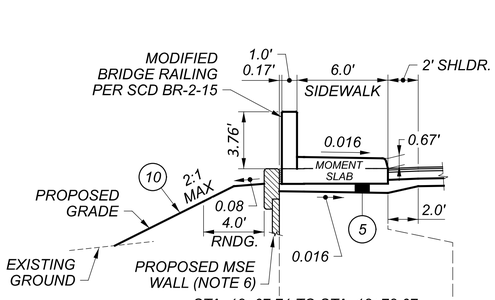
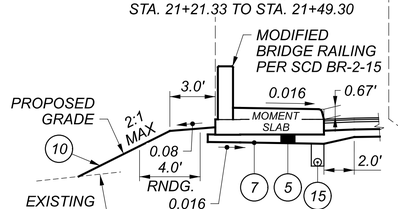
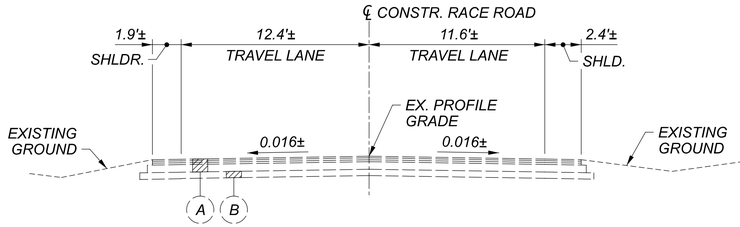
TYPICAL SECTIONS



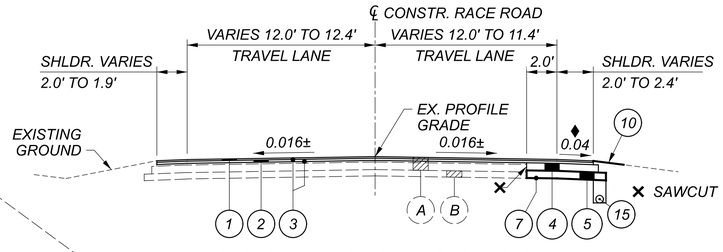
STA. 18+67.71 TO STA. 18+78.67
STA. 21+21.33 TO STA. 21+49.30



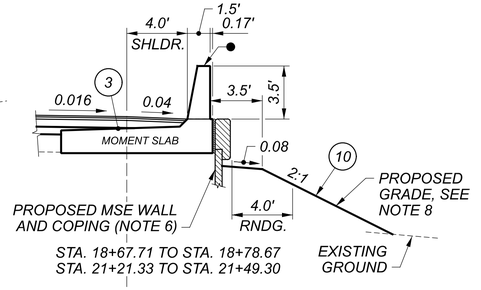
STA. 18+52.71 TO STA. 18+67.71
STA. 21+49.29 TO STA. 21+64.29



ADJOINING SECTION - RACE ROAD
STA. 23+50.86

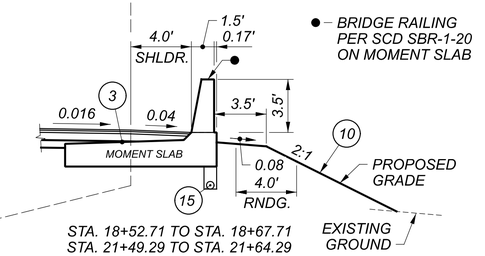


RESURFACING SECTION - RACE ROAD
STA. 23+30.00 TO STA. 23+50.86

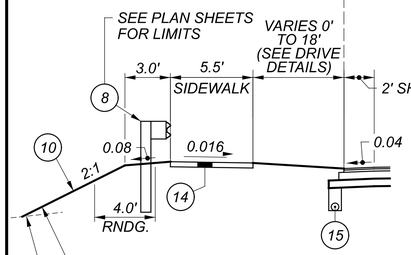


STA. 18+67.71 TO STA. 18+78.67
STA. 21+21.33 TO STA. 21+49.30

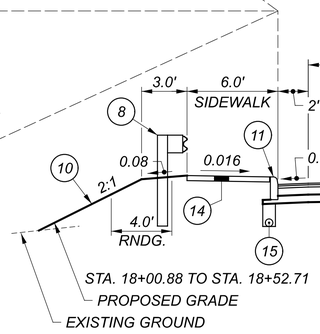
● – BRIDGE RAILING PER SCD SBR-1-20 ON MOMENT SLAB



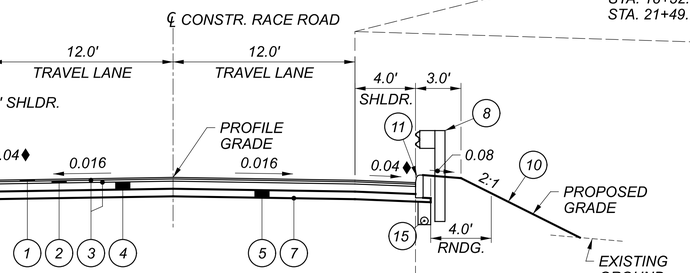
STA. 18+52.71 TO STA. 18+67.71
STA. 21+49.29 TO STA. 21+64.29



STA. 21+86.43 TO STA. 22+40.96

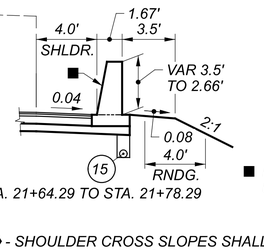


STA. 18+00.88 TO STA. 18+52.71



NORMAL SECTION - RACE ROAD
STA. 18+00.88 TO STA. 18+78.67
STA. 21+21.33 TO STA. 23+30.00

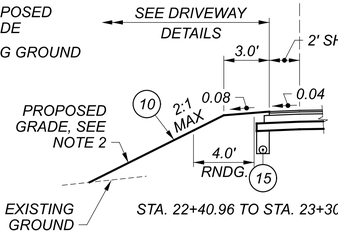
STA. 18+00.88 TO STA. 18+52.71



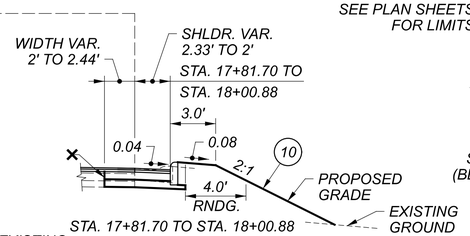
STA. 21+64.29 TO STA. 21+78.29

■ ITEM 622 - CONCRETE BARRIER END SECTION, SEE SCD RM-4.6

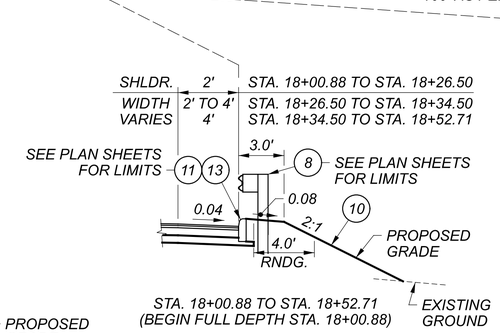
♦ - SHOULDER CROSS SLOPES SHALL TRANSISTION TO MATCH THE APPROACH SLAB CROSS SLOPE WITHIN 100' AS PER LD1, 301.2.4.



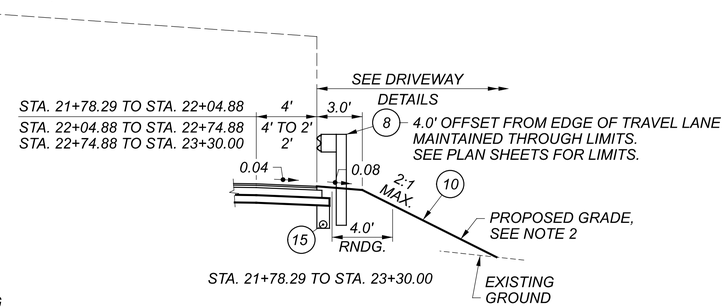
STA. 22+40.96 TO STA. 23+30.00



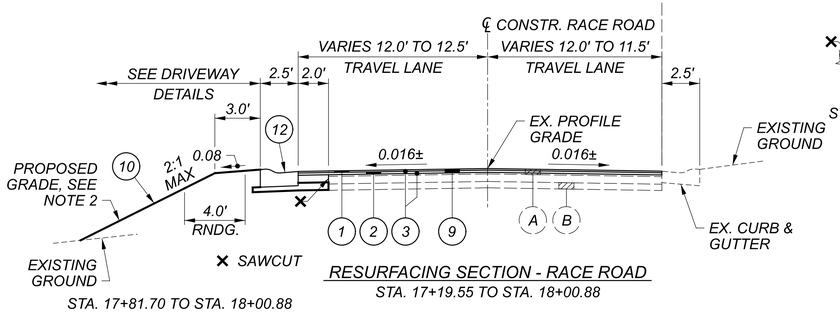
STA. 17+81.70 TO STA. 18+00.88



STA. 18+00.88 TO STA. 18+52.71
(BEGIN FULL DEPTH STA. 18+00.88)

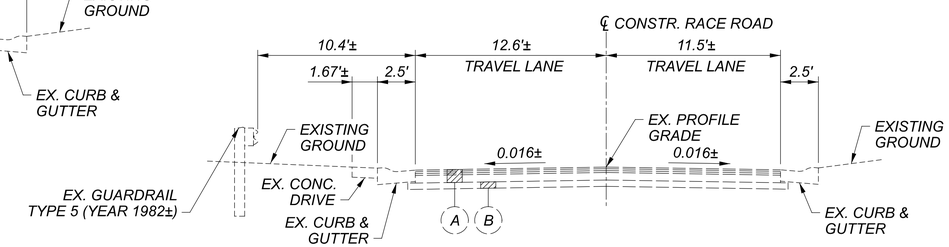


STA. 21+78.29 TO STA. 23+30.00



STA. 17+81.70 TO STA. 18+00.88

RESURFACING SECTION - RACE ROAD
STA. 17+19.55 TO STA. 18+00.88



ADJOINING SECTION - RACE ROAD
STA. 17+19.55

LEGEND

1. ITEM 442 - 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE B, 12.5MM (448), PG70-22
2. ITEM 441 - 1½" ASPHALT CONCRETE INTERMEDIATE COURSE,TYPE 1, PG 64-22
3. ITEM 407 - TACK COAT
4. ITEM 301 - 9" ASPHALT CONCRETE BASE, PG64-22
5. ITEM 304 - 6" AGGREGATE BASE
6. ITEM 526 - REINFORCED CONCRETE APPROACH SLAB (T=17")
7. ITEM 204 - SUBGRADE COMPACTION
8. ITEM 606 - GUARDRAIL, TYPE MGS
9. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (3" DEPTH)
10. ITEM 659 - SEEDING AND MULCHING
11. ITEM 609 - CURB, TYPE 6 (SEE NOTE 7)
12. ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 3
13. ITEM 609 - CURB TYPE 4-C, AS PER PLAN
14. ITEM 608 - 5" CONCRETE WALK
15. ITEM 605 - 6" BASE PIPE UNDERDRAIN AS PER SCD DM-1.2 (NOTE 10)

A. EXISTING 10¼"± ASPHALT CONCRETE

B. EXISTING 5"± AGGREGATE BASE

NOTES

1. FOR FURTHER INFORMATION ON CURBS, SEE SCD BP-5.1.
2. FOR SIDE SLOPE DETAILS, SEE CROSS SECTIONS, SHEETS P.024 - P.032.
3. ALL STATIONING SHOWN RELATIVE TO THE EXISTING CENTERLINE ALIGNMENTS, UNLESS OTHERWISE NOTED.
4. FOR PAVEMENT STEP DETAILS, SEE SHEET P.004.
5. SAW CUTS SHALL BE TO A SOUND PAVEMENT EDGE AS PER CMS 255. SEE SHEETS P.022 - P.023 FOR DETAILS.
6. FOR FURTHER MSE WALL AND MOMENT SLAB INFORMATION, SEE SHEETS P.051 - P.053.
7. CURB HEIGHT TRANSITIONS OVER 6 FEET FROM 6" TO 8" TO MATCH WALK HEIGHT ON APPROACH SLAB.
8. FOR FURTHER GRADING INFORMATION AT MSE WALLS, SEE SHEETS P.051 - P.053.
9. FOR MOMENT SLAB DETAILS, SEE SHEETS P.072 - P.076.
10. UNDERDRAIN SHALL ONLY BE PLACED ON NORTH SIDE OF BRIDGE DECK, FROM STA. 21+54.44 LT/STA. 21+47.05 RT TO STA. 23+30.00 LT/STA. 23+51.00 RT.

DESIGN AGENCY: fishbeck

DESIGNER: JAL

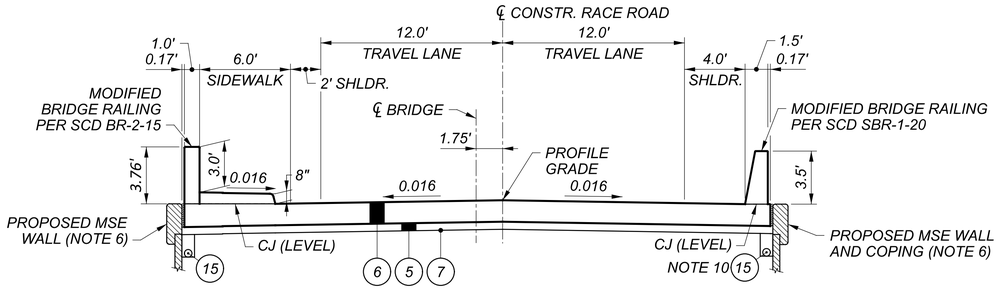
REVIEWER: JAH 05/01/24

PROJECT ID: 110563

SHEET: P.003 TOTAL: 103

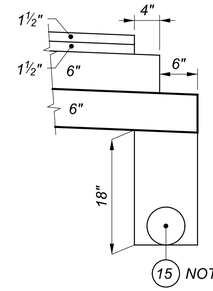
HAM-74-13.35

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 7/16/2024 TIME: 1:42:26 PM USER: avega
Z:\2022\220827\CAD\ODOT\110563\400-Engineering\Roadway\Sheets\110563_GY001.dgn



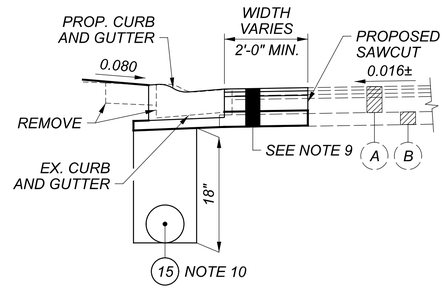
NORTH/SOUTH APPROACH SLAB SECTION - RACE ROAD

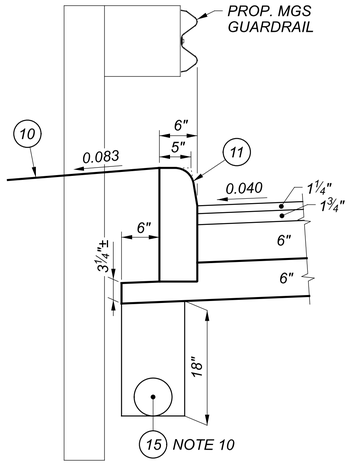
STA. 18+78.67 TO STA. 19+08.67
STA. 20+91.33 TO STA. 21+21.33



PAVEMENT STEP DETAIL - SHOULDER

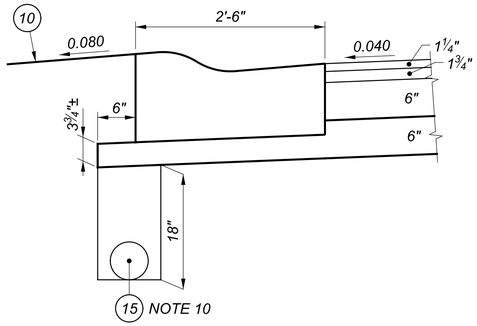
NOT TO SCALE





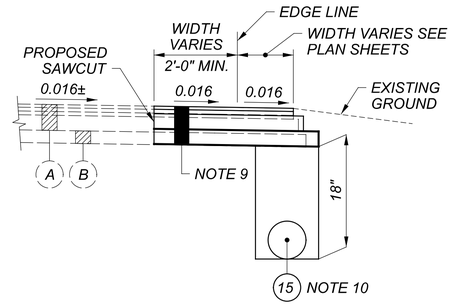
DETAIL 1 - CURB, TYPE 6

NOT TO SCALE
SEE NOTE 2



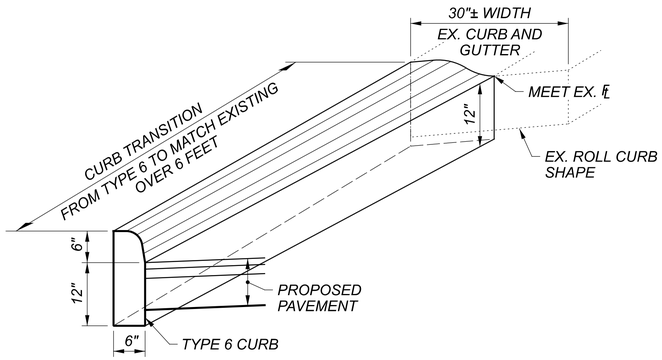
DETAIL 2 - COMBINATION CURB AND GUTTER, TYPE 3

NOT TO SCALE
SEE NOTE 2



PAVEMENT EDGE SAWCUT DETAILS

NOT TO SCALE



TYPE 6 CURB TO MEET EXISTING ROLLED CURB TRANSITION DETAIL

NOT TO SCALE

NOTES

1. FOR FURTHER INFORMATION ON CURBS, SEE SCD BP-5.1.
2. FOR SIDE SLOPE DETAILS, SEE CROSS SECTIONS, SHEETS P.024 - P.032.
3. ALL STATIONING SHOWN RELATIVE TO THE EXISTING CENTERLINE ALIGNMENTS, UNLESS OTHERWISE NOTED.
4. FOR LEGEND, SEE SHEET P.003.
5. SAW CUTS SHALL BE TO A SOUND PAVEMENT EDGE AS PER CMS 255. SEE SHEETS P.022 - P.023 FOR DETAILS.
6. FOR FURTHER MSE WALL AND MOMENT SLAB INFORMATION, SEE SHEETS P.051 - P.053.
7. CURB HEIGHT TRANSITIONS OVER 6 FEET FROM 6" TO 8" TO MATCH WALK HEIGHT ON APPROACH SLAB.
8. FOR FURTHER GRADING INFORMATION AT MSE WALLS, SEE SHEETS P.051 - P.053.
9. FOR MOMENT SLAB DETAILS, SEE SHEETS P.072 - P.076.
10. UNDERDRAIN SHALL ONLY BE PLACED ON NORTH SIDE OF BRIDGE DECK, FROM STA. 21+54.44 LT/STA. 21+47.05 RT TO STA. 23+30.00 LT/STA. 23+51.00 RT.

TYPICAL SECTIONS

HAM-74-13.35

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 7/16/2024 TIME: 1:42:27 PM USER: avega
Z:\2022\220827\CAD\ODOT\110563\400-Engineering\Roadway\Sheets\110563_GY002.dgn

DESIGN AGENCY
fishbeck
DESIGNER
JAL
REVIEWER
JAH 05/01/24
PROJECT ID
110563
SHEET P.004
TOTAL 103

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.005	P.006	P.007	P.008	P.017	P.018	P.019	P.020	P.021	P.035				01/IMS/10						
																		ROADWAY	
													LS	201	11000	LS		CLEARING AND GRUBBING	P.005
				18	1,071								1,089	202	23000	1,089	SY	PAVEMENT REMOVED	
					472								472	202	30000	472	SF	WALK REMOVED	
				55									55	202	30700	55	FT	CONCRETE BARRIER REMOVED	
				26									26	202	32000	26	FT	CURB REMOVED	
				231									231	202	32500	231	FT	CURB AND GUTTER REMOVED	
						26							26	202	35100	26	FT	PIPE REMOVED, 24" AND UNDER	
				1,313									1,313	202	38000	1,313	FT	GUARDRAIL REMOVED	
				2									2	202	42010	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E	
				4									4	202	42040	4	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
				5									5	202	47000	5	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
				4									4	202	47800	4	EACH	IMPACT ATTENUATOR REMOVED	
				4									4	202	53100	4	EACH	MAILBOX REMOVED	
								1,682	469				2,151	203	10000	2,151	CY	EXCAVATION	
									592				592	203	20000	592	CY	EMBANKMENT	
					1,545								1,545	204	10000	1,545	SY	SUBGRADE COMPACTION	
				625									625	606	15050	625	FT	GUARDRAIL, TYPE MGS	
				150									150	606	15550	150	FT	GUARDRAIL, BARRIER DESIGN, TYPE MGS	
				3									3	606	26150	3	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
				7									7	606	26550	7	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
				3									3	606	35002	3	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
				1									1	606	35102	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
				2									2	606	60012	2	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)	
					1,375								1,375	608	12000	1,375	SF	5" CONCRETE WALK	
								1,880					1,880	622	41100	1,880	FT	PORTABLE BARRIER, UNANCHORED	
				4									4	SPECIAL	69050100	4	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	P.06
		LS											LS	SPECIAL	69098400	LS		ITEM SPECIAL - CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION	P.07
	LS												LS	SPECIAL	69098400	LS		MISC.:WORK INVOLVING ASBESTOS CONTAINING MATERIALS	P.06
																		EROSION CONTROL	
50						4							54	601	21050	54	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
						62							62	601	23000	62	SY	ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1	
			15										15	616	10000	15	MGAL	WATER	
									280				280	659	00300	280	CY	TOPSOIL	
									2,518				2,518	659	10000	2,518	SY	SEEDING AND MULCHING	
									126				126	659	14000	126	SY	REPAIR SEEDING AND MULCHING	
									126				126	659	15000	126	SY	INTER-SEEDING	
									0.35				0.35	659	20000	0.35	TON	COMMERCIAL FERTILIZER	
									0.53				0.53	659	31000	0.53	ACRE	LIME	
									14				14	659	35000	14	MGAL	WATER	
													10,000	832	30000	10,000	EACH	EROSION CONTROL	
						79							79	836	10000	79	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	
																		DRAINAGE	
						0.2							0.2	602	20000	0.2	CY	CONCRETE MASONRY	
25													25	605	13300	25	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
						372							372	605	14000	372	FT	6" BASE PIPE UNDERDRAINS	
40													40	605	31100	40	FT	AGGREGATE DRAINS	
25						30							55	611	00510	55	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
						65							65	611	04600	65	FT	12" CONDUIT, TYPE C	
						33							33	611	04600	33	FT	12" CONDUIT, TYPE C, 706.1	
						2							2	611	98470	2	EACH	CATCH BASIN, NO. 2-2B	
						1							1	611	99574	1	EACH	MANHOLE, NO. 3	
1						2							3	611	99710	3	EACH	PRECAST REINFORCED CONCRETE OUTLET	

GENERAL SUMMARY

HAM-74-13.35

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 7/16/2024 TIME: 1:42:41 PM USER: avega
Z:\2022\220827\CAD\ODOT\110563\400-Engineering\Roadway\Sheets\110563_GG001.dgn

DESIGN AGENCY
fishbeck

DESIGNER
JAL/JBT

REVIEWER
JPC 05/01/24

PROJECT ID
110563

SHEET P.015 TOTAL 103

REF NO.	SHEET NO.	STATION TO STATION			SIDE	202 PIPE REMOVED, 24" AND UNDER (FT)	601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT (SY)	601 ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (SY)	602 CONCRETE MASONRY (CY)	605 6" BASE PIPE UNDERDRAINS (FT)	611 12" CONDUIT, TYPE C (FT)	611 12" CONDUIT, TYPE C, 706.1 (FT)	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS (FT)	611 CATCH BASIN, NO. 2-2B (EACH)	611 PRECAST REINFORCED CONCRETE OUTLET (EACH)	611 MANHOLE, NO. 3 (EACH)	836 SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (SY)
D-1	P.023	21+84.60	TO	22+15.00	LT				0.2			33		1		1	
D-2	P.023	22+15.00	TO	22+80.00	LT						65			1			
D-3	P.023	22+37.30	TO	22+62.90	LT	26											
UD-1	P.023	21+54.44	TO	23+30.00	LT		2			176			16		1		
UD-2	P.023	21+47.05	TO	23+51.00	RT		2			196			14		1		
EC-1	P.023	20+81.00	TO	21+49.58	RT			31									
EC-2	P.023	20+80.90	TO	21+49.58	LT			31									
EC-3	P.023	21+49.58	TO	22+89.43	RT												63
EC-4	P.023	21+49.58	TO	21+84.94	LT												16
TOTALS CARRIED TO GENERAL SUMMARY						26	4	62	0.2	372	65	33	30	2	2	1	79

DRAINAGE SUBSUMMARY

DESIGN AGENCY
fishbeck

DESIGNER
JAL/JBT

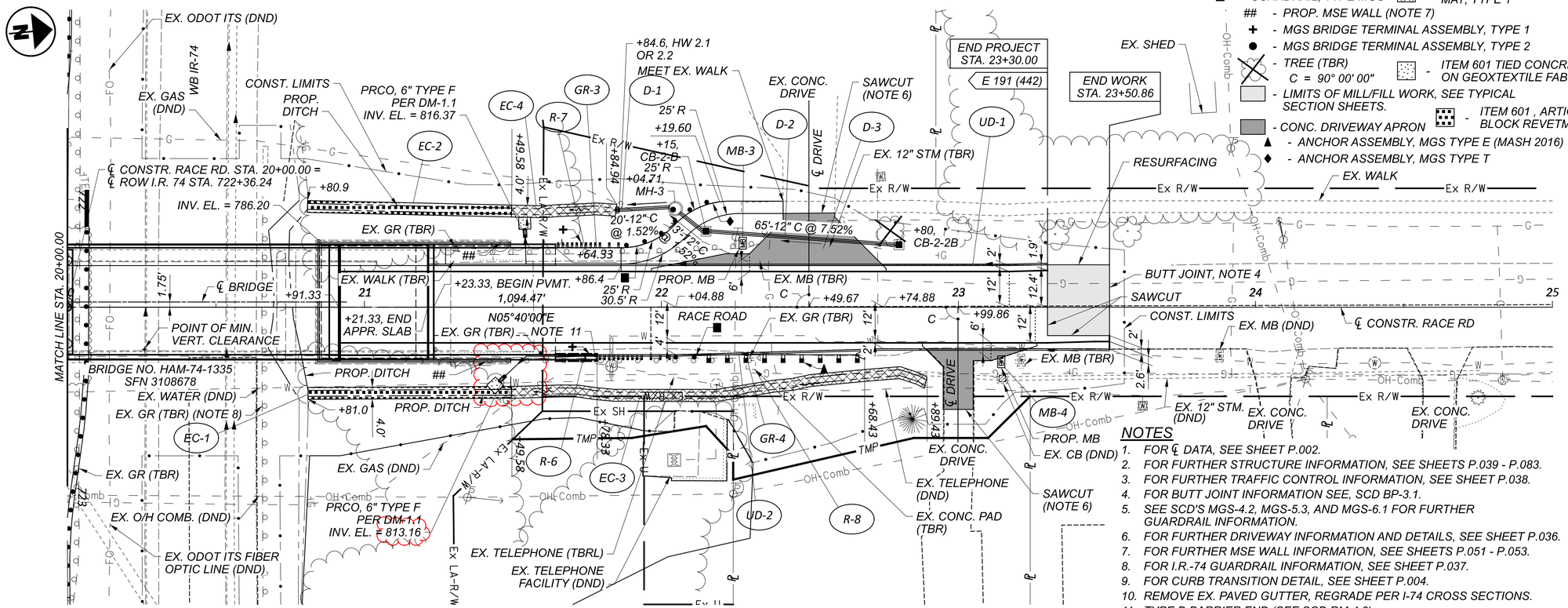
REVIEWER
JPC 05/01/24

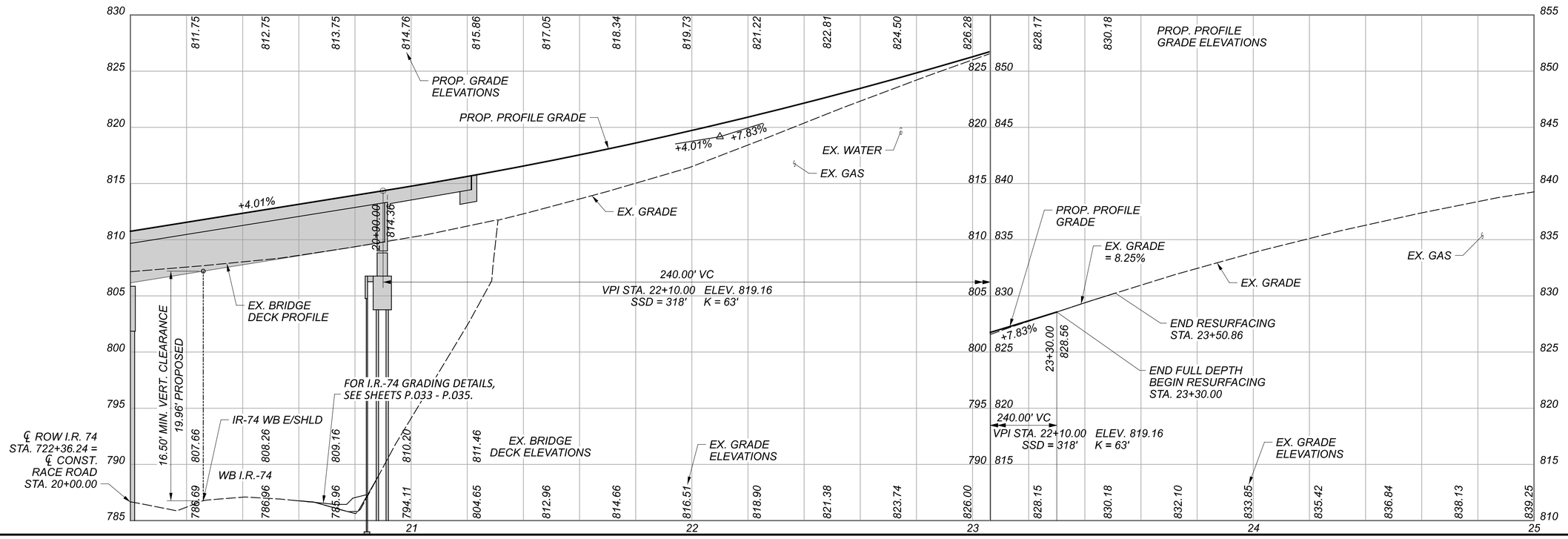
PROJECT ID
110563

SHEET P.019 | TOTAL 103

HAM-74-13.35

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 7/16/2024 TIME: 1:42:43 PM USER: avega
Z:\2022\220827\CAD\ODOT\110563400-Engineering\Roadway\Sheets\110563_GS003.dgn





HAM-74-13.35

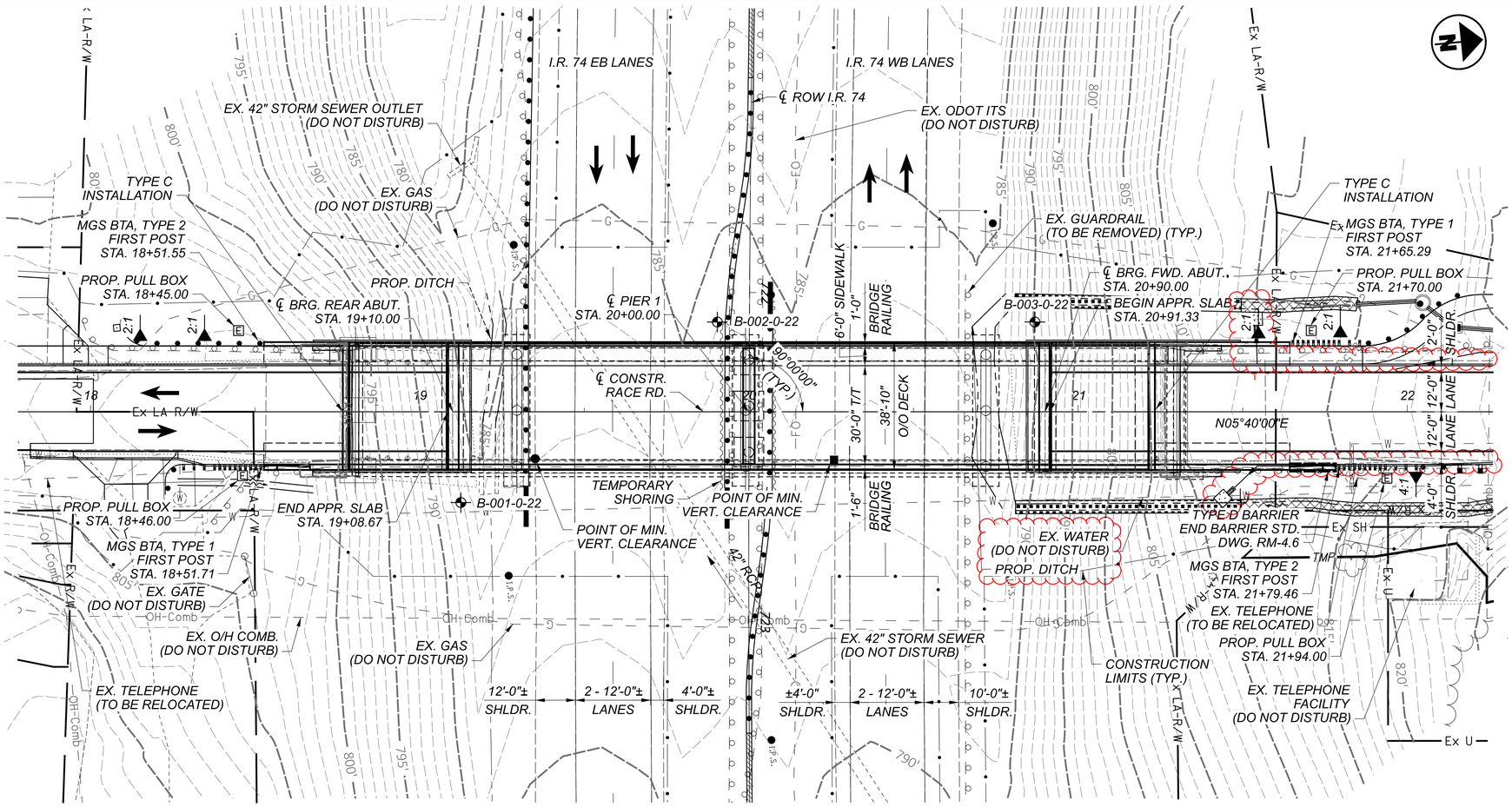
MODEL: CLP_RACE_ROAD - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/16/2024 TIME: 1:42:49 PM USER: avega
Z:\2022\220827\CAD\ODOT\110563\400-Engineering\Roadway\Sheets\110563_GP001.dgn

HORIZONTAL SCALE IN FEET
0 10 20 40

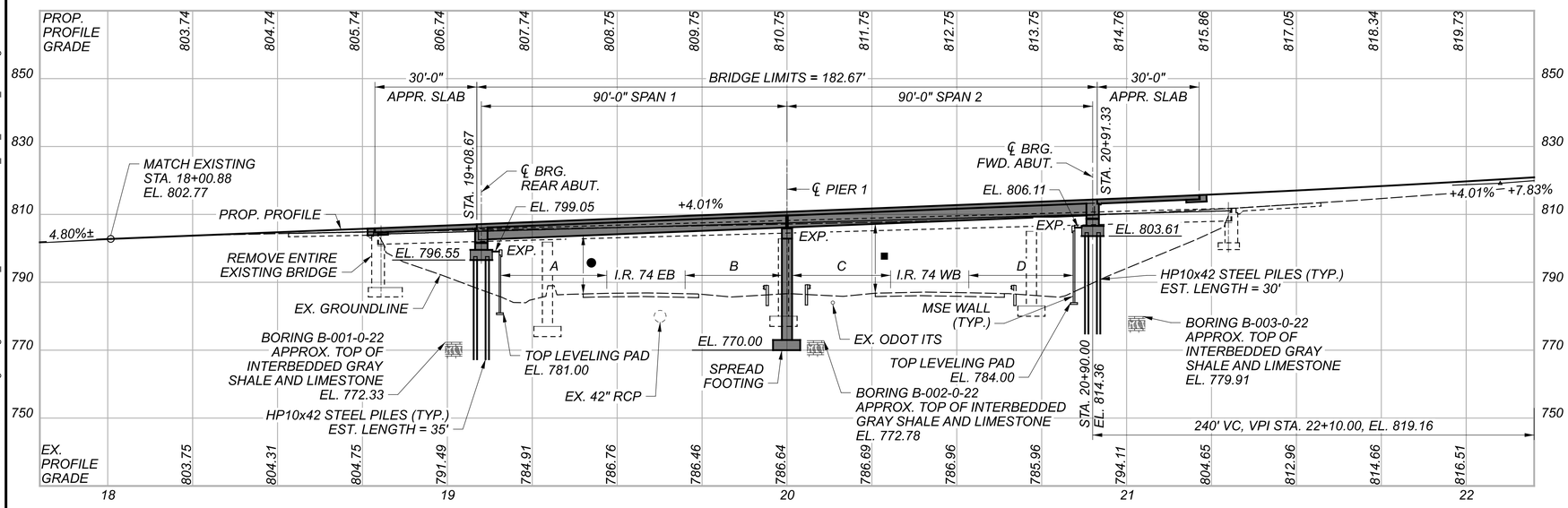
PLAN AND PROFILE
STA. 20+00 TO END PROJECT

DESIGN AGENCY
fishbeck

DESIGNER	JAL
REVIEWER	JAH 05/01/24
PROJECT ID	110563
SHEET	P.023
TOTAL	103



PLAN



PROFILE ALONG ℄ CONSTRUCTION RACE ROAD

BENCHMARK DATA

BM 500 STA.	18+04.17,	EL.	802.675,	OFFSET	19.65' RT.
BM 501 STA.	24+25.28,	EL.	835.668,	OFFSET	31.96' LT.
CP 158 STA.	722+00.64,	EL.	785.512,	OFFSET	6.53' LT.

FOR ADDITIONAL BENCHMARK INFORMATION SEE ROADWAY PLAN SHEET P.002/103.
FOR MEDIAN AND SHOULDER GUARDRAIL WORK SEE ROADWAY PLAN SHEET P.037/103.

NOTES:

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:

2026 ADT =	6,400	2026 ADTT =	64
2046 ADT =	7,600	2046 ADTT =	76

DIRECTIONAL DISTRIBUTION = 0.51

LEGEND:

- PROJECT BORING LOCATION
- EASTBOUND I.R. 74
  16'-6" REQUIRED MINIMUM VERTICAL CLEARANCE
  16'-10" ACTUAL MINIMUM VERTICAL CLEARANCE
- WESTBOUND I.R. 74
  16'-6" REQUIRED MINIMUM VERTICAL CLEARANCE
  19'-11½" ACTUAL MINIMUM VERTICAL CLEARANCE

BTA = BRIDGE TERMINAL ASSEMBLY

A = MIN. HORIZ. CLEARANCE = 31'-3"
REQ'D. HORIZ. CLEARANCE = 30'-0"
B = MIN. HORIZ. CLEARANCE = 28'-6"
REQ'D. HORIZ. CLEARANCE = 10'-0"
C = MIN. HORIZ. CLEARANCE = 29'-0"
REQ'D. HORIZ. CLEARANCE = 10'-0"
D = MIN. HORIZ. CLEARANCE = 30'-9"
REQ'D. HORIZ. CLEARANCE = 30'-0"

EXISTING STRUCTURE

TYPE: 4-SPAN CONTINUOUS ROLLED STEEL BEAM WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 49'-0"±, 69'-6"±, 73'-0"±, 58'-0"± C/C BEARINGS
ROADWAY: 30'-0"± T/T CURB WITH 4'-0"± SIDEWALKS
LOADING: CF-400 (57)
SKEW: NONE
WEARING SURFACE: 1"± SDC OVERLAY
APPROACH SLABS: 25'± LONG (AS-1-54)
ALIGNMENT: TANGENT
CROWN: 0.016± FT/ FT
STRUCTURE FILE NUMBER: 3108678
DATE BUILT: 1969 REHABILITATED: 1992
DISPOSITION: TO BE REPLACED

PROPOSED STRUCTURE

TYPE: 2-SPAN PRESTRESSED CONCRETE WIDE FLANGE BEAM COMPOSITE WITH REINFORCED CONCRETE DECK ON SEMI-INTEGRAL ABUTMENTS BEHIND MSE WALLS AND CAP & COLUMN PIER

SPANS: 88'-11", 88'-11" C/C BEARINGS
ROADWAY: 30'-0" T/T, 6'-0" SIDEWALK LEFT SIDE
LOADING: HL93 AND 0.06 KSF FUTURE WEARING SURFACE
SKEW: NONE
WEARING SURFACE: 1" MONOLITHIC CONCRETE
APPROACH SLABS: 30'-0" LONG (AS-1-15 MODIFIED, AS-2-15 TYPE C INSTALLATION)
ALIGNMENT: TANGENT
CROWN: 0.016 FT/FT
DECK AREA: 7,094 SF

COORDINATES: LATITUDE 39°11'11.84" N
LONGITUDE 84°37'40.94" W

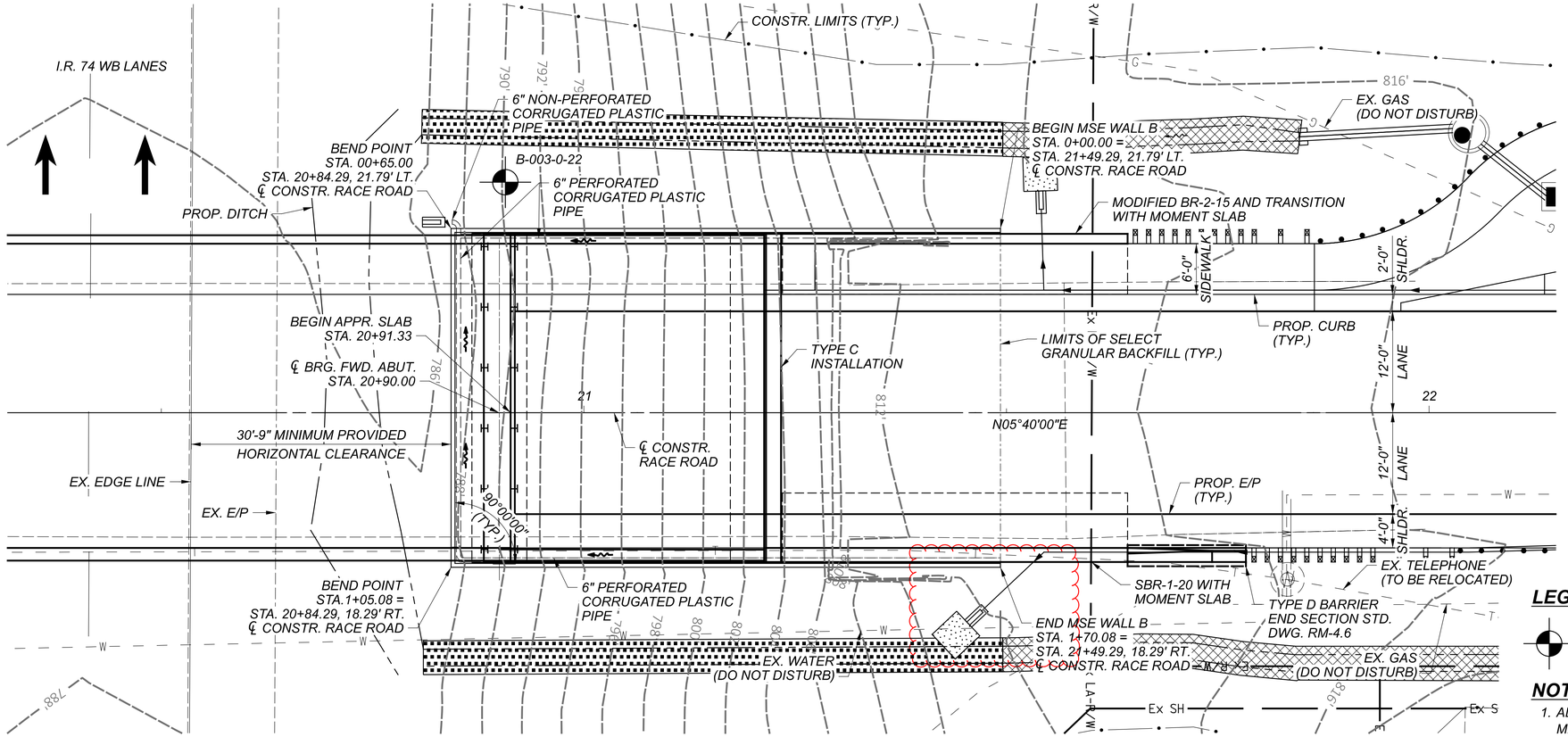
HORIZONTAL SCALE IN FEET
0 10 20 40

SITE PLAN
BRIDGE NO. HAM-74-1335
RACE ROAD OVER I.R. 74

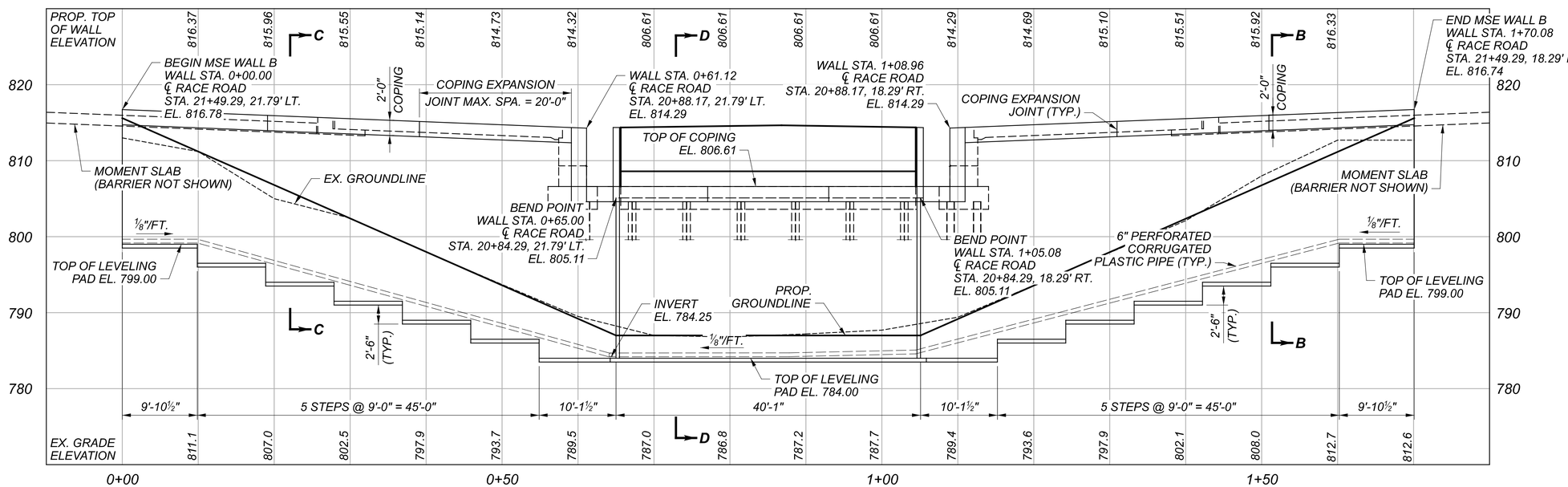
SFN 3108680
DESIGN AGENCY fishbeck
DESIGNER BMV | CHECKER JPC
REVIEWER JBD 04/30/24
PROJECT ID 110563
SUBSET S.01 | TOTAL 45
SHEET P.039 | TOTAL 103

HAM-74-13.35

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 7/16/2024 TIME: 1:43:28 PM USER: avega
Z:\2022\220827\CAD\ODOT\110563\400-Engineering\Structures\SFN_3108680\Sheets\110563_SFN_3108680_SP001.dgn



MSE WALL B PLAN



PROFILE ALONG MSE WALL B

LEGEND:

PROJECT BORING LOCATION

NOTES:

1. ALL STATIONS, OFFSETS, ELEVATIONS AND DIMENSIONS MEASURED ALONG FRONT FACE OF MSE WALL PANEL.
2. FOR SECTIONS B-B, C-C, D-D SEE SHEET S.15/ 45 .
3. FOR MOMENT SLAB DETAILS SEE SHEETS S.34/ 45 THRU S.38/ 45 .

PLAN AND ELEVATION
MSE RETAINING WALL B

DESIGN AGENCY: fishbeck

DESIGNER	
BMV	
REVIEWER	
JPC	04/30/24
PROJECT ID	
110563	
SUBSET	TOTAL
S.14	45
SHEET	TOTAL
P.052	103

HAM-74-13.35

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 7/16/2024 TIME: 1:43:46 PM USER: avega
Z:\2022\220827\CAD\ODOT\110563\400-Engineering\Structures\SFN_3108680\Sheets\110563_SFN_3108680_SM002.dgn