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202E11003 STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

EXISTING DECK AREA =	8351.0115	SF	(1985 REHAB PLANS)		
ODOT ESTIMATING COST =	25	/sf (2013)			
CURRENT YEAR =	2025				
HISTORIC INFLATION =	1.37				
INFLATED UNIT COST =	34.28	/sf			
ESTIMATED COST =	$287,000.00	LS	SAY	1	LS
REMOVAL OF THE ORIGINAL BRIDGE ABUTMENT =	$10,000.00	LS			
ESTIMATED COST =	**$297,000.00**		**SAY =**	**$300,000.00**	**LUMP**

202E22900 APPROACH SLAB REMOVED

LENGTH =	25	FT			
WIDTH =	31.33	FT			
NUMBER OF APPROACH SLABS =	2				
AREA =	**174.06**	**SY**	**SAY =**	**175**	**SY**

202E23500 WEARING COURSE REMOVED

LENGTH =	316.55	FT			
WIDTH =	31.33	FT			
AREA =	**1101.95**	**SY**	**SAY =**	**1102**	**SY**

203E20001 EMBANKMENT, AS PER PLAN

REAR ABUTMENT

VOLUME =	**15070.00**	**CF**	**(CADD Measured)**		

FORWARD ABUTMENT

VOLUME =	**18875.00**	**CF**	**(CADD Measured)**		
TOTAL VOLUME (CY) =	**33,945.00**	**CF**			
TOTAL VOLUME (CF) =	**1257.22**	**CY**	**SAY =**	**1258**	**CY**

203E35120 GRANULAR MATERIAL, TYPE C

PER STD DWG WU-1-26, "FILL THE VOIDS UP TO 12 INCHES IN RCP WITH GRANULAR MATERIAL, TYPE C"

REAR ABUTMENT

LENGTH =	**117.96**	**FT**
WIDTH =	**3.00**	**FT**
THICKNESS =	**1.00**	**FT**
VOLUME (CF) =	**353.88**	**CF**

FORWARD ABUTMENT

LENGTH =	**129.62**	**FT**
WIDTH =	**3.00**	**FT**
THICKNESS =	**1.00**	**FT**
VOLUME (CF) =	**388.85**	**CF**
TOTAL VOLUME (CF) =	**742.74**	**CF**

ASSUME 75% OF THE VOLUME ARE VOIDS TO BE FILLED WITH GRANULAR MATERIAL, TYPE C

TOTAL VOLUME (CF) =	**557.05**	**CF**			
TOTAL VOLUME (CY) =	**20.63**	**CY**	**SAY =**	**21**	**CY**

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204E50001 GEOTEXTILE FABRIC, AS PER PLAN

PER STD DWG WU-1-26, "GEOTEXTILE FABRIC SHALL BE PLACED UNDER AND ON BOTH SIDES OF THE STABILIZED CRUSHED AGGREGATE."

REAR ABUTMENT

LENGTH =	**117.96**	**FT**		
PERIMETER =	**4.00**	**FT**		
AREA =	**471.85**	**SF**		

FORWARD ABUTMENT

LENGTH =	**129.62**	**FT**		
PERIMETER =	**4.00**	**FT**		
AREA =	**518.47**	**SF**		
TOTAL AREA (SF) =	**990.31**	**SF**		
TOTAL AREA (SY) =	**110.03**	**SY**	**SAY =**	**111 SY**

411E10000 STABILIZED CRUSHED AGGREGATE

REAR ABUTMENT

LENGTH =	**117.96**	**FT**		
WIDTH =	**3.00**	**FT**		
THICKNESS =	**6.00**	**INCHES**		
VOLUME (CF) =	**176.94**	**CF**		

FORWARD ABUTMENT

LENGTH =	**129.62**	**FT**		
WIDTH =	**3.00**	**FT**		
THICKNESS =	**6.00**	**INCHES**		
VOLUME (CF) =	**194.43**	**CF**		
TOTAL VOLUME (CF) =	**371.37**	**CF**		
TOTAL VOLUME (CY) =	**13.75**	**CY**	**SAY =**	**14 CY**

503E11100 COFFERDAMS AND EXCAVATION BRACING

** CAD AREAS AND METHOD OF MEASUREMENTS PER CMS 503.09. ALL EXCAVATION (SOIL VS ROCK) TO BE INCLUDED WITHIN SAME ITEM*

**INCLUDES TEMPORARY ACCESS FILL

LUMP COST =	**$50,000.00**	**SAY =**	**$50,000.00**

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503E21301 UNCLASSIFIED EXCAVATION, AS PER PLAN

** CAD AREAS AND METHOD OF MEASUREMENTS PER CMS 503.09. ALL EXCAVATION (SOIL VS ROCK) TO BE INCLUDED WITHIN SAME ITEM*

REAR ABUTMENT

TOTAL EXCAVATION VOLUME =		1700.00	CY	(CADD Measured)
FOOTING CONCRRETE VOLUME =		180.65	CY	
ABUT&WW CONCRETE =		57.58	CY	
AVERAGE POROUS BACKFILL VOLUME =		53.89	CY	
AVERAGE RCP VOLUME ABOVE FOOTING HEEL =		161.67	CY	
TOTAL 1 =		453.79	CY	
TOTAL VOLUME OF PUT BACK =		1250.00	CY	
UNIT COST FOR REMOVAL =	$	15.00	$/CY	
UNIT COST FOR PUT BACK =	$	20.00	$/CY	
TOTAL =	$	50,500.00		

FWD ABUTMENT

VOLUME =		2055.00	CY	(CADD Measured)
FOOTING CONCRRETE VOLUME =		198.99	CY	
ABUT&WW CONCRETE =		34.05	CY	
AVERAGE POROUS BACKFILL VOLUME =		37.19	CY	
AVERAGE RCP VOLUME ABOVE FOOTING HEEL =		111.56	CY	
TOTAL 1 =		381.78	CY	
TOTAL VOLUME OF PUT BACK =		1675.00	CY	
UNIT COST FOR REMOVAL =	$	15.00	$/CY	
UNIT COST FOR PUT BACK =	$	20.00	$/CY	
TOTAL =	$	64,325.00		

TOTAL COST =	**$**	**114,825.00**	**CY**	**SAY =**	**1**	**LS**

509E10000 EPOXY COATED STEEL REINFORCEMENT

SUPERSTRUCTURE REBARS =	47669	LBS
ABUTMENT DIAPHRAGM REBARS =	9497	LBS
FOOTING REBARS =	37823	LBS
WINGWALL REBARS =	29662	LBS
ABUTMENT REBARS =	9873	LBS
SUPERSTRUCTURE =	57,166	CY
SUBSTRUCTURE =	77,358	CY

TOTAL VOLUME =	**134,524**	**LBS**	**SAY =**	**134524**	**LBS**

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511E34446 CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK

DECK AREA (BETWEEN FRONT FACE OF DIAPHRAGM) =	5639.08	SF	(CADD Measured)	
LEFT OVERHANG AREA (BETWEEN FRONT FACE OF DIAPHRAGM) =	475.85	SF	(CADD Measured)	
RIGHT OVERHANG AREA (BETWEEN FRONT FACE OF DIAPHRAGM) =	373.90	SF	(CADD Measured)	
DECK THICKNESS =	0.71	FT		
OVERHANG DECK THICKNESS =	0.96	FT		
HAUNCH WIDTH =	1.67	FT		
AVERAGE HAUNCH THICKNESS =	0.23	FT		
NUMBER OF HAUNCHES =	3.00			
SPAN LENGTH (FROM FACE OF DIAPHRAGM) =	177.00	FT		
TOTAL DECK VOLUME =	5012.43	CF		
REAR ABUTMENT DIAPHRAGM				
3'-0" WIDE ELEVATIONAL AREA (EXCLUDING APPROACH SLAB SEAT) =	299.12	SF	(CADD Measured)	
WIDTH =	3.00	FT		
2'-6" WIDE ELEVATIONAL AREA (APPROACH SLAB SEAT) =	59.43	SF		
WIDTH =	2.50	FT		
REAR ABUTMENT DIAPHRAGM VOLUME =	1045.91	CF		
FORWARD ABUTMENT DIAPHRAGM				
3'-0" WIDE ELEVATIONAL AREA (EXCLUDING APPROACH SLAB SEAT) =	286.61	SF	(CADD Measured)	
WIDTH =	3.00	FT		
2'-6" WIDE ELEVATIONAL AREA (APPROACH SLAB SEAT) =	56.33	SF		
WIDTH =	2.50	FT		
FORWARD ABUTMENT DIAPHRAGM VOLUME =	1000.67	CF		
TOTAL VOLUME =	261.44	CY		
TOTAL =	**261.44**	**CY**	**SAY**	**262 CY**

511E33500 SEMI-INTEGRAL DIAPHRAGM GUIDE

ONE AT EACH ABUTMENT

TOTAL =	**2.00**	**EACH**	**SAY**	**2 EACH**

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511E44112 CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING

STEM WIDTH =	3	FT			
REAR ABUTMENT ELEVATIONAL AREA =	478.25	SF	(CADD Measured)		
FWD ABUTMENT ELEVATIONAL AREA =	573.36	SF			
VOLUME =	3154.84	CF			
WINGWALL 1:					
PLAN AREA OF FLAT PORTION =	5.80	SF			
DEPTH =	18.12	ft			
VOLUME =	105.04	CF			
SLOPED PORTION AREA =	626.03	ft			
STEM THICKNESS =	1.5	ft			
VOLUME =	939.05	CF			
WINGWALL 2:					
PLAN AREA OF FLAT PORTION =	9.77	SF			
DEPTH =	19.47	ft			
VOLUME =	190.13	CF			
SLOPED PORTION AREA =	291.42	ft			
STEM THICKNESS =	1.5	ft			
VOLUME =	437.13	CF			
WINGWALL 3:					
PLAN AREA OF FLAT PORTION =	4.83	SF			
DEPTH =	22.09	ft			
VOLUME =	106.78	CF			
SLOPED PORTION AREA =	784.29	ft			
STEM THICKNESS =	1.5	ft			
VOLUME =	1176.44	CF			
WINGWALL 4:					
PLAN AREA OF FLAT PORTION =	6.94	SF			
DEPTH =	20.74	ft			
VOLUME =	144.02	CF			
SLOPED PORTION AREA =	539.58	ft			
STEM THICKNESS =	1.5	ft			
VOLUME =	809.37	CF			
TOTAL =	**262.00**	**CY**		**SAY**	**262 CY**

511E46512 CLASS QC1 CONCRETE WITH QC/QA, FOOTING

REAR ABUTMENT FOOTING AREA =	1625.81	SF	CADD Measured		
FWD ABUTMENT FOOTING AREA =	1790.90	SF	CADD Measured		
FOOTING THICKNESS =	3.00	ft			
Vol	10250.15	CF			
Total	**380.00**	**CY**		**SAY**	**380 CY**

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512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

DECK:				
LEFT EDGE HEIGHT (DECK) =	1.67	FT		
LEFT OVRHANG BOTTOM AREA =	475.85	SF		
LEFT EDGE LENGTH (DECK) =	175.62	FT		
AREA =	768.56	SF		
RIGHT EDGE HEIGHT (DECK) =	1.67	FT		
RIGHT OVRHANG BOTTOM AREA =	373.90	SF		
RIGHT EDGE LENGTH (DECK) =	176.83	FT		
DECK SEALING AREA =	668.62	SF		
	160.00	**SY**		
ABUTMENT:				
REAR ABUTMENT SEALING AREA =	640.80	SF	CADD Measured	
FWD ABUTMENT SEALING AREA =	751.45	SF	CADD Measured	
WINGWALL:				
WINGWALL 1 FRONT AREA =	394.07	SF	CADD Measured	
WINGWALL 1 TOP/BACK AREA =	96.52	SF	CADD Measured	
WINGWALL 2 FRONT AREA =	234.39	SF	CADD Measured	
WINGWALL 2 TOP/BACK AREA =	54.41	SF	CADD Measured	
WINGWALL 3 FRONT AREA =	435.63	SF	CADD Measured	
WINGWALL 3 TOP/BACK AREA =	96.38	SF	CADD Measured	
WINGWALL 4 FRONT AREA =	397.92	SF	CADD Measured	
WINGWALL 4 TOP/BACK AREA =	84.86	SF	CADD Measured	
ABUTMENT SEALING AREA =	**355.00**	**SY**		
TOTAL =	**515.00**	**SY**	**SAY**	**515 SY**

512E33000 TYPE 2 WATERPROOFING

WATERPROOFING WIDTH =	3.00	FT		
REAR ABUTMENT WW1 =	47.63	FT		
REAR ABUTMENT WW2 =	24.35	FT		
FWD ABUTMENT WW3 =	45.03	FT		
FWD ABUTMENT WW4 =	37.72	FT		
AREA =	464.17	SF		
TOTAL =	**52.00**	**SY**	**SAY**	**52 SY**

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513E10280 STRUCTURAL STEEL MEMBERS, LEVEL 4

	SECTION 1	SECTION 2	
TOP FLANGE THICKNESS (tf) =	20	20	IN
TOP FLANGE WIDTH (bf) =	1.625	1	IN
WEB HEIGHT (Dw) =	72	72	IN
WEB THICKNESS (tw) =	0.6875	0.6875	IN
BOTTOM FLANGE WIDTH (bf) =	20	20	IN
BOTTOM FLANGE THICKNESS (tf) =	3	1.75	IN
Area	0.986111111	0.725694444	SF
Length	90	91.58332	FT
Unit Weight	490	490	LB/FT
Weight	43487.5	32566.1382	LB/GRD

Total	76,053.64	LB/GRD
# of Girders	4	
TOTAL GIRDER WEIGHT =	304,214.55	LB

INTERMEDIATE CROSSFRAMES
L5x5x1/2

UNIT WEIGHT =	16.2	KIP/FT
LENGTH =	28.11	FT
WEIGHT =	455.382	LB

STIFFENERS

AREA =	5.3387	SF
THICKNESS =	0.375	INCHES
UNIT WEIGHT =	490	LB/CF
NUMBER =	2	EACH
WEIGHT =	163.4976875	LB

FILL PLATE

AREA =	0.173611111	SF
THICKNESS =	0.375	INCHES
UNIT WEIGHT =	490	LB/CF
WEIGHT =	2.658420139	LB

TOTAL CROSSFRAME WEIGHT (EXCLUDING HARDWARE) =	621.5381076	LB
ADD 3% FOR NUTS, BOLTS, WASHERS =	18.64614323	LB
TOTAL CROSSFRAME WEIGHT (INCLUDING HARDWARE) =	640.1842509	LB
NUMBER OF CROSSFRAMES =	24	
TOTAL WEIGHT OF ALL CROSSFRAMES =	15,364.42	LB

SPLICES

UNIT WEIGHT =	490	LB/CF

WEB PLATE

HEIGHT =	5.58	FT
WIDTH =	1.71	FT
THICKNESS =	0.03	FT
NUMBER =	2.00	EACH
WEIGHT =	292.11	LB

TOP OUTER PLATE

HEIGHT =	3.71	FT
WIDTH =	1.67	FT
THICKNESS =	0.08	FT
WEIGHT =	252.35	LB

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513E10280 STRUCTURAL STEEL MEMBERS, LEVEL 4 (CONTINUED)

TOP FILLER PLATE					
HEIGHT =	1.67	FT			
WIDTH =	1.83	FT			
THICKNESS =	0.05	FT			
WEIGHT =	77.98	LB			
TOP INNER PLATE					
HEIGHT =	3.71	FT			
WIDTH =	0.71	FT			
THICKNESS =	0.09	FT			
NUMBER =	2	EACH			
WEIGHT =	241.33	LB			
BOTTOM OUTER PLATE					
HEIGHT =	5.71	FT			
WIDTH =	1.67	FT			
THICKNESS =	0.09	FT			
WEIGHT =	437.03	LB			
BOTTOM FILLER PLATE					
HEIGHT =	2.83	FT			
WIDTH =	1.67	FT			
THICKNESS =	0.10	FT			
WEIGHT =	241.02	LB			
BOTTOM INNER PLATE					
HEIGHT =	5.71	FT			
WIDTH =	0.71	FT			
THICKNESS =	0.10	FT			
NUMBER =	2	EACH			
WEIGHT =	412.76	LB			
TOTAL SPLICE WEIGHT =	1,954.58	LB			
ADD 5% FOR NUTS, BOLTS, AND WASHERS =	97.73	LB			
TOTAL WEIGHT PER SPLICE =	2,052.31	LB			
NUMBER OF GIRDERS =	4	EACH			
NUMBER OF SPLICE LOCATIONS =	2.00	EACH			
TOTAL WEIGHT OF ALL SPLICES =	16,418.47	LB			
BEARING STIFFENERS					
ELEVATIONAL AREA =	3.98	SF			
THICKNESS =	0.08333	FT			
WEIGHT =	162.62	LB			
NUMBER OF GIRDERS =	4.00	EACH			
NUMBER OF BEARINGS STIFFENERS PER GIRDER =	4.00	EACH			
TOTAL BEARING STIFFENER WEIGHT =	2,601.89	LB			
TOTAL STRUCTURAL STEEL WEIGHT	**338,599.33**	**LBS**	**SAY**	**338,600**	**LBS**

513E20000 WELDED STUD SHEAR CONNECTORS

NUMBER OF SHEAR STUDS PER BEAM =	906				
NUMBER OF BEAMS =	4				
TOTAL SHEAR STUDS =	**3624.00**	**EA**	**SAY**	**3624**	**EA**

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514E00060 FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT

514E00066 FIELD PAINTING STRUCTURAL STEEL, FINISH COAT

*** ONLY APPLICABLE TO EXPOSED PORTIONS OF THE BEAM, CONCRETE ENCASED ENDS WILL ONLY BE SHOP PRIMED*

PAINTED GIRDER PERIMETER (END SECTION) =	9.81	FT	
LENGTH OF GIRDER ENCASED IN CONCRETE 1 =	3.30	FT	
LENGTH OF GIRDER ENCASED IN CONCRETE 2 =	2.00	FT	
TOTAL OF GIRDER ENCASED IN CONCRETE =	5.31	FT	
TOTAL EXPOSED GIRDER LENGTH (END SECTION, BOTH G1 AND G4) =	172.55	FT	(MEASURED FROM FACE TO FACE OF REAR DIAPHRAGM TO END (
TOTAL GIRDER AREA OF END SECTION =	**1692.87**	**SF**	
PAINTED GIRDER PERIMETER (MIDDLE SECTION) =	10.02	FT	
TOTAL EXPOSED GIRDER LENGTH (MIDDLE SECTION, BOTH G1 AND G4) =	180.00	FT	(MEASURED FROM FACE TO FACE OF REAR DIAPHRAGM TO END (
TOTAL GIRDER AREA OF MIDDLE SECTION =	**1803.44**	**SF**	
ADDITIONAL BEAM PERIMETER TO BE PAINTED @ SPLICE LOCATIONS =	5.73	FT	
ADDITIONAL SPLICE PLATES TO BE FIELD PAINTED =	0.84	FT	
SPLICE WIDTH =	5.71	FT	
# OF SPLICE LOCATIONS =	4.00		
TOTAL ADDITIONAL SPLICE AREA =	**150.15**	SF	
TOTAL AREA =	**3646.46**	SF	**SAY** **3647 SF**

516E13600 1" PREFORMED EXPANSION JOINT FILLER

REAR ABUTMENT:			
HEIGHT =	1.42	FT	(APPROACH SLAB HEIGHT)
WIDTH =	0.63	FT	(APPRAOCH SLAB SEAT WIDTH)
FWD ABUTMENT:			
HEIGHT =	1.42	FT	(APPROACH SLAB HEIGHT)
WIDTH =	0.63	FT	(APPRAOCH SLAB SEAT WIDTH)
AREA =	1.80	SF	
TOTAL =	**2.00**	**SF**	**SAY** **2 SF**

516E13900 2" PREFORMED EXPANSION JOINT FILLER

WINGWALL 1			
TOP OF WINGWALL ELEVATION =	914.62		
TOP OF FOOTING ELEVATION	896.50		
WIDTH =	1.90	FT	
AREA =	34.49	SF	
WINGWALL 2			
TOP OF WINGWALL ELEVATION =	915.97		
TOP OF FOOTING ELEVATION	896.50		
WIDTH =	1.90	FT	
AREA =	37.06	SF	
WINGWALL 3			
TOP OF WINGWALL ELEVATION =	916.59		
TOP OF FOOTING ELEVATION	894.50		
WIDTH =	1.90	FT	
AREA =	42.05	SF	
WINGWALL 4			
TOP OF WINGWALL ELEVATION =	914.62		
TOP OF FOOTING ELEVATION	896.50		
WIDTH =	1.90	FT	
AREA =	34.49	SF	
TOTAL AREA =	148.09	SF	
DIAPHRAGM GUIDE:			
DIAPHRAGM GUIDE PERIMETER =	7.00	FT	
DIAPHRAGM GUIDE LENGTH =	3.81	FT	
NUMBER OF DIAPHRAGM GUIDES =	2	EACH	
TOTAL 2 =	53.30	SF	
TOTAL =	**201.00**	**SF**	**SAY** **201 SF**

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516E14020 SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL

REAR ABUTMENT =	84.04	FT		
FWD ABUTMENT =	87.44	FT		
TOTAL =	**171.48**	**FT**	**SAY**	**172 FT**

516E44201 ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17"x17"x 3 1/4")

NUMBER OF GIRDERS =	4.00	EACH		
NUMBER OF BEARINGS PER GIRDER =	2.00			
TOTAL =	**8.00**	**EACH**	**SAY**	**8 EACH**

517E70100 RAILING (THREE STEEL TUBE BRIDGE RAILING)

LEFT RAILING LENGTH =	188.34	FT		
RIGTH RAILING LENGTH =	188.32	FT		
TOTAL =	**377.00**	**FT**	**SAY**	**377 FT**

518E21200 POROUS BACKFILL WITH GEOTEXTILE FABRIC

REAR ABUT POROUS BACKFILL AREA =	793.07	SF		
FWD ABUT POROUS BACKFILL AREA =	872.33	SF		
WINGWALL 1 POROUS BACKFILL AREA =	640.14	SF		
WINGWALL 2 POROUS BACKFILL AREA =	383.01	SF		
WINGWALL 3 POROUS BACKFILL AREA =	803.51	SF		
WINGWALL 4 POROUS BACKFILL AREA =	545.56	SF		
THICKNESS =	2.00	FT		
TOTAL =	**299.08**	**CY**	**SAY**	**300 CY**

518E22300 SPECIAL - STEEL DRIP STRIP

UPPER DRIP STRIP				
TOTAL NUMBER OF BRIDGE RAILING POSTS =	46	EACH		
LENGTH OF UPPER DRIP STRIP =	2.00	FT		
TOTAL LENGTH OF UPPER DRIP STRIP =	92.00	FT		
LOWER DRIP STRIP				
LEFT EDGE LENGTH =	175.62	FT		
RIGHT EDGE LENGTH =	176.83	FT		
TOTAL =	**444.45**	**FT**	**SAY**	**445 FT**

518E40000 6" PERFORATED CORRUGATED PLASTIC PIPE

REAR ABUTMENT PCPP LENGTH =	111.29	FT	CADD Measured	
FWD ABUTMENT PCPP LENGTH =	123.12	FT	CADD Measured	
TOTAL =	**234.40**	**FT**	**SAY**	**235 FT**

518E40012 6" NON-PERFORATED CORRUGATED PLASTIC PIPE

REAR ABUTMENT PCPP LENGTH =	37.08	FT	CADD Measured	
FWD ABUTMENT PCPP LENGTH =	36.92	FT	CADD Measured	
TOTAL =	**74.00**	**FT**	**SAY**	**75 FT**

524E94604 DRILLED SHAFTS, 30" DIAMETER, INTO BEDROCK

REAR FOOTING DRILLED SHAFTS =	20.00	TOTAL		
AVG ESTIMATED LENGTH =	5.00	FT		
FWD FOOTING DRILLED SHAFTS =	22.00	TOTAL		
AVG ESTIMATED LENGTH =	5.00	FT		
TOTAL =	**210.00**	**FT**	**SAY**	**210 FT**

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524E94702 DRILLED SHAFTS, 36" DIAMETER, ABOVE BEDROCK

REAR FOOTING DRILLED SHAFTS =	20.00	TOTAL		
AVG ESTIMATED LENGTH =	33.20	FT		
FWD FOOTING DRILLED SHAFTS =	22.00	TOTAL		
AVG ESTIMATED LENGTH =	35.80	FT		
TOTAL =	**1451.60**	**FT**	**SAY**	**1455 FT**

526E30011 REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17"), AS PER PLAN

APPROACH SLAB WIDTH =	32.00	FT		
APPROACH SLAB LENGTH =	30.00	FT		
NUMBER OF APPROACH SLABS =	2.00	EACH		
TOTAL =	**213.33**	**SY**	**SAY**	**214 SY**

526E90010 TYPE A INSTALLATION

REAR APPROACH LENGTH =	42.06	FT		
FWD APPROACH LENGTH =	39.36	FT		
TOTAL =	**81.42**	**FT**	**SAY**	**82 FT**

601E32100 ROCK CHANNEL PROTECTION, TYPE B WITH FILTER

REAR ABUTMENT RCP AREA =	4732.88	SF		
FWD ABUTMENT RCP AREA =	5866.74	SF		
THICKNESS =	2.50	FT		
TOTAL =	**981.45**	**CY**	**SAY**	**982 CY**

625E33000 STRUCTURE GROUNDING SYSTEM

TOTAL =	**1.00**	**EA**	**SAY**	**1 EA**

846E00110 POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM

WIDTH =	20.00	IN		
THICKNESS =	3.00	IN		
APPROACH SLAB WIDTH =	40.61	FT		
NUMBER OF APPROACH SLABS =	2.00	EACH		
TOTAL =	**33.84**	**CF**	**SAY**	**34 CF**

894E10000 THERMAL INTEGRITY PROFILING (TIP) TEST

NUMBER OF TESTS AT REAR ABUTMENT =	2.00	EA		
NUMBER OF TESTS AT FWD ABUTMENT =	2.00	EA		
TOTAL =	**4.00**	**EA**	**SAY**	**4 EA**