



ITEM 514 - FIELD PAINTING OF STRUCTURAL STEEL, INTERMEDIATE COAT

Descriptions	No. Beams / X-Frames	Beam Size/ X-frames	Length (ft)	Beam/ ft ² or X-Frames/ft ²	SQ. FT.
Beams	4	W27 x 146	214.5	7.88	6761
Bottom Flange Splice Plates, Bottom, Edges	8	0.05208333	7.9398		3.3
Bottom Flange Splice Plates, Top, Edges	16	0.0625	3.9195		3.9
Top Flange Splice Plates, Bottom, Edges	16	0.0625	3.9195		3.9
Web Splice Plates, Edges	16	0.05208333	6.7631		5.6
Intermediate Diaphragms	45	C15 x 33.9	8.4167	3.57	1258.4
Connection Plates	90			3.79	340.8
Deduct Area in Contact with Diaphragms	-90			1.04	-93.8
End X-Frames (Bottom)	6	L4 x 4 x 3/8	8.62	1.33	68.8
Deduct Area in Contact with Plate	-6	1.333333	0.25		-2.0
End X-Frames (Diagonals)	12	L4 x 4 x 3/8	2.9167	1.33	46.6
Deduct Area in Contact with Plate	-12	0.5833	0.3333		-2.3
End X-Frames (Diagonals)	12	L4 x 4 x 3/8	1.5833	1.33	25.3
Deduct Area in Contact with Plates	-12	1	0.3333		-4.0
End X-Frames Plates (Bottom)	6	1'-4"x1'-1"x1/2"		1.65	9.9
Deduct Area in Contact with Bottom X-Frames	-6	1.333333	0.25		-2.0
End X-Frames Plates (Top)	12	1'-6"x7"x1/2"		1.86	22.3
Deduct Area in Contact with Diagonal X-Frames	-12	1	0.3333		-4
Abutment Bearing Stiffeners	32	0.54167	2.12083		36.8
Pier 1/3 Bearing Stiffeners	32	0.54167	2.12083		36.8
Pier 2 Bearing Stiffeners	16	0.54167	2.12083		18.4
Abutment Brg Pad Top Plates	8			1.26	10
Abutment Brg Pad Bottom Plates	8			2.76	22.1
Expansion Pier Bearings HP Section	8	HP 12x53	1.04166667	5.77	48.1
Expansion Pier Bearings Top Plate	8			3.67	29.4
Expansion Pier Bearings Bottom Plate	8			3.06	24.5
Fixed Pier Bearings HP Section	4	HP 12x53	1.30166667	5.77	30
Fixed Pier Bearings Top Plate	4			3.48	13.9
Fixed Pier Bearings Bottom Plate	4			7.44	29.8
TOTAL =					8742.0

ITEM 514 - FIELD PAINTING OF STRUCTURAL STEEL, FINISH COAT					
Descriptions	No. Beams / X-Frames	Beam Size/ X-frames	Length (ft)	Beam/ ft² or X-Frames/ft²	SQ. FT.
Beams	4	W27 x 146	214.5	7.88	6761
Bottom Flange Splice Plates, Bottom, Edges	8	0.05208333	7.9398		3.3
Bottom Flange Splice Plates, Top, Edges	16	0.0625	3.9195		3.9
Top Flange Splice Plates, Bottom, Edges	16	0.0625	3.9195		3.9
Web Splice Plates, Edges	16	0.05208333	6.7631		5.6
Intermediate Diaphragms	45	C15 x 33.9	8.4167	3.57	1258.4
Connection Plates	90			3.79	340.8
Deduct Area in Contact with Diaphragms	-90			1.04	-93.8
End X-Frames (Bottom)	6	L4 x 4 x 3/8	8.62	1.33	68.8
Deduct Area in Contact with Plate	-6	1.333333	0.25		-2.0
End X-Frames (Diagonals)	12	L4 x 4 x 3/8	2.9167	1.33	46.6
Deduct Area in Contact with Plate	-12	0.5833	0.3333		-2.3
End X-Frames (Diagonals)	12	L4 x 4 x 3/8	1.5833	1.33	25.3
Deduct Area in Contact with Plates	-12	1	0.3333		-4.0
End X-Frames Plates (Bottom)	6	1'-4"x1'-1"x1/2"		1.65	9.9
Deduct Area in Contact with Bottom X-Frames	-6	1.333333	0.25	0.00	-2.0
End X-Frames Plates (Top)	12	1'-6"x7"x1/2"		1.86	22.3
Deduct Area in Contact with Diagonal X-Frames	-12	1	0.3333		-4.0
Abutment Bearing Stiffeners	32	0.54167	2.12083		36.8
Pier 1/3 Bearing Stiffeners	32	0.54167	2.12083		36.8
Pier 2 Bearing Stiffeners	16	0.54167	2.12083		18.4
Abutment Brg Pad Top Plates	8			1.26	10
Abutment Brg Pad Bottom Plates	8			2.76	22.1
Expansion Pier Bearings HP Section	8	HP 12x53	1.04166667	5.77	48.1
Expansion Pier Bearings Top Plate	8			3.67	29.4
Expansion Pier Bearings Bottom Plate	8			3.06	24.5
Fixed Pier Bearings HP Section	4	HP 12x53	1.30166667	5.77	30
Fixed Pier Bearings Top Plate	4			3.48	13.9
Fixed Pier Bearings Bottom Plate	4			7.44	29.8
TOTAL =					8742.0

ITEM 514 - FINAL INSPECTION REPAIR					
Descriptions	No. Beams / X-Frames	Beam Size/ X-frames	Length (ft)	Total Linear (ft.)	EACH
Beams	4	W27 x 146	214.5	858.00	2.9
Intermediate Diaphragms	45				1.0
End CrossFrames	6				0.0
TOTAL =					4