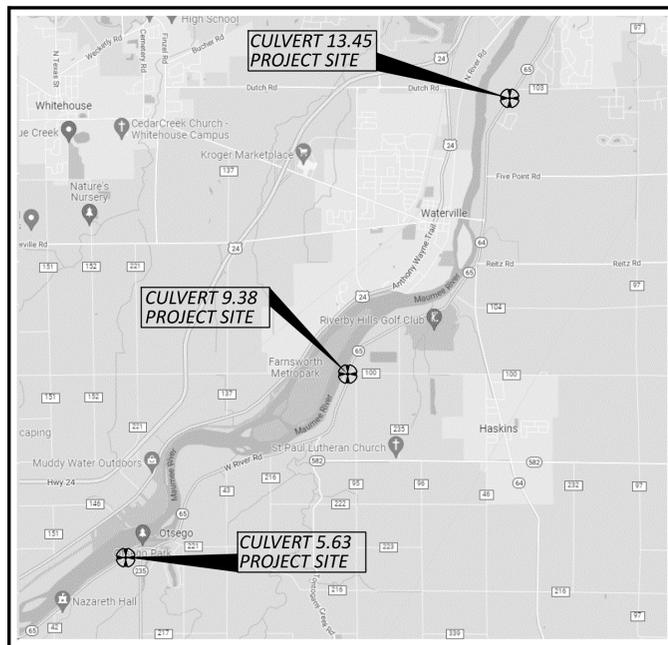


STATE OF OHIO DEPARTMENT OF TRANSPORTATION

WOO-65-5.63/9.38/13.45

MIDDLETON & WASHINGTON TOWNSHIP
WOOD COUNTY



LOCATION MAP

5.63 - LATITUDE: N41°26'34.2" LONGITUDE: W83°47'26.0"
9.38 - LATITUDE: N41°28'26.3" LONGITUDE: W83°44'24.2"
13.45 - LATITUDE: N41°31'12.3" LONGITUDE: W83°42'13.4"



PORTION TO BE IMPROVED	=====
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	=====
STATE ROUTES	=====
COUNTY & TOWNSHIP ROADS	=====
OTHER ROADS	-----

DESIGN DESIGNATION

	WOO-65-5.63	WOO-65-9.38	WOO-65-13.45
OPENING YEAR ADT (2024)	1800	3200	2700
DESIGN YEAR ADT (2044)	2100	3200	2700
DHV	200	350	300
DIRECTIONAL DISTRIBUTION	59%	54%	63%
FUNCTIONAL CLASS	RURAL MAJOR COLLECTOR	RURAL MAJOR COLLECTOR	RURAL MAJOR COLLECTOR
TRUCKS	3%	2%	2%
DESIGN SPEED	60 MPH	60 MPH	60 MPH
LEGAL SPEED	55 MPH	55 MPH	55 MPH

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

OHIO811. 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
DGL CONSULTING ENGINEERS, LLC
3455 BRIARFIELD BOULEVARD - SUITE C
MAUMEE, OH 43537

ENGINEER'S SEAL

DGL CONSULTING ENGINEERS

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FEDERAL PROJECT NUMBER

E130137

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

REMOVE HEADWALL AND REPLACE CULVERT AT SLM 5.63. REPLACE CULVERT AT SLM 9.38. REPLACE CULVERT AT SLM 13.45.

EARTH DISTURBED AREAS

WOO-65-5.63	
PROJECT EARTH DISTURBED AREA:	0.14 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.1 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A (NOI NOT REQUIRED)
WOO-65-9.38	
PROJECT EARTH DISTURBED AREA:	0.28 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.1 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A (NOI NOT REQUIRED)
WOO-65-13.45	
PROJECT EARTH DISTURBED AREA:	0.68 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.1 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A (NOI NOT REQUIRED)

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEETS 7 AND 8.

Pat McColley, PE
Pat McColley, P.E., S.I.
District 02 Deputy Director

Jack Marchbanks, PhD
Jack Marchbanks, PhD
Director, Department of Transportation

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/21/22	MH-3	7/16/21	SS 800 10/20/23	WATERWAY PERMIT
BP-4.1	7/19/13	TC-42.20	10/18/13	SS 832 7/21/23	9/22/23
MGS-1.1	7/16/21	TC-65.10	1/17/14	SS 878 1/21/22	
MGS-2.1	1/19/18	MT-101.60	4/21/23		
MGS-5.3	7/15/16	MT-105.10	1/17/20		
CB-2-2B	1/20/23				
DM-1.1	7/17/20				
DM-1.2	7/16/21				
DM-4.4	1/15/16				
HW-1.1	7/20/18				
HW-2.1	7/15/22				
HW-2.2	7/20/18				

TITLE SHEET

DESIGN AGENCY



DESIGNER

SRC

REVIEWER

NBL 10-26-23

PROJECT ID

93680

SHEET TOTAL

1 67

WOO-65-5.63/9.38/13.45

MODEL: Sheet PAPER: 34x22 (in.) DATE: 3/18/2024 TIME: 11:16:39 AM USER: SRC
M:\21147_ODOT - WOO-65-5.63_9.38_13.45-Culverts\93680\400-Engineering\Roadway\Sheets\93680_GTO01.dgn

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

BUCKEYE CABLEVISION
2700 OREGON RD
NORTHWOOD, OH 43519
419.724.3713

KINDER MORGAN PIPELINE
PO BOX 832
GOSHEN, IN 46527
574.534.1486 EXT 22

TOLEDO EDISON
6099 ANGOLA RD
HOLLAND, OH 43528
419.249.5218

WATERVILLE OIL AND GAS COMPANY
700 FARNSWORTH RD
WATERVILLE, OH 43566
419.878.4972

NORTHWESTERN WATER & SEWER DIST.
PO BOX 348
BOWLING GREEN OH 43402
419.354.9090

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

PAVEMENT MARKING COORDINATION

PAVEMENT MARKINGS MUST BE PLACED PRIOR TO OPENING THE PROJECT TO TRAFFIC. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER FOURTEEN (14) DAYS IN ADVANCE OF THE NEED TO PLACE THE PAVEMENT MARKINGS. THE PROJECT ENGINEER SHALL CONTACT THE DISTRICT TRAFFIC MAINTENANCE ENGINEER AT 419-373-4303 TO SCHEDULE THE PAVEMENT MARKING PLACEMENT PRIOR TO OPENING THE ROADWAY TO TRAFFIC.

RAISED PAVEMENT MARKER COORDINATION

THE PROJECT ENGINEER SHALL ALSO CONTACT THE DISTRICT RAISED PAVEMENT MARKER (RPM) MAINTENANCE CONTRACT PROJECT MANAGER TO HAVE THE RPMS THAT WERE REMOVED FROM THE PROJECT REPLACED AT THE EARLIEST POSSIBLE DATE. RPMS WILL NOT BE REQUIRED TO BE PLACED PRIOR TO OPENING THE ROADWAY TO TRAFFIC.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

SITE	5.63	9.38	13.45	TOTAL
RAISED PAVEMENT MARKER REMOVED,	1	2	6	9 EACH

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

EXCAVATION AS PER PLAN

THIS ITEM SHALL CONSIST OF REMOVING THE EXISTING GABION WALLS AND BACKFILLING THE AREA WITH EMBANKMENT AS PER ODOT CMS 203. ALL EQUIPMENT, LABOR, AND MATERIAL NECESSARY TO COMPLETE THIS WORK SHALL BE PAID FOR UNDER UNIT PRICE BID FOR ITEM 203 EXCAVATION, AS PER PLAN.

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO COMPLETE THE WORK DESCRIBED ABOVE.

ITEM 203 EXCAVATION, AS PER PLAN	312	CY
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SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 54 FOR PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING.

ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, SINGLE.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

NOTE MODIFIED AND MOVED TO SHEET 5A

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

SITE	5.63	9.38	13.45	TOTAL
659, SOIL ANALYSIS TEST	2	2	2	6 EACH
659, TOPSOIL	7	115	182	304 CU. YD.
659, SEEDING AND MULCHING	64	1031	1638	2733 SQ. YD.
659, COMMERCIAL FERTILIZER	0.01	0.14	0.23	0.38 TON
659, LIME	0.01	0.22	0.34	0.57 ACRES
659, WATER	1	4	4	9 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

ENDANGERED BAT HABITAT REMOVAL

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT (ESA). FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK 3 INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

ITEM 620 - REMOVAL OF DELINEATOR

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 620 - REMOVAL OF DELINEATOR	3	EACH
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PRIMARY PROJECT CONTROL WOO-65-05.63						
POINT	STATION	OFFSET	ELEV	DESCRIPTION	NORTHING	EASTING
MN500	290+98.72	23.62	659.79	3/4"x30" REBAR W/ PROJECT CONTROL CAP	649358.502	1614199.439
MN501	298+14.44	28.35	659.48	3/4"x30" REBAR W/ PROJECT CONTROL CAP	649774.108	1614785.773
MN502	305+87.73	11.74	660.51	3/4"x30" REBAR W/ PROJECT CONTROL CAP	650302.171	1615350.926
BM2	299+44.08	28.22	661.01	MAG NAIL IN NW SIDE OF UTILITY POLE	649860.662	1614882.29
BM1	297+29.04	-20.63	659.50	CUT "X" ON CONC PAD	649755.66	1614689.335

PRIMARY PROJECT CONTROL WOO-65-09.38						
POINT	STATION	OFFSET	ELEV	DESCRIPTION	NORTHING	EASTING
MN520	494+65.75	-13.85	656.00	3/4"x30" REBAR W/ PROJECT CONTROL CAP	660807.635	1628671.2
MN521	496+66.63	14.90	656.32	3/4"x30" REBAR W/ PROJECT CONTROL CAP	661001.679	1628729.759
MN523	503+01.49	-5.25	655.07	3/4"x30" REBAR W/ PROJECT CONTROL CAP	661599.758	1628935.088
BM21	494+72.05	26.11	654.84	CUT "X" ON SW CORNER OF CATCH BASIN	660810.57	1628711.545
BM20	495+91.08	166.75	657.41	RR SPIKE IN W SIDE OF UTILITY POLE	660902.87	1628864.99

PRIMARY PROJECT CONTROL WOO-65-13.45						
POINT	STATION	OFFSET	ELEV	DESCRIPTION	NORTHING	EASTING
MN540	705+16.30	-16.47	639.43	3/4"x30" REBAR W/ PROJECT CONTROL CAP	677118.291	1638594.146
MN541	708+83.88	-18.25	624.77	3/4"x30" REBAR W/ PROJECT CONTROL CAP	677425.727	1638795.643
MN542	712+61.29	-22.88	633.58	3/4"x30" REBAR W/ PROJECT CONTROL CAP	677742.933	1639000.199
MN543	717+15.66	-21.65	638.98	3/4"x30" REBAR W/ PROJECT CONTROL CAP	678121.064	1639252.134
BM41	713+43.97	-25.75	639.13	MAG NAIL IN NW SIDE UTILITY POLE	677813.444	1639043.462
BM40	708+71.04	28.01	633.61	MAG NAIL IN NW SIDE OF UTILITY POLE	677389.478	1638827.115

CLEARING AND GRUBBING

ODOT SHALL BE RESPONSIBLE FOR ALL TREE CUTTING, WHICH SHALL BE PERFORMED OUTSIDE OF THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TREE REMOVAL.

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING, EXCEPT AS NOTED BELOW.

THE CONTRACTOR SHALL LEAVE IN PLACE THE STUMPS OF ALL CUT TREES AT THE WOO-65-05.63 LOCATION TO AID IN BANK STABILIZATION, UNLESS THE REMOVAL IS REQUIRED TO COMPLETE A DIFFERENT ITEM OF WORK. PLEASE NOTIFY MR. ROBERT GABLE (OHIO DEPARTMENT OF NATURAL RESOURCES) AT THE EMAIL OR NUMBER LISTED IN THE PLANS IF IT BECOMES NECESSARY TO REMOVE ANY STUMPS. A JUSTIFICATION SHALL BE PROVIDED AS TO WHY THE STUMP NEEDS TO BE REMOVED TO COMPLETE A DIFFERENT ITEM OF WORK.

ALL STUMPS AT THE WOO-65-13.45 LOCATION THAT CONFLICT WITH THE PROPOSED DRILLED SHAFTS AND RETAINING WALL CONSTRUCTION SHALL BE REMOVED WHETHER SPECIFICALLY MARKED FOR REMOVAL OR NOT. COST SHALL BE INCLUDED IN LUMP SUM CLEARING AND GRUBBING.

THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
WOO-65-05.63			
18"	5	0	5
WOO-65-09.38			
18"	12	0	12
WOO-65-13.45			
18"	22	10	32
30"	1	0	1
48"	0	1	1

RECREATIONAL PROTECTIONS (WOO-65-09.38)

ALL CANOE TRAFFIC SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION OF THE PROJECT EITHER THROUGH THE EXISTING RIVER CHANNEL OR THROUGH A PORTAGE TRAIL APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL BE ALERT TO THE POSSIBLE PRESENCE OF BOATING TRAFFIC AND SHALL ACCOMMODATE SAFE TRAVEL FOR ALL BOATERS THROUGH THE PROJECT AREA DURING CONSTRUCTION.

DRINKING WATER SOURCE PROTECTION AREAS

INLAND SURFACE WATER CORRIDOR MANAGEMENT ZONE OF THE CITY OF BOWLING GREEN COMMUNITY WATER SYSTEM (CWS) AND INLAND SURFACE WATER SOURCE WATER AREA WATERSHED OF THE CITY OF BOWLING GREEN COMMUNITY WATER SYSTEM (CWS) ARE LOCATED WITHIN THE PROJECT FROM STATION 296+67.86 TO STATION 297+94.94 AND FROM STATION 493+23.04 TO 499+18.88. USE PROPER CONTAINMENT AND DIKING IN REFUELING AREAS ESTABLISHED FROM THE PROJECT. DO NOT STORE FUELS, TOXIC/HAZARDOUS MATERIALS, AND CHEMICALS NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. MAINTAIN A SPILL KIT ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. IMMEDIATELY MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. REPORT ALL SPILLS OR EVENTS TO THE CITY OF BOWLING GREEN WATER DISTRIBUTION AND WASTEWATER COLLECTION DIVISION AT 419-354-6277 OR THE DIVISION'S EMERGENCY PHONE NUMBER AT 419-352-1131. IF THE SPILL IS A REPORTABLE AMOUNT (PER EPA RELEASE REPORTING REQUIREMENTS), CONTACT THE WOOD COUNTY EMERGENCY MANAGEMENT AGENCY AT 419-354-9269 OR THE OHIO EPA SPILLS HOTLINE AT 800-282-9378 FOR CLEAN UP OF THE SPILL.

ODNR SCENIC RIVERS RESTRICTIONS (WOO-65-05.63 AND WOO-65-09.38)

DO NOT DISCHARGE TOXIC OR HAZARDOUS MATERIALS SUCH AS SEALANTS, PAINT, SOLVENTS, CLEANING AGENTS, EARTHEN MATERIALS, WASTE-WATER, FUELS OR DEBRIS OF ANY KIND TO A SCENIC RIVER, ITS TRIBUTARIES, OR DRAINAGE WAYS. IF REFUELING OF IMMOBILE EQUIPMENT IS NECESSARY WITHIN THE FLOODPLAIN OR NEAR ANY TRIBUTARY DRAINAGE WAYS, DITCHES, OR STREAM, PROVIDE SECONDARY CONTAINMENT WITH ENOUGH CAPACITY TO COMPLETELY CONTAIN AND COLLECT ALL POTENTIAL LIQUID WASTES IN THE EVENT OF A SPILL.

DISPOSE OF ALL CONSTRUCTION DEBRIS, EARTHEN DEBRIS, EXCESS ASPHALT OR CONCRETE, WOOD DEBRIS FROM CLEARING, EXCESS FILL MATERIAL, AND TRASH AT AN APPROVED UPLAND SITE OR LAND FILL ABOVE FEMA 100-YEAR FLOOD ELEVATIONS AND NOT WITHIN 1000 FEET OF THE MAUMEE RIVER.

REPORT SPILLS EQUAL TO OR EXCEEDING THE REPORTABLE QUANTITIES PRESCRIBED IN OAC CHAPTER 3750-25, IN ACCORDANCE WITH ORC 3750.06, TO THE LOCAL FIRE DEPARTMENT (911), THE LOCAL EMERGENCY COORDINATOR [NUMBER], AND THE OHIO SPILL LINE (1-800-282-9378).

KEEP ALL IDLE EQUIPMENT AND ANY STORAGE FOR/OF, FUELS, LUBRICANTS, POTENTIALLY TOXIC OR HAZARDOUS MATERIALS BEYOND 1000 FEET OF THE MAUMEE RIVER. THE ONLY EXCEPTIONS WILL BE FOR LARGE STATIONARY CRANES, DRILL RIGS, AND OTHER LARGE CONSTRUCTION EQUIPMENT WITH LIMITED MOBILITY. IDLE EQUIPMENT IS DEFINED AS CONSTRUCTION EQUIPMENT THAT WILL NOT BE IN USE FOR THE FOLLOWING TWO CALENDAR DAYS. NOTIFY THE ENGINEER OF WEATHER OR RIVER CONDITIONS THAT MAY IMPACT THE WORK SITE AND PROVIDE A PLAN FOR IMMEDIATE MOVEMENT OF ALL EQUIPMENT 1000 FEET OR MORE FROM THE RIVER.

WHEN CUTTING AND CLEARING OF ANY VEGETATION WITHIN 1000 FEET OF THE MAUMEE RIVER, LIMIT THE AMOUNT OF VEGETATION BEING CLEARED TO THE ABSOLUTE MINIMUM NECESSARY TO ACCOMPLISH THE GOAL OF THE PROJECT. VERTICAL PRUNING OF TREES IS PERMITTED IF ANY OVERHANGING LIMBS CAUSE A SAFETY HAZARD OR OBSTRUCT VIEW. DO NOT USE A FLAIL MOWER FOR VERTICAL PRUNING. AVOID GIRDLING OR SCUFFING TREE TRUNKS.

THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A SEDIMENT AND EROSION CONTROL PLAN BEFORE EARTHWORK COMMENCES. THE PLAN SHALL INCLUDE A LIST OF APPLICABLE BMPS, PER SS 832 THAT WILL BE USED THROUGHOUT THE PROJECT, SUCH AS PERIMETER CONTROLS AND/OR SEEDING AND MULCHING, AND MUST BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW AND ACCEPTANCE. SEDIMENT AND EROSION CONTROLS SHALL BE PROPERLY INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. STRAW BALES SHALL NOT BE PERMITTED AS A FORM OF SEDIMENT CONTROL. ALL TEMPORARY SEDIMENT AND EROSION CONTROLS SHALL BE REMOVED UPON STABILIZATION OF THE PROJECT AREA. PARTICULAR ATTENTION SHALL BE GIVEN TO ANY DRAINAGE WAYS, UNPROTECTED SLOPES, DITCHES, AND STREAMS THAT COULD CONVEY SEDIMENT LADEN WATERS DIRECTLY TO THE MAUMEE RIVER.

POLE HOLDING (WOO-65-05.63 AND WOO-65-09.38)

FOR ANY POLE HOLDING, PLEASE ALLOW AN 8 WORKING DAY ADVANCE NOTIFICATION FOR OUR LINE'S SCHEDULER. YOU WILL NEED TO CONTACT OUR CUSTOMER SERVICE CALL CENTER TO INITIATE A POLE HOLD WORK REQUEST. YOU CAN REACH OUR CALL CENTER AT 1-800-447-3333. OUR CONTACT CENTERS ARE OPEN MONDAY THRU FRIDAY, 8:00 A.M. TO 6:00 P.M.

HEADWALL REMOVED, AS PER PLAN, WOO-65-5.63

REMOVE THE RETAINING WALL TO THE ELEVATION SHOWN IN THE PLAN SHEETS.

OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR) COORDINATION

PLEASE NOTIFY SCENIC RIVER PROGRAM MANAGER, BOB GABLE, OF THE PROJECT START DATE PRIOR TO THE COMMENCEMENT OF WORK MR. GABLE MAY BE CONTACTED AT ROBERT.GABLE@DNR.OHIO.GOV OR (O) 614-265-6814 OR (M) (614) 204-7862.

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT

THIS ITEM CONSISTS OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING 18 INCH DIAMETER CONDUIT AND FILLING THE AREA SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

LOCATE THE BULKHEADS AT THE LIMITS OF THE AREA TO BE FILLED, AS INDICATED ON THE PLANS. THE BULKHEADS CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

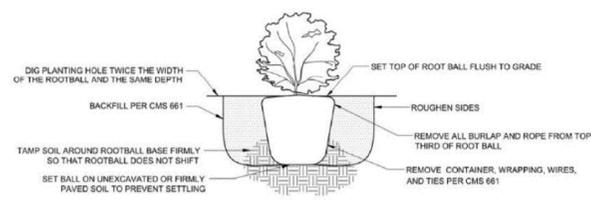
PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

THE LENGTH, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

ITEM 661, DECIDUOUS TREES

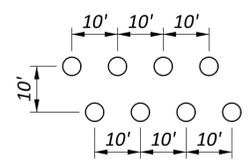
CONTRACTOR SHALL FURNISH LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO PLANT DECIDUOUS TREES AT THE WOO-65-9.38 LOCATION AS SHOWN ON SHEET 16. PLANTING UNDER THIS SECTION SHALL BE CONTAINER GROWN PLANTS (ONE-INCH CALIPER, THREE GALLON MINIMUM FOR THE SPECIES ON THE TREE LIST BELOW), IN CONFORMANCE WITH ODOT CMS 661. ALL MATERIAL SHALL BE CONTAINERIZED NURSERY STOCK GROWN FOR A PERIOD OF ONE YEAR UNDER THE SAME CLIMATIC CONDITIONS AS EXISTS AT THE WOO-65-9.38 CULVERT SITE.

INSTALL ALL PLANT MATERIALS AFTER MARCH 15 AND BEFORE JUNE 1, OR AFTER SEPTEMBER 15 AND BEFORE NOVEMBER 30. DO NOT INSTALL PLANT MATERIALS IN FROZEN OR SATURATED SOIL CONDITIONS. ENSURE A SUFFICIENT WATER SUPPLY IS AVAILABLE TO SATISFY THE REQUIREMENTS OF THE PLANT MATERIALS AND ITEM 662, LANDSCAPING WATER. LIVE PLANT MATERIALS SHALL BE INSTALLED IMMEDIATELY UPON DELIVERY AND SHALL BE KEPT MOIST. PLANTS SHALL BE WELL DEVELOPED, HEALTHY, FREE FROM INSECTS AND DISEASES, AND POSSESS A NORMAL UNBROKEN ROOT SYSTEM. CONTAINERIZED PLANTS SHALL BE TRANSPLANTED TO THE SAME DEPTH AS ORIGINALLY GROWN. INSTALL PLANTS BY DIGGING OR DRILLING A HOLE TWICE THE DIAMETER OF THE CONTAINER, GENTLY DE-POTTING THE PLANT, PLANTING AND BACKFILLING THE HOLE WITH SOIL. BACKFILL THE SOIL INTO THE HOLE TO THE SOIL LEVEL OF THE CONTAINER TO AVOID OVER-COMPRESSING THE SOIL, AS PER THE FIGURE BELOW. THE TREES MUST BE PLANTED IN A VERTICAL POSITION. THE ROOT COLLARS SHOULD BE PLANTED SLIGHTLY ABOVE GROUND OR FLUSH WITH THE GROUND.



CONTAINER PLANTING

THE GOAL OF PLANTING IS TO REESTABLISH THE RIPARIAN PLANTING ZONES. THIS INCLUDES NOT BEING PLANTED IN LINES AND THE SPECIES SHALL BE DISTRIBUTED THROUGHOUT THE AREA, AS PER THE FIGURE BELOW. FOR SPACING PURPOSES, EACH PLANTING LOCATION IN THE FIGURE REPRESENTS ONE TREE WITH A THREE GALLON CONTAINER.



PLANTING LOCATIONS THROUGHOUT THE LANDSCAPING AREA WILL CONSIST OF NO MORE THAN 20 PERCENT OF ANY INDIVIDUAL SPECIES. TREES SHALL NOT BE PLANTED WITHIN 15 FEET OF THE ROAD.

A TOTAL OF 50 TREES SHALL BE PLANTED WITHIN THE AREAS DELINEATED ON SHEET 16.

TREE LIST	COMMON NAME:	BOTANICAL NAME:
SUGAR MAPLE		ACER SACCHARUM
PAWPAW		ASIMINA TRILOBA
BUR OAK		QUERCUS MACROCARPA
CHINQUAPIN OAK		QUERCUS MUEHLENBERGII
NORTHERN RED OAK		QUERCUS RUBRA

ITEM 661, PLANTING MISC.: 1" CALIPER, 3-GALLON CONTAINER TREE	50 EACH
ITEM 662, LANDSCAPING WATER	1250 GALLON

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05.

NOTE MOVED TO SHEET 5A

STRUCTURE REMOVED, AS PER PLAN, WOO-65-9.38

THE CONTRACTOR SHALL CAREFULLY REMOVE ALL STONES ASSOCIATED WITH THE CULVERT AND MAKE EVERY EFFORT TO MINIMIZE DAMAGE TO THE STONES DURING REMOVAL AND HANDLING. ALL REMOVED STONES NOT REQUIRED UNDER OTHER ITEMS OF WORK SHALL BE TEMPORARILY STORED WITHIN THE PROJECT LIMITS.

THE CONTRACTOR SHALL CONTACT DOUG PARRISH (419-407-9778) OF METROPARKS TOLEDO AND TOM BELCHER (419-467-1017) OF WOOD COUNTY PARK DISTRICT FOR INSPECTION AND SELECTION OF STONES. THE STONES THAT ARE SELECTED SHALL BE SAFELY TRANSPORTED TO THE LOCATIONS BELOW. THE CONTRACTOR SHALL ASSUME, FOR BIDDING PURPOSES, THAT ALL STONES REMOVED FROM THE CULVERT AND NOT REQUIRED UNDER OTHER ITEMS OF WORK WILL BE PROVIDED TO EITHER METROPARKS TOLEDO OR WOOD COUNTY PARK DISTRICT.

METROPARKS TOLEDO:
 BLUECREEK METROPARK
 7035 PROVIDENCE ST.
 WHITEHOUSE, OH

WOOD COUNTY PARK DISTRICT:
 WOOD COUNTY PARK DISTRICT HEADQUARTERS
 18729 MERCER RD.
 BOWLING GREEN, OH

AT LEAST 14 DAYS PRIOR TO STONE CULVERT REMOVAL, SUBMIT A REMOVAL PLAN FOR DEPARTMENT ACCEPTANCE THAT DETAILS HOW THE STONES WILL BE REMOVED, STORED FOR INSPECTION, LOADED FOR TRANSPORTATION, AND UNLOADED AT THE LOCATIONS LISTED ABOVE WITHOUT CAUSING DAMAGE.

COORDINATE STONE DELIVERY WITH THE CONTACTS LISTED ABOVE. THE CONTRACTOR IS RESPONSIBLE FOR SAFE DELIVERY. STONES NOT SELECTED ARE TO BE DISPOSED OF IN ACCORDANCE WITH ITEM 202.

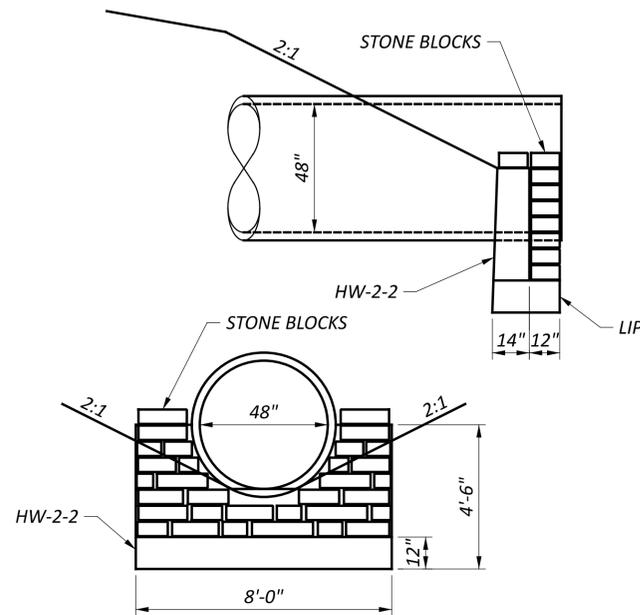
IN ADDITION TO THE REMOVAL OF THE CULVERT AT THE WOO-65-9.38 SITE, REMOVE ALL ITEMS ATTACHED TO AND ASSOCIATED WITH THE CULVERT.

PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS TO PERFORM THE WORK DESCRIBED ABOVE SHALL BE INCLUDED WITH ITEM 202 STRUCTURE REMOVED, AS PER PLAN, WOO-65-9.38.

CLASS QC1 CONCRETE, HEADWALL, AS PER PLAN

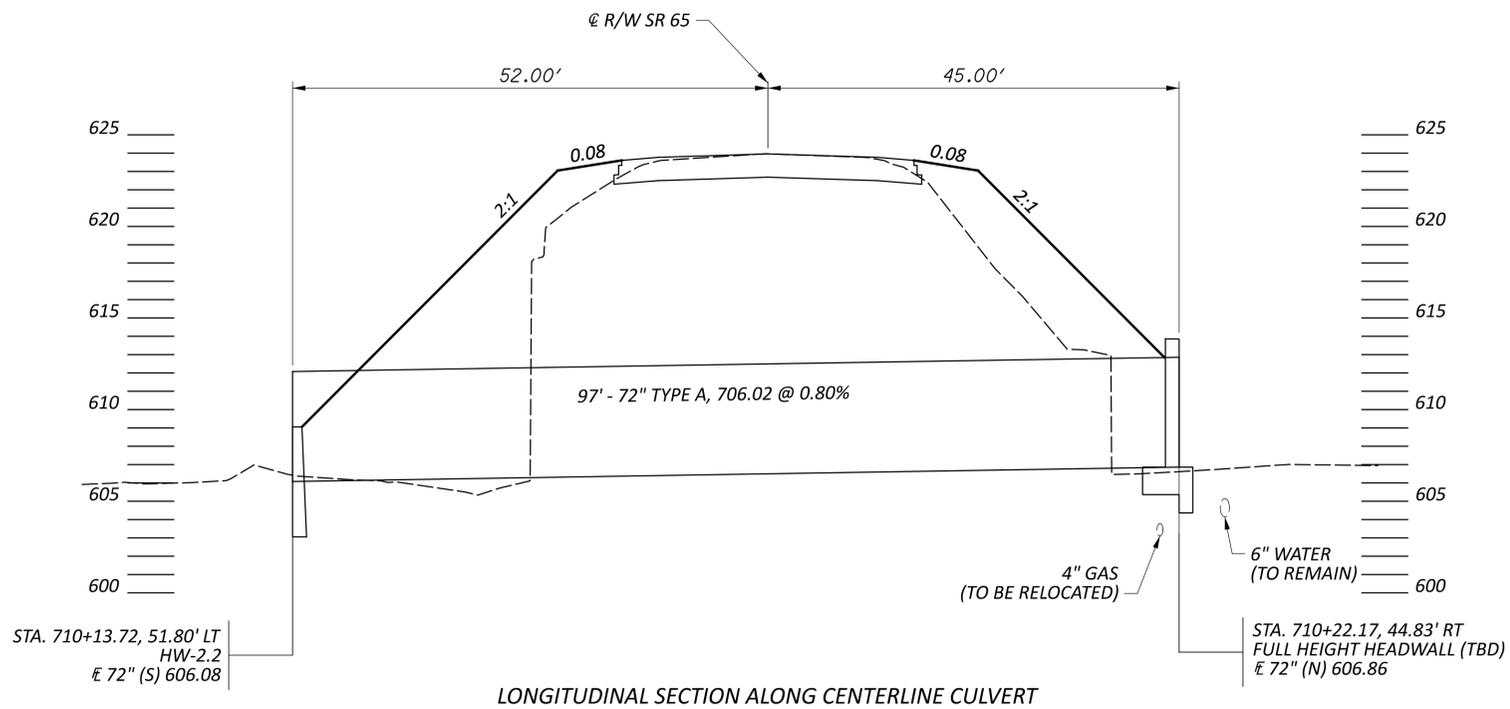
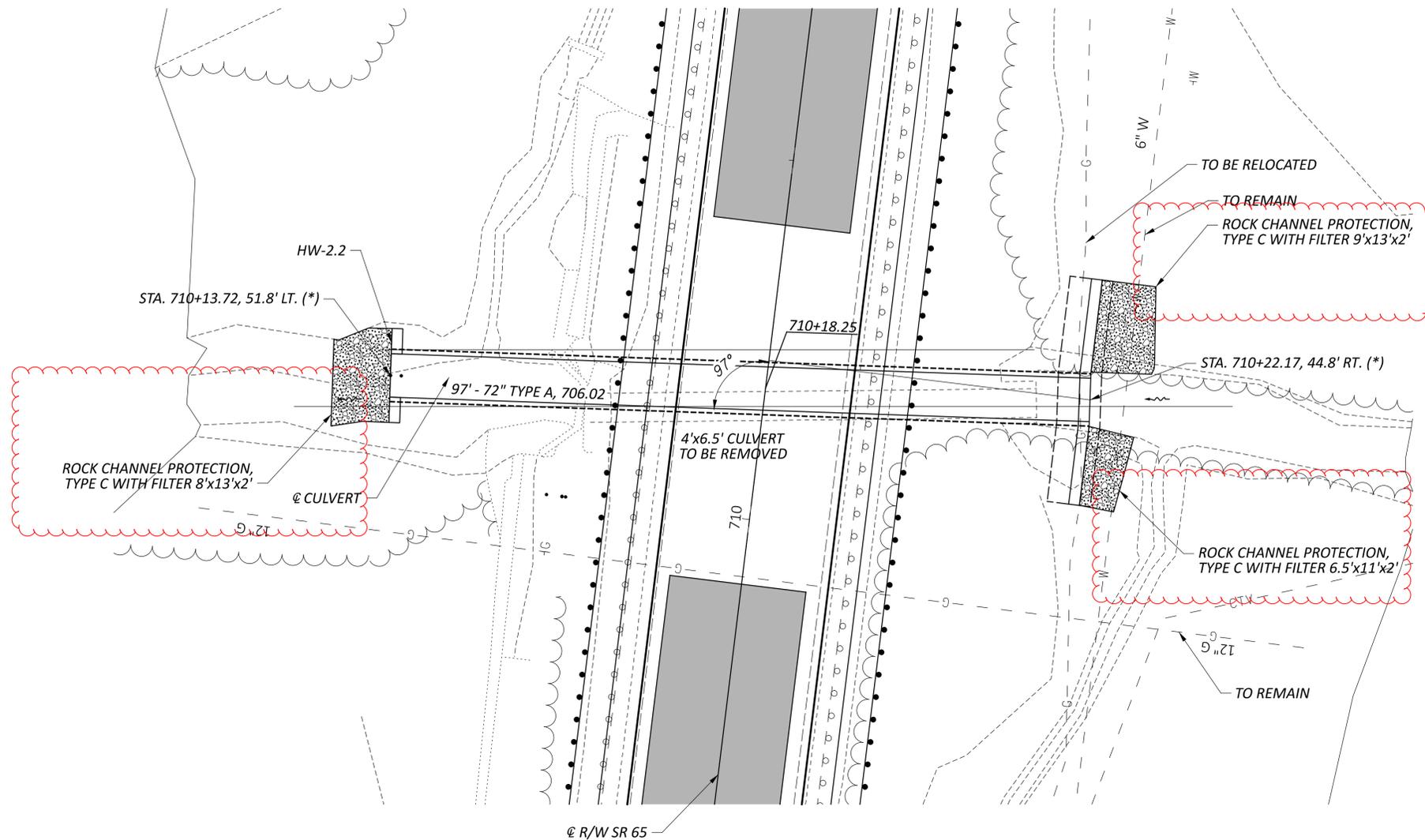
THIS ITEM SHALL CONSIST OF CONSTRUCTING THE HALF HEIGHT HEADWALL ACCORDING TO ODOT STANDARD CONSTRUCTION DRAWING HW-2.2 WITH THE ADDITION OF A 12" x 12" LIP AS SHOWN IN THE DETAILS BELOW. THE CONTRACTOR SHALL SALVAGE STONE BLOCKS FROM THE EXISTING CULVERT, POWERWASH THEM, CUT THEM TO A MAXIMUM HEIGHT AND DEPTH OF 12", AND SECURE THEM TO THE HEADWALL WITH NONSHRINK MORTAR ACCORDING TO ODOT CMS 705.22.

ALL LABOR, MATERIALS, AND EQUIPMENT NEEDED TO COMPLETE THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 511 - CLASS QC1 CONCRETE, HEADWALL, AS PER PLAN.



REF NO.	SHEET NO.	STATION TO STATION		SIDE	202	202	202	202	601	601	602	611	611	611	611	611	601	611	605	611	202	202	606	606	606	203	203	630	SPECIAL
					STRUCTURE REMOVED	CONCRETE SLOPE PROTECTION REMOVED	PIPE REMOVED, 24" AND UNDER	CATCH BASIN REMOVED	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC	ROCK CHANNEL PROTECTION, TYPE D WITH GEOTEXTILE FABRIC	CONCRETE MASONRY	12" CONDUIT, TYPE C, 707.45	15" CONDUIT, TYPE C, 707.45	72" CONDUIT, TYPE A, 706.02	CATCH BASIN, NO. 2-2B	MANHOLE, NO. 3	TIED CONCRETE BLOCK MAT, TYPE 1	PRECAST REINFORCED CONCRETE OUTLET	6" BASE PIPE UNDERDRAINS	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	GUARDRAIL REMOVED	ANCHOR ASSEMBLY REMOVED, TYPE E	GUARDRAIL, TYPE MGS	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016	ANCHOR ASSEMBLY, MGS TYPE T	EXCAVATION	EMBANKMENT	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	MAILBOX REMOVED AND RESET
		TO			LS	SY	FT	EACH	CY	CY	CY	FT	FT	FT	EACH	EACH	SY	EACH	FT	FT	FT	EACH	FT	EACH	EACH	CY	CY	EACH	EACH
D1	17	708+66.68	709+48.75	RT			58	1					82.0		1														
D2	17	709+48.12	709+49.37	RT					2.2		0.25		13.0			1													
D3	17	710+10.15	710+25.03	LT/RT	1						2.77		97.0																
D4	17	710+74.36	710+75.61	LT					2.7		0.25		14.0			1													
D5	17	710+98.12	710+99.37	RT					2.1		0.25		13.0			1													
D6	17	710+98.75	712+14.01	RT											1														
D7	17	710+75.98	712+88.80	LT			176					10.0	207.0			1													
U1	17	708+13.30	710+00.00	LT												1.8	1	188	10.0										
U2	17	708+75.00	709+48.75	RT														62	10.0										
U3	17	709+48.75	710+09.83	RT														49	10.0										
U4	17	710+21.70	710+74.98	LT														41	10.0										
U5	17	710+74.98	712+25.40	LT														138	10.0										
U6	17	710+25.87	710+98.79	RT														61	10.0										
U7	17	710+98.79	712+14.06	RT														103	10.0										
G1	17	708+50.00	711+37.50	LT																216.0	2	325.0	1	1					
G2	17	709+00.60	711+16.38	RT																210	2	137.5	2						
T1	17	711+25.00	712+30.00	LT																									
T2	45	711+20.00	712+26.50	LT					39.4																				
M1	17	712+70.70		LT																									1
R1	17	709+20.00	709+58.00	RT							12.67																		
R2	17	710+60.00	712+30.00	LT							56.67																		
R3	17	711+08.00	711+52.00	RT							14.67																		
S1	17	709+22.00		RT																									1
28		708+25.00	708+75.00																							0	9		
29		708+75.00	709+25.00																							4	94		
30		709+25.00	709+75.00																							19	225		
31		709+75.00	710+25.00																							19	391		
32		710+25.00	710+75.00																							19	387		
33		710+75.00	711+25.00																							15	283		
34		711+25.00	711+75.00																							34	32		
35		711+75.00	712+25.00																							43	16		
36		712+25.00	713+00.00																							13	7		
SUBTOTAL					1.0	84.01	234.0	1.0	46.4	23.96	3.52	10.0	445.0	97.0	2	4	1.8	1	642.0	70.0	426.0	4	462.50	3	1	166	1444	1	1
TOTALS CARRIED TO GENERAL SUMMARY					1	85	234	1	47	24	3.6	10	445	97	2	4	2	1	642	70	426	4	462.50	3	1	166	1444	1	1





(*) - THE PROPOSED LAYOUT PROVIDES THE MINIMUM CLEARANCES OF ALL PROPOSED CAST-IN-PLACE CONCRETE WORK, WHICH ARE 15' (KINDER MORGAN PIPELINE) AND 2' (NWWSD WATER LINE).

THE CONTRACTOR MAY ADJUST LOCATIONS IN ORDER TO MAINTAIN CLEARANCES, SHOULD THEY VARY FROM THE SURVEYED INFORMATION WITH APPROVAL OF THE ENGINEER.

HYDRAULIC DATA		
DRAINAGE AREA =	590 ACRES	
Q (10) =	137 CFS	V (10) = 2.6 FT/S
Q (100) =	251 CFS	V (100) = 2.2 FT/S
ORDINARY HIGH WATER MARK:	608.3 FT	
DESIGN SERVICE LIFE:	75 YEARS	
ABRASION LEVEL:	1	
pH:	8.3	

EXISTING STRUCTURE	
TYPE:	THREE SIDED CONCRETE CULVERT
SIZE:	4'± (SPAN) x 6.5'± (RISE)
SKEW:	7°00'00"±
ALIGNMENT:	TANGENT
DATE BUILT:	UNKNOWN (ORIGINAL); 1923 REHAB
CONDITION:	POOR
CFN:	1858157

PROPOSED STRUCTURE	
TYPE:	72"Ø ROUND REINFORCED CONCRETE PIPE
SKEW:	7°00'00"
ALIGNMENT:	TANGENT
CFN:	1988005

CULVERT DETAIL
 SR 65 - 13.45

DESIGN AGENCY



DESIGNER

SRC

REVIEWER

NBL 10-26-23

PROJECT ID

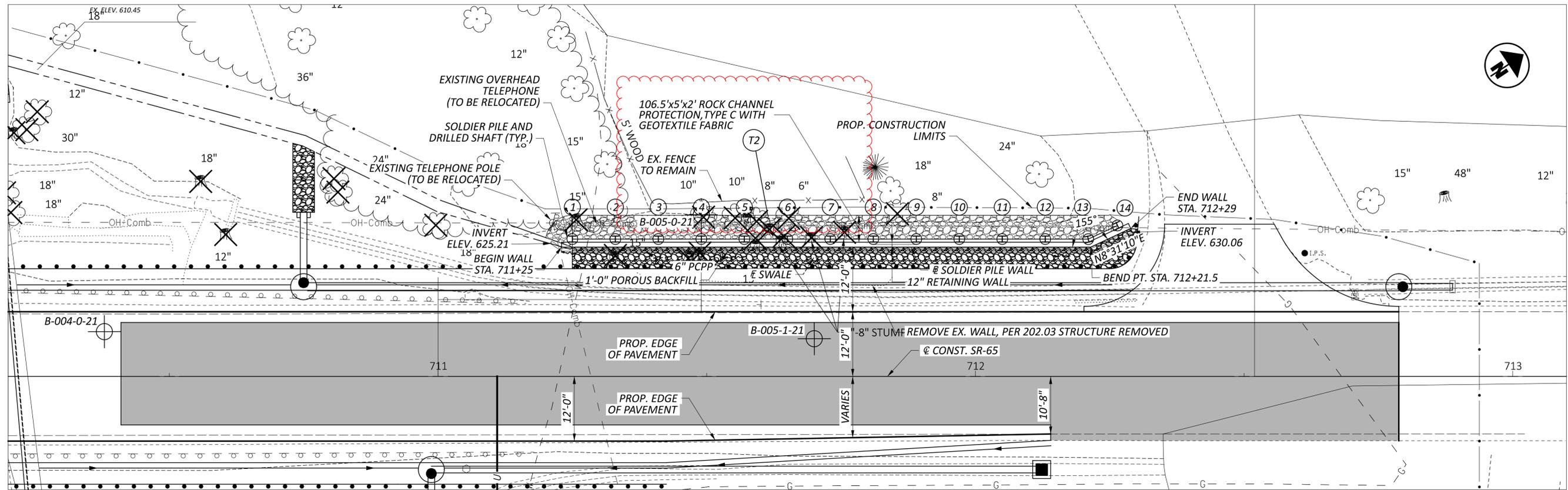
93680

SUBSET TOTAL

1 4

SHEET TOTAL

41 67

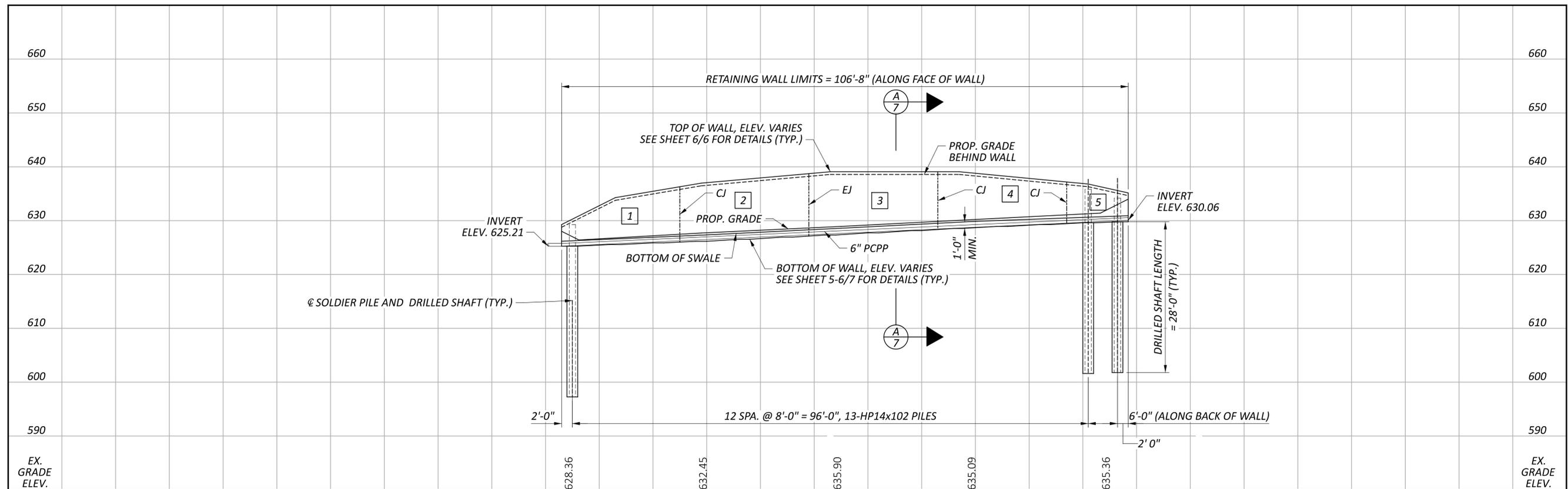


PLAN

LEGEND

SOLDIER PILE NUMBER

CAST-IN-PLACE PANEL NUMBER



PROFILE

(ALONG @ SOLDIER PILE WALL)

DESIGN AGENCY	
DGL CONSULTING ENGINEERS	
DESIGNER	
BWP	
REVIEWER	
NBL 10-26-23	
PROJECT ID	
93680	
SUBSET	TOTAL
1	8
SHEET	TOTAL
45	67