



COTTAGE GROVE CITY COUNCIL

November 20, 2024

12800 RAVINE PARKWAY SOUTH
COTTAGE GROVE, MINNESOTA 55016

TRAINING ROOM - 6:00 PM

- 1 Call to Order
- 2 Regular Agenda
 - A Workshop - Park High School Site & Building Improvements
Staff Recommendation: Receive an overview of the proposed site and building improvements for Park High and Crestview Elementary Schools.
- 3 Adjournment



City Council Action Request

2.A.

Meeting Date 11/20/2024

Department Community Development

Agenda Category Action Item

Title Workshop - Park High School Site & Building Improvements

Staff Recommendation Receive an overview of the proposed site and building improvements for Park High and Crestview Elementary Schools.

Budget Implication N/A

Attachments	1.	Memo - Park High CC Workshop
	2.	PHS_Site Plan Review_Civil_11-08-2024



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

FROM: Emily Schmitz, Community Development Director

DATE: November 14, 2024

RE: Workshop – Park High School Site and Building Improvements

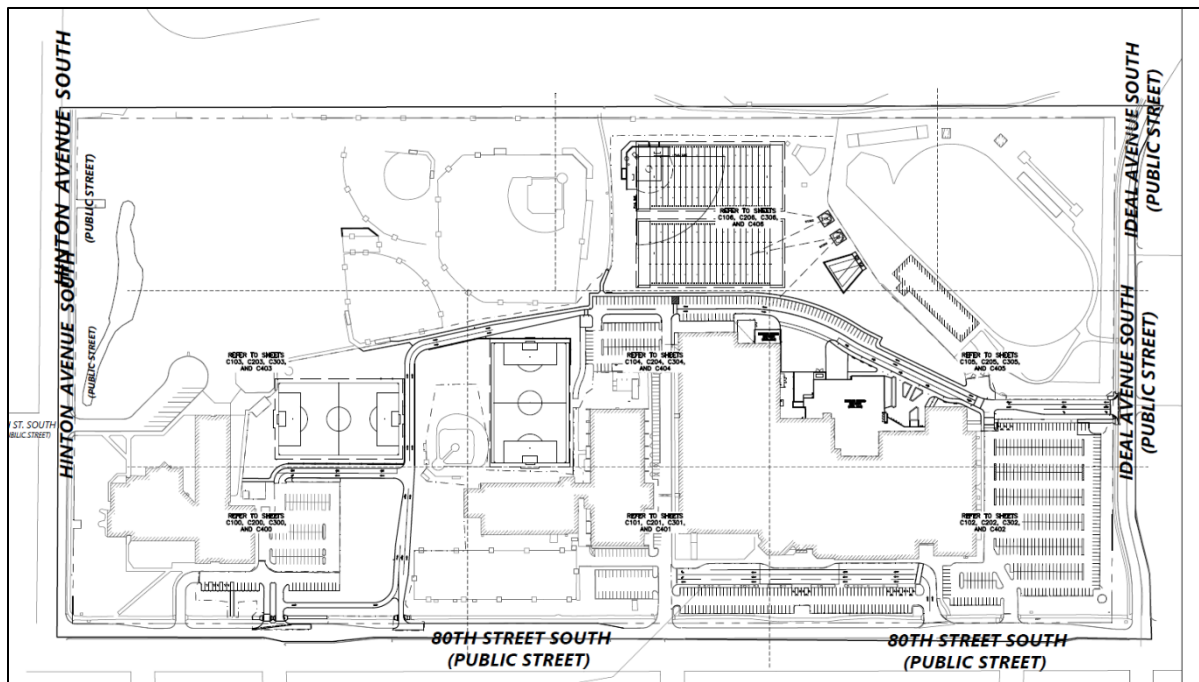
Background

South Washington County School District had a successful referendum in 2023 for a total of 15 projects across the District including improvements at Cottage Grove buildings at Cottage Grove Middle School, Oltman Middle School, Grey Cloud Elementary, Pine Hill Elementary, and Park High School. The proposed improvements include a cafeteria/kitchen expansion, reconfiguration of the secure entrance, administration, health and student services areas, as well as site traffic and safety improvements.

Building/Site Improvements

Site Improvements

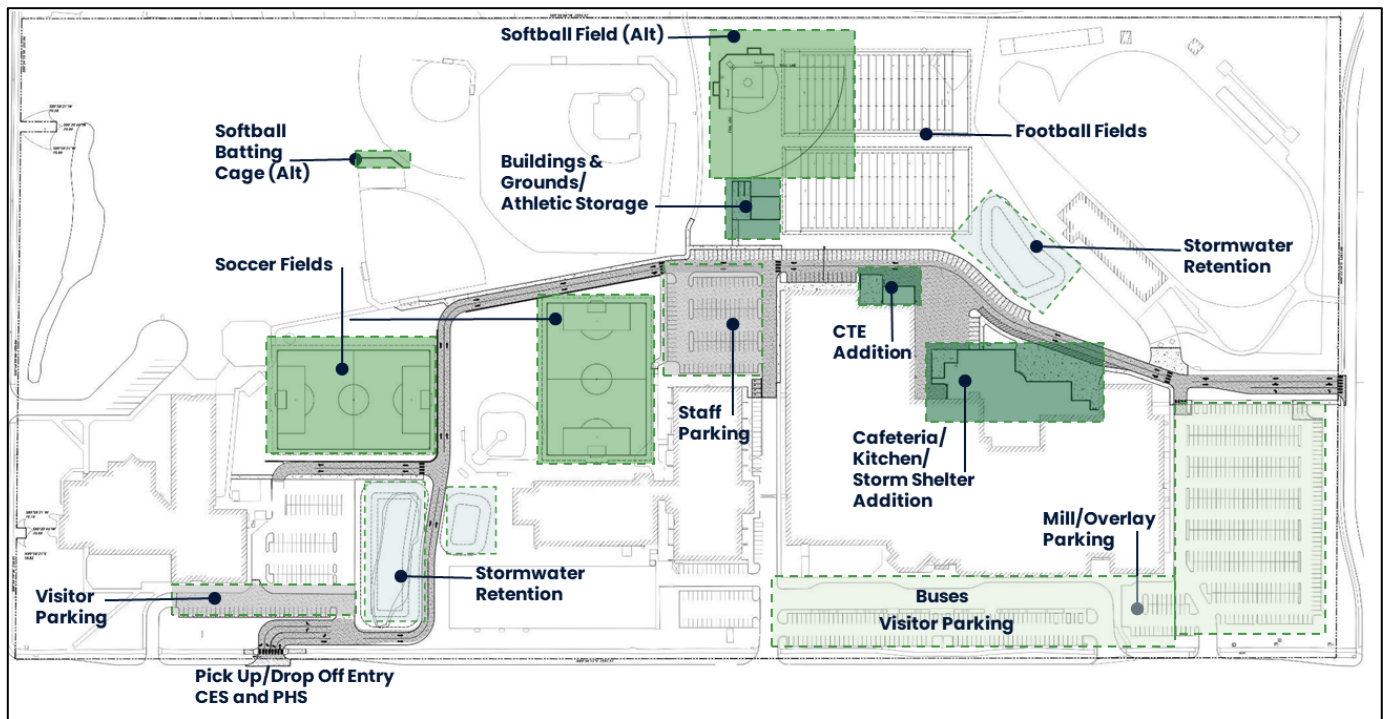
The School District recognizes challenges with site access and traffic circulation throughout the Park High and Crestview sites, therefore, are proposing a redesigned access and circulation for drop off and staff and student parking areas. Current circulation for drop off brings both passenger vehicles and bus traffic into the front of the high school through the staff parking area. The proposed redesign will help separate traffic flow by bringing drop off traffic to the rear of the Park High building exiting to Ideal Avenue, bus drop off at the front of the building and a separate student parking entrance on the east side of the site.



Proposed Site Entry and Roadway

Building Improvements

The District is proposing an addition to the rear of the Park High School building to expand the cafeteria and kitchen areas. The addition will support their current enrollment as well as future capacity. Additional renovation on the interior of the building includes additions to the CTE Industrial Arts to enhance curricular offerings, renovations to the science, arts and business rooms, and the creation of on-line learning space. The plans also propose relocating the administration and secure entry offices.



Proposed Building Additions

Project Schedule

The School District plans to complete their design and construction documents before the end of 2024 and get the project out for bid early 2025. Planned construction will start June of 2025 and planned in two phases to be complete summer of 2027. The proposed improvements will require a site plan review application be reviewed by the City. The application is planned to be reviewed by the Planning Commission at their meeting on November 25, 2024, and by the City Council at their meeting on December 4, 2024.

Recommendation

That the City Council receive an overview of the proposed site and building improvements for Park High School and Crestview Elementary.

PARK HIGH SCHOOL ADDITIONS & RENOVATIONS COTTAGE GROVE, MINNESOTA

PROJECT DIRECTORY

SCHOOL DISTRICT
SOUTH WASHINGTON COUNTY SCHOOLS
7362 E POINT DOUGLAS RD.
COTTAGE GROVE, MN 55016
DISTRICT CONTACT: KYLE UECKER
PHONE: 651-425-6299

CIVIL ENGINEER
BKBM ENGINEERS
6120 EARLE BROWN DRIVE, SUITE 700
MINNEAPOLIS, MN 55430
CONTACT: KEVIN BOHL, P.E.
PHONE: 763-843-0420
FAX: 763-843-0421

ARCHITECT
KOMA
2051 KILLEBREW DRIVE, SUITE 680
BLOOMINGTON, MN 55425
CONTACT: MARC R. DUBOIS
PHONE: 651-788-9018

ELECTRICAL ENGINEER
ISG
7900 INTERNATIONAL DRIVE, SUITE 500
BLOOMINGTON, MN 55425
CONTACT: SCOTT HUTCHINS, P.E.
PHONE: 651-451-4605

GEOTECHNICAL
BRAUN INTERTEC
11001 HAMPSHIRE AVENUE S
MINNEAPOLIS, MN
CONTACT: STEVE MOEN
PHONE: 651-666-9355

COTTAGE GROVE ENGINEERING
12800 RAVINE PARKWAY SOUTH
COTTAGE GROVE, MN 55016
CONTACT: AMANDA MEYER, P.E.
PHONE: 651-458-2848

CONSTRUCTION COMPANY
KRAUS-ANDERSON CONSTRUCTION COMPANY
501 SOUTH EIGHTH STREET,
MINNEAPOLIS, MN 55404
CONTACT:
PHONE: 612-332-7281

NATURAL GAS UTILITY
CENTERPOINT ENERGY
PHONE: 612-372-4727

ELECTRIC UTILITY
XCEL ENERGY
PHONE: 612-330-5500

SURVEYOR
WESTWOOD PROFESSIONAL SERVICES
12701 WHITEWATER DRIVE SUITE #300
MINNETONKA, MN 55433
CONTACT: CHRIS AMBOURN, R.L.S.
PHONE: 952-937-5150
FAX: 952-937-5822

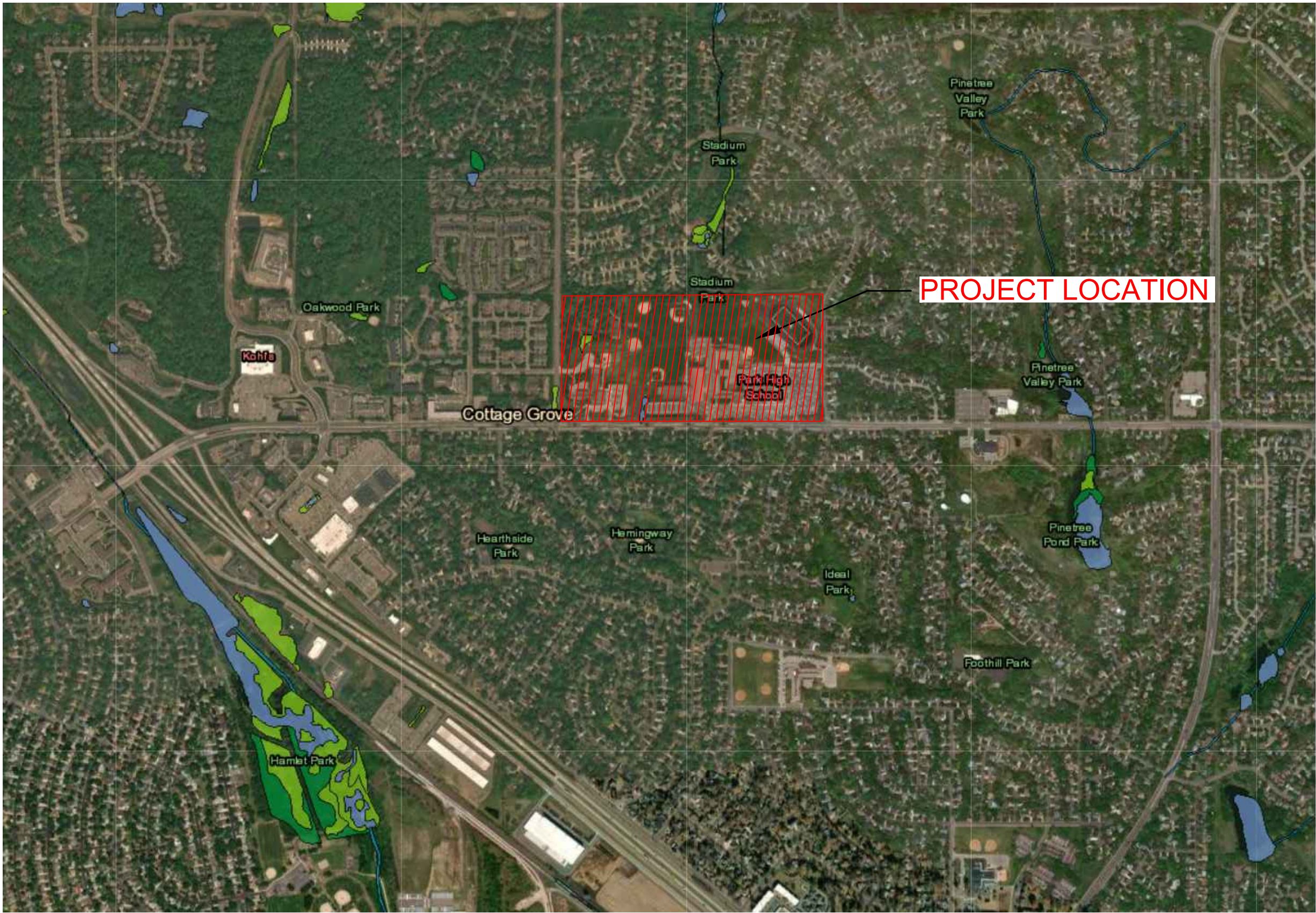
WATERSHED DISTRICT
SOUTH WASHINGTON
WATERSHED DISTRICT
2302 TOWER DR.
WOODBURY, MN 55447
CONTACT: JOHN LOOMIS
PHONE: 651-714-3714

LANDSCAPE
CALYX DESIGN GROUP
475 CLEVELAND AVENUE NORTH, SUITE 101A
SAINT PAUL, MN 55104
CONTACT: BEN HARTBERG, PLA/ASLA/LEED AP
PHONE: 651-788-9018

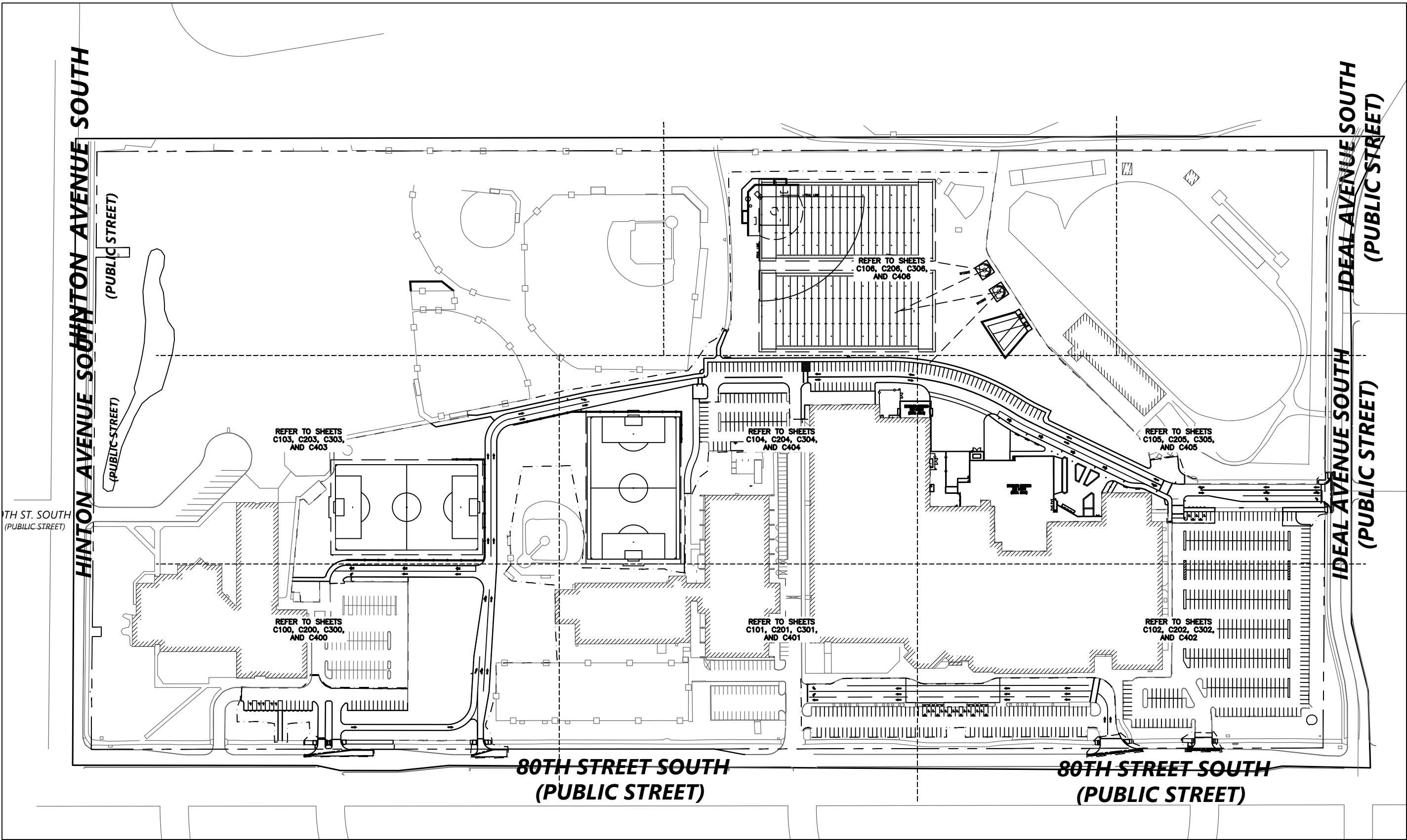
**TELEPHONE AND
CABLE UTILITIES**
CENTURYLINK
800-526-3557
COMCAST
651-222-3333
HUGHESNET
651-458-0315

DRAWING INDEX

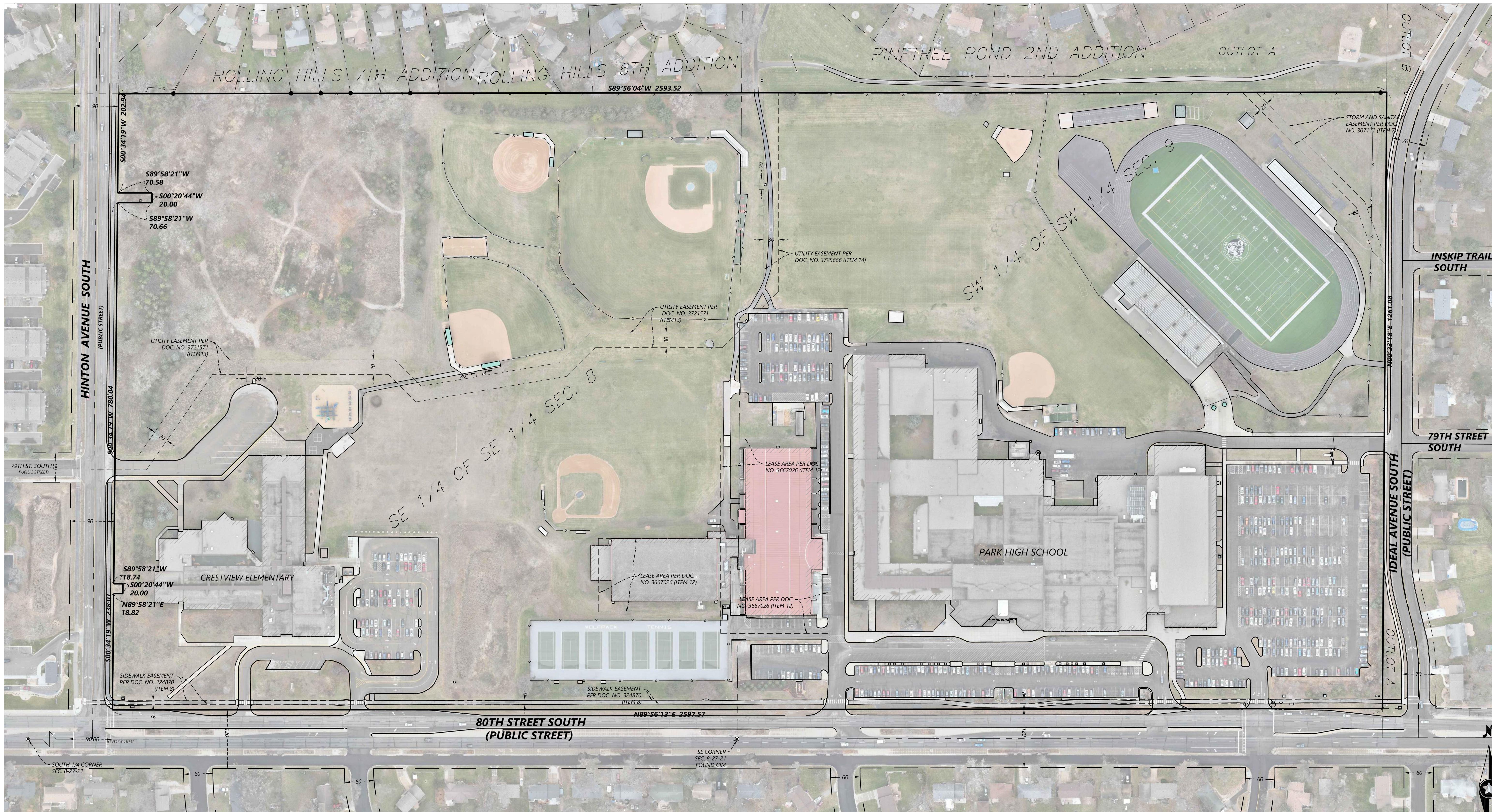
C000	CIVIL TITLE SHEET	C300	UTILITY PLAN
1 OF 6	ALTA/NSPS LAND TITLE SURVEY	C301	UTILITY PLAN
2 OF 6	ALTA/NSPS LAND TITLE SURVEY	C302	UTILITY PLAN
3 OF 6	ALTA/NSPS LAND TITLE SURVEY	C303	UTILITY PLAN
4 OF 6	ALTA/NSPS LAND TITLE SURVEY	C304	UTILITY PLAN
5 OF 6	ALTA/NSPS LAND TITLE SURVEY	C305	UTILITY PLAN
6 OF 6	ALTA/NSPS LAND TITLE SURVEY	C306	UTILITY PLAN
C100	SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN	C307	FIRE HYDRANT EXHIBIT
C101	SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN	C400	PAVING AND GEOMETRIC PLAN
C102	SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN	C401	PAVING AND GEOMETRIC PLAN
C103	SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN	C402	PAVING AND GEOMETRIC PLAN
C104	SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN	C403	PAVING AND GEOMETRIC PLAN
C105	SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN	C404	PAVING AND GEOMETRIC PLAN
C106	SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN	C405	PAVING AND GEOMETRIC PLAN
C200	GRADING, DRAINAGE, AND EROSION CONTROL PLAN	C406	PAVING AND GEOMETRIC PLAN
C201	GRADING, DRAINAGE, AND EROSION CONTROL PLAN	C500	CIVIL DETAILS
C202	GRADING, DRAINAGE, AND EROSION CONTROL PLAN	C501	CIVIL DETAILS
C203	GRADING, DRAINAGE, AND EROSION CONTROL PLAN	C502	CIVIL DETAILS
C204	GRADING, DRAINAGE, AND EROSION CONTROL PLAN	C503	MN/DOT PEDESTRIAN CURB RAMPS
C205	GRADING, DRAINAGE, AND EROSION CONTROL PLAN	C600	STORM WATER POLLUTION PREVENTION PLAN - EXISTING CONDITIONS
C206	GRADING, DRAINAGE, AND EROSION CONTROL PLAN	C601	STORM WATER POLLUTION PREVENTION PLAN - PROPOSED CONDITIONS



VICINITY MAP



SHEET KEY



DESIGNED:
CHECKED: CNA
DRAWN: MSC
HORIZONTAL SCALE: 100'
VERTICAL SCALE:

INITIAL ISSUE: 1/16/2024
REVISIONS:

PREPARED FOR:

**SOUTH WASHINGTON
SCHOOLS**

**PARK HIGH SCHOOL
CRESTVIEW ELEMENTARY**
COTTAGE GROVE, MN

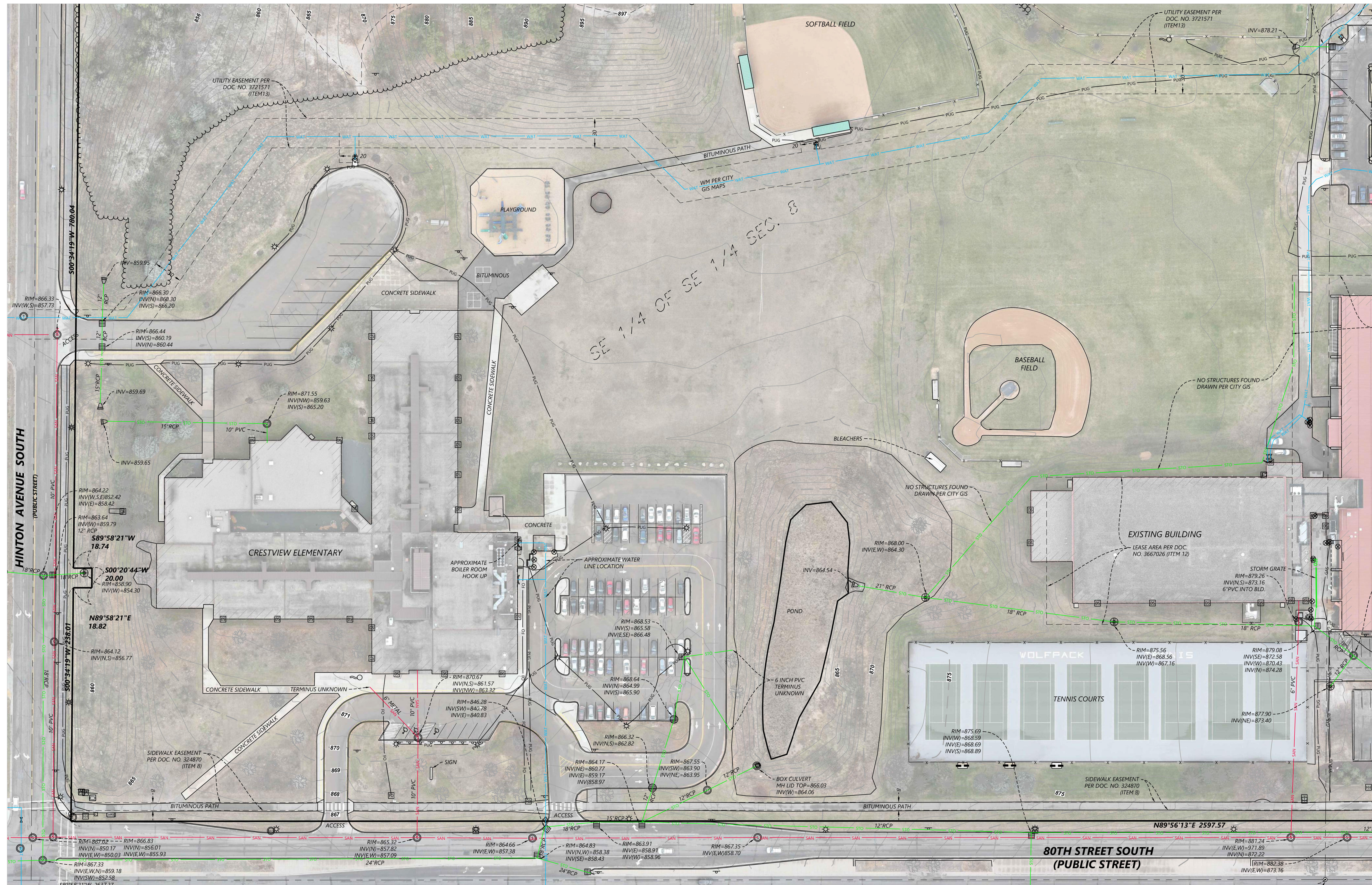
Westwood

Phone: (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax: (952) 937-5822 Minnetonka, MN 55343
Toll Free: (888) 937-5150 westwoodps.com
Westwood Professional Services, Inc.

**ALTA/NSPS
LAND TITLE SURVEY**

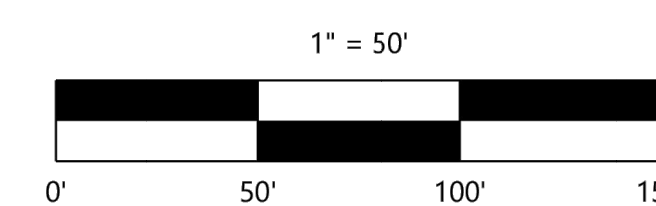
PROJECT NUMBER: 0051262

1 OF 6



LEGEND

- SANITARY MANHOLE
- SEWER CLEANOUT
- STORM MANHOLE
- BEEHIVE CATCH BASIN
- CATCH BASIN
- FLARED END SECTION
- CATCH BASIN MANHOLE
- DOWNSPOUT
- HYDRANT
- GATE VALVE
- WATER METER
- FIRE DEPARTMENT CONNECTION
- WATER MANHOLE
- ELECTRIC BOX
- ELECTRIC METER
- ELECTRIC MANHOLE
- ELECTRIC TOWER
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- GUY WIRE
- POWER POLE
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- TRAFFIC SIGNAL-ARM
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- TELEPHONE UNDERGROUND
- WATERMAIN
- FIBER OPTIC
- FENCE LINE
- CURB & GUTTER



DESIGNED: _____
CHECKED: CNA
DRAWN: MSC
HORIZONTAL SCALE: 50'
VERTICAL SCALE: _____

INITIAL ISSUE: 1/16/2024
REVISIONS: _____

PREPARED FOR:
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Westwood

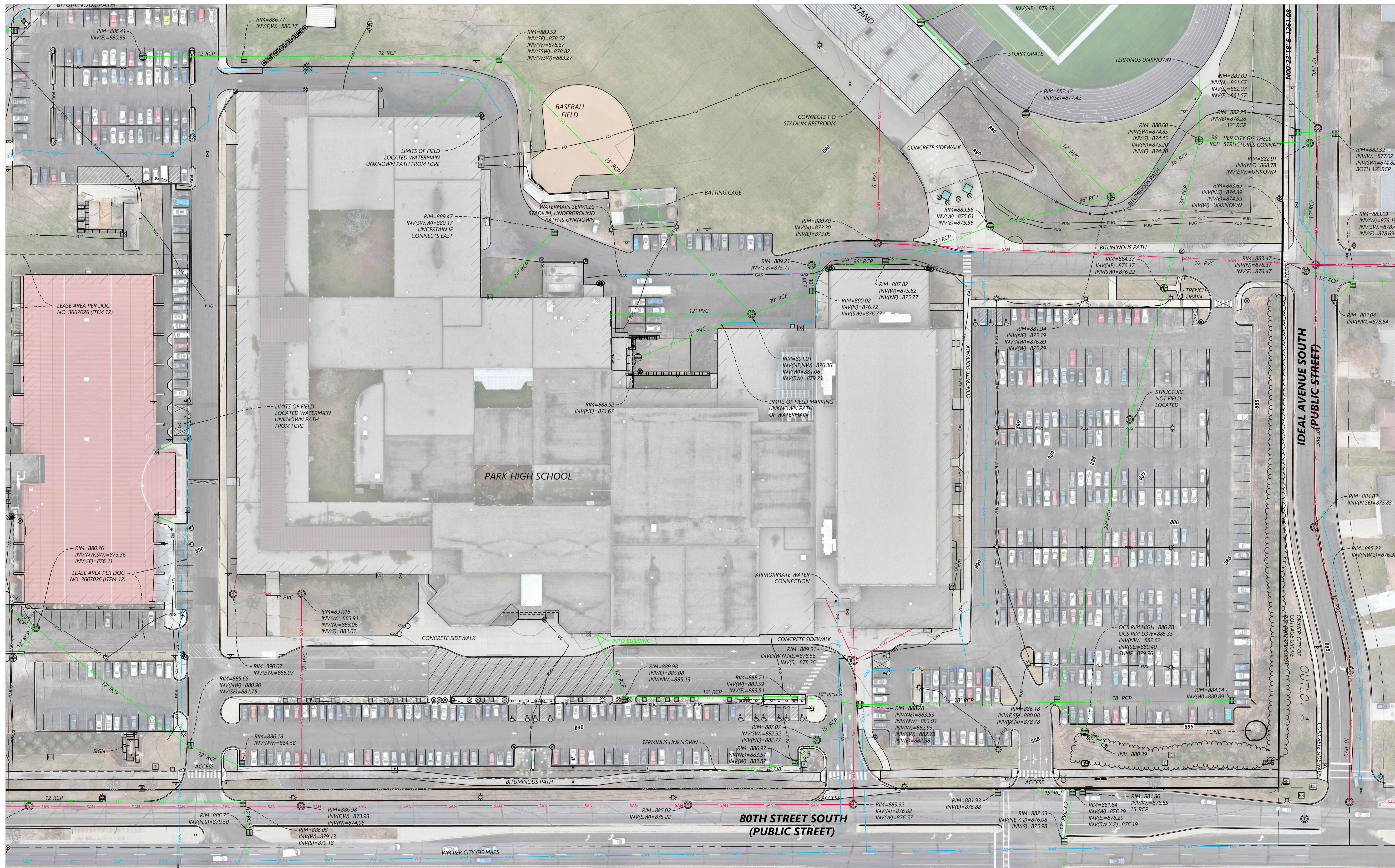
Phone (952) 937-5150 12701 Whitewater Drive, Suite 8300
Fax (952) 937-5822 Minneapolis, MN 55343
Toll-Free (888) 937-5150 www.westwoodps.com
Westwood Professional Services, Inc.

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2 OF 6



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VERTICAL SCALE: _____

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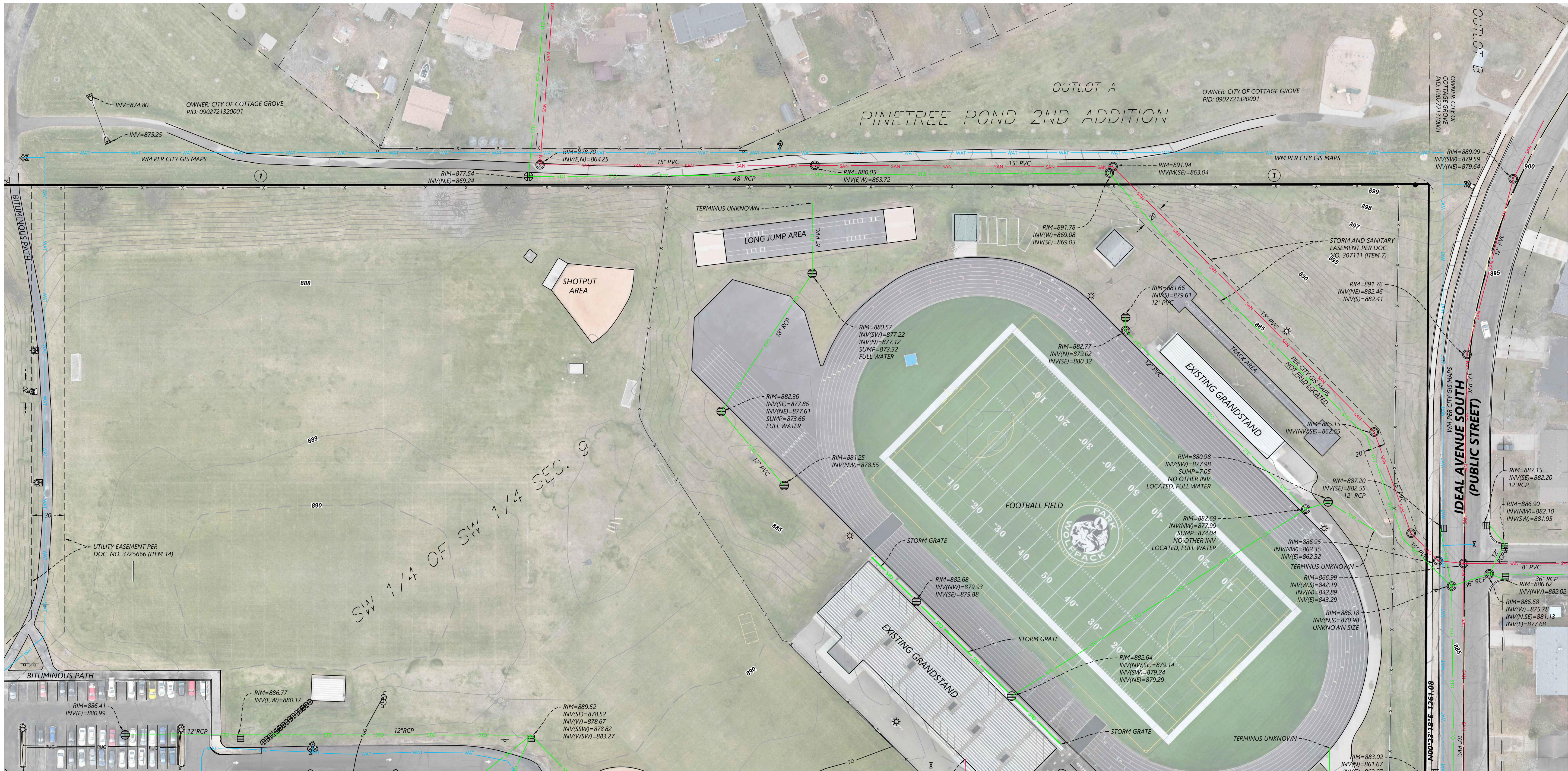
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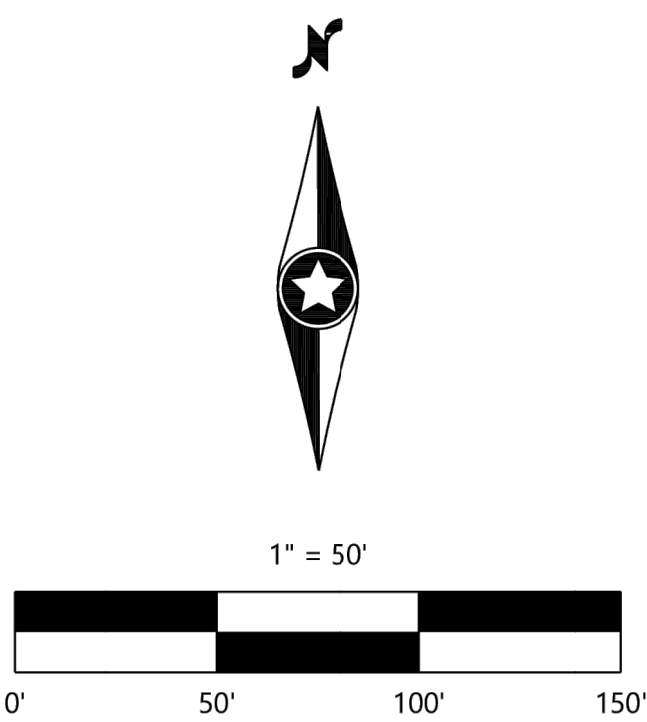
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SHEET NUMBER:

4

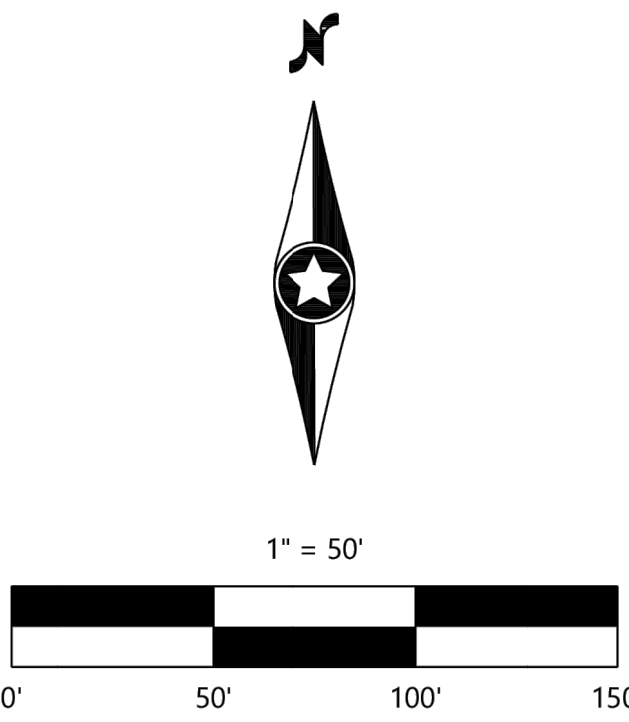
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DESIGNED: _____
CHECKED: CNA
DRAWN: MSC
HORIZONTAL SCALE: 50'
VERTICAL SCALE: 10' or 5'

INITIAL ISSUE: 1/16/2024
REVISIONS:

PREPARED FOR:

**SOUTH WASHINGTON
SCHOOLS**

**PARK HIGH SCHOOL
CRESTVIEW ELEMENTARY**
COTTAGE GROVE, MN

Westwood

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**ALTA/NSPS
LAND TITLE SURVEY**

PROJECT NUMBER: 0051262

SHEET NUMBER:

5 OF

6

LEGAL DESCRIPTION

The following information was provided in Old Republic National Title Insurance Company File Number 67792 which has an effective date of December 7, 2023:

The Southeast Quarter of the Southeast Quarter (SE 1/4 of SE 1/4) of Section Eight (8), Township Twenty-seven (27), Range Twenty-one (21), Washington County, Minnesota.

AND

The Southwest Quarter of the Southwest Quarter (SW 1/4 of SW 1/4) of Section Nine (9), Township Twenty-seven (27), Range Twenty-one (21), Washington County, Minnesota, except that part thereof described as follows:

Beginning at the Southwest corner of the Southwest 1/4 of Section 9, Township 27 North, Range 21 West; thence North on the West line of said Section 300 feet; thence East and parallel with the South line of said Section 300 feet; thence South and parallel with the West line of said Section 300 feet to the South line of said Section; thence West along the South line of said Section 300 feet to the point of beginning, subject to public roads and highways.

AND

That part of the Southwest Quarter of the Southwest Quarter (SW 1/4 of SW 1/4) of Section Nine (9), Township Twenty-seven (27), Range Twenty-one (21), Washington County, Minnesota, described as follows:

Beginning at the Southwest corner of the Southwest 1/4 of Section 9, Township 27 North, Range 21 West; thence North on the West line of said Section 300 feet; thence East and parallel with the South line of said Section 300 feet; thence South and parallel with the West line of said Section 300 feet to the South line of said Section; thence West along the South line of said Section 300 feet to the point of beginning, subject to public roads and highways.

EXCEPT THE FOLLOWING PARCELS:

That part of the Southeast Quarter of the Southeast Quarter of Section 8, Township 27, Range 21, Washington County, Minnesota, lying west of a line drawn 40.00 feet East of and parallel with the following described line:

Beginning at the southwest corner of the Southeast Quarter of the Southeast Quarter of said Section 8; thence Northerly 2641.75 feet to a point on the north line of said Northeast Quarter of Southeast Quarter, distant 10.45 feet east from the northwest corner of said Northeast Quarter of Southeast Quarter and there terminating.

AND

The West 60.00 feet of the North 20.00 feet of the South 318.00 feet of the Southeast Quarter of the Southeast Quarter of Section 8, Township 27, Range 21, Washington County, Minnesota.

AND

The West 115.00 feet of the North 20.00 feet of the South 1118.00 feet of the Southeast Quarter of the Southeast Quarter of Section 8, Township 27, Range 21, Washington County, Minnesota.

AND

The South 60 feet of the Southwest Quarter of the Southwest Quarter of Section 9, Township 27, Range 21, Washington County, Minnesota; and The South 60 feet of that part of the Southeast Quarter of the Southeast Quarter of Section 8, Township 27, Range 21, Washington County, Minnesota, lying east of a line parallel with and distant 40 feet east from the following described line: Beginning at the southwest corner of said Southeast Quarter of the Southeast Quarter; thence northerly 2641.75 feet to a point on the north line of the Northeast Quarter of Southeast Quarter of said Section 8, distant 10.45 feet east from the northwest corner of said Northeast Quarter of Southeast Quarter and said line there terminating. (Abstract Property)

GENERAL NOTES

- Bearings of property lines shown hereon are based on the Washington County coordinate system, (NAD 83 - 2011 Control Adjustment).
- Lengths of lines and distances between features are measured in US-Survey Feet.
- Elevations and ground contours shown hereon are relative to the NAVD88.

STATEMENT OF POSSIBLE ENCROACHMENTS

The following items are items observed by the surveyor which may constitute an encroachment onto/from the subject property and are provided to draw the users attention, the items below may not in fact constitute an encroachment.

① Fences lie on or near property boundaries, the surveyor is not aware of the ownership or maintenance responsibilities for these fences.

SCHEDULE B SECTION 2 ITEM NOTES

- The following notes correspond to the numbering system of Schedule B, Section 2 of the above mentioned title commitment. Items _____ are not survey related and are not addressed hereon.
- Storm and sanitary sewer easement(s) over the Land in favor of City of Cottage Grove, as created in instrument filed in Book 319 of Deeds, at Page 941, as Document No. 307111. - **SAID EASEMENT AFFECTS SUBJECT PROPERTY AND IS SHOWN HEREON**
 - Sidewalk easement(s) over the Land in favor of City of Cottage Grove, as created in Document No. 324870. - **SAID EASEMENT AFFECTS SUBJECT PROPERTY AND IS SHOWN HEREON**
 - Terms and conditions of City of Cottage Grove Resolution No. 98-213, approving a conditional use permit, filed August 20, 1999, as Document No. 3065622. - **BLANKET IN NATURE AND AFFECTS THE ENTIRE SUBJECT PROPERTY**
 - Terms and conditions of City of Cottage Grove Resolution No. 00-191, approving a conditional use permit, filed October 9, 2000, as Document No. 3124111. - **BLANKET IN NATURE AND AFFECTS THE ENTIRE SUBJECT PROPERTY**
 - Terms and conditions of City of Cottage Grove Resolution No. 01-058, approving a conditional use permit, filed July 13, 2001, as Document No. 3167895. Amended by Document No. 3189450. - **BLANKET IN NATURE AND AFFECTS THE ENTIRE SUBJECT PROPERTY**
 - Terms and conditions of that certain lease by and between Independent School District No. 833, as lessor, and City of Cottage Grove, as lessee, dated May 02, 2007, filed October 23, 2007, as Document No. 3667026. - **LEASE AREA AFFECTS SUBJECT PROPERTY AND IS SHOWN HEREON**
 - Utility easement(s) over the Land in favor of City of Cottage Grove, as created in Document No. 3721571. - **SAID EASEMENT AFFECTS SUBJECT PROPERTY AND IS SHOWN HEREON**
 - Utility easement(s) over the Land in favor of City of Cottage Grove, as created in Document No. 3725666. - **SAID EASEMENT AFFECTS SUBJECT PROPERTY AND IS SHOWN HEREON**
 - Terms and conditions of City of Cottage Grove Resolution No. 2009-074, granting a variance, filed May 22, 2009 as Document No. 3741123. - **BLANKET IN NATURE AND AFFECTS ENTIRE SUBJECT PROPERTY**

TABLE A OPTIONAL ITEM NOTES

- Property corner markers have been found or placed as shown hereon
- The address of the surveyed property is 7830 and 8040 80th Street South, Cottage Grove, MN 55016.
- The subject property appears to lie within Zone "X" according to FEMA Flood Insurance Rate Map Community - Panel Number 27163C0405E which has an effective date of 2/3/2010.
- The subject property contains 3,272,940.88 sq. ft. or 75.14 acres, more or less.
- Elevations and ground contours shown hereon are based on the NAVD88.
- There were no Zoning Reports or Letters provided by the title company, client or owner.
- There were no Zoning Reports or Letters provided by the title company, client or owner.
- The surveyor has made a good faith effort to show all substantial, above ground, visible, and permanent features observed during the course of the survey. AT THE TIME OF SURVEY THERE WAS SNOW AND ICE COVERING ALL OR PARTS OF THE SUBJECT PROPERTY, FEATURES OBSCURED BY SNOW OR ICE MAY NOT BE SHOWN.
- The subject property contains 817 regular parking stalls, 24 handicapped stalls and 0 motorcycle stalls.
- There were no site utility plans and/or reports provided by the client.
- A private utility marking request was made by the surveyor (One Call Ticket No.233391477). The underground utility lines shown have been located from field survey information and existing drawings. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in service or abandoned nor do we guarantee the accuracy or completeness of the markings and maps provided.
- Names of adjoining owners are shown according to the Washington County GIS Map.

SURVEYOR'S CERTIFICATION

To: ISD 833, Lender, Old Republic National Title Insurance Company:

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5 6(a)(b), 8, 9, 11(a)(b) and 13 of Table A thereof.

The fieldwork was completed on 12/19/2023.

Date of Map: 1/16/24


Name: Chris Ambour
License No. 43055
email address: Chris.Ambour@westwoodps.com

DESIGNED:	
CHECKED:	CNA
DRAWN:	MSC
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PREPARED FOR:

SOUTH WASHINGTON SCHOOLS

**PARK HIGH SCHOOL
CRESTVIEW ELEMENTARY**
COTTAGE GROVE, MN

Westwood

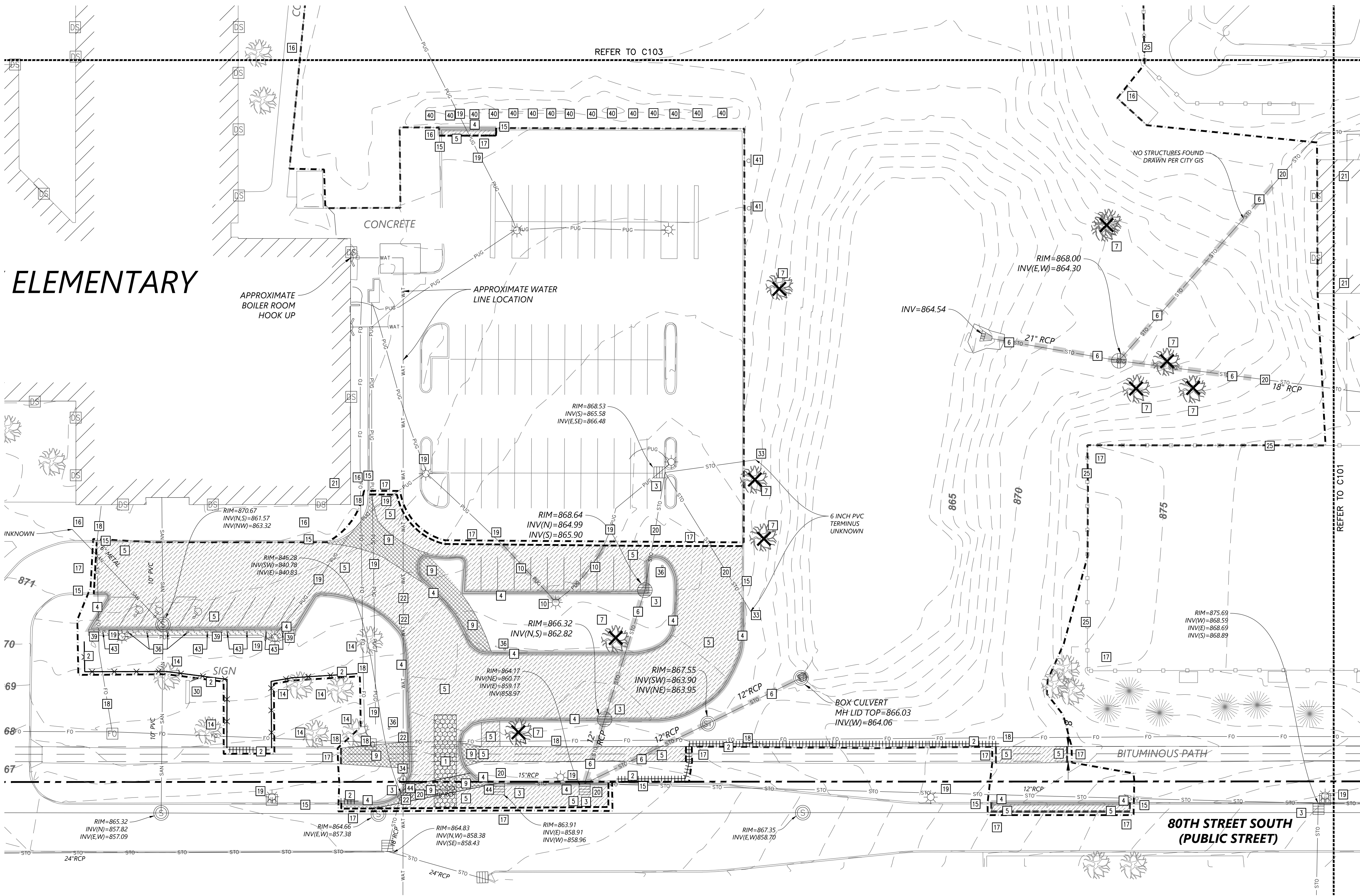
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ALTA/NSPS
LAND TITLE SURVEY

PROJECT NUMBER: 0051262

SHEET NUMBER:

6 OF 6



1
C100
SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN
1" = 30'

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
SILTATION FENCE	---X---
SEDIMENT CONTROL LOG	
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
CONSTRUCTION ENTRANCE	[Pattern]
BITUMINOUS REMOVAL	[Pattern]
CONCRETE REMOVAL	[Pattern]
LANDSCAPING REMOVAL	[Pattern]
CURB REMOVAL	[Pattern]
PIPE REMOVAL	[Pattern]
UTILITY REMOVAL	[Pattern]
TREE REMOVAL	X

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CB	Catch Basin
CNC	Concrete
DIP	Ductile Iron Pipe
ELEV	Elevation
EX	Existing
FFE	Finished Floor Elevation
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe

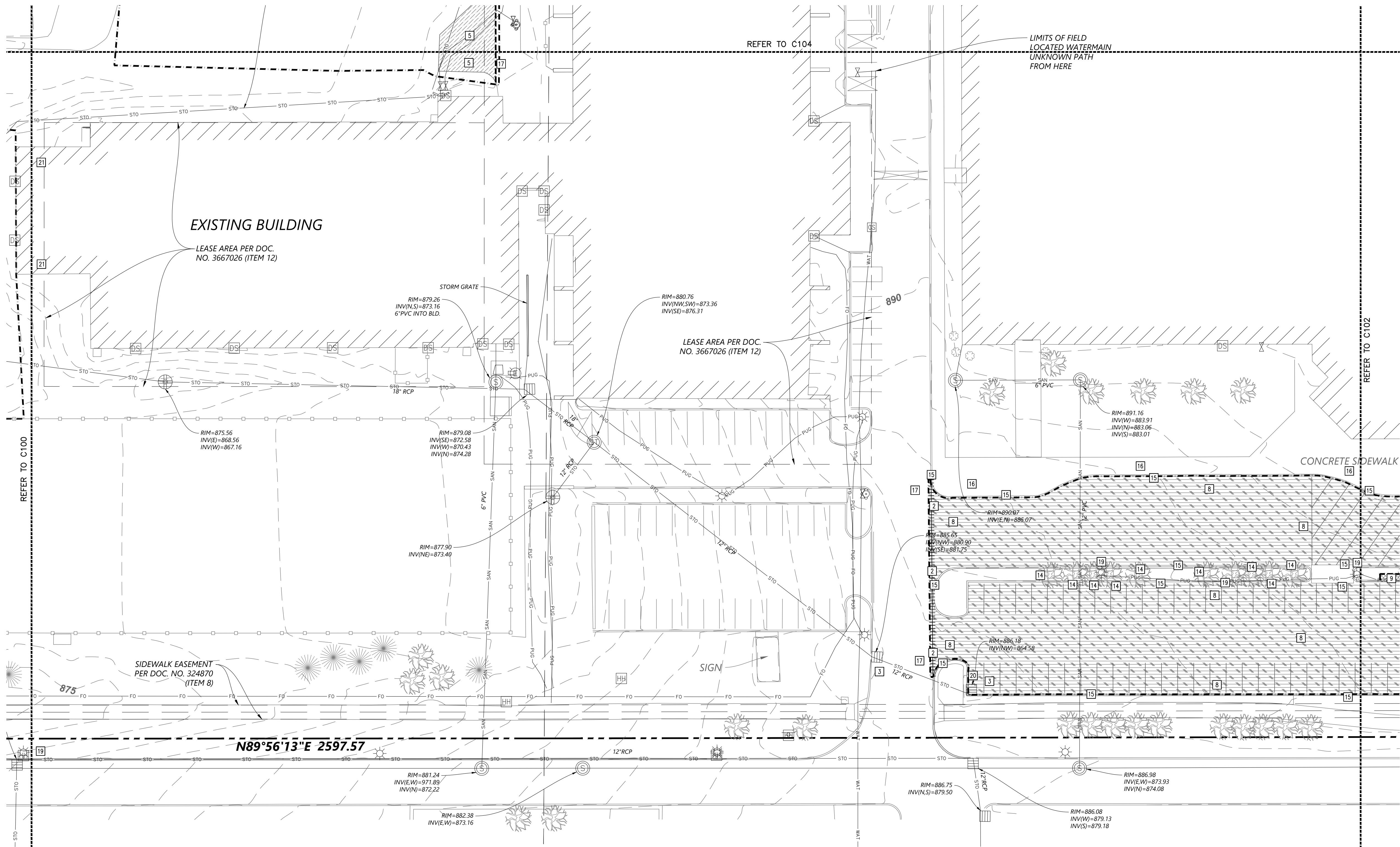
NOTE:
STORM SEWER INLETS NOT SHOWN ON PLAN MAY RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITIES. INSTALL INLET SEDIMENT PROTECTION PER DETAILS 4/C500 AND 5/C500 ON ALL STORM INLETS THAT MAY RECEIVE RUNOFF.

NOTE:
CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO OBTAIN CLEAR UNDERSTANDING OF THE FULL SCOPE OF TREE, UNDER BRUSH, AND OTHER VEGETATION CLEARING THAT NEEDS TO OCCUR.

- DEMOLITION AND REMOVAL NOTES:
- CONTRACTOR SHALL FOLLOW ALL CITY OF COTTAGE GROVE STANDARDS AND SPECIFICATIONS.
 - PRIOR TO START OF ANY CONSTRUCTION ACTIVITY, ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE CITY OF COTTAGE GROVE. PERIMETER SEDIMENT PROTECTION SHALL BE INSTALLED ALONG THE CONTOUR.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION AND MARK ALL EXISTING UTILITIES 48 HOURS BEFORE CONSTRUCTION STARTS. THE ENGINEER, ARCHITECT, OR OWNER DOES NOT GUARANTEE THAT ALL THE UTILITIES ARE MAPPED, OR, IF MAPPED, ARE SHOWN CORRECTLY. CONTACT Gopher State One Call at 651-454-0002 FOR FIELD LOCATING UTILITIES. CONTACT UTILITY OWNER IF DAMAGE OCCURS DUE TO CONSTRUCTION.
 - PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR IS TO CLEARLY IDENTIFY IN THE FIELD THE WETLAND PERIMETERS THAT ARE NOT TO BE IMPACTED SO THAT NO ENCROACHMENT OCCURS. AFTER THE PERIMETERS ARE CLEARLY MARKED IN THE FIELD, THE CONTRACTOR SHALL CONTACT SOUTH WASHINGTON WATERSHED DISTRICT TO CONFIRM AND APPROVE NO ENCROACHMENT LIMITS.
 - THERE MAY BE MISCELLANEOUS ITEMS TO BE REMOVED THAT ARE NOT IDENTIFIED ON THESE PLANS. THE CONTRACTOR SHALL VISIT THE SITE AND REVIEW THE DOCUMENTS TO OBTAIN A CLEAR UNDERSTANDING OF THE INTENDED SCOPE OF WORK.
 - REMOVE ALL GAS AND ELECTRIC LINES UNDER PROPOSED BUILDING FOOTPRINT. COORDINATE DISCONNECTION OF EACH UTILITY WITH THE UTILITY OWNER.
 - ANY UTILITIES NOT INDICATED FOR REMOVAL OR ABANDONMENT ARE TO BE PROTECTED AT ALL TIMES.
 - EXISTING CONCRETE PAVEMENT AND CURB AND GUTTER SHOWN TO BE REMOVED WITHIN THE SCOPE OF THE PROJECT SHALL BE REMOVED FROM THE SAW CUT LINES TO THE NEAREST JOINT.
 - THE BACKGROUND INFORMATION WAS PREPARED BY WESTWOOD PROFESSIONAL SERVICES, (952) 937-5150.
 - ALL WORK IN THE PUBLIC RIGHT OF WAY IS TO BE COORDINATED WITH THE CITY OF COTTAGE GROVE. ROADWAY REPAIRS, BOULEVARD REPAIRS, AND TRAFFIC CONTROL ARE TO BE PER CITY OF COTTAGE GROVE STANDARDS AND SPECIFICATIONS.

- GENERAL NOTES:
- CONCRETE CURB AND GUTTER REMOVAL, PAVEMENT REMOVAL, AND UTILITY REMOVAL LIMITS ARE TO BE COORDINATED WITH THE CITY OF COTTAGE GROVE AND UTILITY OWNER.
 - THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A TRAFFIC CONTROL PLAN WHILE WORKING WITHIN THE RIGHT-OF-WAY. THE TRAFFIC CONTROL PLAN SHALL BE APPROVED BY THE CITY ENGINEERING DEPARTMENT PRIOR TO STREET ENCROACHMENT.
 - CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND REVIEW ALL CONSTRUCTION DOCUMENTS AND GEOTECHNICAL REPORTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ITEMS THAT SHOULD HAVE BEEN ANTICIPATED BY PERFORMING THE ABOVE.
 - THE CONSTRUCTION ENTRANCE INDICATED ON THE PLAN IS SHOWN IN AN APPROXIMATE LOCATION. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR IS TO COORDINATE WITH THE CITY OF COTTAGE GROVE FOR THE EXACT CONSTRUCTION ENTRANCE LOCATION.

- KEYED NOTES
- KEYED NOTES ARE DENOTED BY [NO] ON PLAN.
- INSTALL CONSTRUCTION ENTRANCE. REFER TO DETAIL 1/C500.
 - INSTALL PERIMETER EROSION CONTROL. REFER TO DETAILS 2/C500 AND 3/C500.
 - INSTALL INLET SEDIMENT PROTECTION. REFER TO DETAILS 4/C500 AND 5/C500.
 - REMOVE CURB AND GUTTER IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN. SAWCUT AND REMOVE AT NEAREST JOINT.
 - SAWCUT AND REMOVE BITUMINOUS PAVEMENT IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
 - REMOVE STORM SEWER IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
 - REMOVE TREE IN ITS ENTIRETY INCLUDING STUMP.
 - REMOVE CONCRETE PAVEMENT IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
 - REMOVE EXISTING ELECTRICAL LINES, LIGHT POLES, AND FOOTINGS TO THE APPROXIMATE EXTENT SHOWN. CONTRACTOR SHALL COORDINATE EXACT LIMITS OF REMOVAL WITH THE ELECTRICAL CONTRACTOR.
 - EXISTING TREE TO REMAIN. PROTECT AT ALL TIMES.
 - EXISTING CURB TO REMAIN. PROTECT AT ALL TIMES.
 - EXISTING CONCRETE PAVEMENT TO REMAIN. PROTECT AT ALL TIMES.
 - EXISTING BITUMINOUS PAVEMENT TO REMAIN. PROTECT AT ALL TIMES.
 - EXISTING FIBER OPTIC LINE TO REMAIN. PROTECT AT ALL TIMES.
 - EXISTING ELECTRICAL LINES, LIGHT POLES, AND FOOTINGS TO REMAIN. PROTECT AT ALL TIMES.
 - EXISTING CATCH BASIN, MANHOLE, AND STORM SEWER TO REMAIN. PROTECT AT ALL TIMES.
 - EXISTING BUILDING TO REMAIN. PROTECT AT ALL TIMES.
 - EXISTING WATER MAIN, HYDRANTS, VALVES, AND IRRIGATION TO REMAIN. PROTECT AT ALL TIMES.
 - EXISTING FENCE TO REMAIN. PROTECT AT ALL TIMES.
 - EXISTING MONUMENT SIGN TO REMAIN. PROTECT AT ALL TIMES.
 - EXISTING PIPE EXTENTS NOT IDENTIFIED ON SURVEY, IF PIPE IS ENCOUNTERED DURING EXCAVATION FOR PROPOSED POND, CONTACT CIVIL ENGINEER TO DISCUSS NEXT STEPS.
 - REMOVE EXISTING HYDRANT. EXISTING WATER MAIN TO REMAIN.
 - REMOVE SIGN IF ITS ENTIRETY INCLUDING ANY BELOW GRADE FOUNDATION.
 - REMOVE LANDSCAPE ROCK.
 - REMOVE LANDSCAPE BOULDERS. COORDINATE WITH SCHOOL DISTRICT FOR RELOCATION OR REMOVAL.
 - REMOVE BASKETBALL HOOP AND STANDARD IN ITS ENTIRETY INCLUDING ANY BELOW GRADE FOUNDATION. COORDINATE WITH SCHOOL DISTRICT FOR REINSTALLATION OR REMOVAL.
 - REMOVE AND SALVAGE NO PARKING SIGN AND POST. REMOVE BELOW GRADE FOUNDATION IN ITS ENTIRETY. REFER TO C400 FOR REINSTALLATION.
 - REMOVE EXISTING TOP SLAB AND CASTING FROM STORM STRUCTURE. STRUCTURE TO REMAIN. PROTECT AT ALL TIMES. REFER TO SHEET C3.000 FOR REPLACEMENT CASTING TYPE.

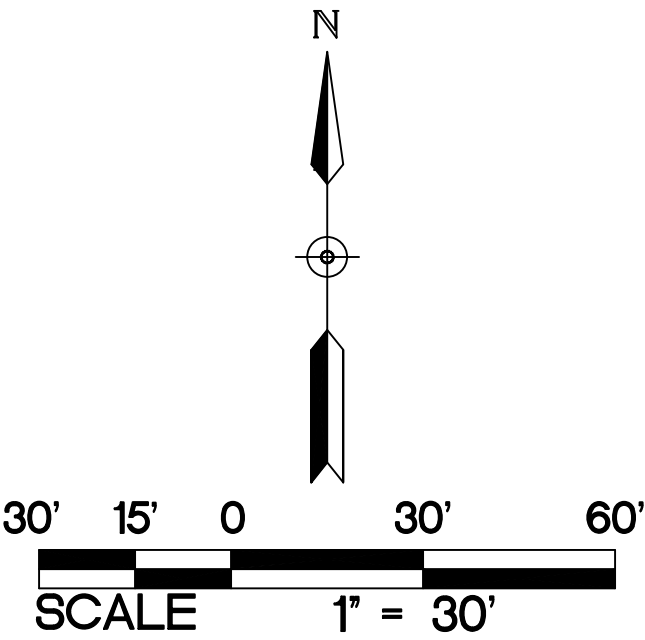


1
C101
SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN
1" = 30'

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CB	Catch Basin
CONC	Concrete
DIP	Ductile Iron Pipe
ELEV	Elevation
EX	Existing
FTE	Finished Floor Elevation
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
BITUMINOUS RECLAMATION	---

NOTE:
STORM SEWER INLETS NOT SHOWN ON PLAN
MAY RECEIVE RUNOFF FROM CONSTRUCTION
ACTIVITIES. INSTALL INLET SEDIMENT PROTECTION
PER DETAILS 4/C500 AND 5/C500 ON ALL
STORM INLETS THAT MAY RECEIVE RUNOFF.



NOTE:
CONTRACTOR SHALL VISIT THE SITE PRIOR TO
BIDDING TO OBTAIN CLEAR UNDERSTANDING
OF THE FULL SCOPE OF TREE, UNDER
BRUSH, AND OTHER VEGETATION CLEARING
THAT NEEDS TO OCCUR.

NOTE:
REFER TO C100 FOR DEMOLITION AND
REMOVAL NOTES.
REFER TO C100 FOR GENERAL NOTES.

KEYED NOTES

- KEYED NOTES ARE DENOTED BY [] ON PLAN.
- INSTALL PERIMETER EROSION CONTROL. REFER TO DETAILS 2/C500 AND 3/C500.
 - INSTALL INLET SEDIMENT PROTECTION. REFER TO DETAILS 4/C500 AND 5/C500.
 - SAWCUT AND REMOVE BITUMINOUS PAVEMENT IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
 - PROVIDE 6-INCH DEPTH BITUMINOUS RECLAMATION AND SUBCUT SUBGRADE TO PROVIDE NEW 4-INCH BITUMINOUS SECTION. REFER TO DETAIL 7/C502 FOR NEW BITUMINOUS SECTION.
 - EXISTING TREE TO REMAIN. PROTECT AT ALL TIMES.
 - EXISTING CURB TO REMAIN. PROTECT AT ALL TIMES.
 - EXISTING CONCRETE PAVEMENT TO REMAIN. PROTECT AT ALL TIMES.
 - EXISTING BITUMINOUS PAVEMENT TO REMAIN. PROTECT AT ALL TIMES.
 - EXISTING ELECTRICAL LINES, LIGHT POLES, AND FOOTINGS TO REMAIN. PROTECT AT ALL TIMES.
 - EXISTING CATCH BASIN, MANHOLE, AND STORM SEWER TO REMAIN. PROTECT AT ALL TIMES.
 - EXISTING BUILDING TO REMAIN. PROTECT AT ALL TIMES.

SO
wash
CO
SCHOOLS



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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 MN.

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Date: 11-1-2024 License Number: 52209

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BKBM Project No. 24222-50

SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

PROJECT: 23270
DRAWN BY: WH
CHECKED BY: KAB
DATE: 11.1.2024
REVISIONS:

BID PACKAGE
#1: PRICING
SET

C101

The site plan for Park High School shows a large rectangular building with a central courtyard. The building is surrounded by parking lots and a concrete sidewalk. The plan includes various annotations such as "CONCRETE SIDEWALK", "BITUMINOUS PATH", "APPROXIMATE WATER CONNECTION", and "LIMITS OF FIELD MARKING UNKNOWN PATH OF WATER MAIN". The plan also shows the location of "80TH STREET SOUTH (PUBLIC STREET)" and "IDEAL AVENUE SO (PUBLIC STREET)". The plan includes numerous elevation points and stationing data, such as "RIM=888.52 INV(NE)=873.67" and "RIM=881.80 INV(W)=876.85". The plan also shows the location of "POND" and "STRUCTURE NOT FIELD LOCATED".

KEYED NOTES

KEYED NOTES ARE DENOTED BY NO ON PLAN.

- 1 INSTALL CONSTRUCTION ENTRANCE. REFER TO DETAIL 1/C500.
- 3 INSTALL INLET SEDIMENT PROTECTION. REFER TO DETAILS 4/C500 AND 5/C500.
- 4 REMOVE CURB AND GUTTER IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN. SAWCUT AND REMOVE AT NEAREST JOINT.
- 5 SAWCUT AND REMOVE BITUMINOUS PAVEMENT IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
- 8 PROVIDE 6-INCH DEPTH BITUMINOUS RECLAMATION AND SUBCUT SUBGRADE TO PROVIDE NEW 4-INCH MINIMUM SECTION. REFER TO DETAIL 7/C500 FOR NEW BITUMINOUS SECTION.
- 9 REMOVE CONCRETE PAVEMENT IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
- 14 EXISTING TREE TO REMAIN. PROTECT AT ALL TIMES.
- 15 EXISTING CURB TO REMAIN. PROTECT AT ALL TIMES.
- 16 EXISTING CONCRETE PAVEMENT TO REMAIN. PROTECT AT ALL TIMES.
- 17 EXISTING BITUMINOUS PAVEMENT TO REMAIN. PROTECT AT ALL TIMES.
- 19 EXISTING ELECTRICAL LINES, LIGHT POLES, AND FOOTINGS TO REMAIN. PROTECT AT ALL TIMES.
- 20 EXISTING CATCH BASIN, MANHOLE, AND STORM SEWER TO REMAIN. PROTECT AT ALL TIMES.
- 21 EXISTING BUILDING TO REMAIN. PROTECT AT ALL TIMES.
- 30 EXISTING MONUMENT SIGN TO REMAIN. PROTECT AT ALL TIMES.
- 34 EXISTING BOLLARD TO REMAIN. PROTECT AT ALL TIMES. BOLLARD NOT IDENTIFIED ON SURVEY. LOCATION SHOWN IS APPROXIMATE.
- 45 REMOVE SIGN AND POST FROM BOLLARD. EXISTING BOLLARD TO REMAIN.
- 46 EXISTING TRAFFIC SIGNAL INFRASTRUCTURE EXISTING IN THIS AREA INCLUDING SIGNAL POSTS, CABINETS, AND LOOP DETECTORS. CONTRACTOR SHALL PROTECT SIGNAL POSTS AND CABINETS AT ALL TIMES. LOOP DETECTORS TO REMAIN. PART OF THE PROJECT RECLAIM PROCESS. CONTRACTOR SHALL REPAIR LOOP DETECTORS PER CITY STANDARDS.

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CB	Catch Basin
CONC	Concrete
DIP	Ductile Iron Pipe
ELEV	Elevation
EX	Existing
FFE	Finished Floor Elevation
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe

NOTE:
STORM SEWER INLETS NOT SHOWN ON
PLAN MAY RECEIVE RUNOFF FROM
CONSTRUCTION ACTIVITIES. INSTALL INLET
SEDIMENT PROTECTION PER DETAILS
4/C500 AND 5/C500 ON ALL STORM
INLETS THAT MAY RECEIVE RUNOFF.

NOTE:
REFER TO C100 FOR DEMOLITION AND
REMOVAL NOTES.

REFER TO C100 FOR GENERAL NOTES.

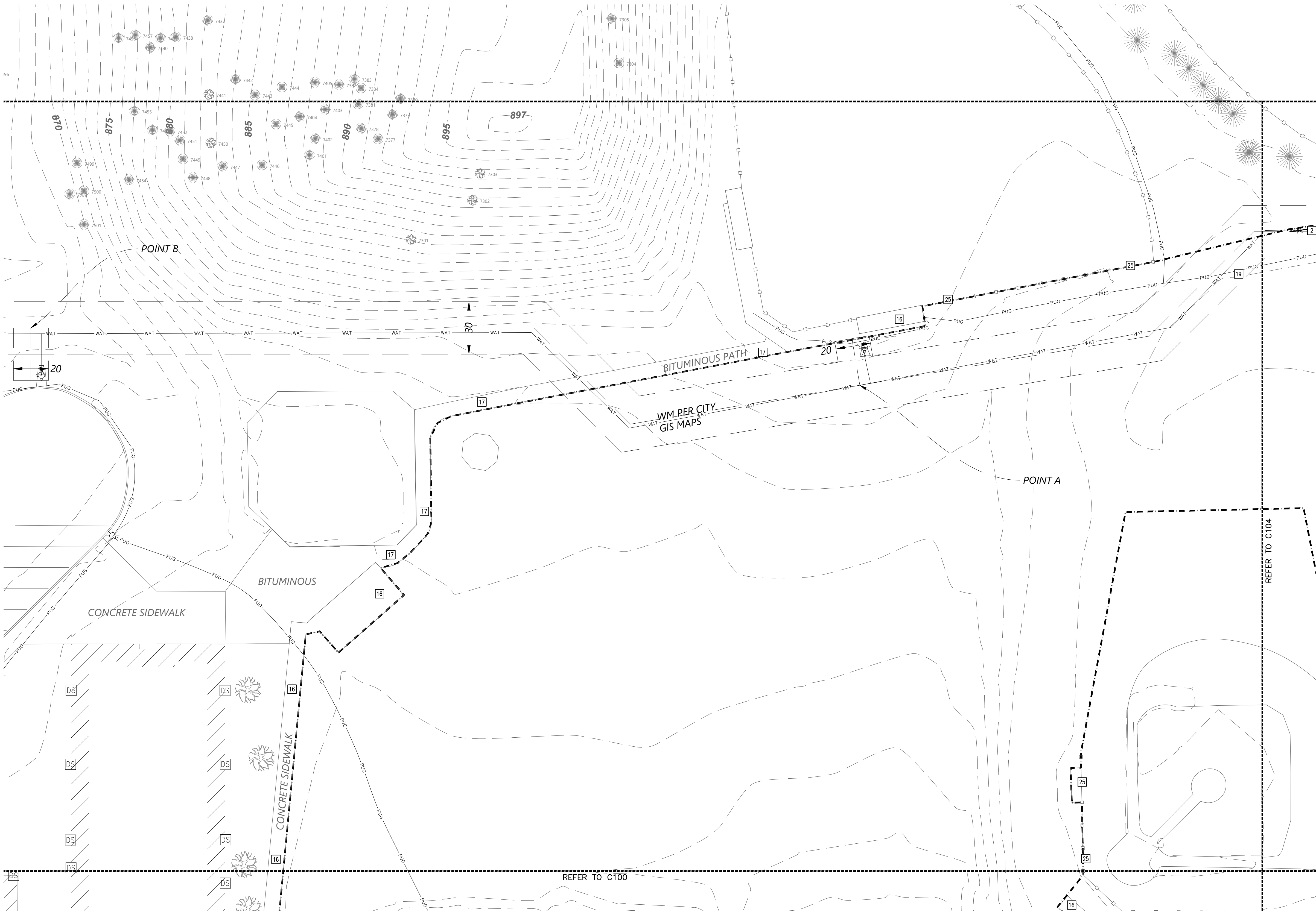
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BKBK Project No. 24222.50

**PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS**
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

REVISIONS:

C102

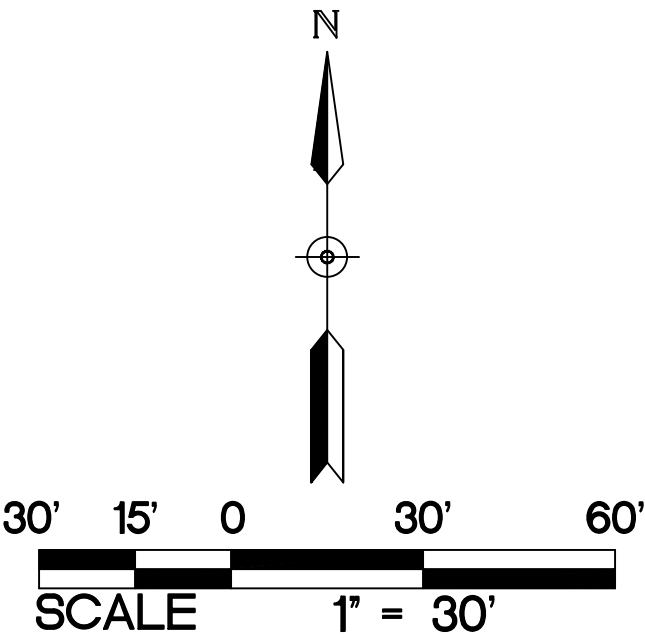


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C103 SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN
1" = 30'

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CB	Catch Basin
CONC	Concrete
DIP	Ductile Iron Pipe
ELEV	Elevation
EX	Existing
FTE	Finished Floor Elevation
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
SILTATION FENCE	XX
SEDIMENT CONTROL LOG	+++++
PROPERTY LINE	---

NOTE:
STORM SEWER INLETS NOT SHOWN ON PLAN
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ACTIVITIES. INSTALL INLET SEDIMENT PROTECTION
PER DETAILS 4/C500 AND 5/C500 ON ALL
STORM INLETS THAT MAY RECEIVE RUNOFF.



NOTE:
REFER TO C100 FOR DEMOLITION AND
REMOVAL NOTES.
REFER TO C100 FOR GENERAL NOTES.

KEYED NOTES

KEYED NOTES ARE DENOTED BY [] ON PLAN.

[16] EXISTING CONCRETE PAVEMENT TO REMAIN. PROTECT AT ALL TIMES.

[17] EXISTING BITUMINOUS PAVEMENT TO REMAIN. PROTECT AT ALL TIMES.

[19] EXISTING ELECTRICAL LINES, LIGHT POLES, AND FOOTINGS TO REMAIN. PROTECT AT ALL TIMES.

[25] EXISTING FENCE TO REMAIN. PROTECT AT ALL TIMES.



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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 MN.

Kevin A. Bohl
Date: 11-1-2024 License Number: 52209

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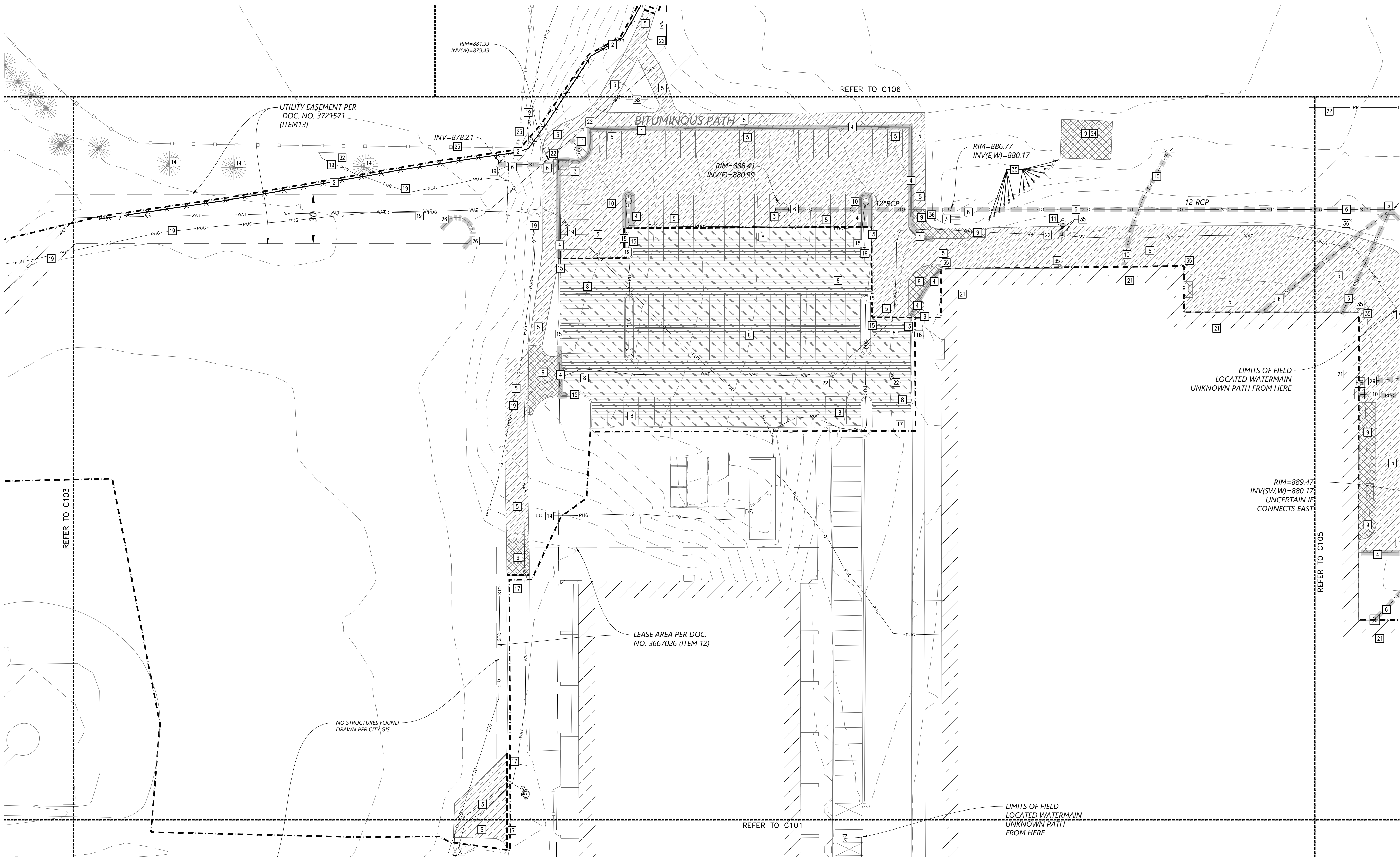
SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

PROJECT: 23270
DRAWN BY: WH
CHECKED BY: KAB
DATE: 11.1.2024
REVISIONS:

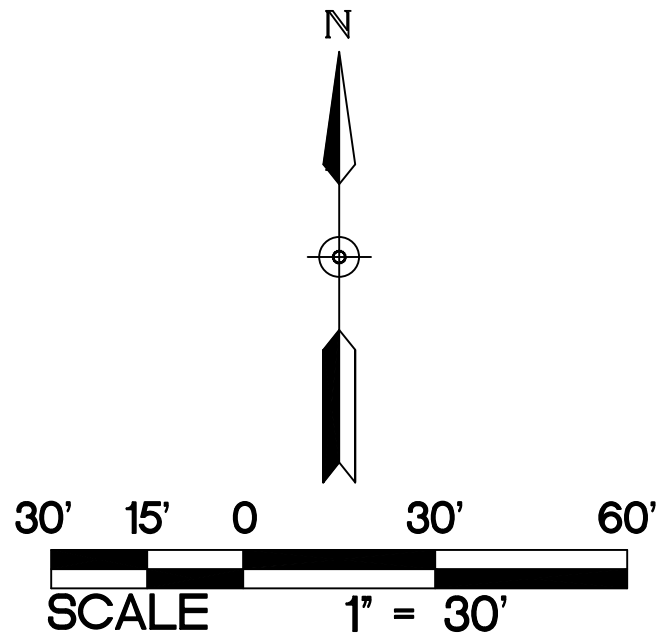
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SET

C103



ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CB	Catch Basin
CONC	Concrete
DIP	Ductile Iron Pipe
ELEV	Elevation
EX	Existing
FFE	Finished Floor Elevation
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
SILTATION FENCE	XXXXXX
SEDIMENT CONTROL LOG	
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
BITUMINOUS REMOVAL	Pattern of diagonal lines
CONCRETE REMOVAL	Pattern of cross-hatching
BITUMINOUS RECLAMATION	Pattern of horizontal lines
CURB REMOVAL	Pattern of vertical lines
PIPE REMOVAL	Pattern of horizontal dashes



NOTE: STORM SEWER INLETS NOT SHOWN ON PLAN MAY RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITIES. INSTALL INLET SEDIMENT PROTECTION PER DETAILS 4/C500 AND 5/C500 ON ALL STORM INLETS THAT MAY RECEIVE RUNOFF.

NOTE: REFER TO C100 FOR DEMOLITION AND REMOVAL NOTES.
REFER TO C100 FOR GENERAL NOTES.

KEYED NOTES

- KEYED NOTES ARE DENOTED BY [] ON PLAN.
- [2] INSTALL PERIMETER EROSION CONTROL. REFER TO DETAILS 2/C500 AND 3/C500.
- [3] INSTALL INLET SEDIMENT PROTECTION. REFER TO DETAILS 4/C500 AND 5/C500.
- [4] REMOVE CURB AND GUTTER IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN. SAWCUT AND REMOVE AT NEAREST JOINT.
- [5] SAWCUT AND REMOVE BITUMINOUS PAVEMENT IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
- [6] REMOVE STORM SEWER IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
- [8] PROVIDE 6-INCH DEPTH BITUMINOUS RECLAMATION AND SUBCUT SUBGRADE TO PROVIDE NEW 4-INCH BITUMINOUS SECTION. REFER TO DETAIL 7/C502 FOR NEW BITUMINOUS SECTION.
- [9] REMOVE CONCRETE PAVEMENT IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
- [10] REMOVE EXISTING ELECTRICAL LINES, LIGHT POLES, AND FOOTINGS TO THE APPROXIMATE EXTENT SHOWN. CONTRACTOR SHALL COORDINATE EXACT LIMITS OF REMOVAL WITH THE ELECTRICAL CONTRACTOR.
- [11] REMOVE WATER MAIN, HYDRANTS, AND VALVES IN THEIR ENTIRETY TO THE EXTENTS SHOWN.
- [14] EXISTING TREE TO REMAIN. PROTECT AT ALL TIMES.
- [15] EXISTING CURB TO REMAIN. PROTECT AT ALL TIMES.
- [16] EXISTING CONCRETE PAVEMENT TO REMAIN. PROTECT AT ALL TIMES.
- [17] EXISTING BITUMINOUS PAVEMENT TO REMAIN. PROTECT AT ALL TIMES.
- [19] EXISTING ELECTRICAL LINES, LIGHT POLES, AND FOOTINGS TO REMAIN. PROTECT AT ALL TIMES.
- [21] EXISTING BUILDING TO REMAIN. PROTECT AT ALL TIMES.
- [22] EXISTING WATER MAIN, HYDRANTS, VALVES, AND IRRIGATION TO REMAIN. PROTECT AT ALL TIMES.
- [24] REMOVE AND SALVAGE EXISTING BLEACHERS IN THEIR ENTIRETY. COORDINATE WITH SCHOOL DISTRICT.
- [25] EXISTING FENCE TO REMAIN. PROTECT AT ALL TIMES.
- [26] REMOVE AND SALVAGE EXISTING BATTING CAGE IN ITS ENTIRETY. COORDINATE WITH SCHOOL DISTRICT FOR RELOCATION.
- [29] REMOVE FIBER OPTIC LINE IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
- [32] EXISTING SCORE BOARD TO REMAIN. PROTECT AT ALL TIMES.
- [35] REMOVE BOLLARD IN ITS ENTIRETY.
- [36] REMOVE SIGN IF ITS ENTIRETY INCLUDING ANY BELOW GRADE FOUNDATION.
- [38] REMOVE AND SALVAGE SIGN. REFER TO C404 FOR RELOCATION.

1
C104 SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN
1" = 30'

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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 MN.

Kevin A. Bohl
Date: 11-1-2024 License Number: 52209

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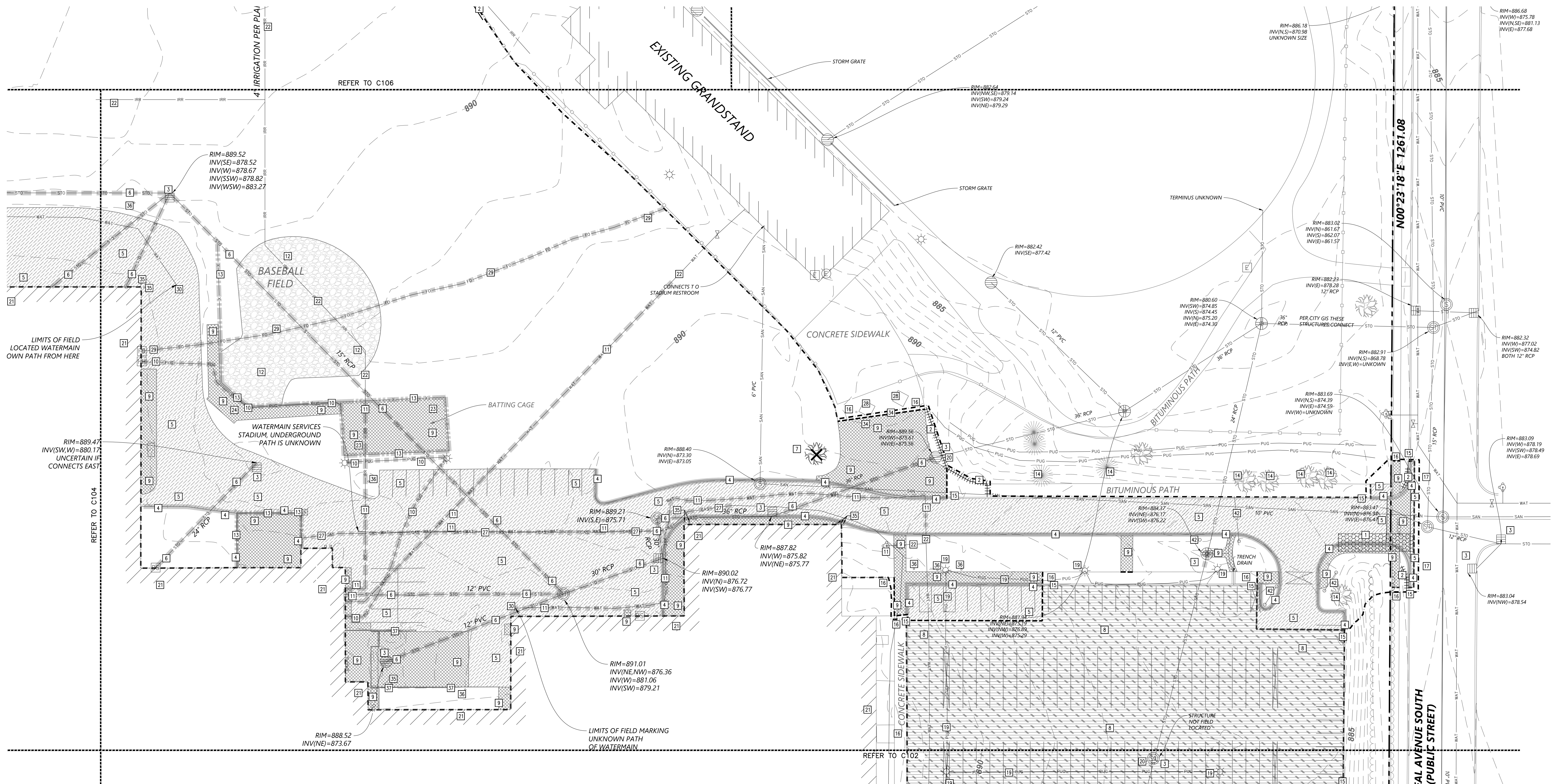
SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

PROJECT: 23270
DRAWN BY: WH
CHECKED BY: KAB
DATE: 11.1.2024
REVISIONS:

BID PACKAGE
#1: PRICING
SET

C104



1
C105
SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN
1" = 30'

KEYED NOTES

KEYED NOTES ARE DENOTED BY [] ON PLAN.

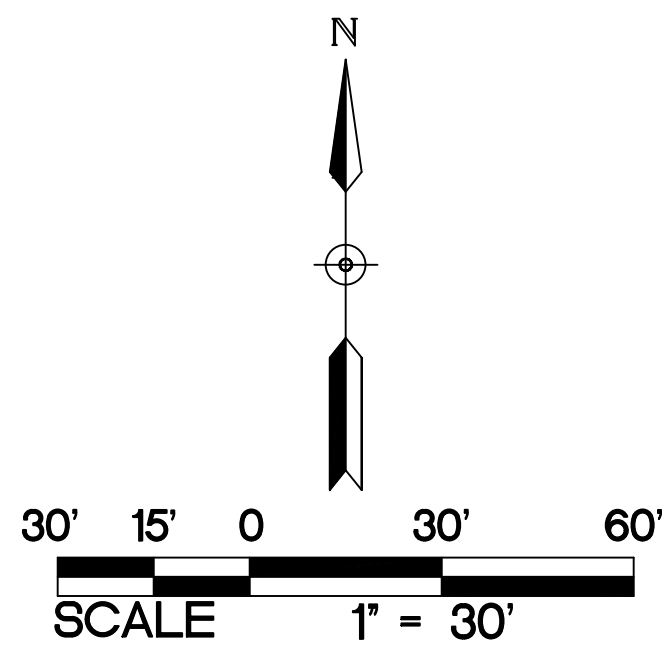
1. INSTALL CONSTRUCTION ENTRANCE. REFER TO DETAIL 1/C500.
2. INSTALL PERIMETER EROSION CONTROL. REFER TO DETAILS 2/C500 AND 3/C500.
3. INSTALL INLET SEDIMENT PROTECTION. REFER TO DETAILS 4/C500 AND 5/C500.
4. REMOVE CURB AND GUTTER IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN. SAWCUT AND REMOVE AT NEAREST JOINT.
5. SAWCUT AND REMOVE BITUMINOUS PAVEMENT IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
6. REMOVE STORM SEWER IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
7. REMOVE TREE IN ITS ENTIRETY INCLUDING STUMP.
8. PROVIDE 6-INCH DEPTH BITUMINOUS RECLAMATION AND SUBOUT SUBGRADE TO PROVIDE NEW 4-INCH BITUMINOUS SECTION. REFER TO DETAIL 7/C502 FOR NEW BITUMINOUS SECTION.
9. REMOVE CONCRETE PAVEMENT IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
10. REMOVE EXISTING ELECTRICAL LINES, LIGHT POLES, AND FOOTINGS TO THE APPROXIMATE EXTENT SHOWN. CONTRACTOR SHALL COORDINATE EXACT LIMITS OF REMOVAL WITH THE ELECTRICAL CONTRACTOR.
11. REMOVE WATER MAIN, HYDRANTS, AND VALVES IN THEIR ENTIRETY TO THE EXTENTS SHOWN.
12. REMOVE AGLIME SURFACE IN ITS ENTIRETY TO THE EXTENTS SHOWN.
13. REMOVE FENCE IN ITS ENTIRETY.
14. EXISTING TREE TO REMAIN. PROTECT AT ALL TIMES.
15. EXISTING CURB TO REMAIN. PROTECT AT ALL TIMES.
16. EXISTING CONCRETE PAVEMENT TO REMAIN. PROTECT AT ALL TIMES.
17. EXISTING BITUMINOUS PAVEMENT TO REMAIN. PROTECT AT ALL TIMES.
18. EXISTING ELECTRICAL LINES, LIGHT POLES, AND FOOTINGS TO REMAIN. PROTECT AT ALL TIMES.
19. EXISTING CATCH BASIN, MANHOLE, AND STORM SEWER TO REMAIN. PROTECT AT ALL TIMES.
20. EXISTING BUILDING TO REMAIN. PROTECT AT ALL TIMES.
21. EXISTING WATER MAIN, HYDRANTS, VALVES, AND IRRIGATION TO REMAIN. PROTECT AT ALL TIMES.
22. EXISTING NETTING TO BE SALVAGED. RETURN NETTING TO SCHOOL DISTRICT.
23. REMOVE AND SALVAGE EXISTING BLEACHERS IN THEIR ENTIRETY. COORDINATE WITH SCHOOL DISTRICT.
24. REMOVE GAS LINE IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
25. EXISTING TICKET BOOTHS TO REMAIN. PROTECT AT ALL TIMES.
26. REMOVE FIBER OPTIC LINE IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
27. EXISTING WATERMAIN ROUTING NOT IDENTIFIED ON SURVEY. CONTRACTOR SHALL FIELD VERIFY. CONTRACTOR SHALL REMOVE ANY PORTION OF THE EXISTING WATER MAIN WITHIN THE PROPOSED BUILDING FOOTPRINT.

KEYED NOTES

KEYED NOTES ARE DENOTED BY [] ON PLAN.

34. EXISTING BOLLARD TO REMAIN. PROTECT AT ALL TIMES. BOLLARD NOT IDENTIFIED ON SURVEY. LOCATION SHOWN IS APPROXIMATE.
35. REMOVE BOLLARD IN ITS ENTIRETY.
36. REMOVE SIGN IN ITS ENTIRETY INCLUDING ANY BELOW GRADE FOUNDATION.
37. REMOVE CONCRETE RETAINING WALL AND RAILING IN THEIR ENTIRETY.
42. REMOVE GATE IN ITS ENTIRETY INCLUDING ANY BELOW GRADE FOUNDATIONS.

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
SILTATION FENCE	XXXXXX
SEDIMENT CONTROL LOG	
PROPERTY LINE	----
SAWCUT LINE (APPROX.)	- - - - -
CONSTRUCTION ENTRANCE	[Pattern]
BITUMINOUS REMOVAL	[Pattern]
CONCRETE REMOVAL	[Pattern]
BITUMINOUS RECLAIM	[Pattern]
AGLIME REMOVAL	[Pattern]
CURB REMOVAL	[Pattern]
PIPE REMOVAL	[Pattern]
UTILITY REMOVAL	[Pattern]
TREE REMOVAL	[X]



ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CB	Catch Basin
CONC	Concrete
DIP	Ductile Iron Pipe
ELEV	Elevation
EX	Existing
FFE	Finished Floor Elevation
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe

NOTE:
STORM SEWER INLETS NOT SHOWN ON PLAN MAY RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITIES. INSTALL INLET SEDIMENT PROTECTION PER DETAILS 4/C500 AND 5/C500 ON ALL STORM INLETS THAT MAY RECEIVE RUNOFF.

NOTE:
REFER TO C100 FOR DEMOLITION AND REMOVAL NOTES.
REFER TO C100 FOR GENERAL NOTES.

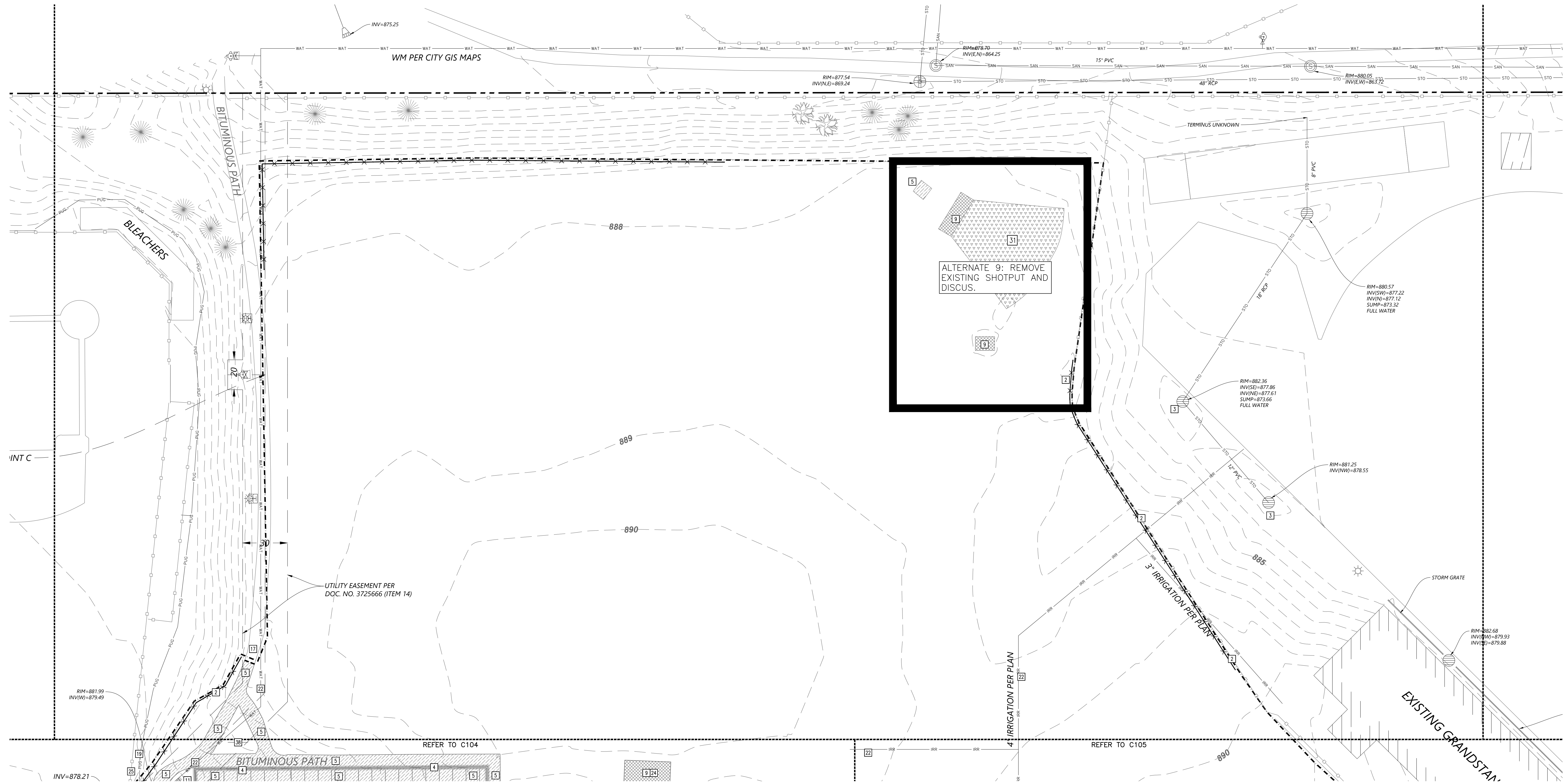
SELECTIVE SITE DEMOLITION AND
EROSION CONTROL PLAN

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

PROJECT: 23270
DRAWN BY: WH
CHECKED BY: KAB
DATE: 11.1.2024
REVISIONS:

BID PACKAGE
#1: PRICING
SET

C105



ALTERNATE 9: REMOVE EXISTING SHOTPUT AND DISCUS.

1 SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN
1" = 30'

KEYED NOTES

- KEYED NOTES ARE DENOTED BY [] ON PLAN.
- [2] INSTALL PERIMETER EROSION CONTROL. REFER TO DETAILS 2/C500 AND 3/C500.
 - [3] INSTALL INLET SEDIMENT PROTECTION. REFER TO DETAILS 4/C500 AND 5/C500.
 - [4] REMOVE CURB AND GUTTER IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN. SAWCUT AND REMOVE AT NEAREST JOINT.
 - [5] SAWCUT AND REMOVE BITUMINOUS PAVEMENT IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
 - [9] REMOVE CONCRETE PAVEMENT IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
 - [17] EXISTING BITUMINOUS PAVEMENT TO REMAIN. PROTECT AT ALL TIMES.
 - [19] EXISTING ELECTRICAL LINES, LIGHT POLES, AND FOOTINGS TO REMAIN. PROTECT AT ALL TIMES.
 - [22] EXISTING WATER MAIN, HYDRANTS, VALVES, AND IRRIGATION TO REMAIN. PROTECT AT ALL TIMES.
 - [24] REMOVE AND SALVAGE EXISTING BLEACHERS IN THEIR ENTIRETY. COORDINATE WITH SCHOOL DISTRICT.
 - [25] EXISTING FENCE TO REMAIN. PROTECT AT ALL TIMES.
 - [31] REMOVE GRAVEL SURFACE IN ITS ENTIRETY TO THE EXTENTS SHOWN.

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CB	Catch Basin
CONC	Concrete
DIP	Ductile Iron Pipe
ELEV	Elevation
EX	Existing
FTE	Finished Floor Elevation
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
SILTATION FENCE	X X
SEDIMENT CONTROL LOG	+++++
PROPERTY LINE	----
SAWCUT LINE (APPROX.)	- - - -
BITUMINOUS REMOVAL	[Hatched Pattern]
CONCRETE REMOVAL	[Cross-hatched Pattern]
GRAVEL REMOVAL	[Stippled Pattern]

North Arrow pointing up.

SCALE: 1" = 30'

30' 15' 0 30' 60'

NOTE: STORM SEWER INLETS NOT SHOWN ON PLAN MAY RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITIES. INSTALL INLET SEDIMENT PROTECTION PER DETAILS 4/C500 AND 5/C500 ON ALL STORM INLETS THAT MAY RECEIVE RUNOFF.

NOTE: REFER TO C100 FOR DEMOLITION AND REMOVAL NOTES. REFER TO C100 FOR GENERAL NOTES.



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Kevin A. Bohl
Date: 11-1-2024 License Number: 52209

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Structural & Civil Engineers

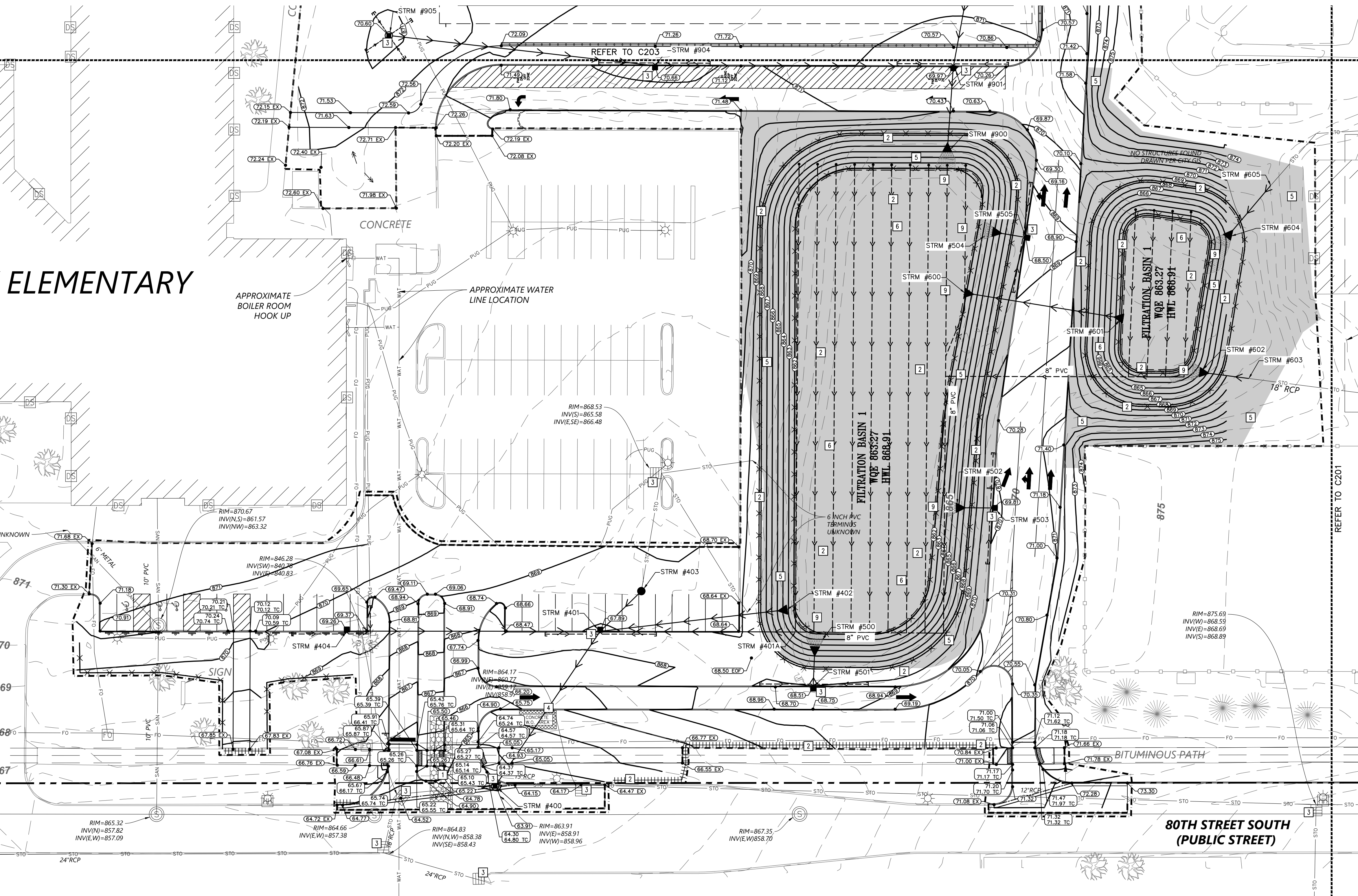
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BKBM Project No. 24222 50

SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

PROJECT: 23270
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C106



PROPOSED PLAN SYMBOLS

CONSTRUCTION LIMITS	---
SILTATION FENCE	
SEDIMENT CONTROL LOG	
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
PROPOSED CONTOUR	---
DRAIN TILE	---
STORM SEWER	---
RETAINING WALL	---
CATCH BASIN	---
MANHOLE	---
FLARED END SECTION WITH RIPRAP	---
EROSION CONTROL BLANKET (TEMPORARY)	---
ROCK CONSTRUCTION ENTRANCE	---
DRAINAGE FLOW ARROW	---
SPOT ELEVATION	---
SOIL BORING	---
CONCRETE WASHOUT AREA	---

ABBREVIATIONS

BLDG	Building
BM	Benchmark
BS	Bottom of Step
BW	Bottom of Wall
CB	Catch Basin
CONC	Concrete
ELEV	Elevation
EX	Existing
FTE	Finished Floor Elevation
HWL	High Water Level
INV	Invert
LFE	Lower Floor Elevation
MAX	Maximum
MH	Manhole
MIN	Minimum
NWL	Normal Water Level
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
STRM	Storm Sewer Structure
TC	Top of Curb
TS	Top of Step
TW	Top of Wall
W.O.	Washout
WQE	Water Quality Elevation

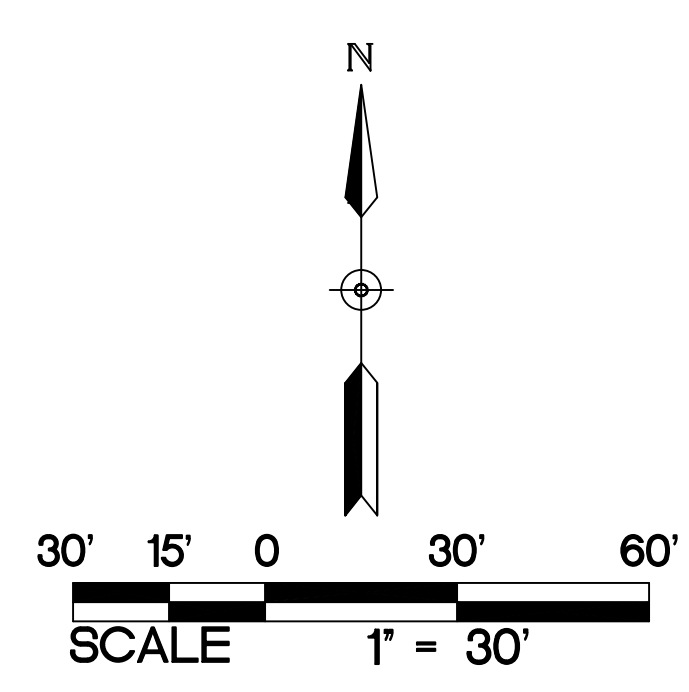
WALKWAY NOTES:

1. GRADING CONTRACTOR IS TO COORDINATE WITH PAVING CONTRACTOR SO THAT ALL STEPS AND LANDINGS ARE SLOPED PER CODE.
2. ALL SIDEWALK LONGITUDINAL AND TRANSVERSE SLOPES ARE TO BE PER CODE.

NOTE:
STORM SEWER INLETS NOT SHOWN ON PLAN MAY RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITIES. INSTALL INLET SEDIMENT PROTECTION PER DETAILS 4/C500 AND 5/C500 ON ALL STORM INLETS THAT MAY RECEIVE RUNOFF.

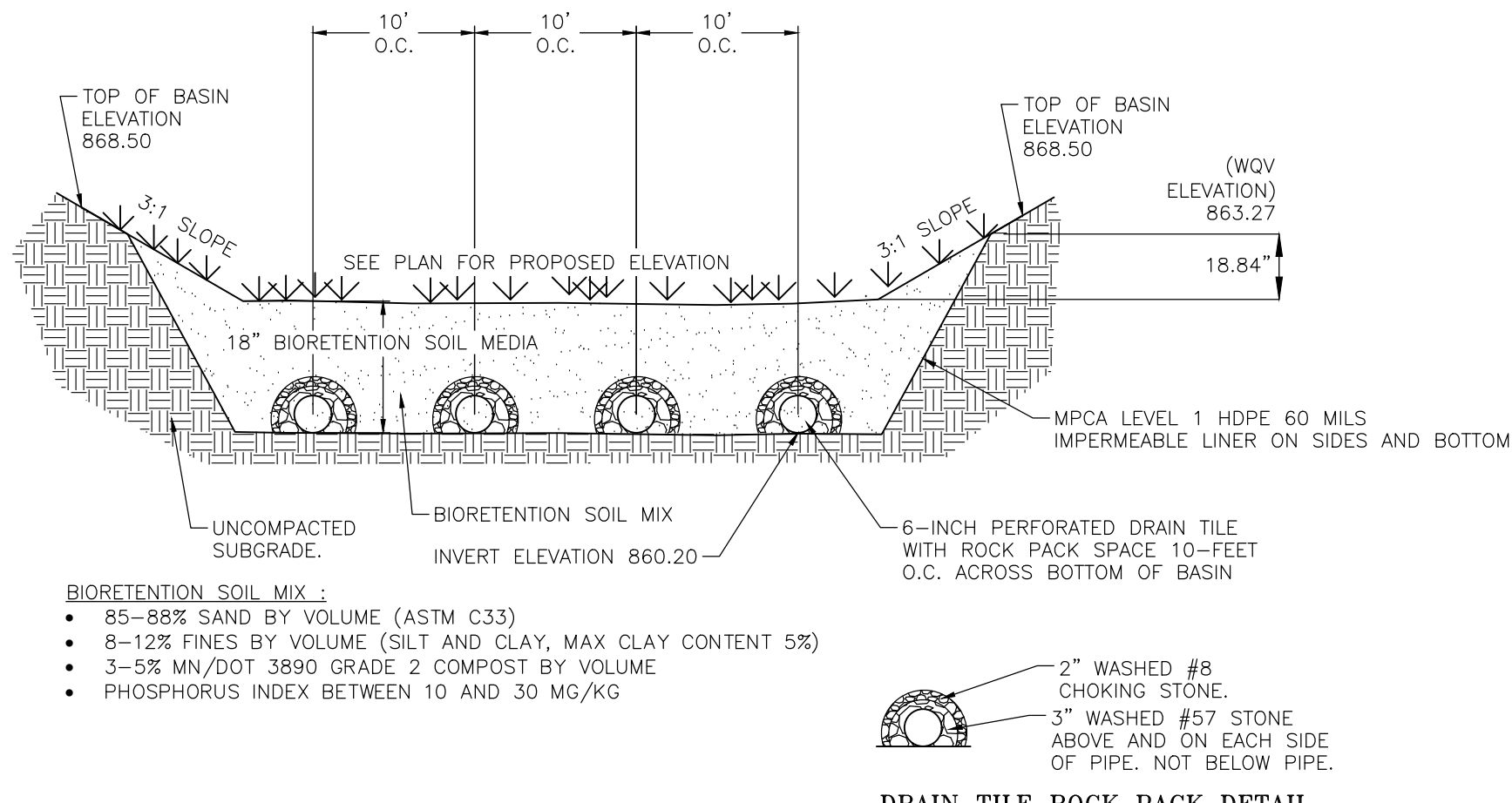
RETAINING WALL NOTES:

1. ALL TOP AND BOTTOM ELEVATIONS CORRESPOND TO THE RESPECTIVE GRADE ELEVATIONS ON EACH SIDE OF THE WALL.
2. THE BOTTOM ELEVATION IS THE ELEVATION OF THE LOW-GRADE SIDE OF THE WALL, NOT THE TOP ELEVATION OF THE BURIED FOUNDATION.
3. ALL RETAINING WALLS SHALL HAVE PROTECTIVE FENCING AT THE TOP WHERE THE VERTICAL HEIGHT EXCEEDS 30 INCHES. REFER TO ARCHITECTURAL AND LANDSCAPE PLANS AND SPECIFICATIONS.



1
C200 GRADING, DRAINAGE, AND EROSION CONTROL PLAN
1" = 30'

NOTES:
1. PLACE IN 12-15" LIFTS, HAND TAMPED. SUBMIT MIX DESIGN SHOP DRAWING FOR APPROVAL.
2. REFER TO LANDSCAPE ARCHITECTURAL PLANS FOR SEEDING.



2
C200 FILTRATION BASIN 1 DETAIL
NOT TO SCALE

GRADING NOTES:

1. THE CONTRACTOR SHALL VISIT THE SITE, REVIEW ALL CONSTRUCTION DOCUMENTS, AND FIELD VERIFY THE EXISTING CONDITIONS PRIOR TO BIDDING. NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR WORK THAT COULD HAVE BEEN IDENTIFIED BY A SITE VISIT OR CONSTRUCTION DOCUMENT REVIEW.
2. THE BACKGROUND INFORMATION WAS PREPARED BY WESTWOOD PROFESSIONAL SERVICES, (952) 937-5150.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION AND MARK ALL EXISTING UTILITIES 48 HOURS BEFORE CONSTRUCTION STARTS. THE ENGINEER, ARCHITECT, OR OWNER DOES NOT GUARANTEE THAT ALL THE UTILITIES ARE MAPPED, OR, IF MAPPED, ARE SHOWN CORRECTLY. CONTACT Gopher State One Call at 651-454-0002 FOR FIELD LOCATING EXISTING UTILITIES. CONTACT UTILITY OWNER IF DAMAGE OCCURS DUE TO CONSTRUCTION.
4. PROTECT ALL EXISTING STRUCTURES AND UTILITIES WHICH ARE NOT SCHEDULED FOR REMOVAL.
5. NOTIFY CITY BUILDING INSPECTOR BEFORE TRENCHING AND EXCAVATION WORK COMMENCES. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS PRIOR TO START OF CONSTRUCTION.
6. ALL SPOT ELEVATIONS SHOWN AS 68.88, FOR EXAMPLE, ARE TO BE UNDERSTOOD TO MEAN 68.88.
7. ALL SPOT ELEVATIONS ALONG THE CURB-LINE INDICATE THE ELEVATION OF THE GUTTER UNLESS NOTED OTHERWISE.
8. NO LANDSCAPED SLOPES ARE TO EXCEED 3:1 (3 FEET HORIZONTAL TO 1 FOOT VERTICAL) UNLESS NOTED OTHERWISE.
9. ACCESSIBLE PARKING AREAS SHALL NOT HAVE SLOPES IN ANY DIRECTION THAT EXCEED 2%.
10. PROVIDE POSITIVE DRAINAGE FROM BUILDINGS AT ALL TIMES.
11. **UPON COMPLETION OF THE GRADING AND UTILITY WORK, THE CONTRACTOR SHALL CERTIFY THAT ALL GRADING AND UTILITY WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED GRADING AND UTILITY PERMITS. AN AS-BUILT GRADING AND UTILITY PLAN SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR HIRED BY THE CONTRACTOR. SURVEY SHALL BE PROVIDED TO CIVIL ENGINEER.**
12. PRIOR TO ISSUANCE OF BUILDING PERMITS, ALL NECESSARY EROSION CONTROL DEVICES MUST BE IN PLACE AND FUNCTIONING. THE CITY (AND SOUTH WASHINGTON WATERSHED DISTRICT) WILL INSPECT THE SITE TO DETERMINE ITS SUITABILITY FOR BUILDING ACTIVITIES. IF THE PUBLIC UTILITIES HAVE NOT BEEN INSTALLED AT THIS POINT, IT MAY BE NECESSARY TO WITHHOLD BUILDING PERMITS FOR VARIOUS LOTS TO ALLOW THE CONTRACTOR ADEQUATE SPACE TO PERFORM THIS WORK.
13. ALL DEBRIS CREATED IN THE PROCESS OF CLEARING AND GRADING THE SITE SHALL BE REMOVED FROM THE SITE. THIS INCLUDES TREES AND SHRUBS. UNDER NO CIRCUMSTANCES SHALL THIS TYPE OF MATERIAL BE BURIED OR BURNED ON THE SITE.
14. THE CONTRACTOR MAY STRIP AND SALVAGE TOPSOIL FOR POTENTIAL RE-SPREADING ON THE SITE, IF APPROVED BY THE LANDSCAPE ARCHITECT AND/OR SPECIFICATIONS. SIX INCHES OF TOPSOIL - AFTER COMPACTION - SHALL BE RE-SPREAD PRIOR TO SEEDING AND MULCHING. EXCESS TOPSOIL MAY BE REMOVED FROM THE SITE PROVIDED THERE IS ADEQUATE TOPSOIL REMAINING TO PROPERLY FINISH THE SITE AS NOTED ABOVE. THE TOPSOIL STRIPPING, STOCKPILING, AND RE-SPREADING SHALL BE DONE IN ACCORDANCE WITH, AND NOTED ON, THE APPROVED GRADING PLAN AND SPECIFICATIONS. THE CONTRACTOR SHALL REFER TO THE LANDSCAPE DRAWINGS AND SPECIFICATIONS FOR ANY SPECIAL TOPSOIL OR PLANTING REQUIREMENTS.
15. ALL GRADING OPERATIONS SHALL BE CONDUCTED IN A MANNER TO MINIMIZE THE POTENTIAL FOR SITE EROSION. EROSION CONTROL MEASURES SHALL BE INSTALLED TO PREVENT SEDIMENT FROM RUNNING OFF ONTO ADJACENT PROPERTIES. ANY DAMAGE TO ADJACENT PROPERTIES MUST BE CORRECTED AND RESTORED AS SOON AS PERMISSION IS GRANTED FROM THE ADJACENT PROPERTY OWNER(S).
16. IF CONSTRUCTION OF THE SITE WORK PROCEEDS THROUGH THE WINTER MONTHS, ANY DISTURBED AREAS OUTSIDE THE BUILDING FOOTPRINTS ARE TO BE MINIMALLY STABILIZED PRIOR TO MARCH 1 AS FOLLOWS: AREAS PLANNED TO RECEIVE PAVEMENTS ARE TO HAVE CLASS 5 BASE INSTALLED; ALL OTHER DISTURBED AREAS ARE TO BE SEEDED, STRAW MULCH PLACED, AND DISC-ANCHORED.
17. WINTER MULCHING:
 - 17.A. SNOW MULCHING SHALL BE DEFINED AS MULCH MATERIAL SPREAD OVER THE TOP OF SNOW SO THAT THE MULCH MELTS THROUGH THE SNOW AND STICKS TO THE EXPOSED SOILS.
 - 17.B. FROZEN GROUND MULCHING SHALL BE DEFINED AS MULCH MATERIAL SPREAD OVER FROZEN GROUND. MULCH MATERIALS THAT DO NOT REQUIRE DISC-ANCHORING INTO THE SOIL MAY BE IN-PLACED. MULCH MATERIALS THAT REQUIRE DISC-ANCHORING MAY BE ANCHORED WITH HYDRAULIC SOIL STABILIZERS OR MAY BE FROZEN TO THE SOIL BY APPLYING WATER AT A RATE OF 2000 GALLONS PER ACRE OVER THE MULCH AS A SUBSTITUTION FOR DISC-ANCHORING.
18. RETAINING WALLS AND APPROPRIATE SAFETY FENCING ALONG THE TOP OF WALLS ARE TO BE DESIGNED AND CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER. SUBMIT RETAINING WALL SHOP DRAWINGS TO PROJECT TEAM PRIOR TO CONSTRUCTION.
19. THE CONTRACTOR SHALL LIMIT THE DISTURBED AREA AS MUCH AS POSSIBLE.

EROSION CONTROL NOTES:

1. ALL EROSION CONTROL FACILITIES SHALL BE INSTALLED PRIOR TO ANY SITE GRADING OPERATIONS. THE CITY ENGINEERING DEPARTMENT AND SOUTH WASHINGTON WATERSHED DISTRICT MUST BE NOTIFIED UPON COMPLETION OF THE INSTALLATION OF THE REQUIRED EROSION CONTROL FACILITIES AND PRIOR TO ANY GRADING OPERATION BEING COMMENCED. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION GRADING MEETING ON-SITE WITH THE CITY AND SOUTH WASHINGTON WATERSHED DISTRICT. IF DAMAGED OR REMOVED DURING CONSTRUCTION, ALL EROSION CONTROL FACILITIES SHALL BE RESTORED AND IN PLACE AT THE END OF EACH DAY.
2. ANY EROSION CONTROL FACILITIES DEEMED NECESSARY BY THE CITY OR SOUTH WASHINGTON WATERSHED DISTRICT, BEFORE, DURING, OR AFTER THE GRADING ACTIVITIES, SHALL BE INSTALLED AT THEIR REQUEST.
3. NO DEVIATIONS SHALL BE MADE FROM THE ELEVATIONS SHOWN ON THE APPROVED GRADING PLAN WITHOUT PRIOR APPROVAL FROM THE CIVIL ENGINEER.
4. FOR SITES GREATER THAN 1.0 ACRE, AS REQUIRED BY THE MPCA PERMIT REQUIREMENTS, THE PERMIT APPLICANT MUST KEEP AN EROSION CONTROL INSPECTION LOG. INSPECTION MUST BE MADE ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER EVERY RAIN EVENT. THE INSPECTION RECORD MUST BE MADE AVAILABLE TO THE CITY AND SOUTH WASHINGTON WATERSHED DISTRICT WITHIN 24 HOURS OF REQUEST.
5. FLOWS FROM DIVERSION CHANNELS OR PIPES (TEMPORARY OR PERMANENT) SHALL BE ROUTED TO SEDIMENTATION BASINS OR APPROPRIATE ENERGY DISSIPATORS TO PREVENT TRANSPORT OF SEDIMENT TO OUTFLOW TO LATERAL CONVEYORS AND TO PREVENT EROSION AND SEDIMENTATION WHEN RUNOFF FLOWS INTO THESE CONVEYORS.
6. SITE ACCESS ROADS SHALL BE GRADED OR OTHERWISE PROTECTED WITH SILT FENCES, DIVERSION CHANNELS, OR DIKES AND PIPES TO PREVENT SEDIMENT FROM EXITING THE SITE VIA THE ACCESS ROADS. SITE-ACCESS ROADS/DRIVEWAYS SHALL BE SURFACED WITH CRUSHED ROCK WHERE THEY ADJOIN EXISTING PAVED ROADWAYS.
7. SOILS TRACKED FROM THE SITE BY MOTOR VEHICLES OR EQUIPMENT SHALL BE CLEANED DAILY FROM PAVED ROADWAY SURFACES, OR MORE FREQUENTLY IF REQUESTED BY THE CITY OR SOUTH WASHINGTON WATERSHED DISTRICT, THROUGHOUT THE DURATION OF CONSTRUCTION.
8. DUST CONTROL MEASURES SHALL BE PERFORMED PERIODICALLY WHEN CONDITIONS REQUIRE AND/OR AS DIRECTED BY THE CITY OR SOUTH WASHINGTON WATERSHED DISTRICT.
9. ALL EROSION CONTROL MEASURES SHALL BE USED AND MAINTAINED FOR THE DURATION OF SITE CONSTRUCTION. IF CONSTRUCTION OPERATIONS OR NATURAL EVENTS DAMAGE OR INTERFERE WITH THESE EROSION CONTROL MEASURES, THEY SHALL BE RESTORED TO SERVE THEIR INTENDED FUNCTION AT THE END OF EACH DAY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
10. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED AS SOON AS POSSIBLE. ANY AREAS WHICH HAVE BEEN FINISHED GRADED OR AREAS THAT HAVE BEEN DISTURBED AND FOR WHICH GRADING OR SITE BUILDING CONSTRUCTION OPERATIONS ARE NOT ACTIVELY UNDERWAY SHALL BE SEEDED AND MULCHED AS SET FORTH IN THE FOLLOWING PARAGRAPHS WITHIN 14 DAYS:
 - A. ALL SEEDED AREAS SHALL BE EITHER MULCHED AND DISC-ANCHORED OR COVERED BY FIBROUS BLANKETS TO PROTECT SEEDS AND LIMIT EROSION. TEMPORARY STRAW MULCH SHALL BE DISC-ANCHORED AND APPLIED AT A UNIFORM RATE OF NOT LESS THAN TWO TONS PER ACRE AND NOT LESS THAN 80% COVERAGE.
 - B. IF THE GRADED AREA IS ANTICIPATED TO BE RE-DISTURBED/DEVELOPED WITHIN SIX MONTHS, PROVIDE A TEMPORARY VEGETATIVE COVER CONSISTING OF MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) SEED MIXTURE 21-111 (OATS), OR 21-112 (WINTER WHEAT), AT A RATE OF 100 POUNDS PER ACRE.
 - C. IF GRADED AREA WILL NOT BE DEVELOPED FOR A PERIOD GREATER THAN SIX MONTHS, PROVIDE A SEMI-PERMANENT VEGETATIVE COVER OF SEED MIXTURE MNDOT 22-112 AT A RATE OF 40 POUNDS PER ACRE.
 - D. GRADING BONDS OR THE EQUIVALENT SECURITIES SHALL BE RETAINED UNTIL TURF HAS GERMINATED AND SURVIVED A 60-DAY GROWING PERIOD.
 - E. REFER TO LANDSCAPE PLANS FOR PERMANENT TURF RESTORATION.
 - F. WHENEVER OTHER EROSION AND SEDIMENT CONTROL PRACTICES ARE INADEQUATE, TEMPORARY ON-SITE SEDIMENT BASINS THAT CONFORM TO THE CRITERIA FOR ON-SITE DETENTION BASINS SHALL BE PROVIDED.
 - G. MULCH, HYDROMULCH, AND TACKIFIERS MAY NOT BE USED FOR STABILIZATION IN SWALES OR DRAINAGE DITCHES UNLESS THE LONGITUDINAL SLOPE IS LESS THAN 2 PERCENT.
 - H. RUNOFF SHALL BE PREVENTED FROM ENTERING ALL STORM SEWER CATCH BASINS PROVIDING THEY ARE NOT NEEDED DURING CONSTRUCTION, WHERE STORM SEWER CATCH BASINS ARE NECESSARY FOR SITE DRAINAGE DURING CONSTRUCTION, SEDIMENT PROTECTION DEVICES AS DETAILED SHALL BE INSTALLED AND MAINTAINED AROUND ALL CATCH BASINS UNTIL THE TRIBUTARY AREA TO THE CATCH BASIN IS RESTORED.
11. GRADING ACTIVITIES PROPOSED TO BEGIN AFTER OCTOBER 15 WILL REQUIRE AN APPROVED PHASING SCHEDULE. THE AREA OF LAND THAT THE CITY WILL ALLOW TO BE DISTURBED AT THIS TIME OF YEAR WILL BE SEVERELY LIMITED. THE CITY WILL ALSO REQUIRE ADDITIONAL EROSION CONTROL DEVICES, I.E., TEMPORARY SEDIMENT BASINS, DORMANT SEEDING AND HIGH RATES OF APPLICATION OF BOTH SEED AND MULCH.
12. FILTER BLANKET AND RIPRAP SHALL BE INSTALLED ON THE DOWNSTREAM SIDES OF ALL STORM SEWER OUTLETS 24 HOURS AFTER CONSTRUCTION AS INDICATED AND DETAILED. ALL RIPRAP SHALL BE INSTALLED WITH A FILTER MATERIAL MEETING THE MNDOT SPECIFICATIONS FOR RIPRAP AND FILTER MATERIAL.
13. EROSION CONTROL FACILITIES SHALL BE INSTALLED AND MAINTAINED AROUND THE PERIMETER OF ALL PONDS AND WETLANDS WITHIN OR ADJACENT TO THE AREA TO BE GRADED UNTIL THE TRIBUTARY AREA TO THE POND OR WETLAND IS RESTORED.
14. TO MINIMIZE EROSION, ALL 3:1 SLOPES SHALL BE COVERED WITH A MN/DOT 3885 CATEGORY 20 STRAW EROSION CONTROL BLANKETS OR STAKED SOIL.
15. ACCUMULATION OF ALL SEDIMENT OCCURRING IN PONDS, WETLANDS, STORM SEWERS, AND DITCHES SHALL BE REMOVED PRIOR TO, DURING, AND AFTER COMPLETION OF GRADING ACTIVITIES.
16. EROSION CONTROL ITEMS AND DEVICES SHALL BE REMOVED ONLY AFTER THE AREA HAS RECEIVED FINAL STABILIZATION OR AS DIRECTED BY THE CITY AND/OR SOUTH WASHINGTON WATERSHED DISTRICT.

SO WASH CO SCHOOLS

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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 MN.
Kevin A. Bohl
Date 11-1-2024 License Number: 52209

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GRADING, DRAINAGE, AND EROSION CONTROL PLAN

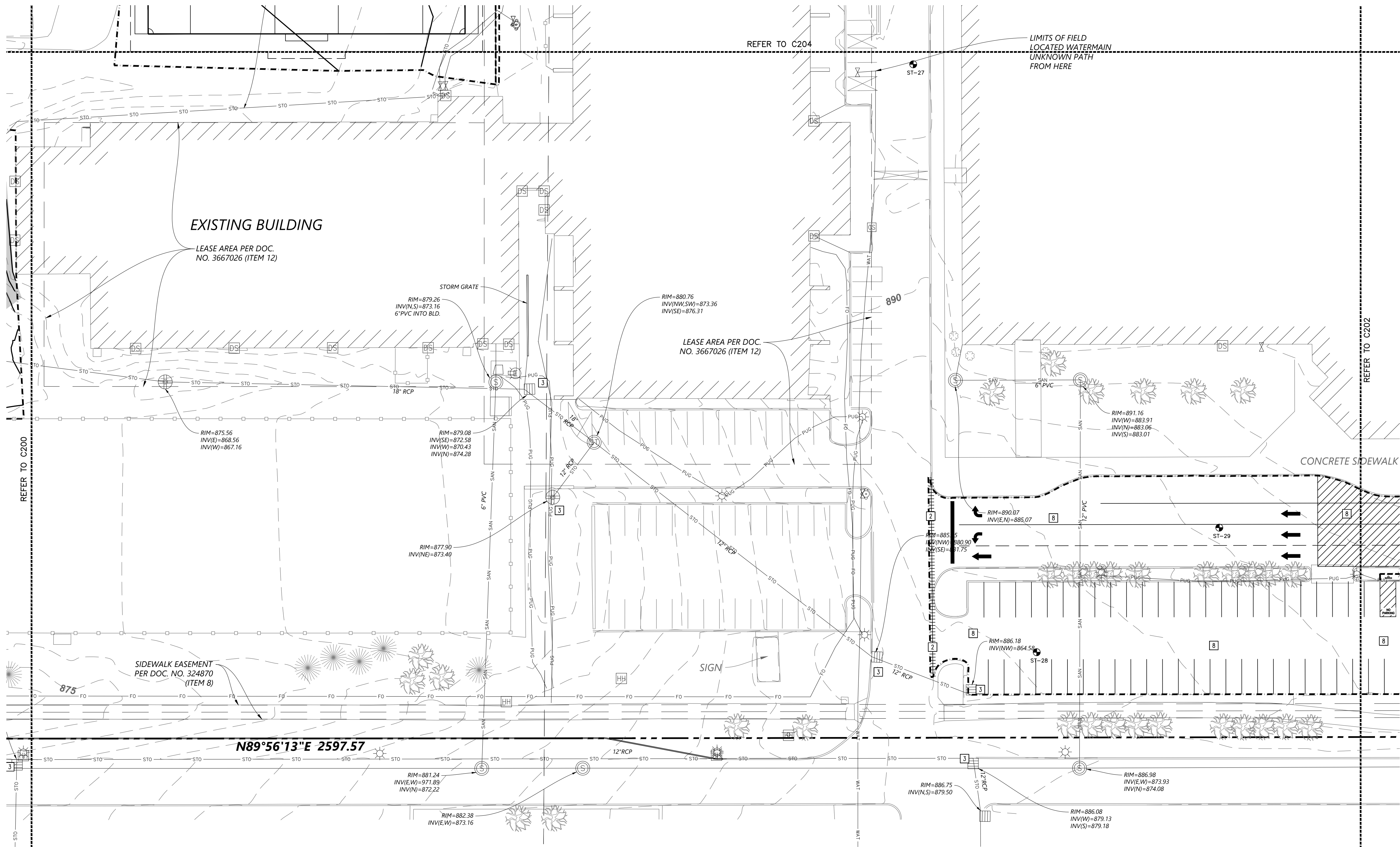
PARK HIGH SCHOOL ADDITIONS & RENOVATIONS

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DATE: 11.1.2024
REVISIONS:

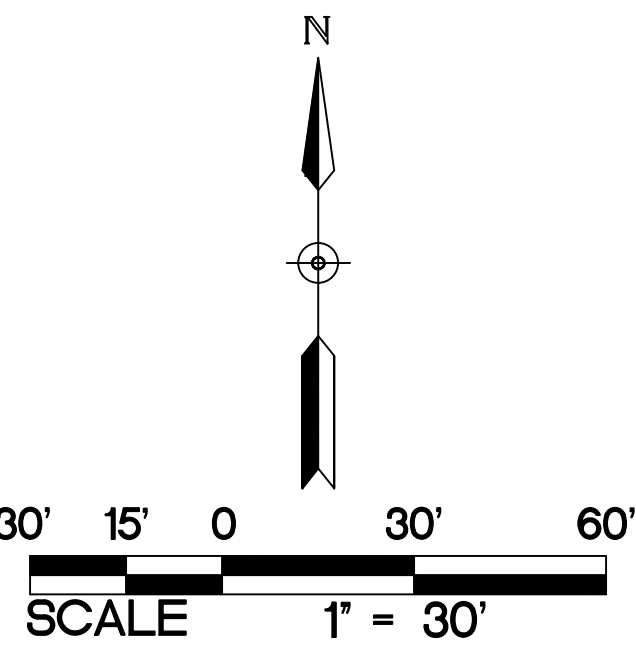
BID PACKAGE #1: PRICING SET

C200



1
C201 GRADING, DRAINAGE, AND EROSION CONTROL PLAN
1" = 30'

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
BS	Bottom of Step
BW	Bottom of Wall
CB	Catch Basin
CONC	Concrete
ELEV	Elevation
EX	Existing
FTE	Finished Floor Elevation
HWL	High Water Level
INV	Invert
LFE	Lower Floor Elevation
MAX	Maximum
MH	Manhole
MIN	Minimum
NWL	Normal Water Level
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
STRM	Storm Sewer Structure
TC	Top of Curb
TS	Top of Step
TW	Top of Wall
W.O.	Washout
WQE	Water Quality Elevation



PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	----
PROPERTY LINE	-----
SEDIMENT CONTROL LOG	=====
SAWCUT LINE (APPROX.)	-----
PROPOSED CONTOUR	---
EROSION CONTROL BLANKET (TEMPORARY)	---
SOIL BORING	SB-1

NOTE:
STORM SEWER INLETS NOT SHOWN ON PLAN
MAY RECEIVE RUNOFF FROM CONSTRUCTION
ACTIVITIES. INSTALL INLET SEDIMENT
PROTECTION PER DETAILS 4/C500 AND
5/C500 ON ALL STORM INLETS THAT MAY
RECEIVE RUNOFF.

WALKWAY NOTES:
1. GRADING CONTRACTOR IS TO
COORDINATE WITH PAVING CONTRACTOR
SO THAT ALL STEPS AND LANDINGS ARE
SLOPED PER CODE.
2. ALL SIDEWALK LONGITUDINAL AND
TRANSVERSE SLOPES ARE TO BE PER
CODE.

NOTE:
REFER TO C200 FOR EROSION CONTROL
NOTES.
REFER TO C200 FOR GRADING NOTES.

KEYED NOTES

KEYED NOTES ARE DENOTED BY [NO] ON PLAN.

[2] INSTALL PERIMETER EROSION CONTROL. REFER TO DETAILS 2/C500 AND 3/C500.

[3] INSTALL INLET SEDIMENT PROTECTION. REFER TO DETAILS 4/C500 AND 5/C500.

[8] CONTRACTOR SHALL MATCH EXISTING GRADING CONDITIONS IN RECLAIMED PAVEMENT AREA. PRIOR TO
INSTALLATION OF PAVEMENT, CONTRACTOR SHALL VERIFY THAT EXISTING CONDITIONS WILL NOT
CREATE ANY PONDING. IF DRAINAGE ISSUES APPEAR TO BE PRESENT, CONTRACTOR SHALL CONTACT
CIVIL ENGINEER FOR NEXT STEPS.

so
wash
co
SCHOOLS



K&A-ANDERSON CONSTRUCTION COMPANY
901 SOUTH EIGHTH STREET, MINNEAPOLIS, MN 55404
P. 612.333.7281

KOMA
ARCHITECTS | DESIGNERS | ENGINEERS

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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 MN.

Kevin A. Bohl
Date: 11-1-2024 License Number: 52209

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GRADING, DRAINAGE, AND EROSION CONTROL PLAN

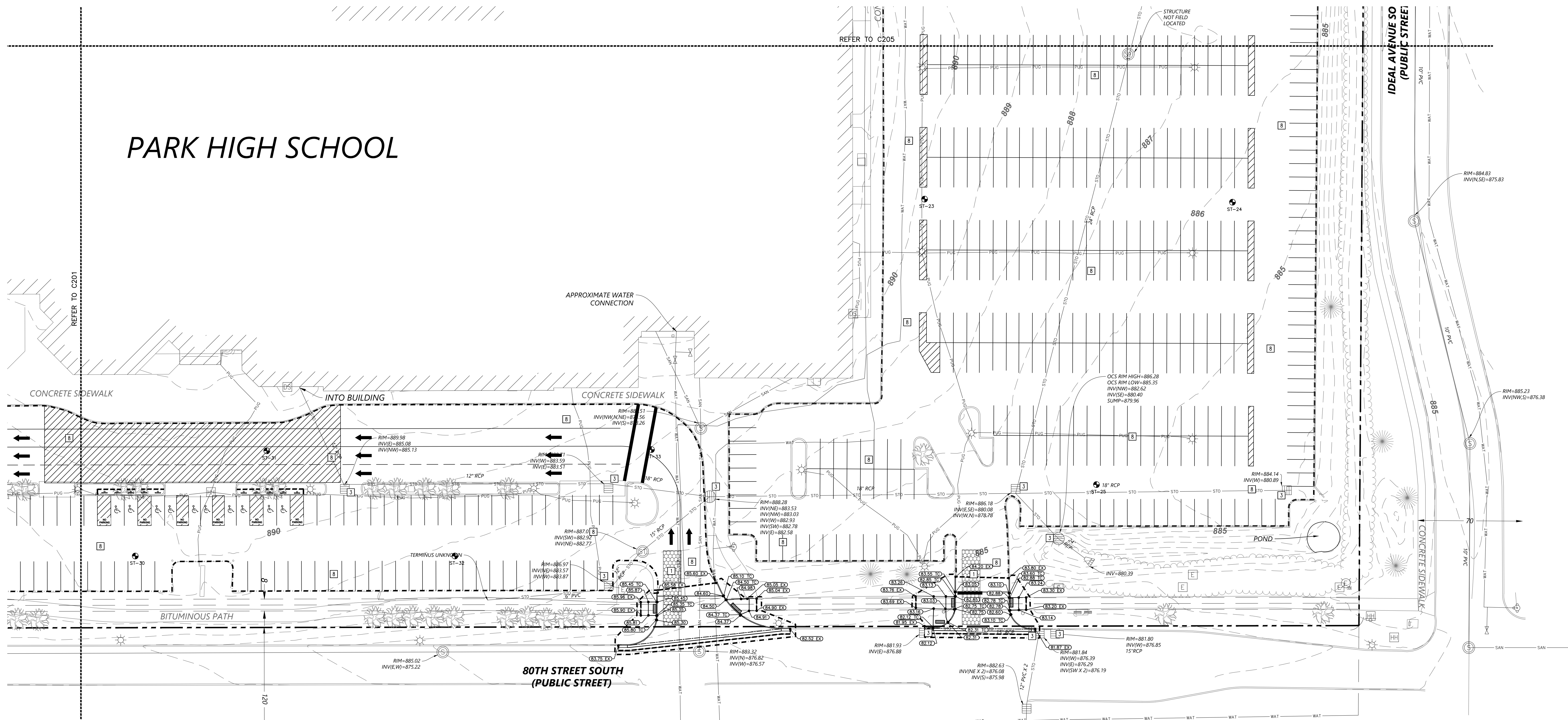
PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

PROJECT: 23270
DRAWN BY: WH
CHECKED BY: KAB
DATE: 11.1.2024
REVISIONS:

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SET

C201

PARK HIGH SCHOOL



1 GRADING, DRAINAGE, AND EROSION CONTROL PLAN
C202 1" = 30'

KEYED NOTES

KEYED NOTES ARE DENOTED BY [Symbol] ON PLAN.

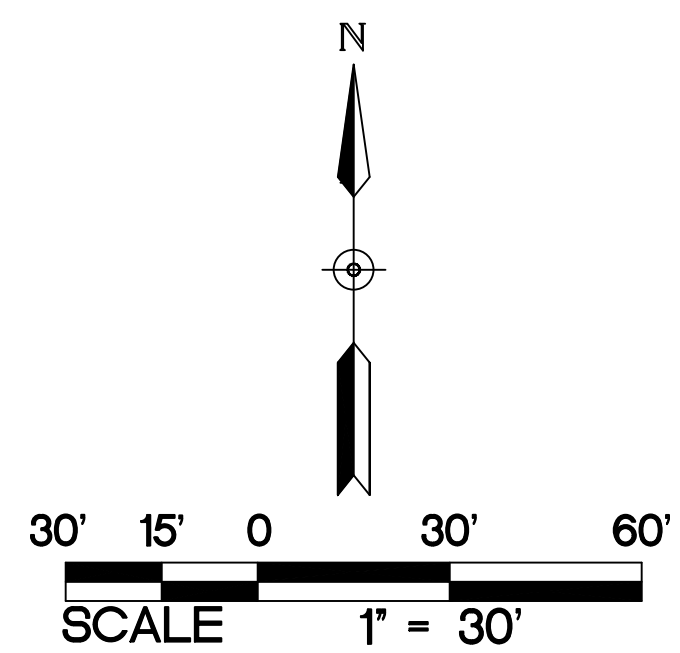
[1] INSTALL CONSTRUCTION ENTRANCE. REFER TO DETAIL 1/C500.

[3] INSTALL INLET SEDIMENT PROTECTION. REFER TO DETAILS 4/C500 AND 5/C500.

[2] CONTRACTOR SHALL MATCH EXISTING GRADING CONDITIONS IN RECLAIMED PAVEMENT AREA. PRIOR TO INSTALLATION OF PAVEMENT, CONTRACTOR SHALL VERIFY THAT EXISTING CONDITIONS WILL NOT CREATE ANY PONDING. IF DRAINAGE ISSUES APPEAR TO BE PRESENT, CONTRACTOR SHALL CONTACT CIVIL ENGINEER FOR NEXT STEPS.

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
BS	Bottom of Step
BW	Bottom of Wall
CB	Catch Basin
CONC	Concrete
ELEV	Elevation
EX	Existing
FFE	Finished Floor Elevation
HWL	High Water Level
INV	Invert
LFE	Lower Floor Elevation
MAX	Maximum
MH	Manhole
MIN	Minimum
NWL	Normal Water Level
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
STRM	Storm Sewer Structure
TC	Top of Curb
TS	Top of Step
TW	Top of Wall
W.O.	Washout
WQE	Water Quality Elevation

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
SOIL BORING	SB-1



NOTE:
STORM SEWER INLETS NOT SHOWN ON PLAN
MAY RECEIVE RUNOFF FROM CONSTRUCTION
ACTIVITIES. INSTALL INLET SEDIMENT
PROTECTION PER DETAILS 4/C500 AND
5/C500 ON ALL STORM INLETS THAT MAY
RECEIVE RUNOFF.

WALKWAY NOTES:
1. GRADING CONTRACTOR IS TO
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SO THAT ALL STEPS AND LANDINGS ARE
SLOPED PER CODE.
2. ALL SIDEWALK LONGITUDINAL AND
TRANSVERSE SLOPES ARE TO BE PER
CODE.

NOTE:
REFER TO C200 FOR EROSION CONTROL
NOTES.
REFER TO C200 FOR GRADING NOTES.

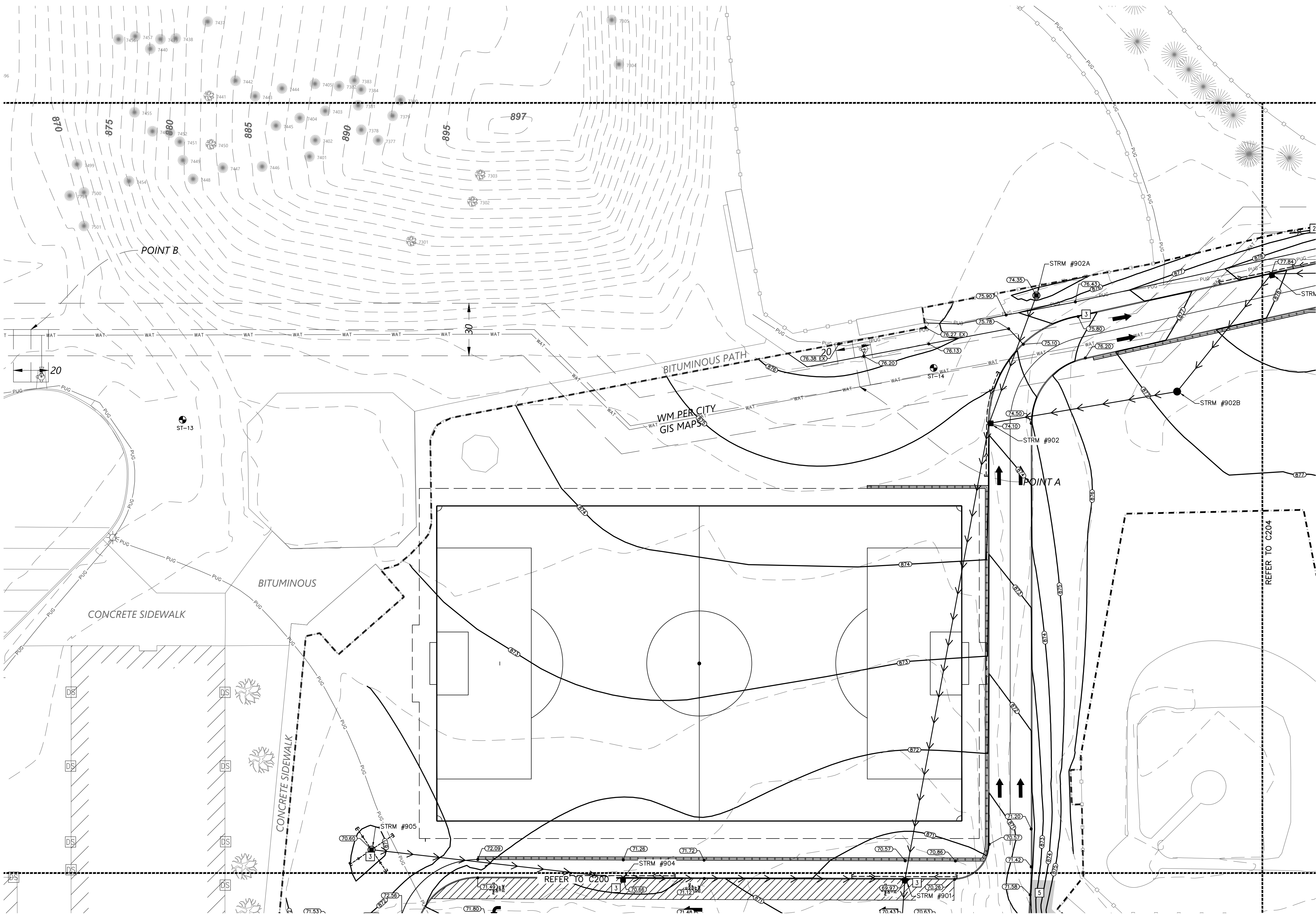
GRADING, DRAINAGE, AND EROSION CONTROL PLAN

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

PROJECT: 23270
DRAWN BY: WH
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C202



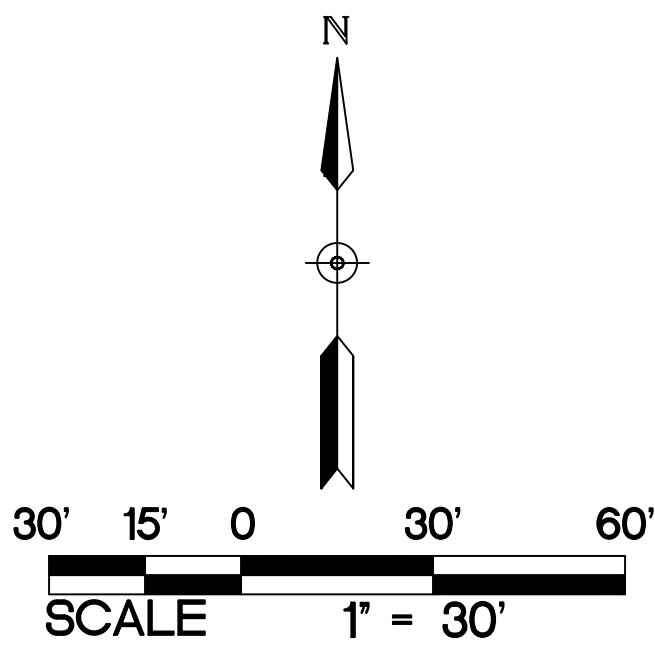
1
C203 GRADING, DRAINAGE, AND EROSION CONTROL PLAN
1" = 30'

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
BS	Bottom of Step
BW	Bottom of Wall
CB	Catch Basin
CONC	Concrete
ELEV	Elevation
EX	Existing
FTE	Finished Floor Elevation
HWL	High Water Level
INV	Invert
LFE	Lower Floor Elevation
MAX	Maximum
MH	Manhole
MIN	Minimum
NWL	Normal Water Level
PVC	Polyvinyl Chloride
PCP	Reinforced Concrete Pipe
STRM	Storm Sewer Structure
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W.O.	Washout
WQE	Water Quality Elevation

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
PROPOSED CONTOUR	---
DRAIN TILE	---
STORM SEWER	---
CATCH BASIN	---
MANHOLE	---
EROSION CONTROL BLANKET (TEMPORARY)	---
DRAINAGE FLOW ARROW	---
SPOT ELEVATION	---
SOIL BORING	---

KEYED NOTES

- KEYED NOTES ARE DENOTED BY [] ON PLAN.
- [] INSTALL INLET SEDIMENT PROTECTION. REFER TO DETAILS 4/C500 AND 5/C500.
- [] INSTALL MN/DOT 3885 CATEGORY 20 TEMPORARY STRAW FIBER EROSION CONTROL BLANKET.



NOTE:
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PROTECTION PER DETAILS 4/C500 AND
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2. ALL SIDEWALK LONGITUDINAL AND
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NOTE:
REFER
NOTES.
REFER TO C200 FOR EROSION CONTROL
NOTES.
REFER TO C200 FOR GRADING NOTES.



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I hereby certify that this plan, specification or report was
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of the State of MN.

Kevin A. Bohl
Date: 11-1-2024 License Number: 52209



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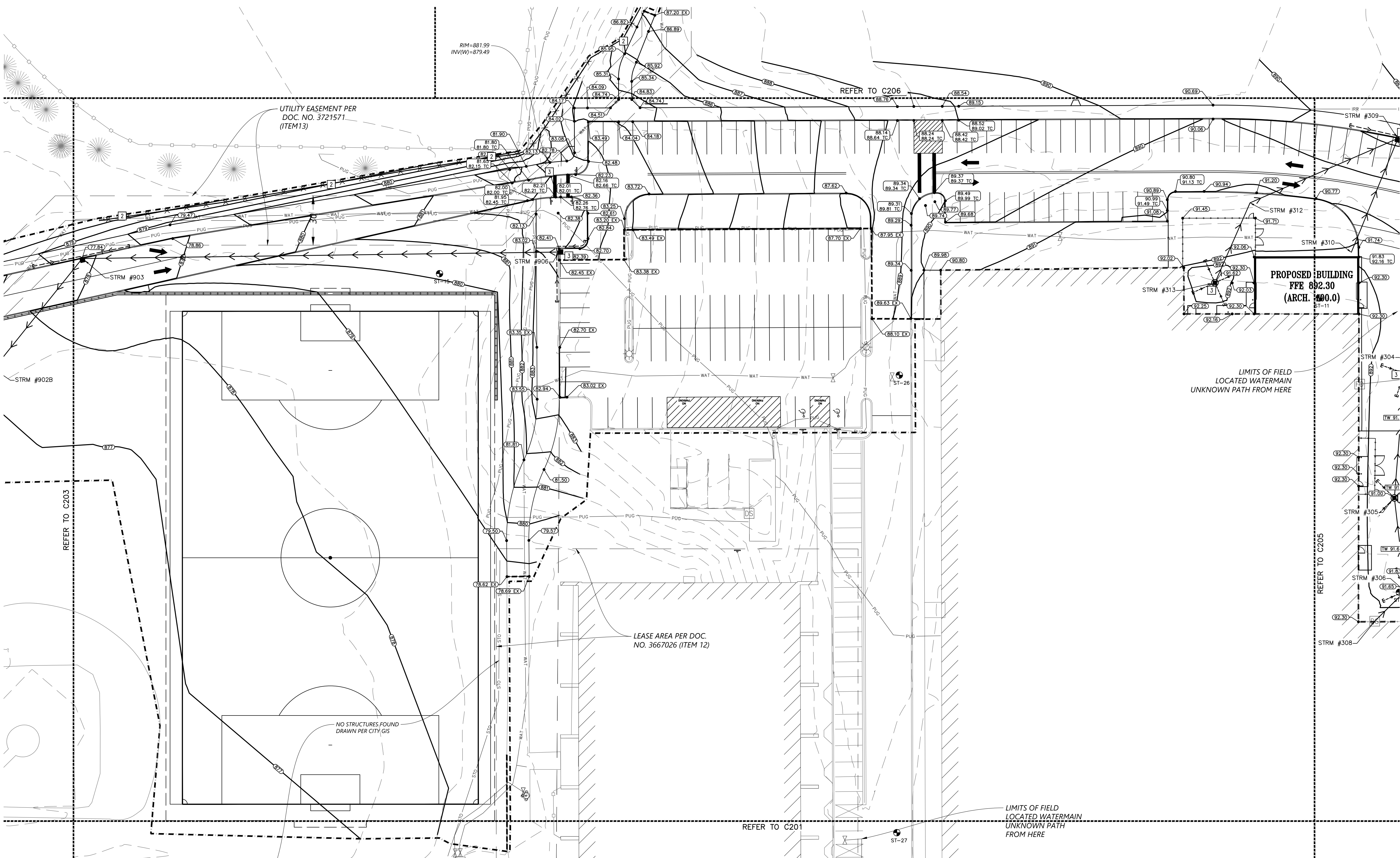
GRADING, DRAINAGE, AND
EROSION CONTROL PLAN

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

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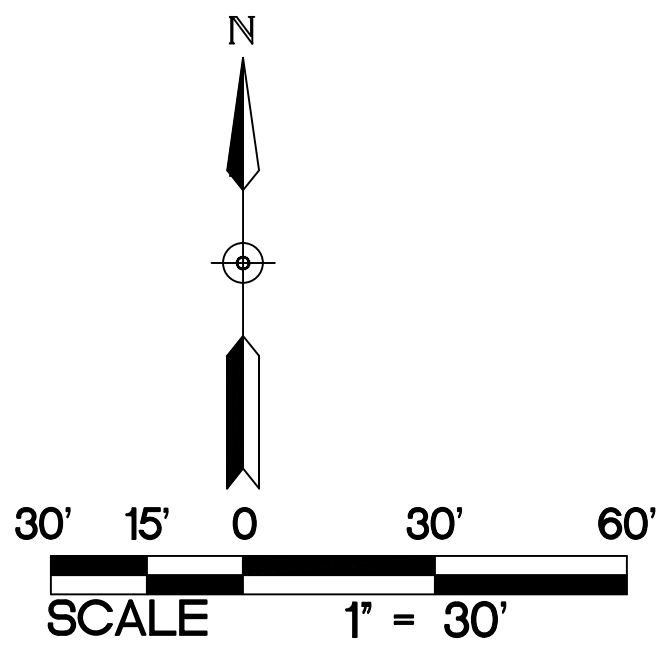
C203



1
C204 GRADING, DRAINAGE, AND EROSION CONTROL PLAN
1" = 30'

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
BS	Bottom of Step
BW	Bottom of Wall
CB	Catch Basin
CONC	Concrete
ELEV	Elevation
EX	Existing
FTE	Finished Floor Elevation
HWL	High Water Level
INV	Invert
LFE	Lower Floor Elevation
MAX	Maximum
MH	Manhole
MIN	Minimum
NWL	Normal Water Level
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
STRM	Storm Sewer Structure
TC	Top of Curb
TS	Top of Step
TW	Top of Wall
W.D.	Washout
WQE	Water Quality Elevation

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
SILTATION FENCE	---X---
SEDIMENT CONTROL LOG	=====
PROPERTY LINE	----
SAWCUT LINE (APPROX.)	----
PROPOSED CONTOUR	-----
DRAIN TILE	---
STORM SEWER	---
CATCH BASIN	---
MANHOLE	---
EROSION CONTROL BLANKET (TEMPORARY)	---
DRAINAGE FLOW ARROW	---
RETAINING WALL SPOT ELEVATION	---
SPOT ELEVATION	---
SOIL BORING	---



NOTE:
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5/C500 ON ALL STORM INLETS THAT MAY
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WALKWAY NOTES:
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2. ALL SIDEWALK LONGITUDINAL AND
TRANSVERSE SLOPES ARE TO BE PER
CODE.

NOTE:
REFER TO C200 FOR EROSION CONTROL
NOTES.
REFER TO C200 FOR GRADING NOTES.

KEYED NOTES
KEYED NOTES ARE DENOTED BY [] ON PLAN.
[] INSTALL PERIMETER EROSION CONTROL. REFER TO DETAILS 2/C500 AND 3/C500.
[] INSTALL INLET SEDIMENT PROTECTION. REFER TO DETAILS 4/C500 AND 5/C500.



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I hereby certify that this plan, specification or report was
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Kevin A. Bohl
Date: 11-1-2024 License Number: 52209



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BKBM Project No. 24222 50

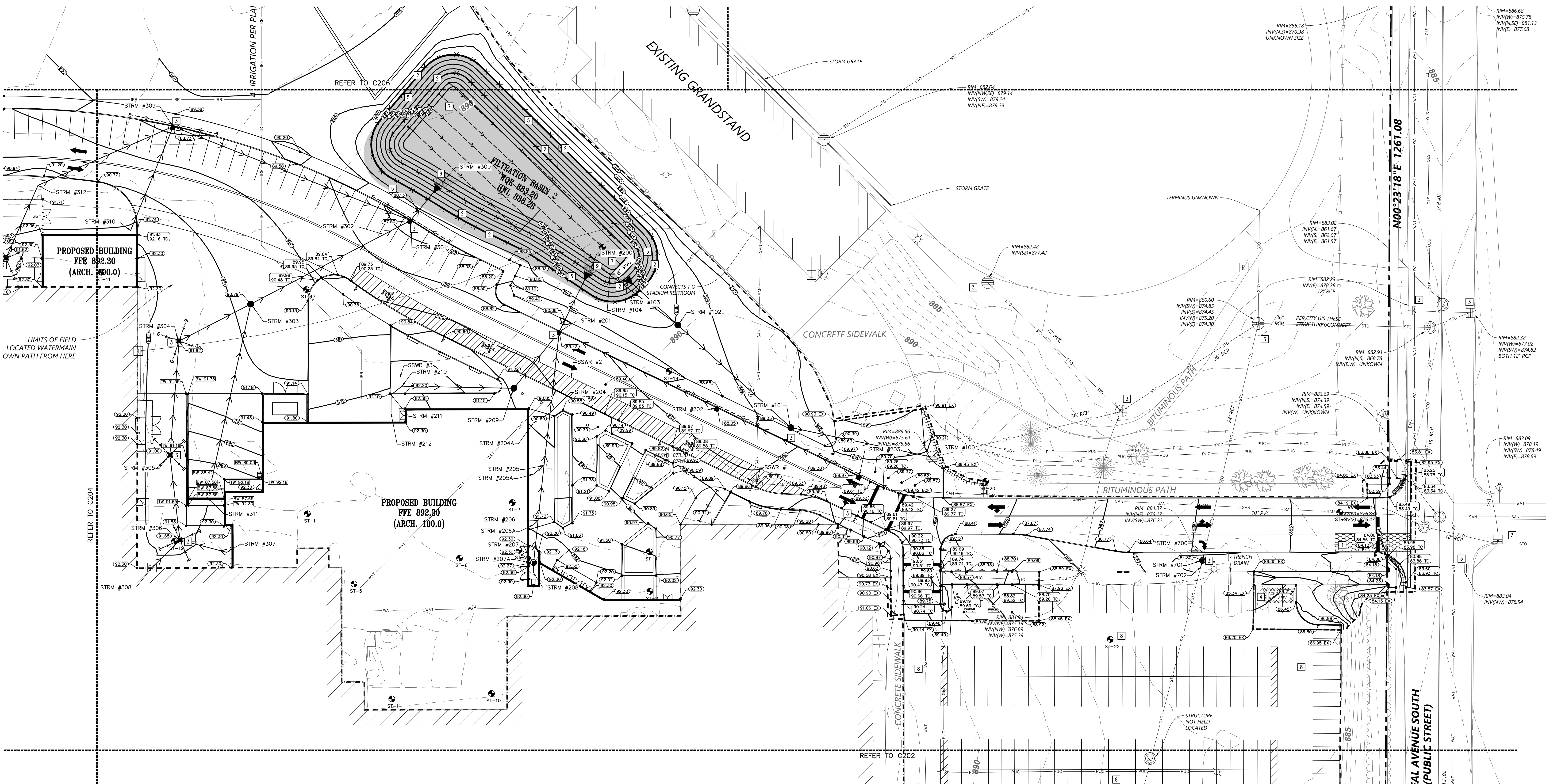
GRADING, DRAINAGE, AND EROSION CONTROL PLAN

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

PROJECT: 23270
DRAWN BY: WH
CHECKED BY: KAB
DATE: 11.1.2024
REVISIONS:

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SET

C204



1 C205 GRADING, DRAINAGE, AND EROSION CONTROL PLAN
1" = 30'

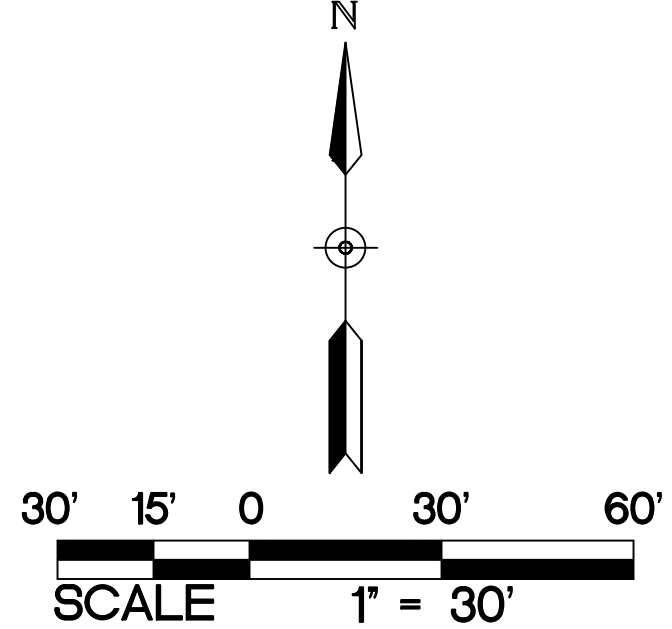
KEYED NOTES

KEYED NOTES ARE DENOTED BY [] ON PLAN.

1. INSTALL CONSTRUCTION ENTRANCE. REFER TO DETAIL 1/C500.
2. INSTALL PERIMETER EROSION CONTROL. REFER TO DETAILS 2/C500 AND 3/C500.
3. INSTALL INLET SEDIMENT PROTECTION. REFER TO DETAILS 4/C500 AND 5/C500.
4. APPROXIMATE LOCATION OF TEMPORARY CONTAINED CONCRETE WASH OUT BIN. REFER TO THE MINNESOTA'S NPDES/SDS GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY FOR MORE DETAILS. SELF-CONTAINED CONCRETE WASHOUTS ON CONCRETE DELIVERY TRUCKS IS AN ACCEPTABLE ALTERNATIVE TO ON-SITE CONTAINMENT.
5. INSTALL MN/DOT 3885 CATEGORY 20 TEMPORARY STRAW FIBER EROSION CONTROL BLANKET.
7. FILTRATION BASIN IS TO BE CONSTRUCTED AT THE END OF GRADING OPERATIONS ONCE THE TRIBUTARY AREA'S FINAL STABILIZATION HAS BEEN INSTALLED. REFER TO DETAIL 6/C501 FOR FILTRATION BASIN CROSS-SECTION. **CONSTRUCTION TRAFFIC IN FILTRATION AREA IS NOT ALLOWED AFTER AREA HAS BEEN EXCAVATED. PRIOR TO FINAL STABILIZATION, LOOSEN SOIL WITH MECHANICAL TILLER. FILTRATION AREA IS NOT APPROVED BORROW SITE AND IS NOT TO BE USED FOR TEMPORARY SEDIMENT BASIN ONCE BASIN SUBGRADE ELEVATION HAS BEEN EXCAVATED. CONTRACTOR SHALL ENSURE THAT BASIN INFILTRATES AT A MINIMUM RATE OF 0.6-INCHES PER HOUR USING A DOUBLE RING INFILTRMETER TEST BEFORE FINAL ACCEPTANCE. DOUBLE RING INFILTRMETER TEST SHALL BE SIGNED BY A REGISTERED GEOTECHNICAL ENGINEER AND SUBMITTED TO THE CITY AND ENGINEER FOR REVIEW BEFORE FINAL APPROVAL.**
8. CONTRACTOR SHALL WATCH EXISTING GRADING CONDITIONS IN RECLAIMED PAVEMENT AREA. PRIOR TO INSTALLATION OF PAVEMENT, CONTRACTOR SHALL VERIFY THAT EXISTING CONDITIONS WILL NOT CREATE ANY PONDING. IF DRAINAGE ISSUES APPEAR TO BE PRESENT, CONTRACTOR SHALL CONTACT CIVIL ENGINEER FOR NEXT STEPS.
9. INSTALL RIPRAP AT FLARED END SECTION TO THE APPROXIMATE EXTENTS SHOWN. INTENT IS FOR RIPRAP TO EXTEND TO THE BOTTOM OF THE BASIN. REFER TO DETAIL 7/C501.

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
SILTATION FENCE	---X---
SEDIMENT CONTROL LOG	
PROPERTY LINE	----
SAWCUT LINE (APPROX.)	----
PROPOSED CONTOUR	---
DRAIN TILE	---
STORM SEWER	---
RETAINING WALL	---
CATCH BASIN	---
MANHOLE	---
FLARED END SECTION	---
EROSION CONTROL BLANKET (TEMPORARY)	---
ROCK CONSTRUCTION ENTRANCE	---
DRAINAGE FLOW ARROW	---
RETAINING WALL SPOT ELEVATION	---
SPOT ELEVATION	---
SOIL BORING	---
CONCRETE WASHOUT AREA	---

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
BS	Bottom of Step
BW	Bottom of Wall
CB	Catch Basin
CONC	Concrete
ELEV	Elevation
EX	Existing
FFE	Finished Floor Elevation
HWL	High Water Level
INV	Invert
LFE	Lower Floor Elevation
MAX	Maximum
MH	Manhole
MIN	Minimum
NWL	Normal Water Level
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
STRM	Storm Sewer Structure
TC	Top of Curb
TS	Top of Step
TW	Top of Wall
W.O.	Washout
WQE	Water Quality Elevation



NOTE:
STORM SEWER INLETS NOT SHOWN ON PLAN MAY RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITIES. INSTALL INLET SEDIMENT PROTECTION PER DETAILS 4/C500 AND 5/C500 ON ALL STORM INLETS THAT MAY RECEIVE RUNOFF.

WALKWAY NOTES:
1. GRADING CONTRACTOR IS TO COORDINATE WITH PAVING CONTRACTOR SO THAT ALL STEPS AND LANDINGS ARE SLOPED PER CODE.
2. ALL SIDEWALK LONGITUDINAL AND TRANSVERSE SLOPES ARE TO BE PER CODE.

NOTE:
REFER TO C200 FOR EROSION CONTROL NOTES.
REFER TO C200 FOR GRADING NOTES.

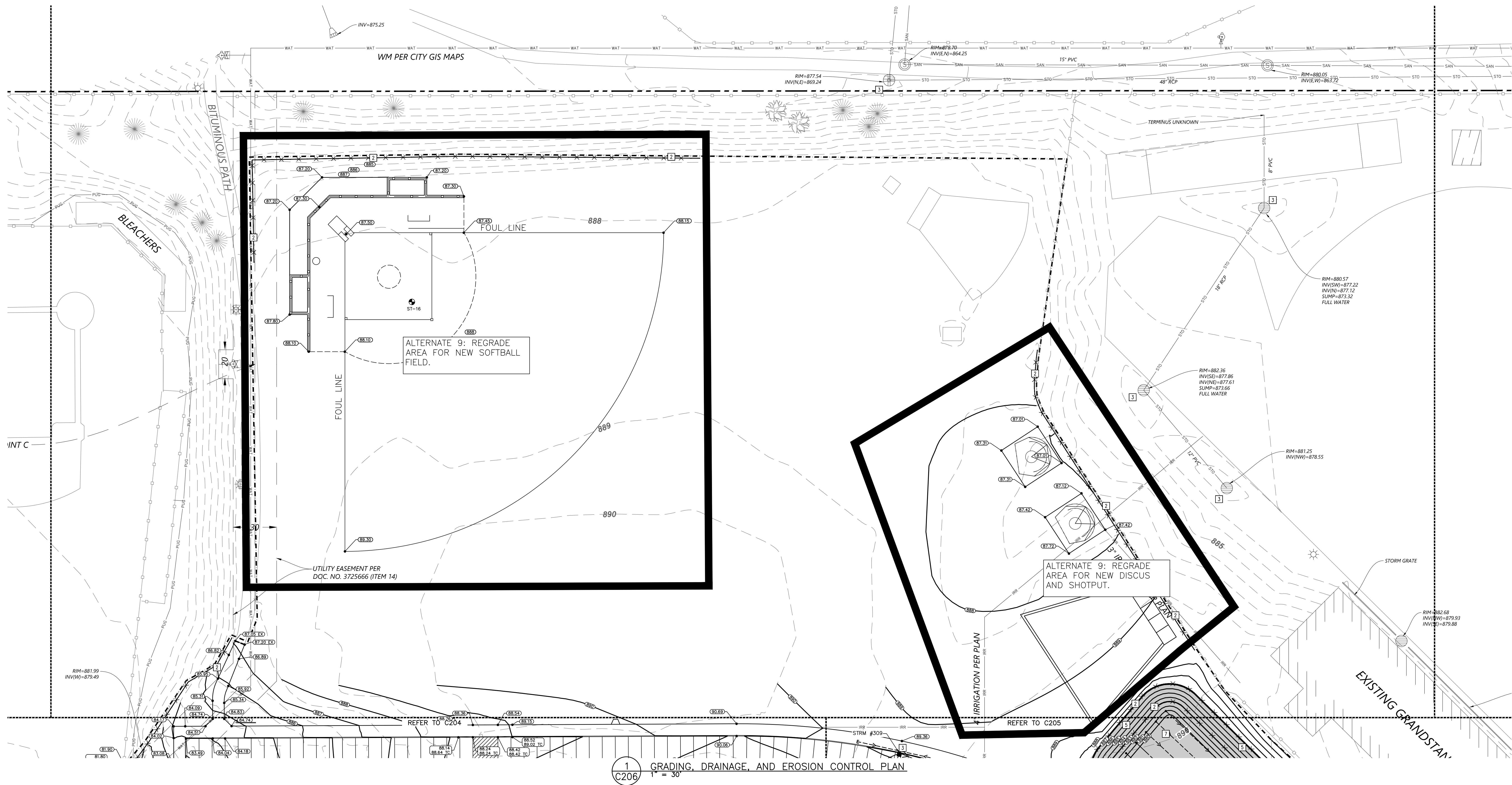
GRADING, DRAINAGE, AND EROSION CONTROL PLAN

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

PROJECT: 23270
DRAWN BY: WH
CHECKED BY: KAB
DATE: 11.1.2024
REVISIONS:

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SET

C205



KEYED NOTES

KEYED NOTES ARE DENOTED BY [] ON PLAN.

[2] INSTALL PERIMETER EROSION CONTROL. REFER TO DETAILS 2/C500 AND 3/C500.

[3] INSTALL INLET SEDIMENT PROTECTION. REFER TO DETAILS 4/C500 AND 5/C500.

[5] INSTALL MN/DOT 3885 CATEGORY 20 TEMPORARY STRAW FIBER EROSION CONTROL BLANKET.

[7] INFILTRATION BASIN(S) AND WATER QUALITY TREATMENT POND(S) ARE TO BE CONSTRUCTED AT THE END OF GRADING OPERATIONS ONCE THE TRIBUTARY AREA'S FINAL STABILIZATION HAS BEEN INSTALLED. REFER TO DETAIL 6/C501 FOR INFILTRATION BASIN(S) CROSS SECTION. CONSTRUCTION TRAFFIC IN INFILTRATION AREA(S) IS NOT ALLOWED AFTER AREA HAS BEEN EXCAVATED. PRIOR TO FINAL STABILIZATION, LOOSEN SOIL WITH MECHANICAL TILLER. INFILTRATION AREA(S) ARE NOT APPROVED BORROW SITES AND ARE NOT TO BE USED FOR TEMPORARY SEDIMENT BASIN(S) ONCE BASIN(S) SUBGRADE ELEVATION HAS BEEN EXCAVATED. CONTRACTOR SHALL ENSURE THAT BASIN(S) INFILTRATE AT A MINIMUM RATE OF 0.8-INCHES PER HOUR USING A DOUBLE RING INFILTRMETER TEST BEFORE FINAL ACCEPTANCE. DOUBLE RING INFILTRMETER TEST SHALL BE SIGNED BY A REGISTERED GEOTECHNICAL ENGINEER AND SUBMITTED TO THE CITY AND ENGINEER FOR REVIEW BEFORE FINAL APPROVAL.

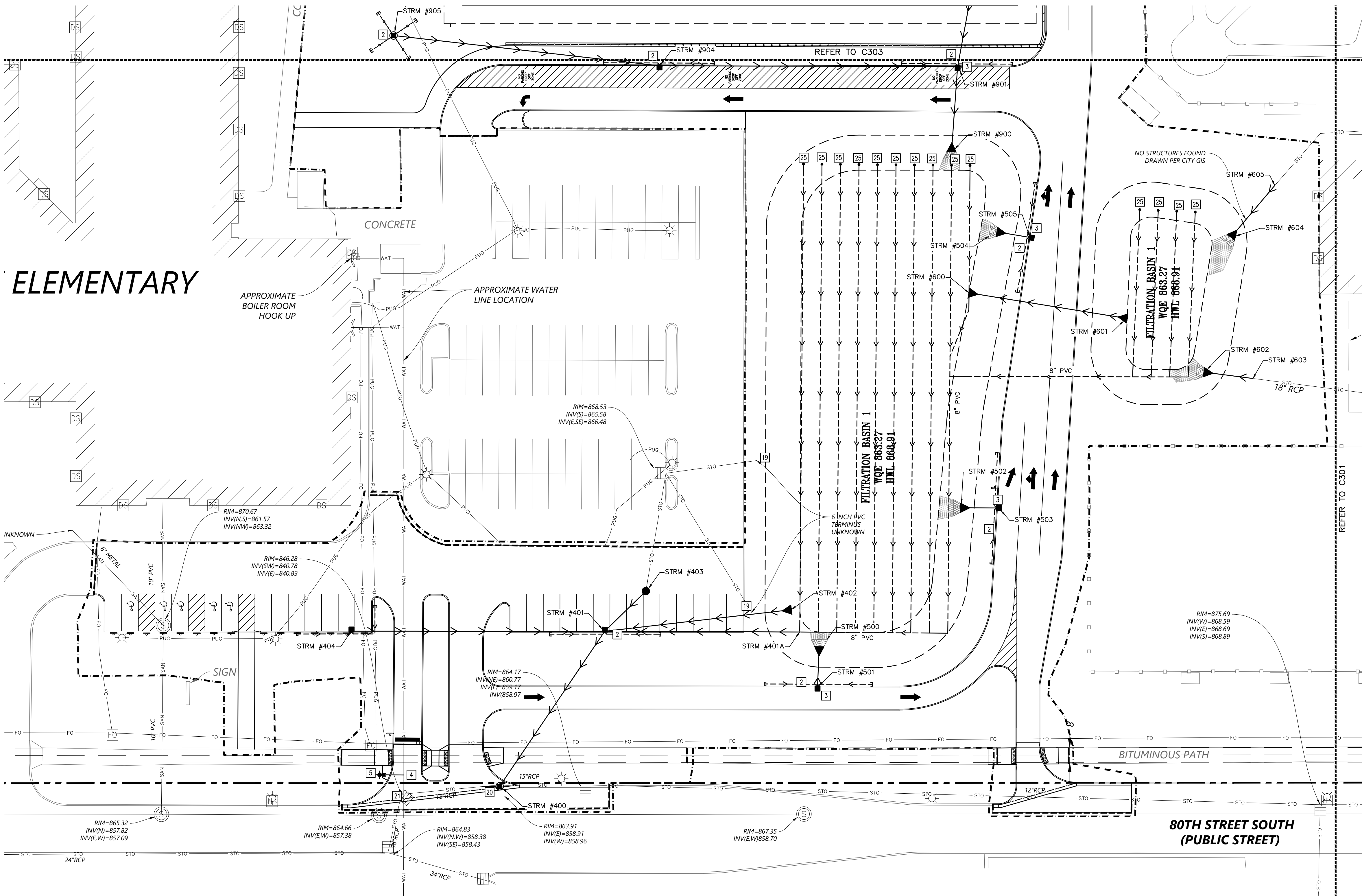
ABBREVIATIONS	
BLDG	Building
BM	Benchmark
BS	Bottom of Step
BW	Bottom of Wall
CB	Catch Basin
CONC	Concrete
ELEV	Elevation
EX	Existing
FFE	Finished Floor Elevation
HWL	High Water Level
INV	Invert
LFE	Lower Floor Elevation
MAX	Maximum
MI	Manhole
MIN	Minimum
NWL	Normal Water Level
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
STRM	Storm Sewer Structure
TC	Top of Curb
TS	Top of Step
TW	Top of Wall
W.O.	Washout
WQE	Water Quality Elevation

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
SILTATION FENCE	---X---
SEDIMENT CONTROL LOG	=====
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
PROPOSED CONTOUR	---
DRAIN TILE	---
STORM SEWER	---
CATCH BASIN	---
MANHOLE	---
EROSION CONTROL BLANKET (TEMPORARY)	---
DRAINAGE FLOW ARROW	---
SPOT ELEVATION	---
SOIL BORING	---

NOTE:
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WALKWAY NOTES:
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NOTE:
REFER TO C200 FOR EROSION CONTROL
NOTES.
REFER TO C200 FOR GRADING NOTES.



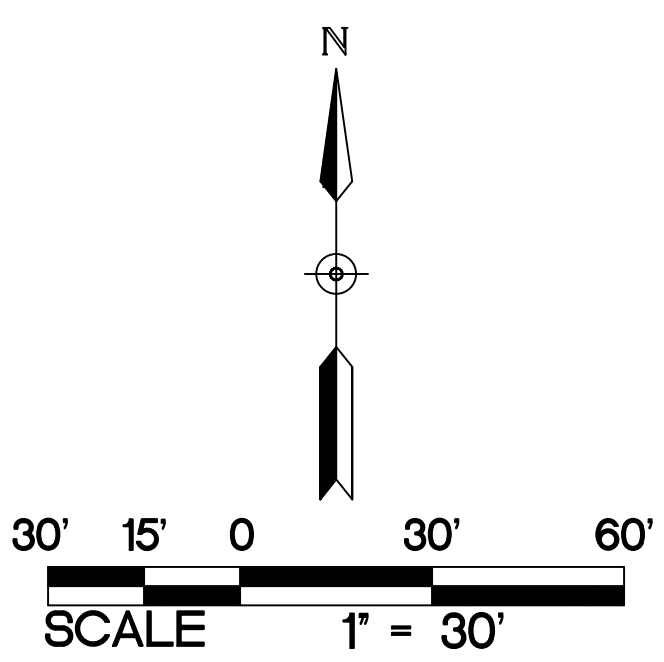
1 UTILITY PLAN
C300 1" = 30'

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
WATER PIPE	---
DRAIN TILE	---
STORM SEWER	---
FIRE HYDRANT	---
GATE VALVE	---
CATCH BASIN	---
MANHOLE	---
FLARED END SECTION	---
FLARED END SECTION WITH RIPRAP	---

NOTE: WHERE PROPOSED GRADE OVER EXISTING SMALL UTILITIES IS PROPOSED TO BE LOWERED, CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER FOR THE LOWERING OF THE EXISTING UTILITY TO PROVIDE THE MINIMUM COVER REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CB	Catch Basin
CONC	Concrete
DIP	Ductile Iron Pipe
ELEV	Elevation
EX	Existing
FO	Fiber Optic
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PUG	Underground Power
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
WQE	Water Quality Elevation

NOTE: PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL POOTHOLE AND DETERMINE THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES. CONTACT CIVIL ENGINEER IF EXISTING UTILITIES TO REMAIN WILL BE IMPACTED BY PROPOSED WORK.



UTILITY NOTES FOR WORK IN PUBLIC RIGHT-OF-WAY:

1. FOLLOW ALL CITY OF COTTAGE GROVE STANDARDS AND SPECIFICATIONS.
2. PRIOR TO CONSTRUCTION, CONTRACTORS ARE TO COORDINATE ALL WORK WITHIN RIGHT-OF-WAY AND OBTAIN ALL APPLICABLE PERMITS.

UTILITY NOTES:

1. CONTRACTOR SHALL FOLLOW ALL CITY OF COTTAGE GROVE STANDARDS AND SPECIFICATIONS.
2. COORDINATE SERVICE CONNECTION LOCATIONS AND SIZES AT THE BUILDING WITH THE MECHANICAL CONTRACTOR PRIOR TO CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR UNCOORDINATED WORK.
3. COORDINATE UTILITY INSTALLATION WITH STRUCTURAL PRIOR TO START OF CONSTRUCTION. UTILITIES SHALL NOT BE INSTALLED WITHIN THE ZONE OF INFLUENCE OF ANY STRUCTURAL ELEMENTS. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR UNCOORDINATED WORK.
4. ALL SEWER SERVICE CONNECTIONS WITH LESS THAN 5 FEET OF COVER OVER THE TOP OF PIPE SHALL BE INSULATED. INSULATION SHALL BE INSTALLED FROM THE CONNECTION OF THE SERVICE AT THE BUILDING TO THE POINT WHICH THE SERVICE ATTAINS 5 FEET OF COVER. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM ARCHITECT OR ENGINEER PRIOR TO INSTALLATION OF INSULATION.
5. PROTECT ALL EXISTING STRUCTURES AND UTILITIES WHICH ARE NOT SCHEDULED TO BE REMOVED.
6. ALL SEWER AND WATER CROSSINGS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 1.5 FEET AND HORIZONTAL SEPARATION OF 10 FEET. FOLLOW ALL HEALTH DEPARTMENT AND CITY OF COTTAGE GROVE STANDARDS.
7. ALL WATER MAINS SHALL BE DUCTILE IRON PIPE, CLASS 52, UNLESS NOTED OTHERWISE.
8. ALL WATER MAIN SHALL HAVE A MINIMUM DEPTH OF COVER OF 7.5 FEET OVER TOP OF WATER MAIN.
9. PROVIDE THRUST BLOCKING ON ALL WATER MAIN PER CITY OF COTTAGE GROVE. PROVIDE MECHANICAL JOINT RESTRAINTS ON ALL BENDS, VALVES, TEES, PLUGS, AND HYDRANT LEADS.
10. SANITARY SEWER PIPING SHALL BE SDR 35 PVC UNLESS NOTED OTHERWISE.
11. STORM SEWER PIPING SHALL BE REINFORCED CONCRETE PIPE (RCP), UNLESS NOTED OTHERWISE. ALL 12-INCH THROUGH 18-INCH RCP STORM SEWER PIPE SHALL BE CLASS 5. RCP PIPE LARGER THAN 18-INCH SHALL BE CLASS 3 UNLESS NOTED OTHERWISE. ALL STORM SEWER PIPE THAT IS EXTENDED TO THE BUILDING FOR ROOF DRAIN SERVICES SHALL BE ASTM D1785 OR ASTM D2665 SCHEDULE 40 PVC.
12. ALL FLARED END SECTIONS SHALL HAVE TRASH GUARDS. ALL DOWNSTREAM FLARED END SECTIONS SHALL HAVE GEOTEXTILE FABRIC AND RIPRAP PER MNDOT STANDARDS, AS DETAILED.
13. CONTRACTOR SHALL COORDINATE ALL WORK WITH GAS, ELECTRIC, TELEVISION, AND TELEPHONE COMPANIES PRIOR TO START OF CONSTRUCTION.
14. WHERE PROPOSED GRADE OVER EXISTING SMALL UTILITIES IS PROPOSED TO BE LOWERED, CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER FOR THE LOWERING OF THE EXISTING UTILITY TO PROVIDE THE MINIMUM COVER REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
15. ALL PORTIONS OF THE STORM SEWER SYSTEM LOCATED WITHIN 10-FEET OF THE BUILDING OR WATER SERVICE LINE SHALL BE TESTED IN ACCORDANCE WITH MN PLUMBING CODE. PIPING MATERIAL SHALL BE SCHEDULE 40 PVC.
16. ALL JOINTS AND CONNECTIONS IN THE STORM SEWER SYSTEM SHALL BE GAS TIGHT OR WATER TIGHT IN ACCORDANCE TO MN PLUMBING CODE. APPROVED RESILIENT RUBBER JOINTS MUST BE USED TO MAKE WATER TIGHT CONNECTIONS TO MANHOLES, CATCH BASINS, AND OTHER STRUCTURES. RESILIENT WATER-STOP GROUTING RINGS ARE AN ACCEPTABLE ALTERNATIVE. CEMENT MORTAR JOINTS ARE PERMITTED ONLY FOR REPAIRS AND CONNECTIONS OF EXISTING LINES CONSTRUCTED WITH SUCH JOINTS.

KEYED NOTES

KEYED NOTES ARE DENOTED BY [] ON PLAN.

- [2] INSTALL DRAIN TILE AT LOW POINT CATCH BASINS. REFER TO DETAIL 9/C501.
- [3] INSTALL SUMP CATCH BASIN WITH SNUOT, ENVIROHOOD, OR APPROVED EQUAL. REFER TO DETAIL 2/C501.
- [4] INSTALL 6-INCH WET TAP.
- [5] INSTALL FIRE HYDRANT AND GATE VALVE. REFER TO DETAIL 8/C500.
- [10] EXISTING PIPE EXTENTS NOT IDENTIFIED ON SURVEY. IF PIPE IS ENCOUNTERED DURING EXCAVATION FOR PROPOSED POND, CONTACT CIVIL ENGINEER TO DISCUSS NEXT STEPS.
- [20] CONTRACTOR SHALL INSTALL MANHOLE IN LINE WITH EXISTING 18-INCH RCP PIPE TO THE WEST AND EXISTING 15-INCH RCP PIPE TO THE EAST. REFER TO STORM SEWER TABLE FOR APPROXIMATE INVERTS OF EXISTING PIPES AND FOR PROPOSED MANHOLE INFORMATION.
- [21] INSTALL NEW TOP SLAB AND NEENAH R-1733 CASTING ON EXISTING STORM STRUCTURE. REFER TO C2.000 FOR RIM ELEVATION.
- [22] INSTALL DRAIN TILE CLEAN OUT. TOP OF CLEAN OUT SHALL BE INSTALLED AT 2-FEET ABOVE FINISHED GRADE. REFER TO DETAIL 15/C502.

STORM SEWER TABLE					
STRUCTURE ID	STRUCTURE DIMENSION (INCHES)	NEENAH CASTING TYPE	RIM ELEVATION	INVERT ELEVATION(S)	PIPE LENGTH, DIAMETER, SLOPE & NEXT UPSTREAM STRUCTURE
STRM #400	72" CB MH	R-2390	864.52	W = 858.96 E = 859.46 NE = 859.00	101 L.F. OF 12" RCP @ 0.50%, STRM #401
STRM #401	72" CB MH	R-3067	867.89	SW = 859.51 E = 861.75 NE = 864.68 W = 864.46 E = 859.59	102 L.F. OF 12" RCP @ 1.50%, STRM #402 31 L.F. OF 12" RCP @ 1.00%, STRM #403 137 L.F. OF 12" RCP @ 1.05%, STRM #404 105 L.F. OF DRAIN TILE CONNECTION @ 0.58%, STRM #401A
STRM #401A	DRAIN TILE CONNECTION	NA		W = 860.20	
STRM #402	12" FES	NA		W = 863.27	
STRM #403	48" MH	R-1733	868.54	SW = 864.89 N = 864.99	
STRM #404	24"x36" CB	R-3067	869.26	E = 865.90	
STRM #500	12" FES	NA		S = 864.33	22 L.F. OF 12" RCP @ 0.77%, STRM #501
STRM #501	48" SUMP CB MH	R-3067	868.51	N = 864.50	
STRM #502	12" FES	NA		E = 864.85	
STRM #503	48" SUMP CB MH	R-3067	869.81	W = 865.00	20 L.F. OF 12" RCP @ -0.77%, STRM #502
STRM #504	12" FES	NA		E = 864.85	18 L.F. OF 12" RCP @ 0.85%, STRM #505
STRM #505	48" SUMP CB MH	R-3067	868.50	W = 865.00	
STRM #600	12" FES	NA		E = 861.00	87 L.F. OF 12" RCP @ 0.00%, STRM #601
STRM #601	12" FES	NA		W = 861.00	
STRM #602	18" FES	NA		E = 864.99	27 L.F. OF 18" RCP @ 1.38%, STRM #603
STRM #603	EX PIPE CONNECTION	NA		W = 865.36	
STRM #604	12" FES	NA		NE = 865.23	37 L.F. OF 12" RCP @ 1.00%, STRM #605
STRM #605	EX PIPE CONNECTION	NA		SW = 865.60	
STRM #900	24" FES	NA		N = 865.00	46 L.F. OF 24" RCP @ 0.59%, STRM #901
STRM #901	48" SUMP CB MH	R-3067	869.97	S = 865.27 N = 865.90 W = 865.65	285 L.F. OF 18" RCP @ 1.74%, STRM #902 161 L.F. OF 12" RCP @ 0.78%, STRM #904



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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 MN.

Kevin A. Bohl
Date: 11-1-2024 License Number: 52209

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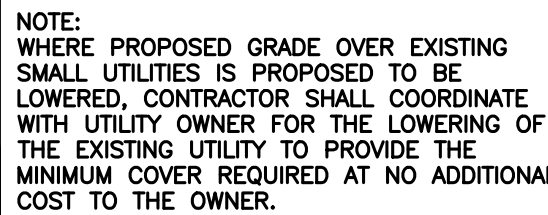
UTILITY PLAN

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

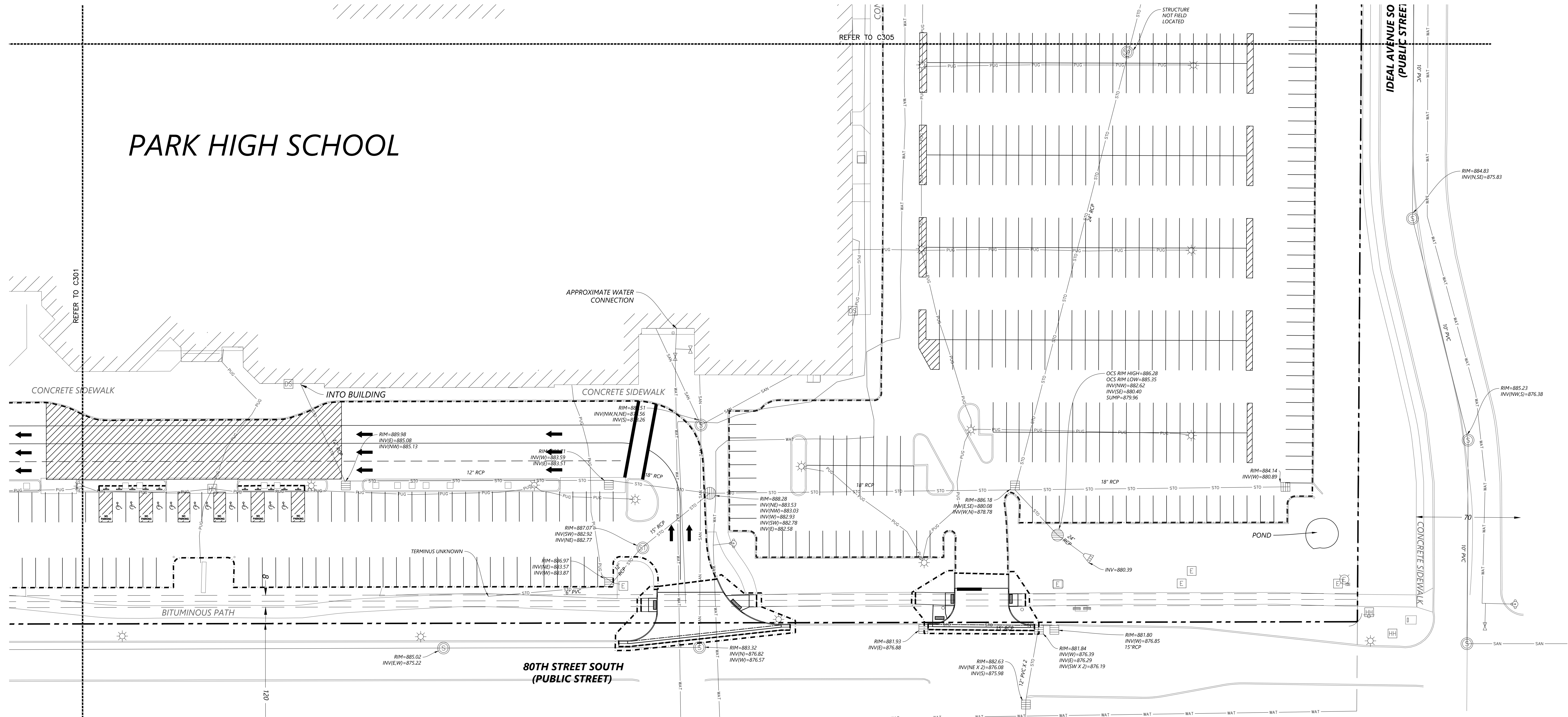
PROJECT: 23270
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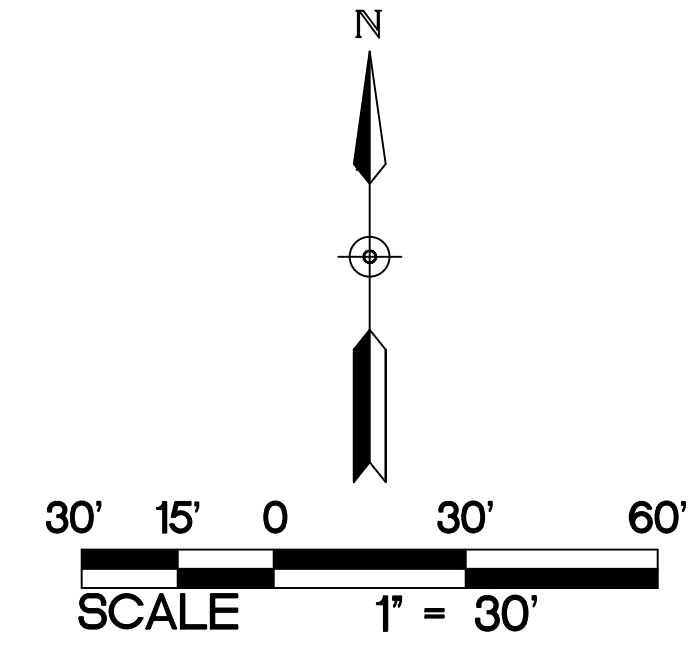
PARK HIGH SCHOOL



1 C302 UTILITY PLAN
1" = 30'

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CB	Catch Basin
CONC	Concrete
DIP	Ductile Iron Pipe
DS	Downspout
E	Electric
ELEV	Elevation
EX	Existing
FO	Fiber Optic
HH	Hand Hole
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PUG	Underground Power
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
PROPERTY LINE	---
SAW CUT LINE (APPROX.)	---



- UTILITY NOTES FOR WORK IN PUBLIC RIGHT-OF-WAY:
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 - PRIOR TO CONSTRUCTION, CONTRACTORS ARE TO COORDINATE ALL WORK WITHIN RIGHT-OF-WAY AND OBTAIN ALL APPLICABLE PERMITS.

NOTE: WHERE PROPOSED GRADE OVER EXISTING SMALL UTILITIES IS PROPOSED TO BE LOWERED, CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER FOR THE LOWERING OF THE EXISTING UTILITY TO PROVIDE THE MINIMUM COVER REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

NOTE: PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL POT-HOLE AND DETERMINE THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES. CONTACT CIVIL ENGINEER IF EXISTING UTILITIES TO REMAIN WILL BE IMPACTED BY PROPOSED WORK.

NOTE: REFER TO C300 FOR UTILITY NOTES.

UTILITY PLAN

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

PROJECT: 23270
DRAWN BY: WH
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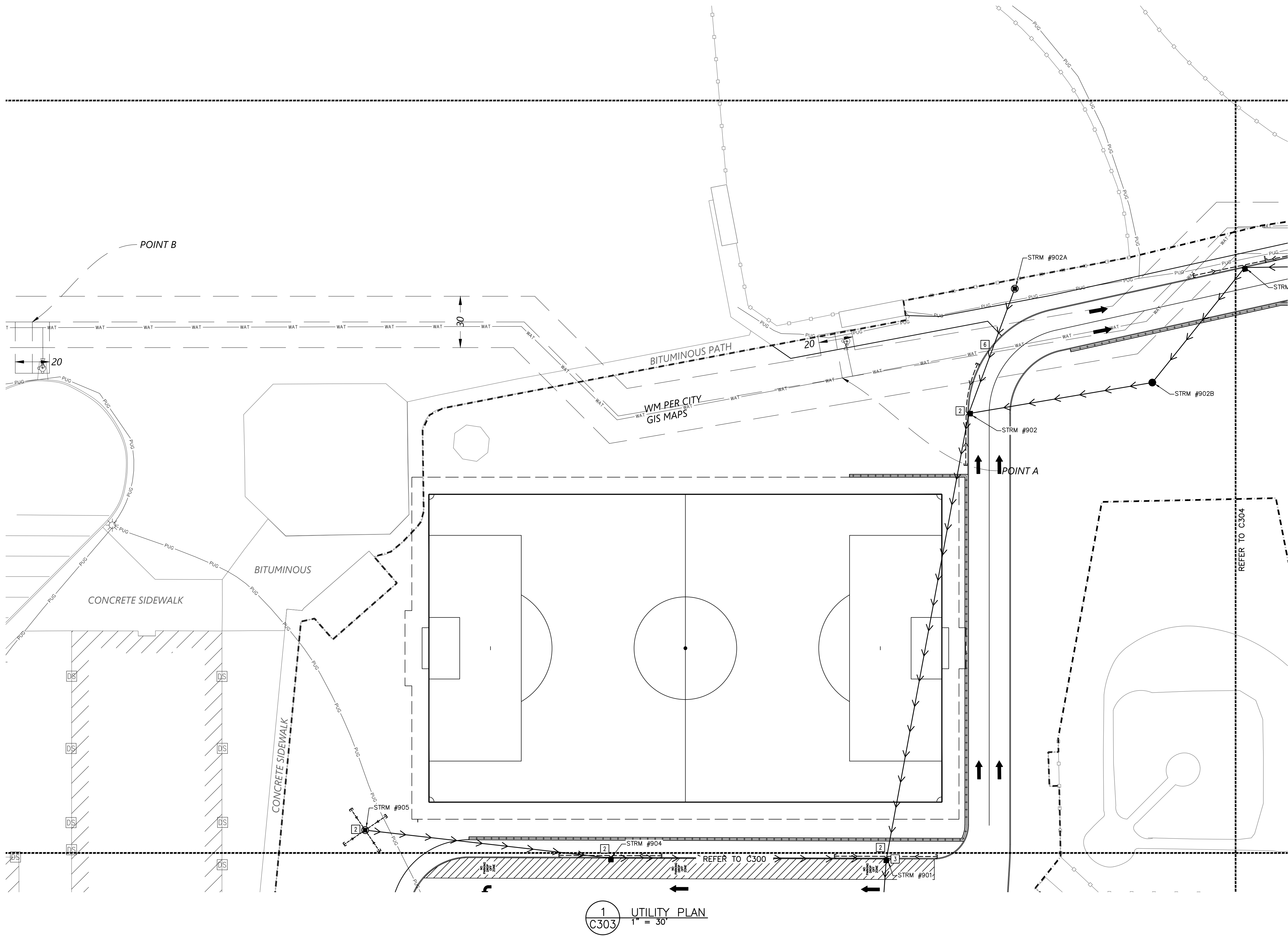
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MN.

Kevin A. Bohl
Date: 11-1-2024 License Number: 52209

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ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CB	Catch Basin
CONC	Concrete
DIP	Ductile Iron Pipe
DS	Downspout
ELEV	Elevation
EX	Existing
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PUG	Underground Power
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
DRAIN TILE	---
STORM SEWER	---
CATCH BASIN	■

NOTE:
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NOTE:
REFER TO C300 FOR UTILITY NOTES.

KEYED NOTES

KEYED NOTES ARE DENOTED BY [] ON PLAN.

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STORM SEWER TABLE					
STRUCTURE ID	STRUCTURE DIMENSION (INCHES)	NEENAH CASTING TYPE	RIM ELEVATION	INVERT ELEVATION(S)	PIPE LENGTH, DIAMETER, SLOPE & NEXT UPSTREAM STRUCTURE
STRM #902	48" CB MH	R-3067	874.10	S = 870.51 E = 871.85 N = 871.21	109 L.F. OF 15" RCP @ 3.12%, STRM #902B 78 L.F. OF 10" PVC @ 0.93%, STRM #902A
STRM #902A	27" CB	R-2390	874.35	S = 871.94	-----
STRM #902B	48" MH	R-1733	877.24	W = 875.25 NE = 875.25	86 L.F. OF 15" RCP @ 3.19%, STRM #903
STRM #905	27" CB	R-2390	870.60	E = 867.33	-----

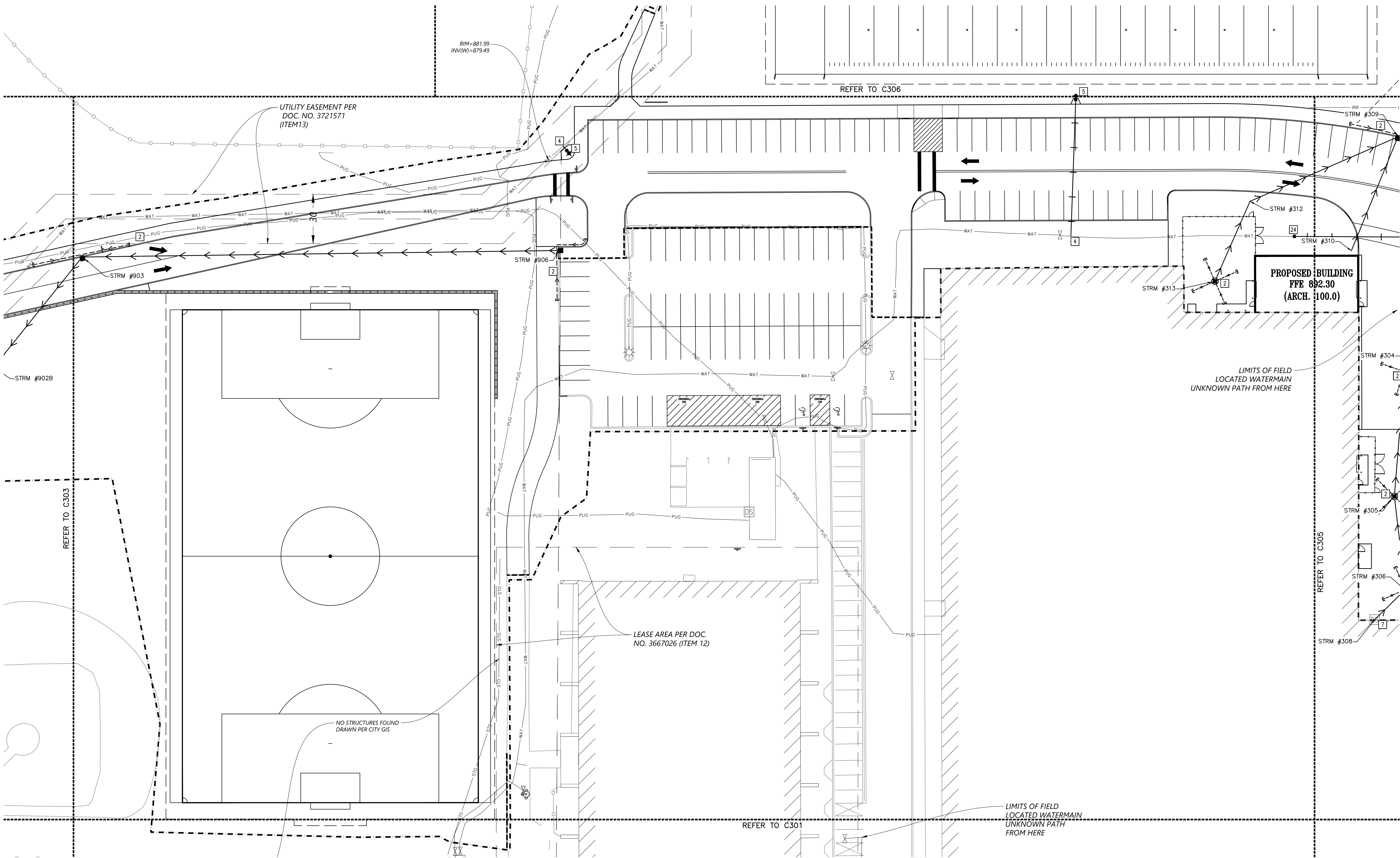
UTILITY PLAN

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

PROJECT: 23270
DRAWN BY: WH
CHECKED BY: KAB
DATE: 11.1.2024
REVISIONS:

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C303



ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CB	Catch Basin
CONC	Concrete
DIP	Ductile Iron Pipe
DS	Downspout
ELEV	Elevation
EX	Existing
FO	Fiber Optic
HH	Hand Hole
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PUG	Underground Power
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
WATER PIPE	---
DRAIN TILE	---
STORM SEWER	---
FIRE HYDRANT	---
GATE VALVE	---
CATCH BASIN	---

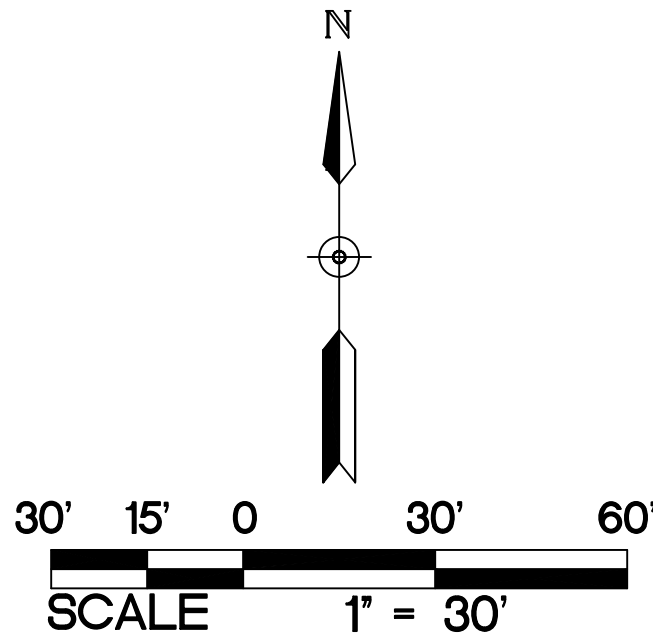
*NOTE: CONSTRUCTION LIMITS ARE ANTICIPATED TO BE PROPERTY LINE UNLESS OTHERWISE SHOWN.

NOTE: PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL POT-HOLE AND DETERMINE THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES. CONTACT CIVIL ENGINEER IF EXISTING UTILITIES TO REMAIN WILL BE IMPACTED BY PROPOSED WORK.

KEYED NOTES

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- INSTALL 6-INCH WET TAP.
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- PROVIDE PIPE CONNECTION TO EXISTING DOWNSPOUT. REFER TO DETAIL 10/C501. REFER TO STORM SEWER TABLE FOR INVERT ELEVATIONS AND PIPE SIZES. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO THE START OF CONSTRUCTION.



UTILITY NOTES FOR WORK IN PUBLIC RIGHT-OF-WAY:

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NOTE: REFER TO C300 FOR UTILITY NOTES.

1 C304 UTILITY PLAN 1" = 30'

STORM SEWER TABLE					
STRUCTURE ID	STRUCTURE DIMENSION (INCHES)	NEENAH CASTING TYPE	RIM ELEVATION	INVERT ELEVATION(S)	PIPE LENGTH, DIAMETER, SLOPE & NEXT UPSTREAM STRUCTURE
STRM #312	10-INCH PVC 45 DEGREE BEND	NA		NE = 887.19 SW = 887.19	53 L.F. OF 10" PVC @ 1.72%, STRM #313
STRM #313	27" CB	R-2390	891.62	NE = 888.10	
STRM #903	48" CB MH	R-3067	879.94	SW = 878.00 E = 878.00	290 L.F. OF 12" RCP @ 0.34%, STRM #906
STRM #906	24"x36" CB	R-3067	882.39	W = 879.00	



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 MN.

Kevin A. Bohl License Number: 52209



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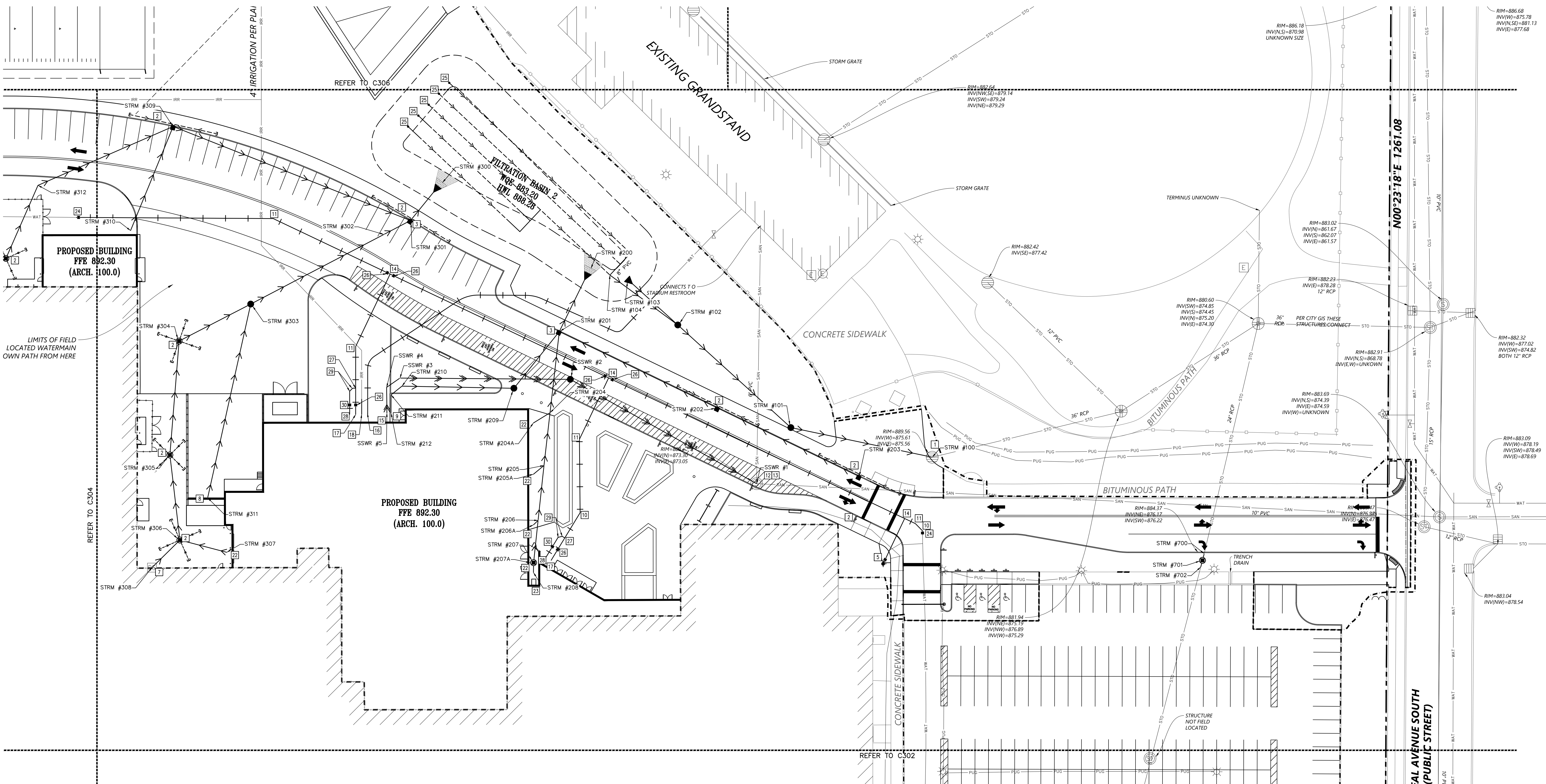
UTILITY PLAN

PARK HIGH SCHOOL ADDITIONS & RENOVATIONS 8040 80TH STREET SOUTH COTTAGE GROVE, MN 55016

PROJECT:	23270
DRAWN BY:	WH
CHECKED BY:	KAB
DATE:	11.1.2024
REVISIONS:	

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C304



1 C305 UTILITY PLAN
1" = 30'

STORM SEWER TABLE					
STRUCTURE ID	STRUCTURE DIMENSION (INCHES)	NEENAH CASTING TYPE	RIM ELEVATION	INVERT ELEVATION(S)	PIPE LENGTH, DIAMETER, SLOPE & NEXT UPSTREAM STRUCTURE
STRM #100	EX. MH	EX.	889.80	W = 876.02	96 L.F. OF 18" RCP @ 1.00%, STRM #101
STRM #101	60" MH	R-1733	889.35	E = 876.98 NW = 876.98	102 L.F. OF 18" RCP @ 1.00%, STRM #102
STRM #102	48" MH	R-1733	888.07	SE = 878.00 SW = 862.74 NW = 878.22	46 L.F. OF 18" RCP @ 1.00%, STRM #103 56 L.F. OF 8" PVC @ 0.50%, STRM #104
STRM #103	18" FES	NA		SE = 883.20	-----
STRM #104	DRAIN TILE CONNECTION	NA		SE = 878.50	-----
STRM #200	12" FES	NA		SW = 883.25	43 L.F. OF 12" PVC @ 0.63%, STRM #201
STRM #201	48" SUMP CB MH	R-3067	889.43	NE = 883.52 SE = 883.52 S = 883.80 SW = 885.01	117 L.F. OF 12" RCP @ 0.95%, STRM #202 54 L.F. OF 10" PVC @ 1.13%, STRM #204 48 L.F. OF 10" PVC @ 1.10%, STRM #209
STRM #202	48" CB MH	R-3067	888.05	NW = 884.63 SE = 884.63	105 L.F. OF 12" RCP @ 0.35%, STRM #203
STRM #203	48" CB MH	R-3067	888.97	NW = 885.00	-----
STRM #204	10-INCH X 10-INCH PVC WYE	NA		N = 884.42 S = 884.42	35 L.F. OF 10" PVC @ 1.13%, STRM #205 13 L.F. OF 10" PVC @ 1.10%, STRM #204A
STRM #204A	DOWNSPOUT CONNECTION	NDS DURACAST IN-LINE GRATE	890.78	NE = 884.56	-----
STRM #205	10-INCH X 10-INCH PVC WYE	NA		N = 884.82 S = 884.82 SW = 884.82	37 L.F. OF 10" PVC @ 1.13%, STRM #206 9 L.F. OF 10" PVC @ 1.10%, STRM #205A
STRM #205A	DOWNSPOUT CONNECTION	NDS DURACAST IN-LINE GRATE	891.27	NE = 884.92	-----
STRM #207	YARD DRAIN	NDS DURACAST IN-LINE GRATE	892.13	N = 885.55 S = 885.55 W = 885.81	7 L.F. OF 10" PVC @ 1.13%, STRM #208 2 L.F. OF 10" PVC @ 1.10%, STRM #207A
STRM #208	DOWNSPOUT CONNECTION	NDS DURACAST IN-LINE GRATE	892.10	N = 885.63	-----
STRM #209	48" MH	R-1733	890.92	NE = 885.54 W = 885.54	75 L.F. OF 10" PVC @ 1.10%, STRM #210
STRM #210	10-INCH PVC 45 DEGREE BEND	NA		E = 886.35 SW = 886.36	9 L.F. OF 10" PVC @ 1.10%, STRM #211
STRM #211	10-INCH PVC 45 DEGREE BEND	NA		NE = 886.47 S = 886.47	12 L.F. OF 10" PVC @ 1.10%, STRM #212
STRM #212	PRIMARY DRAIN CONNECTION	NA		N = 886.60	-----
STRM #300	15" FES	NA		SW = 883.25	29 L.F. OF 15" RCP @ 1.21%, STRM #301

STORM SEWER TABLE					
STRUCTURE ID	STRUCTURE DIMENSION (INCHES)	NEENAH CASTING TYPE	RIM ELEVATION	INVERT ELEVATION(S)	PIPE LENGTH, DIAMETER, SLOPE & NEXT UPSTREAM STRUCTURE
STRM #301	48" SUMP CB MH	R-3067	887.50	NE = 883.80 SW = 883.60 W = 884.00	20 L.F. OF 10" PVC @ 1.00%, STRM #302 170 L.F. OF 12" RCP @ 0.70%, STRM #309
STRM #302	10-INCH X 10-INCH PVC WYE	NA		NE = 883.80 SW = 883.80	100 L.F. OF 10" PVC @ 1.00%, STRM #303
STRM #303	48" MH	R-1733	890.79	NE = 884.80 SW = 884.80 S = 884.80	54 L.F. OF 10" PVC @ 1.00%, STRM #304 132 L.F. OF 10" PVC @ 0.52%, STRM #311
STRM #304	48" CB MH	R-2390	891.62	NE = 885.34 S = 885.34	76 L.F. OF 10" PVC @ 1.00%, STRM #305
STRM #305	48" CB MH	R-2390	891.00	N = 885.10 S = 885.10	57 L.F. OF 10" PVC @ 1.00%, STRM #306
STRM #306	48" CB MH	R-2390	891.65	N = 886.67 SW = 886.70 E = 886.70	26 L.F. OF 12" PVC @ 1.10%, STRM #308 32 L.F. OF 8" PVC @ 1.10%, STRM #307
STRM #307	DOWNSPOUT CONNECTION	NA		W = 887.05	-----
STRM #308	DOWNSPOUT CONNECTION	NDS DURACAST IN-LINE GRATE	892.11	NE = 886.98	-----
STRM #309	60" CB MH	R-3067	888.73	E = 885.19 S = 885.50 SW = 885.50	75 L.F. OF 8" PVC @ 1.10%, STRM #310 98 L.F. OF 10" PVC @ 1.72%, STRM #312
STRM #310	DOWNSPOUT CONNECTION	NA		N = 886.32	-----
STRM #311	TRENCH DRAIN CONNECTION	NA		N = 885.49	-----

SANITARY SEWER TABLE					
STRUCTURE ID	STRUCTURE DIMENSION (INCHES)	NEENAH CASTING TYPE	RIM ELEVATION	INVERT ELEVATION(S)	PIPE LENGTH, DIAMETER, SLOPE & NEXT UPSTREAM STRUCTURE
SSWR #1	EX. MH	NA		NW = 884.34	142 L.F. OF 8" PVC @ 0.85%, SSWR #2
SSWR #2	48" MH	R-1733	889.74	SE = 885.54 W = 885.64	113 L.F. OF 8" PVC @ 1.94%, SSWR #3
SSWR #3	6-INCH PVC 45 DEGREE BEND	NA		E = 887.83 SW = 887.83	-----
SSWR #4	6-INCH PVC 45 DEGREE BEND	NA		NE = 888.11 S = 888.22	17 L.F. OF 8" PVC @ 1.62%, SSWR #5
SSWR #5	SANITARY SERVICE CONNECTION	NA		N = 888.49	-----

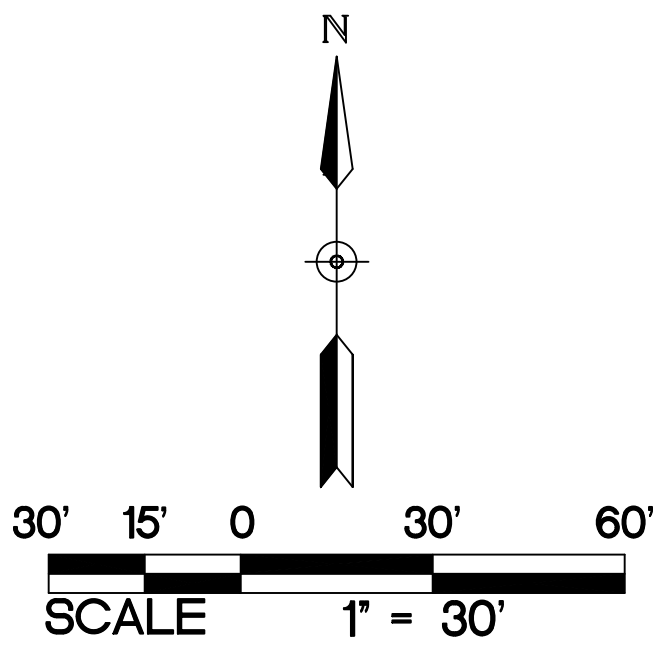
KEYED NOTES

KEYED NOTES ARE DENOTED BY [] ON PLAN.

- CORE DRILL EXISTING MANHOLE FOR PROPOSED PIPE CONNECTION. PROVIDE WATER TIGHT SEAL WITH FLEXIBLE COMPRESSION JOINT. CEMENT MORTAR JOINTS ARE PERMITTED ONLY FOR REPAIRS AND CONNECTIONS OF EXISTING LINES CONSTRUCTED WITH SUCH JOINTS.
- INSTALL DRAIN TILE AT LOW POINT CATCH BASINS. REFER TO DETAIL 9/C501.
- INSTALL SUMP CATCH BASIN WITH SNOUT, ENVIROHOOD, OR APPROVED EQUAL. REFER TO DETAIL 2/C501.
- INSTALL FIRE HYDRANT AND GATE VALVE. REFER TO DETAIL 8/C500.
- CONTRACTOR SHALL POT HOLE TO DETERMINE EXISTING WATER MAIN DEPTH PRIOR TO ORDERING SHOP DRAWINGS FOR STORM SEWER UTILITIES. CONTACT CIVIL ENGINEER WITH FINDINGS. A MINIMUM OF 1.5 FEET OF VERTICAL SEPARATION IS REQUIRED BETWEEN WATER MAINS AND SEWER LINES.
- PROVIDE PIPE CONNECTION TO EXISTING DOWNSPOUT. REFER TO DETAIL 10/C501. REFER TO STORM SEWER TABLE FOR INVERT ELEVATIONS AND PIPE SIZES. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO THE START OF CONSTRUCTION.
- INSTALL TRENCH DRAIN. REFER TO DETAIL 5/C501.
- LOCATION OF PROPOSED ROOF DRAIN LEAD. REFER TO STORM SEWER TABLE FOR INVERT ELEVATIONS AND PIPE SIZES. COORDINATE EXACT LOCATION, SIZE, AND INVERT ELEVATION WITH MECHANICAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- INSTALL 6-INCH 45-DEGREE BEND WITH THRUST BLOCKING.
- INSTALL 6-INCH 22.5-DEGREE BEND WITH THRUST BLOCKING.
- ADJUST EXISTING MANHOLE TO MATCH PROPOSED GRADE. REFER TO C205 FOR PROPOSED ELEVATION.
- CORE DRILL EXISTING MANHOLE FOR PROPOSED PIPE CONNECTION. AT INVERT 874.00. PROVIDE WATER TIGHT SEAL WITH FLEXIBLE COMPRESSION JOINT. CEMENT MORTAR JOINTS ARE PERMITTED ONLY FOR REPAIRS AND CONNECTIONS OF EXISTING LINES CONSTRUCTED WITH SUCH JOINTS.
- INSTALL 6-INCH BY 6-INCH TEE.
- LOCATION OF PROPOSED SANITARY SEWER SERVICE. REFER TO SANITARY SEWER TABLE FOR INVERT ELEVATIONS AND PIPE SIZES. COORDINATE EXACT LOCATION, SIZE, AND INVERT ELEVATION WITH MECHANICAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- STUB 2-INCH TYPE K COPPER WATER SERVICE TO BUILDING. COORDINATE EXACT LOCATION, SIZE, AND INVERT ELEVATION WITH MECHANICAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- STUB 6-INCH FIRE PROTECTION WATERLINE TO WITHIN 5- FEET OF THE PROPOSED BUILDING. TOP OF WATER SERVICE SHALL BE 7.5 FEET BELOW FINISHED GRADE AT THE PROPOSED CONNECTION POINT. COORDINATE EXACT LOCATION WITH MECHANICAL AND STRUCTURAL PLANS PRIOR TO THE START OF CONSTRUCTION.
- STUB 4-INCH IRRIGATION WATERLINE TO WITHIN 5- FEET OF THE PROPOSED BUILDING. TOP OF WATER SERVICE SHALL BE 7.5 FEET BELOW FINISHED GRADE AT THE PROPOSED CONNECTION POINT. COORDINATE EXACT LOCATION WITH MECHANICAL AND STRUCTURAL PLANS PRIOR TO THE START OF CONSTRUCTION.
- LOCATION OF PROPOSED DOWNSPOUT CONNECTION. REFER TO STORM SEWER TABLE FOR INVERT ELEVATIONS AND PIPE SIZES. REFER TO DETAIL 10/C501. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- LOCATION OF PROPOSED COW'S TONGUE DOWNSPOUT PICK-UP. REFER TO STORM SEWER TABLE FOR INVERT ELEVATIONS AND PIPE SIZES. REFER TO DETAIL 14/C500. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- CONNECT TO EXISTING 6-INCH WATER MAIN WITH 6-INCH VALVE. REFER TO DETAIL 9/C500.
- INSTALL DRAIN TILE CLEAN OUT. TOP OF CLEAN OUT SHALL BE INSTALLED AT 2- FEET ABOVE FINISHED GRADE. REFER TO DETAIL 15/C502.
- INSTALL 6-INCH GATE VALVE.
- INSTALL 6-INCH BY 4-INCH TEE.
- STUB 4-INCH DOMESTIC WATERLINE TO WITHIN 5- FEET OF THE PROPOSED BUILDING. TOP OF WATER SERVICE SHALL BE 7.5 FEET BELOW FINISHED GRADE AT THE PROPOSED CONNECTION POINT. COORDINATE EXACT LOCATION WITH MECHANICAL AND STRUCTURAL PLANS PRIOR TO THE START OF CONSTRUCTION.
- INSTALL 4-INCH 45-DEGREE BEND WITH THRUST BLOCKING.
- INSTALL 4-INCH GATE VALVE.

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CB	Catch Basin
CONC	Concrete
DIP	Ductile Iron Pipe
DS	Downdraft
E	Electric
ELEV	Elevation
EX	Existing
FFE	Finish Floor Elevation
FD	Fiber Optic
HH	Hand Hole
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
UP	Underground Power
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
WQE	Water Quality Elevation

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
PROPERTY LINE	---
SAW CUT LINE (APPROX.)	---
WATER PIPE	---
DRAIN TILE	---
STORM SEWER	---
FIRE HYDRANT	---
GATE VALVE	---
CATCH BASIN	---
MANHOLE	---
FLARED END SECTION	---
FLARED END SECTION WITH RIPRAP	---



UTILITY NOTES FOR WORK IN PUBLIC RIGHT-OF-WAY:

- FOLLOW ALL CITY OF COTTAGE GROVE STANDARDS AND SPECIFICATIONS.
- PRIOR TO CONSTRUCTION, CONTRACTORS ARE TO COORDINATE ALL WORK WITHIN RIGHT-OF-WAY AND OBTAIN ALL APPLICABLE PERMITS.

NOTE: WHERE PROPOSED GRADE OVER EXISTING SMALL UTILITIES IS PROPOSED TO BE LOWERED, CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER FOR THE LOWERING OF THE EXISTING UTILITY TO PROVIDE THE MINIMUM COVER REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

NOTE: PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL POT HOLE AND DETERMINE THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES. CONTACT CIVIL ENGINEER IF EXISTING UTILITIES TO REMAIN WILL BE IMPACTED BY PROPOSED WORK.

NOTE: REFER TO C300 FOR UTILITY NOTES.



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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 MN.

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Date: 11-1-2024 License Number: 52209

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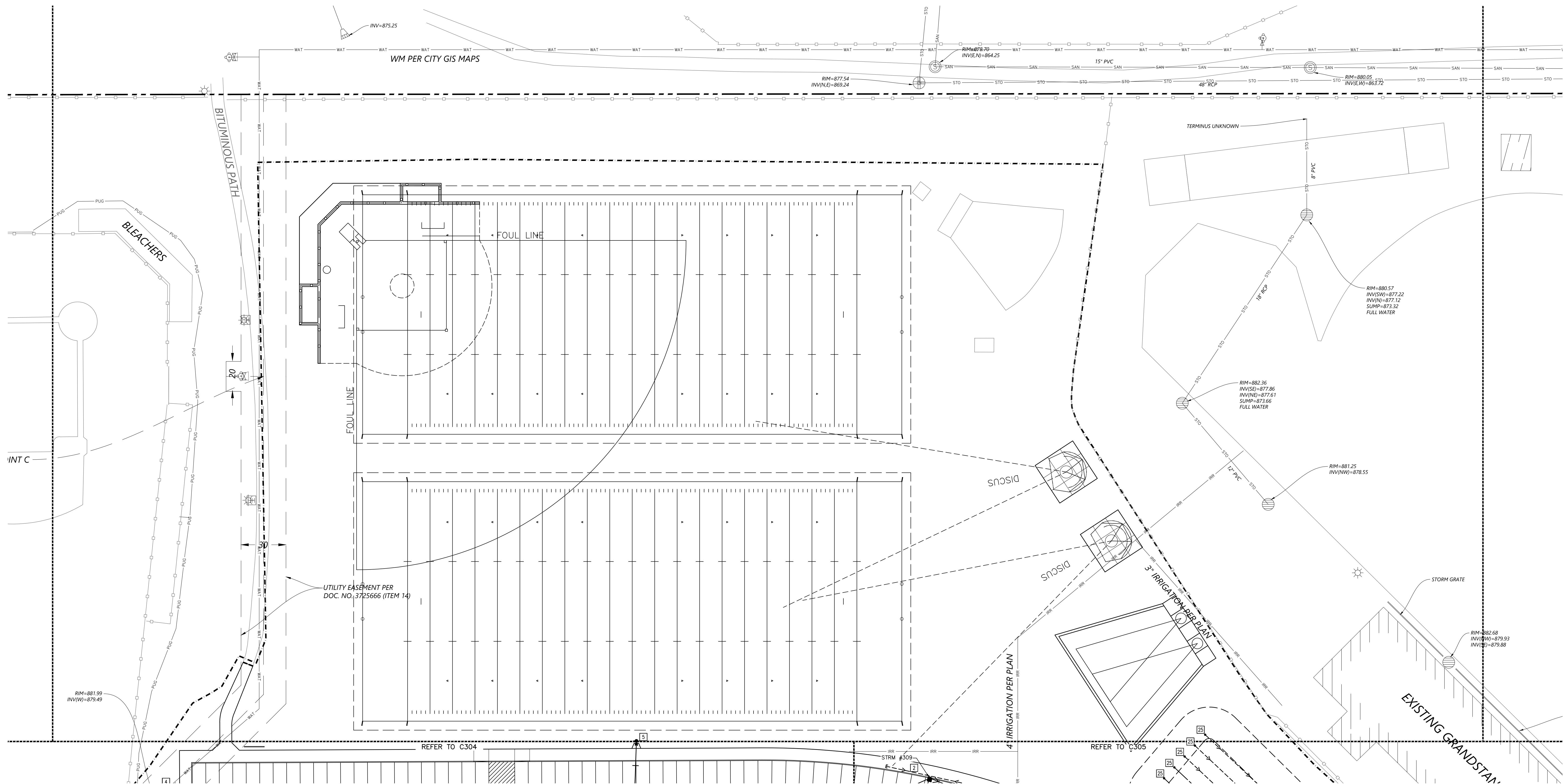
UTILITY PLAN

PROJECT: 23270
DRAWN BY: WH
CHECKED BY: KAB
DATE: 11.1.2024
REVISIONS:

BID PACKAGE
#1: PRICING
SET

C305

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016



1
C306
UTILITY PLAN
1" = 30'

KEYED NOTES

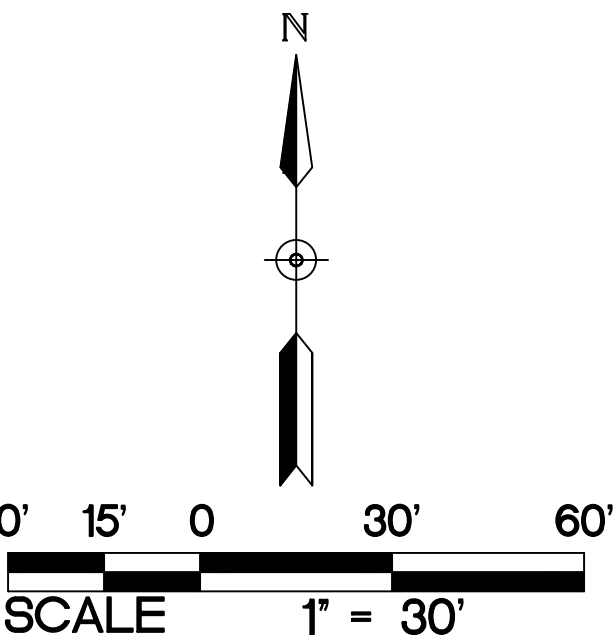
KEYED NOTES ARE DENOTED BY [NO] ON PLAN.

- [1] INSTALL DRAIN TILE AT LOW POINT CATCH BASINS. REFER TO DETAIL 9/C501.
[2] INSTALL FIRE HYDRANT AND GATE VALVE.
[3] INSTALL DRAIN TILE CLEAN OUT. TOP OF CLEAN OUT SHALL BE INSTALLED AT 2'-FEET ABOVE FINISHED GRADE. REFER TO DETAIL 15/C502.

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CB	Catch Basin
CONC	Concrete
DIP	Ductile Iron Pipe
ELEV	Elevation
EX	Existing
FTE	Finished Floor Elevation
HDPE	High Density Polyethylene
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PV	Post Indicator Valve
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
RD	Roof Drain
WQE	Water Quality Elevation

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
PROPERTY LINE	----
SAWCUT LINE (APPROX.)	- - - - -
WATER PIPE	+
FIRE HYDRANT	[Symbol]

NOTE:
PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL POTHOLE AND DETERMINE THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES. CONTACT CIVIL ENGINEER IF EXISTING UTILITIES TO REMAIN WILL BE IMPACTED BY PROPOSED WORK.



- UTILITY NOTES FOR WORK IN PUBLIC RIGHT-OF-WAY:
- FOLLOW ALL CITY OF COTTAGE GROVE STANDARDS AND SPECIFICATIONS.
 - PRIOR TO CONSTRUCTION, CONTRACTORS ARE TO COORDINATE ALL WORK WITHIN RIGHT-OF-WAY AND OBTAIN ALL APPLICABLE PERMITS.

NOTE:
WHERE PROPOSED GRADE OVER EXISTING SMALL UTILITIES IS PROPOSED TO BE LOWERED, CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER FOR THE LOWERING OF THE EXISTING UTILITY TO PROVIDE THE MINIMUM COVER REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

NOTE:
REFER TO C300 FOR UTILITY NOTES.

UTILITY PLAN

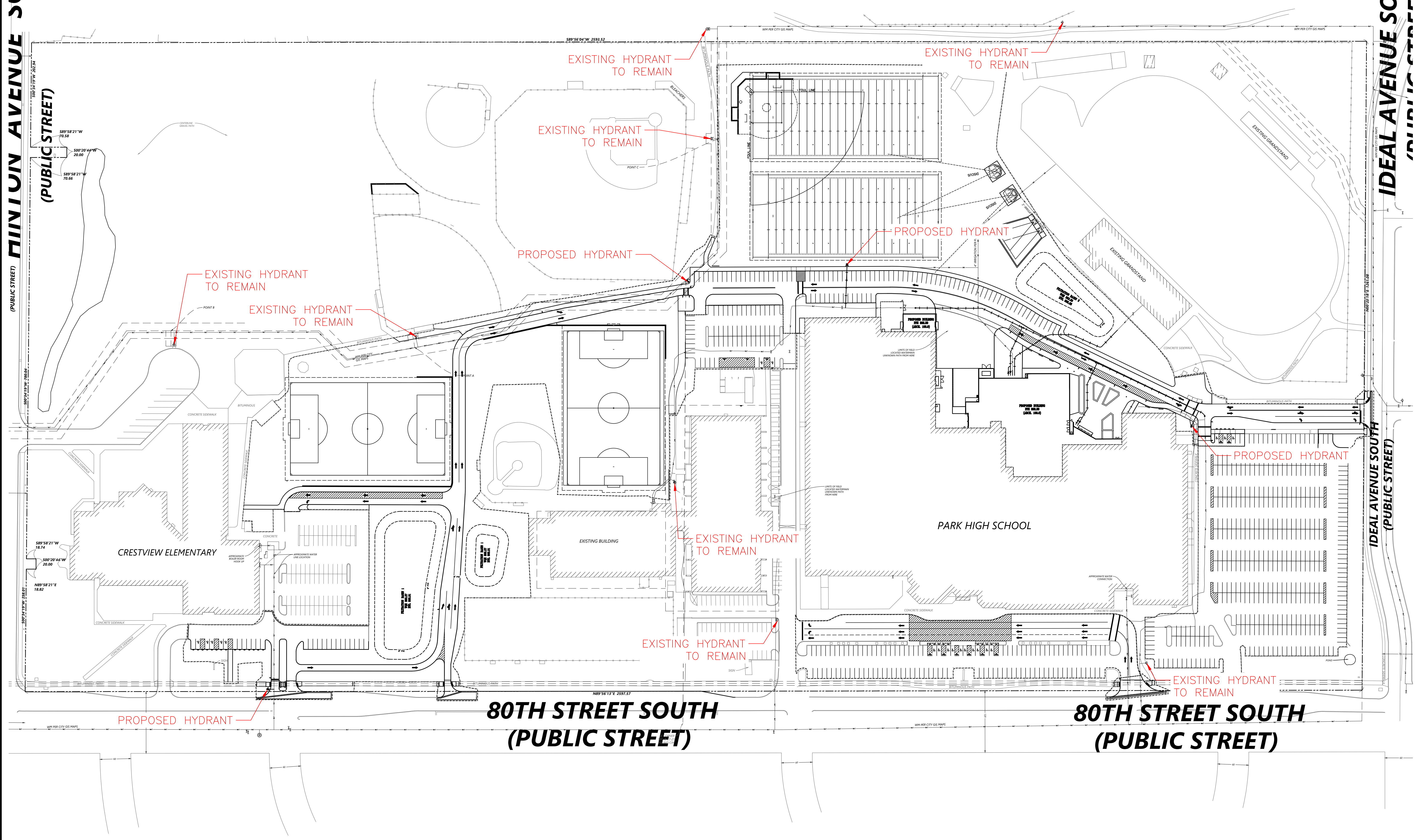
PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

PROJECT: 23270
DRAWN BY: WH
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REVISIONS:

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C306

PUBLIC STREET
PARK AVENUE SOUTH
(PUBLIC STREET)

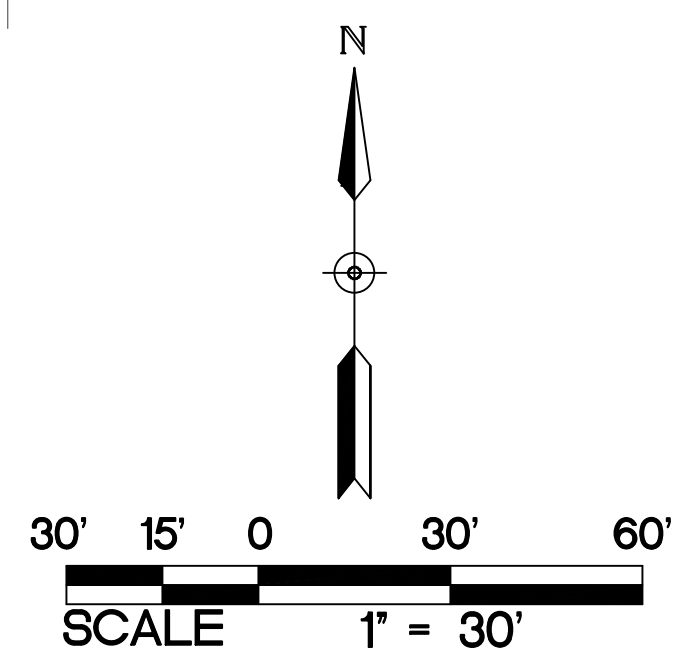


80TH STREET SOUTH
(PUBLIC STREET)

80TH STREET SOUTH
(PUBLIC STREET)

IDEAL AVENUE SOUTH
(PUBLIC STREET)

C307 FIRE HYDRANT EXHIBIT
1" = 80'



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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 MN.
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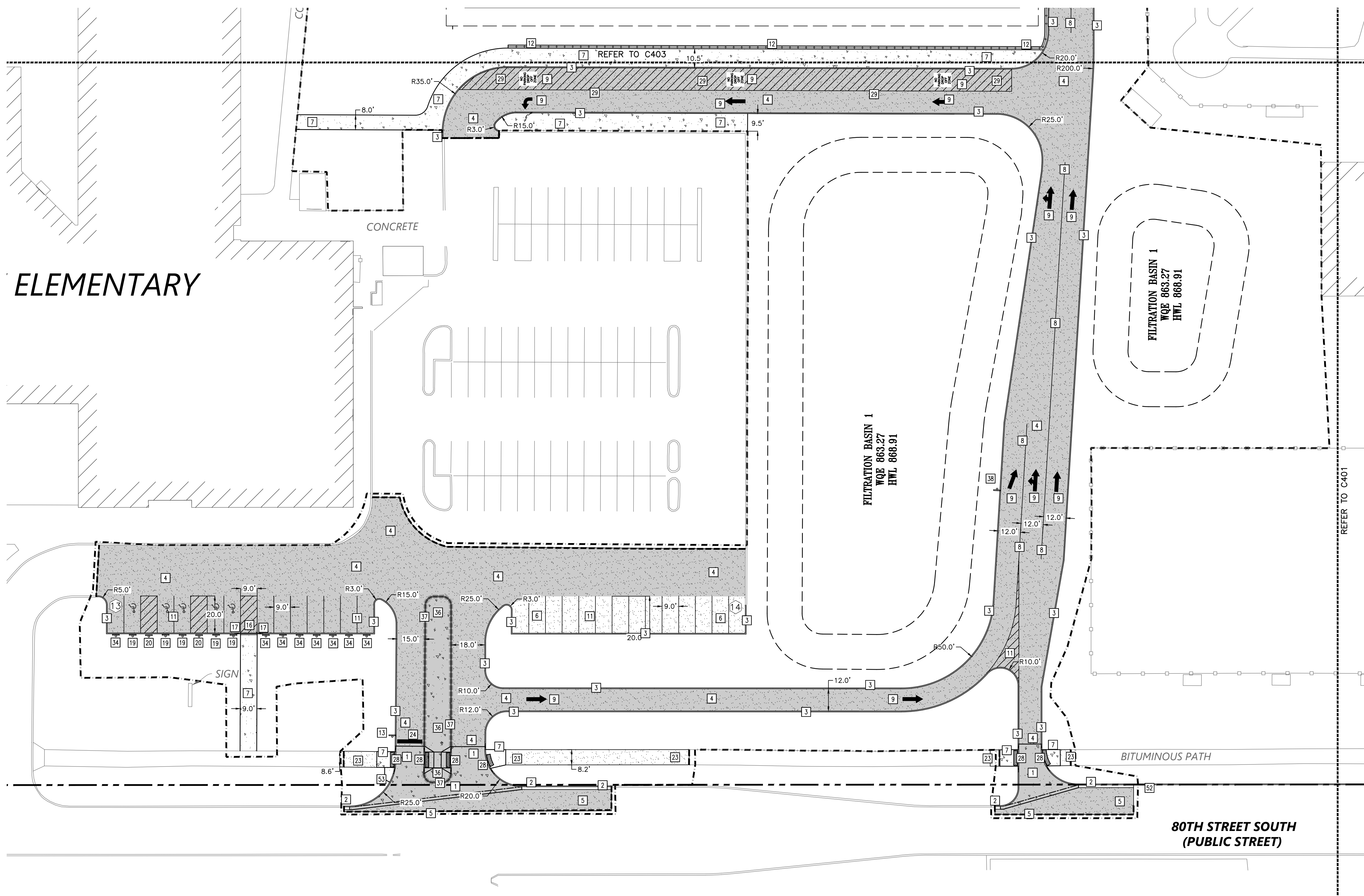
FIRE HYDRANT EXHIBIT

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

PROJECT: 23270
DRAWN BY: WH
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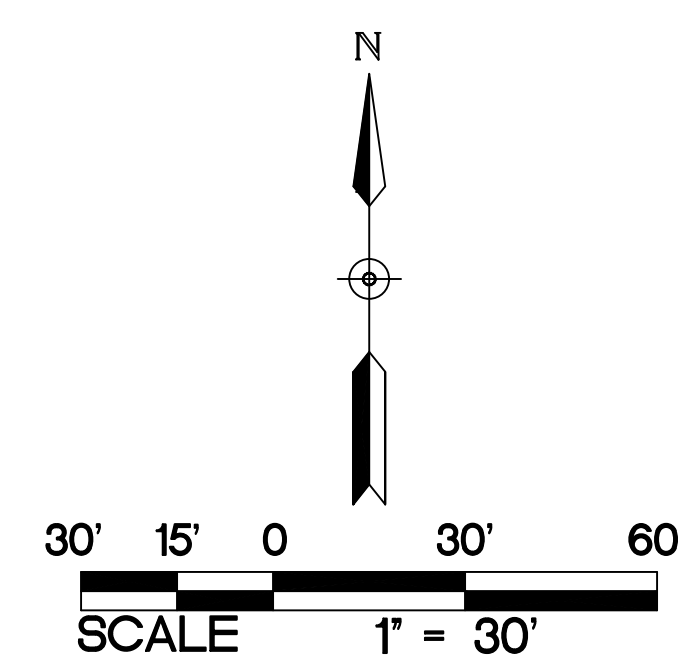
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C307



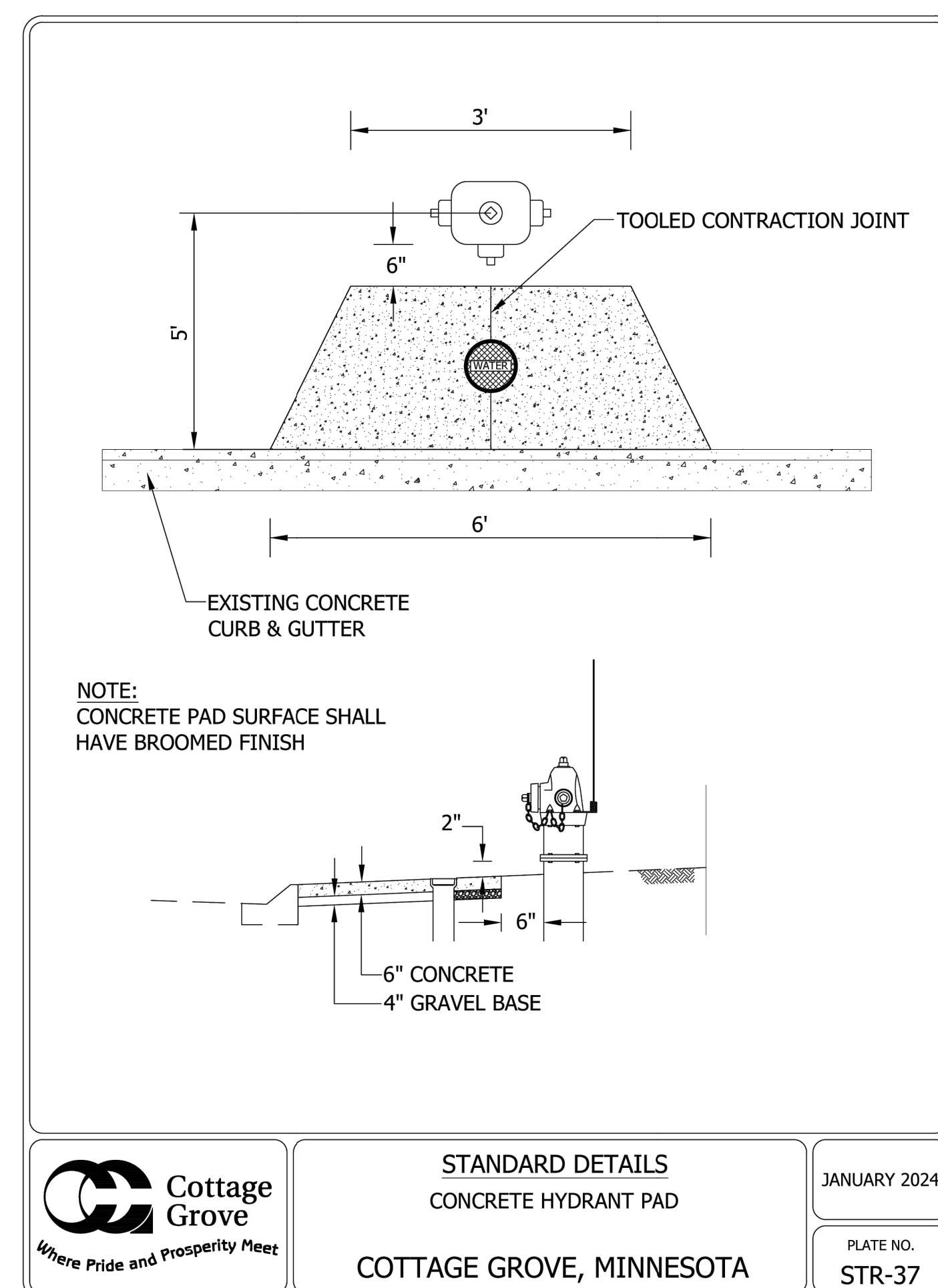
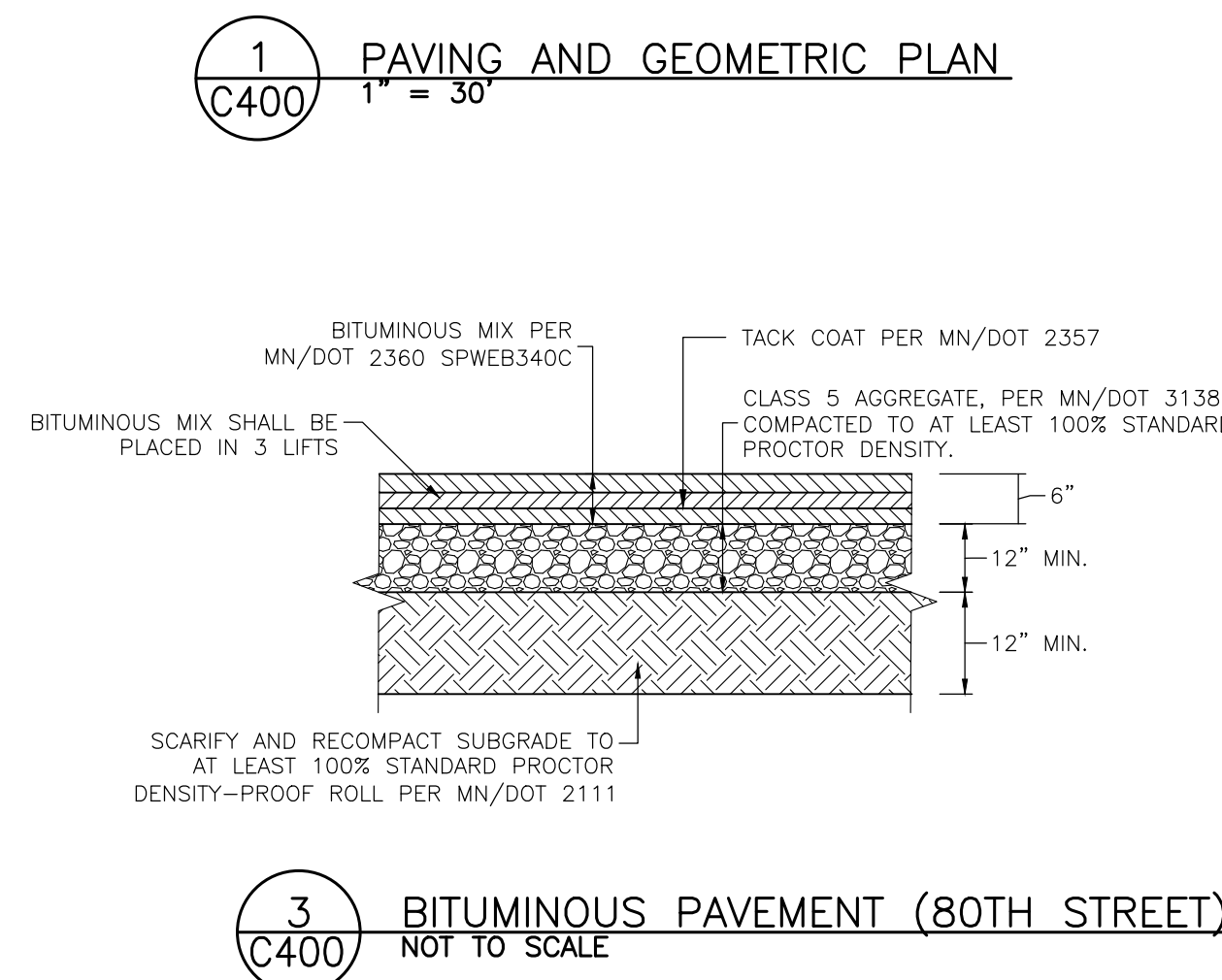
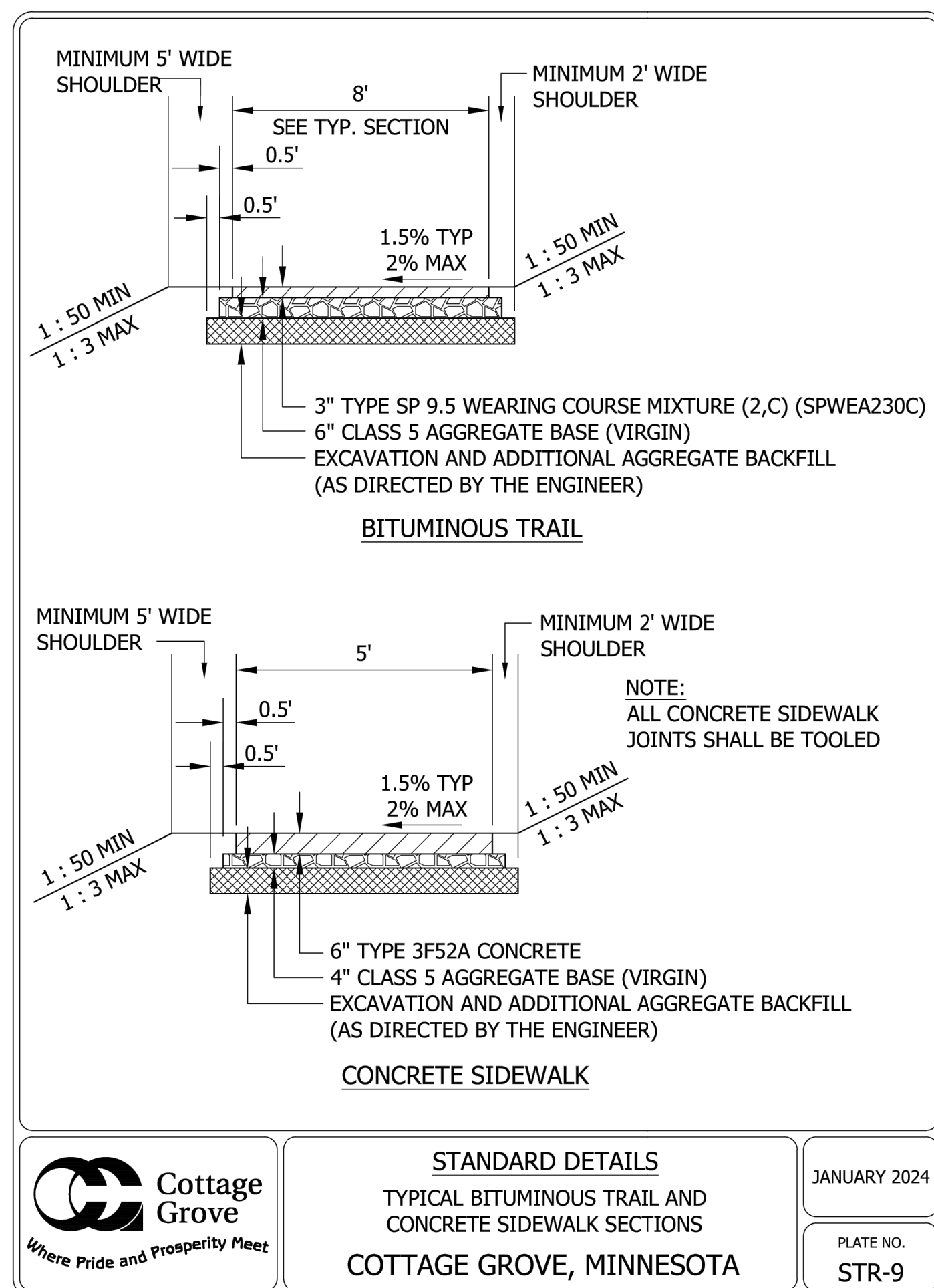
PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
FENCE	---
LIGHT DUTY BITUMINOUS PAVEMENT	---
HEAVY DUTY BITUMINOUS PAVEMENT	---
CONCRETE SIDEWALK	---
CONCRETE PAVEMENT	---
FLAT CURB AND GUTTER	---
FLAT CURB AND GUTTER	---
PEDESTRIAN CURB RAMP	---
SIGN	---
PARKING STALL COUNT	---
WORK BY OTHERS	---

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CONC	Concrete
ELEV	Elevation
EX	Existing
FTE	Finished Floor Elevation
LFE	Lower Floor Elevation
MAX	Maximum
MIN	Minimum
R	Radius
TYP.	Typical
MNUTCD	Minnesota Manual on Uniform Traffic Control Devices



- PAVING NOTES:
- CONTRACTOR SHALL FOLLOW ALL CITY OF COTTAGE GROVE STANDARDS AND SPECIFICATIONS.
 - ALL DIMENSIONS ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
 - ALL CURB AND GUTTER IS TO BE B612 CONCRETE CURB AND GUTTER UNLESS NOTED OTHERWISE.
 - NO SIDEWALK IS TO HAVE MORE THAN A 2% CROSS SLOPE OR MORE THAN A 5% LONGITUDINAL SLOPE.
 - REFER TO ARCHITECTURAL PLANS FOR PROPOSED BUILDING LAYOUT.
 - FOLLOW ALL CITY OF COTTAGE GROVE RULES, REGULATIONS, AND SPECIFICATIONS WHEN WORKING IN PUBLIC RIGHT OF WAY.
 - STRIPED PARKING LOTS AS SHOWN. ALL PARKING STALLS ARE TO BE 9 FEET WIDE BY 20 FEET LONG, UNLESS NOTED OTHERWISE.
 - ACCESSIBLE AISLES SHALL BE STRIPED PER MN CODE (SECTION 502), WHERE "NO PARKING" SIGNAGE WOULD OBSTRUCT A CURB RAMP OR ACCESSIBLE ROUTE, "NO PARKING" SHALL BE PRINTED ON THE SURFACE OF THE ACCESS AISLE.
 - THE CONTRACTOR IS TO CONTACT THE CITY OF COTTAGE GROVE FIRE MARSHALL FOR THE EXACT PLACEMENT OF FIRE LANES, YELLOW-PAINTED CURBING, AND NO PARKING AREAS FOR FIRE PROTECTION PURPOSES.
 - REFER TO STRUCTURAL PLANS FOR STOOP DETAILS. ALL WALKS ARE TO BE CENTERED ON THE DOORS.
 - INSTALL APPROPRIATE EXPANSION MATERIAL WHERE CONCRETE IS ADJACENT TO BUILDING FACE.
 - ALL EXPANSION AND ISOLATION JOINTS SHALL BE SEALED PER SPECIFICATIONS.
 - MATCH NEW PAVEMENT, CURB AND GUTTER, AND SIDEWALK INTO EXISTING. NO ABRUPT GRADE TRANSITIONS OR PONDING OF WATER WILL BE ALLOWED.
 - SAWCUT EXISTING PAVEMENT, SIDEWALK, AND CURB AND GUTTER TO NEAREST JOINT. COORDINATE REMOVAL LIMITS WITH SITE DEMOLITION CONTRACTOR AND CONSTRUCTION MANAGER.
 - INSTALL DRIVE ENTRANCE PER CITY OF COTTAGE GROVE STANDARDS AND SPECIFICATIONS. FOLLOW ALL CITY OF COTTAGE GROVE REQUIREMENTS FOR TRAFFIC CONTROL.
 - REFER TO SPECIFICATIONS FOR GRADE VERIFICATION SURVEY REQUIREMENTS PRIOR TO PLACEMENT OF SUB-BASE MATERIAL, BASE MATERIAL, AND PAVEMENTS/SIDEWALKS.

- KEYED NOTES
- KEYED NOTES ARE DENOTED BY [] ON PLAN.
- INSTALL CONCRETE DRIVE ENTRANCE. REFER TO DETAIL 1/C502.
 - INSTALL B618 CONCRETE CURB AND GUTTER. REFER TO DETAIL 2/C502.
 - INSTALL B612 CONCRETE CURB AND GUTTER. REFER TO DETAIL 3/C502.
 - INSTALL HEAVY-DUTY BITUMINOUS PAVEMENT. REFER TO DETAIL 7/C502.
 - INSTALL NEW BITUMINOUS PAVEMENT TO MATCH EXISTING PAVEMENT CROSS SECTION IN BOTH STREET. REFER TO DETAIL 3/C400.
 - INSTALL LIGHT-DUTY BITUMINOUS PAVEMENT. REFER TO DETAIL 6/C502.
 - INSTALL CONCRETE WALK. REFER TO DETAIL 10/C502.
 - STRIPED LANE DELINEATION, 4" WIDE AND WHITE IN COLOR.
 - PAINT TRAFFIC ARROW AND VERBIAGE AS SHOWN, WHITE IN COLOR.
 - PAINT PARKING LOT STRIPING AND NO PARKING AREA, 4" WIDE STRIPES, WHITE IN COLOR. STRIPING FOR CROSS HATCH SHALL BE AS SHOWN SPACED 3' APART.
 - INSTALL FENCE WITH CONCRETE MAINTENANCE STRIP. REFER TO DETAIL 14/C502 FOR MAINTENANCE STRIP. REFER TO LANDSCAPE PLANS AND SPECIFICATIONS FOR FENCING.
 - INSTALL STOP SIGN. REFER TO DETAIL 13/C502.
 - INSTALL FLAT CURB. REFER TO DETAIL 4/C502.
 - INSTALL NOSE-DOWN CURB SECTION. REFER TO DETAIL 5/C502.
 - INSTALL ACCESSIBLE PARKING SIGN. REFER TO DETAIL 13/C502.
 - INSTALL NO PARKING ANY TIME SIGN. REFER TO DETAIL 13/C502.
 - INSTALL BITUMINOUS PATH TO MATCH EXISTING BITUMINOUS PATH SECTION. REFER TO DETAIL 2/C400.
 - STRIPED STOP BAR, 24" WIDE AND WHITE IN COLOR WITH 4" BLACK STRIPES TO EITHER SIDE WHEN PLACED ON CONCRETE.
 - INSTALL PEDESTRIAN CURB RAMP. REFER TO MN/DOT STANDARD PLANS ON C503. PEDESTRIAN CURB RAMP TO BITUMINOUS TRAILS SHALL USE GRADED FLARES WHEN NOT ADJACENT TO A VALUABLE SURFACE.
 - PAINT PARKING LOT NO PARKING AREA, 4" WIDE STRIPES, BLUE IN COLOR. STRIPING FOR CROSS HATCH SHALL BE AS SHOWN SPACED 3' APART.
 - INSTALL SALVAGED NO PARKING SIGN AND NEW POST. REFER TO DETAIL 13/C502 FOR NEW POST INSTALLATION.
 - INSTALL CONCRETE PAVEMENT. REFER TO DETAIL 8/C502.
 - INSTALL D412 SURMOUNTABLE CURB. REFER TO DETAIL 12/C502.
 - INSTALL LEFT LANE ENDS MERGE RIGHT PARKING SIGN. REFER TO DETAIL 13/C502.
 - WORK BY OTHERS. SHOWN FOR REFERENCE ONLY.
 - INSTALL CONCRETE HYDRANT PAD. REFER TO DETAIL 4/C400.



PARKING STALL COUNT - CRESTVIEW ELEMENTARY SCHOOL	
REQUIRED PARKING STALLS	40
REQUIRED ADA STALLS	2
EXISTING PARKING STALLS	93
EXISTING ADA STALLS	3
PROPOSED PARKING STALLS	105
PROPOSED ADA STALLS	5

PARKING STALL COUNT - PARK HIGH SCHOOL	
REQUIRED PARKING STALLS	248
REQUIRED ADA STALLS	7
EXISTING PARKING STALLS	662
EXISTING ADA STALLS	15
PROPOSED PARKING STALLS	733
PROPOSED ADA STALLS	15

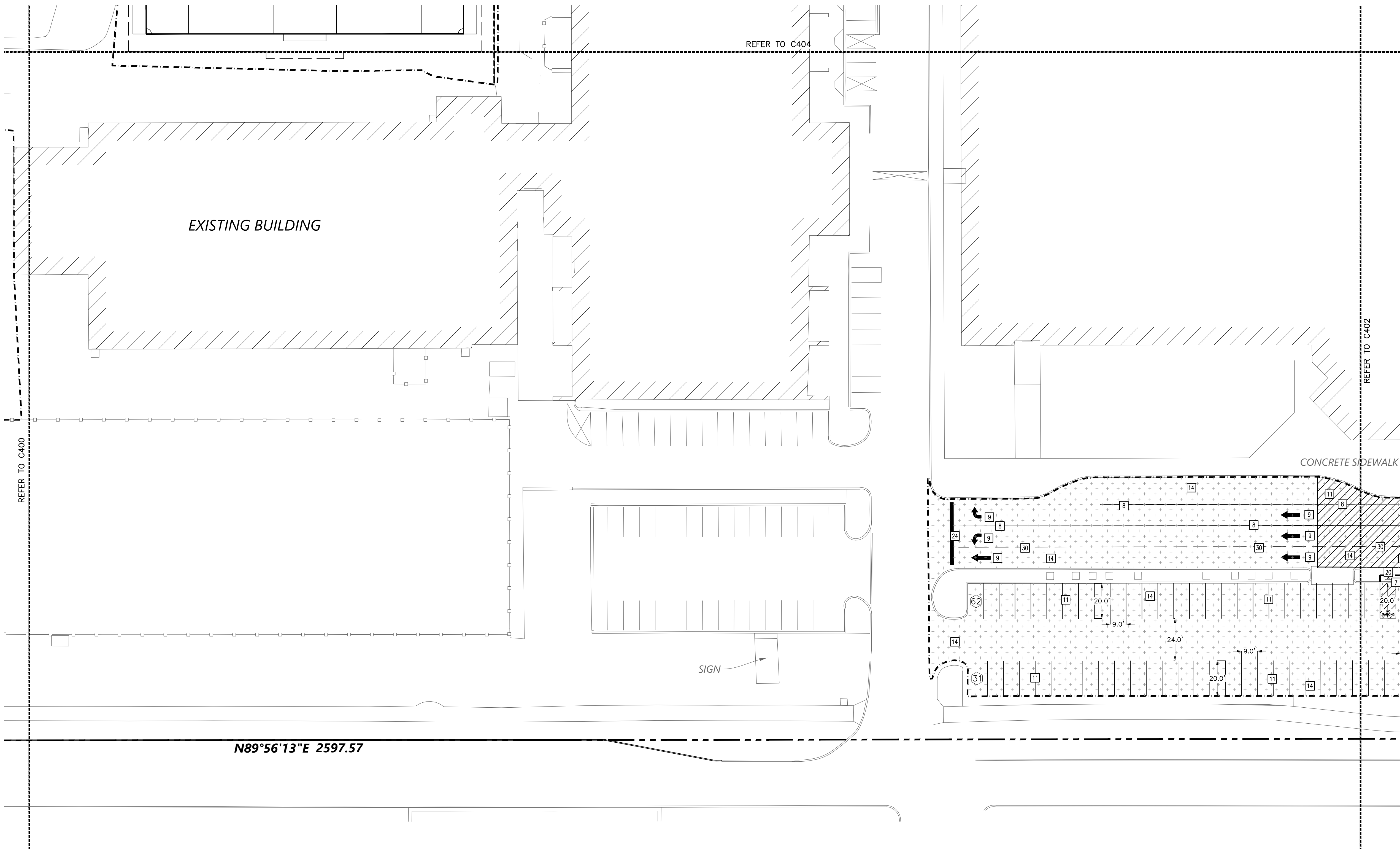
PAVING AND GEOMETRIC PLAN

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

PROJECT: 23270
DRAWN BY: WH
CHECKED BY: KAB
DATE: 11.1.2024
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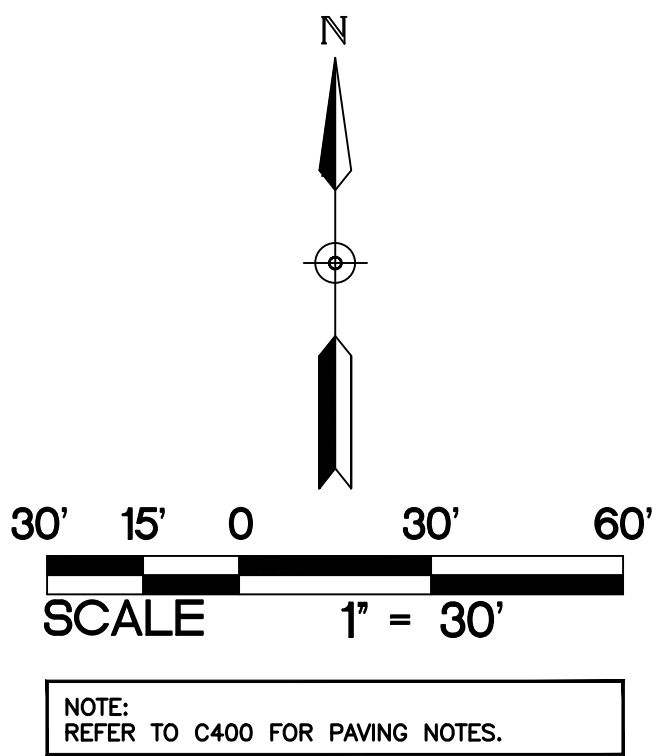
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C400

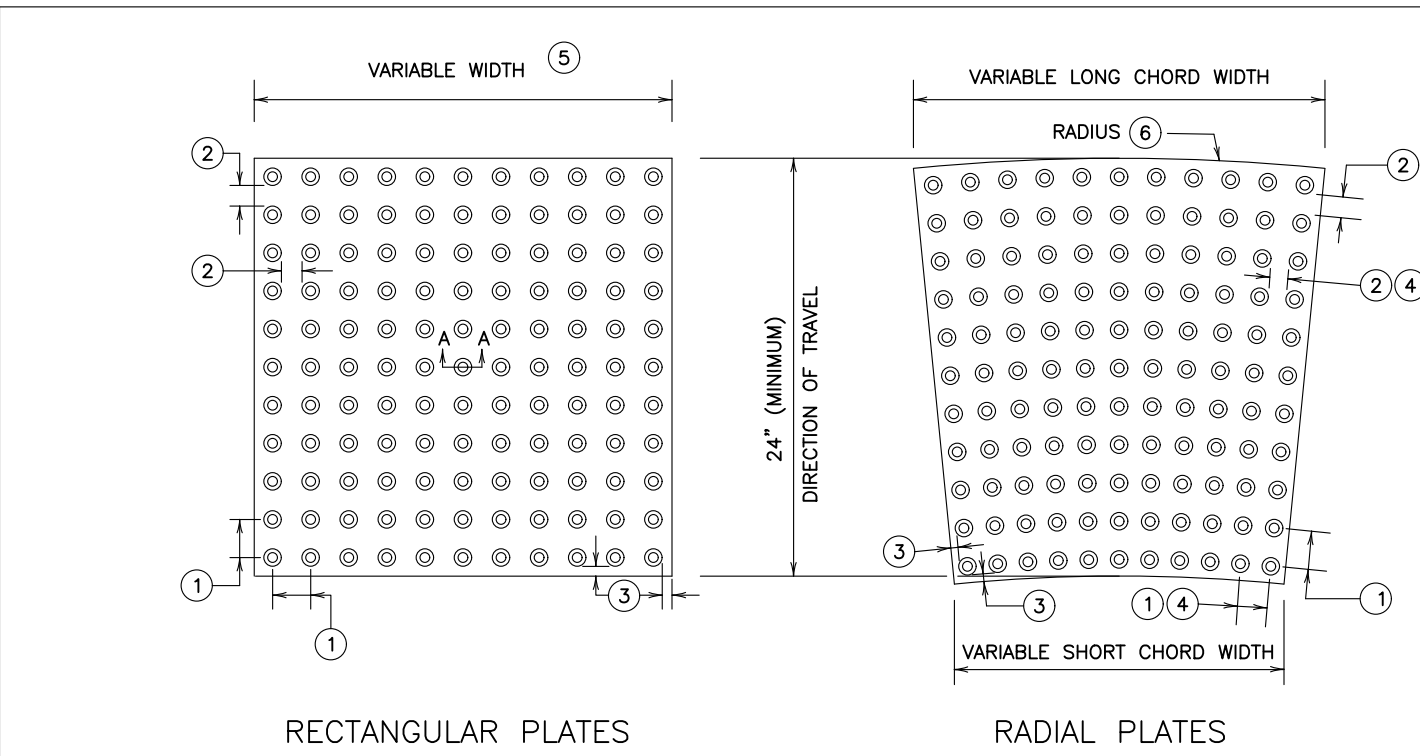


ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CONC	Concrete
ELEV	Elevation
EX	Existing
FTE	Finished Floor Elevation
LFE	Lower Floor Elevation
MAX	Maximum
MIN	Minimum
R	Radius
TYP	Typical
MN/UTCD	Minnesota Manual on Uniform Traffic Control Devices

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
BITUMINOUS RESURFACING	[Pattern]
PARKING STALL COUNT	(31)



- KEYED NOTES
- KEYED NOTES ARE DENOTED BY [] ON PLAN.
- [8] STRIPE LANE DELINEATION, 4" WIDE AND WHITE IN COLOR.
- [9] PAINT TRAFFIC ARROW AND VERBIAGE AS SHOWN, WHITE IN COLOR.
- [11] PAINT PARKING LOT STRIPING AND NO PARKING AREA, 4" WIDE STRIPES, WHITE IN COLOR. STRIPING FOR CROSS HATCH SHALL BE AS SHOWN SPACED 3' APART.
- [14] PROVIDE 6-INCH DEPTH BITUMINOUS RECLAMATION AND SUBCUT SUBGRADE TO PROVIDE NEW 4-INCH BITUMINOUS SECTION. REFER TO DETAIL 12/C501 FOR NEW BITUMINOUS SECTION.
- [24] STRIPE STOP BAR, 24" WIDE AND WHITE IN COLOR WITH 4" BLACK STRIPES TO EITHER SIDE WHEN PLACED ON CONCRETE.
- [30] STRIPE DASHED LANE DELINEATION, 4" WIDE, 2-FEET SOLID, 6-FEET GAP, AND WHITE IN COLOR.



TYPICAL RADIAL TRUNCATED DOME PLATES			
RADIUS (FEET)	LONG CHORD WIDTH (INCHES)	SQ. FT. PER PLATE	PLATES REQUIRED FOR 90 DEGREE TURN
10	23-1/2	3.53	8
15	18-13/16	2.93	15
15	23-1/2	3.67	12
20	18-13/16	3.00	20
20	18-7/8	2.98	20
25	20-1/2	3.28	23
25	23-9/16	3.77	20
30	22-5/8	3.65	25
35	22	3.56	30

NOTES:		DETECTABLE WARNING PLATES SHALL BE INENAH FOUNDRY, UNCOATED CAST IRON OR APPROVED EQUAL.	
DETECTABLE WARNING SURFACES SHALL FOLLOW THE PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG).		ALL TRUNCATED DOME SYSTEMS SHALL BE PLACED IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.	
DETECTABLE WARNINGS CONSIST OF TRUNCATED DOMES ALIGNED IN A SQUARE OR RADIAL GRID PATTERN.		1 CENTER TO CENTER DOME SPACING: 1.6" MINIMUM, 2.4" MAXIMUM.	
DETECTABLE WARNINGS ARE REQUIRED:		2 BASE TO BASE DOME SPACING: 0.65" MINIMUM, 0.75" MAXIMUM.	
- WHERE RAMP, LANDING, OR BLENDED TRANSITIONS PROVIDE A FLUSH PEDESTRIAN CONNECTION TO THE ROADWAY.		3 DOME BASE TO PLATE EDGE SPACING: 0.35" MINIMUM, 0.75" MAXIMUM.	
- WHERE PEDESTRIAN ACCESS ROUTES CROSS COMMERCIAL DRIVEWAYS THAT ARE PROVIDED WITH TRAFFIC CONTROL DEVICES OR OTHERWISE PERMITTED TO OPERATE LIKE A PUBLIC ROADWAY.		4 SPACING VARIES ON RADIAL PLATES.	
- AT PEDESTRIAN RAILWAY CROSSINGS.		5 TYPICAL WIDTHS AVAILABLE: 12", 18", 24", 30", 36". CHECK WITH MANUFACTURERS FOR AVAILABLE WIDTHS.	
- ON RAIL PLATFORMS WHERE BOARDING EDGES ARE NOT PROTECTED.		6 ON RADIAL PLATE, RADIUS DEFINED AT BACK OF CURB.	
DETECTABLE WARNINGS SHALL EXTEND:		7 TYPICAL RADII. CHECK WITH MANUFACTURERS FOR AVAILABLE RADII.	
- A MINIMUM OF 24" IN THE DIRECTION OF TRAVEL.			
- THE FULL WIDTH OF THE RAMP, LANDING, OR BLENDED TRANSITION, WITHIN 3' OF FULL WIDTH ON EITHER END.			
- THE FULL LENGTH OF THE PUBLIC USE AREA OF A RAIL PLATFORM.			
DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT OUTTER, ROADWAY, OR WALKWAY, EITHER A LIGHT-ON-DARK OR DARK-ON-LIGHT. CONTRAST MAY BE PROVIDED ON THE FULL RAMP SURFACE, EXCLUDING THE FLARED SIDES.			

STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION	SPECIFICATION REFERENCE	STANDARD PLATE NO.
DETECTABLE WARNING SURFACE TRUNCATED DOMES	2531	7038A

NOTE:
FOR ADA COMPLIANT PEDESTRIAN RAMPS, REFER TO MN/DOT STANDARD PLAN 5-297.250 PEDESTRIAN CURB RAMP DETAILS AT THE FOLLOWING WEB ADDRESS:
[HTTP://STANDARDPLATES.DOT.STATE.MN.US/STDPLATE.ASPX](http://STANDARDPLATES.DOT.STATE.MN.US/STDPLATE.ASPX)

CONTRACTOR SHALL COORDINATE FINAL CURB RAMP LOCATION AND PEDESTRIAN CURB RAMP DETAIL WITH THE CITY AND OWNER PRIOR TO INSTALLATION.

2 PEDESTRIAN CURB RAMP — DETECTABLE WARNING
C401 NOT TO SCALE



KRAUS-ANDERSON CONSTRUCTION COMPANY
901 SOUTH EIGHTH STREET, MINNEAPOLIS, MN 55425
P. 612.333.7281

KOMA
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KOMAINC.COM

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 MN.

Kevin A. Bohl
Date: 11-1-2024 License Number: 52209

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BKBM Project No. 24222.50

PAVING AND GEOMETRIC PLAN

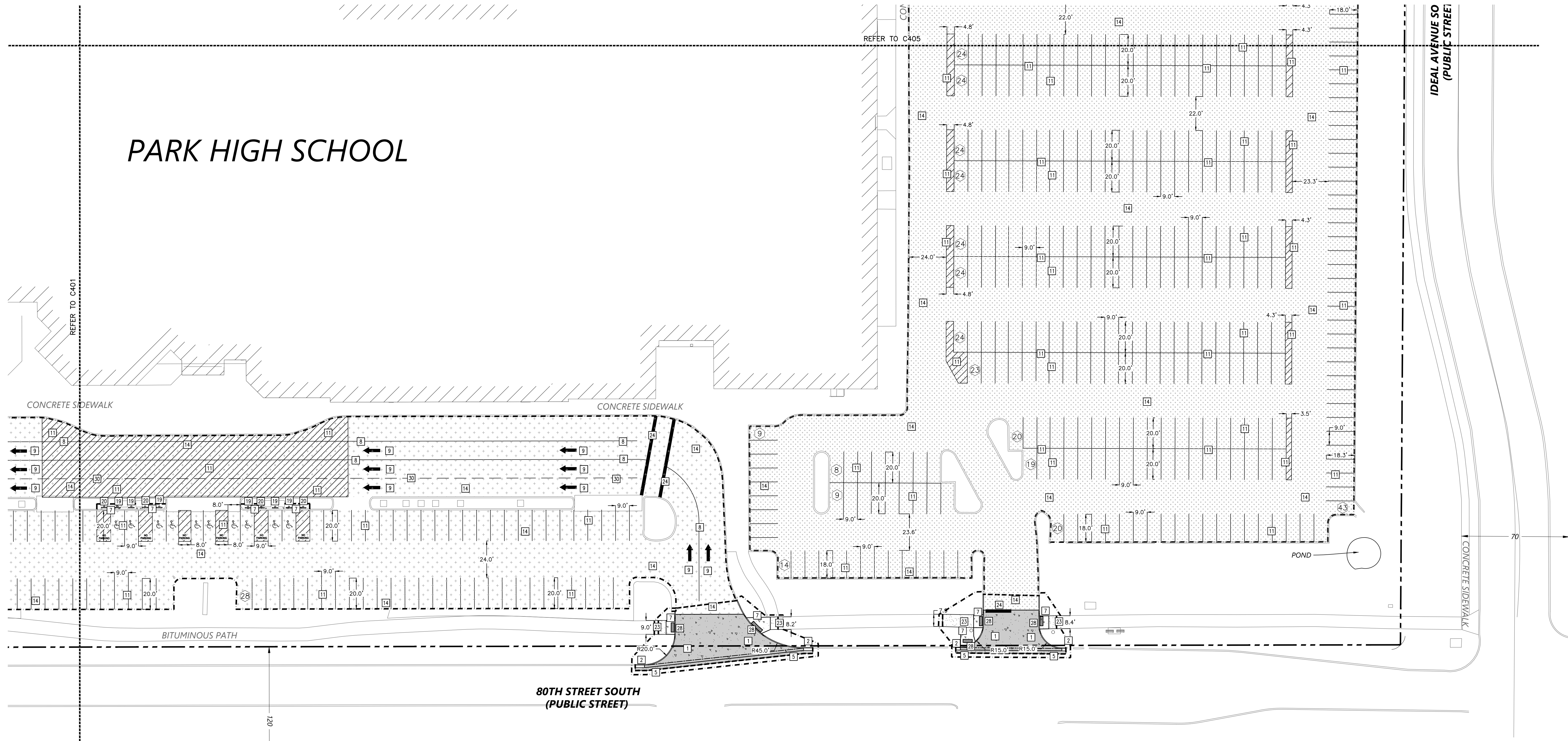
PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

PROJECT: 23270
DRAWN BY: WH
CHECKED BY: KAB
DATE: 11.1.2024
REVISIONS:

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PARK HIGH SCHOOL



1 PAVING AND GEOMETRIC PLAN
C402 1" = 30'

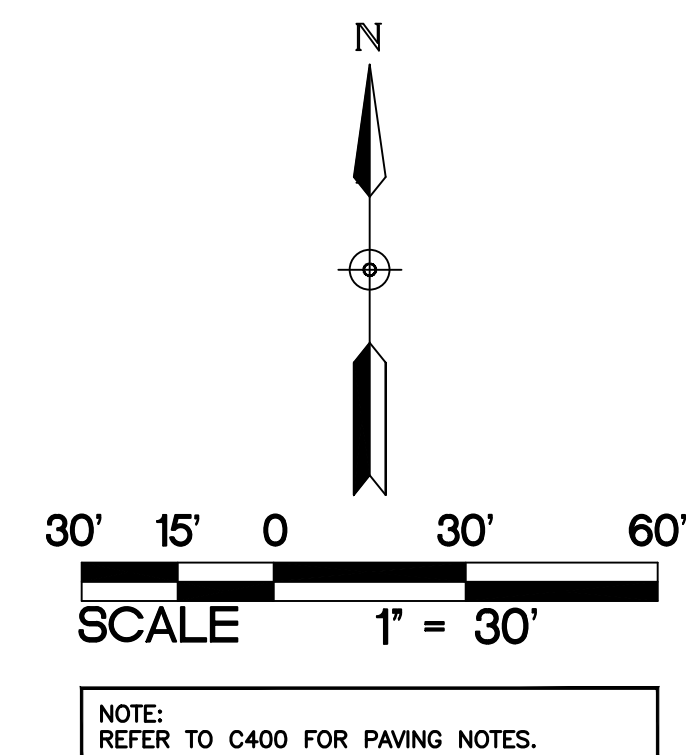
KEYED NOTES

KEYED NOTES ARE DENOTED BY [KEY] ON PLAN.

- 11 INSTALL CONCRETE DRIVE ENTRANCE. REFER TO DETAIL 1/C502.
- 2 INSTALL B618 CONCRETE CURB AND GUTTER. REFER TO DETAIL 2/C502.
- 3 INSTALL NEW BITUMINOUS PAVEMENT TO MATCH EXISTING PAVEMENT CROSS SECTION IN BOTH STREET. REFER TO DETAIL 3/C400.
- 7 INSTALL CONCRETE WALK. REFER TO DETAIL 10/C502.
- 8 STRIPE LANE DELINEATION, 4" WIDE AND WHITE IN COLOR.
- 9 PAINT TRAFFIC ARROW AND VERBIAGE AS SHOWN, WHITE IN COLOR.
- 11 PAINT PARKING LOT STRIPING AND NO PARKING AREA, 4" WIDE STRIPES, WHITE IN COLOR. STRIPING FOR CROSS HATCH SHALL BE AS SHOWN SPACED 3' APART.
- 14 PROVIDE 6-INCH DEPTH BITUMINOUS RECLAMATION AND SUBCUT SUBGRADE TO PROVIDE NEW 4-INCH BITUMINOUS SECTION. REFER TO DETAIL 12/C501 FOR NEW BITUMINOUS SECTION.
- 19 INSTALL ACCESSIBLE PARKING SIGN. REFER TO DETAIL 13/C502.
- 20 INSTALL NO PARKING ANY TIME SIGN. REFER TO DETAIL 13/C502.
- 22 INSTALL BITUMINOUS PATH TO MATCH EXISTING BITUMINOUS PATH SECTION. REFER TO DETAIL 2/C400.
- 24 STRIPE STOP BAR, 24" WIDE AND WHITE IN COLOR WITH 4" BLACK STRIPES TO EITHER SIDE WHEN PLACED ON CONCRETE.
- 28 INSTALL PEDESTRIAN CURB RAMP. REFER TO MN/DOT STANDARD PLANS ON C503. PEDESTRIAN CURB RAMP TO BITUMINOUS TRAILS SHALL USE GRADED FLARES WHEN NOT ADJACENT TO A WALKABLE SURFACE.
- 30 STRIPE DASHED LANE DELINEATION, 4" WIDE, 2-FOOT SOLID, 6-FOOT GAP, AND WHITE IN COLOR.

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CONC	Concrete
ELEV	Elevation
EX	Existing
FTE	Finished Floor Elevation
LFE	Lower Floor Elevation
MAX	Maximum
MIN	Minimum
R	Radius
TYP	Typical
MN MUTCD	Minnesota Manual on Uniform Traffic Control Devices

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
BITUMINOUS RESURFACING	[Pattern]
CONCRETE SIDEWALK	[Pattern]
PARKING STALL COUNT	[14]



PAVING AND GEOMETRIC PLAN

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

PROJECT: 23270
DRAWN BY: WH
CHECKED BY: KAB
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REVISIONS:

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#1: PRICING
SET

C402

SO Wash CO SCHOOLS

K A

KRAUS-ANDERSON CONSTRUCTION COMPANY
901 SOUTH EIGHTH STREET, MINNEAPOLIS, MN 55404
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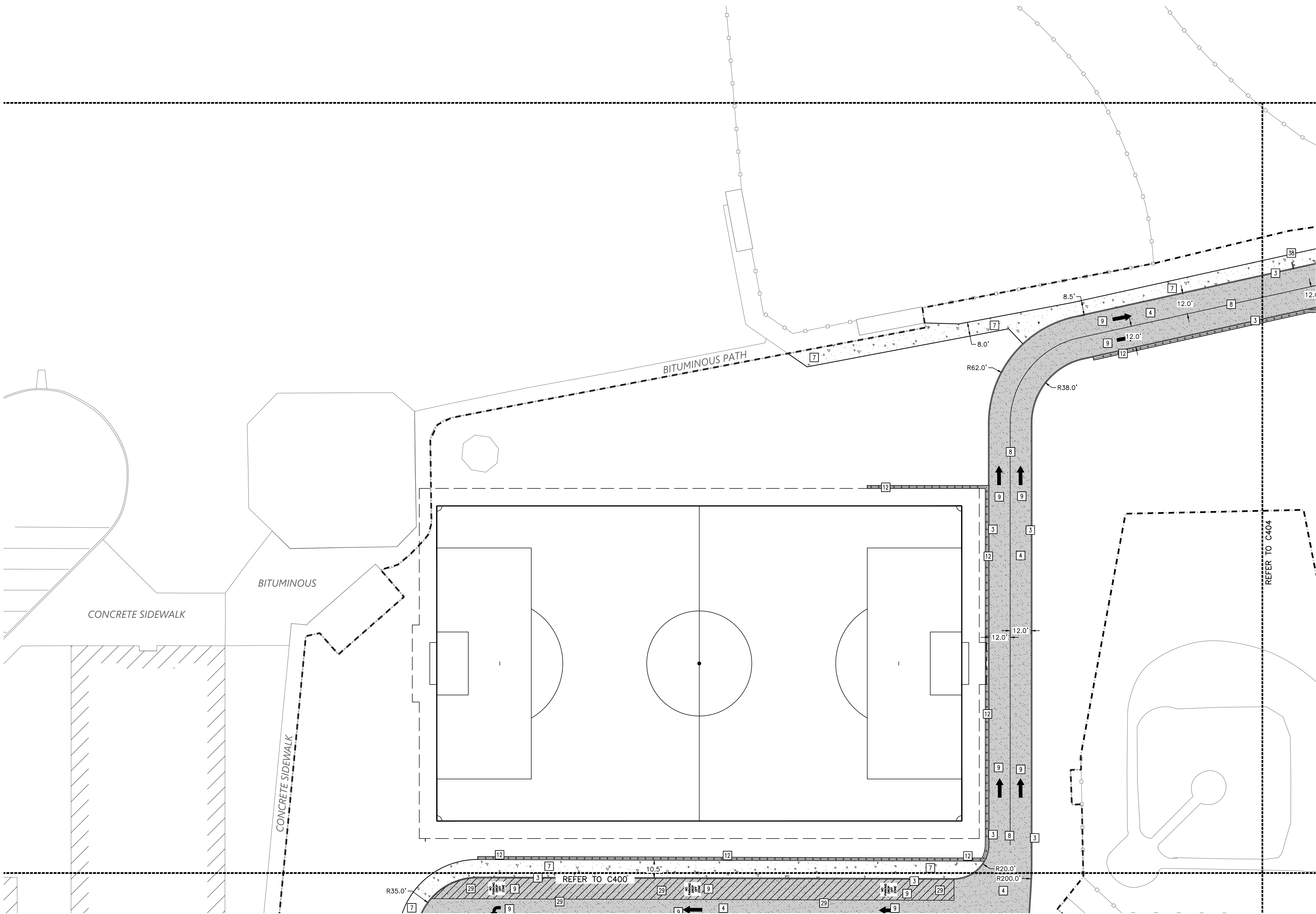
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MN.

Kevin A. Bohl
Date: 11-1-2024 License Number: 52209

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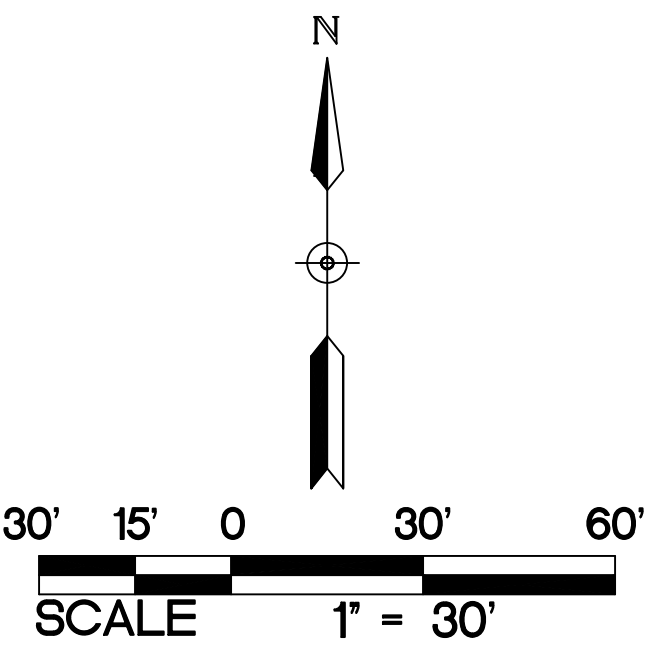
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BKBM Project No. 24222.50



1
C403 PAVING AND GEOMETRIC PLAN
1" = 30'

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
FENCE	---
HEAVY DUTY BITUMINOUS PAVEMENT	[Pattern]
CONCRETE PAVEMENT/SIDEWALK	[Pattern]



NOTE:
REFER TO C400 FOR PAVING NOTES.

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CONC	Concrete
ELEV	Elevation
EX	Existing
FFE	Finished Floor Elevation
LFE	Lower Floor Elevation
MAX	Maximum
MIN	Minimum
R	Radius
TYP.	Typical
MMUTCD	Minnesota Manual on Uniform Traffic Control Devices

KEYED NOTES

KEYED NOTES ARE DENOTED BY [NO] ON PLAN.

[3] INSTALL B612 CONCRETE CURB AND GUTTER. REFER TO DETAIL 3/C502.

[4] INSTALL HEAVY-DUTY BITUMINOUS PAVEMENT. REFER TO DETAIL 7/C502.

[7] INSTALL CONCRETE WALK. REFER TO DETAIL 10/C502.

[8] STRIPE LANE DELINEATION, 4" WIDE AND WHITE IN COLOR.

[9] PAINT TRAFFIC ARROW AND VERBIAGE AS SHOWN, WHITE IN COLOR.

[12] INSTALL FENCE WITH CONCRETE MAINTENANCE STRIP. REFER TO DETAIL 14/C502 FOR MAINTENANCE STRIP. REFER TO LANDSCAPE PLANS AND SPECIFICATIONS FOR FENCING.

[20] PAINT PARKING LOT NO PARKING AREA, 4" WIDE STRIPES, BLUE IN COLOR. STRIPING FOR CROSS HATCH SHALL BE AS SHOWN SPACED 3' APART.

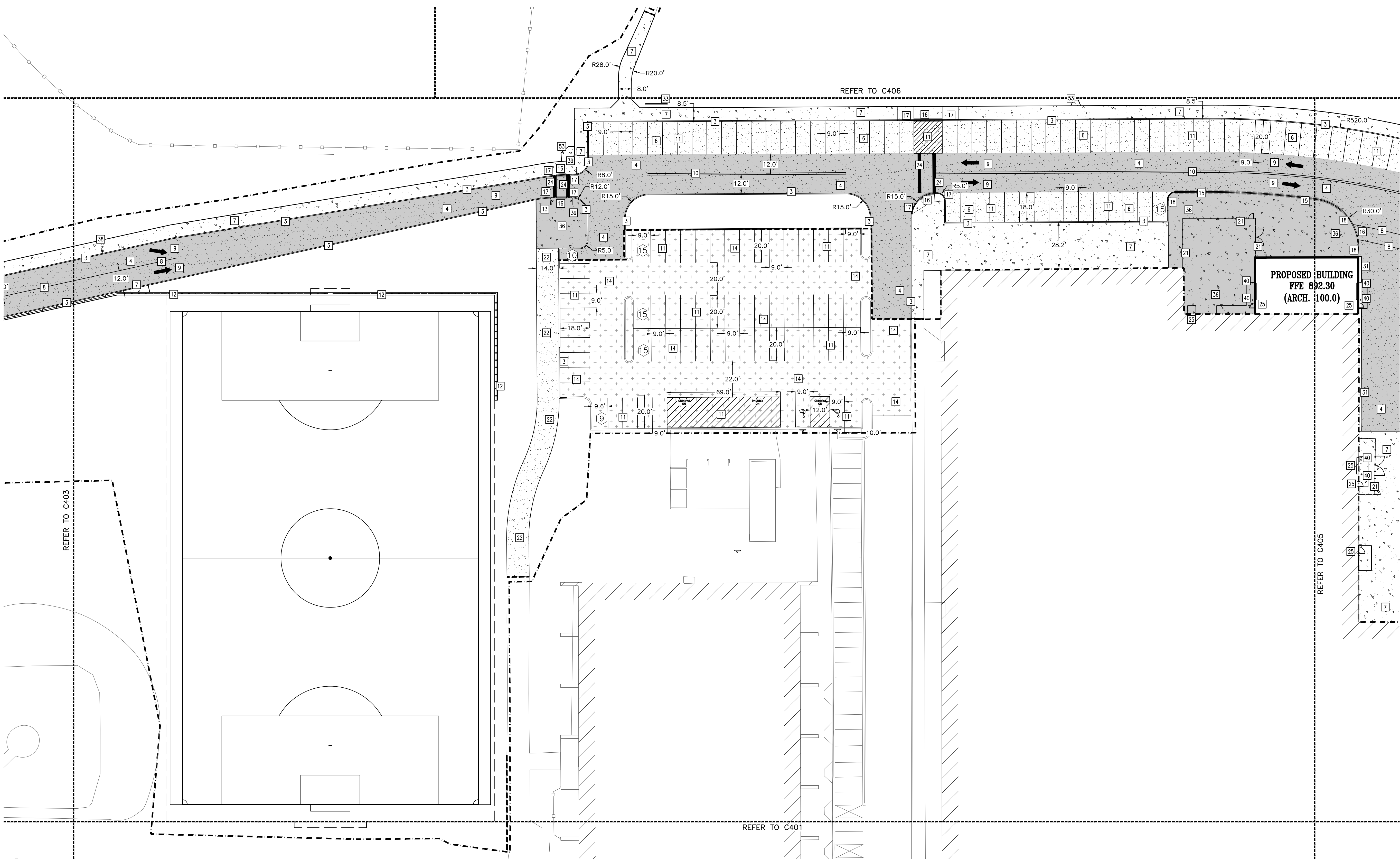
PAVING AND GEOMETRIC PLAN

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

PROJECT: 23270
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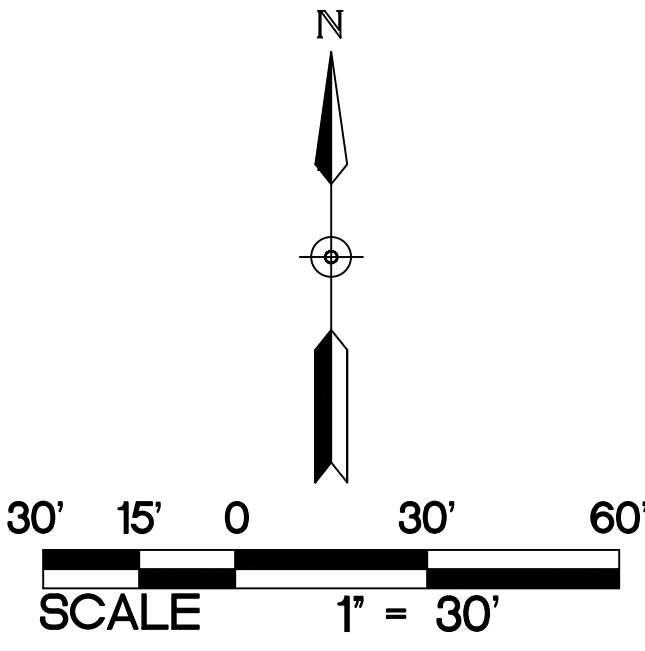


1
C404 PAVING AND GEOMETRIC PLAN
1" = 30'

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CB	Catch Basin
CONC	Concrete
DIP	Ductile Iron Pipe
ELEV	Elevation
EX	Existing
FFE	Finished Floor Elevation
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
FENCE	---
LIGHT DUTY BITUMINOUS PAVEMENT	[Pattern]
HEAVY DUTY BITUMINOUS PAVEMENT	[Pattern]
BITUMINOUS RESURFACING	[Pattern]
CONCRETE SIDEWALK	[Pattern]
CONCRETE PAVEMENT	[Pattern]
FLAT CURB AND GUTTER	[Pattern]
SURMOUNTABLE CURB AND GUTTER	[Pattern]
PEDESTRIAN CURB RAMP	[Symbol]
ACCESSIBLE PARKING SYMBOL	[Symbol]
SIGN	[Symbol]
PARKING STALL COUNT	[Symbol]

- KEYED NOTES
- KEYED NOTES ARE DENOTED BY **NO** ON PLAN.
- 3 INSTALL B612 CONCRETE CURB AND GUTTER. REFER TO DETAIL 3/C502.
- 4 INSTALL HEAVY-DUTY BITUMINOUS PAVEMENT. REFER TO DETAIL 7/C502.
- 6 INSTALL LIGHT-DUTY BITUMINOUS PAVEMENT. REFER TO DETAIL 6/C502.
- 7 INSTALL CONCRETE WALK. REFER TO DETAIL 10/C502.
- 8 STRIPE LANE DELINEATION, 4" WIDE AND WHITE IN COLOR.
- 9 PAINT TRAFFIC ARROW AND VERBIAGE AS SHOWN, WHITE IN COLOR.
- 10 STRIPE DOUBLE LANE DELINEATION, 4" WIDE AND YELLOW IN COLOR.
- 11 PAINT PARKING LOT STRIPING AND NO PARKING AREA, 4" WIDE STRIPES, WHITE IN COLOR. STRIPING FOR CROSS HATCH SHALL BE AS SHOWN SPACED 3' APART.
- 12 INSTALL FENCE WITH CONCRETE MAINTENANCE STRIP. REFER TO DETAIL 14/C502 FOR MAINTENANCE STRIP. REFER TO LANDSCAPE PLANS AND SPECIFICATIONS FOR FENCING.
- 13 INSTALL STOP SIGN. REFER TO DETAIL 13/C502.
- 14 PROVIDE 6-INCH DEPTH BITUMINOUS RECLAMATION AND SUBCUT SUBGRADE TO PROVIDE NEW 4-INCH BITUMINOUS SECTION. REFER TO DETAIL 12/C501 FOR NEW BITUMINOUS SECTION.
- 15 INSTALL SURMOUNTABLE CONCRETE CURB AND GUTTER. REFER TO DETAIL 12/C502.
- 16 INSTALL FLAT CURB. REFER TO DETAIL 4/C502.
- 17 INSTALL NOSE-DOWN CURB SECTION. REFER TO DETAIL 5/C502.
- 18 PROVIDE 10-FOOT TRANSITION BETWEEN CURB TYPES.
- 21 INSTALL FENCE. REFER TO LANDSCAPE PLANS AND SPECIFICATIONS FOR FENCING.
- 22 INSTALL BITUMINOUS PATH. REFER TO DETAIL 9/C502.
- 24 STRIPE STOP BAR, 24" WIDE AND WHITE IN COLOR WITH 4" BLACK STRIPES TO EITHER SIDE WHEN PLACED ON CONCRETE.
- 25 STOOP. REFER TO STRUCTURAL PLANS AND DETAILS.
- 31 INSTALL CONCRETE MAINTENANCE STRIP. REFER TO DETAIL 11/C501.
- 32 INSTALL SALVAGED GRANVILLE O. SMITH FIELD HOME OF WOLFPACK BASEBALL SIGN. COORDINATE WITH SCHOOL DISTRICT FOR EXACT LOCATION.
- 36 INSTALL CONCRETE PAVEMENT. REFER TO DETAIL 8/C502.
- 38 INSTALL LEFT LANE ENDS MERGE RIGHT PARKING SIGN. REFER TO DETAIL 13/C502.
- 39 INSTALL DO NOT ENTER SIGN. REFER TO DETAIL 13/C502.
- 53 INSTALL CONCRETE HYDRANT PAD. REFER TO DETAIL 4/C400.



NOTE:
REFER TO C400 FOR PAVING NOTES.

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CONC	Concrete
ELEV	Elevation
EX	Existing
FFE	Finished Floor Elevation
LFE	Lower Floor Elevation
MAX	Maximum
MIN	Minimum
R	Radius
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Date: 11-1-2024 License Number: 52209

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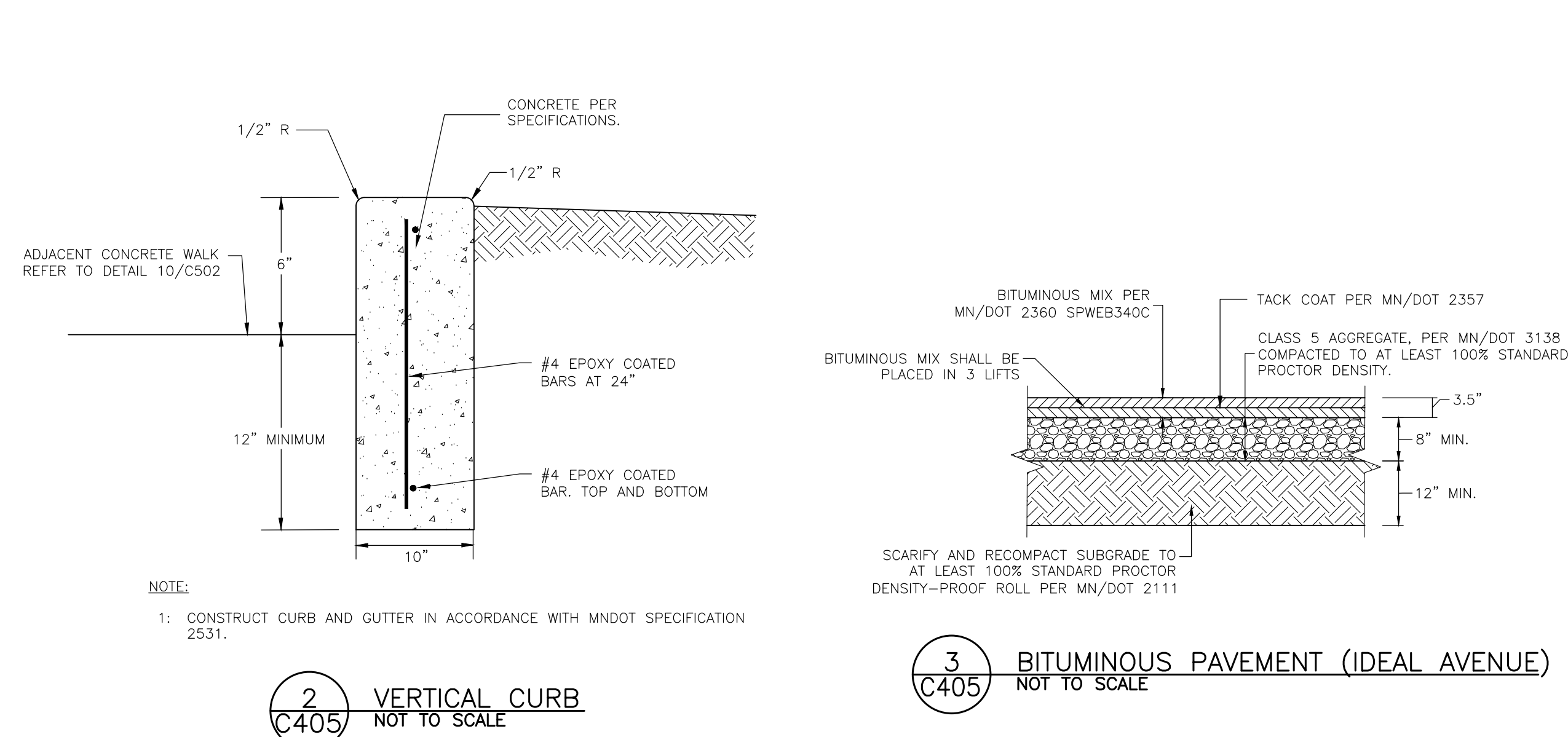
PAVING AND GEOMETRIC PLAN

PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016

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DRAWN BY: WH
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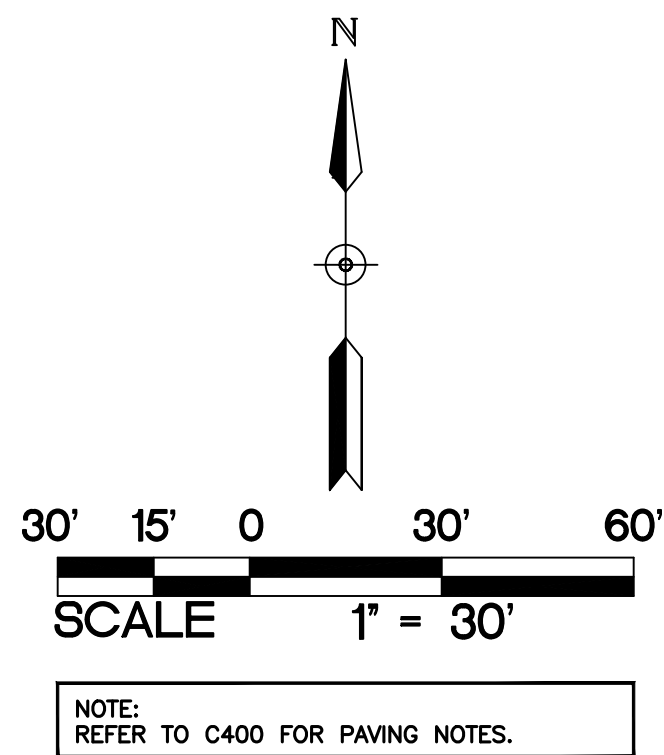
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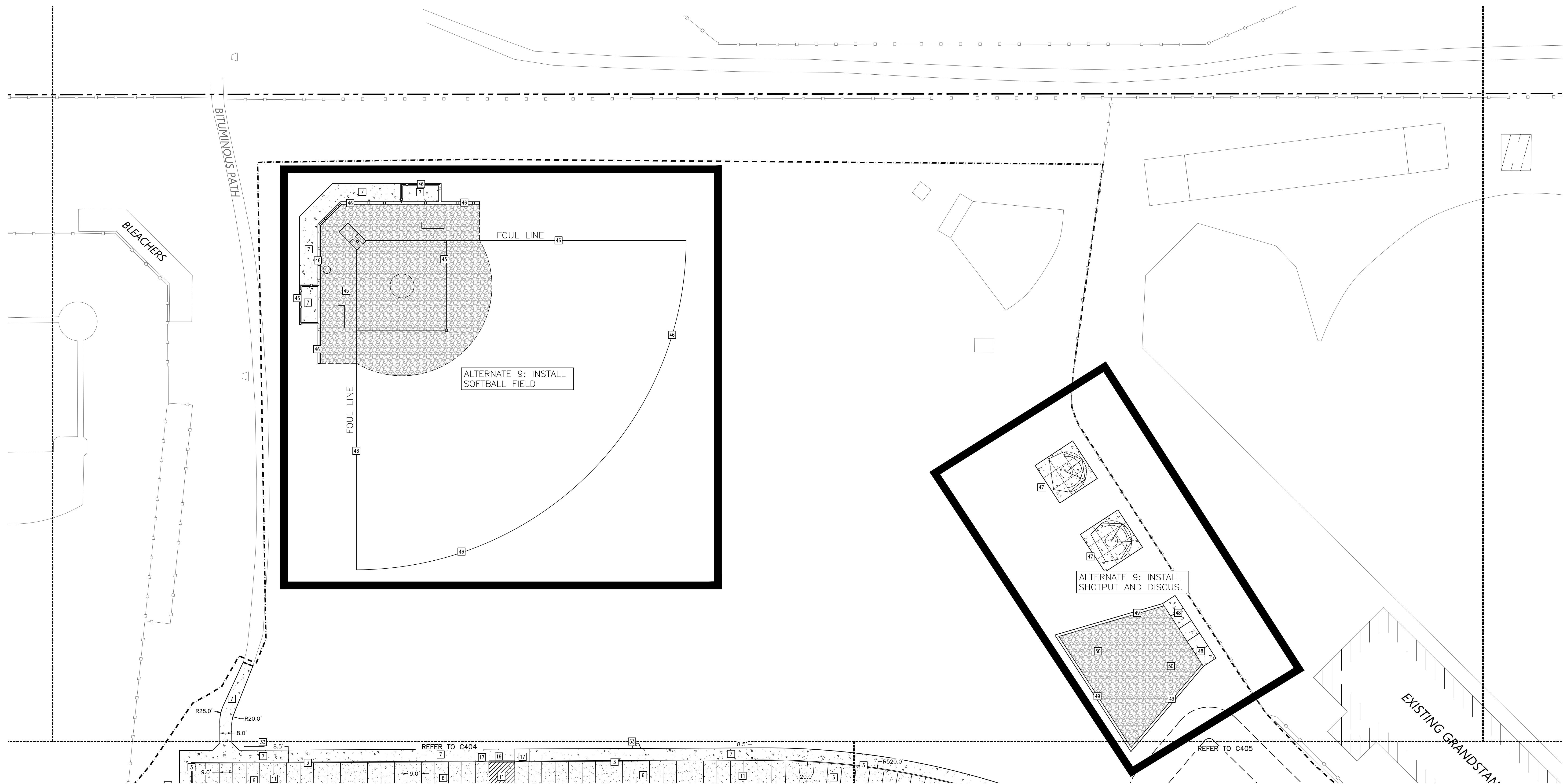


PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	=====
PROPERTY LINE	=====
SAWCUT LINE (APPROX.)	-----
FENCE	=====
LIGHT DUTY BITUMINOUS PAVEMENT	
HEAVY DUTY BITUMINOUS PAVEMENT	
BITUMINOUS RESURFACING	
CONCRETE PAVEMENT/SIDEWALK	
FLAT CURB AND GUTTER	
SURMOUNDED CURB AND GUTTER	
ACCESSIBLE PARKING SYMBOL	
SIGN	
PARKING STALL COUNT	

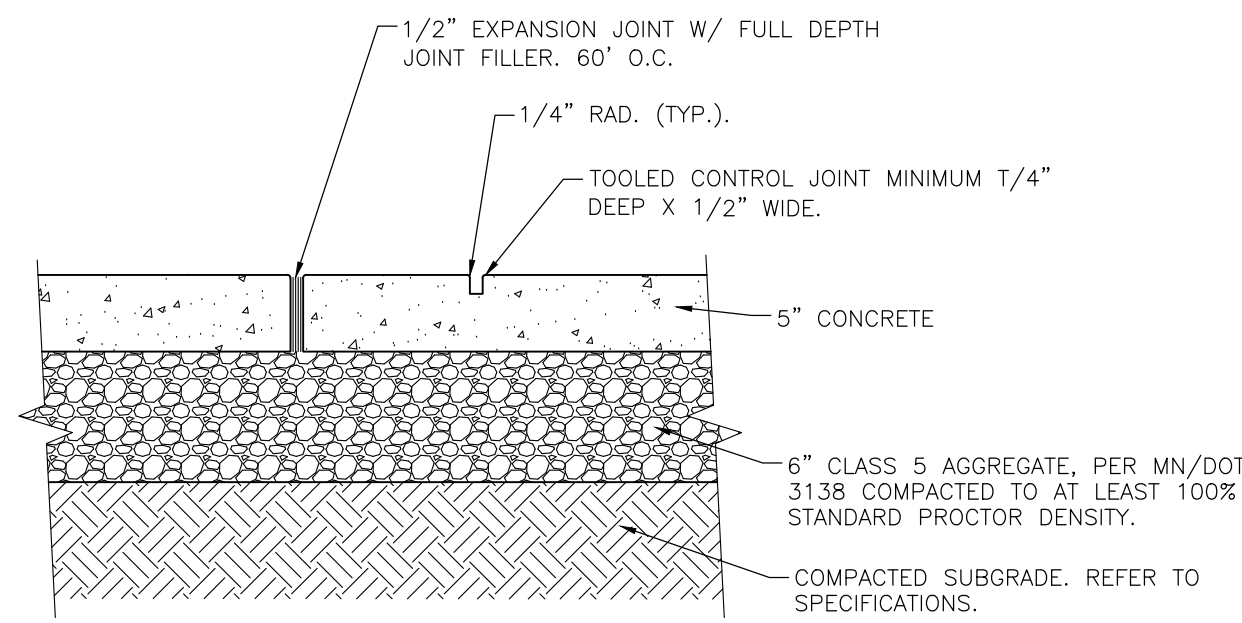
ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CONC	Concrete
ELEV	Elevation
EX	Existing
FFE	Finished Floor Elevation
LFE	Lower Floor Elevation
MAX	Maximum
MIN	Minimum
R	Radius
TYP.	Typical
MN MUTCD	Minnesota Manual on Uniform Traffic Control Devices



C405

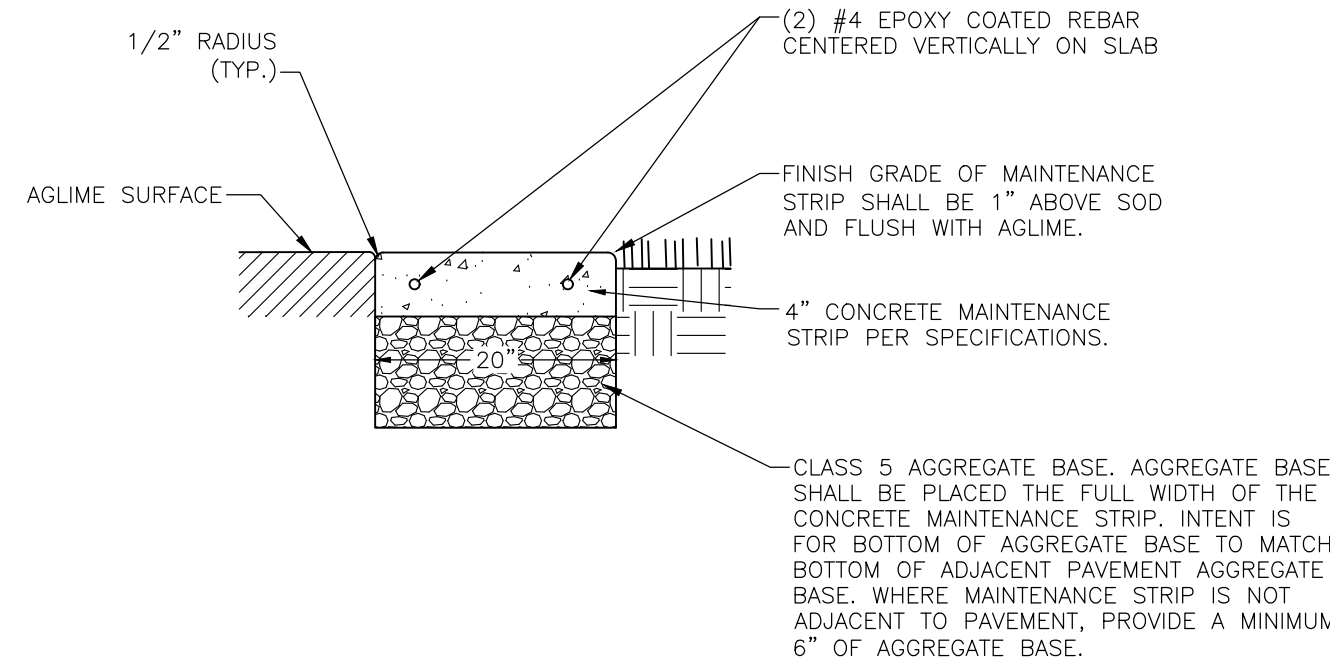


1 PAVING AND GEOMETRIC PLAN
1" = 30'



NOTE:
1: JOINT SPACING SHALL BE A MAXIMUM OF 10-FEET ON CENTER.
2: NO CONTROL JOINTS WITHIN THROWING CIRCLE WILL BE ALLOWED.

2 CONCRETE SLAB — DISCUS AND SHOT PUT
NOT TO SCALE



3 CONCRETE MAINTENANCE STRIP — SHOT PUT
NOT TO SCALE

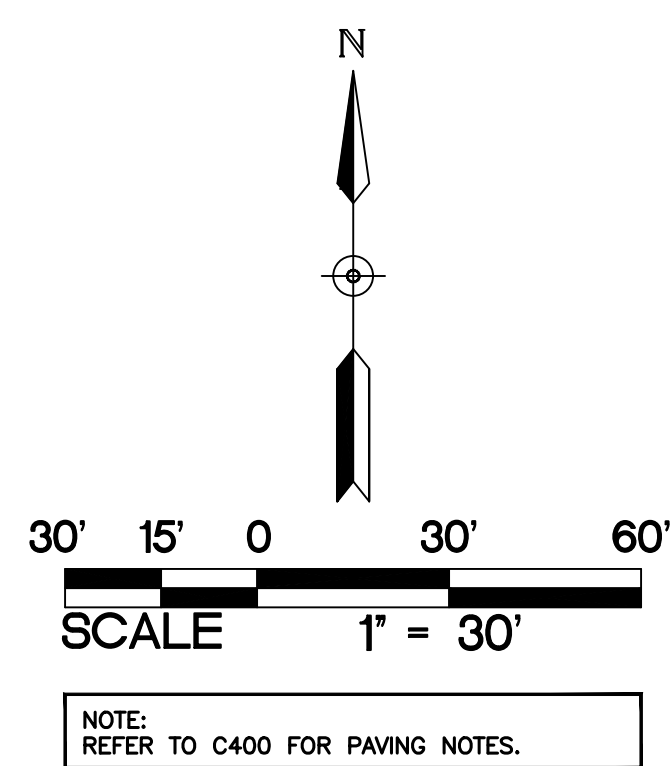
KEYED NOTES

KEYED NOTES ARE DENOTED BY [] ON PLAN.

- INSTALL B612 CONCRETE CURB AND GUTTER. REFER TO DETAIL 3/C502.
- INSTALL LIGHT-DUTY BITUMINOUS PAVEMENT. REFER TO DETAIL 6/C502.
- INSTALL CONCRETE WALK. REFER TO DETAIL 10/C502.
- PAINT PARKING LOT STRIPING AND NO PARKING AREA. 4" WIDE STRIPES, WHITE IN COLOR. STRIPING FOR CROSS HATCH SHALL BE AS SHOWN SPACED 3' APART.
- INSTALL FLAT CURB. REFER TO DETAIL 4/C502.
- INSTALL NOSE-DOWN CURB SECTION. REFER TO DETAIL 5/C502.
- INSTALL AGGREGATE LIMESTONE. REFER TO LANDSCAPE PLANS FOR LAYOUT AND EXTENTS.
- INSTALL SOFTBALL FIELD. REFER TO LANDSCAPE PLANS AND SPECIFICATIONS. REFER TO DETAIL 14/C502 FOR MAINTENANCE STRIP WHERE PERMANENT FENCE IS INSTALLED.
- INSTALL DISCUS THROW. REFER TO DETAIL 2/C406 FOR CONCRETE SLAB. JOINT CONCRETE AS SHOWN. NO CONTROL JOINTS WITHIN THROWING CIRCLE WILL BE ALLOWED. REFER TO LANDSCAPE PLANS.
- INSTALL SHOT PUT. REFER TO DETAIL 2/C406 FOR CONCRETE SLAB AND LANDSCAPE PLANS FOR THROWING RING. JOINT CONCRETE AS SHOWN. NO CONTROL JOINTS WITHIN THROWING CIRCLE WILL BE ALLOWED.
- INSTALL CONCRETE MAINTENANCE STRIP. REFER TO DETAIL 3/C406.
- INSTALL CRUSHED AGGREGATE LIMESTONE TO A DEPTH OF 8-INCHES TO THE EXTENTS SHOWN.

ABBREVIATIONS	
BLDG	Building
BM	Benchmark
CONC	Concrete
ELEV	Elevation
EX	Existing
FFE	Finished Floor Elevation
LFE	Lower Floor Elevation
MAX	Maximum
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PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
BITUMINOUS PAVEMENT	[Pattern]
CONCRETE PAVEMENT/SIDEWALK	[Pattern]
SURMOUNTABLE CURB AND GUTTER	[Pattern]

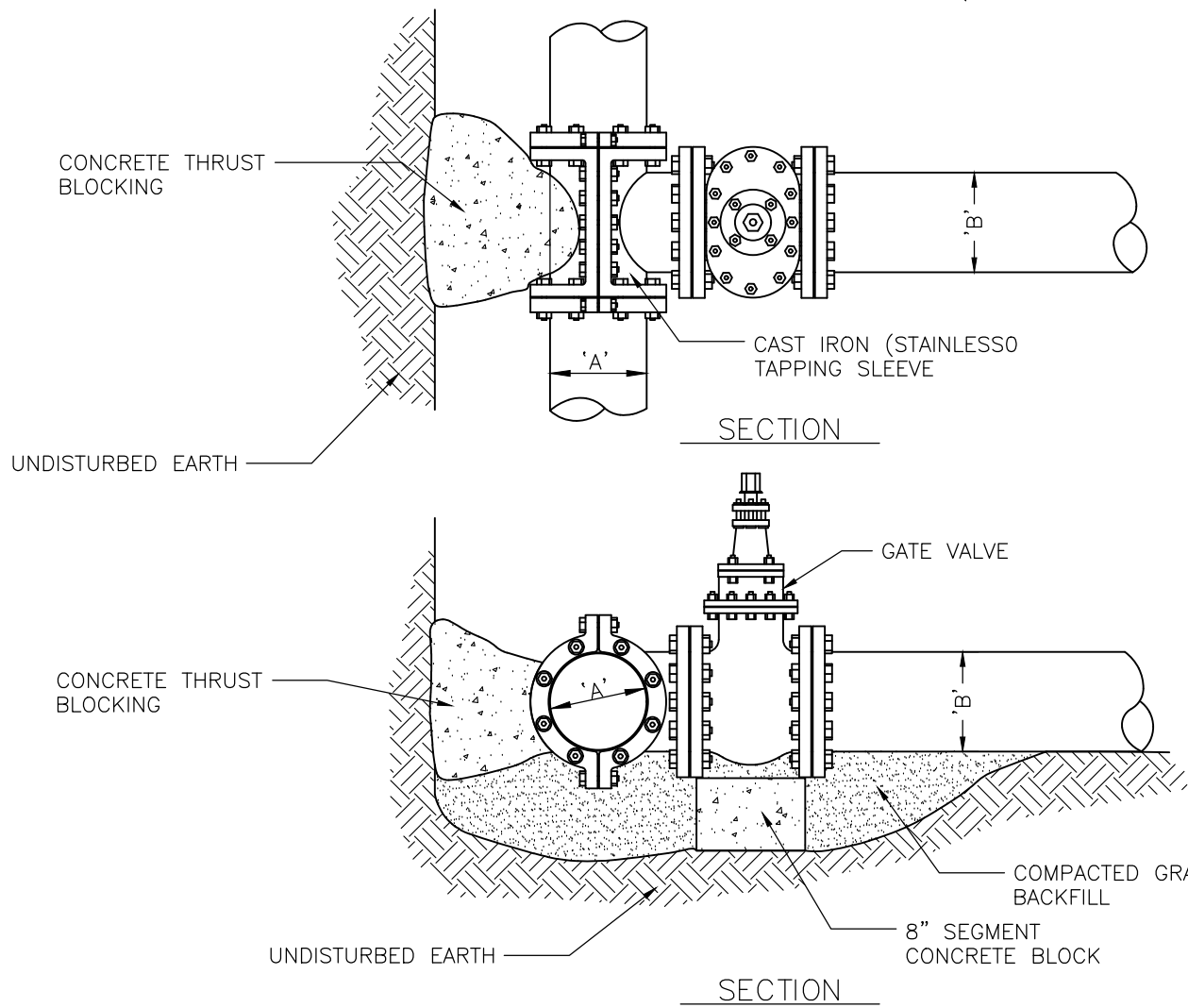


NOTE:
REFER TO C400 FOR PAVING NOTES.

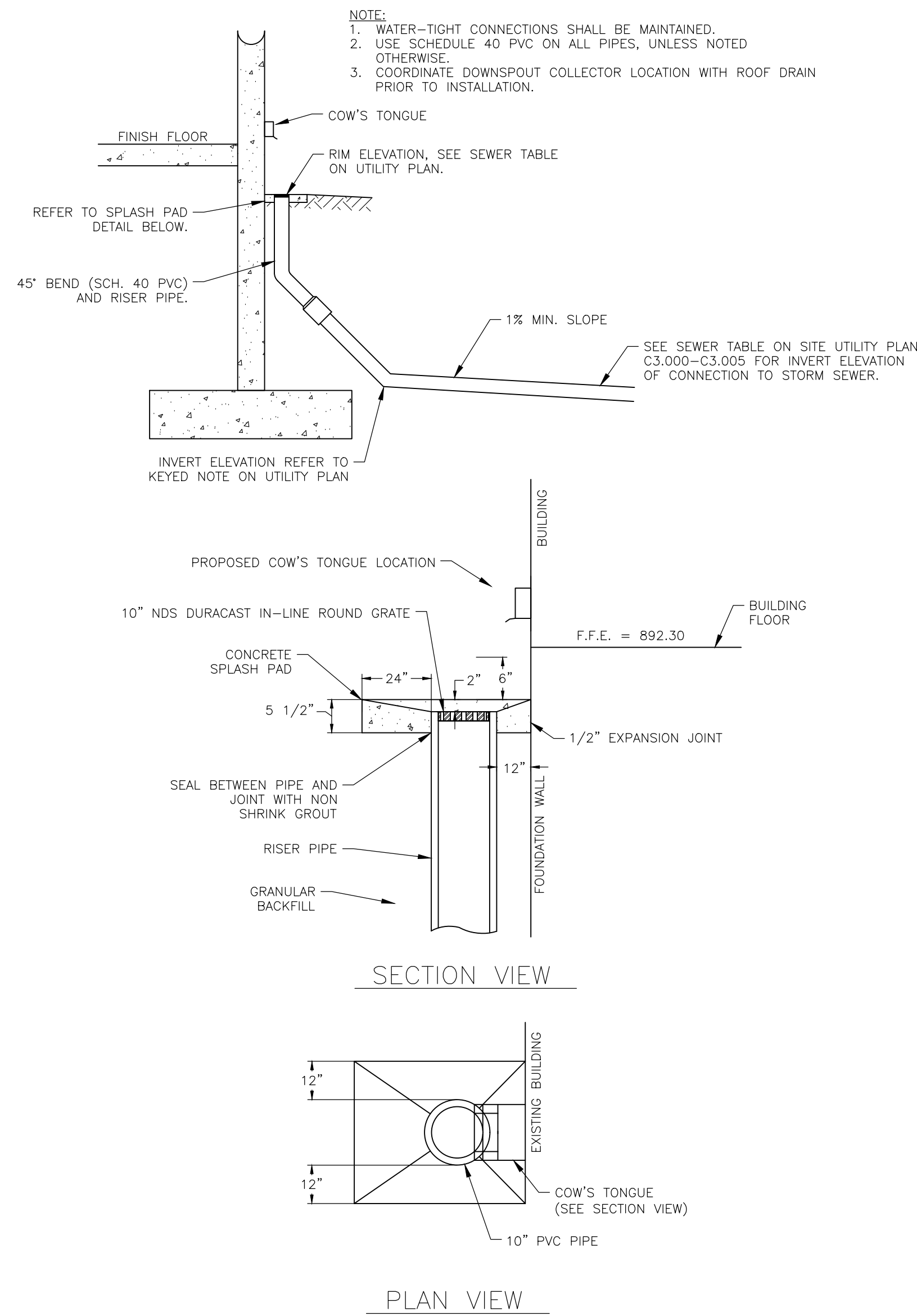
BRANCH PIPE "B"	EXISTING PIPE "A"									
	12"	16"	18"	24"	30"	36"	42"	48"	60"	72"
12"	C,D	C,D	C	C	C	C	C	C	C	C
16"	C,D	C,D	C,D	C	C	C	C	C	C	C
18"	C,D	C,D	C,D	C,D	C	C	C	C	C	C
24"	C,D	C,D	C,D	C,D	C,D	C	C	C	C	C
30"	C,D	C,D	C,D	C,D	C,D	C,D	C	C	C	C
36"	C,D	C,D	C,D	C,D	C,D	C,D	C,D	C	C	C
42"	C,D	C,D	C,D	C,D	C,D	C,D	C,D	C,D	C	C
48"	C,D	C,D	C,D	C,D	C,D	C,D	C,D	C,D	C,D	C
60"	C,D	C,D	C,D	C,D	C,D	C,D	C,D	C,D	C,D	C,D
72"	C,D	C,D	C,D	C,D	C,D	C,D	C,D	C,D	C,D	C,D

C = CLOW F-5205, TOW A212A OR EQUAL.
FULL CAST IRON TAPPING SLEEVE.
D = KENNEDY SQUARESEAL OR EQUAL.
CAST IRON TAPPING SLEEVE.

NOTE:
STAINLESS TAPPING SLEEVES
ALLOWED AS EQUAL.

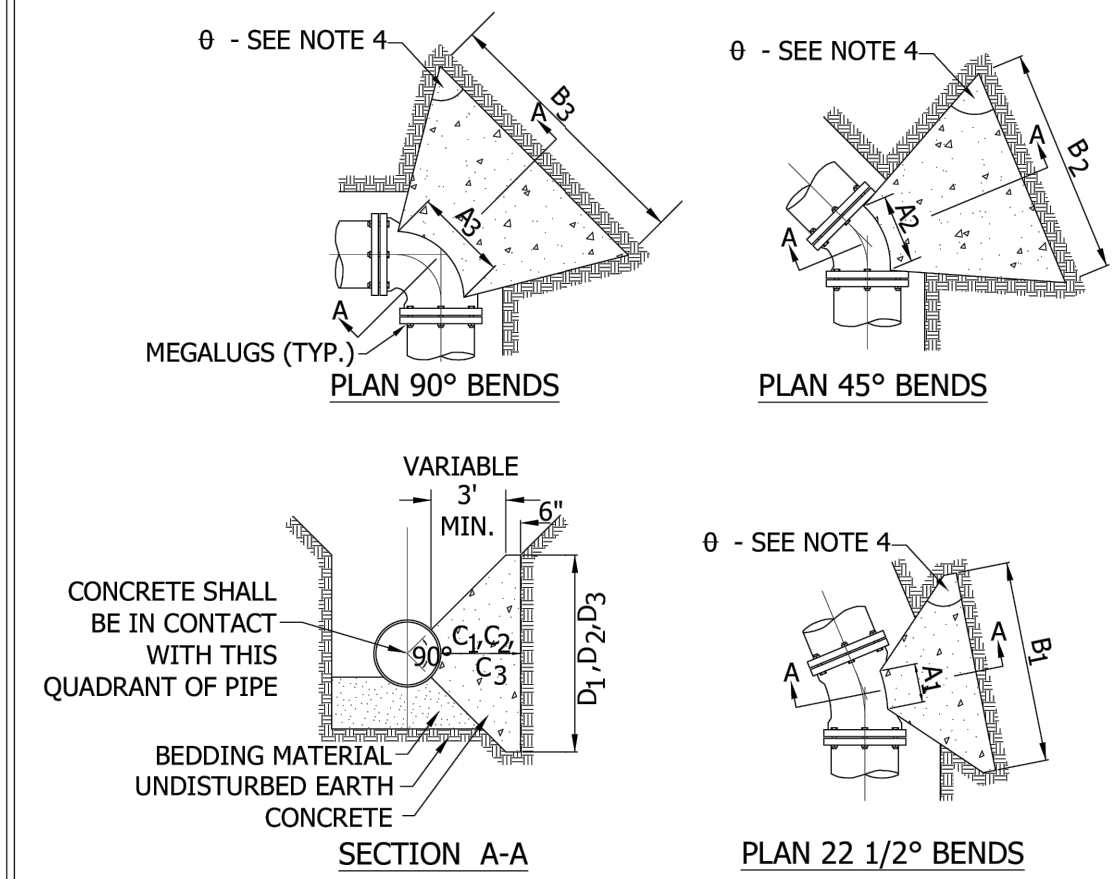


13 WATERMAIN WET TAP (TYP.) C500 NOT TO SCALE



14 COW'S TONGUE DRAIN WITH SPLASH PAD AND CASTING C500 NOT TO SCALE

PIPE SIZE	BUTTRESS DIMENSIONS					
	22 1/2" BEND	45° BEND	90° BEND	180° BEND	270° BEND	360° BEND
6"	B1	D1	B2	D2	B3	D3
8"	---	---	---	---	2'-4"	1'-6"
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"

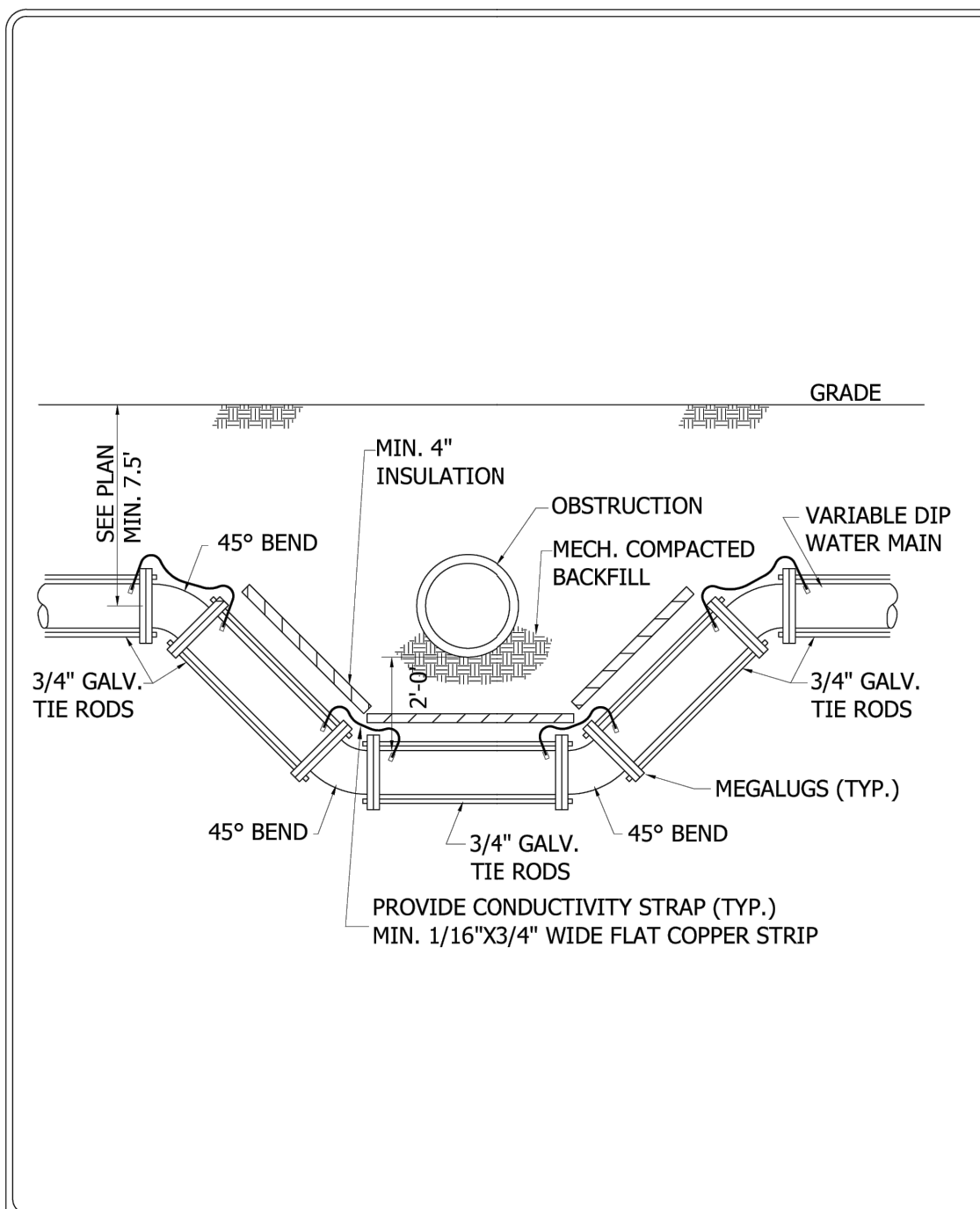


Cottage Grove
Where Pride and Prosperity Meet

STANDARD DETAILS
CONCRETE THRUST BLOCKING
COTTAGE GROVE, MINNESOTA

JANUARY 2024
PLATE NO.
WAT-6

10 THRUST BLOCKING C500 NOT TO SCALE

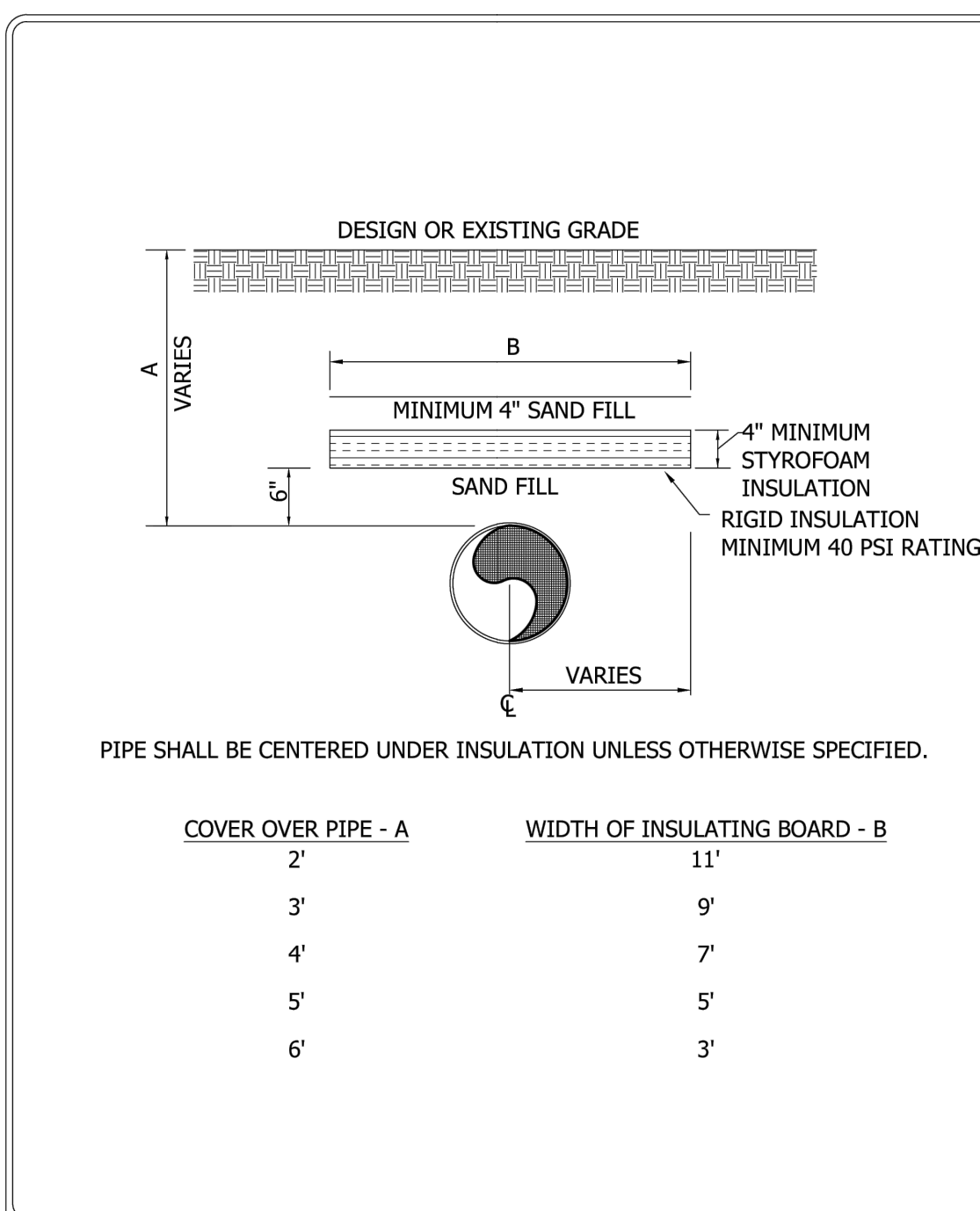


Cottage Grove
Where Pride and Prosperity Meet

STANDARD DETAILS
WATER MAIN OFFSET
COTTAGE GROVE, MINNESOTA

JANUARY 2024
PLATE NO.
WAT-7

11 WATERMAIN OFFSET C500 NOT TO SCALE

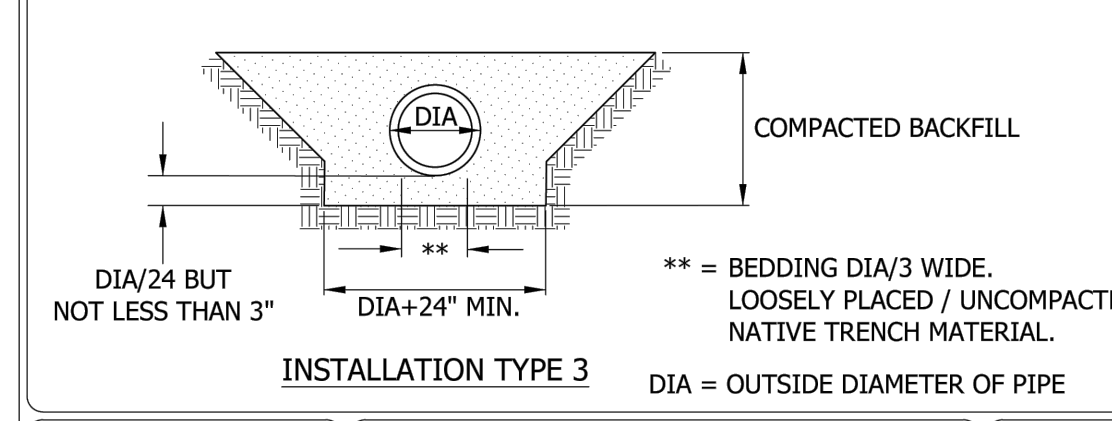
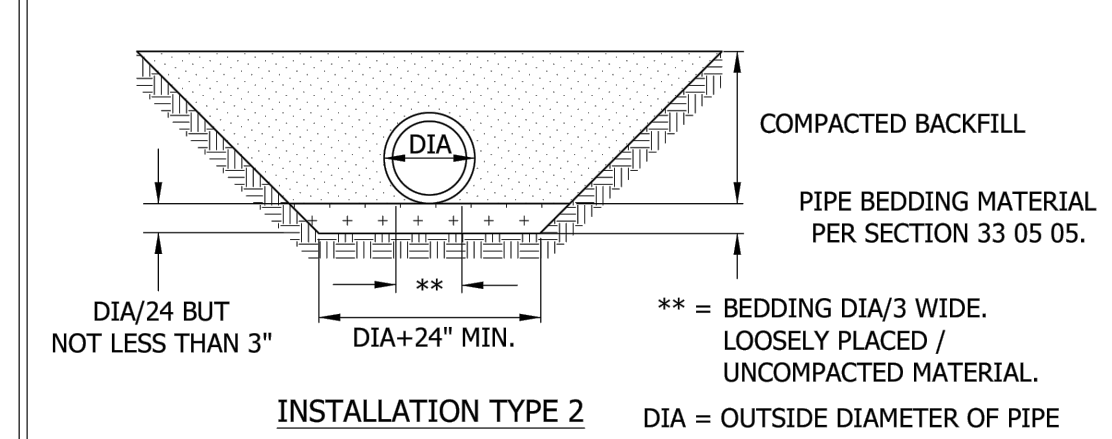
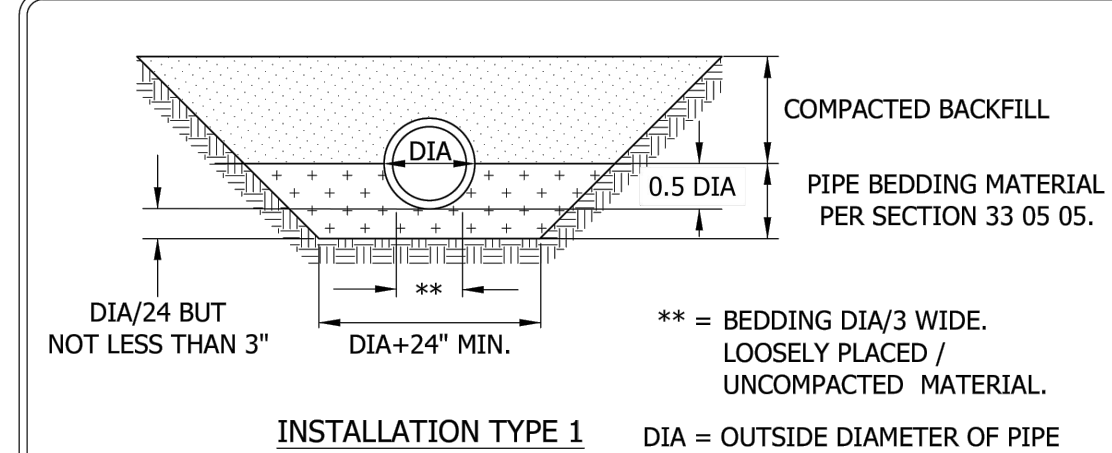


Cottage Grove
Where Pride and Prosperity Meet

STANDARD DETAILS
INSULATION DETAIL
COTTAGE GROVE, MINNESOTA

JANUARY 2024
PLATE NO.
WAT-9

12 INSULATION DETAIL C500 NOT TO SCALE

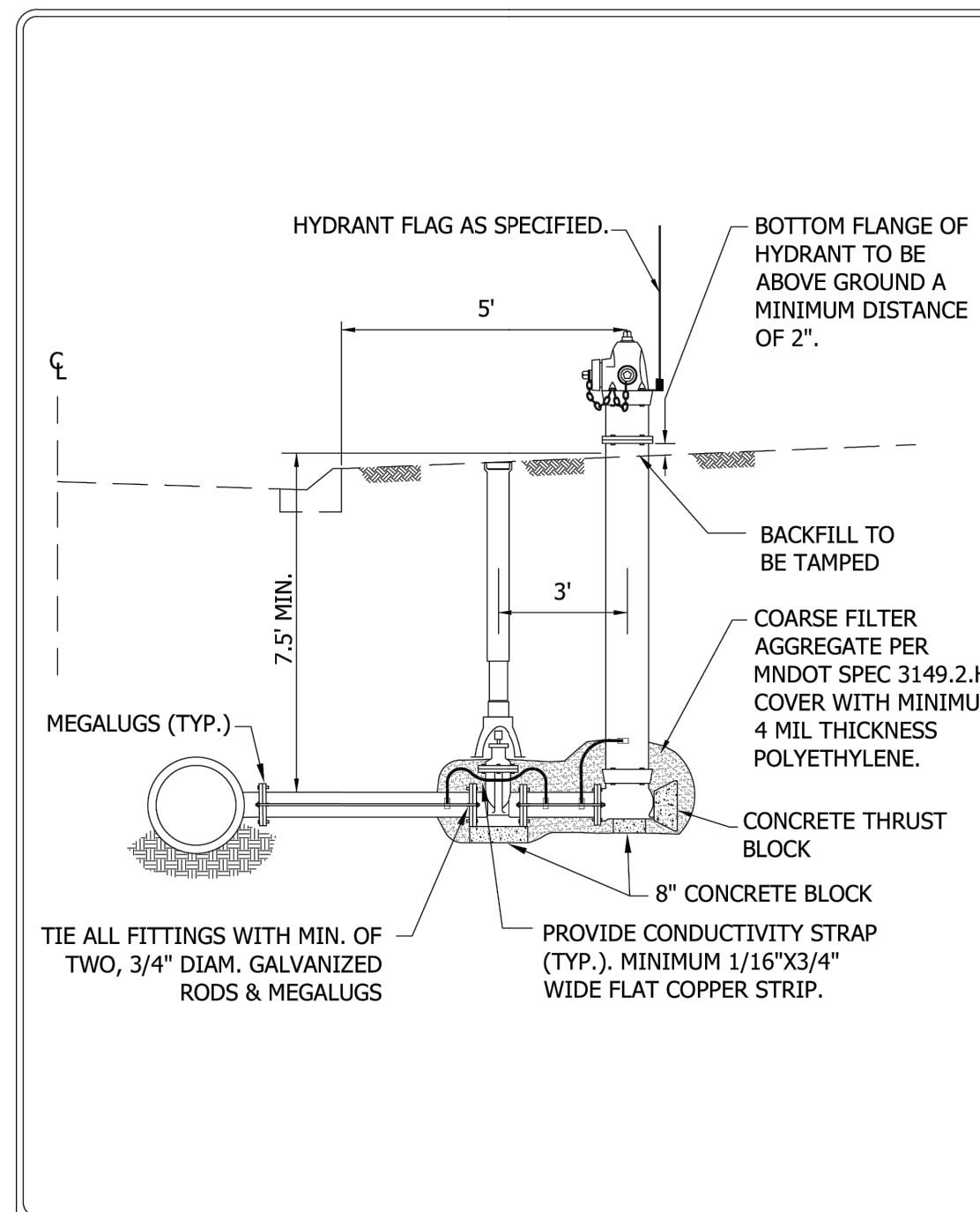


Cottage Grove
Where Pride and Prosperity Meet

STANDARD DETAILS
PIPE FOUNDATION & BEDDING METHODS FOR RCP & DIP
COTTAGE GROVE, MINNESOTA

JANUARY 2024
PLATE NO.
BED-2

7 PIPE BEDDING - DIP & RCP C500 NOT TO SCALE

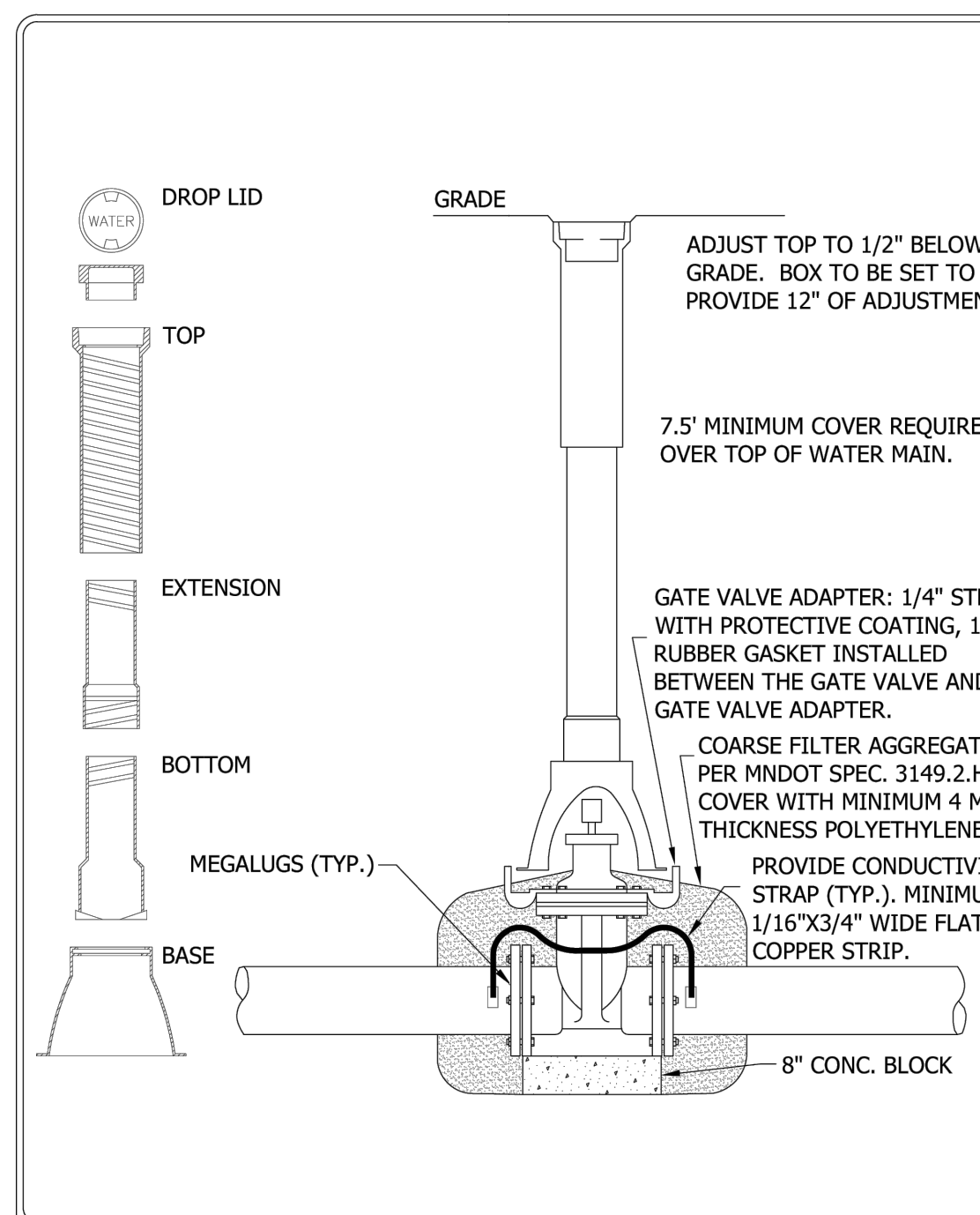


Cottage Grove
Where Pride and Prosperity Meet

STANDARD DETAILS
HYDRANT DETAIL
COTTAGE GROVE, MINNESOTA

JANUARY 2024
PLATE NO.
WAT-1

8 HYDRANT DETAIL C500 NOT TO SCALE

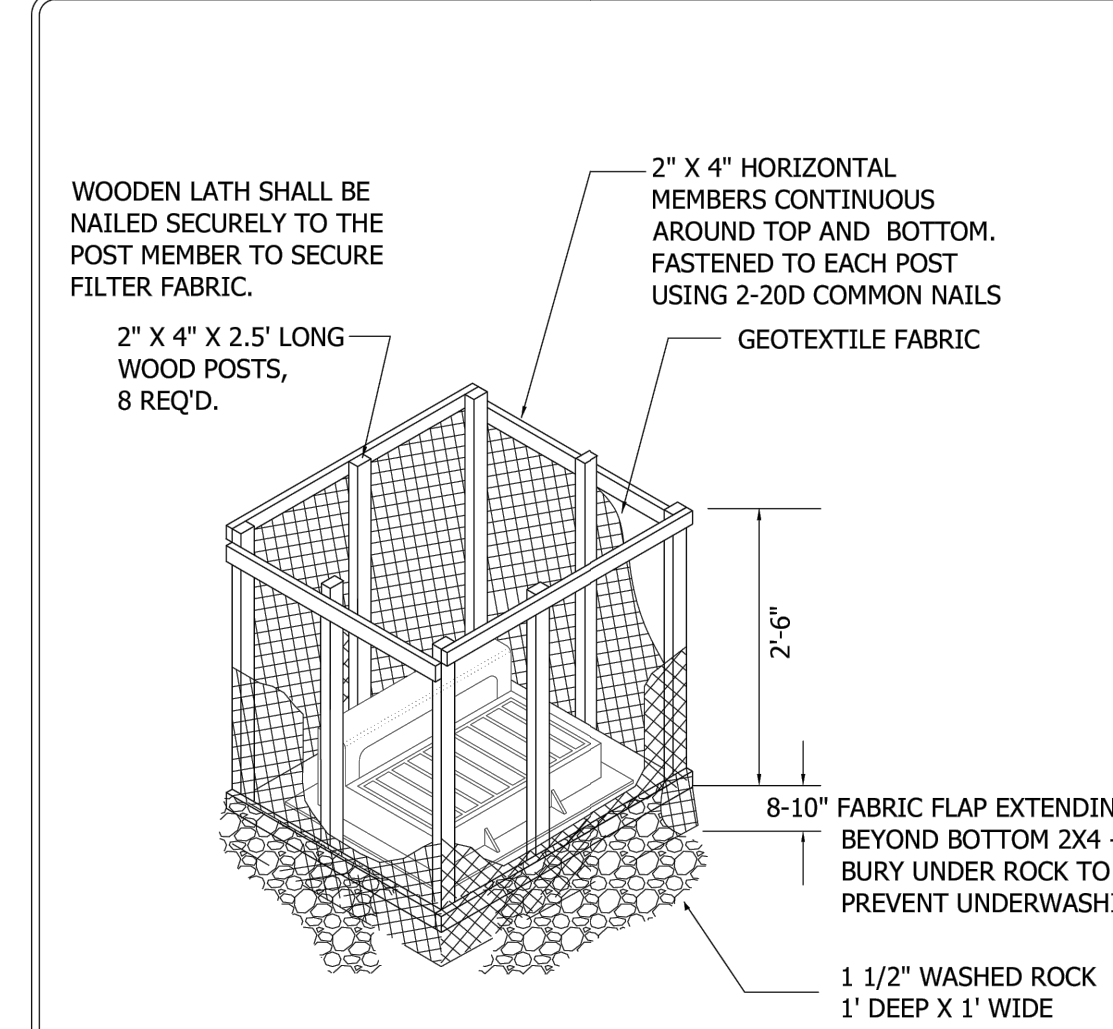


Cottage Grove
Where Pride and Prosperity Meet

STANDARD DETAILS
GATE VALVE AND BOX INSTALLATION
COTTAGE GROVE, MINNESOTA

JANUARY 2024
PLATE NO.
WAT-3

9 GATE VALVE AND BOX C500 NOT TO SCALE



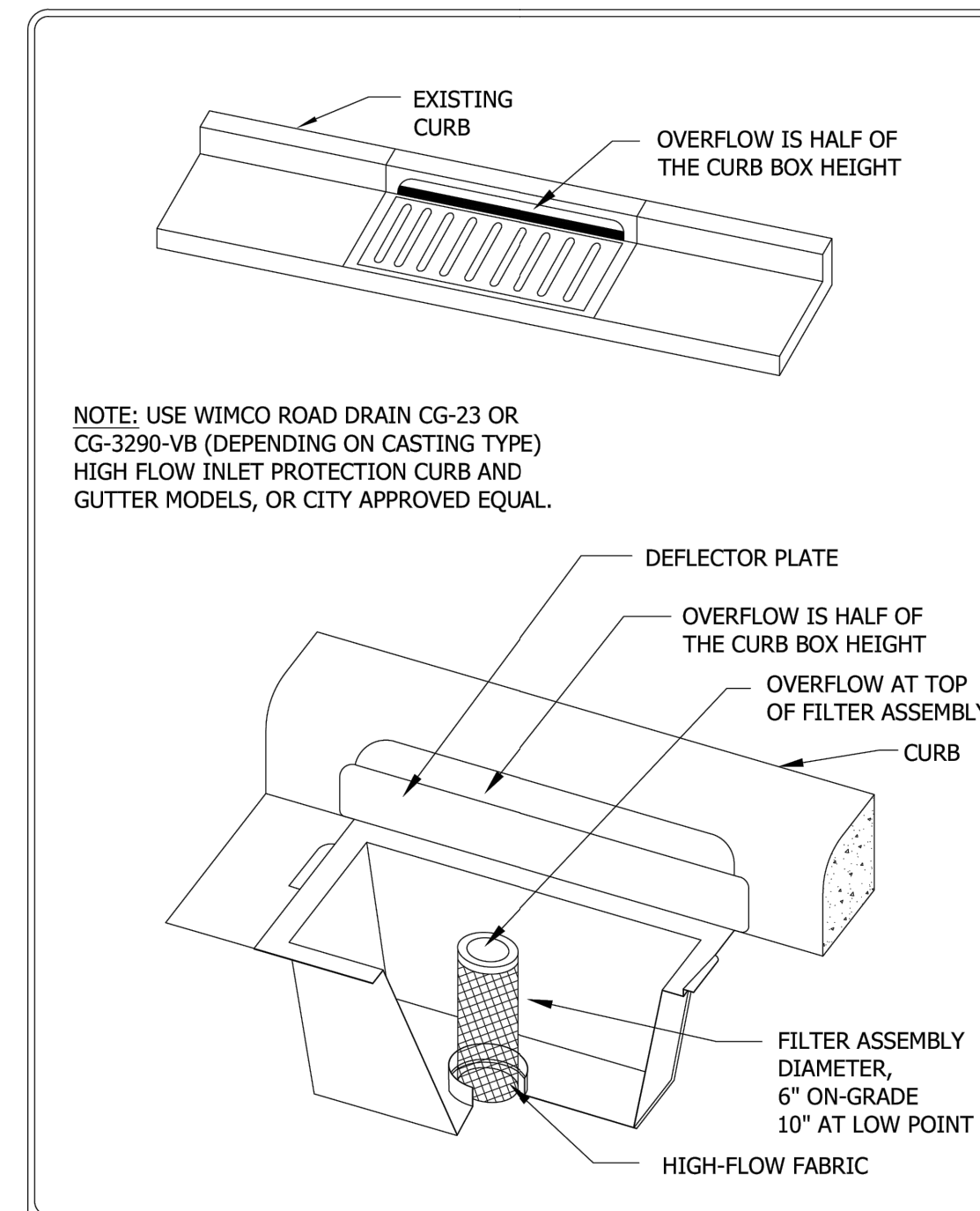
NOTES:
CONTRACTOR SHALL CONSTRUCT SILT BOX TO FIT AROUND THE INLET STRUCTURE WITH 6" MINIMUM CLEARANCE TO EDGES OF STRUCTURE. SILT BOX TO BE PLACED ON AN EVEN SURFACE 6" BELOW STRUCTURE OPENING. TOP OF SILT BOX TO EXTEND 18" MINIMUM ABOVE EXISTING GRADE.

Cottage Grove
Where Pride and Prosperity Meet

STANDARD DETAILS
INLET PROTECTION SILT BOX FOR CATCH BASIN
COTTAGE GROVE, MINNESOTA

JANUARY 2024
PLATE NO.
ERO-7

4 INLET PROTECTION - SILT BOX C500 NOT TO SCALE

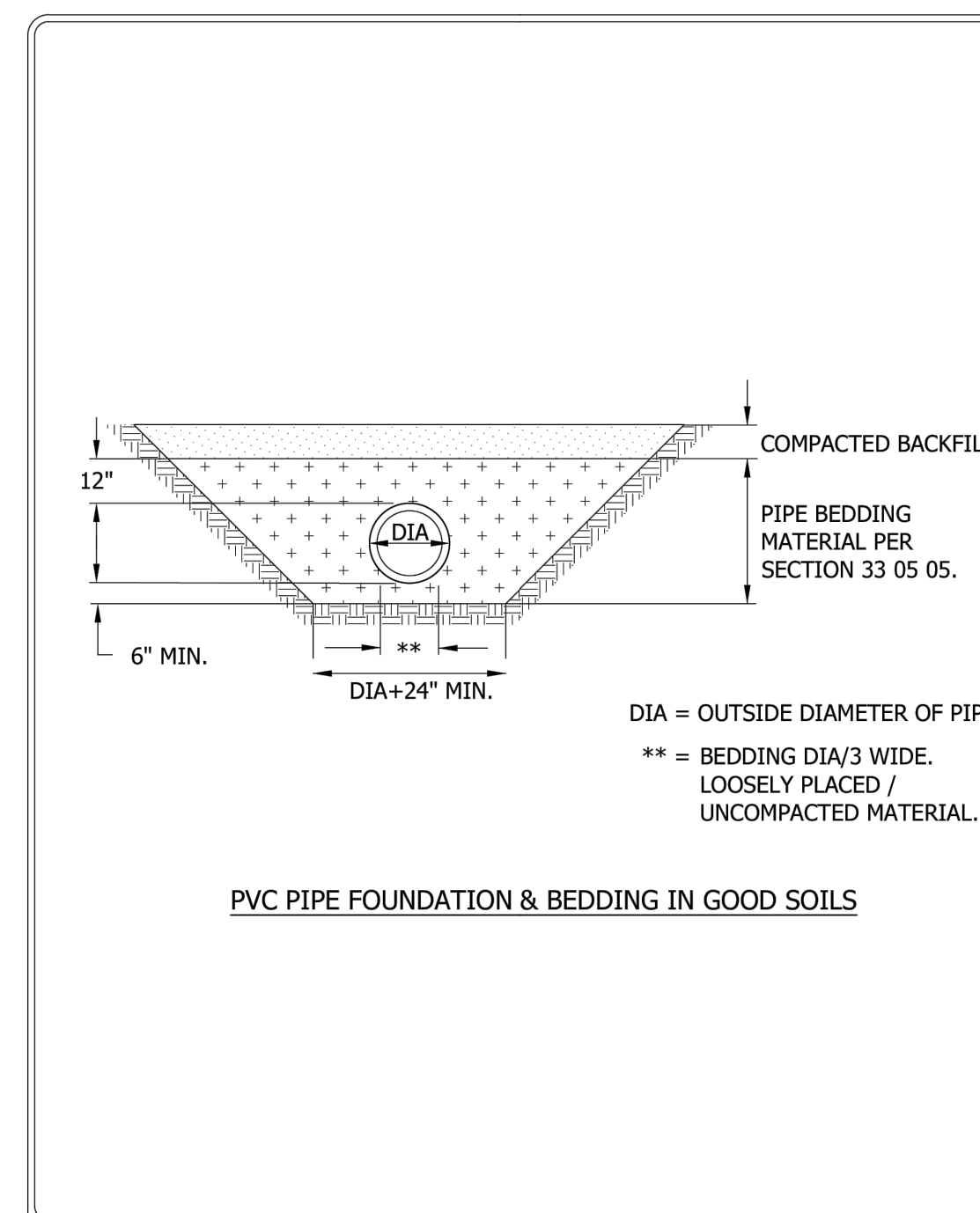


Cottage Grove
Where Pride and Prosperity Meet

STANDARD DETAILS
INLET PROTECTION CATCH BASIN INSERT
COTTAGE GROVE, MINNESOTA

JANUARY 2024
PLATE NO.
ERO-9

5 INLET PROTECTION - INSERT C500 NOT TO SCALE

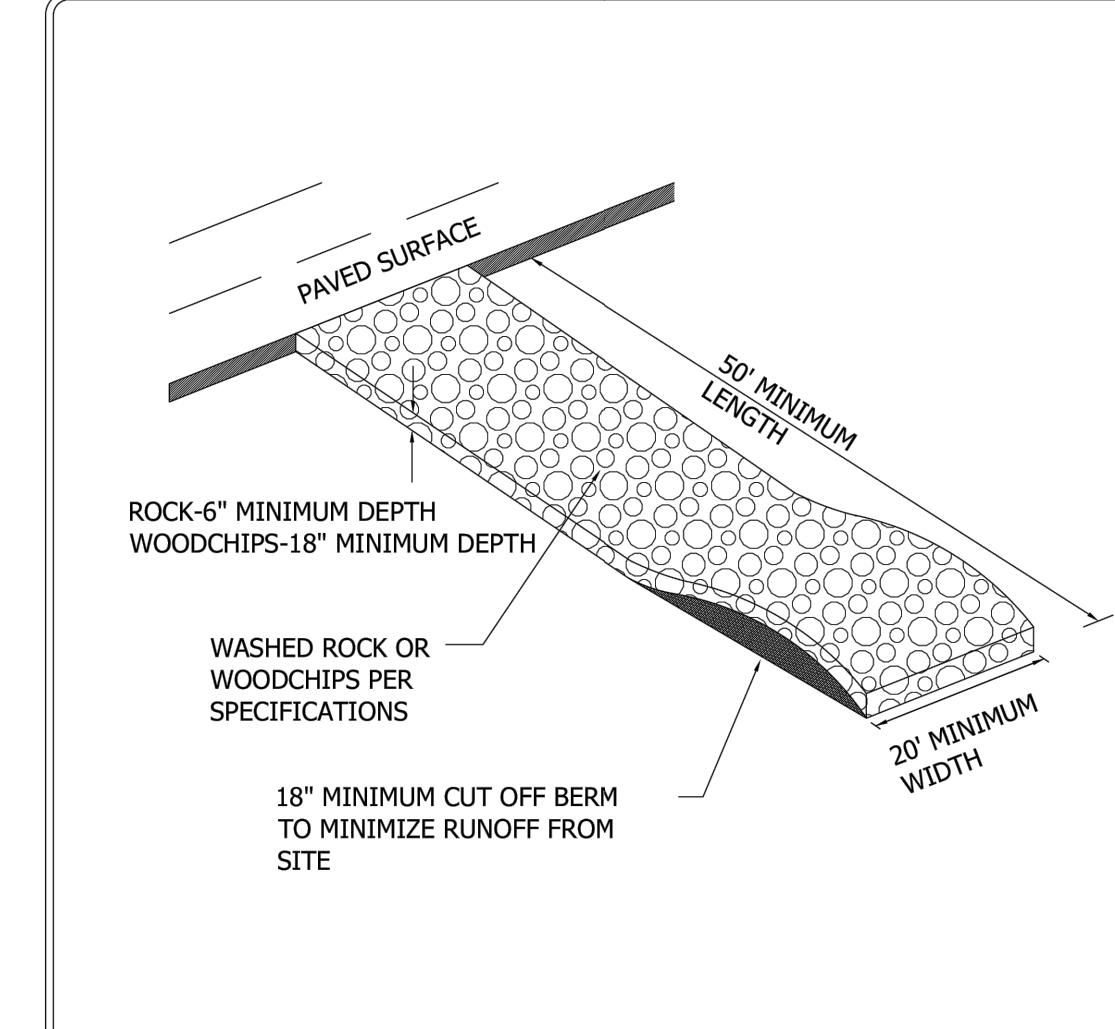


Cottage Grove
Where Pride and Prosperity Meet

STANDARD DETAILS
PIPE FOUNDATION & BEDDING METHOD FOR PVC
COTTAGE GROVE, MINNESOTA

JANUARY 2024
PLATE NO.
BED-1

6 PIPE BEDDING - PVC C500 NOT TO SCALE



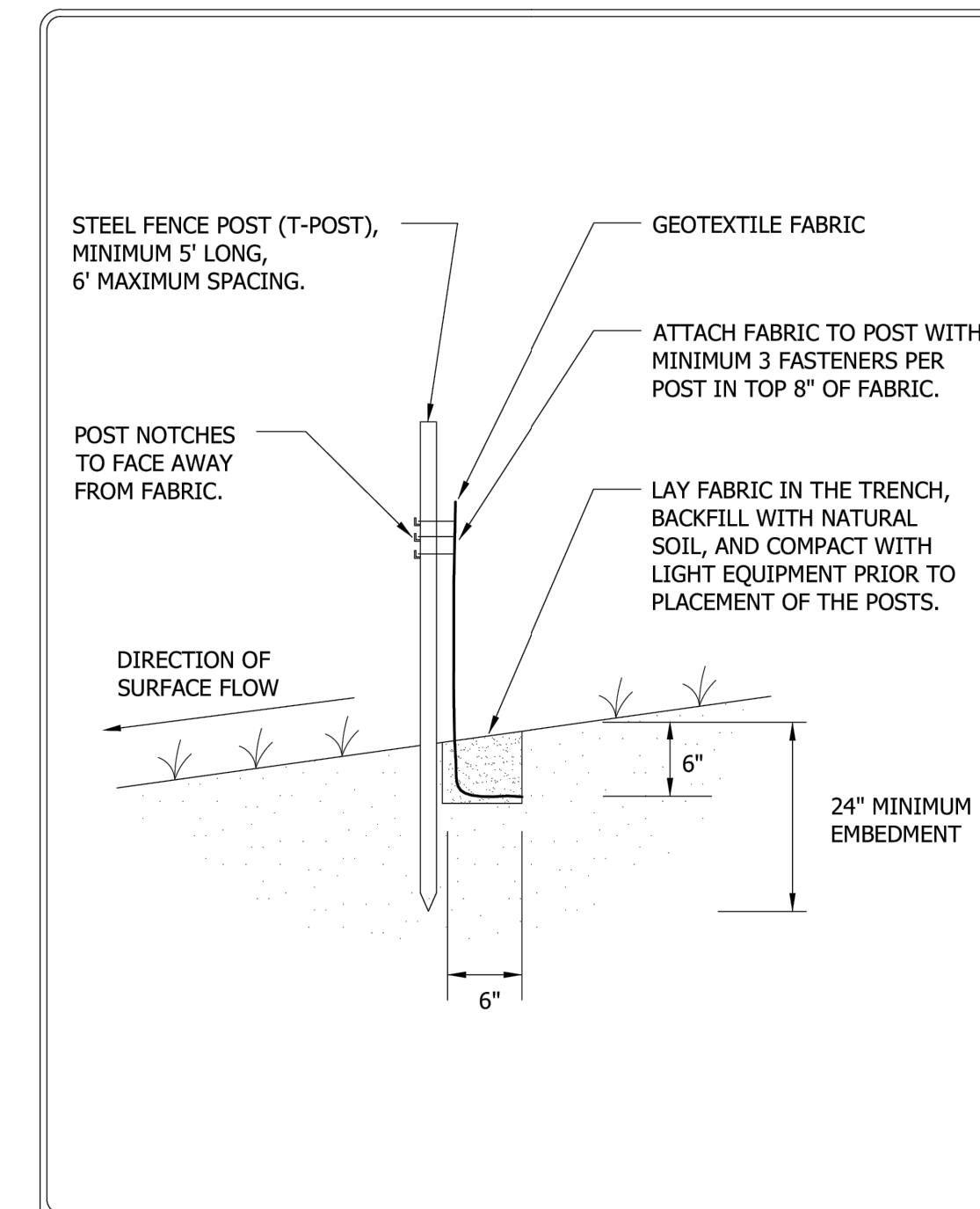
NOTES:
1. FILTER FABRIC SHALL BE PLACED UNDER ROCK OR WOODCHIPS TO STOP MUD MIGRATION THROUGH ROCK.
2. ENTRANCE MUST BE MAINTAINED REGULARLY TO PREVENT SEDIMENTATION TRACKING.

Cottage Grove
Where Pride and Prosperity Meet

STANDARD DETAILS
CONSTRUCTION ENTRANCE ROCK AND WOODCHIP
COTTAGE GROVE, MINNESOTA

JANUARY 2024
PLATE NO.
ERO-12

1 CONSTRUCTION ENTRANCE C500 NOT TO SCALE

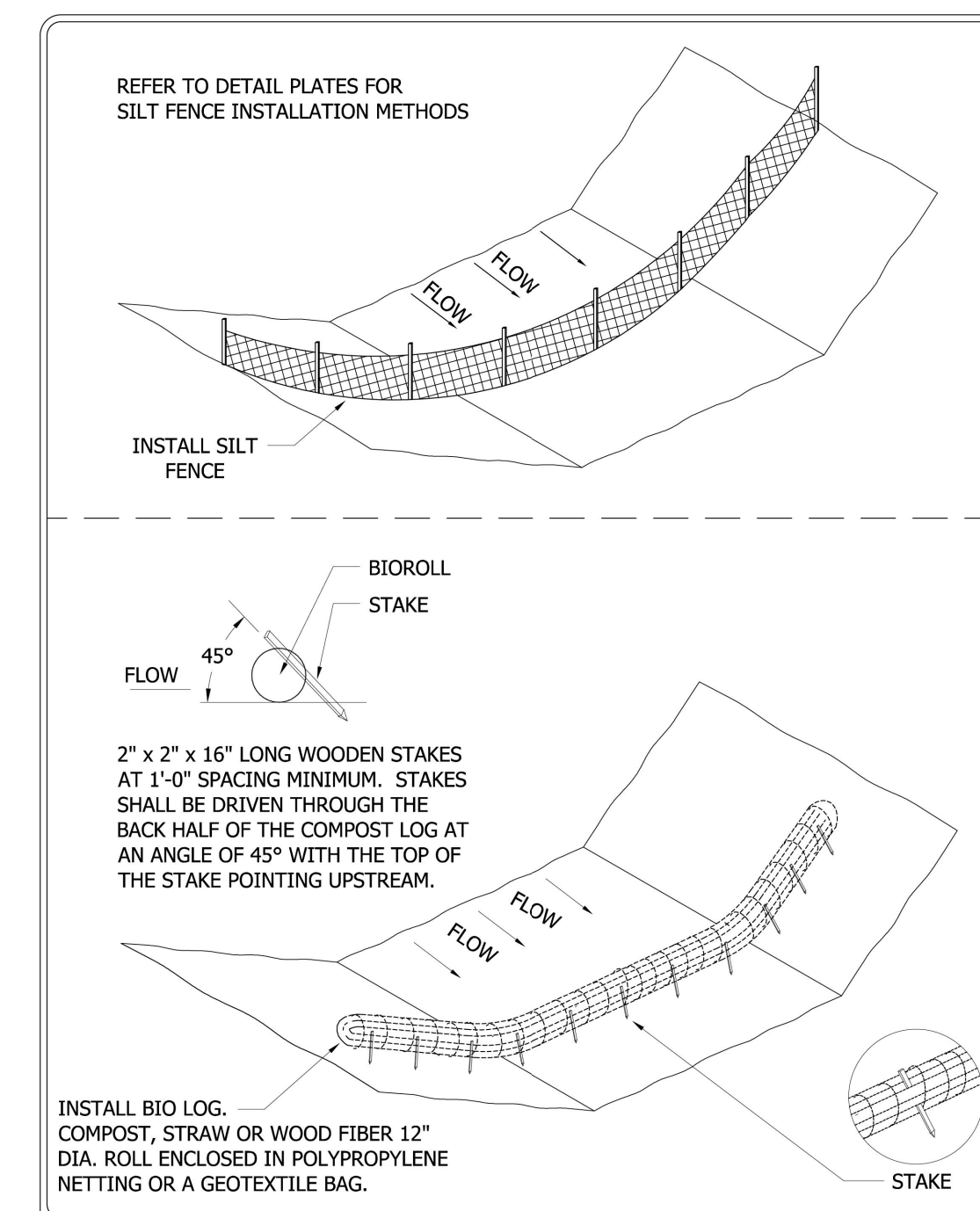


Cottage Grove
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STANDARD DETAILS
HAND INSTALLED SILT FENCE
COTTAGE GROVE, MINNESOTA

JANUARY 2024
PLATE NO.
ERO-2

2 SILT FENCE C500 NOT TO SCALE



Cottage Grove
Where Pride and Prosperity Meet

STANDARD DETAILS
BIO LOG DITCH CHECK
COTTAGE GROVE, MINNESOTA

JANUARY 2024
PLATE NO.
ERO-11

3 BIO LOG DITCH CHECK C500 NOT TO SCALE

so wash CO SCHOOLS



KRAUS-ANDERSON CONSTRUCTION COMPANY
901 SOUTH EIGHTH STREET, MINNEAPOLIS, MN 55404
P. 612.333.7281

KOMA
ARCHITECTS | DESIGNERS | ENGINEERS

2051 MILLERBREW DRIVE, SUITE 680, BLOOMINGTON, MN 55425
P. 651.451.4605

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 MN.

Kevin A. Bohl
Date: 11-1-2024 License Number: 52209

BKBM
Structural & Civil Engineers

6120 Earle Brown Drive
Suite 700 Minneapolis, MN 55426
Phone: 763.543.0420
bkbm.com

BKBM Project No. 24222 50

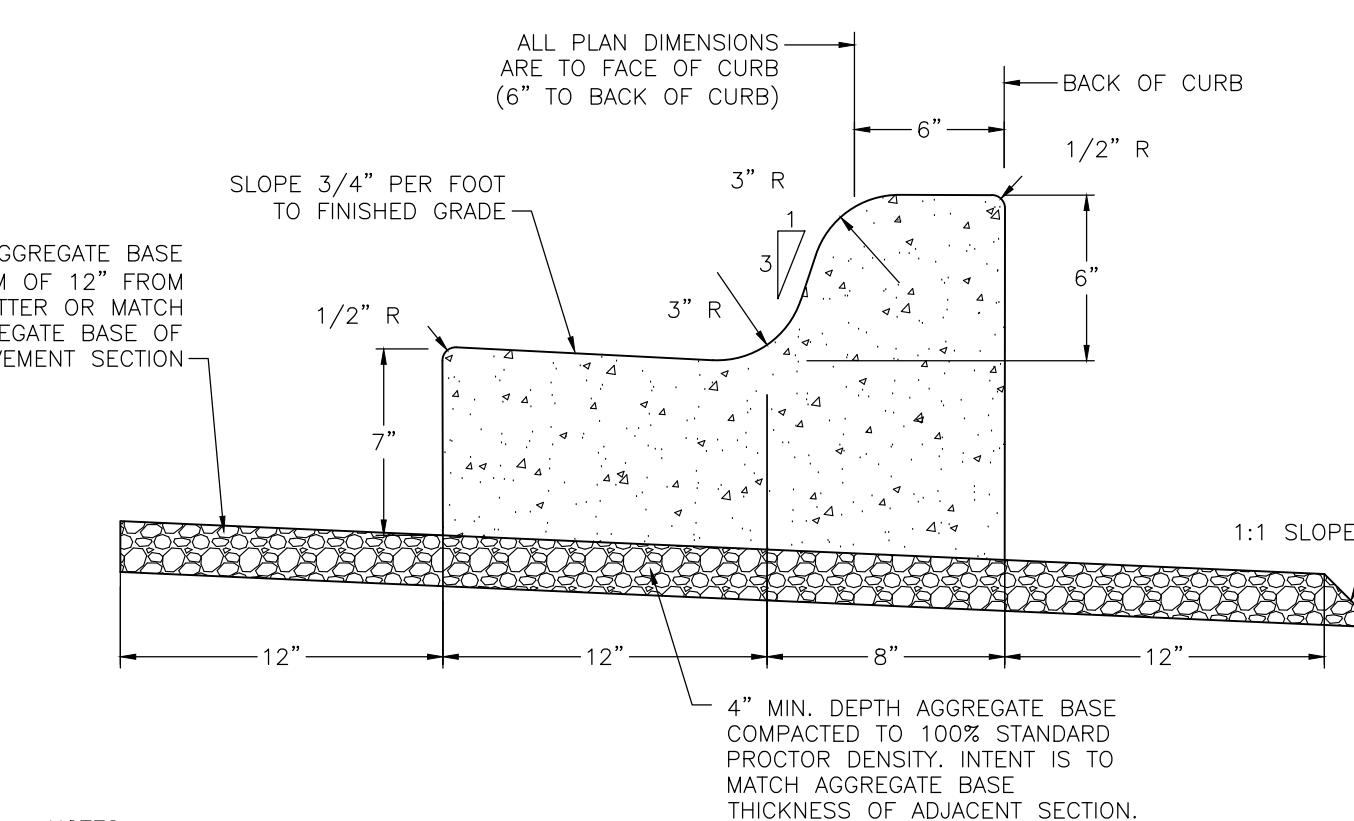
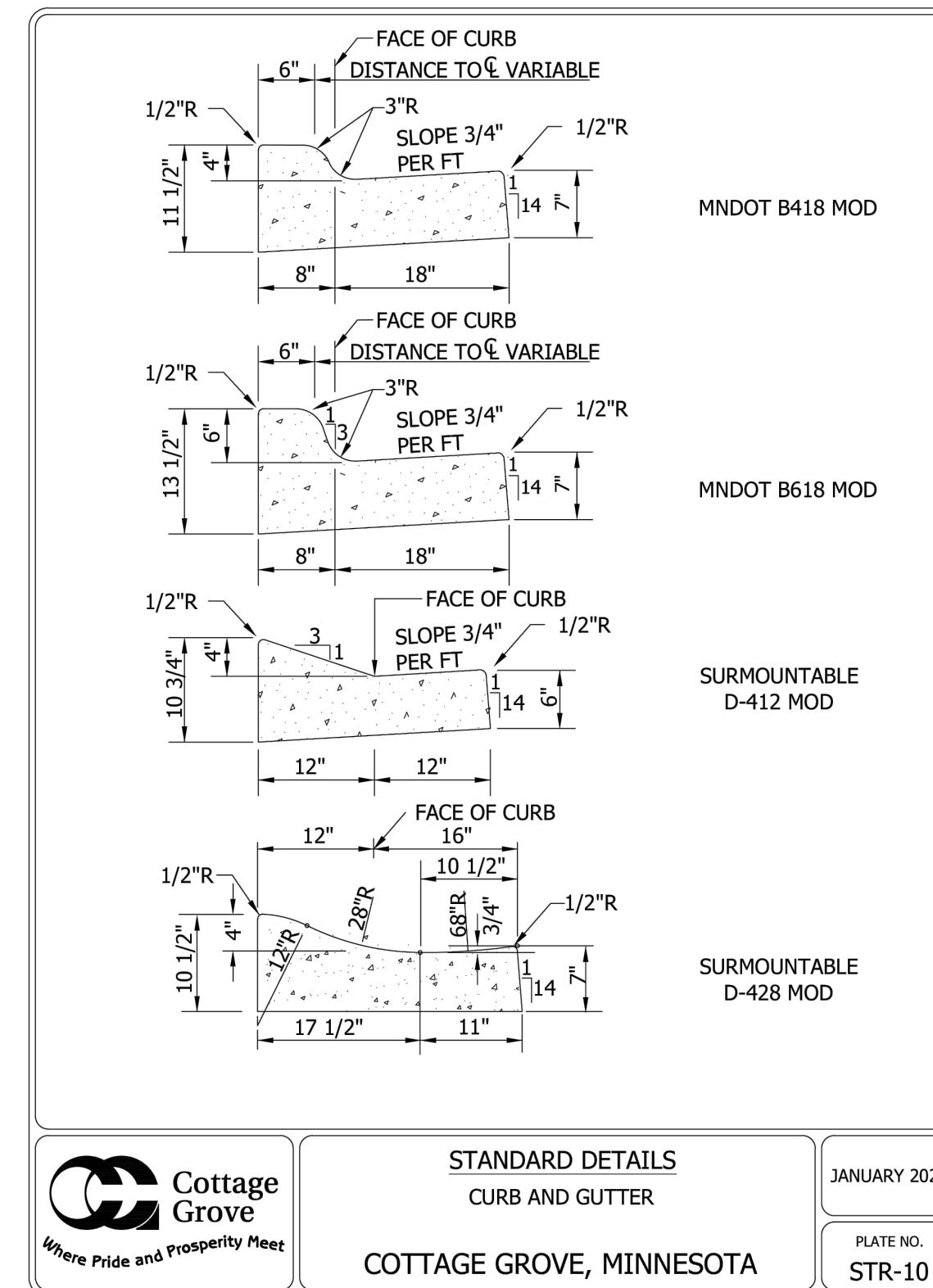
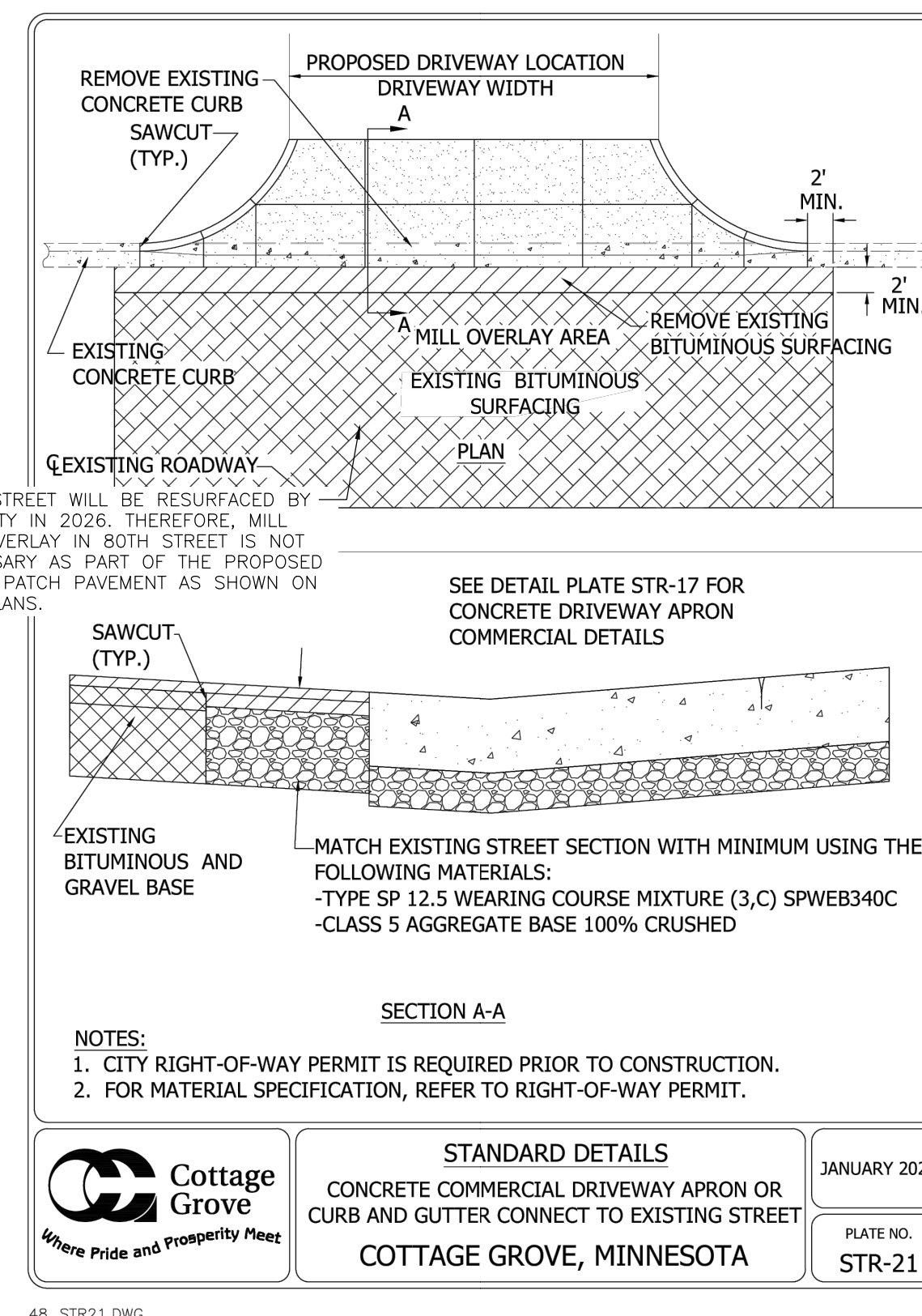
CIVIL DETAILS

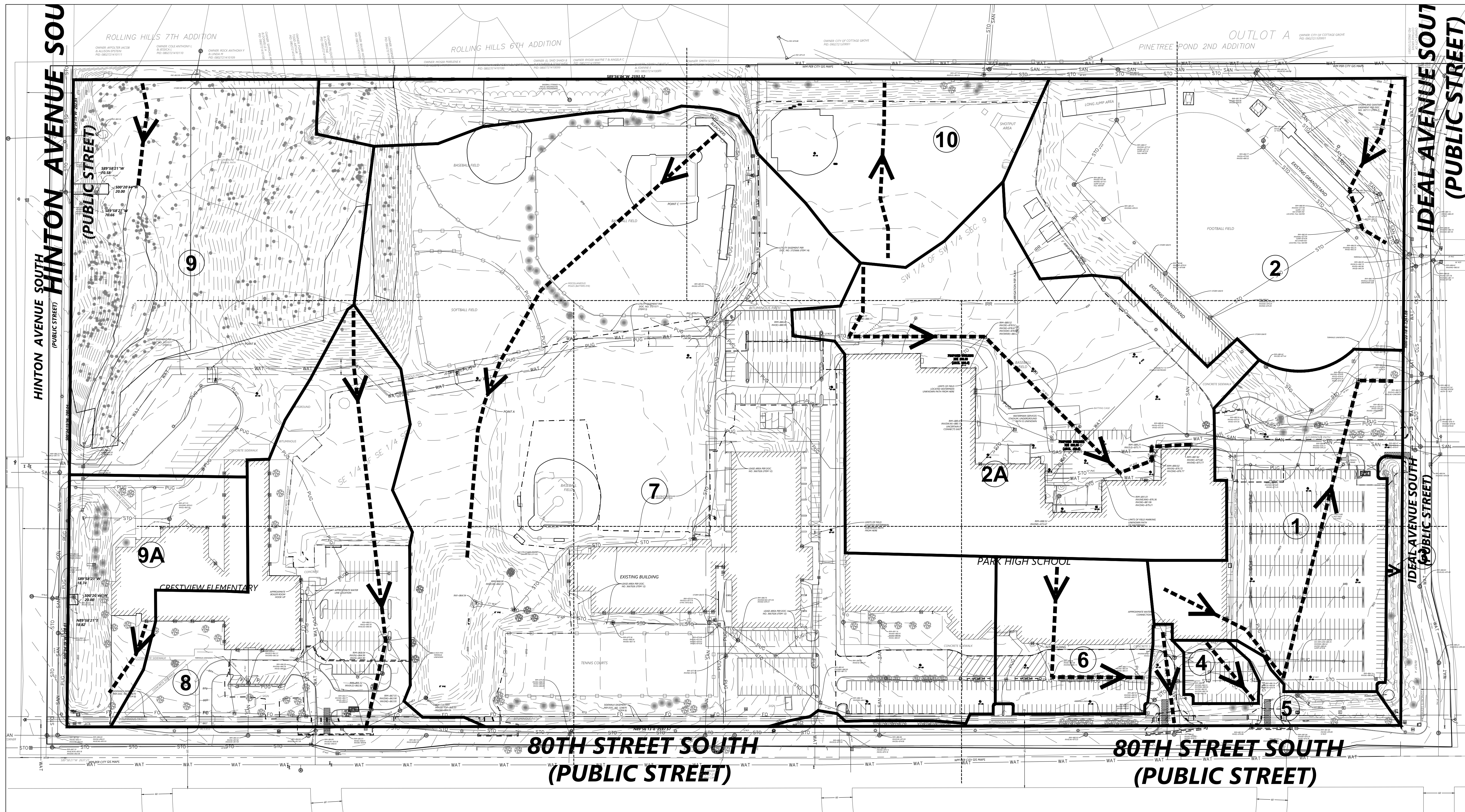
**PARK HIGH SCHOOL
ADDITIONS & RENOVATIONS
8040 80TH STREET SOUTH
COTTAGE GROVE, MN 55016**

PROJECT: 23270
DRAWN BY: WH
CHECKED BY: KAB
DATE: 11.1.2024
REVISIONS:

**BID PACKAGE
#1: PRICING
SET**

C500



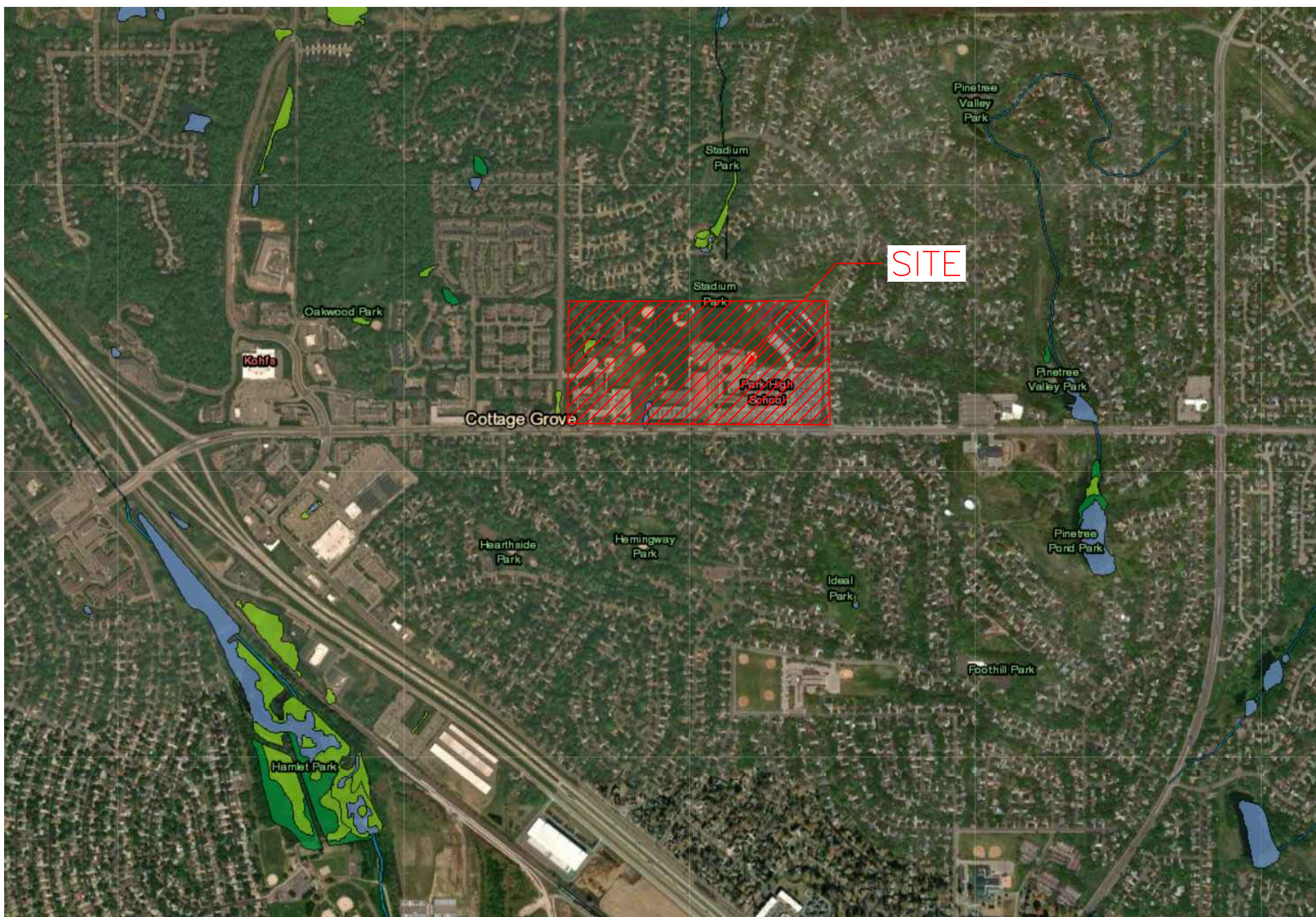


1
C600
EXISTING CONDITIONS
1" = 100'

EXISTING DRAINAGE AREAS							
DRAINAGE AREA	IMPERVIOUS AREA (ACRES)	PERVIOUS AREA (ACRES)	TOTAL AREA (ACRES)	2-YEAR (2.79")	10-YEAR (4.15")	100-YEAR (7.40")	ROUTING
1	3.95	1.13	5.08	17.25	27.13	52.00	IDEAL AVE SOUTH
2	2.42	5.93	8.35	10.26	20.94	52.85	IDEAL AVE SOUTH
2A	5.61	3.94	9.55	18.29	30.47	63.32	IDEAL AVE SOUTH
3	0.01	0.36	0.37	0.17	0.66	2.25	IDEAL AVE SOUTH
4	0.35	0.02	0.37	1.51	2.28	4.13	80TH STREET SOUTH
5	0.59	0.63	1.22	2.71	4.77	10.43	80TH STREET SOUTH
6	2.03	0.05	2.08	8.71	13.11	23.63	IDEAL AVE SOUTH
7	8.83	16.39	25.22	—	—	—	EX. CENTRAL INFILTRATION BASIN
8	3.05	3.14	6.19	11.65	20.34	44.42	80TH STREET SOUTH
9	0.64	8.30	8.94	—	—	—	EX. NORTH WEST INFILTRATION BASIN
9A	1.04	1.62	2.66	—	—	—	EX. SOUTH WEST INFILTRATION BASIN
10	0.11	5.02	5.13	1.43	5.93	21.65	OFFSITE TO THE NORTH
EX. CENTRAL INFILTRATION BASIN	—	—	—	0.00	3.80	47.59	80TH STREET SOUTH
EX. NORTH WEST INFILTRATION BASIN	—	—	—	—	—	—	EX. SOUTH WEST INFILTRATION BASIN
EX. SOUTH WEST INFILTRATION BASIN	—	—	—	4.51	6.33	9.21	HINTON AVENUE SOUTH
TOTAL	28.63	46.52	75.15	76.49	135.76	331.48	

PROPOSED DRAINAGE AREAS							
DRAINAGE AREA	IMPERVIOUS AREA (ACRES)	PERVIOUS AREA (ACRES)	TOTAL AREA (ACRES)	2-YEAR (2.79")	10-YEAR (4.15")	100-YEAR (7.40")	ROUTING
1	3.88	1.08	4.96	16.94	26.61	50.93	IDEAL AVE SOUTH
2	2.58	5.81	8.38	10.78	21.59	53.64	IDEAL AVE SOUTH
2A	6.51	2.36	8.87	—	—	—	FILTRATION BASIN 2
3	0.00	0.35	0.36	0.14	0.59	2.12	IDEAL AVE SOUTH
4	0.35	0.02	0.37	1.51	2.28	4.13	80TH STREET SOUTH
5	0.59	0.63	1.22	2.71	4.77	10.43	80TH STREET SOUTH
6	2.03	0.05	2.08	8.71	13.11	23.63	IDEAL AVE SOUTH
7	10.84	17.49	28.33	—	—	—	FILTRATION BASIN 1
8	2.69	1.16	3.85	10.87	17.48	34.54	80TH STREET SOUTH
9	0.64	8.30	8.94	—	—	—	EX. NORTH WEST INFILTRATION BASIN
9A	1.04	1.62	2.66	—	—	—	EX. SOUTH WEST INFILTRATION BASIN
10	0.35	4.77	5.13	1.93	6.26	20.97	OFFSITE TO THE NORTH
FILTRATION BASIN 1	—	—	—	4.21	10.83	29.50	80TH STREET SOUTH
EX. NORTH WEST INFILTRATION BASIN	—	—	—	—	—	—	EX. SOUTH WEST INFILTRATION BASIN
EX. SOUTH WEST INFILTRATION BASIN	—	—	—	4.60	6.38	9.23	HINTON AVENUE SOUTH
FILTRATION BASIN 2	—	—	—	6.29	19.30	39.23	IDEAL AVE SOUTH
TOTAL	31.50	43.64	75.15	68.69	129.20	278.35	

STORMWATER RUNOFF SUMMARY			
	2-YR STORM (2.79") RUNOFF (CFS)	10-YR STORM (4.15") RUNOFF (CFS)	100-YR STORM (7.40") RUNOFF (CFS)
EXISTING SITE	76.49	135.76	331.48
PROPOSED SITE	68.69	129.20	278.35



VICINITY MAP
COTTAGE GROVE, MINNESOTA

