

BRIDGE NO: CUY-480-0612
 SFN: 1814168
 BRIDGE DESCRIPTION: W. 220th St. over IR 480



CALCULATED BY: STK
 CHECKED BY: ERK

DATE: 08/18/20
 DATE: 08/18/20

ESTIMATED QUANTITIES

ITEM	ITEM EXT.	DESCRIPTION
ITEM 202	75261	VANDAL PROTECTION FENCE REMOVED, AS PER PLAN
Length of fence removed on bridge deck = 511.67 ft Length of fence remove on wingwalls = 66.83 ft Total Quantity = 579 ft		
ITEM 512	10101	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN
Abutment sealing quantity over backwall patching = 135.00 ft ² Pier sealing quantity = 57.00 ft ² Length of parapets on wingwalls to seal = 66.35 ft Perimeter of parapet to seal = 5.50 ft Area of parapet sealing on wingwalls = 364.93 ft ² Sidewalk curb sealing quantity for patching = 251.00 ft ² Perimeter of parapet to seal = 5.50 ft Length of left parapet to seal = 255.42 ft Length of right parapet to seal = 259.65 ft Area of parapet on bridge to seal = 3083.89 ft ² Total Abutment Quantity = 15 SY Total Pier Quantity = 7 SY Total Superstructure Quantity = 384 SY Total Quantity = 406 SY		
ITEM 512	74001	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, AS PER PLAN
Area of parapet sealing on wingwalls to remove = 364.93 ft ² Area of parapet sealing on bridge deck to remove = 2832.89 ft ² Area of parapet to subtract for patching = 300.00 ft ² Total Quantity = 322 SY		
ITEM 516	12310	SIDEWALK COVER PLATE
Thickness of cover plate = 0.03 ft Cover plate width = 0.54 ft Length of cover plate = 8.10 ft Weight of steel plate = 490 lb/ft ³ Total Quantity = 68 LB		
ITEM 516	46701	RESET BEARING, AS PER PLAN
Number of abutment bearings to reset = 1 each Total Quantity = 1 each		

ITEM 516	47001	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN
<p style="text-align: center;">Number of locations = 1 each Total Quantity = LUMP</p>		
ITEM 519	11101	PATCHING CONCRETE STRUCTURE, AS PER PLAN
<p style="text-align: center;">Rear Abutment patching total = 65.50 ft² Forward Abutment patching total = 24.00 ft² Pier patching total = 38.00 ft² Area of parapet patching = 300.00 ft² Area of sidewalk curb patching = 167.00 ft² Total Abutment Quantity = 90 SF Total Pier Quantity = 38 SF Total Superstructure Quantity = 467 SF Total Quantity = 595 SF</p>		
ITEM 519	12300	PATCHING CONCRETE BRIDGE DECKS, TYPE B
<p style="text-align: center;">Patching total on bridge deck = 762.00 ft² Patching total along top of backwall = 115.00 ft² Total Quantity = 98 SY</p>		
SPECIAL	53000600	STRUCTURE, MISC.: PERMANENT TRAFFIC PROTECTION, AS PER PLAN
<p style="text-align: center;">Length of span 2 = 77.00 ft Length of span 3 = 77.00 ft Beam Spacing = 8.29 ft Number of bays = 7 each Total Quantity = 8937 SF</p>		
ITEM 607	39901	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN
<p style="text-align: center;">Length of fence on bridge deck = 511.67 ft Length of fence on wingwalls = 66.83 ft Total Quantity = 579 FT</p>		

BRIDGE NO: CUY-480-0616
 SFN: 1814176
 BRIDGE DESCRIPTION: Mastick Rd. over IR 480



CALCULATED BY: STK
 CHECKED BY: ERK

DATE: 08/18/20
 DATE: 08/18/20

ESTIMATED QUANTITIES

ITEM	ITEM EXT.	DESCRIPTION
ITEM 201	23000	TREE REMOVED, 30"
Number of trees to remove = 1 each Total Quantity = 1 each		
ITEM 202	75261	VANDAL PROTECTION FENCE REMOVED, AS PER PLAN
Length of fence removed on bridge deck = 792.33 ft Length of fence remove on wingwalls = 100.50 ft Total Quantity = 893 ft		
ITEM 512	10101	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN
Abutment sealing quantity over backwall patching = 638.00 ft ² Length of parapets on wingwalls to seal = 106.29 ft Perimeter of parapet to seal = 5.50 ft Area of parapet sealing on wingwalls = 584.60 ft ² Sidewalk curb sealing quantity for patching = 72.00 ft ² Perimeter of parapet to seal = 5.50 ft Length of left parapet to seal = 393.72 ft Length of right parapet to seal = 393.75 ft Area of parapet on bridge to seal = 4403.09 ft ² Total Abutment Quantity = 71 SY Total Superstructure Quantity = 555 SY Total Quantity = 626 SY		
ITEM 512	71500	URETHANE TOP COAT SEALER
Number of pier columns to get fiber wrap = 4 each Pier column diameter = 3.00 ft Average height of pier columns = 16.37 ft Quantity of urethane sealer = 617.13 ft ² Total Quantity = 69 SY		
ITEM 512	74001	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, AS PER PLAN
Area of parapet sealing on wingwalls to remove = 584.60 ft ² Area of parapet sealing on bridge deck to remove = 4331.09 ft ² Area to subtract for concrete patching = 572.00 ft ² Total Quantity = 483 SY		
SPECIAL	51900100	COMPOSITE FIBER WRAP SYSTEM
Number of pier columns to get fiber wrap = 4 each Pier column diameter = 3.00 ft Amount to lap fiber wrap = 1.00 ft Average height of pier columns = 16.37 ft Additional total height for 2" overlaps = 1.50 ft Total Quantity = 746 SF		

ITEM 519	11101	PATCHING CONCRETE STRUCTURE, AS PER PLAN
<p>Rear Abutment patching total = 51.30 ft² Forward Abutment patching total = 373.70 ft²</p> <p>Area of parapet patching = 572.00 ft² Area of sidewalk curb patching = 48.00 ft²</p> <p>Total Abutment Quantity = 425 SF Total Superstructure Quantity = 620 SF Total Quantity = 1045 SF</p>		
ITEM 519	12300	PATCHING CONCRETE BRIDGE DECKS, TYPE B
<p>Patching total on bridge deck = 78.00 ft² Patching total along top of backwall = 130.00 ft²</p> <p>Total Quantity = 24 SY</p>		
ITEM 607	39901	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN
<p>Length of fence on bridge deck = 792.33 ft Length of fence on wingwalls = 100.50 ft</p> <p>Total Quantity = 893 FT</p>		
ITEM 844	10001	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN
<p>Amount of patching on pier columns = 84.00 ft²</p> <p>Total Quantity = 84 SF</p>		

BRIDGE NO: CUY-480-1075
 SFN: 1812912
 BRIDGE DESCRIPTION: IR 480 over CSX Railroad



CALCULATED BY: STK
 CHECKED BY: ERK

DATE: 08/18/20
 DATE: 08/18/20

ESTIMATED QUANTITIES

ITEM	ITEM EXT.	DESCRIPTION
ITEM 202	11203	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN
<p>Area of bridge deck to remove (EB) = 883.55 ft² Area of bridge deck to remove (WB) = 1000.87 ft² Unit price to remove bridge deck = \$20/ft²</p> <p>Length of abutment backwall to remove = <u>R.A.</u> 410.50 ft <u>F.A.</u> 316.00 ft Backwall width to remove = 1.25 ft 1.25 ft Backwall height to remove = 1.46 ft 1.46 ft Volume of abutment backwall to remove = 28 CY 22 CY Unit price to remove substructure concrete = \$225/CY</p> <p>Weight of end crossframe steel to remove = 58000 LB Unit price for structural steel removal = \$250/ton</p> <p>Removal Cost = \$57,000</p> <p>Total Quantity = LUMP</p>		
ITEM 202	22900	APPROACH SLAB REMOVED
<p>Rear approach slab removal area = <u>Eastbound</u> 2061.06 ft² <u>Westbound</u> 2398.46 ft² Forward approach slab removal area = 1931.98 ft² 1917.25 ft²</p> <p>Total Quantity = 924 SY</p>		
ITEM 202	23500	WEARING COURSE REMOVED
<p>Rear approach slab removal area = <u>Eastbound</u> 2061.06 ft² <u>Westbound</u> 2398.46 ft² Forward approach slab removal area = 1931.98 ft² 1917.25 ft²</p> <p>Total Quantity = 924 SY</p>		
ITEM 509	10000	EPOXY COATED REINFORCING STEEL
<p>Quantity for abutments = 2959 LB Quantity for superstructure = 1091 LB</p> <p>Total Quantity = 4050 LB</p>		
ITEM 509	20001	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN
<p>Number of existing #6 vertical abutment bars to be salvaged = 737 each Number of existing #8 vertical abutment bars to be salvaged = 470 each Nominal weight of no. 4 bar = 0.668 lb/ft Nominal weight of no. 5 bar = 1.043 lb/ft Nominal weight of no. 6 bar = 1.502 lb/ft Nominal weight of no. 8 bar = 2.670 lb/ft Length of #6 abutment vertical bar to replace = 3.33 ft Length of #8 abutment vertical bar to replace = 2.00 ft Dowel length for no. 6 bar = 0.75 ft Dowel length for no. 8 bar = 1.00 ft Estimated number of existing bars to replace = 25%</p>		

Number of existing #4 longitudinal deck bars to salvage = 418 each
 Number of existing #5 longitudinal deck bars to salvage = 394 each
 Number of existing #6 transverse deck bars to salvage = 1870 each
 Length of existing longitudinal bar to salvage = 4.95 ft
 Length of existing transverse bar to salvage = 2.83 ft
 Dowel length for no. 4 bar = 0.50 ft
 Dowel length for no. 5 bar = 0.67 ft
 Dowel length for no. 6 bar = 0.75 ft
 Estimated number of existing bars to replace = 25%

Abutment Quantity = 2071 LB
 Superstructure Quantity = 3474 LB
 Total Quantity = 5545 LB

ITEM 511	21520	CLASS QC2 CONCRETE, SUPERSTRUCTURE
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Concrete deck thickness = 0.83 ft
 Area of deck (R.A. eastbound) = 468.26 ft²
 Area of deck (R.A. westbound) = 587.42 ft²
 Area of deck (F.A. eastbound) = 414.66 ft²
 Area of deck (F.A. westbound) = 409.72 ft²
 Volume of deck concrete = 1566.72 ft³

Average outside overhang deck width = 2.00 ft
 Additional overhang deck thickness = 0.08 ft
 Length of bridge = 4.00 ft
 Number of sides = 2 each
 Beam haunch area = 0.20 ft²
 Number of beams = 23 each
 Volume of additional deck overhang and haunch concrete = 19.73 ft³

Cross section area of outside parapet = 3.74 ft²
 Total length of new outside parapet = 20.49 ft
 Cross section area of EB median parapet = 3.41 ft²
 Total length of new EB median parapet = 10.73 ft
 Cross section area of WB median parapet = 3.65 ft²
 Total length of new WB median parapet = 10.82 ft
 Volume of parapet concrete on bridge deck = 152.71 ft³

Total length of outside parapets on wingwalls = 14.44 ft
 Total length of EB median parapet = 12.75 ft
 Total length of WB median parapet = 12.77 ft
 Volume of parapet concrete on wingwalls = 144.09 ft³

Total Abutment Quantity = 6 CY
 Total Superstructure Quantity = 65 CY
 Total Quantity = 71 CY

ITEM 511	44110	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING
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	<u>R.A.</u>	<u>F.A.</u>
Length of backwall =	410.60 ft	318.90 ft
Width of backwall =	1.25 ft	1.25 ft
Height of backwall =	1.46 ft	1.46 ft
Volume of backwall =	748.32 ft ³	581.20 ft ³
Total Quantity = 50 CY		

ITEM 512	10100	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
<p style="text-align: center;"> <u>R.A.</u> <u>F.A.</u> Abutment sealing quantity over backwall and breastwall patching = 288.00 ft² 268.50 ft </p> <p style="text-align: center;"> Length of outside parapets on wingwalls to seal = 14.50 ft 7.30 ft Perimeter of outside parapet to seal = 6.80 ft Length of EB median parapet to seal = 8.30 ft 4.75 ft Perimeter of EB median parapet to seal = 5.07 ft Length of WB median parapet to seal = 5.17 ft 7.60 ft Perimeter of WB median parapet to seal = 5.07 ft Area of parapet sealing on wingwalls = 166.89 ft² 112.25 ft² </p> <p style="text-align: center;"> Total length of outside parapets to seal = 20.49 ft Perimeter of outside parapet to seal = 6.80 ft Length of WB median parapet to seal = 10.82 ft Perimeter of WB median parapet to seal = 5.07 ft Length of EB median parapet to seal = 10.73 ft Perimeter of EB median parapet to seal = 5.07 ft Parapet area to seal from patching = 12.00 ft² Area of parapet on bridge to seal = 260.59 ft² </p> <p style="text-align: center;"> Total Abutment Quantity = 62 SY Total Superstructure Quantity = 60 SY Total Quantity = 122 SY </p>		
ITEM 513	10201	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN
<p style="text-align: center;"> Number of Type 1 end crossframe locations = 33 each Number of Type 2 end crossframe locations = 5 each Total length of Type 1 end crossframe = 56.40 ft Total length of Type 2 end crossframe = 37.90 ft Unit weight of Type 1 end crossframe = 14.40 lb/ft Unit weight of Type 2 end crossframe = 8.16 lb/ft Weight of end crossframe angles = 28347.60 lb Add 25% for connection plates = 7086.90 lb </p> <p style="text-align: center;"> Total Quantity = 36000 SY </p>		
ITEM 514	00050	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL
<p style="text-align: center;"> Girder depth at abutment end = 5.15 ft Flange width at abutment end (girder 1) = 1.33 ft Flange width at all other girder ends = 1.00 ft Nominal measurement (girder 1) = 14.29 ft Nominal measurement (other girders) = 13.29 ft Length of beam end to paint = 10.00 ft Number of beam ends at R.A. = 23 each Number of beam ends at F.A. = 19 each Quantity of existing beams to paint = 5602.50 ft² </p> <p style="text-align: center;"> Total Quantity = 5603 SF </p>		
ITEM 514	00056	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT
<p style="text-align: center;"> Total Quantity = 5603 SF </p>		
ITEM 514	00060	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT
<p style="text-align: center;"> Quantity for painting beam ends = 5603 SF </p> <p style="text-align: center;"> Number of Type 1 end crossframe locations = 33 each Number of Type 2 end crossframe locations = 5 each Perimeter of Type 1 end crossframe to paint = 1.67 ft Perimeter of Type 2 end crossframe to paint = 1.33 ft Total length of Type 1 end crossframe to paint = 56.40 ft Total length of Type 2 end crossframe to paint = 37.90 ft Area of end crossframe angles to paint = 3354.67 ft² Add 10% for connection plates = 335.47 ft² Quantity for end crossframes to paint = 3690 SF </p> <p style="text-align: center;"> Total Quantity = 9294 SF </p>		

ITEM 514	00066	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT																																																			
Total Quantity = 9294 SF																																																					
ITEM 514	00504	GRINDING FINIS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL																																																			
Amount to provide per BDM 302.4.1.5 for each beam = 1 min/ft Total length of beams to paint = 420.00 ft Total Quantity = 7 man hour																																																					
ITEM 514	10000	FINAL INSPECTION REPAIR																																																			
Total length of beams = 420.00 ft Per CMS 514.21: inspect every: 150 ft Number of crossframe assemblies = 38 each Per CMS 514.21: inspect = 5% Total Quantity = 5 each																																																					
ITEM 516	11210	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL																																																			
<table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;"><u>R.A.</u></td> <td style="text-align: center;"><u>F.A.</u></td> </tr> <tr> <td>Length of joint (westbound) =</td> <td style="text-align: center;">226.25 ft</td> <td style="text-align: center;">158.10 ft</td> </tr> <tr> <td>Length of joint (eastbound) =</td> <td style="text-align: center;">180.80 ft</td> <td style="text-align: center;">159.20 ft</td> </tr> </table> Total Quantity = 725 FT				<u>R.A.</u>	<u>F.A.</u>	Length of joint (westbound) =	226.25 ft	158.10 ft	Length of joint (eastbound) =	180.80 ft	159.20 ft																																										
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ITEM 516	13600	1" PREFORMED EXPANSION JOINT FILLER																																																			
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ITEM 516	44000	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (10"X12"X1.648" WITH A 12"X14"X1" LOAD PLATE)																																																			
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ITEM 516	44100	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (12"X6"X2.222" WITH A 14"X8"X1" LOAD PLATE)																																																			
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ITEM 516	44100	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"X12"X2.398" WITH A 17"X14"X1" LOAD PLATE)									
<p style="text-align: center;">Abutment Quantity = 20 each Total Quantity = 20 each</p>											
ITEM 516	44100	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"X12"X2.398" WITH A 18"X14"X1" LOAD PLATE)									
<p style="text-align: center;">Abutment Quantity = 1 each Total Quantity = 1 each</p>											
ITEM 516	44400	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"X12"X5.694" WITH A 17"X14"X1" LOAD PLATE)									
<p style="text-align: center;">Abutment Quantity = 18 each Total Quantity = 18 each</p>											
ITEM 516	44400	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"X12"X5.694" WITH A 18"X17"X1" LOAD PLATE)									
<p style="text-align: center;">Abutment Quantity = 1 each Total Quantity = 1 each</p>											
ITEM 516	47001	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN									
<p style="text-align: center;">Number of jacking locations at R.A. = 23 each Number of jacking locations at F.A. = 19 each Price per jacking location = \$1,000/each Total cost = \$42,000 Total Quantity = LUMP</p>											
ITEM 519	11101	PATCHING CONCRETE STRUCTURE, AS PER PLAN									
<p style="text-align: center;">Rear Abutment patching total = 192.00 ft² Forward Abutment patching total = 179.00 ft² Area of parapet patching = 8.00 ft² Total Abutment Quantity = 371 SF Total Superstructure Quantity = 8 SF Total Quantity = 379 SF</p>											
ITEM 519	12300	PATCHING CONCRETE BRIDGE DECKS, TYPE B									
<p style="text-align: center;">Patching total on bridge deck = 55.00 ft² Total Quantity = 7 SY</p>											
ITEM 526	25000	REINFORCED CONCRETE APPROACH SLABS (T=15")									
<table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;"><u>Eastbound</u></td> <td style="text-align: center;"><u>Westbound</u></td> </tr> <tr> <td>Rear approach slab removal area =</td> <td style="text-align: center;">2061.06 ft²</td> <td style="text-align: center;">2398.46 ft²</td> </tr> <tr> <td>Forward approach slab removal area =</td> <td style="text-align: center;">1931.98 ft²</td> <td style="text-align: center;">1917.25 ft²</td> </tr> </table> <p style="text-align: center;">Total Quantity = 924 SY</p>				<u>Eastbound</u>	<u>Westbound</u>	Rear approach slab removal area =	2061.06 ft ²	2398.46 ft ²	Forward approach slab removal area =	1931.98 ft ²	1917.25 ft ²
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Rear approach slab removal area =	2061.06 ft ²	2398.46 ft ²									
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