



13.45		LONGITODL.	VV05 42 1.) . ,
PORTION TO	BE IMPROVED		I	
INTERSTATE F	HIGHWAY			
FEDERAL ROU	UTES			
	<u></u>			
	OWNSHIP ROADS			
	OS			
OTTLN NOAD				

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



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

	BP-3.1
	BP-4.1
ENGINEER'S SEAL	MGS-1.1
	MGS-2.1
DGL CONSULTING ENGINEERS	MGS-5.3
DGL CONSULTING ENGINEERS	СВ-2-2В
STEVEN R.	
CHERRY II	DM-1.1
F_{-68662}	DM-1.2
STEVEN R. CHERRY II E-68662	DM-4.4
SSIONAL ENGL	
(1)1111111	HW-1.1
	HW-2.1
	HW-2.2

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

WOO-65-5.63/9.38/13.45

MIDDLETON & WASHINGTON TOWNSHIP WOOD COUNTY

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		ANDARD	SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS		
1/21/22		7/16/21			SS 800	10/20/23	WATERWAY
7/19/13					SS 832	7/21/23	PERMIT
	TC-42.20	10/18/13			SS 878	1/21/22	9/22/23
	TC-65.10	1/17/14					
1/19/18							
	MT-101.60						
	MT-105.10	1/17/20					
1/20/23							
7/17/20							
7/16/21							
1/15/16							
7/20/18							
7/15/22							
7/20/18							

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:** ESTIMATED CONTRACTOR EARTH DISTURBED AREA: NOTICE OF INTENT EARTH DISTURBED AREA: WOO-65-9.38

PROJECT EARTH DISTURBED AREA: ESTIMATED CONTRACTOR EARTH DISTURBED AREA: NOTICE OF INTENT EARTH DISTURBED AREA: WOO-65-13.45

PROJECT EARTH DISTURBED AREA: ESTIMATED CONTRACTOR EARTH DISTURBED AREA: NOTICE OF INTENT EARTH DISTURBED AREA:

0.14 ACRES 0.1 ACRES N/A (NOI NOT REQUIRED)

0.28 ACRES 0.1 ACRES N/A (NOI NOT REQUIRED)

0.68 ACRES 0.1 ACRES 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 Miller, AE

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

ack Marchbanks, PhD Director, Department of Transportation



SHEET

TITLE

UTILITIES

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

KINDER MORGAN PIPELINE

WATERVILLE OIL AND GAS COMPANY

PO BOX 832

419.878.4972

GOSHEN, IN 46527

574.534.1486 EXT 22

700 FARNSWORTH RD

WATERVILLE, OH 43566

BUCKEYE CABLEVISION 2700 OREGON RD NORTHWOOD, OH 43519 419.724.3713

TOLEDO EDISON 6099 ANGOLA RD *HOLLAND, OH 43528* 419.249.5218

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 DISTRIC 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

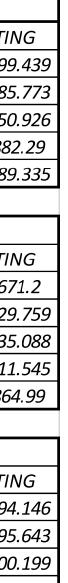
			PRIN	AARY PROJECT CONTROL WOO-65-05.63		
POINT	STATION	OFFSET	ELEV	DESCRIPTION	NORTHING	EASTIN
MN500	290+98.72	23.62	659.79	3/4"x30" REBAR W/ PROJECT CONTROL CAP	649358.502	1614199
MN501	298+14.44	28.35	659.48	3/4"x30" REBAR W/ PROJECT CONTROL CAP	649774.108	1614785
MN502	305+87.73	11.74	660.51	3/4"x30" REBAR W/ PROJECT CONTROL CAP	650302.171	1615350
BM2	299+44.08	28.22	661.01	MAG NAIL IN NW SIDE OF UTILITY POLE	649860.662	1614882
BM1	297+29.04	-20.63	659.50	CUT "X" ON CONC PAD	649755.66	1614689

POINT	STATION	OFFSET	ELEV	DESCRIPTION	NORTHING	EASTIN
MN520	494+65.75	-13.85	656.00	3/4"x30" REBAR W/ PROJECT CONTROL CAP	660807.635	1628671
MN521	496+66.63	14.90	656.32	3/4"x30" REBAR W/ PROJECT CONTROL CAP	661001.679	1628729.
MN523	503+01.49	-5.25	655.07	3/4"x30" REBAR W/ PROJECT CONTROL CAP	661599.758	1628935.
BM21	494+72.05	26.11	654.84	CUT "X" ON SW CORNER OF CATCH BASIN	660810.57	1628711.
BM20	495+91.08	166.75	657.41	RR SPIKE IN W SIDE OF UTILITY POLE	660902.87	1628864.

			PRIN	MARY 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

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312 CY



ITEM SPECIAL - MAILBOX SUPPORT 2 2 2 6 ITEM SPECIAL - MAILBOX SUPPORT 659, SOIL ANALYSIS TEST 2 2 6 ITEM SPECIAL - MAILBOX SUPPORT 659, SOIL ANALYSIS TEST 7 115 182 304 0 ITHIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX 659, SEEDING AND MULCHING 64 1031 1638 2733 5 SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN 659, COMMERCIAL FERTILIZER 0.01 0.14 0.23 0.38 ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN 659, LIME 0.01 0.22 0.34 0.57 0.57	SURVEYING PARAMETERS	SEEDING AND MULCHING					
ITTM SPECIAL - MAUBON SUPPORT 69. SOL ANALYSIS TEST 2 2 2 6 THIS WORK SHALL CONSIST OF ENRINSHING AND ERECTING MANBOX SUPPORT MAD DE MAY, SAND AND LICENNES AND AND ASSOCIATED MAD TO AND ASSOCIATED MATTER AND AND CONTONING MARDING IN AND CONTONING MAD TRADENICAS MAD AND LICENNES AND AND CONTONING MAD TRADENICAS MAD AND LICENNES AND AND CONTONING MAD TRADENICAS MAD AND LICENNES AND AND CONTONING MAD TRADENICAS MAD THE PLAN, ON OTHERWISE STABLE BE MAINING LICENS STALL BES NOTIONS DECOMPOSED CONTONING AND ASSOCIATED MATTER AND CONTONING MAD CONTONING TO TO 13.1. 659. LICENS MAD LICENSISSING SAND MAD CONTONING MAD TO TO 13.1. STELE POST SHALL BE NOMINAL PRE-SIZE 2 INCHES LD, AND CONTONING TO ASSOCIATE ON TO TO 13.1. CROSSINGS AND CONTONING NON TO TO 13.1. CROSSINGS AND CONTONING MAD TO TO 13.1. CROSSINGS AND CONTONING MAD CONTONING TO THE PRESENT ON THE PLAN. CROSSINGS AND CONTONING AND CONTONING TO THE PRESENT ON THE PLAN. ALL HARDMARE MICLIDING SUT NOT LIMITED TO PLATES, SCREWS, SUPPORT HARDMARE INST AND CRAPTICATE TO TO REASON TO THE 200 THE CONTINUE CONTONICE ON A NUMBER AND TO THE THE CONTINUE CONTONICE ON TO AND CANDER THAN THO SUBJECT TO, OR CROSS OWER ON UNDER AND CANDER SWEEP OR UNDERGRAMMED TO TO HE AS SUPPORT THE PLANS PRODUDE FOR A PROPOSED CONDUIT. SUPPORT HARDMARE INST AND CONTONE ON A SWEEP OR THE CONTINUE CONTINUE CONTINUE CONTINUE CONTINUE TO THE PLANS PROPORED CONDUCT. CROSSINGS AND CONCERT MAD THE PLANS PROPORED CONDUCT. SUPPORT HARDMARE INST AND CONTINUE TO A PROPOSED CONDUCT. CROSSINGS AND CONCERT MAD THE PLANS PROPORED CONDUCT. CROSSINGS AND CONCERT MAD THE PLANS PROPORED CONDUCT.	POSITIONING ON ODOT PROJECTS. SEE SHEET 54 FOR PROJECT CONTROL,						
HIS WORK BIALL CONSTST OF FURNISHING AND ERECTIVE MARBOX 151 152 150 273 </th <th></th> <th>SITE</th> <th>5.63</th> <th>9.38</th> <th>13.45</th> <th>TOTAL</th> <th></th>		SITE	5.63	9.38	13.45	TOTAL	
THIS WORK SHALL CONST OF FURNISHING AND ERECTIVE MAILBOX 639, SEEDING AND MULCHING 641 1.031 1.632 0.33 0	ITEM SPECIAL - MAILBOX SUPPORT	•				6 E 304 CU	ACH
UPPORTS SMALL REVAIL 0.14 0.24 0.24 0.23 0.35 OWNER-SUPPLIED MARISON AN DATACHING AN GSB, UMPER 0.34 0.24 0.23 0.35 OWNER-SUPPLIED MARISON AT LOCATIONS SPECIFIED IN THE PLAN, DOT FREMINES ESTRUCTED MARISON AT LOCATIONS SPECIFIED IN THE PLAN, DOT FREMINES ESTRUCTED MARISON AT LOCATIONS SPECIFIED IN THE PLAN, DOT FREMINES ESTRUCTED MARISON AT LOCATIONS SPECIFIED IN THE PLAN, DOT FREMINES ESTRUCTED MARISON AT LOCATIONS SPECIFIED IN THE PLAN, DOT FREMINES ESTRUCTED MARISON AT LOCATIONS SPECIFIED IN THE PLAN, DOT FREMINES ESTRUCTED MARISON AT LOCATIONS SPECIFIED IN THE PLAN, DOT FREMINES CONTROL THE REGISTIC ALL REAS OF EXPRESS DOT SMALL BE NOMINAL INFESS TO FLATES, SCREWS, BOITS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL. SEEDING AND CONTRECTIONS TO EXISTING FRE AND WITHIN THE CONSTRUCTION UMITS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS. DOTS SMALL RE NOLLDING BUT NOT LIMITED TO PLATES, SCREWS, BOITS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL. CROSSINGER AND CONNECTION TO RESELVENT THE SECONTRO MORE AND MULCHING ARE SHALL INCOMMONTE ETHER A SINGLE PROS SMALL RESCREWAND NO REAL ATTACH D BY THE MARISON MARISON AND AND AND AND AND AND AND AND AND AN	THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX		-			2733 SQ	
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WOOD POSTS SHALL BE NOMINAL A INCHES YA INCHES SOLVARE EXPOSED SOL BETWEEN THE RIGHT-OF-WAY LINES AND WITHIN OR 4 3 INCHES DIAMETER ROUND, AND CONFORM TO 710.14. EXPOSED SOL BETWEEN THE RIGHT-OF-WAY LINES AND WITHIN OF 4 3 INCHES DIAMETER ROUND, AND CONFORM TO 710.14. EXPOSED SOL BETWEEN THE RIGHT-OF WAY LINES AND WITHIN THE CONTRACT OR SEDUNG AND DIAMETER FOR READING ON SEDUNG AND MULTING ARE BASED ON THESE LINES. OUTCOMM TO ANALT DIA SOL LINITED TO PLATES, SCREWS, CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTHITES SOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIED STEEL CONNECTION TO BE SCRUERE COMMERCIAL-GRADE GALVANIED STEEL. WIERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE SCRUERE DIAMETER AND MOLICIDANE AND CAND AND MORE THAN TWO DIAMETER THER A SINGLE CONDUIT AND CONNECTION TO BE SCRUERED TO, OR CROSS OVER OR UNDER AND ESTING THE AND AND MORE THAN TWO DIAMETER THER A SINGLE SUPPORT HARDWARE SHALL ACCOMMODATE ETHER A SINGLE FIFIS DETERMINED THAT THE EVENTING TO THE EXISTING TO LAY THE PROPOSED CONDUIT. SUPPORT DUBLE MALES SCRUERY AND NEATLY ATTACHED BY FIFIS DETERMINED THAT THE EVENTING TO A SINGLE BEFORE STARTING TO LAY THE PROPOSED CONDUIT. SUPPORT, DUBLE MANDARIE MENDALITIENS, SANDER, ALL MOWARE MANDARIE MARKY TO ACCOMMODATE THER ASING BULL MANDARE FIFIS DETERMINED THAT THE EVENTING THE EXISTING THAN EXIST	OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN,		1	4	4	9 M.	GAL.
OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES LD., AND COMPORT TO ASHTO M 181. ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, DOTTS, SHALL BE COMMERCIAL-GADE GAUNANCED STEEL SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINCLE DA SINGUENTED ON A SINGUE POST. THE ADDIFTE OM A SINGUE POST. THE ADDIFTE OM A SINGUE POST. THE MAILBON SHALL BE SECUREY AND MEATLY ATACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE ADSTRUCTURE ON A SINGUE POST. THE MAILBON SHALL BE SECUREY AND MEATLY ATACHED BY THE ADSTRUCTURE SING BOAN A SINGUE POST. THE ADSTRUCTURE SING BOAN AND MARE THAN TWO DEVENSAMY TO ACCOMMODATE THE CONTRACTOR SUPPORT HARDWARE SHALL ACCOMMODATE THAR DWARE THE ADSTRUCTURE SING BOAN AND MARE TO NOT THE EXISTING THE ADSTRUCTURE SING BOAN AND MARE TO NOT THE SINGUE POST. THE MAILBON SHALL BE EXERCISED IN SUCH MULE BARENCORD A NUMBERGIS AS <tr< td=""><td></td><td>EXPOSED SOIL BETWEEN THE RIG</td><td>HT-OF-W</td><td>AY LINI</td><td>ES, AND</td><td>WITHIN</td><td></td></tr<>		EXPOSED SOIL BETWEEN THE RIG	HT-OF-W	AY LINI	ES, AND	WITHIN	
STELE LOSIS SHALL BE NOMINAL PIPE SIZE 2 INCHES LD., AND EASEMENT, QUANTITY CALCULATIONS FOR SEEDING AND SCONFORM TO ASSI'TO M 181. MULCHING ARE BASED ON THESE UMITS. ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, SOLT, AND ETC. SHALL BE COMMERCIAL-GADDE GAUANIZED STEEL. CROSSINGS AND CONCRECTONS TO EXISTING PIPES AND NOTEST SHALL BE SET PER THE FIRST PARAGRAPH OF 605.03, WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SUPPORT HARDWARE SHALL ACCOMMODATE ETHER A SINGLE SPECE ON UNITHES ON ON INTER AND GADE BEFORE STARTING TO INSTANCE BE ENCASED IN CONCRETE. SUPPORT HARDWARE SHALL ACCOMMODATE ETHER A SINGLE SPECE ON UTITIES BOTH AS TO UNE AND GRADE BEFORE STARTING TO TARE SHALL ACCOMMODATE ETHER A SINGLE PIPES ON UTITIES BOTH AS TO UNE AND GRADE BEFORE STARTING TO TARE SHALL ACCOMMODATE THE EXISTING TO A RESULTS IN A CHANGE SHALL DRESSART AT ACCOMMENT. SUPPORT THARDWARE SHALL ACCOMMODATE INTER ON OWNER THAN TWO SO BOLTS, PLATES, SMELERS, AND WASHERS) AS STARTING CONSTRUCTION OR ANY DURITON OF THE EXISTING BUTHAT TWO STARTING TO THE WIST MARKEN AND WASHES AS STARTING CONSTRUCTION OR RESULTS IN A CHANGE STARTING CONSTRUCTION OR ANY DURITON OF THE EXISTING BUTHAT THE CONTRACTOR SHALL SEXONG WAD PLACE IT ON THE CONTRACTOR SHALL SECSART TO A COMMERCIDE WIST HE OWNER, THE CONTRACTOR SHALL BE REFORED IN SUCH AND DURICE TO NOT STICK SECTION SETTING SEVER NO ROUBLEGONO UTITY F. NT THE ABSENCE OF A NEW BOX SUPPORT. THE CONTRACTOR SHALL BE KENOTING STRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WILL ON THE RESONANCE THE EXISTING SEVER OF AND UNDERGOUND UTITY F. NT THE ABSENCE OF A NEW BOX SUPPORT. THE CONTRACTOR SHALL BE MADE DIMONG THE TI							
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NOTES ENERAL J



CLEARING AND GRUBBING

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

THE CONTRACTOR SHALL BE REPONSIBLE 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 STABLIZATION. 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
W00-65-05.	63		
18"	5	0	5
W00-65-09.	38		
18"	12	0	12
W00-65-13.	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 ACCOMODATE 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.

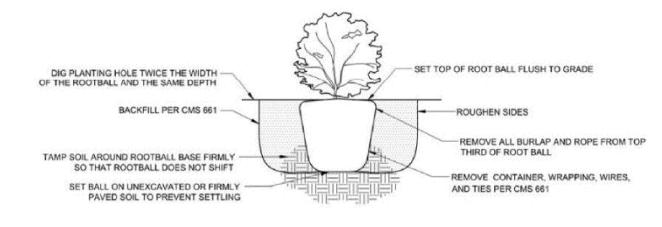
PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG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

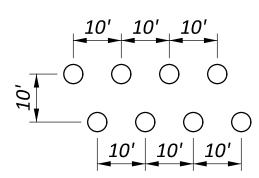
TREE LIST COMMON NAME: SUGAR MAPLE PAWPAW BUR OAK CHINQUAPIN OAK NORTHEN RED OAK

CONTAINER TREE 50 EACH

ITEM 661, PLANTING MISC.: 1" CALIPER, 3-GALLON ITEM 662, LANSCAPING WATER 1250 GALLON

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.

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.

> BOTANICAL NAME: ACER SACCHARUM ASIMINA TRILOBA QUERCUS MACROCARPA QUERCUS MUEHLENBERGII QUERCUS RUBRA

BENCHING OF FOUNDATION SLOPES

NOTE MOVED TO SHEET 5A

NOTES ENERAL **(7**)

DESIGN AGENCY
DESIGNER

SRC REVIEWER NBL 10-26-23 ROJECT ID 93680 HEET TOTAL 5 67

.45 5.63/9.38/13 W00-65-

SRC

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.

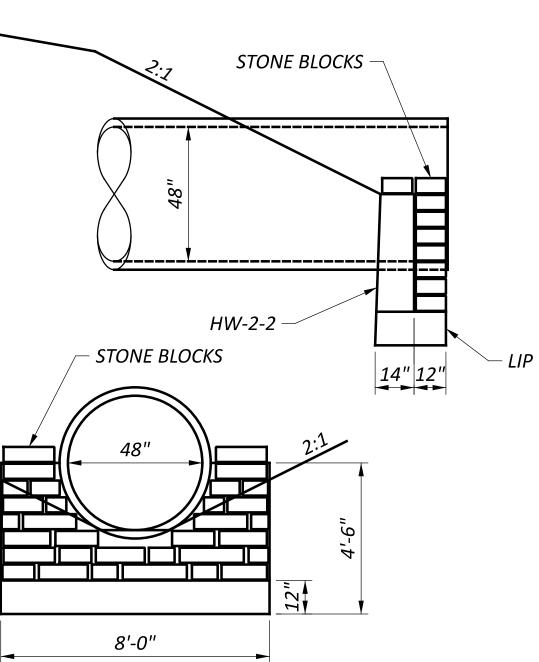
IN ADDITION TO THE REMOVAL OF THE CULVERT AT THE WOO-65-9.38 SITE, REMOVE ALL ITEMS ATTACHED TO AND ASSOCIATED WITH THE CULVERT.

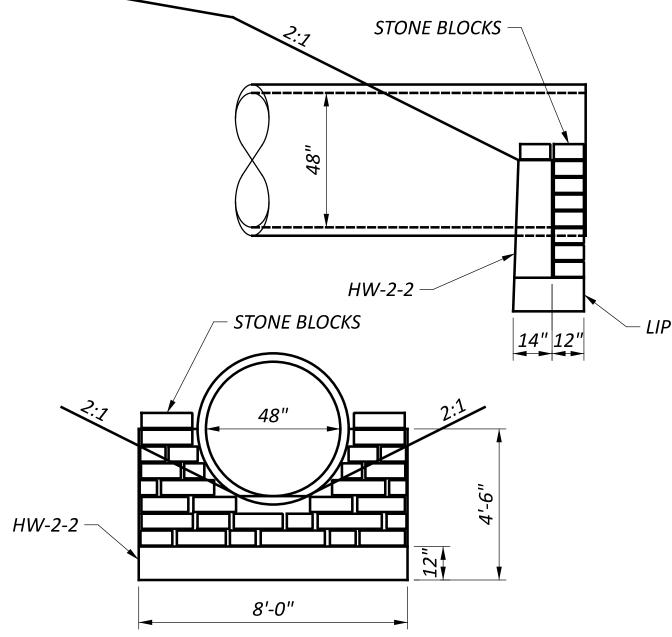
PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS TO PERFORM THE WORK DESCRIBED ABOVE SHALL BE INCLUDED WITH ITEM 202 STRUCTURE REMOVED, AS PER PLAN, WOO-65-9.38.

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.





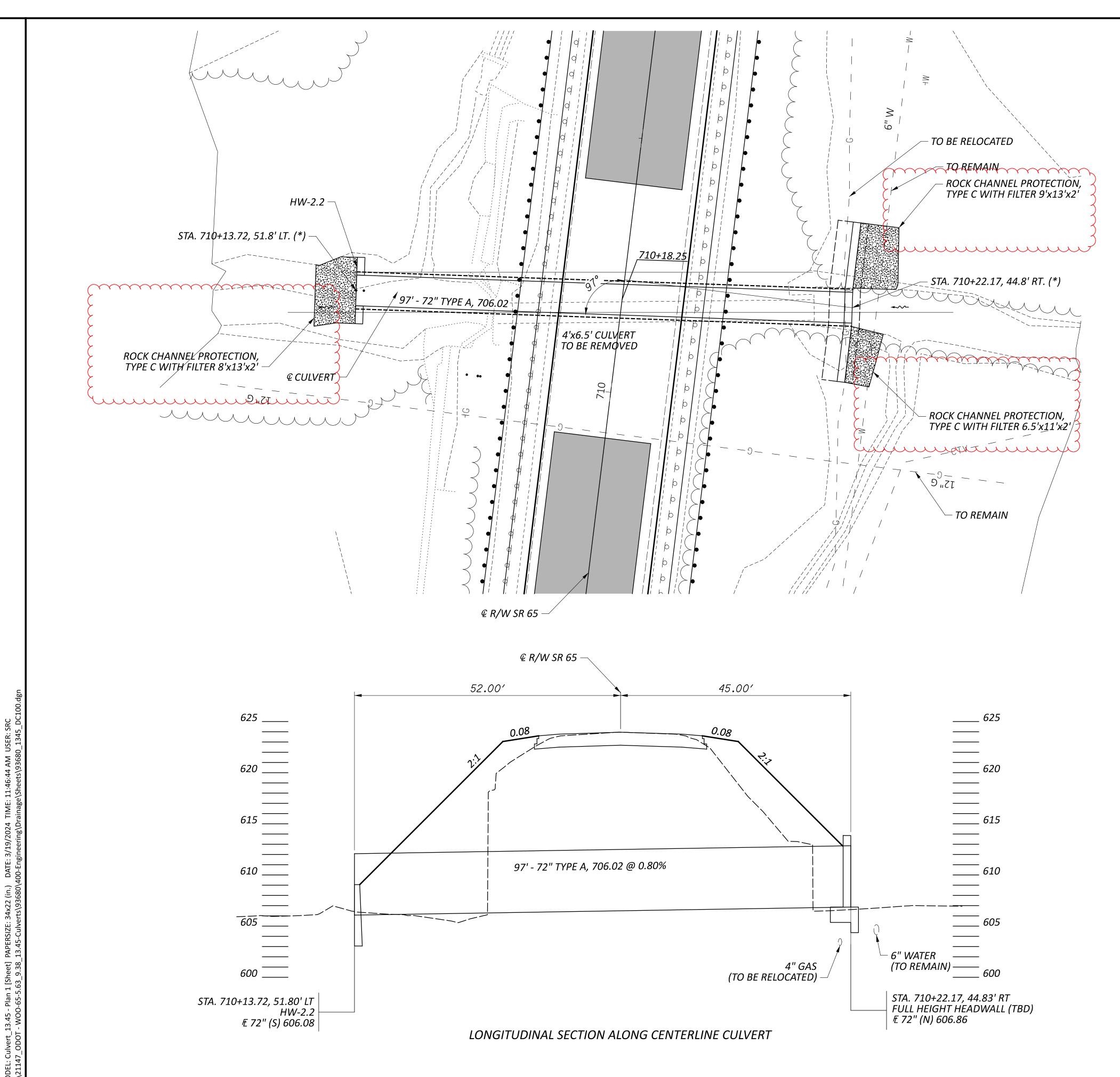
	mmmmmmmmmm
GENERAL NOTES	
DESIGN AGENCY	mmmmmmm

SHEET NUM. LS LS 1,444 1,019 462.5 $\overline{\gamma}$ 2,733 0.38 0.57 LS 1,602 25 USER: SRC oadway\Sheet 0.7 1.1 3.6 642 11:45:31 AM :ngineering\Ro WOO-65-5.63/9.38/13.45 MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 3/19/2024 TIME M:\21147_ODOT - WOO-65-5.63_9.38_13.45-Culverts\93680\400-96

	PART.			ITEM	GRAND						
	01/STR /04	02/S>2 /04	ITEM	EXT	TOTAL	UNIT					
	LS	LS	201	11000	LS						
	LJ	LS	207	11000	LS		CLEARING AND GRUBBING STRUCTURE REMOVED (WOO-65-13.45)				
	LS		202	11000	LS		STRUCTURE REMOVED, AS PER PLAN (WOO-65-9.3				
	4		202	20010	4	EACH	HEADWALL REMOVED				
	1		202	20011	1	EACH	HEADWALL REMOVED, AS PER PLAN				
 	303	264	202	23000	567	SY	PAVEMENT REMOVED				
	47	85	202	32800	85	SY	CONCRETE SLOPE PROTECTION REMOVED				
	47	234	202	35100	281	FT FT	PIPE REMOVED, 24" AND UNDER				
	100	426 4	202 202	38000 42010	526 4	FT EACH	GUARDRAIL REMOVED ANCHOR ASSEMBLY REMOVED, TYPE E				
 		1	202	12010	1	LAUN					
		1	202	58100	1	EACH	CATCH BASIN REMOVED				
	34		SPECIAL	20270000	34	FT	FILL AND PLUG EXISTING CONDUIT, 18" CMP				
	313	166	203	10000	479	CY	EXCAVATION				
	E10	312	203	10001	312	CY	EXCAVATION, AS PER PLAN				
	512	1,444	203	20000	1,956	СҮ	EMBANKMENT				
 	319	700	204	10000	1,019	SY	SUBGRADE COMPACTION				
	50	462.5	606	15050	512.5	FT	GUARDRAIL, TYPE MGS				
		3	606	26150	3	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016				
		1	606	26550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T				
		1	SPECIAL	69050350	1	EACH	MAILBOX REMOVED AND RESET				
		2	601	21050	2	cv					
	10	2	601 601	21050 32104	10	SY CY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERL ROCK CHANNEL PROTECTION, TYPE B WITH GEOTE				
	10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	601	32200	10	\sim CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTE				
	51	47	601	32204	98) CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTI				
		124	601	32304	1241	CY	ROCK CHANNEL PROTECTION, TYPE D WITH GEOTI				
	4	2	659	00100	6	EACH	SOIL ANALYSIS TEST				
	122 1,095	182 1,638	659 659	00300 10000	304 2,733	CY SY	TOPSOIL SEEDING AND MULCHING				
	0.15	0.23	659	20000	0.38	TON	COMMERCIAL FERTILIZER				
	0.23	0.34	659	31000	0.57	ACRE	LIME				
	5	4	659	35000	9	MGAL	WATER				
	10,000		832	30000	10,000	EACH	EROSION CONTROL				
		LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING				
		1,602	509	10000	1,602	LB	EPOXY COATED STEEL REINFORCEMENT				
		25	511	46210	25	СҮ	CLASS QC1 CONCRETE, RETAINING/WINGWALL INCL				
	2		511	46611	2	СҮ	CLASS QCI CONCRETE, HEADWALL, AS PER PLAN				
		31	512	10050	31	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)				
 		2	516	13600	2	SF	1" PREFORMED EXPANSION JOINT FILLER				
		8	518	21200	8	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC				
	1.8	3.6	602	20000	5.4	CY	CONCRETE MASONRY				
		642	605	14000	642	FT	6" BASE PIPE UNDERDRAINS				
		70	611	00510	70	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS				
	0	10	011	0.4000	10						
	8	10	611	04600	18	FT FT	12" CONDUIT, TYPE C, 707.45				
	73	445	611 611	06100 07200	445 73	FT FT	15" CONDUIT, TYPE C, 707.45 18" CONDUIT, TYPE A, 706.02				
	20		611	07200	20	FT	18" CONDUIT, TYPE C, 707.32				
	96		611	20900	96	FT	48" CONDUIT, TYPE B, 706.02				
	126		611	21100	126	FT	48" CONDUIT, TYPE C, 706.02				
		97	611	26000	97	FT	72" CONDUIT, TYPE A, 706.02				
	Λ	2	611	98470 99574	2	EACH	CATCH BASIN, NO. 2-2B				
	4	4	611 611	99574 99710	8	EACH EACH	MANHOLE, NO. 3 PRECAST REINFORCED CONCRETE OUTLET				
		1		00110	1		THEOROT REIN ONCED CONCRETE COTEET				
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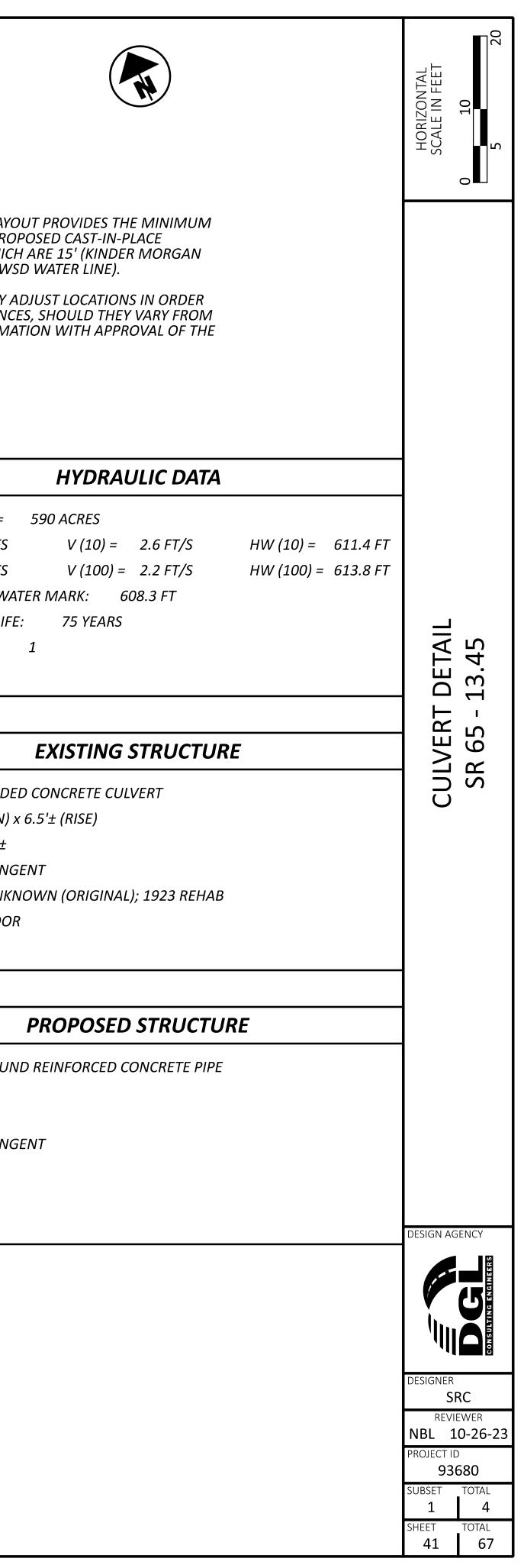
DESCRIPTION	SEE SHEET NO.	
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TEXTILE FABRIC		0 El
DRAINAGE		
CLUDING FOOTING	5A	3
		DESIGN AGENCY
		DESIGNER GJS
		REVIEWER SRC 10-26-23 PROJECT ID
		93680 SHEET TOTAL 9 67
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					202	<i>202</i> ≥	202 e=	202	109 KPE	601 , J	602	611	611	611	611	611	601 JJ	611 JLE	605	611	202	202	606	606 (606 F	203	203	630 Q	SPECIAL	
REF NO.	SHEET NO.	STATION TO	O STATION	SIDE	STRUCTURE REMOVED	CONCRETE SLOPE PROTECTION	PIPE REMOVED, 24" AND UNDE	CATCH BASIN REMOVED	CK CHANNEL PROTECTION, TY C WITH GEOTEXTILE FABRIC	ROCK CHANNEL PROTECTION, TY D WITH GEOTEXTILE FABRIC	CONCRETE MASONRY	다. 12" CONDUIT, TYPE C, 707.45	다. 15" CONDUIT, TYPE C, 707.45	국 72" CONDUIT, TYPE A, 706.02	HO CATCH BASIN, NO. 2-2B	MANHOLE, NO. 3	TIED CONCRETE BLOCK MAT, TY	PRECAST REINFORCED CONCRET	H 6" BASE PIPE UNDERDRAINS	H 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	GUARDRAIL REMOVED	ANCHOR ASSEMBLY REMOVED, TYPE E	H GUARDRAIL, TYPE MGS	Type ANCHOR ASSEMBLY, MGS TYPE ANCHOR ASSEMBLY, MGS TYPE ANCHOR ASSEMBLY, MGS TYPE	ANCHOR ASSEMBLY, MGS TYPE	S EXCAVATION	S EMBANKMENT	REMOVAL OF GROUND MOUNTE SIGN AND DISPOSAL	HAILBOX REMOVED AND RESET	
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D7 D2	17	708+66.68 709+48.12	709+48.75 709+49.37	RT RT			58		2.2		0.25		82.0 13.0			1														
D3	17	710+10.15	710+25.03	LT/RT	1				2.7		2.77		14.0	97.0		1														
D4 D5	17 17	710+74.36 710+98.12	710+75.61	LT RT					2.7 2.1		0.25		14.0 13.0			1														
D6	17	710+98.75	712+14.01	RT			470						116.0		1															
D7	17	710+75.98	712+88.80	LT			176					10.0	207.0			1														
U1 U2	17 17	708+13.30 708+75.00	710+00.00 709+48.75	LT RT													1.8	1	188 62	10.0 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 U6	17	710+74.98 710+25.87	712+25.40 710+98.79	LT RT															138 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						
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T2	45	711+20.00	712+26.50	LT					39.4																					
M1	17	712+70.70		LT																									/	
R1	17	709+20.00	709+58.00	RT		12.67																								
R2	17	710+60.00	712+30.00	LT		56.67																								
<i>R3</i>	17	711+08.00	711+52.00	RT		14.67																								
<i>S1</i>	17	709+22.00		RT																								1		
	28	708+25.00	708+75.00																							0				
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IUTALS	CARRIED) TO GENERAL SUM	ΊΜΑΚΥ		1	85	234		47	24	3.6	10	445	97	2	4	2	1	642	70	426	4	462.50	5	1	166	1444	1		



5.63/9.38/13.45 WOO-65-

ENGINEER.



(*) - 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

DRAINAGE AREA = 590 ACRES $Q(10) = 137 \, CFS$ Q(100) = 251 CFSORDINARY HIGH WATER MARK: 608.3 FT DESIGN SERVICE LIFE: ABRASION LEVEL: pH: 8.3

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

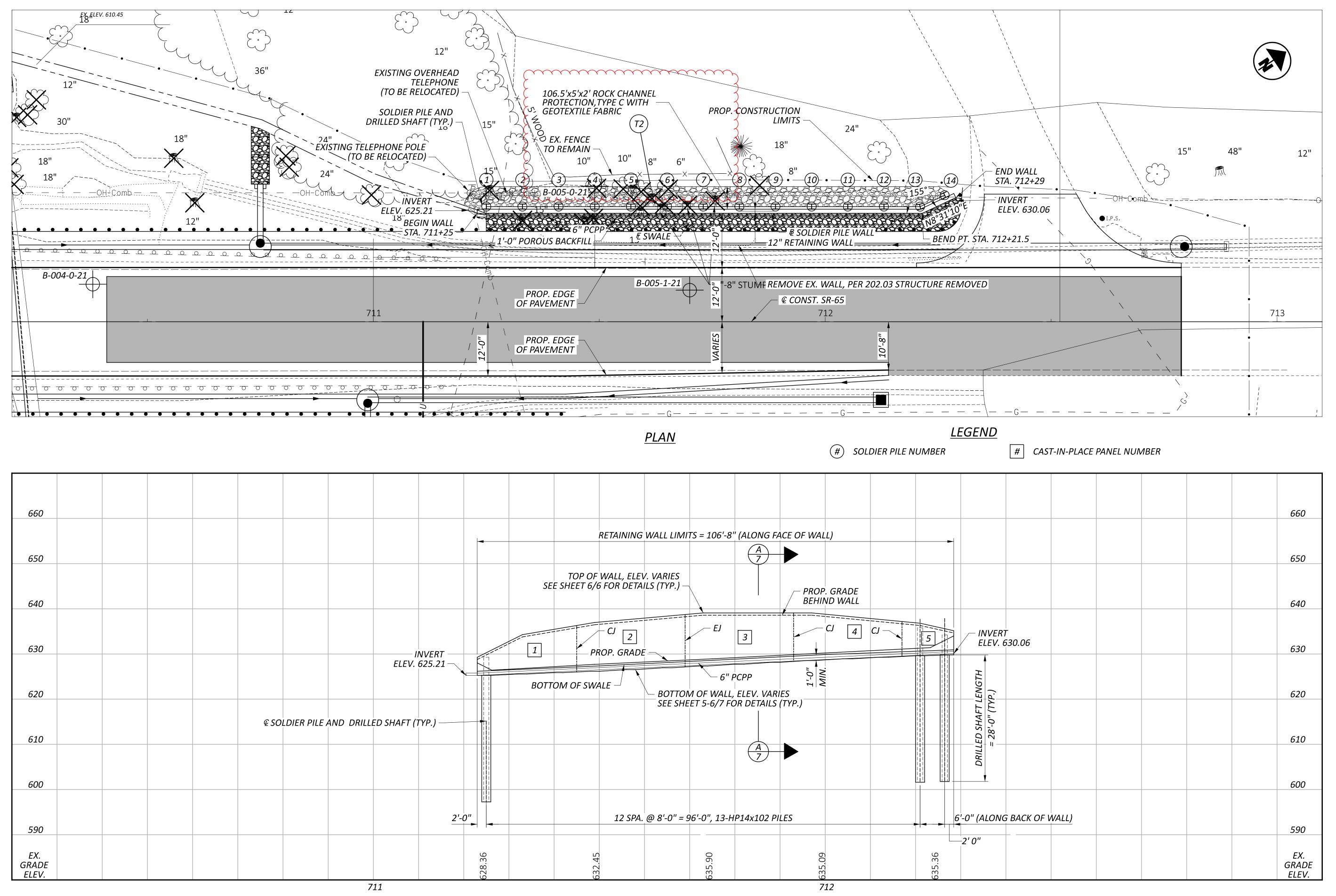
TYPE: 72"Ø ROUND REINFORCED CONCRETE PIPE

SKEW: 7°00'00" ALIGNMENT: TANGENT CFN: 1988005



SRC USER: AM Vine/ 11:47:07 t 1 MODEL: Sh

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630						
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		€ SO	LDIER PILE	AND DRILL	ED SHAFT (ТҮР.) ———
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PROFILE (ALONG ∉ SOLDIER PILE WALL)

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VALL)			590
			EX. GRADE ELEV.
	VALL)		 Image: Image:

ш PROFII AND 5 PLAN 4 13 ഗ WALL SR-65 RETAINING

DESIGN AGENCY								
DESIGNER								
BV	VP							
REVIE	EWER							
NBL 1	0-26-23							
PROJECT ID)							
	93680							
SUBSET	TOTAL							
1	8							
SHEET	TOTAL							
45	67							