ROUNDING

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

UTILITIES

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

AEP - AERIAL DISTRIBUTION
ATTN: MR. PAUL PAXTON
850 TECH CENTER DR
GAHANNA, OH 43230
PHONE: (614) 883-6831
ptpaxton@aep.com

CENTURYLINK
ATTN: MS. DEE REED
441 WEST BROAD ST
PATASKALA, OH 43062
PHONE: (740) 927-8282
delores.a.reed@centurylink.com

AT&T - OHIO
ATTN: MR. MIKE LEE
111 NORTH 4TH ST - ROOM 802
COLUMBUS, OH 43215
PHONE: (614) 223-7162
ml3153@att.com

SPECTRUM
(FORMERLY CHARTER COMMUNICATIONS)
3760 INTERCHANGE DR
COLUMBUS, OH 43204
PHONE: (614) 225-6349
ATTN: MR. SAM LUTZ
PHONE: (614) 348-2966
ATTN: MR. KEVIN RICH
PHONE: (614) 481-5263
samuel.lutz@charter.com
kevin.rich1@charter.com

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.

UTILITY NOTIFICATION

THE ODOT CONTRACTOR IS REQUIRED TO CONTACT OHIO811 A MINIMUM OF 48 HOURS EXCLUDING WEEKENDS AND HOLIDAYS TO PERMIT ALL UNDERGROUND UTILITIES AN OPPORTUNITY TO MARK THEIR LINES. IT IS ALSO THE ODOT CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL NONMEMBERS OF OHIO811 ORG. DIRECTLY A MINIMUM OF 48 HOURS' NOTICE EXCLUDING WEEKENDS AND HOLIDAYS TO PROVIDE THEM WITH THE SAME OPPORTUNITY.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 7 PM AND 7 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

NON-RUBBER TIRE EQUIPMENT

NO NON-RUBBER TIRE VEHICLE SHALL BE MOVED ON STATE OR COUNTY ROADS. EXCEPTIONS MAY BE GRANTED BY AN AUTHORIZED STATE OR COUNTY OFFICIAL WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED FOR THE SATISFACTION OF THE STATE OR COUNTY.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2 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: ODOT VRS
MONUMNET TYPE: TYPE B

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: GEOID 12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83 (CONUS)(MOL)
ELLIPSOID: GRS 80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE - SOUTH ZONE
COMBINED SCALE FACTOR: 1.0000823770 (GRID TO GROUND)
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 MONUMNETS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN 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

THERE ARE TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT. A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

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 203.05. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF 203.05.

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.

2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO 204.05.

   IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.

3. COMPACT THE SUBGRADE ACCORDING TO 204.03.

4. APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSTABLE SUBGRADE. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

   PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO 204.06.

5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.

6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO 204.06 TO VERIFY STABILITY.

7. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204 EXCAVATION OF SUBGRADE.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 202 - REMOVAL, MISC.: ELECTRIC FENCE REMOVED,
ITEM 202 - REMOVAL, MISC.: ELECTRIC GATE REMOVED,

CONTRACTOR SHALL DISCONNECT THE POWER SOURCE TO THE ELECTRIC FENCE AND GATE PRIOR TO THEIR REMOVAL. THEIR MAY BE MULTIPLE SWITCHES FOR EACH WIRE ON THE FENCE AND GATE, DEPENDING ON THE INSTALLATION METHOD; TURN OFF ALL SWITCHES. TEST FOR CURRENT FLOW PRIOR TO REMOVAL. ONCE THE ELECTRIC FENCE AND GATE HAVE BEEN DISCONNECTED FROM THE POWER SOURCE AND FREE FROM ELECTRIC CURRENT THE CONTRACTOR SHALL REMOVE THE GATE AND FENCE AT LOCATIONS INDICATED IN THE PLANS. THESE ITEMS SHALL CONFORM TO ODOT CMS NO. 202.

PAYMENT SHALL BE MADE AT THE UNIT CONTRACT PRICE BID PER FOOT OF ITEM 202, REMOVAL MISC.: ELECTRIC FENCE REMOVED, AS PER PLAN AND UNIT CONTRACT PRICE BID PER EACH OF ITEM 202, REMOVAL MISC.: ELECTRIC GATE REMOVED, AS PER PLAN, WHICH SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO DISCONNECT ELECTRIC FENCE AND GATE FROM POWER SOURCE(S), ELECTRICAL TESTING, FENCE REMOVAL AND DISPOSAL.

ITEM 605 - AGGREGATE DRAINS

AGGREGATE DRAINS SHALL BE PLACED AT 50 FOOT INTERVALS ON EACH SIDE OF NORMAL CROWNED SECTIONS, STAGGERED SO THAT EACH DRAIN IS 25 FEET FROM THE ADJACENT DRAIN ON THE OPPOSITE SIDE, AND AT 25 FOOT INTERVALS ON THE LOW SIDE ONLY OF SUPER-ELEVATED SECTIONS. AN AGGREGATE DRAIN SHALL BE PLACED AT THE LOW POINT OF EACH SAG VERTICAL CURVE.

CALCULATED OOS CHECKED JLN

GENERAL NOTES

MAD-62-2.79

SHEET NUM.													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
				6	6A				42	43			01/STR/ BR		EXT	TOTAL			
																		STRUCTURE OVER 20 FOOT SPAN (MAD-62-2.79, SFN 4902131)	
										LS			LS	202	11003	LS		STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	42
										84			84	202	22900	84	SY	APPROACH SLAB REMOVED	
										875			875	202	23500	875	SY	WEARING COURSE REMOVED	
										LS			LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
										LS			LS	503	21300	LS		UNCLASSIFIED EXCAVATION	
										LS			LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION	
										800			800	507	00500	800	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	
										960			960	507	00550	960	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	
										1,080			1,080	507	00700	1,080	FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	
										1,200			1,200	507	00750	1,200	FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	
										105,854			105,854	509	10000	105,854	LB	EPOXY COATED REINFORCING STEEL	
										301			301	511	21522	301	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE	
										73			73	511	33418	73	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE	
										174			174	511	40512	174	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS	
										145			145	511	43512	145	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	
										88			88	511	46510	88	CY	CLASS QC1 CONCRETE, FOOTING	
										950			950	512	10050	950	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
										31			31	512	10300	31	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
										12			12	515	15080	12	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF42-49, L=93'-8"	
										27			27	515	20000	27	EACH	INTERMEDIATE DIAPHRAGMS	
										131			131	516	13200	131	SF	1/2" PREFORMED EXPANSION JOINT FILLER	
										242			242	516	13600	242	SF	1" PREFORMED EXPANSION JOINT FILLER	
										93			93	516	14014	93	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
										24			24	516	44101	24	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE)	54
																		2.88" X 14" X 20" WITH 15" X 21" LOAD PLATE, AS PER PLAN	
										579			579	517	70000	579	FT	RAILING (TWIN STEEL TUBE)	
										86			86	518	21200	86	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
										706			706	SPECIAL	51822300	706	FT	STEEL DRIP STRIP	
										115			115	518	40000	115	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
										53			53	518	40010	53	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
										2			2	523	20000	2	EACH	DYNAMIC LOAD TESTING	
										4			4	523	20500	4	EACH	RESTRIKE	
										178			178	526	25000	178	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")	
										69			69	526	90010	69	FT	TYPE A INSTALLATION	
										645			645	601	32110	645	CY	ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER	
																		MAINTENANCE OF TRAFFIC	
					530								530	407	20000	530	GAL	NON-TRACKING TACK COAT	
					260								260	441	50000	260	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
				16									16	614	11110	16	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
					LS								LS	614	12420	LS		DETOUR SIGNING	
					41								41	614	13000	41	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
				7									7	616	10000	7	MGAL	WATER	
					150								150	617	10100	150	CY	COMPACTED AGGREGATE	
					2								2	617	25000	2	MGAL	WATER	
					2.12								2.12	642	00300	2.12	MILE	CENTER LINE, TYPE 1	
																		INCIDENTALS	
				LS									LS	103	05000	LS		PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND	
													LS	614	11000	LS		MAINTAINING TRAFFIC	
													9	619	16010	9	MNTH	FIELD OFFICE, TYPE B	
													LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													LS	624	10000	LS		MOBILIZATION	

CALCULATED COM CHECKED DTB

GENERAL SUMMARY

MAD-62-2.79

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GENERAL NOTES - STRUCTURES

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING STANDARD DRAWINGS:

AS-1-15	REVISED 07-17-15	ICD-1-82	REVISED 07-19-02
AS-2-15	REVISED 01-18-19	PSID-1-13	REVISED 07-20-18
DS-1-92	REVISED 07-18-03	TST-1-99	REVISED 07-20-18

REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

800 DATED 04-19-19

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 8TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2017 AND THE ODOT BRIDGE DESIGN MANUAL, 2019.

LRFD LOAD MODIFIERS:

OPERATIONAL IMPORTANCE: A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

DESIGN LOADING:

DESIGN LOADING: HL-93

FUTURE WEARING SURFACE (FWS) OF 0.060 KIPS/FT^2

DESIGN STRESSES:

DESIGN DATA:

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

CONCRETE FOR PRESTRESSED BEAMS:

COMPRESSIVE STRENGTH (FINAL) - 7.0 KSI

COMPRESSIVE STRENGTH (RELEASE) - 6.0 KSI

WELDED WIRE FABRIC:

YIELD STRENGTH - 70 KSI

PRESTRESSING STRAND:

AREA = 0.217 IN^2

ULTIMATE STRENGTH = 270 KSI

INITIAL STRESS = 202.5 KSI (LOW RELAXATION STRANDS)

DECK PROTECTION METHOD:

EPOXY COATED REINFORCING STEEL

2 1/2" CONCRETE COVER

STEEL DRIP STRIP

MONOLITHIC WEARING SURFACE:

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

ITEM 202 - STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

REMOVE THE EXISTING STRUCTURE ENTIRELY ABOVE FINISHED GROUND AND ACCORDING TO ITEM 202 OF THE ODOT CMS EXCEPT FOR THE FOLLOWING.

REMOVE THE EXISTING ABUTMENTS TO 1 FT BELOW THE BOTTOM OF THE PROPOSED ROCK CHANNEL PROTECTION.

REMOVE THE EXISTING PIER NUMBER 1 ENTIRELY (EXCEPT FOR THE TIMBER PILES), INCLUDING THE CONCRETE FOOTING.

REMOVE THE EXISTING PIERS NUMBER 2 AND 3 TO THE TOP OF THE CONCRETE FOOTING.

PILE DESIGN LOADS (ULTIMATE BEARING VALUE):

THE ULTIMATE BEARING VALUE IS 319 KIPS PER PILE FOR THE VERTICAL REAR AND FORWARD ABUTMENT PILES. THE ULTIMATE BEARING VALUE IS 346 KIPS PER PILE FOR THE INTERMEDIATE PIER PILES, WHICH INCLUDES AN ADDITIONAL 4 KIPS PER PILE OF ULTIMATE BEARING VALUE DUE TO THE POSSIBILITY OF LOSING 6.2 FEET OF FRICTIONAL RESISTANCE DUE TO SCOUR.

ABUTMENT PILES:
12 INCH DIAMETER PILES 60 FEET LONG, ORDER LENGTH
1 DYNAMIC LOAD TESTING ITEM

PIER PILES:
16 INCH DIAMETER PILES 50 FEET LONG, ORDER LENGTH
1 DYNAMIC LOAD TESTING ITEM

DECK PLACEMENT DESIGN ASSUMPTIONS:

THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPIONS.

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.25 KIPS.

A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103 INCHES.

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 INCHES.

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65 INCHES.

EXISTING PLANS

EXISTING STRUCTURE PLANS ARE AVAILABLE FOR REVIEW AT THE DISTRICT 6 OFFICE.

ITEM SPECIAL - ASBESTOS NOTIFICATION

AN ASBESTOS SURVEY OF THE MAD-62-02.79 BRIDGE OVER DEER CREEK WAS COMPLETED IN JANUARY 2017 BY A CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST. NO ASBESTOS MATERIAL (ACM) WAS IDENTIFIED ON THE BRIDGE.

THE REMOVAL AND DISPOSAL OF ALL ASBESTOS CONTAINING MATERIAL WITHIN THE PROJECT WORK LIMITS DURING DEMOLITION OF THE BRIDGE MUST COMPLY WITH THE OHIO ADMINISTRATIVE CODE, THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS, AND THE NATIONAL EMISSION STANDARD FOR HAZARDOUS AIR POLLUTANTS (NESHAP) STANDARDS FOR ASBESTOS.

A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORMS WITH SECTIONS I-IV, VI, VII, AND XVI COMPLETED IS INCLUDED WITH THE BID PACKAGE. THE CONTRACTOR SHALL COMPLETE SECTIONS V, VIII-XVIII OF THE FORM AND SUBMIT THE COMPLETED FORM TO THE DISTRICT OFFICE AT LEAST TEN (10) DAYS PRIOR TO DEMOLITION OF THE BRIDGE. THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPETED FORM TO THE ENGINEER. THE DISTRICT OFFICE IS:

OHIO EPA/DAPC
CENTRAL DISTRICT OFFICE
P.O. BOX 1049
COLUMBUS, OHIO 43216
PHONE: (614) 728-3778

THE FOLLOWING ABBREVIATIONS ARE USED:

ABUT.	= ABUTMENT	INT.	= INTEGRAL
℄	= BASELINE	LT	= LEFT
BRG.	= BEARING	MAX.	= MAXIMUM
℄	= CENTERLINE	MIN.	= MINIMUM
C.J.	= CONSTRUCTION JOINT	N.F.	= NEAR FACE
CLR.	= CLEARANCE	N.S.	= NEAR SIDE
CMS	= CONSTRUCTION AND MATERIAL SPECIFICATION	PEJF	= PREFORMED EXPANSION JOINT FILLER
DIA.	= DIAMETER	ℙ	= PROPERTY LINE
EA.	= EACH	R.A.	= REAR ABUTMENT
E.F.	= EACH FACE	R/W	= RIGHT OF WAY
ELEV.	= ELEVATION	RT	= RIGHT
EX	= EXISTING	SER.	= SERIES
EXP.	= EXPANSION	SPA.	= SPACES
F.A.	= FORWARD ABUTMENT	STA.	= STATION
F.F.	= FAR FACE	STD	= STANDARD
F.S.	= FAR SIDE	TEMP.	= TEMPORARY
FT.	= FEET	TYP.	= TYPICAL
FWD	= FORWARD	SIM.	= SIMILAR
FWS	= FUTURE WEARING SURFACE		

DESIGN AGENCY
EUTHENICS INC.
CONSULTING ENGINEERS

DESIGNED	DRAWN	REVIEWED	DATE
LAB	VMB	RAB	06/20/19
CHECKED	REVISED	STRUCTURE FILE NUMBER	
AJM	-	4902131	

STRUCTURE GENERAL NOTES
MAD-62-02.79 BRIDGE
OVER DEER CREEK

MAD-62-2.79
PID No. 102577

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ESTIMATED QUANTITIES

CALC BY: AJM CHK'D BY: MMP

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	ABUTMENTS	PIERS	SUPER-STRUCTURE	GENERAL	AS PER PLAN SHEET NUMBERS
202	11003	LUMP		STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	2
202	22900	84	SY	APPROACH SLAB REMOVED				84	
202	23500	875	SY	WEARING COURSE REMOVED			875		
503	11100	LUMP		COFFERDAMS AND EXCAVATION BRACING				LUMP	
503	21300	LUMP		UNCLASSIFIED EXCAVATION	267 CY *	247 CY *			
505	11100	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION				LUMP	
507	00500	800	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	800				
507	00550	960	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	960				
507	00700	1080	FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN		1080			
507	00750	1200	FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED		1200			
509	10000	105,854	POUND	EPOXY COATED REINFORCING STEEL	9,967	19,051	76,848		
511	21522	301	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE			301		
511	33418	73	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE			73		
511	40512	174	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTING		174			
511	43512	145	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	145				
511	46510	88	CY	CLASS QC1 CONCRETE, FOOTING		88			
512	10050	950	SY	SEALING CONCRETE SURFACES (NON-EPOXY)	34	260	656		
512	10300	31	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN			31		
515	15080	12	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF42-49, L=93'-8"			12		
515	20000	27	EACH	INTERMEDIATE DIAPHRAGMS			27		
516	13200	131	SF	1/2" PREFORMED EXPANSION JOINT FILLER	131				
516	13600	242	SF	1" PREFORMED EXPANSION JOINT FILLER	242				
516	14014	93	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL			93		
516	44101	24	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE)	8	16			14
				2.88" X 14" X 20" WITH 15" X 21" LOAD PLATE, AS PER PLAN					
517	70000	579	FT	RAILING (TWIN STEEL TUBE)			579		
518	21200	86	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC				86	
SPECIAL	51822300	706	FT	STEEL DRIP STRIP			706		
518	40000	115	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	115				
518	40010	53	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	53				
523	20000	2	EACH	DYNAMIC LOAD TESTING				2	
523	20500	4	EACH	RESTRIKE				4	
526	25000	178	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")				178	
526	90010	69	FT	TYPE A INSTALLATION				69	
601	32110	645	CY	ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER				645	

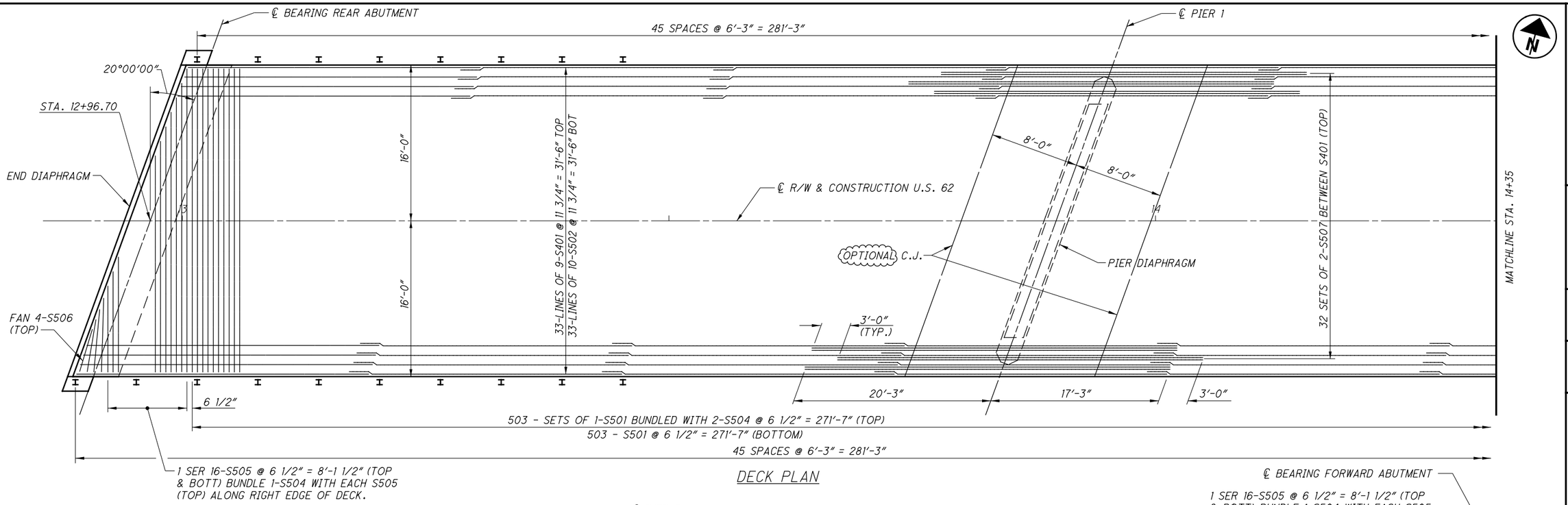
* UNCLASSIFIED EXCAVATION QUANTITIES ARE INCLUDED FOR INFORMATIONAL PURPOSES ONLY.

DESIGN AGENCY
EUTHENICS INC.
CONSULTING ENGINEERS

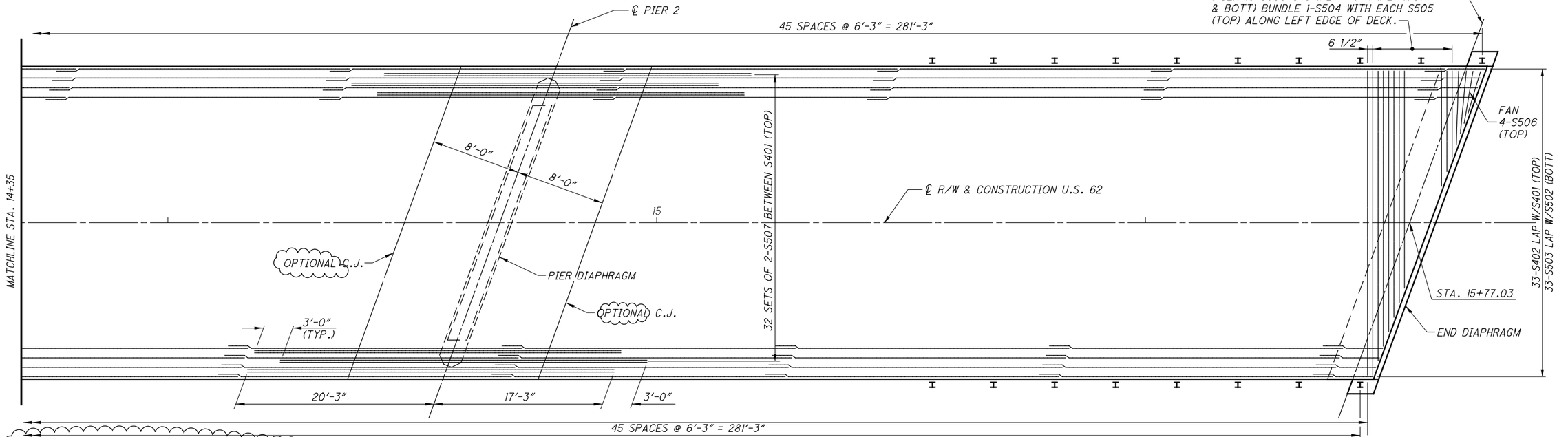
DESIGNED LAB | CHECKED AJM
DRAWN VMB | REVISED MMP
REVIEWED RAB | DATE 06/20/19
STRUCTURE FILE NUMBER 4902131

ESTIMATED QUANTITIES
MAD-62-02.79 BRIDGE
OVER DEER CREEK

MAD-62-2.79
PID No. 102577



DECK PLAN



DECK POUR SEQUENCE:

TWO OPTIONAL CONSTRUCTION JOINTS SPACED AT 8'-0", PARALLEL AND CENTERED ABOUT THE PIERS ARE SHOWN ON THE DECK PLAN IN ACCORDANCE WITH ODOT STANDARD DRAWING PSID-1-13, SHEET 10 / 10. DO NOT PLACE CONCRETE BETWEEN THESE CONSTRUCTION JOINTS PRIOR TO THE PLACEMENT OF CONCRETE IN EACH ADJACENT SPAN. UPON COMPLETION OF THE CONCRETE PLACEMENT IN THE ADJACENT SPANS, PLACE THE DIAPHRAGM AND DECK CONCRETE BETWEEN THE CONSTRUCTION JOINTS. SEAL THE JOINTS WITH HIGH MOLECULAR WEIGHT METHACRYLATE RESIN ACCORDING TO 511.22.

CONTINUOUS DECK POUR PROCEDURES, WHICH PROCEED FROM END TO END OF THE BRIDGE AND PLACE THE PIER DIAPHRAGM CONCRETE CONCURRENTLY WITH THE DECK CONCRETE, MAY BE APPROVED BY THE ENGINEER IF THE PLACEMENT SUBMITTAL CAN ASSURE THAT THE DECK CONCRETE IN ADJACENT SPANS WILL BE PLACED BEFORE THE PIER DIAPHRAGM CONCRETE HAS REACHED ITS INITIAL SET.

SEE ODOT STANDARD DRAWING PSID-1-13, SHEET 10 / 10 FOR MORE INFORMATION.

DECK PLAN

MINIMUM LAP LENGTH (UNLESS OTHERWISE NOTED)
#4 BAR = 1'-7"
#5 BAR = 2'-0"

NOTES:

1. FOR REINFORCING SCHEDULE, SEE SHEET 16/16.
2. FOR END DIAPHRAGM DETAILS, SEE SHEET 13/16.
3. FOR TWIN STEEL RAILING DETAILS, SEE ODOT STANDARD DRAWING TST-1-99.
4. FOR FINAL DECK ELEVATIONS, SCREED ELEVATIONS, AND TOP OF HAUNCH ELEVATIONS, SEE SHEET 11/16.
5. FOR PIER DIAPHRAGM DETAILS, SEE SHEET 9/16.
6. SEAL DECK CONSTRUCTION JOINTS WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

DESIGN AGENCY
EUTHENICS INC.
CONSULTING ENGINEERS

DESIGNED	DRAWN	REVIEWED	DATE
AJM	VMB	RAB	06/20/19
CHECKED	REVISED	STRUCTURE FILE NUMBER	
LAB	-	4902131	

DECK PLAN
MAD-62-02.79 BRIDGE
OVER DEER CREEK

MAD-62-2.79
PID No. 102577

12 / 16

52
66

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