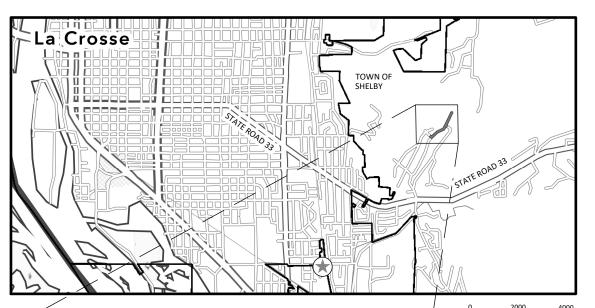
TOWN OF SHELBY

CONSTRUCTION PLANS FOR

WEDGEWOOD VALLEY STORMWATER IMPROVEMENTS PHASE 1

GRADING DITCHES, STORM SEWER UPGRADES, ASPHALT PAVING, CONCRETE DRIVEWAYS, CONCRETE STRUCTURE, STEEL PILING, RIPRAP, EROSION CONTROL & TURF ESTABLISHMENT

OCTOBER, 2024



NUMBER	SHEET TITLE
GENERAL	
G0.01 - G0.02	TITLE SHEET, LEGEND, GENERAL NOTES
G1.01	STATEMENT OF ESTIMATED QUANTITIES
G2.01	LOCATION, PHASING & TRAFFIC CONTROL PLAN
CIVIL	
C0.01 - C0.02	EXISTING CONDITIONS, REMOVALS PLAN
C1.01 - C1.08	TABLES, DETAILS, TYPICAL SECTIONS
C2.01 - C2.06	EROSION CONTROL PLAN, SWPPP
C5.01 - C5.04	STORM SEWER PLAN & PROFILE
C6.01 - C6.02	STREET PLAN & PROFILE
C8.01 - C8.06	CROSS SECTIONS
	THIS PLAN SET CONTAINS 32 SHEETS.

TOWN OF SHELBY

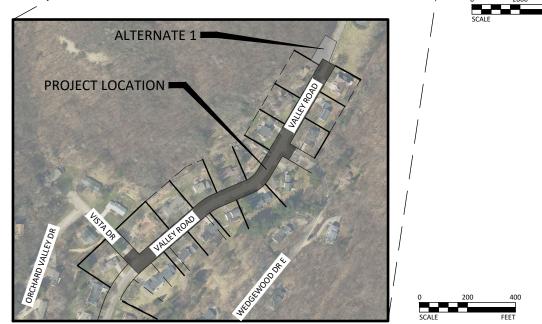


MAP LEGEND

PROJECT LIMITS PUBLIC WORKS

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL, 1-800-252-1166 OR



♦ BM=835.42 TOP NUT HYDRANT STA 37+38.23 26.91' RT

PROJECT DATUM: HORIZONTAL: NSRS 2011 LA CROSSE COUNTY

VERTICAL: NSRS11 IN FEET



2900 43RD STREET NW, SUITE 100 ROCHESTER, MINNESOTA 55901 Phone: (507) 208-4332

TOWN OF SHELBY, WISCONSIN JTP WEDGEWOOD VALLEY STORMWATER IMPROVEMENTS G0.01 XXX TITLE SHEET

EXISTING TOPOGRA	PHIC SYMBOLS			SURVEY S	SYMBOLS		
ACCESS GRATE		©	REGULATION STATION GAS	+	BENCHMARK LOCATION	•	CAST IRON MONUMENT
AIR CONDITION UN	т	<u>k</u>	SATELLITE DISH	♦	CONTROL POINT		STONE MONUMENT
ANTENNA		П	SIGN NON TRAFFIC	•	MONUMENT FOUND		
	NNECTION		SIGN TRAFFIC	FYISTING	TOPOGRAPHIC LINES		
BARRICADE PERMA	IENT		SIGNAL CONTROL CABINET	EXISTING	TOPOGRAPHIC LINES		
⊕ BASKETBALL POST		*	SOIL BORING	~~~~~~~~~			RETAINING WALL
≌ BENCH			SIREN	x	-xxxx -	x	FENCE
B- BIRD FEEDER		ß	TELEPHONE BOOTH				FENCE-DECORATIVE GUARD RAIL
B BOLLARD			TILE INLET	. 'UN'U	H. H	J. W. J.	TREE LINE
BUSH		©TILE	TILE OUTLET	·			BUSH LINE
CATCH BASIN RECTA	NGULAR CASTING	Ø	TILE RISER	SURVEY L	LINES		
CATCH BASIN CIRCL	LAR CASTING		TRANSFORMER-ELECTRIC				
CURB STOP		*	TREE-CONIFEROUS		0)———	CONTROLLED ACCESS BOUNDARY
CLEAN OUT		*	TREE-DEAD				CENTERLINE
CLVT CULVERT END		6	TREE-DECIDUOUS				EXISTING EASEMENT LINE
DRINKING FOUNTAI	N	A	TREE STUMP				PROPOSED EASEMENT LINE
DOWN SPOUT		0-	TRAFFIC ARM BARRIER				EXISTING LOT LINE PROPOSED LOT LINE
FILL PIPE		(D)	TRAFFIC SIGNAL				EXISTING RIGHT-OF-WAY
FIRE HYDRANT		O	TRASH CAN				PROPOSED RIGHT-OF-WAY
∼ FLAG POLE		TRĀSH	UTILITY MARKER		-		SETBACK LINE SECTION LINE
> FLARED END / APRO	N	×	VALVE				QUARTER LINE
FUEL PUMP		⊗	VALVE POST INDICATOR				SIXTEENTH LINE
D GRILL			VALVE VAULT				TEMPORARY EASEMENT
GUY WIRE ANCHOR		V	VAULT	EXISTING	UTILITY LINES		
HANDHOLE			VENT PIPE				FORCEMAIN
HANDICAP SPACE		⊗ws	WATER SPIGOT	>	->>>-	>	SANITARY SEWER
IRRIGATION SPRINK	ER HEAD	@	WELL	$\longrightarrow \longrightarrow \longrightarrow$	$\longrightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow$	$\longrightarrow \longrightarrow$	SANITARY SERVICE
IRRIGATION VALVE		Δ	WETLAND DELINEATED MARKER				STORM SEWER
LIFT STATION CONT		业	WETLAND				STORM SEWER DRAIN TILE WATERMAIN
	OLFANLE	ww	WET WELL		1-1-1-1-1-1-1-	ı—ı—ı—	WATER SERVICE
		(Y)	YARD HYDRANT	PROPOSE	ED UTILITY LINES		
LIGHT ON POLE LIGHT-GROUND		_					
MAILBOX	PF	ROPOS	ED TOPOGRAPHIC SYMBOLS		 -		FORCEMAIN
) MANHOLE-COMMU	NICATION	•	CLEANOUT	 >	->>>-		SANITARY SEWER SANITARY SERVICE
MANHOLE-ELECTRIC		•	MANHOLE	 >>		» 	STORM SEWER
			LIFT STATION	→> →> —	>>>>>>>>>>> 	→> →> 	STORM SEWER DRAIN TILE
MANHOLE-GAS MANHOLE-HEAT		0	STORM SEWER CIRCULAR CASTING	 1	-1111-	 1	WATERMAIN
) MANHOLE-SANITAR	V SEWIER	•	STORM SEWER RECTANGULAR CASTING	—ı—ı—	- - - - - - - - - - - - - - - - -		WATER SERVICE PIPE CASING
) MANHOLE-SANITAR) MANHOLE-STORM S		•	STORM SEWER FLARED END / APRON				TRENCHLESS PIPE (PLAN VIEW)
) MANHOLE-UTILITY			STORM SEWER OUTLET STRUCTURE				TRENCHLESS PIPE (PROFILE VIEW)
		•	STORM SEWER OVERFLOW STRUCTURE	GRADING	INFORMATION		
		•	CURB BOX				
	E		FIRE HYDRANT		952	EXISTING CO	ONTOUR MINOR
ORDER MICROPHOI PARKING METER	IE .	H	WATER VALVE				ONTOUR MAJOR
.,			WATER REDUCER		952		CONTOUR MINOR
PAVEMENT MARKIN		<u>د</u>	WATER REDUCER WATER BEND		950		CONTOUR MAJOR GRADING LIMITS / SLOPE LIMITS
PEDESTAL-COMMU	NICATION	Д	WATER BEND WATER TEE			PROJECT LIN	
PEDESTAL-ELECTRIC		<u>—</u>		× 95	980.87		SPOT ELEVATION
PEDESTRIAN PUSH E	UIION		WATER CROSS		1:4	RISE:RUN (S	LOPE)
PICNIC TABLE		Ξ	WATER SLEEVE	HATCH P.	ATTERNS		
POLE-UTILITY		10 10 10 10 10 10 10 10 10 10 10 10 10	WATER CAP / PLUG				
POLE-BRACE		8	RIP RAP		BITUMINOUS	GRAVEI	_
POST		→	DRAINAGE FLOW	· · · • · • · · · · · ·	1		
	OLE	Þ٢	TRAFFIC SIGNS	k	CONCRETE		

EXISTING PRIVATE UTILITY LINES

1-1-TING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY ACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL, 1-800-252-1166 OR

SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS ERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF STING SUBSURFACE UTILITY DATA"

F	— F —	F	F	UNDERGROUND FIBER OPTIC
—— Е —	— Е —	— Е —	— Е ———	UNDERGROUND ELECTRIC
——— G —	G	— G —	— G ———	UNDERGROUND GAS
c_	c	c	c	UNDERGROUND COMMUNICATION
—— OE —	OE	— OE —	—— OE ———	OVERHEAD ELECTRIC
—— ос —	— ос —	— ос —	— ос ——	OVERHEAD COMMUNICATION
ou	ou	ou	ou	OVERHEAD LITILITY

LITIES IDENTIFIED WITH A QUALITY LEVEL :

E TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL
MPLE: G-A G-A UNDERGROUND GAS, QUALITY LEVEL A LITY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN CI/ASCE 38-22.

LITY QUALITY LEVELS:

ALITY LEVEL D: PROVIDES THE MOST BASIC LEVEL OF INFORMATION. IT INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS. ORDS MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICES MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASES, NSTRUCTION PLANS, ETC.

ALITY LEVEL C: INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND TERS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO ATE COMPOSITE DRAWINGS. INCLUDES QUALITY LEVEL D ACTIVITIES.

ALITY LEVEL B: INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND LECTING THE INFORMATION THROUGH A SURVEY METHOD. INCLUDES QUALITY LEVEL C AND D TASKS.

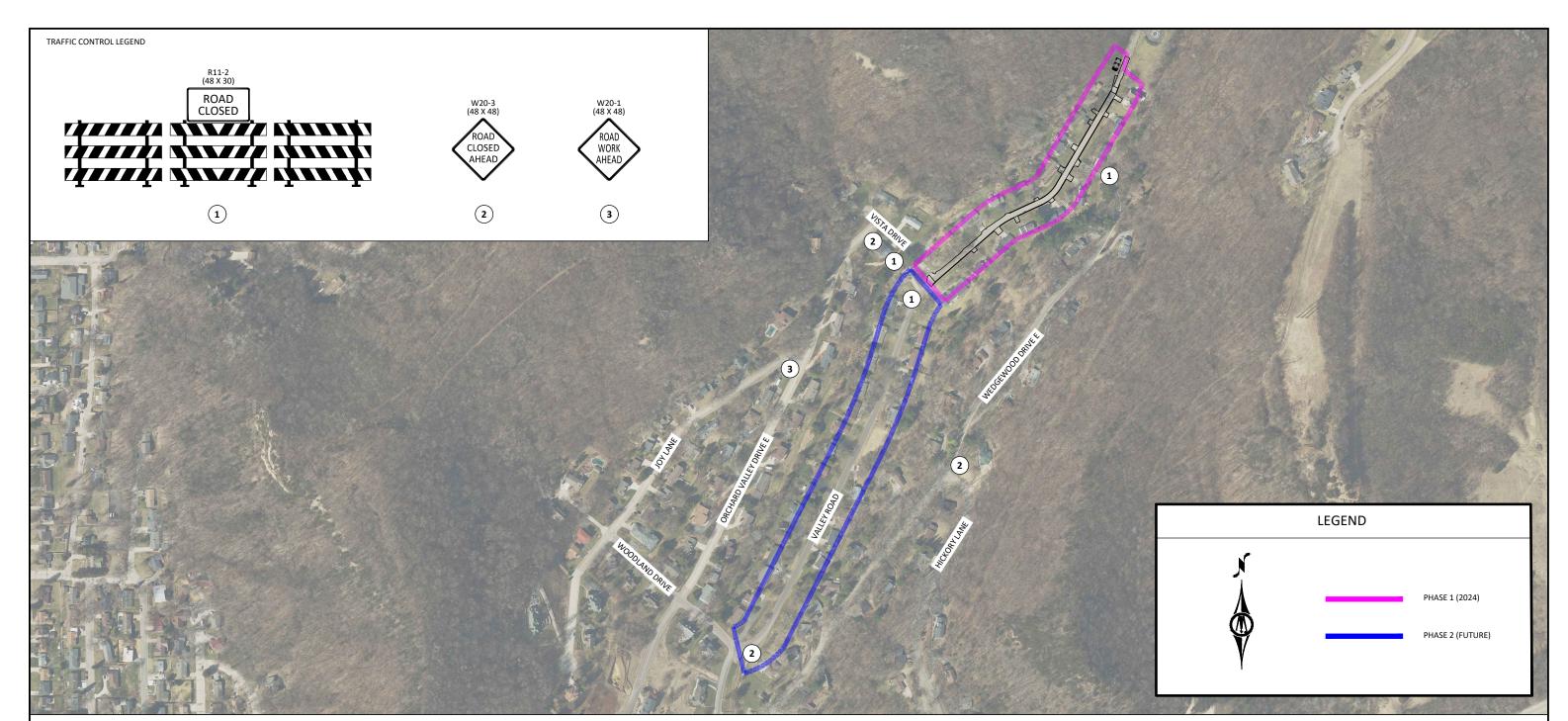
ALITY LEVEL A: PROVIDES THE HIGHEST LEVEL OF ACCURACY. IT INVOLVES LOCATING OR POTHOLING UTILITIES AS WELL AS ACTIVITIES IN ALITY LEVELS B, C, AND D. THE LOCATED FACILITY INFORMATION IS SURVEYED AND MAPPED AND THE DATA PROVIDES PRECISE PLAN AND

BREVIATIONS

Α	ALGEBRAIC DIFFERENCE	GRAV	GRAVEL	RSC	RIGID STEEL CONDUIT	
ADJ	ADJUST	GU	GUTTER	RT	RIGHT	
ALT	ALTERNATE	GV	GATE VALVE	SAN	SANITARY SEWER	
В-В	BACK TO BACK	HDPE	HIGH DENSITY POLYETHYLENE	SCH	SCHEDULE	
BIT	BITUMINOUS	НН	HANDHOLE	SERV	SERVICE	
BLDG	BUILDING	HP	HIGH POINT	SHLD	SHOULDER	
BMP	BEST MANAGEMENT PRACTICE	HWL	HIGH WATER LEVEL	STA	STATION	
BR	BEGIN RADIUS	HYD	HYDRANT	STD	STANDARD	
BV	BUTTERFLY VALVE	1	INVERT	STM	STORM SEWER	
СВ	CATCH BASIN	K	CURVE COEFFICIENT	TC	TOP OF CURB	
C&G	CURB AND GUTTER	L	LENGTH	TE	TEMPORARY EASEMEN	IT
CIP	CAST IRON PIPE	LO	LOWEST OPENING	TEMP	TEMPORARY	
CIPP	CURED-IN-PLACE PIPE	LP	LOW POINT	TNH	TOP NUT HYDRANT	
CL	CENTER LINE	LT	LEFT	TP	TOP OF PIPE	
CL.	CLASS	MAX	MAXIMUM	TYP	TYPICAL	
CLVT	CULVERT	МН	MANHOLE	VCP	VITRIFIED CLAY PIPE	
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	VERT	VERTICAL	
C.O.	CHANGE ORDER	MR	MID RADIUS	VPC	VERTICAL POINT OF CU	RVE
COMM	COMMUNICATION	NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INT	ERSECTIO
CON	CONCRETE	NMC	NON-METALLIC CONDUIT	VPT	VERTICAL POINT OF TAI	NGENT
CSP	CORRUGATED STEEL PIPE	NTS	NOT TO SCALE	WM	WATERMAIN	
DIA	DIAMETER	NWL	NORMAL WATER LEVEL			
DIP	DUCTILE IRON PIPE	OHW	ORDINARY HIGH WATER LEVEL			
DWY	DRIVEWAY	PC	POINT OF CURVE	AC	ACRES	
E	EXTERNAL CURVE DISTANCE	PCC	POINT OF COMPOUND CURVE	CF	CUBIC FEET	
ELEC	ELECTRIC	PE	PERMANENT EASEMENT	CV	COMPACTED VOLUME	
ELEV	ELEVATION	PED	PEDESTRIAN, PEDESTAL	CY	CUBIC YARD	
EOF	EMERGENCY OVERFLOW	PERF	PERFORATED PIPE	EA	EACH	
ER	END RADIUS	PERM	PERMANENT	EV	EXCAVATED VOLUME	
ESMT	EASEMENT	PI	POINT OF INTERSECTION	LB	POUND	
EX	EXISTING	PL	PROPERTY LINE	LF	LINEAR FEET	
FES	FLARED END SECTION	PRC	POINT OF REVERSE CURVE	LS	LUMP SUM	
F-F	FACE TO FACE	PT	POINT OF TANGENT	LV	LOOSE VOLUME	
FF	FINISHED FLOOR	PVC	POLYVINYL CHLORIDE PIPE	SF	SQUARE FEET	
F&I	FURNISH AND INSTALL	PVMT	PAVEMENT	SV	STOCKPILE VOLUME	
FM	FORCEMAIN	R	RADIUS	SY	SQUARE YARD	
FO	FIBER OPTIC	R/W	RIGHT-OF-WAY			
F.O.	FIELD ORDER	RCP	REINFORCED CONCRETE PIPE			
GRAN	GRANULAR	RET	RETAINING			
IGNED ITP	NO. ISSUED FOR DATE		TOWN OF SHELBY WIS	CONSIN		SHEET



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XXX					00.02
۸۸۸	\vdash			LECEND	
NT PROJ. NO.				LEGEND	



GENERAL CONSTRUCTION REQUIREMENTS

- A. All traffic control and erosion control shall be installed before commencing with work in each respective area.
- B. Corner lot properties: Where applicable, the Contractor is limited to construction of underground utilities on one-side of the corner lot, while the other leg of the street should provide reasonable access. No underground or significant construction will be allowed simultaneously on two legs of an intersection.
- C. Work affecting vehicular access to properties with singular access points within the work limits shall be staged to minimize the amount of time that access is closed. Under no circumstances shall work restrict access to residences over nights, weekends, or other periods of time while work is not actively progressing.
- D. The Contractor shall coordinate with the postal service, garbage/recycling service, and school bus service prior to construction to allow for reasonable continuation of their services throughout construction.
- E. The contractor shall coordinate with emergency services to develop a contingency plan for accessing the site during all hours of the day, throughout construction.
- F. The contractor shall track and log all water usage during the project and submit this information to the City. Contractor shall coordinate with the Public Works Department prior to using any hydrants.
- G. The Contractor shall temporarily relocate mailboxes, haul recycling and garbage for residents to a designated pick up location and back at the end of the day, etc., as required by the subject service provider. All equipment materials and labor required to coordinate with service providers and maintain services shall be incidental to the Contract.
- H. The work shall be scheduled to minimize the elapsed time between pavement removal and the new street construction in order to cause the least disruption and inconvenience to adjacent properties. Each construction activity within each segment shall be pursued diligently and continuously from start to finish. After the aggregate base is in place, temporary access shall be provided to the adjacent properties when no construction activity is taking place, including evenings and weekends (incidental).
- Modifications to the limitations described above may be requested by the Contractor. Such variations will be considered by the Engineer and the Owner and will be evaluated based on the impacts to properties within the project area. If approved, written authorization will be provided to the Contractor.

- The Contractor shall protect existing street pavement to the extent possible. Rubber tracks and direct loading of removed items are preferred.
- The Contractor shall provide street and driveway access through permanent or temporary means whenever active work is not occurring. Access shall consist of a smooth, all weather surface that does not restrict flow of traffic during or after normal rainfall events. All work and materials necessary to be included in Traffic Control unit price.
- Protect existing sanitary sewer mains, services, structures, and castings. Protect existing water mains, services, curb stops, hydrants, and valves. Protect existing storm sewer not designated for removal.
- 7. The Contractor shall deliver in-person written notices to each affected resident prior to closing their driveway for work. Notice shall be at least 72 hours in advance of the closing. Driveways shall be closed for no more than 24 hours.
- N. Water services and curb stops shall be protected. The depths of the water services are unknown, and may need to be shifted during construction to avoid the proposed storm sewer main. In the event it is discovered a water service must be replaced in order to install the new storm sewer, the Contractor shall inform Town staff immediately and deliver in-person written notices to each affected resident prior to shutting off their water. Resident notices shall be at least 24 hours prior to water shutoff or at an earlier time if convenient to resident.

PHASING NOTES

PHASE 1 (NORTH IMPROVEMENTS): Drainage improvements between Vista Drive and the north terminus of Valley Road. All work to be substantially complete by XXXX as defined in the project manual. Additional details regarding phasing requirements are included in Section 013513 of the Project Manual.

 $\label{phase 2 (SOUTH IMPROVEMENTS): Drainage improvements between Woodland Drive and Vista Drive. Improvements in this area have not been scheduled. \\$

HORZ. SCALE FEET

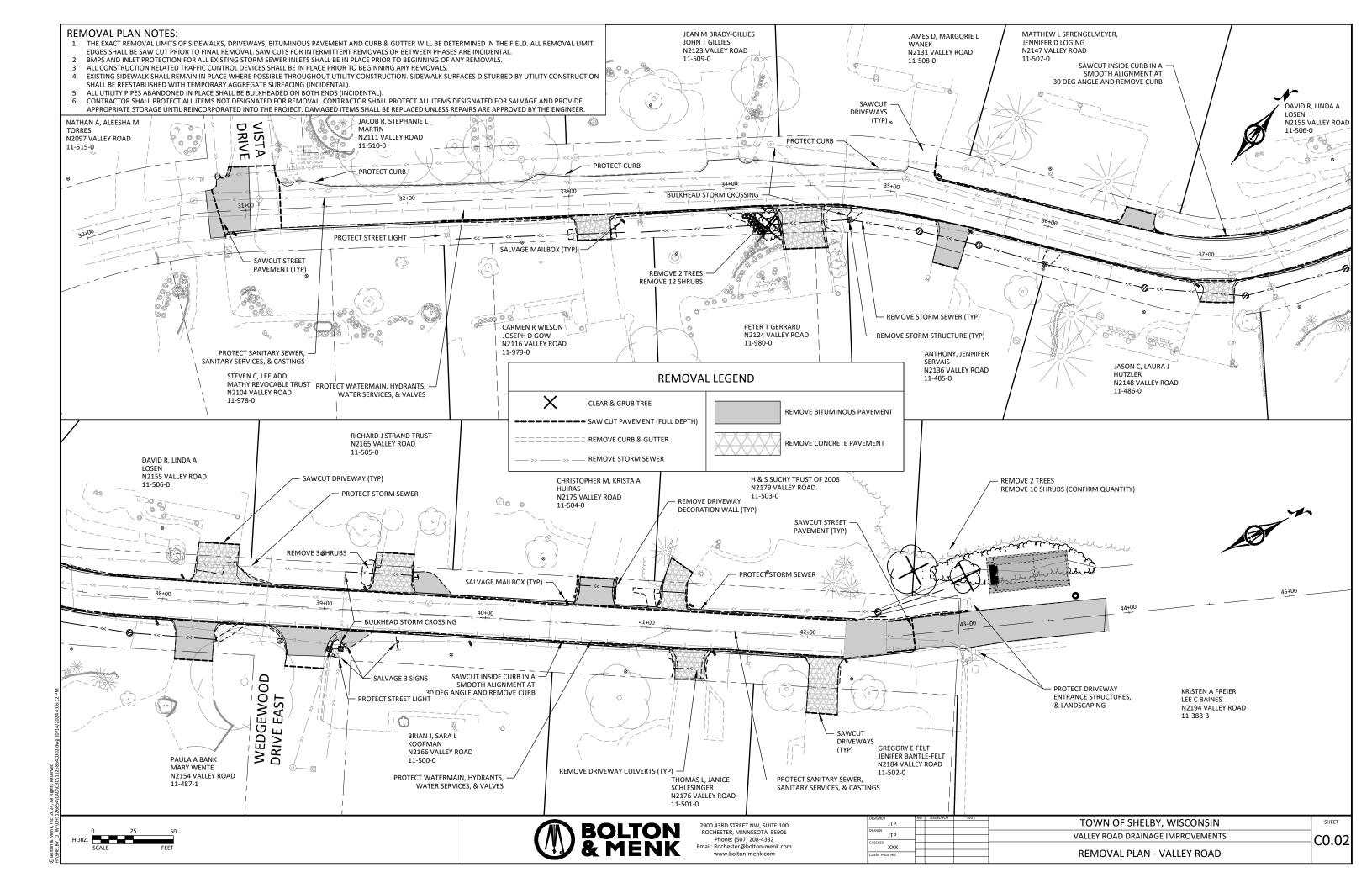


2900 43RD STREET NW, SUITE 100 ROCHESTER, MINNESOTA 55901 Phone: (507) 208-4332 Email: Rochester@bolton-menk.com www.bolton-menk.com

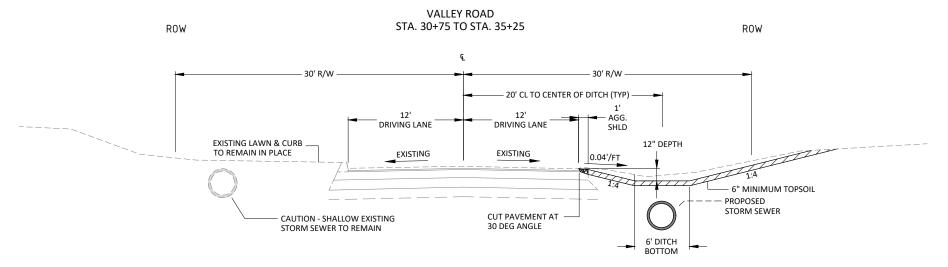
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JTP				VALLEY ROAD DRAINAGE IMPROVEMENTS
KED	\vdash			
XXX				
	-			LOCATION, PHASING & TRAFFIC CONTROL PLAN
VT PROJ. NO.	\Box			LOCATION, FINASING & TRAFFIC CONTROL PLAN

G2.01

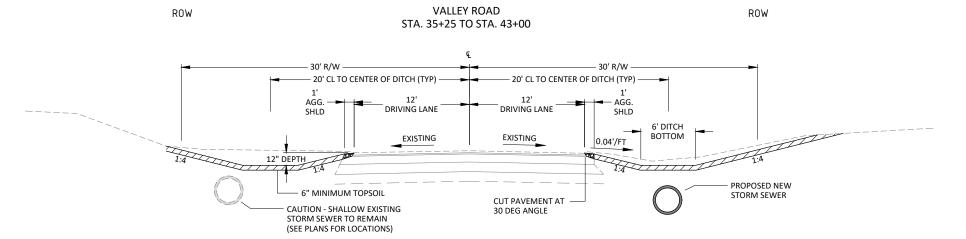




TYPICAL SECTION



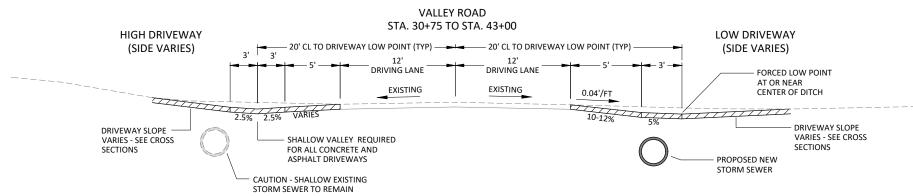
TYPICAL SECTION



GENERAL NOTES:

- 1. PAVEMENT SLOPES AT INTERSECTIONS MAY VARY FROM THOSE SHOWN ON THE
 TYPICAL SECTION
 2. GRADE ALL TOPSOIL MATERIAL TO 1" DEPTH
 BELOW PAVEMENT & GRAVEL SURFACES
- PRIOR TO PLACING SOD

TYPICAL DRIVEWAY



ASPHALT PATCHING SPECIAL NOTES:

- (1) PAID AS ASPHALT PATCHING SPECIAL(2) EXCAVATION AND REMOVAL OF
- EXISTING PAVEMENT FOR PATCH IS PAID AS REMOVING ASPHALTIC

-2.0" HMA PAVEMENT 4 LT 58-28 S (1)

- ASPHALTIC TACK COAT (1)

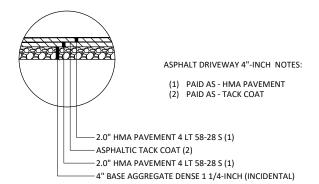
-2.0" HMA PAVEMENT 4 LT 58-28 S (1)

10" BASE AGGREGATE DENSE 1 1/4-INCH (1)

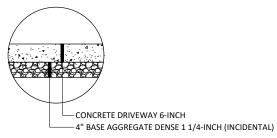
-12" PREPARING THE FOUNDATION (INCIDENTAL)

ASPHALT PATCHING SPECIAL (UTILITY CROSSINGS)

NOT TO SCALE



ASPHALT DRIVEWAY 4-INCH NOT TO SCALE



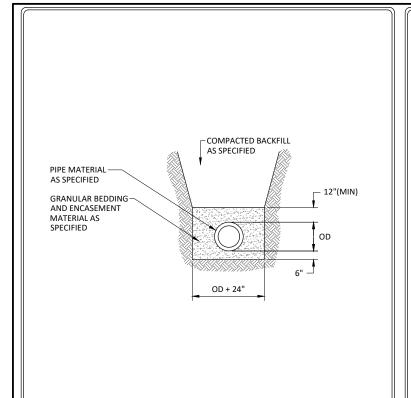
CONCRETE DRIVEWAY 6-INCH (INCLUDES VALLEY THROUGH DRIVEWAY) NOT TO SCALE

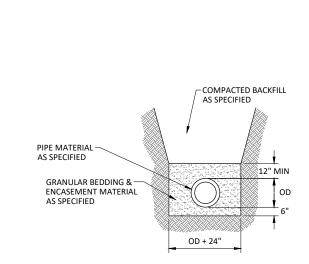
-10" BASE AGGREGATE DENSE 3/4-INCH -12" PREPARING THE FOUNDATION (INCIDENTAL)

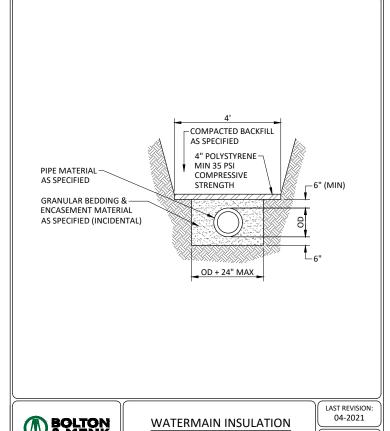
> AGGREGATE SHOULDERING NOT TO SCALE



DESIGNED	NO.	ISSUED FOR	DATE	TOWN OF CHELDY MUSCONICIN	CUEET
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JTP	П			VALLEY ROAD DRAINAGE IMPROVEMENTS	C1 01
CHECKED					CI.UI
CLIENT PROJ. NO.	П			TYPICAL SECTIONS	







NON-RIGID SANITARY SEWER BOLTON & MENK

TRENCH NOT TO SCALE 04-2021

BOLTON & MENK PLATE NO. 5-200

PVC WATERMAIN TRENCH NOT TO SCALE

04-2021

PLATE NO. 6-200

BOLTON & MENK

NOT TO SCALE

PROPOSED FINISHED-

STREET ELEVATION

PLATE NO. 6-202

AVOID DITCH BOTTOM, CHECK WITH ENGINEER BEFORE PLACEMENT

SEWER SERVICE REQUIREMENTS
-GRADES-MINIMUM - 1.0% (1/8" PER FT) OPTIMUM - 2.0% (1/4" PER FT) MAXIMUM - 12.5%

BOLTON & MENK

- WYES, BENDS AND PIPE SIZES AS REQUIRED BY PLANS AND SPECS
 WHERE NO EXISTING SEWER IS INPLACE, INSTALL PVC CAP AND MARK LOCATION
 WITH 4"X4"X6" TIMBER & 3/8" X 4" STEEL ROD BURY 6" BELOW FINISHED GRADE

SANITARY SEWER SERVICE

LAST REVISION: 04-2021 PLATE NO. 5-107

AND SERVICE RISER, RECONSTRUCTION NOT TO SCALE

BOLTON & MENK

2900 43RD STREET NW, SUITE 100 ROCHESTER, MINNESOTA 55901 Phone: (507) 208-4332 Email: Rochester@bolton-menk.com www.bolton-menk.com

DESIGNED	NO.	ISSUED FOR	DATE	TOWN OF SUFERY MUSCONSIN	OLUE ET
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DRAWN				VALLEY DOAD DRAINAGE INADDOVENATATE	
JTP	-			VALLEY ROAD DRAINAGE IMPROVEMENTS	C1 051
CHECKED				DETAILS	CT.05
CLIENT PROJ. NO.	-			DETAILS	
CDENT THOS. NO.				SANITARY SEWER & WATERMAIN	

EXISTING SANITARY SEWER SERVICE FERNCO-AS REQUIRED -SANITARY SEWER SERVICE COMPACTED-GRANULAR BEDDING & ENCASEMENT MATERIAL RISER AS NEEDED, ON UNDISTURBED TRENCH EXISTING SANITARY --FERNCO SEWER SERVICE WALL 45° BEND-45° BEND -WYE OR WYE OR SADDLE SADDLE **TOP VIEW** -GRAVITY SANITARY SEWER

CURB STOP & BOX CORPORATION STOP AND
TAPPING SADDLE AS REQUIRED (PLACE ELBOW TO MAINTAIN COVER AS NEEDED) -EXPANSION WATERMAIN-LOOP 22° MAX -CONNECT TO EXISTING SERVICE SERVICE - MATERIAL TO BE SPECIFIED -8" CONCRETE BLOCK (VARIABLE LENGTH)

NOTE: WHERE NO EXISTING WATER SERVICE IS INPLACE, INSTALL 0.5' FLARED & CRIMPED COPPER SERVICE LINE AND STEEL "T" FENCE POST AT CURB STOP

WATER SERVICE INSTALLATION - RECONSTRUCTION

NOT TO SCALE

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

- (1) MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.
- ② FOR PRECAST CATCH BASINS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO
- (3) PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6".
- (5) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS

CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFROMING TO ASTM C443. OUTSIDE PIPE WALL (TYP.)

GENERAL NOTES

EQUIVALENT CAPACITY AND STRENGTH.

SECTIONAL DIMENSION OF 1 INCH

AREA OF THE BASE.

DETAIL "D"

MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE

LINEESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER. THE CONTRACTOR SHALL NOT ORDER AND DELIVER

PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE

SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER

5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USE ONLY ON

2X3-H". ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE. AND THE FOLLOWING LETTER

DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT

STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

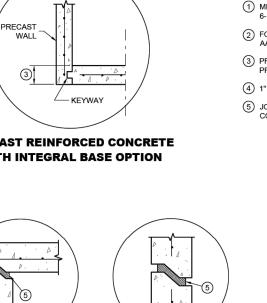
PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

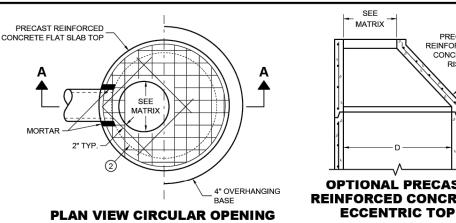
AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

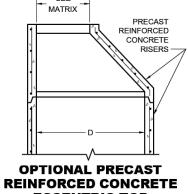
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN

- PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".
- (4) 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.







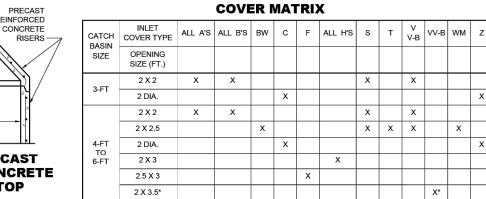
SEE

MATRIX

OPTIONAL PRECAST

REINFORCED CONCRETE

CONCENTRIC TOP

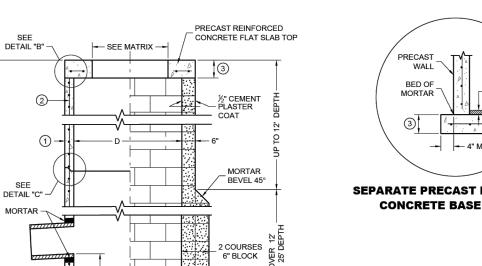


* REQUIRES 5-FT DIAMETER OR LARGER STRUCTURE

PIPE MATRIX

=								
CATCH BASIN		PIPE DIAMETER O PIPES						
SIZE	180° SEPARATION (IN)	90° SEPARATION (IN)						
3-FT	15	12						
4-FT	24	18						
5-FT	36	24						
6-FT	42	30						

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

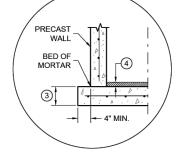


- 4" MIN

CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY

- A PROFESSIONAL FOR STEEL REINFORCING DESIGN FOR CAST IN PLACE STRUCTURES.

4" OVERHANGING

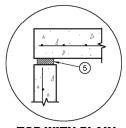


CONCRETE

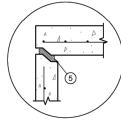
SEPARATE PRECAST REINFORCED **CONCRETE BASE OPTION**

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

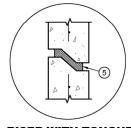
DETAIL "A"



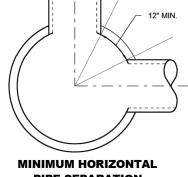
TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT



PIPE SEPARATION

CATCH BASINS, 3-FT. 4-FT., 5 FT., AND **6-FT. DIAMETER** STATE OF WISCONSIN

90

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DEPARTMENT OF TRANSPORTATION

APPROVED December 2023

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMEN UNIT SUPERVISOR

SECTION A - A

2' MIN.

-4)

PRECAST REINFORCED **CONCRETE WITH MONOLITHIC BASE**

SFF

DETAIL "A'

PRECAST REINFORCED

MATRIX

PLAN VIEW RECTANGULAR OPENING

CONCRETE FLAT SLAB TOP

MORTAR

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED **CONCRETE BASE 2**

DETAIL "B"

DETAIL "C"

2900 43RD STREET NW, SUITE 100 ROCHESTER, MINNESOTA 55901 Phone: (507) 208-4332 www.bolton-menk.com

TOWN OF SHELBY, WISCONSIN JTP JTP VALLEY ROAD DRAINAGE IMPROVEMENTS C1.06XXX DETAILS STORM SEWER

6

AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH. WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5

FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL

AT THE POINT OF EMBEDMENT. MINIMUM LENGTH OF 10 INCHES. MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROLIS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL IMENSION

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON

DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT

STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER

MUST BE A MINIMUM OF 1000 INCH AND MEET THE REQUIREMENTS OF ASTM A615.

FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER

FOR ADDITIONAL CONFIGURATIONS. MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

- ① FOR PRECAST MANHOLES AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO
- 2 SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES
- 3 SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.
- 4 JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.
- (5) SEE MANHOLE COVER OPENING MATRIX.

GENERAL NOTES

OF THE BASE.

MINIMUM

PRECAST

FLAT SLAB TOP

AND BASE

THICKNESS

10

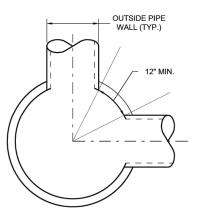
MINIMUM

WALL

THICKNESS

(IN)

10



MINIMUM HORIZONTAL PIPE SEPARATION DETAIL "D"

MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT **AND 10-FT DIAMETER**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

December 2023

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR ö

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MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE OPENING SIZE (FT.) 5	С	ALL J'S	к	L	М
2 DIA.	Х	х		х	
3 DIA.			Х		Х

PIPE MATRIX

24

36

36/42

54

60

MAXIMUM INSIDE PIPE DIAMETER

FOR TWO PIPES

SEPARATION (IN) SEPARATION (IN)

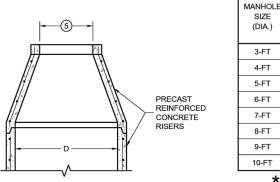
36

42

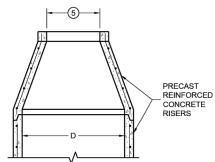
48

72

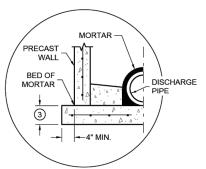
OPTIONAL PRECAST REINFORCED CONCRETE **ECCENTRIC TOP**



★A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES. SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.



OPTIONAL PRECAST REINFORCED CONCRETE **CONCENTRIC TOP**

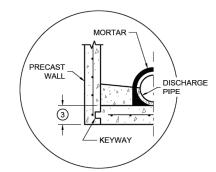


PRECAST

RISERS

CONCRETE

SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION



PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

DETAIL "A"



END JOINT



AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "C"

CONCRETE BASE ①

CONCRETE BLOCK WITH

CAST IN PLACE OR

PRECAST REINFORCED

MORTAR

4" OVERHANGING

PRECAST

REINFORCED CONCRETE

FLAT SLAB TOP

(3)

½" CEMENT PLASTER COAT

MORTAR

BEVEL 459

2 COURSES

6" BLOCK

SPLIT PIPE OR FORM CONCRETE TO FIT CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY - A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST IN PLACE STRUCTURES.

PLAN VIEW

CIRCULAR OPENING

PRECAST

REINFORCED

FLAT SLAB TOP

DETAIL "B"

SEE DETAIL "C

CONCRETE

(MIN. SLOPE

DETAIL "A"

1 IN./FT.)

2

(1)

PRECAST REINFORCED

CONCRETE WITH

MONOLITHIC BASE

MORTAR

SECTION A - A

CONCRETE

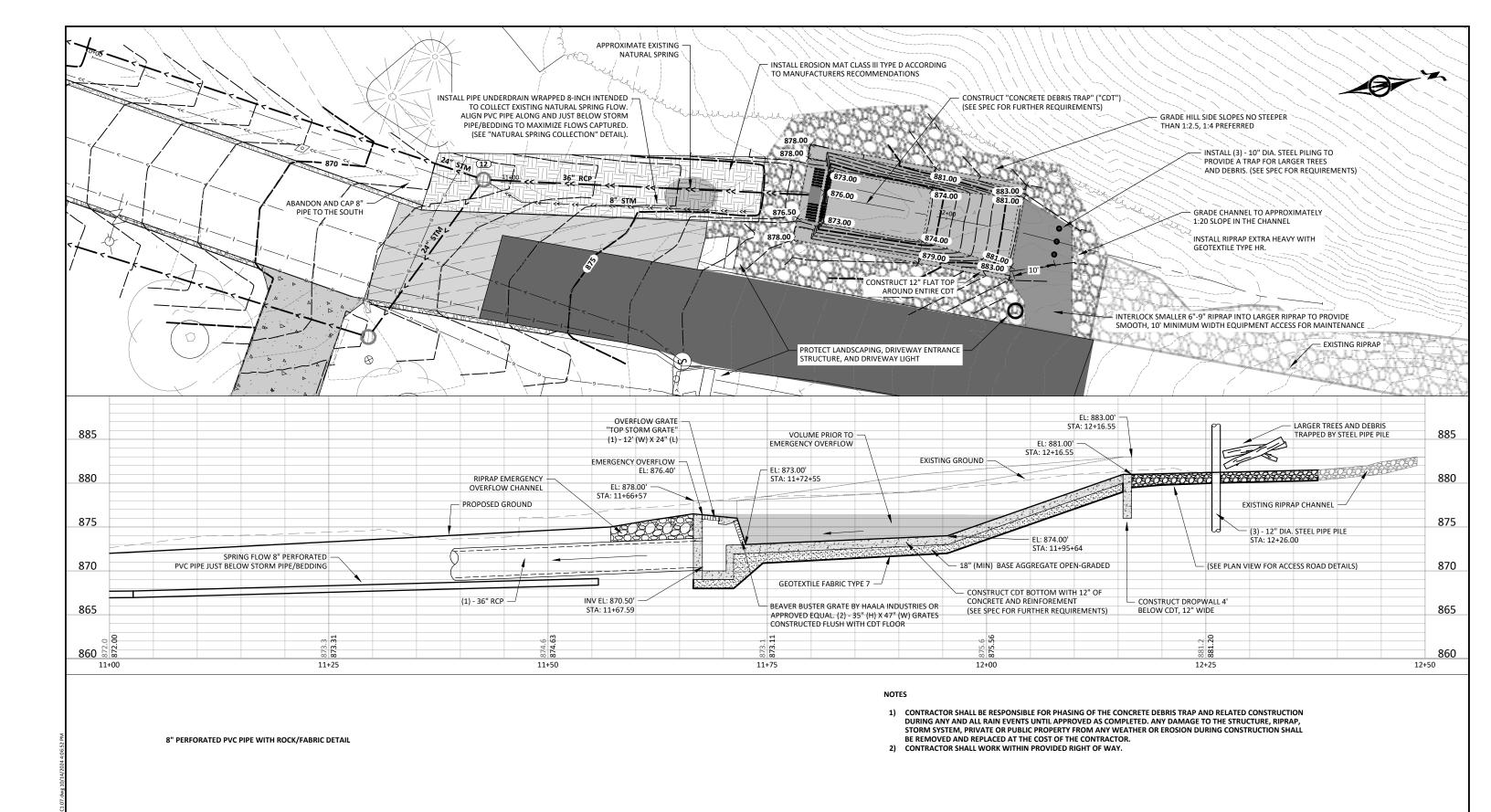
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

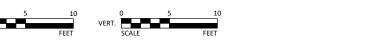
DETAIL "B"

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TOWN OF SHELBY, WISCONSIN JTP JTP VALLEY ROAD DRAINAGE IMPROVEMENTS C1.07 XXX DETAILS STORM SEWER

8B09-0







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				VALLET ROAD DIVAMAGE IN ROVEMENTS	(*1 NXI
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				CONCRETE DEBRIS TRAP	

EROSION CONTROL AND STORMWATER MANAGEMENT PLAN

VALLEY ROAD DRAINAGE IMPROVEMENTS

TOWN OF SHELBY
LA CROSSE COUNTY, WISCONSIN

PROJECT LOCATION



ESPONSIBLE PARTIES:

The Contractor and Owner must apply for coverage under the General Permit to Discharge under the Wisconsin Pollution Discharge Elimination System (WPDES) as required by the National Pollution Discharge Elimination System (NPDES) Phase II program. Coverage under the permit will begin, unless notification by the WDNR to the contrary, 14 working days after an applicant's complete Notice of Intent (NOI) has been received by the WDNR. he maximum period of general permit coverage for any project is limited to 3 years per NOI

The landowner must conduct inspections of implemented erosion and sediment best management practices at least weekly and within 24 hours after a rainfall event of 0.5 inches or greater, and repair or replace erosion and sediment best management practices as necessary. BMP's must be repaired or replaced within 24 hours of inspection or notification of a problem.

	COMPANY	CONTACT PERSON	PHONE
LANDOWNER:	TOWN OF SHELBY	XXXX	XXXX
EROSION AND SEDIMENT CONTROL PLAN DESIGNER:	Bolton & Menk, Inc.	JORDAN PANKONIN	952-917-9754
CONTRACTOR:			
SUBCONTRACTOR:			
PARTY RESPONSIBLE FOR INSTALLING AND MAINTAINING BMP's			
PARTY RESPONSIBLE FOR LONG TERM O&M:	TOWN OF SHELBY	XXXX	XXXX

GENERAL STORMWATER DISCHARGE REQUIREMENTS

All requirements listed in NR 216.47, Wisconsin's Statute for Storm Water Runoff Discharge Permits, for the design of the permanent stormwater management system and discharge, have been included in the preparation of the Stormwater Management Plan. These include but are not limited to:

- 1. The expected amount, frequency, intensity, and duration of precipitation.
- 2. The nature of stormwater runoff and run-on at the site
- 3. Peak flow rates and stormwater volumes to minimize erosion at outlets and downstream channel and stream bank erosion.
- 4. The range of soil particle sizes expected to be present on the site.

DOCUMENT RETENTION

The following documentation will be retained for a period of not less than 3-years from the date of submittal of the NOT.

- 1. All reports required by subch. III of ch. NR 216, Wis. Adm. Code.
- 2. Copies of the Erosion Control and Storm Water Management Plans
- 3. Amendments
- Background information used in the preparation of all reports and plans required by this permit
- All required calculations for design of the temporary and permanent BMPs.

LEGEND

1/4-MILE BOUNDARY

PROJECT BOUNDARY

RECEIVING WATERS

PROJECT AREA

Type of Development: Residential/Utility

Total Area of Project (acres) =	1.5	ACRES
Total Estimated Disturbed Area (acres) =	1.5	ACRES
Impervious Area (% of total land disturbance) Before Construction =	56.3	%
Impervious Area (% of total land disturbance) After Construction =	56.5	%

Planned Construction Start Date: SPRING 2025
Estimated Construction Completion Date: FALL 2025

PERMANENT STORMWATER MANAGEMENT SYSTEM:

Type of storm water management used if more than 1 acre of new impervious surface is created:

	Wet Sedimentation Basin
	Infiltration/Filtration
	Regional Pond
X	Permanent Stormwater Management Not Required
	(Less than 1 acre of new impervious surface created)

PROJECT LOCATION:

COUNTY	TOWNSHIP	RANGE	SECTION	LATITUDE	LONGITUDE
LA CROSSE	T15N	R07W	03,10	43.7991°	-91.1943°

BMP SUMMARY	QUANTITY	UNIT
INLET PROTECTION	37	EACH
TEMPORARY DITCH CHECKS	730	LF
SOD	3070	SY
		•

DESCRIPTION OF CONSTRUCTION ACTIVITIES AND STORMWATER MANAGEMENT:

Construction activities include: Site grading, storm sewer improvements, temporary erosion and sediment control, and permanent stabilization.

Stormwater currently flows down into the coulee creating concentrated channels. A large channel flows into the road ditches on the north end of Valley Road and collects into the storm sewer systems on both sides of Valley Road. Heading south and lower in elevation, more water flows toward Valley Road from the east and west slopes and is collected into the storm system. Water leaves the project area in an existing storm system that travels south to the bottom of the coulee, into a stream and eventually out to the Mississippi River.

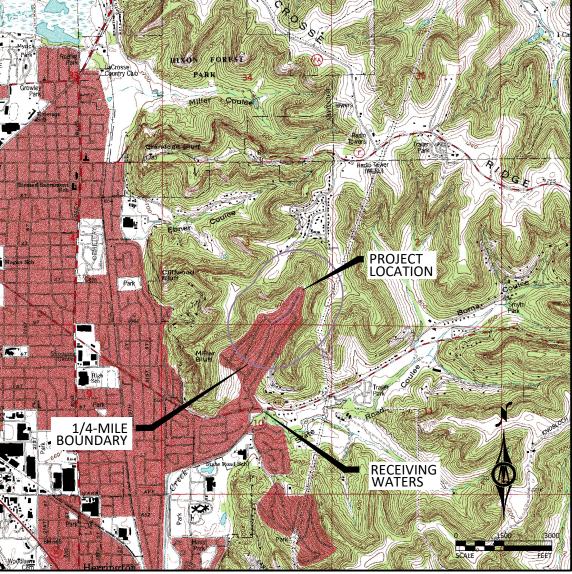
After construction is complete the same amount of stormwater will drain into and from the project area. Driveways will be lowered below the street elevation to allow ditches full of water to keep the water in the ditches and not direct water into the street. More storm sewer inlets will be added in the ditches to collect stormwater sooner and help prevent water from backing up on private property. A larger pipe will be replacing several smaller culverts on the east side and then will connect to the west side storm sewer system similar to the existing storm sewer network.

This project includes the following stormwater management devices: A large debris collection system will be constructed at the top of Valley Road to collect trees, boulders, and other debris that has been known to wash down the street during large storm events. This debris basin has been designed to allow city staff access to remove debris in preparation for the next storm. Temporary erosion control measures such as sediment control logs and erosion control blanket could be used during construction.

2900 43RD STREET NW, SUITE 100 ROCHESTER, MN 55901

Phone: (507) 208-4332

www.bolton-menk.com



RECEIVING WATERS:

Receiving waters are identified on the USGS 7.5 min quad map within 1/4 mile of the project boundary. Immediate receiving waters that are outstanding resource waters (ORW), exceptional resource waters (ERW) or impaired waters, the associated impairment, and WLA are listed as follows. All specific BMPs relative to construction activities listed in this permit for special and impaired waters have been incorporated into this plan. All specific BMPs listed in approved TMDLs and those BMPs listed for construction related waste load allocations have also been incorporated.

	TYPE (ditch, pond, wetland, lake, etc.)		USEPA Approved TMDL?
PAMMEL CREEK	RIVER	NO	NO

IMPLEMENTATION SCHEDULE AND PHASING:

- Submit Erosion and Sediment Control Plan Updates to Engineer. Submittal shall include any requested changes to the Erosion
 and Sediment Control Plan, including but not limited to: Trained Personnel, Locations for Stockpiles, Concrete Washout,
 Sanitation Facilities, Types and Locations of Erosion & Sediment Control. Failure to submit updates shall be considered
 acceptance of the Erosion and Sediment Control Plan as designed with no changes.
- Install perimeter sediment control, inlet protection, and construction entrance/exit
- 3) Grub trees and shrubs, excavate for utilities in green space and grade ditches.
- 4) Remove existing road surfaces when required at utility improvement locations.
- 5) Complete all approved utility improvement work within phased area.
 6) Install inlet protection after installation of proposed inlets.
- 7) Construct Concrete Debris Catch and install steel piles.
- 8) Install proposed permanent turf establishment.
- 9) Pave road surfaces that were removed for utility work.
 10) Add additional temporary BMPs as necessary during construction based on inspection reports.
- 11) Ensure final stabilization measures are complete.
- 12) Submit Notice of Termination (NOT) to WDNR after BMPs have been removed and all storm water discharges associated with the construction site activities that were required to have WPDES permit coverage under NR216 have ceased.

BOLTON & MENK
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T PROJ. NO.				DDG (507 IN 50D) 44 TION 44 D 4 CO 4 TION 44 D
XXXXXXXX				PROJECT INFORMATION AND LOCATION MAP

EROSION PREVENTION PRACTICES:

Phased construction will be used to extent practical or as indicated in the plans to minimize exposed soils.

Rapid stabilization shall be of type and quantity indicated in the project specifications. Additional rapid stabilization may be necessary to minimize erosion throughout the duration of the project. Type and quantity shall be determined by the engineer or inspector prior to installation. In extreme cases, the contractor shall use any available rapid stabilization to immediately mitigate erosion, then further remedy the situation with approval by owner or engineer.

SEDIMENT CONTROL PRACTICES:

Practices must be established on all down gradient perimeters and be located up gradient of any buffer zones.

Perimeter controls must be in place before up gradient land- disturbing activities begin and shall remain in place until final stabilization.

All sediment controls practices shall be re-installed if they have been adjusted or removed to accommodate short-term activities and replaced immediately after the short term activity has ceased. Short term activities shall be performed as quickly as possible. Sediment control practices shall be re-installed even before the next precipitation event if the activity is not complete.

All storm drains must be protected by appropriate BMPs during construction until all sources to the inlet have been stabilized. Inlet protection may be removed for specific safety concerns identified by the Permittee or jurisdictional authority. The removal shall be documented in the SWPPP and retained on site. Temporary stockpiles must have silt fence or other effective sediment controls and shall not be placed in surface waters or natural buffers.

Vehicle tracking BMPs shall be installed to minimize track out of sediment from the construction site. Method shall be approved by engineer prior to commencement of construction activities. Street sweeping shall be used if vehicle tracking BMPs are not adequate to prevent sediment from being tracked onto the street.

Soil compaction shall be minimized and topsoil shall be preserved, unless infeasible or if construction activities dictate soil compaction or topsoil stripping.

DEWATERING AND BASIN DRAINING

Turbid or sediment-laden waters related to dewatering or basin draining shall be discharged to a temporary or permanent sedimentation basin on the project site unless infeasible. The temporary or permanent basin may discharge to surface waters if the basin water has been visually checked to ensure adequate treatment has been obtained in the basin and that the nuisance conditions will not result from the discharge. Discharge points shall be adequately protected from erosion and proper velocity dissipation provided.

All water from dewatering or basin-draining activities must be discharged in a manner that does not cause nuisance conditions, erosion in the receiving channels or on down slope properties, or inundation in wetlands causing significant adverse impacts to the wetland.

If filters with backwash waters are used, the backwash water shall be hauled away for disposal, returned to the beginning of the treatment process, or incorporated into site in a manner that does not cause erosion. Backwash water may be discharged to sanitary sewer if permission is granted by the sanitary sewer authority.

POLLUTION PREVENTION:

Building products that have the potential to leach pollutants must be under cover to prevent discharge or protected by an effective means designed to minimize contact with stormwater.

Pesticides, herbicides, insecticides, fertilizers, treatment chemicals, and landscape materials must be under cover.

Hazardous materials and toxic waste must be properly stored in sealed containers to prevent spills, leaks or other discharge. Restricted access storage areas must be provided to prevent vandalism.

Solid waste must be stored, collected and disposed of properly.

Portable toilets must be positioned so that they are secure and will not be tipped or knocked over. Sanitary waste must be disposed of properly.

Discharge of spilled or leaked chemicals, including fuel, from any area where chemicals or fuel will be loaded or unloaded shall be prevented using drip pans or absorbents. Supplies shall be available at all times to clean up discharged materials and that an appropriate disposal method must be available for recovered spilled materials.

Exterior vehicle or equipment washing on the project site shall be limited to a defined area of the site. Runoff from the washing area shall be contained in a sediment basin or other similarly effective controls and waste from the washing activity must be properly disposed of. No engine degreasing is allowed on site.

Effective containment for all liquid and solid wastes generated by concrete and other washout operations related to construction activity shall be effectively contained. Liquid and solid washout waste shall not contact the ground, and containment must be designed so that it does not result in runoff from the washout operations or areas. A sign must be installed adjacent to each washout facility that requires site personnel to utilize the proper facilities for disposal of concrete and other washout wastes.

INSPECTION & MAINTENANCE:

A trained person shall routinely inspect the entire construction site at least once every 7 days during active construction and within 24-hours after a rainfall event greater than 0.5 inches in 24 hours. Following an inspection that occurs within 24-hours after a rainfall event, the next inspection must be conducted within 7 days.

All inspections and maintenance conducted during construction must be recorded within 24 hours in writing and records must be retained with the SWPPP. Inspection report forms are available in the Project Specifications. Inspection report forms other than those provided shall be approved by the engineer.

During frozen ground conditions, inspections may be suspended and shall resume within 24 hours after runoff occurs or 24 hours prior to resuming construction activity, whichever is first.

Inspection and maintenance shall resume until another Permittee has obtained coverage under this Permit or the project has undergone Final Stabilization, and an NOT has bee submitted.

All erosion prevention and sediment control BMPs shall be inspected to ensure integrity and effectiveness during all routine and post-rainfall inspections. All non-functioning BMPs must be repaired, replaced, or supplemented with functional BMPs by the end of the next business day after discovery, or as soon as field conditions allow

Streets and other areas adjacent to the project must be inspected for evidence of off-site accumulations of sediment. If sediment is present, it must be removed in a manner and at a sufficient frequency to minimize off-site impacts.

POLLUTION PREVENTION

Products and materials that have the potential to leach pollutants that are stored on the site must be stored in a manner designed to minimize contact with stormwater. Materials that are not a source of potential contamination to stormwater or that are designed for exposure to stormwater are not required to be covered.

Hazardous materials including but not limited to pesticides, fertilizer, petroleum products, curing compounds and toxic waste must be properly stored and protected from stormwater exposure as recommended by the manufacturer in an access restricted area.

Solid waste must be stored, collected and disposed of in compliance with the WPDES Permit.

Portable toilets must be positioned so that they are secure and will not be tipped or knocked over. Sanitary waste must be disposed of properly in accordance with the WPDES Permit.

Exterior vehicle or equipment washing on the project site shall be limited to a defined area of the site. No engine degreasing is allowed on site. A sign must be installed adjacent to each washout facility that requires site personnel to utilize the proper facilities for disposal of concrete and other washout wastes.

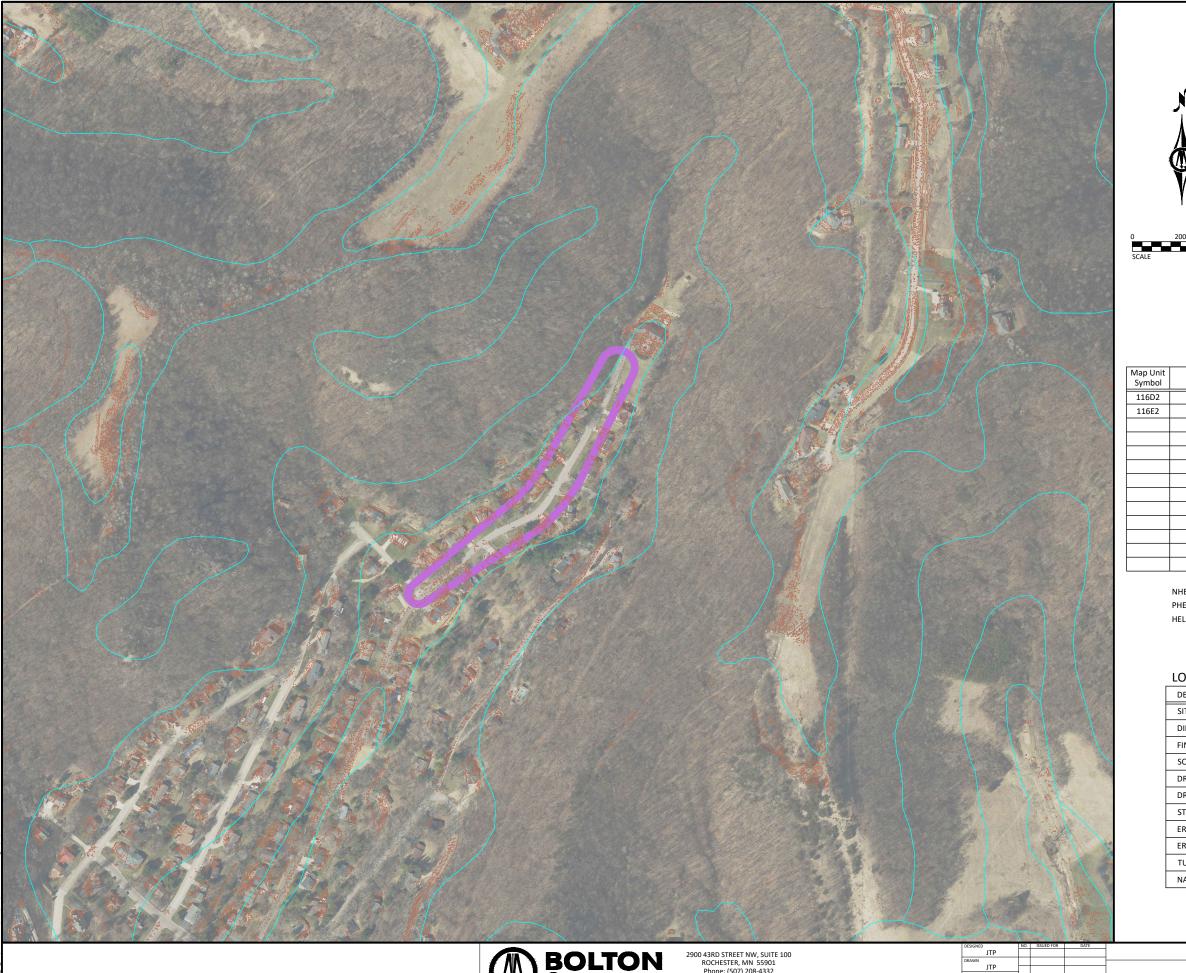
The Contractor shall prepare and submit an amendment detailing the location and BMPs proposed for storage of materials, solid waste, portable toilets, and exterior vehicle or equipment washing on the site. The amendment shall include a spill prevention and response plan that is appropriate for the materials proposed to be on the site. The amendment shall meet or exceed the minimum requirements of the WPDES Permit.

SPECIAL ENVIRONMENTAL CONSIDERATIONS:

1)	Was an environmental review required for this project or any part of a common plan of development or sale that includes all or any portion of this project?	NO
2)	Does any portion of the site have the potential to affect threatened or endangered species or their critical habitat?	NO
3)	Does any portion of this site discharge to a Calcareous fen.	NO
4)	Will any portion of the site potentially affect properties listed on the National Register of Historic Places or a known or discovered archeological site?	NO
5)	Have any Karst features have been identified in the project vicinity?	NO
6)	Is compliance with temporary or permanent stormwater management design requirements infeasible for this project?	NO
7)	Has the WI DNR promulgated "work in water restrictions" for any Public Water this site disharges to during fish spawning?	NO



C2.02



LEGEND

PROJECT BOUNDARY



SOIL TYPE



STEEP SLOPES (>33.3%)

SOIL TYPE SUMMARY

Map Unit Symbol	Soil Name	Hyd. Soil Group	Erodibility
116D2	CHURCHTOWN	В	CLASS 2
116E2	CHURCHTOWN	В	CLASS 2

NHEL - Not Highly Erodible Land PHEL - Potentially Highly Erodible Land HEL - Highly Erodible Land

LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN

DESCRIPTION	SHEET NO.						
SITE MAP	C2.01						
DIRECTION OF FLOW	C2.04						
FINAL STABILIZATION	C2.04						
SOILS	C2.03						
DRAINAGE STRUCTURES	C5.01-C5.04, C1.06						
DRAINAGE TABULATION	C1.02						
STORM SEWER PLAN & PROFILE SHEETS	C5.01-C5.04						
EROSION & SEDIMENT CONTROL DETAILS	C2.05 & 2.06						
EROSION CONTROL TABULATION	C1.04						
TURF ESTABLISHMENT TABULATION	C1.04						
NARRATIVE & NOTES	C2.01 - C2.02						

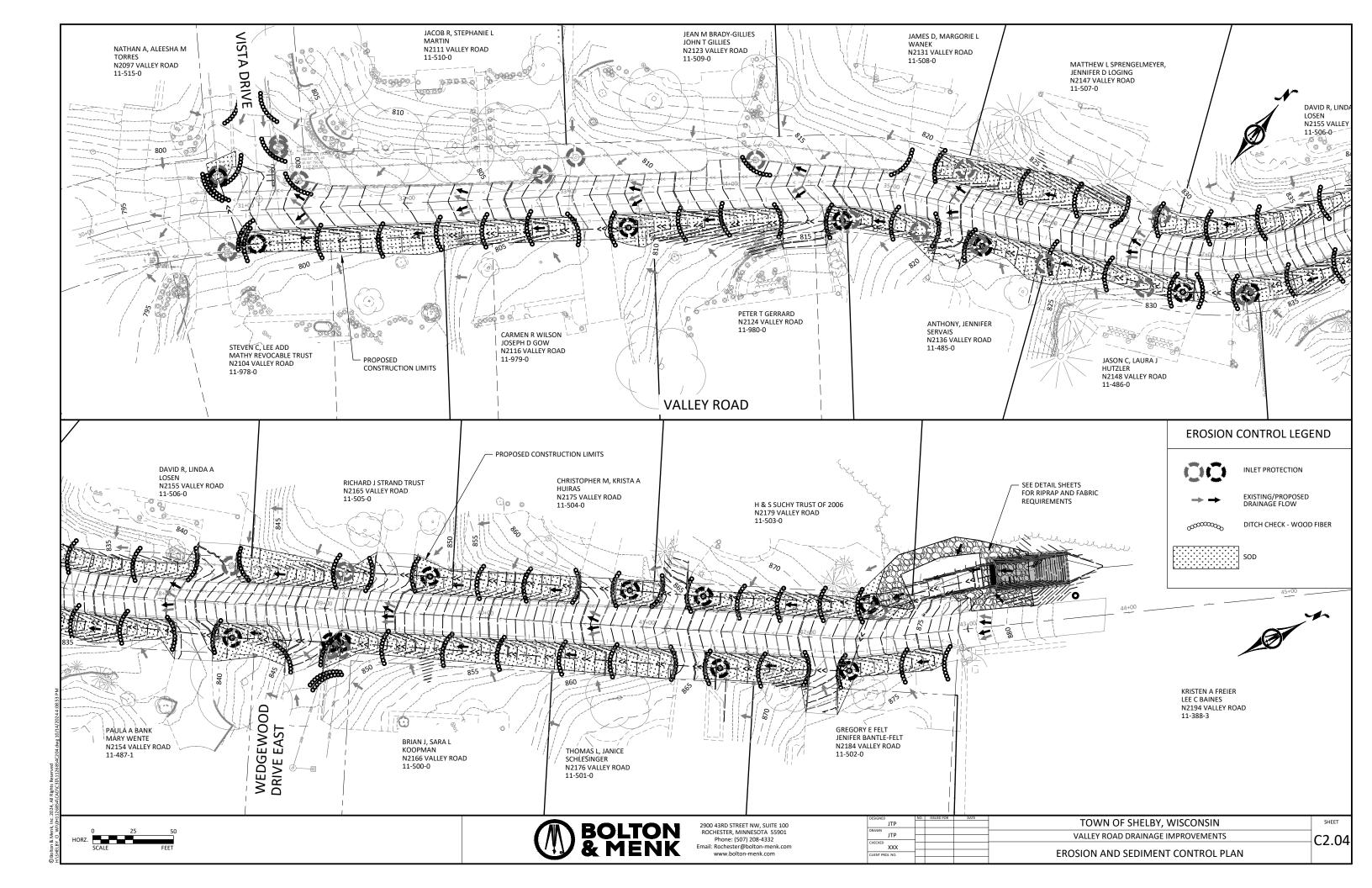
BOLTON & MENK

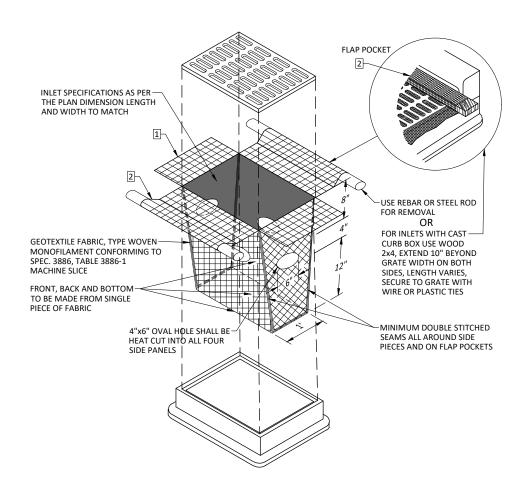
2900 43RD STREET NW, SUITE 100 ROCHESTER, MN 55901 Phone: (507) 208-4332 Email: Rochester@bolton-menk.com www.bolton-menk.com

XXX

TOWN OF SHELBY, WISCONSIN VALLEY ROAD DRAINAGE IMPROVEMENTS EROSION AND SEDIMENT CONTROL PLAN
SITE AND SOILS MAP

C2.03





NOTES:

NOTES: AND LISTED ON THE DEPARTMENTS EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL IN THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

[2] FINISHED SIZE, INCLUDING POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR

FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2x4.

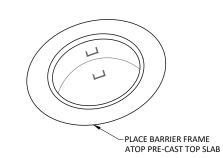
INSTALLATION NOTES:

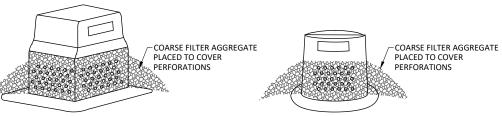
DO NOT INSTALL PROTECTION IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CLINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



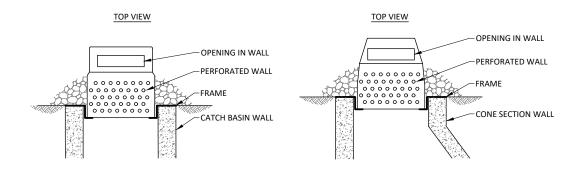




PLACE BARRIER FRAME

ATOP PRE-CAST TOP SLAB





INLET PROTECTION GEOTEXTILE BAG NOT TO SCALE

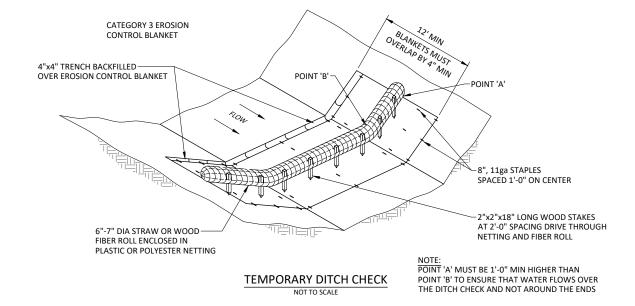
LAST REVISION: 04-2021 PLATE NO. 3-104

INLET PROTECTION PERFORATED WALL LAST REVISION: 04-2021 PLATE NO 3-107

C2.05

TOWN OF SHELBY, WISCONSIN JTP JTP **VALLEY ROAD DRAINAGE IMPROVEMENTS EROSION AND SEDIMENT CONTROL PLAN** XXX **EROSION AND SEDIMENT CONTROL DETAILS**

2900 43RD STREET NW, SUITE 100 ROCHESTER, MN 55901 Phone: (507) 208-4332 www.bolton-menk.com



BOLTON & MENK TOWN OF SHELBY, WISCONSIN

JTP

VALLEY ROAD DRAINAGE IMPROVEMENTS

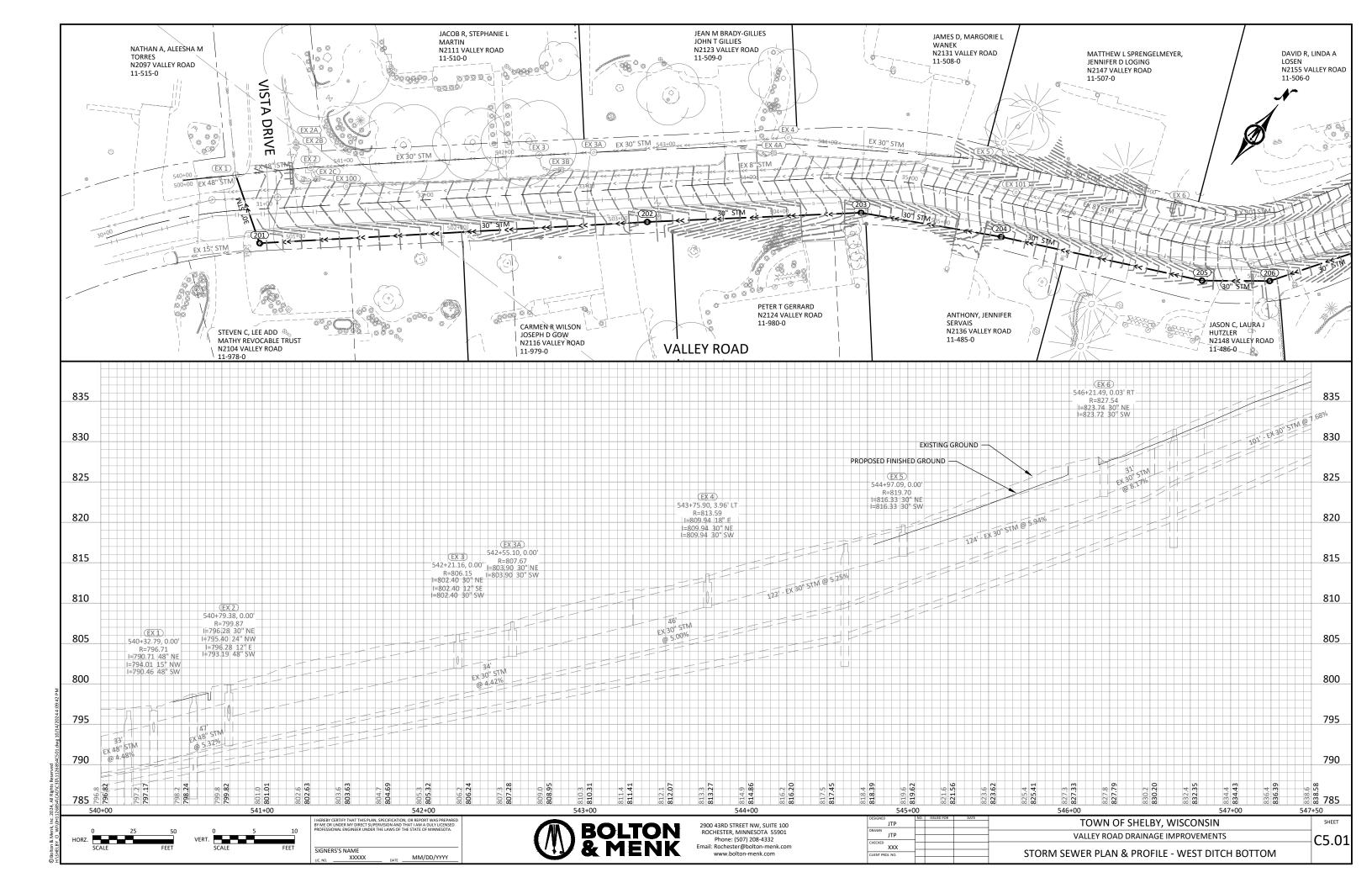
EROSION AND SEDIMENT CONTROL PLAN

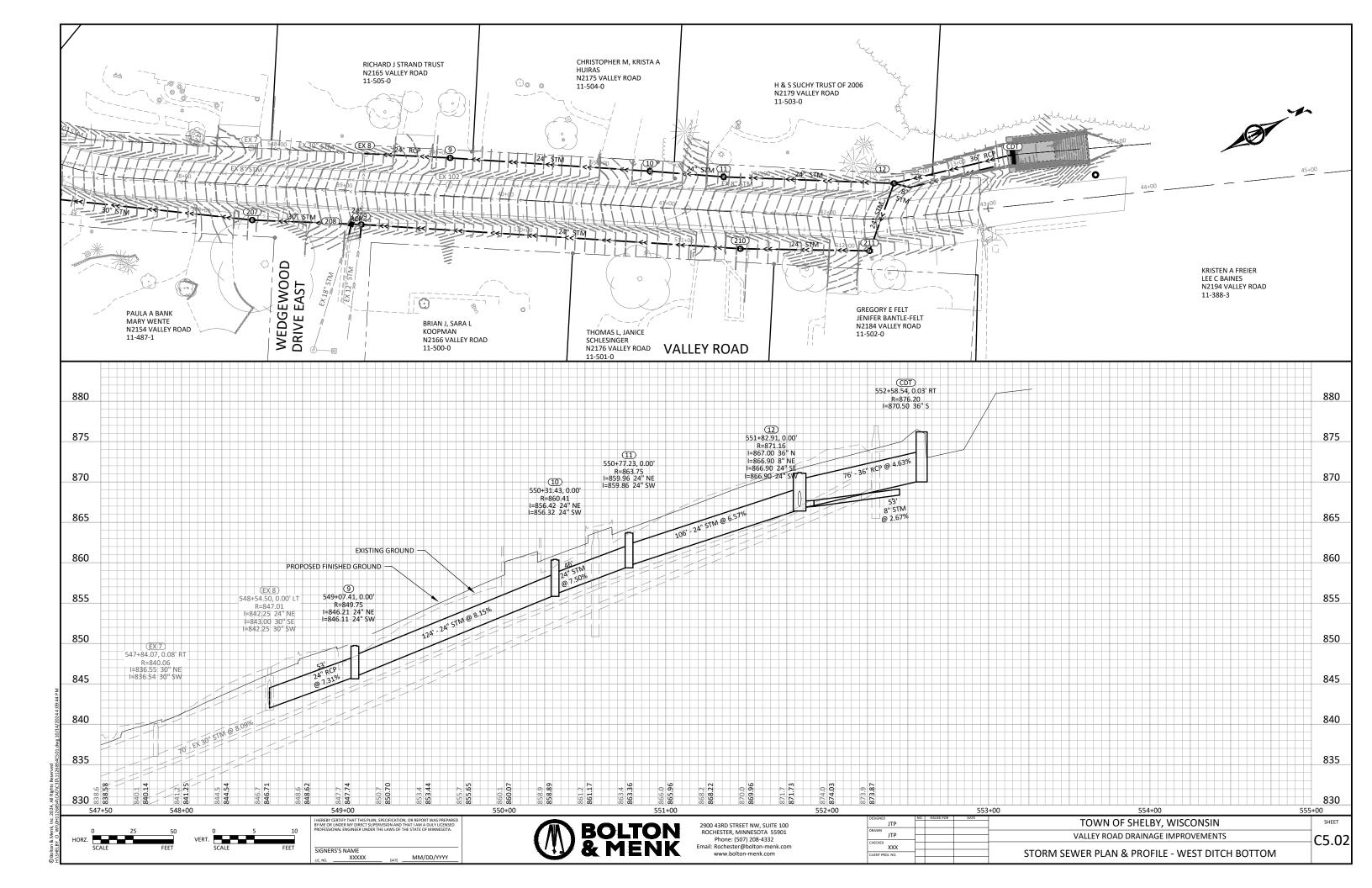
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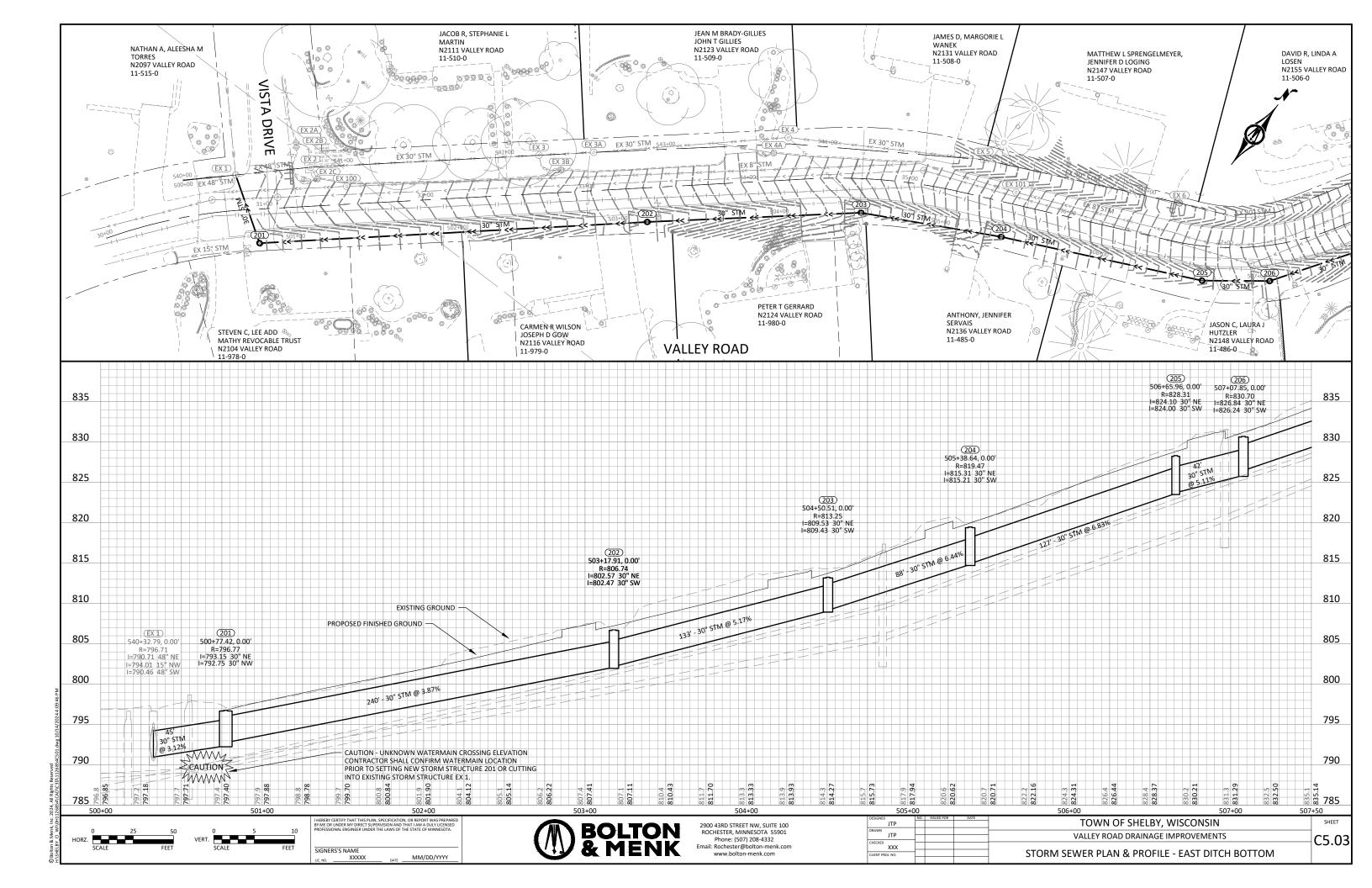
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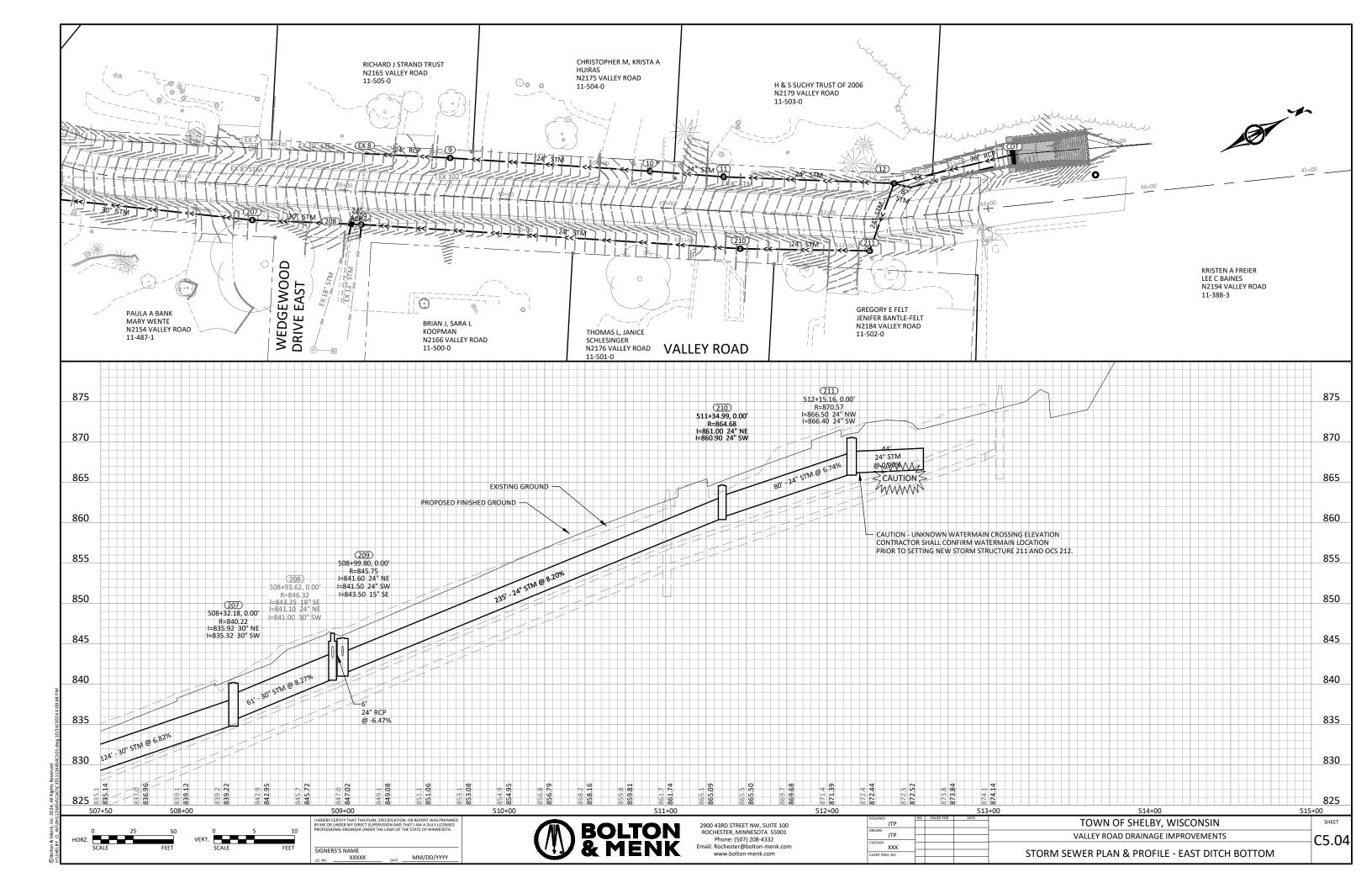
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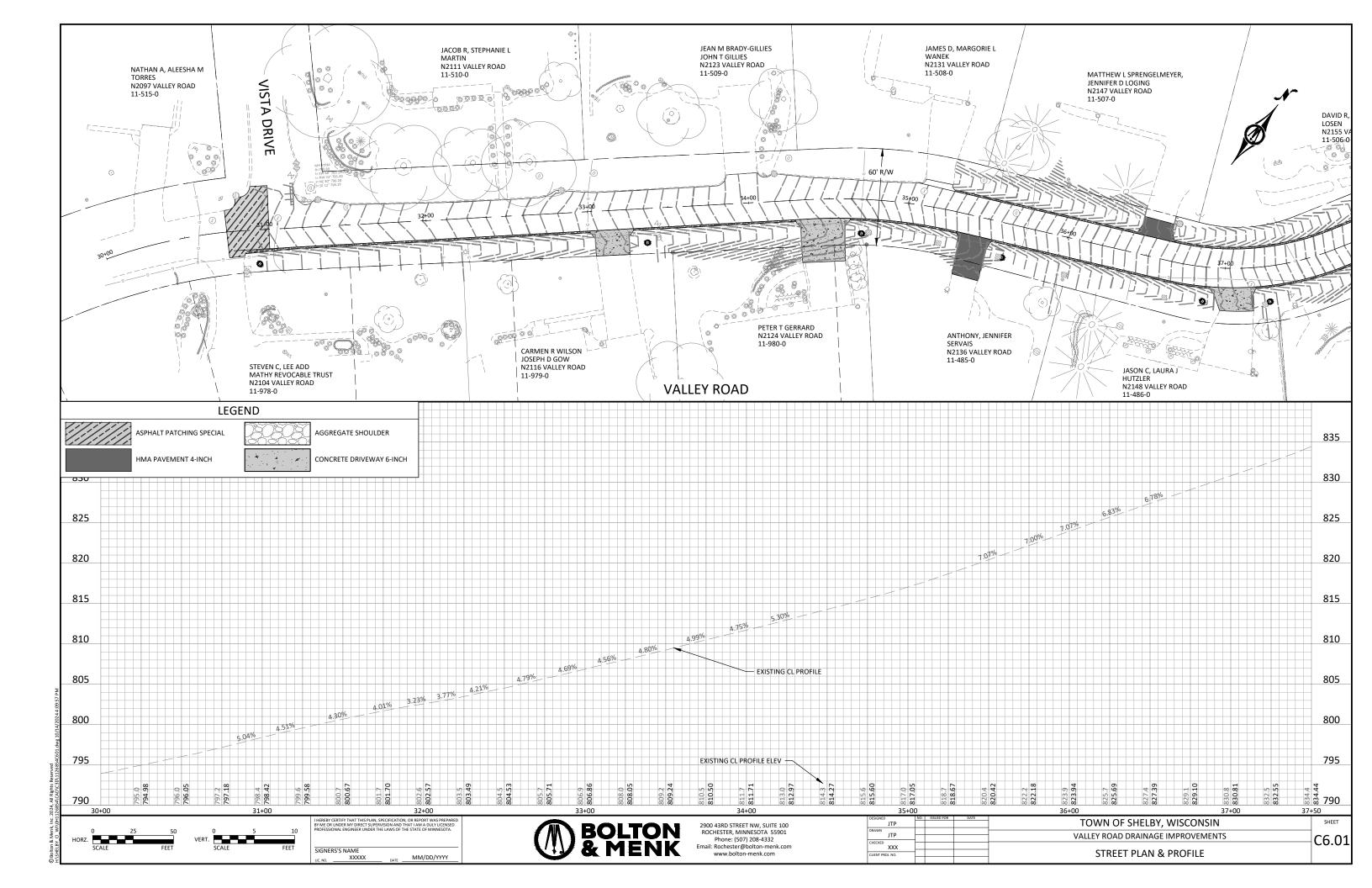
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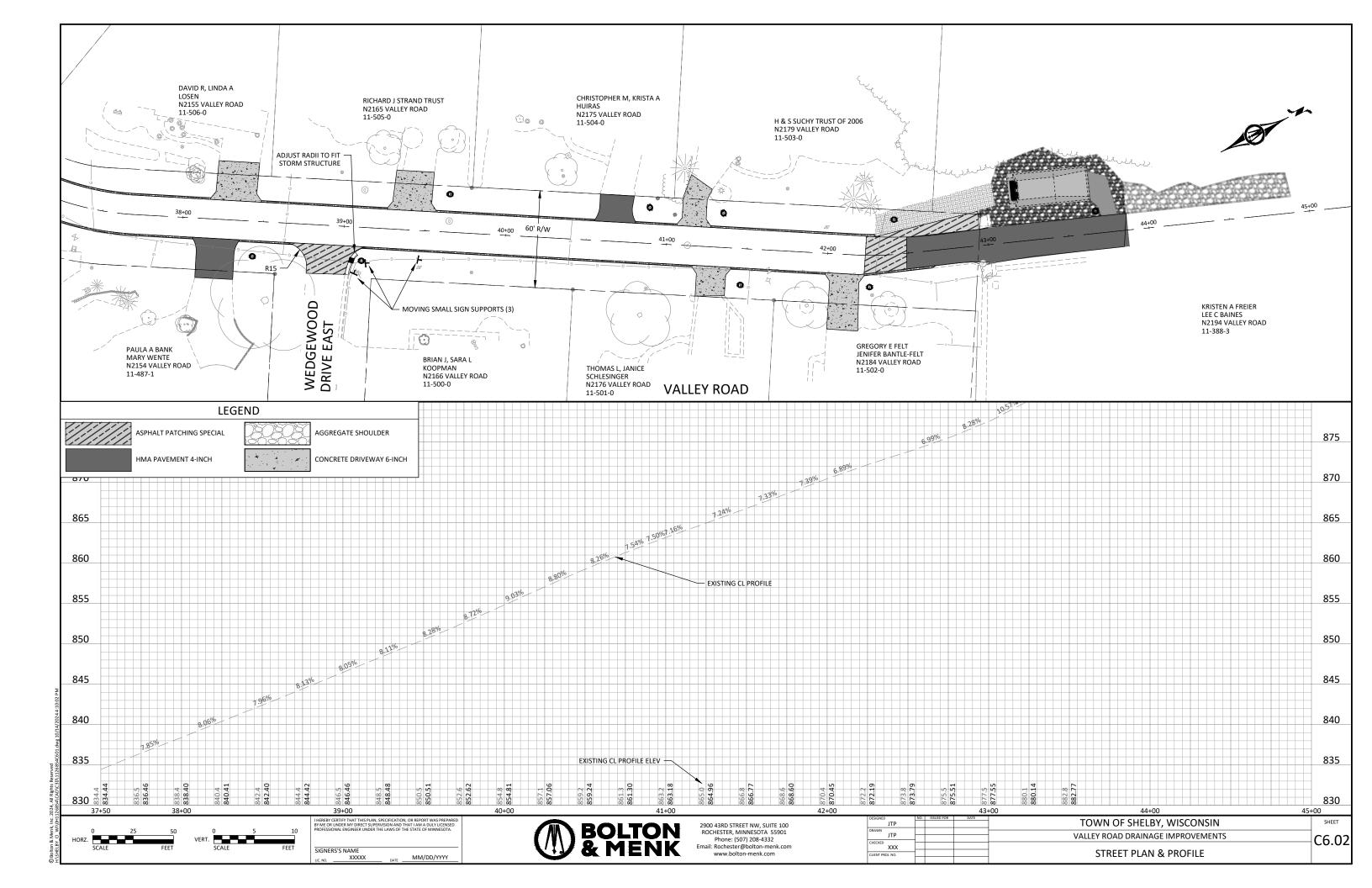


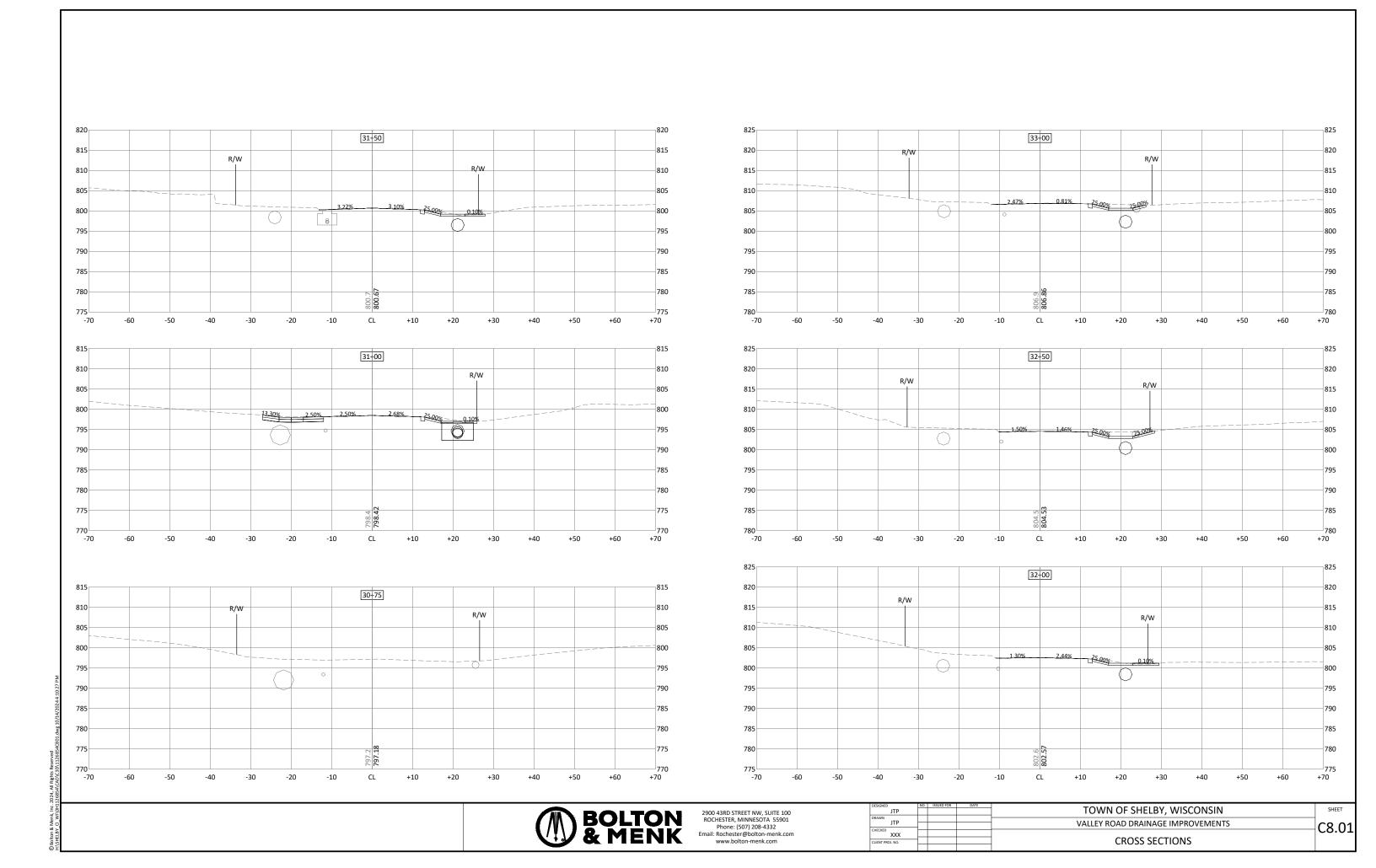


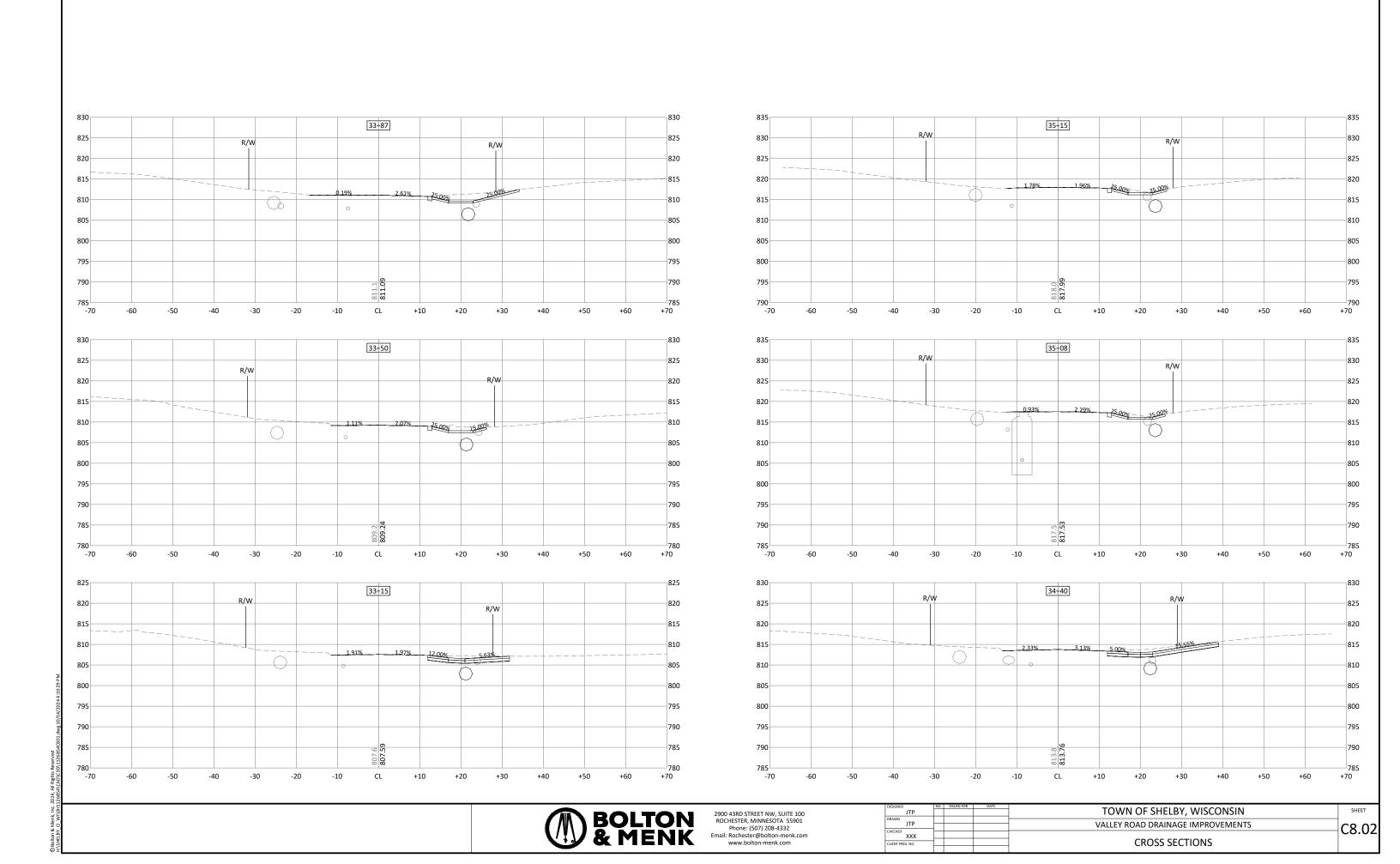


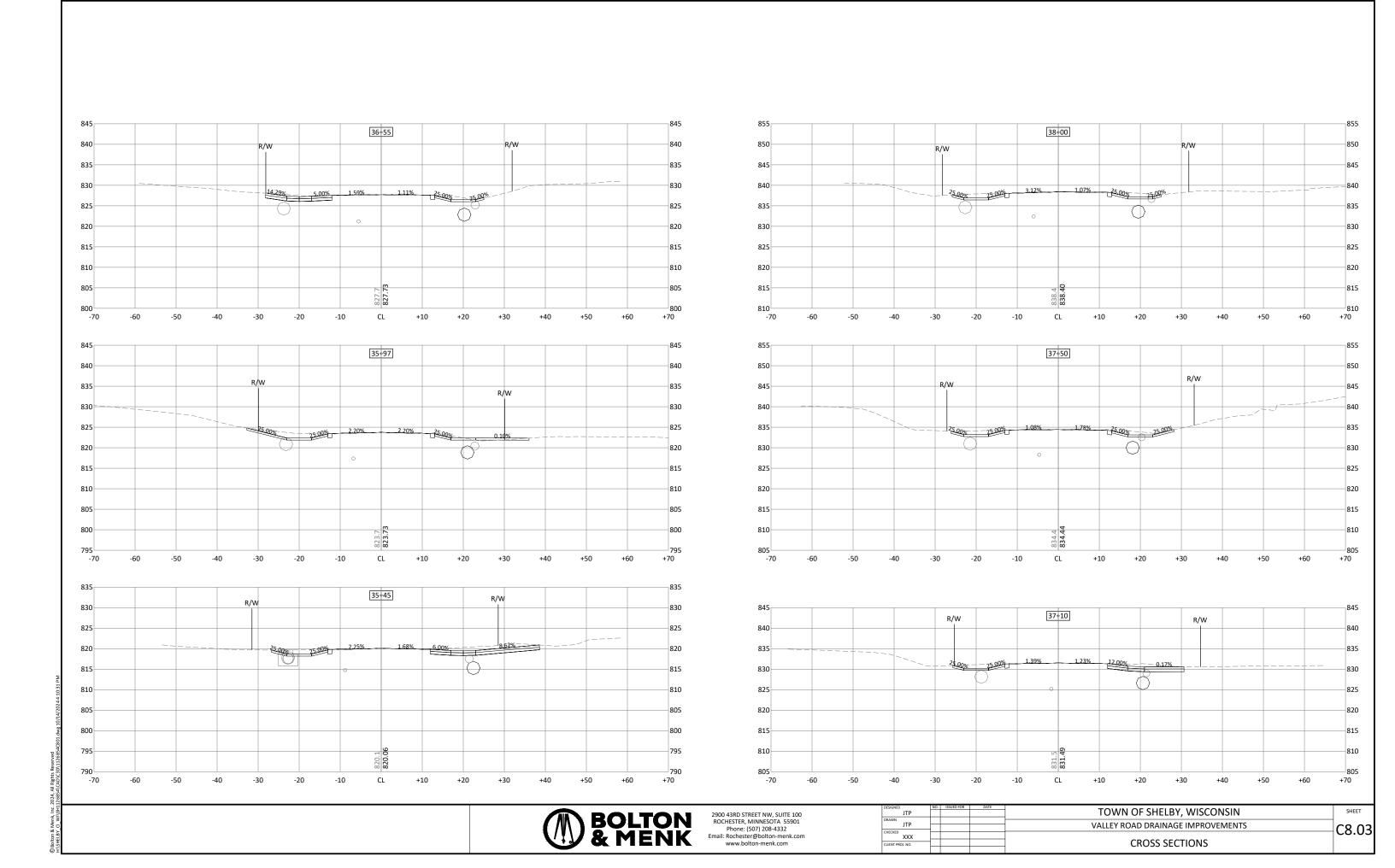


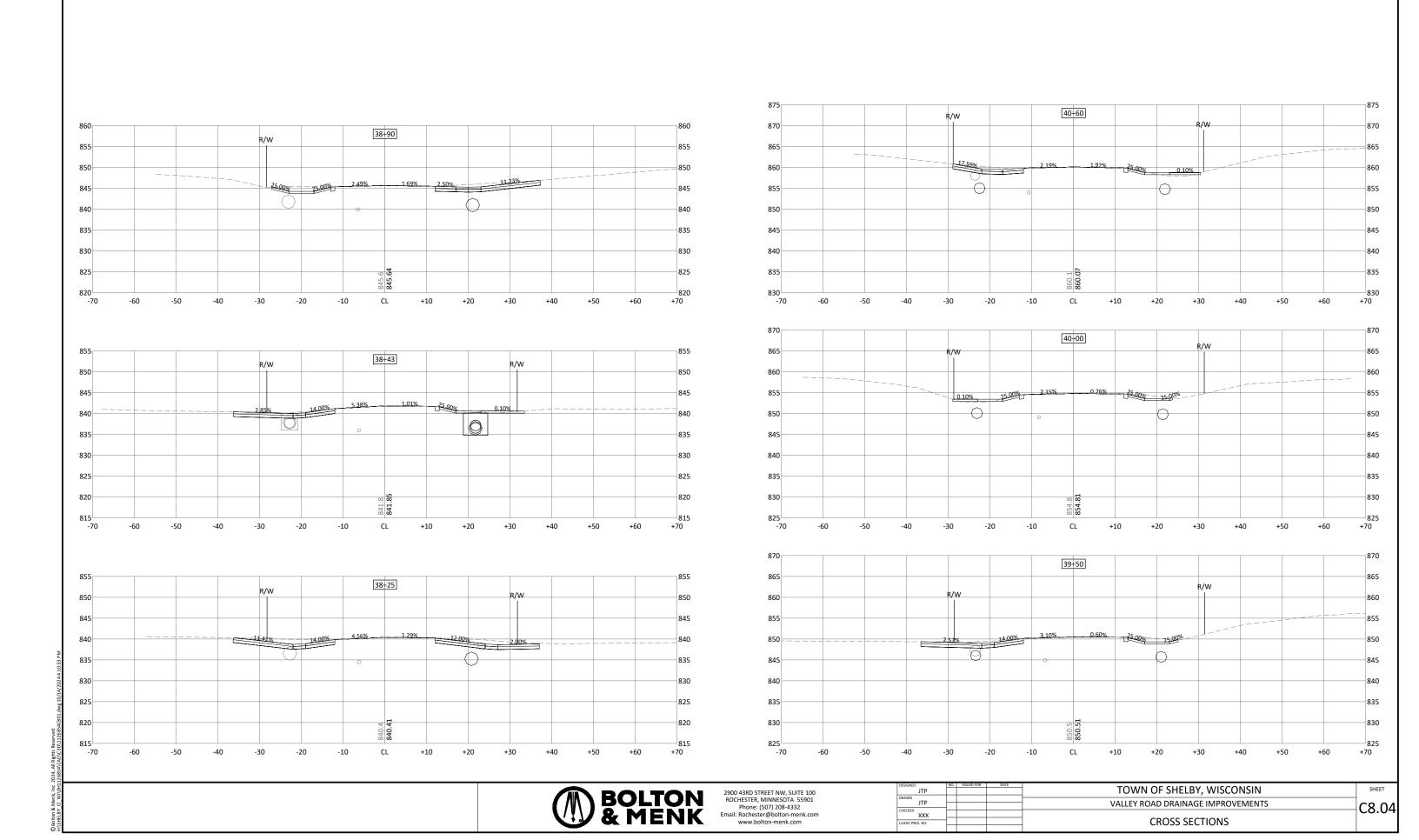


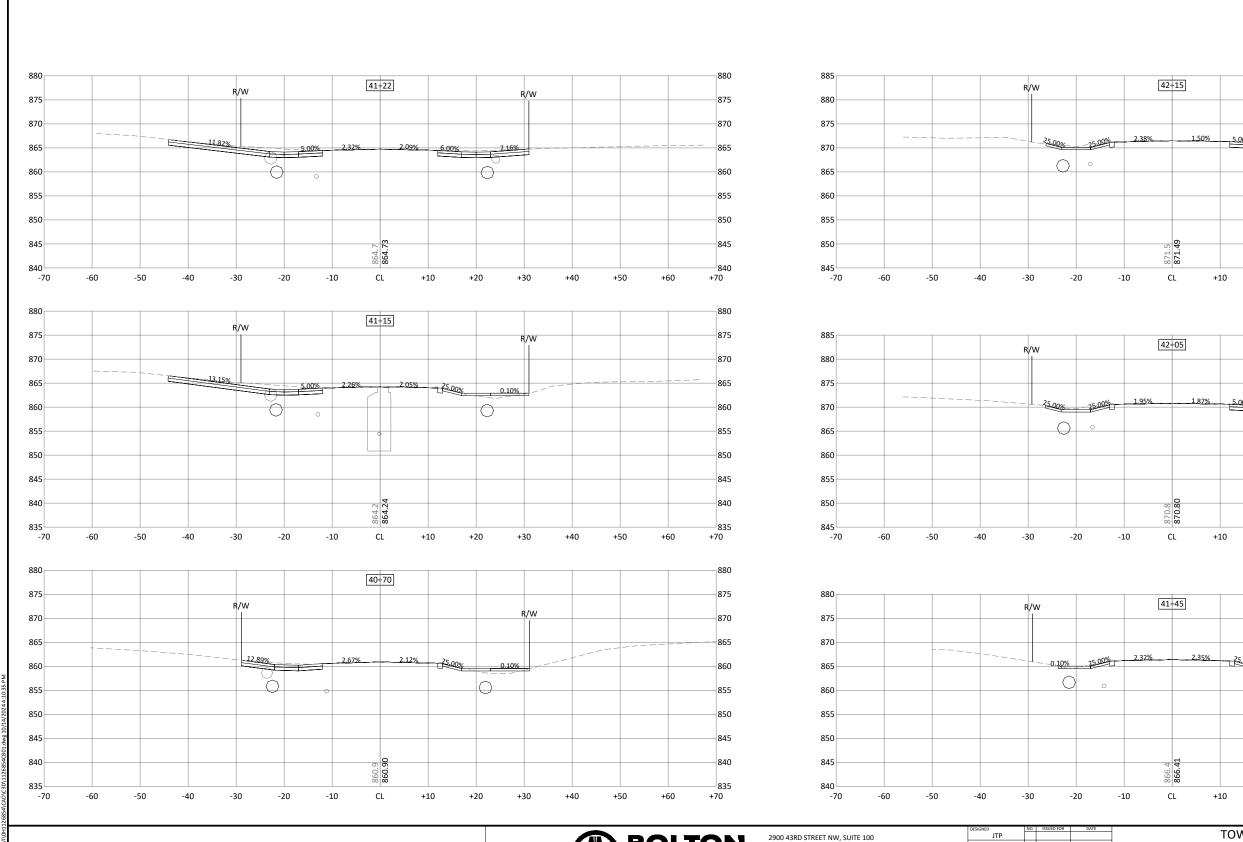


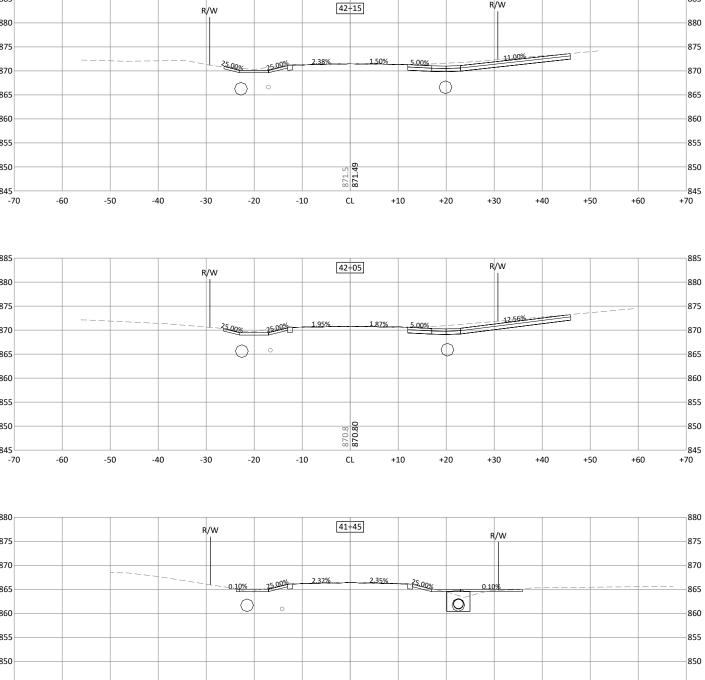


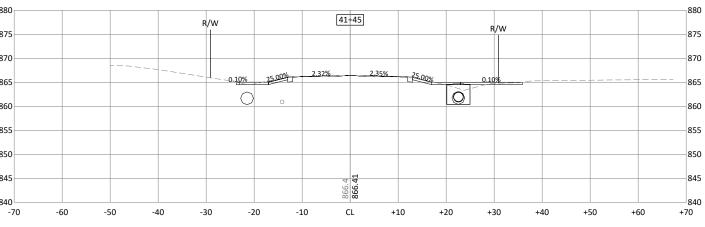






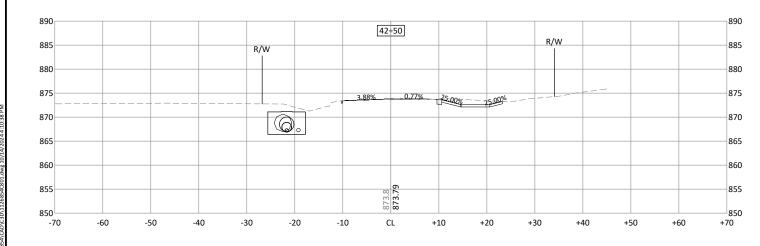








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