LATITUDE: 39°42′00″ LONGITUDE: -83°59′50″

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PORTION TO BE IMPROVED._____ INTERSTATE HIGHWAY ______ COUNTY & TOWNSHIP ROADS OTHER ROADS

VALLEY ROAD (TR 169)/ TREBEIN ROAD (CR 84)

7,850

9,200 930

51% 7% 60 MPH 55 MPH

05 MAJOR COLLECTOR ROADS (URBAN)

DESIGN DESIGNATION	<u>US 35</u>
CURRENT ADT (2025) DESIGN YEAR ADT (2045) DESIGN HOURLY VOLUME (2045) DIRECTIONAL DISTRIBUTION TRUCKS (24 HOUR B&C)	
LEGAL SPEED DESIGN FUNCTIONAL CLASSIFICATION:	& EXPRESSWAYS (URBAN)

DESIGN EXCEPTION: NONE REQUIRED ADA DESIGN WAIVER: NONE REQUIRED



PLAN PREPARED BY:

Jacobs

2 CROWN POINT COURT, SUITE 100 CINCINNATI, OHIO 45241 TEL: (513) 595 7500

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

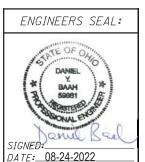
GRE-US 35-5.63

BEAVERCREEK TOWNSHIP **GREENE COUNTY**

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SCHEMATIC PLAN			OVER FLOODPLAIN R
HORIZONTAL AND VERTICAL CONTROL			CTURE NO. GRE-035-0
INTERCHANGE GEOMETRIC LAYOUT		377101	STONE NO. ONE 000 0
TYPICAL SECTIONS		115 34	OVER TRIBUTARY TO
GENERAL NOTES			CTURE NO. GRE-035-0
MAINTENANCE OF TRAFFIC		377100	STONE NO. ONE 055 0
	2C.172D.172E.172F.173-176	STRUCT	URE (OVER 201)
NOT USED			OVER LITTLE MIAMI I
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SUBSUMMARIES		377100	STONE NO. ONE 033 0
NOT USED		DAMD	E OVER LITTLE MIAMI
PROJECT SITE PLAN			CTURE NO. GRE-035-0
PLAN (US 35)		311100	STONE NO. ONE USS-U
PROFILE (US 35)		1/4///	EY/TREBEIN ROAD OVE
PLAN AND PROFILE (RAMPS)			CTURE NO. GRE-035-0
CROSS SECTIONS (US 35)		311100	STONE NO. GIL 033 0
CROSS SECTIONS (RAMPS)		EENCE I	PLAN
PLAN AND PROFILE (SIDE ROADS)			OF-WAY
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EXISTING PAVEMENT REMOVAL		JOIL 11	TOT ILL
SUPERELEVATION TABLES			
PAVEMENT DETAILS			
INTERSECTION DETAILS			
PAVEMENT JOINT DETAILS			
DRIVE DETAILS			
BARRIER DETAILS			
DITCH PLAN AND ELEVATION	•		ENGINEERS S
STORM SEWER PROFILES			LIVOIIVLLING
CUL VERT DETAILS			***************************************
DRAINAGE DETAILS			SURPRICATE OF OK
RETAINING WALLS	, ,		16
TEMPORARY RETAINING WALLS			DANIEL
TRAFFIC CONTROL		7	BAAH
THAT I CONTINUE	507A,507B	,	59881
LIGHTING		5114	A STREET
L10///1140	511B,512,512A,512B,513-		STANDONAL ELECT
	516A,517-522	010,	Janua K
	0104,011 022		SIGNED:
			DATE: 09 24 2022

	US 35 OVER FLOODPLAIN RELIEF DITCH STRUCTURE NO. GRE-035-0604	523-527
	US 35 OVER TRIBUTARY TO LITTLE MIAMI RIVER STRUCTURE NO. GRE-035-0654	528-530
8, 76	STRUCTURE (OVER 20') US 35 OVER LITTLE MIAMI RIVER	
	STRUCTURE NO. GRE-035-0614	531-537
	RAMP E OVER LITTLE MIAMI RIVER	
	STRUCTURE NO. GRE-035-0610	538-572,572A,572B,527C, 572D,572E,572F
	VALLEY/TREBEIN ROAD OVER US 35	
	STRUCTURE NO. GRE-035-0627	573-601,601A
	FENCE PLAN	
	RIGHT-OF-WAY	
	SOIL PROFILE	039-098



										DATE.	00 ZT ZUZZ				
					STANDAR	RD CONSTR	RUCTION D	RAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-1.1	7/28/00	I-3B	3B1, 7/15/22	MGS-4.3	1/18/13	SBR-2-20	1/15/21	HL-60.31	1/17/20	MT-102.20	4/19/19	TC-51.11	1/15/16	800-2019 SEE PROPOSAL	
BP-2.1	1/21/22	I-3C	3C1, 7/15/22	MGS-5.3	7/15/16	SICD-1-21	1/21/22			MT-102.30	10/16/15	TC-52.10	10/18/13	807 1/21/22	
BP-2.2	1/15/21	I-3D	7/15/22	MGS-6.1	1/19/18	SICD-2-14	1/15/21	MT-95.30	7/19/19	MT-103.10	1/21/22	TC-52.20	1/15/21	808 1/18/19	
BP-2.3	7/18/14	'				TST-1-99	1/15/21	MT-95.45	1/17/20	MT-104.10	10/16/15	TC-61.10	1/17/20	813 10/19/18	
BP-3.1	1/21/22	MH-3	7/16/21	RM-1.1	1/15/21	VPF-1-90	7/20/18	MT-95.50	7/21/17	MT-105.10	1/17/20	TC-61.30	7/19/19	821 4/20/12	
				RM-4.1	7/21/17			MT-95.71	1/17/20	MT-110.10	7/19/13	TC-65.10	1/17/14	832 10/19/18	
CB-2-2A	2B, 2C, 7/15/22	BP-4.1	7/19/13	RM-4.2	4/17/20	HL-10.11	7/15/22	MT-97.10	4/19/19	MT-120.00	7/15/22	TC-65.11	7/15/22	836 1/19/18	
CB-2-3	2-4, 7/16/21	BP-5.1	7/15/22	RM-4.3	1/21/22	HL-10.12	1/20/17	MT-98.10	1/17/20			TC-71.10	7/15/22	839 7/16/21	
CB-3	7/16/21	BP-7.1	7/17/20	RM-4.4	7/19/19	HL-10.13	4/17/20	MT-98.11	1/17/20	TC-9.31	7/16/21	TC-72.20	7/20/18	840 4/16/21	
CB-3A	7/16/21	BP-9.1	1/18/19	RM-4.5	7/21/17	HL-20.11	1/15/21	MT-98.20	4/19/19	TC-12.31	4/15/22	TC-73.20	1/17/20	846 4/17/15	
CB-6	1/21/22			RM-4.6	7/19/13	HL-20.13	7/15/22	MT-98.21	1/17/20	TC-15.116	7/16/21			850 1/21/22	
CB-8	7/16/21	F-2.1	7/20/18			HL-30.11	1/15/21	MT-98.28	1/17/20	TC-21.11	7/16/21			851 1/21/22	
CB-4A 5	5A, 8A, 7/16/21	F-3.1	7/19/13	A-1-20	1/21/22	HL-30.21	4/17/20	MT-99.20	4/19/19	TC-21.21	7/15/22			867 1/15/21	
		F-3.3	7/19/13	AS-1-15	7/17/15	HL-30.22	1/15/21	MT-99.30	1/17/20	TC-21.50	4/17/20			878 1/21/22	
DM-1.1	7/17/20	F-3.4	7/19/13	AS-2-15	1/18/19	HL-30.31	4/17/20	MT-99.60	7/15/16	TC-22.20	1/17/14			902 7/19/19	
DM-1.2	7/16/21	1		BR-2-15	1/21/22	HL-30.32	4/17/20	MT-100.00	7/16/21	TC-41.10	7/19/13			905 4/17/20	
DM-2.1	1/18/13	MGS-1.1	7/16/21	EXJ-4-87	7/15/22	HL-30.33	1/21/22	MT-101.60	1/17/20	TC-41.20	10/18/13			908 10/20/17	
DM-4.1	7/17/20	MGS-2.	1 1/19/18	GSD-1-19	1/15/21	HL-30.41	1/21/22	MT-101.70	1/17/20	TC-41.30	10/18/13			913 4/16/21	
DM-4.3	1/15/16	MGS-3.	1 1/19/18	HW-2.1	7/20/18	HL-40.20	7/15/22	MT-101.75	1/17/20	TC-41.50	10/18/13			921 4/20/12	
DM-4.4	1/15/16	MGS-3.	2 1/18/13	HW-2.2	7/20/18	HL-50.21	7/15/22	MT-101.90	7/17/20	TC-42.10	10/18/13			939 1/17/20	
		MGS-4.	2 7/19/13	PSID-1-13	1/15/21	HL-60.11	7/21/17	MT-102.10	1/17/20	TC-42.20	10/18/13			1120 4/15/22	

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF RECONSTRUCTING US 35, REMOVING AT-GRADE INTERSECTION AND CONSTRUCTING A NEW INTERCHANGE, WHILE MAINTAINING LOCAL ACCESS. THIS IMPROVEMENT INVOLVES UPGRADING APPROXIMATELY 1.28 MILES OF US 35 TO A LIMITED-ACCESS FACILITY, INCLUDING THREE HIGHWAY BRIDGE STRUCTURES, RETAINING WALLS, AND RECONSTRUCTION OF APPROXIMATELY 0.68 MILES OF SIDE ROADS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 53.28 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 19.70 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: 72.98 ACRES

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.

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 NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS SHOWN ON SHEETS NO. 59 & 59, AND THAT THE PROVISIONS FOR MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE

DATE 8-30-22 DISTRICT DEPUTY DIRECTOR

APPROVED_	
DA TE	DIRECTOR, DEPARTMENT OF
	TRANSPORTATION

7777107 077771	
ENGINEERS SEAL:	ENGINEERS SEAL:
FOR TRAFFIC CONTROL AND LIGHTING RAMNARAYAN NUNNA E-69028 SIGNED: DATE: 08/24/22	FOR STRUCTURES JASON T. CENTERS 71869 JAIL ENGINEERS 71869 DATE: 08/24/22
ENGINEERS SEAL:	
FOR SOIL PROFILE BRIAN R. TRENNER E-76271 SIGNED: Brian Trenner DATE: 08/23/2022	

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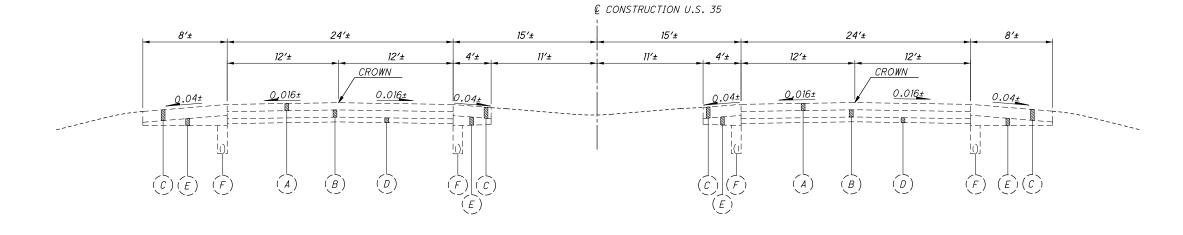
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EXISTING NORMAL SECTION - U.S. 35

STA. 288+75.00 TO STA. 322+56.00 STA. 334+25.00 TO STA. 391+00.00

EXISTING LEGEND

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- (A) 81/2"± ASPHALT CONCRETE
- 6"±-12"± VARIABLE THICKNESS REINFORCED CONCRETE
- 131/2"± ASPHALT CONCRETE
- *4"± AGGREGATE BASE*
- 4"±-91/4"± VARIABLE THICKNESS AGGREGATE BASE
- (F) 6" PIPE UNDERDRAIN
- CONCRETE MEDIAN
- 12"± CONCRETE APPROACH SLAB
- AGGREGATE BASE
- (K) 91/2"± ASPHALT CONCRETE
- (L) 13"± ASPHALT CONCRETE

PROPOSED LEGEND

- ITEM 442 11/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 mm, TYPE A (447)
- 1¾ " ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 mm TYPE A (446)
- ITEM 302 6" ASPHALT CONCRETE BASE, PG64-22
- ITEM 304 6" AGGREGATE BASE
- ITEM 452 111/2" NON-REINFORCED CONCRETE PAVEMENT, (5)CLASS QC IP WITH QC/QA
- ITEM 452 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA
- ITEM 441 11/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448)
- ITEM 441 13/4 " ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) PG64-22
- ITEM 301 6" ASPHALT CONCRETE BASE, PG64-22
- ITEM 407 NON-TRACKING TACK COAT (0.050 GAL/SY)
- ITEM 605 6" SHALLOW PIPE UNDERDRAINS, 707.31 OR 707.41
- ITEM 605 6" BASE PIPE UNDERDRAINS, 707.31 OR 707.41
- RETAINING WALL
- ITEM 659 SEEDING AND MULCHING
- ITEM 606 GUARDRAIL, TYPE MGS
- ITEM 606 GUARDRAIL, BARRIER DESIGN, TYPE MGS
- ITEM 609 CONCRETE MEDIAN, 6"
- ITEM 526 REINFORCED CONCRETE APPROACH SLAB WITH QC/QA (T=17")
- (19) ITEM 526 - REINFORCED CONCRETE APPROACH SLAB WITH QC/QA (T=15")

- ITEM 526 REINFORCED CONCRETE APPROACH SLAB WITH QC/QA (T=17"), AS PER PLAN A
- ITEM 526 REINFORCED CONCRETE APPROACH SLAB WITH QC/QA (T=17"), AS PER PLAN B
- ITEM 204 SUBGRADE COMPACTION
- (23) ITEM 609 CURB, TYPE 4-C
- (24) ITEM 622 CONCRETE BARRIER, SINGLE SLOPE, TYPE BI
- (25) ITEM 622 CONCRETE BARRIER, SINGLE SLOPE, TYPE C
- (26) ITEM 622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D
- (27) ITEM 601 PAVED GUTTER, TYPE 1-4, AS PER PLAN
- (28) NOT USED
- (29) ITEM 204 GEOTEXTILE FABRIC
- (30) ITEM 304 8" AGGREGATE BASE
- (31) ITEM 617 COMPACTED AGGREGATE, 4"
- (32) ITEM 206 CEMENT STABILIZED SUBGRADE, 12" DEEP
- ITEM 601 PAVED GUTTER, TYPE 1-2, AS PER PLAN
- STANDARD LONGITUDINAL JOINT
- ITEM 204 PROOF ROLLING
- (36) ITEM 606 GUARDRAIL, TYPE MGS WITH LONG POST
- ITEM 304 12" AGGREGATE BASE
- ITEM 204 EXCAVATION OF SUBGRADE, 12" DEEP GRANULAR MATERIAL, TYPE C

UTILITIES

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

AES OHIO 1900 DRYDEN ROAD DAYTON, OH 45439 CONTACT: MR. WILLIAM WARD PHONE: (937) 554-9063 WILLIAM.WARD@AES.COM

GREENE COUNTY SANITARY ENGINEERING: 667 DAYTON XENIA ROAD XENIA. OH 45385 CONTACT: PROJECT MANAGER SED_PM@CO.GREENE.OH.US

ODOT DISTRICT 8: 505 SOUTH STATE ROUTE 741 PO BOX 272 BUILDING 2801 LEBANON, OH 45036 CONTACT: MS. JIM JUDD PHONE: (513) 933-6692

TELEPHONE: AT&T METRO/LNS CCI NETWORKS, LLC 2649 GARDNER ROAD BROADVIEW, IL 60155 CONTACT: TIM LAPOINTE PHONE: (713) 830-7437 t10695@att.com

TELEPHONE: AT&T TRANSMISSION LONG DISTANCE 7555 E. PLEASANT VALLEY RD. SUITE 140 INDEPENDANCE, OH 44131 CONTACT: MICHAEL DIEDERICH PHONE: (216) 750-0135 MD4145@ATT.COM

TELEPHONE: AT&T OHIO DAYTON, OH 45459 CONTACT: HOWARD LAUDERMILK PHONE: (937) 296-3588

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.

ROUNDING

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

EXISTING PLANS

EXISTING PLANS ENTITLED GRE-35-(0.13-9.45) AND GRE-35-1.17 MAY BE INSPECTED IN THE ODOT DISTRICT 8 OFFICE IN LEBANON, OHIO

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITION-ING ON ODOT PROJECTS. SEE SHEET NO. 5 OF THE 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: STATIC GNSS MONUMENT TYPE: A

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88 GEOID: GEOIDO3

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD85(1995) ELLIPSOID: GRS80 MAP PROJECTION: LAMBERT CONFORMAL CONIC COORDINATE SYSTEM: OHIO STATE PLANE SOUTH ZONE COMBINED SCALE FACTOR: 0.99991836 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. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY FEET.

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.

CLEARING AND GRUBBING

THE DEPARTMENT HAS NOT MARKED INDIVIDUAL TREES AND STUMPS FOR REMOVAL. UNLESS SPECIFICALLY DESIGNATED AS "DO NOT DISTURB" IN THE PLANS, REMOVE ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201 CLEARING AND GRUBBING TREE REMOVAL IS NOT REQUIRED FOR FENCE REPLACEMENT ACTIVITIES. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES TOTAL 939 30" 166 48"

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING 45 HOURS.

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 50 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

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES. EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

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.

CONTRACTION AND/OR EXPANSION JOINTS

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN CONTRACTION AND EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN. NO WAIVER OF THE SPECIFICATIONS IS INTENDED. IN ALL CASES, THE PROVISION OF EXPANSION JOINTS AT ALL MAJOR STRUCTURES INCLUDING THE MAXIMUM SPACING BETWEEN CONTRACTION JOINTS IS IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2 AND THE SPECIFICATIONS.

FENCE LENGTHS

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

EXISTING PAVEMENT THICKNESS

THE EXISTING PAVEMENT THICKNESS SHOWN ON SHEETS 11,12, 27, AND 29 ARE APPROXIMATE ONLY. THE CONTRACTOR IS TO REFER TO THE CORRESPONDING BORING LOG/SOIL PROFILE INFORMATION SHEETS FOR THE PAVEMENT THICKNESS AT SPECIFIC LOCATIONS.

PAVEMENT RESTORATION FOR PIPE INSTALLATIONS AND/OR REMOVALS

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION AND/OR REMOVAL OF PIPES.

ITEM 301 - ASPHALT CONCRETE BASE, PG64-22 9 CU. YDS. ITEM 202 - PAVEMENT REMOVED, AS PER PLAN 24 SQ. YDS.

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 13" INCHES AND A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

ORANGE PLASTIC CONSTRUCTION FENCE

ORANGE PLASTIC CONSTRUCTION FENCE SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH MT-110.10, EXCEPT THE FENCE SHALL BE 72" HIGH AND THE TOP EDGE SHALL NOT SAG BELOW 60". THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED FOR PLACING THE ORANGE PLASTIC CONSTRUCTION FENCE.

US 35 STA. 295+00 LT. TO STA. 323+50 LT. TREBEIN RD. STA. 890+50 RT. TO 898+00 RT.

ORANGE PLASTIC CONSTRUCTION FENCE 3600 FT

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614, MAINTENANCE OF TRAFFIC AND SHALL INCLUDE ALL MATERIAL, EQUIPMENT, PARTS, LABOR, AND TOOLS NEEDED TO SECURELY PLACE, MAINTAIN, AND REMOVE THE ORANGE PLASTIC CONSTRUCTION FENCE.

ITEM 206 - MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS, AS PER PLAN

OBTAIN SOIL SAMPLES AS OUTLINED IN SUPPLEMENT 1120 FOLLOWING EXCAVATION OR EMBANKMENT PLACEMENT TO THE DESIGN SUBGRADE LEVEL. THE SOIL SAMPLES FOR SUPPLEMENT 1120 TESTING ARE TO BE OBTAINED FROM THE ACTUAL SUBGRADE SOILS. SAMPLING OF THE SOILS OUTSIDE THE ACTUAL STABILIZATION LIMITS OR FROM A BORROW AREA IS PROHIBITED. THE CONSTRUCTION SCHEDULE SHALL INCLUDE SPECIFIC ACTIVITIES FOR SAMPLING AND TESTING OF THE SUBGRADE SOILS FOR ALL PHASES OR PARTIAL PHASES OF CONSTRUCTION. THE INDIVIDUAL CONSTRUCTION PHASES ARE CONSIDERED TO BE PHASE 1, 1A, 2, 3, AND 4. PERFORM THE MIXTURE DESIGN PROCEDURE FOR EACH PHASE AS OUTLINED IN SUPPLEMENT 1120. DURING CONSTRUCTION, OBTAIN FIELD VERIFICATION SAMPLES FOR EACH PHASE OF CONSTRUCTION AND SUBMIT THE TEST RESULTS FOR EACH PHASE AS THE LABORATORY TESTING IS COMPLETE.



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GENERAL SUMMARY

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GRE-US	

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1	30	185	186	187		189		195	602		01/NHS/OT	02/NHS/BF	03/NHS/BR	I I EM	EXT	TOTAL	UNIT	DESCRIPTION	
1																		ROADWAY	
10	LS										LS			201	11000	LS			
10																			
175	24																	·	32
1																			
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1 1 622 24840 1 EACH CONCRETE BARRIER END SECTION, TYPE B 2 2 622 24850 2 EACH CONCRETE BARRIER END SECTION, TYPE B1				150	-	-		-			150			622	10161	150		CONCRETE BARRIER SINGLE SLORE TYPE DI AS REP DI ANI P	22
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SUMMARY

GENERAL

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4,500 4,500 4,500 657 335K 4,600 71 70 4,000 350 C of the Period Child	186	187		476	478	479		483	5	09	01/NHS/OT	02/NHS/BR	03/NHS/BR	ITEM	EXT	TOTAL	UNIT	DESCRIPTION	SHEET NO.
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\$ \$ \$ \$ \$ \$ \$ \$ \$ \$		82									82			626	00102	82			
1	\sim	5									5			626	00102		EACH		
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45 2																			
983.5 983.5 550 03100 983.5 FT GROUND MOUNTED SITECTURAL BEAM SUPPORT NO 3 POST 983.5 983.6																			
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140.4 140.4 140.4 630 68000 140.4 FT GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W12X80 141.4 630 68000 142.5 630 68000 143.5 630 68000 144.5 630 68000 145.5 630 63000 145.5 630 63000 145.5 630 63000 145.5 630 63000 145.5 630 63000 145.5 630 63000 145.5																			
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2 2 630 72340 2 EACH OVERHEAD SIGN SUPPORT, TYPE TC-1231, DESIGN 12						4	1	-	 		+ +	<u> </u>	-	ხას	12320	4	EACH	OVENHEAD SIGN SUFFORT, TIFE TO-12.ST, DESIGN 0	
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2 2 630 73210 2 EACH COMBINATION OVERHEAD SIGN SUPPORT, TYPE TC-9.31, DESIGN 2										1									1
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202 202 202 202 202 202 202 202 202 202 202 202 202 202 202 202 202 202 203 CATCH BASIN REMOVED REMOVAL MISC.: PRIVATE WOODEN SIGN REMOVAL MISC.: ROCK CHANNEL PROTECTION GUARDRAIL REMOVED, BARRIER DESIGN REMOVAL MISC.: CONCRETE BUMPER BLOCKS GUARDRAIL REMOVED IMPACT ATTENUATOR REMOVED REMOVAL MISC.: SEPTIC TANK AND LEACH FIELD REMOVAL MISC.: PRECAST CONCRETE OUTLET PIPE REMOVED, OVER 24" REMOVAL MISC.: CONCRETE FOUNDATION CONCRETE MEDIA REMOVED INLET REMOVED PAVEMENT REMOV AS PER PLAN BUILDING DEMOLISH GRAIN SILO EMBANKMENT REMOVED, SHEET REF. **STATION SIDE** NO. NO. **FROM** TO SY SY FT FT FT FT EACH EACH EACH EACH EACH LS EACH EACH EACH EACH SY FT CY CY US 35 R-1 224 346+00.00 350+00.00 LT 400 LT 232 R-2 224 346+00.00 348+32.00 400 225 350+00.00 354+00.00 LT R-2 225 352+34.00 354+00.00 LT 166 225 RT/LT 63 R-3 351+06.00 351+06.00 RT 222 R-4 225 351+78.00 354+00.00 R-1 354+00.00 358+00.00 LT 400 226 SUBSUMMAR R-2 226 356+07.00 356+07.00 RT/LT 60 R-3 226 354+00.00 358+00.00 LT 400 R-4 226 354+00.00 358+00.00 RT 400 357+21.00 358+00.00 RT 79 R-5 226 LT 400 R-1 358+00.00 362+00.00 LT R-2 227 358+00.00 362+00.00 400 R-3 227 358+00.00 362+00.00 RT 400 R-4 227 359+00.00 359+07.00 RT 227 361+07.00 361+07.00 60 R-5 RT/LT > LT LT RT R-1 228 362+00.00 365+49.00 349 366+00.00 365+00.00 R-2 228 362+00.00 400 ⋖ 228 300 362+00.00 R-3 ≥ OAD 366+00.00 366+00.00 370+00.00 368+87.50 R-1 R-2 229 229 RT LT 400 288 R-1 230 370+00.00 375+00.00 RT 500 $\mathbf{\alpha}$ LT R-2 230 379+63.00 380+00.00 37 375+00.00 380+00.00 RT 500 R-3 230 R-1 231 380+00.00 381+46.00 LT 146 RT R-2 231 380+00.00 385+00.00 500 388+15.00 RT R-3 231 385+00.00 315 VALLEY ROAD R-1 355 862+70.00 LT 21 TREBEIN ROAD 361 885+27.00 885+27.00 LT 885+90.00 888+80.00 297 362 RT 887+50.00 R-2 362 886+31.00 R-1 890+28.00 890+28.00 LT 363 R-2 363 890+91.00 891+32.00 RT/LT 89 RT 363 R-3 891+11.00 891+11.00 3 R-4 363 889+13.00 889+97.00 RT 9 9 2 GLENN THOMPSON ACCESS DRIVE R-1 366 8+50.00 8+50.00 RT/LT 68 3 DRIVE AT VALLEY ROAD S RT R-1 428 1+28.00 1+28.00 Ш GR 184 698 5 0 0 60 3208 2 5 0 9 2 0 0 **TOTALS CARRIED TO SHEET 185** 0 598 4426 0 0 1

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REF. NO.	SHEET NO.	STATION	SIDE	PAVEMENT REMOVED, AS PER PLAN	CONCRETE MEDIAN REMOVED	PIPE REMOVED, 24" AND UNDER	PIPE REMOVED, OVER 24"	GUARDRAIL REMOVED	GUARDRAIL REMOVED, BARRIER DESIGN	IMPACT ATTENUATOR REMOVED	MAILBOX REMOVED	BUILDING DEMOLISHED, GRAIN SILO	CATCH BASIN REMOVED	INLET REMOVED	REMOVAL MISC.: SEPTIC TANK AND LEACH FIELD	REMOVAL MISC.: PRECAST CONCRETE OUTLET	REMOVAL MISC.: PRIVATE WOODEN SIGN	REMOVAL MISC.: CONCRETE BUMPER BLOCKS	REMOVAL MISC.: CONCRETE FOUNDATION	REMOVAL MISC.: ROCK CHANNEL PROTECTION	ABANDON MISC.: PIPE 24" AND UNDER	EXCAVATION	EMBANKMENT	CALCULAT JAE CHECKEI DYB
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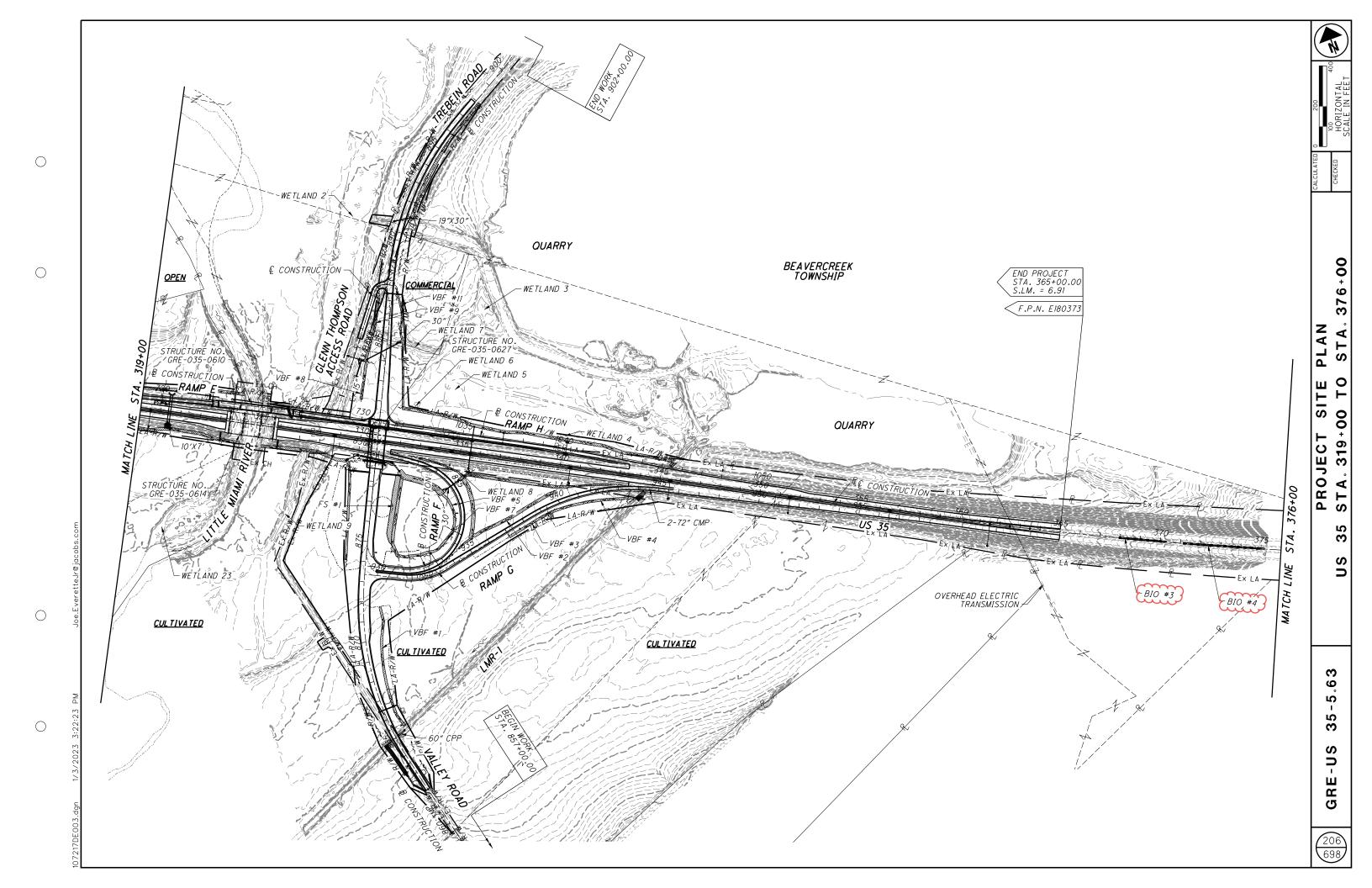
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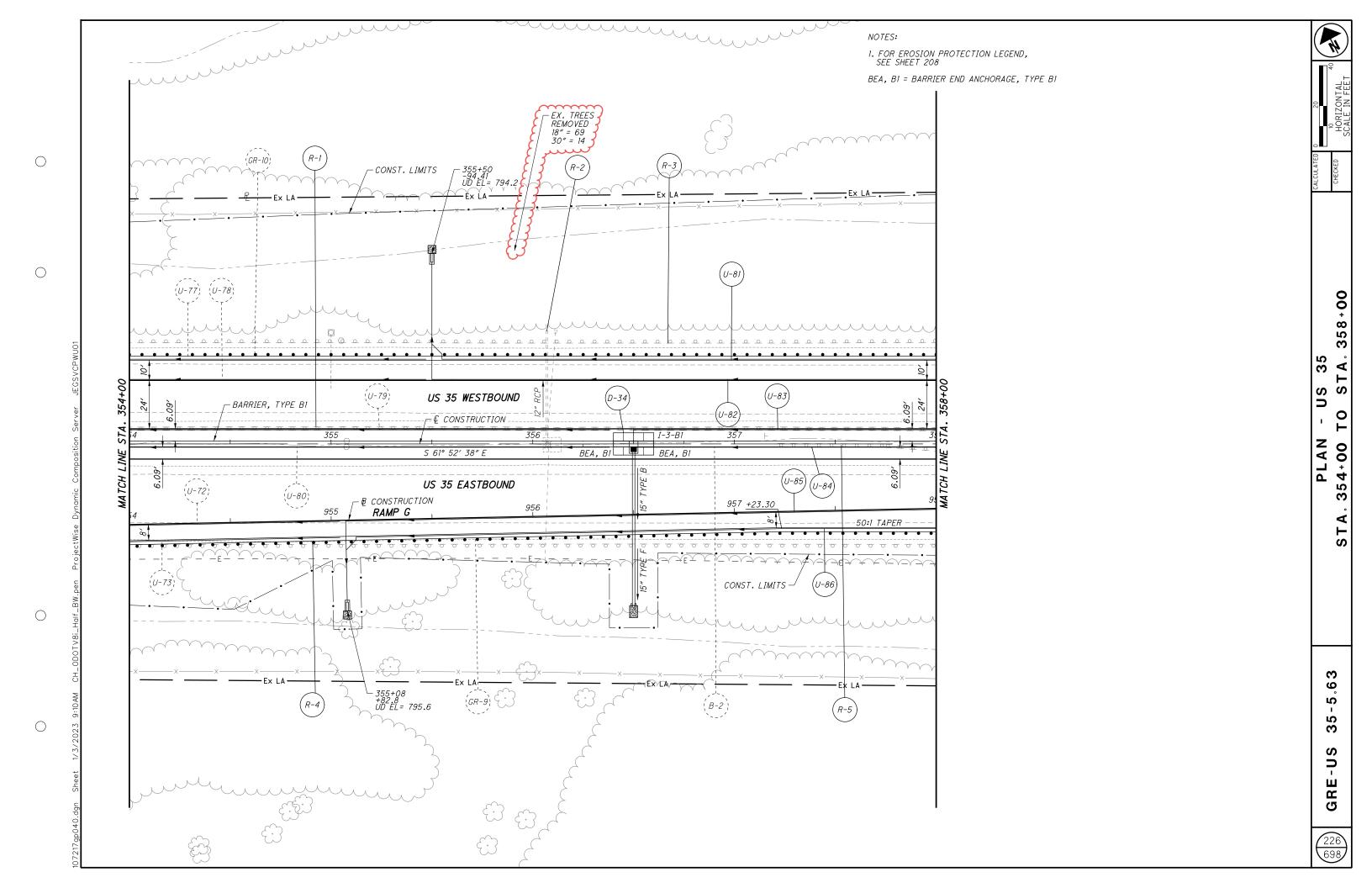
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POST PHASE 3 / FINAL CONFIGURATION 0.04 1.44 1.88 1041 226 754 36 0.04 1.44 1.88 1041 226 754 36	REF.	SHEET	STATION		WORK ZONE LANE LINE, 9 CLASS I, 6", 642 PAINT P	WORK ZONE CENTER LINE, 9 CLASS I, 642 PAINT 15	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT 19 (WHITE)	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT	WORK ZONE DOTTED LINE, 9 CLASS I, 4", 642 PAINT P	WORK ZONE TRANSVERSE / DIAGONAL LINE, CLASS I, 5642 PAINT	WORK ZONE STOP LINE, 19 CLASS I, 642 PAINT P	WORK ZONE LANE LINE, 19 CLASS III, 6", 642 PAINT 15	WORK ZONE CENTER LINE, 9 CLASS III, 642 PAINT P	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT (WHITE)	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT	WORK ZONE DOTTED LINE, 9 CLASS III, 4", 642 PAINT	WORK ZONE TRANSVERSE / DIAGONAL LINE, CLASS III, 642 PAINT	WORK ZONE STOP LINE, 9 CLASS III, 642 PAINT P	V.40	0.22		4000			
	REF.	SHEET	STATION		WORK ZONE LANE LINE, 9 CLASS I, 6", 642 PAINT P	WORK ZONE CENTER LINE, 9 CLASS I, 642 PAINT 15	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT 19 (WHITE)	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT	WORK ZONE DOTTED LINE, 9 CLASS I, 4", 642 PAINT P	WORK ZONE TRANSVERSE / DIAGONAL LINE, CLASS I, 5642 PAINT	WORK ZONE STOP LINE, 19 CLASS I, 642 PAINT P	WORK ZONE LANE LINE, 19 CLASS III, 6", 642 PAINT 15	WORK ZONE CENTER LINE, 9 CLASS III, 642 PAINT P	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT (WHITE)	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT	WORK ZONE DOTTED LINE, 9 CLASS III, 4", 642 PAINT	WORK ZONE TRANSVERSE / DIAGONAL LINE, CLASS III, 642 PAINT	WORK ZONE STOP LINE, 9 CLASS III, 642 PAINT P	0.40	0.22		4000			

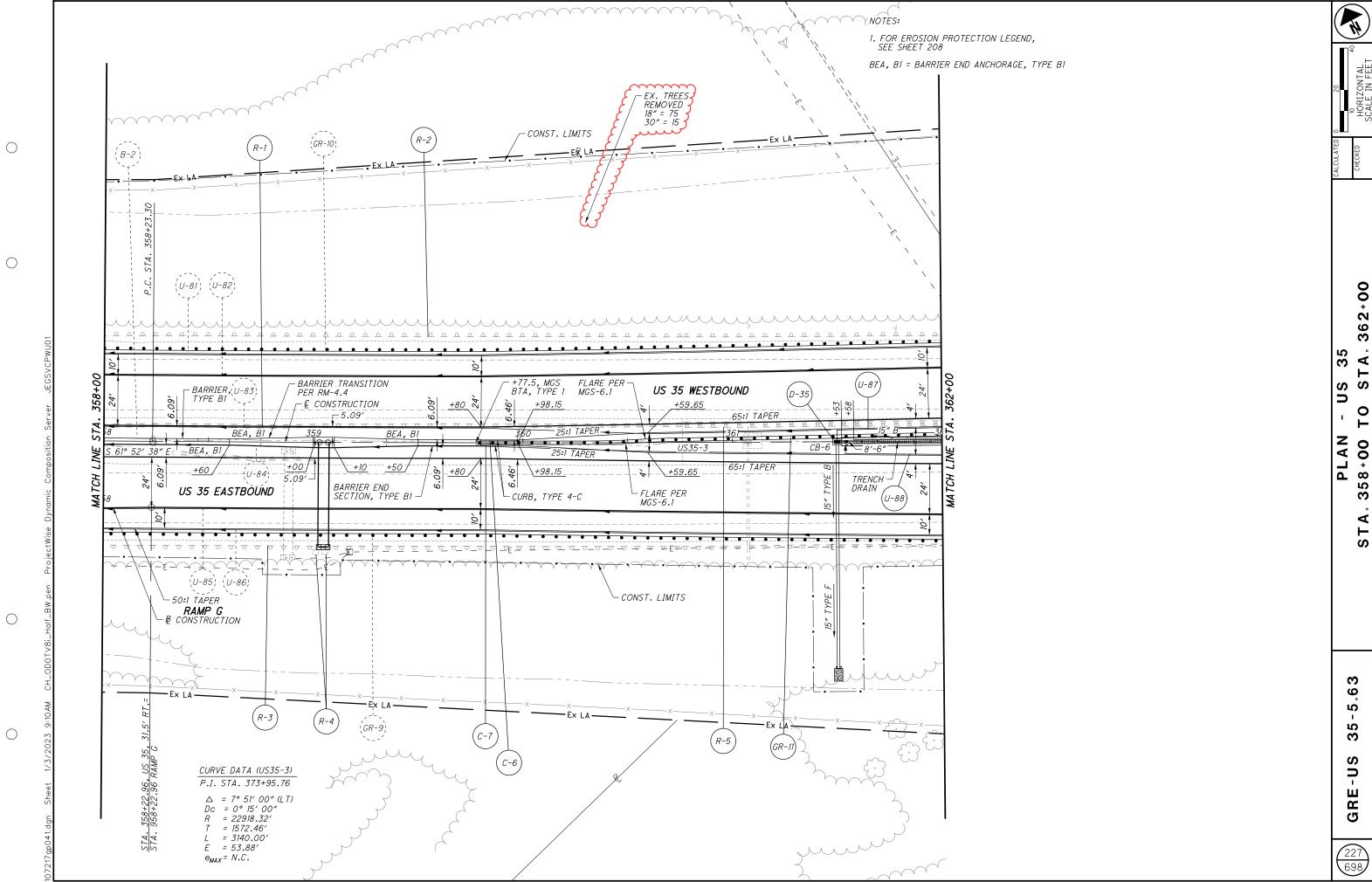
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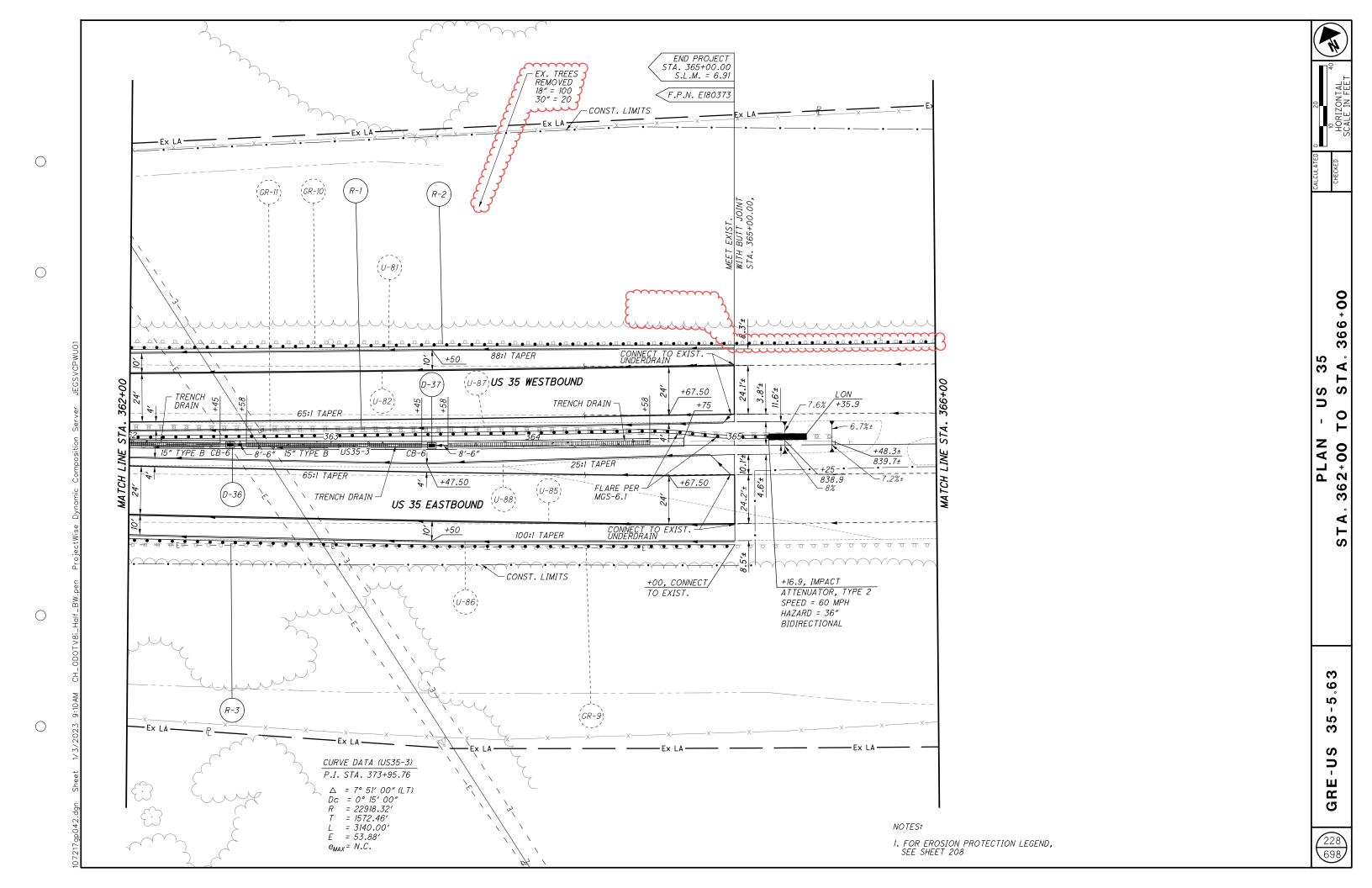
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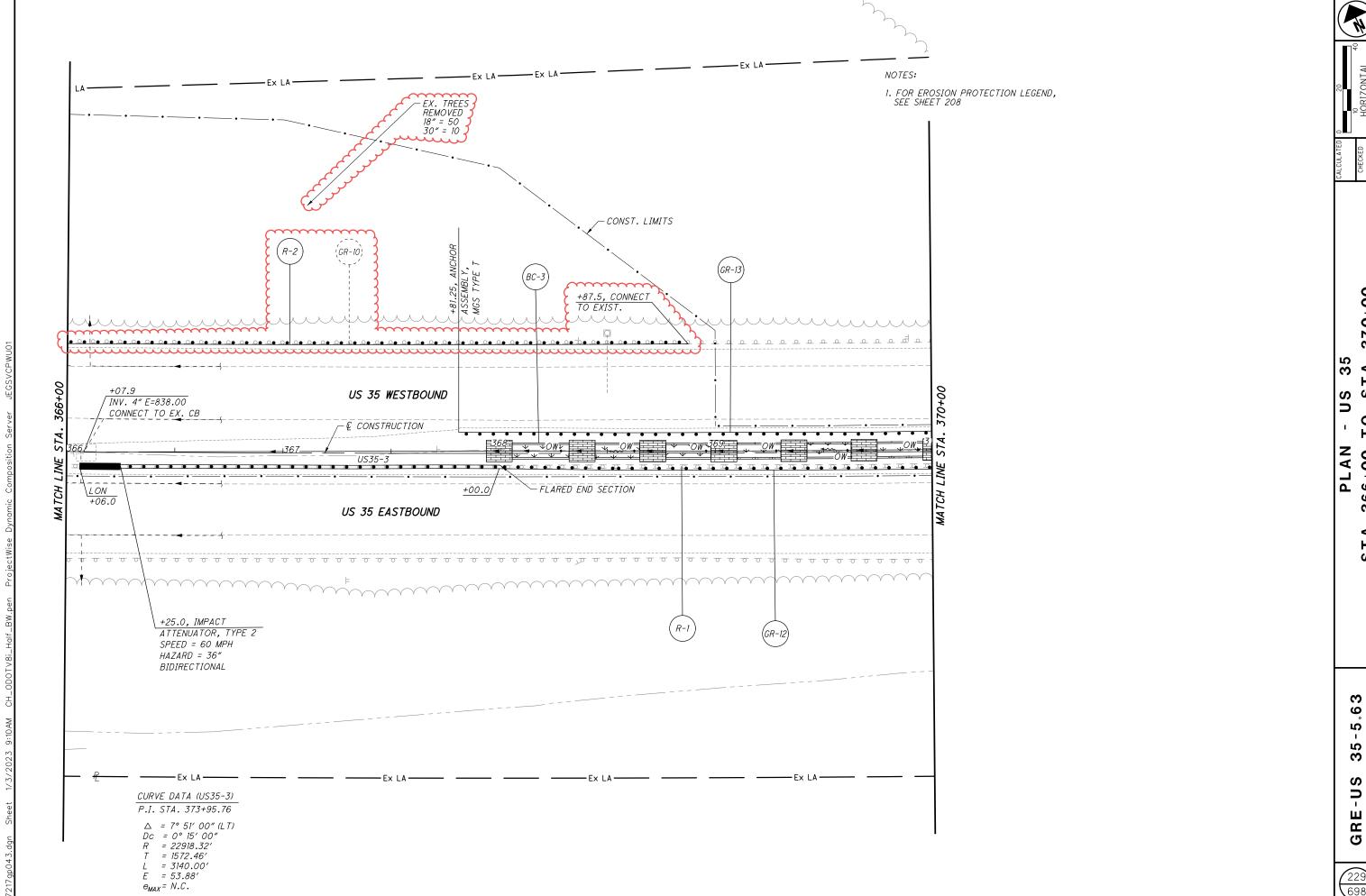
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GRI THIS ITEM MODIFIES THE STANDARD 511 CONCRETE FOR STRUCTURES SPECIFICATION TO INCLUDE CORROSION INHIBITORS INTO THE SUPERSTRUCTURE CONCRETE. THIS ITEM SHALL CONFORM TO CMS 511 WITH THE FOLLOWING CONDITIONS AND REVISIONS:

PROVIDE MATERIALS CONFORMING TO 511.02 EXCEPT AS MODIFIED BELOW:

PORTLAND CEMENT CONCRETE

499.03, CLASS OC 2 STRENGTH OF 4,500

515.15

CORROSION INHIBITOR

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THE CLASS OC2 CONCRETE FOR THE SUPERSTRUCTURE SHALL MEET THE FOLLOWING CRITERIA: WATER/CEMENT RATIO = 0.40 MAXIMUM

MIX SHALL INCLUDE A MIGRATING CORROSION INHIBITOR AS MANUFACTURED BY AN APPROVED SUPPLIER LISTED ON ODOT'S QUALIFIED APPROVED SUPPLIERS, ITEM 515.15. THE DOSAGE RATE LISTED ON THE ODOT QUALIFIED APPROVED SUPPLIERS LIST WILL APPLY.

THE BATCH WEIGHTS SHALL BE CORRECTED TO COMPENSATE FOR THE MOISTURE CONTAINED IN THE AGGREGATE AT THE TIME OF USE. A CHEMICAL ADMIXTURE (705.12, TYPE A OR D) SHALL BE USED.

CONCRETE SUPPLIERS SHOULD RECOGNIZE THAT THE CORROSION INHIBITOR AND ADMIXTURES MAY HAVE AN EFFECT ON STRENGTH, ENTRAINED AIR CONTENT, WORKABILITY, ETC. OF THEIR CONCRETE MIXES. THE CORROSION INHIBITOR IS SUGGESTED TO BE A MCI PRODUCT BY CORTEC OR AN APPROVED EQUAL FROM THE QUALIFIED PRODUCTS LIST. THE CONCRETE SUPPLIER'S CHOICE OF ONE OF THESE CORROSION INHIBITORS DOES NOT ALLEVIATE MEETING DESIGN ON THE LIST EFFECT THE DELIVERED MIX PROPERTIES GREATLY WHILE OTHER PRODUCTS DO NOT.

APPROACH SLABS AND DIAPHRAGMS ARE TO USE THE SAME MIX DESIGN AS THE BRIDGE DECK. THE CONTRACTOR SHOULD BE ADVISED THAT CONCRETE RETARDING AGENTS MAY NEED TO BE ADDED TO OFFSET THE EFFECTS OF THE MIGRATING CORROSION INHIBITOR SELECTED.

THE CONTRACTOR SHALL PROVIDE TRADITIONAL BRIDGE DECK FORMS CONFORMING TO CMS 508. PERMANENT STAY-IN-PLACE (SIP) FORMS ARE NOT ALLOWED. THE PLACING OF THE DECK AND THE APPROACH SLABS IN THE SAME CONCRETE POUR IS NOT PERMITTED.

ITEM 511, CLASS OC2 CONCRETE WITH OC/OA, BRIDGE DECK (PARAPET), AS PER PLAN

THIS ITEM MODIFIES THE STANDARD 511 CONCRETE FOR STRUCTURES SPECIFICATION TO INCLUDE MACRO-SYNTHETIC FIBERS. AND CORROSION INHIBITORS INTO THE SUPERSTRUCTURE CONCRETE. THIS ITEM SHALL CONFORM TO CMS 511 WITH THE FOLLOWING CONDITIONS AND REVISIONS:

PROVIDE MATERIALS CONFORMING TO 511.02 EXCEPT AS MODIFIED BELOW:

PORTLAND CEMENT CONCRETE

499.03, CLASS OC 2 MEETING A DESIGN STRENGTH OF 4,500 PSI. WITH MACRO-SYNTHETIC FIBERS WITH MODIFICATION PFR 511.02 ASTM C 1116, TYPE III 515.15

FIBERS FOR CONCRETE CORROSION INHIBITOR

THE CLASS OC2 CONCRETE FOR THE SUPERSTRUCTURE SHALL MEET THE FOLLOWING CRITERIA:

WATER/CEMENT RATIO = 0.40 MAXIMUM; MINIMUM 5 LBS/CY MACRO-SYNTHETIC FIBERS (1.5 IN. MIN. TO 2.5 IN. MAX.) MEETING ASTM CIII6 TYPE III SHALL BE ADDED TO THE MIX.

MIX SHALL INCLUDE A MIGRATING CORROSION INHIBITOR AS MANUFACTURED BY AN APPROVED SUPPLIER LISTED ON ODOT'S QUALIFIED APPROVED SUPPLIERS, ITEM 515.15. THE DOSAGE RATE LISTED ON THE ODOT QUALIFIED APPROVED SUPPLIERS LIST WILL APPLY.

ITEM 511, CLASS OC2 CONCRETE WITH OC/OA, BRIDGE DECK (PARAPET), AS PER PLAN, CONT'D.

THE MACRO-SYNTHETIC FIBERS SHALL BE INCORPORATED INTO THE MIX IN SUCH A WAY THAT NO 'BALLING' OCCURS. UPON INSPECTION OF THE MIX AT THE TIME OF PLACEMENT, IF ANY INSPECTION OF THE MIX AT THE TIME OF PLACEMENT, IF A BALLING' OCCURS, THE ENGINEER SHALL REJECT THE REMAINDER OF THE LOAD AT ANY TIME DURING THE POUR. IT IS IMPORTANT TO FOLLOW INDUSTRY STANDARDS AND ASTM SPECIFICATIONS ON THE PREMIXING OF THE CEMENT, AGGREGATE, AND MACRO-SYNTHETIC FIBERS PRIOR TO THE ADDITION OF WATER AND ADMIXTURES. PROVIDE MACRO-SYNTHETIC FIBERS THAT ARE MONOFILAMENT FIBERS MADE FROM VIRGIN POLYPROPYLENE, POLYETHYLENE, OR CO-POLYMERS THAT ARE INERT TO ALKALI ATTACK. ENSURE THE MACRO-SYNTHETIC FIBERS HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI, A MINIMUM MODULUS OF ELASTICITY OF 800 KSI, A MINIMUM FILAMENT DIAMETER OF 0.012 INCHES, AND ASPECT RATIO BETWEEN 60 AND 100, AND ARE BETWEEN 1.0 AND 2.5 INCHES IN LENGTH. STORE THE MACRO-SYNTHETIC FIBERS ACCORDING TO THE MANUFACTURER'S RECOMMENDATION AND KEEP THE MATERIAL FREE FROM DUST, DIRT AND MOISTURE. PLACING THE BAG THAT THE FIBERS COME IN INTO THE CONCRETE MIX IS NOT PERMITTED.

USE A MINIMUM DOSAGE RATE OF MACRO-SYNTHETIC FIBERS OF 5.0 LBS/CY OF CONCRETE. ENSURE THE FINAL PROPOSED MIX IS WORKABLE AND ABLE TO BE PRODUCED SUCH THAT BALLING OR CLUMPING OF THE FIBERS IS NOT A PROBLEM AS DETERMINED BY THE FIBERS IS NOT A PROBLEM AS
DETERMINED BY THE ENGINEER. BEFORE USE, SUBMIT
DOCUMENTATION TO THE PROJECT ENGINEER CERTIFYING BOTH
THE MACRO-SYNTHETIC FIBERS AND THE MIX MEET OR EXCEED
THE REQUIRED PROPERTIES. SAMPLING WILL BE ALLOWED FOR
TESTING PURPOSES. A DEMONSTRATION OF THE MIX PRODUCTION OR TRIAL MIX, MAY BE REQUIRED BY THE ENGINEER PRIOR TO PLACING ANY OF THE MIX ON THE

THE BATCH WEIGHTS SHALL BE CORRECTED TO COMPENSATE FOR THE MOISTURE CONTAINED IN THE AGGREGATE AT THE TIME OF USE. A CHEMICAL ADMIXTURE (705.12, TYPE A OR D) SHALL BE USED. THE TRANSIT MIXER CHARGE SHALL BE LIMITED TO3#40F ITS RATED CAPACITY OR 6 CUBIC YARDS WHICHEVER IS SMALLER. THE FIRST THREE TRANSIT MIXER LOADS ARE REQUIRED TO BE AT THE MINIMUM YARDAGE LISTED ABOVE TO SHOW PROOF OF THE SUCCESSFUL BATCHING OPERATION. AFTER CONSISTENCY IN THE DELIVERED MATERIAL HAS BEEN ESTABLISHED, THE CONCRETE SUPPLIER MAY INCREASE THE BATCH DELIVERED OUANTITIES AS LONG AS THE QUALITY REMAINS ACCEPTABLE TO THE ENGINEER. THE ENGINEER CAN REDUCE THE BATCH LOAD SIZE AT ANY TIME AS NEEDED TO CORRECT/IMPROVE CONCRETE QUALITY.

CONCRETE SUPPLIERS SHOULD RECOGNIZE THAT THE CORROSION INHIBITOR AND ADMIXTURES MAY HAVE AN EFFECT ON STRENGTH, ENTRAINED AIR CONTENT, WORKABILITY, ETC. OF THEIR CONCRETE MIXES. THE CORROSION INHIBITOR IS SUGGESTED TO BE A MCI PRODUCT BY CORTEC OR AN APPROVED EQUAL FROM THE QUALIFIED PRODUCTS LIST. THE CONCRETE SUPPLIER'S CHOICE OF ONE OF THESE CORROSION INHIBITORS DOES NOT ALLEVIATE MEETING DESIGN REQUIREMENTS. PLEASE BE ADVISEDTHAT SOME PRODUCTS ON THE LIST EFFECT THE DELIVERED MIX PROPERTIES GREATLY WHILE OTHER PRODUCTS DO NOT.

THE CONTRACTOR SHOULD BE ADVISED THAT CONCRETE RETARDING AGENTS MAY NEED TO BE ADDED TO OFFSET THE EFFECTS OF THE MIGRATING CORROSION INHIBITOR SELECTED. THIS SPECIFICATION IS INTENDED FOR USE ON NON DECORATIVE BRIDGE RAILING. USE SELF-COMPACTING CONCRETE ON DECORATIVE RAILING SIMILAR TO TEXAS RAILING AND MACRO-SYNTHETIC CONCRETE PER THIS SPECIFICATION ON TRADITIONAL CONCRETE RAILING WHEN APPLICABLE.

ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

DUE TO THE RECENT SUPPLY SHORTAGES, THE DEPARTMENT HAS BEEN MADE AWARE OF DIFFICULTIES THAT SUPPLIERS ARE HAVING IN OBTAINING THE NECESSARY MATERIALS FOR EPOXY. ON THIS PROJECT THE CONTRACTOR CAN USE TRADITIONAL EPOXY-URETHANE SEALERS APPROVED ON THE OPL OR ELECT TO SUBSTITUTE BRIDGE COTE XL-70 W/SILANE THAT IS LISTED ON THE APPROVED NOISE SUPPLIER LIST UNDER APPROVED SEALERS FOR NOISE BARRIERS. APPROVEDNOISESUPPLIERSLIST.PDF (OHIO.GOV).

IF BRIDGE COTE XL-70 W/SILANE IS CHOSEN, MEET THE REQUIREMENTS OF THE BRIDGE COTE XL-70 W/SILANE TECHNICAL DATA SHEET WITH THE EXCEPTION OF THE SURFACE PREPARATION THAT WILL STILL FOLLOW THE REQUIREMENTS LISTED UNDER C&MS 512 FOR EPOXY URETHANE SEALERS.

PART.					ESTIMATED OUANTITIES							
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LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION	LS	LS				¬	88
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5860	507	00600	5860	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	4180	1680					
6355	507	00650	6355	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	4515	1840				_	_
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130333	303	20000	130333	LD	GALVANIZED STEEL KEINFORCMENT	40207	21133	122331			DATE 972(. [≶
374	511	34447	374	CY	CLASS OC2 CONCRETE WITH OC/OA, BRIDGE DECK, AS PER PLAN			374		4/36	l . c.	,
127	511	34451	127	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN			127		4/36		띪
79	511	41012	79	CY	CLASS QCI CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS		79	12 /		17 30	EWE(<u>, []</u>
67	511	43512		CY	CLASS OCL CONCRETE WITH OCKOA, ABUTMENT INCLUDING FOOTING	67					REVIEWED JTC	, IR
231	511	44112	67 231	CY	CLASS OCI CONCRETE WITH OC/OA, ABUTMENT NOT INCLUDING FOOTING	67 231						
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182	511	46512	182	CY	CLASS QCI CONCRETE WITH QC/QA, FOOTING	123	59				DRAWN	. EVI
												╨
1365	512	10101	1365	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	270	220	875		4/36	ص ر <u>د</u>	
16	512	33000	16	SY	TYPE 2 WATERPROOFING	16					DESIGNED PEG	ı K
											DES	동
104562	513	10300	404562	LB	STRUCTURAL STEEL MEMBERS, LEVEL 5			404562				_
3840	513	20000	3840	EACH	WELDED STUD SHEAR CONNECTORS			3840				
1707		2222	.707		FIG. 0. DANIENO CEDUCELONI CETTI INTERNETINE COLE			1707		17 (70		
1307	514	00060	1307	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			1307		17/36		
1307	514	00066	1307	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			1307		17/36		
69	516	11210	69	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL			69			S	
164	516	13600	164	SF	1" PREFORMED EXPANSION JOINT FILLER			164			Ľ.	
4	516	44101	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE		4	104		24/36	=	
7	310	44101	7	LACIT	(NEOPRENE), AS PER PLAN (16" x 26" X 2.50" PAD WITH 17" x 34" x 2" PLATE)		7			247 30	QUANTITIE	
					THE OTHER PROPERTY OF A PROPER						IΥ	
4	516	44201	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE		4			24/36	ΙŌ	_
					(NEOPRENE), AS PER PLAN (16" x 26" X 3.50" PAD WITH 17" x 27" x 2" PLATE)						le.	910
8	516	44301	8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE	8				24/36	IF.	0-0
					(NEOPRENE), AS PER PLAN (14" x 16" X 4.70" PAD WITH 15" x 17" x 2" PLATE)						STIMATED	03
											ΙΞ	NO. GRE-035-0610
268	518	20000	268	SY	PREFABRICATED GEOCOMPOSITE BOARD	268					Ľ	9
34	518	21200	34	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	34					∞	<u>o</u>
129	518	40000	129	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	129					=	<u>—</u> Ш
38	518	40010	38	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	38					Ŋ	DG
		20000		F. (5)	DWWW. COLD TESTING						NOTES	BRIDGE
Y	523	20000	CY_	EACH	- DYMANIC LOAD TESTING	Y		~			19	-
8	523	20500	8	EACH	RESTRIKE	X X Y	4	\ \ \				
05	E20	25010	05	CV	DEINICORCED CONCRETE ADDROACH CLARC WITH OC (OA /T-15/9)		\sim)	or		GENERAL	
85	526 526	25010 30010	85 100	SY SY	REINFORCED CONCRETE APPROACH SLABS WITH OC/QA (T=15") REINFORCED CONCRETE APPROACH SLABS WITH OC/QA (T=17")				85 100		画	
100	320	30010	100	31	NEINFONCED CONCRETE AFFROACH SLADS WITH QU/QA (1-1/)				100		يبَا	
	1											

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THIS ITEM MODIFIES THE STANDARD 511 CONCRETE FOR STRUCTURES SPECIFICATION TO INCLUDE CORROSION INHIBITORS INTO THE SUPERSTRUCTURE CONCRETE. THIS TEM SHALL CONFORM TO CMS 511 WITH THE FOLLOWING CONDITIONS AND REVISIONS:

PROVIDE MATERIALS CONFORMING TO 511.02 EXCEPT AS MODIFIED BELOW:

PORTLAND CEMENT CONCRETE

499.03, CLASS QC 2 STRENGTH OF 4,500

515.15

CORROSION INHIBITOR

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THE CLASS OC2 CONCRETE FOR THE SUPERSTRUCTURE SHALL MEET THE FOLLOWING CRITERIA: WATER/CEMENT RATIO = 0.40 MAXIMUM

MIX SHALL INCLUDE A MIGRATING CORROSION INHIBITOR AS MANUFACTURED BY AN APPROVED SUPPLIER LISTED ON ODOT'S QUALIFIED APPROVED SUPPLIERS, ITEM 515.15. THE DOSAGE RATE LISTED ON THE ODOT QUALIFIED APPROVED SUPPLIERS LIST WILL APPLY.

THE BATCH WEIGHTS SHALL BE CORRECTED TO COMPENSATE FOR THE MOISTURE CONTAINED IN THE AGGREGATE AT THE TIME OF USE. A CHEMICAL ADMIXTURE (705.12, TYPE A OR D) SHALL BE USED.

CONCRETE SUPPLIERS SHOULD RECOGNIZE THAT THE CORROSION INHIBITOR AND ADMIXTURES MAY HAVE AN EFFECT ON STRENGTH, ENTRAINED AIR CONTENT, WORKABILITY, ETC. OF THEIR CONCRETE MIXES. THE CORROSION INHIBITOR IS SUGGESTED TO BE A MCI PRODUCT BY CORTEC OR AN APPROVED EQUAL FROM THE QUALIFIED PRODUCTS LIST. THE CONCRETE SUPPLIER'S CHOICE OF ONE OF THESE CORROSION INHIBITORS DOES NOT ALLEVIATE MEETING DESIGN ON THE LIST EFFECT THE DELIVERED MIX PROPERTIES GREATLY WHILE OTHER PRODUCTS DO NOT.

APPROACH SLABS AND DIAPHRAGMS ARE TO USE THE SAME MIX DESIGN AS THE BRIDGE DECK. THE CONTRACTOR SHOULD BE ADVISED THAT CONCRETE RETARDING AGENTS MAY NEED TO BE ADDED TO OFFSET THE EFFECTS OF THE MIGRATING CORROSION INHIBITOR SELECTED.

THE CONTRACTOR SHALL PROVIDE TRADITIONAL BRIDGE DECK FORMS CONFORMING TO CMS 508. PERMANENT STAY-IN-PLACE (SIP) FORMS ARE NOT ALLOWED. THE PLACING OF THE DECK AND THE APPROACH SLABS IN THE SAME CONCRETE POUR IS NOT PERMITTED.

ITEM 511, CLASS OC2 CONCRETE WITH OC/OA, BRIDGE DECK (PARAPET), AS PER PLAN

THIS ITEM MODIFIES THE STANDARD 511 CONCRETE FOR STRUCTURES SPECIFICATION TO INCLUDE MACRO-SYNTHETIC FIBERS. AND CORROSION INHIBITORS INTO THE SUPERSTRUCTURE CONCRETE. THIS ITEM SHALL CONFORM TO CMS 511 WITH THE FOLLOWING CONDITIONS AND REVISIONS:

PROVIDE MATERIALS CONFORMING TO 511.02 EXCEPT AS MODIFIED BELOW:

PORTLAND CEMENT CONCRETE

499.03, CLASS OC 2 MEETING A DESIGN STRENGTH OF 4,500 PSI. WITH MACRO-SYNTHETIC FIBERS WITH MODIFICATION PFR 511.02 ASTM C 1116, TYPE III

515.15

FIBERS FOR CONCRETE CORROSION INHIBITOR

THE CLASS QC2 CONCRETE FOR THE SUPERSTRUCTURE SHALL MEET THE FOLLOWING CRITERIA:

WATER/CEMENT RATIO = 0.40 MAXIMUM; MINIMUM 5 LBS/CY MACRO-SYNTHETIC FIBERS (1.5 IN. MIN. TO 2.5 IN. MAX.) MEETING ASTM CIII6 TYPE III SHALL BE ADDED TO THE MIX.

MIX SHALL INCLUDE A MIGRATING CORROSION INHIBITOR AS MANUFACTURED BY AN APPROVED SUPPLIER LISTED ON ODOT'S QUALIFIED APPROVED SUPPLIERS, ITEM 515.15. THE DOSAGE RATE LISTED ON THE ODOT QUALIFIED APPROVED SUPPLIERS LIST WILL APPLY.

ITEM 511, CLASS OC2 CONCRETE WITH OC/OA, BRIDGE DECK (PARAPET), AS PER PLAN, CONT'D.

THE MACRO-SYNTHETIC FIBERS SHALL BE INCORPORATED INTO THE MIX IN SUCH A WAY THAT NO 'BALLING' OCCURS. UPON INSPECTION OF THE MIX AT THE TIME OF PLACEMENT, IF ANY INSPECTION OF THE MIX AT THE TIME OF PLACEMENT, IF A 'BALLING' OCCURS, THE ENGINEER SHALL REJECT THE REMAINDER OF THE LOAD AT ANY TIME DURING THE POUR. IT IS IMPORTANT TO FOLLOW INDUSTRY STANDARDS AND ASTM SPECIFICATIONS ON THE PREMIXING OF THE CEMENT, AGGREGATE, AND MACRO-SYNTHETIC FIBERS PRIOR TO THE ADDITION OF WATER AND ADMIXTURES. PROVIDE MACRO-SYNTHETIC FIBERS THAT ARE MONOFILAMENT FIBERS MADE FROM VIRGIN POLYPROPYLENE, POLYETHYLENE, OR CO-POLYMERS THAT ARE INERT TO ALKALI ATTACK. ENSURE THE MACRO-SYNTHETIC FIBERS HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI, A MINIMUM MODULUS OF ELASTICITY OF 800 KSI, A MINIMUM FILAMENT DIAMETER OF 0.012 INCHES, AND ASPECT RATIO BETWEEN 60 AND 100, AND ARE BETWEEN 1.0 AND 2.5 INCHES IN LENGTH. STORE THE MACRO-SYNTHETIC FIBERS ACCORDING TO THE MANUFACTURER'S RECOMMENDATION AND KEEP THE MATERIAL FREE FROM DUST, DIRT AND MOISTURE. PLACING THE BAG THAT THE FIBERS COME IN INTO THE CONCRETE MIX IS NOT PERMITTED.

USE A MINIMUM DOSAGE RATE OF MACRO-SYNTHETIC FIBERS OF 5.0 LBS/CY OF CONCRETE. ENSURE THE FINAL PROPOSED MIX IS WORKABLE AND ABLE TO BE PRODUCED SUCH THAT BALLING OR CLUMPING OF THE FIBERS IS NOT A PROBLEM AS DETERMINED BY THE ENGINEER. BEFORE USE, SUBMIT DOCUMENTATION TO THE PROJECT ENGINEER CERTIFYING BOTH THE MACRO-SYNTHETIC FIBERS AND THE MIX MEET OR EXCEED THE REOUIRED PROPERTIES. SAMPLING WILL BE ALLOWED FOR TESTING PURPOSES. A DEMONSTRATION OF THE MIX PRODUCTION OR TRIAL MIX, MAY BE REQUIRED BY THE ENGINEER PRIOR TO PLACING ANY OF THE MIX ON THE

THE BATCH WEIGHTS SHALL BE CORRECTED TO COMPENSATE FOR THE MOISTURE CONTAINED IN THE AGGREGATE AT THE TIME OF USE. A CHEMICAL ADMIXTURE (705.12, TYPE A OR D) SHALL BE USED. THE TRANSIT MIXER CHARGE SHALL BE LIMITED TO3#40F ITS RATED CAPACITY OR 6 CUBIC YARDS, LIMITED TO 3#40F ITS RATED CAPACITY OR 6 CUBIC YARDS, WHICHEVER IS SMALLER. THE FIRST THREE TRANSIT MIXER LOADS ARE REQUIRED TO BE AT THE MINIMUM YARDAGE LISTED ABOVE TO SHOW PROOF OF THE SUCCESSFUL BATCHING OPERATION. AFTER CONSISTENCY IN THE DELIVERED MATERIAL HAS BEEN ESTABLISHED, THE CONCRETE SUPPLIER MAY INCREASE THE BATCH DELIVERED OUANTITIES AS LONG AS THE QUALITY REMAINS ACCEPTABLE TO THE ENGINEER. THE ENGINEER CAN REDUCE THE BATCH LOAD SIZE AT ANY TIME AS NEEDED TO CORRECT/IMPROVE CONCRETE QUALITY.

CONCRETE SUPPLIERS SHOULD RECOGNIZE THAT THE CORROSION INHIBITOR AND ADMIXTURES MAY HAVE AN EFFECT ON STRENGTH, ENTRAINED AIR CONTENT, WORKABILITY, ETC. OF THEIR CONCRETE MIXES. THE CORROSION INHIBITOR IS SUGGESTED TO BE A MCI PRODUCT BY CORTEC OR AN APPROVED EQUAL FROM THE QUALIFIED PRODUCTS LIST. THE CONCRETE SUPPLIER'S CHOICE OF ONE OF THESE CORROSION INHIBITORS DOES NOT ALLEVIATE MEETING DESIGN REQUIREMENTS. PLEASE BE ADVISEDTHAT SOME PRODUCTS ON THE LIST EFFECT THE DELIVERED MIX PROPERTIES GREATLY WHILE OTHER PRODUCTS DO NOT.

THE CONTRACTOR SHOULD BE ADVISED THAT CONCRETE RETARDING AGENTS MAY NEED TO BE ADDED TO OFFSET THE EFFECTS OF THE MIGRATING CORROSION INHIBITOR SELECTED. THIS SPECIFICATION IS INTENDED FOR USE ON NON DECORATIVE BRIDGE RAILING. USE SELF-COMPACTING CONCRETE ON DECORATIVE RAILING SIMILAR TO TEXAS RAILING AND MACRO-SYNTHETIC CONCRETE PER THIS SPECIFICATION ON TRADITIONAL CONCRETE RAILING WHEN APPLICABLE.

ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

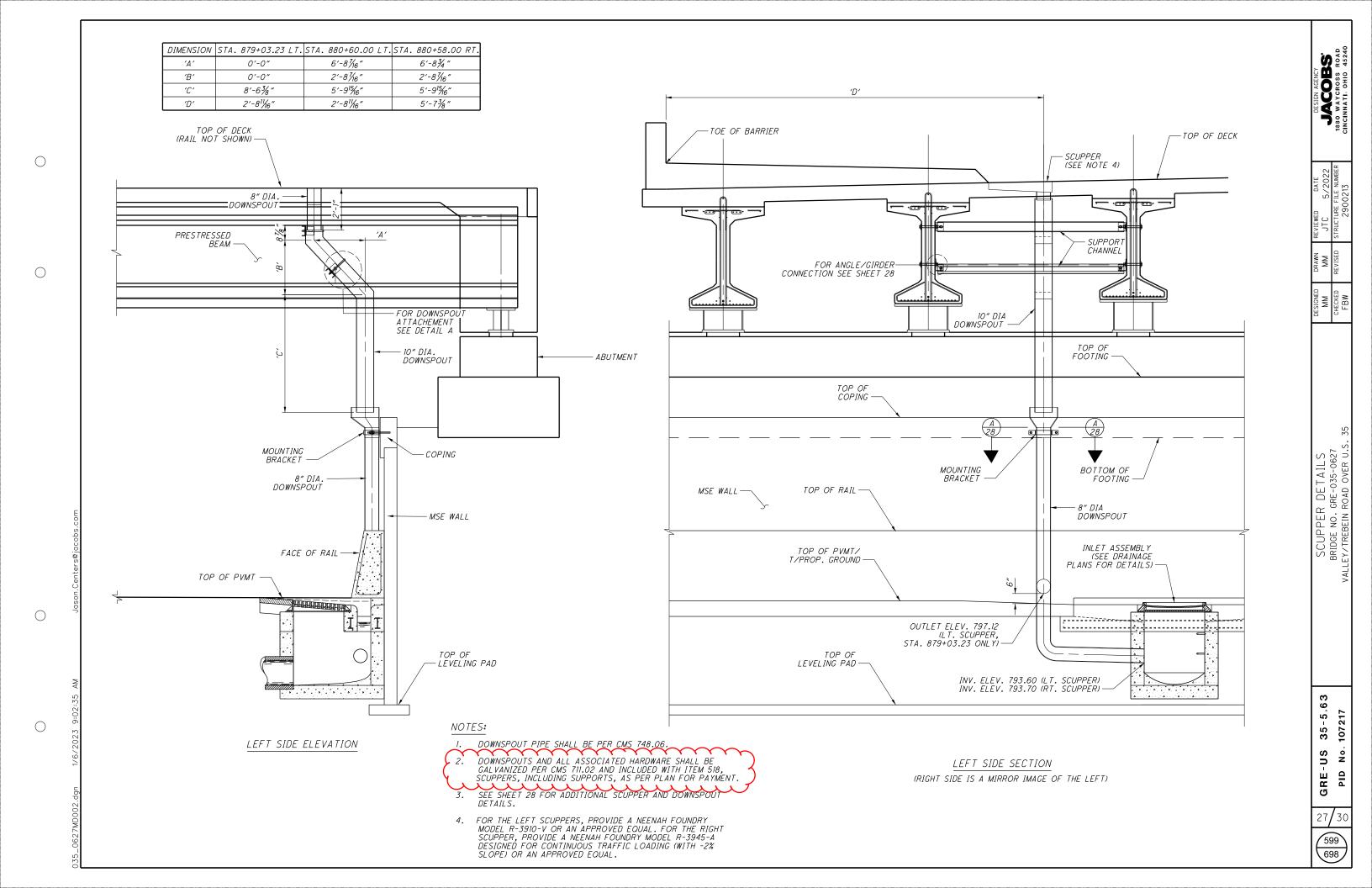
DUE TO THE RECENT SUPPLY SHORTAGES, THE DEPARTMENT HAS BEEN MADE AWARE OF DIFFICULTIES THAT SUPPLIERS ARE HAS BEEN MADE AWARE OF DIFFICULTIES THAT SUFFLIERS ARE HAVING IN OBTAINING THE NECESSARY MATERIALS FOR EPOXY. ON THIS PROJECT THE CONTRACTOR CAN USE TRADITIONAL EPOXY-URETHANE SEALERS APPROVED ON THE OPL OR ELECT TO SUBSTITUTE BRIDGE COTE XL-70 W/SILANE THAT IS LISTED ON THE APPROVED NOISE SUPPLIER LIST UNDER APPROVED SEALERS FOR NOISE BARRIERS. APPROVEDNOISESUPPLIERSLIST.PDF (OHIO.GOV)

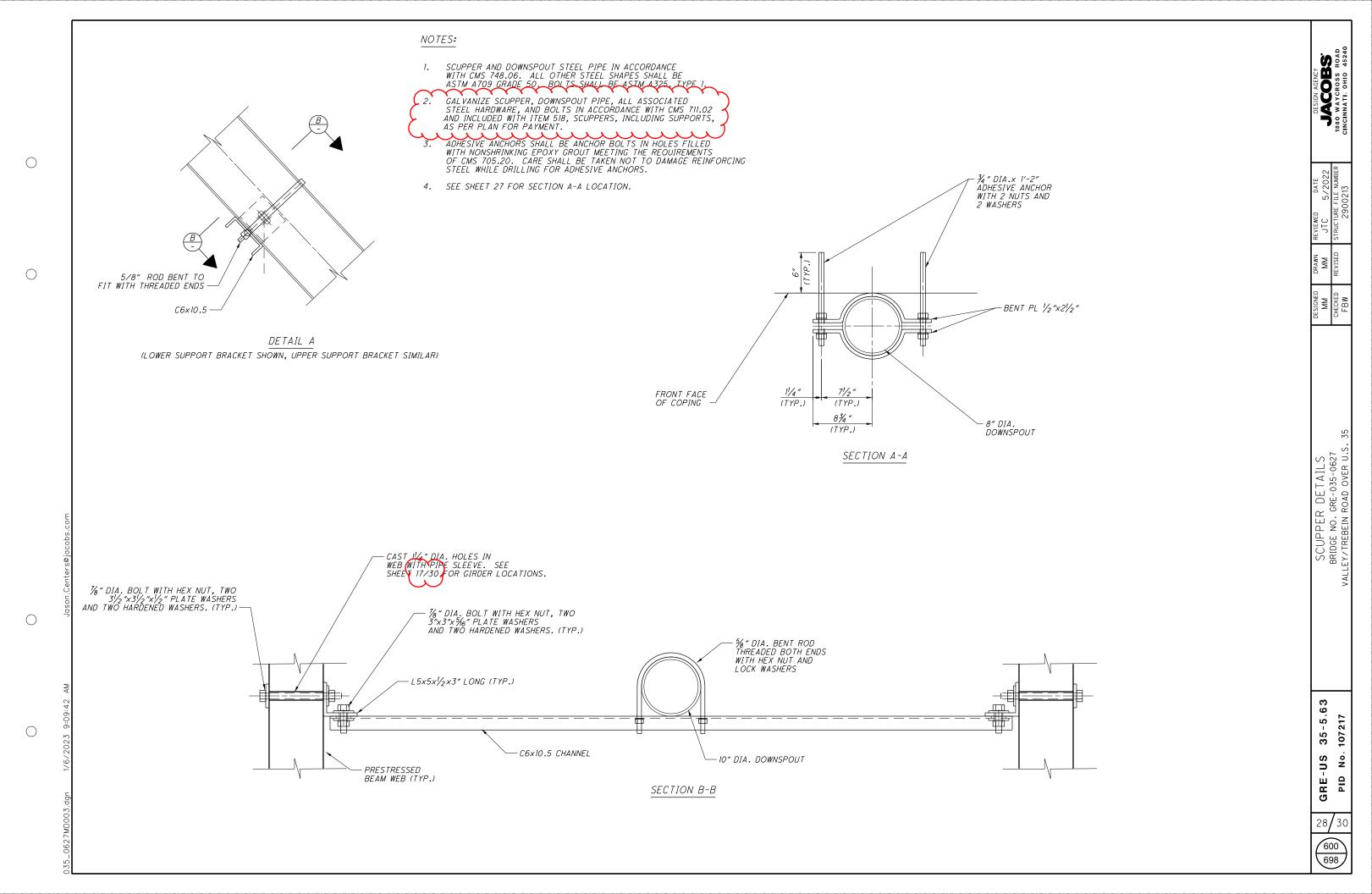
IF BRIDGE COTE XL-70 W/SILANE IS CHOSEN, MEET THE REQUIREMENTS OF THE BRIDGE COTE XL-70 W/SILANE TECHNICAL DATA SHEET WITH THE EXCEPTION OF THE SURFACE PREPARATION THAT WILL STILL FOLLOW THE REQUIREMENTS LISTED UNDER C&MS 512 FOR EPOXY URETHANE SEALERS.

PART.					ESTIMATED OUANTITIES						
02/NHS/BR	ITEM	EXT.	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER	GEN.	SHEE T	1 a a s
LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING		LS				No AD
LS	503	21300	LS		UNCLASSIFIED EXCAVATION		LS				AGENCY OB ROSS F
											JACOE 1880 WAYCROSS
LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION	LS	LS				Sign Sign
											ĕ ₹ ×
7010	507	00600	7010	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	5060	1950				
7450	507	00650	7450	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	5350	2100				- 5
198337	509	26000	198337	LB	GALVANIZED STEEL REINFORCEMENT	29535	31153	137649			
	$\widetilde{\lambda}$		\sim								REVIEWED DATE JTC 5/2022 STRUCTURE FILE NUMBER
ر کر کر	511	33500	\	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE	4		140			DATE / 202
148	511	34412	148	CY	CLASS OCC CONCRETE WITH OCXOA, SUPERSTRUCTURE			148		7 (70	57.2 FIE
436	511	34447	436	CY	CLASS OCZ CONCRETE WITH OC/OA, BRIDGE DECK, AS PER PLAN			436		3/30	I G
30	511	34451	30	CY	CLASS OCZ CONCRETE WITH OC/OA, BRIDGE DECK (PARAPET), AS PER PLAN		70	30		3/30	
70	511	41012	70	CY	CLASS OCI CONCRETE WITH OC/OA, PIER ABOVE FOOTINGS		70				REVIEWED JTC STRUCTURE
252	<i>E</i> 11	17510	252	CV	CLACC OCL CONCRETE WITH OC OA ABUTHENT INCLUDING FOOTING	252					E IS
252 63	511 511	43512 46512	252 63	CY	CLASS OCI CONCRETE WITH OC/OA, ABUTMENT INCLUDING FOOTING CLASS OCI CONCRETE WITH OC/OA, FOOTING	252	63				z e
97	511	51510	97		CLASS OCT CONCRETE, SIDEWALK		63	97			DRAWN MM REVISED
97	511	51510	97	CY	CLASS UCZ CONCRETE, SIDEWALK			97			g 8
682	512	10101	682	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	309	158	215		3/30	
002	312	10101	002	31	SLALING OF CONUNCIE SURFACES REFORT-UNETHANET, AS PER PLAN	303	100	213		3/30	MM CHECKED
8	515	15110	8	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS,			8			DESIG
0	515	15110	0	EACH	LEVEL 3, TYPE WF60-49 (104'-9" LONG)			0			<u> </u>
8	515	15110	8	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS,			8			
0	313	13110	0	EACH	LEVEL 3, TYPE WF60-49 (73'-0" LONG)			0			
28	515	20000	28	EACH	INTERMEDIATE DIAPHRAGMS			28			
20	313	20000	20	EACH	INTERMEDIATE DIAFTINAGMS			20			
10	516	13600	10	SF	1" PREFORMED EXPANSION JOINT FILLER			10			
101	516	13900	101	SF	2" PREFORMED EXPANSION JOINT FILLER	101		10			ls
204	516	14020	204	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	204					ľĽ
8	516	44101	8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE	8				22/30	QUANTITIE 2 2E
0	310	44101	0	EACH	(NEOPRENE), AS PER PLAN (14" x 21" X 2.5735" PAD WITH 16" x 25" 1.75" PL)	0				22/30	ᄂ
8	516	44101	8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE	8				22/30	₹
0	310	44101	0	EACH	(NEOPRENE), AS PER PLAN (14" x 19.5" X 2.5735" PAD WITH 16" x 25" 1.75" PL)	0				22/30	ى كا
16	516	44101	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE		16			22/30	ED 00627
10	310	44101	10	EACH	(NEOPRENE), AS PER PLAN (14" x 19.5" X 2.5735" PAD WITH 16" x 40" 1.75" PL)		10			22/30	
					INCOMENCY, AS TEN TEAM (14 X 13.3 X 2.3133 TAB #THT 10 X 40 1.13 TE)						ESTIMATED OU . GRE-035-0627
206	517	75120	206	FT	RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING)			206			
200	011	70720	200	l ' '	TRAILING COMMETE FAMALET WITH TWIN STEEL FORE MALLINGS			200			
3	518	12301	3	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN			3		27/30	
213	518	40000	213	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	213				21730	8 9 5
54	518	40010	54	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	54					= \square
- J	370	70070	37	l ' '	O NON TENIONATED COMMODATED PERSITO THE, INCLUDING SECIALS	37					ES
√ô ~~	523	20000	6	EACH	DXHAMIC LOAD IESING	4	- 2				BRIDGE NO. C
6	523	20500	6	EACH		4	2	1			>
VV	کٽ	کگ	ىنى	کت			\sim	\mathcal{L}			ۦ با
561	526	30011	561	SY	REINFORCED CONCRETE APPROACH SLABS WITH OC/OA (T=17"), AS PER PLAN				561	23/30	<u> </u> 2
79	526	90010	79	FT	TYPE A INSTALLATION			79		1	닏
											GENERAL
165	607	39910	165	FT	VANDAL PROTECTION FENCE, 8' STRAIGHT, COATED FABRIC			165			
165	607	39930	165	FT	VANDAL PROTECTION FENCE, 12' CURVED, COATED FABRIC			165			
20	608	53020	20	SF	DETECTABLE WARNING			20			
110	625	25504	110	FT	CONDUIT, 3", 725.051				110		
1	625	30706	1	EACH	PULL BOX, 725.08, 24"				1		၂ က
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1				_	CDEATH WICE TEMPORARY CURRULINGS			†	1.0	10.70	5.7
LS	690	98400	LS		SPECIAL - MISC.: TEMPORARY SURCHARGE				LS	2/30	1 1
	690	98400	LS		SPECIAL - MISC.: TEMPORARY SURCHARGE				LS	2/30	15-
·	690 846	98400 00110	LS 33	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM				33	2/30	0

3/30 698

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REF. NO.	SHEET NO.	STATION	SIDE	FENCE REMOVED	GATE REMOVED		FENCE, TYPE 47	FENCE REMOVED AND REBUILT	GROUND ROD				END POST ASSEMBLY (E.P.A.)	CORNER POST ASSEMBLY (C.P.A.)	ABUTMENT CONNECTION (A.C.)	INTERMEDIATE ANCHOR POST ASSEMBLY (I.A.P.)	DEFLECTION POINT (D.P.)	FENCE CROSSING, TYPE 2	FENCE CROSSING, TYPE 3	CALCULAT
		FROM TO		FT	EACH		FT	FT	EACH				EACH	EACH	EACH	EACH	EACH	EACH	EACH	
		US 35																		H
R-1 R-2	603 603	295+00.00 320+00.00 297+50.00 320+00.00		2500 2250																$\ $
F-1	603	295+00.00 320+00.00	LT				2500	7	12							6	1			$\ $
F-2	603	297+50.00 320+00.00					2250		12							5	2		2	$\ $
R-1 R-2 R-3	604 604 604	320+00.00 323+48.03 325+67.20 327+06.03 884+97.00 (TREBEIN RD) 889+00.00 (TREB 885+32.20 (TREBEIN RD) 345+00.00	IN RD) RT/LT	392 188 540	1															
R-4 R-5	604 604	320+00.00 323+48.03	RT	2026 383																
R-6 R-7	604 604	325+67.20 327+57.40 328+96.77 345+00.00		248 1604																
F-1	604	320+00.00 322+77.90	LT				341							1	1	1			1	:
F-2 F-3	604 604	322+79.01 323+48.03 325+67.20 326+47.77	LT LT				85 89						1 2	2	1				1	
F-4	604	326+47.68 886+88.84 (TREB	IN RD) LT				881 1844						2	2		2			3	
F-5 F-6	604 604	887+35.00 (TREBEIN RD) 345+00.00 320+00.00 323+48.03					440						2	1		2			1	╢ '
F-7 F-8	604 604	325+67.20 871+00.00 (VALL 871+00.00 (VALLEY RD) 345+00.00					1262 1491						2	2 1		2 2	1	1	1	1
R-1 R-2	605 605	345+00.00 365+00.00 345+00.00 365+00.00		2014 2005																
F-1 F-2	605 605	345+00.00 365+00.00 345+00.00 365+00.00					2000 2022		3 4				1	6		3 2	1	1		
1 -2	003	VALLEY/TREBEIN ROAD	TXI				2022		1 7								,			
R-1	606	888+00.00 897+90.97	RT	946	2															1
F-1	606	866+49.97 868+80.00	LT				230						2			1				
F-2 F-3	606 606	869+28.00 871+00.00 866+49.96 871+00.00			1	1	172 450		1				1							1
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