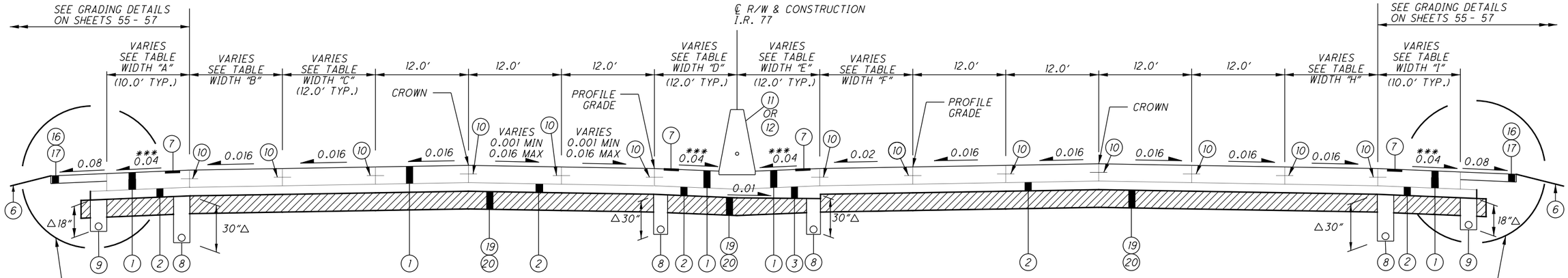


SEE EDGE DETAILS ON SHEET 54
SEE GUARDRAIL INSTALLATION DETAIL ON SHEET 52
SEE CURB DETAIL "A" ON SHEET 54
SEE BARRIER DETAIL "A" ON SHEET 54
SEE NOISE BARRIER C PLANS ON SHEETS 1082 - 1091
SEE NOISE BARRIER E PLANS ON SHEETS 1092 - 1100

I.R. 77 NORMAL SECTION

LIMITING STATIONS

STA. 391+37.36 TO STA. 425+05.16
STA. 427+10.73 TO STA. 429+01.43
STA. 431+16.15 TO STA. 469+46.33

SEE EDGE DETAILS ON SHEET 54
SEE GUARDRAIL INSTALLATION DETAIL ON SHEET 52
SEE CURB DETAIL "A" ON SHEET 54
SEE BARRIER DETAIL "A" ON SHEET 54
SEE NOISE BARRIER G PLANS ON SHEETS 1101 - 1109

FOR EXISTING LEGEND, SEE SHEET 59
FOR SUPERELEVATION TABLES, SEE SHEETS 805 - 806
FOR WIDTH TABLE, SEE SHEET 36

△ - OR AS SHOWN IN UNDERDRAIN PLANS, SHEETS 922 - 925

⬡ - PROJECT WAS ORIGINALLY DESIGNED AS DUAL PAVEMENT, HOWEVER THE RIGID PAVEMENT OPTION HAS NOW BEEN REMOVED FROM THE PROJECT. ANY AND ALL REFERENCE THROUGHOUT THE PLANS TO RIGID PAVEMENT OPTION ARE NOW CONSIDERED NULL AND VOID.

NOTE 'A'
TACK COAT SHALL BE APPLIED BETWEEN THE MULTIPLE LIFTS OF ITEM 302.

* 0.04 OR RATE OF PAVEMENT SLOPE IF GREATER.

** FOR HIGH SIDE SHOULDER SLOPES, SEE SHOULDER DETAIL "A" ON SHEET 52 .

*** FOR SHOULDER SLOPES APPROACHING WARNER ROAD BRIDGE AND THE TUSCARAWAS RIVER BRIDGE SEE SUPERELEVATION TABLES ON SHEETS 805 - 806 .

PROPOSED LEGEND

(1) ~~RIGID PAVEMENT OPTION USING:~~
~~ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA~~ ⬡
-OR-
FLEXIBLE PAVEMENT OPTION USING:
ITEM 442 - 1½" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN
ITEM 442 - ANTI-SEGREGATION EQUIPMENT
ITEM 407 - NON-TRACKING TACK COAT (SEE NOTE 'A' ON THIS SHEET)
ITEM 442 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446), AS PER PLAN
ITEM 442 - ANTI-SEGREGATION EQUIPMENT
ITEM 407 - NON-TRACKING TACK COAT (SEE NOTE 'A' ON THIS SHEET)
ITEM 302 - 8" ASPHALT CONCRETE BASE, PG64-22

(2) ITEM 304 - 6" AGGREGATE BASE

(3) ITEM 304 - VARIABLE DEPTH AGGREGATE BASE (6" MINIMUM)

(4) ITEM 204 - SUBGRADE COMPACTION

(5) ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1

(6) ITEM 659 - SEEDING AND MULCHING

(7) ~~RIGID OPTION:~~
~~ITEM 618 - RUMBLE STRIPS, SHOULDER (CONCRETE)~~ ⬡
-OR-
FLEXIBLE OPTION:
ITEM 618 - RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)

(8) ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC

(9) ITEM 605 - 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC

(10) ~~LONGITUDINAL JOINT AS PER BP-2.1 (FOR RIGID PAVEMENT OPTION)~~ ⬡

(11) ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1 (4" ITS MULTICELL CONDUIT PER SCD RM-4.3)

(12) ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1 (4" ITS MULTICELL CONDUIT PER SCD RM-4.3)

(13) ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D

(14) ITEM 441 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), (UNDER GUARDRAIL), AS PER PLAN

(15) ITEM 209 - LINEAR GRADING, AS PER PLAN

(16) ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN
ITEM 617 - SHOULDER PREPARATION
ITEM 617 - WATER

(17) ITEM 408 - PRIME COAT, AS PER PLAN

(18) ITEM 606 - GUARDRAIL, TYPE MGS

(19) ITEM 206 - CEMENT
ITEM 206 - CURING COAT
ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP (SEE SHEET 69)

(20) ITEM 204 - PROOF ROLLING

(21) ITEM 601 - CONCRETE SLOPE PROTECTION

(22) ITEM 601 - PAVED GUTTER, TYPE 1-2, AS PER PLAN

(23) ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN

(24) ITEM 526 - REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN

(25) ITEM 526 - REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17")

(26) ITEM 609 - CURB, TYPE 4-C, AS PER PLAN

(27) ITEM 202 - PAVEMENT REMOVED

(28) ITEM 441 - 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22

(29) ITEM 441 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)

(30) ITEM 302 - 4" ASPHALT CONCRETE BASE, PG64-22

(31) ITEM 407 - NON-TRACKING TACK COAT (SEE NOTE 'A' ON THIS SHEET)

(32) ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE

(33) ITEM 442 - 1½" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN
ITEM 442 - ANTI-SEGREGATION EQUIPMENT

(34) ITEM 442 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446), AS PER PLAN
ITEM 442 - ANTI-SEGREGATION EQUIPMENT

(35) ITEM 302 - 8" ASPHALT CONCRETE BASE, PG64-22

(36) ITEM 601 - 12" ROCK CHANNEL PROTECTION, TYPE D WITH AGGREGATE FILTER, AS PER PLAN

(37) ITEM 671 - EROSION CONTROL MAT, TYPE G

(38) ITEM 836 - SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1

(39) ITEM 601 - 18" ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER, AS PER PLAN

(40) ITEM 618 - RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)

REVISIONS		
NO.	DATE	DESCRIPTION
5	04/22/21	REVISED ITEM 601 DESCRIPTION
6	04/26/21	REVISED ITEM 601 DESCRIPTION

TYPICAL SECTIONS

SUM-77/277/224
VARIOUS

29
1288

EROSION CONTROL

SEEDING AND MULCHING

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.

FOR SEEDING AND MULCHING QUANTITIES, SEE SHEETS GS0034 & GS0095

ITEM 601 - PAVED GUTTER, TYPE 1-2, AS PER PLAN

THIS ITEM SHALL CONSIST OF CONSTRUCTING CONCRETE PAVED GUTTER AS PER STANDARD CONSTRUCTION DRAWING DM-2.1 AND THE DETAILS AS SHOWN ON SHEETS GY346 & GY245 THE LOCATIONS SHOWN IN THE PLANS. THE GUTTER SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN IN THE DETAIL. A SIDE CUTOFF WALL SHALL BE CONSTRUCTED AS SHOWN PER THE DETAIL FOR THE ENTIRE LENGTH OF THE GUTTER. END CUTOFF WALLS SHALL BE AS PER STANDARD DRAWING DM-2.1. PEJF (PREFORMED EXPANSION JOINT FILLER) SHALL BE PER CMS 516 AND IS INCLUDED IN THE COST OF THE PAVED GUTTER.

ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE ABOVE-DESCRIBED WORK SHALL BE INCLUDED IN THE CONTRACT PRICE BID FOR ITEM 601 - PAVED GUTTER, TYPE 1-2, AS PER PLAN.

ITEM 601 - ROCK CHANNEL PROTECTION, TYPE D WITH AGGREGATE FILTER, AS PER PLAN

THIS ITEM SHALL CONSIST OF PLACING ROCK CHANNEL PROTECTION WITH AGGREGATE FILTER PER CMS ITEM 601.09 AND ITEM 703.19 EXCEPT THAT ALL MATERIALS SHALL BE NATURAL STONE.

ITEM 601 - ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER, AS PER PLAN

THIS ITEM SHALL CONSIST OF PLACING ROCK CHANNEL PROTECTION WITH AGGREGATE FILTER PER CMS ITEM 601.09 AND ITEM 703.19 EXCEPT THAT ALL MATERIALS SHALL BE NATURAL STONE.

WATER QUALITY

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

VEGETATED FILTER STRIP

THIS PLAN UTILIZES VEGETATED FILTER STRIP(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AND ITEM 670, SLOPE EROSION PROTECTION TO ALL DISTURBED AREAS DESIGNATED AS VEGETATED FILTER STRIPS, THE EDGE OF SHOULDER, AND THE FORESLOPE AS SPECIFIED IN THE PLANS.

VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTER(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL, AS SHOWN IN THE PLAN CROSS SECTIONS. PROVIDE ITEM 670 AS SPECIFIED IN THE PLANS. ALL DITCHES LOCATED WITHIN LIMITS OF VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL AND NOT HAVE ROUNDING.

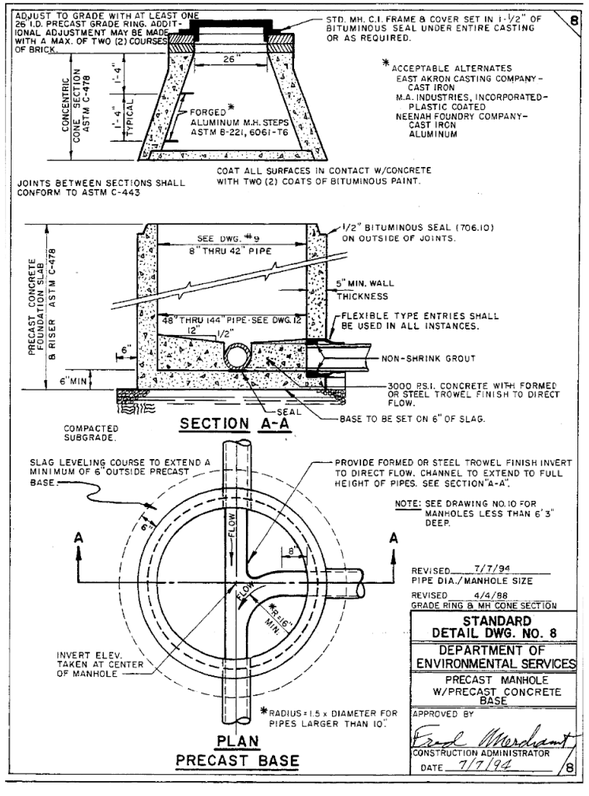
SANITARY SEWER

SUMMIT COUNTY D.O.E.S. SANITARY SEWER NOTES

ALL SEWER WORK ITEMS AND CONSTRUCTION SHALL CONFORM TO ODOT ITEM 611 AND THE SUMMIT COUNTY D.O.E.S. CONSTRUCTION AND MATERIAL SPECIFICATIONS AND APPLICABLE DETAILS. WHERE THERE IS CONTRADICTION, THE SUMMIT COUNTY D.O.E.S. SPECIFICATIONS WILL TAKE PRECEDENCE.

ITEM 611 - MANHOLE ADJUSTED TO GRADE, AS PER PLAN (SANITARY)

THIS ITEM SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY FOR ADJUSTMENT OF THE SANITARY MANHOLES IN ACCORDANCE WITH ODOT ITEM 611 AND THE SUMMIT COUNTY DEPARTMENT OF ENVIRONMENT SERVICES (D.O.E.S.) DETAIL ON THIS SHEET.



CITY OF AKRON SANITARY SEWER NOTES

ALL SEWER WORK ITEMS AND CONSTRUCTION SHALL CONFORM TO ODOT ITEM 611 AND THE CITY OF AKRON CONSTRUCTION AND MATERIAL SPECIFICATIONS AND APPLICABLE DETAILS. WHERE THERE IS CONTRADICTION, THE CITY OF AKRON SPECIFICATIONS WILL TAKE PRECEDENCE.

ITEM 611 - MANHOLE NO. 3, AS PER PLAN (SANITARY)

THIS ITEM SHALL CONSIST OF CONSTRUCTING A SANITARY SEWER MANHOLE IN ACCORDANCE WITH ODOT ITEM 611 AND ODOT STANDARD CONSTRUCTION DRAWING MH-1.2 EXCEPT THAT A SEALED AND WATER-TIGHT LID MUST BE PROVIDED DUE TO THE PROXIMITY OF THE ADJACENT STREAM. THIS ITEM SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY FOR CONSTRUCTION OF THE SANITARY MANHOLES.

ENVIRONMENTAL

WETLAND IMPACTS/AVOIDANCE

FOR WETLAND IMPACTS, PLEASE REFER TO THE NOTE SHOWN ON SHEET GDE1

TEMPORARY WETLAND IMPACT

TEMPORARY ACCESS FILLS IN WETLAND A MUST BE REMOVED ENTIRELY AND WETLAND A MUST BE RETURNED TO PRE-CONSTRUCTION CONTOURS. ANY TOPSOIL REMOVED FROM THE WETLAND WILL BE STOCKPILED AND REPLACED POST-CONSTRUCTION. THE AREAS SURROUNDING THE STOCKPILES ARE TO BE PROTECTED FROM SEDIMENT WITH THE USE OF PERIMETER CONTROL DEVICES SUCH AS EARTH, STRAW BALES OR SILT FENCES. THESE PERIMETER CONTROL DEVICES SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. RESTORE ALL STOCKPILE AND PLACEMENT AREAS UPON COMPLETION OF THE PROJECT. ANY BARE AREAS WITHIN THE TEMPORARY WETLAND IMPACT BOUNDARIES WILL NEED TO BE RESEEDED WITH A NATIVE, NON-INVASIVE SPECIES SEED MIX. ERNMX-128 SEASONALLY FLOODED WILDLIFE FOOD MIX OR EQUIVALENT AT A SEEDING RATE OF 20 LB PER ACRE OR 1/2 LB PER 1,000 SQ FT.

BEST MANAGEMENT PRACTICES/SOIL EROSION AND SEDIMENTATION CONTROL

ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SPECIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE IN PLACE PRIOR TO ANY EXCAVATION, GRADING OR FILLING OPERATIONS AND INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES. THEY SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE AND THE AREA IS STABILIZED AS ACCEPTED BY THE ENGINEER.

ENDANGERED BAT HABITAT REMOVAL

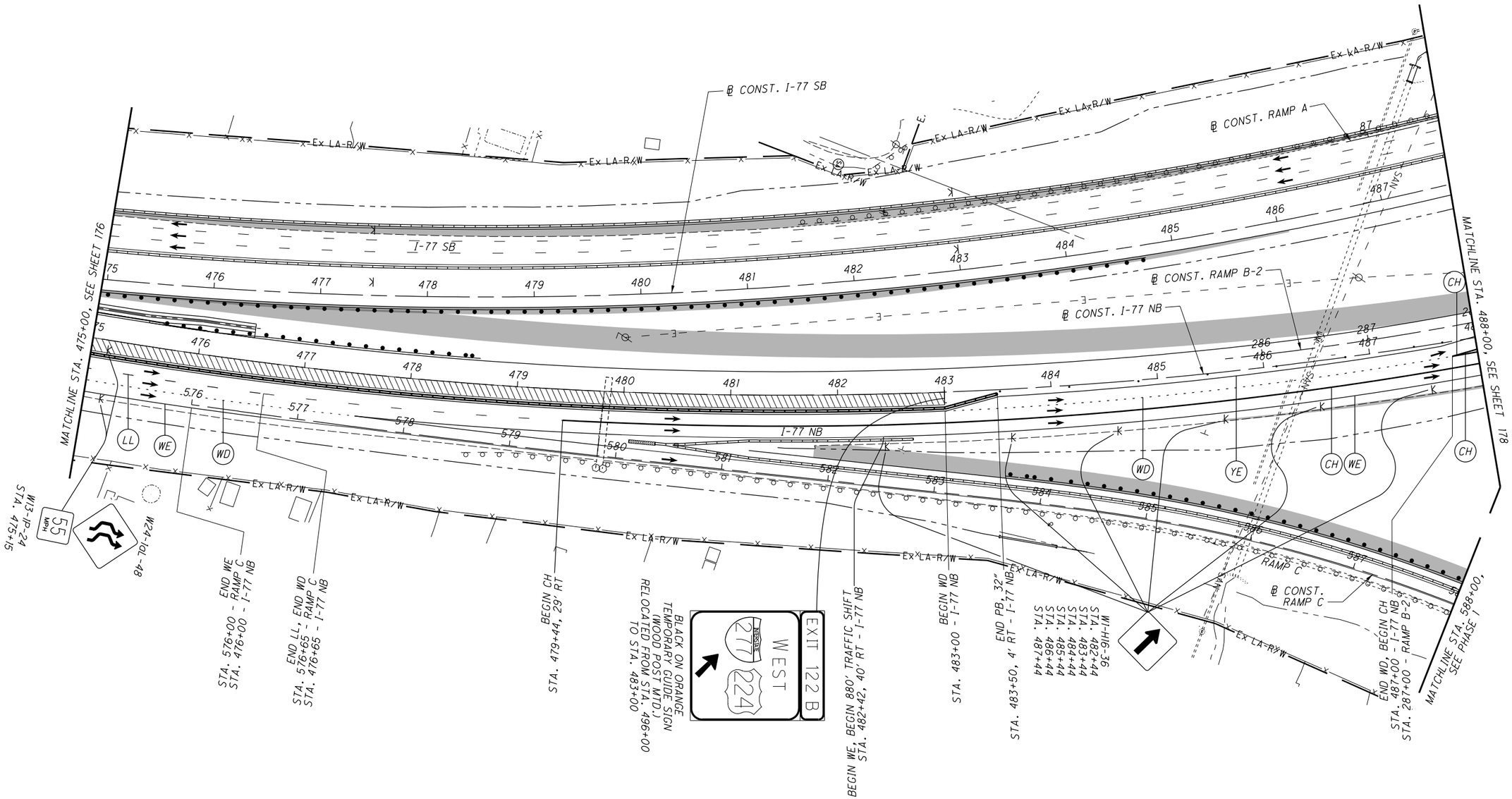
THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT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

CALCULATED ATR
CHECKED PJF

GENERAL NOTES

SUM-77 / 277 / 224
VARIOUS

REVISIONS		
NO.	DATE	DESCRIPTION
4	04/20/21	WETLAND NOTE REVISED
5	04/22/21	ROCK CHANNEL PROT. NOTE ADDED
6	04/26/21	ROCK CHANNEL PROT. NOTE ADDED



NOTES:

1. SEE SHEET 128 FOR MOT LEGEND AND DRUM SPACING CHART.
2. SEE SHEETS 157-170 FOR RAMP C CROSS SECTIONS.
3. MOT SIGNS AND DEVICES ARE EXISTING FROM PHASE 1 UNLESS OTHERWISE NOTED.

REVISIONS		
NO.	DATE	DESCRIPTION
6	04/23/21	I-77 NB LANE SHIFT/SIGNING CHANGES

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED .
CHECKED .

MAINTENANCE OF TRAFFIC PLAN - PHASE 1B
I-77 - STA. 475+00 TO STA. 488+00

SUM-77/277/224
VARIOUS

177
1288

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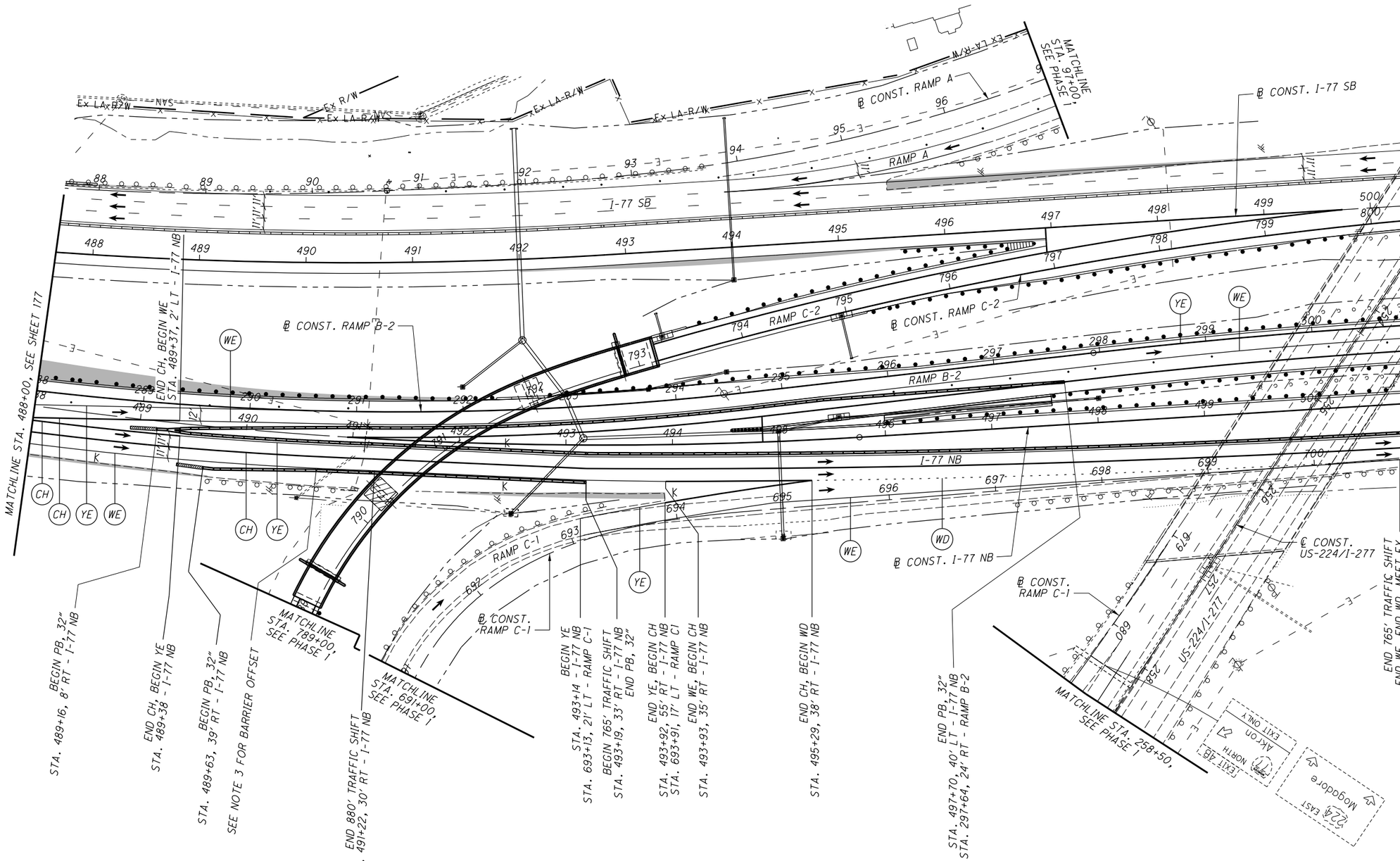

NOTES:

1. SEE SHEET 128 FOR MOT LEGEND AND DRUM SPACING CHART.
2. MOT SIGNS AND DEVICES ARE EXISTING FROM PHASE I UNLESS OTHERWISE NOTED.
3. OFFSET TO NB RIGHT BARRIER IS 1' FROM STA. 490+69 TO STA. 493+19.

REVISIONS		
NO.	DATE	DESCRIPTION
6	04/23/21	I-77 NB LANE SHIFT/SIGNING CHANGES

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED . CHECKED .

MAINTENANCE OF TRAFFIC PLAN - PHASE 1B
I-77 - STA. 488+00 TO STA. 501+00

SUM-77/277/224
VARIOUS

178
1288

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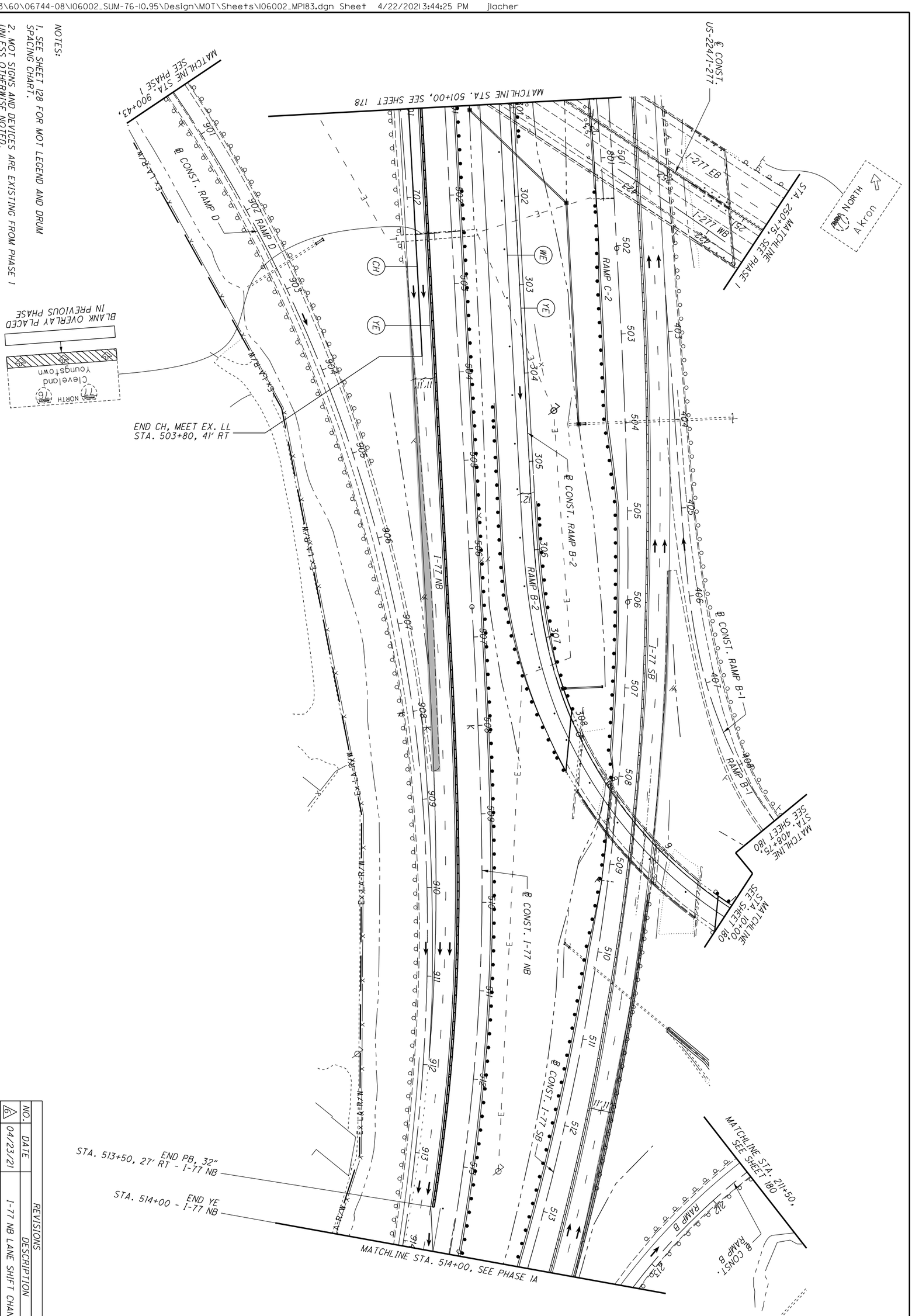
NOTES:
1. SEE SHEET 128 FOR MOT LEGEND AND DRUM SPACING CHART.
2. MOT SIGNS AND DEVICES ARE EXISTING FROM PHASE I UNLESS OTHERWISE NOTED.



NO.	DATE	REVISIONS DESCRIPTION
6	04/23/21	I-77 NB LANE SHIFT CHANGES

1288	179	SUM-77/277/224 VARIOUS	MAINTENANCE OF TRAFFIC PLAN - PHASE 1B I-77 - STA. 501+00 TO STA. 514+00	CALCULATED . CHECKED .	0 50 25 100 HORIZONTAL SCALE IN FEET

SHEET NUMBER											PARTICIPATION						ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS	73	407	408	410	416	444	911	1158	1184	1228	01/IMS/PV	02/IMS/PV	03/IMS/BR	04/IMS/BR	05/IMS/BR	06/IMS/BR						
																					ROADWAY (CONTINUED)	
		9									8	1					622	25050	9	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
		2									2						622	25051	2	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN	68
	12										11	1					623	38500	12	EACH	MONUMENT ASSEMBLY	
	2										2						623	39500	2	EACH	MONUMENT BOX ADJUSTED TO GRADE	
	6										5	1					SPECIAL	69098000	6	EACH	VERTICAL CLEARANCE	68
																					~~ROADWAY (RIGID PAVEMENT OPTION)~~	
	~~16400~~				~~160956~~						~~159620~~	~~17736~~					~~203~~	~~10000~~	~~177356~~	~~CY~~	~~EXCAVATION~~	
	~~16300~~				~~85288~~						~~91429~~	~~10159~~					~~203~~	~~20000~~	~~101588~~	~~CY~~	~~EMBANKMENT~~	
																					EROSION CONTROL	
				8							7	1					601	11000	8	SY	RIPRAP, TYPE D	
								310		210			202	108	210		601	20000	520	SY	CRUSHED AGGREGATE SLOPE PROTECTION	
272											245	27					601	21000	272	SY	CONCRETE SLOPE PROTECTION	
	8		128								122	14					601	21050	136	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
			94								85	9					601	21060	94	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
							21									21	601	28101	21	CY	DUMPED ROCK FILL, AS PER PLAN	910
				26							23	3					601	32000	26	CY	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER	
				61							55	6					601	32100	61	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
			12								11	1					601	32104	12	CY	ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC	
				7							6	1					601	32110	7	CY	ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER	
									637				414	223			601	32200	637	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
			70								63	7					601	32204	70	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC	
			17	3							18	2					601	32210	20	CY	ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER	
			177								159	18					601	32211	177	CY	ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER, AS PER PLAN	72
			249								224	25					601	32311	249	CY	ROCK CHANNEL PROTECTION, TYPE D WITH AGGREGATE FILTER, AS PER PLAN	72
				78							70	8					601	37500	78	FT	PAVED GUTTER, TYPE 1-2	
			507								456	51					601	37501	507	FT	PAVED GUTTER, TYPE 1-2, AS PER PLAN	72
					3						3						659	00100	3	EACH	SOIL ANALYSIS TEST	
					25156						22640	2516					659	00300	25156	CY	TOPSOIL	
					226634						203971	22663					659	10000	226634	SY	SEEDING AND MULCHING	
					11332						10199	1133					659	14000	11332	SY	REPAIR SEEDING AND MULCHING	
					11332						10199	1133					659	15000	11332	SY	INTER-SEEDING	
					31.62						28.46	3.16					659	20000	31.62	TON	COMMERCIAL FERTILIZER	
					46.83						42.15	4.68					659	31000	46.83	ACRE	LIME	
					1255						1130	125					659	35000	1255	MGAL	WATER	
					7312						6581	731					670	00500	7312	SY	SLOPE EROSION PROTECTION	
			20260								18234	2026					670	00700	20260	SY	DITCH EROSION PROTECTION	
			242								218	24					671	15060	242	SY	EROSION CONTROL MAT, TYPE G	
						LS					LS	LS					832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
						LS					LS	LS					832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
						LS					LS	LS					832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
						1150000					1035000	115000					832	30000	1150000	EACH	EROSION CONTROL	72
			5435								4892	543					836	10000	5435	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	
			299								269	30					836	10020	299	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2	

REVISIONS		
NO.	DATE	DESCRIPTION
4	04/20/21	REVISED RIPRAP, TYPE D QUANTITY
5	04/22/21	UPDATED SEEDING QUANTITIES & REVISED ITEM 601 QUANTITIES
6	04/26/21	REVISED ITEM 601 QUANTITY

CALCULATED LRK
CHECKED PJF

GENERAL SUMMARY

SUM-77 / 277 / 224
VARIOUS

403
1288

SHEET NUMBER									PARTICIPATION						ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	73			409	410		911		01/IMS/PV	02/IMS/PV	03/IMS/BR	04/IMS/BR	05/IMS/BR	06/IMS/BR						
																			DRAINAGE	
				12.2	11.7				21.5	2.4					602	20000	23.9	CY	CONCRETE MASONRY	
				65167					58650	6517					605	11110	65167	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
	40			1953					1794	199					605	13410	1993	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
				70071					63064	7007					605	14020	70071	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
				1464					1318	146					611	00510	1464	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
	200			2948					2833	315					611	00900	3148	FT	6" CONDUIT, TYPE B	
	200								180	20					611	01100	200	FT	6" CONDUIT, TYPE C	
	200								180	20					611	01400	200	FT	6" CONDUIT, TYPE E	
	240								216	24					611	01500	240	FT	6" CONDUIT, TYPE F	
				4428					3985	443					611	05900	4428	FT	15" CONDUIT, TYPE B	
				9					8	1					611	05900	9	FT	15" CONDUIT, TYPE B, 706.02	
				327					294	33					611	06100	327	FT	15" CONDUIT, TYPE C	
				665					599	66					611	06700	665	FT	15" CONDUIT, TYPE F	
					7				6	1					611	07200	7	FT	18" CONDUIT, TYPE A, 706.02	
				1054					949	105					611	07400	1054	FT	18" CONDUIT, TYPE B	
				121					109	12					611	07600	121	FT	18" CONDUIT, TYPE C	
				40					36	4					611	08200	40	FT	18" CONDUIT, TYPE F	
				554					499	55					611	08900	554	FT	21" CONDUIT, TYPE B	
				297					267	30					611	09100	297	FT	21" CONDUIT, TYPE C	
				103					93	10					611	10200	103	FT	24" CONDUIT, TYPE A	
					10				9	1					611	10200	10	FT	24" CONDUIT, TYPE A, 706.02	
				101					91	10					611	10400	101	FT	24" CONDUIT, TYPE B	
				8					7	1					611	10400	8	FT	24" CONDUIT, TYPE B, 706.02	
				183					165	18					611	13400	183	FT	30" CONDUIT, TYPE B	
				90					81	9					611	13600	90	FT	30" CONDUIT, TYPE C	
				44					40	4					611	16400	44	FT	36" CONDUIT, TYPE B	
				130					117	13					611	16600	130	FT	36" CONDUIT, TYPE C	
					16				14	2					611	23600	16	FT	60" CONDUIT, TYPE A, 706.02	
					12				11	1					611	25000	12	FT	66" CONDUIT, TYPE A, 706.02	
					20				18	2					611	30000	20	FT	96" CONDUIT, TYPE A, 707.02, 707.03 OR 707.04	
							16							16	611	95001	16	FT	10' X 5' CONDUIT, TYPE A, 706.05, AS PER PLAN	911
					317				285	32					611	96550	317	FT	FIELD PAVING OF EXISTING PIPE, 96" 707.02, 707.03 OR 707.04	
					20				18	2					611	96560	20	FT	CONDUIT, FIELD PAVING OF PIPE, 96" 707.02, 707.03 OR 707.04	
				460					414	46					611	96600	460	FT	CONDUIT, BORED OR JACKED, 15", TYPE B, 748.06	70
				155					140	15					611	96600	155	FT	CONDUIT, BORED OR JACKED, 18", TYPE B, 748.06	70
				102					92	10					611	96600	102	FT	CONDUIT, BORED OR JACKED, 24", TYPE B, 748.06	70
					294				265	29					611	96600	294	FT	CONDUIT, BORED OR JACKED, 30", TYPE A, 748.06	70
				199					179	20					611	96600	199	FT	CONDUIT, BORED OR JACKED, 42", TYPE B, 748.06	70
				22					20	2					611	97400	22	FT	CONDUIT, MISC.: 18", TYPE B, 748.06, OPEN CUT	70
					46				41	5					611	97400	46	FT	CONDUIT, MISC.: 30", TYPE A, 748.06, OPEN CUT	70
				1					1						611	98151	1	EACH	CATCH BASIN, NO. 3, AS PER PLAN	71
				6					5	1					611	98180	6	EACH	CATCH BASIN, NO. 3A	
				2					2						611	98370	2	EACH	CATCH BASIN, NO. 6	
				1					1						611	98371	1	EACH	CATCH BASIN, NO. 6, AS PER PLAN	71
				13					12	1					611	98410	13	EACH	CATCH BASIN, NO. 8	
				7					6	1					611	99100	7	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	
				21					19	2					611	99110	21	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1	
				1					1						611	99111	1	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN	70
				3					3						611	99114	3	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D	
				6					5	1					611	99574	6	EACH	MANHOLE, NO. 3	
				1					1						611	99661	1	EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN	70
	4			64					61	7					611	99710	68	EACH	PRECAST REINFORCED CONCRETE OUTLET	
	10000								9000	1000					SPECIAL	61199820	10000	LB	MISCELLANEOUS METAL	70

REVISIONS		
NO.	DATE	DESCRIPTION
6	04/26/21	REVISED CONDUITS, BORED OR JACKED

CALCULATED LRK
CHECKED PJF

GENERAL SUMMARY

SUM-77 / 277 / 224
VARIOUS

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SHEET NO.	601 ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER, AS PER PLAN CY	601 ROCK CHANNEL PROTECTION, TYPE D WITH AGGREGATE FILTER, AS PER PLAN CY	601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT SY	601 TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT SY	601 ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC CY	601 ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC CY	601 ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER CY	601 PAVED GUTTER, TYPE 1-2, AS PER PLAN FT		670 DITCH EROSION PROTECTION SY			671 EROSION CONTROL MAT, TYPE G SY				836 SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 SY	836 SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2 SY				
420				47		21	7			8628							3823	299				
421	17	122				8	2			7616			242				594					
422	160	127		47	12	41	8	507		4016							1018					
432			8																			
433			22																			
434			24																			
435			14																			
436			14																			
437			18																			
438			28																			
TOTALS CARRIED TO GENERAL SUMMARY	177	249	128	94	12	70	17	507		20260			242				5435	299				

SHEET NO.
TOTALS CARRIED TO GENERAL SUMMARY

REVISIONS		
NO.	DATE	DESCRIPTION
5	04/22/21	REVISED ITEM 601 - RCP QUANTITY
6	04/26/21	REVISED ITEM 601 - RCP QUANTITY

CALCULATED LRK
CHECKED PJF

EROSION CONTROL SUBSUMMARY

SUM-77/277/224
VARIOUS

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SHEET NO.	602 CONCRETE MASONRY		605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	605 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	605 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	611 CONDUIT, BORED OR JACKED, 24", TYPE B, 748.06	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	611 6" CONDUIT, TYPE B	611 15" CONDUIT, TYPE B	611 15" CONDUIT, TYPE B, 706.02	611 15" CONDUIT, TYPE C	611 15" CONDUIT, TYPE F	611 18" CONDUIT, TYPE B	611 18" CONDUIT, TYPE C	611 18" CONDUIT, TYPE F	611 21" CONDUIT, TYPE B	611 21" CONDUIT, TYPE C	611 24" CONDUIT, TYPE A	611 24" CONDUIT, TYPE B	611 24" CONDUIT, TYPE B, 706.02	611 30" CONDUIT, TYPE B	611 30" CONDUIT, TYPE C
	CY		FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
428	9.4																						
429	2.8					102			2788			249	1054	71		456		103					
430									1640	9	327	416		50	40	98	297		101	8	183	90	
432			8408	761	7575		108	480															
433			8401		5895		223	355															
434			5932		4821		262	324															
435			11038	213	9384		161	329															
436			8872	74	13783		216	356															
437			12652		13307		255	462															
438			9415	218	12863		231	382															
439			449	687	2443		8	260															
TOTALS CARRIED TO GENERAL SUMMARY	12.2		65167	1953	70071	102	1464	2948	4428	9	327	665	1054	121	40	554	297	103	101	8	183	90	

SHEET NO.	611 36" CONDUIT, TYPE B	611 36" CONDUIT, TYPE C	611 CONDUIT, BORED OR JACKED, 15", TYPE B, 748.06	611 CONDUIT, BORED OR JACKED, 18", TYPE B, 748.06	611 CONDUIT, BORED OR JACKED, 42", TYPE B, 748.06	611 CONDUIT, MISC.: 18", TYPE B, 748.06, OPEN CUT	611 27" CONDUIT, TYPE C, 707.48 (SANITARY)	611 CATCH BASIN, NO. 3, AS PER PLAN	611 CATCH BASIN, NO. 3A	611 CATCH BASIN, NO. 6	611 CATCH BASIN, NO. 6, AS PER PLAN	611 CATCH BASIN, NO. 8	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D	611 MANHOLE, NO. 3	611 MANHOLE, NO. 3 (SANITARY)	611 MANHOLE, NO. 3, AS PER PLAN (SANITARY)	611 MANHOLE ADJUSTED TO GRADE, AS PER PLAN (SANITARY)	611 MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN	611 PRECAST REINFORCED CONCRETE OUTLET
	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
417													7	8								
418								1	6	2	1	13		13	1	3	6					
419																					1	
429	44	65	340		199																	
430		65	120	155		22																
431							126											1	2	2		
432																						4
433																						11
434																						12
435																						7
436																						7
437																						9
438																						14
TOTALS CARRIED TO GENERAL SUMMARY	44	130	460	155	199	22	126	1	6	2	1	13	7	21	1	3	6	1	2	2	1	64

CALCULATED LRK
CHECKED PJF

DRAINAGE SUBSUMMARY

SUM-77 / 277 / 224
VARIOUS

REVISIONS

NO.	DATE	DESCRIPTION
6	04/26/21	REVISED CONDUITS, BORED OR JACKED

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D:\2017\2017258\ProjectData\SUM\06002\Design\Roadway\Sheets\06002_GS010.dgn Sheet 4/26/2021 10:25:08 AM pfry

REF. NO.	SHEET NO.	STATION FROM	STATION TO	SIDE	601 ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER, AS PER PLAN CY		601 ROCK CHANNEL PROTECTION, TYPE D WITH AGGREGATE FILTER, AS PER PLAN CY				601 ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC CY		601 ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER CY				670 DITCH EROSION PROTECTION SY		671 EROSION CONTROL MAT, TYPE G SY		836 SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 SY	
E-46	461	427+40.06 (I.R. 77)		LT							1.33												
E-47	463	431+63.18 (I.R. 77)		LT							1.33												
E-48	461	426+72.66 (I.R. 77)		RT							1.33												
E-49	463	431+06.54 (I.R. 77)		RT							1.33												
E-50	495	25+00.81 (RAMP B-2)		RT							1.33												
E-51	496	31+85.70 (RAMP B-2)		RT							1.33												
E-53	476	480+50.00 (SB I.R. 77)	482+00.00 (SB I.R. 77)	LT									1.56				122.40						
E-54	488	206+00.00 (RAMP B)		LT																			
E-55	476	482+00.00 (SB I.R. 77)	484+50.00 (SB I.R. 77)	LT																	203.47		
E-56	476	484+50.00 (SB I.R. 77)	487+00.00 (SB I.R. 77)	LT													297.82						
E-57	472	481+43.00 (NB I.R. 77)	483+00.00 (NB I.R. 77)	LT													250.69						
E-58	472	483+00.00 (NB I.R. 77)	286+00.00 (RAMP B-2)	LT													363.39						
E-59	492	286+00.00 (RAMP B-2)	290+50.00 (RAMP B-2)	LT													545.60						
E-60	472	483+00.00 (NB I.R. 77)	486+50.00 (NB I.R. 77)	RT													297.05						
E-61	472 , 473	486+50.00 (NB I.R. 77)	488+50.00 (NB I.R. 77)	RT													249.08						
E-62	476 , 477	484+00.00 (SB I.R. 77)	493+00.00 (NB I.R. 77)	RT													754.36						
E-63	477	493+00.00 (SB I.R 77)	494+00.00 (SB I.R. 77)	RT													150.36						
E-64	477	494+00.00 (SB I.R. 77)	495+57.00 (SB I.R. 77)	RT													131.12						
E-65	492	290+50.00 (RAMP B-2)	292+00.00 (RAMP B-2)	LT													181.88						
E-66	473	490+92.96 (NB I.R. 77)	492+50.00 (NB I.R. 77)	RT													195.29						
E-67	473	492+50.00 (NB I.R. 77)	493+50.00 (NB I.R. 77)	RT													125.21						
E-68	492 , 493	294+50.00 (RAMP B-2)	296+06.92 (RAMP B-2)	LT													130.72						
E-69	493	297+50.00 (RAMP B-2)	299+51.15 (RAMP B-2)	RT													166.66						
E-70	500	689+00.00 (RAMP C-1)	692+00.00 (RAMP C-1)	LT													287.89						
E-71	500	692+00.00 (RAMP C-1)	692+47.47 (RAMP C-1)	LT													47.38						
E-72	500	690+50.00 (RAMP C-1)	692+50.00 (RAMP C-1)	RT													222.52						
E-73	500	693+50.00 (RAMP C-1)	694+97.52 (RAMP C-1)	RT													247.29						
E-74	500	694+97.52 (RAMP C-1)	696+50.00 (RAMP C-1)	RT													186.62						
E-75	500	696+50.00 (RAMP C-1)	697+50.00 (RAMP C-1)	RT													83.34						
E-76	493	301+00.00 (RAMP B-2)	305+50.00 (RAMP B-2)	RT													375.12						
E-77	474	507+50.00 (NB I.R. 77)	508+50.00 (NB I.R. 77)	LT													85.08						
E-78	503	799+91.89 (RAMP C-2)	801+48.91 (RAMP C-2)	RT													129.76						
E-79	478	500+88.15 (SB I.R. 77)	504+00.00 (SB I.R. 77)	RT													261.01						
E-80	478	504+00.00 (SB I.R. 77)	507+00.00 (SB I.R. 77)	RT													248.94						
E-81	504	887+98.38 (RAMP D)	890+78.60 (RAMP D)	RT																	306.84		
E-82	504	894+00.00 (RAMP D)	896+50.00 (RAMP D)	LT													210.81						
E-83	504	896+50.00 (RAMP D)	897+00.00 (RAMP D)	LT																	42.68		
E-84	498	591+50.00 (RAMP C)	592+50.00 (RAMP C)	LT													180.49						
E-85	499	600+00.00 (RAMP C)	600+50.00 (RAMP C)	LT													42.77						
E-86	485	87+71.89 (RAMP A)	91+90.00 (RAMP A)	LT	16.73		121.97												241.99				
E-87	485	92+00.00 (RAMP A)	92+50.00 (RAMP A)	LT																	40.82		
E-88	480 , 481	113+00.00 (RAMP A)	232+00.00 (I.R. 277)	LT/RT													796.47						
E-89	486	98+00.00 (RAMP A)	99+00.00 (RAMP A)	LT													80.83						
E-90	477	496+00.00 (SB I.R. 77)	498+00.00 (SB I.R. 77)	LT													167.68						
TOTALS CARRIED TO SUBSUMMARY SHEET				**408**	17		122				8		2				7616		242		594		

REVISIONS

NO.	DATE	DESCRIPTION
5	04/22/21	REVISED ITEM 601 - RCP QUANTITY
6	04/26/21	REVISED ITEM 601 - RCP QUANTITY

CALCULATED CJC
CHECKED PJF

ESTIMATED QUANTITIES

SUM-77/277/224
VARIOUS

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REF. NO.	SHEET NO.	STATION FROM	STATION TO	SIDE	601 ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER, AS PER PLAN (CY)		601 ROCK CHANNEL PROTECTION, TYPE D WITH AGGREGATE FILTER, AS PER PLAN (CY)		601 TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT (SY)	601 ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC (CY)	601 ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC (CY)		601 ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER (CY)		601 PAVED GUTTER, TYPE 1-2, AS PER PLAN (FT)		670 DITCH EROSION PROTECTION (SY)				836 SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (SY)	
E-91	494	11+97.63 (RAMP B-2)	13+50.00 (RAMP B-2)	RT													145.02					
E-92	478 , 479	510+00.00 (SB I.R. 77)	514+95.00 (SB I.R. 77)	RT													408.44					
E-93	479	512+00.00 (SB I.R. 77)	513+00.00 (SB I.R. 77)	LT													93.99					
E-94	479	514+00.00 (SB I.R. 77)	514+95.00 (SB I.R. 77)	LT													80.99					
E-96	483 , 484	269+40.00 (I.R. 277)	272+00.00 (I.R. 277)	LT													318.02					
E-97	487	109+50.00 (RAMP A)	113+00.00 (RAMP A)	LT													290.89					
E-99	486	99+00.00 (RAMP A)	99+54.51 (RAMP A)	LT							37.82											
E-100	486	102+00.00 (RAMP A)	103+50.00 (RAMP A)	RT													130.61					
E-101	486	101+50.00 (RAMP A)	102+00.00 (RAMP A)	RT																	44.46	
E-102	485	87+00.00 (RAMP A)	87+50.00 (RAMP A)	LT																	59.75	
E-103	495	26+50.00 (RAMP B-2)	29+00.00 (RAMP B-2)	RT																	209.31	
E-104	488 , 489	206+25.00 (RAMP B)	210+50.00 (RAMP B)	LT	159.77		126.56														223.37	
E-105	488	206+00.00 (RAMP B)	206+18.25 (RAMP B)	LT									7.67									
E-106	488	204+50.00 (RAMP B)	206+00.00 (RAMP B)	LT													131.15					
E-107	488	198+00.00 (RAMP B)	203+00.00 (RAMP B)	LT													406.98					
E-108	488	25+00.00 (RAMP B-2)	198+00.00 (RAMP B)	RT/LT																	108.09	
E-109	495	25+00.00 (RAMP B-2)	26+50.00 (RAMP B-2)	RT													183.34					
E-110	490	413+00.00 (RAMP B-1)	416+50.00 (RAMP B-1)	RT													361.20					
E-111	490	408+50.17 (RAMP B-1)	411+00.00 (RAMP B-1)	RT													240.16					
E-112	494	14+00.00 (RAMP B-2)		RT					6.67													
E-113	494	14+00.00 (RAMP B-2)	15+30.60 (RAMP B-2)	RT													105.83					
E-114	494	16+21.88 (RAMP B-2)	14+80.11 (RAMP B-2)	LT													177.32					
E-115	495	19+00.00 (RAMP B-2)	21+00.00 (RAMP B-2)	LT													257.70					
E-116	495 , 496	29+00.00 (RAMP B-2)	31+00.00 (RAMP B-2)	RT													244.52					
E-117	490	411+00.00 (RAMP B-1)	413+00.00 (RAMP B-1)	RT													208.23					
E-118	481	240+00.00 (I.R. 277)	241+00.00 (I.R. 277)	LT													84.96					
E-119	469 , 472	473+00.00 (NB I.R. 77)	476+50.00 (NB I.R. 77)	LT											348.97							
E-120	493	295+92.25 (RAMP B-2)	297+50.00 (RAMP B-2)	RT											157.75							
E-121	494	9+98.08 (RAMP B-2)		LT					39.81													
E-123	465	445+72.75 (I.R. 77)	445+85.64 (I.R. 77)	LT						7.22												
E-126	480	230+97.30 (I.R. 277)	231+05.28 (I.R. 277)	RT							1.78											
E-127	497	583+65.35 (RAMP C)	584+20.81 (RAMP C)	RT							1.33											
E-128	504	891+38.08 (RAMP D)	891+47.42 (RAMP D)	RT						4.63												
E-131	487	106+00.00 (RAMP A)	107+50.00 (RAMP A)	LT													125.14					
E-133	480	231+55.13 (I.R. 277)	232+00.00 (I.R. 277)	RT																	55.00	
E-134	480	230+00.00 (I.R. 277)	230+97.30 (I.R. 277)	RT																	125.40	
E-135	497	584+26.89 (RAMP C)	584+50.00 (RAMP C)	RT													21.29					
E-136	504	891+39.15 (RAMP D)	893+00.00 (RAMP D)	RT																	192.02	
TOTALS CARRIED TO SUBSUMMARY SHEET				**408**	160		127		47	12	41		8		507		4016				1018	

REVISIONS		
NO.	DATE	DESCRIPTION
5	04/22/21	REVISED ITEM 601 - RCP QUANTITY
6	04/26/21	REVISED ITEM 601 - RCP QUANTITY

CALCULATED CJC
CHECKED PJF

ESTIMATED QUANTITIES

SUM-77/277/224
VARIOUS

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REF. NO.	SHEET NO.	STATION FROM	STATION TO	SIDE	611 15" CONDUIT, TYPE B FT	611 CONDUIT, BORED OR JACKED, 15", TYPE B, 748.06 FT		611 15" CONDUIT, TYPE F FT	611 18" CONDUIT, TYPE B FT	611 18" CONDUIT, TYPE C FT		611 21" CONDUIT, TYPE B FT		611 24" CONDUIT, TYPE A FT	611 CONDUIT, BORED OR JACKED, 24", TYPE B, 748.06 FT		611 36" CONDUIT, TYPE B FT	611 36" CONDUIT, TYPE C FT	611 CONDUIT, BORED OR JACKED, 42", TYPE B, 748.06 FT		602 CONCRETE MASONRY CY	
HW-102	465	446+50.00 (I.R. 77)		LT																		0.76	
HW-105	480	231+55.13 (I.R. 277)		RT																		0.33	
HW-106	497	583+65.35 (RAMP C)		RT																		0.27	
HW-112	465	445+85.63 (I.R. 77)		LT																		0.76	
HW-115	480	231+05.28 (I.R. 277)		RT																		0.33	
HW-116	497	584+20.81 (RAMP C)		RT																		0.27	
P-1	457	D-1	D-2	LT	250																		
P-2	457	D-2	D-3	LT					250														
P-3	457	D-3	D-4	LT					250														
P-4	457 , 459	D-4	D-5	LT					254														
P-5	459	D-5	HW-5	RT								110											
P-6	459	D-6	D-7	LT	312																		
P-7	459	D-7	P-7A	RT	88																		
P-7A	459	P-7	HW-7	RT				44															
P-8	461	D-8	D-9	LT	305																		
P-9	461	D-9	P-9A	LT	73																		
P-9A	461	P-9	HW-9	LT				38															
P-10	461	D-10	D-64	LT	118																		
P-11	461	D-11	P-11A	LT		76																	
P-11A	461	P-11	HW-11	LT				33															
P-12	463	D-12	P-12A	LT		76																	
P-12A	463	P-12	HW-12	LT				55															
P-13	463	D-13	D-14	RT	100																		
P-14	463	D-14	P-14A	LT		81																	
P-14A	463	P-14	HW-14	LT				38															
P-15	463	D-15	D-14	RT	100																		
P-16	463	D-16	P-16A	LT	79																		
P-16A	463	P-16	HW-16	LT				41															
P-17	463	D-17	D-16	RT	298																		
P-18	465	D-18	HW-18	LT		107																	
P-19	465	D-19	D-18	RT	290																		
P-20	465	D-20	HW-20	RT	102																		
P-21	465 , 467	D-21	D-20	RT	298																		
P-22	467	D-22	HW-22	RT											102								
P-23	467	D-23	D-22	RT								290											
P-24	467 , 469	D-24	D-23	RT					300														
P-25	469	D-25	D-24	RT	375																		
P-26	469	HW-26	HW-25	LT										103									
P-26A	492	D-26	DJ-1	LT								56											
P-27	492	D-27	D-28	LT						71													
P-28	477	D-28	HW-28	LT																199			
P-29	492	D-29	D-30	LT/RT														44					
P-30	492	D-30	D-28	LT															65				
TOTALS CARRIED TO SUBSUMMARY SHEET				**409**	2788	340		249	1054	71		456		103	102		44	65	199		2.8		

CALCULATED CJC
CHECKED PJF

ESTIMATED QUANTITIES

SUM-77 / 277 / 224
VARIOUS

REVISIONS

NO.	DATE	DESCRIPTION
6	04/26/21	REVISED CONDUITS, BORED OR JACKED

429
1288

SEEDING END WIDTH	SEEDING SQ. YDS.
	62
	21
	322
	37
	389
	33
	739
	100
	1512

REVISIONS NO.	DATE	DESCRIPTION
6	04/26/21	REVISED CONDUIT, BORED OR JACKED

HW-11
STA. 425+00.00, 109.36' LT
HW-2.1/2.2
15" (E) 1012.27

℄ NOISE WALL C2
STA. 130+26.51

HW-11
E-11
3:1
MASONRY COLLAR PER DM-1.1
P-11A 33'-15" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21
6'L X 4'W X 18"TH ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC
P-11 76'-15" TYPE B, BORED OR JACKED @ 1.00%
D-11
4:1

1025.09 | 425+00.00 | 1023.40
1025.01 | 425+00.00 | 1024.10
425+00.00

D-11
STA. 425+00.00, 3.17' LT
I-3-C1
GRATE LT
WINDOW ELEV LT 1024.66
WINDOW ELEV RT 1024.59
15" (S) 1019.09 "OFFSET"
15" (W) 1019.09
6" UD (N) 1020.67
6" UD (S) 1020.67
6" UD (E) 1020.59

elec

℄ NOISE WALL C2
STA. 129+26.43

12.5:1
ITS WORK PAD
85.3' RT
ELEV. = 1025.94
2:1
elec (by record)
P-64 15" TYPE B

1027.65 | 424+00.00 | 1026.20
1027.56 | 424+00.00 | 1027.76
424+00.00

D-64
STA. 423+18.00, 3.17' LT
I-3-C1
GRATE LT
WINDOW ELEV LT 1029.25
WINDOW ELEV RT 1029.17
15" (N) 1023.84 "OFFSET"
15" (S) 1023.84

℄ NOISE WALL C2
STA. 128+26.39

D-64
12.5:1
12.5:1

1030.32 | 423+00.00 | 1029.34
1030.24 | 423+00.00 | 1029.94
423+00.00

D-10
STA. 422+00.00, 3.17' LT
I-3-C1
GRATE LT
WINDOW ELEV LT 1032.40
WINDOW ELEV RT 1032.32
15" (N) 1026.99
6" UD (W) 1028.57
6" UD (E) 1028.49

MATCHLINE AA
2:1
2:1
EX LA-R/W
SPECIAL BENCHING
138.7' RT
℄=1006.75
132.8' RT
℄=1004.25
120
140
160

℄ NOISE WALL C2
STA. 127+26.39

D-10
12.5:1
ITS WORK PAD
90.0' RT
ELEV. = 1031.09
12.5:1
2:1
SPECIAL BENCHING
MATCHLINE AA

1032.99 | 422+00.00 | 1032.34
1032.91 | 422+00.00 | 1032.30
422+00.00

(#) SPECIAL BENCHING
ITEM 202 - PAVEMENT REMOVED (COMPOSITE)
ITEM 202 - PAVEMENT REMOVED (ASPHALT)

1030 1020 1010 1000 1040

120 100 80 60 40 20 0 20 40 60 80 100 120

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		156	10
105	16		
		428	35
126	3		
		494	9
(0)	(0)		
141	2		
		(239)	(239)
		565	313
(129)	(129)		
164	167		
		(239)	(239)
		1643	367

CALCULATED
CHECKED

CROSS SECTIONS - I.R. 77
STA. 422+00.00 TO STA. 425+00.00

SUM-77 / 277 / 224
VARIOUS

542
1288

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SEEDING END WIDTH	SEEDING SQ. YDS.
	78
	20
	19
	19
	87
	19
	172
	12
	356

REVISIONS NO.	DATE	DESCRIPTION
6	04/26/21	REVISED CONDUIT, BORED OR JACKED

D-12
STA. 428+50.00, 3.17' LT
I-3-C1
GRATE LT
WINDOW ELEV LT 1017.55
WINDOW ELEV RT 1017.52
15" (W) 1012.14
15" (S) 1012.14
6" UD (N) 1013.71
6" UD (S) 1013.71
6" UD (E) 1013.64

MASONRY COLLAR PER DM-1.1

P-12 76'-15" TYPE B, BORED OR JACKED @ 1.00%

P-12A 55'-15" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21

MATCHLINE CC

1018.12 428+50.00 1016.55
1018.06 428+50.00 1017.90
428+50.00

EX LA-R/W

E-12 HW-12

6'L X 4'W X 18"TH ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC

HW-12
STA. 428+50.00, 128.90' LT
HW-2.1/2.2
15" (E) 998.77

133.44' LT
℄=997.94

15" TYPE B P-63

1018.25 428+41.24 1016.93
1018.19 428+41.24 1018.10
P.C. 428+41.24

15" TYPE B P-63

1018.86 428+00.00 1018.35
1018.80 428+00.00 1018.41
428+00.00

6'L X 4'W X 18"TH ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC

EX LA-R/W

E-46 HW-46

MATCHLINE BB

HW-46
STA. 427+40.06, 125.26' LT
HW-2.1/2.2
15" (E) 999.37

129.52' LT
℄=998.98

HR-9 ex. hw (by record)

D-46
STA 427+40.06, 77.78' LT
CB-3A, GRATE ELEV 1019.20
15" (W) 1014.87
6" UD (S) 1016.37

D-46 D-63 DR-9

BULKHEAD

MATCHLINE END SKEWED APPROACH SLAB

FP-9 15" rcp (by record)

P-46 51'-15" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21

PR-9 15" stm (by record)

MATCHLINE BB

1020.60 427+00.00 1019.20
1020.55 427+00.00 1019.09
427+00.00

DR-9
STA. 427+12.48, 1.45' RT
EX. CB, GRATE ELEV 1016.56
EX. 15" RCP W 1014.11

D-63
STA. 427+40.00, 3.17' LT
I-3-C1
GRATE LT
WINDOW LT ELEV 1019.32
WINDOW RT ELEV 1019.24
15" (N) 1013.91

ITEM 202 - PAVEMENT REMOVED (COMPOSITE)
ITEM 202 - PAVEMENT REMOVED (ASPHALT)

120 100 80 60 40 20 0 20 40 60 80 100 120

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		120	6
100	1		
		34	0
112	0		
129	0		
		184	0
		372	22
72	12		
		710	28

CALCULATED CJC
CHECKED PJF

CROSS SECTIONS - I.R. 77
STA. 427+00.00 TO STA. 428+50.00

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VARIOUS

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REVISIONS		
NO.	DATE	DESCRIPTION
6	04/26/21	REVISED CONDUIT, BORED OR JACKED

SEEDING	
END WIDTH	SQ. YDS.
25	128
21	128
29	139
26	153
	548

END AREA	
CUT	FILL
112	5
95	9
73	6
75	8

VOLUME	
CUT	FILL
194	10
192	13
156	14
137	13
679	50

CALCULATED CJC
CHECKED PJF

1020
1010
1000
990

wetlands

1015.77
434+00.00
1016.02

1015.56
434+00.00
1014.99

434+00.00

D-15
STA. 433+50.00, 3.17' RT
I-3-C1
GRATE RT
WINDOW ELEV LT 1014.96
WINDOW ELEV RT 1014.76
15" (S) 1009.43
6" UD (W) 1011.13
6" UD (E) 1010.93

D-15

4:1

1015.55
433+50.00
1015.24

1015.36
433+50.00
1014.40

433+50.00

12.5:1

P-15 15" TYPE B

1015.41
433+00.00
1015.27

1015.24
433+00.00
1013.70

433+00.00

D-14
STA. 432+50.00, 3.17' RT
I-3-C1
GRATE RT
WINDOW ELEV LT 1014.77
WINDOW ELEV RT 1014.62
15" (N) 1008.93
15" (S) 1008.93
15" (W) 1008.93
6" UD (N) 1010.94
6" UD (S) 1010.94
6" UD (E) 1010.79

D-14

HW-14
STA. 432+50.00, 115.52' LT
HW-2.1/2.2
15" (E) 999.13

MASONRY COLLAR PER DM-1.1

P-14 81'-15" TYPE B, BORED OR JACKED @ 1.00%

P-14A 38'-15" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21

HW-14

6'L X 4'W X 18"TH ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC

E-14

1015.36
432+50.00
1015.32

1015.21
432+50.00
1013.36

432+50.00

ITEM 202 - PAVEMENT REMOVED (COMPOSITE)

ITEM 202 - PAVEMENT REMOVED (ASPHALT)

120 100 80 60 40 20 0 20 40 60 80 100 120

CROSS SECTIONS - I.R. 77
STA. 432+50.00 TO STA. 434+00.00

SUM-77 / 277 / 224
VARIOUS

SEEDING	
END WIDTH	SQ. YDS.
	861
76	
	856
78	
[0] [25]	
[46] 939	
[31] 91	
[46]	2656

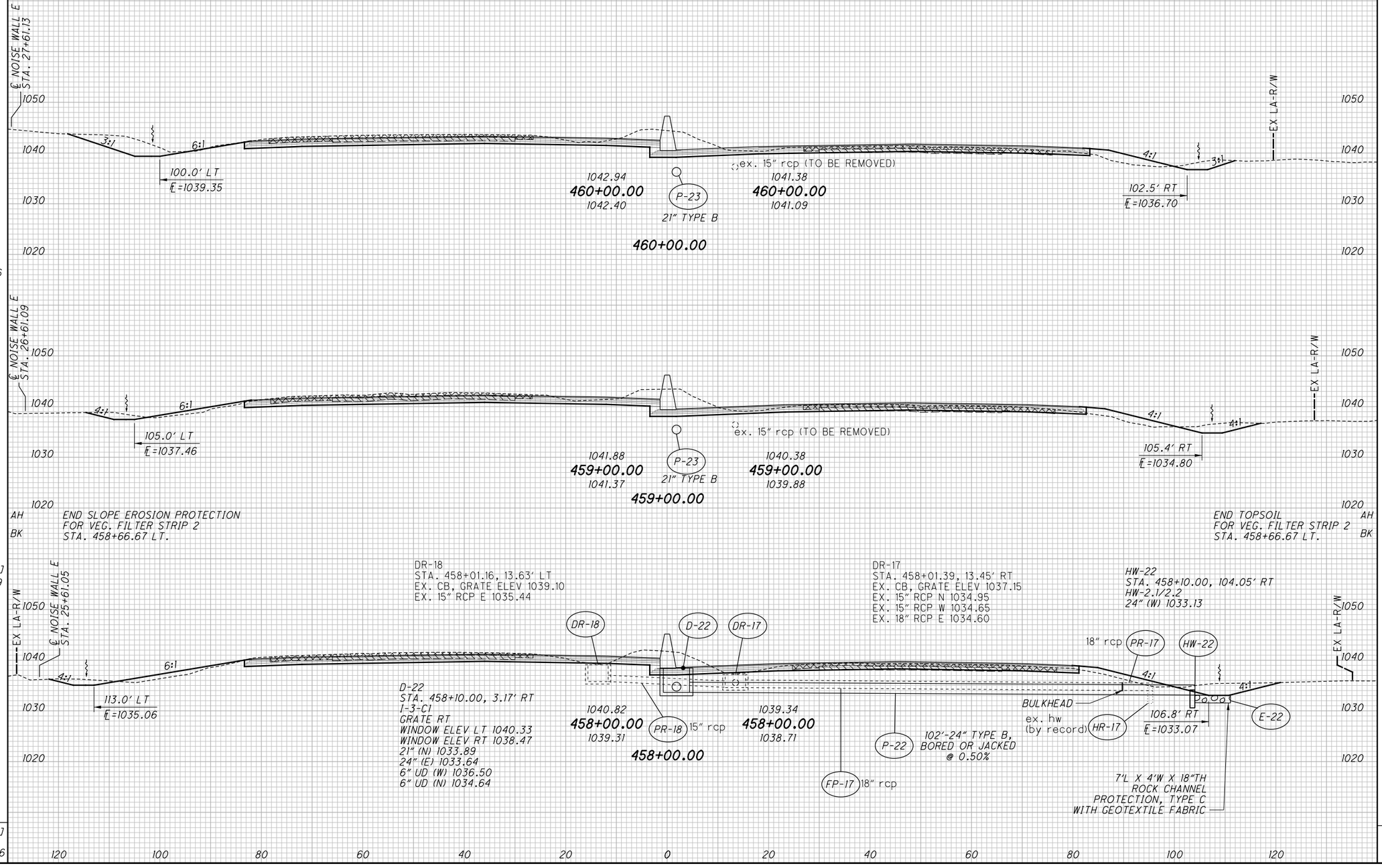
REVISIONS		
NO.	DATE	DESCRIPTION
6	04/26/21	REVISED CONDUIT, BORED OR JACKED

>#< ITEM 659 - TOPSOIL

[#] ITEM 670 - SLOPE EROSION PROTECTION

ITEM 202 - PAVEMENT REMOVED (COMPOSITE)

ITEM 202 - PAVEMENT REMOVED (ASPHALT)



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		856	106
211	29		
		720	120
178	36		
			>0<
			>8<
			>22<
		639	122
			>10<
167	30		
			>22<
		2215	348

CALCULATED CJC
CHECKED PJF

CROSS SECTIONS - I.R. 77
STA. 458+00.00 TO STA. 460+00.00

SUM-77 / 277 / 224
VARIOUS

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