ITEM 614, MAINTAINING TRAFFIC

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 100 CONSECUTIVE CALENDAR DAYS THAT THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 7. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $5,000 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT. DETOURS SHALL BE ESTABLISHED, MAINTAINED AND SUBSEQUENTLY REMOVED BY THE STATE OF OHIO.

THE FIRST DAY THAT THE DETOUR IS IN EFFECT SHALL BE CONSIDERED THE STARTING DATE OF THE 100th DAY DETOUR/CLOSURE LIMITATION. THE 100th DAY OF THE 100th DAY DETOUR/CLOSURE LIMITATION SHALL BE CONSIDERED AS AN INTERIM COMPLETION DATE. ON OR BEFORE THE 100th DAY, THE ROADWAY SHALL BE OPENED TO THE SAFE AND CONVENIENT USE OF THE TRAVELING PUBLIC. IF THE ROADWAY IS NOT OPENED BY THIS INTERIM COMPLETION DATE, DISINCENTIVES SHALL BE ASSESSED AS PER THE ABOVE SPECIFICATION.

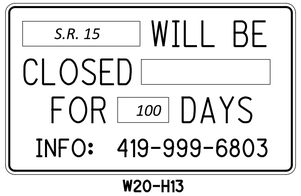
ACCESS TO ADJACENT PROPERTY WITH THE WORK LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR AT ALL TIMES AS PER 614.02(a).

NOTICE OF CLOSURE SIGNS (W20-H13), SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED CLOSURES. THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE.

NOTICE OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>= 2 WKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HRS & < 2 WKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HRS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION.



W20-H13

NOTE: THE CONTRACTOR IS TO SUPPLY THE DATE

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HRS & < 2 WKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HRS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES AND RESTRICTIONS	>= 2 WKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

DESIGNATED LOCAL DETOUR ROUTE

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTE, A LOCAL ROUTE HAS BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL DETOUR ROUTE." THIS ROUTE SHOWN ON THE DETOUR SHEET. DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST, AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER. THE REPLACEMENT PAVEMENT FOR ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 AND ITEM 407, TACK COAT PLACED ON 5" OF ITEM 301, ASPHALT CONCRETE BASE, PG64-22

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR USE AS DETERMINED BY THE ENGINEER TO MAINTAIN AND SUBSEQEUNTLY RESTORE THE DESIGNATED LOCAL DETOUR ROUTE.

ITEM 253 - PAVEMENT REPAIR = 20 CY

ITEM 407 - TACK COAT = 20 GAL

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 = 10 CY

ITEM 617 - COMPACTED AGGREGATE = 50 CY

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

LOCATION OF THE PORTABLE CHANGEABLE MESSAGE SIGN TO BE PROVIDED BY THE ENGINEER. THE INTENT IS FOR THE PCMS TO BE USED IN ADVANCE OF THE PROJECT AREA TO GET TRAFFIC TO FOLLOW THE DETOUR.

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 4 SIGN MONTH ASSUMING 1 PCMS SIGN FOR 4 MONTHS

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY

DESIGNER MJS

REVIEWER MJM 07-17-23

PROJECT ID 105148

SHEET P.6 TOTAL 33

DEF-15-12.86

STATE DETOUR MAP - DEF-15-12.86

SCALE IN MILES

0 1 2 3 4

N

LEGEND

PROJECT LOCATION

OFFICIAL SIGNED DETOUR

DESIGNATED LOCAL DETOUR

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY

DESIGNER MJS

REVIEWER MJM 07-17-23

PROJECT ID 105148

SHEET P.7 TOTAL 33

DEF-15-12.86

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/8/2023 TIME: 8:40:33 AM USER: msiefker

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SHEET NUM.			PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
6	10	23	01/BRO/13						
								ROADWAY	
			LS	201	11000	LS		CLEARING AND GRUBBING	4
	1,170		1,170	202	23000	1,170	SY	PAVEMENT REMOVED	
	649		649	202	38000	649	FT	GUARDRAIL REMOVED	
			LS	202	98000	LS		REMOVAL MISC.: (DEBRIS CAUGHT ON BRIDGE PIERS)	5
	250		250	203	10000	250	CY	EXCAVATION	
	142		142	203	20000	142	CY	EMBANKMENT	
	1,541		1,541	204	10000	1,541	SY	SUBGRADE COMPACTION	
	0.12		0.12	209	15050	0.12	MILE	RESHAPING UNDER GUARDRAIL	
	450		450	606	15051	450	FT	GUARDRAIL, TYPE MGS, AS PER PLAN	4
	4		4	606	26150	4	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
	4		4	606	34601	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2, AS PER PLAN	4
			LS	623	50000	LS		PRECONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
			LS	623	51000	LS		POST CONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
	1		1	SPECIAL	69050000	1	EACH	MAILBOX SUPPORT	5
	1		1	SPECIAL	69050350	1	EACH	MAILBOX REMOVED AND RESET	5
								EROSION CONTROL	
	245		245	601	34200	245	CY	ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER	
	665		665	659	10000	665	SY	SEEDING AND MULCHING	
	0.09		0.09	659	20000	0.09	TON	COMMERCIAL FERTILIZER	
	3.59		3.59	659	35000	3.59	MGAL	WATER	
			10,000	832	30000	10,000	EACH	EROSION CONTROL	4
								DRAINAGE	
	90.4		90.4	605	31100	90.4	FT	AGGREGATE DRAINS	
								PAVEMENT	
	352		352	302	56000	352	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
	288		288	304	20000	288	CY	AGGREGATE BASE	
	221		221	407	20000	221	GAL	NON-TRACKING TACK COAT	
	119		119	441	70000	119	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
								ELECTRICAL	
			1	625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM	21
								TRAFFIC CONTROL	
	5		5	621	00100	5	EACH	RPM	
	5		5	621	54000	5	EACH	RAISED PAVEMENT MARKER REMOVED	
	20		20	626	00102	20	EACH	BARRIER REFLECTOR, TYPE 1 (BIDERECTIONAL)	
	12		12	626	00110	12	EACH	BARRIER REFLECTOR, TYPE 2 (BIDERECTIONAL)	
	76.5		76.5	630	03100	76.5	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
	6		6	630	85100	6	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
	6		6	630	86002	6	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
	0.24		0.24	642	00104	0.24	MILE	EDGE LINE, 6", TYPE 1	
	0.16		0.16	642	00300	0.16	MILE	CENTER LINE, TYPE 1	
	118		118	642	00700	118	FT	TRANSVERSE/DIAGONAL LINE, TYPE 1	5
								STRUCTURE OVER 20 FOOT SPAN (DEF-15-12.86)	
		LS	LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	22
		134	134	202	22900	134	SY	APPROACH SLAB REMOVED	
		LS	LS	503	21300	LS		UNCLASSIFIED EXCAVATION	
		76,642	76,642	509	10001	76,642	LB	EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN	21
		128	128	510	10000	128	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
		2	2	511	33500	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE	
		291	291	511	34446	291	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK	
		23	23	511	45710	23	CY	CLASS QC1 CONCRETE, ABUTMENT	

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER MJS

REVIEWER MJM 07-17-23

PROJECT ID 105148

SHEET P.8 TOTAL 33

DEF-15-12.86

SHEET NUM. 6	SHEET NUM. 10	SHEET NUM. 23	PART. 01/BRO/13	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
								STRUCTURE OVER 20 FOOT SPAN (DEF-15-12.86)	
		384	384	512	10100	384	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
		2,005	2,005	513	10201	2,005	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN	21
		3,405	3,405	513	20000	3,405	EACH	WELDED STUD SHEAR CONNECTORS	
		11,456	11,456	514	00050	11,456	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	
		11,456	11,456	514	00056	11,456	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT	
		11,456	11,456	514	00060	11,456	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT	
		11,456	11,456	514	00066	11,456	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT	
		18	18	514	00504	18	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL	
		10	10	514	10000	10	EACH	FINAL INSPECTION REPAIR	
		10	10	514	27702	10	EACH	FIELD PAINTING, MISC.: COATING OF BEAM ENDS	21
		72	72	516	10010	72	FT	ARMORLESS PREFORMED JOINT SEAL	
		21	21	516	13900	21	SF	2" PREFORMED EXPANSION JOINT FILLER	
		252	252	516	25000	252	SF	NYLON REINFORCED NEOPRENE SHEETING	
		10	10	516	44101	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (10"X16"X2.043")	31
		10	10	516	44101	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (16"X17"X3.0")	31
		LS	LS	516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	21
		468	468	517	70100	468	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)	
		LS	LS	518	21230	LS		POROUS BACKFILL WITH GEOTEXTILE FABRIC	
		442	442	SPECIAL	51822300	442	FT	STEEL DRIP STRIP	29
		72	72	518	40000	72	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
		52	52	518	40010	52	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
			4	519	11101	4	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	22
		216	216	526	25011	216	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN	21
		72	72	526	90030	72	FT	TYPE C INSTALLATION	
			8	843	50000	8	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	
								MAINTENANCE OF TRAFFIC	
20			20	253	02000	20	CY	PAVEMENT REPAIR	
20			20	407	10000	20	GAL	TACK COAT	
10			10	441	70000	10	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
4			4	614	18601	4	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	6
50			50	617	10100	50	CY	COMPACTED AGGREGATE	
								INCIDENTALS	
LS			LS	614	11000	LS		MAINTAINING TRAFFIC	
3			3	619	16010	3	MNTH	FIELD OFFICE, TYPE B	
LS			LS	623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	22
LS			LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER MJS

REVIEWER MJM 07-17-23

PROJECT ID 105148

SHEET P.9 TOTAL 33

DEF-15-12.86

DESCRIPTION	STATION		LENGTH	WIDTH	AREA	ROADWAY 202	ROADWAY 204	PAVEMENT 302	PAVEMENT 304		PAVEMENT 407	PAVEMENT 441		SPECIAL 690	SPECIAL 690
						PAVEMENT REMOVED	SUBGRADE COMPACTION	ASPHALT CONCRETE BASE, PG64-22, (449) T=10"	6" AGGREGATE BASE	8" AGGREGATE BASE	NON-TRACKING TACK COAT	APSHLAT CONCRETE SURFACE COURSE, TYPE 1, (449), PG 64-22 T=3"	ASHPALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22, SAFETY EDGE	MAILBOX SUPPORT	MAILBOX REMOVE AND RESET
	FROM	TO	FT	FT	SY	SY	SY	CY	CY	CY	GAL	CY	CY	EACH	EACH
FULL DEPTH TRANSITION SECTION	678+50.00	678+94.89	44.9	34.1	170.1	160.0	185.1	48.9	30.6	4.4	30.8	14.2	0.1		
FULL DEPTH TRANSITION SECTION	678+94.89	679+02.90	8.0	34.9	31.0	28.5	33.7	8.9	5.6	0.8	5.7	2.6	0.0		
FULL DEPTH TRANSITION SECTION	679+02.90	679+93.28	93.4	36.0	373.6	320.9	400.4	106.0	66.2	9.1	67.0	47.8	0.3		
REAR APPROACH SLAB	679+93.28	680+20.28	27.0	36.0	108.0	13.4	108.3		17.1	1.2					
FORWARD APPROACH SLAB	682+44.87	682+71.87	27.0	36.0	108.0	15.8	108.3		17.1	1.2					
FULL DEPTH TRANSITION SECTION	682+71.87	683+07.47	35.6	36.0	142.4	136.2	161.6	42.8	26.5	3.7	27.1	12.4	0.1		
FULL DEPTH TRANSITION SECTION	683+07.47	683+49.62	42.2	36.4	170.1	168.4	185.1	48.9	30.6	4.2	30.8	14.2	0.1		
FULL DEPTH TRANSITION SECTION	683+49.62	683+75.00	25.4	37.2	105.0	105.0	113.5	30.1	18.6	2.5	19.0	8.7	0.1		
2ND. STREET FULL DEPTH PAVEMENT REPAIR			72.1	VARIES	221.5	221.5	244.8	66.6	40.4	8.0	40.6	18.5	0.2	1	1
					SUBTOTALS	1169.7	1540.8	352.2	252.7	35.1	221.0	118.4	0.9	1	1
					TOTALS CARRIED TO GENERAL SUMMARY	1170	1541	352	288		221	119		1	1

EARTHWORK QUANTITIES	203 EXCAVATION	203 EMBANKMENT	659 SEEDING AND MULCHING
SHEET	CY	CY	SY
15	83	51	218
16	68	43	204
17	81	47	206
18	18	1	37
TOTALS CARRIED TO THE GENERAL SUMMARY	250	142	665

PAVEMENT MARKINGS AND SIGNS				621 RPM	621 RAISED PAVEMENT MARKER REMOVED	630 GROUND MOUNTED SUPPORT, NO. 3 POST		630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	642 EDGE LINE, 6", TYPE 1	642 CENTER LINE, (DOUBLE SOLID), YELLOW	642 TRANSVERSE DIAGONAL LINE, TYPE 1
REFERENCE NO.	SHEET NO.	STATION FROM	STATION TO	EACH	EACH	FT	FT	EACH	EACH	MILE	MILE	FT
S-1	19	678+69.89				13.5	14	1	2			
S-2	19	680+16.56				12		1	1			
S-3	19	680+16.56						1				
S-4	19	682+47.03				12		1	1			
S-5	19	683+80.10				12.5		1	1			
S-6	19	684+32.42				12.5		1	1			
		678+50.00	683+00.00	3	3					0.17	0.09	
		683+00.00	685+00.00	2	2					0.07	0.07	117.8
TOTALS CARRIED TO THE GENERAL SUMMARY				5	5	76.5		6	6	0.24	0.16	118

SEEDING AND MULCHING CALCULATIONS			
659	SEEDING AND MULCHING	665	SY
659	COMMERCIAL FERTILIZER (665)(9)(1/1000)(30)(1/2000)	0.09	TON
659	WATER (2)(665)(9)(1/1000)(300)(1/1000)	3.59	M GAL
TOTALS CARRIED TO GENERAL SUMMARY			

AGGREGATE DRAINS		605 AGGREGATE DRAINS
SIDE	STATION	FT
RT.	678+50.00	9.9
RT.	678+75.00	8.6
RT.	679+00.00	7.3
RT.	679+25.00	7.3
RT.	679+50.00	7.3
RT.	679+75.00	7.5
LT.	682+75.00	7.5
RT.	683+00.00	7.5
LT.	683+25.00	9
RT.	683+50.00	8.5
LT.	683+75.00	10
TOTAL CARRIED TO THE GENERAL SUMMARY		90.4

EROSION CONTROL			601 ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER
REFERENCE NO.	STATION FROM	STATION TO	CY
EC-1	680+21.50	680+67.20	138
EC-2	682+8.50	682+43.80	107
TOTALS CARRIED TO THE GENERAL SUMMARY			245

GUARDRAIL					202	209	606			626	
REFERENCE NO.	SHEET NO.	STATION FROM	STATION TO	SIDE	GUARDRAIL REMOVED	RESHAPING UNDER GUARDRAIL	GUARDRAIL, TYPE MGS, AS PER PLAN	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST -2, AS PER PLAN	BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)	BARRIER REFLECTOR, TYPE 2 (BIDIRECTIONAL)
					FT	MILE	FT	EACH	EACH	EACH	EACH
GR - 1	11	678+53.27	680+15.77	LT	183.0	0.03	112.5	1	1		3
GR - 2	11	678+53.27	680+15.77	RT	105.0	0.03	112.5	1	1		3
GR - 3	11	680+15.77	482+49.71	LT						10	
GR - 4	11	680+15.77	682+49.71	RT						10	
GR - 5	11-12	682+49.71	684+59.45	LT	207.0	0.03	125.0	1	1		4
GR - 6	11-12	682+49.71	684+59.45	RT	154.0	0.03	100.0	1	1		3
TOTALS CARRIED TO THE GENERAL SUMMARY					649.0	0.12	450.0	4	4	20	13

SUBSUMMARY

DESIGN AGENCY

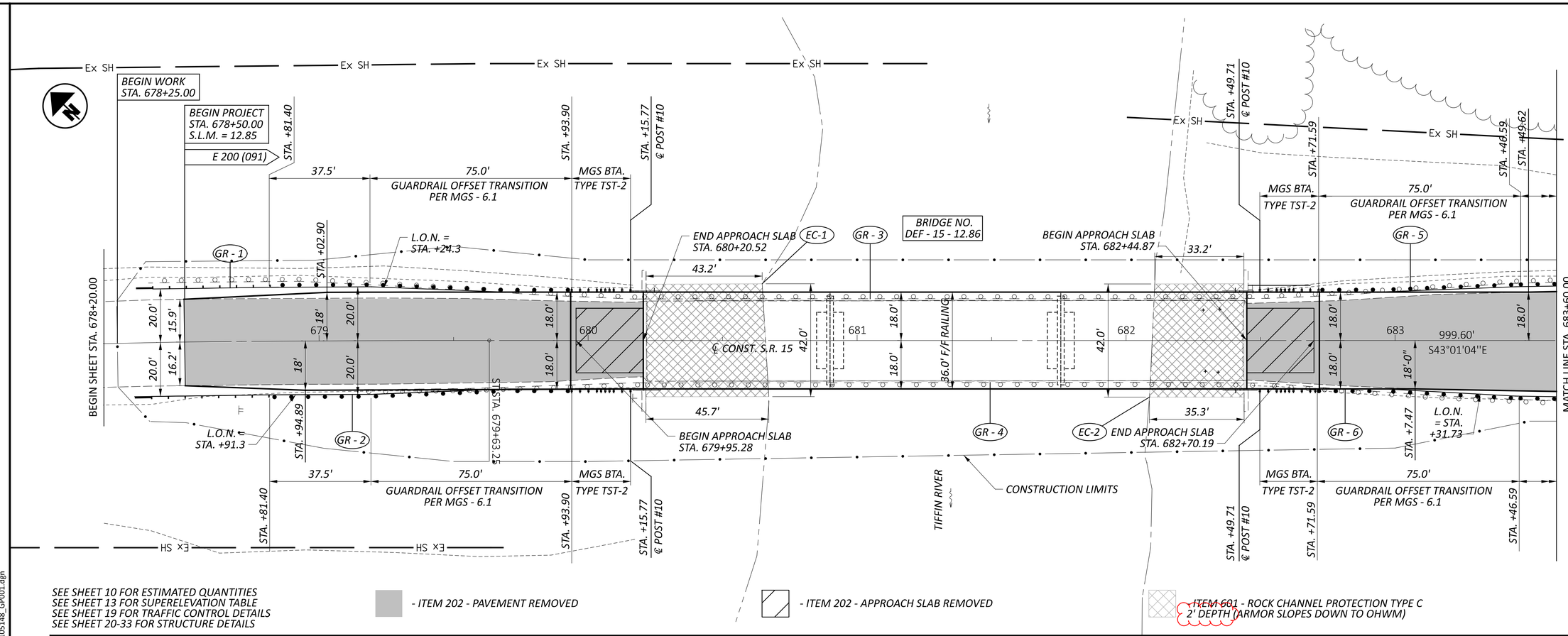
DESIGNER MJS

REVIEWER MJM 07-17-23

PROJECT ID 105148

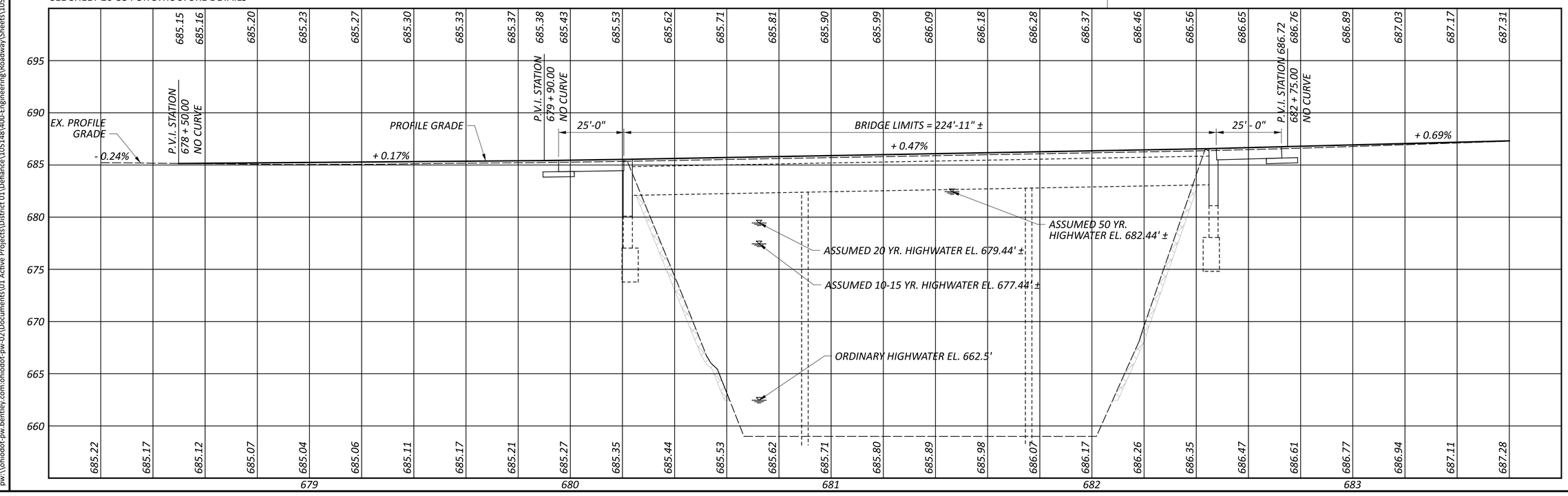
SHEET P.10 TOTAL 33

DEF-15-12.86



SEE SHEET 10 FOR ESTIMATED QUANTITIES
SEE SHEET 13 FOR SUPERELEVATION TABLE
SEE SHEET 19 FOR TRAFFIC CONTROL DETAILS
SEE SHEET 20-33 FOR STRUCTURE DETAILS

- ITEM 202 - PAVEMENT REMOVED
- ITEM 202 - APPROACH SLAB REMOVED
- ITEM 601 - ROCK CHANNEL PROTECTION TYPE C 2' DEPTH (ARMOR SLOPES DOWN TO OHWM)



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
STA. 678+20.00 TO STA. 683+60.00

DEF-15-12.86

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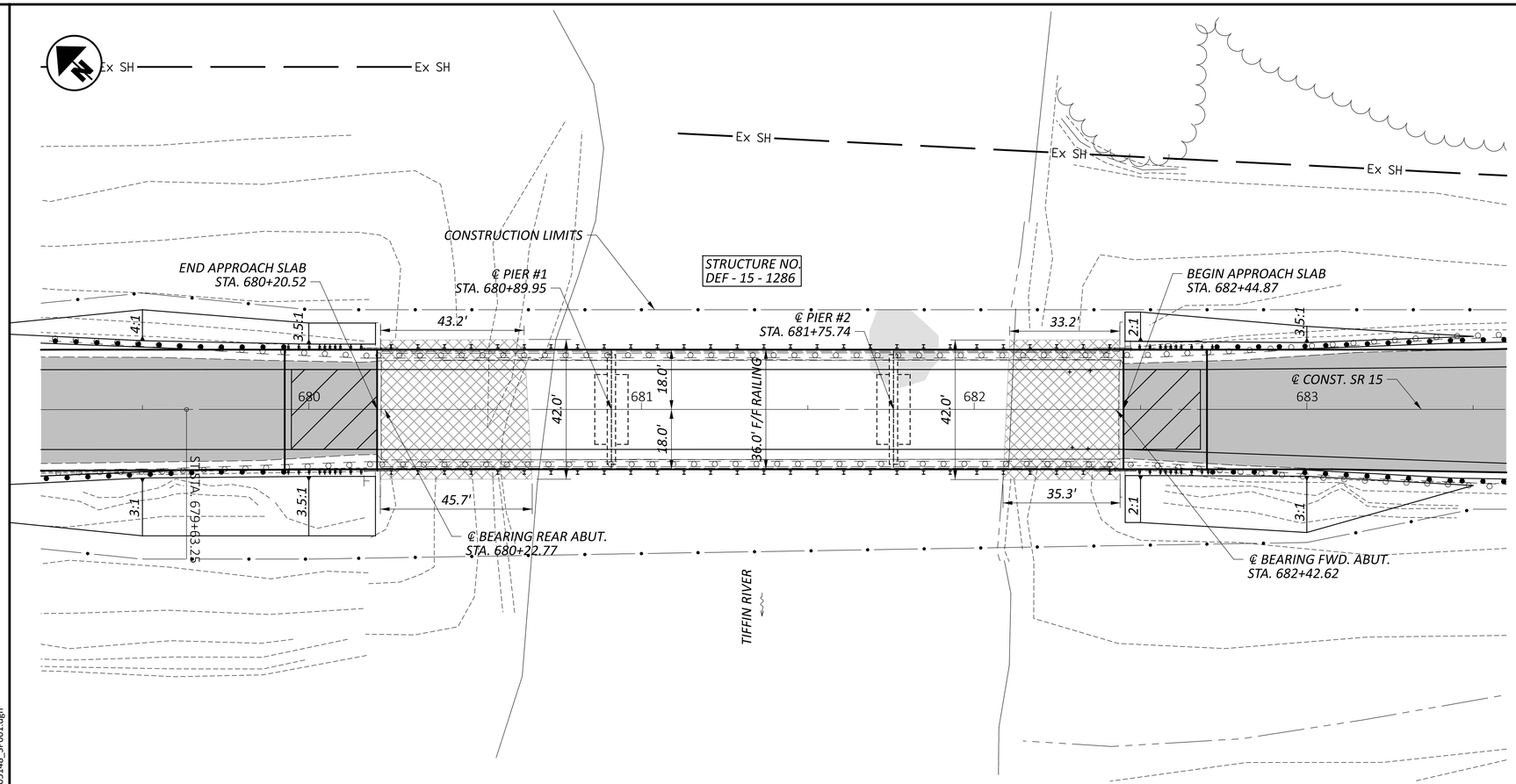
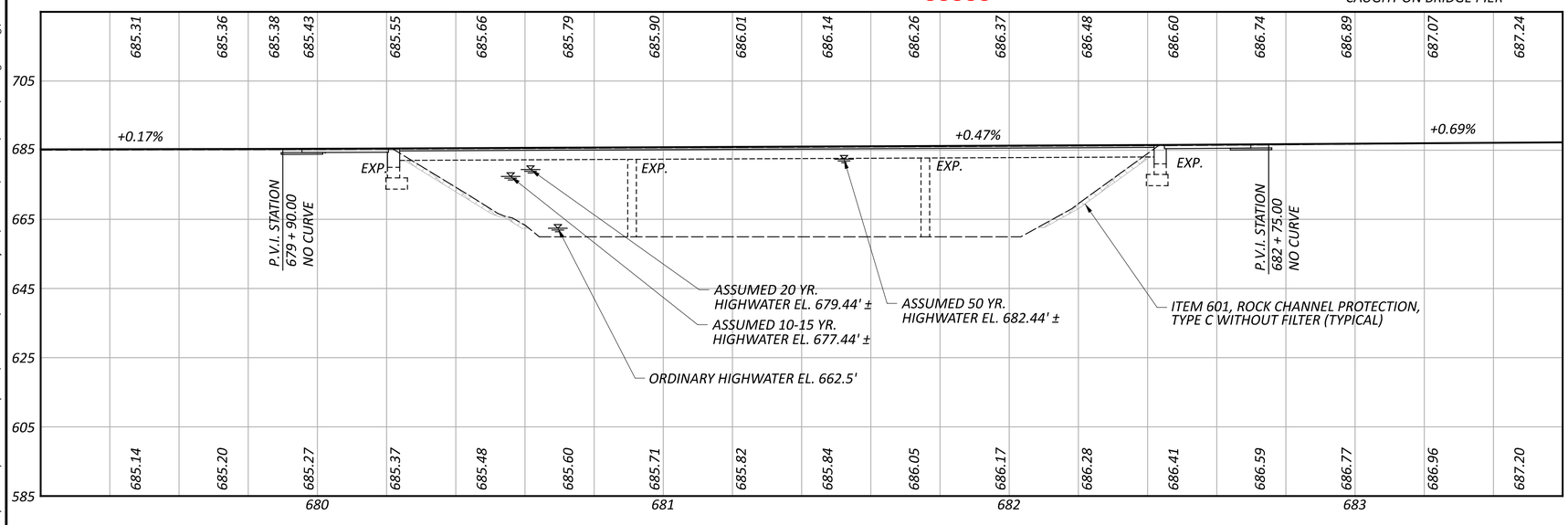
DESIGN AGENCY

DESIGNER MJS
REVIEWER MJM 07-17-23
PROJECT ID 105148
SHEET P.11 TOTAL 33



- ITEM 202 - PAVEMENT REMOVED
- ITEM 202 - APPROACH SLAB REMOVED
- ~~ITEM 601~~ - ROCK CHANNEL PROTECTION TYPE C - 2' DEPTH (ARMOR SLOPES DOWN TO OHWM)
- AREA OF DEBRIS REMOVAL, ITEM 202, REMOVAL MISC.: DEBRIS CAUGHT ON BRIDGE PIER



BENCHMARK DATA

BM #1 STA.	685+57	ELEV.	687.51	OFFSET	45.0'	RT.
BM #2 STA.	686+36	ELEV.	690.17	OFFSET	41.7'	LT.
BM #3 STA.	682+45	ELEV.	686.00	OFFSET	19.6'	RT.

NOTES

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

DESIGN TRAFFIC:

2024 ADT = 9,000 2024 ADTT = 810
2044 ADT = 9,200 2044 ADTT = 828
DIRECTIONAL DISTRIBUTION = 50%

HYDRAULIC DATA

DRAINAGE AREA = 798 SQ. MI.

STATIONING OF CENTER OF FIRST RAILING POST OFF THE BRIDGE

LOCATION:	STATION:
LT. REAR	680+15.77
RT. REAR	680+15.77
LT. FORWARD	682+49.71
RT. FORWARD	682+49.71

EXISTING STRUCTURE

TYPE: CONTINUOUS STEEL BEAMS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 67.2'±-85.8'±-66.9'± C/C BEARINGS
ROADWAY: 30'-0" ± F/F 2'-3"± SAFETY CURB
LOADING: CF=400 (57)
SKEW: NONE
WEARING SURFACE: 1.25" +/- MICRO SILICA MODIFIED CONCRETE OVERLAY
APPROACH SLABS: AS-1-54, 25'± LONG
ALIGNMENT: TANGENT
CROWN: 0.016± FT/FT
STRUCTURE FILE NUMBER: 2000482
DATE BUILT: 1963
DISPOSITION: TO BE REHABILITATED

PROPOSED STRUCTURE

TYPE: REPLACE BRIDGE DECK WITH COMPOSITE DECK. REPLACE APPROACH SLABS. REBUILD PORTIONS OF ABUTMENTS AND CONVERT TO SEMI-INTEGRAL.

SPANS: 67.2'±-85.8'±-66.9'± C/C BEARINGS
ROADWAY: 36' F/F TST-2-21 GUARDRAIL
LOADING: ACTUAL DESIGN: 83.4% HL-93 AND FUTURE WEARING SURFACE OF 0.000 KIPS/SF (NORMAL DESIGN CRITERIA: HL-93)

SKEW: NONE
WEARING SURFACE: 1" MONOLITHIC CONCRETE
APPROACH SLABS: 25' LONG (AS-1-15, AS-2-15)
ALIGNMENT: TANGENT
CROWN: 0.016 FT/FT
DECK AREA: 8118 SF

COORDINATES: LATITUDE 41° 18' 24.03" N
LONGITUDE 84° 23' 03.31" W

HORIZONTAL SCALE IN FEET
0 10 20 40

SITE PLAN
BRIDGE NO. DEF-15-12.86
SR 15 OVER TIFFIN RIVER

SFN 2000482
DESIGN AGENCY
DESIGNER MJS | CHECKER XXX
REVIEWER XXX MM-DD-YY
PROJECT ID 105148
SUBSET 1 | TOTAL 14
SHEET P.20 | TOTAL 33

DEF-15-12.86

ESTIMATED QUANTITIES

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	APPR. SLAB	ABUT.	PIERS	SUPER.	WING WALL	SEE STRUCTURE SHEET NO.
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN		LUMP		LUMP		3
202	22900	134	SQ YD	APPROACH SLAB REMOVED	134					
503	21300	LUMP		UNCLASSIFIED EXCAVATION		LUMP				
509	10001	76642	POUND	EPOXY COATED STEEL REINFORCING, AS PER PLAN		6320		70322		2
510	10000	128	EACH	DOWEL HOLES WITH NONSHRINK METALLIC GROUT		128				
511	33500	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE		2				
511	34446	291	CU YD	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK		26		265		
511	45710	23	CU YD	CLASS QC1 CONCRETE, ABUTMENT		21			2	
512	10100	384	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		44	212	109	19	
513	10201	2005	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN				2005		2
513	20000	3405	EACH	WELDED STUD SHEAR CONNECTORS				3405		
514	00050	11456	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL				11456		
514	00056	11456	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT				11456		
514	00060	11456	SF	FIELD PAINTING OF STRUCTURAL STEEL, INTERMEDIATE COAT				11456		
514	00066	11456	SF	FIELD PAINTING OF STRUCTURAL STEEL, FINISH COAT				11456		
514	00504	18	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL				18		
514	10000	10	EACH	FINAL INSPECTION REPAIR				10		
514	27702	10	EACH	FIELD PAINTING, MISC.: COATING OF BEAM ENDS		10				
516	10010	72	FT	ARMORLESS PREFORMED JOINT SEAL	72					
516	13900	21	SQ FT	2" PREFORMED EXPANSION JOINT FILLER		21				
516	25000	252	SQ FT	NYLON REINFORCED NEOPRENE SHEETING		252				
~~516~~	~~44101~~	~~10~~	~~EACH~~	~~ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (10"X16"X2.043"), AS PER PLAN~~		~~10~~				12
516	44101	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (16"x17"X3.0"), AS PER PLAN			10			12
516	47011	LUMP		JACKING AND TEMPORARY SUPPPORT OF SUPERSTRUCTURE, AS PER PLAN				LUMP		2
517	70100	468	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)				468		
518	21230	LUMP		POROUS BACKFILL WITH FILTER FABRIC		LUMP				
SPECIAL	51822300	442	FT	STEEL DRIP STRIP				442		10
518	40000	72	FT	6" PERFORATED CORRUGATED PLASTIC PIPE		72				
518	40010	52	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS		52				
519	11101	4	SQ FT	PATCHING OF CONCRETE STRUCTURE, AS PER PLAN		2			2	3
526	25011	216	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN	216					
526	90030	72	FT	TYPE C INSTALLATION	72					
843	50000	8	SQ FT	PATCHING OF CONCRETE STRUCTURE WITH TROWELABLE MORTAR		4	4			

ESTIMATED QUANTITIES
BRIDGE NO. DEF-15-12.86
SR 15 OVER TIFFIN RIVER

SFN
2000482
DESIGN AGENCY

DESIGNER MJS | CHECKER XXX
REVIEWER
XXX MM-DD-YY
PROJECT ID
105148
SUBSET 4 | TOTAL 14
SHEET P.23 | TOTAL 33

DEF-15-12.86
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