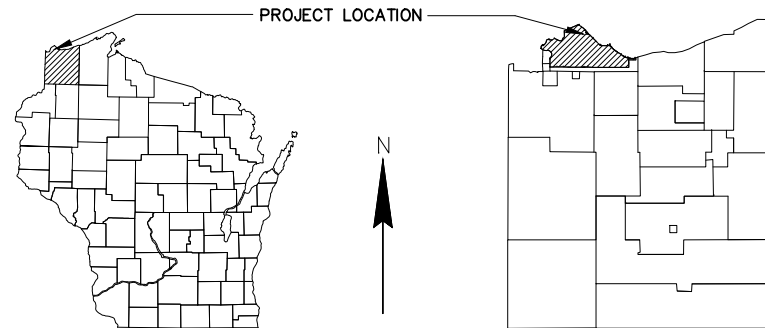


# 2019 FAXON INTERCEPTOR LINING

## NORTH OF 28TH STREET & WEST OF CATLIN AVENUE

CONSTRUCTION PLAN FOR: CURED IN PLACE PIPE LINING (CIPP)



### SHEET INDEX

- 1 TITLE
- 2 ESTIMATED QUANTITIES
- 3 OVERVIEW
- 4 PLAN & PROFILE MH3B0139-MH3B139A
- 5 PLAN & PROFILE MH3B138A-MH3B0139
- 6 MINIMUM STANDARDS GRAVITY SEWER

### LEGEND

- EXISTING SANITARY STRUCTURE
- FAXON CREEK

### UTILITIES

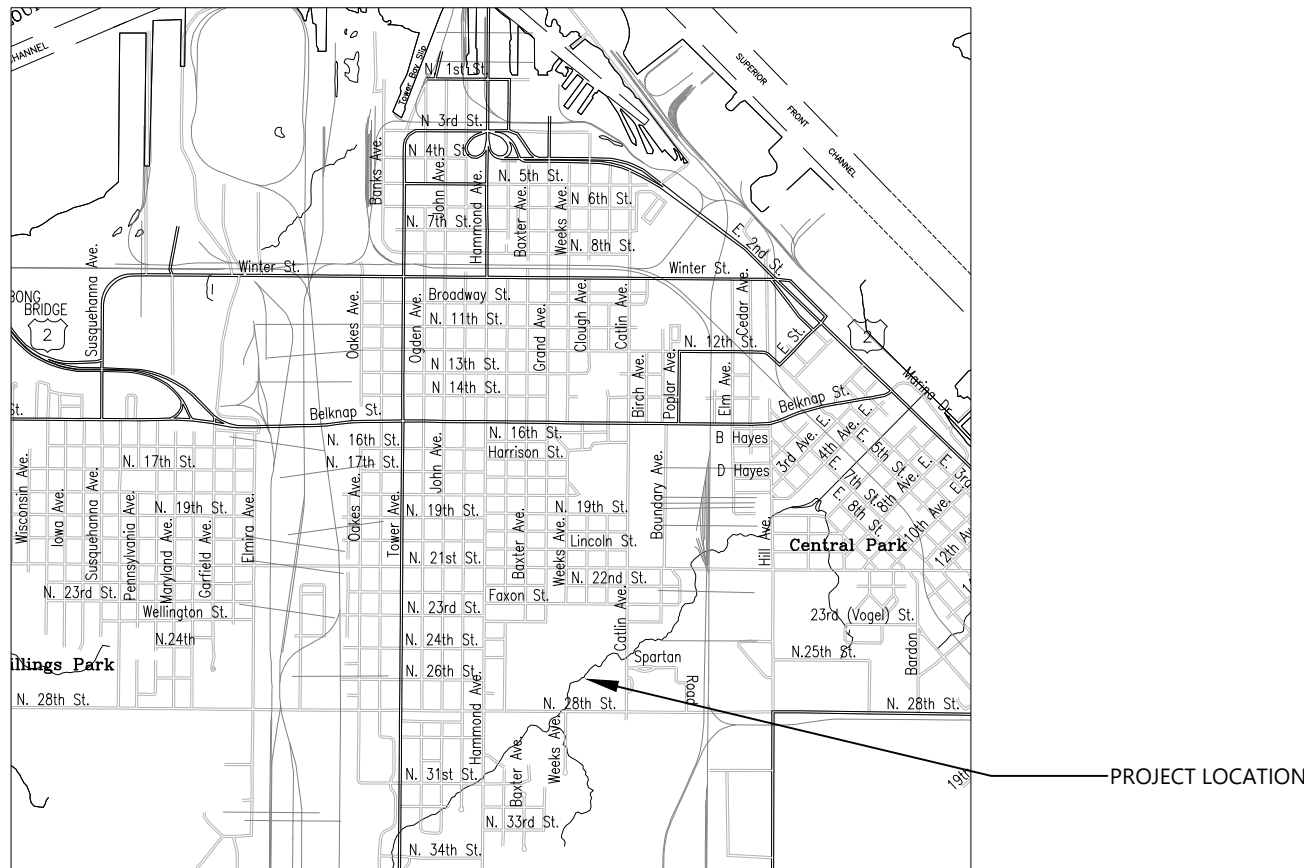
**SUPERIOR WATER, LIGHT & POWER CO.**  
 GAS & WATER  
 TROY AUNE  
 2915 HILL AVENUE  
 P.O. BOX 519  
 SUPERIOR, WI 54880  
 218-395-6346  
[TAUNE@SWLP.COM](mailto:TAUNE@SWLP.COM)

**SUPERIOR WATER, LIGHT & POWER CO.**  
 ELECTRIC  
 AARON ANDERSON  
 2915 HILL AVENUE  
 P.O. BOX 519  
 SUPERIOR, WI 54880  
 715-395-6227  
[ASANDERSON@SWLP.COM](mailto:ASANDERSON@SWLP.COM)

**CENTURYLINK**  
 RUSSELL VANCE  
 135 N. 21ST STREET  
 SUPERIOR, WI 54880  
 715-392-0045  
[RUSSELL.VANCE@CENTURYLINK.COM](mailto:RUSSELL.VANCE@CENTURYLINK.COM)

**CITY OF SUPERIOR PUBLIC WORKS**  
 TODD JANIGO  
 1316 NORTH 14TH STREET  
 SUPERIOR, WI 54880  
 715-395-7373  
[JANIGOT@CI.SUPERIOR.WI.US](mailto:JANIGOT@CI.SUPERIOR.WI.US)

**CITY OF SUPERIOR**  
 ENVIRONMENTAL SERVICES DIVISION  
 (SANITARY & STORM)  
 ERIN ABRAMSON  
 51 E 1ST STREET  
 SUPERIOR, WI 54880  
 715-394-0392  
[ABRAMSON@CI.SUPERIOR.WI.US](mailto:ABRAMSON@CI.SUPERIOR.WI.US)



### LOCATION MAP

CITY OF SUPERIOR  
 NO SCALE

GOVERNING SPECIFICATIONS:  
 THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN, SIXTH EDITION WITH ADDENDUM NO. 1 AND NO. 2 AND THE STATE OF WISCONSIN, DEPARTMENT OF TRANSPORTATION (WI DOT) STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION SHALL GOVERN THIS PROJECT

DESIGN TEAM: BRETT GUNDERSON



NOTE:  
 THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

CITY OF SUPERIOR, WI - ENVIRONMENTAL SERVICES DIVISION OF PUBLIC WORKS 2019 FAXON INTERCEPTOR LINING	TITLE	DRAWN: BG	PLOT: 2/26/2019	SHEET 1 OF 6
		APPROVED: EA		ADDENDUM: (N/A)

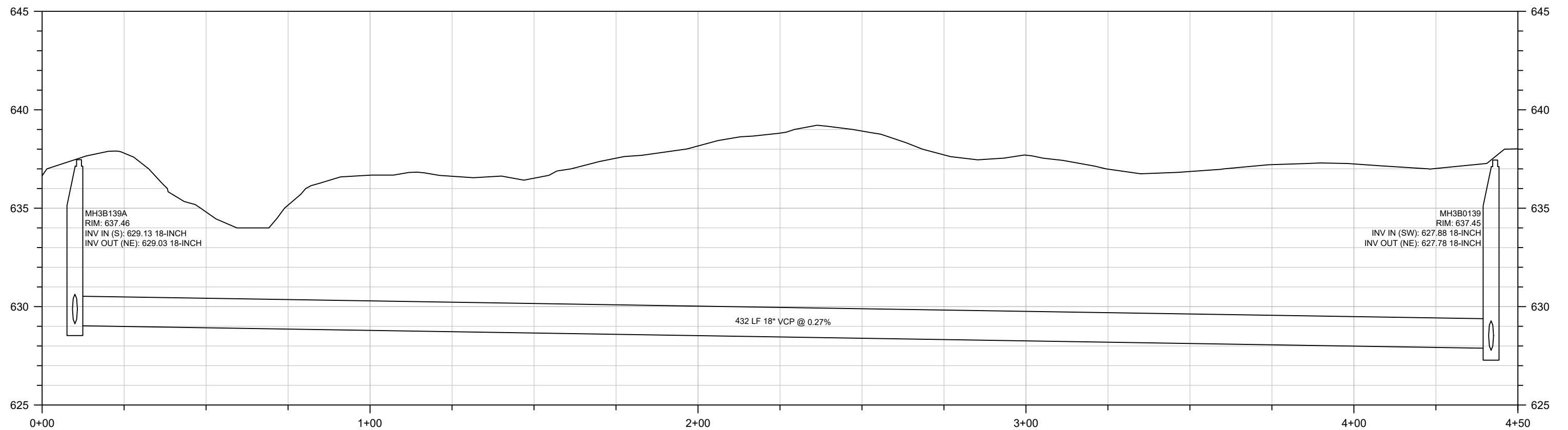
2019 FAXON INTERCEPTOR LINING - BASE BID			
ITEM	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
619.1000	Mobilization	LS	1
SPV.0090.01	Cured In Place Piping (CIPP) 18-INCH	LF	662

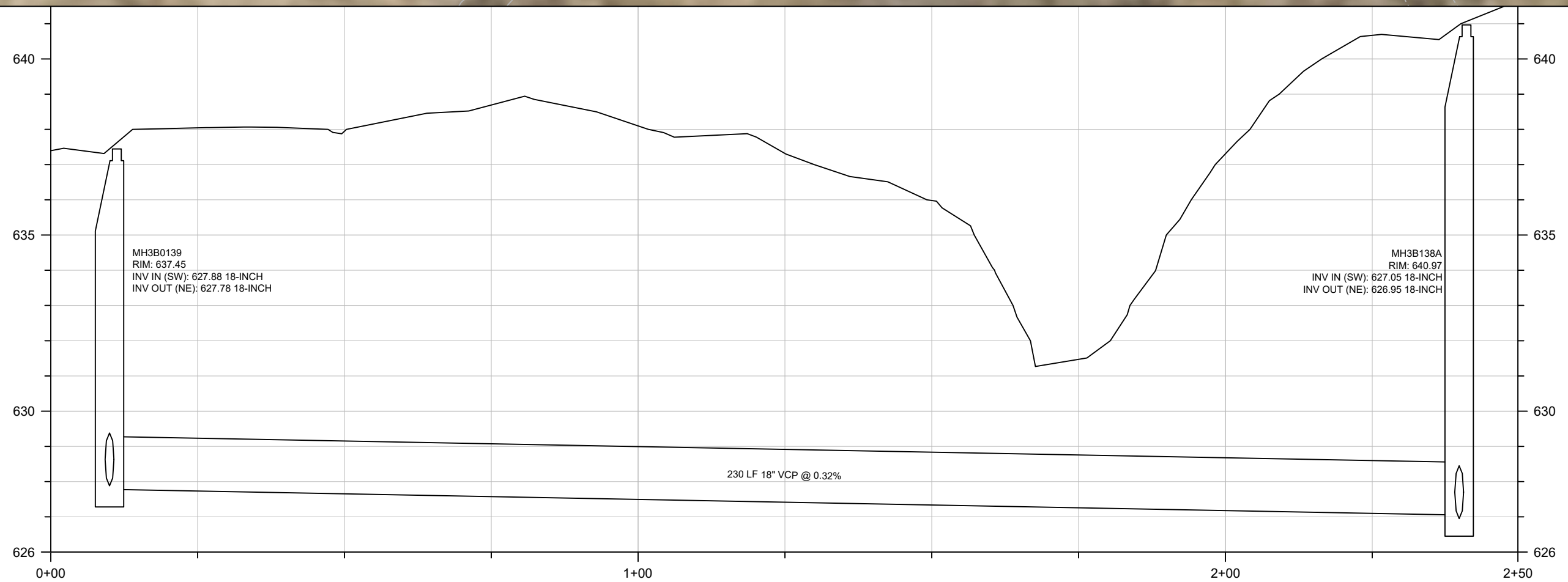
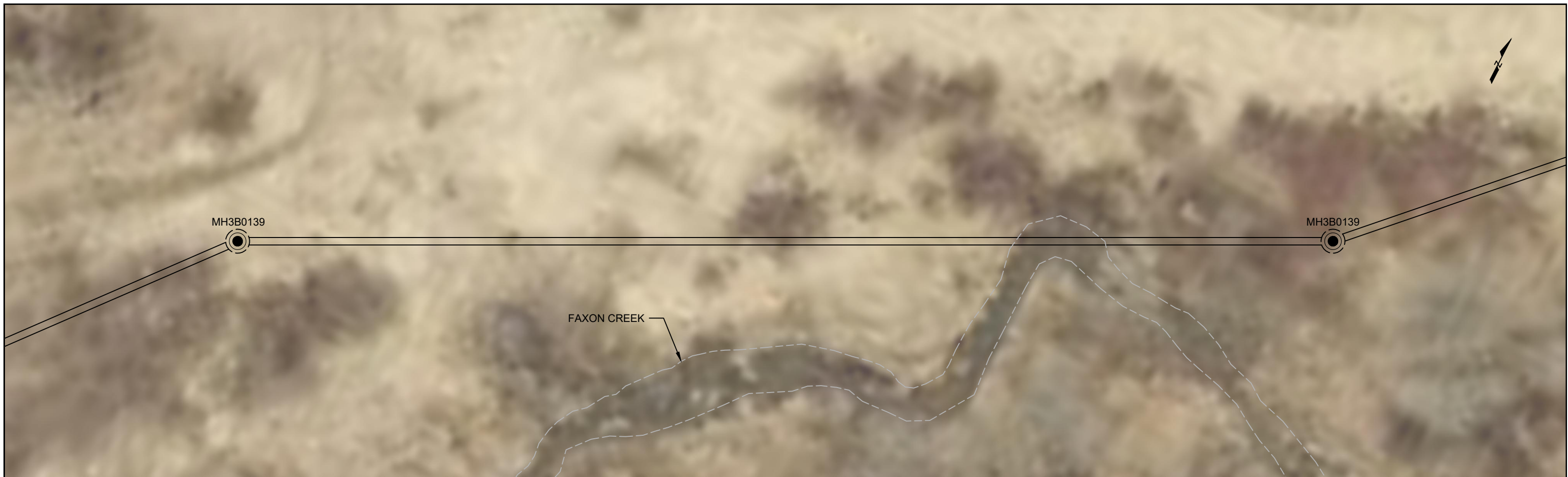
2019 FAXON INTERCEPTOR LINING - ALTERNATE 1			
ITEM	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
SPV.0060.01	Grouting 18-Inch Sewer Main	EA	250



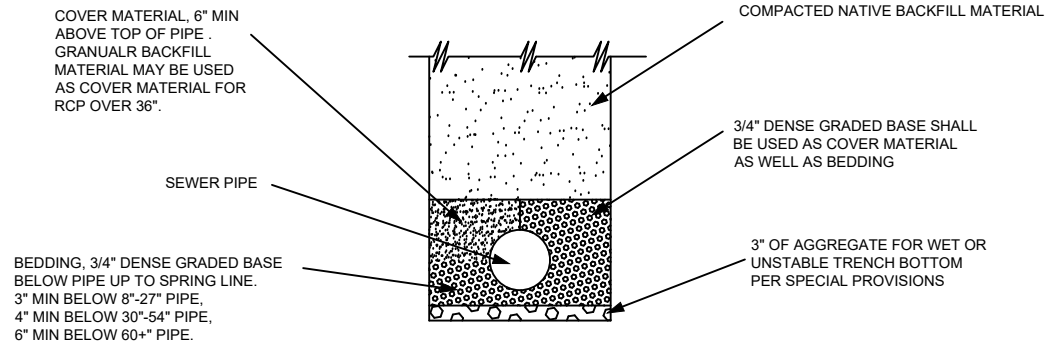


	CITY OF SUPERIOR, WI - ENVIRONMENTAL SERVICES DIVISION OF PUBLIC WORKS 2019 FAXON INTERCEPTOR LINING	OVERVIEW	DRAWN: BG APPROVED: EA	PLOT: 2/26/2019 	SHEET 3 OF 6 ADDENDUM: (N/A)
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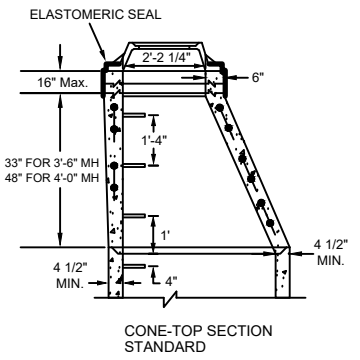
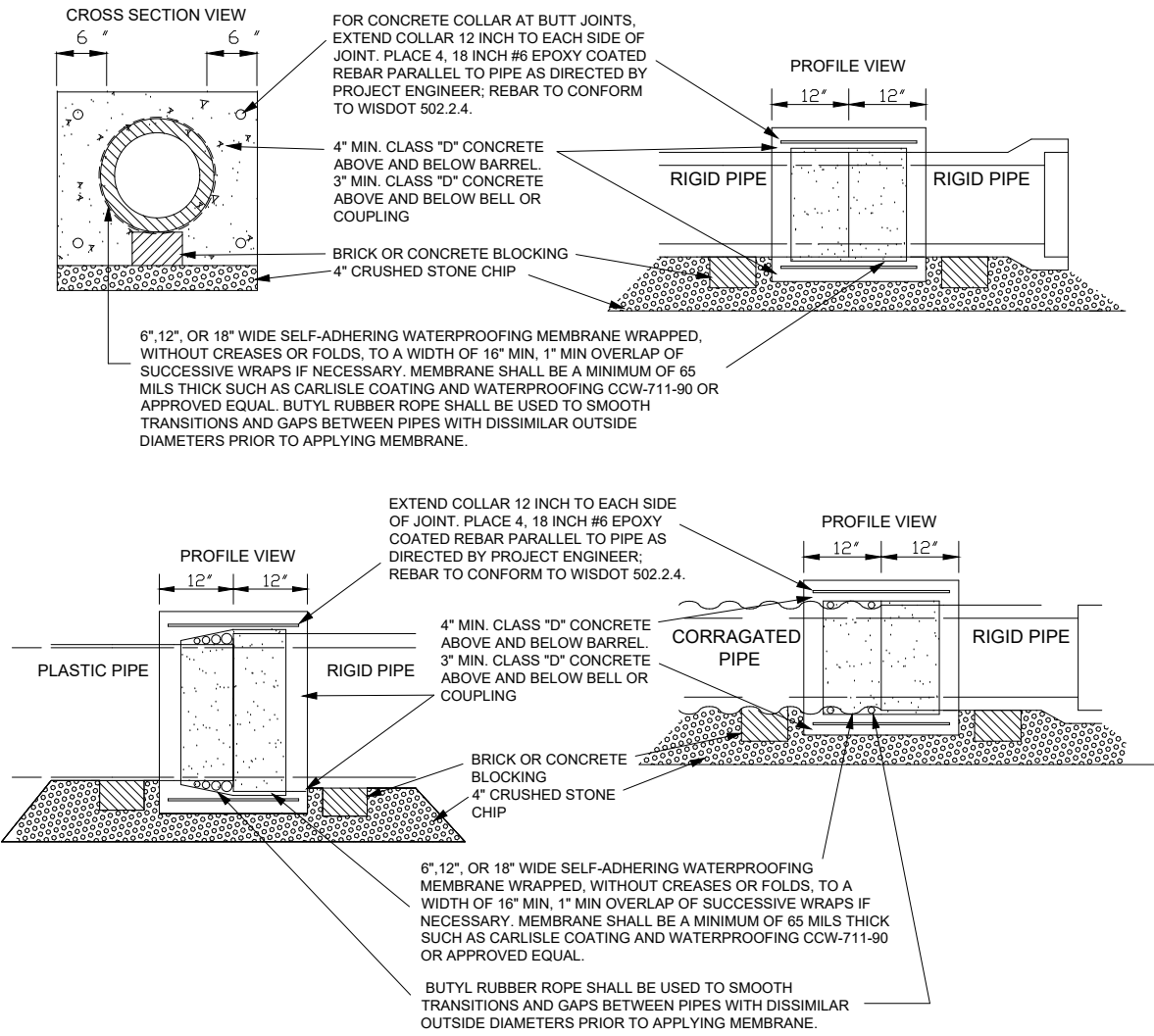




### TYPICAL TRENCH BOTTOM DETAIL



### CONCRETE COLLAR DETAIL 8"- 42" PIPE



TYPE I FRAME/CHIMNEY JOINT REQUIRED ON ALL SANITARY MANHOLES UNLESS OTHERWISE SPECIFIED. ELASTOMERIC WATERPROOFING SEALER APPLIED TO EXTERIOR AND INTERIOR CHIMNEY SEAL.

FLAT TOP SLAB MAY ONLY BE USED FOR 5'-0" AND 6'-0" DIA. MANHOLES AND WITH PERMISSION OF THE ENVIRONMENTAL SERVICES DIVISION OF PUBLIC WORKS OR WHERE SHOWN ON THE PLANS. FLAT TOP SLAB MUST HAVE A MINIMUM 6" ADJUSTING RING (1 FULL RING) INSTALLED.

ADJUST FRAME TO GRADE WITH BRICK OR CONCRETE RINGS OF VARIABLE THICKNESS. MAXIMUM RING HEIGHT = 6". MINIMUM RING HEIGHT = 2". CONCRETE RINGS SHALL BE REINFORCED WITH ONE LINE OF STEEL CENTERED WITHIN THE RING. WHERE NECESSARY, RINGS SHALL BE GROOVED TO RECEIVE STEP. THE CHIMNEY SHALL BE CONSTRUCTED SO THAT AS FEW ADJUSTING RINGS AS POSSIBLE SHALL BE USED TO BRING MANHOLE TO GRADE.

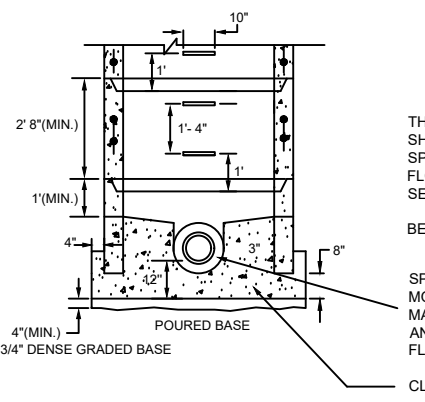
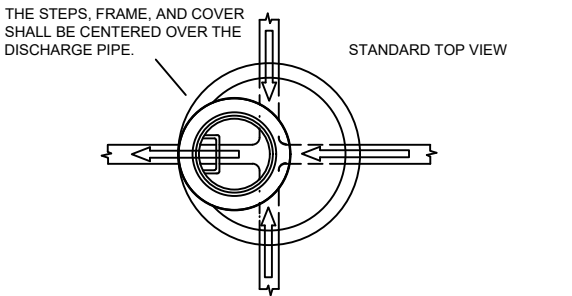
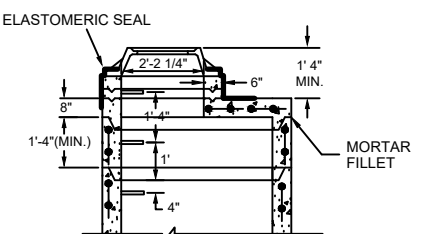
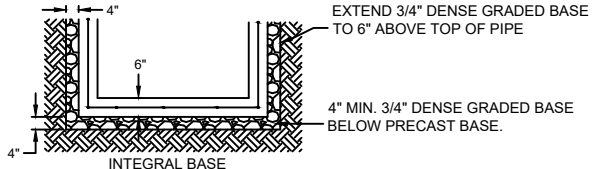
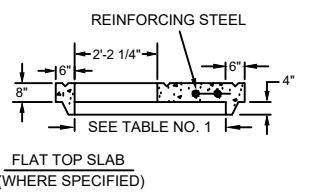
CONCRETE AND STEEL REINFORCEMENT SHALL CONFORM TO DESIGNATION C-478 REQUIREMENTS OF ASTM SPECIFICATIONS.

JOINTS SHALL BE WATERTIGHT AND SHALL BE MADE USING BUTYL RUBBER GASKETS. ALL JOINTS SHALL CONFORM TO ASTM-C443 VARIATIONS IN DIAMETER. DEFECTIVE OR DAMAGED ENDS, OR OTHER CONDITIONS WHICH, IN THE OPINION OF THE PROJECT ENGINEER, PREVENT MAKING A SATISFACTORY JOINT SHALL BE CONSIDERED CAUSE FOR REJECTION.

AREA OF CIRCUMFERENTIAL STEEL = 0.12 SQ INCH PER LINEAL FOOT.

4" MIN. 3/4" DENSE GRADED BASE UNDER CONCRETE BASE.

PRECAST BASE RISER SECTION WITH A SEPARATE PRECAST BASE SLAB SHALL NOT BE CONSIDERED GENERALLY ACCEPTABLE UNDER THIS SPECIFICATION.



THE FLOW CHANNEL THROUGH MANHOLES SHALL BE MADE TO CONFORM TO THE SHAPE AND SLOPE OF THE SEWERS AND SHALL EXTEND VERTICALLY FROM THE SPRINGLINE TO THE CROWN OF THE DISCHARGE PIPE. THE THROUGH MANHOLE FLOW CHANNEL SHALL BE THE SAME DIAMETER AS THE LARGER OF THE ADJOINING SEWERS.

BENCH SLOPE { STORM MANHOLE 1 INCH PER FOOT  
SANITARY MANHOLE 2 INCH PER FOOT

SPACE BETWEEN PIPE AND PRECAST MANHOLE WALL TO BE FILLED WITH BRICK MORTARED IN PLACE EXCEPT THAT AN APPROVED FLEXIBLE WATERTIGHT PIPE TO MANHOLE SEAL IS REQUIRED FOR ALL SANITARY SEWER CONNECTIONS. THE ANNULAR SPACE BETWEEN THE PIPE AND MANHOLE WALL SHALL BE FILLED WITH FLEXIBLE BUTYL RUBBER GASKET MATERIAL.

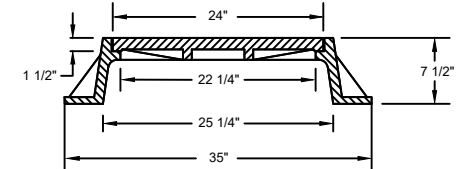
CLASS "D" CONCRETE, 12" MIN. BELOW BOTTOM OF PIPE

TABLE NO. 1

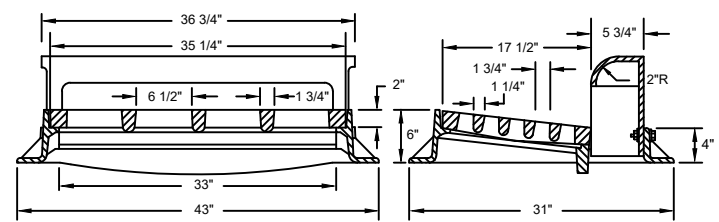
PIPE DIA	MANHOLE DIA	WALL THICKNESS
8" THRU 30"	48"	6"
36"	60"	6"
42"	72"	7"

### PRECAST MANHOLE

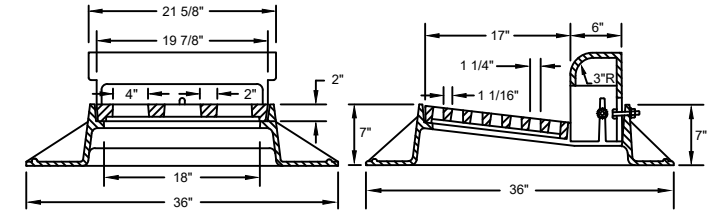
### MANHOLE CASTING DIMENSIONS



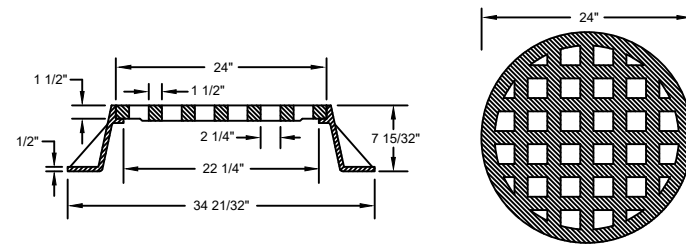
### TYPICAL CURB INLET CASTING DIMENSIONS FOR RECTANGULAR STRUCTURES



### TYPICAL CURB INLET CASTING DIMENSIONS FOR CIRCULAR STRUCTURES



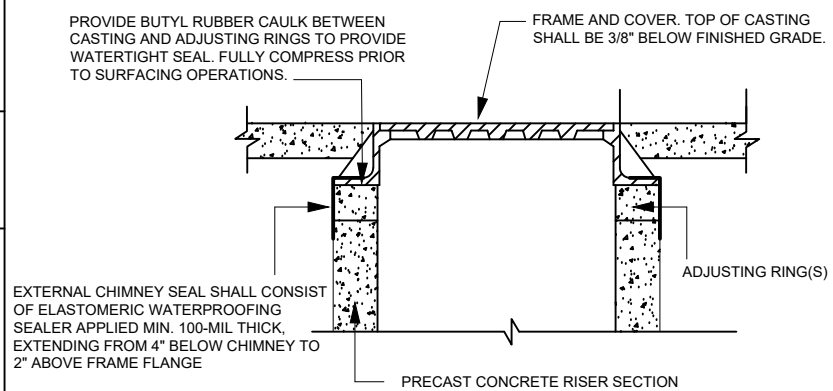
### CASTING DIMENSIONS FOR GRATED MANHOLE COVERS AND CIRCULAR INLETS IN NON-CURB INSTALLATIONS



ALL MANHOLE CASTINGS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-48, CLASS NO. 30-B AND SHALL BE FREE FROM CRACKS, HOLES, SWELLS, AND COLD SHUTS.

NON-VENTED COVERS SHALL BE "SELF-SEALING", "T-SEAL" OR "GASKET SEALED" COVERS. COVERS SHALL HAVE "SANITARY" OR "STORM" LABELS AS APPLICABLE, OR OTHER LABELS APPROVED AS EQUAL.

### EXTERNAL CHIMNEY SEAL



EXTERNAL CHIMNEY SEAL SHALL CONSIST OF ELASTOMERIC WATERPROOFING SEALER APPLIED MIN. 100-MIL THICK, EXTENDING FROM 4" BELOW CHIMNEY TO 2" ABOVE FRAME FLANGE