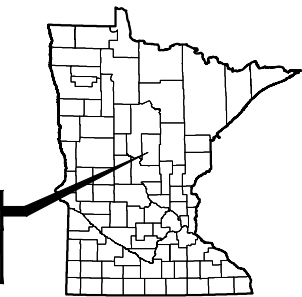


# 2024 CSAH 77 UTILITY IMPROVEMENTS

BAXTER, MINNESOTA  
MUNICIPAL PROJECT NO. 4118



## PROJECT LOCATION

CITY OF BAXTER  
CROW WING COUNTY, MINNESOTA

## PROJECT LEGEND

PROJECT AREA(S)

STATE TRUNK HIGHWAY No. 371

EDGEWOOD DRIVE

COUNTY STATE AID HIGHWAY No. 77

INGLEWOOD DRIVE



0 150 300  
SCALE ( IN FEET )

## GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE 2020 SCHEDULE OF "MATERIALS CONTROL FOR 2020 STANDARD SPECIFICATIONS" SHALL GOVERN.

## SHEET INDEX TABLE

SHEET NUMBERS	SHEET TITLE
1	TITLE SHEET
2	LEGEND SHEET
3	STATEMENT OF ESTIMATED QUANTITIES
4	SANITARY SEWER DETAILS
5	WATER MAIN DETAILS
6-7	EROSION CONTROL DETAILS
8	MISC. NOTES & TABLES
9	EXISTING CONDITIONS & REMOVALS PLANS
10-12	UTILITY PLAN & PROFILE
13	EROSION CONTROL PLAN

THIS PLAN CONTAINS 13 SHEETS

## CITY OFFICIALS

MAYOR:	DARREL OLSON
CITY COUNCIL:	MARK CROSS
	CONNIE LYSCIO
	ZACH TABATT
	JEFF PHILLIPS
UTILITIES COMMISION:	ROCK YLINIEMI (CHAIR)
	JACK CHRISTOFFERSON
	DOUGLAS STENBERG
	JOHN BRENNY
CITY ADMINSTRATOR:	BRADLEY CHAPULIS
PUBLIC WORKS DIRECTOR / CITY ENGINEER:	TREVOR WALTER

## APPROVALS

RECOMMENDED FOR APPROVAL:	CITY CONSULTING ENGINEER	DATE
RECOMMENDED FOR APPROVAL:	PUBLIC WORKS DIRECTOR / CITY ENGINEER	DATE

**WIDSETH**  
ARCHITECTS • ENGINEERS • SCIENTISTS • SURVEYORS

WIDSETH SMITH NOLTING & ASSOCIATES, INC. HAS PREPARED THIS PLAN, SPECIFICATION, OR REPORT THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
DATE: MM/DD/YYYY: NO. 41183  
ARIC L. WELSH

REVISIONS	DESCRIPTION	DATE	REV#	BY












DATE:	MONTH, YEAR	AS SHOWN
SCALE:	DATE	DATE
DRAWN BY:	JWR	ALW
CHECKED BY:		
JOB NUMBER:	2024-10096	

2024 CSAH 77 UTILITY IMPROVEMENTS  
CITY OF BAXTER  
BAXTER, MN  
TITLE SHEET


















SHEET NO.  
**1**



## SURVEY MONUMENTS

	BENCH MARK
	FOUND CIM
	FOUND CPNT.
	FOUND JLM
	FOUND LATH
	FOUND PIPE
	FOUND READING
	STAKED CIM
	STAKED CPNT.
	STAKED JLM
	STAKED PIPE









### EXISTING TOPO SYMBOLS

	AC UNIT
	FENCE POST
	FLAG POLE
	GUARD POST
	GUY ANCHOR
	GUY POLE
	HANDICAP SYMBOL
	MAILBOX
	SHRUB
	SIGN DOUBLE POST
	SIGN SINGLE POST
	TREE CONIFER
	TREE DECIDUOUS
	TREE STUMP
	TV DISH
	WETLAND SYMBOL
	YARD LIGHT



















### EXISTING UTILITY MUNICIPAL SYMBOLS

- ☐ APRON
- ☒ LIFT STATION
- ☐ SANITARY CLEANOUT
- ☒ SANITARY MANHOLE
- ☐ STORM CATCH BASIN
- ☒ STORM INLET










EXISTING UTILITY MUNICIPAL SYMBOLS (cont.)

	STORM MANHOLE
	WATER CURB STOP
	WATER HANDHOLE
	WATER HYDRANT
	WATER MANHOLE
	WATER METER
	WATER VALVE
	WATER WELL
UTILITY	UTILITY SIZE & TYPE












### EXISTING UTILITY PRIVATE SYMBOLS










	ELEC GROUND LIGHT
	ELEC HANDHOLE
	ELEC LIGHT POLE
	ELEC MANHOLE
	ELEC METER
	ELEC PEDESTAL
	ELEC POLE
	ELEC SIGNAL
	ELEC TRANSFORMER BOX
	GAS METER
	GAS VALVE
	LP TANK
	TELE HANDHOLE
	TELE MANHOLE
	TELE PEDESTAL
	TELE POLE
	TV HANDHOLE
	TV PEDESTAL

### SOIL BORING SYMBOLS

	LIF	LASER-INDUCED FLUORESCENCE BORING
	LY	LYSIMETER
	MW	MONITOR WELL
	PT	PERC TEST
	PZ	PIEZOMETER
	RW	RECOVERY WELL
	SB	SOIL BORING
	VP	SOIL VAPOR POINT
	VS	VAPOR SURVEY POINT

## PROPOSED UTILITY MUNICIPAL SYMBOLS



	APRON PROPOSED
	SANITARY CLEANOUT PROPOSED
	SANITARY LIFT STATION PROPOSED
	SANITARY LIFT STATION VALVE MANHOLE PROPOSED
	SANITARY MANHOLE PROPOSED
	SANITARY PLUG PROPOSED
	STORM CATCH BASIN PROPOSED
	STORM MANHOLE PROPOSED
	WATER 11 1/4° BEND PROPOSED
	WATER 22 1/2° BEND PROPOSED
	WATER 45° BEND PROPOSED

	WATER 90° BEND PROPOSED
	WATER CAP PROPOSED
	WATER CROSS PROPOSED
	WATER CURB STOP PROPOSED
	WATER HYDRANT PROPOSED
	WATER REDUCER PROPOSED
	WATER SLEEVE PROPOSED
	WATER TEE PROPOSED
	WATER VALVE PROPOSED






### PROPOSED UTILITY PRIVATE SYMBOLS

 ELEC LIGHT POLE PROPOSED

### EROSION CONTROL SYMBOLS

 SURFACE DRAINAGE ARROW  
 STORM DRAIN INLET PROTECTION

## TRAFFIC CONTROL DEVICES & SYMBOLS

	TRAFFIC CONTROL SIGN (1 POST)
	TRAFFIC CONTROL SIGN (2 POST)
	TYPE III BARRICADE
	DRUM CHANNELIZER
	FLASHING ARROW OR MESSAGE BOARD

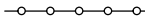









EXISTING TOPOGRAPHIC LINES

	CENTER LINE
	EDGE OF WOODS
	FENCE BARB WIRE
	FENCE CHAIN LINK
	FENCE WOOD
	FORCEMAIN
	OVERHEAD CABLE TV
	OVERHEAD ELECTRIC
	OVERHEAD TELE
	RAILROAD
	RETAINING WALL
	SANITARY SEWER
	SANITARY SEWER SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	UNDERGROUND CABLE TV
	UNDERGROUND ELECTRIC
	UNDERGROUND FIBER OPTIC
	UNDERGROUND GAS
	UNDERGROUND TELE
	WATERMAIN
	WATERMAIN SERVICE
	WETLAND EDGE








R/W, LOT & EASEMENTS LINES

.....	BUILDING SETBACK LINE
_____	LOT LINE PROPOSED
-----	EASEMENT LINE
-----	EASEMENT LINE PROPOSED
-----	LOT LINE
- O ——— O ———	MNDOT CONTROLLED ACCESS LINE
_____ - - -	RIGHT OF WAY EXISTING
_____ - - -	RIGHT OF WAY PROPOSED












PROPOSED CONSTRUCTION LINES

	FENCE CHAIN LINK PROPOSED
	FENCE WOOD PROPOSED
	FENCE BARB WIRE PROPOSED
	FORCEMAIN PROPOSED
	SANITARY SEWER PROPOSED
	SANITARY SERVICE PROPOSED
	STORM SEWER PROPOSED
	STORM SEWER DRAIN TILE PROPOSED
	WATERMAIN PROPOSED
	WATERMAIN SERVICE PROPOSED


### EROSION CONTROL LINES

	BALE CHECK
	BIO ROLL
	SILTS FENCE
	SILTS FENCE TYPE HEAVY DUTY
	SILTS FENCE TYPE MACHINE SLICED
	SILTS FENCE TYPE PREASSEMBLED
	FLOTATION SILTS CURTAIN

### HATCH PATTERN AND SHADING LEGEND

	RANDOM RIPRAP
	SOD
	SEED
	HYDRAULIC STABILIZER
	EROSION CONTROL BLANKET
	TEMP. ROCK CONSTRUCTION ENTRANCE
	BUILDING WALL HATCH
	BITUMINOUS SURFACE
	CONCRETE SURFACE
	GRAVEL SURFACE
	EASEMENT PATTERN

## DOCUMENTATION SYMBOLS

 SECTION ARROW -  
SECTION NUMBER TOP;  
PAGE OF SECTION BOTTOM

STATEMENT OF ESTIMATED QUANTITIES					
SHEET NO.	NOTES	SPEC NO.	DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY
		2021.501	MOBILIZATION	LUMP SUM	
9		2101.505	CLEARING	ACRE	1.1
9		2101.505	GRUBBING	ACRE	1.1
9		2104.502	REMOVE CASTING	EACH	1
9		2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	134
9		2104.503	REMOVE PIPE SEWERS	LIN FT	54
9		2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	390
9		2104.061	REMOVE SPETIC TANK AND DRAINFIELD	LUMP SUM	1
9		2104.601	REMOVE MISCELLANEOUS STRUCTURES (#1)	LUMP SUM	1
9		2104.601	REMOVE MISCELLANEOUS STRUCTURES (#2)	LUMP SUM	1
		2106.601	DEWATERING	LUMP SUM	1
		2123.510	COMMON LABORERS	HOURL	10
		2123.610	SKID LOADER	HOURL	10
		2123.610	STREET SWEEPER (WITH PICKUP BROOM)	HOURL	10
10-12		2211.507	AGGREGATE BASE (CV) CLASS 5	CU YD	60
10-12		2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (2;C)	TON	85
10-12		2502.604	2" INSULATION	SQ YD	82
10-12		2502.602	6" PVC PIPE DRAIN CLEANOUT	EACH	3
10-12		2503.503	8" PVC PIPE SEWER (SDR 26)	LIN FT	34
10-12		2503.602	CONNECT TO EXISTING MANHOLES (SAN)	EACH	1
10-12		2503.602	10"X6" PVC WYE	EACH	3
10-12		2503.603	CLEAN AND VIDEO TAPE PIPE SEWER (MAIN LINE)	LIN FT	743
10-12		2503.603	CLEAN AND VIDEO TAPE PIPE SEWER (SERVICE)	LIN FT	98
10-12		2503.603	10" PVC PIPE SEWER (SDR 26)	LIN FT	743
10-12		2503.603	6" PVC SANITARY SERVICE PIPE (SCH 40)	LIN FT	64
10-12		2503.603	6" FORCEMAIN PIPE SEWER	LIN FT	817
10-12		2503.608	DUCTILE IRON FITTINGS (WATER & FORCEMAIN)	POUND	4130
10-12		2504.602	HYDRANT	EACH	4
10-12		2504.602	1.5" CORPORATION STOP	EACH	3
10-12		2504.602	6" GATE VALVE AND BOX	EACH	4
10-12		2504.602	8" GATE VALVE AND BOX	EACH	2
10-12		2504.602	12"X12" WET TAP	EACH	1
10-12		2504.602	1.5" CURB STOP AND BOX	EACH	3
10-12		2504.603	1 1/2" TYPE PE PIPE	LIN FT	23
10-12		2504.603	6" PVC WATERMAIN	LIN FT	56
10-12		2504.603	8" PVC WATERMAIN	LIN FT	12
10-12		2504.603	12" PVC WATERMAIN	LIN FT	1577
10-12		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 4007	EACH	4
10-12		2621.4B1	MANHOLE EXCESS DEPTH	LIN FT	6
4-5		2563.601	TRAFFIC CONTROL	LUMP SUM	1
13		2573.501	STABILIZED CONSTRUCTION EXIT	LUMP SUM	1
13		2573.503	SILT FENCE; TYPE MS	LIN FT	1800
13		2573.503	SEDIMENT CONTROL LOG TYPE STRAW	LIN FT	323
13		2574.507	COMMON TOPSOIL BORROW	CU YD	741
13		2574.508	FERTILIZER TYPE 1	POUND	980
13		2575.505	SEEDING	ACRE	1.6
13		2575.505	DISK ANCHORING	ACRE	1.6
13		2575.508	SEED MIXTURE 21-111	POUND	163
13		2575.508	SEED MIXTURE 25-131	POUND	304
13		2575.508	SEED MIXTURE 34-171	POUND	8
13		2575.508	HYDRAULIC MULCH MATRIX	POUND	6363
13		2575.509	MULCH MATERIAL TYPE 3	TON	3.2
10-12		2118.507	AGGREGATE SURFACING (CV) CLASS 5	TON	1.4

X

X

X

X

X

PRELIMINARY - NOT FOR CONSTRUCTION

2024 CSAH 77 UTILITY IMPROVEMENTS  
CITY OF BAXTER  
BAXTER, MN

STATEMENT OF ESTIMATED QUANTITIES

SHEET NO.  
**3**

DATE: 2024-10-09  
SCALE: AS SHOWN  
DRAWN BY: JWR  
CHECKED BY: ALW

MONTH, YEAR  
AS SHOWN  
JWR  
ALW

DATE: 2024-10-09

BY: [REVISIONS] [DESCRIPTION]

DATE: [REVISIONS] [DESCRIPTION]

DATE: [REVISIONS] [DESCRIPTION]

DATE: [REVISIONS] [DESCRIPTION]

DATE: [REVISIONS] [DESCRIPTION]

WIDSETH  
ARCHITECTS • ENGINEERS • SCIENTISTS • SURVEYORS

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NOTES & GUIDELINES

GENERAL INFORMATION























- 1. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN THE DEVICES IN THIS TRAFFIC CONTROL PLAN UNLESS OTHERWISE NOTED.
- 2. FIELD CONDITIONS MAY REQUIRE MODIFICATIONS OF THIS LAYOUT AS DEEMED NECESSARY BY THE ENGINEER. ALL DISTANCES ARE APPROXIMATE.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ANY WORK AREAS NEAR TRAFFIC IN ACCORDANCE WITH MN MUTCD.
- 4. SIGN PLACEMENTS SHALL NOT OBSTRUCT EXISTING SIGNS.
- 5. THE ITEM "TRAFFIC CONTROL" COVERS ALL DEVICES SHOWN ON THE PLAN SHEETS AND OTHER SETUPS REQUIRED BY THE CONTRACTOR'S OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR GETTING THE ACTUAL QUANTITIES NEEDED FOR THE PROJECT.
- 6. ALL DIAMOND SIGNS ARE 48" x 48".
- 7. IF THE CONTRACTOR DECIDES TO PERFORM THE CONSTRUCTION WORK IN A SEQUENCE OTHER THAN SHOWN IN THIS TRAFFIC CONTROL
- 8. PLAN THE CONTRACTOR SHALL PROVIDE COMPLETE REVISED TRAFFIC CONTROL PLANS TO BE APPROVED THE ENGINEER.

SIGNING

- 1. ALL TRAFFIC CONTROL DEVICES, INCLUDING OVERHEAD SIGNS ON ROADS OPEN TO TRAFFIC THAT ARE NOT CONSISTENT WITH TRAFFIC OPERATION SHALL BE COVERED, REMOVED OR REVISED AS DIRECTED BY THE ENGINEER.
- 2. WHEN SIGNS ARE PLACED, THEY SHALL BE MOUNTED ON POSTS DRIVEN INTO THE GROUND AT THE PROPER HEIGHT AND LATERAL OFFSET AS SHOWN IN THE TYPICAL TEMP SIGN FRAMING & INSTALLATION DETAILS IN THE PLAN. IF THIS IS NOT POSSIBLE, THEY WILL BE MOUNTED ON PORTABLE SUPPORTS AS APPROVED BY THE ENGINEER. WHEN SIGNS ARE REMOVED THE SIGNPOSTS SHALL ALSO BE REMOVED AS SOON AS POSSIBLE.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXTRA SIGNING NEEDED TO FACILITATE TRAFFIC SWITCHES OR FOR TRANSITIONING TRAFFIC FROM ONE STAGE TO ANOTHER.
- 4. ALL ORANGE WARNING AND ORANGE GUIDE SIGNS SHALL BE FABRICATED WITH SIGN SHEETING MATERIAL AS LISTED ON THE MNDOT APPROVED PRODUCT LIST FOR "SHEETING FOR RIGID TEMPORARY WORK ZONE SIGNS".
- 5. BARRICADES SHALL BE FABRICATED WITH SIGN SHEETING MATERIAL AS LISTED ON THE MNDOT APPROVED PRODUCT LIST FOR BARRICADE SHEETING. NOTE THAT ASTM TYPE VII SHEETING IS NOT ALLOWED ON BARRICADES AFTER JANUARY 1, 2010.
- 6. LONGITUDINAL DROPOFFS SHALL BE SIGNED AS SHOWN IN THE "TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS" FIELD MANUAL UNLESSOTHERWISE SPECIFIED IN THESE PLANS.
- 7. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE FINAL SIGNS TO ASSURE THAT THE FINAL SIGNS ARE PLACED AS NEEDED OR PROVIDE TEMPORARY SIGNING AT THEIR EXPENSE UNTIL THE FINAL SIGNING IS PLACED.

PAVEMENT MARKINGS

- 1. OBLITERATE ANY CONFLICTING PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER.
- 2. PAINT, POLYMER LANE TAPE AND/OR TRPM'S ARE ACCEPTABLE TEMPORARY STRIPING ALTERNATIVES ACCORDING TO ACTUAL CONDITIONS ENCOUNTERED AS DIRECTED BY THE ENGINEER. GENERALLY, ONLY PAINT WILL BE USED BEFORE MAY 1ST OR WHEN THE OTHER MANUFACTURERS' SPECIFICATIONS CAN NOT BE MET.
- 3. TRPM'S (TEMPORARY RAISED PAVEMENT MARKERS) SHOULD BE USED TO SUPPLEMENT THE LONG TERM (MORE THAN 3 DAYS) EDGELINES ON ALL TRANSITION AREAS WHEN THE CONDITIONS ARE WITHIN THE MANUFACTURERS' SPECIFICATIONS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND INSTALLATION OF TEMPORARY AND FINAL STRIPING. MNDOT TRAFFIC PERSONNEL WILL ASSIST IN THE SPOTTING OF TRANSITION AREAS, GORES AND TAPERS.

TRAFFIC CONTROL LEGEND				
SIGN	SIGN NO.	COLOR	SIZE	
	W20-1	BLACK ON ORANGE	48" x 48"	
	W20-2	BLACK ON ORANGE	48" x 48"	
	W20-3	BLACK ON ORANGE	48" x 48"	
	R11-2	BLACK ON WHITE	48" x 30"	
	R11-4	BLACK ON WHITE	60" x 30"	
	M4-8A	BLACK ON ORANGE	24" x 18"	
	M4-9L	BLACK ON ORANGE	42" x 36"	
	M4-9R	BLACK ON ORANGE	42" x 36"	
	M4-9T	BLACK ON ORANGE	42" x 36"	
	TYPE III		4' x 8'	
	DRUM CHANNELIZER	REFLECTIVE & ORANGE		

PRELIMINARY - NOT FOR CONSTRUCTION

2024 CSAH 77 UTILITY IMPROVEMENTS

CITY OF BAXTER

BAXTER, MN

DATE: 2024-10-09

SCALE: AS SHOWN

DRAWN BY: JWR

CHECKED BY: ALW

JOB NUMBER: 2024-10096

BY: [Signature]

REVISIONS

DESCRIPTION

DATE

REV#

WIDSETH

ARCHITECTS • ENGINEERS • SCIENTISTS • SURVEYORS

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

DATE: 10/09/24  
LIC. NO. 41883  
ARIC L. WELSH

4

SHEET NO.

J:\City of Baxter-32232\2024-10096\CADD\Civil\IC-TC-2024-10096.dwg

Plotted by: Joshua Rebennack

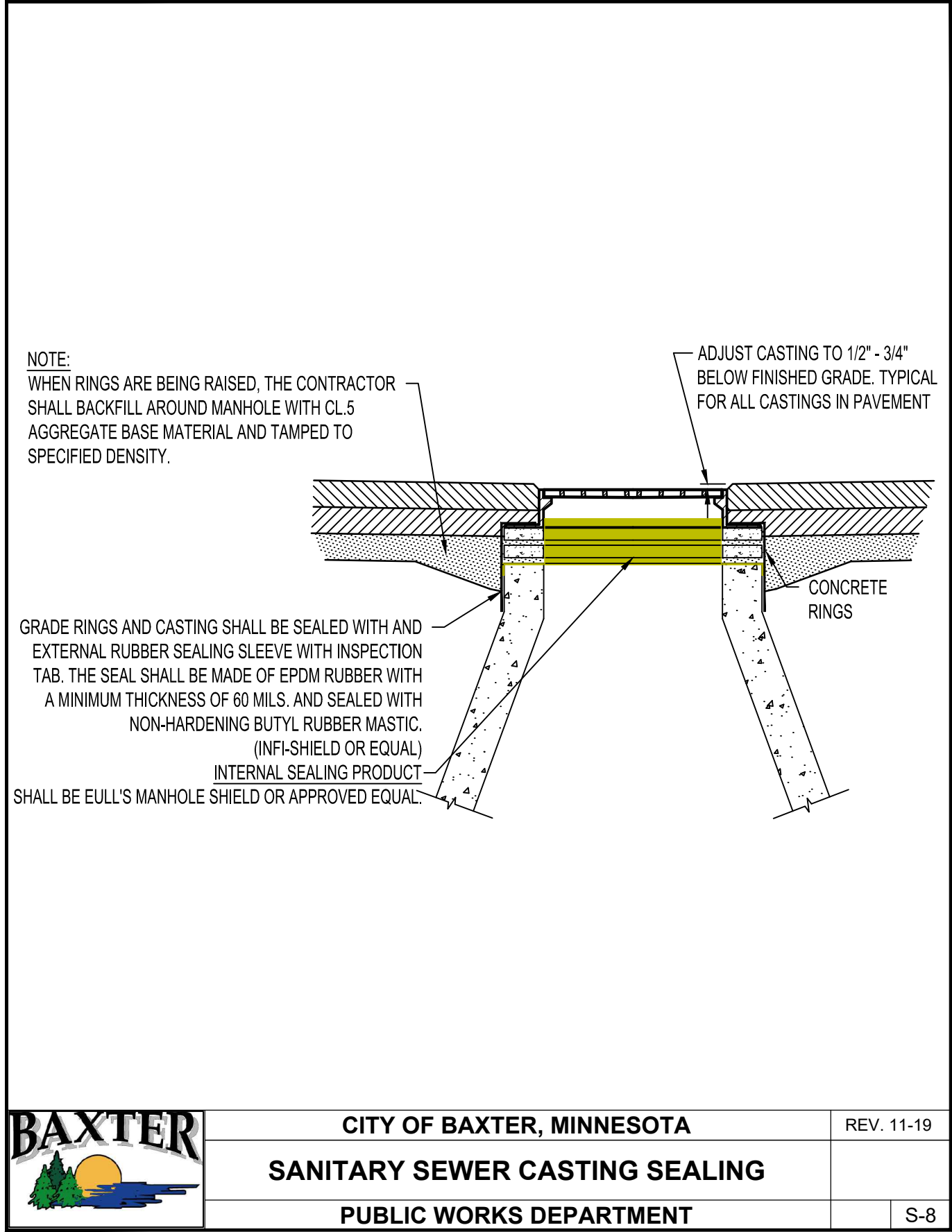
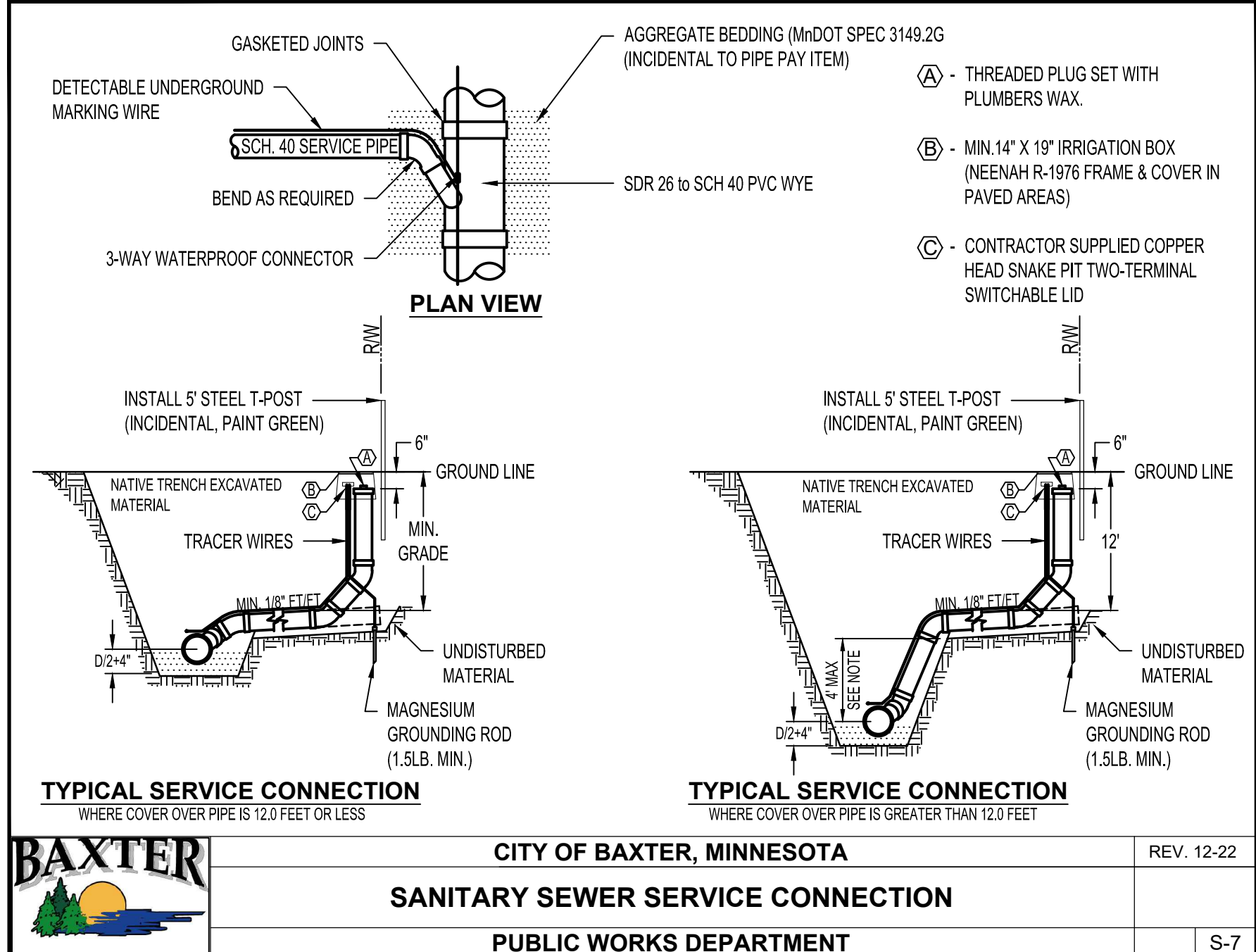
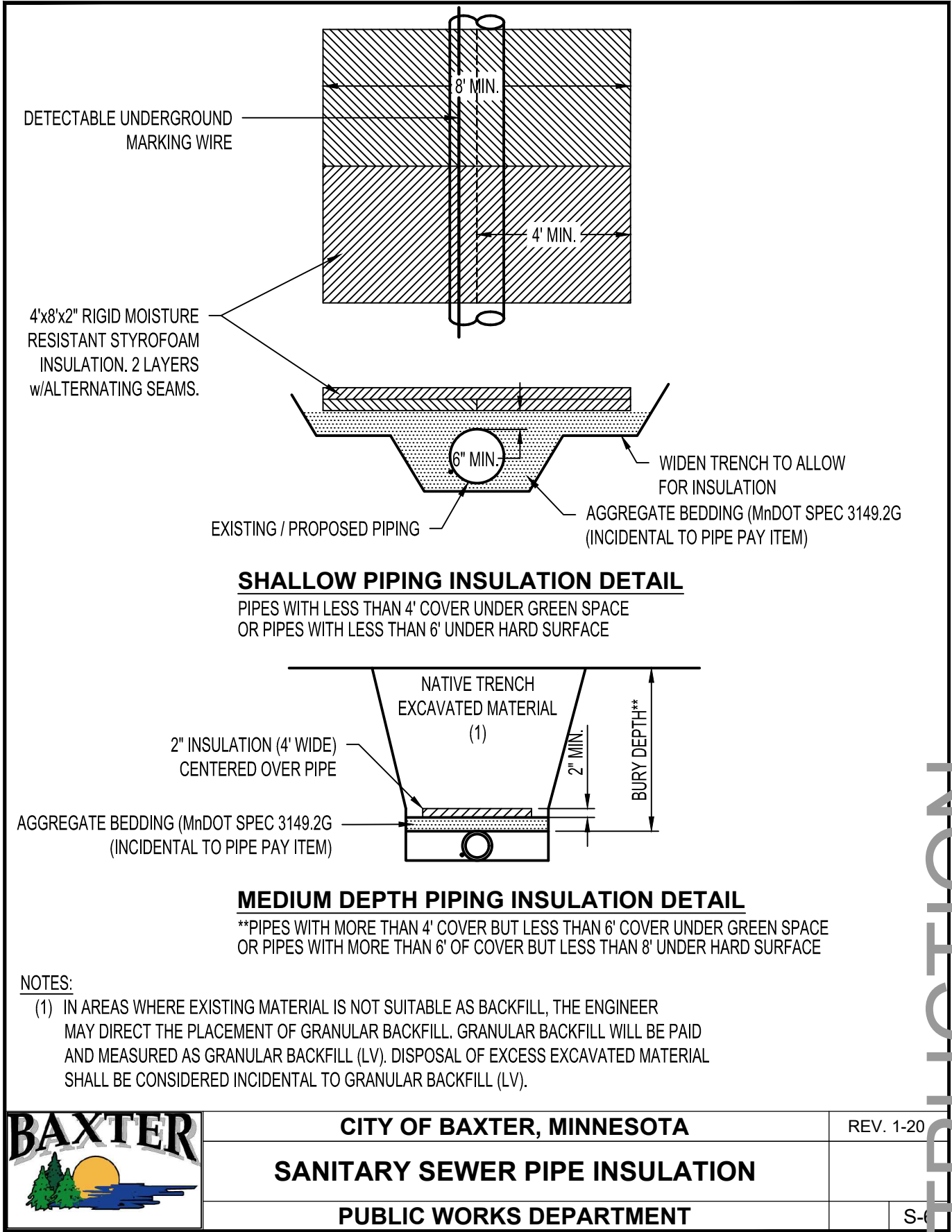
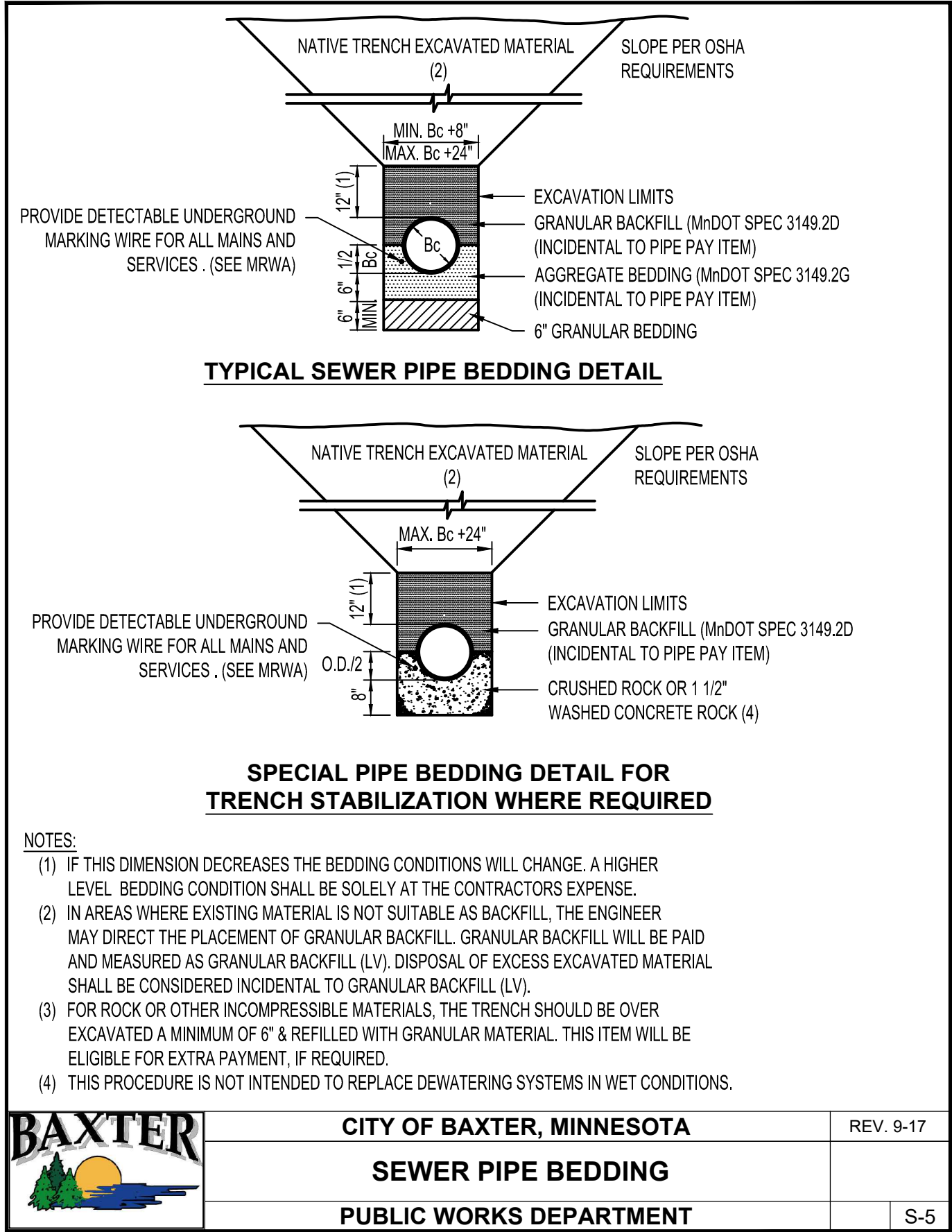
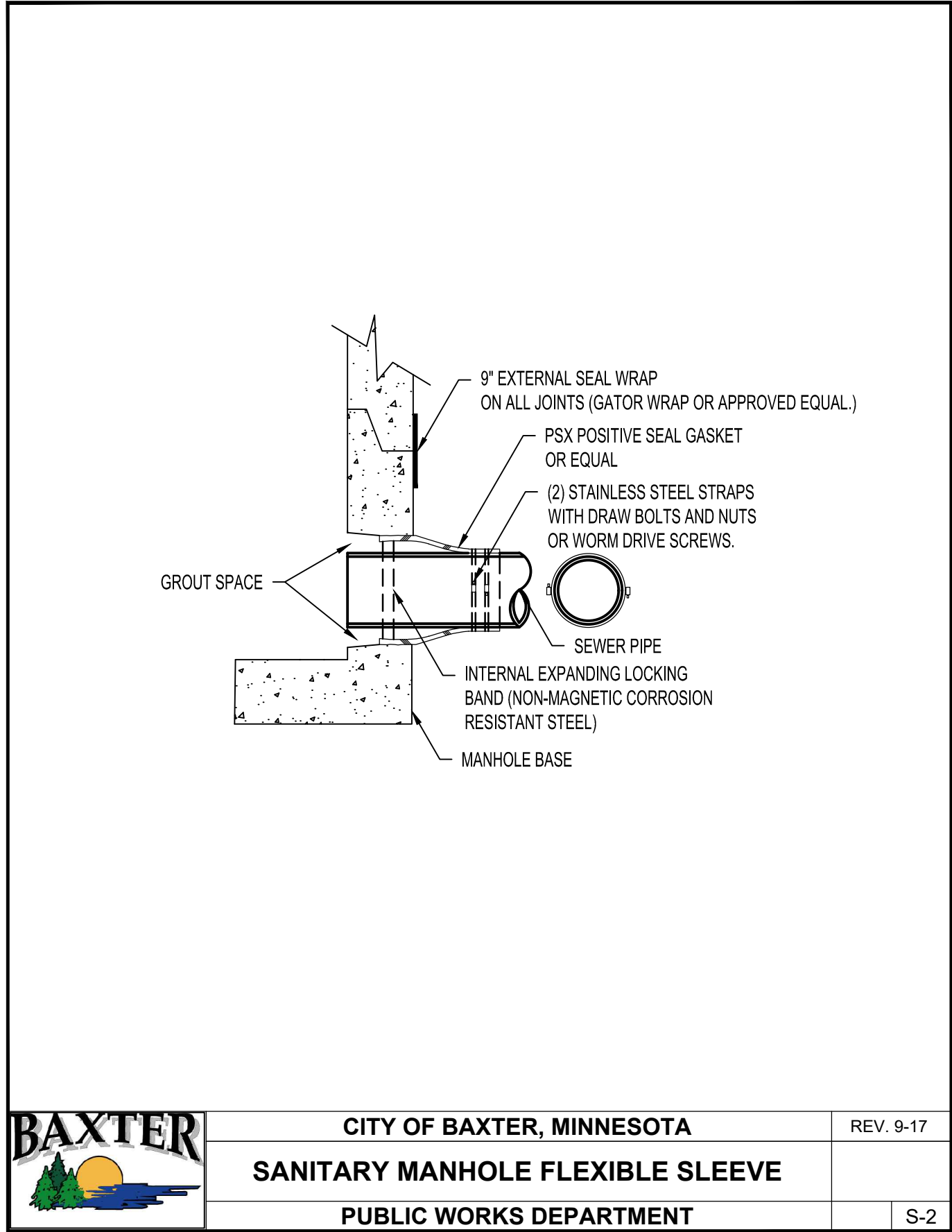
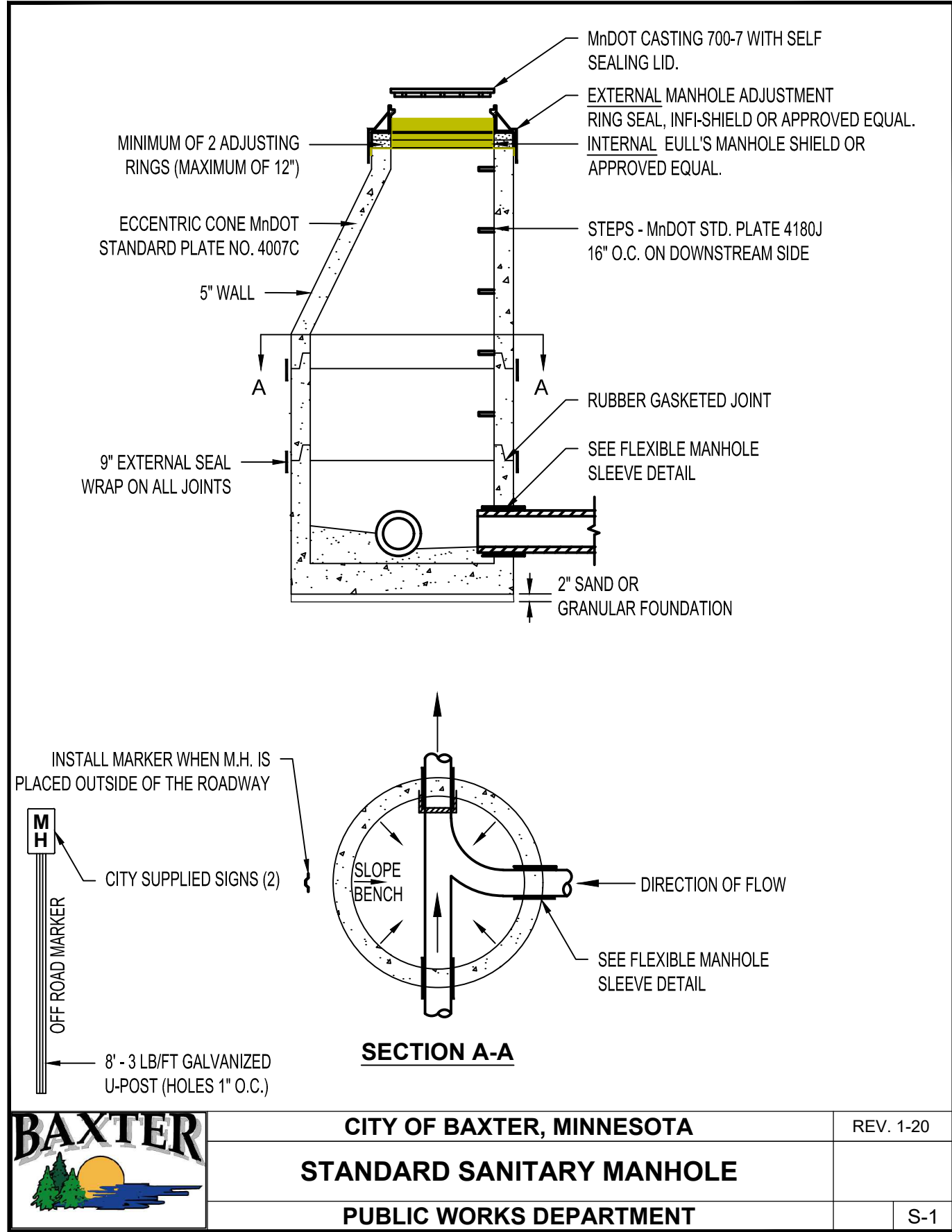
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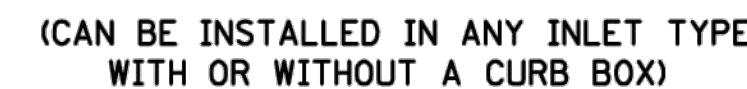


PRELIMINARY - NOT FOR CONSTRUCTION

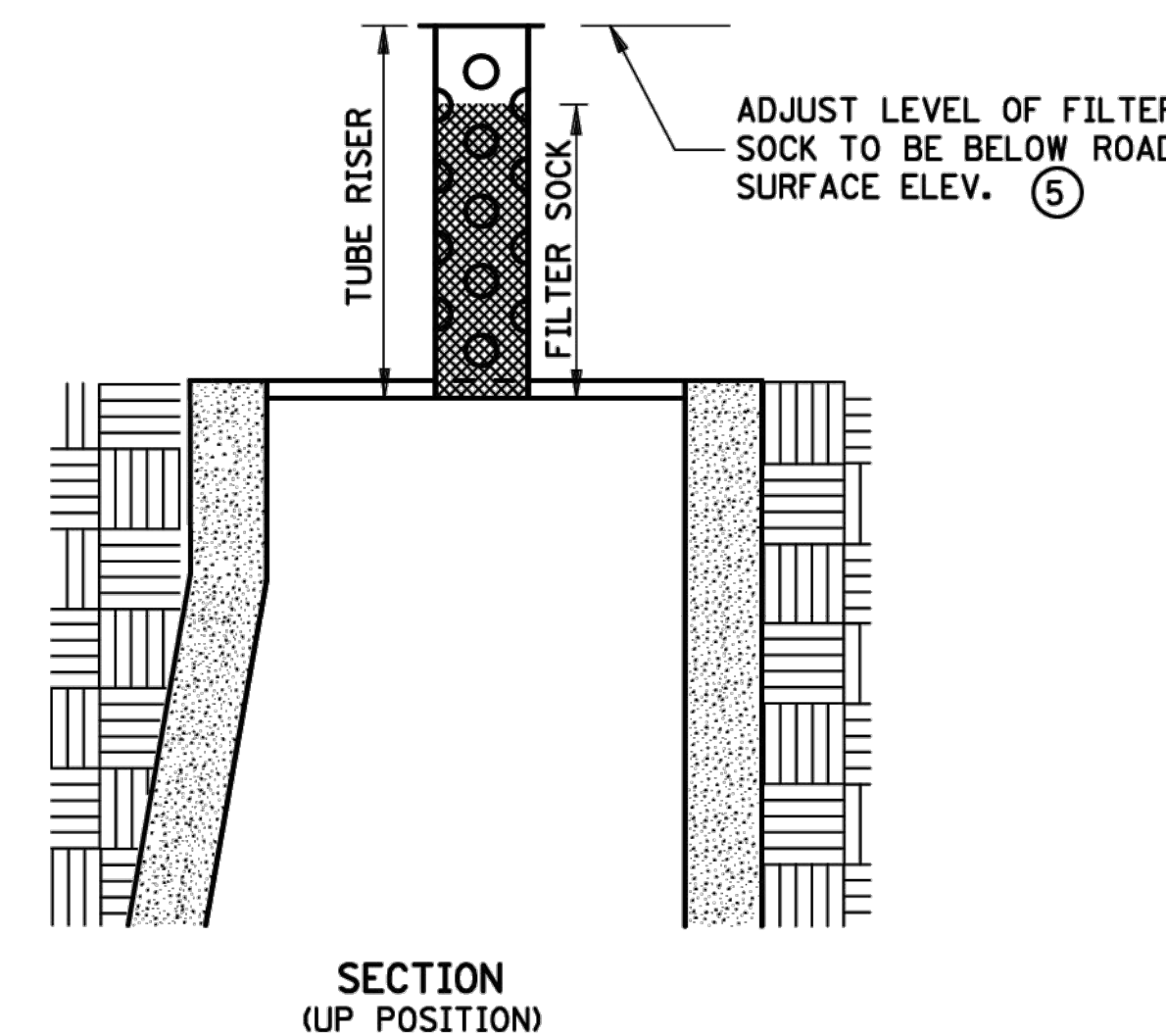








NOTE:  
THE SEDIMENT CONTROL BARRIER SHALL BE A METAL  
OR PLASTIC/POLYETHYLENE RISER SIZED TO FIT INSIDE  
THE CATCH BASIN/MANHOLE; HAVE PERFORATIONS TO ALLOW  
FOR WATER INFILTRATION; HAVE AN OVERFLOW OPENING,  
FLANGES AND A LID/COVER.




**NOTES:**  
SEE SPECS. 2573, 3137, & 3886.

DEVICES MUST BE ADJUSTED ACCORDINGLY AS TO NOT CAUSE FLOODING ON ROADWAY  
THAT WOULD IMPEED TRAFFIC FLOW.

- ① ALL GEOTEXTILE USED FOR INLET PROTECTION SHALL BE MONOFILAMENT IN BOTH DIRECTIONS, MEETING SPEC. 3886.
- ② FINISHED SIZE, INCLUDING POCKETS WHERE REQUIRED SHALL EXTEND A MINIMUM OF 10 INCHES AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ③ INSTALLATION NOTES:  
DO NOT PLACE FILTER BAG INSERT IN INLETS SHALLOWER THAN 30 INCHES, MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. THE PLACED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE OF 3 INCHES BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES. WHERE NECESSARY THE CONTRACTOR SHALL CLINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3 INCH SIDE CLEARANCE.
- ④ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2 INCH X 4 INCH OR USE A ROCK SOCK OR SAND BAGS IN PLACE OF THE FLAP POCKETS.
- ⑤ SOCK HEIGHT MUST NOT BE SO HIGH AS TO SLOW DOWN WATER FILTRATION TO CAUSE FLOODING OF THE ROADWAY.
- ⑥ GEOTEXTILE SOCK BETWEEN 4-10 FEET LONG AND 4-6 INCH DIAMETER. SEAM TO BE JOINED BY TWO ROWS OF STITCHING WITH A PLASTIC MESH BACKING OR PROVIDE A HEAT BONDED SEAM (OR APPROVED EQUIVALENT). FILL ROCK LOG WITH OPEN GRADED AGGREGATE CONSISTING OF SOUND DURABLE PARTICLES OF COARSE AGGREGATE CONFORMING TO SPEC. 3137 TABLE 3137-1: CA-3 GRADATION.

REVISION:

APPROVED: 2-28-2017

  
CHIEF ENVIRONMENTAL OFFICER



STANDARD PLAN 5-297.405

4 OF 8

APPROVED: 2-28-2017  
REVISED:

STATE PROJ. NO.

## TEMPORARY SEDIMENT CONTROL

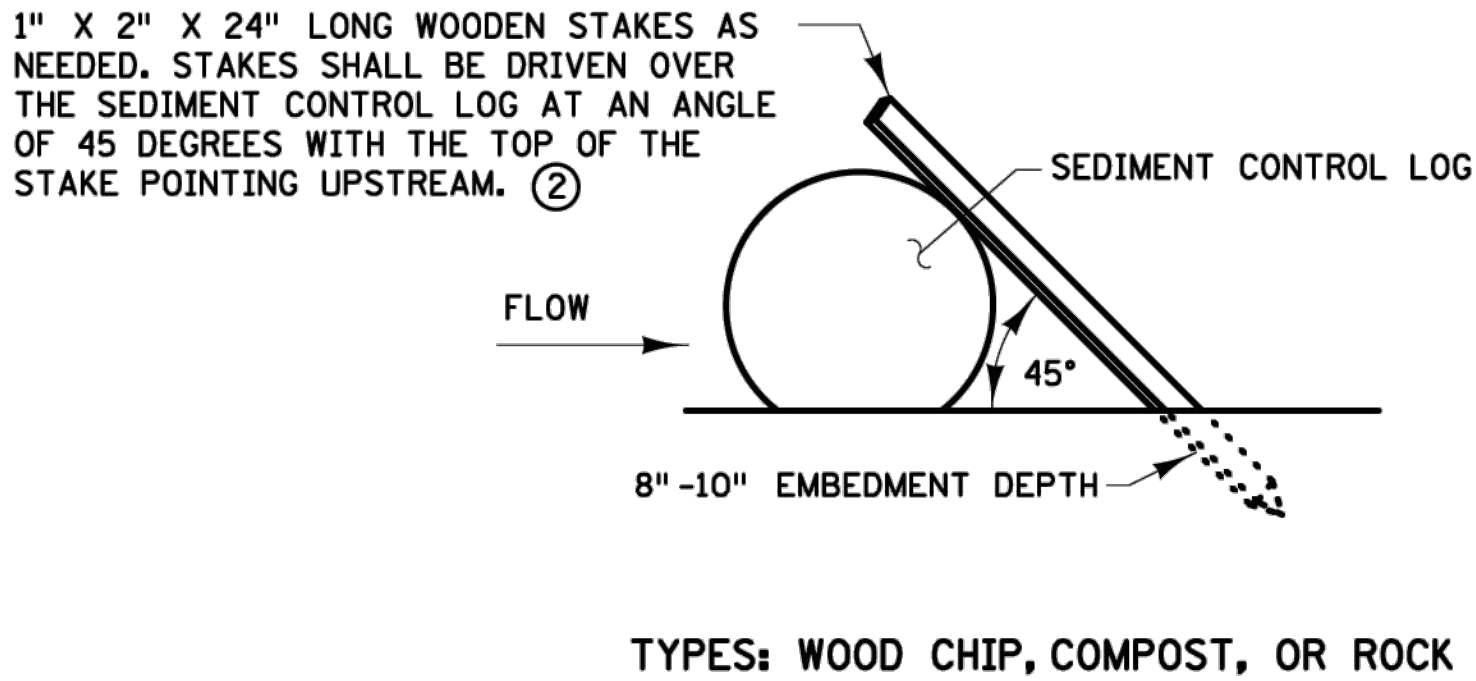
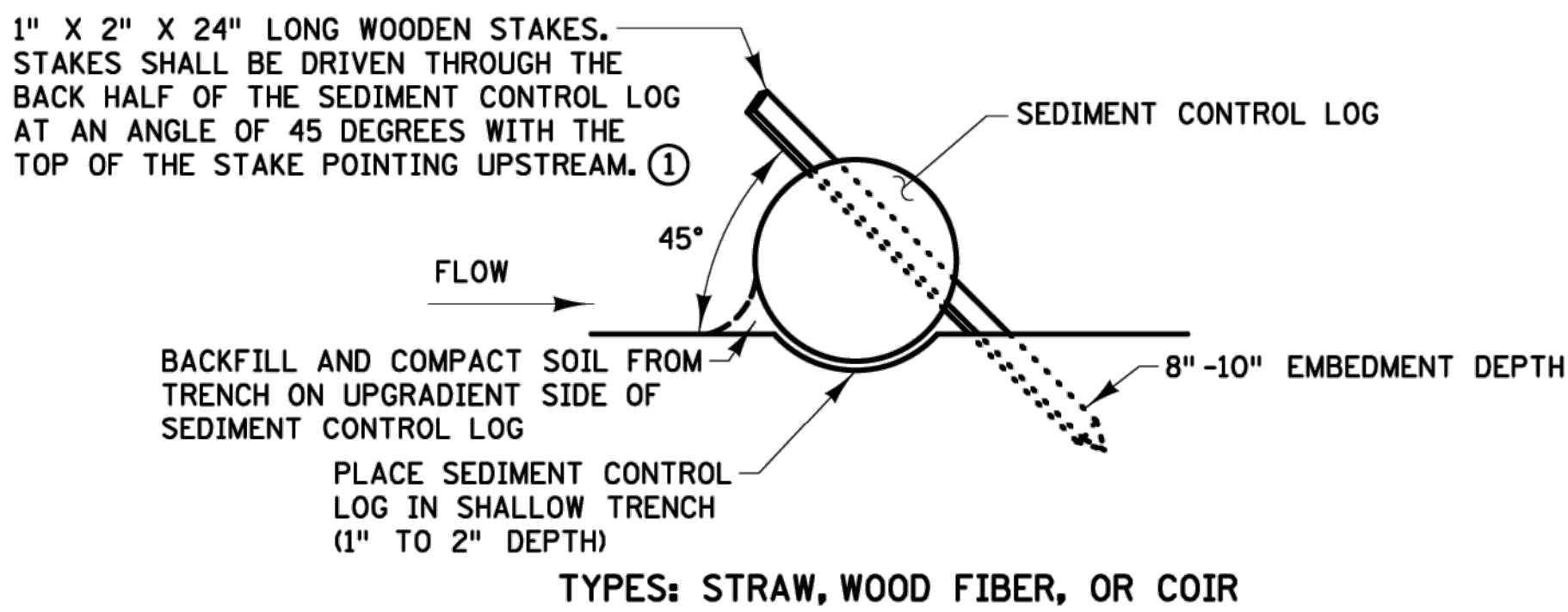
## STORM DRAIN INLET PROTECTION

(T.H. ) SHEET NO. OF SHEETS

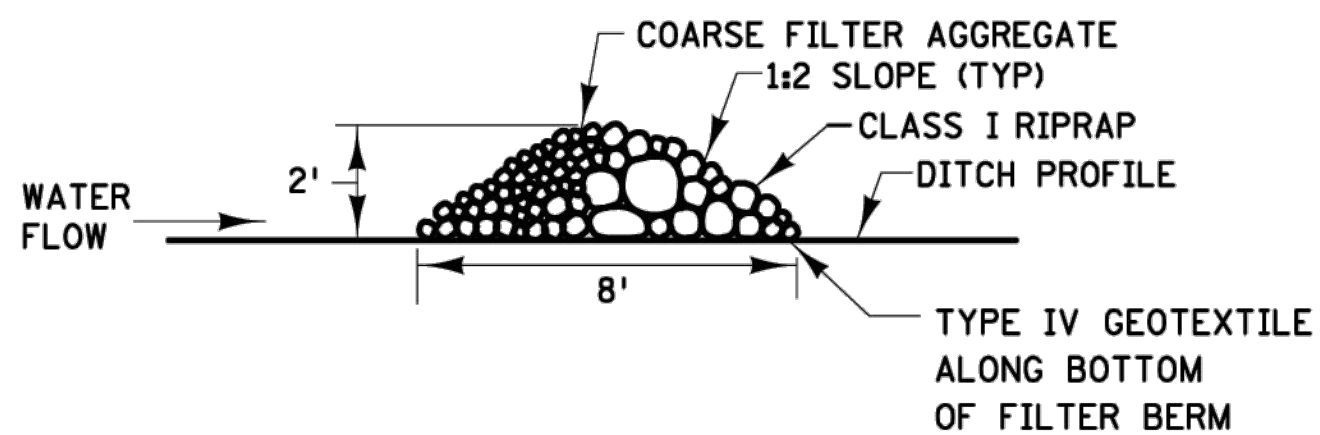


PLOTTED/REVISED: 24-JAN-2020

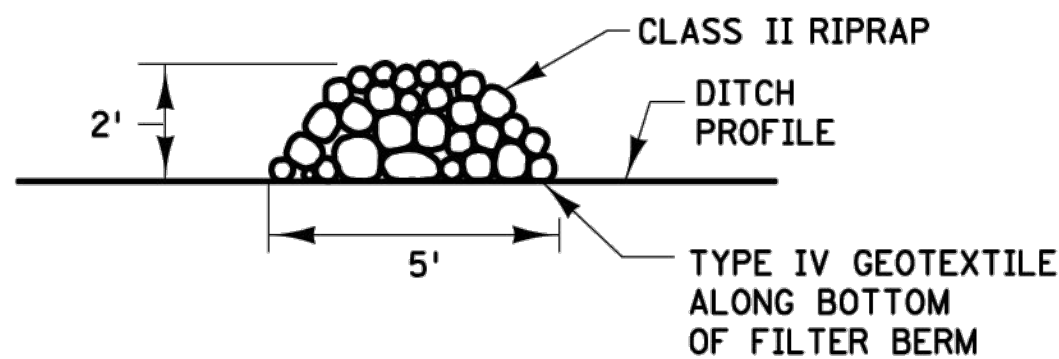
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### SEDIMENT CONTROL LOGS

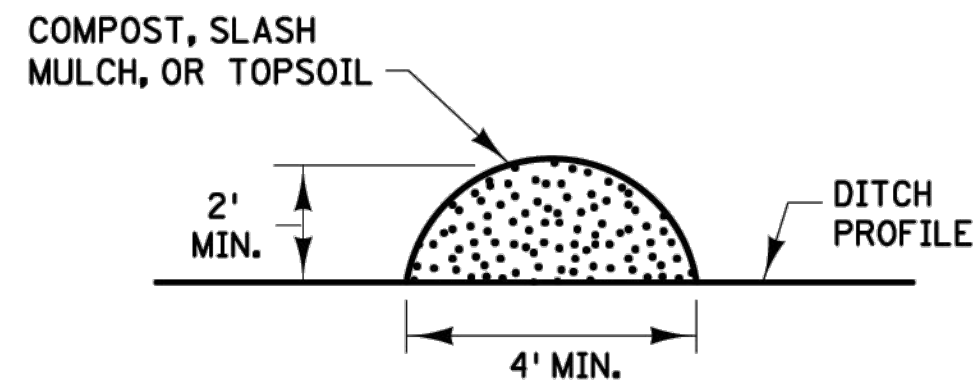


TYPE 3 (ROCK WEEPER)

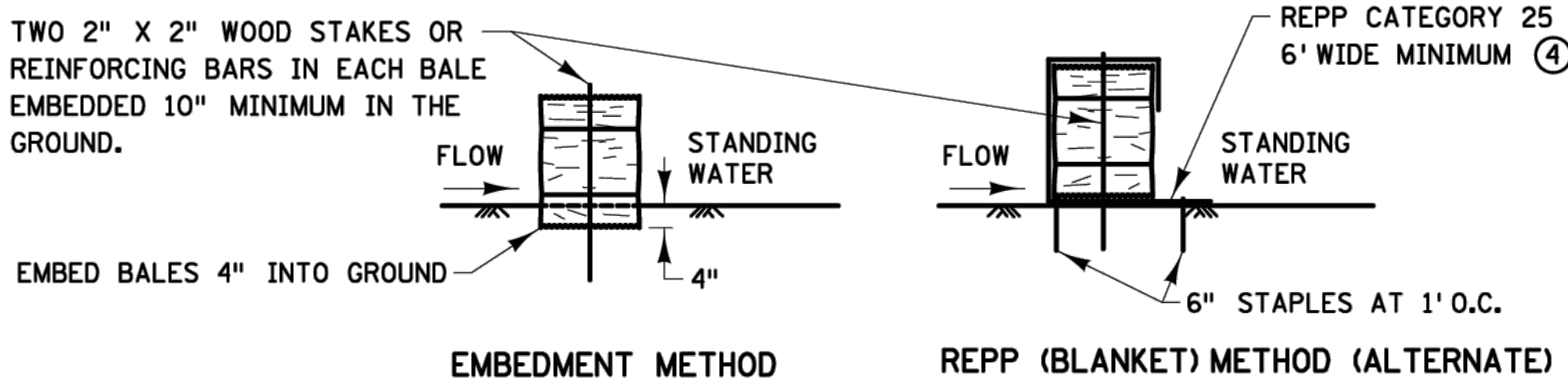


TYPE 5 (ROCK)

### FILTER BERMS



TYPE 1 (COMPOST), TYPE 2 (SLASH MULCH), OR TYPE 4 (TOPSOIL)



### BALE BARRIERS③

### NOTES:

REPP = ROLLED EROSION PREVENTION PRODUCT.

SEE SPECS. 2573, 3149, 3874, 3882, 3885, 3886, AND 3897.

- ① SPACE BETWEEN STAKES SHALL BE A MAXIMUM OF 1' FOR DITCH CHECKS OR 2' FOR OTHER APPLICATIONS.
- ② PLACE STAKES AS NEEDED TO PREVENT MOVEMENT OF SEDIMENT CONTROL LOGS PLACED ON SLOPES OR AS NEEDED DUE TO OTHER FACTORS. STAKES SHALL BE INCIDENTAL.
- ③ TO BE USED FOR CRITICAL PERIMETER CONTROL AREAS WHERE STANDING WATER OCCURS (6" MAXIMUM DEPTH). BALES SHALL CONSIST OF TYPE 1 MULCH OF APPROXIMATELY 14" X 18" X 36" LONG. BALES SHALL BE PLACED ON EDGE AND BUTTED TIGHT TO ADJACENT BALES.
- ④ INSTEAD OF TRENCHING, PLACE BALE ON THE REPP (BLANKET) AND WRAP BLANKET AROUND THE BALE. PLACE STAKE THROUGH BALE AND BLANKET.

REVISION:
APPROVED: JANUARY 8, 2020
<i>Mari Karnowski</i>
MARINI KARNOWSKI
CHIEF ENVIRONMENTAL OFFICER



STANDARD PLAN 5-297.405

2 OF 8

*Tom S.*

THOMAS TYRBICKI

STATE DESIGN ENGINEER

APPROVED: 1-8-2020

REVISED:

STATE PROJ. NO.

### TEMPORARY SEDIMENT CONTROL

FILTER BERMS, SEDIMENT CONTROL LOGS, AND BALE BARRIERS

(T.H. )

SHEET NO.

OF

SHEETS

2024 CSAH 77 UTILITY IMPROVEMENTS

CITY OF BAXTER

BAXTER, MN

EROSION CONTROL DETAILS

SHEET NO.

7

PRELIMINARY - NOT FOR CONSTRUCTION

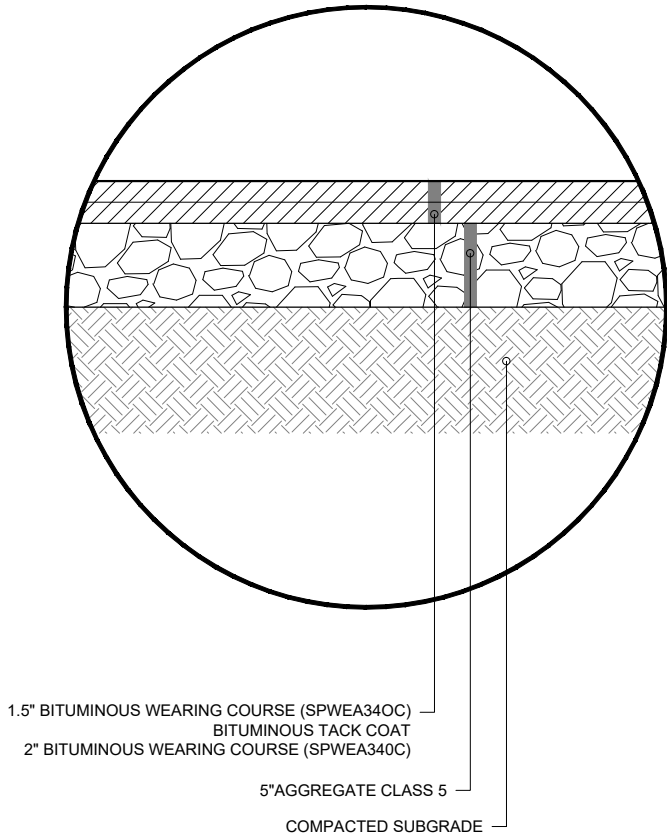
WIDSETH

ARCHITECTS • ENGINEERS • SCIENTISTS • SURVEYORS

ARIC L. WELSH

DATE: ###

LIC. NO. 41893



**REPLACEMENT BITUMINOUS PAVING SECTION**  
SCALE: NONE

**GENERAL DEMOLITION NOTES**

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02. ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".
- PRIVATE UTILITY LOCATES ARE TO BE COORDINATED WITH THE ENGINEER. THE PRIVATE LOCATES WILL BE DONE BY GOPHER STATE ONE CALL. ALL EROSION CONTROL MEASURES AS SHOWN ON THE EROSION CONTROL PLAN ARE TO BE IN PLACE PRIOR TO BEGINNING REMOVALS.
- CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, CONCRETE PAVEMENT, BITUMINOUS PAVEMENT, BUILDINGS, LIGHT POLES & BASES, ETC. NOT NOTED FOR DEMOLITION & REMOVAL DURING REMOVALS. ANY DAMAGED STRUCTURES TO REMAIN SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER.
- ALL SAWCUT EDGES IN CONCRETE WALK, CONCRETE PAVEMENT AND BITUMINOUS PAVEMENT SHALL BE PROTECTED AFTER REMOVALS THROUGH THE DURATION OF THE PROJECT. PAYMENT FOR SAWCUTTING WILL BE MADE ONLY ONCE. ADDITIONAL SAWCUTTING TO MAINTAIN A CLEAN SAWCUT EDGE WILL BE AT THE EXPENSE OF THE CONTRACTOR.
- ALL MATERIALS IDENTIFIED FOR REMOVAL SHALL BE DISPOSED OFF SITE IN ACCORDANCE WITH STATE AND LOCAL LAWS.

**UTILITY QUALITY LEVEL DEFINITIONS**

**UTILITY QUALITY LEVEL A:** PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUB-SURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. MINIMALLY INTRUSIVE EXCAVATION EQUIPMENT IS TYPICALLY USED TO MINIMIZE THE POTENTIAL FOR UTILITY DAMAGE. A PRECISE HORIZONTAL AND VERTICAL LOCATION, AS WELL AS OTHER UTILITY ATTRIBUTES, IS SHOWN ON PLAN DOCUMENTS. ACCURACY IS TYPICALLY SET TO 15-MM VERTICAL AND TO APPLICABLE HORIZONTAL SURVEY AND MAPPING ACCURACY AS DEFINED OR EXPECTED BY THE PROJECT ENGINEER.

**UTILITY QUALITY LEVEL B:** INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. QUALITY LEVEL B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

**UTILITY QUALITY LEVEL C:** INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

**UTILITY QUALITY LEVEL D:** INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

UTILITY OWNERS	
CITY OF BAXTER	218-454-5116
MN DOT	651-366-5750
ELECTRICAL	
CROW WING CO-OP	218-821-7672
COMMUNICATIONS	
CENTURY LINK	3030-260-4929
CHARTER COMMUNICATIONS	833-493-4939
CONSOLIDATED COMMUNICATIONS	888-608-7822
CONSOLIDATED TELEPHONE	218-454-1504
SAVAGE COMMUNICATIONS	320-384-7442
TDS TELECOM	218-821-7672
NATURAL GAS	
XCEL ENERGY	888-968-9235

**GENERAL EROSION CONTROL NOTES**

- ALL CONSTRUCTION SHALL CONFORM TO LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPPDES) PERMIT REQUIREMENTS.
- ALL SILT FENCE AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY EXCAVATION/CONSTRUCTION AND SHALL BE MAINTAINED UNTIL VIABLE TURF OR GROUND COVER HAS BEEN ESTABLISHED. MAINTENANCE AND REMOVAL OF SEDIMENT CONTROL DEVICES SHALL BE INCIDENTAL TO THE GRADING CONTRACT.
- ALL STREETS UTILIZED FOR PROJECT CONSTRUCTION MUST BE CLEANED AT THE END OF EACH DAY. A ROCK ENTRANCE TO THE SITE MUST BE PROVIDED ACCORDING TO THE DETAILS TO REDUCE TRACKING OF SEDIMENT ONTO PUBLIC STREETS. STREET SWEEPING MAY BE NECESSARY AND WILL BE CONSIDERED INCIDENTAL.
- ALL EXPOSED SOILS MUST BE STABILIZED WITHIN 14 CALENDAR DAYS OF ROUGH GRADE COMPLETION OF AFTER CONSTRUCTION TERMINATES. ALL STOCKPILES SHALL HAVE ADEQUATE SEDIMENT TRAPPING SYSTEMS INSTALLED AROUND THEM.
- ALL AREAS TO BE ESTABLISHED TO GRASS COVER SHALL RECEIVE 4" OF TOPSOIL AND SOD OR SEED. THESE AREAS SHALL BE WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- INLET PROTECTION SHALL BE INSTALLED AT ALL STORM SEWER INLETS WHICH HAVE A POTENTIAL TO RECEIVE RUNOFF FROM THE CONSTRUCTION SITE.
- SEE PLAN LEGEND FOR A COMPLETE LIST OF HATCHES AND SYMBOLS USED FOR EROSION CONTROL.

MNDOT STANDARD PLATES	
THE FOLLOWING STANDARD PLATES, APPROVED BY THE DEPARTMENT OF TRANSPORTATION & THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT	
PLATE NO.	DESCRIPTION
4010I	CONCRETE ADJUSTING RINGS RING CASTING FOR MANHOLE OR CATCH BASIN COVER CASTING FOR MANHOLE MANHOLE OR CATCH BASIN STEP TEMPORARY CHANNELIZERS (3 SHEETS)
4101D	
4110F	
4180J	
8000K	

**GENERAL UTILITY NOTES**

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-.2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".
- THE ENGINEER HAS MADE AN ATTEMPT TO SHOW ALL PUBLIC UTILITIES WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT. PUBLIC UTILITIES SHOWN ON THIS PLAN WERE DRAWN USING FIELD SURVEY INFORMATION AND MAPS PROVIDED TO THE ENGINEER BY THE UTILITY COMPANIES AS A RESULT OF A GOPHER STATE ONE CALL DESIGN LOCATE REQUEST. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE LOCATIONS PRIOR TO BIDDING AND CONSTRUCTING THE PROJECT.
- PRIVATE UTILITY LOCATES ARE TO BE COORDINATED WITH THE ENGINEER. THE PRIVATE LOCATES WILL BE DONE BY GOPHER STATE ONE CALL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION LOCATES AND SHALL NOTIFY ALL AFFECTED UTILITY COMPANIES AT LEAST 48-HOURS BEFORE CONSTRUCTION.
- UNLESS OTHERWISE NOTED, ALL MATERIALS, CONSTRUCTION TECHNIQUES AND TESTING SHALL CONFORM TO THE 2013 EDITION OF THE "STANDARD SPECIFICATIONS FOR TRENCH EXCAVATION AND BACKFILL/SURFACE RESTORATION, WATERMAIN AND SERVICE LINE INSTALLATION AND SANITARY SEWER AND STORM SEWER INSTALLATION" AS PUBLISHED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA AND THE "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AS PUBLISHED BY THE MINNESOTA DEPARTMENT OF TRANSPORTATION, 2020 EDITION. THE CONTRACTOR SHALL BE REQUIRED TO FOLLOW ALL PROCEDURES AS OUTLINED BY THE LOCAL AGENCY AND THE MINNESOTA PLUMBING CODE. THE CONTRACTOR SHALL REQUIRE ALL PROCEDURES AS OUTLINED BY THE LOCAL AGENCY.
- THE CONTRACTOR SHALL RECEIVE THE NECESSARY PERMITS FOR ALL WORK OUTSIDE THE PROPERTY LIMITS.
- WATER SERVICE LINES SHALL BE INSTALLED WITH A MINIMUM OF 8.5 FEET OF COVER.
- RIM ELEVATIONS REFLECT A SUMP OF 0.05 FEET.
- PROVIDE WATER MAIN THRUST RESTRAINTS PER CITY STANDARD REQUIREMENTS.
- A MINIMUM OF 18 INCH VERTICAL SEPARATION SHALL BE REQUIRED AT ALL WATER MAIN CROSSINGS WITH SANITARY SEWER AND STORM SEWER.

BASIS FOR ESTIMATED QUANTITIES	
BITUMINOUS WEARING COURSE	
BITUMINOUS MIXTURE	115LBS./SQ.YD./INCH THICKNESS
AGGREGATE	
AGGREGATE BASE - CLASS 5	110LBS./SQ.YD./INCH THICKNESS
ITEM HEADER	
SEED - 22-111	100LBS/ACRE
SEED - 25-131	400LBS/ACRE
SEED - 34-171	32.5LBS/ACRE
HYDRAULIC REINFORCED FIBER MATRIX	3900LBS/ACRE
FERTILIZER TYPE 3 (10-10-20) (SEEDING)	300LBS/ACRE

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2024 CSAH 77 UTILITY IMPROVEMENTS

CITY OF BAXTER

BAXTER, MN

MISC. NOTES & TABLES

SHEET NO.

8

BY: [REDACTED]

REVISIONS: [REDACTED]

DATE: [REDACTED]

MONTH, YEAR AS SHOWN: [REDACTED]

SCALE: [REDACTED]

DRAWN BY: [REDACTED]

CHECKED BY: [REDACTED]

JOB NUMBER: [REDACTED]

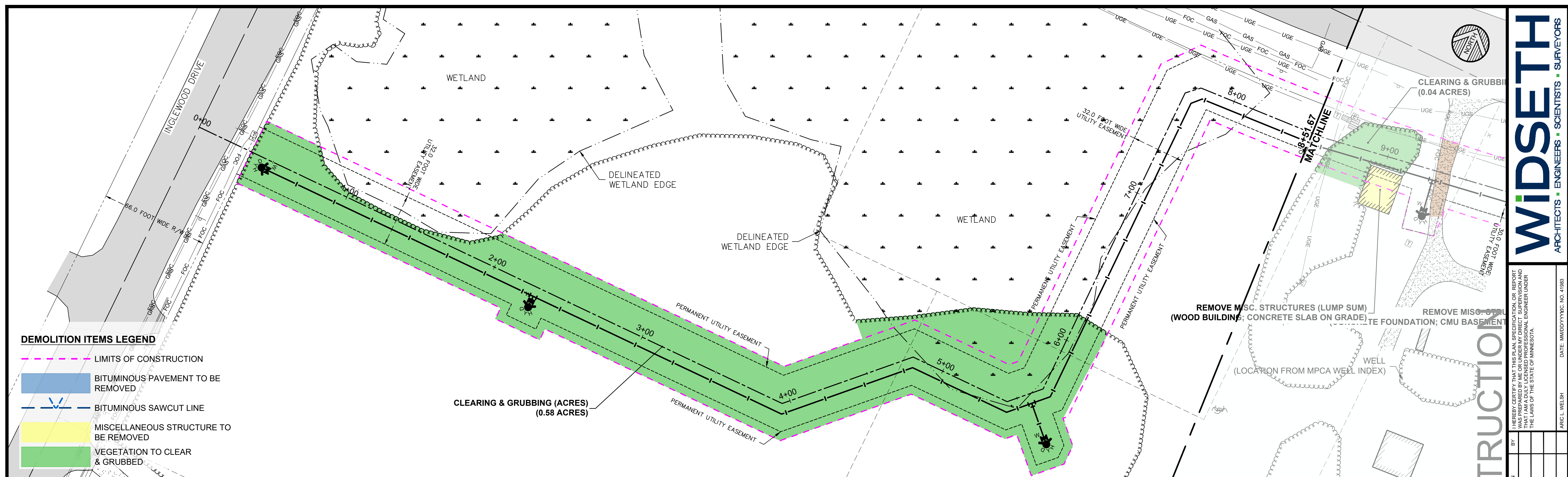
PREPARED BY: [REDACTED]

DATE: [REDACTED]

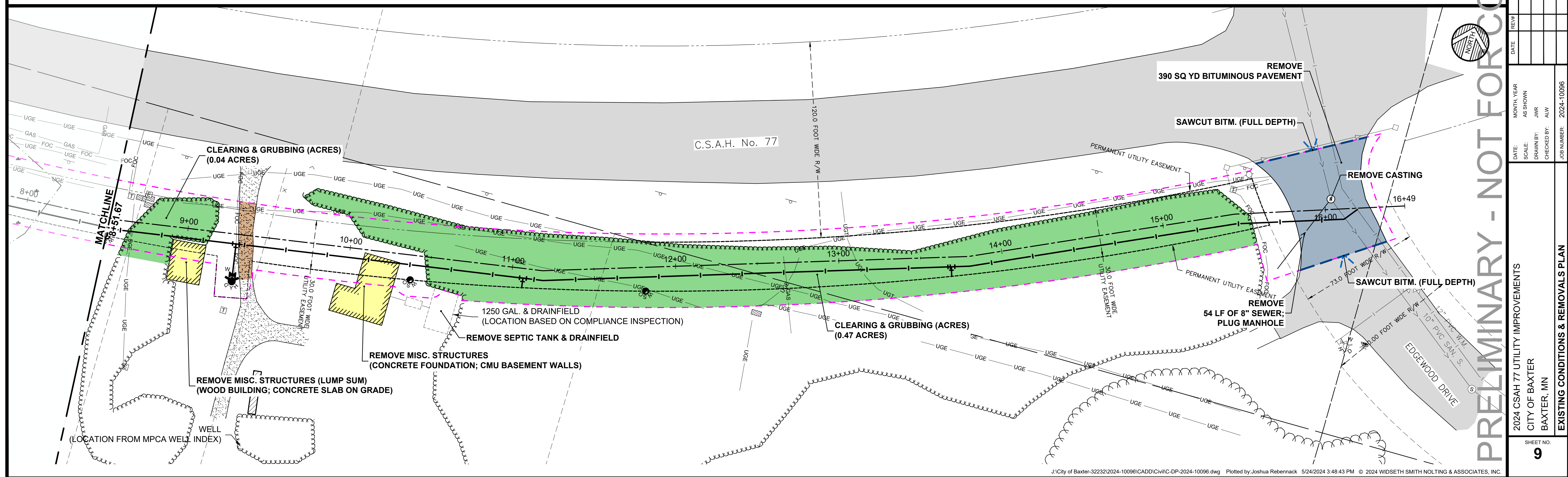
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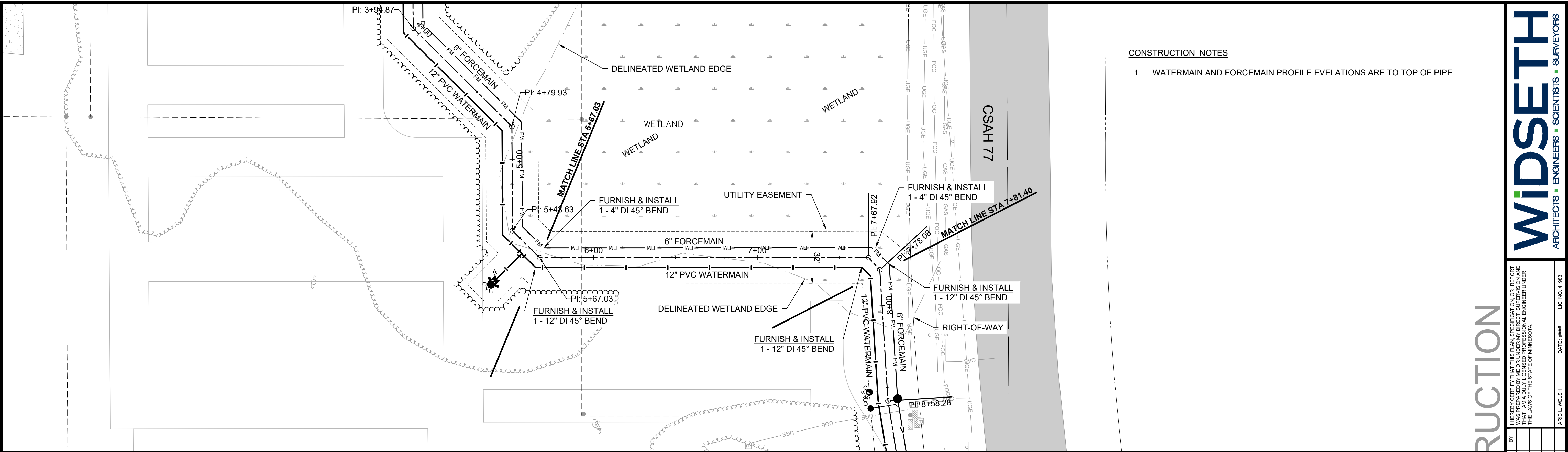
## EXISTING CONDITIONS & REMOVALS PLAN





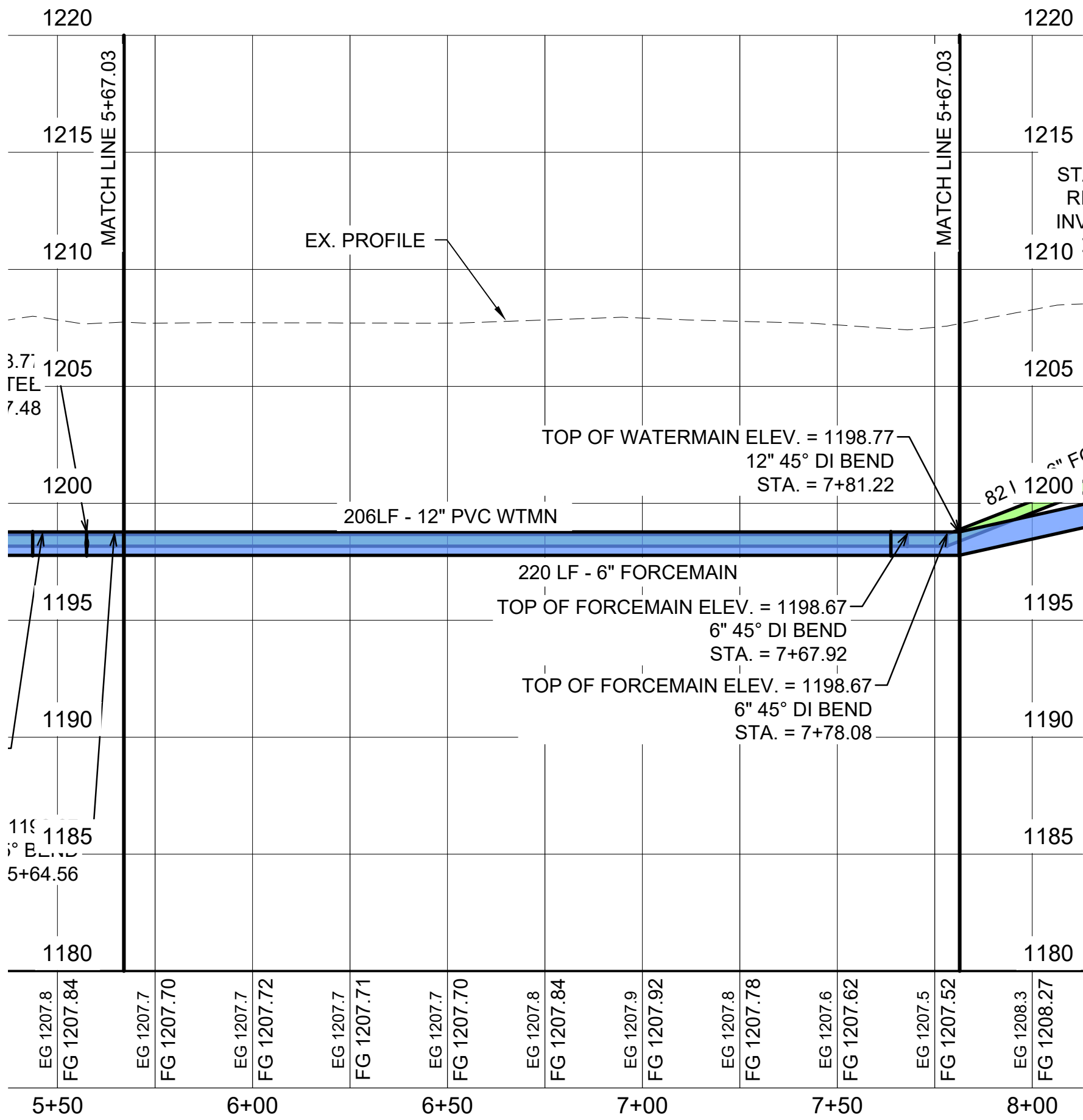






- CONSTRUCTION NOTES
1. WATERMAIN AND FORCEMAIN PROFILE EVELATIONS ARE TO TOP OF PIPE.

## SANITARY SEWER ALIGNMENT



PRELIMINARY - NOT FOR CONSTRUCTION

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2024 CSAH 77 UTILITY IMPROVEMENTS

CITY OF BAXTER

BAXTER, MN

UTILITY PLAN & PROFILE

SHEET NO. 11

DATE: MONTH, YEAR AS SHOWN

SCALE: DRAWN BY: JWR

CHECKED BY: ALW

JOB NUMBER: 2024-10096

BY: REVISIONS DESCRIPTION

DATE: REV: DESCRIPTION

DATE: REV: DESCRIPTION

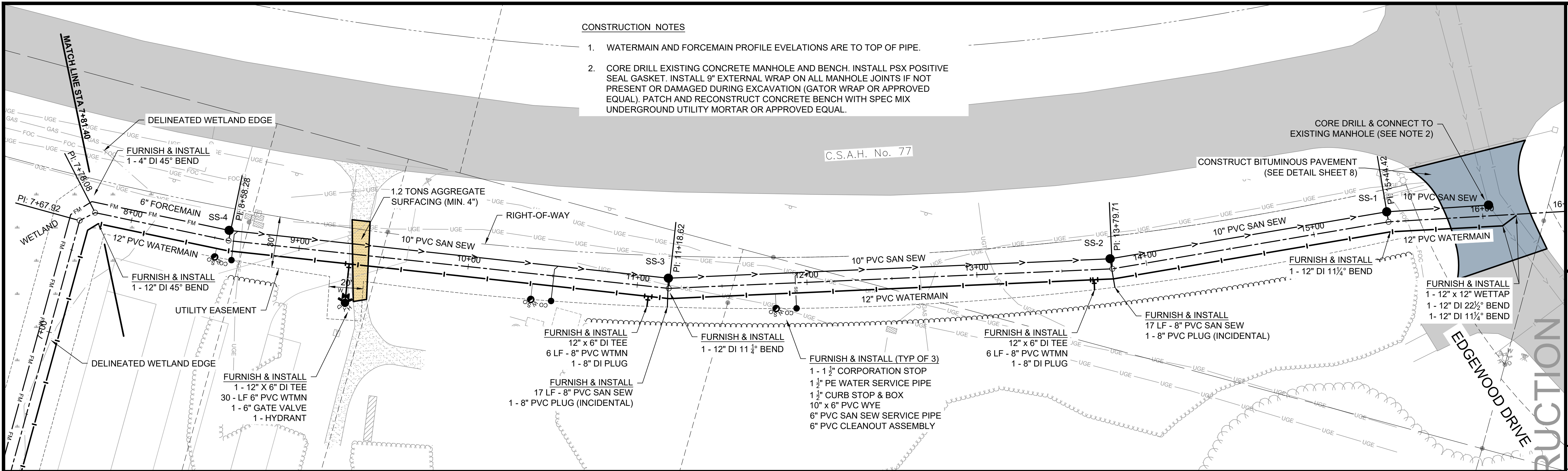
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WIDSETH ARCHITECTS, INC. IS THE DESIGNER OF RECORD FOR THIS PROJECT. THE DESIGNER'S RESPONSIBILITY IS TO THE CITY OF BAXTER AND NOT TO THE CITY OF BAXTER'S ENGINEERS OR SURVEYORS. THE DESIGNER'S RESPONSIBILITY IS TO THE CITY OF BAXTER AND NOT TO THE CITY OF BAXTER'S ENGINEERS OR SURVEYORS.

ARIC L. WELSH, DATE: ###, LIC. NO. 41893

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## SANITARY SEWER ALIGNMENT

