

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

CLI/GRE-IR 71-10.57/0.00

LIBERTY, JEFFERSON TOWNSHIP,
CLINTON, GREENE COUNTY

FEDERAL PROJECT NUMBER

E231011

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

RESURFACING A PORTION OF IR 71 IN CLINTON AND GREENE COUNTIES,
ALONG WITH THE RAMPS AT SR 72.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 4.28 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)
ROUTINE MAINTENANCE PROJECT

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

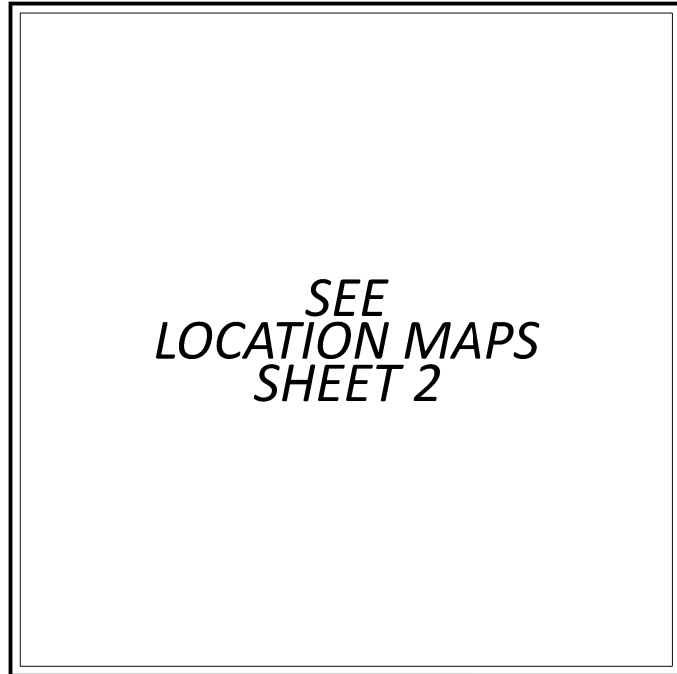
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Tammy K Campbell
District Deputy Director

Jack Marchbanks
Jack Marchbanks, PhD
Director, Department of Transportation

TITLE SHEET



LOCATION MAP

LATITUDE: 39°52'90" LONGITUDE: -83°72'67"



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

DESIGN DESIGNATION

	CLI-71	GRE-71	GRE-71
CURRENT ADT (2025)	41,000	39,500	41,500
DESIGN YEAR ADT (2037)	44,500	40,500	45,000
DESIGN HOURLY VOLUME (2037)	6,100	3,600	6,800
DIRECTIONAL DISTRIBUTION	56.0%	53.2%	55.0%
TRUCKS (24 HOUR B&C)	23.0%	24.0%	23.0%
DESIGN SPEED	70	70	70
LEGAL SPEED	70	70	70
DESIGN FUNCTIONAL CLASSIFICATION:			
01 INTERSTATES (RURAL)			
NHS PROJECT	YES		

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

OHIO811.org
Before You Dig

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

PLAN PREPARED BY:
OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 8 ENGINEERING
505 SOUTH SR 741
LEBANON, OHIO 45036

INDEX OF SHEETS:

TITLE SHEET	1
LOCATION MAP	2
TYPICAL SECTIONS	3
GENERAL NOTES	4
MAINTENANCE OF TRAFFIC	5,6
GENERAL SUMMARY	7
PAVEMENT CALCULATIONS	8
PAVEMENT MARKINGS /RAISED PAVEMENT MARKERS	9
STRUCTURES	
CLI-IR 71 12.37	10-12
GRE-IR 71-2.96	13-15

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
	MT-95.45	7/21/23		800-2023 7/19/24	
BP-3.1	1/19/24	MT-95.50	7/21/17	807 1/21/22	
BP-5.1	7/15/22	MT-98.10	1/17/20	808 7/19/24	
BP-9.1	1/18/19	MT-98.22	1/17/20	821 4/20/12	
		MT-99.30	1/17/20	850 7/21/23	
MGS-1.1	7/16/21	MT-99.50	7/21/23	875 1/18/19	
MGS-2.1	1/19/18	MT-101.90	7/17/20	905 4/17/20	
MGS-3.1	1/19/18	MT-102.20	4/19/19	908 10/20/17	
MGS-5.3	7/15/16	MT-104.10	1/19/24	921 7/19/24	
MGS-6.1	1/19/18	MT-105.10	1/17/20	905 4/17/20	
				832 7/19/24	
RM-4.2	4/17/20	TC-65.10	1/17/14		
RM-4.5	7/21/17	TC-65.11	1/19/24		
RM-4.6	7/19/13	TC-72.20	7/21/23		
		TC-73.20	7/19/24		
MT-95.30	7/19/19	TC-61.30	7/19/24		

ENGINEER'S SEAL
ROADWAY

STATE OF OHIO
JOHN DENNIS OTIS
E-70344
PROFESSIONAL ENGINEER

CLI/GRE-IR 71-10.57/0.00

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DESIGN AGENCY
DESIGNER
JED
REVIEWER
JDO 08-05-24
PROJECT ID
100561
SHEET TOTAL
1 15

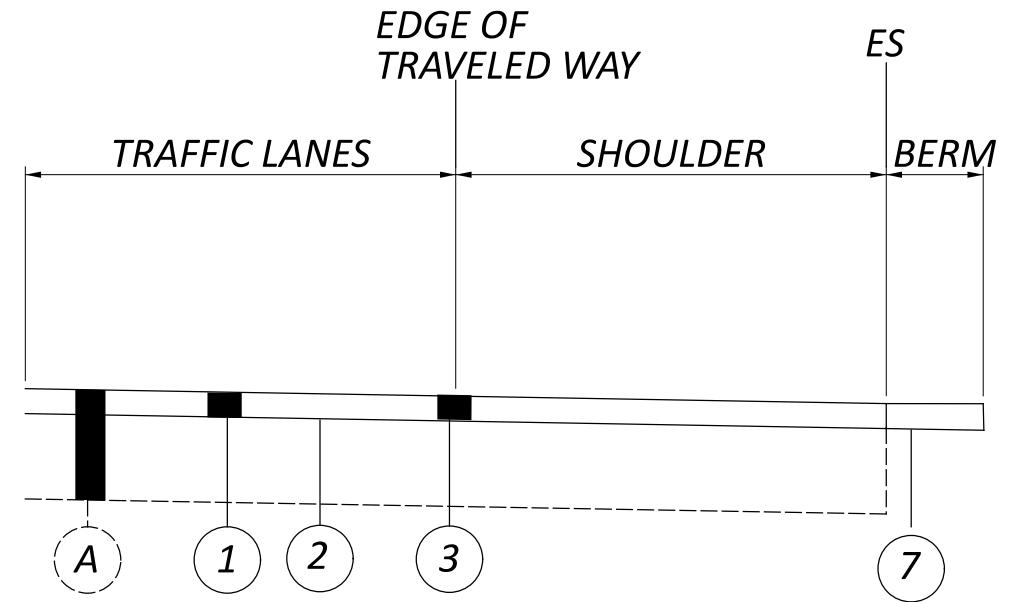
LEGEND

EXISTING

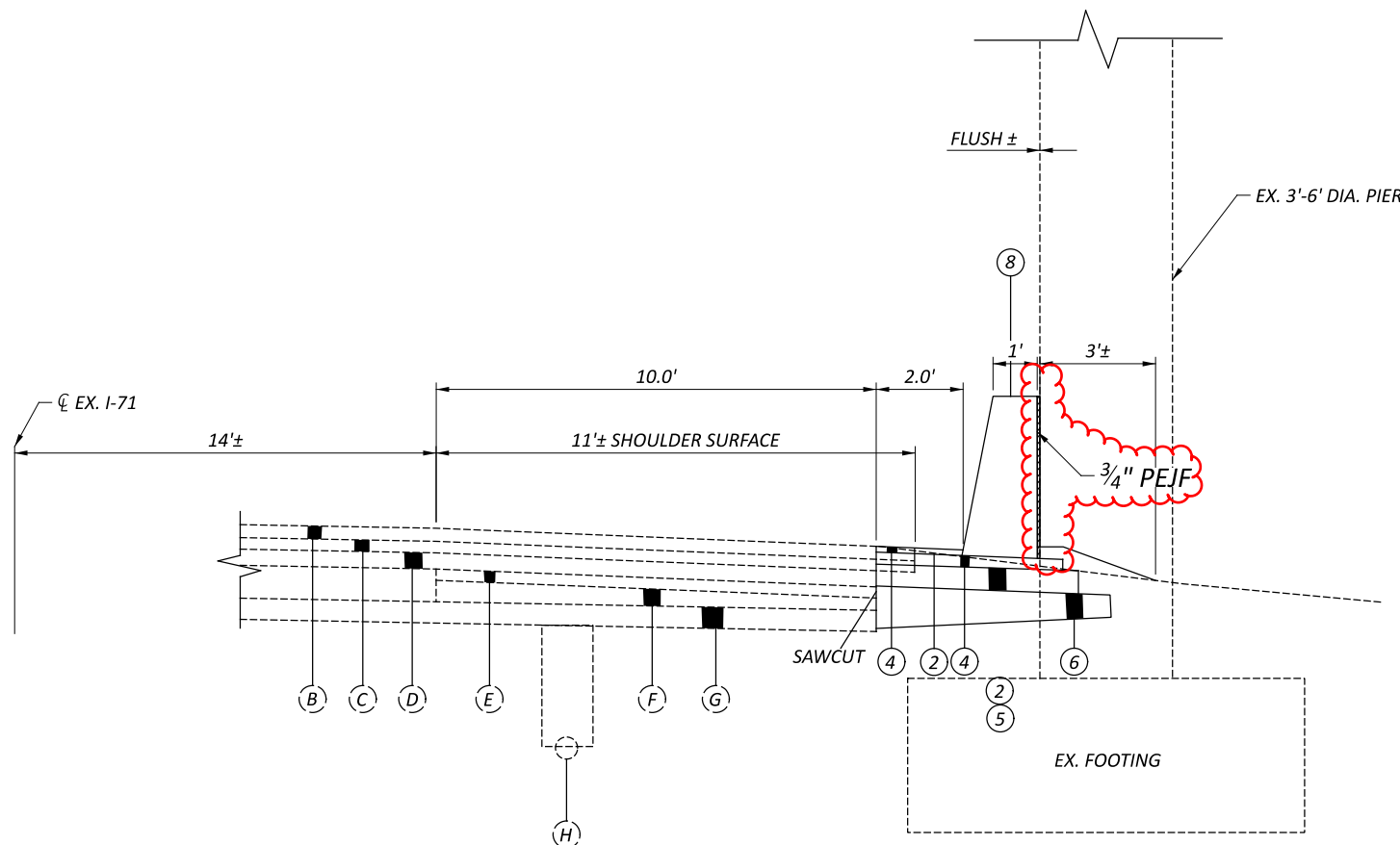
- (A) EX. ASPHALT
- (B) 3.5" ASPHALT CONCRETE
- (C) 3" ASPHALT CONCRETE
- (D) 4.5" ASPHALT CONCRETE BASE COURSE
- (E) 3" WATERPROOF AGGREGATE BASE
- (F) VAR. DEPTH AGGREGATE BASE
- (G) 6" SUBBASE
- (H) 6" UNDERDRAIN

PROPOSED

- (1) ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A, (447), PWL, 2025, AS PER PLAN
- (2) ITEM 407 - NON-TRACKING TACK COAT
- (3) ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"
- (4) ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A, (449)
- (5) ITEM 301 - 12" ASPHALT CONCRETE BASE, PG64-22, (449)
- (6) ITEM 304 - AGGREGATE BASE (THICKNESS AS SHOWN)
- (7) COMPACTED AGGREGATE, 1.5" DEPTH 12" WIDTH
- (8) CONCRETE BARRIER, SINGLE SLOPE, REINFORCED, TYPE D, AS PER PLAN

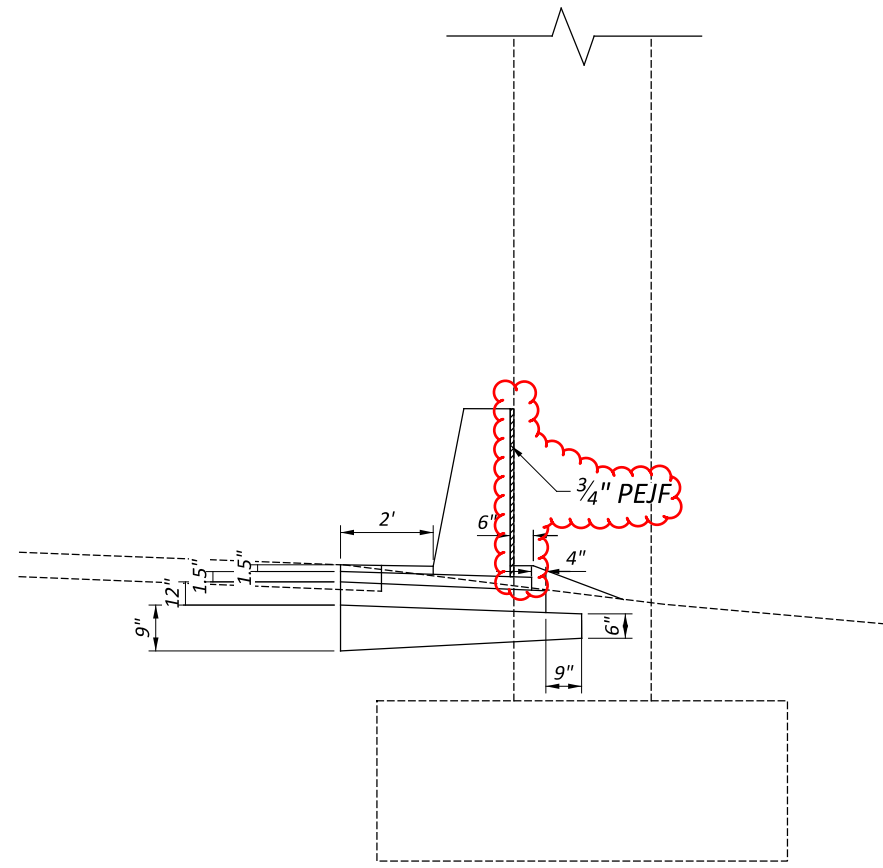


RESURFACING SECTION - I-71



I-71 PIER PROTECTION

CLI-71-1237 (Sabina Road)
 Southbound and Northbound IR-71
 GRE-71-0299 (Smith Road)
 Southbound IR-71



I-71 EDGE COURSE & PAVEMENT THICKNESS DETAIL

CLI-71-1237 (Sabina Road)
 Southbound and Northbound IR-71
 GRE-71-0299 (Smith Road)
 Southbound IR-71

TYPICAL SECTIONS

DESIGN AGENCY



DESIGNER	NCD
REVIEWER	JDO
PROJECT ID	08-05-24
SHEET	100561
TOTAL	15

CLI/GRE-IR 71-10.57/0.00

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CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER UNLESS AUTHORIZED BY THE ENGINEER". THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DIRECTION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THE PROJECT.

UTILITIES

THIS PROJECT REQUIRES THE INSTALLATION OF NEW GUARDRAIL POSTS. SURVEY WORK HAS NOT BEEN PERFORMED ON THIS PROJECT, NOR HAVE THE UTILITY LOCATIONS BEEN CONFIRMED IN THE FIELD. IN ADDITION TO CMS 105.07, IF, DURING THE COURSE OF INSTALLING ANY NEW GUARDRAIL COMPONENT, IT IS DETERMINED THAT A UTILITY CONFLICT MAY RESULT, THE CONTRACTOR IS TO NOTIFY THE PROJECT ENGINEER IMMEDIATELY. UTILITIES ARE NOT TO BE RELOCATED AS A RESULT OF THIS OPERATION. ADJUSTMENTS TO THE PROPOSED GUARDRAIL WILL ACCOMMODATE THE EXISTING UTILITY. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE GUARDRAIL VIA MEANS THAT WOULD BE COMPLIANT WITH THE IMPACTED UTILITY'S SAFETY GUIDELINES AS WELL AS STILL MEETING ODOT'S DESIGN CRITERIA. ANY MINOR ADJUSTMENTS MADE TO THE PROPOSED GUARDRAIL INSTALLATIONS SHALL BE INCIDENTAL TO PAY ITEM 606.

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA.

ITEM 623- CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN

PRIOR TO THE START OF ROADWAY OPERATION, THE CONTRACTOR SHALL REFERENCE THE LENGTH OF THE PROJECT ON BOTH SIDES OF THE ROADWAY, IN A MANNER SATISFACTORY TO THE ENGINEER. THE PAVEMENT SHALL BE REFERENCED IN 1000' FEET INCREMENTS, OR IN INCREMENTS ACCEPTABLE TO THE ENGINEER, IN A SEMI-PERMANENT CONDITION.

ITEM 254- PAVEMENT PLANING, ASPHALT CONCRETE

THE PLANING SHALL BE SCHEDULED SO AS TO BE COVERED BY THE SURFACE COURSE ON CLI/GRE-IR 71 NB/SB AND PRIOR TO REOPENING THE LANE TO TRAFFIC. THE COST OF THE ABOVE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RESPECTIVE ITEM. A DISINCENTIVE IN THE AMOUNT OF \$3,600 SHALL BE FOR EACH DAY, OR PORTION THEREOF, A PLANED SURFACE IS OPEN TO TRAFFIC.

ADJUST DEPTH OF PLANING AT NECESSARY BRIDGE APPROACH SLABS. PLANE PAVEMENT TO PROVIDE SMOOTH TRANSITIONS AT BRIDGE(S).

PERMANENT PAVEMENT MARKINGS

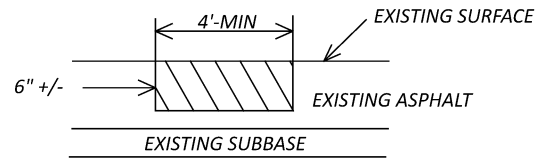
THE CONTRACTOR SHALL REFERENCE ALL PAVEMENT MARKINGS INCLUDING AUXILIARY PAVEMENT MARKINGS BEFORE THE START OF THE RESURFACING OPERATION. THIS WILL BE NECESSARY TO ASSURE THE CORRECT PLACEMENT OF MARKINGS IN ORIGINAL LOCATIONS, EXCEPT RAMP MARKINGS AT GORES PER THE CURRENT STANDARD DRAWING. PAYMENT FOR THIS OPERATION SHALL BE INCLUDED WITH EACH RESPECTIVE PAVEMENT MARKING ITEM.

PROFILE AND ALIGNMENT

PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT.

ITEM 253- PAVEMENT REPAIR

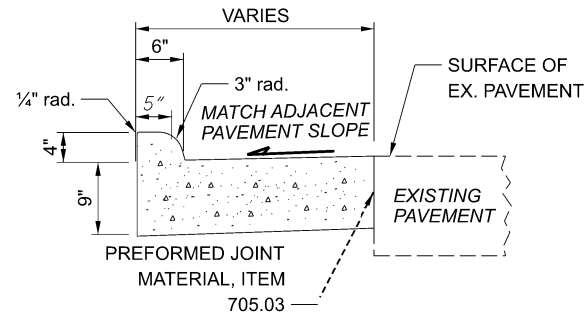
AN ESTIMATED QUANTITY OF 1650 CU YDS OF ITEM 253- PAVEMENT REPAIR HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER. THIS OPERATION SHALL BE PERFORMED BEFORE PAVEMENT PLANING OF ROADWAY. RESURFACING OF THESE AREAS SHALL TAKE PLACE WITHIN 2 WEEKS OF PERFORMING THE REPAIR WORK.



EXISTING DETERIORATED ASPHALT SHALL BE REMOVED TO A DEPTH OF 6" +/- OR AS DIRECTED BY THE ENGINEER AND REPLACED WITH ITEM 301, ASPHALT CONCRETE BASE. THE 301 SHALL BE COMPACTED AS PER 401.15 AND IN APPROXIMATELY EQUAL LAYERS. THE LOCATIONS AND SIZE OF THE REPAIRS SHALL BE DETERMINED BY THE ENGINEER.

ITEM 609 COMBINATION CURB AN GUTTER, TYPE 4, AS PER PLAN

AT LOCATIONS WHERE EXISTING BRIDGE TERMINAL ASSEMBLIES ARE TO BE UPGRADED TO MGS, A CURB IS TO BE INSTALLED PER STD. DWG. MGS-3.1. THIS PAY ITEM INCLUDES THE REMOVAL OF ANY EXISTING SOIL OR PAVEMENT AND REPLACEMENT WITH CURB AND GUTTER FOLLOWING THE BELOW DETAIL.



ITEM UNIT DESCRIPTION	QUANTITY
ITEM 609 COMBINATION CURB AN GUTTER, TYPE 4, AS PER PLAN	54 FEET
BRIDGE NO. CLI-IR 71-12.37 (SABINA RD) NB	18 FT
BRIDGE NO. GRE-IR 71-2.967 (SMITH RD) NB	18 FT
BRIDGE NO. GRE-IR 71-2.967 (SMITH RD) SB	18 FT

ITEM 202 - BRIDGE TERMINAL ASSEMBLY REMOVED

THIS PAY ITEM IS TO INCLUDE REMOVAL OF ANY EXTRA COMPONENTS IN ADDITION TO STANDARD GUARDRAIL COMPONENTS WITHIN THE LIMITS OF THE BRIDGE TERMINAL ASSEMBLY. SEE SHEETS 10 AND 14 FOR QUANTITIES.

ITEM 645 PREFORMED PAVEMENT MARKINGS, MISC.: LANE AND EDGE LINE, 6", TYPE A4

IN ADDITION TO THE REQUIREMENTS OF CMS 645 AND SUPPLEMENT SPECIFICATION 807, THE PRE-FORMED MARKINGS SHALL BE WET-REFLECTIVE MEETING ODOT REQUIREMENTS. QUANTITY SHALL BE PAID FOR BY THE UNIT PRICE AS OUTLINED IN THE GENERAL SUMMARY.

442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), PWL, 2025, AS PER PLAN

ALL REQUIREMENTS OF C&MS ITEM 442 APPLY EXCEPT AS SHOW.

MAT DENISTY ACCEPTANCE - FOLLOW THE REQUIREMENTS OF 447 MAT DENISTY ACCEPTANCE, EXCEPTS AS MODIFIED BELOW.

OBTAIN 6-INCH DIAMETER CORES FOR EACH LOT .

THE PWL CALCULATOR, LOCATED ON THE ODOT WEBSITE AT THE OFFICE OF CONSTRUCTION ADMINISTRATION, WILL BE USED TO DETERMINE THE LOT PWL AND THE LOT AASHTO PAY FACTORS.

THE DEPARTMENT WILL DETERMINE THE PAY FACTOR FOR EACH LOT CORED BY THE FOLLOWING TABLES.

LOWER SPECIFICATION LIMIT	SURFACE WITH 3 JOINT CORES PAY FACTOR CRITERIA	PAY FACTOR (PF)
92.6%	IF AVE DENSITY IS ≥ 93% AND PWL ≥ 90	PF = 1 OR AASHTO OR WHICHEVER IS GREATER
	IF 90 > PWL > 50	AASHTO PF
	IF PWL ≤ 50	REMOVE AND REPLACE

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 REBOUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.191.

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.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 57 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FEDERAL AVIATION ADMINISTRATION
 SOUTHWEST REGIONAL OFFICE
 OBSTRUCTION EVALUATION GROUP
 10101 HILLWOOD PARKWAY
 FORT WORTH, TX 76177
 FAX: (817) 222-5920
 HTTP://CEAAA.FAA.GOV

OHIO DEPARTMENT OF TRANSPORTATION
 OFFICE OF AVIATION
 2829 WEST DUBLIN-GRANVILLE ROAD
 COLUMBUS, OHIO 43235
 OHIO.AIRPORT.PROTECTION@DOT.OHIO.GOV




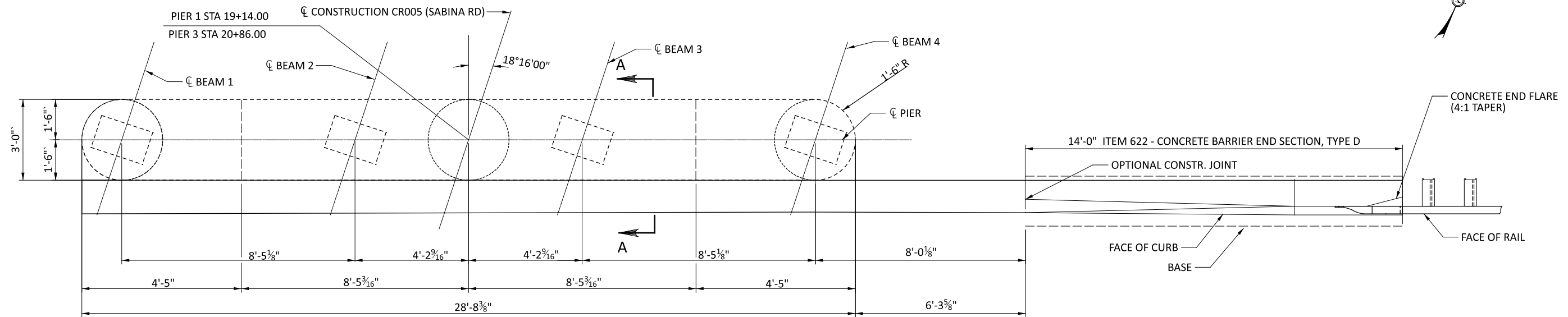
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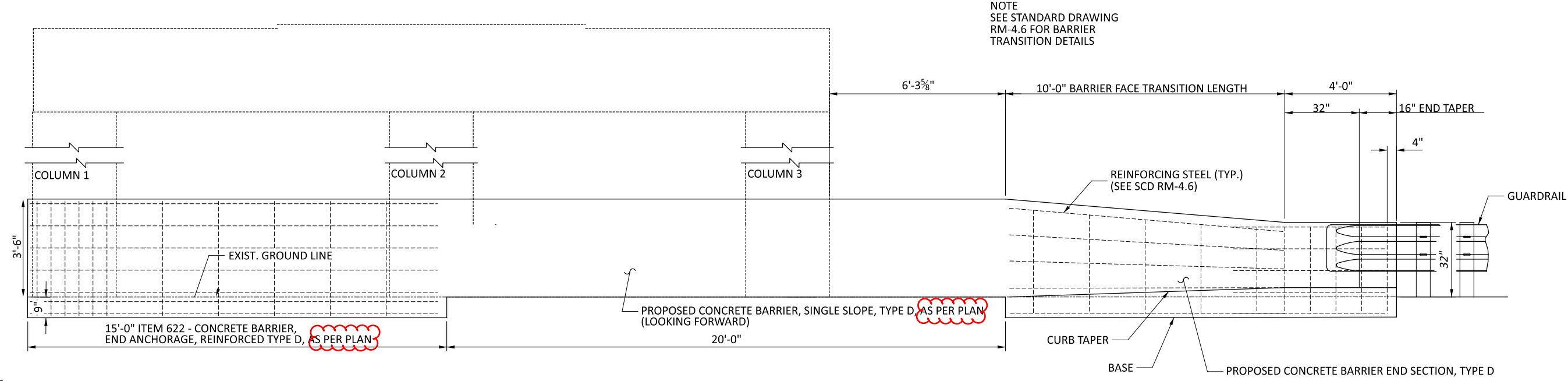
SHEET NUM.												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	6	8	9	10	11	12	13	14	15		01/IMS/05	EXT	TOTAL				
						86			39			125	202	30700	125	FT	ROADWAY CONCRETE BARRIER REMOVED	
						38			17			55	202	23001	55	SY	PAVEMENT REMOVED, AS PER PLAN	11,15
					263			38				301	202	38000	301	FT	GUARDRAIL REMOVED	
					2			1				3	202	42010	3	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E	
					2			1				3	202	47000	3	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
					212.5			37.5				250	606	15050	250	FT	GUARDRAIL, TYPE MGS	
					2			1				3	606	26150	3	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
					2			1				3	606	35002	3	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
54												54	609	23001	54	FT	COMBINATION CURB AND GUTTER, TYPE 4, AS PER PLAN	4
							40					60	622	10161	60	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN	12,15
							2					1	622	15000	3	EACH	CONCRETE BARRIER END SECTION, TYPE D	
							2					1	622	25051	3	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN	12,15
												1,000	832	30000	1,000	EACH	EROSION CONTROL	
												1,650	253	02000	1,650	CY	PAVEMENT REPAIR	
1,650					358,369							358,369	254	01000	358,369	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"	
					3,599							3,599	254	01600	3,599	SY	PATCHING PLANED SURFACE	
							13		6			19	301	56000	19	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
							10		4			14	304	20000	14	CY	AGGREGATE BASE	
												32,275	407	20000	32,275	GAL	NON-TRACKING TACK COAT	
					32,254			18	3			14,933	442	10300	14,933	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), PWL 2025, AS PER PLAN	8
					14,933			4	2			6	442	22100	6	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449)	
												9,562	442	00100	9,562	CY	ANTI-SEGREGATION EQUIPMENT	
												742	617	10100	742	CY	COMPACTED AGGREGATE	
												17,812	617	20000	17,812	SY	SHOULDER PREPARATION	
												15	617	25000	15	MGAL	WATER	
												29	618	40600	29	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
												837	621	00100	837	EACH	RPM	
												837	621	54000	837	EACH	RAISED PAVEMENT MARKER REMOVED	
												3	626	00102	3	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY	
								1				8	626	00110	8	EACH	BARRIER REFLECTOR, TYPE 2, ONE WAY	
								3				88	644	00500	88	FT	STOP LINE	
												225	644	00720	225	FT	CHEVRON MARKING	
												4	644	01360	4	EACH	WRONG WAY ARROW	
												0.04	645	90000	0.04	MILE	PAVEMENT MARKING, MISC., LANE LINE, 6", TYPE A4	4
												0.08	645	90000	0.08	MILE	PAVEMENT MARKING, MISC., EDGE LINE, 6", TYPE A4	4
												30.76	807	14010	30.76	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6"	
												14.68	807	14110	14.68	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"	
												5,880	807	14310	5,880	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12"	
												4,152	807	14410	4,152	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6"	
												45.52	850	10010	45.52	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
												3,730	850	10110	3,730	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
												5,880	850	10130	5,880	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	
												0.12	850	20010	0.12	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)	
																	MAINTENANCE OF TRAFFIC	
		500										500	614	11110	500	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
			3									3	614	12380	3	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
			15									15	614	13312	15	EACH	BARRIER REFLECTOR, TYPE 2, ONE WAY	
			2									2	614	18600	2	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN	
		14.68										14.68	614	20056	14.68	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	
		30.76										30.76	614	22056	30.76	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT	
												5,880	614	23110	5,880	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
		5,880										4,152	614	24102	4,152	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	
		4,152										88	614	26200	88	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
		88										450	622	41100	450	FT	PORTABLE BARRIER, UNANCHORED	
			450									20	808	18700	20	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
			20														INCIDENTALS	
												LUMP	614	11000	LS		MAINTAINING TRAFFIC	
												LUMP	623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	4
												LUMP	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY

 DESIGNER
 JED
 REVIEWER
 JDO 08-05-24
 PROJECT ID
 100561
 SHEET TOTAL
 7 15



PROPOSED PLAN (CONCRETE BARRIER AND TRANSITION)
 (PIER 1 AND PIER 3)



PROPOSED ELEVATION
 (PIER 1 AND PIER 3)

- NOTE
- SEE STANDARD DRAWING RM-4.5 FOR STANDARD TYPE 'D' BARRIER AND REINFORCED END ANCHORAGE DETAILS.
 - REFER TO STANDARD DRAWINGS FOR REINFORCING STEEL REQUIREMENTS. REBAR SHALL BE INCLUDED WITH THE RESPECTIVE BARRIER ITEMS FOR PAYMENT.

CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN
CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN
 A 3/4" PREFORMED EXPANSION JOINT FILLER PER CMS 705.03 SHALL BE PROVIDED BETWEEN THE BARRIER AND WALL/PIER, AND SHALL BE CONSIDERED INCIDENTAL TO THE COST OF ITEM 622.

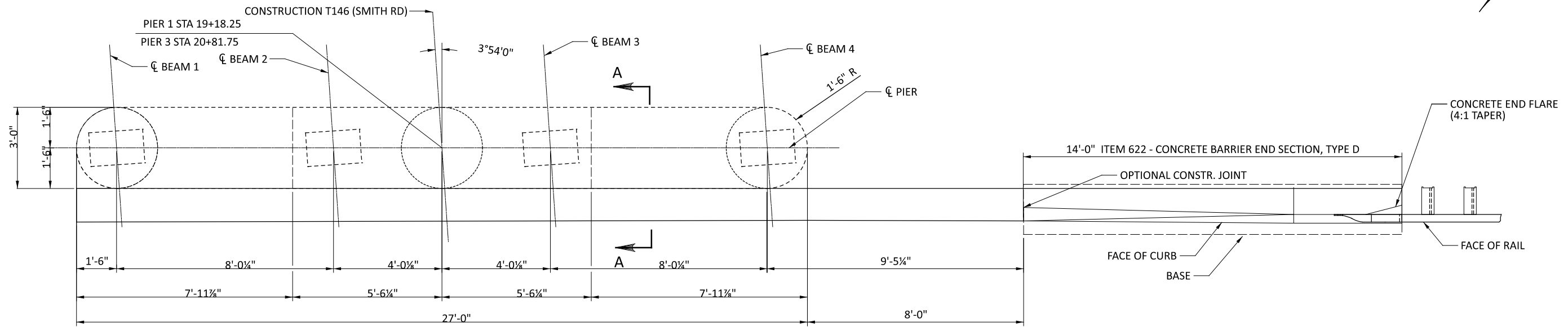
ESTIMATED BARRIER QUANTITIES

- ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN
- ITEM 622 - CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN
- ITEM 622 - CONCRETE BARRIER, END SECTION, TYPE D

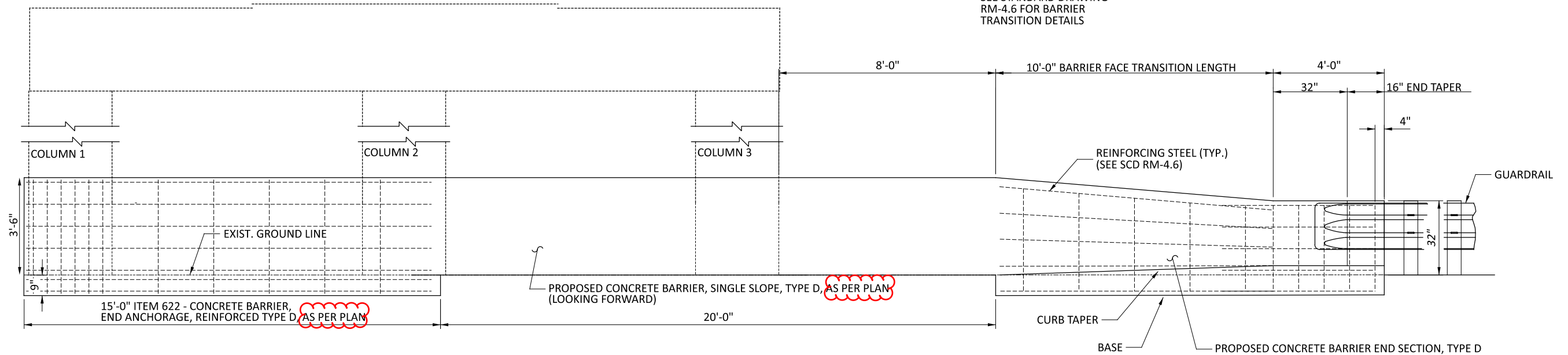
40 FT
 2 EACH
 2 EACH

PIER MODIFICATION PLAN
 BRIDGE NO. CLI-IR-71-2.967
 CR-5 (SABINA RD) OVER I-71

SFN	
1401866	
DESIGN AGENCY	
DESIGNER	CHECKER
JED	GF
REVIEWER	
JDO	08-05-24
PROJECT ID	
100561	
SUBSET	TOTAL
3	3
SHEET	TOTAL
12	15



PROPOSED PLAN (CONCRETE BARRIER AND TRANSITION)



PROPOSED ELEVATION

- NOTE
- SEE STANDARD DRAWING RM-4.5 FOR STANDARD TYPE 'D' BARRIER AND REINFORCED END ANCHORAGE DETAILS.
 - REFER TO STANDARD DRAWINGS FOR REINFORCING STEEL REQUIREMENTS. REBAR SHALL BE INCLUDED WITH THE RESPECTIVE BARRIER ITEMS FOR PAYMENT.

CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN
CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN

A 3/4" PREFORMED EXPANSION JOINT FILLER PER CMS 705.03 SHALL BE PROVIDED BETWEEN THE BARRIER AND WALL/PIER, AND SHALL BE CONSIDERED INCIDENTAL TO THE COST OF ITEM 622.

ESTIMATED GUARDRAIL QUANTITIES

- ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN
- ITEM 622 - CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN
- ITEM 622 - CONCRETE BARRIER, END SECTION, TYPE D

20 FT
 1 EACH
 1 EACH



DESIGNER	CHECKER
JED	GF
REVIEWER	
JDO	08-05-24
PROJECT ID	
100561	
SUBSET	TOTAL
3	3
SHEET	
TOTAL	
15	15