

DESIGN DESIGNATION

CURRENT ADT (2024)	64,716
DESIGN YEAR ADT (2045)	86,550
DESIGN HOURLY VOLUME (2045)	9,080
DIRECTIONAL DISTRIBUTION	50%
TRUCKS (24 HOUR B&C)	8%
DESIGN SPEED	70 MPH
LEGAL SPEED	65 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
02 OTHER FREEWAY & EXPRESSWAY (URBAN)	
NHS PROJECT	YES

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED



PLAN PREPARED BY:

ARCADIS - IBI GROUP 8101 North High Street Columbus, OH 43235 tel 614 818 4900 fax 614 818 4901

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

FRA-161-15.80 NOISE ABATEMENT

CITY OF COLUMBUS AND NEW ALBANY
PLAIN TOWNSHIP
FRANKLIN COUNTY

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SOIL PROFILES
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FOR CITY OF COLUMBUS AND CITY OF NEW ALBANY SIGNATURES, SEE SEPARATE SIGNATURE PAGE

FIRM PANELS: 39049C0203K

FIRM PANELS: 39049C0204K

NO FILL WILL BE ADDED IN THE

FLOOD ZONES AE & X

FLOOD ZONES AE & X

100-YEAR FLOOD PLAIN.

BFE: 957.40

BFE: 974

MAP EFFECTIVE DATE: JUNE 17, 2008

MAP EFFECTIVE DATE: JUNE 17, 2008

		ST	ANDARE	CONSTR	RUCTION I	DRAWINGS	SUPPLEMENTA SPECIFICATION		SPECIAL PROVISIONS
BP-3.1	1/19/24	NBS-1-09	7/15/22	TC-41.10	7/19/13		800-2023 1/19	9/24	
BP-5.1	7/15/22			TC-41.20	10/18/13		821 4/20)/12	
		MT-95.30	7/19/19	TC-42.10	10/18/13		832 7/21	1/23	
DM-1.1	7/17/20	MT-95.40	7/21/23	TC-42.20	10/18/13		878 1/21	1/22	
DM-1.2	7/16/21	MT-95.45	7/21/23	TC-51.11	1/15/16		921 4/20)/12	
DM-4.1	7/17/20	MT-95.50	7/21/17	TC-61.30	7/19/19				
F-1.1	7/19/13	MT-98.10	1/17/20	HL-30.31	1/19/24				
F-3.3	7/19/13	MT-98.11	1/17/20						
F-3.4	7/19/13	MT-98.21	7/21/23	BR-1 REV.	4/03/90				
		MT-98.22	1/17/20						
MGS-1.1	7/16/21			RM-4.3	1/21/22				
MGS-2.1	1/19/18	MT-98.29	1/17/20	RM-4.5	7/21/17				
MGS-3.1	1/19/18	MT-99.20	4/19/19	RM-4.6	7/19/13				
MGS-5.3	7/15/16	MT-101.70	4/21/23						
		MT-101.75	7/21/23						

FEDERAL PROJECT NUMBER

NON-FEDERAL

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

INSTALLATION OF 8,406 FEET OF NOISE WALL AND 4,836 FEET OF 81" SINGLE SLOPE BARRIER AT VARIOUS LOCATIONS ALONG STATE ROUTE 161 BETWEEN ULRY ROAD AND US 62. THIS PROJECT SUPPLEMENTS THE FRA-161-15.80 WIDENING PROJECT.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 7.95 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.25 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 8.20 ACRES

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

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 NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Anthony C. Turowski, P.E. District 06 Deputy Director

Jack Marchbanks, PhD Director, Department of Transportation

7-08-2024 - MOVED NOTE UNDER INDEX PER COLUMBUS DIRECTION

≜ 8-12-2024 - UPDATED COORDINATES

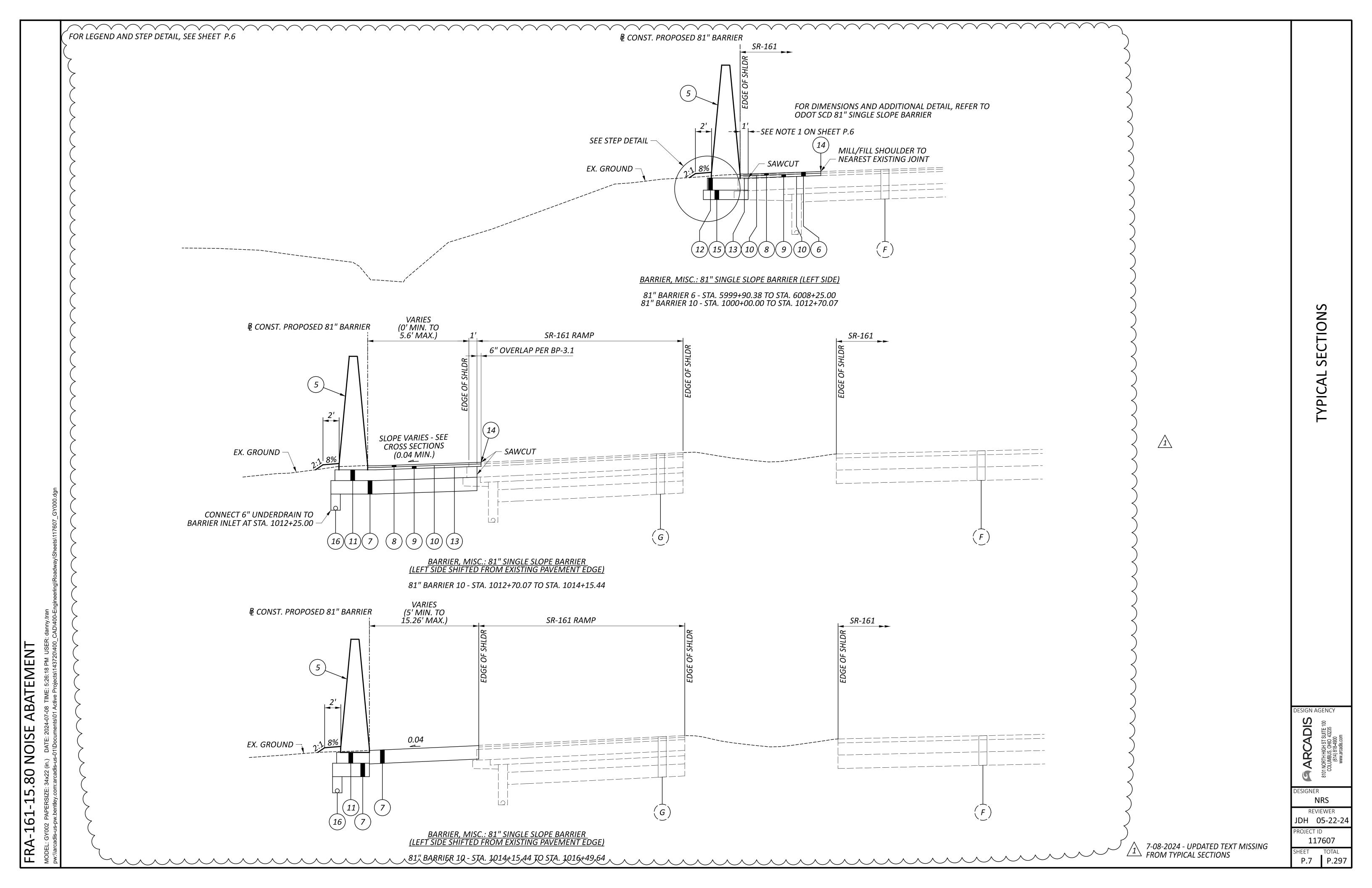
NGINEER'S SEAL	ENGINEER'S SEAL
	FOR WALL 11
JEFFREY D. HACKENBRACHT E-56364 ** ** ** ** ** ** ** ** ** ** ** ** *	RAVINDER GUPTA E-70880

ARCADIS ABOUT HIGH ST SUITE 100 COLUMBUS, OHIO 43235 (614) 818-4900 www.arcadis.com

JDH 05-22-24

3973-E SHEET TOTAL

3973-E TO P.1 P



UTILITIES LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT

COLUMBIA GAS OF OHIO 3550 JOHNNY APPLESEED COURT COLUMBUS, OH 43231 ATTN: ROB CALDWELL OFFICE: 614-818-2104 CELL: 614-370-1906 CUSTOMER SERVICE: 1-800-344-4077 DAMAGE PREVENTION: 1-866-632-6243 COLUMBIAGAS COLUMBUSENG@NISOURCE.COM RCALDWELL@NISOURCE.COM

COLUMBIA GAS OF OHIO **TRANSMISSION** 1600 EASTGATE PKWY GAHANNA, OH 43230 ATTN: ROBERT REED PHONE: 740-279-0870 ROBERT1_REED@TCENERGY.COM

TELEPHONE/CABLE/FIBER AMERICAN ELECTRIC POWER (TELECOM) 777 HOPEWELL DRIVE HEATH, OHIO 43056 ATTN: UNA BLANUSA AEP SOLUTION CENTER: 800-277-2177 OHFIBERRELOCATE@AEP.COM

AT&T - OHIO 111 N. 4TH STREET COLUMBUS, OH 43215 ATTN: DONALD G. MARSHALL, JR. CELL: 614-216-2396 AT&T REPAIR SERVICE: 888-611-4466 DAMAGE PREVENTION: 937-296-3929 G01553@ATT.COM

AT&T (TRANSMISSION) METROPOLITAN COMM. GROUP OHIO (MCG) 155 COMMERCE PARK DRIVE, SUITE 1 WESTERVILLE, OH 43082 ATTN: JAMES SCHNEIDER (PROJECT MANAGER) CELL: 440-525-4322 JAMES.SCHNEIDER@MCGFIBER.COM ATTN: WILLIAM TAGGART (FIELD ENGINEER) CELL: 614-370-5414

CHARTER COMMUNICATIONS / SPECTRUM *3760 INTERCHANGE ROAD* COLUMBUS, OH 43204 DL-MOH-CONSTRUCTION-FRELO-TEAM@CHARTER.COM AQUA OHIO - SEWER

COLUMBUS FIBERNET 1600 WALCUTT ROAD COLUMBUS. OH 43228 PHONE: 614-921-8524 ATTN: MATT BLACKSTONE MABLACKSTONE@COLUMBUSFIBER.NET CFNINFO@COLUMBUSFIBER.NET

LUMEN 250 W. OLD WILSON BRIDGE, SUITE 130 WORTHINGTON. OH 43085 ATTN: HALEY WOOD RELOCATIONS@LUMEN.COM RELOCATIONS@BRIGHTSPEED.COM HALEY.WOOD@LUMEN.COM

CROWN CASTLE FIBER 2 EASTON OVAL, SUITE 425 COLUMBUS, OH 43219 ATTN: JON TARNOWSKI OFFICE: 585-445-5813 CELL: 614-940-2462 JON.TARNOWSKI@CROWNCASTLE.COM

VERIZON BUSINESS (AKA MCI/XO) 757 COMMERCE CT. LEWIS CENTER, OH 43035 CELL: 614-593-6685 (MAURICE JONES) CELL: 614-816-0361 (BOB DILLOW) VZ.NET.COLUMBUS@VERIZON.COM BRIAN.ANSEL@VERIZON.COM TERRY.SHUMATE@VERIZONWIRELESS.COM JOHN.CORNELL@VERIZONWIRELESS.COM MICHAEL.HENNON@VERIZONWIRELESS.COM MICHAEL.BONDY@VERIZONWIRELESS.COM

SVEN.CHRISTIANSON@VERIZONWIRELESS.COM CITY OF NEW ALBANY /1\{ CITY OF COLUMBUS DEPARTMENT OF TECHNOLOGY 1355 MCKINLEY AVE. BLDG C COLUMBUS, OH 43222 PHONE: 614-645-1776 DARRYL H. JOYCE, DHJOYCE@COLUMBUS.GOV BRIAN C. MICKLÉY, BCMICKLEY@COLUMBUS.GOV

CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

CITY OF COLUMBUS DIV. OF WATER 910 DUBLIN RD. COLUMBUS, OH 43215 PHONE: 614-645-7788 AQUA OHIO - WATER 5481 BUENOS AIRES BLVD WESTERVILLE, OH 43081 ATTN: JAKE LOGAN PHONE: 614-882-6586 X50559 JELOGAN@AQUAAMERICA.COM

CITY OF NEW ALBANY **PUBLIC SERVICE** 7800 BEVELHYMER ROAD NEW ALBANY, OH 43054 PHONE: 614-855-0076 PUBLICSERVICE@NEWALBANYOHIO.ORG

ELECTRIC AMERICAN ELECTRIC POWER (DISTRIBUTION) 777 HOPEWELL DRIVE HEATH, OHIO 43056 ATTN: PAUL PAXTON PHONE: 740-348-5322 AEP SOLUTION CENTER: 800-277-2177 PTPAXTON@AEP.COM

AMERICAN ELECTRIC POWER (TRANSMISSION) 8600 SMITHS MILL ROAD NEW ALBANY, OH 43054 ATTN: MICHAEL CARR PHONE: 380-205-5072 TL PUBLICPROJECTS@AEP.COM

CITY OF COLUMBUS **DIVISION OF POWER** 3500 INDIANOLA AVE. COLUMBUS, OH 43214 ATTN: CHARLES HORNER PHONE: 614-645-7569 DISPATCH CENTER: 614-645-7627 CRHORNER@COLUMBUS.GOV

<u>SANITARY & STORMWATER:</u> CITY OF COLUMBUS DPU **DIVISION OF SEWERAGE & DRAINAGE** *1250 FAIRWOOD AVENUE* COLUMBUS. OH 43206 PHONE: 614-645-7102

5481 BUENOS AIRES BLVD. WESTERVILLE, OH 43081 ATTN: JAKE LOGAN PHONE: 614-882-6586 X50559 JELOGAN@AQUAAMERICA.COM

CITY OF NEW ALBANY **PUBLIC SERVICE** 7800 BEVELHYMER ROAD NEW ALBANY, OH 43054 PHONE: 614-855-0076 PUBLICSERVICE@NEWALBANYOHIO.ORG

ITS/CTSS/TRAFFIC ODOT CENTRAL OFFICE ITS 929 EASTWIND DRIVE *SUITE 201* WESTERVILLE, OH 43081 ATTN: EVAN KRAUS PHONE: 614-948-0537 EVAN.KRAUS@SAM.BIZ

CITY OF COLUMBUS TRAFFIC SIGNALS 1820 E. 17TH AVENUE COLUMBUS, OH 43219 ATTN: BRAD HEGWOOD PHONE: 614-560-0839 BDHEGWOOD@COLUMBUS.GOV

ODOT DISTRICT 6 TRAFFIC 400 E. WILLIAM STREET DELAWARE, OH 43015 PHONE: 740-833-8000 ATTN: TROY BRYANT

PUBLIC SERVICE 7800 BEVELHYMER ROAD NEW ALBANY, OH 43054 PHONE: 614-855-0076 PUBLICSERVICE@NEWALBANYOHIO.ORG

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET P.2-P.5 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION. USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

ODOT VRS POSITIONING METHOD: MONUMENT TYPE: CLASS A

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: GEOID:

ORIGIN OF COORDINATE SYSTEM:

HORIZONTAL POSITIONING

REFERENCE FRAME: **ELLIPSOID:** MAP PROJECTION: COORDINATE SYSTEM:

LAMBERT CONFORMAL CONIC FRANKLIN COUNTY LDP **COMBINED FACTOR SCALE:** 1.00000000

NAD83 (2011)

NAVD88

GRS80

0,0

GEOID 18

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED

UNITS ARE IN INTERNATIONAL FT (ft).

MONUMENTS IN ACCORDANCE WITH CMS 623.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

ITEM 524 - DRILLED SHAFTS

FOLLOW STANDARD DRAWING NBS-1-09 AND THE DETAILS OF THESE PLANS.

PAYMENT FOR THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE FOOT FOR ITEM 606 - SPECIAL - NOISE BARRIER (REFLECTIVE) UNLESS OTHERWISE NOTED, AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 606 - SPECIAL - NOISE BARRIER (REFLECTIVE)

THIS ITEM WILL BE USED TO INSTALL REFLECTIVE FIBERGLASS NOISE PANELS. SEE SHEET P.217 FOR COLOR, TEXTURE, AND LOCATION OF INSTALLATION.

NOISE WALL CONSTRUCTION SHALL ADHERE TO NBS-1-09.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE FOOT FOR ITEM 606 - SPECIAL - NOISE BARRIER (REFLECTIVE) UNLESS OTHERWISE NOTED, AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 607 - FENCE, MISC.: TEMPORARY FENCE

INSTALL TEMPORARY FENCE WHEN THE TIME BETWEEN THE REMOVAL OF THE EXISTING FENCE AND INSTALLATION OF THE PROPOSED FENCE OR NOISE BARRIER WILL EXCEED ONE DAY. INSTALL THIS FENCE IMMEDIATELY AFTER THE EXISTING FENCE IS REMOVED. THE TEMPORARY FENCE SHALL BE A WOOD SNOW FENCE, PLASTIC NYLON CONSTRUCTION FENCE OR EXISTING FENCE FABRIC MOUNTED ON DRIVEN POSTS. FOR EACH NOISE BARRIER SECTION, DO NOT REMOVE THE EXISTING FENCE EARLIER THAN 3 MONTHS PRIOR TO THE COMPLETED INSTALLATION OF THE NOISE BARRIER PANELS.

THE DEPARTMENT WILL PAY FOR FURNISHING, ERECTING, MAINTAINING, AND REMOVING TEMPORARY FENCE UNDER ITEM 607 - FENCE, MISC.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY: 4,202 FT ITEM 607 - FENCE, MISC.: TEMPORARY FENCE

ITEM SPECIAL - SURVEY CONTROL VERIFICATION

THE CONTRACTOR SHALL PERFORM THIS WORK TO VERIFY THE PROVIDED SURVEY CONTROL. THE CONTRACTOR WILL PERFORM THE VERIFICATION USING ONE OF THE TWO METHODS BELOW DEPENDENT UPON THE CONTRACTOR'S CHOSEN MEANS OF SURVEY CONTROL TO BE USED ON THE PROJECT. THE WORK SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN OHIO LICENSED SURVEYOR.

1) IF USING GPS DEVICES TO ESTABLISH AND OR PROVIDE SUPPLEMENTAL HORIZONTAL AND VERTICAL SURVEY CONTROL:

- A. LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT.
- B. PERFORM A SITE CALIBRATION UTILIZING THE AVAILABLE HORIZONTAL AND VERTICAL CONTROL POINTS PROVIDED IN THE PLAN.
- C. PROVIDE A REPORT, SIGNED BY AN OHIO LICENSED SURVEYOR, TO THE PROJECT ENGINEER COMPARING THE OBSERVED DATA TO THE PLAN DATA ALONG WITH A NARRATIVE DETAILING ANY DISCREPANCIES FOUND.

2) IF USING CONVENTIONAL SURVEY INSTRUMENTATION TO ESTABLISH AND OR PROVIDE SUPPLEMENTAL HORIZONTAL AND VERTICAL SURVEY **CONTROL:**

- A. LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT.
- B. LOCATE AND OBSERVE ANGLE AND DISTANCE TO ALL AVAILABLE HORIZONTAL CONTROL POINTS PROVIDED IN THE PLAN.
- C. PROVIDE A REPORT, SIGNED BY AN OHIO LICENSED SURVEYOR, TO THE PROJECT ENGINEER COMPARING THE OBSERVED DATA TO THE PLAN DATA ALONG WITH A NARRATIVE DETAILING ANY DISCREPANCIES FOUND.

ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID ITEM.

A LUMP SUM QUANTITY FOR ITEM SPECIAL - SURVEY CONTROL VERIFICATION HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THE WORK DESCRIBED ABOVE.

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

THE 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. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

/**1**\ 7-08-2024 - ADDED UTILITY COMPANY AND GENERAL NOTE **/2**\ 8-12-2024 - ADDED TEMPORARY FENCE NOTE AND REMOVED SEEDING/MULCHING FROM NOISE BARRIER NOTE

REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

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

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.

SEEDING AND MULCHING

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

659, SOIL ANALYSIS TEST 1 EACH 659, TOPSOIL 887 CU. YD. 7985 SQ. YD. 659, SEEDING AND MULCHING 659, REPAIR SEEDING AND MULCHING 400 SQ. YD. 400 SQ. YD. 659, INTER-SEEDING 659, COMMERCIAL FERTILIZER 1.08 TON 659, LIME 1.65 ACRES 659, WATER 45 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 AND HAVE BEEN DETERMINED USING CAD GENERATED AREAS. FOR AREAS ADJACENT TO A RESIDENTIAL PROPERTY, USE CMS 659 LAWN MIXTURE.

CLEARING AND GRUBBING, AS PER PLAN

THIS LUMP SUM ITEM SHALL BE USED TO CLEAR BRUSH AND THE NEAT TRIMMING AND/OR REMOVAL OF TREES IN CONFLICT WITH THE PROPOSED NOISE WALL LOCATIONS. TREES SCHEDULED TO BE TRIMMED OR REMOVED SHALL BE MARKED AND APPROVED BY THE PROJECT ENGINEER PRIOR TO THE WORK BEING PERFORMED.

ON THE FREEWAY SIDE OF THE NOISE WALL, THE CONTRACTOR SHALL PERFORM CLEARING AND GRUBBING IN THE AREA BETWEEN THE FACE OF THE NOISE WALL AND THE EDGE OF SHOULDER OF SR-161. THIS WORK AREA SHALL BE USED BY THE CONTRACTOR'S EQUIPMENT TO PERFORM WORK NECESSARY TO INSTALL THE NOISE WALL.

FOR CLARIFICATION, TREES SHALL BE INTERPRETED AS ANY GROWTH WITH A TRUNK DIAMETER OF AT LEAST THREE (3) INCHES.

IN THE AREA BETWEEN THE BACK OF THE NOISE WALL AND EXISTING FENCE, WHERE THE FENCE IS TO BE REMOVED, AND THE ADJOINING PROPERTY IS RESIDENTIAL, THE AREA SHALL BE RESTORED TO A STATE COMPARABLE TO THE ADJOINING PROPERTY.

AS-BUILT DRAWINGS

PROVIDE AS-BUILT DRAWINGS FOR UNDERDRAIN OUTLETS AND VEGETATED FILTER STRIPS THAT INCLUDE S.R. 161 STATION AND OFFSET AND LATITUDE AND LONGITUDE.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 203, 611, 659, AND 670 ITEMS.

ARCADIS

ESIGN AGENCY

ESIGNER JMK REVIEWER IDH 05-22-24

ROJECT ID 117607

P.9 P.297

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS OR AGGREGATE DRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE. UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 601, TIED CONCRETE BLOCK MAT, TYPE 1	<u>10</u> SQ. YD.
ITEM 605, AGGREGATE DRAINS	<u>50</u> FT.
ITEM 611, 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	<u>25</u> FT.
ITEM 611, PRECAST REINFORCED CONCRETE OUTLET	<u>5</u> EACH
ITEM 605, 6" UNCLASSIFIED PIPE UNDERDRAINS	<u>50</u> FT.

SPECIFIC SERVICE AND TOURIST-ORIENTED DIRECTIONAL SIGNS REMOVAL AND RELOCATION

PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT KEVIN MCDERMOTT AT OHIO LOGOS, INC. AT (800) 860-5646 TO COORDINATE THE REMOVAL AND RELOCATION OF THE SPECIFIC SERVICE SIGNS (LOGO) AND TOURIST-ORIENTED DIRECTIONAL SIGNS (TODS) LOCATED NEAR STA. 2238+00, AS SHOWN ON PLAN SHEET P.48. OHIO LOGOS, INC. WILL RELOCATE THE SIGN UPON COMPLETION OF CONSTRUCTION.

ITEM 203 - ROADWAY, MISC.: TEMPORARY OVER-STEEPENED FILL TEMPORARY OVER-STEEPENED FILL WILL BE NEEDED TO CONSTRUCT PROPOSED BENCHING IN CERTAIN AREAS, AS SHOWN ON THE CROSS SECTIONS. TEMPORARY OVER-STEEPENED FILL SHALL BE CONSTRUCTED AS SET FORTH IN THE GEOTECHNICAL DESIGN MANUAL AND SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 203, ROADWAY, MISC.: TEMPORARY OVER-STEEPENED FILL.

ITEM 606 - IMPACT ATTENUATOR, TYPE 2 (UNIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE TYPE 2 IMPACT ATTENUATORS AS LISTED ON THE OFFICE OF ROADWAY ENGINEERING'S WEB PAGE (REFER TO THE POSTED SHOP DRAWINGS FOR THE MOST CURRENT APPROVED PRODUCT MODELS). WHEN BI-DIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, IMPACT ATTENUATOR, TYPE 2 (UNIDIRECTIONAL), EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS/BACKSTOPS, TRANSITIONS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

ITEM 630 - OVERHEAD SIGN SUPPORT, INSTALLATION ONLY, AS PER PLAN

THIS ITEM SHALL CONSIST OF THE INSTALLATION OF A SIGN SUPPORT, S-4, ON A NEW FOUNDATION. THE CONTRACTOR SHALL PICK UP FROM ODOT'S MAINTENANCE FACILITY AT 4730 E. DUBLIN GRANVILLE ROAD WESTERVILLE OHIO 43081 THE PROPOSED OVERHEAD SIGN SUPPORT TO BE INSTALLED AT THE LOCATION SHOWN IN THE PLANS. THE SIGN SUPPORT (TYPE TC-12.31, DESIGN 10) SHALL BE INSTALLED ON A NEW SIGN SUPPORT FOUNDATION. THE SIZE OF THE PROPOSED BOLT CIRCLE ON THE SIGN SUPPORT SHALL BE VERIFIED FOR COMPATABILITY PRIOR TO INSTALLATION ON THE SIGN FOUNDATION. THIS ITEM ALSO INCLUDES PICK UP AND INSTALLATION OF THE OVERHEAD SIGN ONTO THE SUPPORT.

PAYMENT FOR ALL OF THE ABOVE WORK SHALL BE INCIDENTAL TO THE UNIT BID PRICE FOR ITEM 630, OVERHEAD SIGN SUPPORT, INSTALLATION ONLY, AS PER PLAN AND SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO INSTALL THE ITEM.

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 (MASH 2016), 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.

ITEM 633 - CONTROLLER WORK PAD, AS PER PLAN

IF NECESSARY, THE CONTRACTOR SHALL REPAIR THE CONCRETE WORK PAD LOCATED AT SR-161 STA. 2219+37.32, OFFSET 90.38' LT / NOISE WALL 9 STA. 900+76.32, OFFSET 12.62' RT (SHEET P.44) IF DAMAGED DURING THE INSTALLATION OF THE NOISE WALL AND DRILLED SHAFTS. IF NECESSARY, THE CONTRACTOR SHALL GRADE THE SURROUNDING AREA SLIGHTLY IN ORDER TO INSTALL A LEVEL WORK PAD AND RESTORE SITE CONDITIONS AS APPROVED BY THE PROJECT ENGINEER. PAYMENT FOR ALL OF THE ABOVE WORK SHALL BE INCIDENTAL TO THE UNIT BID PRICE FOR ITEM 633, CONTROLLER WORK PAD, AS PER PLAN AND SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO CONSTRUCT THE ITEM.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY: ITEM 633, CONTROLLER WORK PAD, AS PER PLAN 1 EACH

ITEM 690 - SPECIAL - UTILITY TEST HOLE (COLUMBIA GAS)

THE CONTRACTOR SHALL BE REQUIRED TO CONFIRM (SUE LEVEL QUALITY A) THE **FOLLOWING EXISTING UTILITY LOCATIONS:**

- 1. WALL 8 AT APPROXIMATE STA. 817+88 (SEE SHEET P.43)
- 2. WALL 15 AT APPROXIMATE STA. 1501+78 (SEE SHEET P.58)

THE FOLLOWING PROVISIONS MUST BE FOLLOWED:

- 1. THE SUE COMPANY UTILIZED BY THE CONTRACTOR SHALL BE REQUIRED TO BE PRE-QUALIFIED WITH THE ODOT.
- 2. THE SUE LOCATES SHALL BE PERFOMED PRIOR TO ORDERING WALL PANELS BETWEEN DRILLED SHAFT 75 TO 79 (WALL 8) AND DRILLED SHAFT 8 TO 13 (WALL 15). 3. THE SUE LOCATE CONFIRMATION DATA SHALL BE PROVIDED TO ODOT 21 DAYS PRIOR TO ORDERING MATERIALS AND COMMENCING WORK.
- 4. ALL REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY AND THE OHIO UTILITY PROTECTION SERVICES MUST BE FOLLOWED DURING THE LOCATION PROCESS. 5. REFER TO THE PROJECT UTILITY NOTE FOR PRELIMINARY LOCATE INFORMATION AT THESE LOCATIONS.

ALL LABOR, MATERIAL, AND INCIDENTALS FOR THE ABOVE WORK SHALL BE PAID FOR EACH LOCATE BY ITEM 690 SPECIAL, UTILITY TEST HOLE (COLUMBIA GAS). A TOTAL OF 2 LOCATES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

VEGETATED FILTER STRIP

THIS PLAN UTILIZES VEGETATED FILTER STRIPS FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 - SODDING OR ITEM 659 - SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AND ITEM 670 - SLOPE EROSION PROTECTION TO ALL DISTURBED AREAS DESIGNATED AS VEGETATED FILTER STRIPS, THE EDGE OF SHOULDER, AND THE FORESLOPE AS SPECIFIED IN THE PLANS. UNLESS DISTURBED DURING CONSTRUCTION, AREAS OUTSIDE OF THE CONSTRUCTION LIMITS DO NOT REQUIRE PLACEMENT OF ITEM 660 OR 659/670. TREATMENT WILL BE CLAIMED USING THE ESTABLISHED EXISTING VEGETATION.

FOR THE CITY OF COLUMBUS DIVISION OF POWER

THE DIVISION OF POWER (DOP) MAY HAVE UNDERGROUND OR OVERHEAD PRIMARY POWER. SECONDARY POWER. CONDUIT SYSTEMS AND STREET LIGHTING AT THIS WORK LOCATION. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT OUPS AT 811 OR 1-800-362-2764 FORTY EIGHT HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA.

ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOP PERSONNEL AND AT THE EXPENSE OF THE PROJECT. DOP SHALL MAKE ALL FINAL CONNECTIONS TO DOP'S EXISTING ELECTRICAL SYSTEM AT THE EXPENSE OF THE PROJECT. THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING DOP'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMSC). ANY NEW OR RE-INSTALLED UNDERGROUND STREETLIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1001.18 OF THE CMSC MANUAL. THE CONTRACTOR SHALL CONFORM TO DOP'S EXISTING STREET LIGHTING LOCKOUT/TAGOUT (LOTO) PROCEDURE, MIS-01, COPIES OF WHICH ARE AVAILABLE AT: https://www.columbus.gov/WorkArea/DownloadAsset.aspx?id=2147503200

IF ANY ELECTRIC FACILITY BELONGING TO DOP IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, THE DOP DISPATCH OFFICE SHOULD BE CONTACTED IMMEDIATELY AT (614) 645-7627. DOP SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF POWER, CITY OF COLUMBUS, OHIO.

ITEM 690 SPECIAL, UTILITY TEST HOLE (CITY OF COLUMBUS DIVISION OF WATER) THE CONTRACTOR SHALL BE REQUIRED TO CONFIRM (SUE LEVEL QUALITY A) THE FOLLOWING EXISTING UTILITY LOCATION:

1. WALL 15 AT APPROXIMATE STA. 1502+12 (SEE SHEET P.58).

THE FOLLOWING PROVISIONS MUST BE FOLLOWED:

- 1. THE SUE COMPANY UTILIZED BY THE CONTRACTOR SHALL BE REQUIRED TO BE PRE-QUALIFIED WITH THE ODOT.
- 2. THE SUE LOCATES SHALL BE PERFOMED PRIOR TO ORDERING WALL PANELS BETWEEN
- DRILLED SHAFT 8 TO 13 (WALL 15). 3. THE SUE LOCATE CONFIRMATION DATA SHALL BE PROVIDED TO ODOT 21 DAYS PRIOR
- TO ORDERING MATERIALS AND COMMENCING WORK. 4. ALL REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY AND THE OHIO UTILITY PROTECTION SERVICES MUST BE FOLLOWED DURING THE LOCATION PROCESS.
- 5. REFER TO THE PROJECT UTILITY NOTE FOR PRELIMINARY LOCATE INFORMATION AT THIS LOCATION.

ALL LABOR, MATERIAL, AND INCIDENTALS TO COMPLETE THE ABOVE WORK SHALL BE PAID FOR EACH LOCATE BY ITEM 690 SPECIAL, UTILITY TEST HOLE (CITY OF COLUMBUS DIVISION OF WATER). A TOTAL OF 1 LOCATE HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PG70-22M

LOCATE LOGITUDINAL JOINTS IN THE SURFACE COURSE SUBJECT TO THE FOLLOWING **REQUIREMENTS:**

FOR PAVEMENT SECTIONS WITH 2 LANES IN A SINGLE DIRECTION, PLACE A SINGLE COLD LOGITUDINAL JOINT BETWEEN THE 2 LANES.

FOR PAVEMENT SECTIONS WITH 3 OR 4 LANES IN A SINGLE DIRECTION, (PG 70-22M) ONLY) PLACE A SINGLE COLD LOGITUDINAL JOINT BETWEEN THE SECOND AND THIRD LANE FROM THE MEDIAN.

FOR PAVEMENT SECTIONS WITH 5 OR 6 LANES IN A SINGLE DIRECTION, (PG 70-22M) ONLY) PLACE 2 COLD LOGITUDINAL JOINTS. THE FIRST WILL BE PLACED BETWEEN THE SECOND AND THIRD LANE FROM THE MEDIAN. THE SECOND WILL BE PLACED BETWEEN THE FOURTH AND FIFTH LANE FROM THE MEDIAN.

WHEN LANES BECOME IN CONTACT WITH THE STRIPED GORE, THEY ARE CONSIDERED TO BE ON THE RAMP AND COUNTED SEPARATELY FROM THE MAINLINE.

A COLD LOGITUDINAL JOINT IS PERMITTED BETWEEN THE MAINLINE AND SHOULDER FOR THIS PROJECT. THIS INCLUDES ONE JOINT ALONG ONE OF THE TWO LINES THAT MAKE UP THE STRIPED GORE. ITEM 872 VRAM QUANTITIES DO NOT INCLUDE THE STRIPED GORE LOCATIONS AND IS NOT TO BE PLACED THERE.

CITY OF COLUMBUS DIVISION OF WATER GENERAL NOTES

THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS. 2018 EDITION AND ALL REVISIONS. INCLUDING ALL SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN, UNLESS OTHERWISE NOTED.

ALL WATER MAIN MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF WATER. ALL CITY OF COLUMBUS, DIVISION OF WATER STANDARD DRAWINGS SHALL APPLY TO THE PROJECT, UNLESS OTHERWISE NOTED.

FOR ANY EMERGENCIES INVOLVING THE WATER DISTRIBUTION SYSTEM, PLEASE CONTACT THE DIVISION OF WATER DISTRIBUTION MAINTENANCE OFFICE AT 614-645-7788.

ALL BRASS FITTINGS ASSOCIATED WITH WATER WORK, INCLUDING REPAIRS TO THE EXISTING SYSTEM, SHALL CONFORM TO THE REVISED ALLOWABLE LEAD EXTRACTION LIMIT PER THE UPDATED NSF/ANSI 61 STANDARD. THE DIVISION OF WATER'S APPROVED MATERIALS LIST HAS BEEN UPDATED TO REFLECT THIS REQUIREMENT.

IT SHALL BE UNLAWFUL FOR ANY PERSON TO PERFORM ANY WORK ON CITY OF COLUMBUS WATER MAIN SYSTEMS WITHOUT FIRST SECURING LICENSE TO ENGAGE IN SUCH WORK, AS INDICATED IN COLUMBUS CITY CODE SECTION 1103.02 AND 1103.06. THIS WORK INCLUDES ANY ATTACHMENTS, ADDITIONS TO OR ALTERATIONS IN ANY CITY SERVICE PIPE OR APPURTENANCES (INCLUDING WATER SERVICE LINES AND TAPS). THIS REQUIREMENT MAY BE MET BY UTILIZATION OF A SUBCONTRACTOR WHO HOLDS A CITY OF COLUMBUS WATER CONTRACTOR LICENSE OR A COMBINED WATER/SEWER CONTRACTOR LICENSE TO PERFORM THIS WORK. UTILIZATION OF A SUBCONTRACTOR MUST MEET THE LICENSING REQUIREMENTS OF CITY OF COLUMBUS BUILDING CODE, IN PARTICULAR SECTION 4114.119 AND 4114.529.

NO PERSON SHALL BEGIN CONSTRUCTION OR INSTALLATION OF A PUBLIC WATER MAIN UNTIL PLANS HAVE BEEN APPROVED BY THE STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA).

THE CONTRACTOR SHALL OBTAIN THE PROPER HYDRANT PERMIT(S), AND PAY ANY APPLICABLE FEES, FOR ANY APPROVED HYDRANT USAGE DEEMED NECESSARY FOR WORK UNDER THIS IMPROVEMENT. PERMITS MAY BE OBTAINED THROUGH THE DIVISION OF WATER PERMIT OFFICE (645-7330). THE CONTRACTOR SHALL ADHERE TO ALL RULES & REGULATIONS GOVERNING SAID PERMIT AND MUST HAVE THE ORIGINAL PERMIT ON SITE ANYTIME IN WHICH THE HYDRANT IS IN USE. PERMITS MAY BE OBTAINED BY ACCESSING HTTP://PORTAL.COLUMBUS.GOV/PERMITS/. COST TO BE INCLUDED IN THE VARIOUS BID ITEMS.

WHERE NEW CONDUIT IS PROPOSED TO CROSS AN EXISTING OR PROPOSED WATER MAIN OR WATER TAP/SERVICE LINE, A MINIMUM OF 12-INCHES OF VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE CONDUIT AND THE WATER MAIN OR TAP/SERVICE LINE. A MINIMUM OF 3-FEET OF HORIZONTAL CLEARANCE (OUT TO OUT) IS REQUIRED AT LOCATIONS WHERE THE CONDUIT IS PARALLEL TO THE WATER MAIN AND AT LOCATIONS OF WATER MAIN THRUST BLOCKS.

A MINIMUM OF 3 FEET OF HORIZONTAL CLEARANCE (OUT TO OUT) SHALL BE MAINTAINED BETWEEN ALL EXISTING WATER MAINS AND FOUNDATIONS FOR POLES, PULL BOXES, PUSH BUTTON PEDESTALS, AND ANY OTHER MISCELLANEOUS ELECTRICAL STRUCTURE.

CITY OF COLUMBUS DEPARTMENT OF TECHNOLOGY FIBER WORK IF THE PROJECT INCLUDES ANY FIBER OPTIC CABLE INSTALLATION - OR MAINTENANCE - THE FIBER WORK MUST ADHERE TO THE DEPARTMENT

GOF TECHNOLOGY FIBER SPECIFICATIONS DOCUMENT. (LATEST EDITION) ITEM 607 - FENCE, MISC.: WHITE SPLIT RAIL FENCE THE CONTRACTOR SHALL BE REQUIRED TO INSTALL PROPOSED FENCE

THAT MATCHES THE EXISTING SPLIT RAIL FENCE STYLE, MATERIAL, AND

COLOR THAT CURRENTLY EXISTS ON THE PROJECT SITE.

/1\ 7-08-2024 - ADDED GENERAL NOTE

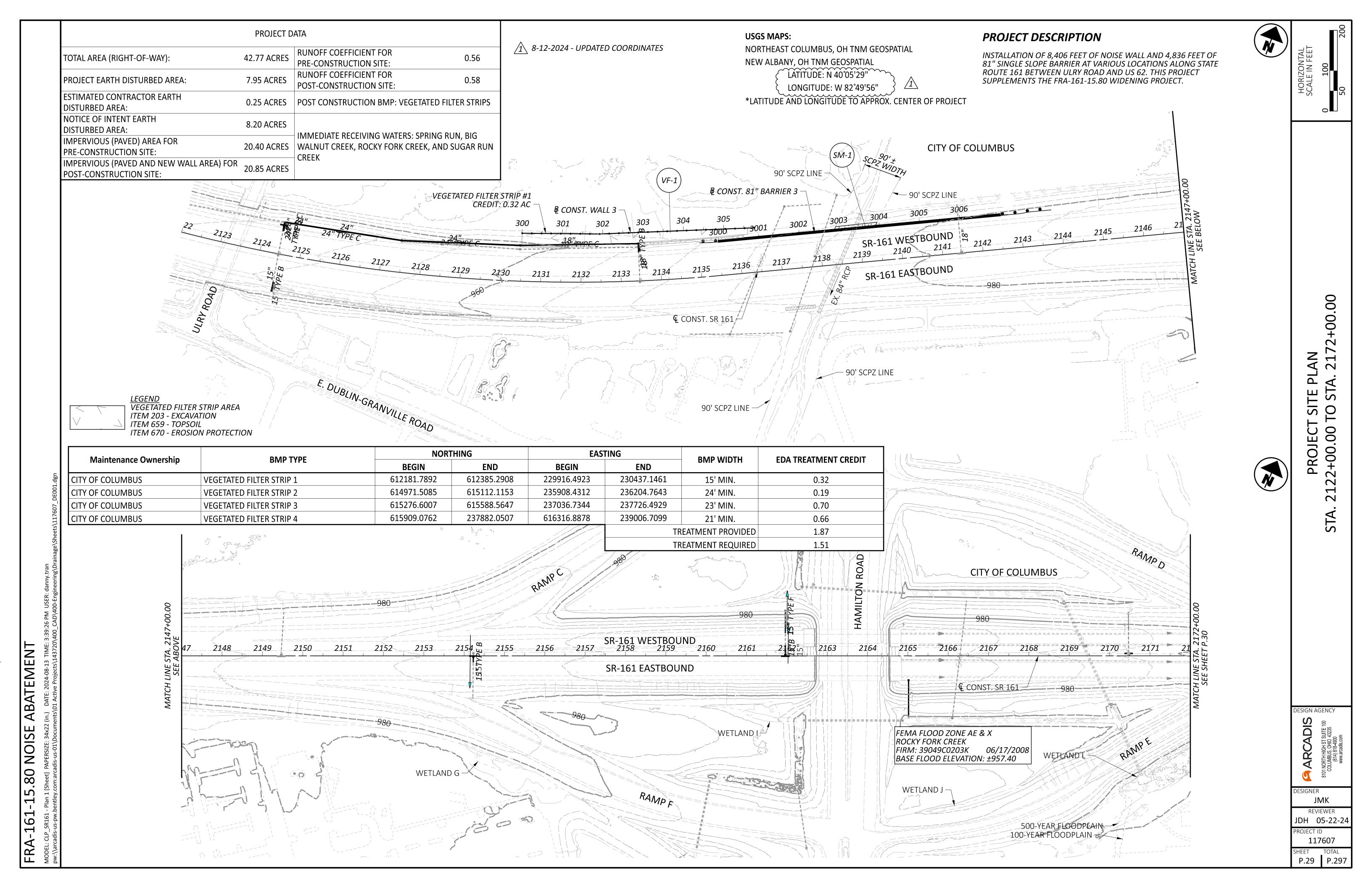
ESIGN AGENCY ARCADIS

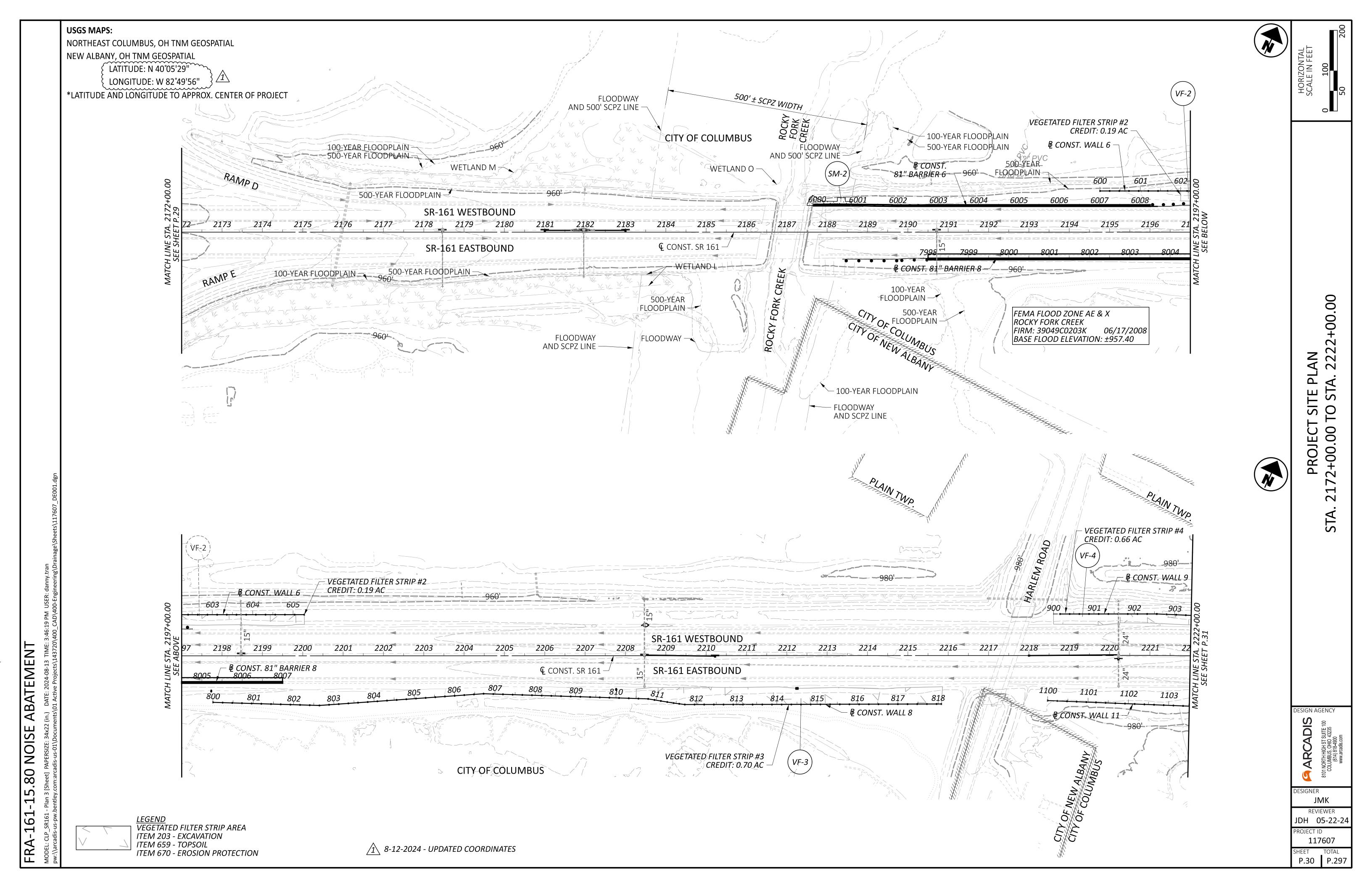
ESIGNER JMK REVIEWER JDH 05-22-24

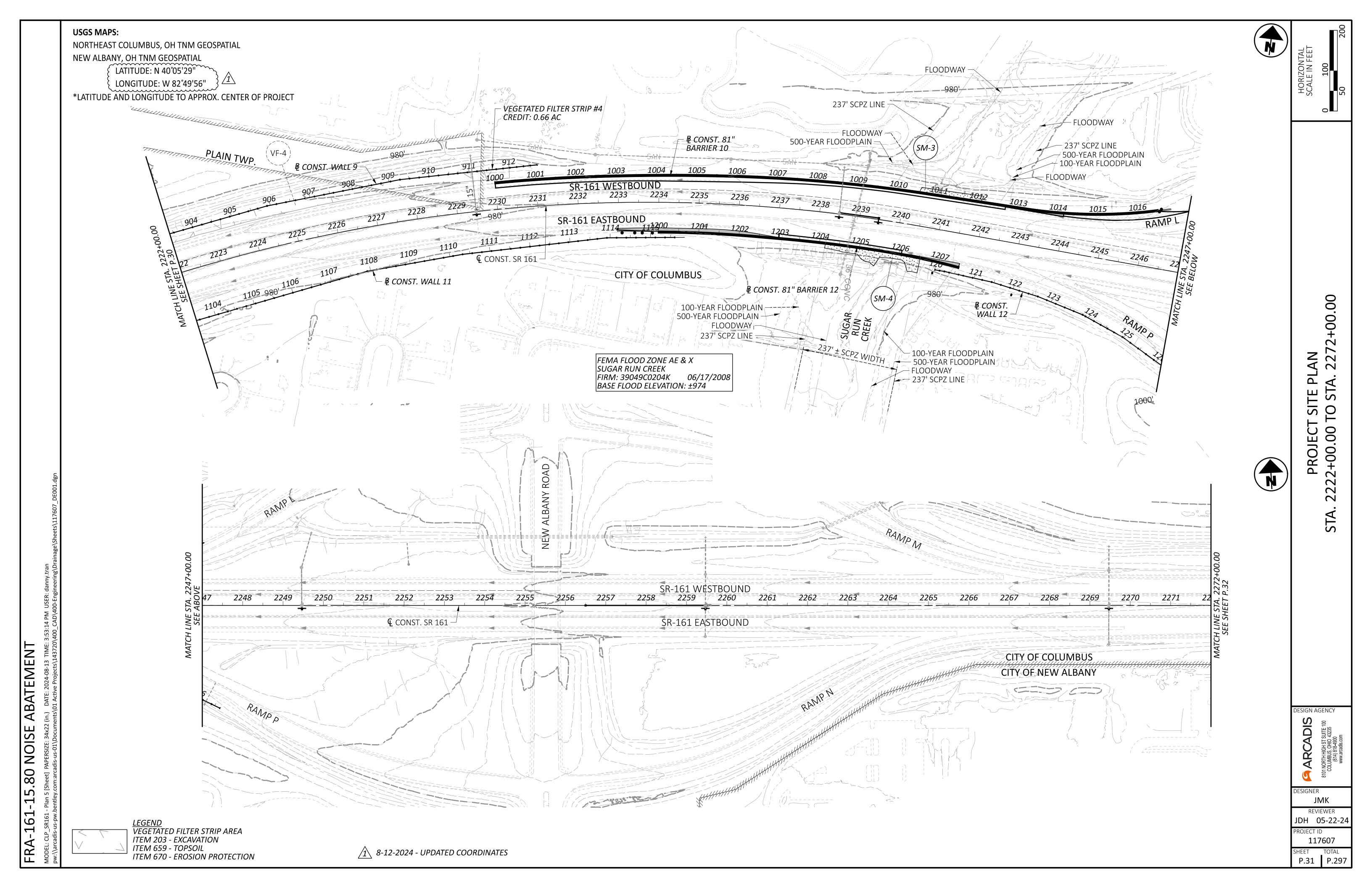
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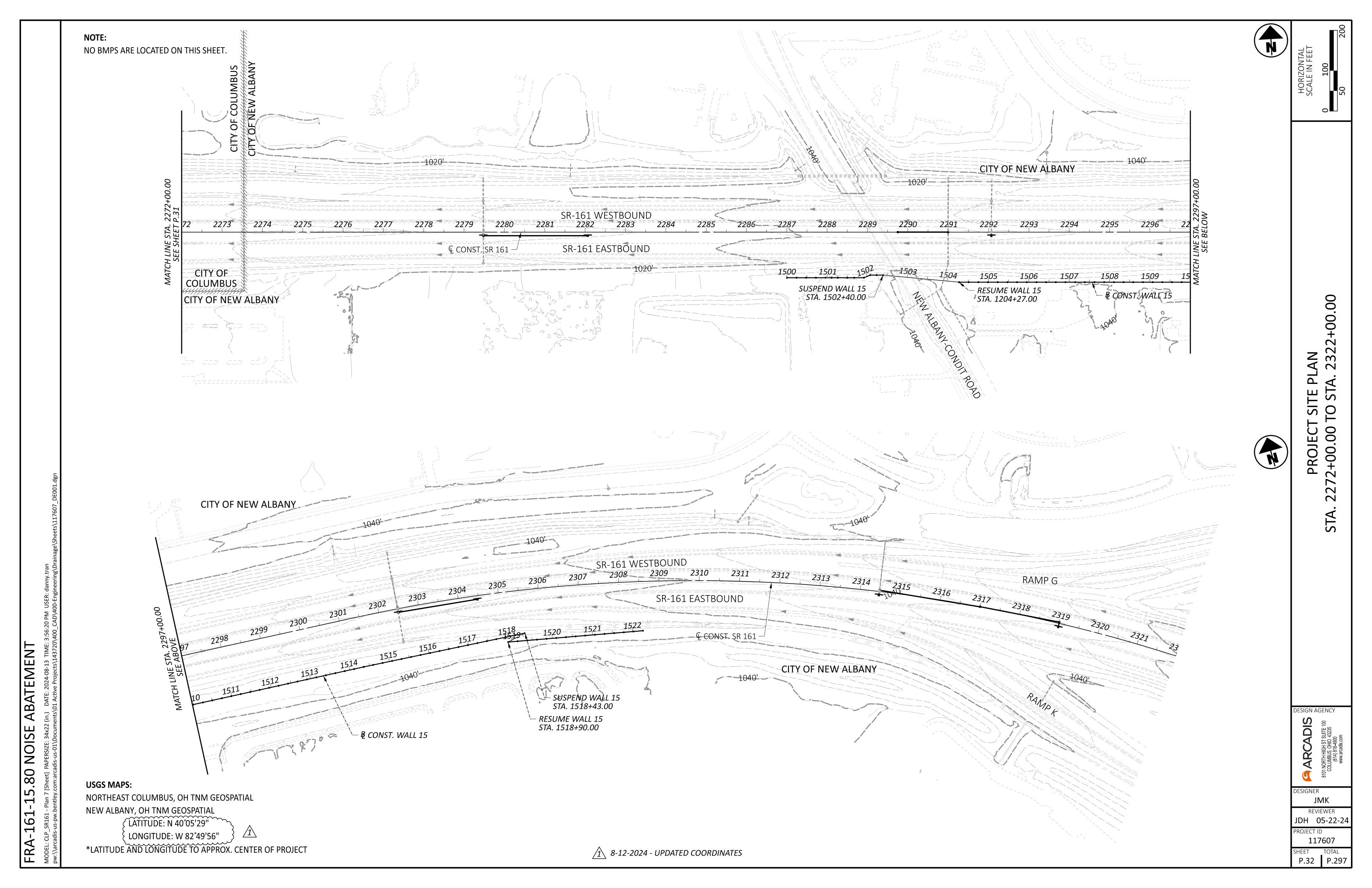
P.10 P.297

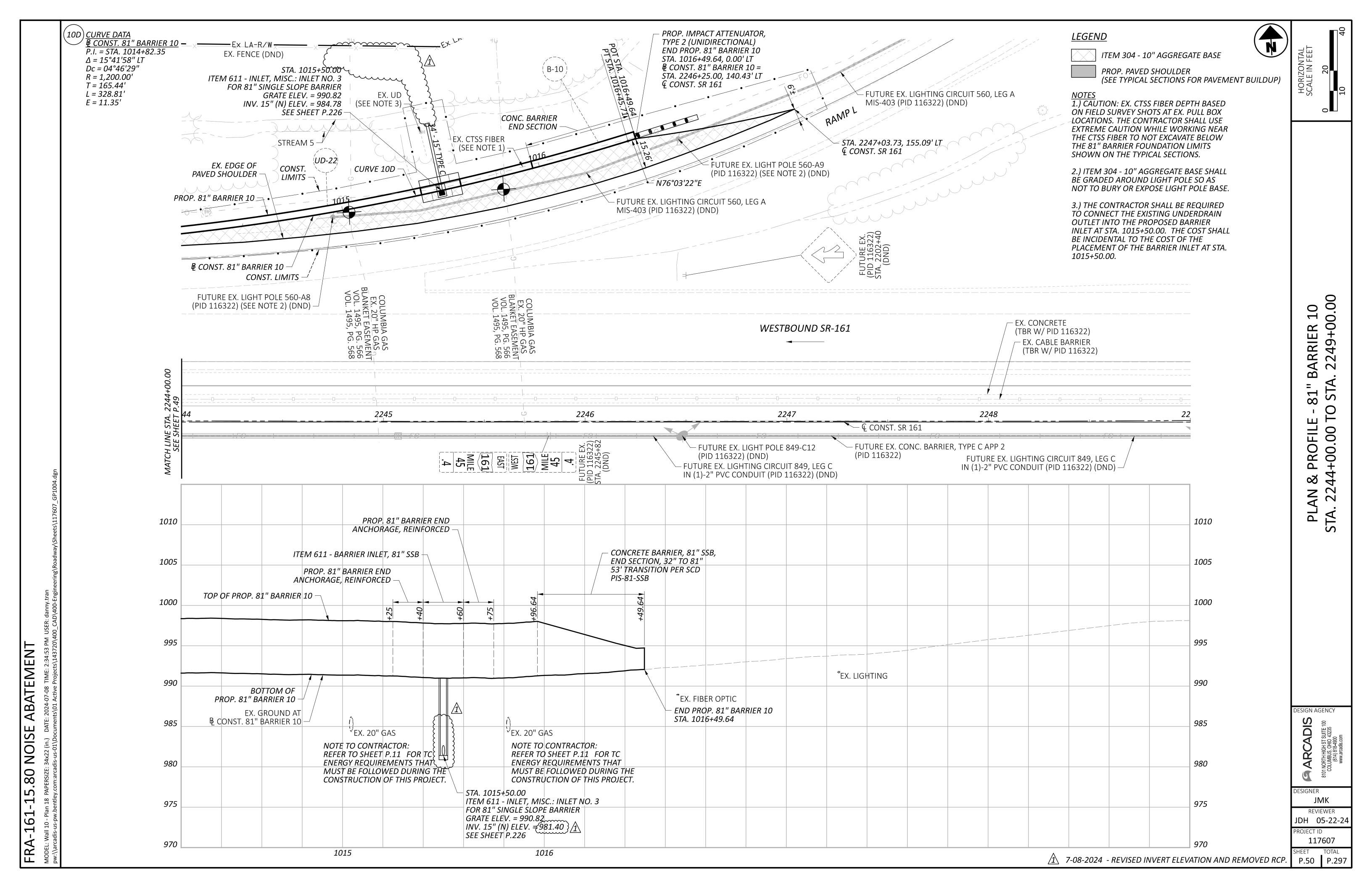
SHEET NUM. **PART**. ITEM GRAND SEE UNIT ITEM **DESCRIPTION** SHEET TOTAL NO. EXT P.26 P.27 01/NHS/20 P.222 **ROADWAY** CLEARING AND GRUBBING, AS PER PLAN LS 201 P.9 LS 11001 LS 1,262 202 1,262 1,262 38000 GUARDRAIL REMOVED 202 42040 ANCHOR ASSEMBLY REMOVED, TYPE T 4,001 4,001 202 75000 4,001 FT FENCE REMOVED 1,229 2,229 3,458 203 3,458 EXCAVATION 10000 CY 684 684 203 684 EMBANKMENT 20000 CY 67 98000 203 67 P.10 ROADWAY, MISC.: TEMPORARY OVER-STEEPENED FILL 362 362 15050 362 FT GUARDRAIL, TYPE MGS 606 26150 EACH ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016) 606 EACH MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 35002 606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2 35102 606 EACH 60002 IMPACT ATTENUATOR, TYPE 1 (UNIDIRECTIONAL) 201 201 607 201 FENCE REMOVED AND REBUILT 35000 P.10 80 80 607 98000 80 FT FENCE, MISC.: WHITE SPLIT RAIL FENCE {4,202 4,202 607 4,202 P.9 98000 FENCE, MISC.: TEMPORARY FENCE P.224 3,743 BARRIER, MISC.: 81" SINGLE SLOPE BARRIER 90000 3,743 622 3,743 29 29 622 90200 29 EACH BARRIER, MISC.: 81" SINGLE SLOPE BARRIER END ANCHORAGE, REINFORCED P.224 **SUMMARY** 622 P.230 6 EACH BARRIER, MISC.: BARRIER DRAINAGE WINDOW SECTION 6 90200 P.223 622 90200 BARRIER, MISC.: 81" CONCRETE BARRIER END SECTION LS 878 25000 LS INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS **EROSION CONTROL** 659 00100 EACH SOIL ANALYSIS TEST ENERAL 1,899 1,899 659 1,012 00300 CY 955 659 00590 955 SEEDING AND MULCHING, CLASS 6 7,985 659 7,985 7,985 SY 10000 SEEDING AND MULCHING 400 400 400 659 14000 REPAIR SEEDING AND MULCHING 659 400 400 400 SY INTER-SEEDING 15000 1.08 659 1.08 COMMERCIAL FERTILIZER 20000 659 1.65 1.65 31000 1.65 ACRE 45 45 659 35000 45 MGAL WATER 9,090 9,090 670 00500 9,090 SLOPE EROSION PROTECTION LS 832 15000 STORM WATER POLLUTION PREVENTION PLAN LS 832 15002 LS STORM WATER POLLUTION PREVENTION INSPECTIONS 832 15010 STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE LS 142,257 142,257 **EROSION CONTROL** 832 30000 EACH DRAINAGE 21050 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT 10 237 247 601 247 2.97 2.97 602 20000 2.97 CONCRETE MASONRY CY 9,383 9,383 50 605 13300 9,333 6" UNCLASSIFIED PIPE UNDERDRAINS 31100 AGGREGATE DRAINS 50 50 605 50 00510 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS 25 532 557 557 611 FT 279 279 611 06100 279 15" CONDUIT, TYPE C 06700 83 83 611 83 FT 15" CONDUIT, TYPE F ABATEMEN 99500 INLET, MISC.: INLET NO. 3 FOR 81" SINGLE SLOPE BARRIER 611 11 P.226 611 26 99710 31 EACH PRECAST REINFORCED CONCRETE OUTLET **PAVEMENT** 4,822 4,822 4,822 254 01000 PAVEMENT PLANING, ASPHALT CONCRETE, 3" 304 20000 AGGREGATE BASE 998 998 CY TACK COAT 219 407 10000 219 GAL NOISE 20000 760 760 407 760 NON-TRACKING TACK COAT ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PG70-22M P.10 189 189 442 10001 189 5.80 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446) 189 189 10080 189 12010 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P 1,803 1,803 452 1,803 ESIGNER 1,147 452 13010 1,147 1,147 SY 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P JMK 24000 CURB, TYPE 4-A 108 1 8-12-2024 ADDED TEMPORARY FENCE ITEM 108 609 108 FT REVIEWER 161 4,401 4,401 872 10000 4,401 VOID REDUCING ASPHALT MEMBRANE (VRAM) JDH 05-22-24 ROJECT ID **NOISE BARRIERS** 117607 11101 PATCHING CONCRETE STRUCTURE, AS PER PLAN P.222 519 P.24 P.297 115,010 **SPECIAL** SF 115,010 115,010 60610210 NOISE BARRIER (REFLECTIVE)

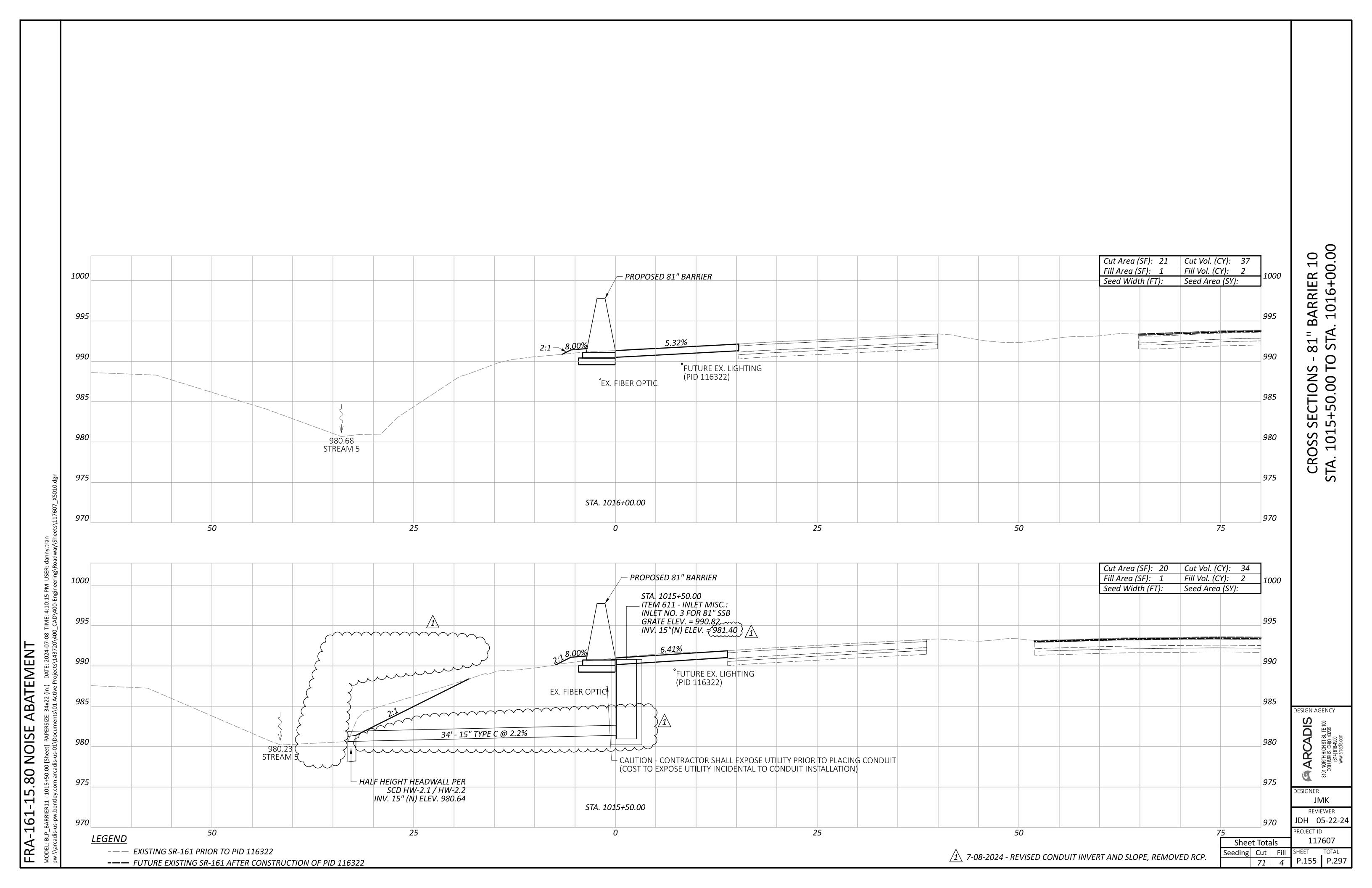












FRA-161-15.80 NOISE ABATEMENT

			NOISE WALL 9			
DRILLED SHAFT NO.	WORKPOINT STATION	DEFLECTION ANGLE	TOP OF DRILLED SHAFT ELEVATION	SHAFT LENGTH (FEET)	BOTTOM OF BARRIER ELEVATION	TOP OF BARRIER ELEVATION
1	900+16.00	0000'00" RT	973.18	7.00	973.50	987.50
2	900+40.00	0000'00" RT	973.18	7.00	973.50	987.50
3	900+64.00	0000'00" RT	973.18	7.00	973.50	988.00
4	900+88.00	0000'00" RT	973.68	7.00	974.00	988.00
5	901+12.00	0000'00" RT	973.68	7.00	974.00	988.00
6	901+36.00	0000'00" RT	973.68	7.00	974.00	988.00
7	901+52.00	0000'00" RT	973.68	7.00	974.00	988.00
8	901+68.00	0000'00" RT	973.68	7.00	974.00	988.50
9	901+84.00	0000'00" RT	974.18	7.00	974.50	988.50
10	902+08.00	0000'00" RT	974.18	7.00	974.50	988.50
11	902+32.00	0000'00" RT	974.18	7.00	974.50	988.50
12	902+56.00	02°23'44" RT	974.18	7.00	974.50	989.00
13	902+80.00	0000'00" RT	974.68	7.00	975.00	989.50
14	903+04.00	0000'00" RT	975.18	7.00	975.50	990.00
15	903+28.00	0000'00" RT	975.68	7.00	976.00	990.00
16	903+52.00	0000'00" RT	975.68	7.00	976.00	990.00
17	903+76.00	0000'00" RT	975.68	7.00	976.00	990.00
18	904+00.00	0000'00" RT	975.68	7.00	976.00	990.50
19	904+24.00	0000'00" RT	976.18	7.00	976.50	990.50
20	904+48.00	0000'00" RT	976.18	7.00	976.50	991.00
21	904+72.00	0000'00" RT	976.68	7.00	977.00	991.00
22	904+96.00	0000'00" RT	976.68	7.00	977.00	991.50
23	905+20.00	0000'00" RT	977.18	7.00	977.50	991.50
24	905+44.00	0000'00" RT	977.18	7.00	977.50	992.00
25	905+68.00	0000'00" RT	977.68	7.00	978.00	992.50
26	905+92.00	04°48'10" RT	978.18	7.00	978.50	992.50
27	906+16.00	0000'00" RT	978.18	7.00	978.50	992.50
28	906+40.00	0000'00" RT	978.18	7.00	978.50	992.50
29	906+64.00	0000'00" RT	978.18	7.00	978.50	993.00
30	906+88.00	0000'00" RT	978.68	7.00	979.00	993.50
31	907+12.00	0000'00" RT	979.18	7.00	979.50	993.50
32	907+36.00	0000'00" RT	979.18	7.00	979.50	994.00
33	907+60.00	0000'00" RT	979.68	7.00	980.00	994.50
34	907+84.00	0000'00" RT	980.18	7.00	980.50	994.50
35	908+08.00	0000'00" RT	980.18	7.00	980.50	994.50
36	908+32.00	0000'00" RT	980.18	7.00	980.50	995.00
37	908+56.00	0000'00" RT	980.68	7.00	981.00	995.00
38	908+80.00	0000'00" RT	980.68	7.00	981.00	995.50
39 40	909+04.00	0000'00" RT	981.18	7.00	981.50	995.50
40	909+28.00	05°00'48" RT	981.18	7.00	981.50	995.50
41	909+52.00 909+76.00	0000'00" RT 0000'00" RT	981.18	7.00	981.50	996.00 996.00
42	910+00.00	0000'00" RT	981.68	7.00	982.00	
43	910+00.00	0000'00" RT	981.68 981.68	7.00 7.00	982.00 982.00	996.00 996.50
44	910+24.00	0000'00" RT	981.68	7.00	982.50	990.50
45 46	910+48.00	0000'00" RT	982.68	7.00	983.00	997.00
47	910+72.00	0000'00" RT	982.68	7.00	983.00	997.50
48	910+90.00	0000'00" RT	983.18	7.00	983.50	997.50
49	911+44.00	0000'00" RT	983.18	7.00	983.50	997.50
50	911+68,00	0000'00" RT	983.18	7.00	983.50	998.00
51	911+85.00	0000'00" RT	983.68	7.00	984.00	998.00
52	912+02.00	0000'00" RT	983.68	7.00	984.00	998.00
53	912+19.00	0000'00" RT	982.68	7.00	983.00	998.00
54	912+36,00	0000'00" RT	981.68	7.00	982.00	997.00
55	912+53.00	0000'00" RT	980.68	7.00	981.00	996.00
56	912+70.00	0000'00" RT	980.68	7.00	981.00	995.00

						NOISE	WALL 11						
DRILLED SHAFT NO.	WORKPOINT STATION	DEFLECTION ANGLE	TOP OF DRILLED SHAFT ELEVATION	SHAFT LENGTH (FEET)	BOTTOM OF BARRIER ELEVATION	TOP OF BARRIER ELEVATION	DRILLED SHAFT NO.	WORKPOINT STATION	DEFLECTION ANGLE	TOP OF DRILLED SHAFT ELEVATION	SHAFT LENGTH (FEET)	BOTTOM OF BARRIER ELEVATION	TOP OF BARRIER ELEVATION
1	1100+00.00	00°00'00" RT	974.68	6.50	975.00	989.00	35	1108+16.00	00°00'00" RT	979.18	7.00	979.50	993.50
2	1100+24.00	00°00'00" RT	974.68	6.50	975.00	989.50	36	1108+40.00	00°00'00" RT	979.18	7.00	979.50	994.00
3	1100+48.00	00°00'00" RT	975.18	6.50	975.50	990.00	37	1108+64.00	00°00'00" RT	979.68	7.00	980.00	994.00
4	1100+72.00	00°00'00" RT	975.68	6.50	976.00	990.00	38	1108+88.00	00°00'00" RT	979.68	7.00	980.00	994.50
5	1100+96.00	00°00'00" RT	975.68	6.50	976.00	990.00	39	1109+12.00	00°00'00" RT	980.18	6.50	980.50	995.00
6	1101+20.00	00°00'00" RT	975.68	7.00	976.00	990.00	40	1109+36.00	00°00'00" RT	980.68	6.50	981.00	995.00
7	1101+44.00	00°00'00" RT	975.68	7.00	976.00	990.50	41	1109+60.00	00°00'00" RT	980.68	6.50	981.00	995.00
8	1101+68.00	00°00'00" RT	976.18	7.00	976.50	990.50	42	1109+84.00	00°00'00" RT	980.68	6.50	981.00	995.00
9	1101+92.00	00°00'00" RT	976.18	7.00	976.50	990.50	43	1110+08.00	00°00'00" RT	980.68	6.50	981.00	995.00
10	1102+16.00	00°00'00" RT	976.18	7.00	976.50	990.50	44	1110+32.00	03°30'30" RT	980.68	6.50	981.00	995.00
11	1102+40.00	00°00'00" RT	976.18	7.00	976.50	990.50	45	1110+56.00	00°00'00" RT	980.68	6.50	981.00	995.50
12	1102+64.00	00°00'00" RT	976.18	7.00	976.50	990.50	46	1110+80.00	00°00'00" RT	981.18	6.50	981.50	995.50
13	1102+88.00	00°00'00" RT	976.18	7.00	976.50	991.00	47	1111+04.00	00°00'00" RT	981.18	6.50	981.50	995.50
14	1103+12.00	00°00'00" RT	976.68	6.50	977.00	991.50	48	1111+28.00	00°00'00" RT	981.18	6.50	981.50	995.50
15	1103+36.00	00°00'00" RT	977.18	6.50	977.50	992.00	49	1111+52.00	00°00'00" RT	981.18	6.50	981.50	995.50
16	1103+60.00	00°00'00" RT	977.68	6.50	978.00	992.50	50	1111+76.00	00°00'00" RT	981.18	6.50	981.50	996.00
17	1103+84.00	00°00'00" RT	978.18	6.50	978.50	993.00	51	1112+00.00	00°00'00" RT	981.68	6.50	982.00	996.00
18	1104+08.00	00°00'00" RT	978.68	6.50	979.00	993.50	52	1112+24.00	00°00'00" RT	981.68	6.50	982.00	996.00
19	1104+32.00	00°00'00" RT	979.18	6.50	979.50	993.50	53	1112+48.00	00°00'00" RT	981.68	6.50	982.00	996.00
20	1104+56.00	00°00'00" RT	979.18	6.50	979.50	993.50	54	1112+72.00	00°00'00" RT	981.68	6.50	982.00	996.00
21	1104+80.00	00°00'00" RT	979.18	6.50	979.50	993.50	55	1112+96.00	00°00'00" RT	981.68	6.50	982.00	996.00
22	1105+04.00	00°00'00" RT	979.18	6.50	979.50	993.50	56	1113+20.00	00°00'00" RT	981.68	6.50	982.00	996.00
23	1105+28.00	00°00'00" RT	979.18	6.50	979.50	994.00	57	1113+44.00	00°00'00" RT	981.68	6.50	982.00	996.00
24	1105+52.00	00°00'00" RT	979.68	6.50	980.00	994.00	58	1113+68.00	00°00'00" RT	981.68	6.50	982.00	996.50
25	1105+76.00	00°00'00" RT	979.68	6.50	980.00	994.00	59	1113+92.00	06°13'00" RT	982.18	6.50	982.50	996.50
26	1106+00.00	00°00'00" RT	979.68	6.50	980.00	994.00	60	1114+16.00	00°00'00" RT	982.18	6.50	982.50	996.50
27	1106+24.00	00°00'00" RT	979.68	6.50	980.00	994.00	61	1114+40.00	00°00'00" RT	982.18	6.50	982.50	996.50
28	1106+48.00	00°00'00" RT	979.68	6.50	980.00	994.00	62	1114+64.00	00°00'00" RT	982.18	6.50	982.50	996.50
29	1106+72.00	00°00'00" RT	979.68	6.50	980.00	994.00	63	1114+88.00	00°00'00" RT	982.18	6.50	982.50	996.50
30	1106+96.00	00°00'00" RT	979.68	6.50	980.00	994.00	64	1115+12.00	00°00'00" RT	982.18	6.50	982.50	996.50
31	1107+20.00	00°00'00" RT	979.68	7.00	980.00	994.00	65	1115+36.00	00°00'00" RT	982.18	6.50	982.50	996.50
32	1107+44.00	00°00'00" RT	979.18	7.00	979.50	994.00	66	1115+60.00	00°00'00" RT	982.18	6.50	982.50	996.50
33	1107+68.00	00°00'00" RT	979.18	7.00	979.50	993.50							
34	1107+92.00	06°02'50" RT	979.18	7.00	979.50	993.50							

						NOISE	WALL 12						
DRILLED SHAFT NO.	WORKPOINT STATION	DEFLECTION ANGLE	TOP OF DRILLED SHAFT ELEVATION	SHAFT LENGTH (FEET)	BOTTOM OF BARRIER ELEVATION	TOP OF BARRIER ELEVATION	DRILLED SHAFT NO.	WORKPOINT STATION	DEFLECTION ANGLE	TOP OF DRILLED SHAFT ELEVATION	SHAFT LENGTH (FEET)	BOTTOM OF BARRIER ELEVATION	TOP OF BARRIER ELEVATION
1	120+00.00	00°00'00" RT	981.18	7.00	981.50	995.50	17	123+36.00	00°00'00" RT	985.68	7.00	986.00	1000.50
2	120+12.00	00°00'00" RT	981.18	7.00	981.50	996.00	18	123+60.00	00°00'00" RT	986.18	7.00	986.50	1000.50
3	120+24.00	02°23'37" RT	981.68	7.00	982.00	996.50	19	123+84.00	06°56'28" RT	986.18	7.00	986.50	1000.50
4	120+36.00	00°00'00" RT	982.18	7.00	982.50	997.00	20	123+92.00	00°00'00" RT	986.18	7.00	986.50	1000.50
5	120+60.00	00°00'00" RT	982.68	7.00	983.00	997.50	21	124+16.00	00°00'00" RT	986.18	7.00	986.50	1000.50
6	120+72.00	00°00'00" RT	983.18	7.00	983.50	998.00	22	124+35.00	00°00'00" RT	986.18	8.50	986.50	1000.50
7	120+96.00	00°00'00" RT	983.68	7.00	984.00	998.50	23	124+54.00	00°00'00" RT	986.18	8.50	986.50	1000.50
8	121+20.00	00°00'00" RT	984.18	7.00	984.50	999.50	24	124+73.00	00°00'00" RT	986.18	8.50	986.50	1000.50
9	121+44.00	04°47'34" RT	985.18	7.00	985.50	999.50	25	124+97.00	06°54'32" RT	986.18	8.50	986.50	1001.50
10	121+68.00	00°00'00" RT	985.18	7.00	985.50	999.50	26	125+21.00	00°00'00" RT	987.18	8.50	987.50	1001.50
11	121+92.00	00°00'00" RT	985.18	7.00	985.50	999.50	27	125+45.00	00°00'00" RT	987.18	8.50	987.50	1001.50
12	122+16.00	00°00'00" RT	985.18	7.00	985.50	999.50	28	125+69.00	00°00'00" RT	987.18	8.50	987.50	1002.00
13	122+40.00	00°00'00" RT	984.18	7.00	984.50	999.50	29	125+93.00	00°00'00" RT	987.68 🖄	8.50	988.00	1002.00
14	122+64.00	04°50'38" RT	984.18	7.00	984.50	999.50	30	126+17.00	00°00'00" RT	987.68	8.50	988.00	1002.50
15	122+88.00	00°00'00" RT	984.18	7.00	984.50	999.50	31	126+41.00	00°00'00" RT	988.18	8.50	988.50	1002.50
16	123+12.00	00°00'00" RT	985.18	7.00	985.50	1000.00	32	126+64.00	00°00'00" RT	988.18	8.50	988.50	1002.50

<u>NOTES:</u> 1.) FOR POST TYPE SPECIFICATIONS, SEE SHEETS P.218 - P.221

2.) VALUES LISTED FOR BOTTOM OF BARRIER ELEVATION AND TOP OF BARRIER ELEVATION CORRESPOND WITH THE BOTTOMMOST AND TOPMOST PANEL AT EACH DRILLED SHAFT LOCATION.

DESIGNER JMK

REVIEWER
JDH 05-22-24 PROJECT ID 117607 SHEET TOTAL P.215 P.297