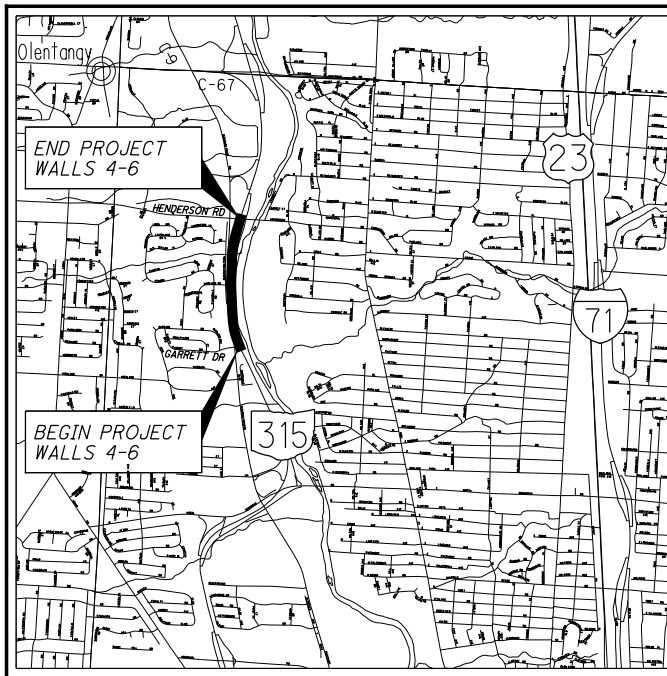


STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
FRA-315-7.13
NOISE WALLS
PART 1
FOR PART 2, SEE
DEL / FRA / MAD NOISE WALL REPAIR
CITY OF COLUMBUS
FRANKLIN COUNTY



LOCATION MAP

LATITUDE: 40°02'50" LONGITUDE: 83°02'00"



PORTION TO BE IMPROVED	-----	-----
INTERSTATE HIGHWAY	-----	
FEDERAL ROUTES	-----	
STATE ROUTES	-----	
COUNTY & TOWNSHIP ROADS	-----	
OTHER ROADS	-----	5TH AVE.

DESIGN DESIGNATION

CURRENT ADT (20)	-----	N/A
DESIGN YEAR ADT (20)	-----	N/A
DESIGN HOURLY VOLUME (20)	-----	N/A
DIRECTIONAL DISTRIBUTION	-----	N/A
TRUCKS (24 HOUR B&C)	-----	N/A
DESIGN SPEED	-----	65 MPH
LEGAL SPEED	-----	65 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	-----	OTHER FWY & EXPWY
NHS PROJECT	-----	YES

DESIGN EXCEPTIONS

NONE

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig

OHIO811.org
Before You Dig

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

PLAN PREPARED BY:

IBI Group
8101 North High Street, Suite 100
Columbus, OH 43235 USA

INDEX OF SHEETS:

TITLE SHEET	1
CITY OF COLUMBUS SIGNATURE SHEET 1A	
SCHEMATIC PLAN	2
TYPICAL SECTIONS	3
GENERAL NOTES	4-5
MAINTENANCE OF TRAFFIC	6-25
GENERAL SUMMARY	26-27
ESTIMATED QUANTITIES	28
PROJECT SITE PLAN	29-30
PLAN & PROFILE - WALL 4	31-32
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CROSS SECTIONS - WALL 6	43-47
CROSS SECTIONS - WALL 5	48-52
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WALL 6 DETAILS	55-75
DMS PLAN - SITE 94	76-80
SOIL PROFILES	

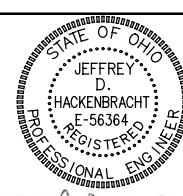
FIRM PANELS: 39049C0166K
MAP EFFECTIVE DATE: JUNE 17, 2008
BFE: 737
FLOOD ZONES AE & X

NO FILL WILL BE ADDED IN THE 100-YEAR FLOODPLAIN.

PORTIONS OF THIS PROJECT LIE WITHIN THE CORPORATION LIMITS OF THE CITY OF COLUMBUS AND THE CITY IS ABSOLVED IN THE FUTURE OF ANY RESPONSIBILITIES FOR THE SWPPP, POST CONSTRUCTION BMP MAINTENANCE, AND DOCUMENTATION TO THE OEPA.

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-5.1	1/18/19	MT-95.30	7/19/19	MGS-1.1	1/19/18	800-2019	4/16/21		
		MT-95.50	7/21/17	MGS-2.1	1/19/18	804	1/15/21		
CB-1.2	1/15/16	MT-97.10	4/19/19	MGS-3.2	1/18/13	809	1/15/21		
		MT-98.11	1/17/20	MGS-4.2	7/19/13	821	4/20/12		
I-2.3	1/15/16	MT-98.22	1/17/20			832	10/19/18		
		MT-98.29	1/17/20	ITS-14.10	1/15/21	840	1/15/21		
DM-1.2	1/18/13	MT-98.30	7/19/19	ITS-14.11	1/15/21	899	1/17/20		
DM-4.3	1/15/16	MT-99.30	1/17/20	ITS-15.10	1/15/21	904	1/15/21		
DM-4.4	1/15/16	MT-99.60	7/15/16	ITS-15.11	1/15/21	909	1/15/21		
		MT-101.60	1/17/20	ITS-18.00	1/15/21				
F-1.1	7/19/13	MT-101.70	1/17/20	ITS-30.11	1/15/16				
F-3.3	7/19/13	MT-101.90	7/17/20	ITS-30.12	1/15/21				
F-3.4	7/19/13	MT-102.10	1/17/20	ITS-30.13	1/15/21				
				ITS-30.14	1/15/21				
RM-4.4	7/19/19	NBS-1-09	1/19/18	ITS-50.10	1/15/21				

ENGINEERS SEAL:



SIGNED: *Jeffrey D. Hackenbracht*
DATE: 03-08-2021

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW NOISE BARRIER WALL ALONG SR-315 SB BETWEEN HENDERSON RD AND GARRETT DR IN FRANKLIN COUNTY, OHIO. ALSO INCLUDED IS THE REMOVAL AND REPLACEMENT OF THE MONOTUBE DMS SUPPORT AT SR-315 SB SOUTH OF HENDERSON RD AND INSTALLATION OF NEW PEDESTAL MOUNTED WALK-IN DMS SIGN.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	1.87 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.25 ACRES
TOTAL EARTH DISTURBING ACTIVITIES:	2.12 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	4.9 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.

2019 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.

PLAN CERTIFIED AS TO COMPLETENESS AND QUALITY

<i>Jeffrey D. Hackenbracht</i>	03-08-2021
SIGNATURE	DATE
IBI GROUP	PRINCIPAL
FIRM	TITLE

APPROVED *Roni Niese-Dryden*
DATE 3/29/2021 DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. E190761
CONSTRUCTION PROJECT NO. 106877
RAILROAD INVOLVEMENT NONE
FRA-315-7.13 NOISE WALLS
1/80

\\10.120.108.5\ibshare\16-147_D6NoiseWalls\5.0 Design (Work) Phase\93446\roadway\sheets\93446GT001.dgn Sheet 2021-03-29 11:29:47 AM jennifer.kelley

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Steven Wasosky 3/23/2021

DESIGN SECTION ENGINEER, DIVISION OF DESIGN AND CONSTRUCTION DATE

Amy Wilf 3/25/2021

ADMINISTRATOR, DIVISION OF POWER DATE

RMV MDT *John Newsome* 3/25/2021

ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE DATE

TEH *Daniella Petruski* 3/25/2021

ADMINISTRATOR, DIVISION OF WATER DATE

Tracie Davies by dMd 3/26/2021

DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES DATE

James Young 3/25/2021

CITY ENGINEER/ADMINISTRATOR, DIVISION OF DESIGN AND CONSTRUCTION DATE

Jennifer Gallagher 3/25/2021

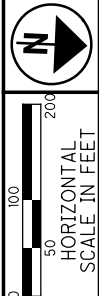
DIRECTOR, DEPARTMENT OF PUBLIC SERVICE DATE

CALCULATED
JMK
CHECKED
JDH

CITY OF COLUMBUS SIGNATURE SHEET

FRA-315-7.13
NOISE WALLS

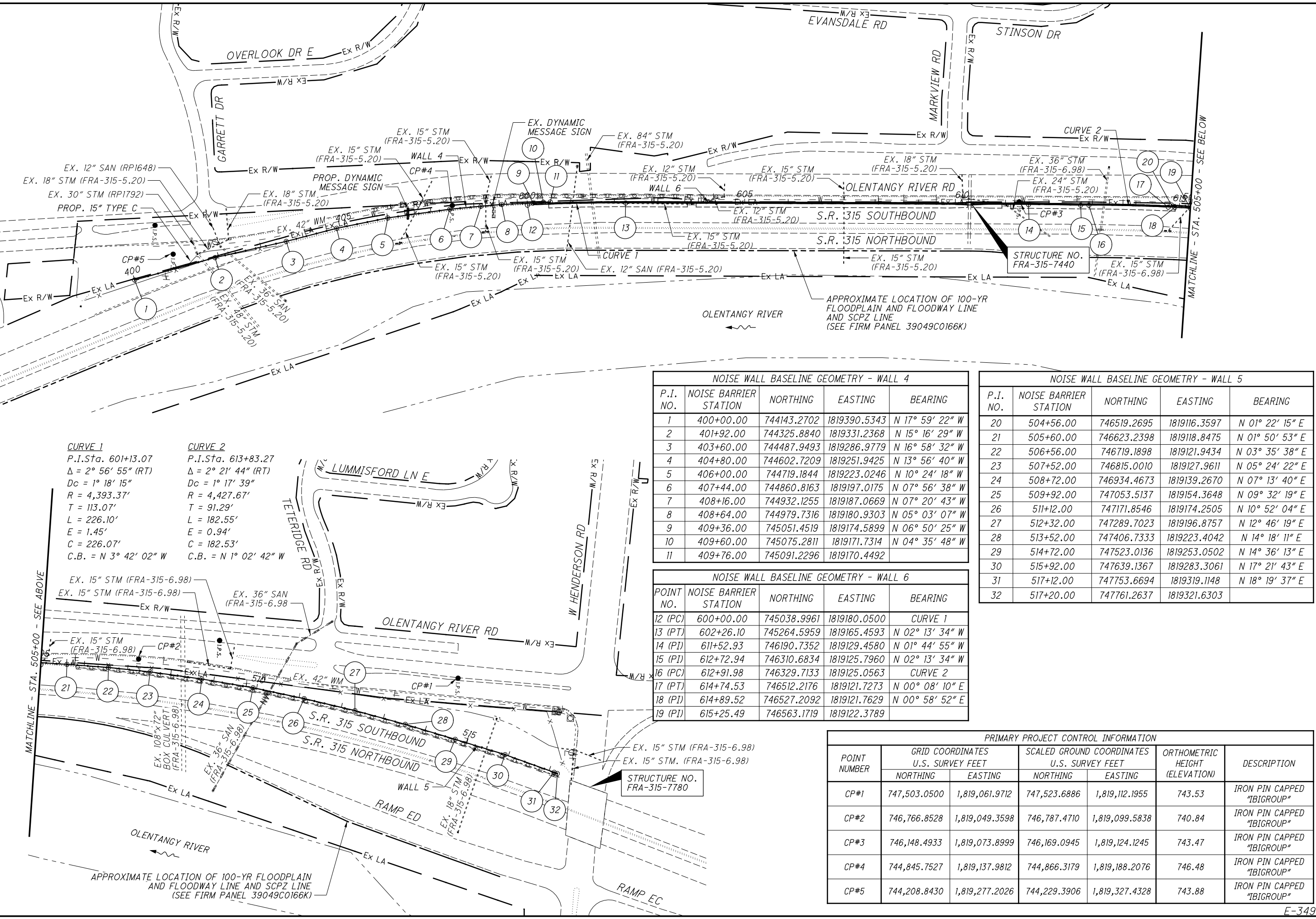
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80



SCHEMATIC PLAN - S.R. 315

FRA-315-7.13 NOISE WALLS

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CURVE 1
 P.I. Sta. 601+13.07
 $\Delta = 2^\circ 56' 55''$ (RT)
 $Dc = 1^\circ 18' 15''$
 $R = 4,393.37'$
 $T = 113.07'$
 $L = 226.10'$
 $E = 1.45'$
 $C = 226.07'$
 C.B. = N 3° 42' 02" W

CURVE 2
 P.I. Sta. 613+83.27
 $\Delta = 2^\circ 21' 44''$ (RT)
 $Dc = 1^\circ 17' 39''$
 $R = 4,427.67'$
 $T = 91.29'$
 $L = 182.55'$
 $E = 0.94'$
 $C = 182.53'$
 C.B. = N 1° 02' 42" W

P.I. NO.	NOISE BARRIER STATION	NORTHING	EASTING	BEARING
1	400+00.00	744143.2702	1819390.5343	N 17° 59' 22" W
2	401+92.00	744325.8840	1819331.2368	N 15° 16' 29" W
3	403+60.00	744487.9493	1819286.9779	N 16° 58' 32" W
4	404+80.00	744602.7209	1819251.9425	N 13° 56' 40" W
5	406+00.00	744719.1844	1819223.0246	N 10° 24' 18" W
6	407+44.00	744860.8163	1819197.0175	N 07° 56' 38" W
7	408+16.00	744932.1255	1819187.0669	N 07° 20' 43" W
8	408+64.00	744979.7316	1819180.9303	N 05° 03' 07" W
9	409+36.00	745051.4519	1819174.5899	N 06° 50' 25" W
10	409+60.00	745075.2811	1819171.7314	N 04° 35' 48" W
11	409+76.00	745091.2296	1819170.4492	

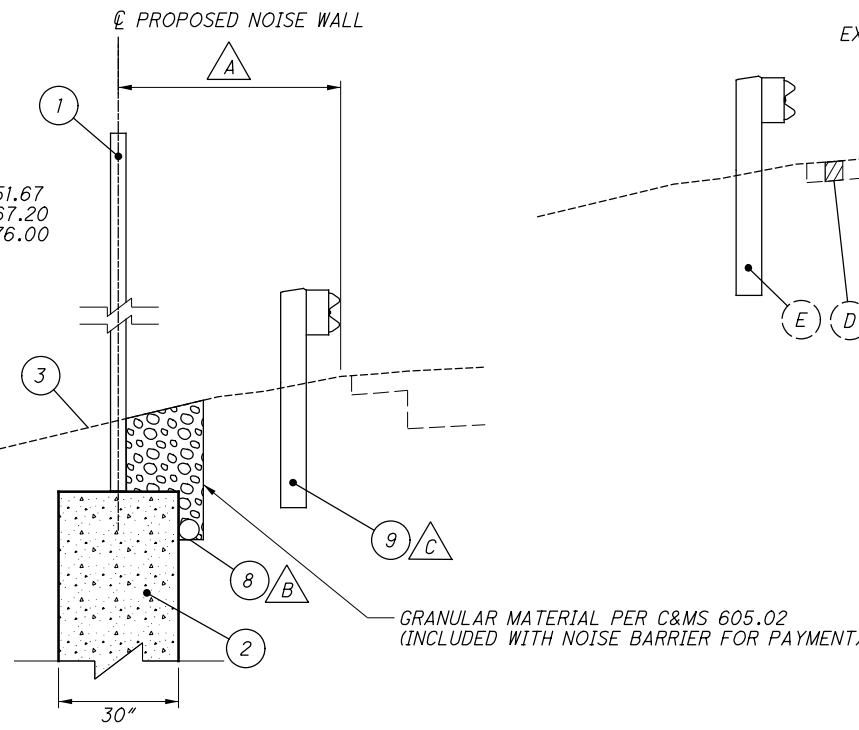
P.I. NO.	NOISE BARRIER STATION	NORTHING	EASTING	BEARING
20	504+56.00	746519.2695	1819116.3597	N 01° 22' 15" E
21	505+60.00	746623.2398	1819118.8475	N 01° 50' 53" E
22	506+56.00	746719.1898	1819121.9434	N 03° 35' 38" E
23	507+52.00	746815.0010	1819127.9611	N 05° 24' 22" E
24	508+72.00	746934.4673	1819139.2670	N 07° 13' 40" E
25	509+92.00	747053.5137	1819154.3648	N 09° 32' 19" E
26	511+12.00	747171.8546	1819174.2505	N 10° 52' 04" E
27	512+32.00	747289.7023	1819196.8757	N 12° 46' 19" E
28	513+52.00	747406.7333	1819223.4042	N 14° 18' 11" E
29	514+72.00	747523.0136	1819253.0502	N 14° 36' 13" E
30	515+92.00	747639.1367	1819283.3061	N 17° 21' 43" E
31	517+12.00	747753.6694	1819319.1148	N 18° 19' 37" E
32	517+20.00	747761.2637	1819321.6303	

POINT NO.	NOISE BARRIER STATION	NORTHING	EASTING	BEARING
12 (PC)	600+00.00	745038.9961	1819180.0500	CURVE 1
13 (PT)	602+26.10	745264.5959	1819165.4593	N 02° 13' 34" W
14 (PI)	611+52.93	746190.7352	1819129.4580	N 01° 44' 55" W
15 (PI)	612+72.94	746310.6834	1819125.7960	N 02° 13' 34" W
16 (PC)	612+91.98	746329.7133	1819125.0563	CURVE 2
17 (PT)	614+74.53	746512.2176	1819121.7273	N 00° 08' 10" E
18 (PI)	614+89.52	746527.2092	1819121.7629	N 00° 58' 52" E
19 (PI)	615+25.49	746563.1719	1819122.3789	

POINT NUMBER	GRID COORDINATES U.S. SURVEY FEET		SCALED GROUND COORDINATES U.S. SURVEY FEET		ORTHOMETRIC HEIGHT (ELEVATION)	DESCRIPTION
	NORTHING	EASTING	NORTHING	EASTING		
CP#1	747,503.0500	1,819,061.9712	747,523.6886	1,819,112.1955	743.53	IRON PIN CAPPED "BIGROUP"
CP#2	746,766.8528	1,819,049.3598	746,787.4710	1,819,099.5838	740.84	IRON PIN CAPPED "BIGROUP"
CP#3	746,148.4933	1,819,073.8999	746,169.0945	1,819,124.1245	743.47	IRON PIN CAPPED "BIGROUP"
CP#4	744,845.7527	1,819,137.9812	744,866.3179	1,819,188.2076	746.48	IRON PIN CAPPED "BIGROUP"
CP#5	744,208.8430	1,819,277.2026	744,229.3906	1,819,327.4328	743.88	IRON PIN CAPPED "BIGROUP"

J:\16-147_D6NoiseWalls\5.0 Design (Work) Phase\93446\roadway\sheet\93446GY002.dgn 2021-02-17 4:00:42 PM jennifer.kelley ODOTcadd_PDF_pltcfg ODOTV81_Pen-ME.tbi Group

- A** WALL 4 - VARIES FROM 32.68' AT STA. 400+25.44 TO 6.70' AT STA. 403+51.67
- B** WALL 4 - 6" UNCLASSIFIED UNDERDRAINS AND GRANULAR MATERIAL PER C&MS 605.02 FROM STA. 400+00 TO STA. 404+00
- C** WALL 4 - PR GUARDRAIL STA. 400+25.44 TO STA. 403+51.67
 WALL 4 - PR GUARDRAIL STA. 402+54.05 TO STA. 405+67.20
 WALL 4 - EX GUARDRAIL STA. 405+67.20 TO STA. 409+76.00



LEGEND

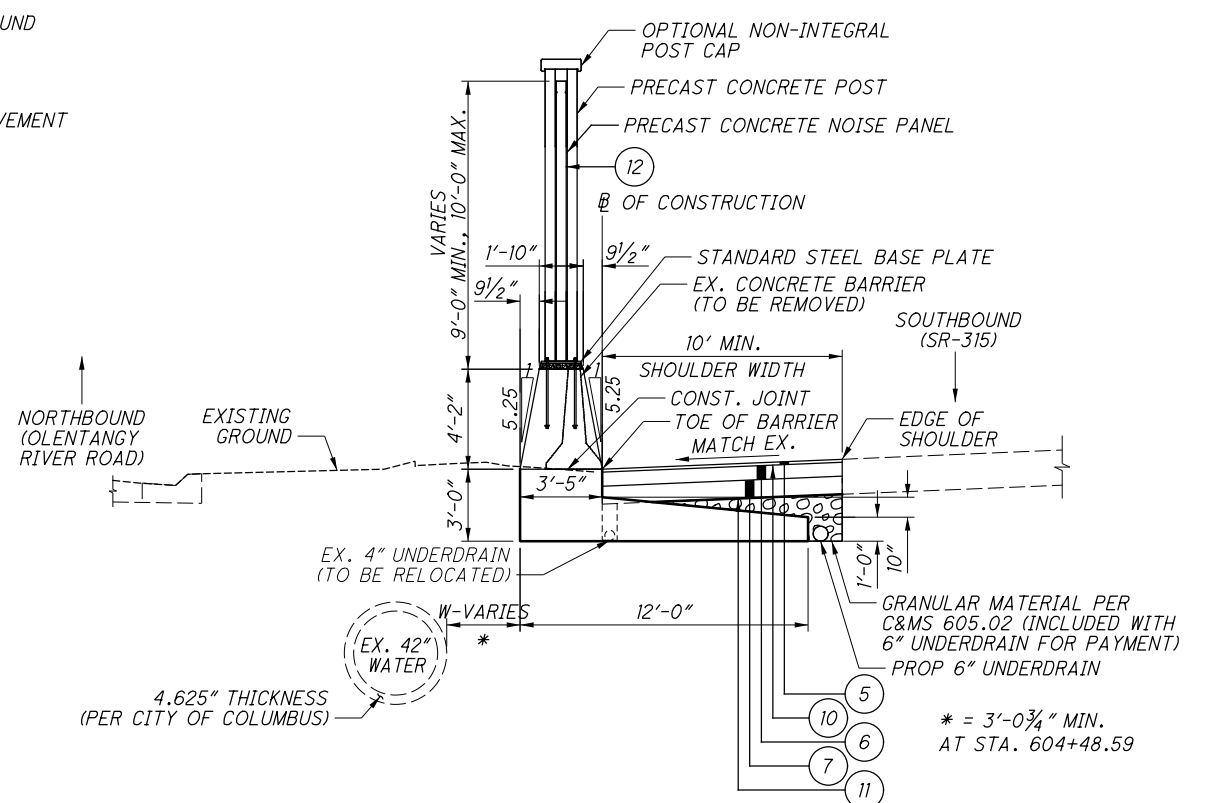
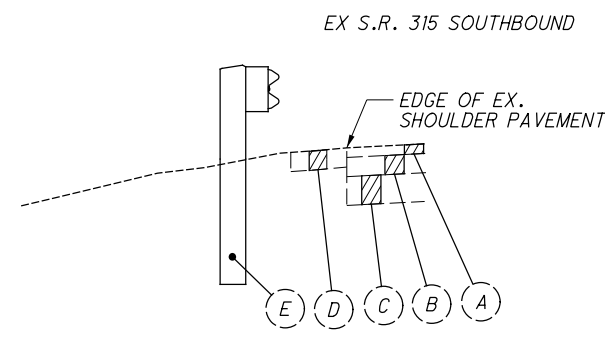
- 1** ITEM 606 - SPECIAL - NOISE BARRIER (REFLECTIVE)
- 2** ITEM 524 - DRILLED SHAFTS (TO BE PAID WITH ITEM 606 - SPECIAL - NOISE BARRIER)
- 3** ITEM 659 - SEEDING AND MULCHING
- 4** ITEM 609 - CURB, TYPE 4-C
- 5** ITEM 441 - 1 1/2" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, (446), PG64-22
- 6** ITEM 301 - 7" ASPHALT CONCRETE BASE, PG64-22
- 7** ITEM 304 - 9" AGGREGATE BASE
- 8** ITEM 605 - 6" UNCLASSIFIED UNDERDRAIN
- 9** ITEM 606 - GUARDRAIL, TYPE MGS
- 10** ITEM 407 - TACK COAT
- 11** ITEM 204 - SUBGRADE COMPACTION
- 12** ITEM SPECIAL - NOISE BARRIER: BARRIER MOUNTED NOISE WALL
- 13** ITEM 606 - GUARDRAIL, MISC.: GUARDRAIL PANELS REMOVED AND REATTACHED

EXISTING PAVEMENT

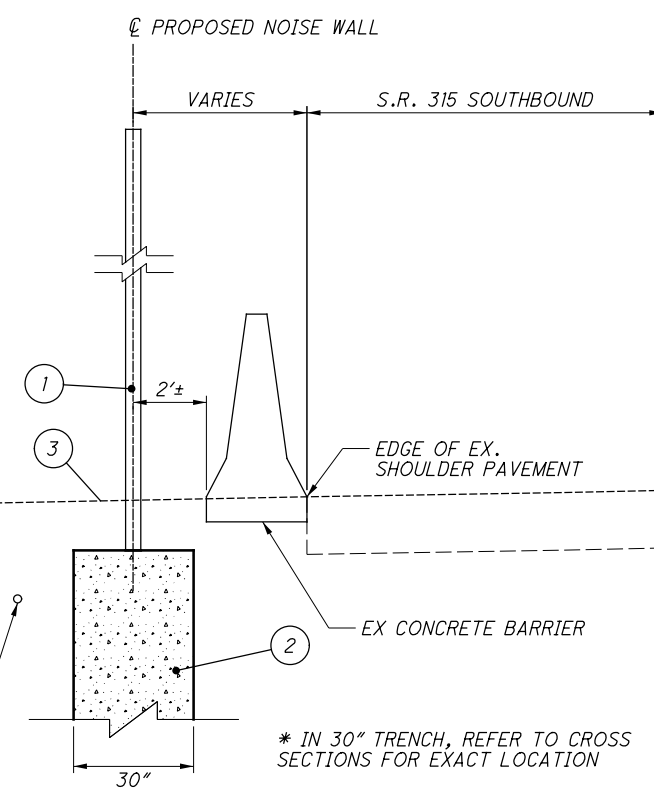
- A** ITEM 446 - 1 1/2" ASPHALT CONCRETE, SURFACE COURSE, TYPE AC-20
- B** ITEM 301 - 7" BITUMINOUS AGGREGATE BASE, AC-20
- C** ITEM 304 - 9" AGGREGATE BASE
- D** ITEM 411 - STABILIZED CRUSHED AGGREGATE
- E** ITEM 606 - GUARDRAIL, TYPE 5

NOTE:
SEE SHEET 54 FOR NOISE WALL MATERIAL AND ARCHITECTURAL SURFACE TREATMENTS

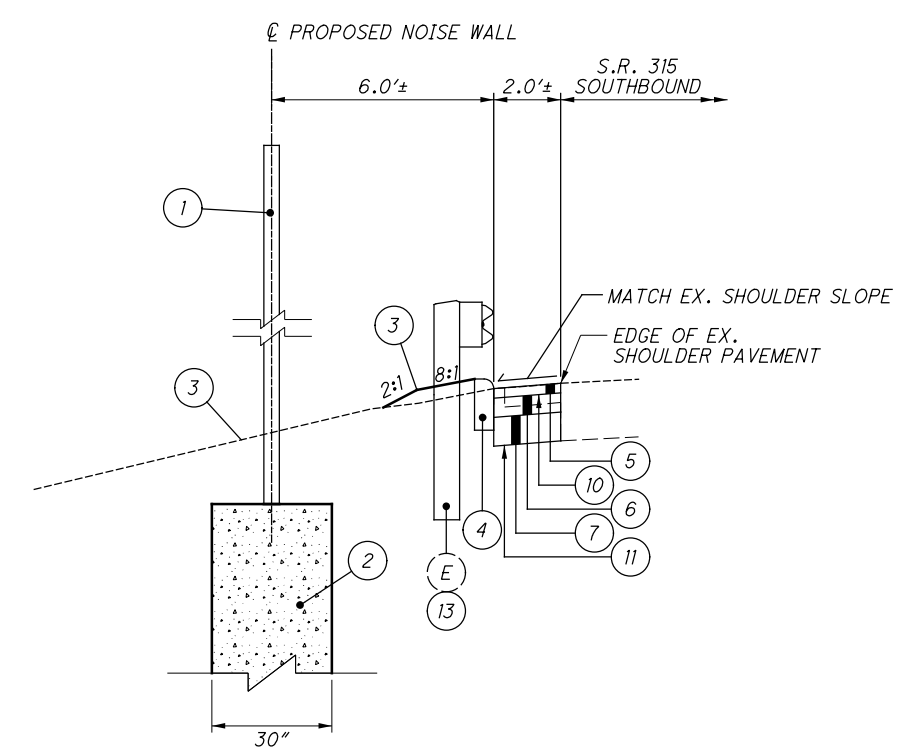
WALL 4 - STA. 400+00 TO STA. 403+51.67



CONCRETE BARRIER WALL 6 - STA. 600+48.84 TO STA. 610+12.65
CONCRETE BARRIER WALL 6 - STA. 610+22.65 TO STA. 614+91.02
NOISE WALL 6 - STA. 600+50.84 TO STA. 610+09.11
NOISE WALL 6 - STA. 610+26.15 TO STA. 614+89.05



WALL 4 - STA. 403+51.67 TO STA. 409+76
WALL 5 - STA. 504+56 TO STA. 505+81



WALL 5 - STA. 505+81 TO STA. 517+27
NOTE: WALL 5 ENDS AT STA. 517+20. CONTINUE CURB AND ASSOCIATED PAVEMENT REPLACEMENT TO STA. 517+27.

TYPICAL SECTIONS - S.R. 315

FRA-315-7.13 NOISE WALLS

UTILITIES

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.

WIDE OPEN WEST
3765 CORPORATE DR
COLUMBUS, OH 43231
CONTACT: STEVE CALLAHAN
PHONE: (614) 948-4636
EMAIL: steven.callahan@wowinc.com

ODOT ITS (NON-OWPS MEMBER)
1606 W BROAD ST
COLUMBUS, OH 43223
PHONE: (614) 387-4113
FAX: (614) 887-4134
EMAIL: cen.its.lab@dot.ohio.gov

COLUMBIA GAS OF OHIO
3550 JOHNNY APPLESEED COURT
COLUMBUS, OH 43231
CONTACT: ROB CALDWELL
PHONE: (614)818-2108
EMAIL: rcaldwell@nisource.com

CITY OF COLUMBUS
DPU - DIVISION OF SEWERAGE AND DRAINAGE
SEWER MAINTENANCE MANAGER
1250 FAIRWOOD AVE
COLUMBUS, OH 43206
PHONE: (614) 645-7102

AEP - DISTRIBUTION UNDERGROUND
1 RIVERSIDE PLAZA, 12TH FLOOR
COLUMBUS, OH 43215
CONTACT: PAT FEENEY
PHONE: (614) 883-6901
EMAIL: pfeeney@aep.com

CITY OF COLUMBUS
DIVISION OF POWER
3500 INDIANOLA AVE
COLUMBUS, OH 43214
PHONE: (614) 645-7627

AEP - TRANSMISSION
700 MORRISON RD
GAHANNA, OH 43230
CONTACT: JIM KING
PHONE: (614) 460-0107
EMAIL: jrking@aep.com

CITY OF COLUMBUS
DIVISION OF WATER
910 DUBLIN RD
COLUMBUS, OH 43215
PHONE: (614) 645-7788

AEP - AERIAL DISTRIBUTION
850 TECH CENTER DR
GAHANNA, OH 43230-6605
CONTACT: PAUL PAXTON
PHONE: (614) 883-6831
EMAIL: ptpaxton@aep.com

CITY OF COLUMBUS
DEPARTMENT OF TECHNOLOGY
1355 MCKINLEY AVE
BUILDING C
COLUMBUS, OH 43222
PHONE: (614) 645-7756

AT&T - OHIO
111 NORTH 4TH STREET
ROOM 802
COLUMBUS, OH 43204
CONTACT: GARY VAN ALMSICK
PHONE: (614) 223-7276
EMAIL: gv2758@att.com

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC SERVICE
TRAFFIC MANAGEMENT
1820 E 17TH AVE
COLUMBUS, OH 43219
PHONE: (614) 645-7393

AL RIVERA
PHONE: (614) 223-8903
EMAIL: ar8341@att.com

MIKE LEE
PHONE: (614) 223-6783
EMAIL: ml3453@att.com

MIKE LEPLY
PHONE: (614) 223-5872
EMAIL: t19569@att.com

CITY OF COLUMBUS
SUPPORT SERVICES DIVISION - COMMUNICATIONS
4211 GROVES RD
COLUMBUS, OH 43232
PHONE: (614) 724-7047

CHARTER
3760 INTERCHANGE DR
COLUMBUS, OH 43204
CONTACT: RAY MAURER
PHONE: (614) 481-5262
EMAIL: ray.maurer@charter.com

SAM LUTZ
PHONE: (614) 481-5047
EMAIL: samuel.lutz@charter.com

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

EXISTING PLANS

EXISTING PLANS ENTITLED FRA-315-5.18 MAY BE INSPECTED IN THE ODOT DISTRICT 6 OFFICE IN DELAWARE, OH.

NOTE TO CONTRACTOR REGARDING EXISTING FIRE HYDRANT ACCESS DURING CONSTRUCTION

ACCESS FOR EMERGENCY USAGE OF ALL FIRE HYDRANTS IS REQUIRED AT ALL TIMES DURING PLAN CONSTRUCTION. AT NO TIME SHALL THE ODOT CONTRACTOR BLOCK ACCESS TO ANY FIRE HYDRANT DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: STATIC GNSS
MONUMENT TYPE: (B)

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83(2011)EPOCH:2010.0000
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE (SOUTH) ZONE
COMBINED SCALE FACTOR: 1.00002761
ORIGIN OF COORDINATE SYSTEM: 0,0

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 MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY

PERMITS

WHEN OCCUPYING OR EXCAVATING WITHIN COLUMBUS PUBLIC RIGHT OF WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION AND OCCUPANCY PERMIT FROM THE CITY OF COLUMBUS, DEPARTMENT OF PUBLIC SERVICE - PERMIT OFFICE BETWEEN THE HOURS OF 7:30 AM AND 4:00 PM MONDAY THROUGH FRIDAY. PHONE: (614) 645-7497; FAX: (614) 645-1876; EMAIL: colspemits@columbus.gov

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

ITEM 524 - DRILLED SHAFTS

THIS ITEM PERTAINS TO WALLS 4 AND 5.

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 UNLESS OTHERWISE NOTED, AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 606 - SPECIAL - NOISE BARRIER

THIS ITEM WILL BE USED TO INSTALL REFLECTIVE CONCRETE NOISE PANELS IN WALLS 4 AND 5. SEE SHEET 54 FOR COLOR, TEXTURE, AND LOCATION OF INSTALLATION.

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

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

NOTE TO CONTRACTOR REGARDING EXTRA CARE NOT TO DAMAGE UTILITY LINES

THE CONTRACTOR IS TO USE EXTRA CARE NOT TO DAMAGE UTILITY LINES THAT ARE TO REMAIN AND NOTED ON THE PLANS AS DO NOT DISTURB (DND). IF DAMAGE OCCURS TO THESE LINES DUE TO THE CONTRACTOR'S NEGLIGENCE OR MISHANDLING, THE DAMAGED SECTIONS ARE TO BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, AS DIRECTED BY THE ENGINEER. REFER TO PAGES 31-38 FOR LOCATIONS AND COVER DEPTHS TO THE TOP OF THE NOTED UTILITY LINES.

STORM SEWER CONTINGENCY QUANTITIES

THE BELOW ESTIMATED CONTINGENCY QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER, IN THE EVENT THAT THE PRE-CONSTRUCTION VIDEO (SEE ITEM 611 - CONDUIT, MISC.: STORM SEWER PROTECTION) FINDS DAMAGE TO THE EXISTING CONDUITS AT THE FOLLOWING LOCATIONS:

- o STA. 603+78 TO STA. 604+48
- o STA. 607+27
- o STA. 610+61 TO STA. 611+20

ITEM 611 - 24" CONDUIT, TYPE B, 706.02 15 LF
ITEM 611 - 18" CONDUIT, TYPE B, 706.02 40 LF
ITEM 611 - 12" CONDUIT, TYPE B, 706.02 30 LF

ITEM 611 - CONDUIT, MISC.: STORM SEWER PROTECTION

THE CONTRACTOR SHALL BE REQUIRED TO VIDEO INSPECT THE FOLLOWING STORM SEWER CONDUITS BOTH PRE AND POST CONSTRUCTION:

- o STA. 603+78 TO 604+48 (ESTIMATED 70 FEET OF EX 12")
- o STA. 607+27 (ESTIMATED 30 FEET OF EX. 15")
- o STA. 610+61 TO STA 611+20 (ESTIMATED 40 FEET OF EX. 18" AND 15 FEET OF EX. 24")

THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER AT LEAST 7 DAYS PRIOR TO ANY VIDEO WORK. THE PRE-CONSTRUCTION VIDEO SHALL BE PERFORMED PRIOR TO ORDERING ANY MATERIALS NECESSARY TO CONSTRUCT THE PROPOSED NOISE BARRIER. ONE (1) COPY OF THE VIDEO INSPECTION SHALL BE PROVIDED TO THE PROJECT ENGINEER FOR REVIEW. IF DAMAGE IS FOUND IN THE PRE-CONSTRUCTION VIDEO, THE CONTRACTOR SHALL DOCUMENT THE DAMAGE AND PROVIDE DOCUMENTATION TO THE PROJECT ENGINEER. IF DAMAGE IS FOUND IN THE POST-CONSTRUCTION VIDEO, THEN REPAIRS TO THE SATISFACTION OF THE DEPARTMENT SHALL BE PERFORMED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.

ALL LABOR, MATERIAL, AND INCIDENTALS FOR THE ABOVE WORK SHALL BE PAID FOR BY LUMP SUM, ITEM 611 - CONDUIT, MISC.: STORM SEWER PROTECTION

ITEM 638 WATER WORK, MISC.: CITY OF COLUMBUS DIVISION OF WATER 42" WATERLINE PROTECTION

THE CONTRACTOR SHALL BE REQUIRED TO PROTECT THE 42" WATERLINE FACILITY LOCATED WITHIN THE PROJECT LIMITS. FURTHERMORE, SPECIAL CARE MUST BE TAKEN TO ASSURE NO HARM TO THE 42" WATERLINE INCLUDING THE FOLLOWING PROVISIONS:

1.) PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL BE REQUIRED TO CONFIRM THE WATERLINE LOCATION BETWEEN THE FOLLOWING LIMITS:

- o WALL 4 STA. 403+00 TO 409+76
- o WALL 4 STA. 406+44.20 (NEXT TO PROP. DMS SIGN FOUNDATION)
- o WALL 5 STA. 504+56 TO STA 505+00
- o WALL 6 ENTIRE LIMITS

AIRVAC METHODS SHALL BE REQUIRED (SUE QUALITY LEVEL A) TO CONFIRM THE UTILITY LOCATION. THE SUE COMPANY UTILIZED BY THE CONTRACTOR SHALL BE REQUIRED TO BE PRE-QUALIFIED WITH THE OHIO DEPARTMENT OF TRANSPORTATION.

2.) PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL PROVIDE THE SUE LOCATE CONFIRMATION DATA TO ODOT AND THE COC DIVISION OF WATER A MINIMUM OF 21 DAYS PRIOR TO COMMENCING WORK.

3.) ALL WORK ACTIVITIES WITHIN 20 FEET HORIZONTAL DISTANCE TO THE WATERLINE'S CLOSEST OUTSIDE DIAMETER SHALL BE COORDINATED WITH ODOT AND THE CITY OF COLUMBUS DIVISION OF WATER 21 DAYS PRIOR TO COMMENCING WORK.

4.) THE CONTRACTOR SHALL PROHIBIT CONSTRUCTION EQUIPMENT NECESSARY TO REMOVE THE DMS STRUCTURE AND FOUNDATION; CONSTRUCT THE NEW DMS STRUCTURE; BUILD NOISE WALLS 4, 5, 6; AND BUILD WALL 6 FROM OPERATING WITHIN 3 FEET HORIZONTAL DISTANCE TO THE WATERLINE'S CLOSEST OUTSIDE DIAMETER. IN ADDITION, CONTRACTOR ACCESS TO PERFORM THESE WORK TASKS SHALL BE LIMITED TO SR-315.

ALL LABOR, MATERIAL AND INCIDENTALS FOR THE ABOVE WORK SHALL BE PAID FOR BY LUMP SUM, ITEM 638, WATER WORK, MISC.: CITY OF COLUMBUS DIVISION OF WATER 42" WATERLINE PROTECTION.

ITEM 611 - CONDUIT, MISC.: EXISTING 36" SANITARY SEWER LINE LOCATES

THE CONTRACTOR SHALL PERFORM HORIZONTAL AND VERTICAL LINE LOCATE OF THE EXISTING 36" SANITARY LINES LOCATED AT APPROXIMATE STATIONS 402+26 (SEE PAGE 31) AND 510+31 (SEE PAGE 37). THE LOCATES SHALL BE PERFORMED AT THE LOCATION THE EXISTING SANITARY LINE(S) CROSS THE PROPOSED NOISE WALL. AIRVAC METHODS SHALL BE REQUIRED (SUE QUALITY LEVEL A) TO CONFIRM THE UTILITY LOCATION. THE SUE COMPANY UTILIZED BY THE CONTRACTOR SHALL BE REQUIRED TO BE PRE-QUALIFIED WITH THE OHIO DEPARTMENT OF TRANSPORTATION. THIS WORK SHALL BE PERFORMED PRIOR TO ORDERING ANY MATERIALS NECESSARY TO CONSTRUCT THE PROPOSED NOISE BARRIER.

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 611, CONDUIT, MISC.: EXISTING 36" SANITARY SEWER LINE LOCATES.

CALCULATED
BSS
CHECKED
RMH

GENERAL NOTES

FRA-315-7.13
NOISE WALLS

4
80

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PAVEMENT CUTTING, SAWING AND EXCAVATION OPERATIONS

ALL PUBLIC AGENCIES AND PRIVATE CONTRACTORS PERFORMING PAVEMENT-CUTTING OPERATIONS ON CITY OF COLUMBUS STREETS AND ROADWAYS SHALL PROTECT THE ENVIRONMENT FROM DISCHARGES CREATED BY THEIR PAVEMENT CUTTING OPERATIONS. NOTE THAT COLUMBUS CITY CODE 1145 PROHIBITS NON-STORMWATER DISCHARGE INTO THE CITY OF COLUMBUS SEWER SYSTEM, CURB INLETS AND ANY PART OF IT'S MS4 (MUNICIPAL SEPARATE STORM SEWER SYSTEM).

THE REQUIREMENT INCLUDES BUT IS NOT LIMITED TO WET OR DRY SAW-CUTTING, JACK HAMMERING, EXCAVATION EQUIPMENT USE, ETC. THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR WORK CREWS SHALL RECOVER AND DISPOSE OF DETRITUS, POLLUTED WATERS, OR OTHER SUCH DISCHARGES RESULTING FROM THEIR PAVEMENT CUTTING OPERATIONS AND PROTECT ALL STORM SEWER INLETS FROM RECEIVING ANY DISCHARGES FROM THE CONSTRUCTION OPERATIONS. THE AGENCY OR CONTRACTOR RESPONSIBLE FOR EACH PAVEMENT CUTTING ACTIVITY SHALL BE SOLELY LIABLE FOR NOTICE OF VIOLATIONS (NOV/S) AND FINES ISSUED BY CITY OF COLUMBUS AND/OR STATE OF OHIO AUTHORITIES.

EQUIPMENT, MATERIALS AND METHODS SHALL BE PROVIDED BY THE RESPONSIBLE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR TO WORK CREWS PERFORMING THE PAVEMENT CUTTING ACTIVITY AND MADE AVAILABLE TO WORK CREWS FOR USE IN CLEANING UP DISCHARGES RESULTING FROM SUCH CUTTING ACTIVITIES AND PREVENTING RUNOFF. ALL WORK CREWS SHALL BE TRAINED TO EXERCISE AND EMPLOY EQUIPMENT, MATERIALS, AND ENVIRONMENTAL PROTECTIVE MEASURES TO PREVENT POLLUTED DISCHARGES FROM ENTERING THE CITY OF COLUMBUS STORM SEWER SYSTEM AND WATERS OF THE STATE OF OHIO.

THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE INLET PROTECTION IS ADEQUATE. THE MOST STRINGENT PROJECT PLANS, NOTES AND/OR DRAWINGS INCLUDING STORMWATER POLLUTION PREVENTION PLAN (SWP3) OR SPILL PREVENTION/REMEDATION PLAN SHALL APPLY TO ALL PAVEMENT CUTTING, SAWING OR EXCAVATION OPERATIONS.

EXISTING ODOT ITS FACILITIES

A CLEARANCE OF 18 INCHES FROM ALL ODOT ITS CONDUITS SHALL BE MAINTAINED WHEREVER POSSIBLE. ACCORDING TO FIELD LOCATES, ITS FACILITIES FROM STA 600+33.76 TO STA 604+22.78 APPEAR TO BE LESS THAN 18 INCHES FROM THE PROPOSED NOISE BARRIER. THE CONTRACTOR SHALL EXERCISE CAUTION IN ORDER TO NOT DISTURB THE EXISTING CONDUIT, PULL BOX, AND CABINET IN THIS AREA. THE CONDUIT LOCATED AT APPROXIMATELY STA 604+15, RUNNING FROM THE PULL BOX UNDER 315, SHALL BE HAND DUG AND EXPOSED TO VERIFY DEPTH, AND ENCASED THROUGH THE PROPOSED BARRIER FOOTER AS DETAILED ON SHEET 61. ANY DAMAGE TO THE PULL BOXES, CABINETS OR CONDUIT SHALL BE AT THE CONTRACTOR'S EXPENSE.

ITS DOWNTIME GENERAL PLAN NOTE

REFER TO SUPPLEMENTAL SPECIFICATION 809 FOR ITS DOWNTIME REQUIREMENTS. ALL ODOT ITS INFRASTRUCTURE SHALL BE MAINTAINED AND NOT DISTURBED UNLESS NOTED IN THE PLANS.

SPECIFIC SERVICE AND TOURIST-ORIENTED DIRECTIONAL SIGNS REMOVAL

THE CONTRACTOR SHALL CAREFULLY REMOVE THE SPECIFIC SERVICE (LOGO) SIGNS AND TOURIST-ORIENTED DIRECTIONAL SIGNS (TODS) LOCATED NEAR STA. 608+08 & STA. 515+00, AS SHOWN ON PLAN SHEETS 34 & 38. REMOVED LOGO SIGNS AND TODS SHALL NOT BE RE-ERECTED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE SUPPORTS AND FOUNDATIONS IN ACCORDANCE WITH ITEM 630.12. THE CONTRACTOR SHALL NOTIFY OHIO LOGOS, INC. AT (800) 860-5646 TO COORDINATE THE RETURN OF THE REMOVED SIGNS TO OHIO LOGOS, INC.

THIS ITEM OF WORK INCLUDES REMOVAL OF LOGO SIGNS AND TODS, REMOVAL AND DISPOSAL OF THE ORIGINAL SUPPORTS AND FOUNDATIONS, AND PROVIDING NOTIFICATION TO OHIO LOGOS, INC. THIS WORK WILL BE INCLUDED IN THE LUMP SUM PAYMENT FOR ITEM 614, MAINTAINING TRAFFIC.

FOR THE DIVISION OF POWER

THE DIVISION OF POWER (DOP) MAY HAVE UNDERGROUND AND OVERHEAD PRIMARY, SECONDARY, 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. 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 1000.18 OF THE CMSC MANUAL. THE CONTRACTOR SHALL CONFORM TO DOP'S EXISTING CONDUCTOR SAFETY POLICY AND HOLD CARD SYSTEM, MIS-95, COPIES OF WHICH ARE AVAILABLE FROM DOP.

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 606 GUARDRAIL, MISC.: GUARDRAIL PANELS REMOVED AND REATTACHED

THE FOLLOWING PAY ITEM HAS BEEN PROVIDED TO FACILITATE PLACEMENT OF THE TYPE 4C CURB AND THE SHOULDER PAVEMENT RECONSTRUCTION ALONG NOISE WALL 5 (STA. 505+81 TO 517+27).

BETWEEN THE STATION LIMITS OF 513+70 TO 517+27, THE NEW CURB AND SHOULDER PAVEMENT SHALL BE CONSTRUCTED DURING MAINTENANCE OF TRAFFIC PHASE 1 IN ACCORDANCE WITH THE UNAUTHORIZED LANE USE TABLE. HOWEVER, THE CONTRACTOR SHALL BE LIMITED PER WORK SHIFT TO ONLY CONSTRUCT ENOUGH CURB AND SHOULDER PAVEMENT RECONSTRUCTION (THRU THE 304 AGGREGATE BASE AND/OR MAXIMUM 12" TRENCH) THAT WILL ALLOW THE GUARDRAIL PANELS TO BE REATTACHED PRIOR TO NORMAL TRAFFIC LANES REOPENING.

BETWEEN THE STATION LIMITS OF 505+81 TO 513+70, THE GUARDRAIL PANELS WILL BE REMOVED AND REATTACHED DURING MAINTENANCE OF TRAFFIC PHASE 2. ALL PANELS MUST BE REATTACHED PRIOR TO NORMAL TRAFFIC LANES REOPENING.

UNLESS SEPARATE PAY ITEMS ARE ITEMIZED WITHIN THE PLAN SET, ALL LABOR, MATERIAL, AND INCIDENTALS FOR THE ABOVE WORK SHALL BE PAID FOR BY LINEAR FOOT OF ITEM 606, GUARDRAIL, MISC.: GUARDRAIL PANELS REMOVED AND REATTACHED.

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.

FENCE LENGTHS

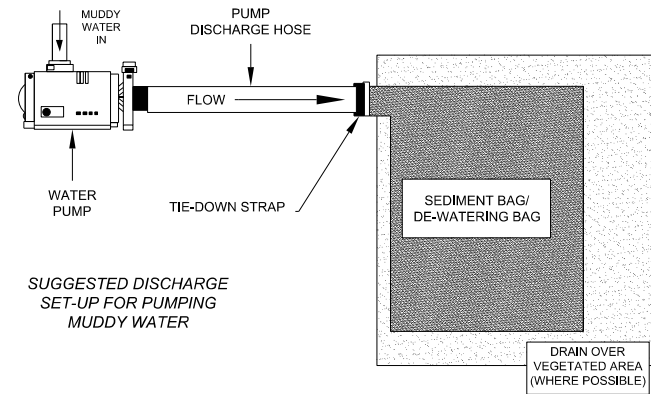
THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

DISCHARGE SET-UP FOR PUMPING MUDDY WATER

THE PUMPING OF DIRECT DISCHARGE OF SEDIMENT-LADEN (MUDDY) WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS.

ALL INLETS RECEIVING FLOW FROM RUNOFF, PUMPING ACTIVITIES, OR OTHER DIRECT DISCHARGES SHALL BE FITTED WITH AN INLET PROTECTION DEVICE THAT IS PROPERLY SIZED AND SECURED TO REDUCE THE DISCHARGE OF SEDIMENT INTO THE STORM SEWER SYSTEM AND RECEIVING STREAM. INLET PROTECTION IS REQUIRED ON ALL INLETS RECEIVING DISCHARGE REGARDLESS OF WHETHER OR NOT-THE INLET IS TRIBUTARY TO ANY DOWNSTREAM EROSION AND SEDIMENT CONTROLS.

DISCHARGE HOSES USED DURING PUMPING ACTIVITIES SHALL BE FITTED WITH SEDIMENT BAGS THAT ARE PROPERLY SIZED PER MANUFACTURER'S RECOMMENDATIONS REGARDLESS OF WHAT OTHER SEDIMENT CONTROLS ARE IN PLACE FURTHER DOWNSTREAM. SEDIMENT BAGS MUST BE PROPERLY SECURED TO THE DISCHARGE HOSE AND PLACED OVER VEGETATED AREAS, WHERE FEASIBLE, DURING DISCHARGE.



ENVIRONMENTAL COMMITMENT NOTES

PUBLIC INVOLVEMENT

FOR THE PURPOSES OF KEEPING LOCAL RESIDENTS INFORMED, THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE WITH THE ENGINEER ANY PROPOSED MATERIAL/ARCHITECTURAL SURFACE TREATMENT PLAN CHANGES (IF ANY) FROM THE ORIGINAL PLAN DESIGN (SEE PAGE 54). PAYMENT FOR THE ABOVE COORDINATION EFFORT SHALL NOT BE A SEPARATE PAY ITEM, BUT SHALL BE INCIDENTAL TO THE COST OF NOISE BARRIER INSTALLATION.

WATER QUALITY

THE CONTRACTOR SHALL BE REQUIRED TO PERFORM CUSTOMARY MEASURES TO PROTECT WATER QUALITY DURING THE CONSTRUCTION OF THIS PROJECT. REFER TO GENERAL NOTES ON THIS SHEET (EROSION AND SEDIMENT CONTROL / DISCHARGE SET-UP FOR PUMPING MUDDY WATER) FOR MINIMUM REQUIREMENTS. PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 832 EROSION CONTROL.

EROSION AND SEDIMENT CONTROL

EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AS PART OF THIS PROJECT. EROSION AND SEDIMENT CONTROL MEASURES AND QUANTITIES SPECIFIC TO THIS SITE MAY BE FOUND IN THE GENERAL SUMMARY OF THIS PLAN. LAND-DISTURBING ACTIVITIES MUST COMPLY WITH ALL PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENT CONTROL REGULATION. ALL LAND-DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF COLUMBUS AND/OR THE OHIO EPA.

ALL EROSION SEDIMENTATION CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATIONS AT THE DISCRETION OF THE CITY OF COLUMBUS, PROJECT ENGINEER AND/OR THE OHIO EPA.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE CITY OF COLUMBUS TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF INITIAL SITE LAND DISTURBANCE ON ANY SITE OF ONE (1) OR MORE ACRES. THIS INCLUDES SITE CLEARING, GRUBBING, AND ANY EARTH MOVING. PRIMARY EROSION AND SEDIMENT CONTROL PRACTICES ARE MANDATED BY REGULATIONS TO BE IN PLACE FROM THE BEGINNING OF THE CONSTRUCTION ACTIVITY. PLEASE CONTACT THE STORMWATER MANAGEMENT OFFICE AT 614-645-6700 OR BY FAX AT 614-645-1506. DETAILS OF THIS REQUIREMENT MAY BE FOUND IN THE EROSION AND SEDIMENT POLLUTION CONTROL REGULATION (ADOPTED JUNE 1, 1994). FAILURE TO COMPLY MAY RESULT IN ENFORCEMENT ACTION AS DETAILED IN THE COLUMBUS CITY CODES SECTION 1145.80.

THE NPDES PERMIT HOLDER SHALL PROVIDE QUALIFIED PERSONNEL TO CONDUCT SITE INSPECTIONS ENSURING PROPER FUNCTIONALITY OF THE EROSION AND SEDIMENTATION CONTROLS. ALL EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSPECTED ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A 0.5" STORM EVENT OR GREATER THAT OCCURS OVER A 24 HOUR PERIOD. RECORDS OF THE SITE INSPECTIONS SHALL BE KEPT BY THE CONTRACTOR AND MADE AVAILABLE TO JURISDICTIONAL AGENCIES IF REQUIRED.

THIS PLAN MUST BE POSTED ON SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON SITE AT ALL TIMES.

ODOT DISTRICT MS4 LIAISON
ONSITE CONTACT: JON R ADAMS
PHONE: (740) 833-8187
EMAIL: jon.adams@dot.ohio.gov
SITE IS TRIBUTARY TO: OLENTANGY RIVER

CONVENTIONAL SYMBOLS

County Line	-----	Ditch / Creek (Ex)	-----
Township Line	-----	Ditch / Creek (Pr)	-----
Section Line	-----	Tree Line (Ex)	-----
Corporation Line	----- or -----	Ownership Hook Symbol	----- Example -----
Fence Line (Ex)	----- x----- x----- (Pr) ----- x----- x-----	Property Line Symbol	----- Example -----
Center Line	-----	Break Line Symbol	----- Example -----
Right of Way (Ex)	----- Ex R/W -----	Tree (Pr)	----- Tree (Ex) -----, Shrub (Ex) -----
Right of Way (Pr)	----- R/W -----	Tree (Remove)	-----, Shrub (Remove) -----
Standard Highway Ease.(Ex)	----- Ex SH -----	Evergreen (Ex)	-----, Stump -----
Temporary Right of Way	----- TMP -----	Evergreen (Remove)	-----, Stump (Remove) -----
Channel Ease. (Pr)	----- CH -----	Wetland (Pr)	-----, Grass (Pr) -----, Aerial Target -----
Utility Ease. (Ex)	----- Ex U -----	Post (Ex)	-----, Mailbox (Ex) -----, Mailbox (Pr) -----
Railroad	----- or -----	Light (Ex)	-----, Telephone Marker (Ex)+TEL -----
Guardrail (Ex)	----- (Pr) -----	Fire Hydrant (Ex)	-----, Water Meter (Ex) -----
Construction Limits	-----	Water Valve (Ex)	-----, Utility Valve Unknown (Ex.) -----
Edge of Pavement (Ex)	-----	Telephone Pole (Ex)	-----, Power Pole (Ex) -----
Edge of Pavement (Pr)	-----	Light Pole (Ex)	-----
Edge of Shoulder (Ex)	-----		
Edge of Shoulder (Pr)	-----		

CALCULATED BSS CHECKED RMH
GENERAL NOTES
FRA -315-7.13
NOISE WALLS
5
80
E-3498

ITEM 614, MAINTAINING TRAFFIC

SR-315 - PHASE 1
CLOSING ONE LANE OF SR-315 SB AND A CLOSURE OF THE HENDERSON RD ENTRANCE RAMP TO SR-315 SB DURING ALLOWABLE HOURS WILL BE USED TO CONSTRUCT THE NEW NOISE BARRIER WALL 4 AND A PORTION OF WALL 5 ALONG SR-315 SB BETWEEN HENDERSON RD AND GARRETT DR. REMOVAL OF EXISTING DYNAMIC MESSAGE SIGN ALONG SR-315 SB AND REPLACEMENT WITH PROPOSED PEDESTAL MOUNTED SIGN WILL ALSO OCCUR DURING THIS PHASE.

SR-315 - PHASE 2
THREE LANES OF SR-315 SB WILL BE MAINTAINED USING LANE SHIFTS TO CONSTRUCT THE NEW NOISE BARRIER WALL 6 AND A PORTION OF WALL 5 ALONG SR-315 SB BETWEEN HENDERSON RD AND GARRETT DR.

OLENTANGY RIVER ROAD - PHASE 1
ONE LANE OF NB OLENTANGY RIVER RD WILL BE CLOSED DURING ALLOWABLE HOURS TO INSTALL NEW RUN OF GUARDRAIL ALONG OLENTANGY RIVER RD BETWEEN HENDERSON RD AND GARRETT DR.

OLENTANGY RIVER ROAD - PHASE 2
ALL LANES ALONG OLENTANGY RIVER RD WILL BE MAINTAINED. THE MEDIAN ALONG THE EAST SIDE OF OLENTANGY RIVER RD WILL BE CLOSED FOR WORK ADJACENT TO THE PROPOSED NOISE WALL.

ITEM 614, MAINTAINING TRAFFIC (LANE CLOSURE/REDUCTION REQUIRED)

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)

NOTICE OF CLOSURE SIGNS, AS DETAILED IN THESE PLANS, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD OR RAMP CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

ITEM 614, MAINTAINING TRAFFIC (ROAD CLOSED SIGN)

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

- OLENTANGY RIVER ROAD RAMP TO SOUTHBOUND S.R. 315

ITEM 614, MAINTAINING TRAFFIC (SIGNS AND BARRICADES)

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS SHOWN IN THE PLANS.

WORK ZONE INCREASED PENALTIES SIGN (R11-H5A)

R11-H5A-48 SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED IN GOOD CONDITION AND/OR REPLACED AS NECESSARY AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. SIGNS SHALL BE MOUNTED AT THE APPROPRIATE OFFSETS AND ELEVATIONS AS PRESCRIBED BY THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THEY SHALL BE MAINTAINED ON SUPPORTS MEETING CURRENT SAFETY CRITERIA.

THE SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE CONSECUTIVE CALENDAR DAYS, SUCH AS DURING WINTER SHUTDOWNS.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE RETROREFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF C&MS 730.19.

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION AS DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK, AND REMOVAL OF THE SIGN AND SUPPORT.

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN 4 EACH

WORK ZONE INCREASED PENALTIES SIGNS WILL BE PLACED AT THE FOLLOWING LOCATIONS:

- IN ADVANCE OF THE WORK ZONE ON S.R. 315 SB

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE (OFFICE OF MATERIALS MANAGEMENT WEB PAGE). THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS ARE SHOWN ON SHEETS 9 AND 13 OF THE PLAN. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 4 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE. THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 8 SIGN MONTH ASSUMING 2 PCMS SIGN(S) FOR 4 MONTH(S)

ITEM 614, DETOUR SIGNING

SIZE AND PLACEMENT OF DETOUR SIGNS (M4-9) SHOULD FOLLOW THE REQUIREMENTS OF THE OMUTCD SECTION 6F.03, SECTION 2A.11 AND TABLE 6F.01. DETOUR SIGNING SHALL PROVIDE DRIVERS ADEQUATE TIME TO CLEARLY READ THE SIGNS AND MAKE THE PROPER DECISIONS AT EACH REQUIRED TURNING MOVEMENT. THE DESIGNATED DETOUR ROUTE SHALL BE SIGNED IN ACCORDANCE WITH THE REQUIREMENTS BELOW:

- APPROXIMATELY 1500 FEET PRIOR TO TIP OF THE PAINTED GORE AT AN INTERCHANGE WHEN EXITING A HIGH SPEED (45 MPH OR HIGHER) FACILITY.
- AT OR NEAR THE EXISTING SIGN IN THE GORE OF AN INTERCHANGE RAMP.
- AT OR NEAR THE FIRST EXISTING LANE ASSIGNMENT SIGN ON AN INTERCHANGE EXIT RAMP.
- AT OR NEAR THE EXISTING LANE ASSIGNMENT SIGN OR EXISTING ROUTE MARKER AT THE END OF AN EXIT RAMP.
- APPROXIMATELY 500 FEET PRIOR TO A REQUIRED TURN AT AN INTERSECTION NOT CONTROLLED BY A STOP SIGN (FOR 45 MPH OR HIGHER ONLY).
- AT OR NEAR THE EXISTING LANE ASSIGNMENT SIGN OR EXISTING ROUTE MARKER AT AN INTERSECTION.
- EVERY TWO MILES ALONG A TANGENT SECTION BETWEEN TURNING MOVEMENTS OUTSIDE A CITY.
- EVERY TWO BLOCKS ALONG A TANGENT SECTION BETWEEN TURNING MOVEMENTS WITHIN A CITY.
- AT ANY OTHER INTERSECTION OR DECISION POINT WHERE THE DETOUR ROUTE IS CONTRARY TO THE NORMAL, EXPECTED TURNING MANEUVER OR OTHERWISE UNCLEAR.

DETOUR SIGNS SHALL BE PLACED, WHEN POSSIBLE, NEXT TO BUT NOT BLOCKING EXISTING ROUTE MARKERS OR LANE ASSIGNMENT SIGNS. DETOUR SIGNS SHALL NOT OBSCURE OR BE OBSCURED BY OTHER EXISTING OR TEMPORARY SIGNS.

DETOUR SIGNS SHALL BE ERECTED AND/OR UNCOVERED PRIOR TO THE ROAD OR RAMP BEING CLOSED TO TRAFFIC BUT NO EARLIER THAN FOUR HOURS PRIOR TO THE CLOSURE. DETOUR SIGNS SHALL BE COVERED AND/OR REMOVED NO LATER THAN FOUR HOURS FOLLOWING THE ROAD OR RAMP RE-OPENING TO TRAFFIC.

PAYMENT FOR ACCEPTED QUANTITIES WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, PROPER SIGN PLACEMENT AND SIZING, TIMELY ERECTING AND/OR UNCOVERING OF SIGNS, MAINTAINING SIGNS, AND TIMELY COVERING AND/OR REMOVING SIGNS AND SUPPORTS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - DETOUR SIGNING LUMP SUM

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ITEM 614, NOTICE OF CLOSURE SIGN

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE			
Item	Duration of Closure	Sign Display to Public	Notification due to District 6 Communications Office
Ramp & Road Closures	>= 2 weeks	14 calendar days prior to closure	21 calendar days prior to closure
	> 12 hours & < 2 weeks	7 calendar days prior to closure	14 calendar days prior to closure
	< 12 hours	2 business days prior to closure	4 business days prior to closure

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN SHALL DISPLAY THE PHONE NUMBER OF THE DISTRICT 6 PUBLIC INFORMATION CONSTRUCTION LINE, (740) 833-8268, WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION.

NOTIFICATION OF CONSTRUCTION INITIATION

AT LEAST FOURTEEN DAYS PRIOR TO STARTING INITIAL CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ADVISE THE DISTRICT OFFICE OF COMMUNICATIONS VIA EMAIL AT D06.PIO@DOT.OHIO.GOV, THE DISTRICT WORK ZONE TRAFFIC MANAGER VIA EMAIL AT D06.MOT@DOT.OHIO.GOV AND THE CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION VIA EMAIL AT HAULING.PERMITS@DOT.OHIO.GOV OF THE ANTICIPATED START DATE OF ANY CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO THE PLACING OF WORK ZONE SIGNS. THE NOTIFICATION SHALL ALSO INCLUDE THE PROJECT NUMBER, PID, NAME AND PHONE NUMBER OF THE CONTRACTOR, A POINT OF CONTACT AND THE ANTICIPATED IMPACT ON TRAFFIC. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DISTRICT OFFICE OF COMMUNICATIONS AND THE DISTRICT WORK ZONE TRAFFIC MANAGER OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION INITIATION DATE.

SHORT DURATION RAMP CLOSURES

FOR THE PURPOSE OF PERFORMING THE REQUIRED WORK OR WHEN REQUIRED BY THE INTERSTATE ENTRANCE RAMP CLOSURE NOTE, RAMPS MAY BE CLOSED FOR SHORT DURATIONS AND DETOURED IN ACCORDANCE WITH THE RAMP CLOSURE TABLE IF APPROVED BY THE ENGINEER. RAMP CLOSURES ARE SUBJECT TO DISINCENTIVES.

FOR ALL SERVICE RAMP CLOSURES LASTING MORE THAN 12 HOURS BUT LESS THAN 60 HOURS AND/OR, FOR ALL SYSTEM RAMP CLOSURES LASTING MORE THAN 12 HOURS BUT LESS THAN 24 HOURS THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:

- A MINIMUM OF TWO PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) PLACED, AS DIRECTED BY THE ENGINEER, TO WARN DRIVERS OF THE CLOSURE AND TO PROVIDE THE DESIGNATED DETOUR ROUTE.
- POSITIVE GUIDANCE ALONG THE DETOUR ROUTE WITH DETOUR SIGNS (M4-9 SERIES) IN ACCORDANCE WITH THE DETOUR SIGNS NOTE.

FOR ALL RAMP CLOSURES LASTING LESS THAN 12 HOURS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:

- A MINIMUM OF TWO PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) PLACED, AS DIRECTED BY THE ENGINEER, TO WARN DRIVERS OF THE CLOSURE AND TO PROVIDE THE DESIGNATED DETOUR ROUTE.

WHEN CLOSING ENTRANCE RAMPS, CORRESPONDING LEAD-IN LANES AND TURN LANES SHALL ALSO BE CLOSED.

IF A DESIGNATED DETOUR ROUTE IS NOT PROVIDED IN THE PLANS, TRAFFIC SHALL BE DIRECTED TO THE NEXT INTERCHANGE, IF AVAILABLE, TO TURN AROUND. IF THE USE OF THE NEXT INTERCHANGE IS NOT POSSIBLE, AN ALTERNATIVE DETOUR ROUTE SHALL BE PROVIDED BY THE ENGINEER.

SERVICE RAMP: INTERCHANGE RAMPS BETWEEN FREEWAYS (OR EXPRESSWAYS) AND NON-FREEWAYS (OR NONEXPRESSWAYS). THESE RAMPS PROVIDE ACCESS (CONNECTIONS) BETWEEN FREEWAYS/EXPRESSWAYS AND OTHER PRINCIPAL/MINOR ARTERIALS, COLLECTORS OR LOCAL ROADS.

SYSTEM RAMP: INTERCHANGE RAMPS (OR CONNECTORS) BETWEEN FREEWAYS (OR EXPRESSWAYS) AND FREEWAYS (OR EXPRESSWAYS).

NOTICE OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE BUT IS NOT LIMITED TO ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME FRAME TABLE			
Item	Duration of Closure	Notification due to District 6 Communications Office	Sign Displayed to Public
Ramp & Road Closures	>= 2 weeks	21 calendar days prior to closure	14 calendar days prior to closure
	> 12 hours & < 2 weeks	14 calendar days prior to closure	7 calendar days prior to closure
	< 12 hours	4 business days prior to closure	2 business days prior to closure
Lane Closures & Restrictions	>= 2 weeks	14 calendar days prior to closure	
	< 2 weeks	5 business days prior to closure	
Start of Construction & Traffic Pattern Changes	N/A	14 calendar days prior to implementation	

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME FRAME TABLE.

LANES OPEN DURING HOLIDAYS AND SPECIAL EVENTS

NO WORK SHALL BE PERFORMED AND THE SAME NUMBER OF LANES AS WERE AVAILABLE AT THE START OF THE PROJECT SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

HOLIDAYS		
CHRISTMAS	MEMORIAL DAY	LABOR DAY
NEW YEAR'S EVE	FOURTH OF JULY	THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THE PERIOD:

DAY OF HOLIDAY	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00 NOON FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00 NOON FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00 NOON MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00 NOON TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00 NOON WEDNESDAY THROUGH 6:00 AM FRIDAY
THANKSGIVING	5:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00 NOON THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00 NOON FRIDAY THROUGH 6:00 AM MONDAY

SPECIAL EVENTS

OSU HOME FOOTBALL GAME DAYS - LANE, RAMP OR SHOULDER CLOSURES ARE NOT PERMITTED FROM 3 HOURS PRIOR TO KICKOFF TO 3 HOURS FOLLOWING THE CONCLUSION OF THE GAME ON THE FOLLOWING ROUTES: US 23 BETWEEN I-270 (NORTH SIDE) AND SR 229 (DELAWARE COUNTY) US 23 BETWEEN I-270 (SOUTH SIDE) AND SR 361 (PICKAWAY COUNTY) SR 315 BETWEEN I-70 (FRANKLIN COUNTY) AND US 23 (DELAWARE COUNTY)

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN ACCORDANCE WITH THE LANE VALUE CONTRACT TABLE.

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

- DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.
- DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONT.)

- FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 640 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED. ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

DELINEATION OF PORTABLE AND PERMANENT BARRIER
BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN, SHALL BE INSTALLED ON ALL PB AND PERMANENT CONCRETE BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: ALONG TAPERS AND TRANSITION AREAS; OR ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.

THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.

DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED." PANELS SHALL BE INSTALLED AND SPACED PER TRAFFIC SCD MT-101.70.

TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLE-STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70.

THE FOLLOWING ITEMS HAVE BEEN QUANTIFIED ON SHEET 18: ITEM 614, BARRIER REFLECTOR, TYPE 1, ONE WAY (EACH) ITEM 614, OBJECT MARKER, ONE WAY (EACH) ITEM 614, INCREASED BARRIER DELINEATION (FEET)

DELINEATION OF PORTABLE AND PERMANENT BARRIER (CONT.)
PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE THIS ITEM IS PROVIDED, THE QUANTITY SHALL BE MEASURED AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION, INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.

COORDINATION WITH ADJACENT PROJECTS

THE CONTRACTOR SHALL COORDINATE WORK WITH ODOT AND THE CONTRACTORS ON THE ADJACENT PROJECTS (IF ANY).

COORDINATION SHALL BE MADE TO PREVENT CONFLICTING ADVANCE WARNING SIGNS, CONFLICTING DETOUR ROUTES, OVERLAPING/CONFLICTING LANE CLOSURES, AND TO ENSURE THAT A MINIMUM DISTANCE OF 2 MILES BETWEEN ADJACENT LANE CLOSURES IS MAINTAINED. THIS IS NOT AN EXHAUSTIVE LIST OF COORDINATION ITEMS THAT MAY NEED TO BE RESOLVED BETWEEN PROJECTS. THE DEPARTMENT RESERVES THE RIGHT TO DECIDE WHICH PROJECT'S ACTIVITIES TAKE PRECEDENCE. PROJECTS THAT HAVE ACTIVITIES DELAYED DUE TO CONFLICTS WILL CONSIDER THIS AN EXCUSABLE, NON-COMPENSABLE DELAY PER 108.06.B. ON PROJECTS THAT HAVE ACTIVITIES DELAYED DUE TO CONFLICTS WHERE THE CONTRACTOR FAILED TO MEET THE NOTIFICATION REQUIREMENTS, THE DELAYS SHALL NOT BE CONSIDERED EXCUSABLE OR COMPENSABLE.

ATTENDANCE AT DEPARTMENT ORDERED TRAFFIC COORDINATION MEETINGS BETWEEN ADJACENT PROJECTS SHALL BE CONSIDERED MANDATORY FOR EACH PROJECT'S SUPERINTENDENT AND WORKSITE TRAFFIC SUPERVISOR (WTS), AND INCIDENTAL TO THE LUMP SUM MAINTENANCE OF TRAFFIC PAYMENT ITEM.

LANE VALUE CONTRACT TABLE

THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE AS DESIGNATED IN THE LANE VALUE CONTRACT TABLE FOR EACH UNIT OF TIME A LANE/SHOULDER/RAMP IS CLOSED BY THE CONTRACTOR'S ACTION WHILE NOT OTHERWISE PERMITTED BY THE LANE VALUE CONTRACT TABLE.

LANE VALUE CONTRACT TABLE

FRA-315

SECTION	EXISTING NUMBER OF LANES PER DIRECTION	LANE CLOSURES ARE NOT PERMITTED:			DISINCENTIVE AMOUNTS PER MINUTE PER LANE	
		LANE REDUCTION	MON TO FRI	SAT		SUN
I-70 (0.00) TO RICH STREET (0.59)	2	2 TO 1	5AM - 10PM	6AM - 9PM	6AM - 9PM	\$205
RICH STREET (0.59) TO US 33 - SPRING STREET (1.34)	3	3 TO 2	5AM - 7PM	7AM - 9AM & 3PM - 6PM	7AM - 9AM & 3PM - 6PM	\$235
		3 TO 1	5AM - 10PM	6AM - 9PM	6AM - 9PM	\$235
US 33 - SPRING STREET (1.34) TO 3RD AVENUE (2.61)	2	2 TO 1	5AM - 10PM	6AM - 9PM	6AM - 9PM	\$275
3RD AVENUE (2.61) TO WILSON BRIDGE ROAD (11.67)	3	3 TO 2	5AM - 7PM	7AM - 9AM & 3PM - 6PM	7AM - 9AM & 3PM - 6PM	\$330
		3 TO 1	5AM - 10PM	6AM - 9PM	6AM - 9PM	\$330
WILSON BRIDGE ROAD (11.67) TO HARD ROAD (12.33)	2	2 TO 1	5AM - 10PM	3PM - 6PM	NO RESTRICTION	\$235
HARD ROAD (12.33) TO MASON PLACE (12.67)	2	2 TO 1	5AM - 10PM	3PM - 6PM	NO RESTRICTION	\$125
MASON PLACE (12.67) TO FRANKLIN COUNTY LINE (13.80)	1	1 SHARED LANE	5:30AM - 8PM	3PM - 6PM	NO RESTRICTION	\$210

SHORT TERM SHOULDER CLOSURES ARE PERMITTED ANY TIME EXCEPT 5AM - 9AM AND 3PM - 6PM MONDAY - FRIDAY.

MAINTENANCE OF TRAFFIC SEQUENCE OF CONSTRUCTION

NOISE WALL LOCATION: WEST SIDE OF S.R. 315

MOT CONFIGURATION - PHASE 1:

THE OUTSIDE LANE OF S.R. 315 WILL BE CLOSED TO CONSTRUCT THE NOISE WALL ALONG THE WEST SIDE OF S.R. 315 (SEE SHEETS 10-17). DUE TO DECISION SIGHT DISTANCE LIMITATIONS FOR THE HENDERSON ROAD ENTRANCE RAMP TO S.R. 315 SB, THIS RAMP MOVEMENT WILL BE CLOSED AND THE FOLLOWING DETOUR WILL BE IMPLEMENTED (SEE SHEET 9):

- OLENTANGY RIVER ROAD TO BETHEL ROAD
- BETHEL ROAD TO S.R. 315 SB.

THE PROPOSED NOISE WALL 4 AND A PORTION OF WALL 5, AND THE TYPE 4C CURB AND SHOULDER RECONSTRUCTION ALONG A PORTION OF WALL 5 WILL BE CONSTRUCTED ALONG THE WEST SIDE OF S.R. 315 DURING THE FOLLOWING NIGHT TIME CLOSURES:

- MON TO FRI 8PM TO 5AM
- SAT TO SUN 7PM TO 8AM

REMOVE EXISTING DYNAMIC MESSAGE SIGN USING SHORT TERM CLOSURE SCD MT-99.60 DURING THE FOLLOWING NIGHT TIME CLOSURE:

- MON TO MON 12AM TO 5AM

DURING CONSTRUCTION OF THE TYPE 4C CURB AND PAVEMENT RECONSTRUCTION ALONG A PORTION OF WALL 5, IF THE CONTRACTOR CHOOSES TO REMOVE THE EXISTING GUARDRAIL PANELS THE CONTRACTOR SHALL BE REQUIRED AT THE END OF THE WORK SHIFT TO RESTORE THE EXISTING BARRIER PROTECTION. FOR ADDITIONAL INFORMATION, REFER TO SHEET 5 AND THE FOLLOWING GENERAL NOTE: ITEM 606 - GUARDRAIL, MISC.: GUARDRAIL PANELS REMOVED AND REATTACHED.

MOT CONFIGURATION - PHASE 2:

S.R. 315 SOUTHBOUND LANES WILL BE REDUCED TO 11 FEET AND SHIFTED TO THE SOUTH TO CONSTRUCT WALL 6 AND A PORTION OF WALL 5, INCLUDING THE TYPE 4C CURB AND SHOULDER RECONSTRUCTION ALONG A PORTION OF WALL 5, ALONG THE WEST SIDE OF S.R. 315 (SEE SHEETS 18-25). S.R. 315 ENTRANCE RAMP AT HENDERSON ROAD WILL BE REALIGNED AND 523 FEET OF DECISION SIGHT DISTANCE WILL BE PROVIDED FROM THE RAMP.

ALL LANES ALONG OLENTANGY RIVER RD WILL BE MAINTAINED. THE MEDIAN ALONG THE EAST SIDE OF OLENTANGY RIVER RD WILL BE CLOSED FOR WORK ADJACENT TO THE PROPOSED NOISE WALL.

GUARDRAIL AND DRAINAGE STRUCTURES LOCATION:

EAST SIDE OF OLENTANGY RIVER ROAD BETWEEN HENDERSON ROAD AND GARRETT DRIVE.

MOT CONFIGURATION - PHASE 1:

ONE NB LANE OF OLENTANGY RIVER ROAD WILL BE CLOSED AT NIGHT (7PM TO 5 AM) TO PROVIDE AN ADEQUATE WORK ZONE FOR THESE CONSTRUCTION ACTIVITIES (SEE SHEETS 10-12).

RAMP CLOSURE RESTRICTIONS					
STATE ROUTE 315 IN FRANKLIN COUNTY					
SECONDARY ROUTE: N BROADWAY			SLM ALONG 315: 6.40		
RAMP	MOVEMENT	NO CLOSURES ALLOWED		DETOUR ROUTES	
		MON TO FRI	SAT TO SUN	PRIMARY ROUTE	SECONDARY ROUTE
DC	N BROADWAY TO OH-315 NB	5AM-9PM	8AM-7PM	N BROADWAY TO OH-315 S (RAMP DF) TO ACKERMAN RD. TO OH-315 N	N BROADWAY E TO N HIGH ST. N TO W HENDERSON RD.* W TO OH-315 N
SECONDARY ROUTE: OLENTANGY RIVER RD			SLM ALONG 315: 6.40		
RAMP	MOVEMENT	NO CLOSURES ALLOWED		DETOUR ROUTES	
		MON TO FRI	SAT TO SUN	PRIMARY ROUTE	SECONDARY ROUTE
DA	OH-315 SB TO OLENTANGY RIVER RD.	5AM-8PM	8AM-7PM	OH-315 S TO ACKERMAN RD. TO OH-315 TO OLENTANGY RIVER RD. (RAMP DE)	OH-315 S TO ACKERMAN RD. TO OH-315 N TO N BROADWAY (RAMP DH) TO OLENTANGY RIVER RD.
DB	OLENTANGY RIVER RD. TO OH-315 SB	5AM-8PM	8AM-7PM	OLENTANGY RIVER RD. TO N BROADWAY TO OH-315 S (RAMP DF)	OLENTANGY RIVER RD.* N TO OH-315 S
SECONDARY ROUTE: HENDERSON RD			SLM ALONG 315: 7.78		
RAMP	MOVEMENT	NO CLOSURES ALLOWED		DETOUR ROUTES	
		MON TO FRI	SAT TO SUN	PRIMARY ROUTE	SECONDARY ROUTE
EC	HENDERSON RD. TO OH-315 NB	5AM-8PM	8AM-7PM	HENDERSON RD. TO OLENTANGY RIVER RD.* S TO N BROADWAY TO OH-315 N	HENDERSON RD. TO OLENTANGY RIVER RD.* N TO BETHEL RD. E TO OH-315 N
ED	OH-315 NB TO HENDERSON RD.	5AM-11PM	8AM-8PM	OH-315 N TO BETHEL RD. TO OH-315 S TO OLENTANGY RIVER RD. (RAMP EA) TO HENDERSON RD.	NONE
SECONDARY ROUTE: OLENTANGY RIVER RD			SLM ALONG 315: 7.95		
RAMP	MOVEMENT	NO CLOSURES ALLOWED		DETOUR ROUTES	
		MON TO FRI	SAT TO SUN	PRIMARY ROUTE	SECONDARY ROUTE
EA	OH-315 SB TO OLENTANGY RIVER RD.	5AM-8PM	8AM-7PM	OH-315 S TO N BROADWAY TO OLENTANGY RIVER RD.	OH-315 S TO BETHEL RD.* TO OLENTANGY RIVER RD.
EB	OLENTANGY RIVER RD. TO OH-315 SB	5AM-8PM	8AM-7PM	OLENTANGY RIVER RD. N TO BETHEL RD. TO OH-315 S	OLENTANGY RIVER RD. S TO N BROADWAY TO OH-315 S
SECONDARY ROUTE: BETHEL RD			SLM ALONG 315: 8.57		
RAMP	MOVEMENT	NO CLOSURES ALLOWED		DETOUR ROUTES	
		MON TO FRI	SAT TO SUN	PRIMARY ROUTE	SECONDARY ROUTE
FA	OH-315 SB TO BETHEL RD.	5AM-8PM	8AM-7PM	OH-315 S TO OLENTANGY RIVER RD. S TO HENDERSON RD. TO OH-315 N TO BETHEL RD. (RAMP FD)	OH-315 S TO OLENTANGY RIVER RD.* N TO BETHEL RD.
FC	BETHEL RD. TO OH-315 NB	5AM-9PM	8AM-7PM	BETHEL RD. TO OH-315 S (RAMP FE) TO OLENTANGY RIVER RD. TO HENDERSON RD. TO OH-315 N	BETHEL RD. TO OLENTANGY RIVER RD.* N TO DUBLIN-GRANVILLE RD. TO OH-315 N
FD	OH-315 NB TO BETHEL RD.	5AM-10PM	8AM-8PM	OH-315 N TO OH-161 TO OH-315 S TO BETHEL RD. (RAMP FA)	OH-315 N TO OH-161 TO OLENTANGY RIVER RD.* S TO BETHEL RD.
FE	BETHEL RD. TO OH-315 SB	5AM-9PM	8AM-8PM	BETHEL RD. TO OH-315 N (RAMP FC) TO OH-161 TO OH-315 S	BETHEL RD. TO OLENTANGY RIVER RD.* S TO OH-315 S

CALCULATED
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CHECKED
JDH

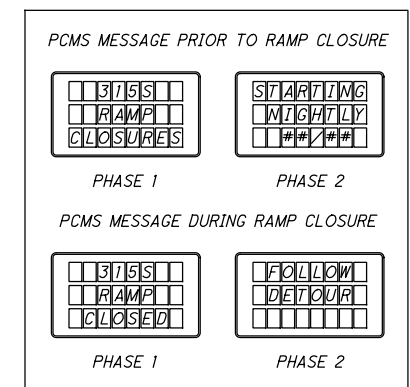
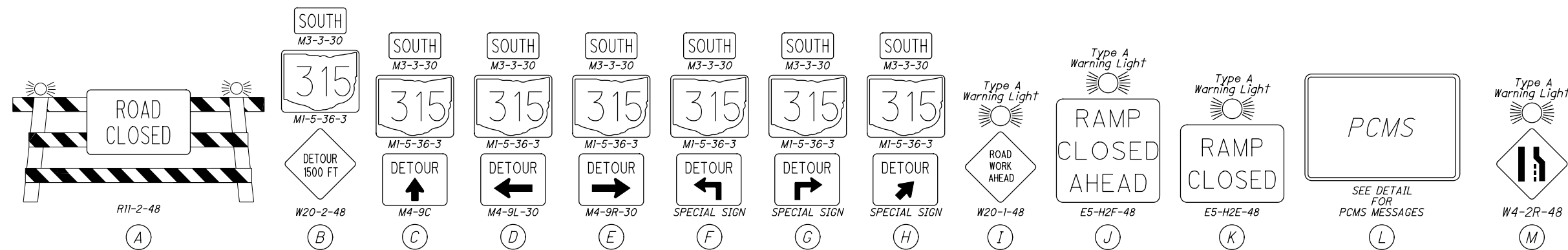
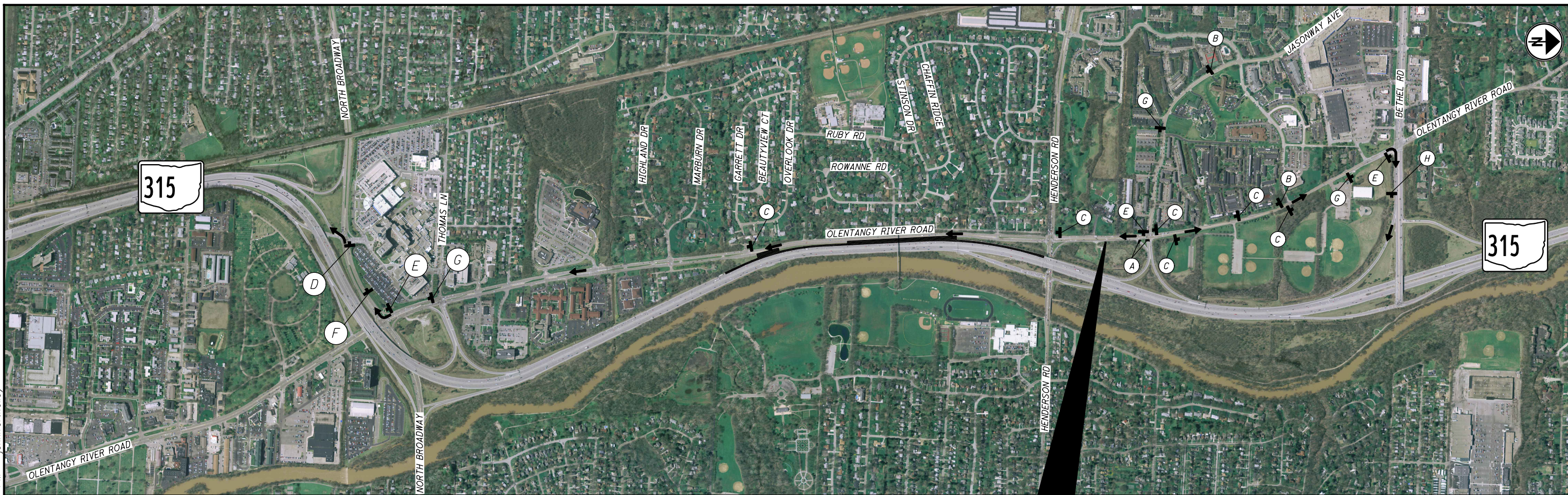
MAINTENANCE OF TRAFFIC GENERAL NOTES

FRA-315-7.13
NOISE WALLS

8
80

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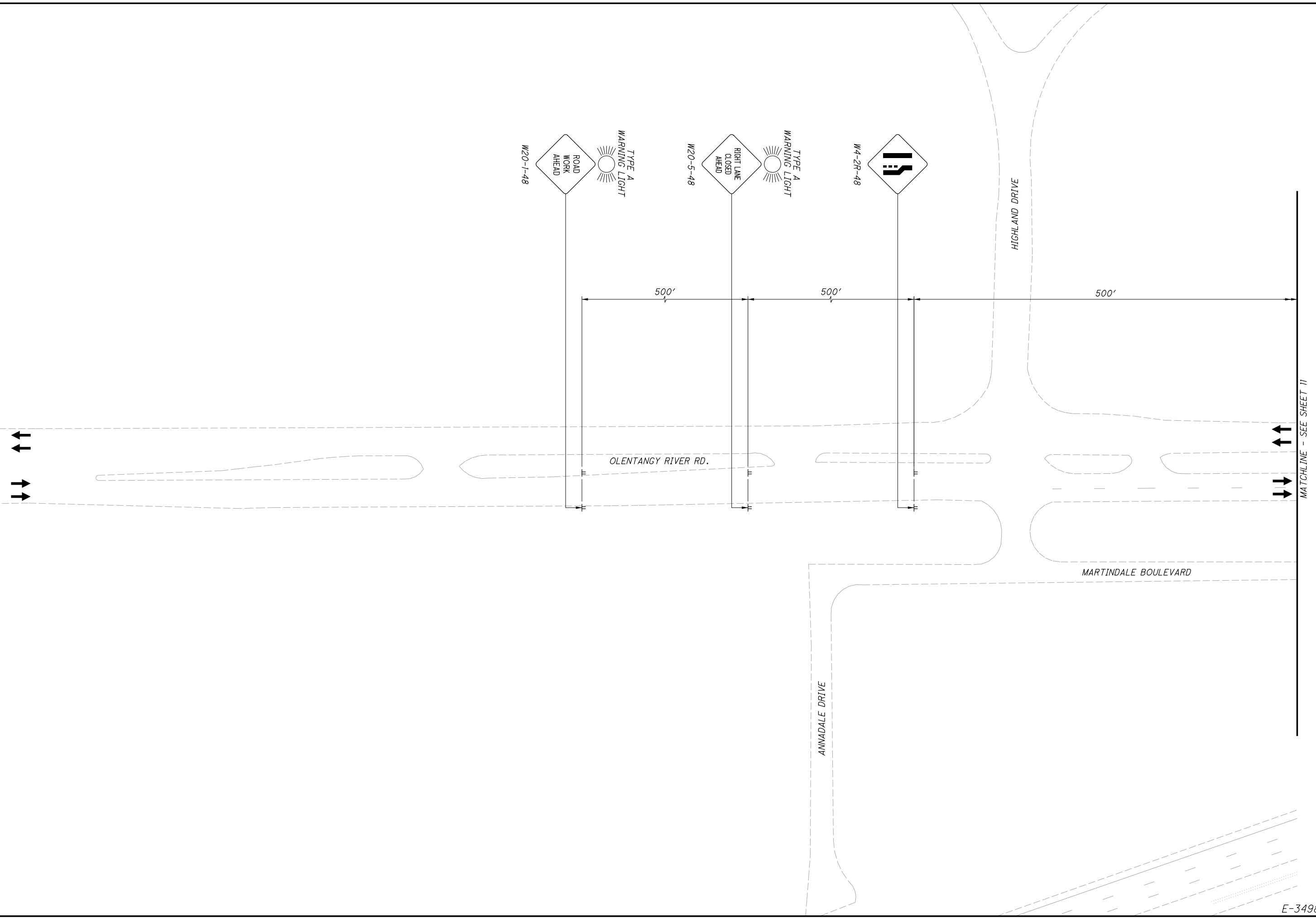
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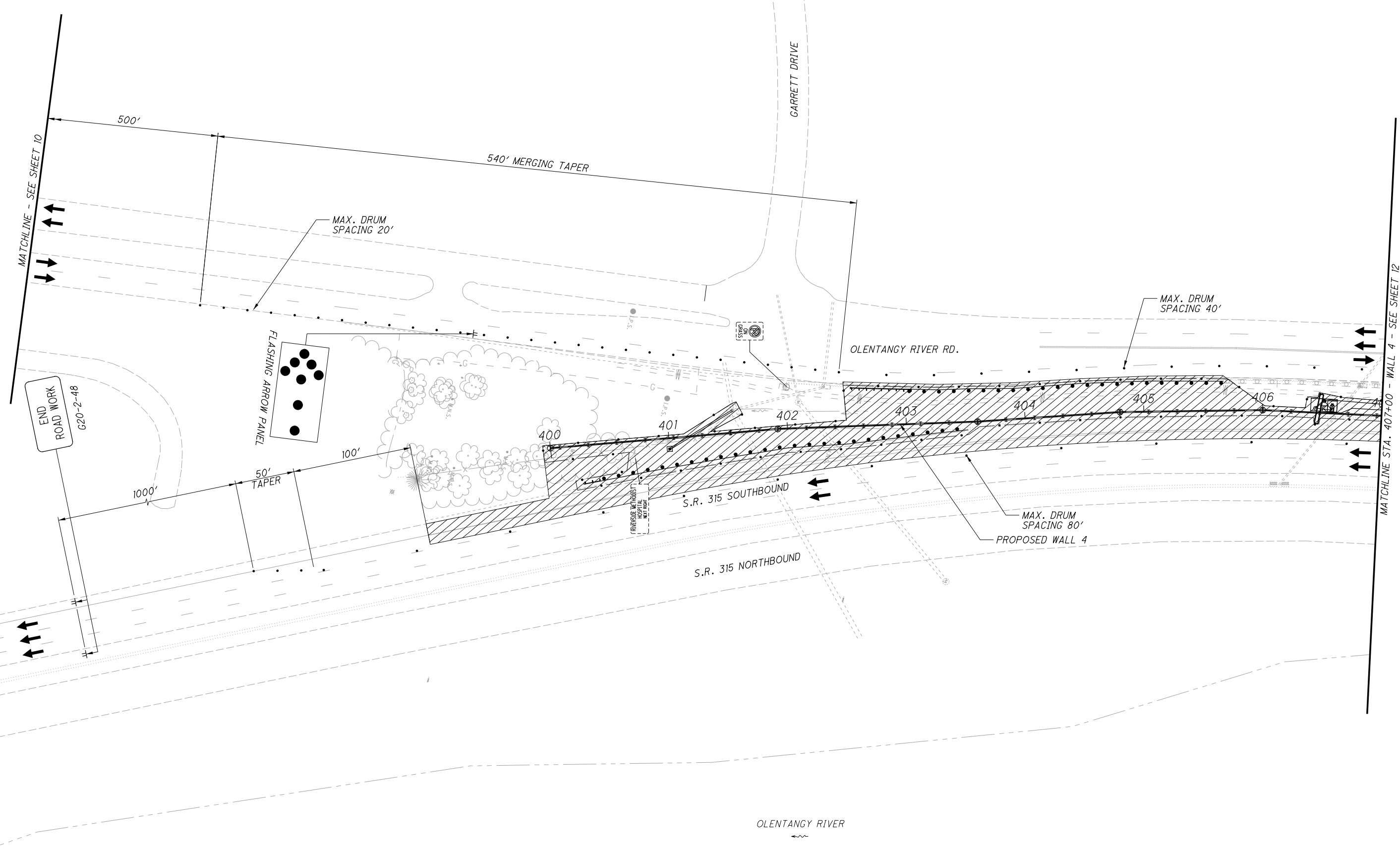
DETOUR SHEET - OLENTANGY RIVER RD / HENDERSON RD
RAMP TO SR-315 SB

FRA-315-7.13
NOISE WALLS



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LEGEND
WORK ZONE





 HORIZONTAL SCALE IN FEET
 CALCULATED: STC
 CHECKED: JDH

MAINTENANCE OF TRAFFIC PLAN - WALLS 4&5
PHASE 1

FRA-315-7.13
NOISE WALLS

LEGEND

WORK ZONE

CALCULATED
STC

CHECKED
JDH

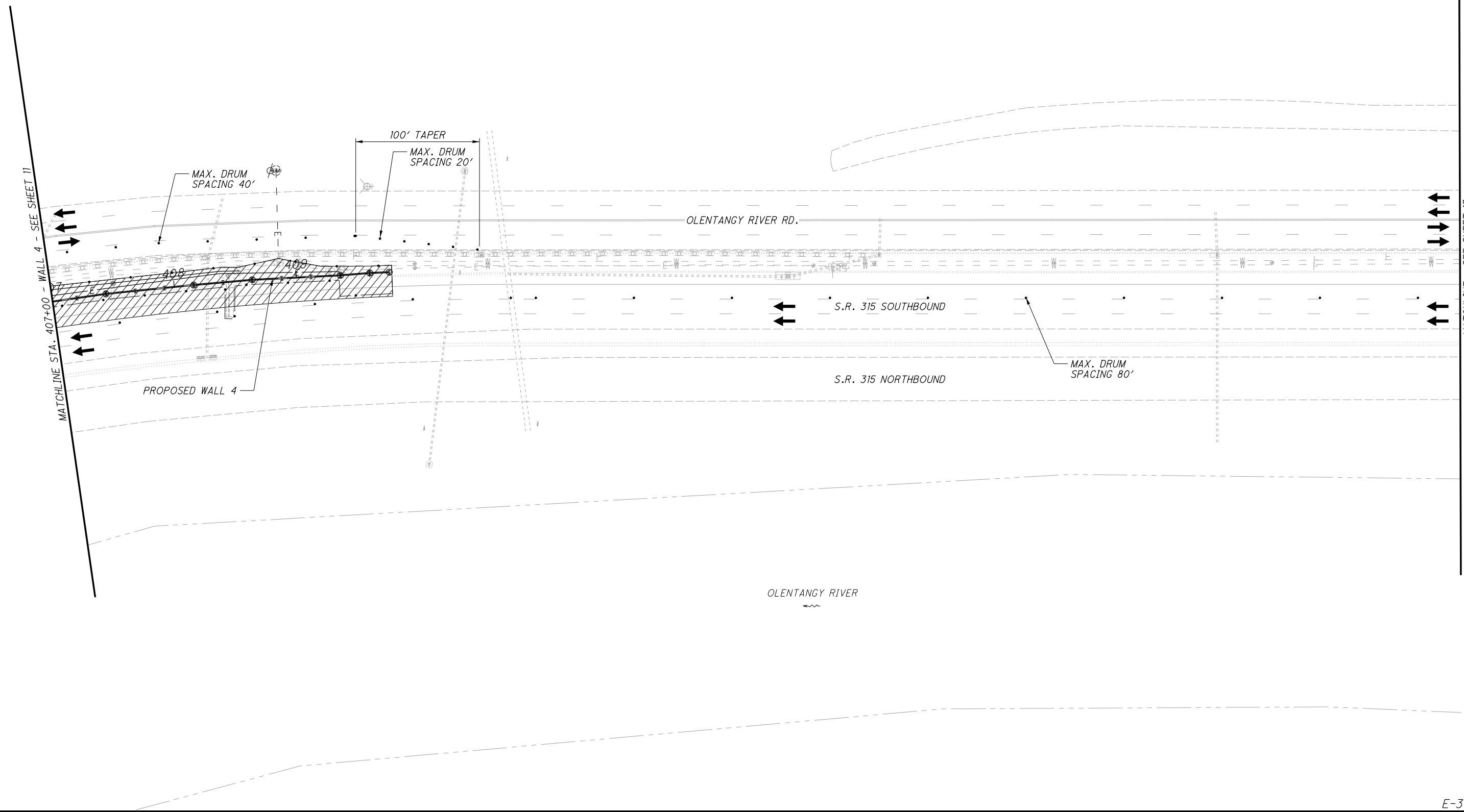
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HORIZONTAL
SCALE IN FEET

MAINTENANCE OF TRAFFIC PLAN - WALLS 4&5
PHASE 1

FRA-315-7.13
NOISE WALLS

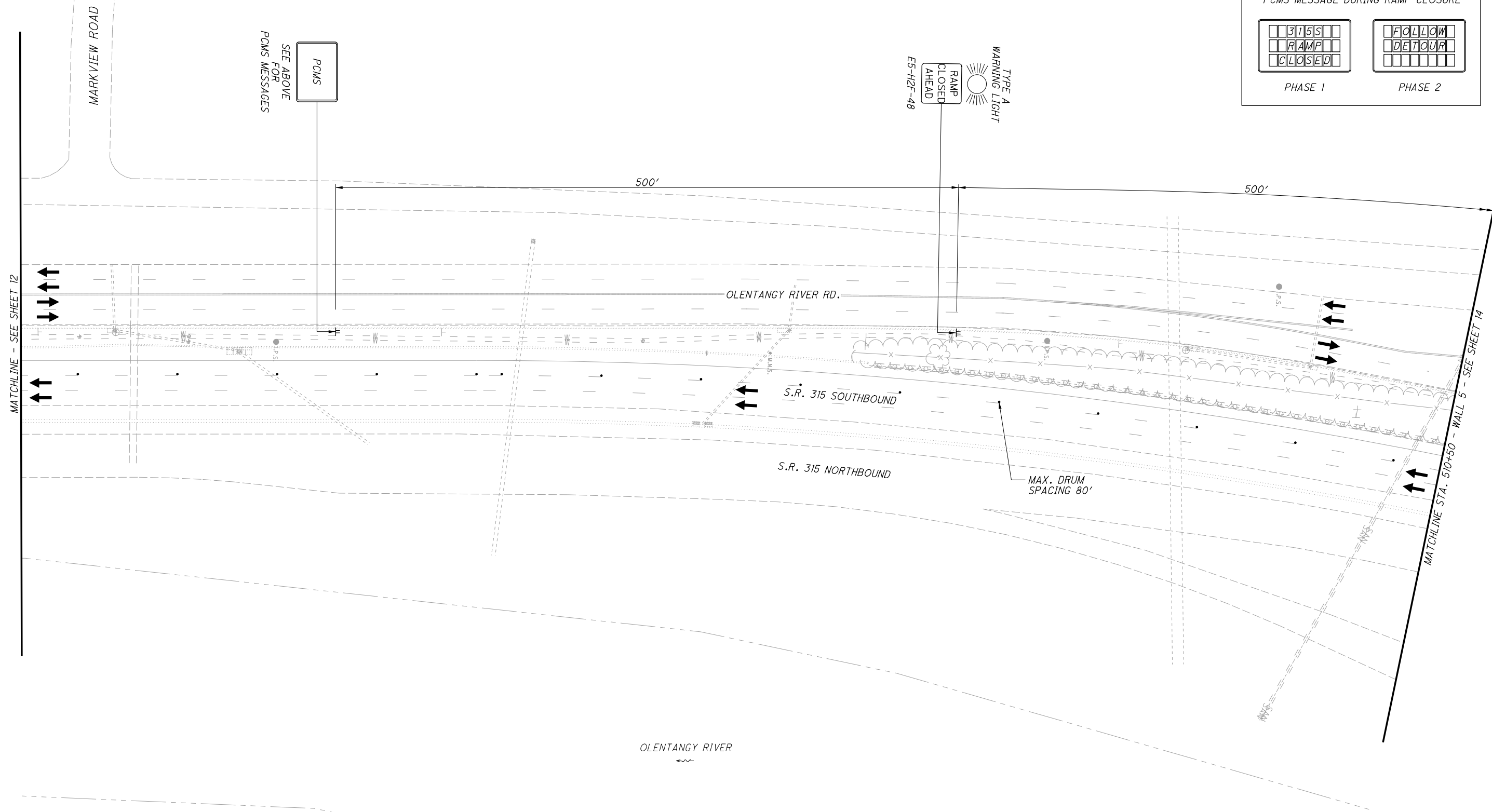
12
80

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LEGEND
[Hatched Box] WORK ZONE



PCMS MESSAGE PRIOR TO RAMP CLOSURE

315 S	STARTING
RAMP	NIGHTLY
CLOSURES	##/##/##

PHASE 1 PHASE 2

PCMS MESSAGE DURING RAMP CLOSURE

315 S	FOLLOW
RAMP	DETOUR
CLOSED	

PHASE 1 PHASE 2

CALCULATED
STC
CHECKED
JDH

0 20 40 80
HORIZONTAL
SCALE IN FEET

N

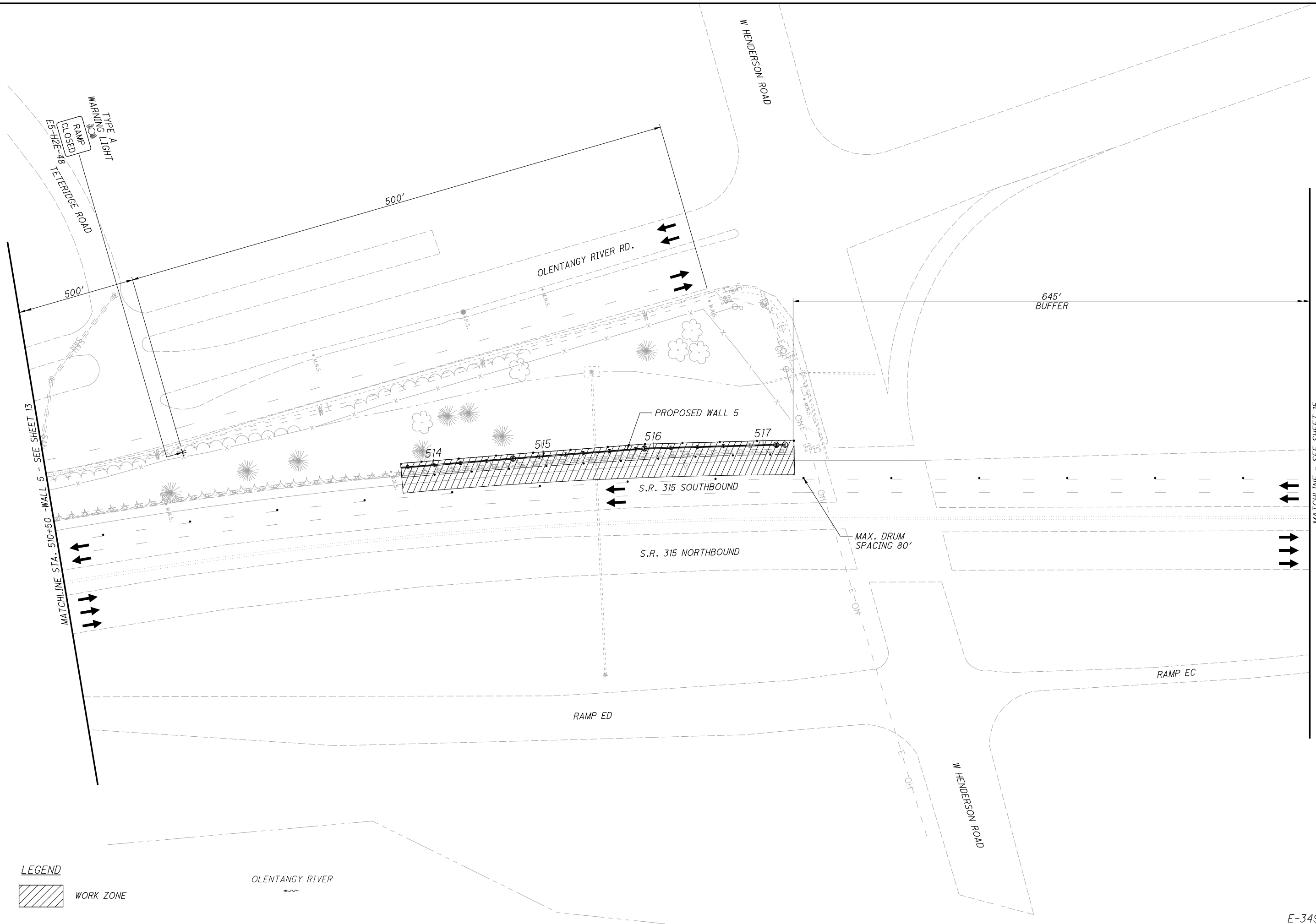
**MAINTENANCE OF TRAFFIC PLAN - WALLS 4&5
PHASE 1**

**FRA-315-7.13
NOISE WALLS**

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LEGEND
 WORK ZONE

OLENTANGY RIVER

CALCULATED
 STC
 CHECKED
 JDH

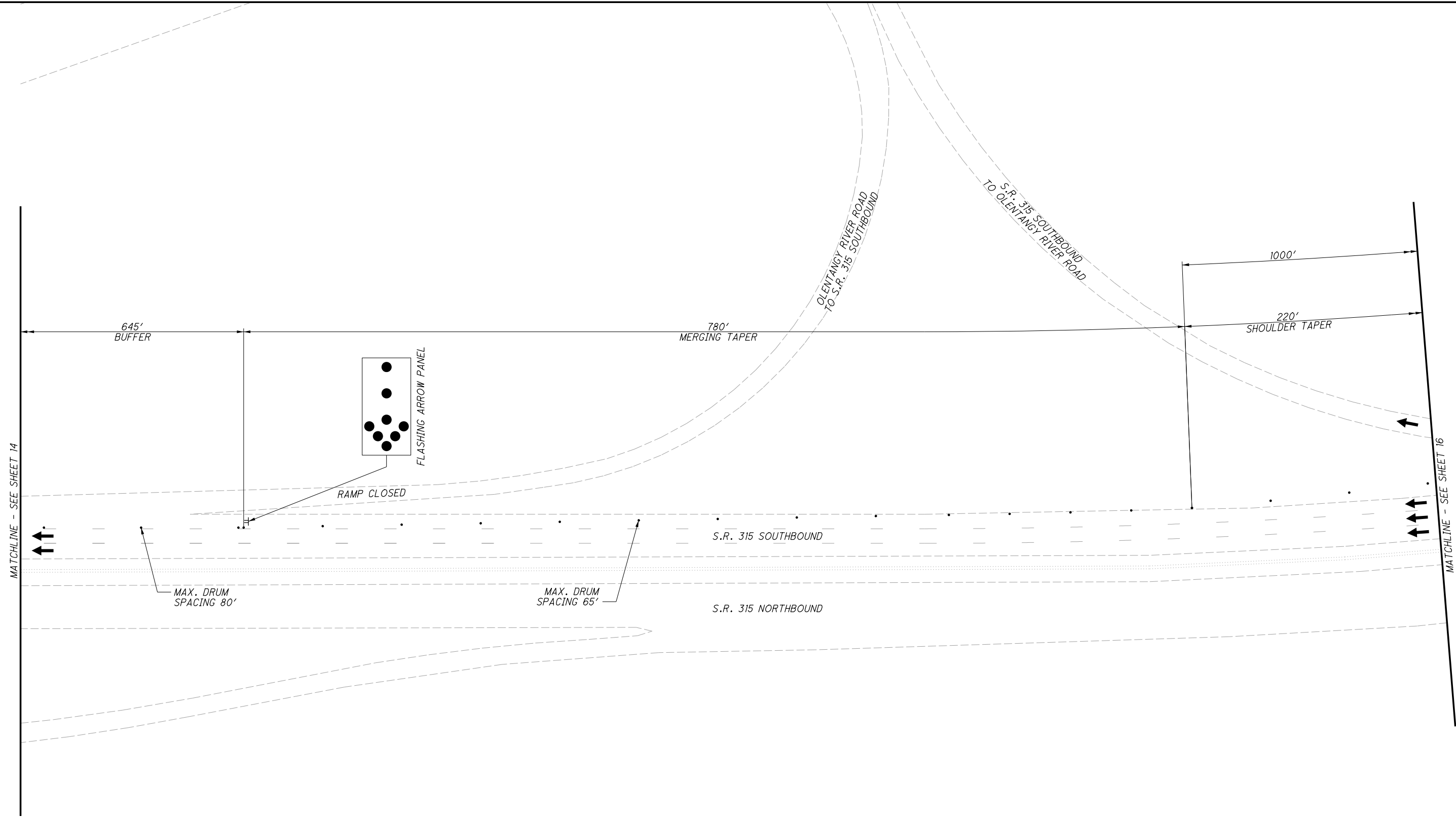
0 40 80
 HORIZONTAL
 SCALE IN FEET



**MAINTENANCE OF TRAFFIC PLAN - WALLS 4&5
 PHASE 1**

**FRA-315-7.13
 NOISE WALLS**

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CALCULATED
STC
CHECKED
JDH

0 20 40 80
HORIZONTAL
SCALE IN FEET

**MAINTENANCE OF TRAFFIC PLAN - WALLS 4&5
PHASE 1**

**FRA-315-7.13
NOISE WALLS**

15
80

E-3498

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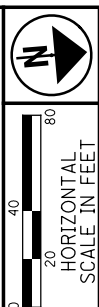


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MAINTENANCE OF TRAFFIC PLAN - WALLS 4&5
PHASE 1

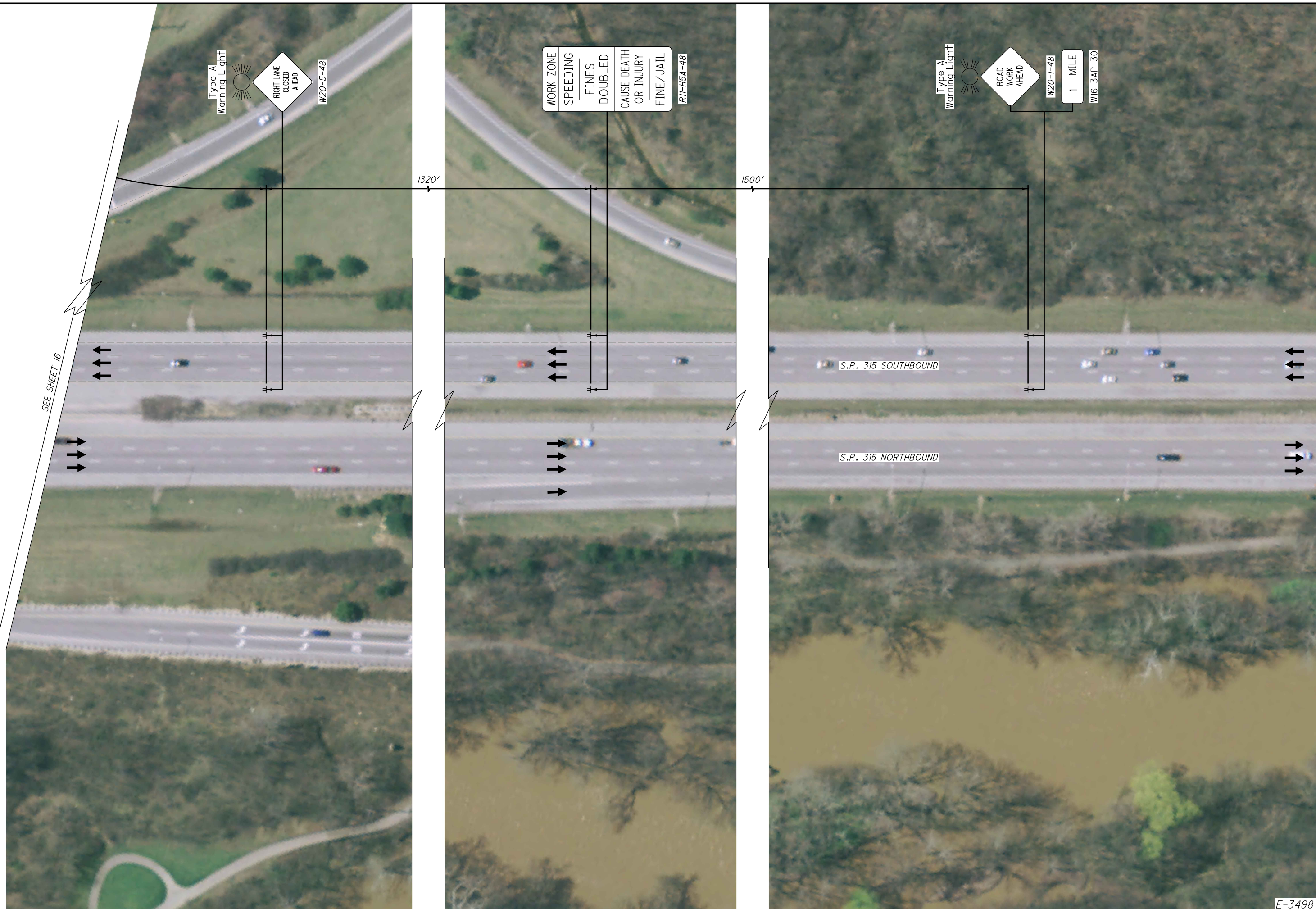
FRA-315-7.13
NOISE WALLS

16
80



SEE SHEET 17

E-3498



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RESTORATION OF EXISTING PAVEMENT MARKINGS

CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED AFTER THE COMPLETION OF PHASE 1. PAYMENT FOR REMOVAL OF CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE PAID PER ITEM 614 MAINTAINING TRAFFIC. PAVEMENT MARKINGS SHALL BE RESTORED TO EXISTING CONDITIONS AFTER THE COMPLETION OF PHASE 2. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 644 - EDGE LINE, 6" (WHITE) 0.90 MILE
 ITEM 644 - EDGE LINE, 6" (YELLOW) 0.94 MILE
 ITEM 644 - LANE LINE, 6" 2.06 MILE
 ITEM 644 - CHANNELIZING LINE, 12" 589 FT
 ITEM 644 - DOTTED LINE, 12" 840 FT

ITEM 646 - EDGE LINE, 6" (WHITE) 0.03 MILE
 ITEM 646 - EDGE LINE, 6" (YELLOW) 0.03 MILE
 ITEM 646 - LANE LINE, 6" 0.06 MILE
 ITEM 646 - DOTTED LINE, 12" 150 FT

**ITEM 621, RPM REFLECTOR, AS PER PLAN
 ITEM 621, RAISED PAVEMENT MARKER REMOVED, AS PER PLAN**

EXISTING RAISED PAVEMENT MARKER REFLECTORS ASSOCIATED WITH CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED AFTER THE COMPLETION OF PHASE 1. EMBEDDED METAL HOUSINGS SHALL REMAIN IN PLACE DURING PHASE 2. NEW RAISED PAVEMENT MARKER REFLECTORS SHALL BE REPLACED IN THE EXISTING EMBEDDED METAL HOUSINGS FOLLOWING THE APPLICATION OF PERMANENT PAVEMENT MARKINGS AFTER THE COMPLETION OF PHASE 2. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 621 - RPM REFLECTOR, AS PER PLAN 115 EACH
 ITEM 621 - RAISED PAVEMENT MARKER REMOVED, AS PER PLAN 115 EACH

ITEM 614, WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN

WORK ZONE RAISED PAVEMENT MARKERS, AS PER PLAN, AND THEIR INSTALLATION SHALL CONFORM TO C&M 614 OR C&M 621 AS SPECIFIED HEREIN.

RAISED PAVEMENT MARKERS IN USE DURING THE SNOW-PLOWING SEASON SHALL CONFORM TO 621.

RAISED PAVEMENT MARKERS IN USE DURING THE NON-SNOW-PLOW SEASON SHALL CONFORM TO 614.

RAISED PAVEMENT MARKERS IN WORK ZONES, INSTALLED ON PERMANENT CONCRETE SURFACES, SHALL BE ITEM 614 WORK ZONE RAISED PAVEMENT MARKERS. WZRPMS ARE INTENDED FOR USE ONLY DURING THE NON-SNOW PLOWING SEASON. WZRPMS SHALL NOT BE PROVIDED DURING THE SNOW-PLOWING SEASON. WHERE A TEMPORARY ALIGNMENT WILL REMAIN IN USE THROUGH THE WINTER ON PERMANENT CONCRETE SURFACES, THE WZRPMS SHALL BE REMOVED PRIOR TO THE BEGINNING OF THE SNOW-PLOWING SEASON AND REPLACED APPROXIMATELY APRIL 1, OR AS OTHERWISE DETERMINED BY THE ENGINEER.

THE SNOW-PLOWING SEASON SHALL RUN FROM OCTOBER 15 THROUGH APRIL 1.

IF PROJECT DELAYS, NOT THE FAULT OF ODOT, CAUSE THE WORK TO EXTEND INTO THE SNOW-PLOWING SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WORK ZONE RAISED PAVEMENT MARKERS (WZRPMS) CONFORMING TO C&M 614, WITH RAISED PAVEMENT MARKERS CONFORMING TO 621, AS DETERMINED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

THIS ITEM SHALL INCLUDE PURCHASE, INSTALLATION AND REMOVAL OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, INCLUDING FILLING OF ANY DEPRESSIONS CREATED IN THE PAVEMENT AS PER C&M 621.08.

THE FOLLOWING BID ITEMS SHOULD BE INCLUDED IN THE PLANS:

ITEM 614 - WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN 276 EACH

ITEM 621 - RPM 276 EACH



REF. NO.	SHEET NO.	SIDE	614	614	614	614	614	614	614	614	614	614	621	622			
			INCREASED BARRIER DELINEATION	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	BARRIER REFLECTOR, TYPE 1, ONE WAY	OBJECT MARKER, ONE WAY	WORK ZONE LANE LINE, CLASS 1, 4", 740.06, TYPE 1	WORK ZONE EDGE LINE (WHITE), CLASS 1, 4", 740.06, TYPE 1	WORK ZONE EDGE LINE (YELLOW), CLASS 1, 4", 740.06, TYPE 1	WORK ZONE CHANNELIZING LINE, CLASS 1, 8", 740.06, TYPE 1	WORK ZONE DOTTED LINE, CLASS 1, 740.06, TYPE 1	RPM	PORTABLE BARRIER, UNANCHORED			
			FT	EACH	EACH	EACH	EACH	EACH	MILE	MILE	MILE	FT	FT	EACH	FT		
PB-1	20-21	RT	2580	1		52	52								2580		
WEW-1	19-23	RT								3977							
WEW-2	23-24	RT								1346							
WEY-1	19-24	RT									4982						
WEY-2	23	RT									331						
WLL-1	20-23	RT			29									29			
WLL-2	20-23	RT			29									29			
WCH-1	19-20	RT			46							911		46			
WCH-2	19-20	RT			46							908		46			
WCH-3	23-24	RT			63							1251		63			
WCH-4	23-24	RT			63							1253		63			
WDW-1	22-23	RT											830				
			SUBTOTAL:		SUBTOTAL:		SUBTOTAL:										
			6856	5323	5313												
			FT	FT	FT												
TOTALS CARRIED TO GENERAL SUMMARY			2580	1	276	52	52	1.30	2.01	4323	830	276	2580				



HIGHLAND DRIVE

OLENTANGY RIVER RD.

MARTINDALE BOULEVARD

ANNADALE DRIVE

MATCHLINE - SEE SHEET 19



 CALCULATED BY: STC
 CHECKED BY: JDH

MAINTENANCE OF TRAFFIC PLAN - WALL 6

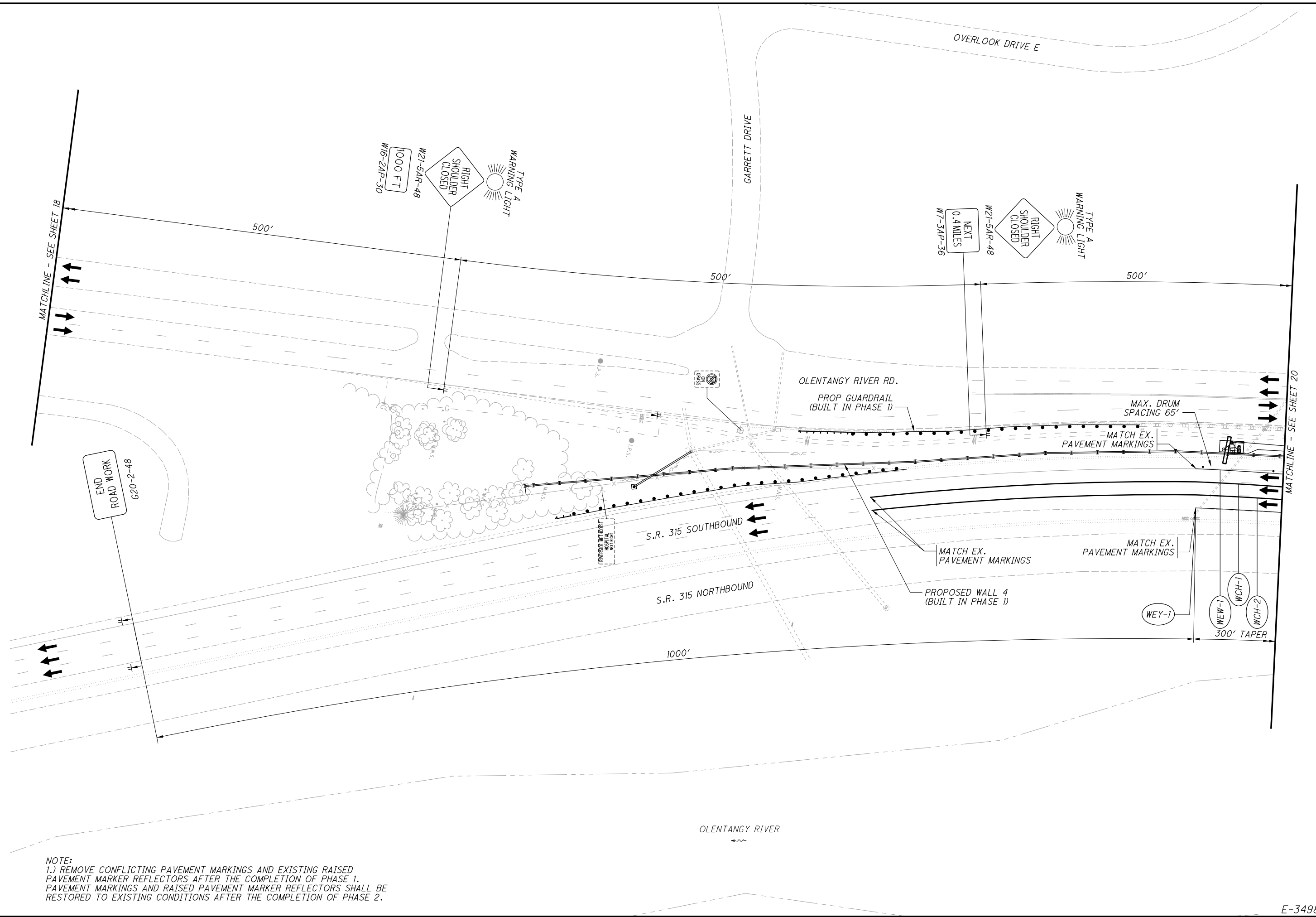
PHASE 2

FRA-315-7.13
NOISE WALLS

18
80

E-3498

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NOTE:
 1.) REMOVE CONFLICTING PAVEMENT MARKINGS AND EXISTING RAISED PAVEMENT MARKER REFLECTORS AFTER THE COMPLETION OF PHASE 1. PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS SHALL BE RESTORED TO EXISTING CONDITIONS AFTER THE COMPLETION OF PHASE 2.

CALCULATED: STC
 CHECKED: JDH
 HORIZONTAL SCALE IN FEET
 0 20 40 80

MAINTENANCE OF TRAFFIC PLAN - WALL 6
PHASE 2

FRA-315-7.13
NOISE WALLS

LEGEND



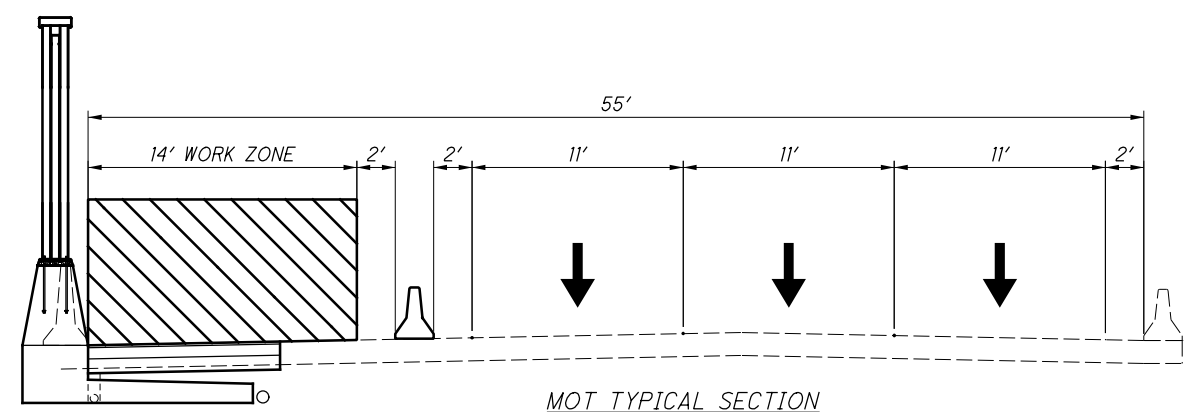
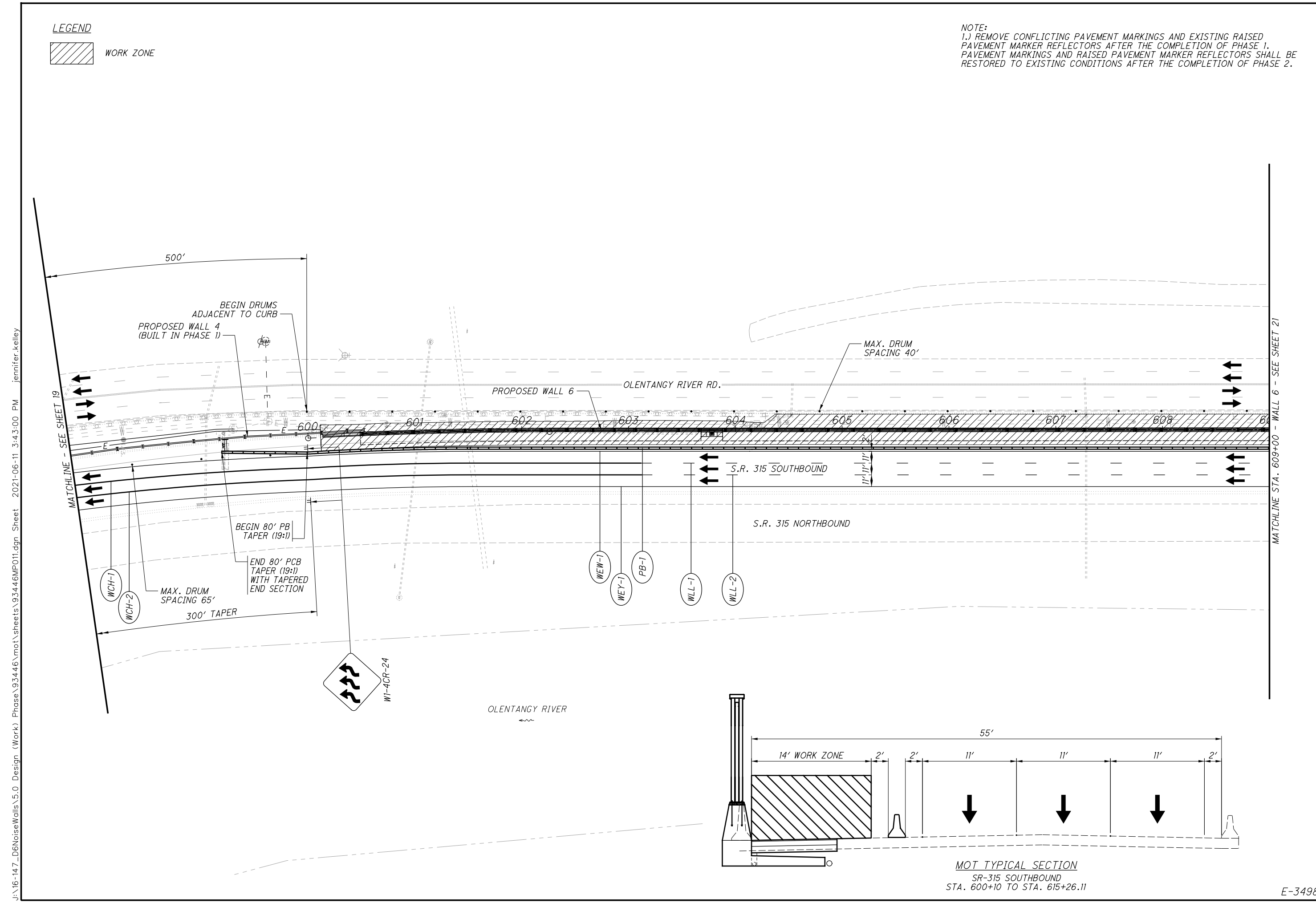
NOTE:
 1.) REMOVE CONFLICTING PAVEMENT MARKINGS AND EXISTING RAISED PAVEMENT MARKER REFLECTORS AFTER THE COMPLETION OF PHASE 1. PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS SHALL BE RESTORED TO EXISTING CONDITIONS AFTER THE COMPLETION OF PHASE 2.

HORIZONTAL SCALE IN FEET
 CALCULATED: STC
 CHECKED: JDH

MAINTENANCE OF TRAFFIC PLAN - WALL 6
PHASE 2

FRA-315-7.13
NOISE WALLS

20
80



MOT TYPICAL SECTION
 SR-315 SOUTHBOUND
 STA. 600+10 TO STA. 615+26.11

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 MATCHLINE STA. 609+00 - WALL 6 - SEE SHEET 20

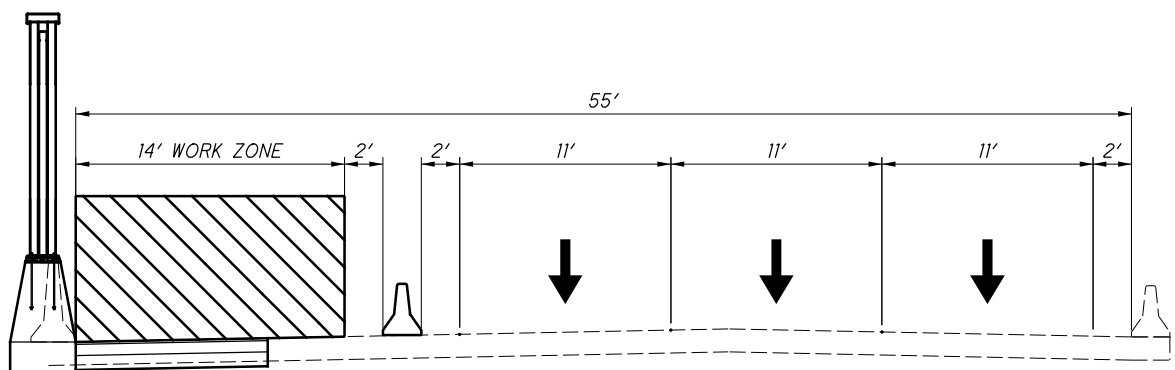
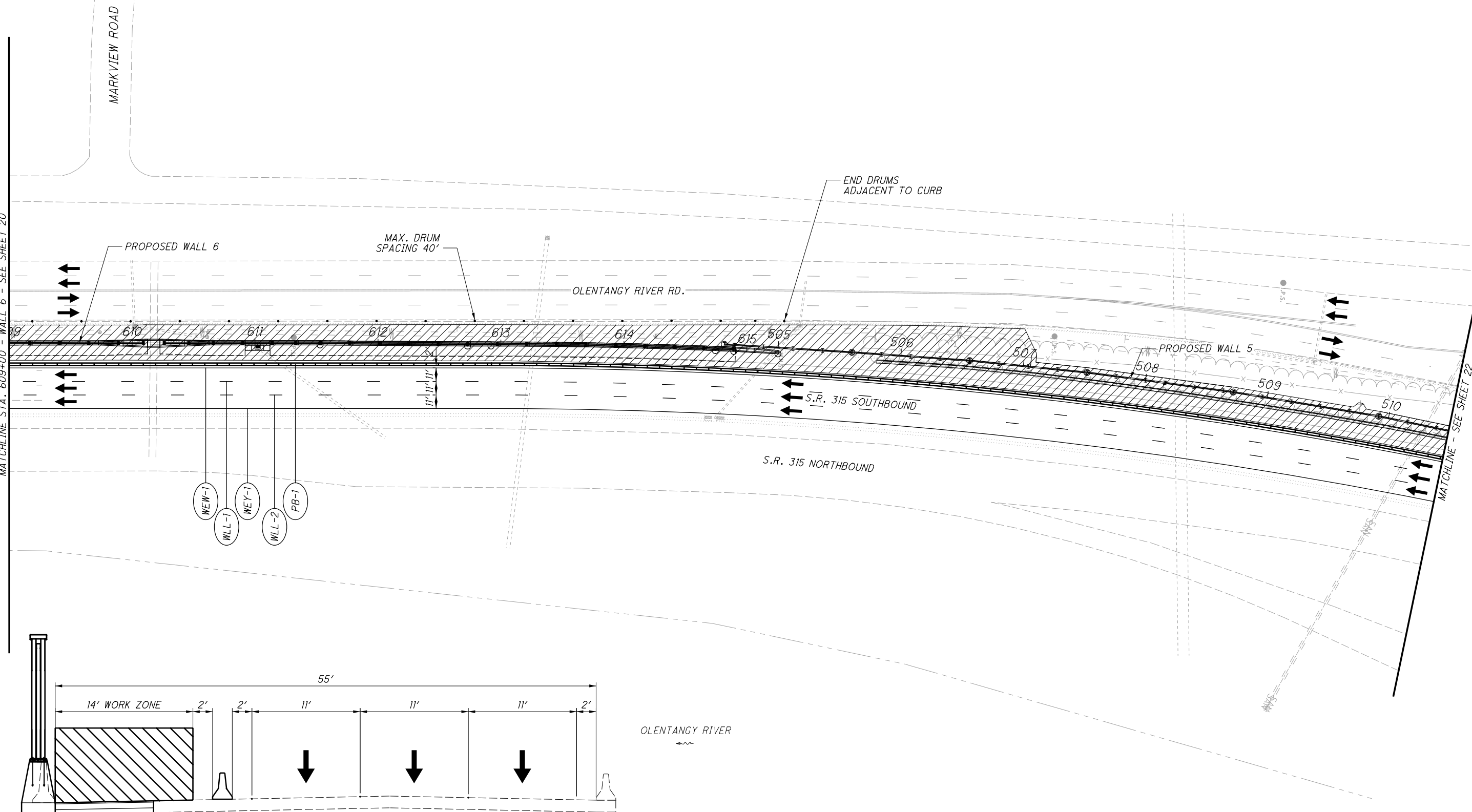
NOTE:
 1.) REMOVE CONFLICTING PAVEMENT MARKINGS AND EXISTING RAISED PAVEMENT MARKER REFLECTORS AFTER THE COMPLETION OF PHASE 1.
 PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS SHALL BE RESTORED TO EXISTING CONDITIONS AFTER THE COMPLETION OF PHASE 2.

CALCULATED
 STC
 CHECKED
 JDH

0 20 40 80
 HORIZONTAL
 SCALE IN FEET

MAINTENANCE OF TRAFFIC PLAN - WALL 6
 PHASE 2

FRA-315-7.13
 NOISE WALLS



MOT TYPICAL SECTION
 SR-315 SOUTHBOUND
 STA. 600+10 TO STA. 615+26.11

LEGEND

WORK ZONE

NOTE:
 1.) REMOVE CONFLICTING PAVEMENT MARKINGS AND EXISTING RAISED PAVEMENT MARKER REFLECTORS AFTER THE COMPLETION OF PHASE 1. PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS SHALL BE RESTORED TO EXISTING CONDITIONS AFTER THE COMPLETION OF PHASE 2.

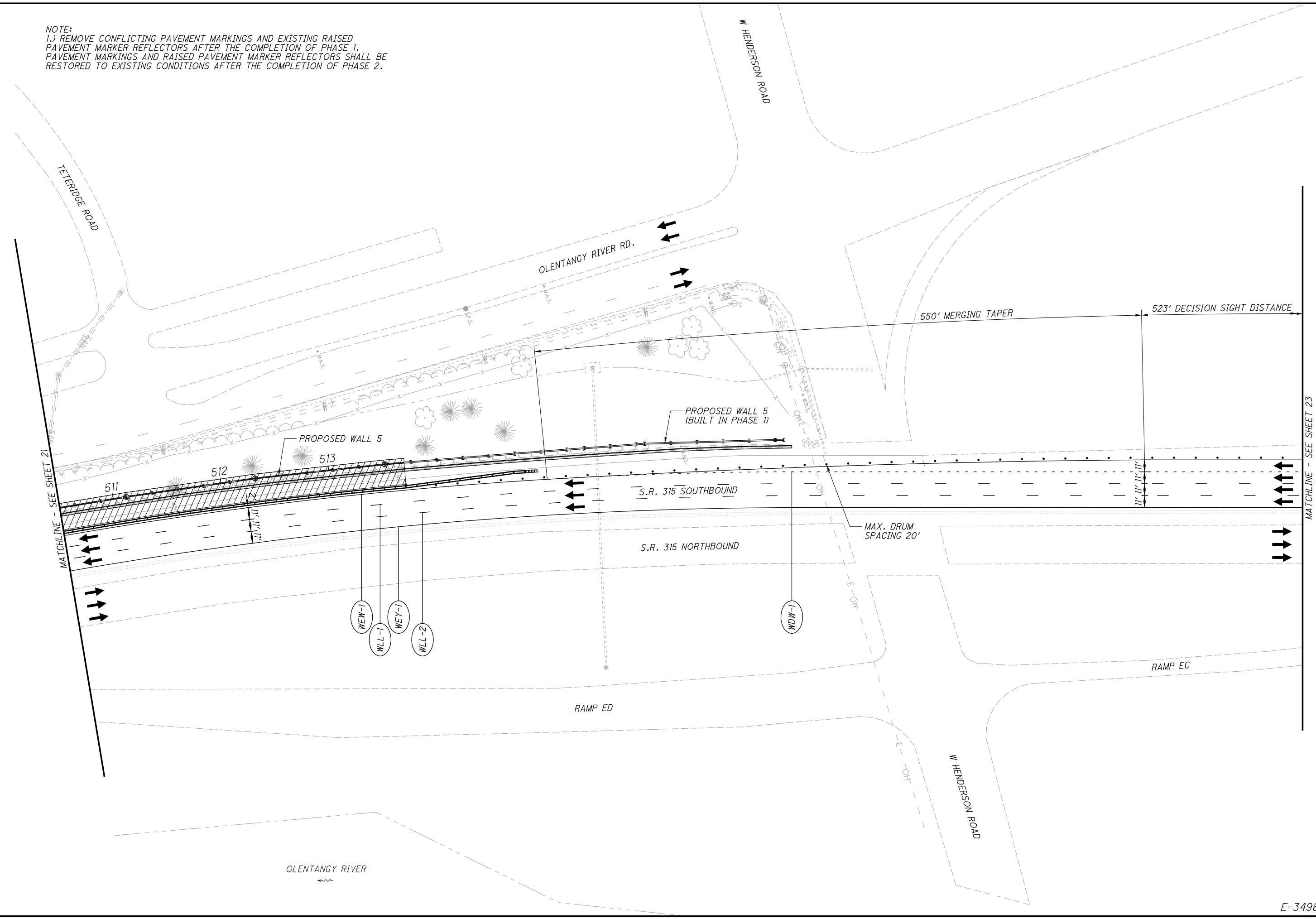


CALCULATED
 STC
 CHECKED
 JDH

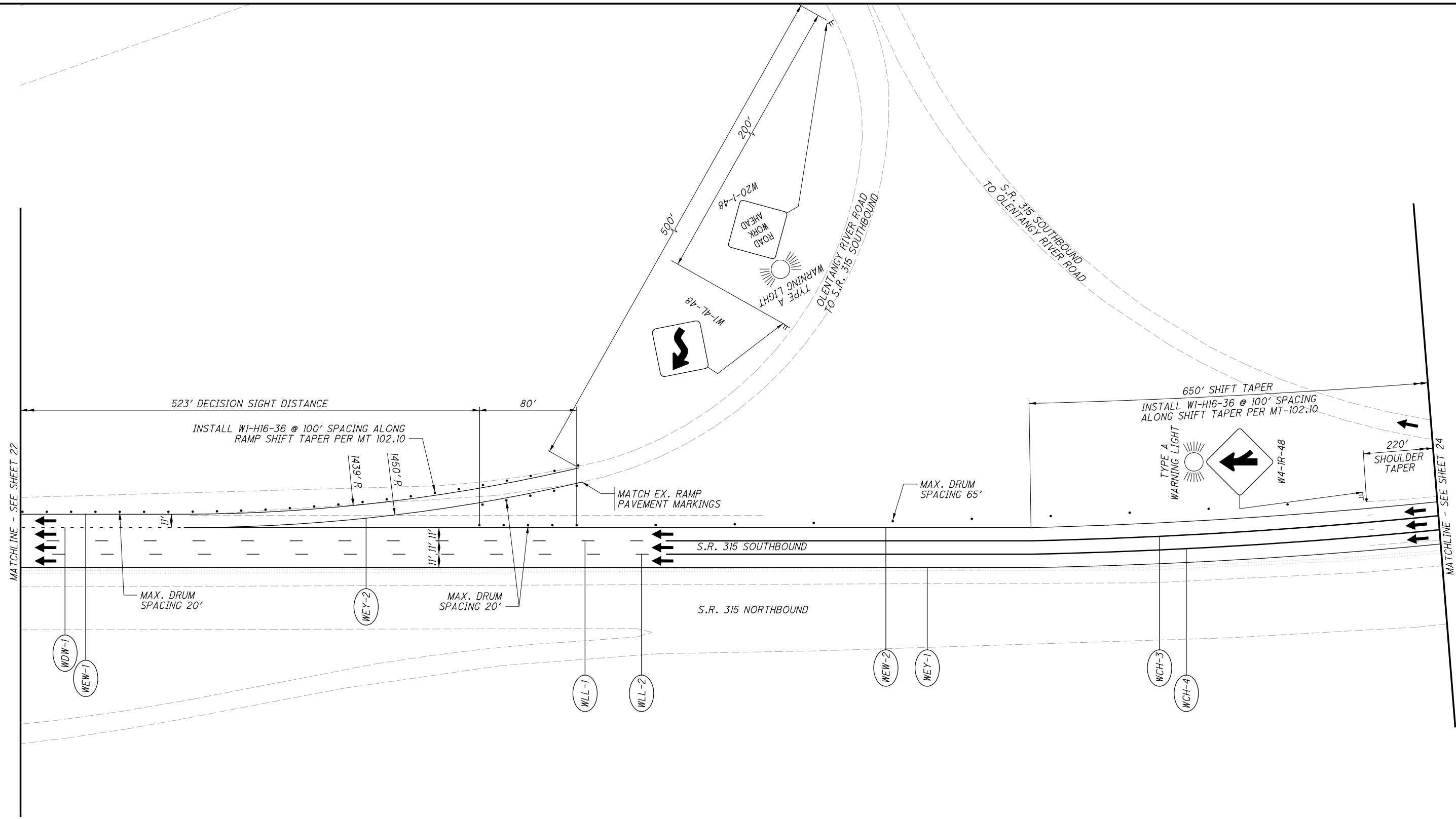
**MAINTENANCE OF TRAFFIC PLAN - WALL 6
 PHASE 2**

**FRA-315-7.13
 NOISE WALLS**

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NOTE:
 1.) REMOVE CONFLICTING PAVEMENT MARKINGS AND EXISTING RAISED PAVEMENT MARKER REFLECTORS AFTER THE COMPLETION OF PHASE 1.
 PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS SHALL BE RESTORED TO EXISTING CONDITIONS AFTER THE COMPLETION OF PHASE 2.

CALCULATED
 STC
 CHECKED
 JDH

0 20 40 80
 HORIZONTAL
 SCALE IN FEET

MAINTENANCE OF TRAFFIC PLAN - WALL 6

PHASE 2



FRA-315-7.13

NOISE WALLS

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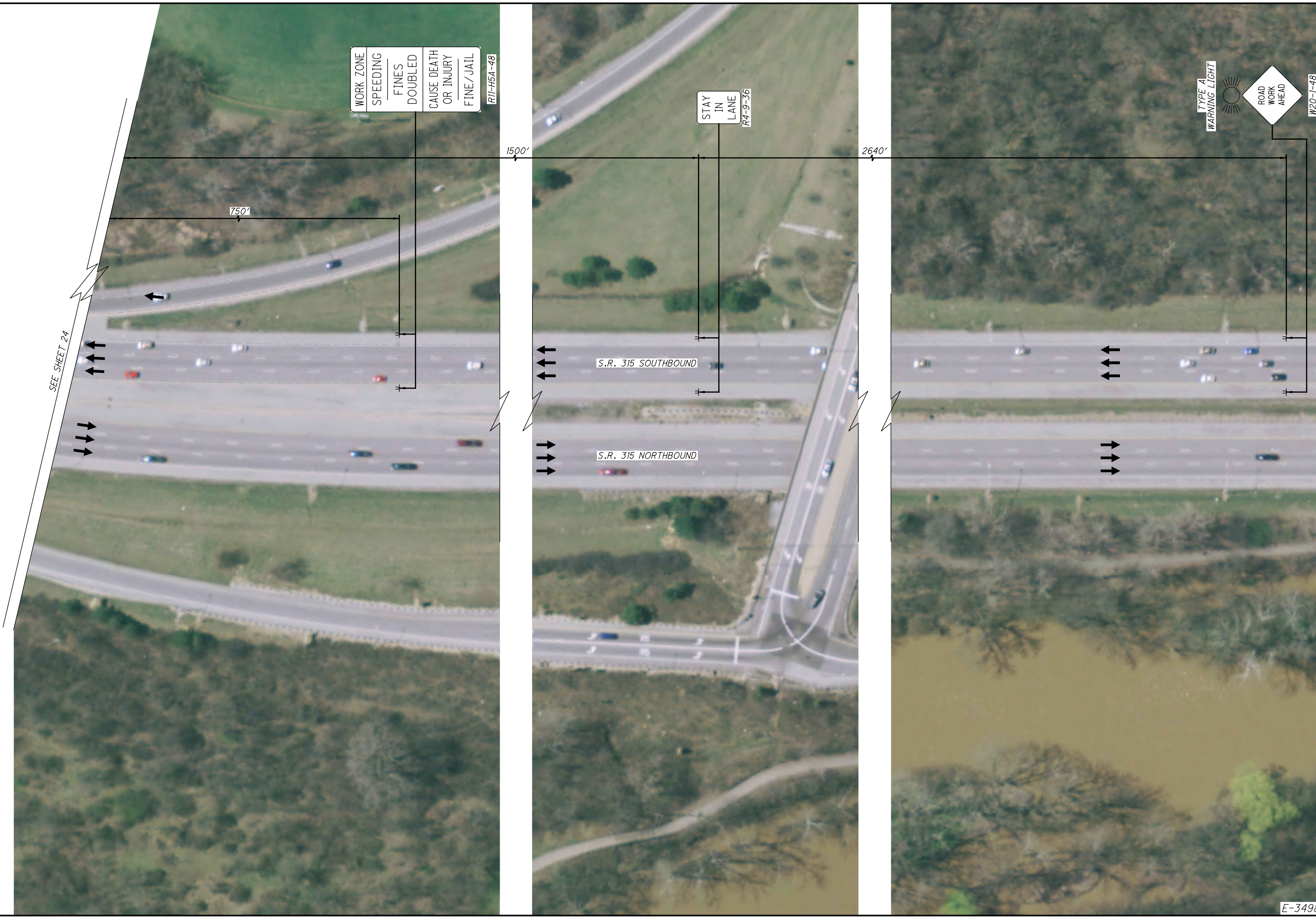


NOTE:
 1.) REMOVE CONFLICTING PAVEMENT MARKINGS AND EXISTING RAISED PAVEMENT MARKER REFLECTORS AFTER THE COMPLETION OF PHASE 1. PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS SHALL BE RESTORED TO EXISTING CONDITIONS AFTER THE COMPLETION OF PHASE 2.

CALCULATED	STC	CHECKED	JDH
  HORIZONTAL SCALE IN FEET			

MAINTENANCE OF TRAFFIC PLAN - WALL 6
PHASE 2

FRA-315-7.13
NOISE WALLS



	<p>HORIZONTAL SCALE IN FEET</p>	CALCULATED STC	MAINTENANCE OF TRAFFIC PLAN - WALL 6
		CHECKED JDH	PHASE 2

FRA-315-7.13
NOISE WALLS

E-3498

25
80

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Table with columns: SHEET NUM. (4, 28, 77, etc.), PART. (01/NHS/OT, 02/NHS/OT), ALT (X), ITEM, ITEM EXT, GRAND TOTAL, UNIT, DESCRIPTION, SEE SHEET NO. (4, 5, 76, 76, 76, 76). Includes sub-sections: ROADWAY, EROSION CONTROL, DRAINAGE, PAVEMENT, WATER WORK, TRAFFIC SURVEILLANCE.

GENERAL SUMMARY

FRA -315-7.13 NOISE WALLS

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SHEET NUM.										PART.		ALT (X)	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
6	7	18	28	58	77					01/NHS/OT	02/NHS/OT							
					2,059						2,059		804	15010	2,059	FT	TRAFFIC SURVEILLANCE (CONT.)	
					1						1		804	34022	1	EACH	FIBER OPTIC CABLE, 24 FIBER	
					1						1		804	37000	1	EACH	FIBER TERMINATION PANEL, 24 FIBER	
					160						160		809	64550	160	FT	SPLICE ENCLOSURE, BUTT STYLE	
					1						1		809	65040	1	EACH	ETHERNET CABLE, OUTDOOR-RATED	
					1						1		809	65990	1	EACH	ITS CABINET - DMS	
					1						1		809	65990	1	EACH	ITS DEVICE, MISC.: REMOVAL OF DMS CABINET	76
					1						1		809	65990	1	EACH	ITS DEVICE, MISC.: REMOVAL OF DMS SIGN	76
																	TRAFFIC CONTROL	
		115									115		621	00301	115	EACH	RPM REFLECTOR, AS PER PLAN	18
		115									115		621	54001	115	EACH	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN	18
			1								1		630	85400	1	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	
			2								2		630	86102	2	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	
		1.84									1.84		644	00104	1.84	MILE	EDGE LINE, 6"	
		2.06									2.06		644	00204	2.06	MILE	LANE LINE, 6"	
		589									589		644	00404	589	FT	CHANNELIZING LINE, 12"	
		840									840		644	01520	840	FT	DOTTED LINE, 12"	
		0.06									0.06		646	10010	0.06	MILE	EDGE LINE, 6"	
		0.06									0.06		646	10110	0.06	MILE	LANE LINE, 6"	
		150									150		646	20510	150	FT	DOTTED LINE, 12"	
																	WALL 6	
					2,073						2,073		202	23000	2,073	SY	PAVEMENT REMOVED	
					1,513						1,513		202	30700	1,513	FT	CONCRETE BARRIER REMOVED	
					LS						LS		503	21300	LS		UNCLASSIFIED EXCAVATION	
					181,011						181,011		509	10000	181,011	LB	EPOXY COATED REINFORCING STEEL	
					592						592		511	46012	592	CY	CLASS QCI CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING	
					1,162						1,162		511	46512	1,162	CY	CLASS QCI CONCRETE WITH QC/QA, FOOTING	
					1,737						1,737		512	10100	1,737	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
					26						26		516	13600	26	SF	1" PREFORMED EXPANSION JOINT FILLER	
					801						801		516	13900	801	SF	2" PREFORMED EXPANSION JOINT FILLER	
					13,462						13,462		SPECIAL	60610920	13,462	SF	NOISE BARRIER, MISC.: BARRIER MOUNTED NOISE WALL	58
					2						2		622	10201	2	EACH	BARRIER TRANSITION, AS PER PLAN	73
					2						2		622	90200	2	EACH	BARRIER, MISC.: END ANCHORAGE, REINFORCED	73
																	NOISE BARRIERS	
			35,256								35,256		SPECIAL	60610210	35,256	SF	NOISE BARRIER (REFLECTIVE)	4
																	MAINTENANCE OF TRAFFIC	
	640										640		614	1110	640	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
		2,580									2,580		614	11630	2,580	FT	INCREASED BARRIER DELINEATION	
		1									1		614	12380	1	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
LS											LS		614	12420	LS		DETOUR SIGNING	
4											4		614	12484	4	EACH	WORK ZONE INCREASED PENALTIES SIGN	
		276									276		614	12801	276	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	18
		52									52		614	13310	52	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY	
		52									52		614	13350	52	EACH	OBJECT MARKER, ONE WAY	
8											8		614	18601	8	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	6
		1.3									1.3		614	20200	1.3	MILE	WORK ZONE LANE LINE, CLASS I, 4", 740.06, TYPE I	
		2.01									2.01		614	22200	2.01	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 740.06, TYPE I	
		4,323									4,323		614	23400	4,323	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 740.06, TYPE I	
		830									830		614	24400	830	FT	WORK ZONE DOTTED LINE, CLASS I, 4", 740.06, TYPE I	
		276									276		621	00100	276	EACH	RPM	
		2,580									2,580		622	41100	2,580	FT	PORTABLE BARRIER, UNANCHORED	
																	INCIDENTALS	
											LS	LS	614	11000	LS		MAINTAINING TRAFFIC	
											6		619	16010	6	MNTH	FIELD OFFICE, TYPE B	
											LS	LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											LS	LS	624	10000	LS		MOBILIZATION	
																	TRAFFIC SURVEILLANCE ALTERNATES	
					1						1	X	809	63000	1	EACH	DYNAMIC MESSAGE SIGN (DMS), FULL-SIZE WALK-IN (ALTERNATE 1)	
											1	X	809	65990	1	EACH	ITS DEVICE, MISC.: DYNAMIC MESSAGE SIGN - FULL COLOR WALK-IN (ALTERNATE 2)	77

GENERAL SUMMARY

FRA-315-7.13
NOISE WALLS

27
80

E-3498

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REF. NO.	SHEET NO.	STATION		SIDE	202	202	605	606	606	606	606	606	607	609	611	611	611	630	630	899	
		CATCH BASIN REMOVED	FENCE REMOVED		6" UNCLASSIFIED PIPE UNDERDRAINS	GUARDRAIL, TYPE MGS	ANCHOR ASSEMBLY, MGS TYPE E	ANCHOR ASSEMBLY, MGS TYPE T	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	SPECIAL - NOISE BARRIER (REFLECTIVE)	GUARDRAIL, MISC.: GUARDRAIL PANELS REMOVED AND REATTACHED	FENCE, TYPE CLT	CURB, TYPE 4-C	15" CONDUIT, TYPE C	CATCH BASIN, NO. 2-3	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	CURED-IN-PLACE PIPE LINER (15" DIAMETER)		
		EACH	FT		FT	FT	EACH	EACH	EACH	SF	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT		
R-1	31	400+00.39	403+34.42	RT		335															
R-2	36	505+69.03	507+05.78	LT		144															
R-3	33	603+78.04		RT	1																
R-4	35	611+02.05		RT	1																
R-5	37	509+75.75		LT													1	2			
GR-1	31	400+25.44	403+51.67	RT				312.5		1	1										
GR-2	31-32	402+54.05	405+67.20	LT				262.5	1												
GR-3	36-38	505+81.00	517+20.00	LT								1138									
W-4	31-32	400+00.00	409+72.00	RT									15312								
W-5	36-38	504+64.00	517+20.00	RT									19944								
F-1	31	400+00.00	400+00.39	RT									9								
F-2	36	507+05.78	507+05.78	LT									8								
C-1	36-38	505+80.71	517+27.00	RT										1145							
D-1	31	401+00.00		RT												1					
D-2	31	401+00.00	401+55.24	LT/RT										62							
D-3	33	601+49.45	603+78.02	RT												1				228	
D-4	35	611+02.06		RT												1					
UD-1	31	400+00.00	401+00.00	RT			100														
UD-2	31	401+00.00	401+00.00	RT			8														
UD-3	31	401+00.00	404+00.70	RT			301														
UD-4	33	600+48.84	603+78.02	RT			329														
UD-5	33	603+78.02	603+78.02	RT			8														
UD-6	33-35	603+78.02	611+02.06	RT			725														
UD-7	35	611+02.06	611+02.06	RT			8														
UD-8	35	611+02.06	614+91.02	RT			389														
TOTALS CARRIED TO GENERAL SUMMARY					2	479	1868	575	1	1	1	35256	1138	17	1145	62	1	2	1	2	228

SEEDING AND MULCHING:
 SEEDING AND MULCHING QUANTITIES HAVE BEEN PROVIDED AT THE FOLLOWING LOCATIONS:

WALL 4 - STA. 400+00.00 TO STA. 409+73.00
 WALL 5 - STA. 504+64.00 TO STA. 517+20.00
 WALL 6 - STA. 600+33.76 TO STA. 615+26.11

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

ITEM 659-SEEDING AND MULCHING 9063 SY

ITEM 659-REPAIR SEEDING AND MULCHING 454 SY
 (9063 SY) X (0.05 OF SEEDING AND MULCHING)

ITEM 659-INTER-SEEDING 454 SY
 (9063 SY) X (0.05 OF SEEDING AND MULCHING)

ITEM 659-COMMERCIAL FERTILIZER 1.26 TON
 (9063 SY) X (1 TON/7410 SY OF SEEDING AND MULCHING)
 + (454 SY) X (1 TON/11110 SY OF INTER-SEEDING)

ITEM 659-LIME 1.87 ACRE
 (9063 SY) X (1 ACRE/4840 SY OF SEEDING AND MULCHING)

ITEM 659-WATER 51 MGAL
 (9063 SY) X (2 X 0.0027 MGAL/SY OF SEEDING AND MULCHING)
 + (454 SY) X (0.0027 MGAL/SY OF INTER-SEEDING)

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.

CALCULATED JMK CHECKED RMH
ESTIMATED QUANTITIES
FRA-315-7.13 NOISE WALLS
 28
 80
 E-3498

EARTHWORK AND SEEDING		
SHEET NO.	203	203
	EXCAVATION	EMBANKMENT
	CY	CY
WALL 4		
39	0	40
40	0	0
41	0	0
42	0	0
WALL 5		
48	22	7
49	42	12
50	41	23
51	40	19
52	7	3
TOTALS CARRIED TO GENERAL SUMMARY	152	104

PAVEMENT												
STATION RANGE	ROUTE	SIDE	LENGTH L (FT)	AVERAGE WIDTH W (FT)	SURFACE AREA A (SF)	A=LxW	204	204	301	304	407	441
							SUBGRADE COMPACTION	PROOF ROLLING	ASPHALT CONCRETE BASE, PG64-22	AGGREGATE BASE	TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE I, (446), PG64-22
							SY	HR	CY	CY	GAL	CY
505+80.71 TO 517+27.00	S.R. 315 CURB - WALL 5 (FULL DEPTH)	RT	1146.29	2.00	2292.58		254.73	0.13	49.53	63.68	15.28	10.61
600+48.84 TO 614+91.02	S.R. 315 SHOULDER - WALL 6 (FULL DEPTH)	RT	1442.18	10.00	14421.80		1602.42	0.80	311.58	400.61	96.15	66.77
TOTALS CARRIED TO GENERAL SUMMARY							1,858	1	362	465	112	78

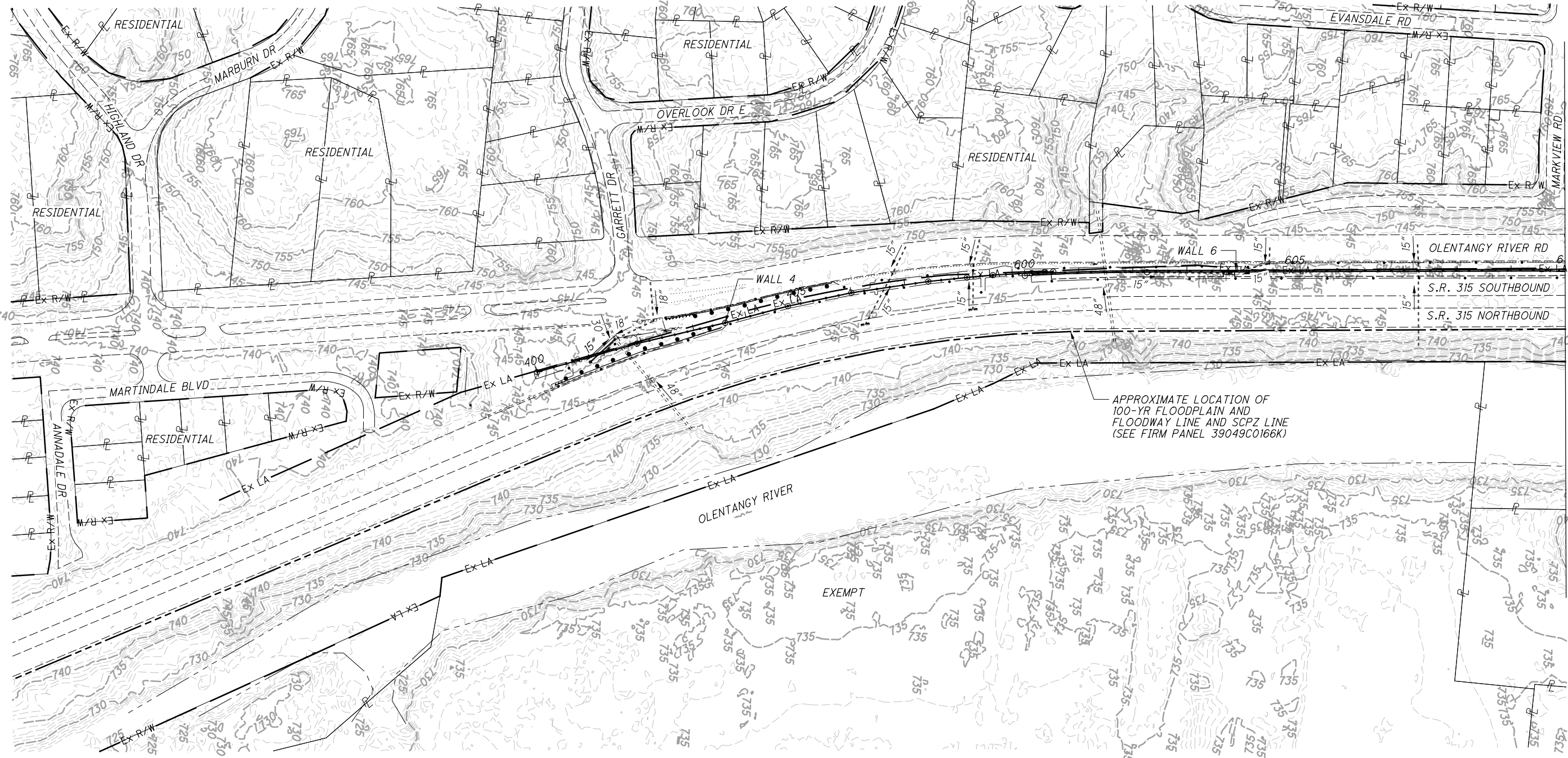
PROJECT DATA			
TOTAL AREA (RIGHT OF WAY)	33.11 AC.	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.62
PROJECT EARTH DISTURBED AREA	1.87 AC.	RUNOFF COEFFICIENT FOR POST CONSTRUCTION SITE	0.62
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.25 AC.	POST CONSTRUCTION BMP	NONE
NOTICE OF INTENT EARTH DISTURBED AREA	4.9 AC. (NOI NOT REQUIRED)	IMMEDIATE RECEIVING WATERS	OLENTANGY RIVER
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	15.88 AC.	SUBSEQUENT RECEIVING WATER	SCIOTO RIVER
IMPERVIOUS (PAVED) AREA FOR POST CONSTRUCTION SITE	15.90 AC.		

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW NOISE BARRIER WALL ALONG SR-315 SB BETWEEN HENDERSON RD AND GARRETT DR IN FRANKLIN COUNTY, OHIO. ALSO INCLUDED IS THE REMOVAL AND REPLACEMENT OF THE MONOTUBE DMS SUPPORT AT SR-315 SB SOUTH OF HENDERSON RD AND INSTALLATION OF NEW PEDESTAL MOUNTED WALK-IN DMS SIGN.

USGS MAP: NORTHWEST COLUMBUS QUADRANGLE, NORTHWEST COLUMBUS, OH
 LONGITUDE: 83° 02' 00" *
 LATITUDE: 40° 02' 50" *

* LONGITUDE AND LATITUDE TO APPROX. CENTER OF PROJECT



APPROXIMATE LOCATION OF 100-YR FLOODPLAIN AND FLOODWAY LINE AND SCPZ LINE (SEE FIRM PANEL 39049C0166K)

MATCHLINE STA. 610+00 - WALL 6
 SEE SHEET 30



CALCULATED JMK CHECKED RMH

PROJECT SITE PLAN - SR-315

FRA-315-7.13 NOISE WALLS

29/80

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PROJECT DATA

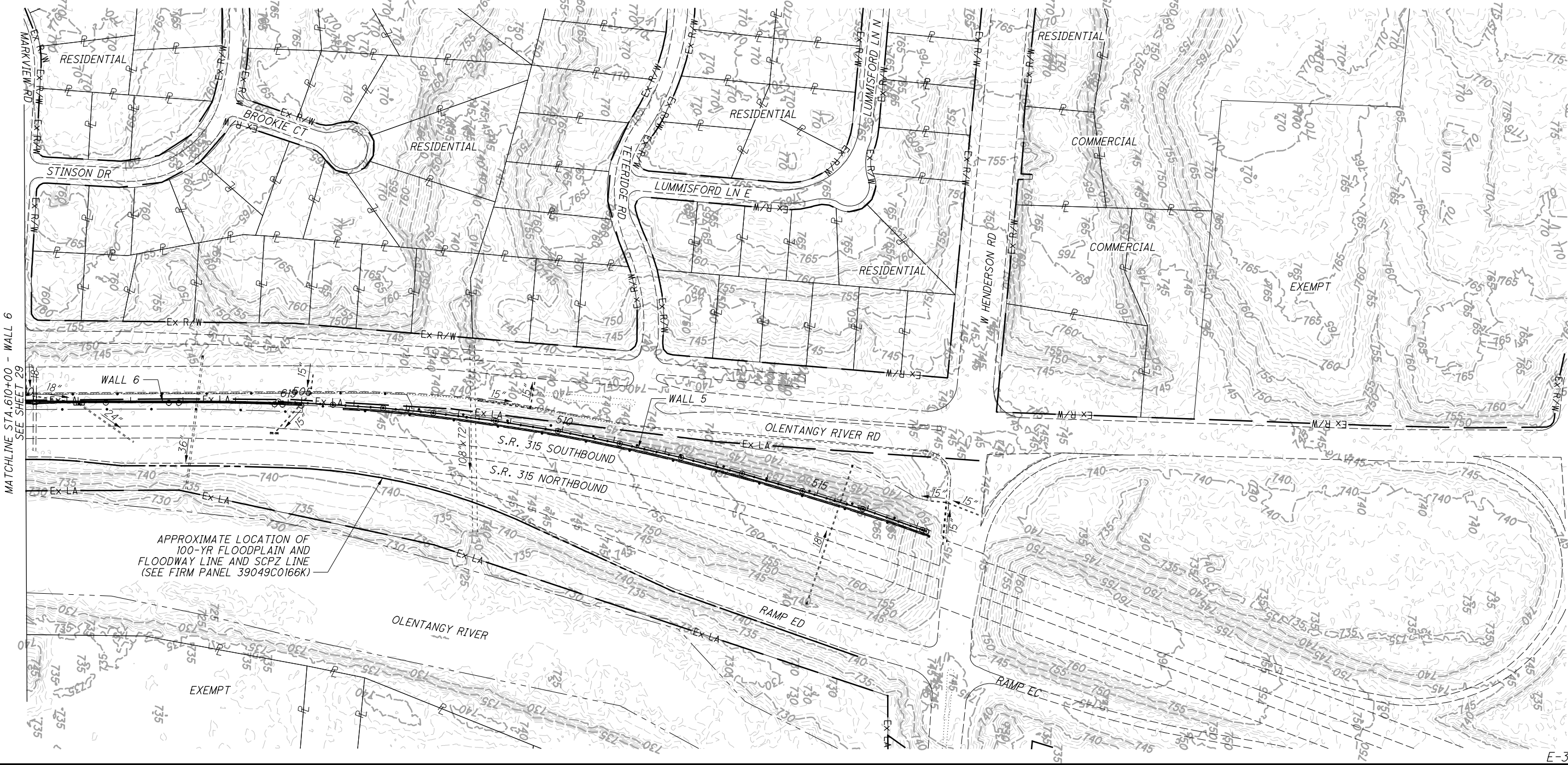
TOTAL AREA (RIGHT OF WAY)	33.11 AC.	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.62
PROJECT EARTH DISTURBED AREA	1.87 AC.	RUNOFF COEFFICIENT FOR POST CONSTRUCTION SITE	0.62
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.25 AC.	POST CONSTRUCTION BMP	NONE
NOTICE OF INTENT EARTH DISTURBED AREA	4.9 AC. (NOI NOT REQUIRED)	IMMEDIATE RECEIVING WATERS	OLENTANGY RIVER
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	15.88 AC.	SUBSEQUENT RECEIVING WATER	SCIOTO RIVER
IMPERVIOUS (PAVED) AREA FOR POST CONSTRUCTION SITE	15.90 AC.		

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW NOISE BARRIER WALL ALONG SR-315 SB BETWEEN HENDERSON RD AND GARRETT DR IN FRANKLIN COUNTY, OHIO. ALSO INCLUDED IS THE REMOVAL AND REPLACEMENT OF THE MONOTUBE DMS SUPPORT AT SR-315 SB SOUTH OF HENDERSON RD AND INSTALLATION OF NEW PEDESTAL MOUNTED WALK-IN DMS SIGN.

USGS MAP: NORTHWEST COLUMBUS QUADRANGLE, NORTHWEST COLUMBUS, OH
 LONGITUDE: 83° 02' 00" *
 LATITUDE: 40° 02' 50" *


* LONGITUDE AND LATITUDE TO APPROX. CENTER OF PROJECT







 CALCULATED JMK
 CHECKED RMH

PROJECT SITE PLAN - SR-315
 FRA-315-7.13
 NOISE WALLS


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 MATCHLINE STA. 610+00 - WALL 6
 SEE SHEET 29

NOTE:
REFER TO SHEET 4 FOR STORM, SANITARY, WATER, AND
UTILITY LINE PROTECTION NOTES AND REQUIREMENTS.

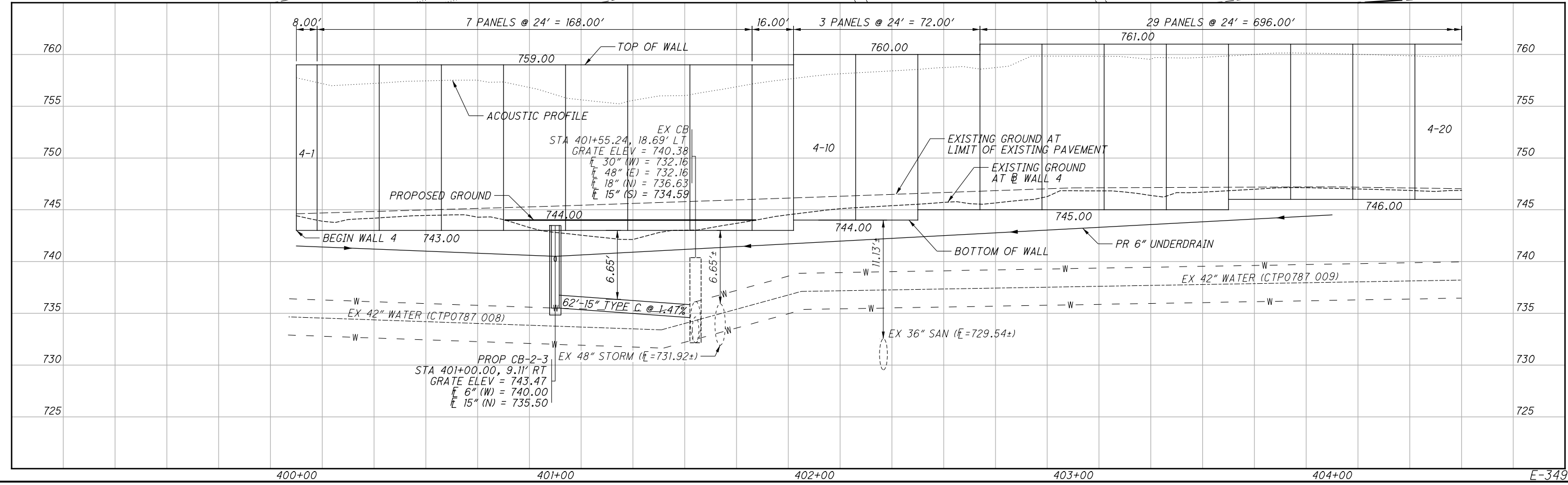
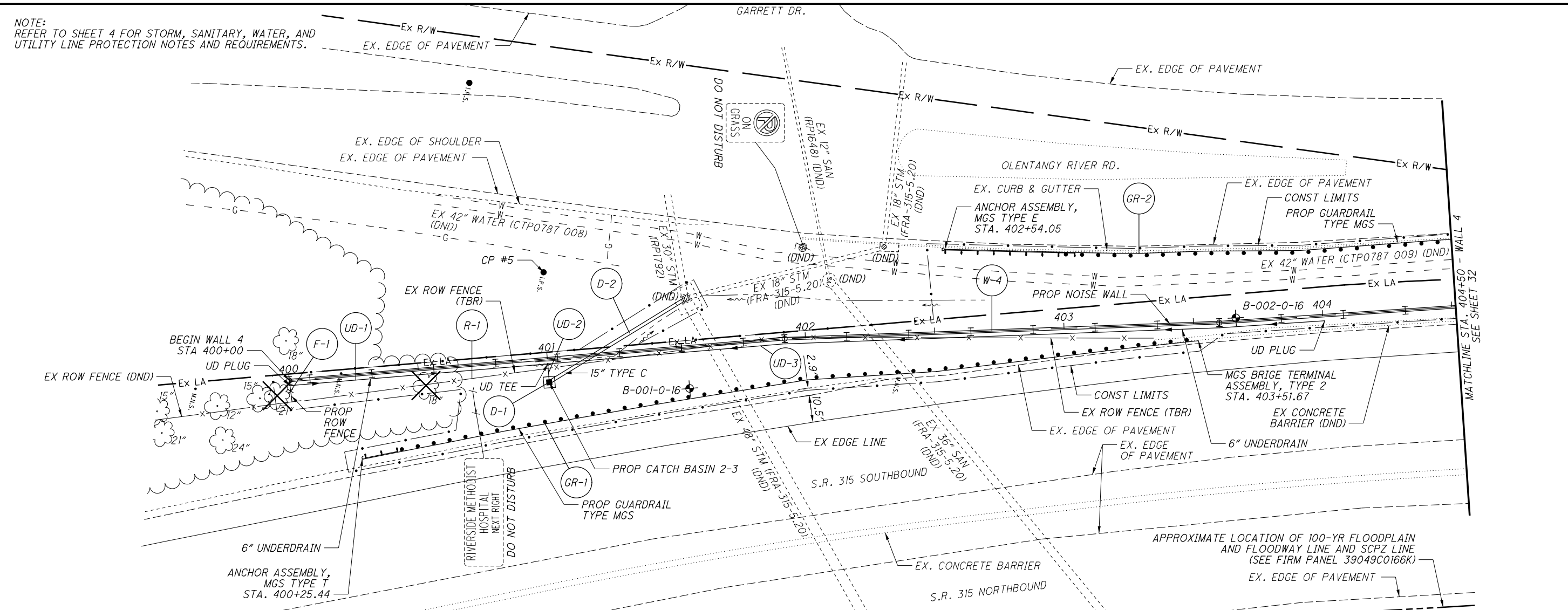


CALCULATED
BMM
CHECKED
RMH

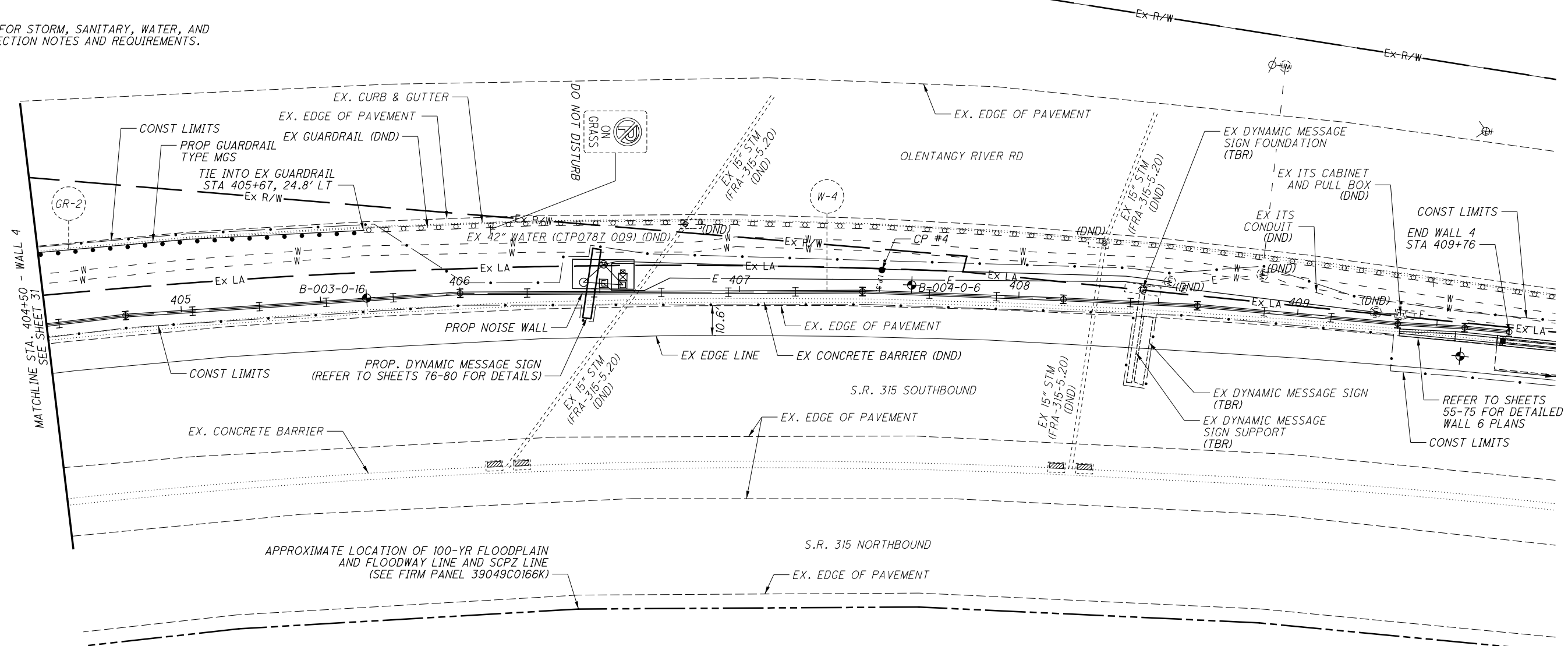
**PLAN AND PROFILE - S.R. 315
WALL 4 - STA. 400+00.00 TO STA. 404+50.00**

**FRA-315-7.13
NOISE WALLS**

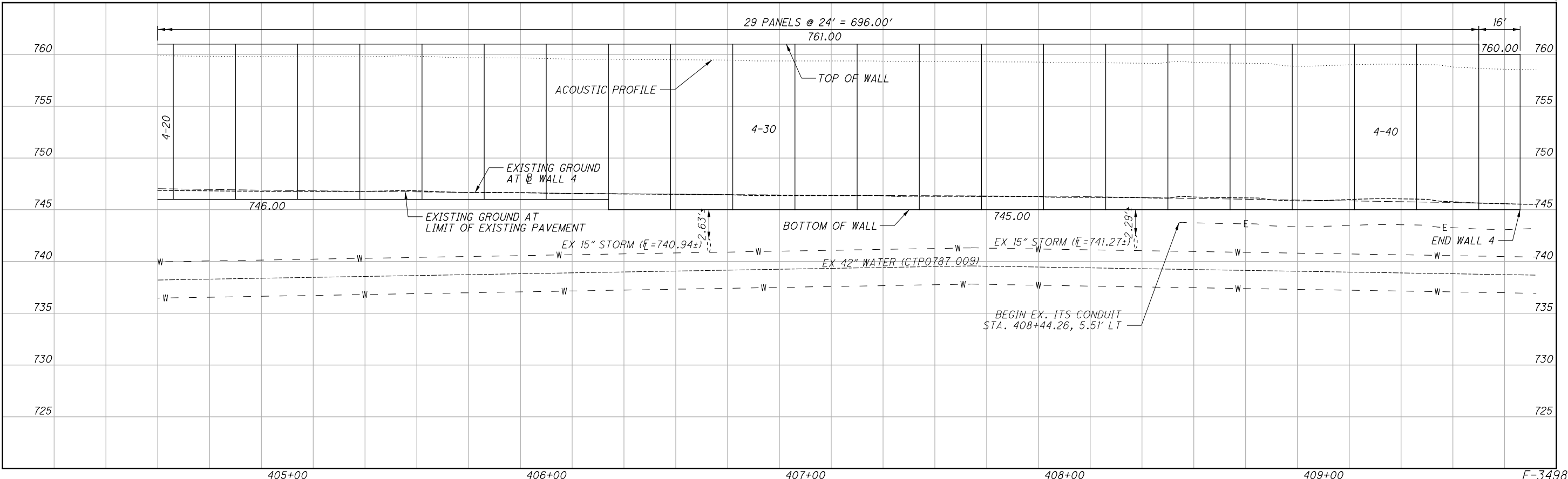
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NOTE:
REFER TO SHEET 4 FOR STORM, SANITARY, WATER, AND
UTILITY LINE PROTECTION NOTES AND REQUIREMENTS.



APPROXIMATE LOCATION OF 100-YR FLOODPLAIN AND FLOODWAY LINE AND SCPZ LINE (SEE FIRM PANEL 39049C0166K)

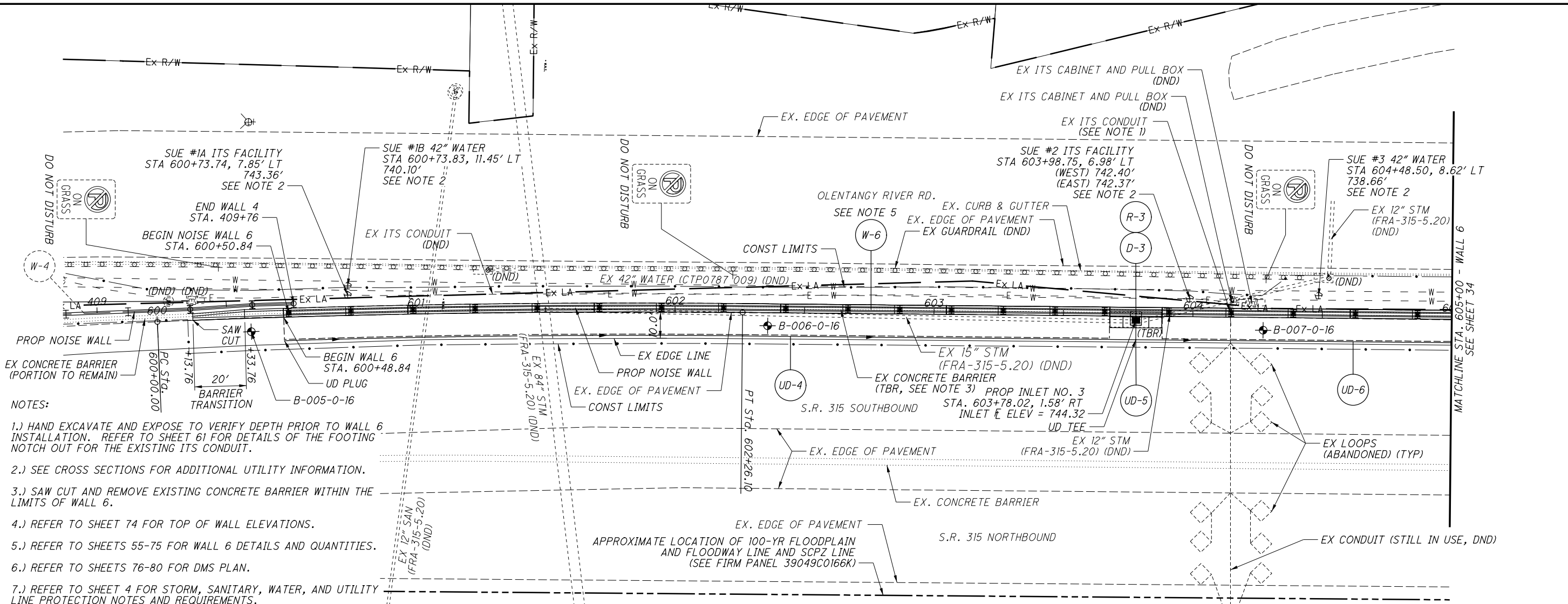


PLAN AND PROFILE - S.R. 315
WALL 4 - STA. 404+50.00 TO STA. 409+76.00

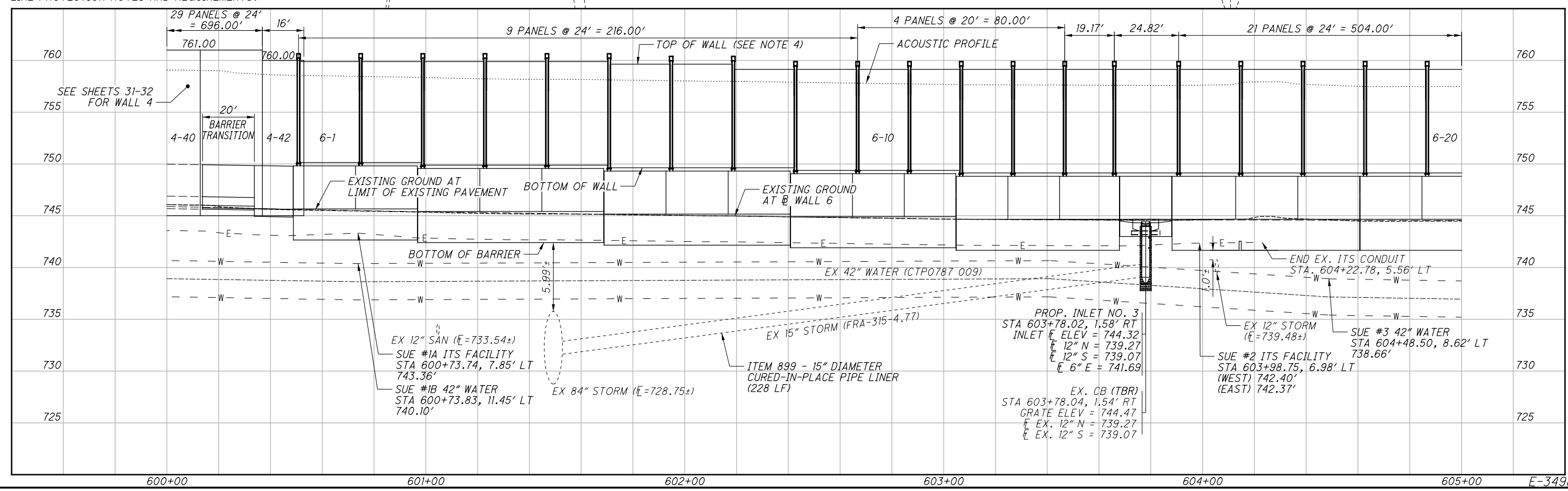
FRA-315-7.13
NOISE WALLS

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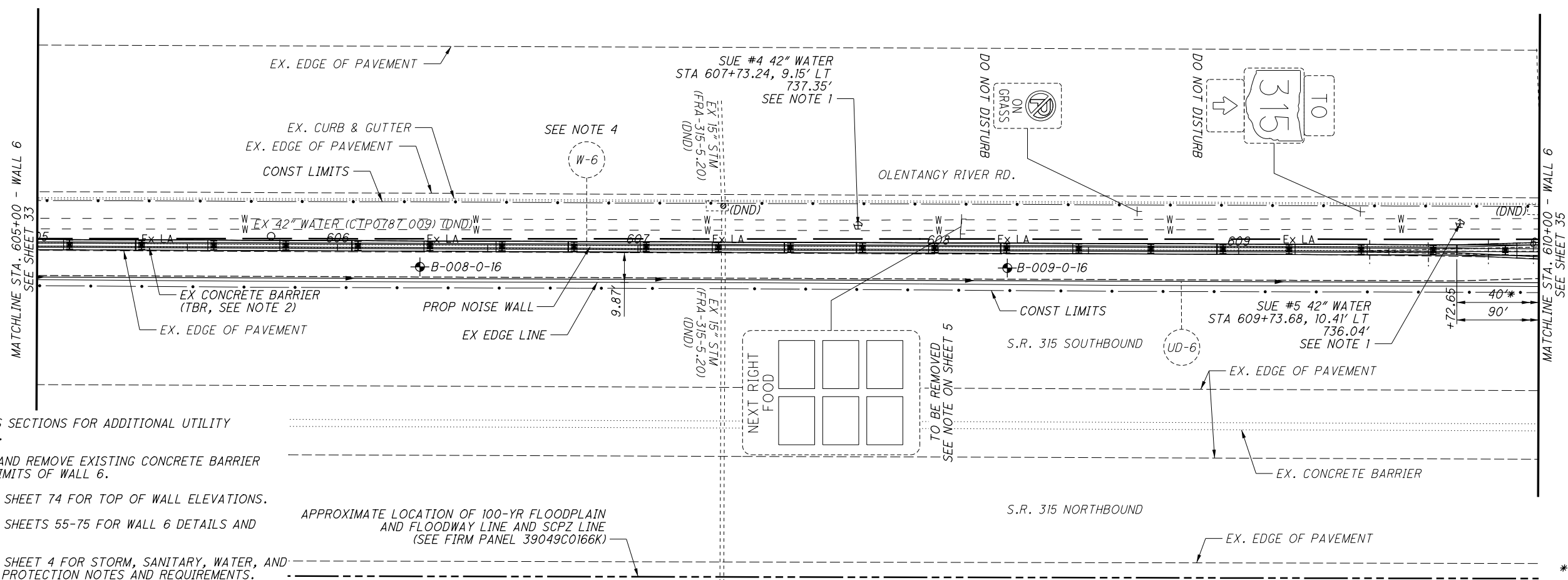
- NOTES:
- 1.) HAND EXCAVATE AND EXPOSE TO VERIFY DEPTH PRIOR TO WALL 6 INSTALLATION. REFER TO SHEET 61 FOR DETAILS OF THE FOOTING NOTCH OUT FOR THE EXISTING ITS CONDUIT.
 - 2.) SEE CROSS SECTIONS FOR ADDITIONAL UTILITY INFORMATION.
 - 3.) SAW CUT AND REMOVE EXISTING CONCRETE BARRIER WITHIN THE LIMITS OF WALL 6.
 - 4.) REFER TO SHEET 74 FOR TOP OF WALL ELEVATIONS.
 - 5.) REFER TO SHEETS 55-75 FOR WALL 6 DETAILS AND QUANTITIES.
 - 6.) REFER TO SHEETS 76-80 FOR DMS PLAN.
 - 7.) REFER TO SHEET 4 FOR STORM, SANITARY, WATER, AND UTILITY LINE PROTECTION NOTES AND REQUIREMENTS.



PLAN AND PROFILE - S.R. 315
WALL 6 - STA. 600+00.00 TO STA. 605+00.00

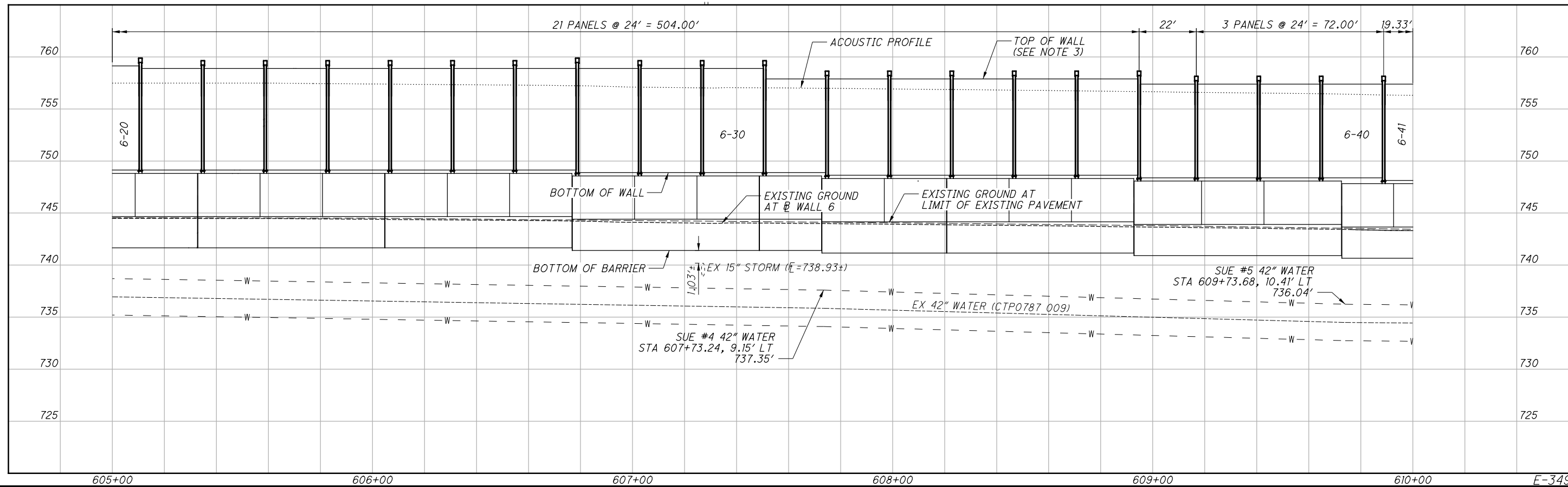
FRA-315-7.13
NOISE WALLS

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- NOTES:
- 1.) SEE CROSS SECTIONS FOR ADDITIONAL UTILITY INFORMATION.
 - 2.) SAW CUT AND REMOVE EXISTING CONCRETE BARRIER WITHIN THE LIMITS OF WALL 6.
 - 3.) REFER TO SHEET 74 FOR TOP OF WALL ELEVATIONS.
 - 4.) REFER TO SHEETS 55-75 FOR WALL 6 DETAILS AND QUANTITIES.
 - 5.) REFER TO SHEET 4 FOR STORM, SANITARY, WATER, AND UTILITY LINE PROTECTION NOTES AND REQUIREMENTS.

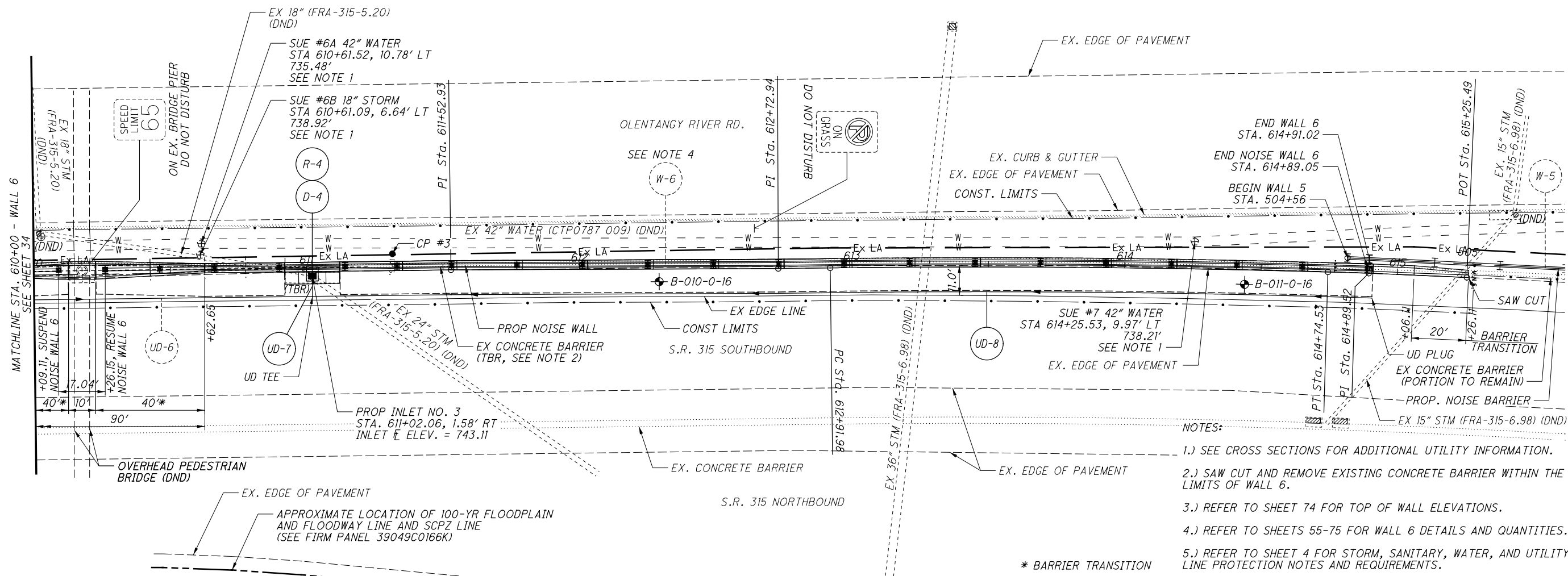
APPROXIMATE LOCATION OF 100-YR FLOODPLAIN AND FLOODWAY LINE AND SCPZ LINE (SEE FIRM PANEL 39049C0166K)



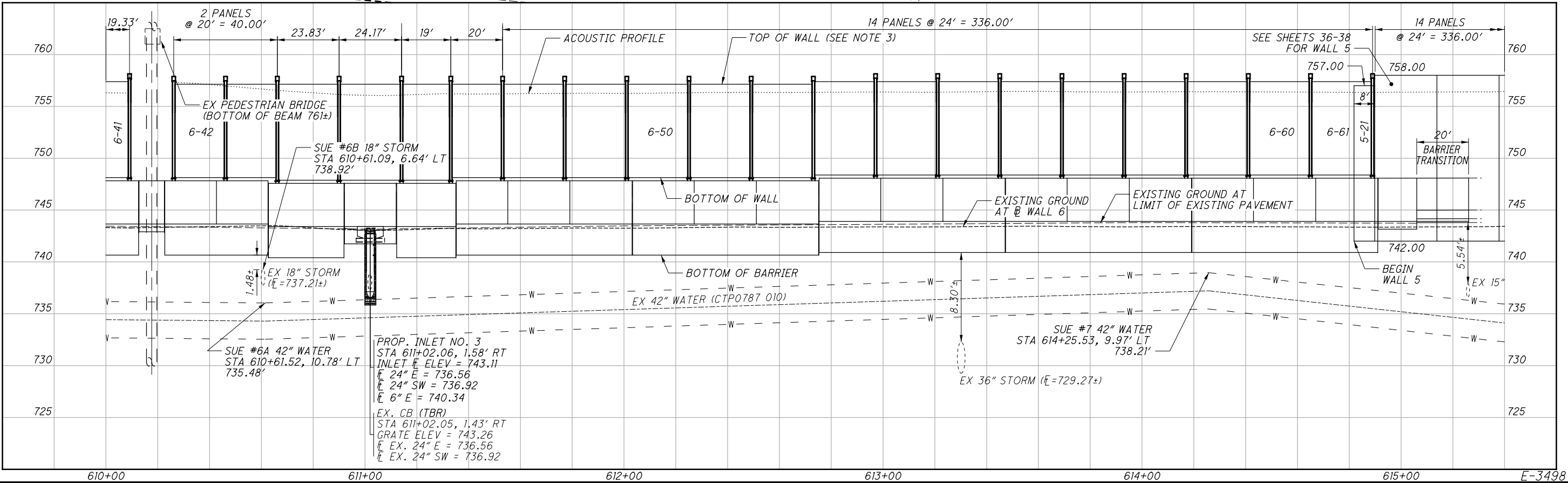
PLAN AND PROFILE - S.R. 315
WALL 6 - STA. 605+00.00 TO STA. 610+00.00

FRA-315-7.13
NOISE WALLS

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- NOTES:
- 1.) SEE CROSS SECTIONS FOR ADDITIONAL UTILITY INFORMATION.
 - 2.) SAW CUT AND REMOVE EXISTING CONCRETE BARRIER WITHIN THE LIMITS OF WALL 6.
 - 3.) REFER TO SHEET 74 FOR TOP OF WALL ELEVATIONS.
 - 4.) REFER TO SHEETS 55-75 FOR WALL 6 DETAILS AND QUANTITIES.
 - 5.) REFER TO SHEET 4 FOR STORM, SANITARY, WATER, AND UTILITY LINE PROTECTION NOTES AND REQUIREMENTS.



PLAN AND PROFILE - S.R. 315
WALL 6 - STA. 610+00.00 TO STA. 614+91.02

FRA-315-7.13
NOISE WALLS

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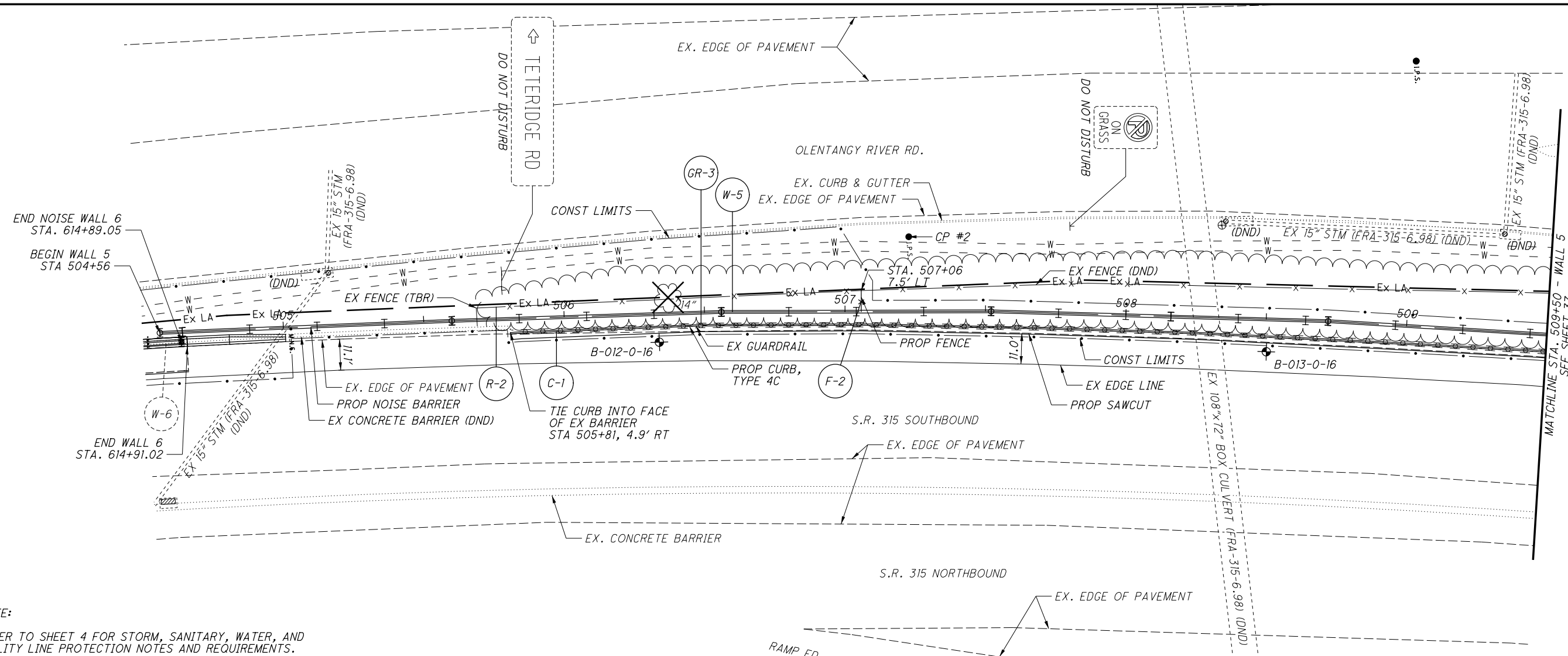




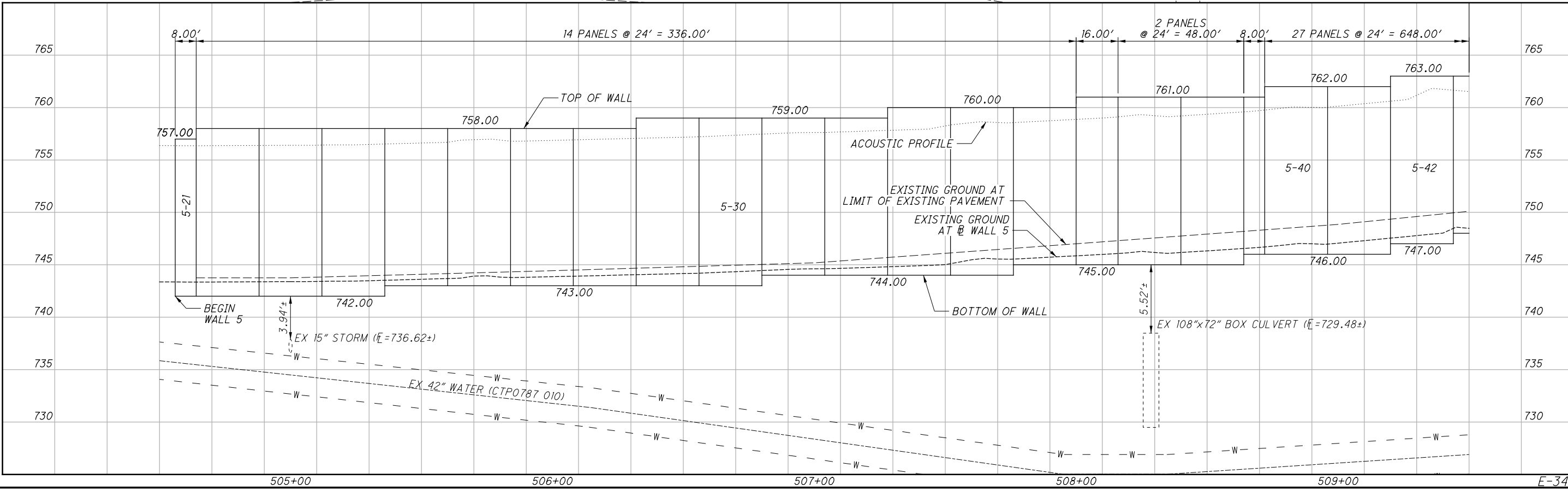
 HORIZONTAL SCALE IN FEET

CALCULATED BMM CHECKED RMH
PLAN AND PROFILE - S.R. 315
WALL 5 - STA. 504+56.00 TO STA. 509+50.00

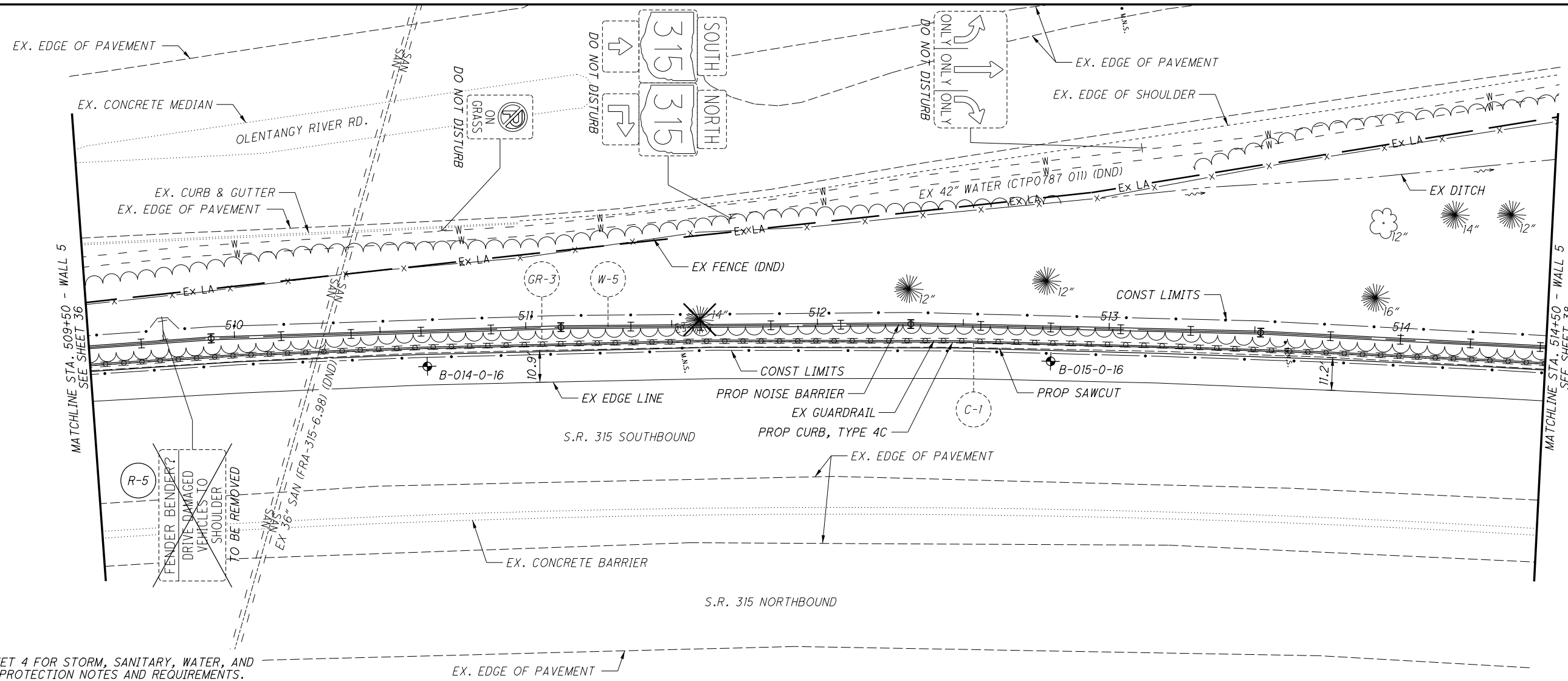
FRA-315-7.13
NOISE WALLS
 36
 80
 E-3498



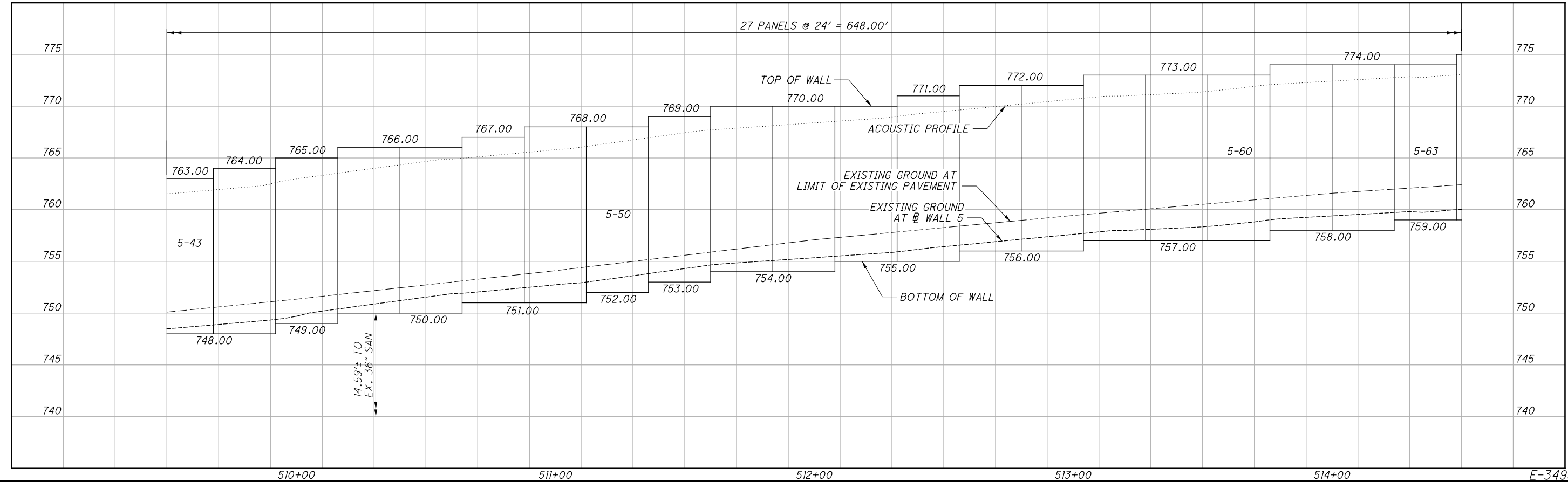
NOTE:
 REFER TO SHEET 4 FOR STORM, SANITARY, WATER, AND UTILITY LINE PROTECTION NOTES AND REQUIREMENTS.



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NOTE:
REFER TO SHEET 4 FOR STORM, SANITARY, WATER, AND UTILITY LINE PROTECTION NOTES AND REQUIREMENTS.



0 20 40
HORIZONTAL SCALE IN FEET

CALCULATED BMM CHECKED RMH

PLAN AND PROFILE - S.R. 315

WALL 5 - STA. 509+50.00 TO STA. 514+50.00

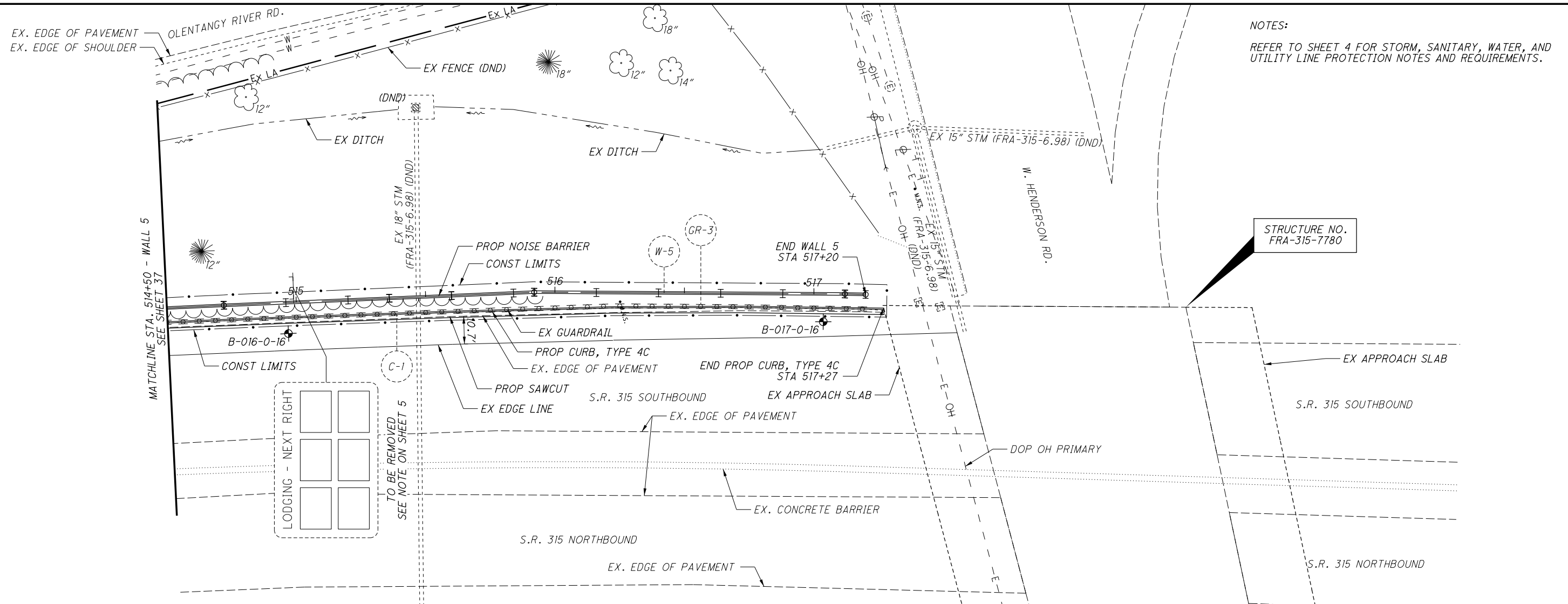
FRA-315-7.13

NOISE WALLS

37
80

E-3498

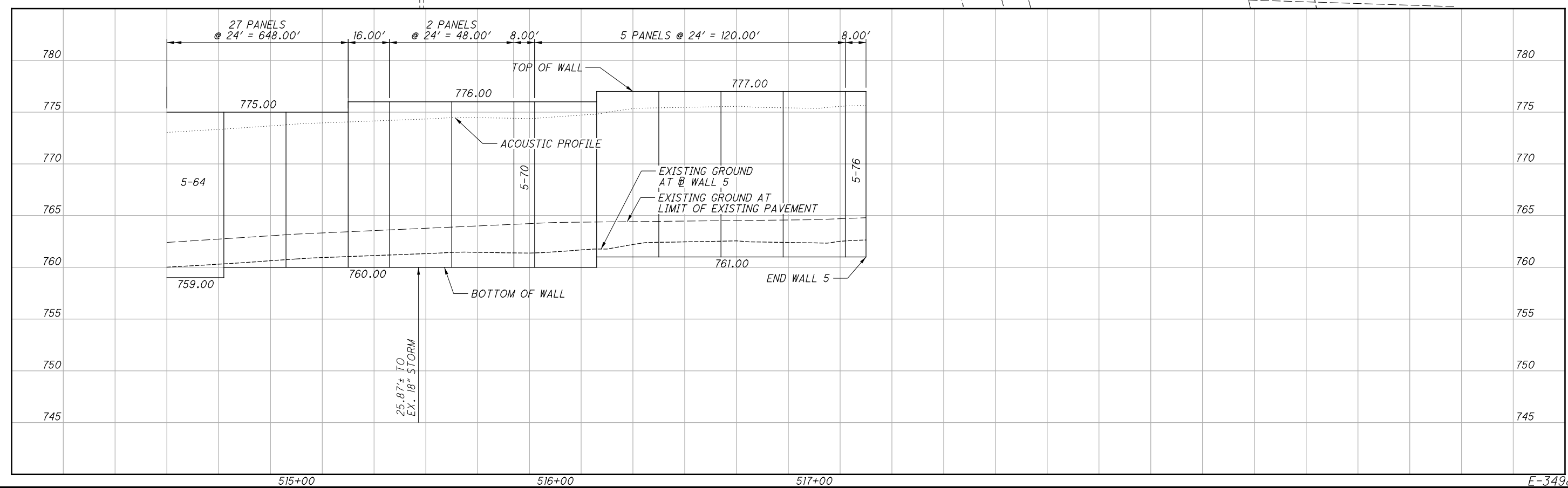
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NOTES:
REFER TO SHEET 4 FOR STORM, SANITARY, WATER, AND UTILITY LINE PROTECTION NOTES AND REQUIREMENTS.



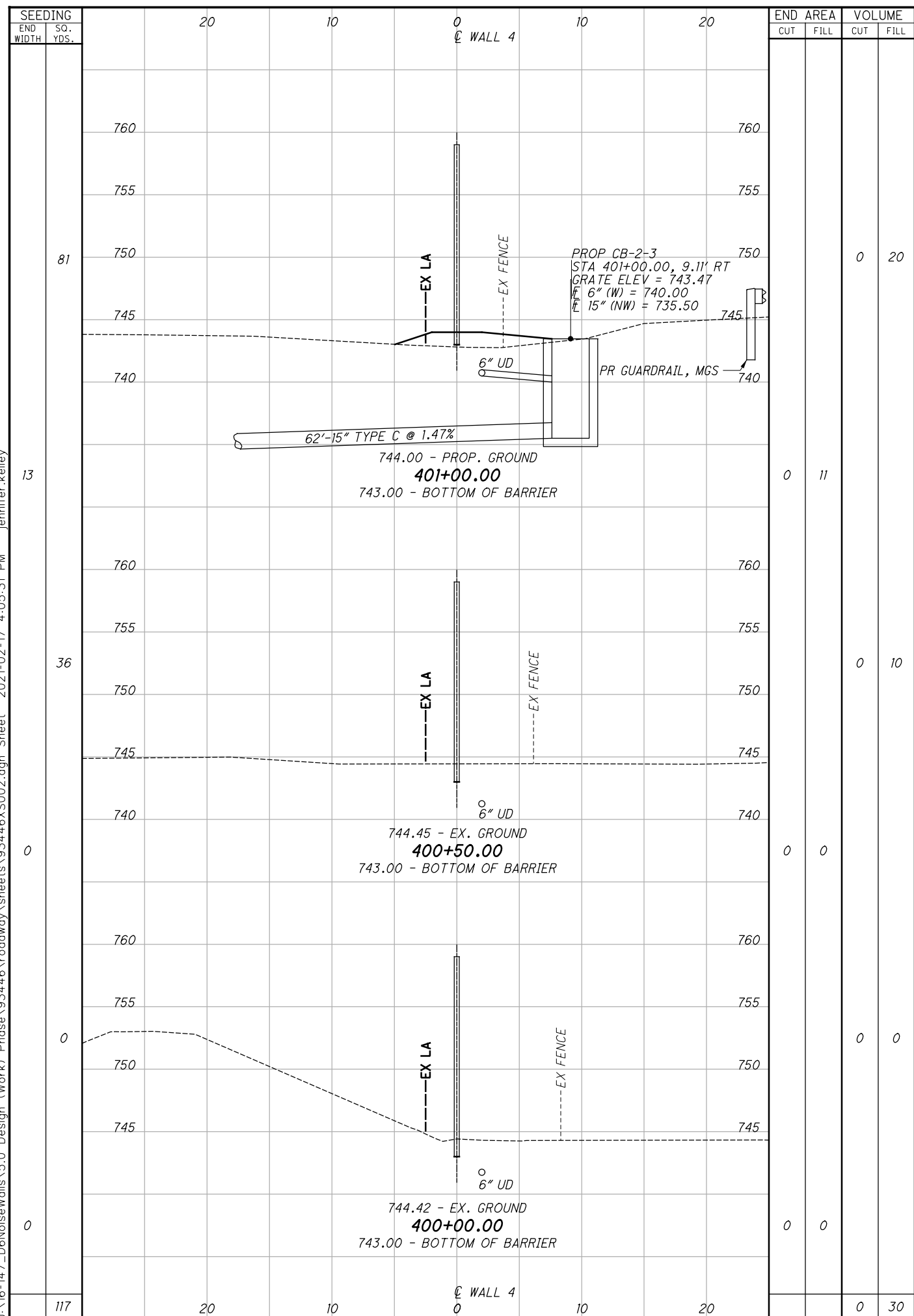
STRUCTURE NO.
FRA-315-7780



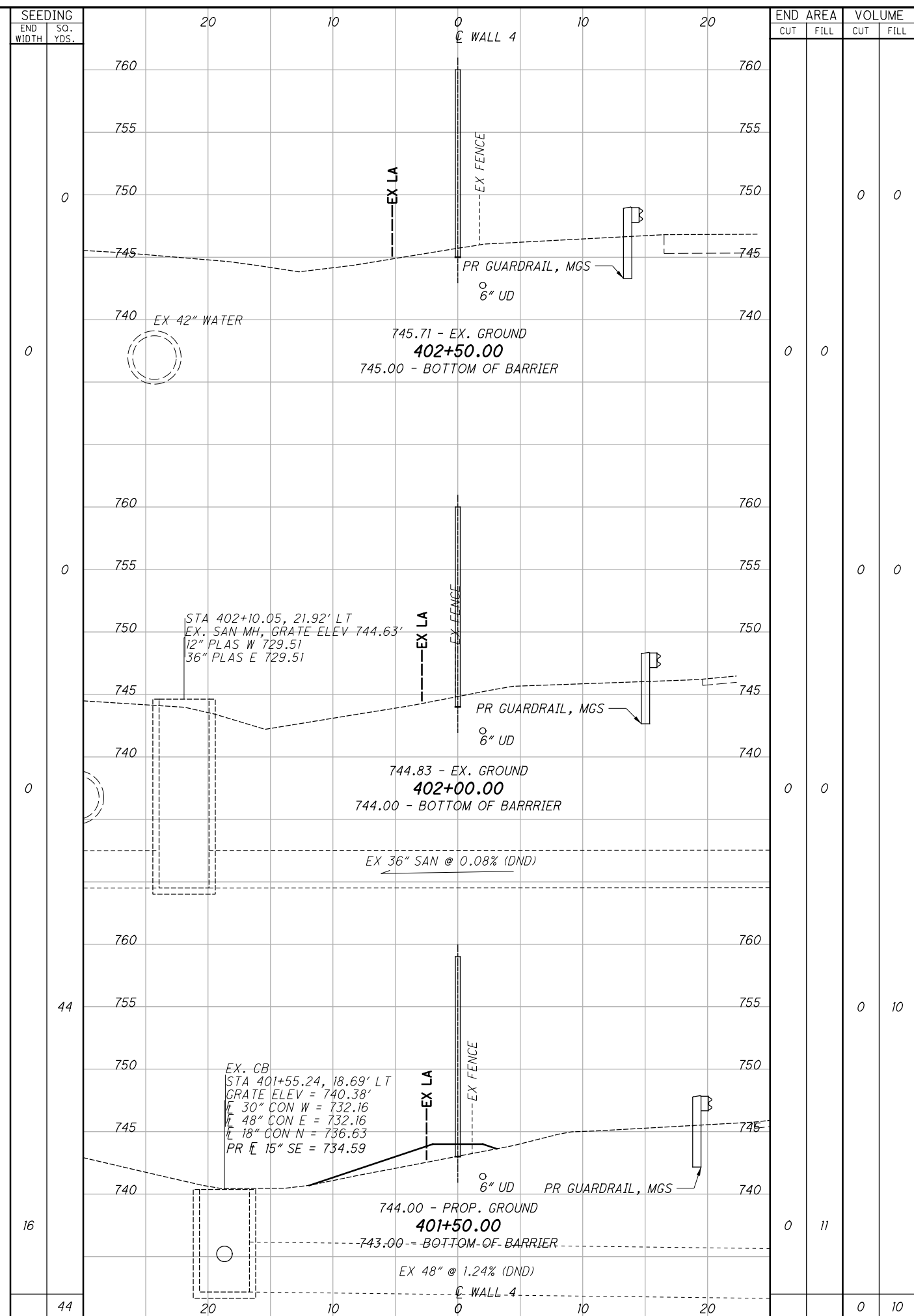
PLAN AND PROFILE - S.R. 315
WALL 5 - STA. 514+50.00 TO STA. 517+20.00

FRA-315-7.13
NOISE WALLS

J:\16-147_D6NoiseWalls\5.0 Design (Work) Phase\93446\Roadway\Sheets\93446X5002.dgn Sheet 2021-02-17 4:05:31 PM jennifer.kelley



E-3498

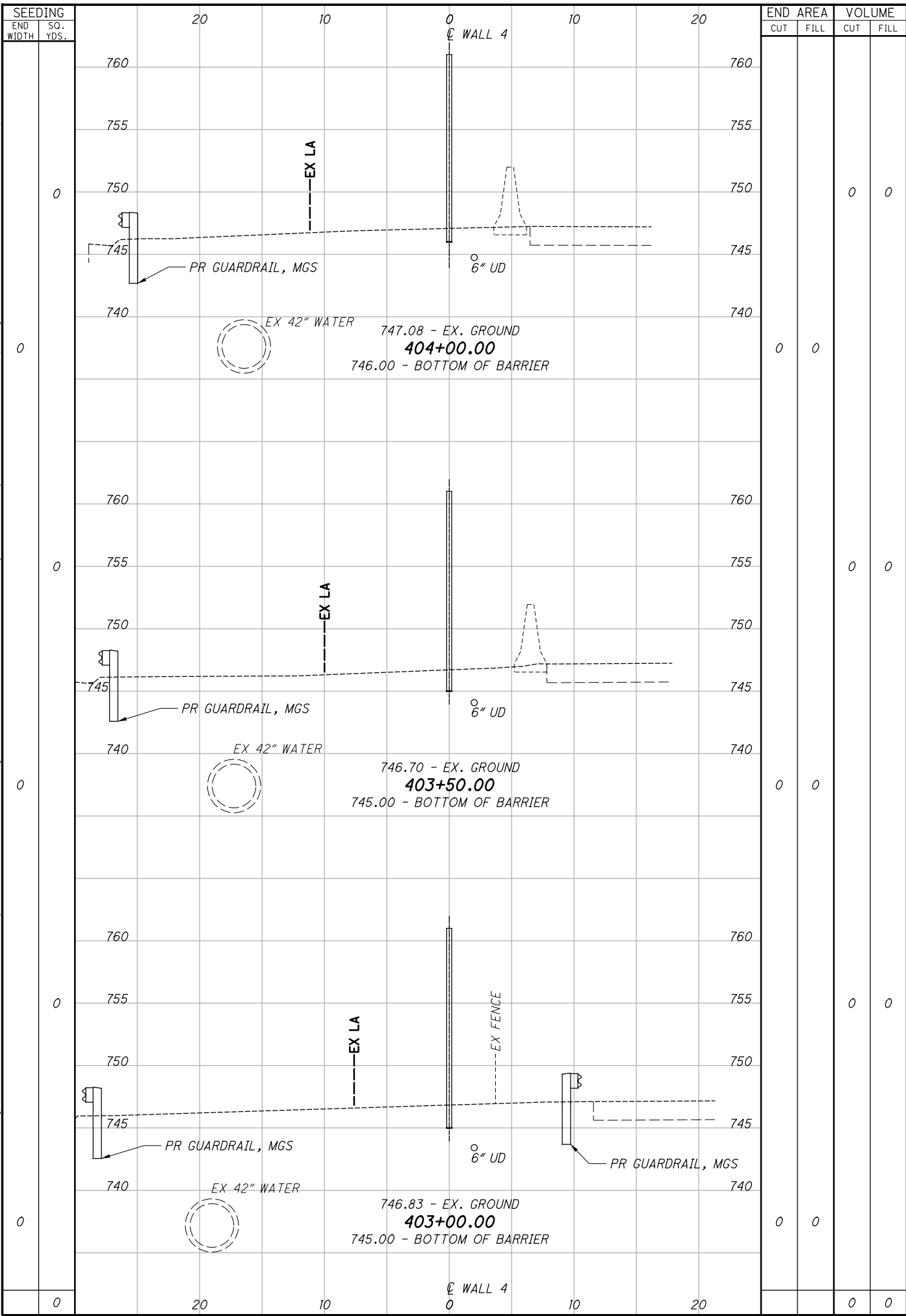


CROSS SECTIONS S.R. 315 WALL 4
STA. 400+00.00 TO STA. 402+50.00

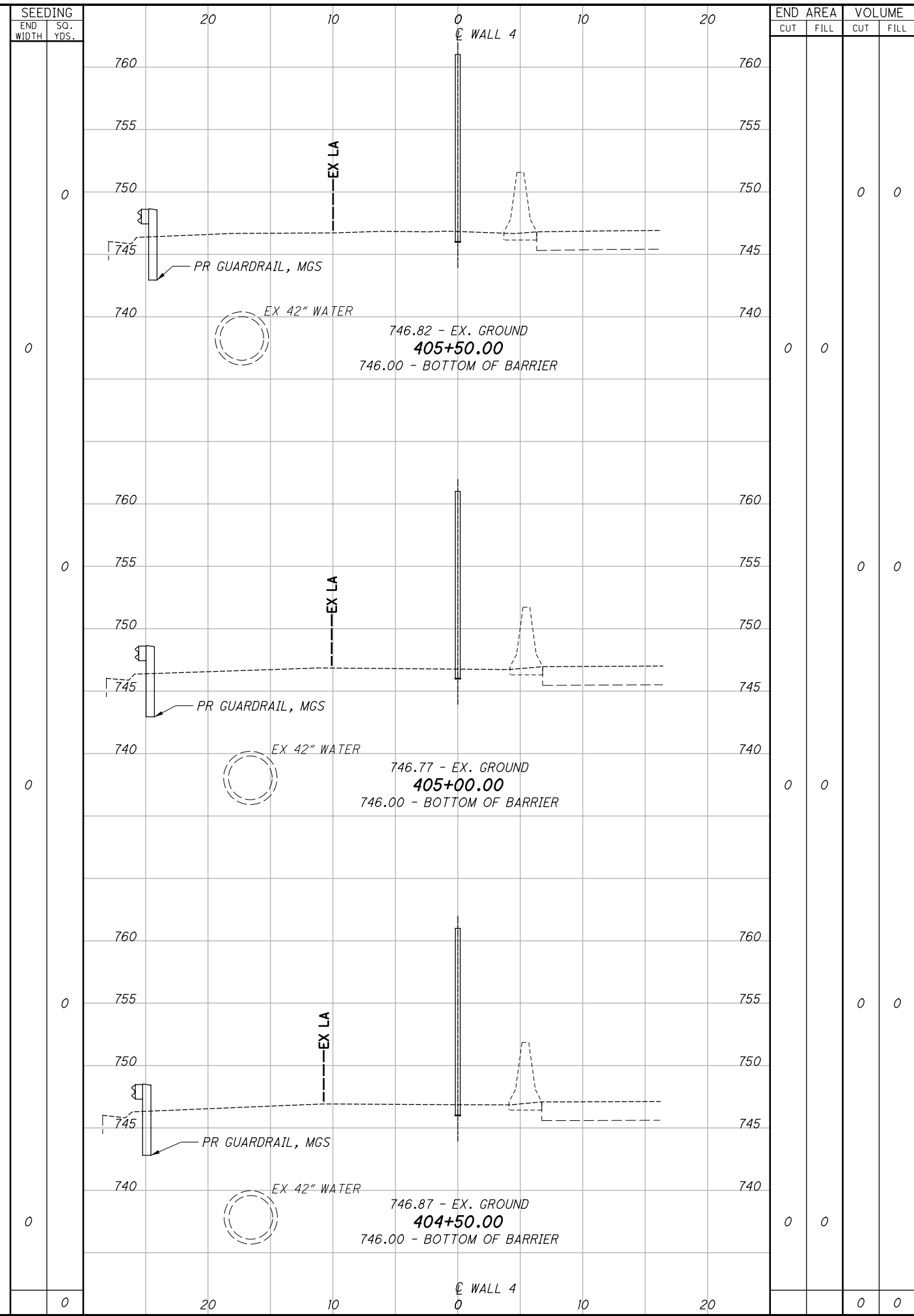
FRA-315-7.13
NOISE WALLS

39
80

J:\16-147_D6NoiseWalls\5.0 Design (Work) Phase\93446\Roadway\sheets\93446X5002.dgn 2021-01-04 5:18:49 PM jennifer.kelley ODOTcadd_PDF.pltcf ODOTV8i_Pen-ME.tbl IBI_Group



E-3498



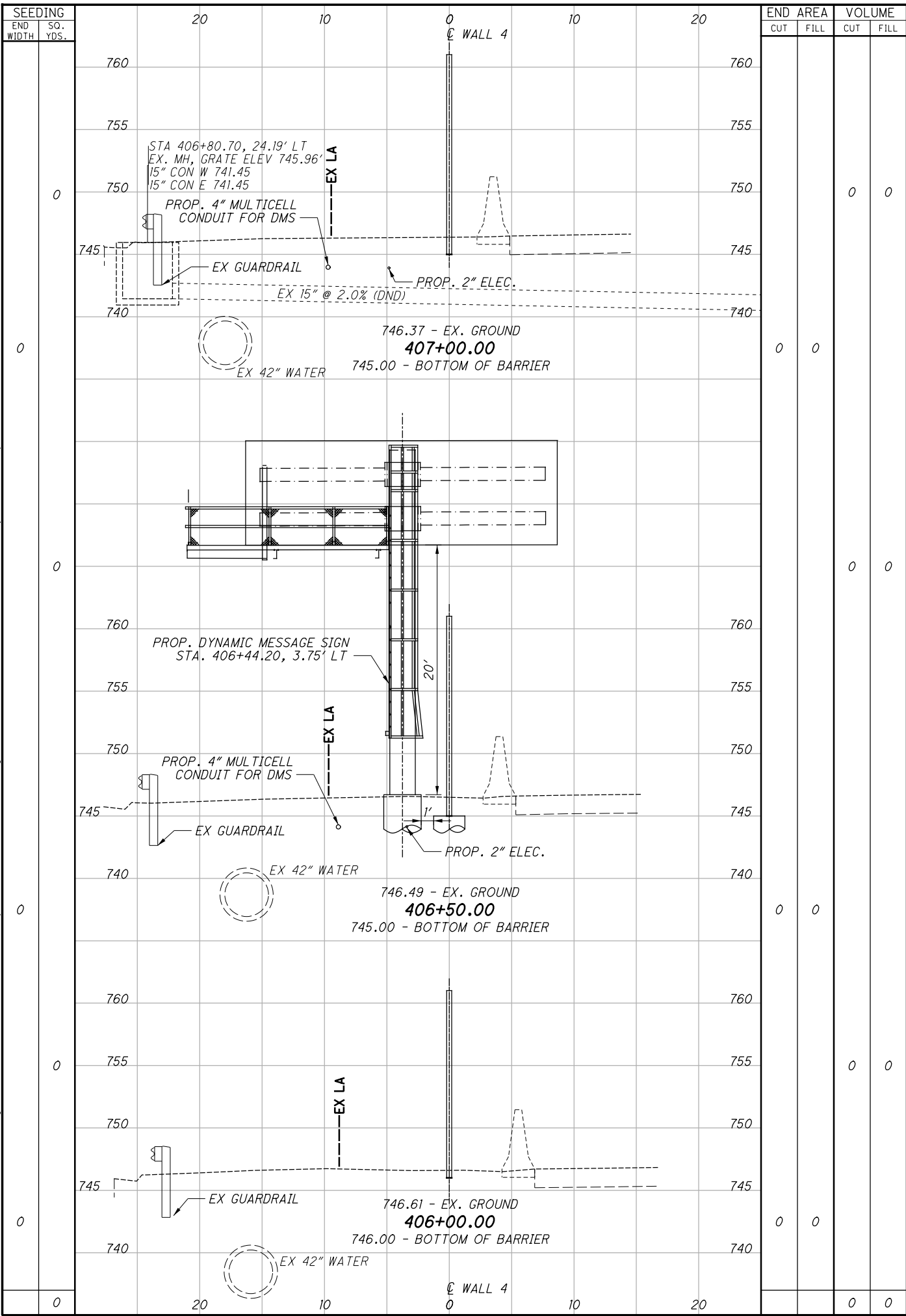
STATION	SEEDING		END AREA		VOLUME		CALCULATED	BMM	CHECKED	RMH
	END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL				
404+50.00	0	0	0	0	0	0				
405+00.00	0	0	0	0	0	0				

**CROSS SECTIONS S.R. 315 WALL 4
STA. 403+00.00 TO STA. 405+50.00**

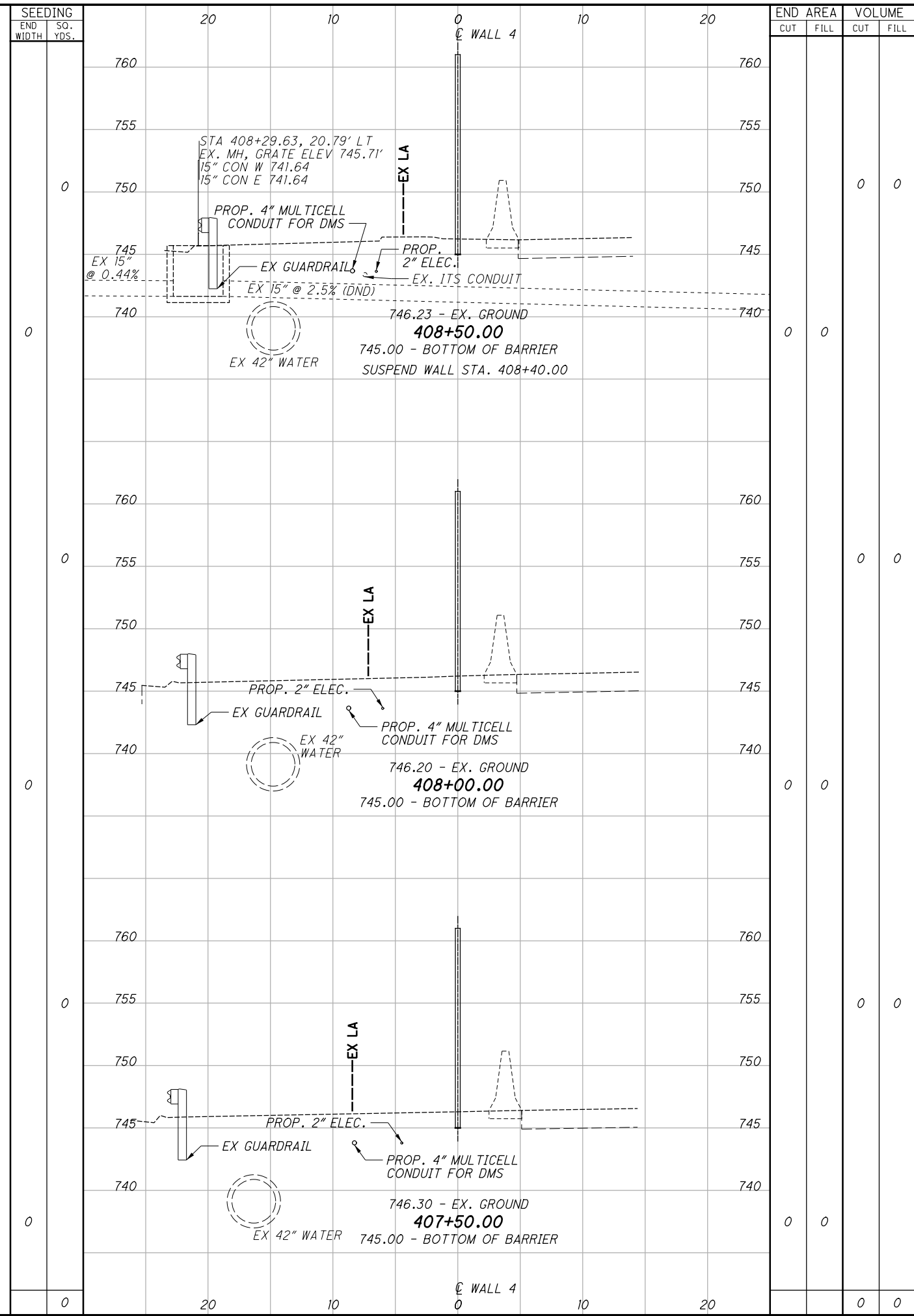
**FRA-315-7.13
NOISE WALLS**

40
80

J:\16-147_D6NoiseWalls\5.0 Design (Work) Phase\93446\roadway\sheet\93446X5002.dgn Sheet 2021-02-17 4:05:33 PM jennifer.kelley



E-3498



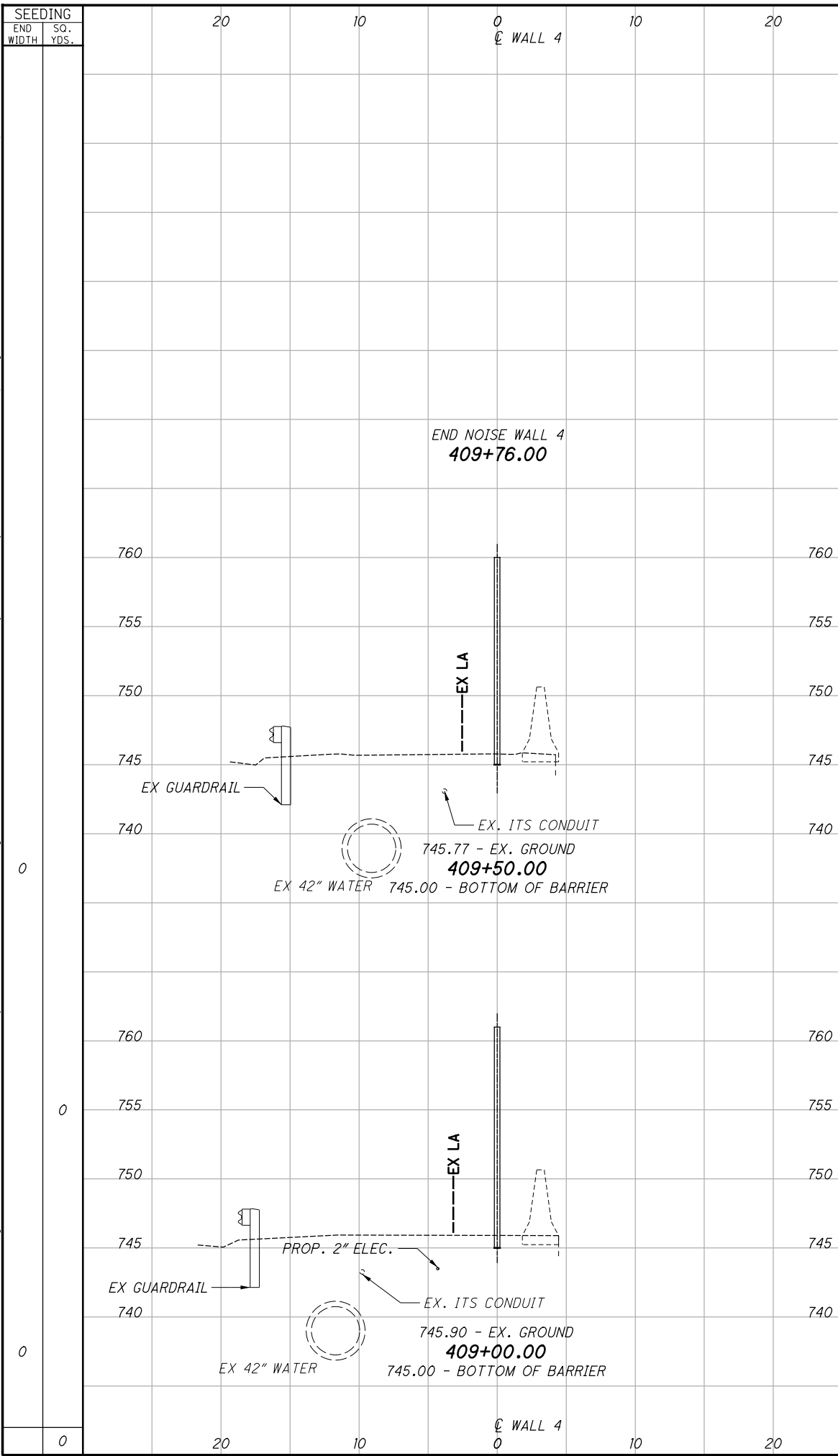
CROSS SECTIONS S.R. 315 WALL 4
STA. 406+00.00 TO STA. 408+50.00

FRA-315-7.13
NOISE WALLS

CALCULATED
BMM
CHECKED
RMH

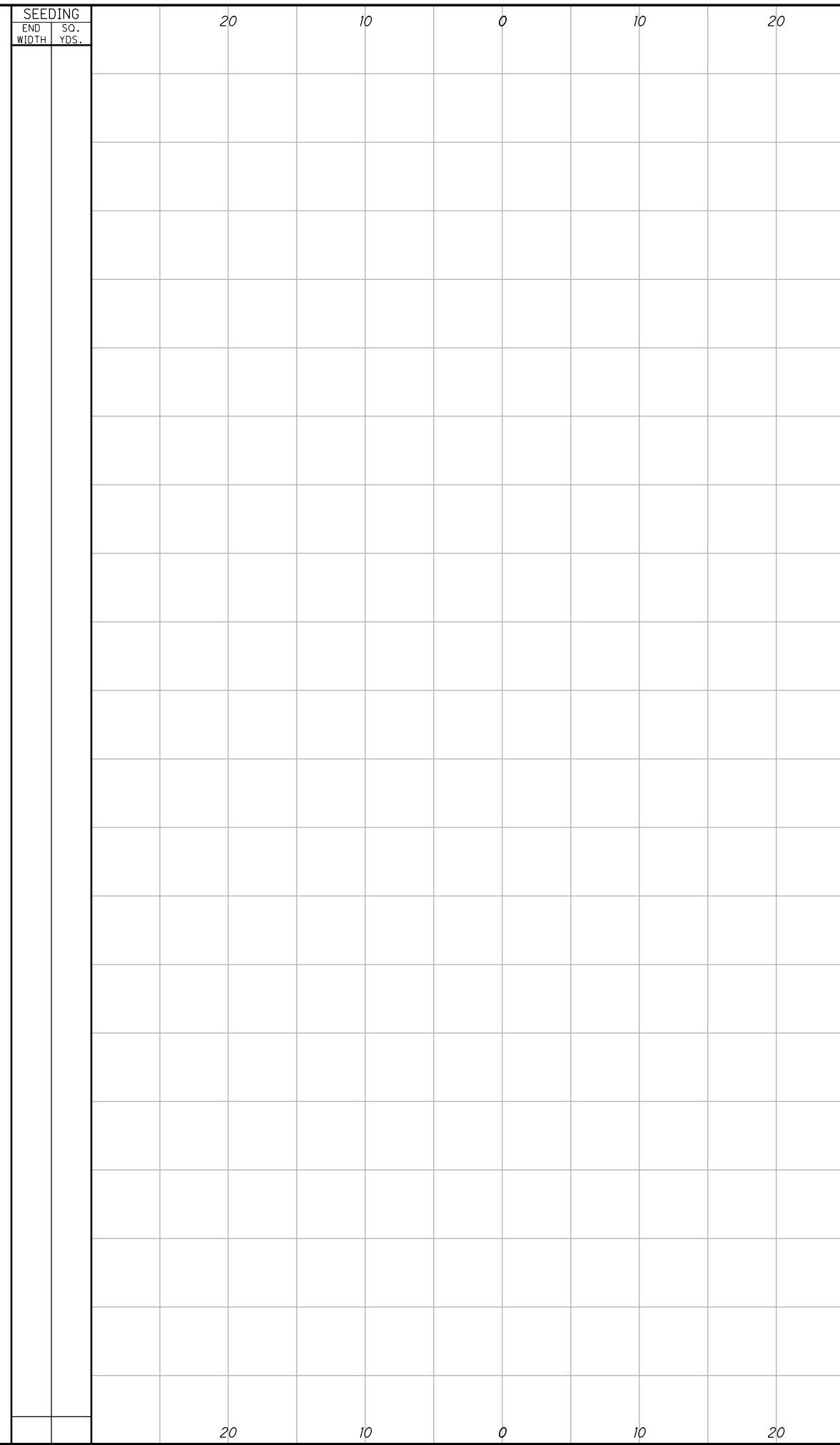
END SO. YDS.	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
760				
755				
750			0	0
745				
740			0	0
746.23 - EX. GROUND				
408+50.00				
745.00 - BOTTOM OF BARRIER				
SUSPEND WALL STA. 408+40.00				
760				
755			0	0
750				
745				
740			0	0
746.20 - EX. GROUND				
408+00.00				
745.00 - BOTTOM OF BARRIER				
760				
755			0	0
750				
745				
740			0	0
746.30 - EX. GROUND				
407+50.00				
745.00 - BOTTOM OF BARRIER				
760				
755			0	0
750				
745				
740			0	0
746.61 - EX. GROUND				
406+00.00				
746.00 - BOTTOM OF BARRIER				
760				
755			0	0
750				
745				
740			0	0
746.37 - EX. GROUND				
407+00.00				
745.00 - BOTTOM OF BARRIER				

J:\16-147_D6NoiseWalls\5.0 Design (Work) Phase\93446\Roadway\sheets\93446X5002.dgn 2021-01-04 5:18:50 PM jennifer.kelley" ODOTcadd_PDF.pltcf ODOTV8i_Pen-ME.tbl IBI_Group



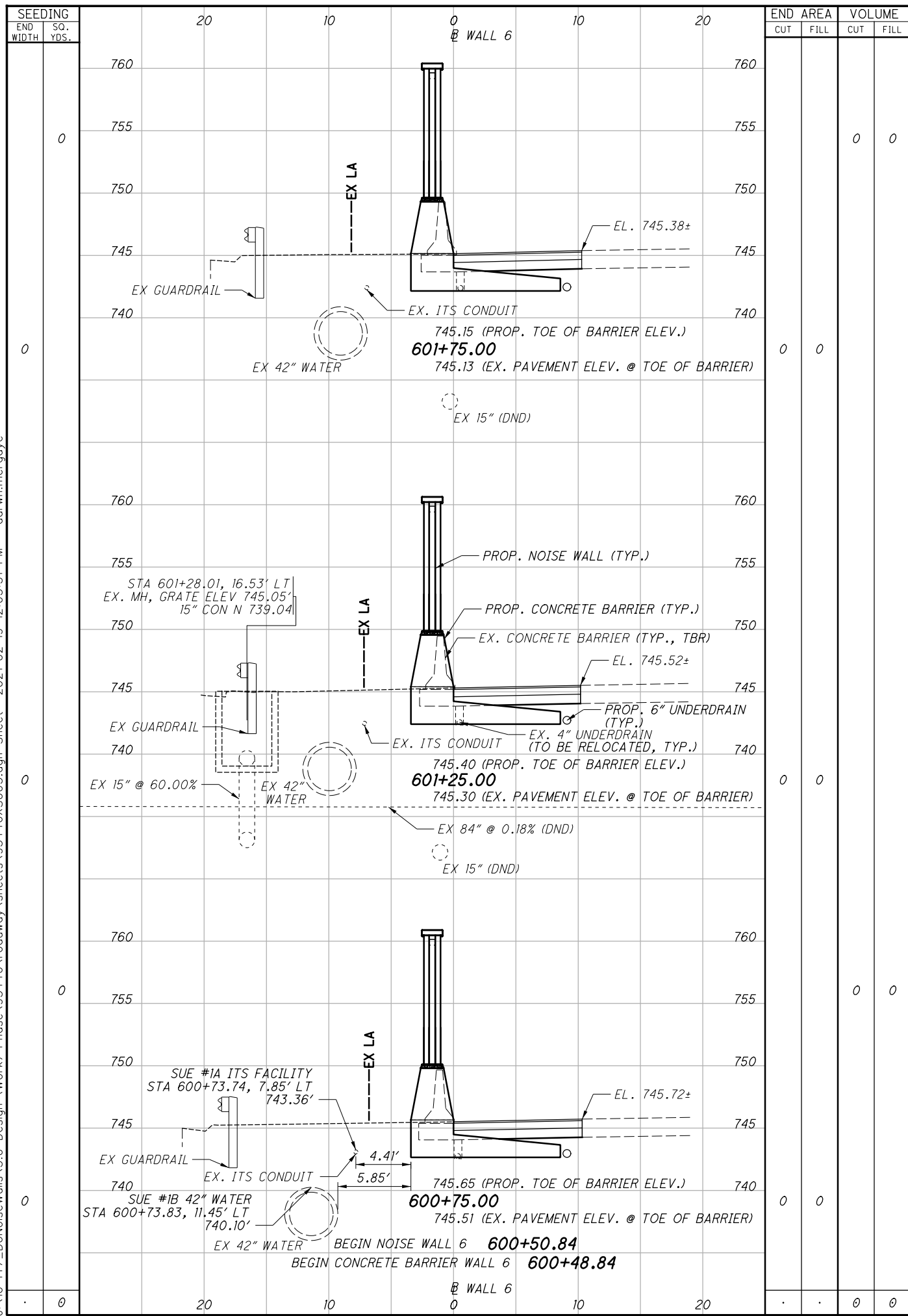
SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
0	0	0	0	0	0
20	10	0	0	0	0
0	0	0	0	0	0
20	10	0	0	0	0
0	0	0	0	0	0

E-3498

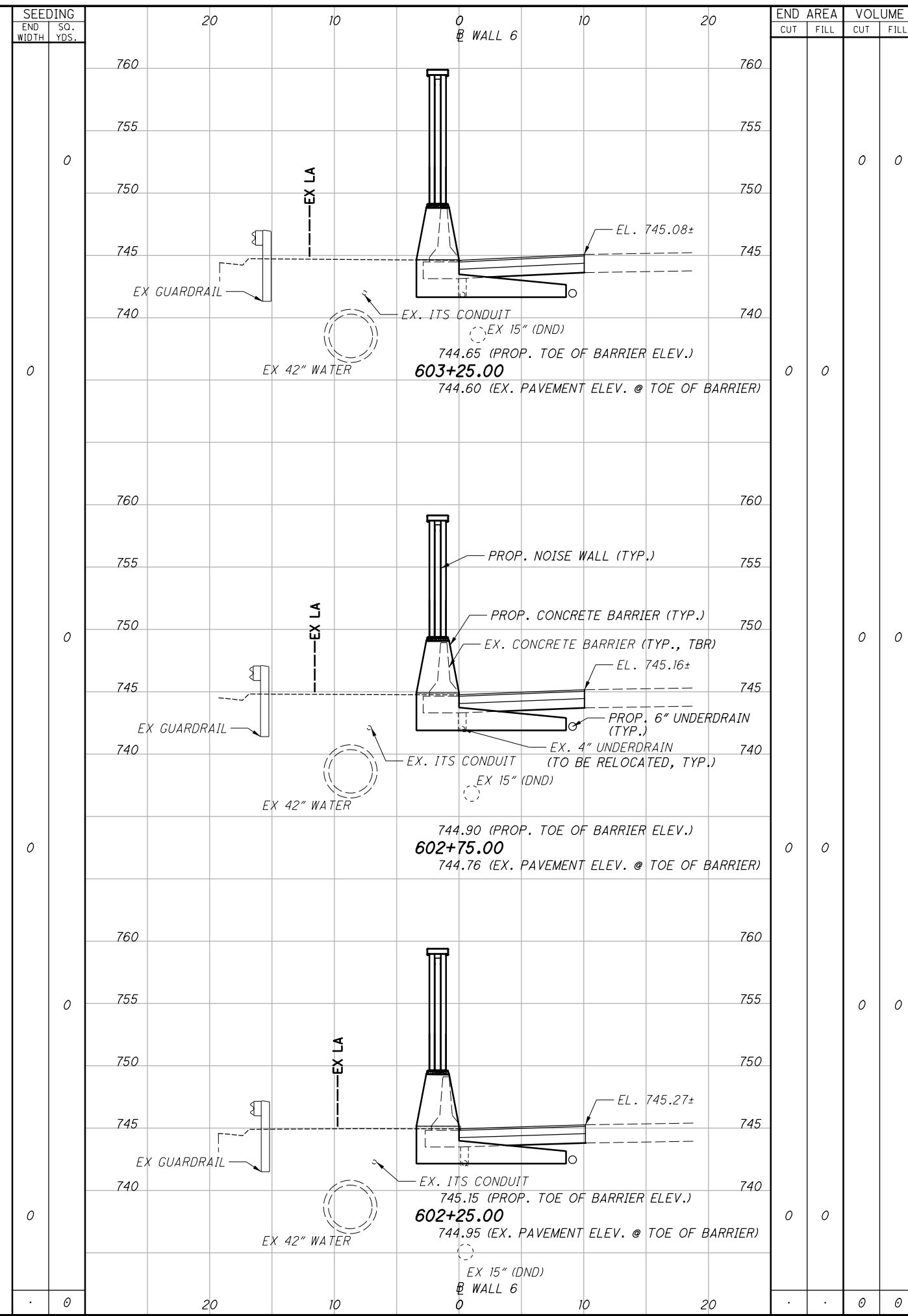


SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
0	0	0	0	0	0
20	10	0	0	0	0
0	0	0	0	0	0
20	10	0	0	0	0
0	0	0	0	0	0

FRA-315-7.13
NOISE WALLS
CROSS SECTIONS S.R. 315 WALL 4
STA. 409+00.00 TO STA. 409+76.00



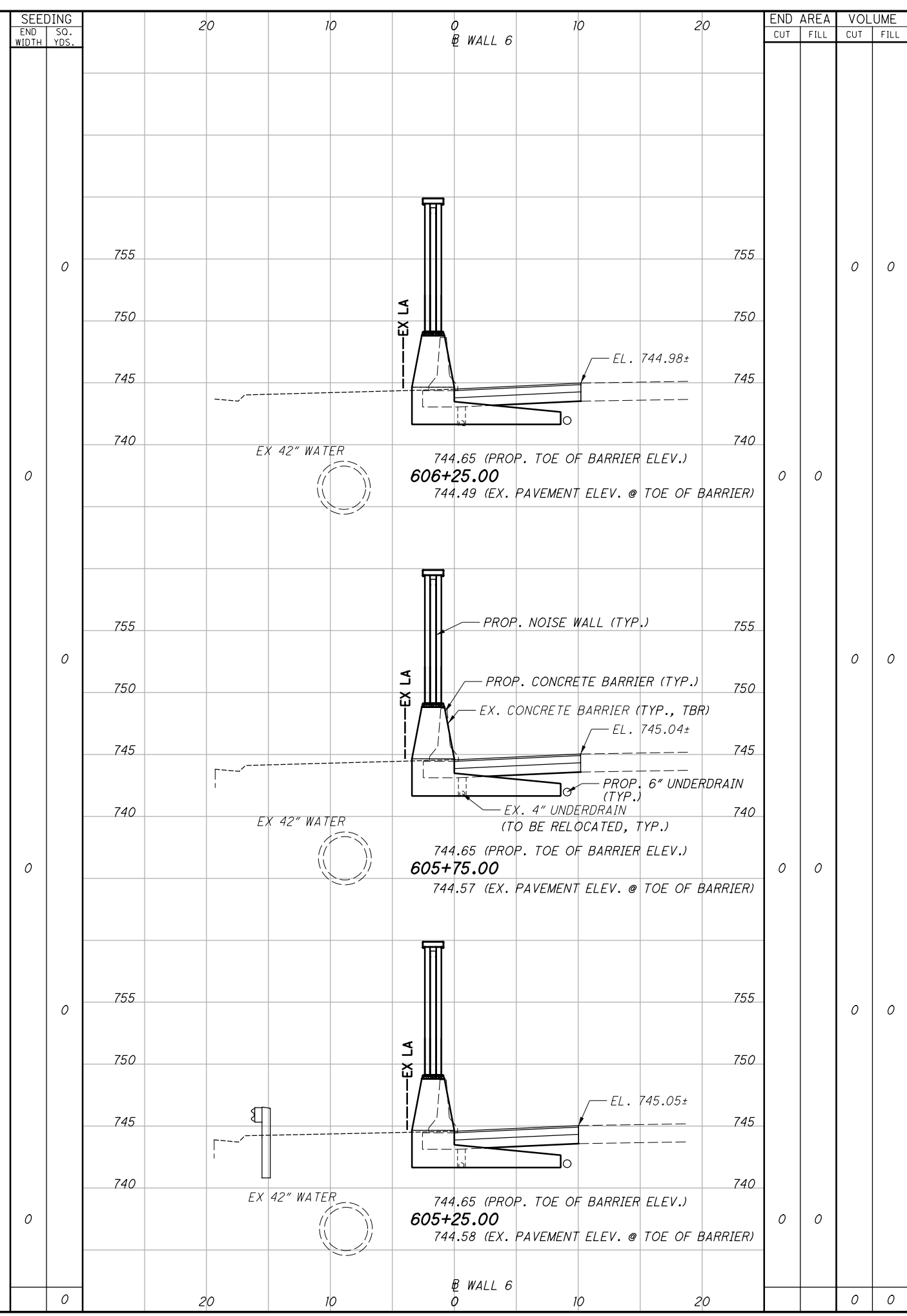
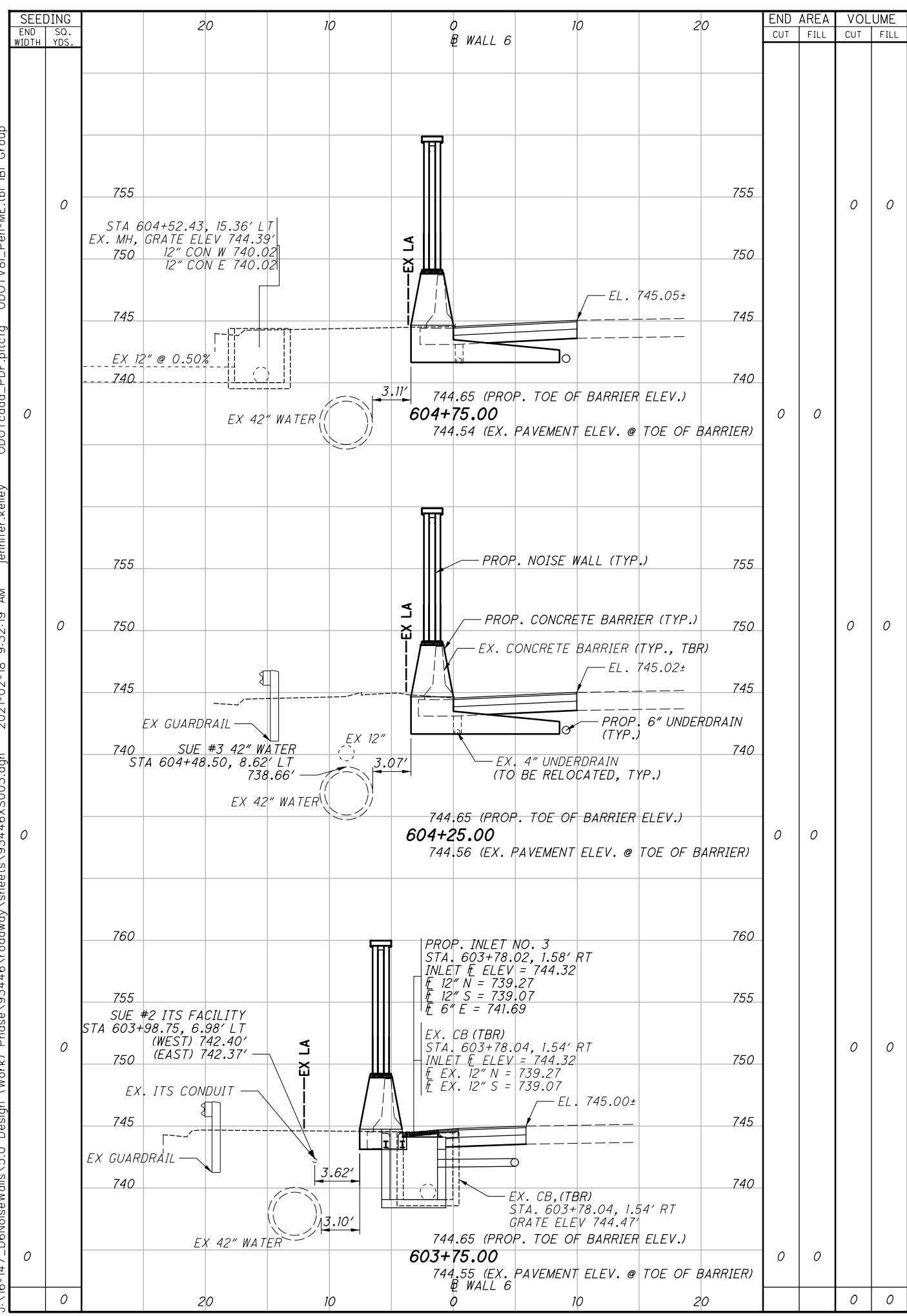
E-3498



CROSS SECTIONS S.R. 315 WALL 6
STA. 600+75.00 TO STA. 603+25.00

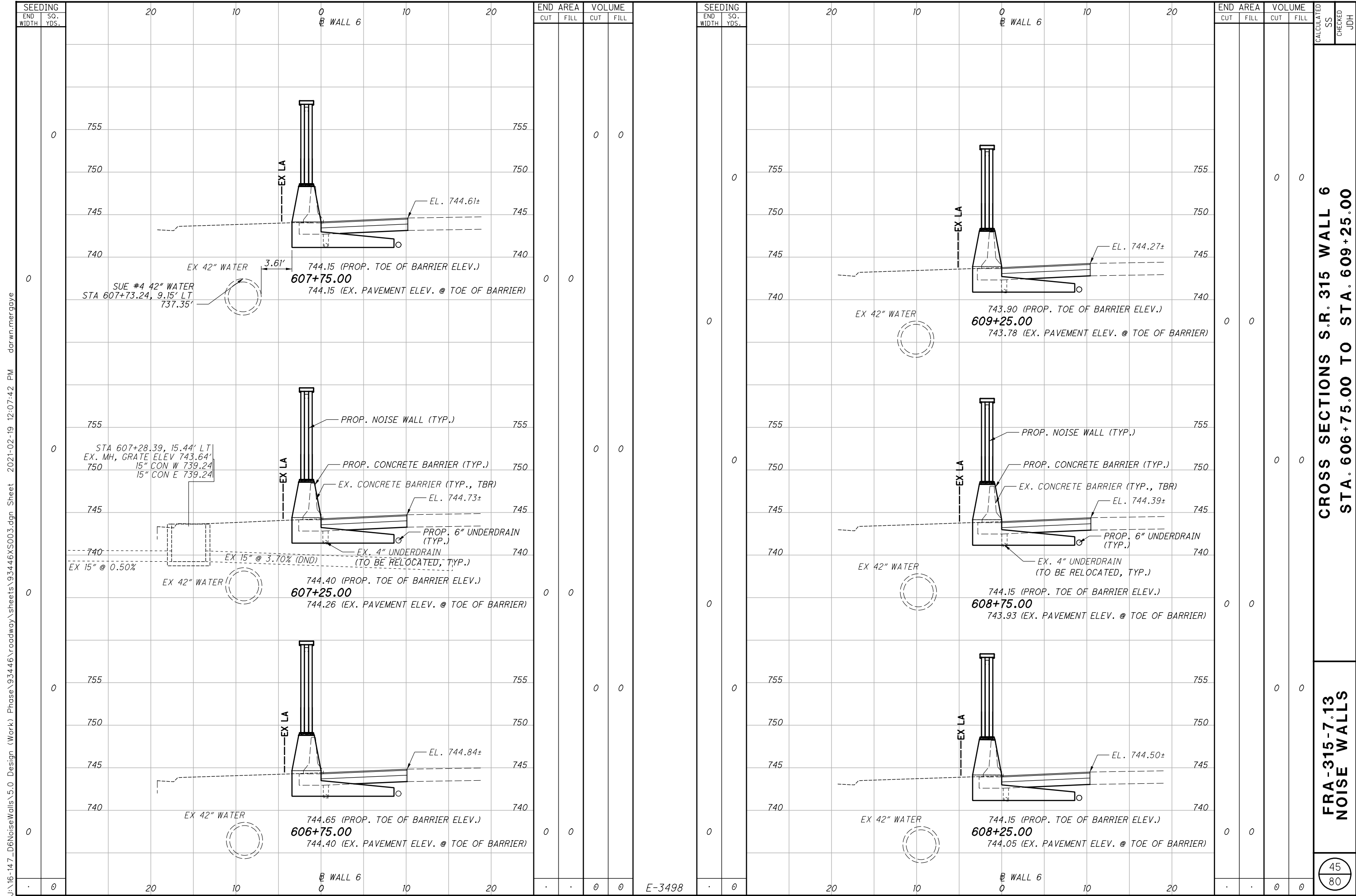
FRA-315-7.13
NOISE WALLS

J:\16-147_D6NoiseWalls\5.0 Design (Work) Phase\93446\Roadway\Sheets\93446X500.3.dgn 2021-02-18 9:32:19 AM jennifer.kelley ODOT\cadd_PDF.plt cfbg ODOTV8i_Pen-ME.tbl IBI_Group



CROSS SECTIONS S.R. 315 WALL 6
STA. 603+75.00 TO STA. 606+25.00

FRA-315-7.13
NOISE WALLS



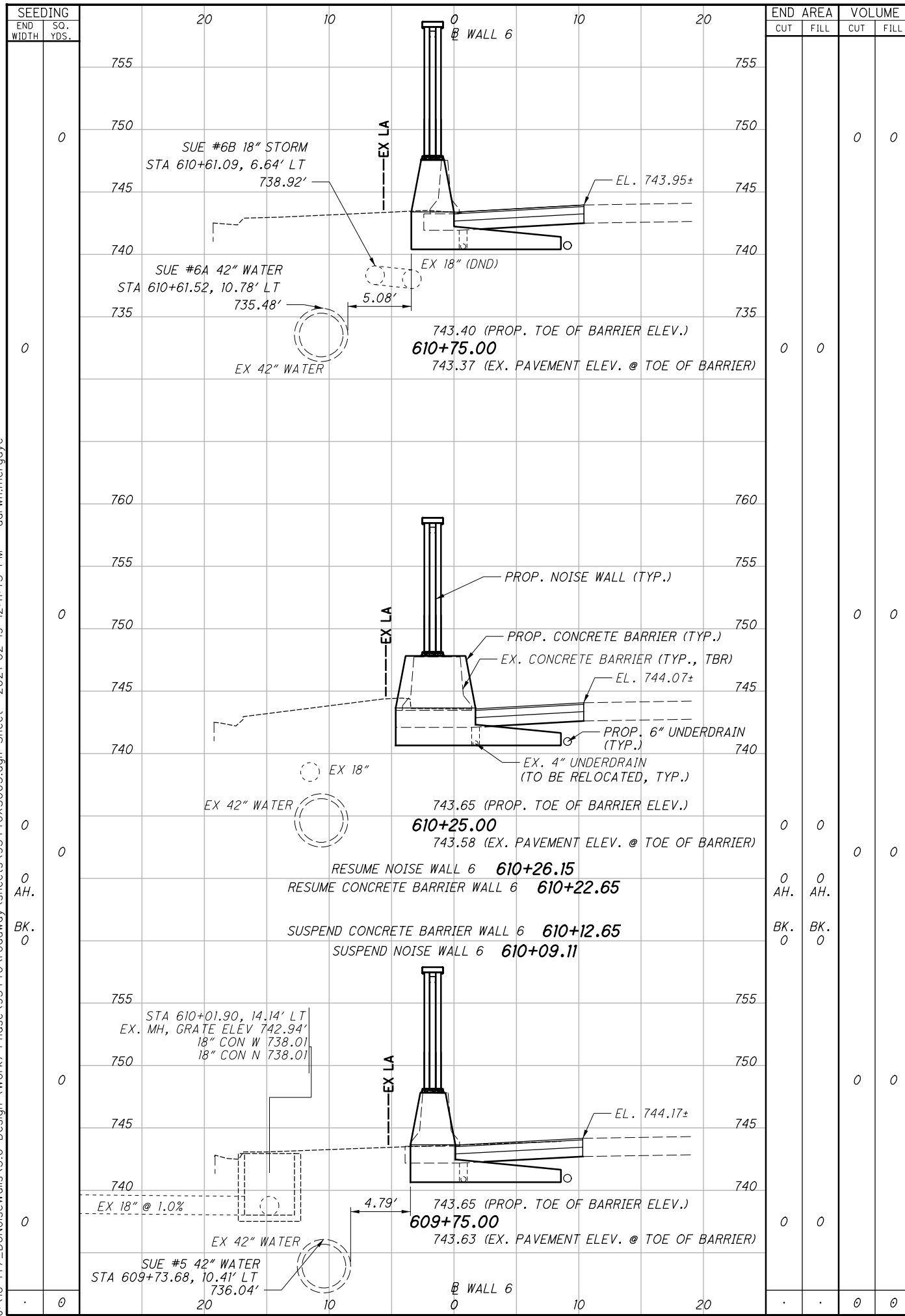
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**CROSS SECTIONS S.R. 315 WALL 6
 STA. 606+75.00 TO STA. 609+25.00**

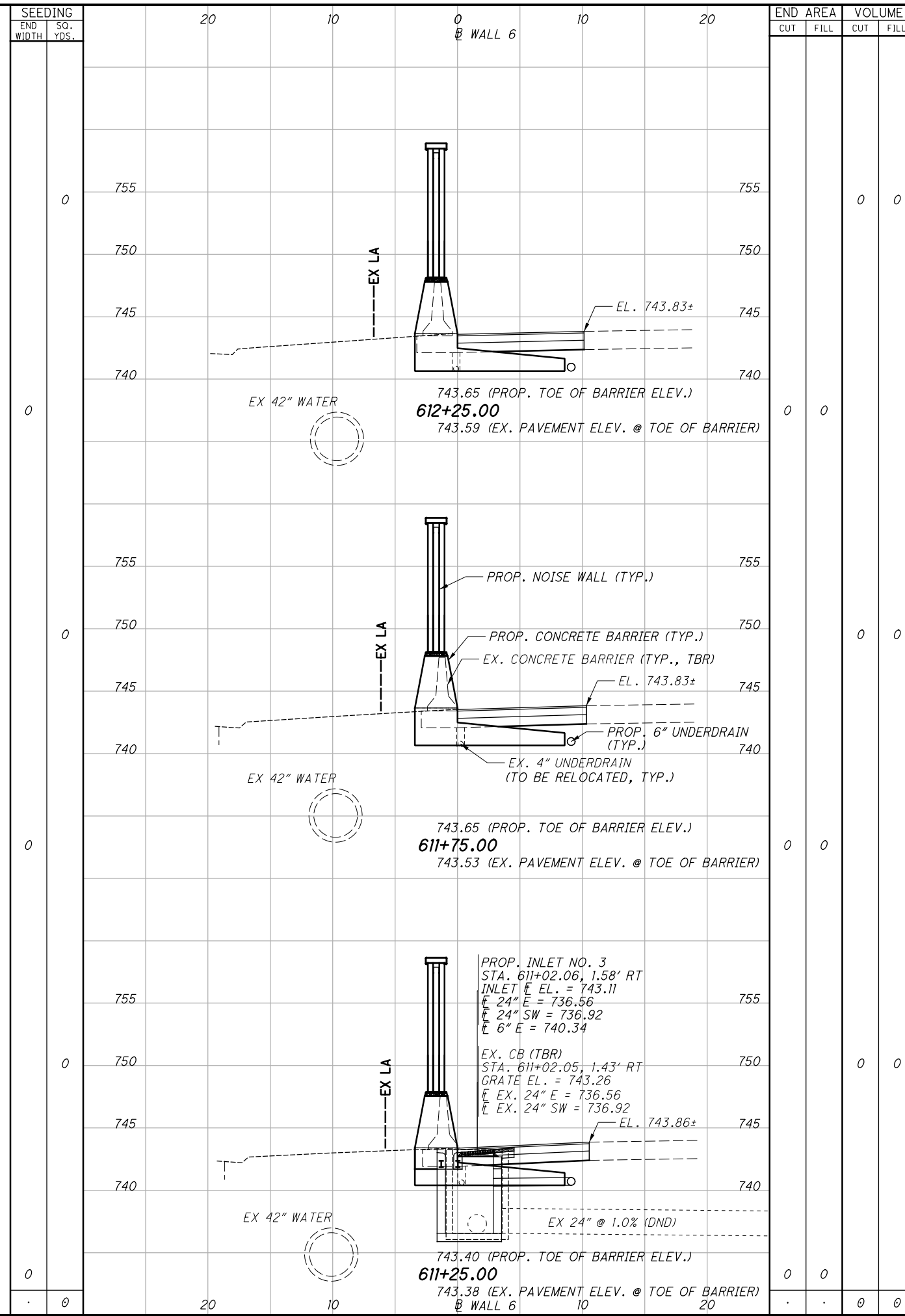
**FRA-315-7.13
 NOISE WALLS**

45
80

J:\16-147_D6NoiseWalls\5.0 Design (Work)\Phase\93446\roadway\sheets\93446X500.3.dgn Sheet 2021-02-19 12:11:45 PM darwn.mergaye



SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
0	755	0	0	0	0
0	750	0	0	0	0
0	745	0	0	0	0
0	740	0	0	0	0
0	735	0	0	0	0
0	730	0	0	0	0
0	725	0	0	0	0
0	720	0	0	0	0
0	715	0	0	0	0
0	710	0	0	0	0
0	705	0	0	0	0
0	700	0	0	0	0
0	695	0	0	0	0
0	690	0	0	0	0
0	685	0	0	0	0
0	680	0	0	0	0
0	675	0	0	0	0
0	670	0	0	0	0
0	665	0	0	0	0
0	660	0	0	0	0
0	655	0	0	0	0
0	650	0	0	0	0
0	645	0	0	0	0
0	640	0	0	0	0
0	635	0	0	0	0
0	630	0	0	0	0
0	625	0	0	0	0
0	620	0	0	0	0
0	615	0	0	0	0
0	610	0	0	0	0



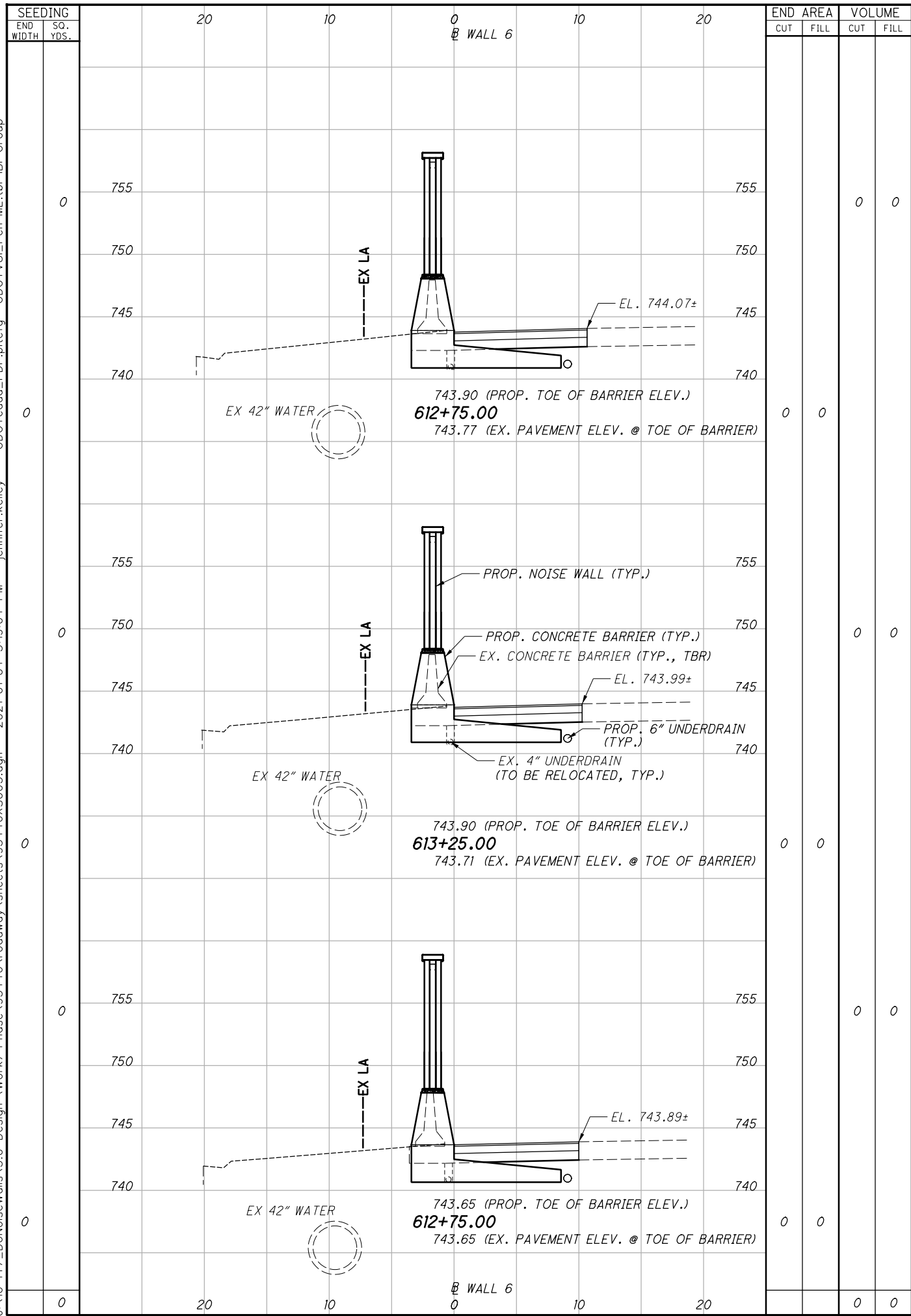
SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
0	755	0	0	0	0
0	750	0	0	0	0
0	745	0	0	0	0
0	740	0	0	0	0
0	735	0	0	0	0
0	730	0	0	0	0
0	725	0	0	0	0
0	720	0	0	0	0
0	715	0	0	0	0
0	710	0	0	0	0
0	705	0	0	0	0
0	700	0	0	0	0
0	695	0	0	0	0
0	690	0	0	0	0
0	685	0	0	0	0
0	680	0	0	0	0
0	675	0	0	0	0
0	670	0	0	0	0
0	665	0	0	0	0
0	660	0	0	0	0
0	655	0	0	0	0
0	650	0	0	0	0
0	645	0	0	0	0
0	640	0	0	0	0
0	635	0	0	0	0
0	630	0	0	0	0
0	625	0	0	0	0
0	620	0	0	0	0
0	615	0	0	0	0
0	610	0	0	0	0

CROSS SECTIONS S.R. 315 WALL 6
STA. 609+75.00 TO STA. 612+25.00

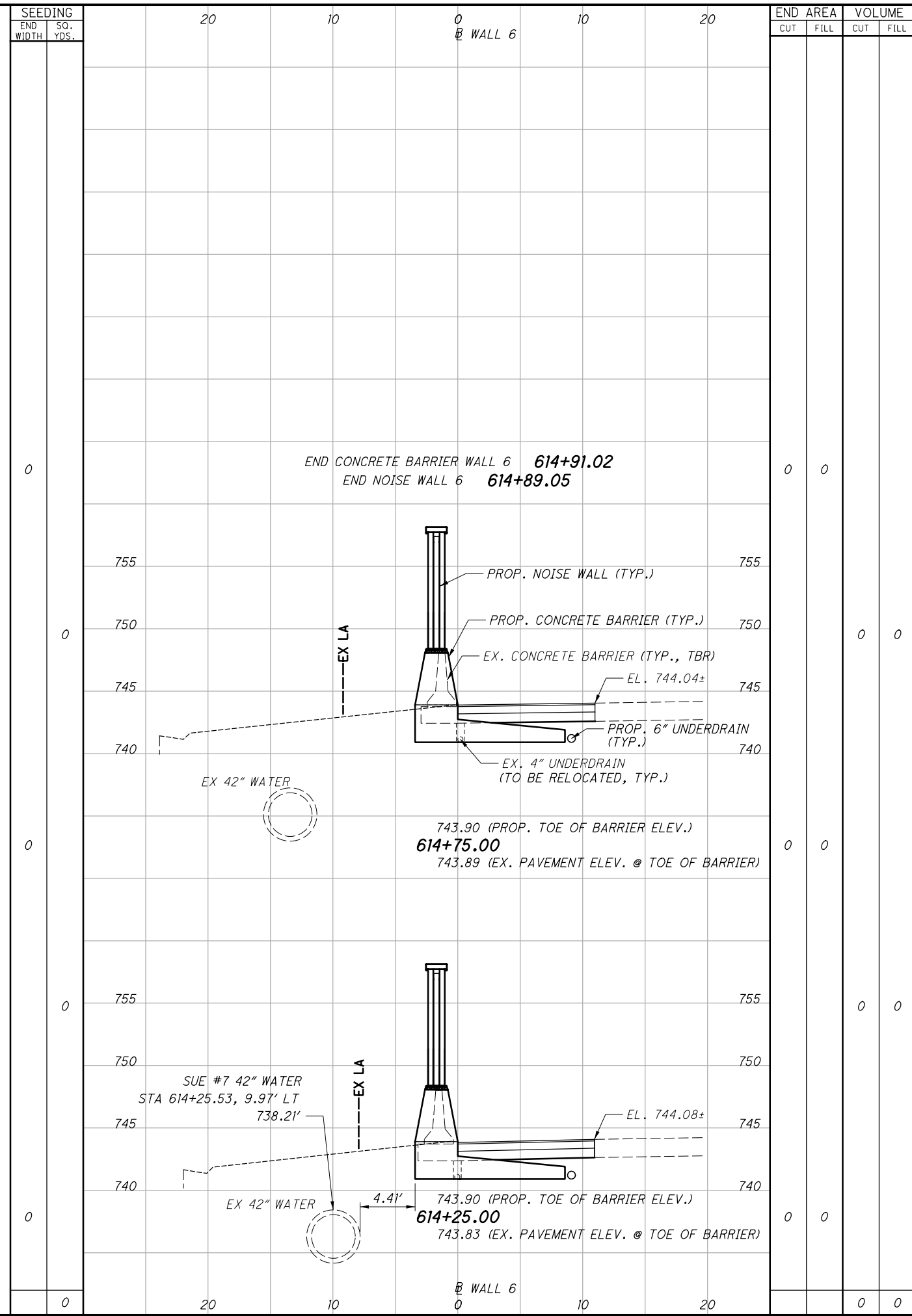
FRA-315-7.13
NOISE WALLS

CALCULATED SS
CHECKED JDH
46/80

J:\16-147_D6NoiseWalls\5.0 Design (Work) Phase\93446\Roadway\Sheets\93446X5003.dgn 2021-01-04 5:19:04 PM jennifer.kelley ODOT\cadd_PDF.pltcf ODOT\8i_Pen-ME.tbl IBI_Group



E-3498

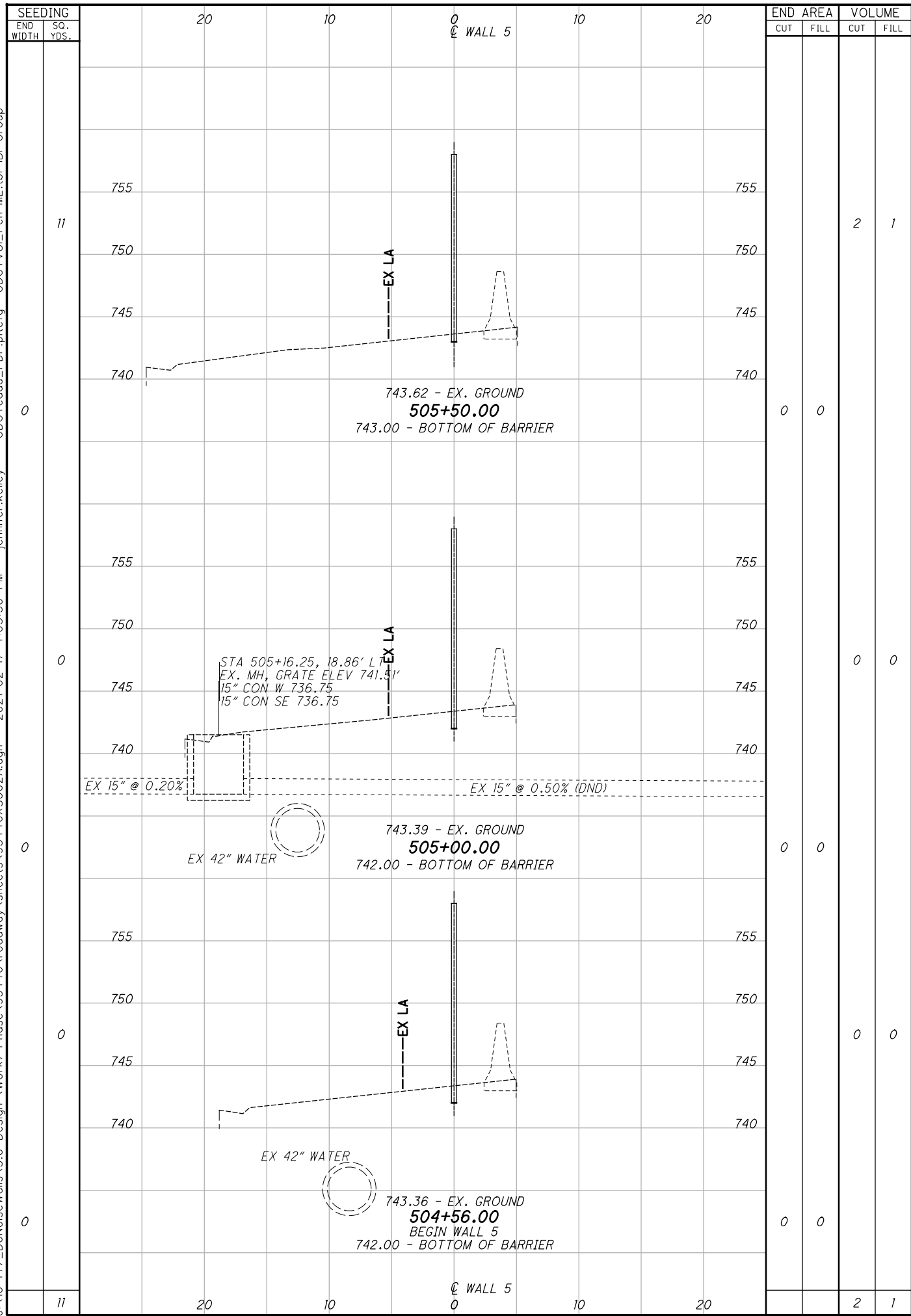


CROSS SECTIONS S.R. 315 WALL 6
STA. 612+75.00 TO STA. 614+75.00

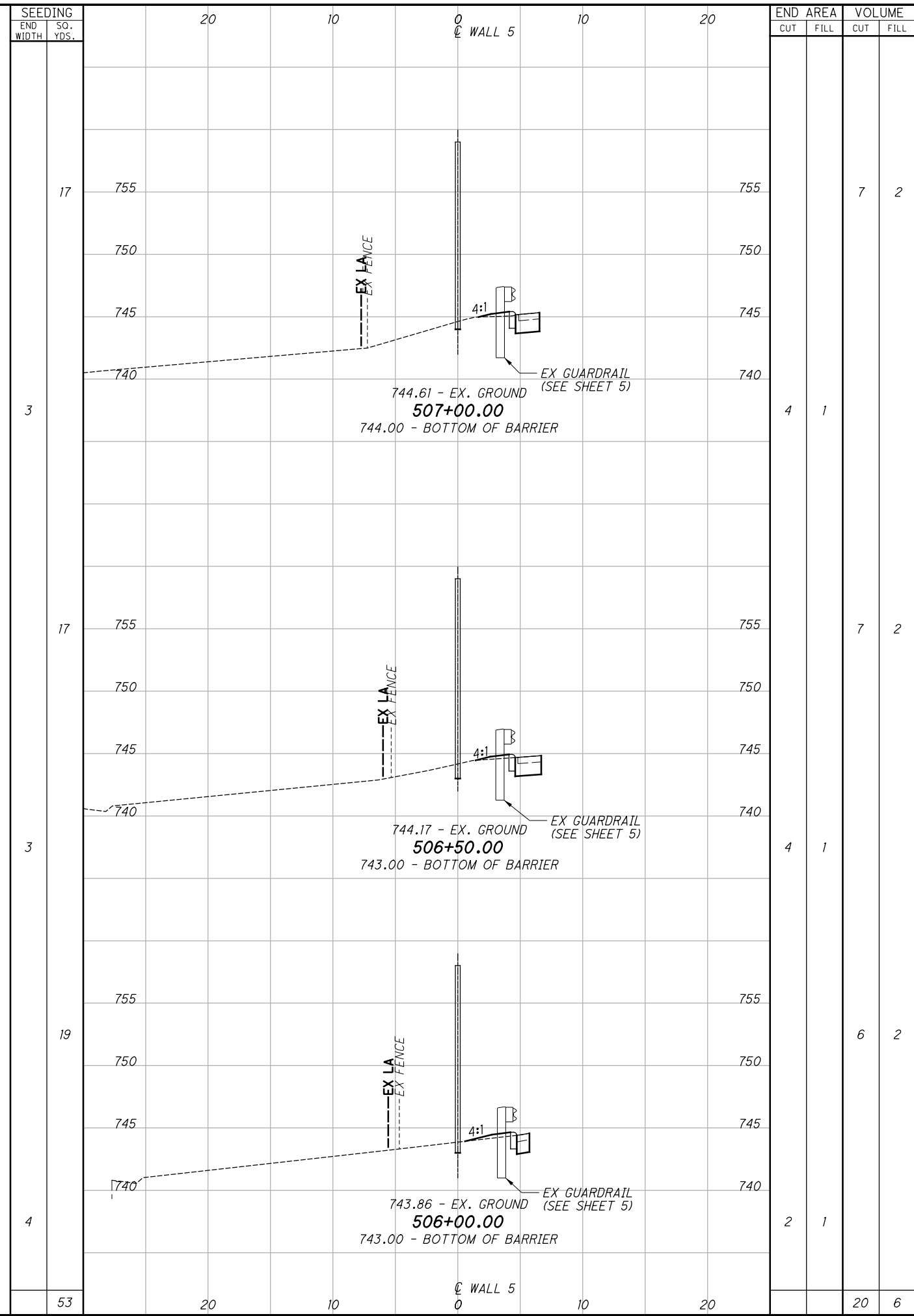
FRA-315-7.13
NOISE WALLS

47
80

J:\16-147_D6NoiseWalls\5.0 Design (Work) Phase\93446\Roadway\Sheets\93446X5002A.dgn 2021-02-17 4:05:50 PM jennifer.kelley" ODOT\cadd_PDF.plt cfg ODOTV8i_Pen-ME.tbl IBI_Group



E-3498

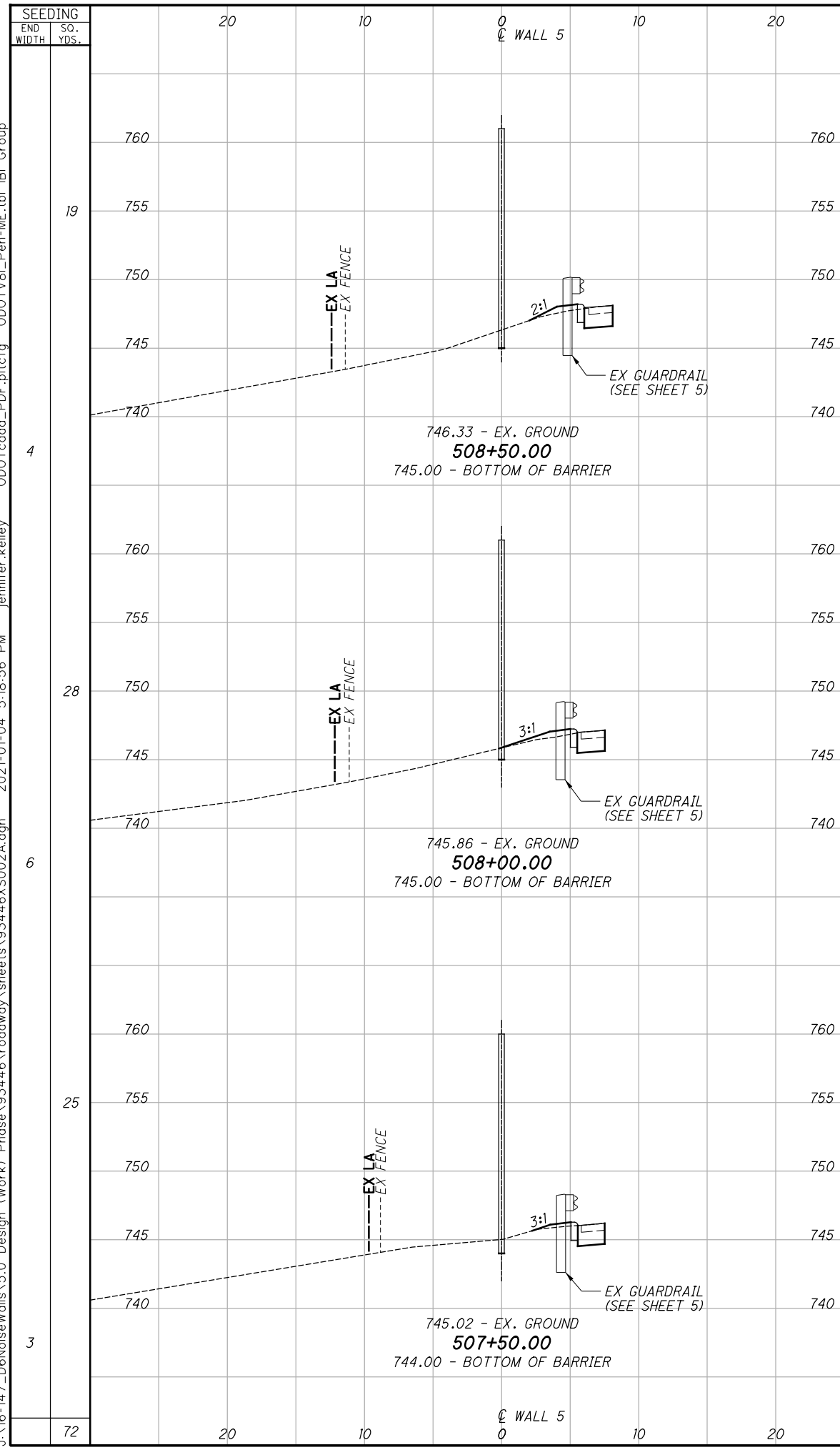


CROSS SECTIONS S.R. 315 WALL 5
STA. 504+56.00 TO STA. 507+00.00

FRA-315-7.13
NOISE WALLS

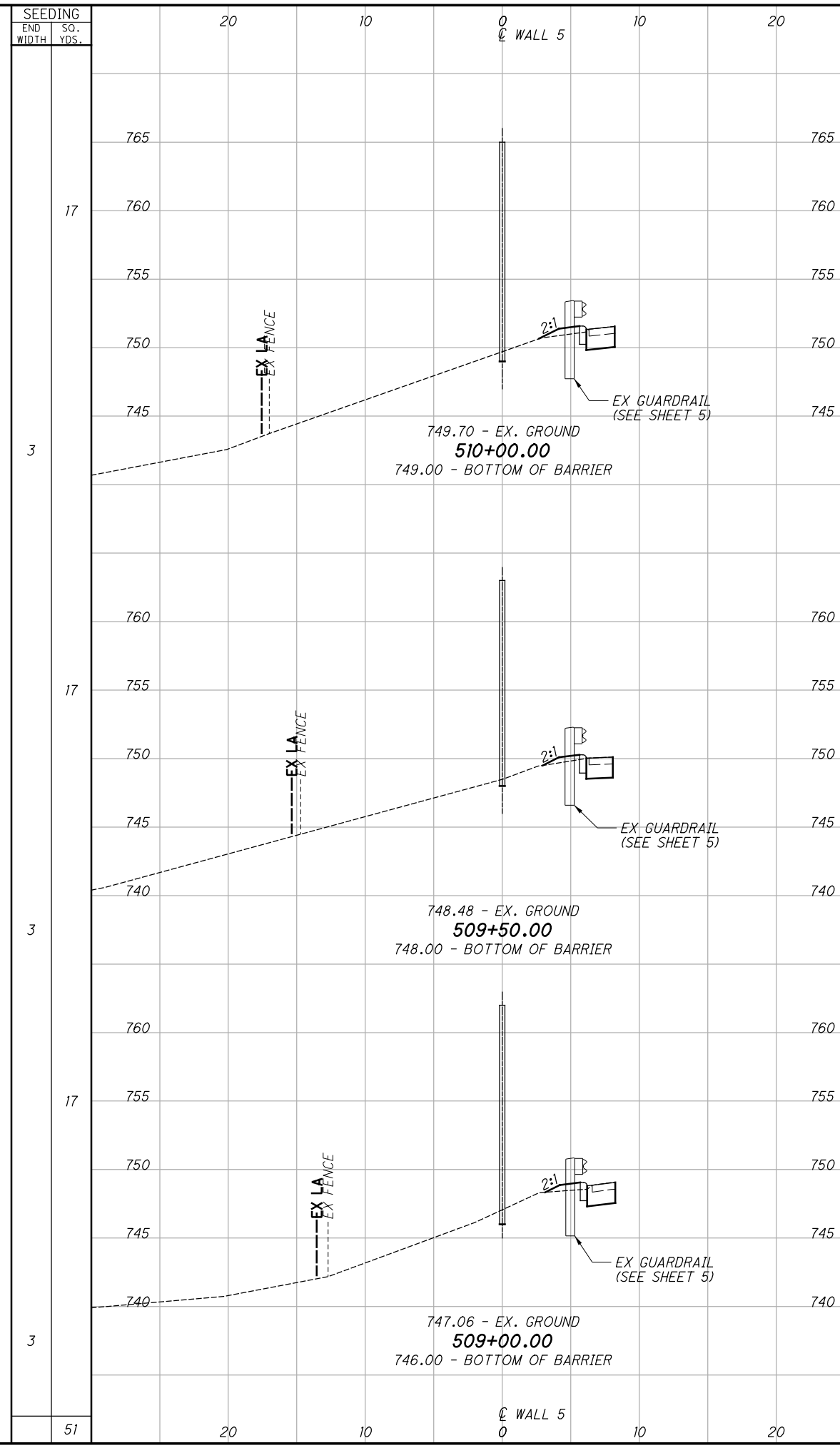
48
80

J:\16-147_D6NoiseWalls\5.0 Design (Work) Phase\93446\Roadway\sheets\93446X5002A.dgn 2021-01-04 5:18:56 PM jennifer.keiley" ODOTcadd_PDF.pltcfgr ODOTV81_Pen-ME.tbl IBI Group



END AREA		VOLUME	
CUT	FILL	CUT	FILL
4	1	7	2
4	1	7	2
4	1	7	2
4	1	21	6

E-3498



END AREA		VOLUME	
CUT	FILL	CUT	FILL
4	1	7	2
4	1	7	2
4	1	7	2
4	1	21	6

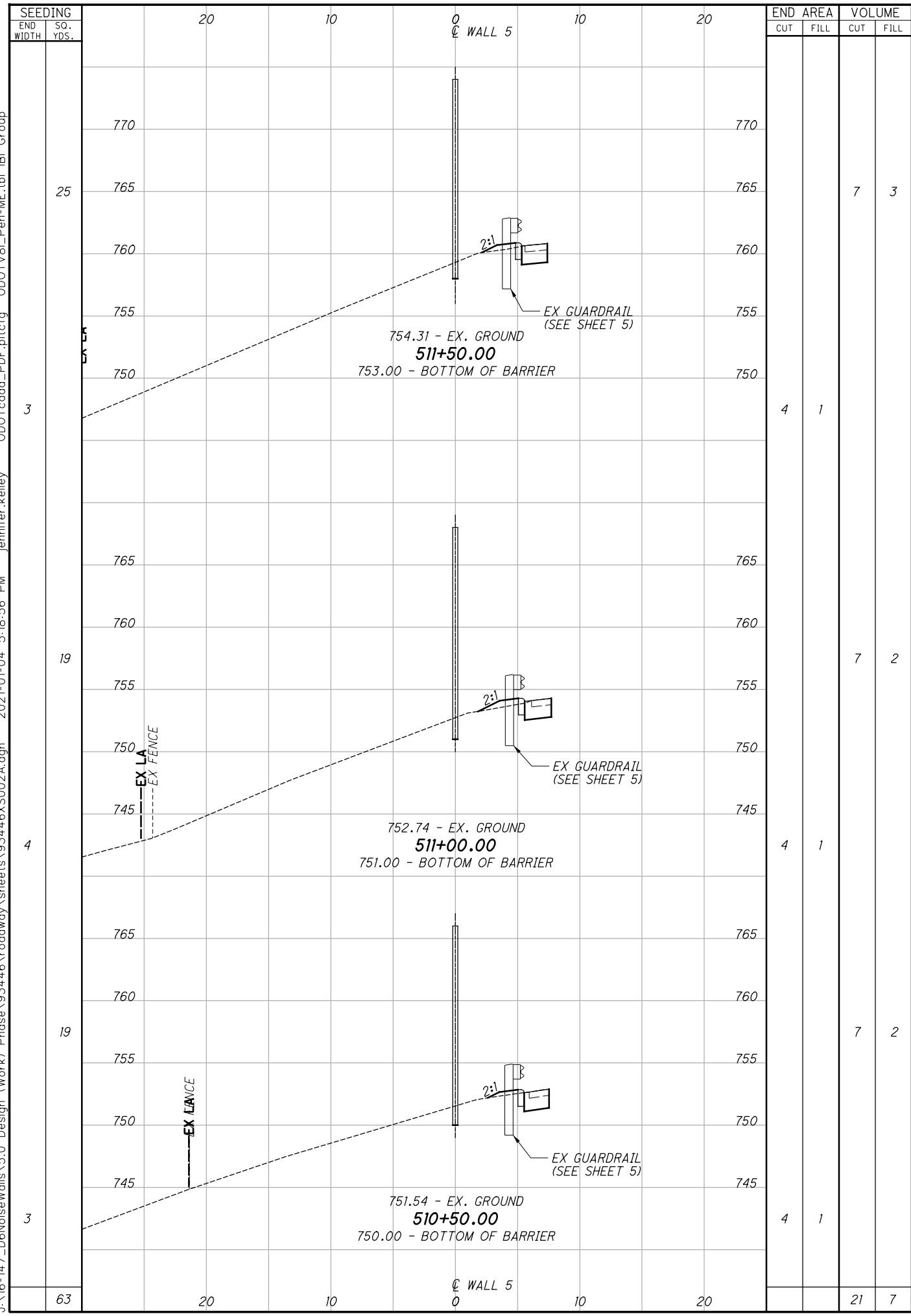
CALCULATED
BMM
CHECKED
RMH

**CROSS SECTIONS S.R. 315 WALL 5
STA. 507+50.00 TO STA. 510+00.00**

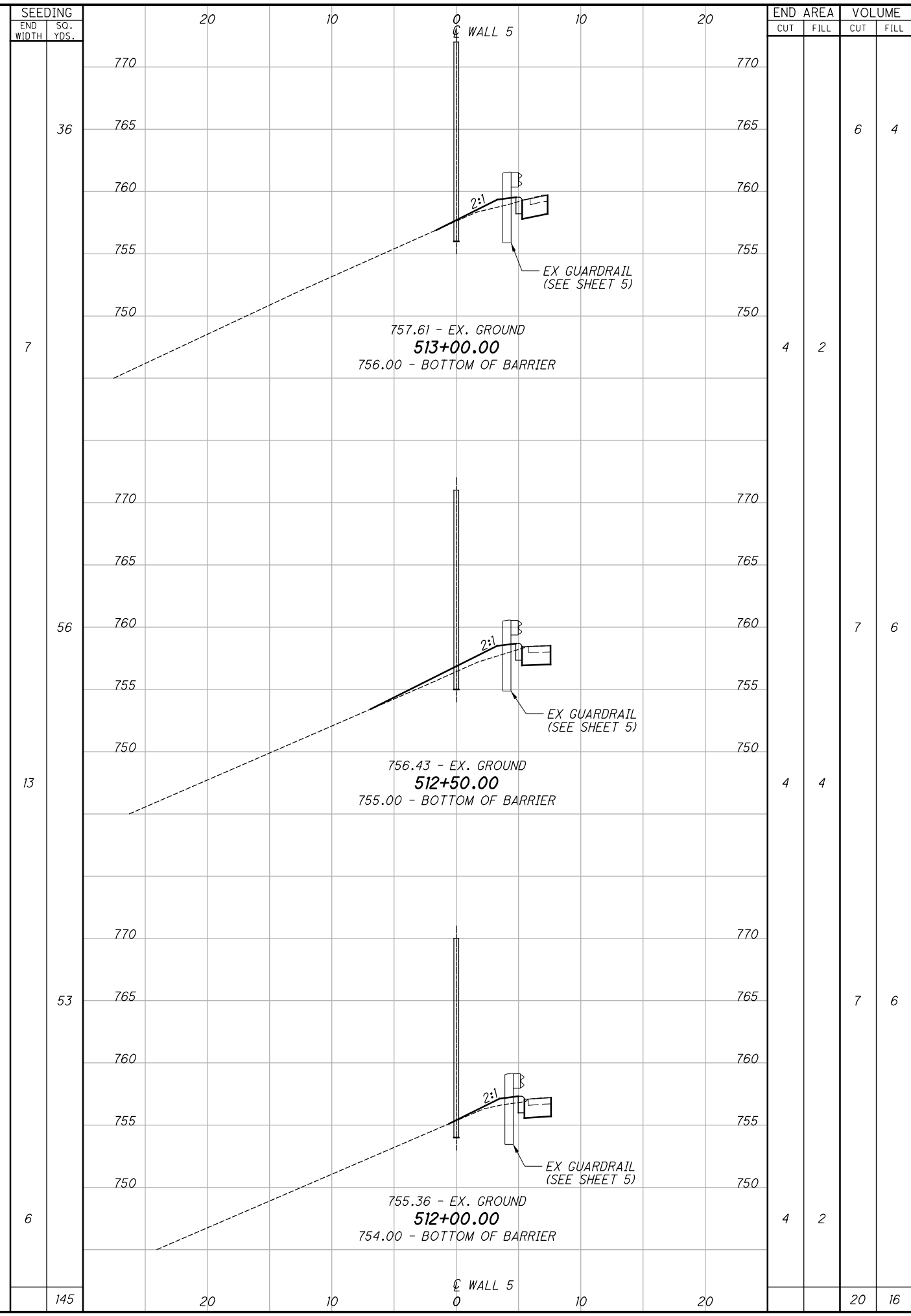
**FRA-315-7.13
NOISE WALLS**

49
80

J:\16-147_D6NoiseWalls\5.0 Design (Work) Phase\93446\Roadway\Sheets\93446X5002A.dgn 2021-01-04 5:18:56 PM jennifer.kelley" ODOTcadd_PDF.pltcfgr ODOTV81_Pen-ME.tbl IBI Group



E-3498

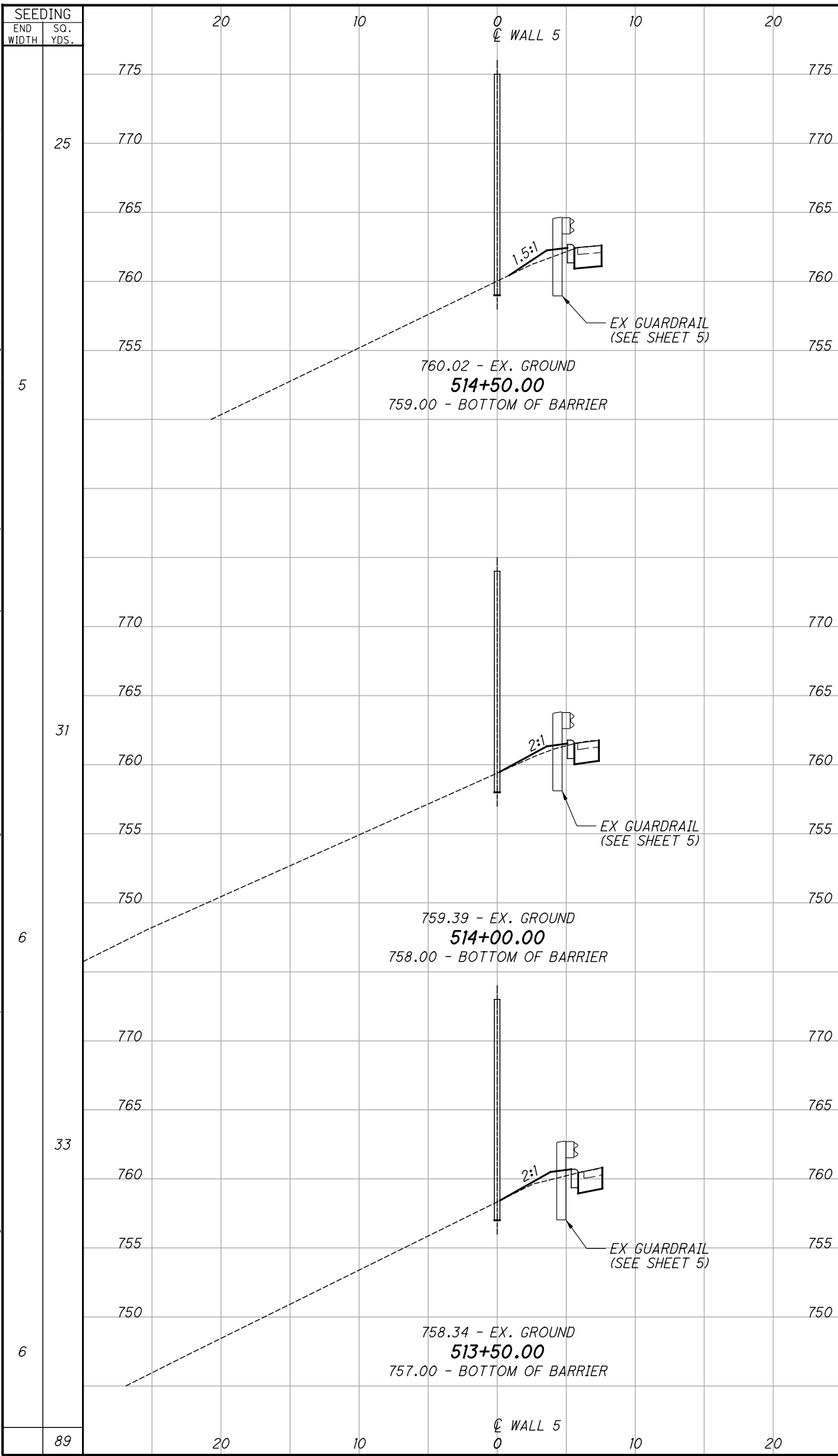


CROSS SECTIONS S.R. 315 WALL 5
 STA. 510+50.00 TO STA. 513+00.00

FRA-315-7.13
 NOISE WALLS

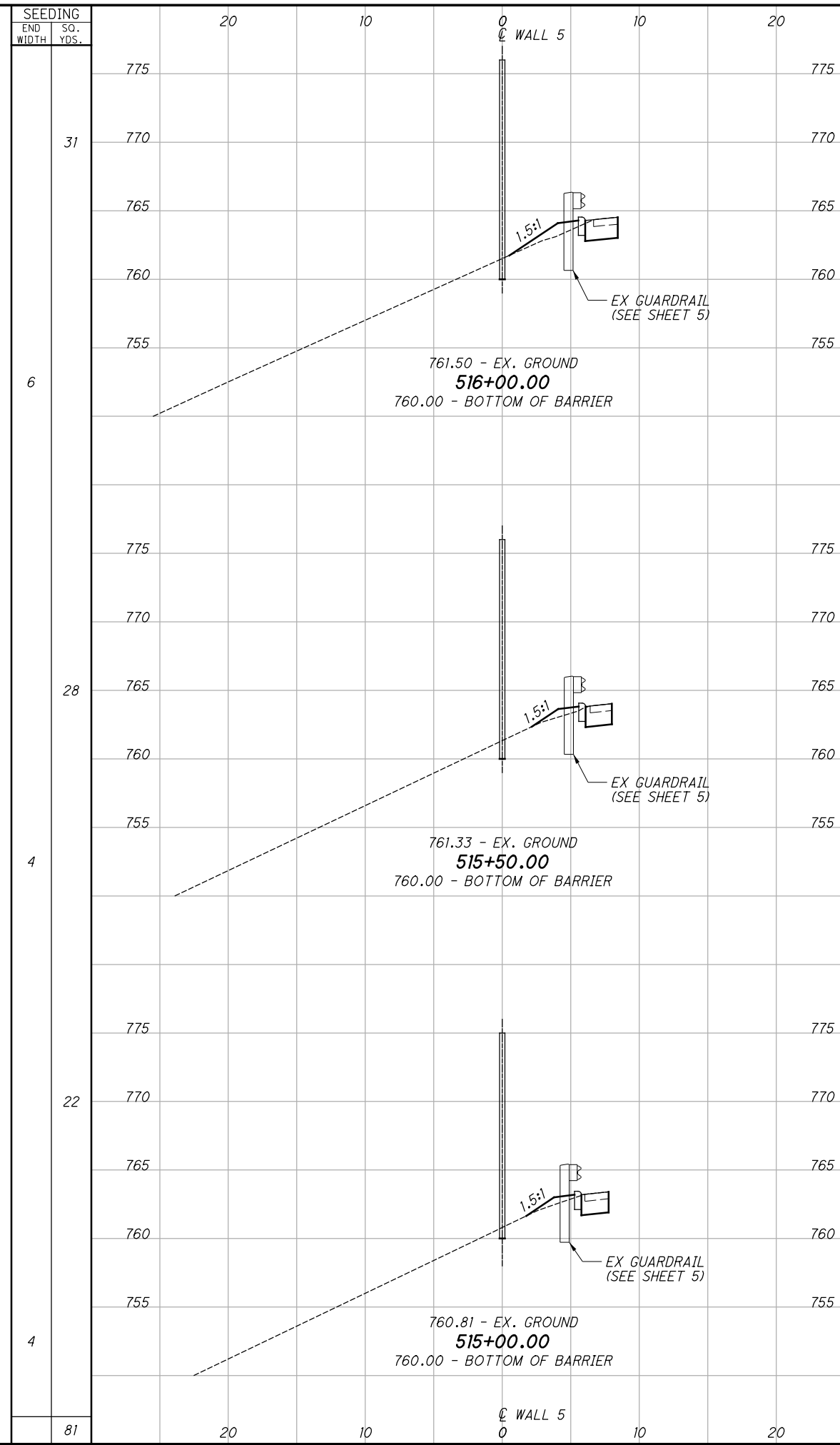
50
80

J:\16-147_D6NoiseWalls\5.0 Design (Work) Phase\93446\roadway\sheets\93446X5002A.dgn 2021-01-04 5:18:56 PM jennifer.keiley ODOTcadd_PDF.pltcfgr ODOTV81_Pen-ME.tbl IBI Group



SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
25				7	3
5		4	2		
31				6	3
6		3	1		
33				6	3
6		3	2		
89				19	9

E-3498



SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
31				7	4
6		4	3		
28				7	4
4		4	1		
22				7	2
4		4	1		
81				21	10

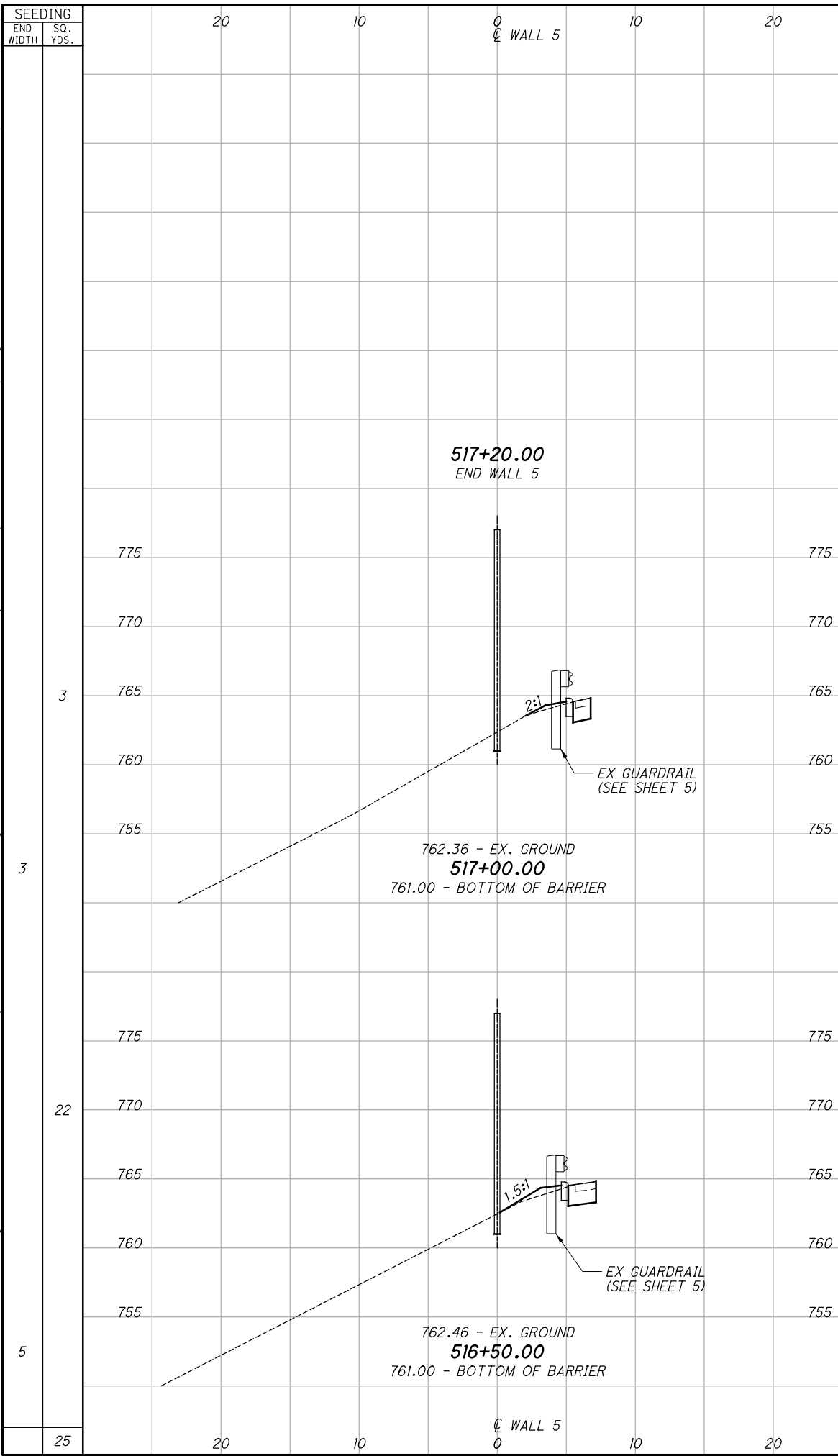
SEEDING		END AREA		VOLUME		CALCULATED		
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	BMM	CHECKED	RMH
89				19	9			
81				21	10			

CROSS SECTIONS S.R. 315 WALL 5
STA. 513+50.00 TO STA. 516+00.00

FRA-315-7.13
NOISE WALLS

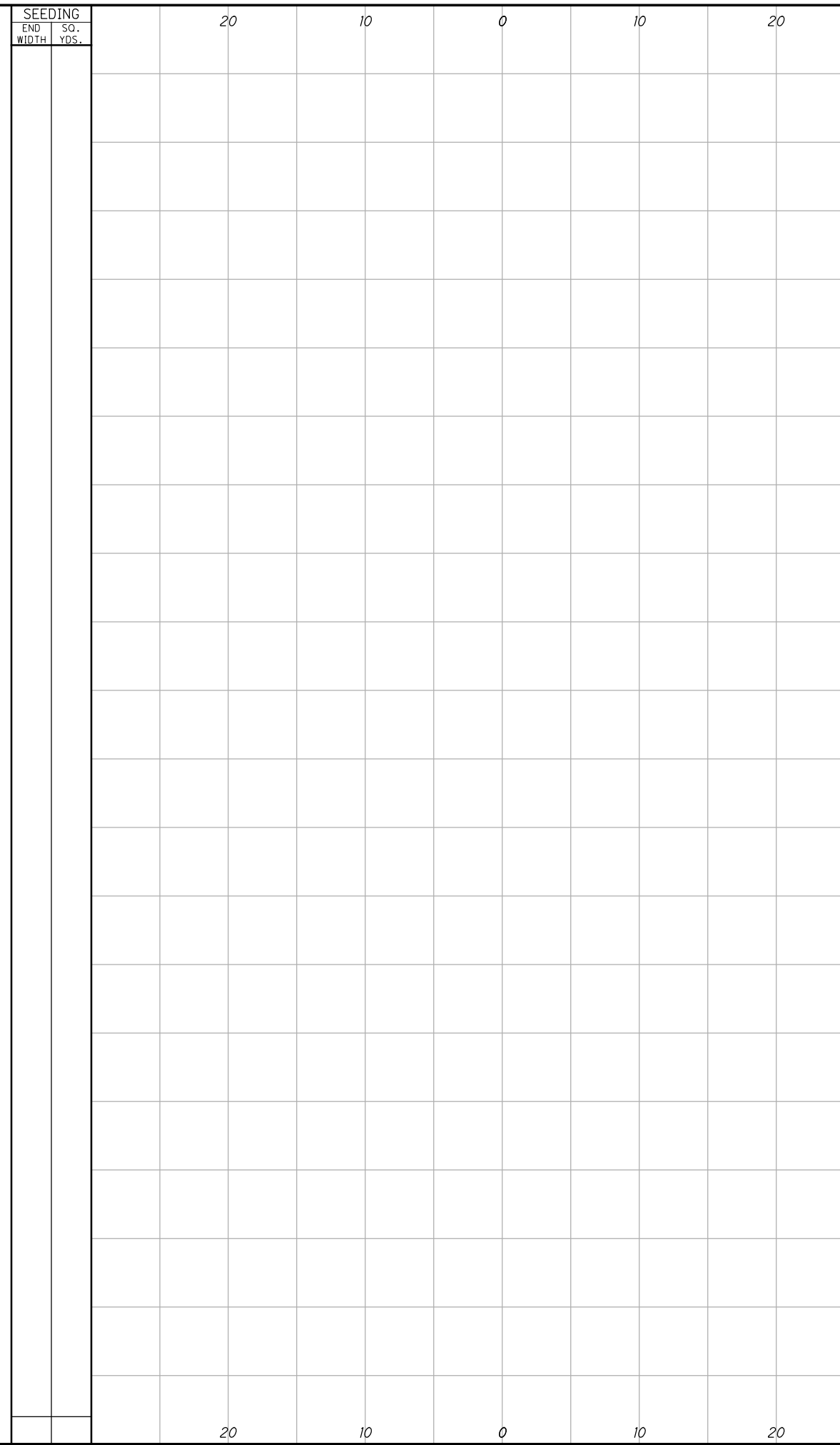
51
80

J:\16-147_D6NoiseWalls\5.0 Design (Work) Phase\93446\roadway\sheets\93446XS002A.dgn 2021-01-04 5:18:57 PM_jennifer.kelley" ODOTcadd_PDF.pltcfgr_ODOTV81_Pen-ME.tbl IBI Group



END CUT	AREA FILL	VOLUME	
		CUT	FILL
3	1	3	1
4	1	4	1
7	3	7	3

E-3498



END CUT	AREA FILL	VOLUME	
		CUT	FILL

CALCULATED		BMM	CHECKED	RMH
52				
CROSS SECTIONS S.R. 315 WALL 5				
STA. 516+50.00 TO STA. 517+20.00				
FRA-315-7.13				
NOISE WALLS				
80				

J:\16-147_D6NoiseWalls\5.0 Design (Work)\Phase\93446\Roadway\Sheets\93446\WD001.dgn 2021-01-04 5:19:07 PM jennifer.kelley ODOTcadd_PDF.pltcfgr ODOTV8I_Pen-NE.tbl |BI Group

NOISE WALL 4							
DRILLED SHAFT NO.	WORKPOINT STATION	TOP OF DRILLED SHAFT ELEVATION	DRILLED SHAFT LENGTH (DL) (FEET)	POST TYPE	ACOUSTIC PROFILE ELEVATION	BOTTOM OF BARRIER ELEVATION	TOP OF BARRIER ELEVATION
1	400+00.00	742.76	19.00	B	757.74	743.00	759.00
2	400+08.00	742.69	19.00	A	757.30	743.00	759.00
3	400+32.00	742.69	19.00	A	757.24	743.00	759.00
4	400+56.00	742.69	19.00	A	757.49	743.00	759.00
5	400+80.00	742.69	19.00	A	757.34	743.00	759.00
6	401+04.00	742.69	19.00	A	755.81	743.00	759.00
7	401+28.00	742.69	19.00	A	755.45	743.00	759.00
8	401+52.00	742.69	19.00	A	756.11	743.00	759.00
9	401+76.00	742.69	19.00	A	757.15	743.00	759.00
10	401+92.00	742.69	19.00	A	757.68	743.00	760.00
11	402+16.00	743.69	19.00	A	758.22	744.00	760.00
12	402+40.00	743.69	19.00	A	758.56	744.00	760.00
13	402+64.00	744.69	15.50	A	758.58	745.00	761.00
14	402+88.00	744.69	15.50	A	759.84	745.00	761.00
15	403+12.00	744.69	15.50	A	759.83	745.00	761.00
16	403+36.00	744.69	15.50	A	759.68	745.00	761.00
17	403+60.00	744.69	15.50	A	759.86	745.00	761.00
18	403+84.00	745.69	15.50	A	760.15	746.00	761.00
19	404+08.00	745.69	15.50	A	760.03	746.00	761.00
20	404+32.00	745.69	15.50	A	759.86	746.00	761.00
21	404+56.00	745.69	15.50	A	759.85	746.00	761.00
22	404+80.00	745.69	13.00	A	759.80	746.00	761.00
23	405+04.00	745.69	13.00	A	759.77	746.00	761.00
24	405+28.00	745.69	13.00	A	759.78	746.00	761.00
25	405+52.00	745.69	13.00	A	759.81	746.00	761.00
26	405+76.00	745.69	13.00	A	759.67	746.00	761.00
27	406+00.00	745.69	13.00	A	759.61	746.00	761.00
28	406+24.00	744.69	13.00	A	759.53	745.00	761.00
29	406+48.00	744.69	13.00	A	759.49	745.00	761.00
30	406+72.00	744.69	19.00	A	759.45	745.00	761.00
31	406+96.00	744.69	19.00	A	759.37	745.00	761.00
32	407+20.00	744.69	19.00	A	759.37	745.00	761.00
33	407+44.00	744.69	19.00	A	759.31	745.00	761.00
34	407+68.00	744.69	19.00	A	759.29	745.00	761.00
35	407+92.00	744.69	19.00	A	759.26	745.00	761.00
36	408+16.00	744.69	19.00	A	759.19	745.00	761.00
37	408+40.00	744.69	19.00	A	759.24	745.00	761.00
38	408+64.00	744.69	10.50	A	759.16	745.00	761.00
39	408+88.00	744.69	10.50	A	758.88	745.00	761.00
40	409+12.00	744.69	10.50	A	759.01	745.00	761.00
41	409+36.00	744.69	10.50	A	759.03	745.00	761.00
42	409+60.00	744.69	10.50	A	758.66	745.00	761.00
43	409+76.00	744.76	10.50	B	758.55	745.00	760.00

REFER TO SHEET 74 FOR NOISE WALL 6 DETAILS

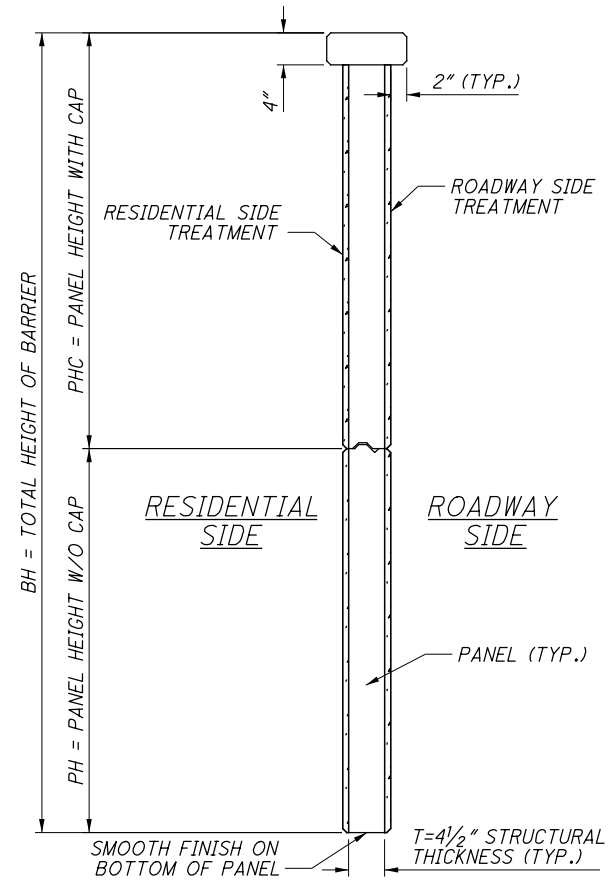
NOISE WALL 5							
DRILLED SHAFT NO.	WORKPOINT STATION	TOP OF DRILLED SHAFT ELEVATION	DRILLED SHAFT LENGTH (DL) (FEET)	POST TYPE	ACOUSTIC PROFILE ELEVATION	BOTTOM OF BARRIER ELEVATION	TOP OF BARRIER ELEVATION
1	504+56.00	741.76	9.00	B	756.36	742.00	757.00
2	504+64.00	741.69	9.00	A	756.35	742.00	758.00
3	504+88.00	741.69	9.00	A	756.38	742.00	758.00
4	505+12.00	741.69	9.00	A	756.42	742.00	758.00
5	505+36.00	741.69	9.00	A	756.53	742.00	758.00
6	505+60.00	742.69	9.00	A	756.69	743.00	758.00
7	505+84.00	742.69	9.00	A	756.80	743.00	758.00
8	506+08.00	742.69	9.00	A	756.91	743.00	758.00
9	506+32.00	742.69	9.00	A	757.00	743.00	759.00
10	506+56.00	742.69	9.00	A	757.21	743.00	759.00
11	506+80.00	742.69	9.00	A	757.46	743.00	759.00
12	507+04.00	743.69	9.00	A	757.62	744.00	759.00
13	507+28.00	743.69	9.00	A	757.82	744.00	760.00
14	507+52.00	743.69	9.00	A	758.34	744.00	760.00
15	507+76.00	743.69	9.00	A	758.56	744.00	760.00
16	508+00.00	744.69	9.00	A	758.87	745.00	761.00
17	508+16.00	744.69	9.00	A	759.11	745.00	761.00
18	508+40.00	744.69	9.00	A	759.20	745.00	761.00
19	508+64.00	744.69	9.00	A	759.58	745.00	761.00
20	508+72.00	745.69	9.00	A	759.76	746.00	762.00
21	508+96.00	745.69	9.00	A	760.03	746.00	762.00
22	509+20.00	745.69	9.00	A	760.60	746.00	763.00
23	509+44.00	746.69	9.00	A	761.65	747.00	763.00
24	509+68.00	747.69	14.50	A	761.91	748.00	764.00
25	509+92.00	747.69	14.50	A	762.55	748.00	765.00
26	510+16.00	748.69	14.50	A	763.52	749.00	766.00
27	510+40.00	749.69	14.50	A	764.33	750.00	766.00
28	510+64.00	749.69	14.50	A	764.97	750.00	767.00
29	510+88.00	750.69	14.50	A	765.51	751.00	768.00
30	511+12.00	750.69	14.50	A	766.12	751.00	768.00
31	511+36.00	751.69	14.50	A	766.95	752.00	769.00
32	511+60.00	752.69	14.50	A	767.71	753.00	770.00
33	511+84.00	753.69	10.00	A	768.11	754.00	770.00
34	512+08.00	753.69	10.00	A	768.52	754.00	770.00
35	512+32.00	754.69	10.00	A	769.01	755.00	771.00
36	512+56.00	754.69	10.00	A	769.63	755.00	772.00
37	512+80.00	755.69	10.00	A	770.20	756.00	772.00
38	513+04.00	755.69	10.00	A	770.77	756.00	773.00
39	513+28.00	756.69	10.00	A	771.09	757.00	773.00
40	513+52.00	756.69	10.00	A	771.42	757.00	773.00
41	513+76.00	756.69	10.00	A	772.08	757.00	774.00
42	514+00.00	757.69	10.00	A	772.41	758.00	774.00
43	514+24.00	757.69	10.00	A	772.75	758.00	774.00
44	514+48.00	758.69	10.00	A	773.01	759.00	775.00
45	514+72.00	758.69	10.00	A	773.36	759.00	775.00
46	514+96.00	759.69	10.00	A	773.77	760.00	775.00
47	515+20.00	759.69	10.00	A	774.05	760.00	776.00
48	515+36.00	759.69	10.00	A	774.20	760.00	776.00
49	515+60.00	759.69	10.00	A	774.45	760.00	776.00
50	515+84.00	759.69	10.00	A	774.40	760.00	776.00
51	515+92.00	759.69	10.00	A	774.40	760.00	776.00
52	516+16.00	759.69	15.00	A	774.79	760.00	777.00
53	516+40.00	760.69	15.00	A	775.42	761.00	777.00
54	516+64.00	760.69	15.00	A	775.53	761.00	777.00
55	516+88.00	760.69	15.00	A	775.42	761.00	777.00
56	517+12.00	760.69	15.00	A	775.58	761.00	777.00
57	517+20.00	760.76	15.00	B	775.65	761.00	777.00

CALCULATED
BMM
CHECKED
RMH

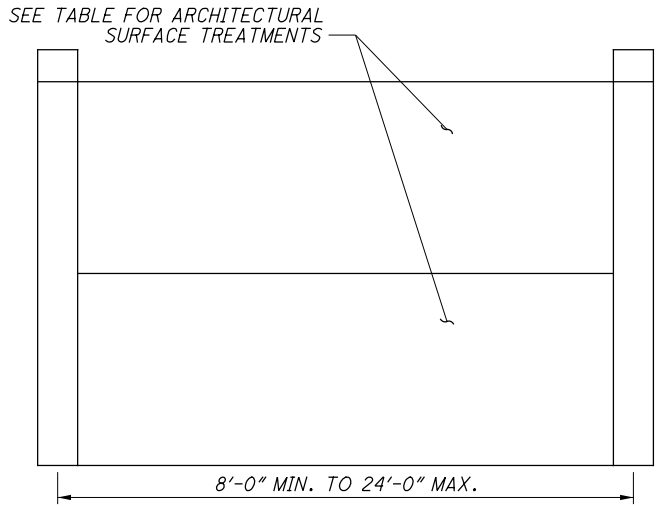
NOISE WALL DETAILS - WALLS 4 & 5

FRA-315-7.13
NOISE WALLS

J:\16-147_D6NoiseWalls\5.0 Design (Work)\Phase\93446\roadway\sheets\93446GR001.dgn 2021-01-04 5:19:10 PM jennifer.kelley" ODOTV8i_Pen-ME.tbl IBI Group



STACKED PANEL DETAIL



NOISE WALL DETAIL
NOISE WALL PANEL NOTES:

1. FOR DETAILS NOT SHOWN SEE STD. DWG. NBS-1-09
2. ALL CONCRETE NOISE WALL POSTS SHALL USE A CONCRETE WATERPROOFING ADMIXTURE IN LIEU OF AN EXTERIOR SEALER. PENETRON AND BASF MASTERLIFE 300D ARE APPROVED SUPPLIERS.
3. ALL NOISE WALL PANELS SHALL BE REFLECTIVE.
4. RUSTICATION GROOVES ON ALL CONCRETE NOISE WALL POSTS SHALL BE 3/4".
5. THE TOP OF THE POST SHALL MEET THE TOP OF THE HIGHEST ADJACENT PANEL.

PANEL MATERIAL AND ARCHITECTURAL SURFACE TREATMENT

NOISE WALL	PANEL MATERIAL	RESIDENTIAL SIDE TREATMENT		ROADWAY SIDE TREATMENT	
		COLOR FEDERAL COLOR NUMBER	TEXTURE FORMLINER ID	COLOR FEDERAL COLOR NUMBER	TEXTURE FORMLINER ID
WALL 4	CONCRETE	GRAY 595B-17778	DRY STACK - ARCHITECTURAL POLYMER 9110 LARGE STONE OHIO DRY STACK OR APPROVED EQUAL	GRAY 595B-17778	ASHLAR - ARCHITECTURAL POLYMER 905 SMALL AGED ASHLAR OR ENGINEER APPROVED EQUAL
WALL 5	CONCRETE	GRAY 595B-17778	DRY STACK - ARCHITECTURAL POLYMER 9110 LARGE STONE OHIO DRY STACK OR APPROVED EQUAL	GRAY 595B-17778	ASHLAR - ARCHITECTURAL POLYMER 905 SMALL AGED ASHLAR OR ENGINEER APPROVED EQUAL
WALL 6	CONCRETE	GRAY 595B-17778	DRY STACK - ARCHITECTURAL POLYMER 9110 LARGE STONE OHIO DRY STACK OR APPROVED EQUAL	GRAY 595B-17778	ASHLAR - ARCHITECTURAL POLYMER 905 SMALL AGED ASHLAR OR ENGINEER APPROVED EQUAL

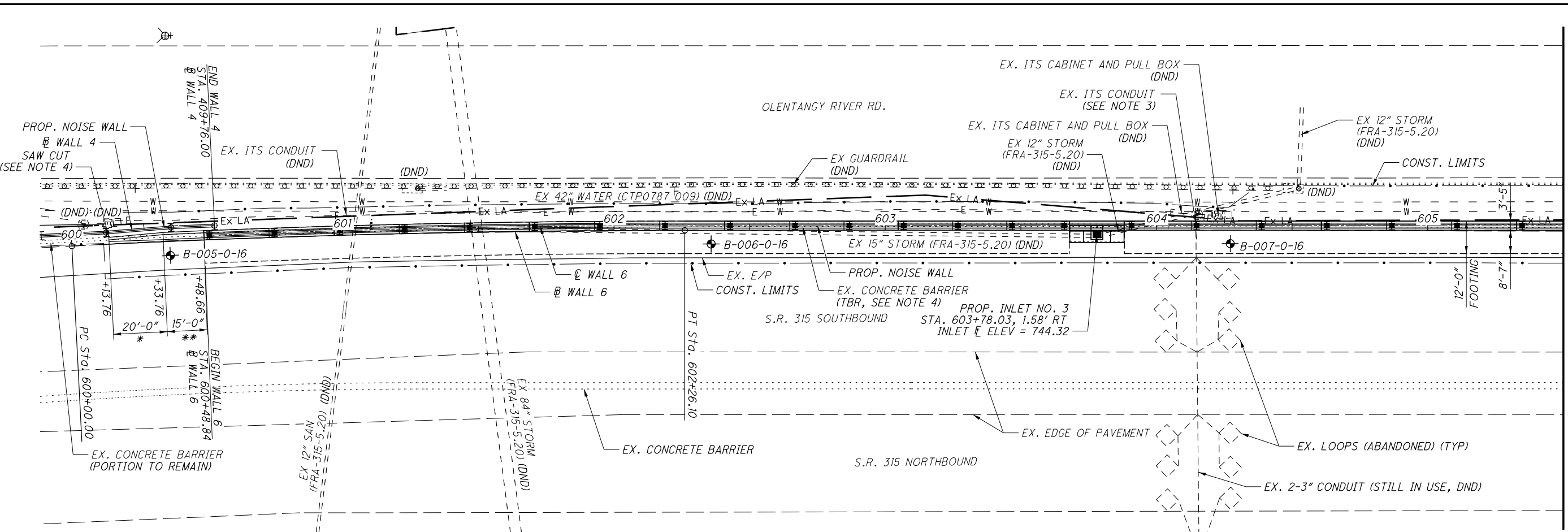
AESTHETIC SURFACE TREATMENT:
THE SURFACE OF ALL NOISE PANELS SHALL HAVE A PATTERN SPECIFIED BY THE CHART ABOVE. PATTERN RELIEF SHALL BE A MINIMUM OF 1". THE COLOR SHALL BE AS SPECIFIED BY THE CHART ABOVE, UNLESS SPECIFIED OTHERWISE BY THE PLAN DETAILS.

CALCULATED
BSS
CHECKED
RMH

NOISE WALL DETAILS

FRA-315-7.13
NOISE WALLS

I:\16-147_D6NoiseWalls\5.0_Design (Work)_Phase\934446_structures\Wall_006\sheets\934446_006WP001.dgn 2021-03-05 2:04:17 PM jennifer.kelley ODOTV8i_Pen.tbl IBI Group



PLAN

POINT	WALL 6 STATION	ELEVATION
(A)	600+48.84	749.82
(B)	600+96.83	749.57
(C)	601+68.80	749.32
(D)	602+40.78	749.07
(E)	603+04.78	748.82

WALL 6 STATIONS GIVEN AT @ WALL 6

BORING	WALL STATION	WALL OFFSET	TOP OF ROCK ELEVATION
B-005-0-16	600+36.14	5.18' RT	N/A
B-006-0-16	602+35.80	5.05' RT	N/A
B-007-0-16	604+27.17	4.94' RT	N/A

STATIONS AND OFFSETS GIVEN AT @ WALL 6

@ WALL 6 CURVE DATA

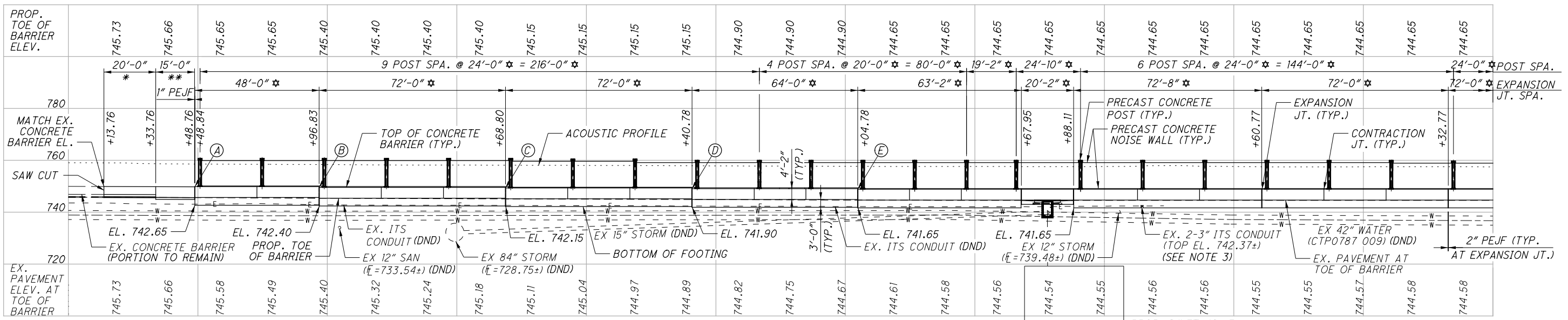
P.I. STA. 601+13.07
 $\Delta = 2^\circ 56' 55''$ (RT)
 $D_c = 1^\circ 18' 15''$
 $R = 4,393.37'$
 $T = 113.07'$
 $L = 226.10'$
 $E = 1.45'$
 $C = 226.07'$
 $C.B. = N 3^\circ 42' 02'' W$

LEGEND:

- BORING LOCATION
- WALL 6

NOTES:

1. EARTH WORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. SEE CROSS SECTIONS FOR ADDITIONAL UTILITY INFORMATION.
3. HAND EXCAVATE AND EXPOSE TO VERIFY ITS CONDUIT DEPTH PRIOR TO NOISE BARRIER INSTALLATION.
4. SAW CUT AND REMOVE EXISTING CONCRETE BARRIER WITHIN THE LIMITS SHOWN ON THE PLANS.
5. SEE SHEETS 4 OF 21 FOR GENERAL NOTES.
6. SEE SHEET 16 OF 21 FOR SECTION VIEWS.
7. SEE SHEET 20 OF 21 FOR WALL 6 DESIGN CHARTS.
8. REFER TO SHEET 4 FOR STORM, SANITARY, WATER, AND UTILITY LINE PROTECTION NOTES AND REQUIREMENTS.



WALL 6 ELEVATION

- * - CONCRETE BARRIER TRANSITION
- ** - CONCRETE BARRIER END ANCHOR
- ☆ - DIMENSIONS MEASURED ALONG @ WALL 6

EX. CB (TBR)
 STA 603+78.04, 1.54' RT
 GRATE ELEV = 744.47
 \bar{E} EX. 12" N = 739.27
 \bar{E} EX. 12" S = 739.07
 \bar{E} EX. 12" E = 741.69

PROP. INLET NO. 3
 STA 603+78.02, 1.58' RT
 INLET \bar{E} ELEV = 744.32
 \bar{E} 12" N = 739.27
 \bar{E} 12" S = 739.07
 \bar{E} 6" E = 741.69

MATCH LINE - STA 605+50 - WALL 6 SEE SHEET 2 OF 21

DESIGN AGENCY: IBI GROUP, Inc. 10000 North Street, Columbus, OH 43225, Tel: 614 918 4000, Fax: 614 918 4001, IBIgroup.com

DATE: 07/20/18

REVIEWED: SRB

DRAWN: SS

DESIGNED: SS

CHECKED: AIS

STRUCTURE FILE NUMBER: N/A

HORIZONTAL SCALE IN FEET: 1" = 20'

WALL 6 - PLAN AND PROFILE

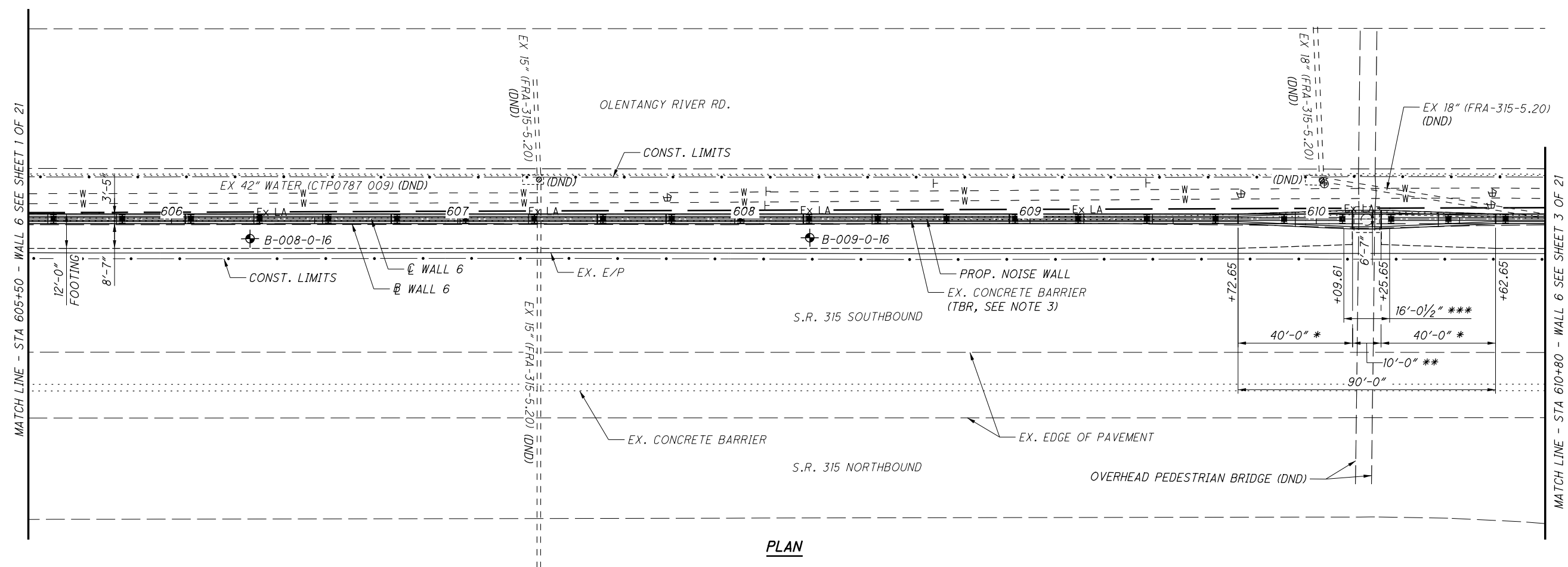
STA. 600+48.84 TO STA. 605+50.00

FRA-315-7.13

PID No. 106877

1 / 21

55 / 80



PLAN

WALL #6 ELEVATION TABLE

POINT	WALL 6 STATION	ELEVATION
(F)	606+76.77	748.57
(G)	607+72.77	748.32
(H)	608+92.77	748.07
(I)	609+72.65	747.82
(J)	610+62.65	747.57



WALL 6 STATIONS GIVEN AT (B) WALL 6

BORING LOCATIONS

BORING	WALL STATION	WALL OFFSET	TOP OF ROCK ELEVATION
B-008-0-16	606+27.45	5.23' RT	N/A
B-009-0-16	608+23.03	4.87' RT	N/A

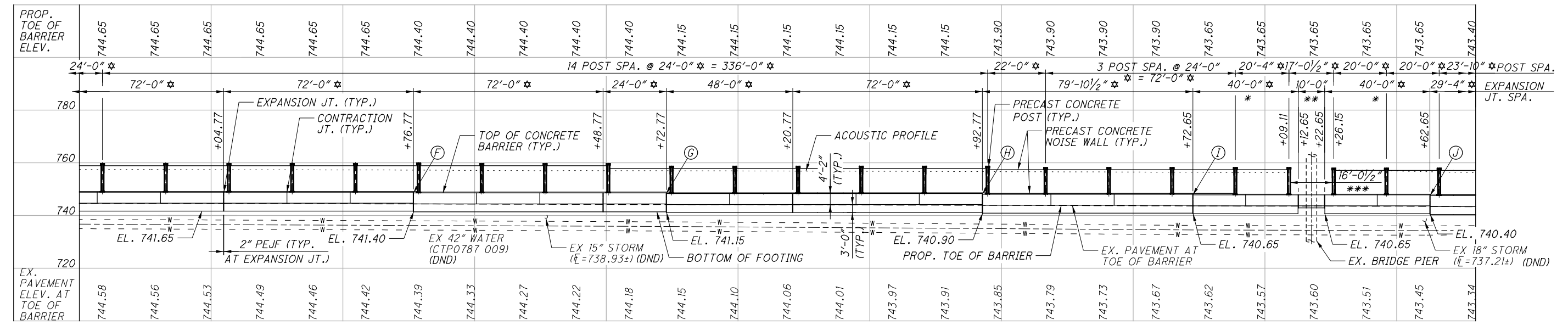
STATIONS AND OFFSETS GIVEN AT (B) WALL 6

LEGEND:

-  BORING LOCATION
-  WALL 6

NOTES:

1. EARTH WORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. SEE CROSS SECTIONS FOR ADDITIONAL UTILITY INFORMATION.
3. SAW CUT AND REMOVE EXISTING CONCRETE BARRIER WITHIN THE LIMITS SHOWN ON THE PLANS.
4. SEE SHEETS 4 OF 21 FOR GENERAL NOTES.
5. SEE SHEET 16 OF 21 FOR SECTION VIEWS.
6. SEE SHEET 20 OF 21 FOR WALL 6 DESIGN CHARTS.
7. REFER TO SHEET 4 FOR STORM, SANITARY, WATER, AND UTILITY LINE PROTECTION NOTES AND REQUIREMENTS.



WALL 6 ELEVATION

- * - CONCRETE BARRIER TRANSITION
- ** - PIER COLUMN PROTECTION BARRIER
- *** - CLEARANCE (BACK TO BACK OF POSTS)
- ☆ - DIMENSIONS MEASURED ALONG (B) WALL 6



DESIGN AGENCY
IBI GROUP, Inc.
Columbus, OH 43235
tel 614 818 4000 fax 614 818 4001
www.ibigroup.com



DATE 07/20/18
REVIEWED SRB
DRAWN SS
DESIGNED SS
CHECKED AIS

STRUCTURE FILE NUMBER N/A
REVISIONS



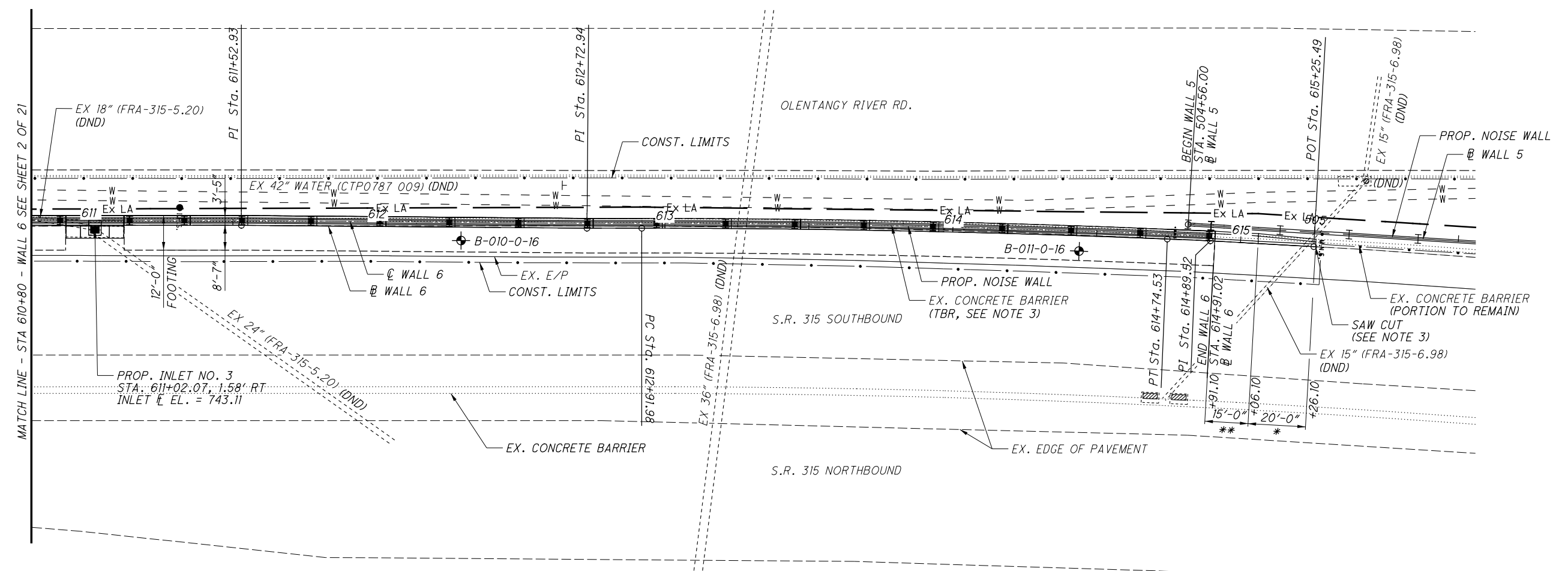
WALL 6 - PLAN AND PROFILE
STA. 610+80.00 TO STA. 614+91.02

FRA-315-7.13
PID No. 106877

3 / 21

57 / 80

E-3498



PLAN

WALL 6 CURVE DATA

P.I. Sta. 613+81.90
 $\Delta = 2^\circ 51' 50''$ (RT)
 $D_c = 1^\circ 35' 34''$
 $R = 3,597.12'$
 $T = 89.92'$
 $L = 179.80'$
 $E = 1.12'$
 $C = 179.78'$
 $C.B. = N 0^\circ 47' 39'' W$

LEGEND:

- BORING LOCATION
- WALL 6

NOTES:

1. EARTH WORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. SEE CROSS SECTIONS FOR ADDITIONAL UTILITY INFORMATION.
3. SAW CUT AND REMOVE EXISTING CONCRETE BARRIER WITHIN THE LIMITS SHOWN ON THE PLANS.
4. SEE SHEETS 4 OF 21 FOR GENERAL NOTES.
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6. SEE SHEET 20 OF 21 FOR WALL 6 DESIGN CHARTS.
7. REFER TO SHEET 4 FOR STORM, SANITARY, WATER, AND UTILITY LINE PROTECTION NOTES AND REQUIREMENTS.

WALL #6 ELEVATION TABLE

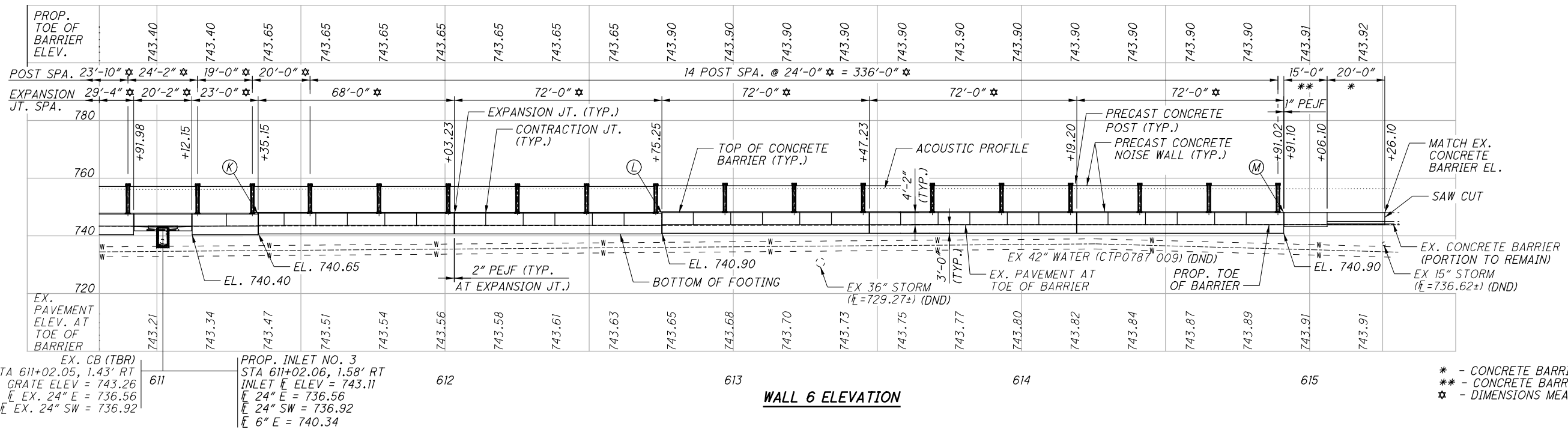
POINT	WALL 6 STATION	ELEVATION
(K)	611+35.15	747.57
(L)	612+75.25	747.82
(M)	614+91.02	748.07

WALL 6 STATIONS GIVEN AT @ WALL 6

BORING LOCATIONS

BORING	WALL STATION	WALL OFFSET	TOP OF ROCK ELEVATION
B-010-0-16	612+29.27	4.63' RT	N/A
B-011-0-16	614+44.04	5.31' RT	N/A

STATIONS AND OFFSETS GIVEN AT @ WALL 6



WALL 6 ELEVATION

- * - CONCRETE BARRIER TRANSITION
- ** - CONCRETE BARRIER END ANCHOR
- ☆ - DIMENSIONS MEASURED ALONG @ WALL 6

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J:\16-147_D6NoiseWalls\5.0 Design (Work) Phase\93446\structures\Wall_006\sheets\93446_006WN001.dgn Sheet 2021-06-09 3:02:25 PM Shirwan.Saeed

REFER TO THE FOLLOWING STANDARD DRAWING:

I-2.3 REVISED 01-15-16
 NBS-1-09 REVISED 01-19-18
 RM-4.4 REVISED 07-19-19

DESIGN SPECIFICATIONS:

THESE STRUCTURES CONFORM TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), 8TH EDITION, AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

OPERATIONAL IMPORTANCE:

A LOAD MODIFIER OF 1.0 HAS BEEN ASSUMED FOR THE DESIGN OF THESE STRUCTURES IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

DESIGN DATA:

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.5 KSI (CAST-IN-PLACE WALL)

REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

FOUNDATION BEARING RESISTANCE:

WALL 6 FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM SERVICE LOAD PRESSURE OF 5.0 KIPS PER SQUARE FOOT AND MAXIMUM STRENGTH LOAD PRESSURE OF 6.2 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 7.2 KIPS PER SQUARE FOOT.

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURES HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURES AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURES AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS SECTIONS 102.05 AND 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURES. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

NOISE WALL SHOP DRAWINGS:

THE CONTRACTOR'S NOISE WALL SHOP DRAWINGS SHALL INCLUDE THE ACOUSTICAL PROFILE ON ALL SHOP DRAWING SUBMITTALS.

NOISE WALL ANCHORS:

ACCURATELY PLACE REINFORCING STEEL IN THE VICINITY OF THE NOISE WALL ANCHOR RODS TO AVOID INTERFERENCE WITH THE DRILLING OF BEARING ANCHOR HOLES OR THE PRE-SETTING OF ANCHORS.

ITEM 606, SPECIAL - NOISE BARRIER: BARRIER MOUNTED NOISE WALL:

THE CONTRACTOR SHALL PERFORM THIS ITEM OF WORK AS STATED IN STANDARD CONSTRUCTION DRAWING NBS-1-09, EXCEPT AS MODIFIED ON SHEETS 55 - 75. ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 606, SPECIAL - NOISE BARRIER: BARRIER MOUNTED NOISE WALL FOR PAYMENT.

FOR COLOR AND TEXTURE, SEE SHEET 54 OF 80.

ABBREVIATIONS:

THE FOLLOWING ABBREVIATIONS ARE USED THROUGHOUT THESE PLANS:

- B = BASELINE
- BOTT. = BOTTOM
- CL = CENTERLINE
- CIP = CAST IN PLACE
- C.J. = CONTRACTION JOINT
- BRG = BEARING
- CMS = CONSTRUCTION AND MATERIAL SPECIFICATIONS
- CONC = CONCRETE
- DND = DO NOT DISTURB
- EF = EACH FACE
- E.J. = EXPANSION JOINT
- FF = FAR FACE
- FTG. = FOOTING
- NF = NEAR FACE
- EL = ELEVATION
- EX = EXISTING
- NPCPP = NON-PERFORATED CORRUGATED PLASTIC PIPE
- PROP = PROPOSED
- TYP = TYPICAL
- PEJF = PREFORMED EXPANSION JOINT FILLER
- PCPP = PERFORATED CORRUGATED PLASTIC PIPE
- TBR = TO BE REMOVED
- TBRBO = TO BE REMOVED BY OTHERS

COMPUTED BY: SS DATED: 7-13-18
 CHECKED BY: AIS DATED: 7-13-18

ESTIMATED QUANTITIES					DESCRIPTION	REF. SHEET
ITEM	ITEM EXTENSION	TOTAL	UNITS			
202	23000	2,073	SY	PAVEMENT REMOVED		
202	30700	1,513	FT	CONCRETE BARRIER REMOVED		
503	21300	LUMP		UNCLASSIFIED EXCAVATION		
509	10000	181,011	POUND	EPOXY COATED REINFORCING STEEL		
511	46012	592	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING		
511	46512	1,162	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING		
512	10100	1,737	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		
516	13600	26	SF	1" PREFORMED EXPANSION JOINT FILLER		
516	13900	801	SF	2" PREFORMED EXPANSION JOINT FILLER		
SPECIAL	60610920	13,462	SF	NOISE BARRIER: BARRIER MOUNTED NOISE WALL		4 OF 21
622	10201	2	EACH	BARRIER TRANSITION, AS PER PLAN		19 OF 21
622	90200	2	EACH	BARRIER, MISC.: END ANCHORAGE, REINFORCED		19 OF 21
ITEMS CARRIED TO THE GENERAL SUMMARY						

GENERAL NOTES & ESTIMATED QUANTITIES
 WALL 6, CIP CONCRETE WALL

FRA -315-7.13
 PID No. 106877

4 / 21

58
80

DESIGN AGENCY
 IBI GROUP
 8101 North High Street
 Columbus, OH 43235
 614.890.1800 fax 614.816.1001
 ibi@ibigroup.com

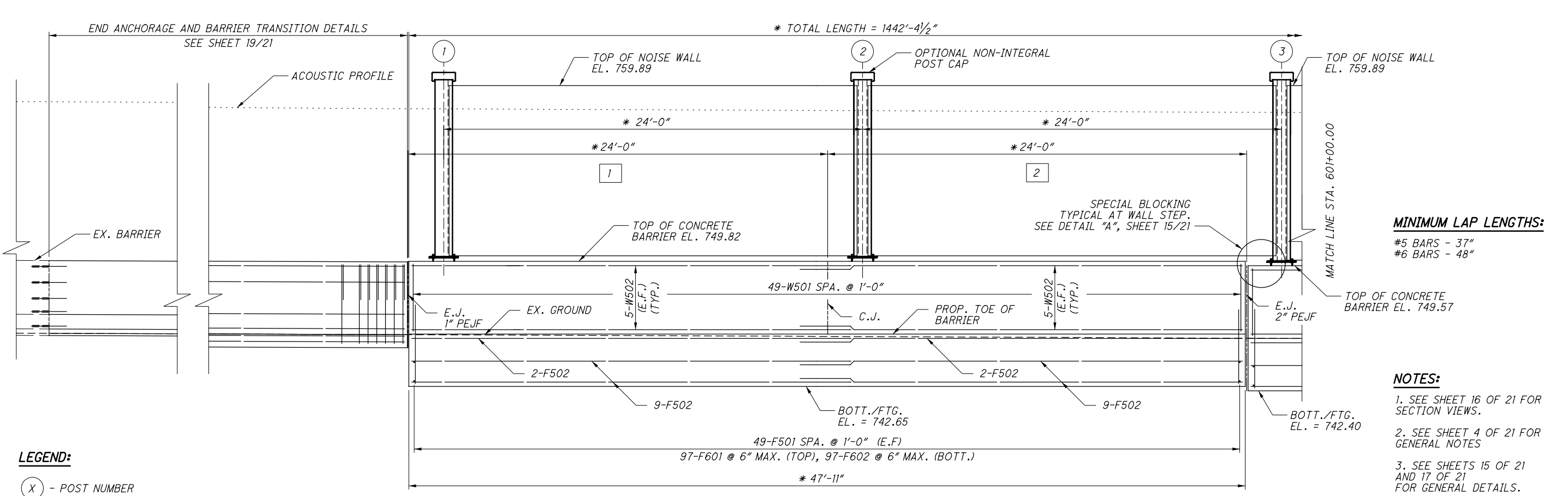


DATE
07/20/18
REVIEWED
SRB
STRUCTURE FILE NUMBER
N/A

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REVISION
CHECKED
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AIS

J:\16-147_D6NoiseWalls\5.0 Design (Work) Phase\934446_structures\Wall_006\sheets\93446_006WE001.dgn 2021-01-05 8:28:49 AM jennifer.keley ODOTV81_PDF_Half.plt:cfjg ODOTV81_Pen.tbl IBI Group



LEGEND:

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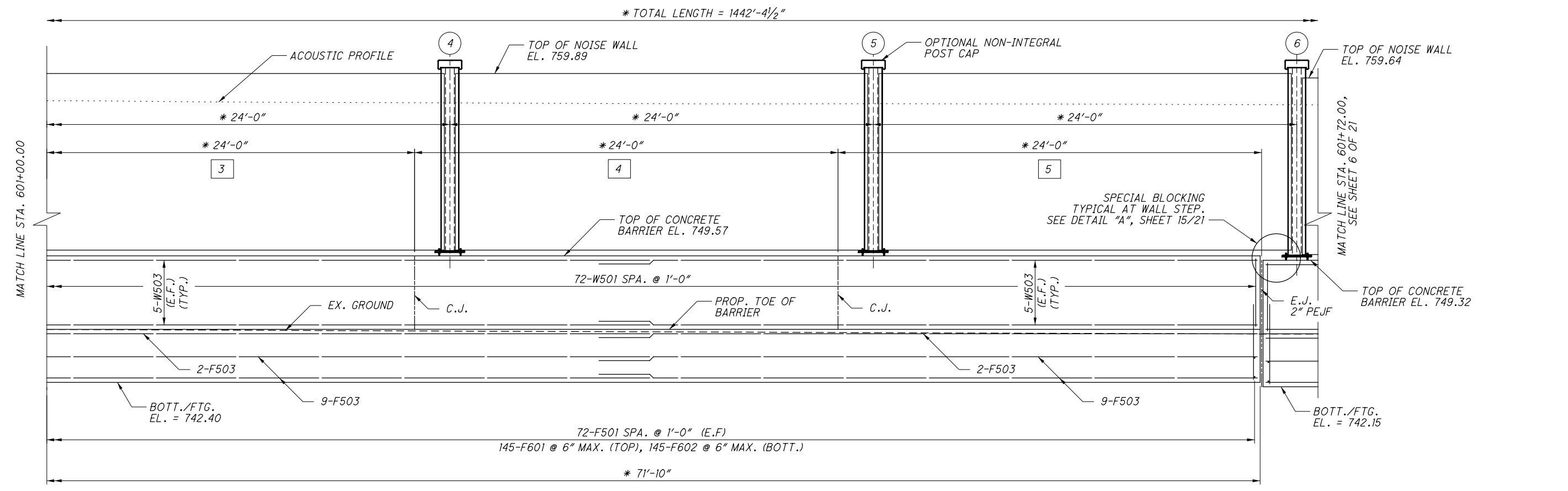
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NOTES:

- SEE SHEET 16 OF 21 FOR SECTION VIEWS.
- SEE SHEET 4 OF 21 FOR GENERAL NOTES
- SEE SHEETS 15 OF 21 AND 17 OF 21 FOR GENERAL DETAILS.
- SEE SHEET 19 OF 21 FOR BARRIER TRANSITION DETAILS

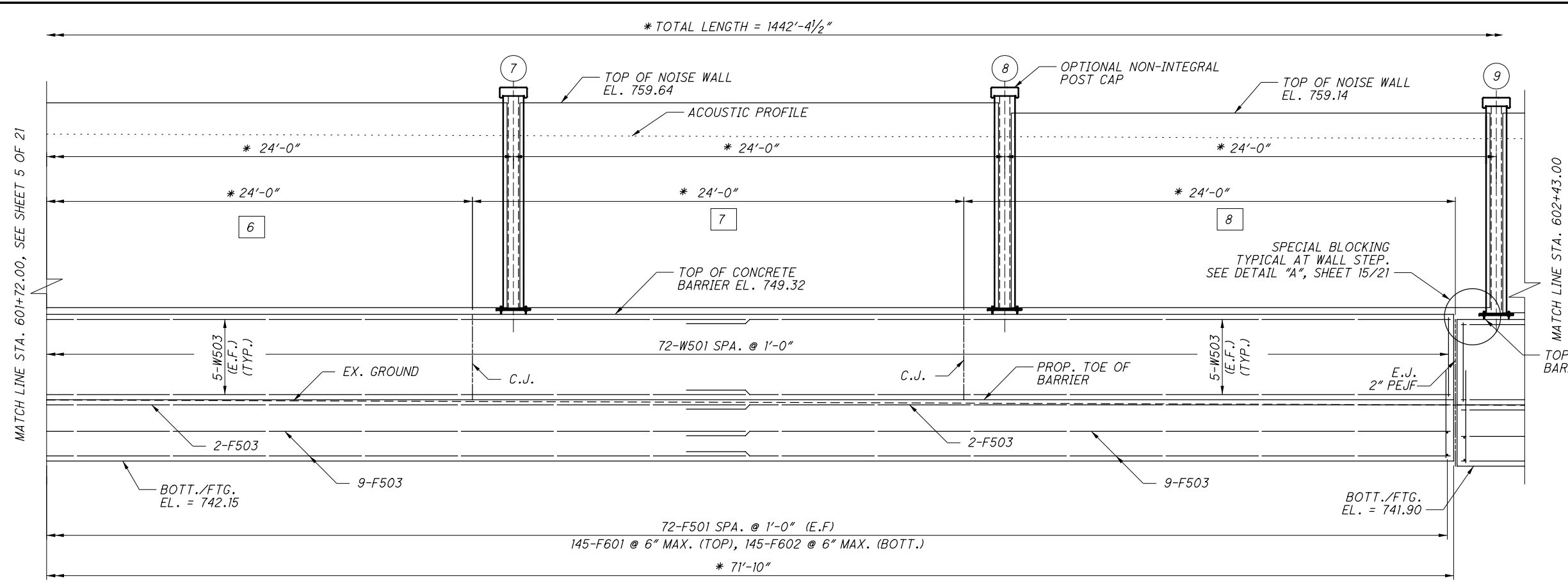
* MEASUREMENTS ALONG CENTERLINE OF WALL

PARTIAL ELEVATION



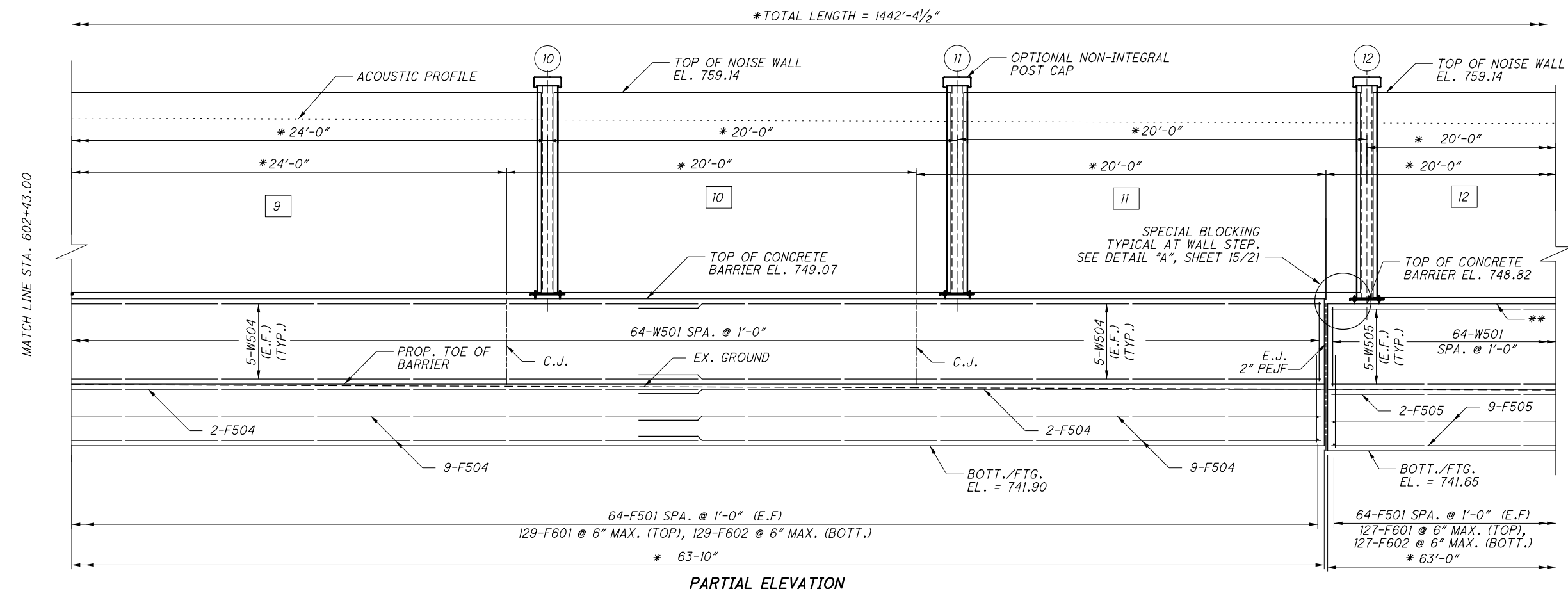
PARTIAL ELEVATION

DESIGNED	AISS	CHECKED	SS
DRAWN	AISS	REVISED	
REVIEWED	SRB	STRUCTURE FILE NUMBER	N/A
DATE	07/20/18		
IBI GROUP			
DESIGN AGENCY			
IBI GROUP			
8101 North High Street			
Columbus, OH 43235			
Tel: 614.880.1800 Fax: 614.816.1001			
http://www.ibigroup.com			
WALL 6 ELEVATION			
WALL 6, CIP CONCRETE WALL			
FRA-315-7.13			
PID No. 106877			
5 / 21			
59			
80			



MINIMUM LAP LENGTHS:
 #5 BARS - 37"
 #6 BARS - 48"

- NOTES:**
1. SEE SHEET 16 OF 21 FOR SECTION VIEWS.
 2. SEE SHEET 4 OF 21 FOR GENERAL NOTES
 3. SEE SHEETS 15 OF 21 AND 17 OF 21 FOR GENERAL DETAILS.
- * MEASUREMENTS ALONG CENTERLINE OF WALL

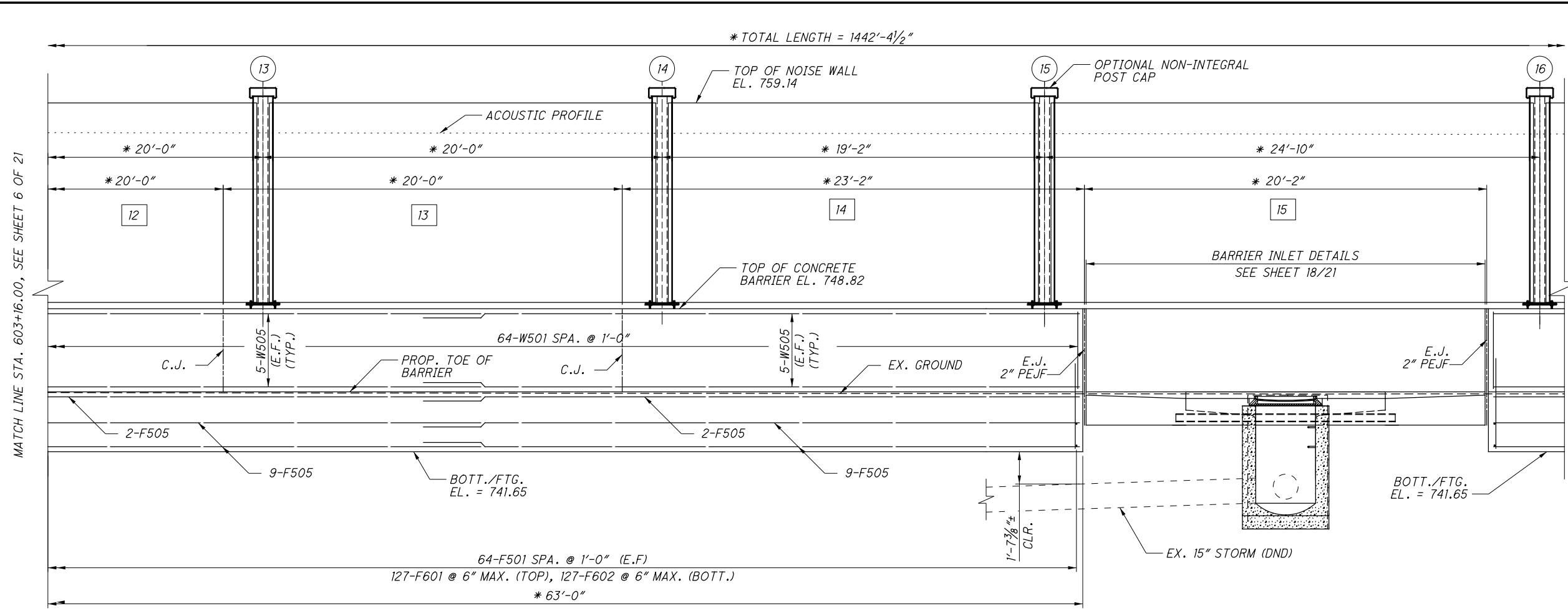


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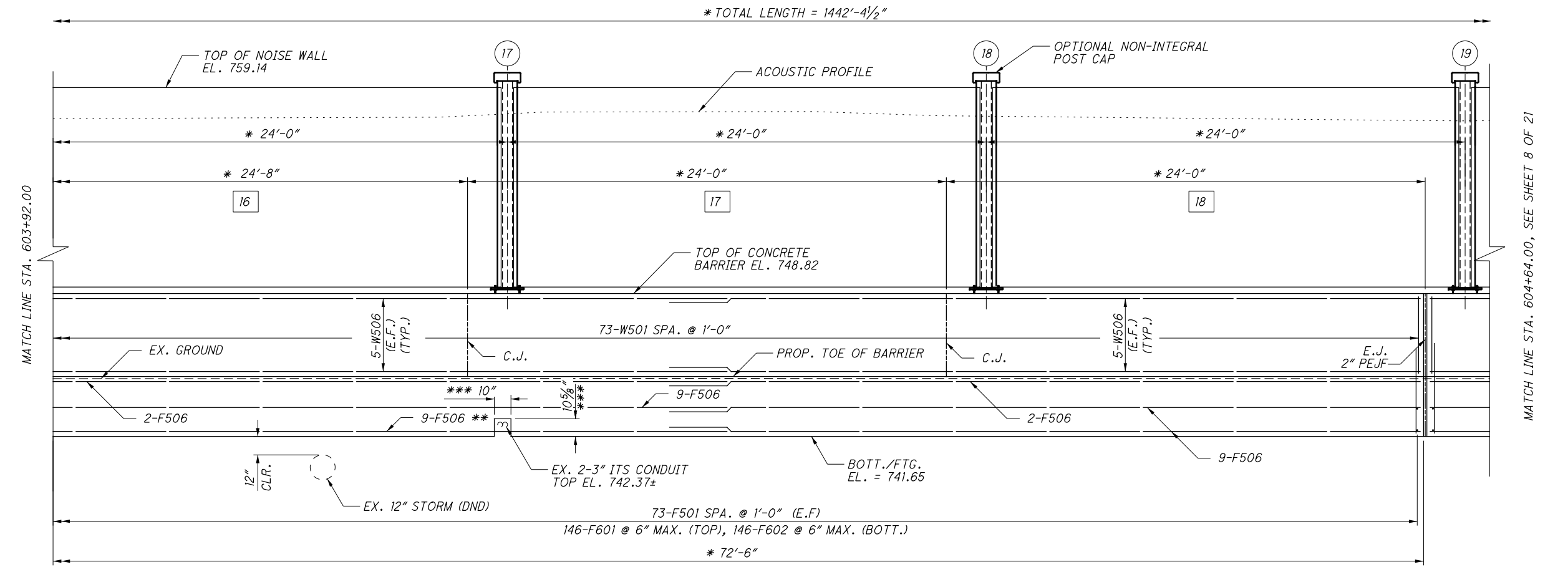
(X) - POST NUMBER
 [X] - PANEL NUMBER

** TOP OF CONCRETE BARRIER EL. 748.82

	DESIGN AGENCY IBI Group 8101 North High Street Columbus, OH 43235 Tel: 614.880.1800 Fax: 614.816.8001 ibi@ibi.com																
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DESIGNED	DRAWN	REVIEWED	DATE														
AIS	AIS	SRB	07/20/18														
CHECKED	REVISED	STRUCTURE FILE NUMBER	N/A														
SS																	
FRA-315-7.13 PID No. 106877	6 / 21 <table border="1" style="width: 40px; height: 40px; margin: auto; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 20px;">60</td> </tr> <tr> <td style="text-align: center;">80</td> </tr> </table>	60	80														
60																	
80																	



PARTIAL ELEVATION



PARTIAL ELEVATION

MINIMUM LAP LENGTHS:

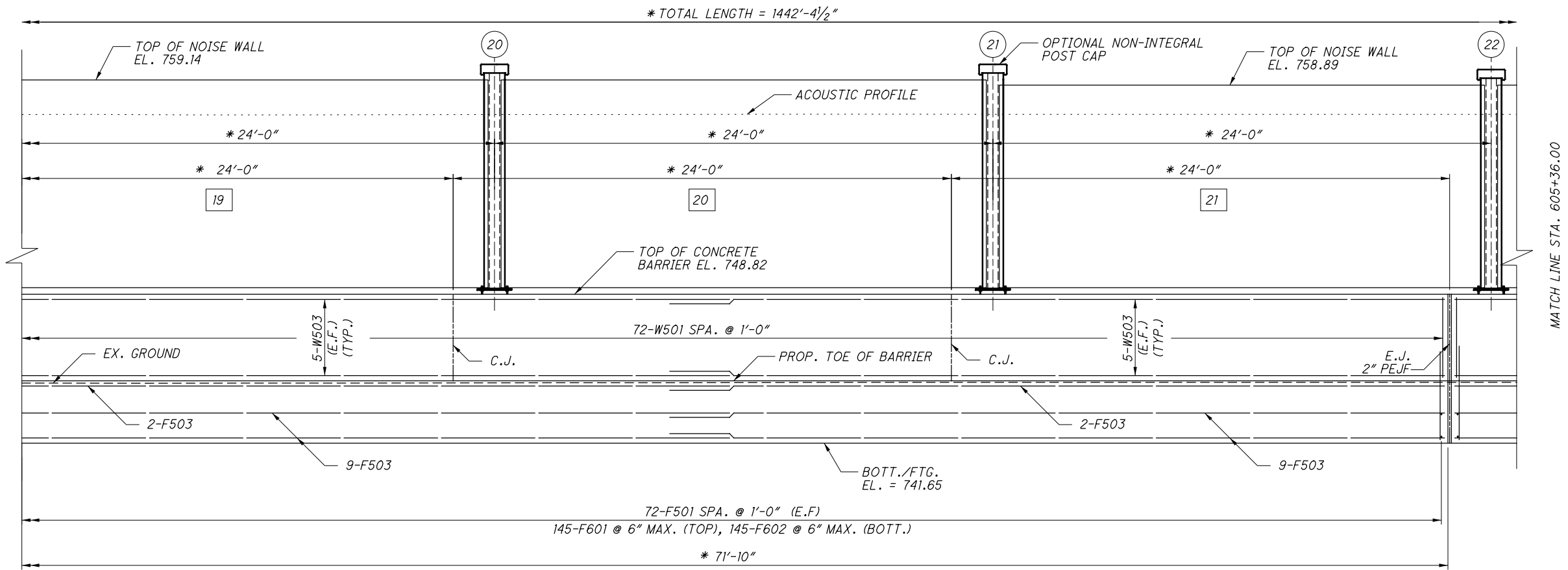
- #5 BARS - 37"
- #6 BARS - 48"

NOTES:

1. SEE SHEET 16 OF 21 FOR SECTION VIEWS.
 2. SEE SHEET 4 OF 21 FOR GENERAL NOTES
 3. SEE SHEETS 15 OF 21 AND 17 OF 21 FOR GENERAL DETAILS.
 4. SEE SHEET 18 OF 21 FOR BARRIER INLET DETAILS.
- * MEASUREMENTS ALONG CENTERLINE OF WALL.
- ** FIELD CUT BARS AT FOOTING NOTCH AS NECESSARY TO PROVIDE 2" MIN. CLR.
- *** FOOTING NOTCH DIMENSIONS

	DESIGN AGENCY IBI GROUP 8101 North High Street Columbus, OH 43235 Tel: 614.616.6101 ibigroup.com
DATE 07/20/18	REVISIONS SRB STRUCTURE FILE NUMBER N/A
DESIGNED AIS	CHECKED SS
WALL 6 ELEVATION WALL 6, CIP CONCRETE WALL	
FRA-315-7.13 PID No. 106877	
7 / 21	
61 80	

MATCH LINE STA. 604+64.00, SEE SHEET 7 OF 21

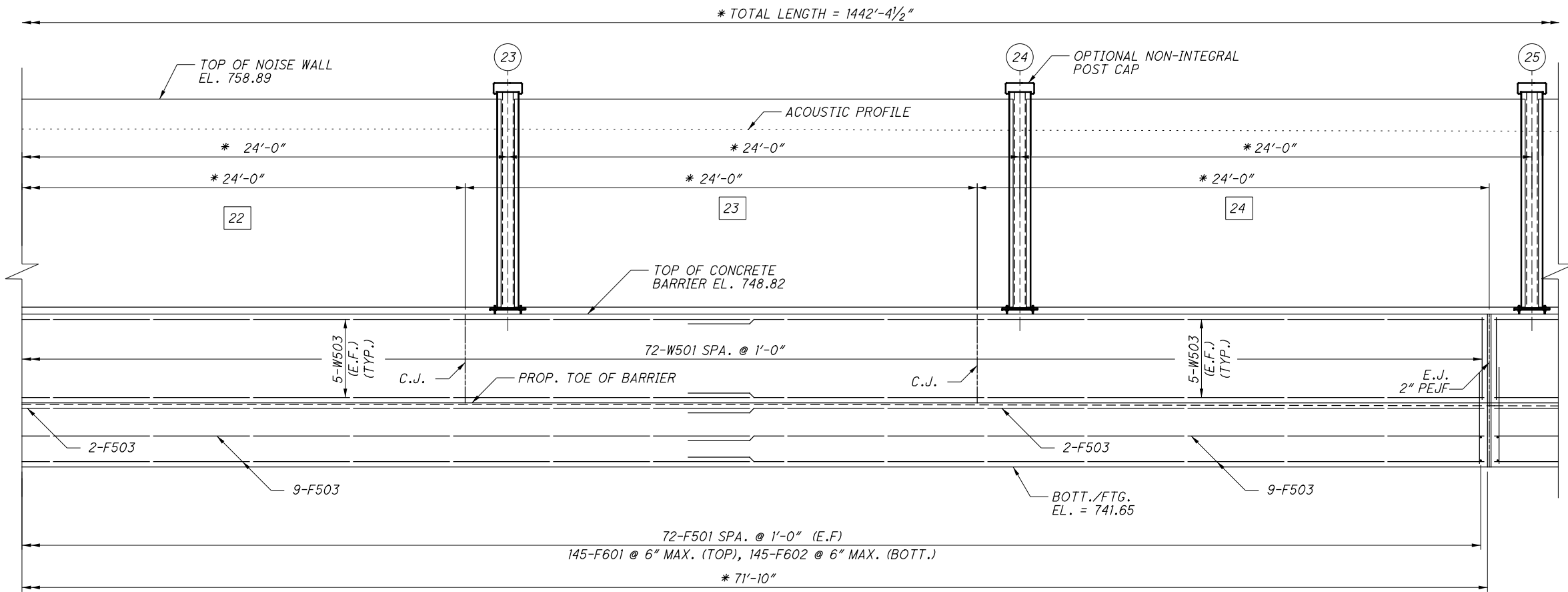


PARTIAL ELEVATION

MINIMUM LAP LENGTHS:
 #5 BARS - 37"
 #6 BARS - 48"

- NOTES:**
1. SEE SHEET 16 OF 21 FOR SECTION VIEWS.
 2. SEE SHEET 4 OF 21 FOR GENERAL NOTES
 3. SEE SHEETS 15 OF 21 AND 17 OF 21 FOR GENERAL DETAILS.
- * MEASUREMENTS ALONG CENTERLINE OF WALL

MATCH LINE STA. 605+36.00



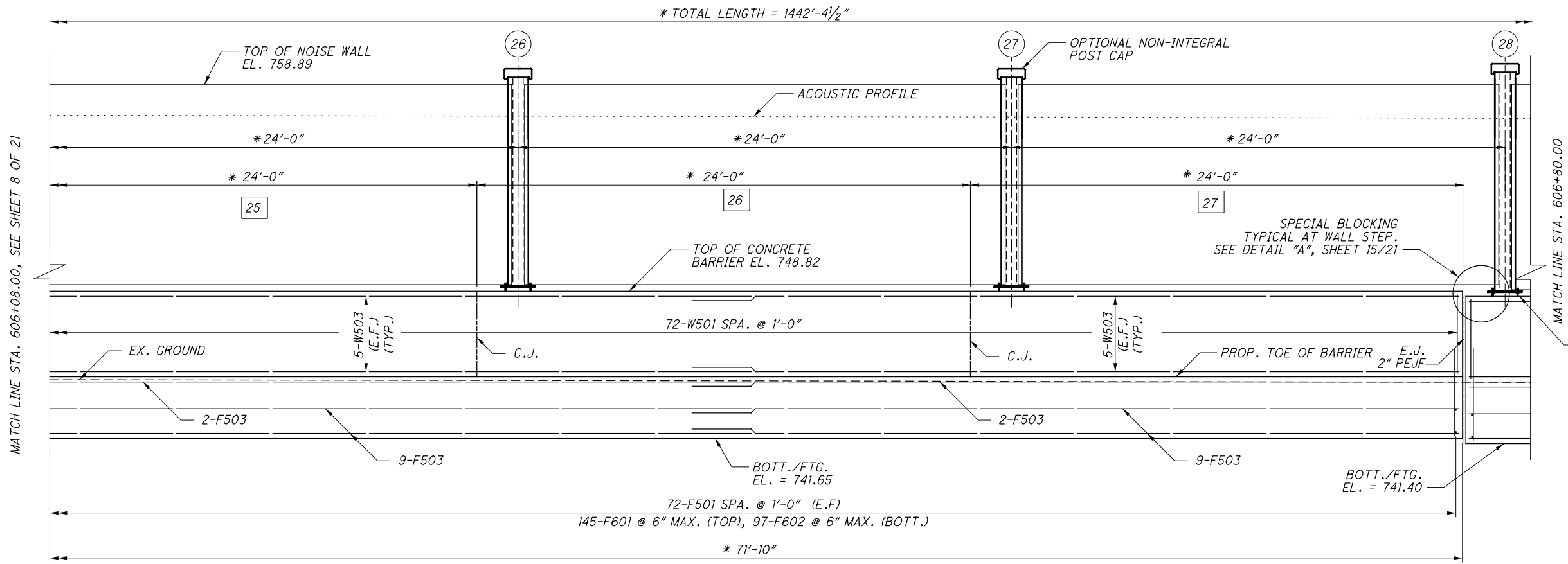
PARTIAL ELEVATION

LEGEND:

(X) - POST NUMBER

[X] - PANEL NUMBER

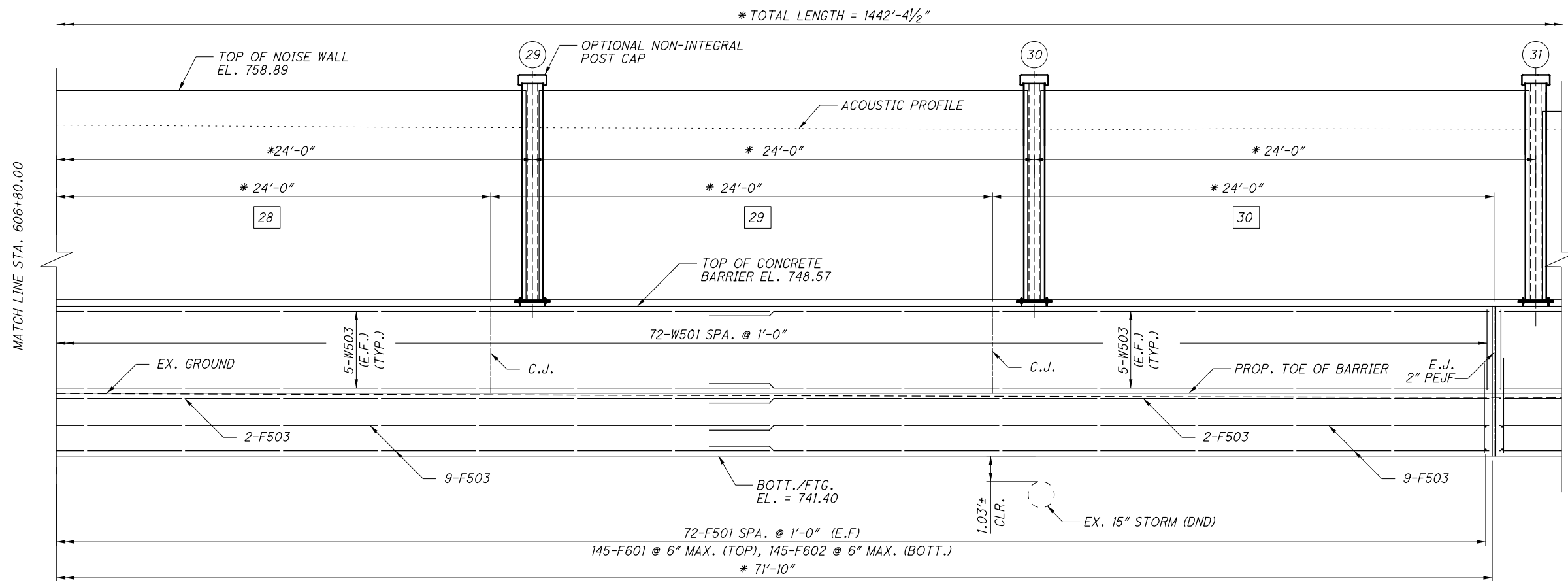
DESIGNED AIS	CHECKED SS	DRAWN AIS	REVIEWED SRB	DATE 07/20/18	DESIGN AGENCY IBI GROUP 8101 North High Street Columbus, OH 43235 Tel: 614.890.1000 Fax: 614.816.1001 ibi@ibigroup.com
STRUCTURE FILE NUMBER N/A		STRUCTURE FILE NUMBER N/A		IBI	
WALL 6 ELEVATION					
WALL 6, CIP CONCRETE WALL					
FRA-315-7.13		PID No. 106877			
8 / 21		62 / 80			
E-3498					



PARTIAL ELEVATION

MINIMUM LAP LENGTHS:
 #5 BARS - 37"
 #6 BARS - 48"

- NOTES:**
1. SEE SHEET 16 OF 21 FOR SECTION VIEWS.
 2. SEE SHEET 4 OF 21 FOR GENERAL NOTES
 3. SEE SHEETS 15 OF 21 AND 17 OF 21 FOR GENERAL DETAILS.
- * MEASUREMENTS ALONG CENTERLINE OF WALL



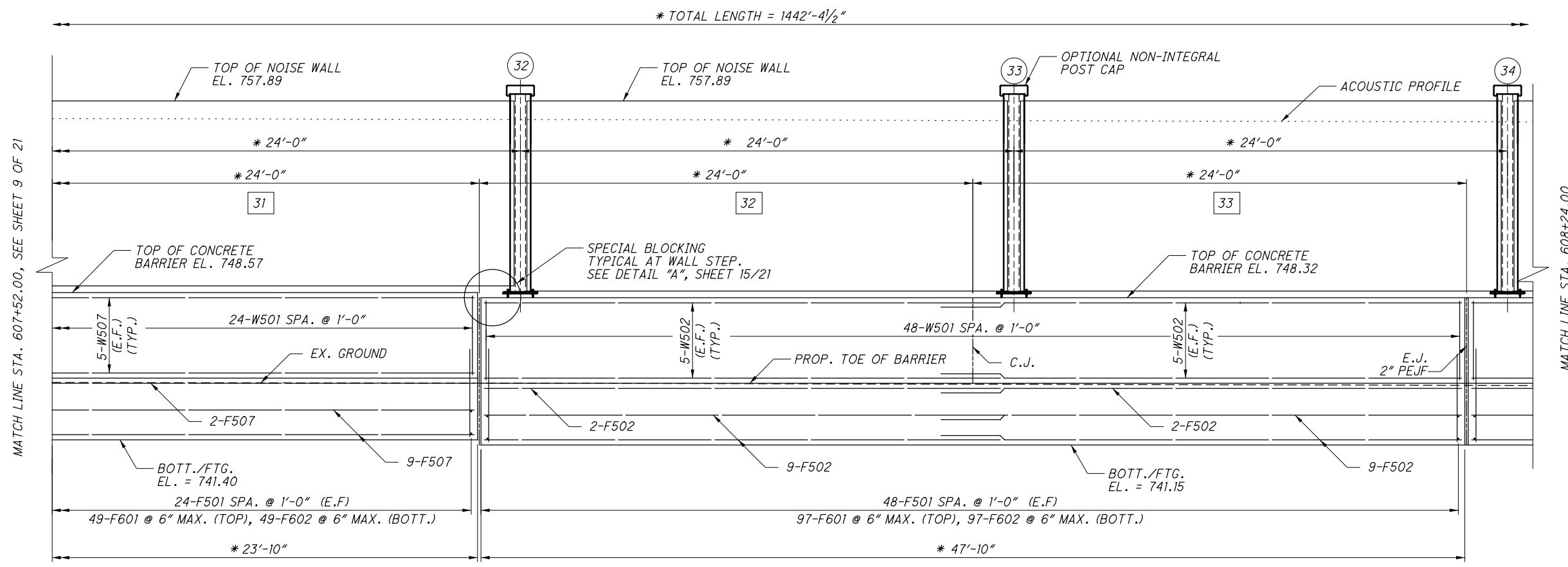
PARTIAL ELEVATION

LEGEND:

(X) - POST NUMBER
 [X] - PANEL NUMBER

MATCH LINE STA. 606+80.00 (left)
 MATCH LINE STA. 607+52.00, SEE SHEET 10 OF 21 (right)

DESIGN AGENCY IBI GROUP 8101 North High Street Columbus, OH 43235 Tel: 614.890.1000 Fax: 614.816.1001 http://www.ibigroup.com	
DESIGNED AIS	CHECKED SS
DRAWN AIS	REVIEWED SRB
DATE 07/20/18	STRUCTURE FILE NUMBER N/A
IBI	
WALL 6 ELEVATION	
WALL 6, CIP CONCRETE WALL	
FRA-315-7.13 PID No. 106877	
9 / 21	
63 80	



PARTIAL ELEVATION

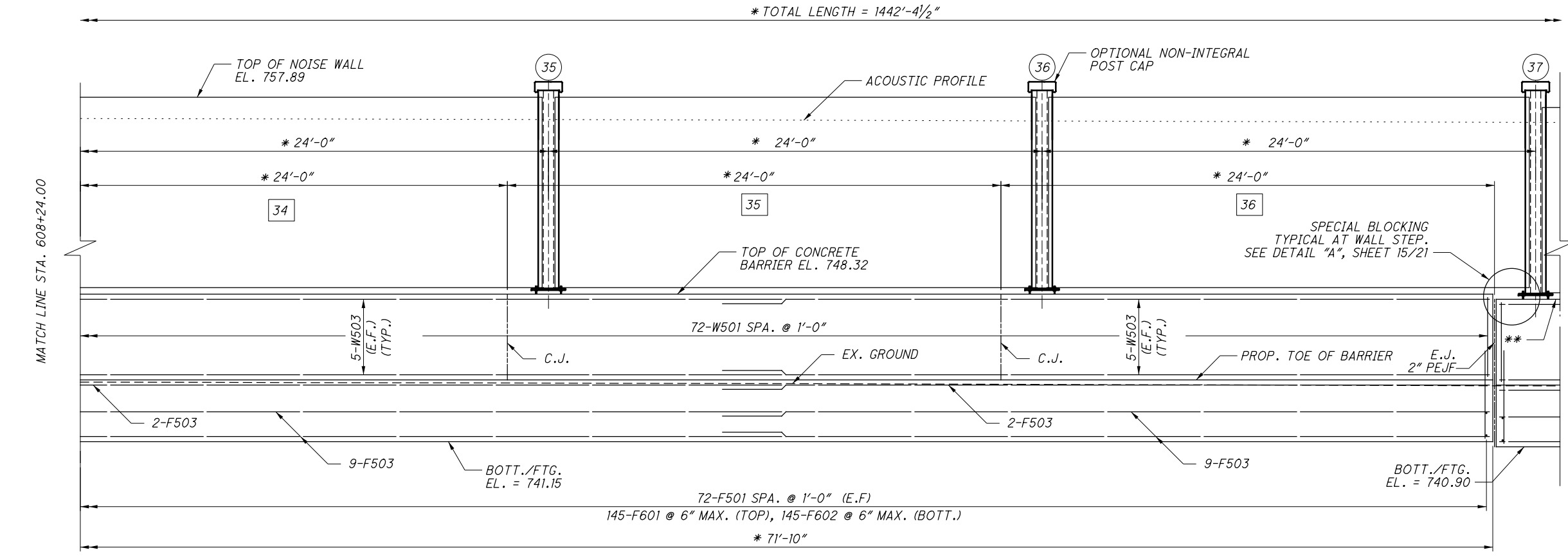
MINIMUM LAP LENGTHS:
 #5 BARS - 37"
 #6 BARS - 48"

- NOTES:**
- SEE SHEET 16 OF 21 FOR SECTION VIEWS.
 - SEE SHEET 4 OF 21 FOR GENERAL NOTES
 - SEE SHEETS 15 OF 21 AND 17 OF 21 FOR GENERAL DETAILS.
- * MEASUREMENTS ALONG CENTERLINE OF WALL

LEGEND:

(X) - POST NUMBER
 [X] - PANEL NUMBER

** TOP OF CONCRETE BARRIER EL. 748.07



PARTIAL ELEVATION

MATCH LINE STA. 607+52.00, SEE SHEET 9 OF 21

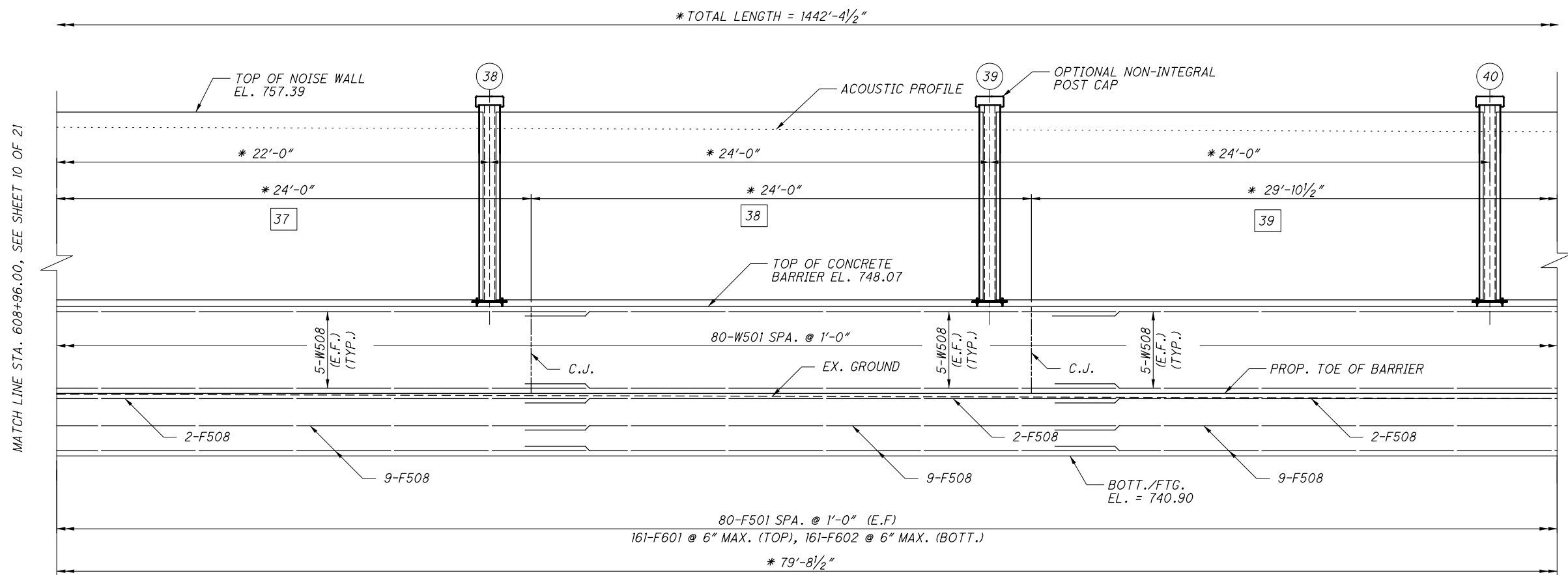
MATCH LINE STA. 608+24.00

MATCH LINE STA. 608+24.00

MATCH LINE STA. 608+96.00, SEE SHEET 11 OF 21

DESIGN AGENCY IBI GROUP 8101 North High Street Columbus, OH 43235 Tel: 614.880.1800 Fax: 614.816.1801 http://www.ibigroup.com
IBI
DESIGNED AIS
CHECKED SS
DRAWN AIS
REVIEWED SRB
DATE 07/20/18
STRUCTURE FILE NUMBER N/A
WALL 6 ELEVATION WALL 6, CIP CONCRETE WALL
FRA-315-7.13 PID No. 106877
10 / 21
64 80

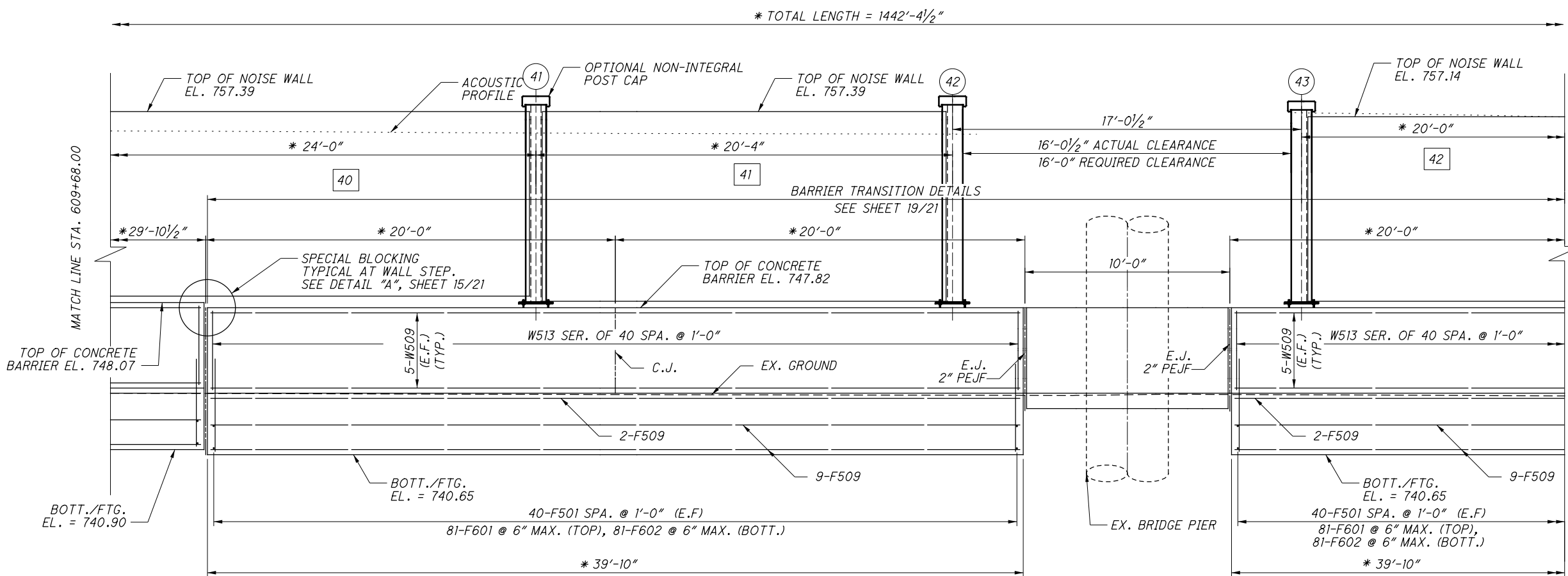
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PARTIAL ELEVATION

MINIMUM LAP LENGTHS:
 #5 BARS - 37"
 #6 BARS - 48"

- NOTES:**
- SEE SHEET 16 OF 21 FOR SECTION VIEWS.
 - SEE SHEET 4 OF 21 FOR GENERAL NOTES
 - SEE SHEETS 15 OF 21 AND 17 OF 21 FOR GENERAL DETAILS.
- * MEASUREMENTS ALONG CENTERLINE OF WALL



PARTIAL ELEVATION

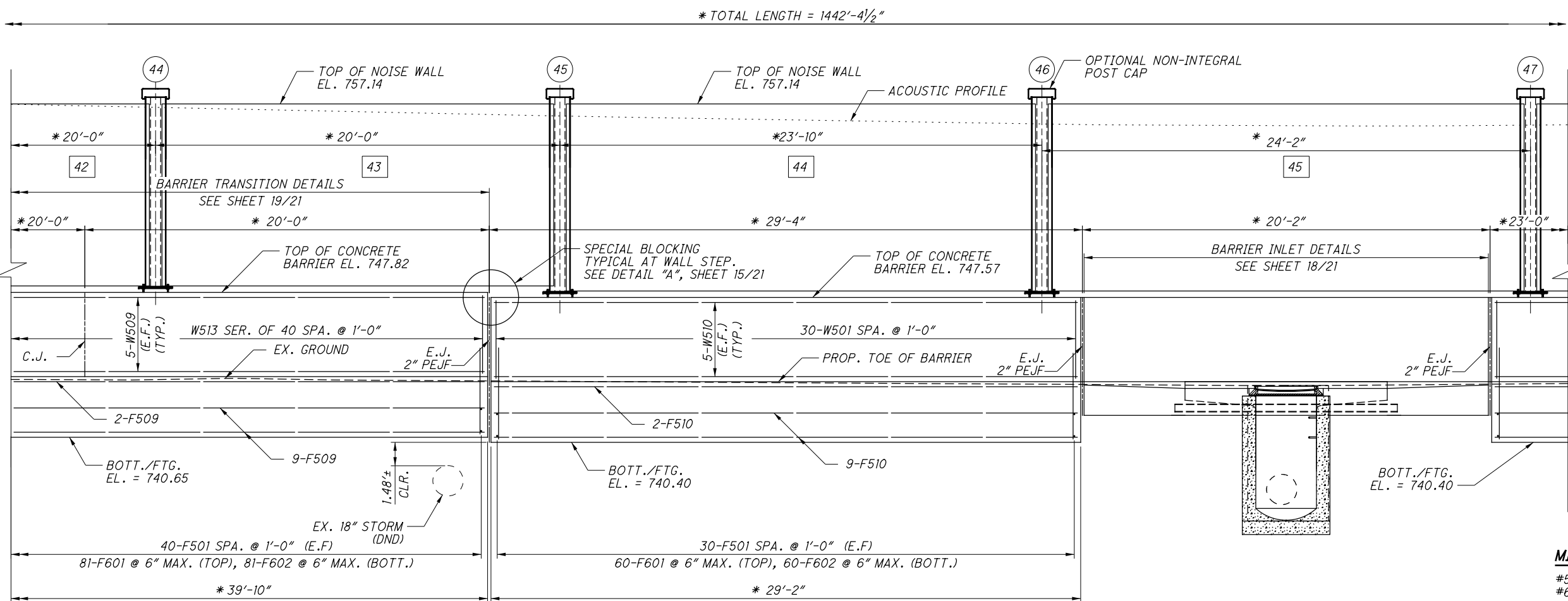
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(X) - POST NUMBER

[X] - PANEL NUMBER

DESIGN AGENCY IBI GROUP 8101 North High Street Columbus, OH 43235 Tel: 614.880.1800 Fax: 614.880.1801 http://www.ibigroup.com	DATE 07/20/18	DESIGNED AIS	DRAWN AIS	REVIEWED SRB	STRUCTURE FILE NUMBER N/A
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WALL 6, CIP CONCRETE WALL					
FRA-315-7.13 PID No. 106877					
11 / 21					
65 80					

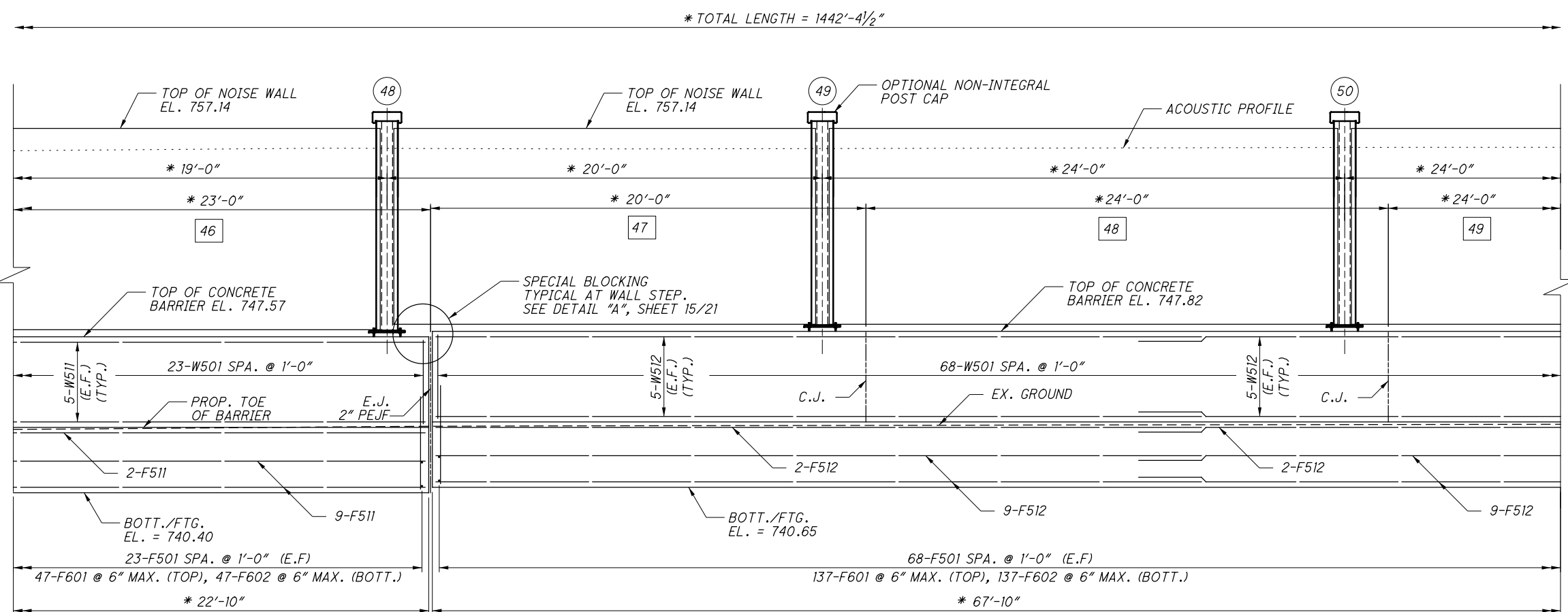
MATCH LINE STA. 610+39.00, SEE SHEET 11 OF 21



PARTIAL ELEVATION

MINIMUM LAP LENGTHS:
 #5 BARS - 37"
 #6 BARS - 48"

MATCH LINE STA. 611+16.00



PARTIAL ELEVATION

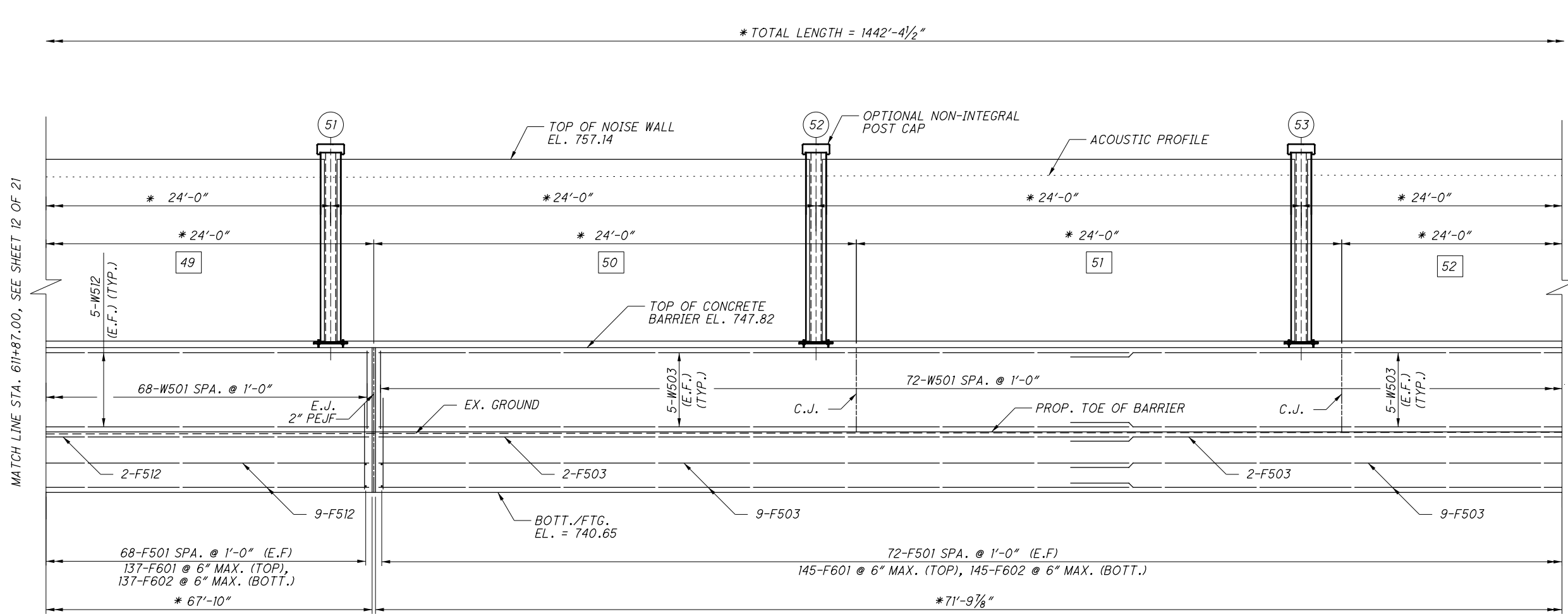
MATCH LINE STA. 611+87.00, SEE SHEET 13 OF 21

LEGEND:
 (X) - POST NUMBER
 [X] - PANEL NUMBER

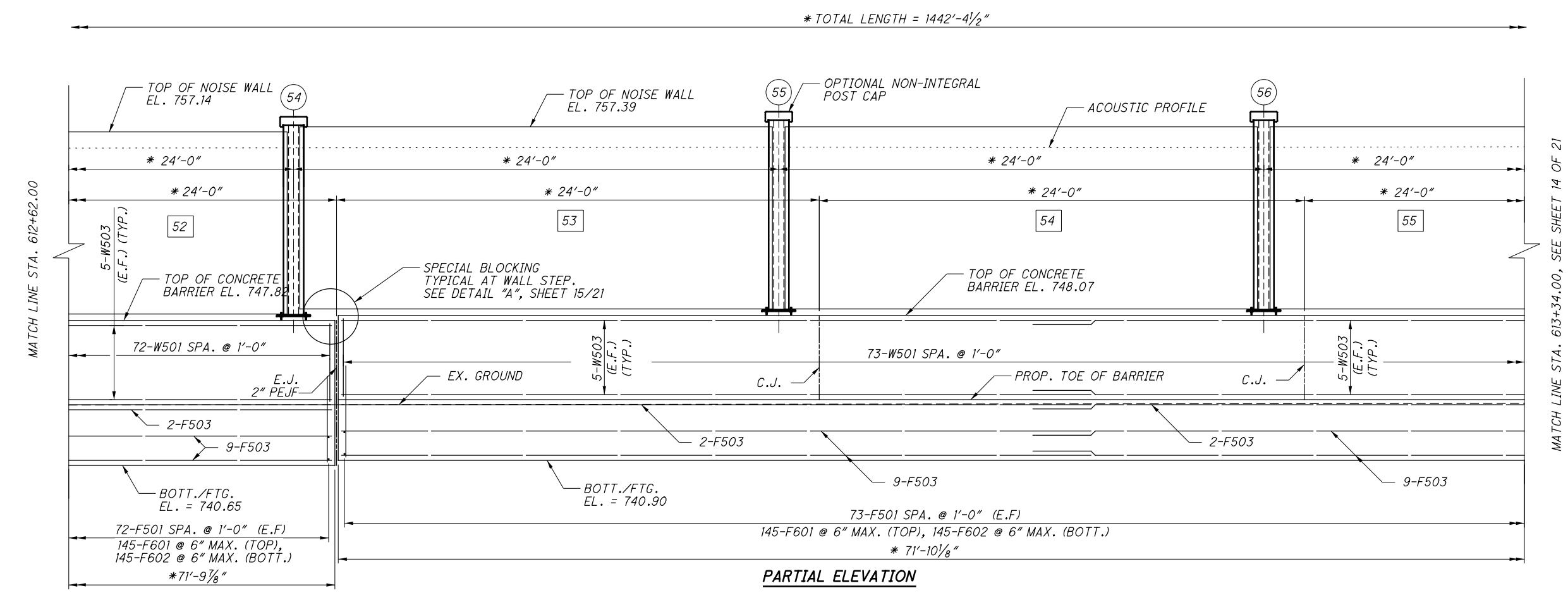
NOTES:
 1. SEE SHEET 16 OF 21 FOR SECTION VIEWS.
 2. SEE SHEET 4 OF 21 FOR GENERAL NOTES
 3. SEE SHEETS 15 OF 21 AND 17 OF 21 FOR GENERAL DETAILS.
 4. SEE SHEET 18 OF 21 FOR BARRIER INLET DETAILS.
 * MEASUREMENTS ALONG CENTERLINE OF WALL

DESIGN AGENCY IBI GROUP 8101 North High Street Columbus, OH 43235 Tel: 614.880.1000 Fax: 614.880.1001 ibigroup.com	DATE 07/20/18	DESIGNED AIS	DRAWN AIS	REVIEWED SRB	DATE 07/20/18	DESIGNED AIS	DRAWN AIS	REVIEWED SRB
IBI	STRUCTURE FILE NUMBER N/A	CHECKED SS	STRUCTURE FILE NUMBER N/A	STRUCTURE FILE NUMBER N/A	STRUCTURE FILE NUMBER N/A	CHECKED SS	STRUCTURE FILE NUMBER N/A	STRUCTURE FILE NUMBER N/A
WALL 6 ELEVATION					WALL 6, CIP CONCRETE WALL			
FRA-315-7.13					PID No. 106877			
12 / 21					66 / 80			

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PARTIAL ELEVATION



PARTIAL ELEVATION

MINIMUM LAP LENGTHS:
 #5 BARS - 37"
 #6 BARS - 48"

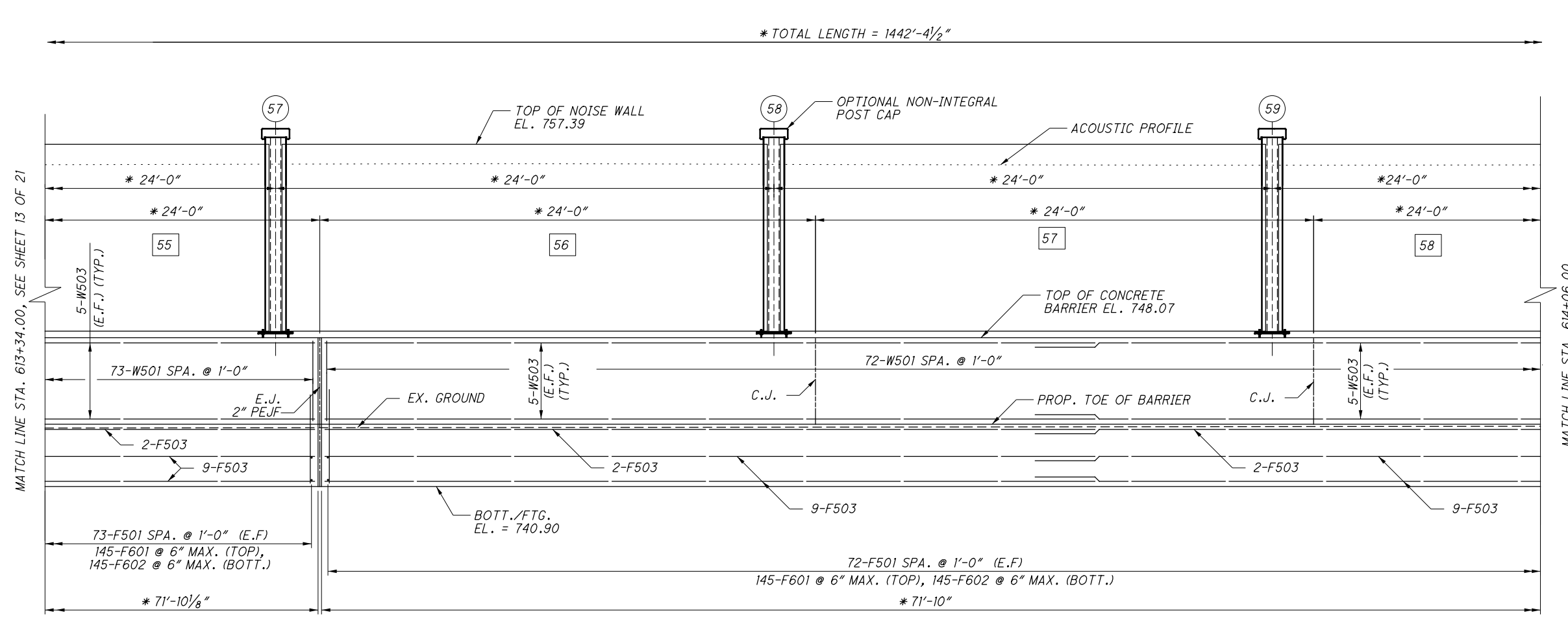
MATCH LINE STA. 612+62.00

- NOTES:**
- SEE SHEET 16 OF 21 FOR SECTION VIEWS.
 - SEE SHEET 4 OF 21 FOR GENERAL NOTES
 - SEE SHEETS 15 OF 21 AND 17 OF 21 FOR GENERAL DETAILS.
- * MEASUREMENTS ALONG CENTERLINE OF WALL

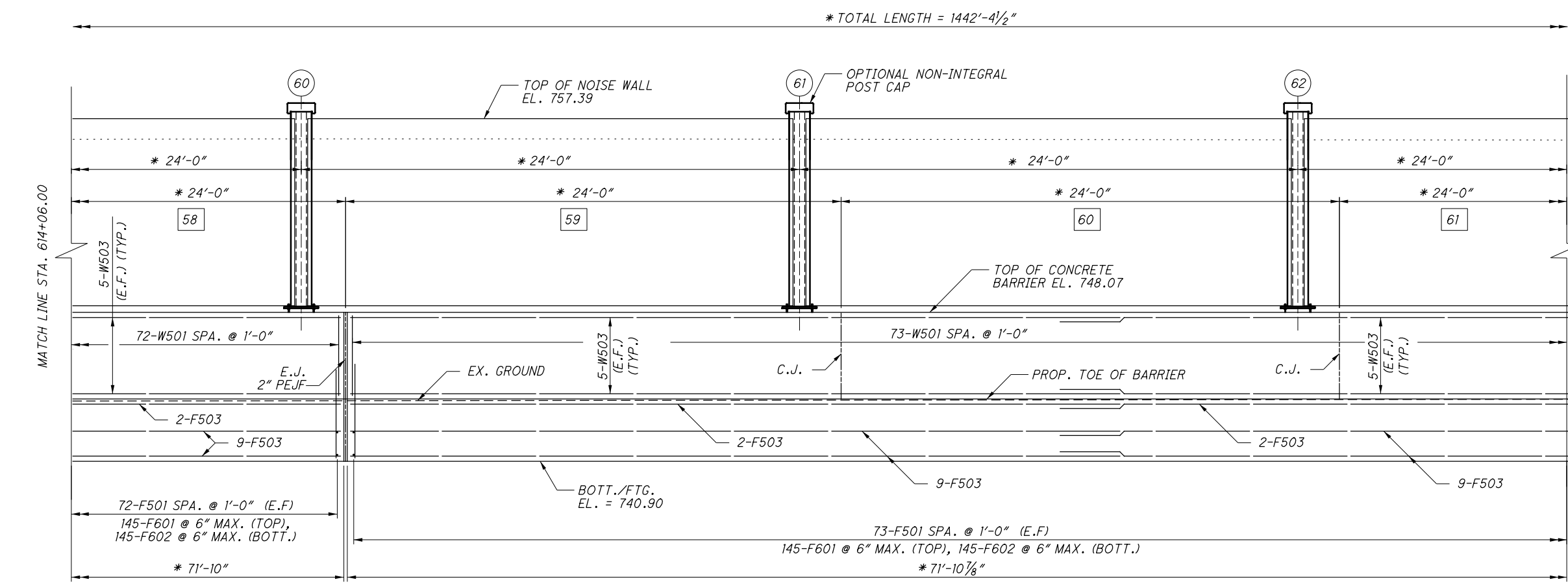
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(X) - POST NUMBER
 [X] - PANEL NUMBER

DESIGNED AIS	DRAWN AIS	REVIEWED SRB	DATE 07/20/18	DESIGN AGENCY IBI GROUP 8101 North High Street Columbus, OH 43235 Tel: 614.890.1800 Fax: 614.890.1801 http://www.ibigroup.com
CHECKED SS	REVISION FILE NUMBER	STRUCTURE FILE NUMBER	N/A	
WALL 6 ELEVATION				
WALL 6, CIP CONCRETE WALL				
FRA-315-7.13				
PID No. 106877				
13 / 21				
67 / 80				



PARTIAL ELEVATION



PARTIAL ELEVATION

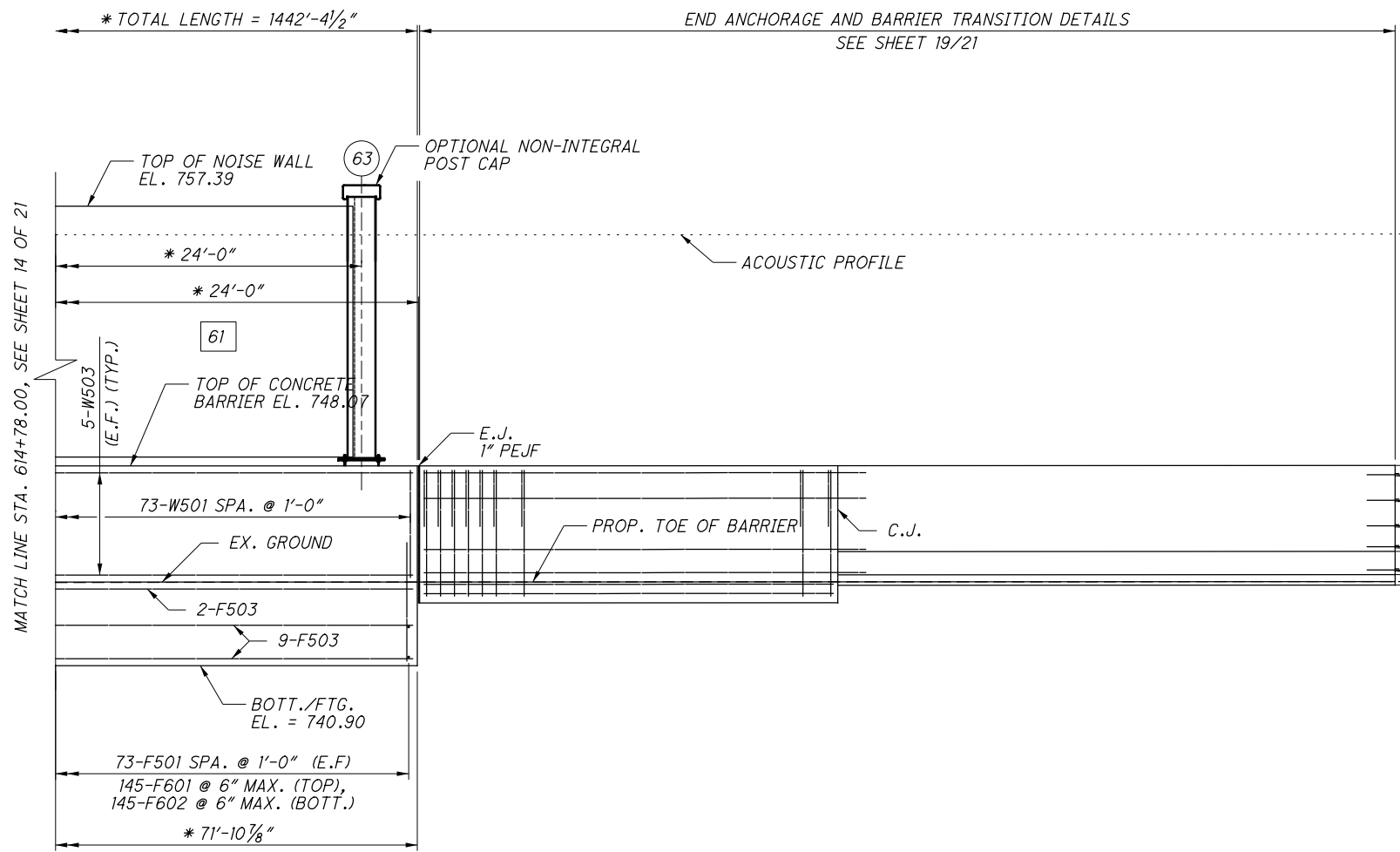
MINIMUM LAP LENGTHS:
 #5 BARS - 37"
 #6 BARS - 48"

- NOTES:**
- SEE SHEET 16 OF 21 FOR SECTION VIEWS.
 - SEE SHEET 4 OF 21 FOR GENERAL NOTES
 - SEE SHEETS 15 OF 21 AND 17 OF 21 FOR GENERAL DETAILS.
- * MEASUREMENTS ALONG CENTERLINE OF WALL

LEGEND:

(X) - POST NUMBER
 [X] - PANEL NUMBER

	DESIGN AGENCY IBI GROUP 8101 North High Street Columbus, OH 43235 Tel: 614.890.1400 Fax: 614.816.1001 ibi@ibigroup.com
WALL 6 ELEVATION WALL 6, CIP CONCRETE WALL	DATE: 07/20/18 REVISIONS: SRB STRUCTURE FILE NUMBER: N/A
FRA-315-7.13 PID No. 106877	DESIGNED: AIS CHECKED: SS DRAWN: AIS REVISED:
14 / 21 68 / 80	E-3498

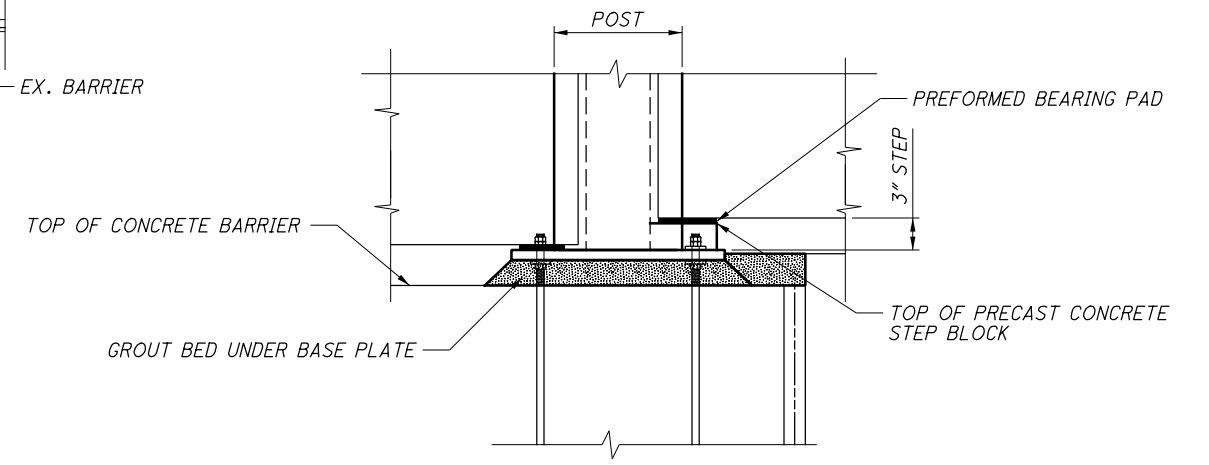
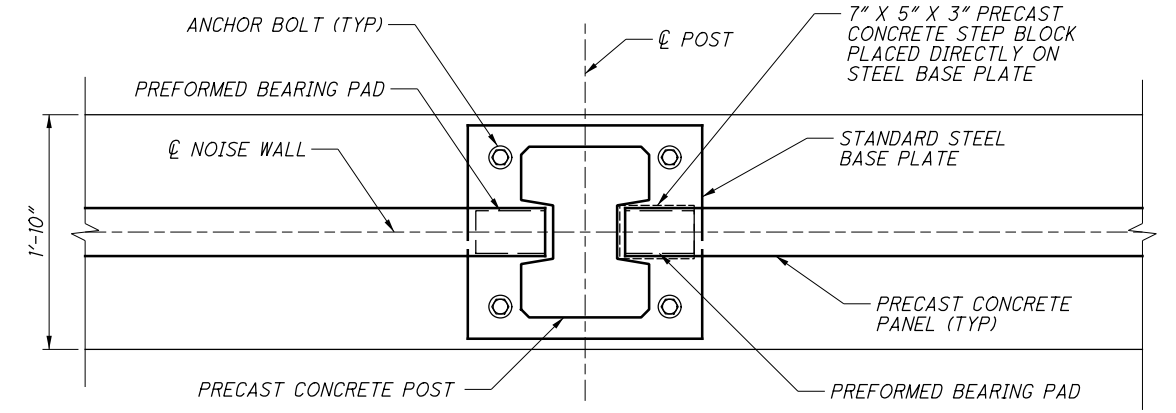


PARTIAL ELEVATION

NOTES:

1. SEE SHEET 16 OF 21 FOR SECTION VIEWS.
 2. SEE SHEET 4 OF 21 FOR GENERAL NOTES
 3. SEE SHEETS 15 OF 21 AND 17 OF 21 FOR GENERAL DETAILS.
 4. SEE SHEET 19 OF 21 FOR BARRIER TRANSITION DETAILS
 5. CLOSURE PLATES SHALL MATCH PANEL COLOR. THE CONTRACTOR HAS THE OPTION TO MODIFY PANELS TO ELIMINATE THE CLOSURE PLATE.
 6. ALL LABOR AND MATERIALS, SUCH AS CLOSURE PLATES, ADHESIVE ANCHORS, STEEL POSTS AND ATTACHMENTS SHALL BE INCLUDED WITH ITEM 622, SPECIAL - NOISE BARRIER: BARRIER MOUNTED NOISE WALL
 7. THE DESIGN HEIGHT FOR THE PRECAST PANELS SHALL BE ROUNDED UP.
- * MEASUREMENTS ALONG CENTERLINE OF WALL

END ANCHORAGE AND BARRIER TRANSITION DETAILS
SEE SHEET 19/21



DETAIL "A"

PANEL SEAT PLAN AND ELEVATION
WITH NON-INTEGRAL STEP BLOCK
SEE STANDARD CONSTRUCTION DRAWING
NBS-1-09 FOR ADDITIONAL DETAILS

MINIMUM LAP LENGTHS:

- #5 BARS - 37"
- #6 BARS - 48"

LEGEND:

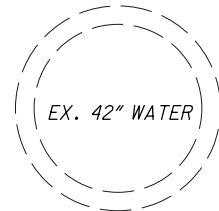
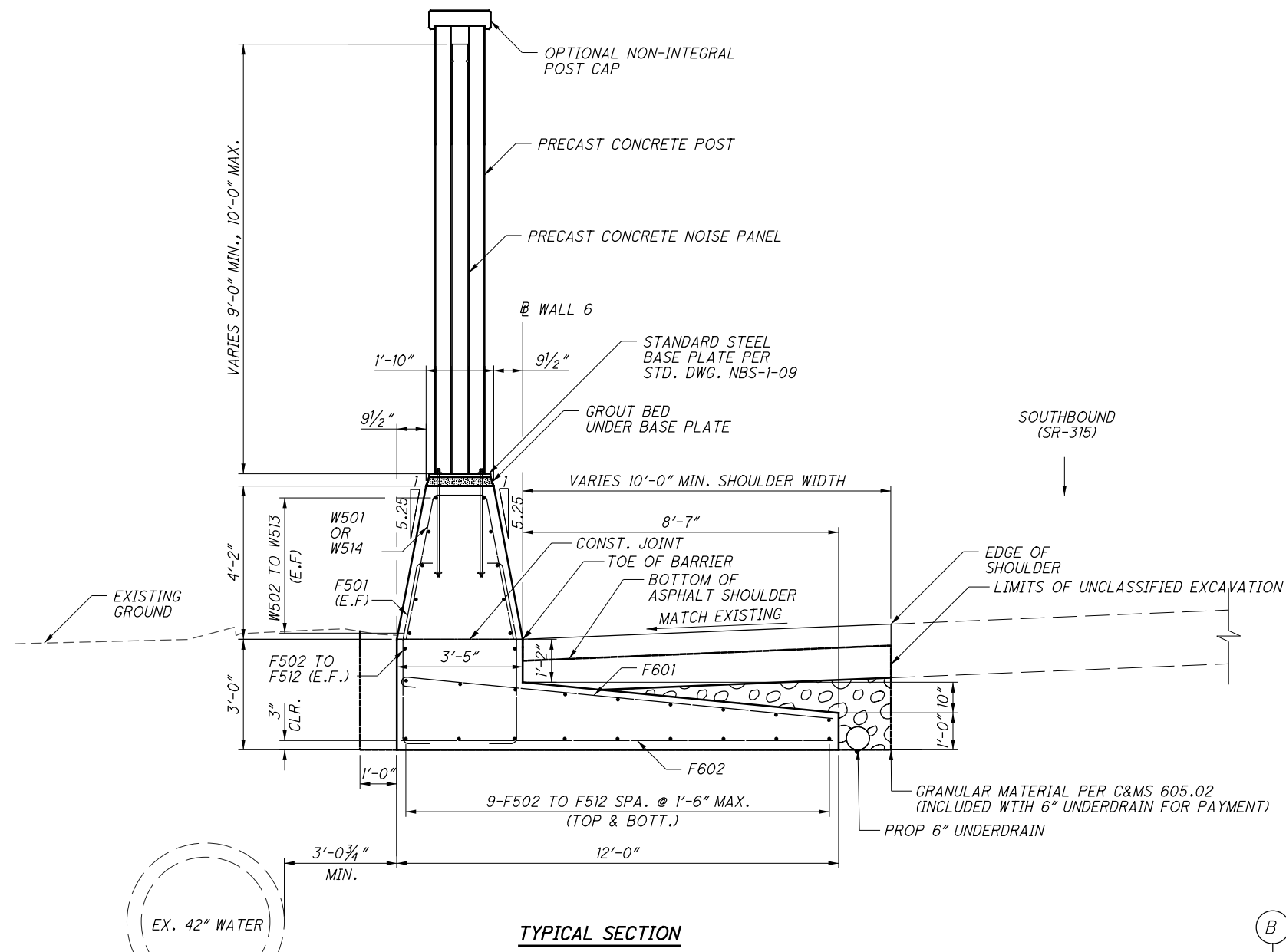
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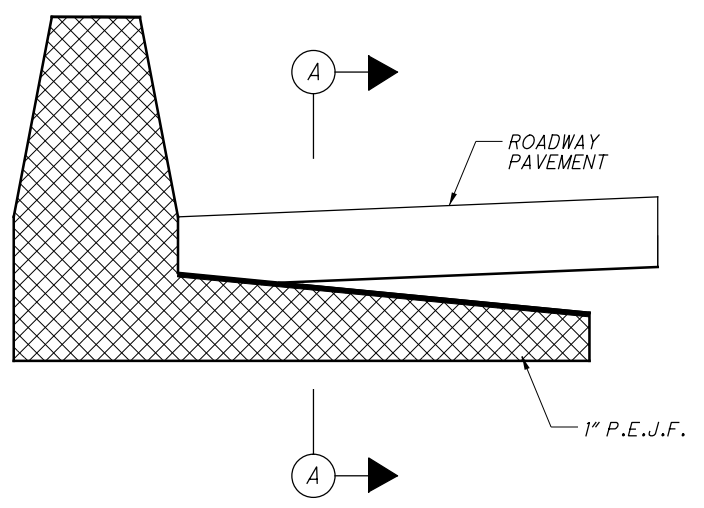
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DRAWN	AI5	REVIEWED	SRB
DATE	07/20/18	STRUCTURE FILE NUMBER	N/A

WALL 6 ELEVATION
WALL 6, CIP CONCRETE WALL

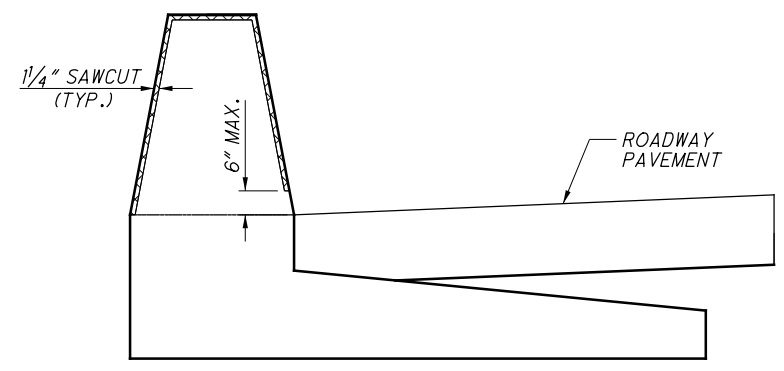
FRA-315-7.13
PID No. 106877



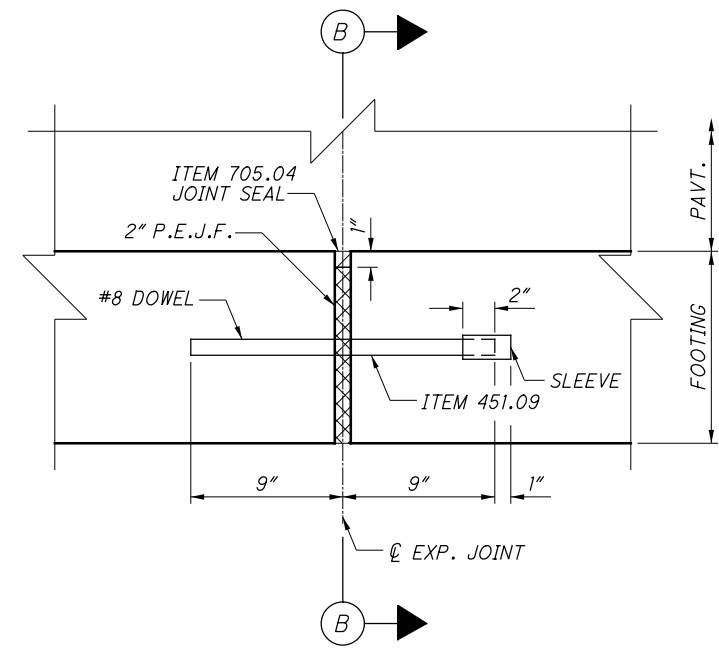
TYPICAL SECTION



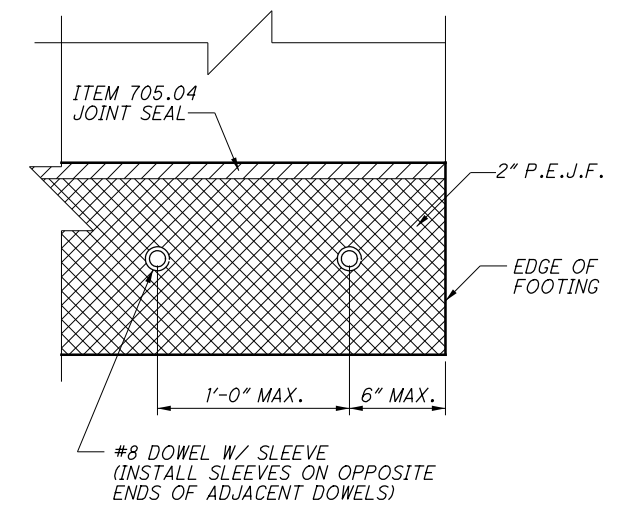
BARRIER AT EXPANSION JOINT



BARRIER AT CONTRACTION JOINT



SECTION A-A



SECTION B-B

NOTES:

1. CONTRACTION JOINT: SAWCUT 1/4" DEEP CONTROL JOINT ALONG THE PERIMETER AS SHOWN ON THIS SHEET AS SOON AS THE SAW CAN BE OPERATED WITHOUT DAMAGING THE CONCRETE.
USE AN EDGE GUIDE, FENCE OR JIG TO ENSURE THAT THE CUT JOINT IS STRAIGHT, TRUE AND ALIGNED ON ALL FACES OF THE BARRIER. THE JOINT WIDTH SHALL BE THE WIDTH OF THE SAW BLADE, A NOMINAL WIDTH OF 1/4".
SEAL THE PERIMETER OF THE CONTROL JOINT TO A MINIMUM DEPTH OF 1" WITH A POLYURETHANE OR POLYMERIC MATERIAL CONFORMING TO ASTM C920, TYPE S. LEAVE THE BOTTOM 1/2" OF BOTH THE INSIDE AND OUTSIDE FACES OF THE BARRIER UNSEALED TO ALLOW ANY WATER WHICH MAY ENTER THE JOINT TO ESCAPE.
2. MINIMUM BAR LAPS:
#5 BARS - 37"
#6 BARS - 48"
3. PROVIDE INLET WINDOW IN ACCORDANCE WITH THE DETAILS SHOWN SHEET 18/21 AT THE FOLLOWING LOCATIONS:
STA. 603+78.03
OFFSET 1.58' RT.
@ WALL 6

STA. 611+02.07
OFFSET 1.58' RT.
@ WALL 6
4. ALL BARRIER AND FOOTING CONCRETE SHALL MEET THE REQUIREMENTS OF CLASS QC1 CONCRETE WITH QC/OA.
5. THE CONCRETE BARRIER FOR WALL 6 SHALL BE CAST IN PLACE.

DESIGN AGENCY IBI GROUP 8101 North High Street Columbus, OH 43235 614.880.1800 fax 614.816.1801 http://www.ibigroup.com	DATE 07/20/18	REVIEWED SRB	DESIGNED AIS	DRAWN AIS	CHECKED SS
IBI	STRUCTURE FILE NUMBER N/A	REVISED		REVISED	
BARRIER DETAILS WALL 6, CIP CONCRETE WALL					
FRA-315-7.13 PID No. 106877					
16 / 21					
70 80					

NOTES:

1. DRILLED AND GROUTED ANCHORS ARE PERMISSIBLE FOR THE CLOSURE ANGLES ONLY. USE AN ANCHOR ADHESIVE EVALUATED ACCORDING TO ICCES REPORT AC308, "ACCEPTANCE CRITERIA FOR POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE ELEMENTS", FOR CRACKED AND UNCRACKED CONCRETE APPLICATIONS. PUBLISHED ICCES REPORTS FOR ACCEPTABLE PRODUCTS ARE AVAILABLE AT:

WWW.ICC-ES.ORG/EVALUATION_REPORTS/INDEX.SHTML

SELECT FROM ONE OF THE FOLLOWING APPROVED PRODUCTS:

POWERS PE1000+ EPOXY ADHESIVE ANCHOR SYSTEM (ICCES REPORT ESR-2583)

CHEMOFAST C-RE 385 EPOXY ADHESIVE ANCHOR SYSTEM (ICCES REPORT ESR-2538)

SIMPSON STRONG-TIE SET-XP EPOXY ADHESIVE ANCHORS (ICCES REPORT ESR-2508)

WURTH WIT-PE500 EPOXY ADHESIVE ANCHORS (ICCES REPORT ESR-3051)

HILTI-HY 200-R ADHESIVE ANCHOR SYSTEM (ICCES REPORT ESR-3187)

INSTALL ADHESIVE ANCHORS ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PUBLISHED IN SECTION 4.3 OF THE ICCES REPORTS LISTED ABOVE. THE MINIMUM EMBEDMENT DEPTH (HEF) FOR ANCHORS SHALL BE 7".

THE CONTRACTOR SHALL SUPPLY DOCUMENTATION SEALED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER ENSURING THAT THE SELECTED ANCHORAGE PROVIDES SUFFICIENT CAPACITY FOR THIS APPLICATION IN ACCORDANCE WITH AC308. INSTALL ANCHORS ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PUBLISHED IN THE ICCES REPORT.

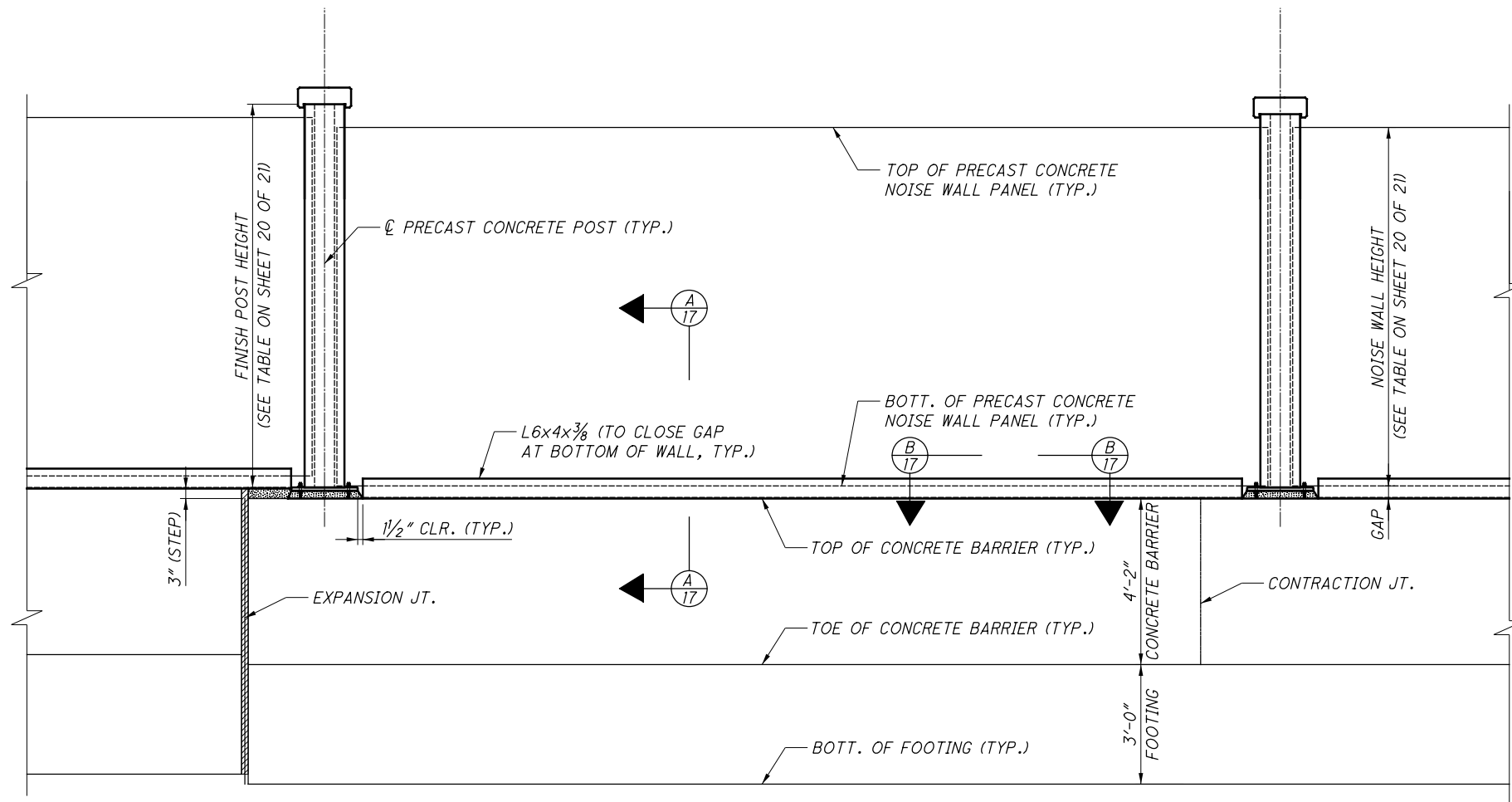
THE ANCHORS MAY BE CAST-IN-PLACE WITH A MINIMUM 7 INCH EMBEDMENT LENGTH.

2. CLOSURE ANGLES SHALL BE ASTM A709, GRADE 36 STEEL, AND MATCH PANEL COLOR. THE CONTRACTOR HAS THE OPTION TO MODIFY PANELS TO ELIMINATE THE CLOSURE ANGLE. MODIFIED PANELS SHALL PROVIDE A TIGHT FIT AT THE TOP OF THE CONCRETE BARRIER AND THE POST BASE PLATE SUCH THAT NO GAP EXISTS.

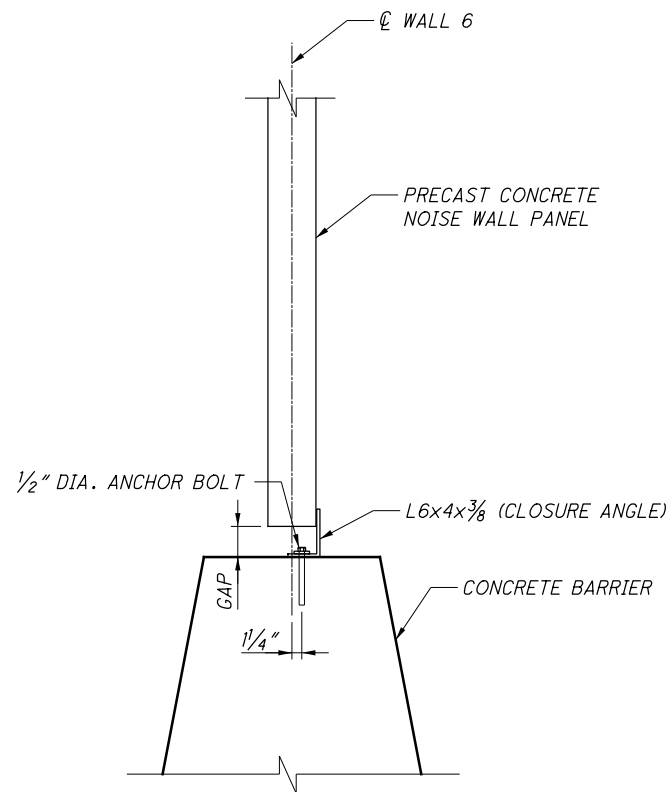
3. CLOSURE ANGLES, ADHESIVE ANCHORS, PRECAST CONCRETE STEP BLOCKS, PREFORMED BEARING PADS, PRECAST CONCRETE NOISE PANELS, PRECAST CONCRETE POSTS, POST CAPS, AND STEEL BASE PLATES AND ATTACHMENTS SHALL BE INCLUDED WITH ITEM 606, SPECIAL - NOISE BARRIER: BARRIER MOUNTED NOISE WALL FOR PAYMENT.

4. ALL POST ANCHORS SHALL BE CAST IN PLACE.

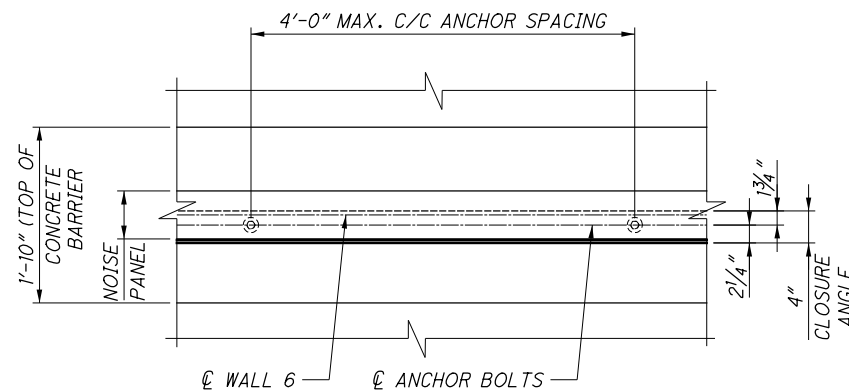
5. GALVANIZE ALL STEEL CLOSURE ANGLES, BASE PLATES, COVER PLATES, ATTACHMENTS, ETC. PER NBS-1-09.



PARTIAL WALL ELEVATION



SECTION A-A



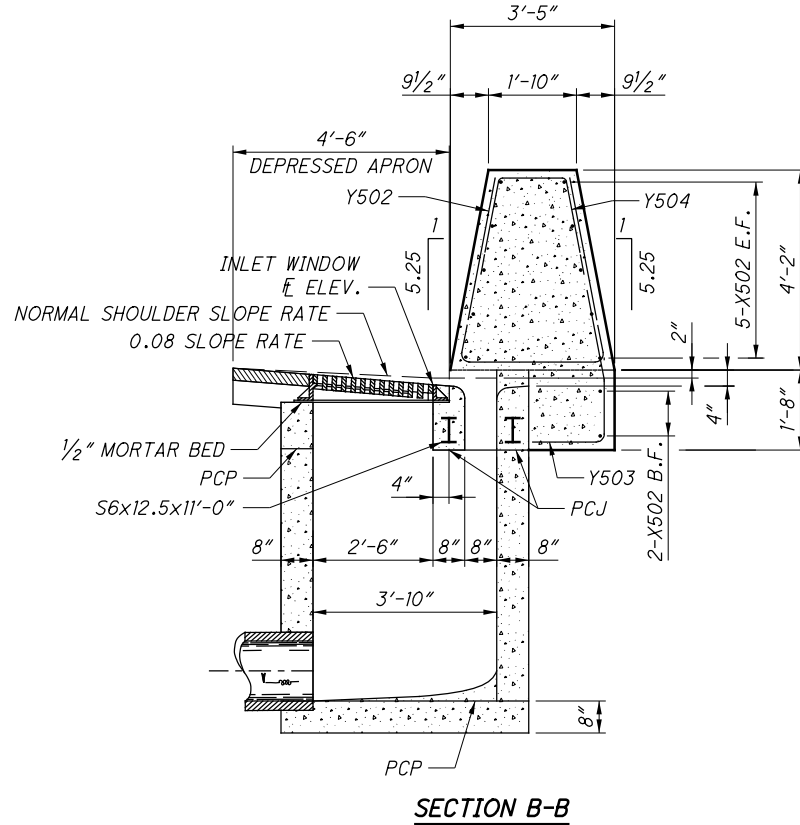
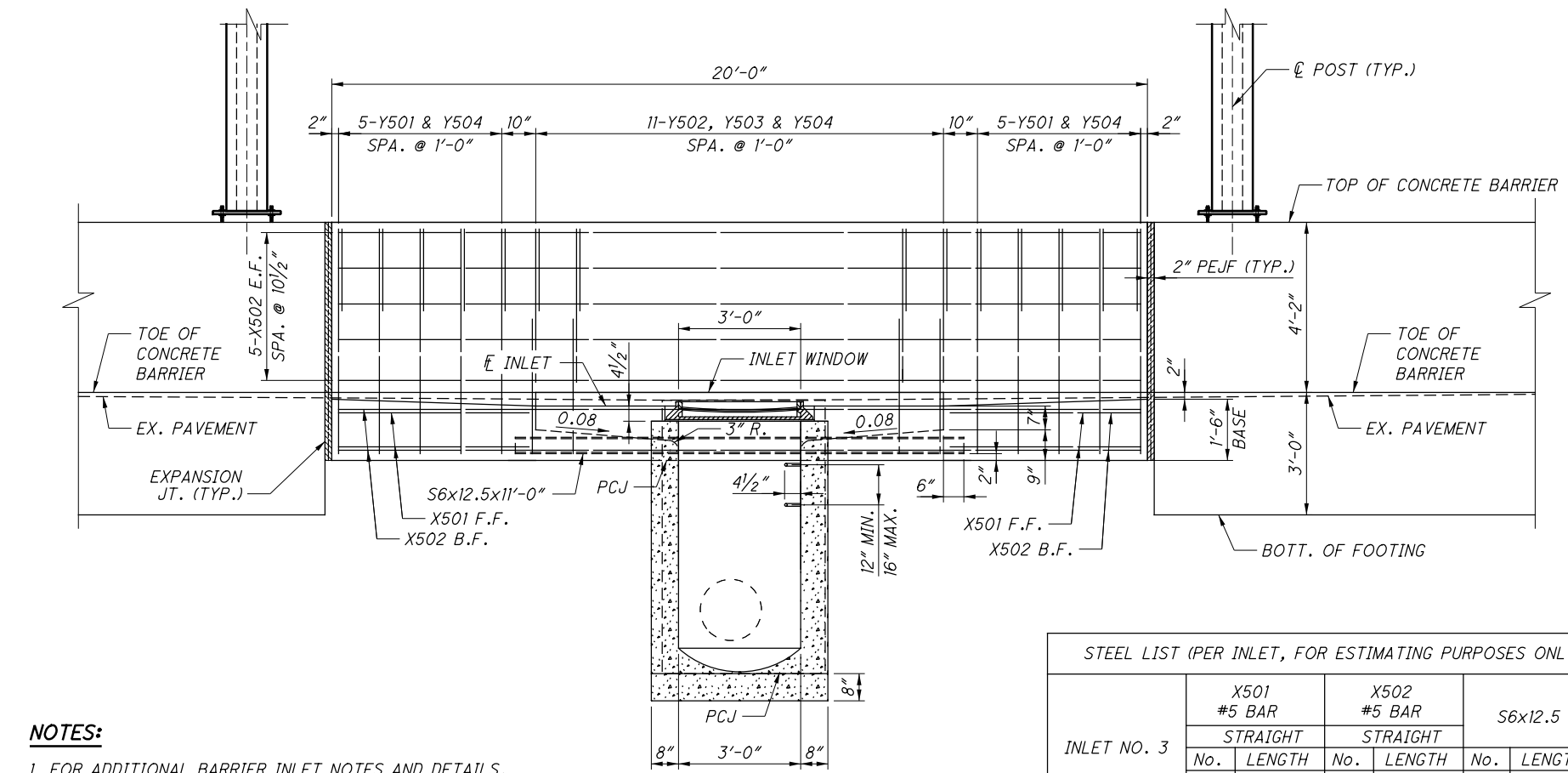
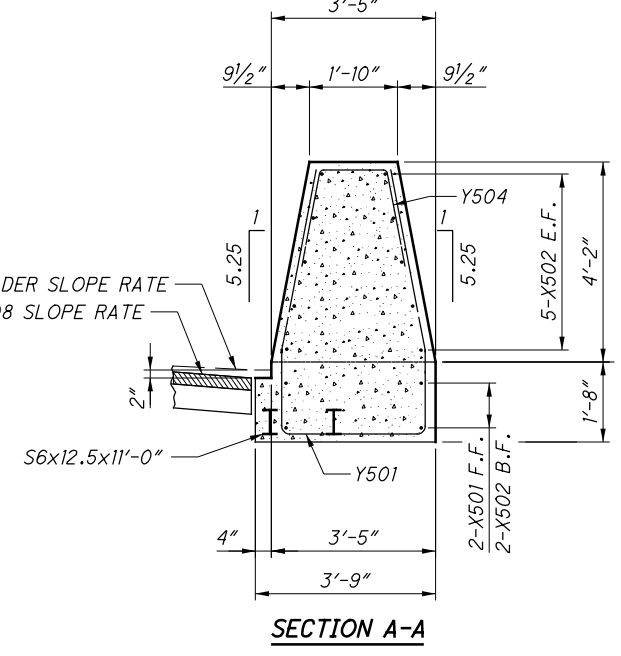
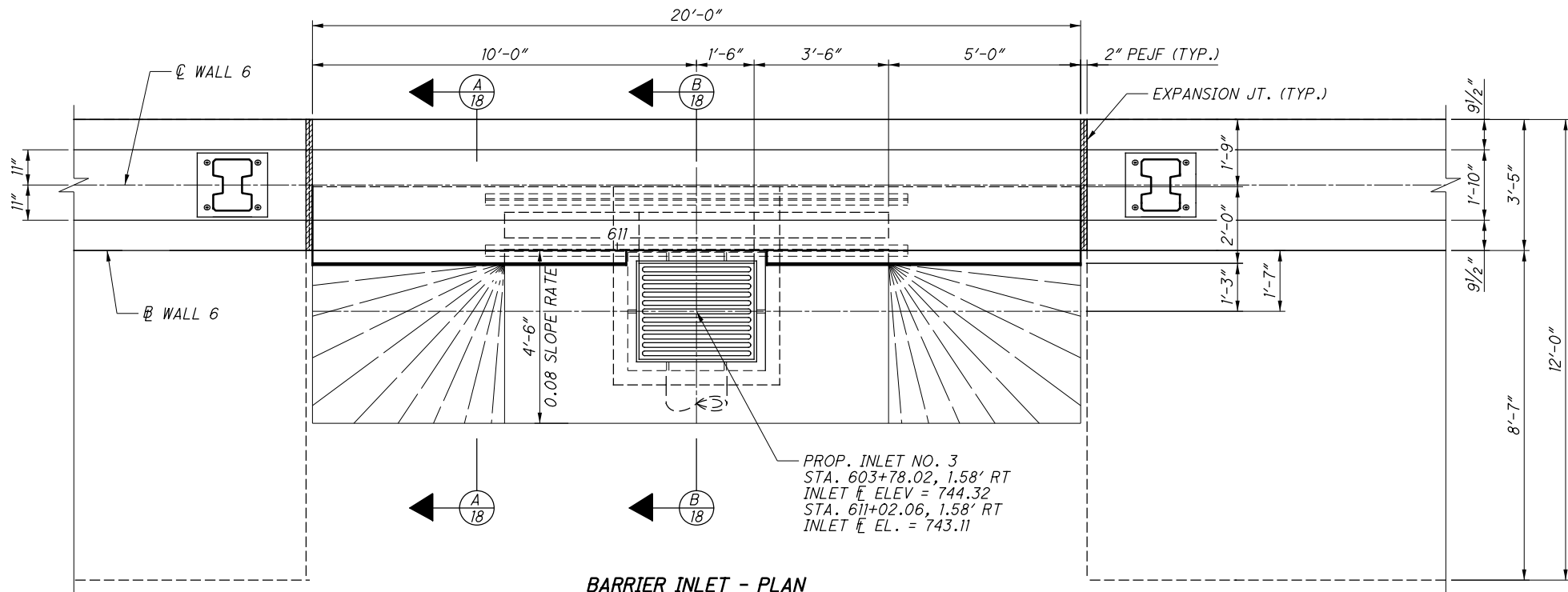
SECTION B-B



DESIGNED	SS	CHECKED	AIS
DRAWN	SS	REVISED	
REVIEWED	SRB	STRUCTURE FILE NUMBER	N/A
DATE	07/20/18		

BARRIER DETAILS
WALL 6, CIP CONCRETE WALL

FRA-315-7.13
PID No. 106877

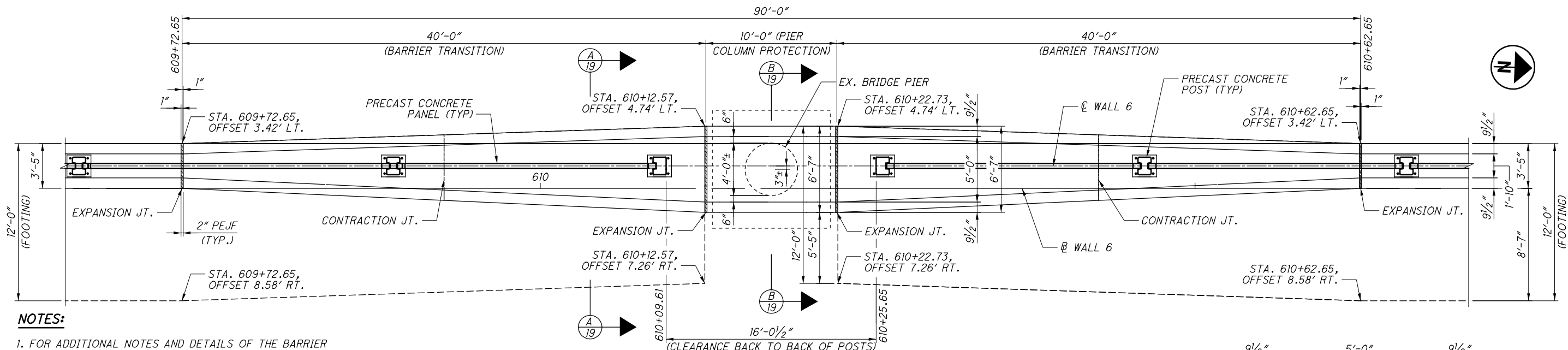


NOTES:

- FOR ADDITIONAL BARRIER INLET NOTES AND DETAILS, REFER TO STD. DWG. I-2.3. PAYMENT SHALL BE AT THE UNIT PRICE BID PER EACH FOR ITEM 611, BARRIER INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN AND SHALL INCLUDE ALL MATERIALS, REINFORCING STEEL, CASTING, LABOR AND INCIDENTALS REQUIRED TO CONSTRUCT THE INLET AS SHOWN ON THE PLANS. FOR INLET QUANTITY, SEE ROADWAY PLANS. SEALING OF CONCRETE BARRIER WILL BE PAID FOR UNDER ITEM 512.
- FOR LOCATION OF INLETS, SEE SHEETS 1 - 3 OF 21.

BARRIER INLET - ELEVATION

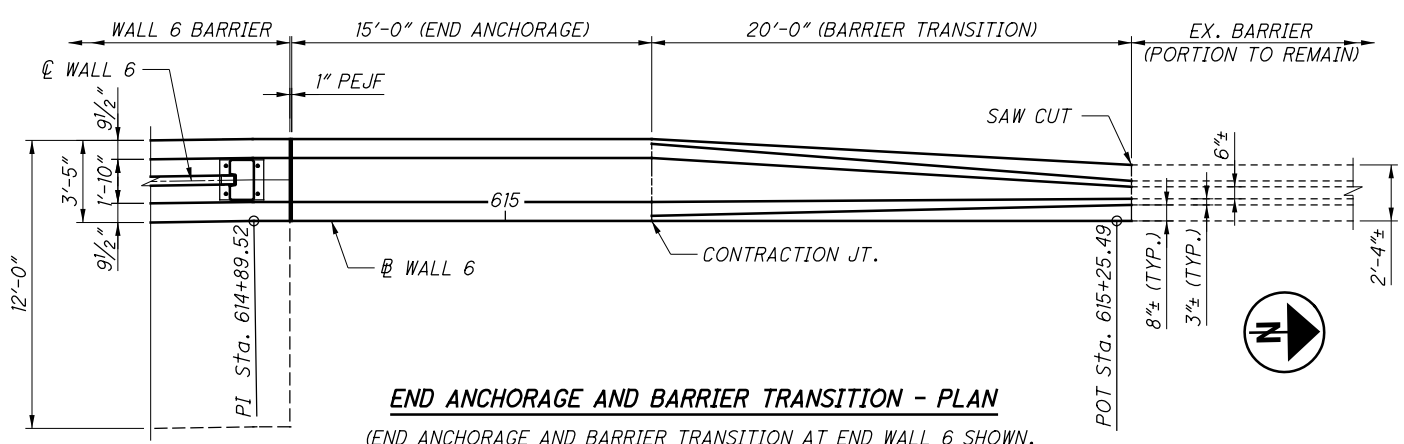
STEEL LIST (PER INLET, FOR ESTIMATING PURPOSES ONLY)							BENDING DIAGRAMS			
INLET NO. 3	X501 #5 BAR		X502 #5 BAR		S6x12.5					
	STRAIGHT		STRAIGHT							
	No.	LENGTH	No.	LENGTH	No.	LENGTH				
	4	4'-8"	12	19'-8"	2	11'-0"				
Y501 #5 BAR	Y502 #5 BAR		Y503 #5 BAR		Y504 #5 BAR					
	BENT		BENT		BENT					
	No.	LENGTH	No.	LENGTH	No.	LENGTH				
10	13'-11"	11	10'-5"	11	4'-7"	21	5'-4"			



BRIDGE PIER BARRIER TRANSITION - PLAN

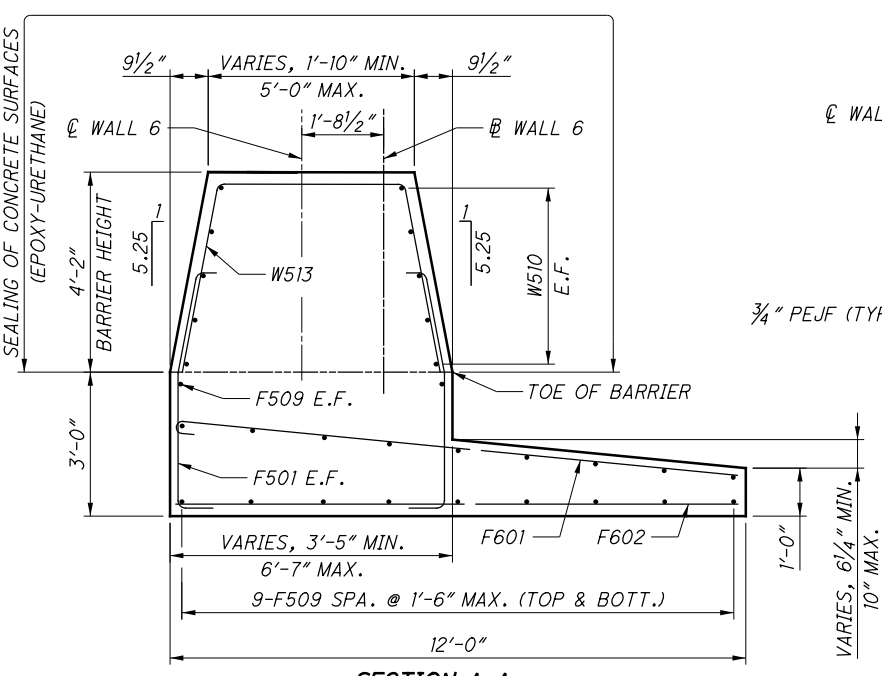
NOTES:

1. FOR ADDITIONAL NOTES AND DETAILS OF THE BARRIER TRANSITION AT BRIDGE PIER, REFER TO STD. DWG. RM-4.4. THE REINFORCING STEEL WILL BE PAID FOR UNDER ITEM 509, THE CONCRETE WILL BE PAID FOR UNDER ITEM 511, AND SEALING OF CONCRETE BARRIER WILL BE PAID FOR UNDER ITEM 512.
2. PROVIDE LINEAR TRANSITION AT BOTH ENDS OF WALL 6 BETWEEN THE PROPOSED AND EXISTING CONCRETE BARRIER WITHIN THE 20' BARRIER TRANSITION. PAYMENT SHALL BE AT THE UNIT PRICE BID PER FOOT FOR ITEM 622, BARRIER TRANSITION, AS PER PLAN, AND SHALL INCLUDE ALL MATERIALS, LABOR, DOWEL HOLES, AND OTHER INCIDENTALS NECESSARY TO CONSTRUCT THE BARRIER TRANSITION AS SHOWN ON THE PLANS.
3. PAYMENT FOR THE REINFORCED END ANCHORS, AS SHOWN ON THE PLANS SHALL BE AT THE UNIT PRICE BID PER EACH FOR ITEM 622, BARRIER, MISC.: END ANCHORAGE, REINFORCED, AND SHALL INCLUDE ALL MATERIALS, LABOR, AND OTHER INCIDENTALS NECESSARY TO CONSTRUCT THE BARRIER END ANCHOR AS SHOWN ON THE PLANS.
4. FOR CONCRETE BARRIER REINFORCING DETAILS, SEE SHEETS 5 - 16 OF 21.

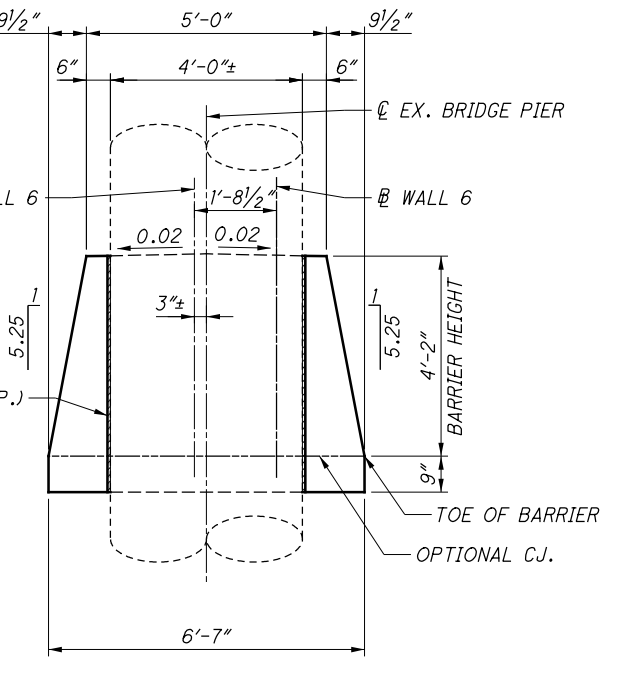


END ANCHORAGE AND BARRIER TRANSITION - PLAN

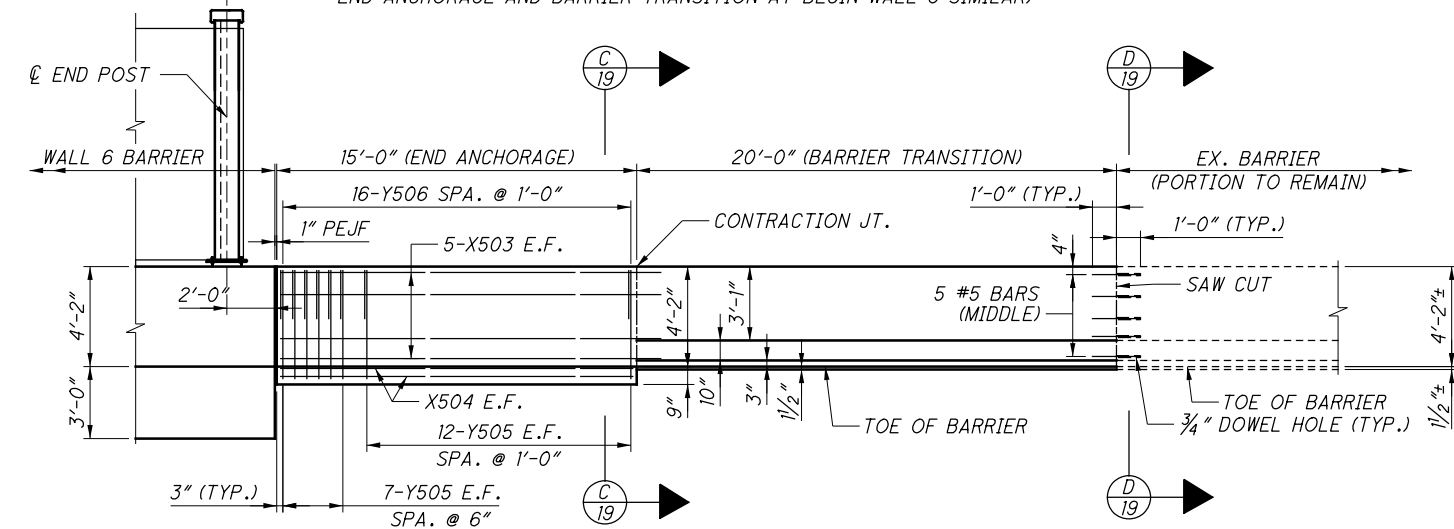
(END ANCHORAGE AND BARRIER TRANSITION AT END WALL 6 SHOWN, END ANCHORAGE AND BARRIER TRANSITION AT BEGIN WALL 6 SIMILAR)



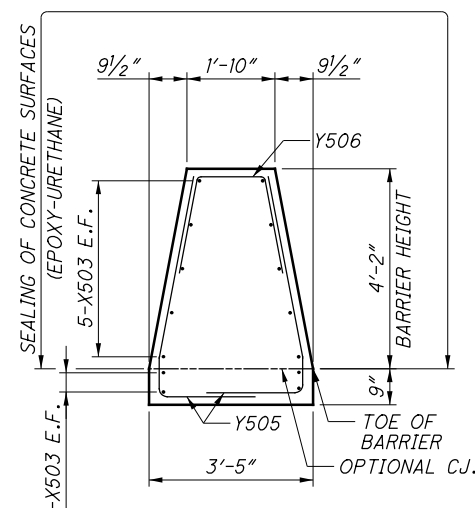
SECTION A-A



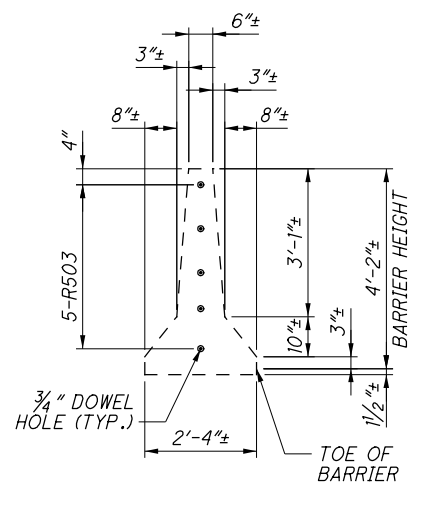
SECTION B-B



END ANCHORAGE AND BARRIER TRANSITION - ELEVATION



SECTION C-C



SECTION D-D

DESIGN AGENCY IBI GROUP 8101 North High Street Columbus, OH 43235 Tel: 614.880.1800 Fax: 614.880.1801 http://www.ibigroup.com	
DATE 07/20/18	DESIGNED SS
REVIEWED SRB	CHECKED AIS
DRAWN SS	STRUCTURE FILE NUMBER N/A
REVISED	
BARRIER END ANCHORAGE & TRANSITION DETAILS	
WALL 6, CIP CONCRETE WALL	
FRA-315-7.13	
PID No. 106877	
19 / 21	
73 80	

WALL 6 GEOMETRY

POST NO.	POST TYPE	STATION BASELINE	OFFSET WALL 6	TOP OF CONC BARRIER EL.	ACOUSTIC PROFILE EL.	PANEL NO.	TOP OF NOISE WALL EL.	NOISE WALL HEIGHT (FT)	C/C POST DISTANCE (FT)	POST NO.	POST TYPE	STATION BASELINE	OFFSET WALL 6	TOP OF CONC BARRIER EL.	ACOUSTIC PROFILE EL.	PANEL NO.	TOP OF NOISE WALL EL.	NOISE WALL HEIGHT (FT)	C/C POST DISTANCE (FT)		
1	B	600+50.84	1.71 LT	749.82	758.56					32	A	607+74.77	1.71 LT	748.32	756.98		32	757.89	9.25	24.00	
2	A	600+74.83	1.71 LT	749.82	758.46	1	759.89	9.75	24.00	33	A	607+98.77	1.71 LT	748.32	756.93		33	757.89	9.25	24.00	
3	A	600+98.82	1.71 LT	749.57	758.36	2	759.89	9.75	24.00	34	A	608+22.77	1.71 LT	748.32	756.87		34	757.89	9.25	24.00	
4	A	601+22.82	1.71 LT	749.57	758.23	3	759.89	10.00	24.00	35	A	608+46.77	1.71 LT	748.32	756.81		35	757.89	9.25	24.00	
5	A	601+46.81	1.71 LT	749.57	758.17	4	759.89	10.00	24.00	36	A	608+70.77	1.71 LT	748.32	756.74		36	757.89	9.25	24.00	
6	A	601+70.80	1.71 LT	749.32	758.12	5	759.89	10.00	24.00	37	A	608+94.77	1.71 LT	748.07	756.67		37	757.39	9.00	22.00	
7	A	601+94.79	1.71 LT	749.32	758.04	6	759.64	10.00	24.00	38	A	609+16.77	1.71 LT	748.07	756.60		38	757.39	9.00	24.00	
8	A	602+18.78	1.71 LT	749.32	757.99	7	759.64	10.00	24.00	39	A	609+40.77	1.71 LT	748.07	756.53		39	757.39	9.00	24.00	
9	A	602+42.77	1.71 LT	749.07	757.89	8	759.14	9.50	24.00	40	A	609+64.77	1.71 LT	748.07	756.46		40	757.39	9.00	24.00	
10	A	602+66.77	1.71 LT	749.07	757.80	9	759.14	9.75	24.00	41	A	609+88.77	1.71 LT	747.82	756.34		41	757.39	9.25	20.34	
11	A	602+86.77	1.71 LT	749.07	757.73	10	759.14	9.75	20.00	42	B	610+09.11	1.71 LT	747.82	756.29						
12	A	603+06.77	1.71 LT	748.82	757.66	11	759.14	9.75	20.00	43	B	610+26.15	1.71 LT	747.82	757.33		42	757.14	9.00	20.00	
13	A	603+26.77	1.71 LT	748.82	757.64	12	759.14	10.00	20.00	44	A	610+46.15	1.71 LT	747.82	756.97		43	757.14	9.00	20.00	
14	A	603+46.77	1.71 LT	748.82	757.62	13	759.14	10.00	20.00	45	A	610+66.15	1.71 LT	747.57	756.55		44	757.14	9.25	23.83	
15	A	603+65.94	1.71 LT	748.82	757.59	14	759.14	10.00	19.17	46	A	610+89.98	1.71 LT	747.57	756.15		45	757.14	9.25	24.17	
16	A	603+90.77	1.71 LT	748.82	757.57	15	759.14	10.00	24.83	47	A	611+14.15	1.71 LT	747.57	756.09		46	757.14	9.25	19.00	
17	A	604+14.77	1.71 LT	748.82	757.78	16	759.14	10.00	24.00	48	A	611+33.15	1.71 LT	747.57	756.21		47	757.14	9.00	20.00	
18	A	604+38.77	1.71 LT	748.82	757.72	17	759.14	10.00	24.00	49	A	611+53.13	1.71 LT	747.82	756.21		48	757.14	9.00	24.00	
19	A	604+62.77	1.71 LT	748.82	757.48	18	759.14	10.00	24.00	50	A	611+77.10	1.71 LT	747.82	756.26		49	757.14	9.00	24.00	
20	A	604+86.77	1.71 LT	748.82	757.47	19	759.14	10.00	24.00	51	A	612+01.10	1.71 LT	747.82	756.25		50	757.14	9.00	24.00	
21	A	605+10.77	1.71 LT	748.82	757.49	20	759.14	10.00	24.00	52	A	612+25.10	1.71 LT	747.82	756.32		51	757.14	9.00	24.00	
22	A	605+34.77	1.71 LT	748.82	757.49	21	758.89	9.75	24.00	53	A	612+49.10	1.71 LT	747.82	756.36		52	757.14	9.00	24.00	
23	A	605+58.77	1.71 LT	748.82	757.48	22	758.89	9.75	24.00	54	A	612+73.12	1.71 LT	747.82	756.35		53	757.39	9.00	24.00	
24	A	605+82.77	1.71 LT	748.82	757.43	23	758.89	9.75	24.00	55	A	612+97.12	1.71 LT	748.07	756.38		54	757.39	9.00	24.00	
25	A	606+06.77	1.71 LT	748.82	757.39	24	758.89	9.75	24.00	56	A	613+21.11	1.71 LT	748.07	756.38		55	757.39	9.00	24.00	
26	A	606+30.77	1.71 LT	748.82	757.34	25	758.89	9.75	24.00	57	A	613+45.10	1.71 LT	748.07	756.43		56	757.39	9.00	24.00	
27	A	606+54.77	1.71 LT	748.82	757.30	26	758.89	9.75	24.00	58	A	613+69.09	1.71 LT	748.07	756.42		57	757.39	9.00	24.00	
28	A	606+78.77	1.71 LT	748.57	757.23	27	758.89	9.75	24.00	59	A	613+93.08	1.71 LT	748.07	756.38		58	757.39	9.00	24.00	
29	A	607+02.77	1.71 LT	748.57	757.10	28	758.89	10.00	24.00	60	A	614+17.07	1.71 LT	748.07	756.41		59	757.39	9.00	24.00	
30	A	607+26.77	1.71 LT	748.57	757.03	29	758.89	10.00	24.00	61	A	614+41.06	1.71 LT	748.07	756.40		60	757.39	9.00	24.00	
31	A	607+50.77	1.71 LT	748.57	757.03	30	758.89	10.00	24.00	62	A	614+65.05	1.71 LT	748.07	756.37		61	757.39	9.00	24.00	
						31	757.89	9.00	24.00	63	B	614+89.02	1.71 LT	748.07	756.35						

WALL 6 DESIGN CHARTS
WALL 6, CIP CONCRETE WALL

DESIGNED	DRAWN	REVIEWED	DATE
SS	SS	SRB	07/20/18
CHECKED	REVISED	STRUCTURE FILE NUMBER	N/A
AIS			

FRA - 315 - 7.13
PID No. 106877

20 / 21

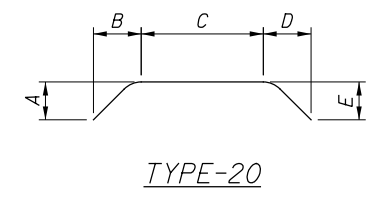
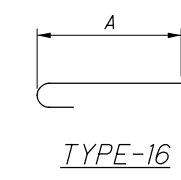
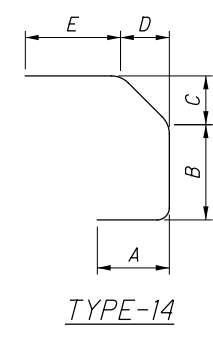
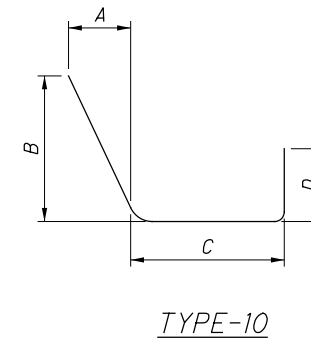
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E-3498

DESIGN AGENCY
 IBI
 8101 North High Street
 Columbus, OH 43235
 Tel: 614.880.1400 Fax: 614.880.1401
 ibi@ibi.com

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS					
					A	B	C	D	E	R
WALL 6										
F501	2794	7' - 4"	21,371	14	1' - 10"	2' - 9"	2' - 1"	4 $\frac{3}{4}$ "	10"	
F502	80	25' - 4"	2,114	STR.						
F503	440	37' - 4"	17,134	STR.						
F504	40	33' - 4"	1,391	STR.						
F505	40	32' - 11"	1,374	STR.						
F506	40	37' - 8"	1,572	STR.						
F507	20	23' - 6"	491	STR.						
F508	60	28' - 6"	1,784	STR.						
F509	40	39' - 6"	1,648	STR.						
F510	20	28' - 10"	602	STR.						
F511	20	22' - 6"	470	STR.						
F512	40	35' - 4"	1,475	STR.						
F601	2807	12' - 4"	51,999	16	11' - 8"					
F602	2807	11' - 8"	49,188	STR.						
W501	1317	9' - 1"	12,478	20	3' - 10"	9"	1' - 6"	9"	3' - 10"	
W502	40	25' - 4"	1,057	STR.						
W503	220	37' - 4"	8,567	STR.						
W504	20	33' - 4"	696	STR.						
W505	20	32' - 11"	687	STR.						
W506	20	37' - 8"	786	STR.						
W507	10	23' - 6"	246	STR.						
W508	30	28' - 6"	892	STR.						
W509	20	39' - 6"	824	STR.						
W510	10	28' - 10"	301	STR.						
W511	10	22' - 6"	235	STR.						
W512	20	35' - 4"	738	STR.						
W513	2 SER. OF 40	12' - 3" TO 9' - 1"	891	20	3' - 10"	9"	4' - 8" TO 1' - 6"	9"	3' - 10"	1"
SUB-TOTAL			181,011							
END ANCHORAGE										
*X503	20	15' - 10"	331	STR.						
*X504	8	14' - 8"	123	STR.						
*Y505	76	7' - 6"	595	10	9"	4' - 0"	7"	3' - 1"		
*Y506	32	5' - 4"	179	20	2' - 0"	4 $\frac{3}{8}$ "	1' - 6"	4 $\frac{3}{8}$ "	2' - 0"	
SUB-TOTAL			1,228							

* FOR INFORMATION ONLY. REINFORCING STEEL SHALL BE INCLUDED WITH ITEM 622 - BARRIER, MISC.: END ANCHORAGE, REINFORCED



NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, S501 IS A NO. 5 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE NOTED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED.
2. ALL REINFORCING STEEL SHALL BE EPOXY COATED.
3. "STR" IN THE TYPE COLUMN INDICATES STRAIGHT BARS.
4. "SER" DENOTES SERIES.
5. REFER TO C.M.S. SECTION 509.05 FOR STANDARD BEND DIMENSIONS.
6. ALL REINFORCING STEEL CLEARANCES ARE 2" UNLESS OTHERWISE NOTED.

REINFORCING STEEL LIST
WALL 6, CIP CONCRETE WALL

DESIGNED AIS CHECKED TDW	DRAWN AIS REVISED	REVIEWED SRB STRUCTURE FILE NUMBER N/A	DATE 07/20/18
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DESIGN AGENCY
 IBI GROUP
 8101 North High Street
 Columbus, OH 43235
 Tel: 614.880.1400 Fax: 614.880.1401
 www.ibigroup.com

FRA-315-7.13
 PID No. 106877

21 / 21

75
80

UTILITIES

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.

ODOT TRAFFIC MONITORING SECTION
1980 W BROAD STREET
COLUMBUS, OH 43223
CONTACT: DAREN DALTON
PHONE: (614) 204-0291
PHONE: (614) 275-1382

FIELD VERIFICATION OF UTILITIES

PRIOR TO ORDERING DMS SUPPORT STRUCTURES, THE CONTRACTOR SHALL FIELD VERIFY THAT THE PROPOSED LOCATION IS CLEAR FROM OVERHEAD AND UNDERGROUND UTILITY CONFLICTS. IN ADDITION TO CONTACTING OUPS FOR UTILITY FIELD MARKINGS, THE CONTRACTOR SHALL ALSO CONTACT ODOT DISTRICT 6 AND ODOT CENTRAL OFFICE ITS LAB TO REQUEST FIELD MARKING OF ANY PUBLIC UNDERGROUND UTILITIES (E.G., LIGHTING AND ITS FACILITIES). THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR IDENTIFYING UTILITY CONFLICTS, AND NOTIFYING THE ENGINEER OF ANY POTENTIAL CONFLICTS. THE SIGN LOCATION SHALL BE ADJUSTED BY THE ENGINEER AS NECESSARY.

ODOT DISTRICT 6 TRAFFIC 400 EAST WILLIAM ST. DELAWARE, OH 43015 740-833-8198 KEN GREENE
ODOT CENTRAL OFFICE ITS LAB 1606 WEST BROAD STREET COLUMBUS, OH 43223 614-387-4113 CEN.ITS.LAB@DOT.OHIO.GOV

DYNAMIC MESSAGE SIGN INSTALLATIONS

THE CONTRACTOR SHALL FURNISH AND INSTALL THIS ITEM ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809, AS WELL AS ANY STANDARD CONSTRUCTION DRAWINGS NOTED ON THE PLANS. THE CONTRACTOR SHALL COORDINATE AND PAY FOR THE COMMISSIONING OF EACH DMS, INCIDENTAL TO THE DMS PAY ITEM, AND PROVIDE COPIES OF THE COMMISSIONING REPORTS AND FULL FUNCTIONALITY CHECK LISTS TO ODOT ITS. THE MANUFACTURER SHALL COMMISSION THE SIGNS AND ODOT OFFICE OF TRAFFIC OPERATIONS SHALL BE PRESENT.

DMS & DMS SUPPORT STRUCTURES

THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO THE PROJECT ENGINEER FOR APPROVAL. THE DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER FROM THE MANUFACTURER. THE ITEM SHALL NOT BE RELEASED FOR CONSTRUCTION UNTIL APPROVED BY THE OFFICE OF TRAFFIC OPERATIONS.

ITEM 625 - GROUND ROD, AS PER PLAN

THE CONTRACTOR SHALL INSTALL GROUND RODS PER STANDARD CONSTRUCTION DRAWING ITS-50.10. A GROUND ROD SHALL BE INSTALLED AT EACH ELECTRIC PULL BOX INSTALLED ON THIS PROJECT AND CONNECTED TO THE PULL BOX FRAME. AT EACH PULL BOX LOCATION, THE GROUND ROD SHALL BE TIED INTO THE DISTRIBUTION CABLE USED AS THE GROUND WIRE TO SERVICE THE ITS CABINET, IN ORDER TO PROVIDE A COMPLETE GROUNDING SYSTEM.

ITEM 625 - NO. 4 AWG 600 VOLT DISTRIBUTION CABLE

A MINIMUM OF 10 FEET SLACK CABLE SHALL BE COILED IN EACH ELECTRICAL PULL BOX. THE CABLE QUANTITIES ACCOUNT FOR FOUR DISTRIBUTION CABLES (HOT (2 CABLES), NEUTRAL, AND GROUND) FROM POWER SERVICE TO GROUND MOUNTED ITS CABINET. 10 FEET OF CABLE AT ALL SERVICE TERMINATIONS, 10 FEET OF CABLE FOR EACH PULL BOX, AND 15 FEET OF CABLE BETWEEN ODOT CABINETS AND NEAREST PULL BOX HAS BEEN ACCOUNTED FOR IN THE CABLE QUANTITIES.

ITEM 625 - PULL BOX, 725.08, 32"

THE CONTRACTOR SHALL FURNISH AND INSTALL A 32" ROUND PULL BOX WITH CONCRETE PAD PER STANDARD CONSTRUCTION DRAWING ITS-14.11

ITEM 633 - CABINET FOUNDATION, AS PER PLAN

THE CONTRACTOR SHALL INSTALL A CABINET FOUNDATION FOR EACH ITS GROUND MOUNTED CABINET. SEE SUPPLEMENTAL SPECIFICATION 809 FOR CONDUIT REQUIREMENTS ENTERING THE ITS GROUND MOUNTED CABINET.

ITEM 633 - CONTROLLER WORK PAD, AS PER PLAN

THE CONTRACTOR SHALL INSTALL A WORKPAD AT EACH DMS PEDESTAL SUPPORT PER ODOT STANDARD CONSTRUCTION DRAWING ITS-30.14. 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.

ITS DOWNTIME

THE DMS DOWNTIME SHALL BE LIMITED TO A MAXIMUM OF ONE (1) DAY. THE EXISTING DMS SHALL BE DISCONNECTED AND THE NEW DMS CONNECTED IN THE SAME DAY. THE CONTRACTOR SHALL REDUCE DOWNTIME BETWEEN DISCONNECTING EXISTING DMS AND HAVING NEW DMS FULLY OPERATIONAL BY INSTALLING NEW DMS BEFORE DISCONNECTING POWER, COORDINATING MANUFACTURER COMMISSIONING, ETC.

SEE SUPPLEMENTAL SPECIFICATION 809 FOR DETAILS AND REQUIREMENTS RELATED TO ANY DOWNTIME OF ITS DEVICES (DMS, CCTV, HAR, FIBER, ETC.), INCLUDING INFORMATION REGARDING DISINCENTIVES.

THE CONTRACTOR SHALL REFER TO SUPPLEMENTAL SPECIFICATION 809.17 FOR MAINTAINING ITS DURING CONSTRUCTION. EXISTING WIRELESS COMMUNICATIONS ASSEMBLIES (WIRELESS RADIOS, CAMERAS, ETC.) SHALL BE RELOCATED BY ODOT ITS. THE CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING DMS AND DMS SUPPORT STRUCTURES WITH ODOT ITS (cen.its.lab@dot.ohio.gov) TO MINIMIZE WIRELESS COMMUNICATIONS DOWNTIME. WIRELESS COMMUNICATION EQUIPMENT SHALL BE MOVED IN THE SAME DAY THAT THE NEW DMS IS ACTIVATED. PAYMENT FOR MAINTAINING ITS DURING CONSTRUCTION SHALL BE INCIDENTAL TO THE UNIT BID PRICE FOR ITEM 809, DYNAMIC MESSAGE SIGN (DMS), FULL-SIZE WALK-IN.

TRACER WIRE

SEE SUPPLEMENTAL SPECIFICATION 804 FOR CURRENT TRACER WIRE REQUIREMENTS.

PAYMENT FOR ALL TRACER WIRE SHALL BE INCLUDED IN THE BID ITEM FOR THE FIBER OPTIC CABLE PAY ITEM.

ABANDON CONDUITS

REMOVE PORTIONS OF FOUNDATIONS PER CMS TO ABANDON UNDERGROUND CONDUITS.

ITEM 625 - TRENCH, 30" DEEP, AS PER PLAN

THIS ITEM CONSISTS OF ALL PARTS, MATERIALS, AND LABOR TO PREPARE A 30" DEEP TRENCH IN A SLOPED AREA. PER CMS 102.05 THE CONTRACTOR SHALL VISIT, INVESTIGATE, AND INSPECT THE SITE IN ORDER TO ESTABLISH A SATISFIED UNDERSTANDING OF ALL CHARACTER, QUALITY, QUANTITIES, AND THE CONDITIONS TO BE ENCOUNTERED IN PERFORMING THE WORK. NOTIFY PROJECT ENGINEER 1 WEEK PRIOR TO BACKFILL.

ITEM 625 - POWER SERVICE, AS PER PLAN

EXISTING POWER SERVICE TO REMAIN. INSTALL A NEW CONNECTION AS INDICATED ON THE PLAN SET FOR THE DYNAMIC MESSAGE SIGN INSTALLATIONS IN ACCORDANCE WITH ITEM 625 AND THE NATIONAL ELECTRIC CODE. SERVICE SHOULD BE COMPLETE 120/240V GROUNDED 4 WIRE SYSTEM TO SERVE EACH DMS INSTALLATION. 4 WIRE SYSTEM TO OBSERVE CONVENTIONAL COLOR CODE: LINE 1 (BLACK), LINE 2 (RED), NEUTRAL (WHITE), GROUND (GREEN).

INSTALL 240/120 VOLT, 100 AMP POWER SERVICE PER SCD ITS-15.10 OR ITS-15.11 AS NECESSARY. PROVIDE POWER SERVICE WITH 80 AMPERE OVER CURRENT PROTECTION FOR FULL SIZE DMS INSTALLATION.

ITEM 809 - ITS DEVICE, MISC.: REMOVAL OF DMS CABINET

ALL EXISTING TRAFFIC SURVEILLANCE EQUIPMENT THAT IS TO BE REMOVED AS SHOWN IN THE PLANS SHALL BE TURNED OVER TO THE ODOT ITS ENGINEER. THE CONTRACTOR SHALL SECURELY STORE THE EQUIPMENT AND CONTACT THE ODOT ITS ENGINEER (CEN.ITS.LAB@DOT.STATE.OH.US) TO SCHEDULE DELIVERY. THE ODOT ITS ENGINEER SHALL PROVIDE THE CONTRACTOR WITH WRITTEN DOCUMENTATION OF ANY ITEMS THAT ARE TO BE DISPOSED OF BY THE CONTRACTOR.

BEFORE ANY EQUIPMENT IS REMOVED THE CONTRACTOR SHALL REVIEW THE ITS DOWNTIME NOTES IN THESE PLANS TO ENSURE THAT THEY ARE IN COMPLIANCE WITH THE NOTIFICATION REQUIREMENTS.

ITEM 809 - ITS DEVICE, MISC.: REMOVAL OF DMS SIGN

PRIOR TO THE REMOVAL OF THE DMS, ODOT TRAFFIC OPERATIONS SHOULD BE NOTIFIED A MINIMUM OF THREE (3) DAYS IN ADVANCE IN ORDER TO BE PRESENT AT THE TIME OF REMOVAL. AT SUCH TIME THE SIGN IS TO BE REMOVED, ODOT ITS MAINTENANCE PERSONNEL SHALL BE GIVEN AN OPPORTUNITY TO REMOVE ANY PARTS OR COMPONENTS PRIOR TO THE SIGN BEING REMOVED OR DISPOSED OF. SUCH ITEMS INCLUDE, BUT ARE NOT LIMITED TO, THE DMS POWER SUPPLIES, PIXEL BOARDS, COMMUNICATION EQUIPMENT, ETC. THIS ITEM SHALL ALSO INCLUDE REMOVAL OF THE EXISTING DMS SUPPORT, ANY MOUNTING HARDWARE, AND REMOVAL OF THE FOUNDATION 1 FOOT BELOW THE GROUND LINE.

EXISTING DMS PARTS TO BE DELIVERED TO ODOT ITS. CONTACT cen.its.lab@dot.ohio.gov TO COORDINATE.

ITEM 625 - CONDUIT, 4", MULTI-CELL, SCHEDULE 40 & SCHEDULE 80, 725.20

DESCRIPTION:
THIS CONDUIT IS INTENDED FOR THE USE IN UNDERGROUND SITUATIONS REQUIRING MORE THAN ONE SINGLE CONDUIT. THIS INCLUDES THE MAIN CONDUIT RACEWAY ALONG THE FREEWAY, CONNECTION FROM PULL BOXES TO THE ROAD SIDE CABINETS AND FOR RUNS OF CONDUIT FOR MULTIPLE PURPOSES, E.G., AT RAMP METER INSTALLATIONS, FOR LOOP LEAD-IN CABLE, SIGNALS CABLE FOR RAMP METER DISPLAYS, SIGNAL CABLE FOR RAMP METER SIGNING FLASHERS & ILLUMINATION AND POWER. THE CONTRACTOR SHALL PLUG ALL UNUSED CELLS WITH CONDUIT CAPS TO ASSURE AIR AND WATER INTEGRITY OF EACH INDIVIDUAL INNERDUCT.

MATERIALS:
THE TRAFFIC SURVEILLANCE RACEWAY SHALL CONSIST OF A FACTORY-ASSEMBLED SYSTEM OF FOUR (4) INNERDUCTS ASSEMBLED WITHIN A PROTECTIVE OUTER DUCT. THE INNERDUCTS SHALL BE NOMINAL 1.25 INCH INSIDE DIAMETER, TYPE DB PVC PER NEMA TC-8 WITH A BELL INSERTION DEPTH OF 1.75 INCHES MINIMUM. THE OUTER DUCT SHALL BE NOMINAL 4 INCH (INSIDE DIAMETER), SCHEDULE 40 PVC. CARLON TYPE SCHEDULE 40 AND 80 OR APPROVED EQUIVALENT.

ITEM 625 - CONDUIT, 4", MULTI-CELL, SCHEDULE 40 & SCHEDULE 80, 725.20 (CONTINUED)

THE COUPLING SHALL BE DESIGNED IN A MANNER TO PERMIT EASY FIELD ASSEMBLY. THE COUPLING SHALL BE MARKED OR KEYED IN A MANNER TO ENSURE THE INNERDUCTS ARE PROPERLY ALIGNED, ANY COLOR CODES ARE CONTINUED AND THE ADJOINING SECTION IS INSERTED TO THE PROPER DEPTH IN THE BELL. ALL KEYS AND/OR MARKINGS SHALL BE VISIBLE AFTER ASSEMBLY TO ALLOW THE INSPECTION OF EACH JOINT FOR PROPER ASSEMBLY BEFORE BURIAL. THE SEALING SYSTEM SHALL BE DESIGNED TO ASSURE AIR INTEGRITY OF EACH INDIVIDUAL INNERDUCT AND WATER INTEGRITY OF THE ENTIRE SYSTEM.

WHERE INNERDUCT(S) WITHIN A MULTI-CELL DUCT ARE TO REMAIN EMPTY, ONE 1/4-INCH NYLON ROPE SHALL BE INSTALLED IN EACH OF THE OPEN INNERDUCTS, THE ROPE WILL REMAIN TO BE USED FOR A FUTURE CABLE INSTALLATION. ALSO, EACH INNERDUCT SHALL BE PLUGGED TO MAINTAIN THE AIR AND WATER INTEGRITY. IN ADDITION, THE OUTER DUCT SHALL BE CAPPED TO MAINTAIN THE AIR AND WATER INTEGRITY OF THE ENTIRE SYSTEM. FOR MULTI-CELL DUCT INSTALLED IN MEDIAN WALLS, ALL ROPES AND PLUGS SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT.

INSTALLED IN TRENCH:
INSTALLATION WILL BE IN 30-INCH DEEP TRENCH, EXCEPT AS NOTED ON THE PLANS.

ALL JOINTS WILL BE JOINED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, IN ORDER TO PROVIDE AN AIR-TIGHT ENCLOSURE OF THE INTERIOR DUCTS AND A WATER-TIGHT ENCLOSURE OF THE OUTER DUCT. ALL MULTI-CELL CONDUIT INSTALLED OUTSIDE OF THE ROADWAY IN TRENCH SHALL BE SCHEDULE 40 UNLESS DIRECTED BY THE ODOT ENGINEER TO USE SCHEDULE 80 FOR USE IN WELL-TRAVELED VEHICULAR AREAS.

INSTALLED UNDER ROADWAY:
INSTALLATION WILL BE AT LEAST 30 INCHES DEEP JACKED OR DRILLED UNDER PAVEMENT, EXCEPT AS NOTED ON THE PLANS.

ALL JOINTS WILL BE JOINED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, IN ORDER TO PROVIDE AN AIR-TIGHT ENCLOSURE OF THE INTERIOR DUCTS AND A WATER-TIGHT ENCLOSURE OF THE OUTER DUCT. ALL MULTI-CELL CONDUIT INSTALLED UNDER THE ROADWAY SHALL BE SCHEDULE 80.

INSTALLED WITHIN 6 FEET OF GUARDRAIL:
INSTALLATION WILL BE AT LEAST 30 INCHES DEEP TRENCH AND ENCASED IN CONCRETE.

ALL JOINTS WILL BE JOINED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, IN ORDER TO PROVIDE AN AIR-TIGHT ENCLOSURE OF THE INTERIOR DUCTS AND A WATER-TIGHT ENCLOSURE OF THE OUTER DUCT. ALL MULTI-CELL CONDUIT INSTALLED UNDER THE ROADWAY SHALL BE SCHEDULE 80.

METHOD OF MEASUREMENT:
THE CONDUIT WILL BE MEASURED BY THE AMOUNT OF CONDUIT IN FEET FURNISHED AND INSTALLED OF EACH TYPE SCHEDULE 40 OR 80 MEASURED FROM CENTER-TO-CENTER OF PULL BOXES, FOUNDATION, ETC., AND WILL INCLUDE ALL FITTINGS AND APPURTENANCES, JOINTS, BENDS, GROUNDS AND CONCRETE ENCASEMENT WHERE SPECIFIED.
THE TRENCH WILL BE MEASURED BY THE NUMBER OF FEET OF TRENCH COMPLETED AS PER C&MS 625.21.

BASIS OF PAYMENT:
THE PAYMENT FOR THESE ITEMS WILL BE MADE FOR THE ACCEPTED LINER FOOT QUANTITIES AT THE CONTRACT BID PRICE.

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ITEM 809 - ITS DEVICE, MISC.: DYNAMIC MESSAGE SIGN FULL COLOR WALK-IN

GENERAL DESCRIPTION

THIS DMS ALTERNATE BID ITEM SHALL INCLUDE ALL REQUIREMENTS FROM SECTION 1500 OF THE OFFICE OF TRAFFIC OPERATIONS HANDBOOK FOR ITEM 809E63000: DYNAMIC MESSAGE SIGN (DMS), FULL-SIZE WALK-IN, EXCEPT FOR DIFFERENCES AS DESCRIBED BELOW:

1.) GENERAL SPECIFICATIONS

THE DMS HOUSING SHALL PROVIDE WALK-IN ACCESS FOR ALL LIGHT EMITTING DIODE (LED) DISPLAY MODULES, ELECTRONICS, ENVIRONMENTAL CONTROL EQUIPMENT, AIR FILTERS, WIRING, AND OTHER INTERNAL DMS COMPONENTS. THE DMS SHALL BE CAPABLE OF DISPLAYING FULL COLOR MESSAGES USING RED, GREEN, AND BLUE LED ASSEMBLIES FOR THE PIXELS.

THE DMS SHALL BE ABLE TO DISPLAY THREE ROWS OF 18" CHARACTERS WITH 17 CHARACTERS PER ROW. THE DMS PIXEL PITCH SHALL BE 20MM OR LESS TO ACHIEVE HIGH QUALITY MESSAGING AND GRAPHICS WITH FULL COLOR.

THE DMS SHALL CONTAIN A FULL DISPLAY MATRIX MEASURING A MINIMUM OF 96 ROWS HIGH BY 336 PIXEL COLUMNS WIDE. THE MATRIX SHALL DISPLAY MESSAGES THAT ARE CONTINUOUS, UNIFORM, AND UNBROKEN IN APPEARANCE TO MOTORISTS AND TRAVELERS.

THE DMS SHALL BE CAPABLE OF BEING CONTROLLED BY AN EXISTING ODOT ATMS SOFTWARE PLATFORM. THE MANUFACTURER SHALL SUBMIT A DMS CONTROLLER WHICH HAS BEEN PRECONFIGURED WITH THE FULL COLOR DMS CHARACTERISTICS TO ODOT FOR TESTING TO MAKE SURE IT'S COMPATIBLE.

THE CONTRACTOR SHALL SUBMIT CUT SHEETS SHOWING COMPLETE DMS SPECIFICATIONS AND TRACEABILITY MATRIX SHOWING THEY MEET ALL REQUIREMENTS. FINAL APPROVAL SHALL BE AT THE SOLE DISCRETION OF ODOT.

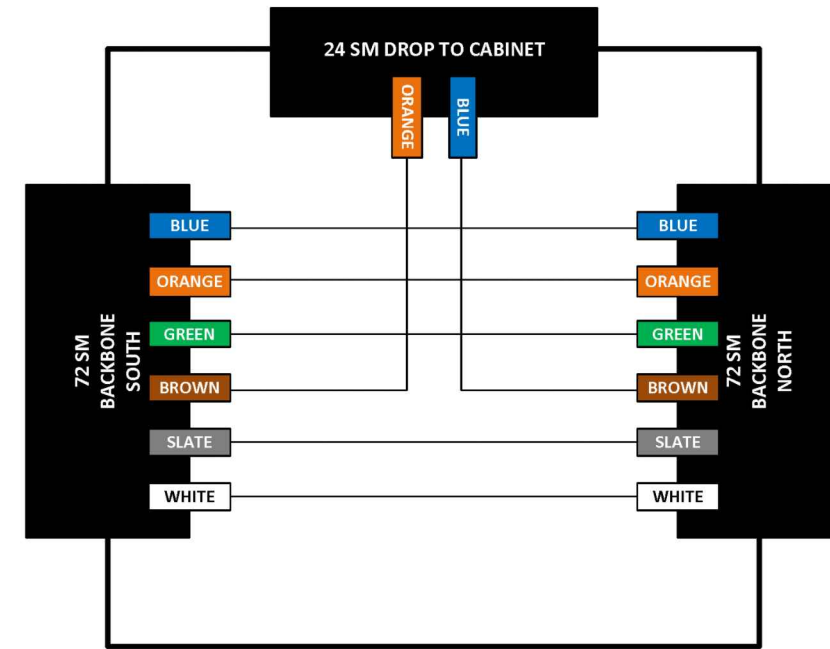
FIBER OPTIC CABLE MARKER

SEE SUPPLEMENTAL SPECIFICATION 804 FOR CURRENT FIBER OPTIC CABLE MARKER REQUIREMENTS.

PAYMENT FOR ALL FIBER OPTIC CABLE MARKERS SHALL BE INCLUDED IN THE BID ITEM FOR THE FIBER OPTIC CABLE PAY ITEM.

SPLICE DIAGRAM AND FIBER TERMINATION DETAILS

NOTE 1: TERMINATE ALL 24 FIBERS OF THE DROP CABLE IN THE DMS CABINET



REF. NO.	625	625	625	625	625	625	625	625	625	625	630	630	630	633	633	804	804	804	809	809	809	809	809
	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	CONDUIT, 2", 725.051	CONDUIT, 4", MULTICELL, 725.20, EPC-40	TRENCH, 30" DEEP, AS PER PLAN	PULL BOX, 725.08, 18"	PULL BOX, 725.08, 32"	GROUND ROD	GROUND ROD, AS PER PLAN	POWER SERVICE, AS PER PLAN	UNDERGROUND WARNING/MARKING TAPE	OVERHEAD SIGN SUPPORT, DMS PEDESTAL	CATWALK, DMS PEDESTAL	OVERHEAD SIGN SUPPORT FOUNDATION, DMS PEDESTAL	CABINET FOUNDATION, AS PER PLAN	CONTROLLER WORK PAD, AS PER PLAN	FIBER OPTIC CABLE, 24 FIBER	FIBER TERMINATION PANEL, 24 FIBER	SPLICE ENCLOSURE, BUTT STYLE	DYNAMIC MESSAGE SIGN (DMS), FULL-SIZE WALK-IN	ETHERNET CABLE, OUTDOOR-RATED	ITS CABINET - DMS	ITS DEVICE, MISC.: REMOVAL OF DMS CABINET	ITS DEVICE, MISC.: REMOVAL OF DMS SIGN
	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH
SITE 94	1388	302	233	525	1	1	2	1	1	525	1	1	1	1	1	2059	1	1	1	160	1	1	1
TOTALS CARRIED TO GENERAL SUMMARY	1388	302	233	525	1	1	2	1	1	525	1	1	1	1	1	2059	1	1	1	160	1	1	1

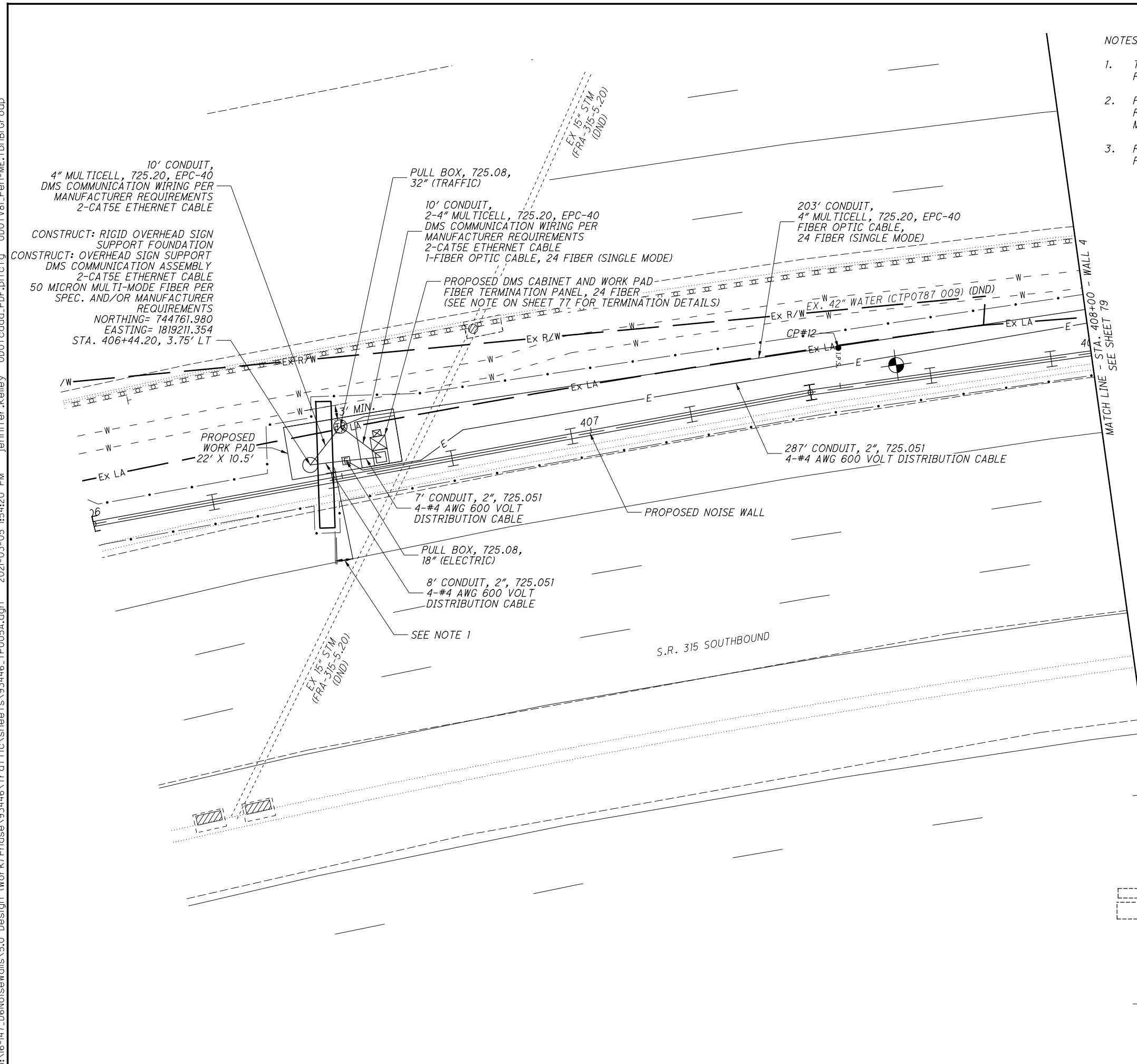
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DMS PLAN - SITE 94
GENERAL NOTES & ESTIMATED QUANTITIES

FRA-315-7.13
NOISE WALLS

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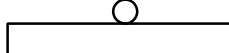




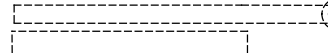


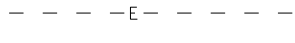

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NOTES:

1. THE DMS SIGN INSTALLATION SHALL BE ANGLED 10° PERPENDICULAR TO THE ROADWAY AS SHOWN.
2. PAYMENT FOR ALL DMS COMMUNICATION WIRING PER MANUFACTURER REQUIREMENTS SHALL BE INCLUDED IN THE BID ITEM FOR THE DYNAMIC MESSAGE SIGN PAY ITEM.
3. REFER TO SHEET 4 FOR STORM, SANITARY, WATER, AND UTILITY LINE PROTECTION NOTES AND REQUIREMENTS.

LEGEND:

-  PROPOSED DMS SIGN
-  PULL BOX, 725.08, 18" (ELECTRIC)
-  PULL BOX, 725.08, 32" (TRAFFIC)
-  PROPOSED ITS CABINET - GROUND MOUNTED
-  PROPOSED ELECTRICAL CONDUIT AND CABLE
-  EXISTING DMS SIGN
-  EXISTING ELECTRICAL PULL BOX
-  EXISTING DMS CONTROLLER CABINET
-  EXISTING ELECTRICAL CONDUIT AND CABLE
-  I.P.S. PROJECT CONTROL

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HORIZONTAL SCALE IN FEET

DMS PLAN - SITE 94
STA. 406+00 TO STA. 408+00

FRA-315-7.13
NOISE WALLS

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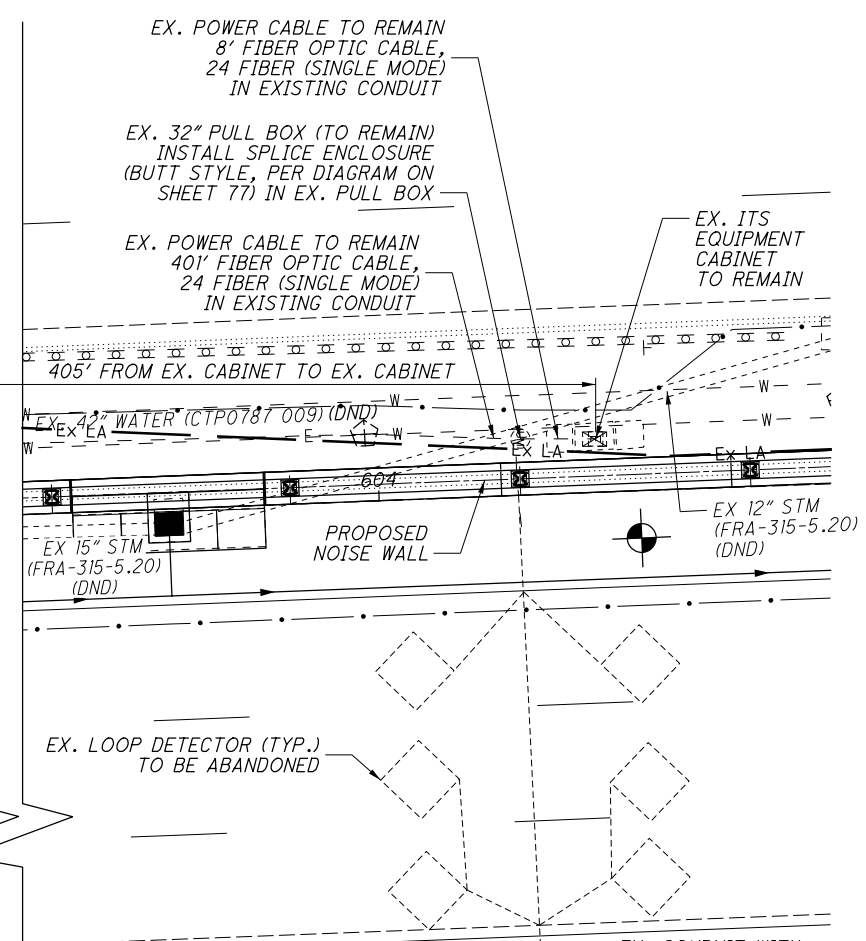
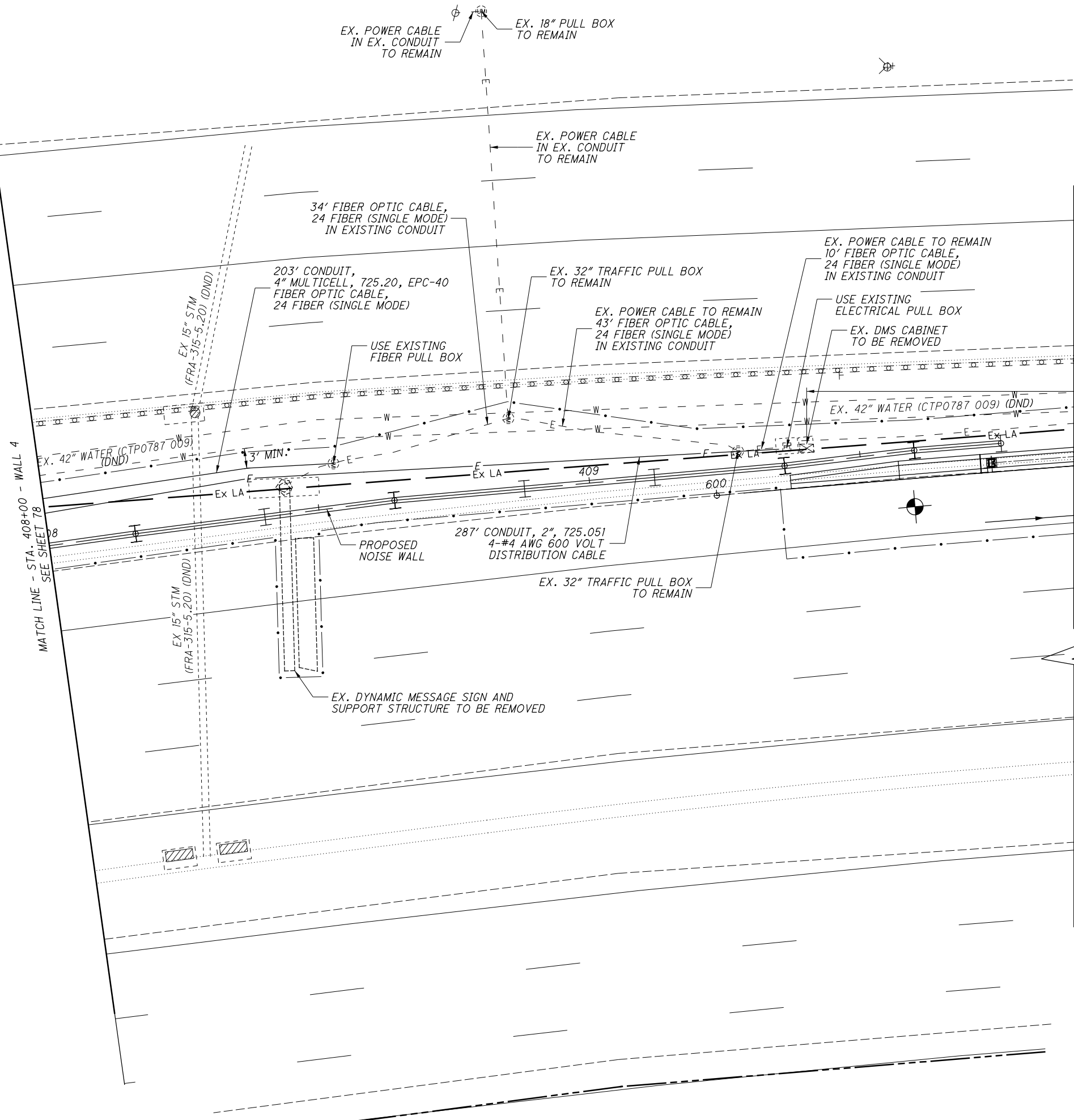
DMS PLAN - SITE 94
STA. 408+00 TO STA. 409+76

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NOISE WALLS

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NOTES:

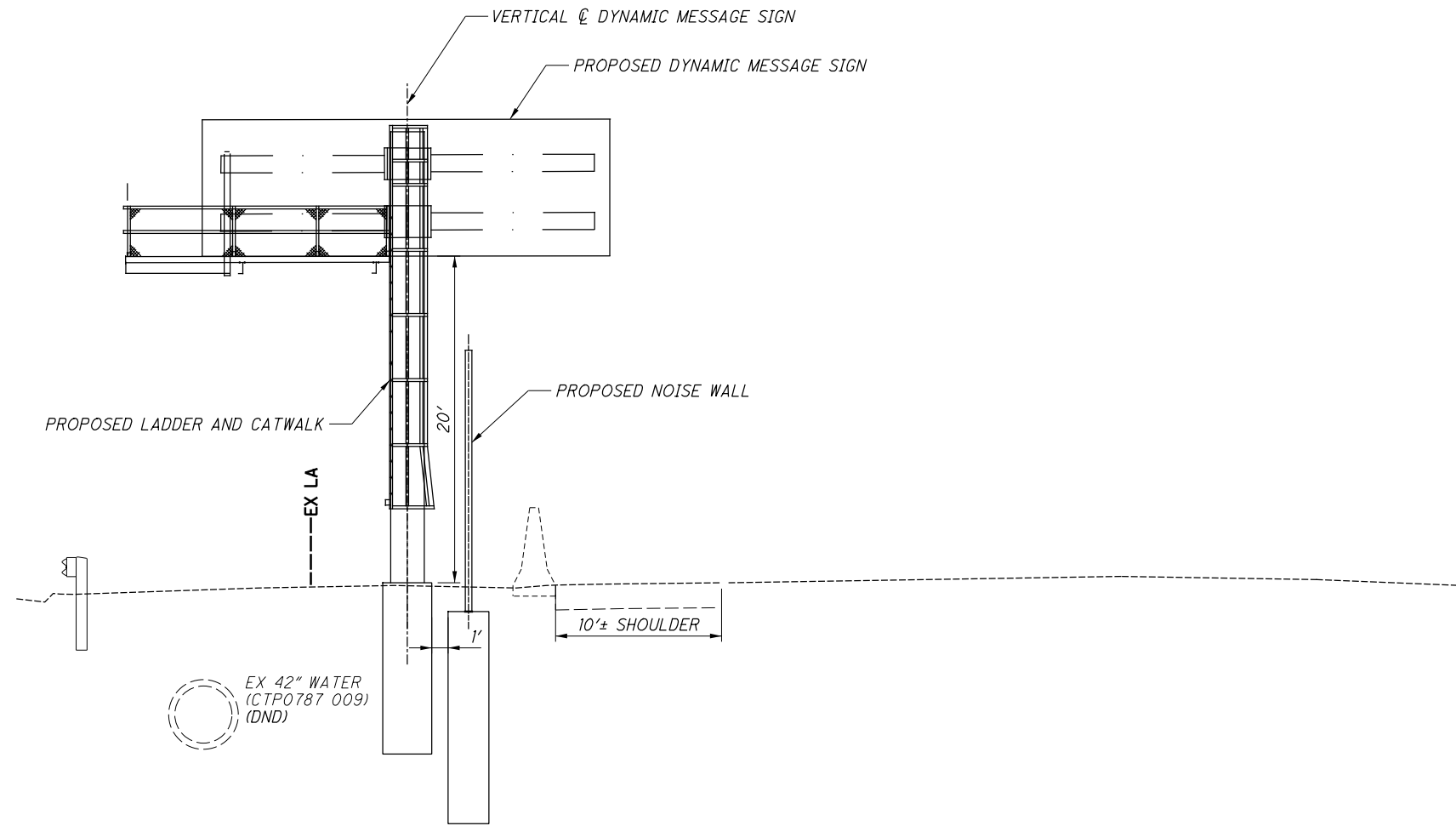
- EXISTING ITS EQUIPMENT LOCATIONS ARE APPROXIMATE.
- THE EXISTING ITS SYSTEM SHALL BE KEPT FULLY FUNCTIONAL THROUGHOUT CONSTRUCTION.
- INSTALL NEW DMS POWER AND CABINET BEFORE REMOVING EXISTING.
- REFER TO SHEET 4 FOR STORM, SANITARY, WATER, AND UTILITY LINE PROTECTION NOTES AND REQUIREMENTS.



LEGEND:

- PROPOSED DMS SIGN
- PULL BOX, 725.08, 18" (ELECTRIC)
- PULL BOX, 725.08, 32" (TRAFFIC)
- PROPOSED ITS CABINET - GROUND MOUNTED
- PROPOSED ELECTRICAL CONDUIT AND CABLE
- EXISTING DMS SIGN
- EXISTING ELECTRICAL PULL BOX
- EXISTING DMS CONTROLLER CABINET
- EXISTING ELECTRICAL CONDUIT AND CABLE
- I.P.S. PROJECT CONTROL

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SR-315 SOUTHBOUND - LOOKING NORTH

NOTE:

SIGN STRUCTURE, SUPPORTS, CATWALK AND FOOTINGS ARE ALL SCHEMATIC AND FOR ILLUSTRATIVE PURPOSES ONLY. THE CONTRACTOR TO DESIGN ALL STRUCTURAL ELEMENTS.

ALL DIMENSIONS ARE APPROXIMATE FOR BIDDING PURPOSES. CONTRACTOR SHALL VERIFY DISTANCES BEFORE DESIGNING STRUCTURES.

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CHECKED	KMK

**DMS PLAN - SITE 94
ELEVATION VIEW**

**FRA-315-7.13
NOISE WALLS**

80
80

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW NOISE BARRIER WALLS ALONG SR-315 SB BETWEEN HENDERSON RD AND GARRETT ST IN FRANKLIN COUNTY, OHIO.

HISTORIC RECORDS

TWO HISTORIC BORINGS ON THE PEDESTRIAN BRIDGE ALIGNMENT FROM THE ORIGINAL CONSTRUCTION PLANS, FRA-315-6.98, DATED 1971, ARE PRESENTED IN THESE PLANS.

GEOLOGY

THE PROJECT IS LOCATED WITHIN THE COLUMBUS LOWLAND PHYSIOGRAPHIC PROVINCE. TYPICALLY, THIS AREA IS CHARACTERIZED BY MODERATE RELIEF SURROUNDED BY TYPICALLY HIGHER TERRAIN. THE AREA HAS BEEN HIGHLY MODIFIED BY URBANIZATION. THE OLENTANGY RIVER VALLEY CONTAINS DEEP GLACIAL OUTWASH GRANULAR DEPOSITS WITH INTERMITTENT COHESIVE LAYERS OVERLAIN AT THE SURFACE BY RECENT ALLUVIAL DEPOSITS. UNDERLYING THE GLACIALLY DEPOSITED SOILS IS DEVONIAN AGED BEDROCK FROM THE OLENTANGY SHALE AND DELAWARE LIMESTONE FORMATIONS.

RECONNAISSANCE

SITE RECONNAISSANCE WAS COMPLETED BY PERSONNEL FROM THE OFFICE OF GEOTECHNICAL ENGINEERING ON SEPTEMBER 6, 2016. THE SURROUNDING LAND USAGE WAS NOTED AS BEING URBAN WITH OLENTANGY RIVER ROAD RUNNING PARALLEL TO THE WEST CONTAINING A GRASSY STRIP BETWEEN THE TWO ROADWAYS AND WOODED RIVER BANK RUNNING PARALLEL TO THE EAST. PAVEMENT FOR SR 315 IS NOTED AS BEING IN GOOD CONDITION.

SUBSURFACE EXPLORATION

SEVENTEEN (17) BORINGS, B-001-0-16 THROUGH B-017-0-16, WERE COMPLETED AS PART OF THE SUBSURFACE EXPLORATION BETWEEN SEPTEMBER 7 AND 22, 2016. THE BORINGS WERE COMPLETED WITH A TRUCK MOUNTED ROTARY DRILL RIG, USING 3-1/4 INCH I.D. HOLLOW STEM AUGERS TO ADVANCE THE BORINGS. DISTURBED SAMPLES WERE COLLECTED IN ACCORDANCE WITH THE STANDARD PENETRATION TEST (AASHTO T206) AT 2.5 FOOT INTERVALS WITHIN THE BORING. THE HAMMER SYSTEM USED WAS CALIBRATED ON APRIL 27, 2015, AND THE AVERAGE DRILL ROD ENERGY RATIO (ER) WAS 85%.

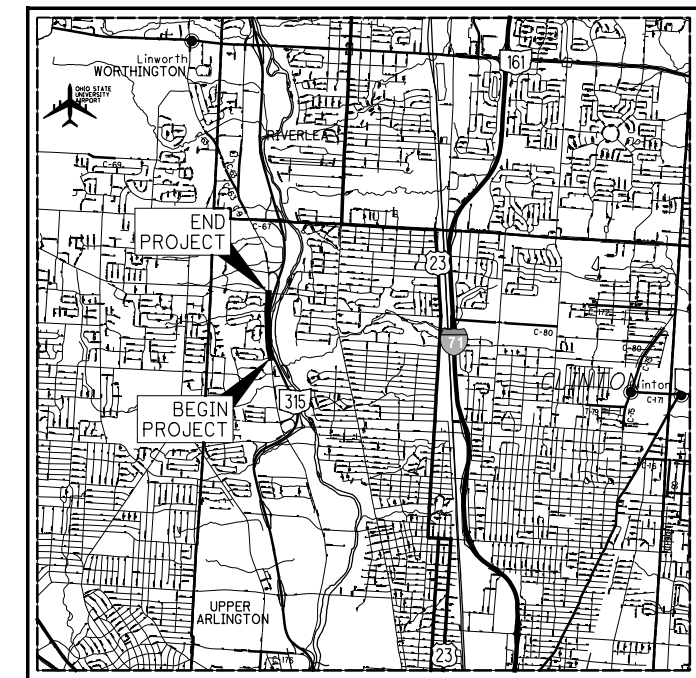
EXPLORATION FINDINGS

BORINGS B-001 THROUGH B-004 WERE DRILLED WITHIN THE GRASSY STRIP AND ENCOUNTERED 5 TO 10 INCHES OF TOPSOIL. THE REMAINING BORINGS WERE COMPLETED ON THE PAVED SHOULDER OF SR 315 AND ENCOUNTERED ASPHALT RANGING BETWEEN 8.0 AND 12 INCHES IN THICKNESS. BENEATH THE TOPSOIL OR ASPHALT THE BORINGS ENCOUNTERED VARIABLE MATERIALS. B-001 ENCOUNTERED COHESIVE SOIL CONSISTING OF SILT AND CLAY (A-6a) AND SANDY SILT (A-4a) IN VERY STIFF TO STIFF CONSISTENCY AND DAMP TO MOIST CONDITION TO ELEVATION 727.1 FEET UNDERLAIN BY GRANULAR SOILS CONSISTING OF GRAVEL AND STONE FRAGMENTS (A-1-a) AND GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-b) IN DENSE TO VERY DENSE COMPACTNESS AND WET IN CONDITION. B-002 PREDOMINATELY ENCOUNTERED NON-COHESIVE SOILS CONSISTING OF GRAVEL AND STONE FRAGMENTS (A-1-a), GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-b) AND GRAVEL WITH STONE FRAGMENTS WITH SAND AND SILT (A-2-4) IN LOOSE TO VERY DENSE COMPACTNESS AND DAMP TO WET CONDITIONS WITH VERY STIFF SANDY SILT (A-4a) IN DAMP CONDITION BETWEEN ELEVATION 733.5 AND 728.5 FEET. B-003 AND B-004 FIRST ENCOUNTERED COHESIVE SOILS CONSISTING OF SANDY SILT (A-4a) AND SILT AND CLAY (A-6a) IN VERY STIFF TO STIFF CONSISTENCY AND DAMP TO MOIST CONDITIONS TO ELEVATION 733.3 AND 735.3 FEET, RESPECTIVELY. BENEATH THE COHESIVE SOIL NON-COHESIVE SOILS CONSISTING OF GRAVEL AND STONE FRAGMENTS (A-1-a), GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-b) AND GRAVEL WITH STONE FRAGMENTS WITH SAND AND SILT (A-2-4) IN VERY LOOSE TO VERY DENSE COMPACTNESS AND DAMP TO MOIST TO WET CONDITIONS WAS ENCOUNTERED. COBBLES AND BOULDERS WERE ALSO NOTED IN THESE LAYERS. B-005 ENCOUNTERED NON-COHESIVE SOILS CONSISTING OF GRAVEL AND STONE FRAGMENTS (A-1-a), GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-b) AND GRAVEL WITH STONE FRAGMENTS WITH

NOTES CONTINUED ON SHEET 2.

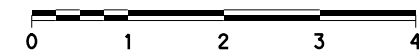
LEGEND		ODOT CLASS	CLASSIFIED MECH./VISUAL
SYMBOLS	DESCRIPTION		
	GRAVEL AND STONE FRAGMENTS	A-1-a	5 8
	GRAVEL AND STONE FRAGMENTS WITH SAND	A-1-b	14 7
	COARSE AND FINE SAND	A-3a	2 1
	GRAVEL AND STONE FRAGS. WITH SAND & SILT	A-2-4	6 9
	SANDY SILT	A-4a	22 46
	SILT AND CLAY	A-6a	18 40
	CLAY	A-7-6	1 -
		TOTAL	68 111
	COBBLES AND BOULDERS	VISUAL	
	PAVEMENT OR BASE = X = APPROXIMATE THICKNESS	VISUAL	
	SOD AND TOPSOIL = X = APPROXIMATE THICKNESS	VISUAL	
	BORING LOCATION - PLAN VIEW.		
	HISTORIC BORING LOCATION - PLAN VIEW - FRA-315-6.98, 1971		
	DRIVE SAMPLE AND/OR ROCK CORE BORING PLOTTED TO VERTICAL SCALE ONLY. HORIZONTAL BAR INDICATES A CHANGE IN STRATIGRAPHY.		
WC	INDICATES WATER CONTENT IN PERCENT.		
N ₆₀	INDICATES STANDARD PENETRATION RESISTANCE NORMALIZED TO 60% DRILL ROD ENERGY RATIO.		
X/Y/Z	NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT): X= NUMBER OF BLOWS FOR FIRST 6 INCHES. Y= NUMBER OF BLOWS FOR SECOND 6 INCHES. Z= NUMBER OF BLOWS FOR THIRD 6 INCHES.		
X/Y/D"	NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT): X= NUMBER OF BLOWS FOR 6 INCHES (UNCORRECTED). Y/D"= NUMBER OF BLOWS (UNCORRECTED) FOR D" OF PENETRATION AT REFUSAL.		
	INDICATES STATIC WATER ELEVATION.		
	INDICATES FREE WATER ELEVATION.		
SPT	INDICATES STANDARD PENETRATION TESTING.		
	INDICATES A PLASTIC MATERIAL WITH A MOISTURE CONTENT EQUAL TO OR GREATER THAN THE LIQUID LIMIT MINUS 3.		
	INDICATES A NON-PLASTIC MATERIAL WITH A MOISTURE CONTENT GREATER THAN 25 % OR GREATER THAN 19 % WITH A WET APPEARANCE.		
SS	INDICATES A SPLIT SPOON SAMPLE.		
NP	INDICATES A NON-PLASTIC SAMPLE.		
LOI	INDICATES ORGANIC CONTENT BY LOSS ON IGNITION (AASHTO T267).		

RECON.	-	AJ	09/06/16
DRILLING	-	JC	09/07-09/08/16 & 09/12-09/15/16
		JC	ALSO 09/17/16 & 09/19/16
DRILLING	-	KAM	09/20-09/22/16
DRAWN	-	BKL	09/2018
REVISED	-	ARR	05/2020
REVIEWED	-	ST	09/2018

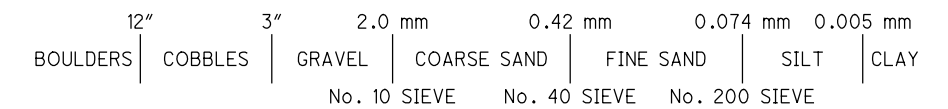


LOCATION MAP

SCALE IN MILES



PARTICLE SIZE DEFINITIONS



SYMBOLS	HISTORIC BORING DESCRIPTIONS	ODOT CLASS	CLASSIFIED MECH./VISUAL
	GRAVEL AND STONE FRAGMENTS	A-1-a	2 -
	GRAVEL AND STONE FRAGMENTS WITH SAND	A-1-b	2 -
	COARSE AND FINE SAND	A-3a	2 -
	GRAVEL AND STONE FRAGS. WITH SAND & SILT	A-2-4	3 -
	GR. AND ST. FRAGS. WITH SAND, SILT & CLAY	A-2-6	1 -
	SANDY SILT	A-4a	2 -
	SILT	A-4b	1 -
	SILT AND CLAY	A-6a	3 -
		TOTAL	16 -

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DESIGN AGENCY
OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF GEOTECHNICAL ENGINEERING
1960 W. BROAD ST. COLUMBUS, OH 43223

PID NO.
106877

STRUCTURE FOUNDATION EXPLORATION
FRA-315-7.13 NOISE WALLS

FRA-315-7.13
NOISE WALLS



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EXPLORATION FINDINGS (CONTINUED)

SAND AND SILT (A-2-4) IN MEDIUM DENSE TO VERY DENSE COMPACTNESS AND DAMP TO WET CONDITION. BORINGS B-008 THROUGH B-017 ENCOUNTERED PREDOMINATELY COHESIVE SOILS CONSISTING OF SANDY SILT (A-4a) AND SILT AND CLAY (A-6a) AND CLAY (A-7-6) WHICH RANGED FROM SOFT TO HARD IN CONSISTENCY AND WAS DAMP TO MOIST IN CONDITIONS. B-008 ENCOUNTERED A DENSE GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-b) AT ELEVATION 721.2 FEET. B-010 ENCOUNTERED DENSE GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-b) AND COARSE AND FINE SAND (A-3a) BELOW ELEVATION 720.2 FEET. B-011 ENCOUNTERED A CONCRETE OBSTRUCTION AT 5 FEET AND WAS OFFSET (B-011-1) WHICH ENCOUNTERED LOOSE GRAVEL AND STONE FRAGMENTS BENEATH THE ASPHALT TO ELEVATION 740.5 FEET AND MEDIUM DENSE GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-b) BELOW ELEVATION 720.5 FEET. B-013 ENCOUNTERED COARSE AND FINE SAND (A-3a) BELOW ELEVATION 723.7 FEET, AND B-012 ENCOUNTERED MEDIUM DENSE GRAVEL WITH STONE FRAGMENTS WITH SAND (A-1-b) BENEATH THE PAVEMENT TO ELEVATION 741.9 FEET. B-014 ENCOUNTERED STIFF CLAY (A-7-6) BELOW ELEVATION 729.9 FEET. COBBLES AND/OR BOULDERS WERE NOTED DURING THE DRILLING IN B-013 THROUGH B-017.

STATIC WATER LEVELS WERE RECORDED AT COMPLETION OF DRILLING IN B-001 THROUGH B-008, B-010, B-012, AND B-013 BETWEEN ELEVATION 721.7 AND 731.0 FEET. THE REMAINDER OF THE BORINGS WERE REPORTED AS BEING DRY AT COMPLETION.

HISTORICAL BORING B-002-0-71 WAS UTILIZED FOR CURRENT DESIGN PURPOSES. THE BORING REPORTED ENCOUNTERING 0.1 FEET OF SOD (TOPSOIL) UNDERLAIN BY PREDOMINATELY COHESIVE SOILS CONSISTING OF SANDY SILT (A-4a) AND SILT AND CLAY (A-6a) WITH ALTERNATING NON-COHESIVE LAYERS OF GRAVEL WITH SAND AND SILT (A-2-4), GRAVEL WITH SAND, SILT, AND CLAY (A-2-6), COARSE AND FINE SAND (A-3a), AND SILT (A-4b). NO WATER WAS REPORTED WITHIN THE BORING.

SPECIFICATIONS

THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS, DATED JULY 15, 2016.

AVAILABLE INFORMATION

ALL AVAILABLE SOIL AND BEDROCK INFORMATION THAT CAN BE CONVENIENTLY SHOWN ON THE GEOTECHNICAL EXPLORATION SHEETS HAS BEEN SO REPORTED. ADDITIONAL EXPLORATIONS MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE OR THE OFFICE OF GEOTECHNICAL ENGINEERING AT 1980 WEST BROAD STREET.

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**STRUCTURE FOUNDATION EXPLORATION
FRA -315 -7 .13 NOISE WALLS**

**FRA -315 -7 .13
NOISE WALLS**

2 / 17





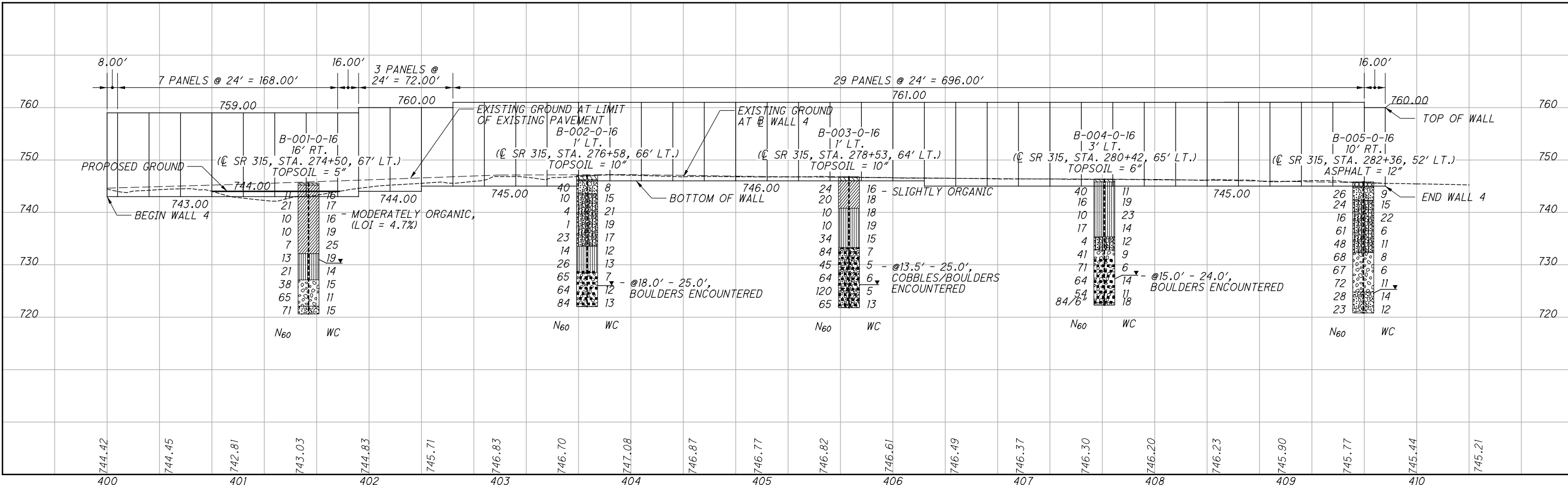
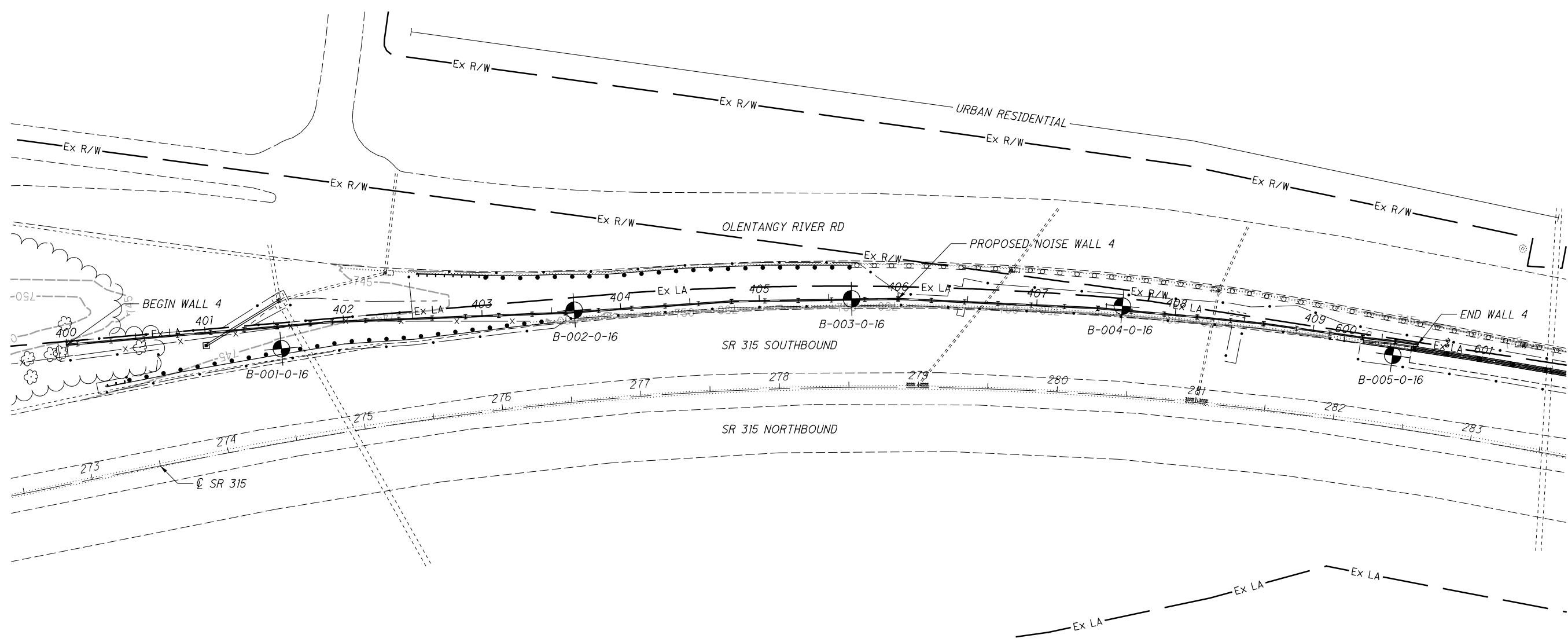
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**STRUCTURE FOUNDATION EXPLORATION
FRA-315-7.13 NOISE WALL NO. 4**

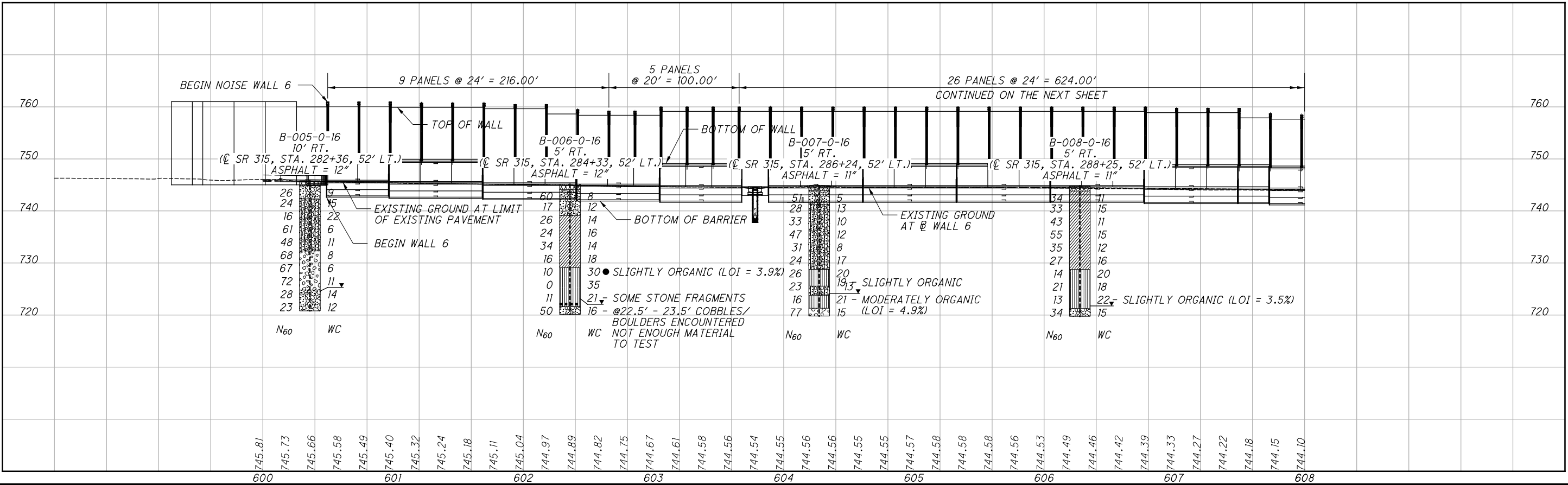
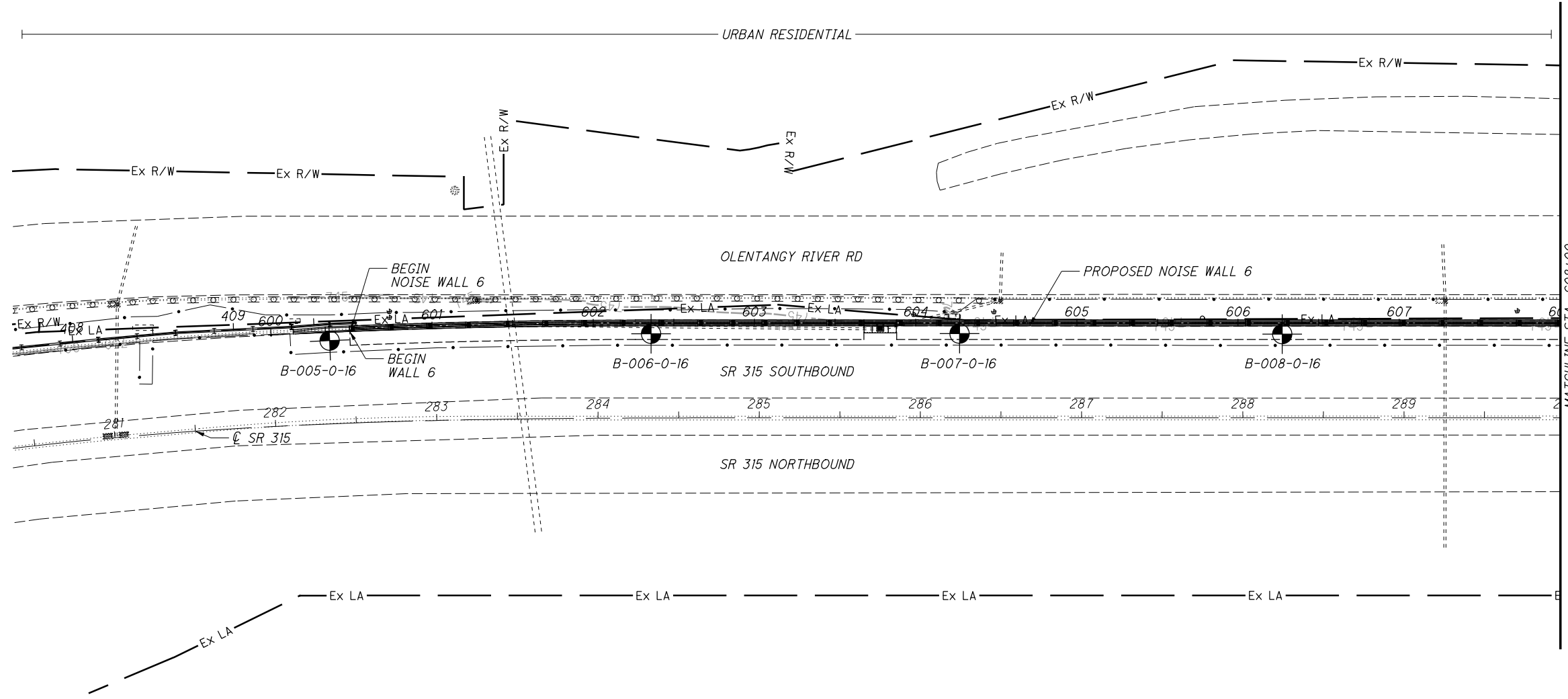
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NOISE WALLS**



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20 HORIZONTAL SCALE IN FEET

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STRUCTURE FOUNDATION EXPLORATION

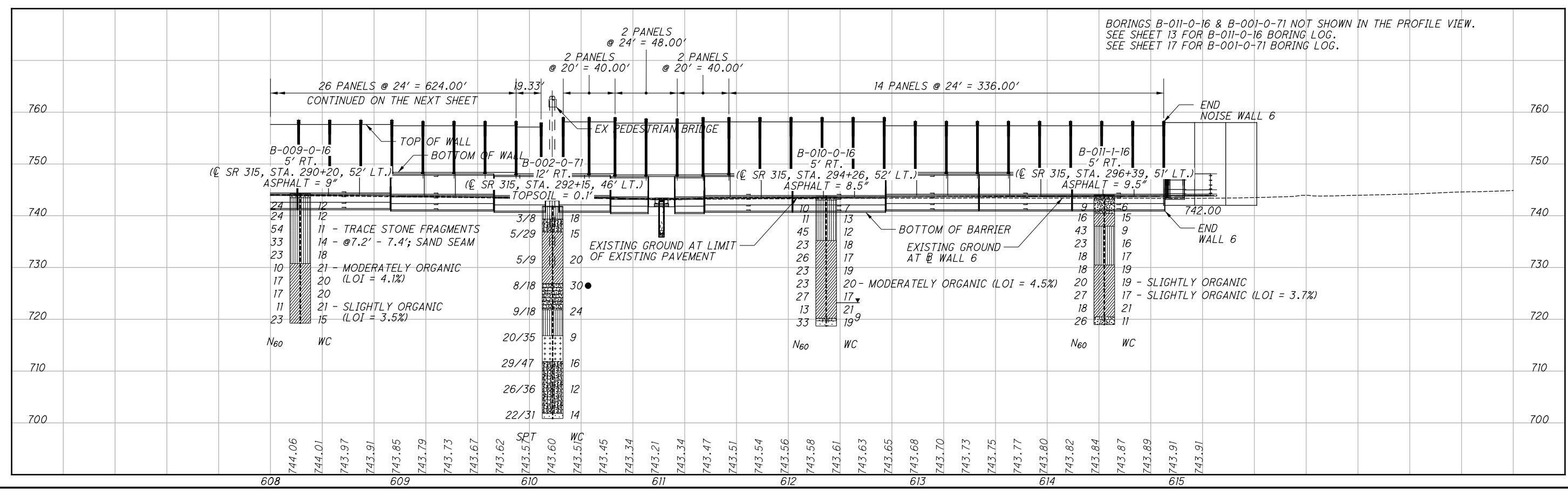
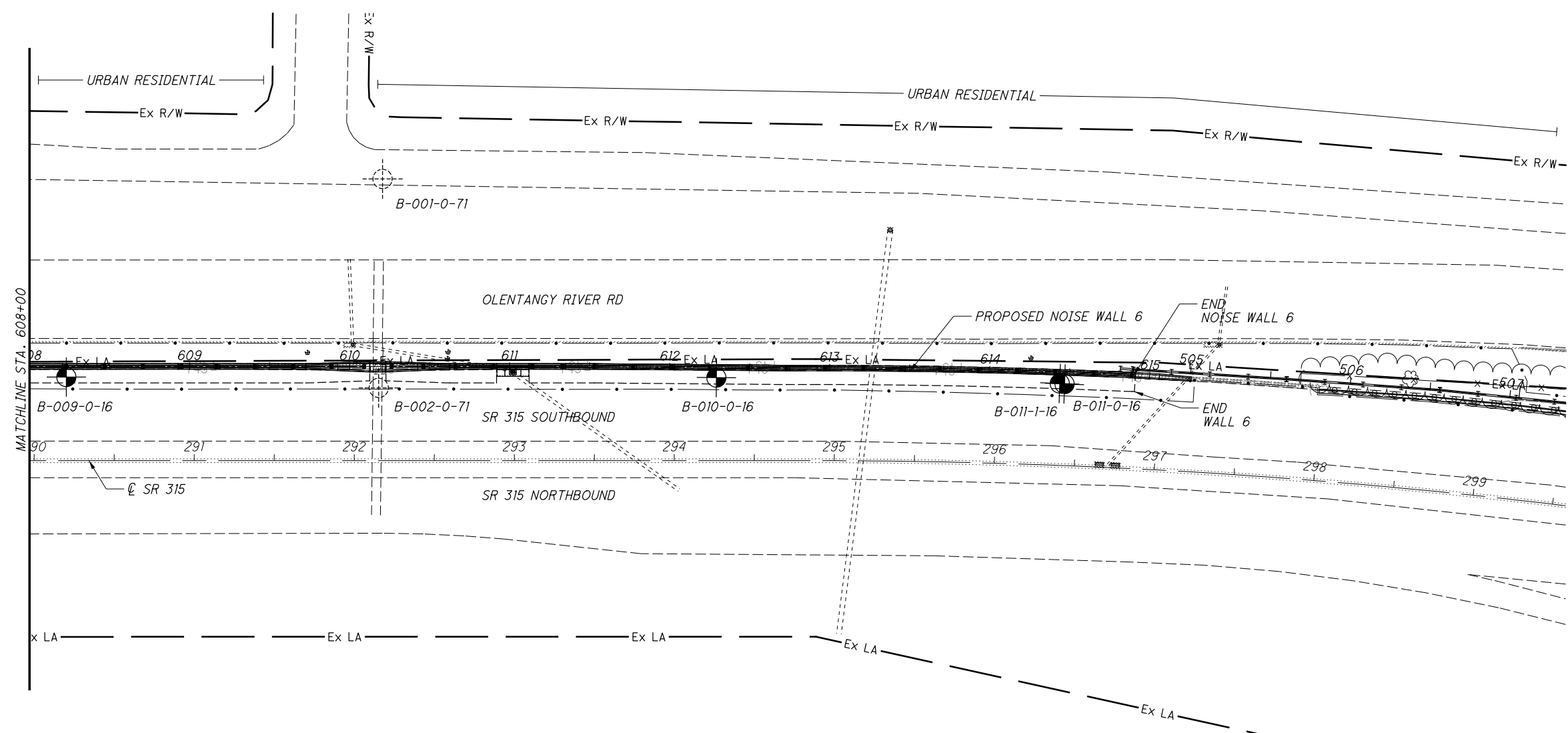
FRA - 315-7.13 NOISE WALL NO. 6

FRA - 315-7.13

NOISE WALLS

4 / 17

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HORIZONTAL SCALE IN FEET

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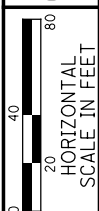
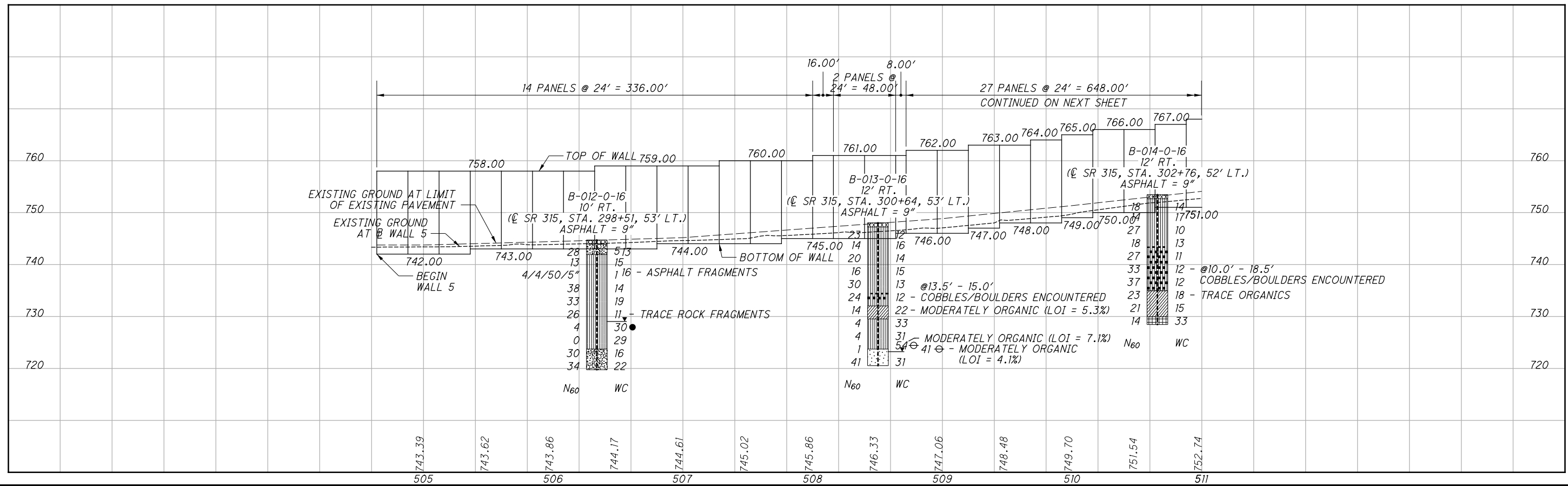
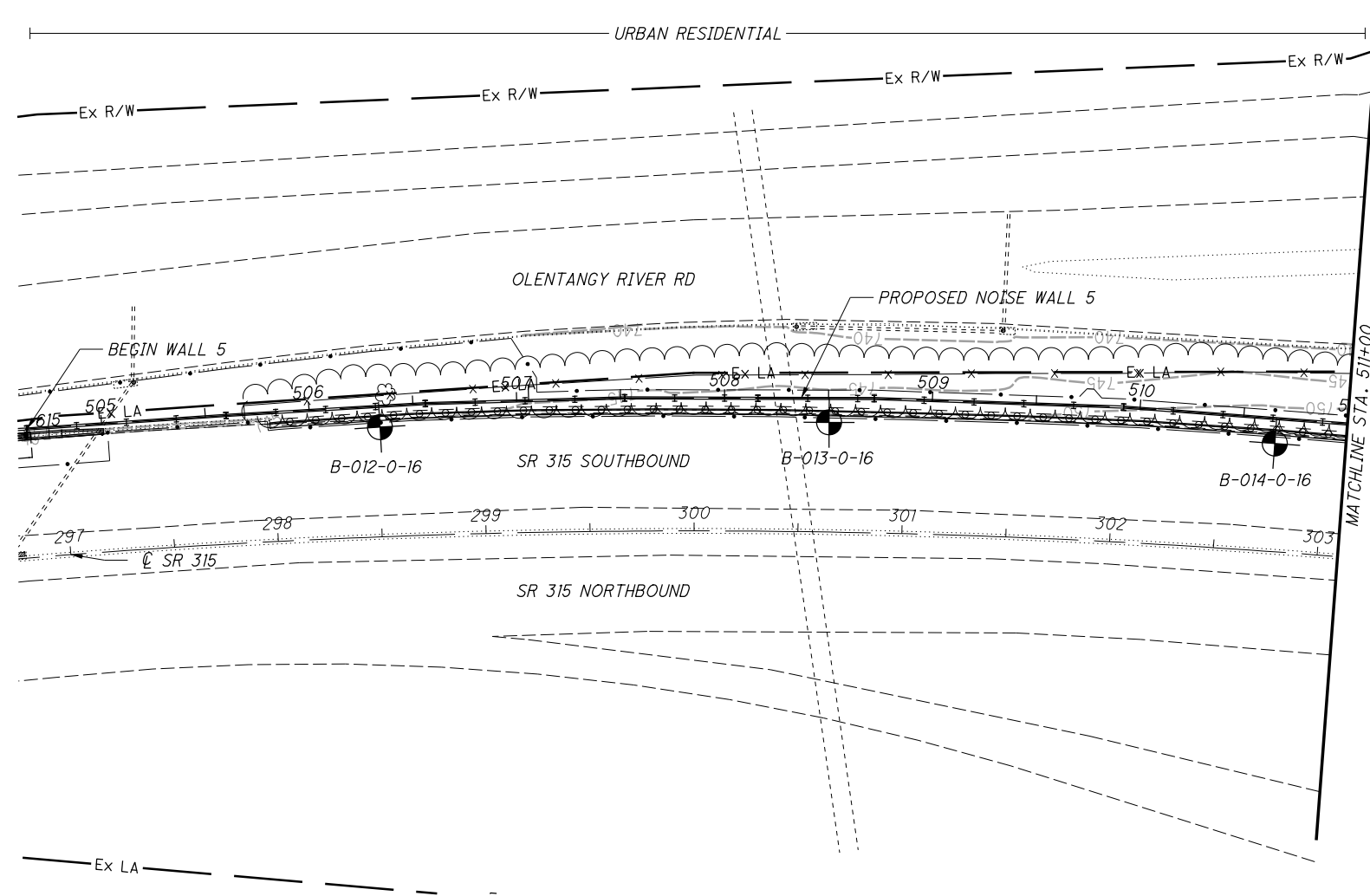
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FRA-315-7.13

NOISE WALLS

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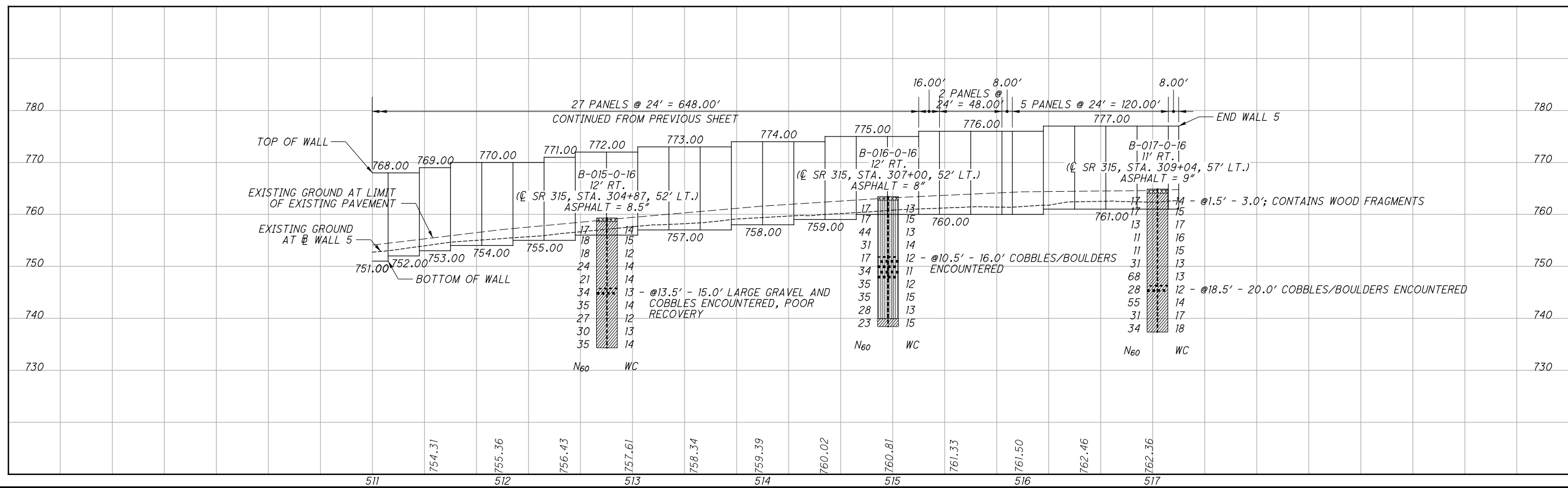
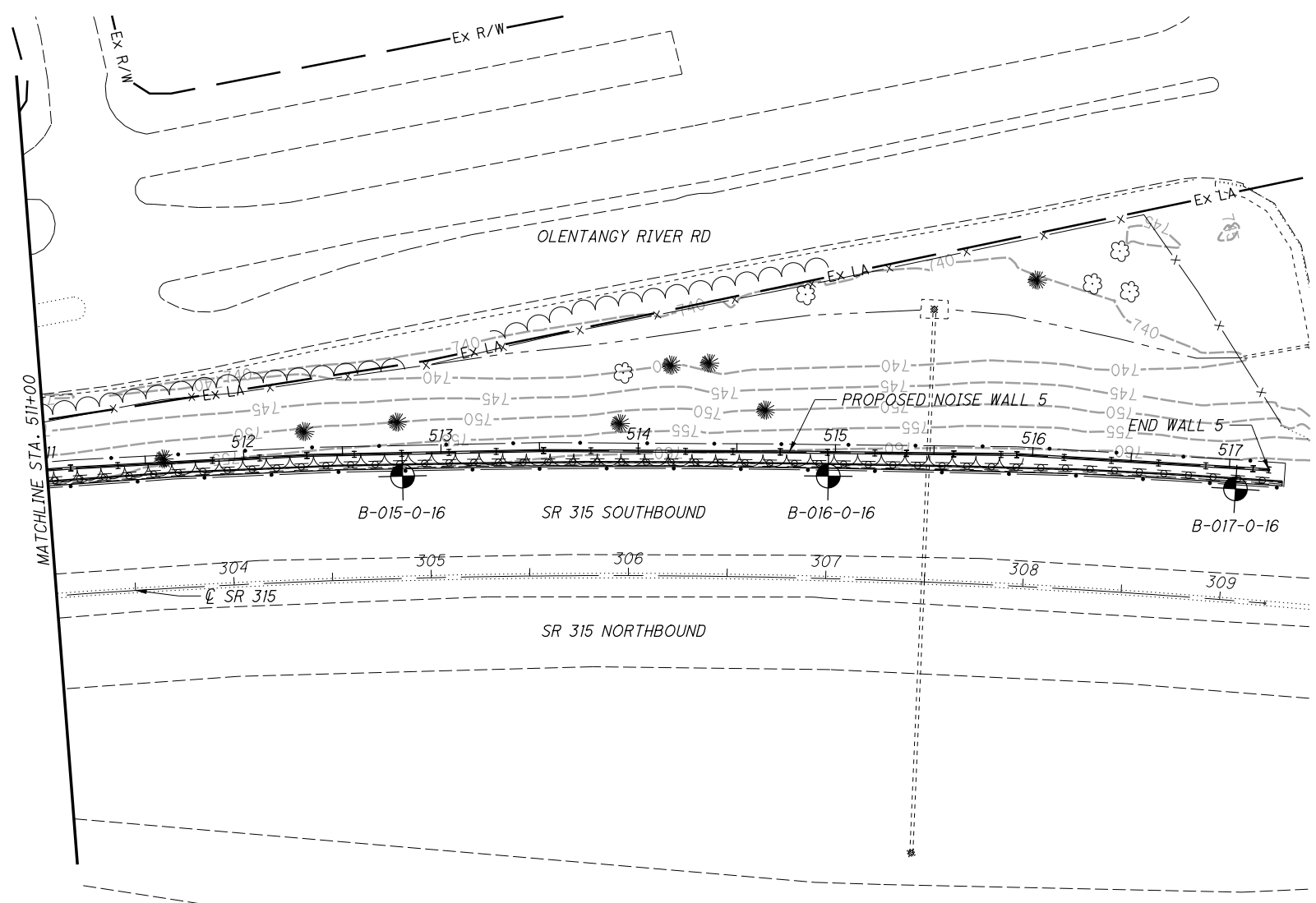
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STRUCTURE FOUNDATION EXPLORATION
FRA-315-7.13 NOISE WALL NO. 5

FRA-315-7.13
NOISE WALLS



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STRUCTURE FOUNDATION EXPLORATION
FRA-315-7.13 NOISE WALL NO. 5

FRA-315-7.13
NOISE WALLS

PROJECT: TYPE: PID: START:	FRA-315-07.13 NOISE WALL 106877 SFN: 9/12/16 END:	DRILLING FIRM / OPERATOR: SAMPLING FIRM / LOGGER: DRILLING METHOD: SAMPLING METHOD:	ODOT / CAREY ODOT / CHUDZIK 3.25" HSA SPT	ELEV. 745.6 745.2	DEPTHS	SPT/ RQD	N ₆₀	REC SAMPLE (%)	HP (tsf)	STATION / OFFSET:										EXPLORATION ID B-001-0-16	
										ALIGNMENT:		ELEVATION:		LAT / LONG:		ATTERBERG		GRADATION (%)			WC
										GR	CS	FS	SI	CL	LL	PL	PI	WC	ODOT CLASS (GI)	BACK FILL	
MATERIAL DESCRIPTION AND NOTES					1																
TOPSOIL (5") VERY STIFF, BROWN, SILT AND CLAY. SOME SAND, TRACE GRAVEL, MODERATELY ORGANIC (LOI = 4.7%), MOIST					2	3	11	14	SS-1A	2.50	5	8	14	37	36	27	16	11	16	A-6a (8)	
					3	5															
					4	5	7	21	SS-2A	3.50										A-6a (V)	
					5	8															
					6	2	3	10	SS-3A	2.75										A-6a (V)	
					7	4															
					8																
@8.5'; STIFF, DARK BROWN AND DARK GRAY					9	3	10	78	SS-4A	1.75										A-6a (V)	
					10	4															
					11	1	2	7	SS-5A	1.00										A-6a (V)	
					12	3															
					13																
STIFF, DARK BROWN, SANDY SILT, SOME GRAVEL, LITTLE CLAY. DAMP TO MOIST					14	6	3	13	SS-6A	1.00	31	17	15	23	14	27	18	9	19	A-4a (0)	
					15	6															
					16	9	8	21	SS-7A	1.00										A-4a (V)	
					17	7															
					18																
DENSE TO VERY DENSE, BROWN, GRAVEL AND STONE FRAGMENTS, LITTLE SAND, TRACE SILT, TRACE CLAY, WET					19	5	9	38	SS-8A	-										A-1-a (V)	
					20	18															
					21	9	22	65	SS-9A	-	74	11	4	8	3	NP	NP	NP	11	A-1-a (0)	
					22	24															
					23																
					24	17	24	71	SS-10A	-	33	42	10	10	5	NP	NP	NP	15	A-1-b (0)	
					25	26															
					EOB																

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 09/06/18 12:53 - X:\GINT\PROJECTS\2016 COMPLETE\600282.GPJ

NOTES: BORING LOCATION FROM CONSULTANT SURVEY. CL WALL 4. STA. 401+54.16' RT.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 200 LB. BENTONITE CHIPS

PROJECT: TYPE: PID: START:	FRA-315-07.13 NOISE WALL 106877 SFN: 9/22/16 END:	DRILLING FIRM / OPERATOR: SAMPLING FIRM / LOGGER: DRILLING METHOD: SAMPLING METHOD:	ODOT / CAREY ODOT / MCLEISH 3.25" HSA SPT	ELEV. 747.0 746.2	DEPTHS	SPT/ RQD	N ₆₀	REC SAMPLE (%)	HP (tsf)	STATION / OFFSET:										EXPLORATION ID B-002-0-16		
										ALIGNMENT:		ELEVATION:		LAT / LONG:		ATTERBERG		GRADATION (%)			WC	
										GR	CS	FS	SI	CL	LL	PL	PI	WC	ODOT CLASS (GI)	BACK FILL		
MATERIAL DESCRIPTION AND NOTES					1																	
TOPSOIL (10") DENSE, BROWN AND GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, DAMP					2	11	18	40	SS-1A	-	67	10	6	11	6	21	16	5	8	A-1-b (0)		
					3	10																
					4	3	10	100	SS-2A	-	61	7	7	15	10	26	17	9	15	A-2-4 (0)		
					5	4																
LOOSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, DAMP					6	1	1	4	SS-3A	-										A-2-4 (V)		
					7	2																
@6.0'; VERY LOOSE, MOIST					8																	
					9	0	0	1	SS-4A	-										A-2-4 (V)		
					10	1																
@11.0'; MEDIUM DENSE					11	1	6	23	SS-5A	-										A-2-4 (V)		
					12	10																
					13																	
VERY STIFF, DARK GRAY, SANDY SILT, "AND" GRAVEL, LITTLE CLAY, DAMP					14	5	5	14	SS-6A	2.50	38	6	10	27	19	21	15	6	12	A-4a (2)		
					15	5																
					16	4	9	26	SS-7A	3.00										A-4a (V)		
@16.0'; DARK GRAY TO BROWN					17	9																
					18																	
VERY DENSE, BROWN TO BLACK, GRAVEL AND STONE FRAGMENTS, LITTLE SAND, LITTLE SILT, TRACE CLAY, DAMP TO MOIST					19	20	26	65	SS-8A	-	69	12	7	9	3	NP	NP	NP	7	A-1-a (0)		
					20	20																
@18.0' - 25.0'; BOULDERS ENCOUNTERED @21.0'; WET					21	12	22	64	SS-9A	-											A-1-a (V)	
					22	23																
					23																	
					24	31	37	84	SS-10A	-										A-1-a (V)		
					25	22																
					EOB																	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 09/06/18 12:53 - X:\GINT\PROJECTS\2016 COMPLETE\600282.GPJ

NOTES: BORING LOCATION FROM CONSULTANT SURVEY. CL WALL 4. STA. 403+66.1' LT.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 100 LB. BENTONITE CHIPS



FRA -315-7.13
NOISE WALLS

STRUCTURE FOUNDATION EXPLORATION
FRA -315-7.13 NOISE WALL NO. 4
BORING LOGS B-001-0-16 & B-002-0-16

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PROJECT: TYPE: PID: START:	FRA-315-07.13 NOISE WALL 106877 9/21/16	END: 9/21/16	N/A	DRILLING FIRM / OPERATOR: SAMPLING FIRM / LOGGER: DRILLING METHOD: SAMPLING METHOD:	ODOT / CAREY ODOT / MCLEISH 3.25" HSA SPT	ELEV. 746.8 746.0 740.8 733.3 721.8	DEPTHS	STATION / OFFSET:											EXPLOSION ID B-003-0-16						
								ALIGNMENT:			GRADATION (%)			ATTERBERG			WC								
MATERIAL DESCRIPTION AND NOTES								SPT/ RQD	N ₆₀	REC SAMPLE ID	HP (tsf)	GR	CS	FS	SI	CL	LL	PL	PI	WC	ODOT CLASS (GI)	BACK FILL			
TOPSOIL (10')								1																	
VERY STIFF, BROWN, SILT AND CLAY. SOME STONE FRAGMENTS, LITTLE SAND, SLIGHTLY ORGANIC, DAMP								6	9	24	78	24	4	14	34	24	34	19	15					16	A-6a (7)
@3.5'; NO ORGANICS								5	6	20	100												18	A-6a (V)	
VERY STIFF, BROWN, SANDY SILT, SOME GRAVEL, SOME CLAY, DAMP								4	3	10	94	32	6	10	30	22	18	8						18	A-4a (3)
@11.0'; BROWN TO GRAYISH BROWN								2	3	10	100												19	A-4a (V)	
VERY DENSE, BROWN WITH GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, DAMP								4	10	34	100													15	A-4a (V)
@13.5' - 25.0'; ENCOUNTERED BOULDERS/COBBLES								24	32	84	44												7	A-1-b (V)	
@18.5'; GRAYISH BROWN, MOIST								20	17	45	100												5	A-1-b (0)	
@23.5'; GRAY, WET								26	19	64	89												6	A-1-b (V)	
								21	48	120	11											5	A-1-b (V)		
								23	21	65	100												13	A-1-b (V)	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 09/06/18 12:53 - X:\GINT\PROJECTS\2016 COMPLETE\60282.GPJ

NOTES: BORING LOCATION FROM CONSULTANT SURVEY. CL WALL 4, STA. 405+66, 1' LT. ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

PROJECT: TYPE: PID: START:	FRA-315-07.13 NOISE WALL 106877 9/21/16	END: 9/21/16	N/A	DRILLING FIRM / OPERATOR: SAMPLING FIRM / LOGGER: DRILLING METHOD: SAMPLING METHOD:	ODOT / CAREY ODOT / MCLEISH 3.25" HSA SPT	ELEV. 746.3 745.8 735.3 732.8 722.8 722.3	DEPTHS	STATION / OFFSET:											EXPLOSION ID B-004-0-16							
								ALIGNMENT:			GRADATION (%)			ATTERBERG			WC									
MATERIAL DESCRIPTION AND NOTES								SPT/ RQD	N ₆₀	REC SAMPLE ID	HP (tsf)	GR	CS	FS	SI	CL	LL	PL	PI	WC	ODOT CLASS (GI)	BACK FILL				
TOPSOIL (6')								1																		
VERY STIFF, BROWN, SANDY SILT, SOME GRAVEL, LITTLE CLAY, DAMP								15	16	40	89	25	11	15	31	18	24	17	7						11	A-4a (3)
@3.5'; STIFF, REDDISH BROWN, DAMP TO MOIST								5	5	16	56														19	A-4a (V)
VERY LOOSE, REDDISH BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, TRACE CLAY, DAMP								3	3	10	100														23	A-4a (V)
DENSE, REDDISH BROWN, GRAVEL AND STONE FRAGMENTS, SOME SAND, TRACE SILT, TRACE CLAY, DAMP								5	6	17	100													14	A-4a (V)	
@15.0' - 24.0'; ENCOUNTERED BOULDERS								2	2	4	100													12	A-2-4 (0)	
@16.0'; VERY DENSE, BROWN AND GRAY								10	12	41	89														9	A-1-a (V)
@18.5'; WET								20	26	71	89													6	A-1-a (0)	
VERY DENSE, GRAYISH BROWN, SANDY SILT, SOME GRAVEL, LITTLE CLAY, WET								21	19	64	67														14	A-1-a (V)
								11	17	54	67													11	A-1-a (V)	
								21	84		100													18	A-4a (2)	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 09/06/18 12:53 - X:\GINT\PROJECTS\2016 COMPLETE\60282.GPJ

NOTES: BORING LOCATION FROM CONSULTANT SURVEY. CL WALL 4, STA. 407+62, 3' LT. ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 100 LB. BENTONITE CHIPS

PROJECT: TYPE: PID: START:	FRA-315-07.13 NOISE WALL 106877 9/20/16	END: 9/20/16	N/A	DRILLING FIRM / OPERATOR: SAMPLING FIRM / LOGGER: DRILLING METHOD: SAMPLING METHOD:	ODOT / CAREY 3.25" HSA SPT	ELEV. 745.8 744.8 742.3 732.3 724.8 720.8	DEPTHS	SPT/ RQD	N ₆₀	REC SAMPLE (%)	HP (tsf)	GRADATION (%)						WC	EXPLORATION ID B-005-0-16
												GR	CS	FS	SI	CL	LL		
MATERIAL DESCRIPTION AND NOTES																			
ASPHALT (12")																			
MEDIUM DENSE, BROWN AND GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, DAMP																			
MEDIUM DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, DAMP																			
@6.0'; REDDISH BROWN, MOIST																			
@8.5'; VERY DENSE, BROWN AND GRAY, DAMP																			
@11.0'; DENSE, REDDISH BROWN																			
VERY DENSE, BROWN AND BLACK, GRAVEL AND STONE FRAGMENTS, LITTLE SAND, TRACE SILT, TRACE CLAY, DAMP																			
@18.5'; BROWN, MOIST TO WET																			
MEDIUM DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, WET																			

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 09/06/18 12:53 - X:\GINT\PROJECTS\2016 COMPLETE\600282.GPJ

NOTES: BORING LOCATION FROM CONSULTANT SURVEY. CL WALL 4. STA. 409+59. 10' RT. ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED 3 IN. ASPHALT PATCH; AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

PROJECT: TYPE: PID: START:	FRA-315-07.13 NOISE WALL 106877 9/20/16	END: 9/20/16	N/A	DRILLING FIRM / OPERATOR: SAMPLING FIRM / LOGGER: DRILLING METHOD: SAMPLING METHOD:	ODOT / CAREY 3.25" HSA SPT	ELEV. 745.1 744.1 739.1 729.1 721.6 720.1	DEPTHS	SPT/ RQD	N ₆₀	REC SAMPLE (%)	HP (tsf)	GRADATION (%)						WC	EXPLORATION ID B-006-0-16
												GR	CS	FS	SI	CL	LL		
MATERIAL DESCRIPTION AND NOTES																			
ASPHALT (12")																			
VERY DENSE, BROWN AND GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, DAMP																			
@3.5'; MEDIUM DENSE, BROWN																			
STIFF, BROWN, SILT AND CLAY, SOME GRAVEL, SOME SAND, DAMP																			
@8.5'; DAMP TO MOIST																			
MEDIUM STIFF, GRAY, SANDY SILT, SOME CLAY, LITTLE GRAVEL, SLIGHTLY ORGANIC (LOI = 3.9%), DAMP																			
@21.0'; STIFF, SOME STONE FRAGMENTS																			
@22.5' - 23.5'; ENCOUNTERED BOULDERS/COBBLES																			
DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, (NOT ENOUGH MATERIAL TO TEST), WET																			

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 09/06/18 12:53 - X:\GINT\PROJECTS\2016 COMPLETE\600282.GPJ

NOTES: BORING LOCATION FROM CONSULTANT SURVEY. CL WALL 6. STA. 602+36. 5' RT. ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED 3 IN. ASPHALT PATCH; AUGER CUTTINGS MIXED WITH 100 LB. BENTONITE CHIPS

PROJECT: TYPE: PID: START:	FRA-315-07.13 NOISE WALL 106877 9/19/16	SFN: END:	N/A 9/19/16	DRILLING FIRM / OPERATOR: SAMPLING FIRM / LOGGER: DRILLING METHOD: SAMPLING METHOD:	ODOT / CAREY ODOT / CHUDZIK 3.25" HSA SPT	ELEV. 744.8	DEPTHS	SPT/ RQD	N ₆₀	REC SAMPLE ID	HP (tsf)	GRADATION (%)						WC	ODOT CLASS (GI)	EXPLORATION ID B-007-0-16																															
												GR	CS	FS	SI	CL	LL				PL	PI																													
MATERIAL DESCRIPTION AND NOTES																				STATION / OFFSET: 286+24, 52' LT.		ALIGNMENT: SR 315		ELEVATION: 744.8 (MSL) EOB: 25.0 ft.		LAT / LONG: 40.045433, -83.033572		PAGE 1 OF 1																							
ASPHALT (11")																				744.8		1																													
VERY DENSE, GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, DAMP																				743.9		2		23		51		67		63		13		8		12		4		NP		NP		5		A-1-b (0)					
MEDIUM DENSE, GRAYISH BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, TRACE CLAY, DAMP																				741.3		3		9		11		28		78		57		10		8		16		9		27		17		10		13		A-2-4 (0)	
@6.0'; DENSE																				728.8		4		10		11		33		44		-		-		-		-		-		-		-		-		10		A-2-4 (V)	
@13.5'; MEDIUM DENSE, MOIST																				725.6		5		19		15		47		6		-		-		-		-		-		-		-		-		12		A-2-4 (V)	
VERY STIFF, BROWN AND GRAY, SANDY SILT, LITTLE CLAY, LITTLE GRAVEL, MOIST																				723.8		6		12		11		31		50		-		-		-		-		-		-		-		-		8		A-2-4 (V)	
@18.5'; GRAY, SLIGHTLY ORGANIC MEDIUM DENSE, GRAYISH BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, DAMP																				721.3		7		3		4		24		50		-		-		-		-		-		-		-		-		17		A-2-4 (V)	
STIFF, DARK GRAY, SANDY SILT, SOME GRAVEL, LITTLE CLAY, MODERATELY ORGANIC (LOI = 4.9%), MOIST																				719.8		8		5		8		26		100		-		-		-		-		-		-		-		-		20		A-4a (V)	
VERY DENSE, BROWN AND GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, WET																				719.8		9		9		8		23		100		11		1		37		32		19		26		19		7		19		A-4a (3)	
																				723.8		10		9		8		23		100		46		10		14		19		11		26		19		7		13		A-2-4 (0)	
																				721.3		11		3		5		16		94		23		1		29		28		19		26		19		7		21		A-4a (2)	
																				719.8		12		32		28		77		78		69		10		6		11		4		NP		NP		15		A-1-a (0)			

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 09/08/18 12:53 - X:\GINT\PROJECTS\12016 COMPLETE\600282.GPJ

NOTES: BORING LOCATION FROM CONSULTANT SURVEY. CL WALL 6. STA. 604+27.5' RT. ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED 2 IN. ASPHALT PATCH; AUGER CUTTINGS MIXED WITH 25 LB. BENTONITE CHIPS

PROJECT: TYPE: PID: START:	FRA-315-07.13 NOISE WALL 106877 9/15/16	SFN: END:	N/A 9/19/16	DRILLING FIRM / OPERATOR: SAMPLING FIRM / LOGGER: DRILLING METHOD: SAMPLING METHOD:	ODOT / CAREY ODOT / CHUDZIK 3.25" HSA SPT	ELEV. 744.8	DEPTHS	SPT/ RQD	N ₆₀	REC SAMPLE ID	HP (tsf)	GRADATION (%)						WC	ODOT CLASS (GI)	EXPLORATION ID B-008-0-16																																	
												GR	CS	FS	SI	CL	LL				PL	PI																															
MATERIAL DESCRIPTION AND NOTES																				STATION / OFFSET: 288+25, 52' LT.		ALIGNMENT: SR 315		ELEVATION: 744.8 (MSL) EOB: 25.0 ft.		LAT / LONG: 40.045983, -83.033603		PAGE 1 OF 1																									
ASPHALT (11")																				744.8		1																															
VERY STIFF, BROWN, SILT AND CLAY, SOME GRAVEL AND STONE FRAGMENTS, SOME SAND, DAMP																				743.8		2		5		11		34		72		29		9		13		29		20		28		17		11		11		A-6a (3)			
@6.0'; BROWN AND GRAY MOTTLED																				728.8		3		6		12		33		83		3.00		-		-		-		-		-		-		-		15		A-6a (V)			
@13.5'; STIFF																				721.3		4		12		18		43		67		2.50		-		-		-		-		-		-		-		11		A-6a (V)			
VERY STIFF, DARK GRAYISH BROWN, SANDY SILT, SOME CLAY, LITTLE GRAVEL, DAMP TO MOIST																				721.3		5		10		14		55		83		-		-		-		-		-		-		-		-		15		A-6a (V)			
@18.5'; STIFF, GRAYISH BROWN TO BROWN																				719.8		6		16		13		35		83		2.00		-		-		-		-		-		-		-		12		A-6a (V)			
@21.0'; MEDIUM STIFF, DARK GRAY, SOME GRAVEL, SLIGHTLY ORGANIC (LOI = 3.5%)																				719.8		7		7		9		27		44		1.50		-		-		-		-		-		-		-		16		A-6a (V)			
DENSE, GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, WET																				719.8		8		5		4		14		67		3.50		13		11		12		38		26		29		19		10		20		A-4a (6)	
																				721.8		9		2		5		21		61		1.75		-		-		-		-		-		-		-		18		A-4a (V)			
																				721.8		10		3		4		13		83		0.50		32		4		16		27		21		29		10		22		A-4a (3)			
																				719.8		11		5		12		34		33		-		64		8		12		10		6		NP		NP		15		A-1-b (0)			

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 09/08/18 12:53 - X:\GINT\PROJECTS\12016 COMPLETE\600282.GPJ

NOTES: BORING LOCATION FROM CONSULTANT SURVEY. CL WALL 6. STA. 606+27.5' RT. ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED 3 IN. ASPHALT PATCH; AUGER CUTTINGS MIXED WITH 25 LB. BENTONITE CHIPS

PROJECT:	FRA-315-07.13		DRILLING FIRM / OPERATOR:	ODOT / CAREY		DRILL RIG:	CME 55 TRUCK		STATION / OFFSET:		EXPLORATION ID						
	TYPE:	NOISE WALL		SAMPLING FIRM / LOGGER:	ODOT / CHUDZIK		HAMMER:	CME AUTOMATIC	ALIGNMENT:	SR 315		B-009-0-16					
PID:	106877	SFN:	N/A	DRILLING METHOD:	3.25" HSA	CALIBRATION DATE:	5/27/15	ELEVATION:	744.3 (MSL)	EOB:	25.0 ft.						
START:	9/17/16	END:	9/17/16	SAMPLING METHOD:	SPT	ENERGY RATIO (%):	85	LAT / LONG:	40.046519, -83.033636	PAGE	1 OF 1						
MATERIAL DESCRIPTION AND NOTES																	
ELEV. DEPTHS																	
SPT/ RQD N ₆₀ REC SAMPLE HP GRADATION (%) ATTERBERG ODOT CLASS (GI) BACK FILL																	
GR CS FS SI CL LL PL PI WC																	
ASPHALT (9")																	
VERY STIFF, DARK BROWN, SANDY SILT, SOME GRAVEL AND STONE FRAGMENTS, LITTLE CLAY, DAMP	1																
	2	11	24	94	SS-1A	4.00	27	15	15	26	17	10	12	A-4a (2)			
	3																
	4	5	7	24	78	SS-2A	2.50	-	-	-	-	-	12	A-4a (V)			
	5																
@6.0'; TRACE STONE FRAGMENTS	6																
@7.2' - 7.4'; SAND SEAM	7	6	11	54	78	SS-3A	3.25	-	-	-	-	-	11	A-4a (V)			
	8																
	9	8	12	33	100	SS-4A	3.00	-	-	-	-	-	14	A-4a (V)			
	10																
	11	6	7	23	89	SS-5A	2.50	-	-	-	-	-	18	A-4a (V)			
	12																
	13																
	14	2	3	10	61	SS-6A	0.50	0	5	17	44	34	20	12	21	A-6a (9)	
MEDIUM STIFF, GRAYISH BROWN, SILT AND CLAY, SOME SAND, MODERATELY ORGANIC (LOI = 4.1%), MOIST	15																
	16	0	5	17	67	SS-7A	1.00	-	-	-	-	-	-	20	A-6a (V)		
	17																
	18																
@18.5'; STIFF, GRAYISH BROWN AND BROWN MOTTLED	19	2	5	17	83	SS-8A	1.50	-	-	-	-	-	-	20	A-6a (V)		
	20																
	21	2	2	11	94	SS-9A	1.00	0	1	32	40	27	30	19	11	21	A-6a (7)
@21.0'; SLIGHTLY ORGANIC (LOI = 3.5%)	22																
	23																
	24	20	10	23	72	SS-10A	3.50	-	-	-	-	-	-	15	A-6a (V)		
@23.5'; VERY STIFF, GRAY	25																

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 09/06/18 12:53 - X:\GINT\PROJECTS\2016 COMPLETE\60282.GPJ

NOTES: BORING LOCATION FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION. CL WALL 6. STA. 608+23.5' RT. ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

PROJECT:	FRA-315-07.13		DRILLING FIRM / OPERATOR:	ODOT / CAREY		DRILL RIG:	CME 55 TRUCK		STATION / OFFSET:		EXPLORATION ID						
	TYPE:	NOISE WALL		SAMPLING FIRM / LOGGER:	ODOT / AJ		HAMMER:	CME AUTOMATIC	ALIGNMENT:	SR 315		B-010-0-16					
PID:	106877	SFN:	N/A	DRILLING METHOD:	3.25" HSA	CALIBRATION DATE:	5/27/15	ELEVATION:	743.7 (MSL)	EOB:	25.0 ft.						
START:	9/14/16	END:	9/14/16	SAMPLING METHOD:	SPT	ENERGY RATIO (%):	85	LAT / LONG:	40.047633, -83.033699	PAGE	1 OF 1						
MATERIAL DESCRIPTION AND NOTES																	
ELEV. DEPTHS																	
SPT/ RQD N ₆₀ REC SAMPLE HP GRADATION (%) ATTERBERG ODOT CLASS (GI) BACK FILL																	
GR CS FS SI CL LL PL PI WC																	
ASPHALT (8.5")																	
STIFF, BROWN AND GRAY, SANDY SILT, "AND" STONE FRAGMENTS, LITTLE CLAY, DAMP	1																
	2	3	4	10	56	SS-1A	2.00	44	11	9	23	13	22	15	7	7	A-4a (0)
	3																
	4	3	4	11	61	SS-2A	0.75	38	11	11	24	16	26	17	9	13	A-4a (1)
@3.5'; MEDIUM STIFF, BROWN	5																
	6	19	17	45	100	SS-3A	4.00	-	-	-	-	-	-	-	-	12	A-4a (V)
@6.0'; HARD	7																
	8																
	9	6	7	23	89	SS-4A	4.00	8	4	17	39	32	31	17	14	18	A-6a (9)
VERY STIFF, BROWN AND GRAY MOTTLED, SILT AND CLAY, SOME SAND, TRACE GRAVEL, MOIST	10																
	11	5	10	26	83	SS-5A	4.00	-	-	-	-	-	-	-	-	17	A-6a (V)
@16.0'; DARK GRAY, MODERATELY ORGANIC (LOI = 4.5%)	12																
	13																
	14	7	7	23	89	SS-6A	3.50	-	-	-	-	-	-	-	-	19	A-6a (V)
	15																
	16	7	7	23	100	SS-7A	2.50	6	3	21	41	29	31	19	12	20	A-6a (8)
@18.5'; STIFF	17																
	18																
	19	4	8	27	83	SS-8A	1.50	-	-	-	-	-	-	-	-	17	A-6a (V)
@21.0'; DARK GRAY AND BROWN MOTTLED	20																
	21	4	4	13	89	SS-9A	2.00	-	-	-	-	-	-	-	-	21	A-6a (V)
	22																
	23																
	24	12	12	33	67	SS-10A	-	60	9	12	14	5	NP	NP	NP	9	A-1-b (0)
DENSE, GRAYISH BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, MOIST	25																
	25																
DENSE, GRAY, COARSE AND FINE SAND, LITTLE SILT, TRACE GRAVEL, TRACE CLAY, WET																	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 09/06/18 12:53 - X:\GINT\PROJECTS\2016 COMPLETE\60282.GPJ

NOTES: BORING LOCATION FROM CONSULTANT SURVEY. CL WALL 6. STA. 612+29.5' RT. ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED 2 IN. ASPHALT PATCH; AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

PROJECT: FRA-315-07.13 TYPE: NOISE WALL	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 296+42.51' LT.	EXPLORATION ID: B-011-0-16
PID: 106877 SFN: N/A	SAMPLING FIRM / LOGGER: ODOT / CHUDZIK	HAMMER: CME AUTOMATIC	ALIGNMENT: SR 315	
START: 9/13/16 END: 9/13/16	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 5/27/15	ELEVATION: 743.9 (MSL) EOB: 5.0 ft.	PAGE: 1 OF 1
	SAMPLING METHOD: SPT	ENERGY RATIO (%): 85	LAT / LONG: 40.048230, -83.033720	
MATERIAL DESCRIPTION AND NOTES				
ASPHALT (8.5")	ELEV. 743.9	SPT/ RQD	GRADATION (%)	ODOT CLASS (GI)
HARD, BROWN, SANDY SILT, "AND" CLAY, TRACE GRAVEL, DAMP TO MOIST	743.2	N ₆₀	GR CS FS SI CL LL PL PI WC	
@3.5'; BROWN TO DARK BROWN	738.9			

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 09/06/18 12:54 - X:\GINT\PROJECTS\2016 COMPLETE\600282.GPJ

NOTES: BORING LOCATION FROM DRILLERS HAND MEASURES OFFSET FROM B-011-1-16. HIT CONCRETE AT 5'. DRILLED OFFSET BORING B-011-1-16. CL WALL 6. STA. 614+47. 6' RT. ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED 2 IN. ASPHALT PATCH; BACKFILLED WITH SOIL CUTTINGS

PROJECT: FRA-315-07.13 TYPE: NOISE WALL	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 296+39.51' LT.	EXPLORATION ID: B-011-1-16
PID: 106877 SFN: N/A	SAMPLING FIRM / LOGGER: ODOT / AJ	HAMMER: CME AUTOMATIC	ALIGNMENT: SR 315	
START: 9/14/16 END: 9/14/16	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 5/27/15	ELEVATION: 744.0 (MSL) EOB: 25.0 ft.	PAGE: 1 OF 1
	SAMPLING METHOD: SPT	ENERGY RATIO (%): 85	LAT / LONG: 40.048222, -83.033721	
MATERIAL DESCRIPTION AND NOTES				
ASPHALT (9.5")	ELEV. 744.0	SPT/ RQD	GRADATION (%)	ODOT CLASS (GI)
LOOSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, DAMP	743.2	N ₆₀	GR CS FS SI CL LL PL PI WC	
HARD, BROWN AND GRAYISH BROWN, SILT AND CLAY, LITTLE SAND, TRACE GRAVEL, DAMP	740.5			
HARD, BROWN, SANDY SILT, SOME STONE FRAGMENTS, LITTLE CLAY, DAMP	738.0			
@8.5'; VERY STIFF, BROWN AND GRAYISH BROWN				
MEDIUM STIFF, BROWN, SILT AND CLAY, SOME SAND, TRACE GRAVEL, MOIST	730.5			
@16.0'; STIFF, GRAY, SLIGHTLY ORGANIC				
@18.5'; VERY STIFF, DARK GRAY AND BROWN MOTTLED, LITTLE GRAVEL, SLIGHTLY ORGANIC (LOI = 3.7%)				
MEDIUM DENSE, DARK GRAY AND BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, DAMP	720.5			
	719.0			

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 09/06/18 12:54 - X:\GINT\PROJECTS\2016 COMPLETE\600282.GPJ

NOTES: BORING LOCATION FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION. CL WALL 6. STA. 614+44. 5' RT. ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED 2 IN. ASPHALT PATCH; AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

PROJECT: FRA-315-07.13 TYPE: NOISE WALL				DRILLING FIRM / OPERATOR: ODOT / CAREY				DRILL RIG: CME 55 TRUCK				STATION / OFFSET: 298+51.53' LT.				EXPLORATION ID																	
PID: 106877 SFN: N/A				SAMPLING FIRM / LOGGER: ODOT / CHUDZIK				HAMMER: CME AUTOMATIC				ALIGNMENT: SR 315				B-012-0-16																	
START: 9/13/16 END: 9/13/16				DRILLING METHOD: 3.25" HSA				CALIBRATION DATE: 5/27/15				ELEVATION: 744.7 (MSL) EOB: 25.0 ft.				PAGE																	
				SAMPLING METHOD: SPT				ENERGY RATIO (%): 85				LAT / LONG: 40.048811, -83.033710				1 OF 1																	
MATERIAL DESCRIPTION AND NOTES																																	
				ELEV. DEPTHS				REC SAMPLE HP				GRADATION (%)				ATTERBERG				ODOT CLASS (G)													
				744.7				N ₆₀ ID (tsf)				GR CS FS SI CL				LL PL PI				WC													
ASPHALT (9")				1																													
MEDIUM DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE SAND, DAMP				2				28				48				NP NP NP				5													
				3				7												13													
				4				4				13				7				15				15									
@6.0'; DARK BROWN, ASPHALT FRAGMENTS				5																													
				6				4												16													
@8.5'; HARD, BROWN				7				50.5"												1													
				8																													
@11.0' - 12.5'; STIFF, DARK BROWN				9				15				38								14													
				10				12																									
@13.5'; TRACE ROCK FRAGMENTS				11				9				33								19													
				12				15																									
@16.0'; MEDIUM STIFF, DARK GRAY, NO GRAVEL, WET				13																													
				14				11				26								11													
@23.5'; DENSE, WET				15				7																									
				16				▼ 729.0																									
MEDIUM DENSE, DARK GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, MOIST				17				2				4				0				29				10									
				18				1																									
@23.5'; DENSE, WET				19				0				0																					
				20				0				100				SS-8A				1.00								29					
				21								9				12				9				16									
				22				9				30				61				SS-9A				-				NP NP NP				16	
				23								6				34				61				SS-10A				-				22	
				24				18																									
				25				EOB																									
NOTES: BORING LOCATION FROM CONSULTANT SURVEY. CL WALL 5. STA. 506+34. 10' RT. ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED 2 IN. ASPHALT PATCH; AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS.																																	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 09/08/18 12:54 - X:\GINT\PROJECTS\12016 COMPLETE\60282.GPJ

PROJECT: FRA-315-07.13 TYPE: NOISE WALL				DRILLING FIRM / OPERATOR: ODOT / CAREY				DRILL RIG: CME 55 TRUCK				STATION / OFFSET: 300+64.53' LT.				EXPLORATION ID																																																							
PID: 106877 SFN: N/A				SAMPLING FIRM / LOGGER: ODOT / CHUDZIK				HAMMER: CME AUTOMATIC				ALIGNMENT: SR 315				B-013-0-16																																																							
START: 9/13/16 END: 9/13/16				DRILLING METHOD: 3.25" HSA				CALIBRATION DATE: 5/27/15				ELEVATION: 748.0 (MSL) EOB: 27.5 ft.				PAGE																																																							
				SAMPLING METHOD: SPT				ENERGY RATIO (%): 85				LAT / LONG: 40.049403, -83.033653				1 OF 1																																																							
MATERIAL DESCRIPTION AND NOTES																																																																							
				ELEV. DEPTHS				REC SAMPLE HP				GRADATION (%)				ATTERBERG				ODOT CLASS (G)																																																			
				748.0				N ₆₀ ID (tsf)				GR CS FS SI CL				LL PL PI				WC																																																			
ASPHALT (9")				1																																																																			
VERY STIFF TO HARD, BROWN, SANDY SILT, SOME CLAY, LITTLE GRAVEL, DAMP				2				11				8				23				4.50				13				11				15				34				27				24				15				9				12				A-4a (5)											
				3				8																																																															
				4				6				14				72				SS-2A				3.50																																16															
@8.5'; DARK BROWN				5																																																																			
				6				7				20				78				SS-3A				4.50																												14																			
				7				7																																																															
				8																																																																			
DRILLER NOTED BOULDERS/COBBLES @13.5' - 15.0'				9				4				16				67				SS-4A				3.25																																15															
				10				6																																																															
STIFF, DARK BROWN, SILT AND CLAY, LITTLE SAND, TRACE GRAVEL, MODERATELY ORGANIC (LOI = 5.3%), DAMP				11				3				30				89				SS-5A				4.50																																13															
				12				15																																																															
VERY LOOSE, DARK GRAY, SANDY SILT, LITTLE CLAY, MOIST				13																																																																			
				14				11				24				6				SS-6A				3.50																												12																			
				15				8																																																															
				16				6				14				67				SS-7A				2.00				4				2				15				49				30				34				20				14				22				A-6a (10)							
				17				6																																																															
				18				1				1				4				94				SS-8A				-																								33																			
@23.5'; MODERATELY ORGANIC (LOI = 7.1%), WET				19				0				4				100				SS-9A				-																								31																							
				20				0				3																																																											
VERY LOOSE, DARK GRAY, COARSE AND FINE SAND, LITTLE GRAVEL, LITTLE SILT, TRACE CLAY, MODERATELY ORGANIC (LOI = 4.1%), WET				21				0				1				67				SS-10A				-				0				2				47				34				17				NP				NP				NP				NP				54				A-4a (3)			
				22				1				1				1				1				1				1				1				1				1				1				1				1				1				1				1				41			
@26.0'; DENSE				23																																																																			
				24				5				12				41				6				SS-11A				-																												31															
				25				EOB																																																															
NOTES: BORING LOCATION FROM CONSULTANT SURVEY. CL WALL 5. STA. 508+50. 12' RT. ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED 2 IN. ASPHALT PATCH; AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS.																																																																							

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 09/08/18 12:54 - X:\GINT\PROJECTS\12016 COMPLETE\60282.GPJ

PROJECT: FRA-315-07.13 TYPE: NOISE WALL		DRILLING FIRM / OPERATOR: ODOT / CAREY		DRILL RIG: CME 55 TRUCK		STATION / OFFSET: 302+76.52' LT.		EXPLORATION ID	
PID: 106877 SFN: N/A		SAMPLING FIRM / LOGGER: ODOT / CHUDZIK		HAMMER: CME AUTOMATIC		ALIGNMENT: SR 315		B-014-0-16	
START: 9/8/16 END: 9/8/16		DRILLING METHOD: 3.25" HSA		CALIBRATION DATE: 5/27/15		ELEVATION: 753.5 (MSL) EOB: 25.0 ft.		PAGE	
		SAMPLING METHOD: SPT		ENERGY RATIO (%): 85		LAT / LONG: 40.049986, -83.033551		1 OF 1	
MATERIAL DESCRIPTION AND NOTES		ELEV.		REC SAMPLE ID		GRADATION (%)		ODOT CLASS (GI)	
		753.5		N ₆₀		GR CS FS SI CL LL PL PI WC		WC	
		752.7		HP (tsf)		GR CS FS SI CL LL PL PI WC		WC	
				ID					
		DEPTHS							
		1							
		2		18		7 7 16 37 33 26 16 10		14 A-4a (7)	
		3		7					
		4		14		- - - - -		17 A-4a (V)	
		5		6					
		6		27		- - - - -		10 A-4a (V)	
		7		10					
		8							
		9		18		- - - - -		13 A-4a (V)	
		10		7					
		11		27		- - - - -		11 A-4a (V)	
		12		10					
		13							
		14		33		- - - - -		12 A-4a (V)	
		15		12					
		16		37		- - - - -		12 A-4a (V)	
		17		12					
		18							
		19		23		9 9 15 36 31 31 18 13		18 A-6a (8)	
		20		9					
		21		21		- - - - -		15 A-6a (V)	
		22		9					
		23							
		24		14		0 5 3 50 42 48 26 22		33 A-7-6 (14)	
		25		6					

ASPHALT (9")

HARD, BROWN, SANDY SILT, SOME CLAY, TRACE GRAVEL, DAMP

@3.5' - 6.0'; VERY STIFF

DRILLER NOTED BOULDERS/COBBLES @10.0' - 18.5' BOULDERS/COBBLES

@16.0'; VERY STIFF

VERY STIFF, DARK BROWN, SILT AND CLAY, SOME SAND, TRACE GRAVEL, TRACE ORGANICS

STIFF, DARK BROWN, CLAY, *AND* SILT, TRACE SAND

NOTES: BORING LOCATION FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION. CL WALL 5. STA. 510+66.12' RT. ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 25 LB. BENTONITE CHIPS

PROJECT: FRA-315-07.13 TYPE: NOISE WALL		DRILLING FIRM / OPERATOR: ODOT / CAREY		DRILL RIG: CME 55 TRUCK		STATION / OFFSET: 304+87.52' LT.		EXPLORATION ID	
PID: 106877 SFN: N/A		SAMPLING FIRM / LOGGER: ODOT / CHUDZIK		HAMMER: CME AUTOMATIC		ALIGNMENT: SR 315		B-015-0-16	
START: 9/8/16 END: 9/8/16		DRILLING METHOD: 3.25" HSA		CALIBRATION DATE: 5/27/15		ELEVATION: 759.3 (MSL) EOB: 25.0 ft.		PAGE	
		SAMPLING METHOD: SPT		ENERGY RATIO (%): 85		LAT / LONG: 40.050563, -83.033411		1 OF 1	
MATERIAL DESCRIPTION AND NOTES		ELEV.		REC SAMPLE ID		GRADATION (%)		ODOT CLASS (GI)	
		759.3		N ₆₀		GR CS FS SI CL LL PL PI WC		WC	
		758.6		HP (tsf)		GR CS FS SI CL LL PL PI WC		WC	
		DEPTHS							
		1							
		2		17		9 8 15 38 30 26 15 11		14 A-6a (7)	
		3		7					
		4		18		- - - - -		15 A-6a (V)	
		5		6					
		6		18		- - - - -		12 A-6a (V)	
		7		7					
		8							
		9		24		- - - - -		14 A-6a (V)	
		10		10					
		11		21		- - - - -		14 A-6a (V)	
		12		10					
		13							
		14		34		- - - - -		13 A-6a (V)	
		15		9					
		16		35		7 14 32 28 26 14 12		14 A-6a (6)	
		17		15					
		18							
		19		27		- - - - -		12 A-6a (V)	
		20		11					
		21		30		- - - - -		13 A-6a (V)	
		22		14					
		23							
		24		35		0 5 3 50 42 48 26 22		33 A-7-6 (14)	
		25		15					

ASPHALT (8.5")

VERY STIFF TO HARD, BROWN, SILT AND CLAY, SOME SAND, TRACE GRAVEL, DAMP

POOR RECOVERY DUE TO LARGE GRAVEL AND COBBLES @13.5' - 15.0' LARGE GRAVEL AND COBBLES

@16.0'; LITTLE GRAVEL

NOTES: BORING LOCATION FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION. CL WALL 5. STA. 512+80.12' RT. ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED 2 IN. ASPHALT PATCH; AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

PROJECT:	FRA-315-07.13	DRILLING FIRM / OPERATOR:	ODOT / CAREY	DRILL RIG:	CME 55 TRUCK	STATION / OFFSET:	307+00, 52' LT.	EXPLORATION ID	B-016-0-16									
TYPE:	NOISE WALL	SAMPLING FIRM / LOGGER:	ODOT / CHUDZIK	HAMMER:	CME AUTOMATIC	ALIGNMENT:	SR 315											
PID:	106877 SFN: N/A	DRILLING METHOD:	3.25" HSA	CALIBRATION DATE:	5/27/15	ELEVATION:	763.4 (MSL) EOB: 25.0 ft.		PAGE									
START:	9/7/16 END: 9/7/16	SAMPLING METHOD:	SPT	ENERGY RATIO (%):	85	LAT / LONG:	40.051139, -83.033230		1 OF 1									
MATERIAL DESCRIPTION AND NOTES		ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC SAMPLE (%)	HP (tsf)	GR	CS	FS	SI	CL	LL	PL	PI	WC	ODOT CLASS (GI)	BACK FILL
ASPHALT (8")		763.4	1															
HARD, BROWN, SANDY SILT, SOME CLAY, TRACE GRAVEL, DAMP		762.7	2	7	17	56	SS-1A	10	11	15	36	28	15	8		13	A-4a (6)	
			3	5														
			4	7	17	83	SS-2A	-	-	-	-	-	-	-	-	15	A-4a (V)	
			5	7														
			6	7	12	44	SS-3A	4.50	-	-	-	-	-	-	-	13	A-4a (V)	
			7	12	19													
			8															
@8.5' - 11.0'; STIFF, LARGE GRAVEL IN SPOON			9	17	31	22	SS-4A	1.50	-	-	-	-	-	-	-	14	A-4a (V)	
			10	12	10													
DRILLER NOTED BOULDERS/COBBLES @10.5' - 16.0'			11	6	17	64	SS-5A	4.50	7	10	37	31	25	16	9	12	A-4a (7)	
BOULDERS/COBBLES @11.0'; DARK GRAY			12	5	7													
			13															
@13.5'; LARGE GRAVEL IN END OF SPOON			14	14	34	6	SS-6A	-	-	-	-	-	-	-	-	11	A-4a (V)	
			15	12	12													
@16.0'; BROWN		747.4	16	9	13	35	SS-7A	4.50	-	-	-	-	-	-	-	12	A-4a (V)	
			17	13	12													
			18															
			19	13	35	67	SS-8A	4.50	-	-	-	-	-	-	-	15	A-4a (V)	
			20	13	12													
			21	12	10	28	SS-9A	4.50	-	-	-	-	-	-	-	13	A-4a (V)	
			22	10	10													
		739.9	23															
VERY STIFF, BROWN, SILT AND CLAY, SOME SAND, LITTLE GRAVEL, DAMP		738.4	24	10	23	89	SS-10A	2.50	19	10	33	25	29	16	13	15	A-6a (6)	
			25	8	8													

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 09/06/18 12:54 - X:\GINT\PROJECTS\2016 COMPLETE\600282.GPJ

NOTES: BORING LOCATION FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION. CL WALL 5. STA. 514+96.12' RT. ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED 2 IN. ASPHALT PATCH; AUGER CUTTINGS MIXED WITH 25 LB. BENTONITE CHIPS

PROJECT:	FRA-315-07.13	DRILLING FIRM / OPERATOR:	ODOT / CAREY	DRILL RIG:	CME 55 TRUCK	STATION / OFFSET:	309+04, 57' LT.	EXPLORATION ID	B-017-0-16									
TYPE:	NOISE WALL	SAMPLING FIRM / LOGGER:	ODOT / CHUDZIK	HAMMER:	CME AUTOMATIC	ALIGNMENT:	SR 315											
PID:	106877 SFN: N/A	DRILLING METHOD:	3.25" HSA	CALIBRATION DATE:	5/27/15	ELEVATION:	764.9 (MSL) EOB: 27.5 ft.		PAGE									
START:	9/7/16 END: 9/7/16	SAMPLING METHOD:	SPT	ENERGY RATIO (%):	85	LAT / LONG:	40.051686, -83.033034		1 OF 1									
MATERIAL DESCRIPTION AND NOTES		ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC SAMPLE (%)	HP (tsf)	GR	CS	FS	SI	CL	LL	PL	PI	WC	ODOT CLASS (GI)	BACK FILL
ASPHALT (9")		764.1	1															
VERY STIFF, BROWN, SILT AND CLAY, SOME SAND, TRACE GRAVEL, MOIST @1.5' - 3.0'; CONTAINS WOOD FRAGMENTS			2	3	17	39	SS-1A	3.50	5	8	37	35	27	13	14	14	A-6a (9)	
			3	7														
@3.5' - 6.0'; HARD			4	7	17	50	SS-2A	4.50	-	-	-	-	-	-	-	15	A-6a (V)	
			5	6														
			6	5	13	47	SS-3A	4.00	-	-	-	-	-	-	-	17	A-6a (V)	
			7	4	5													
@8.5'; STIFF			8															
			9	5	11	44	SS-4A	1.00	-	-	-	-	-	-	-	16	A-6a (V)	
			10	4	4													
@13.5'; SOFT			11	3	11	56	SS-5A	1.50	-	-	-	-	-	-	-	15	A-6a (V)	
			12	2	6													
			13															
			14	6	31	42	SS-6A	0.25	-	-	-	-	-	-	-	13	A-6a (V)	
			15	9	13													
@16.0'; HARD			16	4	20	68	SS-7A	4.50	-	-	-	-	-	-	-	13	A-6a (V)	
			17	28														
DRILLER NOTED BOULDERS/COBBLES @18.5' - 20.0'		744.9	18	16	13	28	SS-8A	-	-	-	-	-	-	-	-	12	A-6a (V)	
BOULDERS/COBBLES			19	13	7													
			20															
			21	16	14	55	SS-9A	-	-	-	-	-	-	-	-	14	A-6a (V)	
			22	25														
@23.5'; VERY STIFF, DARK BROWN, LITTLE GRAVEL			23															
			24	10	7	31	SS-10A	3.00	17	9	34	27	31	17	14	17	A-6a (7)	
			25	15														
			26	9	11	34	SS-11A	3.50	-	-	-	-	-	-	-	18	A-6a (V)	
		737.4	27	13														

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT GDT - 09/06/18 12:54 - X:\GINT\PROJECTS\2016 COMPLETE\600282.GPJ

NOTES: BORING LOCATION FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION. CL WALL 5. STA. 517+04.11' RT. ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED 2 IN. ASPHALT PATCH; AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

LOG OF BORING

Date Started 6-7-71 Sampler Type SS Dia 1 3/8" Water Elev N/A
 Date Completed 6-8-71 Casing Length 35' Dia. 3 1/2" Surface Elev 754.3'
 Boring No. B-001-0-71 Station & Offset 0+17, CL. (REAR ABUTMENT)

Elev.	Depth	Std. Pen. (N)	Rec. Loss ft.	Description	Sample No.	Physical Characteristics							SHTL Class.	
						% Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.		W.C.
754.3	0			BLACKTOP										
753.9	2													
751.8	4	6/9		BROWN SANDY CLAY	1	13	7	12	35	33	31	14	23	A-6a
749.3	6	9/12		BROWN SILTY SAND	2	10	42	15	20	13	NP	NP	13	A-3a
744.3	10	20/28		BROWN SILTY SANDY GRAVEL	3	49	12	8	21	10	21	4	10	A-2-4
739.3	16	50/		NO SAMPLE RECOVERED - COBBLES(DRILLER'S DESCRIPTION)	V									
734.3	20	14/11		BROWN SILTY SANDY GRAVEL	4	71	13	6	-10	-	NP	NP	3	A-1-a
729.3	26	45/60		BROWN SILTY SANDY GRAVEL	5	57	10	11	14	8	NP	NP	13	A-1-b
724.3	30	50/61		BROWN SILTY SANDY GRAVEL WITH COBBLES	6	56	17	10	12	5	NP	NP	10	A-1-b
719.3	34													
718.3	36	27/32		GRAY SILTY SANDY GRAVEL	7	65	18	7	-10	-	NP	NP	11	A-1-a

BOTTOM OF BORING

LOG OF BORING

Date Started 6-4-71 Sampler Type SS Dia 1 3/8" Water Elev N/A
 Date Completed 6-4-71 Casing Length 25' Dia. 3 1/2" Surface Elev 742.4'
 Boring No. B-002-0-71 Station & Offset 1+48, CL. (FIRST PIER)

Elev.	Depth	Std. Pen. (N)	Rec. Loss ft.	Description	Sample No.	Physical Characteristics							SHTL Class.	
						% Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.		W.C.
742.4	0			SOD										
742.3	2													
739.9	4	3/8		BROWN SANDY GRAVELLY SILT	1	27	10	14	37	12	25	9	18	A-4a
737.4	6	5/29		BROWN SILTY SANDY GRAVEL	2	45	17	11	18	9	21	7	15	A-2-4
732.4	10	5/9		BROWN GRAVELLY SANDY CLAY	3	19	7	13	36	25	29	12	20	A-6a
727.4	16	8/18		BROWN SANDY CLAY	4	9	14	18	31	28	28	11	30	A-6a
722.4	20	9/18		BROWNISH-GRAY CLAYEY SANDY GRAVEL	5	47	6	12	19	16	28	11	24	A-2-6
717.4	26	20/35		GRAY GRAVELLY SANDY SILT	6	18	10	18	34	20	18	4	9	A-4a
712.4	30	29/47		GRAY SILT	7	5	4	8	72	11	NP	NP	16	A-4b
707.4	36	26/36		GRAY SILTY GRAVELLY SAND	8	29	17	25	19	10	NP	NP	12	A-2-4
702.4	40	22/31		GRAY SILTY SAND	9	11	21	52	9	7	NP	NP	14	A-3a

BOTTOM OF BORING