STA. 22+00 BEGIN PROJECT STA. 18+55 **LOCATION MAP** LATITUDE: N 39°17'35" LONGITUDE: W 83°02'45" PORTION TO BE IMPROVED _____= INTERSTATE HIGHWAY-

FEDERAL ROUTES ______ STATE ROUTES _____

COUNTY & TOWNSHIP ROADS _______ OTHER ROADS ______

DESIGN YEAR ADT (2039) 2,700 DESIGN HOURLY VOLUME (2020) _____ 243 DIRECTIONAL DISTRIBUTION 50%

DESIGN SPEED _____ 55

LEGAL SPEED _____ 55

NHS PROJECT NO

ENGINEER'S SEAL:

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

ROS-772-10.60

HUNTINGTON TOWNSHIP ROSS COUNTY

INDEX OF SHEETS:

TITLE SHEET	1
TYPICAL SECTIONS	2
GENERAL NOTES	3
MAINTENANCE OF TRAFFIC	4, 5
GENERAL SUMMARY	6
SUBSUMMARY	7
PLAN AND PROFILE	8
CROSS SECTIONS	9, 10
DRIVEWAY DETAILS	11
CULVERT DETAILS	12, 13
RETAINING WALL	14 - 16
TRAFFIC CONTROL	17
SOIL PROFILES - LANDSLIDE	

FEDERAL PROJECT NUMBER

NON-FEDERAL

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

REPAIR PROJECT TO CORRECT LANDSLIDE DAMAGE TO THE HIGHWAY, BY MEANS OF DRILLED SHAFT RETAINING WALL ALONG DOWNSLOPE SIDE OF ROADWAY. INCLUDING 289 FT PAVEMENT REPAIR ALONG THE ROADWAY.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.34 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.25 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: N/A NOI NOT REQUIRED

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 REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DE-TOURS WILL BE PROVIDED AS INDICATED ON SHEET 5.

DESIGN EXCEPTIONS

RURAL MAJOR COLLECTOR

DESIGN FUNCTIONAL CLASSIFICATION:

DESIGN DESIGNATION

NONE

ADA DESIGN WAIVERS



PLAN PREPARED BY: **BURGESS & NIPLE** 525 VINE ST. STE. 1300 CINCINNATI, OHIO 45202

			STA	NDARD	CONSTRUCTION DRAWIN	GS	SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
	BP-3.1	1/17/20					800-2019 4/22/22	
SIGNED:							832 10/19/18	
DATE:	DM-1.1	7/17/20	MT-101.60	1/17/20				
ENGINEER'S SEAL:	DM-1.2	7/16/21	MT-101.90	7/17/20				
ENGINEER 3 SEAL.	DM-4.4	1/15/16						
			TC-41.20	10/18/13				
	HW-2.1	7/20/18	TC-41.30	10/18/13				
	HW-2.2	7/20/18	TC-42.20	10/18/13				
			TC-52.10	10/18/13				
	CB-2-3	7/16/21	TC-61.30	7/19/19				
			TC-65.10	1/17/14				
	MGS-1.1	7/16/21	TC-65.11	7/21/17				
	MGS-2.1	1/19/18						
	MGS-4.3	1/18/13						
SIGNED:			•					
DATE:			·					

DISTRICT DEPUTY DIRECTOR DIRECTOR, DEPARTMENT OF TRANSPORTATION

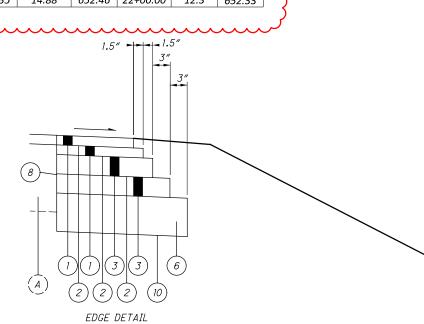
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DATE ____ APPROVED_ DATE _

PAVEMENT ELEVATION TABLE ELEV OFFEST LT CL ELEV STATION OFFEST RT ELEV 647.13 12.8 | 647.64 | 18+40.00 | 12.5 647.57 647.11 12.8 647.72 | 18+50.00 | 12.5 647.65 647.11 12.8 647.92 | 18+75.00 | 12.5 647.91 647.55 648.19 | 19+00.00 12.8 12.5 648.32 648.12 12.8 648.55 | 19+25.00 | 12.5 648.78 12.5 648.88 12.8 649.01 | 19+50.00 | 649.14 649.78 12.8 649.55 | 19+75.00 | 12.5 649.34 650.13 | 20+00.00 | 650.45 12.8 12.5 649.72 650.56 12.8 650.73 | 20+25.00 12.5 650.34 651.11 20+50.00 650.56 12.8 651.05 650.73 12.8 651.26 20+75.00 651.44 650.97 651.42 21+00.00 651.37 651.15 13.15 651.65 21+25.00 651.33 12.5 651.86 21+50.00 651.26 13.84 12.5 651.49 652.03 21+75.00 651.68 14.36 12.4 651.69 652.46 22+00.00 652.35 14.88 12.3 652.33

EXISTING PAVEMENT

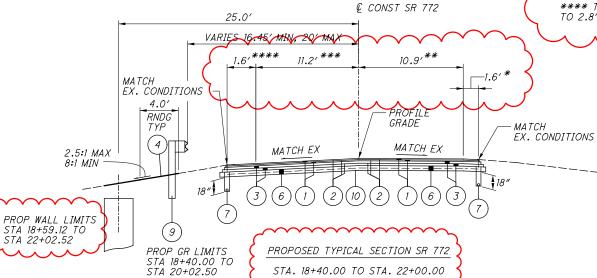


* TAPER PAVEMENT WIDTH FROM 10.9' AT 21+50 TO 10.3' AT 22+00

** TAPER SHOULDER WIDTH FROM 1.6' AT 21+50 TO 2.1' AT 22+00

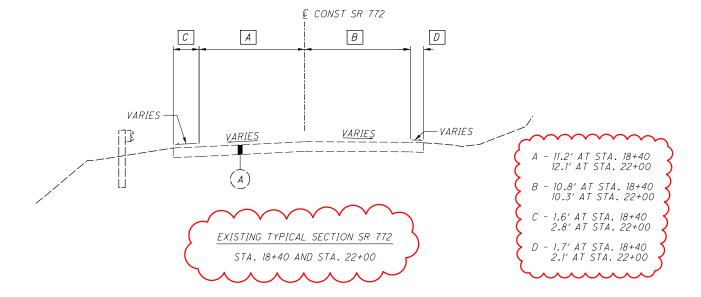
*** TAPER PAVEMENT WIDTH FROM 11.2' AT 21+00 TO 12.1' AT 22+00

**** TAPER SHOULDER WIDTH FROM 1.6' AT 21+00 TO 2.8' AT 22+00



STA 22+02.52

ROS-772-10.60



TYPICAL SECTIONS

SDC SCS 03/01/22

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ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

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.

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

AMERICAN ELECTRIC POWER (DISTRIBUTION) 850 TECH CENTER DRIVE GAHANNA, OHIO 43230 MR. CLARKE SAUNDERS 614-312-5807

HORIZON CHILLICOTHE TELEPHONE
P. O. BOX 480
CHILLICOTHE, OHIO 45601
MR. JIM MITCHELL
740-772-8264

CHARTER COMMUNICATIONS 32 ENTERPRISE DRIVE CHILLICOTHE, OHIO 45601 MR. JIM DEEDS 740-503-2861

ROSS COUNTY WATER COMPANY P.O. BOX 1690 CHILLICOTHE, OHIO 45601 MR. JUSTIN LANGOLF 740-774-4117

ITEM 202 - REMOVAL MISC.: PILING REMOVED

THERE IS EXISTING PILING DRIVEN IN THE DOWNHILL SLOPE.
THE CONTRACTOR SHALL REMOVE THE EXISTING PILING ONLY AS
NEEDED FOR THE CONSTRUCTION OF THE PROPOSED WALL.
ANY EXISTING PILING OUTSIDE OF THE EXISTING R/W SHALL BE
ABANDONED IN PLACE.

ALL MATERIALS AND LABOR NEEDED TO COMPLETE THE ABOVE WORK, INCLUDING REMOVAL OF ADJACENT GUARDRAIL LAGGING, IF NECESSARY, SHALL BE PAID FOR UNDER ITEM 202, REMOVAL MISC.: PILING REMOVED

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED FOR USE AS DIRECTED BY THE ENGINEER FOR REMOVAL MISC.: PILING REMOVED:

ITEM 202, REMOVAL MISC.: PILING REMOVED 20 EACH

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT
AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE,
REPRESENTATIVES OF THE STATE AND THE CONTRACTOR,
ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN
INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO
REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY
THE WORK. THE CONDITION OF THE EXISTING CONDUITS
AND THEIR APPURTENANCE SHALL BE DETERMINED FROM
FIELD OBSERVATIONS. RECORDS OF THE INSPECTION
SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND
MANHOLES CONSTRUCTED AS A PART OF THE PROJECT
SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN
CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY
THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

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

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.

SEEDING AND MULCHING

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

659, SEEDING AND MULCHING, CLASS 1 218 SQ. YD.
659, REPAIR SEEDING AND MULCHING 11 SQ. YD.
659, COMMERCIAL FERTILIZER 0.03 TON
659, LIME 0.05 ACRES
659, WATER 1 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ITEM 201 - 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.

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.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2/6 OF THE RIGHT OF WAY PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

PROJECT CONTROL

POSITIONING METHOD: GPS/VRS/CONVENTIONAL MONUMENT TYPE: B

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88 GEOID: 12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83(2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFROMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE SOUTH
COMBINED SCALE FACTOR: 0.999911568
PROJECT ADJUSTMENT FACTOR: 1.00008844
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.

ENDANGERED BAT AND 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 PLANY, WITH A TRUNK 3 INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING
THE INSTALLATION OF, AND THE GRADING AROUND THE
FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY
FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE
GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD
BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER
TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES
FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

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

BENCHMARKS & CONTROL COORDINATES

NAME	COORD	INATES	STATION	OFFSET	ELEVATION	DESCRIPTION
	NORTHING	EASTING				
SV7	471678.550	1813588.470	15+49.14	17.47' LT	641.86	IRON PIN
SV5	471525.080	1814120.470	21+06.24	17.95' LT	650.68	IRON PIN
SV4	471379.920	1814517.290	25+26.56	16.25' LT	651.78	IRON PIN

DESIGN AGENCY



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REVIEWER
SCS 03/01/22
PROJECT ID

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P.03 TOTAL

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DESCRIPTION SHEET ITEM UNIT 10 16 17 01/STR/O EXT TOTAL NO. ····· ROADWAY LS LS 201 11000 LS CLEARING AND GRUBBING 1,118 202 23000 1,118 PAVEMENT REMOVED 1.118 SY 115 115 202 35100 115 FT PIPE REMOVED, 24" AND UNDER 225 225 202 38000 225 FT GUARDRAIL REMOVED 1 202 42010 EACH ANCHOR ASSEMBLY REMOVED, TYPE E 202 58100 EACH CATCH BASIN REMOVED 20 20 202 98200 20 FT REMOVAL MISC.:PILING REMOVED 14 **EXCAVATION** 51 51 203 10000 51 CY 34 34 203 20000 34 CY EMBANKMENT 1.255 1,255 204 10000 1,255 SY SUBGRADE COMPACTION 213 213 606 15050 213 FT GUARDRAIL, TYPE MGS ANCHOR ASSEMBLY, MGS TYPE E, NCHRP 350/MASH 2016 1 606 26150 EACH EROSION CONTROL 601 21050 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT 3 601 32104 ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC CY 218 218 659 00500 218 SY SEEDING AND MULCHING, CLASS 1 11 11 659 14000 11 SY REPAIR SEEDING AND MULCHING 0.03 0.03 659 20000 0.03 TON COMMERCIAL FERTILIZER 0.05 0.05 659 31000 0.05 ACRE LIME 659 35000 MGAL WATER 5,000 832 30000 5,000 EACH **EROSION CONTROL** DRAINAGE 602 20000 CONCRETE MASONRY 736 736 605 14000 736 FT 6" BASE PIPE UNDERDRAINS 75 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS 75 75 611 00510 FT 73 73 611 07400 73 FT 18" CONDUIT, TYPE B, 706.02, 707.12 ALUMINUM COATED, 707.13, (0.109) GALVANIZED, 707.33 27 611 10400 27 FT 24" CONDUIT, TYPE B, 707.33 27 EACH CATCH BASIN, NO. 2-3 611 98510 1 611 99710 PRECAST REINFORCED CONCRETE OUTLET FULL DEPTH PAVEMENT SAWING 52 FT 52 52 252 01500 176 176 301 56000 176 CY ASPHALT CONCRETE BASE, PG64-22, (449) 214 AGGREGATE BASE 214 304 20000 214 CY 236 236 407 10000 236 GAL TACK COAT 90 441 70000 90 CY ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 90 TRAFFIC CONTROL 621 00100 EACH RPM 621 54000 EACH RAISED PAVEMENT MARKER REMOVED BARRIER REFLECTOR, TYPE 3 BIDIRECTIONAL 626 00112 EACH 18 18 630 03100 18 FT GROUND MOUNTED SUPPORT, NO. 3 POST 2 630 85100 EACH REMOVAL OF GROUND MOUNTED SIGN AND REERECTION \sim 630 08600 EACH SIGN POST REFLECTOR REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL 630 86002 EACH 0.14 0.14 642 00104 0.14 MILE EDGE LINE, 6", TYPE 1 0.07 0.07 642 0.07 MILE CENTER LINE, TYPE 1 00300 RETAINING WALLS 2,182 2,182 507 00400 2,182 FT STEEL PILES, MISC.:TYPE 1 STEEL BEAM, FURNISHED 14 1,499 1.499 524 94603 1.499 FT DRILLED SHAFTS, 30" DIAMETER, ABOVE BEDROCK, AS PER PLAN 14 720 720 524 94605 720 FT DRILLED SHAFTS, 30" DIAMETER INTO BEDROCK, AS PER PLAN 14 1 328 1 328 524 95000 1 328 FT DRILLED SHAFTS, MISC.: PLUG PILE, 30" DIAMETER, UNREINFORCED 14 15 15 524 95000 15 FT DRILLED SHAFTS, MISC.: PLUG PILE, 36" DIAMETER, UNREINFORCED 14 INCIDENTALS LS 614 LS MAINTAINING TRAFFIC 11000 LS 623 10000 LS CONSTRUCTION LAYOUT STAKES AND SURVEYING LS 624 10000 LS MOBILIZATION

PART.

ITEM

GRAND

SHEET NUM.



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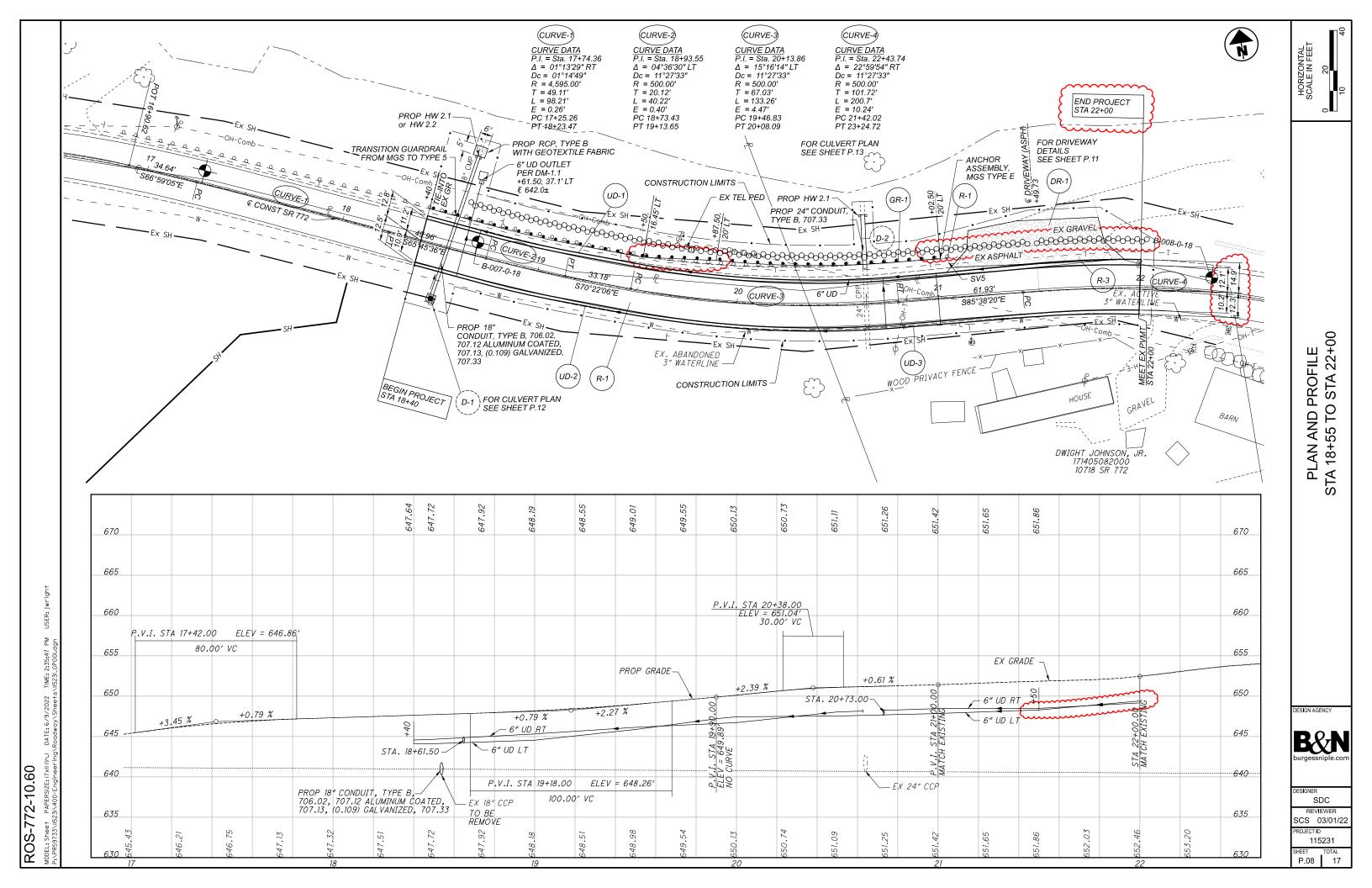
									204	252		301	304	407	441	441		
STAT	ΓΙΟΝ RA	NGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	SUBGRADE COMPACTION	FULL DEPTH PAVEMENT SAWING		ASPHALT CONCRETE BASE, PG64- 22	AGGREGATE BASE	TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), pg64-22 ML (1-1/2")	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG 64-22 DR (2")		
					FT	FT	SQ YD	SQ YD	SY	FT		CY	CY	GAL	CY	CY		
	TO																	
18+40.00		21+00.00		LT/RT	260.00	25.30	730.89			25.30					30.45			
						25.55	738.11							55.36	30.75			
						25.80	745.33					62.11		55.90				
						26.30	759.78					63.31		56.98				
						26.80	774.22		774.22				129.04					
21+00.00		22+00.00		LT/RT	100.00	26.25	291.61			26.25					12.15			
						26.50	294.39							22.08	12.27			
						26.75	297.17					24.76		22.29				
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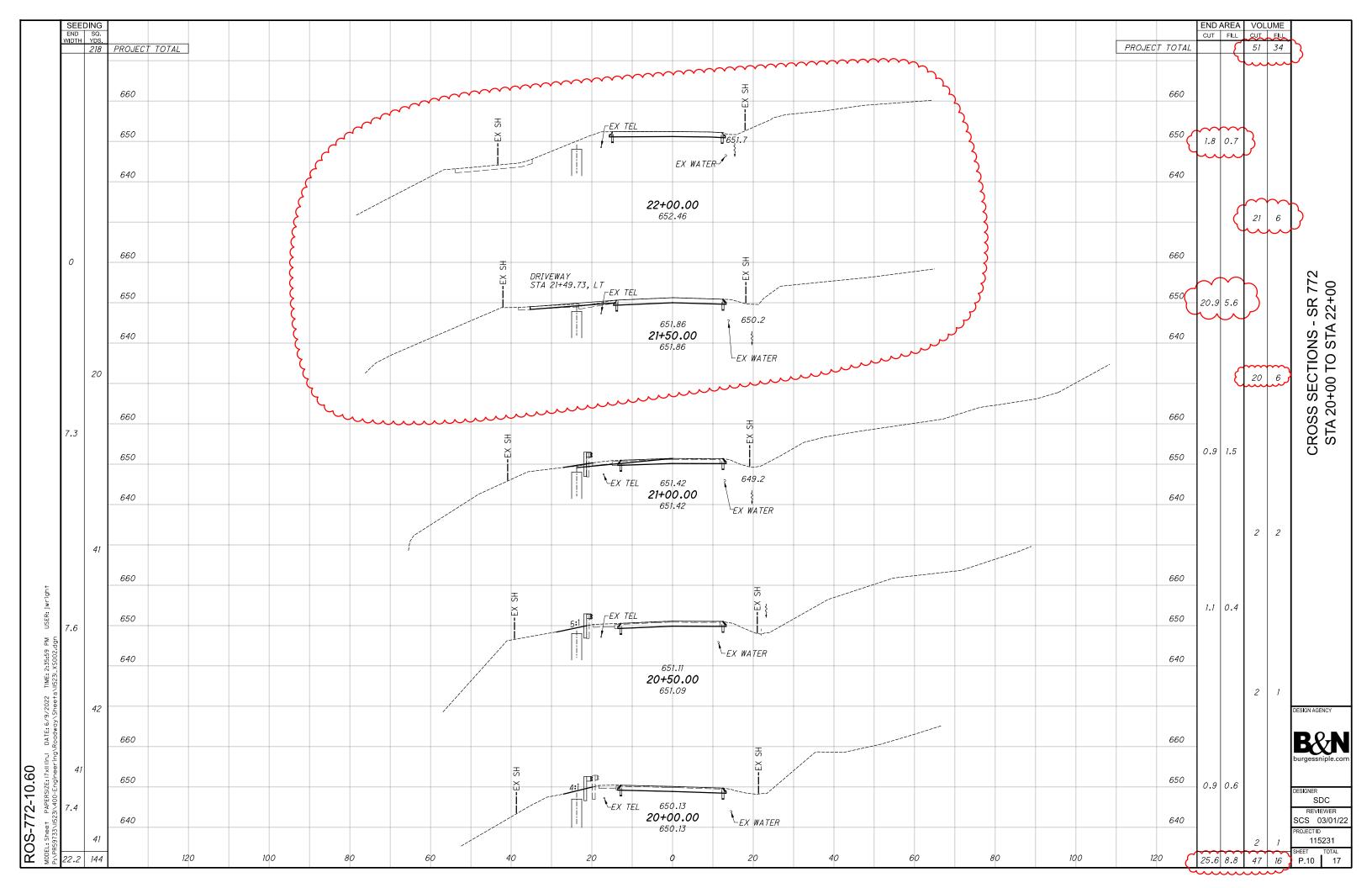
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REF NO.	SHEET NO.		STATION TO	STATION		PIPE REMOVED, 24" AND UNDER	PAVEMENT REMOVED	GUARDRAIL REMOVED	ANCHOR ASSEMBLY REMOVED, TYPE E	CATCH BASIN REMOVED	TIED CONCRETE BLOCK MAT, TYPE	CONCRETE MASONRY	6" BASE PIPE UNDERDRAINS	GUARDRAIL, TYPE MGS	ANCHOR ASSEMBLY, MGS TYPE E	ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	18" CONDUIT, TYPE B, 706.02, 707.12 ALUMINUM COATED, 707.13, (0.109) GALVANIZED, 707.33	24" CONDUIT, TYPE B, 707.33	PRECAST REINFORCED CONCRETE OUTLET	CATCH BASIN, NO. 2-3	
						FT	SY	FT	EACH	EACH	SY	CY	FT	FT	EACH	CY	FT	FT	FT	EACH	EACH] .
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R-2	8	18+40.00		22+00.00			1044.07															
R-3	8	21+09.84	LT	21+86.36	LT		73.38															
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GR-1	8	18+40.00	LT	21+02.50	LT									212.50	1							_
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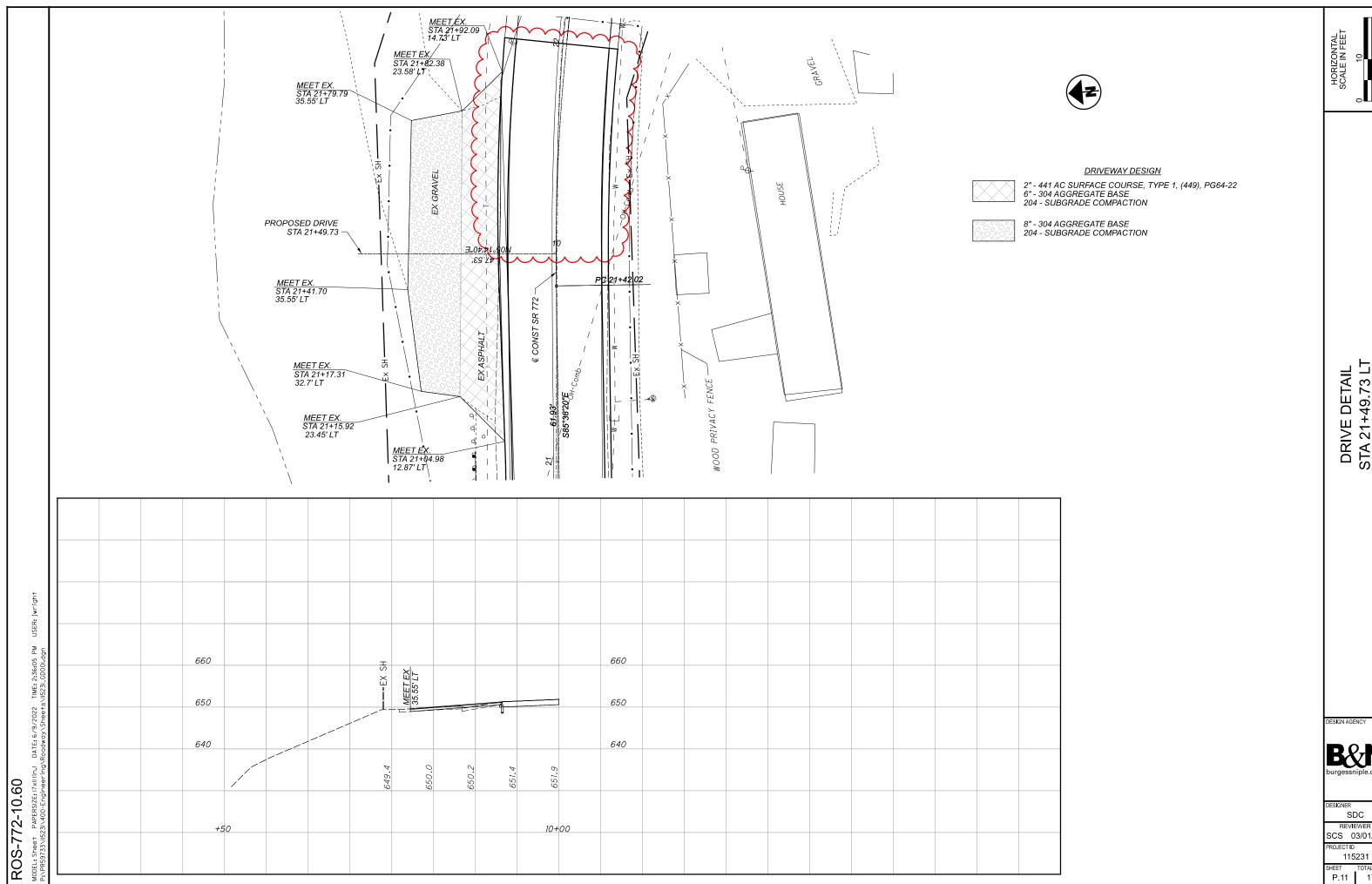


SDC REVIEWER SCS 03/01/22 PROJECT ID 115231

SHEET TOTAL P.07 17







DRIVE DETAIL STA 21+49.73 LT



SDC SCS 03/01/22

SHEET TOTAL P.11 17

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FT FT FT FT FT FT FT FT							524	524	524		
115	SHAFT NO.	STATION	OFFSET LEFT	TOP OF DRILLED SHAFT ELEVATION	APPROX. BOTTOM OF DRILLED SHAFT ELEVATION	TOTAL DRILLED SHAFT LENGTH	LENGTH BELOW	LENGTH ABOVE		BEAM SIZE	APPROX. LENGTH OF BEAM
116			FT	FT	FT	FT	FT	FT		TYPE	FT
116											
117	115	21+39.05	25.00	648.50	615.08	33.42	10	23.42		1	32.92
118	116	21+41.42	23.75	648.50	628.50	20			20		
119	117	21+43.71	25.00	648.50	615.06	33.44	10	23.44		1	32.94
120	118	21+45.97	23.75	648.50	628.50	20			20		
121	119	21+48.24	25.00	648.50	615.04	33.46	10	23.46		1	32.96
122	120	21+50.50	23.75	648.50	628.50	20			20		
123	121	21+52.76	25.00	648.50	615.03	33.47	10	23.47		1	32.97
124	122	21+55.02	23.75	648.50	628.50	20			20		
125	123	21+57.28	25.00	648.50	615.01	33.49	10	23.49		1	32.99
126	124	21+59.55	23.75	648.50	628.50	20			20		
127	125	21+61.81	25.00	648.50	614.99	33.51	10	23.51		1	33.01
128 21+68.59 23.75 648.50 628.50 20 20 20 33.05 129 21+70.86 25.00 648.50 614.95 33.55 10 23.55 1 33.05 130 21+73.12 23.75 648.50 628.50 20 20 20 131 21+75.38 25.00 648.50 628.50 20 20 20 132 21+77.64 23.75 648.50 628.50 20 20 20 133 21+79.90 25.00 648.50 628.50 20 20 20 134 21+82.17 23.75 648.50 628.50 20 20 20 135 21+84.43 25.00 648.50 628.50 20 20 20 137 21+88.95 25.00 648.50 628.50 20 20 20 139 21+91.21 23.75 648.50 628.50 20 20 20 139 21+93.47 25.00 648.50 614.88 33.64 10	126	21+64.07		648.50	628.50	20			20		
129 21+70.86 25.00 648.50 614.95 33.55 10 23.55 1 33.05 130 21+73.12 23.75 648.50 628.50 20 20 20 33.07 131 21+75.38 25.00 648.50 614.93 33.57 10 23.57 1 33.07 132 21+77.64 23.75 648.50 628.50 20 20 20 133 21+79.90 25.00 648.50 614.91 33.59 10 23.59 1 33.09 134 21+82.17 23.75 648.50 628.50 20 20 20 20 135 21+84.43 25.00 648.50 614.89 33.61 10 23.61 1 33.11 136 21+86.69 23.75 648.50 628.50 20 20 20 137 21+89.95 25.00 648.50 614.88 33.62 10 23.62 1 33.12 138 21+91.21 23.75 648.50 628.50 20 2	127	21+66.33	25.00	648.50	614.97	33.53	10	23.53		1	33.03
130	128	21+68.59	23.75	648.50	628.50	20			20		
131 21+75.38 25.00 648.50 614.93 33.57 10 23.57 1 33.07 132 21+77.64 23.75 648.50 628.50 20 20 20 133 21+79.90 25.00 648.50 614.91 33.59 10 23.59 1 33.09 134 21+82.17 23.75 648.50 628.50 20 20 20 20 135 21+84.43 25.00 648.50 614.89 33.61 10 23.61 1 33.11 136 21+86.69 23.75 648.50 628.50 20 20 20 137 21+88.95 25.00 648.50 614.88 33.62 10 23.62 1 33.12 138 21+91.21 23.75 648.50 628.50 20 20 20 139 21+93.47 25.00 648.50 614.86 33.64 10 23.64 1 33.14 140 21+95.74 23.75 648.50 628.50 20 20 20 </td <td>129</td> <td>21+70.86</td> <td>25.00</td> <td>648.50</td> <td>614.95</td> <td>33.55</td> <td>10</td> <td>23.55</td> <td></td> <td>1</td> <td>33.05</td>	129	21+70.86	25.00	648.50	614.95	33.55	10	23.55		1	33.05
132 21+77.64 23.75 648.50 628.50 20 20 33.59 10 23.59 1 33.09 133 21+79.90 25.00 648.50 628.50 20 20 20 33.09 134 21+82.17 23.75 648.50 628.50 20 20 20 33.11 135 21+84.43 25.00 648.50 628.50 20 20 20 20 137 21+88.95 25.00 648.50 628.50 20 20 20 33.12 138 21+91.21 23.75 648.50 628.50 20 20 20 33.12 139 21+93.47 25.00 648.50 614.86 33.64 10 23.64 1 33.14 140 21+95.74 23.75 648.50 628.50 20 20 20 33.14 141 21+96.00 25.00 648.50 614.84 33.64 10 23.64 1 33.16 142 22+00.26 23.75 648.50 628.50 <td>130</td> <td>21+73.12</td> <td>23.75</td> <td>648.50</td> <td>628.50</td> <td>20</td> <td></td> <td></td> <td>20</td> <td></td> <td></td>	130	21+73.12	23.75	648.50	628.50	20			20		
133 21+79.90 25.00 648.50 614.91 33.59 10 23.59 1 33.09 134 21+82.17 23.75 648.50 628.50 20 20 20 135 21+84.43 25.00 648.50 614.89 33.61 10 23.61 1 33.11 136 21+86.69 23.75 648.50 628.50 20 20 20 137 21+88.95 25.00 648.50 614.88 33.62 10 23.62 1 33.12 138 21+91.21 23.75 648.50 628.50 20 20 20 20 139 21+93.47 25.00 648.50 614.86 33.64 10 23.64 1 33.14 140 21+95.74 23.75 648.50 628.50 20 20 20 141 21+98.00 25.00 648.50 614.84 33.66 10 23.66 1 33.16 142 22+00.26 23.75 648.50 628.50 20 20 20 </td <td>131</td> <td>21+75.38</td> <td>25.00</td> <td>648.50</td> <td>614.93</td> <td>33.57</td> <td>10</td> <td>23.57</td> <td></td> <td>1</td> <td>33.07</td>	131	21+75.38	25.00	648.50	614.93	33.57	10	23.57		1	33.07
134 21+82.17 23.75 648.50 628.50 20 20 20 33.11 33.12 33.12 33.12 33.12 33.12 33.12 33.12 33.12 33.12 33.12 33.14 33.14 33.14 33.14 33.14 33.14 33.14 33.14 33.14 33.14 33.16 33.16 33.16 33.16 33.16 33.16 33.16 33.16 33.16 33.16 33.16 33.16 33.16 33.16 33.16	132	21+77.64	23.75	648.50	628.50	20			20		
135	133	21+79.90	25.00	648.50	614.91		10	23.59		1	33.09
136 21+86.69 23.75 648.50 628.50 20 20 33.12 137 21+88.95 25.00 648.50 614.88 33.62 10 23.62 1 33.12 138 21+91.21 23.75 648.50 628.50 20 20 20 139 21+93.47 25.00 648.50 614.86 33.64 10 23.64 1 33.14 140 21+95.74 23.75 648.50 628.50 20 20 20 20 141 21+98.00 25.00 648.50 614.84 33.66 10 23.66 1 33.16 142 22+00.26 23.75 648.50 628.50 20 20 20 143 22+02.52 25.00 648.50 614.82 33.68 10 23.68 1 33.18 SUB TOTAL 150 354 280 280	134	21+82.17	23.75	648.50	628.50	20			20		
137 21+88.95 25.00 648.50 614.88 33.62 10 23.62 1 33.12 138 21+91.21 23.75 648.50 628.50 20 20 20 139 21+93.47 25.00 648.50 614.86 33.64 10 23.64 1 33.14 140 21+95.74 23.75 648.50 628.50 20 20 20 20 141 21+98.00 25.00 648.50 614.84 33.66 10 23.66 1 33.16 142 22+00.26 23.75 648.50 628.50 20 20 20 143 22+02.52 25.00 648.50 614.82 33.68 10 23.68 1 33.18 SUB TOTAL GRAND TOTAL 720 1499 1343 1495.74				648.50			10	23.61		1	33.11
138 21+91.21 23.75 648.50 628.50 20 20 20 33.14 21+93.47 25.00 648.50 614.86 33.64 10 23.64 1 33.14 140 21+95.74 23.75 648.50 628.50 20									20		
139							10	23.62		1	33.12
140 21+95.74 23.75 648.50 628.50 20 20 33.16 141 21+98.00 25.00 648.50 614.84 33.66 10 23.66 1 33.16 142 22+00.26 23.75 648.50 628.50 20 20 20 143 22+02.52 25.00 648.50 614.82 33.68 10 23.68 1 33.18 SUB TOTAL 150 354 280 GRAND TOTAL 720 1499 1343 TYPE 1 495.74									20		
141 21+98.00 25.00 648.50 614.84 33.66 10 23.66 1 33.16 142 22+00.26 23.75 648.50 628.50 20 20 20 143 22+02.52 25.00 648.50 614.82 33.68 10 23.68 1 33.18 SUB TOTAL 150 354 280 GRAND TOTAL 720 1499 1343 TYPE 1 495.74							10	23.64		1	33.14
142 22+00.26 23.75 648.50 628.50 20 20 143 22+02.52 25.00 648.50 614.82 33.68 10 23.68 1 33.18 SUB TOTAL 150 354 280 GRAND TOTAL 720 1499 1343 TYPE 1 495.74									20		
143							10	23.66		1	33.16
SUB TOTAL 150 354 280 GRAND TOTAL 720 1499 1343 TYPE 1 495.74									20		
GRAND TOTAL 720 1499 1343 TYPE 1 495.74	143	22+02.52	25.00	648.50	614.82	33.68	10	23.68		1	33.18
GRAND TOTAL 720 1499 1343 TYPE 1 495.74											
TYPE 1 495.74			SUB TOTAL				150	354	280		
TYPE 1 495.74											
 		G	RAND TOTA	L			720	1499	1343		
 											
SUB TOTALS FOR EACH BEAM TYPE		TYPE 1	495.74								
SUB TOTALS FOR EAUTI DEAW TIPE											

	ALT. 1	ALT. 2	ALT. 3	ALT. 4	GRAND TOTAL (FT.)
TYPE 1 BEAM SIZE	W18x143	W18x158	HP16x162	HP16x183	2181.69



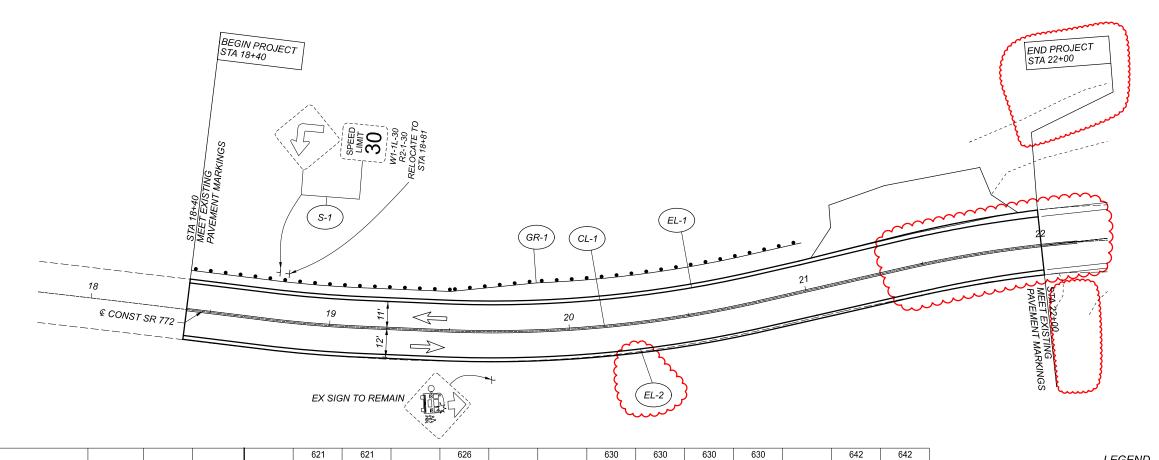
MAB

REVIEWER
SJA 10/18/21

PROJECT ID 115231

SHEET TOTAL P.16 17

SIGNING AND PAVEMENT MARKING PLAN STA 18+55 TO STA 21+50



GROUND MOUNTED SL 3 POST

FT

18

18

EACH

REMOVAL OF GROUND MOUNTED SIGN AND REERECTION

EACH

REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL

EACH

EDGE LINE, 6", TYPE 1

0.068

0.136 0.071

CENTER LINE, TYPE 1

0.071

MILE MILE

BARRIER REFLECTOR, TYPE 3 BIDIRECTIONAL (POST MOUNTED)

EACH

RPM (YELLOW/YELLOW)

EACH

SIZE

SIDE

CL

LT RT LT

CODE

R2-1-30 24"x30" W1-1L-30 30"x30"

RAISED PAVEMENT M REMOVED

EACH

<u>LEGEND</u>

(CL-#) CENTER LINE (DOUBLE YELLOW SOLID)

(EL-#) EDGE LINE



SDC REVIEWER SCS 03/01/22 115231 SHEET TOTAL P.17

ROS-772-10.60

USER: jwright

STATION TO STATION

TO

22+00.00

22+00.00

22+00.00 21+00.81

18+81.00

TOTALS CARRIED TO GENERAL SUMMARY

18+40.00

18+40.00

18+40.00

18+40.00

18+77.00

CL-1

EL-1 EL-2

S-1