ESTIMATED QUANTITIES

REF.	ITEM	TOTAL	UNIT	ITEM DESCRIPTION	GENERAL	TURNPIKE RAMP OVER S.R. 57 M.P. 145.1	RACE RD. OVER TURNPIKE M.P. 149.2	STEARNS RD. OVER TURNPIKE M.P. 154.6
				GENERAL				
1	IB.ART.6		LUMP	PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND	LUMP SUM			
2	SP 619		LUMP	FIELD OFFICE	LUMP SUM			
3	SP 623		LUMP	CONSTRUCTION LAYOUT SURVEY	LUMP SUM			
4	624		LUMP	MOBILIZATION	LUMP SUM			
				ROADWAY				
4A	201		LUMP	CLEARING AND GRUBBING	LUMP SUM			
5	202	1967	SQ. YD.	PAVEMENT REMOVED		347	1620	
6	202	284	SQ. YD.	APPROACH SLAB REMOVED		107	93	84
7	202	135	SQ. YD.	CONCRETE MEDIAN REMOVED		135		
8	202	1516	FOOT	GUARDRAIL REMOVED		238	1278	
9	202	8	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED		4	4	
10	203	7090	CU. YD.	EMBANKMENT			7090	
11	203	5049	CU. YD.	EXCAVATION		81	4968	
12	204	2670	SQ. YD.	SUBGRADE COMPACTION		487	2183	
13	301	187	CU. YD.	ASPHALT CONCRETE BASE, PG64-22		62	125	
14	304	503	CU. YD.	AGGREGATE BASE		81	385	37
15	SP 402	94	CU. YD.	ASPHALT CONCRETE FOR SHOULDERS			94	
16	407	198	GAL.	TACK COAT		38	160	
17	448	88	CU. YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22		17	71	
18	448	63	CU. YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22		12	51	
19	526	284	SQ. YD.	REINFORCED CONCRETE APPROACH SLABS		107	93	84
20	601	81	SQ. YD.	TIED CONCRETE BLOCK MAT, WITH TYPE 2 UNDERLAYMENT		81		
21	606	1318	FOOT	GUARDRAIL, TYPE MGS WITH LONG POSTS		140	1178	
22	606	8	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1		4	4	
23	607	288	FOOT	FENCE REMOVED AND REBUILT			288	
24	609	216	FOOT	CURB, TYPE 1		72	144	
25	609	135	SQ. YD.	4" CONCRETE MEDIAN		135		
26	611	4	EACH	CATCH BASIN ADJUSTED TO GRADE			4	
27	SP 614		LUMP	MAINTAINING TRAFFIC	LUMP SUM			
28	SP 614ZP	5352	HOURS	ZONE PERSON WITH ZONE VEHICLE	5352			
28A	614	8	EACH	WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL)	4	4		
29	614	5	EACH	REPLACEMENT SIGN	5			
30	614	200	SQ. FT.	SIGNING MISC.: ADDITIONAL SIGNS, GROUND MOUNTED	200			
31	615	62	SQ. YD.	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A		62		
31A	SP 622		LUMP	PORTABLE BARRIER (WITHOUT GLARE SCREEN)	LUMP SUM			
32	642	0.86	MILE	EDGE LINE, 6" TYPE 1		0.44	0.32	0.10
33	642	0.21	MILE	CENTER LINE, TYPE 1			0.16	0.05
34	659	5638	SQ. YD.	SEEDING AND MULCHING			5638	
35	659	652	CU.YD.	TOPSOIL			652	
36	832	7000	EACH	EROSION CONTROL		2000	5000	

TURNPIKE RAMP BRIDGE OVER S.R. 57 (M.P. 145.1) ESTIMATED QUANTITIES

REF.	ITEM	TOTAL	UNIT	ITEM DESCRIPTION
37	SP 202		LUMP	PORTIONS OF STRUCTURE REMOVED
38	SP 509	48252	POUND	EPOXY COATED REINFORCING STEEL
39	509	500	POUND	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL
40	511	155	CU. YD	CLASS QC2 CONCRETE, SUPERSTRUCTURE DECK SLAB
41	511	62	CU. YD	CLASS QC2 CONCRETE, BARRIERS AND PARAPETS, USING TYPE 1 CEMENT
42	511	24	CU. YD	CLASS QC2 CONCRETE, ABUTMENT SLABS
43	511	4	CU. YD	CLASS QC2 CONCRETE, FOR PREPLACEMENT TESTING
44	513	1560	EACH	WELDED SHEAR STUD CONNECTORS
45	513	10	EACH	TRIMMING OF BEAM END
45A	SP 514A		LUMP	PAINT REPAIR/FIELD TOUCH UP
46	SP 516A	9	FOOT	CRACK REPAIR USING EPOXY INJECTION
47	SP 516B	862	FOOT	SEALING OF CONSTRUCTION JOINTS
48	SP 516 G	20	EACH	REPLACE EXPANSION BEARING DEVICE
49	SP 519	442	SQ. FT.	PATCHING OF CONCRETE STRUCTURES
50	SP 527		LUMP	FALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES
51	SP 533	69	FOOT	3" CONTINUOUS STRIP SEAL IN STRUCTURAL STEEL JOINT
52	SP 533A	69	FOOT	1 1/2" ELASTOMERIC COMPRESSION SEAL IN STRUCTURAL STEEL JOINT
53	SP 536	308	SQ. YD.	CONCRETE WEATHERPROOFING, SUBSTRUCTURE
54	SP 536	765	SQ. YD.	CONCRETE WEATHERPROOFING, DECK, ABUTMENT SLABS, AND APPROACH SLABS

RACE ROAD BRIDGE OVER TURNPIKE (M.P. 149.2) ESTIMATED QUANTITIES

REF.	ITEM	TOTAL	UNIT	ITEM DESCRIPTION
55	SP 202		LUMP	PORTIONS OF STRUCTURE REMOVED
56	SP 509	52098	POUND	EPOXY COATED REINFORCING STEEL
57	509	500	POUND	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL
58	510	288	EACH	DOWEL HOLES WITH NON-SHRINK, NON-METALLIC GROUT
59	511	10	CU. YD	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING
60	511	166	CU. YD	CLASS QC2 CONCRETE, SUPERSTRUCTURE DECK SLAB
61	511	65	CU. YD	CLASS QC2 CONCRETE, BARRIERS AND PARAPETS, USING TYPE 1 CEMENT
62	511	20	CU. YD	CLASS QC2 CONCRETE, ABUTMENT SLABS
63	511	4	CU. YD	CLASS QC2 CONCRETE, FOR PREPLACEMENT TESTING
64	513	220	EACH	WELDED SHEAR STUD CONNECTORS
65	513	10	EACH	TRIMMING OF BEAM END
65A	SP 514A		LUMP	PAINT REPAIR/FIELD TOUCH UP
66	SP 516B	545	FOOT	SEALING OF CONSTRUCTION JOINTS
67	SP 516 G	20	EACH	REPLACE EXPANSION BEARING DEVICE
68	SP 516 J	15	EACH	REPLACE FIXED BEARING DEVICE
69	SP 519	241	SQ. FT.	PATCHING OF CONCRETE STRUCTURES
70	SP 527		LUMP	FALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES
71	SP 533	61	FOOT	3" CONTINUOUS STRIP SEAL IN STRUCTURAL STEEL JOINT
72	SP 533A	61	FOOT	1 1/2" ELASTOMERIC COMPRESSION SEAL IN STRUCTURAL STEEL JOINT
73	SP 536	392	SQ. YD.	CONCRETE WEATHERPROOFING, SUBSTRUCTURE
74	SP 536	866	SQ. YD.	CONCRETE WEATHERPROOFING, DECK, ABUTMENT SLABS, AND APPROACH SLABS
75	SP 607	425	FOOT	TYPE II FENCE, ALL ALUMINUM (6'-0" CHAIN LINK WITH SPECIALS)

STEARNS ROAD BRIDGE OVER TURNPIKE (M.P. 154.6) ESTIMATED QUANTITIES

REF.	ITEM	TOTAL	UNIT	ITEM DESCRIPTION
76	SP 202		LUMP	PORTIONS OF STRUCTURE REMOVED
77	SP 509	71062	POUND	EPOXY COATED REINFORCING STEEL
78	509	500	POUND	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL
79	510	324	EACH	DOWEL HOLES WITH NON-SHRINK, NON-METALLIC GROUT
80	511	19	CU. YD	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING
81	511	191	CU. YD	CLASS QC2 CONCRETE, SUPERSTRUCTURE DECK SLAB
82	511	111	CU. YD	CLASS QC2 CONCRETE, BARRIERS AND PARAPETS, USING TYPE 1 CEMENT
83	511	24	CU. YD	CLASS QC2 CONCRETE, ABUTMENT SLABS
84	511	4	CU. YD	CLASS QC2 CONCRETE, FOR PREPLACEMENT TESTING
85	513	666	EACH	WELDED SHEAR STUD CONNECTORS
86	513	10	EACH	TRIMMING OF BEAM END
86A	SP 514A		LUMP	PAINT REPAIR/FIELD TOUCH UP
87	SP 516B	983	FOOT	SEALING OF CONSTRUCTION JOINTS
88	SP 516 G	20	EACH	REPLACE EXPANSION BEARING DEVICE
89	SP 516 J	15	EACH	REPLACE FIXED BEARING DEVICE
90	SP 519	48	SQ. FT.	PATCHING OF CONCRETE STRUCTURES
91	SP 527		LUMP	FALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES
92	SP 533	72	FOOT	3" CONTINUOUS STRIP SEAL IN STRUCTURAL STEEL JOINT
93	SP 533A	72	FOOT	1 1/2" ELASTOMERIC COMPRESSION SEAL IN STRUCTURAL STEEL JOINT
94	SP 536	396	SQ. YD.	CONCRETE WEATHERPROOFING, SUBSTRUCTURE
95	SP 536	766	SQ. YD.	CONCRETE WEATHERPROOFING, DECK, ABUTMENT SLABS, AND APPROACH SLABS
96	SP 607	420	FOOT	TYPE I FENCE, ALL ALUMINUM (9'-0" CHAIN LINK WITH SPECIALS)

DESIGN AGENCY
CARPENTER MARTY Transportation
BRIDGE ENGINEERS • COLUMBUS, OHIO • KEYSTONE • CINCINNATI • CLEVELAND

NO.	REVISIONS	BY	DATE
1	ADDENDUM 1	JJL	11/16
2	ADDENDUM 2	JJL	11/28
3	ADDENDUM 6	STK	12/09

DESIGNED JJL
CHECKED KDW
DRAWN JJL
IN CHARGE TWG

GENERAL SUMMARY

PROJECT 43-23-03A
DATE: 08/06/21

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

Quantities_Revised.dwg; 12/12/22 - 10:38am

STRUCTURE - GENERAL NOTES

PROPOSED WORK

THE OHIO TURNPIKE RAMP BRIDGE OVER STATE ROUTE 57, RACE ROAD BRIDGE OVER THE OHIO TURNPIKE AND STEARNS ROAD BRIDGE OVER THE OHIO TURNPIKE SHALL BE REHABILITATED UNDER THIS CONTRACT. MAJOR WORK INCLUDES RAISING THE BRIDGE (MP 149.2 & MP 154.6), REPLACING THE BRIDGE DECK, ABUTMENT SLABS, BEARING DEVICES AND DECK JOINTS, MISCELLANEOUS PATCHING OF SUBSTRUCTURE, SEALING OF CONSTRUCTION JOINTS, PERFORMING CONCRETE WEATHERPROOFING, MAINTENANCE OF TRAFFIC, AND INSTALLING FENCING. DETAILS OF THIS WORK ARE SHOWN IN THE PLANS.

DESIGN SPECIFICATIONS

STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, DATED 2002, AND THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

THE CLASS OF CONCRETE AND THE GRADES OF REINFORCING STEEL FOR THE CONSTRUCTION ARE AS FOLLOWS:

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4,000 PSI (ABUTMENTS)
CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4,500 P.S.I. (SUPERSTRUCTURE)
REINFORCING STEEL - ASTM A615, A616, A617 - GRADE 60

DESIGN LOADING

HS20-44 CASE II AND THE ALTERNATE MILITARY LOADING

DECK PROTECTION METHOD

EPOXY COATED REINFORCING STEEL
2 ½" CONCRETE COVER

MONOLITHIC WEARING SURFACE

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES TO BE 1" THICK

PROTECTION OF TRAFFIC

THE CONTRACTOR SHALL SUBMIT A PLAN TO PROTECT THE TRAVELING PUBLIC FROM ALL REMOVAL DEBRIS AND/OR CONSTRUCTION MATERIAL THAT MAY COME IN CONTACT OR POSE A DANGER TO THE TRAVELING PUBLIC. SLURRY AND/OR WASTE SHALL NOT BE PERMITTED TO FLOW ONTO OPEN LANES OF TRAFFIC OR INTO STORM SEWERS. THE CONTRACTOR MAY PERFORM THE WORK DURING A WEEKEND, IN ACCORDANCE WITH SP 104. THE PLAN MUST BE SUBMITTED TO THE COMMISSION AND GOVERNING LOCAL AGENCIES PRIOR TO THE COMMENCEMENT OF ANY WORK.

UTILITIES

THE CONTRACTOR SHALL EXERCISE DUE CAUTION WHILE PERFORMING WORK ACTIVITIES AROUND EXPOSED UTILITIES. THE CONTRACTOR MUST ENSURE THAT THESE UTILITIES ARE NOT DAMAGED AS A RESULT OF WORK ACTIVITIES OR THE OPERATION OF EQUIPMENT, AND THE CONTRACTOR MAY BE REQUIRED TO PROVIDE TEMPORARY PROTECTIVE OR SUPPORT SYSTEMS IN ORDER TO PREVENT DAMAGE TO UTILITY LINES AND THEIR SUPPORTS DURING STRUCTURE REPAIR OPERATIONS. IF ANY UTILITIES ARE DAMAGED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE APPROPRIATE UTILITY OWNER(S).

EXISTING STRUCTURE VERIFICATION

DETAILS, DIMENSIONS, AND ELEVATIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND/OR FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO SECTION 501.02 OF THE SPECIFICATIONS AND OTIC INSTRUCTION TO BIDDERS ARTICLE 2.1 AND GENERAL CONDITIONS ARTICLE 1.5.

CONTRACT BID PRICES SHALL BE BASED UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, ALL PROJECT WORK SHALL BE BASED UPON ACTUAL DETAILS, DIMENSIONS, ELEVATIONS, AND SKEW ANGLES WHICH HAVE BEEN FIELD VERIFIED BY THE CONTRACTOR. THE STRUCTURAL STEEL AND STRUCTURAL STEEL DECK JOINTS SHALL NOT BE FABRICATED UNTIL ACTUAL DETAILS, DIMENSIONS, ELEVATIONS, AND SKEW ANGLES HAVE BEEN FIELD VERIFIED BY THE CONTRACTOR.

ANY ADDITIONAL COSTS RESULTING FROM VARIATIONS FROM PLAN DIMENSIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO ADDITIONAL PAYMENT OVER THE UNIT PRICE BID WILL BE AWARDED BY THE COMMISSION.

REMOVAL

GENERAL:

THE CONTRACTOR SHALL REMOVE THE DESIGNATED PORTIONS OF THE EXISTING STRUCTURE TO THE LIMITS SHOWN ON THE PLANS OR TO THE LIMITS AS DIRECTED BY THE ENGINEER. WHEN SO DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL WET DOWN THE CONCRETE THOROUGHLY DURING REMOVAL OPERATIONS TO PREVENT SPREAD OF DUST. ALL NECESSARY LABOR, EQUIPMENT AND MATERIAL SHALL BE PROVIDED BY THE CONTRACTOR AND INCLUDED WITH ITEM SP 202, PORTIONS OF STRUCTURE REMOVED, FOR PAYMENT.

CONCRETE REMOVAL:

CONCRETE SHALL BE REMOVED BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL EDGED TOOLS AND/OR BY SAW CUTTING THE CONCRETE DECKS AND REMOVING IN SECTIONS.

CARE SHALL BE TAKEN TO ENSURE AGAINST DAMAGE TO THE STEEL AND CONCRETE MEMBERS WHICH ARE TO BE RETAINED AND TO PRESERVE THE BOND OF THE RETAINED REINFORCEMENT TO THE EXISTING CONCRETE. THESE BARS SHALL BE CLEANED OF ALL CONCRETE FRAGMENTS AND FOREIGN MATTER. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH THE BARS; HAND TOOLS SHALL BE EMPLOYED FOR FINAL CLEANING. DAMAGED AREAS OF REINFORCEMENT THAT ARE TO REMAIN SHALL BE CUT AND STRESS TRANSFER ACCOMPLISHED BY EITHER A LAPPED OR MECHANICAL SPLICE. ANY ADDITIONAL REINFORCEMENT OR MECHANICAL SPLICES SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE COMMISSION. OTHER EXISTING REINFORCEMENT WITHIN THE REMOVAL LIMITS SHALL BE REMOVED AND DISPOSED OF.

DISPOSAL OF REMOVED MATERIAL:

THE CONTRACTOR SHALL NOT PERMIT ANY REMOVED MATERIAL TO DROP TO THE GROUND. MEANS SHALL BE PROVIDED FOR CATCHING REMOVED MATERIAL. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL DETAILS OF THE METHODS TO BE USED FOR REMOVING AND COLLECTING THE MATERIAL. ALL CONCRETE, STEEL, REINFORCING STEEL, ASPHALT, ETC. REMOVED FROM THE STRUCTURE, UNLESS SPECIFIED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED BY HIM FROM THE SITE.

UNDER NO CIRCUMSTANCES SHALL THE MATERIAL BE PERMITTED TO REMAIN ON THE PREMISES, RIGHT OF WAY OR STREETS PENDING DISPOSAL OF SAME OR FOR ANY OTHER PURPOSES, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

CUTTING OR BENDING OF REINFORCING BARS

ANY CUTTING OR BENDING OF BARS NECESSARY TO ACCOMMODATE ANY ESSENTIAL ELEMENT OF WORK RELATED TO THE PROJECT, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 509 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL AND/OR ITEM SP 509 EPOXY COATED REINFORCING STEEL UNLESS OTHERWISE NOTED.

DIMENSIONS

DIMENSIONS GIVEN ARE MEASURED HORIZONTALLY AND AT 60° F UNLESS OTHERWISE NOTED. DIMENSIONS GIVEN FOR THE EXISTING STRUCTURE ARE FROM THE ORIGINAL CONSTRUCTION PLANS. SOME VARIATION FROM PLAN DIMENSIONS ARE EXPECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER FIT-UP BETWEEN THE PROPOSED AND EXISTING CONSTRUCTION. ADEQUATE MEASUREMENTS SHALL BE MADE IN THE FIELD PRIOR TO THE FABRICATION OR INSTALLATION OF ANY PART TO ENSURE THAT ALL PARTS CAN BE PROPERLY ASSEMBLED AS SPECIFIED IN THE PLANS. ANY ADDITIONAL COST RESULTING FROM VARIATIONS FROM PLAN DIMENSIONS IS THE RESPONSIBILITY OF THE CONTRACTOR AND NO ADDITIONAL PAYMENT WILL BE AWARDED BY THE COMMISSION.

REPAIR OF EXISTING CONCRETE ELEMENTS

EXISTING REINFORCED CONCRETE STRUCTURE ELEMENTS WHICH ARE INCORPORATED IN THIS CONSTRUCTION PROJECT ARE TO BE MODIFIED AND/OR REPAIRED. A CONDITION SURVEY WAS PERFORMED IN NOVEMBER 2020. REPAIR AREAS WERE DETERMINED BY VISUAL INSPECTION. THE STRUCTURAL ELEMENTS INSPECTED INCLUDE CONCRETE ABUTMENTS AND PIERS (EXPOSED SURFACES ONLY). THE RECORDS OF THIS INSPECTION ARE THE BASIS FOR THE REPAIR RECOMMENDATIONS AS DETAILED IN THE PLANS.

ITEM 509 - REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE COMMISSION WILL MEASURE THE REPLACEMENT REINFORCING STEEL BY THE NUMBER OF POUNDS ACCEPTED IN PLACE. AN ESTIMATED QUANTITY OF 100 POUNDS HAS BEEN INCLUDED FOR THIS WORK. REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY REMOVAL OPERATIONS WITH NEW EPOXY COATED REINFORCING STEEL OF THE SAME SIZE AT NO COST TO THE COMMISSION.

ITEM SP 536 - CONCRETE WEATHERPROOFING

ITEM SP 536 - CONCRETE WEATHERPROOFING SHALL BE APPLIED TO THE FOLLOWING NEW EXPOSED CONCRETE SURFACES OF THE BRIDGE:

- THE TOP OF NEW ABUTMENT SLABS AND NEW SUPERSTRUCTURE SLABS.
- ALL DECK SLAB SIDE EDGES.
- THE BOTTOM SURFACE OF THE NEW SUPERSTRUCTURE SLAB FROM THE SLAB SIDE EDGE TO THE EXTERIOR STRINGER FLANGE.
- ALL EXPOSED CONCRETE SURFACES OF ALL ABUTMENTS AND PIERS. SEALING SHALL NOT BE DONE UNTIL ALL CONCRETE PATCHING REPAIRS HAVE BEEN COMPLETED AND CURED.

CARE SHALL BE TAKEN NOT TO APPLY WEATHERPROOFING ON CONSTRUCTION JOINT SURFACES, SURFACES TO RECEIVE JOINT SEALER OR FASCIA BEAM PAINT.

CONCRETE PARAPETS

PARAPET FORMS:

FORMS FOR THE BRIDGE PARAPETS AND SLAB EDGES SHALL BE IN ACCORDANCE WITH 508.02 OF THE SPECIFICATIONS AND THE FOLLOWING:

WHEN WOOD FORMS ARE USED THEY SHALL PROVIDE A SMOOTH SURFACE OF UNIFORM TEXTURE AND COLOR SUBSTANTIALLY EQUAL TO THAT WHICH WOULD BE OBTAINED WITH THE USE OF NEW PLYWOOD CONFORMING TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY PRODUCT STANDARD PSI FOR EXTERIOR B-B CLASS I PLYWOOD.

FORMS SHALL BE OF A CONSTRUCTION WHICH WOULD ALLOW FOR THEIR REMOVAL WITHIN 24 HOURS OF THE CONCRETE PLACEMENT WITHOUT CAUSING DAMAGE TO THE CONCRETE.

CONSTRUCTION JOINTS

CONSTRUCTION JOINTS SURFACES SHALL BE FREE FROM OIL, LAITANCE, FORM RELEASE AGENT, OR ANY OTHER MATERIAL THAT WOULD PREVENT BONDING TO THE CONCRETE SURFACE. ALL LAITANCE AND OTHER CONTAMINANTS SHALL BE REMOVED BY HIGH PRESSURE WATER BLASTING WITH A MINIMUM PRESSURE OF 5,000 P.S.I. HOWEVER, WATER BLASTING SHALL NOT BE REQUIRED WHERE EXISTING CONCRETE HAS BEEN ROUGHENED BY JACKHAMMERS DURING CONCRETE REMOVAL OPERATIONS. SURFACES SHALL BE THOROUGHLY DRENCHED WITH CLEAN WATER AND ALLOWED TO DRY TO A DAMP CONDITION FREE OF STANDING WATER BEFORE PLACING CONCRETE. PREPARATION OF CONSTRUCTION JOINT SURFACES SHALL NOT BE MEASURED FOR PAYMENT. THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT PRICE OF THE PERTINENT CONCRETE ITEMS.

EXISTING RIGHT OF WAY FENCE

IT IS THE INTENT OF THE PROJECT FOR THE EXISTING RIGHT OF WAY FENCE NEAR THE BRIDGE TO REMAIN, HOWEVER IF THE CONTRACTOR DEEMS IT NECESSARY TO REMOVE THE FENCE FOR HIS OPERATIONS AS APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL CAREFULLY REMOVE THE FENCE AND REINSTALL THE FENCE IN ACCORDANCE WITH ITEM 607. IF THE FENCE BECOMES DAMAGED DUE TO THE CONTRACTORS OPERATIONS THE FENCE SHALL BE REPLACED AT NO COST TO THE COMMISSION.

ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE GRANTED.

EROSION CONTROL

IT IS THE INTENT OF THE PROJECT TO NOT DISTURB ANY SEEDED AREAS AND/OR DRAINAGE ELEMENTS. ANY WORK INVOLVING SEEDED AREAS, DRAINAGE ELEMENTS OR EROSION CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT COST AND SHALL BE REPAIRED/PROTECTED AS DIRECTED BY THE ENGINEER.

ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE GRANTED.

ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS.

SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05.

IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE DECK FOR THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH C&MS 512.07. THE COMMISSION WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE COMMISSION WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS.

THE COMMISSION WILL MEASURE THIS WORK ON A LUMP SUM BASIS.

THE COMMISSION WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE ,AS PER PLAN.

RACE ROAD BRIDGE TO BE RAISED 9"

STEARNS ROAD BRIDGE TO BE RAISED 1'-5⅝"

ASBESTOS

AN ASBESTOS SURVEY OF THE THREE BRIDGES DETERMINED THAT NO ASBESTOS IS PRESENT.

ITEM 513 - TRIMMING OF BEAM END

ABUTMENT BEAM ENDS ARE TO BE TRIMMED TO PROVIDE A 3 INCH CLEARANCE FROM THE BACKWALL. ALL WORK SHALL MEET APPROVAL OF THE ENGINEER.

FOLLOWING BEAM END TRIMMING, PAINT THE NEWLY EXPOSED BEAM END PER SP 514A. PAYMENT FOR PAINTING TO BE INCLUDED WITH ITEM 514A - PAINT REPAIR/FIELD TOUCH UP.

1

DESIGN AGENCY
CARPENTER MARTY Transportation
830 E. MAIN STREET, SUITE 200 COLUMBUS, OHIO 43205
PHONE: (614) 228-1883 FAX: (614) 228-1884

NO.	REVISIONS	BY	DATE
1	ADDENDUM 6	STK	12/09
-	-	-	-
-	-	-	-

DESIGNED	CHECKED
MTJ	STK
DRAWN	IN CHARGE
MTJ	WHM

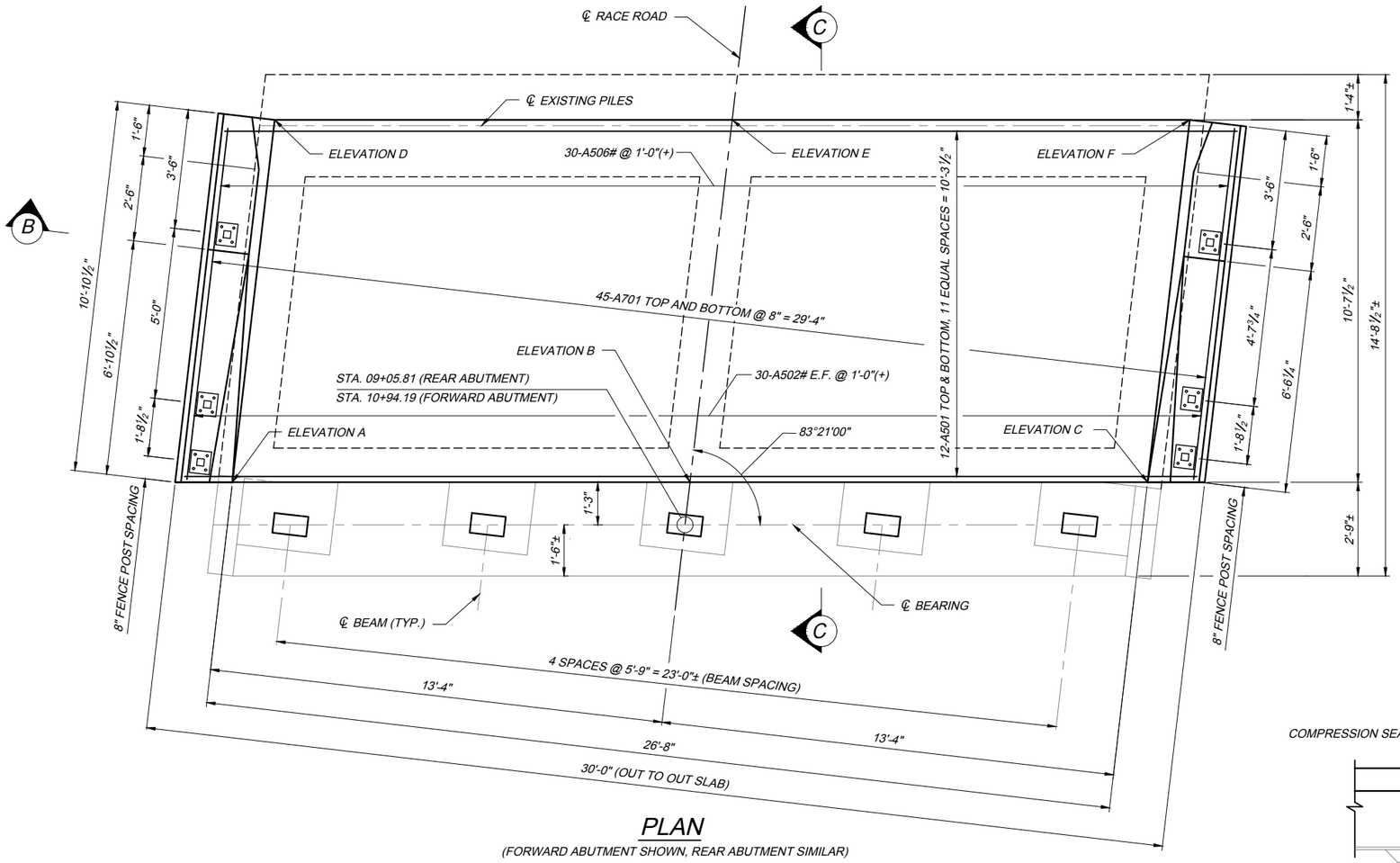
GENERAL NOTES

PROJECT 43-23-03A
DATE: 8/6/21

1 / 1

26 / 70

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

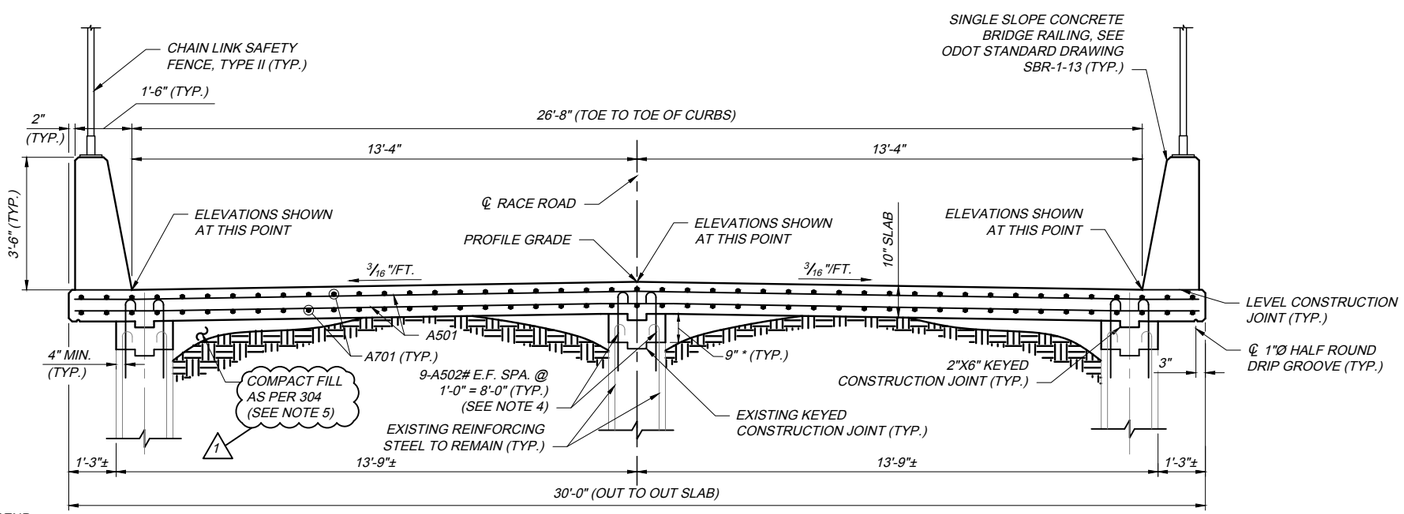


PLAN

(FORWARD ABUTMENT SHOWN, REAR ABUTMENT SIMILAR)

FINAL ELEVATIONS

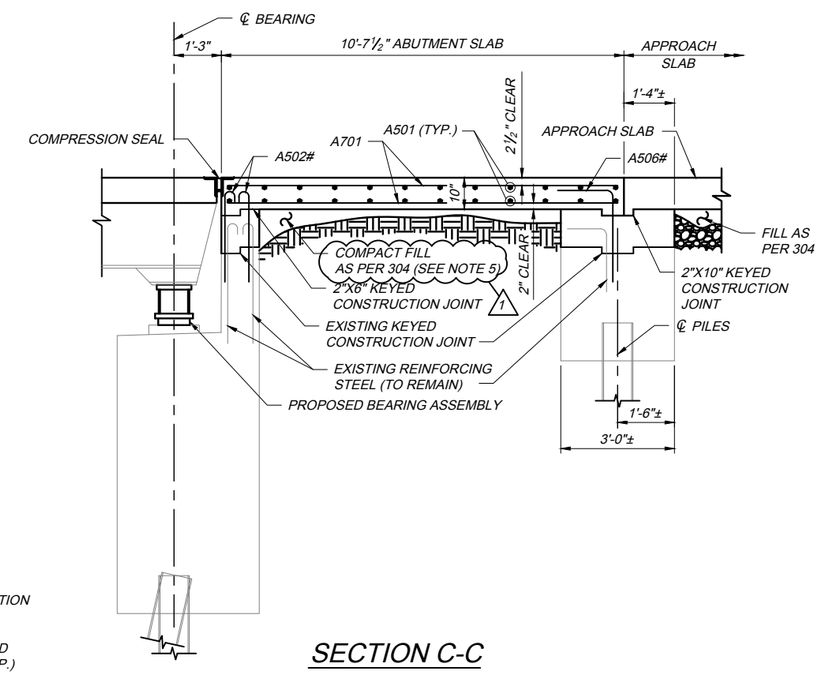
POINT	REAR ABUTMENT	FORWARD ABUTMENT
A	748.96	748.96
B	749.15	749.15
C	748.92	748.92
D	748.81	748.81
E	749.00	749.00
F	748.77	748.76



SECTION B-B

LEGEND

E.F. - EACH FACE
- BAR TO BE DOWELED INTO EXISTING STRUCTURE
* - DIMENSION TO BE FIELD VERIFIED



SECTION C-C

NOTES:

1. FOR CHAIN LINK FENCE DETAILS SEE OTIC STANDARD DRAWING CL-2.
2. FOR DECK JOINT DETAILS SEE OTIC STANDARD DRAWINGS DJ-1, DJ-2 AND DJ-5.
3. MINIMUM EMBEDMENT DEPTH: #5 BAR - 8"
4. CONTRACTOR TO ADJUST BAR AS NECESSARY DUE TO VARIABLE HAUNCH IN BRIDGE DECK.
5. PAYMENT FOR ADDITIONAL FILL UNDER ABUTMENT SLAB TO BE PAID FOR UNDER ITEM 304.

DESIGN AGENCY: CARPENTER MARTY Transportation

NO.	REVISIONS	BY	DATE
1	ADDENDUM 6	STK	12/09
-	-	-	-
-	-	-	-

DESIGNED MTJ | CHECKED ERK | IN CHARGE STK
DRAWN MTJ

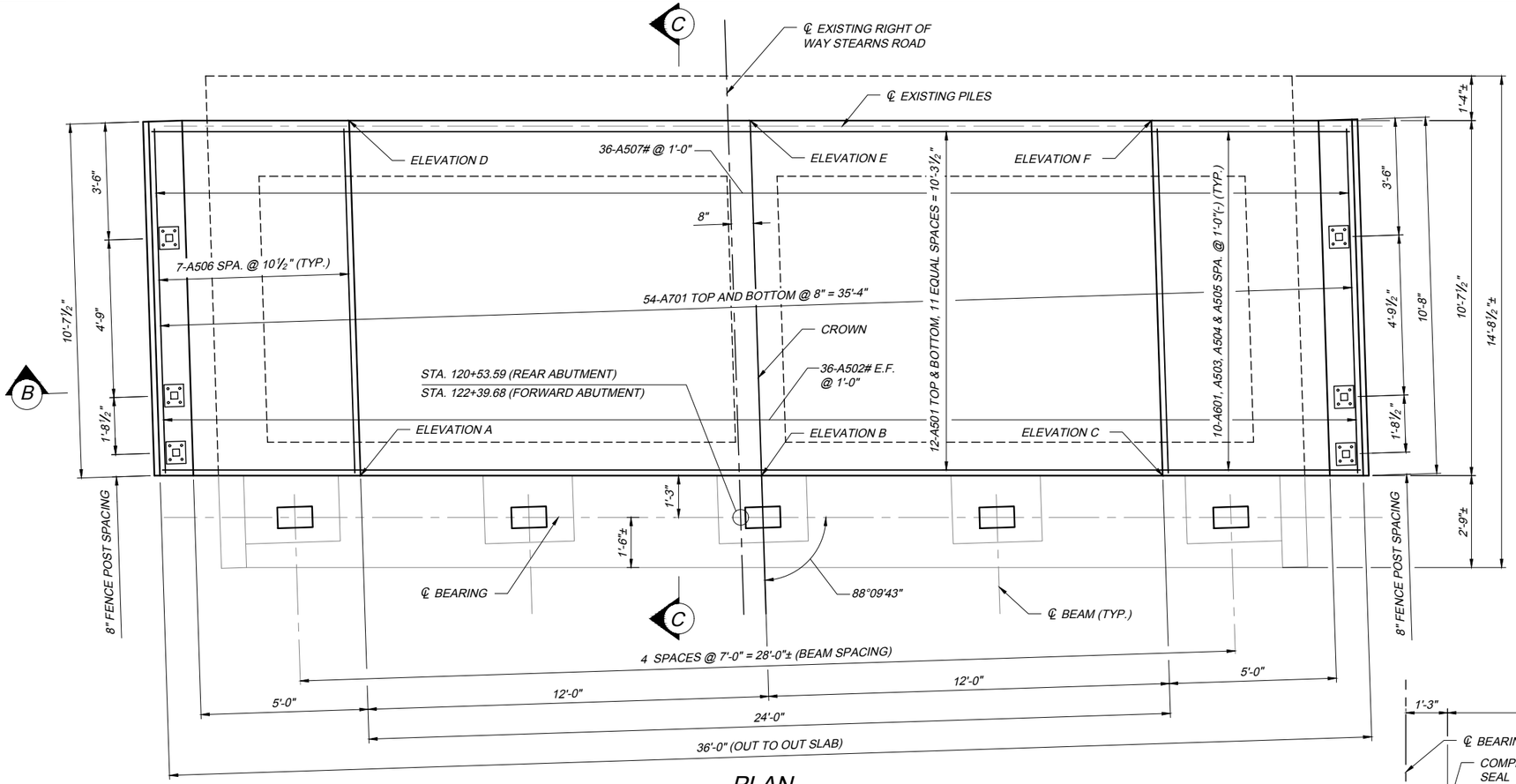
ABUTMENT SLAB DETAILS
RACE ROAD OVER OHIO TURNPIKE
LORAIN COUNTY
M.P. 149.2

PROJECT 43-23-03A
DATE: 8/6/21

7 / 15

48 / 70

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

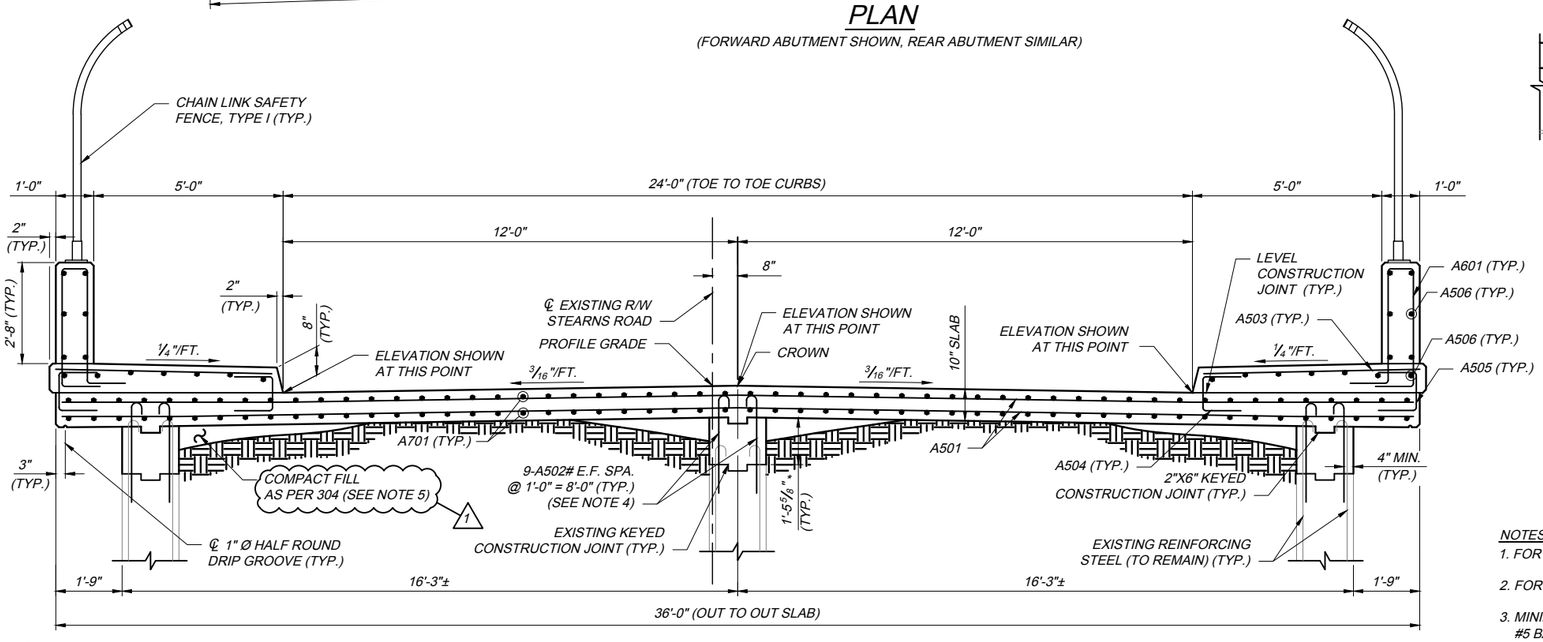


PLAN

(FORWARD ABUTMENT SHOWN, REAR ABUTMENT SIMILAR)

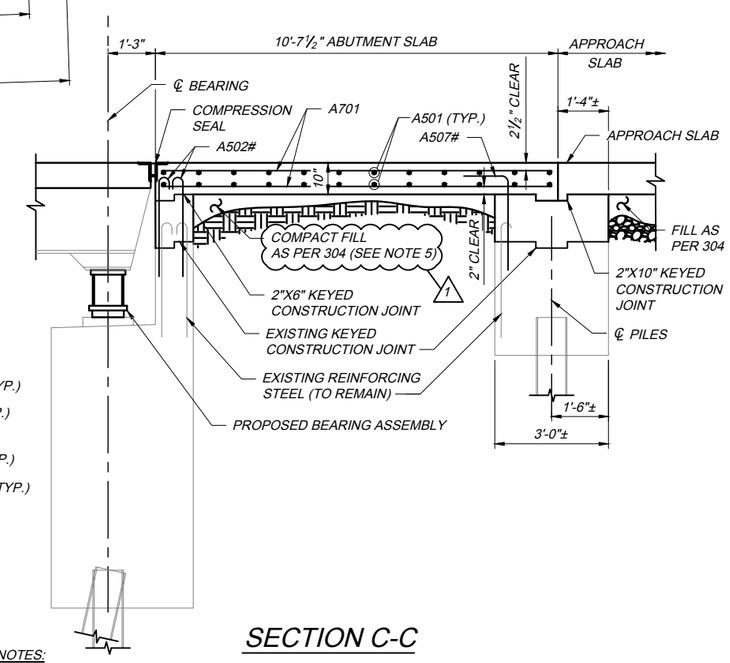
FINAL ELEVATIONS

POINT	REAR ABUTMENT	FORWARD ABUTMENT
A	811.73	811.73
B	811.92	811.92
C	811.73	811.73
D	811.63	811.63
E	811.82	811.82
F	811.64	811.64



SECTION B-B

LEGEND
- BAR TO BE DOWELED INTO EXISTING STRUCTURE
* - DIMENSION TO BE FIELD VERIFIED
E.F. - EACH FACE



SECTION C-C

NOTES:

1. FOR CHAIN LINK FENCE DETAILS SEE OTIC STANDARD DRAWING CL-1.
2. FOR DECK JOINT DETAILS SEE OTIC STANDARD DRAWINGS DJ-1, DJ-2, DJ-3 AND DJ-5.
3. MINIMUM EMBEDMENT DEPTH: #5 BAR - 8"
4. CONTRACTOR TO ADJUST BAR AS NECESSARY DUE TO VARIABLE HAUNCH IN BRIDGE DECK.
5. PAYMENT FOR ADDITIONAL FILL UNDER ABUTMENT SLAB TO BE PAID FOR UNDER ITEM 304.

DESIGN AGENCY: CARPENTER MARTY TRANSPORTATION

NO.	REVISIONS	BY	DATE
1	ADDENDUM 6	STK	12/09
-	-	-	-
-	-	-	-

DESIGNED MTJ | CHECKED STK | IN CHARGE WHM | DRAWN MTJ

ABUTMENT SLAB DETAILS
STEARNS ROAD OVER OHIO TURNPIKE
CUYAHOGA COUNTY
M.P. 154.6

PROJECT 43-23-03A
DATE: 8/6/21

6 / 14

62 / 70

OHIO TURNPIKE

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION