

ESTIMATED QUANTITIES				
ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION
202	11203	LS	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN
202	11305	1,814	SY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
202	22901	766	SY	APPROACH SLAB REMOVED, AS PER PLAN
257	10001	100	SY	DIAMOND GRINDING PORTLAND CEMENT CONCRETE PAVEMENT, AS PER PLAN
503	11100	LS	LS	COFFERDAMS AND EXCAVATION BRACING
503	21101	68	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN
509	10000	466,071	LB	EPOXY COATED REINFORCING STEEL
510	10000	2,500	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT
511	33501	4	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN
511	34413	172	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN
511	34447	1,038	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK, AS PER PLAN
511	34451	189	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN
511	50211	68	CY	CLASS QC1 CONCRETE, SUBSTRUCTURE, AS PER PLAN
512	10101	2,432	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN
512	33300	11	SY	TYPE A WATERPROOFING
513	20000	12,832	EACH	WELDED STUD SHEAR CONNECTORS
513	95030	85	EACH	STRUCTURAL STEEL, MISC.: INTERMEDIATE CROSSFRAMES
513	95030	240	EACH	STRUCTURAL STEEL, MISC.: FATIGUE RETROFIT
513	95030	19	EACH	STRUCTURAL STEEL, MISC.: TEMPORARY CROSSFRAMES FOR MAINTENANCE OF TRAFFIC
514	00050	38,603	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL
514	00056	38,603	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT
514	00060	38,603	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT
514	00067	38,603	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN
514	00504	65	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL
514	10000	37	EACH	FINAL INSPECTION REPAIR
516	10010	298	FT	ARMORLESS PREFORMED JOINT SEAL
516	10011	298	FT	ARMORLESS PREFORMED JOINT SEAL, AS PER PLAN
516	13600	42	SF	1" PREFORMED EXPANSION JOINT FILLER
516	13900	1,550	SF	2" PREFORMED EXPANSION JOINT FILLER
516	25000	980	SF	NYLON REINFORCED NEOPRENE SHEETING
516	44201	32	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (3.128"x9.5"x18")
516	44201	48	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (3.128"x14"x18")
516	47001	LS	LS	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN
518	21200	164	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC
518	40000	307	FT	6" PERFORATED CORRUGATED PLASTIC PIPE
518	40010	73	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS
519	11101	250	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN
526	25001	786	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN
526	90030	298	FT	TYPE C INSTALLATION
601	20000	6	SY	CRUSHED AGGREGATE SLOPE PROTECTION
601	21001	150	SY	CONCRETE SLOPE PROTECTION, AS PER PLAN
SPECIAL	60610920	3,262	SF	NOISE BARRIER, BRIDGE MOUNTED
SPECIAL	60610920	1,250	SF	NOISE BARRIER, GROUND MOUNTED

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 202E22901
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410

ITEM NAME APPROACH SLAB REMOVED, AS PER PLAN PAY UNIT SY

Rear Approach Slab:		
Approach Slab Width = 23.50 ft		
Approach Slab Length = 146.48 ft		
Total = 3442.26 sq ft = 382.47 sq yd	383	
Forward Approach Slab:		
Approach Slab Width = 23.50 ft		
Approach Slab Length = 146.48 ft		
Total = 3442.26 sq ft = 382.47 sq yd	383	
Sheet Total =		766
Item Total =	766	

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 503E11100
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410
 ITEM NAME COFFERDAMS AND EXCAVATION BRACING PAY UNIT LS

Description:		
Lump		
Sheet Total =		0
Item Total =	0	

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 503E21101
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410
 ITEM NAME UNCLASSIFIED EXCAVATION, AS PER PLAN PAY UNIT CY

Behind Semi Integral Diaphragm:			
Rear Right and Fwd. Left	Area = 73.60 sf		
	Height = 4.08 ft		
	Locations = 2.00 ea		
	Total = 601.07 cu ft = 22.26 cu yd	23	
Rear Left and Fwd. Right	Area = 73.60 sf		
	Height = 4.08 ft		
	Locations = 2.00 ea		
	Total = 601.07 cu ft = 22.26 cu yd	23	
Wingwalls does not include area for wall			
Rear Right and Fwd. Left			
Front:	Area = 62.13 sf		
	Depth = 1.00 ft		
	Locations = 2.00 ea		
	Total = 124.26 cu ft = 4.60 cu yd	5	
Behind:	Area = 70.56 sf		
	Depth = 1.00 ft		
	Locations = 2.00 ea		
	Total = 141.12 cu ft = 5.23 cu yd	6	
Rear Left and Fwd. Right			
Front:	Area = 63.81 sf		
	Depth = 1.00 ft		
	Locations = 2.00 ea		
	Total = 127.62 cu ft = 4.73 cu yd	5	
Behind:	Area = 71.12 sf		
	Depth = 1.00 ft		
	Locations = 2.00 ea		
	Total = 142.24 cu ft = 5.27 cu yd	6	
	Sheet Total =	68	
	Item Total =	68	

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 510E10000
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410
 ITEM NAME DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT PAY UNIT EACH

<u>Abutment Wingwalls</u>				
Rear Right and Fwd. Left				
12 sets of 3	Amount =	36.00 ea		
12 sets of 2	Amount =	24.00 ea		
	No. Wingwalls =	2.00 ea		
	Total =	120.00 ea	120	
Rear Left and Fwd. Right				
12 sets of 3	Amount =	36.00 ea		
13 sets of 2	Amount =	26.00 ea		
	No. Wingwalls =	2.00 ea		
	Total =	124.00 ea	124	
<u>Abutment Diaphragm Guide</u>				
5 DG601 x 2 sides	Amount =	10.00 ea		
7 DG801 x 2 sides	Amount =	14.00 ea		
	No. Guides =	4.00 ea		
	Total =	96.00 ea	96	
<u>Superstructure - Median Barrier</u>				
267 - R514 BARS	Amount =	267.00 ea		
267 - R515 BARS	Amount =	267.00 ea		
	Sides =	2.00 ea		
	Total =	1068.00 ea	1,068	
<u>Approach Slab - Median Barrier</u>				
24 - R508 BARS	Amount =	24.00 ea		
24 - R509 BARS	Amount =	24.00 ea		
	Sides =	2.00 ea		
	Approach Slabs =	2.00 ea		
	Total =	192.00 ea	192	
	Sheet Total =			1,600
	Item Total =		1,600	

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 511E50211
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410
 ITEM NAME CLASS QC1 CONCRETE, SUBSTRUCTURE, AS PER PLAN PAY UNIT CY

Abutment Wingwalls				
Rear Right and Fwd. Left				
Area above ex footing =	25.09	sf		
Width =	0.83	ft		
No. of Walls =	2.00	ft		
Total =	41.82	cu ft = 1.55	cu yd	2
Area above ex beam seat = 60.33 sf				
Width =	1.50	ft		
No. of Walls =	2.00	ft		
Total =	180.99	cu ft = 6.70	cu yd	7
Rear Left and Fwd. Right				
Area above ex footing =	28.32	sf		
Width =	0.83	ft		
No. of Walls =	2.00	ft		
Total =	47.20	cu ft = 1.75	cu yd	2
Area above ex beam seat = 62.17 sf				
Width =	1.50	ft		
No. of Walls =	2.00	ft		
Total =	186.51	cu ft = 6.91	cu yd	7
Pier Caps				
Height (avg) =	1.01	ft		
Width =	3.00	ft		
Length =	148.5	ft		
No. of Piers =	3.00	ft		
Total =	1349.87	cu ft = 50.00	cu yd	50
Sheet Total =			68	
Item Total =			68	

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 512E10101
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410
 ITEM NAME SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN PAY UNIT SY

Outside Wingwalls and Appr Slab						
Rear Right and Fwd. Left	Area =	50.69	sf			
	No. of Sides =	2.00	ea			
	Total =	101.38	sf	11.26	sq yd	12
Rear Left and Fwd. Right	Area =	54.83	sf			
	No. of Sides =	2.00	ea			
	Total =	109.66	sf	12.18	sq yd	13
Piers						
Cap Top	Length =	150.00	ft			
	Width =	3.00	ft			
	No. of Piers =	3.00	ea			
	Total =	1350.00	sf	=	150.00	sy
Cap Sides and Ends	Area per Side =	384.26	sf			
	No. of Sides =	4.00	ea			
	No. of Piers =	3.00	ea			
	Total =	4611.12	sf	=	512.35	sy
Cap Bott	Length =	150.00	ft			
	Width =	3.00	ft			
	No. of Piers =	3.00	ea			
	Total =	1350.00	sf			
Minus Area of Column	=	7.07	sf			
	No. of Columns =	36.00	ea			
	Total =	1095.48	sf	=	121.72	sy
Columns	Height (avg) =	10.50	ft			
	Distance Around =	9.42	ft			
	No. of Columns =	12.00	ea			
	No. of Piers =	3.00	ea			
	Total =	3560.76	sf	=	395.64	sy
Sheet Total =						1,206
Item Total =						1,206

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 512E10101
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410

ITEM NAME SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN PAY UNIT SY

Abutment Diaphragms				
Rear Right and Fwd. Left	assume top/conc slope prot = el 607.50			
	Area at Face =	488.36 sf		
	No. of Abutments =	2.00 ea		
	Total =	976.72 sf = 108.52 sy	109	
Rear Left and Fwd. Right	assume top/conc slope prot = el 608.00			
	Area at Face =	452.58 sf		
	No. of Abutments =	2.00 ea		
	Total =	905.16 sf = 100.57 sy	101	
Transverse Section				
Outside Railings	Length =	247.79 ft		
	Width =	10.56 ft		
	No. of Railings =	2.00 ft		
	Total =	5233.32 sf = 581.48 sy	582	
Median Railing	Length =	247.79 ft		
	Width =	11.47 ft		
	Total =	2842.15 sf = 315.79 sy	316	
Approach Slabs				
Outside Railings **	Length =	15.00 ft		
	Width =	7.99 ft		
	No. of Railings =	4.00 ft		
	Total =	479.40 sf = 53.27 sy	54	
Median Railing	Length =	25.00 ft		
	Width =	11.47 ft		
	No. of Railings =	2.00 ft		
	Total =	573.50 sf = 63.72 sy	64	
** used normal perimeter in transitions - taper is negligible				
Sheet Total =			1,226	
Item Total =			2,432	

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 513E20000
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410

ITEM NAME WELDED STUD SHEAR CONNECTORS PAY UNIT EACH

Beams:		
No. of Beams =	16.00 ea	
No. of Rows =	2.00 ea	
Studs per Row =	401.00 ea	
Total =	12832.00 ea	12,832
Sheet Total =		12,832
Item Total =		12,832

QUANTITY
CALCULATIONS

CALC. BY:	CAF	DATE:	4/20/18	ITEM NUMBER:	513E95040
CHK'D BY:	FJG	DATE:	4/20/18		



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410
 ITEM NAME STRUCTURAL STEEL, MISC.: INTERMEDIATE CROSSFRAMES PAY UNIT EACH

Near Pier No. 1 (removed and replaced)		
Left Structure = 12.00 ea		
Right Structure = 13.00 ea		
Total = 25.00 ea	25	
Near Pier No. 2 (removed and replaced)		
Left Structure = 16.00 ea		
Right Structure = 16.00 ea		
Total = 32.00 ea	32	
Near Pier No. 3 (removed and replaced)		
Left Structure = 14.00 ea		
Right Structure = 14.00 ea		
Total = 28.00 ea	28	
Sheet Total =	85	
Item Total =	85	

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 513E95030
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410

ITEM NAME STRUCTURAL STEEL, MISC.: FATIGUE RETROFIT PAY UNIT EACH

<u>Piers</u>				
No. of Piers =	3.00	ea		
No. of Beams =	16.00	ea		
Retrofits per Location =	5.00	ea		
Total =	240.00	ea	240	
Sheet Total =				240
Item Total =			240	

QUANTITY
CALCULATIONS

CALC. BY:	CAF	DATE:	4/20/18	ITEM NUMBER:	513E95050
CHK'D BY:	FJG	DATE:	4/20/18		



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410

ITEM NAME STRUCTURAL STEEL, MISC.: TEMPORARY CROSSFRAMES FOR PAY UNIT EACH
MAINTENANCE OF TRAFFIC

<u>Between Beams H and J</u>		
Total = 19.00 ea	19	
Sheet Total =		19
Item Total =	19	

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 514E00056
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410
 ITEM NAME FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT PAY UNIT SF

Existing Beams (W36X150)		
Perimeter (2 x Web) + (3 x Flange) =	8.98 ft	
Length (span 1 or span 4) =	44.17 ft	
Number of Beams =	32.00 ea	
Total =	12697.50 sq ft	12,698
Existing Beams (W36X230)		
Perimeter (2 x Web) + (3 x Flange) =	9.21 ft	
Length (span 2 or span 3) =	76.00 ft	
Number of Beams =	32.00 ea	
Total =	22394.59 sq ft	22,395
Crosframes including Incedentals		
Beam Total =	35092.08 sq ft	
Percent of Beam Total =	0.10 %	
Total =	3509.21 sq ft	3,510
Sheet Total =		38,603
Item Total =		38,603

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 514E00060
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410
 ITEM NAME FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT PAY UNIT SF

Existing Beams (W36X150)		
Perimeter (2 x Web) + (3 x Flange) =	8.98 ft	
Length (span 1 or span 4) =	44.17 ft	
Number of Beams =	32.00 ea	
Total =	12697.50 sq ft	12,698
Existing Beams (W36X230)		
Perimeter (2 x Web) + (3 x Flange) =	9.21 ft	
Length (span 2 or span 3) =	76.00 ft	
Number of Beams =	32.00 ea	
Total =	22394.59 sq ft	22,395
Crosframes including Incedentals		
Beam Total =	35092.08 sq ft	
Percent of Beam Total =	0.10 %	
Total =	3509.21 sq ft	3,510
Sheet Total =		38,603
Item Total =		38,603

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 514E10000
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410
 ITEM NAME FINAL INSPECTION REPAIR PAY UNIT EACH

Beams			
remove a minimum of one location per 150 linear feet of beam line			
Single Beam Length =	244.50 ft		
Minus Abut Diaphragms =	4.17 ft		
Actual Length =	240.33 ft		
Total Beams =	16 ea		
Total Feet =	3845.33 ft		
Divide by =	150.00 per location		
Total =	25.64 ea	26	
5 percent of all existing cross frame assemblies			
Left Struct Total Assemblies =	101.00 ea		
Multiply by =	0.05 %		
Total =	5.05 ea	6	
Right Struct Total Assemblies =	99.00 ea		
Multiply by =	0.05 %		
Total =	4.95 ea	5	
Sheet Total =		37	
Item Total =		37	

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 516E13600
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410
ITEM NAME 1" PREFORMED EXPANSION JOINT FILLER PAY UNIT SF

Joint btwn Bridge Railing and Appr Slab Railing				
Median Railing				
	Area (from cad) =	6.16 sf		
	No. of Railings =	2.00 ea		
	No. of Locations =	2.00 ea		
	Total =	24.64 sf	25	
Outside Railing				
	Area (from cad) =	4.08 sf		
	Number of Railings =	4.00 ea		
	Total =	16.32 sf	17	
Sheet Total =			42	
Item Total =			42	

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 516E13900
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410

ITEM NAME 2" PREFORMED EXPANSION JOINT FILLER PAY UNIT SF

_btwn Abut Diaphragm and Diaphragm Guide				
	Top	Width = 3.00 ft		
		Length = 4.00 ft		
		Locations = 4.00 ea		
		Total = 48.00 sf	48	
	Sides	Width = 4.26 ft		
		Height = 2.00 ft		
		Locations = 8.00 ea		
		Total = 68.16 sf	69	
_btwn Median Barriers on Bridge Deck				
		Height = 4.50 ft		
		Length = 247.79 ft		
		Total = 1115.06 sf	1,116	
_btwn Median Barriers on Appr Slabs				
		Height = 4.50 ft		
		Length = 25.00 ft		
		Appr Slabs = 2.00 ea		
		Total = 225.00 sf	225	
_btwn Abut Diaphragm and Wingwalls and at Median				
		Height (avg) = 3.58 ft		
		Length = 4.25 ft		
		Locations = 6.00 ea		
		Total = 91.37 sf	92	
		Sheet Total =		1,550
		Item Total =	1,550	

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 516E44201
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410

ITEM NAME ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE PAY UNIT EACH
(NEOPRENE), AS PER PLAN (3.128"x14"x18")

<u>Piers</u>		
No. of Piers =	3.00 each	
No. of Beams =	16.00 each	
Total =	48.00 each	48
	Sheet Total =	48
	Item Total =	48

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 518E21200
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410

ITEM NAME POROUS BACKFILL WITH GEOTEXTILE FABRIC PAY UNIT CY

Abutments					
Rear Right and Fwd. Left					
incl part of wingwall	Length =	77.37	ft		
	Height (avg) =	6.92	ft		
	Width =	2.00	ft		
	No. of Abuts =	2.00	ea		
	Total =	2141.60	cu ft = 79.32 cu yd	80	
Behind New Wingwall above Exist Wingwall Removal Line					
	Length =	5.25	ft		
	Height =	4.08	ft		
	Width =	0.83	ft		
	No. of Abuts =	2.00	ea		
	Total =	35.70	cu ft = 1.32 cu yd	2	
Rear Left and Fwd. Right					
incl part of wingwall	Length =	76.36	ft		
	Height (avg) =	7.04	ft		
	Width =	2.00	ft		
	No. of Abuts =	2.00	ea		
	Total =	2150.30	cu ft = 79.64 cu yd	80	
Behind New Wingwall above Exist Wingwall Removal Line					
	Length =	5.10	ft		
	Height =	4.08	ft		
	Width =	0.83	ft		
	No. of Abuts =	2.00	ea		
	Total =	34.68	cu ft = 1.28 cu yd	2	
Sheet Total =				164	
Item Total =				164	

QUANTITY
CALCULATIONS

CALC. BY:	CAF	DATE:	4/20/18	ITEM NUMBER:	518E40000
CHK'D BY:	FJG	DATE:	4/20/18		



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410
 ITEM NAME 6" PERFORATED CORRUGATED PLASTIC PIPE PAY UNIT FT

<u>Abutments</u>			
Rear Right and Fwd. Left			
Length Rear =	77.37	ft	
Length Fwd =	77.37	ft	
Total =	154.74	ft	155
Rear Left and Fwd. Right			
Length Rear =	75.71	ft	
Length Fwd =	75.71	ft	
Total =	151.42	ft	152
			307
Sheet Total =			307
Item Total =	307		307

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 518E40010
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410

ITEM NAME 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS PAY UNIT FT

<u>Abutments</u>		
Rear Right Corner Drain		
Length = 17.00 ft		
Total = 17.00 ft	17	
Rear Left Corner Drain		
Length = 18.50 ft		
Total = 18.50 ft	19	
Fwd Right Corner Drain		
Length = 20.20 ft		
Total = 20.20 ft	21	
Fwd Left Corner Drain		
Length = 15.30 ft		
Total = 15.30 ft	16	
<p>*** see calc plan sheets here → perf pipe</p> <p>Add four feet to get under wingwall</p>		
Sheet Total =		73
Item Total =	73	

QUANTITY
CALCULATIONS

CALC. BY: CAF	DATE: 4/20/18	ITEM NUMBER: 606E10920
CHK'D BY: FJG	DATE: 4/20/18	



PID NO. 88348 JOB NO. TOHODT11.FE08 STRUCTURE CUY-90-2410

ITEM NAME SPECIAL - NOISE BARRIER, BRIDGE MOUNTED PAY UNIT SF

Noise Barrier - Left Structure				
6 Panels @ 7'-0" =	42.00	ft		
Height =	4.50	ft		
Total =	189.00	sq ft	189	
5 Panels @ 7'-0" =	35.00	ft		
Height =	5.25	ft		
Total =	183.75	sq ft	184	
3 Panels @ 7'-0" =	21.00	ft		
Height =	6.00	ft		
Total =	126.00	sq ft	126	
2 Panels @ 8'-0" =	16.00	ft		
Height =	6.00	ft		
Total =	96.00	sq ft	96	
4 Panels @ 8'-0" =	32.00	ft		
Height =	6.75	ft		
Total =	216.00	sq ft	216	
2 Panels @ 8'-0" =	16.00	ft		
Height =	7.50	ft		
Total =	120.00	sq ft	120	
3 Panels @ 7'-0" =	21.00	ft		
Height =	7.50	ft		
Total =	157.50	sq ft	158	
5 Panels @ 7'-0" =	35.00	ft		
Height =	8.00	ft		
Total =	280.00	sq ft	280	
7 Panels @ 7'-0" =	49.00	ft		
Height =	8.50	ft		
Total =	416.50	sq ft	417	
Sheet Total =				1,786
Item Total =			1,786	

