COTTAGE GROVE CITY COUNCIL

MARCH 2, 2022

12800 RAVINE PARKWAY SOUTH
COTTAGE GROVE, MINNESOTA 55016

REGULAR MEETING - 7:00 P.M.
COUNCIL CHAMBER

1 CALL TO ORDER

2 PLEDGE OF ALLEGIANCE

3 ROLL CALL

4 OPEN FORUM

5 ADOPTION OF AGENDA

6 PRESENTATIONS

7 CONSENT AGENDA

A City Council Meeting Minutes - February 2, 2022 Regular Meeting

Staff Recommendation: Approve the February 2, 2022 City Council Regular Meeting Minutes.

B City Council Meeting Minutes - February 16, 2022 Regular Meeting

Staff Recommendation: Approve the February 16, 2022 City Council Regular Meeting Minutes.

C Public Service Commissioner Appointment

Staff Recommendation: Appoint Lise Rediske to the Public Services Commission for a two-year term ending 2/29/2024.

D Public Service Commissioner Appointment

Staff Recommendation: Appoint Lisa Kons to the Public Services Commission for a two-year term ending 2/29/2024.

E Response to Open Forum Comments Regarding Former Mississippi Dunes Property

Staff Recommendation: Receive response from City Attorney Land to Open Forum comments at the February 2, 2022 City Council meeting regarding the former Mississippi Dunes Golf Course property.

F Glacial Valley Park Building Design Agreement

Staff Recommendation: Authorize architectural services agreement with Wold Architects and Engineers for design development of the Glacial Valley Park building.

G Military Road Engineering and Traffic Investigation – Speed Limit Authorization

Staff Recommendation: Accept the speed authorization from MnDOT changing the speed of Military Road to 45 MPH from Jamaica Avenue to the cul-de-sac approximately 3,200 feet southeast.

H 2022 City-Wide Sweeping Quotes

Staff Recommendation: Adopt Resolution 2022-028 awarding the 2022 City-Wide Sweeping project to the low quote supplied by Pearson Bros, Inc., for $115.00 per hour.

I Granada Avenue Residential Well Sealing Project - Final Payment

Staff Recommendation: Adopt Resolution 2022-029 approving the final payment to Mineral Services Plus, LLC for the Granada Avenue Residential Well Sealing Project in the amount of $8,207.51.

J General Fund Balance Designations December 31, 2021

Staff Recommendation: Receive Information on the Designated General Fund Balances at December 31, 2021.

K MN DNR Outdoor Recreation Grant Application – Mississippi Dunes Land Acquisition

Staff Recommendation: Adopt Resolution 2022-032 to apply for the MN Department of Natural Resources Outdoor Recreation Grant Program for up to $300,000 to be used for public park and open space land acquisition at Mississippi Dunes.

L Approval of Rental Licenses

Staff Recommendation: Approve the issuance of rental licenses to the properties listed in the attached table.

M Goodview Avenue Water Main Extension Project – Approve Plans and Specifications and Establish a Bid Date

Staff Recommendation: Adopt Resolution 2022-030 approving the plans and specifications and establishing a March 24, 2022 bid date for the Goodview Avenue Water Main Extension Project.

N Low Zone Raw Water Main Project – Approve Plans and Specifications and Establish a Bid Date

Staff Recommendation: Adopt Resolution 2022-031 approving the plans and specifications and establishing a March 24, 2022 bid date for the Low Zone Raw Water Main Project.

O Parkview Pointe Final Streets Improvements – Approve Plans & Specifications and Establish Bid Date

Staff Recommendation: Adopt Resolution 2022-033 approving the plans and specifications and establishing a March 31, 2022, bid date for the Parkview Pointe Final Streets Improvements.

P Cottage Grove Business Park AUAR Update

Staff Recommendation: Approve Resolution 2022-035 adopting the Business Park AUAR Update and Mitigation Plan as the required five-year update to the 2018 AUAR pursuant to Minnesota Rules, part 4410.3610, subpart 7.

8 APPROVE DISBURSEMENTS

A Approve payments for the period of 2/11/2022-2/24/2022 in the amount of $1,713,888.20.

9 PUBLIC HEARINGS

10 BID AWARDS

11 REGULAR AGENDA

A Aggregate Industries – Scoping Environmental Assessment Worksheet

Staff Recommendation: Adopt Resolution 2022-034 authorizing distribution of the Aggregate Industries Scoping Environmental Assessment Worksheet.

12 COUNCIL COMMENTS AND REQUESTS

13 WORKSHOPS - OPEN TO PUBLIC

14 WORKSHOPS - CLOSED TO PUBLIC

15 ADJOURNMENT

City Council Action Request

7A

Meeting Date	3/2/2022
Department	Administration
Agenda Category	Consent Agenda
Title	City Council Meeting Minutes - February 2, 2022 Regular Meeting
Staff Recommendation	Approve the February 2, 2022 City Council Regular Meeting Minutes.
Budget Implication	N/A
Attachments	2022-02-02 Regular Meeting (Draft).tif 19.83MB

MINUTES

COTTAGE GROVE CITY COUNCIL — February 2, 2022

COUNCIL CHAMBER
12800 RAVINE PARKWAY SOUTH

REGULAR MEETING - 7:00 P.M
COUNCIL CHAMBER

1. CALL TO ORDER

The City Council of the City of Cottage Grove, Washington County, Minnesota, held a regular meeting on February 2, 2022, at Cottage Grove City Hall, 12800 Ravine Parkway. Mayor Bailey called the meeting to order at 7:00 p.m.

2. PLEDGE OF ALLEGIANCE

The audience, staff, Mayor, and City Council Members stood and recited the Pledge of Allegiance.

3. ROLL CALL

City Clerk Joe Fischbach called the roll: Mayor Bailey - Here; Council Member Dennis - Here; Council Member Khambata - Here; Council Member Olsen - Here (remotely); Council Member Thiede - Here.

Also present were: Jennifer Levitt, City Administrator; Korine Land, City Attorney-LeVander, Gillen & Miller, PA; Ryan Burfeind, City Engineer/Public Works Director; Joe Fischbach, City Clerk/Human Resources Manager; Pete Koerner, Public Safety Director; Jen Longaecker, Communications Manager; Mike Mrosla, Senior Planner; Robin Roland, Finance Director; Emily Schmitz, Senior Planner.

4. OPEN FORUM

Mayor Bailey opened the Open Forum, and noted there was a three-minute limit for the speakers.

Sharon O'Boyle, 9300 Grey Cloud Trail South, Grey Cloud Island Township, stated she made it through about 89 pages of the EAW and comments; she requested that we have time to review the 371 pages, and that nothing be settled tonight. She also had questions about conflict of interest with members or affiliates as far as who is a realtor, who is not. She asked what the policy is if someone wants to recuse themselves. If this proposal on Mississippi Dunes moves forward, what is the policy, and who would be

sued if something goes wrong? According to the EAW and all of the information that she's read so far from the DNR and all other organizations that responded to the EAW, as well as research that she's done on the floodplain, it's not just nationwide, it's worldwide; there should be no housing developments put on a floodplain or anywhere near a floodplain. Pulte Homes has involved two other companies; she asked if you sue Pulte Homes, the City of Cottage Grove, the other two companies, all three companies, or do you sue the owner? Or, do you file a lawsuit against everybody involved, because they know what is in the EAW? It was requested that an EIS be done. From what the DNR stated, we know that climate change is a fact; we know that there are endangered species on the property, and we know that that property is not suitable for a development, and it will impact climate change in a negative way. We know that. So, if the Council and the City of Cottage Grove move forward on that, knowing that, then at some point there will be accountability. She requested a response on the lawsuit aspect and conflict of interest. If this went forward and you need to remove all of the sand that's there, who's making the money on that sand?

Bonnie Matter, 6649 Inskip Avenue South, stated there's so much she could say, but one thing that really disappointed her was the Consent Agenda; Ms. Matter stated the key word was noncontroversial, as we've spent a number of months talking about the whole Mississippi Dunes project. Now we've gone through an EAW and a 371-page document was put into the Consent Agenda, so she was really disappointed. She asked what that was about.

Mayor Bailey stated he read through the EAW; if there was something controversial or if there was something glaring in the EAW, he's assuming it wouldn't be on the Consent Agenda or staff would make recommendations for additional information.

Ms. Matter asked if each of them had read through that document; Mayor Bailey replied yes, he had, but could only speak for himself. Ms. Matter asked Council Member Dennis, Council Member Khambata, and Council Member Thiede if they had: Council Member Dennis replied he always reads his materials, and read all 371 pages; Council Member Khambata replied our content for tonight's meeting was 985 pages long; Council Member Thiede replied over the many different times that we've seen this information, he has read it. Ms. Matter stated she had a real concern about this; this item should be pulled out, and there should be a discussion with the public about what the findings were.

Ms. Matter stated another thing that's not right is for Council to say they're going to send it to the Planning Commission, who are all volunteers and not responsible, to have them say it's okay. Ms. Matter stated the Consent Agenda gives routine, procedural, informational, self-explanatory, noncontroversial items typically found in an agenda, not a 371-page document that's been discussed for months.

Lisa Mueller, N5001 810th Street, Ellsworth, WI, stated she's been here through the months and has made a number of comments to the group. She has two requests: 1) Pull this item from the Consent Agenda and add it to a regular Council Meeting agenda so there can be proper, open discussion about the 371 pages of comments that were submitted by concerned citizens. It's her sense in having read through only about

half of those comments that there was a great deal of consternation, a great deal of concern, and rightfully so. We've talked about climate change, water quality concerns, soil erodibility, endangered species, and rusty-patched bumblebees; there's an unending list of things that should be considered in terms of developing this property for a very intensively developed housing development. It's her understanding (from a member of one of the consulting firms that was given the task of marking trees for the upcoming project) that they have marked between 6,000-to-8,000 trees, all of which are slated for removal. The property will essentially be razed and bulldozed; that flies in the face of any common sense or any scientific recommendations for keeping vegetation on the ground and leaving some opportunity for habitat and carbon sequestration.
2) She asked if the City Administrator or someone on staff could make the comments available in a PDF format because it's really difficult to read them on the website.

As no one else wished to address the Council, Mayor Bailey closed the Open Forum.

5. ADOPTION OF AGENDA

Motion by Council Member Dennis to adopt the agenda; second by Council Member Thiede. City Clerk Fischbach called the roll: Council Member Khambata - Aye; Council Member Dennis - Aye; Council Member Thiede - Aye; Council Member Olsen - Aye; Mayor Bailey - Aye. Motion carried: 5-0.

6. PRESENTATIONS

A. 2021 Annual Photo Contest Winners
Staff Recommendation: Receive the winners of the 2021 Annual Photo Contest.

Jen Longaecker, Communications Manager, stated she's excited to share the winners of the 2021 City of Cottage Grove Photo Contest. The photo contest has taken place for at least 15 years, maybe longer. People are really excited to share their photos of the City, as we had more than 100 entries this year; it was hard to pick the winners. She announced the winners of the five categories and what each photo contained:

Business: Juli Holm, photo of the Central Fire Station, taken at night;
Events & Celebrations: Jacob Nelson, photo of the Park High School graduation;
People: Stephanie Brown, photo of two children dropping off letters to Santa;
Wildlife & Nature: Ashley Thompson, photo of a hawk;
Parks & Landmarks: Edilene White, photo of a sunset.

Manager Longaecker stated it was really fun to look through all of the great photos submitted and view Cottage Grove through their eyes. Winners Ashley Thompson and Juli Holm were present; they were asked to step forward to receive their plaque and monetary award, were congratulated by the Mayor and Council Members, and photos were taken. Mayor Bailey stated for those winners not present tonight, the plaques and

checks would be delivered. Mayor Bailey stated there were a lot of new names in the winners this year, so that was nice to see; he thanked everyone who participated.

7. CONSENT AGENDA

A. Approve the January 5, 2022 City Council Regular Meeting Minutes.
B. Approve the hiring of Gretchen Larson as Economic Development Director.
C. Accept the proposal and authorize entering into an agreement with Aurora Strategic Advisors for federal lobbying services.
D. Accept and place on file the minutes from the December 20, 2021 Planning Commission meeting.
E. Approve the issuance of rental licenses to the properties listed in the attached table.
F. Adopt Resolution 2022-010 approving the 2022 Mining Permit for Aggregate Industries - Nelson Sand & Gravel Facility.
G. Approve the Employee Referral Program.
H. Adopt Resolution 2022-009 approving the plans and specifications for the 100th Street, 105th Street, and Ideal Avenue improvements.
I. Adopt Resolution 2022-016 authorizing application for the MN Department of Natural Resources No Child Left Inside Grant in the amount of $15,000, to be used towards the upgrades and purchase of outdoor recreational equipment and additional programming.
J. Adopt Resolution 2022-015 approving the former Mississippi Dunes Golf Course EAW Report prepared by SHC, LLC and finding that an Environmental Impact Statement (EIS) is not required for the Mississippi Landing low and medium density residential subdivision.
K. Approve the Income Contract between the City of Cottage Grove and Aggregate Industries for the proposed Mississippi Backwaters Mining Expansion Project.

None of the Council Members wished to pull any items on the Consent Agenda for further comment and/or discussion.

Motion by Council Member Khambata to approve the Consent Agenda; second by Council Member Olsen. City Clerk Fischbach called the roll: Council Member Khambata - Aye; Council Member Dennis - Aye; Council Member Thiede - Aye; Council Member Olsen - Aye; Mayor Bailey - Aye. Motion carried: 5-0.

8. APPROVE DISBURSEMENTS

A. Approve payments for the period of 1/12/2022-1/27/2022 in the amount of $4,566,253.47.

Motion by Council Member Dennis to approve disbursements; second by Council Member Thiede. City Clerk Fischbach called the roll: Council Member Khambata - Aye; Council Member Dennis - Aye; Council Member Thiede - Aye; Council Member Olsen - Aye; Mayor Bailey - Aye. Motion carried: 5-0.

9. PUBLIC HEARINGS

A. Woodward Ponds 3rd Addition
Staff Recommendation: 1) Hold a public hearing and Adopt Resolution 2022-012 vacating two drainage and utility easements over Lot 13, Block 1, and Lot 37, Block 2, Woodward Ponds 2nd Addition. 2) Adopt Resolution 2022-013 approving the preliminary and final plats for Woodward Ponds 3rd Addition, which is a 5.44-acre residential development with 44 residential townhome lots. 3) Approve the Woodward Ponds 3rd Addition Development Agreement with Ravine Parkway, LLC (Donnay Homes), M/I Homes, and the Woodward Ponds Townhome Association. 4) Adopt Resolution 2022-014 approving the Woodward Ponds 3rd Addition Development Plans dated November 30, 2021, prepared by Pioneer Engineering.

Emily Schmitz, Senior Planner, stated the Woodward Ponds development is in the crux of Keats Avenue and the old Military Road, which is now the Historic Military Trail. She gave the history of its 1st and 2nd Additions, and stated the 3rd Addition is because the builder has decided that their slab-on-grade product is far more popular than their product with a basement. They've adjusted some of their property lines, made them a bit longer, to create lots that support the slab-on-grade product. There are no additional lots being proposed as part of the 3rd Addition. The public hearing tonight is for the easement vacation on the common lot as part of the Woodward Ponds 2nd Addition; drainage and utility easements were platted over both of the common lots in the development, so they need to be vacated in order to adjust the lot lines and plat new easements over that. Planner Schmitz stated she'd answer any questions.

Council Member Khambata asked if the change in the footprint for the foundations had a significant effect on the setbacks between the easements and the properties; because they're not going to have basements, they're expanding the footprint, but he didn't see any markers delineating by how many feet. As the footprints are getting larger, he asked if they were shifting the whole pad back, forward, or if they're just increasing the surface area of the foundation itself; it looks like it's getting larger. Planner Schmitz replied they're getting longer and skinnier; existing setbacks are being maintained.

Mayor Bailey opened the public hearing. As no one wished to speak on this item, Mayor Bailey closed the public hearing.

Council Member Dennis made a motion to hold the public hearing and Adopt Resolution 2022-012 vacating two drainage and utility easements over Lot 13, Block 1, and Lot 37,

Block 2, Woodward Ponds 2nd Addition; second by Council Member Thiede. City Clerk Fischbach called the roll: Council Member Khambata - Aye; Council Member Dennis - Aye; Council Member Thiede - Aye; Council Member Olsen - Aye; Mayor Bailey - Aye. Motion carried: 5-0.

Council Member Thiede made a motion to Adopt Resolution 2022-013 approving the preliminary and final plats for Woodward Ponds 3rd Addition, which is a 5.44-acre residential development with 44 residential townhome lots; second by Council Member Dennis. City Clerk Fischbach called the roll: Council Member Khambata - Aye; Council Member Dennis - Aye; Council Member Thiede - Aye; Council Member Olsen - Aye; Mayor Bailey - Aye. Motion carried: 5-0.

Council Member Khambata made a motion to Approve the Woodward Ponds 3rd Addition Development Agreement with Ravine Parkway, LLC (Donnay Homes), M/I Homes, and the Woodward Ponds Townhome Association; second by Council Member Thiede. City Clerk Fischbach called the roll: Council Member Khambata - Aye; Council Member Dennis - Aye; Council Member Thiede - Aye; Council Member Olsen - Aye; Mayor Bailey - Aye. Motion carried: 5-0.

Council Member Thiede made a motion to Adopt Resolution 2022-014 approving the Woodward Ponds 3rd Addition Development Plans dated November 30, 2021, prepared by Pioneer Engineering; second by Council Member Khambata. City Clerk Fischbach called the roll: Council Member Khambata - Aye; Council Member Dennis - Aye; Council Member Thiede - Aye; Council Member Olsen - Aye; Mayor Bailey - Aye. Motion carried: 5-0.

10. BID AWARDS - None.

11. REGULAR AGENDA

A. McHattie Landing - Zoning Amendment and Preliminary Plat
Staff Recommendation: 1) Adopt Ordinance No. 1052 approving the zoning amendment to change the zoning of the property at 9119 and 9165 Military Road from AG-1, Agricultural Preservation, to R-4, Low Density Residential, with a PUD, Planned Unit Development. 2) Adopt Resolution 2022-011 approving the preliminary plat for a residential subdivision to be called McHattie Landing, which will consist of 80 lots for single-family homes and 4 outlots.

Mike Mrosla, Senior Planner, stated Manley Development submitted an application and is requesting to plat 80 residential single-family lots; they're also requesting to rezone the property from AG-1 to R-4, Low Density Residential, with a Planned Unit Development (PUD). The location of this property is at the southeast corner of Military Road and Jamaica Avenue; the property contains an existing homestead and

farmstead, so two single-family lots. It is surrounded to the north by Cardinal Reserve, to the east by Ravine Meadows, to the south by Kingston Fields, and then to the west is Wolterstorff property, which we just received an application for today.

Planner Mrosla gave details on the following: Topography; Density; Preliminary plat; Homeowners' Association (HOA); Setbacks flexibility requested; Access; Sidewalk and Trail Plan; Future trailhead park; Landscaping; Tree removal and mitigation; Landscape buffer, adjacent to Jamaica Avenue; Fencing; Ponds; Neighborhood Meetings.

The public hearing took place at the Planning Commission Meeting on January 24, 2022; one resident of Ravine Meadows asked if the ponds were wet or dry, and Public Works Director Ryan Burfeind answered that question. The commissioners had some questions regarding landscaping, grading, and the HOA; however, the Planning Commission voted unanimously to approve this project and recommended approval to the City Council. Planner Mrosla stated he and the developer would answer questions.

Mayor Bailey asked about the ponds, and asked Director Burfeind to explain that to the Council. Director Burfeind stated there are both wet ponds and dry infiltration ponds; it was made clear for residents that they don't have a water feature behind their house.

Motion by Council Member Khambata to Adopt Ordinance No. 1052 approving the zoning amendment to change the zoning of the property at 9119 and 9165 Military Road from AG-1, Agricultural Preservation, to R-4, Low Density Residential, with a PUD, Planned Unit Development; second by Council Member Dennis. City Clerk Fischbach called the roll: Council Member Khambata - Aye; Council Member Dennis - Aye; Council Member Thiede - Aye; Council Member Olsen - Aye; Mayor Bailey - Aye. Motion carried: 5-0.

Motion by Council Member Thiede to Adopt Resolution 2022-011 approving the preliminary plat for a residential subdivision to be called McHattie Landing, which will consist of 80 lots for single-family homes and 4 outlots; second by Council Member Khambata. City Clerk Fischbach called the roll: Council Member Khambata - Aye; Council Member Dennis - Aye; Council Member Thiede - Aye; Council Member Olsen - Aye; Mayor Bailey - Aye. Motion carried: 5-0.

Mayor Bailey congratulated the developer and asked when they'd be getting started; he replied they hoped to be working by April. He also complimented the City staff as they've been awesome to work with and very responsive; Mayor Bailey stated that was nice to hear, and he welcomed them to Cottage Grove.

12. COUNCIL COMMENTS AND REQUESTS

Council Member Khambata stated all of the information was provided to them by staff, and it was very well articulated. Some of these Council packets get long, but he appreciated all of their hard work.

Council Member Dennis complimented Mayor Bailey on the delivery of his State of the City Address, given earlier tonight. He stated it's really exciting to think about all of the amazing and wonderful things that are happening in our community; this City is vibrant, it's growing, it's alive, and it's a place where people want to come, not just to live or play, but to invest and to do business. Hopefully with all the new companies coming into our Business Park, we'll have places for people who maybe don't want to drive 25 miles to go to work; they can work right here, and that's a nice thought. Council Member Dennis stated he knew Mayor Bailey and the staff put work into that speech, and he thought everybody did a nice job on it.

Council Member Thiede stated people like to come to Cottage Grove for the fantastic Strawberry Festival on the third weekend in June. A festival like that doesn't happen by accident; it takes a lot of quality people to help make it happen, and we'd love to get some more participation. There are still openings on the committee, so if people would love to help us out, that would be fantastic. Contact Council Member Thiede or go to cottagegrovestrawberryfest.com to get more information.

Council Member Olsen expressed his condolences to the family of Samantha (George) Crabtree; she serves on our Parks and Recreation Commission and has also worked very hard on several other projects through the course of her time serving the City, including the Inclusive Playground. Unfortunately, Samantha recently lost her dad, and her dad was a very young age. He knows she, and her family, are going through a difficult time right now, so he just asked that all members of the Council, City staff, and residents at home take a minute to keep the George family in their thoughts and prayers as they go through this difficult time.

Mayor Bailey made the public aware that former Cottage Grove Mayor Jack Denzer had passed away; he had served on the City Council from 1978 to 1991, was Mayor from 1992 to 2000, and also a local business owner of Jack's Union 76, a gas station at Belden Boulevard and Hadley Avenue. Mayor Bailey stated Jack was very active, as he was on the Cottage Grove Snowmobile Club and got trails designated within the community. He was always willing to give back to his hometown. Our thoughts and prayers are with the Denzer family; the wake will be tomorrow evening at KOK Funeral Home here in Cottage Grove, and the funeral will be at St. Thomas Aquinas Church on Friday. Mayor Bailey stated unfortunately Jack passed away in the hospital from pneumonia, due to COVID, so our prayers and thoughts are with Jack's family. We definitely know there's somebody up there looking down at us, who's supporting the future of Cottage Grove in a big way because he was a big part of it. He thanked Jack for all his years of service to the Cottage Grove community.

Mayor Bailey thanked Council Member Dennis for his comments about the State of the City Address; though it takes a lot of time and it's a lot of work, it's actually fun to pull all of it together to look at what we've done as a City over the last year and years prior. We also look forward to what we're going to be doing in the near future. He stated

Manager Longaecker hasn't been with us very long, but she did an amazing job working with him for the State of the City speech; he thanked her for all of her support.

Mayor Bailey stated there were conversations during Open Forum tonight regarding the EAW with the former Mississippi Dunes Golf Course. He stated that document is available for anyone who wants to read it; there was a lot of information in there, and he knew the Council Members had read it. He wanted the public to be aware often there's information out there, and if statements are made to us as a Council, or in the public, and it's a person's opinion, please listen to us; it's a lot to read, but you need to read it yourself. You will realize that many comments made this evening were inaccurate; the issues had been resolved, or it even wasn't going to happen. It's a very detailed report and everybody had been able to comment on it; that's why it was on our Consent Agenda tonight. If there had been anything controversial, like an endangered species, it would have never been put on the Consent Agenda. Everything was straightforward, it was very basic; all of the answers were there, but it might not have been what the public wanted to hear. It is a developable site; there are no issues there that need to be addressed because of endangered species, etc. He wanted the public to be aware of that so they don't think we're just pushing something through, because that is not how this Council does things. We're very diligent on making sure that we cover all of the bases and make sure that we do it right. To those who spoke in Open Forum tonight, our staff will provide feedback about questions that were asked to make sure they have the information they're looking for.

Mayor Bailey stated tonight's workshop session is open to the public, but it will take place in our Conference Room; Council Member Olsen will be joining us remotely in the Conference Room. It's a workshop to discuss Cedarhurst Redevelopment and give feedback to the developer before they begin their plans.

13. WORKSHOPS - OPEN TO PUBLIC

A. Cedarhurst Redevelopment Workshop

Mayor Bailey asked attendees to introduce themselves: Emily Schmitz, Planner; Jennifer Levitt, City Administrator; Kori Land, City Attorney; Steve Dennis, City Council/Vice President Economic Development Authority; Myron Bailey, Mayor; Tony Khambata, City Council; Dave Thiede, City Council; Pete Koerner, Director of Public Safety; Joe Fischbach, HR Manager/City Clerk; Ryan Burfeind, Public Works Director/City Engineer; Mike Mrosla, Planner; Mike Hanson, Three Sixty Realty; Jeremy Novak, Three Sixty Realty. *Remote Attendees*: Justin Olsen, Council Member; Meghan Elliott, New History; Christine Pecard, Architect/Partner, ESG; John Benz, concerned citizen; Katie, concerned citizen.

Planner Schmitz gave an overview of everything they've been working on to date; she noted many professionals have been willing and able to help us along the way to understand what it means to have a property in our community that's on the National

Registry. Staff wants to be very clear as we navigate through this proposed development what the City's role is in that process. In addition to Meghan and Christine, we've also had conversations with the State Historic Preservation Office (SHPO) so we can understand what their goal is in potential redevelopment of a site like the Cedarhurst Mansion. We want to know what the City can regulate as part of this redevelopment process with our Advisory Commission on Historic Preservation (ACHP); we want their review and approval of the processes. With this redevelopment process, an update to the Alternative Urban Areawide Review (AUAR) would be required, as the Master Plan shows this as only commercial; we need to update that to match our 2040 Comprehensive Plan, which shows this site as Mixed Use.

Planner Schmitz stated we've been speaking extensively about the City's goals for this site: We want to preserve the mansion; we want the mansion to be a place that is open to the public. We do not know yet what way, shape, of form that will be, but we know that that's important to the City Council and to staff. We also want to maintain a buffer, making sure that the mansion is the focal point of the site with the great lawn there. The public right-of-way to the mansion has been hidden for a lot of years, so we're hoping to make that a bit more visible. She stated Meghan and Christine could speak more about the details, but she'd give an overview of what staff has been doing.

Planner Schmitz presented the most recent site plan, which meets our Comprehensive Plan; it is Mixed Use, but we also want to make sure that it's meeting our Code standards. Things will change with this image; specifically, we have concerns about parking, making sure that there is enough for the proposed residential and retail uses that might come with this Mixed Use development. Some of the parking spots and drive lanes are getting a little bit close to the mansion, so we want to take a deeper look at that. Another item is the access onto 70th Street; Director Burfeind has been working with Washington County on that to essentially flip it. Military Road is now a trail, so we're flipping it to have the full access at what is right now the Historic Military Trail; we'll convert that back to an access to this particular site, and then will limit the access off of 70th Street. So, that will potentially adjust the site plan shown, but she felt it important to have a visual rendering available.

Planner Schmitz stated Meghan, with New History, created a table of Historic Preservation Protection, and asked her to speak about that.

Meghan stated this table is a way of condensing historic preservation, the tools we have to protect any history on site, and the five forms we have to apply; some of them apply to Cedarhurst, some do not. Two that apply to Cedarhurst are Local Landmark and National Register of Historic Places; State Register does not apply, Preservation Easement is a tool we could consider for this site, and Historic Tax Credit Certification would certainly be at the owner's discretion.

Local Landmark: Cedarhurst has been designated as a Local Landmark; the community has decided this site, and its history, are important for what it means to Cottage Grove. You have a Preservation Ordinance, which basically says that your ACHP has the authority to make recommendations to the City Council. If alterations are planned to the

Local Landmark, the ACHP's role is to review those alterations or proposed plans and make recommendations for the City Council to consider; the City Council makes the decision. In terms of design requirements with Local Landmarks, in your Preservation Ordinance it says that you will apply the Secretary of the Interior's (SOTI's) Standards when you review these designs. The SOTI's Standards are guidelines for how we treat historic sites; those recommendations get applied to try to maintain as much historic character as possible at Cedarhurst. Cities take the SOTI's Standards and create specific guidelines for how to interpret those on a site; it's a tool for evaluating proposed design changes to a historic site. Your Preservation Ordinance specifically mentions the SOTI's Standards.
National Register of Historic Places: The National Register is a completely separate system; it's not related to your Preservation Ordinance, and the City of Cottage Grove doesn't have jurisdiction over it. It is an honorary listing that's mandated or facilitated by the Federal government through the National Park Service. The National Register is there as an honor, as a way of cataloging and documenting sites that are important to American History. National Register designation is also pursued to open up opportunities to access financial incentives: Historic Tax Credits (typically used by private owners) and grants. Minnesota is lucky to have a strong grant program that is open to government units like cities, as well as non-profit owners. There are no requirements, restrictions, or downsides for being listed in the National Register. In theory, anything can happen on a National Register site, including demolition, because there is no governing oversight unless someone is using Federal money; simply being in the National Register has no strings attached.

Planner Schmitz asked for some dialogue and/or direction on the following: Important historic components of the site that should be preserved; potential development and design standards; and the proposed site plan, specifically if they're okay with removing some structures currently present on the site.
A lengthy discussion of the following topics followed:
Housing TIF District Council Member Khambata asked if the developer will be using TIF funds for this project.

Mayor Bailey replied there might be some different tax credits out there; he asked for Council's thoughts on that option, noting there are very specific requirements with that. He didn't think they'd use that, but felt they might possibly use Historic Tax Credits.

Council Member Dennis stated regarding TIF, this is a private-sector business; while we've used TIF over the years, he's not a big proponent of it; he agrees with Mayor Bailey and doesn't feel that's the right use for this. There are other tax credits, etc. they can get (through the Federal or State government, etc.) that they could do on their own to provide some financing. Looking at stipulations of the TIF, one thing to support that process is the need to have some public transportation connectivity; we currently don't have that, and he doesn't know of anything planned for that area. This is like trying to put a square peg into a round hole, and it doesn't fit. Comments he heard from a number of residents there were they were resigned that something was going to happen, but asked that it be something that would fit into scope of the neighborhoods in

the surrounding area. He didn't think that providing the TIF, not having other resources, and really not having it fit the theme would be the best way to go.

Council Member Thiede also agreed that this probably doesn't lend itself to a TIF development.

Historic Tax Credits Council Member Khambata asked if the City were to provide any sort of assistance, if that would buy us strings to guide how the site gets developed and to what extent the mansion is going to be preserved?

Planner Schmitz replied it wouldn't provide any additional strings that we don't already have with the Historic Preservation Ordinance and our Local Landmark status; those give us the ability to work through maybe some more specific design or development guidelines that might be specific to this site. She asked if we're interested in doing some additional research on the site to better understand the historical component; when it comes to strings, we have those.

Council Member Olsen stated the developer mentioned on several occasions that they'd like to take advantage of the Historic Tax Credits. If that's their intent, Meghan had said that would most likely result in pretty deep research of the site, its occupants, etc. Hearing that our historic places designation reasons are pretty thin surprised him. The State of Minnesota and the Washington County Historical Society have much information on Cedarhurst, and there have been several books published about the site. He gave some historical facts of which he was aware, including Severance was the President of the American Bar Association when he lived there. Additions to the property were designed and implemented by a famous architect, Cass Gilbert, who also designed the State Capitol. It just feels like there's a lot of depth to the history of this site that we haven't found yet, but he thought we needed to do that; it's a smart thing to do simply because if and when the owner does the Historic Tax Credit process, that's a requirement anyway; he asked if that was correct.

Meghan replied there's a lot of information about this site out there, from various historical societies, newspapers, aerial photos from different decades; however, that hasn't yet been integrated into the National Register information. So, if your ACHP is looking at this site, they have very little information on which to base their design review. Likewise, if the developer decides to pursue Historic Tax Credits, the SHPO and the National Park Service also have very little information upon which to base their design decisions. So, for any of us engaging in this site's design perspective, ACHP, City Council, or the National Park Service, more information would be really helpful to understand what the historic character of the site is; that information is out there, it just hasn't really been collated into an official document, like a National Register update. If one was to pursue Historic Tax Credits, she needed to be clear that they only apply to the mansion; they don't apply to any of the new construction, but it would apply to work done on the historic building.

SOTI Standards Council Member Khambata asked if the SOTI Standards were easily accessible, to view current guidelines to see if we agree with them.

Meghan replied yes, Google search Secretary of the Interior's Standards; they're on the National Park Service website. There are four sets of standards that apply to historic properties: Preservation, Rehabilitation, Restoration, and Reconstruction. She felt the Rehabilitation Standards would apply to Cedarhurst; they're very general, so

how we apply those standards to a site has a wide spectrum of interpretation. The Standards tell us new construction should be compatible with and differentiated from the historic construction.

Compatible and Differentiated Construction Mayor Bailey asked if there were visual aids available to show a historic building that's being preserved or refurbished with differentiated construction around it.

Meghan replied they can get compatible and differentiated information as a guide. With Cedarhurst, we don't want to build new buildings that look like they were from the early 20th century or late 19th century when this country estate was originally constructed. We don't want someone visiting the site to not be able to tell what's historic and what's new; they should understand that the original mansion is the historic piece of the site, and all of the construction around it is new. We don't want it to look historic, so that's how it would be differentiated. With compatible, the Park Service is trying to lead us to look for construction that fits the site. This country estate has wood siding, classical detail, a gabled roof; some of those are architectural elements that you might want to pull into the new design. A skyscraper on this site wouldn't be compatible with a country estate; it also doesn't meet your zoning code. You should probably look for wood materials that feel more comfortable with a country estate and its landscaping,

Council Member Thiede felt all the new-looking construction drowned out the mansion. Maybe the apartments should look like they're older, like a brownstone; maybe the townhouses should look like older row houses. Is that what we want to do?

Meghan replied that's what the National Park Service would guide us toward; they would provide guidance to tell us that we don't want to create a false sense of history. We don't want someone to look at the site and say the townhomes were built at the same time as the mansion. They want people to understand the mansion is from the early 20th century, and the townhomes are from the 21st century. Council Member Thiede stated that didn't make sense to him.

Council Member Khambata asked for an example of differentiation around the Twin Cities; he's trying to visual that in real life. He mentioned Fort Snelling, where you feel like you've stepped into a historical setting.

Meghan replied most projects that are using Historic Tax Credits are following the Standards. Fort Snelling is a restoration project; they're actually preserving what's there with the intent to make you feel like you're walking back in time. The new construction at Fort Snelling, the Visitor Center, has been inserted into a historic building; when you walk into it, some new elements and new landscaping have been added so you'll be able to see that is not from the 18th century.

Mayor Bailey stated the courthouse in St. Peter, Minnesota built an addition, and you can definitely tell the difference; is that what you're saying? We'd have the mansion as the center point of this, then we'd maybe have not the same century but we'd have colors or maybe some themes that resonate through the rest of the development. Meghan replied that's exactly what she meant.

National Register Update Administrator Levitt asked Meghan to touch on what doing an update to the National Register would gain for us; any value related to the Historic Tax Credit and if it'd qualify; and SHPO.

Meghan stated we should get more information about this site because Cottage Grove has one of the earliest National Register applications that she's ever seen. She gave the history of the National Register program. The level of information to meet expectations by the National Park Service, and SHPO's State historians, is substantially higher. The Cedarhurst National Register nomination is very short. It is pretty thin in terms of why it's historic, as it says it's historic and important because of its architectural design and because of the owner, an attorney who practiced in St. Paul. It gives very few details about what constitutes the character of the site; it mentions a mansion and the grounds, but usually we expect a nomination to tell us what about that site creates and informs its historic character. As they're making decisions of how to review and deny applications, what they're evaluating is if this design impacts the historical character of the site. It's difficult right now to determine whether the proposed plan impacts the historic character because we don't really have a good understanding of why it's important or what is its historic character; all we know is there was a mansion there and it's an old mansion. The purpose of augmenting the history and our understanding of the site can be done as a formal update to the National Register; it can also be done just as a group of people who want to understand the history. We want to be able to leverage the history to the design decisions we're making; leveraging the history means what about the historic character is important in Cottage Grove. Is it the mansion, the landscaping, or where the mansion is located within the overall site? It's set in a very specific place and has a very specific relationship to the roads around it; so, is that important to keep? Planner Schmitz mentioned the idea of a berm around the building; does that matter? If there were buildings built up tight to the building before, maybe it's okay to go up close; she's just giving examples of how this site has been used over time, in forms to restore historic character and how you think about retaining that historic character. Right now it's really hard to give good direction to you or your ACHP or to the developer when there's not a lot of information about why this site is historic and what has changed over time. We have some old photographs, we have some aerial maps, but there's probably a lot more information that we could gather that would help us understand the history, particularly the architectural history of the site. The reason to do the update or to gather more information would be to inform design decisions. If you want to pursue Historic Tax Credits, that means research; it's going to be expected that you give them more robust information about the history of the site. Another reason to do a formal National Register update is if we do research for you, we as a group all benefit because we get a better understanding of its history. If we do a formal update, it goes through a review process by one of our State's historians, who would review it and give feedback; ultimately, it would be reviewed by the National Register historian. We'll get the information and it will be signed off at both the State and Federal level; you'll then have an official history of the site. She would encourage understanding more history of the site to inform design decisions. Historic Tax Credits are available to the site because this building is listed in the National Register, but whether the owner pursues that is at the owner's discretion. If they decide to pursue that tool, they'd be going through a relatively robust application process; their design would be reviewed by the SHPO and the National Park Service. In exchange for

that review process, they can access tax credits. Right now we have Federal tax credits and we're working really hard to have our State tax credit program renewed.

Listening to the Community Council Member Dennis noted for the record that he believes that we've done a good faith effort to listen to the community relative to the design and outcome of this project. Numerous meetings were held with much discussion, especially for those people who reached out to the Council directly to discuss this.

Design Elements Council Member Dennis stated we were successful in turning the orientation of many of these buildings and structures from being north-south to east-west. That reduced the sight line footprint when looking from west to east; that was something that was told to him as being very important by a number of constituents. There are some thoughtful design elements in this. He's not an architect, artist, or designer, but looking at how the buildings are angled to create a sight line so you can actually see into and see the focal point, the mansion itself, was good.

Council Member Thiede stated the housing development looks nice; he also noticed the angles. They're a little bit tall, and he thinks they're a little bit boring, as everything is the same. If he was somebody that didn't know that historic Cedarhurst was there, he'd drive right by it. He might change his mind if he had some street-level views of it, but otherwise he'd almost miss it. He stated when we were first looking at this, he envisioned something much quainter, as Cedarhurst probably had parties and had dignitaries there; they had a ballroom, so it was a community where people came together. Council Member Olsen mentioned something about having more quaint shops. You can still have residences there, but you have something that looks almost like an old downtown that could suggest that people get together. You'd probably see festivals in the grand lawn in front with maybe a gazebo out there, to have a little band; you'd have the community getting together. In terms of the townhomes behind, maybe a bit more variety on the front of them. He likes the fact that they got the front becoming a meeting area for people that live right across from each other, thought it might be a little tight between the buildings but he couldn't really tell. People should be able to go out and talk to their neighbors and have places where they sit down and converse. Right now, none of that comes out to him, so it doesn't really excite him too much. If we want to put up some housing here, we should have a little community center.

Council Member Khambata likes the big lawn out front; if you're driving by and you see the grand lawn, the façade, you'll see that there's a big mansion there. He liked that they're trying to plan to make it the focal point of the site.

Mayor Bailey stated he appreciated the fact that they turned the townhomes, with the single-family homes on the back side, as it took away the parking. He loved what they did with the buildings, where they cut off the ends to see the visual. He concurred with tree preservation along the property line. He loves what they did with the open lawn in the front, and the visual into the mansion looks great with the sidewalks down both sides.

Guard Shack Council Member Dennis remembered discussing with individuals from Three Sixty a guard shack that was out front; that has now been put back up on top of the mansion, on top of the elevator tower. He felt it was nice to keep that historical

perspective with it. He hoped they'd still come up with gates and wording; he knew that was important to a gentleman who had done a previous presentation for us.

Mayor Bailey loved the idea that they're putting the guard shack back on top of the mansion.

Screening Council Member Dennis stated he saw the parking was moved and is going to be right next to the cul-de-sac, where some of the people were living. We've talked about opportunities to have some berms and screening that would help to alleviate some noise and from seeing flashing headlights coming through at night on the north entrance into the facility. He felt we'd taken some pretty good steps forward. He gave credit to the residents who had asked if some of those things could be done.

Council Member Olsen stated we can't sacrifice the trees that are a buffer between the residential homes and the proposed development; those trees are critical. In terms of the residents with whom we visited in that neighborhood, sight lines and unsightliness is something that they're really concerned about.

Mayor Bailey concurred with tree preservation along the property line. Regarding the property line, the one that he wants to really screen well is if we're taking this portion of Military Road and creating it into a new parking area for the homes, there has to be some type of good screening, berming, shrubbery, bushes, or trees because as people are coming around to go into the parking lot at night, it's going to be flashing headlights into a couple of those homes that are in the cul-de-sac on the upper area. He just wants to make sure that we look at the screening, as that's important.

Property Improvements Council Member Dennis recalled the original pitch from Three Sixty, where they'd talked about how to generate money in order to fix up the property. He specifically remembered they talked about building this in phases: First, building townhomes, then maybe apartments; they could then use some of that capital as working money to take care of the mansion, to bring that back to a state that would be positive and respectful for the history of that building.

Outbuildings Council Member Dennis said there's a question of what to do with some of the outbuildings. When we took a tour there, we took a look at many of those buildings; roofs were caving in, boards were rotted out, and things were leaning. He doesn't think there's something there that's salvageable. If he was investing in that property, he'd tear down the barn and the other outbuildings.

Council Member Olsen stated the other structures aren't nearly as important; they're old and have a little bit of significance with respect to the entire property. Those could be sacrificed if it meant preservation of the mansion.

Council Member Thiede's not that all concerned about the barn and the outbuildings; in terms of the other old house, he doesn't see much significance there.

Mayor Bailey stated when we took the tour, a member from Three Sixty made a comment about the rest of the outbuildings; the only real building that maybe was salvageable to some degree was the old horse barn. That's out back, towards the homes. As he looked at the site, they were talking about maybe putting that in the front of the mansion and that would be a place for a band or whatever; again, he thought if we did that, it would take away the look of that openness going into the mansion.

Colors Council Member Dennis stated he felt we're moving in a positive direction with the delineation and the colors, and he knows this is a preliminary design; he's sure the

colors of the buildings might change as we go through the time period, maybe to something that has a little bit softer color, instead of the white or eggshell on the larger structures, to help those blend in better with the surrounding area.

Parking/Cedarhurst Future Use Council Member Olsen stated Planner Schmitz mentioned parking was a concern, so he asked what specifically should be changed.

Planner Schmitz replied first we'd have to understand the exact unit count that they're proposing; we're not at that stage yet, but looking at the site, she felt part of that would require maybe bringing both of those apartment buildings down a story. The way our City Code is written, units in turn require parking stalls; so, there is going to have some evaluation done with that.

Council Member Olsen stated he'd absolutely support that, as it made a lot of sense to him. He stressed that the mansion is the heartbeat of this site, so we need to be very diligent about preserving that structure. The combination of bringing things down a story and maintaining those trees would be a win-win, so he'd certainly support that.

Council Member Khambata asked if Three Sixty has been able to articulate how Cedarhurst will be utilized once this site is fully developed; if it's going to be an event center, we're short on parking. If we're talking about something where it gets utilized as a public space, he's seeing something like 20 parking spots dedicated to that type of activity; in his mind, that's lacking, just thinking about neighborhood park usage. He's having trouble envisioning the interior of the mansion; are they going to make it a commercial retail space, an event center, or a community center where anyone can just come and go. The intended end use is what's going to drive what ancillary parking amenities and traffic control are needed. Without knowing that component, which is a big question mark for them, how do you monetize it? If this is a commercial space, you're going to have an increased traffic rate than an event center where you have people coming in, staying, and then leaving. If there are retails shops there, you'll have a higher rate of consumer traffic. His main concern is traffic routing in and out of the site. He wondered what they ultimately envisioned the best use of this restored building.

Administrator Levitt replied that's the exact challenge that our team is having, not knowing the actual use of the mansion. It could be a bed and breakfast, it could be a high-end restaurant, or it could be an event center. Without knowing that, we don't know how to plan. Right now, they have retail on the first floor of the apartments; so, when you look at trying to park for retail, on top of that, that's what we're really struggling with. Obviously, they'd have to have underground parking, but they still might not be able to hit the entire parking count that we have for the units with underground, so they'd need surface. So, with our napkin sketch of parking, we can't figure out how it works until we can define uses.

Council Member Khambata stated in terms of parking, he asked what the Code requirement is for apartment buildings; if it's two spots per unit. Planner Schmitz replied yes, plus an additional 1.5 spaces per 10 units.

Council Member Khambata stated human nature also becomes a factor; even though they have underground parking, are they going to consume the open spots that are meant for retail. Administrator Levitt stated their experience is they can't park the

entire apartment building in the underground parking, so they'll need the surface. That's why we're saying we believe that they're short.

Council Member Thiede stated we may have to revisit the parking because it seems like we're always wrestling with that. There have been places that have started to revisit that issue and whether you really need that much parking; how often does it really get filled up.

Council Member Khambata stated if we're talking retail, there's a different parking standard than if it's an event space. So, without knowing what the end use is, that's really hard to quantify accurately the parking need to give a final conceptual design on the site. He sees that as a main struggle, but it's pinning down what they're going to guide the use for; once they commit to what the end use is and what will make money with this development, then we can develop parking around that. He asked if they'd be open to adding in a contingency to whatever the zoning standard is, as we don't know what the market will drive the end use to be.

Mayor Bailey stated regarding the parking, they're looking at underground parking; he agrees that we're going to have to figure out what their plan is for the mansion and we have to figure out the parking component. He agrees with Council Member Thiede that sometimes we have these overly large amounts of asphalt. Once they kind of hone in on all of their pieces of this puzzle, he wanted us to be somewhat careful with the parking; it's a definite need, but we have to be careful that we don't overkill it. He doesn't want to give up the green space in front of the mansion for more asphalt; if it means that we're going to keep some of that, but we might lose some parking spaces, he'd be okay with that. We have to understand the parking; if changes are needed, we'll work with that to make it right.

Council Member Dennis stated when we think about the parking and having retail parking, we want to make sure that they have enough space for the consumers. You've got vacancies, so that's one of the things that you have to balance. Do we want to be more focused on retail or more focused on the residential side? As the picture gets closer, those are things that we need to focus on together; we really need to pay close attention to parking. Being in the retail business, if stores don't have spaces for their customers to park, they tend to not be there very long. He knows they're probably thinking about that, but it's important that residential and retail are considered equally.

End Users Council Member Olsen knew there'd been some conversation with the developer regarding the type of end users that they might want to solicit to the site. He thinks some of that is specific to the site's culture itself; he doesn't think there should be a nail salon or a dry cleaner there. It seems there should be some specialties, maybe some more independently owned, main street, downtown businesses that would complement that site in order to make it the special place that we all think it is. He highly encouraged, as we're talking with the developer, that we make that part of the conversation.

Preservation Easement Council Member Olsen stated one thing that he doesn't understand, as far as the historic designation site, is preservation easement; we didn't talk much about that, but it feels like that's something that helps protect demolition and also gives us some increased control over design changes. He asked if he misunderstood that and asked for some additional insight.

Meghan explained a Preservation Easement: She stated the City has a lot of tools within the Local Landmark status; you have the authority to remove comments on the design of both the new construction, as well as the mansion preservation, with your Local Landmark status through your Preservation Ordinance and your ACHP. A Preservation Easement is something that is actually in the discretion of the owner; it's basically a tax benefit when it's used. Preservation Easements are often used when the Federal government is still on the property; the easement is basically that the private owner gifts the façade and sometimes some interior items, like murals, to a nonprofit owner. Then the nonprofit owner technically owns those portions of the site; in exchange, the private owner gets a Federal tax benefit. So, if Three Sixty wanted to create an easement for the site, they could donate the façade to any nonprofit, and they're not going to change the mansion in any way; in exchange, there's a Federal tax benefit with that. Her suggestion is that the City has a lot of ways to act with the design through the Local Landmark, so probably doesn't need a Preservation Easement in addition; the owners might want to look at it and think about it from a tax perspective.
Gardens Mayor Bailey noted a challenge to work on with the developer is there is a lot of underbrush, buckthorn, etc. If we preserve those trees, the reality is that it's going to be wide open underneath; he didn't know if we could do something from a berming standpoint or bushes or trees on the underside so that there won't be the gap that's going to flow through to the homeowners. The other thing he'd mention is it would be nice to see if they could keep or refurbish what was the rose garden to the south. There are the pillars or the walkway back there, with a fountain; the fountains weren't working, but there were lights on the ends. If we're going to have this great lawn in the front, and it looks like it would be salvageable to some extent on the overhead picture, he'd be happy to see that being maintained and refurbished. If you're walking this site, it looked like they had a lot of garden parties out there; weddings used to be out there years ago. It's got that feel, and it keeps that feel with the mansion when you're out there, so from a grounds perspective, that's something he would look to see.

Mayor Bailey asked if Council had any other questions or feedback to share with Three Sixty or staff.

Council Member Khambata stated with the previous open house and some of the concepts they'd brought up then, he felt this really brought the best elements together; screening the single-family homes with the townhomes, they way they oriented those, the way they've left the mansion, the lawn. He's okay with the buildings being that tall, but was a little unnerved with a main floor commercial garage and then the four stories above it. He felt Grove 80 was well executed, so if they do something like that here, it will also be complementary while offering differentiation between the old and the new. Overall, he likes it. His main concern is making sure that we've allocated enough parking. The last thing we want is to create a space that is a really nice amenity that no one can get to.

Mayor Bailey stated tonight during our Council Meeting there was a discussion that at the west end of Military Road there's going to be a little park or an area with an interpretative area. He assumed we'd want to plan for something on the south end, a

similar idea, but felt having some of the history of the mansion as part of that would be a great idea. Since Three Sixty bought this building, we've found out some additional information that's pretty amazing, which he never knew. He felt the general public would find that information interesting; to understand Military Road, how that connected to the mansion, who's been at the mansion, what it's been used for, and what got created at the mansion. He felt as we're looking at Military Road on both ends, it would be nice to have that connection piece as it relates to Cedarhurst.

Administrator Levitt stated that's actually their intention; they're working with New History, ESG, and Parks and Recreation Director Zak Dockter and his team to figure out the historic elements and how the park can be designed with a lot of historic information. We can then go after grants for the park development and those features.

Council Member Olsen stated he appreciated all of the information; it was very helpful and he largely agreed with their comments on our behalf.

Mayor Bailey thanked the staff and Three Sixty for putting this workshop together and thanked the citizens who were listening. He stated he's looking forward to seeing the final product that comes before the Planning Commission and the Council.

14. WORKSHOPS – CLOSED TO PUBLIC - None.

15. ADJOURNMENT

Motion by Council Member Dennis, second by Council Member Khambata, to adjourn the meeting at 9:10 p.m. City Clerk Fischbach called the roll: Council Member Khambata - Aye; Council Member Dennis - Aye; Council Member Thiede - Aye; Council Member Olsen - Aye; Mayor Bailey - Aye. Motion carried: 5-0.

Minutes prepared by Judy Graf and reviewed by Joe Fischbach, HR Manager/City Clerk.

City Council Action Request

7B

Meeting Date	3/2/2022
Department	Administration
Agenda Category	Consent Agenda
Title	City Council Meeting Minutes - February 16, 2022 Regular Meeting
Staff Recommendation	Approve the February 16, 2022 City Council Regular Meeting Minutes.
Budget Implication	N/A
Attachments	2022-02-16 Regular Meeting (Draft).tif 10.72MB

MINUTES

COTTAGE GROVE CITY COUNCIL — February 16, 2022

COUNCIL CHAMBER
12800 RAVINE PARKWAY SOUTH

REGULAR MEETING - 7:00 P.M
COUNCIL CHAMBER

1. CALL TO ORDER

The City Council of the City of Cottage Grove, Washington County, Minnesota, held a regular meeting on February 16, 2022, at Cottage Grove City Hall, 12800 Ravine Parkway. Mayor Bailey called the meeting to order at 7:00 p.m.

2. PLEDGE OF ALLEGIANCE

The audience, staff, Mayor, and City Council Members stood and recited the Pledge of Allegiance. Troop 777 was present in the Chambers and started the Pledge.

3. ROLL CALL

City Clerk Joe Fischbach called the roll: Mayor Bailey - Here; Council Member Dennis - Here; Council Member Khambata - Here; Council Member Olsen - Here; Council Member Thiede - Here.

Also present were: Jennifer Levitt, City Administrator; Korine Land, City Attorney-LeVander, Gillen & Miller, PA; Ryan Burfeind, City Engineer/Public Works Director; Gretchen Carlson, Director of Economic Development; Christine Costello, Director of Community Development; Joe Fischbach, City Clerk/Human Resources Manager; Pete Koerner, Public Safety Director; Robin Roland, Finance Director; Emily Schmitz, Senior Planner.

4. OPEN FORUM

Mayor Bailey opened the Open Forum. As no one wished to address the Council, Mayor Bailey closed the Open Forum.

5. ADOPTION OF AGENDA

Motion by Council Member Dennis to adopt the agenda; second by Council Member Thiede. Motion carried: 5-0.

6. PRESENTATIONS - None.

7. CONSENT AGENDA

A. Approve the January 19, 2022 City Council Special Meeting Minutes.
B. Approve the January 19, 2022 City Council Regular Meeting Minutes.
C. Adopt Resolution 2022-017 authorizing application for the MN Department of Natural Resources Natural and Scenic Area Grant Program for an amount not to exceed $500,000 to be used for land acquisition at the future Mississippi Dunes Park.
D. Authorize entering into an agreement with Judith Graf for transcription services for 2022.
E. Authorize issuance of a retail tobacco sales license to Giza Inc. DBA Moon Soon Tobacco at 7584 80th Street South.
F. Authorize issuance of a retail tobacco sales license to TD Retail Group, LLC DBA High North Dispensary at 8455 East Point Douglas Road South.
G. Authorize the Cottage Grove Department of Public Safety to submit a letter of intent to the Minnesota Department of Health to pursue a Heart Safe City designation.
H. Authorize the Cottage Grove Department of Public Safety to increase the budget amount in the EMS budget to purchase video laryngoscopes from $25,000 to $34,293 for 2022.
I. Adopt Resolution 2022-023 approving the final payment to Ryan Contracting Company for the 80th Street South Street Improvements Project in the amount of $46,560.77.
J. Adopt Resolution 2022-020 approving a site plan review for a 210 square-foot building to be used to house fire suppression equipment on the Flint Hills/Minnesota Pipeline property located at 6485 85th Street South.
K. Reappoint Commissioners as detailed in the attached memo.
L. Adopt Resolution 2022-024 approving the final payment to GMH Asphalt Co. in the amount of $83,737.13 for the West Point Douglas Road Street Improvements Project.
M. 1) Adopt Resolution 2022-021 approving the final plat for Glacial Valley Estates 2nd Addition, which is a 9.58-acre residential development with 76 residential townhome lots, 10 outlots, and 2 common lots. 2) Approve the Glacial Valley Estates 2nd Addition Development Agreement with Military Keats, LLC (Donnay Homes). 3) Adopt Resolution 2022-022 approving the Glacial Valley Estates 2nd Addition Development Plans dated November 30, 2021, prepared by Pioneer Engineering.
N. Authorize the Mayor and City Clerk to sign the Land Surveyor’s Certificate of Plat Corrections for Glacial Valley Estates.
O. Approve the issuance of rental licenses to the properties listed in the attached table.

P. Approve the attached easement agreements with WAG Farms, Inc. et. al., the Cottage Grove Economic Development Authority, and Belijah, LLC.
Q. Approve the 'First Amendment to Right of Entry' extending the City's agreement with WAG Farms Trust to enter Lot 1, Block 1, of Glengrove Industrial Park 9th Addition to August 19, 2022.
R. Adopt Resolution 2022-019 approving a conditional use permit to allow Van Meter Inc. to construct a 10-foot-tall, black, vinyl-coated, chain-link fence with an opaque fabric to assist in screening and securing the existing semi-trailers, storage, and loading dock area at their property located at 7450 95th Street South.
S. Appoint Emily Stephens to her first term on the Planning Commission, ending on February 28, 2025.

Council Member Dennis wished to pull Item K, Commissioner Reappointments, on the Consent Agenda; Council Member Thiede also wished to pull Item K as well as Item S, Planning Commission Appointment, for further comment and/or discussion.

Council Member Dennis stated at our last meeting there were comments shared by members of the public regarding what our commission members do. We are very fortunate as a community to have a number of people who really care about our City, so much so that they donate their time and energy just to make a difference. These are dedicated people who review packets, some very lengthy, to become informed and make great choices on behalf of our community. At our last meeting it was implied that perhaps some members are not necessarily doing that. He's been here for many years, and has been involved as a Council liaison to a number of our commissions, and he's never met a single commissioner who did not give their absolute best to the City. For any commissions with which he's involved, on the record he's saying thank you to the people who make a great difference and do a great job; they do it from the right place in their thinking and in their hearts to help make our community be a better home.

Mayor Bailey stated we appreciate all of our volunteers. He noted in our recent monthly newsletter we'd indicated there were vacant seats on some commissions; the number of applications received for those commission seats has been amazing, so that's always nice to see.

Council Member Thiede stated regarding Item K, he agrees with Council Member Dennis; also, these commissions really help us in trying to look at all of the information that exists on topics, sometimes very lengthy, to help us make decisions. He stated he's the Council liaison to the Advisory Committee on Historic Preservation this year; Joseph Gall and Corinne Marz are rejoining the Commission through 2024. Council Member Thiede stated he's also the Council liaison to the Planning Commission this year; he recognized both Ken Brittain, a longtime commissioner, and Jerret Wright, who will be continuing on the Planning Commission through 2025.

Council Member Thiede stated regarding Item S, there's a new member of the Planning Commission, Emily Stephens. He spoke with her yesterday and learned she's

a solo engineer; she works in planning for cities and is a civil engineering consultant. He asked that the Council consider Ms. Stephens for appointment to the Planning Commission, as it looks like she would do very well there.

Mayor Bailey added those who work on the commissions do so voluntarily; they're not paid, but just want to give back to their community, which we appreciate.

Motion by Council Member Thiede to approve the Consent Agenda; second by Council Member Khambata. Motion carried: 5-0.

8. APPROVE DISBURSEMENTS

A. Approve payments for the period of 1/28/2022-2/10/2022 in the amount of $1,166,826.00.

Motion by Council Member Dennis to approve disbursements; second by Council Member Olsen. Motion carried: 5-0.

9. PUBLIC HEARINGS

A. Hawthorne Pines 2nd Addition - Final Plat, Development Agreement, and Easement Vacation
Staff Recommendation: 1) Hold the public hearing to vacate a drainage and utility easement. 2) Adopt Resolution 2022-025 vacating a drainage and utility easement within Outlot H, Hawthorne Pines 1st Addition. 3) Adopt Resolution 2022-026 approving the final plat for Hawthorne Pines, which is a 49.80-acre residential development with 106 single-family lots. 4) Approve the Hawthorne Pines 2nd Addition Development Agreement with Pulte Homes of Minnesota. 5) Adopt Resolution 2022-027 approving the Hawthorne Pines 2nd Addition Development Plans dated December 20, 2021, prepared by Alliant Engineering.

Senior Planner Emily Schmitz stated this development is located in the northwest corner of the community, at the intersection of 65th Street and Geneva Avenue. When Pulte purchased the project area, they officially named it Hawthorne Pines; they're back with their 2nd Addition of 106 lots. Pulte will be connecting Goodview to Geneva with this addition, creating that connection at the north border. Outlot D is also being platted as part of the 2nd Addition, as it's needed for the connection of Goodview at Geneva.

Regarding the easement vacation, as part of the 1st Addition, a storm sewer pipe was required to be constructed to outlet into the storm pond with Outlot E. Now that we're platting the lots, the storm pipe is not centered in the easement, so we're going to vacate that easement; as we plat the 2nd Addition, that pipe will sit in the center of the new easement area that will be platted.

Planner Schmitz stated she, staff, and the developer would take any questions, but none were asked.

Mayor Bailey opened the public hearing. As no one wished to speak on this item, Mayor Bailey closed the public hearing.

Council Member Olsen made a motion to Adopt Resolution 2022-025 vacating a drainage and utility easement within Outlot H, Hawthorne Pines 1st Addition; second by Council Member Thiede. Motion carried: 5-0.

Council Member Thiede made a motion to Adopt Resolution 2022-026 approving the final plat for Hawthorne Pines, which is a 49.80-acre residential development with 106 single-family lots; second by Council Member Dennis. Motion carried: 5-0.

Council Member Dennis made a motion to Approve the Hawthorne Pines 2nd Addition Development Agreement with Pulte Homes of Minnesota; second by Council Member Khambata. Motion carried: 5-0.

Council Member Khambata made a motion to Adopt Resolution 2022-027 approving the Hawthorne Pines 2nd Addition Development Plans dated December 20, 2021, prepared by Alliant Engineering; second by Council Member Olsen. Motion carried: 5-0.

10. BID AWARDS - None.

11. REGULAR AGENDA

A. Liquor Compliance Check Violation
Staff Recommendation: Allow business representatives an opportunity to respond to the City Council regarding liquor compliance check violations occurring November 22, 2021 at MOPECA of Cottage Grove, Inc. DBA Las Margaritas Mexican Restaurant: If the representative admits to the violation or fails to attend, impose the scheduled penalty for the first violation in a 24-month period, a $500 fine and one-day suspension; or, at the City Council's discretion, in lieu of the suspension, the participation of employees in an educational program approved by the Public Safety Director. If the representative denies the violation, schedule a contested-case hearing before an administrative law judge.

Pete Koerner, Director of Public Safety stated due to COVID, over the last two years, they'd laid low on compliance checks; however, on November 22, 2021, the Police Department conducted liquor compliance checks of businesses with liquor licenses. We used an underage buyer, and there was one failure, Las Margaritas; they hadn't had a violation since 2015. We've been doing these compliance checks for decades, as does Washington County, and we follow best practices. Director Koerner felt our City can do something even better with Community Engagement Officers; they would be part of our business liaison, so it's an opportunity for us to engage with our businesses and do some more education to revamp our program. He asked Council to share their ideas

with us on how we can be known as a City that partners with their businesses. He noted Officer Sorgaard had met with many of the businesses to let them know we'd be restarting the compliance checks.

Director Koerner gave details of the violation: A 19-year-old decoy sat at the bar, ordered a Coors Light, and the bartender did not ask for her age or for identification, and served her a beer. Officers spoke with the bartender, who admitted to the violation, and was issued a misdemeanor citation under our City Ordinance. We want to keep this an educational experience, not an extremely punitive one.

Director Koerner stated Officer Schoen has contacted Las Margaritas; they've not disputed this at all and stated they'd deal with their employee. Sergeant McCormick coordinates the program so he and Officer Schoen have already been working with Las Margaritas on training needed, two options: Online, or in-person training with our staff.

Council Member Dennis stated the police conducted this properly, and noted he'd previously spoken about this with Director Koerner. He wholeheartedly agrees with Director Koerner that one of the best things we can do in this community is to find ways to help people be successful; we have an opportunity to be a standout city in this regard. Council and staff are going through our City ordinances, trying to come up with some new ideas to make sure we're refreshing and updating all of them. From an ethical standpoint, he would have a hard time holding somebody to the current ordinance, knowing that the ordinance we're going to roll out will be substantially different. The pandemic has been a nightmare for those in the hospitality industry. The educational component is key; we want to embrace success, not failure. He felt we should come up with something that is truly reasonable, as there's never a wrong time to do the right thing. We have an opportunity here to show a little bit of compassion and make a difference; he felt the fine, the closure of the business for a day, or other punitive measures would be very detrimental to that business. We don't want to see any more hardship come to them. It has been years since Las Margaritas had an issue, and because we're so close to the point where we're going to have a new protocol, it would be reasonable to let this one go, get some training for them, and move into the new timeframe with an enhanced program.

Mayor Bailey stated staff's recommendation was to allow the Council to make this call; in lieu of the suspension and the $500 fine, the participation of employees in an educational program approved by our Public Safety Director could be the route we want to go in this particular case. He congratulated all of the other establishments, both liquor and tobacco, that passed the compliance check. He stated he personally would not have an issue if the Council wanted to make a motion in lieu of the fine or the one-day suspension that we move to education.

Council Member Dennis made two other points: 1) There is no current statutory requirement for alcohol compliance checks in the State of Minnesota; there is for tobacco, one per year. Washington County specifies there would be at least one tobacco and one alcohol compliance check; these checks over the years were due to acting on decisions made by previous Councils and our Police Department. We should

just try to do what's reasonable and fair, and we have the opportunity to do something really good for people with their licenses; a license is a privilege, not a guarantee. 2) To be fully transparent, Council Member Dennis stated he had the opportunity to talk to Officer Schoen today, who was very supportive of some of the things mentioned here and what he'd spoken to Director Koerner about earlier. Officer Schoen will be the one who will be interacting with our local investors.

Council Member Thiede stated the last time we had liquor compliance check violations, typically we'd have them do the education; he asked what types of educational programs they were supposed to be doing at Las Margaritas. Director Koerner replied education is done internally, as part of employee orientation, but he didn't know the specifics of that training.

Council Member Thiede stated he understood that things might get busy, but that shouldn't be a reason to not pay attention to some of those details. In the past, we still had the fine, but we also did the educational program.

Director Koerner stated we only have the requirement for the educational program if they have a failure; there's nothing that says a business has to have their own program. The last violation for them was in 2015; Las Margaritas has always invited us to their business in order to have the training done by our compliance officers.

Council Member Thiede stated it is still management's responsibility. Even though we may change some things in our ordinance in the future, a fine should be an incentive to make sure that they're getting their employees to follow procedures, as this employee didn't even ask for identification. He'd go with the educational route versus suspension, but asked if the $500 fine and the suspension could be separated.

Director Koerner stated our rule has always been the $500 fine and then, in lieu of the one-day suspension, we'd provide the training.

Council Member Olsen asked City Attorney Korine Land about the language as it relates to the City Ordinance. This isn't the first time we've spoken about how we want to treat or hold accountable a business that has a liquor compliance check failure. He asked some questions a year or two ago about a business that failed; that representative actually came to the meeting and asked for some leniency. At that time, he recalled the advice we were given was the ordinance is the ordinance; so, we should follow the guidelines as laid out in the ordinance. He'd like to know what sort of purview we have: Do we have the ability to essentially vacate both the fine and the suspension, or are we prohibited from doing that based on the language of the ordinance? Do we need to simply follow the ordinance as it relates to instituting the fine, but then in lieu of the suspension, having the business participate in an educational program approved by Director Koerner?

Attorney Land replied the ordinance on the screen says you shall impose a one-day suspension and a $500 fine. There is a State Statute that allows the City to impose civil penalties; civil penalties are anything from revocation, suspension, fines, or anything in between, including educational pieces. So, you have the ability to impose any kind of civil penalty that you believe is appropriate, as the Statute gives you that latitude. The City Ordinance gives you the direction that you felt would be fair for each and every

liquor license establishment that comes before you. It takes out all of the subjectivity; it takes out I know this store, I know this owner, they're local, etc., it takes all of that out of the equation, which is the clear and objective way to impose your penalties. That doesn't mean that you can't choose to deviate from the ordinance; you're the Council, you can choose to do that. She strongly advised Council if you're going to do that, that you have a good reason for doing so, as the next people that come before you are going to say, "How come they got that deal, and I didn't?" She assumes that's what her advice was last time.

Council Member Olsen stated it sounds pretty close to the same; he appreciated that she clarified that if we're going to deviate from the language that there needs to be a good reason for that. He felt Council Member Dennis articulated a very good reason, in that we're in the midst of reviewing all language of our various ordinances and the way in which we're going to, at least in the near future, manage situations such as these. He stated he concurred with Council Member Dennis that it would make sense, it would be reasonable, it would be rational in this circumstance; that we're in the midst of the ordinance review (which we were not previously), to vacate the fine and the suspension with an understanding that we would like the establishment to conduct some additional employee training through a program that our Public Safety Director deems appropriate.

Council Member Khambata stated in light of the fact that we're reviewing our ordinances, and this one is likely to change, he's concerned about fair and equal enforcement of our ordinance moving forward. He thought it would be unfair, knowing that in three months they would have been treated differently, to enforce an ordinance that we know is outdated. He felt we want to promote healthy, thriving businesses in town. In the spirt of education, he'd be in favor of stopping suspension in lieu of an educational program; he'd also be in favor of postponing the $500 fine if they don't have another failure within two years. He felt that was a reasonable compromise. The fine is a motivator, so if they complete their training and they went seven years without failing, it might be 12 or 24 months without getting one, then he didn't think that they should have to pay that fine. For the number of employees and turnover that they've had, to have one violation in seven years he thought required some special consideration.

Mayor Bailey stated he didn't have any concern with the special consideration. He didn't know, though, that he'd want to say if they failed again in a year or six months.

Director Koerner stated we have additional sanctions; it goes up to a three-day suspension and much-higher fines if they fail again. Mayor Bailey stated he wanted them to be aware of that.

Council Member Khambata stated there has to be a consequence for another failure; Director Koerner stated we do a look back for 24 months.

Mayor Bailey stated whatever our decision is, if this passes, he asked Director Koerner to report back to the Council that the training was completed so we'd be aware.

Director Koerner replied they'd do the follow up; that information is given to the City Clerk, and that information will then be provided to Council.

Council Member Thiede stated it appears that everybody else thinks that we should start a precedent and not charge them a fine, but he assumed the changes in the ordinance that we're going to making probably aren't going to remove the fine. He doesn't necessarily see where that's a good thing to do at this point, but it looks like that's going to pass. He warned that even if we change the ordinance, and there's no fine, and somebody comes in again, they're going to say, you let Las Margaritas off the hook for the $500 fine. Why would you charge us?

Director Koerner replied we recently received correspondence from the State; they have a reward program where even the State is looking at more of an educational component, asking if Departments were interested in this. He felt we could really work on the educational side of things for the businesses.

Motion by Council Member Dennis that the owners and staff of Las Margaritas undergo an approved training program, as signed by Pete Koerner, Director of Public Safety, within the next 90 days to accord all relevant measures related to properly serving alcohol; second by Council Member Olsen.

Council Member Olsen asked if we need to include language in the motion relative to vacating the $500 fine and the one-day suspension. Attorney Land replied she'd suggest that Council do so, just to make sure the record is clear.

Motion by Council Member Dennis to add the following statement to his original motion: We will discontinue the $500 fine and one-day suspension, as per Council direction; second by Council Member Olsen.

Council Member Thiede stated he wanted to make sure that they're not suggesting that we're making a motion to totally remove those, because it's going to come up for change; specifically, it's just for this Las Margaritas case, and that was confirmed.

Motion carried: 5-0.

12. COUNCIL COMMENTS AND REQUESTS

Council Member Khambata stated he had a chance to meet with some of the directors for the various departments, and he got a really good feel of what staff and the directors have been doing in terms of Cottage Grove's vision. They're kind of mapping the progress that we've made in the last 10-or-12 years, and he's really impressed with everyone's hard work and dedication. Everyone he spoke with was dedicated and compassionate about what they did for the City; many of them are also residents of the City, so it gave him a great sense of pride in what we're doing as a community.

Council Member Dennis welcomed Boy Scout Troop 777 to the meeting tonight. He hoped they had some good takeaways from what they saw here. This is truly an effective local government working on behalf of the people for the greater good, and

we're also putting a little bit of compassion in the process, too. He hoped they'd be able to learn from that and take it with them as they leave the Council Chambers tonight.

Council Member Dennis stated he appreciates working with his City Council colleagues for their ability to look at situations from 360 degrees and make decisions that really are great decisions. He's very happy and proud to be here tonight with all of them.

Council Member Thiede mentioned that there's another Strawberry Fest meeting this coming Monday night, at Carbone's, at 5:30. This year's logo and slogan have been chosen: The slogan is Berry Nice to See You Again, as the Fest hasn't happened for a couple years; both are displayed on the Strawberry Fest website. We can use all the help we can get, so he encouraged people to come to Carbone's to join us; there are typically two meetings a month. The Strawberry Fest will be held the third weekend in June, so come join us at Carbone's to get involved.

Council Member Olsen welcomed Gretchen Larson, our new Economic Development Director, who started working for us today. He stated we look forward to all of the great work that she will be doing on behalf of all of the residents in the City of Cottage Grove. He also thanked Director Christine Costello, who is now our Community Development Director, previously our Economic Development Director; she's been wearing two hats for quite a while and she will have an integral part of Director Larson's training process moving forward. Director Costello has done a really nice job; he thanked her for all of the extra time, energy, and effort that she's put in to keep everything going until we found a great candidate.

Council Member Olsen stated he and his wife had the opportunity to have an early Valentine's Day dinner on Saturday night at River Oaks. He'd already spoken to Parks and Recreation Director Zac Dockter, but wanted to publicly acknowledge the staff at River Oaks for the tremendous job that they did; the meal was phenomenal, and Chef Isaac and his team really did a nice job. The service was also very, very good. It's truly a pleasure to have something that high quality, that's publicly owned and operated, so close to home. He encouraged anyone who hasn't had the opportunity to get out to River Oaks for a meal to do so whenever you get a chance; he promised it would make you want to come back, as both of their meals were outstanding.

Council Member Olsen stated that he and his wife will be making a donation to the Craig Woolery Scholarship Fund in March, for area students who are interested in pursuing Public Safety as a career choice. He mentioned it now to encourage anybody who knows of a young person who's interested in Public Safety as a career to contact our Public Safety Board Chair, Julie Rice; you can also contact our Community Engagement Officer, Dan Schoen, our Public Safety Director, Pete Koerner, or any one of us on the Council, and we'd be happy to point you in the right direction. The money is there for young people who want to pursue a career in Public Safety to have a little bit of financial assistance to help them get into school. Today careers in Public Safety might not be viewed as positively as they should be, which he finds sad and

disappointing, but the reality is we're very lucky in the City of Cottage Grove to have an outstanding Public Safety team. The Craig Woolery Scholarship Fund is named for our former Public Safety Director, Craig Woolery; it is intended to continue that legacy of great young people. So, even for our Scouts who are here tonight, if you've ever thought of being a police officer or a firefighter or an EMT or a medic, just know that our Public Safety Board has scholarship money set aside for which you can apply that will help you pursue that career.

Mayor Bailey also welcomed Gretchen Larson to the City team; he noted they had their official first meeting earlier today.

Mayor Bailey stated we want individuals and businesses to support the Strawberry Fest committee, either financially or with personnel. He stated there's an Ambassador Program in Cottage Grove that's kind of tied to the Strawberry Fest; those Ambassadors actually go out into communities around our state and also outstate. They tout our successes and bring awareness to Cottage Grove, which we're very proud of. Because of COVID, they haven't had coronations, but this year there will be one; if you're interested in serving as an Ambassador for the City of Cottage Grove, please reach out or check the Strawberry Fest website.

He noted we currently don't have a working festival float. The old float was getting worn out, with safety concerns for our Ambassadors; so we discarded the old float and the City purchased a new trailer. He's been working with some local businesses on fundraising; we've raised about $9,000 from gracious donors, 3M and Renewal by Andersen. If a group is interested in doing some more fundraising, we need about $15,000; so, we're looking for businesses that want to donate to this float. We'd like to have it up and running again before Strawberry Fest, which is in June, or maybe sooner, as many festivals start as early as April and May. It looks like everybody's finally getting back to holding festivals, so we'd like to get this current Ambassador group on the new float before they change roles in June.

Council Member Thiede stated they could use the skills and experience of construction people, and it would be a good way to volunteer. Otherwise, we have to hire some float builders. If people have those skills, please contact him or reach out to the City, as we'd love to have you help.

Council Member Olsen stated he'd been wondering if the Strawberry Fest had a construction crew, so he's glad Council Member Thiede mentioned that. He'd be happy to carry that message forward to the Cottage Grove Lions Club, as we have several members of our club who are exceptionally handy people; we'd be happy to pitch in where we can, to help with both the financial and construction side. He also mentioned that a young Boy Scout, who was pursuing his Eagle Scout, needed a project. So, he told Council Member Thiede if that's something where this young man could be of service, he'd be happy to point him his way. This sounds like it's something that's right up our alley as a Lions Club, and we participate in Strawberry Fest every year also, so we have a vested interest in making sure that it gets done right.

Mayor Bailey stated if you're interested in participating in this project, either with your skills or financially, please feel free to reach out to him or contact our City staff, and we'll

make sure that you get recognized. Those who are funding the float to get it rebuilt will have their names displayed on the float, which goes into many different cities/areas.

Mayor Bailey stated one of the important things for the City of Cottage Grove is communication, trying to find ways to get the public more involved in events that are taking place; that might be through social media, our City website, or listening to the Council Meetings. As we continue to evolve and grow as a community, we always have neighborhood meetings with future developers; there are two neighborhood meetings occurring soon in two areas of our community:

1) Thursday, February 24, at City Hall, in the Training Room, from 5:00 to 6:30 p.m., regarding the Wolterstorff property, located near the Woodbury border on Jamaica Avenue; there's a pond and some housing there. The property that's just to the north of that is the Wolterstorff property, and two developers are looking at putting some housing on that property.
2) Thursday March 3, at the HERO Center, from 6:00 to 7:30 p.m., regarding residential development south of 100th Street, just south of the future NorthPoint development.

Neighbors in those areas are notified to make sure that they're aware, but we also want the public to be informed so they'll understand when they see construction beginning; they'll have had the opportunity to review the plans and designs for those areas.

13. WORKSHOPS - OPEN TO PUBLIC - None.

14. WORKSHOPS – CLOSED TO PUBLIC - None.

15. ADJOURNMENT

Motion by Council Member Khambata, second by Council Member Thiede, to adjourn the meeting at 7:56 p.m. Motion carried: 5-0.

Minutes prepared by Judy Graf and reviewed by Joe Fischbach, HR Manager/City Clerk.

City Council Action Request

7C

Meeting Date	3/2/2022
Department	Public Works
Agenda Category	Consent Agenda
Title	Public Service Commissioner Appointment
Staff Recommendation	Appoint Lise Rediske to the Public Services Commission for a two-year term ending 2/29/2024.
Budget Implication	None
Attachments	Rediske - Public Service Appointment.tif 1.96MB

Cottage Grove
Where Pride and Prosperity Meet

To:	Honorable Mayor and City Council Jennifer Levitt, City Administrator
From:	Ryan Burfeind, Director of Public Works/City Engineer
Date:	2/11/2022
Subject:	Appointment to Public Services Commission

The Public Services Commission currently has two empty seats. After conducting interviews, on February 9, 2022, Council Member Justin Olsen with the support of Deputy Director of Public Safety/Police Captain, Greg Rinzel, Director of Public Works/City Engineer, Ryan Burfeind and Commission Chair, Steve Ingram recommends the appointment of Lise Rediske to serve as Commissioner on the Public Services Commission for a term ending 2/28/24. Rediske brings with her extensive experience having served previously on the Public Service Commission.

Recommendation

Appoint Lise Rediske to the Public Services Commission beginning on 3/1/2022.

City Council Action Request

Cottage Grove
Where Pride and Prosperity Meet

7D

Meeting Date	3/2/2022
Department	Public Works
Agenda Category	Consent Agenda
Title	Public Service Commissioner Appointment
Staff Recommendation	Appoint Lisa Kons to the Public Services Commission for a two-year term ending 2/29/2024.
Budget Implication	None
Attachments	Kons - Public Service Appointment.tif 2.02MB

Cottage Grove
Where Pride and Prosperity Meet

To:	Honorable Mayor and City Council Jennifer Levitt, City Administrator
From:	Ryan Burfeind, Director of Public Works/City Engineer
Date:	2/11/2022
Subject:	Appointment to Public Services Commission

The Public Services Commission currently has two empty seats. After conducting interviews, on February 9, 2022, Council Member Justin Olsen with the support of Deputy Director of Public Safety/Police Captain, Greg Rinzel, Director of Public Works/City Engineer, Ryan Burfeind and Commission Chair, Steve Ingram recommends the appointment of Lisa Kons to serve as Commissioner on the Public Services Commission for a term ending on 2/28/24. Kons brings with her extensive professional experience, with her work as a Traffic Safety Programs Manager at the Minnesota Safety Council.

Recommendation

Appoint Kons to the Public Services Commission beginning on 3/1/2022.

City Council Action Request

7E

Meeting Date	3/2/2022
Department	Administration
Agenda Category	Consent Agenda
Title	Response to Open Forum Comments Regarding Former Mississippi Dunes Property
Staff Recommendation	Receive response from City Attorney Land to Open Forum comments at the February 2, 2022 City Council meeting regarding the former Mississippi Dunes Golf Course property.
Budget Implication	N/A
Attachments	Letter from K Land.tif 3.59MB

February 23, 202

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City Council Action Request

7F

Meeting Date	3/2/2022
Department	Parks and Recreation
Agenda Category	Consent Agenda
Title	Glacial Valley Park Building Design Agreement
Staff Recommendation	Authorize architectural services agreement with Wold Architects and Engineers for design development of the Glacial Valley Park building.
Budget Implication	$36,600 design costs plus $1,000 in estimated reimbursable. Source of funds would be Park Trust Fund.
Attachments	Council Memo-GV Building 2.tif 61.13KB Wold Proposal.tif 2.71MB

Cottage Grove
Where Pride and Prosperity Meet

To: Honorable Mayor and City Council

From: Zac Dockter, Parks and Recreation Director

Cc: Jennifer Levitt, City Administrator

Date: February 18, 2022

Subject: Glacial Valley Park Building Design Agreement

Introduction/Background
Staff presented Glacial Valley Park building options for City Council consideration at its' February 9th workshop. Council expressed interest in exploring a more in-depth and enhanced building design that would appeal to a broader audience.

Wold Architects and Engineers was hired in December of 2021 to create the concept designs that were presented at the workshop. Wold has since submitted a detailed proposal to bring the project from concept to final design. The total proposed fee through design development is $36,600 plus reimbursables (estimated at $1,000). Attached with this memo is the full proposal detailing project/services scope.

Staff Recommendation
Authorize architectural services agreement with Wold Architects and Engineers for design development of the Glacial Valley Park building.

February 14, 2022

Zac Dockter, Parks & Recreation Director
City of Cottage Grove
8635 W. Point Douglas Road
Cottage Grove, Minnesota 55106

Re: Glacial Valley Park – Park Shelter
Commission No. 212234

Dear Zac:

It was great talking to you about next steps for the Park Shelter at Glacial Valley Park, I am glad discussions with the City Council went well and they were supportive of the concept work we worked on together. As a follow up to that meeting, we discussed that continuing with the design process would be a good next step that would provide a more comprehensive final solution and a more detailed cost estimate for budgeting purposes.

- Refine the layout of the facility in collaboration with your parks and recreation team. These meetings would continue the discussions on use of spaces, materials and finishes, mechanical and electrical solutions and technology.
- Develop the final exterior design concept, construction type and materials.
- Develop the site solution in collaboration with Bolton & Menk to support the first phase of work at the park.
- Meet with city planning, engineering and code enforcement to gain consensus and approval of the final design.
- Determine desired sustainable strategies, if any.
- Meet with City leadership and council as needed to support the approval process.

To advance the design to the level needed to determine a final solution, gain engineering, planning and zoning approval, and provide a detailed budget, I am recommending we continue the design process and complete Design Development by the end of June 2022. This will allow for the level of detail needed to gain approval on the design solution and have enough detail to go through a formal approval from the city planners and engineers. Pausing the design at the completion of Design Development will give adequate time for discussion with city leadership, financing and for approval by the City Council. I recommend the following preliminary schedule:

1. Final Design – March 2022 through June 2022.
2. Cost Estimating – July 2022.
3. Project Hold (to allow for review and approval) – August 2022 through Oct-Nov 2022.
4. Contract Documents – December 2022 through February 2023.
5. Bidding – March 2023.
6. Construction – March 2023 through September 2023.

We can adjust the schedule as needed as we receive feedback and direction.

Wold Architects and Engineers
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldae.com | 651 227 7773

PLANNERS
ARCHITECTS
ENGINEERS

We are excited to help you with this important project and look forward to continuing what we started together. We typically establish a fixed fee at the project onset. All engineering and consultants are included in our fixed fee. For new construction like this project, I would propose a fixed fee based on 6% of agreed on cost of construction. Utilizing the costs developed during the concept planning phase, our fee calculation would be as follows:

$2,600,000 (construction cost) x 6% = $156,000 (Total Architectural Fee)

We believe that our initial concept planning would equate to the Schematic Design phase of the work and would reduce the fee going forward by this amount ($18,000).

A typical AIA contract would allocate our fee based on the following percentages:

Schematic Design – 15% (completed)
Design Development – 20%
Contract Documents – 40%
Bidding – 5%
Construction Administration – 20%

Utilizing the above percentages, I recommend the following:

Design through Design Development
$156,000 (Total Fee) x 35% = $54,600 Total Fee
Less completed work = <$18,000>
Total Proposed Fee through Design Development = $36,600

Construction Documents, Bidding through Construction x 65% = $101,400

Reimbursable expenses would be in addition to this fixed fee and are estimated to be approximately $1,000.

Please call me if you have questions regarding this proposal.

Sincerely,

Wold Architects and Engineers

John McNamara | AIA, LEED AP
Partner

City of Cottage Grove

Jennifer Levitt
City Administrator

Date

cc: Jake Wollensak, Wold Architects and Engineers

City Council Action Request

7G

Meeting Date	3/2/2022
Department	Public Works
Agenda Category	Consent Agenda
Title	Military Road Engineering and Traffic Investigation – Speed Limit Authorization
Staff Recommendation	Accept the speed authorization from MnDOT changing the speed of Military Road to 45 MPH from Jamaica Avenue to the cul-de-sac approximately 3,200 feet southeast.
Budget Implication	N/A
Attachments	Military RD Speed Study CC Memo.tif 9.39MB Military Rd Speed Study MnDOT Authorization.tif 2.86MB

Cottage Grove
Where Pride and Prosperity Meet

To: Honorable Mayor and City Council
Jennifer Levitt, City Administrator

From: Amanda Meyer, PE, Assistant City Engineer
Jared Juth, Graduate Engineer

Date: March 2, 2022

Re: Military Road Engineering and Traffic Investigation – Speed Limit Authorization

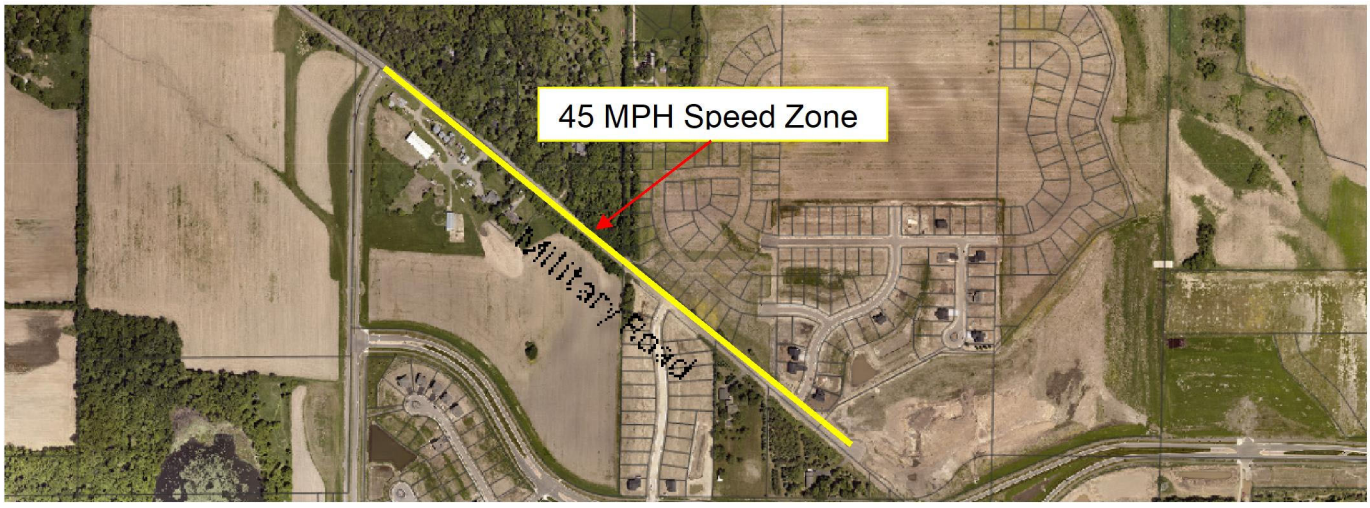
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Background

In order to post a speed limit other than the statutory speed limits, MnDOT needs to complete an engineering and traffic investigation on the roadway. This investigation includes reviewing vehicle speeds, traffic volumes, and characteristics of the roadway. In June 2021 the City Council authorized a speed study of Military Road from Jamaica Avenue (CSAH 20) to the cul-de-sac approximately 3,200 feet southeast (Resolution 2021-077). Currently, the segment is still posted at 55 MPH in both directions.

Discussion

Roadway speed limits are set by MnDOT at the 85th percentile speed as determined by a speed study. As shown in the attached document, this segment of Military Road has an 85th percentile speed of 45 MPH. On February 15, 2022, MnDOT approved the Speed Limit Authorization for this portion of Military Road for 45 MPH. Per State Statute 169.14, the City may now post this approved speed limit. The speed limit changes have been discussed with the Public Safety Department, and they support the recommended speed limits proposed by MnDOT.



In order for the speed limits to be modified as described and shown above, the speed authorization provided by MnDOT and included with this memo needs to be accepted by the City Council.

Recommendation

It is recommended the City Council accept the speed authorization from MnDOT, therefore changing the speed of Military Road to 45 MPH from Jamaica Avenue to the cul-de-sac approximately 3,200 feet southeast.

Appendix – Speed Study Results

STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION

FIELD SPEED SURVEY SHEET

SPEED SAMPLE #1

Road No	Military Road	Zone	STAT MPJL	Location	A point approx. 700 ft. north of Jeffery Ave S
Ref Pt		Time	1440		
County	Washington	Weather	Cloudy, Sunny	Road Type	Two lane undivided bituminous roadway
Date	10/12/2021	Machine	Pro Laser III	N.B. 85% Tile 45	Pace 37 to 46 — 72.5% in 10 pace
Day	Tuesday	Observer	C. Riley/S. Shahl	S.B. 85% Tile 45	Pace 38 to 47 — 80.0% in 10 pace

	PASSENGER CARS, PICKUPS,VANS								TRUCKS & BUSES							
	NORTH Bound				SOUTH Bound				NORTH Bound				SOUTH Bound			
	VEHICLES	T.	A.T.	%	VEHICLES	T.	A.T.	%	T. & B.	T.	A.T.	%	T. & B.	T.	A.T.	%
60																
59																
58																
57	|	1	51	100.0%												
56																
55																
54	|	1	50	98.0%												
53																
52	|	1	49	96.1%												
51	|	1	48	94.1%	|	1	60	100.0%								
50	|	1	47	92.2%	|	1	59	98.3%								
49																
48					||	2	58	96.7%								
47					|||	3	56	93.3%								
46	|	1	46	90.2%	||	2	53	88.3%								
45	|||	3	45	88.2%	|||| |||	3	51	85.0%								
44	|||	3	42	82.4%	||||	5	42	70.0%								
43	|||| |	6	39	76.5%	||||	5	37	61.7%								
42	|||||	5	33	64.7%	|||| ||	7	32	53.3%								
41	|||	3	28	54.9%	|||	3	25	41.7%								
40	||||	4	25	49.0%	||||	5	22	36.7%								
39	|||||	5	21	41.2%	|||	4	17	28.3%								
38	||||	4	16	31.4%	||||	5	13	21.7%								
37	|||	3	12	23.5%	|	1	8	13.3%								
36					||	2	7	11.7%								
35	||||	4	9	17.6%	||	2	5	8.3%								
34	|	1	5	9.8%	||	2	3	5.0%								
33	|	1	4	7.8%												
32	|	1	3	5.9%												
31					|	1	1	1.7%								
30	|	1	2	3.9%												
29																
28																
27	|	1	1	2.0%												
26																
25																
24																
23																
22																
21																

MNDOT 21273 (2-2000) (6-2009)

DEPARTMENT OF TRANSPORTATION

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION

LOCAL STREET OR HIGHWAY SPEED LIMIT AUTHORIZATION

Road Authority:	**City of Cottage Grove (in Washington County)**
Road Name:	**Military Road**
Zone Begin:	**County State Aid Highway 20 (Jamaica Avenue South)**
Zone End:	**South terminus of Military Road (cul de sac)**

As authorized in Minnesota Statutes, Section 169.14, it is hereby ordered that the following speed limits are approved and shall be put into effect on the described roadway or sections thereof.

45 miles per hour between the intersection with County State Aid Highway 20 (Jamaica Avenue South) and a point approximately 400 feet southeast of the intersection with Jensen Avenue South (the south terminus of Military Road)

NOTE:
The speed limits, described in this authorization, are authorized contingent upon curves and hazards being signed with the appropriate advance curve or warning signs, including appropriate speed advisory plates. The roadway described shall be reviewed for traffic control devices impacted by the authorized speed limits before posting the signs. Warning signs and speed limit signs shall be in accordance with the Minnesota Manual on Uniform Traffic Control Devices. The speed limits, described in this authorization, are based on roadway conditions on the date of this authorization. Changes in roadway alignment, grade, or paving a gravel surface shall void this authorization.

AUTHORIZED SIGNATURE (MS 169.14)	Kenneth E Johnson	Digitally signed by Kenneth Johnson Date: 2022.02.15 11:17:16 -06'00'

Road authority complete when traffic control devices are changed or are installed, implementing this authorization:

Date	**Signature**	**Title**

(KEEP COPY ON FILE)

City Council Action Request

7H

Meeting Date	3/2/2022
Department	Public Works
Agenda Category	Consent Agenda
Title	2022 City-Wide Sweeping Quotes
Staff Recommendation	Adopt Resolution 2022-028 awarding the 2022 City-Wide Sweeping project to the low quote supplied by Pearson Bros, Inc., for $115.00 per hour.
Budget Implication	Stormwater Maintenance Fund - $115.00 per hour
Attachments	City-Wide Sweeping Quote Award CC Memo.tif 5.29MB City-Wide Sweeping Quote Award Resolution.tif 2.17MB

To: Honorable Mayor and City Council
Jennifer Levitt, City Administrator

From: Jared Juth, Graduate Engineer

Date: March 2, 2022

Re: 2022 City-Wide Sweeping Quotes

Background

The City of Cottage Grove recently received quotes to complete the annual city-wide sweeping project. This sweeping project is completed each year in the spring to remove debris from City streets, including sediment and organic matter. Sweeping projects such as this are one of the most effective best management practices for preventing these materials from entering the storm sewer system. Once this material enters the storm sewer, it is deposited in stormwater ponds where it is costly to remove. In addition, this material will contain phosphorus that can dissolve into stormwater runoff and reach local lakes and rivers. Increased phosphorus can create large algae blooms, so removal of the material from the streets is a very effective way to improve water quality in these water bodies.

Discussion

It is estimated that there will be 300-350 total hours of sweeping for the 2022 project. Quotes were due for this project on February 17, 2022. Three quotes were received. Each contractor provided an hourly rate quote for four primary machines and two alternate machines that will be used on the project. Additionally, the manufacture year of the machines was included to allow the City to determine the average fleet age. The age of the fleet is important, as this work needs to be completed in a tight timeframe prior to the City's spring hydrant flushing project. Due to this tight timeframe, equipment downtime can cause a major scheduling issue. The following table summarizes the results of the quotes received. The complete quotes are also attached for reference.

	Contractor	Quoted Amount
Low	Pearson Bros, Inc	$115.00/hour
#2	Allied Blacktop Company	$116.00/hour
#3	Mike McPhillips, Inc.	$135.00/hour

The low quote for the project was Pearson Bros, Inc. at $115.00 per hour. At the estimated 350 hours of sweeping for the City of Cottage Grove, the low quote of $115.00 per hour gives an estimated cost of $40,250. This project will be funded out of the Stormwater Maintenance fund, which has an annual budget of $150,000, as it is a preventative measure and best management practice to help reduce sediment within the City's stormwater system as mentioned above.

Recommendation

It is recommended that the City Council award the 2022 City-Wide Sweeping project to the low quote supplied by Pearson Bros, Inc., for $115.00 per hour.

CITY OF COTTAGE GROVE, MINNESOTA
CITY COUNCIL
RESOLUTION 2022-XXX

RESOLUTION AWARDING THE 2022 CITY-WIDE SWEEPING PROJECT TO PEARSON BROS, INC. FOR $115.00 PER HOUR

WHEREAS, quotes were requested to provide the necessary work for the 2022 City-Wide Sweeping Project; and

WHEREAS, three firms submitted quotes; and

WHEREAS, it appears that the Pearson Bros, Inc. provided the lowest accepted quote; and

WHEREAS, it is the recommendation of the City Engineer that the quote be awarded to Pearson Bros, Inc. for $115.00 per hour.

NOW THEREFORE BE IT RESOLVED, by the City Council of the City of Cottage Grove, County of Washington, State of Minnesota, that the 2022 City-Wide Street Sweeping Project be awarded to Pearson Bros, Inc. for $115.00 per hour and the appropriate officials are hereby authorized to sign all necessary documents to effectuate these actions.

Passed this 2nd day of March 2022.

_____
Myron Bailey, Mayor

Attest:

_____
Joe Fischbach, City Clerk

City Council Action Request

71

Meeting Date	3/2/2022
Department	Public Works
Agenda Category	Consent Agenda
Title	Granada Avenue Residential Well Sealing Project - Final Payment
Staff Recommendation	Adopt Resolution 2022-029 approving the final payment to Mineral Services Plus, LLC for the Granada Avenue Residential Well Sealing Project in the amount of $8,207.51.
Budget Implication	$8,207.51 - 3M Settlement Agreement
Attachments	Granada Ave Well Sealing Final Payment Letter.tif 1.25MB Granada Ave Well Sealing Final Payment Resolution.tif 73.31KB

SEH

Building a Better World for All of Us®

February 15, 2022

RE: Cottage Grove, MN
Granada Avenue Residential Well Sealing
SEH No. COTTG 152678

Ryan Burfeind, Public Works Director/City Engineer
City of Cottage Grove
12800 Ravine Parkway S.
Cottage Grove, MN 55016

Dear Mr. Burfeind:

Please find enclosed the final application for payment for the referenced project. The quantities completed to date have been reviewed and we hereby recommend approval for final payment to Mineral Services Plus, LLC in the amount of $8,207.51. This amount in addition to previous payments represents 100% of the work completed and material on hand, with 0% held for retainage.

Also enclosed are the IC-134 form and Consent of Surety to Final Payment for Mineral Services Plus, LCC. No subcontractors were utilized for their work so lien waivers were not required.

The final construction cost of the project is $158,687.75 represents a $68,872.50 savings to the original contract amount of $227,560.25 and was primarily a result of the following:

1. Perforation of well casings was not required by the State of Minnesota for any wells.
2. Geologic conditions ultimately required less grouting material to seal individual wells than the original contract.
3. Tree removals, tree replacements, and final restoration quantities were less than the original contract amounts.
4. Carpentry and masonry labor for structure alterations were less than the original contract amounts.

We have reviewed work performed on this site and have found it to be acceptable. We will review again within the contract's warranty period and any issues will be addressed at that time as warranty items.

If approved, please sign and forward payment, along with a copy of the signed pay application, to Mineral Services Plus, LLC, retaining the original for City records.

Sincerely,

Chad E. Setterholm, PE
Project Manager
(Lic. MN)

Enclosures
s:\ae\c\cottg\152678\7-const-svcs\73-app-pymt\afp\well sealing_mineral svc plus\afp 4_final letter to city.docx

CITY OF COTTAGE GROVE
CITY COUNCIL
RESOLUTION NO. 2022-XXX

RESOLUTION APPROVING THE FINAL PAYMENT IN THE AMOUNT OF $8,207.51 TO MINERAL SERVICES PLUS, LLC FOR THE GRANADA AVENUE RESIDENTIAL WELL SEALING PROJECT

WHEREAS, the City Engineer has certified that work has been satisfactorily completed; and

WHEREAS, the original total contract amount was $227,560.25. The final construction cost was $158,687.75, which is $68,872.50 less than the contract amount. The reduced construction cost was primarily due to geologic conditions that required less grouting material to seal individual wells; and tree removals, tree replacements, final restoration quantities; and carpentry and masonry labor for structure alterations were less than the original contract amounts; and

WHEREAS, the project has been satisfactorily completed in accordance with the contract plans and specifications.

NOW THEREFORE BE IT RESOLVED, by the City Council of the City of Cottage Grove, County of Washington, State of Minnesota, that $8,207.51 is paid to Mineral Services Plus, LLC for the final payment for the Granada Avenue Residential Well Sealing Project.

Passed this 2nd day of March, 2022.

_____
Myron Bailey, Mayor

Attest:

_____
Joe Fischbach, City Clerk

City Council Action Request

7J

Meeting Date	3/2/2022
Department	Finance
Agenda Category	Consent Agenda
Title	General Fund Balance Designations December 31, 2021
Staff Recommendation	Receive Information on the Designated General Fund Balances at December 31, 2021.
Budget Implication	N/A
Attachments	cc memo 2021 designated fund bal.tif 180.46KB 2021 Designated fund balance.tif 215.92KB

Cottage Grove
Where Pride and Prosperity Meet

To: Mayor and City Council Members
Jennifer Levitt, City Administrator

From: Robin Roland, Finance Director

Date: February 24, 2022

Subject: Fund Balance – General Fund on December 31, 2021

Introduction

In accordance with Resolution 2011-165, the City Council is advised about the designation of fund balance and associated transfers as soon as is practical after the close of the fiscal year.

Discussion

The 2021 adopted budget anticipated a decrease of $269,950 to the General fund balance.

The revised 2021 budget which was adopted by Resolution 2021-150 reflected a potential increase of $611,880 in the fund balance, including a supplemental transfer of $170,000 to the equipment replacement fund. This anticipated increase was due to another year of significant building and development revenues.

On December 31, 2021, General Fund operating revenues are projected to be 3% greater than the revised budget. Operating expenditures are projected at 0.7% more than the revised budget. In summary, the amount of revenues more than expenditures is $1,089,820.

Please note that this information is subject to audit and is not finalized.

This increase in the fund balance allows for the following fund transfers identified by the Fund Balance policy:

Outstanding debt	$108,381
Equipment replacement	77,415
Building replacement	46,449
Future pavement management	30,966
Total	$263,211

General Fund – Fund Balance December 31, 2021, is as follows:

Non-spendable Fund Balance:	
Prepaid Items	$ 43,228
Compensated absences	1,049,891
Assigned Fund Balance:	
Designated for future budgets	500,000
School Bus safety	5,600
Set aside for staffing adjustments	100,000
2021 contributions for new K-9 in 2022	21,404
Unassigned Fund Balance (working capital)	11,335,418
	$13,055,541

Compensated absences represent outstanding annual leave amounts owed to city employees at year end. This value reflects the increase in the amount of leave employees may carry forward at year end, which was implemented in 2021.

Assignment of Fund Balance for Specific Purposes

The City Administrator and Finance Director have assigned the following balances for specific purposes under the policy.

- Since 2009, the City Council has set aside funding in an amount to balance revenues and expenditures in the General Fund if necessary. $500,000 remains assigned for use in future budgets.
- Fine revenue that is received from drivers who violate the school bus stop sign law is restricted to education programs related to traffic safety. The amount that is unspent is $5,600.
- Certain staffing adjustments were discussed after the 2022 budget was adopted. $100,000 is set aside for these unbudgeted impacts.
- The 2022 budget includes a second K-9 for the police department. In 2021, the City received a donation from the Public Safety Board ($13,904) and a grant ($7,500) from AKC Reunite to help fund the acquisition and outfitting of the new canine. This amount is also set aside for 2022.

The remaining $11,335,418 is the 55% of annual expenditures set aside for working capital as provided by the amended Fund Balance Policy. Under GASB 54, this amount is described as "Unassigned".

Action Requested

No action is required by the Council.

General Fund
Computation of Fund Balance - December 31, 2021

	2021		2020		2019		2018	
	Based on	Designated Amount	Based on	Designated Amount	Based on	Designated Amount	Based on	Designated Amount
General Fund Amount Available : *Per the preliminary financial statements*	*	$ 13,365,200	*	$ 13,456,557	*	$ 12,033,726	*	$ 11,333,891
Non Spendable Fund Balance								
Prepaid Items	Updated >>>>	43,228	Updated >>>>	21,885	Updated >>>>	33,718	Updated >>>>	15,089
Compensated Absences	Updated >>>>	1,049,891	Updated >>>>	1,001,006	Updated >>>>	927,071	Updated >>>>	877,715
	Fund Balance Amounts Assigned (GASB 54 Fund Balance Policy)		Fund Balance Amounts Assigned (GASB 54 Fund Balance Policy)		Fund Balance Amounts Assigned (GASB 54 Fund Balance Policy)		Fund Balance Amounts Assigned (GASB 54 Fund Balance Policy)	
Other Amounts as determined by City Administrator/Finance Director								
Designated for future budgets	Updated >>>>	500,000	Updated >>>>	500,000	Updated >>>>	500,000	Updated >>>>	500,000
Amounts collected for violations of "school bus arm"	Updated >>>>	5,600	Updated >>>>	5,600	Updated >>>>	5,600	Updated >>>>	5,350
Set aside for Budget gap 2021/unsettled contract 2022	Updated >>>>	100,000	Updated >>>>	262,000	Updated >>>>	-	Updated >>>>	-
2021 contributions for K-9 in 2022	Updated >>>>	21,404	Updated >>>>		Updated >>>>	-	Updated >>>>	-
Unassigned Fund Balance per GASB54 fund Balance Policy	20,609,850		18,755,185		18,266,500		17,593,800	
55% of subsequent year General Fund Expenditures 55%		11,335,418		10,315,352		10,046,575		9,676,590
Total		13,055,541		12,105,843		11,512,964		11,074,744
Amounts in excess of fund balance policy - available for transfer		309,660		1,350,714		520,762		259,147
Budget Carryovers	0%	-	0%	-	0%	-	0%	-
Outstanding debt	35%	108,381	35%	472,750	35%	182,267	35%	90,701
Equipment Replacement	25%	77,415	25%	337,679	25%	130,191	25%	64,787
Building Replacement	15%	46,449	15%	202,607	15%	78,114	15%	38,872
Future Pavement Mgmt	10%	30,966	10%	135,071	10%	52,076	10%	25,915
Transferred to other funds		263,211		1,148,107		442,648		220,275
Remaining	Unassigned	46,449	Unassigned	202,607	Unassigned	78,114	Unassigned	38,872
Remaining year-end General Fund - Fund Balance		$ 13,101,989		$ 12,308,450		$ 11,591,078		$ 11,113,616

City Council Action Request

7K

Meeting Date	3/2/2022
Department	Parks and Recreation
Agenda Category	Consent Agenda
Title	MN DNR Outdoor Recreation Grant Application – Mississippi Dunes Land Acquisition
Staff Recommendation	Adopt Resolution 2022-032 to apply for the MN Department of Natural Resources Outdoor Recreation Grant Program for up to $300,000 to be used for public park and open space land acquisition at Mississippi Dunes.
Budget Implication	Up to $150,000 cash match for $300,000 grant.
Attachments	Council Memo-Outdoor Grant Dunes.tif 3.2MB Resolution-Outdoor Rec Grant.tif 4.79MB

Cottage Grove
Where Pride and Prosperity Meet

To:	Honorable Mayor and City Council
From:	Zac Dockter, Parks and Recreation Director
CC:	Jennifer Levitt, City Administrator
Date:	February 25, 2022
Subject:	MN DNR Outdoor Recreation Grant Application – Mississippi Dunes Land Acquisition

---

Introduction/Background
The MN Department of Natural Resources has established the Outdoor Recreation Grant program to increase and enhance outdoor recreation facilities in local and community parks throughout the state. The grant provides local units of government up to 50% of the cost of acquisition and development of local parks and recreation areas. Parks and Recreation staff believes the park land acquisition effort at Mississippi Dunes meets all grant requirements and would be a good candidate for application.

Background
The City Council authorized the Mississippi Dunes master plan in December of 2021. Since that time staff has been working to find partners in acquiring park and open space property to fulfill this vision. The Outdoor Recreation grant awards financial assistance up to $300,000. A 50% cash match ($150,000) is required to receive full funding. Staff is coordinating efforts with Washington County to be a potential matching source for this grant opportunity.

Recommendation
Authorize resolution to apply for the MN Department of Natural Resources Outdoor Recreation Grant Program for up to $300,000 to be used for public park and open space land acquisition at Mississippi Dunes.

RESOLUTION NO. 2022-
MN Department of Natural Resources Outdoor Recreation Grant for Mississippi Dunes Land Purchase

BE IT RESOLVED that the City of Cottage Grove act as legal sponsor for the project contained in the Outdoor Recreation grant application to be submitted on March 31, 2022 and that Zac Dockter is hereby authorized to apply to the Department of Natural Resources for funding of this project on behalf of the City of Cottage Grove.

BE IT FURTHER RESOLVED that the applicant has read the Conflict of Interest Policy contained in the Outdoor Recreation Grant Program Manual and, upon discovery, certifies it will report any actual, potential, perceived individual or organizational conflicts of interest upon discovery to the related to the application or a grant award to the State.

BE IT FURTHER RESOLVED that the City of Cottage Grove has the legal authority to apply for financial assistance, and it has the financial capability to meet the match requirement (if any) and ensure adequate construction, operation, maintenance and replacement of the proposed project for its design life.

BE IT FURTHER RESOLVED that the City of Cottage Grove has not incurred any development costs and has not entered into a written purchase agreement to acquire the property described in the Cost Breakdown section on this application.

BE IT FURTHER RESOLVED that the City of Cottage Grove has or will acquire fee title or permanent easement over the land described in the site plan included in the application.

BE IT FURTHER RESOLVED that, upon approval of its application by the State, the City of Cottage Grove may enter into an agreement with the State for the above-referenced project, and that the City of Cottage Grove certifies that it will comply with all applicable laws and regulations as stated in the grant agreement including dedicating the park property for uses consistent with the funding grant program into perpetuity.

NOW, THEREFORE BE IT RESOLVED that Mayor Myron Bailey is hereby authorized to execute such agreements as are necessary to implement the project on behalf of the applicant.

I CERTIFY THAT the above resolution was adopted by the City of Cottage Grove City Council of the City of Cottage Grove on March 2, 2022.

_____
Myron Bailey, Mayor

Attest:

_____
Joe Fischbach, City Clerk

City Council Action Request

7L

Meeting Date	3/2/2022
Department	Community Development
Agenda Category	Consent Agenda
Title	Approval of Rental Licenses
Staff Recommendation	Approve the issuance of rental licenses to the properties listed in the attached table.
Budget Implication	N/A
Attachments	Rental License Approvals CC Memo.tif 2.22MB Rental License Approvals Table.tif 363.59KB

Cottage Grove
Where Pride and Prosperity Meet

TO: Honorable Mayor and City Council
Jennifer Levitt, City Administrator

FROM: Conner Jakes, Code Enforcement Officer

DATE: February 25, 2022

RE: Rental License Approvals

Background/Discussion

Rental licenses are required for nonowner-occupied residential properties (City Code Title 9-13, Property Maintenance, and Title 9-14, Rental Licensing) and are issued on a biennial basis. The licensing process includes submittal of the rental license application, payment of $180, and public criminal history report. Rental inspections are conducted on all rental properties as part of the licensing process. Once all information has been submitted and the inspection satisfactorily completed, the Council must approve the license prior to it being issued.

The properties listed in the attached table have completed the licensing process and are ready to have their licenses issued following Council approval.

Recommendation

Approve the issuance of rental licenses to the properties in the attached table.

2022 RENTAL LICENSES
CITY COUNCIL APPROVAL - MARCH 2, 2022

RENTAL LICENSE NUMBER	PROPERTY STREET #	PROPERTY STREET NAME	PROPERTY OWNER
RENT-001126-2021	8964	92ND STREET SOUTH	ADESOJI AWE
RENT-001076-2021	6862	MEADOW GRASS LANE SOUTH	AGUIRRE, JOSE
RENT-001079-2021	8830	92ND STREET SOUTH	AGUIRRE, JOSE C
RENT-001080-2021	8715	IVYWOOD AVENUE SOUTH	AGUIRRE, JOSE C
RENT-001183-2022	9482	72ND STREET SOUTH	AMLAND, PATRICIA
RENT-001181-2022	8466	HADLEY AVENUE SOUTH	BRISSON, JASON
RENT-001102-2021	9227	73RD STREET SOUTH	DANIEL, ANTHONY/ROCHELLE
RENT-001083-2021	6840	MEADOW GRASS LANE SOUTH	FLAIM, DENISE
RENT-001140-2022	9116	INDIAN BOULEVARD SOUTH	GREGERSON, MICHAEL
RENT-001094-2021	9209	JEFFERY AVENUE SOUTH	HENNEPIN RP FUNDING LLC
RENT-001196-2022	7124	JONATHAN AVENUE SOUTH	HP MINNESOTA I LLC
RENT-001197-2022	9826	74TH STREET CIRCLE SOUTH	HPA BORROWER 2018-1 MS LLC
RENT-001042-2021	9501	ISLAY AVENUE SOUTH	HUNTER, JAMES
RENT-001162-2022	8461	75TH STREET SOUTH	JOHNSON, KATHERINE
RENT-001163-2022	8655	81ST STREET SOUTH	JOHNSON, KATHERINE
RENT-001164-2022	8313	FOOTHILL ROAD SOUTH	JOHNSON, KATHERINE
RENT-000989-2021	6401	HEDGECROFT AVENUE SOUTH	KHAN, AHSAN & SAIRA
RENT-001072-2021	8007	JEWEL AVENUE SOUTH	KIGNER, JONATHAN
RENT-001073-2021	6682	HYDE AVENUE SOUTH	KIGNER, JONATHAN
RENT-000993-2021	7676	IRISH AVENUE SOUTH	KLEIN, TOM
RENT-001004-2021	8837	92ND STREET SOUTH	LIU, LING
RENT-000997-2021	7994	EAST POINT DOUGLAS ROAD SOUTH	LONG, THOMAS
RENT-000996-2021	7187	IMPERIAL AVENUE SOUTH	LONG, THOMAS J
RENT-001081-2021	6729	99TH STREET SOUTH	MOOSEY, CHRISTOPHER AND MICHELLE
RENT-001202-2022	7571	IMMANUEL AVENUE SOUTH	OLAYINKA, VICTORIA
RENT-001147-2022	6859	PINE CREST TRAIL SOUTH	PEDERSON HOLDINGS LLC
RENT-001156-2022	8500	ISLE AVENUE SOUTH	RAMEY, MICHAEL OR DIANE
RENT-001159-2022	7097	IRVIN AVENUE SOUTH	RUSSELL, KENNETH/JEANNE
RENT-001154-2022	6749	PINE CREST TRAIL SOUTH	SCHMIDTKE, NATHAN
RENT-001177-2022	6764	PINE CREST TRAIL SOUTH	SCHOPF, CHERYL
RENT-001089-2021	7791	HEMINGWAY AVENUE SOUTH	SINGH, HARDEV
RENT-000970-2021	6835	PINE CREST TRAIL SOUTH	STRAND, TARA
RENT-001024-2021	7831	HEMINGWAY AVENUE SOUTH	WAGNER, ROBERT
RENT-001170-2022	8119	HENSLOWE AVENUE SOUTH	WAHLIN, TAVIFA
RENT-001088-2021	7630	79TH STREET SOUTH	WATURUOCHA, CHIKEZIE
RENT-001097-2021	8896	92ND STREET SOUTH	XU &XIA, DAI & JIANHUI
RENT-001031-2021	8990	92ND STREET SOUTH	ZHU, WENJIE

City Council Action Request

7M

Meeting Date	3/2/2022
Department	Public Works
Agenda Category	Consent Agenda
Title	Goodview Avenue Water Main Extension Project – Approve Plans and Specifications and Establish a Bid Date
Staff Recommendation	Adopt Resolution 2022-030 approving the plans and specifications and establishing a March 24, 2022 bid date for the Goodview Avenue Water Main Extension Project.
Budget Implication	$2,133,000 - 3M Settlement Agreement

Attachments

Goodview Ave Water Main CC Memo.tif	7.44MB
Goodview Ave Water Main Resolution.tif	2.06MB
Goodview Ave Water Main Plans & Specs.tif	164.06MB

To: Honorable Mayor and City Council
Jennifer Levitt, City Administrator

From: Ryan Burfeind, P.E., Public Works Director/City Engineer

Date: March 2, 2022

Re: Goodview Avenue Water Main Extension Project – Approve Plans and Specifications and Establish a Bid Date

---

Background

On August 2, 2021, the City entered into a grant agreement with the Minnesota Pollution Control Agency (MPCA) for the Goodview Avenue Water Main Extension Project. This agreement secured funding through the 3M Settlement Agreement to extend water service to the 42 properties in the Goodview Avenue neighborhood. A neighborhood meeting was held on September 16, 2021, with 15 of the properties represented at the meeting, to discuss the project in further detail with the property owners.

The Goodview Avenue neighborhood has 5 of the 35 existing wells (that have been tested), testing over the Health Based Values (HBVs) for PFAS. Thirteen of the existing wells have tested to be above 0.5 of the HBV, which is the target to stay below for the City going forward. The wells that are over the HBVs currently have whole house granular activated carbon (GAC) filters provided by the MPCA. The water main extension project for this neighborhood was included by the State in the Conceptual Drinking Water Supply Plan due to the high level of PFAS in the wells and the amount of 3M funding that the State needs to spend per year to treat and monitor these wells. Additionally, as long as residents are on private wells, they need to continue to spend money to maintain them even though they are contaminated.

Discussion

Summary of Improvements

The proposed project includes extending watermain throughout the Goodview Avenue neighborhood, north and south of 70th Street and along 70th Street, through a connection point at the 70th Street/Goodview Avenue intersection. Watermain will be extended from Granada Avenue along 70th Street to approximately 1,000 feet west of the intersection with Goodview Avenue. Services would then be provided to each property, modifications would be completed within the home to convert the service from private well to City water, and the private well would be sealed. Additionally, fire hydrants would be added to this neighborhood to increase fire safety and allow for proper annual maintenance/flushing of the system. The well sealing part of the project will be bid separately due to the different nature of that work. Typically for a water main extension project, a property owner would be assessed all costs to connect to City water; however, these connections will come at no cost with this grant funding.

Plans and Specifications

Plans and specifications have been prepared in accordance with City standards and specifications. The engineer's estimate for the construction of the improvements is $2,133,000. The costs outlined for the specific improvements will be fully funded through the 3M Settlement Agreement.

Bid Date

A bid date of March 24, 2022, at 11:00 a.m. will provide ample time to provide required notification to contractors. A pre-bid meeting will also be held to allow contractors to ask clarifying questions prior to bidding.

Recommendation

It is recommended that the City Council adopt the attached resolution approving the plans and specifications and establishing a March 24, 2022 bid date for the Goodview Avenue Water Main Extension Project.

CITY OF COTTAGE GROVE, MINNESOTA
CITY COUNCIL
RESOLUTION 2022-XXX

RESOLUTION APPROVING THE PLANS AND SPECIFICATIONS AND ESTABLISHING A BID DATE FOR THE GOODVIEW AVENUE WATER MAIN EXTENSION PROJECT

WHEREAS, plans and specifications have been prepared in accordance with the City Standards and Specifications for the Goodview Avenue Water Main Extension Project; and

WHEREAS, a bid date has been established for March 24, 2022; and

WHEREAS, the City Engineer has presented such plans and specifications to the City Council for approval.

NOW, THEREFORE, BE IT RESOLVED, the City Council of the City of Cottage Grove, County of Washington, State of Minnesota, approves the plans and specifications and establishes a bid date of March 24, 2022, for the Goodview Avenue Water Main Extension Project.

Passed this 2nd day of March, 2022.

_____
Myron Bailey, Mayor

Attest:

_____
Joe Fischbach, City Clerk

EXISTING

- RIGHT OF WAY
- PERMANENT EASEMENT
- PROPERTY LINE
- HORIZONTAL CONTROL POINT
- BENCHMARK
- SURVEY MARKER
- SOIL BORING
- SANITARY SEWER AND MANHOLE
- FORCE MAIN AND LIFT STATION
- SANITARY SEWER SERVICE & CLEANOUT
- WATER MAIN, HYDRANT, VALVE AND MANHOLE
- WATER SERVICE AND CURB STOP BOX
- STORM SEWER, MANHOLE AND CATCH BASIN
- CULVERT AND APRON ENDWALL
- GAS MAIN, VALVE, VENT AND METER
- HANDHOLE
- BURIED FIBER OPTIC CABLE AND MANHOLE
- BURIED PHONE CABLE, PEDESTAL AND MANHOLE
- BURIED TV CABLE, PEDESTAL AND MANHOLE
- BURIED ELECTRIC CABLE, PEDESTAL, MANHOLE, TRANSFORMER AND METER
- OVERHEAD WIRE, POLE AND GUY WIRE
- LIGHT POLE
- TRAFFIC SIGNAL
- STREET NAME SIGN
- SIGN (NON STREET NAME)
- RAILROAD TRACKS
- DECIDUOUS AND CONIFEROUS TREE
- BUSH / SHRUB AND STUMP
- EDGE OF WOODED AREA
- WETLAND
- BUILDING
- FENCE (UNIDENTIFIED)
- BARBED WIRE FENCE
- CHAIN LINK FENCE
- ELECTRIC WIRE FENCE
- WOOD FENCE
- WOVEN WIRE FENCE
- PLATE BEAM GUARDRAIL
- CABLE GUARDRAIL
- POST / BOLLARD
- RETAINING WALL

PROPOSED

- STREET CENTERLINE
- RIGHT-OF-WAY
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- CONSTRUCTION LIMITS
- SANITARY SEWER, BULKHEAD AND MANHOLE
- FORCE MAIN
- SANITARY SERVICE AND CLEANOUT
- WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE
- WATER VALVE MANHOLE, REDUCER, BEND AND CROSS
- WATER SERVICE AND CURB STOP BOX
- STORM SEWER, MANHOLE AND CATCH BASIN
- CULVERT AND APRON ENDWALL
- DRAIN TILE
- DITCH / SWALE
- RIPRAP
- STREET NAME SIGN
- SIGN (NON STREET NAME)
- RETAINING WALL

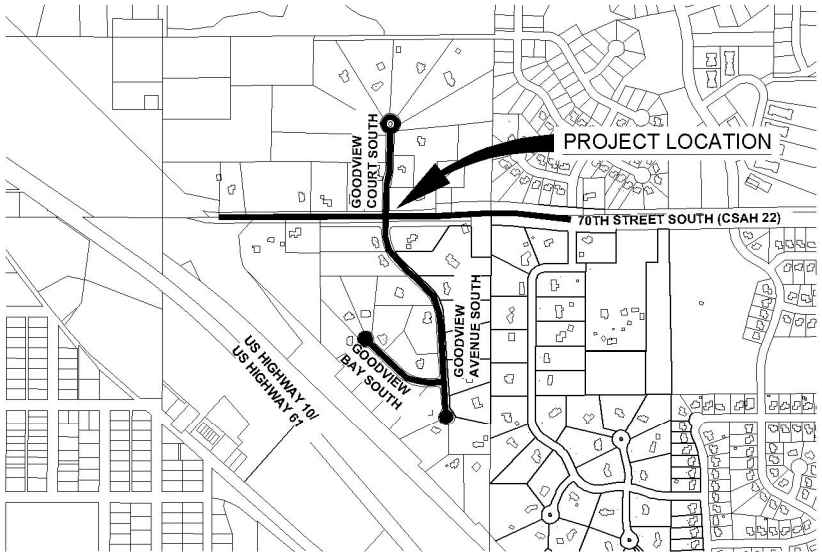
CITY OF COTTAGE GROVE, MINNESOTA

CONSTRUCTION PLANS FOR

WATERMAIN, WATER SERVICE BORING, CONCRETE CURB & GUTTER BITUMINOUS, AGGREGATE BASE, RESTORATION

GOODVIEW AVENUE WATER MAIN EXTENSION IMPROVEMENTS

CITY PROJECT NO. 162976



N

N.T.S.

NOTE:
THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

THE CONTRACTOR SHALL CALL THE GOPHER STATE ONE CALL SYSTEM AT 811 BEFORE COMMENCING EXCAVATION.

811 Know what's below. Call before you dig.

GOVERNING SPECIFICATIONS

THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN EXCEPT AS MODIFIED BY THE SPECIFICATIONS FOR THIS PROJECT.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	CONSTRUCTION NOTES
3-12	DETAILS
13	ALIGNMENT PLAN
14-15	TYPICAL SECTIONS
16-19	TRAFFIC CONTROL & DETOUR PLAN
20-23	REMOVALS
24-31	PLAN & PROFILE
32-40	WATERMAIN SERVICE PLAN
41-44	EROSION CONTROL AND TURF ESTABLISHMENT
45-46	SWPPP
47	RESIDENTIAL WELL INFORMATION
48-54	RESIDENTIAL WELL PICTURES

THIS PLAN CONTAINS 54 SHEETS.

PROJECT LOCATION



CITY OF COTTAGE GROVE, WASHINGTON COUNTY

MYRON BAILEY - MAYOR
STEVE DENNIS - COUNCIL MEMBER
DAVE THIEDE - COUNCIL MEMBER
TONY KHAMBATA - COUNCIL MEMBER
JUSTIN OLSEN - COUNCIL MEMBER
JENNIFER LEVITT - CITY ADMINISTRATOR
RYAN BURFEIND - CITY ENGINEER/PUBLIC WORKS DIRECTOR
KORINE LAND - ATTORNEY

COTTAGE GROVE, MINNESOTA

SEH
PHONE: 651.490.2000
3535 VADNAIS CENTER DRIVE
ST. PAUL, MN 55110-5196
www.sehinc.com

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

CHAD E. SETTERHOLM, PE
Signature
Date: 02/25/2022 Lic. No. 40913

FILE NO. 162976

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CONSTRUCTION NOTES

ANY USE OF TRENCH BOX, SHEETING, SHORING OR OTHER METHODS OR MEANS OF CONSTRUCTION NECESSARY TO COMPLETE CONSTRUCTION WITHIN THE CONSTRUCTION LIMITS OR SLOPE EASEMENTS SHOWN WILL BE CONSIDERED TO BE INCIDENTAL AND NO DIRECT COMPENSATION WILL BE MADE THEREFORE.

COMPACTION OF GRADING ITEMS, INCLUDING AGGREGATE BASE, SHALL BE ACCOMPLISHED BY THE "QUALITY COMPACTION METHOD".

BACKFILLING OF CURBS WITH ON-SITE MATERIAL IS INCIDENTAL TO CURB CONSTRUCTION.

WHEN CONNECTION TO EXISTING BITUMINOUS PAVEMENT IS REQUIRED, THE EDGE OF EXISTING PAVEMENT SHALL BE CUT TO A NEAT LINE.

PROVIDE FOR A UNIFORM BITUMINOUS TACK COAT BETWEEN ALL COURSES. THE TACK COAT SHALL BE IN ACCORDANCE WITH MN/DOT SPECIFICATION 2357 WITH THE FOLLOWING MODIFICATIONS:

1. THE TACK COAT SHALL CONSIST OF EMULSIFIED ASPHALT (CSS-1 OR CSS-1H) AND SHALL BE APPLIED TO THE MILLED BITUMINOUS SURFACE AND BETWEEN ALL NEWLY CONSTRUCTED COURSES.

2. THE TACK COAT BETWEEN BITUMINOUS LIFTS SHALL BE APPLIED AT A UNIFORM RATE OF 0.08 GALLONS PER SQUARE YARD BETWEEN BITUMINOUS LAYERS. THE APPLICATION RATES ARE BASED ON DILUTED TACK MATERIAL.

WATER, GAS, ELECTRIC, TELEPHONE, SEWER, AND TV CABLE LINES SHOWN ON THE DRAWINGS AND CROSS-SECTIONS ARE PLOTTED FROM THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION, BUT MAY NOT REFLECT ACTUAL LOCATIONS OR ELEVATIONS. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES BEFORE BEGINNING CONSTRUCTION WHICH MAY BE AFFECTED BY A UTILITY CONFLICT. THE CONTRACTOR SHALL GIVE 48 HOURS NOTICE TO THE OWNERS OF ALL KNOWN UTILITIES BEFORE STARTING ANY OPERATIONS AFFECTING THOSE PROPERTIES, OR BEGINNING EXCAVATION IN THE VICINITY OF THOSE PROPERTIES. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 1507 IN THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS HEREBY REMINDED OF HIS RESPONSIBILITY UNDER STATE LAW TO CONTACT ALL UTILITIES THAT MAY HAVE FACILITIES IN THE AREA. CONTACT MUST BE MADE THROUGH GOPHER STATE ONE-CALL.

ALL USES OF THE WORD "INCIDENTAL" IN THESE CONSTRUCTION DOCUMENTS SHALL BE CONSTRUED TO MEAN INCIDENTAL WORK FOR WHICH NO DIRECT COMPENSATION SHALL BE MADE.

(P) DENOTES A PLAN QUANTITY ITEM

CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL EROSION CONTROL MEASURES AS SHOWN ON THESE PLANS AND SPECIFICATION, AND WILL IMPLEMENT ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY, OR AS DIRECTED BY ENGINEER, IN ORDER TO PROTECT ADJACENT PROPERTY.

ALL DIMENSIONS SHALL BE TO FACE OF CURB UNLESS STATED OTHERWISE.

TOP OF GRADING GRADE

TOP OF "GRADING GRADE" IS HEREBY DEFINED AS THE TOP OF THE SELECT GRANULAR MATERIAL OR THE BOTTOM OF THE AGGREGATE BASE.

SUITABLE MATERIALS

SUITABLE MATERIALS SHALL BE ALL GRANULAR SOILS ENCOUNTERED ON THE PROJECT FROM BORROW, NOT DEFINED AS BEING UNSUITABLE BY THE ENGINEER, EXCEPT THAT ONLY SELECT GRANULAR MATERIAL SHALL BE USED WHERE SPECIFIED AS SUCH IN THE PLANS.

UNSUITABLE MATERIALS

UNSUITABLE MATERIALS ARE ALL MATERIALS DETERMINED BY THE ENGINEER AS BEING UNSUITABLE FOR GRANULAR BORROW OR STRUCTURAL BACKFILL FOR ROADWAY CONSTRUCTION.

PROVIDE FOR THE REMOVAL AND DISPOSAL, OUTSIDE THE CONSTRUCTION ZONE, OF ANY INPLACE SURFACING OR OTHER STRUCTURES THAT WOULD INTERFERE WITH CONSTRUCTION. ALL SUCH MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL EITHER BE RECYCLED TO THE EXTENT ALLOWED OR DISPOSED OF OUTSIDE THE RIGHT OF WAY IN ACCORDANCE WITH SPECIFICATION 2104.3C. PROVIDE FOR SAW CUTTING AS DEEMED NECESSARY BY THE DESIGNER.

ALL EXCAVATED MATERIAL SHALL BE USED ONSITE FOR BORROW ITEMS IF MEETS GRADATION REQUIREMENTS UNLESS DIRECTED OTHERWISE BY THIS PLAN OR AS DIRECTED BY THE ENGINEER.

IN FILL SECTIONS, TOPSOIL AND OTHER UNSUITABLE MATERIALS SHALL BE ELIMINATED FROM THE UPPER 3 FEET OF THE "GRADING GRADE" BENEATH THE ROADWAY AS DIRECTED BY THE ENGINEER.

TEST ROLLING WILL BE REQUIRED ON THIS PROJECT.

PLACE A MINIMUM OF 0.5 FEET OF LOAM TOPSOIL BORROW ON ALL AREAS SCHEDULED FOR TURF RESTORATION. SEE MNDOT SPECIFICATION 3877.

USE SEED MIXTURE 25-151 FOR RESIDENTIAL TURF RESTORATION. USE SEED MIXTURE 25-141 FOR GENERAL ROADSIDE TURF RESTORATION.

FERTILIZE ALL AREAS TO BE RESTORED WITH SEED.

THE CONTRACTOR SHALL LIMIT EQUIPMENT USE AND NUMBER OF ACCESS ROUTES ON PRIVATE PROPERTY TO COMPLETE THE PROJECT WITH MINIMAL DISTURBANCE WHERE PRACTICAL. ANY DAMAGE TO PRIVATE PROPERTY, TURF AND/OR OTHER DRIVING SURFACES DEEMED UNNECESSARY BY THE ENGINEER SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL PROTECT ANY NEWLY CONSTRUCTED ASPHALT SURFACE FROM DAMAGE DURING UTILITY INSTALLATION. ANY DAMAGE DEEMED UNNECESSARY BY THE ENGINEER SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE. THE DEFINITION OF DAMAGE SHALL INCLUDE, BUT IS NOT LIMITED TO: GOUGES, DENTS, PERMANENT SCRAPES, CRACKING OR ANY OTHER PHYSICAL OR VISIBLE CHANGE FROM THE SURFACE'S PREVIOUS CONDITION CAUSED BY THE CONSTRUCTION PROCESS.

THE CONTRACTOR SHALL SUPPLY "AS-BUILT" INFORMATION OF WATER SERVICES INCLUDING LENGTH AND LOCATION.

CONCRETE DRIVEWAY PAVEMENT (HIGH EARLY) - CONTRACTOR SHALL POUR CONCRETE DRIVEWAYS IN HALVES TO MAINTAIN CONTINUOUS ACCESS TO HOMES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

COMMON EXCAVATION BREAKDOWN

COMMON EXCAVATION (CY) (P) = 4100 CY
- 1167 CY - 70TH ST SOUTH
- 1528 CY - GOODVIEW AVE SOUTH
- 668 CY - GOODVIEW CT SOUTH
- 737 CY - GOODVIEW BAY SOUTH

THE FOLLOWING STANDARD PLATES APPROVED BY THE DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT.

STANDARD PLATES

3000L	REINFORCED CONCRETE PIPE (5 SHEETS)
3006G	GASKET JOINT FOR R.C. PIPE (2 SHEETS)
3007D	SHEAR REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES
4006L	MANHOLE OR CATCH BASIN PRECAST - DESIGNS G AND H
4010H	CONCRETE SHORT CONE & ADJUSTING RING (SECTIONAL CONCRETE)
4020J	MANHOLE OR CATCH BASIN (FOR USE WITH OR WITHOUT TRAFFIC LOADS) (2 SHEETS)
4101D	RING CASTING FOR MANHOLE OR CATCH BASIN
4110F	COVER CASTING FOR MH (FOR USE IN ALL TRAFFIC AREAS) - CASTING NO. 715 & 716
7036F	PEDESTRIAN CURB RAMP (FOR THE HANDICAPPED) (12 SHEETS)
7100H	CONCRETE CURB AND GUTTER DESIGN B & V
7111J	INSTALLATION OF CATCH BASIN CASTINGS (CONCRETE CURB AND GUTTER)
8000I	STANDARD BARRICADES

KNOWN PRIVATE UTILITIES WITHIN THE PROJECT AREA:

COMCAST (COMM.)
CENTURYLINK (COMM.)
XCEL ENERGY (ELECTRIC)
XCEL ENERGY (GAS)
ZAYO (COMM.)

BASIS OF ESTIMATED QUANTITIES

SELECT GRANULAR BORROW	140 #/CF
TYPE SP 9.5 WEARING COURSE	113 #/SY/INCH
TYPE SP 12.5 NON-WEARING COURSE	113 #/SY/INCH
BITUMINOUS MATERIAL FOR TACK COAT	0.08 GAL/S.Y.
MULCH MATERIAL TYPE 6	80 CY/ACRE
COMM. FERT. ANALYSIS 25-5-10	400 #/ACRE
SEED MIXTURE 25-151	300 #/ACRE
SEED MIXTURE 25-141	59 #/ACRE

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SEH Project 162976
Drawn By DSJ, JPS
Designed By CES
Checked By BSS, DSJ JPS

Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date

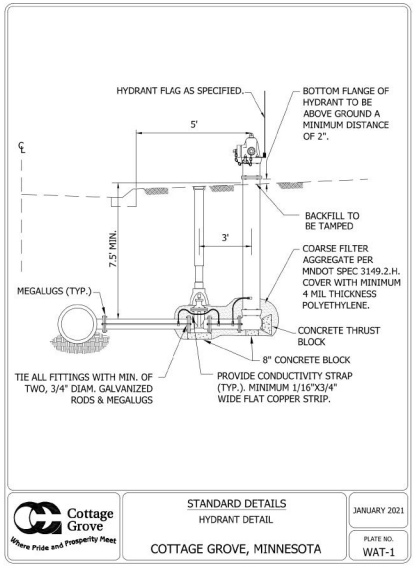
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CHAD E. SETTERHOLM, PE

DATE 02/25/2022 LICENSE NO. 40913

COTTAGE GROVE, MINNESOTA

CONSTRUCTION NOTES
GOODVIEW AVENUE WATER MAIN EXTENSION

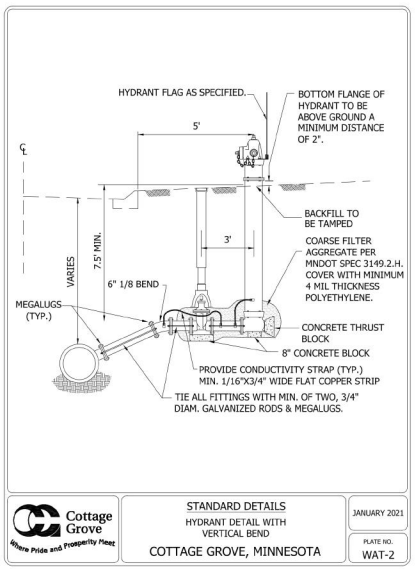


Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
HYDRANT DETAIL
COTTAGE GROVE, MINNESOTA

JANUARY 2021
PLATE NO. WAT-1

48_WAT1.DWG

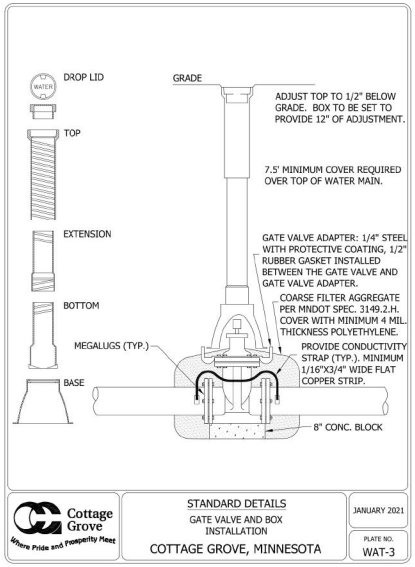


Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
HYDRANT DETAIL WITH VERTICAL BEND
COTTAGE GROVE, MINNESOTA

JANUARY 2021
PLATE NO. WAT-2

48_WAT2.DWG



Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
GATE VALVE AND BOX INSTALLATION
COTTAGE GROVE, MINNESOTA

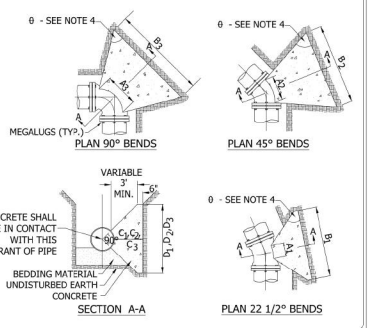
JANUARY 2021
PLATE NO. WAT-3

48_WAT3.DWG

NOTES:
1. SHAPE OF BACK OF BUTTRESS MAY VARY AS LONG AS POURED AGAINST FIRM UNDISTURBED EARTH.
2. DIMENSION C1,C2,C3 SHOULD BE LARGE ENOUGH TO MAKE ANGLE θ EQUAL TO OR LARGER THAN 45°.
3. DIMENSION A1,A2,A3 SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH MJ BOLTS.
4. θ = 45° MINIMUM.
5. PLACE POLYETHYLENE BETWEEN CONCRETE & PIPE.

BUTTRESS DIMENSIONS

PIPE	22 1/2° BEND		45° BEND		90° BEND	
SIZE	B_1	D_1	B_2	D_2	B_3	D_3
6"	--	--	--	--	2'-1"	1'-6"
8"	--	--	--	--	2'-8"	2'-0"
12"	1'-10"	1'-10"	3'-4"	2'-0"	4'-9"	2'-6"
16"	3'-0"	2'-0"	3'-10"	3'-0"	6'-2"	3'-6"
20"	3'-6"	2'-8"	5'-6"	3'-4"	8'-4"	4'-0"
24"	4'-4"	3'-0"	6'-10"	3'-10"	9'-8"	5'-0"
30"	--	--	9'-3"	6'-0"	17'-0"	6'-0"

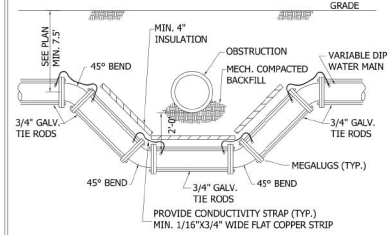


Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
CONCRETE THRUST BLOCKING
COTTAGE GROVE, MINNESOTA

JANUARY 2021
PLATE NO. WAT-6

48_WAT6.DWG

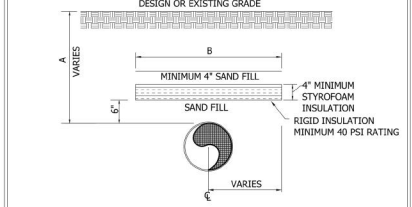


Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
WATER MAIN OFFSET
COTTAGE GROVE, MINNESOTA

LAST REVISION: FEBRUARY 2018
PLATE NO. WAT-7

48_WAT7.DWG



PIPE SHALL BE CENTERED UNDER INSULATION UNLESS OTHERWISE SPECIFIED.

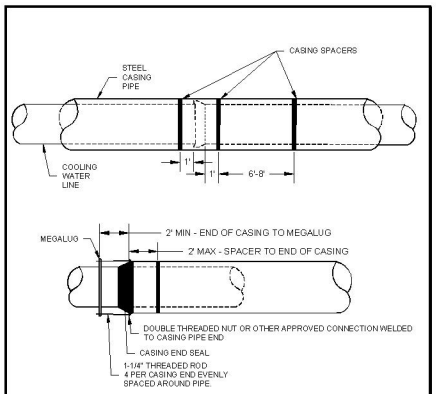
COVER OVER PIPE - A	WIDTH OF INSULATING BOARD - B
2'	11'
3'	9'
4'	7'
5'	5'
6'	3'

Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
INSULATION DETAIL
COTTAGE GROVE, MINNESOTA

JANUARY 2021
PLATE NO. WAT-9

48_WAT9.DWG



CASING SPACERS: CCI PIPELINE SYSTEMS MODEL CSS12 OR APPROVED EQUAL

CASING END SEAL: CCI PIPELINE SYSTEMS MODEL ESW WRAPAROUND END SEAL OR APPROVED EQUAL

SEH

WATER CASING PIPE DETAIL

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SEH Project	162976
Drawn By	DSJ, JPS
Designed By	CES
Checked By	BSS, DSJ JPS

Rev.#	Revision Issue Description	Date
Rev.#	Revision Issue Description	Date

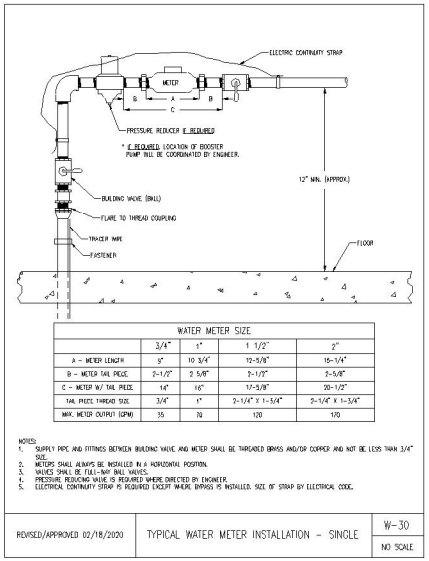
HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

CHAD E. SETTERHOLM, PE

DATE 02/25/2022 LICENSE NO. 40913

COTTAGE GROVE, MINNESOTA

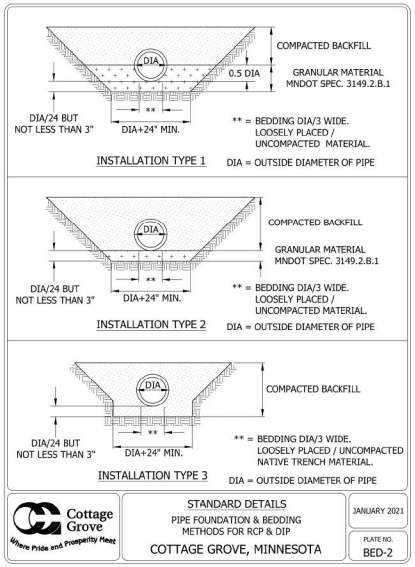
DETAILS
GOODVIEW AVENUE WATER MAIN EXTENSION



WATER METER SIZE				
	3/4"	1"	1 1/2"	2"
A – METER LENGTH	9"	10 3/4"	12-5/8"	15-1/4"
B – METER TAIL PIECE	2-1/2"	2 5/8"	2-1/2"	2-5/8"
C – METER W/ TAIL PIECE	14"	16"	17-5/8"	20-1/2"
TAIL PIECE THREAD SIZE	3/4"	1"	2-1/4" X 1-3/4"	2-1/4" X 1-3/4"
MAX. METER OUTPUT (GPM)	35	70	120	170

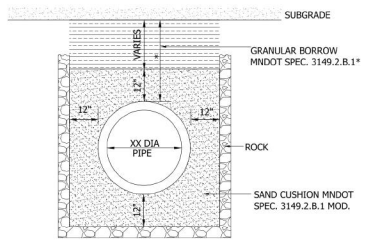
NOTES:
1. SUPPLY PIPE AND FITTINGS BETWEEN BUILDING VALVE AND METER SHALL BE THREADED BRASS AND/OF COPPER AND NOT BE LESS THAN 3/4" SIZE.
2. METERS SHALL ALWAYS BE INSTALLED IN A HORIZONTAL POSITION.
3. VALVES SHALL BE FULL-WAY BALL VALVES.
4. PRESSURE REDUCING VALVE IS REQUIRED WHERE DIRECTED BY ENGINEER.
5. ELECTRICAL CONTINUITY STRAP IS REQUIRED EXCEPT WHERE BYPASS IS INSTALLED. SIZE OF STRAP BY ELECTRICAL CODE.

REVISED/APPROVED 02/18/2020	TYPICAL WATER METER INSTALLATION – SINGLE	W-30 NO SCALE



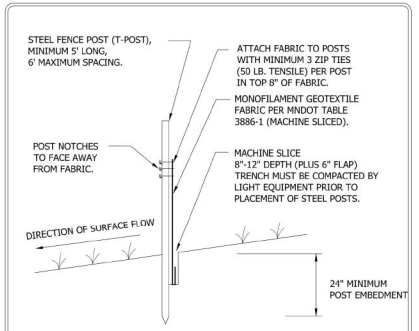
Cottage Grove – Where Pride and Prosperity Meet	STANDARD DETAILS PIPE FOUNDATION & BEDDING METHODS FOR RCP & DIP COTTAGE GROVE, MINNESOTA	JANUARY 2021 PLATE NO. BED-2

48_BED2.DWG



Cottage Grove – Where Pride and Prosperity Meet	STANDARD DETAILS PVC, RCP AND DIP PIPE BEDDING IN ROCK COTTAGE GROVE, MINNESOTA	JANUARY 2021 PLATE NO. BED-4

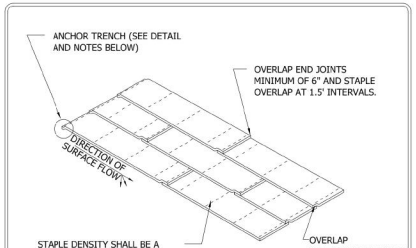
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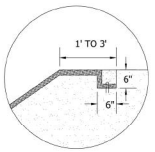
NOTE:
HEAVY-DUTY SILT FENCE INSTALLATION METHODS SHOULD BE USED WHEN DIRECTED BY THE CITY.

Cottage Grove – Where Pride and Prosperity Meet	STANDARD DETAILS MACHINE SLICED SILT FENCE COTTAGE GROVE, MINNESOTA	JANUARY 2021 PLATE NO. ERO-1

48_ERO1.DWG

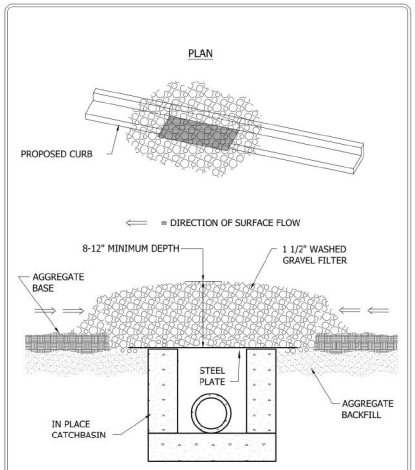


ANCHOR TRENCH
1. DIG 6" X 6" TRENCH
2. LAY BLANKET IN TRENCH
3. STAPLE AT 1.5' INTERVALS
4. BACKFILL WITH NATURAL SOIL AND COMPACT
5. BLANKET LENGTH SHALL NOT EXCEED 100' WITHOUT AN ANCHOR TRENCH



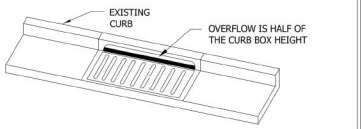
Cottage Grove – Where Pride and Prosperity Meet	STANDARD DETAILS EROSION CONTROL BLANKET INSTALLATION COTTAGE GROVE, MINNESOTA	JANUARY 2021 PLATE NO. ERO-5

48_ERO5.DWG

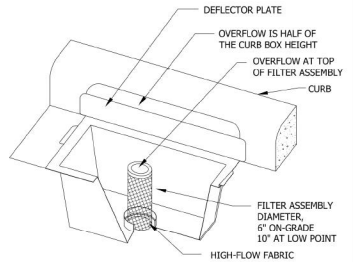


Cottage Grove – Where Pride and Prosperity Meet	STANDARD DETAILS INLET PROTECTION ROCK FILTER FOR CATCH BASIN COTTAGE GROVE, MINNESOTA	JANUARY 2021 PLATE NO. ERO-8

48_ERO8.DWG

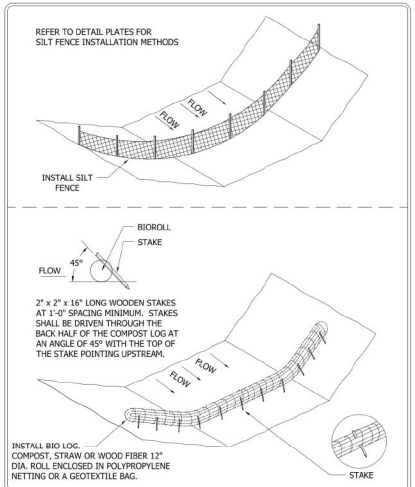


NOTE: USE WIMCO ROAD DRAIN CG-23 OR CG-3290-VB (DEPENDING ON CASTING TYPE) HIGH FLOW INLET PROTECTION CURB AND GUTTER MODELS, OR CITY APPROVED EQUAL.



Cottage Grove – Where Pride and Prosperity Meet	STANDARD DETAILS INLET PROTECTION CATCH BASIN INSERT COTTAGE GROVE, MINNESOTA	JANUARY 2021 PLATE NO. ERO-9

48_ERO9.DWG



Cottage Grove – Where Pride and Prosperity Meet	STANDARD DETAILS DITCH CHECKS COTTAGE GROVE, MINNESOTA	JANUARY 2021 PLATE NO. ERO-11

48_ERO11.DWG

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SEH Project	162976
Drawn By	DSJ, JPS
Designed By	CES
Checked By	BSS, DSJ JPS

Rev.#	Revision Issue Description	Date
Rev.#	Revision Issue Description	Date

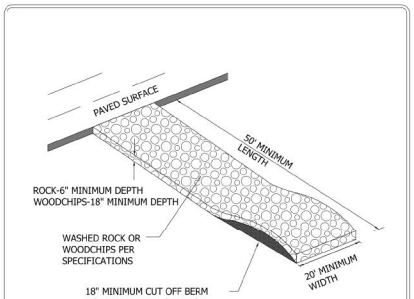
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CHAD E. SETTERHOLM, PE

DATE 02/25/2022 LICENSE NO. 40913

COTTAGE GROVE, MINNESOTA

DETAILS
GOODVIEW AVENUE WATER MAIN EXTENSION



NOTES:
1. FILTER FABRIC SHALL BE PLACED UNDER ROCK OR WOODCHIPS TO STOP MUD MIGRATION THROUGH ROCK.
2. ENTRANCE MUST BE MAINTAINED REGULARLY TO PREVENT SEDIMENTATION TRACKING.

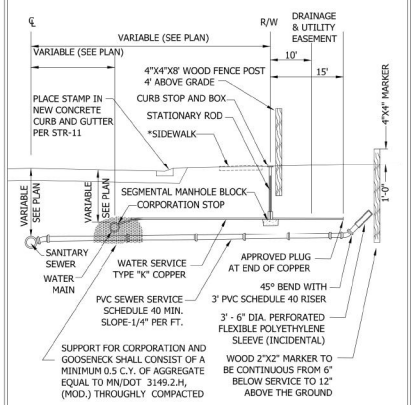
Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
CONSTRUCTION ENTRANCE ROCK AND WOODCHIP
COTTAGE GROVE, MINNESOTA

JANUARY 2021
PLATE NO. ERO-12

48_ERO12.DWG

NOTES:
① REF. SER-11 FOR CURB STOP AND BOX THAT FALL WITHIN BITUMINOUS OR CONCRETE.
② *EXTEND CURB STOP 1' BEYOND R/W WHEN SIDEWALK IS PRESENT.



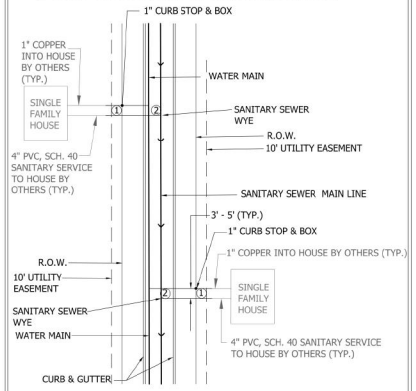
Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
RESIDENTIAL SEWER AND WATER SERVICE CONNECTIONS
COTTAGE GROVE, MINNESOTA

JANUARY 2021
PLATE NO. SER-1

48_SER1.DWG

CONTRACTOR TO PROVIDE THE FOLLOWING DIMENSIONS:
① CURB STOP TO SANITARY SEWER PIPE (PERPENDICULAR TO COPPER).
② SANITARY SEWER PIPE TO COPPER WATER LINE (PERPENDICULAR TO COPPER ALONG SANITARY SEWER MAIN) OR CORPORATION STOP TO SANITARY SEWER SERVICE LINE (PERPENDICULAR TO COPPER WATER LINE).
③ EXTEND CURB STOP 1' BEYOND R/W WHEN SIDEWALK IS PRESENT.

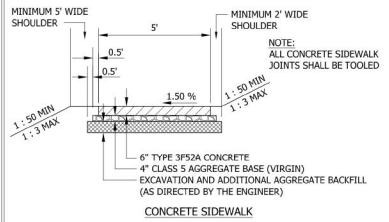


Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
LOCATING REQUIREMENTS FOR SINGLE FAMILY HOUSES
COTTAGE GROVE, MINNESOTA

JANUARY 2021
PLATE NO. SER-5

48_SER5.DWG



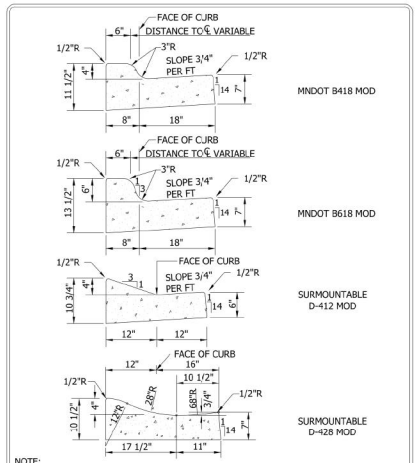
CONCRETE SIDEWALK

Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
CONCRETE SIDEWALK SECTIONS
COTTAGE GROVE, MINNESOTA

JANUARY 2021
PLATE NO. STR-9

48_STR9.DWG



NOTE:
1. PLACE A "W" OR "S" STAMP PER PLATE STR-11 ON FACE OF CURB WHERE CURB AND GUTTER CROSSES A WATER OR SANITARY SEWER SERVICE.

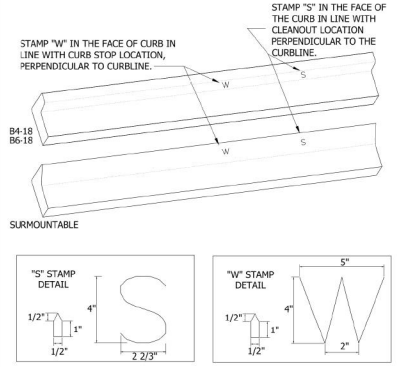
Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
CURB AND GUTTER
COTTAGE GROVE, MINNESOTA

JANUARY 2021
PLATE NO. STR-10

48_STR10.DWG

NOTES:
1. ALL NEW AND EXISTING WATER AND SEWER SERVICE LOCATIONS SHALL BE MARKED IN CURB AS SHOWN. STAMPING OF SERVICE LOCATIONS SHALL BE CONSIDERED INCIDENTAL TO THE PRICE OF CURB.
2. CONCRETE CURB PANELS WITH W'S AND S'S NOT PLACED BY SPECIFIED STAMP WILL NOT BE ACCEPTED.

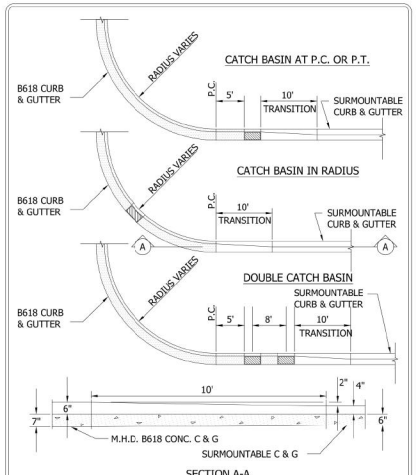


Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
WATER AND SEWER SERVICE LOCATION STAMP IN CURB
COTTAGE GROVE, MINNESOTA

JANUARY 2021
PLATE NO. STR-11

48_STR11.DWG



SECTION A-A

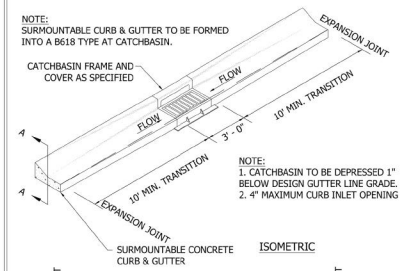
Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
CONCRETE CURB AND GUTTER TRANSITION
COTTAGE GROVE, MINNESOTA

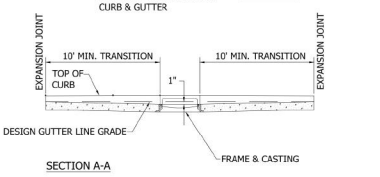
JANUARY 2021
PLATE NO. STR-12

48_STR12.DWG

NOTE:
SURMOUNTABLE CURB & GUTTER TO BE FORMED INTO A B618 TYPE AT CATCHBASIN.



ISOMETRIC



SECTION A-A

Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
SURMOUNTABLE CURB AND GUTTER CONSTRUCTION AT CATCHBASIN
COTTAGE GROVE, MINNESOTA

JANUARY 2021
PLATE NO. STR-13

48_STR13.DWG

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SEH Project	162976
Drawn By	DSJ, JPS
Designed By	CES
Checked By	BSS, DSJ JPS

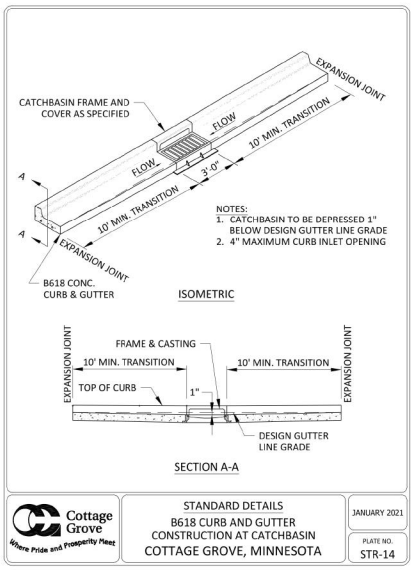
Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date

SEH

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DATE 02/25/2022 LICENSE NO. 40913

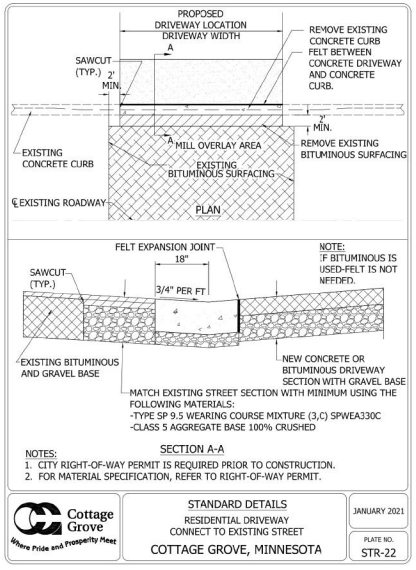
COTTAGE GROVE, MINNESOTA

DETAILS
GOODVIEW AVENUE WATER MAIN EXTENSION



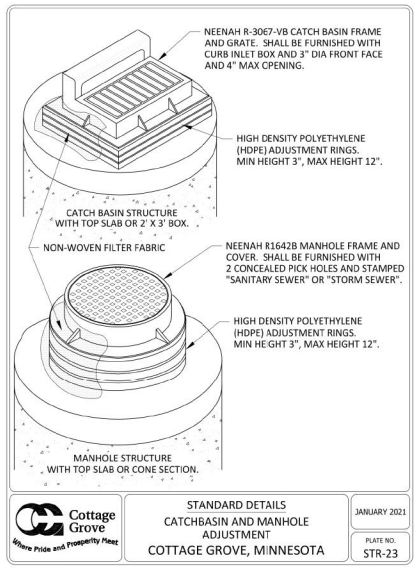
Cottage Grove	STANDARD DETAILS B618 CURB AND GUTTER CONSTRUCTION AT CATCHBASIN COTTAGE GROVE, MINNESOTA	JANUARY 2021	PLATE NO. STR-14

48_STR14.DWG



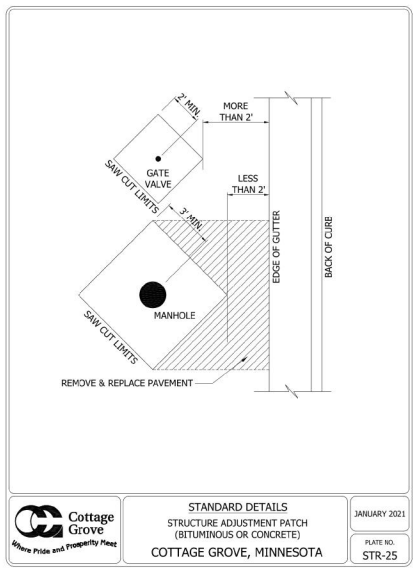
Cottage Grove	STANDARD DETAILS RESIDENTIAL DRIVEWAY CONNECT TO EXISTING STREET COTTAGE GROVE, MINNESOTA	JANUARY 2021	PLATE NO. STR-22

48_STR22.DWG



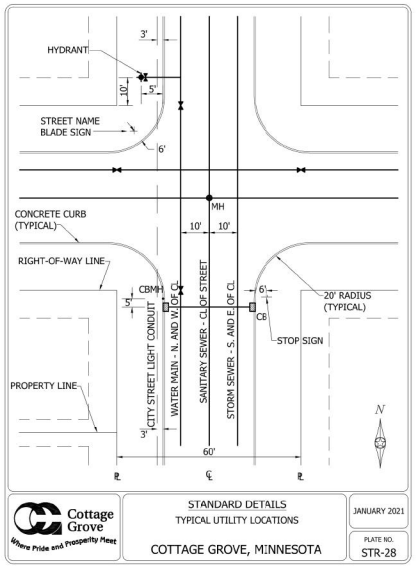
Cottage Grove	STANDARD DETAILS CATCHBASIN AND MANHOLE ADJUSTMENT COTTAGE GROVE, MINNESOTA	JANUARY 2021	PLATE NO. STR-23

48_STR23.DWG



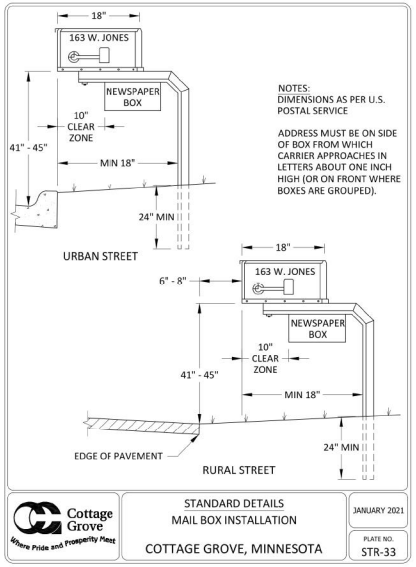
Cottage Grove	STANDARD DETAILS STRUCTURE ADJUSTMENT PATCH (BITUMINOUS OR CONCRETE) COTTAGE GROVE, MINNESOTA	JANUARY 2021	PLATE NO. STR-25

48_STR25.DWG



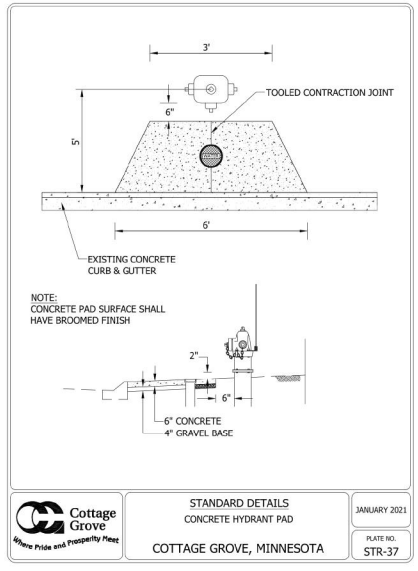
Cottage Grove	STANDARD DETAILS TYPICAL UTILITY LOCATIONS COTTAGE GROVE, MINNESOTA	JANUARY 2021	PLATE NO. STR-28

48_STR28.DWG



Cottage Grove	STANDARD DETAILS MAIL BOX INSTALLATION COTTAGE GROVE, MINNESOTA	JANUARY 2021	PLATE NO. STR-33

48_STR33.DWG

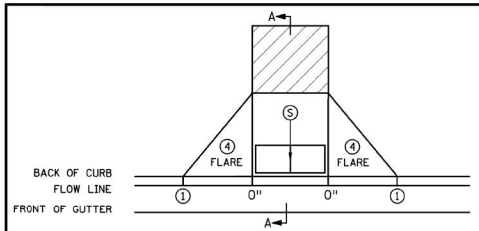


Cottage Grove	STANDARD DETAILS CONCRETE HYDRANT PAD COTTAGE GROVE, MINNESOTA	JANUARY 2021	PLATE NO. STR-37

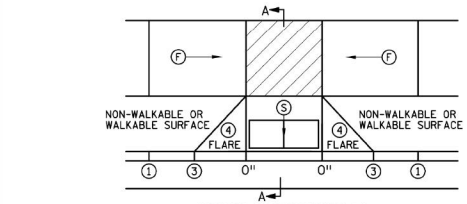
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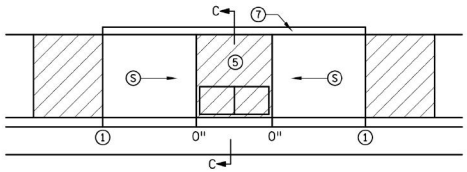
SEH Project	162976	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date	SEH	HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. CHAD E. SETTERHOLM, PE DATE 02/25/2022 LICENSE NO. 40913	**COTTAGE GROVE, MINNESOTA**	**DETAILS GOODVIEW AVENUE WATER MAIN EXTENSION**	6 of 54
Drawn By	DSJ, JPS								
Designed By	CES								
Checked By	BSS, DSJ, JPS								



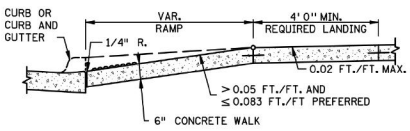
PERPENDICULAR



TIERED PERPENDICULAR

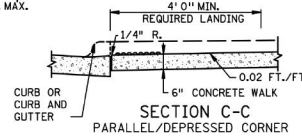


PARALLEL



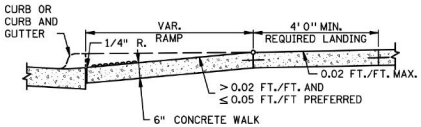
SECTION A-A

PERPENDICULAR/TIERED/DIAGONAL



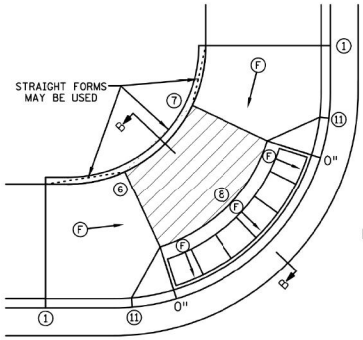
SECTION C-C

PARALLEL/DEPRESSED CORNER

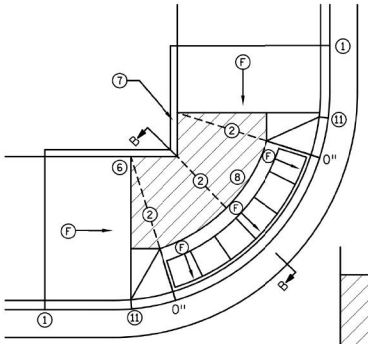


SECTION B-B

FAN

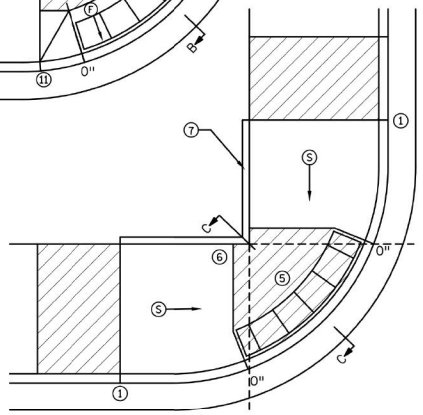


FAN⑩

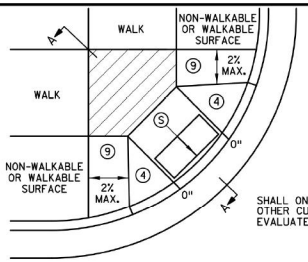


MODIFIED FAN⑩

USED WHEN RIGHT-OF-WAY IS CONSTRAINED



DEPRESSED CORNER



DIAGONAL

SHALL ONLY BE USED AFTER ALL OTHER CURB RAMP TYPES HAVE BEEN EVALUATED AND DEEMED IMPRACTICAL

NOTES:

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE GREATER THAN 2%.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY APPLICABLE WHEN THE INITIAL RAMP RUNNING SLOPE IS OVER 5.0%.

SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL RUNNING SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR, 1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOPS OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES.

ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL, THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH. (EXCEPT AS STATED IN ⑥ BELOW.

TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONSTRUCTED, ALL INITIAL LANDINGS AT A TOP OF A RAMPED SURFACE (RUNNING SLOPE GREATER THAN 2%) SHALL BE FORMED AND PLACED SEPARATELY IN AN INDEPENDENT CONCRETE POUR. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 OF 6 FOR ALL SEPARATELY POURED INITIAL LANDINGS.

WHEN SIDEWALK IS AT BACK OF CURB, TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.

MAINTAIN POSITIVE BOULEVARD DRAINAGE TO TOP OF CURB.

ALL RAMP TYPES SHOULD HAVE A MINIMUM 3' LONG RAMP LENGTH.

4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN. OF 24" IN THE PATH OF TRAVEL. DETECTABLE WARNING TO COVER THE ENTIRE PAR WIDTH OF SHARED-USE PATHS AND THE ENTIRE PAR WIDTH OF THE WALK WITH THE EXCEPTION OF 3" MAXIMUM ON EACH OUTSIDE EDGE WHICH ENSURES THE DETECTABLE WARNINGS ARE ENCASED IN CONCRETE WHEN ADJACENT TO TURF. WHEN ADJACENT TO CONCRETE FLARES 0" - 3" OFFSET IS ALLOWED.

WHEN DESIGNING OR ORDERING RECTANGULAR DETECTABLE WARNING SURFACES SHOULD BE 6" LESS THAN THE INCOMING PAR. ARC LENGTH OF THE RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN 20 FEET.

RECTANGULAR DETECTABLE WARNINGS SHALL BE SETBACK 3" FROM THE BACK OF CURB. RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB.

① MATCH FULL HEIGHT CURB.

② 4' MINIMUM DEPTH LANDING REQUIRED ACROSS TOP OF RAMP.

③ 3" HIGH CURB WHEN USING A 3' LONG RAMP, 4" HIGH CURB WHEN USING A 4' LONG RAMP.

④ SEE SHEET 4 OF 6, TYPICAL SIDE TREATMENT OPTIONS, FOR DETAILS ON FLARES AND RETURNED CURBS.

⑤ DETECTABLE WARNINGS MAY BE PART OF THE 4' X 4' MIN. LANDING AREA IF IT IS NOT FEASIBLE TO CONSTRUCT THE LANDING OUTSIDE OF THE DETECTABLE WARNING AREA.

⑥ THE GRADE BREAK SHALL BE PERPENDICULAR TO THE BACK OF WALK. THIS WILL ENSURE THAT THE GRADE BREAK IS PERPENDICULAR TO THE DIRECTION OF TRAVEL. (TYPICAL FOR ALL)

⑦ WHEN ADJACENT TO GRASS, GRADING SHALL ALWAYS BE USED WHEN FEASIBLE. V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. WHEN ADJACENT TO PARKING LOTS, CONCRETE OR BITUMINOUS TAPERS LESS THAN 5% RUNNING SLOPE SHOULD BE USED OVER V CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOVAL.

⑧ A 7' MIN TOP RADIUS GRADE BREAK IS REQUIRED TO BE CONSTRUCTIBLE.

⑨ PAVE FULL WALK WIDTH.

⑩ "S" SLOPES ON FANS SHALL ONLY BE USED WHEN ALL OTHER FEASIBLE OPTIONS HAVE BEEN EVALUATED AND DEEMED IMPRACTICAL.

⑪ INTERMEDIATE CURB HEIGHTS TAPER SHALL RISE AT 8-10% TO A MINIMUM 3" CURB HEIGHT. REDUCE INTERMEDIATE CURB HEIGHT TO 2+ INCHES IF NECESSARY TO MATCH ADJACENT BOULEVARD OR SIDEWALK GRADES.

LEGEND

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

(S) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.

(F) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.

LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.

X" CURB HEIGHT

REVISION:

APPROVED: 11-04-2021

JEFFREY PERKINS
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.250 | 1 OF 6

APPROVED: 11-04-2021
REVISED:

THOMAS STYRBICKI
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

		Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
SEH Project	162976						
Drawn By	DSJ, JPS						
Designed By	CES						
Checked By	BSS, DSJ JPS						

SEH

HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

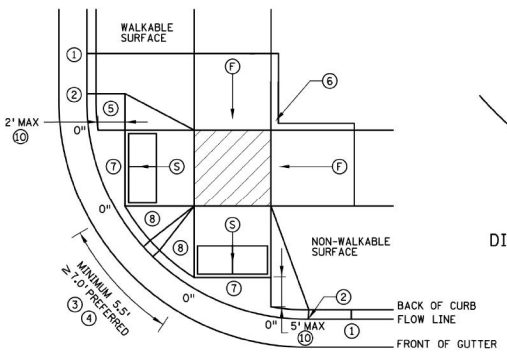
CHAD E. SETTERHOLM, PE

DATE 02/25/2022 LICENSE NO. 40913

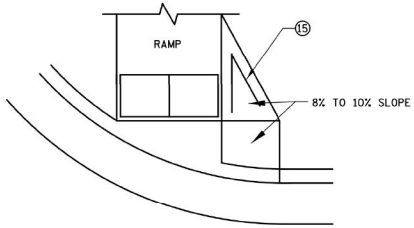
COTTAGE GROVE, MINNESOTA

DETAILS
GOODVIEW AVENUE WATER MAIN EXTENSION

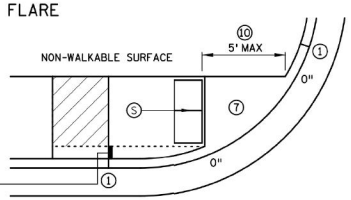
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COMBINED DIRECTIONAL

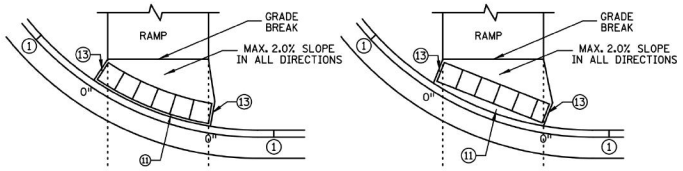


DIRECTIONAL RAMP WALKABLE FLARE



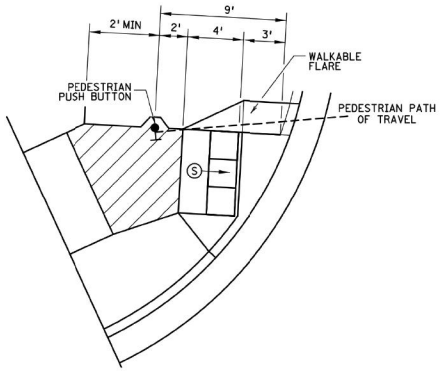
IF NON-CONCRETE BLVD. IS CONSTRUCTED AND IS LESS THAN 2' IN WIDTH AT TOP OF CURB TRANSITION, PAVE CONCRETE RAMP WIDTH TO ADJACENT BACK OF CURB.

STANDARD ONE-WAY DIRECTIONAL ⑨



DETECTABLE WARNING PLACEMENT WHEN SETBACK CRITERIA IS EXCEEDED ⑫

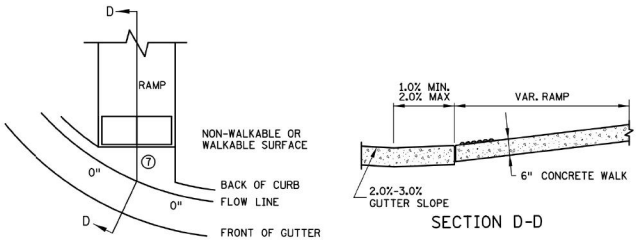
ONE-WAY DIRECTIONAL WITH DETECTABLE WARNING AT BACK OF CURB



SEMI-DIRECTIONAL RAMP ③④⑨

3' DOME SETBACK, 4' LONG RAMP AND PUSH BUTTON 9' FROM THE BACK OF CURB

PRIMARILY USED FOR APS APPLICATIONS WHERE THE PAR DOES NOT CONTINUE PAST THE PUSH BUTTON (DEAD-END SIDEWALK)



SECTION D-D

CURB FOR DIRECTIONAL RAMPS ⑭

NOTES:

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY APPLICABLE WHEN THE INITIAL RAMP RUNNING SLOPE IS OVER 5.0%.

SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR. 1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOP GRADE BREAK OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES.

ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL. THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH.

TO ENSURE INITIAL RAMPS AND INITIAL LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS SHALL BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 AND THE ADA SPECIAL PROVISION (PROSECUTION OF WORK).

TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.

WHEN THE BOULEVARD IS 4' WIDE OR LESS, THE TOP OF CURB TAPER SHALL MATCH THE RAMP SLOPES TO REDUCE NEGATIVE BOULEVARD SLOPES FROM THE TOP BACK OF CURB TO THE PAR.

ALL RAMP TYPES SHOULD HAVE A MINIMUM 3' LONG RAMP LENGTH.

4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN. OF 24" IN THE PATH OF TRAVEL. DETECTABLE WARNING TO COVER THE ENTIRE PAR WIDTH OF SHARED-USE PATHS AND THE ENTIRE PAR WIDTH OF THE WALK WITH THE EXCEPTION OF 3" MAXIMUM ON EACH OUTSIDE EDGE WHICH ENSURES THE DETECTABLE WARNINGS ARE ENCASED IN CONCRETE WHEN ADJACENT TO TURF. WHEN ADJACENT TO CONCRETE FLARES 0" - 3" OFFSET IS ALLOWED.

WHEN DESIGNING OR ORDERING RECTANGULAR DETECTABLE WARNING SURFACES SHOULD BE 6" LESS THAN THE INCOMING PAR. ARC LENGTH OF THE RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN 20 FEET.

RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB. SEE NOTES ⑩ & ⑪ FOR INFORMATION REGARDING RECTANGULAR DETECTABLE WARNING PLACEMENT.

① MATCH FULL CURB HEIGHT.

② 3" HIGH CURB WHEN USING A 3' LONG RAMP
4" HIGH CURB WHEN USING A 4' LONG RAMP.

③ 3" MINIMUM CURB HEIGHT (5.5' MIN. DISTANCE REQUIRED BETWEEN DOMES)
4" PREFERRED (7' MIN. DISTANCE REQUIRED BETWEEN DOMES).

④ THE "BUMP" IN BETWEEN THE RAMPS SHOULD NOT BE IN THE PATH OF TRAVEL FOR COMBINED DIRECTIONAL RAMPS. IF THIS OCCURS MODIFY THE RAMP LOCATION OR SWITCH RAMP TO A FAN/DEPRESSED CORNER.

⑤ WHEN USING CONCRETE PAVED FLARES ON THE OUTSIDE OF DIRECTIONAL RAMPS, AND ADJACENT TO A WALKABLE SURFACE, DIRECTIONAL RAMP FLARES SHALL BE USED. SEE THE DETAIL ON THIS SHEET.

⑥ GRADING SHALL ALWAYS BE USED WHEN FEASIBLE. V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. WHEN ADJACENT TO PARKING LOTS, CONCRETE OR BITUMINOUS TAPERS SHOULD BE USED OVER V CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOVAL.

⑦ MAX. 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK AND DRAIN TO FLOW LINE. SHALL BE CONSTRUCTED INTEGRAL WITH CURB AND GUTTER.

⑧ 8% TO 10% WALKABLE FLARE.

⑨ PLACE DOMES AT THE BACK OF CURB WHEN ALLOWABLE SETBACK CRITERIA IS EXCEEDED.

⑩ FRONT EDGE OF DETECTABLE WARNING SHALL BE SET BACK 2' MAXIMUM WHEN ADJACENT TO WALKABLE SURFACE, AND 5' MAXIMUM WHEN ADJACENT TO NON-WALKABLE SURFACE WITH ONE CORNER SET 3" FROM BACK OF CURB. A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.

⑪ RECTANGULAR DETECTABLE WARNINGS MAY BE SETBACK UP TO 9" FROM THE BACK OF CURB WITH CORNERS SET 3" FROM BACK OF CURB. IF 9" SETBACK IS EXCEEDED USE RADIAL DETECTABLE WARNINGS.

⑫ FOR DIRECTIONAL RAMPS WITH THE DETECTABLE WARNINGS PLACED AT THE BACK OF CURB, THE DETECTABLE WARNINGS SHALL COVER THE ENTIRE WIDTH OF THE WALK/PATH. THIS ENSURES A DETECTABLE EDGE AND HELPS ELIMINATE THE CURB TAPER OBSTRUCTING THE PATH OF PEDESTRIAN TRAVEL.

⑬ THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE BACK OF CURB. MAINTAIN 3" BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.

⑭ TO BE USED FOR ALL DIRECTIONAL RAMPS, EXCEPT WHERE DOMES ARE PLACED ALONG THE BACK OF CURB.

⑮ PLACE 2 NO. 4 BARS 4 INCHES FROM SIDE OF FORMS WITH A MINIMUM 2 INCHES OF CONCRETE COVER ALONG EACH SIDE OF FLARE (INCIDENTAL).

LEGEND

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

(S) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.

(F) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.

LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.

X" CURB HEIGHT

REVISION:

APPROVED: 11-04-2021

JEFFREY PERKINS
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.250 | 2 OF 6

APPROVED: 11-04-2021
REVISED:

THOMAS STYBRICKI
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STATE PROJ. NO. (T.H.) SHEET NO. OF SHEETS

		Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
SEH Project	162976						
Drawn By	DSJ, JPS						
Designed By	CES						
Checked By	BSS, DSJ JPS						

SEH

HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

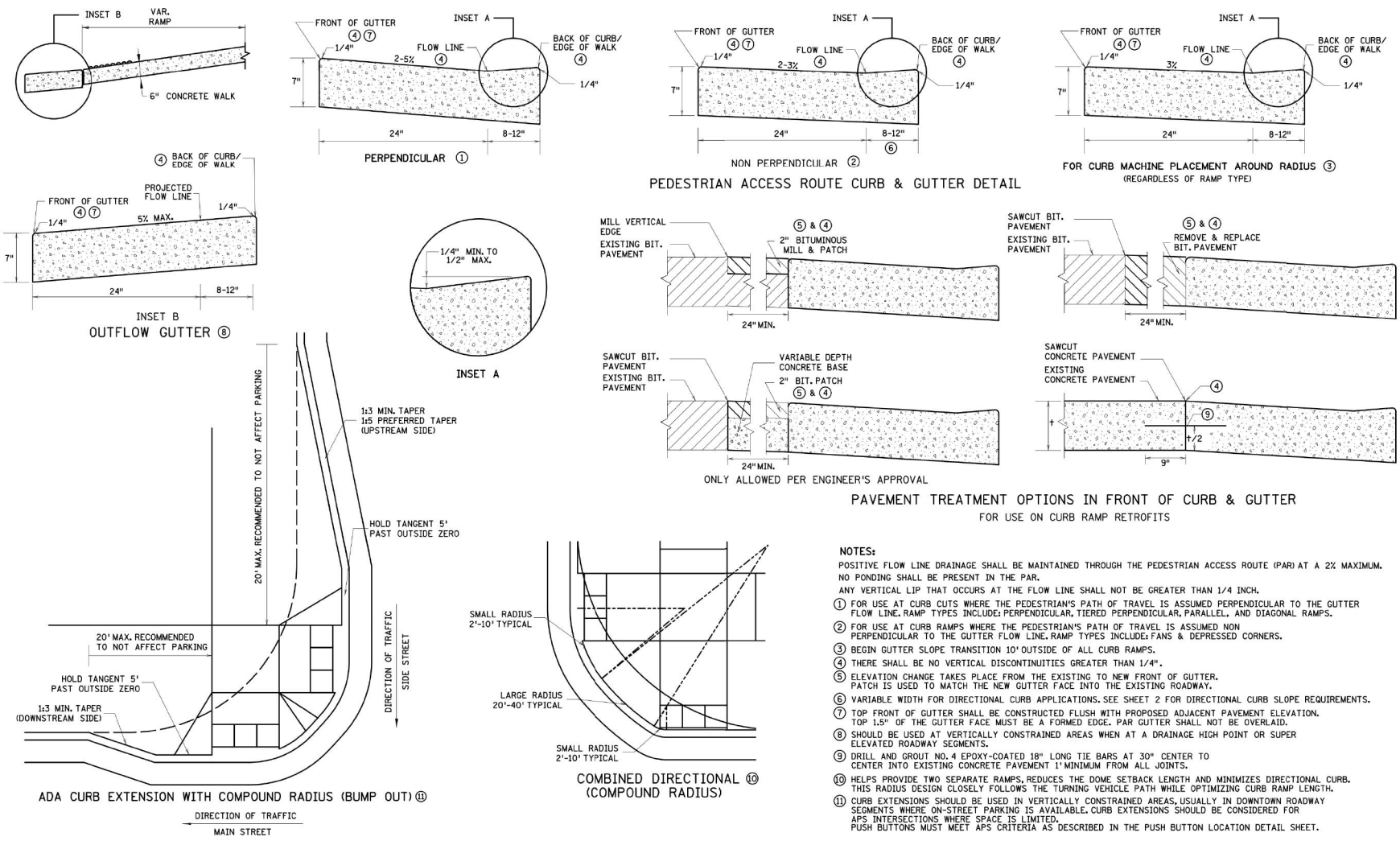
CHAD E. SETTERHOLM, PE

DATE 02/25/2022 LICENSE NO. 40913

COTTAGE GROVE, MINNESOTA

DETAILS
GOODVIEW AVENUE WATER MAIN EXTENSION

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NOTES:

POSITIVE FLOW LINE DRAINAGE SHALL BE MAINTAINED THROUGH THE PEDESTRIAN ACCESS ROUTE (PAR) AT A 2% MAXIMUM.
NO PONDING SHALL BE PRESENT IN THE PAR.
ANY VERTICAL LIP THAT OCCURS AT THE FLOW LINE SHALL NOT BE GREATER THAN 1/4 INCH.

① FOR USE AT CURB CUTS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: PERPENDICULAR, TIERED PERPENDICULAR, PARALLEL, AND DIAGONAL RAMPS.
② FOR USE AT CURB RAMPS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED NON PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: FANS & DEPRESSED CORNERS.
③ BEGIN GUTTER SLOPE TRANSITION 10' OUTSIDE OF ALL CURB RAMPS.
④ THERE SHALL BE NO VERTICAL DISCONTINUITIES GREATER THAN 1/4".
⑤ ELEVATION CHANGE TAKES PLACE FROM THE EXISTING TO NEW FRONT OF GUTTER. PATCH IS USED TO MATCH THE NEW GUTTER FACE INTO THE EXISTING ROADWAY.
⑥ VARIABLE WIDTH FOR DIRECTIONAL CURB APPLICATIONS. SEE SHEET 2 FOR DIRECTIONAL CURB SLOPE REQUIREMENTS.
⑦ TOP FRONT OF GUTTER SHALL BE CONSTRUCTED FLUSH WITH PROPOSED ADJACENT PAVEMENT ELEVATION. TOP 1.5" OF THE GUTTER FACE MUST BE A FORMED EDGE. PAR GUTTER SHALL NOT BE OVERLAID.
⑧ SHOULD BE USED AT VERTICALLY CONSTRAINED AREAS WHEN AT A DRAINAGE HIGH POINT OR SUPER ELEVATED ROADWAY SEGMENTS.
⑨ DRILL AND GROUT NO. 4 EPOXY-COATED 18" LONG TIE BARS AT 30" CENTER TO CENTER INTO EXISTING CONCRETE PAVEMENT 1' MINIMUM FROM ALL JOINTS.
⑩ HELPS PROVIDE TWO SEPARATE RAMPS, REDUCES THE DOME SETBACK LENGTH AND MINIMIZES DIRECTIONAL CURB. THIS RADIUS DESIGN CLOSELY FOLLOWS THE TURNING VEHICLE PATH WHILE OPTIMIZING CURB RAMP LENGTH.
⑪ CURB EXTENSIONS SHOULD BE USED IN VERTICALLY CONSTRAINED AREAS, USUALLY IN DOWNTOWN ROADWAY SEGMENTS WHERE ON-STREET PARKING IS AVAILABLE. CURB EXTENSIONS SHOULD BE CONSIDERED FOR APS INTERSECTIONS WHERE SPACE IS LIMITED.
PUSH BUTTONS MUST MEET APS CRITERIA AS DESCRIBED IN THE PUSH BUTTON LOCATION DETAIL SHEET.

REVISION:
APPROVED: 11-04-2021
JEFFREY PERKINS
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.250 | 3 OF 6

APPROVED: 11-04-2021
REVISED:

THOMAS STYRBICKI
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

		Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
SEH Project	162976						
Drawn By	DSJ, JPS						
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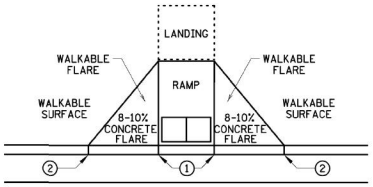
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CHAD E. SETTERHOLM, PE
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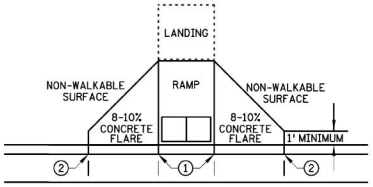
COTTAGE GROVE, MINNESOTA

DETAILS
GOODVIEW AVENUE WATER MAIN EXTENSION

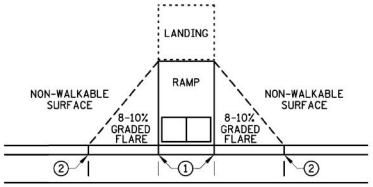
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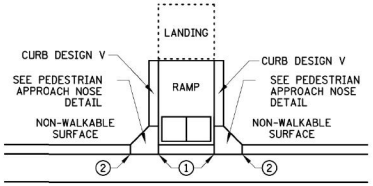
PAVED FLARES
ADJACENT TO WALKABLE SURFACE



PAVED FLARES
ADJACENT TO NON-WALKABLE SURFACE

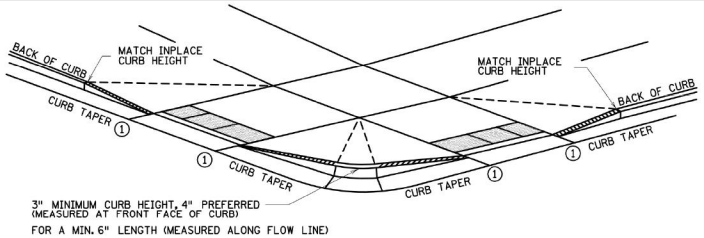


GRADED FLARES

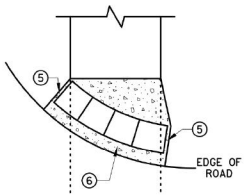


RETURNED CURB ④

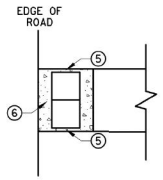
TYPICAL SIDE TREATMENT OPTIONS ③ ⑩



DETECTABLE EDGE WITH ⑦
CURB AND GUTTER

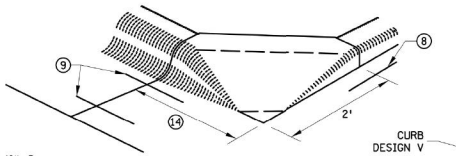


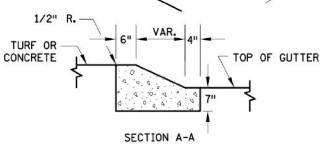
RADIAL DETECTABLE WARNING



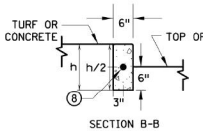
RECTANGULAR DETECTABLE WARNING

DETECTABLE EDGE WITHOUT CURB AND GUTTER

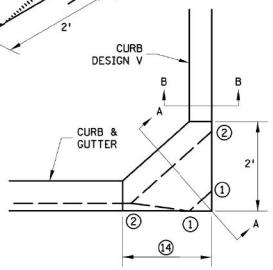




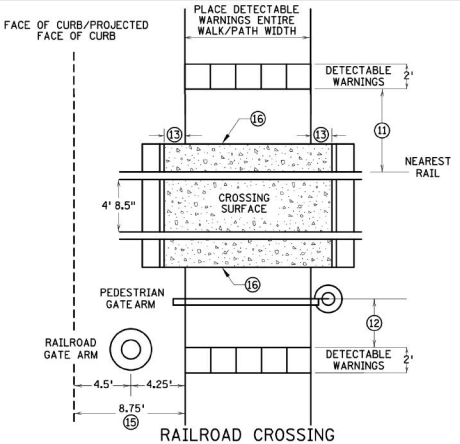
SECTION A-A



SECTION B-B



PEDESTRIAN APPROACH
NOSE DETAIL
(FOR RETURNED CURB
SIDE TREATMENT)



RAILROAD CROSSING
PLAN VIEW

NOTES:

INTERMEDIATE CURB HEIGHTS TAPER SHALL RISE AT 8-10% TO A MINIMUM 3 INCH CURB HEIGHT. INCREASE CURB TAPER LENGTH AT LESS THAN 8% OR REDUCE INTERMEDIATE CURB HEIGHT TO 2+ INCHES IF NECESSARY TO MATCH ADJACENT BOULEVARD OR SIDEWALK GRADES.

SEE STANDARD PLATE 7038 AND THIS SHEET FOR ADDITIONAL DETAILS ON DETECTABLE WARNING.

A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.

CONCRETE FLARE LENGTHS ADJACENT TO NON-WALKABLE SURFACES SHOULD BE LESS THAN 8' LONG MEASURED ALONG THE RAMPS FROM THE BACK OF CURB.

① 0" CURB HEIGHT. SEE INSET A ON SHEET 3 OF 6.

② FULL CURB HEIGHT.

③ SIDE TREATMENTS ARE APPLICABLE TO ALL RAMP TYPES AND SHOULD BE IMPLEMENTED AS NEEDED AS FIELD CONDITIONS DICTATE. THE ENGINEER SHALL DETERMINE THE RAMP SIDE TREATMENTS BASED ON MAINTENANCE OF BOTH ROADWAY AND SIDEWALK, ADJACENT PROPERTY CONSIDERATIONS, AND MITIGATING CONSTRUCTION IMPACTS.

④ TYPICALLY USED FOR MEDIANS AND ISLANDS.

⑤ WHEN NO CONCRETE FLARES ARE PROPOSED, THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE EDGE OF ROADWAY. MAINTAIN 3" MAX. BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.

⑥ IF NO CURB AND GUTTER IS PLACED IN RURAL SECTIONS, DETECTABLE WARNINGS SHALL BE PLACED 1' FROM THE EDGE OF BITUMINOUS ROADWAY AND/OR BITUMINOUS SHARED-USE PATH TO PROVIDE VISUAL CONTRAST.

⑦ ALL CONSTRUCTED CURBS MUST HAVE A CONTINUOUS DETECTABLE EDGE FOR THE VISUALLY IMPAIRED. THIS DETECTABLE EDGE REQUIRES DETECTABLE WARNINGS WHEREVER THERE IS ZERO-INCH HIGH CURB. CURB TAPERS ARE CONSIDERED A DETECTABLE EDGE WHEN THE TAPER STARTS WITHIN 3" OF THE EDGE OF THE DETECTABLE WARNINGS. AND UNIFORMLY RISES TO A 3-INCH MINIMUM CURB HEIGHT. ANY CURB NOT PART OF A CURB TAPER AND LESS THAN 3 INCHES IN HEIGHT IS NOT CONSIDERED A DETECTABLE EDGE AND THEREFORE IS NOT COMPLIANT WITH ACCESSIBILITY STANDARDS.

⑧ DRILL AND GROUT 1 - NO. 4 12" LONG REINFORCEMENT BAR (EPOXY COATED) WITH 3" MIN. COVER. REINFORCEMENT BARS ARE NOT NEEDED IF THE APPROACH NOSE IS POURED INTEGRAL WITH THE V CURB.

⑨ DRILL AND GROUT 2 - NO. 4 12" LONG REINFORCEMENT BARS (EPOXY COATED) WITH 3" MIN. COVER. REINFORCEMENT BARS ARE NOT NEEDED IF THE APPROACH NOSE IS POURED INTEGRAL WITH THE CURB AND GUTTER.

⑩ SIDE TREATMENT EXAMPLES SHOWN ARE WHEN THE INITIAL LANDING IS APPROXIMATELY LEVEL WITH THE FULL HEIGHT CURB (I.E. 6' LONG RAMP FOR 6" HIGH CURB). WHEN THE INITIAL LANDING IS MORE THAN 1" BELOW FULL HEIGHT CURB REFER TO SHEETS 1 & 2 TO MODIFY THE CURB HEIGHT TAPERS AND MAINTAIN POSITIVE BOULEVARD DRAINAGE. CONSTRUCT THESE TAPERS AT 0"-3" AT 8-10%, THEN LESS THAN 5% FROM 3" CURB TO FULL CURB HEIGHT.

⑪ NEAREST EDGE OF DETECTABLE WARNING SURFACES SHALL BE PLACED 12' MINIMUM TO 15' MAXIMUM FROM THE NEAREST RAIL. FOR SKEWED RAILWAYS IN NO INSTANCE SHALL THE DETECTABLE WARNING BE CLOSER THAN 12' MEASURED PERPENDICULAR TO THE NEAREST RAIL.

⑫ WHEN PEDESTRIAN GATES ARE PROVIDED, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE SIDE OF THE GATES OPPOSITE THE RAIL, 2' FROM THE APPROACHING SIDE OF THE GATE ARM. THIS CRITERIA GOVERNS OVER NOTE ⑪.

⑬ CROSSING SURFACE SHALL EXTEND 2' MINIMUM PAST THE OUTSIDE EDGE OF WALK OR SHARED-USE PATH.

⑭ 3' FOR MEDIANS AND SPLITTER ISLANDS. NOSE CAN BE REDUCED TO 2' ON FREE RIGHT ISLANDS.

⑮ SIDEWALK TO BE PLACED 8.75' MIN. FROM THE FACE OF CURB/PROJECTED FACE OF CURB. THIS ENSURES MIN. CLEARANCE BETWEEN THE SIDEWALK AND GATE ARM COUNTERWEIGHT SUPPORTS.

⑯ CONSTRUCT WITH EXPANSION MATERIAL PER MNDOT SPECIFICATION 3702 TYPES A-E. EXPANSION MATERIAL SHALL MATCH FULL HEIGHT OF ADJACENT CONCRETE.

REVISION:
APPROVED: 11-04-2021
JEFFREY PERKINS
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.250 | 4 OF 6
APPROVED: 11-04-2021
REVISED:
THOMAS STYBRICKI
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

		Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
SEH Project	162976						
Drawn By	DSJ, JPS						
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Checked By	BSS, DSJ JPS						

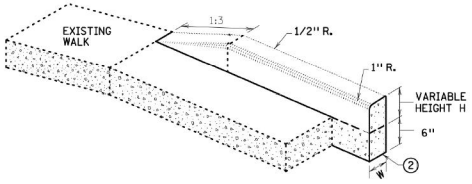
SEH

HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
CHAD E. SETTERHOLM, PE
DATE 02/25/2022 LICENSE NO. 40913

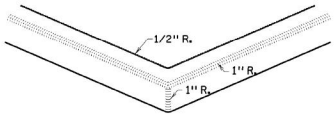
COTTAGE GROVE, MINNESOTA

DETAILS
GOODVIEW AVENUE WATER MAIN EXTENSION

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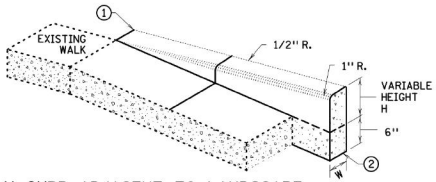


V CURB ADJACENT TO LANDSCAPE
CURB WITHIN SIDEWALK LIMITS

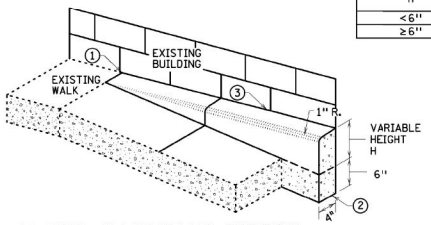


V CURB INTERSECTION

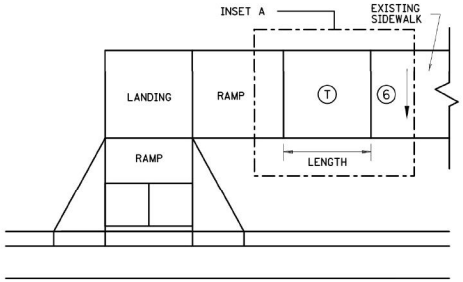
CONCRETE CURB DESIGN V	
CURB HEIGHT H	CURB WIDTH W
<6"	4"
≥6"	6"



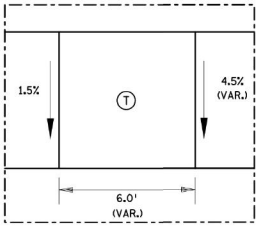
V CURB ADJACENT TO LANDSCAPE
CURB OUTSIDE SIDEWALK LIMITS



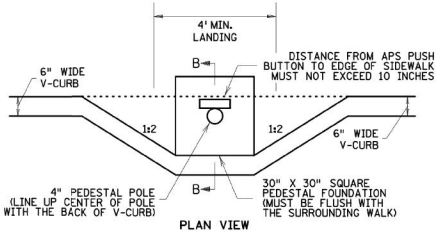
V CURB ADJACENT TO BUILDING OR BARRIER



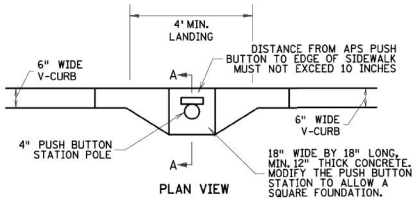
TRANSITION PANEL ④⑤



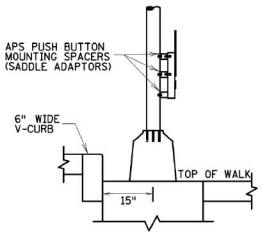
INSET A



PLAN VIEW

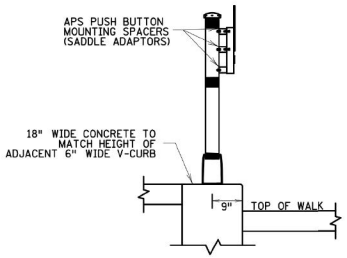


PLAN VIEW



SECTION B-B

SIGNAL PEDESTAL & PUSH BUTTON (V-CURB)



SECTION A-A

PUSH BUTTON STATION (V-CURB)

NOTES:

A WALKABLE FLARE IS AN 8-10% CONCRETE FLARE THAT IS REQUIRED WHEN THE FLARE IS ADJACENT TO A WALKABLE SURFACE, OR WHEN THE PEDESTRIAN PATH OF TRAVEL OF A PUSH BUTTON TRAVERSES THE FLARE.

ALL V CURB CONTRACTION JOINTS SHALL MATCH CONCRETE WALK JOINTS.

WHERE RIGHT-OF-WAY ALLOWS, USE OF V CURB SHOULD BE MINIMIZED. GRADING ADJACENT TURF OR SLOPING ADJACENT PAVEMENT IS PREFERRED.

V CURB SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS.

V CURB NEXT TO BUILDING SHALL BE A 4" WIDTH AND SHALL MATCH PREVIOUS TOP OF SIDEWALK ELEVATIONS.

1. END TAPERS AT TRANSITION SECTION SHALL MATCH INPLACE SIDEWALK GRADES.
2. ALL V CURB SHALL MATCH BOTTOM OF ADJACENT WALK.
3. CONSTRUCT USING APPROVED EXPANSION MATERIAL PER MNDOT TYPE A-E EXPANSION. LEAVE A MINIMUM ½" TOP GAP AND SEAL WITH MNDOT APPROVED SILICONE PER MNDOT SPEC 3722.
4. THE MAX. RATE OF CROSS SLOPE TRANSITIONING IS 1' LINEAR FOOT OF SIDEWALK PER HALF PERCENT CROSS SLOPE. WHEN PAR WIDTH IS GREATER THAN 6' OR THE RUNNING SLOPE IS GREATER THAN 5%, DOUBLE THE CALCULATED TRANSITION LENGTH.
5. TRANSITION PANELS ARE TO ONLY BE USED AFTER THE RAMP, OR IF NEEDED, LANDING ARE AT THE FULL CURB HEIGHT (TYPICAL SECTION).
6. EXISTING CROSS SLOPE GREATER THAN 2.0%.

LEGEND

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

- (S) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.
- LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.
- (T) TRANSITION PANEL(S) - TO BE USED FOR TRANSITIONING THE CROSS-SLOPE OF A RAMP TO THE EXISTING WALK CROSS-SLOPE. RATE OF TRANSITION SHOULD BE 0.5% PER 1 LINEAR FOOT OF WALK. SEE THIS SHEET FOR ADDITIONAL INFORMATION.

REVISION:

APPROVED: 11-04-2021
JEFFREY PERKINS
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.250 | 5 OF 6

APPROVED: 11-04-2021
REVISED:

THOMAS STYBRICKI
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

SEH Project	162976	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	DSJ, JPS						
Designed By	CES						
Checked By	BSS, DSJ JPS						

SEH

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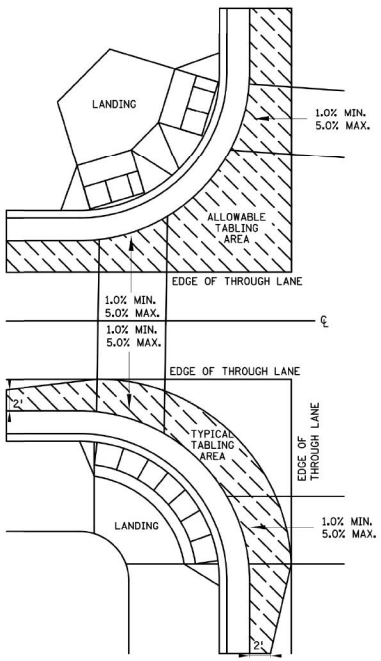
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DATE 02/25/2022 LICENSE NO. 40913

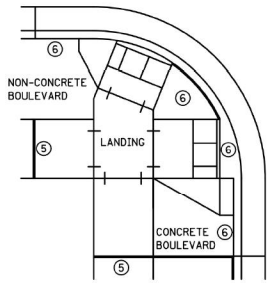
COTTAGE GROVE, MINNESOTA

DETAILS
GOODVIEW AVENUE WATER MAIN EXTENSION

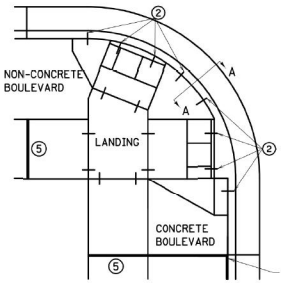
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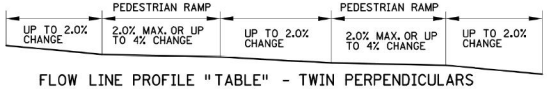
CURB LINE AND ROAD CROSSING ADJUSTMENTS



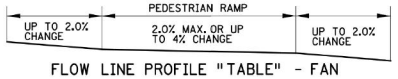
EXPANSION MATERIAL PLACEMENT FOR CONCRETE ROADWAYS



CURB LINE REINFORCEMENT ④ PLACEMENT ON BITUMINOUS ROADWAYS



FLOW LINE PROFILE "TABLE" - TWIN PERPENDICULARS



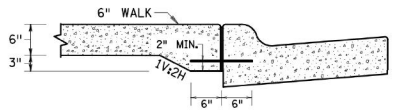
FLOW LINE PROFILE "TABLE" - FAN



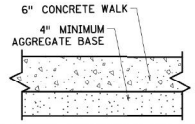
FLOW LINE PROFILE RAISE - TWIN PERPENDICULARS



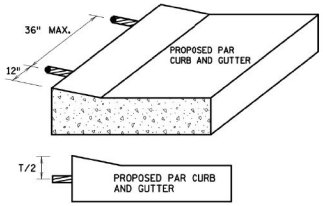
FLOW LINE PROFILE RAISE - FAN



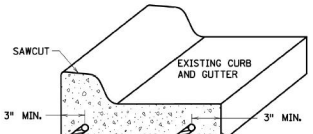
SECTION VIEW A-A
THICKENED SECTION
THROUGH CURB RAMP FLARES



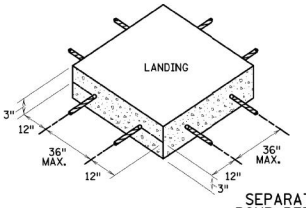
TYPICAL SIDEWALK SECTION
WITHIN INTERSECTION CORNER

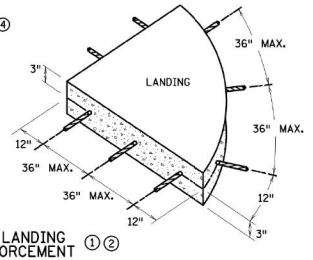


CURB RAMP REINFORCEMENT DETAILS ②④



CURB AND GUTTER REINFORCEMENT ③





SEPARATE LANDING POUR REINFORCEMENT ①②

GENERAL NOTES:

"TABLING" OF CROSSWALKS MEANS MAINTAINING LESS THAN 2% CROSS SLOPE WITHIN A CROSSWALK, IS REQUIRED WHEN A ROADWAY IS IN A STOP OR YIELD CONDITION AND THE PROJECT SCOPE ALLOWS.

RECONSTRUCTION PROJECTS: ON FULL PAVEMENT REPLACEMENT PROJECTS "TABLING" OF ENTIRE CROSSWALK SHALL OCCUR WHEN FEASIBLE.

MILL & OVERLAY PROJECTS: "TABLING" OF FLOW LINES, IN FRONT OF THE PEDESTRIAN RAMP, IS REQUIRED WHEN THE EXISTING FLOW LINE IS GREATER THAN 2%. WARPING OF THE BITUMINOUS PAVEMENT CAN NOT EXTEND INTO THE THROUGH LANE. TABLE THE FLOW LINE TO 2% OR AS MUCH AS POSSIBLE WHILE ADHERING TO THE FOLLOWING CRITERIA:
1) 1.0% MIN. CROSS-SLOPE OF THE ROAD
2) 5.0% MAX. CROSS-SLOPE OF THE ROAD
3) "TABLE" FLOW LINE UP TO 4% CHANGE FROM EXISTING SLOPE IN FRONT OF PEDESTRIAN RAMP
4) UP TO 2% CHANGE IN FLOW LINE FROM EXISTING SLOPE BEYOND THE PEDESTRIAN CURB RAMP

STAND-ALONE ADA RETROFITS: FOLLOW MILL & OVERLAY CRITERIA ABOVE HOWEVER ALL PAVEMENT WARPING IS DONE WITH BITUMINOUS PATCHING ON BITUMINOUS ROADWAYS AND FULL-DEPTH APRON REPLACEMENT ON CONCRETE ROADWAYS.

RAISING OF CURB LINES SHOULD OCCUR IN VERTICALLY CONSTRAINED AREAS. RAISE THE CURB LINES ENOUGH TO ALLOW COMPLIANT RAMPS OR AS MUCH AS POSSIBLE WHILE ADHERING TO THE FOLLOWING CRITERIA:
1) 1.0% MIN. AND 5.0% MAXIMUM CROSS-SLOPE OF THE ROAD
2) 1.0% MIN. FLOW LINE (ON EITHER SIDE OF PEDESTRIAN RAMP) TO MAINTAIN POSITIVE DRAINAGE
3) 5.0% RECOMMENDED MAX. FLOW LINE
4) LONGITUDINAL THROUGH LANE ROADWAY TAPERS SHOULD BE 1" VERTICAL PER 15' HORIZONTAL

NOTES:

① TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONSTRUCTED, ALL INITIAL LANDINGS AT A TOP OF A RAMPED SURFACE (RUNNING SLOPE GREATER THAN 2%) SHALL BE FORMED AND PLACED SEPARATELY IN AN INDEPENDENT CONCRETE POUR. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON THIS SHEET FOR ALL SEPARATELY POURED INITIAL LANDINGS.

② DRILL AND GROUT NO. 4 12" LONG REINFORCEMENT BARS (EPOXY COATED) AT 36" MAXIMUM CENTER TO CENTER MINIMUM 12" SPACING FROM CONSTRUCTION JOINTS. BARS TO BE ADJUSTED TO MATCH RAMP GRADE. BARS TO BE PAID BY EACH.

③ DRILL AND GROUT 2 - NO. 4 X 12" LONG (6" EMBEDDED) REINFORCEMENT BARS (EPOXY COATED). REINFORCEMENT REQUIRED FOR ALL CONSTRUCTION JOINTS. BARS TO BE PAID BY EACH.

④ THIS CURB LINE REINFORCEMENT DETAIL SHALL BE USED ON BITUMINOUS ROADWAYS. FOR CONCRETE ROADWAYS, SEE NOTE 6.

⑤ CONSTRUCT WITH EXPANSION MATERIAL PER MNDOT SPECIFICATION 3702 TYPES A-E. EXPANSION MATERIAL SHALL MATCH FULL HEIGHT OF ADJACENT CONCRETE.

⑥ USE AN APPROVED TYPE F (1/4 INCH THICK) SEPARATION MATERIAL. SEPARATION MATERIAL SHALL MATCH FULL HEIGHT DIMENSION OF ADJACENT CONCRETE.

REVISION:

APPROVED: 11-04-2021
JEFF PERKINS
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.250 | 6 OF 6

APPROVED: 11-04-2021
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PEDESTRIAN CURB RAMP DETAILS

STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

		Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
SEH Project	162976						
Drawn By	DSJ, JPS						
Designed By	CES						
Checked By	BSS, DSJ JPS						

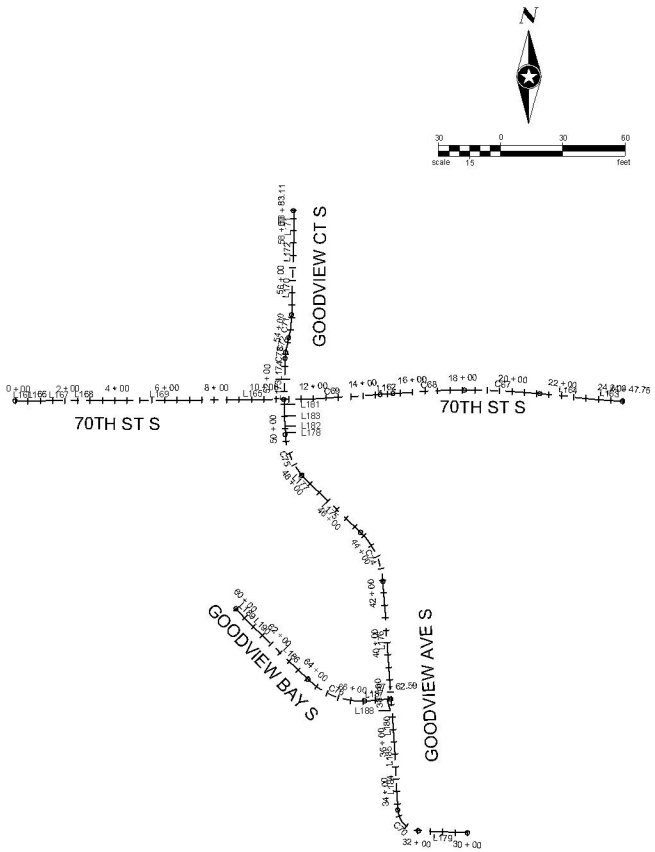
SEH

HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
CHAD E. SETTERHOLM, PE
DATE 02/25/2022 LICENSE NO. 40913

COTTAGE GROVE, MINNESOTA

DETAILS
GOODVIEW AVENUE WATER MAIN EXTENSION

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DATUMS

HORIZONTAL DATUM = NAD83 (2011)
VERTICAL DATUM = NAVD88

BENCHMARKS

TOP NUT HYDRANT NE QUAD GRANADA AVE. S AND 70TH ST. S INTERSECTION:
EL. = 954.15

ALIGNMENT TABULATION - GOODVIEW AVE

POINT ID	POINT	STATION	DELTA	RADIUS	TANGENT	LENGTH	NORTHING	EASTING	BEARING	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING
L179		30+00.00				196.38	135505.8229	463314.6283	N 87° 45' 18" W	30+00.00	31+96.38	135505.8229	463314.6283	135513.5155	463118.3991
C70		31+96.38	082° 57' 03"	89.26	78.90	129.22	135513.5155	463118.3991		31+96.38	33+25.60	135513.5155	463118.3991	135597.2834	463034.9641
L184		33+25.60				205.16	135597.2834	463034.9641	N 02° 59' 27" W	33+25.60	35+30.76	135597.2834	463034.9641	135802.1635	463024.2595
L185		35+30.76				28.76	135802.1635	463024.2595	N 04° 15' 51" W	35+30.76	35+59.52	135802.1635	463024.2595	135830.8450	463022.1210
L180		35+59.52				213.03	135830.8450	463022.1210	N 03° 57' 06" W	35+59.52	37+72.56	135830.8450	463022.1210	136043.3710	463007.4400
L176		37+72.56				474.57	136043.3710	463007.4400	N 03° 58' 01" W	37+72.56	42+47.13	136043.3710	463007.4400	136516.8050	462974.6090
C74		42+47.13	042° 39' 38"	298.27	116.47	222.08	136516.8050	462974.6090		42+47.13	44+69.21	136516.8050	462974.6090	136714.3580	462884.8460
L175		44+69.21				296.20	136714.3580	462884.8460	N 46° 09' 28" W	44+69.21	47+65.42	136714.3580	462884.8460	136919.5310	462671.2080
L177		47+65.42				31.72	136919.5310	462671.2080	N 44° 24' 03" W	47+65.42	47+97.14	136919.5310	462671.2080	136942.1923	462649.0158
C75		47+97.14	034° 00' 33"	301.95	92.34	179.23	136942.1923	462649.0158		47+97.14	49+76.37	136942.1923	462649.0158	137105.4051	462581.5388
L178		49+76.37				18.55	137105.4051	462581.5388	N 00° 14' 03" W	49+76.37	49+94.92	137105.4051	462581.5388	137123.9590	462581.4630
L182		49+94.92				37.49	137123.9590	462581.4630	N 01° 40' 56" W	49+94.92	50+32.41	137123.9590	462581.4630	137161.4310	462580.3625
L183		50+32.41				38.90	137161.4310	462580.3625	N 03° 51' 50" W	50+32.41	50+71.31	137161.4310	462580.3625	137200.2445	462577.7410
L181		50+71.31				56.42	137200.2445	462577.7410	N 01° 31' 10" W	50+71.31	51+27.73	137200.2445	462577.7410	137256.6420	462576.2450
L173		51+27.73				55.83	137256.6420	462576.2450	N 02° 22' 46" E	51+27.73	51+83.56	137256.6420	462576.2450	137312.4250	462578.5630
L174		51+83.56				99.97	137312.4250	462578.5630	N 01° 27' 53" E	51+83.56	52+83.53	137312.4250	462578.5630	137412.3627	462581.1183
C73		52+83.53	009° 11' 55"	149.34	12.01	23.98	137412.3627	462581.1183		52+83.53	53+07.51	137412.3627	462581.1183	137436.1870	462583.5730
C72		53+07.51	005° 47' 07"	602.18	30.43	60.80	137436.1870	462583.5730		53+07.51	53+68.31	137436.1870	462583.5730	137495.7200	462595.8130
C71		53+68.31	015° 15' 27"	347.84	46.59	92.63	137495.7200	462595.8130		53+68.31	54+60.94	137495.7200	462595.8130	137587.2840	462607.8590
L170		54+60.94				214.28	137587.2840	462607.8590	N 01° 15' 32" E	54+60.94	56+75.22	137587.2840	462607.8590	137801.5150	462612.5670
L172		56+75.22				74.95	137801.5150	462612.5670	N 01° 44' 52" E	56+75.22	57+50.16	137801.5150	462612.5670	137876.4260	462614.8530
L171		57+50.16				132.95	137876.4260	462614.8530	N 00° 06' 22" E	57+50.16	58+83.11	137876.4260	462614.8530	138009.3763	462615.0990

ALIGNMENT TABULATION - 70TH STREET S

POINT ID	POINT	STATION	DELTA	RADIUS	TANGENT	LENGTH	NORTHING	EASTING	BEARING	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING
L161		0+00.00				53.41	137241.3160	461495.1370	S 89° 32' 50" E	0+00.00	0+53.41	137241.3160	461495.1370	137240.8940	461548.5430
L166		0+53.41				71.12	137240.8940	461548.5430	N 89° 30' 42" E	0+53.41	1+24.53	137240.8940	461548.5430	137241.5000	461619.6615
L167		1+24.53				101.87	137241.5000	461619.6615	N 89° 55' 48" E	1+24.53	2+26.40	137241.5000	461619.6615	137241.6245	461721.5340
L168		2+26.40				100.01	137241.6245	461721.5340	N 89° 27' 40" E	2+26.40	3+26.41	137241.6245	461721.5340	137242.5650	461821.5350
L169		3+26.41				503.65	137242.5650	461821.5350	N 89° 37' 58" E	3+26.41	8+30.05	137242.5650	461821.5350	137245.7930	462325.1715
L165		8+30.05				250.95	137245.7930	462325.1715	N 89° 32' 51" E	8+30.05	10+81.01	137245.7930	462325.1715	137247.7750	462576.1180
C69		10+81.01	003° 15' 03"	6853.88	194.48	388.86	137247.7750	462576.1180		10+81.01	14+69.87	137247.7750	462576.1180	137267.5880	462964.4180
L162		14+69.87				51.34	137267.5880	462964.4180	N 85° 43' 38" E	14+69.87	15+21.20	137267.5880	462964.4180	137271.4130	463015.6130
C68		15+21.20	004° 28' 53"	3678.85	143.94	287.74	137271.4130	463015.6130		15+21.20	18+08.94	137271.4130	463015.6130	137285.0600	463302.9510
C67		18+08.94	005° 31' 46"	3147.27	151.98	303.73	137285.0600	463302.9510		18+08.94	21+12.67	137285.0600	463302.9510	137270.5770	463606.2200
L164		21+12.67				221.67	137270.5770	463606.2200	S 84° 19' 09" E	21+12.67	23+34.34	137270.5770	463606.2200	137248.6340	463826.8040
L163		23+34.34				113.40	137248.6340	463826.8040	S 85° 59' 43" E	23+34.34	24+47.75	137248.6340	463826.8040	137240.7140	463939.9310

ALIGNMENT TABULATION - GOODVIEW BAY

POINT ID	POINT	STATION	DELTA	RADIUS	TANGENT	LENGTH	NORTHING	EASTING	BEARING	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING
L189		60+00.00				75.98	136406.4837	462384.2194	S 43° 26' 49" E	60+00.00	60+75.98	136406.4837	462384.2194	136351.3215	462436.4695
L190		60+75.98				95.25	136351.3215	462436.4695	S 45° 42' 53" E	60+75.98	61+71.23	136351.3215	462436.4695	136284.8150	462504.6560
L186		61+71.23				234.60	136284.8150	462504.6560	S 46° 07' 44" E	61+71.23	64+05.83	136284.8150	462504.6560	136122.2280	462673.7790
C76		64+05.83	046° 43' 24"	307.60	132.87	250.84	136122.2280	462673.7790		64+05.83	66+56.67	136122.2280	462673.7790	136035.5720	462901.8160
L187		66+56.67				78.22	136035.5720	462901.8160	N 85° 17' 48" E	66+56.67	67+34.89	136035.5720	462901.8160	136041.9855	462979.7690
L188		67+34.89				27.71	136041.9855	462979.7690	N 87° 08' 01" E	67+34.89	67+62.59	136041.9855	462979.7690	136043.3710	463007.4400

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SEH Project	162976
Drawn By	DSJ, JPS
Designed By	CES
Checked By	BSS, DSJ, JPS

Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date

SEH

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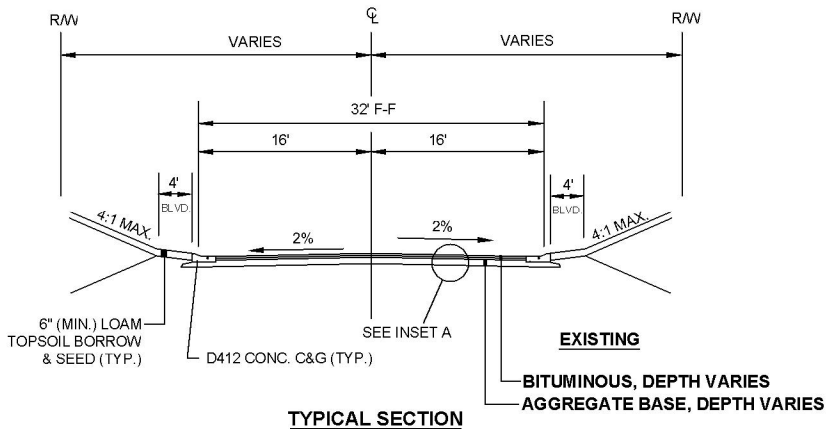
CHAD E. SETTERHOLM, PE

DATE 02/25/2022 LICENSE NO. 40913

COTTAGE GROVE, MINNESOTA

ALIGNMENT PLAN

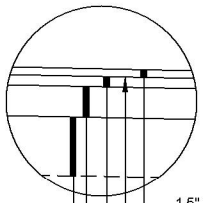
GOODVIEW AVENUE WATER MAIN EXTENSION



TYPICAL SECTION

GOODVIEW AVENUE SOUTH
GOODVIEW BAY SOUTH

INSET A



1.5" TYPE SP 9.5 WEARING COURSE MIXTURE (SPWEA330C - SPECIAL)

2357 BIT. TACK COAT

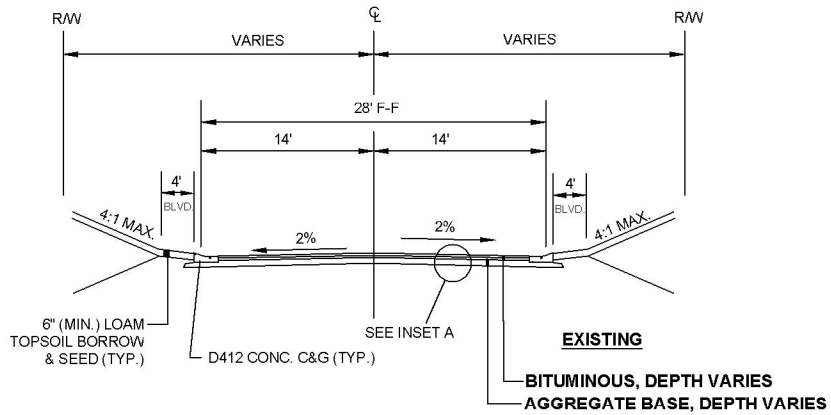
2" TYPE SP 9.5 WEARING COURSE MIXTURE (SPWEA330C)

6" CL. 5 AGGREGATE BASE (MIN.)

12" COMPACTED SUBGRADE

NOTES:

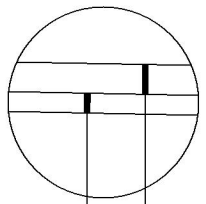
1. **REMOVE & REPLACE CONCRETE C&G AS DIRECTED BY ENGINEER TO ACCOMMODATE WATER MAIN IMPROVEMENTS.**



TYPICAL SECTION

GOODVIEW COURT SOUTH

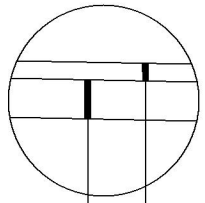
CONCRETE DRIVEWAY



6" CONCRETE DRIVEWAY PAVEMENT

4" CL. 5 AGGREGATE BASE (MIN.)

BITUMINOUS DRIVEWAY

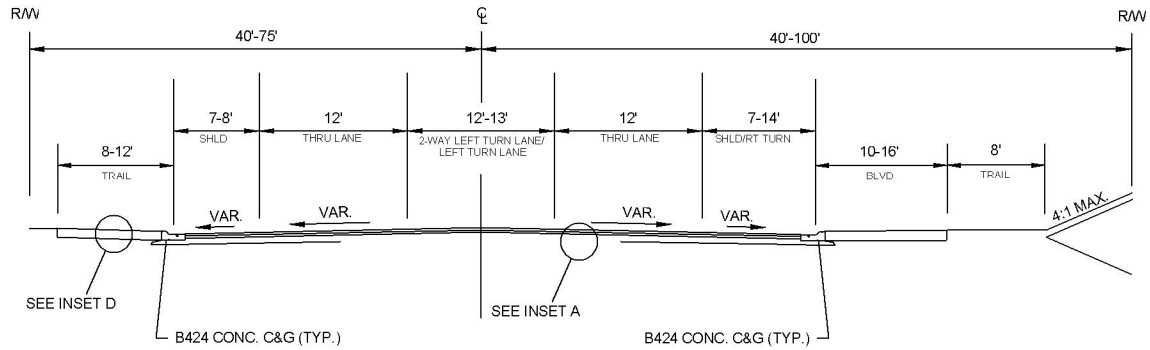


3" TYPE SP 9.5 WEARING COURSE MIXTURE (SPWEA240B)

8" CL. 5 AGGREGATE BASE

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SEH Project	162976	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	**COTTAGE GROVE, MINNESOTA**	**TYPICAL SECTIONS GOODVIEW AVENUE WATER MAIN EXTENSION**	14
Drawn By	DSJ, JPS							CHAD E. SETTERHOLM, PE			of 54
Designed By	CES							DATE 02/25/2022 LICENSE NO. 40913			
Checked By	BSS, DSJ, JPS										

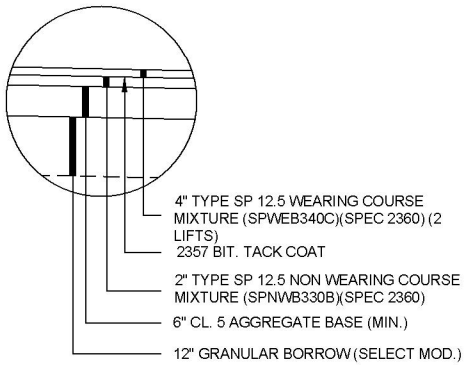


TYPICAL SECTION

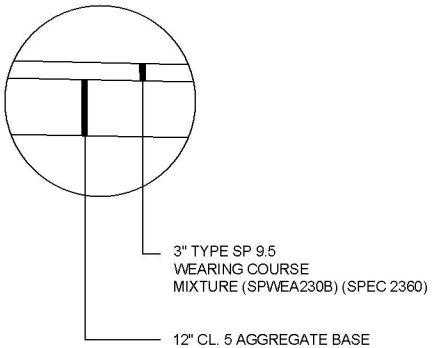
70TH ST S (CSAH 22)
0+00 TO 11+00

INSET A

70TH ST SOUTH FROM FROM STA. 0+00 TO STA. 11+00



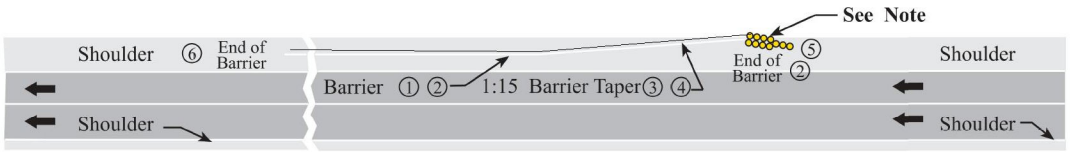
INSET D



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SEH Project	162976	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	**COTTAGE GROVE, MINNESOTA**	**TYPICAL SECTIONS GOODVIEW AVENUE WATER MAIN EXTENSION**	15
Drawn By	DSJ, JPS										
Designed By	CES							CHAD E. SETTERHOLM, PE			
Checked By	BSS, DSJ, JPS							DATE 02/25/2022 LICENSE NO. 40913			of 54

Portable Concrete Barrier Placement



① It is desirable to maintain full shoulder width whenever possible. If that is not possible, the minimum desirable lateral offsets are based on the following posted speed limits:

70 mph - 12.0 feet
60 mph - 8.0 feet
50 mph - 6.5 feet
40 mph - 5.0 feet

For restricted conditions, lesser offsets may be used. The offsets should be a minimum of 2 feet unless the conditions are extreme. Lateral offsets are measured to the bottom of the barrier. Barrier offset from the edge of the thru lane should not exceed 15 feet.

② Desirable treatments for exposed barrier ends are: a connection to existing barrier; impact attenuator; taper away to the edge of the clear zone; and extending through a plate beam guardrail by removing a panel.

For posted speed limits of 30 mph or less, the tapering away from the traffic is desirable and the use of an impact attenuator is optional.

③ A 1:8 taper may be used when the posted speed limit is 35 mph or less.

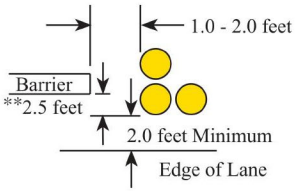
A 1:12 taper may be used when the posted speed limit is 45 mph or less.

④ If the barrier is to be extended beyond the shoulder, additional fill will be needed in order to provide a flat (1:10) approach area to the barrier. (see Shoulder Fill detail in Figure 6F-6, Sheet 2 of 2)

⑤ The impact attenuator should be offset a minimum of 2 feet from the edge of the thru lane (see Sand Barrel Offset detail). The impact attenuator should be oriented to accommodate the probable impact angle of an encroaching vehicle. For most roadside conditions, an angle of approximately 10 degrees, as measured between the highway and the impact attenuators longitudinal centerline, is considered appropriate (see Shoulder Fill detail). For Sand Barrel Arrangement, see detail of Figure 6F-6, sheet 2 of 2).

⑥ For Two-Lane, Two-Way traffic, both ends of the barrier should be treated in the same manner as described in ②.

Sand Barrel Offset



** Distance may be reduced to a minimum of 1.25 feet. This is acceptable only where a greater offset would cause unacceptable interference with traffic.

Temporary Traffic Control Distance Charts

Posted Speed Limit Prior to Work Starting (mph)		Advance Warning Sign Spacing (A) feet	Decision Sight Distance (D) feet	Taper Length (12 ft lane) (L) feet	Shifting Taper (12 ft lane) (L/2) feet	Typical Shoulder Taper (L/3) feet	Buffer Space (B) feet
0-30	G = 25 ft.	100	550	200	100	75	200
35-40		325	700	325	175	125	305
45-50	G = 50 ft.	600	900	600	300	200	425
55		750	1200	700	350	250	500
60-65		1000	1400	800	400	275	650
70-75		1200	1600	900	450	300	820

Posted Speed Limit Prior to Work Starting (mph)		Advance Warning Following Distance (F) feet	Roll Ahead Distance Charts: Recommended Spacing for Vehicles Weighing 9,900 to 22,000 lbs GVW (R) feet		Recommended Spacing for Vehicles Weighing Greater than 22,000 lbs GVW (R) feet	
			Stationary Operation	Moving Operation 15 MPH max	Stationary Operation	Moving Operation 15 MPH max
0-30	G = 25 ft.	100 - 550	100	100	75	100
35-40		325 - 700	100	100	75	100
45-50	G = 50 ft.	600 - 900	125	175	100	150
55		750 - 1200	125	175	100	150
60-65		1000 - 1400	175	225	150	175
70-75		1200 - 1600	175	225	150	175

Shadow and Protection Vehicle wheels should be pointed straight ahead.

GENERAL NOTES:
1. USE PORTABLE CONCRETE BARRIER(S) TO PROTECT ACTIVE WORK ZONE AREA(S)
2. ALL TRAFFIC CONTROL DEVICES SAND SIGNING SHALL CONFORM TO THE "MINNESOTA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MN MUTCD), INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.
3. ALL TRAFFIC CONTROL DEVICES ON ROADS OPEN TO TRAFFIC THAT ARE NOT CONSISTENT WITH TRAFFIC OPERATIONS SHALL BE COVERED, REMOVED, OR REVISED (INCIDENTAL) AS DIRECTED BY THE ENGINEER
4. ACCESS TO ALL PROPERTIES TO BE MAINTAINED THROUGHOUT THE PROJECT. IF ACCESS IS DISRUPTED DUE TO PROJECT WORK, COORDINATION BETWEEN THE CONTRACTOR AND LANDOWNER/RESIDENT MUST BE MADE PRIOR TO CLOSURE.
5. A MINIMUM 7 DAY ADVANCE NOTICE OF CSAH 22 ROAD WORK MUST BE POSTED.
6. CONTRACTOR TO SUBMIT TEMPORARY TRAFFIC CONTROL PLANS BASED UPON THESE LAYOUTS 7 DAYS PRIOR TO COMMENCING CONSTRUCTION RELATED ACTIVITIES.

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SEH Project 162976
Drawn By DSJ, JPS
Designed By CES
Checked By BSS, DSJ, JPS

Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date

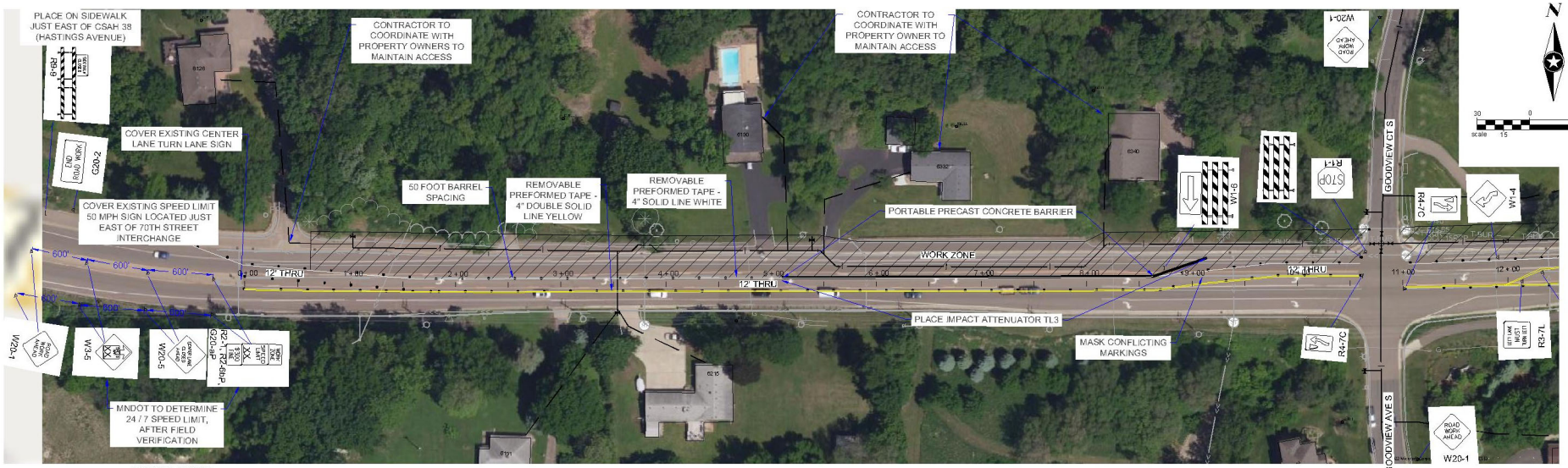
HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

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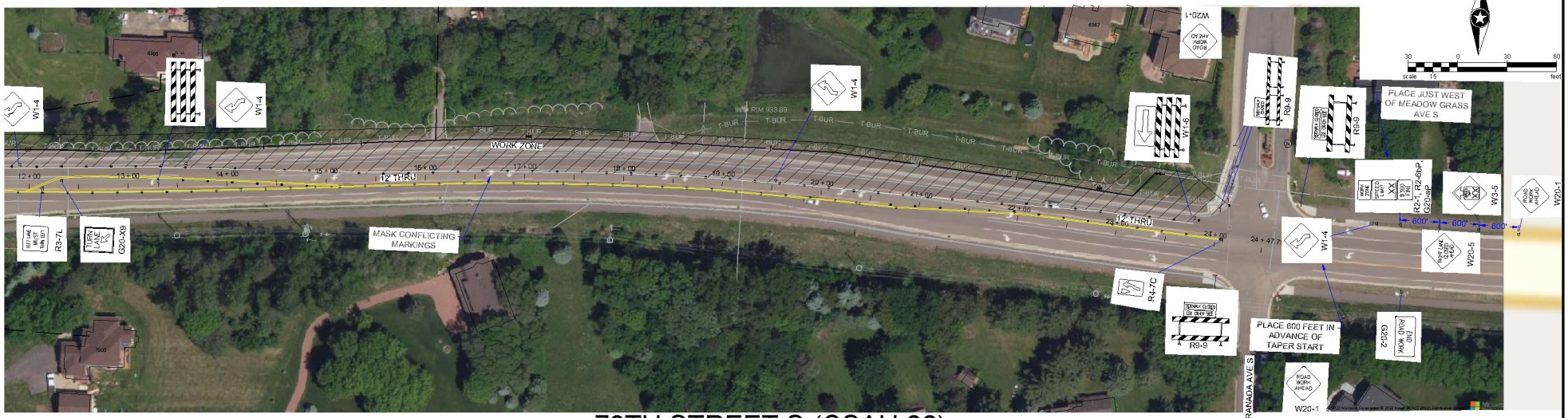
COTTAGE GROVE, MINNESOTA

70TH ST S (CSAH 22)
TRAFFIC CONTROL DETAILS
GOODVIEW AVENUE WATER MAIN EXTENSION



GENERAL NOTES:
1. DRUM LIKE CHANNELIZERS ARE SPACED AT 50' UNLESS LABELED OTHERWISE.
2. 2. DRUM LIKE CHANNELIZERS SHALL BE SPACED AT 25' ON TAPERS.

70TH STREET S (CSAH 22)



70TH STREET S (CSAH 22)

SEH Project	162976
Drawn By	DSJ, JPS
Designed By	CES
Checked By	BSS, DSJ JPS

Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date

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CHAD E. SETTERHOLM, PE

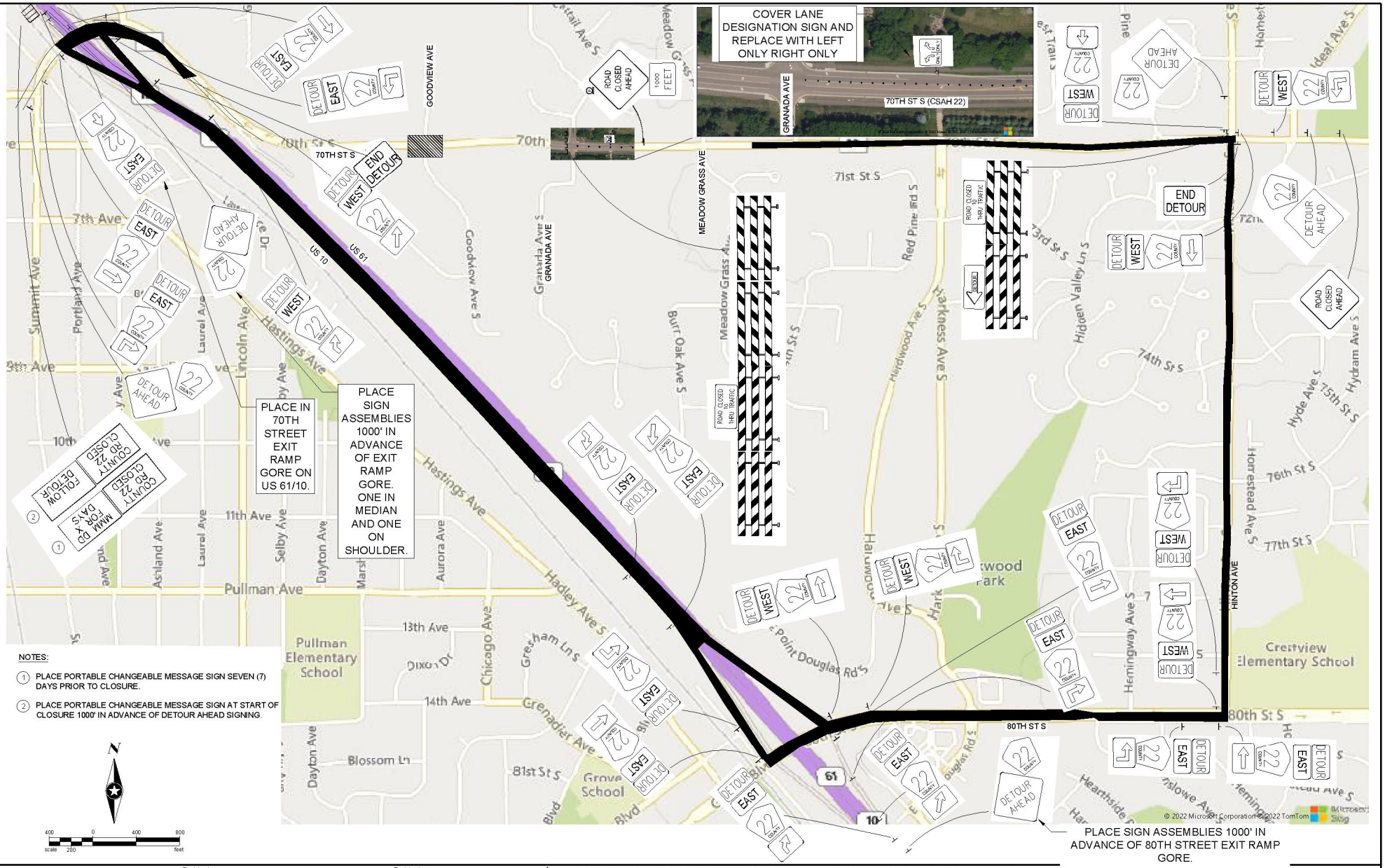
DATE 02/25/2022 LICENSE NO. 40913

COTTAGE GROVE, MINNESOTA

70TH ST S (CSAH 22)
TRAFFIC CONTROL PLAN
GOODVIEW AVENUE WATER MAIN EXTENSION

17 of 54

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		Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
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DATE 02/25/2022 LICENSE NO. 40913

COTTAGE GROVE, MINNESOTA

DETOUR PLAN
GOODVIEW AVENUE WATER MAIN EXTENSION

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scale 200 feet

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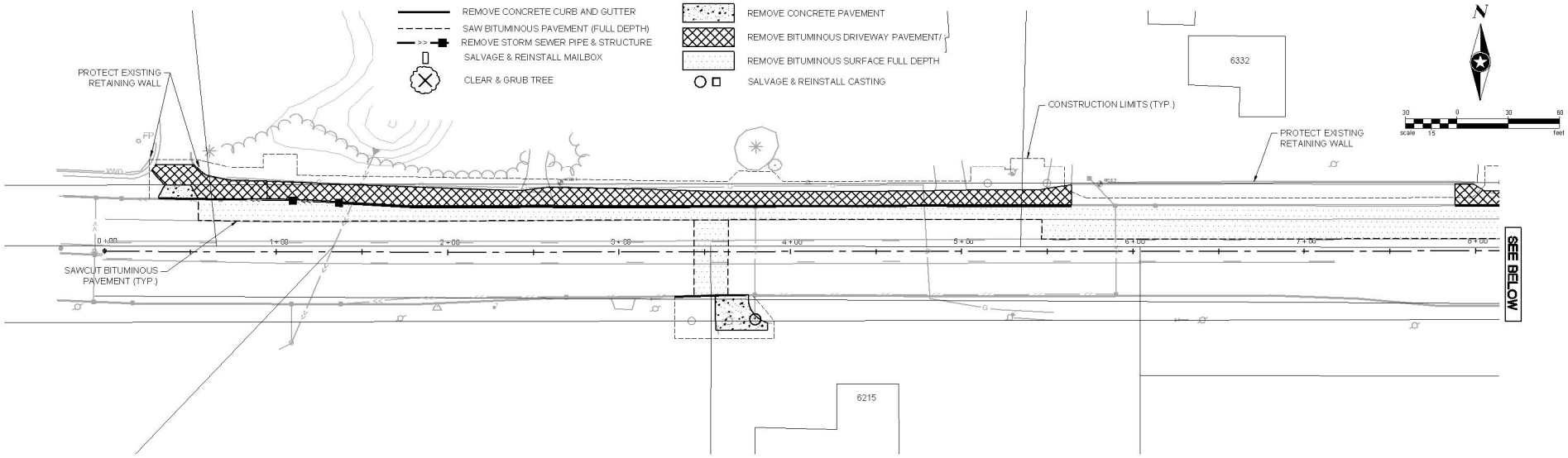
1. PLACE PORTABLE CHANGEABLE MESSAGE SIGN SEVEN (7) DAYS PRIOR TO CLOSURE.
2. PLACE PORTABLE CHANGEABLE MESSAGE SIGN AT START OF CLOSURE 1000' IN ADVANCE OF DETOUR AHEAD SIGNING.

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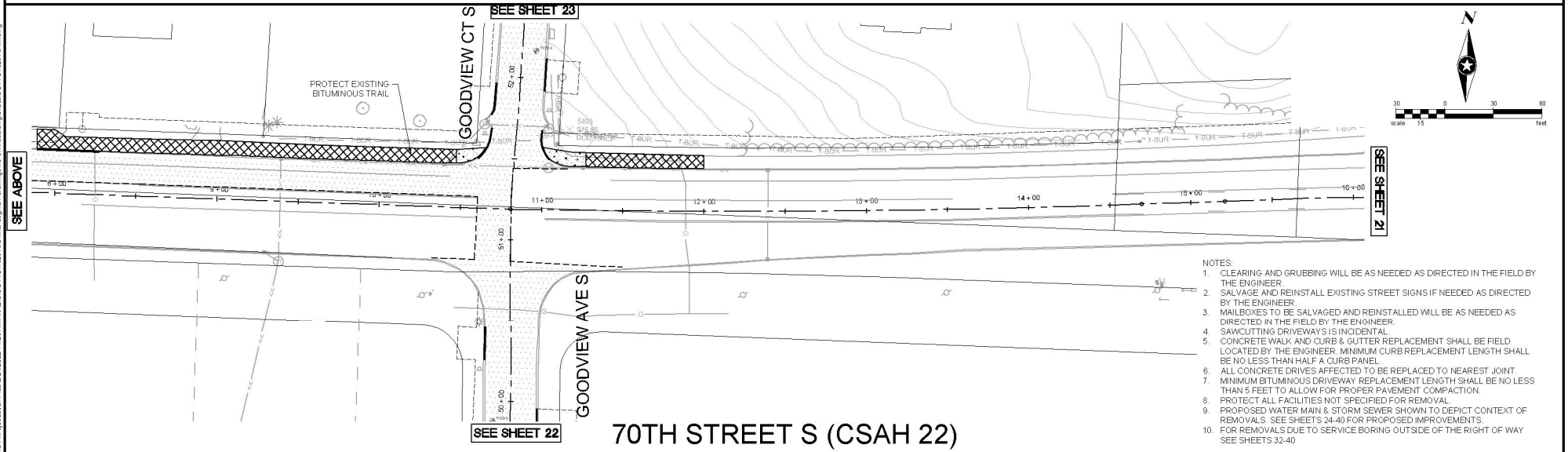
SEH Project	162976	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date	SEH	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. CHAD E. SETTERHOLM, PE DATE 02/25/2022 LICENSE NO. 40913	**COTTAGE GROVE, MINNESOTA**	**DETOUR PLAN GOODVIEW AVENUE WATER MAIN EXTENSION**	19 of 54
Drawn By	DSJ, JPS								
Designed By	CES								
Checked By	BSS, DSJ, JPS								

LEGEND

- REMOVE CONCRETE CURB AND GUTTER
- SAW BITUMINOUS PAVEMENT (FULL DEPTH)
- REMOVE STORM SEWER PIPE & STRUCTURE
- SALVAGE & REINSTALL MAILBOX
- CLEAR & GRUB TREE
- REMOVE CONCRETE PAVEMENT
- REMOVE BITUMINOUS DRIVEWAY PAVEMENT/
- REMOVE BITUMINOUS SURFACE FULL DEPTH
- SALVAGE & REINSTALL CASTING



70TH STREET S (CSAH 22)



70TH STREET S (CSAH 22)

NOTES:

1. CLEARING AND GRUBBING WILL BE AS NEEDED AS DIRECTED IN THE FIELD BY THE ENGINEER.
2. SALVAGE AND REINSTALL EXISTING STREET SIGNS IF NEEDED AS DIRECTED BY THE ENGINEER.
3. MAILBOXES TO BE SALVAGED AND REINSTALLED WILL BE AS NEEDED AS DIRECTED IN THE FIELD BY THE ENGINEER.
4. SAWCUTTING DRIVEWAYS IS INCIDENTAL.
5. CONCRETE WALK AND CURB & GUTTER REPLACEMENT SHALL BE FIELD LOCATED BY THE ENGINEER. MINIMUM CURB REPLACEMENT LENGTH SHALL BE NO LESS THAN HALF A CURB PANEL.
6. ALL CONCRETE DRIVES AFFECTED TO BE REPLACED TO NEAREST JOINT.
7. MINIMUM BITUMINOUS DRIVEWAY REPLACEMENT LENGTH SHALL BE NO LESS THAN 5 FEET TO ALLOW FOR PROPER PAVEMENT COMPACTION.
8. PROTECT ALL FACILITIES NOT SPECIFIED FOR REMOVAL.
9. PROPOSED WATER MAIN & STORM SEWER SHOWN TO DEPICT CONTEXT OF REMOVALS. SEE SHEETS 24-40 FOR PROPOSED IMPROVEMENTS.
10. FOR REMOVALS DUE TO SERVICE BORING OUTSIDE OF THE RIGHT OF WAY SEE SHEETS 32-40

SEH Project	162976
Drawn By	DSJ, JPS
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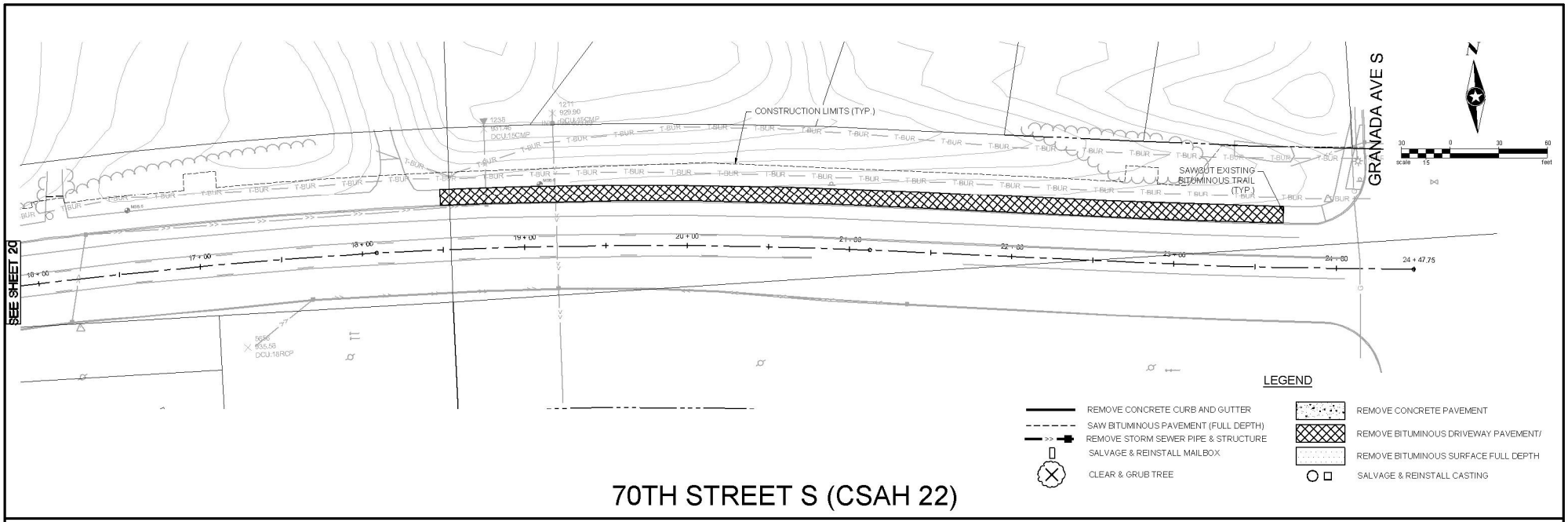
DATE 02/25/2022 LICENSE NO. 40913

COTTAGE GROVE, MINNESOTA

REMOVAL PLAN
GOODVIEW AVENUE WATER MAIN EXTENSION

20 of 54

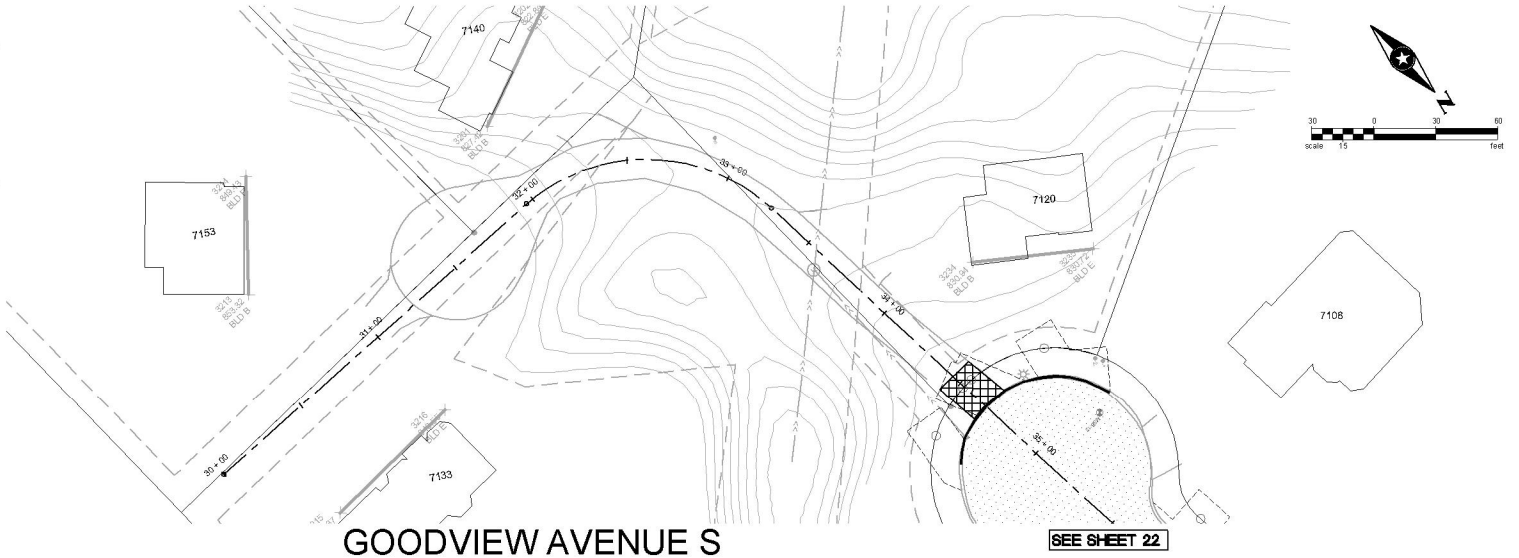
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70TH STREET S (CSAH 22)

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GOODVIEW AVENUE S

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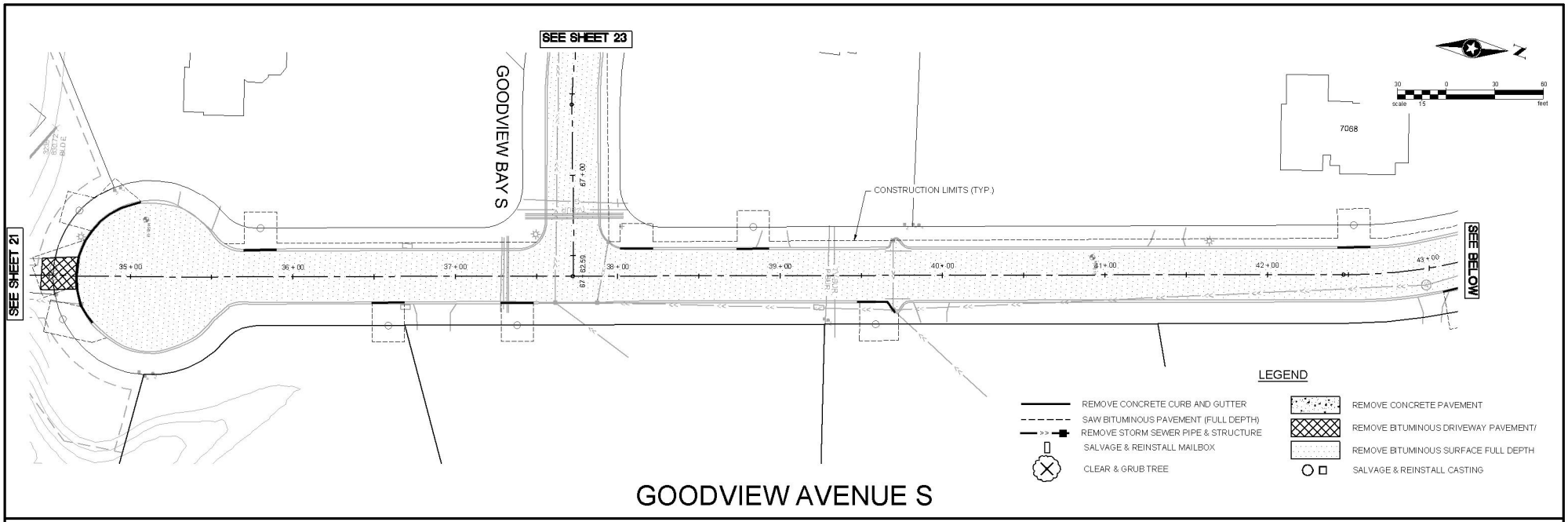
DATE 02/25/2022 LICENSE NO. 40913

COTTAGE GROVE, MINNESOTA

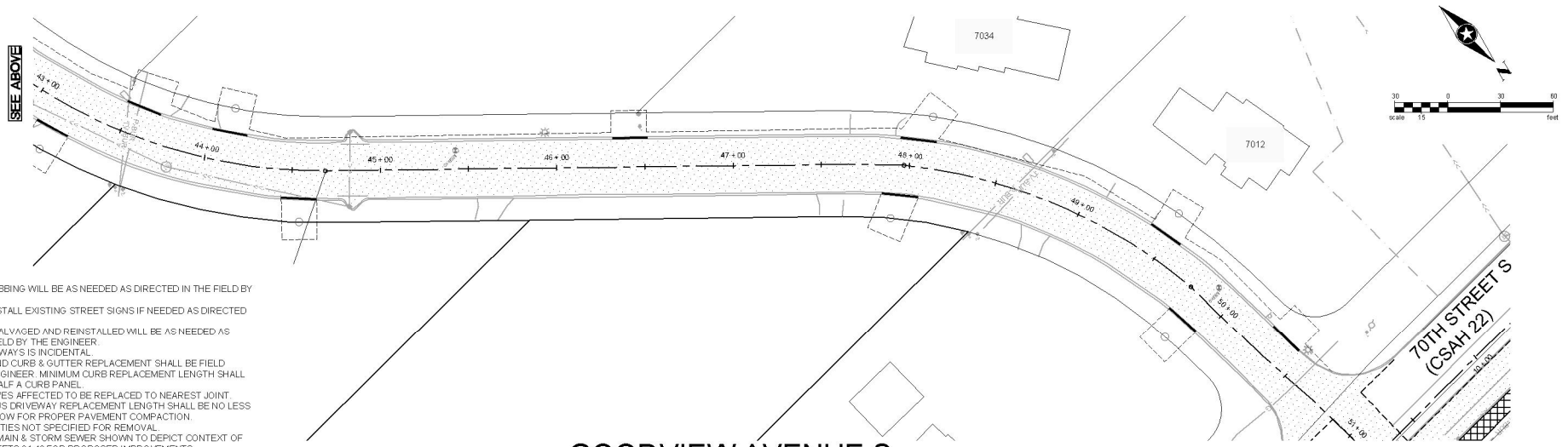
REMOVAL PLAN
GOODVIEW AVENUE WATER MAIN EXTENSION

21 of 54

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GOODVIEW AVENUE S



GOODVIEW AVENUE S

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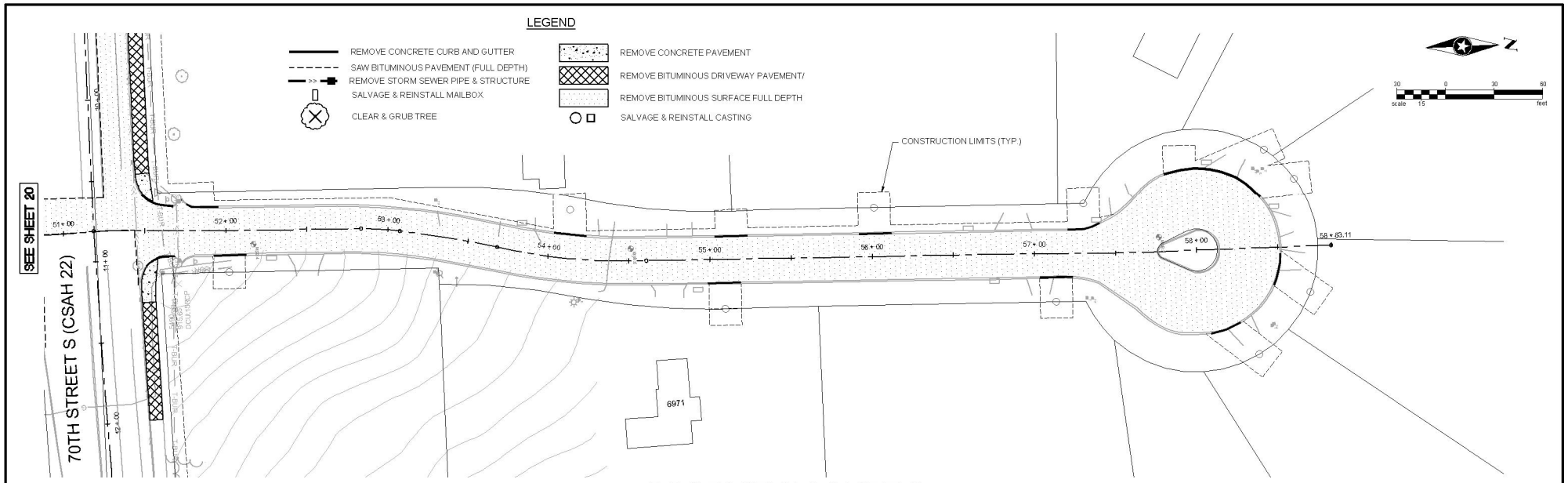
CHAD E. SETTERHOLM, PE

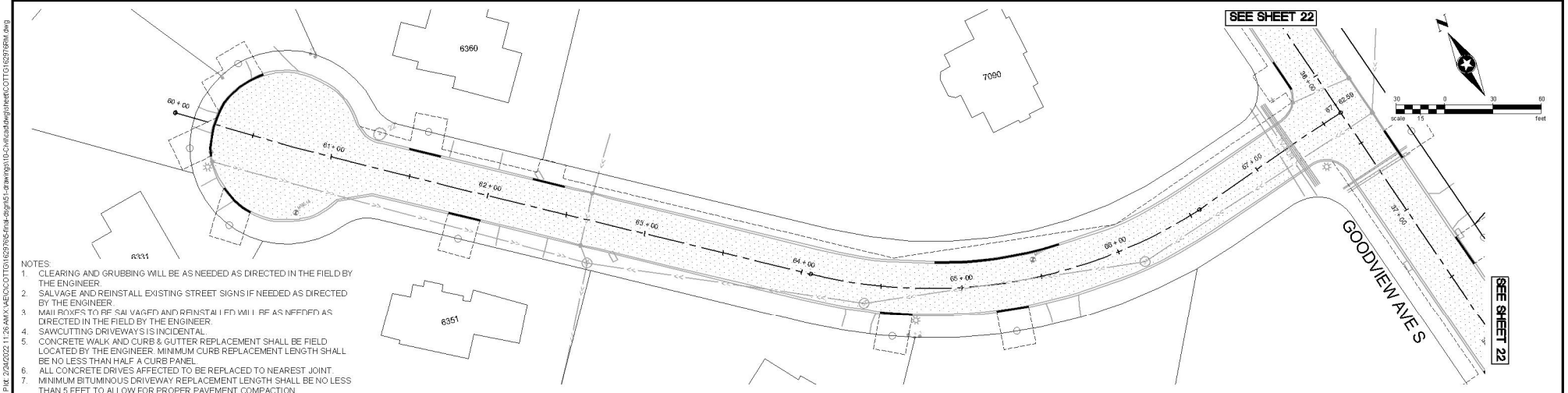
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COTTAGE GROVE, MINNESOTA

REMOVAL PLAN
GOODVIEW AVENUE WATER MAIN EXTENSION

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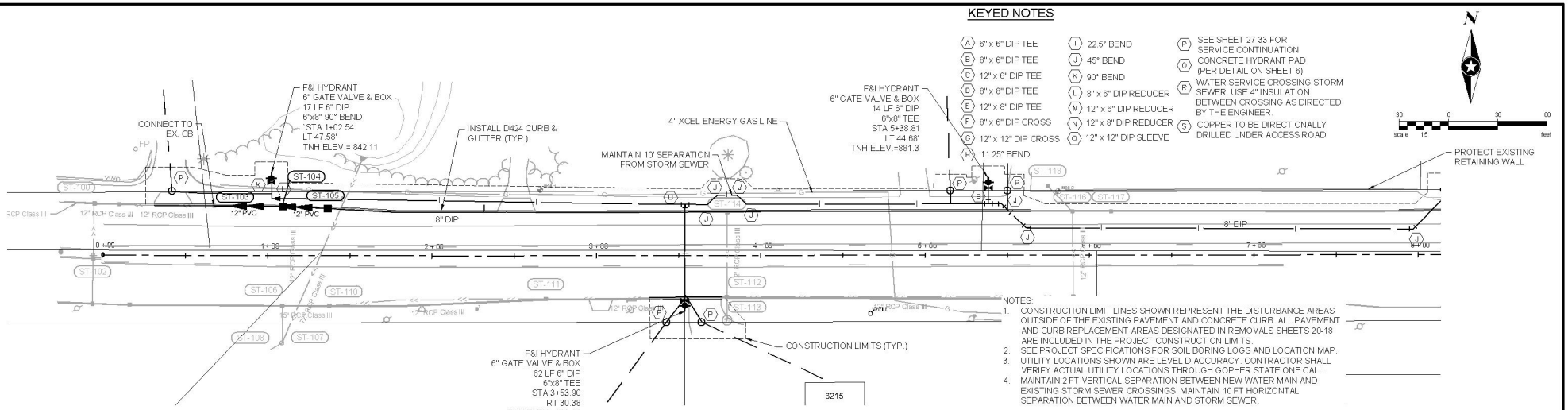
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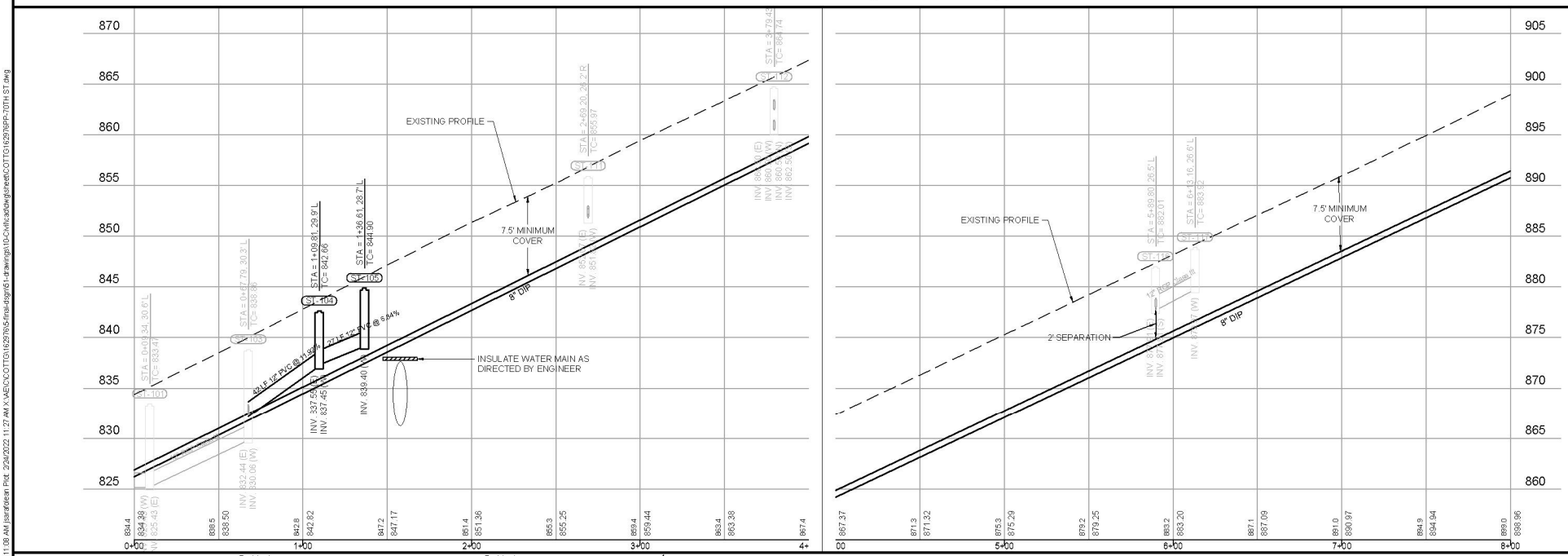
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COTTAGE GROVE, MINNESOTA

REMOVAL PLAN
GOODVIEW AVENUE WATER MAIN EXTENSION

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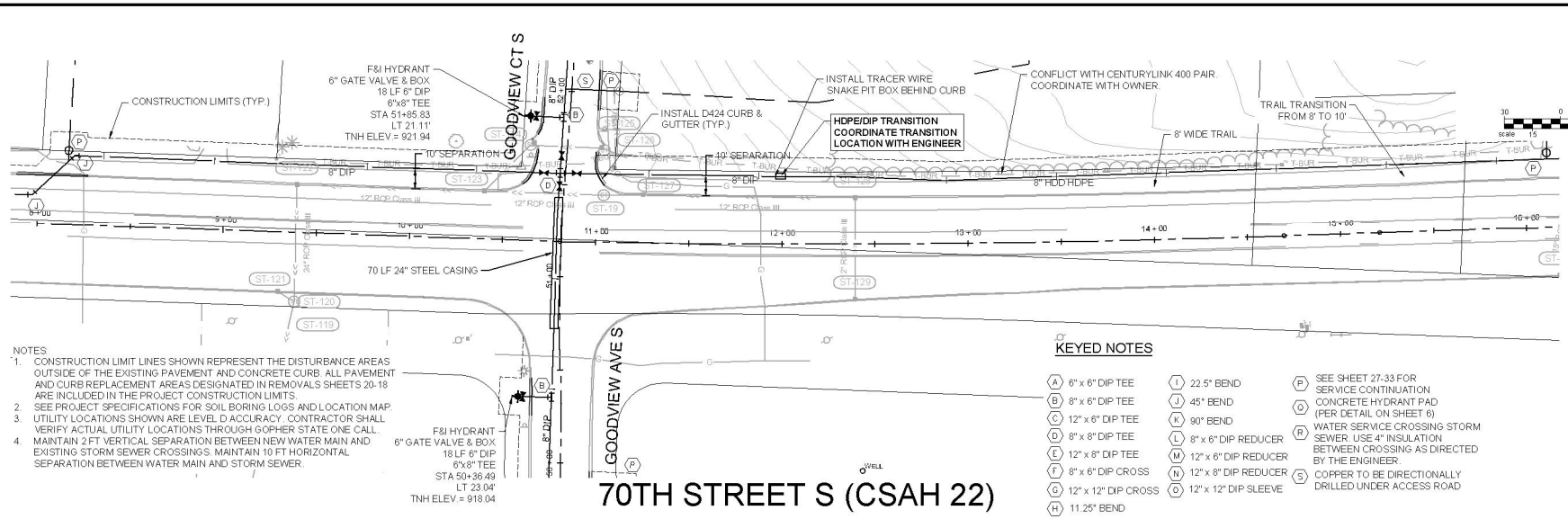
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COTTAGE GROVE, MINNESOTA

70TH STREET (CSAH 22) PLAN AND PROFILE GOODVIEW AVENUE WATER MAIN EXTENSION

24 of 54

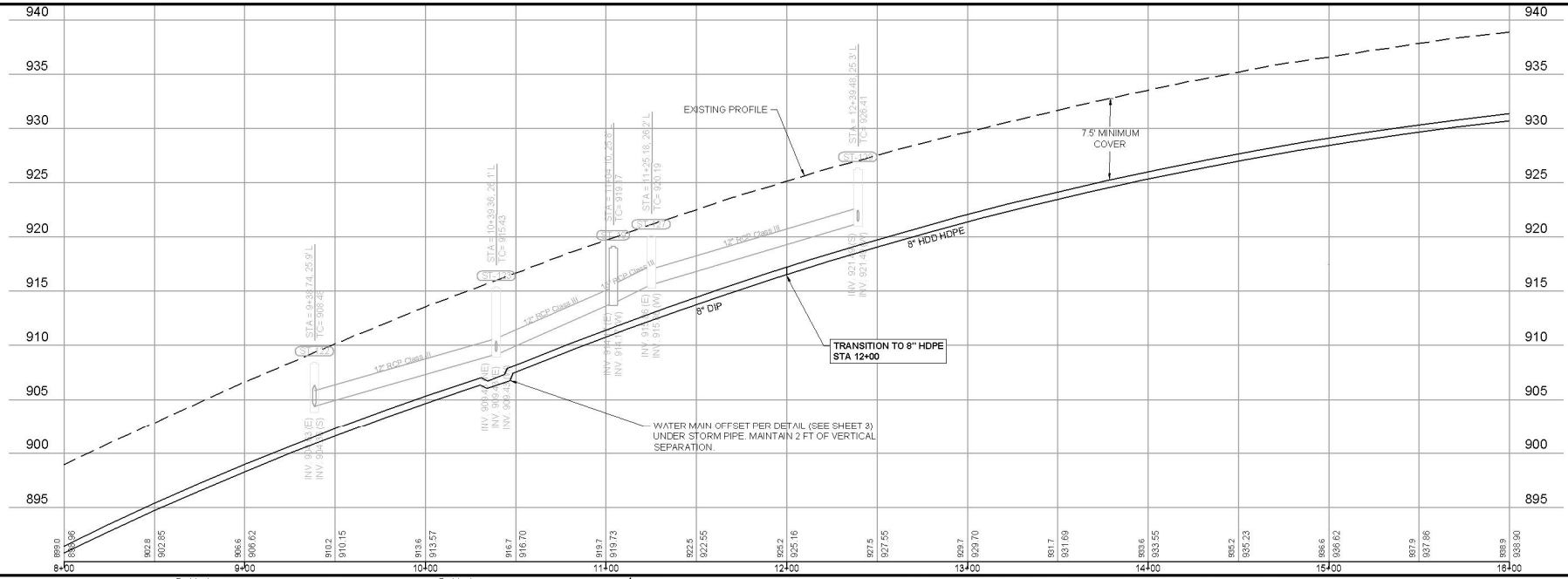
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NOTES:
1. CONSTRUCTION LIMIT LINES SHOWN REPRESENT THE DISTURBANCE AREAS OUTSIDE OF THE EXISTING PAVEMENT AND CONCRETE CURB. ALL PAVEMENT AND CURB REPLACEMENT AREAS DESIGNATED IN REMOVALS SHEETS 20-18 ARE INCLUDED IN THE PROJECT CONSTRUCTION LIMITS.
2. SEE PROJECT SPECIFICATIONS FOR SOIL BORING LOGS AND LOCATION MAP.
3. UTILITY LOCATIONS SHOWN ARE LEVEL D ACCURACY. CONTRACTOR SHALL VERIFY ACTUAL UTILITY LOCATIONS THROUGH GOPHER STATE ONE CALL.
4. MAINTAIN 2 FT VERTICAL SEPARATION BETWEEN NEW WATER MAIN AND EXISTING STORM SEWER CROSSINGS. MAINTAIN 10 FT HORIZONTAL SEPARATION BETWEEN WATER MAIN AND STORM SEWER.

KEYED NOTES

A	6" x 6" DIP TEE	I	22.5° BEND	P	SEE SHEET 27-33 FOR SERVICE CONTINUATION
B	8" x 6" DIP TEE	J	45° BEND	Q	CONCRETE HYDRANT PAD (PER DETAIL ON SHEET 6)
C	12" x 6" DIP TEE	K	90° BEND	R	WATER SERVICE CROSSING STORM SEWER. USE 4" INSULATION BETWEEN CROSSING AS DIRECTED BY THE ENGINEER.
D	8" x 8" DIP TEE	L	8" x 6" DIP REDUCER	S	COPPER TO BE DIRECTIONALLY DRILLED UNDER ACCESS ROAD
E	12" x 8" DIP TEE	M	12" x 6" DIP REDUCER		
F	8" x 6" DIP CROSS	N	12" x 8" DIP REDUCER		
G	12" x 12" DIP CROSS	O	12" x 12" DIP SLEEVE		
H	11.25° BEND				



SEH Project	162976
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Designed By	CES
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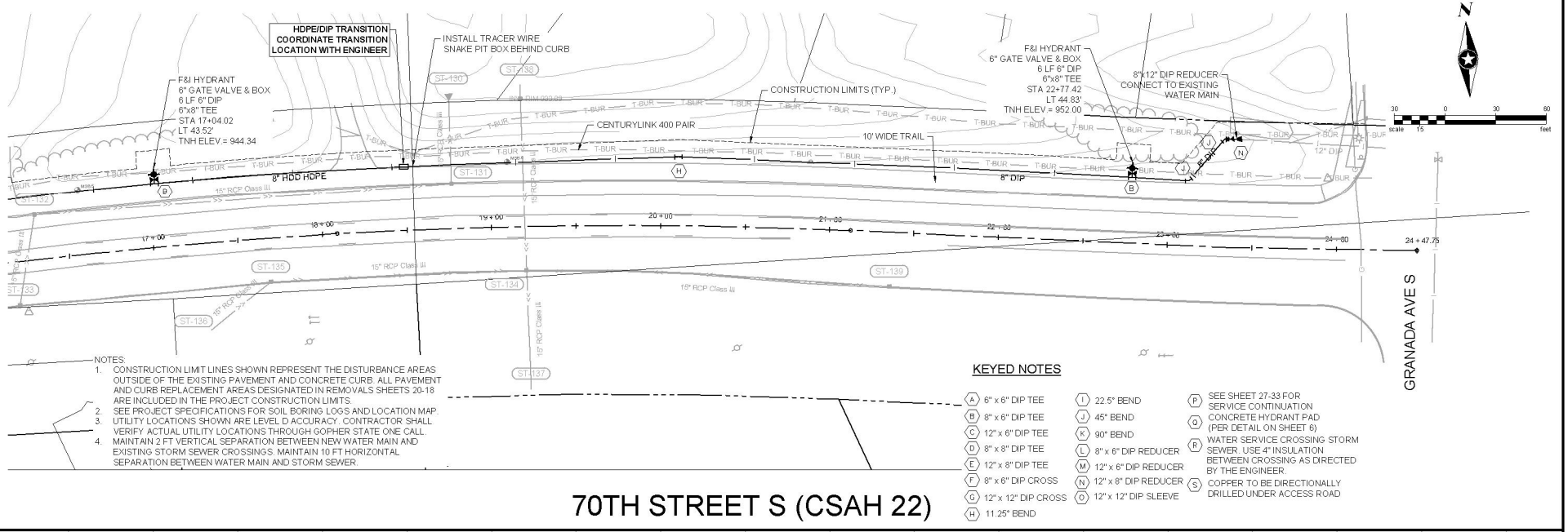
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COTTAGE GROVE, MINNESOTA

70TH STREET (CSAH 22) PLAN AND PROFILE GOODVIEW AVENUE WATER MAIN EXTENSION

25 of 54

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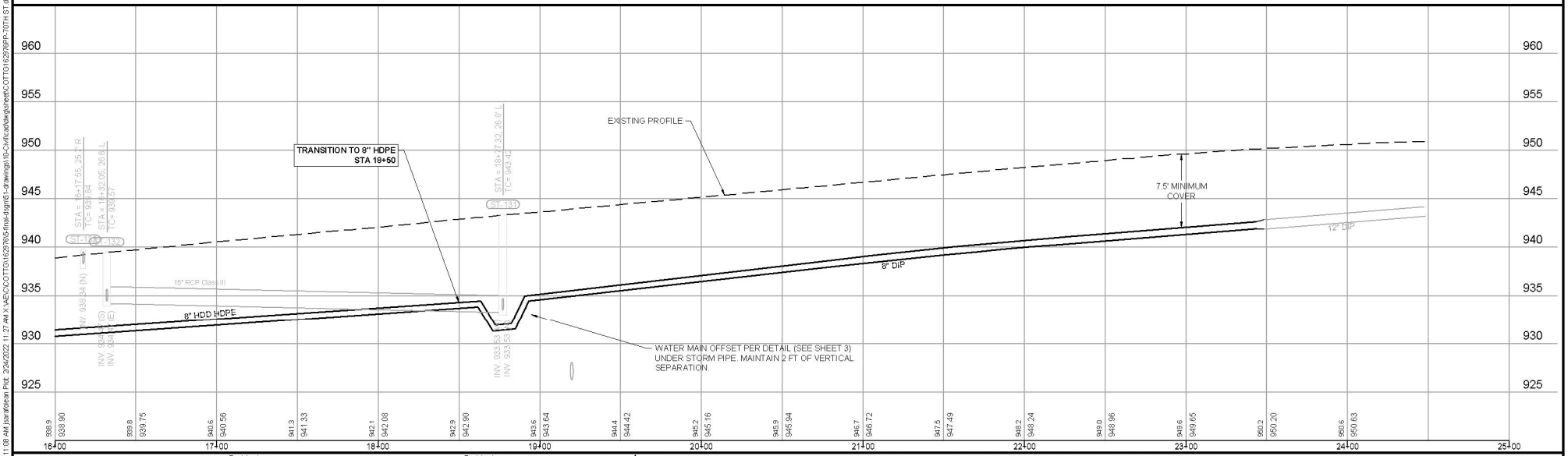


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- (A) 6" x 6" DIP TEE
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- (C) 12" x 6" DIP TEE
- (D) 8" x 8" DIP TEE
- (E) 12" x 8" DIP TEE
- (F) 8" x 6" DIP CROSS
- (G) 12" x 12" DIP CROSS
- (H) 11.25° BEND
- (I) 22.5° BEND
- (J) 45° BEND
- (K) 90° BEND
- (L) 8" x 6" DIP REDUCER
- (M) 12" x 6" DIP REDUCER
- (N) 12" x 8" DIP REDUCER
- (O) 12" x 12" DIP SLEEVE
- (P) SEE SHEET 27-33 FOR SERVICE CONTINUATION
- (Q) CONCRETE HYDRANT PAD (PER DETAIL ON SHEET 6)
- (R) WATER SERVICE CROSSING STORM SEWER. USE 4" INSULATION BETWEEN CROSSING AS DIRECTED BY THE ENGINEER.
- (S) COPPER TO BE DIRECTIONALLY DRILLED UNDER ACCESS ROAD

70TH STREET S (CSAH 22)



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COTTAGE GROVE, MINNESOTA

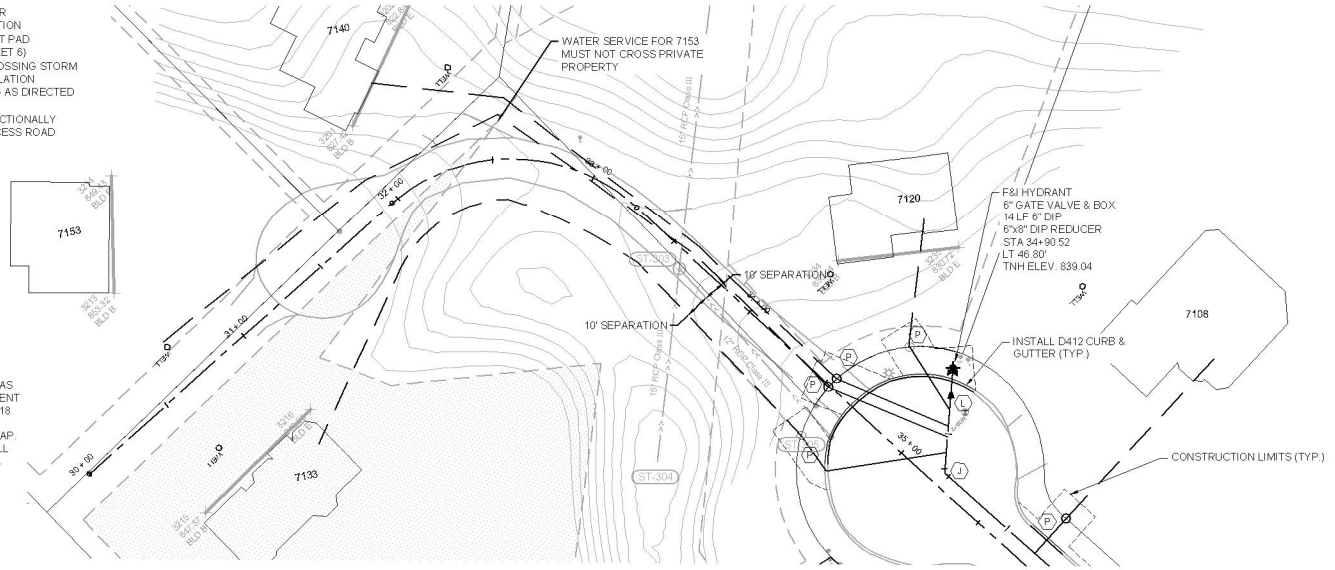
70TH STREET (CSAH 22) PLAN AND PROFILE GOODVIEW AVENUE WATER MAIN EXTENSION

26 of 54

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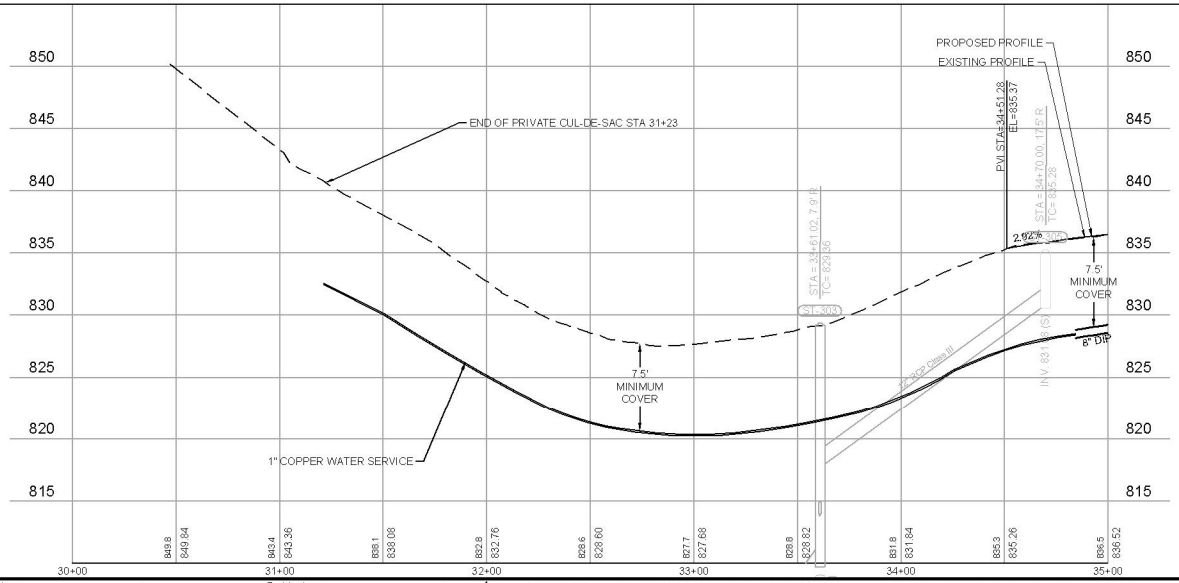
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- (M) 12" x 6" DIP REDUCER
- (N) 12" x 8" DIP REDUCER
- (O) 12" x 12" DIP SLEEVE
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- (Q) CONCRETE HYDRANT PAD (PER DETAIL ON SHEET 6)
- (R) WATER SERVICE CROSSING STORM SEWER. USE 4" INSULATION BETWEEN CROSSING AS DIRECTED BY THE ENGINEER.
- (S) COPPER TO BE DIRECTIONALLY DRILLED UNDER ACCESS ROAD



NOTES:
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4. MAINTAIN 2 FT VERTICAL SEPARATION BETWEEN NEW WATER MAIN AND EXISTING STORM SEWER CROSSINGS. MAINTAIN 10 FT HORIZONTAL SEPARATION BETWEEN WATER MAIN AND STORM SEWER.

GOODVIEW AVENUE S



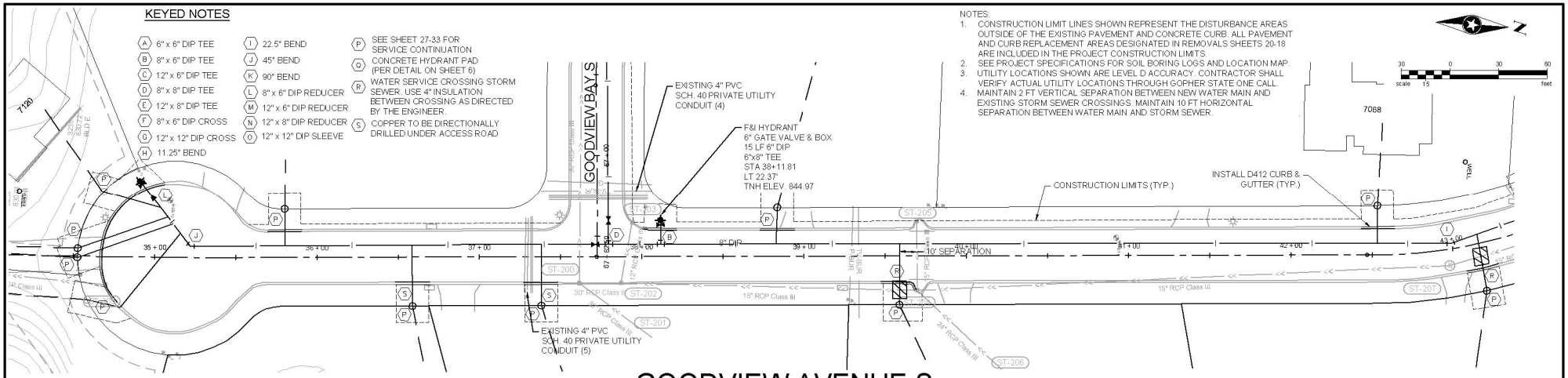
SEH Project	162976	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	**COTTAGE GROVE, MINNESOTA**	GOODVIEW AVENUE PLAN AND PROFILE GOODVIEW AVENUE WATER MAIN EXTENSION	27 of 54
Drawn By	DSJ, JPS										
Designed By	CES							CHAD E. SETTERHOLM, PE			
Checked By	BSS, DSJ JPS							DATE 02/25/2022 LICENSE NO. 40913			

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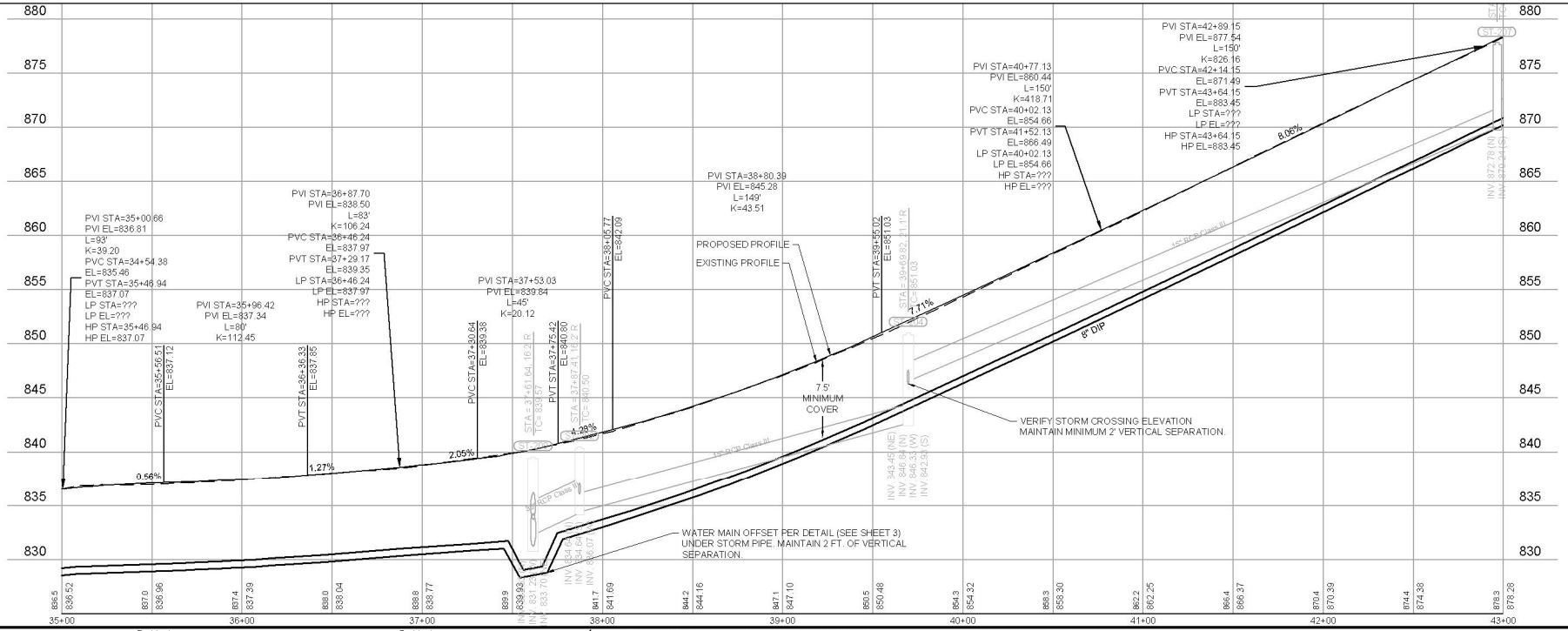
KEYED NOTES

- (A) 6" x 6" DIP TEE
- (B) 8" x 6" DIP TEE
- (C) 12" x 6" DIP TEE
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- (P) SEE SHEET 27-33 FOR SERVICE CONTINUATION
- (Q) CONCRETE HYDRANT PAD (PER DETAIL ON SHEET 6)
- (R) WATER SERVICE CROSSING STORM SEWER. USE 4" INSULATION BETWEEN CROSSING AS DIRECTED BY THE ENGINEER.
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GOODVIEW AVENUE S



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CHAD E. SETTERHOLM, PE

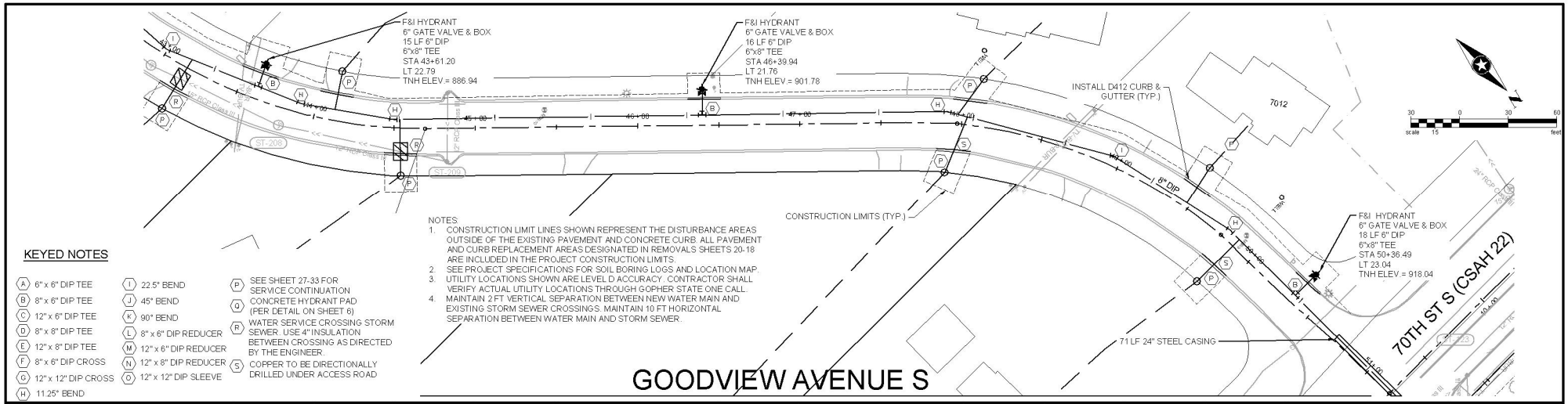
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COTTAGE GROVE, MINNESOTA

GOODVIEW AVENUE PLAN AND PROFILE
GOODVIEW AVENUE WATER MAIN EXTENSION

28 of 54

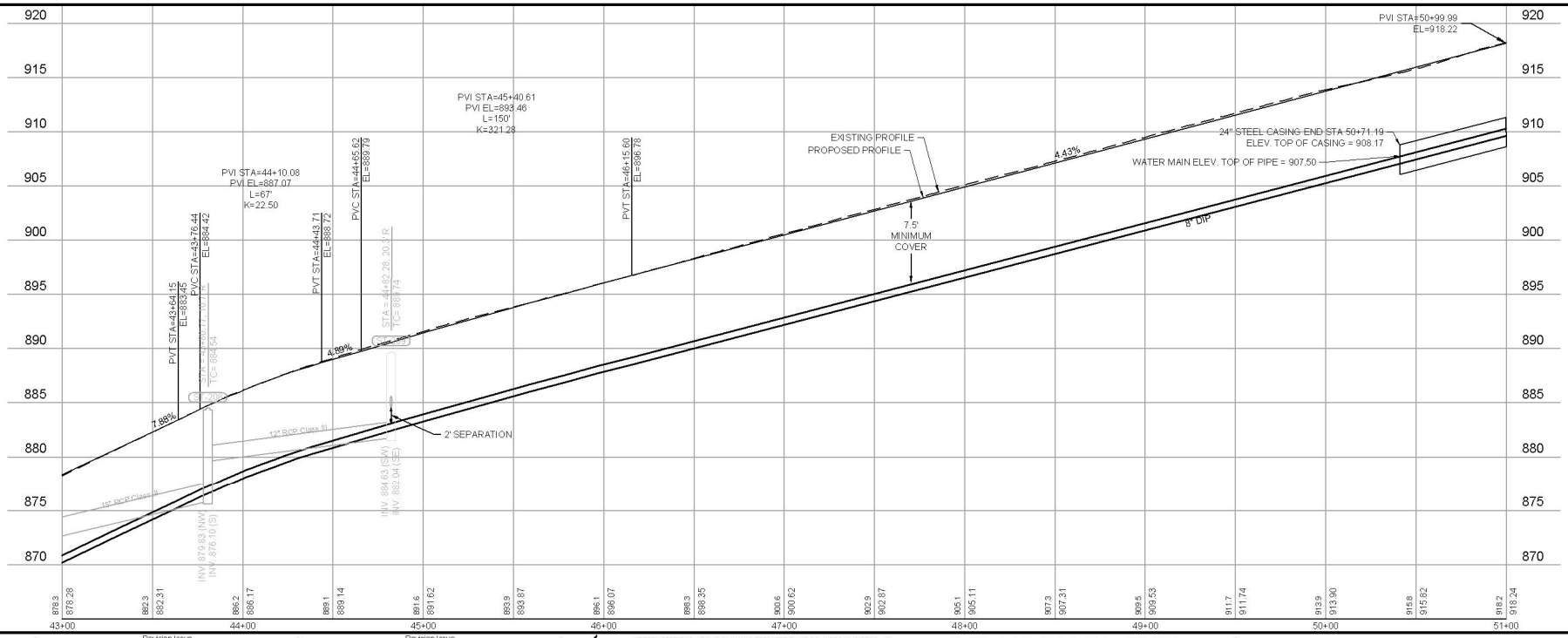
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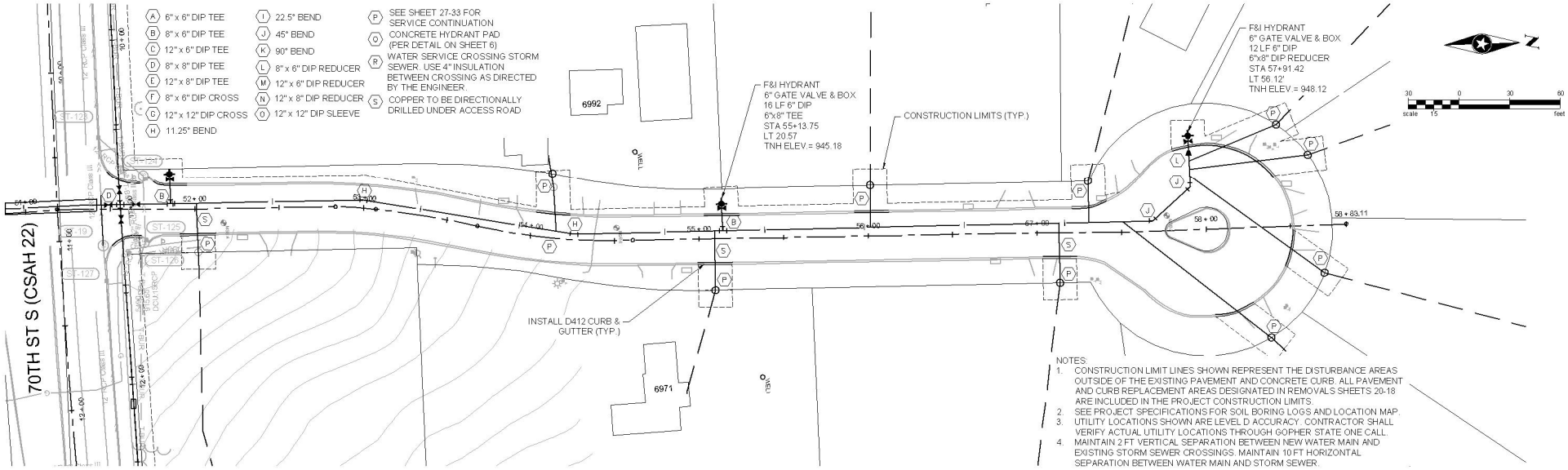
COTTAGE GROVE, MINNESOTA

GOODVIEW AVENUE PLAN AND PROFILE
GOODVIEW AVENUE WATER MAIN EXTENSION

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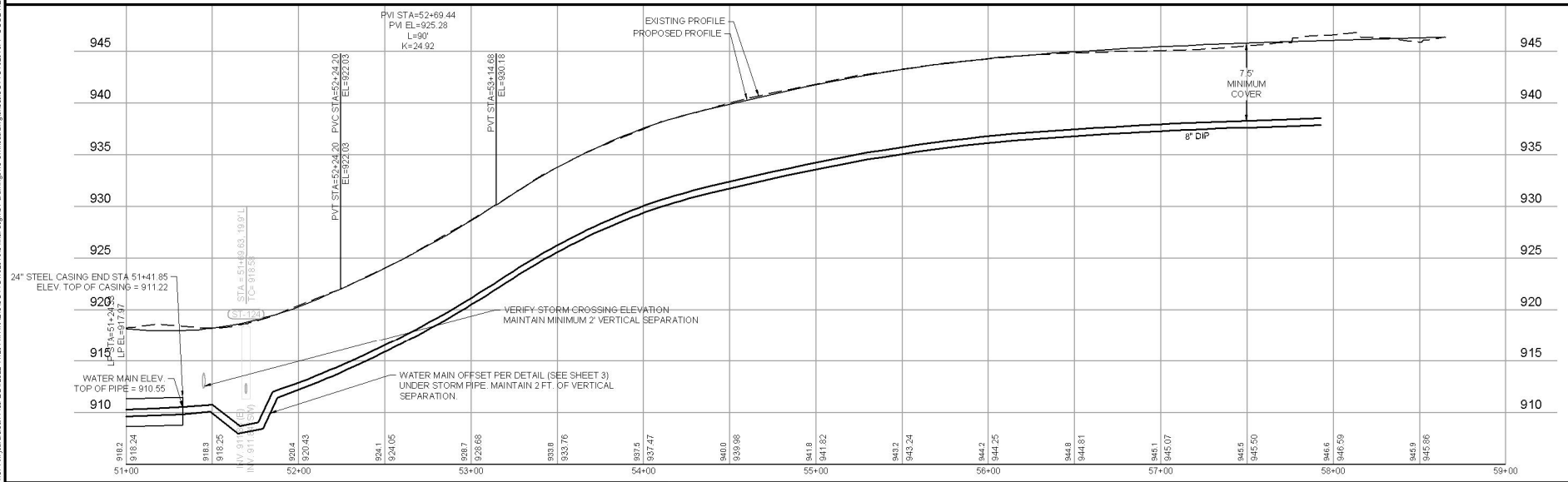
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GOODVIEW COURT S



SEH Project	162976
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Designed By	CES
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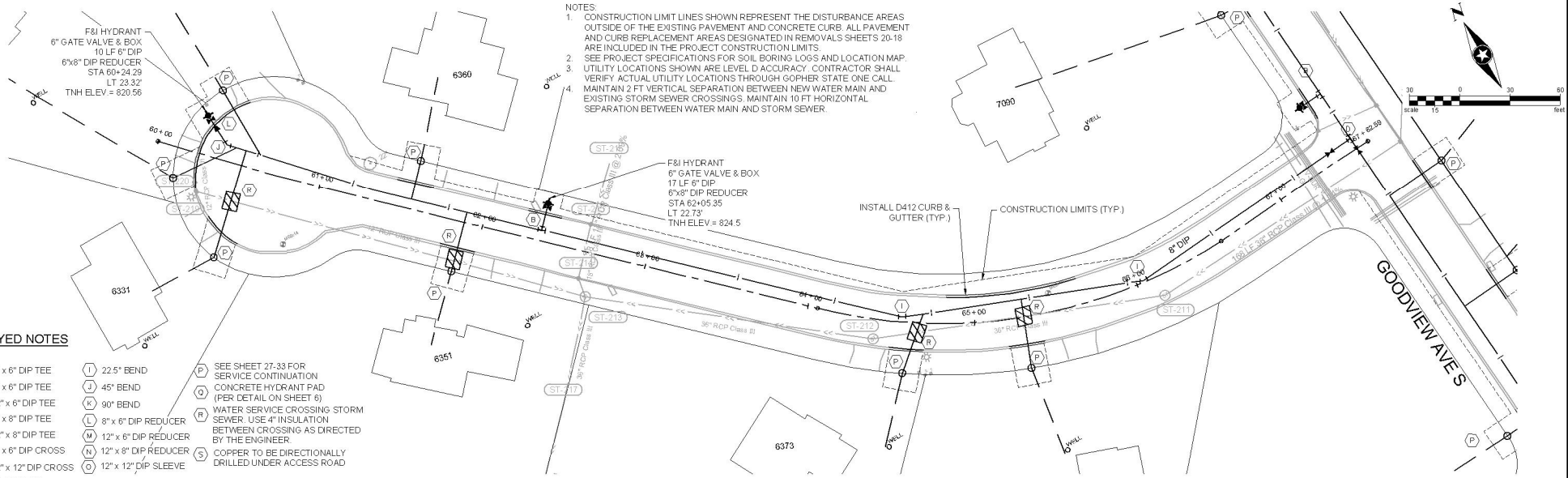
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COTTAGE GROVE, MINNESOTA

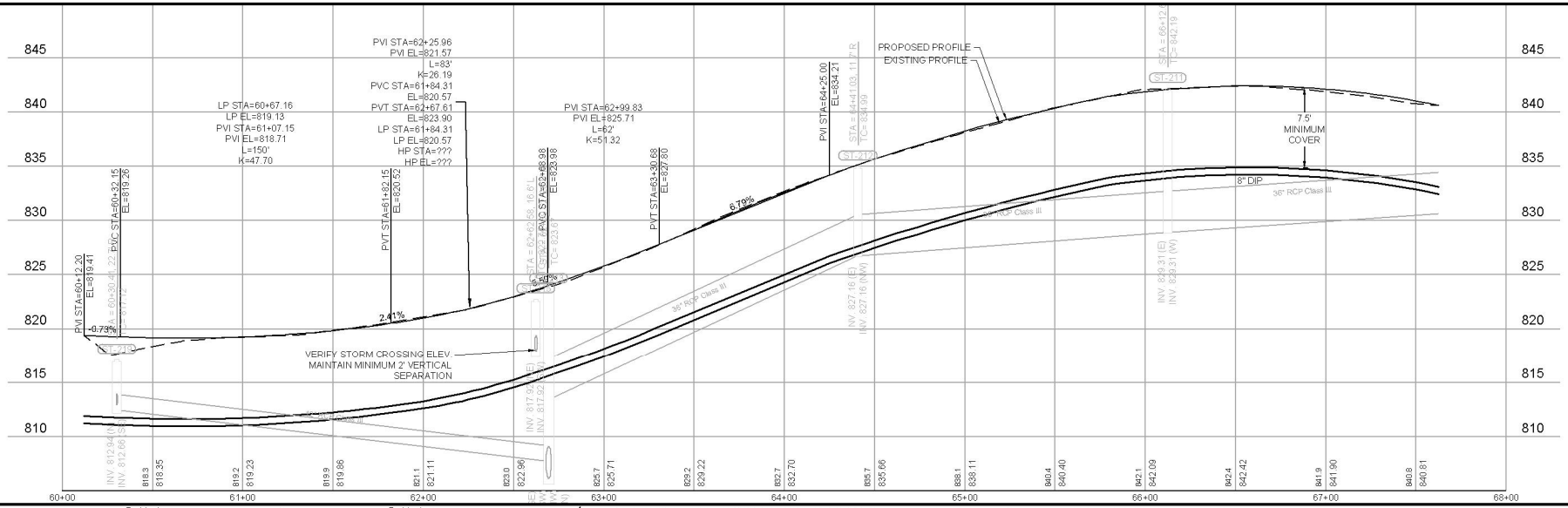
GOODVIEW COURT PLAN AND PROFILE
GOODVIEW AVENUE WATER MAIN EXTENSION

30 of 54

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GOODVIEW BAY S



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COTTAGE GROVE, MINNESOTA

GOODVIEW BAY PLAN AND PROFILE
GOODVIEW AVENUE WATER MAIN EXTENSION

31 of 54

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WATER SERVICE TABULATION

NO.	Address	SEE SHEET NUMBER	WATER SERVICE PIPE (MAIN TO CURB STOP)				WATER SERVICE PIPE (CURB STOP TO HOUSE)				Home Pressure Reducing Valve (PRV)	WATER METER SIZE			NOTES
			1" Copper, Type K (FEET)	1.5" Copper, Type K (FEET)	2" Copper, Type K (FEET)	4" DIP, CL 52 (FEET)	1" HDPE, DR 9 (FEET)	1.5" HDPE, DR 9 (FEET)	2" HDPE, DR 9 (FEET)	4" HDPE, DR 11 (FEET)		3/4 INCH	1.5 INCH	2 INCH	
1	6126 70TH ST S	33	60				192				YES	X	-	-	
2	6190 70TH ST S	33	9				128				YES	X	-	-	
3	6191 70TH ST S	33	18				128				YES	X	-	-	
4	6215 70TH ST S	33	20				81				YES	X	-	-	
5	6332 70TH ST S	33	12				126				YES	X	-	-	
6	6340 70TH ST S	33	6				95				NO	X	-	-	
7	6490 70TH ST S	34			3				257		NO	-	-	X	
8	7003 GOODVIEW AVE S	38	37				150				NO	X	-	-	
9	7012 GOODVIEW AVE S	38	26				35				NO	X	-	-	
10	7025 GOODVIEW AVE S	37		37				468			NO	-	X	-	Connect Service At Well
11	7025 GOODVIEW AVE S	38		N/A				N/A			NO		X		Connect Service At Well/Second Meter In Garage
12	7034 GOODVIEW AVE S	38	27				50				YES	X	-	-	
13	7047 GOODVIEW AVE S	37	35				103				YES	X	-	-	
14	7056 GOODVIEW AVE S	37	24				197				YES	X	-	-	
15	7061 GOODVIEW AVE S	37	35				141				YES	X	-	-	
16	7068 GOODVIEW AVE S	37	23				51				YES	X	-	-	
17	7077 GOODVIEW AVE S	37	37				172				YES	X	-	-	
18	7090 GOODVIEW AVE S	36	22				129				YES	X	-	-	
19	7101 GOODVIEW AVE S	36	38				140				YES	X	-	-	
20	7108 GOODVIEW AVE S	36	23				105				YES	X	-	-	
21	7117 GOODVIEW AVE S	36	38				204				YES	X	-	-	
22	7120 GOODVIEW AVE S	36	37				62				YES	X	-	-	
23	7133 GOODVIEW AVE S	36	79				344				YES	X	-	-	
24	7140 GOODVIEW AVE S	36	59				275				YES	X	-	-	
25	7153 GOODVIEW AVE S	36	62				404				YES	X	-	-	Connect Service At Well
26	6320 GOODVIEW BAY S	40	42				141				YES	X	-	-	
27	6331 GOODVIEW BAY S	40	67				42				YES	X	-	-	
28	6340 GOODVIEW BAY S	40	45				116				YES	X	-	-	
29	6351 GOODVIEW BAY S	40	37				45				YES	X	-	-	
30	6360 GOODVIEW BAY S	40	24				51				YES	X	-	-	
31	6373 GOODVIEW BAY S	40	37				45				YES	X	-	-	Connect Service At Well
32	6385 GOODVIEW BAY S	40	41				55				YES	X	-	-	Connect Service At Well
33	6650 GOODVIEW CT S	39		71				189			NO	-	X	-	
34	6655 GOODVIEW CT S	39			98				366		NO	-	-	X	
35	6690 GOODVIEW CT S	39			56				488		NO	-	-	X	Connect Service At Well
36	6693 GOODVIEW CT S	39			112				458		NO	-	-	X	
37	6740 GOODVIEW CT S	39	25				198				NO	X	-	-	
38	6820 GOODVIEW CT S	39	25				168				NO	X	-	-	
39	6827 GOODVIEW CT S	39		35				173			NO	-	X	-	
40	6971 GOODVIEW CT S	38		35				63			NO	-	X	-	
41	6992 GOODVIEW CT S	38	28				16				NO	X	-	-	
42	6995 GOODVIEW CT S	38		29				237			NO	-	X	-	
TOTAL			1098	207	269	0	4189	1130	1569	0	26	32	6	4	

NOTE:
1. LENGTH OF SERVICE PIPES SHOWN IN TABLE ARE TWO DIMENSIONAL ESTIMATES BASED OFF OF PLAN SERVICE LOCATIONS AND MAY VARY IN FIELD. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PIPE LENGTHS NEEDED.

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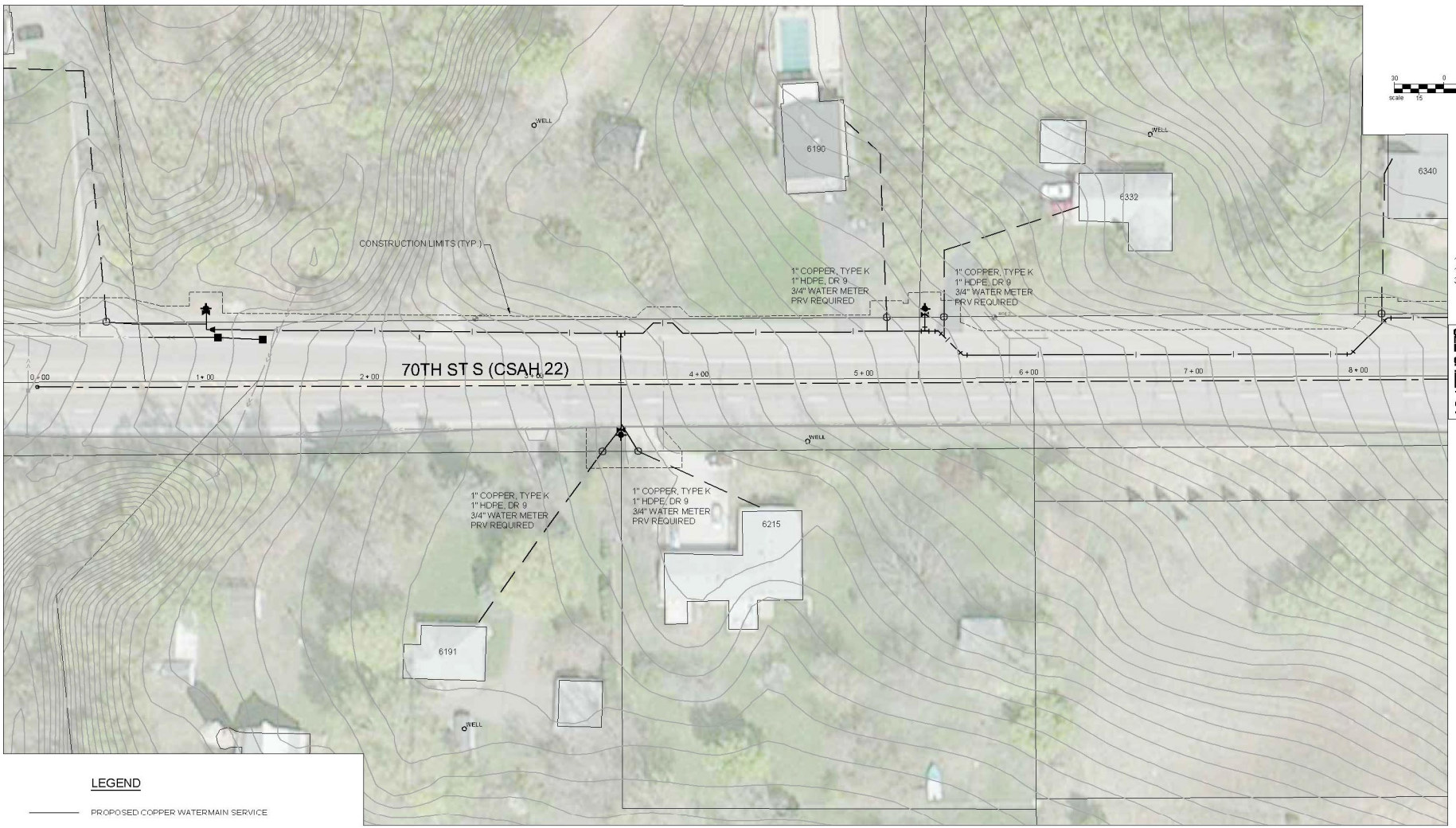
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CHAD E. SETTERHOLM, PE
DATE 02/25/2022 LICENSE NO. 40913

COTTAGE GROVE, MINNESOTA

WATER MAIN SERVICE PLAN GOODVIEW AVENUE WATER MAIN EXTENSION



LEGEND

- PROPOSED COPPER WATERMAIN SERVICE
- PROPOSED HDPE WATERMAIN SERVICE TO BE BORED
- WATERMAIN SERVICE CURB STOP
- WELL — EXISTING WELL TO BE SEALED ONCE SERVICE CONNECTION TO HOME HAS BEEN COMPLETED

KEYED NOTES

- (W) SERVICE ENTERS THROUGH EXTERIOR WALL
- (X) SEE SHEETS 34-41 FOR WELL LANDSCAPING DETAILS
- (Y) REMOVE TREE
- (Z) PROPOSED CURB BOX IN DRIVE

NOTES:
1. FURNISH & INSTALL A MCDONALD 74M1A SERIES METER FRAME & COVER FOR CURB STOPS WITHIN DRIVEWAYS.
2. PROTECT ALL FACILITIES NOT SPECIFIED FOR REMOVAL.
3. CLEARING AND GRUBBING WILL BE AS NEEDED AS DIRECTED IN THE FIELD BY THE ENGINEER
4. FOR MORE INFORMATION ABOUT REMOVALS INSIDE OF THE RIGHT OF WAY SEE SHEETS 16-18.

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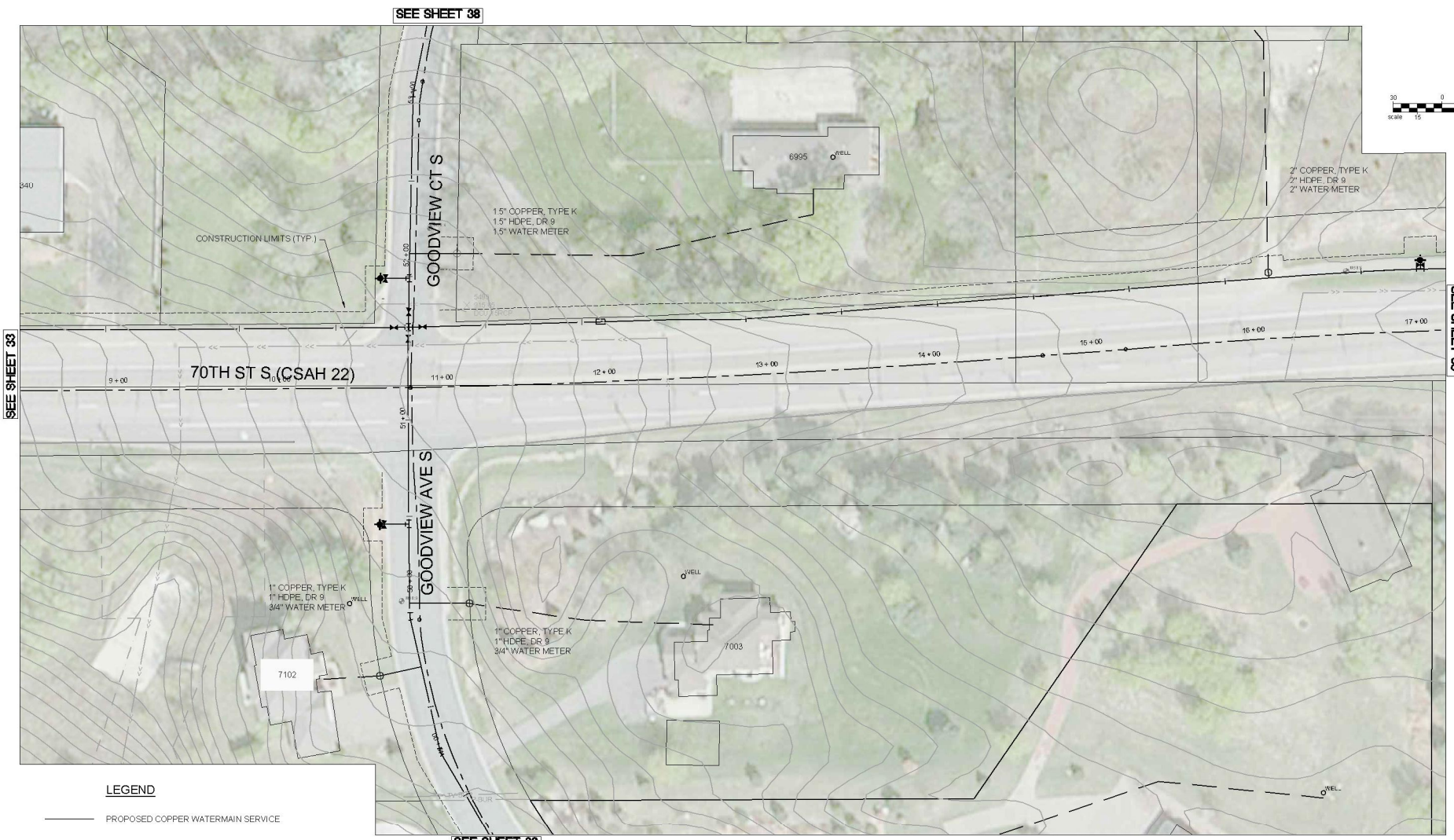
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COTTAGE GROVE, MINNESOTA

70TH STREET SOUTH (CSAH 22)
WATER MAIN SERVICE PLAN
GOODVIEW AVENUE WATER MAIN EXTENSION

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LEGEND

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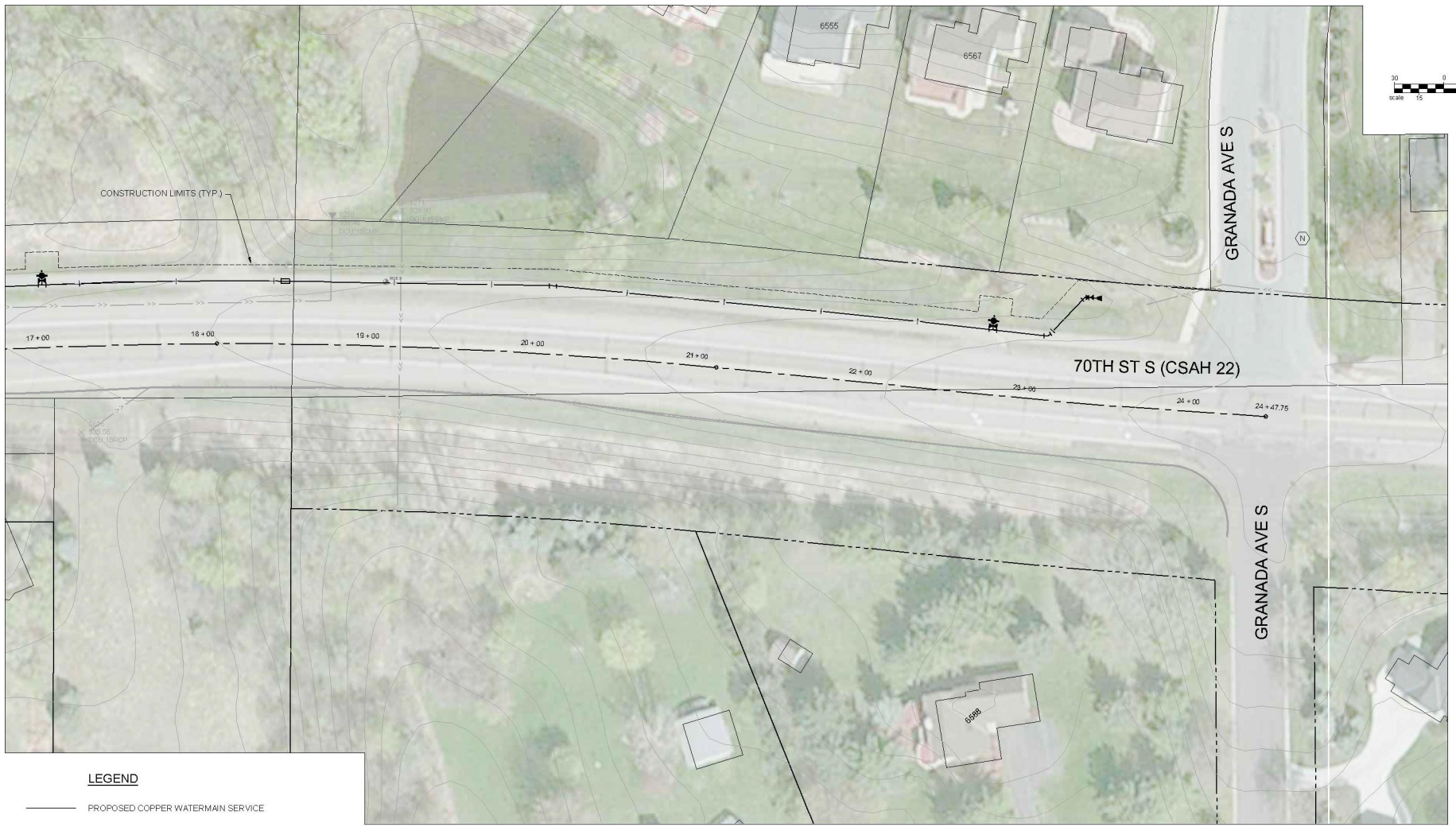
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70TH STREET SOUTH (CSAH 22)
WATER MAIN SERVICE PLAN
GOODVIEW AVENUE WATER MAIN EXTENSION

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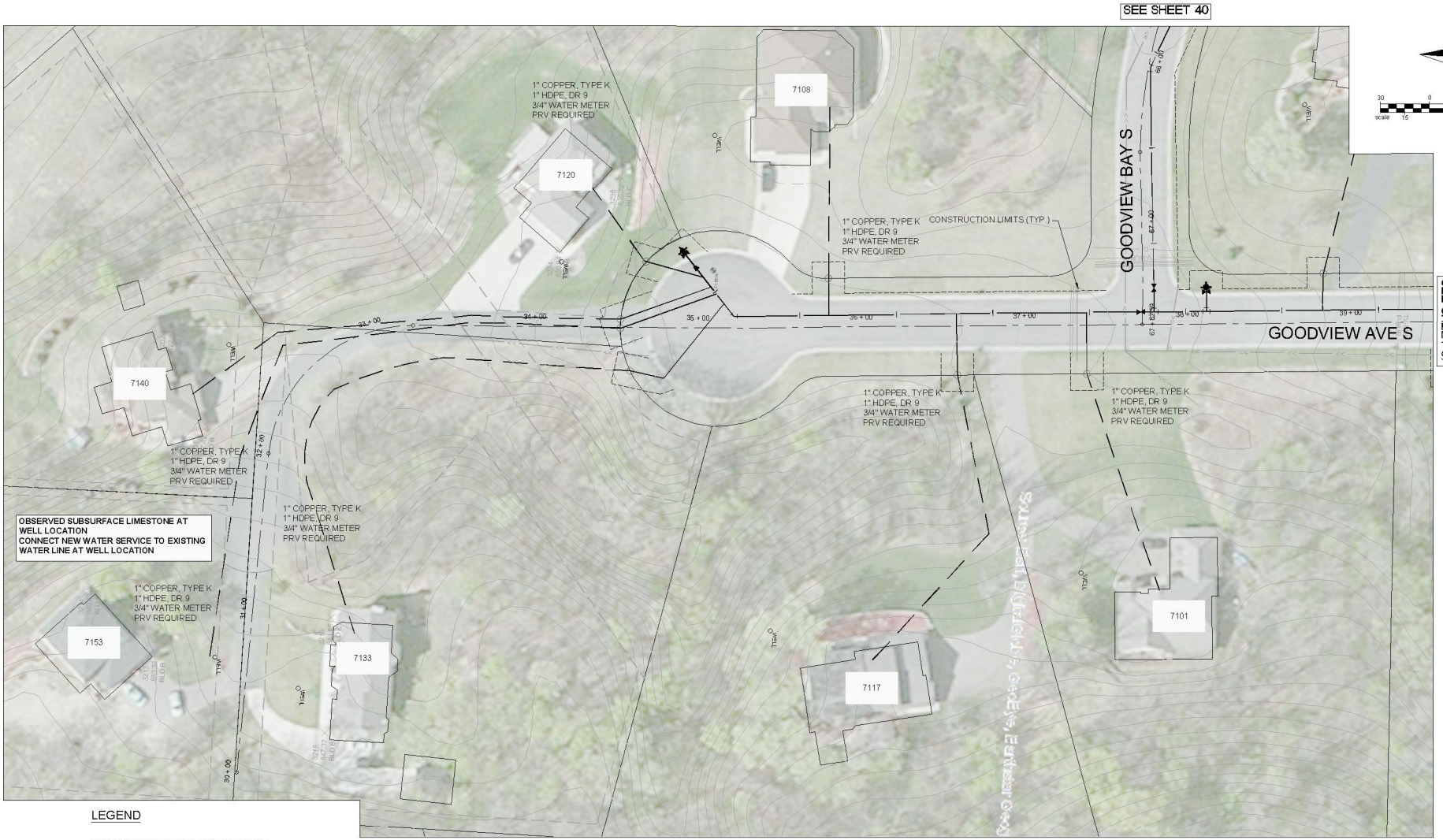
CHAD E. SETTERHOLM, PE

DATE 02/25/2022 LICENSE NO. 40913

COTTAGE GROVE, MINNESOTA

70TH STREET SOUTH (CSAH 22)
WATER MAIN SERVICE PLAN
GOODVIEW AVENUE WATER MAIN EXTENSION

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LEGEND

- PROPOSED COPPER WATERMAIN SERVICE
- PROPOSED HDPE WATERMAIN SERVICE TO BE BORED
- WATERMAIN SERVICE CURB STOP
- WELL — EXISTING WELL TO BE SEALED ONCE SERVICE CONNECTION TO HOME HAS BEEN COMPLETED

KEYED NOTES

- (W) SERVICE ENTERS THROUGH EXTERIOR WALL
- (X) SEE SHEETS 34-41 FOR WELL LANDSCAPING DETAILS
- (Y) REMOVE TREE
- (Z) PROPOSED CURB BOX IN DRIVE

NOTES:
1. FURNISH & INSTALL A MCDONALD 74M1A SERIES METER FRAME & COVER FOR CURB STOPS WITHIN DRIVEWAYS.
2. PROTECT ALL FACILITIES NOT SPECIFIED FOR REMOVAL
3. CLEARING AND GRUBBING WILL BE AS NEEDED AS DIRECTED IN THE FIELD BY THE ENGINEER
4. FOR MORE INFORMATION ABOUT REMOVALS INSIDE OF THE RIGHT OF WAY SEE SHEETS 16-18.

SEH Project	162976
Drawn By	DSJ, JPS
Designed By	CES
Checked By	BSS, DSJ JPS

Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date

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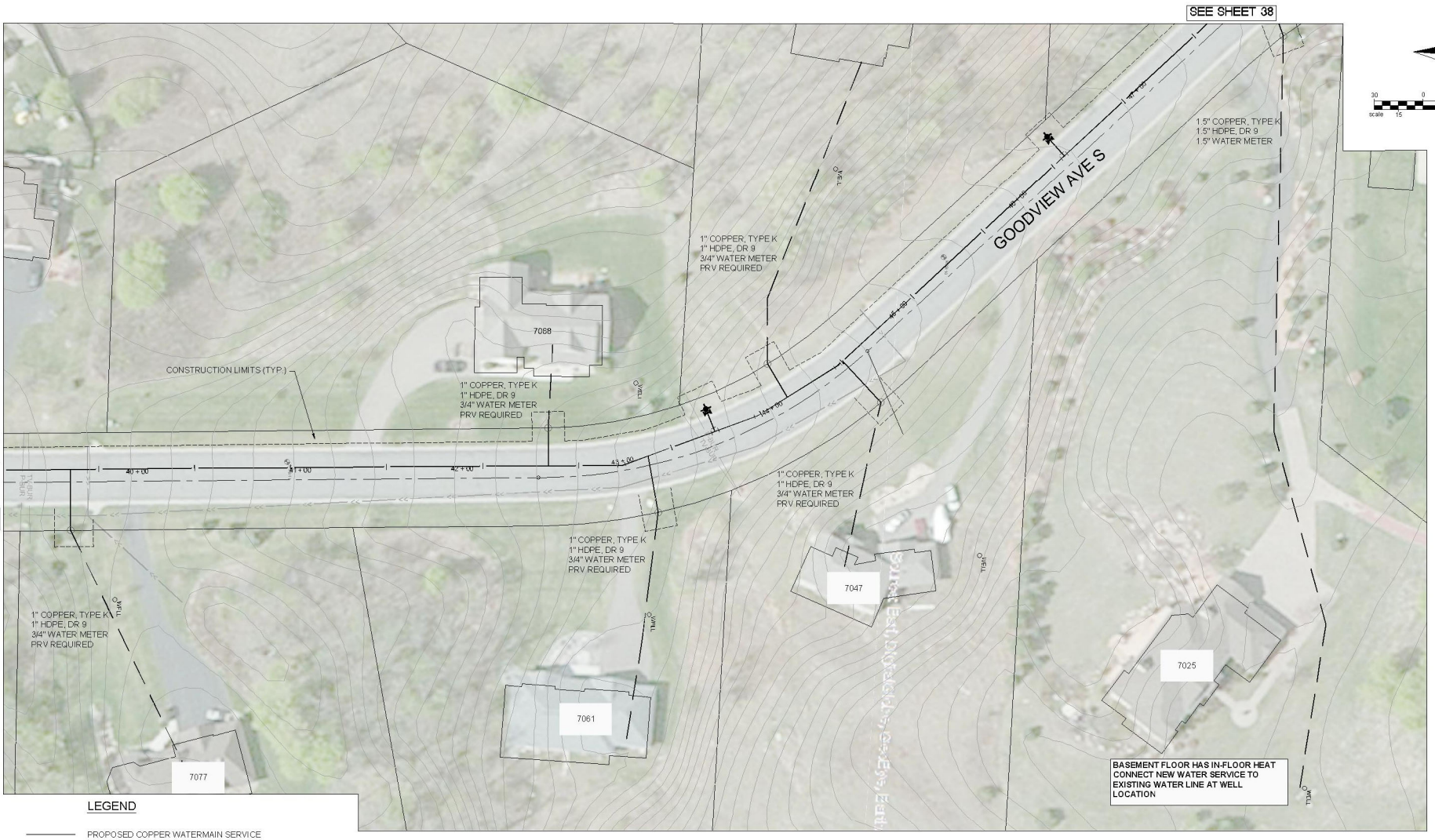
CHAD E. SETTERHOLM, PE

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COTTAGE GROVE, MINNESOTA

GOODVIEW AVENUE WATER MAIN SERVICE PLAN
GOODVIEW AVENUE WATER MAIN EXTENSION

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COTTAGE GROVE, MINNESOTA

GOODVIEW AVENUE WATER MAIN
SERVICE PLAN
GOODVIEW AVENUE WATER MAIN
EXTENSION

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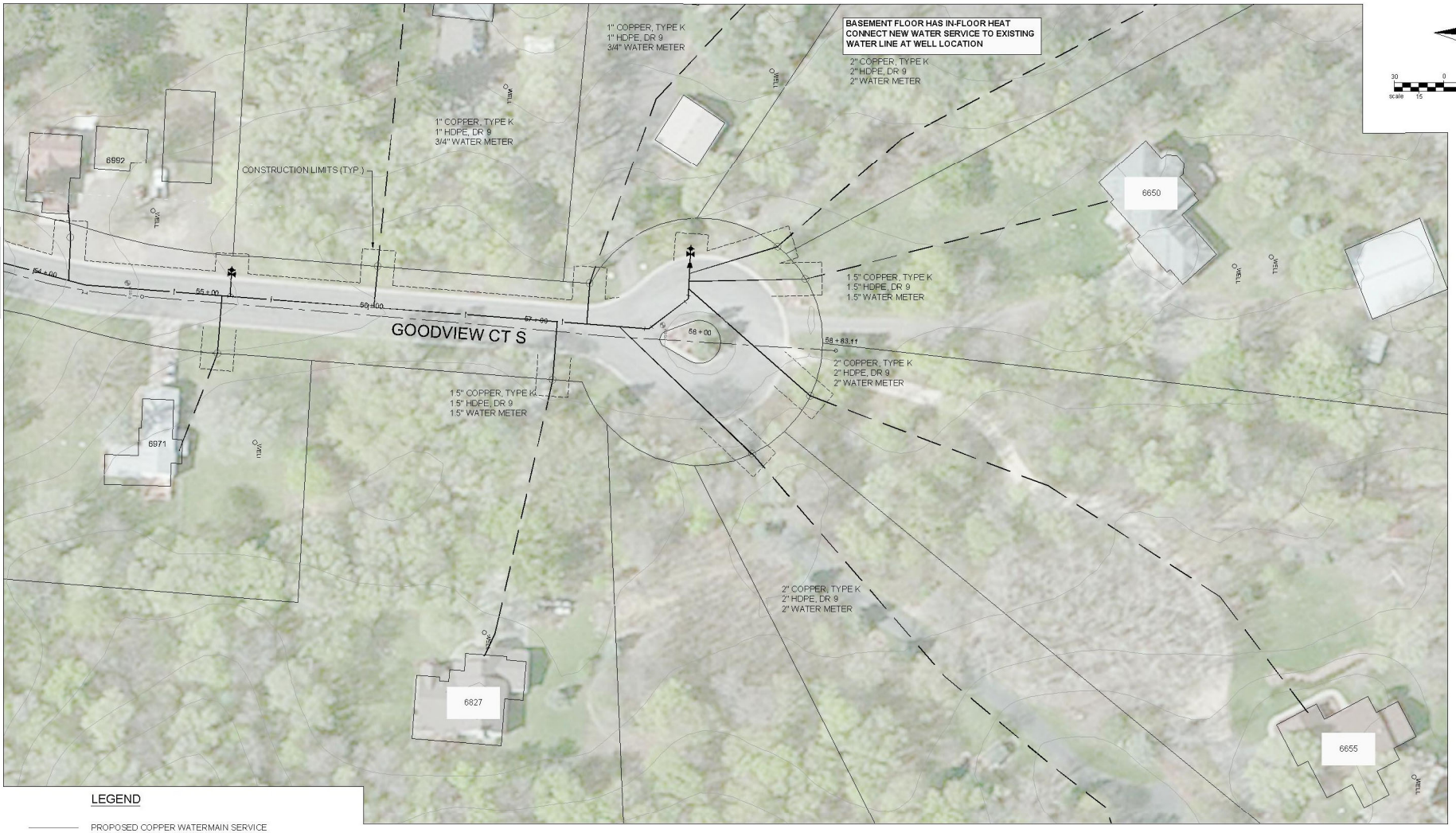
CHAD E. SETTERHOLM, PE

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COTTAGE GROVE, MINNESOTA

GOODVIEW AVENUE WATER MAIN
SERVICE PLAN
GOODVIEW AVENUE WATER MAIN
EXTENSION

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SEE SHEET 38

LEGEND

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Drawn By	DSJ, JPS
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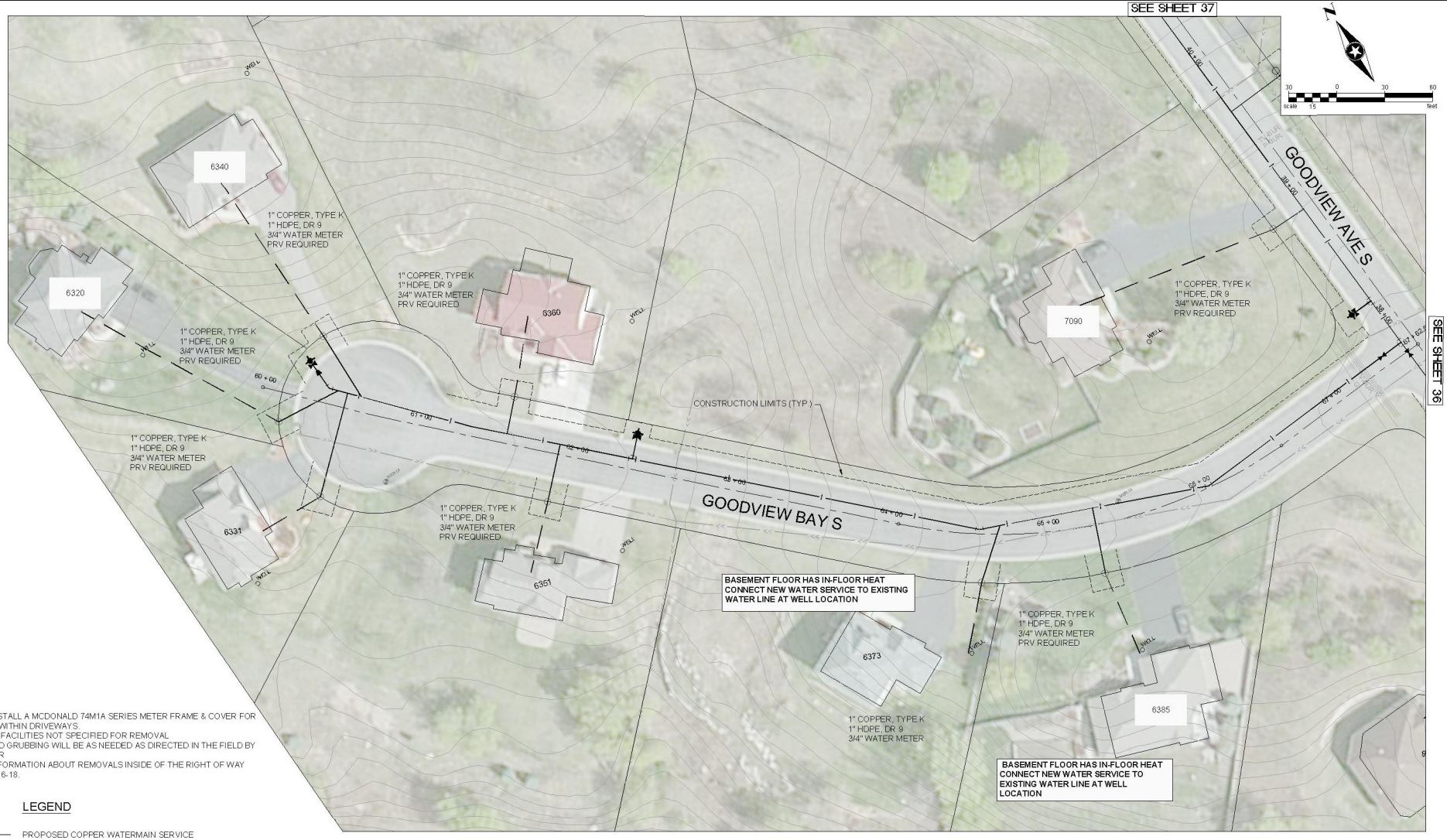
DATE 02/25/2022 LICENSE NO. 40913

COTTAGE GROVE, MINNESOTA

GOODVIEW COURT WATER MAIN SERVICE PLAN
GOODVIEW AVENUE WATER MAIN EXTENSION

39 of 54

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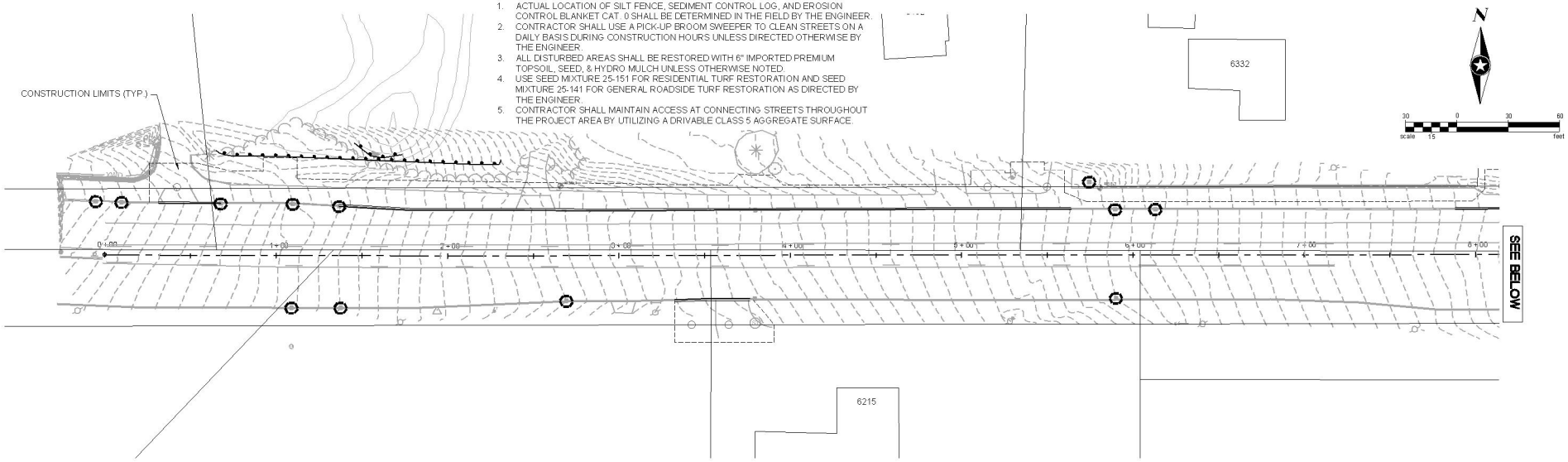
COTTAGE GROVE, MINNESOTA

GOODVIEW BAY WATER MAIN SERVICE PLAN
GOODVIEW AVENUE WATER MAIN EXTENSION

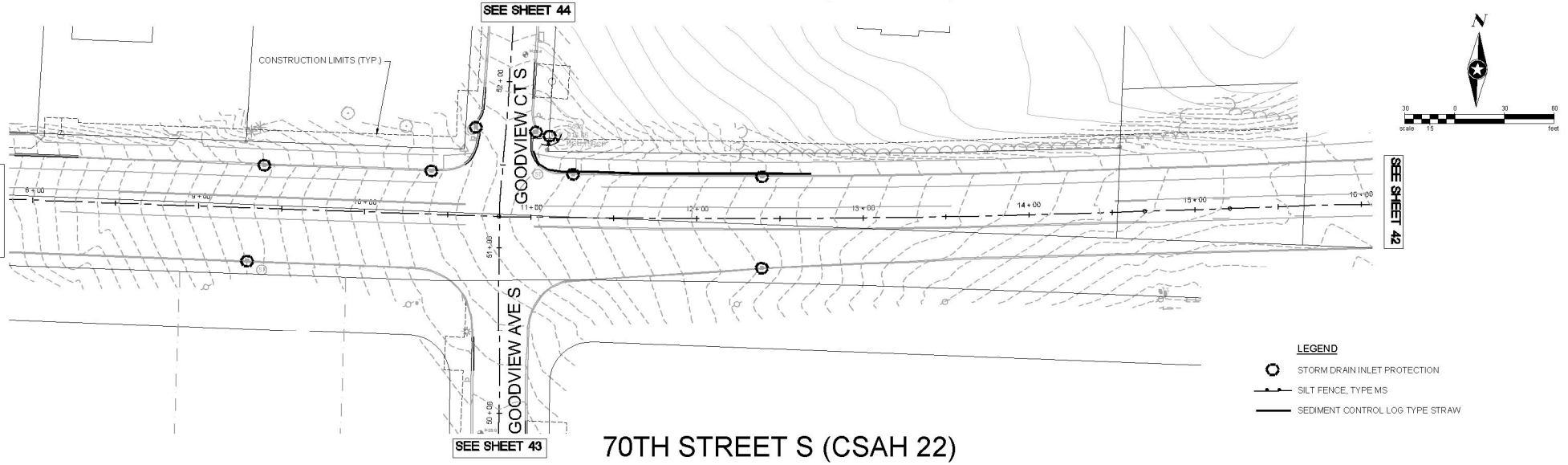
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SEEDING-EROSION CONTROL NOTES:

1. ACTUAL LOCATION OF SILT FENCE, SEDIMENT CONTROL LOG, AND EROSION CONTROL BLANKET CAT. 0 SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. CONTRACTOR SHALL USE A PICK-UP BROOM SWEEPER TO CLEAN STREETS ON A DAILY BASIS DURING CONSTRUCTION HOURS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
3. ALL DISTURBED AREAS SHALL BE RESTORED WITH 6" IMPORTED PREMIUM TOPSOIL, SEED, & HYDRO MULCH UNLESS OTHERWISE NOTED.
4. USE SEED MIXTURE 25-151 FOR RESIDENTIAL TURF RESTORATION AND SEED MIXTURE 25-141 FOR GENERAL ROADSIDE TURF RESTORATION AS DIRECTED BY THE ENGINEER.
5. CONTRACTOR SHALL MAINTAIN ACCESS AT CONNECTING STREETS THROUGHOUT THE PROJECT AREA BY UTILIZING A DRIVABLE CLASS 5 AGGREGATE SURFACE.



70TH STREET S (CSAH 22)



70TH STREET S (CSAH 22)

LEGEND

- STORM DRAIN INLET PROTECTION
- SILT FENCE, TYPE MS
- SEDIMENT CONTROL LOG TYPE STRAW

SEH Project	162976
Drawn By	DSJ, JPS
Designed By	CES
Checked By	BSS, DSJ JPS

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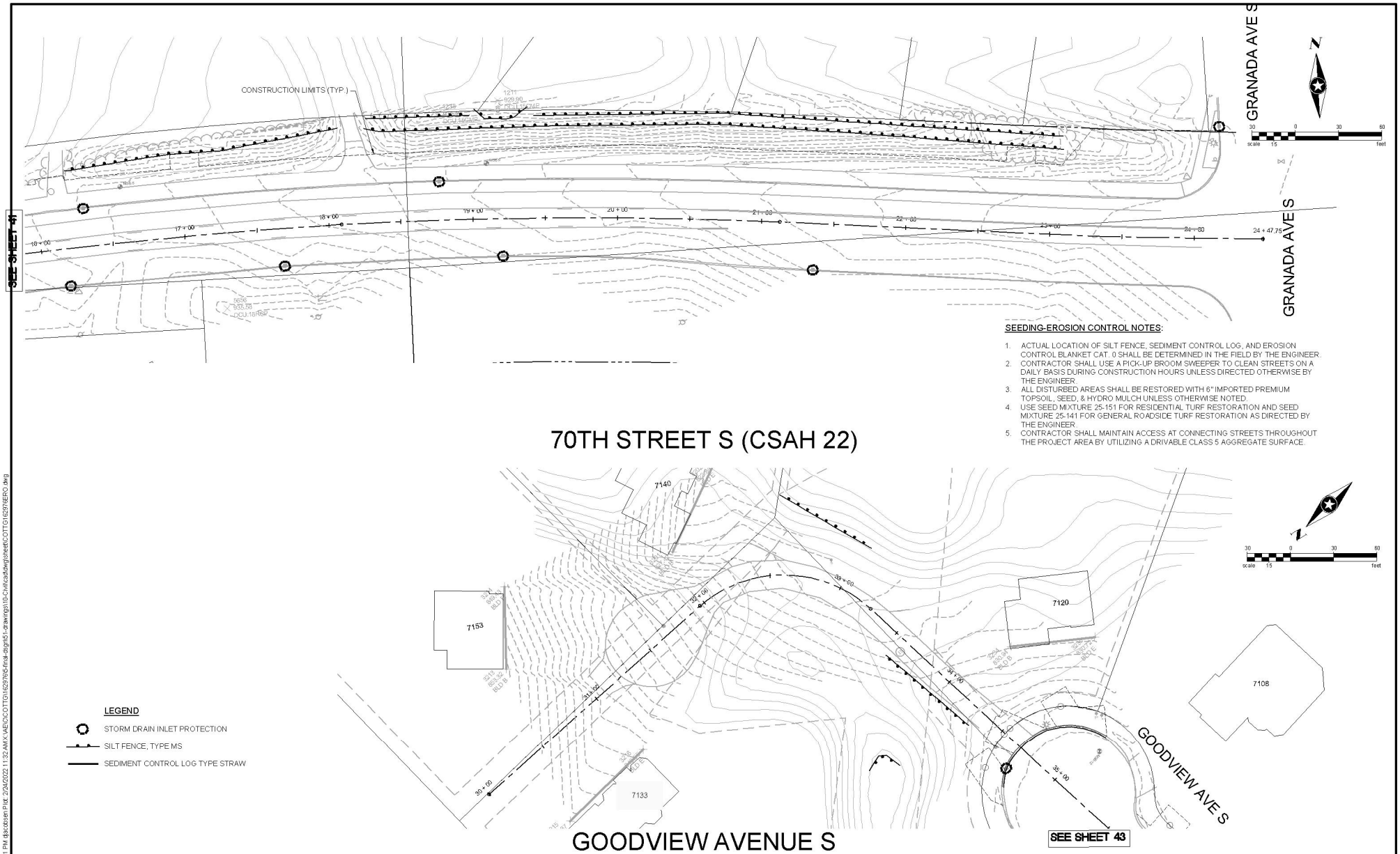
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COTTAGE GROVE, MINNESOTA

EROSION CONTROL AND TURF ESTABLISHMENT
GOODVIEW AVENUE WATER MAIN EXTENSION

41 of 54

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LEGEND

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- SILT FENCE, TYPE MS
- SEDIMENT CONTROL LOG TYPE STRAW

		Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
SEH Project	162976						
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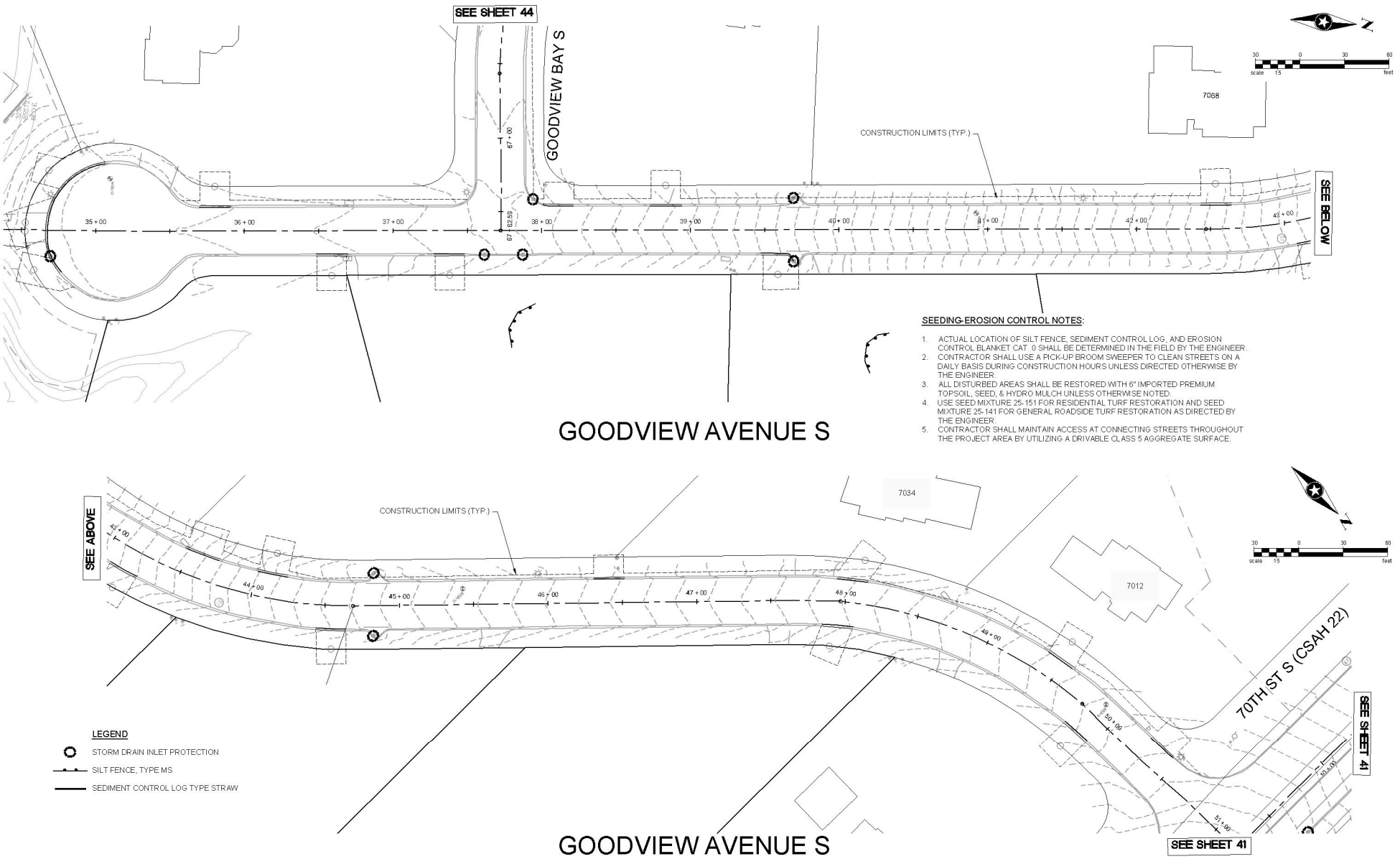
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COTTAGE GROVE, MINNESOTA

EROSION CONTROL AND TURF ESTABLISHMENT
GOODVIEW AVENUE WATER MAIN EXTENSION

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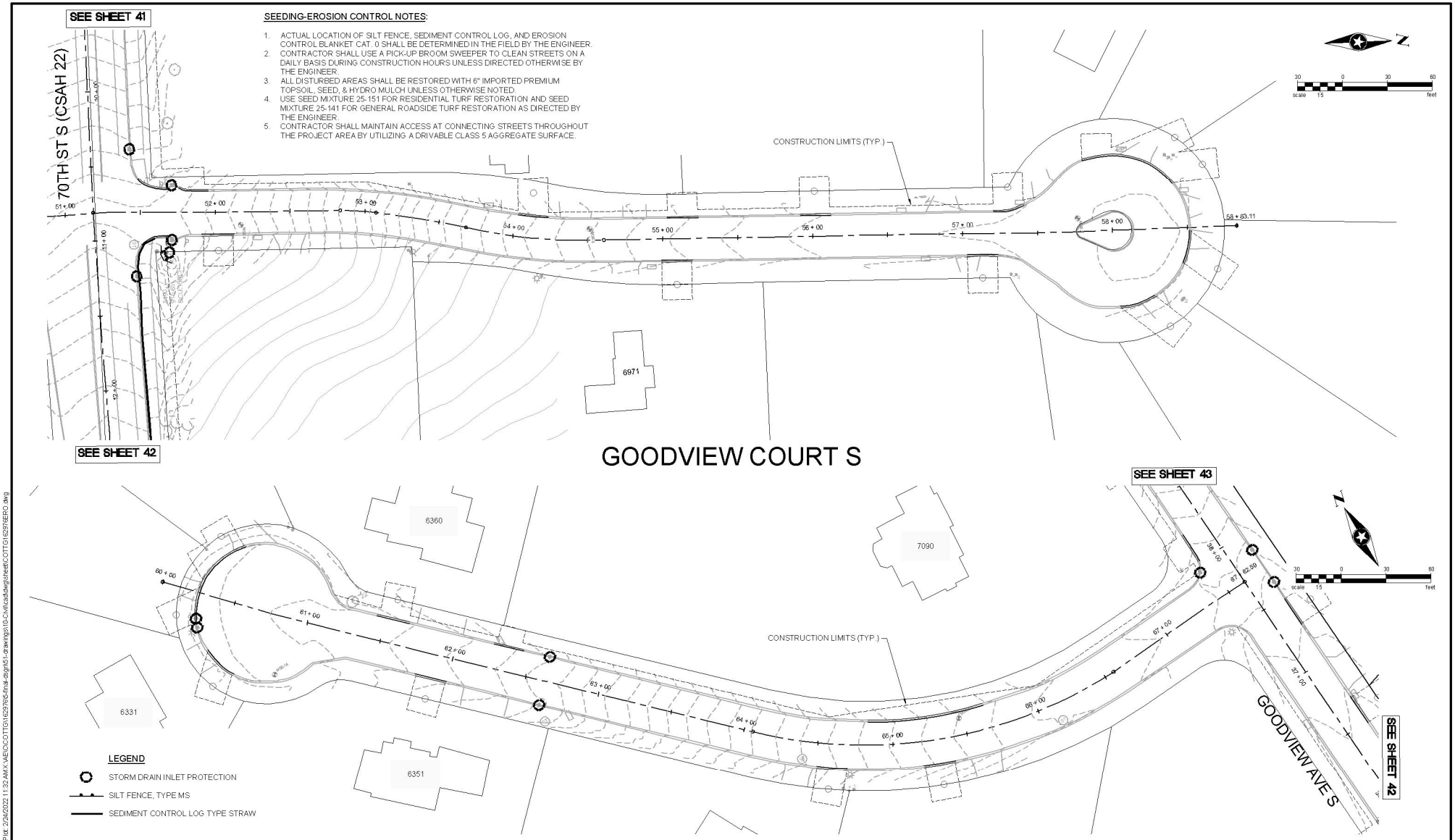
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COTTAGE GROVE, MINNESOTA

EROSION CONTROL AND TURF ESTABLISHMENT
GOODVIEW AVENUE WATER MAIN EXTENSION



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SEH Project	162976	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date	SEH	HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. CHAD E. SETTERHOLM, PE DATE 02/25/2022 LICENSE NO. 40913	COTTAGE GROVE, MINNESOTA	EROSION CONTROL AND TURF ESTABLISHMENT GOODVIEW AVENUE WATER MAIN EXTENSION	44 of 54
Drawn By	DSJ, JPS								
Designed By	CES								
Checked By	BSS, DSJ JPS								

SWPPP SUMMARY/OVERVIEW:
THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED TO ADDRESS THE REQUIREMENTS OF NPDES PERMIT MN R100001. THIS SWPPP INCLUDES A COMBINATION OF NARRATIVE AND PLAN SHEETS THAT DESCRIBE THE TEMPORARY AND PERMANENT STORM WATER MANAGEMENT PLAN FOR THE PROJECT.

PROJECT INFORMATION:

LOCATION:	COTTAGE GROVE, MINNESOTA
LATITUDE/LONGITUDE:	44.846318, -92.976412
PROJECT DESCRIPTION:	INSTALLATION OF WATERMAIN UNDER EXISTING ROADWAYS, REPLACE ROADWAY PAVMENT
SOIL DISTURBING ACTIVITIES:	WATERMAIN INSTALLATION, BITUMINOUS PAVEMENT RECLAIMATION

CONTACTS:

OWNER:	CITY OF COTTAGE GROVE
CONTACT:	RYAN BURFEIND
ADDRESS:	8635 WEST PT. DOUGLAS ROAD
PHONE:	651-458-2899
EMAIL:	rburfeind@cottagegrovemn.gov

ENGINEER:	SHORT ELLIOTT HENDRICKSON INC. (SEH)
CONTACT:	CHAD SETTERHOLM, PE
PHONE:	651-765-2911
EMAIL:	csetterholm@sehinc.com
PROJECT NO.:	COTTG 162976

KNOWLEDGEABLE PERSON/CHAIN OF RESPONSIBILITY:
THE CONTRACTOR SHALL IDENTIFY A PERSON KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPS WHO WILL COORDINATE WITH ALL CONTRACTORS, SUBCONTRACTORS, AND OPERATORS ON-SITE TO OVERSEE THE IMPLEMENTATION OF THE SWPPP.

CONTRACTOR	TBD
CONTACT	TBD
PHONE	TBD
EMAIL	TBD

THE CONTRACTOR SHALL ESTABLISH A CHAIN OF RESPONSIBILITY FOR ALL CONTRACTORS AND SUB-CONTRACTORS ON SITE TO ENSURE THE SWPPP IS BEING PROPERLY IMPLEMENTED AND MAINTAINED. THE CONTRACTOR SHALL PROVIDE THE CHAIN OF RESPONSIBILITY TO THE OWNER AND ATTACH TO THE SWPPP PRIOR TO ANY CONSTRUCTION ACTIVITY.

GENERAL SWPPP RESPONSIBILITIES:
THE CONTRACTOR SHALL KEEP THE SWPPP, INCLUDING ALL AMENDMENTS AND INSPECTION AND MAINTENANCE RECORDS ON SITE DURING CONSTRUCTION.

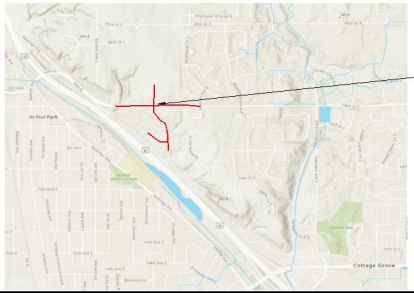
THE SWPPP WILL BE AMENDED AS NEEDED AND/OR AS REQUIRED BY PROVISIONS OF THE PERMIT. PERMITTEES MUST AMEND THE SWPPP TO INCLUDE ADDITIONAL OR MODIFIED BMPS AS NECESSARY TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER OR SEASONAL CONDITIONS HAVING A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER. AMENDMENTS WILL BE APPROVED BY BOTH THE OWNER AND CONTRACTOR AND WILL BE ATTACHED OR OTHERWISE INCLUDED WITH THE SWPPP DOCUMENTS. THE SWPPP AMENDMENTS SHALL BE INITIATED, FACILITATED, AND PROCESSED BY THE CONTRACTOR.

ALL SWPPP CHANGES MUST BE DONE BY AN INDIVIDUAL TRAINED IN ACCORDANCE WITH SECTION 21.4 OR 21.5. CHANGES INVOLVING THE USE OF A LESS STRINGENT BMP MUST INCLUDE A JUSTIFICATION DESCRIBING HOW THE REPLACEMENT BMP IS EFFECTIVE FOR THE SITE CHARACTERISTICS.

BOTH THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER TERMINATION AND/OR TRANSFER OF THE PERMIT.

LONG TERM OPERATION AND MAINTENANCE
THE OWNER WILL BE RESPONSIBLE OR WILL OTHERWISE IDENTIFY WHO WILL BE RESPONSIBLE FOR THE LONG TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM(S).

THE OWNER WILL PREPARE AND IMPLEMENT A PERMANENT STORMWATER TREATMENT SYSTEM(S) MAINTENANCE PLAN.



TRAINING DOCUMENTATION:

PREPARER/DESIGNER OF SWPPP:	STEVE PRALL, PE (MN)
EMPLOYER:	SHORT ELLIOTT HENDRICKSON INC. (SEH)
DATE OBTAINED / REFRESHED:	2/6/2020
INSTRUCTOR(S)/ENTITY PROVIDING TRAINING:	UNIVERSITY OF MINNESOTA

CONTENT OF TRAINING AVAILABLE UPON REQUEST.

THE CONTRACTOR (OPERATOR) SHALL ADD TO THE SWPPP TRAINING RECORDS FOR THE FOLLOWING PERSONNEL:

-INDIVIDUALS OVERSEEING THE IMPLEMENTATION OF, REVISING, AND AMENDING THE SWPPP
-INDIVIDUALS PERFORMING INSPECTIONS
-INDIVIDUALS PERFORMING OR SUPERVISING THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPS

TRAINING MUST RELATE TO THE INDIVIDUAL'S JOB DUTIES AND RESPONSIBILITIES AND SHALL INCLUDE:

1) DATES OF TRAINING
2) NAME OF INSTRUCTORS
3) CONTENT AND ENTITY PROVIDING TRAINING

THE CONTRACTOR SHALL ENSURE THAT THE INDIVIDUALS ARE TRAINED BY LOCAL, STATE, FEDERAL AGENCIES, PROFESSIONAL ORGANIZATIONS, OR OTHER ENTITIES WITH EXPERTISE IN EROSION PREVENTION, SEDIMENT CONTROL, PERMANENT STORMWATER MANAGEMENT AND THE MINNESOTA NPDES/SDS CONSTRUCTION STORMWATER PERMIT.

PROJECT SUMMARY:

TOTAL DISTURBED AREA:	3.55 AC
PRE-CONSTRUCTION IMPERVIOUS AREA:	3.00 AC
POST-CONSTRUCTION IMPERVIOUS AREA:	3.00 AC
IMPERVIOUS AREA ADDED:	0.0 AC

RECEIVING WATER(S) WITHIN ONE MILE FROM PROJECT BOUNDARIES:
(http://pca-gis02.pca.state.mn.us/CSW/index.html)

ID	NAME	TYPE	SPECIAL WATER?	IMPAIRED WATER?	CONSTRUCTION RELATED IMPAIRMENT OR SPECIAL WATER CLASSIFICATION	TMDL
ADDITIONAL BMPS AND/OR ACTIONS REQUIRED: NONE						

SITE SOIL INFORMATION: (http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx)
(SOIL INFORMATION PROVIDED IS FOR NPDES PERMIT INFORMATION ONLY. SOIL INFORMATION WAS OBTAINED FROM THE USGS WEBSITE. THE CONTRACTOR SHALL NOT RELY ON THIS SOIL INFORMATION FOR CONSTRUCTION PURPOSES.)

SOIL NAME:	HYDROLOGIC CLASSIFICATION:
WAUKEGAN SILT LOAM	B
OSTRANDER SILT LOAM	B
MAHTOMEDI LOAMY SAND	A
CRYSTAL LAKE SILT LOAM	C
ANTICIPATED RANGE OF PARTICLE SIZES	

RELATED REVIEWS & PERMITS:
ENVIRONMENTAL, WETLAND, ENDANGERED OR THREATENED SPECIES, ARCHEOLOGICAL, LOCAL, STATE, AND/OF FEDERAL REVIEWS/PERMITS:

AGENCY:	TYPE OF PERMIT:
SOUTH WASHINGTON WATERSHED DISTRICT	EROSION AND SEDIMENT CONTROL, STORMWATER MANAGEMENT AND WATER QUALITY

IMPLEMENTATION SEQUENCE:
THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING SEQUENCE.
THE ENGINEER MAY APPROVE ADJUSTMENTS TO THE SEQUENCE AS NEEDED.

1.	INSTALL PERIMETER CONTROL AND STABILIZE DOWN GRADIENT BOUNDARIES
2.	INSTALL INLET PROTECTION ON EXISTING CATCH BASINS
3.	INSTALL UTILITIES, STORM SEWER (ADJUST CASTINGS), RE-INSTALL INLET PROTECTION, CURB & GUTTER, PAVING
4.	COMPLETE FINAL GRADING AND STABILIZE DISTURBED AREAS
5.	AFTER CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ACCUMULATED SEDIMENT, REMOVE BMPS, AND RE-STABILIZE ANY AREAS DISTURBED BY THEIR REMOVAL.

THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE SWPPP:
WATERMAIN PLAN AND PROFILE PLAN SHEETS:
EROSION CONTROL AND TURF ESTABLISHMENT PLAN SHEETS:
DETAIL PLAN SHEETS.
SWPPP NOTE AND DETAIL SHEETS:
PROJECT SPECIFICATIONS:
PROJECT BID FORM:

TEMPORARY BMP DESIGN FACTORS:
EROSION PREVENTION AND SEDIMENT CONTROL BMPS MUST BE DESIGNED TO ACCOUNT FOR:

THE EXPECTED AMOUNT, FREQUENCY, INTENSITY, AND DURATION OF PRECIPITATION

THE NATURE OF STORMWATER RUNOFF AND RON-ON AT THE SITE, INCLUDING FACTORS SUCH AS EXPECTED FLOW FROM IMPERVIOUS SURFACES, SLOPES, AND SITE DRAINAGE FEATURES

THE STORMWATER VOLUME, VELOCITY, AND PEAK FLOW RATES TO MINIMIZE DISCHARGE OF POLLUTANTS IN STORMWATER AND TO MINIMIZE CHANNEL AND STREAMBANK EROSION AND SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS

THE RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT.

PERMANENT STORMWATER MANAGEMENT SYSTEM

NO NEW IMPERVIOUS SURFACES ARE ADDED IN THIS PROJECT AND THIS PROJECT IS NOT CONSIDERED "FULLY RECONSTRUCTED" PER MS4 PERMIT LINE 27.12 THEREFORE IS NOT REQUIRED TO MEET WATER QUALITY VOLUMES PER MS4 GENERAL PERMIT LINES 20.6 AND 20.7. EXISTING PERMANENT STORMWATER MANAGEMENT SYSTEM WILL BE UTILIZED

EROSION PREVENTION MEASURES AND TIMING:
THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION PREVENTION MEASURES FOR THE PROJECT.

EROSION PREVENTION MEASURES SHOWN ON PLANS ARE THE ABSOLUTE MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL EROSION PREVENTION MEASURES AS NECESSARY TO PROPERLY MANAGE THE PROJECT AREA.

THE CONTRACTOR SHALL PLAN AND IMPLEMENT APPROPRIATE CONSTRUCTION PRACTICES AND CONSTRUCTION PHASING TO MINIMIZE EROSION AND RETAIN VEGETATION WHENEVER POSSIBLE.

THE PERMITTEE SHALL DELINEATE AREAS NOT TO BE DISTURBED. PERMITTEE(S) MUST MINIMIZE THE NEED FOR DISTURBANCE OF PORTIONS OF THE PROJECT WITH STEEP SLOPES. WHEN STEEP SLOPES MUST BE DISTURBED, PERMITTEES MUST USE TECHNIQUES SUCH AS PHASING AND STABILIZATION PRACTICES DESIGNED FOR STEEP SLOPES.

THE CONTRACTOR SHALL STABILIZE OF ALL EXPOSED SOILS IMMEDIATELY TO LIMIT SOIL EROSION. IN NO CASE SHALL ANY EXPOSED AREAS, INCLUDING STOCK PILES, HAVE EXPOSED SOILS FOR MORE THAN 14 DAYS WITHOUT PROVIDING TEMPORARY OR PERMANENT STABILIZATION. STABILIZATION MUST BE COMPLETED WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY HAS CEASED. TEMPORARY STOCKPILES WITHOUT SIGNIFICANT CLAY, SILT, OR ORGANIC COMPONENTS DO NOT REQUIRE STABILIZATION.

DRAINAGE PATHS, DITCHES, AND/OR SWALES SHALL HAVE TEMPORARY OR PERMANENT STABILIZATION WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER OR 24 HOURS AFTER CONSTRUCTION ACTIVITY IN THE DITCH/SWALE HAS TEMPORARILY OR PERMANENTLY CEASED.

THE CONTRACTOR SHALL COMPLETE THE STABILIZATION OF ALL EXPOSED SOILS WITHIN 24 HOURS THAT LIE WITHIN 200 FEET OF PUBLIC WATERS PROMULGATED "WORK IN WATER RESTRICTIONS" BY THE MN DNR DURING SPECIFIED FISH SPAWNING TIMES.

THE CONTRACTOR SHALL IMPLEMENT EROSION CONTROL BMPS AND VELOCITY DISSIPATION DEVICES ALONG CONSTRUCTED STORMWATER CONVEYANCE CHANNELS AND OUTLETS.

THE CONTRACTOR SHALL STABILIZE TEMPORARY AND/OR PERMANENT DRAINAGE DITCHES OR SWALES WITHIN 200 LINEAL FEET FROM PROPERTY EDGE, OR DISCHARGE POINT(S) WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE.

TEMPORARY OR PERMANENT DITCHES OR SWALES USED AS A SEDIMENT CONTAINMENT SYSTEM DURING CONSTRUCTION MUST BE STABILIZED WITHIN 24 HOURS AFTER NO LONGER BEING USED AS A SEDIMENT CONTAINMENT SYSTEM.

THE CONTRACTOR SHALL NOT UTILIZE HYDROMULCH, TACKIFIER, POLYACRYLAMIDE OR SIMILAR EROSION PREVENTION PRACTICES AS A FORM OF STABILIZATION FOR TEMPORARY OR PERMANENT DRAINAGE DITCHES OR SWALE SECTION WITH A CONTINUOUS SLOPE OF GREATER THAN 2 PERCENT.

THE CONTRACTOR SHALL ENSURE PIPE OUTLETS HAVE TEMPORARY OR PERMANENT ENERGY DISSIPATION WITH IN 24 HOURS OF CONNECTION TO A SURFACE WATER.

THE CONTRACTOR SHALL DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORMWATER INFILTRATION. VELOCITY DISSIPATION DEVICES MUST BE USED TO PREVENT EROSION WHEN DIRECTING STORMWATER TO VEGETATED AREAS.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
CHAD E. SETTERHOLM, PE
DATE 02/25/2022 LICENSE NO. 40913

COTTAGE GROVE, MINNESOTA

SWPPP
GOODVIEW AVENUE WATER MAIN EXTENSION

SEDIMENT CONTROL MEASURES AND TIMING:
THE CONTRACTOR IS RESPONSIBLE FOR ALL SEDIMENT CONTROL MEASURES FOR THE PROJECT.

SEDIMENT CONTROL MEASURES SHOWN ON PLANS ARE THE ABSOLUTE MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL SEDIMENT CONTROL MEASURES AS NECESSARY TO PROPERLY MANAGE THE PROJECT AREA.

THE CONTRACTOR SHALL ENSURE SEDIMENT CONTROL MEASURES ARE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS BEFORE ANY UPGRADIENT LAND DISTURBING ACTIVITIES BEGIN. THESE MEASURES SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION HAS BEEN ESTABLISHED.

THE CONTRACTOR SHALL ENSURE SEDIMENT CONTROL PRACTICES REMOVED OR ADJUSTED FOR SHORT-TERM ACTIVITIES BE RE-INSTALLED IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY HAS BEEN COMPLETED. SEDIMENT CONTROL PRACTICES MUST BE REINSTALLED BEFORE THE NEXT PRECIPITATION EVENT EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE.

THE CONTRACTOR SHALL ENSURE STORM DRAIN INLETS ARE PROTECTED BY APPROPRIATE BMPS DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED.

THE CONTRACTOR SHALL PROVIDE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROL AT THE BASE OF THE STOCKPILES.

THE CONTRACTOR SHALL INSTALL PERIMETER CONTROL AROUND ALL STAGING AREAS, BORROW PITS, AND AREAS CONSIDERED ENVIRONMENTALLY SENSITIVE.

THE CONTRACTOR SHALL ENSURE VEHICLE TRACKING BE MINIMIZED WITH EFFECTIVE BMPS. WHERE THE BMPS FAIL TO PREVENT SEDIMENT FROM TRACKING ONTO STREETS THE CONTRACTOR SHALL CONDUCT STREET SWEEPING TO REMOVE ALL TRACKED SEDIMENT.

THE CONTRACTOR SHALL IMPLEMENT CONSTRUCTION PRACTICES TO MINIMIZE SOIL COMPACTION.

THE CONTRACTOR SHALL ENSURE ALL CONSTRUCTION ACTIVITY REMAIN WITHIN PROJECT LIMITS AND THAT ALL IDENTIFIED RECEIVING WATER BUFFERS ARE MAINTAINED.

INSPECTION AND MAINTENANCE:
ALL INSPECTIONS, MAINTENANCE, REPAIRS, REPLACEMENTS, AND REMOVAL OF BMPS IS TO BE CONSIDERED INCIDENTAL TO THE BMP BID ITEMS.

THE PERMITTEE(S) IS RESPONSIBLE FOR COMPLETING SITE INSPECTIONS, AND BMP MAINTENANCE TO ENSURE COMPLIANCE WITH THE PERMIT REQUIREMENTS.

THE PERMITTEE(S) SHALL INSPECT THE CONSTRUCTION SITE ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS.

THE PERMITTEE(S) SHALL DOCUMENT A WRITTEN SUMMARY OF ALL INSPECTIONS AND MAINTENANCE ACTIVITIES CONDUCTED WITHIN 24 HOURS OF OCCURRENCE. RECORDS OF EACH ACTIVITY SHALL INCLUDE THE FOLLOWING:

-DATE AND TIME OF INSPECTIONS;
-NAME OF PERSON(S) CONDUCTING INSPECTION;
-FINDINGS AND RECOMMENDATIONS FOR CORRECTIVE ACTIONS IF NECESSARY;
-CORRECTIVE ACTIONS TAKEN;
-DATE AND AMOUNT OF RAINFALL EVENTS;
-POINTS OF DISCHARGE OBSERVED DURING INSPECTION AND DESCRIPTION OF THE DISCHARGE
-AMENDMENTS MADE TO THE SWPPP.

THE PERMITTEE(S) SHALL SUBMIT A COPY OF THE WRITTEN INSPECTIONS TO THE ENGINEER AND OWNER ON A MONTHLY BASIS. IF MONTHLY INSPECTION REPORTS ARE NOT SUBMITTED, MONTHLY PAYMENTS MAY BE HELD.

THE CONTRACTOR SHALL DOCUMENT AMENDMENTS TO THE SWPPP AS A RESULT OF INSPECTION(S) WITHIN 7 DAYS.

THE CONTRACTOR SHALL KEEP THE SWPPP, ALL INSPECTION REPORTS, AND AMENDMENTS ONSITE. THE CONTRACTOR SHALL DESIGNATE A SPECIFIC ONSITE LOCATION TO KEEP THE RECORDS

THE CONTRACTOR IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY BMP'S, AS WELL AS EROSION AND SEDIMENT CONTROL BMP'S.

THE CONTRACTOR SHALL INSPECT EROSION PREVENTION AND SEDIMENTATION CONTROL BMPS TO ENSURE INTEGRITY AND EFFECTIVENESS. ALL NONFUNCTIONAL BMPS SHALL BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPS WITHIN 24 HOURS OF FINDING. THE CONTRACTOR SHALL INVESTIGATE AND COMPLY WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS.

PERIMETER CONTROL DEVICES, INCLUDING SILT FENCE SHALL BE REPAIRED, OR REPLACED, WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE DEVICE HEIGHT. THESE REPAIRS SHALL BE MADE WITHIN 24 HOURS OF DISCOVERY.

TEMPORARY AND PERMANENT SEDIMENT BASINS SHALL BE DRAINED AND THE SEDIMENT REMOVED WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME. DRAINAGE AND REMOVAL MUST BE COMPLETED WITHIN 72 HOURS OF DISCOVERY.

SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS, MUST BE INSPECTED FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION. THE CONTRACTOR SHALL REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS, INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS. THE CONTRACTOR SHALL RE-STABILIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL. REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN 7 DAYS OF DISCOVERY, UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL CONSTRAINTS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AUTHORITIES AND OBTAIN ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK IN SURFACE WATERS.

CONSTRUCTION SITE VEHICLE EXIT LOCATIONS SHALL BE INSPECTED DAILY FOR EVIDENCE OF SEDIMENT TRACKING ONTO PAVED SURFACES. TRACKED SEDIMENT MUST BE REMOVED FROM ALL PAVED SURFACES WITHIN 24 HOURS OF DISCOVERY.

IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED IN A MANOR AND AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.

EROSION PREVENTION BMP SUMMARY:
SEE EROSION CONTROL AND TURF ESTABLISHMENT PLAN SHEETS AND BID FORM FOR TYPE, LOCATION, AND QUANTITY OF EROSION PREVENTION BMPS.

SEDIMENT CONTROL BMP SUMMARY:
SEE EROSION CONTROL AND TURF ESTABLISHMENT PLAN SHEETS AND BID FORM FOR TYPE, LOCATION, AND QUANTITY OF SEDIMENT CONTROL BMPS.

DEWATERING AND BASIN DRAINING ACTIVITIES:
THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL DEWATERING AND SURFACE DRAINAGE REGULATIONS.

WATER FROM DEWATERING ACTIVITIES SHALL DISCHARGE TO A TEMPORARY AND/OR PERMANENT SEDIMENT BASIN.

IF WATER CANNOT BE DISCHARGED TO A SEDIMENTATION BASIN, IT SHALL BE TREATED WITH OTHER APPROPRIATE BMPS, TO EFFECTIVELY REMOVE SEDIMENT.

DISCHARGE THAT CONTAINS OIL OR GREASE MUST BE TREATED WITH AN OIL-WATER SEPARATOR OR SUITABLE FILTRATION DEVICE PRIOR TO DISCHARGE.

WATER FROM DEWATERING SHALL BE DISCHARGED IN A MANNER THAN DOES NOT CAUSE NUISANCE CONDITIONS, EROSION, OR INUNDATION OF WETLANDS.

BACKWASH WATER USED FOR FILTERING SHALL BE HAULED AWAY FOR DISPOSAL, RETURNED TO THE BEGINNING OF TREATMENT PROCESS, OR INCORPORATED INTO THE SITE IN A MANNER THAT DOES NOT CAUSE EROSION. THE CONTRACTOR SHALL REPLACE AND CLEAN FILTER MEDIAS USED IN DEWATERING DEVICES WHEN REQUIRED TO MAINTAIN ADEQUATE FUNCTION.

POLLUTION PREVENTION MANAGEMENT MEASURES:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POLLUTION PREVENTION MANAGEMENT MEASURES.

ALL POLLUTION PREVENTION MEASURES ARE CONSIDERED INCIDENTAL TO THE MOBILIZATION BID ITEM, UNLESS OTHERWISE NOTED.

THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER DISPOSAL, IN COMPLIANCE WITH MPCA DISPOSAL REQUIREMENTS, OF ALL HAZARDOUS MATERIALS, SOLID WASTE, AND PRODUCTS ON-SITE.

THE CONTRACTOR SHALL ENSURE BUILDING PRODUCTS THAT HAVE THE POTENTIAL TO LEAK POLLUTANTS ARE KEPT UNDER COVER TO PREVENT THE DISCHARGE OF POLLUTANTS.

THE CONTRACTOR SHALL ENSURE PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS ARE COVERED TO PREVENT THE DISCHARGE OF POLLUTANTS.

THE CONTRACTOR SHALL ENSURE HAZARDOUS MATERIALS AND TOXIC WASTE IS PROPERLY STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS, OR OTHER DISCHARGE. STORAGE AND DISPOSAL OF HAZARDOUS WASTE OR HAZARDOUS MATERIALS MUST BE IN COMPLIANCE WITH MINN. R. CH. 7045 INCLUDING SECONDARY CONTAINMENT AS APPLICABLE.

THE CONTRACTOR SHALL ENSURE ASPHALT SUBSTANCES USED ON-SITE SHALL ARE APPLIED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

THE CONTRACTOR SHALL ENSURE PAINT CONTAINERS AND CURING COMPOUNDS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT AND/OR CURING COMPOUNDS SHALL NOT BE DISCHARGED INTO THE STORM SEWER SYSTEM AND SHALL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURE'S INSTRUCTION.

THE CONTRACTOR SHALL ENSURE SOLID WASTE BE STORED, COLLECTED AND DISPOSED OF PROPERLY IN COMPLIANCE WITH MINN. R. CH. 7035.

THE CONTRACTOR SHALL ENSURE POTABLE TOILETS ARE POSITIONED SO THAT THEY ARE SECURE AND WILL NOT BE TIPPED OR KNOCKED OVER. SANITARY WASTE MUST BE DISPOSED OF PROPERLY IN ACCORDANCE WITH MINN. R, CH. 7041.

THE CONTRACTOR SHALL MONITOR ALL VEHICLES ON-SITE FOR LEAKS AND RECEIVE REGULAR PREVENTION MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE.

THE CONTRACTOR SHALL ENSURE WASHOUT WASTE MUST CONTACT THE GROUND AND BE PROPERLY DISPOSED OF IN COMPLIANCE WITH MPCA RULES.

THE CONTRACTOR SHALL INCLUDE SPILL KITS WITH ALL FUELING SOURCES AND MAINTENANCE ACTIVITIES. SECONDARY CONTAINMENT MEASURES SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR.

THE CONTRACTOR SHALL ENSURE SPILLS ARE CONTAINED AND CLEANED UP IMMEDIATELY UPON DISCOVERY. SPILLS LARGE ENOUGH TO REACH THE STORM WATER CONVEYANCE SYSTEM SHALL BE REPORTED TO THE MINNESOTA DUTY OFFICER AT 1.800.422.0798.

PERMIT TERMINATION CONDITIONS:
THE CONTRACTOR IS RESPONSIBLE FOR ENSURING FINAL STABILIZATION OF THE ENTIRE SITE. PERMIT TERMINATION CONDITIONS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

ALL SOIL DISTURBING ACTIVITIES HAVE BEEN COMPLETED.

ALL EXPOSED SOILS HAVE BEEN UNIFORMLY STABILIZED WITH AT LEAST 70% VEGETATION COVERAGE.

ALL DRAINAGE DITCHES, PONDS, AND ALL STORM WATER CONVEYANCE SYSTEMS HAVE BEEN CLEARED OF SEDIMENT AND STABILIZED WITH PERMANENT COVER TO PRECLUDE EROSION.

ALL TEMPORARY SYNTHETIC BMPS HAVE BEEN REMOVED AND PROPERLY DISPOSED OF.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

CHAD E. SETTERHOLM, PE
DATE 02/25/2022 LICENSE NO. 40913

COTTAGE GROVE, MINNESOTA

SWPPP
GOODVIEW AVENUE WATER MAIN EXTENSION

WELL INFORMATION																							
EXISTING WELL											WELL LOCATION INFORMATION					WELL SEAL TRACKING							
NO.	STREET	HOUSE ADDRESS	UNIQUE WELL NO.	GROUND ELEVATION AT WELL (FT)	DRILL DATE (YEAR)	CASING DIAMETER (IN)	GROUTED	WELL DEPTH (FT)	WELL CASING DEPTH (FT)	AQUIFER	NO SITE INSPECTION COMPLETED	WELL IN HOUSE/WELL PIT	TURF AROUND WELL	LANDSCAPING AROUND WELL	LANDSCAPING NOTES	MEASURED WELL DEPTH (LF)	MEASURED CASING DEPTH (LF)	STATIC WATER ELEVATION (FT)	DATE PUMP PULLED	SEALING DATE	PERFORATE CASING (LF)	TOTAL VOLUME GROUT (CY)	TOTAL VOLUME PEA GRAVEL (CY)	GAMMA LOGGED
1	70th St S	6126	493228	860	1992	4	Yes	300	290	Jordan	X												
2		6190	1000020371	872.53									X										
3		6191	1000020972	857.11								X											
4		6215	194076	865	1984	6	Yes	186	137	Prairie Du Chien			X		LAWN HYDRANT NEXT TO WELL								
5		6332	1000020372	900.36									X										
6		6340	506669	925	1989	4	Yes	380	360	Jordan			X										
7		6490	257840								X												
8	Goodview Ave S	7003	714211	923	2004	4	Yes	420	343	Jordan			X										
9		7012	692896	901	2003	4	Yes	378	360	Jordan				X	LANDSCAPING ROCK, SMALL BUSHES								
10		7025	714247	937	2005	4	Yes	420	355	Jordan			X										
11		7034	698159	905	2003	4	Yes	420	367	Jordan				X	SMALL BUSHES								
12		7047	725060	925	2005	4	Yes	400	365	Jordan				X	ROCK, DECORATIVE PLANTS								
13		7056	808492								X												
14		7061	751112	880	2007	4	Yes	375	340	Jordan			X										
15		7068	698190	865	2003	4	Yes	400	366	Jordan				X	MULCH, DECORATIVE PLANTS								
16		7077	697755	846	2004	4	Yes	340	320	Jordan			X										
17		7090	696071	851	2003	4	Yes	338	307	Jordan				X	MULCH, DECORATIVE PLANTS								
18		7101	725095	836	2005	4	Yes	360	294	Jordan			X										
19		7108	709014	835	2004	4	Yes	320	300	Jordan			X										
20		7117	725117	830	2005	4	Yes	340	294	Jordan	X												
21		7120	670757	830	2004	4	Yes	282	273	Jordan				X	LANSCAPE ROCK, DECORATIVE PLANTS								
22		7133	736386	847	2005	4	Yes	340	306	Jordan	X												
23		7140	723250	820	2005	4	Yes	320	255	Jordan				X	TALL PRAIRIE GRASS								
24		7153	713843	845	2004	4	Yes	319	280	Jordan				X	BOULDERS, DECORATIVE PLANTS								
25	Goodview Bay S	6320	722937	825	2005	4	Yes	340	301	Jordan			X										
26		6331	725079	813	2005	4	Yes	340	294	Jordan			X										
27		6340	723931	843	2005	4	Yes	340	310	Jordan	X												
28		6351	692895	820	2003	4	Yes	320	295	Jordan			X										
29		6360	751106	829	2007	4	Yes	340	297	Jordan				X	PLANTER BOX, DECORATIVE PLANTS								
30		6373	692889	828	2003	4	Yes	340	294	Jordan			X		UNDER CONIFORUS TREE CANOPY								
31		6385	705085	847	2004	4	Yes	340	301	Jordan				X	LANDSCAPE ROCK, BUSHES								
32	Goodview Ct S	6650	590055	946.54	1997	4	Yes	410	405	Jordan	X												
33		6655	575664	961	1995	4	Yes	405	399	Jordan				X	BUSHES								
34		6690	613447	940	1998	4	Yes	410	402	Jordan			X										
35		6693	573794	967	1995	4	Yes	500	460	Jordan	X												
36		6740	573798	950	1995	4	Yes	420	395	Jordan				X	DECORATIVE WOOD WELL								
37		6820	579630	940	1997	4	Yes	410	378	Jordan	X												
38		6827	558821	960	1995	4	Yes	400	375	Jordan				X	LANDSCAPE ROCK, HOSTAS								
39		6971	1000020973	947.69		6							X										
40		6992	546276	941	1995	4	Yes	380	370	Jordan				X	DECORATIVE WOOD WELL								
41		6995	1000020429									X											

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SEH Project 162976
Drawn By DSJ, JPS
Designed By CES
Checked By BSS, DSJ JPS

Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

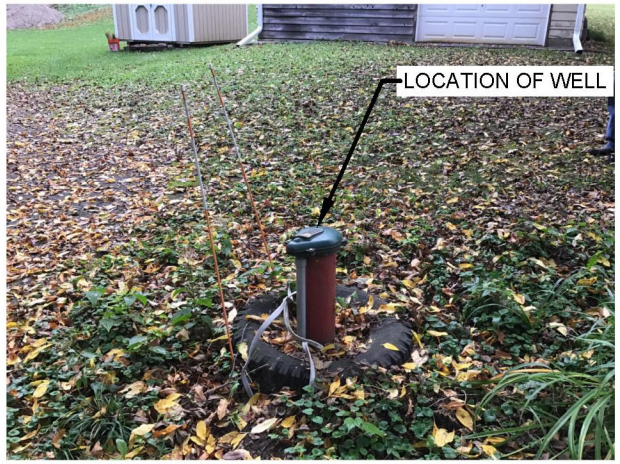
CHAD E. SETTERHOLM, PE
DATE 02/25/2022 LICENSE NO. 40913

COTTAGE GROVE, MINNESOTA

WELL LANDSCAPING
GOODVIEW AVENUE WATER MAIN EXTENSION

NO WELL PICTURE IS AVAILABLE AS OF 2/22/2022
DUE TO PROPERTY OWNER NOT PARTICIPATING
IN PRE-PROJECT SITE INSPECTION

6126 70TH STREET SOUTH



6190 70TH STREET SOUTH



6191 70TH STREET SOUTH



6215 70TH STREET SOUTH



6332 70TH STREET SOUTH



6340 70TH STREET SOUTH

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SEH Project	162976	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date	SEH	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. CHAD E. SETTERHOLM, PE DATE 02/25/2022 LICENSE NO. 40913	COTTAGE GROVE, MINNESOTA	WELL LANDSCAPE DETAILS GOODVIEW AVENUE WATER MAIN EXTENSION	48 of 54
Drawn By	DSJ, JPS										
Designed By	CES										
Checked By	BSS, DSJ, JPS										

NO WELL PICTURE IS AVAILABLE AS OF 2/22/2022
DUE TO PROPERTY OWNER NOT PARTICIPATING
IN PRE-PROJECT SITE INSPECTION

6490 70TH STREET SOUTH



7003 GOODVIEW AVE SOUTH



7012 GOODVIEW AVE SOUTH



7025 GOODVIEW AVE SOUTH



7034 GOODVIEW AVE SOUTH



7047 GOODVIEW AVE SOUTH

SEH Project	162976	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	COTTAGE GROVE, MINNESOTA	WELL LANDSCAPE DETAILS GOODVIEW AVENUE WATER MAIN EXTENSION	49
Drawn By	DSJ, JPS							CHAD E. SETTERHOLM, PE			of 54
Designed By	CES							DATE 02/25/2022 LICENSE NO. 40913			
Checked By	BSS, DSJ, JPS										

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NO WELL PICTURE IS AVAILABLE AS OF 2/22/2022
DUE TO PROPERTY OWNER NOT PARTICIPATING
IN PRE-PROJECT SITE INSPECTION

7056 GOODVIEW AVE SOUTH

NO WELL PICTURE IS AVAILABLE AS OF 2/22/2022
DUE TO PROPERTY OWNER NOT PARTICIPATING
IN PRE-PROJECT SITE INSPECTION

7061 GOODVIEW AVE SOUTH



7068 GOODVIEW AVE SOUTH



7077 GOODVIEW AVE SOUTH



7090 GOODVIEW AVE SOUTH



7101 GOODVIEW AVE SOUTH

Save: 2/22/2022 10:36 AM djacobsen Plot: 2/24/2022 11:33 AM K:\AE\C\COTTG\162976\5-final-design\51-drawings\10-Civil\cad\dwg\sheet\COTTG162976WELL.dwg

SEH Project	162976	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date	SEH	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. CHAD E. SETTERHOLM, PE DATE 02/25/2022 LICENSE NO. 40913
Drawn By	DSJ, JPS								
Designed By	CES								
Checked By	BSS, DSJ, JPS								

COTTAGE GROVE, MINNESOTA

WELL LANDSCAPE DETAILS
GOODVIEW AVENUE WATER MAIN EXTENSION



7108 GOODVIEW AVE SOUTH

NO WELL PICTURE IS AVAILABLE AS OF 2/22/2022
DUE TO PROPERTY OWNER NOT PARTICIPATING
IN PRE-PROJECT SITE INSPECTION

7117 GOODVIEW AVE SOUTH



7120 GOODVIEW AVE SOUTH

NO WELL PICTURE IS AVAILABLE AS OF 2/22/2022
DUE TO PROPERTY OWNER NOT PARTICIPATING
IN PRE-PROJECT SITE INSPECTION

7133 GOODVIEW AVE SOUTH



7140 GOODVIEW AVE SOUTH



7153 GOODVIEW AVE SOUTH

SEH Project	162976
Drawn By	DSJ, JPS
Designed By	CES
Checked By	BSS, DSJ, JPS

Rev.# | Revision Issue Description | Date | Rev.# | Revision Issue Description | Date

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

CHAD E. SETTERHOLM, PE

DATE 02/25/2022 LICENSE NO. 40913

COTTAGE GROVE, MINNESOTA

WELL LANDSCAPE DETAILS
GOODVIEW AVENUE WATER MAIN EXTENSION

Save: 2/25/2022 10:36:39AM C:\Users\dsjohnson\Proj\...\WELL.dwg



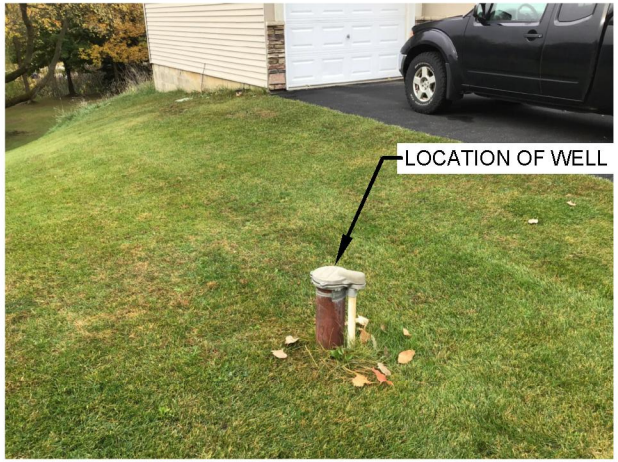
6320 GOODVIEW BAY SOUTH



6331 GOODVIEW BAY SOUTH



6340 GOODVIEW BAY SOUTH



6351 GOODVIEW BAY SOUTH



6360 GOODVIEW BAY SOUTH



6373 GOODVIEW BAY SOUTH

Date: 3/29/2022 10:36:34 AM User: dpeterson Plot: 3/29/2022 11:38:34 AM X:\AE\C\COTTAGE\162976\Final\dwg\sht\Landscape\Well\COTTAGE162976WELL.dwg

SEH Project	162976	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date	SEH	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. CHAD E. SETTERHOLM, PE DATE 02/25/2022 LICENSE NO. 40913	COTTAGE GROVE, MINNESOTA	WELL LANDSCAPE DETAILS GOODVIEW AVENUE WATER MAIN EXTENSION	52 of 54
Drawn By	DSJ, JPS								
Designed By	CES								
Checked By	BSS, DSJ, JPS								



6385 GOODVIEW BAY SOUTH

NO WELL PICTURE IS AVAILABLE AS OF 2/22/2022
DUE TO PROPERTY OWNER NOT PARTICIPATING
IN PRE-PROJECT SITE INSPECTION

6650 GOODVIEW COURT SOUTH



6655 GOODVIEW COURT SOUTH



6690 GOODVIEW COURT SOUTH

NO WELL PICTURE IS AVAILABLE AS OF 2/22/2022
DUE TO PROPERTY OWNER NOT PARTICIPATING
IN PRE-PROJECT SITE INSPECTION

6693 GOODVIEW COURT SOUTH



6740 GOODVIEW COURT SOUTH

SEH Project	162976	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	**COTTAGE GROVE, MINNESOTA**	WELL LANDSCAPE DETAILS GOODVIEW AVENUE WATER MAIN EXTENSION	53
Drawn By	DSJ, JPS							CHAD E. SETTERHOLM, PE			of 54
Designed By	CES							DATE 02/25/2022 LICENSE NO. 40913			
Checked By	BSS, DSJ, JPS										

Save: 2/22/2022 10:36 AM dsjohnson Plot: 2/24/2022 11:38 AM K:\ME\COGTR\162976\Final\dwg\Plan\dwg\Plan\dwg\WELL.dwg

NO WELL PICTURE IS AVAILABLE AS OF 2/22/2022
DUE TO PROPERTY OWNER NOT PARTICIPATING
IN PRE-PROJECT SITE INSPECTION

6820 GOODVIEW COURT SOUTH



6827 GOODVIEW COURT SOUTH



6971 GOODVIEW COURT SOUTH



6992 GOODVIEW COURT SOUTH





6995 GOODVIEW COURT SOUTH

SEH Project	162976	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	COTTAGE GROVE, MINNESOTA	WELL LANDSCAPE DETAILS GOODVIEW AVENUE WATER MAIN EXTENSION	54
Drawn By	DSJ, JPS							CHAD E. SETTERHOLM, PE			of 54
Designed By	CES							DATE 02/25/2022 LICENSE NO. 40913			
Checked By	BSS, DSJ, JPS										

Saved: 3/9/2022 10:36 AM User: dsjohnson Print: 3/9/2022 11:38 AM X:\AE\C\COTTG\162976\5-Final\dwg\ROW\Goodview\Well\COTTG162976WELL.dwg

City Council Action Request

7N

Meeting Date	3/2/2022
Department	Public Works
Agenda Category	Consent Agenda
Title	Low Zone Raw Water Main Project – Approve Plans and Specifications and Establish a Bid Date
Staff Recommendation	Adopt Resolution 2022-031 approving the plans and specifications and establishing a March 24, 2022 bid date for the Low Zone Raw Water Main Project.
Budget Implication	$2,485,000 - 3M Settlement Agreement
Attachments	Low Zone Raw Water Main CC Memo.tif 7.07MB Low Zone Raw Water Main Resolution.tif 1.96MB Low Zone Raw Water Main Plans & Specs.tif 57.68MB

Cottage Grove
Where Pride and Prosperity Meet

To: Honorable Mayor and City Council
Jennifer Levitt, City Administrator

From: Ryan Burfeind, P.E., Public Works Director/City Engineer

Date: March 2, 2022

Re: Low Zone Raw Water Main Project – Approve Plans and Specifications and Establish a Bid Date

---

Background

In late December 2021 and early January 2022, the City entered into two grant agreements with the Minnesota Pollution Control Agency (MPCA) for the Low Zone Raw Water Main Project, Phases 1 and 2. These agreements secured funding through the 3M Settlement Agreement to install sections of the future raw water mains that will convey raw (untreated) water from Well #10 southerly to the future low zone water treatment plant that will be located at the northeast corner of Ideal Avenue and 100th Street South. These water mains are planned to be constructed now, both phases in one project, in coordination with the development occurring adjacent to and along the water main alignment.

Discussion

Summary of Improvements

The proposed project includes construction of a 16-inch watermain from Well #10 (just north of 95th Street) southerly through the industrial park to 100th Street. From there it will continue east along 100th Street to Ideal Avenue. Then it will turn south and traverse along Ideal Avenue and end just south of 105th Street. The final southerly stretch of this watermain will be constructed and connected to the treatment plant at Ideal Avenue and 110th Street at the time the treatment plant is constructed.

In addition, a section of the watermain that will convey the treated water from the future treatment plant to the City's distribution system will be constructed with this project. This 20-inch watermain will be located in a joint trench with the previously discussed raw watermain along Ideal Avenue. Construction of this watermain will start on Ideal Avenue just south of 105th Street in the same area as the terminus of the raw watermain and traverse northerly along Ideal Avenue to 100th Street. It will then turn easterly in its own trench along 100th Street and connect to the City's system at Jamaica Avenue and 100th Street. The final southerly stretch of this watermain will be constructed and connected to the treatment plant at Ideal Avenue and 110th Street at the time the treatment plant is constructed.

The necessary permanent and temporary construction easements have been acquired through the industrial park. The remainder of the watermain alignments stay within road rights-of-way.

Plans and Specifications

Plans and specifications have been prepared in accordance with City standards and specifications. The engineer's estimate for the construction of the improvements is $2,485,000. The costs outlined for the specific improvements will be fully funded through the 3M Settlement Agreement.

Bid Date

A bid date of March 24, 2022, at 10:30 a.m. will provide ample time to provide required notification to contractors. A pre-bid meeting will also be held to allow contractors to ask clarifying questions prior to bidding.

Recommendation

It is recommended that the City Council adopt the attached resolution approving the plans and specifications and establishing a March 24, 2022 bid date for the Low Zone Raw Water Main Project.

CITY OF COTTAGE GROVE, MINNESOTA
CITY COUNCIL
RESOLUTION 2022-XXX

RESOLUTION APPROVING THE PLANS AND SPECIFICATIONS AND ESTABLISHING A BID DATE FOR THE LOW ZONE RAW WATER MAIN PROJECT

WHEREAS, plans and specifications have been prepared in accordance with the City Standards and Specifications for the Low Zone Raw Water Main Project; and

WHEREAS, a bid date has been established for March 24, 2022; and

WHEREAS, the City Engineer has presented such plans and specifications to the City Council for approval.

NOW, THEREFORE, BE IT RESOLVED, the City Council of the City of Cottage Grove, County of Washington, State of Minnesota, approves the plans and specifications and establishes a bid date of March 24, 2022, for the Low Zone Raw Water Main Project.

Passed this 2nd day of March, 2022.

_____
Myron Bailey, Mayor

Attest:

_____
Joe Fischbach, City Clerk

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWINGS. ANY DISCREPANCIES SHALL BE REPORTED TO STANTEC IMMEDIATELY.
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CITY OF COTTAGE GROVE, MINNESOTA

RAW WATER MAIN EXTENSION IMPROVEMENTS PHASE 1 & 2

STANTEC PROJECT NO. 193805466

CONSTRUCTION PLAN FOR: DOMESTIC WATER MAIN AND RAW WATER MAIN IMPROVEMENTS.

LOCATED ON HEMINGWAY AVENUE S. FROM 95TH STREET S. TO 100TH STREET S.

LOCATED ON 100TH STREET S. FROM HEMINGWAY AVENUE S. TO JAMAICA AVENUE S.

LOCATED ON IDEAL AVENUE S. FROM 100TH STREET S. TO 4200' SOUTH OF 100TH STREET S.

DESIGN DESIGNATION 100TH STREET S.

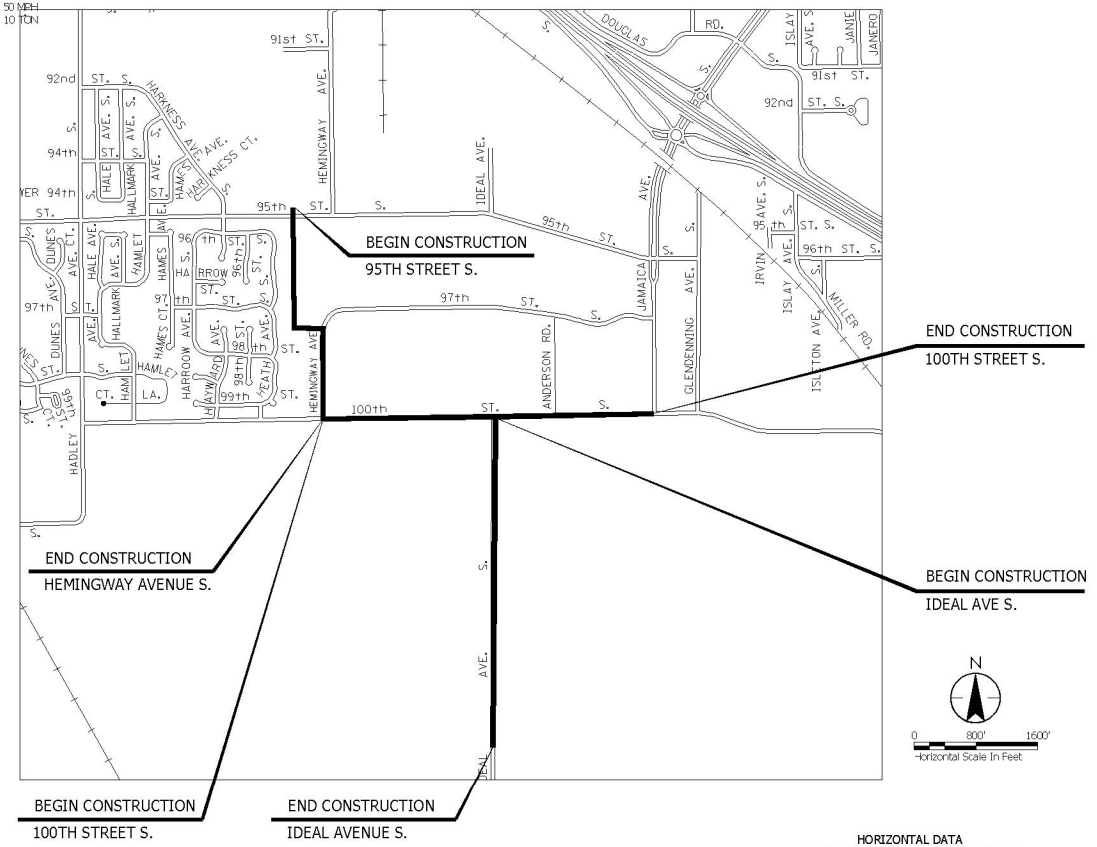
DESIGNATION	URBAN	RURAL
FUNCTIONAL CLASS	MINOR ARTERIAL	MINOR ARTERIAL
NO. OF TRAFFIC LANES	2	2
NO. OF PARKING LANES	0	0
DRIVING LANE WIDTH	12'	12'
SHOULDER WIDTH	N/A	6'
R-VALUE	XX	XX
20 YEAR ESALS	4,768,000	385,000
ADT (PRESENT YEAR) 2020	12,900	3,000
ADT (FUTURE YEAR) 2040	16,700	4,370
HCADT (FUTURE YEAR) 2040	8.6%	4.3%
DESIGN SPEED	50 MPH	50 MPH
DESIGN LOAD	10 TON	10 TON
DESIGN SPEED BASED ON STOPPING SIGHT DISTANCE:		
HEIGHT OF EYE = 3.5 FT		
HEIGHT OF OBJECT = 2.0 FT		
DESIGN SPEED NOT ACHIEVED AT:		

DESIGN DESIGNATION 105TH STREET S.

DESIGNATION	URBAN
FUNCTIONAL CLASS	LOCAL
NO. OF TRAFFIC LANES	2
NO. OF PARKING LANES	0
DRIVING LANE WIDTH	12'
SHOULDER WIDTH	N/A
R-VALUE	20
20 YEAR ESALS	193,000
ADT (PRESENT YEAR) 2020	1,500
ADT (FUTURE YEAR) 2040	1,900
HCADT (FUTURE YEAR) 2040	4.3%
DESIGN SPEED	40 MPH
DESIGN LOAD	10 TON
DESIGN SPEED BASED ON STOPPING SIGHT DISTANCE:	
HEIGHT OF EYE = 3.5 FT	
HEIGHT OF OBJECT = 2.0 FT	
DESIGN SPEED NOT ACHIEVED AT:	

DESIGN DESIGNATION IDEAL AVENUE S.

DESIGNATION	URBAN
FUNCTIONAL CLASS	LOCAL
NO. OF TRAFFIC LANES	2
NO. OF PARKING LANES	0
DRIVING LANE WIDTH	12'
SHOULDER WIDTH	N/A
R-VALUE	20
20 YEAR ESALS	4,846,000
ADT (PRESENT YEAR) 2020	2,150
ADT (FUTURE YEAR) 2040	2,790
HCADT (FUTURE YEAR) 2040	52%
DESIGN SPEED	40 MPH
DESIGN LOAD	10 TON
DESIGN SPEED BASED ON STOPPING SIGHT DISTANCE:	
HEIGHT OF EYE = 3.5 FT	
HEIGHT OF OBJECT = 2.0 FT	
DESIGN SPEED NOT ACHIEVED AT:	



SCALES

INDEX MAP 0 800' 1600' Horizontal Scale In Feet

PLAN VIEW 0 25' 50' Horizontal Scale In Feet

PROFILE VIEW 0 10' 20' Horizontal Scale In Feet

PROJECT LOCATION



PROJECT LOCATION
CITY: COTTAGE GROVE
COUNTY: WASHINGTON
DISTRICT: METRO

HORIZONTAL DATA
WASHINGTON COUNTY COORDINATE SYSTEM
DATUM: NAD83, 1996 ADJUSTMENT
UNITS: US SURVEY FOOT

VERTICAL DATA
DATUM: NGVD88

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA.

COMMENTS	DATE

--- GOVERNING SPECIFICATIONS ---

THE CITY OF COTTAGE GROVE "STANDARD SPECIFICATIONS FOR UTILITY AND STREET CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

INDEX

SHEET NO.	SHEET DESCRIPTION
1	TITLE SHEET
2	LEGEND
3	GENERAL LAYOUT
4	CONSTRUCTION NOTES & STAGING PLAN
5	TYPICAL SECTIONS
6 - 8	CONSTRUCTION DETAILS
9 - 12	STANDARD PLANS
13 - 27	INPLACE UTILITIES, REMOVALS, & CONSTRUCTION PLAN
35 - 42	WATER MAIN PLAN & PROFILE

THIS PLAN CONTAINS 42 SHEETS

Cottage Grove — Where Pride and Prosperity Meet

Stantec

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME DAVID R. SANOCKI LIC. NO. 40973

SIGNATURE David R. Sanocki DATE 2-25-2022

DATE _____

APPROVED: COTTAGE GROVE PUBLIC WORKS DIRECTOR/CITY ENGINEER

Plot Date: 10/25/2022 - 11:16am
Plotted By: Ron Zweifel
Path: C:\Projects\193805466\CAD\Dwg\Ron Zweifel\193805466_GA01.dwg
Xrefs: Cottage Grove_City

EXISTING TOPOGRAPHIC SYMBOLS

- STORM SEWER APRON
- BASKETBALL POST
- BARRICADE PERMANENT
- BENCH
- BOOSTER STATION
- BUILDING LOWEST OPENING
- BURIAL CONTROL MONUMENT
- BUSH DECIDUOUS
- CATCH BASIN BEEHIVE
- CURB BOX
- CATCH BASIN
- COLUMN
- CONTROL BOX SIGNAL
- CLEAN OUT (SEWER)
- CULVERT END
- DRINKING FOUNTAIN
- ENERGY DISSIPATER
- FLAG POLE
- FUEL PUMP
- GUY WIRE
- GRILL
- HANDICAP SPACE
- HANDHOLE
- FIRE HYDRANT
- HYDRANT PVMNT MARKER (REFLECTOR)
- HYDRANT VALVE
- INLET (SMALL DIA.)
- LIFT STATION CONTROL PANEL
- LIFT STATION DRY WELL
- LIFT STATION WET WELL
- LIGHT YARD
- LOOP DETECTOR
- MAIL BOX
- MAIL RELAY BOX
- MANHOLE-AIR RELEASE
- MANHOLE-HEAT
- MANHOLE-GAS
- MANHOLE-POWER
- MANHOLE-SANITARY SEWER
- MANHOLE-STORM SEWER
- MANHOLE-COMMUNICATIONS
- MANHOLE-UNKNOWN
- MANHOLE-WATER
- METER POWER
- METER GAS
- ORDINARY HIGH WATER MARK
- OUTLET CONTROL STRUCTURE
- PARKING METER
- PEDESTRIAN PUSH BUTTON
- PEDESTAL POWER
- PEDESTAL CATV
- PEDESTAL COMMUNICATIONS
- POST INDICATOR VALVE
- POLE-COMMUNICATIONS
- POLE-GUY
- POLE-LIGHT
- POLE-POWER
- POLE-UTILITY
- POLE-UTILITY SERVICE
- POST
- PROPANE TANK
- PICNIC TABLE
- SAMPLING WELL
- ROCK
- RR SIGNAL CONTROL BOX
- RR CROSSING GATE
- RR SIGNAL
- REGULATION STATION GAS
- SATELLITE DISH
- SEPTIC TANK
- SEPTIC VENT
- SEPTIC DRAIN FIELD
- SIGN
- SOIL BORING
- STAND PIPE GAS
- SPIGOT WATER
- SPRINKLER HEAD
- SPRINKLER VALVE BOX
- STUMP
- SERVICE-GAS POINT ON LINE
- SERVICE-SANITARY SEWER POINT ON LINE
- SERVICE-STORM SEWER POINT ON LINE
- SERVICE-WATER POINT ON LINE
- TELEPHONE BOOTH
- TRANSMISSION TOWER ELECTRIC
- TEST PIT LOC
- TRACER WIRE BOX
- TRANSFORMER POWER
- TREE DEAD
- TREE-CONIFEROUS
- TREE-DECIDUOUS
- TREE-FRUIT
- TRASH CAN
- TRAFFIC SIGNAL
- VALVE GAS
- VALVE
- VENT GAS
- WATER REDUCER
- WETLAND
- WELL-MONITORING
- WELL-WATER

SURVEY SYMBOLS

- AERIAL CONTROL POINT
- BACKSIGHT CONTROL POINT
- GPS CONTROL POINT
- JUDICIAL LAND MONUMENT
- MONUMENT COMPUTED
- MONUMENT IRON FOUND
- MONUMENT IRON SET
- RESECTED POINT
- ROW MONUMENT
- ROW MARKER POST
- SECTION CORNER
- TRAVERSE CONTROL POINT
- BENCH MARK LOCATION

NEW TOPOGRAPHIC SYMBOLS

- BOLLARD
- SANITARY CLEANOUT
- MANHOLE
- SANITARY OR STORM LIFT STATION
- STORM SEWER BEEHIVE CATCH BASIN
- STORM SEWER CATCH BASIN
- STORM SEWER FLARED END SECTION
- STORM SEWER OUTLET STRUCTURE
- STORM SEWER OVERFLOW STRUCTURE
- CURB BOX
- FIRE HYDRANT
- WATER REDUCER
- VALVE
- RIP RAP
- DRAINAGE FLOW
- PEDESTRIAN RAMP

EXISTING PRIVATE UTILITY LINES

- CABLE TV QUALITY LEVEL D
- CABLE TV QUALITY LEVEL C
- CABLE TV QUALITY LEVEL B
- CABLE TV QUALITY LEVEL A
- FIBER OPTIC QUALITY LEVEL D
- FIBER OPTIC QUALITY LEVEL C
- FIBER OPTIC QUALITY LEVEL B
- FIBER OPTIC QUALITY LEVEL A
- POWER QUALITY LEVEL D
- POWER QUALITY LEVEL C
- POWER QUALITY LEVEL B
- POWER QUALITY LEVEL A
- GAS QUALITY LEVEL D
- GAS QUALITY LEVEL C
- GAS QUALITY LEVEL B
- GAS QUALITY LEVEL A
- COMMUNICATION QUALITY LEVEL D
- COMMUNICATION QUALITY LEVEL C
- COMMUNICATION QUALITY LEVEL B
- COMMUNICATION QUALITY LEVEL A
- OVERHEAD POWER
- OVERHEAD COMMUNICATION
- OVERHEAD UTILITIES

EXISTING TOPOGRAPHIC LINES

- RETAINING WALL
- FENCE - BARBED WIRE
- FENCE - CHAIN LINK
- FENCE - DECORATIVE
- FENCE - STOCKADE
- FENCE - WOOD
- FENCE - ELECTRIC
- GUARD RAIL
- TREE LINE
- WETLAND

SURVEY LINES

- BOUNDARY
- NEW CENTERLINE
- EXISTING CENTERLINE
- EXISTING EASEMENT LINE
- NEW EASEMENT LINE
- FLOOD PLAIN BOUNDARY
- EXISTING LOT LINE
- NEW LOT LINE
- EXISTING RIGHT-OF-WAY
- NEW RIGHT-OF-WAY
- SETBACK LINE

EXISTING UTILITY LINES

- FORCE MAIN
- SANITARY SEWER
- SANITARY SERVICE
- STORM SEWER
- WATER MAIN
- WATER SERVICE

NEW UTILITY LINES

- FORCE MAIN
- SANITARY SEWER
- SANITARY SERVICE
- STORM SEWER DRAINTILE
- STORM SEWER
- WATER MAIN
- WATER SERVICE
- PIPE CASING

FUTURE UTILITY LINES

- FORCE MAIN
- SANITARY SEWER
- SANITARY SERVICE
- STORM SEWER DRAINTILE
- STORM SEWER
- WATER MAIN
- WATER SERVICE
- PIPE CASING

CONCRETE CURB AND GUTTER

- EXISTING
- NEW
- FUTURE
- DEMOLITION

GRADING INFORMATION

- EXISTING CONTOUR MINOR
- EXISTING CONTOUR MAJOR
- NEW CONTOUR MINOR
- NEW CONTOUR MAJOR
- NEW GRADING LIMITS / SLOPE LIMITS
- NEW SPOT ELEVATION
- EXISTING SPOT ELEVATION
- RISE:RUN (SLOPE)

ABBREVIATIONS

AD	ALGEBRAIC DIFFERENCE
BV	BUTTERFLY VALVE
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
℄	CENTER LINE
CL.	CLASS
CMP	CORRUGATED METAL PIPE
C.O.	CHANGE ORDER
DIP	DUCTILE IRON PIPE
EL/ELEV	ELEVATION
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EX	EXISTING
FES	FLARED END SECTION
F/F	FACE TO FACE
FM	FORCE MAIN
F.O.	FIELD ORDER
GV	GATE VALVE
HP	HIGH POINT
HWL	HIGH WATER LEVEL
INV	INVERT
K	CURVE COEFFICIENT
LP	LOW POINT
MH	MANHOLE (SANITARY)
NTS	NOT TO SCALE
NWL	NORMAL WATER LEVEL
PC	POINT OF CURVE
PCC	COMPOUND CURVE
PI	POINT OF INTERSECTION
℗	PROPERTY LINE
PPVC	PERFORATED POLYVINYL CHLORIDE PIPE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENT
PVC	POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT-OF-WAY
SS	STORM SEWER STRUCTURE
STA	STATION
TCE	TEMPORARY CONSTRUCTION EASEMENT
TNH	TOP NUT HYDRANT
TYP	TYPICAL
VC	VERTICAL CURVE
WM	WATER MAIN

NO	DATE	APPR	REVISION

SURVEY	FB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

PRINT NAME: DAVID R. SANOCKI

SIGNATURE:

DATE: 2/25/2022 LIC. NO. 40973

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733 Marquette Ave Suite 1000
Minneapolis, MN 55402-2309
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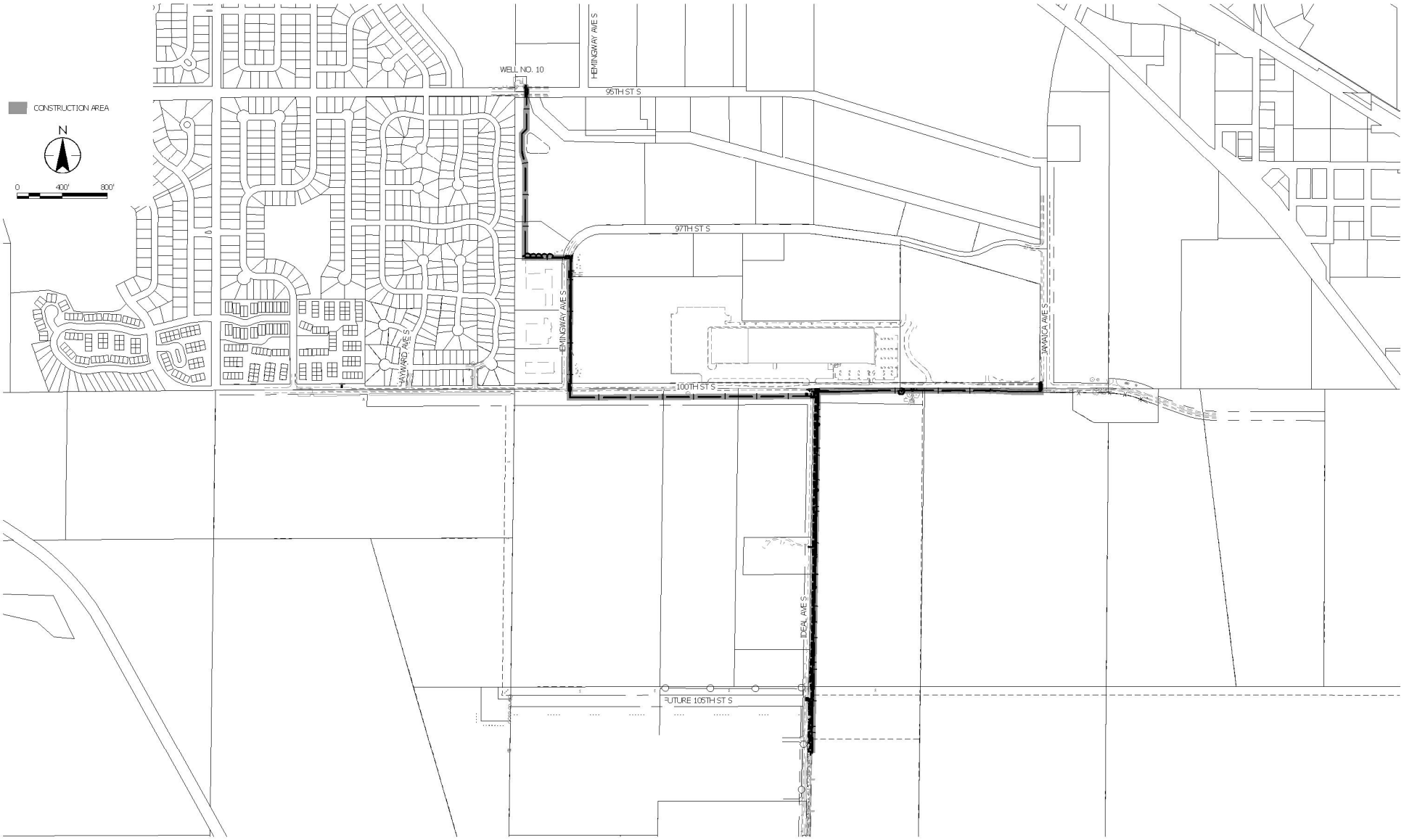
LEGEND

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

SHEET 2 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO STANTEC. THE CONTRACTOR IS TO ASSUME ANY AND ALL RISK ASSOCIATED WITH THE USE OF ELECTRONIC FILES. THE COPYRIGHTS TO ALL DESIGNS AND DRAWINGS ARE THE PROPERTY OF STANTEC. REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THOSE AUTHORIZED BY STANTEC IS FORBIDDEN.

Plot Date: 02/25/2022 - 11:07am
Drawing name: L:\1938054\Cad\Dwg\Plan Sheets\193805466_0002.dwg
Xref: 193805466_STANTEC



NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

PRINT NAME: DAVID R. SANOCKI

SIGNATURE:

DATE: 2/25/2022 LIC. NO. 49973

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Minneapolis, MN 55402-2309
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GENERAL LAYOUT

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

SHEET 3 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING - ANY ERRORS, OMISSIONS OR DISCREPANCIES SHALL BE REPORTED TO STANTEC IMMEDIATELY. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL CONSTRUCTION METHODS AND SAFETY MEASURES REQUIRED TO COMPLY WITH OSHA STANDARDS AND REGULATIONS. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED AND SEALED.

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SOILS AND CONSTRUCTION NOTES

1. THE GRADING GRADE IS DEFINED AS THE BOTTOM OF THE SELECT GRANULAR BORROW OR AGGREGATE BASE WHERE NO SELECT BORROW IS PROPOSED.
2. SUITABLE GRADING MATERIAL ON THIS PROJECT SHALL CONSIST OF ALL SOILS ENCOUNTERED EXCEPT TOPSOIL, DEBRIS, ORGANIC MATERIAL AND OTHER UNSTABLE MATERIAL.
3. GRANULAR MATERIAL SHALL MEET THE REQUIREMENTS OF SPEC. 3149.2B
4. SELECT GRANULAR BORROW REGARDLESS OF SOURCE SHALL MEET THE REQUIREMENTS OF MnDOT SPEC. 3149.2B2.
5. SLOPE DRESSING IS DEFINED AS THE INPLACE TOPSOIL OR OTHER SOIL PLACED DURING PRIOR CONSTRUCTION TO PROVIDE A MEDIUM FOR ESTABLISHING TURF.
6. ANY DEBRIS WHICH MAY BE ENCOUNTERED BY THE CONTRACTOR DURING GRADING SHALL BE DISPOSED OF BY THE CONTRACTOR OFF THE PROJECT RIGHT OF WAY IN A SUITABLE DISPOSAL AREA AS APPROVED BY THE ENGINEER.
7. BITUMINOUS AND CONCRETE ITEMS DISTURBED BY CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE RECYCLED TO THE EXTENT ALLOWED IN THE BASE AND SURFACING ITEMS OR DISPOSED OF OFF OF THE RIGHT OF WAY IN ACCORDANCE WITH MNDOT SPECIFICATION 2104.3C.
8. THE NEW UTILITY INSTALLATIONS AND IMPROVEMENTS WHICH ARE DEEPER THAN THE SUBGRADE IMPROVEMENT ZONE SHOULD BE PERFORMED PRIOR TO SUBGRADE PREPARATION. PROPER BEDDING OF PIPES APPEARS ON THE ATTACHED SHEET ENTITLED "BEDDING/FOUNDATION SUPPORT OF BURIED PIPE." BACKFILL COMPACTION SHALL MEET THE REQUIREMENTS OF MNDOT 2106.3F1 (SPECIFIED DENSITY METHOD). (INCIDENTAL)
9. MATERIALS DEFINED AS UNSUITABLE (TOPSOIL, ORGANIC, DEBRIS) MUST BE REMOVED FROM THE EMBANKMENT FOUNDATION. THE UNSUITABLE MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH SPEC. 2104 AND 2106.
10. WHERE SOILS ARE DRY AND STABLE, THE SUBCUT BOTTOM SHALL BE COMPACTED BY THE QUALITY COMPACTION METHOD AND INCLUDE A MINIMUM OF 4 PASSES WITH AN APPROVED ROLLER. COMPACTION SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER AND ACCORDING TO MNDOT SPECIFICATION 2106.3F2.
11. TEST ROLLING WILL BE REQUIRED. (INCIDENTAL)
12. IF INSTABILITY IS NOTED UNDER THE COMPACTION PROCESS, A COMPACTION SUBCUT SHALL BE PERFORMED. THE COMPACTION SUBCUT THICKNESS SHALL BE ONE FOOT, OR AS DIRECTED BY THE ENGINEER, PAID FOR AS SUBGRADE EXCAVATION.
13. COMPACTION OF SUITABLE GRADING MATERIAL SHALL BE IN ACCORDANCE WITH THE SPECIFIED DENSITY METHOD.
14. COMPACTION OF AGGREGATE BASE SHALL BE IN ACCORDANCE WITH THE SPECIFIED DENSITY METHOD.
15. PROVIDE FOR A UNIFORM BITUMINOUS TACK COAT BETWEEN ALL BITUMINOUS COURSES. THE TACK SHALL BE APPLIED IN ACCORDANCE WITH MNDOT SPECIFICATION 2357. THE ROADWAY SURFACE SHALL BE CLEAN AND FREE OF DEBRIS PRIOR TO APPLYING TACK. BITUMINOUS TACK COAT MATERIAL SHALL BE APPLIED AT A UNIFORM RATE OF 0.03 TO 0.05 GAL/SQ YD BETWEEN NEW BITUMINOUS LAYERS PLACED THAT HAVE BEEN SUBJECTED TO TRAFFIC AND A RATE OF 0.07 TO 0.10 GAL/SQ YD ON TRAFFICKED BITUMINOUS SURFACES TO BE OVERLAID. THESE APPLICATION RATES ARE FOR UNDILUTED EMULSION (AS SUPPLIED FROM THE REFINERY) OR MC LIQUID ASPHALT. (INCIDENTAL)
16. ALL BITUMINOUS MIXTURES SHALL MEET THE REQUIREMENTS OF SPEC. 2360.
17. ALL BITUMINOUS FINAL SURFACES WILL BE SUBJECT TO STRAIGHT EDGE SMOOTHNESS REQUIREMENTS AS FOLLOWS:
    - THE SURFACE OF THE FINAL TWO LIFTS PLACED SHALL SHOW NO VARIATION GREATER THAN 1/4 INCH FROM THE EDGE OF A 10 FOOT STRAIGHTEDGE LAID PARALLEL TO OR AT RIGHT ANGLES TO THE CENTERLINE.
    - SHOULDER SURFACING AND SURFACING ON TEMPORARY CONNECTIONS AND BYPASS SHALL SHOW NO VARIATIONS GREATER THAN 1/4 INCH FROM THE EDGE OF A 10 FOOT STRAIGHTEDGE LAID PARALLEL TO THE CENTERLINE.
19. PROVIDE A SAWCUT TO ENSURE A UNIFORM JOINT WHERE PLACING NEW PAVEMENT NEXT TO INPLACE PAVEMENT.
20. WHERE CONNECTING TO INPLACE ROADWAYS AT THE TERMINI OF PROPOSED NEW CONSTRUCTION, CUT VERTICALLY TO THE BOTTOM OF THE INPLACE SURFACING OR TO THE BOTTOM OF THE NEW PROPOSED SURFACING, WHICHEVER IS DEEPER, THEN AT A 1:20 TAPER TO THE BOTTOM OF THE RECOMMENDED EXCAVATION.
21. PROVIDE 1:20 TAPERS WHERE APPLICABLE FOR CHANGES IN MATERIAL TYPES TO PREVENT AN ABRUPT SOIL DIFFERENTIAL. TAPERS BETWEEN PLASTIC AND GRANULAR SOILS SHOULD BE CONSTRUCTED SO THAT THE GRANULAR SOIL OVERLAYS THE PLASTIC SOIL.
22. AS A PRECAUTIONARY MEASURE FROM A SOILS STANDPOINT, TRAFFIC LANES TO BE USED DURING CONSTRUCTION MUST BE DELINEATED TO KEEP VEHICLES A SAFE DISTANCE AWAY FROM THE ADJACENT EXCAVATION. THE DELINEATION SHOULD COINCIDE WITH POINTS ESTABLISHED BY PROJECTING 1:2 OR GREATER (FLATTER) SLOPE BETWEEN THE EDGE OF THE TRAFFIC SURFACE AND THE BOTTOM OF THE EXCAVATION. A 1:3 OR FLATTER SLOPE WILL BE REQUIRED IN SWAMP EXCAVATION AREAS.
23. THE TOP OF BACKSLOPES AND THE TOE OF FILL SLOPES SHALL BE ROUNDED TO NATURALIZE THE CONSTRUCTION EVEN THOUGH THE CROSS SECTIONS DO NOT SHOW ROUNDING.
24. THE CONTRACTOR IS HEREBY REMINDED OF THE RESPONSIBILITY UNDER STATE LAW TO CONTACT ALL UTILITIES THAT MAY HAVE FACILITIES IN THE AREA. CONTACT MUST BE MADE THROUGH GOPHER STATE ONE-CALL.
25. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN AREAS OF POSSIBLE CONFLICTS WITH PROPOSED UTILITIES. ALL LOCATING, GRADE CHANGES TO PROPOSED UTILITIES, CUTTING, INVERT CHANGES, MODIFICATIONS TO STRUCTURES, CONSTRUCTION CREW "DOWN TIME" AND ADDITIONAL ADJUSTMENT RINGS REQUIRED TO CONSTRUCT PROPOSED UTILITIES UNDER/OVER EXISTING UTILITIES SHALL BE CONSTRUCTED AS INCIDENTAL.
26. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT THE TEMPORARY EROSION ITEMS ARE USED THROUGHOUT THE PROJECT. WHENEVER PRACTICAL, EVEN THOUGH SPECIFIC LOCATIONS FOR THEIR USE MAY NOT BE DESIGNATED DUE TO CONSTRUCTION STAGING.
27. THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING CONSTRUCTION IN A MANNER THAT WILL CONTROL EROSION, SEE THE EROSION CONTROL PLANS FOR SUGGESTED LOCATIONS AND DEVICES TO DO SO.
28. NO EXTRA PAYMENT WILL BE MADE FOR TEMPORARY STOCKPILING OF EXCAVATION, EMBANKMENT AND/OR BORROW MATERIAL.
29. WATER WILL BE REQUIRED FOR DUST CONTROL ON ALL GRAVEL SURFACES.
30. AS PART OF TRAFFIC CONTROL, WHEN CLOSING PATHS OR SIDEWALKS, PROVIDE SIGNAGE FOR USERS. PER THE MN MUTCD.
31. DO NOT BLOCK SIDEWALKS OR PATHS, WHICH REMAIN OPEN, WITH CONSTRUCTION EQUIPMENT OR MATERIALS.
32. PAVING JOINTS ON FINAL LIFT SHALL MATCH PROPOSED LANE LINES.

STAGE 1 -
- START DATE: APRIL, 2022
- COMPLETION DATE: OCTOBER 15, 2022
- CONSTRUCTION UNDER TRAFFIC
- INSTALL WATER MAIN
- FULL SITE RESTORATION

GENERAL NOTES:
- CHANGES TO STAGING PLAN MUST BE APPROVED BY THE ENGINEER BEFORE IMPLEMENTATION.
- MUST ALLOW ACCESS TO ALL BUSINESS WITHIN CONSTRUCTION AREA.
- FLAGGING OPERATIONS ARE REQUIRED FOR ANY WORK WHERE TWO LANES OF TRAFFIC CANNOT BE MAINTAINED AT ALL TIMES.
- COORDINATION IS ANTICIPATED WITH THE NORTHPOINT DEVELOPMENT. CONTRACTOR WILL BE REQUIRED TO COORDINATE ACCESS TO THE SITE AND CONSTRUCTION OF ENTRANCES.
- COORDINATION IS ANTICIPATED WITH THE 100TH STREET, 105TH STREET, & IDEAL AVENUE IMPROVEMENTS PROJECT ANTICIPATED TO START IN APRIL/MAY 2022. CONTRACTOR WILL BE REQUIRED TO COORDINATE ACCESS TO THE SITE, WORK WILL BE OCCURRING ADJACENT TO THIS PROJECT.

NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

PRINT NAME: DAVID R. SANOCKI

SIGNATURE:

DATE: 2/25/2022 LIC. NO. 49973

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STATEMENT OF ESTIMATED QUANTITIES

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

SHEET 4 OF 42

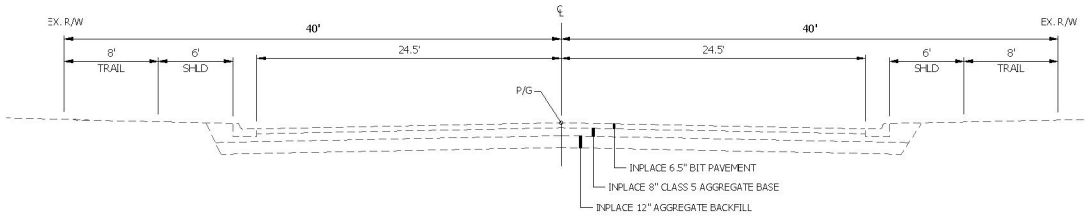
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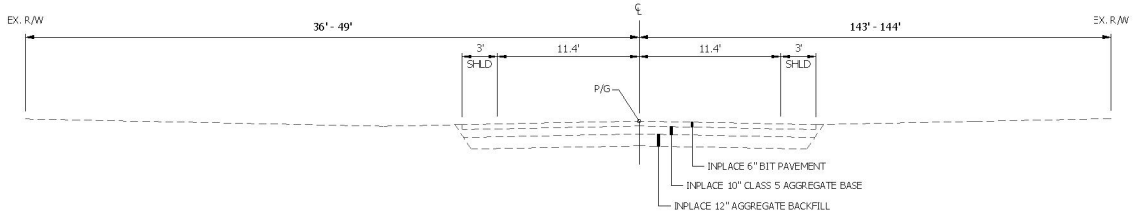
GENERAL NOTES:

TYPICAL SECTIONS ARE NOT TO SCALE

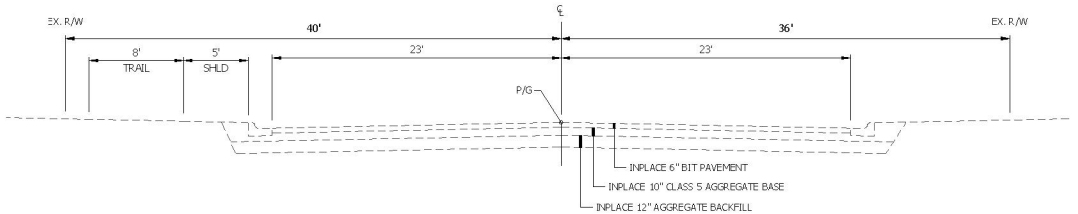
EXISTING PAVEMENT DEPTHS ARE APPROXIMATE. CONSTRUCTION NOTES FOR FURTHER DETAIL.



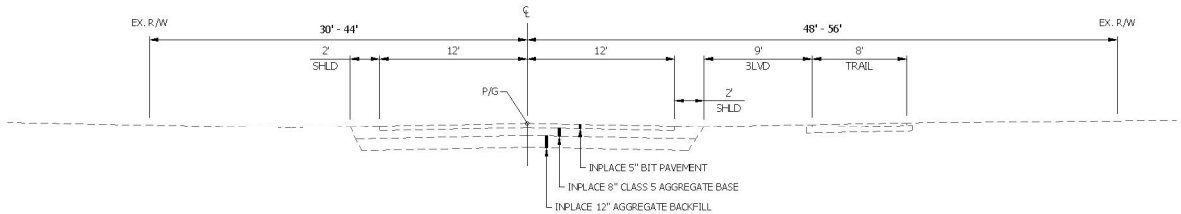
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95TH ST S



2 **EXISTING TYPICAL SECTION**
100TH ST S



3 **EXISTING TYPICAL SECTION**
100TH ST S



4 **EXISTING TYPICAL SECTION**
IDEAL AVE S

NO	DATE	APPR	REVISION

SURVEY	PB.W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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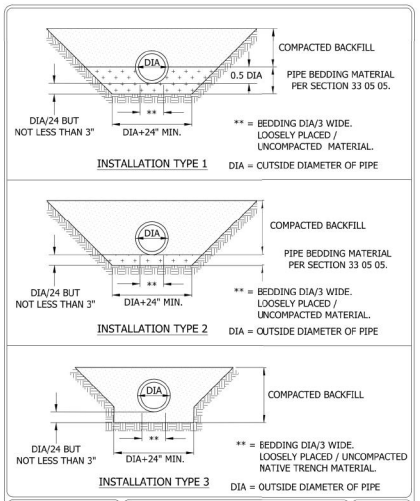
TYPICAL SECTIONS

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

SHEET 5 OF 42

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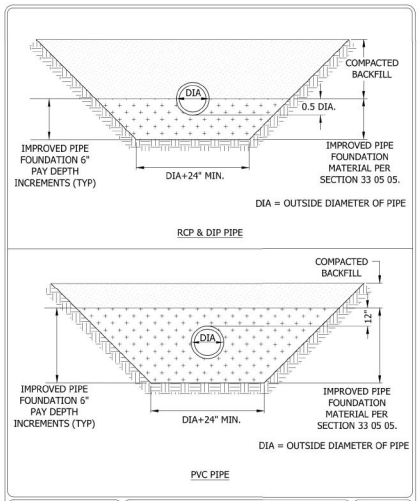
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STANDARD DETAILS	JANUARY 2022
PIPE FOUNDATION & BEDDING METHODS FOR RCP & DIP	
COTTAGE GROVE, MINNESOTA	PLATE NO. BED-2

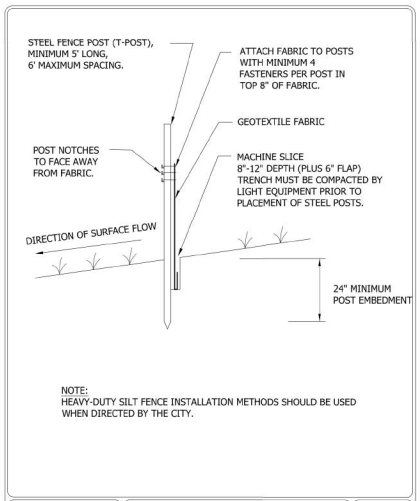
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STANDARD DETAILS	JANUARY 2022
IMPROVED FOUNDATION FOR RCP, DIP, PVC PIPE TRENCH	
COTTAGE GROVE, MINNESOTA	PLATE NO. BED-3

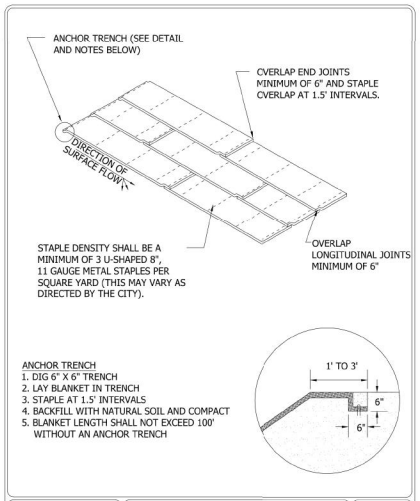
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STANDARD DETAILS	JANUARY 2022
MACHINE SLICED SILT FENCE	
COTTAGE GROVE, MINNESOTA	PLATE NO. ERO-1

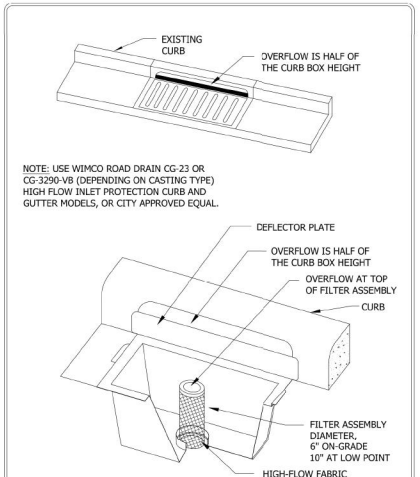
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STANDARD DETAILS	JANUARY 2022
ROLLED EROSION PREVENTION PRODUCTS INSTALLATION	
COTTAGE GROVE, MINNESOTA	PLATE NO. ERO-5

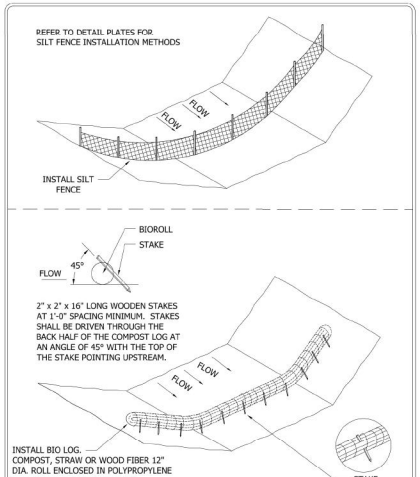
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STANDARD DETAILS	JANUARY 2022
INLET PROTECTION CATCH BASIN INSERT	
COTTAGE GROVE, MINNESOTA	PLATE NO. ERO-9

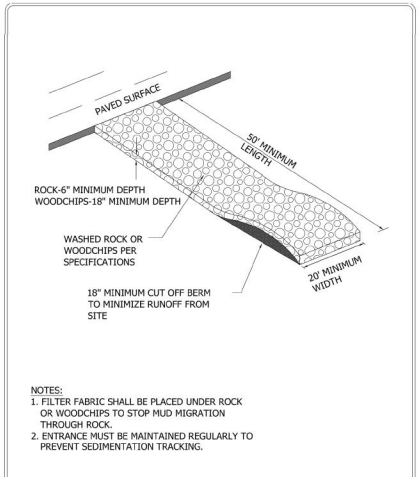
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STANDARD DETAILS	JANUARY 2022
FILTER BERMS	
COTTAGE GROVE, MINNESOTA	PLATE NO. ERO-11

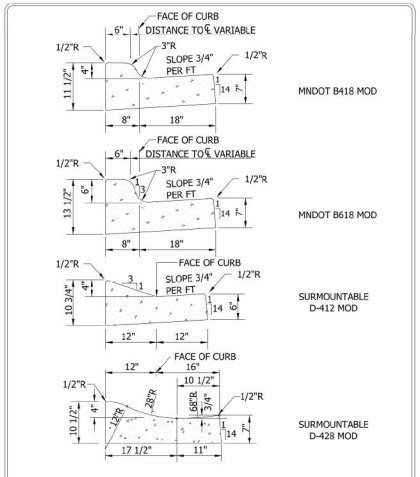
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STANDARD DETAILS	JANUARY 2022
CONSTRUCTION ENTRANCE ROCK AND WOODCHIP	
COTTAGE GROVE, MINNESOTA	PLATE NO. ERO-12

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STANDARD DETAILS	JANUARY 2022
CURB AND GUTTER	
COTTAGE GROVE, MINNESOTA	PLATE NO. STR-10

48_STR10.DWG

NO	DATE	APPR	REVISION

SURVEY	PB.W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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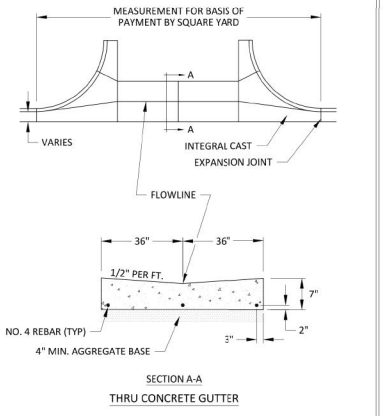
CONSTRUCTION DETAILS
COTTAGE GROVE STANDARD DETAILS

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

SHEET 6 OF 42

Plot Date: 02/25/2022 - 11:18am
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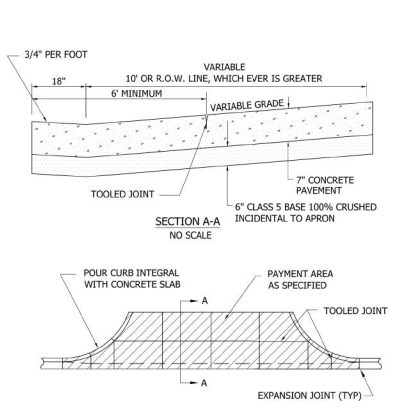
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STANDARD DETAILS	JANUARY 2022
CONCRETE VALLEY GUTTER	PLATE NO. STR-16
COTTAGE GROVE, MINNESOTA	

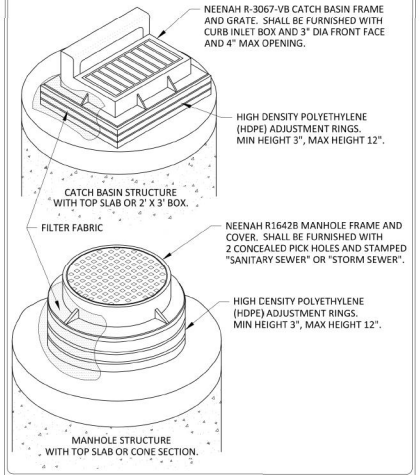
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STANDARD DETAILS	JANUARY 2022
CONCRETE DRIVEWAY APRON COMMERCIAL	PLATE NO. STR-17
COTTAGE GROVE, MINNESOTA	

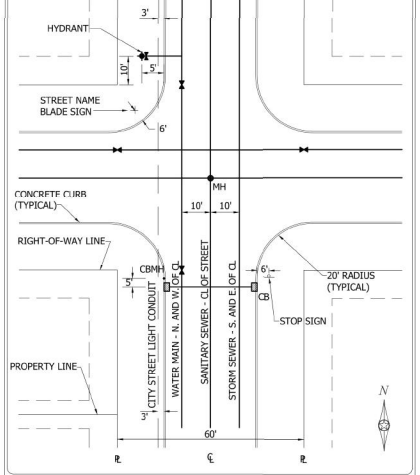
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STANDARD DETAILS	JANUARY 2022
CATCHBASIN AND MANHOLE ADJUSTMENT	PLATE NO. STR-23
COTTAGE GROVE, MINNESOTA	

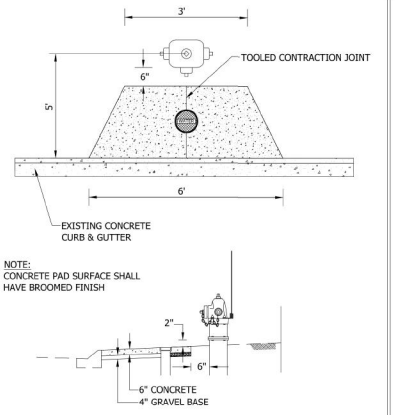
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Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS	JANUARY 2022
TYPICAL UTILITY LOCATIONS	PLATE NO. STR-28
COTTAGE GROVE, MINNESOTA	

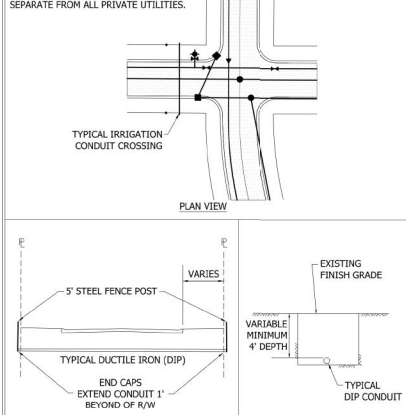
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STANDARD DETAILS	JANUARY 2022
CONCRETE HYDRANT PAD	PLATE NO. STR-37
COTTAGE GROVE, MINNESOTA	

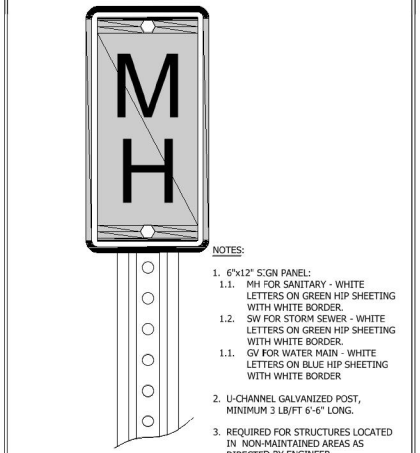
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STANDARD DETAILS	JANUARY 2022
DIP IRRIGATION CONDUIT CROSSING	PLATE NO. STR-38
COTTAGE GROVE, MINNESOTA	

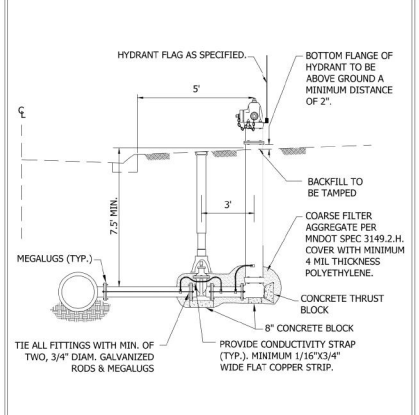
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Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS	JANUARY 2022
STRUCTURE MARKER SIGN	PLATE NO. STR-41
COTTAGE GROVE, MINNESOTA	

48_STR41.DWG



Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS	JANUARY 2022
HYDRANT DETAIL	PLATE NO. WAT-1
COTTAGE GROVE, MINNESOTA	

48_WAT1.DWG

NO	DATE	APPR	REVISION

SURVEY	PB.W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
PRINT NAME: DAVID R. SANOCKI
SIGNATURE:
DATE: 2/25/2022 LIC. NO. 49973

Cottage Grove — Where Pride and Prosperity Meet

Stantec
733 Marquette Ave Suite 1000
Minneapolis, MN 55402-2309
www.stantec.com

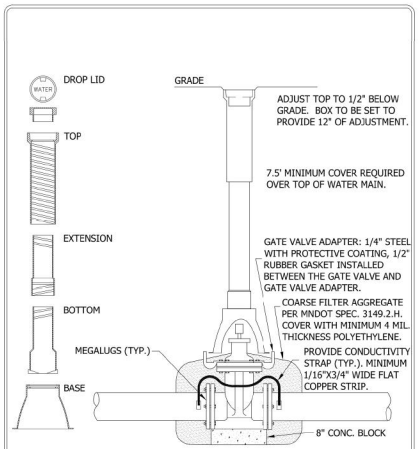
CONSTRUCTION DETAILS
COTTAGE GROVE STANDARD DETAILS

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

SHEET 7 OF 42

Plot Date: 02/25/2022 - 11:10am
Drawing name: I:\1938\05\466\CAD\Dwg\Plan Sheets\193805466_C006.dwg
Xrefs: 193805466_STYLE.ctb

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC IMMEDIATELY. THE CONTRACTOR IS TO ASSUME ANY AND ALL RISK ASSOCIATED WITH CONSTRUCTION TO THESE DRAWINGS AND SHALL ASSUME ALL RESPONSIBILITY FOR ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS. STANTEC SHALL BE HELD HARMLESS FOR ANY AND ALL CHANGES MADE TO THESE DRAWINGS WITHOUT THE WRITTEN CONSENT OF STANTEC.

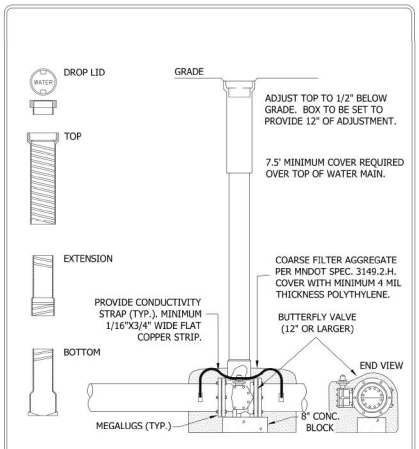


Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
GATE VALVE AND BOX INSTALLATION
COTTAGE GROVE, MINNESOTA

JANUARY 2022
PLATE NO. WAT-3

4B_WAT3.DWG



Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
BUTTERFLY VALVE AND BOX INSTALLATION
COTTAGE GROVE, MINNESOTA

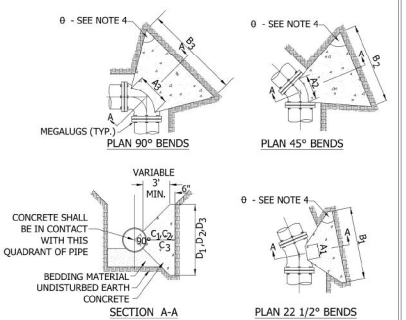
JANUARY 2022
PLATE NO. WAT-4

4B_WAT4.DWG

NOTES:
1. SHAPE OF BACK OF BUTTRESS MAY VARY AS LONG AS POURED AGAINST FIRM UNDISTURBED EARTH.
2. DIMENSION C1,C2,C3 SHOULD BE LARGE ENOUGH TO MAKE ANGLE θ EQUAL TO OR LARGER THAN 45°.
3. DIMENSION A1,A2,A3 SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH MJ BOLTS.
4. θ = 45° MINIMUM.
5. PLACE POLYETHYLENE BETWEEN CONCRETE & PIPE.

BUTTRESS DIMENSIONS

PIPE SIZE	22 1/2° BEND B1	22 1/2° BEND D1	45° BEND B2	45° BEND D2	90° BEND B3	90° BEND D3
6"	--	--	--	--	2'-1"	1'-6"
8"	--	--	--	--	2'-8"	2'-0"
12"	1'-10"	1'-10"	3'-4"	2'-0"	4'-0"	2'-6"
16"	3'-0"	2'-0"	3'-10"	3'-0"	6'-2"	3'-6"
20"	3'-6"	2'-8"	5'-6'	3'-4"	8'-4"	4'-0"
24"	4'-4"	3'-0"	6'-10"	3'-10"	9'-8"	5'-0"
30"	--	--	9'-3"	6'-0"	17'-0"	6'-0"

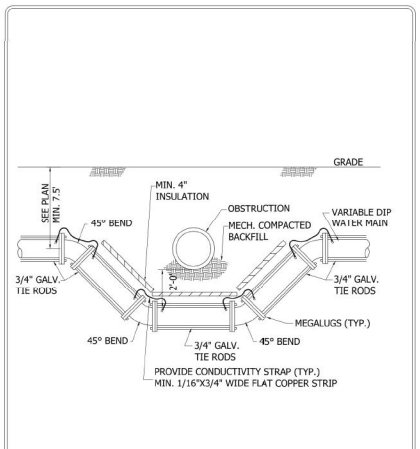


Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
CONCRETE THRUST BLOCKING
COTTAGE GROVE, MINNESOTA

JANUARY 2022
PLATE NO. WAT-6

4B_WAT6.DWG

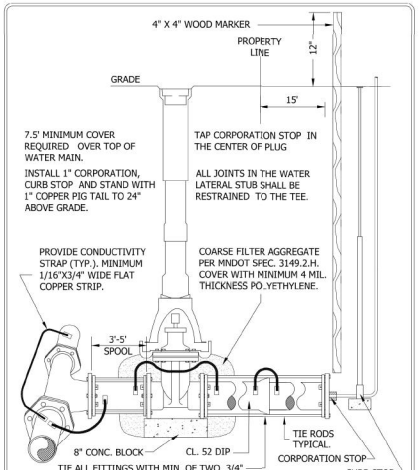


Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
WATER MAIN OFFSET
COTTAGE GROVE, MINNESOTA

JANUARY 2022
PLATE NO. WAT-7

4B_WAT7.DWG

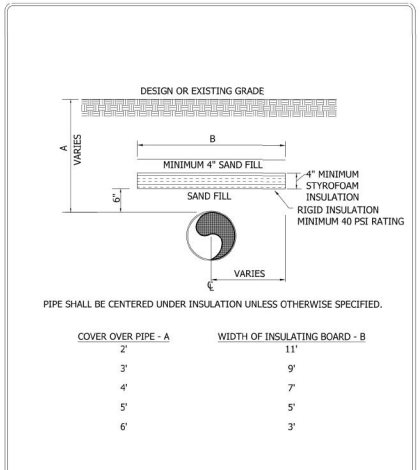


Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
DIP SERVICE OR DEAD END LINE
COTTAGE GROVE, MINNESOTA

JANUARY 2022
PLATE NO. WAT-8

4B_WAT8.DWG



PIPE SHALL BE CENTERED UNDER INSULATION UNLESS OTHERWISE SPECIFIED.

COVER OVER PIPE - A	WIDTH OF INSULATING BOARD - B
2'	11'
3'	9'
4'	7'
5'	5'
6'	3'

Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
INSULATION DETAIL
COTTAGE GROVE, MINNESOTA

JANUARY 2022
PLATE NO. WAT-9

4B_WAT9.DWG

NO	DATE	APPR	REVISION

SURVEY	FB:W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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DATE: 2/25/2022 LIC. NO. 49973

Cottage Grove — Where Pride and Prosperity Meet

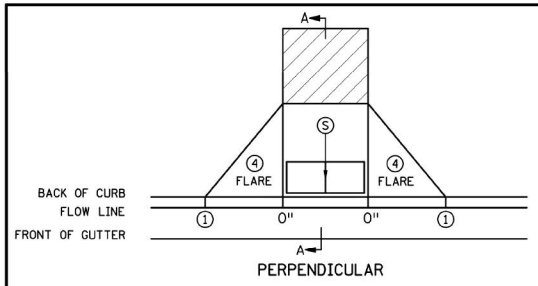
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CONSTRUCTION DETAILS
COTTAGE GROVE STANDARD DETAILS

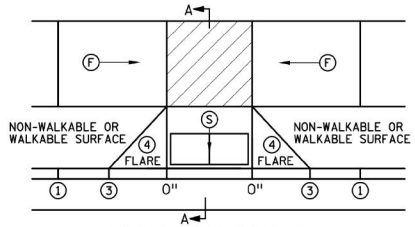
CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

SHEET 8 OF 42

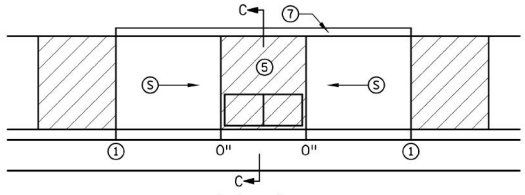
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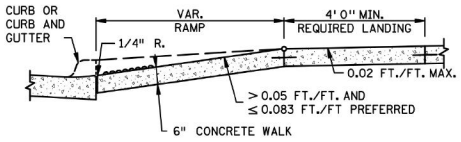
PERPENDICULAR



TIERED PERPENDICULAR

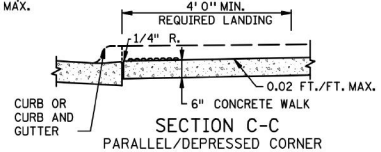


PARALLEL



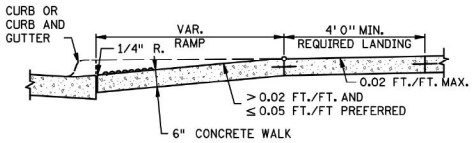
SECTION A-A

PERPENDICULAR/TIERED/DIAGONAL



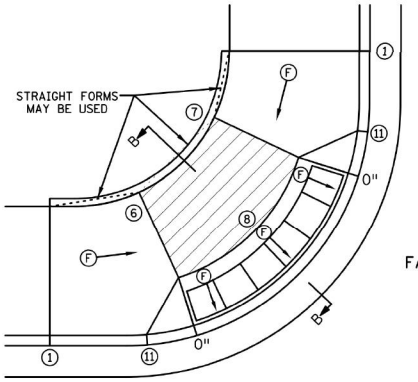
SECTION C-C

PARALLEL/DEPRESSED CORNER

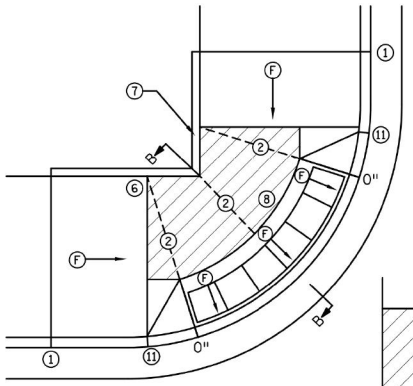


SECTION B-B

FAN

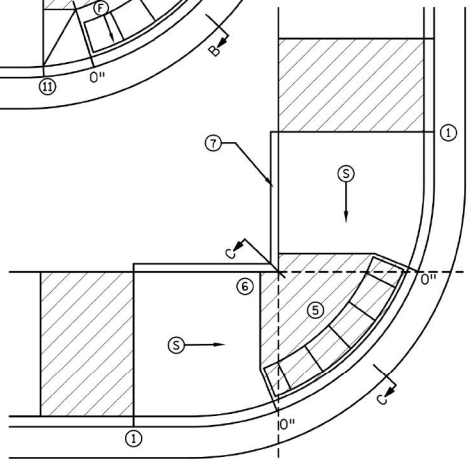


FAN⑩

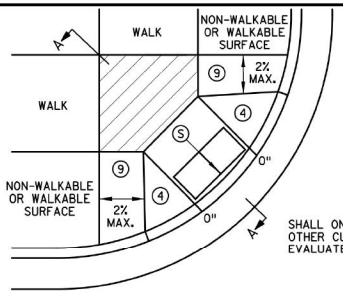


MODIFIED FAN ⑩

USED WHEN RIGHT-OF-WAY IS CONSTRAINED



DEPRESSED CORNER



DIAGONAL

SHALL ONLY BE USED AFTER ALL OTHER CURB RAMP TYPES HAVE BEEN EVALUATED AND DEEMED IMPRACTICAL

NOTES:

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE GREATER THAN 2%.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY APPLICABLE WHEN THE INITIAL RAMP RUNNING SLOPE IS OVER 5.0%.

SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL RUNNING SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR. 1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOPS OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES.

ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL, THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH. (EXCEPT AS STATED IN ⑥ BELOW.

TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONSTRUCTED, ALL INITIAL LANDINGS AT A TOP OF A RAMPED SURFACE (RUNNING SLOPE GREATER THAN 2%) SHALL BE FORMED AND PLACED SEPARATELY IN AN INDEPENDENT CONCRETE POUR. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 OF 6 FOR ALL SEPARATELY POURED INITIAL LANDINGS.

WHEN SIDEWALK IS AT BACK OF CURB, TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.

MAINTAIN POSITIVE BOULEVARD DRAINAGE TO TOP OF CURB.

ALL RAMP TYPES SHOULD HAVE A MINIMUM 3' LONG RAMP LENGTH.

4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN. OF 24" IN THE PATH OF TRAVEL. DETECTABLE WARNING TO COVER THE ENTIRE PAR WIDTH OF SHARED-USE PATHS AND THE ENTIRE PAR WIDTH OF THE WALK WITH THE EXCEPTION OF 3" MAXIMUM ON EACH OUTSIDE EDGE WHICH ENSURES THE DETECTABLE WARNINGS ARE ENCASED IN CONCRETE WHEN ADJACENT TO TURF. WHEN ADJACENT TO CONCRETE FLARES 0" - 3" OFFSET IS ALLOWED.

WHEN DESIGNING OR ORDERING RECTANGULAR DETECTABLE WARNING SURFACES SHOULD BE 6" LESS THAN THE INCOMING PAR. ARC LENGTH OF THE RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN 20 FEET.

RECTANGULAR DETECTABLE WARNINGS SHALL BE SETBACK 3" FROM THE BACK OF CURB. RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB.

① MATCH FULL HEIGHT CURB.

② 4' MINIMUM DEPTH LANDING REQUIRED ACROSS TOP OF RAMP.

③ 3" HIGH CURB WHEN USING A 3' LONG RAMP, 4" HIGH CURB WHEN USING A 4' LONG RAMP.

④ SEE SHEET 4 OF 6, TYPICAL SIDE TREATMENT OPTIONS, FOR DETAILS ON FLARES AND RETURNED CURBS.

⑤ DETECTABLE WARNINGS MAY BE PART OF THE 4' X 4' MIN. LANDING AREA IF IT IS NOT FEASIBLE TO CONSTRUCT THE LANDING OUTSIDE OF THE DETECTABLE WARNING AREA.

⑥ THE GRADE BREAK SHALL BE PERPENDICULAR TO THE BACK OF WALK. THIS WILL ENSURE THAT THE GRADE BREAK IS PERPENDICULAR TO THE DIRECTION OF TRAVEL. (TYPICAL FOR ALL)

⑦ WHEN ADJACENT TO GRASS, GRADING SHALL ALWAYS BE USED WHEN FEASIBLE. V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. WHEN ADJACENT TO PARKING LOTS, CONCRETE OR BITUMINOUS TAPERS LESS THAN 5% RUNNING SLOPE SHOULD BE USED OVER V CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOVAL.

⑧ A 7' MIN TOP RADIUS GRADE BREAK IS REQUIRED TO BE CONSTRUCTIBLE.

⑨ PAVE FULL WALK WIDTH.

⑩ "S" SLOPES ON FANS SHALL ONLY BE USED WHEN ALL OTHER FEASIBLE OPTIONS HAVE BEEN EVALUATED AND DEEMED IMPRACTICAL.

⑪ INTERMEDIATE CURB HEIGHTS TAPER SHALL RISE AT 8-10% TO A MINIMUM 3" CURB HEIGHT. REDUCE INTERMEDIATE CURB HEIGHT TO 2+ INCHES IF NECESSARY TO MATCH ADJACENT BOULEVARD OR SIDEWALK GRADES.

LEGEND

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

(S) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.

(F) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.

LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.

X" CURB HEIGHT

REVISION:

APPROVED: 11-04-2021

JEFFREY PERKINS
OPERATIONS DIVISION

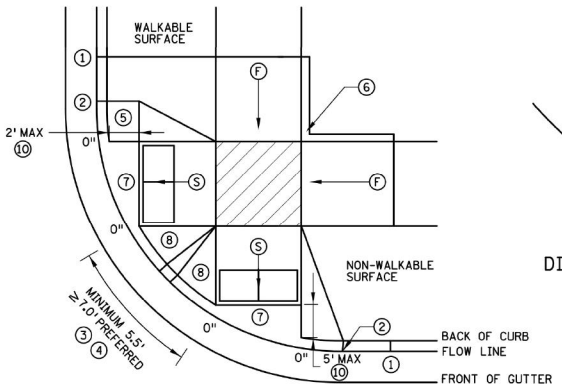
MINNESOTA DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.250 | 1 OF 6

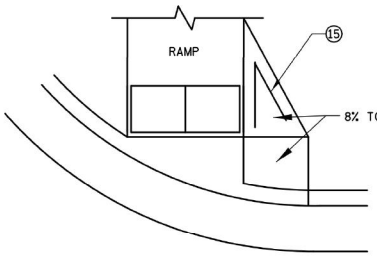
APPROVED: 11-04-2021
REVISED:

THOMAS STYRBICKI
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

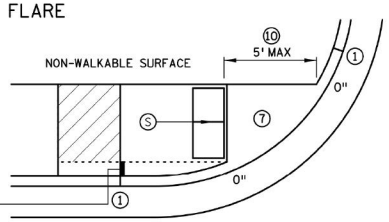


COMBINED DIRECTIONAL

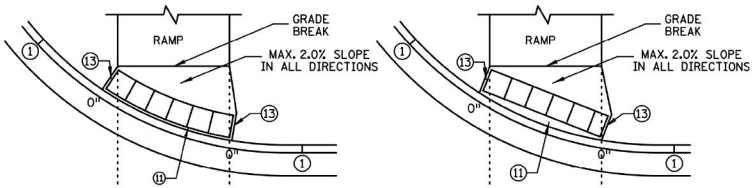


DIRECTIONAL RAMP WALKABLE FLARE

IF NON-CONCRETE BLVD. IS CONSTRUCTED AND IS LESS THAN 2' IN WIDTH AT TOP OF CURB TRANSITION, PAVE CONCRETE RAMP WIDTH TO ADJACENT BACK OF CURB.

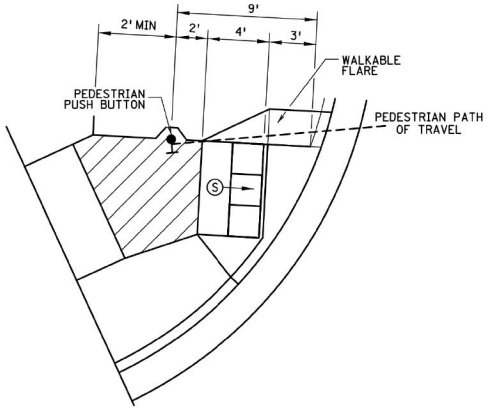


STANDARD ONE-WAY DIRECTIONAL ⑨



DETECTABLE WARNING PLACEMENT WHEN SETBACK CRITERIA IS EXCEEDED ⑫

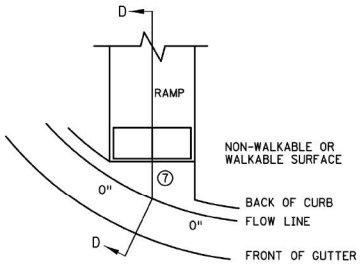
ONE-WAY DIRECTIONAL WITH DETECTABLE WARNING AT BACK OF CURB

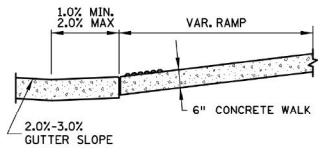


SEMI-DIRECTIONAL RAMP ③④⑨

3' DOME SETBACK, 4' LONG RAMP AND PUSH BUTTON 9' FROM THE BACK OF CURB

PRIMARILY USED FOR APS APPLICATIONS WHERE THE PAR DOES NOT CONTINUE PAST THE PUSH BUTTON (DEAD-END SIDEWALK)





SECTION D-D

CURB FOR DIRECTIONAL RAMPS ⑭

NOTES:

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY APPLICABLE WHEN THE INITIAL RAMP RUNNING SLOPE IS OVER 5.0%.

SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR. 1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOP GRADE BREAK OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES.

ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL. THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH.

TO ENSURE INITIAL RAMPS AND INITIAL LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS SHALL BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 AND THE ADA SPECIAL PROVISION (PROSECUTION OF WORK).

TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.

WHEN THE BOULEVARD IS 4' WIDE OR LESS, THE TOP OF CURB TAPER SHALL MATCH THE RAMP SLOPES TO REDUCE NEGATIVE BOULEVARD SLOPES FROM THE TOP BACK OF CURB TO THE PAR.

ALL RAMP TYPES SHOULD HAVE A MINIMUM 3' LONG RAMP LENGTH.

4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN. OF 24" IN THE PATH OF TRAVEL. DETECTABLE WARNING TO COVER THE ENTIRE PAR WIDTH OF SHARED-USE PATHS AND THE ENTIRE PAR WIDTH OF THE WALK WITH THE EXCEPTION OF 3" MAXIMUM ON EACH OUTSIDE EDGE WHICH ENSURES THE DETECTABLE WARNINGS ARE ENCASED IN CONCRETE WHEN ADJACENT TO TURF. WHEN ADJACENT TO CONCRETE FLARES 0" - 3" OFFSET IS ALLOWED.

WHEN DESIGNING OR ORDERING RECTANGULAR DETECTABLE WARNING SURFACES SHOULD BE 6" LESS THAN THE INCOMING PAR. ARC LENGTH OF THE RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN 20 FEET.

RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB. SEE NOTES ⑩ & ⑪ FOR INFORMATION REGARDING RECTANGULAR DETECTABLE WARNING PLACEMENT.

① MATCH FULL CURB HEIGHT.

② 3" HIGH CURB WHEN USING A 3' LONG RAMP
4" HIGH CURB WHEN USING A 4' LONG RAMP.

③ 3" MINIMUM CURB HEIGHT (5.5' MIN. DISTANCE REQUIRED BETWEEN DOMES)
4" PREFERRED (7' MIN. DISTANCE REQUIRED BETWEEN DOMES).

④ THE "BUMP" IN BETWEEN THE RAMPS SHOULD NOT BE IN THE PATH OF TRAVEL FOR COMBINED DIRECTIONAL RAMPS. IF THIS OCCURS MODIFY THE RAMP LOCATION OR SWITCH RAMP TO A FAN/DEPRESSED CORNER.

⑤ WHEN USING CONCRETE PAVED FLARES ON THE OUTSIDE OF DIRECTIONAL RAMPS, AND ADJACENT TO A WALKABLE SURFACE, DIRECTIONAL RAMP FLARES SHALL BE USED. SEE THE DETAIL ON THIS SHEET.

⑥ GRADING SHALL ALWAYS BE USED WHEN FEASIBLE. V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. WHEN ADJACENT TO PARKING LOTS, CONCRETE OR BITUMINOUS TAPERS SHOULD BE USED OVER V CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOVAL.

⑦ MAX. 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK AND DRAIN TO FLOW LINE. SHALL BE CONSTRUCTED INTEGRAL WITH CURB AND GUTTER.

⑧ 8% TO 10% WALKABLE FLARE.

⑨ PLACE DOMES AT THE BACK OF CURB WHEN ALLOWABLE SETBACK CRITERIA IS EXCEEDED.

⑩ FRONT EDGE OF DETECTABLE WARNING SHALL BE SET BACK 2' MAXIMUM WHEN ADJACENT TO WALKABLE SURFACE, AND 5' MAXIMUM WHEN ADJACENT TO NON-WALKABLE SURFACE WITH ONE CORNER SET 3" FROM BACK OF CURB. A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.

⑪ RECTANGULAR DETECTABLE WARNINGS MAY BE SETBACK UP TO 9" FROM THE BACK OF CURB WITH CORNERS SET 3" FROM BACK OF CURB. IF 9" SETBACK IS EXCEEDED USE RADIAL DETECTABLE WARNINGS.

⑫ FOR DIRECTIONAL RAMPS WITH THE DETECTABLE WARNINGS PLACED AT THE BACK OF CURB, THE DETECTABLE WARNINGS SHALL COVER THE ENTIRE WIDTH OF THE WALK/PATH. THIS ENSURES A DETECTABLE EDGE AND HELPS ELIMINATE THE CURB TAPER OBSTRUCTING THE PATH OF PEDESTRIAN TRAVEL.

⑬ THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE BACK OF CURB. MAINTAIN 3" BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.

⑭ TO BE USED FOR ALL DIRECTIONAL RAMPS, EXCEPT WHERE DOMES ARE PLACED ALONG THE BACK OF CURB.

⑮ PLACE 2 NO. 4 BARS 4 INCHES FROM SIDE OF FORMS WITH A MINIMUM 2 INCHES OF CONCRETE COVER ALONG EACH SIDE OF FLARE (INCIDENTAL).

LEGEND

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

(S) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.

(F) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.

LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.

X" CURB HEIGHT

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OPERATIONS DIVISION

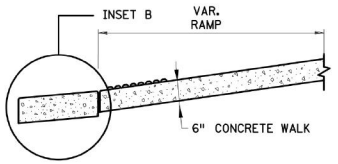
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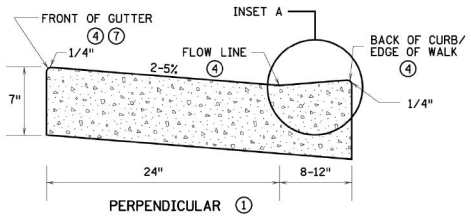
STANDARD PLAN 5-297.250 | 2 OF 6

APPROVED: 11-04-2021
REVISED:

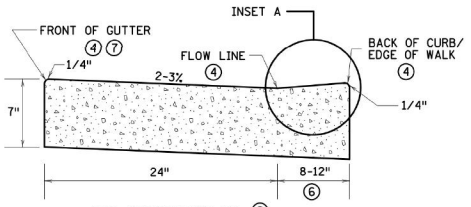
THOMAS STYRBICKI
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS



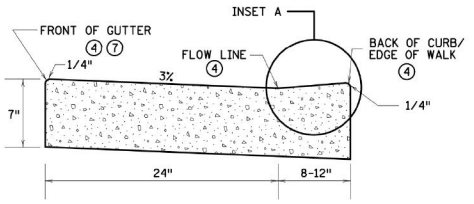


PERPENDICULAR ①

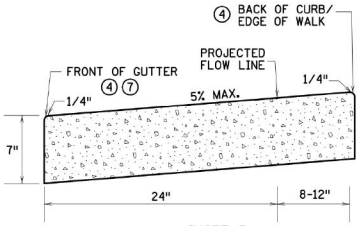


NON PERPENDICULAR ②

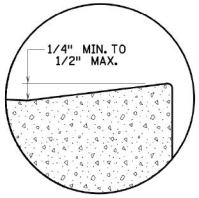
PEDESTRIAN ACCESS ROUTE CURB & GUTTER DETAIL



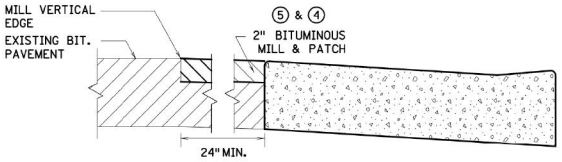
FOR CURB MACHINE PLACEMENT AROUND RADIUS ③
(REGARDLESS OF RAMP TYPE)

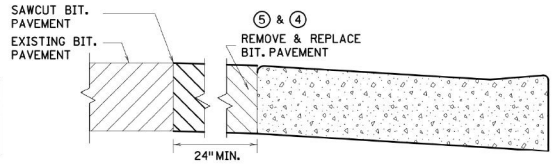


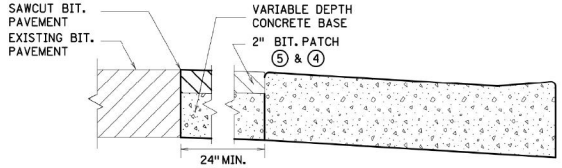
INSET B
OUTFLOW GUTTER ⑧

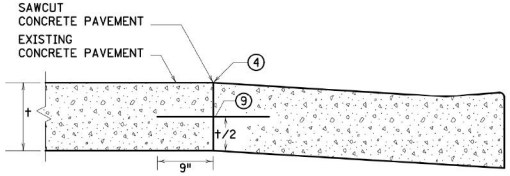


INSET A



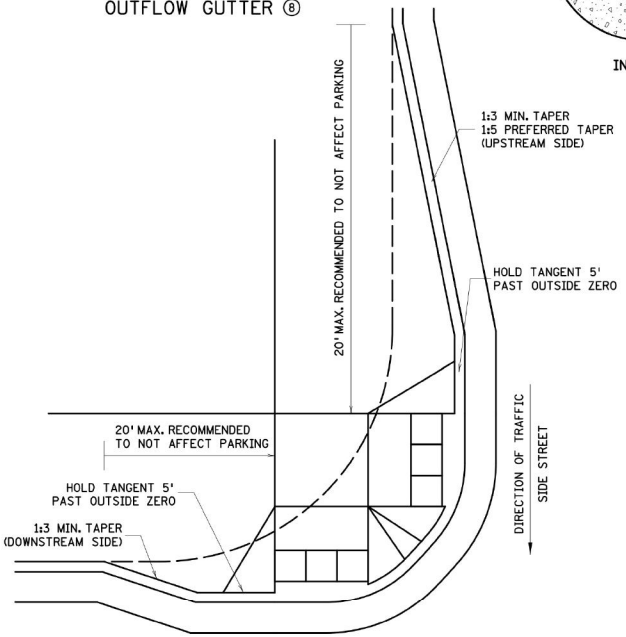




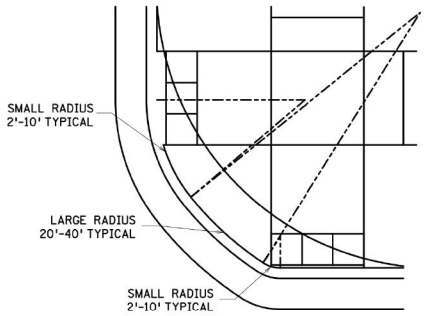


ONLY ALLOWED PER ENGINEER'S APPROVAL

PAVEMENT TREATMENT OPTIONS IN FRONT OF CURB & GUTTER
FOR USE ON CURB RAMP RETROFITS



ADA CURB EXTENSION WITH COMPOUND RADIUS (BUMP OUT) ⑪



COMBINED DIRECTIONAL ⑩
(COMPOUND RADIUS)

NOTES:

POSITIVE FLOW LINE DRAINAGE SHALL BE MAINTAINED THROUGH THE PEDESTRIAN ACCESS ROUTE (PAR) AT A 2% MAXIMUM.

NO PONDING SHALL BE PRESENT IN THE PAR.

ANY VERTICAL LIP THAT OCCURS AT THE FLOW LINE SHALL NOT BE GREATER THAN 1/4 INCH.

① FOR USE AT CURB CUTS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: PERPENDICULAR, TIERED PERPENDICULAR, PARALLEL, AND DIAGONAL RAMPS.

② FOR USE AT CURB RAMPS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED NON PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: FANS & DEPRESSED CORNERS.

③ BEGIN GUTTER SLOPE TRANSITION 10' OUTSIDE OF ALL CURB RAMPS.

④ THERE SHALL BE NO VERTICAL DISCONTINUITIES GREATER THAN 1/4".

⑤ ELEVATION CHANGE TAKES PLACE FROM THE EXISTING TO NEW FRONT OF GUTTER. PATCH IS USED TO MATCH THE NEW GUTTER FACE INTO THE EXISTING ROADWAY.

⑥ VARIABLE WIDTH FOR DIRECTIONAL CURB APPLICATIONS. SEE SHEET 2 FOR DIRECTIONAL CURB SLOPE REQUIREMENTS.

⑦ TOP FRONT OF GUTTER SHALL BE CONSTRUCTED FLUSH WITH PROPOSED ADJACENT PAVEMENT ELEVATION. TOP 1.5" OF THE GUTTER FACE MUST BE A FORMED EDGE. PAR GUTTER SHALL NOT BE OVERLAID.

⑧ SHOULD BE USED AT VERTICALLY CONSTRAINED AREAS WHEN AT A DRAINAGE HIGH POINT OR SUPER ELEVATED ROADWAY SEGMENTS.

⑨ DRILL AND GROUT NO. 4 EPOXY-COATED 18" LONG TIE BARS AT 30" CENTER TO CENTER INTO EXISTING CONCRETE PAVEMENT 1' MINIMUM FROM ALL JOINTS.

⑩ HELPS PROVIDE TWO SEPARATE RAMPS, REDUCES THE DOME SETBACK LENGTH AND MINIMIZES DIRECTIONAL CURB. THIS RADIUS DESIGN CLOSELY FOLLOWS THE TURNING VEHICLE PATH WHILE OPTIMIZING CURB RAMP LENGTH.

⑪ CURB EXTENSIONS SHOULD BE USED IN VERTICALLY CONSTRAINED AREAS, USUALLY IN DOWNTOWN ROADWAY SEGMENTS WHERE ON-STREET PARKING IS AVAILABLE. CURB EXTENSIONS SHOULD BE CONSIDERED FOR APS INTERSECTIONS WHERE SPACE IS LIMITED. PUSH BUTTONS MUST MEET APS CRITERIA AS DESCRIBED IN THE PUSH BUTTON LOCATION DETAIL SHEET.

REVISION:

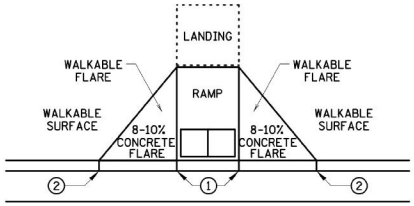
APPROVED: 11-04-2021
JEFFREY PERKINS
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION

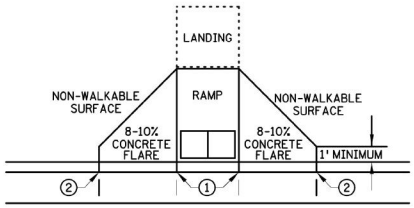
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APPROVED: 11-04-2021
REVISED:
THOMAS STYRBICKI
STATE DESIGN ENGINEER

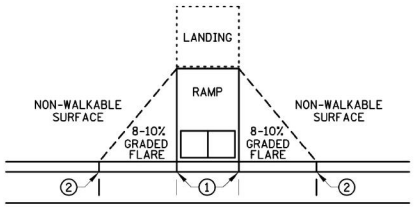
PEDESTRIAN CURB RAMP DETAILS



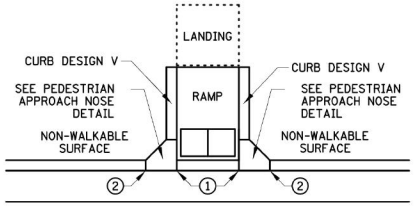
PAVED FLARES
ADJACENT TO WALKABLE SURFACE



PAVED FLARES
ADJACENT TO NON-WALKABLE SURFACE

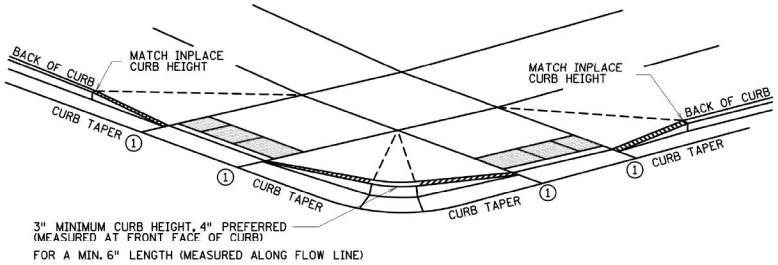


GRADED FLARES

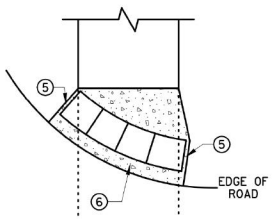


RETURNED CURB ④

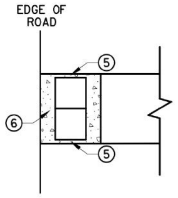
TYPICAL SIDE TREATMENT OPTIONS ③ ⑩



DETECTABLE EDGE WITH ⑦
CURB AND GUTTER

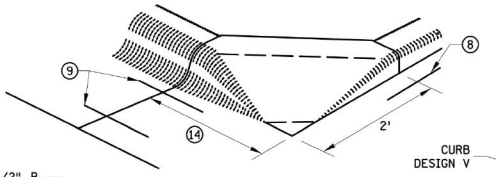


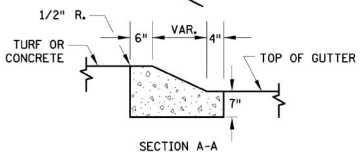
RADIAL DETECTABLE WARNING



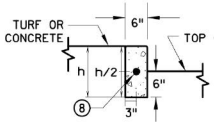
RECTANGULAR DETECTABLE WARNING

DETECTABLE EDGE WITHOUT CURB AND GUTTER

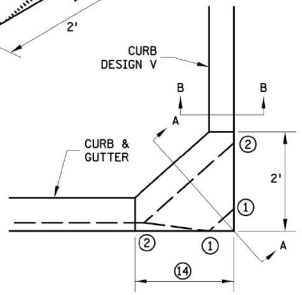




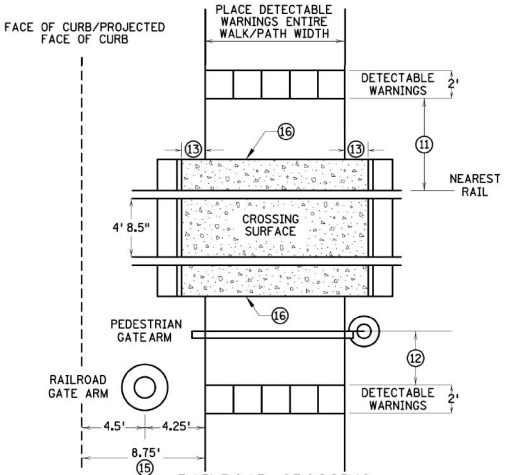
SECTION A-A



SECTION B-B



PEDESTRIAN APPROACH
NOSE DETAIL
(FOR RETURNED CURB
SIDE TREATMENT)



RAILROAD CROSSING
PLAN VIEW

NOTES:

INTERMEDIATE CURB HEIGHTS TAPER SHALL RISE AT 8-10% TO A MINIMUM 3 INCH CURB HEIGHT. INCREASE CURB TAPER LENGTH AT LESS THAN 8% OR REDUCE INTERMEDIATE CURB HEIGHT TO 2+ INCHES IF NECESSARY TO MATCH ADJACENT BOULEVARD OR SIDEWALK GRADES.

SEE STANDARD PLATE 7038 AND THIS SHEET FOR ADDITIONAL DETAILS ON DETECTABLE WARNING.

A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.

CONCRETE FLARE LENGTHS ADJACENT TO NON-WALKABLE SURFACES SHOULD BE LESS THAN 8' LONG MEASURED ALONG THE RAMPS FROM THE BACK OF CURB.

① 0" CURB HEIGHT. SEE INSET A ON SHEET 3 OF 6.

② FULL CURB HEIGHT.

③ SIDE TREATMENTS ARE APPLICABLE TO ALL RAMP TYPES AND SHOULD BE IMPLEMENTED AS NEEDED AS FIELD CONDITIONS DICTATE. THE ENGINEER SHALL DETERMINE THE RAMP SIDE TREATMENTS BASED ON MAINTENANCE OF BOTH ROADWAY AND SIDEWALK, ADJACENT PROPERTY CONSIDERATIONS, AND MITIGATING CONSTRUCTION IMPACTS.

④ TYPICALLY USED FOR MEDIANS AND ISLANDS.

⑤ WHEN NO CONCRETE FLARES ARE PROPOSED, THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE EDGE OF ROADWAY. MAINTAIN 3" MAX. BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.

⑥ IF NO CURB AND GUTTER IS PLACED IN RURAL SECTIONS, DETECTABLE WARNINGS SHALL BE PLACED 1' FROM THE EDGE OF BITUMINOUS ROADWAY AND/OR BITUMINOUS SHARED-USE PATH TO PROVIDE VISUAL CONTRAST.

⑦ ALL CONSTRUCTED CURBS MUST HAVE A CONTINUOUS DETECTABLE EDGE FOR THE VISUALLY IMPAIRED. THIS DETECTABLE EDGE REQUIRES DETECTABLE WARNINGS WHEREVER THERE IS ZERO-INCH HIGH CURB. CURB TAPERS ARE CONSIDERED A DETECTABLE EDGE WHEN THE TAPER STARTS WITHIN 3" OF THE EDGE OF THE DETECTABLE WARNINGS. AND UNIFORMLY RISES TO A 3-INCH MINIMUM CURB HEIGHT. ANY CURB NOT PART OF A CURB TAPER AND LESS THAN 3 INCHES IN HEIGHT IS NOT CONSIDERED A DETECTABLE EDGE AND THEREFORE IS NOT COMPLIANT WITH ACCESSIBILITY STANDARDS.

⑧ DRILL AND GROUT 1 - NO. 4 12" LONG REINFORCEMENT BAR (EPOXY COATED) WITH 3" MIN. COVER. REINFORCEMENT BARS ARE NOT NEEDED IF THE APPROACH NOSE IS POURED INTEGRAL WITH THE V CURB.

⑨ DRILL AND GROUT 2 - NO. 4 12" LONG REINFORCEMENT BARS (EPOXY COATED) WITH 3" MIN. COVER. REINFORCEMENT BARS ARE NOT NEEDED IF THE APPROACH NOSE IS POURED INTEGRAL WITH THE CURB AND GUTTER.

⑩ SIDE TREATMENT EXAMPLES SHOWN ARE WHEN THE INITIAL LANDING IS APPROXIMATELY LEVEL WITH THE FULL HEIGHT CURB (I.E. 6' LONG RAMP FOR 6" HIGH CURB). WHEN THE INITIAL LANDING IS MORE THAN 1" BELOW FULL HEIGHT CURB REFER TO SHEETS 1 & 2 TO MODIFY THE CURB HEIGHT TAPERS AND MAINTAIN POSITIVE BOULEVARD DRAINAGE. CONSTRUCT THESE TAPERS AT 0"-3" AT 8-10%, THEN LESS THAN 5% FROM 3" CURB TO FULL CURB HEIGHT.

⑪ NEAREST EDGE OF DETECTABLE WARNING SURFACES SHALL BE PLACED 12' MINIMUM TO 15' MAXIMUM FROM THE NEAREST RAIL. FOR SKEWED RAILWAYS IN NO INSTANCE SHALL THE DETECTABLE WARNING BE CLOSER THAN 12' MEASURED PERPENDICULAR TO THE NEAREST RAIL.

⑫ WHEN PEDESTRIAN GATES ARE PROVIDED, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE SIDE OF THE GATES OPPOSITE THE RAIL, 2' FROM THE APPROACHING SIDE OF THE GATE ARM. THIS CRITERIA GOVERNS OVER NOTE ⑪.

⑬ CROSSING SURFACE SHALL EXTEND 2' MINIMUM PAST THE OUTSIDE EDGE OF WALK OR SHARED-USE PATH.

⑭ 3' FOR MEDIANS AND SPLITTER ISLANDS. NOSE CAN BE REDUCED TO 2' ON FREE RIGHT ISLANDS.

⑮ SIDEWALK TO BE PLACED 8.75' MIN. FROM THE FACE OF CURB/PROJECTED FACE OF CURB. THIS ENSURES MIN. CLEARANCE BETWEEN THE SIDEWALK AND GATE ARM COUNTERWEIGHT SUPPORTS.

⑯ CONSTRUCT WITH EXPANSION MATERIAL PER MNDOT SPECIFICATION 3702 TYPES A-E. EXPANSION MATERIAL SHALL MATCH FULL HEIGHT OF ADJACENT CONCRETE.

REVISION:

APPROVED: 11-04-2021
JEFFREY PERKINS
OPERATIONS DIVISION

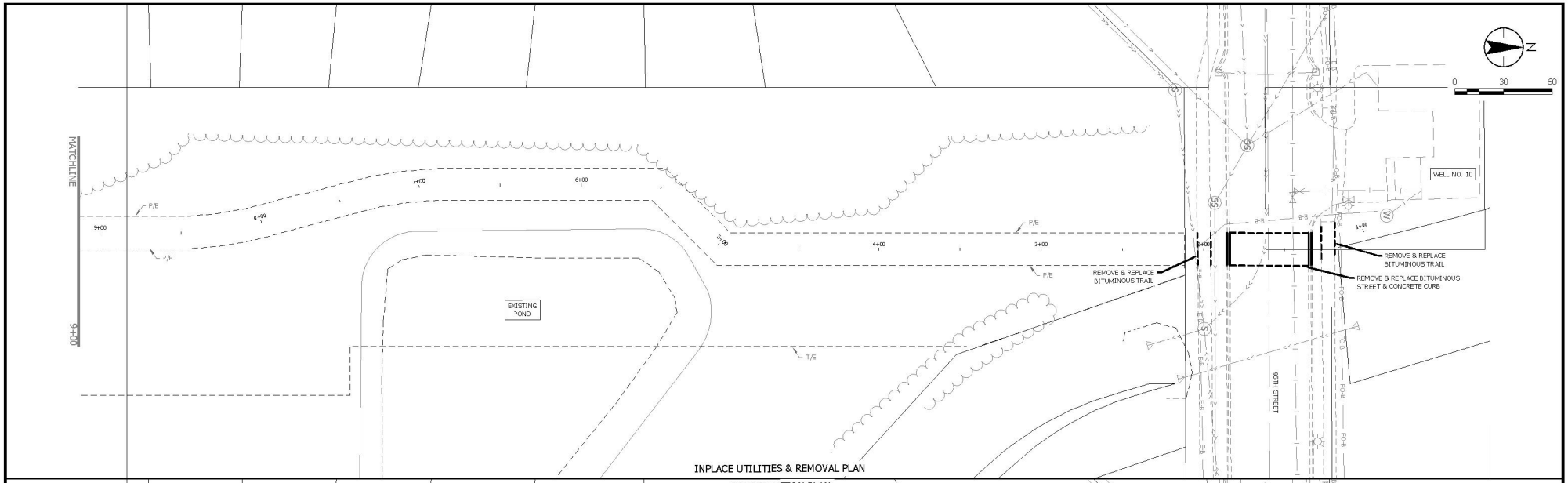
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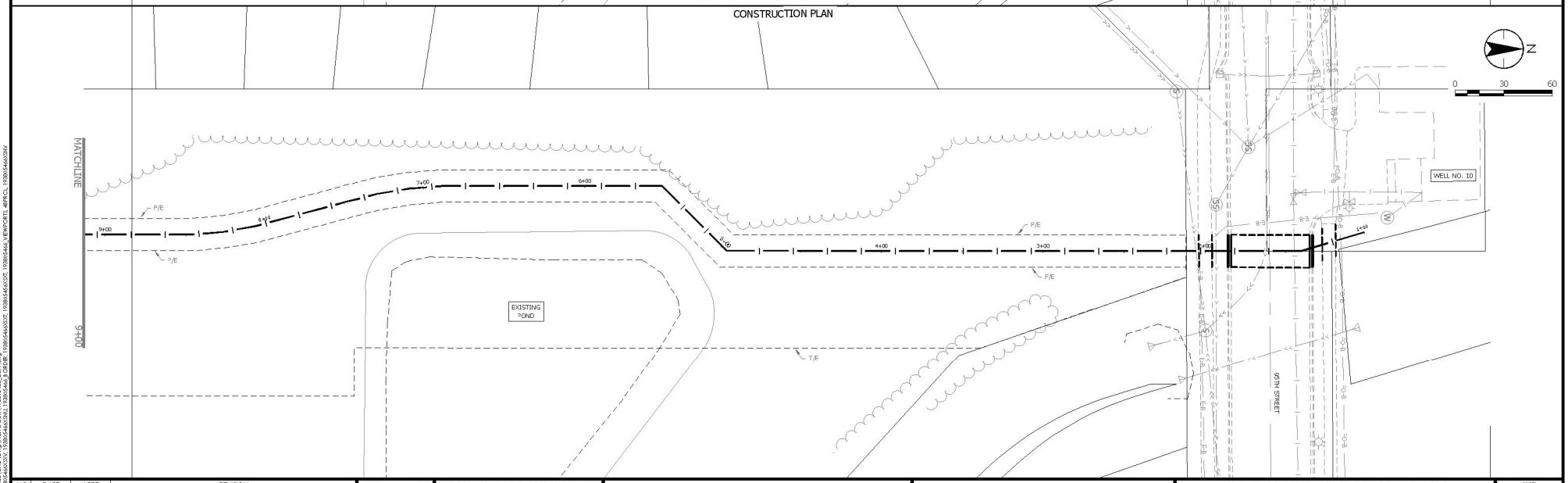
THOMAS STYRBICKI
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS



INPLACE UTILITIES & REMOVAL PLAN

CONSTRUCTION PLAN



NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

PRINT NAME: DAVID R. SANOCKI

SIGNATURE:

DATE: 2/25/2022 LIC. NO. 49973

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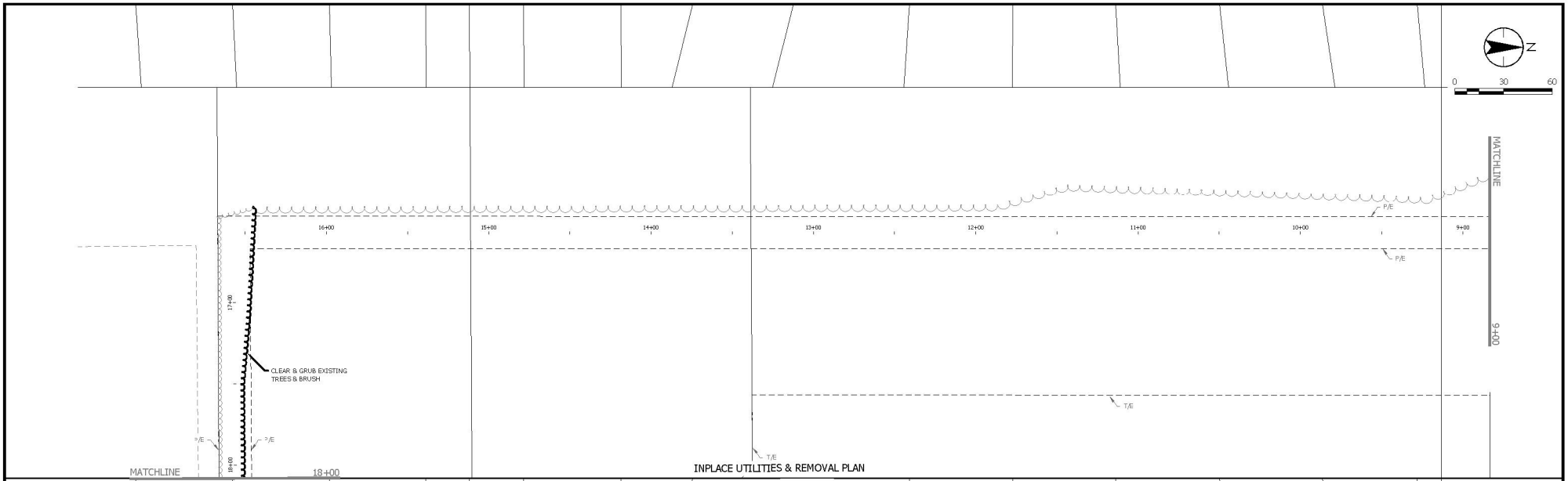
INPLACE UTILITIES, REMOVAL, & CONSTRUCTION PLAN
95TH STREET S.

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

SHEET 13 OF 42

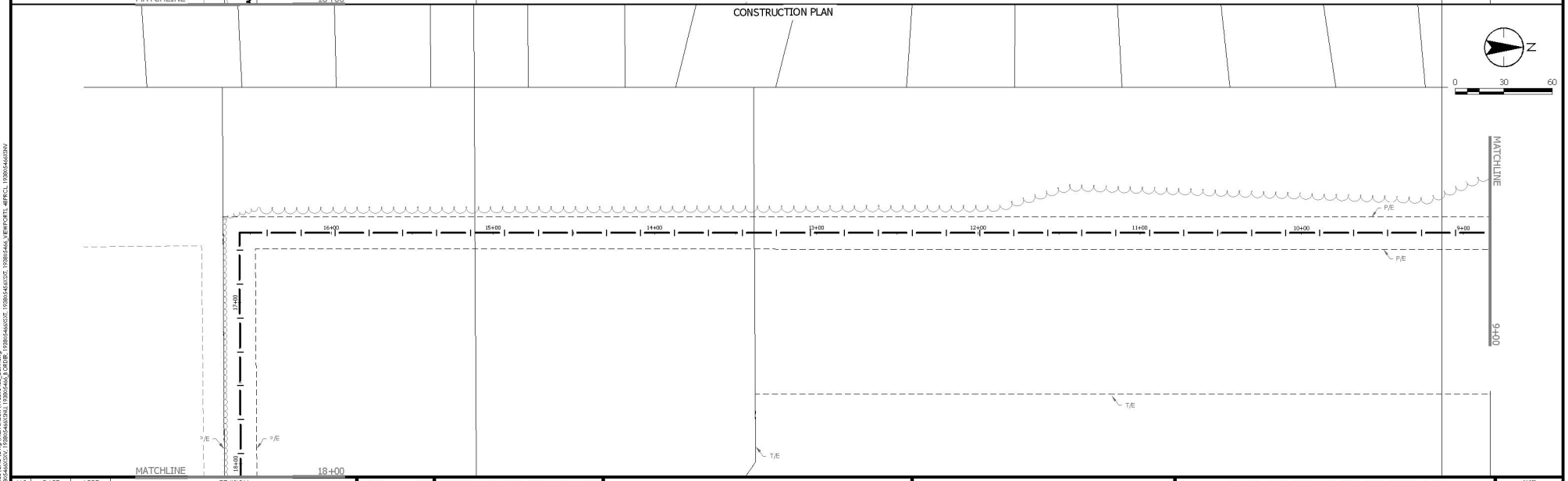
THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR IS TO ASSUME ANY AND ALL RISK ASSOCIATED WITH CONSTRUCTION IF WORK IS COMMENCED WITHOUT VERIFICATION OF DIMENSIONS AND/OR EXISTING CONDITIONS.

Plot Date: 02/25/2022 - 11:14am
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INPLACE UTILITIES & REMOVAL PLAN

CONSTRUCTION PLAN



NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

PRINT NAME: DAVID R. SANOCKI

SIGNATURE:

DATE: 2/25/2022 LIC. NO. 49973

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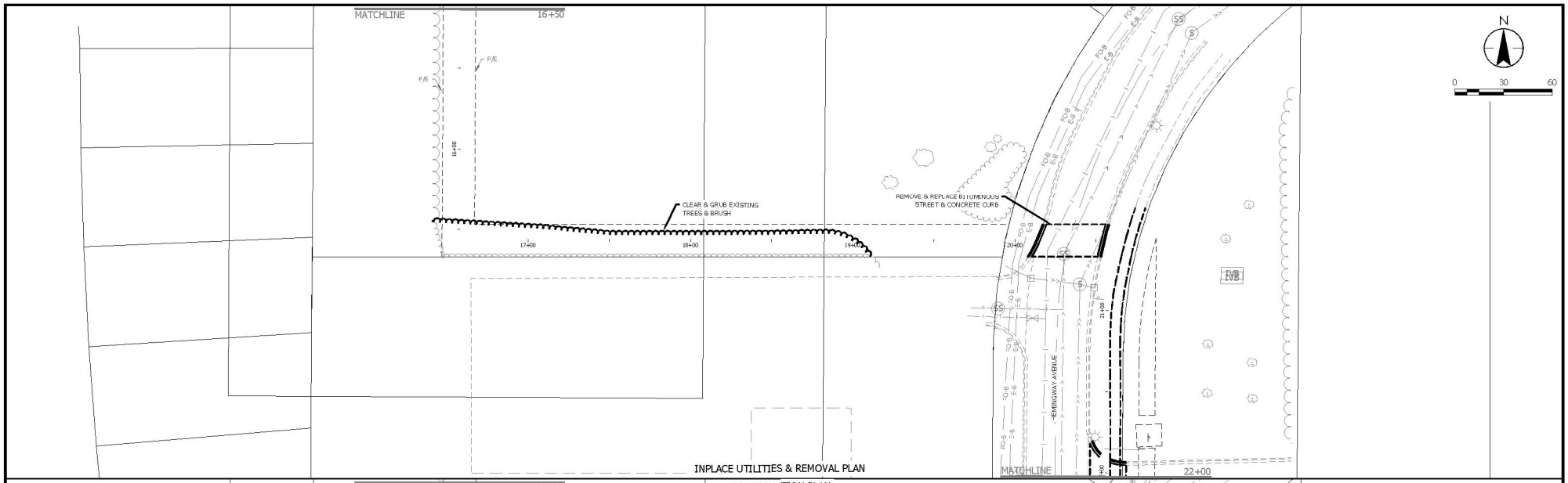
INPLACE UTILITIES, REMOVAL, & CONSTRUCTION PLAN
OPEN PROPERTY

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

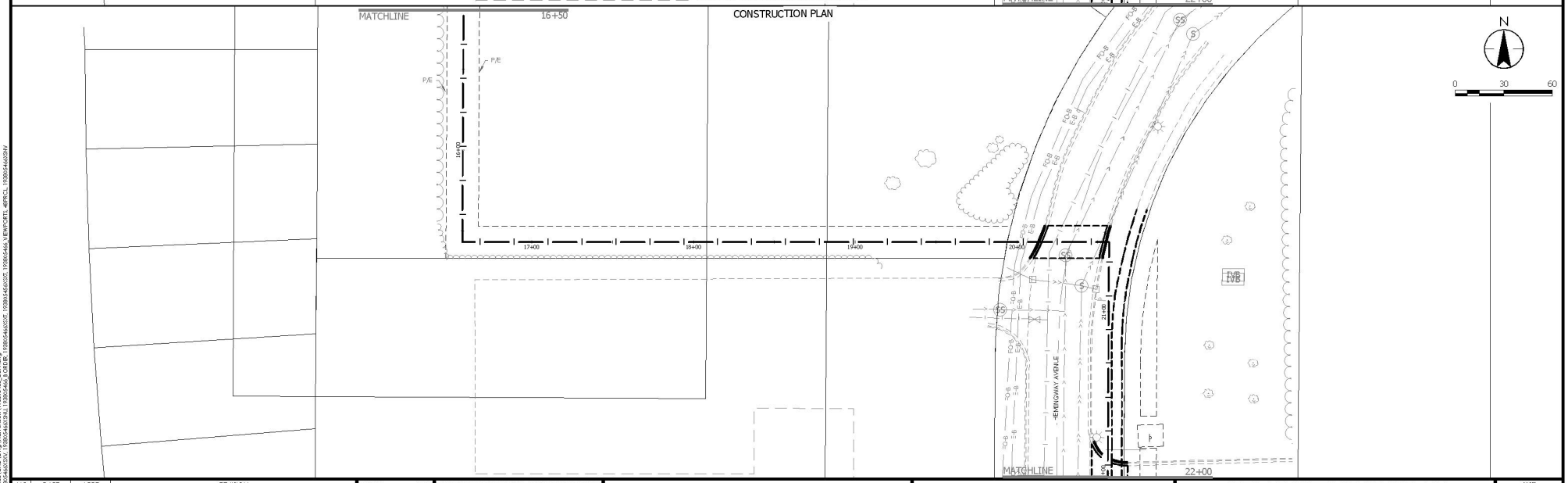
SHEET 14 OF 42

THE CONTRACTOR SHALL VERIFY AND FIELD LOCATE ALL UTILITIES PRIOR TO ALL EXCAVATIONS. DO NOT SCALE THE DRAWINGS. ANY FIELD CHANGES SHALL BE REFLECTED ON AS-BUILT DRAWINGS. AS-BUILT DRAWINGS SHALL BE KEPT UP TO DATE BY THE CONTRACTOR AND SHALL BE SUBMITTED TO THE ENGINEER AT THE END OF THE PROJECT. THE CONTRACTOR SHALL DESIGN AND ENGINEER ANY TEMPORARY OR PERMANENT SHORING SYSTEMS AS REQUIRED BY OSHA REGULATIONS AND SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF SAID SYSTEMS. ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES OR PROCEDURES.

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INPLACE UTILITIES & REMOVAL PLAN



CONSTRUCTION PLAN

NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

PRINT NAME: DAVID R. SANOCKI

SIGNATURE:

DATE: 2/25/2022 LIC. NO. 49973

Cottage Grove
Where Pride and Prosperity Meet

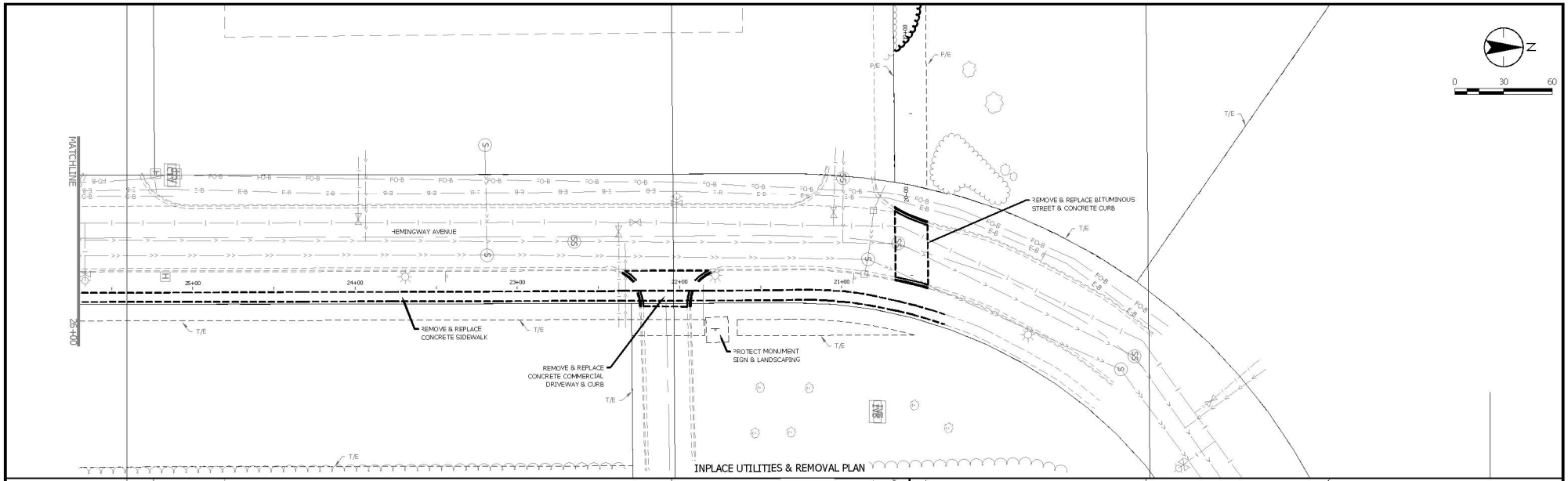
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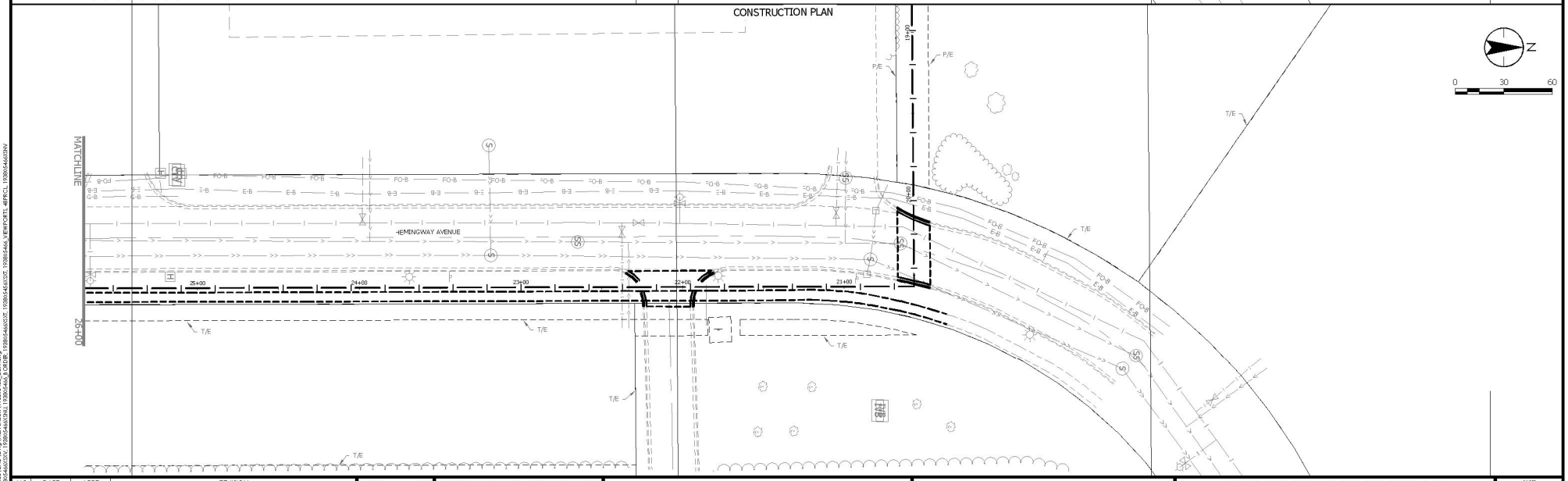
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RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

SHEET 15 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR IS TO ASSUME ANY AND ALL RISK ASSOCIATED WITH THE USE OF ANY DIMENSIONS NOT EXPRESSLY GIVEN. ALL DRAWINGS, MANUALS, AND COPIES THEREOF FURNISHED BY THE ENGINEER ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THEY ARE TO BE USED ONLY WITH RESPECT TO THIS PROJECT AND SHALL NOT BE USED ON ANY OTHER WORK EXCEPT BY AGREEMENT WITH THE ENGINEER. THEY ARE NOT TO BE LOANED, COPIED OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.



INPLACE UTILITIES & REMOVAL PLAN



CONSTRUCTION PLAN

NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
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CHECKED	---
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PRINT NAME: DAVID R. SANOCKI

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Cottage Grove
Where Pride and Prosperity Meet

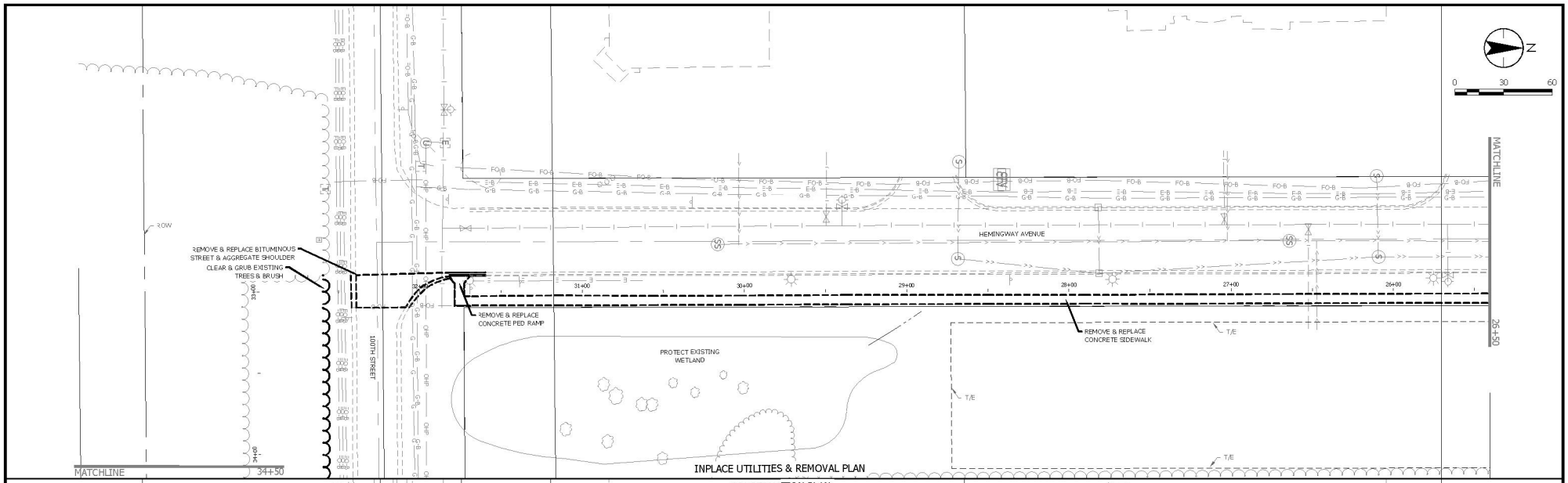
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CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

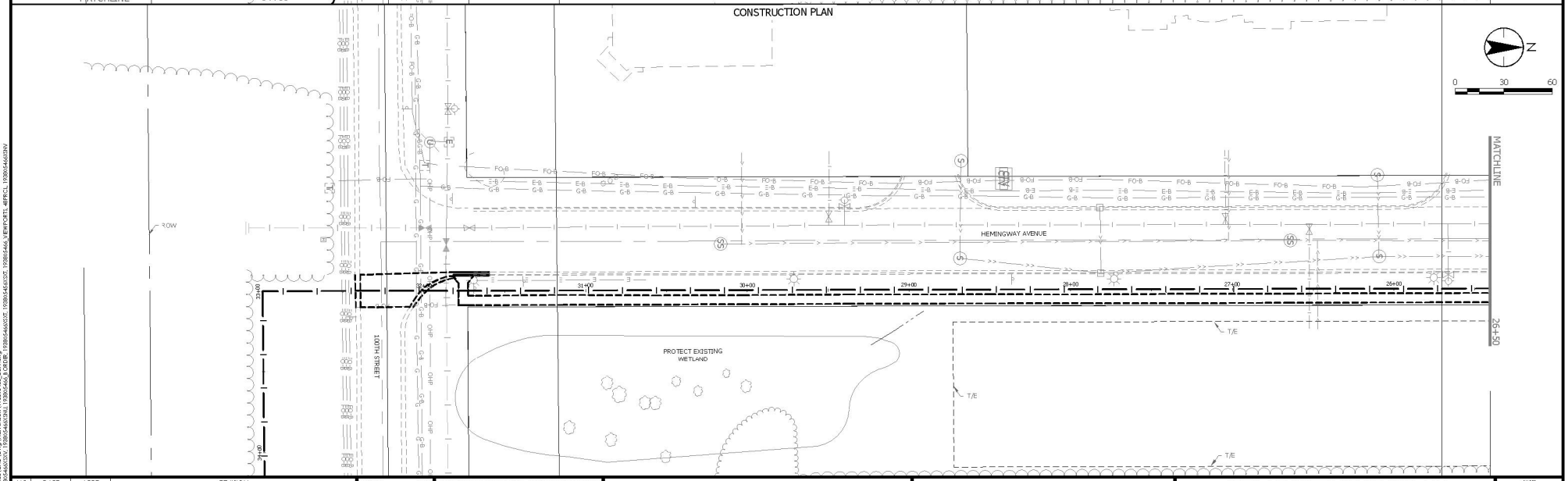
SHEET 16 OF 42

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INPLACE UTILITIES & REMOVAL PLAN

CONSTRUCTION PLAN



NO	DATE	APPR	REVISION

SURVEY	PB.W.
DRAWN	EPV.
DESIGNED	DRS.
CHECKED	---
APPROVED	DRS.
PROJ. NO.	193805466

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PRINT NAME: DAVID R. SANOCKI

SIGNATURE:

DATE: 2/25/2022 LIC. NO. 49973

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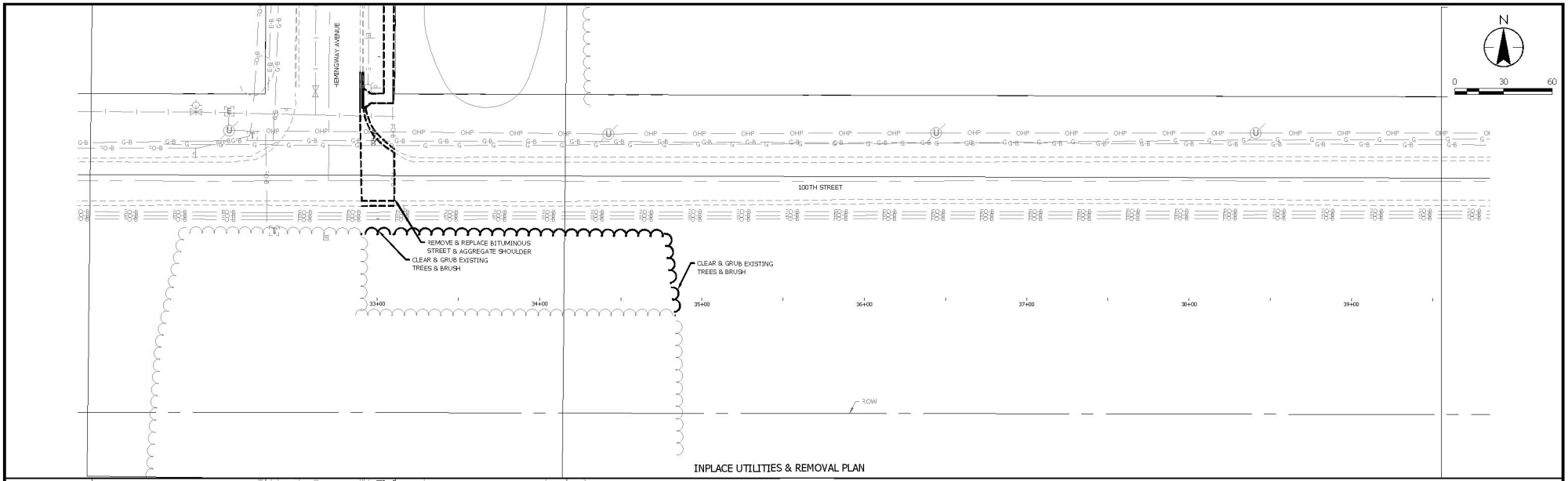
INPLACE UTILITIES, REMOVAL, & CONSTRUCTION PLAN
HEMINGWAY AVENUE S.

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

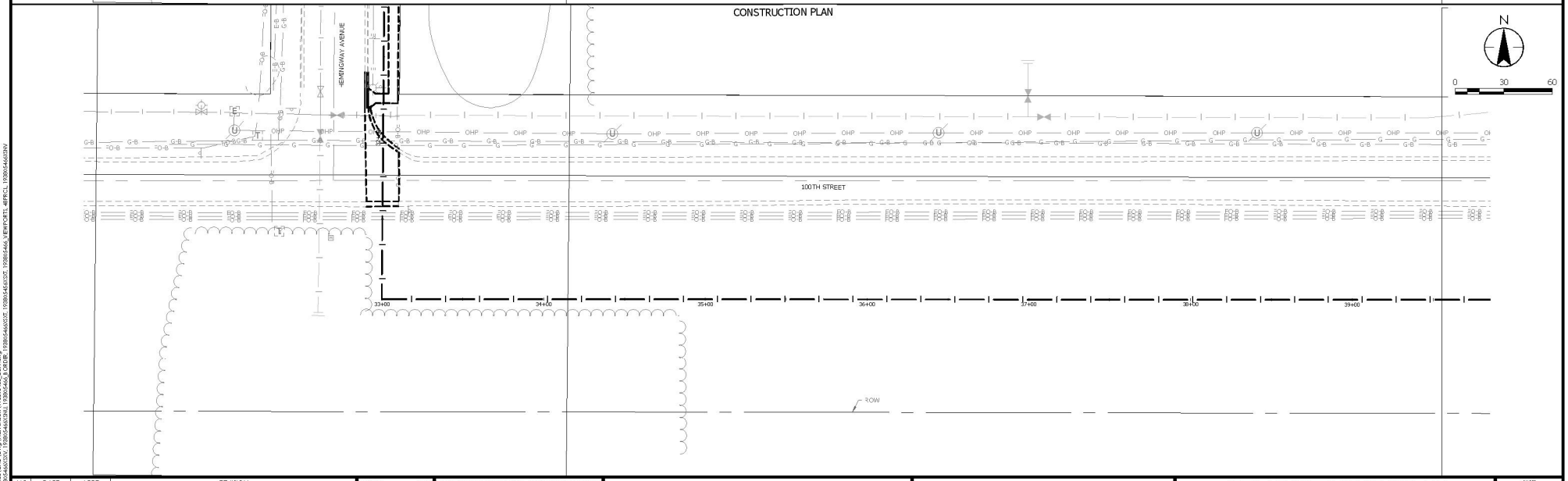
SHEET 17 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING - ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC IMMEDIATELY. THE CONTRACTOR IS TO ASSUME ANY AND ALL RISK ASSOCIATED WITH THE USE OF ELECTRONIC DRAWINGS. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY STANTEC FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO STANTEC.

Plot Date: 02/25/2022 - 11:16am
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INPLACE UTILITIES & REMOVAL PLAN



CONSTRUCTION PLAN

NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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INPLACE UTILITIES, REMOVAL, & CONSTRUCTION PLAN
100TH STREET S.

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

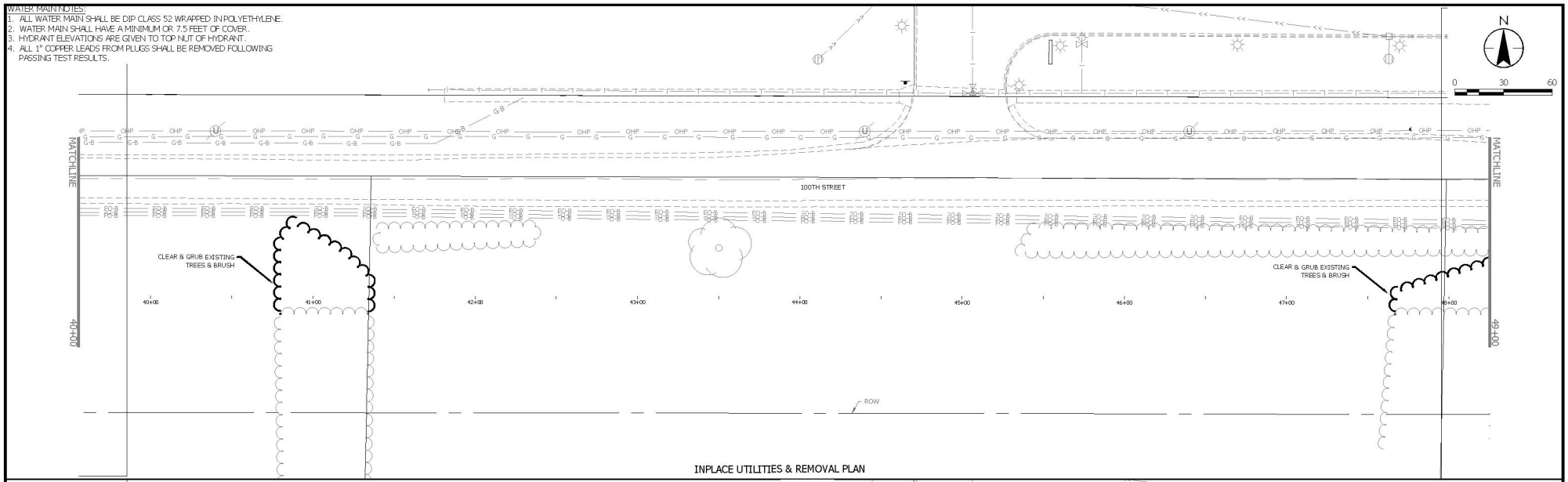
SHEET 18 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWINGS. ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL ENFORCE ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

Plot Date: 02/25/2022 - 11:17am
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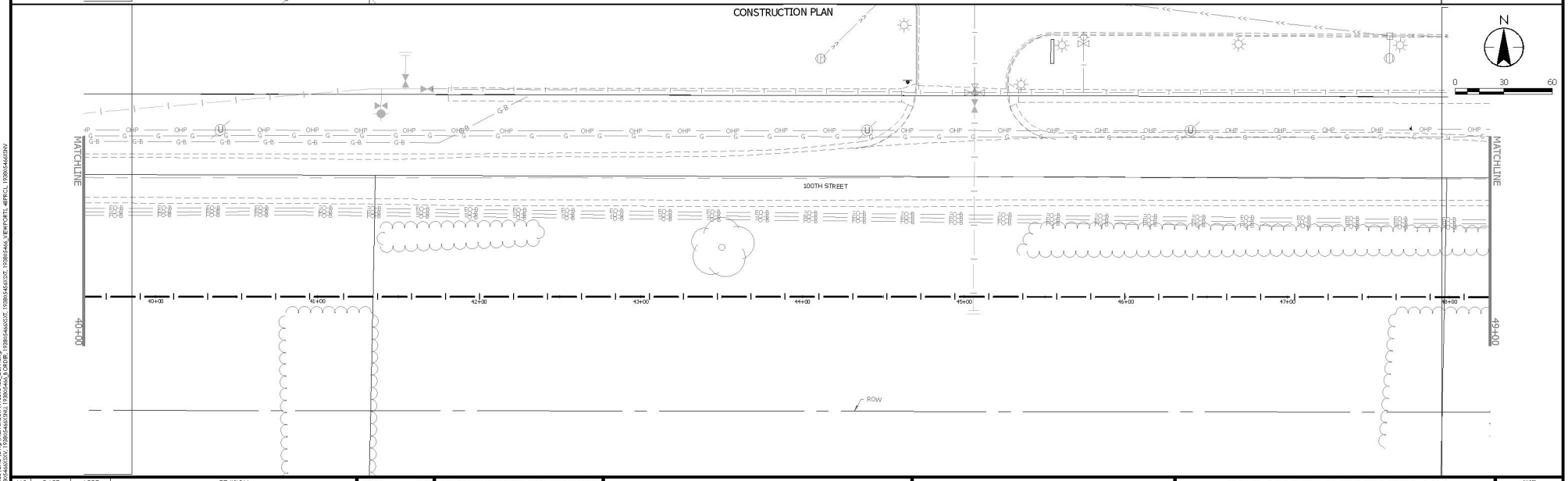
WATER MAIN NOTES:

1. ALL WATER MAIN SHALL BE DIP CLASS 52 WRAPPED IN POLYETHYLENE.
2. WATER MAIN SHALL HAVE A MINIMUM OF 7.5 FEET OF COVER.
3. HYDRANT ELEVATIONS ARE GIVEN TO TOP NUT OF HYDRANT.
4. ALL 1" COPPER LEADS FROM PLUGS SHALL BE REMOVED FOLLOWING PASSING TEST RESULTS.



INPLACE UTILITIES & REMOVAL PLAN

CONSTRUCTION PLAN



NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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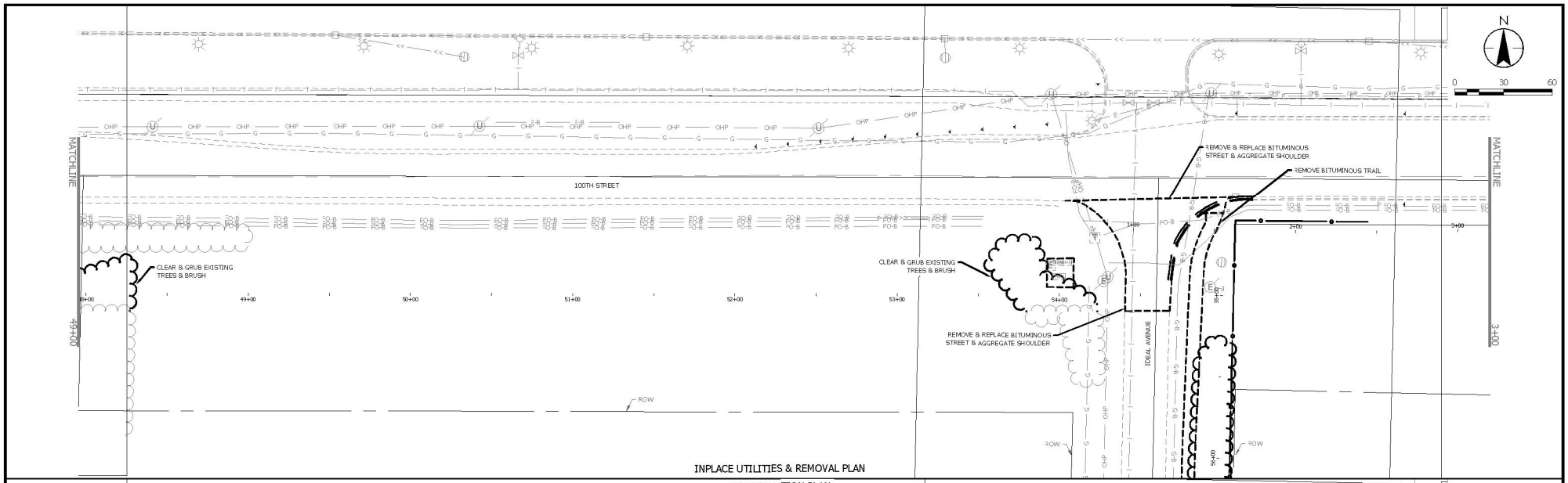
INPLACE UTILITIES, REMOVAL, & CONSTRUCTION PLAN
100TH STREET S.

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

SHEET 19 OF 42

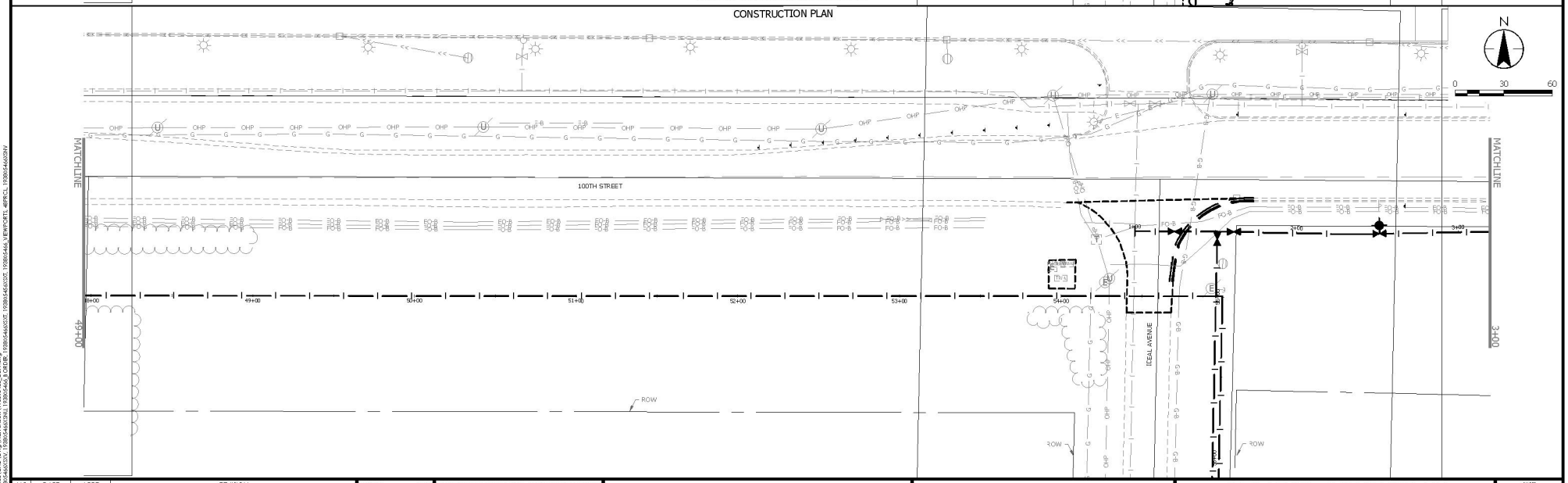
THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING - ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC IMMEDIATELY. THE CONTRACTOR IS TO ASSUME ANY RESPONSIBILITY FOR CHANGES MADE TO THIS DRAWING BY OTHERS WITHOUT PRIOR WRITTEN CONSENT FROM STANTEC. THE CONTRACTOR IS TO ALSO FIELD VERIFY ALL WORK AND IS RESPONSIBLE FOR ALL DIMENSIONS AND ELEVATIONS RELATED TO THIS WORK. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS AUTHORIZED FOR CONSTRUCTION BY STANTEC.

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INPLACE UTILITIES & REMOVAL PLAN

CONSTRUCTION PLAN



NO	DATE	APPR	REVISION

SURVEY	PB/W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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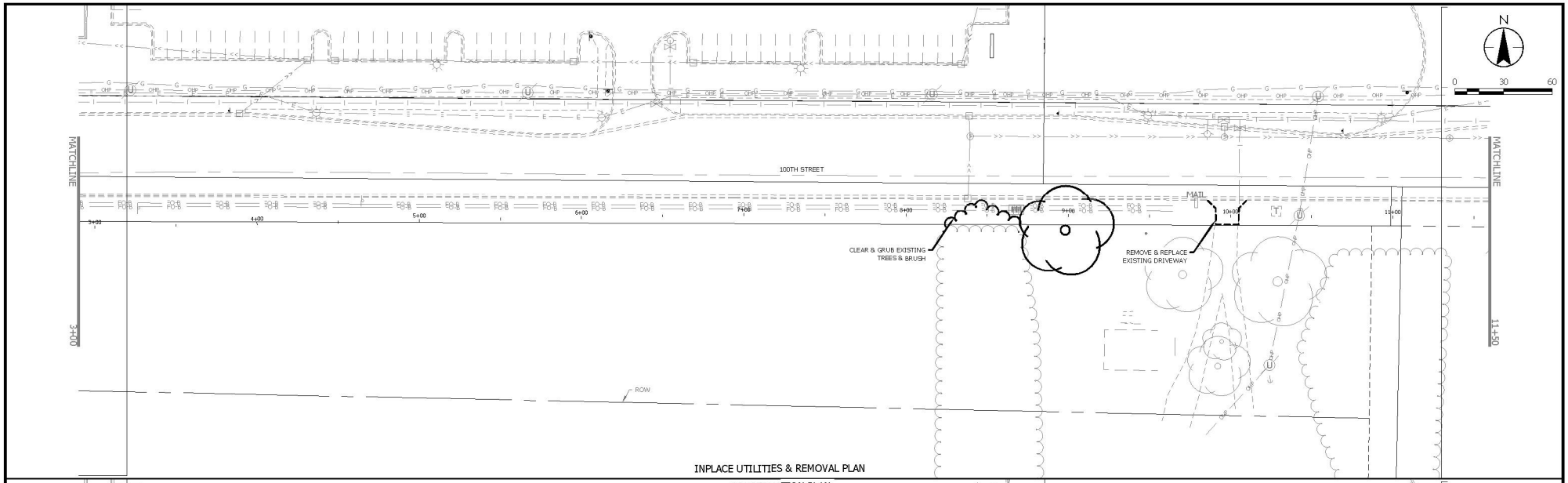
INPLACE UTILITIES, REMOVAL, & CONSTRUCTION PLAN
100TH STREET S.

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

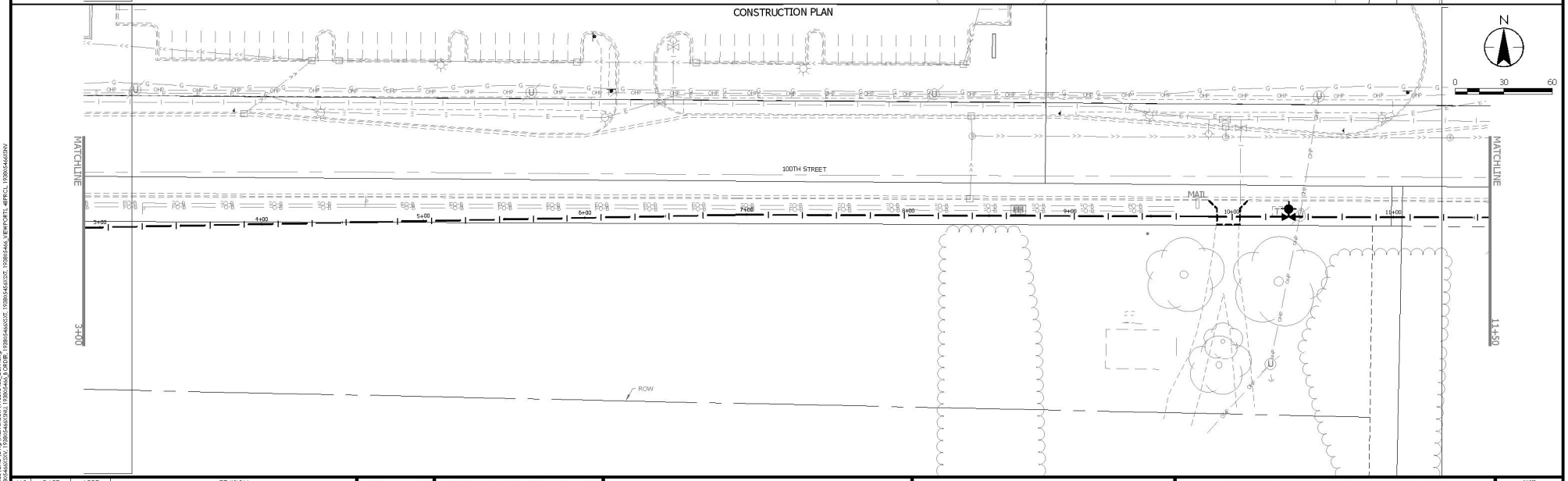
SHEET 20 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL REVIEW AND CROSS-CHECK ALL DRAWINGS BEFORE STARTING ANY CONSTRUCTION OR SHOP DRAWINGS. NO EXTRA COMPENSATION WILL BE ALLOWED FOR DIFFERENCES BETWEEN FIELD CONDITIONS AND THE DRAWINGS.

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INPLACE UTILITIES & REMOVAL PLAN



CONSTRUCTION PLAN

NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
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APPROVED	DRS
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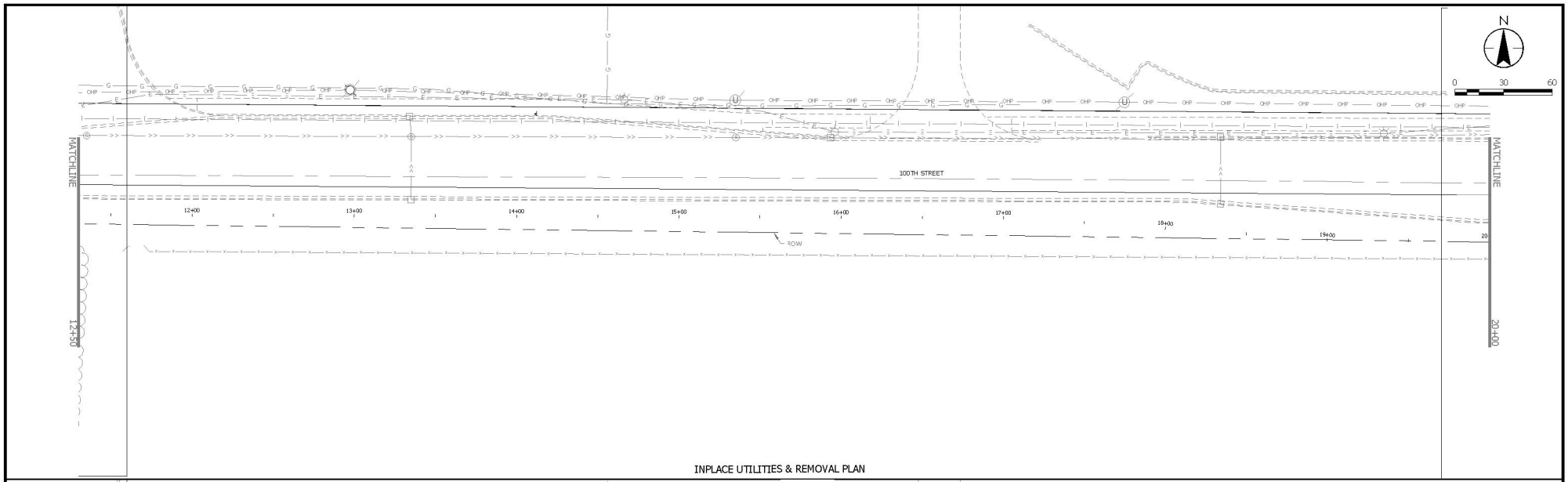
INPLACE UTILITIES, REMOVAL, & CONSTRUCTION PLAN
100TH STREET S.

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

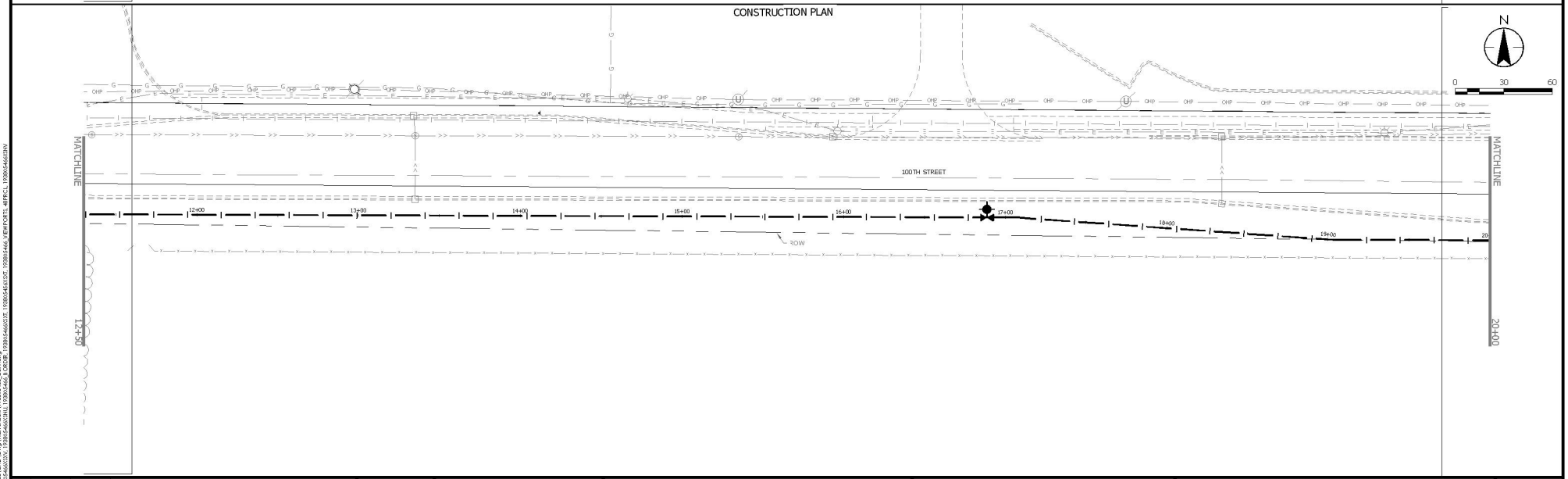
SHEET 21 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE REPORTED TO STANTEC IMMEDIATELY. THE CONTRACTOR IS TO ASSUME ANY AND ALL RISK ASSOCIATED WITH UNAUTHORIZED USE OF INCOMPLETE OR ALTERED DRAWINGS. ALL DRAWINGS ARE THE PROPERTY OF STANTEC. REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THOSE AUTHORIZED BY STANTEC IS FORBIDDEN.

Plot Date: 02/25/2022 - 11:18am
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INPLACE UTILITIES & REMOVAL PLAN



CONSTRUCTION PLAN

NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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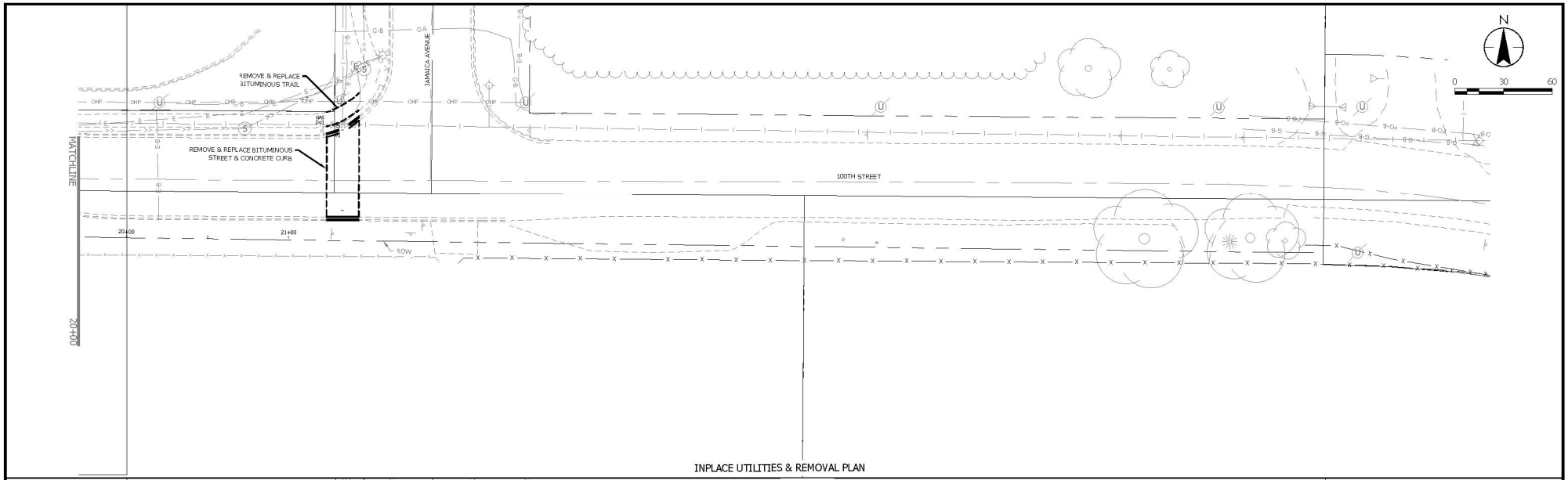
INPLACE UTILITIES, REMOVAL, & CONSTRUCTION PLAN
100TH STREET S.

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

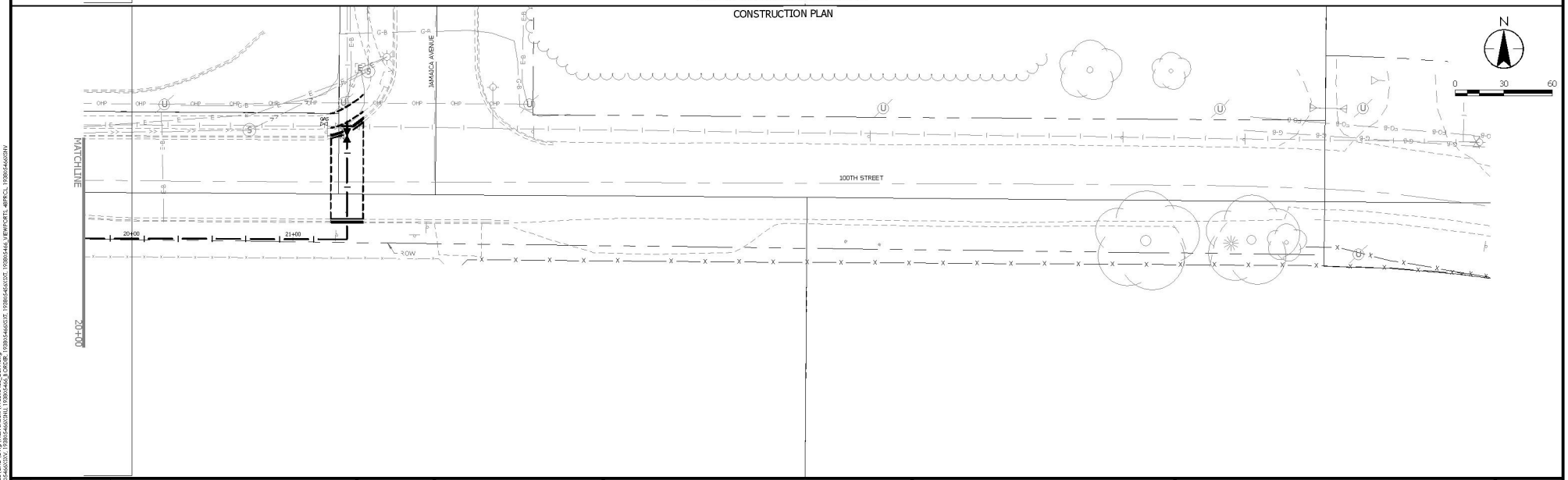
SHEET 22 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL REVIEW AND COORDINATE ALL PLANS, SHOP DRAWINGS, AND OTHER SUBMITTALS WITH THE WORK OF ALL TRADES AND SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS BEFORE ORDERING MATERIALS OR BEGINNING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

Plot Date: 02/25/2022 - 11:20am
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INPLACE UTILITIES & REMOVAL PLAN



CONSTRUCTION PLAN

NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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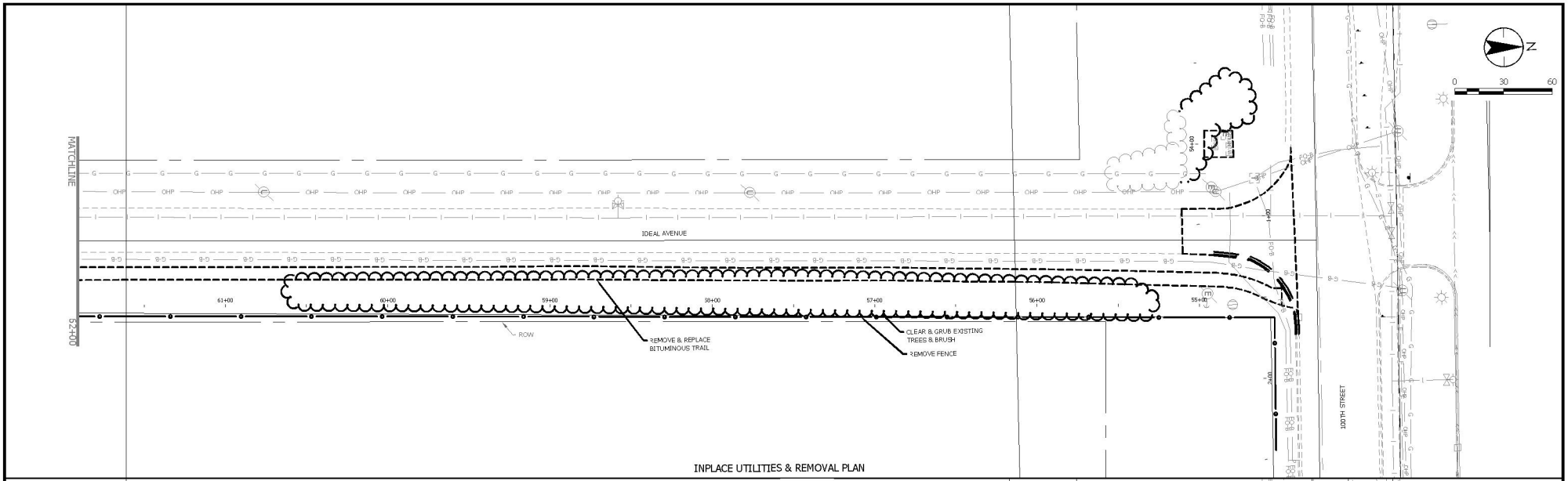
INPLACE UTILITIES, REMOVAL, & CONSTRUCTION PLAN
100TH STREET S.

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

SHEET 23 OF 42

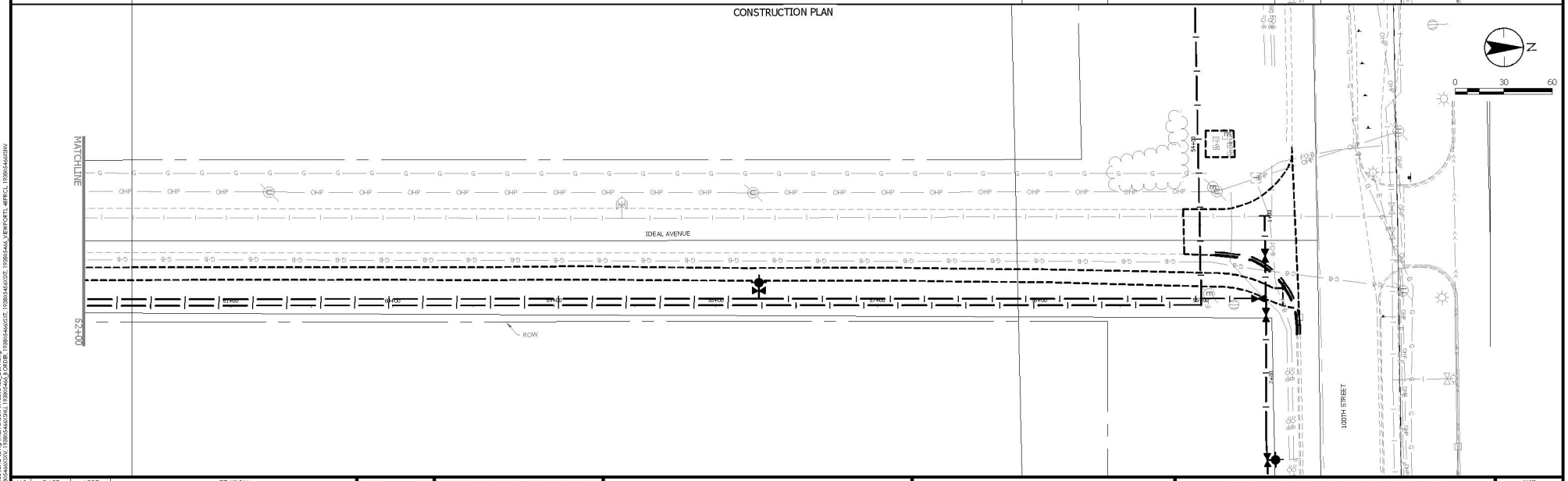
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Plot Date: 02/25/2022 - 11:20am
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INPLACE UTILITIES & REMOVAL PLAN

CONSTRUCTION PLAN



NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

PRINT NAME: DAVID R. SANOCKI

SIGNATURE:

DATE: 2/25/2022 LIC. NO. 49973

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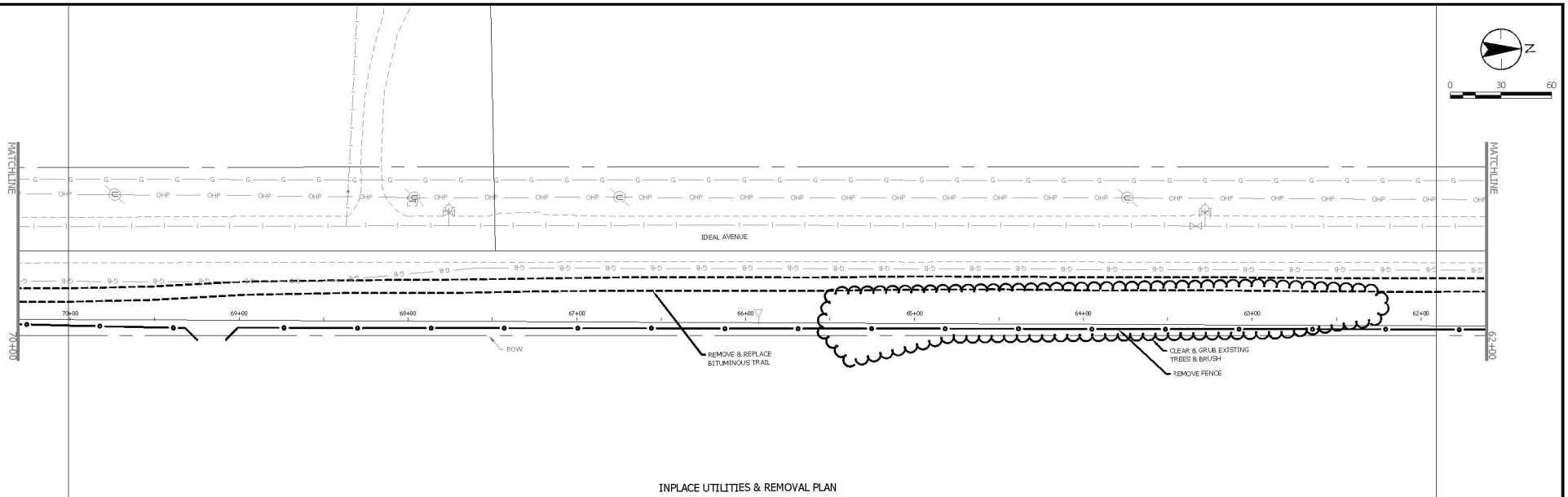
CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

SHEET 24 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE REPORTED TO STANTEC WITHOUT DELAY. THE CONTRACTOR IS TO USE ONLY THE LATEST REVISED DRAWINGS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE DRAWINGS AND THE LATEST STANDARDS OF THE REGULATORY AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.

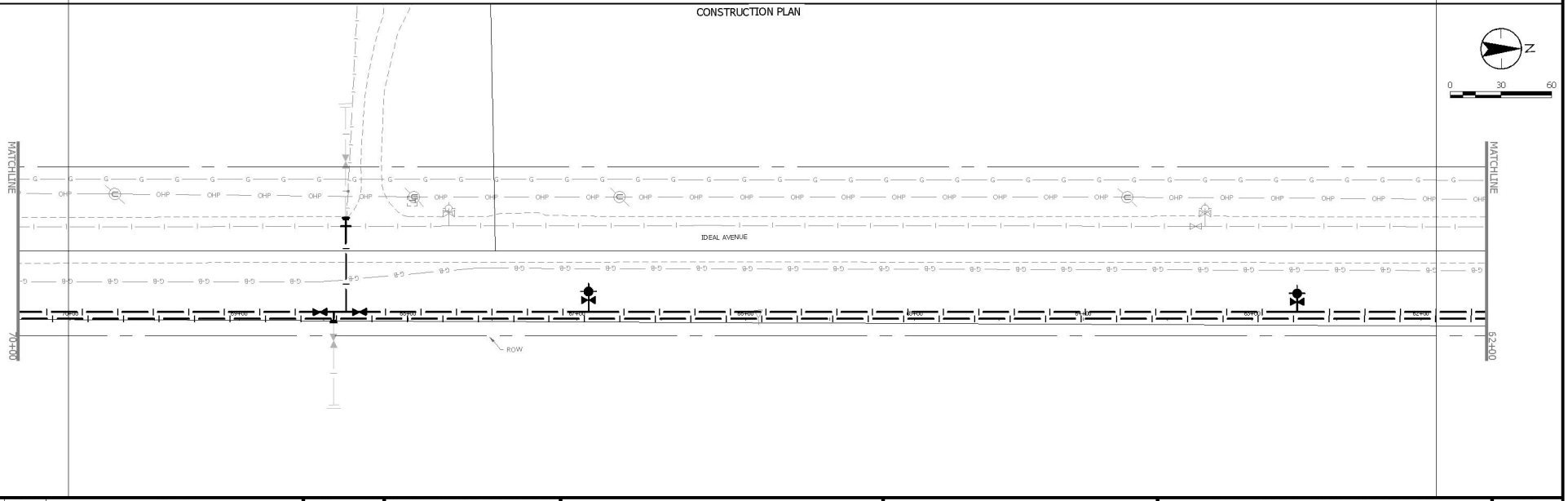
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THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWINGS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL DIMENSIONS AFFECTING PARTS OF SHARED SPECIFICATIONS AND DRAWINGS. REPRODUCTION OF THESE DRAWINGS FOR PURPOSES OTHER THAN THOSE AUTHORIZED BY STANTEC IS FORBIDDEN.



INPLACE UTILITIES & REMOVAL PLAN

CONSTRUCTION PLAN



NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

PRINT NAME: DAVID R. SANOCKI

SIGNATURE:

DATE: 2/25/2022 LIC. NO. 49973

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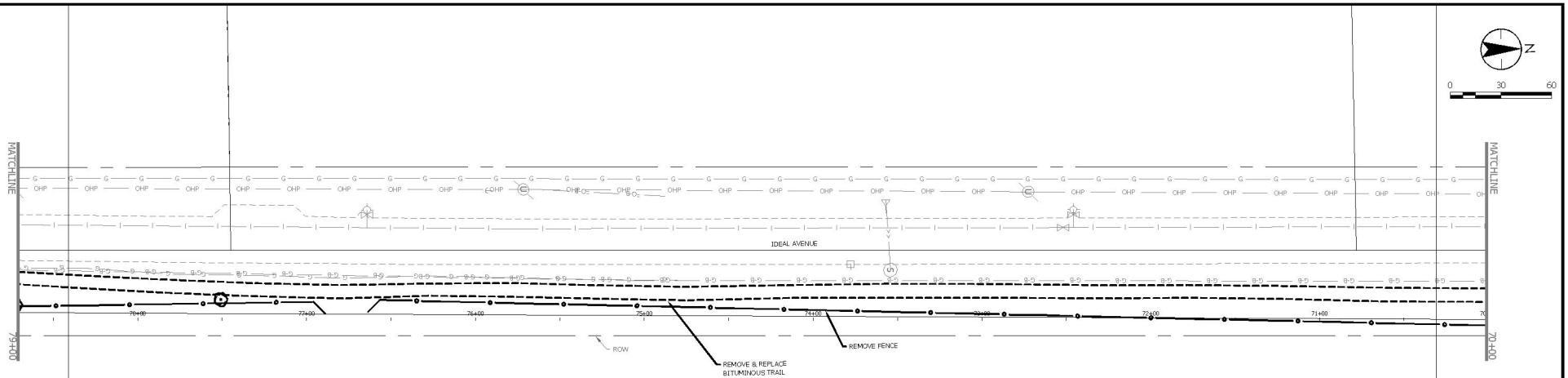
INPLACE UTILITIES, REMOVAL, & CONSTRUCTION PLAN
IDEAL AVENUE S.

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

SHEET 25 OF 42

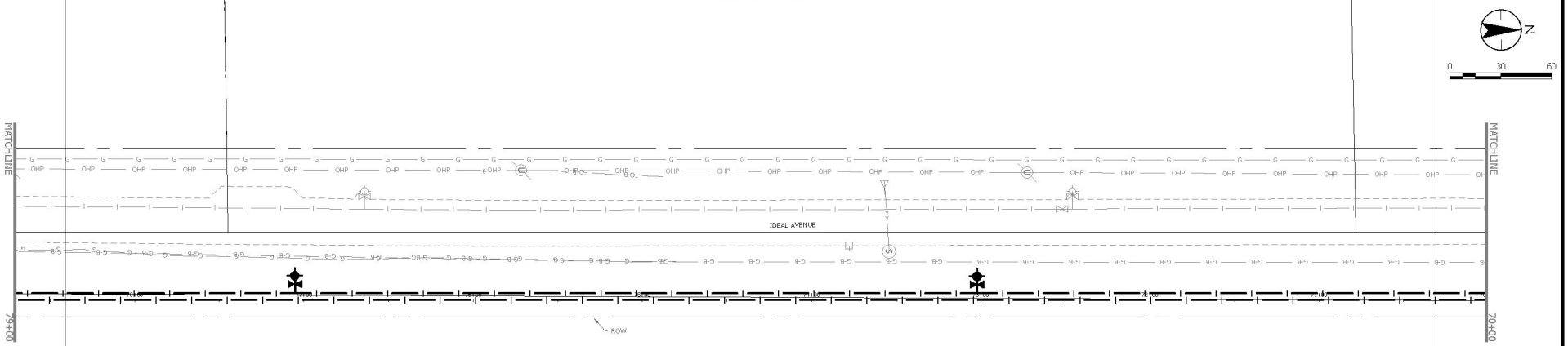
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THE CONTRACTOR SHALL VERIFY AND FIELD LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. DO NOT SCALE THE DRAWINGS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL REVIEW AND COORDINATE ALL PORTIONS OF THE PLANS, SHOP DRAWINGS, AND OTHER SUBMITTALS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK.



INPLACE UTILITIES & REMOVAL PLAN

CONSTRUCTION PLAN



NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

PRINT NAME: DAVID R. SANOCKI

SIGNATURE:

DATE: 2/25/2022 LIC. NO. 49973

Cottage Grove
Where Pride and Prosperity Meet

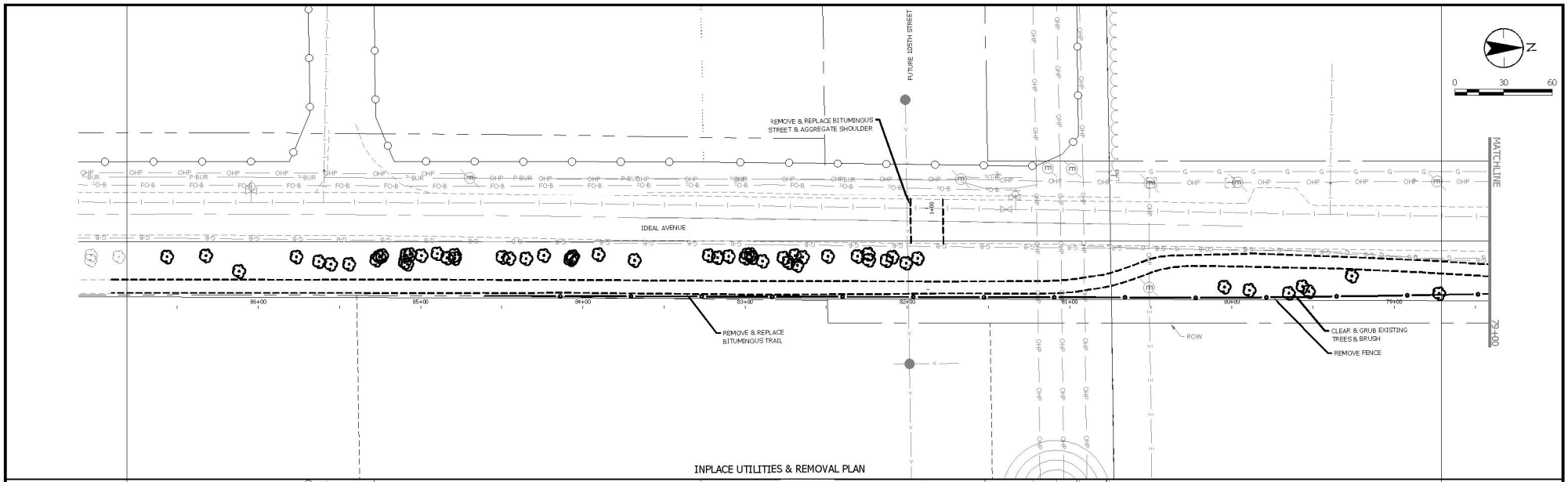
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INPLACE UTILITIES, REMOVAL, & CONSTRUCTION PLAN
IDEAL AVENUE S.

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

SHEET 26 OF 42

Plot Date: 02/25/2022 - 11:22am
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Xrefs: 193805466XSURF, 193805466XXS, 193805466XPROF, 193805466XSTR, 193805466XSAN, 193805466XTRL, 193805466XWM, 193805466XPROP, 48PROL, 193805466XSW



NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
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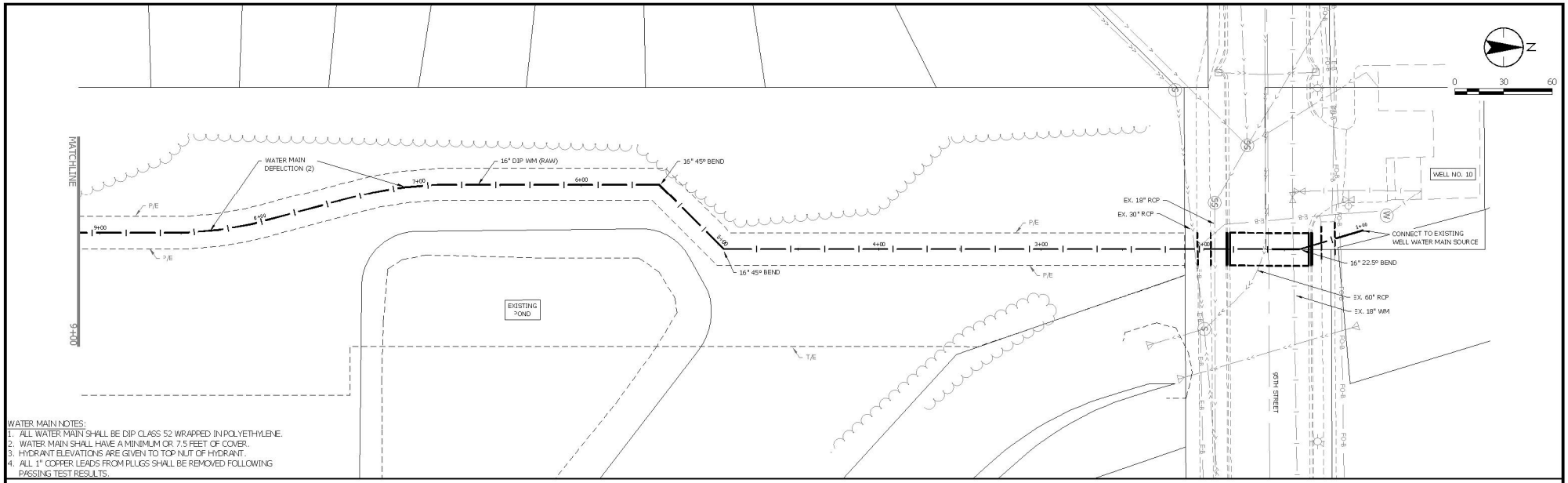
INPLACE UTILITIES, REMOVAL, & CONSTRUCTION PLAN
IDEAL AVENUE S.

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

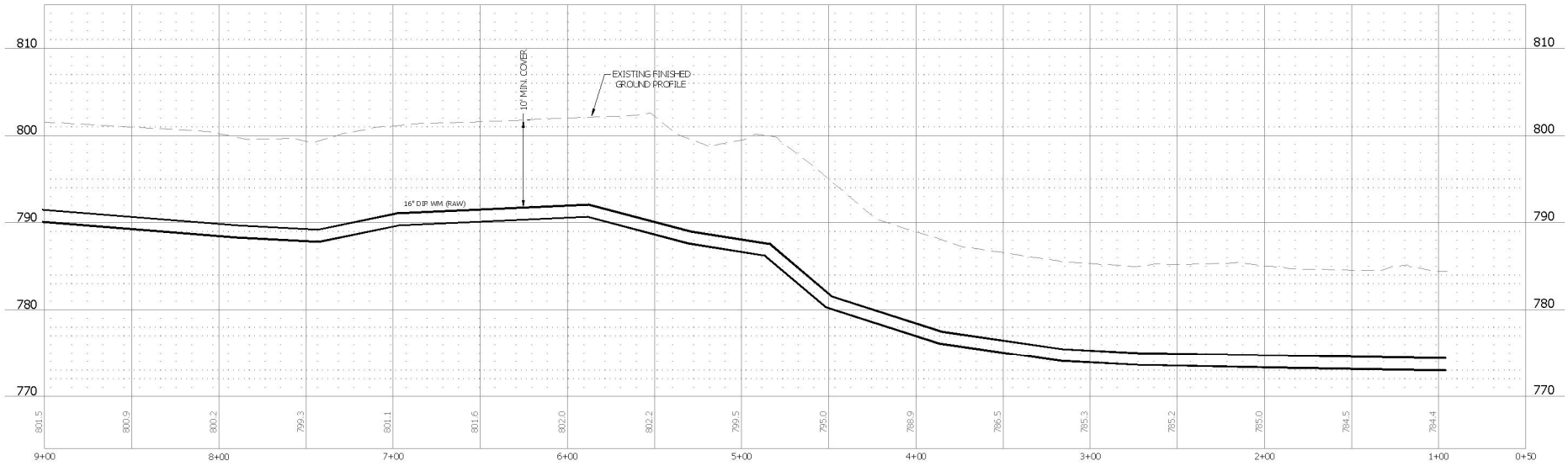
SHEET 27 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING - ANY ERRORS, OMISSIONS, OR DISCREPANCIES IN THE DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL OBTAIN ALL DESIGN AND DRAWINGS BEFORE PROCEEDING WITH ANY WORK. ALL DESIGN AND DRAWINGS ARE THE PROPERTY OF STANTEC. REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THOSE AUTHORIZED BY STANTEC IS FORBIDDEN.

Plot Date: 02/25/2022 - 11:23am
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WATER MAIN NOTES:
1. ALL WATER MAIN SHALL BE DIP CLASS 52 WRAPPED IN POLYETHYLENE.
2. WATER MAIN SHALL HAVE A MINIMUM OF 7.5 FEET OF COVER.
3. HYDRANT ELEVATIONS ARE GIVEN TO TOP NUT OF HYDRANT.
4. ALL 1" COPPER LEADS FROM PLUGS SHALL BE REMOVED FOLLOWING PASSING TEST RESULTS.



NO	DATE	APPR	REVISION

SURVEY	FB:W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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PRINT NAME: DAVID R. SANOCKI

SIGNATURE:

DATE: 2/25/2022 LIC. NO. 49973

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WATER MAIN PLAN & PROFILE
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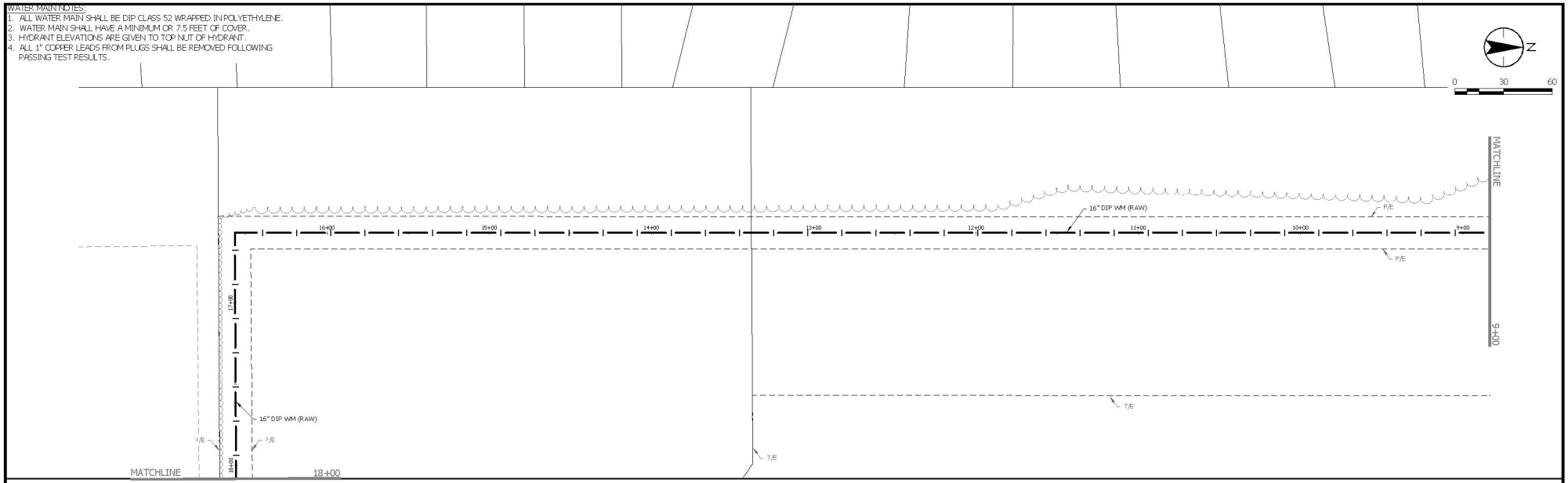
CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

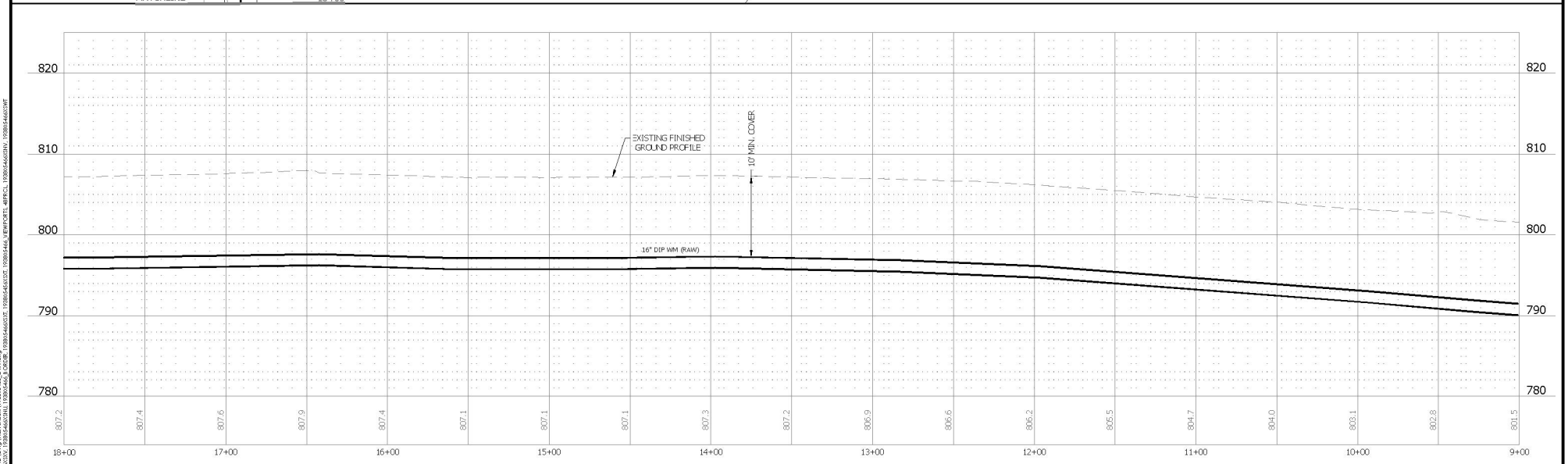
SHEET 28 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC IMMEDIATELY. THE CONTRACTOR IS TO ASSUME ANY AND ALL RISK ASSOCIATED WITH CONSTRUCTION TO ANY INCORRECTLY DIMENSIONED WORK FOR WHICH NO DIMENSIONS ARE GIVEN OR WHICH IS INCORRECT WITH RESPECT TO ADJACENT OR RELATED WORK.

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WATER MAIN NOTES:
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2. WATER MAIN SHALL HAVE A MINIMUM OR 7.5 FEET OF COVER.
3. HYDRANT ELEVATIONS ARE GIVEN TO TOP NUT OF HYDRANT.
4. ALL 1" COPPER LEADS FROM PLUGS SHALL BE REMOVED FOLLOWING PASSING TEST RESULTS.





NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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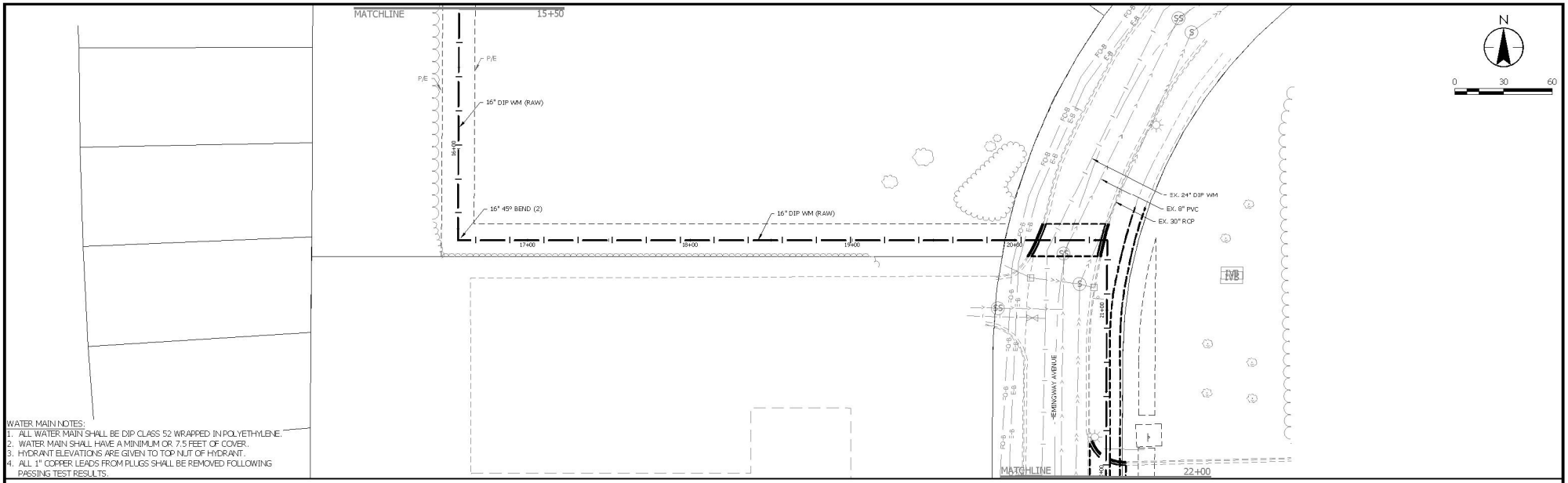
WATER MAIN PLAN & PROFILE
OPEN PROPERTY

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

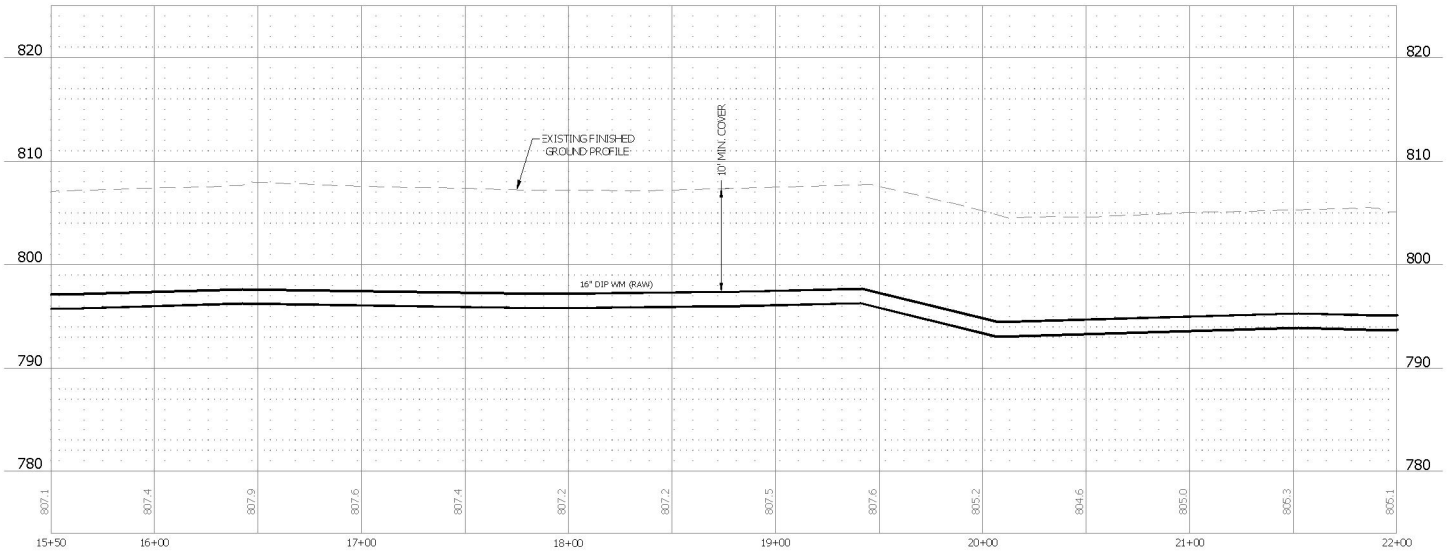
SHEET 29 OF 42

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Plot Date: 02/25/2022 - 10:54am
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WATER MAIN NOTES:
1. ALL WATER MAIN SHALL BE DIP CLASS 52 WRAPPED IN POLYETHYLENE.
2. WATER MAIN SHALL HAVE A MINIMUM OF 7.5 FEET OF COVER.
3. HYDRANT ELEVATIONS ARE GIVEN TO TOP NUT OF HYDRANT.
4. ALL 1" COPPER LEADS FROM PLUGS SHALL BE REMOVED FOLLOWING PASSING TEST RESULTS.



NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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SIGNATURE:

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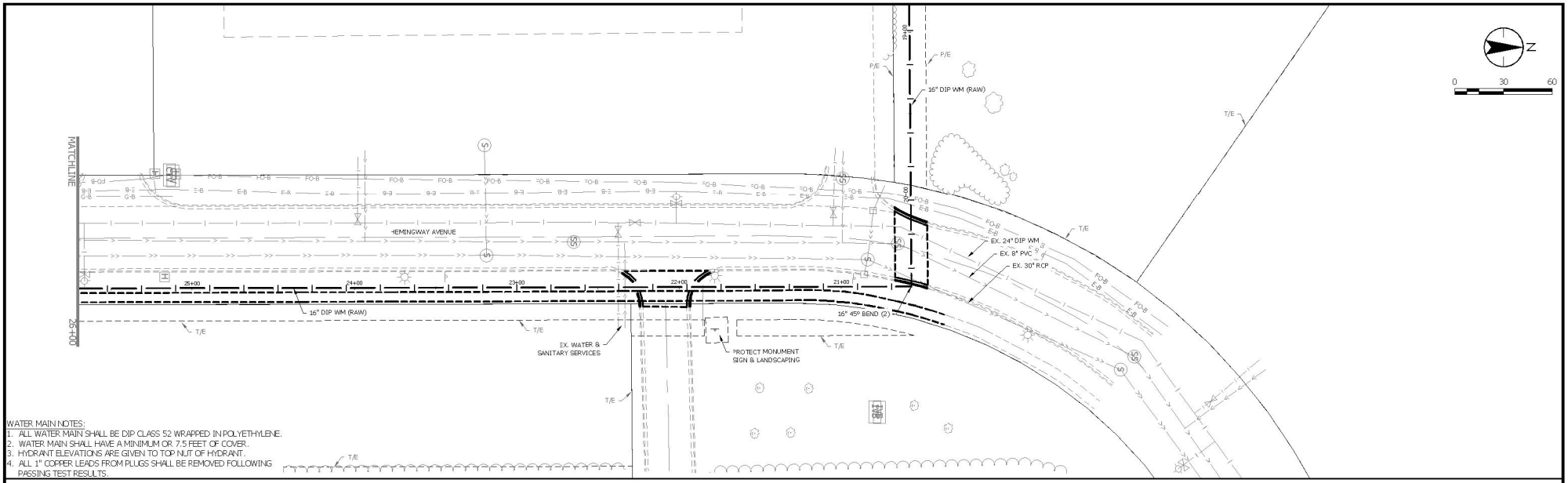
WATER MAIN PLAN & PROFILE
OPEN PROPERTY

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

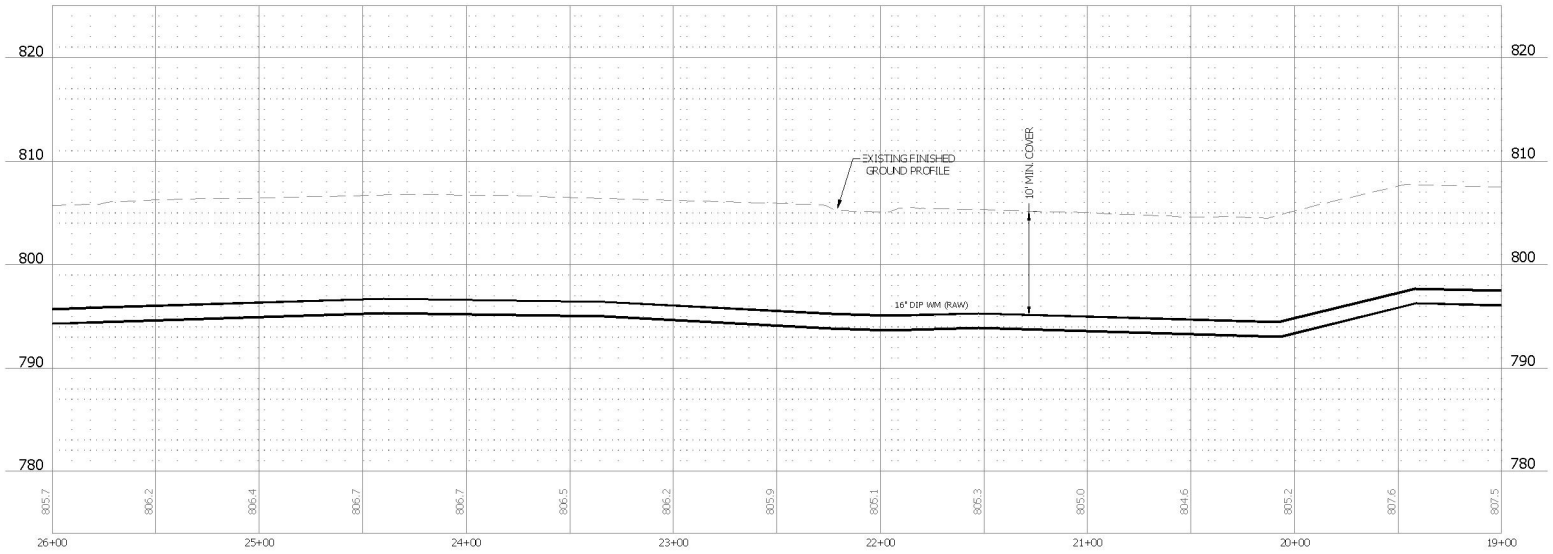
SHEET 30 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR IS TO ASSUME ANY AND ALL RESPONSIBILITY FOR MAKING ANY AND ALL CORRECTIONS TO ALL DESIGN AND DRAWINGS AS THE ENGINEER'S OPTIONS. ANY REPRODUCTION OR USE OF THESE DRAWINGS AND DESIGNS WITHOUT THE WRITTEN CONSENT OF STANTEC IS STRICTLY PROHIBITED.

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WATER MAIN NOTES:
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NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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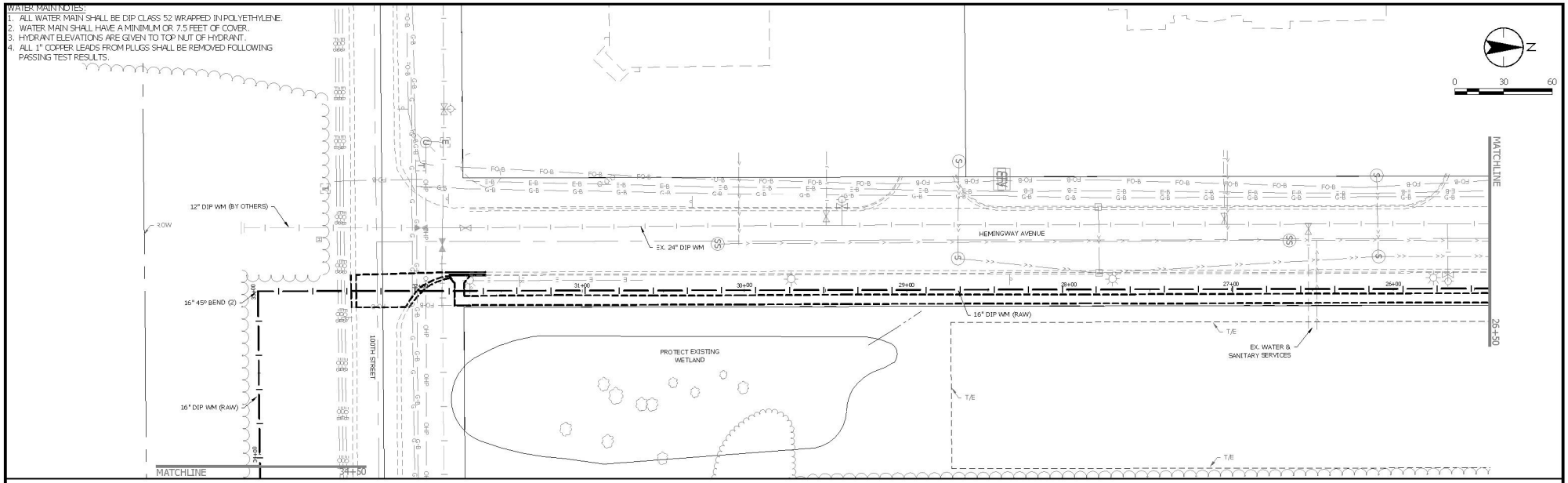
CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

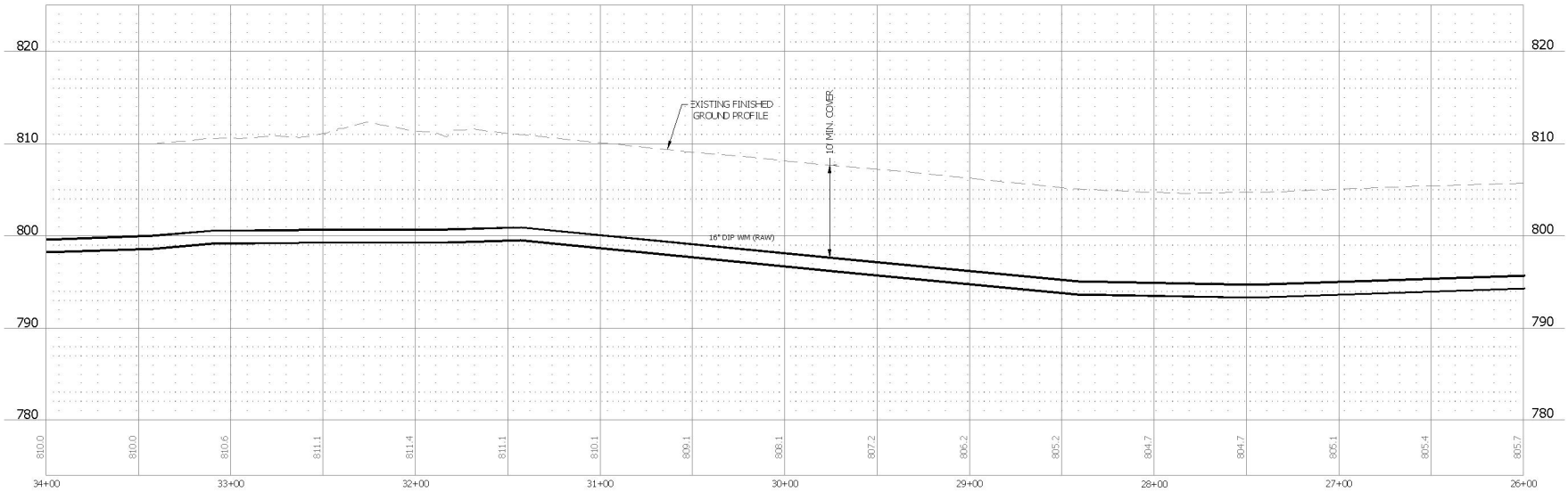
SHEET 31 OF 42

THE CONTENTS OF THIS SHEET ARE PART OF A SET OF CONSTRUCTION DRAWINGS. DO NOT DETACH THE DRAWINGS AND USE ONLY AS PART OF THE SET. REFER TO SHEET G1.01 FOR THE COMPLETE SET OF DRAWINGS. ANY USE OF THESE DRAWINGS AND SPECIFICATIONS OTHER THAN FOR THE CONSTRUCTION OF THIS PROJECT WITHOUT THE WRITTEN PERMISSION OF STANTEC IS PROHIBITED.

Plot Date: 02/25/2022 - 10:55am
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DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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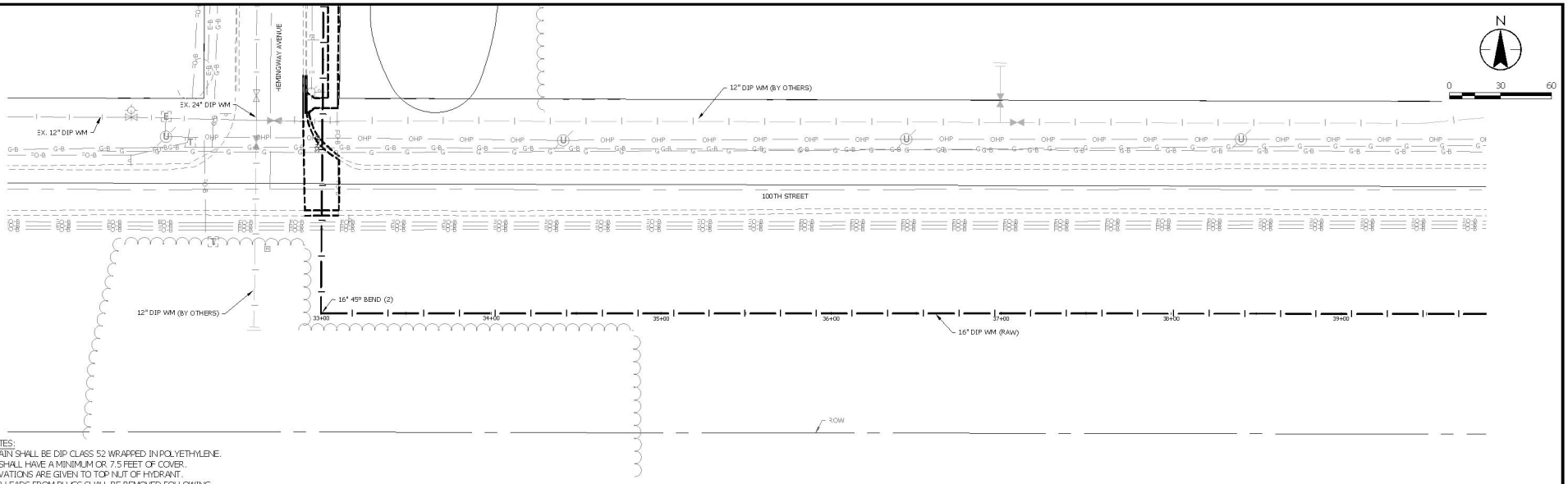
WATER MAIN PLAN & PROFILE
HEMINGWAY AVENUE S.

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

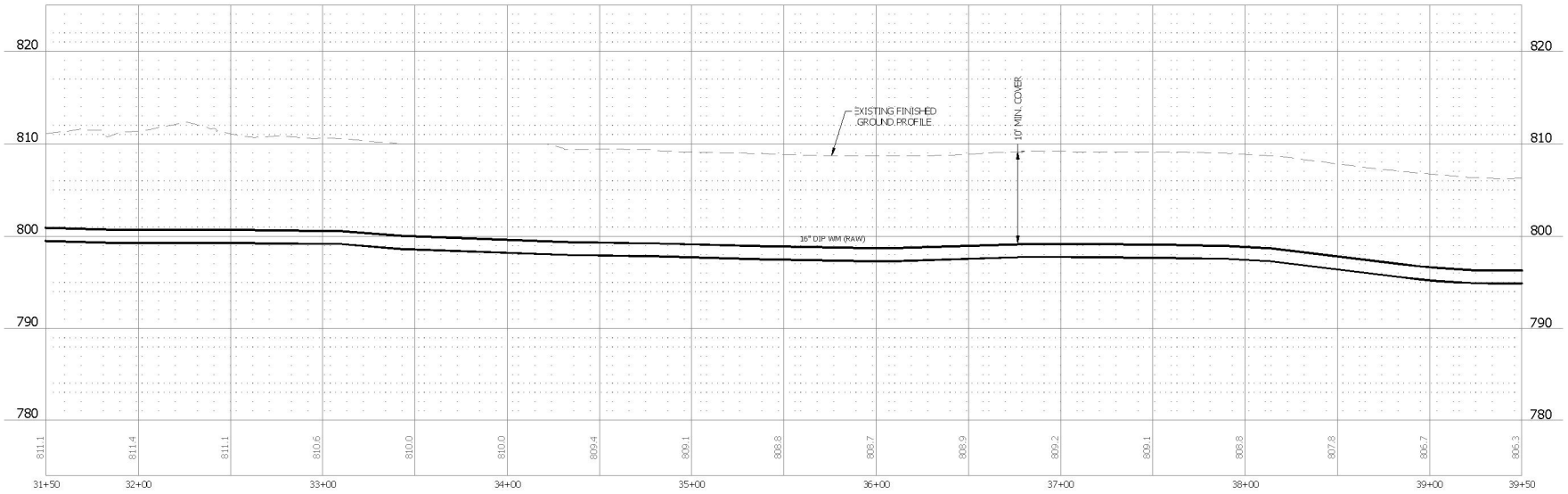
SHEET 32 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY. THE CONTRACTOR IS TO ASSUME ANY AND ALL RISK ASSOCIATED WITH THE USE OF ELECTRONIC FILES. ANY USE OF ELECTRONIC FILES SHALL BE AT THE CONTRACTOR'S SOLE RISK AND WITHOUT LIABILITY TO STANTEC. ELECTRONIC FILES ARE NOT CONTRACT DOCUMENTS.

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SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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WATER MAIN PLAN & PROFILE
100TH STREET S.

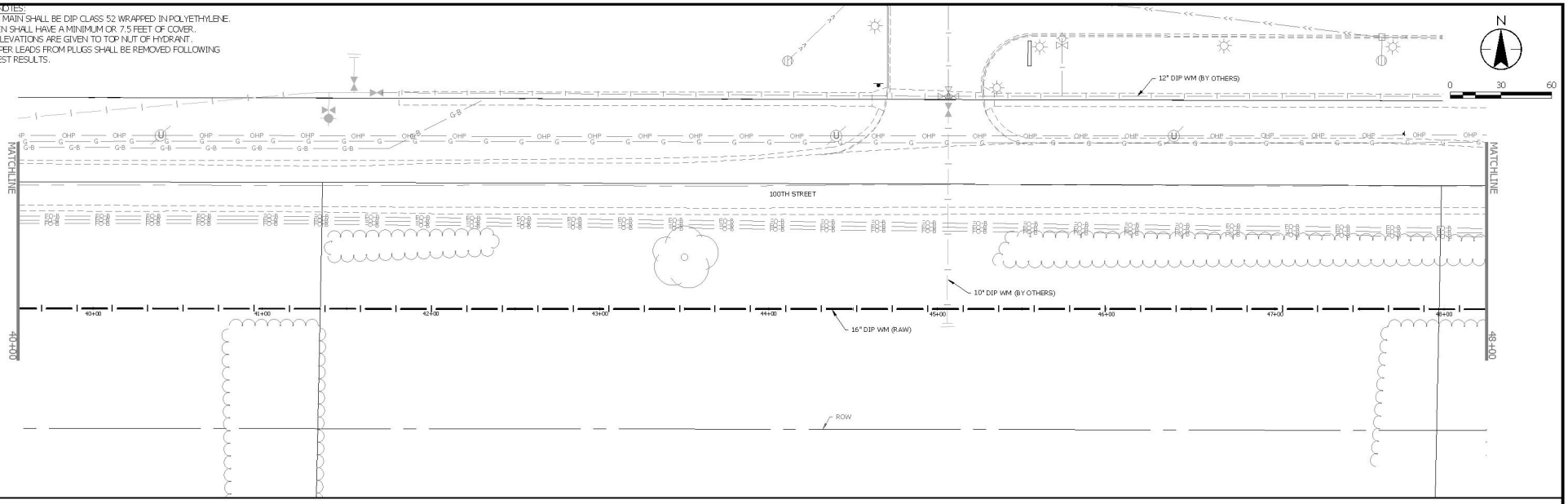
CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

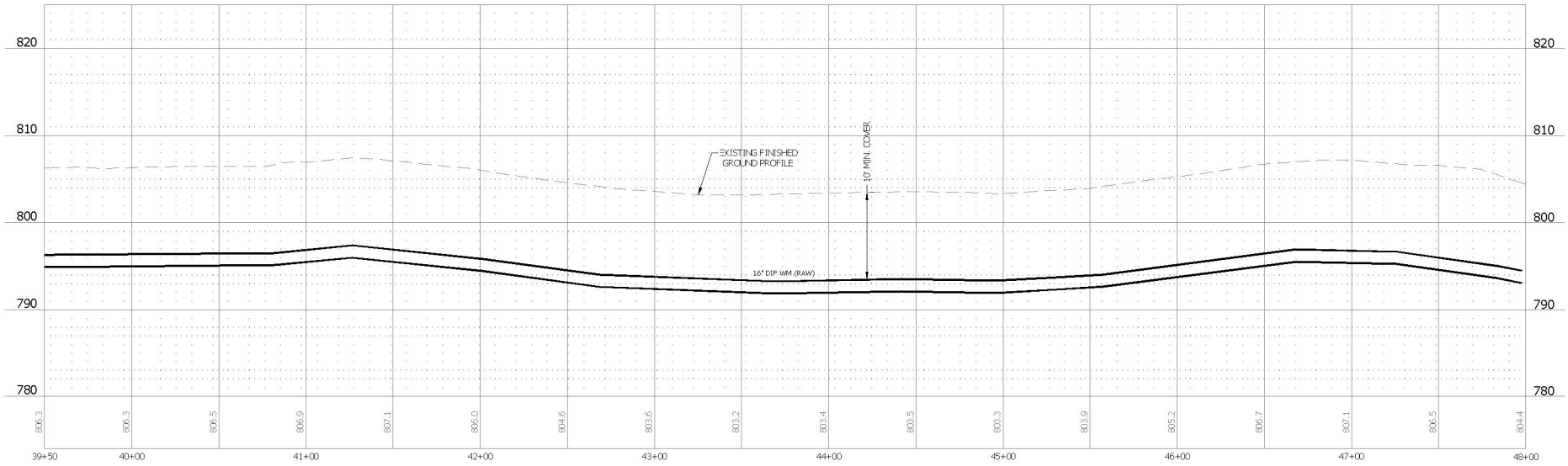
SHEET 33 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING - ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND CONFORM TO ALL FIELD CONDITIONS AFFECTING THE WORK SHOWN ON THESE DRAWINGS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.

Plot Date: 02/25/2022 - 10:57am
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WATER MAIN NOTES:
1. ALL WATER MAIN SHALL BE DIP CLASS 52 WRAPPED IN POLYETHYLENE.
2. WATER MAIN SHALL HAVE A MINIMUM OR 7.5 FEET OF COVER.
3. HYDRANT ELEVATIONS ARE GIVEN TO TOP NUT OF HYDRANT.
4. ALL 1" COPPER LEADS FROM PLUGS SHALL BE REMOVED FOLLOWING PASSING TEST RESULTS.





NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

PRINT NAME: DAVID R. SANOCKI

SIGNATURE:

DATE: 2/25/2022 LIC. NO. 49973

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Minneapolis, MN 55402-2309
www.stantec.com

WATER MAIN PLAN & PROFILE
100TH STREET S.

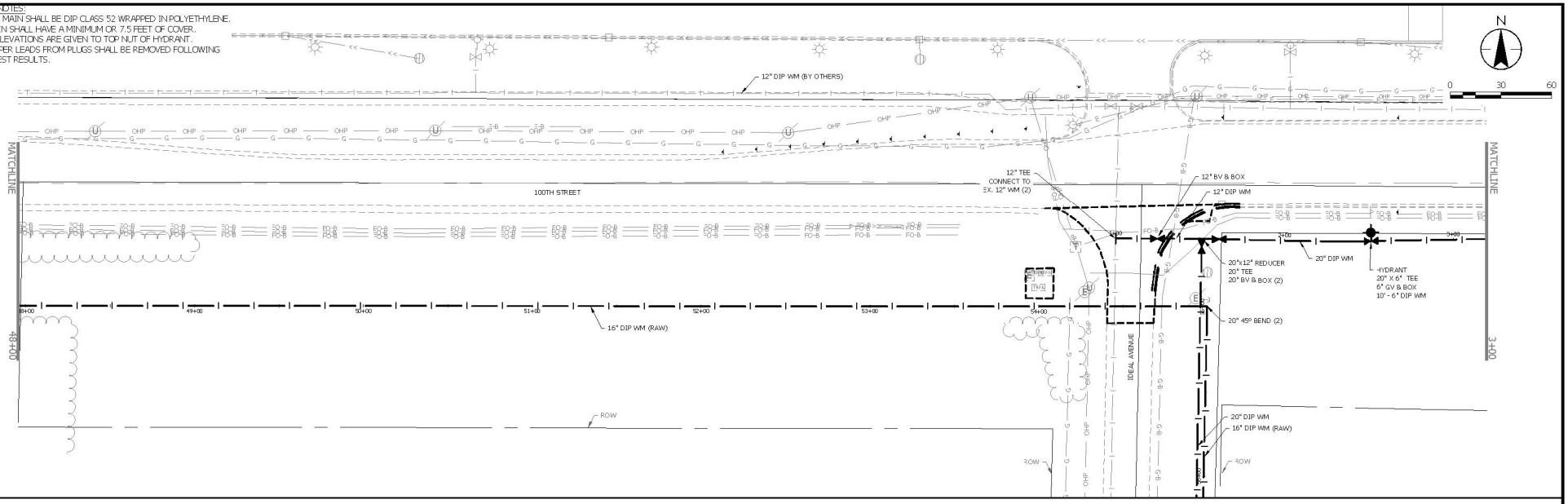
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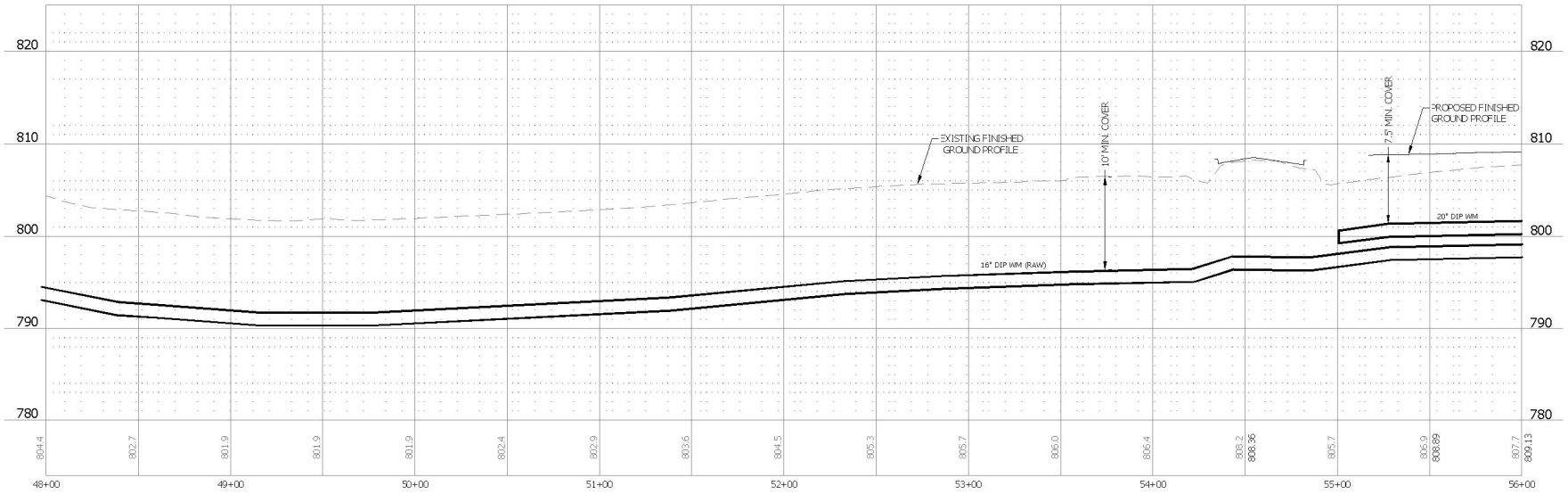
SHEET 34 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER BEFORE ANY WORK SHALL PROCEED. THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL CONTROL CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

Plot Date: 02/25/2022 - 10:57am
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WATER MAIN NOTES:
1. ALL WATER MAIN SHALL BE DIP CLASS 52 WRAPPED IN POLYETHYLENE.
2. WATER MAIN SHALL HAVE A MINIMUM OR 7.5 FEET OF COVER.
3. HYDRANT ELEVATIONS ARE GIVEN TO TOP NUT OF HYDRANT.
4. ALL 1" COPPER LEADS FROM PLUGS SHALL BE REMOVED FOLLOWING PASSING TEST RESULTS.





NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

PRINT NAME: DAVID R. SANOCKI

SIGNATURE:

DATE: 2/25/2022 LIC. NO. 49973

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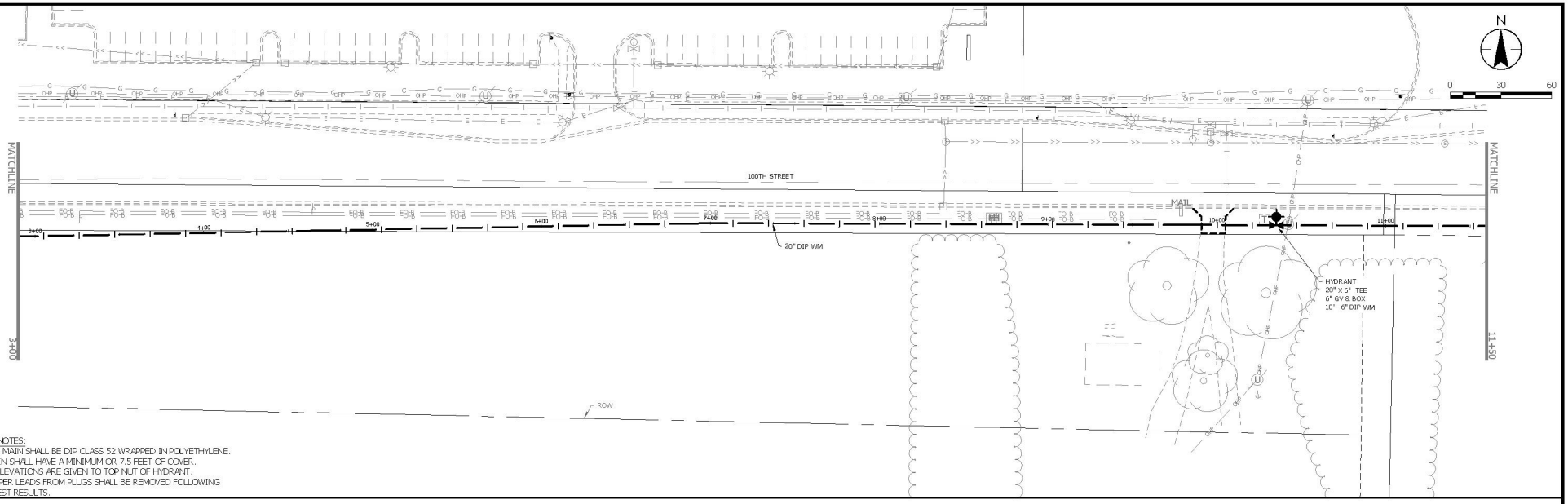
WATER MAIN PLAN & PROFILE
100TH STREET S.

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

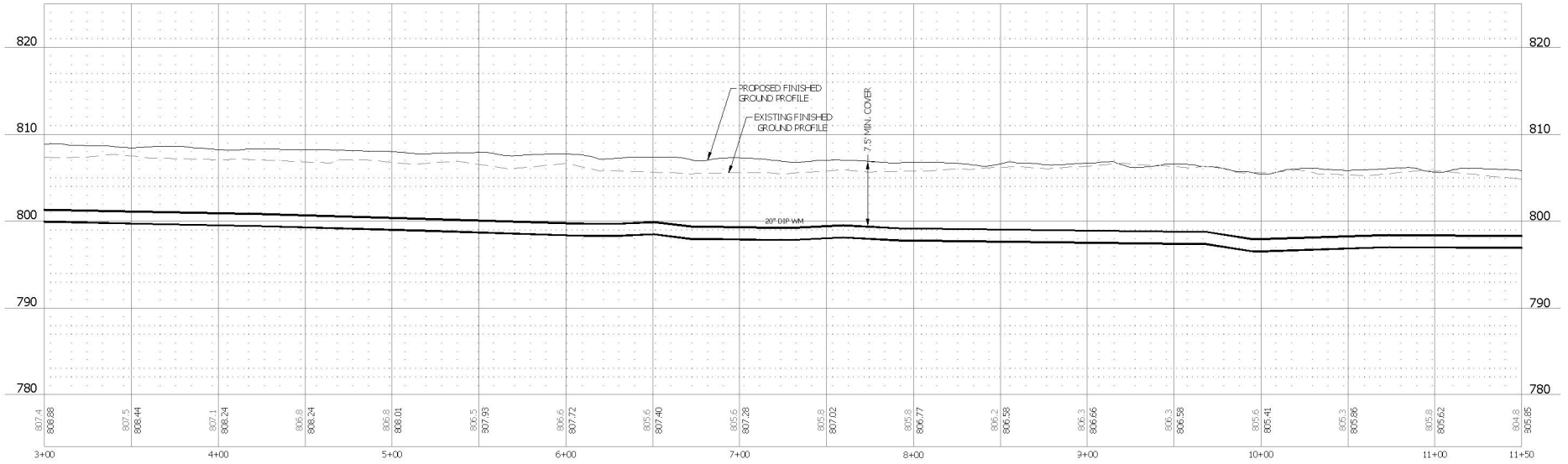
SHEET 35 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC IMMEDIATELY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADVISE HIS OR HER SUBCONTRACTORS OF ANY CHANGES. SUBCONTRACTORS SHALL REVIEW ALL DIMENSIONS, GRADES AND CONDITIONS ON THE JOB AND REPORT ANY DISCREPANCIES TO STANTEC BEFORE PROCEEDING WITH THE WORK. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL PREVAIL OVER SCALED DIMENSIONS. CONSTRUCTION SHALL NOT COMMENCE WITH ANY PORTION OF THE WORK DEPICTED BY THESE DRAWINGS UNTIL THEY ARE SIGNED AND SEALED FOR CONSTRUCTION BY THE ENGINEER OF RECORD.

Plot Date: 02/25/2022 - 10:58am
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WATER MAIN NOTES:
1. ALL WATER MAIN SHALL BE DIP CLASS 52 WRAPPED IN POLYETHYLENE.
2. WATER MAIN SHALL HAVE A MINIMUM OF 7.5 FEET OF COVER.
3. HYDRANT ELEVATIONS ARE GIVEN TO TOP NUT OF HYDRANT.
4. ALL 1" COPPER LEADS FROM PLUGS SHALL BE REMOVED FOLLOWING PASSING TEST RESULTS.



NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

PRINT NAME: DAVID R. SANOCKI

SIGNATURE:

DATE: 2/25/2022 LIC. NO. 49973

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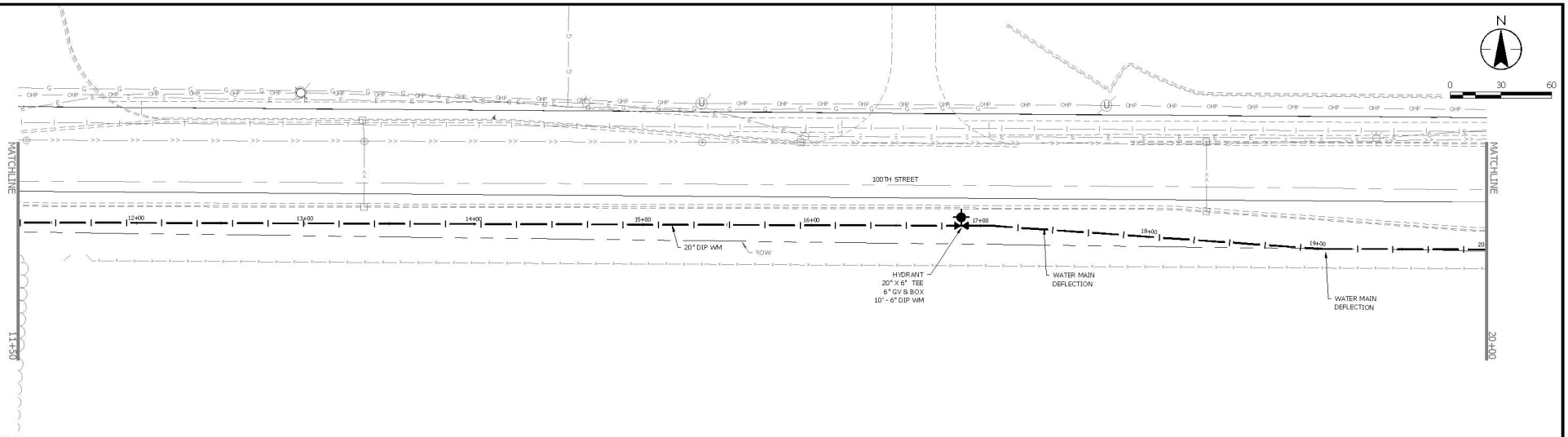
Stantec
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WATER MAIN PLAN & PROFILE
100TH STREET S.

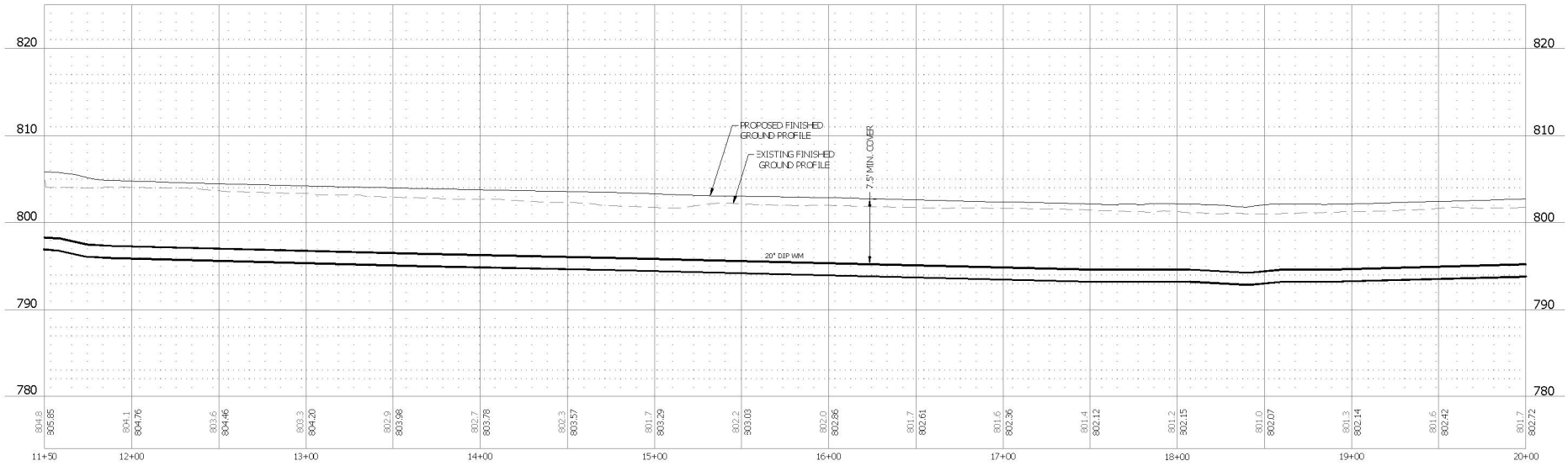
CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

SHEET 36 OF 42

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WATER MAIN NOTES:
1. ALL WATER MAIN SHALL BE DIP CLASS 52 WRAPPED IN POLYETHYLENE.
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3. HYDRANT ELEVATIONS ARE GIVEN TO TOP NUT OF HYDRANT.
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NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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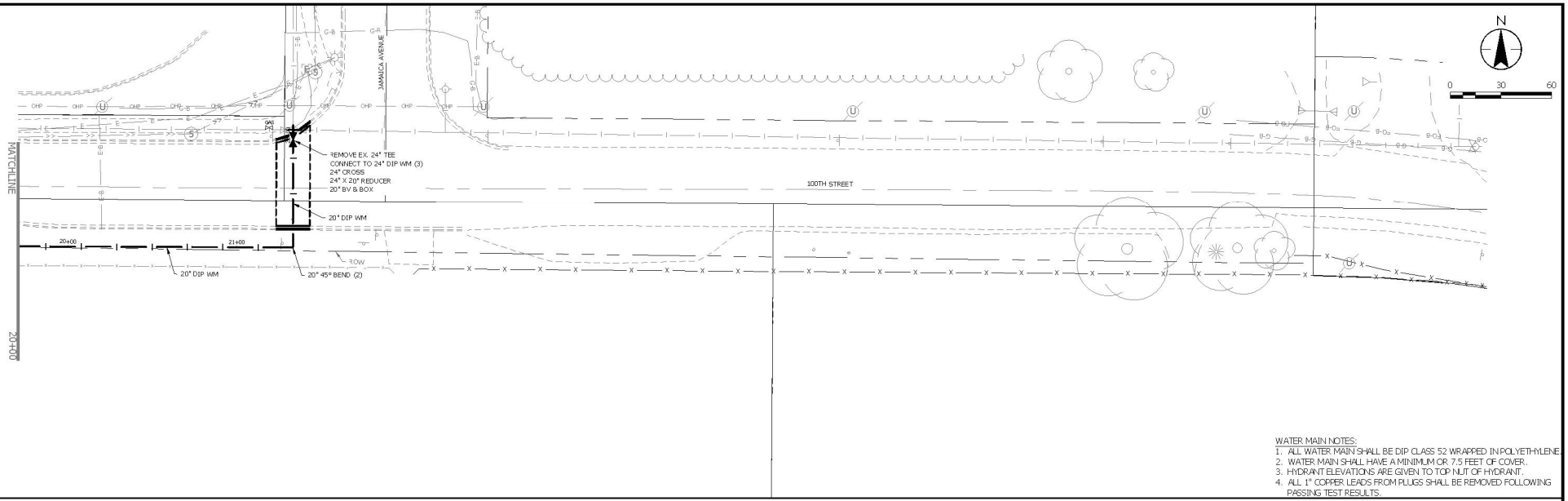
WATER MAIN PLAN & PROFILE
100TH STREET S.

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

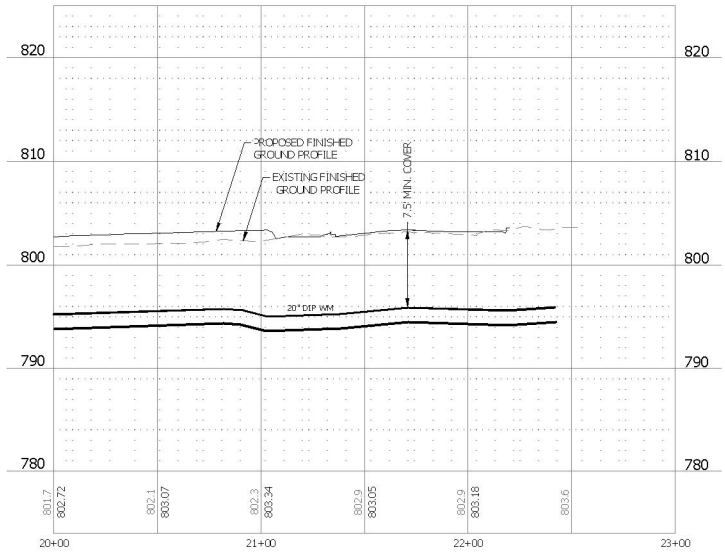
SHEET 37 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWINGS. ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE REPORTED TO STANTEC IMMEDIATELY. THE CONTRACTOR IS TO ASSUME ANY AND ALL RISK ASSOCIATED WITH CONSTRUCTION WITHOUT A COMPLETE SET OF REVIEWED AND APPROVED DRAWINGS.

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Drawing name: U:\193805466\CAD\Civil\Plan Sheets\193805466_C401.dwg
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WATER MAIN NOTES:
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SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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100TH STREET S.

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

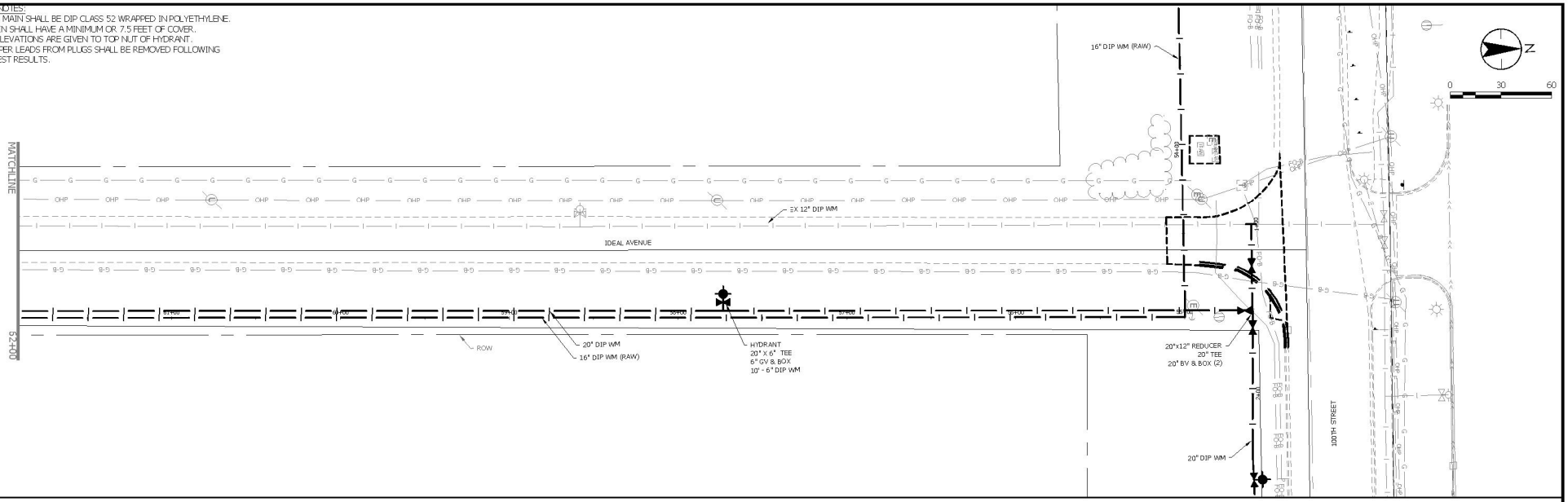
SHEET 38 OF 42

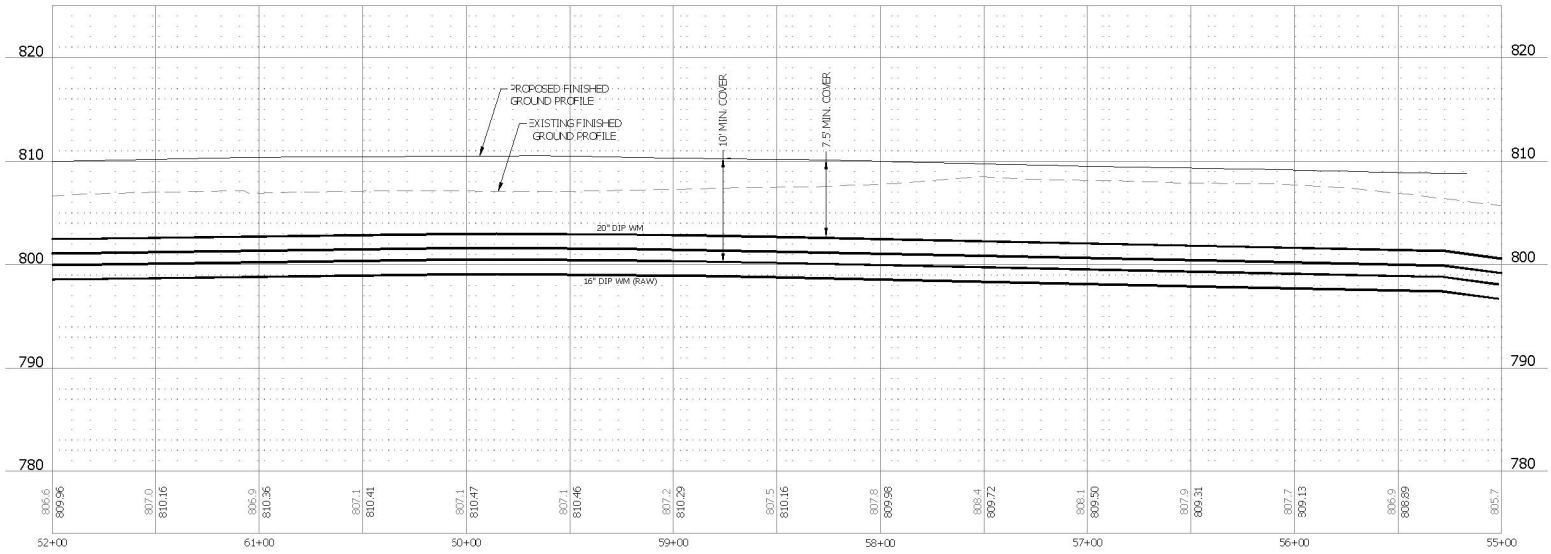
THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING - ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL REVIEW AND COORDINATE ALL SHOP DRAWINGS AND FIELD LAYOUT WITH ALL WORK AND DIMENSIONS REQUIRED BY THE CONTRACT DOCUMENTS. SHOP DRAWINGS ARE NOT CONSIDERED CONTRACT DOCUMENTS.

Plot Date: 02/25/2022 - 11:00am
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WATER MAIN NOTES:

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NO	DATE	APPR	REVISION

SURVEY	PB,W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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WATER MAIN PLAN & PROFILE
IDEAL AVENUE S.

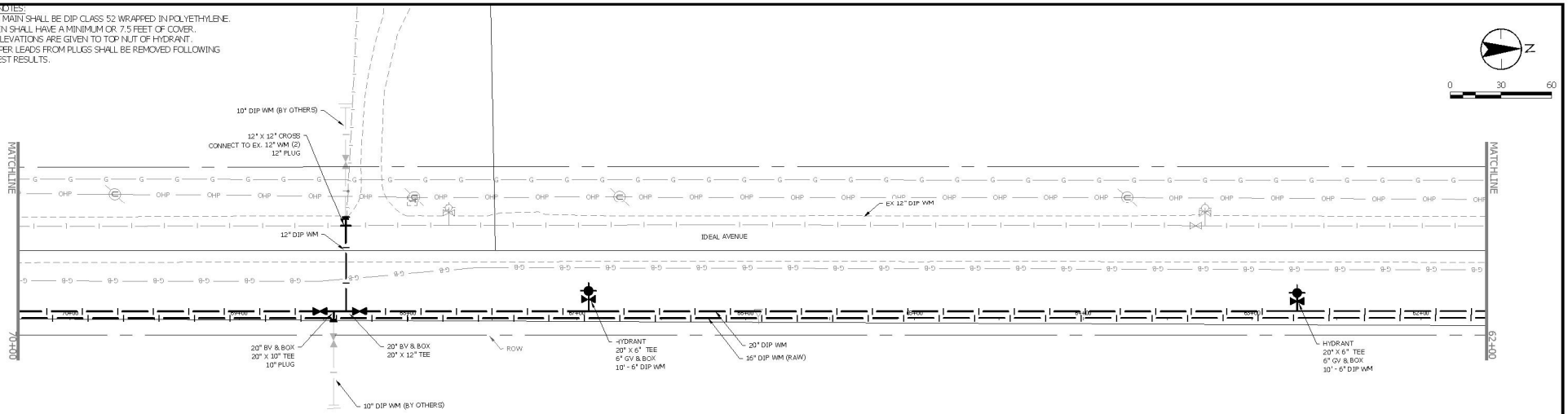
CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

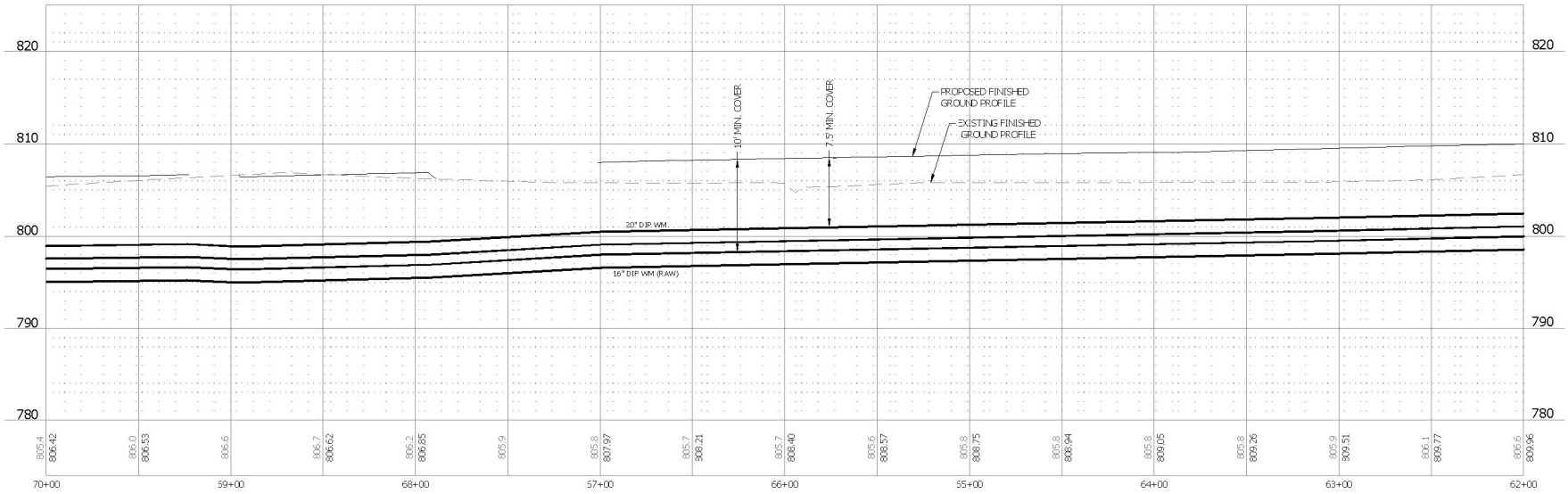
SHEET 39
OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING - ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY. THE CONTRACTOR IS TO ASSUME ANY AND ALL RISK ASSOCIATED WITH CONSTRUCTION TO ANY INCORRECT DIMENSIONS AFFECTED BY CHANGES MADE TO THE DRAWINGS AFTER THEY HAVE BEEN ISSUED FOR CONSTRUCTION

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NO	DATE	APPR	REVISION

SURVEY	FB W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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PRINT NAME: DAVID R. SANOCKI

SIGNATURE:

DATE: 2/25/2022 LIC. NO. 49973

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WATER MAIN PLAN & PROFILE
IDEAL AVENUE S.

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

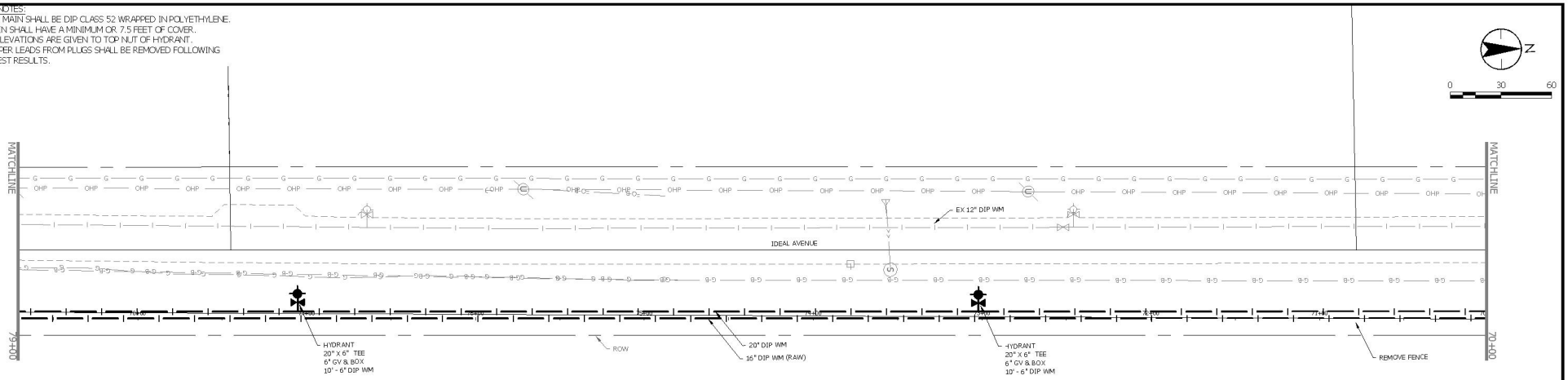
SHEET 40 OF 42

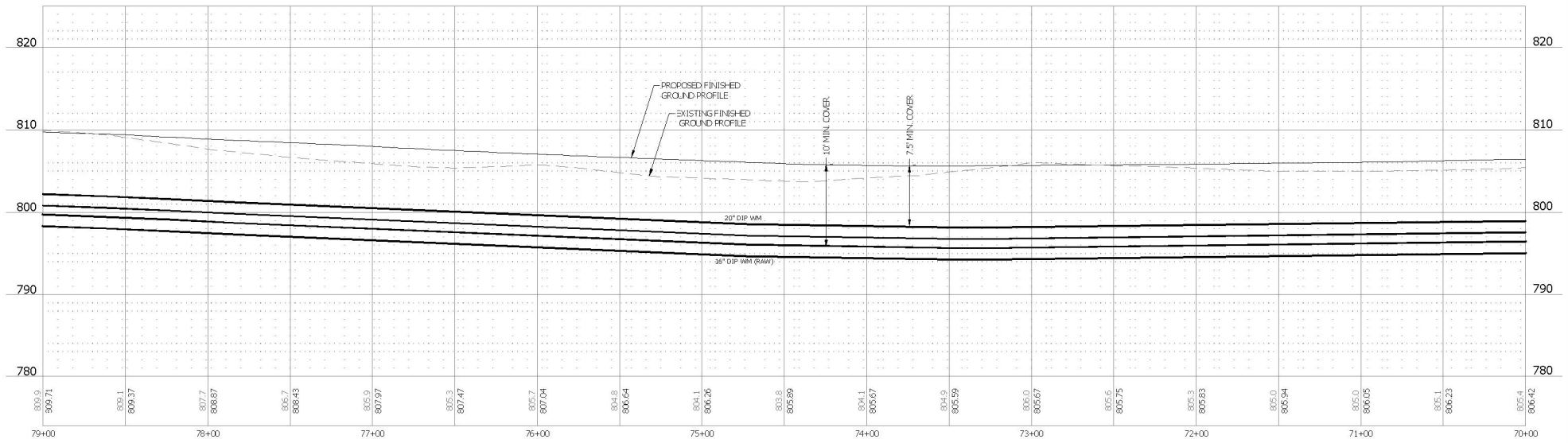
THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC IMMEDIATELY. THE CONTRACTOR IS TO ASSUME ANY AND ALL RISK ASSOCIATED WITH CONSTRUCTION TO ANY INCORRECT DIMENSIONS AFFECTED BY CHANGES MADE TO THE DRAWINGS AFTER THEY HAVE BEEN ISSUED IN FINAL FORM. ALL REPRODUCTIONS OF THIS DRAWING ARE TO BE CHECKED AGAINST THE ORIGINAL ISSUED DRAWING.

Plot Date: 02/25/2022 - 11:01 am
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Xrefs: 193805466SITE, 193805466SITE, 193805466SITE,

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWINGS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
THE CONTRACTOR TO ALL DESIGN AND DRAWINGS AS ARE INSTRUMENTS OF SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT AND, UNLESS OTHERWISE PROVIDED, STANTEC SHALL BE DEEMED THE AUTHOR OF THESE DOCUMENTS AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT.

WATER MAIN NOTES:
1. ALL WATER MAIN SHALL BE DIP CLASS 52 WRAPPED IN POLYETHYLENE.
2. WATER MAIN SHALL HAVE A MINIMUM OF 7.5 FEET OF COVER.
3. HYDRANT ELEVATIONS ARE GIVEN TO TOP NUT OF HYDRANT.
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NO	DATE	APPR	REVISION

SURVEY	PB.W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

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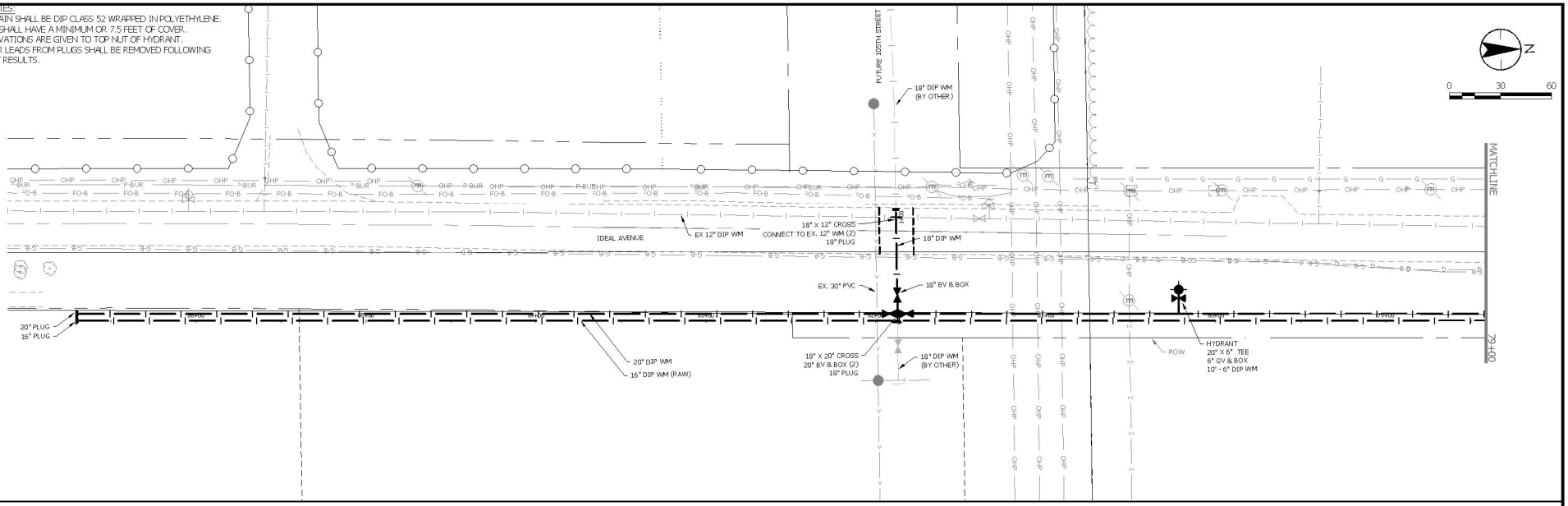
WATER MAIN PLAN & PROFILE
IDEAL AVENUE S.

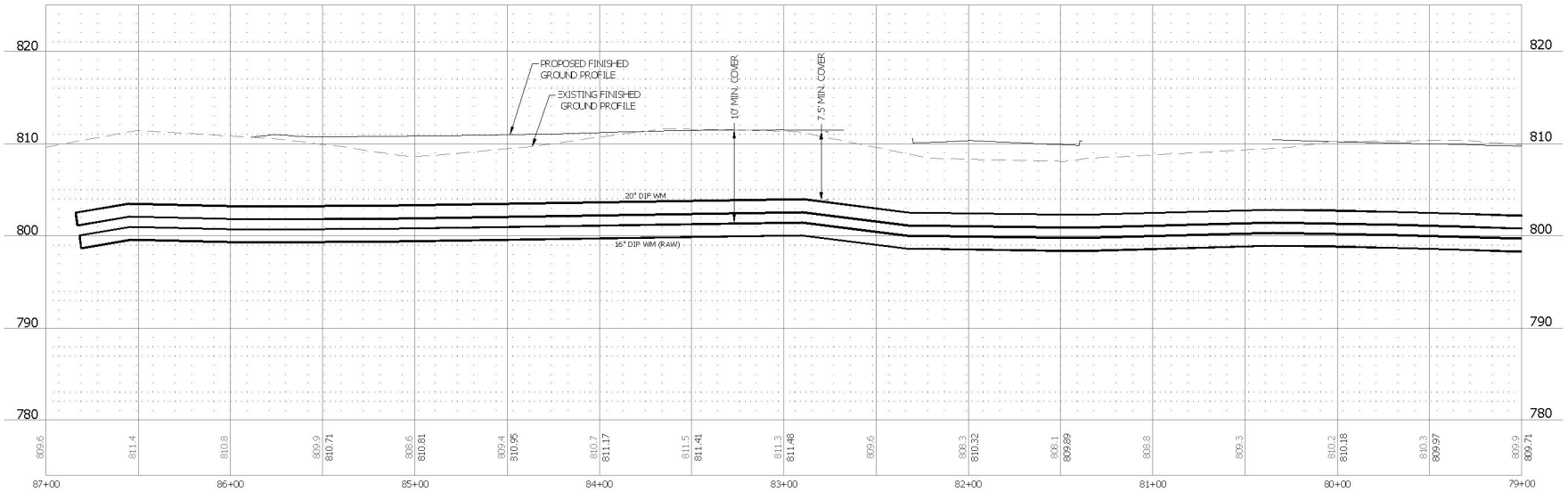
CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

SHEET 41 OF 42

Plot Date: 02/25/2022 - 11:05am
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WATER MAIN NOTES:
1. ALL WATER MAIN SHALL BE DIP CLASS 52 WRAPPED IN POLYETHYLENE.
2. WATER MAIN SHALL HAVE A MINIMUM OR 7.5 FEET OF COVER.
3. HYDRANT ELEVATIONS ARE GIVEN TO TOP NUT OF HYDRANT.
4. ALL 1" COPPER LEADS FROM PLUGS SHALL BE REMOVED FOLLOWING PASSING TEST RESULTS.





NO	DATE	APPR	REVISION

SURVEY	FB:W
DRAWN	EPV
DESIGNED	DRS
CHECKED	---
APPROVED	DRS
PROJ. NO.	193805466

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

PRINT NAME: DAVID R. SANOCKI

SIGNATURE:

DATE: 2/25/2022 LIC. NO. 49973

Cottage Grove
Where Pride and Prosperity Meet

Stantec
733 Marquette Ave Suite 1000
Minneapolis, MN 55402-2309
www.stantec.com

WATER MAIN PLAN & PROFILE
IDEAL AVENUE S.

CITY OF COTTAGE GROVE, MN
RAW WATER MAIN EXTENSION IMPROVEMENTS
PHASE 1 & 2

SHEET 42 OF 42

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC IMMEDIATELY. THIS DRAWING AND ITS CONTENT IS COPYRIGHT TO ALL DESIGN AND DRAWINGS ARE THE PROPERTY OF STANTEC. REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THOSE AUTHORIZED BY STANTEC IS FORBIDDEN.

Plot Date: 02/25/2022 - 11:03am
Drawing name: I:\N\193805466\CAD\Dwg\Plan Sheets\193805466_C401.dwg
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City Council Action Request

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Meeting Date	3/2/2022
Department	Public Works
Agenda Category	Consent Agenda
Title	Parkview Pointe Final Streets Improvements – Approve Plans & Specifications and Establish Bid Date
Staff Recommendation	Adopt Resolution 2022-033 approving the plans and specifications and establishing a March 31, 2022, bid date for the Parkview Pointe Final Streets Improvements.
Budget Implication	$225,000 - Assessments
Attachments	Parkview Pointe Final Streets CC Memo.tif 3.81MB Parkview Pointe Final Streets Resolution.tif 2.06MB Parkview Pointe Final Streets Plans & Specs.tif 34.94MB

To: Honorable Mayor and City Council
Jennifer Levitt, P.E., City Administrator

From: Ryan Burfeind, P.E., Public Works Director/City Engineer

Date: February 25, 2022

Re: Parkview Pointe Final Streets Improvements – Approve Plans & Specifications and Establish Bid Date

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Background

The City is currently working with Summergate Companies on a 60-lot development known as Parkview Pointe. This development is located along the north side of Military Road, west of the South Washington Watershed District (SWWD) Central Draw Storage Facility (CDSF). For this project, the developer petitioned the City to complete the utility and street construction for Parkview Pointe through the Chapter 429 assessment process.

Following the City's development practices, this neighborhood was constructed without the pavement wear course, with a bituminous wedge placed to protect the concrete curb and gutter. The final step in the public improvement process is the construction of the wear course and the replacement of damage curb & gutter and sidewalk. This step is taken once either 90 percent of homes in the development have been built or after three years. Currently the 90 percent threshold has been met.

Discussion

Plans and Specifications

Plans and specifications have been prepared in accordance with City standards and specifications. The engineer's estimate for the construction of the improvements is $225,000.

Bid Date

A bid date of March 31, 2022, at 10:00 a.m. will provide ample time to provide required notification to contractors.

Recommendation

It is recommended that the City Council adopt the attached resolution approving the plans and specifications and establishing a March 31, 2022, bid date for the Parkview Pointe Final Streets Improvements.

CITY OF COTTAGE GROVE, MINNESOTA
CITY COUNCIL
RESOLUTION 2022-XXX

RESOLUTION APPROVING THE PLANS AND SPECIFICATIONS AND ESTABLISHING A BID DATE FOR THE PARKVIEW POINT FINAL STREETS IMPROVEMENTS PROJECT

WHEREAS, plans and specifications have been prepared in accordance with the City Standards and Specifications for the Parkview Ponte Final Streets Improvements; and

WHEREAS, a bid date has been established for March 31, 2022; and

WHEREAS, the City Engineer has presented such plans and specifications to the City Council for approval.

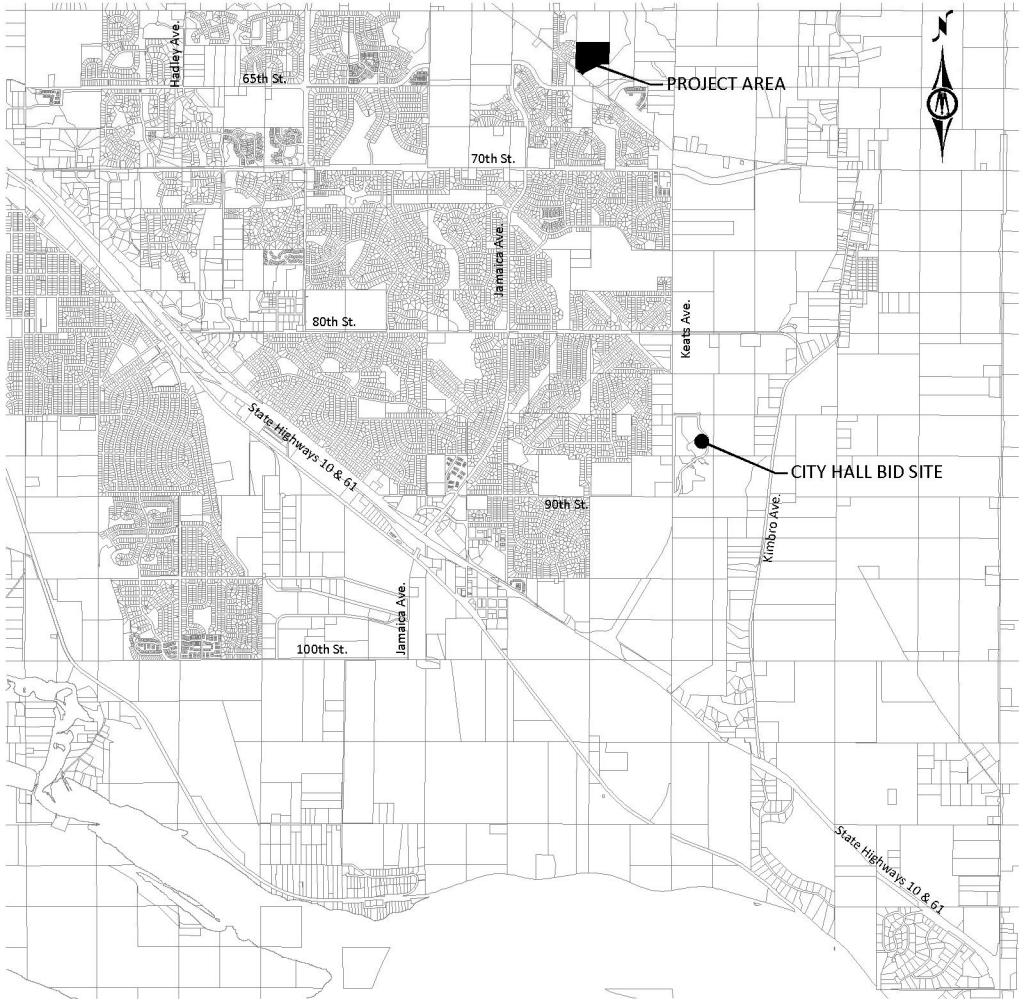
NOW, THEREFORE, BE IT RESOLVED, by the City Council of the City of Cottage Grove, County of Washington, State of Minnesota, approves the plans and specifications and establishes a bid date of March 31, 2022, for the Parkview Pointe Final Streets Improvements Project.

Passed this 2nd day of March, 2022.

_____
Myron Bailey, Mayor

Attest:

_____
Joe Fischbach, City Clerk



MAP OF THE
CITY OF COTTAGE GROVE
WASHINGTON COUNTY, MN

PROJECT CONTROL NOTES:

1. ALL COORDINATES ARE WASHINGTON COUNTY COORDINATE SYSTEM
2. HORIZONTAL COORDINATES ARE BASED ON GEODETIC POSITION NAD83, 1986 ADJUSTMENT
3. VERTICAL ELEVATIONS ARE BASED ON MNDOT NAVD 88

Cottage Grove
Where Pride and Prosperity Meet

PARKVIEW POINTE
2022 FINAL STREET IMPROVEMENTS
BOLTON & MENK PROJECT NUMBER 0N1.126480

Sheet Number	Sheet Title
G0.01	TITLE SHEET
G0.02	LEGEND
G2.01	LOCATION PLAN
C1.01	TYPICAL SECTIONS
C2.01	TEMPORARY AND PERMANENT EROSION CONTROL
C6.01-C6.03	STREET IMPROVEMENTS
C6.04	INTERSECTION DETAILS
C6.05	CUL-DE-SAC DETAIL
C8.01-C8.06	MNDOT STANDARD PLAN 5-297.250 - PEDESTRIAN CURB RAMP DETAILS
C8.07-C8.08	STANDARD DETAILS

THIS PLAN SET CONTAINS 18 SHEETS.

MYRON BAILEY	MAYOR
DAVID THIEDE	COUNCIL MEMBER
STEVE DENNIS	COUNCIL MEMBER
JUSTIN OLSEN	COUNCIL MEMBER
TONY KHAMBATA	COUNCIL MEMBER
JENNIFER LEVITT	CITY ADMINISTRATOR
RYAN BURFEIND	DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
KORINE LAND	ATTORNEY

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LIC. NO. 44576 DATE 02/22/2022

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Cottage Grove
Where Pride and Prosperity Meet

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CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
TITLE SHEET

SHEET G0.01

EXISTING TOPOGRAPHIC SYMBOLS

- ACCESS GRATE
- AIR CONDITION UNIT
- ANTENNA
- AUTO SPRINKLER CONNECTION
- BARRICADE PERMANENT
- BASKETBALL POST
- BENCH
- BIRD FEEDER
- BOLLARD
- BUSH
- CATCH BASIN RECTANGULAR CASTING
- CATCH BASIN CIRCULAR CASTING
- CURB STOP
- CLEAN OUT
- CULVERT END
- DRINKING FOUNTAIN
- DOWN SPOUT
- FILL PIPE
- FIRE HYDRANT
- FLAG POLE
- FLARED END / APRON
- FUEL PUMP
- GRILL
- GUY WIRE ANCHOR
- HANDHOLE
- HANDICAP SPACE
- IRRIGATION SPRINKLER HEAD
- IRRIGATION VALVE BOX
- LIFT STATION CONTROL PANEL
- LIFT STATION
- LIGHT ON POLE
- LIGHT-GROUND
- MAILBOX
- MANHOLE-COMMUNICATION
- MANHOLE-ELECTRIC
- MANHOLE-GAS
- MANHOLE-HEAT
- MANHOLE-SANITARY SEWER
- MANHOLE-STORM SEWER
- MANHOLE-UTILITY
- MANHOLE-WATER
- METER
- ORDER MICROPHONE
- PARKING METER
- PAVEMENT MARKING
- PEDESTAL-COMMUNICATION
- PEDESTAL-ELECTRIC
- PEDESTRIAN PUSH BUTTON
- PICNIC TABLE
- POLE-UTILITY
- POLE-BRACE
- POST
- RAILROAD SIGNAL POLE
- REGULATION STATION GAS
- SATELLITE DISH
- SIGN NON TRAFFIC
- SIGN TRAFFIC
- SIGNAL CONTROL CABINET
- SOIL BORING
- SIREN
- TELEPHONE BOOTH
- TILE INLET
- TILE OUTLET
- TILE RISER
- TRANSFORMER-ELECTRIC
- TREE-CONIFEROUS
- TREE-DEAD
- TREE-DECIDUOUS
- TREE STUMP
- TRAFFIC ARM BARRIER
- TRAFFIC SIGNAL
- TRASH CAN
- UTILITY MARKER
- VALVE
- VALVE POST INDICATOR
- VALVE VAULT
- VAULT
- VENT PIPE
- WATER SPIGOT
- WELL
- WETLAND DELINEATED MARKER
- WETLAND
- WET WELL
- YARD HYDRANT

PROPOSED TOPOGRAPHIC SYMBOLS

- CLEANOUT
- MANHOLE
- LIFT STATION
- STORM SEWER CIRCULAR CASTING
- STORM SEWER RECTANGULAR CASTING
- STORM SEWER FLARED END / APRON
- STORM SEWER OUTLET STRUCTURE
- STORM SEWER OVERFLOW STRUCTURE
- CURB BOX
- FIRE HYDRANT
- WATER VALVE
- WATER REDUCER
- WATER BEND
- WATER TEE
- WATER CROSS
- WATER SLEEVE
- WATER CAP / PLUG
- RIP RAP
- DRAINAGE FLOW
- TRAFFIC SIGNS

SURVEY SYMBOLS

- BENCHMARK LOCATION
- CONTROL POINT
- MONUMENT FOUND
- CAST IRON MONUMENT
- STONE MONUMENT

EXISTING TOPOGRAPHIC LINES

- RETAINING WALL
- FENCE
- FENCE-DECORATIVE
- GUARD RAIL
- TREE LINE
- BUSH LINE

SURVEY LINES

- CONTROLLED ACCESS
- BOUNDARY
- CENTERLINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- EXISTING LOT LINE
- PROPOSED LOT LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- SETBACK LINE
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- TEMPORARY EASEMENT

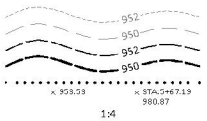
EXISTING UTILITY LINES

- FORCEMAIN
- SANITARY SEWER
- SANITARY SERVICE
- STORM SEWER
- STORM SEWER DRAIN TILE
- WATERMAIN
- WATER SERVICE

PROPOSED UTILITY LINES

- FORCEMAIN
- SANITARY SEWER
- SANITARY SERVICE
- STORM SEWER
- STORM SEWER DRAIN TILE
- WATERMAIN
- WATER SERVICE
- PIPE CASING

GRADING INFORMATION



- EXISTING CONTOUR MINOR
- EXISTING CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED GRADING LIMITS / SLOPE LIMITS
- PROPOSED SPOT ELEVATION
- RISE:RUN (SLOPE)

HATCH PATTERNS

- BITUMINOUS
- CONCRETE
- GRAVEL

EXISTING PRIVATE UTILITY LINES

NOTE:
EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL, 1-800-252-1166 OR 651-454-0002.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA"

- UNDERGROUND FIBER OPTIC
- UNDERGROUND ELECTRIC
- UNDERGROUND GAS
- UNDERGROUND COMMUNICATION
- OVERHEAD ELECTRIC
- OVERHEAD COMMUNICATION
- OVERHEAD UTILITY

UTILITIES IDENTIFIED WITH A QUALITY LEVEL :

LINE TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL
EXAMPLE: GA GA UNDERGROUND GAS, QUALITY LEVEL A
UTILITY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN CI/ASCE 38-02.

UTILITY QUALITY LEVELS:

QUALITY LEVEL D: PROVIDES THE MOST BASIC LEVEL OF INFORMATION. IT INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS. RECORDS MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICES MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASES, CONSTRUCTION PLANS, ETC.

QUALITY LEVEL C: INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND METERS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO CREATE COMPOSITE DRAWINGS. INCLUDES QUALITY LEVEL D ACTIVITIES.

QUALITY LEVEL B: INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND COLLECTING THE INFORMATION THROUGH A SURVEY METHOD. INCLUDES QUALITY LEVEL C AND D TASKS.

QUALITY LEVEL A: PROVIDES THE HIGHEST LEVEL OF ACCURACY. IT INVOLVES LOCATING OR POTHOLING UTILITIES AS WELL AS ACTIVITIES IN QUALITY LEVELS B, C, AND D. THE LOCATED FACILITY INFORMATION IS SURVEYED AND MAPPED AND THE DATA PROVIDES PRECISE PLAN AND PROFILE INFORMATION.

ABBREVIATIONS

A	ALGEBRAIC DIFFERENCE	GRAV	GRAVEL	RSC	RIGID STEEL CONDUIT
ADJ	ADJUST	GU	GUTTER	RT	RIGHT
ALT	ALTERNATE	GV	GATE VALVE	SAN	SANITARY SEWER
B-B	BACK TO BACK	HDPE	HIGH DENSITY POLYETHYLENE	SCH	SCHEDULE
BIT	BITUMINOUS	HH	HANDHOLE	SERV	SERVICE
BLDG	BUILDING	HP	HIGH POINT	SHLD	SHOULDER
BMP	BEST MANAGEMENT PRACTICE	HWL	HIGH WATER LEVEL	STA	STATION
BR	BEGIN RADIUS	HYD	HYDRANT	STD	STANDARD
BV	BUTTERFLY VALVE	I	INVERT	STM	STORM SEWER
CB	CATCH BASIN	K	CURVE COEFFICIENT	TC	TOP OF CURB
C&G	CURB AND GUTTER	L	LENGTH	TE	TEMPORARY EASEMENT
CIP	CAST IRON PIPE	LO	LOWEST OPENING	TEMP	TEMPORARY
CIPP	CURED-IN-PLACE PIPE	LP	LOW POINT	TNH	TOP NUT HYDRANT
CL	CENTER LINE	LT	LEFT	TP	TOP OF PIPE
CL.	CLASS	MAX	MAXIMUM	TYP	TYPICAL
CLVT	CULVERT	MH	MANHOLE	VCP	VITRIFIED CLAY PIPE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	VERT	VERTICAL
C.O.	CHANGE ORDER	MR	MID RADIUS	VPC	VERTICAL POINT OF CURVE
COMM	COMMUNICATION	NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INTERSECTION
CON	CONCRETE	NMC	NON-METALLIC CONDUIT	VPT	VERTICAL POINT OF TANGENT
CSP	CORRUGATED STEEL PIPE	NTS	NOT TO SCALE	WM	WATERMAIN
DIA	DIAMETER	NWL	NORMAL WATER LEVEL		
DIP	DUCTILE IRON PIPE	OHW	ORDINARY HIGH WATER LEVEL		
DWY	DRIVEWAY	PC	POINT OF CURVE	AC	ACRES
E	EXTERNAL CURVE DISTANCE	PCC	POINT OF COMPOUND CURVE	CF	CUBIC FEET
ELEC	ELECTRIC	PE	PERMANENT EASEMENT	CV	COMPACTED VOLUME
ELEV	ELEVATION	PED	PEDESTRIAN, PEDESTAL	CY	CUBIC YARD
EOF	EMERGENCY OVERFLOW	PERF	PERFORATED PIPE	EA	EACH
ER	END RADIUS	PERM	PERMANENT	EV	EXCAVATED VOLUME
ESMT	EASEMENT	PI	POINT OF INTERSECTION	LB	POUND
EX	EXISTING	PL	PROPERTY LINE	LF	LINEAR FEET
FES	FLARED END SECTION	PRC	POINT OF REVERSE CURVE	LS	LUMP SUM
F-F	FACE TO FACE	PT	POINT OF TANGENT	LV	LOOSE VOLUME
FF	FINISHED FLOOR	PVC	POLYVINYL CHLORIDE PIPE	SF	SQUARE FEET
F&I	FURNISH AND INSTALL	PVMT	PAVEMENT	SV	STOCKPILE VOLUME
FM	FORCEMAIN	R	RADIUS	SY	SQUARE YARD
FO	FIBER OPTIC	R/W	RIGHT-OF-WAY		
F.O.	FIELD ORDER	RCP	REINFORCED CONCRETE PIPE		
GRAN	GRANULAR	RET	RETAINING		

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MICHAEL J BOEK
LIC. NO. 44576 DATE 02/22/2022

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Where Pride and Prosperity Meet

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CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
LEGEND

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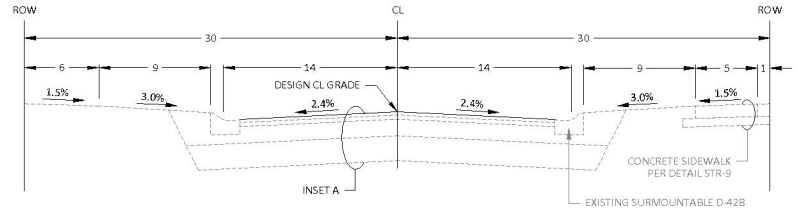
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CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
LOCATION PLAN

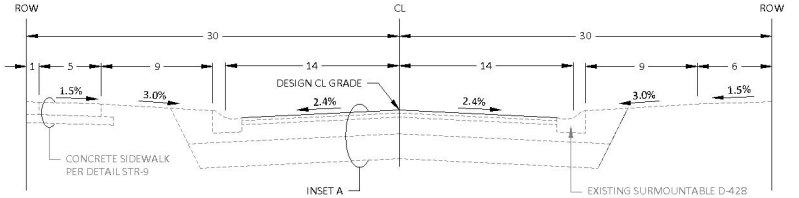
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A TYPICAL PAVEMENT SECTION

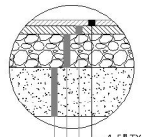
JENSEN AVE
0+00 TO 1+75 - 2" SAND
2+00 TO 3+50 - 1" SAND
64TH STREET



B TYPICAL PAVEMENT SECTION

63RD STREET
JEWEL BAY

INSET A - BITUMINOUS STREET



1.5" TYPE SP 9.5 WEARING COURSE MIXTURE (3, C) [SPWEA330C] - SPECIAL
EXISTING 2.0" TYPE SP 9.5 WEARING COURSE MIXTURE (3, C)
[SPWEA330C]
EXISTING 8" CLASS 5 AGGREGATE BASE 100% CRUSHED LIMESTONE
EXISTING SUBGRADE EXCAVATION AND AGGREGATE BACKFILL AS
DIRECTED BY THE ENGINEER (IF NECESSARY, 12"MIN. THICKNESS
REQUIRED)

TYPICAL CONSTRUCTION NOTES:
METHOD 1

1. PROVIDE CONSTRUCTION SIGNAGE AT ENTRANCES TO SITE: "CONSTRUCTION ZONE" (INCIDENTAL TO TRAFFIC CONTROL BID ITEM).
2. REMOVE/MILL BITUMINOUS WEDGE ALONG CONCRETE CURB AND GUTTER. PROTECT EX CURB FROM DAMAGE (INCIDENTAL).
3. REMOVE AND REPLACE DAMAGED CONCRETE CURB & GUTTER AND CONCRETE SIDEWALK PANELS AS MARKED IN THE FIELD BY THE ENGINEER. PROTECT EXISTING DRIVEWAYS ADJACENT TO PANELS REMOVED.
4. REMOVE AND REPLACE DAMAGED BITUMINOUS LOWER WEARING COURSE SURFACE BELOW WEDGE AS DIRECTED BY ENGINEER.
5. IF DRIVEWAYS ARE DAMAGED AS DETERMINED BY THE ENGINEER BY CURB REPLACEMENT PROCESS PATCH DRIVEWAYS PER DETAILS STR-20/C8.07 AS APPROPRIATE.
6. ADJUST MANHOLE CASTINGS WITH STEEL ADJUSTING RING IF THE FOLLOWING CRITERIA ARE MET:
   A. THERE IS CURRENTLY NOT SETTLEMENT AROUND THE CASTING.
   B. THERE IS CURRENTLY NO SKIN-PATCH AROUND THE CASTING.
   C. THE CURRENT STRUCTURE ELEVATION ALLOWS EITHER A STEEL RING BETWEEN 1 INCH AND 2 INCH IN HEIGHT TO BE INSTALLED TO MEET THE TOLERANCE REQUIREMENTS IN THE CITY STANDARD SPECIFICATIONS.
7. ADJUST STRUCTURES WITH HDPE ADJUSTING RINGS PER DETAILS STR-23/C8.07.
8. ADJUST ALL VALVE BOXES PER DETAIL WAT-3/C8.08.
9. RESTORE ALL DISTURBED TURF AREAS WITH 6" (MIN.) TOPSOIL/COMPOST MIXTURE, SEED (MnDOT MIX 25-151), FERTILIZER AND HYDRAULIC MATRIX, TYPE MULCH.
10. PAVE BITUMINOUS WEARING COURSE, 1½" THICK.

GENERAL NOTES:
1. ANY REQUIRED ADJUSTMENT OF VALVES OUTSIDE OF THE PAVEMENT WILL BE CONSIDERED INCIDENTAL TO THE PROJECT.
2. SALVAGE AND REINSTALL SIGNS IF NECESSARY (INCIDENTAL).

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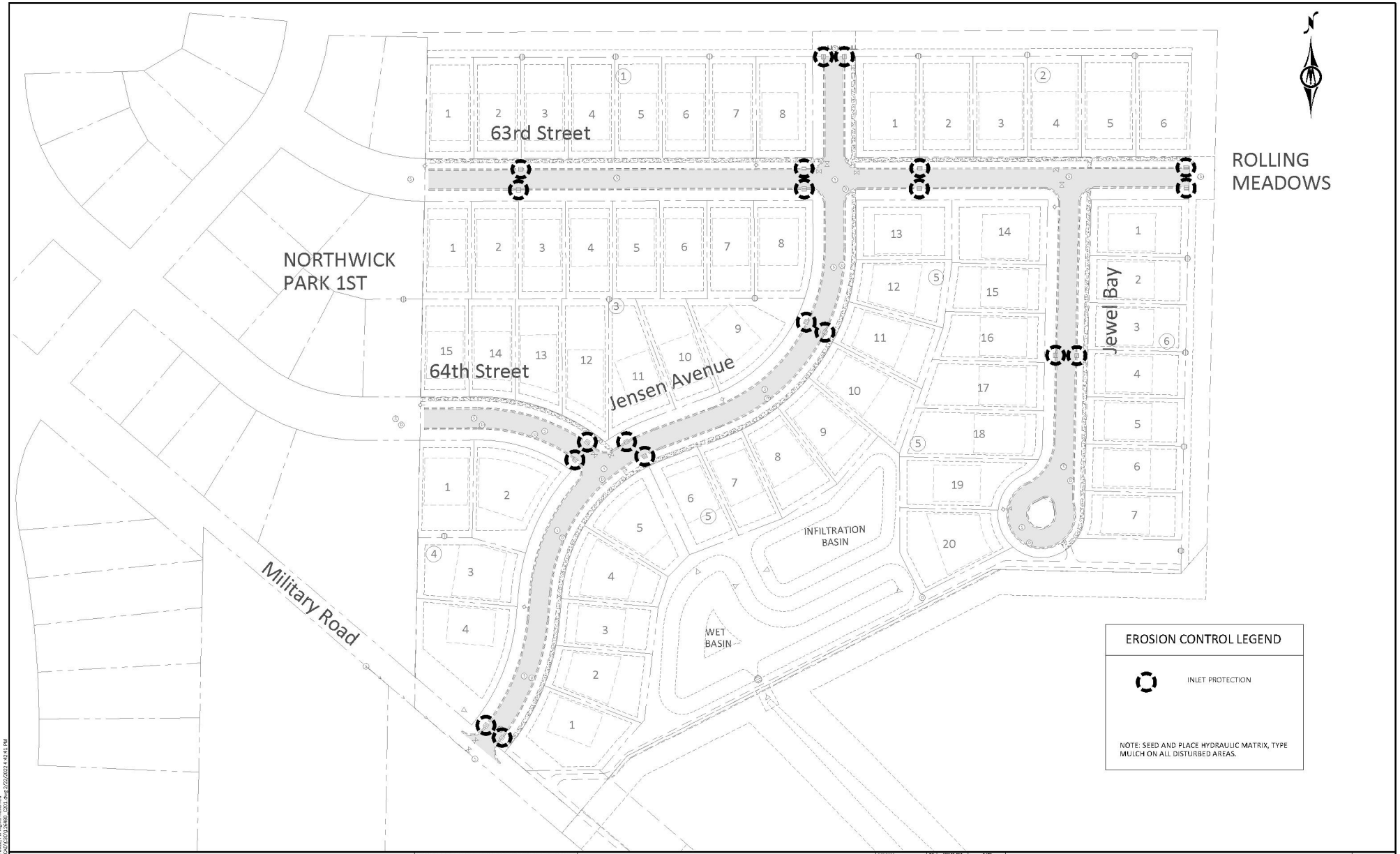
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CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
TYPICAL SECTIONS

SHEET C1.01

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CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
TEMPORARY AND PERMANENT EROSION CONTROL

SHEET C2.01

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NOTES:

1. ADJUST ALL VALVE BOXES WITHIN BITUMINOUS SURFACE PER DETAIL WAT-3/C8.08, INCLUDING NEW BITUMINOUS PATCH.
2. ADJUST ALL MANHOLE CASTINGS WITHIN BITUMINOUS SURFACE WITH STEEL ADJUSTMENT RING IF POSSIBLE, UNLESS NOTED OTHERWISE. IF ADJUSTMENT IS TOO LARGE, ADJUST STRUCTURES WITH HDPE ADJUSTING RINGS PER DETAILS STR-23 /C8.07 AS DIRECTED BY ENGINEER.

TYPICAL CONSTRUCTION NOTES - METHOD 1
SEE SHEET C1.01 FOR NOTES AND TYPICAL SECTIONS.

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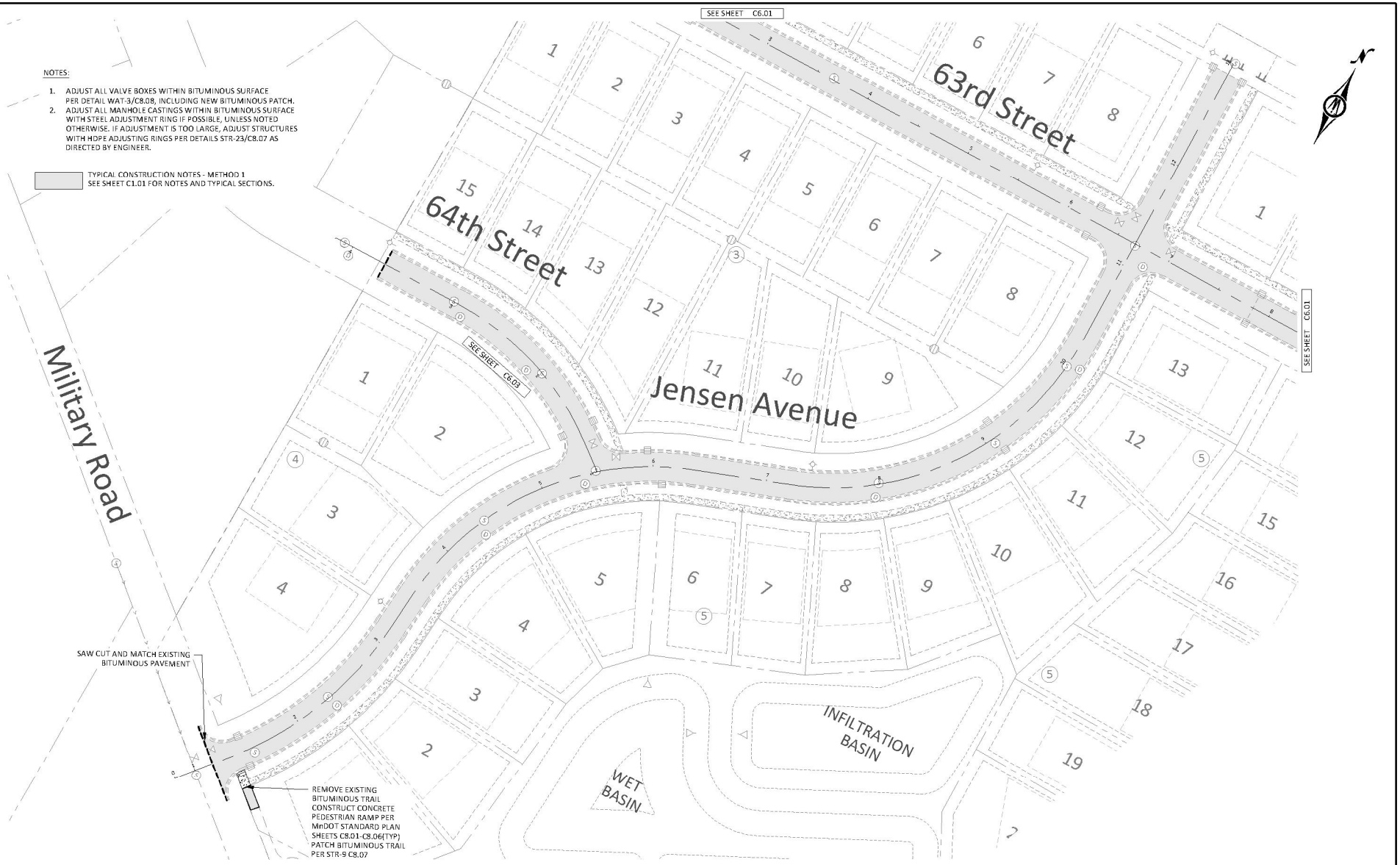
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CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
STREET IMPROVEMENTS -63RD STREET

SHEET
C6.01



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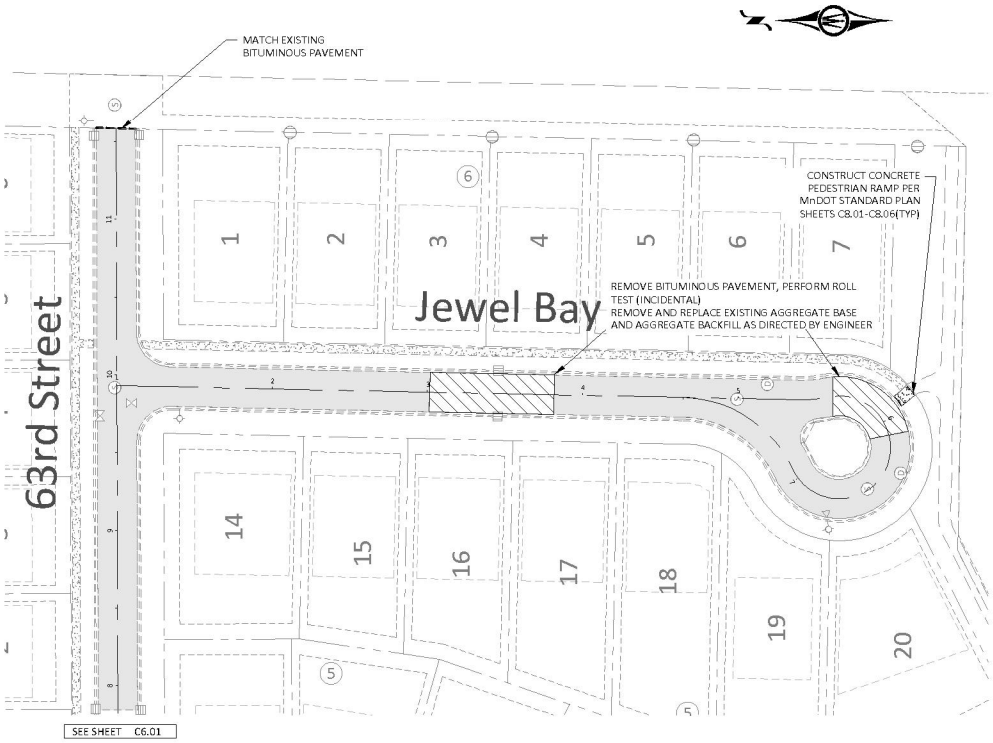
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CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
STREET IMPROVEMENTS - JENSEN AVENUE

SHEET C6.02

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NOTES:

1. ADJUST ALL VALVE BOXES WITHIN BITUMINOUS SURFACE PER DETAIL WAT-3/C8.07, INCLUDING NEW BITUMINOUS PATCH.
2. ADJUST ALL MANHOLE CASTINGS WITHIN BITUMINOUS SURFACE WITH STEEL ADJUSTMENT RING IF POSSIBLE, UNLESS NOTED OTHERWISE. IF ADJUSTMENT IS TOO LARGE, ADJUST STRUCTURES WITH HDPE ADJUSTING RINGS PER DETAILS STR-23 /C8.08 AS DIRECTED BY ENGINEER.

TYPICAL CONSTRUCTION NOTES - METHOD 1
SEE SHEET C1.01 FOR NOTES AND TYPICAL SECTIONS.

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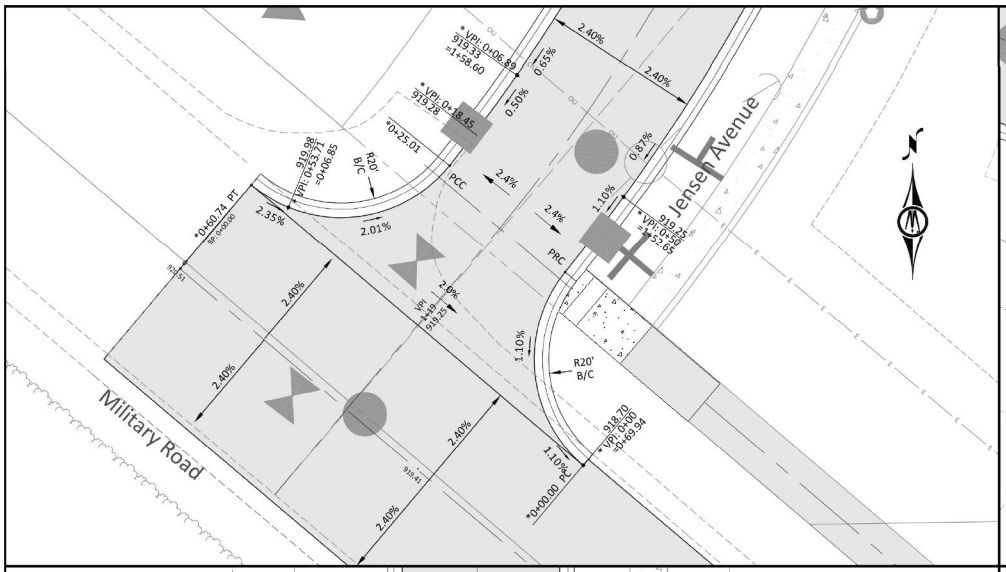
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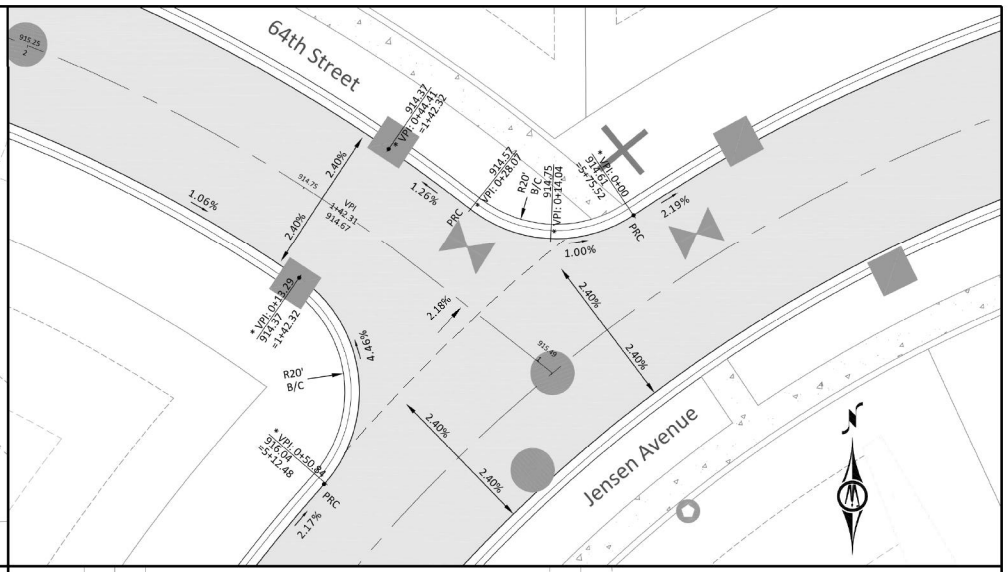
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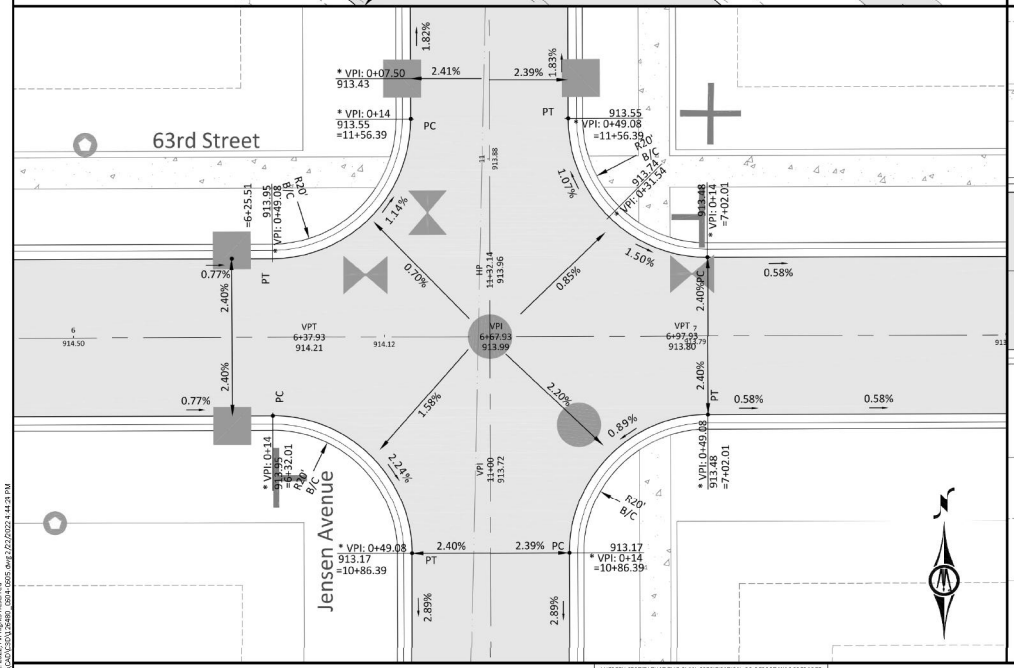
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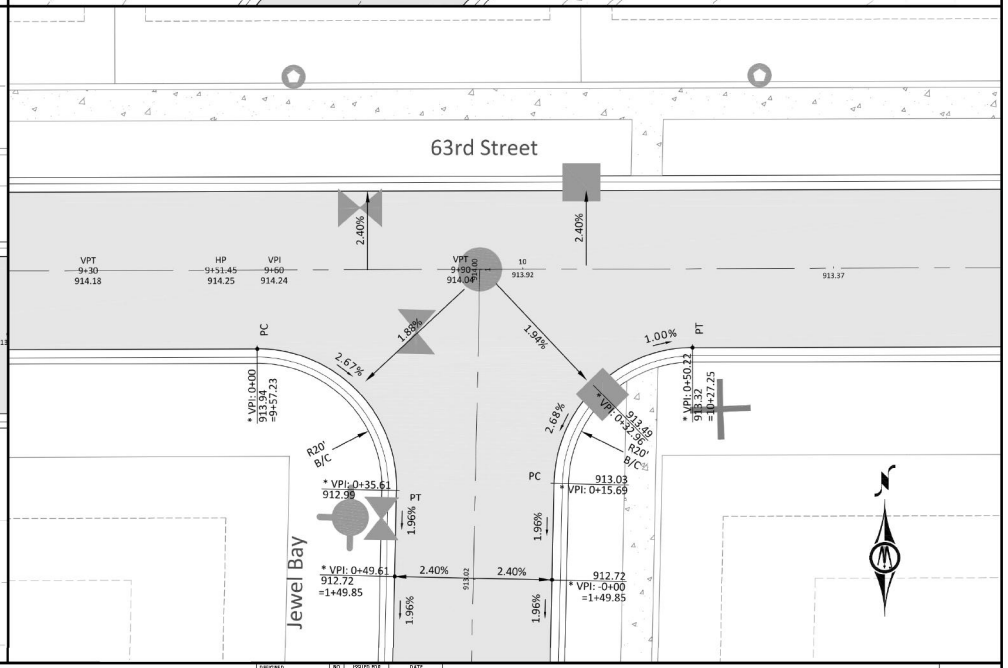
CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
STREET IMPROVEMENTS - 64TH STREET & JEWEL BAY

SHEET C6.03









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HORZ. SCALE 0 10 20 FEET

I HEREBY CERTIFY THAT THE PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL J BOEK
LIC. NO. 44576 DATE 02/22/2022

BOLTON & MENK

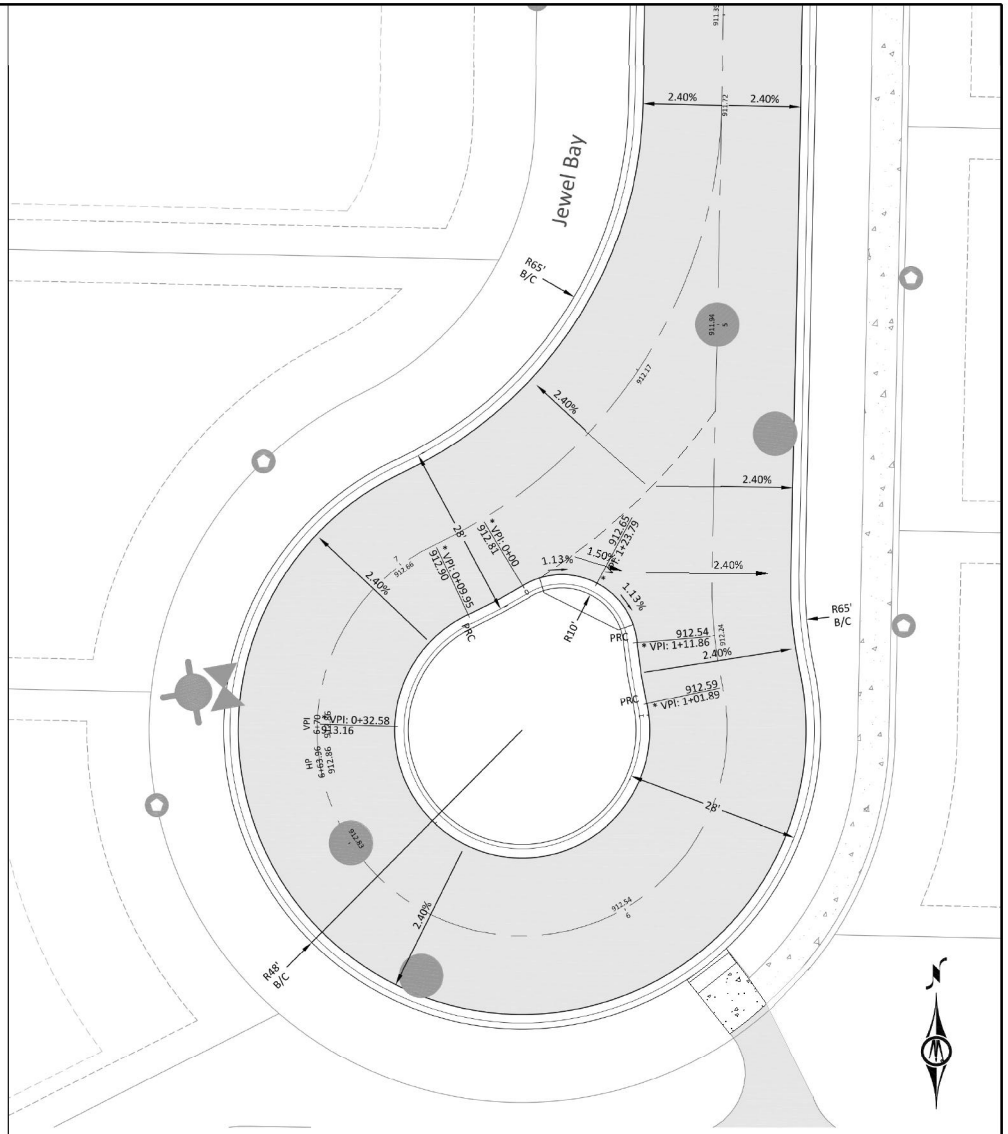
Cottage Grove
Where Pride and Prosperity Meet

DESIGNED	MJB
DRAWN	SGL
CHECKED	JPT
CLIENT PROJ. NO.	0N1.126480

NO.	ISSUED FOR	DATE
	BID	02/22/2022

CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
EXISTING INTERSECTION DETAILS

SHEET C6.04



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SCALE FEET

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MICHAEL J BOEK
LIC. NO. 44576 DATE 02/22/2022

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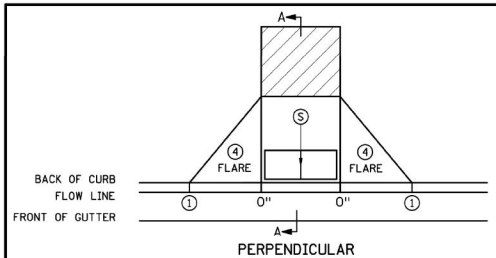
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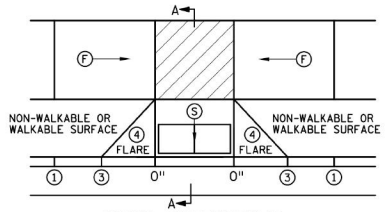
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	BID	02/22/2022

CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
CUL-DE-SAC DETAIL

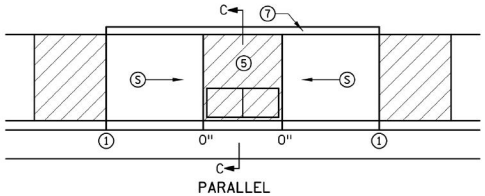
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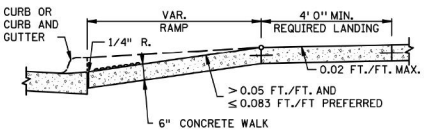
PERPENDICULAR



TIERED PERPENDICULAR

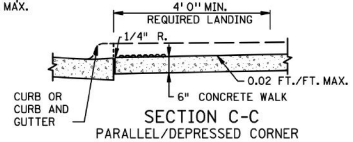


PARALLEL



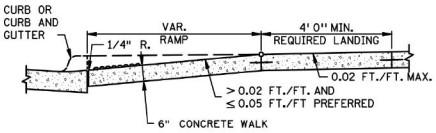
SECTION A-A

PERPENDICULAR/TIERED/DIAGONAL



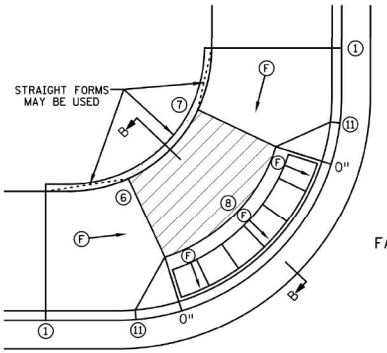
SECTION C-C

PARALLEL/DEPRESSED CORNER

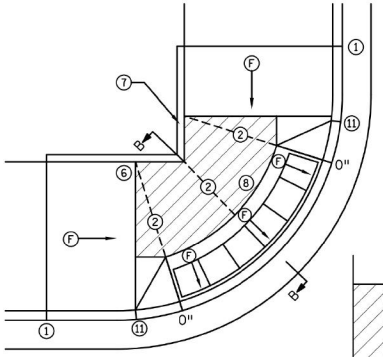


SECTION B-B

FAN

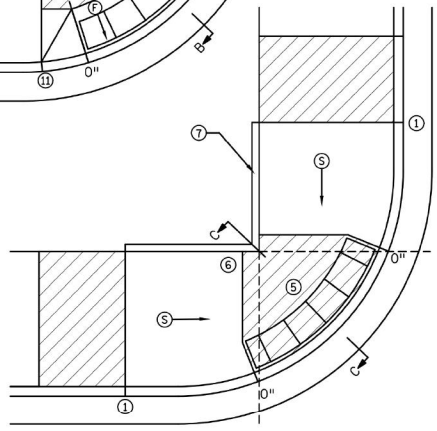


FAN⑩

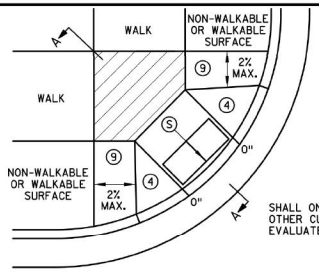


MODIFIED FAN ⑩

USED WHEN RIGHT-OF-WAY IS CONSTRAINED



DEPRESSED CORNER



DIAGONAL

SHALL ONLY BE USED AFTER ALL OTHER CURB RAMP TYPES HAVE BEEN EVALUATED AND DEEMED IMPRACTICAL

NOTES:

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE GREATER THAN 2%.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY APPLICABLE WHEN THE INITIAL RAMP RUNNING SLOPE IS OVER 5.0%.

SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL RUNNING SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR. 1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOPS OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES.

ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL, THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH. (EXCEPT AS STATED IN ⑥ BELOW.

TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONSTRUCTED, ALL INITIAL LANDINGS AT A TOP OF A RAMPED SURFACE (RUNNING SLOPE GREATER THAN 2%) SHALL BE FORMED AND PLACED SEPARATELY IN AN INDEPENDENT CONCRETE POUR. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 OF 6 FOR ALL SEPARATELY POURED INITIAL LANDINGS.

WHEN SIDEWALK IS AT BACK OF CURB, TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.

MAINTAIN POSITIVE BOULEVARD DRAINAGE TO TOP OF CURB.

ALL RAMP TYPES SHOULD HAVE A MINIMUM 3' LONG RAMP LENGTH.

4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN. OF 24" IN THE PATH OF TRAVEL. DETECTABLE WARNING TO COVER THE ENTIRE PAR WIDTH OF SHARED-USE PATHS AND THE ENTIRE PAR WIDTH OF THE WALK WITH THE EXCEPTION OF 3" MAXIMUM ON EACH OUTSIDE EDGE WHICH ENSURES THE DETECTABLE WARNINGS ARE ENCASED IN CONCRETE WHEN ADJACENT TO TURF. WHEN ADJACENT TO CONCRETE FLARES 0" - 3" OFFSET IS ALLOWED.

WHEN DESIGNING OR ORDERING RECTANGULAR DETECTABLE WARNING SURFACES SHOULD BE 6" LESS THAN THE INCOMING PAR. ARC LENGTH OF THE RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN 20 FEET.

RECTANGULAR DETECTABLE WARNINGS SHALL BE SETBACK 3" FROM THE BACK OF CURB. RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB.

① MATCH FULL HEIGHT CURB.

② 4' MINIMUM DEPTH LANDING REQUIRED ACROSS TOP OF RAMP.

③ 3" HIGH CURB WHEN USING A 3' LONG RAMP, 4" HIGH CURB WHEN USING A 4' LONG RAMP.

④ SEE SHEET 4 OF 6, TYPICAL SIDE TREATMENT OPTIONS, FOR DETAILS ON FLARES AND RETURNED CURBS.

⑤ DETECTABLE WARNINGS MAY BE PART OF THE 4' X 4' MIN. LANDING AREA IF IT IS NOT FEASIBLE TO CONSTRUCT THE LANDING OUTSIDE OF THE DETECTABLE WARNING AREA.

⑥ THE GRADE BREAK SHALL BE PERPENDICULAR TO THE BACK OF WALK. THIS WILL ENSURE THAT THE GRADE BREAK IS PERPENDICULAR TO THE DIRECTION OF TRAVEL. (TYPICAL FOR ALL)

⑦ WHEN ADJACENT TO GRASS, GRADING SHALL ALWAYS BE USED WHEN FEASIBLE. V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. WHEN ADJACENT TO PARKING LOTS, CONCRETE OR BITUMINOUS TAPERS LESS THAN 5% RUNNING SLOPE SHOULD BE USED OVER V CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOVAL.

⑧ A 7' MIN TOP RADIUS GRADE BREAK IS REQUIRED TO BE CONSTRUCTIBLE.

⑨ PAVE FULL WALK WIDTH.

⑩ "S" SLOPES ON FANS SHALL ONLY BE USED WHEN ALL OTHER FEASIBLE OPTIONS HAVE BEEN EVALUATED AND DEEMED IMPRACTICAL.

⑪ INTERMEDIATE CURB HEIGHTS TAPER SHALL RISE AT 8-10% TO A MINIMUM 3" CURB HEIGHT. REDUCE INTERMEDIATE CURB HEIGHT TO 2+ INCHES IF NECESSARY TO MATCH ADJACENT BOULEVARD OR SIDEWALK GRADES.

LEGEND

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

(S) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.

(F) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.

LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.

X" CURB HEIGHT

REVISION:

APPROVED: 11-04-2021

JEFFREY PERKINS
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.250 | 1 OF 6

APPROVED: 11-04-2021
REVISED:

THOMAS STYRBICKI
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

I HEREBY CERTIFY THAT THE PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL J BOEK
LIC. NO. 44576 DATE 02/22/2022

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Cottage Grove
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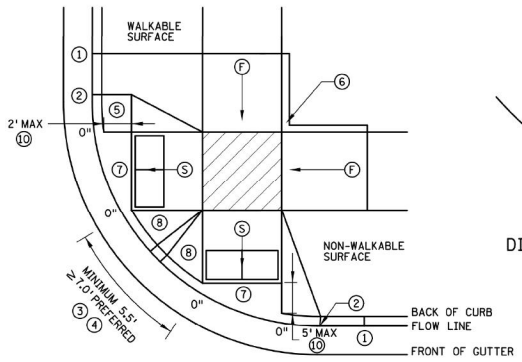
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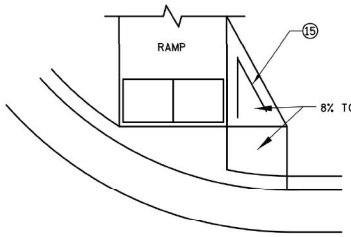
CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
MNDOT STANDARD PLAN 5-297.250 - PEDESTRIAN CURB RAMP DETAILS

SHEET C8.01

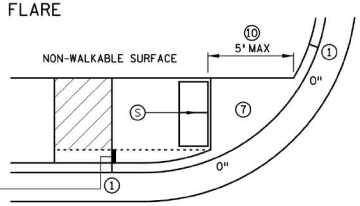
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COMBINED DIRECTIONAL

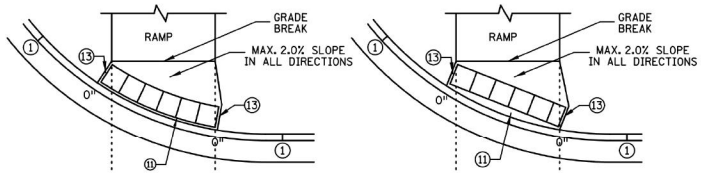


DIRECTIONAL RAMP WALKABLE FLARE



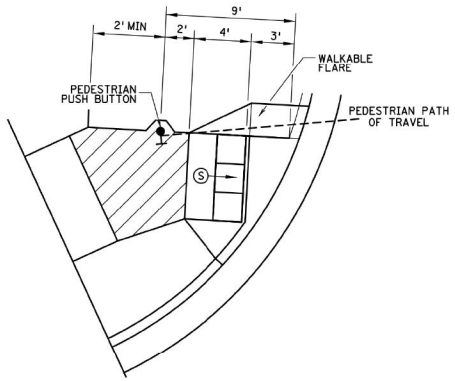
IF NON-CONCRETE BLVD. IS CONSTRUCTED AND IS LESS THAN 2' IN WIDTH AT TOP OF CURB TRANSITION, PAVE CONCRETE RAMP WIDTH TO ADJACENT BACK OF CURB.

STANDARD ONE-WAY DIRECTIONAL ⑨



DETECTABLE WARNING PLACEMENT WHEN SETBACK CRITERIA IS EXCEEDED ⑫

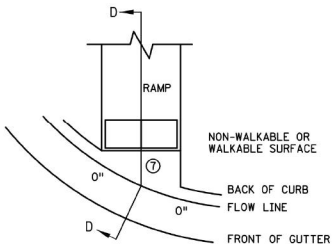
ONE-WAY DIRECTIONAL WITH DETECTABLE WARNING AT BACK OF CURB

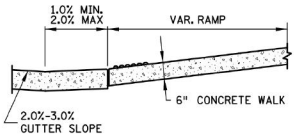


SEMI-DIRECTIONAL RAMP ③④⑨

3' DOME SETBACK, 4' LONG RAMP AND PUSH BUTTON 9' FROM THE BACK OF CURB

PRIMARILY USED FOR APS APPLICATIONS WHERE THE PAR DOES NOT CONTINUE PAST THE PUSH BUTTON (DEAD-END SIDEWALK)





SECTION D-D

CURB FOR DIRECTIONAL RAMPS ⑭

NOTES:

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 5' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY APPLICABLE WHEN THE INITIAL RAMP RUNNING SLOPE IS OVER 5.0%.

SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR. 1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOP GRADE BREAK OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES.

ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL. THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH.

TO ENSURE INITIAL RAMPS AND INITIAL LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS SHALL BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 AND THE ADA SPECIAL PROVISION (PROSECUTION OF WORK).

TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.

WHEN THE BOULEVARD IS 4' WIDE OR LESS, THE TOP OF CURB TAPER SHALL MATCH THE RAMP SLOPES TO REDUCE NEGATIVE BOULEVARD SLOPES FROM THE TOP BACK OF CURB TO THE PAR.

ALL RAMP TYPES SHOULD HAVE A MINIMUM 3' LONG RAMP LENGTH.

4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN. OF 24" IN THE PATH OF TRAVEL. DETECTABLE WARNING TO COVER THE ENTIRE PAR WIDTH OF SHARED-USE PATHS AND THE ENTIRE PAR WIDTH OF THE WALK WITH THE EXCEPTION OF 3" MAXIMUM ON EACH OUTSIDE EDGE WHICH ENSURES THE DETECTABLE WARNINGS ARE ENCASED IN CONCRETE WHEN ADJACENT TO TURF. WHEN ADJACENT TO CONCRETE FLARES 0" - 3" OFFSET IS ALLOWED.

WHEN DESIGNING OR ORDERING RECTANGULAR DETECTABLE WARNING SURFACES SHOULD BE 6" LESS THAN THE INCOMING PAR. ARC LENGTH OF THE RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN 20 FEET.

RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB. SEE NOTES ⑩ & ⑪ FOR INFORMATION REGARDING RECTANGULAR DETECTABLE WARNING PLACEMENT.

① MATCH FULL CURB HEIGHT.

② 3" HIGH CURB WHEN USING A 3' LONG RAMP
4" HIGH CURB WHEN USING A 4' LONG RAMP.

③ 3" MINIMUM CURB HEIGHT (5.5' MIN. DISTANCE REQUIRED BETWEEN DOMES)
4" PREFERRED (7' MIN. DISTANCE REQUIRED BETWEEN DOMES).

④ THE "BUMP" IN BETWEEN THE RAMPS SHOULD NOT BE IN THE PATH OF TRAVEL FOR COMBINED DIRECTIONAL RAMPS. IF THIS OCCURS MODIFY THE RAMP LOCATION OR SWITCH RAMP TO A FAN/DEPRESSED CORNER.

⑤ WHEN USING CONCRETE PAVED FLARES ON THE OUTSIDE OF DIRECTIONAL RAMPS, AND ADJACENT TO A WALKABLE SURFACE, DIRECTIONAL RAMP FLARES SHALL BE USED. SEE THE DETAIL ON THIS SHEET.

⑥ GRADING SHALL ALWAYS BE USED WHEN FEASIBLE. V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. WHEN ADJACENT TO PARKING LOTS, CONCRETE OR BITUMINOUS TAPERS SHOULD BE USED OVER V CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOVAL.

⑦ MAX. 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK AND DRAIN TO FLOW LINE. SHALL BE CONSTRUCTED INTEGRAL WITH CURB AND GUTTER.

⑧ 8% TO 10% WALKABLE FLARE.

⑨ PLACE DOMES AT THE BACK OF CURB WHEN ALLOWABLE SETBACK CRITERIA IS EXCEEDED.

⑩ FRONT EDGE OF DETECTABLE WARNING SHALL BE SET BACK 2' MAXIMUM WHEN ADJACENT TO WALKABLE SURFACE, AND 5' MAXIMUM WHEN ADJACENT TO NON-WALKABLE SURFACE WITH ONE CORNER SET 3" FROM BACK OF CURB. A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.

⑪ RECTANGULAR DETECTABLE WARNINGS MAY BE SETBACK UP TO 9" FROM THE BACK OF CURB WITH CORNERS SET 3" FROM BACK OF CURB. IF 9" SETBACK IS EXCEEDED USE RADIAL DETECTABLE WARNINGS.

⑫ FOR DIRECTIONAL RAMPS WITH THE DETECTABLE WARNINGS PLACED AT THE BACK OF CURB, THE DETECTABLE WARNINGS SHALL COVER THE ENTIRE WIDTH OF THE WALK/PATH. THIS ENSURES A DETECTABLE EDGE AND HELPS ELIMINATE THE CURB TAPER OBSTRUCTING THE PATH OF PEDESTRIAN TRAVEL.

⑬ THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE BACK OF CURB. MAINTAIN 3" BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.

⑭ TO BE USED FOR ALL DIRECTIONAL RAMPS, EXCEPT WHERE DOMES ARE PLACED ALONG THE BACK OF CURB.

⑮ PLACE 2 NO. 4 BARS 4 INCHES FROM SIDE OF FORMS WITH A MINIMUM 2 INCHES OF CONCRETE COVER ALONG EACH SIDE OF FLARE (INCIDENTAL).

LEGEND

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

(S) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.

(F) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.

LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.

X" CURB HEIGHT

REVISION:

APPROVED: 11-04-2021

JEFFREY PERKINS
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.250 | 2 OF 6

APPROVED: 11-04-2021
REVISED:

THOMAS STYRBICKI
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STATE PROJ. NO. (T.H.) SHEET NO. OF SHEETS

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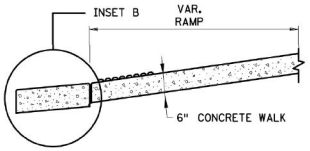
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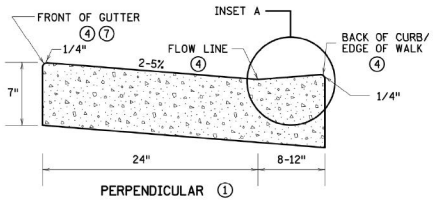
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CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
MNDOT STANDARD PLAN 5-297.250 - PEDESTRIAN CURB RAMP DETAILS

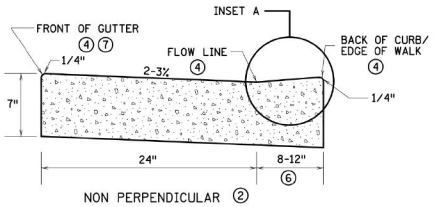
SHEET C8.02

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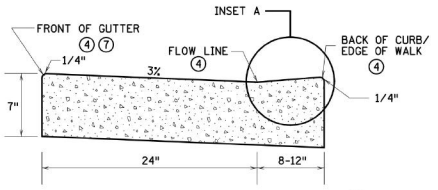


PERPENDICULAR (1)

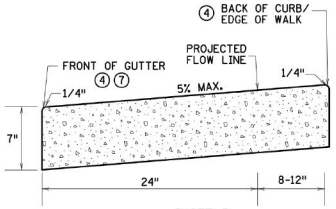


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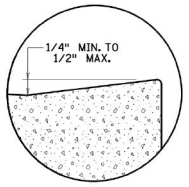
PEDESTRIAN ACCESS ROUTE CURB & GUTTER DETAIL



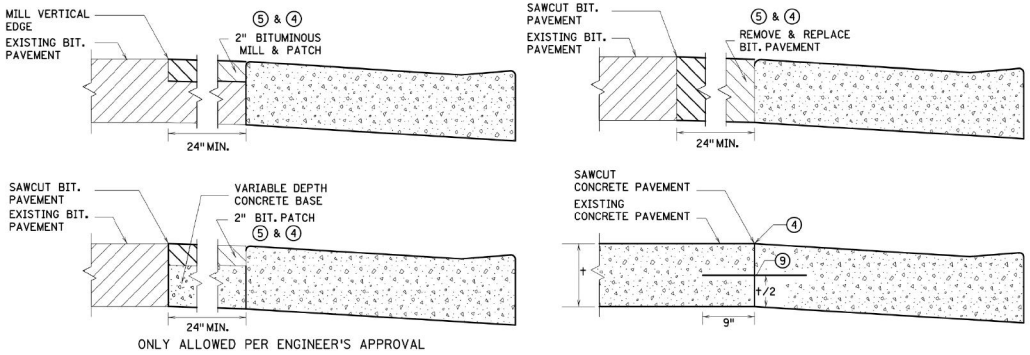
FOR CURB MACHINE PLACEMENT AROUND RADIUS (3)
(REGARDLESS OF RAMP TYPE)



INSET B
OUTFLOW GUTTER (8)

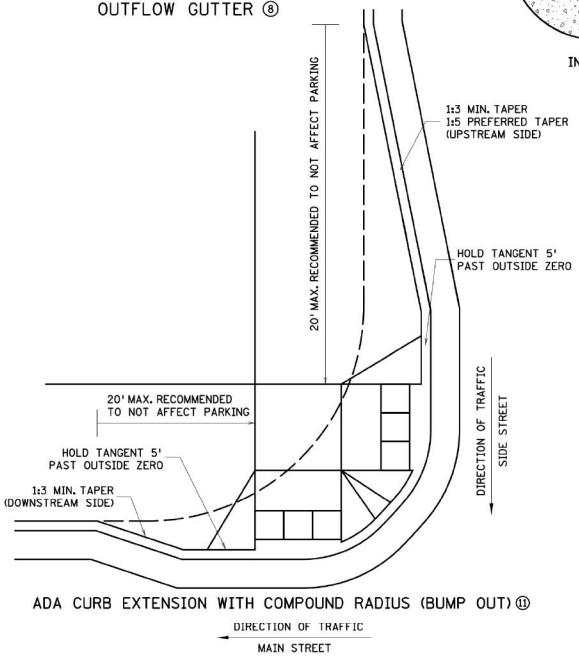


INSET A

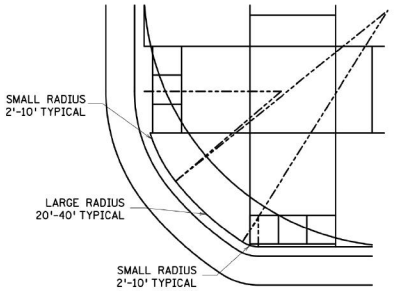


ONLY ALLOWED PER ENGINEER'S APPROVAL

PAVEMENT TREATMENT OPTIONS IN FRONT OF CURB & GUTTER
FOR USE ON CURB RAMP RETROFITS



ADA CURB EXTENSION WITH COMPOUND RADIUS (BUMP OUT) (11)



COMBINED DIRECTIONAL (10)
(COMPOUND RADIUS)

NOTES:

POSITIVE FLOW LINE DRAINAGE SHALL BE MAINTAINED THROUGH THE PEDESTRIAN ACCESS ROUTE (PAR) AT A 2% MAXIMUM.

NO PONDING SHALL BE PRESENT IN THE PAR.

ANY VERTICAL LIP THAT OCCURS AT THE FLOW LINE SHALL NOT BE GREATER THAN 1/4 INCH.

(1) FOR USE AT CURB CUTS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: PERPENDICULAR, TIERED PERPENDICULAR, PARALLEL, AND DIAGONAL RAMPS.

(2) FOR USE AT CURB RAMPS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED NON PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: FANS & DEPRESSED CORNERS.

(3) BEGIN GUTTER SLOPE TRANSITION 10' OUTSIDE OF ALL CURB RAMPS.

(4) THERE SHALL BE NO VERTICAL DISCONTINUITIES GREATER THAN 1/4".

(5) ELEVATION CHANGE TAKES PLACE FROM THE EXISTING TO NEW FRONT OF GUTTER. PATCH IS USED TO MATCH THE NEW GUTTER FACE INTO THE EXISTING ROADWAY.

(6) VARIABLE WIDTH FOR DIRECTIONAL CURB APPLICATIONS. SEE SHEET 2 FOR DIRECTIONAL CURB SLOPE REQUIREMENTS.

(7) TOP FRONT OF GUTTER SHALL BE CONSTRUCTED FLUSH WITH PROPOSED ADJACENT PAVEMENT ELEVATION. TOP 1.5" OF THE GUTTER FACE MUST BE A FORMED EDGE. PAR GUTTER SHALL NOT BE OVERLAID.

(8) SHOULD BE USED AT VERTICALLY CONSTRAINED AREAS WHEN AT A DRAINAGE HIGH POINT OR SUPER ELEVATED ROADWAY SEGMENTS.

(9) DRILL AND GROUT NO. 4 EPOXY-COATED 18" LONG TIE BARS AT 30" CENTER TO CENTER INTO EXISTING CONCRETE PAVEMENT 1' MINIMUM FROM ALL JOINTS.

(10) HELPS PROVIDE TWO SEPARATE RAMPS, REDUCES THE DOME SETBACK LENGTH AND MINIMIZES DIRECTIONAL CURB. THIS RADIUS DESIGN CLOSELY FOLLOWS THE TURNING VEHICLE PATH WHILE OPTIMIZING CURB RAMP LENGTH.

(11) CURB EXTENSIONS SHOULD BE USED IN VERTICALLY CONSTRAINED AREAS, USUALLY IN DOWNTOWN ROADWAY SEGMENTS WHERE ON-STREET PARKING IS AVAILABLE. CURB EXTENSIONS SHOULD BE CONSIDERED FOR APS INTERSECTIONS WHERE SPACE IS LIMITED. PUSH BUTTONS MUST MEET APS CRITERIA AS DESCRIBED IN THE PUSH BUTTON LOCATION DETAIL SHEET.

REVISION:

APPROVED: 11-04-2021
JEFFREY PERKINS
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.250 | 3 OF 6

APPROVED: 11-04-2021
REVISED:
THOMAS STYRBICKI
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

I HEREBY CERTIFY THAT THE PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
MICHAEL J BOEK
LIC. NO. 44576 DATE 02/22/2022

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Cottage Grove
Where Pride and Prosperity Meet

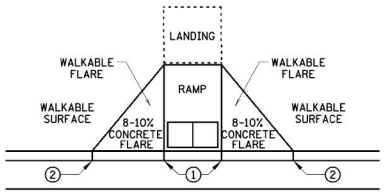
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NO.	ISSUED FOR	DATE
	BID	02/22/2022

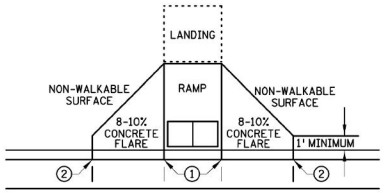
CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
MNDOT STANDARD PLAN 5-297.250 - PEDESTRIAN CURB RAMP DETAILS

SHEET C8.03

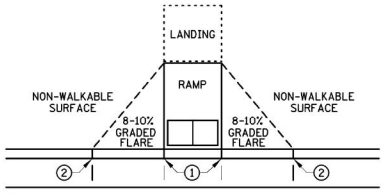
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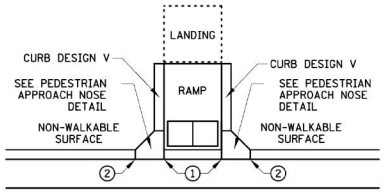
PAVED FLARES
ADJACENT TO WALKABLE SURFACE



PAVED FLARES
ADJACENT TO NON-WALKABLE SURFACE

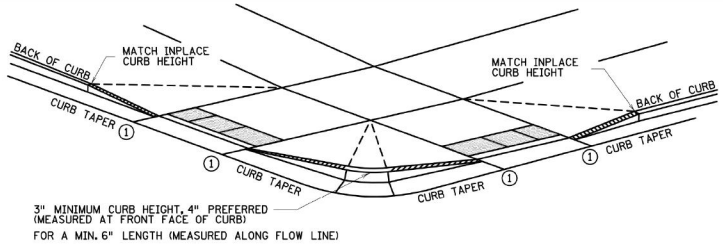


GRADED FLARES

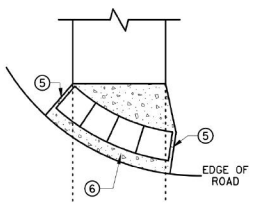


RETURNED CURB ④

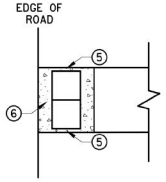
TYPICAL SIDE TREATMENT OPTIONS ③ ⑩



DETECTABLE EDGE WITH ⑦
CURB AND GUTTER

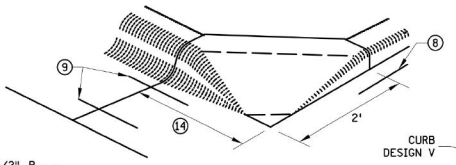


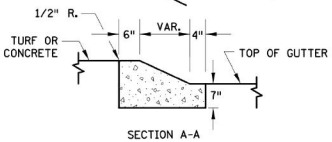
RADIAL DETECTABLE WARNING



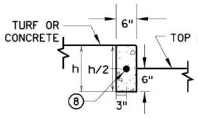
RECTANGULAR DETECTABLE WARNING

DETECTABLE EDGE WITHOUT CURB AND GUTTER

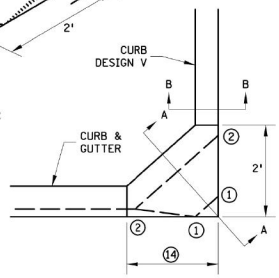




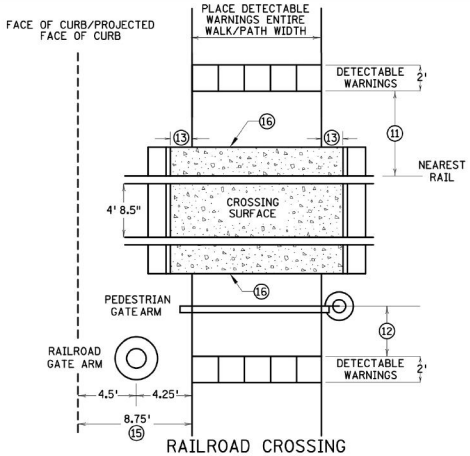
SECTION A-A



SECTION B-B



PEDESTRIAN APPROACH
NOSE DETAIL
(FOR RETURNED CURB
SIDE TREATMENT)



RAILROAD CROSSING
PLAN VIEW

NOTES:

INTERMEDIATE CURB HEIGHTS TAPER SHALL RISE AT 8-10% TO A MINIMUM 3 INCH CURB HEIGHT. INCREASE CURB TAPER LENGTH AT LESS THAN 8% OR REDUCE INTERMEDIATE CURB HEIGHT TO 2+ INCHES IF NECESSARY TO MATCH ADJACENT BOULEVARD OR SIDEWALK GRADES.

SEE STANDARD PLATE 7038 AND THIS SHEET FOR ADDITIONAL DETAILS ON DETECTABLE WARNING.

A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.

CONCRETE FLARE LENGTHS ADJACENT TO NON-WALKABLE SURFACES SHOULD BE LESS THAN 8' LONG MEASURED ALONG THE RAMPS FROM THE BACK OF CURB.

① 0" CURB HEIGHT. SEE INSET A ON SHEET 3 OF 6.

② FULL CURB HEIGHT.

③ SIDE TREATMENTS ARE APPLICABLE TO ALL RAMP TYPES AND SHOULD BE IMPLEMENTED AS NEEDED AS FIELD CONDITIONS DICTATE. THE ENGINEER SHALL DETERMINE THE RAMP SIDE TREATMENTS BASED ON MAINTENANCE OF BOTH ROADWAY AND SIDEWALK, ADJACENT PROPERTY CONSIDERATIONS, AND MITIGATING CONSTRUCTION IMPACTS.

④ TYPICALLY USED FOR MEDIANS AND ISLANDS.

⑤ WHEN NO CONCRETE FLARES ARE PROPOSED, THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE EDGE OF ROADWAY. MAINTAIN 3" MAX. BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.

⑥ IF NO CURB AND GUTTER IS PLACED IN RURAL SECTIONS, DETECTABLE WARNINGS SHALL BE PLACED 1' FROM THE EDGE OF BITUMINOUS ROADWAY AND/OR BITUMINOUS SHARED-USE PATH TO PROVIDE VISUAL CONTRAST.

⑦ ALL CONSTRUCTED CURBS MUST HAVE A CONTINUOUS DETECTABLE EDGE FOR THE VISUALLY IMPAIRED. THIS DETECTABLE EDGE REQUIRES DETECTABLE WARNINGS WHEREVER THERE IS ZERO-INCH HIGH CURB. CURB TAPERS ARE CONSIDERED A DETECTABLE EDGE WHEN THE TAPER STARTS WITHIN 3" OF THE EDGE OF THE DETECTABLE WARNINGS, AND UNIFORMLY RISES TO A 3-INCH MINIMUM CURB HEIGHT. ANY CURB NOT PART OF A CURB TAPER AND LESS THAN 3 INCHES IN HEIGHT IS NOT CONSIDERED A DETECTABLE EDGE AND THEREFORE IS NOT COMPLIANT WITH ACCESSIBILITY STANDARDS.

⑧ DRILL AND GROUT 1 - NO. 4 12" LONG REINFORCEMENT BAR (EPOXY COATED) WITH 3" MIN. COVER. REINFORCEMENT BARS ARE NOT NEEDED IF THE APPROACH NOSE IS POURED INTEGRAL WITH THE V CURB.

⑨ DRILL AND GROUT 2 - NO. 4 12" LONG REINFORCEMENT BARS (EPOXY COATED) WITH 3" MIN. COVER. REINFORCEMENT BARS ARE NOT NEEDED IF THE APPROACH NOSE IS POURED INTEGRAL WITH THE CURB AND GUTTER.

⑩ SIDE TREATMENT EXAMPLES SHOWN ARE WHEN THE INITIAL LANDING IS APPROXIMATELY LEVEL WITH THE FULL HEIGHT CURB (I.E. 6' LONG RAMP FOR 6" HIGH CURB). WHEN THE INITIAL LANDING IS MORE THAN 1" BELOW FULL HEIGHT CURB REFER TO SHEETS 1 & 2 TO MODIFY THE CURB HEIGHT TAPERS AND MAINTAIN POSITIVE BOULEVARD DRAINAGE. CONSTRUCT THESE TAPERS AT 0"-3" AT 8-10%, THEN LESS THAN 5% FROM 3" CURB TO FULL CURB HEIGHT.

⑪ NEAREST EDGE OF DETECTABLE WARNING SURFACES SHALL BE PLACED 12' MINIMUM TO 15' MAXIMUM FROM THE NEAREST RAIL. FOR SKEWED RAILWAYS IN NO INSTANCE SHALL THE DETECTABLE WARNING BE CLOSER THAN 12' MEASURED PERPENDICULAR TO THE NEAREST RAIL.

⑫ WHEN PEDESTRIAN GATES ARE PROVIDED, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE SIDE OF THE GATES OPPOSITE THE RAIL, 2' FROM THE APPROACHING SIDE OF THE GATE ARM. THIS CRITERIA GOVERNS OVER NOTE ⑪.

⑬ CROSSING SURFACE SHALL EXTEND 2' MINIMUM PAST THE OUTSIDE EDGE OF WALK OR SHARED-USE PATH.

⑭ 3' FOR MEDIANS AND SPLITTER ISLANDS. NOSE CAN BE REDUCED TO 2' ON FREE RIGHT ISLANDS.

⑮ SIDEWALK TO BE PLACED 8.75' MIN. FROM THE FACE OF CURB/PROJECTED FACE OF CURB. THIS ENSURES MIN. CLEARANCE BETWEEN THE SIDEWALK AND GATE ARM COUNTERWEIGHT SUPPORTS.

⑯ CONSTRUCT WITH EXPANSION MATERIAL PER MNDOT SPECIFICATION 3702 TYPES A-E. EXPANSION MATERIAL SHALL MATCH FULL HEIGHT OF ADJACENT CONCRETE.

REVISION:

APPROVED: 11-04-2021
JEFFREY PERKINS
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.250 | 4 OF 6

APPROVED: 11-04-2021
REVISED:

THOMAS STYBRICKI
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

I HEREBY CERTIFY THAT THE PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL J BOEK
LIC. NO. 44576 DATE 02/22/2022

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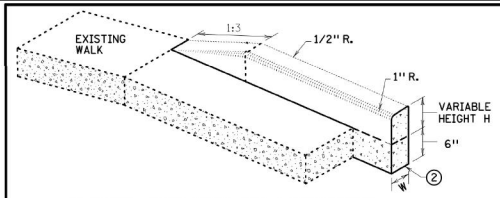
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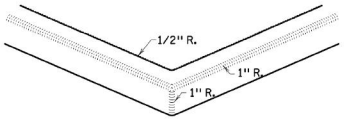
CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
MNDOT STANDARD PLAN 5-297.250 - PEDESTRIAN CURB RAMP DETAILS

SHEET C8.04

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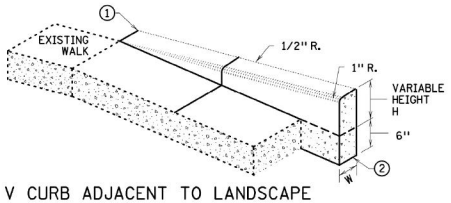


V CURB ADJACENT TO LANDSCAPE
CURB WITHIN SIDEWALK LIMITS

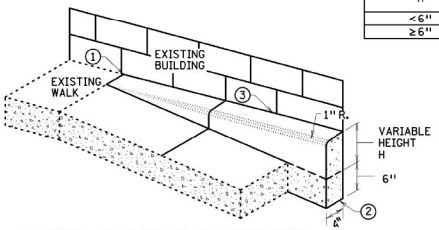


V CURB INTERSECTION

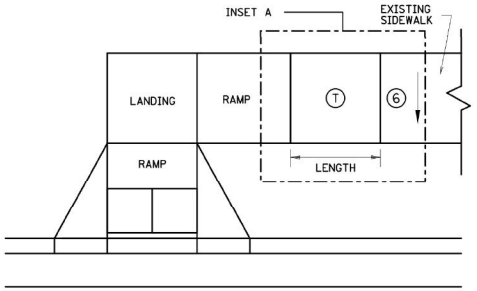
CONCRETE CURB DESIGN V	
CURB HEIGHT H	CURB WIDTH W
< 6"	4"
≥ 6"	6"



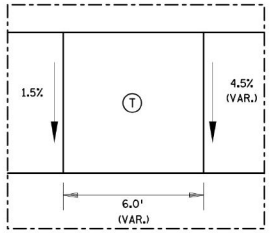
V CURB ADJACENT TO LANDSCAPE
CURB OUTSIDE SIDEWALK LIMITS



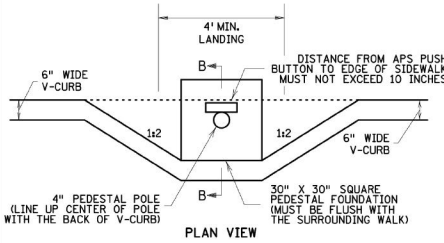
V CURB ADJACENT TO BUILDING OR BARRIER



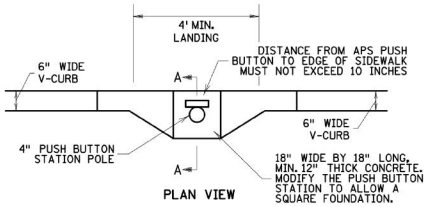
TRANSITION PANEL ④⑤



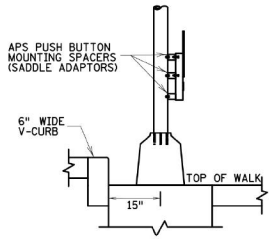
INSET A



PLAN VIEW

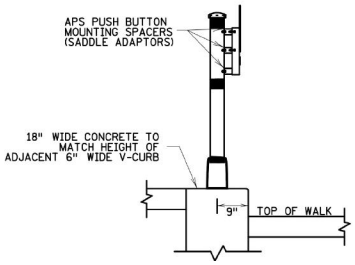


PLAN VIEW



SECTION B-B

SIGNAL PEDESTAL & PUSH BUTTON (V-CURB)



SECTION A-A

PUSH BUTTON STATION (V-CURB)

NOTES:

A WALKABLE FLARE IS AN 8-10% CONCRETE FLARE THAT IS REQUIRED WHEN THE FLARE IS ADJACENT TO A WALKABLE SURFACE, OR WHEN THE PEDESTRIAN PATH OF TRAVEL OF A PUSH BUTTON TRAVERSES THE FLARE.

ALL V CURB CONTRACTION JOINTS SHALL MATCH CONCRETE WALK JOINTS.

WHERE RIGHT-OF-WAY ALLOWS, USE OF V CURB SHOULD BE MINIMIZED. GRADING ADJACENT TURF OR SLOPING ADJACENT PAVEMENT IS PREFERRED.

V CURB SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS.

V CURB NEXT TO BUILDING SHALL BE A 4" WIDTH AND SHALL MATCH PREVIOUS TOP OF SIDEWALK ELEVATIONS.

① END TAPERS AT TRANSITION SECTION SHALL MATCH INPLACE SIDEWALK GRADES.

② ALL V CURB SHALL MATCH BOTTOM OF ADJACENT WALK.

③ CONSTRUCT USING APPROVED EXPANSION MATERIAL PER MNDOT TYPE A-E EXPANSION. LEAVE A MINIMUM ½" TOP GAP AND SEAL WITH MNDOT APPROVED SILICONE PER MNDOT SPEC 3722.

④ THE MAX. RATE OF CROSS SLOPE TRANSITIONING IS 1' LINEAR FOOT OF SIDEWALK PER HALF PERCENT CROSS SLOPE. WHEN PAR WIDTH IS GREATER THAN 6' OR THE RUNNING SLOPE IS GREATER THAN 5%, DOUBLE THE CALCULATED TRANSITION LENGTH.

⑤ TRANSITION PANELS ARE TO ONLY BE USED AFTER THE RAMP, OR IF NEEDED, LANDING ARE AT THE FULL CURB HEIGHT (TYPICAL SECTION).

⑥ EXISTING CROSS SLOPE GREATER THAN 2.0%.

LEGEND

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

Ⓢ INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.

LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.

Ⓣ TRANSITION PANEL(S) - TO BE USED FOR TRANSITIONING THE CROSS-SLOPE OF A RAMP TO THE EXISTING WALK CROSS-SLOPE. RATE OF TRANSITION SHOULD BE 0.5% PER 1 LINEAR FOOT OF WALK. SEE THIS SHEET FOR ADDITIONAL INFORMATION.

REVISION:

APPROVED: 11-04-2021
JEFFREY PERKINS
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.250 | 5 OF 6

APPROVED: 11-04-2021
REVISED:

THOMAS STYRBICKI
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

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MICHAEL J BOEK
LIC. NO. 44576 DATE 02/22/2022

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Cottage Grove
Where Pride and Prosperity Meet

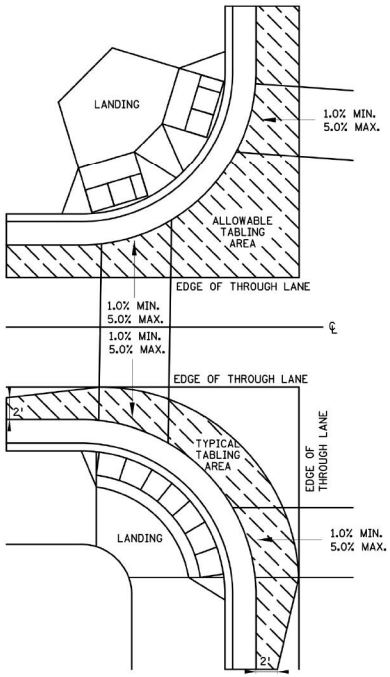
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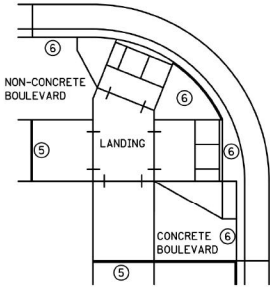
CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
MNDOT STANDARD PLAN 5-297.250 - PEDESTRIAN CURB RAMP DETAILS

SHEET C8.05

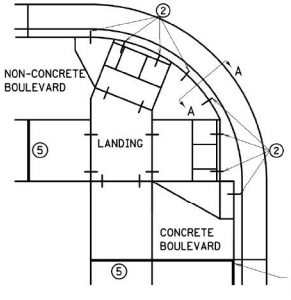
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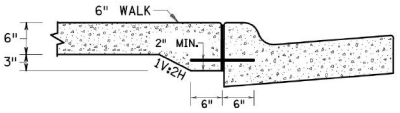
CURB LINE AND ROAD CROSSING ADJUSTMENTS



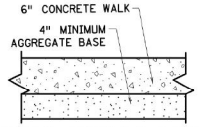
EXPANSION MATERIAL PLACEMENT FOR CONCRETE ROADWAYS



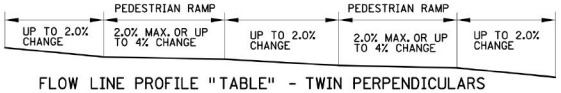
CURB LINE REINFORCEMENT ④ PLACEMENT ON BITUMINOUS ROADWAYS



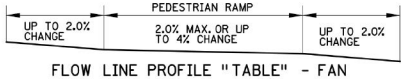
SECTION VIEW A-A
THICKENED SECTION
THROUGH CURB RAMP FLARES



TYPICAL SIDEWALK SECTION
WITHIN INTERSECTION CORNER



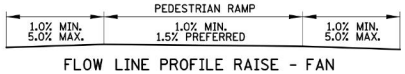
FLOW LINE PROFILE "TABLE" - TWIN PERPENDICULARS



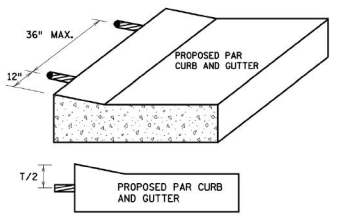
FLOW LINE PROFILE "TABLE" - FAN



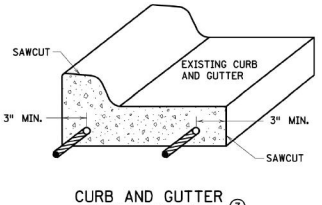
FLOW LINE PROFILE RAISE - TWIN PERPENDICULARS



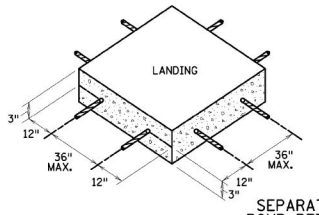
FLOW LINE PROFILE RAISE - FAN

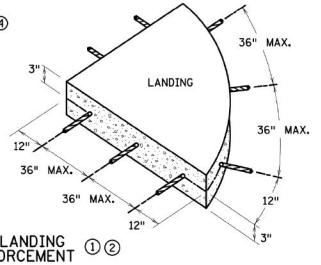


CURB RAMP REINFORCEMENT DETAILS ②④



CURB AND GUTTER REINFORCEMENT ③





SEPARATE LANDING POUR REINFORCEMENT ①②

GENERAL NOTES:

"TABLING" OF CROSSWALKS MEANS MAINTAINING LESS THAN 2% CROSS SLOPE WITHIN A CROSSWALK, IS REQUIRED WHEN A ROADWAY IS IN A STOP OR YIELD CONDITION AND THE PROJECT SCOPE ALLOWS.

RECONSTRUCTION PROJECTS: ON FULL PAVEMENT REPLACEMENT PROJECTS "TABLING" OF ENTIRE CROSSWALK SHALL OCCUR WHEN FEASIBLE.

MILL & OVERLAY PROJECTS: "TABLING" OF FLOW LINES, IN FRONT OF THE PEDESTRIAN RAMP, IS REQUIRED WHEN THE EXISTING FLOW LINE IS GREATER THAN 2%. WARPING OF THE BITUMINOUS PAVEMENT CAN NOT EXTEND INTO THE THROUGH LANE. TABLE THE FLOW LINE TO 2% OR AS MUCH AS POSSIBLE WHILE ADHERING TO THE FOLLOWING CRITERIA:

1) 1.0% MIN. CROSS-SLOPE OF THE ROAD
2) 5.0% MAX. CROSS-SLOPE OF THE ROAD
3) "TABLE" FLOW LINE UP TO 4% CHANGE FROM EXISTING SLOPE IN FRONT OF PEDESTRIAN RAMP
4) UP TO 2% CHANGE IN FLOW LINE FROM EXISTING SLOPE BEYOND THE PEDESTRIAN CURB RAMP

STAND-ALONE ADA RETROFITS: FOLLOW MILL & OVERLAY CRITERIA ABOVE HOWEVER ALL PAVEMENT WARPING IS DONE WITH BITUMINOUS PATCHING ON BITUMINOUS ROADWAYS AND FULL-DEPTH APRON REPLACEMENT ON CONCRETE ROADWAYS.

RAISING OF CURB LINES SHOULD OCCUR IN VERTICALLY CONSTRAINED AREAS. RAISE THE CURB LINES ENOUGH TO ALLOW COMPLIANT RAMPS OR AS MUCH AS POSSIBLE WHILE ADHERING TO THE FOLLOWING CRITERIA:

1) 1.0% MIN. AND 5.0% MAXIMUM CROSS-SLOPE OF THE ROAD
2) 1.0% MIN. FLOW LINE (ON EITHER SIDE OF PEDESTRIAN RAMP) TO MAINTAIN POSITIVE DRAINAGE
3) 5.0% RECOMMENDED MAX. FLOW LINE
4) LONGITUDINAL THROUGH LANE ROADWAY TAPERS SHOULD BE 1" VERTICAL PER 15' HORIZONTAL

NOTES:

① TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONSTRUCTED, ALL INITIAL LANDINGS AT A TOP OF A RAMPED SURFACE (RUNNING SLOPE GREATER THAN 2%) SHALL BE FORMED AND PLACED SEPARATELY IN AN INDEPENDENT CONCRETE POUR. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON THIS SHEET FOR ALL SEPARATELY POURED INITIAL LANDINGS.

② DRILL AND GROUT NO. 4 12" LONG REINFORCEMENT BARS (EPOXY COATED) AT 36" MAXIMUM CENTER TO CENTER MINIMUM 12" SPACING FROM CONSTRUCTION JOINTS. BARS TO BE ADJUSTED TO MATCH RAMP GRADE. BARS TO BE PAID BY EACH.

③ DRILL AND GROUT 2 - NO. 4 X 12" LONG (6" EMBEDDED) REINFORCEMENT BARS (EPOXY COATED). REINFORCEMENT REQUIRED FOR ALL CONSTRUCTION JOINTS. BARS TO BE PAID BY EACH.

④ THIS CURB LINE REINFORCEMENT DETAIL SHALL BE USED ON BITUMINOUS ROADWAYS. FOR CONCRETE ROADWAYS, SEE NOTE 6.

⑤ CONSTRUCT WITH EXPANSION MATERIAL PER MNDOT SPECIFICATION 3702 TYPES A-E. EXPANSION MATERIAL SHALL MATCH FULL HEIGHT OF ADJACENT CONCRETE.

⑥ USE AN APPROVED TYPE F (1/4 INCH THICK) SEPARATION MATERIAL. SEPARATION MATERIAL SHALL MATCH FULL HEIGHT DIMENSION OF ADJACENT CONCRETE.

REVISION:

APPROVED: 11-04-2021
JEFFREY PERKINS
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.250 | 6 OF 6

APPROVED: 11-04-2021
REVISED:

THOMAS STYBRICKI
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

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MICHAEL J BOEK
LIC. NO. 44576 DATE 02/22/2022

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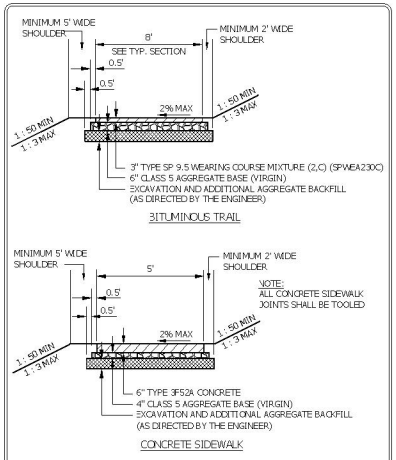
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CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
MNDOT STANDARD PLAN 5-297.250 - PEDESTRIAN CURB RAMP DETAILS

SHEET C8.06

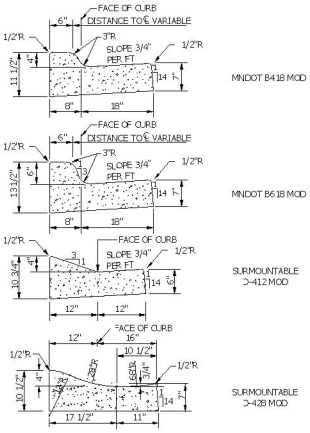
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Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
TYPICAL BITUMINOUS TRAIL AND CONCRETE SIDEWALK SECTIONS
COTTAGE GROVE, MINNESOTA
JANUARY 2022
PLATE NO. STR-9

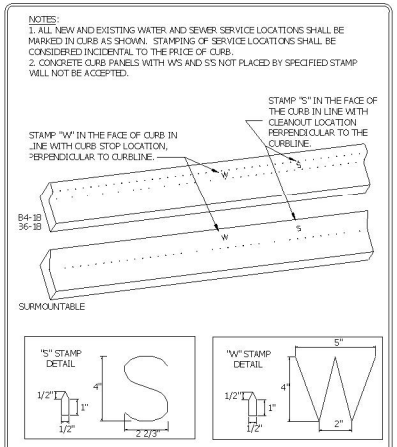
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Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
CURB AND GUTTER
COTTAGE GROVE, MINNESOTA
JANUARY 2022
PLATE NO. STR-10

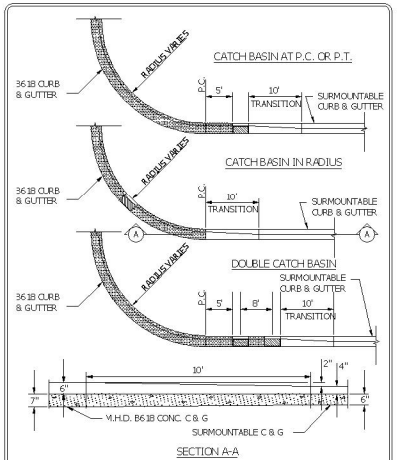
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Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
WATER AND SEWER SERVICE LOCATION STAMP IN CURB
COTTAGE GROVE, MINNESOTA
JANUARY 2022
PLATE NO. STR-11

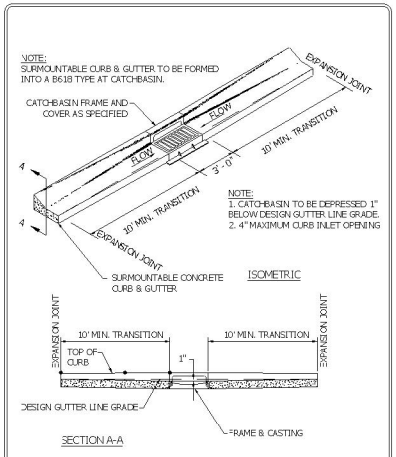
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Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
CONCRETE CURB AND GUTTER TRANSITION
COTTAGE GROVE, MINNESOTA
JANUARY 2022
PLATE NO. STR-12

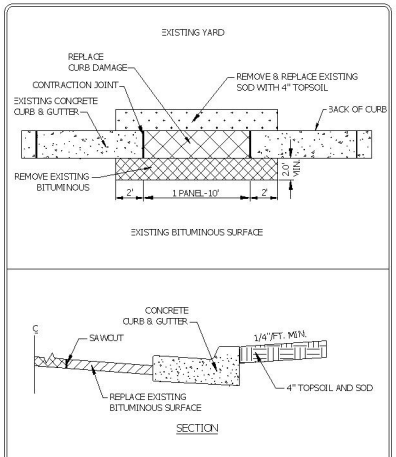
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Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
SURMOUNTABLE CURB AND GUTTER CONSTRUCTION AT CATCHBASIN
COTTAGE GROVE, MINNESOTA
JANUARY 2022
PLATE NO. STR-13

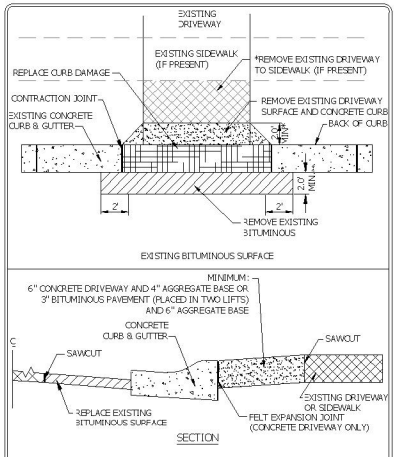
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STANDARD DETAILS
CONCRETE CURB REPLACEMENT
COTTAGE GROVE, MINNESOTA
JANUARY 2022
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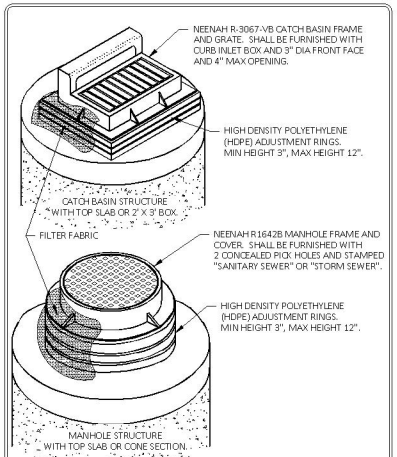
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Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
CONCRETE DRIVEWAY LOCATION
COTTAGE GROVE, MINNESOTA
JANUARY 2022
PLATE NO. STR-20

48_STR20.DWG



Cottage Grove — Where Pride and Prosperity Meet

STANDARD DETAILS
CATCHBASIN AND MANHOLE ADJUSTMENT
COTTAGE GROVE, MINNESOTA
JANUARY 2022
PLATE NO. STR-23

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MICHAEL J BOEK
LIC. NO. 44576 DATE 02/22/2022

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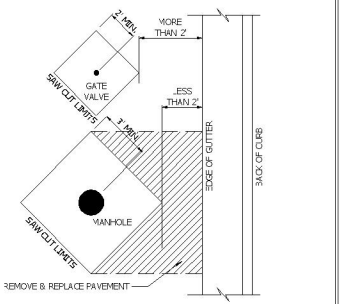
Cottage Grove — Where Pride and Prosperity Meet

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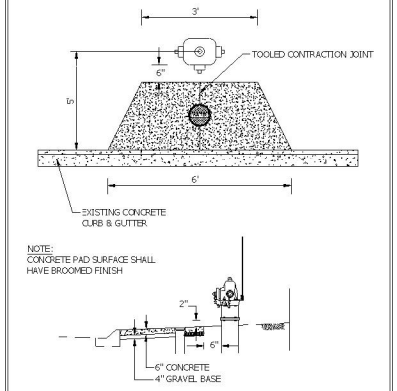
CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
STANDARD DETAILS

SHEET C8.07



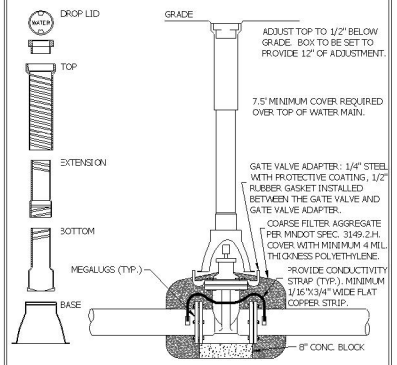
STANDARD DETAILS
STRUCTURE ADJUSTMENT PATCH (BITUMINOUS OR CONCRETE)
COTTAGE GROVE, MINNESOTA
JANUARY 2022
PLATE NO. STR-25

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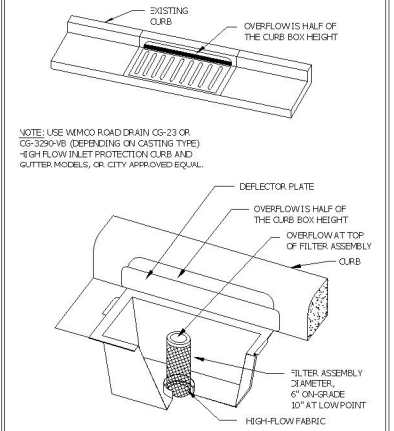
STANDARD DETAILS
CONCRETE HYDRANT PAD
COTTAGE GROVE, MINNESOTA
JANUARY 2022
PLATE NO. STR-37

48_STR37.DWG



STANDARD DETAILS
GATE VALVE AND BOX INSTALLATION
COTTAGE GROVE, MINNESOTA
JANUARY 2022
PLATE NO. WAT-3

48_WAT3.DWG



STANDARD DETAILS
INLET PROTECTION CATCH BASIN INSERT
COTTAGE GROVE, MINNESOTA
JANUARY 2022
PLATE NO. SRO-9

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MICHAEL J BOEK
LIC. NO. 44576 DATE 02/22/2022

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CITY OF COTTAGE GROVE, MINNESOTA
PARKVIEW POINTE 2022 FINAL STREET IMPROVEMENTS
STANDARD DETAILS

SHEET C8.08

City Council Action Request

7P

Meeting Date	3/2/2022
Department	Community Development
Agenda Category	Consent Agenda
Title	Cottage Grove Business Park AUAR Update
Staff Recommendation	Approve Resolution 2022-035 adopting the Business Park AUAR Update and Mitigation Plan as the required five-year update to the 2018 AUAR pursuant to Minnesota Rules, part 4410.3610, subpart 7.
Budget Implication	N/A

Attachments

Business Park AUAR CC Memo.tif	27.87MB
Business Park AUAR Resolution.tif	3.4MB
Business Park AUAR Attachment A - CG AUAR Update.tif	166.88MB
Business Park AUAR Attachment B - Land Use Comparison.tif	10.79MB
Business Park AUAR Attachment C - 2021 Scenario.tif	9.53MB

Cottage Grove
Where Pride and Prosperity Meet

TO: Honorable Mayor and City Council
Jennifer Levitt, City Administrator

FROM: Beth Elliott, Stantec
Mike Mrosla, Senior Planner

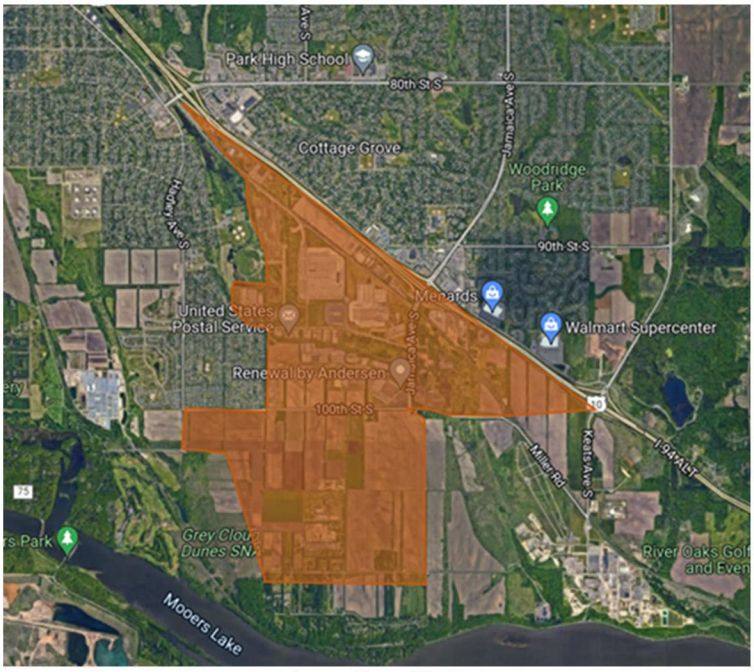
DATE: February 25, 2022

RE: Cottage Grove Business Park AUAR Update

Introduction

In 2017 the City of Cottage Grove's Strategic Plan identified goals and directions for the future of Cottage Grove. One of the goals identified was positioning Cottage Grove for growth. The City has made great strides in positioning the community for growth through participation in the DEED and Xcel Energy shovel ready programs as well as responding to requests for proposal for development from State agencies such as DEED. To position the community for growth, an Alternative Urban Areawide Review (AUAR) and Mitigation Plan was conducted.

The AUAR process is a hybrid of the Environmental Assessment Worksheet (EAW) and Environmental Impact Statement (EIS) review processes. Responsible Governmental Units (RGU) can use an AUAR as a planning tool to understand how different development scenarios will affect the environment of their community before the development occurs. The process is designed to look at the cumulative impacts of anticipated development scenarios within a given geographic area. The AUAR document uses a list of questions adapted from the EAW form, but provides a level of analysis of typical urban area impacts comparable to an EIS. Environmental analysis information from an AUAR can be used to inform local planning and zoning decisions.



Location Map

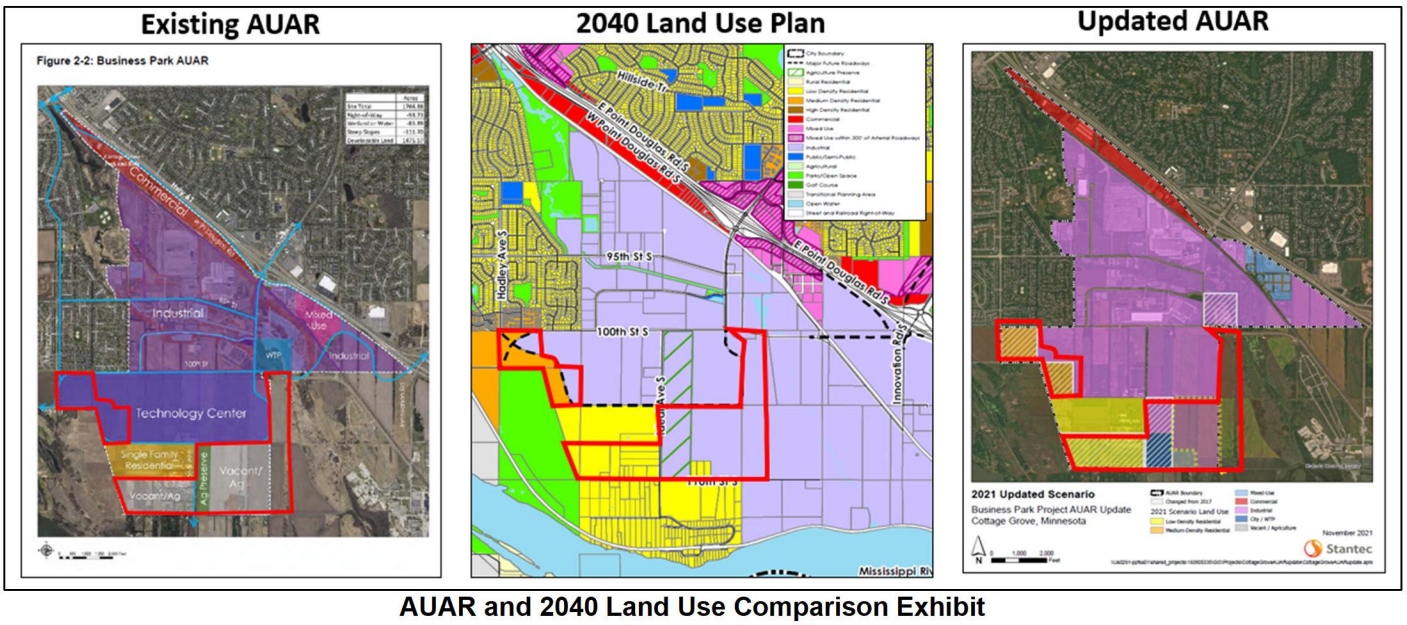
Background

In 2017 when the original AUAR was initiated, the City was under consideration as a location for a business of statewide significance in terms of size and economic impact. Completing the AUAR process was part of attracting the potential business to Cottage Grove by reducing the time necessary to complete a required environmental review on a case-by-case basis on a site large enough to accommodate the potential user(s). While the business of statewide significance did not locate in Cottage Grove, the process continues to offer business and industrial sites as infill opportunities inside the boundaries of the Business Park north of 100th Street and undeveloped land south of the boundaries of the existing Business Park which better positions the City and new users for a timelier entitlement process.

The purpose of an AUAR is to study cumulative impacts of anticipated development within a given geographic area. It has benefits that include:

- Analyzing issues and needs in a larger area
- Eliminating the need for an EAW or EIS for individual projects
- Consistency with the Comprehensive Plan
- Giving detailed guidance to local decision-makers
- Including a Mitigation Plan
- Getting updated every five years

As the Responsible Governmental Unit (RGU), the City of Cottage Grove adopted the Cottage AUAR and Mitigation Plan on January 3, 2018. The AUAR evaluated the existing business park and expansion to the south. Pursuant to Minnesota Rules, part 4410.3610, subpart 7, an AUAR and plan for mitigation must be revised every five years until all development in the study area has received final development approval. The intent of this update is to make existing AUAR consistent with the Land Use Plan in the 2040 Comprehensive Plan.



AUAR and 2040 Land Use Comparison Exhibit

Due to the existing versus proposed development patterns on either side of 100th Street in 2018, assumptions were made in the 2018 AUAR that are being clarified in the AUAR Update. Development patterns have diverged from those assumed in 2018 away from a large, impactful industrial user to a standard and uniform filling in of the Business Park with similar users. Many of the mitigation strategies were anticipated necessary for that "large" user but not for infill business of a similar nature to what is currently in the Business Park. Since an AUAR is a living document, this Update rectifies this ambiguity by defining a "large" user as:

1. Any business or residential development that either meets the required EIS threshold on its own, or
2. Is larger than 300,000 square feet and proposed for undeveloped land south of 100th Street.

This AUAR Update continues to prioritize analysis and mitigation of proposed development south of 100th Street while ensuring infill growth in the Business Park is accommodated. The City has recently received development interest for both industrial and residential uses within the AUAR area south of 100th Street. The City also plans to construct a new water treatment facility within the AUAR area that was anticipated on a different site in the 2018 AUAR.

AUAR documents use the standard EAW form and questions from the Minnesota Environmental Quality Board (EQB) but include additional analysis of alternative development scenarios, cumulative impacts, and mitigation. The AUAR Update is not required to repeat all of the same information as in the original 2018 AUAR but instead synthesize any changes and mitigation from the original AUAR. The EQB staff has reviewed many five-year updates and accepts this approach of preparing a summary document for each AUAR update that highlights the changes.

The AUAR Update carries forward the maximum development scenario (most intense) from 2018 and compares that to a new development scenario that is both consistent with the Comprehensive Plan and accommodates current development proposals south of 100th Street.

The 2018 development scenario (Development Scenario 1 in the Update document) planned for infill in the existing Business Park north of 100th Street and assumed a large distribution center south of 100th Street. Nearby properties were guided for more industrial, low-density residential, agriculture preserve, and vacant/agriculture uses.

The updated 2022 development scenario (Development Scenario 2 in the Update document) maintains the Business Park land uses north of 100th Street still include industrial but businesses that would likely have less traffic impact than a distribution center. A new water treatment plan was assumed in the 2018 AUAR, but it has now moved to its anticipated location along 110th Street at the southern base of the AUAR study area. The updated development scenario includes more residential – both low- and medium-density – and assumes development in areas the original 2018 AUAR identified as vacant.

Topics with No Updates

Many topics (or questions) in the AUAR did not require updating since the information stayed as is from the original AUAR. These topics included:

7. Cover Types
8. Permits and Approvals

10. Geologic Hazards and Soil Conditions
12. Solid Wastes, Hazardous Wastes, Storage Tanks
13. Fish, Plant Communities, and Sensitive Ecological Resources
14. Historic Properties
15. Visual
16. Air
17. Noise

Topics with Updates

Three topics in the AUAR required analysis of the updated development scenario compared to the maximum development scenario from 2018.

9. Land Use

As described in the Development Scenarios section above, Development Scenario 2 brought the AUAR into compliance with the City's Comprehensive Plan that was adopted after the original AUAR in 2020.

11. Water Resources

The City water system is divided into three interconnected pressure zones to provide optimum water system pressures to all customers. A new well within the High-Pressure Zone has been added since the 2018 AUAR to provide additional operational flexibility and reduced pumping costs. The High Zone Wells are very low in PFAS, so they are being pumped directly to the system after chemical addition at the pumphouse. Additional storage in the Low-Pressure Zone is currently being designed to support growth in the Business Park.

Additionally, the aquifer(s) that supply the City's municipal wells are impacted by Perflourochemical (PFAS) contamination that originates from a number of landfills in southern Washington County. Changing health guidelines for PFAS contamination have necessitated the construction of the three temporary water treatment plants within Cottage Grove to maintain flows to meet current demands. These temporary water treatment plants will be replaced by two permanent water treatment plants that are currently in the early design stages. One of these two permanent plants will be located within the AUAR.

18. Transportation

Due to the extent of land use changes from the 2018 maximum development scenario compared to the development scenario in the AUAR Update, traffic was the most extensive topic analyzed.

The Traffic Impact Study (TIS) completed for the 2018 AUAR was updated to account for the updated development scenario as well as changes to the roadway system that have occurred. The TIS focused on the following intersections:

- TH 61 NB Ramps/80th Street
- TH 61 SB Ramps/80th Street
- Hadley Avenue/80th Street
- TH 61 NB Ramps/Jamaica Avenue
- TH 61 SB Ramps/Jamaica Avenue

- Jamaica Avenue/95th Street
- Jamaica Avenue/100th Street
- TH 61 NB Ramps/Innovation Road
- TH 61 SB Ramps/Innovation Road
- Innovation Road/Miller Road

Traffic was going to be challenged in the 2018 maximum development scenario and is still challenged under the development scenario in this AUAR Update. City staff worked hand-in-hand with our consultants on this analysis and the mitigation strategies – the results do not raise any issues they did not already anticipate. Many of these issues would arise irrespective of the development scenarios in both the 2018 AUAR and this Update.

Though the five-year timeframe to update the AUAR has not been reached, it was felt that updating the existing AUAR to not only reflect the growth seen in the Business Park at this time but to ensure that the AUAR reflected the 2040 Comprehensive Plan.

The original AUAR evaluated the existing business park and expansion to the south. Pursuant to Minnesota Rules, part 4410.3610, subpart 7, an AUAR and plan for mitigation must be revised every five years until all development in the study area has received final development approval. The intent of this update is to make AUAR consistent with the Land Use Plan in the 2040 Comprehensive Plan.

Recommendations

The City Council is recommended to approve the resolution to adopt the Business Park AUAR Update and Mitigation Plan as the required five-year update to the 2018 AUAR pursuant to Minnesota Rules, part 4410.3610, subpart 7.

Attachments

A. Cottage Grove AUAR Update
B. AUAR and 2040 Land Use Comparison Exhibit
C. 2021 Updated Scenario Exhibit

CITY OF COTTAGE GROVE, MINNESOTA
CITY COUNCIL
RESOLUTION 2022-XXX

RESOLUTION ADOPTING THE 2022 UPDATED ALTERNATIVE URBAN AREAWIDE REVIEW (AUAR) AND MITIGATION PLAN COMMENT RESPONSE PACKET FOR THE COTTAGE GROVE BUSINESS PARK

WHEREAS, the City Council of the City of Cottage Grove is the official governing body of the City of Cottage Grove;

WHEREAS, the Cottage Grove Business Park AUAR and Mitigation Plan were initially adopted by the City Council on January 3, 2018 to identify and document potential environmental impacts resulting from the cumulative impacts of development in the Cottage Grove Business Park and an expansion area to the south;

WHEREAS, Pursuant to Minnesota Rules 4410.3610, the City of Cottage Grove has conducted an Update to a 2018 Alternative Urban Areawide Review (AUAR) for the Cottage Grove Business Park and an expansion area to the south scenario:

WHEREAS, the Cottage Grove Business Park AUAR Update document and Mitigation Plan were published with the EQB on February 8, 2022, as required by State Statute; and

WHEREAS, the public comment period advertised in the MN EQB Monitor ended on February 23, 2022; and

WHEREAS, comments received were addressed and included as an appendix to the AUAR Update document;

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Cottage Grove hereby adopts the 2022 Updated AUAR and Mitigation Plan for the Cottage Grove Business Park.

Passed this 2nd day of March 2022.

_____
Myron Bailey, Mayor

Attest:

_____
Joe Fischbach, City Clerk

Cottage Grove Business Park

Alternative Urban Areawide Review (AUAR) Update
February 2022

Prepared for the
City of Cottage Grove, MN

By
Stantec Consulting Services, Inc.

Table of Contents

1. Project Title 4
2. Proposer 4
3. RGU 4
4. Reason for AUAR Preparation 4
5. Project Location 4
6. Project Description 6
7. Cover Types 11
8. Permits and Approvals Required 13
9. Land Use 15
10. Geologic Hazards and Soil Conditions 18
11. Water Resources 19
12. Solid Wastes, Hazardous Wastes, Storage Tanks 23
13. Fish, Plant Communities, and Sensitive Ecological Resources 24
14. Historic Properties 26
15. Visual 26
16. Air 27
17. Noise 27
18. Transportation 28
19. Cumulative Potential Effects 35

Mitigation Plan Update

Any updates to the Mitigation Plan are discussed in each corresponding section of the AUAR Update

List of Appendices

Appendix A City Council Ordering Resolution
Appendix B AUAR Update Comments

List of Figures

6-1 Development since 2018 AUAR
6-2/3 Development Scenarios
9-1 2040 Future Land Use

List of Tables

Table 6-1: Development Scenarios 8
Table 7-1: Existing Land Cover in the AUAR Area 11
Table 7-2: Future Land Use and Land Cover Calculations for Developed Land 12
Table 7-3: Existing and Proposed Land Cover in the AUAR Area..... 13
Table 8-1: Anticipated Approvals and Permits Required..... 13
Table 18-1: LOS and Queue Lengths, Existing Year 2022.....30
Table 18-2: LOS and Queue Lengths, No Build Year 2040.....31
Table 18-3: LOS and Queue Lengths, Full Build Year 2040.....33

Introduction

As the Responsible Governmental Unit (RGU), the City of Cottage Grove adopted the Cottage Grove Business Park Alternative Urban Areawide Review (AUAR) and Mitigation Plan on January 3, 2018 (2018 AUAR). The AUAR evaluated the existing business park and expansion to the south. The City was previously under consideration as a location of a business of statewide significance in terms of size and economic impact and completing the AUAR process was part of attracting the potential business to Cottage Grove by reducing the time necessary to complete a required environmental review on a case-by-case basis on a site large enough to accommodate the potential user(s). While the business of statewide significance did not locate in Cottage Grove2018, the process continues to offer business and industrial sites as infill opportunities inside the boundaries of the Business Park north of 100th Street and undeveloped land south of the boundaries of the existing Business Park which better positions the City and new users for a timelier entitlement process.

Pursuant to Minnesota Rules, part 4410.3610, subpart 7, an AUAR and plan for mitigation must be revised every five years until all development in the study area has received final development approval. Since the AUAR area has not been fully developed, the purpose of this document is to update the AUAR pursuant to Minnesota Rules. This document is supplemental to the 2018 AUAR.

AUAR Area

The AUAR area is approximately 1,767 acres in the City of Cottage Grove. It is bounded by US Trunk Highway 61(TH-61) to the north, generally Heath Avenue South to the west, 110th Street South to the southwest, and 100th Street South to the southeast. Approximately half of the AUAR area is contained in the Cottage Grove Business Park north of existing 100th Street which features such companies as Werner Electric, Up North Plastics, and Renewal by Andersen. Vacant sites as large as 50 acres in the Business Park are still being marketed by the City of Cottage Grove.

1. Project Title

Cottage Grove Business Park Area Alternative Urban Areawide Review and Mitigation Plan Update 2022

2. Proposer

Proposer	City of Cottage Grove
Contact	Jennifer Levitt
Title	City Administrator
Address	12800 Ravine Parkway South Cottage Grove, MN 55016
Phone	651.458.2800
Email	jlevitt@cottagegrovemn.gov

3. RGU

Proposer	City of Cottage Grove
Contact	Jennifer Levitt
Title	City Administrator
Address	12800 Ravine Parkway South Cottage Grove, MN 55016
Phone	651.458.2800
Email	jlevitt@cottagegrovemn.gov

4. Reason for AUAR Preparation

The Cottage Grove Business Park AUAR (2018 AUAR) was adopted on January 3, 2018. This document is an update to the 2018 AUAR pursuant to Minnesota Rules, part 4410.3610, subpart 7. The Cottage Grove Business Park and surrounding undeveloped areas were previously the subject of large business searches through the Department of Employment and Economic Development (DEED) and Greater MSP. The AUAR process was used to reduce the time necessary to complete a required environmental review on a case-by-case basis. The AUAR provides the City with an adopted environmental review document and a Mitigation Plan sufficient to accommodate major business developments in its business park.

5. Project Location

County: Washington County
City: Cottage Grove, MN
PLS Location (¼, ¼, Section, Township, Range): All or a portion of Sections 16, 17, 20, 21, 22, 28, and 29; Township 27 North, Range 21 West
Watershed (81 major watershed scale): Mississippi River – Twin Cities Watershed, Lower Minnesota River

GPS Coordinates: Approximately 44.814262, -92.951501

Attach each of the following maps to the EAW: county map, USGS map, and a site plan. *AUAR Guidelines: The county map is not needed for an AUAR. The USGS map should be included. Instead of a site plan, include: (1) a map clearly depicting the boundaries of the AUAR and any subdistricts used in the AUAR analysis; (2) land use and planning maps as required in conjunction with items 9 and 27; and (3) a cover type map as required for item 10. Additional maps may be included throughout the document wherever maps are useful for displaying relevant information.*

6. Project Description

a. Provide a project summary of 50 words or less to be published in the *EQB Monitor*.

The City of Cottage Grove is updating the 2018 Alternative Urban Areawide Review (AUAR) for their existing business park and an expansion area to the south. The AUAR update is analyzing one of the scenarios in the original 2018 AUAR and an updated scenario based on several proposed development projects within the expansion area to the south.

b. Give a complete description of the proposed project and related new construction, including infrastructure needs. If the project is an expansion include a description of the existing facility. Emphasize: 1) construction, operation methods and features that will cause physical manipulation of the environment or will produce wastes, 2) modifications to existing equipment or industrial processes, 3) significant demolition, removal or remodeling of existing structures, and 4) timing and duration of construction activities.

The total area of the AUAR project is approximately 1,767 acres in the City of Cottage Grove. Of that total, 677 acres of the AUAR area is within the existing Cottage Grove Business Park north of existing 100th Street and 571 acres is the proposed expansion of the Business Park to the south in undeveloped or farmland.

The Business Park north of existing 100th Street has experienced infill of new or expanded businesses of approximately 1.5 million square feet (see Figure 6-1). This area has an existing roadway and utility system that has supported this business infill since prior to the 2018 AUAR and its growth was accommodated in that AUAR analysis, particularly related to traffic needs. The area of the AUAR south of 100th Street was defined as the expansion area and the priority for analysis since it was undeveloped and under consideration for the large business of statewide significance.

Due to the existing versus proposed development patterns on either side of 100th Street in 2018, assumptions were made in the 2018 AUAR that now require clarification. Development patterns have diverged from those assumed in 2018 away from a large, impactful industrial user to a standard and uniform filling in of the Business Park with similar users. Many of the mitigation strategies were anticipated necessary for that "large" user but not for infill business of a similar nature to what is currently in the Business Park. Since an AUAR is a living document, this update rectifies this ambiguity by defining a "large" user as:

1. Any business or residential development that either meets the required EIS threshold on its own, or
2. Is larger than 300,000 square feet and proposed for undeveloped land south of 100th Street.

This AUAR continues to prioritize analysis and mitigation of proposed development south of 100th Street while ensuring infill growth in the Business Park is accommodated. The City has recently received development interest for both industrial and residential uses within the AUAR area south of 100 Street Street. The City also plans to construct a new water treatment facility within the AUAR area which was anticipated on a different site in the 2018 AUAR.

While specific details are still unknown for the proposed projects, some general information is included below.

1) ***Construction***. The existing land use for the properties under development consideration is predominantly undeveloped agricultural land. Development activities in this area will cause physical manipulation of the environment and will produce construction wastes.

2) ***Modifications to existing equipment or industrial processes***. None.

3) ***Significant demolition, removal, remodeling***. None.

4) ***Timing and duration of construction***. After any project receives final approval, construction is anticipated to take several months up to several years, depending on project size and phasing.

Figure 6-1 Development Since 2018 AUAR

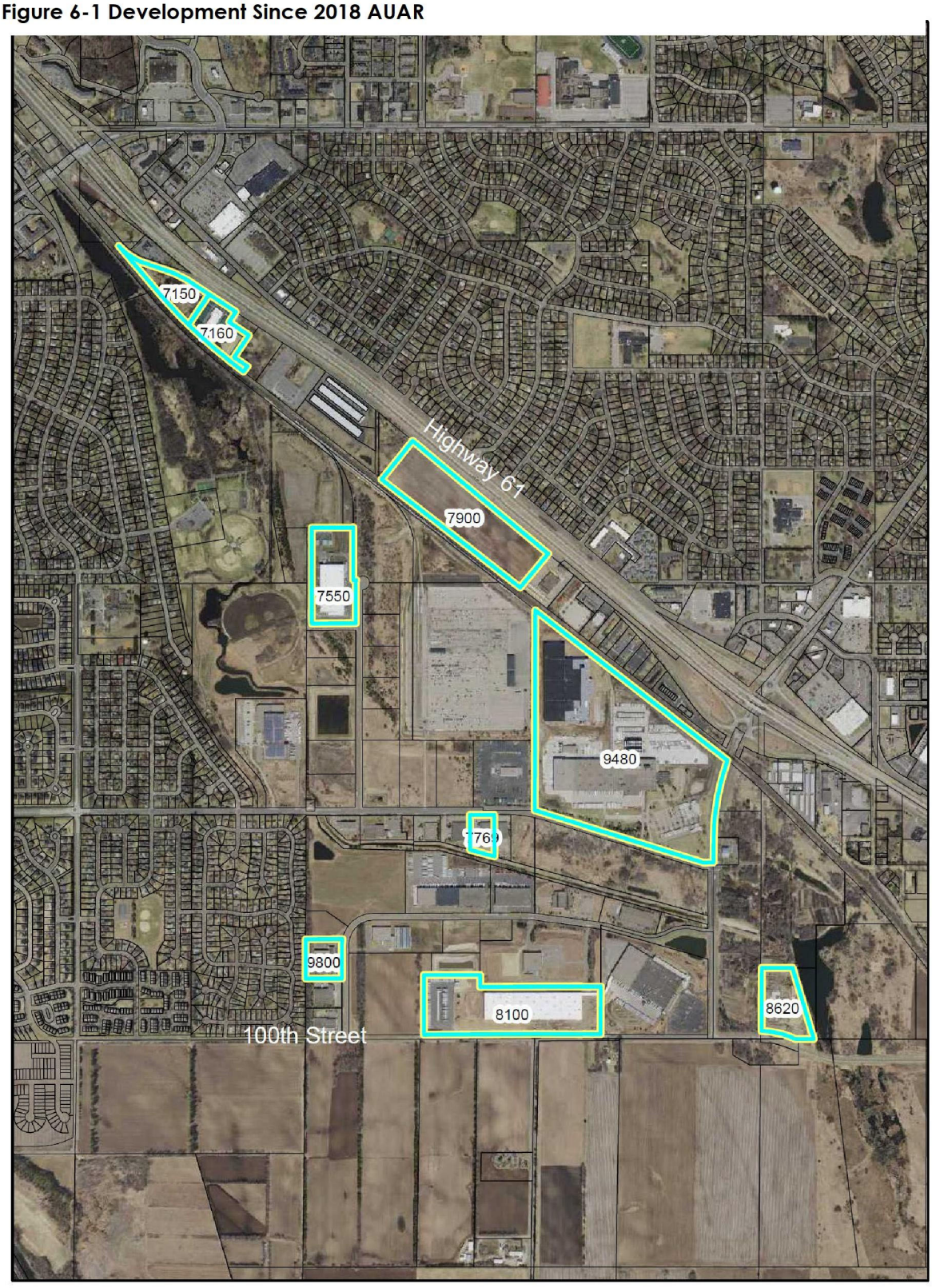


Figure 6-1: Development Since 2018 AUAR January 2022

c. Project Magnitude

Total AUAR Acreage: 1,767 acres

There are changes to the development scenarios since the 2018 AUAR. Table 6-1 summarizes the development magnitude data for each AUAR Development Scenario, and Figures 6-2 and 6-3 provides maps for each Development Scenario. This AUAR Update uses the following two Development Scenarios.

Development Scenario 1 (2018 AUAR Scenario B)*:* The 2018 AUAR Scenario B is used as Development Scenario 1. This scenario assumes 421 acres of the AUAR area is used for either distribution center uses – or warehousing - south of 100th Street. This would require a phased approach for a large user to accommodate the time constraints of the existing Agricultural Preserve land along Ideal Avenue. Forty acres of property would be used for a City-owned Water Treatment Plan, a small portion would accommodate existing commercial and mixed uses, and a 93-acre section in the southwest corner of the AUAR area would be set-aside for single-family residential. 293 acres will be maintained as vacant or agriculture within the AUAR area.

Note that the acreages for this Development Scenario have been updated from the 2018 Scenario B numbers based on a recent GIS analysis.

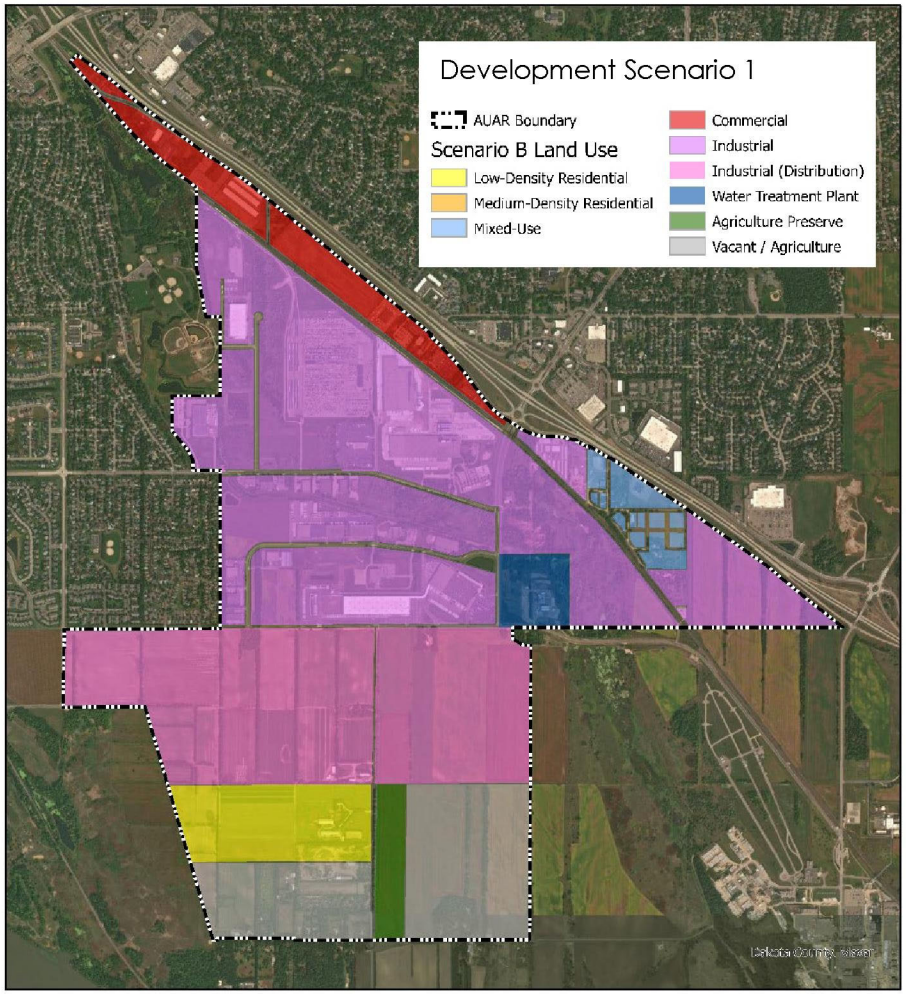
Development Scenario 2 (2021 Updated Scenario): This scenario aligns with proposed projects in terms of location and uses as residential, industrial, and public development projects within the AUAR area. The southwest area of the AUAR area assumes a total of 257.4 acres of medium-density and low-density residential uses. Along 110th Street S, approximately 29 acres is set aside for the City's proposed Water Treatment Plant (WTP) and 10 acres is allocated as vacant or agriculture. The remainder of the AUAR area that is undeveloped, generally located south of 100 Street S assumes industrial development (1,248.1 acres).

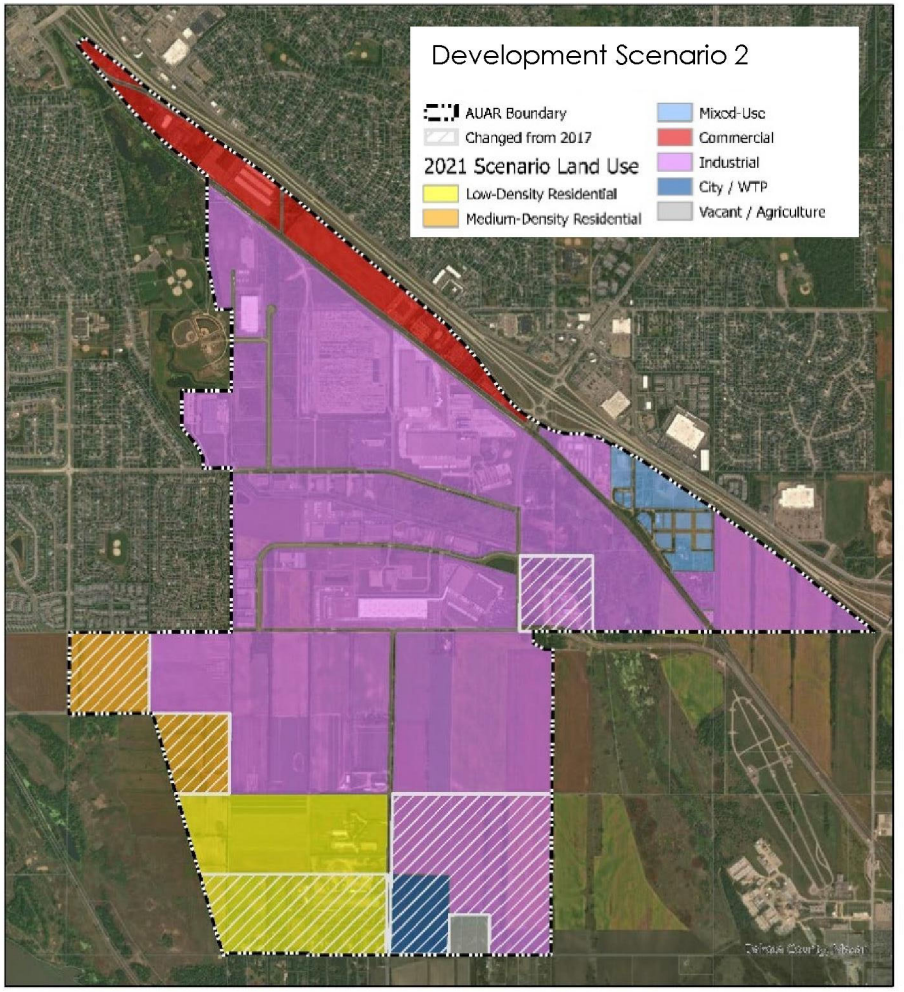
Table 6-1: Development Scenarios

Land Use		Development Scenario 1 (2018 Scenario B)		Development Scenario 2 (2021 Updated Scenario)
Residential		98.9 acres		257.4 acres
Commercial		96.0 acres		96.0 acres
Mixed Use		35.1 acres		35.1
Industrial	General	774.9 acres	1,202.8 acres	1,248.1 acres
	Distribution	427.9 acres		
Water Treatment Plant		40 acres		28.9 acres
Vacant / Agriculture		214.4 acres		10.0 acres

Agriculture Preserve	30.7 acres	0 acres
Other (Right-of-way, Open Space, Water)	49.1 acres	91.5 acres
Total	1,767 acres	1,767 acres

Figures 6-2 and 6-3. Development Scenarios





d. Explain the project purpose; if the project will be carried out by a governmental unit, explain the need for the project and identify its beneficiaries.

The Cottage Grove Business Park AUAR area consists of 1,767 acres of land set aside for primarily industrial uses. 2018The City of Cottage Grove has recently received interest from developers for residential and industrial-use projects south of 100th Street in undeveloped/farmland.

As an update to the 2018 AUAR, this study is meant to analyze growth options and impacts for industrial users in the existing Business Park as well as in a proposed expansion area. Beyond the desire to accommodate future industrial businesses in the AUAR area, land is set aside for a new public Water Treatment Plan (WTP) in addition to residential uses in the southwest AUAR area.

This AUAR will not only offer business and industrial sites outside the boundaries of the existing Business Park, but it will also better position the city and new users for a timelier approval process. New industrial development in Cottage Grove would offer additional job opportunities to nearby residents. Conversely, more job options in Cottage Grove builds the base and demand for residential growth in other parts of the city.

e. Are future stages of this development including development on any other property planned or likely to happen? □Yes x No
If yes, briefly describe future stages, relationship to present project, timeline, and plans for environmental review.

f. Is this project a subsequent stage of an earlier project? □ Yes x No

7. Cover Types

The existing cover types remain unchanged since 2018. Existing land cover is provided in Table 7-1.

Table 7-1: Existing Land Cover in the AUAR Area

Land Cover Category	Before (acres)
Wetlands	329.12 [1]
Deep water/streams	0
Wooded/forest	0.26
Brush/Grassland	0
Cropland	1,002.97
Lawn/landscaping	0
Impervious surface	423.15
Stormwater Pond	2.95[1]
Other (describe)	0
TOTAL	**1,766.88**

[1] Of the 2.95 acres of stormwater ponds in the AUAR area, .55 acres are currently classified as Wetlands by the MLCCS

Proposed land cover associated with each Development Scenario is outlined in Table 7-2. Acreages for different future land cover types have been determined using the following assumptions:

1. Assume that all wetland areas remain constant due to regulatory statute. Some disturbance may occur, but overall acreage will remain the same. Assume that stormwater ponds that are not classified as wetlands by the MLCCS also remain constant.
2. Assume maximum lot impervious percentages for developed property, as allowed in the City's zoning code. These percentages are listed in table 7.2 for reference.
3. Assume that the "other" land use category, which includes right-of-way, open space, and water, is 80% impervious. It is safer to assume loss of impervious surface than assume a natural cover type.
4. Assume that developed land that is not impervious is either wetland, wooded/forest, or lawn/landscape.

Table 7-2 below outlines the land cover calculations for developed land in Scenarios 1 and 2, based on the assumptions listed above. Under Scenario 1, approximately 1,195.9 acres of impervious surface will be developed in the AUAR area. Under Scenario 2, approximately 1,224.2 acres of impervious surface will be developed in the AUAR area. Given the assumptions that non-impervious developed land is either wetland, wooded/forest, and lawn/landscape, the remainder of cover type acreages were determined. These acreages are listed in Table 7-3.

Table 7-2: Future Land Use and Land Cover Calculations for Developed Land

Land Use	Percent Impervious	Development Scenario 1		Development Scenario 2	
		Gross Acres	Impervious Acres	Gross Acres	Impervious Acres
Residential	50%	98.9	49.5	257.4	128.7
Commercial	80%	96.0	76.8	96	76.8
Mixed Use	80%	35.1	28.1	35.1	28.1
Industrial	80%	1,202.8	962.2	1,248.1	998.5
Water Treatment Facility	100%	40	40	28.9	28.9
Other (Right-of-way, Open Space, Water)	80%	49.1	39.3	91.5	73.2

Table 7-3: Existing and Proposed Land Cover in the AUAR Area

	Before	After	
		Development Scenario 1	Development Scenario 2
Wetlands	329.12[1]	329.12[1]	329.12[1]
Deep water/streams	0	0	0
Wooded/forest	0.26	0.26	0.26
Brush/Grassland	0	0	0
Cropland	1,002.97	51.5	51.5
Lawn/landscaping	0	187.15	158.85
Impervious surface	423.15	1,195.9	1,224.2
Stormwater Pond	2.95[1]	2.95[1]	2.95[1]
Other (describe)	0	0	0
TOTAL	**1,766.88**	**1,766.88**	**1,766.88**

[1] Of the 2.95 acres of stormwater ponds in the AUAR area, .55 acres are currently classified as Wetlands by the MLCCS.

As illustrated in Table 7-3, the largest changes in land cover types for the AUAR area is a reduction in cropland and an increase in impervious surfaces. There is also a significant increase in lawn/landscaping. It is important to note that these land cover type changes are based on two generic development scenarios. An approved site plan for any future development should be analyzed to provide exact calculations for cover type change.

8. Permits and Approvals Required

List all known local, state and federal permits, approvals, certifications and financial assistance for the project. Include modifications of any existing permits, governmental review of plans and all direct and indirect forms of public financial assistance including bond guarantees, Tax Increment Financing and infrastructure. *All of these final decisions are prohibited until all appropriate environmental review has been completed. See Minnesota Rules, Chapter 4410.3100.*

Table 8-1 lists all permits that are anticipated to be required or may be required depending on the specific project type, for development in the AUAR area.

Table 8-1: Anticipated Approvals and Permits Required

Unit of Government	Type of Approval or Permit	Status Update
City of Cottage Grove	Comprehensive Plan Updates and/or Amendments	Applicable to future development.
	Rezoning	
	Preliminary and Final Plat	

	Sign Permits	
	Park Dedication	
	Site Plan Review	
	Certificate of Occupancy	
	Interim Conditional Use Permit	
	Conditional Use Permit	
	Planned Unit Development Approval	
	Subdivision Approval	
	Excavation and Grading Permits	
	Sewer Connection Permits	
	Water Connection Permits	
	Utility Permits	
	Building Permits	
	MN Local/State/Federal Application for Water/Wetland Projects and the Wetland Replacement Plan Supplement	
South Washington Watershed District	Project Review Approval	
Washington County	County Roadway Improvements (minor arterials)	
	County Roadway Access permits	
	Sanitary Sewer Plan Approval	
	Small Generator Hazardous Waste Permits	
Minnesota Department of Transportation	Level 2 Layout with any improvements to -TH-61	
	Application for Drainage Permit	
	Right-of-way permit for work within or affecting MnDOT right-of-way	
Minnesota Department of Health	Water Main Plan Review	
	Notification or Permit for Well Construction or Alteration	
	Notification or Permit for Well Sealing	
Minnesota Department of Agriculture	Metropolitan Agricultural Preservation Program "Notice of Expiration" form	
Minnesota Department of Natural Resources	Public Waters Work Permit	
	Water appropriation permit and pre-construction permit (for new municipal well, if well needed)	
	Temporary Water Appropriation Permit for construction dewatering	
	Utility Crossing Permit	
	Wetland Permit	
	Natural Heritage Program Coordination	
Minnesota Pollution Control Agency	Air Emission Facility Permit	
	401 Water Quality Certification	
	NPDES MS4 Stormwater Discharge Permit	
	NPDES Stormwater Permit	
	Sanitary Sewer Extension Permit	
Metropolitan Council	Comprehensive Plan Amendment (or incorporation into 2040 Plan)	

	Wastewater System Nonobjection Decision MCES connection permit MCES encroachment permit Industrial permit (wastewater)	
U.S. Army Corps of Engineers	Clean Water Act Section 404/10 Wetland Permits	

9. Land Use

a. Describe:

i. Existing land use of the site as well as areas adjacent to and near the site, including parks, trails, prime or unique farmlands.

The existing land use within the AUAR area has remained unchanged since the 2018 AUAR was completed. The land use is predominantly agricultural in the southern half and industrial in the northern half, with commercial and mixed-use areas fronting TH-61. Land to the southeast of the AUAR area is also industrial in use.

ii. Plans. Describe planned land use as identified in comprehensive plan (if available) and any other applicable plan for land use, water, or resources management by a local, regional, state, or federal agency.

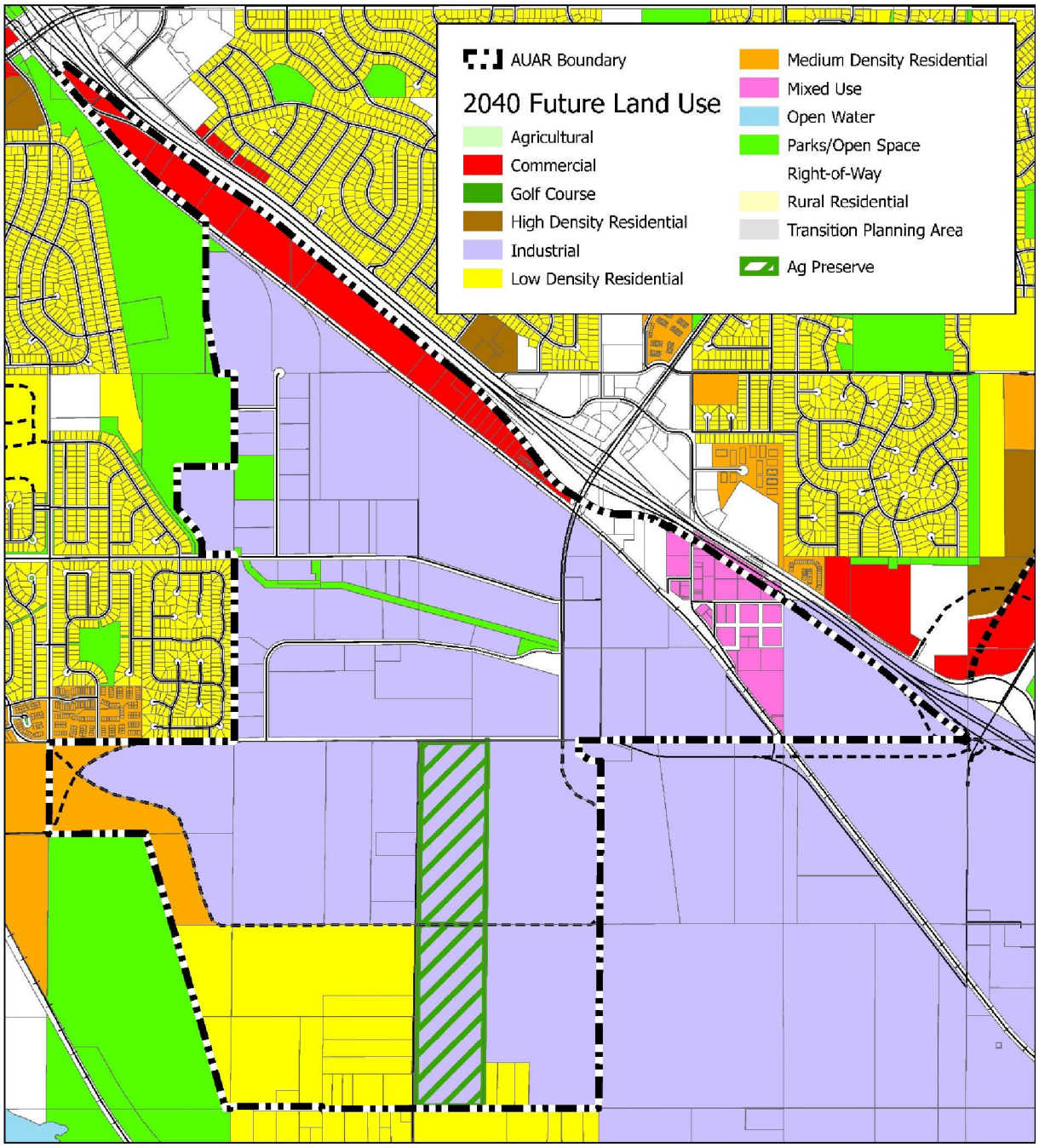
During the 2018 evaluation, the majority of the AUAR area was guided as Industrial, and a significant portion of the area in the southwest was guided as Transitional Planning by the City of Cottage Grove's 2030 Comprehensive Plan. The City of Cottage Grove's current Comprehensive Plan for 2040 was adopted in October 2020. The Transitional Planning areas within the AUAR area were re-guided as part of the Comprehensive Plan update. The 2040 Future Land Use Plan re-guided them to Industrial, Medium Density Residential, and Low-Density Residential categories.

The land use for the proposed projects within the AUAR area are consistent with the 2040 Future Land Use Plan and therefore it is not anticipated that a comprehensive plan amendment will be required for development to proceed.

Agriculture Preserve. A portion of the AUAR area lies within the Agriculture Preserve overlay, which is shown on the 2040 Future Land Use Plan and has remained unchanged from the 2030 Future Land Use Plan. However, Development Scenario 2 (the updated 2021 scenario) does not include the agriculture preserve as part of the scenario. The property owner recently removed this area from the Agriculture Preserve, and therefore Development Scenario 2 is in alignment with the status of the Agriculture Preserve.

The City's 2040 Land Use Plan for the AUAR area is illustrated in Figure 9-1.

Figure 9-1. 2040 Future Land Use



2040 Future Land Use

Business Park Project AUAR Update
Cottage Grove, Minnesota

June 2021

N 0 1,000 2,000 Feet

Stantec

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iii. Zoning, including special districts or overlays such as shoreland, floodplain, wild and scenic rivers, critical area, agricultural preserves, etc.

Since the 2018 AUAR, one rezoning is in process for an industrial use to bring it into consistency with the 2040 Comprehensive Plan. There have been no changes to the floodplain management overlay districts.

For properties south of 100th Street where development interest has been focused for large industrial users and residential development, the zoning is consistent with the existing land use, which is predominantly agriculture in nature. However, the zoning is inconsistent with the development scenarios and the comprehensive plan and rezoning of these properties will be a necessary step as part of project approvals.

b. Discuss the project's compatibility with nearby land uses, zoning, and plans listed in Item 9a above, concentrating on implications for environmental effects.

Development Scenario 1 (2018 Scenario B)

In Development Scenario 1 (see Figure 6-2), the proposed industrial, commercial, and mixed-use areas north of 100th Street are consistent with plans for future land use and zoning. There are existing residential neighborhoods to the west of the AUAR area. Industrial development may conflict with these residential areas if proper mitigation is not in effect. Possible visual, air, noise, and traffic issues are discussed in questions 15, 16, 17, and 18, respectively.

South of 100th Street, the land in the AUAR area is planned for industrial, low-density, and medium-density residential uses in the 2040 Future Land Use Plan. In this Development Scenario, distribution center (industrial), low-density residential, agriculture preserve, and vacant/agriculture uses are assumed. Potential conflicts may exist between the proposed distribution center and the proposed residential uses immediately south without a buffer area. Possible visual, air, noise, and traffic issues are discussed in the 2018 AUAR questions 15, 16, 17, and 18, respectively. Additionally, this scenario does not match the 2040 Future Land Use for all properties south of 100th Street so would require a comprehensive plan amendment should projects materialize under this scenario.

South of 100th Street, the land is zoned for agricultural uses (AG1 and AG2). Areas occupied by the proposed distribution center, water treatment plant, and single-family residential uses will need to be rezoned to Industrial (I1) and Single Family Residential (R3).

Development Scenario 2 (Updated 2021 Scenario)

As with Development Scenario 1, the land uses for Development Scenario 2 (see Figure 6-3) for areas north of 100th Street are consistent with plans for future land use and zoning. There are existing residential neighborhoods to the west of the AUAR area. Industrial development may conflict with these residential areas if proper mitigation is not in effect. Possible visual, air, noise, and traffic issues are discussed in questions 15, 16, 17, and 18, respectively.

South of 100th Street, this Development Scenario is also consistent with the 2040 Future Land Use Plan, which includes low-density and medium-density residential and industrial land uses. Within the AUAR area, potential conflicts may exist between the proposed industrial uses and the proposed residential uses immediately south without a buffer area. There are no potential conflicts adjacent to the AUAR area as these areas are undeveloped or are existing agriculture uses. All projects in this area will require rezoning.

c. Identify measures incorporated into the proposed project to mitigate any potential incompatibility as discussed in Item 9b above.

See below.

QUESTION 9 MITIGATION STRATEGIES UPDATE

2018 AUAR Mitigation Strategies	Update
Update the City's Comprehensive Plan to adopt the new proposed land uses.	Complete.
Update zoning to reflect the change in use from Agricultural to Industrial and Residential south of 100th Street.	Applicable to future development.
Develop adequate sight and sound buffers between residential and industrial uses, as determined through the site plan review process and discussed in Questions 15 and 17.	
Manage traffic from industrial uses, particularly in adjacent residential communities, as discussed in Question 18.	
Future development in the Mississippi River Critical Area will need to comply with the City's critical area plan and accompanying regulations in accordance with MRCCA and MNRRA requirements.	

10. Geologic Hazards and Soil Conditions

The 2018 AUAR documented elevated potential for karst features and sensitivity of the underlying aquifers to contamination in the project area and outlined mitigation strategies to address these issues.

The mitigation strategies outlined previously are still applicable to large development projects as defined in this Update's Question 6 Project Description.

There are no anticipated changes to this AUAR category.

QUESTION 10 MITIGATION STRATEGIES UPDATE

2018 AUAR Mitigation Strategies	Update
The elevated potential for karst features in the project area can be partially mitigated by undertaking geophysical surveys in combination with test drilling to help identify underground cavities in danger of collapse. Since the survey effort can be costly over large areas, it is	

recommended that any surveys are concentrated where large structures may be located.	Applicable to future development defined as a "large" project.
As development occurs in any areas with elevated potential for karst features, testing will be required to verify that infiltration is a viable option so stormwater runoff does not impact nearby wetlands. In the event that infiltration is not a viable option due to high infiltration rates within a karst area that could potentially create a sinkhole, filtration will be required to meet the stormwater requirements of the City and Watershed. Any proposed development may also direct their stormwater runoff to a different portion of their site if an area is suitable for infiltration within a karst area.	
Sensitivity of the underlying aquifers to contamination can be mitigated by applying best management practices to reduce spills and leaks, complying with the City's Wellhead Protection Plan for aquifer management. Any storage tanks with hazardous substances should have secondary containment, along with monitoring devices to detect any leakage. Additionally, vehicles containing fuels and other hazardous substances should be parked over impervious surfaces whenever possible, with containment in place to prevent runoff of contamination.	

11. Water Resources

a. Describe surface water and groundwater features on or near the site in a.i. and a.ii. below.

There are no anticipated changes to this AUAR category.

b. Describe effects from project activities on water resources and measures to minimize or mitigate the effects in Item b.i. through Item b.iv. below.

i. Wastewater - For each of the following, describe the sources, quantities and composition of all sanitary, municipal/domestic and industrial wastewater produced or treated at the site.

There are no anticipated changes to this AUAR category.

ii. Stormwater - Describe the quantity and quality of stormwater runoff at the site prior to and post construction. Include the routes and receiving water bodies for runoff from the site (major downstream water bodies as well as the immediate receiving waters). Discuss any environmental effects from stormwater discharges. Describe stormwater pollution prevention plans including temporary and permanent runoff controls and potential BMP site locations to manage or treat stormwater runoff. Identify specific erosion control, sedimentation control or stabilization measures to address soil limitations during and after project construction.

A new Surface Water Management Plan (SWMP) was completed for Cottage Grove in 2019. None of the assumptions and analysis from the 2018 AUAR have changed with the updated SWMP, however.

iii. Water appropriation - Describe if the project proposes to appropriate surface or groundwater (including dewatering). Describe the source, quantity, duration, use and

purpose of the water use and if a DNR water appropriation permit is required. Describe any well abandonment. If connecting to an existing municipal water supply, identify the wells to be used as a water source and any effects on, or required expansion of, municipal water infrastructure. Discuss environmental effects from water appropriation, including an assessment of the water resources available for appropriation. Identify any measures to avoid, minimize, or mitigate environmental effects from the water appropriation.

Water Supply for the AUAR area will be provided by the City of Cottage Grove municipal water system. The City has added a groundwater well since 2018 to total 12 groundwater wells to meet City water demand. The current total well capacity exceeds water usage and current water storage also exceeds the recommended capacity, but there is the complicating factor of exceeding the health index to due PFA's. The water mains supplying the AUAR area were designed for future growth capacity and to provide maximum fire flow capacity. Growth of the water system has generally followed the planning established in the Water Supply and Distribution Plan, dated January 2006. The City has also completed more recent water system planning with the 2016 DNR Water Supply Plan, which included updated per capita water demand requirements for the City. That plan did not, however, build a new model, so the demands and trunk main sizes established in the 2006 model are still being used for development guidance.

The DNR Water Supply Plan completed in December 2016 identified additional water supply and storage planned within the City to support future development. The City water system is divided into three interconnected pressure zones to provide optimum water system pressures to all customers. A new well within the High-Pressure Zone has been added since the 2018 AUAR to provide additional operational flexibility and reduced pumping costs. The High Zone Wells are very low in PFAS, so they are being pumped directly to the system after chemical addition at the pumphouse. Additional storage in the Low-Pressure Zone is currently being designed to support growth in the Industrial Park.

The portion of the AUAR area north of 100th Street has some of the existing trunk water distribution system with water services stubbed into most of the parcels that remain undeveloped. The trunk water system has been designed as part of the overall Water Supply and Distribution Plan developed by the City to accommodate development in this area, based on the ultimate land use plan for the City. Additional water supply and storage will be required, as noted in the 2018 AUAR, comprehensive plan, and DNR Water Supply Plan.

The area south of 100th Street does not have any significant stretches of trunk water system constructed within the boundaries of the AUAR. The future trunk water system will be an expansion of the Low-Pressure Zone, as detailed in the 2006 Water Supply and Distribution Plan and as modified due to recent changes in trunk facility locations. Recent development inquires for parcels south of 100th Street led the City to complete conceptual trunk water system planning. Most recently, a current Stantec evaluation is being completed to detail trunk water system requirements to serve a large portion of the AUAR area south of 100th Street and to serve the proposed Low Zone Water Treatment Plant. The Low Zone Water Treatment Plant will have a capacity of 4.5 MGD and will be supplied by existing Well 10 and future Wells 13 and 14.

The City has identified 18 potential sites for future water supply wells. The growth of the well field is dependent on several factors, including the location of treatment facilities,

increases in water demand, the effectiveness of water conservation programs, the presence of groundwater contamination in southern Washington County, and the overall sustainability of the Prairie du Chien-Jordan aquifer system. The City is currently included in the DNR's North and East Metro Groundwater Management Area, which was identified as a region of the State where groundwater levels could become critical if water usage outpaces the ability of the aquifer(s) to recharge themselves. Any future wells planned for Cottage Grove will undergo review by DNR staff to determine their potential impact to the aquifer and other nearby private wells. A condition of obtaining an amended appropriation permit to add new wells to the system may include some conditions, including long-term water level monitoring and water conservation programs. If impacts to natural resources or private wells are determined to occur, the DNR may require that municipal wells creating the impact are either reduced in pumping rate or taken offline until those impacts can be addressed. Mitigation will depend on the type of impact and how many wells it impacts.

Additionally, the aquifer(s) that supply the City's municipal wells are impacted by Perflourochemical (PFAS) contamination that originates from a number of landfills in southern Washington County. Changing health guidelines for PFAS contamination have necessitated the construction of the three temporary water treatment plants within Cottage Grove to maintain flows to meet current demands. These temporary water treatment plants will be replaced by two permanent water treatment plants which are currently in the early design stages. One of these two permanent plants will be located within the AUAR.

iv. Surface Waters

a) Wetlands - Describe any anticipated physical effects or alterations to wetland features such as draining, filling, permanent inundation, dredging and vegetative removal. Discuss direct and indirect environmental effects from physical modification of wetlands, including the anticipated effects that any proposed wetland alterations may have to the host watershed. Identify measures to avoid (e.g., available alternatives that were considered), minimize, or mitigate environmental effects to wetlands. Discuss whether any required compensatory wetland mitigation for unavoidable wetland impacts will occur in the same minor or major watershed, and identify those probable locations.

b) Other surface waters- Describe any anticipated physical effects or alterations to surface water features (lakes, streams, ponds, intermittent channels, county/judicial ditches) such as draining, filling, permanent inundation, dredging, diking, stream diversion, impoundment, aquatic plant removal and riparian alteration. Discuss direct and indirect environmental effects from physical modification of water features. Identify measures to avoid, minimize, or mitigate environmental effects to surface water features, including in-water Best Management Practices that are proposed to avoid or minimize turbidity/sedimentation while physically altering the water features. Discuss how the project will change the number or type of watercraft on any water body, including current and projected watercraft usage.

Development in the AUAR area includes the construction of a water treatment plant (WTP). The 2018 AUAR anticipated the WTP in an area with potentially impacted NWI-mapped wetlands on-site. Impacts would have required filling and dredging the site's unconsolidated bottom pond (Cowardian classification PUBG) and the emergent freshwater wetlands (PEMA) associated with the pond.

The updated development scenario anticipates the new location for the WTP along the southern boundary of the AUAR area. This is an area with no identified wetlands which

has alleviated the challenges identified to wetlands in the 2018 AUAR area.

QUESTION 11 MITIGATION STRATEGIES UPDATE

2018 AUAR Mitigation Strategies	Update
The City of Cottage Grove must provide written explanation of the chosen location of the Water Treatment Plant and explain why wetland impacts were unavoidable.	Not applicable anymore due to change in location.
Should alternative locations not be feasible, then the City of Cottage Grove will design the WTP in a manner that will minimize and avoid wetland impacts to the greatest practicable extent. The USACE and LGU, and other appropriate stakeholders, will be consulted during this process.	Not applicable anymore due to change in location.
On-site wetland mitigation will be considered if there are wetland restoration opportunities located within the AUAR area that would yield wetland mitigation credit. Wetland banking shall be used if on-site locations are not available and/or if agencies recommend the use of a wetland bank.	Applicable to future development as defined as a "large" project.
If the proposed location is selected, standard best management practices (e.g., silt fence, sediment control logs, etc.) will be utilized during construction to avoid and minimize turbidity, sedimentation, stormwater runoff and other potential effects to this waterway.	
If shallow perched groundwater is encountered during construction that requires dewatering, a DNR water appropriation permit will be required prior to dewatering taking place.	
All project activities should comply with the City's Wellhead Protection Plan and follow best management practices to avoid spills or leaks which could threaten groundwater resources.	
Unused or abandoned wells which are encountered during project construction are required to be sealed by a licensed well contractor, according to State Well Code.	
Activities below the ordinary high water (OHW) elevation of public water wetland 82008600 may require a MNDNR public waters permit.	
In areas where sanitary sewer lines currently exist and development occurs in the AUAR, usage rates may be higher than originally intended for the design. In these cases, further evaluation will take place to determine the surcharging that may occur, to verify it will not have negative impacts to downstream properties. If there are lines with insufficient capacity under maximum buildout, they will be replaced with larger lines in the future. The extent and timing that improvements to the existing sewer facilities serving this area are warranted from a capacity standpoint will be dependent on when the proposed sewer flows exceed the capacity. Monitoring of sanitary sewer flows in these lines will determine when replacement is needed. The specific replacement size will be determined at that time and will be based on observed sewer flow rates. In areas without existing trunk sanitary sewer lines, design will account for future upstream development as discussed in the previous paragraphs.	

The MCES will require that connections that serve the AUAR area are to be consolidated to limit the number of overall connections to the 96-inch interceptor. A connection permit will be required for all connections to MCES facilities.	
When any future improvements occur in the vicinity of, or within the existing MCES interceptor easement, an encroachment permit will need to be obtained from the MCES.	
A drainage permit shall be required if current drainage patterns change and drainage rates to MnDOT right-of-way increase. As development is proposed, it will need to supply to MnDOT grading plans showing existing and proposed contours along with drainage area maps for the proposed project(s) showing existing and proposed drainage areas with flow directions indicated by arrows.	
Stormwater BMP requirements will need to be finalized with each site's development within the AUAR. It is likely to be more efficient to continue to satisfy rate control requirements from multiple sites with regional ponding as opposed to multiple smaller ponds. Volume control and water quality BMP requirements will be addressed on-site, as will construction site stormwater management (e.g., erosion and sediment control). Infiltration will be used as required by City Code as appropriate to minimize impacts to groundwater levels. In the event that a stormwater pond is being proposed in a wellhead protection area, necessary steps should be taken that follow the City's MS4 permit, ordinances, and the MPCA's requirements to ensure that infiltration does not occur.	
Should any existing ponding identified in the SWMP be filled as part of site development, then hydraulic analysis shall be required to determine compensatory ponding. Such filling would also fall under Wetland Conservation Act rules and would require City approval with appropriate wetland mitigation.	
Any future wells needed to meet projected demands will need to comply with the DNR's North and East Groundwater Management Plan in order to obtain an appropriation permit for pumping.	
Both existing and future wells will need to be in compliance with PFC contamination guidelines. Wells that are out-of-compliance with either need to be treated or taken out of service.	
Expansion of the trunk water system will be constructed as development occurs. A comprehensive evaluation, incorporating previous studies identified in this section and future changes to land use, will be required to detail the required trunk water main sizing and water supply and storage facilities.	

12. Solid Wastes, Hazardous Wastes, Storage Tanks

Because there has been no large development constructed in the project area to date, there have been no waste items or mitigation strategies to address. The mitigations strategies outlined in the 2018 AUAR are still applicable to each future development project.

There are no anticipated changes to this AUAR category.

QUESTION 12 MITIGATION STRATEGIES UPDATE

2018 AUAR Mitigation Strategies	Update
If demolition is required, complete a pre-demolition Hazardous Building Materials Survey of the existing buildings in accordance with Minnesota Department of Health (MDH) and MPCA requirements prior to the start of demolition activities to determine if any regulated materials are present. A "Notification of Asbestos Related Work" must be submitted to MDH by a licensed asbestos inspector 10 working days prior to conducting abatement activities if thresholds are met. A "Notification of Intent to Perform a Demolition" must be submitted to the MPCA 10 working days prior to the start of demolition. Prepare an Abatement Plan to address the removal and proper disposal of regulated materials identified in the Hazardous Building Materials Survey.	Applicable to future development as defined as a "large" project.
Prepare a Construction Contingency Plan (CCP) to address proper handling, treatment, storage, and disposal of solid wastes, hazardous materials, petroleum products, and other regulated materials/wastes that are used or generated during construction. The CCP would also establish protocols to minimize impacts to soil and groundwater in the event a release of hazardous substances or petroleum occurs during construction. Steps outlined in the CCP will also be implemented in the event that previously unknown hazardous substances or petroleum products (i.e., releases not identified in presently available reports) are encountered during construction activities.	
Demolition and construction wastes will either be recycled or disposed in the proper facilities. Manage MSW according to MPCA and other regulatory requirements.	

13. Fish, Plant Communities, and Sensitive Ecological Resources

Because there has been no large development constructed in the project area to date, there have been no fish, plant communities, and sensitive ecological resource items or mitigation strategies to address. The mitigations strategies outlined in the 2018 AUAR are still applicable to each development project.

There are no anticipated changes to this AUAR category.

QUESTION 13 MITIGATION STRATEGIES UPDATE

2018 AUAR Mitigation Strategies	Update
Although there are no records of NLEB maternity roost trees or a hibernaculum within the AUAR area or a 0.25-mile buffer, when possible, tree clearing, if required, will occur outside of the NLEB pup season, June 1 through July 31. Although a field survey by a qualified biologist could determine the absence/presence of a maternity roost tree within the AUAR area; under the Final 4(d) Rule of the ESA, field surveys are not required to complete due diligence at the site. Prior to tree clearing within the AUAR	Applicable to future development as defined as a

area, the DNR/USFWS-issued list of NLEB records for Minnesota[1] must be consulted to ensure activities will not 1) result in removing a known occupied maternity roost tree, 2) occur within 150 feet of a known occupied maternity roost tree from June 1 through July 31, or 3) occur within 0.25 mile of a hibernaculum at any time. The DNR anticipates updating this list twice annually on April 1 and October 1.	"large" project.
Removal of vegetation should occur outside of this timing window to minimize potential take of migratory birds, if present. If vegetation clearing cannot be avoided during the peak breeding season for migratory birds (approximately mid-March to August 15), a qualified biologist must conduct a pre-construction breeding bird survey within the AUAR area to determine the absence or presence of breeding birds and their nests. Pre-construction breeding bird surveys may include: • Pre-construction surveys that occur no more than two weeks before tree and shrub clearing activities commence. The area surveyed will include the areas where potential suitable habitat has been identified and tree or shrub clearing has not been completed. • If an occupied nest is observed during the survey, tree and shrub clearing activities will not be permitted within a 0.12-mile buffer of the nest site during the breeding season or until the fledglings have left the area. Consult with the USFWS to avoid take of the species. • Upon completion, the survey results will be submitted to the USFWS, as appropriate. If breeding birds are not present, construction can proceed with no restrictions. If breeding birds or active nests are present, additional consultation will be required.	
The results of the DNR NHIS review are typically valid for one year. The NHIS database must be consulted prior to the commencement of construction activities within the AUAR area to identify any new records of rare or otherwise significant species, native plant communities, and other natural features within the AUAR area vicinity.	
Best management practices and erosion and sediment control devices must be used during construction activities to prevent the flow of sediment into wetlands and open water within or adjacent to the AUAR area, which could result in adverse effects to water quality (e.g., turbidity) and aquatic species, if present. Erosion control mesh should be limited to wildlife-friendly materials, given the known occurrences of rare reptiles in the vicinity of the AUAR boundary.	
For any proposed development to minimize impacts to the Grey Cloud Dunes SNA, conservation best management practices should be employed to avoid or minimize off-site impacts in the SNA area such as buffers of native vegetation to provide beneficial habitat and food to pollinators and other wildlife, sensitive placement of roadways to minimize impacts, and creation of vegetated corridors to enhance site ecological diversity whenever possible.	

[1] MNDNR and USFWS. 2018. Townships Containing Northern Long-eared Bat Roost Trees and/or Hibernacula. http://files.dnr.state.mn.us/eco/ereview/minnesota_nleb_township_list_and_map.pdf. April 1, 2018

Any proposed development within the AUAR will need to undergo a Natural Heritage Review prior to any construction activities given the known occurrences of state-listed and threatened species within and adjacent to the AUAR boundary. Depending on project details, rare species surveys may be warranted, and this should be taken into account during project planning.	

14. Historic Properties

The 2018 AUAR did not identify any archaeological, historical, or architectural resources within the AUAR area boundary and there are no anticipated impacts on any listed resources from development within the AUAR area.

There are no anticipated changes to this AUAR category.

QUESTION 14 MITIGATION STRATEGIES UPDATE

2018 AUAR Mitigation Strategies	Update
The City shall conduct a Phase I Archaeological Survey before or at the time a large business is proposed. The survey must meet the requirements of the Secretary of the Interior's Standards for Identification and Evaluation and should include an evaluation of National Register eligibility for any properties that are identified. A survey may not be necessary if the project area can be documented as previously surveyed or disturbed. Note: plowed areas and rights-of-way are not automatically considered disturbed. If historic, cultural, or archaeologically significant features are uncovered in the Phase I Survey, a Phase II survey may be required. Coordination and consultation with the Minnesota State Historic Preservation Office will be necessary.	Applicable to future development as defined as a "large" project.
If a future project requires federal financial assistance, or requires a federal permit or license, then a Section 106 review will be required along with consultant with the Minnesota State Historic Preservation Office.	

15. Visual

Because there has been no new development in the project area south of 100th Street, there have been no scenic views, visual effects, or mitigation strategies to address. The mitigation strategies outlined in the 2018 AUAR are still applicable to each future development project that is defined as a "large" project.

There are no anticipated changes to this AUAR category.

QUESTION 15 MITIGATION STRATEGIES UPDATE

2018 AUAR Mitigation Strategies	Update

Require screening between industrial uses (including data or distribution centers) and neighboring residential uses. Screening will be determined in the site plan review process and may include fencing, berms, coniferous trees, and other plantings. If existing vegetation is in place, it may serve as screening.	Applicable to future development as defined as a "large" project.
In areas adjacent to residential neighborhoods, security lights should be downcast to minimize glare and light pollution. Lighting requirements will be determined in the site plan review process.	
Best management practices shall be used to provide adequate buffering of potentially high human activity in any areas adjacent to the Grey Cloud Dunes SNA.	

16. Air

The 2018 AUAR included a qualitative analysis to demonstrate that there will be no anticipated exceedances of air pollutant concentrations resulting from development within the project area. Therefore, no mitigation measures were necessary.

A series of Best Management Practices (BMPs) would be implemented during construction to control dust, which will apply to each future large development project.

There are no anticipated changes to this AUAR category.

QUESTION 16 MITIGATION STRATEGIES UPDATE

2018 AUAR Mitigation Strategies	**Update**
The qualitative analysis contained in this section demonstrates there will be no anticipated exceedances of air pollutant concentrations resulting from the proposed project; therefore, no mitigation measures are necessary. The State of Minnesota does not require permits for traffic-related emissions for projects of this type. This analysis also demonstrates that no exceedances are anticipated under the construction phase. However, a series of Best Management Practices (BMPs) would be implemented during construction to control dust. This may include the following preventive and mitigative measures: • Minimization of land disturbance during site preparation • Use of watering trucks to minimize dust • Covering of trucks while hauling soil/debris off-site or transferring materials • Stabilization of dirt piles if they are not removed immediately • Use of dust suppressants on unpaved areas • Minimization of unnecessary vehicle and machinery idling	Applicable to future development as defined as a "large" project.
Any proposed development large enough to merit its own environmental review process will analyze stationary source air emissions in more detail consistent with their specific project details.	

17. Noise

The 2018 AUAR identified an increase in traffic volumes to be a potential impact to noise levels within and around the AUAR project area. Any future development project will need to

comply with the State of Minnesota noise standards, which establish allowable noise levels to protect nearby receptors such as residences, commercial and industrial areas, parks and open space. Additionally, all other mitigation strategies outlined in the 2018 AUAR are still applicable to each future development project.

Because there has been no development in the project area south of 100th Street, there have been no noise issues or mitigation strategies to address.

There are no anticipated changes to this AUAR category.

QUESTION 17 MITIGATION STRATEGIES UPDATE

2018 AUAR Mitigation Strategies	**Update**
The AUAR study area will be developed such that where feasible, land use activities sensitive to noise will be suitably setback from existing noise sources such that the potential for noise impact is sufficiently reduced. These details will be determined as the project development proceeds. Once the project is further defined, setback distances from the roadway network within the AUAR area will be reviewed relative to the receptors listed in the above section to determine the potential for the project to exceed State noise standards.	Applicable to future development as defined as a "large" project.
If needed, a noise analysis will be conducted to model the existing and build condition near the AUAR area. The traffic modeling will be completed using MINNOISEV31 (FHWA Stamina model adapted by MnDOT for use in Minnesota). Prior to beginning the noise analysis, the City will meet with MPCA staff to discuss the proposed traffic noise analysis methodology to ensure that State Standards will be met. Daytime noise monitoring will be conducted at predetermined locations on the project site. A build condition noise model will be developed for specified locations on the project site and be compared to State daytime and nighttime noise standards. If State standards are exceeded, an analysis of proposed noise barriers will be prepared according to MnDOT guidance.	
The City should work with the MPCA and MnDOT during project development and planning, as needed, to ensure that road noise setbacks are appropriate. Noise modeling is an effective way to plan land use and development, but the state noise standards are based solely on monitored noise. Thus, conducting noise monitoring, in addition to modeling, would best ensure compliance with state noise standards, especially in areas where proposals include residential development.	
Where feasible, equipment used for any future construction-related activities should be fitted with the appropriate mufflers.	

18. Transportation

a. Describe traffic-related aspects of project construction and operation. Include: 1) existing and proposed additional parking spaces, 2) estimated total average daily traffic generated, 3) estimated maximum peak hour traffic generated and time of occurrence,

4) indicate source of trip generation rates used in the estimates, and 5) availability of transit and/or other alternative transportation modes.

1) Existing parking spaces: Approximately 9,250
   Proposed additional parking spaces in 2018: 19,700
   Proposed additional parking spaces in 2022 Update: 2,000
2) Estimated total AADT generated: 50,500
3) Estimated maximum peak hour traffic generated: 5,400
   Estimated time of occurrence: 4:00 PM
4) Source of trip generation rates: *ITE Trip Generation Manual 10th Edition*
5) There is one bus route that run through or near the study area, and a BRT route is currently being planned.

Cottage Grove is served by a Metro Transit-owned Park and Ride surface parking facility located on the south side of TH-61 between 80th Street South and Jamaica Avenue with access via West Point Douglas Road. Built in 2003, the Park & Ride includes 525 surface parking spaces and includes a passenger waiting facility. No changes have been made to the park-and-ride since 2018.

While in 2018 three bus routes serviced Cottage Grove, only one route is now present in the community and serves the existing park-and-ride. Express route 363 starts and terminates at the park-and-ride while traveling southeast along Highway 61 to Jamaica Avenue and then turns around and heads northwest on Highway 61 to Downtown St. Paul. This reduced service from five years ago is due to the COVID-19 pandemic.

Bike Route – The Mississippi River Trail (MRT) runs through the study area on Hadley Avenue, 97th Street, Jamaica Avenue, 100th Street, Miller Road, and Keats Avenue. The trail runs through the state from west of Bemidji, through the Twin Cities, and on to southeastern MN. This trail will provide a reliable route for bicycle commuters to and from the study area.

b. *Discuss the effect on traffic congestion on affected roads, and describe any traffic improvements necessary. The analysis must discuss the project's impact on the regional transportation system. If the peak hour traffic generated exceeds 250 vehicles or the total daily trips exceed 2,500, a traffic impact study must be prepared as a part of the EAW. Use the format and procedures described in the Minnesota Department of Transportation's Access Management Manual, Chapter 5 or a similar local guidance.*

The Traffic Impact Study (TIS) completed for the 2018 AUAR was updated to account for the updated development scenario as well as changes to the roadway system that have occurred. The TIS focused on the following intersections:

- TH 61 NB Ramps/80th Street
- TH 61 SB Ramps/80th Street
- Hadley Avenue/80th Street
- TH 61 NB Ramps/Jamaica Avenue
- TH 61 SB Ramps/Jamaica Avenue

- Jamaica Avenue/95th Street
- Jamaica Avenue/100th Street
- TH 61 NB Ramps/Innovation Road
- TH 61 SB Ramps/Innovation Road
- Innovation Road/Miller Road

Analysis was completed using Synchro/SimTraffic and Rodel. Intersections changes that have occurred since the 2018 AUAR include the following

- Jamaica Avenue/95th Street – Traffic signal control installed
- TH 61 NB Ramps/Innovation Road – Roundabout control installed for both TH 61 ramps, Keats Avenue to the north, Innovation Road to the south, and East Point Douglas Road.

Existing Conditions

The results of the analysis can be seen in Table 18-1 below. As shown, all intersections and approaches except TH 61 SB/Innovation Road are currently operating at acceptable Levels of Service (LOS). The TH 61 SB/Innovation Road intersection operates at LOS F during the p.m. peak hour.

Table 18.1 - LOS and Queue Lengths for Cottage Grove AUAR
Existing Year 2022

		AM				PM			
Intersection	Direction	95 % Queue	Delay/ Vehicle	APPR LOS	LOS	95 % Queue	Delay/ Vehicle	LOS	LOS
TH 61 NB/ 80th Street	EB	339'	10.3	B	B (15.0)	142'	9.9	A	B (16.9)
	WB	687'	15.5	B		687'	21.3	C	
	NB	98'	37.5	D		137'	35.9	D	
TH 61 SB/ 80th Street	NEB	271'	7.3	A	B (14.7)	194'	38.3	D	C (27.0)
	SWB	94'	6.4	A		174'	16.4	B	
	SB	190'	33.9	C		254'	26.7	C	
Hadley Ave/ 80th Street	SEB	168'	21.8	C	C (31.7)	174'	35.0	C	B (19.3)
	NWB	130'	40.8	D		117'	10.3	B	
	NEB	92'	25.7	C		86'	25.3	C	
	SWB	102'	31.1	C		229'	14.5	B	
TH 61 NB/ Jamaica Ave	NEB	27'	3.5	A	A (3.0)	124'	5.1	A	A (5.4)
	NWB	8'	5.1	A		47'	14.1	B	
	SWB	34'	2.3	A		75'	4.2	A	
TH 61 SB/ Jamaica Ave/ W Point Douglas Rd	NEB	16'	2.6	A	A (4.0)	54'	5.0	A	A (5.6)
	NWB	2'	3.0	A		3'	6.8	A	
	SWB	44'	6.0	A		74'	7.6	A	
	SEB	25'	3.4	A		82'	5.1	A	
	EB	3'	2.9	A		24'	4.8	A	
Jamaica Ave/	EB	120'	16.1	B		160'	18.1	B	

95th St	WB	18'	11.5	B	A (7.3)	47'	11.1	B	A (9.0)
	NB	72'	7.5	A		84'	8.4	A	
	SB	81'	4.5	A		67'	4.0	A	
Jamaica Ave/ 100th St	EB	65'	10.5	B	A (9.4)	56'	9.7	A	A (8.8)
	WB	26'	7.9	A		42'	7.6	A	
	SB	53'	8.3	A		55'	8.2	A	
Miller Rd/ Innovation Rd	SEB	1'	10.4	B	A (1.6)	9'	9.7	A	A (1.6)
	NB	20'	1.4	A		7'	0.2	A	
	SB	0'	0.0	A		0'	0.0	A	
TH 61 SB/ Innovation Rd	EB	52'	12.6	B	A (6.8)	259'	173.2	F	F (73.3)
	NB	4'	0.0	A		11'	0.0	A	
	SB	33'	3.9	A		68'	7.5	A	
TH 61 NB/ Innovation Rd/ E Point Douglas Rd	NEB	4'	2.4	A	A (3.1)	21'	3.6	A	A (4.4)
	NWB	9'	2.7	A		12'	3.3	A	
	WB	1'	4.1	A		2'	4.8	A	
	SWB	15'	3.0	A		26'	4.0	A	
	SEB	6'	5.1	A		33'	6.7	A	

The TH 61 SB/Innovation Road intersection operates at LOS F during the p.m. peak hour. This is a result of left-turning vehicles from the exit ramp finding insufficient gaps to complete the movement. Possible mitigation efforts to reduce the delays and queues for this movement include:

- Enhanced traffic control – Changing the intersection to traffic signal control or roundabout.

2040 No-Build Conditions

The full build analysis was completed for the year 2040. Background traffic was increased by a factor of 1.3. While this increase is reasonable, but conservative, in the less developed southern areas of the land near100th, the land becomes more developed the further it goes north, and this amount of growth is likely to be too high. A no build analysis was first completed to establish a baseline of traffic conditions for the year. The results of this analysis can be seen in Table 18-2.

Table 18.2 - LOS and Queue Lengths for Cottage Grove AUAR
No Build Year 2040

		AM				PM			
Intersection	Direction	95 % Queue	Delay/ Vehicle	APPR LOS	LOS	95 % Queue	Delay/ Vehicle	APPR LOS	LOS
TH 61 NB/ 80th Street	EB	560'	21.7	C	C (22.7)	188'	15.4	B	C (20.9)
	WB	1349'	16.1	B		686'	23.2	C	
	NB	95'	37.2	D		166'	37.4	D	

TH 61 SB/ 80th Street	NEB	**610'**	8.6	A	B (15.7)	295'	47.9	D	C (32.9)
	SWB	123'	9.3	A		368'	25.5	C	
	SB	271'	32.8	C		271'	28.8	C	
Hadley Ave/ 80th Street	SEB	**347'**	20.5	C	D (37.7)	196'	45.0	D	C (30.0)
	NWB	843'	48.7	D		140'	10.7	B	
	NEB	523'	26.7	C		109'	26.3	C	
	SWB	150'	41.4	D		295'	31.0	C	
TH 61 NB/ Jamaica Ave	NEB	35'	3.6	A	A (3.4)	245'	7.8	A	A (9.9)
	NWB	11'	5.6	A		283'	**42.4**	**E**	
	SWB	53'	2.8	A		147'	6.4	A	
TH 61 SB/ Jamaica Ave/ W Point Douglas Rd	NEB	21'	2.8	A	A (4.6)	114'	7.8	A	A (8.8)
	NWB	2'	3.2	A		6'	9.5	A	
	SWB	66'	7.2	A		162'	12.1	B	
	SEB	36'	3.9	A		164'	7.8	A	
	EB	4'	3.1	A		44'	6.8	A	
Jamaica Ave/ 95th St	EB	151'	18.4	B	A (7.5)	216'	23.2	C	B (11.0)
	WB	35'	10.0	B		49'	12.8	B	
	NB	67'	6.1	A		92'	10.1	B	
	SB	89'	5.1	A		59'	5.0	A	
Jamaica Ave/ 100th St	EB	70'	11.4	B	B (10.1)	59'	10.3	B	A (9.3)
	WB	31'	8.1	A		47'	7.8	A	
	SB	54'	8.9	A		61'	8.6	A	
Miller Rd/ Innovation Rd	SEB	2'	11.1	B	A (1.8)	11'	10.0	A	A (1.7)
	NB	20'	1.6	A		6'	0.2	A	
	SB	0'	0.0	A		0'	0.0	A	
TH 61 SB/ Innovation Rd	EB	61'	15.1	C	A (7.8)	650'	**528.8**	**F**	**F (218.2)**
	NB	0'	0.0	A		13'	0.0	A	
	SB	34'	4.0	A		77'	7.9	A	
TH 61 NB/ Innovation Rd/ E Point Douglas Rd	NEB	6'	2.5	A	A (3.2)	27'	3.8	A	A (4.9)
	NWB	11'	2.8	A		16'	3.5	A	
	WB	1'	4.2	A		3'	5.2	A	
	SWB	20'	3.1	A		35'	4.4	A	
	SEB	8'	5.3	A		48'	7.8	A	

All intersections and approaches except TH 61 SB/Innovation Road operate at acceptable Levels of Service (LOS). The TH 61 SB/Innovation Road intersection operates at LOS F during the p.m. peak hour. As noted above, the recommended mitigation is installation of traffic signal control.

Queue lengths for movements at intersections in the 80th Street corridor are excessive during the a.m. peak hour. The primary source of delay for the corridor is that the number of

vehicles attempting to make a left-turn onto TH-61 NB cannot be adequately serviced by a single turn lane. As noted above, the increase of traffic in this area reflects a conservative approach to the analysis. However, the interchange should be monitored over time to ensure delays of this magnitude are not realized.

2040 Build Conditions

Trip generation for the full build was developed using the ITE Trip Generation Manual 10th Edition. Trips were assigned to the roadway system using distribution percentages developed for the 2018 AUAR. The trips were then distributed based upon their location in the development and their most likely path to and from the origin or destination. The results of this analysis are shown in Table 18-3.

Table 18.3 - LOS and Queue Lengths for Cottage Grove AUAR
Full Build Year 2040

		AM				PM			
Intersection	Direction	95 % Queue	Delay/ Vehicle	APPR LOS	LOS	95 % Queue	Delay/ Vehicle	APPR LOS	LOS
TH 61 NB/ 80th Street	EB	510'	28.9	C	C (27.5)	359'	18.5	B	C (22.5)
	WB	1335'	16.1	B		270'	23.2	C	
	NB	103'	37.2	D		149'	37.4	D	
TH 61 SB/ 80th Street	NEB	645'	9.0	A	B (18.8)	547'	85.4	F	D (47.7)
	SWB	137'	13.4	B		371'	30.6	C	
	SB	378'	36.3	D		263'	33.6	C	
Hadley Ave/ 80th Street	SEB	427'	21.1	C	D (47.9)	323'	52.6	D	D (37.9)
	NWB	1233'	58.9	E		529'	11.7	B	
	NEB	970'	26.7	C		118'	26.5	C	
	SWB	220'	58.7	E		396'	43.3	D	
TH 61 NB/ Jamaica Ave	NEB	150'	5.4	A	B (13.0)	79180'	988.2	F	F (776.6)
	NWB	146'	15.5	C		848'	158.8	F	
	SWB	697'	22.4	C		8533'	325.7	F	
TH 61 SB/ Jamaica Ave/ W Point Douglas Rd	NEB	156'	6.6	A	F (241.0)	50980'	1184.0	F	F (731.9)
	NWB	15'	4.8	A		11737'	977.2	F	
	SWB	182'	11.3	B		242'	13.6	B	
	SEB	2374'	504.0	F		35840'	714.5	F	
	EB	19'	5.3	A		7144'	338.4	F	
Jamaica Ave/ 95th St	EB	452'	92.2	F	C (33.5)	2599'	148.3	F	C (33.7)
	WB	45'	22.2	C		167'	38.9	D	
	NB	479'	19.4	B		484'	24.9	C	
	SB	1168'	34.4	C		320'	15.8	B	
Jamaica Ave/ 100th St	EB	2116'	606.1	F	F (444.2)	2092'	602.4	F	F (499.1)
	WB	128'	36.6	E		125'	79.9	F	

	NB	59'	20.1	C		137'	**77.4**	**F**	
	SB	**2517'**	**485.0**	**F**		**2387'**	**710.2**	**F**	
Miller Road & Innovation Rd	SEB	247'	**249.1**	**F**	**F (72.2)**	132'	**462.0**	**F**	**F (212.5)**
	NB	32'	2.2	A		9'	0.3	A	
	SB	172'	0.0	A		35'	0.0	A	
TH 61 SB/ Innovation Rd	EB	87'	**38.2**	**E**	A (9.3)	1224'	**1941.7**	**F**	**F (500.3)**
	NB	7'	0.0	A		94'	0.0	A	
	SB	85'	2.5	A		267'	6.6	A	
TH 61 NB/ Innovation Rd/ E Point Douglas Rd	NEB	5'	2.4	A	A (3.6)	26'	3.7	A	A (5.3)
	NWB	30'	3.6	A		39'	4.6	A	
	WB	1'	4.6	A		3'	5.5	A	
	SWB	23'	3.5	A		40'	4.9	A	
	SEB	9'	5.8	A		54'	8.7	A	

In addition to the issues already described at the 80th Street intersections and the TH 61 SB/Innovation Road intersection, operational issues occur at all intersections except the TH 61 NB/Innovation Road/E. Point Douglas Road intersection.

Since the City or other public agencies will be responsible for implementing transportation improvements, they will determine how and when to trigger individual mitigation strategies. Developers may be responsible for financially supporting mitigation strategies as part of their development approvals.

2018 AUAR Mitigation Strategies	**Update**
Jamaica Ave/95th Street • Enhanced traffic control • Restripe lanes	Complete.
Jamaica Ave/100th Street • Enhanced traffic control • Additional traffic lanes	Applicable to future development
TH 61 NB/80th Street • Potential dual left turn lanes	Applicable to future development
Miller Road/Innovation Road • Potential all-way stop control • Potential 100th Street extension	Applicable to future development
TH 61/Jamaica Ave interchange • Develop new interchange layout	Applicable to future development
TH 61 • Widen to three lanes in each direction	Is not necessary at this time. Will be monitored to

	determine if needed in the future.
Mode Split • Provide last mile shuttle to/from Cottage Grove Park & Ride • Provide Metro Transit mid-day express route • Increase sidewalks to/from Cottage Grove Park & Ride	Applicable to future development
2022 AUAR Mitigation Strategies	
Jamaica Ave/95th Street • Dual eastbound left turn lanes	Applicable to future development
100th Street extension to Innovation Road • Intersection control at Innovation Rd/100th Street/TH 61 SB ramps	Applicable to future development
Traffic Management Measures • Require trucks to use 100th Street to Innovation Rd interchange • Stagger shift times • Encourage use of carpools, transit, park & ride, van pools, and shuttle to/from park & ride	Applicable to future development

19. Cumulative Potential Effects

Development Scenario 1 anticipated a large industrial distribution facility in the area south of 100th Street S with accompanying mitigation strategies to identify improvements that would be required to accommodate that major user. In both the 2018 AUAR and this current Update, the cumulative potential effects are associated with normal growth and development over time. Additionally, Development Scenario 2 is consistent with the land use and growth direction in the 2040 Comprehensive Plan. As the AUAR continues to be updated every five years, the City is confident that modifications to the Mitigation Plan can be made as future development and future conditions merit.

Appendix A

CITY OF COTTAGE GROVE, MINNESOTA
CITY COUNCIL
RESOLUTION 2021-158

A RESOLUTION ORDERING AN UPDATE OF THE ALTERNATIVE URBAN AREAWIDE REVIEW (AUAR) FOR THE COTTAGE GROVE BUSINESS PARK

WHEREAS, the Cottage Grove Business Park AUAR was approved on January 3, 2018, via Resolution 2018-003; and

WHEREAS, Minnesota Rules 4410.3610 Subpart 7 provide guidance on the circumstances that require an AUAR update; and

WHEREAS, Minnesota State Rules require five-year updates for AUAR documents to remain a valid environmental review; and

WHEREAS, proposed industrial and residential developments within the AUAR boundary area are inconsistent with the current AUAR and requires the AUAR to be updated prior to the required five-year update; and

WHEREAS, an AUAR Update process requires the original AUAR document and associated mitigation plan to be updated to reflect the changes proposed to occur in the AUAR boundary; and

WHEREAS, the City wishes to retain the services of a consultant to assist with completion of the AUAR update.

NOW THEREFORE BE IT RESOLIVED, the City Council of the City of Cottage Grove, County of Washington, State of Minnesota, adopts this Order for an Updated Alternative Urban Areawide Review (AUAR) for the Cottage Grove Business Park.

Passed this 1st day of December 2021.

Myron Bailey, Mayor

Attest:

Joe Fischbach, City Clerk

Appendix B

Elliott, Beth

From: Wierzbinski, Daryl W CIV USARMY CEMVP (USA) <Daryl.W.Wierzbinski@usace.army.mil>
Sent: Monday, February 7, 2022 8:54 AM
To: Elliott, Beth
Cc: Voce, Catherine D CIV USARMY CEMVP (USA)
Subject: FW: Cottage Grove Business Park AUAR Update – 10 day objection period - Washington County

Good morning Beth, just a quick comment for the AUAR below.

Wetlands may have been identified within the AUAR boundary. Please note that the wetlands could be subject to the Corps of Engineers' jurisdiction pursuant to Section 404 of the Clean Water Act (CW A). Section 404 of the Clean Water Act (33 U.S.C. §1344) prohibits discharges of dredged or fill material into waters of the United States, including wetlands, unless the work has been authorized by a Department of the Army permit.

Daryl W. Wierzbinski
U.S. Army Corps of Engineers, Duluth office
600 South Lake Avenue, Suite 211
Duluth, Minnesota 55802
Phone: ☎ 218 788-6406
Email: daryl.w.wierzbinski@usace.army.mil

Information on Corps of Engineers Regulatory Program status during the COVID-19 pandemic can be found at:
https://can01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.mvp.usace.army.mil%2Fmissions%2Fregulatory&data=04%7C01%7Cbeth.elliott%40stantec.com%7C0749103f90674b11981a08d9ea49aec7%7C413c6f2c219a469297d3f2b4d80281e7%7C0%7C0%7C637798424476855409%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=jSAxXXeSeFsC7AjjVpRevq2l3ZLON%2B9hHUVkwjXOIzw%3D&reserved=0

We are pleased to introduce our new paperless communication procedures in Minnesota. Requests for action (pre-application consultations, permit applications, requests for delineation concurrences, requests for jurisdictional determinations, and mitigation bank proposals) should be sent directly to the following email: usace_requests_mn@usace.army.mil. Please include the county name in the subject line of the email (e.g. Washington County). These changes will improve efficiency, reduce costs and reduce the environmental footprint. Additional information can be found in our public notice located here:
https://can01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.mvp.usace.army.mil%2FMissions%2FRegulatory.aspx&data=04%7C01%7Cbeth.elliott%40stantec.com%7C0749103f90674b11981a08d9ea49aec7%7C413c6f2c219a469297d3f2b4d80281e7%7C0%7C0%7C637798424476855409%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=grbXuJ%2BaZ1iESLmtwLUAcvia9xTT9bKddGLA%2FRs8nRA%3D&reserved=0

From: Lovell, Shirley <Shirley.Lovell@stantec.com>
Sent: Friday, February 4, 2022 11:09 AM
To: Elliott, Beth <Beth.Elliott@stantec.com>
Subject: [Non-DoD Source] Cottage Grove Business Park AUAR Update – 10 day objection period

Pursuant to Minnesota Rules 4410.3610, the City of Cottage Grove has conducted an update to a 2018 Alternative Urban Areawide Review (AUAR) for the business park and an expansion area to the south. The AUAR area is approximately 1,767 acres and is bounded by US Trunk Highway 61 to the north, generally Heath Avenue South to the west, 110th Street South to the southwest, and 100th Street South to the southeast. An updated development scenario is consistent with the City of Cottage Grove's Comprehensive Plan.

The AUAR Update documents will be published in the EQB Monitor <Blockedhttps://can01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.eqb.state.mn.us%2Feqb-monitor&data=04%7C01%7Cbeth.elliott%40stantec.com%7C0749103f90674b11981a08d9ea49aec7%7C413c6f2c219a469297d3f2b4d80281e7%7C0%7C0%7C637798424476855409%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=NDt3Zhp35YzW%2FvVnO1iCFa2Aynhnw6TXF3zMnZi8Igk%3D&reserved=0> on February 8, 2022 for a 10-day objection period. Comments can be sent to beth.elliott@stantec.com <mailto:beth.elliott@stantec.com> . The Cottage Grove City Council intends to adopt the AUAR Update on March 2, 2022. You can find the AUAR Update on the City's website at: News Flash • Cottage Grove, MN • CivicEngage (cottagegrovemn.gov) <Blockedhttps://can01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.cottagegrovemn.gov%2Fcivicalerts.aspx%3Faid%3D74&data=04%7C01%7Cbeth.elliott%40stantec.com%7C0749103f90674b11981a08d9ea49aec7%7C413c6f2c219a469297d3f2b4d80281e7%7C0%7C0%7C637798424476855409%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=wdnpXk2SPAT62smWMn9Pih6hHcj1M1ql%2B%2BbpRdzt0Qs%3D&reserved=0> .

Beth Elliott, AICP

Midwest Planning & Design Leader

She/Her/Hers

Direct: 612-712-2039
Mobile: 612-718-4142
Beth.Elliott@stantec.com <mailto:Beth.Elliott@stantec.com>

Stantec
733 Marquette Avenue, Suite 1000

Minneapolis, MN 55402

Better Together, Even if We're Apart. Read more <Blockedhttps://can01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fspotlight.stantec.com%2Fcovid-19%2F&data=04%7C01%7Cbeth.elliott%40stantec.com%7C0749103f90674b11981a08d9ea49aec7%7C413c6f2c219a469297d3f2b4d80281e7%7C0%7C0%7C637798424476855409%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=JDxYl7Wt3so44pM5cePzbq3KMhauvqze0aC4ea7RQIM%3D&reserved=0> about Stantec's COVID-19 response, including business continuity measures and virtual engagement strategies.

<blockedhttps://can01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.stantec.com%2F&data=04%7C01%7Cbeth.elliott%40stantec.com%7C0749103f90674b11981a08d9ea49aec7%7C413c6f2c219a469297d3f2b4d80281e7%7C0%7C0%7C637798424476855409%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=BVejtXIkta%2BcfhFhSkVuwHM50JW6OoDdzAnVD2nCXzE%3D&reserved=0>

The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

To: Jennifer Levitt, City of Cottage Grove City Administrator, 651.458.2800, Email jlevitt@cottagegrovemn.gov
Beth Elliott, Stantec Consulting Services, Inc, Email beth.elliott@stantec.com

From: Bonnie Matter, Cottage Grove Resident, 651.459.6463, Email matterbonnie@gmail.com

Dated: February 6, 2022

Subject: Cottage Grove Business Park AUAR Update Request

Before submitting to the *EQB Monitor* on February 8, 2022, please put this request into the Environmental Quality Board (EQB) Recommended Content and Format for Alternative Urban Areawide Review Documents. A consistent format is requested for transparency purposes and so that the public can follow along with the plans and understand the decision-making process.

As indicated in the EQB Recommended Content and Format AUAR Documents, "if this guidance indicates that an EAW item is not applicable to the AUAR, the item number and its title (the text in bold print on the EAW form) should be included with an indication that the EQB guidance indicates that no response is necessary in an AUAR (as opposed to just skipping reference to that item at all)." There are a total of 31 individual items to be addressed. The requested information is explained for each item.

"One general rule to keep in mind throughout the preparation of the AUAR document is that whenever a certain impact may or may not occur, depending on the exact design of future developments, the AUAR should cover the possible impacts through a "worst case scenario" analysis or else prevent the impacts through the provisions of the mitigation plan. Failure to cover possible impacts by one of these means risks the invalidation of the environmental review exemption for specific development projects."

Here is a link to the AUAR Guidance Form:
https://www.eqb.state.mn.us/alternative-urban-areawide-review-recommend-content-and-format
This form is found on the Minnesota Quality Board website: https://www.eqb.state.mn.us/

It is possible that the required information is contained in the current Stantec document dated February 2022 but it needs to be put into the required EQB format. Any required missing information should be added or clearly noted why missing. Any required maps should be added to help the reviewer more readily understand the area. Street names called out in the request should be identified and marked on all maps and figures. According to the request, "the AUAR area is approximately 1,767 acres and is bounded by Highway 61 to the north, generally Heath Avenue South to the west, 110th Street South to the southwest, and 100th Street South to the southeast."

Provide two additional maps for Scenarios 1 and 2 that show the entire area in context with street names indicated and legends; e.g., Ideal to 110th, 100th to Heath, Heath to 110th (or however the road will run to the south and how that road will eventually connect to 110th), include the train tracks, the SNA, Grey Cloud Island, Mississippi River, Mississippi River Critical Area (MRCCA and MNRRA and 103rd Street as part of this map). Put these maps on separate pages so maps are legible. Is long-term plan for road to run from Heath to 110th? Why is Heath Street relevant? Why was the 2018 plan Water Treatment Plant eliminated and why is the new 2021 proposed Water Treatment Plant reduced in size? Show location relative to the Mississippi River and the railroad tracks on the complete context map.

Note: I attempted to organize the current Stantec document into the required EQB format but soon just gave up. Please put this request's information into the EQB's Recommended Content and Format for Alternative Urban Areawide Documents.

AUAR Documents by Item: Please put the content into the correct document format.
1 ok
2 ok
3 ok
4 ok
5 - ADD MAPS: AUAR Guidelines: The county map is not needed for an AUAR. The USGS map should be included. Instead of a site plan, include: (1) a map clearly depicting the boundaries of the AUAR and any subdistricts used in the AUAR analysis; (2) land use and planning maps as required in conjunction with items 9 and 27; and (3) a cover type map as required for item 10. Additional maps may be included throughout the document wherever maps are useful for displaying relevant information.
6. ADD: infrastructure planned to serve development (roads, sewers, water, stormwater system, etc.) Roadways intended primarily to serve as adjoining land uses within an AUAR area are normally expected to be reviewed as part of an AUAR. More "arterial" types of roadways that would cross an AUAR area are an optional inclusion in the AUAR analysis; if they are included, a more intensive level of review, generally including an analysis of alternative routes, is necessary; -information about the anticipated staging of various developments, to the extent known, and of the infrastructure, and how the infrastructure staging will influence the development schedule.
7. Project Magnitude Data - current document 6C
8. OK
9. OK
10. Cover types - current document #7 - .
ADD: The following information should be provided instead: a. cover type map, at least at the scale of a USGS topographic map, depicting: -wetlands – identified by type (Circular 39) -watercourses – rivers, streams, creeks, ditches 2 -lakes – identify public waters status and shoreland management classification -woodlands – breakdown by classes where possible -grassland – identify native and old field -cropland -current development b. an"overlay" map showing anticipated development in relation to the cover types; this map should also depict any

“protection areas,” existing or proposed, that will preserve sensitive cover types. Separate maps for each major development scenario should generally be provided.

11. Fish, wildlife, and ecologically sensitive resources. ADD: a. The description of wildlife and fish resources should be related to the habitat types depicted on the cover types maps (of item 10). Any differences in impacts between development scenarios should be highlighted in the discussion. b. For an AUAR, prior consultation with the DNR Division of Ecological Resources for information about reports of rare plant and animal species in the vicinity is required. Include the reference numbers called for on the EAW form in the AUAR and include the DNR’s response letter. If such consultation indicates the need, an on-site habitat survey for rare species in the appropriate portions of the AUAR area is required. Areas of on-site surveys should be depicted on a map, as should any “protection zones” established as a result.

Note: Put the current document's information into the EQB AUAR request format. Add any information needed to update the following:

12. Physical Impacts on Water Resources
13. Water Use
14. Water-related Land Use Management Districts
15. Water Surface Use
16. Erosion and Sedimentation
17. Water Quality-stormwater runoff
18. Water Quality-wastewater
19. Geologic hazards and soil conditions
20. Solid wastes; hazardous wastes; storage tanks
21. Traffic
22. Vehicle-related Air Emissions
23. Sanitary Source Air Emissions
24. Dust, Odors, Noise
25. Sensitive Resources
26. Adverse Visual Impacts
27. Compatibility with Plans
28. Impact on Infrastructure and Public Services
29. Cumulative Potential Effects
30. Other Potential Environmental Effects
31. Summary of Issues

Certification by the RGU - Got that
Mitigation Plan
Response to comments on the draft AUAR document

Suggested Additional Reference Documents for Stantec’s use in this update - please let me know if file links are needed:
Mississippi Dunes Environmental Assessment Worksheet (EAW) and Governmental Bodies' Feedback Letters
Washington County Southwest Arterial Study including Appendices

Please contact me if you have questions or concerns regarding this request.

Thank you.

DEPARTMENT OF TRANSPORTATION

Metropolitan District
1500 County Road B-2 West
Roseville, MN 55113

February 18, 2022

Jennifer Levitt
City of Cottage Grove
12800 Ravine Parkway South
Cottage Grove, Minnesota 55016

SUBJECT: Cottage Grove Business Park
MnDOT Review #AUAR22-003
South/southwest of Jamaica Ave exit of US 61
Control Section: 8205
Cottage Grove, Washington County

Dear Jennifer Levitt,

Thank you for the opportunity to review the update of the Cottage Grove Business Park Draft alternative urban areawide review (AUAR). Please note that the Minnesota Department of Transportation's (MnDOT) review of this AUAR does not constitute approval of a regional traffic analysis and is not a specific approval for roadway modifications. As plans are refined, we would like the opportunity to review the updated information. This is the second review of this AUAR. The first comments were sent on December 1, 2017. MnDOT has reviewed the submitted documents and has the following comments:

Walking and Biking
MnDOT encourages the applicant to accommodate County and Local planned facilities for people walking and biking to ensure safe, accessible, and convenient travel.

For questions regarding these comments, contact Jesse Thornsen, Metro Multimodal, at Jesse.Thornsen@state.mn.us or 651-234-7788.

Review Submittal Options
MnDOT's goal is to complete reviews within 30 calendar days. Review materials received electronically can be processed more rapidly. Do not submit files via a cloud service or SharePoint link. In order of preference, review materials may be submitted as:

1. Email documents and plans in PDF format to metrodevreviews.dot@state.mn.us. Attachments may not exceed 20 megabytes per email. Documents can be zipped as well. If multiple emails are necessary, number each message.
2. For files over 20 megabytes, upload the PDF file(s) to MnDOT's Web Transfer Client site: https://mft.dot.state.mn.us. Contact MnDOT Planning development review staff using the same email above for uploading instructions, and send an email listing the file name(s) after the document(s) has/have been uploaded.

You are welcome to contact me at 651 234-7785, or Jake.Schutt@state.mn.us with any questions.

Sincerely,

Jake Schutt
Principal Planner

Copy sent via email:
Jason Swenson, Water Resources
Buck Craig, Permits
Michael Lynch, Right of Way
Alexander Hogan, Traffic
Kaare Festvog, Traffic
Jason Junge, Transit
Ryan Coddington, Area Engineer
Lance Schowalter, Design
Mike Samuelson, Ped/Bike Planning
Mackenzie Turner Barger, Multimodal Planning
Jesse Thornsen, Ped/Bike Planning
Tod Sherman, Planning
Cameron Muhic, Planning
David Elvin, Planning
David Kratz, Planning
Russell Owen, Metropolitan Council
Jennifer Levitt, City of Cottage Grove

MINNESOTA POLLUTION CONTROL AGENCY

520 Lafayette Road North | St. Paul, Minnesota 55155-4194 | 651-296-6300

800-657-3864 | Use your preferred relay service | info.pca@state.mn.us | Equal Opportunity Employer

February 14, 2022

Beth Elliot
Midwest Planning and Design Leader
Stantec
733 Marquette Avenue, Suite 1000
Minneapolis, MN 55402

RE: Cottage Grove Business Park Alternative Urban Areawide Review Update

Dear Beth Elliot:

Thank you for the opportunity to review and comment on the Alternative Urban Areawide Review (AUAR) Update for the Cottage Grove Business Park project (Project) in the city of Cottage Grove, Washington County, Minnesota. The Project consists of a 1,767 acre mixed-use development. Regarding matters for which the Minnesota Pollution Control Agency (MPCA) has regulatory responsibility or other interests, the MPCA staff has the following comments for your consideration.

Water Resources (Item 11)

- The MPCA recommends that the city of Cottage Grove employ efforts to help mitigate stormwater runoff by incorporating use of green infrastructure practices, which provide multiple environmental and quality of life benefits along with climate adaptation.
- Please note that chloride (salt) is a growing issue for lakes, streams, and groundwater around the state. Chloride can come from both de-icing salt and water softener salt. For the proposed Project, as development progresses, the MPCA recommends the city implement smart salting practices for de-icing streets and driveways during the winter weather months and water softening best practices be used year-round. Additional resources are available at https://www.pca.state.mn.us/water/statewide-chloride-resources.

We appreciate the opportunity to review this Project. Please be aware that this letter does not constitute approval by the MPCA of any or all elements of the Project for the purpose of pending or future permit action(s) by the MPCA. Ultimately, it is the responsibility of the Project proposer to secure any required permits and to comply with any requisite permit conditions. If you have any questions concerning our review of this AUAR Update, please contact me by email at Karen.kromar@state.mn.us or by telephone at 651-757-2508.

Sincerely,

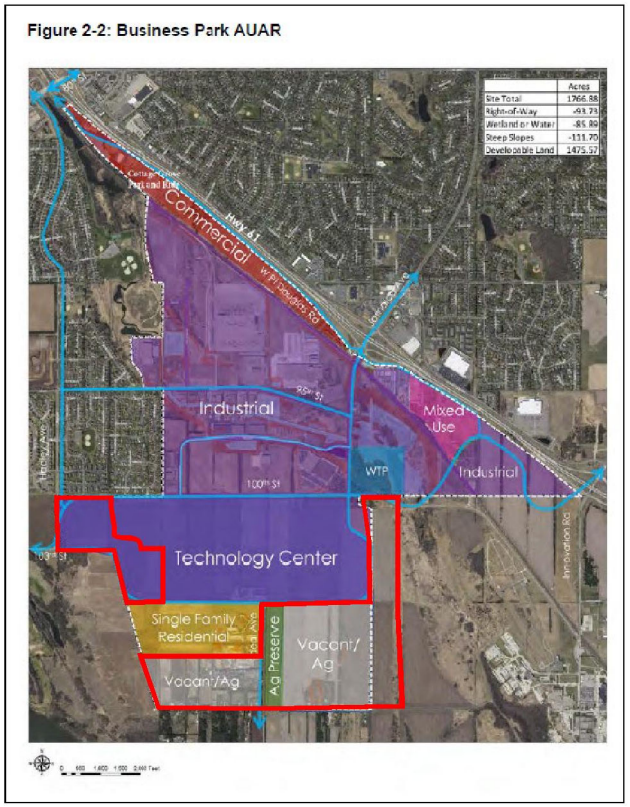
Karen Kromar

This document has been electronically signed.

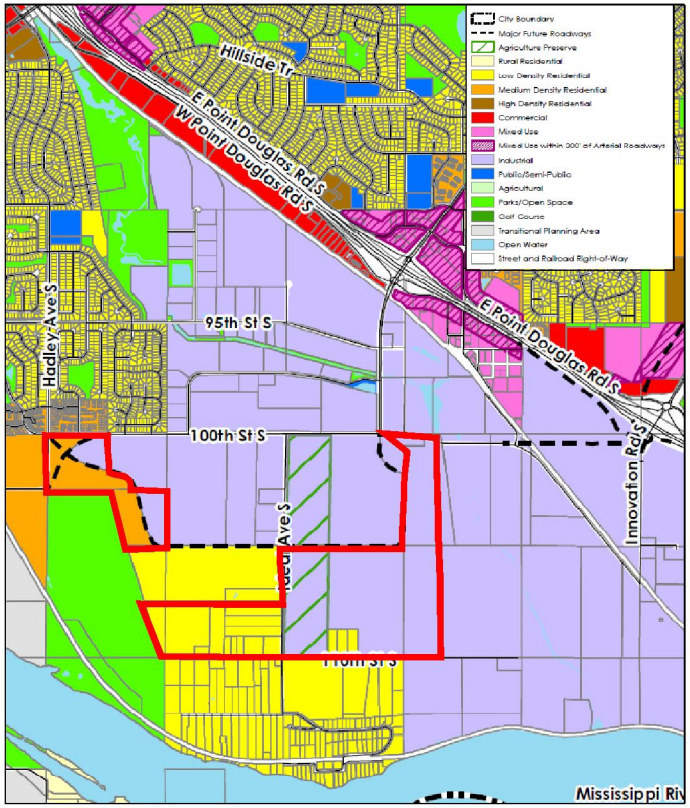
Karen Kromar
Project Manager
Environmental Review Unit
Resource Management and Assistance Division

cc: Dan Card, MPCA, St. Paul
Roberta Getman, MPCA, Rochester

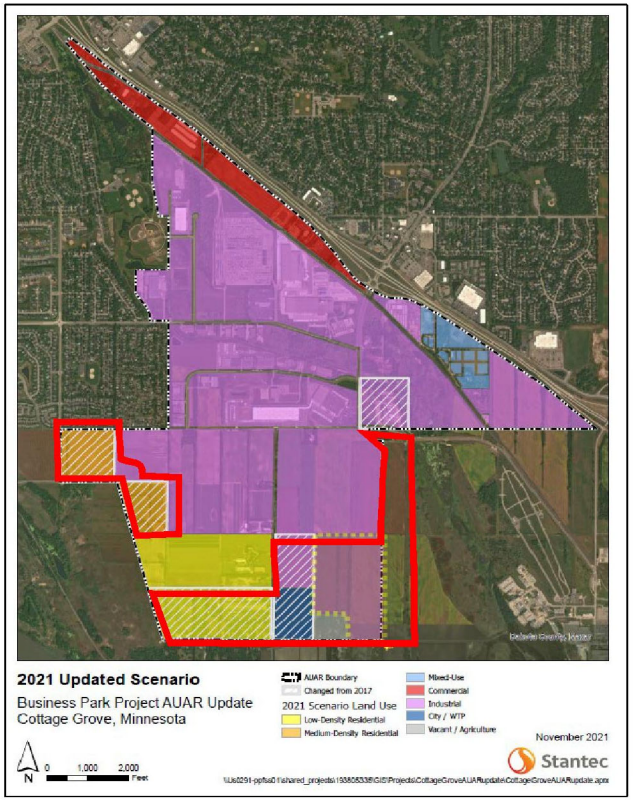
Existing AUAR

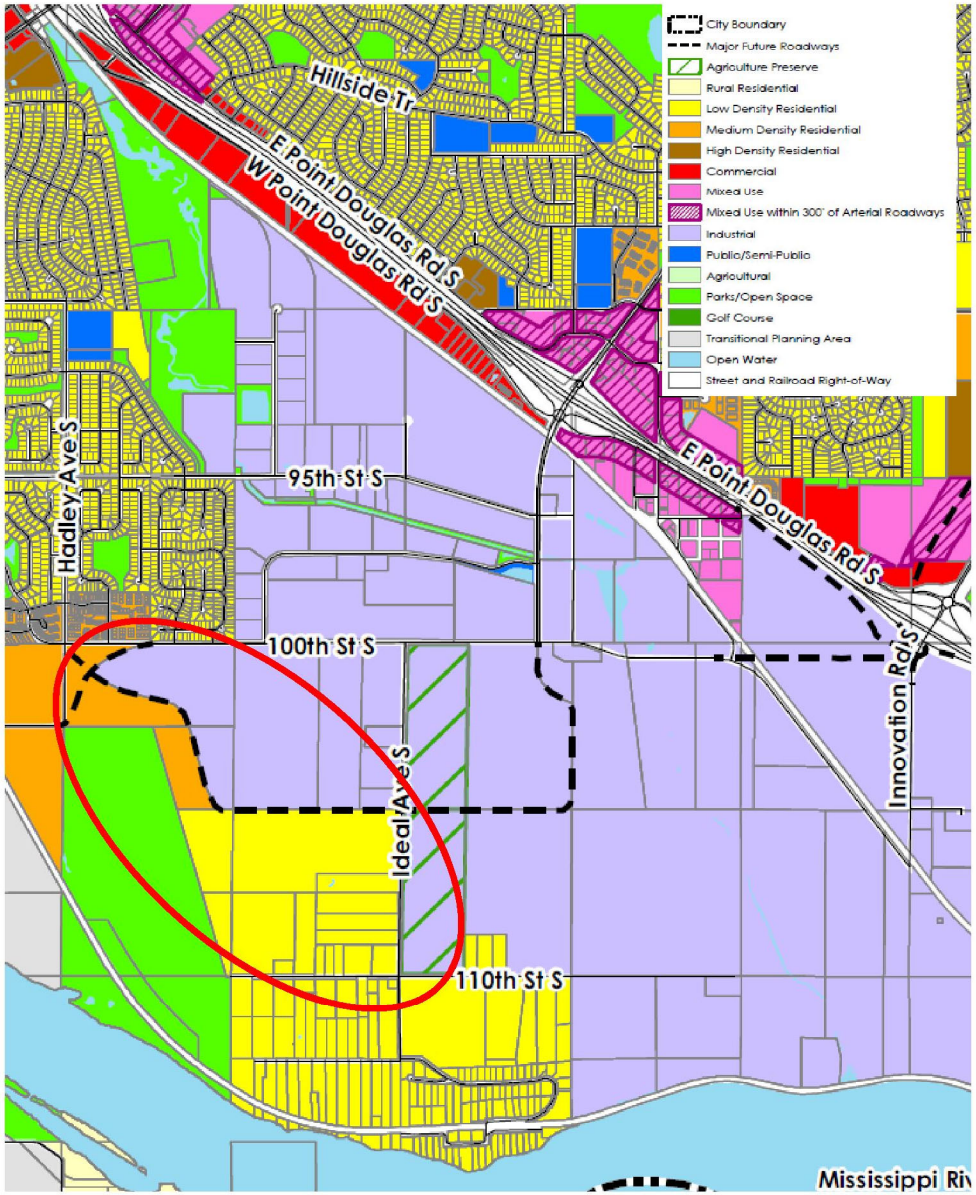


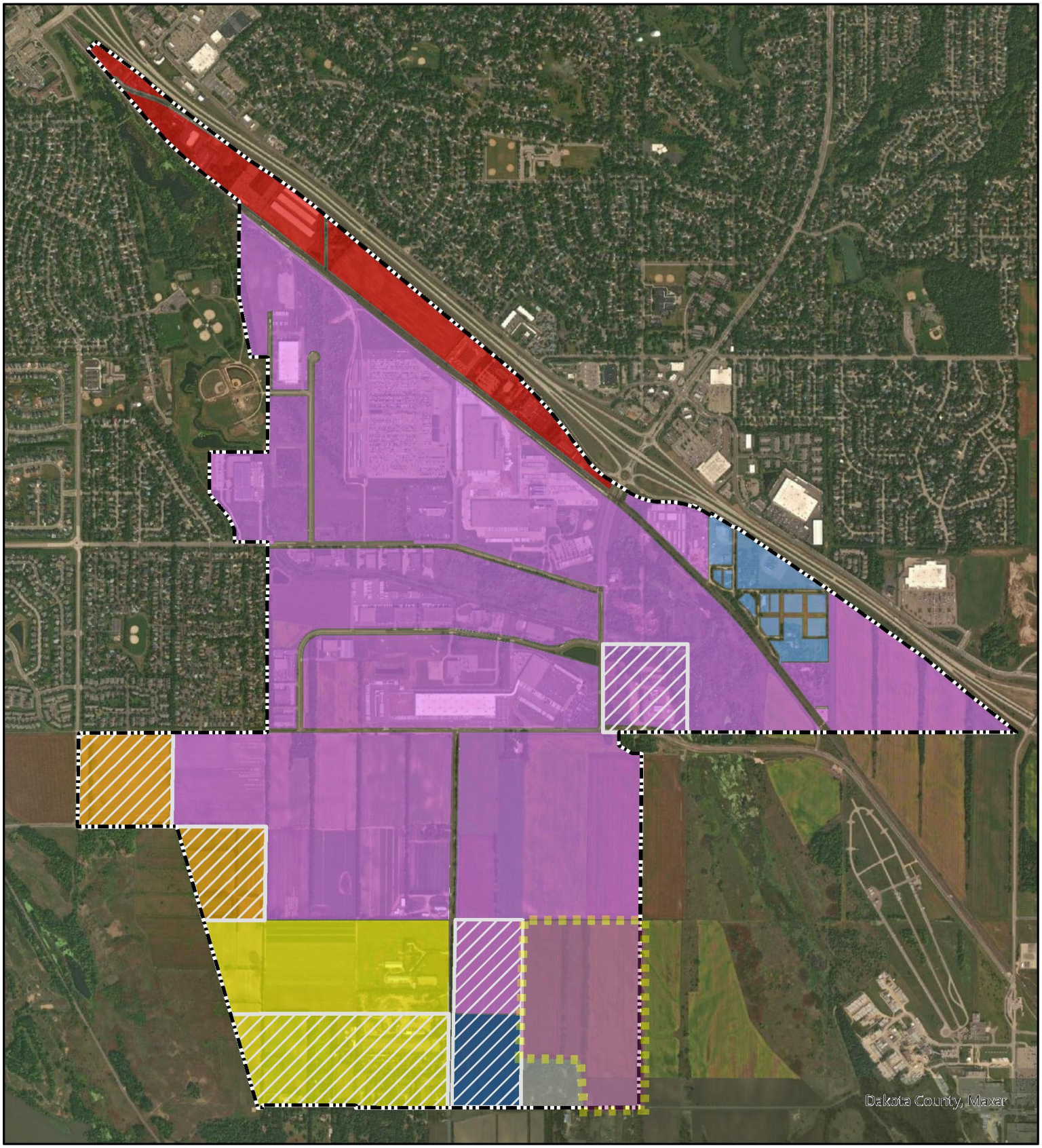
2040 Land Use Plan



Updated AUAR




City Boundary
Major Future Roadways
Agriculture Preserve
Rural Residential
Low Density Residential
Medium Density Residential
High Density Residential
Commercial
Mixed Use
Mixed Use within 300' of Arterial Roadways
Industrial
Public/Semi-Public
Agricultural
Parks/Open Space
Golf Course
Transitional Planning Area
Open Water
Street and Railroad Right-of-Way
Hillside Tr
E Point Douglas Rd S
W Point Douglas Rd S
Hadley Ave S
95th St S
100th St S
Ideal Ave S
110th St S
Innovation Rd S
Mississippi Riv



2021 Updated Scenario

Business Park Project AUAR Update
Cottage Grove, Minnesota

AUAR Boundary
Changed from 2017

2021 Scenario Land Use

Low-Density Residential
Medium-Density Residential
Mixed-Use
Commercial
Industrial
City / WTP
Vacant / Agriculture

N

0 1,000 2,000 Feet

November 2021

Stantec

\\Us0291-ppfss01\shared_projects\193805335\GIS\Projects\CottageGroveAUARupdate\CottageGroveAUARupdate.aprx

City Council Action Request

Cottage Grove
Where Pride and Prosperity Meet

8A

Meeting Date	3/2/2022
Department	Finance
Agenda Category	Approve Disbursements
Title	Approve payments for the period of 2/11/2022-2/24/2022 in the amount of $1,713,888.20.
Staff Recommendation	
Budget Implication	N/A
Attachments	EXPENSE APPROVAL REPORT.tif 6.85MB PAYROLL CHECK REGISTER.tif 15.48KB

Cottage Grove

Expense Approval Report
By Vendor Name

Payment Dates 2/11/2022 - 2/24/2022

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
Vendor: VEN31654 - 2ND WIND EXERCISE EQUIPMENT, INC					
2ND WIND EXERCISE EQUIPM	215559	02/16/2022	22-038034	EXERCISE EQUIPMENT PREVENTATIVE MAINT - FIRE #	324.00
2ND WIND EXERCISE EQUIPM	215606	02/23/2022	22-038035	EXERCISE EQUIPMENT PREVENTATIVE MAINT - CITY HALL	229.00
				Vendor VEN31654 - 2ND WIND EXERCISE EQUIPMENT, INC Total:	**553.00**
Vendor: VEN01986 - ACCUPRODUCTS INTERNATIONAL					
ACCUPRODUCTS INTERNATIO	215607	02/23/2022	66624	18X24 BENCH PLATE/BEDKNIFE BUDDY/PIN	442.81
				Vendor VEN01986 - ACCUPRODUCTS INTERNATIONAL Total:	**442.81**
Vendor: VEN35068 - AI TECHNOLOGIES LLC					
AI TECHNOLOGIES LLC	12427	02/24/2022	20011022022	FEBRUARY BENEFITS ADMINISTRATION FEES	340.00
				Vendor VEN35068 - AI TECHNOLOGIES LLC Total:	**340.00**
Vendor: VEN32652 - ALL SEASONS GARAGE DOOR COMPANY					
ALL SEASONS GARAGE DOOR	12384	02/17/2022	5-3870	GARAGE DOOR SPRING REPAIR-PUBLIC WORKS	844.24
				Vendor VEN32652 - ALL SEASONS GARAGE DOOR COMPANY Total:	**844.24**
Vendor: VEN33229 - AMAZON FULFILLMENT SERVICES, INC.					
AMAZON FULFILLMENT SERVI	12385	02/17/2022	1DWP-TXNL-T36Y	PLASTIC DESK CHAIR MAT-PD	66.29
AMAZON FULFILLMENT SERVI	12385	02/17/2022	1LP7-6HGV-QVJJ	LAMINATED LABEL TAPE-RIVER OAKS	17.77
AMAZON FULFILLMENT SERVI	12385	02/17/2022	1DDX-F6HQ-QM1V	PUMP OUT OF ORDER GAS NOZZLE COVERS	19.98
AMAZON FULFILLMENT SERVI	12385	02/17/2022	1QDM-CFQT-4N7X	ULTRASONIC CLEANER-RIVER OAKS	169.99
AMAZON FULFILLMENT SERVI	12428	02/24/2022	191X-P4T7-6XQ1	2022 PLANNER INSERTS & COVER-FOHRMAN	71.24
AMAZON FULFILLMENT SERVI	12385	02/17/2022	1FTM-XY9T-KQKN	CORDLESS VACUUM CLEANER -HERO CENTER	154.99
AMAZON FULFILLMENT SERVI	12428	02/24/2022	1PQM-7TKX-Q9JN	WOOD HANDLE/SQUEEGEE-HERO CENTER CLEANING SUPPLIES	87.50
AMAZON FULFILLMENT SERVI	12428	02/24/2022	1FPR-W3QK-LG37	VACUUM CLEANER-CENTRAL FIRE	328.01
AMAZON FULFILLMENT SERVI	12428	02/24/2022	1NRW-CHJY-1MHR	FIRE OFFICER PRINCIPLES & PRACTICE-CENTRAL FIRE	1,088.45
AMAZON FULFILLMENT SERVI	12428	02/24/2022	1Q1R-4TN3-GGRM	LOCK NUTS-RIVER OAKS	14.52
				Vendor VEN33229 - AMAZON FULFILLMENT SERVICES, INC. Total:	**2,018.74**
Vendor: VEN31224 - AMERICAN FAMILY LIFE ASSURANCE COMPANY OF COLUMBUS					
AMERICAN FAMILY LIFE ASSU	12429	02/24/2022	INV024876	2/10/22 BIWEEKLY PAYROLL 1/17/22-1/30/22	201.13
AMERICAN FAMILY LIFE ASSU	12497	02/24/2022	INV024888	2/24/22 BIWEEKLY PAYROLL 1/31/22-2/13/22	201.13
				Vendor VEN31224 - AMERICAN FAMILY LIFE ASSURANCE COMPANY OF COLUMBUS Total:	**402.26**
Vendor: VEN01201 - AMERICAN WATER WORKS ASSOCIATION					
AMERICAN WATER WORKS AS	215608	02/23/2022	200006075	2022 OPERATOR SCHOOL REG -ALT/RHODE/GARCIA/WARNE	1,160.00
				Vendor VEN01201 - AMERICAN WATER WORKS ASSOCIATION Total:	**1,160.00**
Vendor: VEN01017 - ASPEN EQUIPMENT COMPANY					
ASPEN EQUIPMENT COMPAN	12386	02/17/2022	10233475	BUCKET CONTROLS/RPM, O/S LABOR 2601/33963	3,252.41
ASPEN EQUIPMENT COMPAN	12386	02/17/2022	10233685	AUGERS - 4104/33960 & 4105/33961	46.91

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
ASPEN EQUIPMENT COMPAN	12386	02/17/2022	10234993	CHASSIS BRACKET & KICKER, O/S LABOR - 4101/33780	1,213.00
ASPEN EQUIPMENT COMPAN	12430	02/24/2022	10235411	FAT BAT ROCKER - 1406/3385	2.63
ASPEN EQUIPMENT COMPAN	12386	02/17/2022	10235597	PIVOT PIN - 1503/33884	40.17
				Vendor VEN01017 - ASPEN EQUIPMENT COMPANY Total:	**4,555.12**
Vendor: VEN31986 - AUTONATION					
AUTONATION	215560	02/16/2022	159414	BRAKE ROTORS & PADS - 1506/33837	322.14
				Vendor VEN31986 - AUTONATION Total:	**322.14**
Vendor: VEN30864 - BATTERIES PLUS BULBS					
BATTERIES PLUS BULBS	12387	02/17/2022	P46991840	12V BATTERY-ICE ARENA	741.90
				Vendor VEN30864 - BATTERIES PLUS BULBS Total:	**741.90**
Vendor: VEN34204 - BENEFIT EXTRAS, INC.					
BENEFIT EXTRAS, INC.	12431	02/24/2022	107068	FEB FEES - COBRA/RETIREE BILLING/HRA & FLEX ADMIN	857.25
				Vendor VEN34204 - BENEFIT EXTRAS, INC. Total:	**857.25**
Vendor: VEN35765 - BENJAMIN FILLMORE					
BENJAMIN FILLMORE	215561	02/16/2022	20220216	REFUND UB ACCT# 102392425 - 8251 JOHANSEN	29.49
				Vendor VEN35765 - BENJAMIN FILLMORE Total:	**29.49**
Vendor: VEN32569 - BERTELSON BROTHERS, INC					
BERTELSON BROTHERS, INC	12432	02/24/2022	M-65575301/31/2022	JANUARY OFFICE SUPPLIES	288.45
BERTELSON BROTHERS, INC	12432	02/24/2022	M-65575301/31/2022	JANUARY OFFICE SUPPLIES	500.92
BERTELSON BROTHERS, INC	12432	02/24/2022	M-65575301/31/2022	JANUARY OFFICE SUPPLIES	316.55
				Vendor VEN32569 - BERTELSON BROTHERS, INC Total:	**1,105.92**
Vendor: VEN35453 - BIX PRODUCE COMPANY LLC					
BIX PRODUCE COMPANY LLC	12433	02/24/2022	5309847	FOOD FOR CLUBHOUSE	299.84
				Vendor VEN35453 - BIX PRODUCE COMPANY LLC Total:	**299.84**
Vendor: VEN02288 - BOUND TREE MEDICAL, LLC					
BOUND TREE MEDICAL, LLC	12388	02/17/2022	84367973	EMS SUPPLIES	328.71
BOUND TREE MEDICAL, LLC	12388	02/17/2022	84370157	EMS SUPPLIES	274.98
BOUND TREE MEDICAL, LLC	12388	02/17/2022	84370158	EMS SUPPLIES	131.43
BOUND TREE MEDICAL, LLC	12388	02/17/2022	84372241	EMS SUPPLIES	1,161.71
BOUND TREE MEDICAL, LLC	12434	02/24/2022	84377130	EMS SUPPLIES	1,138.95
BOUND TREE MEDICAL, LLC	12434	02/24/2022	84380978	EMS SUPPLIES	2.63
BOUND TREE MEDICAL, LLC	12434	02/24/2022	84388550	EMS SUPPLIES	358.35
BOUND TREE MEDICAL, LLC	12434	02/24/2022	84390590	EMS SUPPLIES	92.50
				Vendor VEN02288 - BOUND TREE MEDICAL, LLC Total:	**3,489.26**
Vendor: VEN33107 - BURGGRAF'S ACE HARDWARE OF COTTAGE GROVE CO.					
BURGGRAF'S ACE HARDWARE	215609	02/23/2022	4369	MAG NUT SET/IMPACT BIT HOLDER-STREETS	48.97
BURGGRAF'S ACE HARDWARE	215609	02/23/2022	4380	MANIFOLD 4-WAY SHUT OFF-STREETS	25.99
BURGGRAF'S ACE HARDWARE	215562	02/16/2022	4382	PIPE FITTINGS-ZAMBONI FILL HOSE REPAIR	21.56
BURGGRAF'S ACE HARDWARE	215609	02/23/2022	4385	SAE NUTDRIVER SET-STREETS	28.99
BURGGRAF'S ACE HARDWARE	215609	02/23/2022	4388	1/2" TUBE STRAP-WATER	1.45
BURGGRAF'S ACE HARDWARE	215609	02/23/2022	4390	LED LIGHT-CITY HALL	7.99
				Vendor VEN33107 - BURGGRAF'S ACE HARDWARE OF COTTAGE GROVE CO. Total:	**134.95**
Vendor: VEN34968 - CALIBER HOLDINGS CORPORATION					
CALIBER HOLDINGS CORPORA	12389	02/17/2022	3364001198	CLM# CA113175 - FA4193 REPAIRS 1962/33647	8,676.91
				Vendor VEN34968 - CALIBER HOLDINGS CORPORATION Total:	**8,676.91**
Vendor: VEN03362 - CARLSON AUTO SERVICE & REPAIR					
CARLSON AUTO SERVICE & RE	12390	02/17/2022	51548	REPAIRED BRAKES - 1302/33844	1,510.44
				Vendor VEN03362 - CARLSON AUTO SERVICE & REPAIR Total:	**1,510.44**

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
Vendor: VEN03922 - CENTERPOINT ENERGY					
CENTERPOINT ENERGY	215563	02/16/2022	20220202	FIRE #3 GAS USAGE 12/22/21-1/24/22	826.62
CENTERPOINT ENERGY	215563	02/16/2022	20220202	PW STORAGE BLDG GAS USAGE 12/22/21-1/24/22	367.94
CENTERPOINT ENERGY	215563	02/16/2022	20220202	WARMING HOUSE GAS USAGE 12/22/21-1/24/22	146.32
CENTERPOINT ENERGY	215563	02/16/2022	20220202	LAMAR PARK BLDG GAS USAGE 12/22/21-1/24/22	246.35
CENTERPOINT ENERGY	215563	02/16/2022	20220202	RIVER OAKS PRO SHOP GAS USAGE 12/22/21-1/24/22	470.79
CENTERPOINT ENERGY	215563	02/16/2022	20220202	RIVER OAKS MAINT BLDG GAS USAGE 12/22/21-1/24/22	357.40
CENTERPOINT ENERGY	215563	02/16/2022	20220202	CLUBHOUSE GAS USAGE 12/22/21-1/24/22	1,295.21
				Vendor VEN03922 - CENTERPOINT ENERGY Total:	**3,710.63**
Vendor: VEN29526 - CENTURY LINK					
CENTURY LINK	215564	02/16/2022	280660344	JANUARY LONG DISTANCE	2.70
CENTURY LINK	215564	02/16/2022	280660344	JANUARY LONG DISTANCE	2.53
CENTURY LINK	215564	02/16/2022	280660344	JANUARY LONG DISTANCE	2.53
CENTURY LINK	215564	02/16/2022	280660344	JANUARY LONG DISTANCE	25.99
				Vendor VEN29526 - CENTURY LINK Total:	**33.75**
Vendor: VEN03416 - CERTIFIED POWER, INC					
CERTIFIED POWER, INC	12391	02/17/2022	50329862	FLOW METER SENSOR - NEW STOCK ITEM	103.71
				Vendor VEN03416 - CERTIFIED POWER, INC Total:	**103.71**
Vendor: VEN34072 - CHRISTOPHER L. GRABRIAN					
CHRISTOPHER L. GRABRIAN	215565	02/16/2022	1298	GASB STATEMENT 75 VALUATION FOR FYE 2021	4,350.00
				Vendor VEN34072 - CHRISTOPHER L. GRABRIAN Total:	**4,350.00**
Vendor: VEN33565 - CINTAS CORPORATION NO. 2					
CINTAS CORPORATION NO. 2	12392	02/17/2022	4107860091	PW UNIFORM SVC	5.91
CINTAS CORPORATION NO. 2	12392	02/17/2022	4107860091	PW UNIFORM SVC	32.23
CINTAS CORPORATION NO. 2	12392	02/17/2022	4107860132	SHOP TWL - AIR SVC - CART - HD SCRB SVC - MAT SVC	33.16
CINTAS CORPORATION NO. 2	12392	02/17/2022	4107860132	SHOP TWL - AIR SVC - CART - HD SCRB SVC - MAT SVC	33.16
CINTAS CORPORATION NO. 2	12392	02/17/2022	4108534289	MAT SERVICE - ICE ARENA	57.30
CINTAS CORPORATION NO. 2	12435	02/24/2022	4108534536	SHOP TOWEL - AIR SVC - CART - HD SCRB SVC	17.50
CINTAS CORPORATION NO. 2	12435	02/24/2022	4108534536	SHOP TOWEL - AIR SVC - CART - HD SCRB SVC	17.50
CINTAS CORPORATION NO. 2	12435	02/24/2022	4108534602	PW UNIFORM SVC	5.91
CINTAS CORPORATION NO. 2	12435	02/24/2022	4108534602	PW UNIFORM SVC	32.23
CINTAS CORPORATION NO. 2	12392	02/17/2022	4108688168	SCRAPER - SHOP TWL - RIVER OAKS UNIFORM SVC	46.19
CINTAS CORPORATION NO. 2	12435	02/24/2022	4109218831	SHOP TOWEL - CART - AIR SVC - SHELL SHOCK	18.50
CINTAS CORPORATION NO. 2	12435	02/24/2022	4109218831	SHOP TOWEL - CART - AIR SVC - SHELL SHOCK	18.50
CINTAS CORPORATION NO. 2	12435	02/24/2022	4109218945	PW UNIFORM SVC	5.91
CINTAS CORPORATION NO. 2	12435	02/24/2022	4109218945	PW UNIFORM SVC	32.23
CINTAS CORPORATION NO. 2	12435	02/24/2022	4109374570	SCRAPER - SHOP TWL - RIVER OAKS UNIFORM SVC	36.72
CINTAS CORPORATION NO. 2	12435	02/24/2022	4109374576	MAT SERVICE - HERO CENTER	281.84
				Vendor VEN33565 - CINTAS CORPORATION NO. 2 Total:	**674.79**
Vendor: VEN03907 - CITY OF ST PAUL					
CITY OF ST PAUL	215566	02/16/2022	IN48025	ASPHALT MIX - 4 TON	267.72
				Vendor VEN03907 - CITY OF ST PAUL Total:	**267.72**

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
Vendor: VEN03057 - CITY OF WOODBURY					
CITY OF WOODBURY	215567	02/16/2022	22-0056	2022 CHAPLAINCY SERVICES	150.00
				Vendor VEN03057 - CITY OF WOODBURY Total:	**150.00**
Vendor: VEN32389 - COMCAST					
COMCAST	215568	02/16/2022	20220204	ICE ARENA CABLE SVC 2/14/22-3/13/22	38.01
COMCAST	215568	02/16/2022	20220204	CLUBHOUSE CABLE SVC 2/14/22-3/13/22	957.11
COMCAST	215568	02/16/2022	20220204	MAINT SHED CABLE SVC 2/14/22-3/13/22	213.57
COMCAST	215568	02/16/2022	20220204	PSCH CABLE SVC 2/14/22-3/13/22	477.89
COMCAST	215568	02/16/2022	20220204	FIRE CABLE SVC 2/14/22-3/13/22	63.36
COMCAST	215568	02/16/2022	20220204	PW CABLE SVC 2/14/22-3/13/22	134.85
COMCAST	215610	02/23/2022	20220208	CENTRAL FIRE ACCT# 8772105760347241 2/13-3/12/22	84.85
				Vendor VEN32389 - COMCAST Total:	**1,969.64**
Vendor: VEN35343 - COMMON GROUND ELECTRIC					
COMMON GROUND ELECTRIC	215611	02/23/2022	20220223	CANCEL PERMIT# 2021-009227 - 6412 HARKNESS AVE	175.00
				Vendor VEN35343 - COMMON GROUND ELECTRIC Total:	**175.00**
Vendor: VEN32321 - COMPASS MINERALS AMERICA INC					
COMPASS MINERALS AMERIC	215569	02/16/2022	924715	ROAD SALT	18,314.53
COMPASS MINERALS AMERIC	215569	02/16/2022	925836	ROAD SALT	2,006.58
COMPASS MINERALS AMERIC	215569	02/16/2022	926272	BULK ROAD SALT	35,969.59
COMPASS MINERALS AMERIC	215612	02/23/2022	943252	BULK ROAD SALT	38,890.95
COMPASS MINERALS AMERIC	215612	02/23/2022	944408	BULK ROAD SALT	3,831.19
COMPASS MINERALS AMERIC	215612	02/23/2022	946864	BULK ROAD SALT	5,323.60
				Vendor VEN32321 - COMPASS MINERALS AMERICA INC Total:	**104,336.44**
Vendor: VEN03943 - COTTAGE GROVE ANIMAL HOSPITAL					
COTTAGE GROVE ANIMAL HO	215570	02/16/2022	252194	VACCINES - SCOUT	39.00
				Vendor VEN03943 - COTTAGE GROVE ANIMAL HOSPITAL Total:	**39.00**
Vendor: VEN03037 - COTTAGE GROVE AREA CHAMBER OF COMMERCE					
COTTAGE GROVE AREA CHAM	12393	02/17/2022	6795	MEMBERSHIP RENEWAL-RIVER OAKS	655.00
				Vendor VEN03037 - COTTAGE GROVE AREA CHAMBER OF COMMERCE Total:	**655.00**
Vendor: VEN33035 - COUNTRY PET FOODS LLC					
COUNTRY PET FOODS LLC	215613	02/23/2022	53984	50# ICE AWAY MAX GREEN	720.00
				Vendor VEN33035 - COUNTRY PET FOODS LLC Total:	**720.00**
Vendor: VEN03011 - CRYSTEEL TRUCK EQUIPMENT INC					
CRYSTEEL TRUCK EQUIPMENT	12394	02/17/2022	FP185042	CYLINDER, HOSE, FITTING - 1302/33816	216.24
				Vendor VEN03011 - CRYSTEEL TRUCK EQUIPMENT INC Total:	**216.24**
Vendor: VEN31180 - CTM SERVICES, INC					
CTM SERVICES, INC	12436	02/24/2022	5212	PADDLES/SCOOPS & BUMPER WHEEL KIT	491.00
CTM SERVICES, INC	12437	02/24/2022	5225	BLADE ADJ SCREW & CRANK/FLANGE/SHAFT/HANDLE	576.21
				Vendor VEN31180 - CTM SERVICES, INC Total:	**1,067.21**
Vendor: VEN03012 - CUB FOODS					
CUB FOODS	215614	02/23/2022	20210926	FOOD FOR CLUBHOUSE	62.30
CUB FOODS	215614	02/23/2022	20211211	FRUIT & DONUTS FOR SNOWSTORM	39.91
CUB FOODS	215571	02/16/2022	20220125	FOOD FOR CLUBHOUSE	67.53
CUB FOODS	215571	02/16/2022	20220128	FOOD FOR CLUBHOUSE	35.96

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
CUB FOODS	215614	02/23/2022	20220131	CUPCAKES FOR PUBLIC SERVICE COMMISSION	23.11
CUB FOODS	215571	02/16/2022	20220201	FOOD FOR CLUBHOUSE	39.88
				Vendor VEN03012 - CUB FOODS Total:	**268.69**
Vendor: VEN03013 - CULLIGAN-MILBERT COMPANY					
CULLIGAN-MILBERT COMPAN	215615	02/23/2022	157X01125108	SOLAR SALT-CLUBHOUSE	69.05
				Vendor VEN03013 - CULLIGAN-MILBERT COMPANY Total:	**69.05**
Vendor: VEN35073 - DATAWORKS PLUS LLC					
DATAWORKS PLUS LLC	215616	02/23/2022	22-257	MAINTENANCE FEE 3/1/22-2/28/23	495.00
				Vendor VEN35073 - DATAWORKS PLUS LLC Total:	**495.00**
Vendor: VEN35764 - DAVID KUNERT					
DAVID KUNERT	215572	02/16/2022	20220216	REFUND UB ACCT# 800050541 - 8864 IVYSTONE	54.30
				Vendor VEN35764 - DAVID KUNERT Total:	**54.30**
Vendor: VEN04163 - DELL MARKETING L.P.					
DELL MARKETING L.P.	215617	02/23/2022	10554175583	Dell P2422H monitors	10,722.15
DELL MARKETING L.P.	215617	02/23/2022	10554175583	OptiPlex 3090 Micro form factor PC	19,327.25
DELL MARKETING L.P.	215573	02/16/2022	10557622961	Optiplex 3090 Micro Desktops	7,730.90
DELL MARKETING L.P.	215573	02/16/2022	10557622961	Dell P2422H Monitors	2,382.70
				Vendor VEN04163 - DELL MARKETING L.P. Total:	**40,163.00**
Vendor: VEN04249 - DELTA DENTAL PLAN OF MN					
DELTA DENTAL PLAN OF MN	215618	02/23/2022	CNS0000903552	COBRA PREMIUM-MARCH 2022	465.33
DELTA DENTAL PLAN OF MN	215618	02/23/2022	CNS0000903552	EMPLOYER PREMIUM-MARCH 2022	5,842.04
DELTA DENTAL PLAN OF MN	215618	02/23/2022	CNS0000903552	EMPLOYEE PREMIUM-MARCH 2022	3,419.96
				Vendor VEN04249 - DELTA DENTAL PLAN OF MN Total:	**9,727.33**
Vendor: VEN33908 - DISCOUNT STEEL, INC					
DISCOUNT STEEL, INC	12438	02/24/2022	5252409	ANN ROUND/DOM TUBE-UTILITIES	69.81
DISCOUNT STEEL, INC	12438	02/24/2022	5253324	WELL 7 - STEEL TUBE/ALUMINUM	135.20
				Vendor VEN33908 - DISCOUNT STEEL, INC Total:	**205.01**
Vendor: VEN04269 - DULTMEIER SALES, LLC					
DULTMEIER SALES, LLC	12439	02/24/2022	3889651	FILTERS - 1202/33891	67.86
				Vendor VEN04269 - DULTMEIER SALES, LLC Total:	**67.86**
Vendor: VEN30018 - EDINA REALTY TITLE					
EDINA REALTY TITLE	215574	02/16/2022	20220216	REFUND UB ACCT# 800043324 - 7600 LAWTON A	79.16
				Vendor VEN30018 - EDINA REALTY TITLE Total:	**79.16**
Vendor: VEN05004 - ED'S TROPHIES INC					
ED'S TROPHIES INC	215575	02/16/2022	4049	SUBLIMATED NAME BADGE-LARSON	6.00
				Vendor VEN05004 - ED'S TROPHIES INC Total:	**6.00**
Vendor: VEN06020 - ELLIOTT AUTO SUPPLY					
ELLIOTT AUTO SUPPLY	12440	02/24/2022	1-Z28195	BATTERIES - STOCK ITEM	289.60
ELLIOTT AUTO SUPPLY	12440	02/24/2022	1-7364964	BATTERIES FOR WELL HOUSE GENERATORS - 6106/33895	672.76
ELLIOTT AUTO SUPPLY	12440	02/24/2022	1-Z28284	BATTERY - STOCK ITEM	289.60
				Vendor VEN06020 - ELLIOTT AUTO SUPPLY Total:	**1,251.96**
Vendor: VEN05028 - EMERGENCY APPARATUS MAINTENANCE, INC.					
EMERGENCY APPARATUS MAI	12441	02/24/2022	121841	E-4 SERVICE PUMP/GENERATOR/FOAM/INSPECTION	1,430.52

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
EMERGENCY APPARATUS MAI	12441	02/24/2022	121842	L-2 SERVICE PUMP/GENERATOR/AERIAL/FOAM/INSPECTION	2,938.29
EMERGENCY APPARATUS MAI	12441	02/24/2022	121843	E-3 SERVICE PUMP/GENERATOR/FOAM/INSPECTION	1,410.63
EMERGENCY APPARATUS MAI	12441	02/24/2022	121844	L-1 SERVICE PUMP/GENERATOR/FOAM/INSPECTION	1,502.42
EMERGENCY APPARATUS MAI	12441	02/24/2022	121840	E-1 SERVICE PUMP/GENERATOR/FOAM/INSPECTION	1,520.52
				Vendor VEN05028 - EMERGENCY APPARATUS MAINTENANCE, INC. Total:	**8,802.38**
Vendor: VEN05060 - EMERGENCY AUTOMOTIVE TECHNOLOGIES INC					
EMERGENCY AUTOMOTIVE TE	12395	02/17/2022	OAK21182	SET UP OF SQUAD 2256	4,193.51
EMERGENCY AUTOMOTIVE TE	12395	02/17/2022	SVC29525	RPL STROBE TUBE/TUBE AT PUSH BUMPER - SQUAD 1951	110.25
EMERGENCY AUTOMOTIVE TE	12395	02/17/2022	MS012022-71	CLM# CA113175 - FA4193 LIGHT REPAIR 1962/33647	164.72
EMERGENCY AUTOMOTIVE TE	12442	02/24/2022	MP011722-51	AMBULANCE 1 - WHELEN COVER ASSEMBLY	60.90
EMERGENCY AUTOMOTIVE TE	12442	02/24/2022	SVC29594	SQUAD 1962 - REPLACE ANTENNA	172.50
				Vendor VEN05060 - EMERGENCY AUTOMOTIVE TECHNOLOGIES INC Total:	**4,701.88**
Vendor: VEN05062 - ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE, INC					
ENVIRONMENTAL SYSTEMS R	12443	02/24/2022	94191040	ESRI SOFTWARE MAINTENANCE 2/7/22-2/6/2	35,000.00
				Vendor VEN05062 - ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE, INC Total:	**35,000.00**
Vendor: VEN34324 - EWT HOLDINGS III CORP					
EWT HOLDINGS III CORP	12444	02/24/2022	905233727	JANUARY EQUIPMENT RENTAL WELL 10	39,200.00
EWT HOLDINGS III CORP	12444	02/24/2022	905233727	JANUARY EQUIPMENT RENTAL WELL 3	21,600.00
EWT HOLDINGS III CORP	12444	02/24/2022	905233729	JANUARY EQUIPMENT RENTAL WELL 7/8	43,200.00
				Vendor VEN34324 - EWT HOLDINGS III CORP Total:	**104,000.00**
Vendor: VEN06001 - F JOSEPH TAYLOR, P.A.					
F JOSEPH TAYLOR, P.A.	215619	02/23/2022	20220201-1	JANUARY PROSECUTION SERVICES	12,587.50
F JOSEPH TAYLOR, P.A.	215619	02/23/2022	20220201-2	JANUARY FORFEITURE SERVICES	475.00
				Vendor VEN06001 - F JOSEPH TAYLOR, P.A. Total:	**13,062.50**
Vendor: VEN31385 - FARMER BROS CO					
FARMER BROS CO	215620	02/23/2022	94320714	BEVERAGES FOR ICE ARENA	370.20
				Vendor VEN31385 - FARMER BROS CO Total:	**370.20**
Vendor: VEN14433 - FERGUSON WATERWORKS #2518					
FERGUSON WATERWORKS #2	215621	02/23/2022	488809	UPPER & LOWER VALVE WASHER/ROD/VALVE RUB	3,107.07
				Vendor VEN14433 - FERGUSON WATERWORKS #2518 Total:	**3,107.07**
Vendor: VEN06092 - FERRELLGAS LP					
FERRELLGAS LP	12396	02/17/2022	1117893748	PROPANE-ICE	99.49
FERRELLGAS LP	12396	02/17/2022	1117931931	PROPANE-ICE	40.09
FERRELLGAS LP	12396	02/17/2022	1117977571	PROPANE-ICE	94.09
FERRELLGAS LP	12396	02/17/2022	1118027855	PROPANE-ICE	99.72
FERRELLGAS LP	12396	02/17/2022	1118070470	PROPANE-ICE	94.09
FERRELLGAS LP	12396	02/17/2022	1118121592	PROPANE-ICE	99.49
FERRELLGAS LP	12396	02/17/2022	1118162502	PROPANE-ICE	135.72
FERRELLGAS LP	12396	02/17/2022	1118216439	PROPANE-ICE	99.36
FERRELLGAS LP	12396	02/17/2022	1118259994	PROPANE-ICE	137.39
				Vendor VEN06092 - FERRELLGAS LP Total:	**899.44**

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
Vendor: VEN31978 - FIRST ADVANTAGE LNS					
FIRST ADVANTAGE LNS	12445	02/24/2022	2513162201	ANNUAL ENROLLMENTS	63.55
				Vendor VEN31978 - FIRST ADVANTAGE LNS Total:	**63.55**
Vendor: VEN31404 - FLEETPRIDE, INC					
FLEETPRIDE, INC	215576	02/16/2022	89992524	NPT ENDS & STARTER FLUID - STOCK & SS100	15.40
FLEETPRIDE, INC	215576	02/16/2022	91641668	WIPER BLADES - STOCK ITEM	55.90
FLEETPRIDE, INC	215576	02/16/2022	91710251	SNO-CAT DIESEL ADDITIVE 16OZ - STOCK ITEM	59.85
FLEETPRIDE, INC	215576	02/16/2022	91921682	BATTERIES FOR WELL HOUSE GENERATORS - 6105/33894	547.66
FLEETPRIDE, INC	215622	02/23/2022	91975135	BATTERY JUMP PACK - SHOP	749.99
FLEETPRIDE, INC	215622	02/23/2022	92300090	EXHAUST CLAMPS, OIL FLTR - STOCK ITEM	61.97
FLEETPRIDE, INC	215622	02/23/2022	92364932	MUFFLER ELBOW - 3126/33938	99.87
FLEETPRIDE, INC	215622	02/23/2022	92629482	MUDFLAPS - STOCK ITEM	44.04
FLEETPRIDE, INC	215622	02/23/2022	92671938	DUST PLUG CAP - RETURNED	5.58
FLEETPRIDE, INC	215622	02/23/2022	92703298	MUFFLER,UBOLT,CLAMPS - 3126/33938	314.49
FLEETPRIDE, INC	215622	02/23/2022	92941833	CREDIT INV# 92671938 - DUST PLUG CAP	-5.58
FLEETPRIDE, INC	215622	02/23/2022	93031888	CREDIT INV# 92364932 - CLAMPS	-21.81
FLEETPRIDE, INC	215622	02/23/2022	93031970	CREDIT INV# 92703298 - CONNECTOR	-24.26
				Vendor VEN31404 - FLEETPRIDE, INC Total:	**1,903.10**
Vendor: VEN32896 - FROST INC					
FROST INC	12397	02/17/2022	9203	FASTCAP ULD 120DEG GRAY & WHITE-RIVER OAKS	308.83
				Vendor VEN32896 - FROST INC Total:	**308.83**
Vendor: VEN35533 - GEISLINGER & SONS INC					
GEISLINGER & SONS INC	215623	02/23/2022	20220216	PYMT 5-SOUTH DISTRICT SANITARY SEWER EXT PHASE	232,997.41
				Vendor VEN35533 - GEISLINGER & SONS INC Total:	**232,997.41**
Vendor: VEN14420 - GENUINE PARTS COMPANY					
GENUINE PARTS COMPANY	12398	02/17/2022	2514-974319	SPARK PLUG-RIVER OAKS	11.93
GENUINE PARTS COMPANY	12398	02/17/2022	2514-974345	INLINE SPARK TESTER-RIVER OAKS	10.68
GENUINE PARTS COMPANY	12398	02/17/2022	2514-974474	FUEL FILTERS - 6004/33811	55.29
GENUINE PARTS COMPANY	12398	02/17/2022	2514-974622	FUEL FLTR - NEVER REC'D	26.10
GENUINE PARTS COMPANY	12398	02/17/2022	2514-974806	LIGHT BULBS - RETURNED	12.34
GENUINE PARTS COMPANY	12398	02/17/2022	2514-974976	FEELER GAUGE/STEALTH GLOVE-RIVER OAKS	42.73
GENUINE PARTS COMPANY	12398	02/17/2022	2514-974987	FUEL LINE HOSE, TRAILER WIRE, WD40-STOCK & SS100	145.86
GENUINE PARTS COMPANY	12398	02/17/2022	2514-975022	PIGTAIL SOCKET - 1302/33827	15.97
GENUINE PARTS COMPANY	12446	02/24/2022	2514-975208	BRAKE PADS - 2066/33842	56.99
GENUINE PARTS COMPANY	12446	02/24/2022	2514-975360	AIR FILTER-RIVER OAKS	27.29
GENUINE PARTS COMPANY	12446	02/24/2022	2514-975379	OIL PUMP/GEAR OIL-RIVER OAKS	43.77
GENUINE PARTS COMPANY	12398	02/17/2022	2514-975412	CREDIT INV# 2514-974806 - LIGHT BULBS	-12.34
GENUINE PARTS COMPANY	12446	02/24/2022	2514-975551	EXTERIOR DOOR HANDLE - 2201/33867	44.06
GENUINE PARTS COMPANY	12446	02/24/2022	2514-975757	BATTERY CABLE TERMINALS - 8204/33849	14.89
GENUINE PARTS COMPANY	12446	02/24/2022	2514-976168	LENS - 1202/33891	14.70
GENUINE PARTS COMPANY	12446	02/24/2022	2514-976179	ALTERNATOR - 1503/33844	169.56
GENUINE PARTS COMPANY	12446	02/24/2022	2514-976264	LIGHTS - 8404/33892	4.82

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
GENUINE PARTS COMPANY	12446	02/24/2022	2514-976335	COMPRESSOR OIL & FUEL LINE - SS100	24.43
GENUINE PARTS COMPANY	12446	02/24/2022	2514-976452	TIE RODS - 1801/33899	446.33
GENUINE PARTS COMPANY	12446	02/24/2022	2514-976488	GEAR OIL-RIVER OAKS	37.15
GENUINE PARTS COMPANY	12446	02/24/2022	2514-976501	WHEEL NUT - 5003/33904	157.40
GENUINE PARTS COMPANY	12446	02/24/2022	2514-976543	TORQUE WRENCH-RIVER OAK	229.78
GENUINE PARTS COMPANY	12446	02/24/2022	2514-976686	CREDIT INV# 2514-976335 - HOSES	-5.11
GENUINE PARTS COMPANY	12398	02/17/2022	2514-976825	CREDIT INV# 2514-974622 - FUEL FLTR NEVER REC'D	-26.10
GENUINE PARTS COMPANY	12446	02/24/2022	2514-976826	CREDIT INV# 2514-976179 - ALTERNATOR CORE	-27.50
				Vendor VEN14420 - GENUINE PARTS COMPANY Total:	**1,521.02**
Vendor: VEN07606 - GERLACH SERVICE INC.					
GERLACH SERVICE INC.	12399	02/17/2022	55320	TANK CAP/NUT-FIRE CHAINSAW REPAIR	27.56
				Vendor VEN07606 - GERLACH SERVICE INC. Total:	**27.56**
Vendor: VEN34810 - GHM ASPHALT CORPORATION					
GHM ASPHALT CORPORATION	215624	02/23/2022	20220203	PYMT 7/FINAL-WPT DOUGLAS ROAD IMPROVE THRU 1/12/2	34,582.24
GHM ASPHALT CORPORATION	215624	02/23/2022	20220203	PYMT 7/FINAL-WPT DOUGLAS ROAD IMPROVE THRU 1/12/2	49,154.89
				Vendor VEN34810 - GHM ASPHALT CORPORATION Total:	**83,737.13**
Vendor: VEN32232 - GOODYEAR COMMERCIAL TIRE & SERVICE CENTERS					
GOODYEAR COMMERCIAL TIR	215625	02/23/2022	124-1104064	TIRES - STOCK ITEM	600.88
				Vendor VEN32232 - GOODYEAR COMMERCIAL TIRE & SERVICE CENTERS Total:	**600.88**
Vendor: VEN15382 - GOPHER STATE ONE CALL					
GOPHER STATE ONE CALL	12447	02/24/2022	2010314	JANUARY ONE CALL TICKETS	281.75
				Vendor VEN15382 - GOPHER STATE ONE CALL Total:	**281.75**
Vendor: VEN33410 - GOVCONNECTION, INC					
GOVCONNECTION, INC	12448	02/24/2022	72409036	SURFACE PRO 7-EDA	1,221.97
				Vendor VEN33410 - GOVCONNECTION, INC Total:	**1,221.97**
Vendor: VEN34836 - GOVQA, LLC					
GOVQA, LLC	215577	02/16/2022	INV1409	CRM SUBSCRIPTION SERVICES 2/1/22-1/31/23	6,340.00
				Vendor VEN34836 - GOVQA, LLC Total:	**6,340.00**
Vendor: VEN07015 - GRAINGER					
GRAINGER	12449	02/24/2022	9191768036	CLEANER/DEGREASER-RIVER OAKS	27.25
GRAINGER	12449	02/24/2022	9192727916	VISE FOR TRUCK - 1602/3388	344.11
GRAINGER	12449	02/24/2022	9193964625	TRASH BAGS-ICE ARENA	169.92
GRAINGER	12449	02/24/2022	9196569942	PALLET PULLER - SMALL TOOL	147.02
				Vendor VEN07015 - GRAINGER Total:	**688.30**
Vendor: VEN07023 - GRAPHIC DESIGN INC					
GRAPHIC DESIGN INC	215578	02/16/2022	QB41636	JANUARY NEWSLETTER	4,725.62
				Vendor VEN07023 - GRAPHIC DESIGN INC Total:	**4,725.62**
Vendor: VEN13406 - GREAT LAKES COCA-COLA DISTRIBUTION, LLC					
GREAT LAKES COCA-COLA DIS	12400	02/17/2022	3610214444	BEVERAGES FOR ICE ARENA	369.95
GREAT LAKES COCA-COLA DIS	12400	02/17/2022	3610214444	BEVERAGES FOR ICE ARENA	382.46
GREAT LAKES COCA-COLA DIS	12400	02/17/2022	3610214445	RETURN CO2 TANK	-75.00
GREAT LAKES COCA-COLA DIS	12400	02/17/2022	3610214519	BEVERAGES FOR ICE ARENA	36.21
GREAT LAKES COCA-COLA DIS	12400	02/17/2022	3610214519	BEVERAGES FOR ICE ARENA	816.44
GREAT LAKES COCA-COLA DIS	12400	02/17/2022	3610214584	RETURN CO2 TANK	-75.00
				Vendor VEN13406 - GREAT LAKES COCA-COLA DISTRIBUTION, LLC Total:	**1,455.06**
Vendor: VEN33879 - GREATAMERICA FINANCIAL SERVICES CORPORATION					
GREATAMERICA FINANCIAL SE	215626	02/23/2022	31048047	MAIL MACHINE METER RENTAL - FEBRUARY	293.95
				Vendor VEN33879 - GREATAMERICA FINANCIAL SERVICES CORPORATION Total:	**293.95**

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
Vendor: VEN33637 - GUARDIAN SUPPLY, LLC					
GUARDIAN SUPPLY, LLC	12401	02/17/2022	11191	UNIFORM-DAVICK	2,517.28
GUARDIAN SUPPLY, LLC	12401	02/17/2022	11192	BULLETPROOF VEST-DAVICK	1,255.00
GUARDIAN SUPPLY, LLC	12401	02/17/2022	11193	UNIFORM-WYLIE	2,559.26
GUARDIAN SUPPLY, LLC	12401	02/17/2022	11194	BULLETPROOF VEST-WYLIE	1,255.00
GUARDIAN SUPPLY, LLC	12450	02/24/2022	11235	BULLETPROOF VEST-BELMARE	1,499.99
				Vendor VEN33637 - GUARDIAN SUPPLY, LLC Total:	**9,086.53**
Vendor: VEN33161 - GUARDIAN TRACKING LLC					
GUARDIAN TRACKING LLC	12451	02/24/2022	SI-002119	ANNUAL GUARDIAN TRACKING SOFTWARE 3/2/22	2,332.00
				Vendor VEN33161 - GUARDIAN TRACKING LLC Total:	**2,332.00**
Vendor: VEN08013 - H&L MESABI					
H&L MESABI	12452	02/24/2022	9570	SPLICE PLATES FOR PLOWS - STOCK ITEM	2,342.00
				Vendor VEN08013 - H&L MESABI Total:	**2,342.00**
Vendor: VEN29202 - HEGGIES PIZZA LLC					
HEGGIES PIZZA LLC	215627	02/23/2022	1191129010	PIZZA FOR ICE ARENA	125.30
				Vendor VEN29202 - HEGGIES PIZZA LLC Total:	**125.30**
Vendor: VEN16106 - HHTC INC					
HHTC INC	12453	02/24/2022	MI-T00010786	O RING KIT-RIVER OAKS	62.78
				Vendor VEN16106 - HHTC INC Total:	**62.78**
Vendor: VEN32979 - HILLYARD, INC					
HILLYARD, INC	215628	02/23/2022	604626283	TOILET PAPER/FLOOR CLEANER-ICE ARENA	475.30
				Vendor VEN32979 - HILLYARD, INC Total:	**475.30**
Vendor: VEN35766 - HOWARD TELLIN					
HOWARD TELLIN	215579	02/16/2022	20220216	REFUND UB ACCT# 101657590 - 8355 HARKNESS	23.05
				Vendor VEN35766 - HOWARD TELLIN Total:	**23.05**
Vendor: VEN33989 - ICE SPORTS INDUSTRY					
ICE SPORTS INDUSTRY	215580	02/16/2022	48862	SKATER TEST/PATCH PRE-ALPHA	87.00
				Vendor VEN33989 - ICE SPORTS INDUSTRY Total:	**87.00**
Vendor: VEN09001 - ICMA RETIREMENT TRUST-457,ROTH					
ICMA RETIREMENT TRUST-45	12498	02/24/2022	INV024883	2/24/22 BIWEEKLY PAYROLL 1/31/22-2/13/22	2,830.76
ICMA RETIREMENT TRUST-45	12498	02/24/2022	INV024884	2/24/22 BIWEEKLY PAYROLL 1/31/22-2/13/22	7,732.72
ICMA RETIREMENT TRUST-45	12498	02/24/2022	INV024885	2/24/22 BIWEEKLY PAYROLL 1/31/22-2/13/22	1,045.10
				Vendor VEN09001 - ICMA RETIREMENT TRUST-457,ROTH Total:	**11,608.58**
Vendor: VEN31155 - INDIANHEAD GLASS, INC					
INDIANHEAD GLASS, INC	215629	02/23/2022	I30012286	INSTALL TEMPERED GLASS, O/S LABOR - CITY HALL	668.34
				Vendor VEN31155 - INDIANHEAD GLASS, INC Total:	**668.34**
Vendor: VEN30088 - INSTRUMENTAL RESEARCH, INC					
INSTRUMENTAL RESEARCH, IN	215630	02/23/2022	3888	JANUARY WATER TESTING	2,196.01
				Vendor VEN30088 - INSTRUMENTAL RESEARCH, INC Total:	**2,196.01**
Vendor: VEN09024 - INVER GROVE FORD					
INVER GROVE FORD	12402	02/17/2022	5310139	LAMP ASY - 1404/33813	46.17
INVER GROVE FORD	12454	02/24/2022	5310345	FRNT ROTORS & BRAKE PADS - NEW STOCK ITEM	261.52
INVER GROVE FORD	12454	02/24/2022	5310432	AIR FILTERS - STOCK ITEM	27.76
INVER GROVE FORD	12454	02/24/2022	5310433	BRAKE PADS - 2066/33842	45.99
INVER GROVE FORD	12454	02/24/2022	6359500	RPR EXHAUST & CK TRANSMISSION - 1858/33869	1,343.63
INVER GROVE FORD	12454	02/24/2022	5310576	WINDSHIELD WASHER HOSE - 1858/33869	15.70

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
INVER GROVE FORD	12454	02/24/2022	6359787	TIRE REPAIR - 1410/33872	831.81
INVER GROVE FORD	12454	02/24/2022	5310690	FUEL INJECTOR SENSOR - 4202/33896	79.01
INVER GROVE FORD	12454	02/24/2022	5310850	WIPERS & ROTORS - STOCK ITEM	150.49
INVER GROVE FORD	12454	02/24/2022	5311064	CREDIT INV# 5305175 - WARRANTEED BRAKES	-45.99
				Vendor VEN09024 - INVER GROVE FORD Total:	**2,756.09**
Vendor: VEN09255 - I-STATE TRUCK CENTER					
I-STATE TRUCK CENTER	215631	02/23/2022	R242126453-01	EXHAUST RPRS, O/S LABOR - 4001/33877	3,008.67
				Vendor VEN09255 - I-STATE TRUCK CENTER Total:	**3,008.67**
Vendor: VEN09103 - IUOE CENTRAL PENSION FUND					
IUOE CENTRAL PENSION FUN	12455	02/24/2022	INV024871	2/10/22 BIWEEKLY PAYROLL 1/17/22-1/30/22	7,296.00
IUOE CENTRAL PENSION FUN	12499	02/24/2022	INV024886	2/24/22 BIWEEKLY PAYROLL 1/31/22-2/13/22	7,296.00
				Vendor VEN09103 - IUOE CENTRAL PENSION FUND Total:	**14,592.00**
Vendor: VEN35762 - JASON/LINNEA GAMACHE					
JASON/LINNEA GAMACHE	215581	02/16/2022	20220216	REFUND UB ACCT# 800049726 - 8401 RIVER ACR	17.34
				Vendor VEN35762 - JASON/LINNEA GAMACHE Total:	**17.34**
Vendor: VEN35630 - JAYTECH INC					
JAYTECH INC	215582	02/16/2022	212184	WATER METERS-WEST & NORTH/SOUTH COOLING TOWERS	580.72
				Vendor VEN35630 - JAYTECH INC Total:	**580.72**
Vendor: VEN08309 - JEFF HENDRICKSON					
JEFF HENDRICKSON	215632	02/23/2022	20220223	REIMBURSEMENT FOR HEARING TEST	189.50
				Vendor VEN08309 - JEFF HENDRICKSON Total:	**189.50**
Vendor: VEN34318 - JEFFERY WARNER					
JEFFERY WARNER	215633	02/23/2022	20220223	MEAL REIMBURSEMENTS FOR 49ER TRAINING 10/4-10/7/21	118.73
				Vendor VEN34318 - JEFFERY WARNER Total:	**118.73**
Vendor: VEN11026 - JENNARI GROUP					
JENNARI GROUP	12403	02/17/2022	77812	REPAIR BRAKES, O/S LABOR - 4008/33847	1,310.62
JENNARI GROUP	12456	02/24/2022	77918	DOT INSPECTION & BRAKE REPAIRS - 6004/33900	462.93
				Vendor VEN11026 - JENNARI GROUP Total:	**1,773.55**
Vendor: VEN35769 - JOHN SCANLAN					
JOHN SCANLAN	215634	02/23/2022	20220223	REIMBURSEMENT FOR PGA MEMBERSHIP DUES	58.99
JOHN SCANLAN	215634	02/23/2022	20220223	REIMBURSEMENT FOR PGA MEMBERSHIP DUES	247.02
				Vendor VEN35769 - JOHN SCANLAN Total:	**306.01**
Vendor: VEN31197 - JT SERVICES OF MINNESOTA					
JT SERVICES OF MINNESOTA	12457	02/24/2022	JT22-031-03	STREETLIGHTS - ROLLING MEADOWS	9,870.00
JT SERVICES OF MINNESOTA	12457	02/24/2022	JT22-031-04	LED LIGHTING - STOCK	4,230.00
JT SERVICES OF MINNESOTA	12457	02/24/2022	JT22-031-08	STREETLIGHTS - SETTLERS BLUFF	4,060.00
JT SERVICES OF MINNESOTA	12457	02/24/2022	JT22-031-09	PLASTIC WASHER & LOCK WASHER - SIGN SHOP	1,169.58
				Vendor VEN31197 - JT SERVICES OF MINNESOTA Total:	**19,329.58**
Vendor: VEN31290 - JUDITH A GRAF					
JUDITH A GRAF	12404	02/17/2022	20220131-1	JANUARY COUNCIL MEETING MINUTES	118.08

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
JUDITH A GRAF	12404	02/17/2022	20220131-2	JANUARY TRANSCRIPTION SERVICES	152.92
JUDITH A GRAF	12404	02/17/2022	20220131-3	JANUARY CGCVB MEETING MINUTES	35.44
JUDITH A GRAF	12404	02/17/2022	20220131-4	JANUARY EDA MEETING MINUTES	25.76
JUDITH A GRAF	12404	02/17/2022	20220131-5	JANUARY PLANNING COMMISSION MEETING MINUTES	80.30
JUDITH A GRAF	12404	02/17/2022	20220131-6	INTERVIEW-MORCOS/FISCHBACH/PRITCHARD	28.87
				Vendor VEN31290 - JUDITH A GRAF Total:	**441.37**
Vendor: VEN35761 - JUSTIN MICHAEL MILLER					
JUSTIN MICHAEL MILLER	215583	02/16/2022	20220216	BACKGROUND INVESTIGATION COURSE REGI	1,800.00
				Vendor VEN35761 - JUSTIN MICHAEL MILLER Total:	**1,800.00**
Vendor: VEN33878 - KENDELL DOORS & HARDWARE, INC					
KENDELL DOORS & HARDWAR	215584	02/16/2022	IN045153	WALL MNT U SCREEN BRACKETS - CITY HALL	389.41
				Vendor VEN33878 - KENDELL DOORS & HARDWARE, INC Total:	**389.41**
Vendor: VEN11002 - KENNEDY AND GRAVEN					
KENNEDY AND GRAVEN	215635	02/23/2022	165767	TIF DISTRICT 1-20 NORTHPOINTE INDUSTRIAL	3,120.00
				Vendor VEN11002 - KENNEDY AND GRAVEN Total:	**3,120.00**
Vendor: VEN11018 - KEYS WELL DRILLING COMPANY					
KEYS WELL DRILLING COMPA	12458	02/24/2022	20211206	PYMT 11/FINAL-RIVER ACRES WELL SEALING 10/16-12/6	39,033.38
				Vendor VEN11018 - KEYS WELL DRILLING COMPANY Total:	**39,033.38**
Vendor: VEN35767 - KHIA BROWN					
KHIA BROWN	215585	02/16/2022	20220216	REFUND UB ACCT# 800036549 - 6761 WILDFLOW	42.45
				Vendor VEN35767 - KHIA BROWN Total:	**42.45**
Vendor: VEN31717 - KRAFT CONTRACTING & MECHANICAL LLC					
KRAFT CONTRACTING & MEC	12405	02/17/2022	24001	HEATER REPAIR - CITY HALL	1,442.58
KRAFT CONTRACTING & MEC	12405	02/17/2022	24007	CHECKED FURNACE - HIGHLAND PARK	260.00
KRAFT CONTRACTING & MEC	12459	02/24/2022	S285	REPAIR NORTH DEHUMIDIFICATION UNIT FAN MOTOR-ICE	1,105.00
KRAFT CONTRACTING & MEC	12459	02/24/2022	24120	PREVENTATIVE MAINTENANCE - PSCH	2,560.00
				Vendor VEN31717 - KRAFT CONTRACTING & MECHANICAL LLC Total:	**5,367.58**
Vendor: VEN35654 - LARKIN HOFFMAN DALY & LINDGREN LTD					
LARKIN HOFFMAN DALY & LIN	12460	02/24/2022	799904	AGG INDUSTRIES MINE EXPANSION-ENVIRONMENTAL REVIEW	3,503.00
				Vendor VEN35654 - LARKIN HOFFMAN DALY & LINDGREN LTD Total:	**3,503.00**
Vendor: VEN12341 - LAWSON PRODUCTS, INC					
LAWSON PRODUCTS, INC	215586	02/16/2022	9309220299	HARDWARE & HYDR ENDS - STOCK & SHOP SUPPLY SS100	115.85
LAWSON PRODUCTS, INC	215636	02/23/2022	9309265951	HYDR ENDS,HARDWARE - STOCK ITEMS & SHOP SUPPLY	407.35
				Vendor VEN12341 - LAWSON PRODUCTS, INC Total:	**523.20**
Vendor: VEN31896 - LEVANDER, GILLEN & MILLER, P.A.					
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	MISC FINANCE JAN LEGAL SVC	2,080.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	MISC PERSONNEL JAN LEGAL SVCS	640.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	GOLF COURSE JAN LEGAL SVC	768.00

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	MISC PARKS & RECREATION JAN LEGAL SVCS	64.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	ICE ARENA JAN LEGAL SVCS	128.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	MAYOR & COUNCIL JAN LEGAL SVCS	2,811.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	MISC COMMUNITY DEVELOPMENT JAN LEGAL SVCS	176.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	MISC POLICE JAN LEGAL SVCS	101.50
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	MISC PUBLIC WORKS JAN LEGAL SVCS	264.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	RENEWAL 2021 JAN LEGAL SVCS	796.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	RECODIFICATION OF CITY&ZONING CODE JAN LEGAL SVCS	4,800.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	ENDEAVOR JAN LEGAL SVCS	335.50
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	SYNDICA LLP JAN LEGAL SVCS	704.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	AIRGAS JAN LEGAL SVCS	1,052.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	GLENGROVE INDUSTRIAL PARK 9TH ADD JAN LEGAL SVC	189.50
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	RYAN COMPANIES DEVELOPMENT JAN LEGAL SVCS	465.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	INTERSTATE DEVELOPMENT JAN LEGAL SVCS	72.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	WATERMAIN EXTENSION-GOODVIEW AVE JAN LEGAL SVCS	5,438.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	DISH AT INWOOD/HIGHLANDS JAN LE	48.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	EAST PT DOUGLAS/JAMAICA AVE PROJECT JAN LEGAL SVCS	910.50
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	VERIZON WIRELESS LEASE-PW SITE JAN LEGAL SVCS	576.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	NORTHPOINT DEVELOPMENT JAN LEGAL SVCS	183.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	PARKVIEW POINTE JAN LEGAL SVCS	73.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	WATER QUALITY ISSUES (PFC) JAN LEGAL SVCS	766.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	HAWTHORNE PINES 2ND ADD JAN LEGAL SVCS	664.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	HARDWOOD SUBDIVISION JAN LEGAL SVCS	130.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	OLD CITY HALL REDEVELOPMENT JAN LEGAL SVCS	88.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	UP NORTH PLASTICS JAN LEGAL SVCS	50.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	61 MARINE JAN LEGAL SVCS	12.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	WOODWARD PONDS 2ND ADD JAN LEGAL SVCS	10.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	GLACIAL VALLEY 2ND ADD JAN LEGAL SVCS	534.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	WOODWARD PONDS 3RD ADD JAN LEGAL SVCS	1,064.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	SETTLER'S BLUFF JAN LEGAL SVCS	205.00
LEVANDER, GILLEN & MILLER,	12461	02/24/2022	20220131	SETTLER'S BLUFF 2ND ADD JAN LEGAL SVCS	1,734.00
				Vendor VEN31896 - LEVANDER, GILLEN & MILLER, P.A. Total:	**27,932.00**

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
Vendor: VEN35668 - LRS PORTABLES LLC					
LRS PORTABLES LLC	12464	02/24/2022	198330	TOILET RENTAL - OAKWOOD PARK	60.00
LRS PORTABLES LLC	12464	02/24/2022	198331	TOILET RENTAL - WAG FARMS DOG PARK	60.00
LRS PORTABLES LLC	12464	02/24/2022	198332	TOILET RENTAL - RIVER OAKS	120.00
LRS PORTABLES LLC	12464	02/24/2022	198333	TOILET RENTAL - HAMLET PAR	125.00
LRS PORTABLES LLC	12464	02/24/2022	198334	TOILET RENTAL - KINGSTON PARK	125.00
LRS PORTABLES LLC	12464	02/24/2022	198335	TOILET RENTAL - WOODRIDGE PARK	125.00
LRS PORTABLES LLC	12464	02/24/2022	198336	TOILET RENTAL - PINE TREE VALLEY PARK	60.00
LRS PORTABLES LLC	12464	02/24/2022	198337	TOILET RENTAL - PUBLIC WORKS	60.00
LRS PORTABLES LLC	12464	02/24/2022	198338	TOILET RENTAL - HAMLET PARK SOUTH	60.00
				Vendor VEN35668 - LRS PORTABLES LLC Total:	**795.00**
Vendor: VEN30050 - LUBE-TECH & PARTNERS, LLC					
LUBE-TECH & PARTNERS, LLC	12465	02/24/2022	2824981	USED OIL FILTER/ANTIFREEZE PICK UP-PUBLIC DROP OFF	160.00
				Vendor VEN30050 - LUBE-TECH & PARTNERS, LLC Total:	**160.00**
Vendor: VEN13422 - MACQUEEN EQUIPMENT INC					
MACQUEEN EQUIPMENT INC	12466	02/24/2022	P39654	IDLER BEARING - 31 MISC/33865	312.58
MACQUEEN EQUIPMENT INC	12466	02/24/2022	P39781	SHEAR PINS, BUSHINGS, & BOLT - 9007/33906	343.89
				Vendor VEN13422 - MACQUEEN EQUIPMENT INC Total:	**656.47**
Vendor: VEN32230 - MANSFIELD OIL COMPANY					
MANSFIELD OIL COMPANY	12406	02/17/2022	22923557	754 GAL UNLEADED GASOLIN	1,491.72
MANSFIELD OIL COMPANY	12467	02/24/2022	22955624	1,000 GAL DYED DIESEL	2,888.87
MANSFIELD OIL COMPANY	12467	02/24/2022	22955650	1,001 GAL UNLEADED GASOLINE	2,797.92
				Vendor VEN32230 - MANSFIELD OIL COMPANY Total:	**7,178.51**
Vendor: VEN13494 - MARCO HOLDINGS, LLC					
MARCO HOLDINGS, LLC	12407	02/17/2022	36098	WEB FAX SERVICES 1/16/22-2/15/22	47.60
MARCO HOLDINGS, LLC	12407	02/17/2022	37212	WEB FAX SERVICES 2/16/22-3/15/22	45.20
				Vendor VEN13494 - MARCO HOLDINGS, LLC Total:	**92.80**
Vendor: VEN13668 - MARTIN-MCALLISTER					
MARTIN-MCALLISTER	12468	02/24/2022	14399	PUBLIC SAFETY ASSESSMENT-DAVICK/WYLIE	1,200.00
				Vendor VEN13668 - MARTIN-MCALLISTER Total:	**1,200.00**
Vendor: VEN34147 - MCMULLEN INSPECTING, INC					
MCMULLEN INSPECTING, INC	12469	02/24/2022	20220201-1	JANUARY ELECTRICAL INSPECTIONS-COTTAGE GROV	21,186.74
MCMULLEN INSPECTING, INC	12469	02/24/2022	20220201-2	JANUARY ELECTRICAL INSPECTIONS-DENMARK	410.28
				Vendor VEN34147 - MCMULLEN INSPECTING, INC Total:	**21,597.02**
Vendor: VEN13662 - MEDICA					
MEDICA	215637	02/23/2022	569737186282	COBRA PREMIUM-MARCH 2022	3,904.63
MEDICA	215637	02/23/2022	569737186282	MN STAT 299A.465 PREMIUM -MARCH 2022	2,713.37
MEDICA	215637	02/23/2022	569737186282	EMPLOYEE PREMIUM-MARCH 2022	19,514.48
MEDICA	215637	02/23/2022	569737186282	EMPLOYER PREMIUM-MARCH 2022	95,423.94
				Vendor VEN13662 - MEDICA Total:	**121,556.42**

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
Vendor: VEN13410 - MENARDS					
MENARDS	12470	02/24/2022	48982	WELL 10 - GALVANIZED STRUT/DRILL BIT/FLANGE/WASHER	107.50
MENARDS	12470	02/24/2022	49036	LED LIGHTS/LAMPHOLDER-WATER	103.31
MENARDS	12408	02/17/2022	49227	CABLE CLAMP/FURNITURE SLIDERS/SCREW/PLYWOOD-HERO	147.52
MENARDS	12408	02/17/2022	49231	COIL/REDPEX TUBING/PIPE FITTING/BOILER DRAIN-PARKS	98.95
MENARDS	12408	02/17/2022	49236	CREDIT INV# 49231 - PIPE FITTINGS	-5.77
MENARDS	12408	02/17/2022	49237	GALV STRAP-PARKS	2.79
MENARDS	12408	02/17/2022	49239	CREDIT INV# 49231 - PIPE FITTINGS	-12.29
MENARDS	12408	02/17/2022	49240	DRAIN VALVE/PIPE FITTINGS-PARKS	11.58
MENARDS	12408	02/17/2022	49242	VINYL GLOVES-STREETS	43.96
MENARDS	12408	02/17/2022	49274	HINGE/HASP/BUNGEE/BOLTS-HERO	51.92
MENARDS	12408	02/17/2022	49280	CLOROX WIPES/PINESOL-PAR	58.52
MENARDS	12408	02/17/2022	49286	EXTEN CORD/NITRILE GLOVE/TOWELS/AUTO LUBRICANTS	402.24
MENARDS	12408	02/17/2022	49320	HD SPRAY BOTTLE-FORESTRY	6.96
MENARDS	12408	02/17/2022	49324	WATER FILTER SYSTEM/PIPE FITTINGS-HERO	342.36
MENARDS	12408	02/17/2022	49330	WATER LINE-HERO	14.99
MENARDS	12408	02/17/2022	49330	BIT & HOLDER-TOOLS	38.98
MENARDS	12408	02/17/2022	49339	WELL 10 - STEP LADDER	68.50
MENARDS	12408	02/17/2022	49341	HEATER/GLOVES/PAINT MARKER/MAT-RIVER OAKS	105.59
MENARDS	12408	02/17/2022	49355	MILKHOUSE HEATER-HERO	119.94
MENARDS	12408	02/17/2022	49405	AIR HOSE & COUPLER FOR SHOP	15.47
MENARDS	12408	02/17/2022	49415-2022	METAL POLISH/ERASER/CLEANER-CENTRAL FIRE	58.46
MENARDS	12408	02/17/2022	49417-2022	ALL PURPOSE WASH-PD	6.49
MENARDS	12470	02/24/2022	49539	HEX BOLT/FLAT WASHER/HEX NUT-HERO CENTER	7.16
MENARDS	12470	02/24/2022	49544	LAG SCREWS-HERO CENTER	13.74
MENARDS	12470	02/24/2022	49545	PLYWOOD/FURRING STRIP/SCREWS-HERO CENTER	311.99
MENARDS	12470	02/24/2022	49546	SOCKET SET/NUT DRIVER/HOSE CLAMPS-PARKS	20.84
MENARDS	12470	02/24/2022	49560	WELL 10 - WRENCHES/STEP LADDER	272.85
MENARDS	12470	02/24/2022	49583	PIPE FITTINGS-WATER	42.73
MENARDS	12470	02/24/2022	49599	TIE DOWNS/CLAMPS/CLNR/TUBS - SHOP SUPPLIES	170.02
MENARDS	12470	02/24/2022	49602	TOUGH STUFF SHELVING BRACKETS & ACCESSORIES-HERO	125.83
MENARDS	12470	02/24/2022	49606	PIPE FITTINGS/GLOVES/SHOP TOWELS-STREETS	48.95
MENARDS	12470	02/24/2022	49643	GRIP JAR/WEDGE ANCHORS-HERO CENTER	16.11
MENARDS	12470	02/24/2022	49769	WELL 10 - TOOL TRACK RAIL & HOLDERS/STRAPS/COVER	51.84
MENARDS	12470	02/24/2022	49772	WINDOW BLINDS/DRILL BIT-CITY HALL	54.93

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
MENARDS	12470	02/24/2022	49802	AAA BATTERIES-PD	22.41
MENARDS	12470	02/24/2022	49818	CREDIT INV# 49772 - WINDOW BLINDS	-45.94
MENARDS	12470	02/24/2022	49819-2022	CELLULAR SHADE-CITY HALL	109.96
MENARDS	12470	02/24/2022	49832	TAPE/BATTERIES-RIVER OAKS	90.70
MENARDS	12470	02/24/2022	49846	WELL 10 - DOOR CLOSER	73.99
MENARDS	12470	02/24/2022	49848	3V BATTERIES/GLASS CLEANER/TAPE-PD	108.63
MENARDS	12470	02/24/2022	49874	WINDOW SHADE-CITY HALL	99.98
MENARDS	12470	02/24/2022	49877-2022	GLOVES/TOOL HOLDER/TOWELS/HOOKS/BOLTS/SPRAYPAINT	91.35
MENARDS	12470	02/24/2022	49888	WASTEBASKET/GROMMETS/CLEANING SUPPLIES-RIVER OA	38.46
MENARDS	12470	02/24/2022	49927	CLEANING SUPPLIES-CENTRAL FIRE	33.18
MENARDS	12470	02/24/2022	49933	VEHICLE WASH/POLISH/CLEANERS-STREETS	126.70
				Vendor VEN13410 - MENARDS Total:	**3,674.38**
Vendor: VEN31420 - METRO FURNITURE SOLUTIONS BY HENRICKSEN					
METRO FURNITURE SOLUTIO	12472	02/24/2022	724518	FOLDER HOLDER,PAPER WAVE,W-SLAT RAIL ATTACHMENT	369.43
				Vendor VEN31420 - METRO FURNITURE SOLUTIONS BY HENRICKSEN Total:	**369.43**
Vendor: VEN13461 - METRO SALES INCORPORATED					
METRO SALES INCORPORATE	12410	02/17/2022	INV1956339	RICOH COPIER LEASE PD ADMIN 12/31/21-1/30/22	45.00
METRO SALES INCORPORATE	12473	02/24/2022	INV1976799	RICOH COPIER LEASE PD ADMIN 1/31/22-2/27/22	45.00
				Vendor VEN13461 - METRO SALES INCORPORATED Total:	**90.00**
Vendor: VEN13411 - METROPOLITAN COUNCIL					
METROPOLITAN COUNCIL	12474	02/24/2022	202201	JANUARY SAC CHARGES	62,125.00
METROPOLITAN COUNCIL	12474	02/24/2022	202201	JANUARY SAC CHARGES DISCOUNT	-621.25
				Vendor VEN13411 - METROPOLITAN COUNCIL Total:	**61,503.75**
Vendor: VEN13412 - METROPOLITAN COUNCIL					
METROPOLITAN COUNCIL	12475	02/24/2022	1135899	MARCH WASTE WATER SERVICES	200,287.56
				Vendor VEN13412 - METROPOLITAN COUNCIL Total:	**200,287.56**
Vendor: VEN13429 - MEYER SEWER SERVICE					
MEYER SEWER SERVICE	215638	02/23/2022	11079	PUMPED FLOOR DRAINS & SUMPS - PD	425.00
MEYER SEWER SERVICE	215587	02/16/2022	83329	PUMPED MAINT BLDG HOLDING TANK	200.00
				Vendor VEN13429 - MEYER SEWER SERVICE Total:	**625.00**
Vendor: VEN35490 - MIDWEST WASH SYSTEMS LLC					
MIDWEST WASH SYSTEMS LLC	12411	02/17/2022	11871	CAR WASH BULK SOAP-PUBLIC SAFETY	669.38
MIDWEST WASH SYSTEMS LLC	12411	02/17/2022	11897	RPL HOSE,O/S LABOR-CENTRAL FIRE	391.55
MIDWEST WASH SYSTEMS LLC	12476	02/24/2022	12001	HOSE BUMPER - CENTRAL FIR	28.40
				Vendor VEN35490 - MIDWEST WASH SYSTEMS LLC Total:	**1,089.33**
Vendor: VEN33362 - MILBANK WINWATER WORKS					
MILBANK WINWATER WORKS	215588	02/16/2022	175285 01	3/4" WATER METERS	34,461.00
				Vendor VEN33362 - MILBANK WINWATER WORKS Total:	**34,461.00**
Vendor: VEN35694 - MILL SUPPLY INC					
MILL SUPPLY INC	215589	02/16/2022	256070	CUTTING EDGES FOR V-BLADES - 1503/33884&1504/	2,421.42
				Vendor VEN35694 - MILL SUPPLY INC Total:	**2,421.42**

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
Vendor: VEN33770 - MILLE LACS CORPORATE VENTURES					
MILLE LACS CORPORATE VENT	215590	02/16/2022	2881	49ER TRAINING LODGING-EVENSON	391.16
				Vendor VEN33770 - MILLE LACS CORPORATE VENTURES Total:	**391.16**
Vendor: VEN35690 - MINNESOTA AG POWER INC					
MINNESOTA AG POWER INC	12412	02/17/2022	9018869	EXCHANGED WRAP CHAP 3 FOR CHAPPS-STREETS	-31.00
MINNESOTA AG POWER INC	12412	02/17/2022	9018874	REAR VIEW MIRROR - 8408/33848	82.26
MINNESOTA AG POWER INC	12412	02/17/2022	9020045	WIRING LEAD - 6001/33819	20.55
MINNESOTA AG POWER INC	12412	02/17/2022	9020051	VALVE,UNION,ORINGS,WASHER - 31MISC/33770	42.73
MINNESOTA AG POWER INC	12477	02/24/2022	9024867	MULCH KIT-RIVER OAKS	404.01
MINNESOTA AG POWER INC	12477	02/24/2022	9024873	HYDRAULIC CYLINDER-RIVER OAKS	572.61
MINNESOTA AG POWER INC	12477	02/24/2022	9024876	SPACER/FILTER ELEMENT/BUSHING/SAW CHAIN-RIVER OAKS	187.93
				Vendor VEN35690 - MINNESOTA AG POWER INC Total:	**1,279.09**
Vendor: VEN13473 - MN CHILD SUPPORT CENTER					
MN CHILD SUPPORT CENTER	215664	02/23/2022	INV024889	2/24/22 BIWEEKLY PAYROLL 1/31/22-2/13/22	54.44
				Vendor VEN13473 - MN CHILD SUPPORT CENTER Total:	**54.44**
Vendor: VEN13670 - MN DEPT OF LABOR & INDUSTRY					
MN DEPT OF LABOR & INDUS	12478	02/24/2022	ABR0277891X	2022 ANNUAL BOILER FEES - PSCH	50.00
MN DEPT OF LABOR & INDUS	12478	02/24/2022	202201-CG	JAN BLDG PERMIT SURCHARGE RETENTION-COT	-100.49
MN DEPT OF LABOR & INDUS	12478	02/24/2022	202201-CG	JAN BLDG PERMIT SURCHARGE-COTTAGE GROVE	5,024.37
				Vendor VEN13670 - MN DEPT OF LABOR & INDUSTRY Total:	**4,973.88**
Vendor: VEN13439 - MN POLLUTION CONTROL AGENCY					
MN POLLUTION CONTROL AG	215591	02/16/2022	20220216	2022 WASTEWATER & COLLECTIONS CONFERENCE REG	400.00
				Vendor VEN13439 - MN POLLUTION CONTROL AGENCY Total:	**400.00**
Vendor: VEN35748 - MONROE SPECIALTY COMPANY INC					
MONROE SPECIALTY COMPAN	215639	02/23/2022	77819	PET LICENSE TAGS	333.34
				Vendor VEN35748 - MONROE SPECIALTY COMPANY INC Total:	**333.34**
Vendor: VEN13463 - MTI DISTRIBUTING CO.					
MTI DISTRIBUTING CO.	12413	02/17/2022	1326314-01	WHEEL-RIVER OAKS	117.16
MTI DISTRIBUTING CO.	12479	02/24/2022	1333957-00	BEDKNIFE/WHEEL/PULLEY/SCREW/BELT/GASKET-RIVER OA	1,314.03
MTI DISTRIBUTING CO.	12479	02/24/2022	1333957-01	BATTERY TRAY/FILTERS-RIVER OAKS	94.92
MTI DISTRIBUTING CO.	12479	02/24/2022	1333957-02	HYD MOTOR ASM/BATTERY CABLE/ANGLES/BELT-RIVER OAKS	678.90
MTI DISTRIBUTING CO.	12479	02/24/2022	1333957-03	OIL FILTER-RIVER OAKS	31.91
MTI DISTRIBUTING CO.	12479	02/24/2022	1334152-00	BATTERY/FILTER/SCREW/PLATE/SPACER-RIVER OAKS	379.27
MTI DISTRIBUTING CO.	12479	02/24/2022	1334152-01	FUEL FILTER-RIVER OAKS	42.60
MTI DISTRIBUTING CO.	12479	02/24/2022	1334246-00	DRIVE ADAPTERS-RIVER OAKS	237.33
				Vendor VEN13463 - MTI DISTRIBUTING CO. Total:	**2,896.12**
Vendor: VEN35425 - OPENTABLE INC					
OPENTABLE INC	215640	02/23/2022	INV-FS859437-012022	JANUARY GUEST SEATING/RESERVATION SVCS	269.00
				Vendor VEN35425 - OPENTABLE INC Total:	**269.00**

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
Vendor: VEN15362 - OPUS21 MANAGEMENT SOLUTIONS					
OPUS21 MANAGEMENT SOLU	12414	02/17/2022	220114	UB CALL CENTER SUPPORT SERVICES JANUARY 2022	287.46
OPUS21 MANAGEMENT SOLU	12414	02/17/2022	220114	UB POSTAGE SERVICES JANUARY 2022	479.41
OPUS21 MANAGEMENT SOLU	12414	02/17/2022	220114	UB HOSTING SERVICES JANUARY 2022	896.00
OPUS21 MANAGEMENT SOLU	12414	02/17/2022	220114	UB BILL PRINT SERVICES JANUARY 2022	294.00
OPUS21 MANAGEMENT SOLU	12414	02/17/2022	220114	UB CALL CENTER SUPPORT SERVICES JANUARY 2022	1,145.00
OPUS21 MANAGEMENT SOLU	12414	02/17/2022	220114	UB POSTAGE SERVICES JANUARY 2022	1,915.00
OPUS21 MANAGEMENT SOLU	12414	02/17/2022	220114	UB HOSTING SERVICES JANUARY 2022	3,585.00
OPUS21 MANAGEMENT SOLU	12414	02/17/2022	220114	UB BILL PRINT SERVICES JANUARY 2022	1,179.00
OPUS21 MANAGEMENT SOLU	12414	02/17/2022	220114	UB CALL CENTER SUPPORT SERVICES JANUARY 2022	1,145.00
OPUS21 MANAGEMENT SOLU	12414	02/17/2022	220114	UB POSTAGE SERVICES JANUARY 2022	1,915.00
OPUS21 MANAGEMENT SOLU	12414	02/17/2022	220114	UB HOSTING SERVICES JANUARY 2022	3,585.00
OPUS21 MANAGEMENT SOLU	12414	02/17/2022	220114	UB BILL PRINT SERVICES JANUARY 2022	1,179.00
OPUS21 MANAGEMENT SOLU	12414	02/17/2022	220114	UB CALL CENTER SUPPORT SERVICES JANUARY 2022	286.00
OPUS21 MANAGEMENT SOLU	12414	02/17/2022	220114	UB POSTAGE SERVICES JANUARY 2022	479.00
OPUS21 MANAGEMENT SOLU	12414	02/17/2022	220114	UB HOSTING SERVICES JANUARY 2022	897.10
OPUS21 MANAGEMENT SOLU	12414	02/17/2022	220114	UB BILL PRINT SERVICES JANUARY 2022	295.00
				Vendor VEN15362 - OPUS21 MANAGEMENT SOLUTIONS Total:	**19,561.97**
Vendor: VEN30439 - O'REILLY AUTO PARTS					
O'REILLY AUTO PARTS	215592	02/16/2022	3266-419277	SOLDER - SS100	4.99
O'REILLY AUTO PARTS	215592	02/16/2022	3266-419288	OIL FILTERS - STOCK ITEM	9.40
O'REILLY AUTO PARTS	215592	02/16/2022	3266-419291	COOL TEMP SENSOR - 1302/33827	12.10
O'REILLY AUTO PARTS	215592	02/16/2022	3266-419442	OIL FILTERS - STOCK ITEM	27.00
O'REILLY AUTO PARTS	215592	02/16/2022	3266-419493	OIL FILTERS - STOCK ITEM	14.00
O'REILLY AUTO PARTS	215592	02/16/2022	3266-419617	BELTS - 1402/33860	47.87
O'REILLY AUTO PARTS	215592	02/16/2022	3266-419788	MOBIL SYN 5W30 OIL - STOCK ITEM	179.82
O'REILLY AUTO PARTS	215592	02/16/2022	3266-420089	OIL FILTERS, MOBIL SYN 5W30 OIL - STOCK ITEM	129.28
O'REILLY AUTO PARTS	215592	02/16/2022	3266-420110	LICENSE PLATE LENS - 1202/33891	14.70
O'REILLY AUTO PARTS	215592	02/16/2022	3266-420177	BATTERY - 1503/33884	21.52
O'REILLY AUTO PARTS	215592	02/16/2022	3266-420397	OIL FILTERS - STOCK ITEM	27.20
O'REILLY AUTO PARTS	215592	02/16/2022	3266-420415	OIL FLTR, AIR FLTR, FUEL FLTR - 8302/33908	44.34
O'REILLY AUTO PARTS	215592	02/16/2022	3266-420416	OIL FLTR, AIR FLTR, FUEL/WTR SEP - 8301/33907	54.87
O'REILLY AUTO PARTS	215641	02/23/2022	3266-420935	MOBIL 0W20 SYN OIL - 1940/33928	62.97
O'REILLY AUTO PARTS	215641	02/23/2022	3266-420947	OIL FILTERS - STOCK ITEM	31.70
O'REILLY AUTO PARTS	215641	02/23/2022	3266-421021	MUFFLER - 5007/33919	46.02
				Vendor VEN30439 - O'REILLY AUTO PARTS Total:	**727.78**

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
Vendor: VEN32617 - OXYGEN FORENSICS, INC					
OXYGEN FORENSICS, INC	215642	02/23/2022	89872-1	OXYGEN FORENSICS DETECTIVE RENEWAL 3/15/22	2,899.00
				Vendor VEN32617 - OXYGEN FORENSICS, INC Total:	**2,899.00**
Vendor: VEN31236 - OXYGEN SERVICE COMPANY, INC					
OXYGEN SERVICE COMPANY, I	215594	02/16/2022	3514161	SMALL & MED CYLINDER RENTAL	70.70
				Vendor VEN31236 - OXYGEN SERVICE COMPANY, INC Total:	**70.70**
Vendor: VEN16140 - PARK GROVE ELECTRIC INC					
PARK GROVE ELECTRIC INC	215643	02/23/2022	53993	INSTALL GFI OUTLET-WOODRIDGE PARK	416.00
				Vendor VEN16140 - PARK GROVE ELECTRIC INC Total:	**416.00**
Vendor: VEN35191 - PB PARENT HOLDCO, LP					
PB PARENT HOLDCO, LP	215595	02/16/2022	IV00195908	NEW FIRE EXTINGUISHERS (8) - STREETS & PARKS	360.75
PB PARENT HOLDCO, LP	215595	02/16/2022	IV00195908	NEW FIRE EXTINGUISHERS (8) - STREETS & PARKS	360.75
PB PARENT HOLDCO, LP	215595	02/16/2022	IV00196031	FIRE EXTINGUISHERS (2) - CITY HALL	677.46
				Vendor VEN35191 - PB PARENT HOLDCO, LP Total:	**1,398.96**
Vendor: VEN35260 - PERFECTION PLUS INC					
PERFECTION PLUS INC	215644	02/23/2022	114114	FEBRUARY CLEANING SERVICES - PSCH	4,120.00
PERFECTION PLUS INC	215644	02/23/2022	114114	FEBRUARY CLEANING SERVICES - FIRE #3	147.00
PERFECTION PLUS INC	215644	02/23/2022	114114	FEBRUARY CLEANING SERVICES - FIRE #4	147.00
PERFECTION PLUS INC	215644	02/23/2022	114114	FEBRUARY CLEANING SERVICES - CENTRAL FIRE	595.00
PERFECTION PLUS INC	215644	02/23/2022	114114	FEBRUARY CLEANING SERVICES - PW	820.00
PERFECTION PLUS INC	215644	02/23/2022	114114	FEBRUARY CLEANING SERVICES - HERO CENTER	1,675.00
				Vendor VEN35260 - PERFECTION PLUS INC Total:	**7,504.00**
Vendor: VEN16176 - PERFORM ART					
PERFORM ART	215645	02/23/2022	1216	ZAMBONI VINYL WRAP-SUMMIT ORTHO	3,462.82
				Vendor VEN16176 - PERFORM ART Total:	**3,462.82**
Vendor: VEN16192 - PLUNKETT'S PEST CONTROL, INC					
PLUNKETT'S PEST CONTROL, I	12480	02/24/2022	7396001	JANUARY PEST CONTROL - RIVER OAKS	119.65
				Vendor VEN16192 - PLUNKETT'S PEST CONTROL, INC Total:	**119.65**
Vendor: VEN16623 - POLLARDWATER					
POLLARDWATER	215646	02/23/2022	207225	MANHOLE COVER	2,270.70
				Vendor VEN16623 - POLLARDWATER Total:	**2,270.70**
Vendor: VEN16193 - PRESTIGE FLAG					
PRESTIGE FLAG	215647	02/23/2022	702732	PLAIN GOLF FLAG	277.96
				Vendor VEN16193 - PRESTIGE FLAG Total:	**277.96**
Vendor: VEN16138 - PUBLIC EMPLOYEES RETIREMENT ASSOCIATION					
PUBLIC EMPLOYEES RETIREM	12500	02/24/2022	INV024891	2/24/22 BIWEEKLY PAYROLL 1/31/22-2/13/22	46,010.58
PUBLIC EMPLOYEES RETIREM	12500	02/24/2022	INV024892	2/24/22 BIWEEKLY PAYROLL 1/31/22-2/13/22	66,978.21
				Vendor VEN16138 - PUBLIC EMPLOYEES RETIREMENT ASSOCIATION Total:	**112,988.79**
Vendor: VEN35706 - PURE TAP INC					
PURE TAP INC	215648	02/23/2022	PT-24382	DRAUGHT LINE CLEANING	105.00
				Vendor VEN35706 - PURE TAP INC Total:	**105.00**
Vendor: VEN18051 - R & R SPECIALTIES OF WISCONSIN, INC					
R & R SPECIALTIES OF WISCO	12481	02/24/2022	74955-IN	BLADE SHARPENING	105.00

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
R & R SPECIALTIES OF WISCO	12481	02/24/2022	74976-IN	BLADE SHARPENING/GRINDING-RESURFACER BLADE	82.40
				Vendor VEN18051 - R & R SPECIALTIES OF WISCONSIN, INC Total:	**187.40**
Vendor: VEN32756 - RAMSEY/WASHINGTON RECYCLING & ENERGY					
RAMSEY/WASHINGTON RECY	215649	02/23/2022	RESFA-005273	TRASH DISPOSAL - JANUARY	19.34
				Vendor VEN32756 - RAMSEY/WASHINGTON RECYCLING & ENERGY Total:	**19.34**
Vendor: VEN18058 - REGIONS HOSPITAL					
REGIONS HOSPITAL	215650	02/23/2022	H832880	2022 MEDICAL DIRECTION FE	10,795.00
				Vendor VEN18058 - REGIONS HOSPITAL Total:	**10,795.00**
Vendor: VEN18169 - REINDERS, INC.					
REINDERS, INC.	12482	02/24/2022	3085551-00	NOZZLE-PARKS	75.00
REINDERS, INC.	12482	02/24/2022	3217545-00	HOSE-PARKS	195.63
				Vendor VEN18169 - REINDERS, INC. Total:	**270.63**
Vendor: VEN18026 - REINHART FOODSERVICE					
REINHART FOODSERVICE	12416	02/17/2022	903330	CUPS FOR CITY HALL	31.36
REINHART FOODSERVICE	12416	02/17/2022	903330	FOOD FOR CLUBHOUSE	872.03
				Vendor VEN18026 - REINHART FOODSERVICE Total:	**903.39**
Vendor: VEN30368 - RIVER STATES TRUCK AND TRAILER, INC					
RIVER STATES TRUCK AND TRA	12483	02/24/2022	921665	SENSOR - 4004/33846	34.16
RIVER STATES TRUCK AND TRA	12483	02/24/2022	921675	GASKET & SEAL - 4004/33846	40.47
				Vendor VEN30368 - RIVER STATES TRUCK AND TRAILER, INC Total:	**74.63**
Vendor: VEN30854 - ROHN INDUSTRIES, INC					
ROHN INDUSTRIES, INC	12484	02/24/2022	567648	DOCUMENT SHREDDING	33.60
ROHN INDUSTRIES, INC	12484	02/24/2022	567648	DOCUMENT SHREDDING	21.00
				Vendor VEN30854 - ROHN INDUSTRIES, INC Total:	**54.60**
Vendor: VEN18084 - RYAN CONTRACTING CO					
RYAN CONTRACTING CO	12485	02/24/2022	20220120	PYMT 8/FINAL-80TH ST S IMPROVEMENTS THRU 1/20/22	11,404.42
RYAN CONTRACTING CO	12485	02/24/2022	20220120	PYMT 8/FINAL-80TH ST S IMPROVEMENTS THRU 1/20/22	35,156.35
				Vendor VEN18084 - RYAN CONTRACTING CO Total:	**46,560.77**
Vendor: VEN19289 - SAFETY-KLEEN SYSTEMS INC					
SAFETY-KLEEN SYSTEMS INC	215596	02/16/2022	87834354	30 GAL PARTS WASHER FLUID	240.90
				Vendor VEN19289 - SAFETY-KLEEN SYSTEMS INC Total:	**240.90**
Vendor: VEN29489 - SCHILLING SUPPLY COMPANY					
SCHILLING SUPPLY COMPANY	12486	02/24/2022	859918-00	MULTIFOLD TOWEL/CANLINERS-HERO CENTER	206.42
SCHILLING SUPPLY COMPANY	12417	02/17/2022	859996-00	U SCREEN/ROLL TOWEL-CENTRAL FIRE	102.48
				Vendor VEN29489 - SCHILLING SUPPLY COMPANY Total:	**308.90**
Vendor: VEN35163 - SERVING THE AMERICAN RINKS					
SERVING THE AMERICAN RIN	215597	02/16/2022	891	ICE ARENA MEMBERSHIP 3/1/22-2/28/23	275.00
				Vendor VEN35163 - SERVING THE AMERICAN RINKS Total:	**275.00**
Vendor: VEN30618 - SOUTH ST PAUL STEEL SUPPLY CO, INC					
SOUTH ST PAUL STEEL SUPPLY	12418	02/17/2022	1164980	METAL FOR SHELVING AT HERO CENTER	380.88
				Vendor VEN30618 - SOUTH ST PAUL STEEL SUPPLY CO, INC Total:	**380.88**
Vendor: VEN35763 - SPENCER BALAUN					
SPENCER BALAUN	215598	02/16/2022	20220216	REFUND UB ACCT# 800046568 - 8417 HARKNESS	44.77
				Vendor VEN35763 - SPENCER BALAUN Total:	**44.77**

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
Vendor: VEN19229 - ST CROIX RECREATION FUN PLAYGROUNDS, INC					
ST CROIX RECREATION FUN PL	215599	02/16/2022	21130	HIDDEN VALLEY PLAYGROUND - PLAY STRUCTURE	34,811.00
			Vendor VEN19229 - ST CROIX RECREATION FUN PLAYGROUNDS, INC Total:		**34,811.00**
Vendor: VEN16141 - ST PAUL PIONEER PRESS					
ST PAUL PIONEER PRESS	215600	02/16/2022	122569758	JAN ADS-WOODWARD PONDS D&U VACATION	36.66
ST PAUL PIONEER PRESS	215600	02/16/2022	122569758	JAN ADS-VAN METER	25.38
ST PAUL PIONEER PRESS	215600	02/16/2022	122569758	JAN ADS-MINNESOTA PIPELINE CO	23.50
ST PAUL PIONEER PRESS	215600	02/16/2022	122569758	JAN ADS-WOODWARD PONDS 3RD	25.38
ST PAUL PIONEER PRESS	215600	02/16/2022	122569758	JAN ADS-WOODWARD PONDS D&U VACATION	36.66
ST PAUL PIONEER PRESS	215600	02/16/2022	122569758	JAN ADS-MCHATTIE LANDING	27.73
ST PAUL PIONEER PRESS	215600	02/16/2022	122569758	JAN ADS-EDA PUBLIC HEARIN	34.78
ST PAUL PIONEER PRESS	215600	02/16/2022	122569758	JAN ADS-EDA PUBLIC HEARIN	32.90
ST PAUL PIONEER PRESS	215600	02/16/2022	122569758	JAN ADS-EDA PUBLIC HEARIN	31.96
			Vendor VEN16141 - ST PAUL PIONEER PRESS Total:		**274.95**
Vendor: VEN29560 - STANDARD INSURANCE COMPANY					
STANDARD INSURANCE COMP	215651	02/23/2022	20220223	COBRA LIFE&LTD INS PREMIUM-MARCH 2022	268.11
STANDARD INSURANCE COMP	215651	02/23/2022	20220223	EMPLOYER BASIC LIFE INS PREMIUM-MARCH 2022	1,071.20
STANDARD INSURANCE COMP	215651	02/23/2022	20220223	EMPLOYEE LIFE INS PREMIUM -MARCH 2022	2,664.96
STANDARD INSURANCE COMP	215651	02/23/2022	20220223	EMPLOYEE LTD INS PREMIUM -MARCH 2022	2,778.76
			Vendor VEN29560 - STANDARD INSURANCE COMPANY Total:		**6,783.03**
Vendor: VEN35725 - START INC					
START INC	215652	02/23/2022	1357	DIAMOND CLEAT MAT 4X8	8,360.52
			Vendor VEN35725 - START INC Total:		**8,360.52**
Vendor: VEN33489 - STEVEN MICHAEL WICKELGREN					
STEVEN MICHAEL WICKELGRE	12419	02/17/2022	1009	COUNSELING SERVICES - JANUARY	1,195.00
			Vendor VEN33489 - STEVEN MICHAEL WICKELGREN Total:		**1,195.00**
Vendor: VEN19352 - SYSCO MINNESOTA INC.					
SYSCO MINNESOTA INC.	12420	02/17/2022	347863015	FOOD/SUPPLIES FOR ICE ARENA	740.44
			Vendor VEN19352 - SYSCO MINNESOTA INC. Total:		**740.44**
Vendor: VEN20005 - TELEMETRY AND PROCESS CONTROLS INC					
TELEMETRY AND PROCESS CO	12487	02/24/2022	113939	WIN-911 CUSTOMER CARE SUBSCRIPTION	849.00
TELEMETRY AND PROCESS CO	12487	02/24/2022	113980	SCADA SYSTEM - JANUARY SERVICE	1,612.50
TELEMETRY AND PROCESS CO	12487	02/24/2022	113984	PILL HILL & HIGHLAND TANK PLC UPDATE	5,144.38
			Vendor VEN20005 - TELEMETRY AND PROCESS CONTROLS INC Total:		**7,605.88**
Vendor: VEN20038 - TENNIS SANITATION LLC					
TENNIS SANITATION LLC	215653	02/23/2022	3159574	JANUARY TRASH SERVICE - FIRE #2	14.25
TENNIS SANITATION LLC	215653	02/23/2022	3159575	JANUARY TRASH SERVICE - PW GARAGE	96.04
TENNIS SANITATION LLC	215653	02/23/2022	3159577	JANUARY TRASH SERVICE - PARKS	195.21
TENNIS SANITATION LLC	215653	02/23/2022	3159578	JANUARY TRASH SERVICE - FIRE #4	28.57
TENNIS SANITATION LLC	215653	02/23/2022	3159579	JANUARY TRASH SERVICE - FIRE #3	19.95
TENNIS SANITATION LLC	215653	02/23/2022	3159581	JANUARY TRASH SERVICE - OI	79.97

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
TENNIS SANITATION LLC	215653	02/23/2022	3159582	JANUARY TRASH SERVICE - CITY HALL	52.45
				Vendor VEN20038 - TENNIS SANITATION LLC Total:	**486.44**
Vendor: VEN32056 - THE COTTAGE GROVE PROFESSIONAL FIREFIGHTERS					
THE COTTAGE GROVE PROFES	12501	02/24/2022	INV024887	2/24/22 BIWEEKLY PAYROLL 1/31/22-2/13/22	600.00
				Vendor VEN32056 - THE COTTAGE GROVE PROFESSIONAL FIREFIGHTERS Total:	**600.00**
Vendor: VEN30281 - THOMSON REUTERS					
THOMSON REUTERS	215654	02/23/2022	845806721	JANUARY INFORMATION CHARGES	184.35
				Vendor VEN30281 - THOMSON REUTERS Total:	**184.35**
Vendor: VEN35705 - TRAVIS MARK SCHUETTE					
TRAVIS MARK SCHUETTE	215601	02/16/2022	18429	1/4 HIGH SPEED RATCHET	780.00
TRAVIS MARK SCHUETTE	215601	02/16/2022	18429	3/8 RATCHET-BARE	796.00
TRAVIS MARK SCHUETTE	215601	02/16/2022	18429	1/2 HAMMER DRILL-BARE	824.00
TRAVIS MARK SCHUETTE	215601	02/16/2022	18429	2-SPEED GREASE GUN	956.00
TRAVIS MARK SCHUETTE	215601	02/16/2022	18429	RED COVER MIL 2767	60.00
TRAVIS MARK SCHUETTE	215601	02/16/2022	18429	1/2 MAX QUIET IMPACT TOOL	420.00
TRAVIS MARK SCHUETTE	215601	02/16/2022	18429	R.A. DIE GRINDERQ	800.00
TRAVIS MARK SCHUETTE	215601	02/16/2022	18429	3/8 LONG RATCHET	1,008.00
TRAVIS MARK SCHUETTE	215601	02/16/2022	18429	M12 COMPACT DRIVER DRILL	480.00
TRAVIS MARK SCHUETTE	215601	02/16/2022	18429	GRINDER	1,100.00
TRAVIS MARK SCHUETTE	215601	02/16/2022	18429	3/8 STUBBY IMPACT KIT	1,280.00
TRAVIS MARK SCHUETTE	215601	02/16/2022	18429	1/2 IMPACT KIT	2,280.00
				Vendor VEN35705 - TRAVIS MARK SCHUETTE Total:	**10,784.00**
Vendor: VEN20095 - TRI-STATE BOBCAT, INC.					
TRI-STATE BOBCAT, INC.	12488	02/24/2022	T17916	OIL & FUEL FLTRS,OIL,TRACKS, BOLTS - 8206/33825	4,060.24
TRI-STATE BOBCAT, INC.	12488	02/24/2022	N14356	T76 BOBCAT LOADER RENTAL CONTRACT 1/30/22 -2/27/22	695.00
TRI-STATE BOBCAT, INC.	12488	02/24/2022	N14357	S76 BOBCAT LOADER RENTAL CONTRACT 1/30/22-2/27/22	525.00
				Vendor VEN20095 - TRI-STATE BOBCAT, INC. Total:	**5,280.24**
Vendor: VEN20050 - TWIN CITY HARDWARE					
TWIN CITY HARDWARE	215603	02/16/2022	PSI2088042	CLOSER-PUBLIC WORKS	122.20
TWIN CITY HARDWARE	215603	02/16/2022	PSI2096064	WELL 10 - LOCK/LABOR KEY	211.25
				Vendor VEN20050 - TWIN CITY HARDWARE Total:	**333.45**
Vendor: VEN34317 - TYLER HIVELEY					
TYLER HIVELEY	215655	02/23/2022	20220223	MEAL REIMBURSEMENTS FOR 49ER TRAINING 10/4-10/7/21	160.41
				Vendor VEN34317 - TYLER HIVELEY Total:	**160.41**
Vendor: VEN21000 - ULINE					
ULINE	12489	02/24/2022	144206762	FIRE EXTINGUISHER BRACKET	97.42
				Vendor VEN21000 - ULINE Total:	**97.42**
Vendor: VEN21625 - UNITED PARCEL SERVICE					
UNITED PARCEL SERVICE	12421	02/17/2022	YY890062	SHIPMENT TO GOLF MANOR PD CINCINNATI OH	41.65
				Vendor VEN21625 - UNITED PARCEL SERVICE Total:	**41.65**
Vendor: VEN35435 - US FOODS, INC					
US FOODS, INC	12490	02/24/2022	4806281	FOOD/SUPPLIES FOR CLUBHOUSE	21.47
US FOODS, INC	12490	02/24/2022	4806281	FOOD/SUPPLIES FOR CLUBHOUSE	1,408.64
US FOODS, INC	12490	02/24/2022	4870527	FOOD FOR CLUBHOUSE	87.17
				Vendor VEN35435 - US FOODS, INC Total:	**1,517.28**
Vendor: VEN22333 - VALLEY SALES OF HASTINGS, INC.					
VALLEY SALES OF HASTINGS, I	215656	02/23/2022	60584	ARM KIT - 1508/33885	175.41
				Vendor VEN22333 - VALLEY SALES OF HASTINGS, INC. Total:	**175.41**

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
Vendor: VEN35692 - VAN METER INC					
VAN METER INC	215657	02/23/2022	S011927786.001	LIGHTS-CITY HALL	220.38
VAN METER INC	215657	02/23/2022	S011912580.001	HACKZALL SAW/SCREWDRIVER-STREETLI	197.62
				Vendor VEN35692 - VAN METER INC Total:	**418.00**
Vendor: VEN22353 - VERIZON WIRELESS					
VERIZON WIRELESS	12422	02/17/2022	9898344556	ADMIN DATA CARDS 12/29/21 -1/28/22	35.01
VERIZON WIRELESS	12422	02/17/2022	9898344556	BUILDING DATA CARDS 12/29/21-1/28/22	280.07
VERIZON WIRELESS	12422	02/17/2022	9898344556	POLICE DATA CARDS 12/29/21 -1/28/22	1,081.57
VERIZON WIRELESS	12422	02/17/2022	9898344556	FIRE DATA CARDS 12/29/21-1/28/22	160.04
VERIZON WIRELESS	12422	02/17/2022	9898344556	STREETS DATA CARDS 12/29/21-1/28/22	525.44
VERIZON WIRELESS	12422	02/17/2022	9898344556	PW ADMIN DATA CARDS 12/29/21-1/28/22	35.01
VERIZON WIRELESS	12422	02/17/2022	9898344556	FORESTRY DATA CARDS 12/29/21-1/28/22	35.01
VERIZON WIRELESS	12422	02/17/2022	9898344556	PARKS DATA CARDS 12/29/21-1/28/22	576.24
VERIZON WIRELESS	12422	02/17/2022	9898344556	STORMWATER DATA CARDS 12/29/21-1/28/22	40.01
VERIZON WIRELESS	12422	02/17/2022	9898344556	CLUBHOUSE DATA CARDS 12/29/21-1/28/22	40.01
VERIZON WIRELESS	12422	02/17/2022	9898344556	WATER DATA CARDS 12/29/21 -1/28/22	450.75
VERIZON WIRELESS	12422	02/17/2022	9898344556	SEWER DATA CARDS 12/29/21 -1/28/22	55.62
VERIZON WIRELESS	12422	02/17/2022	9898344556	FIRE/EMS DATA CARDS 12/29/21-1/28/22	220.08
VERIZON WIRELESS	12422	02/17/2022	9898344556	FLEET DATA CARDS 12/29/21-1/28/22	10.30
VERIZON WIRELESS	12422	02/17/2022	9898344556	FACILITIES DATA CARDS 12/29/21-1/28/22	45.31
VERIZON WIRELESS	12422	02/17/2022	9898344556	IT DATA CARDS 12/29/21-1/28/22	120.03
VERIZON WIRELESS	12424	02/17/2022	9898811172	EMERGENCY PREP PHONES 1/5/22-2/4/22	64.02
				Vendor VEN22353 - VERIZON WIRELESS Total:	**3,774.52**
Vendor: VEN35442 - W.L. HALL COMPANY					
W.L. HALL COMPANY	12491	02/24/2022	9792	13 PANEL SYSTEM TRACK LEFT SIDE POCKET-RIVER OAKS	387.50
				Vendor VEN35442 - W.L. HALL COMPANY Total:	**387.50**
Vendor: VEN23139 - WASHINGTON COUNTY PUBLIC HEALTH & ENVIRONMENT DEPT					
WASHINGTON COUNTY PUBLI	12494	02/24/2022	202201	JANUARY ENVIRONMENTAL CHARGE	6.77
				Vendor VEN23139 - WASHINGTON COUNTY PUBLIC HEALTH & ENVIRONMENT DEPT Total:	**6.77**
Vendor: VEN23148 - WASHINGTON COUNTY					
WASHINGTON COUNTY	12492	02/24/2022	198042	2022 ELECTION MAINT	10,110.00
WASHINGTON COUNTY	12492	02/24/2022	198664	2021 TAX LEVY BOOK/ADJUSTMENT REPORT	70.00
				Vendor VEN23148 - WASHINGTON COUNTY Total:	**10,180.00**
Vendor: VEN23157 - WASHINGTON COUNTY					
WASHINGTON COUNTY	12493	02/24/2022	20220201	DOCUMENT RECORDING	132.00
				Vendor VEN23157 - WASHINGTON COUNTY Total:	**132.00**
Vendor: VEN34963 - WASTE MANAGEMENT OF MINNESOTA INC					
WASTE MANAGEMENT OF MI	215604	02/16/2022	8661634-2282-1	COMPOST DUMPSTER SVC 2/1/22-2/28/22	412.63
				Vendor VEN34963 - WASTE MANAGEMENT OF MINNESOTA INC Total:	**412.63**

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
Vendor: VEN29141 - WATSON COMPANY INC.					
WATSON COMPANY INC.	12425	02/17/2022	122739	SNACKS FOR ICE ARENA	42.02
WATSON COMPANY INC.	12425	02/17/2022	122886	SNACKS FOR ICE ARENA	103.16
WATSON COMPANY INC.	12425	02/17/2022	122886	SNACKS FOR ICE ARENA	2,262.91
WATSON COMPANY INC.	12495	02/24/2022	123056	SNACKS FOR ICE ARENA	1,581.60
				Vendor VEN29141 - WATSON COMPANY INC. Total:	**3,989.69**
Vendor: VEN23122 - WEATHER WATCH INC					
WEATHER WATCH INC	12496	02/24/2022	11860	WEATHER SERVICE - FEBRUARY 2022	220.00
				Vendor VEN23122 - WEATHER WATCH INC Total:	**220.00**
Vendor: VEN35666 - WEX INC					
WEX INC	215658	02/23/2022	78288516	FUEL PURCHASES 1/7/22-2/6/22	138.10
				Vendor VEN35666 - WEX INC Total:	**138.10**
Vendor: VEN31705 - WISCONSIN SCTF					
WISCONSIN SCTF	215665	02/23/2022	INV024890	2/24/22 BIWEEKLY PAYROLL 1/31/22-2/13/22	669.22
				Vendor VEN31705 - WISCONSIN SCTF Total:	**669.22**
Vendor: VEN30736 - WOLD ARCHITECTS AND ENGINEERS, INC					
WOLD ARCHITECTS AND ENGI	215659	02/23/2022	77255	GLACIER VALLEY PARK CONCEPT PLAN THRU 90% OF STUDY	7,234.17
				Vendor VEN30736 - WOLD ARCHITECTS AND ENGINEERS, INC Total:	**7,234.17**
Vendor: VEN24065 - XCEL ENERGY					
XCEL ENERGY	215605	02/16/2022	766383106	XCEL STREET LIGHTS 1/3/22-2/2/22	7,394.80
XCEL ENERGY	215605	02/16/2022	766669072	7751 70TH ST S FEEDPOINT 1/5/22-2/3/22	98.42
XCEL ENERGY	215605	02/16/2022	766681372	PSCH ELECTRICITY & GAS 1/6/22-2/6/22	13,913.07
XCEL ENERGY	215660	02/23/2022	766682366	RAVINE PKWY LIGHTS 1/6/22-2/6/22	212.57
XCEL ENERGY	215660	02/23/2022	766825335	6044 IDEN AVE S FEEDPOINT 1/6/22-2/6/22	23.65
XCEL ENERGY	215660	02/23/2022	766828819	6459 JENSEN AVE S FEEDPOINT 1/6/22-2/6/22	68.90
XCEL ENERGY	215660	02/23/2022	766842732	8503A JENSEN AVE S FEEDPOINT 1/6/22-2/6/22	127.00
XCEL ENERGY	215660	02/23/2022	766847694	6384 HIGHLAND HILLS CURVE FEEDPOINT 1/6/22-2/6/22	9.92
XCEL ENERGY	215660	02/23/2022	766856170	7863 JEFFERY AVE S FEEDPOINT 1/6/22-2/6/22	12.16
XCEL ENERGY	215660	02/23/2022	766880483	HERO CENTER GAS 1/6/22-2/6/22	7,300.36
XCEL ENERGY	215660	02/23/2022	766970684	TRAFFIC SIGNALS 1/6/22-2/6/22	924.75
XCEL ENERGY	215660	02/23/2022	767049161	80TH/JAMAICA LIGHTS 1/6/22-2/6/22	1,373.88
XCEL ENERGY	215660	02/23/2022	767514889	LIFT STATION 1/11/22-2/9/22	191.34
XCEL ENERGY	215660	02/23/2022	767585611	8031 80TH ST S FEEDPOINT 1/12/22-2/10/22	179.44
XCEL ENERGY	215660	02/23/2022	767589629	8311 60TH ST S UNIT ST LIGHTS 1/12/22-2/10/22	84.16
XCEL ENERGY	215660	02/23/2022	767595074	EASTBROOK HOA 1/12/22-2/10/22	13.33
XCEL ENERGY	215660	02/23/2022	767598998	9200 GRANADA AVE S FEEDPOINT 1/12/22-2/10/22	42.04
XCEL ENERGY	215660	02/23/2022	767601756	8193 GRANGE BLVD UNIT SIREN 1/12/22-2/10/22	18.50
XCEL ENERGY	215660	02/23/2022	767606379	6424 HARKNESS AVE S FEEDPOINT 1/12/22-2/10/22	52.12

Vendor Name	Payment Number	Payment Date	Payable Number	Description (Item)	Amount
XCEL ENERGY	215660	02/23/2022	767608893	7064 W PT DOUGLAS RD S FEEDPOINT 1/12/22-2/10/22	43.24
XCEL ENERGY	215660	02/23/2022	767611227	HERO CENTER ELEC 1/12/22-2/10/22	6,738.66
XCEL ENERGY	215660	02/23/2022	767611681	8500 95TH ST S UNIT TRAFFIC SIGNAL 1/12/22-2/10/22	77.71
XCEL ENERGY	215660	02/23/2022	767613988	SEWER LIFT STATION 1/12/22-2/10/22	37.42
XCEL ENERGY	215660	02/23/2022	767615441	SETTLERS BLUFF LS/10294A GREYSTONE 1/14/22-2/10/22	44.06
XCEL ENERGY	215660	02/23/2022	767624146	9750 65TH ST S FEEDPOINT 1/12/22-2/10/22	75.20
XCEL ENERGY	215660	02/23/2022	767631416	SOUTHPOINT 1/12/22-2/10/2	158.31
XCEL ENERGY	215660	02/23/2022	767634679	BOOSTER BYPASS 1/12/22-2/10/22	21.79
XCEL ENERGY	215660	02/23/2022	767645322	6490 IDSEN AVE S FEEDPOINT 1/12/22-2/10/22	126.17
XCEL ENERGY	215660	02/23/2022	767649021	6527 GENEVIEVE TRL FEEDPOINT 1/12/22-2/10/22	27.86
XCEL ENERGY	215660	02/23/2022	767904531	PRO SHOP 1/12/22-2/10/22	394.92
XCEL ENERGY	215660	02/23/2022	767904531	MAINT BLDG 1/12/22-2/10/2	181.20
XCEL ENERGY	215660	02/23/2022	767904531	PUMPHOUSE 1/12/22-2/10/2	128.60
XCEL ENERGY	215660	02/23/2022	767904531	CLUBHOUSE 1/12/22-2/10/22	1,384.19
XCEL ENERGY	215660	02/23/2022	767916004	WATER 1/11/22-2/9/22	25,929.58
				Vendor VEN24065 - XCEL ENERGY Total:	**67,409.32**
Vendor: VEN26201 - ZIEGLER INC.					
ZIEGLER INC.	12426	02/17/2022	IN000408158	BATTERY,FLTR,BOLTS,CABLES - 8204/33849	928.32
				Vendor VEN26201 - ZIEGLER INC. Total:	**928.32**
				Grand Total:	**1,713,888.20**

Report Summary

Fund Summary

Fund	Payment Amount
100 - GENERAL FUND	253,519.80
215 - RECYCLING	412.63
230 - SURFACE WATER MANAGEMENT	10,357.40
240 - FORFEITURE & SEIZURE	475.00
250 - ICE ARENA	14,699.66
255 - GOLF COURSE SPECIAL REVENUE FUND	16,652.60
285 - ECONOMIC DEVELOPMENT AUTHORITY	2,978.84
290 - HERO CENTER OPERATIONS	17,843.53
455 - 3M SETTLEMENT - MPCA	5,438.00
510 - FUTURE PROJECTS	83,737.13
515 - PARK CAPITAL IMPROVEMENT FUND	34,859.00
520 - MSA CONSTRUCTION	47,471.27
525 - MUNICIPAL BUILDING	576.00
535 - TIF 1-20 NORTHPOINT	3,303.00
568 - DEVELOPER PETITIONED PROJECTS	73.00
570 - PARK TRUST	7,234.17
575 - WATER CONNECT/AREA	144,720.51
580 - SEWER CONNECTION/AREA	232,997.41
610 - WATER OPERATING	82,897.40
620 - SEWER OPERATING	273,354.01
630 - STREET LIGHTS	31,849.01
660 - SOUTH WASHINTON COUNTY AMBUL	14,565.24
700 - SELF INSURANCE	15,018.45
710 - FLEET MAINTENANCE	50,850.97
720 - INFORMATION TECHNOLOGY	89,450.74
810 - DEVELOPER LETTER OF CREDIT	7,994.00
990 - PAYROLL FUND	270,559.43
Grand Total:	**1,713,888.20**

Account Summary

Account Number	Account Name	Payment Amount
100-00-9100-2034	COBRA INSURANCE	4,638.07
100-02-0110-4210	OP SUPPLY-OTHER	37.36
100-02-0110-4310	COMMUNICATION	35.01
100-03-0150-4302	LEGAL SERVICE	20,416.00
100-04-0200-4300	PROF SERVICES	118.08
100-04-0200-4302	LEGAL SERVICE	4,800.00
100-04-0210-4370	MAINT-REPAIR/EQ	10,110.00
100-05-0300-4300	PROF SERVICES	4,420.00
100-08-0395-4340	PRINTING	4,725.62
100-09-2500-4200	OFFICE SUPPLIES	288.45
100-09-2500-4270	OP SUP-VEH/EQ	669.38
100-09-2500-4272	OP SUP-BUILDINGS	220.38
100-09-2500-4305	FEES FOR SERVICE	761.06
100-09-2500-4360	UTILITIES	13,913.07
100-09-2500-4370	MAINT-REPAIR/EQ	522.95
100-09-2500-4372	MAINT-REPAIR/BLD	5,413.34
100-09-2500-4405	CLEAN/WASTE REMV	4,172.45
100-10-1100-4300	PROF SERVICES	80.30
100-10-1100-4305	FEES FOR SERVICE	132.00
100-10-1100-4341	ADVER/PUBLISH	175.31
100-13-1000-2041	SURCHARGE PAYABL	4,923.88
100-13-1000-3140	BUILDING PERMIT	175.00
100-13-1000-4300	PROF SERVICES	21,186.74
100-13-1000-4310	COMMUNICATION	280.07
100-13-1030-4300	PROF SERVICES	410.28
100-15-0400-4310	COMMUNICATION	64.02

Account Summary

Account Number	Account Name	Payment Amount
100-15-0400-4360	UTILITIES	18.50
100-21-0500-4200	OFFICE SUPPLIES	500.92
100-21-0500-4210	OP SUPPLY-OTHER	203.82
100-21-0500-4217	CLOTHING/UNIFORM	9,086.53
100-21-0500-4300	PROF SERVICES	1,200.00
100-21-0500-4305	FEES FOR SERVICE	487.27
100-21-0500-4310	COMMUNICATION	1,081.57
100-21-0500-4311	POSTAGE	41.65
100-21-0500-4370	MAINT-REPAIR/EQ	282.75
100-21-0500-4380	RENTAL/LEASE	90.00
100-21-0500-4403	TRAVEL/TRAIN/CON	1,800.00
100-21-0500-4530	MACH & EQUIPMENT	4,193.51
100-21-0537-4300	PROF SERVICES	39.00
100-23-0450-4210	OP SUPPLY-OTHER	333.34
100-26-0800-4272	OP SUP-BUILDINGS	194.12
100-26-0800-4300	PROF SERVICES	28.87
100-26-0800-4305	FEES FOR SERVICE	21.00
100-26-0800-4310	COMMUNICATION	162.74
100-26-0800-4360	UTILITIES	826.62
100-26-0800-4370	MAINT-REPAIR/EQ	9,573.89
100-26-0800-4372	MAINT-REPAIR/BLD	328.01
100-26-0800-4403	TRAVEL/TRAIN/CON	1,088.45
100-26-0800-4405	CLEAN/WASTE REMV	951.77
100-31-1200-4210	OP SUPPLY-OTHER	598.89
100-31-1200-4217	CLOTHING/UNIFORM	17.73
100-31-1200-4271	OP SUP-OTHER IMP	267.72
100-31-1200-4300	PROF SERVICES	189.50
100-31-1200-4305	FEES FOR SERVICE	360.75
100-31-1200-4310	COMMUNICATION	525.44
100-31-1200-4380	RENTAL/LEASE	695.00
100-32-1260-4210	OP SUPPLY-OTHER	1,169.58
100-32-1260-4300	PROF SERVICES	63.55
100-34-1290-4211	MOTOR FUELS	138.10
100-34-1290-4271	OP SUP-OTHER IMP	105,056.44
100-35-2005-4200	OFFICE SUPPLIES	387.79
100-35-2005-4210	OP SUPPLY-OTHER	63.02
100-35-2005-4305	FEES FOR SERVICE	289.16
100-35-2005-4310	COMMUNICATION	35.01
100-35-2005-4372	MAINT-REPAIR/BLD	1,634.78
100-35-2005-4380	RENTAL/LEASE	60.00
100-35-2005-4405	CLEAN/WASTE REMV	996.01
100-36-2200-4210	OP SUPPLY-OTHER	6.96
100-36-2200-4217	CLOTHING/UNIFORM	-31.00
100-36-2200-4310	COMMUNICATION	35.01
100-41-1500-4210	OP SUPPLY-OTHER	458.99
100-41-1500-4270	OP SUP-VEH/EQ	576.21
100-41-1500-4305	FEES FOR SERVICE	360.75
100-41-1500-4310	COMMUNICATION	578.77
100-41-1500-4360	UTILITIES	760.61
100-41-1500-4370	MAINT-REPAIR/EQ	573.40
100-41-1500-4372	MAINT-REPAIR/BLD	676.00
100-41-1500-4380	RENTAL/LEASE	1,140.00
100-41-1500-4403	TRAVEL/TRAIN/CON	391.16
100-41-1500-4405	CLEAN/WASTE REMV	221.32
215-54-1900-4405	CLEAN/WASTE REMV	412.63
230-60-3200-4271	OP SUP-OTHER IMP	8,360.52
230-60-3200-4310	COMMUNICATION	40.01
230-61-3260-4305	FEES FOR SERVICE	287.46

Account Summary

Account Number	Account Name	Payment Amount
230-61-3260-4311	POSTAGE	479.41
230-61-3260-4321	DATA PROCESSING	896.00
230-61-3260-4340	PRINTING	294.00
240-21-0552-4302	LEGAL SERVICE	475.00
250-77-3700-4209	OP SUPPLIES-CLEN	645.22
250-77-3700-4210	OP SUPPLY-OTHER	87.00
250-77-3700-4211	MOTOR FUELS	899.44
250-77-3700-4270	OP SUP-VEH/EQ	741.90
250-77-3700-4272	OP SUP-BUILDINGS	580.72
250-77-3700-4305	FEES FOR SERVICE	57.30
250-77-3700-4310	COMMUNICATION	38.01
250-77-3700-4341	ADVER/PUBLISH	3,462.82
250-77-3700-4370	MAINT-REPAIR/EQ	1,210.00
250-77-3700-4372	MAINT-REPAIR/BLD	21.56
250-77-3700-4401	DUES & SUBS	275.00
250-77-3700-4438	VENDING RESALE	634.62
250-77-3740-4438	CONCESSIONS RESALE	6,046.07
255-53-2100-4210	OP SUPPLY-OTHER	90.70
255-53-2100-4310	COMMUNICATION	957.11
255-53-2100-4360	UTILITIES	865.71
255-53-2100-4401	DUES & SUBS	961.01
255-55-2105-4200	OFFICE SUPPLIES	17.77
255-55-2105-4210	OP SUPPLY-OTHER	449.26
255-55-2105-4231	SMALL TOOLS	399.77
255-55-2105-4270	OP SUP-VEH/EQ	4,754.33
255-55-2105-4271	OP SUP-OTHER IMP	308.83
255-55-2105-4305	FEES FOR SERVICE	82.91
255-55-2105-4310	COMMUNICATION	253.58
255-55-2105-4380	RENTAL/LEASE	120.00
255-55-2105-4405	CLEAN/WASTE REMV	200.00
255-55-2110-4360	UTILITIES	667.20
255-56-2140-4210	OP SUPPLY-OTHER	21.47
255-56-2140-4305	FEES FOR SERVICE	562.70
255-56-2140-4360	UTILITIES	2,679.40
255-56-2140-4372	MAINT-REPAIR/BLD	387.50
255-56-2140-4436	CONCESSION RESAL	2,873.35
285-12-1135-4300	PROF SERVICES	25.76
285-12-1135-4302	LEGAL SERVICE	2,818.00
285-12-1135-4341	ADVER/PUBLISH	99.64
285-12-1150-4300	PROF SERVICES	35.44
290-00-2900-4210	OP SUPPLY-OTHER	448.91
290-00-2900-4305	FEES FOR SERVICE	281.84
290-00-2900-4360	UTILITIES	14,039.02
290-00-2900-4372	MAINT-REPAIR/BLD	1,398.76
290-00-2900-4405	CLEAN/WASTE REMV	1,675.00
455-00-7232-4552	PROJECT-LEGAL	5,438.00
510-00-6572-4550	PROJECT-CONTRACT	34,582.24
510-00-9510-2030	REFUNDS PAY	49,154.89
515-00-9515-4302	LEGAL SERVICE	48.00
515-00-9515-4540	OTHER CAP OUTLAY	34,811.00
520-00-6552-4552	PROJECT-LEGAL	910.50
520-00-6562-4550	PROJECT-CONTRACT	11,404.42
520-00-9520-2030	REFUNDS PAY	35,156.35
525-00-9525-4302	LEGAL SERVICE	576.00
535-00-9535-4302	LEGAL SERVICE	3,303.00
568-00-6629-4552	PROJECT-LEGAL	73.00
570-00-9570-4300	PROF SERVICES	7,234.17
575-00-7213-4550	PROJECT-CONTRACT	39,033.38

Account Summary

Account Number	Account Name	Payment Amount
575-00-7250-4380	RENTAL/LEASE	43,200.00
575-00-7250-4559	PROJECT-OTHER	135.20
575-00-7252-4380	RENTAL/LEASE	60,800.00
575-00-7252-4552	PROJECT-LEGAL	766.00
575-00-7252-4559	PROJECT-OTHER	785.93
580-00-7246-4550	PROJECT-CONTRACT	232,997.41
610-70-3000-4210	OP SUPPLY-OTHER	238.84
610-70-3000-4271	OP SUP-OTHER IMP	37,637.88
610-70-3000-4305	FEES FOR SERVICE	7,340.39
610-70-3000-4310	COMMUNICATION	453.28
610-70-3000-4360	UTILITIES	25,951.37
610-70-3000-4371	MAINT-REPAIR/OTH	1,612.50
610-70-3000-4403	TRAVEL/TRAIN/CON	1,839.14
610-71-3060-4305	FEES FOR SERVICE	1,145.00
610-71-3060-4311	POSTAGE	1,915.00
610-71-3060-4321	DATA PROCESSING	3,585.00
610-71-3060-4340	PRINTING	1,179.00
620-00-9620-1191	A/R-UTILITY	290.56
620-00-9620-2042	SAC	62,125.00
620-80-3100-3739	MISC UTIL	-621.25
620-80-3100-4271	OP SUP-OTHER IMP	2,270.70
620-80-3100-4310	COMMUNICATION	55.62
620-80-3100-4360	UTILITIES	272.82
620-80-3100-4363	MWCC SERVICE	200,287.56
620-80-3100-4371	MAINT-REPAIR/OTH	849.00
620-81-3160-4305	FEES FOR SERVICE	1,145.00
620-81-3160-4311	POSTAGE	1,915.00
620-81-3160-4321	DATA PROCESSING	3,585.00
620-81-3160-4340	PRINTING	1,179.00
630-75-1400-4210	OP SUPPLY-OTHER	126.91
630-75-1400-4231	SMALL TOOLS	197.62
630-75-1400-4271	OP SUP-OTHER IMP	4,230.00
630-75-1400-4305	FEES FOR SERVICE	567.75
630-75-1400-4311	POSTAGE	479.00
630-75-1400-4321	DATA PROCESSING	897.10
630-75-1400-4340	PRINTING	295.00
630-75-1400-4360	UTILITIES	983.61
630-75-1400-4361	NSP STREET LIGHT	7,394.80
630-75-1400-4438	PRO/MISC RESALE	13,930.00
630-75-1430-4360	UTILITIES	1,002.46
630-75-1440-4360	UTILITIES	1,373.88
630-75-1450-4360	UTILITIES	370.88
660-24-0600-4210	OP SUPPLY-OTHER	3,489.26
660-24-0600-4300	PROF SERVICES	10,795.00
660-24-0600-4310	COMMUNICATION	220.08
660-24-0600-4370	MAINT-REPAIR/EQ	60.90
700-00-9700-4144	HEALTH INSURANCE	3,784.57
700-00-9700-4300	PROF SERVICES	2,392.25
700-00-9700-4734	AUTO CLAIMS	8,841.63
710-33-1700-4210	OP SUPPLY-OTHER	90.68
710-33-1700-4212	LUB/ADD	400.90
710-33-1700-4217	CLOTHING/UNIFORM	96.69
710-33-1700-4231	SMALL TOOLS	11,681.01
710-33-1700-4270	OP SUP-VEH/EQ	18,185.98
710-33-1700-4305	FEES FOR SERVICE	69.16
710-33-1700-4310	COMMUNICATION	10.30
710-33-1700-4370	MAINT-REPAIR/EQ	12,933.51
710-33-1710-4211	MOTOR FUELS	7,178.51

Account Summary

Account Number	Account Name	Payment Amount
710-33-1720-4210	OP SUPPLY-OTHER	119.94
710-33-1720-4231	SMALL TOOLS	38.98
710-33-1720-4310	COMMUNICATION	45.31
720-07-0380-4280	CAPITAL OUTLAY <$5,00	41,384.97
720-07-0380-4310	COMMUNICATION	999.77
720-07-0380-4321	DATA PROCESSING	47,066.00
810-00-9810-2310	DEPOSITS PAYABLE	7,994.00
990-05-9990-2010	PERA	112,988.79
990-05-9990-2032	GROUP INS-WTHHLD	114,938.42
990-05-9990-2033	DENTAL INS-WITH	9,262.00
990-05-9990-2035	LIFE INS-WITHHLD	3,067.22
990-05-9990-2037	CHILD SUPPORT	723.66
990-05-9990-2038	UNION DUES	600.00
990-05-9990-2043	DEFERRED COMP	26,200.58
990-05-9990-2047	long term disabl	2,778.76
	Grand Total:	**1,713,888.20**

Project Account Summary

Project Account Key	Payment Amount
None	1,713,888.20
Grand Total:	**1,713,888.20**

PAYROLL CHECK REGISTER

Biweekly payroll dated 02/24/2022 $372,362.89

City Council Action Request

11A

Meeting Date	3/2/2022
Department	Community Development
Agenda Category	Regular Agenda
Title	Aggregate Industries – Scoping Environmental Assessment Worksheet
Staff Recommendation	Adopt Resolution 2022-034 authorizing distribution of the Aggregate Industries Scoping Environmental Assessment Worksheet.
Budget Implication	N/A
Attachments	Aggregate Industries EAW CC Memo.tif 33.18MB Aggregate Industries EAW Resolution.tif 2.93MB Aggregate Industries EAW Draft SDD.tif 60.23MB

Cottage Grove
Where Pride and Prosperity Meet

TO: Honorable Mayor and City Council
Jennifer Levitt, City Administrator

FROM: Emily Schmitz, Senior Planner

DATE: February 24, 2022

RE: Aggregate Industries – Scoping Environmental Assessment Worksheet

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Proposal

Aggregate Industries – MWR, Inc. (Aggregate Industries) is proposing to move its mine area, which supports the existing Nelson Sand & Gravel Mine Facility, onto an approximately 395-acre parcel of privately owned land that the company leases in the backwaters of the Mississippi River on Lower Grey Cloud Island. The planned shift in mine area would take place during a 20- to 25-year period. Aggregate Industries has been mining at the existing Nelson Sand & Gravel Mine Facility since the early 1950s when the J.L. Shiely Company (now known as Aggregate Industries) entered into a lease agreement with the private landowner. A form of this lease agreement remains in place between the private landowner and Aggregate Industries today.

The existing Nelson Sand & Gravel Mine Facility mines aggregate in the Lower Grey Cloud Island deposit and will exhaust its currently accessible minable reserves in approximately five years given the current rate of mining, market trends, and geologic variations at the site. The proposed Project's purpose is to exercise Aggregate Industries' lease to continue mechanical dredging operations in an adjacent backwaters area of the Mississippi River to supply to the Twin Cities and other local markets with construction quality natural aggregate for an additional 20 to 25 years.

The mined material will extend the functionality of the existing Nelson Sand & Gravel Mine processing facilities and ship the aggregate to market using the existing Aggregate Industries barge system. Aggregate Industries is in business to support the demand for high quality natural aggregate in the Twin Cities metropolitan market.

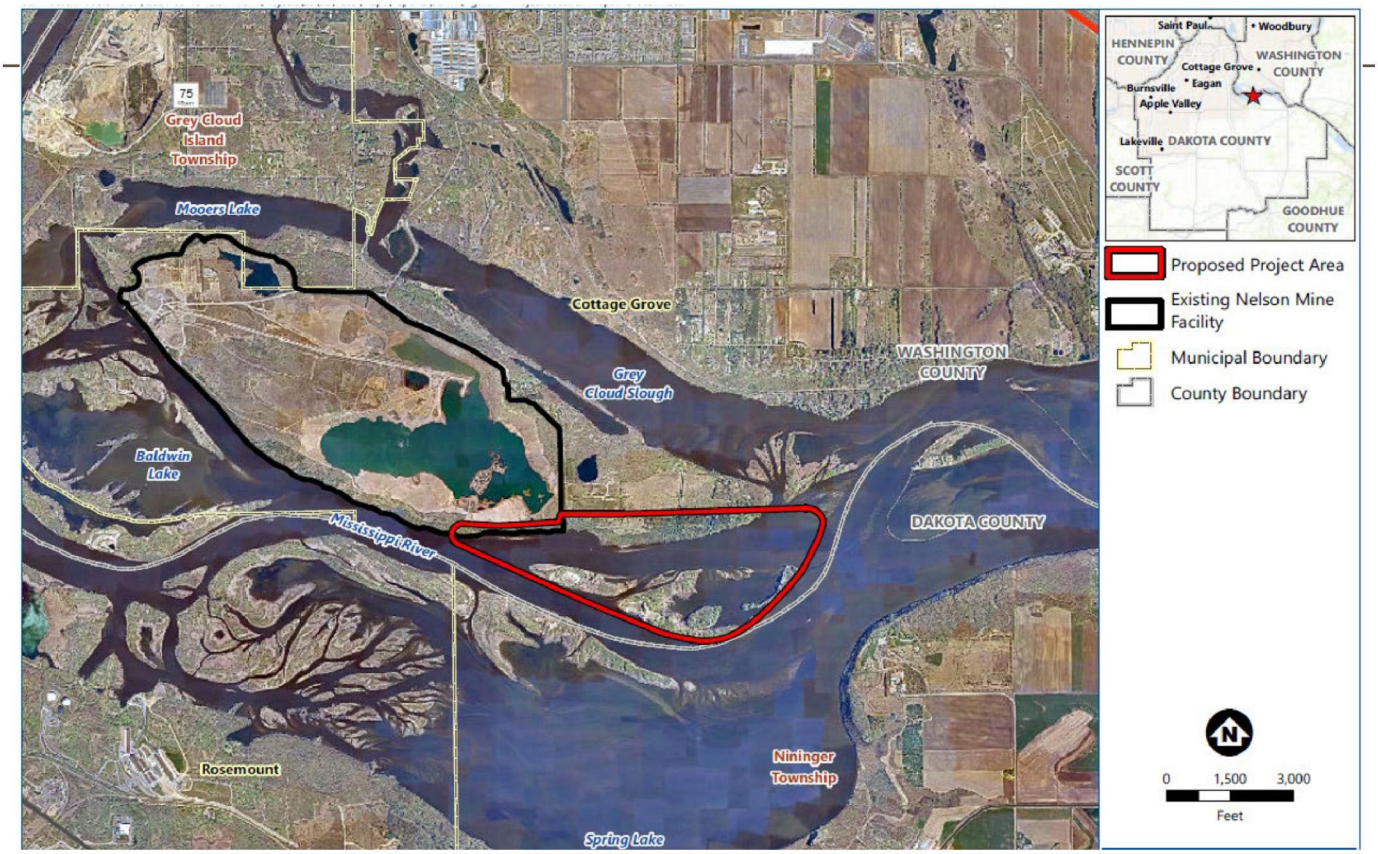
An Environmental Impact Statement (EIS) must be prepared for this project as it exceeds the thresholds identified below from Minnesota Administrative Rules (Minnesota Rules) where the City of Cottage Grove is the Responsible Government Unit (RGU):

- 4410.4400, Subpart 9B – development of a facility for the extraction or mining of sand, gravel, stone, or other nonmetallic minerals other than peat, which will excavate 160 acres of land or more to a mean depth of 10 feet or more during its existence, the local governmental unit is the RGU.

- 4410.4400, Subpart 9C – development of a facility for the extraction or mining of sand, gravel, stone, or other nonmetallic minerals other than peat, which will excavate 40 or more acres of forested or other naturally vegetated land in a sensitive shoreland area or 80 or more acres of forested or other naturally vegetated land in a non-sensitive shoreland area, the local governmental unit is the RGU.

Pursuant to Minnesota Rules for nonmetallic mineral mining, the City of Cottage Grove, acting as the RGU, has prepared a Draft Scoping Decision Document (SDD) for Aggregate Industries Nelson Mine Backwater Project (Project). This Draft SDD is a companion to the Draft Scoping Environmental Assessment Worksheet (EAW) prepared for the Project.

Council action needed is to approve distribution of these two documents related to the Scoping process in a State-mandated EIS. The Draft Scoping EAW and Draft SDD are anticipated to be published in the Environmental Quality Board (*EQB) Monitor* on March 15, 2022.



Project Location Map

Background

The purpose of an EIS is to provide information for governmental units, the proposer of the project, and other persons to evaluate proposed projects that have the potential for significant environmental effects, to consider alternatives to the proposed projects, and to explore methods for reducing adverse environmental effects (Minnesota Rules 4410.2000 Subp. 1).

This EIS scoping process occurs when a project requires a mandatory EIS according to Minnesota Rules 4410.2000, Subpart 2. The EIS scoping process occurs before the preparation of an EIS and is intended to reduce the scope and bulk of the EIS by identifying only the potentially significant issues related to the project, outlining the EIS document and preparation timeline, and determining the permits that require information in order to be developed concurrently to the EIS. The Scoping Decision Documents will be published with the EQB for a 30-day public review and comment period. As the RGU, the City of Cottage Grove requires a public hearing per City

Code on the proposed project on March 28, 2022, during the regularly-scheduled Planning Commission meeting.

The purpose of the Draft SDD is to give the public a preliminary view of the intended scope and identify the issues and alternatives that will be examined in depth in the EIS. The information in this Draft SDD should be considered preliminary and subject to revision based on the entire record of the scoping process. The Draft SDD also presents a tentative schedule of the environmental review process. Following completion of the scoping process, a Final SDD will be developed and the EIS will be prepared in accordance with the Final SDD.

Draft Scoping Decision Document (SDD) Content

Project Purpose and Need
When assessing the viability of various alternatives, and per Minnesota Rules (4410.2300 H), the EIS considers the fundamental need for the Project in addition to the environmental, employment, and sociological impacts of the proposed action and each major alternative. The proposed Project's purpose is to exercise Aggregate Industries' lease to continue mechanical dredging operations in an adjacent backwaters area of the Mississippi River to supply to the Twin Cities and other local markets with construction quality natural aggregate for an additional 20 to 25 years.

As indicated by aggregate industry leaders and the Minnesota Legislature, aggregate reserves in the Twin Cities metropolitan area are limited and the need for the proposed Project is to provide a continued local supply of construction-quality aggregate from a local, accessible source. Project beneficiaries include projects that require aggregate materials, such as roadway and other infrastructure projects, by providing a cost-competitive, local aggregate source.

Project Alternatives
The EIS must evaluate the "environmental, economic, employment, and sociological impacts" (Minnesota Rule 4410.2300, Item H.) of the Project and will compare the potentially significant impacts of the proposed Project with a No Action Alternative and other reasonable alternatives. The Minnesota Environmental Review Rules require the EIS to address at least one alternative of each of the following types of alternatives or provide an explanation of why no alternative of a particular type is included in the EIS:

- No Action Alternative
- Alternative Sites
- Alternative Technologies
- Modified Designs or Layouts
- Modified Scale or Magnitude
- Alternatives incorporating reasonable mitigation measures identified through the EIS scoping and Draft EIS process.

EIS Issues
As representatives of the RGU, City staff and technical consultants have evaluated the Scoping EAW to determine how the topics should be treated in the Draft EIS using the following criteria:

A. The topic is obviously not relevant or is so minor that it will not be addressed at all in the Draft EIS
B. The topic is minor, but will be discussed briefly in the Draft EIS using the same information as in the Scoping EAW
C. The topic is significant, but the Scoping EAW information is adequate for use in the Draft EIS
D. The topic is significant and information beyond what was in the Scoping EAW will be included in the Draft EIS

The table below identifies at this time how significant each Scoping EAW topic will be for further analysis once the Proposer prepares a Draft EIS following the Scoping phase.

Scoping EAW Item Number and EIS Content Topic	How Topic will be Addressed in Draft EIS
6. Project Description	D
7. Cover Types	B
9. Land Use	C
10. Geology, Soils, and Topography/Land Forms	D
11. Water Resources	D
12. Contamination/Hazardous Materials/Wastes	B
13. Fish, Wildlife, Plant Communities, and Sensitive Ecological Resources	D
14. Historic Properties	C
15. Visual	C
16. Air	D
17. Noise	C
18. Transportation	B
19. Cumulative Potential Effects	D
20. Other Potential Environmental Effects	D

Phased or Connected Actions

A phased action means "two or more projects to be undertaken by the same proposer" that "will have environmental effects in the same geographic area and are substantially certain to be undertaken sequentially over a limited period of time." (Minnesota Rules 4410.0200, subp. 60). The existing mine area and the proposed Project fail to meet this definition because they are not being undertaken in a limited period of time.

EIS Schedule

A Minnesota EIS requires extensive issue identification and analysis in three phases of work:

1. Scoping
2. Draft EIS
3. Final EIS

The publication of the Draft SEAW and Draft SDD on March 15, 2022 will initiate a 30-day comment period. The table below identifies the remaining steps in the Scoping process.

Planned Date	Event
March 2, 2022	RGU approves resolution
March 8, 2022	Draft Scoping EAW and Draft Scoping Decision Document submitted to EQB
March 15, 2022	Draft Scoping EAW and Draft Scoping Decision Document published in *EQB Monitor*
March 28, 2022	RGU holds public hearing at Planning Commission
April 20, 2022	RGU approves Record of Decision and Findings and Scoping Decision Document
April 25, 2022	RGU decision distributed to agencies and any other commenters
May 5, 2022	RGU issues scoping decision (within 15 workings days after comment period ends; this 15-day period shall be extended by the EQB chair by no more than 15 additional days upon request of the RGU).
June 20, 2022	EIS preparation notice published in *EQB Monitor*, RGU issues press release, 280-day EIS process begins

The Draft EIS is anticipated to be ready to publish in the *EQB Monitor* sometime between November 2022 – March 2023 for another 30-day comment period and required public meeting.

Special Studies or Research

A scoping process for the proposed Project was initiated in 2007. A Scoping Decision Document was published in April 2008, leading to the preparation of a Draft EIS. A Draft EIS was developed to the point where a preliminary version was made available to participants of the proposed Project's Technical Advisory Committee. Aggregate Industries made a business decision to pause the proposed Project in Fall 2010 before the Draft EIS was published for public review and comment. Studies were initiated and completed in the late 2000's to support the Draft EIS and some of those studies are still relevant, while others need to be updated or redone due to the time lapse.

The Draft SDD outlines the studies being prepared for the Draft EIS.

TAC

A Technical Advisory Committee (TAC) has been compiled by City staff to inform the process and content of the EIS for the Nelson Mine Backwater Project EIS. The TAC is intended to provide insights and relevant technical information that can improve the development of the EIS and adequately assess environmental effects. Held in February, the purpose of the first TAC meeting was to provide an overview of the proposed project and solicit input on topics that should be highlighted in upcoming TAC meetings including permitting, relevant studies and research being conducted, and early consultation with State agencies. Agencies and partners represented on the TAC include:

- State of Minnesota
  - Department of Natural Resources (DNR)
  - Department of Transportation (MnDOT)
  - Pollution Control Agency (MPCA)
  - Metropolitan Council

- Counties
  - Washington County Administration
  - Washington County Conservation District
  - Dakota County Parks

- Watersheds
  - South Washington Watershed District

- Federal
  - Army Corp of Engineers (USACE)
  - Fish and Wildlife Service (USFWS)
  - National Park Service (NPS)

- Other
  - Friends of the Mississippi River
  - Upper Mississippi Waterway Association
  - United Pentecostal Church

Government Permits or Approvals
The Draft SDD contains a table listing any known permits or approvals that will be required for the Project. Approval of permits is contingent on the Proposer meeting the individual requirements of each permit in this mandatory EIS process.

Public Hearing
Minnesota Rules require a 30-day comment period on the Scoping documents for a mandatory EIS. During the 30-day comment period, anyone may review and comment on the Scoping EAW and Draft SDD. Comments will be received in writing and verbally during a public hearing at a Planning Commission meeting to receive comments about the Scoping EAW and Draft SDD.

The City of Cottage Grove will hold the public hearing to receive comments about the Scoping EAW and Draft SDD. The Planning Commission's role is to provide a forum for the public to make verbal comments on the contents of the Scoping documents. The comments will be compiled in the Planning Commission minutes and responses to the comments will be included in the final record of decision. The Planning Commission is not required to respond to any comments or to take any action on the Scoping EAW or Draft SDD.

Recommendation

That the City Council adopt the resolution authorizing distribution of the Scoping EAW.

CITY OF COTTAGE GROVE, MINNESOTA
CITY COUNCIL
RESOLUTION 2022-XXX

A RESOLUTION ORDERING DISTRIBUTION OF A SCOPING ENVIRONMENTAL ASSESSMENT WORKSHEET AND A SCOPING DECISION DOCUMENT FOR AGREGGATE INDUSTRIES NELSON MINE BACKWATER PROJECT

WHEREAS, Minnesota Rules 4410.2000 Subpart 2 provide guidance on the circumstances that require an EIS; and

WHEREAS, the City has prepared a Draft Scoping Decision Document (SDD) for Aggregate Industries Nelson Mine Backwater Project; and

WHEREAS, the City has prepared a Draft Scoping Environmental Assessment Worksheet (EAW) for Aggregate Industries Nelson Mine Backwater Project; and

WHEREAS, Minnesota State Rules require distribution of the draft SDD and the draft Scoping EAW for a 30-day comment period; and

WHEREAS, Minnesota State Rules require the Draft Scoping EAW and Draft SDD to be published in the Environmental Quality Board (EQB); and

NOW THEREFORE BE IT RESOLIVED, the City Council of the City of Cottage Grove, County of Washington, State of Minnesota, adopts this Order for distribution of a Draft Scoping EAW and Draft Scoping Decision Document for the Aggregate Industries Nelson Mine Backwater Project.

Passed this 2nd day of March 2022.

_____
Myron Bailey, Mayor

Attest:

_____
Joe Fischbach, City Clerk

Aggregate Industries Nelson Mine Backwater Project
Draft Scoping Decision Document

City of Cottage Grove
Washington County, MN

February 2022

TABLE OF CONTENTS

1 Introduction and Purpose 1

1.1 Background 1

1.2 Purpose and Need of the Project 1

1.2.1 Purpose of the Project 2

1.2.2 Need for the Project 2

1.3 The Scoping Process 3

2 Project Alternatives 3

2.1 Proposed Project 3

2.2 No Action Alternative 4

2.3 Site Alternatives 4

2.4 Technology Alternatives 4

2.5 Modified Designs or Layouts 5

2.6 Modified Scale or Magnitude Alternative 5

2.7 Incorporation of Reasonable Mitigation Measures Identified Through Public Comments 5

3 EIS Issues 5

3.1 Issues to be Addressed in the Draft EIS 6

3.2 Project Description 6

3.3 Geology, Soils, and Topography/Land Forms 7

3.4 Water Resources 7

3.5 Fish, Wildlife, Plant Communities, and Sensitive Ecological Resources 7

3.6 Air 8

3.7 Cumulative Potential Effects 8

3.8 Other Potential Environmental Effects 9

4 Identification of Phased or Connected Actions 9

5 EIS Schedule (Tentative) 9

6 Special Studies or Research 11

7 Government Permits and Approvals (Scoping EAW item) 13
8 Proposer: Aggregate Industries - MWR, Inc. 14
9 Responsible Government Unit (RGU): City of Cottage Grove, MN 14

LIST OF TABLES

Table 3-1 Draft Scoping Decision Item Summary 6
Table 5-1 Scoping Process 9
Table 5-2 Draft EIS 10
Table 5-3 Final EIS 10
Table 6-1 Special Studies or Research 11
Table 7-1 Permits and Approvals to be Required or Modified 13

1 Introduction and Purpose

Pursuant to Minnesota Administrative Rules (Minnesota Rules) for nonmetallic mineral mining, 4410.4400, Subpart 9B and Subpart 9C, the City of Cottage Grove, acting as the Responsible Governmental Unit (RGU) has prepared a Draft Scoping Decision Document (SDD) for Aggregate Industries – MWR, Inc. (Proposer) Nelson Mine Backwater Project (Project).

This Draft SDD is a companion to the Draft Scoping Environmental Assessment Worksheet (SEAW) prepared for the Project. The purpose of the Draft SDD is to give the public a preliminary view of the intended scope and identify the issues and alternatives that will be examined in depth in the Environmental Impact Statement (EIS). The information in this Draft SDD should be considered preliminary and subject to revision based on the entire record of the scoping process. The Draft SDD also presents a tentative schedule of the environmental review process. Following completion of the scoping process, a Final SDD will be developed, and the EIS will be prepared in accordance with the Final SDD.

A mandatory EIS process is required due to the request by the Proposer that fits into these categories of Minnesota Rules:

> 4410.4400, Subpart 9B – development of a facility for the extraction or mining of sand, gravel, stone, or other nonmetallic minerals other than peat, which will excavate 160 acres of land or more to a mean depth of 10 feet or more during its existence.
>
> 4410.4400, Subpart 9C – development of a facility for the extraction or mining of sand, gravel, stone, or other nonmetallic minerals other than peat, which will excavate 40 or more acres of forested or other naturally vegetated land in a sensitive shoreland area or 80 or more acres of forested or other naturally vegetated land in a non-sensitive shoreland area.

1.1 Background

Aggregate Industries – MWR, Inc. (Aggregate Industries) is proposing to move its mine area, which supports the existing Nelson Sand & Gravel Mine Facility, onto an approximately 395-acre parcel of privately owned land that the company leases in the backwaters of the Mississippi River. Although it leases the mining area, Aggregate Industries owns the land where the processing plant infrastructure is located. The planned shift in mine area would take place during a 20 to 25-year period. Aggregate Industries has been mining at the existing Nelson Sand & Gravel Mine Facility since the early 1950s when the J.L. Shiely Company (now known as Aggregate Industries) entered into a lease agreement with the private landowner. A form of this lease agreement remains in place between the private landowner and Aggregate Industries today.

1.2 Purpose and Need of the Project

When assessing the viability of various alternatives, and per Minnesota Rules (4410.2300 H), the EIS considers the fundamental need for the Project in addition to the environmental, employment, and sociological impacts of the proposed action and each major alternative. The purpose and need

statements below have been developed by the Proposer and will be expanded in the Draft EIS to include a more detailed description of the supply of and demand for construction-quality natural aggregate in the Twin Cities metropolitan area.

1.2.1 PURPOSE OF THE PROJECT

The existing Nelson Sand & Gravel Mine Facility mines aggregate in the Lower Grey Cloud Island deposit and will exhaust its currently accessible minable reserves in approximately five years given the current rate of mining, market trends, and geologic variations at the site. The proposed Project's purpose is to exercise Aggregate Industries' lease to continue mechanical dredging operations in an adjacent backwaters area of the Mississippi River to supply to the Twin Cities and other local markets with construction quality natural aggregate for an additional 20 to 25 years.

The mined material will extend the functionality of the existing Nelson Sand & Gravel Mine processing facilities and ship the aggregate to market using the existing Aggregate Industries barge system. Aggregate Industries is in business to support the demand for high quality natural aggregate in the Twin Cities metropolitan market.

1.2.2 NEED FOR THE PROJECT

The Aggregate Resources Inventory of the Seven-County Metropolitan Area (prepared by the Minnesota Geological Survey (MGS) as Information Circular 46 dated May 9, 2000), denotes aggregate resources are critical and finite resources with an estimated depletion of the local aggregate resources by the year 2029. These calculations were based on realistic urban-growth scenarios that assume no fundamental changes in land use policies or pit and quarry design at that time.

The MGS estimated that approximately 70% of aggregate reserves in the Twin Cities metropolitan area are covered by development and are no longer available for use. Several of the natural aggregate deposits in Hennepin and Ramsey counties are depleted and some are no longer available for mining due to surface development, protection by open space and park type uses, and/or adjacent development hinders siting and operational requirements. The top two aggregate producing counties in the Twin Cites seven county metro are Dakota (#1) and Washington (#2). Many natural aggregate deposits are in eastern Washington and central Dakota counties but may not be available in the future due mainly to the reasons stated above.

The Minnesota Legislature recognized the depletion of aggregate resources and established an eight-member Aggregate Resources Task Force in 2016 (MN Laws 2016, Chapter 189, Article 3, Section 50). The task force convened in 2017 and provided a Final Report to the Minnesota Legislature, dated January 15, 2018. The task force was charged with evaluating aggregate mapping progress and needs; effectiveness of recent aggregate tax legislation and the use of revenues collected by counties; use of state funds to preserve aggregate reserves; and local land use and permitting issues, environmental review requirements, and the impacts of other state regulations on aggregate reserves. One of the recommendations of the task force was to complete additional mapping of aggregate reserves to inform land use decisions to ensure the preservation and continued supply of aggregate.

Aggregate reserves in the Twin Cities metropolitan area are limited and the need for the proposed Project is to provide a continued local supply of construction-quality aggregate from a local, accessible source. Project beneficiaries include projects that require aggregate materials, such as roadway and other infrastructure projects, by providing a cost-competitive, local aggregate source.

1.3 The Scoping Process

Public review and comment on the Draft SDD will be conducted in accordance with Minnesota Rules part 4410.2100. After public review and comment the RGU will consider the comments received and develop a Final SDD. A notice of availability of the Final SDD will be published in the *EQB monitor*.

2 Project Alternatives

The EIS must evaluate the "Environmental, economic, employment, and sociological impacts" (Minnesota Rule 4410.2300, Item H.) of the Project and will compare the potentially significant impacts of the proposed Project with a No Action Alternative and other reasonable alternatives. The Minnesota Environmental Review Rules require the EIS to address at least one alternative of each of the following types of alternatives or provide an explanation of why no alternative of a particular type is included in the EIS (Minnesota Rule 4410.2300, Item G.):

- No Action Alternative
- Alternative Sites
- Alternative Technologies
- Modified Designs or Layouts
- Modified Scale or Magnitude
- Alternatives incorporating reasonable mitigation measures identified through the EIS scoping and Draft EIS process.

An alternative may be excluded from analysis in the EIS if:

- It does not meet the underlying need for or purpose of the Project.
- It would likely not have any significant environmental benefit compared to the proposed Project.
- It would likely not have any significant environmental benefit compared to another alternative that will be analyzed in the EIS that would likely have similar environmental benefits but substantially less adverse economic, employment, or sociological impacts.

2.1 Proposed Project

The existing Nelson Sand & Gravel Mine Facility will exhaust its current minable reserves in approximately 5 years given the current rate of mining, market trends, and geologic variations at the site. Aggregate Industries is proposing to move its mine area, which supports the existing Nelson Sand & Gravel Mine Facility, to mine additional reserves adjacent to the existing mine, on a privately owned parcel of land in the backwaters area of the Mississippi River (proposed Project). Current mining means

and methods at the existing plant would be employed to mine the reserves. Processing techniques, processing equipment, equipment run rates, hours of operation and staffing at the existing Nelson Sand & Gravel Mine Facility would all remain unchanged. In addition, the current river-based transportation system would remain unchanged; assuming consistent market conditions, barge capacities and annual trips are expected to remain the same. Barges would continue to be loaded at the existing dock wall location of the Nelson Sand & Gravel Mine Facility using the same equipment.

The proposed mining area would be developed in phases. A floating dredge unit would be in the proposed mining area and a conveyor network would be reconfigured prior to the initiation of mining. Mining would begin in the western portion of the proposed mining area within an approximately 35-acre area and would last up to three years. From there, mining would extend to the east in three subsequent phases: an approximately 55-acre area in years 4 through 8; an approximately 65-acre area in years 9 through 13; and an approximately 75-acre area in years 14 through 20.

2.2 No Action Alternative

The EIS must include a No Action Alternative analysis as required by Minnesota Rules. The evaluation of the No Action Alternative will describe and analyze the potential impacts, outcomes, constraints, benefits and disadvantages, and economics if the proposed Project did not occur. The description will include a discussion of the supply of and demand for aggregate in the Twin Cities and surrounding area and the impact the proposed Project has on both.

2.3 Site Alternatives

The proposed Project site represents a resource that is well situated to produce a significant quantity of construction quality natural aggregate utilizing the river as a transportation corridor to market. The proposed Project provides efficiency by shifting operations to continue mining in an adjacent area to the existing mine with similar production rates and attributes. The need for the proposed Project will require further evaluation in the context of aggregate reserves in the Twin Cities and surrounding area.

The feasibility of alternative sites that meet the purpose and need of the Project will be evaluated in the Draft EIS. These may include alternative sites along the river, an expansion of existing mine sites, the development of new inland mine sites, or sites that produce a different type of aggregate that could be a reasonable substitute for natural aggregate.

2.4 Technology Alternatives

Aggregate Industries is currently using mechanical dredging to mine aggregate resources in its existing Nelson Sand & Gravel Mine Facility and proposes to continue mechanical dredging with the proposed Project. Examples of other available mining technologies include hydraulic dredging and dragline dredging. Other technologies, and modifications to the proposed mechanical dredging that could minimize environmental effects, will be evaluated in the EIS.

2.5 Modified Designs or Layouts

The EIS will identify the proposed Project including more detail from the mining plan on the design, operations, layout, and sizing. The EIS will assess the effect that alternative design elements or layout configurations would have and whether they represent alternatives that will require additional consideration. As studies are completed, proposed Project modifications may be identified that change the design of operations or layout of the mine area to reduce impacts. If modified designs or layouts are not identified that provide greater environmental protection, the EIS will present the information that supports that conclusion.

2.6 Modified Scale or Magnitude Alternative

The EIS will provide more detail on the scale and magnitude of the proposed Project. The EIS will assess the feasibility of alternative project scales of operations or annual production and whether they represent alternatives that will require additional consideration. If alternate scales are not feasible, rationale for such determination will be described in full. As analysis is completed, Project modifications to scale or magnitude may be identified that change the design of operations or layout of the mine area to reduce impacts. If changes in scale or magnitude of designs or layouts are not identified that provide greater environmental protection, the EIS will present the information that supports that conclusion.

2.7 Incorporation of Reasonable Mitigation Measures Identified Through Public Comments

The RGU will consider alternatives incorporating reasonable mitigation measures identified through the Scoping EAW and Draft EIS process. Such mitigation measures will be evaluated against the criteria identified in Minnesota Rules Chapter 4410.2300 Subpart G. Alternatives incorporating reasonable mitigation measures identified in the Draft EIS will be reviewed for further evaluation in the Final EIS. Mitigation measures will be identified in the Draft EIS to provide decision makers with measures to reduce environmental impacts.

3 EIS Issues

The RGU has evaluated the Scoping EAW to determine how the topics evaluated will be treated in the Draft EIS using the following criteria:

A. The topic is obviously not relevant or is so minor that it will not be addressed at all in the Draft EIS.
B. The topic is minor but will be discussed briefly in the Draft EIS using the same information as in the Scoping EAW.
C. The topic is significant, but the Scoping EAW information is adequate for use in the Draft EIS.
D. The topic is significant and information beyond what was in the Scoping EAW will be included in the Draft EIS.

3.1 Issues to be Addressed in the Draft EIS

Table 3.1 identifies the topic and to what degree (as identified in Section 3 A-D above) they will be addressed in the Draft EIS; Sections 3.2-3.8 provide a description for topics cataloged as "D". Mitigation if needed and available will be evaluated and presented for each topic and used to evaluate alternatives and the potential environmental effects.

Table 3-1 Draft Scoping Decision Item Summary

Scoping EAW Item Number and EIS Content Topic	How Topic will be Addressed in Draft EIS
6. Project Description	D
7. Cover Types	B
9. Land Use	C
10. Geology, Soils, and Topography/Land Forms	D
11. Water Resources	D
12. Contamination/Hazardous Materials/Wastes	B
13. Fish, Wildlife, Plant Communities, and Sensitive Ecological Resources	D
14. Historic Properties	C
15. Visual	C
16. Air	D
17. Noise	C
18. Transportation	B
19. Cumulative Potential Effects	D
20. Other Potential Environmental Effects	D

3.2 Project Description

- A mining plan with a schedule of activities will be presented in the Draft EIS including descriptions of earth moving activities for operational and resource extraction purposes, stockpiling, phasing of underwater aggregate removal, reclamation, and other aggregate conveying and storage.
- A description of current mine operations including access roads, utility corridors, conveyance systems, dust suppression, and other site enhancements to facilitate mining are included in the Draft SEAW and will be presented in the Draft EIS. Proposed modifications to the mining plan revealed from the outcome of additional studies would be included in the Draft EIS.
- The Draft EIS will consider potential economic and social impacts of the proposed Project and how the project would affect employment, direct and indirect economic impacts, and environmental justice issues.

3.3 Geology, Soils, and Topography/Land Forms

- A detailed description of the geology of the island and mining area will be included.
- The mining plan will describe the construction of the proposed barrier islands, slope stability evaluation, the removal plan for the islands at the completion of mining, and any associated impacts that may occur to wetlands or other resources.
- Review of and updates to modeling completed previously will address concerns related to in-channel head-cutting, downstream sedimentation, potential for rise in flood elevations, and underwater slope stability.
- Final topography, bathometry, soil slopes, and stabilization measures above and below the water surface will be described.
- Reclamation using onsite and/or imported soils will described and include discussion about grading and restoration/reclamation activities.

3.4 Water Resources

- The Draft EIS will include an Underwater Slope Stability Analysis, Bathymetry Survey, Water Quality Flow Modeling Study, and Sediment Analysis Study to assess the potential impacts to streambed alterations, surface water disturbances, downstream turbidity and sedimentation, water quality issues, navigable channel disruptions (if identified), and shoreline erosion.
- Review of and updates to modeling completed previously will address concerns related to in-channel head-cutting, downstream sedimentation, potential for rise in flood elevations, and underwater slope stability to address potential concerns to water resources.
- A wetland delineation report has been completed for the Project and the findings will be included in the EIS in accordance with Section 404 Clean Water Act and MN Wetland Conservation Act standards.
- Impacts to wetland and open water functions and values will be identified and mitigation for impacts proposed in the Draft EIS.

3.5 Fish, Wildlife, Plant Communities, and Sensitive Ecological Resources

- Direct and indirect impacts to fish, wildlife, plants, and other sensitive resources will be evaluated in the Draft EIS.
- The Natural Heritage Information System (NHIS) database will be reviewed to determine if any records of rare species or rare natural resource features are located close to the proposed Project.
- If needed, the Draft EIS will re-evaluate the proposed Project area for the occurrence of any state or federal listed species, and potential impacts to rare features.

- Fish populations in and around the mining area will be identified and potential impacts addressed utilizing all available studies and public data from the MNDNR, USFWS, and other stakeholders.
- There are both federal and state listed mussel species in the proposed Project vicinity. Additional information will be provided from recently completed surveys to assess potential impacts.
- The presence of and potential impact to macroinvertebrates will be addressed in the Draft EIS utilizing all available studies and public data from the MNDNR, USFWS, and other stakeholders.
- Indirect impacts to native plant communities including the introduction or spread of invasive species will be addressed in the Draft EIS.
- The Draft EIS will assess the habitat on and around Grey Cloud Island for suitability of state listed birds, Blanding's turtle, rusty patched bumble bee, Northern long-eared bat, Leonard's skipper, sandy stream tiger beetles, and/or other species. The Draft EIS will describe potential impacts and as needed measures to avoid, minimize, or mitigate direct or indirect impacts to state or federal listed species.

3.6 Air

- Quantification and discussion on the proposed Project's Greenhouse Gas (GHG) Emissions will be provided.
- Scope 1, 2, and 3 GHG emissions will be calculated and presented as will the methods used to quantify the emissions.
- Mitigation will be considered, and reductions quantified, to reduce the Project's GHG emissions.
- Quantification of the proposed Project's predicted annual and net lifetime GHG emissions (total tons/# of years) and how total GHG emissions from the Project will be compared against annual GHG emissions emitted globally, nationally, and within Minnesota will be provided at appropriate scales.
- Additional analysis will be completed for the barge traffic on the river and a comparison of river versus road transport of products and the impact on GHG emissions.
- The Draft EIS will identify the quantity, type, source, composition of emissions, and pollution prevention techniques and controls on mining operations.

3.7 Cumulative Potential Effects

- The Draft EIS will identify and evaluate other projects in the environmentally relevant area that may be reasonably expected to contribute to a cumulative impact related to the topics identified in Table 3.1.
- Past operations will be included in the Draft EIS and a cumulative potential effect determined for the relevant topics identified in Table 3.1.

3.8 Other Potential Environmental Effects

- Climate adaptation and resilience of the proposed Project will be described in relation to the climate trends in the general location of the Project and how climate change is anticipated to affect that location during the life of the Project.
- For topics in Table 3.1 that could be significantly impacted by changing climate trends, a description will be included on how the Project's proposed activities and design would interact with these trends, and proposed adaptations to address the Project effects identified.

4 Identification of Phased or Connected Actions

A phased action means "two or more projects to be undertaken by the same proposer" that "will have environmental effects in the same geographic area and are substantially certain to be undertaken sequentially over a limited period of time." (Minnesota Rules 4410.0200, subp. 60). The existing mine area and the proposed Project fail to meet this definition because they are not being undertaken in a limited period of time.

Two projects are connected actions if a responsible governmental unit determines they are related in any of the following ways (Minnesota Rules 4410.0200 subp. 9c):

A. One project would directly induce the other;
B. One project is a prerequisite for the other and the prerequisite project is not justified by itself; or,
C. Neither project is justified by itself.

The proposed Project and existing mine do not meet these criteria. The proposed Project itself exceeds two mandatory EIS thresholds and is not necessary to label as a connected action because the potential environmental effects of the two projects will be assessed as cumulative potential effects as stated in Section 3.9.

5 EIS Schedule (Tentative)

The schedule in Table 5.2 and 5.3 assumes an extension to the 280-day completion deadline (MN 4410.2800, Subp. 3), as agreed upon by the Proposer and RGU. Coordination between the Proposer and the RGU is ongoing to maximize the efficiency of the process and the EIS may be completed in a shorter timeframe than outlined.

Table 5-1 Scoping Process

Planned Date	Event
March 2, 2022	RGU approves resolution
March 8, 2022	Draft Scoping EAW and Draft Scoping Decision Document submitted to EQB

Planned Date	Event
March 15, 2022	Draft Scoping EAW and Draft Scoping Decision Document published in *EQB Monitor*
March 28, 2022	RGU holds public meeting
April 20, 2022	RGU approves Record of Decision and Findings and Scoping Decision Document
April 25, 2022	RGU decision distributed to agencies and any other commenters
May 5, 2022	RGU issues scoping decision (within 15 workings days after comment period ends; this 15-day period shall be extended by the EQB chair by no more than 15 additional days upon request of the RGU).
June 20, 2022	EIS preparation notice published in *EQB Monitor*, RGU issues press release, 280-day EIS process begins

Table 5-2 Draft EIS

Planned Date	Event
March 2023	Draft EIS submitted to EIS distribution list and summary if provided to all members of the EAW distribution list and other commenters
March 2023	Draft EIS published in the *EQB Monitor*
April 2023	RGU holds informational meeting not les than 15 days after publication in *EQB Monitor*
May 2023	RGU publishes responds to substantive comments on Draft EIS and prepares Final EIS

Table 5-3 Final EIS

Planned Date	Event
August 2023	Final EIS distributed to all people who received the entire Draft EIS, anyone who submitted substantive comments, and any person requesting Final EIS (where feasible)
August 2023	Final EIS published in *EQB Monitor*
September 2023	Interested persons may submit written comments (not less than 10 days following publication)
November 2023	RGU makes determination of adequacy of the Final EIS (at least 10 days following publication)
December 2023	RGU will notify all persons receiving copies of the Final EIS of its adequacy (within 5 days of adequacy decision) and publish notice in *EQB Monitor*

6 Special Studies or Research

A scoping process for the proposed Project was initiated in 2007. A Scoping Decision Document was published in April 2008, leading to the preparation of a Draft EIS. A Draft EIS was developed to the point where a preliminary version was made available to participants of the proposed Project's Technical Advisory Committee. Aggregate Industries made a business decision to pause the proposed Project in Fall 2010 before the Draft EIS was published for public review and comment. Studies were initiated and completed in the late 2000's to support the Draft EIS and some of those studies are still relevant, while others need to be updated or redone due to the time lapse. Table 6-1 summarizes the status of applicable studies and surveys for the Project.

Table 6-1 Special Studies or Research

Study/Survey	Background	Status
Mussel Survey	There are both federal and state listed species in the Project vicinity that could be impacted, previous surveys were completed and will be referenced.	New field surveys completed in 2021 to account for current federal and state protected species.
Bathymetry Survey	Survey was previously completed in the proposed mining area and will be referenced to document the dynamics of how the Mississippi River has changed over time. Survey is important to help identify the amount of wetland impact (and mitigation needs) vs. open water impact.	New field survey completed in 2021 of the proposed mining area to provide data reflective of current conditions and to better inform wetland impact and mitigation requirements.
Sediment Analysis Study	Field sampling was previously completed for the Project, but regulatory changes since the original study have prompted changes to types of pollutants that are assessed in sediment analyses (e.g., PFAS).	New survey completed in 2021 to account for current conditions, sampling standards, and targets.
Underwater Slope Stability Analysis	Study previously completed and will be referenced to document the dynamics of how the Mississippi River has changed over time.	New study completed in 2021 to review past study in regard to downstream island stability area, which has since been riprapped.
Visual Impact Assessment	Study was conducted previously, however, the National Park Service (NPS) has a new visual assessment methodology now that is not seasonally dependent.	New field survey completed in 2021 based on current NPS visual assessment methodology (not seasonally dependent).

Study/Survey	Background	Status
Wetland Delineation and Functional Assessment	Study previously completed and will be referenced to document the dynamics of how the Mississippi River has changed over time.	Wetland delineation and functional assessment completed in 2021 to assess current conditions. An agency meeting (technical evaluation panel) will be needed at the site to verify boundaries.
Upland Species Study	Upland species study not previously completed.	Upland areas surveyed in 2021 to identify habitat for state or federal listed species.
Aquatic Plant Study	Aquatic species study not previously completed.	Plant survey completed in 2021 to identify state or federal listed species.
Waterbird Study	Study was previously completed and USFWS information available that is more current than this study information.	Update previous study with more current USFWS information.
Fishery Population Assessment	Study previously completed by a subconsultant and by the DNR.	Update study per additional data collected by DNR, USFWS, and other stakeholders, if needed additional field survey to be completed.
Macroinvertebrate Survey	Survey previously completed.	Update study with additional information collected by Metropolitan Council and other stakeholders, if needed additional field survey to be completed.
Water Quality Flow Modeling Study	Study previously completed.	The previous model will be reviewed to determine edits needed, and potentially rerun the model to evaluate the results.
Cultural Resources Study	Previous study was completed for upland and underwater areas and included a site visit with Tribal Historic Preservation Officers (THPOs). No resources were found, and findings were submitted to SHPO and USACE.	Updating the Phase I file review and coordination with SHPO and THPOs to be completed.

7 Government Permits and Approvals (Scoping EAW item)

Table 7-1 Permits and Approvals to be Required or Modified

Unit of Government	Type of Application	Status
United States Army Corps of Engineers	• Section 10 • Section 404 • Section 106	• New permit to be obtained • New permit to be obtained • Tribal coordination will be conducted by USACE
United States Fish and Wildlife Service	• Endangered Species Act Section 7 consultation (required for Section 404/Section 10 process)	• To be completed
Minnesota Pollution Control Agency	• NPDES/SDS Construction Stormwater Permit, if needed • Air Permit • Section 401 Water Quality Certification (required for Section 404/10 process) • Individual Stormwater Permit MN0001309 • Spill Prevention Control and Countermeasures Plan	• Existing permit to be modified • Existing permit to be modified, if needed • Existing permit to be modified • Existing permit to be modified • Existing plan to be modified
Minnesota Department of Natural Resources	• Work in Public Water • Mississippi River Corridor Critical Area (MRCCA) – Land Alteration Permit • MRCCA – Vegetation Clearing Permit	• New permit to be obtained • New permit to be obtained. • New permit to be obtained.
State Historic Preservation Office	• Section 106 Concurrence (required for Section 404/10 process)	• New permit to be obtained
City of Cottage Grove	• Mining Permit	• New approval within the existing permit
South Washington Watershed District	• Wetland Conservation Act	• New permit to be obtained

8 Proposer: Aggregate Industries - MWR, Inc.

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9 Responsible Government Unit (RGU): City of Cottage Grove, MN

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Aggregate Industries Nelson Mine Backwater Project

Prepared for

Aggregate Industries – MWR, Inc.

February 2022

Scoping Environmental Assessment Worksheet

Aggregate Industries – MWR, Inc.

Nelson Mine Backwater Project

February 2022

Contents

1. Project Title 1
2. Proposer 1
3. RGU 1
4. Reason for EAW Preparation 2
5. Project Location 2
6. Project Description 3
7. Cover Types 10
8. Permits and Approvals Required 10
9. Land Use 11
10. Geology, Soils and Topography/Land Forms 15
11. Water Resources 17
12. Contamination/Hazardous Materials/Wastes 22
13. Fish, Wildlife, Plant Communities, and Sensitive Ecological Resources (Rare Features) 24
14. Historic Properties 33
15. Visual 35
16. Air 36
17. Noise 37
18. Transportation 38
19. Cumulative Potential Effects 39
20. Other Potential Environmental Effects 41

List of Tables

Table 1	Project Public Land System (PLS) Location Summary	2
Table 2	Global Positioning System (GPS) Coordinates and Tax Parcel Numbers	3
Table 3	Project Magnitude Summary	9
Table 4	Summary of Cover Types (in acres)	10
Table 5	Permits and Approvals to be Required or Modified	11
Table 6	Soils within Proposed Project Area	16
Table 7	MDNR Natural Heritage Information System Database Records within One Mile	28
Table 8	Historic and Archaeological Resources Located on Grey Cloud Island	34

List of Appendices

Appendix A	U.S. Fish and Wildlife Service IPaC Species List
Appendix B	References
Appendix C	Figures

List of Figures in Appendix C

Figure 1	Project Location Map
Figure 2	USGS 7.5 Minute Quad Map
Figure 3	Existing Facility Overview
Figure 4	Historic Aerial Overview
Figure 5	Project Overview Map
Figure 6	Mining Progression
Figure 7	Landcover
Figure 8	Current and Future Land Use
Figure 9	Cottage Grove Zoning
Figure 10	FEMA Floodplain
Figure 11	Water Resources
Figure 12	MPCA What's in my Neighborhood
Figure 13	Sensitive Ecological Resources

Abbreviations

AMSL	Above Mean Sea Level
Aggregate Industries	Aggregate Industries – MWR, Inc.
BMPs	Best Management Practices
City	City of Cottage Grove
EAW	Environmental Assessment Worksheet
ECS	Ecological Classification System
EIS	Environmental Impact Statement
EMS	Environmental Management System
EQB	Environmental Quality Board
FEMA	Federal Emergency Management Agency
GPS	Global Positioning System
HUC	Hydrologic Unit Code
IPaC	Information for Planning and Conservation
MDH	Minnesota Department of Health
MDNR	Minnesota Department of Natural Resources
MNRRA	Mississippi National River and Recreational Area
MPCA	Minnesota Pollution Control Agency
MRCCA	Mississippi River Corridor Critical Area
NHIS	Natural Heritage Information System
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NRCS	Natural Resource Conservation Service
PLS	Public Land System
PRCV	Public River Corridor View
RGU	Responsible Government Unit
ROS	Rural and Open Spaces
SHPO	State Historic Preservation Office
SSTS	Subsurface Sewage Treatment Systems
SWPPP	Storm Water Pollution Prevention Plan
UPCI	United Pentecostal Church International
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey

July 2013 version

ENVIRONMENTAL ASSESSMENT WORKSHEET

This Environmental Assessment Worksheet (EAW) form and EAW Guidelines are available at the Environmental Quality Board's website at: http://www.eqb.state.mn.us/EnvRevGuidanceDocuments.htm. The EAW form provides information about a project that may have the potential for significant environmental effects. The EAW Guidelines provide additional detail and resources for completing the EAW form.

Cumulative potential effects can either be addressed under each applicable EAW Item or can be addresses collectively under EAW Item 19.

Note to reviewers: Comments must be submitted to the Responsible Government Unit (RGU) during the 30-day comment period following notice of the EAW in the *EQB Monitor*. Comments should address the accuracy and completeness of information, potential impacts that warrant further investigation and the need for an EIS.

1. Project Title

Aggregate Industries - MWR, Inc. – Nelson Mine Backwater Project

2. Proposer

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3. RGU

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4. Reason for EAW Preparation

Required:	Discretionary:
X EIS Scoping	☐ Citizen petition
☐ Mandatory EAW	☐ RGU discretion
	☐ Proposer initiated

If EAW or EIS is mandatory give EQB rule category subpart number(s) and name(s):

4410.4400, Subpart 9B – Nonmetallic Mineral Mining; for development of a facility for the extraction or mining of sand, gravel, stone, or other nonmetallic minerals other than peat, which will excavate 160 acres of land or more to a mean depth of 10 feet or more during its existence.

4410.4400, Subpart 9C – Nonmetallic Mineral Mining; for development of a facility for the extraction or mining of sand, gravel, stone, or other nonmetallic minerals other than peat, which will excavate 40 or more acres of forested or other naturally vegetated land in a sensitive shoreland area or 80 or more acres of forested or other naturally vegetated land in a non- sensitive shoreland area.

5. Project Location

- County: Washington
- City/Township: City of Cottage Grove
- PLS Location (¼, ¼, Section, Township, Range): See **Table 1**.

Table 1 Project Public Land System (PLS) Location Summary

1/4	1/4	Section	Township	Range
NW	NW	4	26	21
-	NW	5	26	21
-	NE	5	26	21
NE	NW	6	26	21
NW	NE	6	26	21
NE	NE	6	26	21
NE	SE	31	27	21
SE	SE	31	27	21
SW	SE	32	27	21
SE	SE	32	27	21
SW	SW	33	27	31

- Watershed (81 major watershed scale): Mississippi River – Twin Cities (HUC4 Name: Upper Mississippi)

 GPS Coordinates: See **Table 2**.

 Tax Parcel Numbers: See **Table 2**.

Table 2 Global Positioning System (GPS) Coordinates and Tax Parcel Numbers

Tax Parcel Number	Latitude	Longitude
163-3302721330001	44.77758488500	-92.94198198520
163-3202721440002	44.77666821470	-92.94836040730
163-3202721430001	44.77714686750	-92.95255275260
163-3102721420001	44.77863124800	-92.97066352210
163-3102721410003	44.78087795230	-92.96755047910
163-0602621210001	44.77510394650	-92.97694966380
163-0602621120001	44.77493285630	-92.97239140150
163-0602621110001	44.77421830740	-92.96702399980
163-0502621240001	44.76935765570	-92.95648125930
163-0502621230001	44.77128750990	-92.96338012630
163-0502621210001	44.77471109220	-92.95920326810
163-0502621140001	44.77055634310	-92.94568101560
163-0502621130001	44.76873295830	-92.95219714840
163-0502621110001	44.77494164470	-92.95148852920
163-0402621220001	44.77172643260	-92.94397069840

At a minimum attach each of the following to the EAW:

 County map showing the general location of the project (**Figure 1, Appendix C**)

 U.S. Geological Survey 7.5 minute, 1:24,000 scale map indicating project boundaries (photocopy acceptable) (**Figure 2, Appendix C**)

 Site plans showing all significant project and natural features. Pre-construction site plan and post-construction site plan. (**Figures 3 through13, Appendix C**)

6. Project Description

a. Provide the brief project summary to be published in the *EQB Monitor*, (approximately 50 words).

Aggregate Industries – MWR, Inc. ("Aggregate Industries") is proposing to move its mine area, which supports the existing Nelson Sand & Gravel Mine Facility, onto an approximately 395-acre

parcel of privately owned land that the company leases in the backwaters of the Mississippi River. Although it leases the mining area, Aggregate Industries owns the land where the processing plant infrastructure is located. The planned shift in mine area would take place across an approximately 20 to 25-year period.

b. Give a complete description of the proposed project and related new construction, including infrastructure needs. If the project is an expansion include a description of the existing facility. Emphasize: 1) construction, operation methods and features that will cause physical manipulation of the environment or will produce wastes, 2) modifications to existing equipment or industrial processes, 3) significant demolition, removal, or remodeling of existing structures, and 4) timing and duration of construction activities.

Proposed Project Overview

The existing Nelson Sand & Gravel Mine Facility will exhaust its current minable reserves in approximately five years given the current rate of mining, market trends, and geologic variations at the site. Aggregate Industries is proposing to move its mine area, which supports the existing Nelson Sand & Gravel Mine Facility, to mine additional reserves on a privately owned parcel of land in the backwaters area of the Mississippi River (proposed Project). These reserves would be used to supply construction-quality aggregate to the Twin Cities construction industry. Current mining means and methods at the existing plant would be employed to mine the reserves. Processing techniques, processing equipment, equipment run rates, hours of operation and staffing at the existing Sand & Gravel Mine Facility would all remain unchanged. In addition, the current river-based transportation system would remain unchanged; assuming consistent market conditions, barge capacities and annual trips are expected to remain the same. Barges would continue to be loaded at the existing dock wall/load-out location of the Nelson Sand & Gravel Mine Facility using the same equipment (**Figure 3**).

Project Background and Existing Operations Overview

The proposed Project would change the location where active mining occurs; no changes in production, processing facility, or operations are proposed. Aggregate Industries has been mining at the existing Nelson Sand & Gravel Mine Facility since the early 1950s when the J.L. Shiely Company (now known as Aggregate Industries) entered into a lease agreement with the private landowner. A form of this lease agreement remains in place between the private landowner and Aggregate Industries today.

The proposed Project was formerly upland that became inundated by the impoundment created with the construction of Lock and Dam #2 in 1930. This impounded area, upstream of Lock and Dam #1 is known as Pool 2 of the Mississippi River (**Figure 4**). The approximately 395-acre proposed Project area analyzed in this document is bound on the north by Lower Grey Cloud Island and on the south by barrier islands created by the U.S. Army Corps of Engineers (USACE)

to deposit dredge spoils (**Figure 5**). Since 1995, a twin-clamshell, floating dredge unit has been used to excavate raw aggregate materials from a created lake located on Lower Grey Cloud Island (**Figure 3**). This floating dredge unit is approximately 100 feet by 100 feet in size, 60 feet tall, and weighs approximately 500 tons. The floating dredge unit is used to reach aggregate reserves below the water surface and can mine up to 1,200 tons of material per hour, reaching up to 200 feet below the water surface. Material is dewatered in the dredge unit where it is also initially crushed into pieces of aggregate smaller than 6-inches in size. Excess sand is then either screened and pumped to the south shoreline of the created lake or it is pumped to the deepest part of the created lake as part of initial reclamation.

Once excavated, dewatered, and initially crushed by the floating dredge unit, the mined aggregate is transported by conveyor to the processing plant located in the southwest portion of the Nelson Sand & Gravel Mine Facility (**Figure 3**). Processing operations include further crushing, washing, sorting, and stockpiling of aggregate materials by size. Upon processing completion, aggregate products are loaded onto barges or trucks for distribution. The majority of the aggregate is transported on the Mississippi River by barge upstream to Aggregate Industries' distribution yard in St. Paul. A single barge can carry between 1,200 and 1,300 tons of aggregate. In any given year, Aggregate Industries transports approximately 600,000 to 750,000 tons of aggregate by barge to the distribution yard, resulting in approximately 500 to 625 barge trips annually. Up to 20,000 tons of aggregate per year is transported off-site by truck; a truck can typically carry 25 tons of gravel. One barge is equivalent to approximately 45 trucks. Over an entire barging season, the 500 to 625 barge trips are equivalent to 20,000 to 30,000 truck trips. The amount of aggregate transported annually depends on the demand of projects in the greater Twin Cities metro area.

Under current operations, reclamation typically occurs on an annual basis. In recent years, reclamation has consisted of creating a large peninsula within the existing created lake, as well as slope and shore stabilization/establishment and revegetation. In addition, waste sand has been placed in the northeast portion of the site, directly north of the existing conveyor system, to gradually slope the site to the southwest.

Since the floating dredge unit was put in place in 1995, the City of Cottage Grove has granted a variance to the mining ordinance requirement limiting mining operation hours, which has allowed Aggregate Industries to operate 24-hours per day, seven days per week. The variance relating to the hours of operation is reviewed on an annual basis by the City.

At the current rate of mining and market trends and geologic variations at the site, Aggregate Industries estimates that mining will continue for another approximately five years at the existing Nelson Sand & Gravel Mine Facility. The expansion to the new mining area would not take place until mining has been completed within the current mining area. At the time that operations shift to the proposed Project area, the floating dredge unit would be relocated from

its present location in the created lake to the proposed Project area. Processing of the extracted aggregate within the proposed Project area would occur at approximately the same rate, extending and using the same process and processing equipment. As such, the proposed Project would retain the same number of employees at the facility (there are currently 18 employees) and the same rates of barge and truck traffic.

The existing Nelson Sand & Gravel Mine Facility has provided construction aggregate materials for several projects during its existence, including providing sand for ready-mix concrete operations. Notable recent construction projects the facility has supplied aggregate and/or sand to include: the St. Croix Crossing; Interstate 494/694 Concrete Paving Project; Ayd Mill Road Improvement Project; Abbott NW Transportation Hub Target Field Station in Minneapolis; Eagle Point Elementary School in Oakdale; Woodbury Middle School in Woodbury; Urban Academy in St. Paul; and construction projects at Regions Hospital and Gillette Children's Hospital in St Paul. As identified, a number of construction projects in the Twin Cities and surrounding areas have used aggregate sourced from the Nelson Sand & Gravel Mine Facility.

As with the existing Nelson Sand & Gravel Mine Facility, the aggregate resources in the proposed Project area would contribute to meeting the demand for construction aggregate in the Twin Cities metropolitan market for another 20 to 25 years. The aggregate resources would support construction of residential developments and commercial infrastructure projects such as bridges, roads, schools, and other buildings. Aggregates are a major component in the ready-mix concrete and asphalt production processes.

Mining Methods

Mining would occur in an approximately 230-acre area (proposed mining area) within the proposed Project area using mining practices similar to those currently used at the existing Nelson Sand & Gravel Mine Facility. A floating dredge unit would be deployed into the proposed mining area by excavating a temporary channel approximately 150 feet wide, 400 feet long, and 30 feet deep from the existing mine pit lake, through upland portions of Lower Grey Cloud Island, and into the proposed mining area. The temporary channel would fill with water from adjacent areas to allow the floating dredge unit to be transferred from the currently mined area to the proposed mining area. Immediately following the floating dredge unit relocation, most of the temporary channel would be substantially closed, backfilled, and restored.

An approximately 150-foot by 150-foot (22,500 square foot or 0.5-acre) area of the southern portion of the temporary dredge channel would remain in place to be used as a winter slip for the floating dredge unit. As mining progresses through the proposed mining area, the original winter slip area would be reclaimed, and additional slips would be created closer to the active mining areas. Up to two additional winter slips may be required; however, no more than one slip would be used at a time. At the end of each season of operation, the floating dredge unit would

be moved from the proposed mining area into a winter slip. The proposed Project's annual operating seasons are expected to typically begin in early March and last through mid-November.

The floating dredge unit would use clam shell buckets to extract raw aggregate reserves from as deep as 200 feet within the proposed mining area. A floating conveyor system would extend from the floating dredge unit to the mainland. In addition to transporting mined aggregate from the proposed mining area to the plant, the conveyors would also house the cables needed to provide electricity to power the floating dredge unit. The floating conveyor system would connect to landing points, each approximately 1-acre in size, to connect the floating conveyors to the existing land-based conveyor system within the boundaries of the existing facility. Additional footings may need to be installed to support the conveyor system as it makes this transition to upland.

As mining continues, an increasingly large basin would be created. Barrier dikes would be constructed between the first and third of the USACE-created barrier islands to protect the active mining area from flood debris, ice, and excessive sedimentation (**Figure 5**). Hydrologic analyses previously completed for the proposed Project indicated that deepening the basin would provide enough increased storage capacity such that construction of the barrier dikes would not cause a change in flood elevations upstream. This analysis would be refined as part of Project permitting.

Material Processing

Material processing would rely on the existing Nelson Sand & Gravel Mine Facility and processing plant infrastructure.

Materials mined as part of the proposed Project would be dewatered within the dredge unit itself as it is brought to the surface and transported by conveyor to the existing Nelson Sand & Gravel Mine Facility's main processing plant where it would be crushed, screened, and washed before being loaded onto barges for transport to the marketplace in a manner similar to existing site operations. In the main processing plant, mined materials would be transferred through a heavy steel screen to separate larger rocks from smaller rocks and sand. The larger rocks would be periodically transferred into a primary crusher, where they would be reduced in size. Surplus sand, which comprises approximately half of the aggregate reserve in the proposed mining area, would be separated from other sand and gravel materials as it passes through a series of vibrating screens. This surplus sand would be used for the construction of the barrier dikes and also in the reclamation process, as described below in the Reclamation section.

The proposed Project seeks to permit an additional 21 million tons of aggregate reserves

located in the backwaters of the Mississippi River. At the current annual production rate of 650,000 to 700,000 tons of aggregate materials per year, the additional reserves would provide 20 to 25 years of reserve life. These annual volumes are dependent upon market demand in any given year. Current mining means and methods at the Nelson Sand & Gravel Mine Facility would be employed to mine the newly permitted reserves. Processing techniques, processing equipment, equipment run rates, hours of operation, and facility staffing at the existing Nelson Sand & Gravel Mine Facility would all remain unchanged. In addition, the current river-based transportation system would remain unchanged; assuming consistent market conditions, barge capacities and annual trips are expected to remain the same. Barges would continue to be loaded at the existing dock wall location of the Nelson Sand & Gravel Mine Facility using the same equipment.

Project Phasing

The proposed mining area would be developed in four phases (**Figure 6**). The floating dredge unit would be moved to the proposed mining area and the conveyor network would be constructed prior to the initiation of mining. Mining would begin in the western portion of the proposed mining area within an approximately 35-acre area and would last up to three years. From there, mining would extend to the east in three subsequent phases: an approximately 55-acre area in years 4 through 8; an approximately 65-acre area in years 9 through 13; and an approximately 75-acre area in years 14 through 20.

Reclamation

Reclamation would occur in phases, with reclamation of a mined-out area occurring simultaneously with the commencement of mining a new phase of the proposed Project area. It is anticipated that reclamation would occur approximately five to ten years after beginning a mine phase. Reclamation would consist of using surplus sand to backfill underwater excavation areas near the shoreline of the mainland and adjacent to the barrier islands to stabilize areas and create underwater slopes that are stable, resilient to erosion, and safe. The central portion of the proposed mining area would be filled with excess sand generated and stockpiled from aggregate processing, resulting in an approximately 100-foot-deep waterbody.

c. Project magnitude:

Table 3 provides a summary of the proposed Project's magnitude.

Table 3 Project Magnitude Summary

Component	Applicability
Total project acreage	395
Linear project length	N/A
Number and type of residential units	N/A
Commercial building area (in square feet)	N/A
Industrial building area (in square feet)	N/A
Institutional building area (in square feet)	N/A
Other uses—specify (in square feet)	N/A
Structure height(s)	N/A

d. Explain the project purpose; if the project will be carried out by a governmental unit, explain the need for the project and identify its beneficiaries.

The existing Nelson Sand & Gravel Mine Facility will exhaust its current minable reserves in approximately five years given the current rate of mining, market trends, and geologic variations at the site. The proposed Project seeks to move its mine area, which supports the existing Nelson Sand & Gravel Mine Facility, to mine additional reserves on a privately owned parcel of land in the backwaters area of the Mississippi River. The proposed Project would provide a continued local supply of construction-quality aggregate to the Twin Cities and other local markets for an additional 20 to 25 years. Project beneficiaries include proponents of projects that require aggregate materials, such as roadway and other infrastructure projects, by providing a local aggregate source. Aggregate Industries also benefits from the proposed Project by continuing to mine adjacent to its existing operations which allows for continued use of existing processing and material transport facilities rather than construction of new facilities at a new location.

e. Are future stages of this development including development on any other property planned or likely to happen? ☐ Yes **X** No

If yes, briefly describe future stages, relationship to present project, timeline and plans for environmental review.

f. Is this project a subsequent stage of an earlier project? **X** Yes ☐ No

If yes, briefly describe the past development, timeline, and any past environmental review.

Aggregate Industries has been mining at the existing Nelson Sand & Gravel Mine Facility since the early 1950s. The current operation has been in place since 1995 using a twin-clamshell, floating dredge unit to excavate raw aggregate materials from a created lake located on Lower Grey Cloud Island. No past environmental review for the existing mine has been completed. A

Scoping EAW for the proposed Project was initiated in 2007. A Scoping Decision Document was published in April 2008, leading to the preparation of a Draft Environmental Impact Statement (EIS). A Draft EIS was developed to the point where a preliminary version was made available to participants of the proposed Project's Technical Advisory Committee. Aggregate Industries made a business decision to pause the proposed Project in Fall 2010 before the Draft EIS was published for public review and comment. This Scoping EAW, which evaluates the same proposed Project scope as the Draft EIS previously reviewed by the Technical Advisory Committee, is being prepared to re-initiate the proposed Project's EIS process.

7. Cover Types

Estimate the acreage of the site with each of the following cover types before and after development:

An assessment of land cover types was estimated using Geographic Information System (GIS) based on 2015 land cover data from the University of Minnesota [reference (1)]; the results are summarized in **Table 4.**

Table 4 Summary of Cover Types (in acres)

Cover Type	Existing Land Cover	During Construction	After Reclamation
Industrial (Conveyors/Buildings) and Access	0.8	14.5	0.8
Forested	37.1	27.9	37.1
Wetlands/Open Water	333.3	324.5	333.3
Grassland/Shrubland	31.0	19.6	31.0
Barrier Dikes	0	8.2	0
Total Area	**394.7**	**394.7**	**394.7**

8. Permits and Approvals Required

List all known local, state, and federal permits, approvals, certifications, and financial assistance for the project. Include modifications of any existing permits, governmental review of plans and all direct and indirect forms of public financial assistance including bond guarantees, Tax Increment Financing, and infrastructure. *All of these final decisions are prohibited until all appropriate environmental review has been completed. See Minnesota Rules, Chapter 4410.3100.*

Table 5 lists the permits and approvals required for the proposed Project.

Table 5 Permits and Approvals to be Required or Modified

Unit of Government	Type of Application	Status
United States Army Corps of Engineers	• Section 10 • Section 404 • Section 106	• New permit to be obtained • New permit to be obtained • Tribal coordination will be conducted by USACE
United States Fish and Wildlife Service	• Endangered Species Act section 7 consultation (required for Section 404/Section 10 process)	• To be completed
Minnesota Pollution Control Agency	• NPDES/SDS Construction Stormwater Permit, if needed • Air Permit • Section 401 Water Quality Certification (required for Section 404/10 process) • Individual Stormwater Permit MN0001309 • Spill Prevention Control and Countermeasures Plan	• Existing permit to be modified • Existing permit to be modified, if needed • Existing permit to be modified • Existing permit to be modified • Existing plan to be modified
Minnesota Department of Natural Resources	• Work in Public Water • Mississippi River Corridor Critical Area (MRCCA) – Land Alteration Permit • MRCCA – Vegetation Clearing Permit	• New permit to be obtained • New permit to be obtained. • New permit to be obtained.
State Historic Preservation Office	• Section 106 Concurrence (required for Section 404/10 process)	• New permit to be obtained
City of Cottage Grove	• Mining Permit	• Existing permit to be modified
South Washington Watershed District	• Wetland Conservation Act	• New permit to be obtained

Cumulative potential effects may be considered and addressed in response to individual EAW Item Nos. 9-18, or the RGU can address all cumulative potential effects in response to EAW Item No. 19. If addressing cumulative effect under individual items, make sure to include information requested in EAW Item No. 19.

All potential cumulative impacts are discussed in EAW Item 19 (Cumulative Potential Effects).

9. Land Use

a. Describe:

i. Existing land use of the site as well as areas adjacent to and near the site, including parks, trails, prime or unique farmlands.

Prior to the installation of Lock and Dam #2 in 1930, the proposed Project area was primarily used as agricultural pastureland. After construction of this lock and dam the majority of the proposed Project area was flooded and now is covered by open water that serves as a

backwaters area of the Mississippi River.

The adjacent land use includes open water to the south with forested and industrial land use to the north (**Figure 7**). The existing Nelson Sand & Gravel Mine Facility is located to the north and northwest of the proposed Project area. The Minnesota District of the United Pentecostal Church International's (UPCI's) Camp Galilee is situated to the north of the proposed Project area. In addition, two residences owned by Aggregate Industries are located immediately north of the proposed Project area, and a third privately owned residence is located on the eastern most portion of island, north of the proposed Project area. Land use south of the proposed Project area includes Spring Lake and the main channel of the Mississippi River. Spring Lake Regional Park is located on the opposite side of the river approximately 0.40 miles southeast of the proposed Project area.

ii. Plans. Describe planned land use as identified in comprehensive plan (if available) and any other applicable plan for land use, water, or resources management by a local, regional, state, or federal agency.

According to the *Cottage Grove 2040 Comprehensive Plan* [reference (2)], current land use in the proposed Project area is classified as water, undeveloped, extractive, and park, recreational or preserve (**Figure 8**). The 2040 Comprehensive Plan also designates future land use categories for future development. According to the Plan, the proposed Project area is classified under the transitional planning, open water, and parks/open space future land use categories (**Figure 8**). Areas designated under the Transitional Planning category need additional planning efforts prior to establishing future land use designations. Washington County and the City of Cottage Grove (City) developed the *Grey Cloud Island Regional Park Master Plan* to address future land use of Grey Cloud Island, which includes the proposed Project area. This plan was adopted by the Metropolitan Council in 1994.

As discussed in Chapter 9 of the Cottage Grove 2040 Comprehensive Plan, the City has prepared regulations that permit the extraction of aggregate resources. The City has established the I-4 Commercial Excavation Zoning District, which provides for the extraction of sand, gravel, and other mineral deposits or materials. The district also seeks to permit other land uses as long as they will not conflict with adjacent land uses. Finally, the City has a mining chapter which regulates the effects of environmental factors related to mining and ensures the restoration of the mined area and conformity with both the critical area and comprehensive plans.

The *Washington County 2040 Comprehensive Plan* [reference (3)] recognizes the need for aggregate mining in Washington County and notes the following goals:

- Washington County will work with landowners and local communities to reserve enough potentially productive aggregate areas from development to meet long-term regional

needs.

- Washington County has identified mineral deposits having significant economic potential and discourages encroachment of development in those areas.
- All mining is conducted in accordance with the County's mining ordinance in order to provide for orderly, economic, and safe removal and processing of sand, gravel, rock, and soil and reclamation of the mined sites.

The Washington County Comprehensive Plan incorporates the *Grey Cloud Island Regional Park Master Plan* [reference (4)] in the *Recreation and Open Space System Plan*. The Park Master Plan identifies the importance of mining and anticipates the compatibility of mining and park development as follows:

- Manage future extension of gravel mining to balance economic benefits, environmental impact, and its reuse potential.
- Pursue active re-vegetation of mined areas with wood species as a complement to future reuse.
- Cooperate in developing mining operations and reclamation plans consistent with future reuse potential and park development.
- Preserve the aesthetic and physical integrity of the Lower [Grey Cloud] Island shoreline intact without physical interruption.
- Maintain the Lower Island barge terminal operation through completion of mining activities.

The National Park Service (NPS) Mississippi National River and Recreational Area (MNRRA) *Comprehensive Management Plan* outlines various goals, policies, and actions for management of development and uses in the river corridor [reference (5)]. Several goals and policies support the proposed mining and barging activities:

- The river system will continue to provide commercial navigation to and from the region including larger local movement of sand, gravel, and petroleum products.
- The Plan recognizes the Mississippi River as a working river particularly for movement of agricultural, construction, and energy commodities and to balance the needs of commercial and recreational river traffic.
- The Plan relies on local jurisdictions to determine uses and development consistent with MNRRA objectives.

The *Mississippi River Corridor Critical Area* (MRCCA) program is a state, regional, and local government program that provides coordinated land planning and regulation for the 72-mile stretch of the Mississippi River [reference (6)]. The City is responsible for administering MRCCA

plans and zoning regulations within the proposed Project area and is currently in the process of developing its ordinance for regulating the MRCCA area.

iii. Zoning, including special districts or overlays such as shoreland, floodplain, wild and scenic rivers, critical area, agricultural preserves, etc.

The proposed Project area is located within the City's Commercial Excavation District (**Figure 9**). This district allows for the extraction of sand, gravel, and other mineral deposits or materials. As noted above in EAW Item #8, Aggregate Industries' Mining Permit would be modified for the proposed Project. The area directly north of the proposed Project area is zoned as rural residential. There are two residences owned by Aggregate Industries and a third residence owned by a private party located in this area. Additionally, the Minnesota District UPCI operates Camp Galilee, a campground and retreat facility nearby.

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (**Figure 10**) depicts the proposed Project area as primarily located within the Mississippi River floodway and 100-year floodplain. A small portion of the proposed Project area is located within the 500-year floodplain.

The proposed Project area is also located in MRCCA-designated Shore Impact Zone, Natural Drainageway, Bluff Impact Zone, and Rural and Open Spaces (ROS) District. This district is characterized by rural and low-density development patterns and land uses. It includes land that is riparian or visible from the river as well as large, undeveloped tracts of high ecological and scenic value, floodplain, and undeveloped islands. The City is currently in the process of updating their MRCCA zoning regulations to be consistent with MRCCA rules adopted in 2017; these rules establish new districts and standards.

There are no designated wild and scenic rivers or agricultural preserves in the proposed Project area.

b. Discuss the project's compatibility with nearby land uses, zoning, and plans listed in Item 9a above, concentrating on implications for environmental effects.

The proposed Project would be compatible with the existing zoning and comprehensive plans previously described in EAW Item 9aii. The identified comprehensive plans acknowledge the importance and value of aggregate mining to the local economy. As mentioned in EAW Item 9aii, the proposed Project area is zoned for commercial excavation and is located directly adjacent to the existing Nelson Sand & Gravel Mine Facility.

The proposed Project is less compatible with the adjacent rural residential land use. However, this land use is already adjacent to an existing mining operation (the Nelson Sand & Gravel Mine Facility). Given the separation distances and the noise and dust control measures currently

employed, the impact on the adjacent land uses is proposed to remain similar to that experienced under current conditions. Additional information regarding Project-generated noise and dust can be found in EAW Items 16 and 17 below.

c. Identify measures incorporated into the proposed project to mitigate any potential incompatibility as discussed in Item 9b above.

The proposed Project would be compatible with the City's and County's comprehensive plans. Aggregate Industries would work with local, state, and federal regulators during the Project permitting phase to identify minimization measures to mitigate Project effects on adjacent land use, as appropriate.

10. Geology, Soils and Topography/Land Forms

a. Geology – Describe the geology underlying the project area and identify and map any susceptible geologic features such as sinkholes, shallow limestone formations, unconfined/shallow aquifers, or karst conditions. Discuss any limitations of these features for the project and any effects the project could have on these features. Identify any project designs or mitigation measures to address effects to geologic features.

The bedrock formations in the proposed Project area include the St. Lawrence and Franconia Formations [reference (7)]. The St. Lawrence Formation consists of dolomitic shale and siltstone. The Franconia Formation is composed of very fine-grained glauconitic sandstone in southern Washington County.

Surficial geology in the proposed Project area consists of lower terraces, which contain coarse sand and gravel, that are capped in places by as much as 10 feet of loamy sand [reference (8)]. Much of the sand and gravel deposit, both currently mined at the existing Nelson Sand & Gravel Mine and to be mined in the proposed Project area, are a result of deposition from Glacial River Warren that carried meltwater from the northwest portion of Minnesota. No susceptible geologic features are known to occur in the vicinity of the proposed Project area.

As summarized above in EAW Item 6, an extensive sand and gravel deposit would be mined across the 230-acre proposed mining area (**Figure 5**). Ultimately, mining would reach a depth of up to 200 feet and up to 21 million tons of aggregate would be mined across the 20- to 25-year life of the proposed Project. As summarized above in EAW Item 6, reclamation would occur in phases, with reclamation of a mined-out area occurring simultaneously with the commencement of mining a new phase of the proposed Project area. Reclamation would consist of backfilling excavated underwater areas adjacent to the shoreline of the mainland and adjacent to the barrier islands to create underwater slopes that are stable, resilient to erosion, and safe. The central portion of the proposed mining area would be filled with excess sand generated and stockpiled

from aggregate processing, resulting in an approximately 100-foot-deep waterbody.

b. Soils and topography – Describe the soils on the site, giving NRCS (SCS) classifications and descriptions, including limitations of soils. Describe topography, any special site conditions relating to erosion potential, soil stability or other soils limitations, such as steep slopes, highly permeable soils. Provide estimated volume and acreage of soil excavation and/or grading. Discuss impacts from project activities (distinguish between construction and operational activities) related to soils and topography. Identify measures during and after project construction to address soil limitations including stabilization, soil corrections or other measures. Erosion/sedimentation control related to stormwater runoff should be addressed in response to Item 11.b.ii.

The barrier islands at the southern end of the proposed Project area range from 648 to 746 feet above mean sea level (AMSL). In the proposed mining area, depth to channel bottom below the water surface ranges from a few feet to 10 feet deep.

The U.S. Department of Agriculture (USDA) - Natural Resource Conservation Service (NRCS) Soil Survey of Washington County was reviewed to identify the soils within the proposed Project area [reference (9)]. **Table 6** identifies the soil map units within the proposed Project area. The dominant soil map unit in the proposed mining area is water, with the barrier islands along the southern border consisting of Algansee loamy sand.

Table 6 Soils within Proposed Project Area

Soil Map Unit	Acres in Proposed Project Area
Water	284.9
Algansee loamy sand	36.7
Hubbard loamy sand, 1-6% slopes	34.9
Chaska silt loam	20.4
Udifluvents	15.3
Sparta loamy sand, 0-2% slopes	2.5
Total acres	**394.7**

The mining operations would be conducted from a floating dredge to extract underwater reserves. No surface soils would be disturbed by the actual underwater mining. However, the floating conveyor system, as discussed in EAW Item 6, would require the construction of landing points (each approximately 1 acre in size) from the proposed mining area to connect to the existing land-based conveyor system. In addition, excavation would be required for cutting a temporary channel to move the floating dredge into the proposed mining area and for

developing winter slips. In addition, small amounts of soil disturbance would be required for installation of footings in upland areas to support the conveyor system. Applicable best management practices (BMPs), such as silt fencing, would be employed to minimize erosion from these areas. The topsoil from these activities would be stored on upland in small berms and would be used for reclaiming the landing points and barge slips once they are no longer needed. Following completion of the proposed Project, upland areas would be re-graded and seeded.

11. Water Resources

a. Describe surface water and groundwater features on or near the site in a.i. and a.ii. below.

   i. Surface water – lakes, streams, wetlands, intermittent channels, and county/judicial ditches. Include any special designations such as public waters, trout stream/lake, wildlife lakes, migratory waterfowl feeding/resting lake, and outstanding resource value water. Include water quality impairments or special designations listed on the current MPCA 303d Impaired Waters List that are within 1 mile of the project. Include DNR Public Waters Inventory number(s), if any.

The proposed Project area is located within the backwaters of the Mississippi River between Grey Cloud Slough and Spring Lake (**Figure 11**). The Mississippi River and backwaters area account for approximately 283.3 acres, or roughly 71 percent, of the proposed Project area. The Minnesota Department of Natural Resources (MDNR) Public Water Inventory defines this area as part of the U.S. Lock and Dam #2 Pool (main channel). The segment of the Mississippi River from Upper St. Anthony Falls to the St. Croix River, in which the proposed Project is located, is listed as impaired for aquatic consumption, aquatic life, and aquatic recreation. There are no trout streams, wildlife lakes, migratory waterfowl feeding/resting lakes, or outstanding resource value waters within or adjacent to the proposed Project area.

According to the Minnesota Wetland Inventory Data, the proposed Project area includes 334.7 acres of wetlands. The majority of the wetlands (292.3 acres; approximately 87% of total wetlands within the Project area) are classified as riverine, shallow open water wetlands (R2UB/US/AB). These wetlands are typical of those found in the backwaters of the Mississippi River. The second most dominant wetland type is freshwater forested wetlands (36.3 acres; approximately 11% of the wetlands; PFO1A). The remaining wetland areas include shallow open water and shrub wetlands (3.2 acres; approximately 1% of the wetlands; PSS1A/C) and freshwater emergent wetlands (2.9 acres; approximately 1% of the wetlands; PEM1A/C).

   ii. Groundwater – aquifers, springs, seeps. Include: 1) depth to groundwater; 2) if project is within a MDH wellhead protection area; 3) identification of any onsite and/or nearby wells, including unique numbers and well logs if available. If there are no wells known

on site or nearby, explain the methodology used to determine this.

The proposed Project area is located partially within the Mississippi River, which is a major regional discharge zone for groundwater. Groundwater in Washington County generally flows in an easterly direction towards the Mississippi River. Most of the proposed Project area consists of open water, and the adjacent upland locations have a shallow depth to groundwater. According to the Minnesota Hydrology Atlas [reference (10)], the depth to water table in the proposed Project area ranges from 0 to 20 feet.

There are no Minnesota Department of Health (MDH) Wellhead Protection Areas within the proposed Project area. According to the MDH County Well index [reference (11)], no groundwater wells are located within the proposed Project area. The closest groundwater well (Well ID 257677) is located approximately 180 feet north of the proposed Project area. This well was installed in January 2014 and is currently in use.

b. Describe effects from project activities on water resources and measures to minimize or mitigate the effects in Item b.i. through Item b.iv. below.

   i. Wastewater – For each of the following, describe the sources, quantities and composition of all sanitary, municipal/domestic, and industrial wastewater produced or treated at the site.

      1) If the wastewater discharge is to a publicly owned treatment facility, identify any pretreatment measures and the ability of the facility to handle the added water and waste loadings, including any effects on, or required expansion of, municipal wastewater infrastructure.

      2) If the wastewater discharge is to a subsurface sewage treatment systems (SSTS) describe the system used, the design flow, and suitability of site conditions for such a system.

      3) If the wastewater discharge is to surface water, identify the wastewater treatment methods and identify discharge points and proposed effluent limitations to mitigate impacts. Discuss any effects to surface or groundwater from wastewater discharges.

The proposed Project would not produce any sanitary, municipal/domestic, or industrial wastewater beyond those currently produced at the existing Nelson Sand & Gravel Mine Facility. The existing Nelson Sand & Gravel Mine Facility has a septic system and wells; there are no city sewer connections or discharge. As described in the Project Description (EAW Item 6), there will be no change to the wastewater system from the existing project to the proposed Project.

   ii. Stormwater – Describe the quantity and quality of stormwater runoff at the site prior to

and post construction. Include the routes and receiving water bodies for runoff from the site (major downstream water bodies as well as the immediate receiving waters). Discuss any environmental effects from stormwater discharges. Describe stormwater pollution prevention plans including temporary and permanent runoff controls and potential BMP site locations to manage or treat stormwater runoff. Identify specific erosion control, sedimentation control or stabilization measures to address soil limitations during and after project construction.

The Mississippi River would be the receiving water for stormwater runoff from any of the proposed Project activities.

During construction, impacts to uplands associated with the proposed Project would be minor and limited to the proposed conveyor area to connect the proposed mining area to the existing Nelson Mine Facility and access roads. During the construction of the conveyor landings, silt fencing and berms would be used to minimize erosion. Where practical, drainage from these areas will be directed inland and contained within the existing Nelson Sand & Gravel Mine Facility. Any proposed access roads would be less than 20 feet wide and comprised of a gravel surface. The proposed Project would not significantly increase impervious surface area or increase stormwater runoff to the Mississippi River compared to current conditions.

Aggregate Industries would use BMPs such as silt fences or straw wattles during construction to minimize potential for erosion and sediment transport into the Mississippi River. Aggregate Industries would update the existing Nelson Sand & Gravel Mine Facility Storm Water Pollution Prevention Plan (SWPPP) to incorporate the proposed Project area. Specific BMPs used for site stabilization and sediment control during project construction would be identified in the SWPPP and detailed site plans.

iii. Water appropriation – Describe if the project proposes to appropriate surface or groundwater (including dewatering). Describe the source, quantity, duration, use and purpose of the water use and if a DNR water appropriation permit is required. Describe any well abandonment. If connecting to an existing municipal water supply, identify the wells to be used as a water source and any effects on, or required expansion of, municipal water infrastructure. Discuss environmental effects from water appropriation, including an assessment of the water resources available for appropriation. Identify any measures to avoid, minimize, or mitigate environmental effects from the water appropriation.

The existing Nelson Sand & Gravel Mine Facility is currently operating under two water appropriation permits. Appropriation Permit #1967-0201 authorizes the withdrawal of up to 4.8 billion gallons of groundwater per year for dewatering at the existing sand and gravel pit.

However, there has been no water appropriated under this permit since 2004. The impact of this water appropriation on the groundwater has not been quantified, although no domestic well interference has been recorded.

Appropriation Permit #2000-6135 allows Aggregate Industries to withdraw 767.4 million gallons per year from the Mississippi River (surface water) for aggregate washing at the existing Nelson Sand & Gravel Mine Facility, located on the west side of Grey Cloud Island. Except for the small volume of water that evaporates and that clings to the washed products, most of this water is pumped back into the existing mine pit area where the fines settle out and the water percolates back into the ground. Since the groundwater level under Grey Cloud Island is a very close reflection of the river water level, no impact on the groundwater levels or groundwater quality are anticipated.

The proposed Project would not require groundwater appropriation due to its location in the Mississippi River. It is likewise not expected to require a surface water appropriation for the mining activity as the mined aggregate would be dewatered directly in the river, at the location of the floating dredge unit, with the discharge returning back to the river. Since the water would not be transported outside of the river system, a new water appropriation permit for mining would not be required, and no appropriation-related impacts to surface or groundwater are anticipated.

iv. Surface Waters

1) Wetlands – Describe any anticipated physical effects or alterations to wetland features such as draining, filling, permanent inundation, dredging and vegetative removal. Discuss direct and indirect environmental effects from physical modification of wetlands, including the anticipated effects that any proposed wetland alterations may have to the host watershed. Identify measures to avoid (e.g., available alternatives that were considered), minimize, or mitigate environmental effects to wetlands. Discuss whether any required compensatory wetland mitigation for unavoidable wetland impacts will occur in the same minor or major watershed and identify those probable locations.

Impacts on wetlands can be direct or indirect, both of which can affect the type, extent, and quality of wetlands. Direct impacts include activities such as clearing, filling, or excavating wetlands to convert them to a non-wetland or a different wetland type or altering the wetland functions and values. Indirect impacts include activities that may affect wetlands but are spatially or temporally removed from the proposed action.

During construction and operation, the proposed Project would result in unavoidable direct and indirect wetland impacts. Excavation within areas of riverine shallow open water wetlands would

result in loss of wetland as they would be converted to deep-water habitat. Construction of the barrier dikes may also result in the permanent loss of wetland from the placement of fill within the wetland boundaries. Based on National Wetland Inventory for Minnesota data it is anticipated the proposed Project would permanently impact approximately 17.7 acres of freshwater emergent wetland and 212.8 acres of open water habitat[1]. Project-related wetland impacts would require wetland mitigation.

Aggregate Industries will work with the South Washington Watershed District and USACE to further identify potential Project related wetland impacts and wetland mitigation requirements.

2) Other surface waters - Describe any anticipated physical effects or alterations to surface water features (lakes, streams, ponds, intermittent channels, county/judicial ditches) such as draining, filling, permanent inundation, dredging, diking, stream diversion, impoundment, aquatic plant removal and riparian alteration. Discuss direct and indirect environmental effects from physical modification of water features. Identify measures to avoid, minimize, or mitigate environmental effects to surface water features, including in-water Best Management Practices that are proposed to avoid or minimize turbidity/sedimentation while physically altering the water features. Discuss how the project will change the number or type of watercraft on any water body, including current and projected watercraft usage.

Direct effects to other surface waters (i.e., Mississippi River) would occur from construction of the barrier dikes during mining operations.

Barrier dikes are proposed to protect the proposed mining area from wind and wave action while minimizing sedimentation of adjacent waters. The barrier dikes would be placed between the barrier islands and Lower Grey Cloud Island (**Figure 5**) and designed such that river hydrology would not be significantly impacted. Construction of the barrier dikes would change the flow patterns, and to a lesser extent, the localized flow velocities around the existing barrier islands in the proposed mining area. The proposed mining operations are not expected to cause a reduction of flow in the main channel of the river.

After the barrier dikes are constructed, flows would increase slightly in the main channel by diverting the smaller flows that would normally flow through this backwater area. By themselves, the barrier dikes could cause an increase in flood stage. However, this impact would be offset by the material excavation associated with mining activities, which would increase the flood storage capacity of the proposed Project area. Once the mining is complete the barrier dikes could be left in-place or removed.

[1]It should be noted that acreages identified in this section differ from those included in Table 4 due to use of different data sources

Potential water quality impacts from the proposed Project are anticipated to be similar to those generated by current, adjacent mining operations and would be mainly limited to the generation of suspended solids. These suspended solids will be confined to the proposed mining area by the barrier dikes which would be placed to block flow into (and thus out of) the proposed mining area. Since very little flow would be leaving the proposed mining area, suspended solids migration would also be controlled. Silt curtains could also be used, if necessary, to further control suspended solids.

12. Contamination/Hazardous Materials/Wastes

a. Pre-project site conditions – Describe existing contamination or potential environmental hazards on or in close proximity to the project site such as soil or ground water contamination, abandoned dumps, closed landfills, existing or abandoned storage tanks, and hazardous liquid or gas pipelines. Discuss any potential environmental effects from pre-project site conditions that would be caused or exacerbated by project construction and operation. Identify measures to avoid, minimize or mitigate adverse effects from existing contamination or potential environmental hazards. Include development of a Contingency Plan or Response Action Plan.

The Minnesota Pollution Control Agency's (MPCA's) *What's in my Neighborhood* database was reviewed on April 28, 2021, to determine if sites with regulatory listings for contamination such as dumps, landfills, storage tanks, or hazardous liquids are located within a half-mile radius of the proposed Project (**Figure 12**). There are no identified sites of contamination within the proposed Project area; however, several sites are located nearby. The proposed Project is adjacent to the existing Aggregate Industries Nelson Sand & Gravel Mine Facility, which is identified in the MPCA's database due to presence of active storage tanks and an active National Pollutant Discharge Elimination System (NPDES) permit. The closest sites of contamination are located 2,350 feet from the proposed Project area. The Zieba and Morgan Residence is an active petroleum remediation from an active aboveground tank, and the Dakota County Acquisition Site is an active petroleum remediation leak from an underground tank.

b. Project related generation/storage of solid wastes – Describe solid wastes generated/stored during construction and/or operation of the project. Indicate method of disposal. Discuss potential environmental effects from solid waste handling, storage, and disposal. Identify measures to avoid, minimize or mitigate adverse effects from the generation/storage of solid waste including source reduction and recycling.

The proposed Project would generate typical office and lunchroom types of trash from staffing the floating dredge unit. The proposed Project would offer recycling options for the office and lunchroom type waste streams of glass, metal, paper, and plastic. These source reduction strategies are currently in place at the existing Nelson Sand & Gravel Mine Facility. Aggregate

Industries would continue to use the waste disposal companies under the current contracts for the existing mine.

The proposed Project would also conduct oil filter changes and routine maintenance activities on the floating dredge unit using procedures currently in effect for the existing Nelson Sand & Gravel Mine Facility.

There would be no other solid wastes generated by the proposed Project. Any future activities would be required to be completed according to strict recovery and disposal procedures prescribed in Aggregate Industries' Environmental Management System (EMS). The EMS was established to maintain compliance with federal, state, and local regulations and codes.

c. Project related use/storage of hazardous materials – Describe chemicals/hazardous materials used/stored during construction and/or operation of the project including method of storage. Indicate the number, location, and size of any above or below ground tanks to store petroleum or other materials. Discuss potential environmental effects from accidental spill or release of hazardous materials. Identify measures to avoid, minimize or mitigate adverse effects from the use/storage of chemicals/hazardous materials including source reduction and recycling. Include development of a spill prevention plan.

Current mining means and methods at the existing plant would be employed to mine the reserves for the proposed Project. Processing techniques, processing equipment, equipment run rates, hours of operation and facility staffing at the Nelson Sand & Gravel Mine Facility will all remain unchanged. In addition, the current river-based transportation system would remain unchanged; assuming consistent market conditions, barge capacities and annual trips are expected to remain the same. Barges would continue to be loaded at the existing dock wall location of the Nelson Sand & Gravel Mine Facility using the same equipment. As a result, waste generation would remain at approximately the same as levels currently generated.

Fuels, oils, lubricants, and other materials typically used by industrial equipment would be used during construction and operations of the proposed Project. Hazardous material storage would include secondary containment of fuels during construction and operation of the proposed Project; these materials would be stored away from open water areas.

The proposed Project conveyors would require grease for lubrication, and the floating dredge unit would require grease, hydraulic oil, and gear box oil. Grease would be used for lubrication on the inside of bearings on the floating dredge unit and on the floating conveyor line. Greasing would be performed manually with staff expected to clean any residual grease following each application. Small drums of grease would be stored on the floating dredge unit inside a double-walled container to prevent potential release during storage. Consequently, the potential for impact to land or waters from grease use on the floating dredge unit or the conveyors is

minimal. No other chemicals or hazardous materials would be needed for or generated by the proposed Project.

Refueling spills and equipment failures, such as a broken hydraulic line, could introduce contaminants into soil and surface waters during construction and operations. Employees would be present to visually monitor all fluid changes and transferring activity and the hydraulic systems would be inspected daily by employees. Observed maintenance concerns would be corrected immediately to prevent potential failures that could lead to a release. A spill could result in potentially adverse effects to on-site soils and surface waters. However, the amounts of fuel and other lubricants and oils would be limited to that needed by the equipment on-site. Aggregate Industries uses biodegradable oils in the hydraulic systems and maintains spill kits and absorbent stock on the dredge to ensure that employees can respond quickly to any release.

The proposed Project would use the existing tanks and would not require any new tanks. Aggregate Industries' existing Spill Prevention Control and Countermeasures plan would be modified for the proposed Project to help prevent the discharge of oil and control a spill should one occur. All construction and operations personnel would be trained in the measures included in this plan. Both the conveyors and the dredge unit are electric and would not require use of fuels.

d. Project related generation/storage of hazardous wastes – Describe hazardous wastes generated/stored during construction and/or operation of the project. Indicate method of disposal. Discuss potential environmental effects from hazardous waste handling, storage, and disposal. Identify measures to avoid, minimize or mitigate adverse effects from the generation/storage of hazardous waste including source reduction and recycling.

Equipment oil changes and routine maintenance activities would be conducted on the floating dredge unit using procedures currently in effect for the existing Nelson Sand & Gravel Mine Facility. All drums of used oil would be sealed tightly and removed by boat to the shore for storage in the existing land-based shop for recycling. The used oil would be collected and properly disposed of by a MPCA-certified transporter. No other hazardous wastes would be stored or generated by the proposed Project.

13. Fish, Wildlife, Plant Communities, and Sensitive Ecological Resources (Rare Features)

a. Describe fish and wildlife resources as well as habitats and vegetation on or in near the site.

The MDNR, in collaboration with the U.S. Forest Service, developed an Ecological Classification System (ECS) for hierarchical mapping and classification of Minnesota land areas with similar

native plant communities and other ecological features. Based on the ECS, the proposed Project area is located in the St. Paul-Baldwin Plains Subsection of the Minnesota and Northeast Iowa Morainal Section of the Eastern Broadleaf Forest Province [reference (12)]. The Mississippi River cuts through the center of this subsection. Pre-settlement vegetation was primarily comprised of oak and aspen savanna communities; tallgrass prairie and maple-basswood forest were also common.

The majority of the proposed Project area consists of open water in Lower Pool 2 of the Mississippi River. The proposed Project area is bound on the north by Lower Grey Cloud Island and on the south by barrier islands created by the USACE to deposit dredge spoils (**Figure 5**). Historically, the proposed Project area was upland; it became inundated by the impoundment created as a result of Lock and Dam #2 construction in 1930 (**Figure 4**). The existing Nelson Sand & Gravel Mine Facility already encompasses much of the central portion of Lower Grey Cloud Island. The rest of the island remains largely rural, with a patchwork of woodlands and cultivated tracts of land.

Additional forested areas are comprised of elms (*Ulmus* spp.) and red pine (*Pinus resinosa*). These forests are disturbed communities with a substantial presence of invasive buckthorn (*Rhamnus* sp.) and honeysuckle (*Lonicera* sp.). Upland grasslands in the vicinity of the proposed Project area are comprised predominantly of planted and/or non-native species. Dominant grassland species include smooth brome (*Bromus inermis*) and Kentucky bluegrass (*Poa pratensis*). As discussed under EAW Item 11, wetlands are also present in the proposed Project area.

The Mississippi River, including the proposed Project area, provides habitat for a diversity of organisms, such as fish, mussels and other aquatic invertebrates, birds, amphibians, and mammals. Studies conducted by the U.S. Geological Survey (USGS) and NPS have documented 14 species of frogs and salamanders and 8 species of turtles in the MNRRA corridor [reference (13)]. Some of the aquatic mammals present within the MNRRA corridor include the American beaver (*Castor canadensis*), river otter (*Lontra canadensis)*, mink (*Neovison vison)*, and muskrat (*Ondatra zibethicus*) [reference (13)]. The Mississippi River Flyway is the migration corridor for a significant portion of North America's waterfowl and shorebirds. According to the NPS, approximately 105 species of water-based birds are present or likely present within the MNRRA corridor [reference (13)].

Fish

Pool 2 of the Mississippi River contains a diversity of fish species and is known to have large populations of walleye (*Sander vitreus*) and sauger (*Sander canadensis*) in the area [reference (14)]. Other common fish species in Pool 2 include smallmouth bass (*Micropterus dolomieu*), largemouth bass (*Micropterus salmoides*), white bass (*Morone chrysops*), bluegill (*Lepomis*

macrochirus), crappie (*Pomoxis annularis*), northern pike (*Esox Lucius*), and catfish (*Ictalurus punctatus*) [reference (14)].

Mussels

Extensive mussel surveys have been conducted in the Upper Mississippi River since the establishment of zebra mussels in the early 1990s. Historically, as many as 41 freshwater mussel species, including several federally and state-listed species, were found in the MNRRA Corridor [reference (15)]. According to the MDNR Statewide Mussel Survey, 31 freshwater mussel species have been documented within 1 mile of the proposed Project area, the most common of which include: mapleleaf (*Quadrula quadrula*), threehorn wartyback (*Obliquaria reflexa*), Wabash pigtoe (*Fusconaia flava*), wartyback (*Quadrula nodulata*; state-threatened), giant floater (*Pyganodon grandis*), deertoe (*Truncilla truncata*), and fragile papershell (*Leptodea fragilis*).

b. Describe rare features such as state-listed (endangered, threatened, or special concern) species, native plant communities, Minnesota County Biological Survey Sites of Biodiversity Significance, and other sensitive ecological resources on or within close proximity to the site. Provide the license agreement number (LA-_____) and/or correspondence number (ERDB_____) from which the data were obtained and attach the Natural Heritage letter from the DNR. Indicate if any additional habitat or species survey work has been conducted within the site and describe the results.

The U.S. Fish and Wildlife Service (USFWS) Information for Planning and Conservation (IPaC) online tool identifies five federally endangered or threatened species as potentially occurring in the vicinity of the proposed Project area. Species documented by IPaC include three federally and state endangered mussel species, Higgins' eye pearlymussel (*Lampsilis higginsii*), sheepnose mussel (*Plethobasus cyphyus*), snuffbox mussel (*Epioblasma triquetra*); the federally endangered and state watchlist rusty patched bumble bee (*Bombus affinis*); and the federally threatened and state watchlist northern long-eared bat (*Myotis septentrionalis*) (**Appendix A**). No designated critical habitat is present in the vicinity of the proposed Project area.

The three federally endangered mussel species inhabit large rivers, including the Mississippi River [reference (16)]. According to the MDNR Minnesota Natural Heritage Information System (NHIS) database (Barr License Agreement LA-986), the Higgins' eye has been documented within one mile of the proposed Project area (**Table 7**). Sheepnose and snuffbox mussels have not been documented within one mile of the proposed Project area; however, according to the NHIS database, both species have been documented approximately four miles downstream of the proposed Project area.

The rusty patched bumble bee inhabits open areas with abundant flowers, nesting sites

(underground and abandoned rodent cavities or clumps of grasses), and undisturbed soil for overwintering sites. According to the NHIS database, rusty-patched bumble bees have been documented within one mile of the proposed Project area (**Table 7**).

The northern long-eared bat inhabits caves, mines, and forests [reference (16)]. Forested habitat suitable for northern long-eared bat is present in the vicinity of the proposed Project area. According to the MDNR and USFWS, the nearest known hibernacula is located approximately seven miles north of the proposed Project area, in Dakota County and no known roost trees have been documented in Dakota or Washington counties [reference (17)].

The MDNR's NHIS database was reviewed in March 2021 to determine if any additional state-listed rare species have been documented in the vicinity of the proposed Project area. **Table 7** summarizes the species identified within one mile of the proposed Project area and their associated habitats in Minnesota.

Data from the MDNR Minnesota Biological Survey were reviewed to determine if any Minnesota Biological Survey Sites of Biodiversity Significance, native plant communities, Scientific Natural Areas, or other sensitive ecological resources are present within or near the proposed Project area.

As shown on **Figure 13**, several Sites of Biodiversity Significance and native plant communities are present in the vicinity of the proposed Project area. The Grey Cloud Island Beach Site of Biodiversity Significance, which is ranked "below" with regards to its biodiversity significance, borders the northern portion of the proposed mining area (**Figure 13**). A Site of Biodiversity Significance ranked "below" lacks occurrences of rare species and natural features or does not meet standards for outstanding, high, or moderate ranks [reference (19)]. These sites may include areas of conservation value at the local level, such as habitat for native plants and animals, corridors for animal movement, buffers surrounding higher-quality natural areas, areas with high potential for restoration of native habitat, or open space. A willow sandbar shrubland native plant community is mapped within this Site of Biodiversity Significance (**Figure 13**); this community has a conservation status rank of S4 (apparently secure; uncommon but not rare) [reference (20)].

Table 7 MDNR Natural Heritage Information System Database Records within One Mile

Scientific Name	Common Name	State Status[1]	Federal Status[1]	Habitat in Minnesota[2]	Habitat in Proposed Project Area
MUSSELS					
Arcidens confragosus	Rock pocketbook	END	NL	Medium to large rivers	Yes
Elliptio crassidens	Elephant-ear	END	NL	Large rivers	Yes
Lampsilis higginsii	Higgins' eye	END	END	Mississippi River and some of its large tributaries	Yes
Megalonaias nervosa	Washboard	END	NL	Large rivers	Yes
Reginaia ebenus	Ebonyshell	END	NL	Large rivers	Yes
Tritogonia verrucosa	Pistolgrip	END	NL	Large rivers	Yes
Actinonaias ligamentina	Mucket	THR	NL	Medium to large rivers	Yes
Ellipsaria lineolata	Butterfly	THR	NL	Large rivers	Yes
Eurynia dilatata	Spike	THR	NL	Small to large rivers	Yes
Quadrula nodulata	Wartyback	THR	NL	Large rivers	Yes
Theliderma metanevra	Monkeyface	THR	NL	Large rivers	Yes
Truncilla donaciformis	Fawnsfoot	THR	NL	Large rivers	Yes
Pleurobema sintoxia	Round pigtoe	SPC	NL	Medium to large rivers	Yes
FISH					
Ictiobus niger	Black buffalo	THR	NL	Sloughs, impoundments, and both fast- and slow-flowing portions of rivers	Yes
Polyodon spathula	Paddlefish	THR	NL	Large rivers and river lakes, oxbow lakes, and backwaters	Yes
Anguilla rostrata	American eel	SPC	NL	Medium to large rivers	Yes
Aphredoderus sayanus	Pirate perch	SPC	NL	Sloughs, ditches, and backwaters near the Mississippi River	Yes
BIRDS					
Ammodramus henslowii	Henslow's sparrow	END	NL	Uncultivated grasslands and old fields with stalks for singing perches and a substantial litter layer	Yes

Scientific Name	Common Name	State Status[1]	Federal Status[1]	Habitat in Minnesota[2]	Habitat in Proposed Project Area
Lanius ludovicianus	Loggerhead shrike	END	NL	Upland grasslands/agriculture areas where short grass vegetation and perching sites are found	Yes
Vireo bellii	Bell's vireo	SPC	NL	Shrub thickets, clumps, and edges within or bordering open habitats such as grasslands or wetlands.	Yes
Chondestes grammacus	Lark sparrow	SPC	NL	Upland grasslands with short and/or sparse grasses (usually native) in areas of sand or gravel soils, with at least some bare ground and widely-scattered or patchy trees	Yes
VASCULAR PLANTS					
Aristida tuberculosa	Seaside three- awn	THR	NL	Exclusively in dry and loose sand in sand savannas, sand prairies, and dunes where vegetation is sparse.	No
Bacopa rotundifolia	Waterhyssop	THR	NL	Along margins of low sandy or silty islands in the Mississippi River	Yes
Besseya bullii	Kitten-tails	THR	NL	Oak savanna, dry prairies, and oak woodlands along bluffs and terraces of the St. Croix, Mississippi, and Minnesota river valleys	No
Orobanche ludoviciana var ludoviciana	Louisiana broomrape	THR	NL	Dry prairie or dry savanna, particularly in areas with excessively drained, loose and sandy or gravelly soil.	No
Sagittaria calycina var. calycina	Hooded arrowhead	THR	NL	Lake shores, riverbanks, ponds, and marshes	Yes
Asplenium platyneuron	Ebony spleenwort	SPC	NL	Dry mesic hardwood forests	No
Cirsium pumilum var. hillii	Hill's thistle	SPC	NL	Southern dry prairies and savannas, and southern mesic prairies to a lesser extent.	No
Panax quinquefolius	American ginseng	SPC	NL	Mature upland deciduous forests	No
Triplasis purpurea var. purpurea	Purple sandgrass	SPC	NL	Sand dunes	No
INSECTS					
Hesperia	Leonard's			Dry habitats on sand, including prairie and savanna, and openings in woodlands.	

Scientific Name	Common Name	State Status[1]	Federal Status[1]	Habitat in Minnesota[2]	Habitat in Proposed Project Area
leonardus	skipper	SPC	NL	Dominance of native plant species appears to be important part of habitat.	No
Bombus affinis	Rusty-patched bumble bee	Watchlist	END	Open areas that provide nectar and pollen from flowers, nesting sites (underground and abandoned rodent cavities or clumps of grasses), and overwintering sites for hibernating queens (undisturbed soil).[3]	Yes
REPTILES					
Coluber constrictor	North American racer	SPC	NL	Forested hillsides, bluff prairies, grasslands, and open woods.	Yes

[1]State or federal status: END = endangered; THR=threatened; SPC=special concern; NL=not listed
[2]With the exception of rusty-patched bumble bee, all habitat information obtained from the MDNR Rare Species Guide [reference (16)].
[3]Habitat information obtained from reference (18).

The Grey Cloud Dunes Scientific and Natural Area is located approximately one-half mile north of the proposed Project area (**Figure 13**). The Spring Lake Islands State Wildlife Management Area is located 0.2 miles west of the proposed mining area (**Figure 13**). In addition, several MDNR Regionally Significant Ecological Areas have been identified in areas adjacent to the proposed Project area (**Figure 13**). The MDNR identifies Regionally Significant Ecological Areas within the seven-county metropolitan area where intact native plant communities and/or native animal habitat are still found and continue to provide important ecological functions.

c. Discuss how the identified fish, wildlife, plant communities, rare features and ecosystems may be affected by the project. Include a discussion on introduction and spread of invasive species from the project construction and operation. Separately discuss effects to known threatened and endangered species.

General Impacts

The proposed Project may have indirect adverse effects on wildlife in the vicinity of the proposed Project area due to the presence of equipment and associated noise and human activity during construction and operation. The noise associated with the existing Nelson Sand & Gravel Mine Facility processing plant would continue but the existing dredge noise would shift as mining starts in the adjacent proposed mining area. Many species, even those accustomed to human proximity, could abandon habitats near the proposed Project area; however, similar habitat is abundant throughout Pool 2.

Terrestrial Species Impacts

Only minimal effects on upland vegetation are planned during construction. The majority of the proposed Project area is located within the USFWS "low potential zone" for rusty-patched bumble bees; this zone represents areas where the species is not likely to be present [reference (18)]. In order to avoid potential adverse effects on the rusty-patched bumble bee, a field survey to confirm presence of suitable habitat may need to be conducted in the Project area surrounding the westernmost conveyor prior to construction activities.

Suitable habitat for the Leonard's skipper (*Hesperia leonardus*) is not present in the proposed Project area (**Table 7**); as such, adverse effects on this species are not anticipated from the proposed Project. Suitable habitat for the North American racer (*Coluber constrictor*) is present in the proposed Project area, and the nearest documented location of a North American racer is approximately 0.9 mile north of the proposed Project area. With only minimal disturbance of suitable habitat occurring as part of the proposed Project, adverse effects to this species are not likely.

Habitat for the northern long-eared bat is present within the proposed Project area. However, tree removal is expected to be minimal and would not occur during the northern long-eared bat pup season (June 1 through July 31); as such, adverse effects to northern long-eared bats are not anticipated from the proposed Project.

Suitable habitat for the state listed terrestrial vascular plant species identified in the NHIS database, including seaside three-awn (*Aristida tuberculosa*), kitten-tails (*Besseya bullii*), ebony spleenwort (*Asplenium platyneuron*), Louisiana broomrape (*Orobanche ludoviciana var ludoviciana)*, Hill's thistle (*Cirsium pumilum var. hillii*), American ginseng (*Panax quinquefolius*), and purple sandgrass (*Triplasis purpurea var. purpurea*) (**Table 7**), is not present in the proposed Project area; as such, adverse effects to these species are not anticipated from the proposed Project.

Wetland/Aquatic Plant Species Impacts

The state listed aquatic/wetland vascular plant species identified in the NHIS database, including waterhyssop (*Bacopa rotundifolia*) and hooded arrowhead (*Sagittaria calycina var. calycina)* (**Table 7**), could be adversely affected by the proposed Project either directly during construction or due to loss of habitat during operation. Waterhyssop has been found in several locations in the vicinity of the proposed Project, including the middle of the proposed mining area and along the barrier islands at the southern end of the proposed mining area. Hooded arrowhead has been documented approximately 0.4 miles southwest of the proposed mining area; however, suitable habitat for hooded arrowhead is also present within the proposed mining area.

Migratory Bird and Waterfowl Impacts

In general, stopover habitat and potential nesting habitat for migratory birds and waterfowl would be lost in the proposed Project area as a result of construction and operation of the Project. However, loss of habitat within the Project area would not be expected to adversely affect the common migratory bird and waterfowl species, as other areas of suitable habitat are present throughout Pool 2. The state listed birds identified in the NHIS database, including Henslow's sparrow (*Ammodramus henslowii*), loggerhead shrike (*Lanius ludovicianus*), Bell's vireo (*Vireo bellii)*, and lark sparrow (*Chondestes grammacus)* (**Table 7**), generally inhabit and feed in upland areas; however, they could be present along the edge of the proposed Project area.

Fish Impacts

The proposed Project could adversely affect fish, including state listed species identified in the NHIS database (**Table 7**). Direct effects on fish could result from mortality during construction and operation of the proposed Project; however, the proposed mining area would remain connected to the main channel and would allow for the movement fish in and out of the area. Because they are mobile organisms, the majority of fish would likely move away from the proposed mining area during construction and operation. Indirect effects could result from loss and/or alteration of habitat due to substrate and depth changes and/or sedimentation associated with proposed mining. Areas in the depth range of 2 to 12 feet would be lost due to dredging activities. Those species that require shallower water for important life-cycle activities may be affected, but the proposed mining area would retain some nearshore shallow areas, with large areas of the backwater becoming deep water habitat. This change would benefit some species and likely be detrimental to others, such as those species that use the proposed Project area as reproductive habitat, or as rearing habitat for juvenile fish.

Mussel Impacts

The proposed Project could adversely affect mussels, including the federally and state listed species identified in the NHIS database (**Table 7**). Direct effects on mussels could result from mortality during construction and operation of the proposed Project. Indirect effects could result from loss and/or alteration of habitat due to substrate and depth changes and/or sedimentation associated with proposed mining. Due to their sedentary nature, mussels have limited refugia from habitat alteration.

Rare Features

The proposed Project would have minimal effects on the Grey Cloud Island Beach Site of Biodiversity Significance and the associated willow sandbar shrubland native plant community due to the ground disturbance that would be necessary for construction of the proposed conveyors and landing points. No other effects on rare features or communities are anticipated

from the proposed Project.

Invasive Species

Pool 2 currently contains several aquatic invasive species, including Eurasian water milfoil (*Myriophyllum spicatum*), flowering rush (*Butomus umbellatus*), zebra mussel (*Dreissena polymorpha*), silver carp (*Hypophthalmichthys molitrix*), and bighead carp (*Hypophthalmichthys nobilis*) [reference (14)]. Although these invasive species are already present in Pool 2, the proposed Project could further their spread as a result of equipment coming to and from the proposed Project area.

Aggregate Industries contacted Lisa Joyal, the Environmental Review Coordinator at the MDNR, on June 5, 2021, to report the results of the NHIS database review and to request MDNR concurrence on potential effects on state listed species and rare features. As of the publication of this EAW, no response has been received.

d. Identify measures that will be taken to avoid, minimize, or mitigate adverse effects to fish, wildlife, plant communities, and sensitive ecological resources.

As discussed above in EAW Item 11 (Water Resources), potential effects on water quality would be minimized through use of applicable BMPs. To minimize the spread of terrestrial and aquatic invasive species, contractors would be required to comply with applicable Minnesota regulations, which could include measures such as cleaning construction equipment prior to arriving on site and upon leaving the site.

Potential adverse effects on mussels, including federally and state listed species, could be minimized by conducting a mussel survey prior to each phase of mining and relocating all individuals observed upstream of the proposed Project area.

Previous project planning and agency coordination efforts have developed mitigation options for the impacts from the proposed Project. The construction of islands has been previously proposed as a mitigation measure for the loss of wetland functions. The mitigation of wetland losses with the construction of created islands would also provide concurrent mitigation for migratory birds and waterfowl by providing stopover, nesting, and feeding habitat. The shallow water areas with vegetation that would result from construction of these islands would provide new areas of fish habitat areas within the windswept portions of Lower Pool 2 and provide parallel mitigation.

14. Historic Properties

Describe any historic structures, archeological sites, and/or traditional cultural properties on or in close proximity to the site. Include: 1) historic designations, 2) known artifact areas, and 3)

architectural features. Attach letter received from the State Historic Preservation Office (SHPO). Discuss any anticipated effects to historic properties during project construction and operation. Identify measures that will be taken to avoid, minimize, or mitigate adverse effects to historic properties.

Grey Cloud Island and its vicinity were occupied by historic and prehistoric peoples. A study entitled *The Survey of Grey Cloud Island, Washington County, Minnesota, An Archaeological Approach* [reference (21)] details information regarding development in the Grey Cloud Island area. According to the study, prehistoric peoples probably occupied the area by at least 1000 BC. An identified site on the southeastern tip of Lower Grey Cloud Island shows remains of prehistoric (1000 BC), early woodlands (1000 BC to 600 BC), middle woodland (600 BC to AD 900), and late prehistoric (AD 900 to 1700) occupancy.

The Minnesota State Historic Preservation Office (SHPO) was contacted on March 30, 2021, to request a summary of all historic structures and archaeological sites located in the vicinity of the proposed Project. On April 1, 2021, SHPO provided data for this request. The SHPO data indicates that there are five recorded historic structures and five archaeological sites on Grey Cloud Island (**Table 8**). According to the SHPO data, only one of the archaeological sites, the Shilling Archaeological District, is listed on the National Register of Historic Places.

Table 8 Historic and Archaeological Resources Located on Grey Cloud Island

Property/Site Name	Township, Range, Section	Inventory #	National Register Status
Historic Structures			
Lower Grey Cloud Island	T26 R21W S5,6 T27 R21W S31, 32 T27 R22W S36	WA-CGC-205	Not determined
Schilling House	T27 R21W S32	WA-CGC-079	Not determined
River Beacon Farmstead	T27 R21W S31	WA-CGC-105	Not determined
Joseph R. Brown Trading Post Site	T27 R21W S31	WA-CGC-182	Not determined
J.L. Shiely Co. Nelson Plant	T27 R22W S36	WA-CGC-234	Not determined
Archaeological Sites			
Shilling Archaeological District	T27 R21W S32	WA-0001	Listed
Grey Cloud Mounds	T27 R22W S36	WA-0009	Not determined
Grey Cloud Town Site	T26 R21W S6	WA-0048	Not determined
Nelson Mine West	T26 R21W S6	WA-0110	Not determined
No name identified	T27 R21W S31	WAe	Not determined

None of the historic structures or archaeological sites identified by SHPO are present in the proposed mining area. In addition, underwater archaeological sampling was conducted in the mining area in 2009, with a total of 43 Ponar samples taken across the mining area [reference (22)]. Each of these Ponar samples was negative for archaeological materials [reference (22)] present in the proposed mining area. Mining is not anticipated to affect historic structures or archaeological sites because none have been identified within the mining area.

As Project design progresses, additional coordination may be required to evaluate options to avoid, minimize or mitigate potential affects to cultural resources.

15. Visual

Describe any scenic views or vistas on or near the project site. Describe any project related visual effects such as vapor plumes or glare from intense lights. Discuss the potential visual effects from the project. Identify any measures to avoid, minimize, or mitigate visual effects.

The Mississippi River and adjacent bluffs provide scenic views and vistas along the river corridor. According to the MRCCA, public river corridor views (PRCVs) are views toward the river from public parkland, historic properties, and public overlooks, as well as views toward bluffs from the ordinary high-water level of the opposite shore, as seen during the summer months. PRCVs are deemed highly valued by the community and worth protecting because of the aesthetic value they bring to the MRCCA. The City has identified five significant public views of the river from Cottage Grove. One of these PRCVs looks towards the proposed Project from the Grey Cloud Dunes Scientific and Natural Area, which is located approximately one-half mile north of the proposed Project area (**Figure 13**). It is anticipated that tree cover on Lower Grey Cloud Island would likely block the view of the proposed Project from this PRCV.

The existing barrier islands in the southern portion of the proposed Project area are vegetated with brush and trees, providing visual screening of the proposed Project from the river and opposite shore. For the proposed Project, barrier dikes would be constructed between the barrier islands, which would provide additional visual screening as they become vegetated.

The size of the floating dredge unit would be approximately 100 feet by 100 feet by 65 feet high, composed primarily of steel, including cranes, buckets, pumps, conveyors, and an operation room. The dredge would be lighted for nighttime operations; therefore, it would be illuminated in the dark. The light fixtures would be hooded to reduce direct glare from the light bulbs. Given its size, the dredging equipment would likely be visible from certain vantage points during the operating season, however, the visual impact from distant overlooks is expected to be minor and not substantially different from the viewshed that includes the existing Nelson Sand & Gravel Mine Facility operations.

The proposed Project is bounded to the north by Lower Grey Cloud Island and on the south by barrier islands. Given the isolated nature of the proposed Project area, along with the very low volume of traffic traveling on roads in the area, visual impacts associated with the proposed Project are anticipated to be minor.

16. Air

a. Stationary source emissions – Describe the type, sources, quantities, and compositions of any emissions from stationary sources such as boilers or exhaust stacks. Include any hazardous air pollutants, criteria pollutants, and any greenhouse gases. Discuss effects to air quality including any sensitive receptors, human health, or applicable regulatory criteria. Include a discussion of any methods used assess the project's effect on air quality and the results of that assessment. Identify pollution control equipment and other measures that will be taken to avoid, minimize, or mitigate adverse effects from stationary source emissions.

The emissions from the proposed Project's processing operations would be comparable to the existing Nelson Sand & Gravel Mine Facility dredge operation, which qualified for a general permit. The existing processing plant at the Nelson Sand & Gravel Mine Facility will be utilized to process aggregate at the same rate. No boilers, exhaust stacks, or other emission sources would be constructed as part of the proposed Project. Although the use of new equipment is not expected for the proposed Project, Aggregate Industries' existing air permit would be modified if new equipment is needed.

b. Vehicle emissions – Describe the effect of the project's traffic generation on air emissions. Discuss the project's vehicle-related emissions effect on air quality. Identify measures (e.g., traffic operational improvements, diesel idling minimization plan) that will be taken to minimize or mitigate vehicle-related emissions.

Service roads would be needed in the proposed Project area to provide access for conveyer maintenance and for staff to access the floating dredge unit; however, the volume would be similar to what is needed for current operations, and no increase in traffic to and from the proposed mining area is anticipated compared to the existing mining operations The proposed Project would not increase vehicle air emissions over current levels and therefore, no vehicle emissions-related changes to current air quality conditions are expected. No change in greenhouse gas emissions is anticipated between the existing project and the proposed Project due to production levels and barge/truck traffic remaining the same as discussed in the Project Description (EAW Item 6).

c. Dust and odors – Describe sources, characteristics, duration, quantities, and intensity of dust and odors generated during project construction and operation. (Fugitive dust may be

discussed under Item 16a). Discuss the effect of dust and odors in the vicinity of the project including nearby sensitive receptors and quality of life. Identify measures that will be taken to minimize or mitigate the effects of dust and odors.

Dust

A minor amount of dust would be generated during initial construction of the service roads, parking area, and conveyor landings. Dust generation is expected to be of short duration, lasting only during construction, and is not anticipated to affect adjacent lands, businesses, or residents due to their distance from the site.

There would be no additional dust generated during mining in the proposed Project area. The sand and gravel material would be saturated when dredged from beneath the river. During the process of separating the sand and silt from the gravel, additional water would be added, and the gravel would remain wet when it is crushed. Excess sand would be stockpiled wet and stabilized in place. The grade of the generated sand is such that it contains minimal fine particles that could become airborne when dry. When final grades are established above water, these areas would be re-soiled and planted with vegetation.

Odors

Similar to current operations, the proposed Project is not anticipated to generate odors.

17. Noise

Describe sources, characteristics, duration, quantities, and intensity of noise generated during project construction and operation. Discuss the effect of noise in the vicinity of the project including 1) existing noise levels/sources in the area, 2) nearby sensitive receptors, 3) conformance to state noise standards, and 4) quality of life. Identify measures that will be taken to minimize or mitigate the effects of noise.

The proposed Project would use the existing floating dredge unit and conveyor system, deployed to an adjacent location. City ordinance limits mining operations to between 6:00 a.m. and 10:00 p.m. For many years, The City has granted Aggregate Industries a variance to allow the existing electric dredge to operate 24 hours per day, seven days per week. The City has allowed the dredge to operate 24 hours per day seven days per week since 1995 since the dredge was installed. Since the dredge has been in operation, one noise complaint has been received by the City, which was in 1996. Aggregate Industries was contacted by the City, and the problem was resolved in a timely manner. The dredge continues to operate 24 hours per day, seven days per week. This variance is reviewed on an annual basis by the City during the renewal of Aggregate Industries' Annual Mining Permit. The floating dredge unit is electrically powered and contains a primary crusher and a series of vibrating screens. The dredge has been fitted with

urethane screens and the operations have been adjusted to run as quietly as possible, as required by the City.

Aggregate Industries has worked with the City to develop the noise minimization measures that are currently in place to yield minimal noise affects. The compatibility of the proposed Project with respect to noise would continue to be reviewed annually by the City as part of annual permit renewals. Since the proposed Project would use the same processing equipment and facility that is currently in operation and would not get closer to sensitive receptors (i.e., residences, schools, etc.) than it is currently, no significant impacts are expected.

18. Transportation

a. Describe traffic-related aspects of project construction and operation. Include: 1) existing and proposed additional parking spaces, 2) estimated total average daily traffic generated, 3) estimated maximum peak hour traffic generated and time of occurrence, 4) indicate source of trip generation rates used in the estimates, and 5) availability of transit and/or other alternative transportation modes.

There are currently no access roads or source of traffic within the proposed Project area. There are existing access roads to the existing Nelson Sand & Gravel Facility, and Grey Cloud Trail S is located along the northern end of the proposed Project area. The existing mine roads would provide access for conveyor maintenance and to the dredge and barge loading facilities. The existing conveyor access roads are located on either side of the existing conveyor system. Grey Cloud Trail S provides access to the two residential houses located north of the proposed Project area and to the house located to the east.

The existing roads are constructed of class 5 (crushed gravel) and asphalt millings material. These existing roads would remain in use through the duration of current mining activities and would be expanded, as needed, to provide operations and maintenance access for the proposed Project. The current operation of the floating dredge unit generates approximately four vehicle trips per day. This traffic occurs during peak hours and is generated by employees working on the dredge. Operator maintenance vehicles would be parked adjacent to conveyor lines installed as part of the proposed Project; no additional parking spaces would be required for the proposed Project. Since the proposed Project is a continuation of an existing mine, just within a new mining area, no additional employees or Project-related traffic would be generated as discussed in the Project Description (EAW Item 6).

Aggregate Industries currently transports its' product by barge from the existing Nelson Sand & Gravel Mine Facility on Grey Cloud Island to St. Paul, once per day, six days per week. The Mississippi River between Grey Cloud Island and St. Paul is heavily trafficked by various types of watercraft including commercial tows carrying various types of cargo as well as recreational

watercraft. The proposed Project would continue to produce aggregate at a similar rate to the existing mine once mining within the current mine area ceases; as such, it would not increase Aggregate Industries' use of barges within the Mississippi River; however, it would continue this use for the next 20 to 25 years.

As discussed above in the Project Description (EAW Item 6), a typical mining and barging season requires up to 625 barge trips; this is equivalent to approximately 30,000 truck trips. As such, the proposed Project would result in a reduction of vehicle traffic volumes as compared to a land-based mining project.

b. Discuss the effect on traffic congestion on affected roads and describe any traffic improvements necessary. The analysis must discuss the project's impact on the regional transportation system.

   If the peak hour traffic generated exceeds 250 vehicles or the total daily trips exceeds 2,500, a traffic impact study must be prepared as part of the EAW. Use the format and procedures described in the Minnesota Department of Transportation's Access Management Manual, Chapter 5 *(available at: http://www.dot.state.mn.us/accessmanagement/resources.html)* or a similar local guidance.

Projected peak hour traffic is anticipated to remain similar to existing conditions with approximately four round trip vehicles expected per day for site access, well below the thresholds for a traffic impact study. The proposed Project would shift the mining area for Aggregate Industries and allow the Nelson Sand & Gravel Mine Facility to continue operations for the next 20 to 25 years. This would require the continued use and potential expansion of existing mine access roads, as well as continued use of barge transportation at rates similar to current conditions. However, there would be no significant increase in the current traffic levels on the regional transportation system.

19. Cumulative Potential Effects

(Preparers can leave this item blank if cumulative potential effects are addressed under the applicable EAW Items)

a. Describe the geographic scales and timeframes of the project related environmental effects that could combine with other environmental effects resulting in cumulative potential effects.

The geographic scale for assessing cumulative potential effects for the proposed Project includes Lower Pool 2 of the Mississippi River.

The timeframe for assessing cumulative potential effects includes the anticipated 20-year life of

the proposed Project.

b. Describe any reasonably foreseeable future projects (for which a basis of expectation has been laid) that may interact with environmental effects of the proposed project within the geographic scales and timeframes identified above.

Reasonably foreseeable future projects that are geographically and temporally similar to the proposed Project, and therefore could potentially interact with the environmental effects of the proposed Project, are limited.

The proposed Project is an extension of existing Nelson Sand & Gravel Mine Facility that has been in continuous operation since 1953. There was a substantial multi-media review of the mining in 1983 at the time of annexation to the City. This review identified a large aggregate resource under water in the area known as Baldwin Lake and the outer islands west of Lower Grey Cloud Island (**Figure 1**). These aggregate reserves are buried under several feet of sediment and are not economical to mine in today's market; however, this area could be mined in the future if the market would bear the added expense. Any future mining in this area is estimated to be approximately 20 years away. If mining would be proposed in this area, a separate environmental review would be conducted at that time. Past and current mining operations contribute to the cumulative potential effects of the proposed Project.

The landowners (PAS Associates, LTD.) of the proposed Project area and the existing Nelson Sand & Gravel Mine Facility area envision developing a mixed residential community on Lower Grey Cloud Island when all mining is completed. Washington County and the Metropolitan Council are interested in developing at least a portion of Lower Grey Cloud Island as a regional park; this development is likely to be at least 20 to 25 years in the future and is separate from the proposed Project.

c. Discuss the nature of the cumulative potential effects and summarize any other available information relevant to determining whether there is potential for significant environmental effects due to these cumulative effects.

There is a possibility that construction of the mixed residential community planned for Lower Grey Cloud Island could occur during a portion of the 20-to-25-year design life of the proposed Project. While the proposed Project consists of a new mining area, it is a continued operation of an existing mine site with no other changes. In general, the daily operations (i.e., volume of aggregate mined, processing rates, and barge/truck traffic) are planned to be the same magnitude as the existing site as discussed in the Project Description (EAW Item 6). While the noise associated with the proposed Project would replace noise associated with the existing Nelson Sand & Gravel Mine Facility, noise associated with construction activities for the housing development could interact with the proposed Project to contribute to cumulative

effects related to noise. While cumulative effects related to noise would not last the duration of the proposed Project, the added noise could further deter wildlife from the area within and around Lower Grey Cloud Island. However, given that the housing development would occur in an area that is currently disturbed by mining, wildlife species may already be accustomed to avoiding this location in favor of similar habitat in the area.

There is potential for cumulative environmental effects as a result of the Project; however, the significance of these cumulative effects has not yet been determined.

20. Other Potential Environmental Effects

If the project may cause any additional environmental effects not addressed by Items 1 to 19, describe the effects here, discuss the how the environment will be affected, and identify measures that will be taken to minimize and mitigate these effects.

The proposed Project is not anticipated to result in environmental effects beyond those described in this document.

RGU CERTIFICATION. *(The Environmental Quality Board will only accept **SIGNED** Environmental Assessment Worksheets for public notice in the EQB Monitor.)*

I hereby certify that:

- The information contained in this document is accurate and complete to the best of my knowledge.
- The EAW describes the complete project; there are no other projects, stages or components other than those described in this document, which are related to the project as connected actions or phased actions, as defined at Minnesota Rules, parts 4410.0200, subparts 9c and 60, respectively.
- Copies of this EAW are being sent to the entire EQB distribution list.

Signature: _____ **Date:** _____

Emily Schmitz

Title: Senior Planner
City of Cottage Grove

Appendix A

U.S. Fish and Wildlife Service IPaC Species List

IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

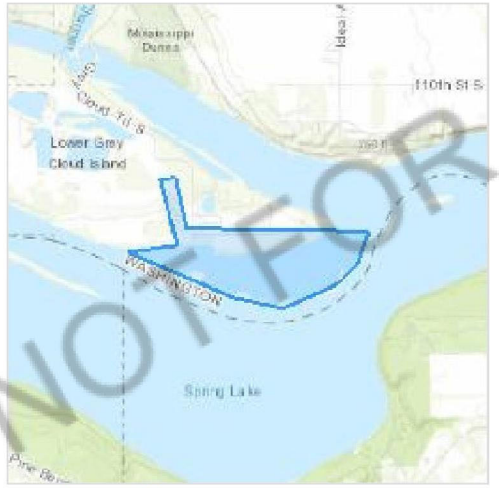
This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

NOT FOR CONSULTATION

Location

Washington County, Minnesota



Local office

Minnesota-Wisconsin Ecological Services Field Office

- (952) 252-0092
- (952) 646-2873

MAILING ADDRESS

4101 American Blvd E Bloomington, MN
55425-1665

PHYSICAL ADDRESS

4101 American Blvd E

Bloomington, MN 55425-1665

http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html

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Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

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1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS

Northern Long-eared Bat Myotis septentrionalis — Threatened
Wherever found
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/9045

Clams

NAME	STATUS
Higgins Eye (pearlymussel) Lampsilis higginsii	Endangered
Wherever found	
No critical habitat has been designated for this species.	
https://ecos.fws.gov/ecp/species/5428	
Sheepnose Mussel Plethobasus cyphyus	Endangered
Wherever found	
No critical habitat has been designated for this species.	
https://ecos.fws.gov/ecp/species/6903	
Snu"box Mussel Epioblasma triquetra	Endangered
Wherever found	
No critical habitat has been designated for this species.	
https://ecos.fws.gov/ecp/species/4135	

Insects

NAME	STATUS
Rusty Patched Bumble Bee Bombus a nis	Endangered
Wherever found	
No critical habitat has been designated for this species.	
https://ecos.fws.gov/ecp/species/9383	

NOT FOR CONSULTATION

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Measures for avoiding and minimizing impacts to birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Nationwide conservation measures for birds http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur o" the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NOT FOR CONSULTATION

NAME	BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)

Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in o''shore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Oct 15 to Aug 31
Golden-winged Warbler Vermivora chrysoptera This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8745	Breeds May 1 to Jul 20
Henslow's Sparrow Ammodramus henslowii This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3941	Breeds May 1 to Aug 31
Prothonotary Warbler Protonotaria citrea This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 1 to Jul 31
Red-headed Woodpecker Melanerpes erythrocephalus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10
Rusty Blackbird Euphagus carolinus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Willow Flycatcher Empidonax traillii This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/3482	Breeds May 20 to Aug 31
Wood Thrush Hylocichla mustelina This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Probability of

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Presence Summary

Breeds May 10 to Aug 31

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence ( ) ■

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season ( )

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ( )

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data ( )

A week is marked as having no data if there were no survey events for that week.

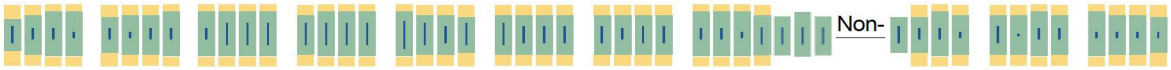
Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas of the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much sparser.

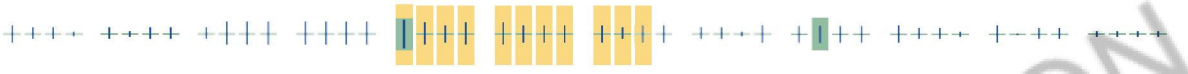


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Bald Eagle Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in o"shore areas from certain types of development or activities.)



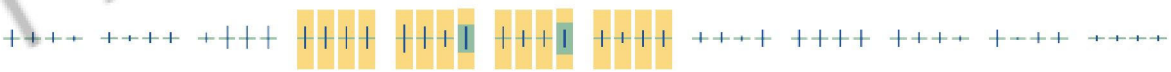
Golden-winged Warbler BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Henslow's Sparrow BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Prothonotary Warbler BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)





NOT FOR CONSULTATION

Red-headed Woodpecker BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Rusty Blackbird BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Willow Flycatcher BCC-BCR(This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)

Wood Thrush BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



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Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the AKN Phenology Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area o"the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative

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Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

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Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

WETLAND INFORMATION IS NOT AVAILABLE AT THIS TIME

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the NWI map to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted.

Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION

Appendix B

References

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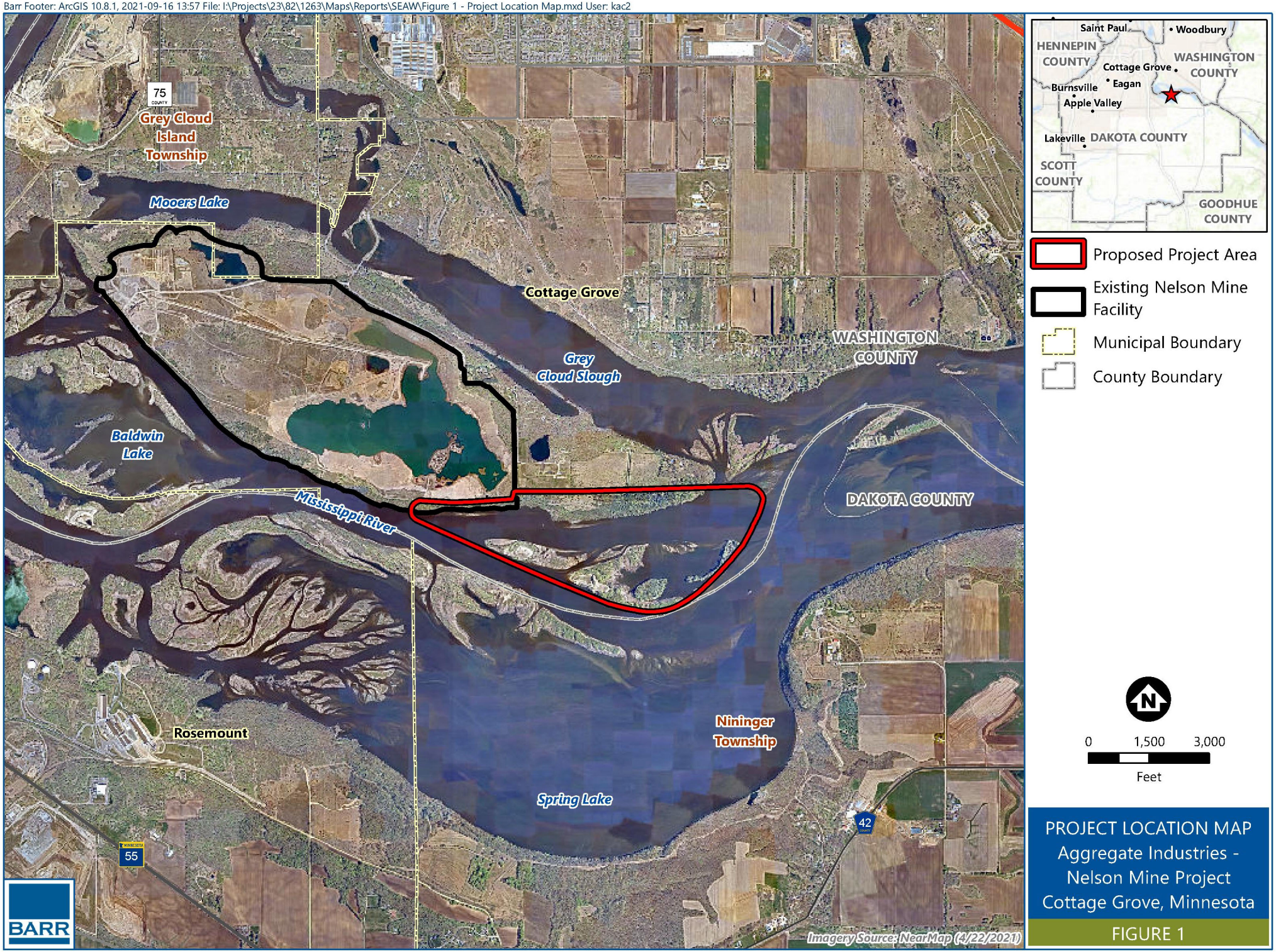
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Appendix C
Figures

Barr Footer: ArcGIS 10.8.1, 2021-09-16 13:57 File: I:\Projects\23\82\1263\Maps\Reports\SEAW\Figure 1 - Project Location Map.mxd User: kac2

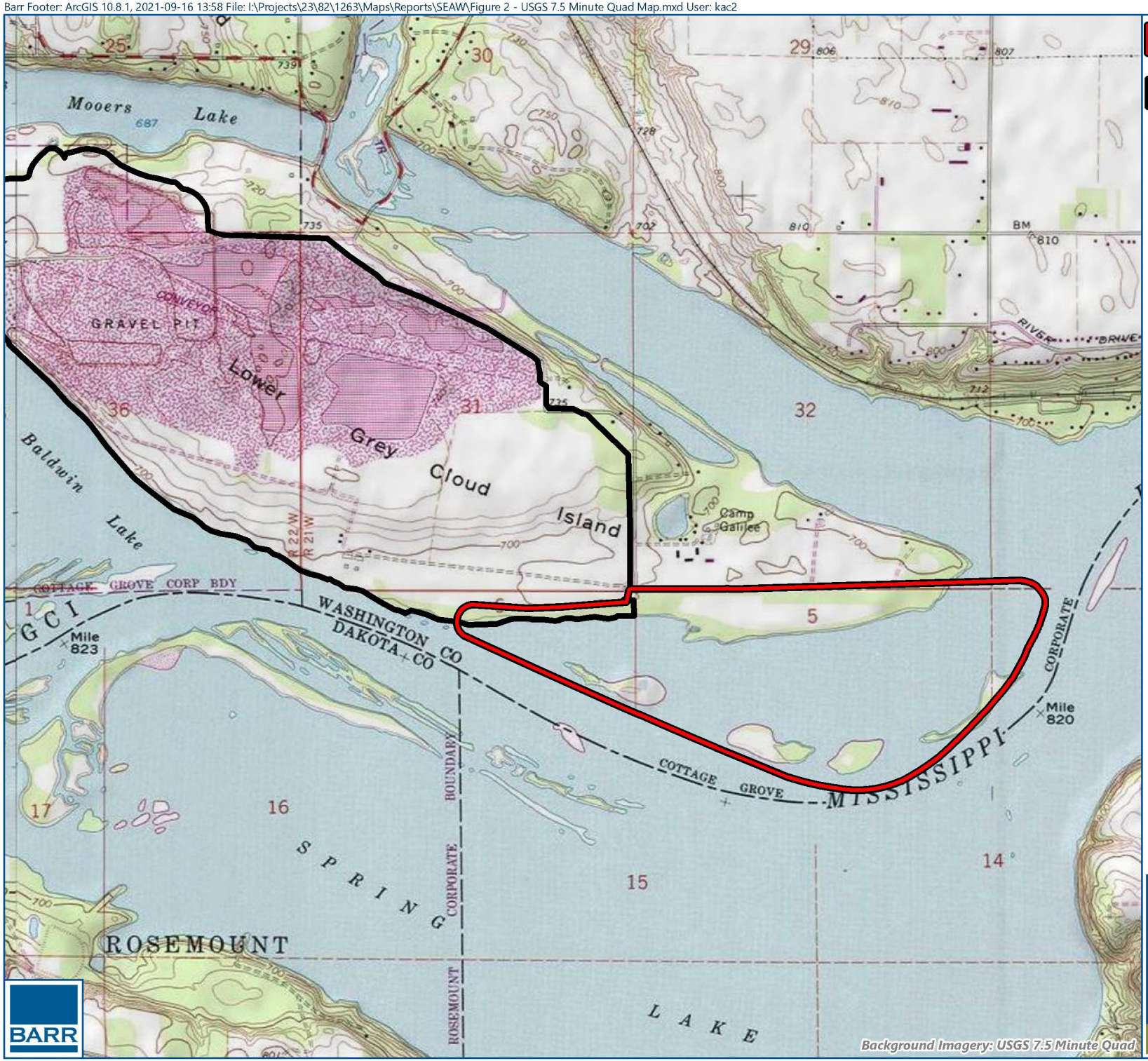


BARR

PROJECT LOCATION MAP
Aggregate Industries - Nelson Mine Project
Cottage Grove, Minnesota

FIGURE 1

Barr Footer: ArcGIS 10.8.1, 2021-09-16 13:58 File: I:\Projects\23\82\1263\Maps\Reports\SEAW\Figure 2 - USGS 7.5 Minute Quad Map.mxd User: kac2

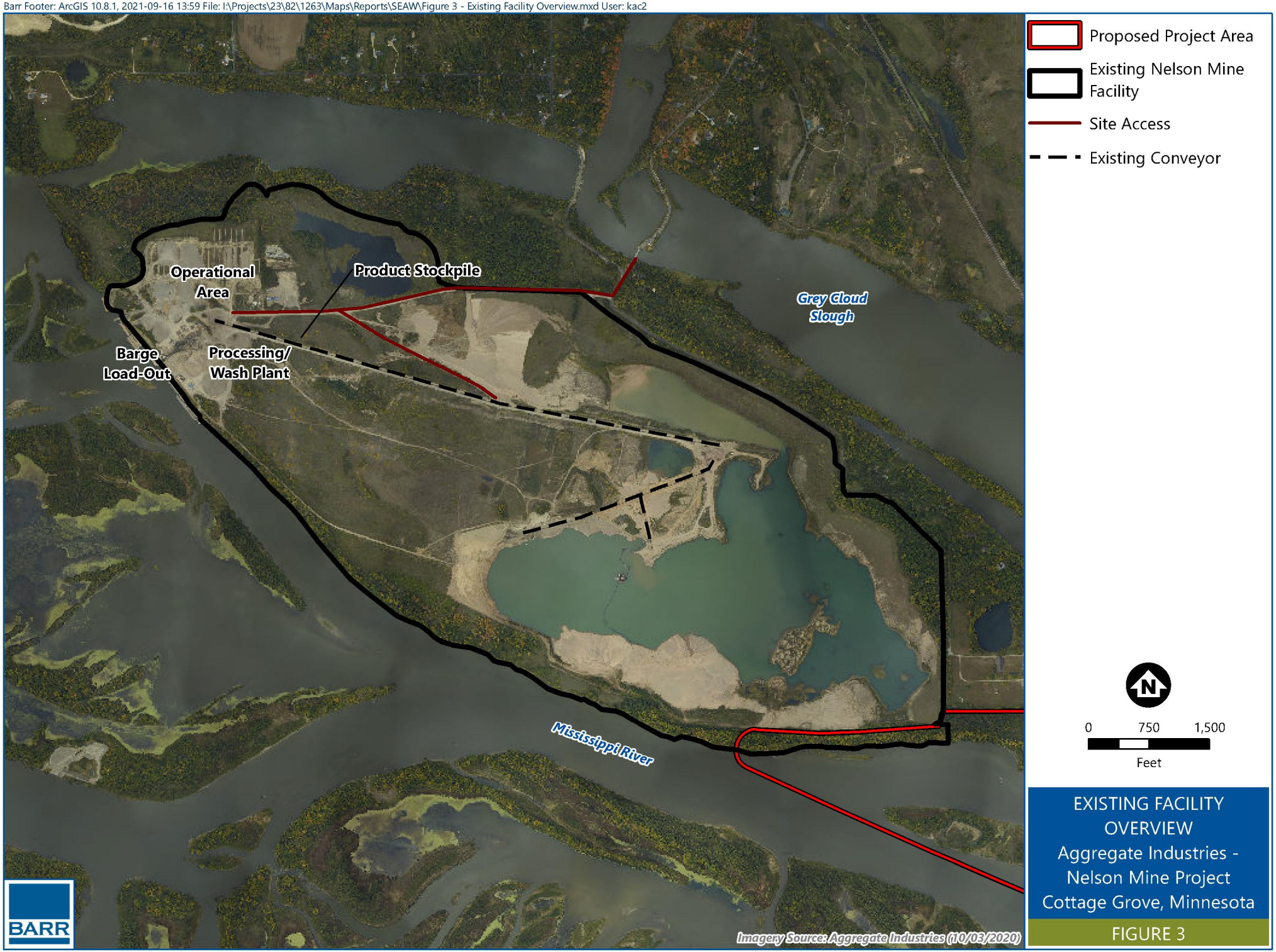


BARR

USGS 7.6 MINUTE QUAD MAP
Aggregate Industries - Nelson Mine Project
Cottage Grove, Minnesota

FIGURE 2

Barr Footer: ArcGIS 10.8.1, 2021-09-16 13:59 File: I:\Projects\23\82\1263\Maps\Reports\SEAW\Figure 3 - Existing Facility Overview.mxd User: kac2

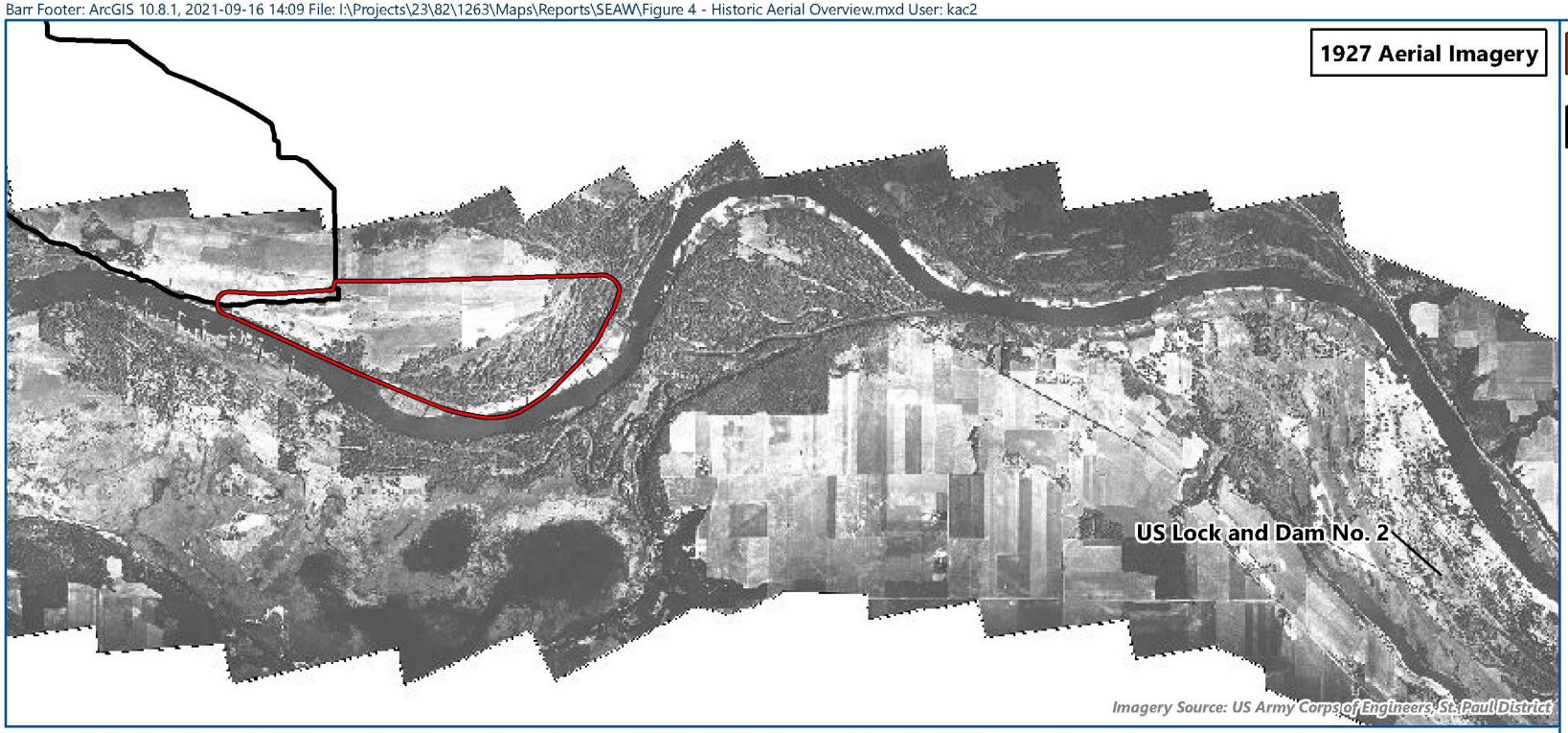


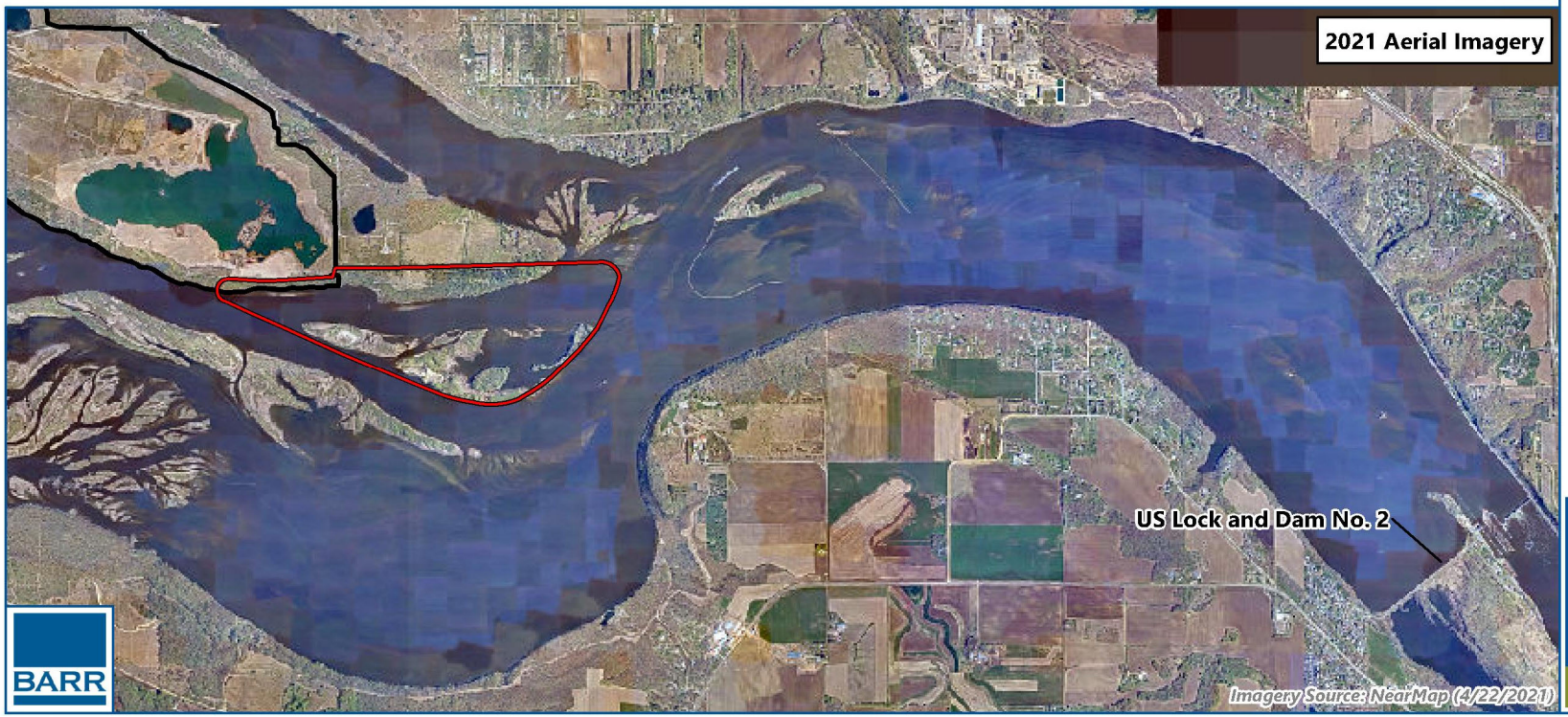
BARR

EXISTING FACILITY OVERVIEW
Aggregate Industries - Nelson Mine Project
Cottage Grove, Minnesota

FIGURE 3

Barr Footer: ArcGIS 10.8.1, 2021-09-16 14:09 File: I:\Projects\23\82\1263\Maps\Reports\SEAW\Figure 4 - Historic Aerial Overview.mxd User: kac2





Proposed Project Area

Existing Nelson Mine Facility

N

0 2,000 4,000

Feet

HISTORIC AERIAL OVERVIEW

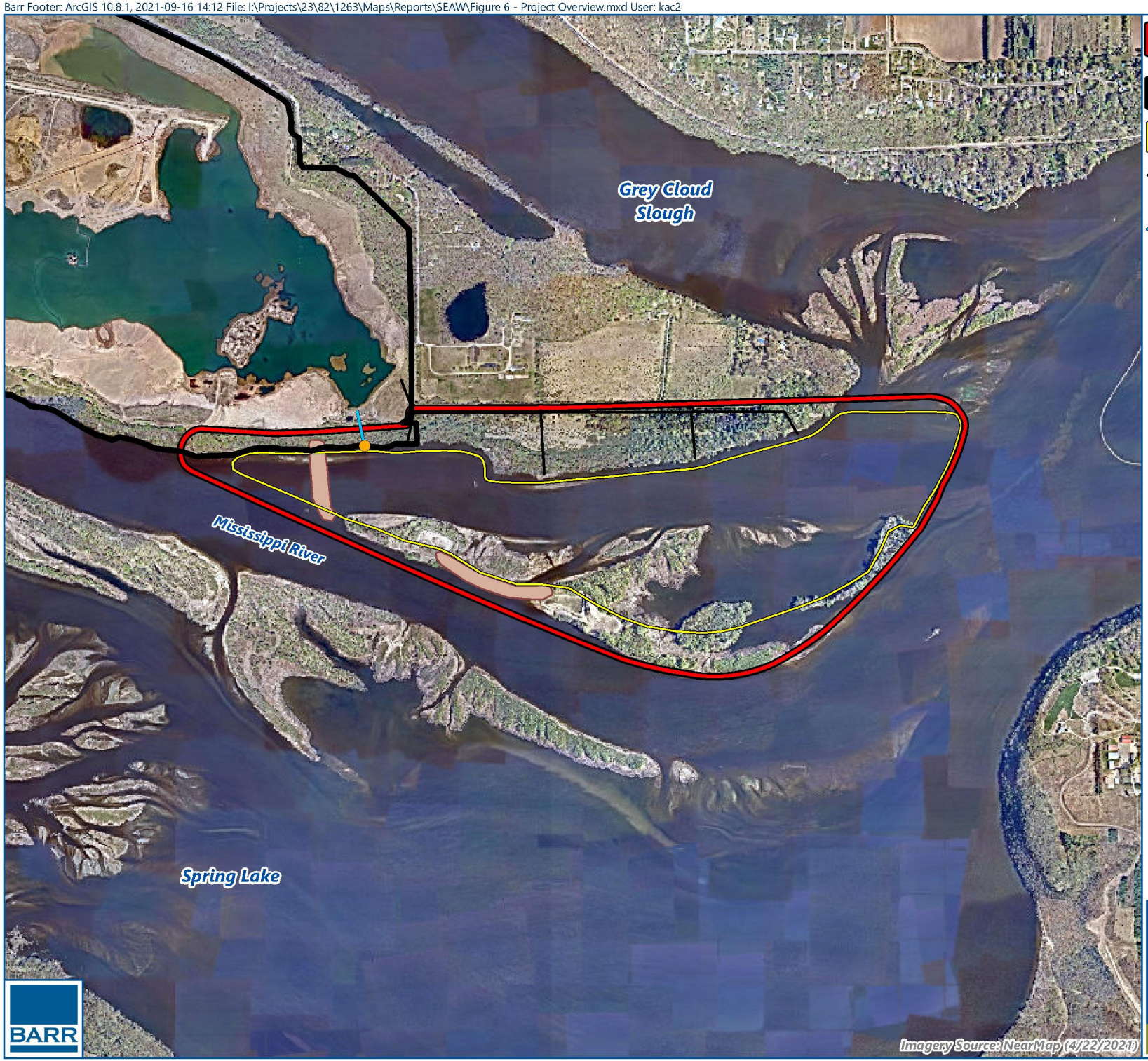
Aggregate Industries - Nelson Mine Project

Cottage Grove, Minnesota

FIGURE 4

BARR

Barr Footer: ArcGIS 10.8.1, 2021-09-16 14:12 File: I:\Projects\23\82\1263\Maps\Reports\SEAW\Figure 6 - Project Overview.mxd User: kac2



Proposed Project Area

Existing Nelson Mine Facility

Proposed Mining Area

Conveyors

Temporary Dredge Unit Transfer Channel

Winter Slip

Proposed Barrier Dikes

N

0 750 1,500

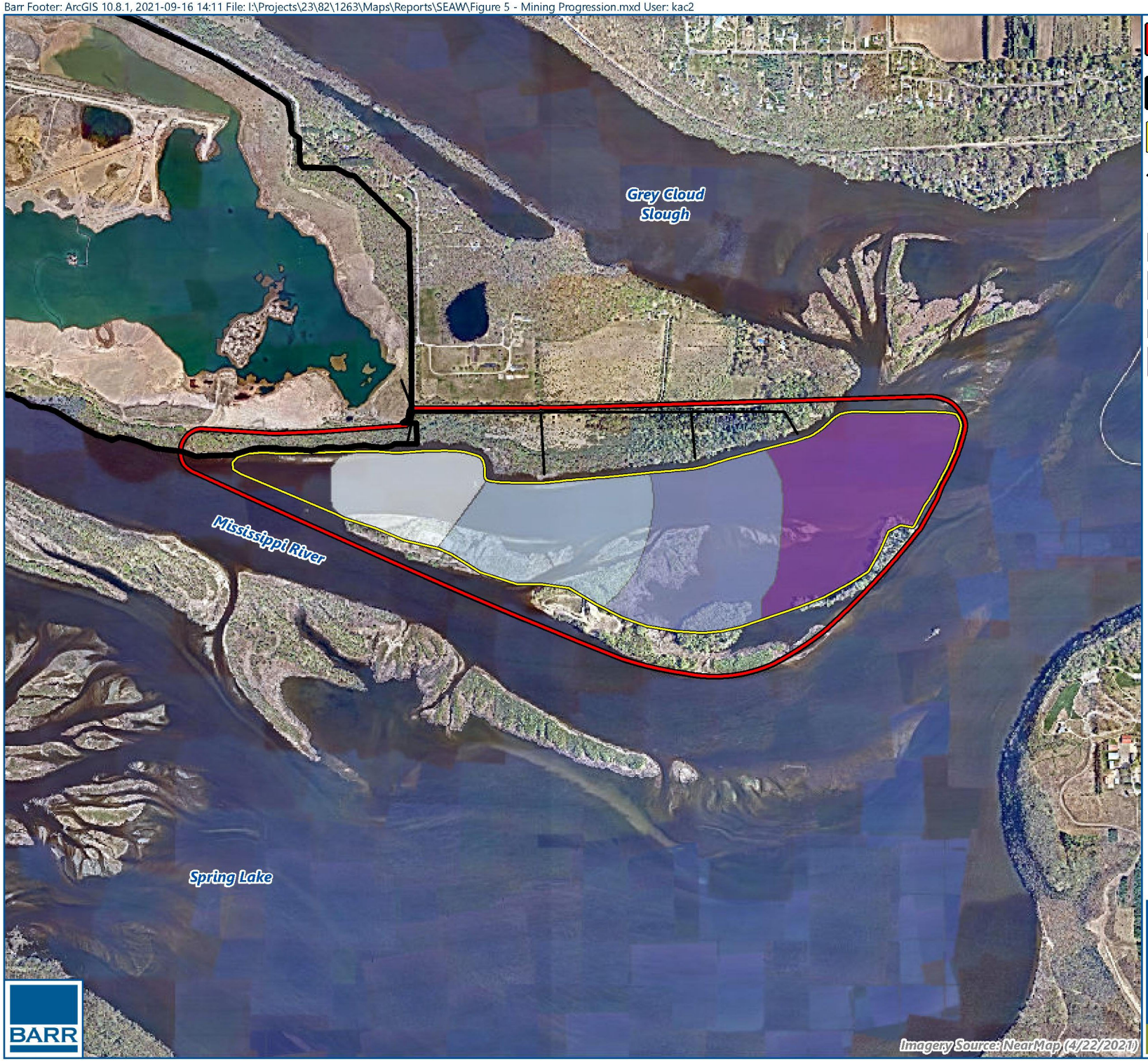
Feet

BARR

PROJECT OVERVIEW
Aggregate Industries - Nelson Mine Project
Cottage Grove, Minnesota

FIGURE 5

Barr Footer: ArcGIS 10.8.1, 2021-09-16 14:11 File: I:\Projects\23\82\1263\Maps\Reports\SEAW\Figure 5 - Mining Progression.mxd User: kac2



Proposed Project Area

Existing Nelson Mine Facility

Proposed Mining Area

Conveyors

Mine Phases

1-3 Years

4-8 Years

9-13 Years

14-20 Years

N

0 750 1,500

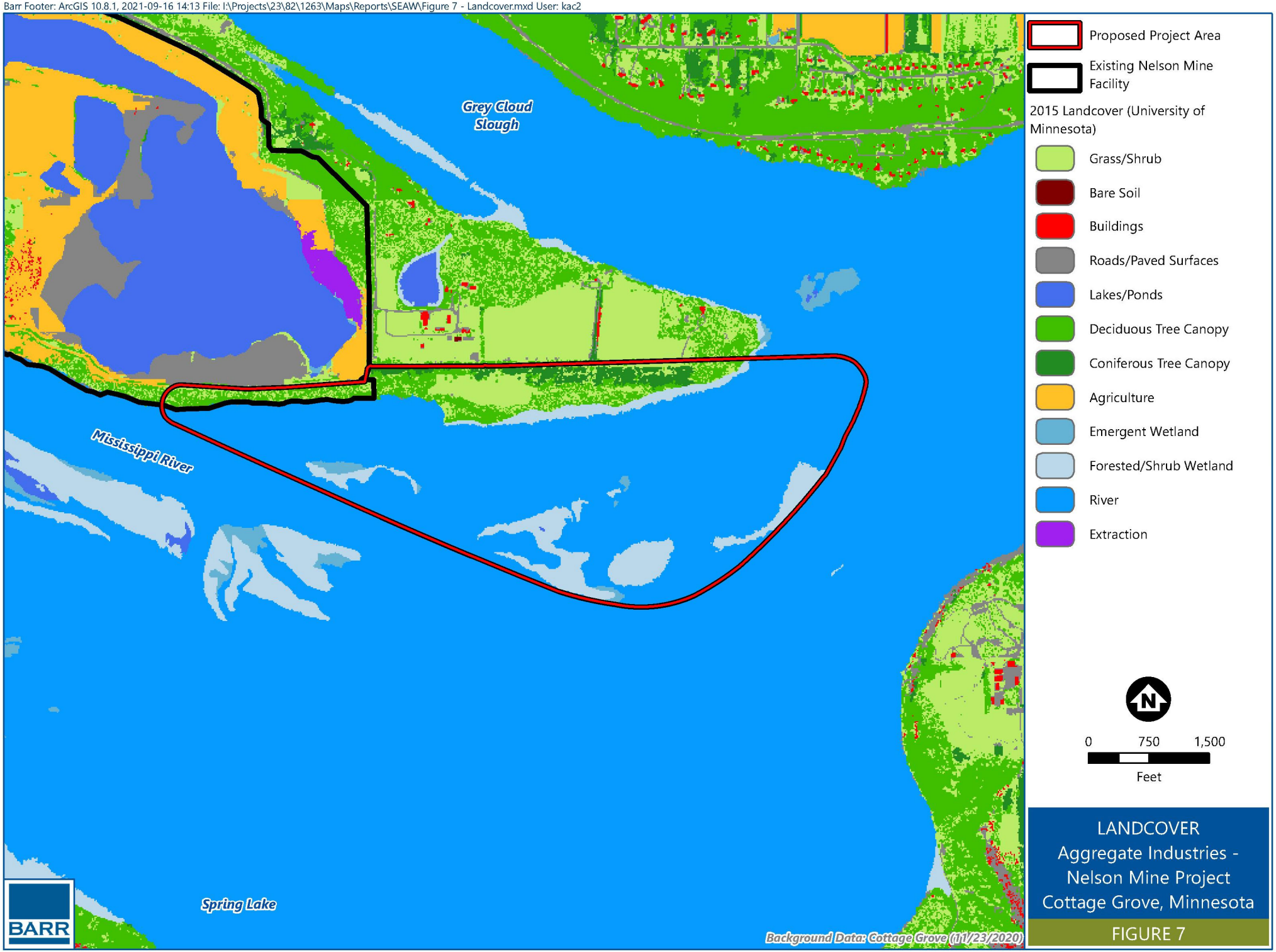
Feet

MINING PROGRESSION
Aggregate Industries - Nelson Mine Project
Cottage Grove, Minnesota

FIGURE 6

BARR

Barr Footer: ArcGIS 10.8.1, 2021-09-16 14:13 File: I:\Projects\23\82\1263\Maps\Reports\SEAW\Figure 7 - Landcover.mxd User: kac2

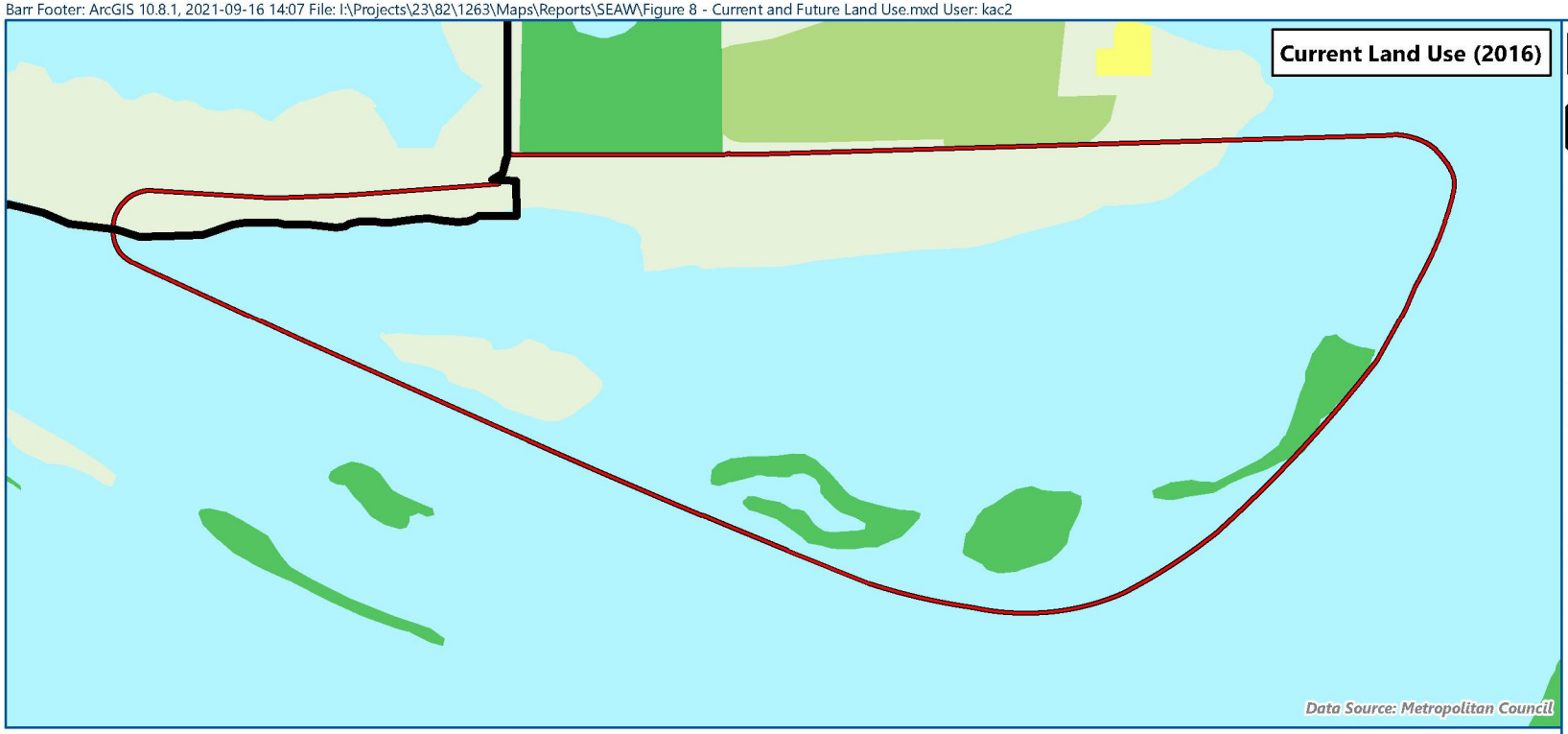


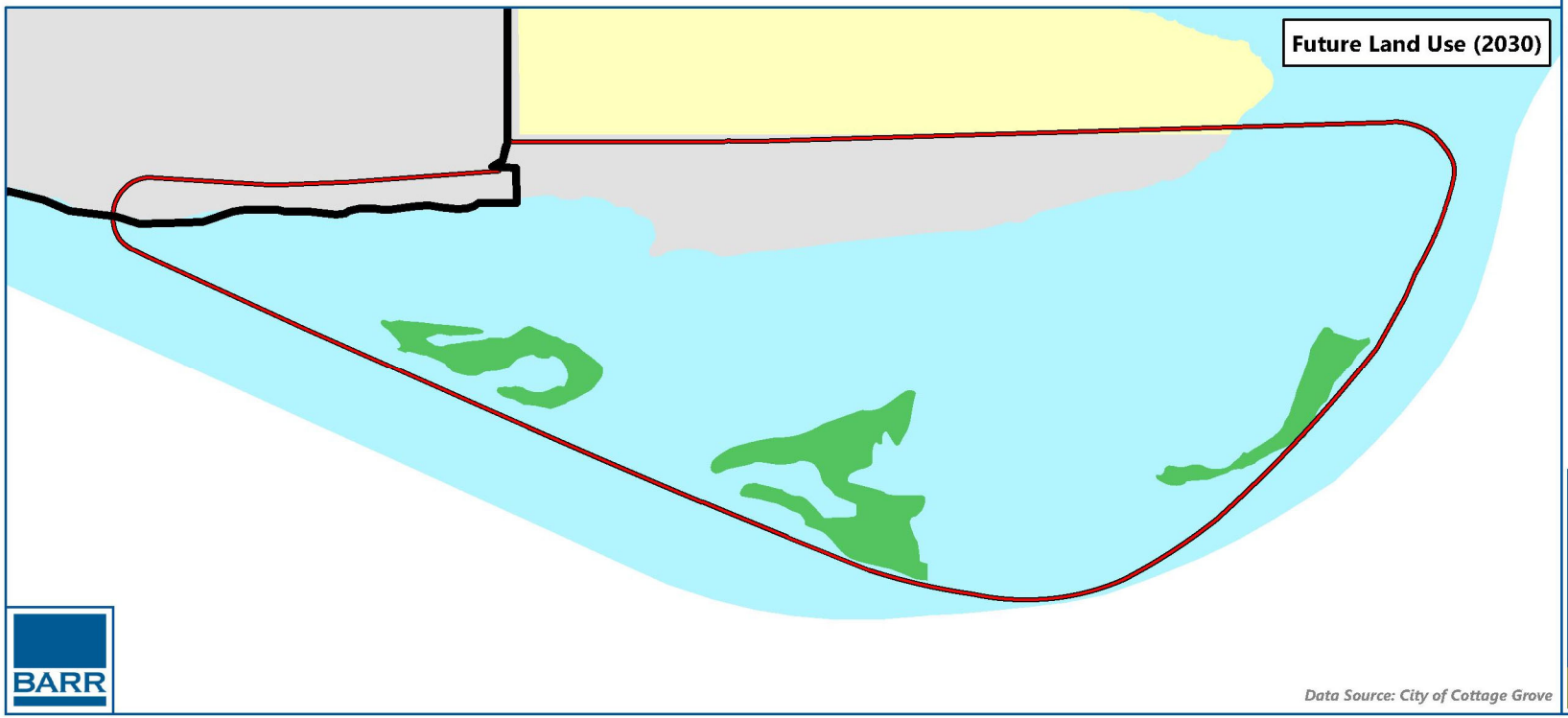
BARR

LANDCOVER
Aggregate Industries - Nelson Mine Project
Cottage Grove, Minnesota

FIGURE 7

Barr Footer: ArcGIS 10.8.1, 2021-09-16 14:07 File: I:\Projects\23\82\1263\Maps\Reports\SEAW\Figure 8 - Current and Future Land Use.mxd User: kac2





Proposed Project Area

Existing Nelson Mine Facility

Current Land Use (2016)

- Single Family Detached
- Industrial and Utility
- Extractive
- Park, Recreational or Preserve
- Railway
- Agricultural
- Undeveloped
- Water

Future Land Use (2040)

- Rural Residential
- Parks/Open Space
- Transition Planning Area
- Open Water

N

0 600 1,200

Feet

BARR

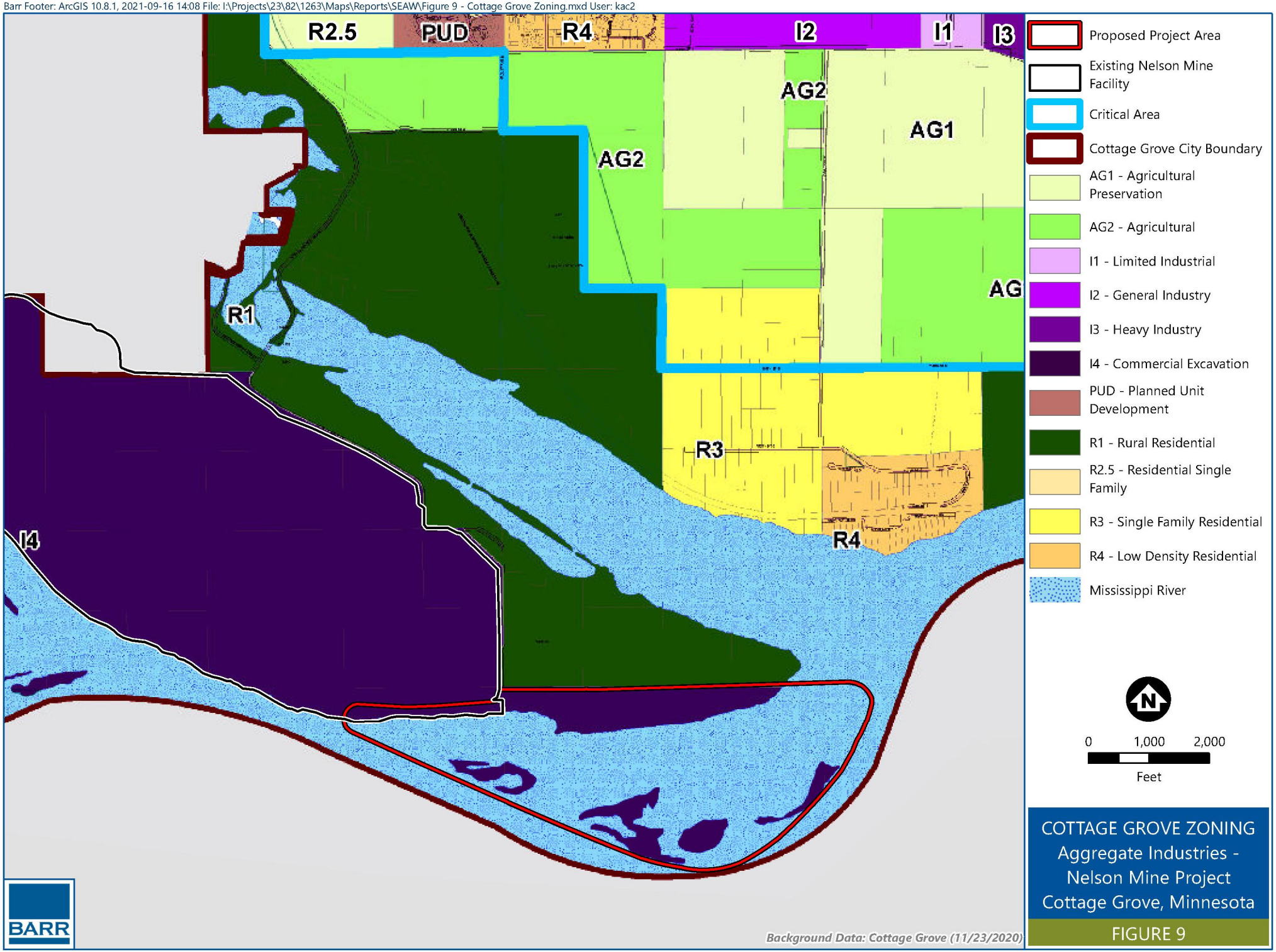
CURRENT AND FUTURE LAND USE

Aggregate Industries - Nelson Mine Project

Cottage Grove, Minnesota

FIGURE 8

Barr Footer: ArcGIS 10.8.1, 2021-09-16 14:08 File: I:\Projects\23\82\1263\Maps\Reports\SEAW\Figure 9 - Cottage Grove Zoning.mxd User: kac2

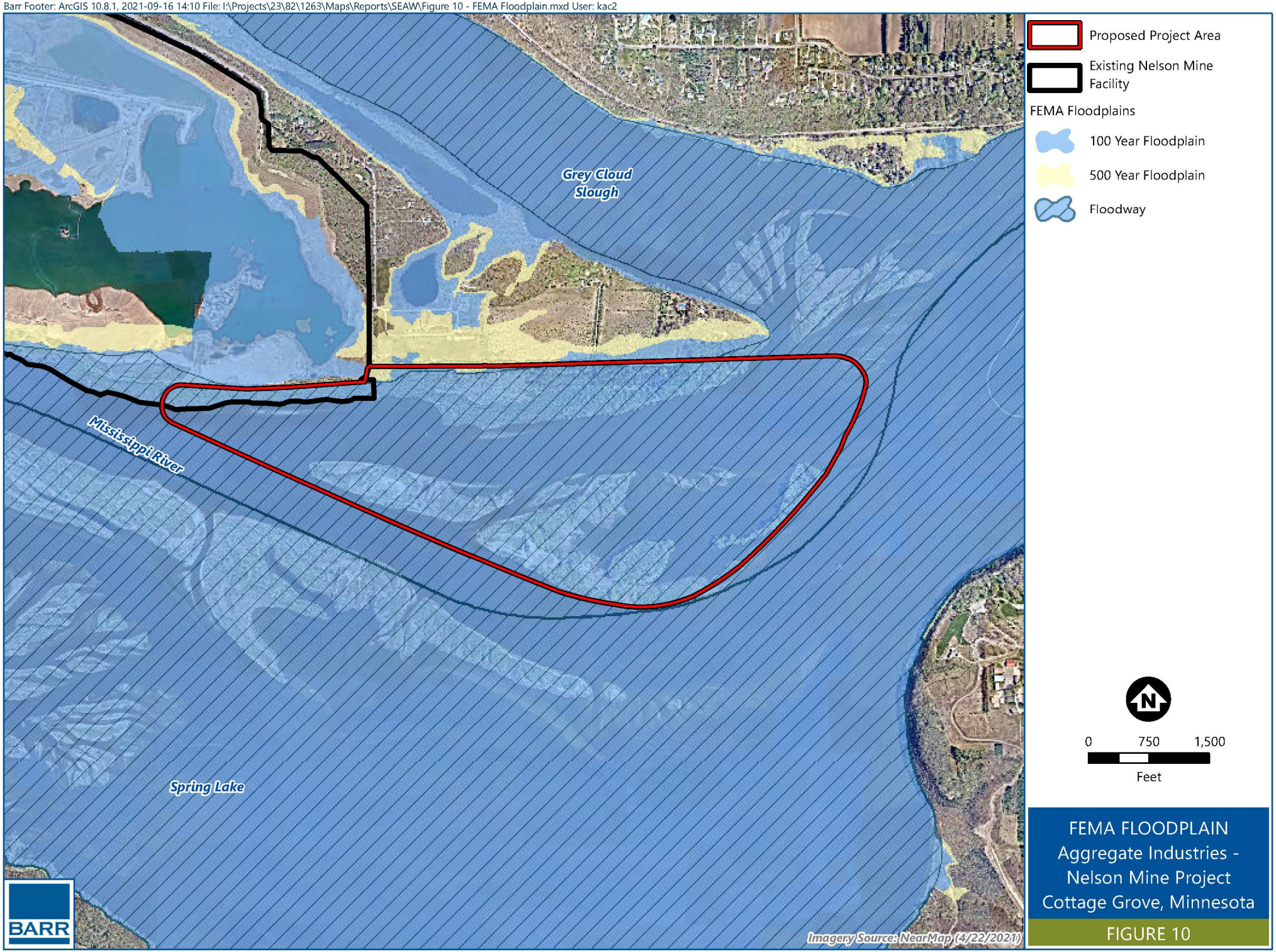


BARR

COTTAGE GROVE ZONING
Aggregate Industries - Nelson Mine Project
Cottage Grove, Minnesota

FIGURE 9

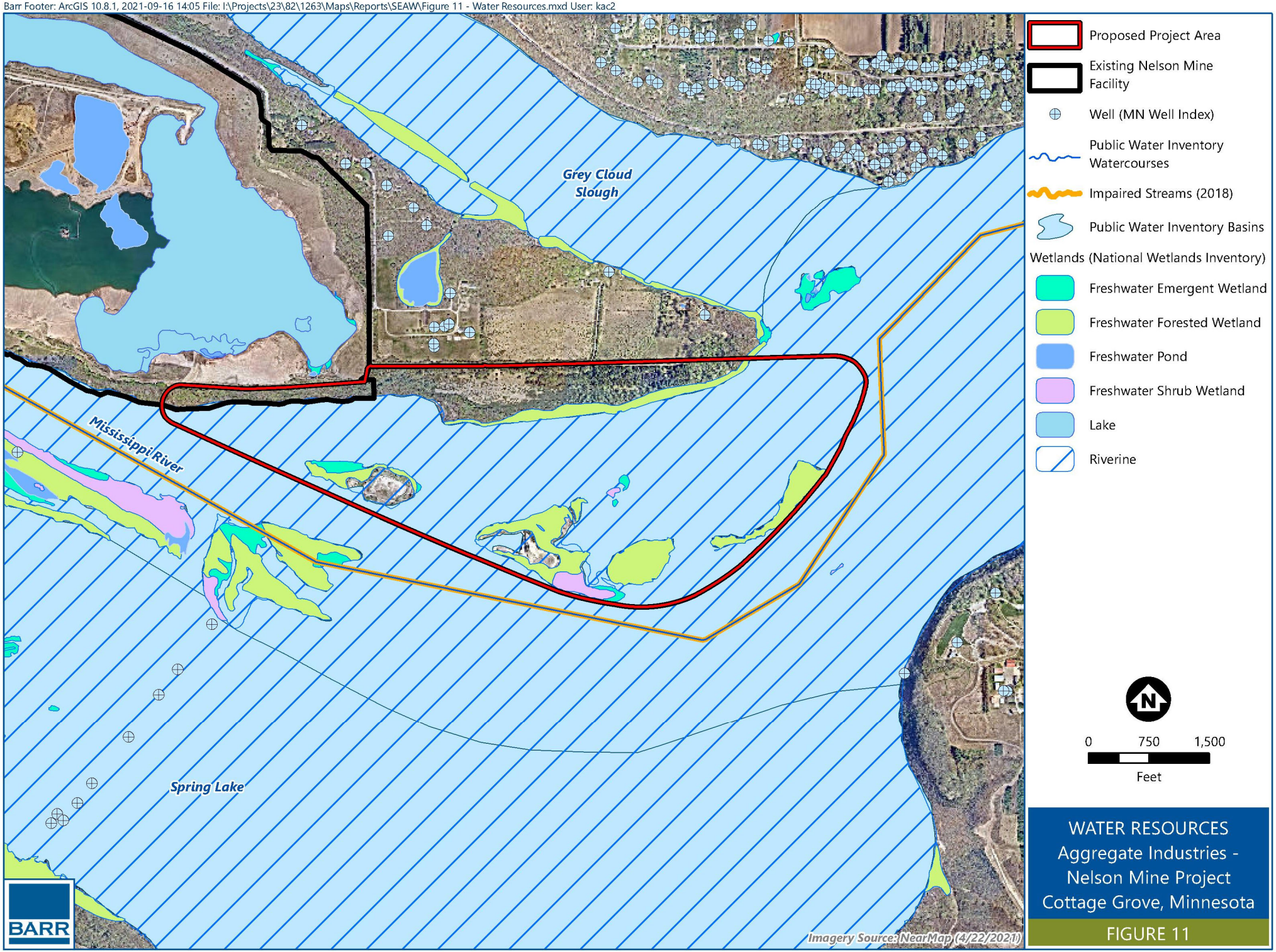
Barr Footer: ArcGIS 10.8.1, 2021-09-16 14:10 File: I:\Projects\23\82\1263\Maps\Reports\SEAW\Figure 10 - FEMA Floodplain.mxd User: kac2



BARR

FEMA FLOODPLAIN
Aggregate Industries - Nelson Mine Project
Cottage Grove, Minnesota

FIGURE 10

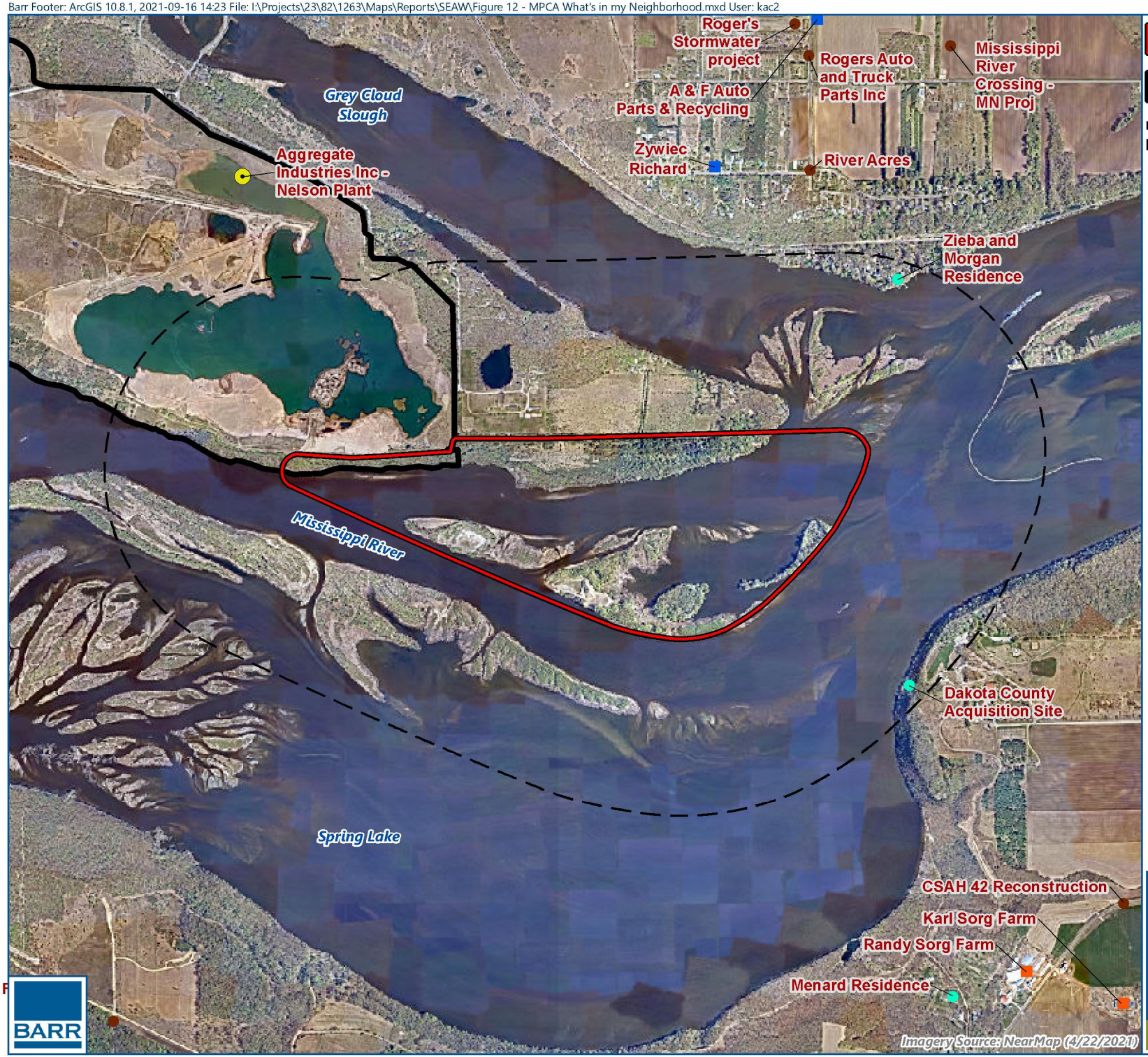


BARR

WATER RESOURCES
Aggregate Industries - Nelson Mine Project
Cottage Grove, Minnesota

FIGURE 11

Barr Footer: ArcGIS 10.8.1, 2021-09-16 14:23 File: I:\Projects\23\82\1263\Maps\Reports\SEAW\Figure 12 - MPCA What's in my Neighborhood.mxd User: kac2



Proposed Project Area

Existing Nelson Mine Facility

Half Mile Buffer of Proposed Project Area

MPCA Sites

- Multiple Programs
- Feedlots
- Hazardous Waste
- Investigation and Cleanup
- Stormwater

River Acres — MPCA Site Name

N

0 1,000 2,000

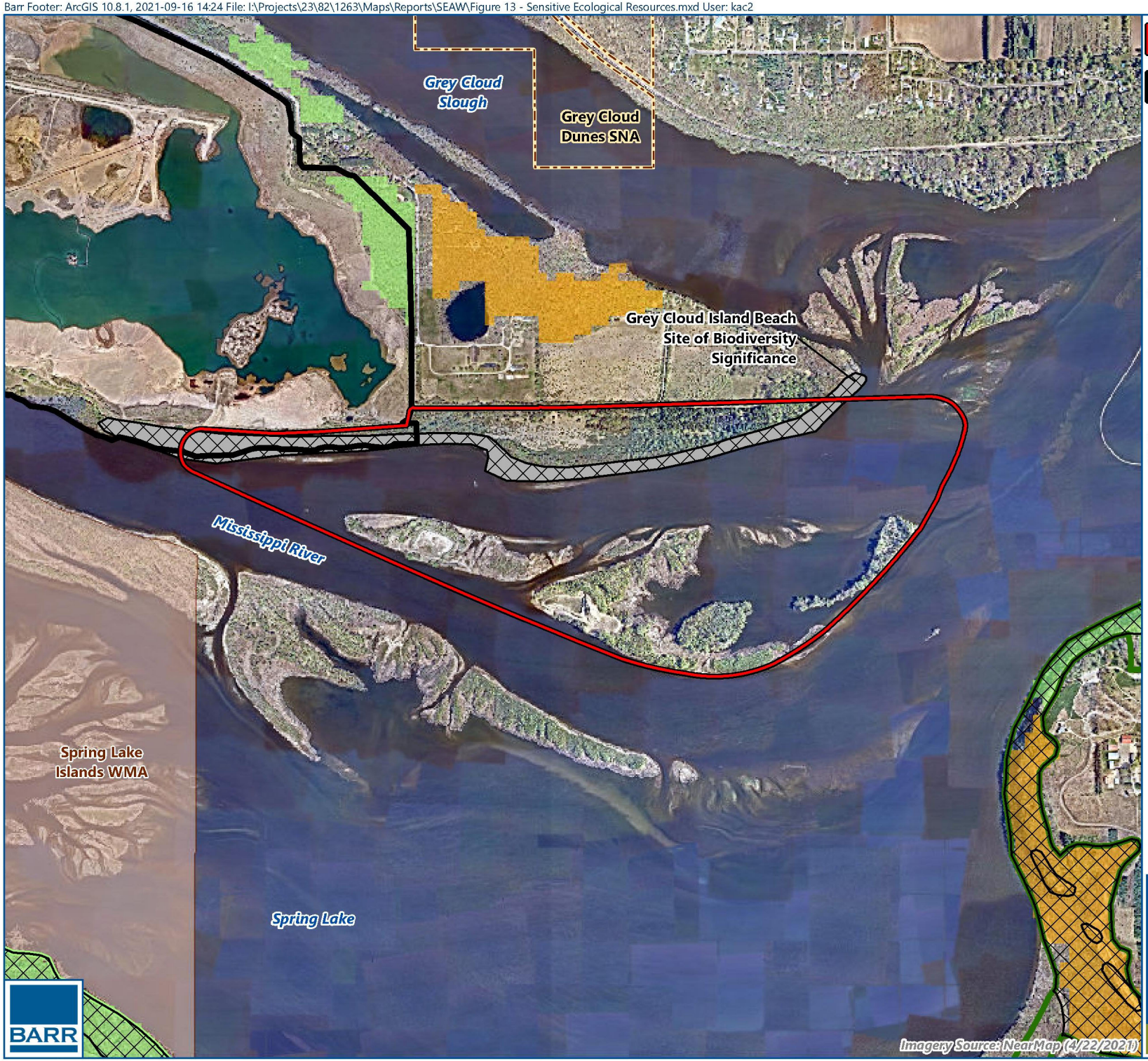
Feet

MPCA WHAT'S IN MY NEIGHBORHOOD
Aggregate Industries - Nelson Mine Project
Cottage Grove, Minnesota

FIGURE 12

BARR

Barr Footer: ArcGIS 10.8.1, 2021-09-16 14:24 File: I:\Projects\23\82\1263\Maps\Reports\SEAW\Figure 13 - Sensitive Ecological Resources.mxd User: kac2



Proposed Project Area

Existing Nelson Mine Facility

Scientific and Natural Area Boundaries (SNA)

State Wildlife Management Area (WMA)

Native Plant Community (Minnesota Biological Survey)

Sites of Biodiversity Significance (Minnesota Biological Survey)

- High
- Moderate
- Below

Central Region Regionally Ecological Significant Areas

- Moderate Ecological Score
- High Ecological Score

N

0 750 1,500

Feet

SENSITIVE ECOLOGICAL RESOURCES

Aggregate Industries - Nelson Mine Project

Cottage Grove, Minnesota

FIGURE 13

BARR

MINUTES

COTTAGE GROVE CITY COUNCIL — March 2, 2022

COUNCIL CHAMBER
12800 RAVINE PARKWAY SOUTH

REGULAR MEETING - 7:00 P.M
COUNCIL CHAMBER

1. CALL TO ORDER

The City Council of the City of Cottage Grove, Washington County, Minnesota, held a regular meeting on March 2, 2022, at Cottage Grove City Hall, 12800 Ravine Parkway. Mayor Pro Tem Dennis called the meeting to order at 7:00 p.m.; he stated Mayor Bailey would not be here tonight.

2. PLEDGE OF ALLEGIANCE

The audience, staff, Mayor Pro Tem, and City Council Members stood and recited the Pledge of Allegiance.

3. ROLL CALL

City Administrator Jennifer Levitt called the roll: Mayor Pro Tem Dennis - Here; Council Member Khambata - Here; Council Member Olsen - Here; Council Member Thiede - Here. Mayor Bailey was not present. Administrator Levitt noted a quorum was present.

Also present were: Jennifer Levitt, City Administrator; Amanda Johnson, City Attorney-LeVander, Gillen & Miller, PA; Ryan Burfeind, City Engineer/Public Works Director; Gretchen Carlson, Director of Economic Development; Christine Costello, Director of Community Development; Pete Koerner, Public Safety Director; Jen Longaecker, Communications Manager; Mike Mrosla, Senior Planner; Robin Roland, Finance Director; Emily Schmitz, Senior Planner.

4. OPEN FORUM

Mayor Pro Tem Dennis opened the Open Forum.

Washington County Commissioner Wayne Johnson, 7862 62nd Street South, Cottage Grove, stated as a resident of Cottage Grove he wanted to thank the Council for the leadership and the service they provide to the community. As a commissioner, he thanked them for their partnership as we move forward with all of the projects that are taking place; we know that by working together we'll get these projects done.

Commissioner Johnson spoke about redistricting, which has changed many legislative boundaries; with the County, it has resulted in having to redraw some lines. That will be done after the City lets us know what the precinct boundaries will be, prior to the end of March, and in April we'll discuss the new commissioner boundaries. Woodbury will be affected the most because they had the most growth; so, what will happen for Cottage Grove, or District 4, is we're going to be moving north or west, more into Woodbury. We have to split up Woodbury a little bit; there will be the same number of commissioners, it's just a bigger territory. Any commissioner who has a 5% change in the population of their district is required to run for election. Washington County has reached out to City staff to offer any assistance we can give, moving forward, as this is figured out.

Commissioner Johnson stated they recently received a request for an update on some ongoing projects in Cottage Grove. He stated as a Cottage Grove Council Member, he really didn't know how County government worked or about the partnership between the City and the County. Former Commissioner Bigham had told him when one community succeeds, we all succeed. Washington County Public Works provided a list of County projects:

- $42M upgrade to The R & E Center, in Newport, where all garbage from Washington County and Ramsey County goes for processing and recycling; that's a win for District 4 and for both counties.
- St. Croix Bluffs will get a new boat ramp; it will benefit Cottage Grove and all of Washington County with public safety and access.
- The Mississippi Dunes conservation area is a recent project with the Land and Water Legacy Program; unfortunately, that program is running out of money because it's been so popular. Land and water benefits everybody; what a great opportunity for Cottage Grove to finally have an opportunity on the Mississippi.

Washington County takes calls from all communities and works together with them to get things done; specifically, the Southwest Arterial Study was moved forward due to Cottage Grove's request for the NorthPoint development. We partner with the City to make sure road improvements or changes work for your citizens.

Regarding the 100th Street partnership, he's spoken with Senator Klobuchar, staff of Senator Smith, and Congresswoman McCollum championing this project and asking for money. He'll be working with Representative Craig, and knows Cottage Grove is also working with her. With our partnership, we're working with the City on DNR requests and reaching out to lobbyists; our partnership is wonderful, and that's how we get things done. Whenever the City reaches out to us, as you previously did with the HERO Center, we'll find somebody or a way to help you.

Mayor Pro Tem Dennis thanked Commissioner Johnson for speaking to the Council tonight; we appreciate your leadership and that of the other County commissioners because it takes a team of people to bring a good return. All of us in this community appreciate all that you do on behalf of our area.

Council Member Olsen thanked Commissioner Johnson for the list of projects he'd provided tonight; one thing he didn't see on the list was a library. With the Capital Improvement Plan (CIP), he believed in approximately 2023 there was funding for the

Cottage Grove library; recently, he saw that had been moved out to 2028. He asked what had changed and why.

Commissioner Johnson stated that was a great question; the key is always to be on the CIP. If you're on the CIP, your project is going to get done sometime, sooner or later. Our CIP is done in partnership with the City; Cottage Grove's library was the last library where the County actually bought the property and built the library. Going forward, it's a partnership where the City provides the land. There was a discussion whether it should be a new library or a rebuilt library. We wanted to partner with the City so we put it on hold for the bond referendum decision, and will wait for the City to say they want to discuss it again. The year 2028 isn't the real issue; it's just the fact that it's on there. Things on the first year of the CIP are pretty solid, but beyond there, things move forward and back. The key is to make sure it's still on the CIP; when Cottage Grove is ready to have more discussion about the library, we're ready.

Council Member Olsen thanked him for that very helpful information, and noted everybody is competing for the same dollars. The CIP has to be mapped out for each community from a timing perspective, but clearly there's a funding element, too.

Commissioner Johnson stated the first step is for Cottage Grove to reach out and say you're ready to start talking, and then we can start looking at where to plan for that money and also what location would best serve the community.

Council Member Khambata stated as a citizen, one thing that's been bothering him for the last few years has been a lack of affordable housing. He's found to get more government funding, Cottage Grove is behind on some things that would make us more attractive for those dollars; one of those is public transit. With the increased investment in the new transit hub coming to Woodbury, he asked if the County would be bringing any transit dollars in the southern end by trying to build more routes.

Commissioner Johnson replied regarding the Gold Line, we recently reached a major milestone in being able to submit to the Federal government for funding going forward; that's designed to set us up for 2025. Senator Bigham had set up a Zoom call with the Metropolitan Council; they're a big controller of transit in the Twin Cities. One of the things asking for bonding, year after year, is a test phase for what we call the Red Rock Corridor; that's where funding would be provided to see if there is a need for that bus route. The Gold Line is really a starting point with that; it's designed to see if that route would go into one of the locations in Gold Line and then go into St. Paul. Right now, that's at the mercy of the Met Council, as they're trying to figure out where the world of transit is going right now. In the meeting with Senator Bigham and the Met Council, he asked when they saw us getting back to 2019 routes. They really didn't know; that's what they're trying to figure out. They shut down many stations throughout the Twin Cities because of lack of bus drivers, lack of riders, people working from home and staying home, they're trying to figure out where they're going to be. Until they figure that out, they don't know if they'll even be able to open up the Newport transit station or even the Forest Lake transit station. We just had a workshop on that. Washington County owns those two transit stations; Dakota County doesn't own any, so we're unique in that way. The Met Council has to come back and tell us that they're willing to provide the buses and ready to have a bus route because they have drivers and

capacity; so, that's where it is. They said they're going to start studying it, so we're waiting for that study. He'd say it will be after the Gold Line is set up before there's any discussion of bringing anything further down. County is ready to help; we stepped up with the Gold Line, along with Ramsey County, because we want to get that done. The Met Council still has to provide the buses and the bus drivers. He knows how important it is for some of the manufacturers and warehouse areas to get people down here, but we're still waiting to hear from the Metropolitan Council.

Council Member Khambata asked if he knew of a timeline for some sort of direction to be given by the Met Council. Commissioner Johnson replied at the last meeting we had with them, they said they were going to start their own study. They didn't see us getting back to 2019 for at least three years, and that was their best guess.

Council Member Khambata asked if the transit hub in Newport were to close, if that would be a temporary or permanent alteration to scheduling; he asked if that was strictly driven by a lack of buses and drivers. If it closes, would we have to go back to the Met Council and try to get those routes back?

Commissioner Johnson clarified that that building is closed now; right now, it's only being used for library lockers for people. We would need to have the Met Council come back and say we're going to use it; on their own, they've kind of started excluding that location because of lack of riders, and that's big. They could come back with drivers, but ridership is what's going to convince them to open it up. They could bypass it, as it was originally set up for the development occurring in Newport; so, maybe it depends on workforce housing. We're not going to take any quick action; we're looking long term. At its peak, there were only 25 cars showing up there; Forest Lake had about 125. Cottage Grove is very busy. There's going to be a big discussion about why isn't it getting riders, what it will take to get more riders, and will the Met Council cooperate and put a bus there; that's what has driven Senator Bigham into many discussions with the Met Council because they don't even go there for the State Fair anymore.

Council Member Khambata thanked him for that very informative answer. He stated it would be very helpful if there would be more routes in Cottage Grove to help us score some points on that workforce housing.

Mayor Pro Tem Dennis thanked Commissioner Johnson for being here tonight to share a report on some projects.

Commissioner Johnson stated he lives here and is very proud of his community. If there are any questions or if you'd like him to visit with the Council more often regarding any upcoming projects, he's only a phone call away.

As no one else wished to address the Council, Mayor Pro Tem Dennis closed the Open Forum.

5. ADOPTION OF AGENDA

Motion by Council Member Olsen to adopt the agenda; second by Council Member Thiede. Motion carried: 4-0.

6. PRESENTATIONS - None.

7. CONSENT AGENDA

A. Approve the February 2, 2022 City Council Regular Meeting Minutes.
B. Approve the February 16, 2022 City Council Regular Meeting Minutes.
C. Appoint Lise Rediske to the Public Services Commission for a two-year term ending 2-29-2024.
D. Appoint Lisa Kons to the Public Services Commission for a two-year term ending 2-29-2024.
E. Receive response from City Attorney Land to Open Forum comments at the February 2, 2022 City Council Meeting regarding the former Mississippi Dunes Golf Course property.
F. Authorize architectural services agreement with Wold Architects and Engineers for design development of the Glacial Valley Park building.
G. Accept the speed authorization from MnDOT changing the speed of Military Road to 45 MPH from Jamaica Avenue to the cul-de-sac approximately 3,200 feet southeast.
H. Adopt Resolution 2022-028 awarding the 2022 City-Wide Sweeping project to the low quote supplied by Pearson Bros, Inc., for $115 per hour.
I. Adopt Resolution 2022-029 approving the final payment to Mineral Services Plus, LLC for the Granada Avenue Residential Well Sealing Project in the amount of $8,207.51.
J. Receive information on the Designated General Fund Balances at December 31, 2021.
K. Adopt Resolution 2022-032 to apply for the MN Department of Natural Resources Outdoor Recreation Grant Program for up to $300,000 to be used for public park and open space land acquisition at Mississippi Dunes.
L. Approve the issuance of rental licenses to the properties listed in the attached table.
M. Adopt Resolution 2022-030 approving the plans and specifications and establishing a March 24, 2022 bid date for the Goodview Avenue Water Main Extension Project.
N. Adopt Resolution 2022-031 approving the plans and specifications and establishing a March 24, 2022 bid date for the Low Zone Raw Water Main Project.
O. Adopt Resolution 2022-033 approving the plans and specifications and establishing a March 31, 2022 bid date for the Parkview Pointe Final Street Improvements.
P. Approve Resolution 2022-035 adopting the Business Park AUAR Update and Mitigation Plan as the required five-year update to the 2018 AUAR pursuant to Minnesota Rules, part 4410.3610, subpart 7.

Council Member Olsen wished to pull Items C and D, Public Service Commissioner Appointments, on the Consent Agenda for further comment and/or discussion.

Council Member Olsen stated Items C and D are both commissioner appointments for the Public Service Commission, which oversees both Public Works and Public Safety. Recently, two of our long-term commissioners on that board stepped down as a result of timing out. He explained the voluntary Advisory Commissions process: You're appointed to those commissions for a specified period of time. At the end of a specified period of time, usually six years, you're asked to step away from the commission for a minimum of one year, at which point you have the ability to reapply to join an Advisory Commission. That one-year hiatus is intended to help open up spots for other interested citizens to participate in the government process as an Advisory Commissioner. Commissioner Bob Campbell and Commissioner Kent Griffith have timed out; so, they're both on their one-year hiatus. He doesn't know if they'll reapply, but he hopes so, as they're both very knowledgeable gentlemen and long-term residents of Cottage Grove. Kent's expertise is in EMS; Bob's expertise is as a team member for Public Works, in water and utilities, now retired. We are now looking to appoint Lise Rediske and Lisa Kons to the Public Services Commission, each for a two-year term, as replacements for Kent Griffith and Bob Campbell. Lise Rediske has previously served on our Planning Commission so she's certainly knowledgeable about the commission process; Lisa Kons will be serving her first role as commissioner. They have a very important role to play in advising the City Council. He asked his colleagues to please vote to approve both of their commission appointments.

Mayor Pro Tem Dennis thanked both Lise Rediske and Lisa Kons for their interest to volunteer for the City.

Motion by Council Member Khambata to approve the Consent Agenda; second by Council Member Thiede. Motion carried: 4-0.

8. APPROVE DISBURSEMENTS

   A. Approve payments for the period of 2/11/2022-2/24/2022 in the amount of $1,713,888.20.

Motion by Council Member Thiede to approve disbursements; second by Council Member Khambata. Motion carried: 4-0.

9. PUBLIC HEARINGS - None.

10. BID AWARDS - None.

11. REGULAR AGENDA

   A. Aggregate Industries - Scoping Environmental Assessment Worksheet
   Staff Recommendation: Adopt Resolution 2022-034 authorizing distribution of the Aggregate Industries Scoping Environmental Assessment Worksheet.

Senior Planner Emily Schmitz stated our community has not seen this for some time, as it relates to a Scoping Environmental Impact Statement (EIS) and Environmental Assessment Worksheet (EAW) for Aggregate Industries. She stated Peter Miller, Innovation Business Development Leader, and Beth Elliott, Senior Urban Planner, both from Stantec, would provide us with a bit more detail on this tonight, what it is, and how the project works. Aggregate Industries and Barr Engineering will also provide a detailed overview of the project.

Peter Miller stated he and Beth Elliott are assisting the City with this project for Aggregate Industries. He will review the EIS process, and the Aggregate Industries' consultant will tell you about the project itself. Mr. Miller stated he and Ms. Elliott are working closely with Administrator Levitt and Planner Schmitz on this to form the team that's helping Aggregate Industries with this project. The City has also contracted with Peder A. Larson, Environmental Attorney, to provide legal assistance.

Mr. Miller stated the same rules that govern an EIS in the State of Minnesota also govern environmental review, including an EAW. EIS goes one step further than an EAW: It includes alternatives to a proposed project; that's a big part of an EIS. In order to have alternatives, you need to have a purpose and need, and that's being developed as part of this scoping document that we've prepared. The entire EIS process includes scoping, which we're talking about tonight. It also includes publishing an EIS document, receiving public comments from that, making changes to the document, and then ultimately looking for issuing an adequacy determination; that will be your charge here.

In Minnesota Rules 4410, there are mandatory requirements for projects for either an EAW or an EIS. In this case, the scope and magnitude of this project is such that it is a mandatory requirement for an EIS. Minnesota Rules state that for this type of project, non-metallic aggregate mining, local government is the Responsible Government Unit (RGU). Responsibilities of the RGU: You're need to work with the proposer, to get though this process, prepare the documents, hold the public hearings, receive comments, and publish those documents out to the public. Ultimately, you're going to determine if environmental effects were adequately addressed and analyzed. As part of that, the City has formed a Technical Advisory Committee (TAC) to help facilitate the process. Included in this, the City Council recently approved an income agreement so all of our time, the staff time, through Rule, is paid for by the proposer. After the adequacy determination for environmental review is complete, the City will make a decision on approving a mining permit. Aggregate Industries currently has a mining permit through the City, and they've had it for several years. This would be an addition and extension to that mining permit.

Mr. Miller explained the three steps of this process:

Step 1, Scoping: We create what's called a Scoping EAW, so it's the same EAW but it's intended to look at what needs to be studied further in the EIS. It will talk about the project and potential environmental effects. We then issue a second document, The Scoping Decision Document (SDD), where we look at things that need to be studied further and what alternatives need to be studied further and we also develop a very

succinct purpose and need. Tonight we're here to get the resolution to publish those documents with the Environmental Quality Board (EQB).
Step 2, Create a Draft EIS Document: That also goes through a public comment period.
Step 3: Issue a Final EIS.
Mr. Miller stated regarding the TAC that was formed, the membership includes State agencies, Counties, the Watershed District, Federal agencies, as well as other interested parties. We've held one meeting so far, they're being held monthly; at the first meeting, there were about 24 attendees, so a lot of interest. They're representing their agencies, but they're not there to have support or be an opponent to the project; they're just there to help the process and inform what they think needs to be analyzed and in what detail.

Schedule for the Scoping: We hope with passing of the resolution tonight we'd be able to put the Scoping EAW and the SDD on public notice in mid-March. We would then hold a public hearing at a Planning Commission Meeting on March 28 so we can get public input. We'd take those comments, revise the EAW and the SDD as needed to come up with a final SDD, and then we'd issue the release and get into the EIS process; we expect that to be in June.

Shanna Brown, Barr Engineering Company, stated she's working with Patti Bestler and Tom Schmidt of Aggregate Industries; Barr's role is to help them compile the information that's needed to support the City and Stantec through the EIS process. She will be speaking tonight on behalf of Patti and Tom for the proposed project.

Ms. Brown stated the proposed project is located on Lower Grey Cloud Island, immediately adjacent to the existing Nelson Mine Facility, and that facility is currently operated by Aggregate Industries. Cottage Grove proper is to the north; the navigation channel of the Mississippi River is to the south as is Spring Lake, and Baldwin Lake is to the west. The specific area being targeted by the proposed project is outlined on the diagram displayed, and that's what we're going to focus on.

Ms. Brown stated Aggregate Industries has been mining at the current Nelson Mine since the 1950s. They continue to provide an important source of high-quality aggregate to support manufacturing concrete for a number of high-profile projects in the Twin Cities metro, including the new Stillwater bridge, US Bank stadium, and other projects that have an intense need for concrete use. However, Aggregate resources are fixed and finite; that is what's prompting Aggregate Industries to propose mining in a new location. She stated Aggregate Industries is proposing to extend the life of its mine by shifting its mining location to an area that we call the backwaters area of the Mississippi River. This area is being considered because it allows Aggregate Industries to maximize and continue using its existing facilities and infrastructure already in place on Grey Cloud Island. This area also contains a similar type and quality of aggregate source to that which Aggregate Industries is currently mining. She stated the area of interest is about 395 acres in size.

Ms. Brown stated Aggregate Industries' proposed project is to move the mined area that supports the Nelson Mine Facility onto a privately-owned piece of land in the backwaters area of the Mississippi River. This area retained private ownership after

construction of Lock and Dam No. 2; it's not owned by the Army Corps. Aggregate Industries has an agreement with the landowner to do mining in this location. Shifting the aggregate mining to this location will allow Aggregate Industries to continue to use their existing company-owned processing plant, conveyor network, and barge-loading transportation facilities already in place on Lower Grey Cloud Island. Within that almost 400-acre project area, Aggregate Industries is proposing to mine about 230 acres of that; they will do it using their existing equipment. The clamshell unit you might have seen out there will be moved to the new area, as a channel will be cut to connect the existing mined area to this proposed backwater area. Since dredging doesn't occur in the winter, there would be winter slips constructed to store that equipment until the conditions are suitable to begin mining again. The dredge unit would extract aggregate from depths up to 200 feet deep; the material that comes up would mostly be dewatered in the bucket that it comes up in. It would preliminarily be crushed into sizes that are a little bit smaller if needed, just to make them more manageable as they go onto that conveyor network. The dewatered aggregate would first go onto a floating conveyor unit, so that's how it would get from the water up to the mainland. Then, it would travel on an upland conveyor unit back to the processing facility where it would be further crushed and prepared for distribution, mostly by barge, but some would still be transported by truck. Once it gets to the facility, just like what happens now, it would be crushed for size, washed, screened, and then transported to market. Sand would be a byproduct of this; the sand would be stockpiled and saved for use in reclamation following the different mining phases.

This project as proposed depends on a few variables including the quality of the aggregate and the layers that it's in once you start to acquire it, the economy, and the rate of mining, etc. The shift in mining location is anticipated to provide about 20-to-25 additional years of mining at the facility. It's estimated to produce about 21 million tons of aggregate to support the local Twin Cities metro economy.

Ms. Brown stated the project would be built in phases, as it would be a big undertaking to do it all at once. It would begin with moving the dredge unit out to the backwaters area, the conveyor network would need to be set up, and there would also be a couple of barrier dikes that would be constructed for the project; those would cap off the Army Corps of Engineers constructed islands on the river to protect this backwaters area during mining. It would protect from higher flows of the river, higher velocities from ice, etc. while mining is taking place. The mining is proposed to occur from west to east, so the western area is targeted to take about three-to-five years to mine, simply because of size, as it's the smallest phase, and then would progress from there towards the east.

Just as the mining would occur in phases, the reclamation is also proposed to occur in phases. So, one mined-out phase would be reclaimed as the next phase of the project was starting to be mined; that's where the excess sand would be used to backfill and recontour to the extent possible. That being said, though, there is quite a large volume of crude material proposing to be extracted from here. Based on current estimates, mining is expected to generate about a 100-foot deep water body in the central portion of that mined area unless additional backfill is found from an approved source to fill that in.

Ms. Brown stated the proposed project plans to mine the same type of aggregate at about the same rate, using the same facilities as what are currently in place. There'd be no changes to the type of mining equipment used at the processing facility or to the methods, the type of aggregate mined, the volumes, or the transportation network; all of that will remain similar to what it is today. Likewise, because there are all these similarities, there would be: No change in the labor force; Really very minimal construction needs in order to do this, as all of the equipment is there; Very limited changes in operations, in greenhouse gas, or traffic emissions. The thing that would change as a result of this proposed project is the location from where the aggregate is being sourced.

Planner Schmitz told the City Council that the only action needed this evening is to authorize the distribution of the Aggregate Industries Scoping Environmental Assessment Worksheet; that would allow us to publish in the EQB Monitor, which opens that up for comments to be received. In addition, public comment will be received at the public hearing to be held at the March 28 Planning Commission Meeting. Planner Schmitz stated they'd all field any questions from the Council.

Mayor Pro Tem Dennis thanked Ms. Brown for her very in-depth presentation. He stated he's spent some time talking about this with Administrator Levitt over the last couple of days; this is just the very beginning of what will be a lengthy, incredibly in-depth process.

Council Member Khambata stated his initial concerns were about how much longer this was going to extend the mine. He believed the last time the Aggregate Industries application came through the Planning Commission, he thought they'd initially indicated that mine might have more time left in it, unlike what was indicated here. He asked the applicant two questions: 1) As building has ramped up in the last couple of years, is the estimate of 20-to-25 years based on current trends or past trends, in terms of how long the mine will be operating; 2) How will that affect sediment moving downstream, but noted they'd answered that with the barriers being in place.

Mayor Pro Tem Dennis asked if a staff member would speak on the first question, but noted it will extend the mining time if this comes to fruition. As indicated, he thought it could be 20 years or maybe more.

Administrator Levitt stated she thought it would be best to have Aggregate Industries answer that; they have the current duration of their existing mining operation, and can explain the sequencing again regarding the 20-to-25 years.

Council Member Khambata stated his follow-up question to that would be if demand causes this mine to run out sooner than that, is there a late-phase plan or is this the last phase of the mine?

Tom Schmidt, General Manager, Aggregate Division of Aggregate Industries, stated geology is not an exact science; we've got some drill logs out there, we've got a general

idea of what's there, but that varies as you go through the deposit. Also, market demands vary as well. The 20-to-25 years is based on current trends right now; that would be the final piece of the Grey Cloud Island mining right there. When that reserve is gone, we would be done in that area.

Council Member Olsen stated every time we work with Aggregate Industries, we go through a pretty robust process. This is actually not his first EIS, so having been through this in the past, he concurs with what we were told, which is this will be extremely in depth. He knows what our residents will be keenly interested hearing about is whether or not this change in location will have any impact on truck traffic, as it proceeds through the City of Cottage Grove. We've had several instances where we've worked with our friends at Aggregate Industries; truck traffic has been a concern, it's been brought up previously. We had some roadways that failed us a little sooner than we expected because of the weight. He asked if that's a dialogue for now or later.

Administrator Levitt replied she thought Aggregate Industries could speak to the percentage that they ship via truck versus what they ship via barge; they could probably indicate how they see that trend continuing and where the demand is regarding their product.

Mr. Schmidt stated the vast majority of the material that comes off the island is barged up the river, so we anticipate that continuing. It's a great system to get that material into the heart of the cities where it's consumed. As the project is planned now, we don't anticipate seeing a large change in traffic or increase; the front gate stays where it's at and the routes they take continue as they are. He stated that's today, but 20 years down the road, when things are changing, we'll have to revisit, and that's through the permit renewal process. He stated that's what the plan is right now.

Council Member Thiede stated it seems like every time this comes up, it's another 20-to-25 years. Cottage Grove is growing pretty significantly and we have the most shoreline to the Mississippi River, but most of the accessible shoreline is on Grey Cloud Island. That probably doesn't apply to this in terms of how long we want to see Aggregate Industries mining out there so that we could take advantage of that land; he just thought he'd mention it, but there's another time for that discussion.

Council Member Khambata asked if five years was their estimated time that they're going to be at the current mining location, what does that do to their timeline for reclamation of that parcel and returning it to its previous state. There'd previously been talk about replanting native species, doing an Oak grove or something of that nature; how does your implementation of that phase of the parcel coincide with phasing out actual mining activity there?

Mr. Schmidt stated they're undergoing restoration activities all the time; as they mine, they shape the land, and they put things back. They're doing small projects every year and have been for many years on prairie plantings, Oak grove restoration, etc. Aggregate Industries is the mining company, but the property is owned by another entity, so we've got to work with them on what their final land use of the property is and

how that all shapes out. A little of that is the give and take with us and them, and others have a say in that as well.

Council Member Khambata stated that's what he wanted to know and thanked him.

Mayor Pro Tem Dennis stated what he's hearing and from his discussion with Administrator Levitt, the property owner has the legal right to make an application, which they're doing, and to go through this process. It will be a very lengthy process, and all parties understand that there is no guarantee that they would even receive that authorization from the higher levels, from the State, Army Corps of Engineers, or other groups. We're concerned on behalf of our community to get the best possible outcome for the people here; he felt that was a fair statement to make. This has been going on a long time, and there are plans for some potential growth taking place in that area with new housing developments and parks, etc. Washington County has some interest in seeing a park down there, so at some point it would be nice to see this thing come to completion. Again, for our part here, we are being asked to adopt this resolution, which is a legal aspect of their right to seek this permission and opportunity.

Council Member Olsen made a motion to Adopt Resolution 2022-034 authorizing distribution of the Aggregate Industries Draft Scoping Environmental Assessment Worksheet and Draft Scoping Decision Document; second by Council Member Thiede. Motion carried: 4-0.

12. COUNCIL COMMENTS AND REQUESTS

Council Member Thiede stated River Oaks will be having a presentation on their financial situation and their five-year plan. There are fantastic things going on there; starting Friday night, there's the annual Fish Fry. He personally knows it's a great place to go for dining. They're still taking reservations so go to River Oaks' website to find that information and make reservations.

Council Member Thiede stated he's been involved with Strawberry Fest for about 15 years now; we're actually going to have the festival this year, so they definitely need help on the committee. The next meeting will be on Monday, March 7, at 6:00 p.m., in the back room at Carbone's. He invited people who wanted to have fun and help out to please attend.

Council Member Olsen stated he's very excited about the Royal Oaks Fish Fry; he encouraged anyone who's looking for a wonderful Fish Fry to check out River Oaks.

Council Member Olsen stated at the next Council meeting, he will present a check to our Public Safety Board to help fund the Woolery Scholarship Fund, in honor of former Public Safety Director, Craig Woolery, now retired. He spoke of how he met Craig, worked with him, and stated he cannot speak highly enough of his character, his ability, and his leadership. Council Member Olsen and his wife partnered with the Public Safety Board and put together the Craig Woolery Scholarship Fund in Craig's honor. It

will help young people who want to pursue a career in public safety. They committed to a minimum donation of $500 each year to help fund some education for young people from the City of Cottage Grove or the surrounding area. A two-year degree with a public safety focus from Century College costs about $12,000; a law enforcement certificate has an additional expense of $5,400. We wanted to find some way to help offset those costs and encourage really talented young people to attend school to fill those critically-important roles. We're very blessed in the City of Cottage Grove to have an outstanding Public Safety team of police, fire, and EMS. He's speaking about this tonight because whenever we make a donation, we always ask if the public wants to get involved in some way; they can also make a donation or inform young people in our community that this scholarship exists. He encouraged anyone who's interested to contact a Council Member, anyone at City Hall, or our Public Safety Board President, Julie Rice; we'd be happy to help you with that. We'll be taking applications for the Woolery Scholarship sometime in April, and the scholarship awards will be given sometime in mid-to-late May.

Council Member Olsen thanked Council Member Dennis, who'd worked in law enforcement and is a strong supporter of Public Safety, as he, too, always makes a contribution to the scholarship fund. He's very grateful for that; he knows Council Member Dennis recognizes the importance of having great public safety first responders available to our residents.

Council Member Olsen stated the month of March is Women's History Month. He had an epiphany last night as he watched the State of the Union Address; for the very first time in the history of our country, we had a female Vice President and a female Speaker of the House sitting directly behind the President of the United States as he delivered his address. He felt it was very appropriate that that happened on the first day of Women's History Month. He recognized some of the wonderful contributors to our community over the years at the State Capitol: Former Senator Sharon Marko, former Senator Katie Sieben, current Senator Karla Bigham. He also recognized our former Mayor, Sandy Shiely, and all of the other powerful, talented, focused, hard-working women who help our City operate at such a high level every day. He invited Gretchen Larson, our new Economic Development Director, to talk about how she ended up in Cottage Grove.

Director Larson stated she moved here from Houston, Texas; most recently, she was a partner in a management consulting firm doing economic development services for governmental entities. Prior to that, she spent 18 years in local government service in several cities in the Texas area as an Economic Development Director, a city secretary, an Assistant City Manager, and several other positions. It's been a whirlwind of ten days here in Cottage Grove; Administrator Levitt and City staff have been fantastic in helping her settle into the new position. She summarized her recent activities:

- Toured the City with Administrator Levitt and the department heads;
- Met with a myriad of consultants who help the City do special economic development projects; she's very impressed with all of our consultants as there are some good people on the team;
- Started to review some near-term projects with Administrator Levitt;

- Meeting with all of the people in the Business Park, and hopefully will be getting the monthly meetings going again;
- Meeting with Cottage Grove businesses and is looking to develop a network of commercial real estate brokers, investors, and developers;
- Working with the Communications team to update all of the economic development sections of the website;
- Planning for the upcoming Spring Showcase in April;
- Working on the East Metro Economic Development Summit with Washington County CDA and other cities in May;
- Working on the plans for the annual ICSC conference.

Director Larson stated she's extremely impressed by the vision of the Council, of the City staff, the City Administrator, the citizen volunteers, and the citizens. It's been a very interesting ten days, and she's learned a lot. She's learned everybody is very passionate, which is a good thing. She promised that she'll always do her very best to meet or exceed the expectations and help you with your vision of progressive and responsible growth in the City; she's thrilled to be a part of the Cottage Grove community, and she thanked them for this opportunity to speak.

Council Member Olsen welcomed her to the team and wished her all the best. If there's anything any of us can do to be of service, just let us know.

Council Member Khambata stated he's had the opportunity to review several applications for our volunteer commissions over the last weeks. He stated as he had the opportunity to interview several of those individuals today, he's impressed, and it's really nice to see the community getting engaged. There are still opportunities for volunteers, so if you're interested, the best way to satisfy that interest is to get involved. We'd love for you to go online and fill out an application so we'll get a chance to look at it, and hopefully give you an opportunity to participate.

Mayor Pro Tem Dennis recognized Ryan Burfeind, Public Works Director/City Engineer, and City Administrator Jennifer Levitt, as last Friday, they had attended the annual ACEC Minnesota Engineering Excellence Awards where the City was recognized for a project that they'd worked on. He asked Administrator Levitt to share details about that.

Administrator Levitt stated the City of Cottage Grove, along with Stantec, were recognized at ACEC last Friday night with an Honor Award for our Ravine Parkway. Our Stantec partners provided us with a great design and were recognized by their peers with the pedestrian elements of the bridge, the landscaping feature, and the feel that we wanted to create a unique experience on the parkway. Our design and efforts there were recognized. It was a great tribute to an amazing team; it wasn't just one person, but it's a multitude of people who make a successful project. Our partnership with Stantec was recognized that evening.

Mayor Pro Tem Dennis stated we've got a great team across the board; people have been with us for many years, serve humbly in their jobs, and work hard every day. He wished that there was a way that the Council could communicate fully to our citizens how good the City of Cottage Grove is and how good we do, so let's make that happen.

13. WORKSHOPS - OPEN TO PUBLIC - None.

14. WORKSHOPS – CLOSED TO PUBLIC - None.

15. ADJOURNMENT

Motion by Council Member Khambata, second by Council Member Thiede, to adjourn the meeting at 8:20 p.m. Motion carried: 4-0.

Minutes prepared by Judy Graf and reviewed by Joe Fischbach, HR Manager/City Clerk.