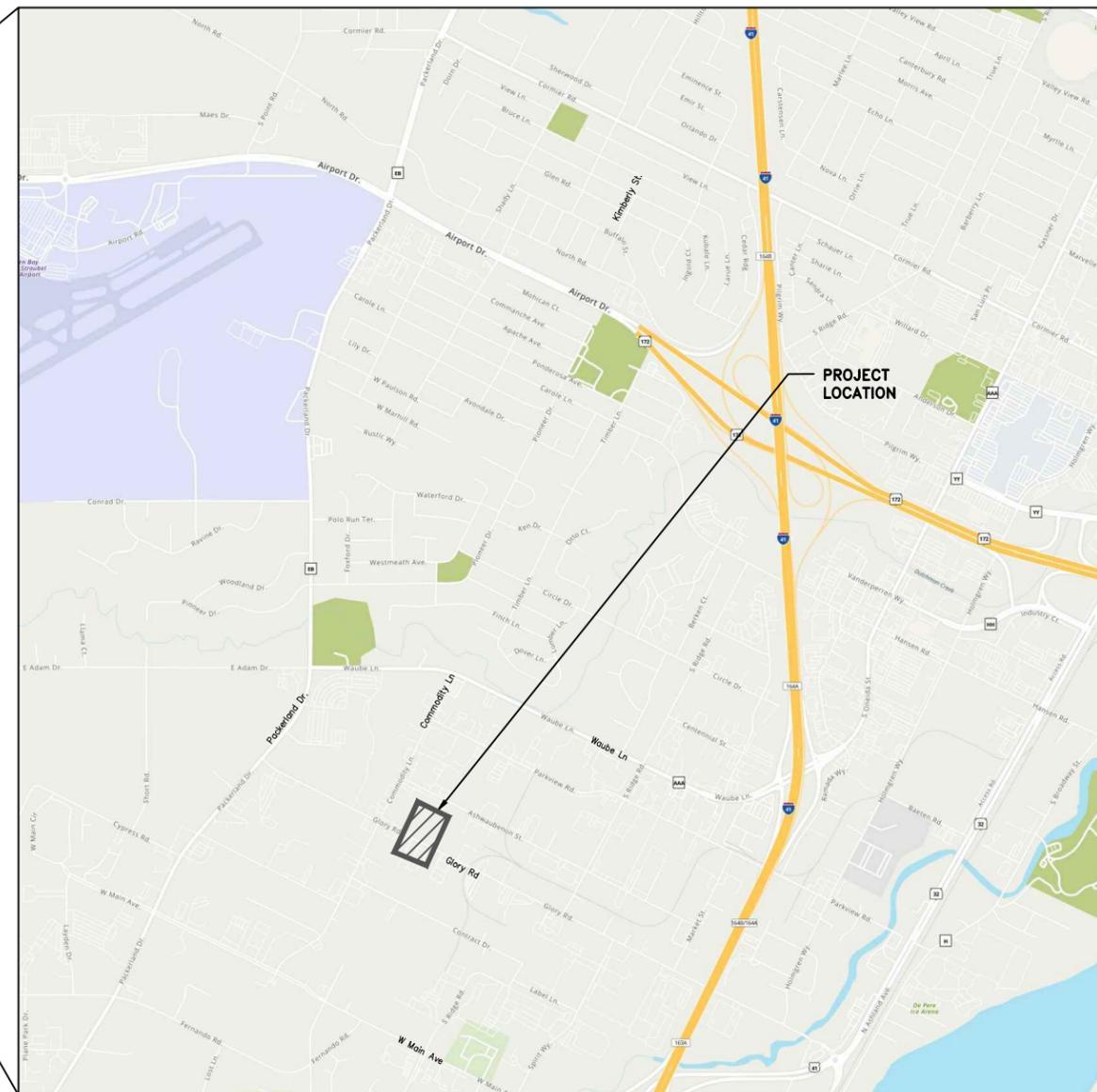
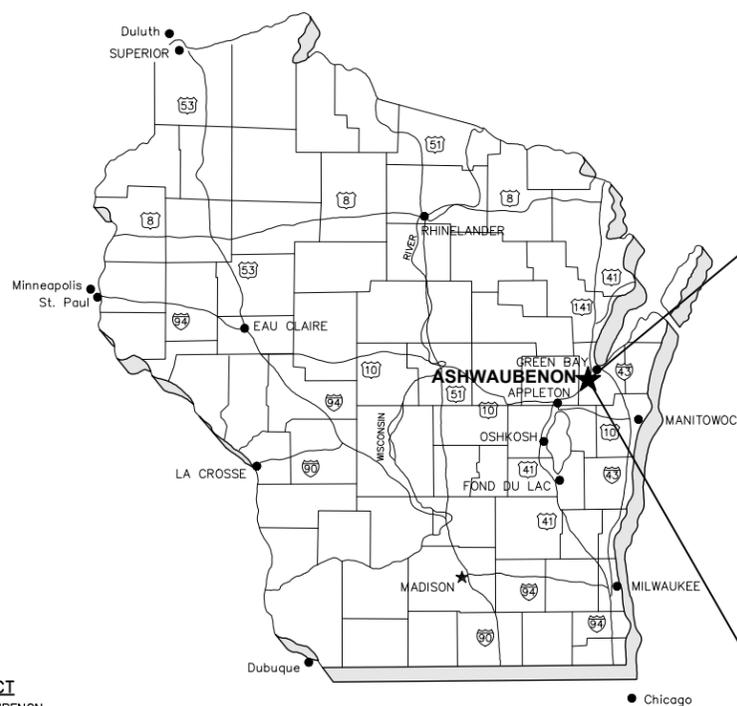


GLORY ROAD CULVERT REPLACEMENT

VILLAGE OF ASHWAUBENON

BROWN COUNTY, WISCONSIN
 CONTRACT # A0017 09-24-00770



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SHEET INDEX

- 01 - ABBREVIATIONS SYMBOLS NOTES
- 02 - SURVEY CONTROL
- 03 - EXISTING CULVERT
- 04 - PROPOED CULVERT
- 05 - MISCELLANEOUS DETAILS
- 06 - EROSION CONTROL DETAILS

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STANDARD ABBREVIATIONS

AC	AGGREGATE	LT	LEFT
AGH	AHEAD	LVC	LENGTH OF VERTICAL CURVE
ASPH	ASPHALT PAVEMENT	MAINT	MAINTENANCE
AVG	AVERAGE	MAT'L	MATERIAL
B-B	BACK TO BACK	MAX	MAXIMUM
BEG	BEGIN	MIN	MINIMUM
BIT	BITUMINOUS	MH	MANHOLE
BK	BACK	MP	MILE POST
B/L	BASE LINE	NB	NORTHBOUND
BLDG	BUILDING	NO	NUMBER
BM	BENCH MARK	NOR	NORMAL
BOC	BACK OF CURB	OD	OUTSIDE DIAMETER
BRG	BEARING	OBLIT	OBLITERATE
C-C	CENTER TO CENTER	PAV'T	PAVEMENT
CY	CUBIC YARD	PC	POINT OF CURVATURE
C&G	CURB AND GUTTER	PCC	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVATURE
CB	CATCH BASIN	PE	PRIVATE ENTRANCE
CE	COMMERCIAL ENTRANCE	PEDESTAL	PEDESTAL
CHD	CHORD	PGL	PROFILE GRADE LINE
C/L	CENTER LINE	PI	POINT OF INTERSECTION
CL	CLASS (FOR CONC PIPE)	P/L	PROPERTY LINE
CMP	CORRUGATED METAL PIPE	PLE	PERMANENT LIMITED EASEMENT
CO	CLEAN OUT	PP	POWER POLE
CONC	CONCRETE	PRC	POINT OF REVERSE CURVATURE
CORR	CORRUGATED	PROP	PROPOSED
CP	CONTROL POINT	PSD	PASSING SIGHT DISTANCE
CR	CRUSHED	PSI	POUNDS PER SQUARE INCH
CS	CURB STOP	PT	POINT OF TANGENCY
CSW	CONCRETE SIDEWALK	PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE
CTH	COUNTY TRUNK HIGHWAY	PVI	POINT OF VERTICAL INTERSECTION
CULV	CULVERT	PVT	POINT OF VERTICAL TANGENCY
D	DEPTH OR DELTA	R	RADIUS
DI	DUCTILE IRON	RCP	REINFORCED CONCRETE PIPE
DIA	DIAMETER	RD	ROAD
DIS	DISCHARGE	REBAR	REINFORCEMENT ROD
EA	EACH	REM	REMOVE
EB	EASTBOUND	RECON	RECONSTRUCT
EBS	EXCAVATION BELOW SUBGRADE	REQ'D	REQUIRED
EG	EDGE OF GRAVEL	R/L	REFERENCE LINE
ELEV	ELEVATION	RP	RADIUS POINT
ELEC	ELECTRIC	RR	RAILROAD
EMB	EMBANKMENT	RT	RIGHT
EMAT	EROSION MAT	R/W	RIGHT-OF-WAY
ENT	ENTRANCE	SB	SOUTHBOUND
EOR	END OF RADIUS	SE	SUPERELEVATION
EP	EDGE OF PAVEMENT	SF	SQUARE FEET
EXC	EXCAVATION	SI	SLOPE INTERCEPT
EX	EXISTING	SIH	STATE TRUNK HIGHWAY
EW	ENDWALL	SY	SQUARE YARD
F-F	FACE TO FACE	SALV	SALVAGED
FDN	FOUNDATION	SAN	SANITARY
FE	FIELD ENTRANCE	SEC	SECTION
FERT	FERTILIZER	SHLDR	SHOULDER
FG	FINISHED GRADE	S/L	SURVEY LINE
F/L	FLOW LINE	SQ	SQUARE
FT	FOOT	STA	STATION
FTG	FOOTING	STD	STANDARD
GRAV	GRAVEL	STO	STORM
GN	GRID NORTH	SW	SIDEWALK
GV	GAS VALVE	TC	TOP OF CURB
HDPE	HIGH DENSITY POLYETHYLENE	TEL	TELEPHONE
HE	HIGHWAY EASEMENT	TEMP	TEMPORARY
HMA	HOT MIX ASPHALT	TLE	TEMPORARY LIMITED EASEMENT
HP	HIGH POINT	TV	TELEVISION
HT	HEIGHT	TYP	TYPICAL
HYD	HYDRANT	UG	UNDERGROUND
ID	INSIDE DIAMETER	USH	U.S. HIGHWAY
IN	INCH	VAR	VARIES
INL	INLET	VC	VERTICAL CURVE
INV	INVERT	VERT	VERTICAL
IP	IRON PIPE	WB	WESTBOUND
JCT	JUNCTION	WM	WATER MAIN
LB	POUND	WV	WATER VALVE
LF	LINEAR FOOT		
LP	LIGHT POLE		

GENERAL NOTES

1. THE UTILITIES SHOWN IN PLAN AND PROFILE ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING ANY PRIVATE UTILITIES, FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITIES SHALL BE NOTIFIED 72 HRS. PRIOR TO EXCAVATION.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PROPOSED SITE GRADES BY FIELD CHECKING TWO (2) BENCHMARKS AND A MINIMUM OF ONE (1) SITE FEATURE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY MCMAHON OF ANY VERTICAL DISCREPANCY.
3. EXISTING STREET RIGHT-OF-WAY AND INTERSECTING PROPERTY LINES ARE ESTABLISHED FROM FIELD LOCATED SURVEY MONUMENTATION, PREVIOUS SURVEYS, PLATS AND CURRENT PROPERTY DEEDS.
4. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT PRIOR APPROVAL FROM THE OWNER.
5. A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MATCHES EXISTING ASPHALTIC CONCRETE SURFACE.
6. ALL CURB RADII SHOWN ON THE PLAN SHEETS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
7. DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

STANDARD SYMBOLS (PLAN VIEW ONLY)

■	2" IRON PIPE FOUND	—T—	TELEPHONE CABLE - BURIED
✕	1 1/4" REBAR FOUND	—E—	ELECTRIC CABLE - BURIED
✕	1 1/4" x 30" IRON REBAR WEIGHING 4.30 LB/LF SET	—OHU—	UTILITIES - OVERHEAD
●	1" (1.315 OD) IRON PIPE FOUND	—FO—	FIBER OPTIC CABLE - BURIED
⊙	1" IRON PIPE SET	—G—	GAS MAIN
✕	3/4" IRON REBAR FOUND	—TV—	CABLE TELEVISION - BURIED
⊙	3/4" IRON PIPE FOUND	—D—	DITCH LINE
⊙	3/4" x 24" IRON REBAR WEIGHING 1.5 LB/LF SET	—S—	STREET C/L OR R/L
■	MAG NAIL FOUND	—P—	PROPERTY LINE
□	MAG NAIL SET	—R—	RIGHT-OF-WAY LINE
▲	MAG SPIKE FOUND	—S—	SECTION LINE
△	MAG SPIKE SET	—746—	EXISTING CONTOURS
✕	CHISEL CROSS FOUND	—746—	PROPOSED CONTOURS
✕	CHISEL CROSS SET	—SAN—	EXISTING FORCEMAIN SEWER
⊙	COUNTY MONUMENT	—SAN—	EXISTING SANITARY SEWER
■	CONCRETE MONUMENT FOUND	—WM—	PROPOSED SANITARY SEWER
⊙	CONTROL POINT HORIZONTAL	—WM—	EXISTING WATER MAIN
⊕	VERTICAL BENCHMARK	—STO—	PROPOSED WATER MAIN
⊙	SOIL BORING or MONITORING WELL	—STO—	EXISTING STORM SEWER
□	POWER POLE	—STO—	PROPOSED STORM SEWER
⊕	POWER POLE W/GUY WIRE	—G—	EXISTING CURB & GUTTER
⊕	TELEPHONE OR TELEVISION PEDESTAL	—G—	PROPOSED CURB & GUTTER
□	MAILBOX	—G—	PROPOSED REJECT CURB & GUTTER
4	SIGN	—G—	EXISTING CULVERT WITH END SECTIONS
⊕	RAILROAD CROSS BUCK	—G—	PROPOSED CULVERT WITH END SECTIONS
⊕	RAILROAD GATE ARM	—G—	BUILDING OUTLINE
⊕	RAILROAD TRACKS	—G—	FENCE LINE
⊕	LIGHT POLE	—G—	SAW CUT REQ'D
⊕	WOOD POLE	—G—	SILT FENCE
⊕	TRAFFIC SIGNAL	—G—	GUARD RAIL
⊕	TRAFFIC SIGNAL MAST ARM	—G—	DITCH CHECK
⊕	CONIFEROUS TREE	—G—	INLET PROTECTION
⊕	DECIDUOUS TREE	—G—	TRACKING PAD
⊕	TREE OR BRUSH LINE	—G—	TURBIDITY BARRIER OR SHEET PILING
⊕	BED ROCK (IN PROFILE VIEW)	—G—	SANDBAG COFFERDAM
⊕	HANDICAPPED PARKING STALL	—G—	SLOPE INTERCEPT
⊕	EXISTING SPOT ELEVATION	—G—	LIMITS OF DISTURBANCE
⊕	PROPOSED SPOT ELEVATION	—G—	EXISTING
⊕	DRAINAGE HIGH POINT	—G—	PROPOSED
⊕	DRAINAGE DIRECTION	—G—	ASPHALT PAVEMENT
⊕	EXISTING MANHOLE	—G—	CONCRETE SIDEWALK/DRIVEWAY
⊕	PROPOSED MANHOLE	—G—	GRAVEL
⊕	EXISTING INLET	—G—	RIP-RAP (SIZE AS SPECIFIED)
⊕	PROPOSED INLET	—G—	EROSION MAT
⊕	EXISTING YARD DRAIN	—G—	EXISTING DELINEATED WETLANDS
⊕	PROPOSED YARD DRAIN	—G—	
⊕	EXISTING CLEAN OUT	—G—	
⊕	PROPOSED CLEAN OUT	—G—	
⊕	EXISTING DOWNSPOUT	—G—	
⊕	PROPOSED DOWNSPOUT	—G—	
⊕	EXISTING WATER VALVE	—G—	
⊕	PROPOSED WATER VALVE	—G—	
⊕	EXISTING CURB STOP	—G—	
⊕	PROPOSED CURB STOP	—G—	
⊕	EXISTING FIRE HYDRANT	—G—	
⊕	PROPOSED FIRE HYDRANT	—G—	
⊕	PROPOSED WATER FITTING	—G—	
⊕	PROPOSED WATER REDUCER	—G—	
⊕	PROPOSED ENDCAP	—G—	
⊕	GAS VALVE	—G—	

EROSION & SEDIMENT CONTROL PLAN

BEST MANAGEMENT PRACTICES:

THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES (DNR) TECHNICAL STANDARDS. THESE STANDARDS MAY BE FOUND ON THE DNR WEBSITE AT <http://www.dnr.wi.gov/runoff/stormwater/techstds.htm>. RIP-RAP SHALL BE IN ACCORDANCE WITH SECTION 606, WS-DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION, UNTIL TECHNICAL STANDARD 1065 IS COMPLETED BY THE DNR. THE MINIMUM BEST MANAGEMENT PRACTICES SPECIFIED FOR THIS PROJECT ARE AS FOLLOWS:

- | | |
|---|--|
| [] LAND APPLICATION OF POLYACRYLAMIDE (1050) | [X] DE-WATERING (1061) |
| [] WATER APPLICATION OF POLYMERS (1051) | [] DITCH CHECK (1062) |
| [] NON-CHANNEL EROSION MAT (1052) | [] SEDIMENT TRAP (1063) |
| [X] CHANNEL EROSION MAT (1053) | [] SEDIMENT BASIN (1064) |
| [] VEGETATIVE BUFFER (1054) | [X] RIP-RAP (1065) |
| [] SEDIMENT BALE BARRIER (1055) | [] CONSTRUCTION DIVERSION (1066) |
| [X] SILT FENCE (1056) | [] GRADING PRACTICES (1067) |
| [X] TRACKING PAD & TIRE WASHING (1057) | [X] DUST CONTROL (1068) |
| [X] MULCHING (1058) | [] TURBIDITY BARRIER (1069) |
| [X] SEEDING (1059) | [] SILT CURTAIN (1070) |
| [X] STORM DRAIN INLET PROTECTION (1060) | [] MANUFACTURED PERIMETER PRODUCTS (1071) |

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES AND IMPLEMENT BEST MANAGEMENT PRACTICES TO PREVENT OR REDUCE ALL OF THE FOLLOWING:

- A. DEPOSITION OR TRACKING OF SOIL ONTO STREETS BY VEHICLES.
- B. DISCHARGE OF SEDIMENT INTO STORM WATER INLETS.
- C. DISCHARGE OF SEDIMENT INTO ADJACENT STREAMS, RIVERS, LAKES AND WETLANDS.
- D. DISCHARGE OF SEDIMENT FROM DITCHES AND STORM SEWERS THAT FLOW OFFSITE.
- E. DISCHARGE OF SEDIMENT FROM DEWATERING ACTIVITIES.
- F. DISCHARGE OF SEDIMENT FROM SOIL STOCKPILES EXISTING FOR 7 DAYS OR MORE.
- G. DISCHARGE OF SEDIMENT FROM EROSION OUTLET FLOWS.
- H. TRANSPORT OF CHEMICALS, CEMENT AND BUILDING MATERIALS BY RUNOFF.
- I. TRANSPORT OF UNTREATED VEHICLE AND WHEEL WASH WATER BY RUNOFF.

THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING PREVENTATIVE MEASURES:

- A. PRESERVE EXISTING VEGETATION WHENEVER POSSIBLE.
- B. MINIMIZE SOIL COMPACTION AND PRESERVE TOPSOIL.
- C. MINIMIZE LAND DISTURBANCES ON SLOPES OF 20% OR MORE.
- D. MINIMIZE THE AMOUNT OF SOIL EXPOSED AT ANY ONE TIME.
- E. DIVERT CLEAR WATER AWAY FROM EXPOSED SOILS.
- F. TEMPORARILY STABILIZE EXPOSED SOILS THAT WILL NOT BE ACTIVE FOR 14 DAYS OR MORE. USE MULCHING, SEEDING, POLYACRYLAMIDE OR GRAVELING TO STABILIZE.
- G. PERMANENTLY STABILIZE EXPOSED SOILS AS SOON AS POSSIBLE.
- H. CONTRACTOR SHALL EDUCATE ITS EMPLOYEES AND SUBCONTRACTORS ABOUT PROPER SPILL PREVENTION AND RESPONSE PROCEDURES. IF A SPILL OCCURS, THE CONTRACTOR SHALL EVACUATE THE AREA AND IMMEDIATELY NOTIFY THE LOCAL MUNICIPALITY, FIRE DEPARTMENT OR 911 EMERGENCY SYSTEM. IF NO FIRE, EXPLOSION OR LIFE / HEALTH SAFETY HAZARD EXISTS, THE NEXT STEP IS TO CONTAIN THE SPILL AND PERFORM CLEANUP. USE DRY CLEANUP METHODS, NOT WET.

THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING BEST MANAGEMENT PRACTICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES BY THE END OF THE WORK DAY. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING BEST MANAGEMENT PRACTICES TEMPORARILY REMOVED FOR CONSTRUCTION ACTIVITY AS SOON AS THOSE ACTIVITIES ARE COMPLETED. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF TEMPORARY BEST MANAGEMENT PRACTICES AFTER CONSTRUCTION IS COMPLETE AND PERMANENT VEGETATION IS ESTABLISHED.

INSPECTION & MAINTENANCE:

THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING BEST MANAGEMENT PRACTICES WEEKLY, AND WITHIN 24 HOURS FOLLOWING A RAINFALL OF 0.5 INCHES OR GREATER. WRITTEN DOCUMENTATION OF EACH INSPECTION SHALL BE KEPT AT THE CONSTRUCTION SITE AND SHALL INCLUDE THE FOLLOWING INFORMATION: DATE, TIME, AND LOCATION OF INSPECTION; NAME OF INDIVIDUAL WHO PERFORMED THE INSPECTION; AN ASSESSMENT OF THE CONDITION OF BEST MANAGEMENT PRACTICES; A DESCRIPTION OF ANY BEST MANAGEMENT PRACTICE IMPLEMENTATION AND MAINTENANCE PERFORMED; AND A DESCRIPTION OF THE PRESENT PHASE OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, REPAIRING, OR REPLACING BEST MANAGEMENT PRACTICES AS NECESSARY WITHIN 24 HOURS OF AN INSPECTION OR NOTIFICATION. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING, MAINTAINING, REPAIRING, OR REPLACING BEST MANAGEMENT PRACTICES UNTIL ALL LAND DISTURBING CONSTRUCTION ACTIVITY IS COMPLETED AND A UNIFORM PERENNIAL VEGETATIVE COVER IS ESTABLISHED WITH A DENSITY OF AT LEAST 70%.

THE CONTRACTOR IS RESPONSIBLE FOR POSTING THE PERMIT IN A CONSPICUOUS LOCATION ON THE CONSTRUCTION SITE. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING A COPY OF THE APPROVED REPORTS, PLANS, AMENDMENTS, INSPECTION REPORTS, AND PERMITS AT THE CONSTRUCTION SITE AT ALL TIMES UNTIL ALL LAND DISTURBING CONSTRUCTION ACTIVITY IS COMPLETED AND A UNIFORM PERENNIAL VEGETATIVE COVER IS ESTABLISHED WITH A DENSITY OF AT LEAST 70%. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER WHEN THE VEGETATIVE DENSITY REACHES AT LEAST 70%. THE OWNER IS RESPONSIBLE FOR TERMINATING DNR PERMIT COVERAGE.

AMENDMENTS:

THE CONTRACTOR IS RESPONSIBLE FOR AMENDING THE EROSION & SEDIMENT CONTROL PLAN IF: THERE IS A CHANGE IN CONSTRUCTION, OPERATION OR MAINTENANCE AT THE SITE WHICH HAS THE REASONABLE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS; THE ACTIONS REQUIRED BY THE PLAN FAIL TO REDUCE THE IMPACTS OF POLLUTANTS CARRIED BY CONSTRUCTION SITE RUNOFF; OR IF THE DNR NOTIFIES THE APPLICANT OF CHANGES NEEDED IN THE PLAN. THE DNR AND OWNER SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO MAKING CHANGES TO THE PLAN.

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NO.	DATE	REVISION

**GLORY ROAD CULVERT REPLACEMENT
 VILLAGE OF ASHWAUBENON
 ABBREVIATIONS SYMBOLS NOTES**

DESIGNED AWS	DRAWN AWS
PROJECT NO. A0017 09-24-00770	
DATE FEB., 2025	
SHEET NO. 01	

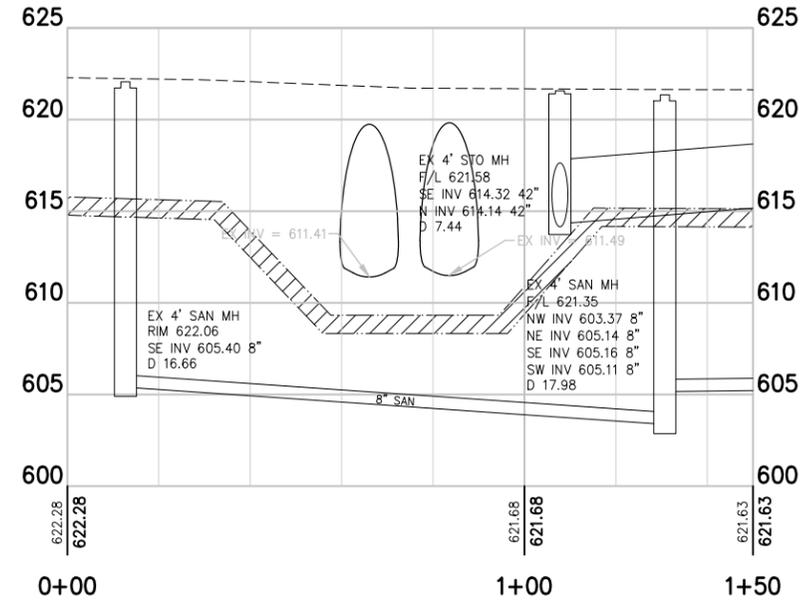
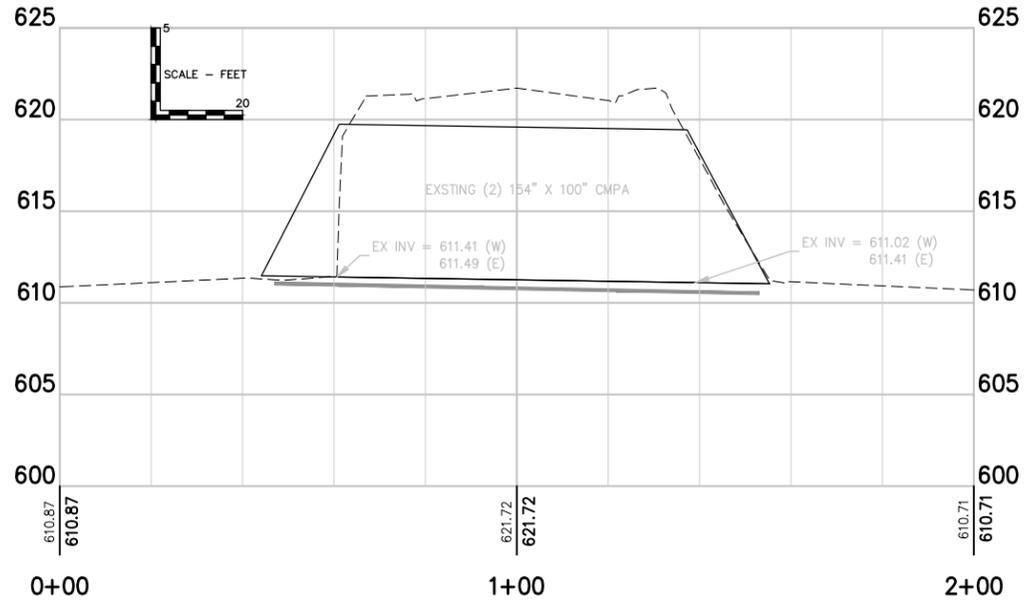
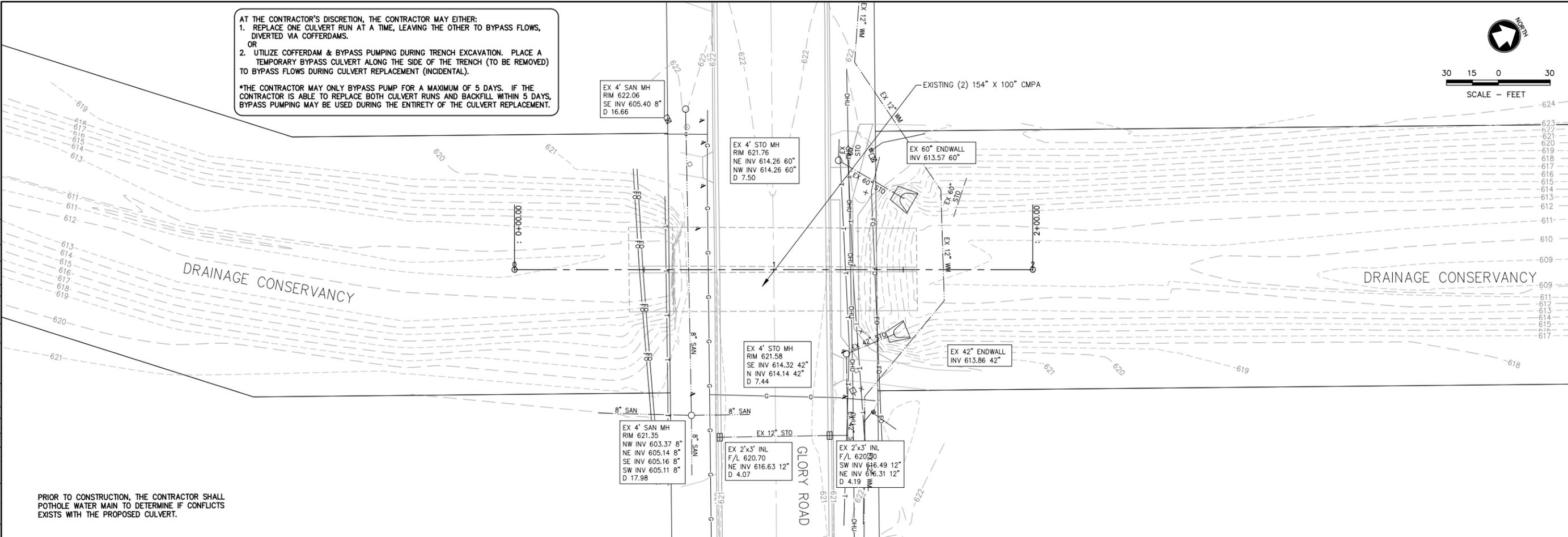
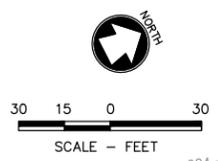
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AT THE CONTRACTOR'S DISCRETION, THE CONTRACTOR MAY EITHER:
 1. REPLACE ONE CULVERT RUN AT A TIME, LEAVING THE OTHER TO BYPASS FLOWS, DIVERTED VIA COFFERDAMS.
 OR
 2. UTILIZE COFFERDAM & BYPASS PUMPING DURING TRENCH EXCAVATION. PLACE A TEMPORARY BYPASS CULVERT ALONG THE SIDE OF THE TRENCH (TO BE REMOVED) TO BYPASS FLOWS DURING CULVERT REPLACEMENT (INCIDENTAL).
 *THE CONTRACTOR MAY ONLY BYPASS PUMP FOR A MAXIMUM OF 5 DAYS. IF THE CONTRACTOR IS ABLE TO REPLACE BOTH CULVERT RUNS AND BACKFILL WITHIN 5 DAYS, BYPASS PUMPING MAY BE USED DURING THE ENTIRETY OF THE CULVERT REPLACEMENT.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL POT HOLE WATER MAIN TO DETERMINE IF CONFLICTS EXISTS WITH THE PROPOSED CULVERT.



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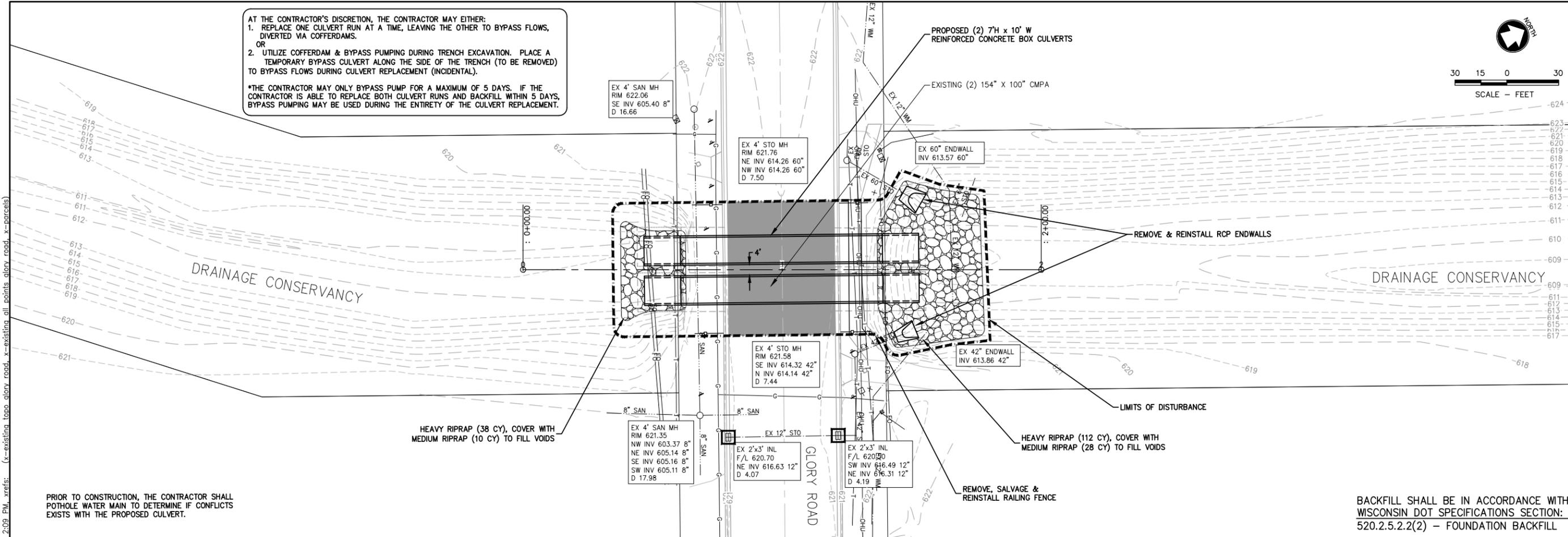
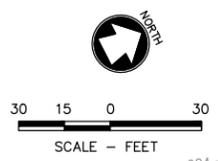
NO.	DATE	REVISION

GLORY ROAD CULVERT REPLACEMENT
VILLAGE OF ASHWAUBENON
EXISTING CULVERT

DESIGNED AWS	DRAWN AWS
PROJECT NO. A0017 09-24-00770	
DATE FEB., 2025	
SHEET NO. 03	

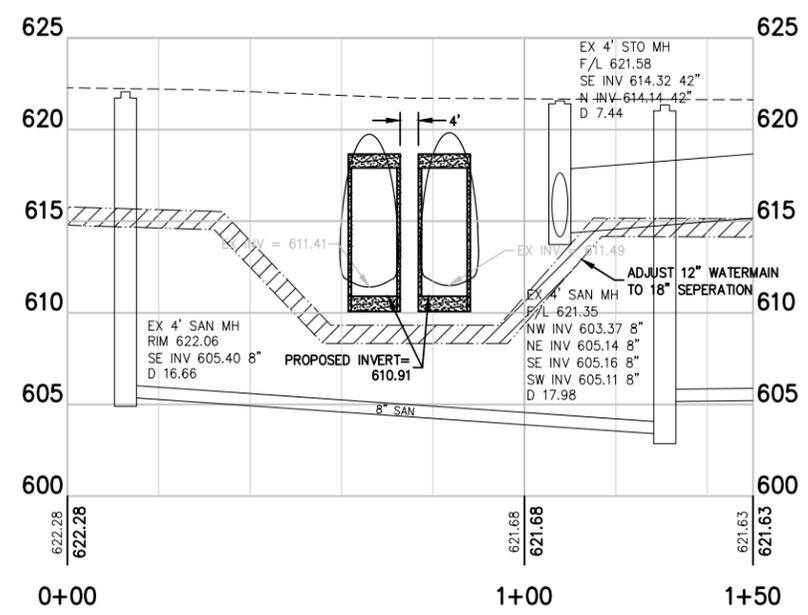
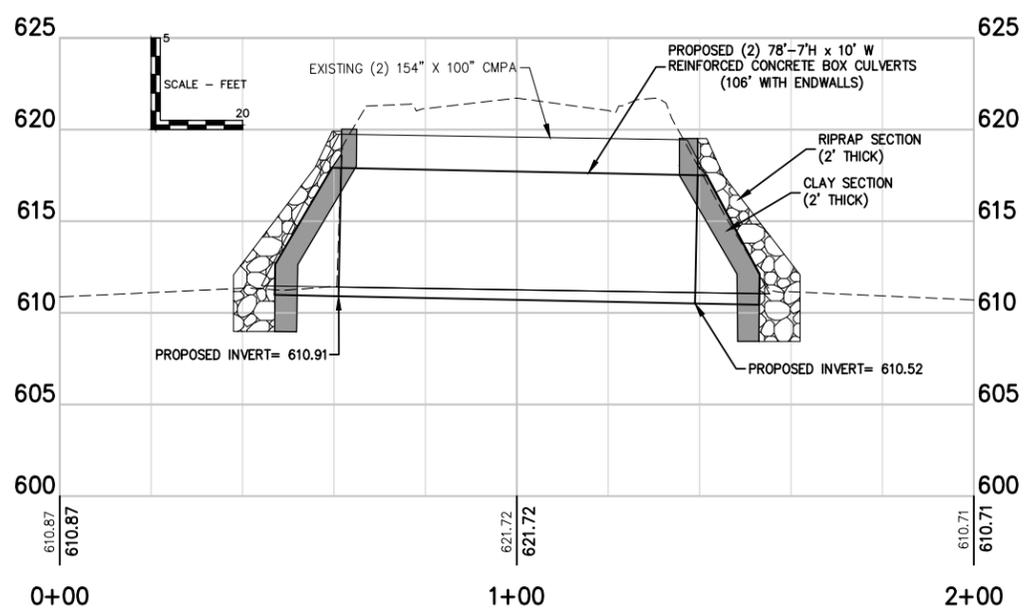
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AT THE CONTRACTOR'S DISCRETION, THE CONTRACTOR MAY EITHER:
 1. REPLACE ONE CULVERT RUN AT A TIME, LEAVING THE OTHER TO BYPASS FLOWS, DIVERTED VIA COFFERDAMS.
 OR
 2. UTILIZE COFFERDAM & BYPASS PUMPING DURING TRENCH EXCAVATION. PLACE A TEMPORARY BYPASS CULVERT ALONG THE SIDE OF THE TRENCH (TO BE REMOVED) TO BYPASS FLOWS DURING CULVERT REPLACEMENT (INCIDENTAL).
 *THE CONTRACTOR MAY ONLY BYPASS PUMP FOR A MAXIMUM OF 5 DAYS. IF THE CONTRACTOR IS ABLE TO REPLACE BOTH CULVERT RUNS AND BACKFILL WITHIN 5 DAYS, BYPASS PUMPING MAY BE USED DURING THE ENTIRETY OF THE CULVERT REPLACEMENT.



PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL POTHOLE WATER MAIN TO DETERMINE IF CONFLICTS EXISTS WITH THE PROPOSED CULVERT.

BACKFILL SHALL BE IN ACCORDANCE WITH WISCONSIN DOT SPECIFICATIONS SECTION: 520.2.5.2.2(2) - FOUNDATION BACKFILL



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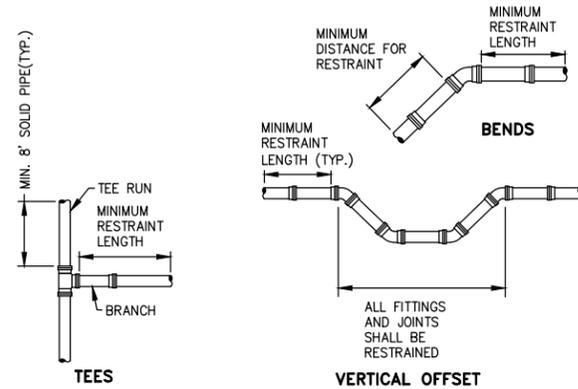
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NO.	DATE	REVISION

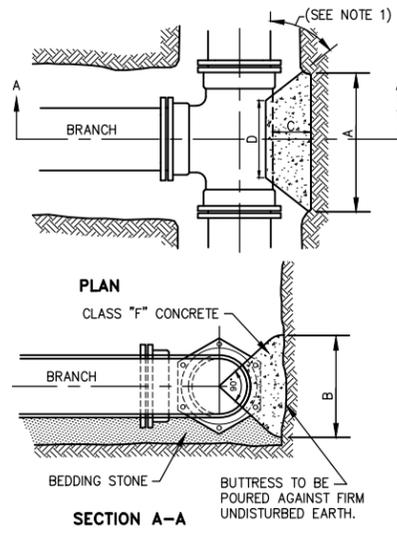
**GLORY ROAD CULVERT REPLACEMENT
 VILLAGE OF ASHWAUBENON
 PROPOSED CULVERT**

DESIGNED AWS	DRAWN AWS
PROJECT NO. A0017 09-24-00770	
DATE FEB., 2025	
SHEET NO. 04	

Minimum Restraint Length (ft) on both sides of the Fitting				
Fitting Type/Nominal Size	6"	8"	12"	16"
11 1/4" Bend	2	2	3	3
22 1/2" Bend	3	3	5	6
45" Bend	5	6	9	11
90" Bend	11	15	21	27
Dead End	30	40	56	73
Top Side of a Vertical Offset ¹	13	17	24	31
Tee Run x Branch 6"BY	14			
Tee Run x Branch 8"BY	10	24		
Tee Run x Branch 12"BY	1	15	40	
Tee Run x Branch 16"BY	1	7	33	56



WATER MAIN RESTRAINT DETAIL

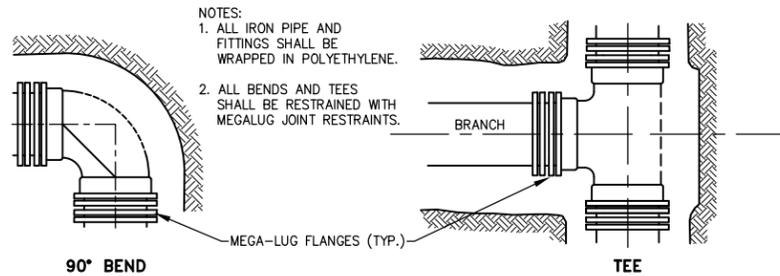


BLOCKING FOR TEES

BUTTRESS DIMENSIONS				
B.D.	A	B	C	D
6"	1'-3"	1'-0"	SEE NOTE 1	SEE NOTE 2
8"	1'-6"	1'-4"		
12"	2'-3"	2'-0"		
16"	3'-2"	2'-6"		
20"	4'-0"	3'-0"		
24"	5'-3"	3'-4"		
30"	6'-6"	4'-3"		

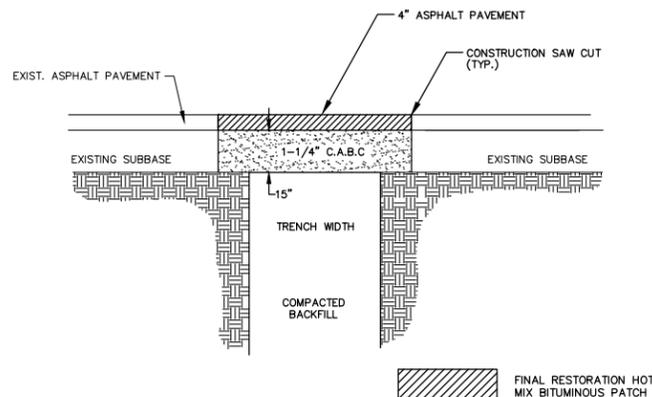
B.D. = BRANCH DIAMETER

- NOTES:
- DIMENSION "C" SHOULD BE LARGE ENOUGH TO MAKE ANGLE EQUAL TO OR LARGER THAN 45°.
 - DIMENSION "D" EQUALS APPROX. I.D. OF PIPE LESS 2". AN EFFORT SHOULD BE MADE TO PREVENT THE CONCRETE FROM COVERING THE M.J. BOLTS.
 - WHERE BUTTRESSES ARE NOT POSSIBLE BECAUSE OF POOR SOIL CONDITIONS OR LACK OF ROOM, STRAPPING SHALL BE PERMITTED.
 - DIMENSIONS IN TABLE ARE BASED ON A WATER PRESSURE OF 150 P.S.I. AND ON EARTH RESISTANCE OF 2 TONS PER SQ. FT.
 - ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
 - ALL FITTINGS SHALL BE EPOXY COATED.



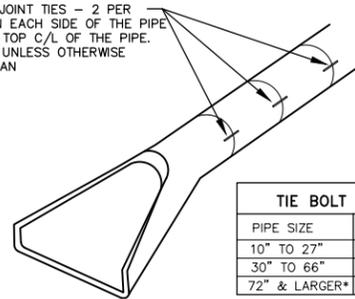
RESTRAINT FOR BENDS & TEES

FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON SSB OR CAST IRON WITH STAINLESS STEEL NUTS AND BOLTS. ALL FITTINGS SHALL HAVE A PRESSURE RATING OF 350 PSI. ALL FITTINGS SHALL BE EPOXY COATED.



BITUMINOUS PAVEMENT RESTORATION

GALVANIZED PIPE JOINT TIES - 2 PER JOINT LOCATED ON EACH SIDE OF THE PIPE AT 60" FROM THE TOP C/L OF THE PIPE. TIE THREE JOINTS UNLESS OTHERWISE NOTED ON THE PLAN

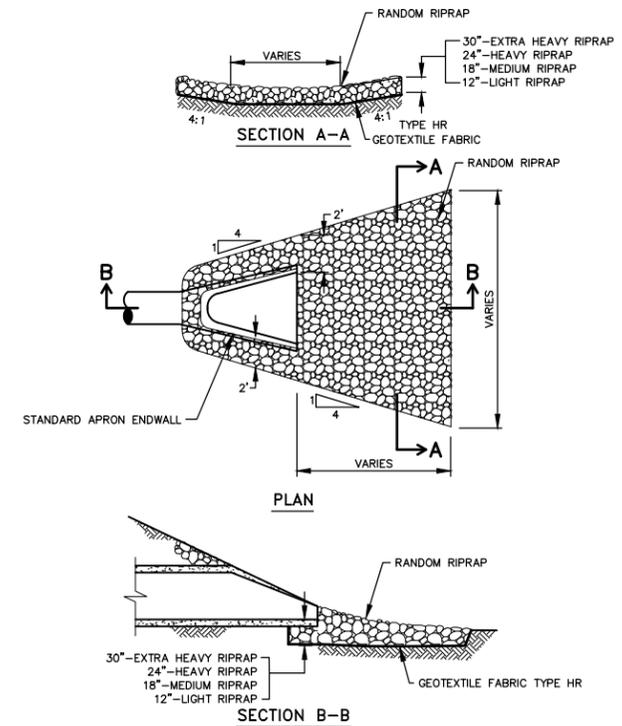


CONCRETE APRON DETAIL

TIE BOLT REQUIREMENTS		
PIPE SIZE	BAR DIA.	BOLTS
10" TO 27"	5/8"	32"
30" TO 66"	3/4"	32"
72" & LARGER*	1"	32"

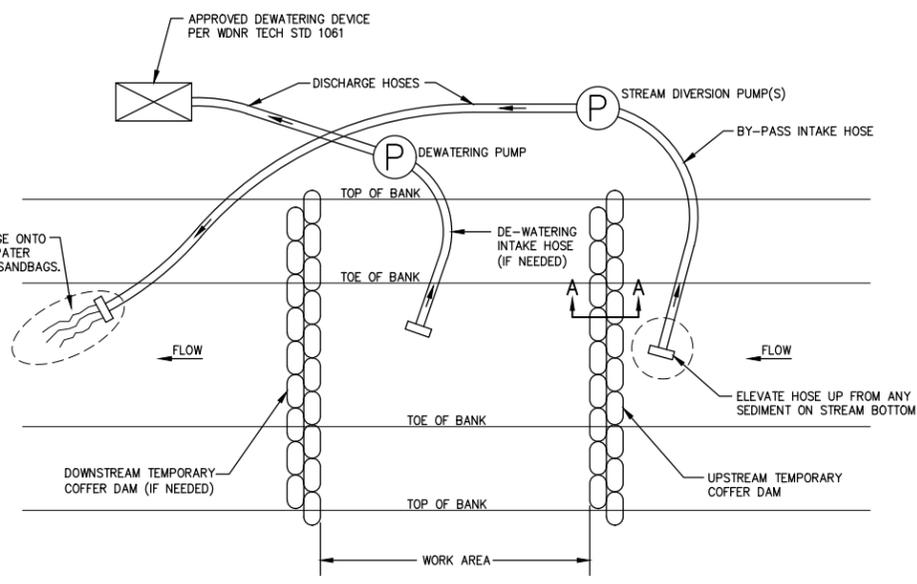
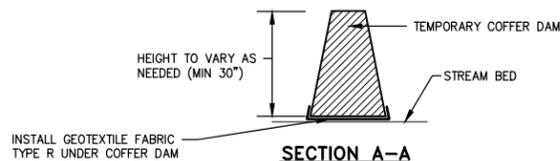
* INCLUDES CONCRETE BOX

- RIP-RAP SHALL BE IN ACCORDANCE WITH SECTION 606, WIS-DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION.
- RIP-RAP SHALL BE ANGULAR. ROUND RIP-RAP IS NOT PERMITTED.



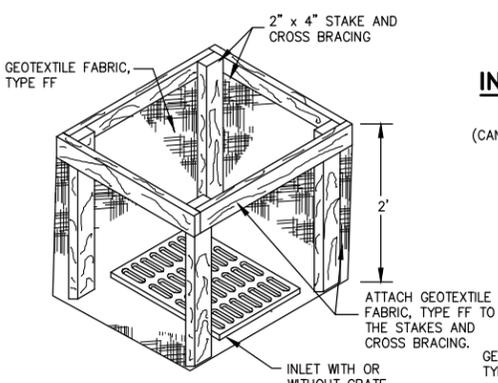
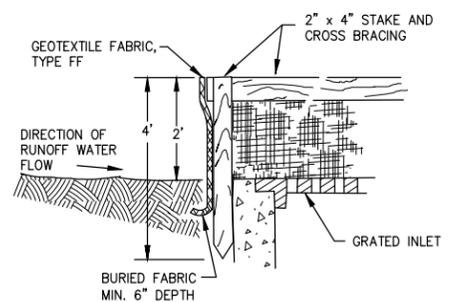
RIPRAP AT STORM SEWER OUTFALL

NO.	DATE	REVISION



- NOTES:
1. COFFER DAM MAY BE SHEET PILE, CONCRETE JERSEY BARRIERS, SANDBAGS OR OTHER DEVICES AS APPROVED BY WDNR
 2. BY-PASS PUMPING SHALL ONLY BE COMPLETED DURING LOW FLOW CONDITIONS.
 3. DEWATERING SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061, IF NECESSARY
 4. DISCHARGE FROM DEWATERING DEVICES SHALL DRAIN BACK INTO THE CHANNEL DOWNSTREAM OF SEDIMENT COFFER DAM.

TEMPORARY COFFER DAM & BY-PASS PUMPING DETAIL

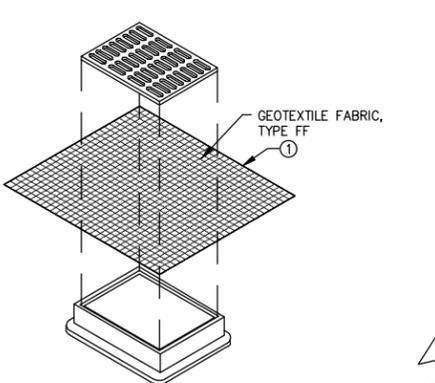


INLET PROTECTION, TYPE A

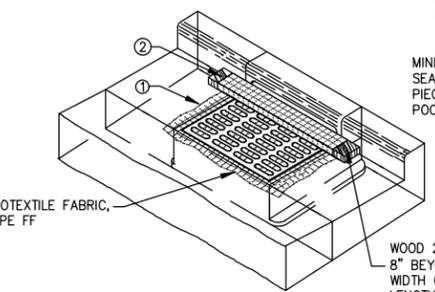
GENERAL NOTES
 MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1 FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- 2 FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- 3 FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



**INLET PROTECTION, TYPE B
 (WITHOUT CURB BOX)
 (CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)**



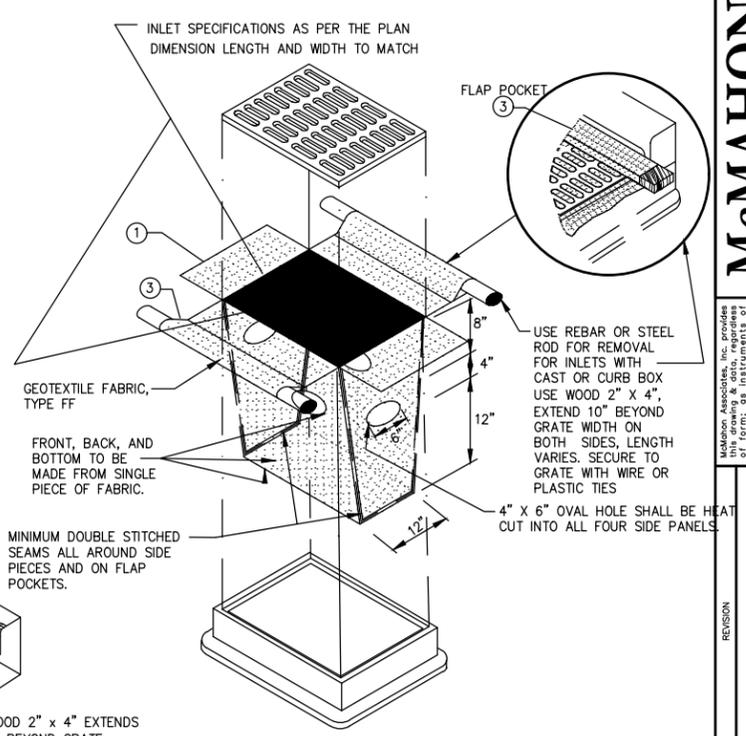
**INLET PROTECTION, TYPE C
 (WITH CURB BOX)**

INSTALLATION NOTES

TYPE B & C
 TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D
 DO NOT INSTALL INLET PROTECTION TYPE D 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 WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH 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.

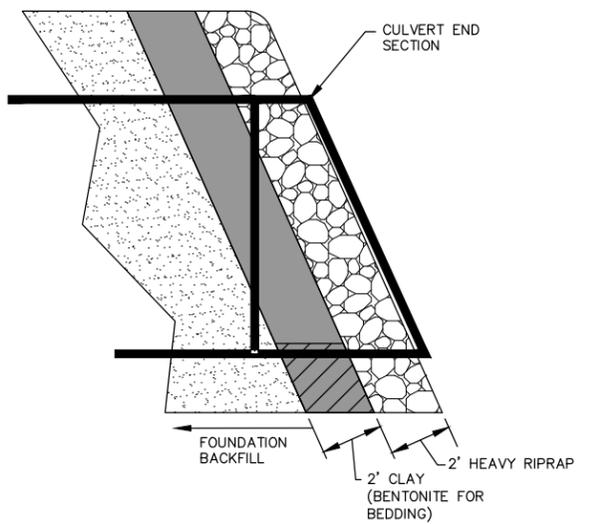
STORM DRAIN INLET PROTECTION



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE 2)

This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 10-2.



CULVERT ENDWALL BACKFILL SECTION

McMAHON
 EROSION CONTROL
 McMAHON ASSOCIATES, INC.
 1445 McMAHON DRIVE NEENAH, WI 54956
 MAILING: P.O. BOX 1025 NEENAH, WI 54957-1025
 PH 920.751.4200 FX 920.751.4284 MCMGRP.COM

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NO.	DATE	REVISION

GLORY ROAD CULVERT REPLACEMENT
 VILLAGE OF ASHWAUBENON
 EROSION CONTROL DETAILS

DESIGNED AWS	DRAWN AWS
PROJECT NO. A0017 09-24-00770	
DATE FEB., 2025	
SHEET NO.	

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