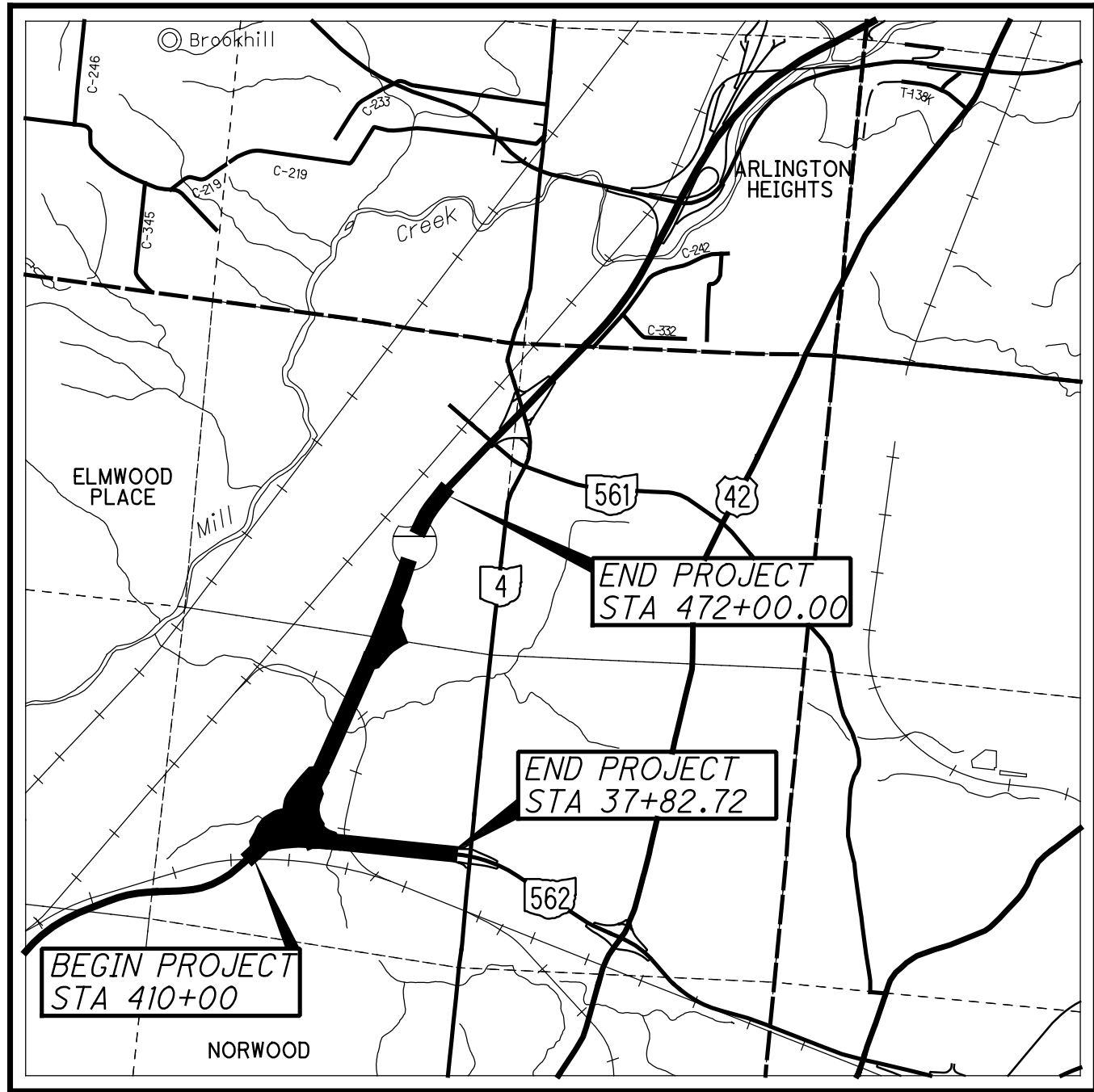


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LOCATION MAP

LATITUDE: N39°11'20" LONGITUDE: W84°28'50"



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

DESIGN DESIGNATION - I.R. 75, S.R. 562 & TOWNE ST

	I.R. 75	S.R. 562	TOWNE ST
CURRENT ADT (2010)	173,800	70,700	8,340
DESIGN YEAR ADT (2030)	203,000	78,000	8,340
DESIGN HOURLY VOLUME (2030)	17,050	7,410	900
DIRECTION DISTRIBUTION	53%	53%	76%
TRUCKS (24 HOUR B&C)	14%	11%	7%
DESIGN SPEED	60	60	40
LEGAL SPEED	55	55	35
DESIGN FUNCTIONAL CLASSIFICATION	01 URBAN INTERSTATE	02 URBAN FREEWAY AND EXPRESSWAY	05 URBAN COLLECTOR
NHS PROJECT	YES	YES	NO

DESIGN EXCEPTIONS

DESIGN FEATURE	APPROVAL DATE	SHEET NUMBERS
SHOULDER WIDTH	3/2/2015	267,270,
STOPPING SIGHT DISTANCE	2/20/2013	270,276,277,283, 279,280

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig

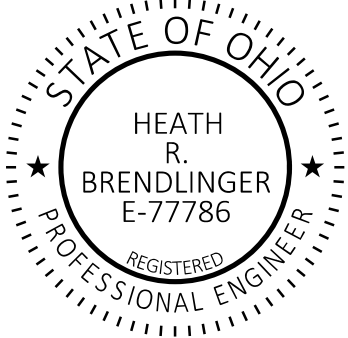
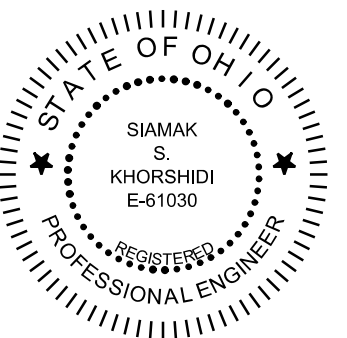
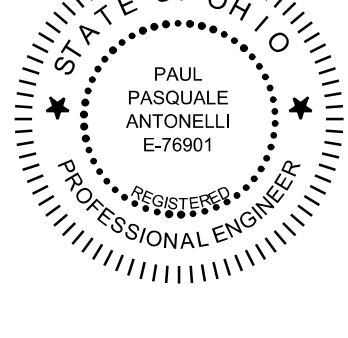
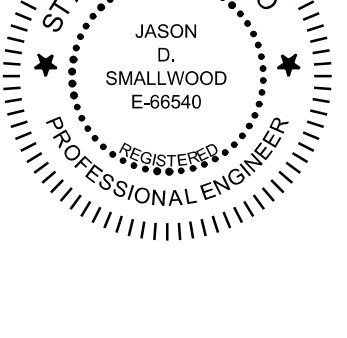
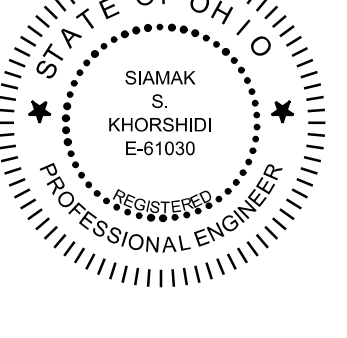

Before You Dig

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

PLAN PREPARED BY:



Evans, Mechwart, Hambleton & Tilton, Inc.
Engineers • Surveyors • Planners • Scientists
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

ENGINEERS SEAL: FOR ROADWAY: 	ENGINEERS SEAL: NOISE WALLS: 1A, 1B-1, 1B-2, 1C, 2A, 2B 	ENGINEERS SEAL: BRIDGES: HAM-562-0004, HAM-75-0791, RET WALL B, RET WALL C, RET WALL D, RET WALL M 	ENGINEERS SEAL: BRIDGES: HAM-75-0823, RET WALL F, RET WALL G 	ENGINEERS SEAL: FOR ITS/LIGHTING, TRAFFIC SIGNALS 	ENGINEERS SEAL: BRIDGE: HAM-75-0857 RETAINING WALLS: S, U, T, H, I 
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STANDARD CONSTRUCTION DRAWINGS																					SPECIAL PROVISIONS			
BP-2.1	1/21/22	CB-6	7/19/24	F-3.1	7/19/13	RM-4.5	1/16/26	HL-10.31	7/15/22	MT-95.30	7/18/25	MT-98.29	1/17/20	MT-110.10	7/19/13	TC-52.20	1/15/21	ITS-18.10	7/16/21	MSD STANDARD DRAWINGS	813	7/21/23		
BP-2.2	1/16/26	CB-8	7/19/24	F-3.3	7/19/13	RM-4.6	7/18/25	HL-20.11	7/21/23	MT-95.31	7/18/25	MT-98.30	7/18/25			TC-61.10	4/21/23	ITS-30.11	1/16/26		821	4/20/12		
BP-2.3	1/16/26			F-3.4	7/19/13			HL-20.13	1/17/25	MT-95.32	7/18/25	MT-99.20	4/19/19	TC-12.31	1/16/26	TC-61.30	7/19/24	ITS-30.12	1/16/26		825	7/19/24		
BP-2.4	7/19/13	DM-1.1	1/17/25					HL-20.21	1/17/25	MT-95.40	7/18/25	MT-99.30	1/17/20	TC-15.116	1/16/26	TC-65.10	1/17/14	ITS-30.13	1/16/26	49003	832	7/18/25	WATERWAY PERMIT (08/14/23)	
BP-3.1	1/19/24	DM-1.2	1/17/25			AS-1-15	1/20/23	HL-20.24	1/17/25	MT-95.41	7/18/25	MT-99.50	7/18/25	TC-21.11	1/16/26	TC-65.11	1/17/25	ITS-35.11	1/16/26	49005	837	1/16/26		
BP-4.1	7/19/13	DM-2.1	1/18/13	MGS-2.1	1/16/26	AS-2-15	7/21/23	HL-30.11	7/21/23	MT-95.45	7/21/23	MT-99.60	7/19/24	TC-21.21	7/18/25	TC-71.10	1/16/26	ITS-35.12	1/16/26	49031	840	1/16/26		
BP-5.1	1/16/26	DM-4.1	7/17/20	MGS-3.1	1/16/26			HL-30.21	4/17/20	MT-95.50	7/21/17	MT-100.00	1/19/24	TC-21.50	1/16/26	TC-72.20	1/16/26	ITS-35.13	1/16/26	49032	850	7/21/23	OHIO EPA 513 PERMIT (7/7/21)	
BP-6.1	7/19/13	DM-4.3	1/15/16	MGS-3.2	7/18/25	GSD-1-19	7/19/24	HL-30.22	1/17/25	MT-95.70	7/21/23	MT-101.60	1/17/25	TC-22.20	7/18/25	TC-73.20	1/16/26	ITS-36.12	7/18/25	49037	866	4/21/17		
BP-7.1	1/16/26	DM-4.4	1/15/16	MGS-4.2	7/18/25	NBS-1-09	1/17/25	HL-30.31	1/17/25	MT-95.71	7/21/23	MT-101.70	7/19/24	TC-41.10	1/16/26	TC-74.10	1/16/26	ITS-50.10	1/16/26	49040	867	4/15/22		
BP-9.1	1/18/19			MGS-4.3	7/18/25	PCB-91	7/17/20	HL-30.32	4/17/20	MT-95.73	7/19/24	MT-101.75	7/21/23	TC-41.20	10/18/13			ITS-50.12	7/19/24	49048	878	1/16/26	CROSSHOLE SONIC LOGGING (CSL) (6/11/19)	
		I-3B, 3B1	1/17/25	MGS-5.2	7/15/16			HL-30.33	1/21/22	MT-95.82	7/19/13	MT-101.80	1/17/20	TC-41.30	4/21/23	ITS-10.10	1/17/25			49058-A	902	1/16/26		
CB-2-2A,2B,2C	7/19/24	I-3C, 3C1	1/17/25	MGS-5.3	7/15/16			HL-30.41	1/17/25	MT-97.10	7/18/25	MT-101.90	7/17/20	TC-41.40	1/16/26	ITS-10.11	7/18/25				904	7/15/22		
CB-2-3,2-4	7/19/24	I-3D	7/19/24	MGS-6.1	1/19/18	SICD-1-96	7/18/14	HL-40.20	1/17/25	MT-98.10	1/17/20	MT-102.10	7/21/23	TC-41.50	10/18/13	ITS-12.10	1/16/26	CITY OF CINCINNATI STANDARD DRAWINGS		SUPPLEMENTAL SPECIFICATIONS	905	1/17/25		
CB-3	1/16/26					SICD-2-14	1/15/21	HL-50.11	1/16/15	MT-98.11	1/17/20	MT-102.20	4/19/19	TC-42.10	10/18/13	ITS-14.10	1/17/25		909		1/16/26			
CB-3A	1/16/26	MH-1	7/15/22	RM-4.1	1/17/20			HL-50.21	7/15/22	MT-98.20	4/19/19	MT-102.30	10/16/15	TC-42.20	10/18/13	ITS-14.11	1/16/26		ES-6-1		9/2/04	800-2023		1/16/26
CB-4	7/19/24	MH-3	7/19/24	RM-4.2	1/16/26	HL-10.11	7/21/23	HL-60.11	7/21/17	MT-98.21	7/21/23	MT-103.10	7/18/25	TC-51.11	7/18/25	ITS-14.50	7/18/25	ES-6-2	3/29/05	804	1/16/26	921	7/19/24	
CB-4A,5A,8A	7/19/24			RM-4.3	7/18/25	HL-10.12	7/21/23	HL-60.21	7/20/18	MT-98.22	1/17/20	MT-104.10	1/16/26	TC-51.12	7/18/25	ITS-15.11	1/16/26	ES-6-3	9/7/04	807	1/17/25	1136	4/21/23	
CB-5	7/19/24	F-1.1	7/18/25	RM-4.4	1/17/25	HL-10.13	1/20/23	HL-60.31	7/19/24	MT-98.28	1/17/20	MT-105.10	1/17/20	TC-52.10	10/18/13	ITS-18.00	7/16/21	ES-7	4/27/05	809	1/16/26			

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF COMPLETE ASPHALT PAVEMENT RECONSTRUCTION AND WIDENING OF 1.17 MILES OF I.R. 75 WITH AN ADDITIONAL NORTHBOUND AND SOUTHBOUND LANE AND 0.25 MILES OF RECONSTRUCTION AND WIDENING OF S.R. 562 IN HAMILTON COUNTY. ADDITIONAL WORK INCLUDES RECONSTRUCTION OF 6 RAMPS, 4 ROADWAY BRIDGES, 3 RAIL ROAD BRIDGES AND 0.75 MILES OF RAIL ROAD RECONSTRUCTION. THIS WORK INCLUDES NOISE WALLS, RETAINING WALLS, ITS, LIGHTING, WATER WORK, STORM SEWER SYSTEMS AND BMP STRUCTURES. THIS IS PHASE 8 OF THE MILL CREEK EXPRESSWAY PROJECT.

PROJECT EARTH DISTURBED AREA:	58.3 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	1.0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	59.3 ACRES

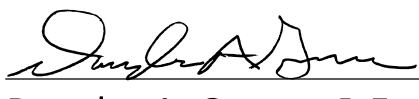
LIMITED ACCESS

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

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS 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 SIDE ROADS EXCEPT AS NOTED ON SHEETS 71 & 72 , AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.


Douglas A. Gruver, P.E.
District 08

Pamela Boratyn
Director, Department of Transportation

FEDERAL PROJECT NO.

E240(935)

PID NO.

121447

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT

NONE

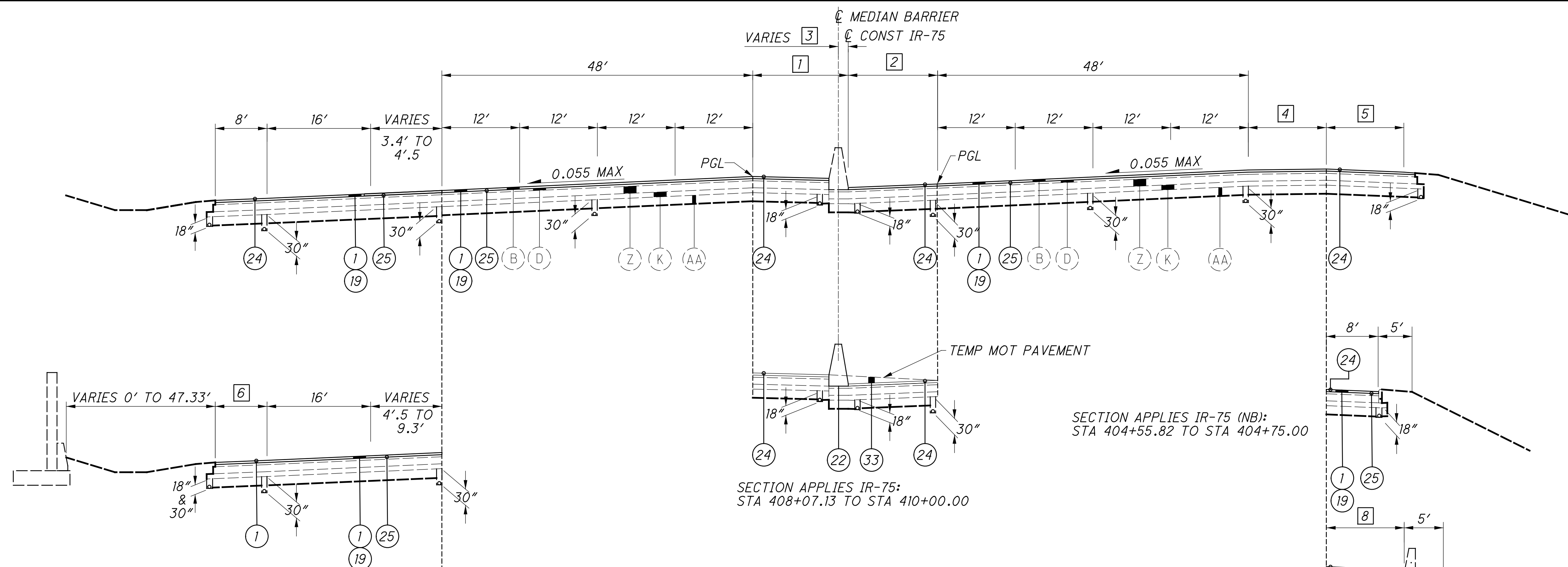
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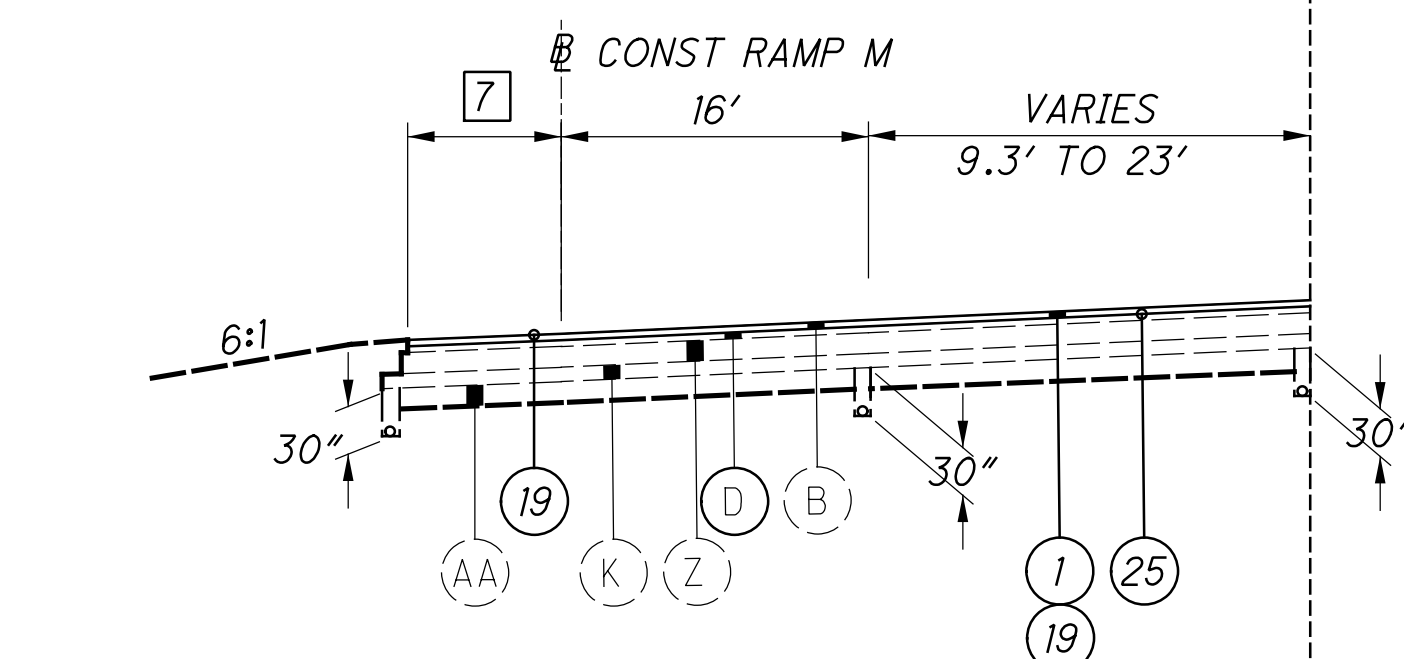
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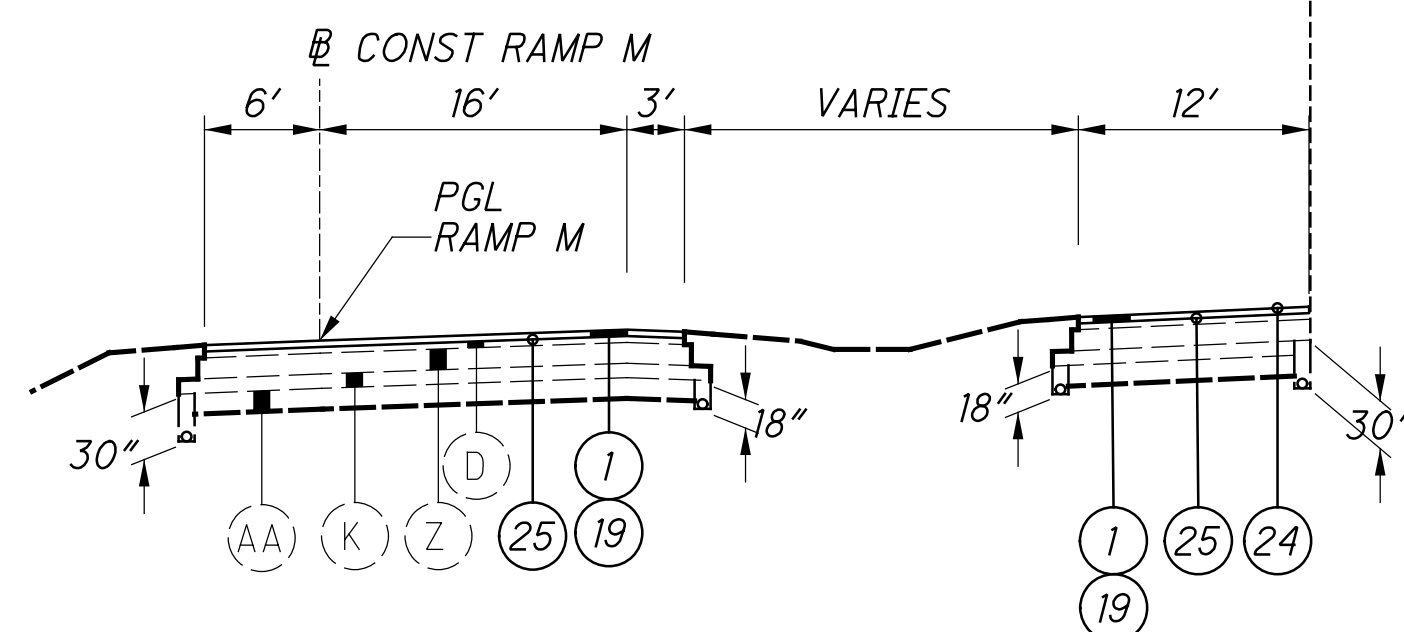
- 8' STA 404+75.00 TO STA 405+99.99
VARIES 8' TO 24'
STA 405+99.99 TO STA 410+00.00



SECTION APPLIES IR-75 (SB):
STA 404+01.04 TO STA 406+66.36



SECTION APPLIES IR-75 (SB):
STA 406+66.36 TO STA 408+87.95



SECTION APPLIES IR-75 (SB):
STA 408+87.95 TO STA 410+00.00

RESURFACING SECTION - I.R. 75

SECTION APPLIES:
STA 395+50.00 TO STA 410+00.00 (NB)
STA 403+40.00 TO STA 410+00.00 (SB)

SECTION APPLIES IR-75 (NB):
STA 404+55.82 TO STA 404+75.00

SECTION APPLIES IR-75 (NB):
STA 404+75.00 TO STA 410+00.00

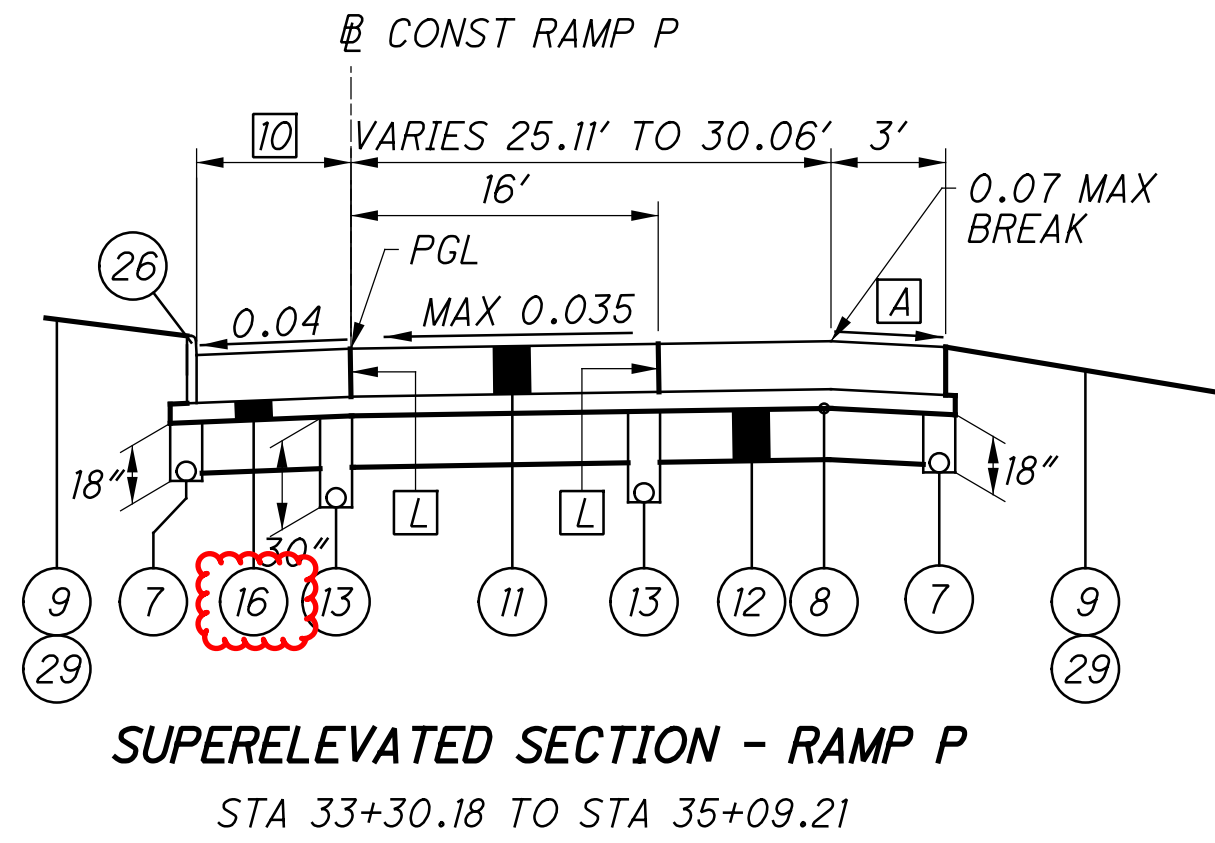
LEGEND

- | | |
|--|--|
| <ul style="list-style-type: none">① ITEM 442 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN② ITEM 407 - NON-TRACKING TACK COAT (@0.055 GAL/SY)③ ITEM 442 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)④ ITEM 302 9" ASPHALT CONCRETE BASE (2-4.5" LIFTS)⑤ ITEM 304 10" AGGREGATE BASE⑥ ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT⑦ ITEM 605 - 6" BASE PIPE UNDERDRAINS⑧ ITEM 204 - PROOF ROLLING⑨ ITEM 659 - SEEDING AND MULCHING⑩ ITEM 606 - GUARDRAIL, TYPE MGS⑪ ITEM 452 - 13" NON-REINFORCED CONCRETE PAVEMENT⑫ ITEM 206 - CEMENT STABILIZED SUBGRADE, 14" DEEP⑬ ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS⑭ ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAINS⑮ ITEM 526 - REINFORCED CONCRETE APPROACH SLAB (T=17')⑯ ITEM 304 - 6" AGGREGATE BASE⑰ ITEM 609 - CURB, TYPE 6⑱ ITEM 608 - 4" CONCRETE WALK | <ul style="list-style-type: none">⑲ ITEM 254 - 1 1/2" PAVEMENT PLANING, ASPHALT CONCRETE⑳ ITEM 411 - 8" STABILIZED CRUSHED AGGREGATE㉑ ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1㉒ ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1㉓ ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D㉔ ITEM 618 - RUMBLE STRIPS (ASPHALT)㉕ ITEM 407 - NON-TRACKING TACK COAT (@0.085 GAL/SY)㉖ ITEM 609 - CURB, TYPE 4-C, AS PER PLAN㉗ ITEM 204 - SUBGRADE COMPACTION㉘ ITEM 302 - 4 3/4" ASPHALT CONCRETE BASE㉙ ITEM 659 - TOPSOIL㉚ ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG 64-22㉛ ITEM 408 - PRIME COAT㉜ ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (448)㉝ ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE DEPTH <p>NOTE:
FOR RUMBLE STRIP DETAILS SEE SHEET 30</p> |
|--|--|

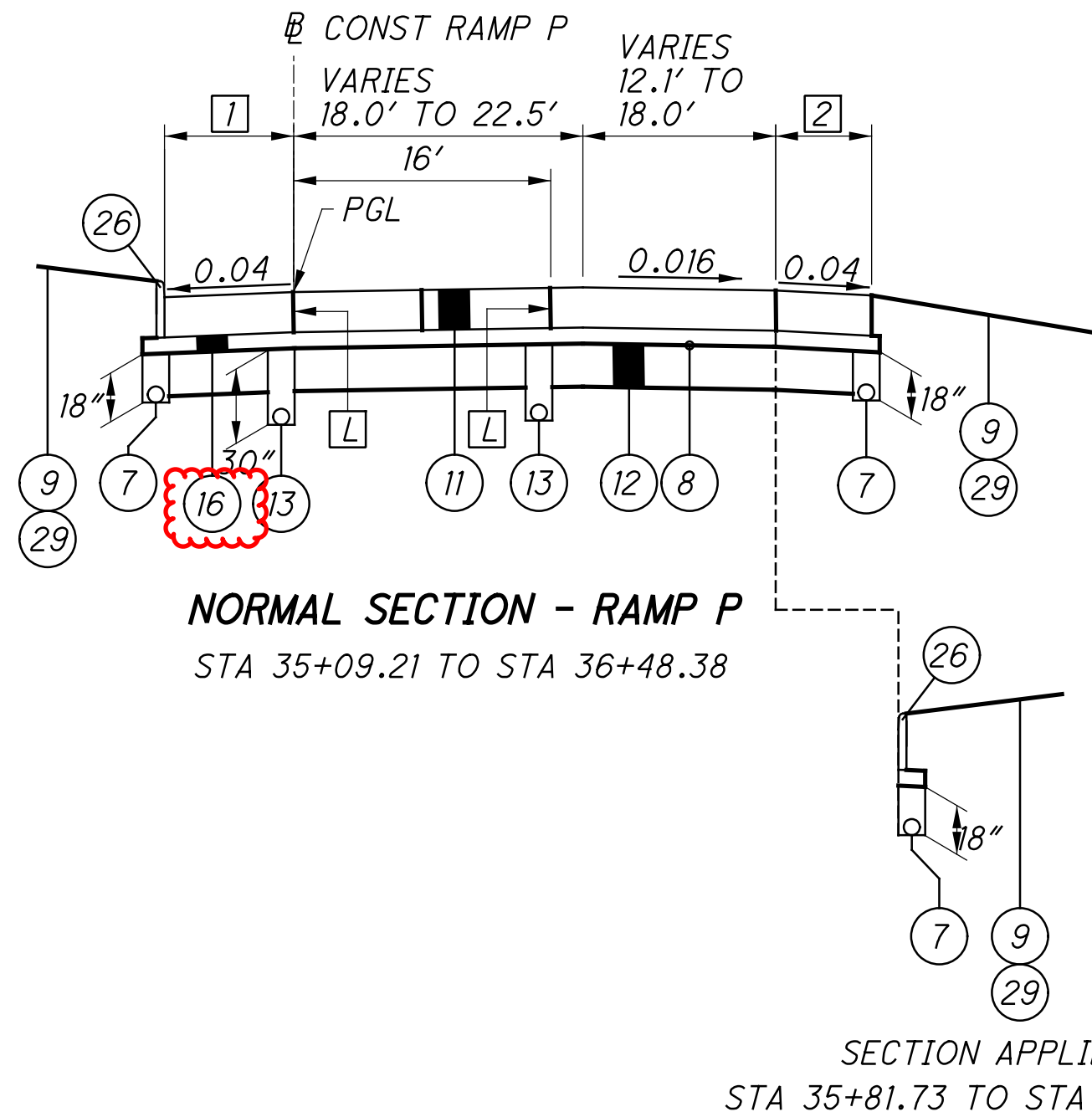
FOR EXISTING LEGEND, SEE SHEET 11

NOTE:
FOR RUMBLE STRIP DETAILS SEE SHEET 30

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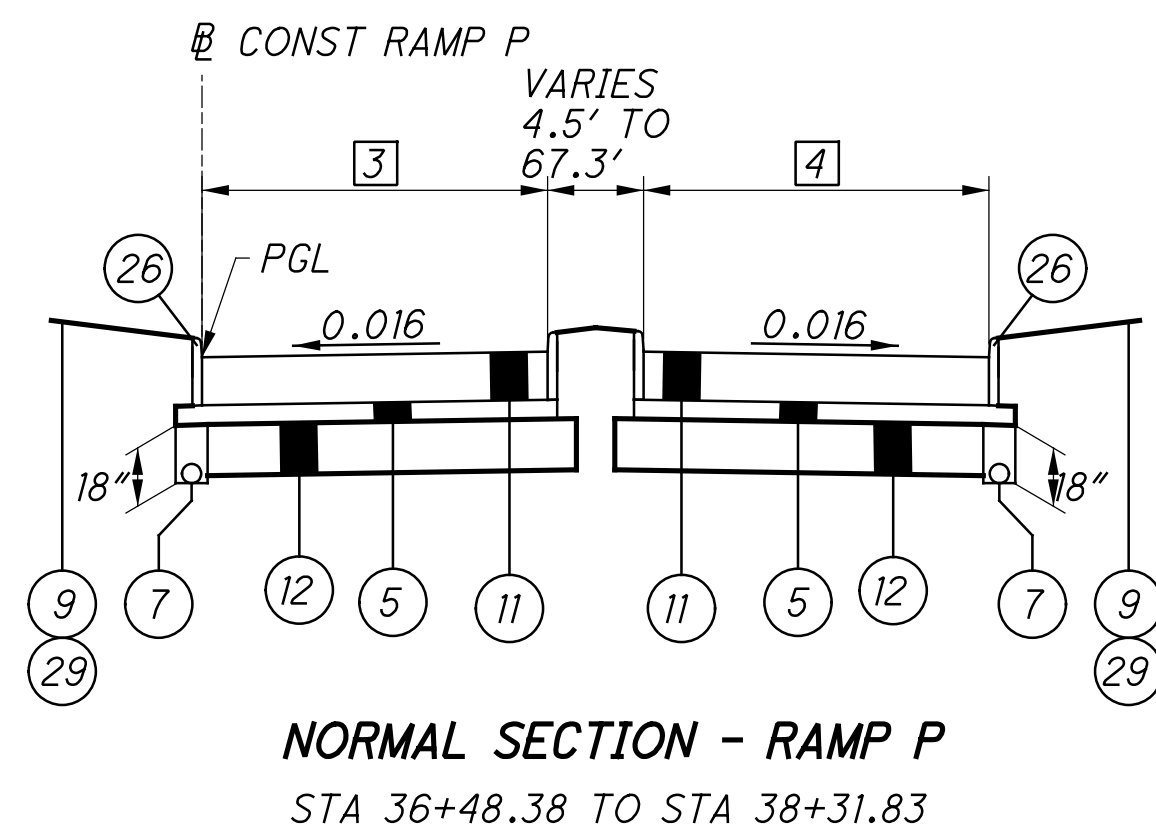


- 10 6'
STA 33+30.18 TO STA 34+50.73
VARIES 6' TO 4'
STA 34+50.73 TO STA 35+09.21



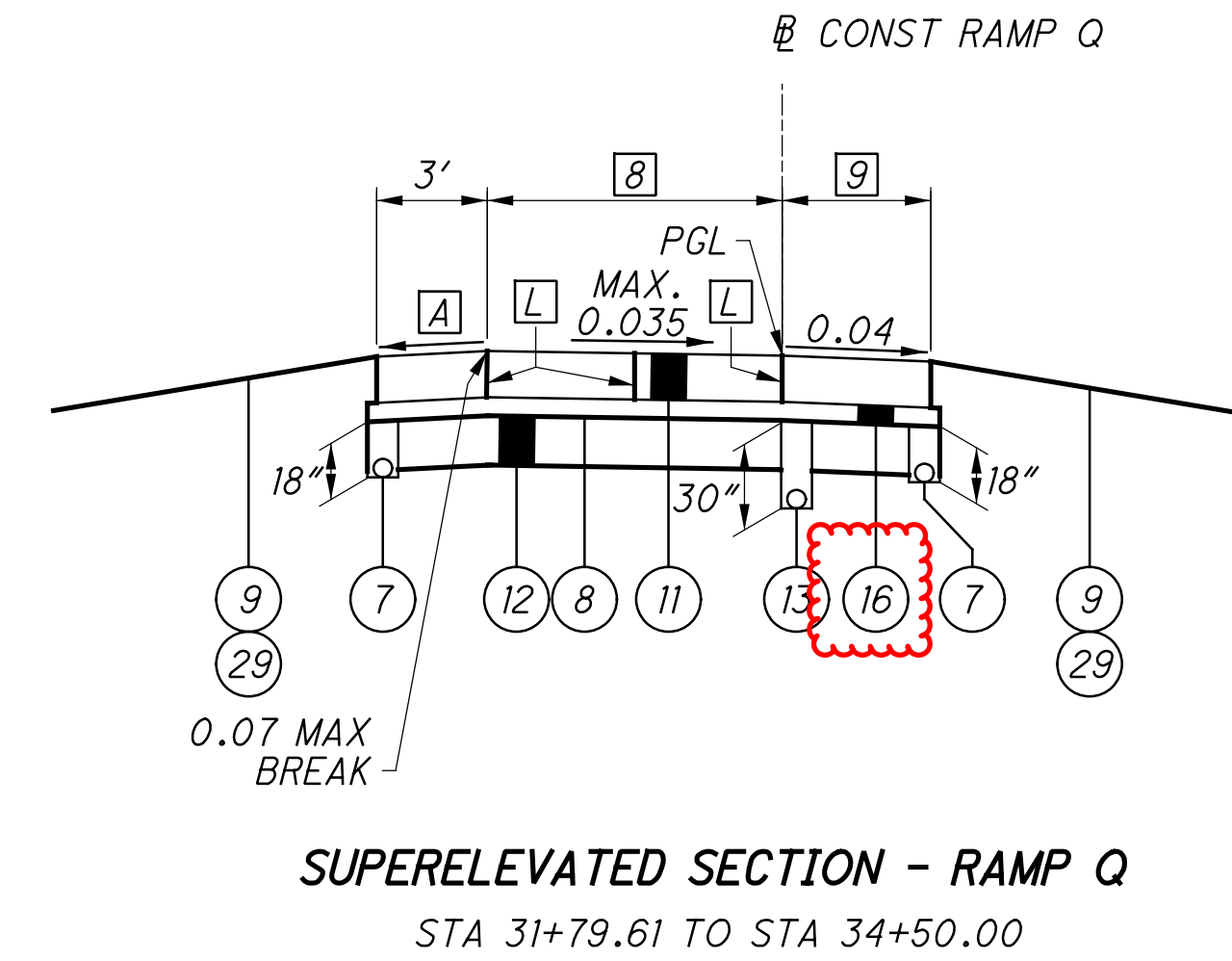
- 1 STA 35+09.21 TO STA 35+97.99
4.0'
STA 35+97.99 TO STA 36+17.99
4.0' TO 0'
STA 36+17.99 TO STA 38+21.83
0'
2 STA 35+09.21 TO STA 35+64.09
3.0'
STA 35+64.09 TO STA 35+81.73
3.0' TO 0'
STA 35+81.73 TO STA 36+48.38
0'

SECTION APPLIES:
STA 35+81.73 TO STA 36+48.38

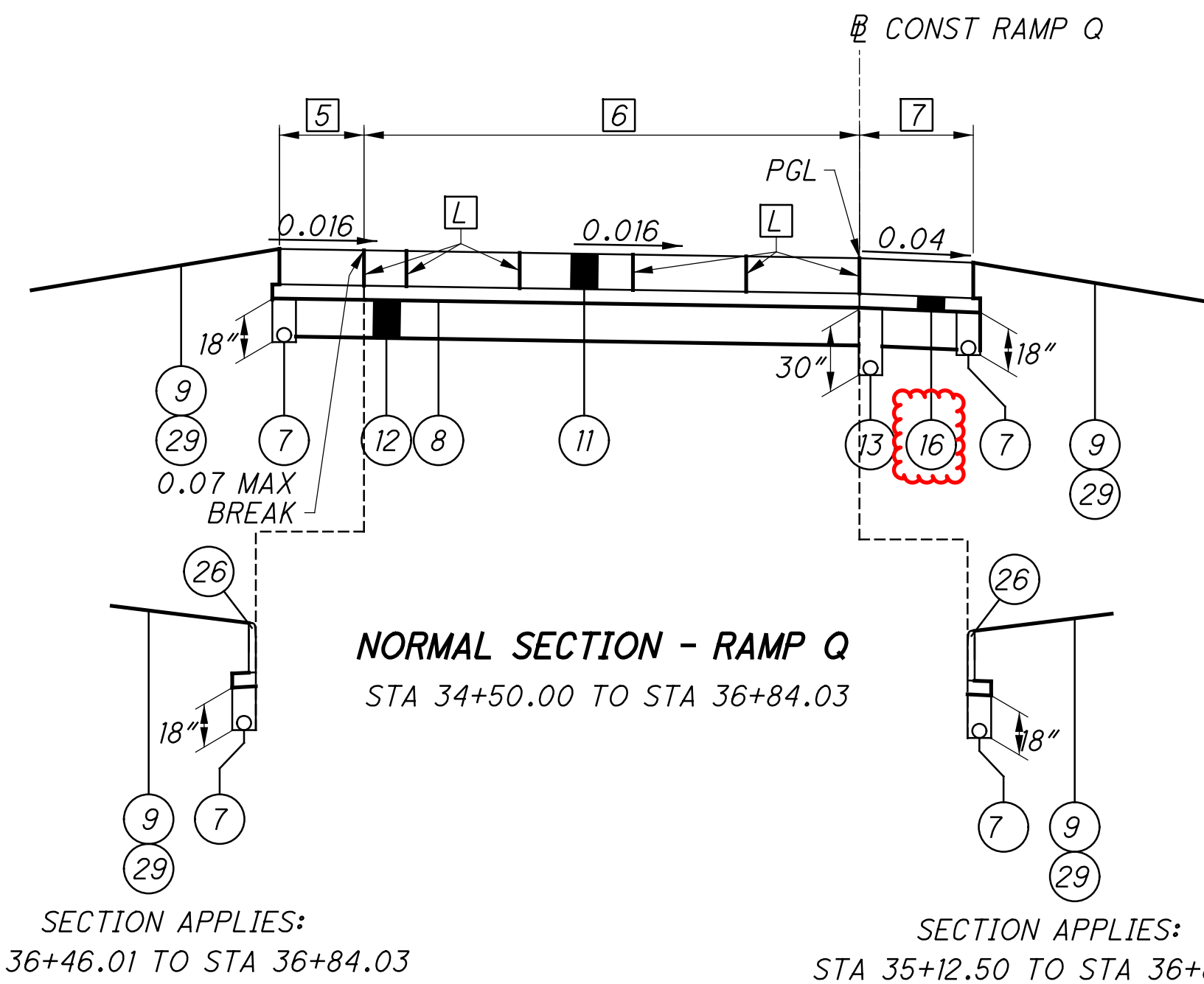


- 3 STA 36+48.38 TO STA 36+97.76
18.5'
STA 36+97.76 TO STA 37+66.41
18.5' TO 25.3'
STA 37+66.41 TO STA 38+32.09
25.3' TO 2.0'
4 STA 36+48.38 TO STA 37+00.10
18.0'
STA 37+00.10 TO STA 37+26.14
18.0' TO 36.9'

NORMAL SECTION - RAMP P
STA 36+48.38 TO STA 38+31.83



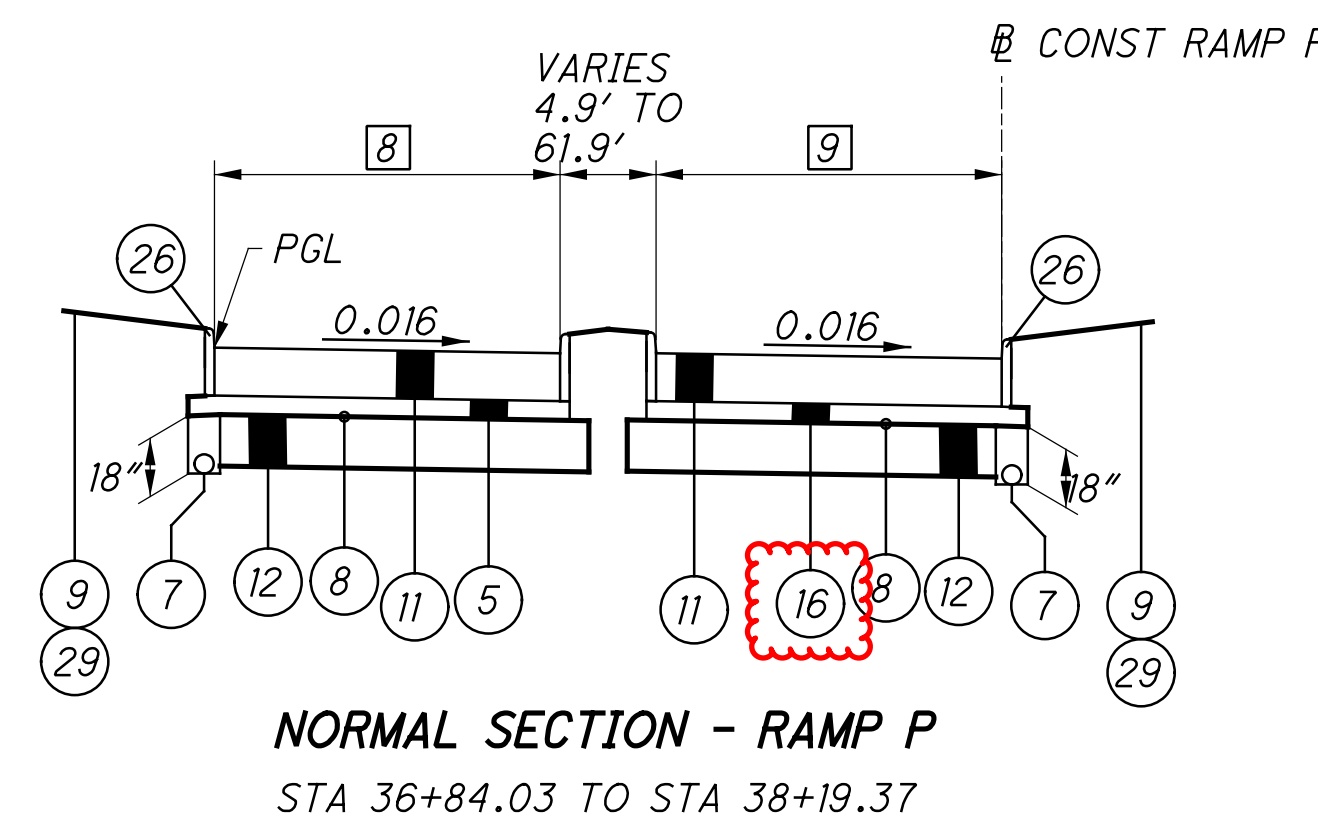
SUPERELEVATED SECTION - RAMP Q
STA 31+79.61 TO STA 34+50.00



SECTION APPLIES:
STA 36+46.01 TO STA 36+84.03

SECTION APPLIES:
STA 35+12.50 TO STA 36+84.03

- 5 STA 34+50.00 TO STA 35+96.17
3.0'
STA 35+96.17 TO STA 36+46.01
3.0' TO 1.0'
STA 36+46.01 TO STA 37+19.27
1.0'
6 STA 34+50.00 TO STA 36+84.03
26.1' TO 49.6'
7 STA 34+50.00 TO STA 35+12.50
6.0'
STA 35+12.50 TO STA 36+37.50
6.0' TO 1.0'
STA 36+37.50 TO STA 38+19.08
1.0'

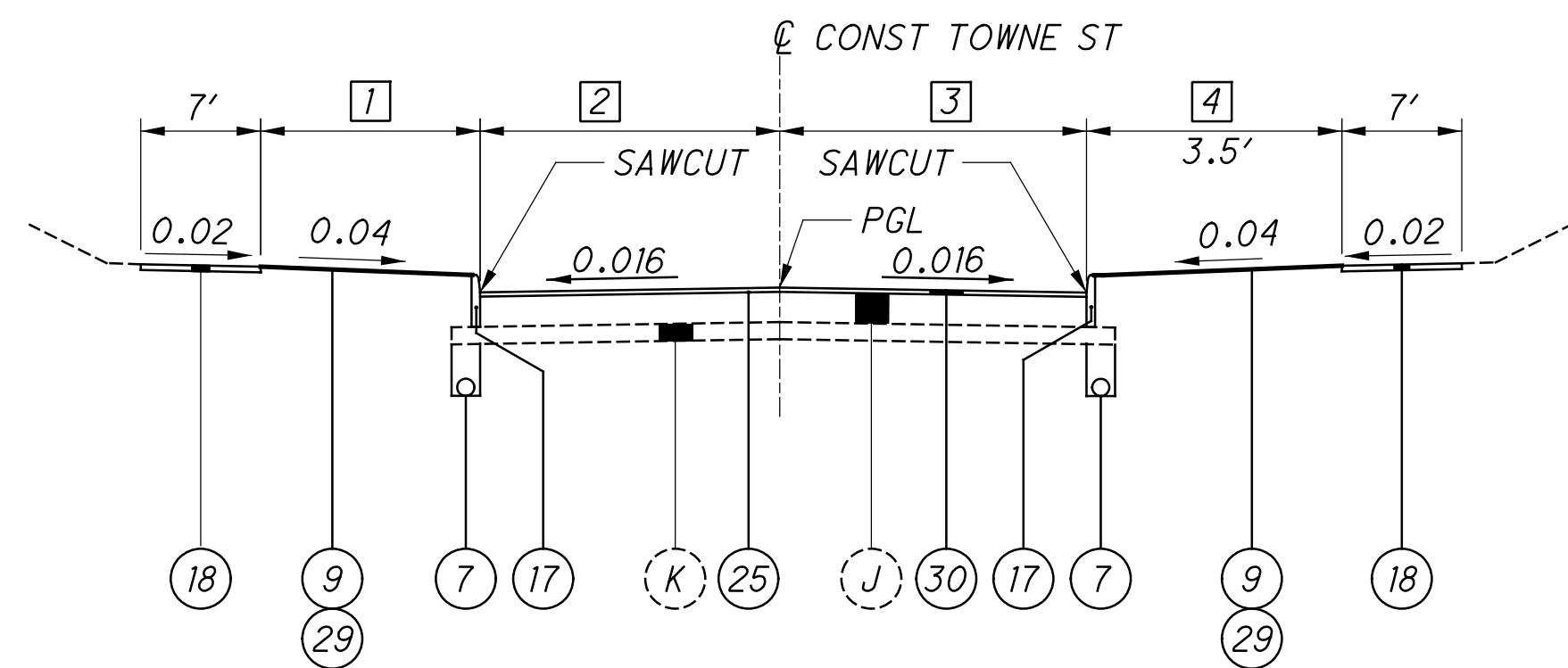


- 8 STA 36+84.03 TO STA 37+20.24
30.1' TO 3.0'
9 STA 36+48.03 TO STA 38+19.37
21.6' TO 3.0'

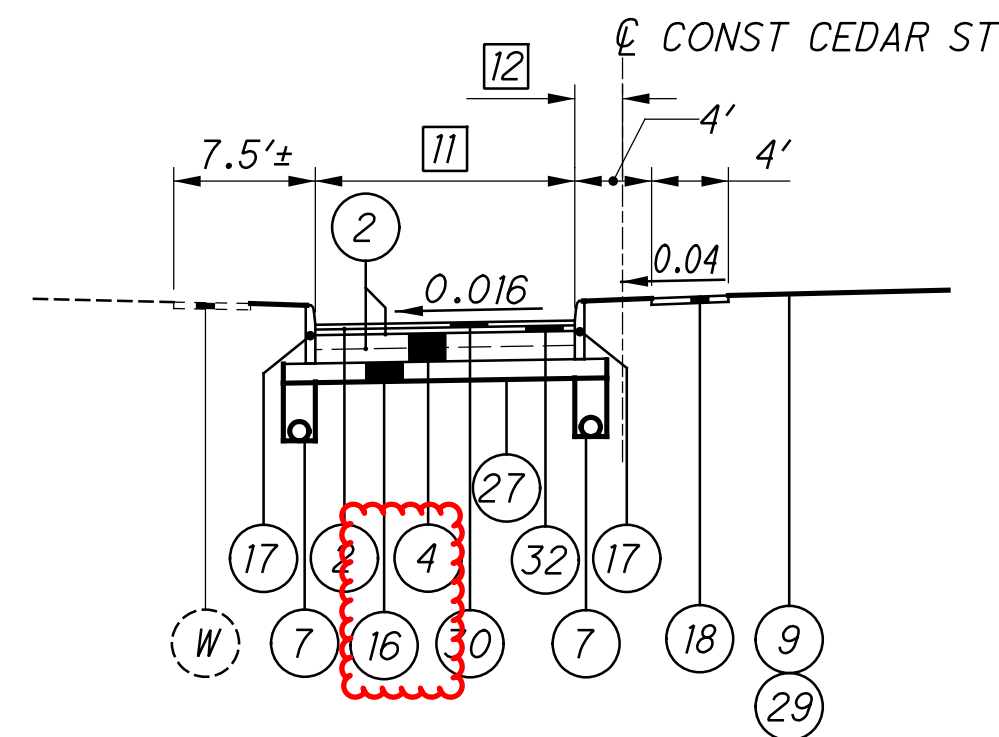
FOR LEGEND, SEE SHEET 14
FOR EXISTING LEGEND, SEE SHEET 11

- A VARIES 0.035 TO 0.04
L LONGITUDINAL JOINT PER SCD-BP-2.1

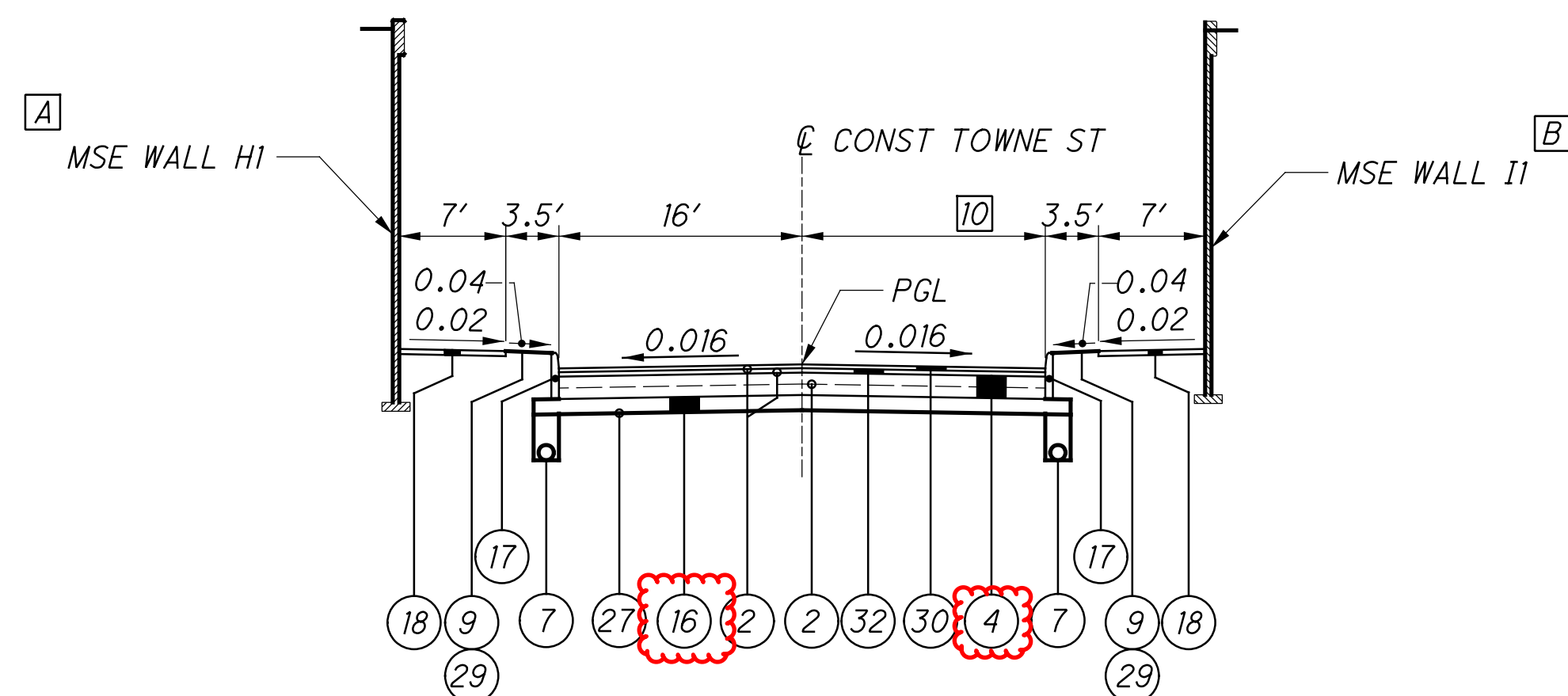
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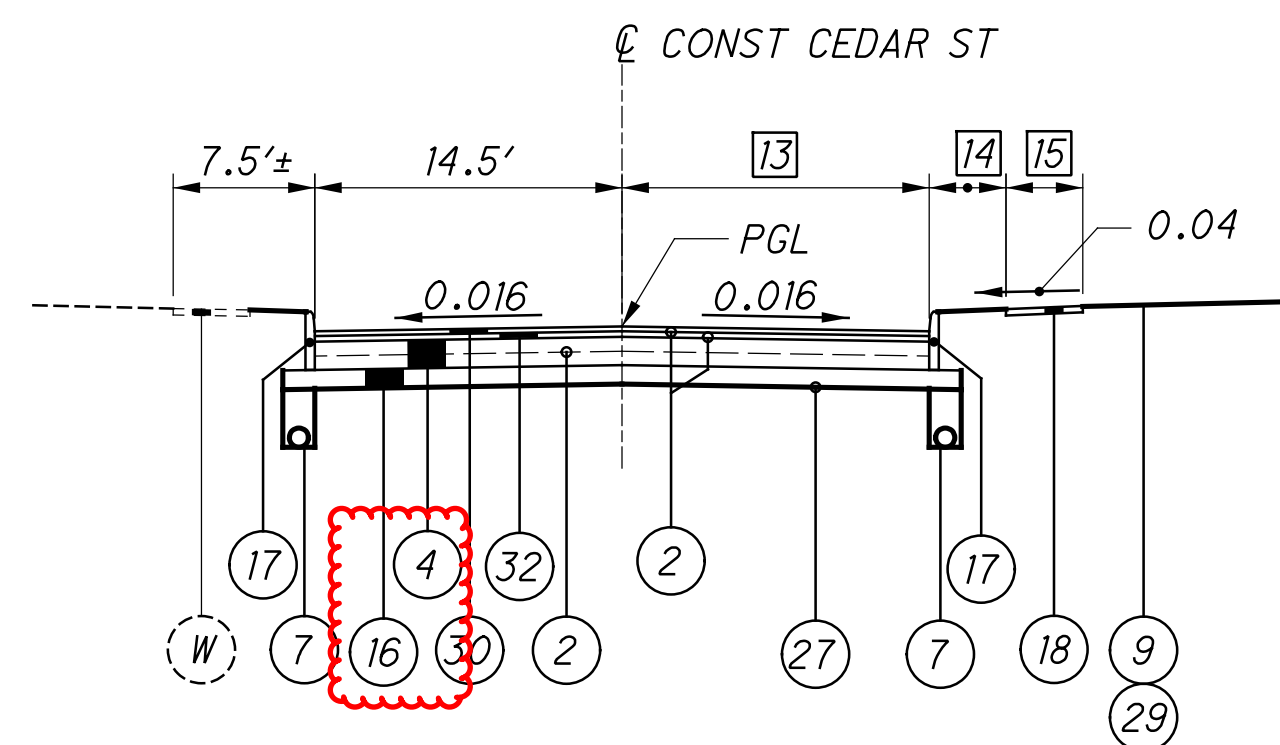
NORMAL SECTION - TOWNE ST
STA 13+34.00 TO STA 15+59.60



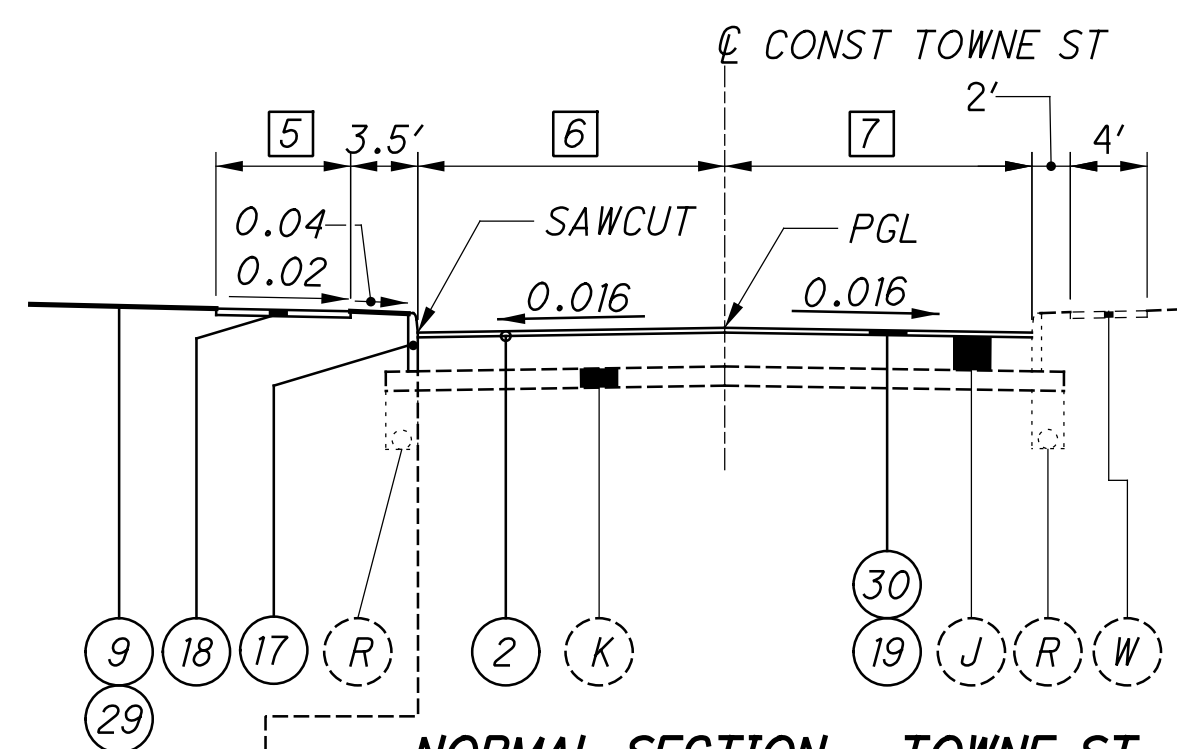
NORMAL SECTION - CEDAR ST
STA 0+26.75 TO STA 0+59.26



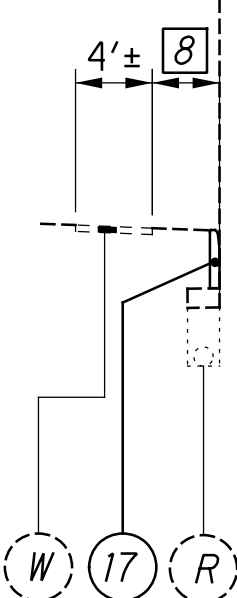
NORMAL SECTION - TOWNE ST
STA 15+59.60 TO STA 20+34.41



NORMAL SECTION - CEDAR ST
STA 0+59.26 TO STA 1+25.67



NORMAL SECTION - TOWNE ST
STA 20+34.41 TO STA 21+16.51



SECTION APPLIES
STA 20+88.51 TO STA 21+16.51

- 1 VARIES 6.85' TO 3.5'
STA 13+34.00 TO STA 13+99.65
3.5'
STA 13+99.65 TO 15+59.60
- 2 VARIES 21.6± TO 16'
- 3 VARIES 23'± TO 16'
- 4 8'
STA. 13+34.00 TO STA. 15+00.00
VARIES 8' TO 3.5'
STA 15+00.00 TO STA 15+59.60
- 5 7'
STA 20+34.41 TO STA 20+38.51
VARIES 7' TO 4'±
STA 20+38.51 TO STA 20+88.51
- 6 16'
STA 20+34.41 TO STA 20+66.51
VARIES 16' TO 16.4'±
STA 20+66.51 TO STA 21+16.51
- 7 VARIES 17.3' TO 18'±
STA 20+34.41 TO STA 21+16.51
- 8 VARIES 3.5'± TO 2.7'±
STA 20+88.51 TO STA 21+16.51
- 9 VARIES 0' TO 12'
STA 4+98.41 TO STA 5+04.04
12' STA 5+04.04 TO 6+33.72
- 10 16'
STA.15+59.60 TO STA. 19+92.12
VARIES 16' TO 17.3'±
STA 19+92.12 TO STA 20+34.41
- 11 VARIES 14.5' TO 12'
STA 0+26.75 TO STA 0+36.40
12'
STA 0+36.40 TO STA 0+49.36
VARIES 12' TO 14.5'
STA 0+49.36 TO STA 0+59.26
- 12 VARIES 0' TO 2.5'
STA 0+26.75 TO STA 0+36.40
2.5'
STA 0+36.40 TO STA 0+49.36
VARIES 2.5' TO 0'
STA 0+49.36 TO STA 0+59.26
- 13 VARIES 0' TO 14'
STA 0+59.26 TO STA 1+14.71
14'
STA 1+14.71 TO STA 1+25.67
- 14 3.5'
STA. 0+59.26 TO STA. 1+14.71
VARIES 3.5' TO 4.2±
STA. 1+14.71 TO STA. 1+25.67
- 15 4'
STA. 0+59.26 TO STA. 1+14.71
VARIES 3.5' TO 4.2±
STA. 1+14.71 TO STA. 1+25.67

- A MSE WALL H1
STA 17+89.70 TO STA 20+24.79
- B MSE WALL I1
STA 17+72.56 TO STA 20+07.83

FOR EXISTING LEGEND, SEE SHEET 11
FOR LEGEND, SEE SHEET 14

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ITEM 204 – PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 – PROOF ROLLING 92 HOUR.

CHEMICALLY STABILIZED SUBGRADE

THE ROADWAY SUBGRADE SHALL BE CEMENT STABILIZED AT THE LOCATIONS DESIGNATED IN THE TYPICAL SECTIONS. ALL CEMENT STABILIZATION SHALL BE 14" DEEP AND SHALL BE CONSTRUCTED PER THE REQUIREMENTS STATED IN CMS SPECIFICATION ITEM 206.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE USE TO COMPLETE THE WORK NOTED ABOVE (FOR ESTIMATING CEMENT, A SPREAD RATE OF 5 PERCENT PER A SOIL DRY UNIT WEIGHT OF 115 POUNDS PER CUBIC FOOT WAS USED):

206, CEMENT	4,902 TONS
206, CEMENT STABILIZED SUBGRADE, 14" DEEP	162,367 SQ YD
206, CURING COAT	162,367 SQ YD
206, MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	LUMP

SEEDING AND MULCHING

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

659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	10,306 CU. YD.
659, SEEDING AND MULCHING	92,843 SQ. YD.
659, REPAIR SEEDING AND MULCHING	4,643 SQ. YD
659, INTER-SEEDING	4,643 SQ. YD.
659, COMMERCIAL FERTILIZER	12.90 TON
659, LIME	19.19 ACRES
659, WATER	527 M. GAL.
659, MOWING	209 M. SQ. FT.

ITEM 606 – IMPACT ATTENUATOR. TYPE 2 (UNIDIRECTIONAL OR BIDIRECTIONAL)

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

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

ITEM 606 – ANCHOR ASSEMBLY. MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE MASH 2016 TYPE E TANGENTIAL END TREATMENTS FOR TYPE MGS GUARDRAIL AS LISTED UNDER “PRODUCTS ACCEPTED FOR NEW INSTALLATIONS” ON THE ROADWAY APPROVED PRODUCTS LIST POSTED ON ROADWAY ENGINEERING’S WEB PAGE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER’S SPECIFICATIONS. REFER TO THE POSTED SHOP DRAWINGS FOR THE MOST CURRENT APPROVED PRODUCT MODELS.

REFER TO THE MANUFACTURER’S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH SOLID FLUORESCENT YELLOW REBOUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.191.

WHEN THE FACE OF THE ADJACENT (ATTACHED) GUARDRAIL IS LESS THAN 4’ OFFSET FROM THE PROPOSED EDGE LINE, AND PERMITTING SITE CONDITIONS EXIST: THE PROPOSED TYPE E ANCHOR ASSEMBLY SHALL BE INSTALLED AT A CONSISTENT FLARE RATE THROUGH THE FULL LENGTH OF THE SYSTEM. THE FLARE RATE SHALL BE A MAXIMUM OF 25:1 (RESULTING IN A 2’ OFFSET). THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE SHOP DRAWINGS, PRODUCT INSTALLATION MANUAL/GUIDANCE, AND AS DIRECTED BY THE ENGINEER.

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

ITEM 611 – 8" CONDUIT. TYPE B WITH CLASS II BEDDING
ITEM 611 – 8" CONDUIT. TYPE C WITH CLASS II BEDDING
ITEM 611 – 42" CONDUIT. TYPE B WITH CLASS II BEDDING
ITEM 611 – 42" CONDUIT. TYPE C WITH CLASS II BEDDING
ITEM 611 – 60" CONDUIT. TYPE B WITH CLASS II BEDDING

BACKFILL SHALL BE IN ACCORDANCE WITH MSD STANDARD CONSTRUCTION DRAWING ACC. NO. 49032.

PIPE MATERIAL SHALL BE IN ACCORDANCE WITH MSDGC APPROVED PIPE MATERIALS LIST UPDATED DECEMBER 30, 2025

https://msdgc.org/sites/default/assets/downloads/doing_business/capital-project_resource_library/Design/MSDGC-approved-pipe-materials.pdf

CONNECTION TO MSD ASSESTS WITHOUT MANHOLES

THE CONTRACTOR SHALL PROVIDE A PLAN SHOWING THE CONNECTION MEETS THE REQUIREMENTS OF OEPA PIPE JOINT REQUIREMENTS. THIS PLAN SHALL BE SIGNED AND SEALED BY A STRUCTURAL ENGINEER AND SUBMITTED FOR APPROVAL BY ODOT, MSDGC AND OEPA PRIOR TO THE WORK BEING PERFORMED.

MSD SANITARY SEWER FILLED. PLUGED AND ABANDONED

PER CITY SUPPLEMENT SECTION 202.041: SEAL ALL SEWERS TO BE ABANDONED ONE FOOT OR LESS IN DIAMETER. SEAL AND FILL ALL SEWERS LARGER THAN ONE FOOT IN DIAMTERE, AS INDICATED IN THE CONTRACT PLANS AND/OR CONTRACT SPECIFICATIONS. FILLING MAY BE DONE HYDRAULICALLY (USING SAND OR GRAVEL) OR BY MUD JACKING (USING SUITABLE CLAY). FILL MATERIAL MUST BE APPROVED BY THE ENGINEER BEFORE IT IS PLACED. PLACE ENOUGH APPROVED FILL MATERIAL TO OCCUPY AT LEAST 90% OF THE SEWER CROSS SECTIONAL AREA WITH SOLIDS.

MSD SANITARY SEWER NOTES

1. ALL PLANS AND CONSTRUCTION WITHIN HAMILTON COUNTY SHALL COMPLY WITH THE LATEST EDITION OF THE “RULES AND REGULATIONS” MANUAL GOVERNING THE DESIGN, CONSTRUCTION, MAINTENANCE, OPERATION , AND USE OF SANITARY AND COMBINED SEWERS IN THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI, HAMILTON COUNTY, OHIO, EFFECTIVE MARCH 1, 2001. COPIES MAY BE OBTAINED FROM THE DIVISION OF WASTEWATER ENGINEERING MSD, 1600 GEST STREET, CINCINNATI, OHIO 45204.

2. ALL SANITARY SEWERS SHALL BE CONSTRUCTED UNDER THE INSPECTION OF THE CHIEF ENGINEER, MSD.

3. THE OWNERS OF ALL PROPERTIES SHOWN ON THIS IMPROVEMENT PLAN SHALL BE SUBJECT TO ALL APPLICABLE SEWER SERVICE CHARGES, ASSESSMENTS, TAP-IN CHARGES OR FEES WHICH HAVE BEEN OR MAY BE ESTABLISHED BY THE BOARD OF COUNTY COMMISSIONERS.

4. APPROPRIATE UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO BREAKING GROUND FOR THE PURPOSE OF VERIFYING BY FIELD INSPECTION THE EXACT LOCATION OF UNDERGROUND UTILITIES.

5. ALL SANITARY SEWER PIPE SHALL BE PVC, SDR35, ASTM D-3034 IN ACCORDANCE WITH MSD RULES AND REGULATIONS, EXCEPT WHERE NOTED.

6. ALL MANHOLES ON SANITARY SEWERS SHALL BE TYPE “T” MSD ACCESSION NO. 49040.

7. SANITARY MANHOLES SHALL BE TEMPORARILY CONSTRUCTED TO AN ELEVATION OF TWO FEET ABOVE THE SURROUNDING GRADE BY MEANS OF AN ADDITIONAL MANHOLE SECTION OR BRICK MASONRY ON TOP OF THE CONE.

8. SANITARY BUILDING SEWERS FOR PUBLIC AND PRIVATE SEWERS SHALL NOT BE EXTENDED MORE THAN TEN (10) FEET BEYOND THE PROPOSED RIGHT-OF-WAY LINE, EASEMENT LINE OR, IN CASES OF PRIVATE SEWERS, NO MORE THAN TEN (10) FEET BEYOND THE MAIN LINE SEWER PRIOR TO ISSUANCE OF TAP PERMITS.

9. TWO-WAY CLEANOUTS SHALL BE INSTALLED AT THE RIGHT-OF-WAY LINE OR SANITARY SEWER EASEMENT, WHERE APPLICABLE, IN ACCORDANCE TO MSD ACCESSION NO. 49060.

10. ALL LOWEST FINISHED FLOOR ELEVATIONS SHALL BE AT LEAST 36 INCHES ABOVE THE CROWN OF THE SEWER AT THE POINT OF TAP CONNECTION TO SAID SEWER, WHETHER PUBLIC OR PRIVATE, AND/OR IN ACCORDANCE WITH CITY OF CINCINNATI SUPPLEMENT CC-51-49. ANY BUILDING TO BE SERVED BY MEANS OTHER THAN GRAVITY MUST BE SO NOTED ON THE PLANS.

MSD SANITARY SEWER NOTES CON'T

11. ALL MANHOLES ON PUBLIC SANITARY SEWERS SHALL HAVE STANDARD LIDS AND FRAMES, MSD ACCESSION. NO 49005, EXCEPT WHERE NOTED. THE FRAME SHALL BE SECURELY FASTENED TO THE TOP MANHOLE SECTION BY FOUR 3/4-INCH STAINLESS STEEL CINCH ANCHORS.

12. CONTRACTOR’S LICENSE – ALL WORK DONE ON SANITARY AND/OR COMBINED SEWERS WITHIN THE JURISDICTION OF THE METROPOLITAN SEWER DISTRICT MUST BE DONE BY A CONTRACTOR WHO IS AN APPROVED SEWER TAPPER PROPERLY LICENSED BY THE DEPARTMENT AND BONDED.

13. SANITARY BUILDING SEWERS SHALL BE CONNECTED TO THE MAIN LINE WITH WYES. TEE FITTINGS ARE TO BE USED ONLY WHERE SHOWN ON THE APPROVED PLAN.

14. A TAP PERMIT IS REQUIRED FOR EACH BUILDING. BOND OR FINAL APPROVAL OF THE MAIN LINE IS REQUIRED PRIOR TO ISSUANCE OF A TAP PERMIT.

15. SANITARY SEWER CONSTRUCTION MUST COMMENCE WITHIN 12 MONTHS AND BE COMPLETED WITHIN 36 MONTHS OF THE DATE OF APPROVAL SHOWN HEREON OR THESE PLANS BECOME VOID.

16. FOR SANITARY SEWER MANHOLES CONSTRUCTED IN PARKING LOTS, THE RIM ELEVATION SHALL BE 1" HIGHER THAN THE SURROUNDING GRADE AND THE PAVEMENT SHALL BE FEATHERED AWAY FROM THE MANHOLE RIM AT A GRADUAL SLOPE.

17. FOR SANITARY MANHOLES CONSTRUCTED IN GRASS AREAS, THE RIM ELEVATION SHALL BE 3" HIGHER THAN THE SURROUNDING GRADE, AND THE FILL SHALL BE FEATHERED AWAY FROM THE MANHOLE RIM AT A GRADUAL SLOPE.

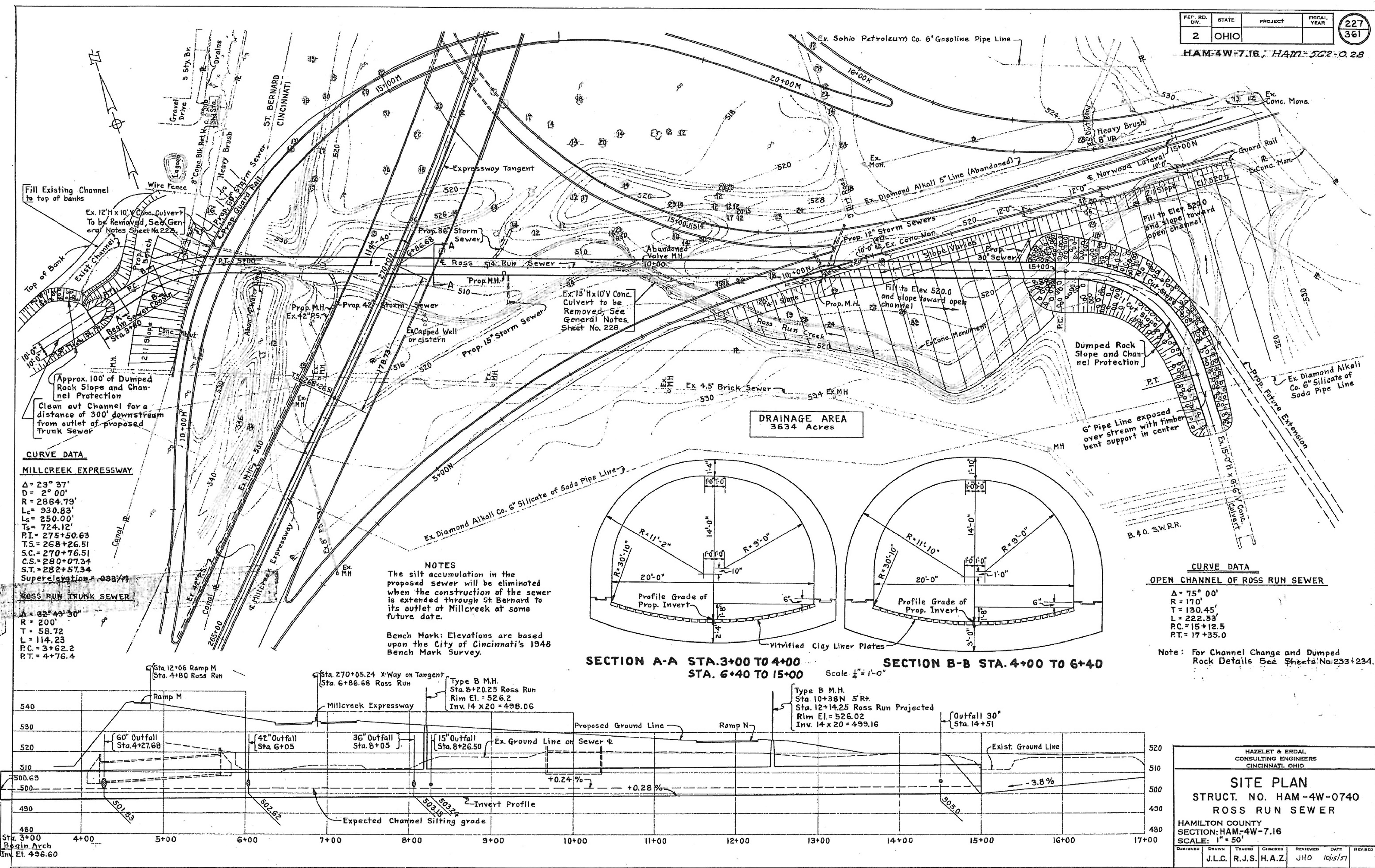
18. ROOF DRAINS, FOUNDATION DRAINS, COOLING WATER, SWIMMING POOL WATER OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

19. TO ASSURE THAT STORMWATER DOES NOT ENTER THE SANITARY SEWER SYSTEM, A SCHEMATIC PLAN OF THE FOOTING AND FOUNDATION DRAINAGE SYSTEM, INCLUDING THE POINT OF DISCHARGE, IS NECESSARY.

20. THE CONTRACTOR SHALL TEST ALL MANHOLES LEAKAGE BY MEANS OF VACUUM TESTING. THE VACUUM TESTING CANNOT BE DONE UNTIL AFTER THE MANHOLES ARE SET TO FINAL GRADE AND THE MANHOLE CASTINGS ARE BOLTED DOWN. ALL LIFT HOLES SHALL BE PLUGGED. ANY OTHER OPENINGS, SUCH AS FOR PRESSURE RELIEF VALVES, SHALL BE TEMPORARILY PLUGGED TO ALLOW THE VACUUM TEST. ALL PIPES ENTERING THE MANHOLE SHALL BE PLUGGED AND CARE SHALL BE TAKEN TO SECURELY BRACE THE PLUGS FROM BEING DRAWN INTO THE MANHOLE. THE VACUUM EQUIPMENT TEST HEAD SHALL BE PLACED IN THE OPENING OF THE CASTING ONLY, AND THE SEAL INFLATED IN ACCORDANCE WITH THE MANUFACTURER’S RECOMMENDATIONS. VACUUM TESTING SHALL BE IN ACCORDANCE WITH ASTM C1244. A VACUUM OF 10 INCHES MERCURY (10" HG) SHALL BE DRAWN AND THE VACUUM PUMP SHUT OFF. WITH THE VALVES CLOSED, THE TIME SHALL BE MEASURED FOR THE VACUUM TO DROP TO NINE INCHES MERCURY (9" HG). THE MANHOLE SHALL PASS IF THE TIME MEETS OR EXCEEDS THE ALLOWABLE TIMES AS CALCULATED FROM ASTM C1244, OR AS APPROVED BY THE ENGINEER. ALL MANHOLE REPAIR AND RETESTING REQUIRED BECAUSE OF THE FAILURE TO MEET THE TESTING REQUIREMENTS SHALL BE BORNE BY THE CONTRACTOR AT HIS COST.

21. THE CONTRACTOR SHALL PERFORM DEFLECTION TESTING FOR ALL NON-RIGID PIPE PER GLURB 33.85.

ROSS RUN SEWER PLANS PROVIDED TO FACILITATE PROPOSED DRAINAGE CONNECTION



FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

227

361

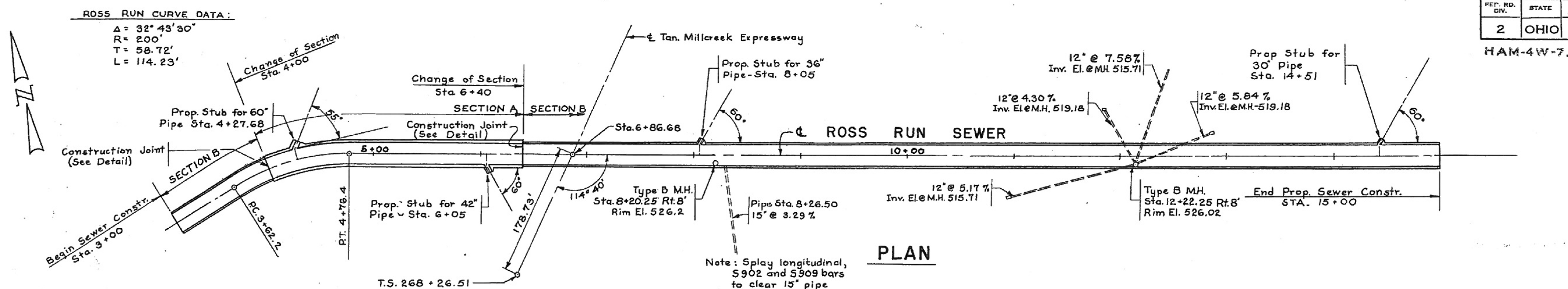
HAM-4W-7.16, HAM-5G2-0.28

GENERAL NOTES

HAM-75-7.85

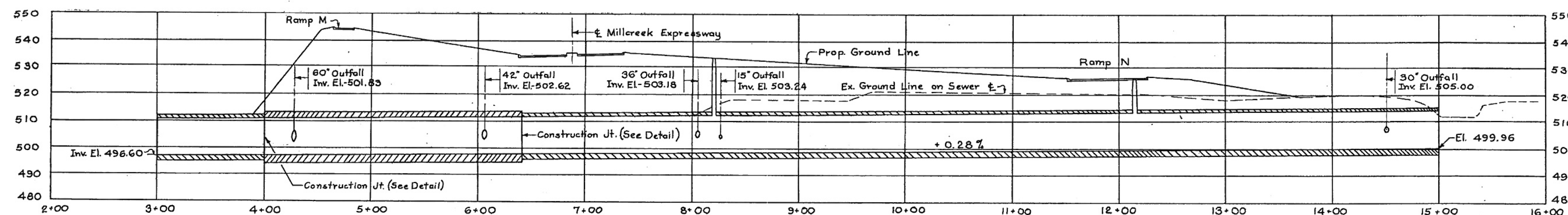
ROSS RUN SEWER PLANS PROVIDED TO FACILITATE PROPOSED DRAINAGE CONNECTION

CALCULATED
RJE
CHECKED
RSH



FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

HAM-4W-7.16 ; HAM-062-028



GENERAL NOTES

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 10-1-51, together with revisions thereof dated 7-15-52, 4-1-54, and 2-1-55.

REMOVAL OF EXISTING STRUCTURE: The existing 12'x10' and 13'x10' concrete culverts shall be removed in accordance with the provisions of Item S-24.

CONCRETE: Shall be Class "C"

SURFACE FINISH OF CONCRETE: The inside of the sewer shall be finished in accordance with the provisions of Item S-1.

BACKFILL: Shall be placed symmetrically on both sides of the structure and preferably simultaneously along the entire length, in addition to observing the provisions of Item E-2.

VITRIFIED CLAY LINER PLATES: Vitrified clay liner plates shall conform to Supplemental Specification Number 30 dated May 28, 1948.

Liner plates shall be flat, and shall have a wearing surface not less than $\frac{3}{4}$ inch thick. The back of the plates shall be provided with approximately five longitudinal dovetail shaped ribs to act as keys in the mortar. The plates shall be uniform in size, approximately 9 inches wide and 18 to 20 inches long. However, the widths shall be such that the surface is divided into an exact number of whole plates, due allowance being made for the joints. Shorter lengths shall be provided for breaking joints.

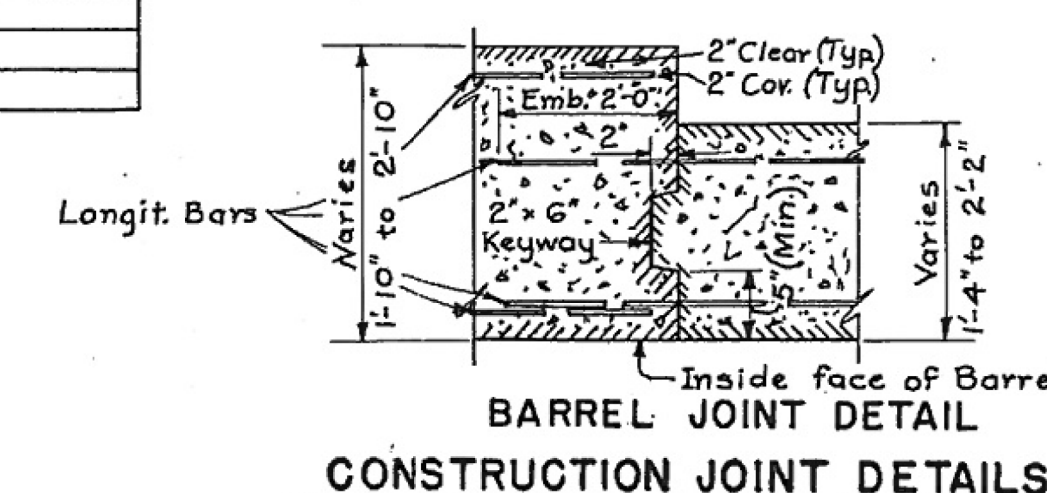
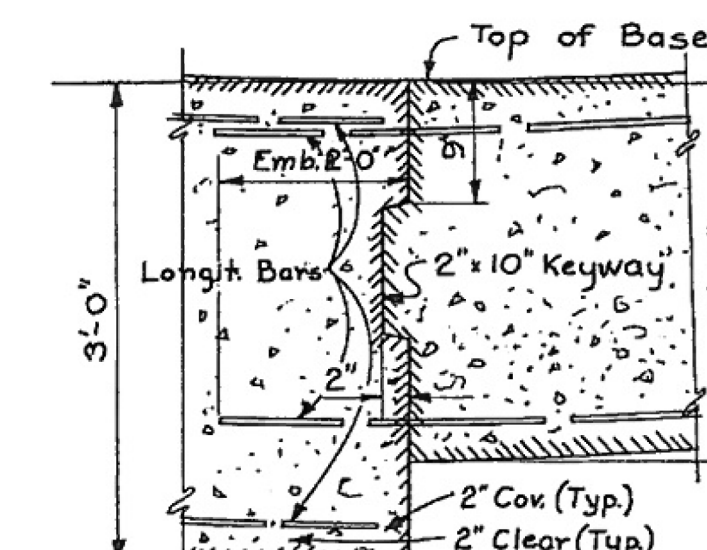
The joints in the liner plates shall be filled with an acid and caustic resistant joint material such as Furan resin cement similar and equal to "Permanite", "Alkar SE", or "Muken All-Purposes" placed in accordance with the manufacturer's specifications. All excess filler shall be removed from the surface of the liner plates.

MANHOLE STEPS: Shall be identical to those furnished in Type B Manhole.

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION
E-2	24,920	Cu.Yds.	Unclassified Excavation
S-1	5762	Cu.Yds.	Class "C" Concrete
S-4	321,968	Lbs.	Reinforcing Steel
S-24	Lump Sum	Lump Sum	Removal of Existing Structures
SS-30	24,442	Sq.Ft.	Vitrified Clay Liner Plates
I-8	2	Each	Manholes, Type B Complete, Including Manhole Steps.
I-10	3000	Cu.Yds.	Dumped Rock Channel Protection
E-2	Lump Sum	Lump Sum	Cofferdams, Cribbs and Sheet piling
E-3	8813	Cu.Yds.	Channel Excavation

COFFERDAMS, CRIBS AND SHEETING: Adequate facilities for handling the flow of Ross Run Creek shall be provided and shall be considered as included in the Lump Sum price bid for Item E-2, Cofferdams, Cribbs and Sheet piling



HAZELET & ERDAL
CONSULTING ENGINEERS
CINCINNATI, OHIO

GENERAL PLAN
 STRUCT. NO. HAM-4W-0740
 ROSS RUN SEWER

HAMILTON COUNTY
 SECTION: HAM-4W-7.16

SCALE:
 DESIGNED: E.R.B. DRAWN: H.L.L. CHECKED: N.H. REVIEWED: H.A.Z. DATE: JHO 10/15/57

GENERAL NOTES

HAM-75-7.85

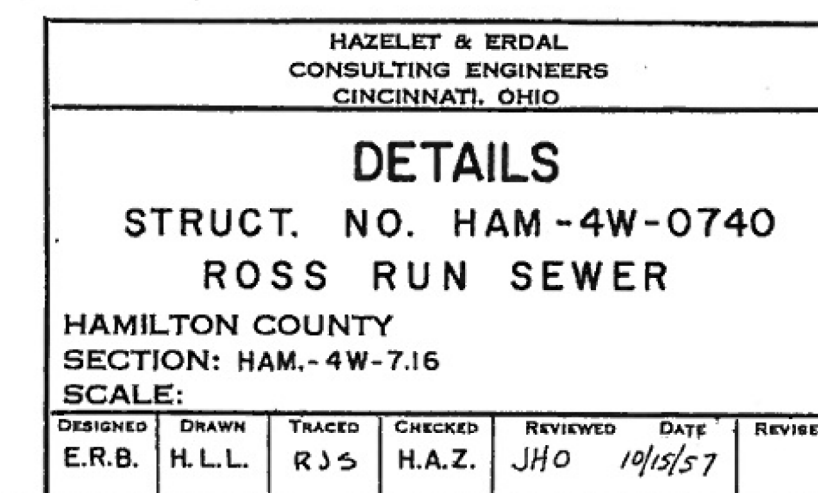
FOR INFORMATION ONLY

SS#7168

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HAM-4W-7.16 ; HAM-5G2-0.28



SHEET NUMBER											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED DLR CHECKED EDK <
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REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

NBS-1-09 REVISED 07-15-22

ITEM 513 - STRUCTURAL STEEL, MISC.: C10x15.3
ITEM 513 - STRUCTURAL STEEL, MISC.: L4x4x1/2

STRUCTURAL STEEL IS ASTM A709, GRADE 50 AS PER CMS 711.01.

GALVANIZE ALL STRUCTURAL STEEL PER CMS 711.02.

PAYMENT FOR THIS WORK INCLUDES ALL MATERIAL, LABOR AND EQUIPMENT REQUIRED TO FABRICATE, GALVANIZE, TRANSPORT AND ERECT THESE STRUCTURAL STEEL SHAPES. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT UNIT PRICE BID PER FOOT FOR ITEM 513 - STRUCTURAL STEEL MISC.: C10x15.3, AND ITEM 513 - STRUCTURAL STEEL, MISC.: L4x4x1/2.

ITEM 513 - STRUCTURAL STEEL, MISC.: 5/8" DIA. A325 BOLTS

THIS ITEM IS USED TO MOUNT THE C10x15.3 TO THE EXISTING W8x28 SUPPORT POST THAT IS PART OF NOISE WALL 1B-2. THE BOLTS ARE ASTM A325. NUTS SHALL BE ASTM A563, GRADE DH AND WASHERS SHALL BE ASTM F436.

GALVANIZE THE BOLTS, NUTS AND WASHERS PER CMS 711.02. ENSURE THAT THE ENTIRE LENGTH OF BOLTS AND ALL SURFACES OF NUTS AND WASHERS ARE GALVANIZED.

PAYMENT FOR THIS ITEM INCLUDES ALL MATERIAL, LABOR AND EQUIPMENT REQUIRED TO GALVANIZE, TRANSPORT AND INSTALL THE BOLTS, NUTS AND WASHERS. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT UNIT PRICE BID PER EACH FOR ITEM 513 - STRUCTURAL STEEL, MISC.: 5/8" DIA. A325 BOLTS.

ITEM 513 - STRUCTURAL STEEL, MISC.: 5/8" DIA. THREADED ANCHOR RODS

THIS ITEM IS USED TO MOUNT THE C10x15.3 TO THE EXISTING GROUND MOUNTED CONCRETE POST THAT IS PART OF NOISE WALL 1B-1 & 2B AS WELL AS MOUNT THE L4x4x1/2 ANGLES TO THE COMBINATION NOISE AND TRAFFIC BARRIER AND MSE WALL COPING. THE 5/8" DIA. THREADED RODS FOR ADHESIVE ANCHORS SHALL BE ASTM A193 GRADE 87 WITH ASTM A563 NUTS AND ASTM F436 WASHERS.

GALVANIZE THE THREADED RODS, NUTS AND WASHERS PER CMS 711.02. ENSURE THAT THE ENTIRE LENGTH OF THE THREADED RODS AND ALL SURFACES OF NUTS AND WASHERS ARE GALVANIZED.

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 APPROVED PRODUCTS:
POWERS PE1000+ EPOXY ADHESIVE ANCHOR SYSTEM (ICCES REPORT ESR-2583)
CHEMOFASTC-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 ENBEDMENT DEPTH (H) FOR ANCHORS SHALL BE 5".

PAYMENT FOR THIS ITEM INCLUDES ALL MATERIAL, LABOR AND EQUIPMENT REQUIRED TO GALVANIZE, TRANSPORT AND INSTALL THE THREADED RODS, NUTS AND WASHERS. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT UNIT PRICE BID PER EACH FOR ITEM 513 - STRUCTURAL STEEL, MISC.: 5/8" DIA. THREADED ANCHOR RODS.

ITEM SPECIAL - NOISE BARRIER (METAL PANELS)

METAL PANELS SHALL BE PROVIDED BY THE FOLLOWING VENDOR

EMPIRE ACOUSTICAL SYSTEMS
1111 ACE RD
PRINCETON, IL 61356
PHONE: 1-815-261-0072

PANELS ARE FABRICATED FROM 22 GAUGE COLD-FORMED SHEET STEEL AND GALVANIZED ACCORDING TO ASTM A-653, CLASS G-90. PANELS MAY HAVE A SMOOTH SURFACE WITH MINIMAL OR NO RELIEF PATTERN.

PAYMENT FOR THIS ITEM INCLUDES ALL MATERIAL, LABOR AND EQUIPMENT REQUIRED TO FABRICATE, GALVANIZE, TRANSPORT AND ERECT THE PANELS. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT UNIT PRICE BID PER SQUARE FOOT FOR ITEM SPECIAL - NOISE BARRIER (METAL PANELS).

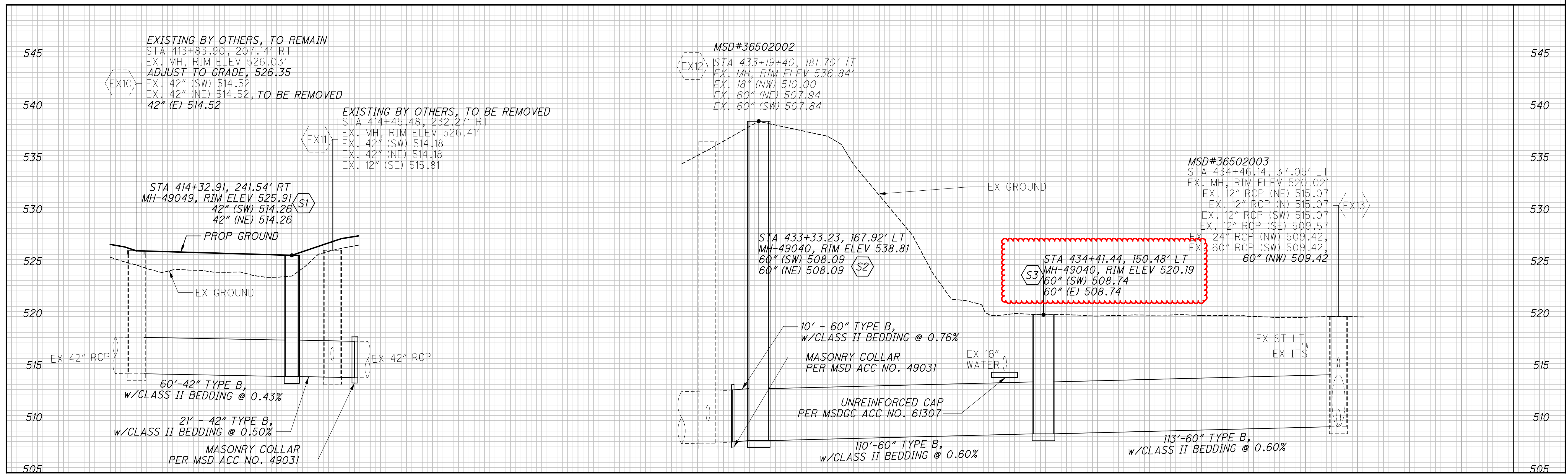
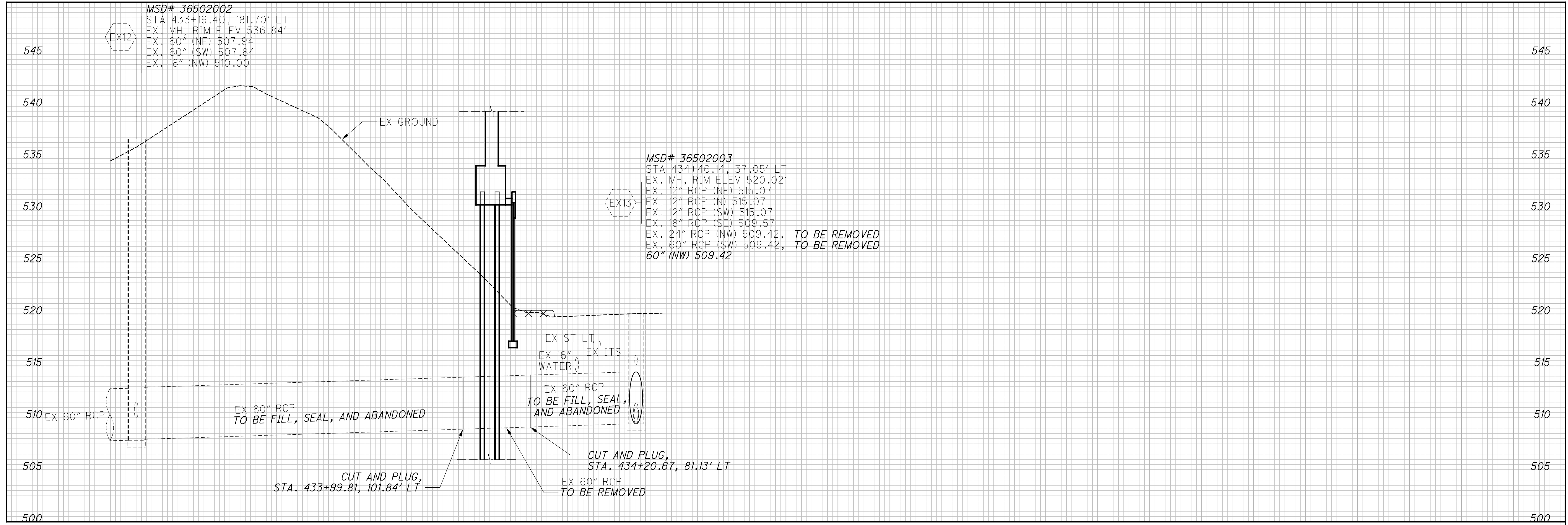
EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING NOISE WALLS HAVE BEEN OBTAINED FROM PLANS OF THE NOISE WALLS AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING NOISE WALLS AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

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

ESTIMATED QUANTITIES												AS PER PLAN REFERENCE SHEET
1A	1B-1	1B-2	1C	2A	2B	ITEM	ITEM EXT.	PARTICIPATION 02/1MS/03	TOTAL	UNIT	DESCRIPTION	
		30		6		513	95000	36	36	FT	STRUCTURAL STEEL, MISC.: C10X15.3	
		5				513	95000	5	5	FT	STRUCTURAL STEEL, MISC.: L4X4X1/2	
		11				513	95030	11	11	EACH	STRUCTURAL STEEL, MISC.: 5/8" DIA. A325 BOLTS	
		15		4		513	95030	19	19	EACH	STRUCTURAL STEEL, MISC.: 5/8" DIA. THREADED ANCHOR RODS	
5,784	7,509				11,972	SPECIAL	606E10210	25265	25,265	SQ FT	NOISE BARRIER (REFLECTIVE)	
		1,035	535	6,992		SPECIAL	606E10920	8562	8,562	SQ FT	NOISE BARRIER (REFLECTIVE), PARAPET MOUNTED	
		36				SPECIAL	606E10920	36	36	SQ FT	NOISE BARRIER (METAL PANELS)	

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SS NO. 7168

CALCULATED
RSH
CHECKED
EDK

SANITARY SEWER PROFILES

HAM-75-7.85

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