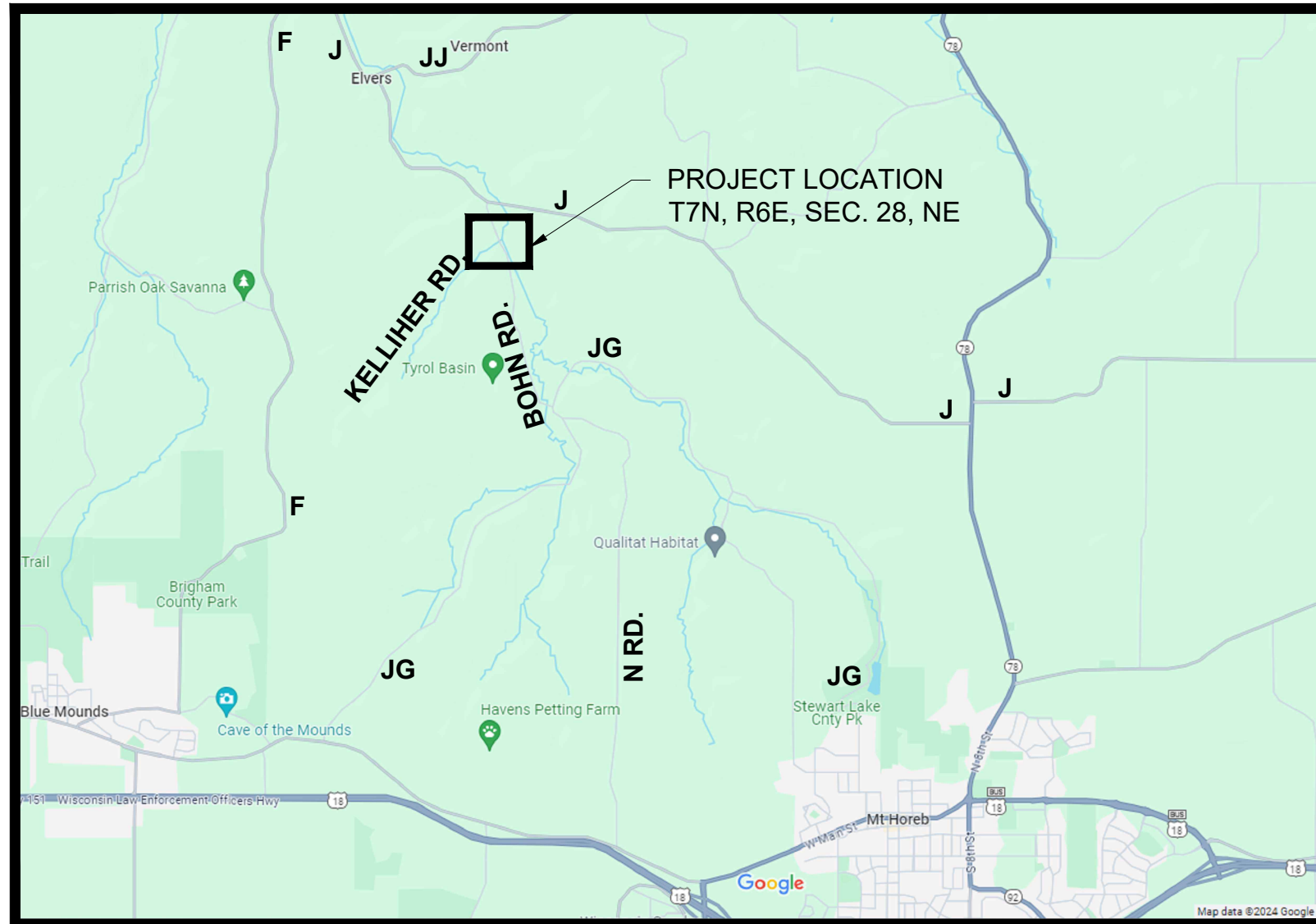


BOHN ROAD STRUCTURE REPLACEMENT TOWN OF VERMONT

WISCONSIN
DANE COUNTY



PROJECT LOCATION MAP

TRAVEL DIRECTIONS:

FROM MT. HOREB TRAVEL NORTH ON STH 78 FROM BUS 18 FOR 2.2 MILES TO THE JUNCTION WITH CTH J, TURN LEFT AND TRAVEL WEST 3.2 MILES TO THE JUNCTION WITH BOHN ROAD, TURN LEFT AND TRAVEL SOUTH ON BOHN ROAD FOR 0.2 MILES. LATITUDE 43.056213, AND LONGITUDE -89.783478.

INDEX OF SHEETS

SHEET	SHEET TITLE	DATE
G-01	COVER SHEET	1/21/2025
C-01	GENERAL NOTES, CONTROL POINTS, AND QUANTITIES	1/21/2025
C-02	TEMPORARY TRAFFIC CONTROL PLAN	1/14/2025
C-03	EROSION CONTROL PLAN	1/16/2025
C-04	TYPICAL SECTION, PLAN AND PROFILE	1/14/2025
C-05-09	CONSTRUCTION DETAILS	1/14/2025
C-10-11	CROSS SECTIONS	1/14/2025



APPROVED:

TOWN OF VERMONT _____

DATE _____

LEGEND

ELECTRIC PEDESTAL	⊠	LIGHT POLE	⊠
TELEPHONE PEDESTAL	x	SINGLE POLE SIGN	⊠
BOLLARD	•	MARK CMK	⊠
CLEAN OUT	⊙ CO	GAS VALVE	⊠
WATER VALVE	• WV	CONTROL POINT	⊠
MAIL BOX	⊠ MB	SANITARY MANHOLE	⊠ SAN
STORM SEWER MANHOLE	⊙ SS	INLET FLOOD DRAIN	⊠
FIRE HYDRANT	⊙	YARD LIGHT	⊠
POWER POLE	⊠	SATELLITE DISH	⊠
FLAG POLE	• FLAG	WITNESS CORNER MONUMENT	⊠
BENCHMARK	⊠	LIGHT POLE MAST ARM	⊠
LAND CONIFEROUS SHRUB	⊠	ELECTRIC/GAS METER	⊠
LAND DECIDUOUS TREE	⊠		
EXISTING SANITARY SEWER LINE	— SAN		
BURIED GAS LINE	— G		
BURIED ELECTRIC LINE	— E		
EXISTING STORM SEWER LINE	— SS		
BURIED WATER SERVICE	— W		
OVERHEAD UTILITY	— OH		
UNDERGROUND TELEPHONE LINE	— T		
UNDERGROUND FIBER OPTIC SECTION LINE	— FO		
PROPERTY LINE	---		

ABBREVIATIONS

AGG.	AGGREGATE
ASPH.	ASPHALT
BM	BENCHMARK
CP	CONTROL POINT
DIA.	DIAMETER
EX.	EXISTING
FT	FOOT
IN	INCH
LHF	LEFT HAND FORWARD
MAX.	MAXIMUM
MIN.	MINIMUM
NOR.	NORMAL
RHF	RIGHT HAND FORWARD
SHLD	SHOULDER
STA.	STATION
TYP.	TYPICAL
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENT
VAR.	VARIES
W/	WITH

UTILITIES

ALL UTILITY LOCATIONS ARE SHOWN FROM FIELD OBSERVATION BASED UPON LOCATES AND/OR INFORMATION RECEIVED FROM OTHER SURVEYS AND VARIOUS UTILITY COMPANIES. BEFORE THE START OF ANY EXCAVATION, A COMPLETE LOCATE OF ALL UTILITIES WITH THE CONSTRUCTION AREA SHOULD BE COMPLETED.

TO OBTAIN LOCATIONS OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN.



CALL DIGGERS HOTLINE 1-800-242-8511 TOLL FREE WI STATUTE 182.0175(1974) REQUIRES MIN. 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

CONTROL POINTS						
PNT. NO.	STATION	OFFSET	NORTHING	EASTING	ELEV.	DESCRIPTION
BM1	5+02.2	24.65'	476401.05	714425.86	828.72	BM /NO. 1-IRON_ROD-3/4" DIA_SET
BM2	3+06.07	22.29'	476223.44	714498.04	830.25	BM /NO. 2-IRON_ROD-3/4" DIA_SET
CP3	3+87.44	28.46'	476295.30	714470.60	826.71	NAIL /CP
CP4	4+02.58	-36.81'	476286.01	714404.25	830.63	NAIL /CP

COORDINATE SYSTEM: WisCORS, DANE COUNTY HORIZONTAL DATUM: NAD83(2011)
VERTICAL DATUM: NAVD88(2012); US SURVEY FOOT

QUANTITIES			
Item No.	Description	Unit	Approx. Quantity
201.0105	Clearing	STA	2.6
201.0205	Grubbing	STA	2.6
203.0220	Removing Structure	EACH	1
204.0165	Removing Guardrail	LF	226
205.0100	Excavation Common	CY	61
211.0500	Prepare Foundation for Base Aggregate	STA	0.4
213.0100	Finishing Roadway	EACH	1
305.0110	Base Aggregate Dense 3/4-Inch	TON	33
305.0120	Base Aggregate Dense 1 1/4-Inch	TON	24
305.0500	Shaping Shoulders	STA	2.6
455.0605	Tack Coat	GAL	7
465.0105	Asphaltic Surface	TON	21
526.0101	Temporary Structure	EACH	1
606.0300	Riprap Heavy	CY	32
619.1000	Mobilization	EACH	1
625.0500	Salvaged Topsoil	SY	300
627.0200	Mulching	SY	240
628.1104	Erosion Bales	EACH	5
628.1504	Silt Fence	LF	410
628.1520	Silt Fence Maintenance	LF	410
628.1905	Mobilizations Erosion Control	EACH	3
628.1910	Mobilizations Emergency Erosion Control	EACH	2
628.2008	Erosion Mat Class I Urban Type B	SY	120
628.5505	Polyethylene Sheeting	SY	30
629.0210	Fertilizer Type B	CWT	0.3
630.0120	Seeding Mixture No. 20	LB	10
633.0100	Delineator Posts Steel	EACH	4
637.2230	Signs Type II Reflective F	SF	2
643.0420	Traffic Control Barricades Type III	DAY	390
643.0900	Traffic Control Signs	DAY	240
643.5000	Traffic Control	EACH	1
645.0120	Geotextile Type HR	SY	83
650.4500	Construction Staking Subgrade	LF	40
650.5000	Construction Staking Base	LF	40
650.6501	Construction Staking Structure Layout (V-13-XX)	EACH	1
650.9920	Construction Staking Slope Stakes	LF	40
690.0150	Sawing Asphalt	LF	46
999.2000.S	Installing and Maintaining Bird Deterrent System, Sta. 3+75	EACH	1
SPV.0060	Aluminum Box Culvert	EACH	1

GENERAL NOTES

- THE GOVERNING SPECIFICATIONS SHALL BE THE STANDARD SPECIFICATIONS FOR ROAD AND STRUCTURE CONSTRUCTION, THE LATEST EDITION (SSRSC) PUBLISHED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION (WisDOT).
- THE WORK COVERED BY THESE PLANS INCLUDES SALVAGE GUARDRAIL, CLEARING AND GRUBBING, BRIDGE REMOVAL, EARTHWORK, ALUMINUM BOX CULVERT, HEAVY RIPRAP, SIGNING, SALVAGED TOPSOIL LANDSCAPING, AND PLACEMENT OF EROSION CONTROL AND SLOPE PROTECTION (INCLUDING TEMPORARY PIPE AND COFFERDAMS).
- THE CONTRACTOR SHALL CONTACT DIGGERS HOTLINE A MINIMUM OF 3 WORKING DAYS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO INSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.
- BOHN ROAD SHALL BE CLOSED TO THRU TRAFFIC AT THE STREAM CROSSING DURING CONSTRUCTION. DURATION OF CLOSURE SHALL NOT EXCEED 30 CONSECUTIVE DAYS. ROAD/BRIDGE CLOSURE SIGNING SHALL BE IN PLACE PRIOR TO CLOSING ROAD.
- CONSTRUCTION TIMING: ONCE WATERWAY WORK BEGINS (BELOW THE ORDINARY HIGH WATER MARK (OHWM)), ALL CONSTRUCTION ACTIVITIES IN THOSE WATERWAYS MUST BE CONTINUOUS TO THE GREATEST EXTENT PRACTICABLE UNTIL THE WORK IS COMPLETED AND THE SITE IS STABILIZED. IF PERIODS OF INACTIVITY ARE UNAVOIDABLE, THE SITE MUST BE TEMPORARILY STABILIZED UNTIL THE WORK IS RESUMED AND COMPLETED.
- TIMING RESTRICTIONS: TO MINIMIZE ADVERSE IMPACTS ON FISH MOVEMENT, FISH SPAWNING, AND EGG INCUBATION PERIODS, WORK BELOW THE OHWM MAY NOT OCCUR BETWEEN SEPTEMBER 15 TO MAY 15.
- WETLANDS: VEGETATION, MATERIAL, SOIL STOCKPILES, OR EQUIPMENT CANNOT BE STORED IN WETLANDS (EVEN ON A TEMPORARY BASIS). THE PROJECT NEEDS TO BE CONSTRUCTED IN A MANNER THAT WILL MAINTAIN NATURAL HYDROLOGY IN THE WETLAND COMPLEX. IF THE PROJECT INCLUDES ANY WETLAND FILL, APPROVAL FROM DNR AND THE U.S. ARMY CORPS OF ENGINEERS (ACOE) IS REQUIRED.
- EROSION AND SEDIMENT CONTROL PRACTICES: THE PROJECT SITE SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES THAT ADEQUATELY CONTROL OR PREVENT EROSION, AND PREVENT DAMAGE TO WATERWAYS AND WETLANDS AS OUTLINED IN NR 151, WIS. ADM. CODE. ALL EROSION CONTROL MEASURES MUST MEET OR EXCEED THE WDNR TECHNICAL STANDARDS.
- CONSTRUCTION EQUIPMENT SHOULD NOT OPERATE ON THE BED OF THE STREAM, BELOW THE OHWM, EXCEPT FOR THAT WHICH IS NECESSARY FOR THE PLACEMENT OF THE STRUCTURE.
- A TEMPORARY BYPASS STRUCTURE WITH TEMPORARY COFFER DAM WILL BE USED TO MAINTAIN STREAM FLOW DURING CONSTRUCTION. REMOVE ALL COFFER DAMS IN SUCH A WAY THAT MINIMIZES THE RELEASE OF SEDIMENT AND OTHER DOWNSTREAM IMPACTS.
- CONSTRUCTION AND DEWATERING ACTIVITIES SHALL BE ACCOMPLISHED IN SUCH A MANNER AS TO PREVENT EROSION AND SILTATION INTO SURFACE WATERS AND WETLANDS.
- PROTECT TEMPORARY STOCKPILES OR EARTHWORK WASTE PILES FROM EROSION IF RAIN IS PROJECTED.
- UNLESS IT IS AN EMERGENCY SITUATION, AVOID CONSTRUCTION DURING PERIODS OF HIGH WATER TO AVOID FLOODING THE CONSTRUCTION SITE.
- SUITABLE FILL MATERIAL: ALL FILL MUST CONSIST OF CLEAN SUITABLE SOIL MATERIAL, AS DEFINED BY S. NR 500.03(214), WIS. ADMIN. CODE, FREE FROM HAZARDOUS SUBSTANCES AS DEFINED BY S. 289.01(11), WIS. STATS., AND FREE FROM SOLID WASTE AS DEFINED BY SS. 289.01(11) AND (33), WIS. STATS.
- DREDGING: ANY DREDGING NECESSARY TO BURY THE CULVERT WILL BE LIMITED TO THE GREATEST EXTENT POSSIBLE AND DEPOSITION OF SAND, GRAVEL, OR STONE WILL ONLY OCCUR IMMEDIATELY UNDERNEATH AND WITHIN 2 FEET OF THE CULVERT. THE WIDTH AND DEPTH OF THE WATER-WAY MUST NOT BE ALTERED.
- INVASIVE SPECIES: ALL EQUIPMENT OR PORTIONS OF EQUIPMENT USED FOR THE CULVERT REPLACEMENT SHOULD BE DECONTAMINATED FOR INVASIVE SPECIES AND VIRUSES BEFORE AND AFTER USE FOLLOWING THE MOST RECENT DNR APPROVED BMPS TO AVOID THE SPREAD OF INVASIVE SPECIES. THESE PROTOCOLS AND PRACTICES CAN BE FOUND ON THE DNR WEBSITE AT [HTTPS://DNR.WI.GOV/TOPIC/INVASIVES/BMP.HTML](https://dnr.wi.gov/topic/invasives/bmp.html) AND AT [HTTP://DNR.WI.GOV/TOPIC/INVASIVES/DOCUMENTS/EQUIPOPER.PDF](http://dnr.wi.gov/topic/invasives/documents/equipoper.pdf)
- NO MATERIAL SHALL BE CLEANED OR ALLOWED TO ERODE INTO THE STREAM NOR SHALL MATERIAL BE PLACED INTO THE WATER OR WETLANDS EXCEPT AS SHOWN ON THE PLANS.
- INSTALL AND MAINTAIN BIRD DETERRENT SYSTEM IF NEEDED.
- ALL DISTURBED GROUND SHALL BE PREPARED, NURSE CROP SEEDED, SEEDED, FERTILIZED, AND MULCHED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL IMMEDIATELY STOP WORK AND NOTIFY THE OWNER'S REPRESENTATIVE IF HERITAGE RESOURCES OR HUMAN REMAINS ARE ENCOUNTERED.
- ANY HAUL ROADS USED SHALL BE MAINTAINED BY THE CONTRACTOR AS NEEDED AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- NO WORK SHALL BE PERFORMED ON FEDERAL HOLIDAYS OR WEEKENDS WITHOUT PRIOR APPROVAL FROM THE OWNER'S REPRESENTATIVE.
- NO FILL OR STOCKPILING OF MATERIALS SHALL BE PLACED IN DRAINAGE WAYS THAT LEAD TO LAKES, STREAMS, OR WETLANDS.
- REMOVE ALL CONSTRUCTION WASTE FROM THE SITE AND DISPOSE OF PROPERLY.
- THE PROPOSED IMPROVEMENTS COVERED BY THESE PLANS ARE IN ACCORDANCE WITH WISDOT'S FACILITIES DEVELOPMENT MANUAL.
- ALL BACKFILL MATERIAL SHALL BE COMPACTED ACCORDING TO SSRSC.
- STRUCTURE EXCAVATION AND STRUCTURAL BACKFILL ARE INCIDENTAL TO THE ITEM SPV.0060, ALUMINUM BOX CULVERT.
- QUANTITIES WILL BY MEASURED AND PAID BASED ON PLAN QUANTITIES. QUANTITIES WILL NOT BE MEASURED IN THE FIELD, SEE SPECIFICATION ARTICLE 4, MEASUREMENT AND PAYMENT.
- THE CONTRACTOR SHALL POST THE DANE COUNTY PLANNING & DEVELOPMENT ZONING DIVISION (DCPDZD) FLOODPLAIN DEVELOPMENT PERMIT, NO. DCPFLO-2024-00034, AND LETTER ON SITE PRIOR TO STARTING WORK. THE PERMIT EXPIRATION DATE IS 5/11/25. THE PERMIT MAY BE EXTENDED PRIOR TO 5/11/25 FOR AN ADDITIONAL SIX (6) MONTHS WITH PRIOR COORDINATION WITH THE OWNER'S REPRESENTATIVE AND DCPDZD.
- THE CONTRACTOR SHALL POST THE DANE COUNTY WATER RESOURCE ENGINEERING (DCWRE) SHORELAND EROSION CONTROL PERMIT, NO. SE2024-0415, ON SITE PRIOR TO DISTURBING SOIL. THE PERMIT START DATE IS 6/6/25, STABILIZATION DATE OF 6/23/25, AND EXPIRATION OF 6/23/25. THE PERMIT DATES MAY BE MODIFIED AND EXTENDED PRIOR TO 6/23/25 WITH PRIOR COORDINATION WITH THE OWNER'S REPRESENTATIVE AND DCWRE. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST FIVE (5) BUSINESS DAYS IN ADVANCE OF STARTING GROUND DISTURBING ACTIVITIES. THE OWNER'S REPRESENTATIVE WILL NOTIFY DCWRE WHEN GROUND DISTURBING ACTIVITIES ARE SCHEDULED TO BEGIN AND AGAIN WHEN THE SITE HAS BEEN STABILIZED BY THE CONTRACTOR.



STAMPS, LOGOS, AND SEALS

1		
2		
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4		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**BOHN ROAD
SHORT-SPAN
BRIDGE
REPLACEMENT**

TOWN OF VERMONT

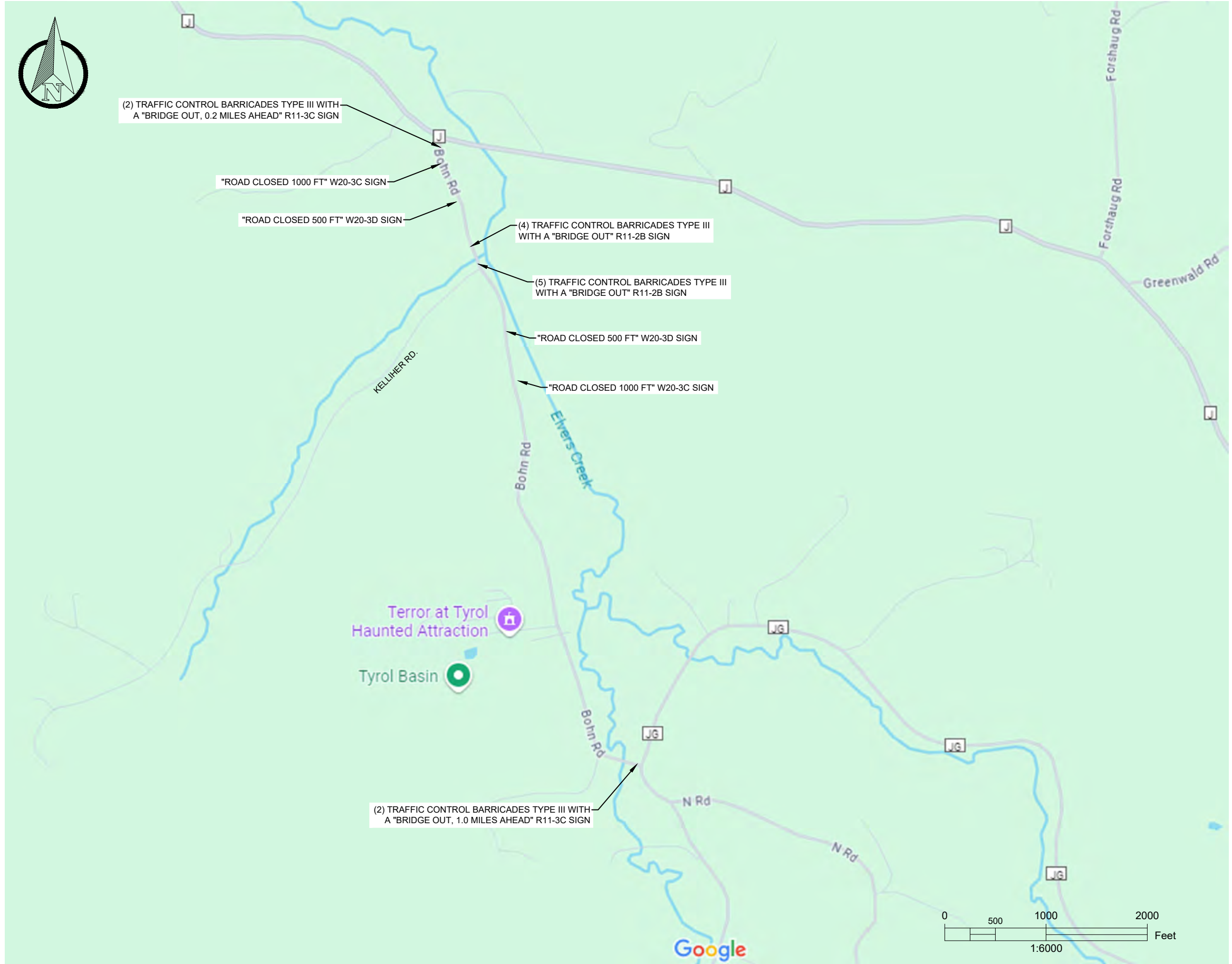
DANE COUNTY, WI

DRAWING TITLE

**GENERAL NOTES,
CONTROL POINTS, AND
QUANTITIES**

DATE 1/21/2025	ARCHIVE NO.
DESIGNER R.POLKINGHORN	DRAWING SHEET NO. C-01
DRAWN R.POLKINGHORN	
CHECKED M.MURPHY	
PROJECT NO.	SHEET 2 OF 12

1/14/25 17:44 CEDP - OWNER X:\PROJECTS\230523_ST_VERMONT_TN_BOHN RD BR REPLACEMENT\900_CADD\501_PLANS\501.3_PR03-TRAFFIC.DWG



STAMPS, LOGOS, AND SEALS

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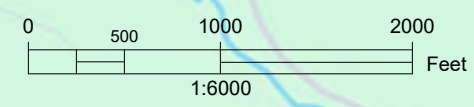
PROJECT NAME
BOHN RD. OVER TRIBUTARY TO ELVER'S CREEK

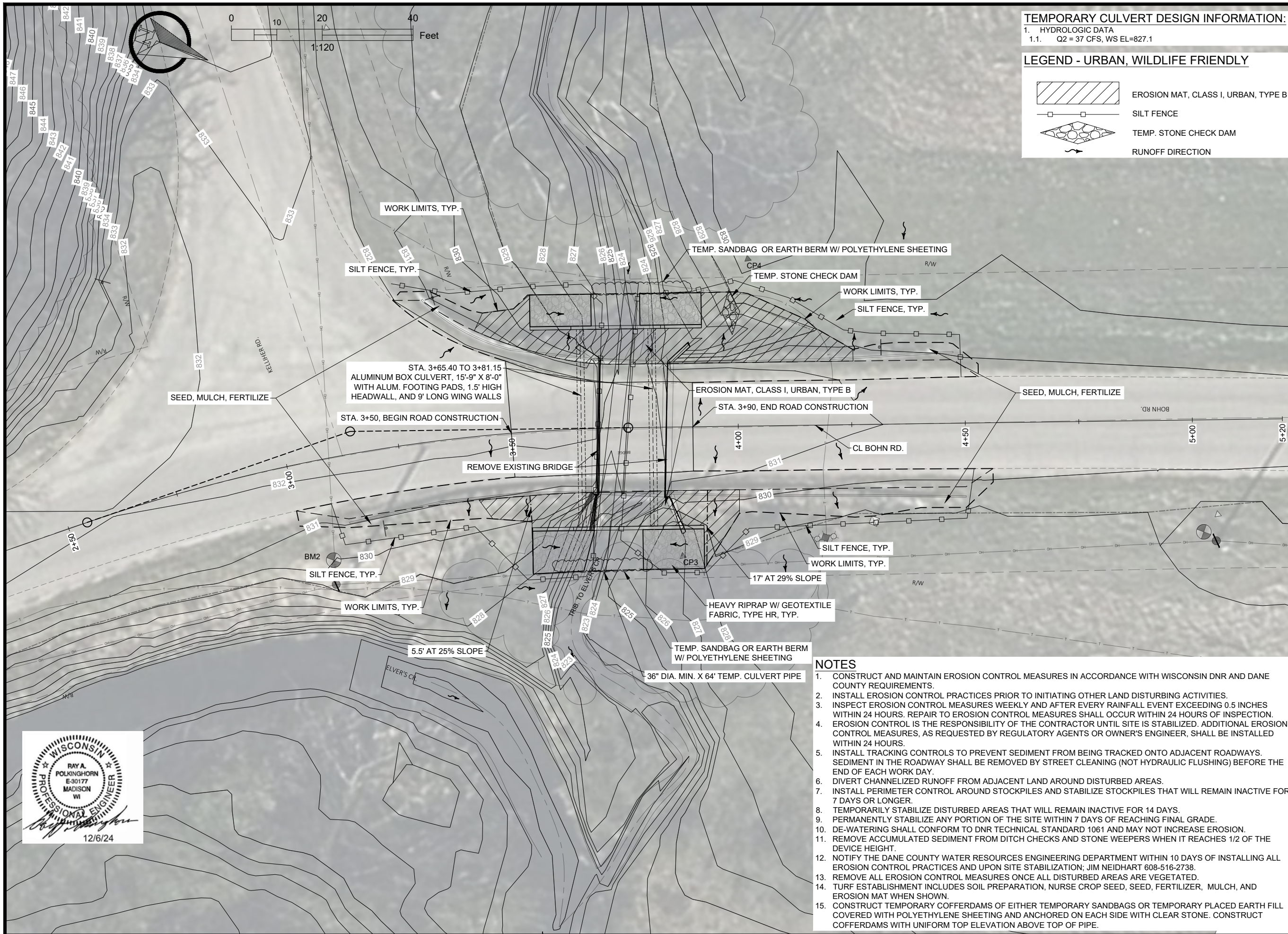
STRUCTURE REPLACEMENT

TOWN OF VERMONT

DRAWING TITLE
TEMPORARY TRAFFIC CONTROL PLAN

DATE 1/14/2025	ARCHIVE NO.
DESIGNER R. POLKINGHORN	DRAWING SHEET NO. C-02
DRAWN R. POLKINGHORN	
CHECKED	
PROJECT NO.	SHEET 3 OF 12

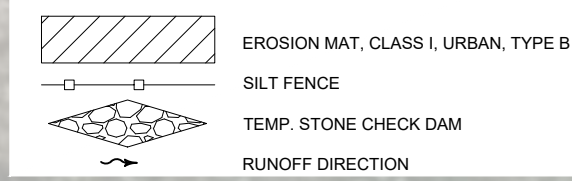




TEMPORARY CULVERT DESIGN INFORMATION:

- 1. HYDROLOGIC DATA
- 1.1. Q2 = 37 CFS, WS EL=827.1

LEGEND - URBAN, WILDLIFE FRIENDLY



STAMPS, LOGOS, AND SEALS

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NO.	REVISION / ISSUE	DATE

PROJECT NAME
BOHN RD. OVER TRIBUTARY TO ELVER'S CREEK

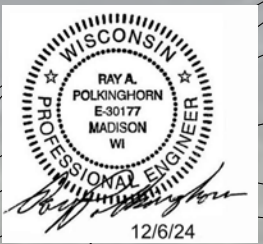
STRUCTURE REPLACEMENT

TOWN OF VERMONT

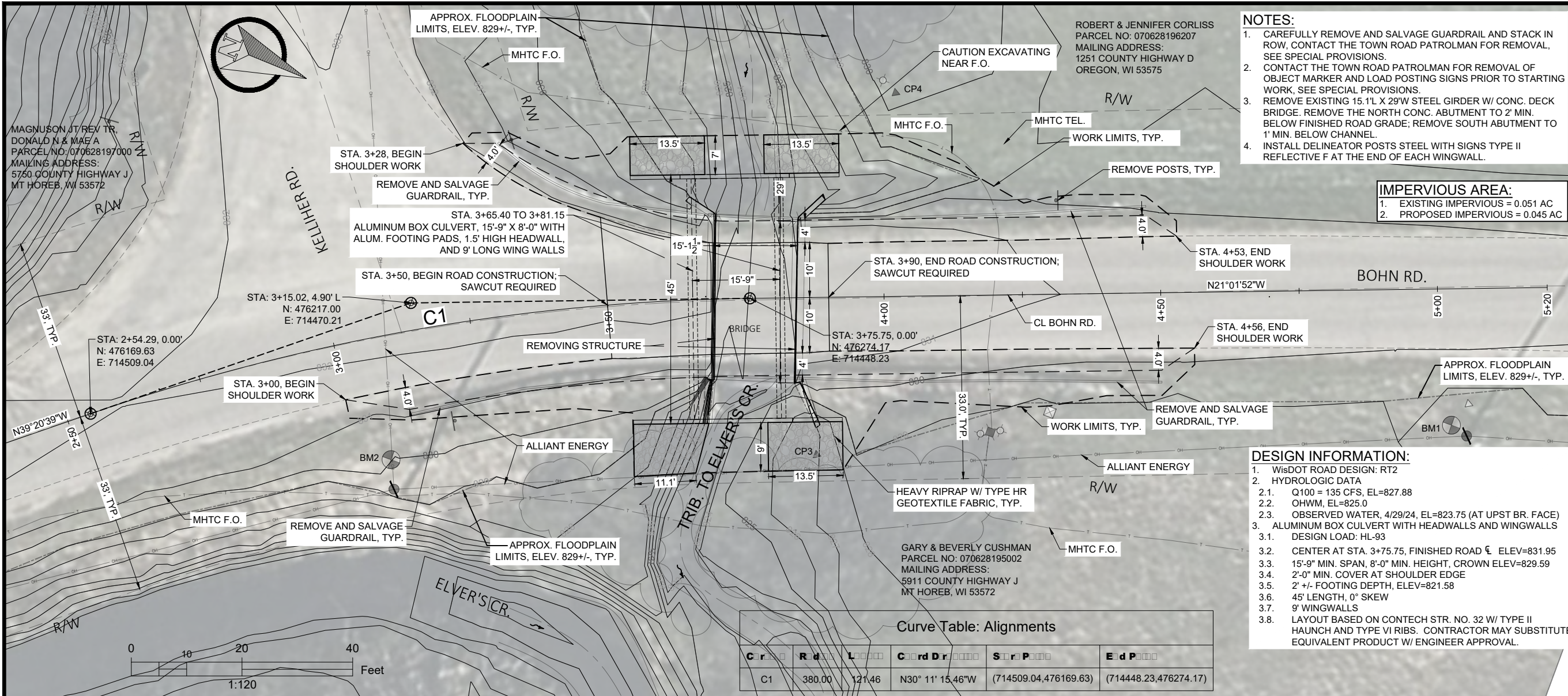
DRAWING TITLE
EROSION CONTROL PLAN

DATE 1/16/2025	ARCHIVE NO.
DESIGNER R. POLKINGHORN	DRAWING SHEET NO. C-03
DRAWN R. POLKINGHORN	
CHECKED	
PROJECT NO.	SHEET 4 OF 12

- NOTES**
1. CONSTRUCT AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH WISCONSIN DNR AND DANE COUNTY REQUIREMENTS.
 2. INSTALL EROSION CONTROL PRACTICES PRIOR TO INITIATING OTHER LAND DISTURBING ACTIVITIES.
 3. INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER EVERY RAINFALL EVENT EXCEEDING 0.5 INCHES WITHIN 24 HOURS. REPAIR TO EROSION CONTROL MEASURES SHALL OCCUR WITHIN 24 HOURS OF INSPECTION.
 4. EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL SITE IS STABILIZED. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED BY REGULATORY AGENTS OR OWNER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
 5. INSTALL TRACKING CONTROLS TO PREVENT SEDIMENT FROM BEING TRACKED ONTO ADJACENT ROADWAYS. SEDIMENT IN THE ROADWAY SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORK DAY.
 6. DIVERT CHANNELIZED RUNOFF FROM ADJACENT LAND AROUND DISTURBED AREAS.
 7. INSTALL PERIMETER CONTROL AROUND STOCKPILES AND STABILIZE STOCKPILES THAT WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
 8. TEMPORARILY STABILIZE DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS.
 9. PERMANENTLY STABILIZE ANY PORTION OF THE SITE WITHIN 7 DAYS OF REACHING FINAL GRADE.
 10. DE-WATERING SHALL CONFORM TO DNR TECHNICAL STANDARD 1061 AND MAY NOT INCREASE EROSION.
 11. REMOVE ACCUMULATED SEDIMENT FROM DITCH CHECKS AND STONE WEEPERS WHEN IT REACHES 1/2 OF THE DEVICE HEIGHT.
 12. NOTIFY THE DANE COUNTY WATER RESOURCES ENGINEERING DEPARTMENT WITHIN 10 DAYS OF INSTALLING ALL EROSION CONTROL PRACTICES AND UPON SITE STABILIZATION; JIM NEIDHART 608-516-2738.
 13. REMOVE ALL EROSION CONTROL MEASURES ONCE ALL DISTURBED AREAS ARE VEGETATED.
 14. TURF ESTABLISHMENT INCLUDES SOIL PREPARATION, NURSE CROP SEED, SEED, FERTILIZER, MULCH, AND EROSION MAT WHEN SHOWN.
 15. CONSTRUCT TEMPORARY COFFERDAMS OF EITHER TEMPORARY SANDBAGS OR TEMPORARILY PLACED EARTH FILL COVERED WITH POLYETHYLENE SHEETING AND ANCHORED ON EACH SIDE WITH CLEAR STONE. CONSTRUCT COFFERDAMS WITH UNIFORM TOP ELEVATION ABOVE TOP OF PIPE.



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- NOTES:**
- CAREFULLY REMOVE AND SALVAGE GUARDRAIL AND STACK IN ROW, CONTACT THE TOWN ROAD PATROLMAN FOR REMOVAL, SEE SPECIAL PROVISIONS.
 - CONTACT THE TOWN ROAD PATROLMAN FOR REMOVAL OF OBJECT MARKER AND LOAD POSTING SIGNS PRIOR TO STARTING WORK, SEE SPECIAL PROVISIONS.
 - REMOVE EXISTING 15.1' L X 29' W STEEL GIRDER W/ CONC. DECK BRIDGE. REMOVE THE NORTH CONC. ABUTMENT TO 2' MIN. BELOW FINISHED ROAD GRADE; REMOVE SOUTH ABUTMENT TO 1' MIN. BELOW CHANNEL.
 - INSTALL DELINEATOR POSTS STEEL WITH SIGNS TYPE II REFLECTIVE F AT THE END OF EACH WINGWALL.

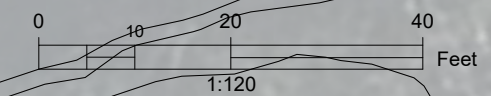
IMPERVIOUS AREA:

- EXISTING IMPERVIOUS = 0.051 AC
- PROPOSED IMPERVIOUS = 0.045 AC

- DESIGN INFORMATION:**
- WisDOT ROAD DESIGN: RT2
 - HYDROLOGIC DATA
 - Q100 = 135 CFS, EL=827.88
 - OHWM, EL=825.0
 - OBSERVED WATER, 4/29/24, EL=823.75 (AT UPST BR. FACE)
 - ALUMINUM BOX CULVERT WITH HEADWALLS AND WINGWALLS
 - DESIGN LOAD: HL-93
 - CENTER AT STA. 3+75.75, FINISHED ROAD CL ELEV=831.95
 - 15'-9" MIN. SPAN, 8'-0" MIN. HEIGHT, CROWN ELEV=829.59
 - 2'-0" MIN. COVER AT SHOULDER EDGE
 - 2' +/- FOOTING DEPTH, ELEV=821.58
 - 45' LENGTH, 0° SKEW
 - 9' WINGWALLS
 - LAYOUT BASED ON CONTECH STR. NO. 32 W/ TYPE II HAUNCH AND TYPE VI RIBS. CONTRACTOR MAY SUBSTITUTE EQUIVALENT PRODUCT W/ ENGINEER APPROVAL.

Curve Table: Alignments

Curve	Rad	Len	Card Dr	Str P	End P
C1	380.00	121.46	N30° 11' 15.46"W	(714509.04, 476169.63)	(714448.23, 476274.17)



STAMPS, LOGOS, AND SEALS

NO.	REVISION / ISSUE	DATE

PROJECT NAME

BOHN RD. OVER TRIBUTARY TO ELVER'S CREEK

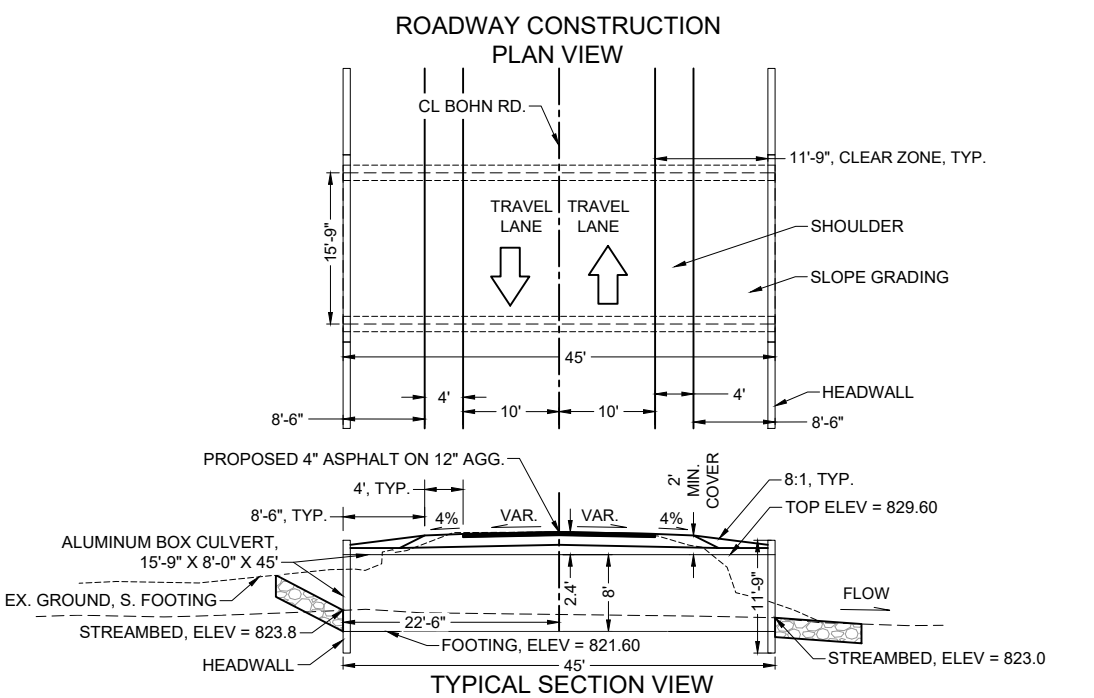
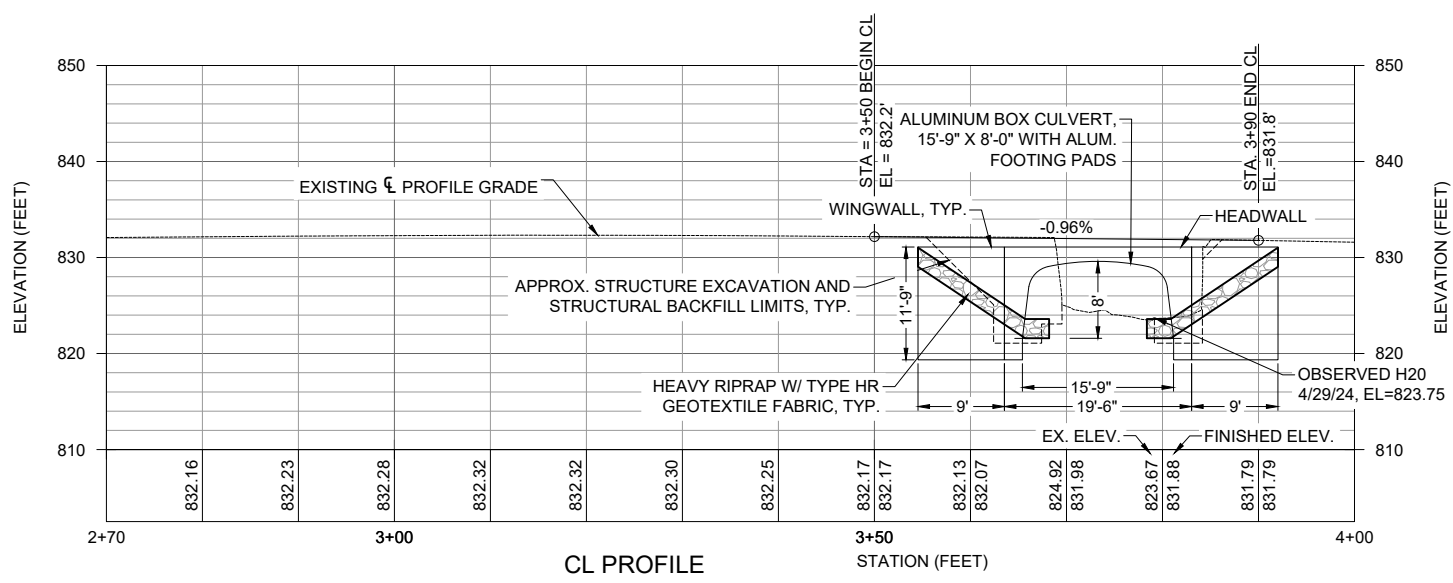
STRUCTURE REPLACEMENT

TOWN OF VERMONT

DRAWING TITLE

TYPICAL SECTION, PLAN AND PROFILE

DATE 1/14/2025	ARCHIVE NO.
DESIGNER R. POLKINGHORN	DRAWING SHEET NO. C-04
DRAWN R. POLKINGHORN	CHECKED
PROJECT NO.	SHEET 5 OF 12

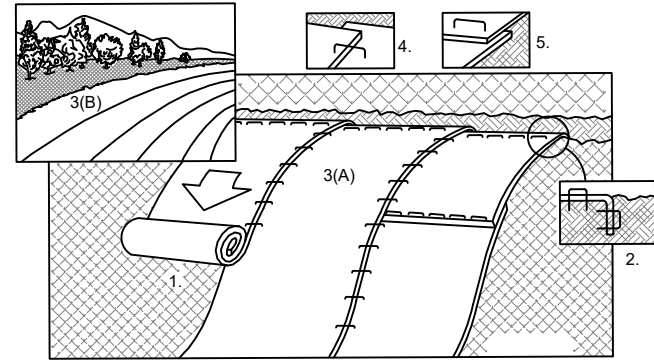


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NOTES

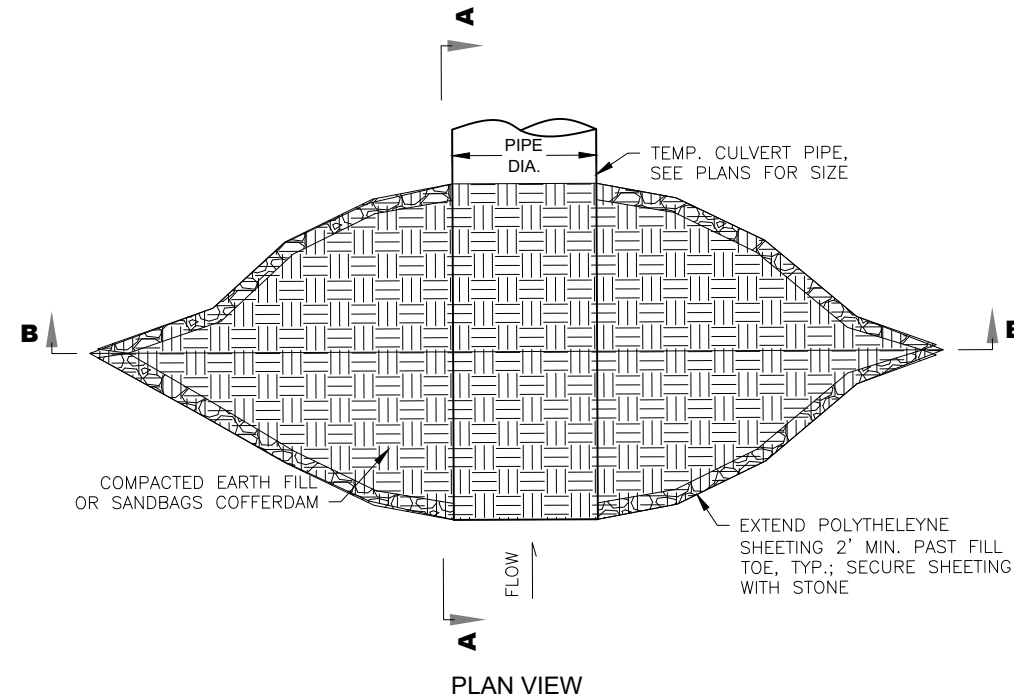
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

- 1- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCT, INCLUDE SEED.
- 2- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE ROLLED PRODUCT IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- 3- ROLL THE ROLLED PRODUCT (3A.) DOWN OR (3B.) HORIZONTALLY ACROSS THE SLOPE.
- 4- THE EDGES OF PARALLEL ROLLED PRODUCT SHALL BE STAPLED WITH 4" OVERLAP.
- 5- WHEN ROLLED PRODUCT MUST BE SPLICED DOWN THE SLOPE, PLACE ROLLED PRODUCT END OVER END (SHINGLE STYLE) WITH 6" OVERLAP. STAPLE APPROXIMATELY 12" APART.
- 6- ALL ROLLED PRODUCT MUST BE SECURELY FASTENED TO THE SLOPE BY PLACING STAPLES/ STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER. ALL STAPLES/S TAKES SHALL BE BIODEGRADABLE.
- 7- ROLLED EROSION CONTROL PRODUCT SHALL CONFORM TO THE TYPE SHOWN IN THE PLANS.

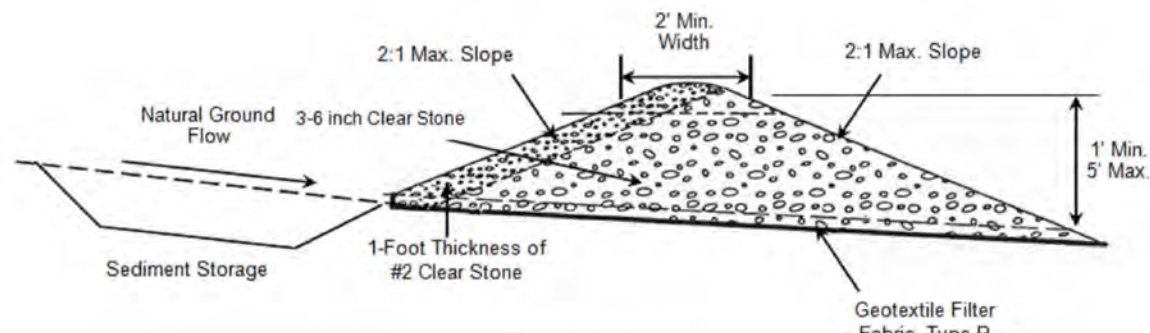


EROSION MAT DETAIL

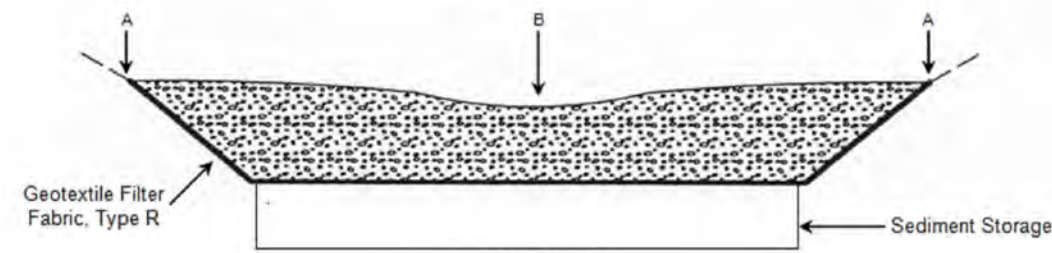
NTS



PLAN VIEW



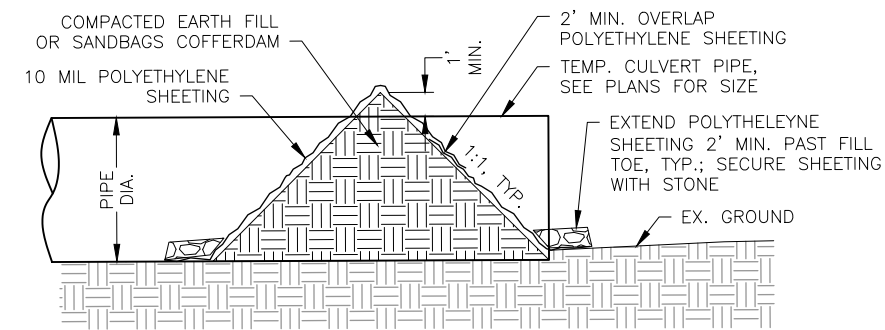
SECTION VIEW



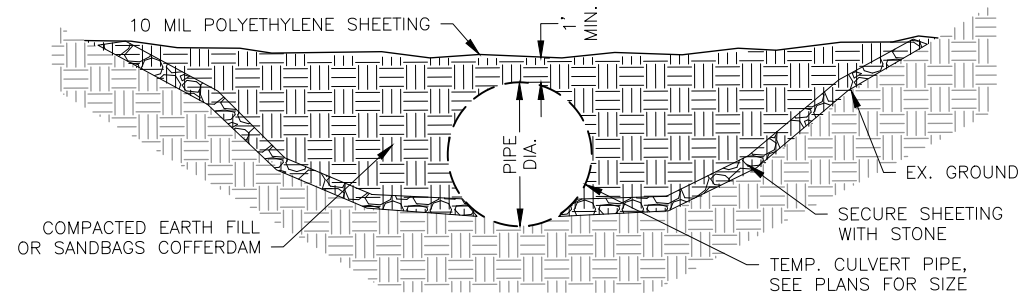
FRONT VIEW

TEMP. STONE CHECK DAM DETAIL

NTS



SECTION A-A



SECTION B-B

TEMPORARY PIPE DIVERSION DETAIL

N.T.S.

STAMPS, LOGOS, AND SEALS

1		
2		
3		
4		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

BOHN RD. OVER TRIBUTARY TO ELVER'S CREEK

STRUCTURE REPLACEMENT

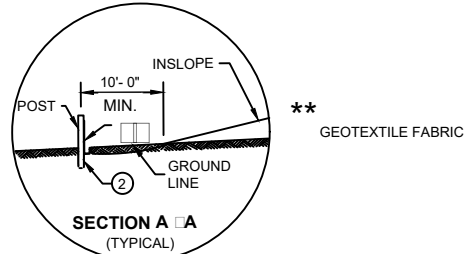
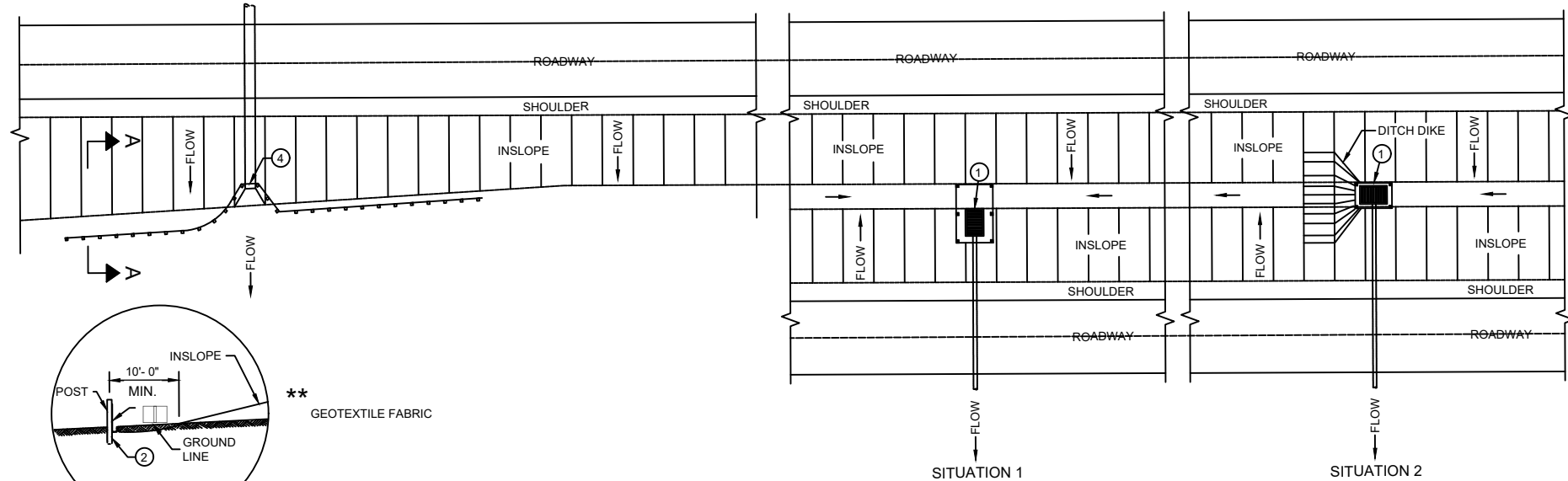
TOWN OF VERMONT

DRAWING TITLE

CONSTRUCTION DETAILS

DATE 1/14/2025	ARCHIVE NO.
DESIGNER R. POLKINGHORN	DRAWING SHEET NO. C-05
DRAWN R. POLKINGHORN	
CHECKED M. MURPHY	
PROJECT NO.	SHEET 6 OF 12

SDD 08E09 SILT FENCE



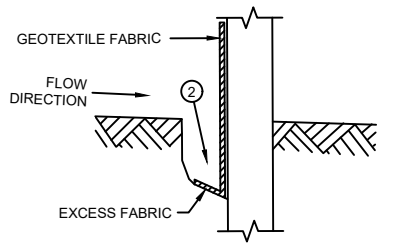
PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE

PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

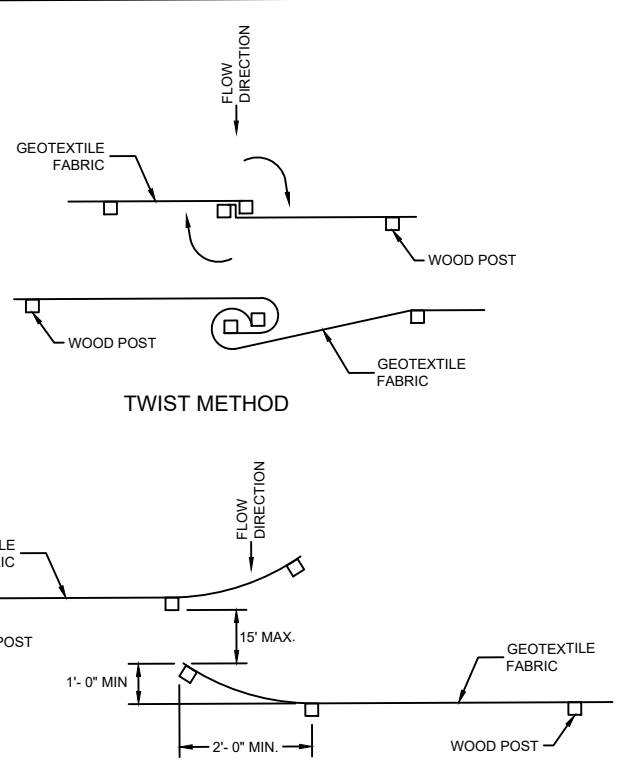
GENERAL NOTES

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

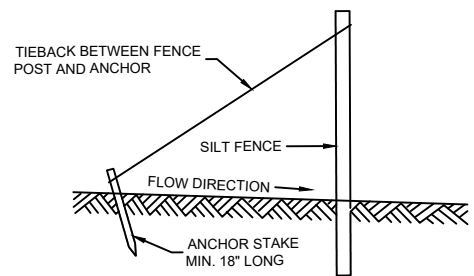
- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



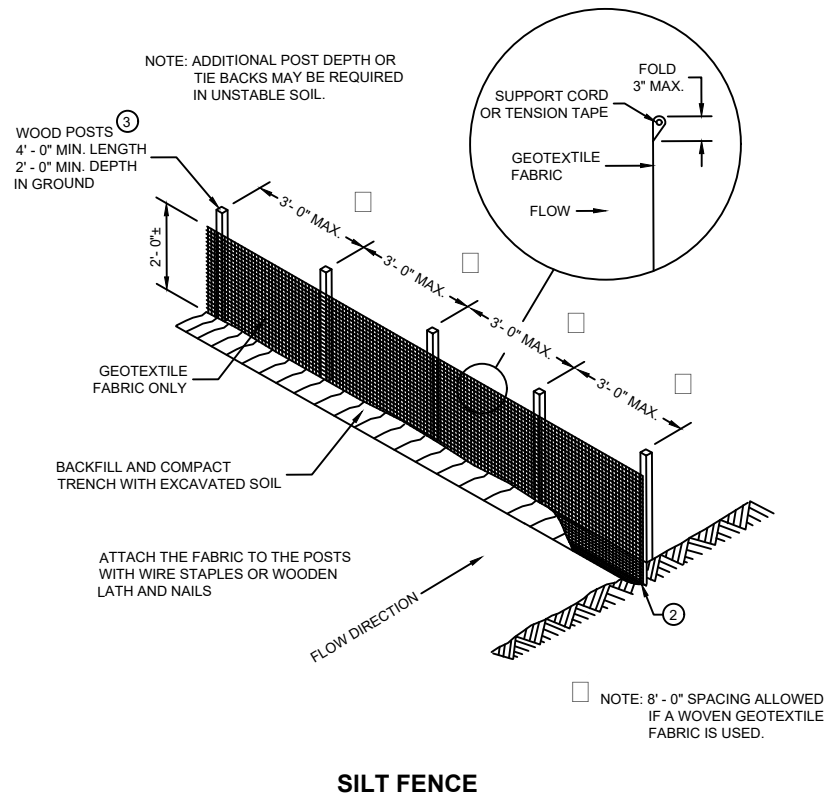
TRENCH DETAIL



JOINING TWO LENGTHS OF SILT FENCE



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4/29/05 DATE	/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	

STAMPS, LOGOS, AND SEALS

NO.	REVISION / ISSUE	DATE

PROJECT NAME
BOHN RD. OVER TRIBUTARY TO ELVER'S CREEK

STRUCTURE REPLACEMENT

TOWN OF VERMONT

DRAWING TITLE
CONSTRUCTION DETAILS

DATE 1/14/2025	ARCHIVE NO.
DESIGNER R. POLKINGHORN	DRAWING SHEET NO. C-06
DRAWN R. POLKINGHORN	
CHECKED M. MURPHY	
PROJECT NO.	SHEET 7 OF 12

1/14/25 16:36 CEDP - OWNER X:\PROJECTS\2326253_ST_VERMONT_TM_BOHN RD BR REPLACEMENT\900_CADD\501_PLANS\501.3_PR06-11-DETAILS.DWG;

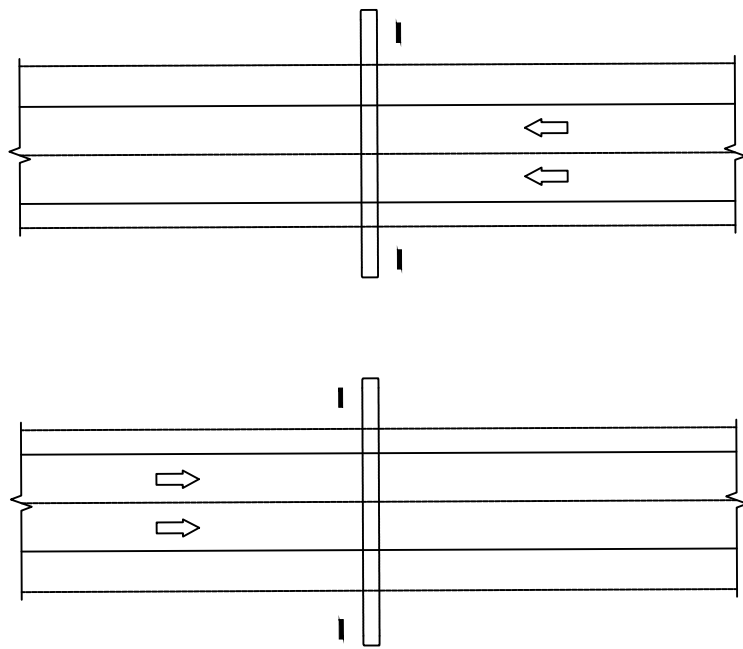
6

SDD
E

6

SDD
E

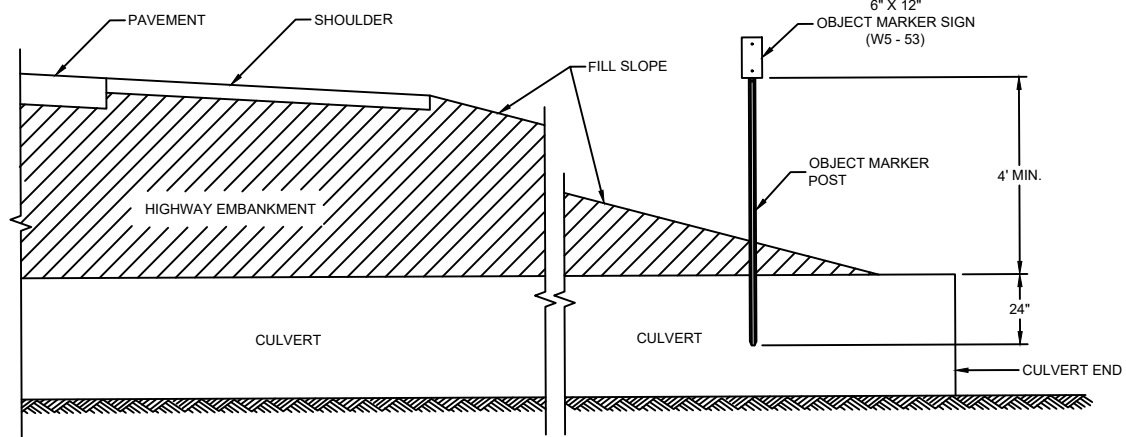
SDD 15A07 OBJECT MARKER FOR HAZARDOUS CULVERT



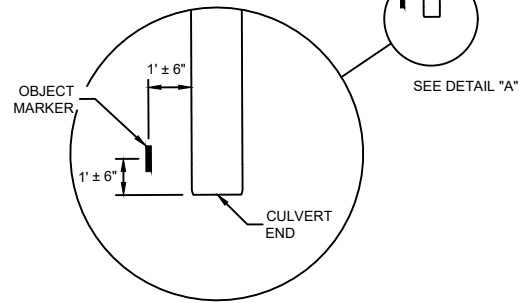
PLAN VIEW
DIVIDED HIGHWAY

PLAN VIEW
UNDIVIDED HIGHWAY

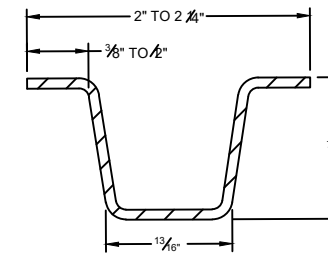
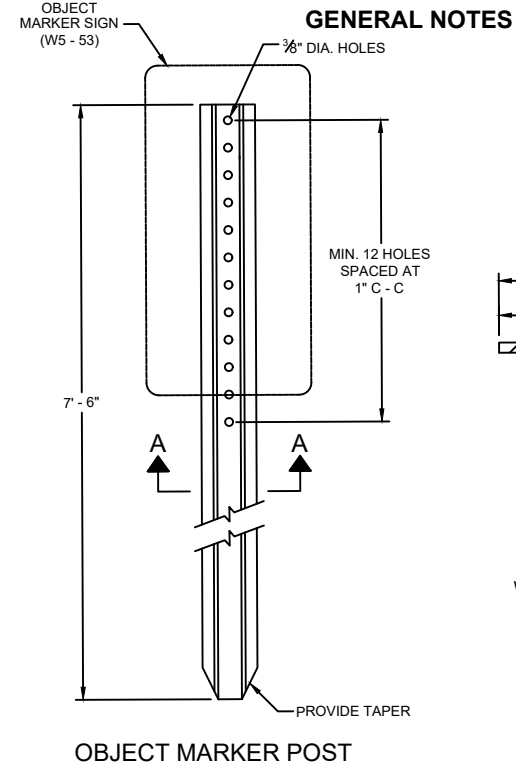
OBJECT MARKER LOCATION



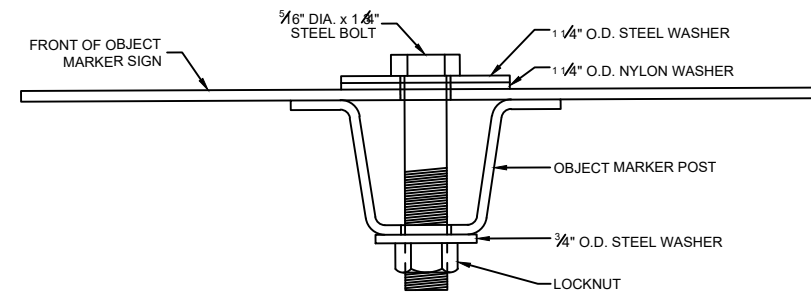
CROSS SECTION
OBJECT MARKER PLACEMENT



DETAIL A
(TYPICAL)



SECTION A - A
WEIGHT 1.12 LBS PER FT. \ 0.1 LB.



MOUNTING DETAIL FOR
OBJECT MARKER SIGN

OBJECT MARKER FOR HAZARDOUS CULVERT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Matthew Rauch
DATE STATE SIGNING AND MARKING
ENGINEER

STAMPS, LOGOS, AND SEALS

NO.	REVISION / ISSUE	DATE
1		
2		
3		
4		

PROJECT NAME
BOHN RD. OVER TRIBUTARY TO ELVER'S CREEK

STRUCTURE REPLACEMENT

TOWN OF VERMONT

DRAWING TITLE
CONSTRUCTION DETAILS

DATE 1/14/2025	ARCHIVE NO.
DESIGNER R. POLKINGHORN	DRAWING SHEET NO. C-07
DRAWN R. POLKINGHORN	
CHECKED M. MURPHY	
PROJECT NO.	SHEET 8 OF 12

SDD 15C02 - 09a BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STAMPS, LOGOS, AND SEALS

NO.	REVISION / ISSUE	DATE

PROJECT NAME
BOHN RD. OVER TRIBUTARY TO ELVER'S CREEK

STRUCTURE REPLACEMENT

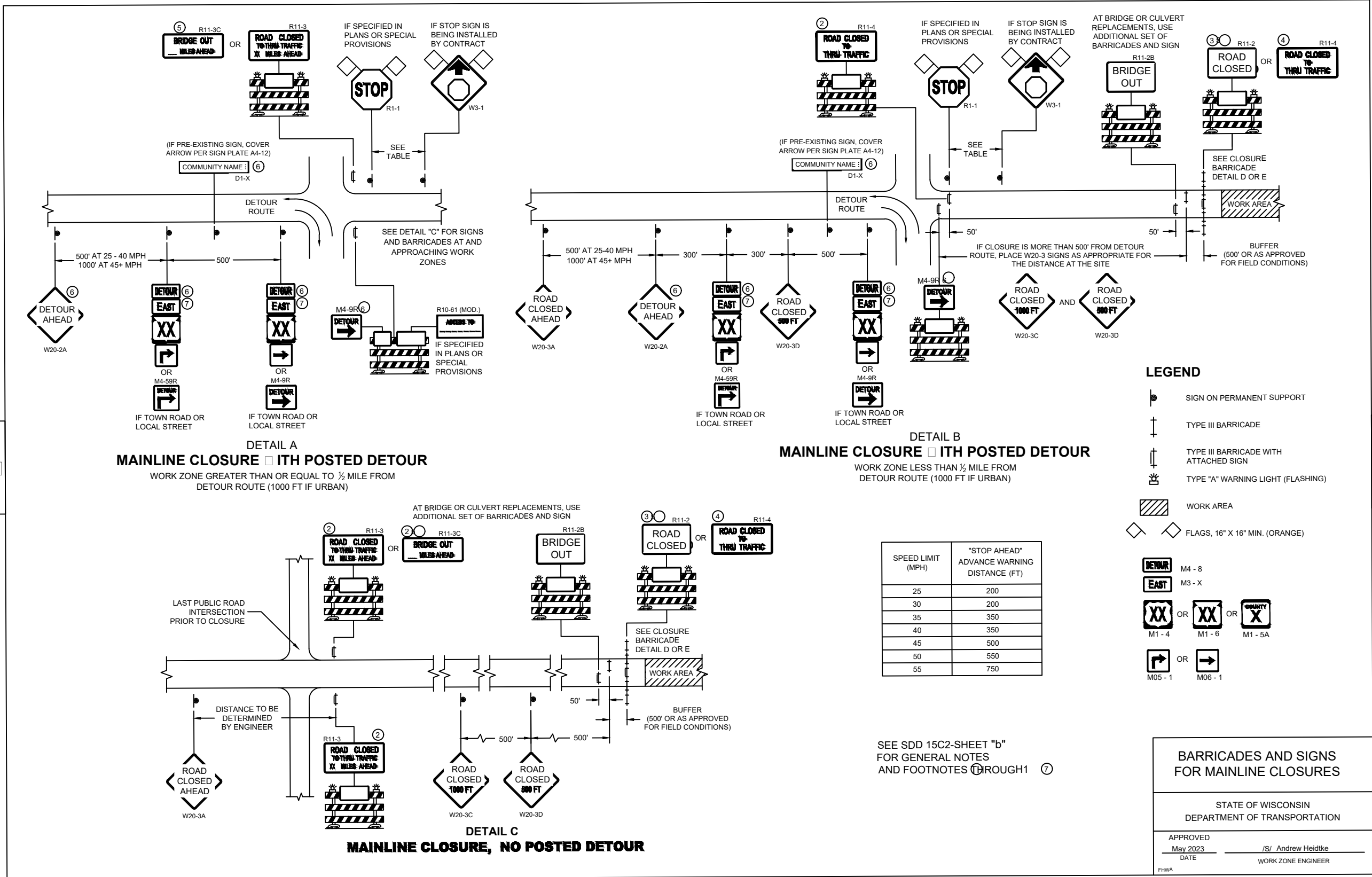
TOWN OF VERMONT

DRAWING TITLE
CONSTRUCTION DETAILS

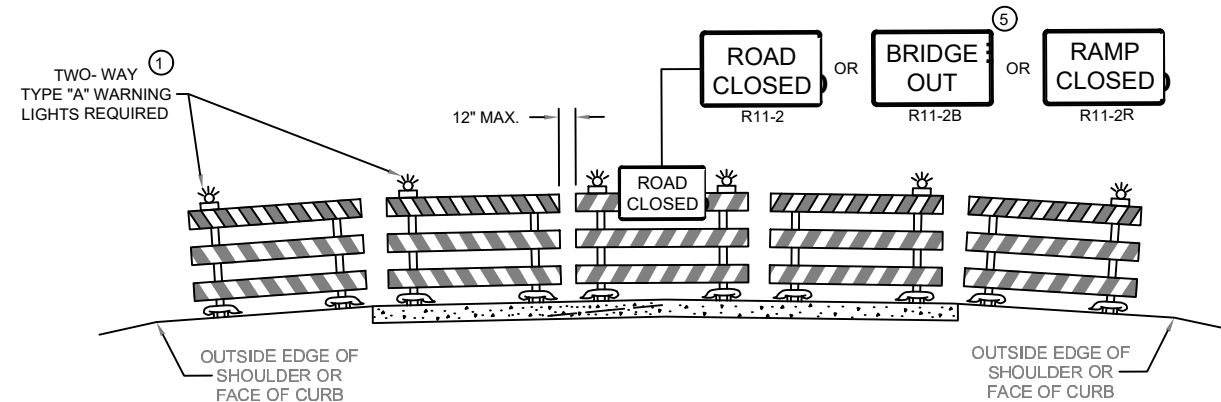
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DESIGNER R. POLKINGHORN	DRAWING SHEET NO. C-08
DRAWN R. POLKINGHORN	
CHECKED M. MURPHY	
PROJECT NO.	SHEET 9 OF 12

SDD C

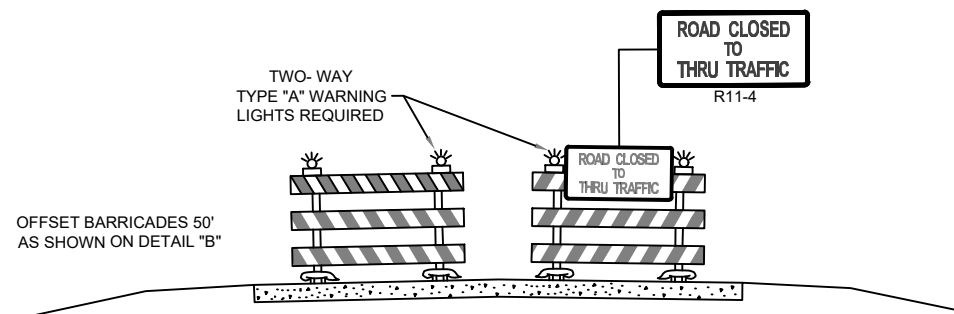
SDD C



SDD 15C02 - 09b BARRICADES AND SIGNS FOR VARIOUS CLOSURES



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60" X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

- ① TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- ② THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- ③ FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- ④ FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- ⑤ FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- ⑥ INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- ⑦ "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

STAMPS, LOGOS, AND SEALS

△		
△		
△		
△		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**BOHN RD. OVER
 TRIBUTARY TO
 ELVER'S CREEK**

**STRUCTURE
 REPLACEMENT**

TOWN OF VERMONT

DRAWING TITLE

**CONSTRUCTION
 DETAILS**

**BARRICADES AND SIGNS
 FOR
 VARIOUS CLOSURES**

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

APPROVED
 May 2023 /S/ Andrew Heidtke
 DATE WORK ZONE ENGINEER

FHWA

DATE 1/14/2025	ARCHIVE NO.
DESIGNER R. POLKINGHORN	DRAWING SHEET NO. C-09
DRAWN R. POLKINGHORN	
CHECKED M. MURPHY	
PROJECT NO.	SHEET 10 OF 12

STAMPS, LOGOS, AND SEALS

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NO.	REVISION / ISSUE	DATE

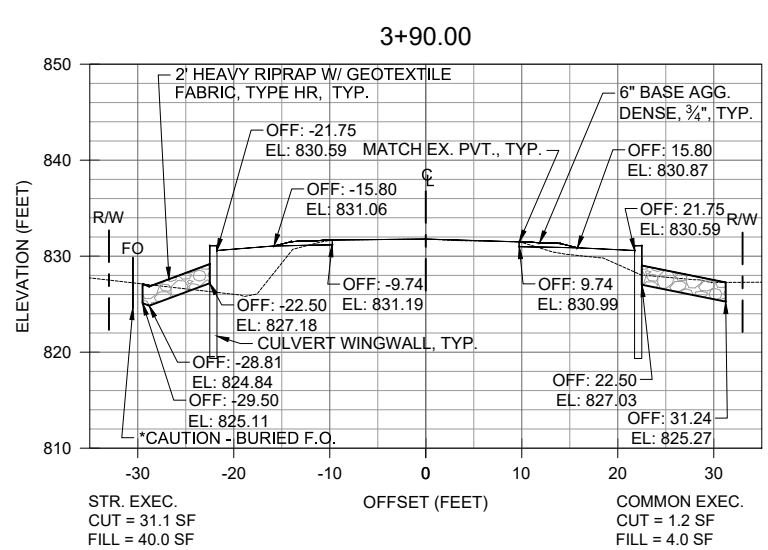
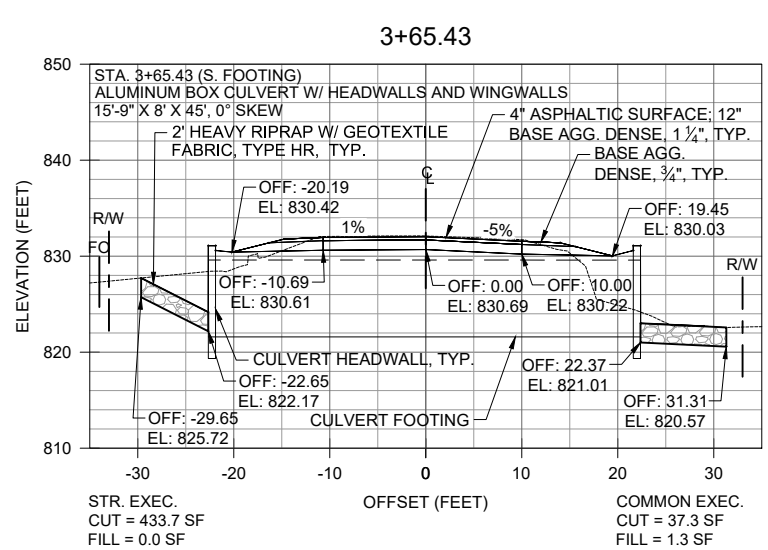
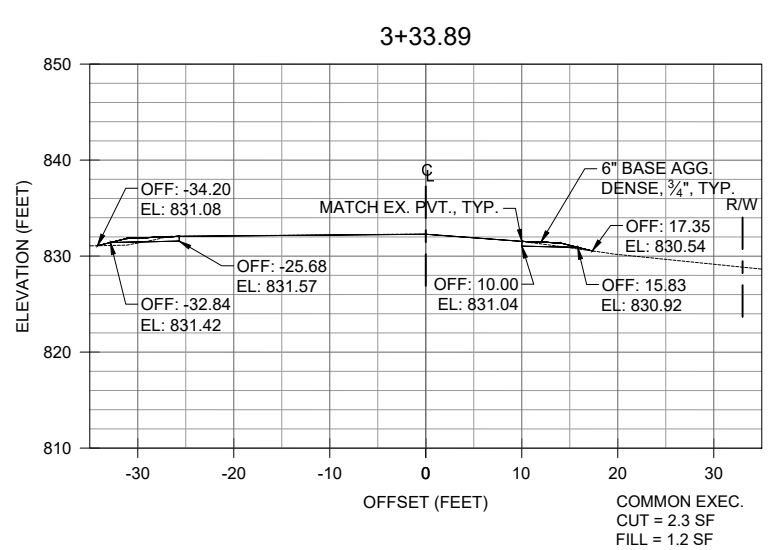
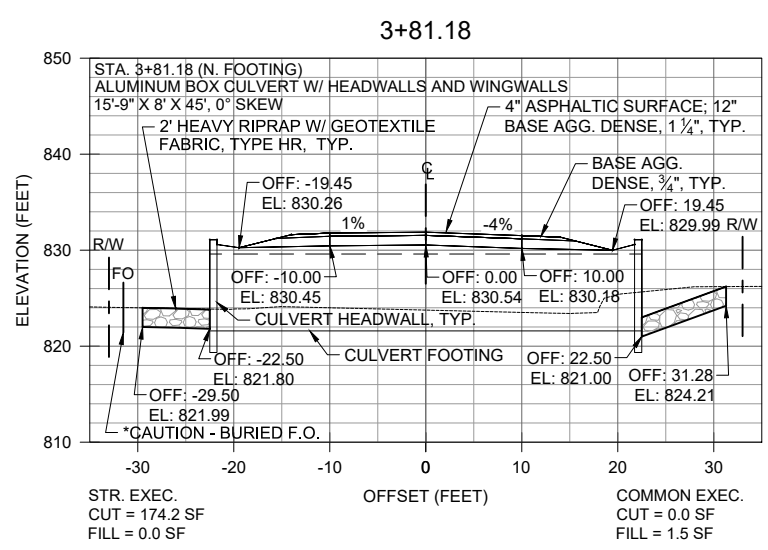
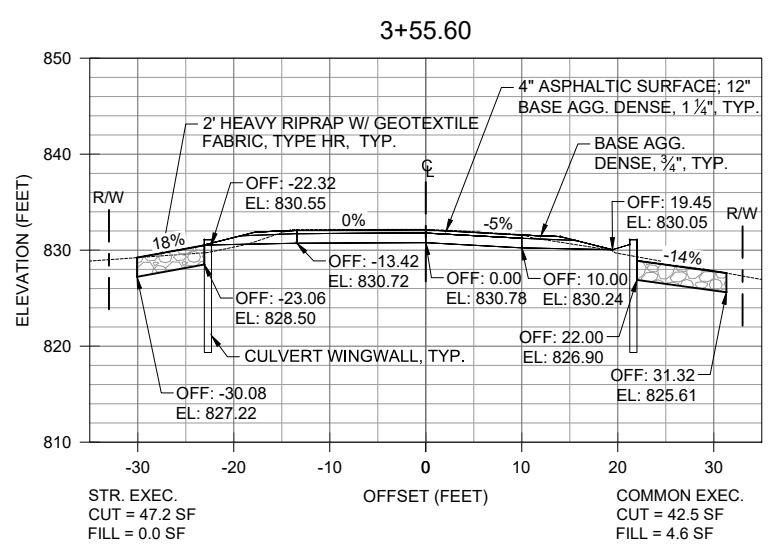
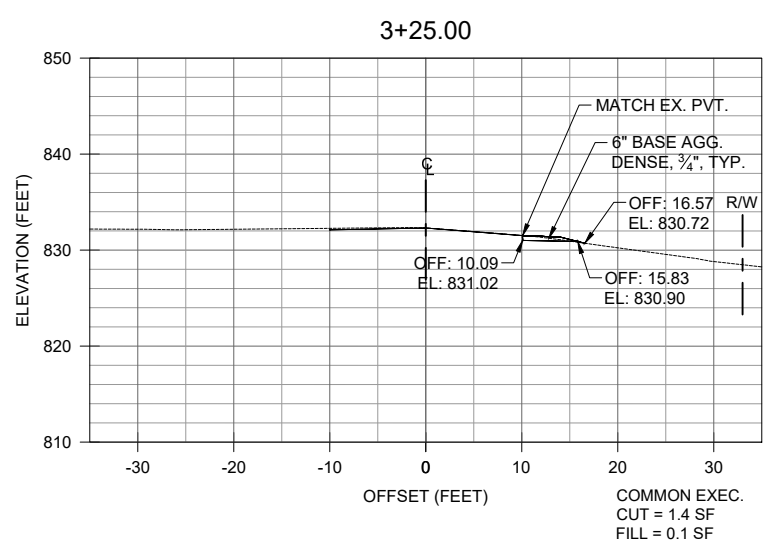
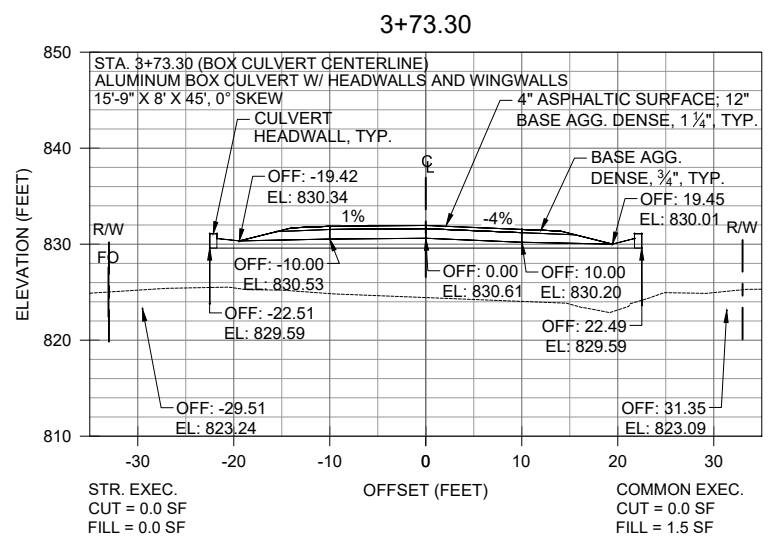
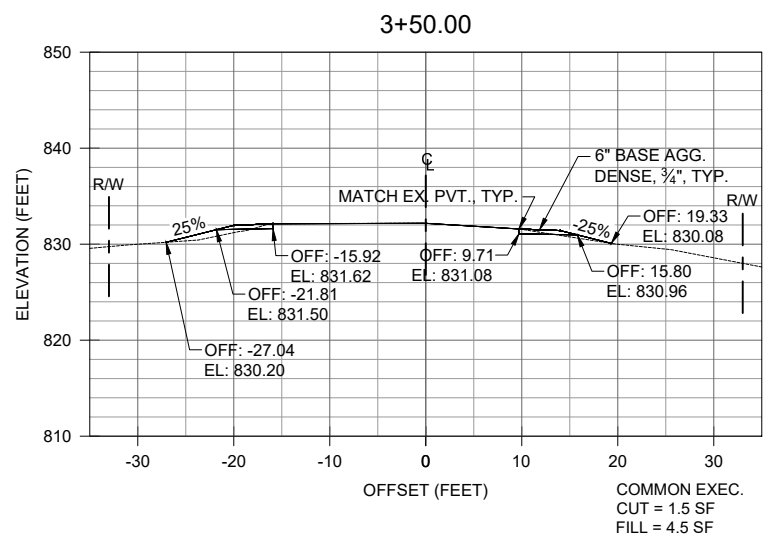
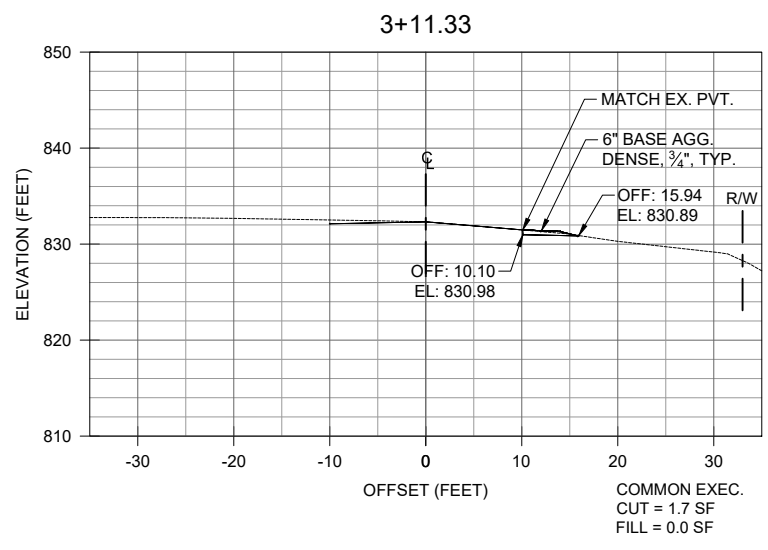
PROJECT NAME
BOHN RD. OVER TRIBUTARY TO ELVER'S CREEK

STRUCTURE REPLACEMENT

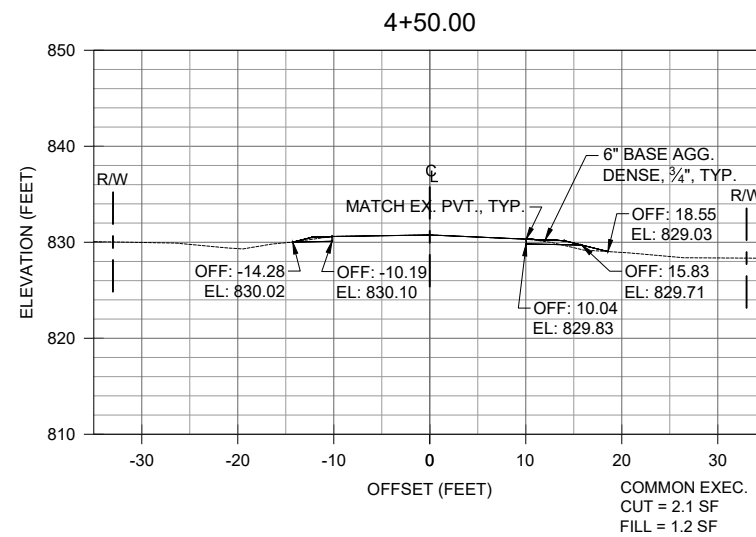
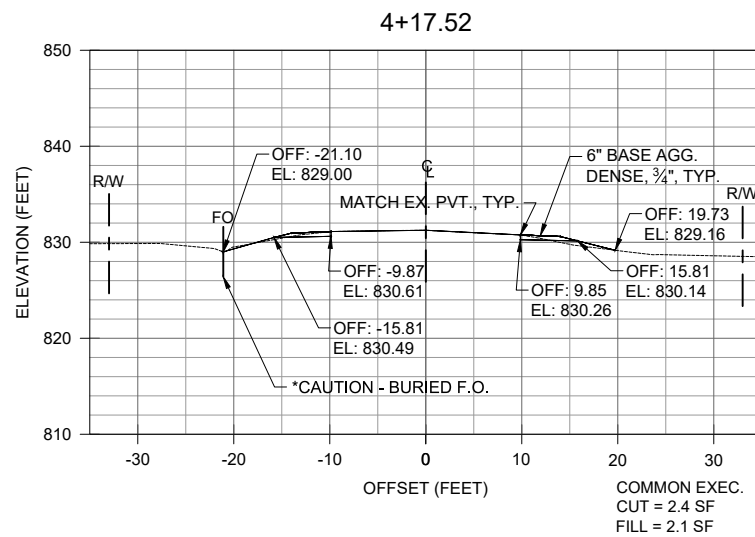
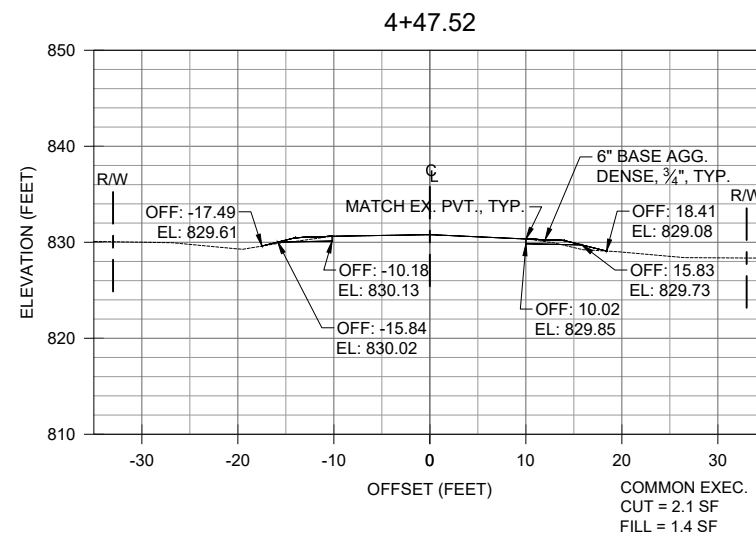
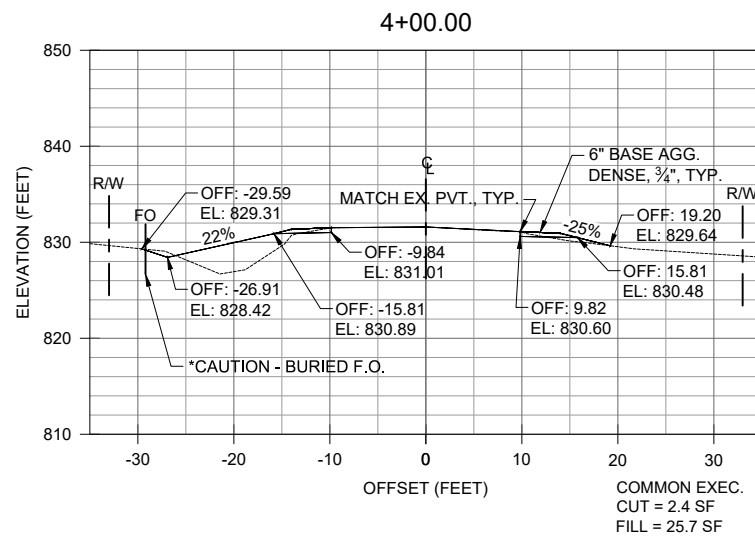
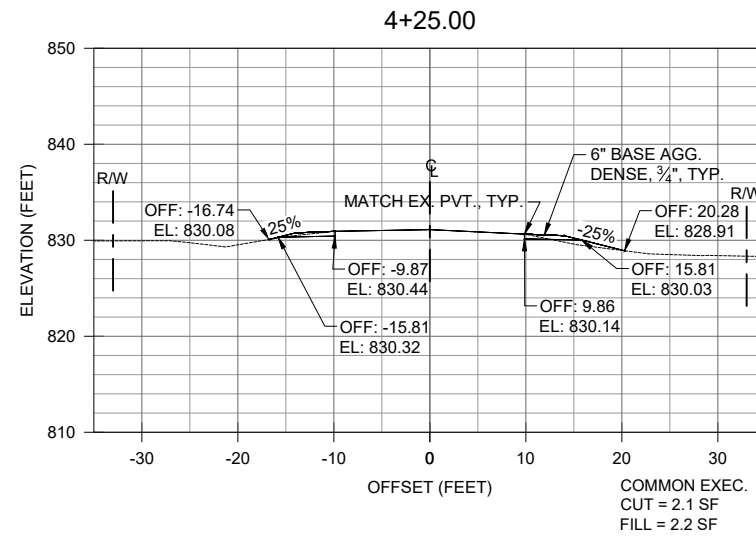
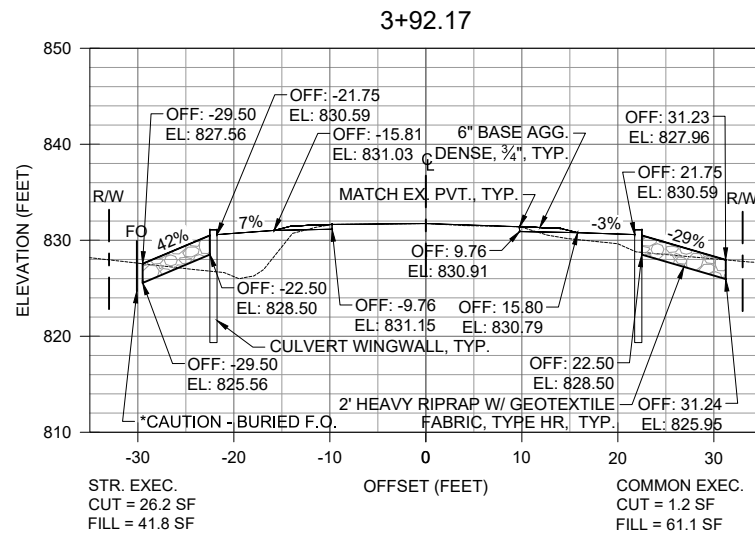
TOWN OF VERMONT

DRAWING TITLE
CROSS SECTIONS

DATE 1/14/2025	ARCHIVE NO.
DESIGNER R. POLKINGHORN	DRAWING SHEET NO. C-10
DRAWN R. POLKINGHORN	
CHECKED	
PROJECT NO.	SHEET 11 OF 12



1/14/25 17:37 CEDP - OWNER X:\PROJECTS\230523_ST_VERMONT_TN_BOHN RD BR REPLACEMENT\900_CADD\501_PLANS\901.3_PRI11-12.XSEC.DWG.



APPROXIMATE EARTHWORK											
APPROXIMATE COMMON EARTHWORK						APPROXIMATE STRUCTURE EXCAVATION					
STA.	DIST. (FT)	CUT (SF)	ACCU. CUT (CY)	FILL (SF)	EXPANDED FILL (SF)	Expansion Factor 1.2			Expansion Factor 1.2		
						ACCU. CUT (CY)	FILL (SF)	EXPANDED FILL (SF)	ACCU. FILL (CY)	FILL (SF)	EXPANDED FILL (SF)
3+00.00		0		0	0						Begin E. Shoulder
3+11.30	11.3	1.7	0.36	0	0						
3+25.00	13.7	1.4	1.15	0.1	0.12	0.03					
3+33.90	8.9	2.3	1.76	1.2	1.44	0.29					Begin W. Shoulder
3+50.00	16.1	1.5	2.89	4.5	5.4	2.33					Begin Asphalt
3+55.50	5.5	1.5	3.2	4.5	5.4	3.43	0	0	0	0	
3+55.60	0.1	42.5	3.28	4.6	5.52	3.45	47.2	0.09	0	0	Begin Wingwall
3+62.30	6.7	37.3	13.18	1.3	1.56	4.33	228	34.24	0	0	
3+62.40	0.1	37.3	13.32	1.3	1.56	4.34	433.7	35.47	0	0	S. Footing
3+65.40	3	37.3	17.46	1.3	1.56	4.51	433.7	83.66	0	0	S. Footing
3+65.50	0.1	37.3	17.6	1.3	1.56	4.52	433.7	85.27	158	189.6	S. Footing
3+67.40	1.9	37.3	20.22	1.3	1.56	4.63	433.7	115.79	158	189.6	S. Footing
3+67.50	0.1	37.3	20.36	1.3	1.56	4.64	318	117.18	90	108	S. Footing
3+68.20	0.7	37.3	21.33	1.3	1.56	4.68	318	125.42	90	108	S. Riprap End
3+69.50	1.3	37.3	23.13	1.3	1.56	4.76	318	140.73	90	108	Ex. S. Abutment
3+69.60	0.1	0	23.2	1.3	1.56	4.77	0	141.32	0	0	22.44
3+78.60	9	0	23.2	1.5	1.8	5.33	0	141.32	0	0	22.44
3+78.70	0.1	0	23.2	1.5	1.8	5.34	31.5	141.38	0	0	22.44
3+79.20	0.5	0	23.2	1.5	1.8	5.37	31.5	141.96	0	0	22.44
3+79.30	0.1	0	23.2	1.5	1.8	5.38	174.2	142.34	100	120	N. Footing
3+81.10	1.8	0	23.2	1.5	1.8	5.5	174.2	153.95	100	120	N. Footing
3+81.20	0.1	0	23.2	1.5	1.8	5.51	174.2	154.6	0	0	30.88
3+84.00	2.8	0	23.2	1.5	1.8	5.7	174.2	172.67	0	0	30.88
3+84.10	0.1	0	23.2	1.5	1.8	5.71	122	173.22	0	0	30.88
3+86.20	2.1	44.5	24.93	1.5	1.8	5.85	31.4	179.19	0	0	30.88
3+90.00	3.8	44.5	31.19	4	4.8	6.31	31.1	183.59	40	48	34.26
3+90.10	0.1	1.2	31.27	4	4.8	6.33	31.1	183.71	40	48	34.44
3+92.20	2.1	1.2	31.36	4	4.8	6.7	31.1	186.13	40	48	38.17
4+00.00	7.8	2.4	31.88	25.7	30.84	11.85	0	190.62	0	0	45.1
4+17.50	17.5	2.4	33.44	2.1	2.52	22.66		190.62			45.1
4+25.00	7.5	2.1	34.07	2.2	2.64	23.38		190.62			45.1
4+47.50	22.5	2.1	35.82	1.4	1.68	25.18		190.62			45.1
4+50.00	2.5	2.1	36.01	1.2	1.44	25.32		190.62			45.1

APPROXIMATE STRUCTURE EXCAVATION QUANTITIES SHOWN FOR INFORMATION ONLY IN EVALUATING THE TOTAL AMOUNT OF EARTHWORK. STRUCTURE EXCAVATION IS INCIDENTAL TO THE ITEM SPV.0060, ALUMINUM BOX CULVERT.

EARTHWORK SUMMARY			
DESCRIPTION	CUT (CY)	EXPANDED FILL (CY)	TOTAL (CY)
COMMON EXCAVATION	36	25	61
STR. EXCAVATION	191	45	236
TEMP. PIPE EXC. - INSTALL	3	19	22
TEMP. PIPE EXC. - REMOVAL	19	0	19
SUBTOTAL	250	90	340
BORROW/WASTE		-160	

STRUCTURE EXCAVATION AND TEMP. PIPE EXCAVATION WILL BE INCIDENTAL TO THE ITEM SPV.0060, ALUMINUM BOX CULVERT.

STAMPS, LOGOS, AND SEALS

NO.	REVISION / ISSUE	DATE
1		
2		
3		

PROJECT NAME
BOHN RD. OVER TRIBUTARY TO ELVER'S CREEK

STRUCTURE REPLACEMENT

TOWN OF VERMONT

DRAWING TITLE
CROSS SECTIONS

DATE 1/14/2025	ARCHIVE NO.
DESIGNER R. POLKINGHORN	DRAWING SHEET NO. C-11
DRAWN R. POLKINGHORN	
CHECKED	
PROJECT NO.	SHEET 12 OF 12