| ESTIMATEDQUANITIES |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ITM | EXIENSTON | TOTAL | UNTT | DESCRIPIION | ABUTMENIS |  | PIERS |  | SUPER | GEN． | SHETNO． |
|  |  |  |  |  | WEST | EAST | WEST | EAST |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 202 | 11201 | 1 | LS | PORTIONSOF STRUCTURE REMOVED，ASPER PLAN |  |  |  |  |  | 1 | 2／18 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 509 | 10000 | 19792 | LB | EPOXY COATED RENFORCNG STEEL |  |  | 9896 | 9896 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 510 | 10000 | 72 | EACH | DOWEL HOLESWITH NONSHRINK，NONMETAШCGROUT |  |  | 36 | 36 |  |  | 2／18 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 511 | 71100 | 180 | C | CONCREIE，MISC：DECORATIVE PYLON CONCREIE |  |  | 90 | 90 |  |  | 2／18 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 512 | 10051 | 2316 | SY | SEALNG OF CONCRETE SURFACES（NON－EPOXY），ASPER PLAN | 411 | 411 | 363 | 363 | 598 | 170 | 2／18 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 514 | 00051 | 4313 | SF | SURFACE PREPARATION OF EXSTING STRUCTURALSTEEL，ASPER PLAN |  |  |  |  | 4313 |  | 3／18 |
| 514 | 00057 | 4313 | SF | FIED PAINTING OF EXSTING STRUCTURALSTEIL，PRIMECOAT，AS PER PLAN |  |  |  |  | 4313 |  | 3／18 |
| 514 | 00061 | 4313 | SF | FIED PAINTING STRUCTURAL STEEL，INTIERMEDIATECOAT，SYSTEM OZZU，AS PER PLAN |  |  |  |  | 4313 |  | 3／18 |
| 514 | 00067 | 4313 | SF | FIEDPAINTING STRUCTURALSTEEL，FINISH COAT，ASPERPLAN |  |  |  |  | 4313 |  | 3／18 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 516 | 10001 | 116 | FT | PREFORMEDELASTOMERICCOMPRESSION JOINT SEAL，ASPER PLAN | 58 | 58 |  |  |  |  | 3／18 |
| 516 | 31001 | 121 | FT | JOINTSEALER，ASPER PLAN | 43 | 42 | 18 | 18 |  |  | 3／18 |
| 516 | 44101 | 8 | EACH | ELASTOMERICBEARING WITH INIERNAL LAMINATESANDLOAD PLATE（NEOPRENE），ASPER PLAN | 4 | 4 |  |  |  |  | 14／18 |
| 516 | 47001 | 1 | LS | JACKNG AND TEM PORARY SUPPORT OF SUPERSTRUCTURE，ASPER PLAN |  |  |  |  |  | 1 | 3／18 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 519 | 11101 | 184 | SF | PATCHING CONCREIE STRUCTURE，ASPER PLAN | 30 | 85 | 11 | 58 |  |  | 3／18 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 845 | 60000 | 116 | SF | SURFACE PREPARATION OF EXSTING STRUCTURALSTEEL | 24 | 24 |  |  | 68 |  | 4／18 |
| 845 | 61000 | 8 | MNHR | GRINDING FINS，TEARS，SUVERS ON EXISTING STRUCTURALSTEE | 2 | 2 |  |  | 4 |  |  |
| 845 | 62000 | 116 | SF | FIELDMETAШZNG OF EXSTING STRUCTURALSTE⿴囗十⺀⿺𠃊⿳⺈⿴囗十一 | 24 | 24 |  |  | 68 |  | 4／18 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 848 | 10201 | 196 | S | SUPERPLASTIGZTD DENSE CONCRETE OVERLAY USING HYDRODEMOUTION，ASPER PLAN（13／4＂THICK） | 98 | 98 |  |  |  |  | 4／18 |
| 848 | 10201 | 1061 | SY | SUPERPLASTIZZ－D DENSE CONCREIE OVERLAYUSING HYDRODEMOUTION，ASPER PLAN（3＂THICK） |  |  |  |  | 1061 |  | 4／18 |
| 848 | 20000 | 1257 | SY | SURFACE PREPARATION USINGHYDRODEMOUTION | 98 | 98 |  |  | 1061 |  |  |
| 848 | 30200 | 22 | C | SUPERPLASTIUZ－D DENSE CONCRETE OVERLAY（VARIABLE THICKNESS），MATERJAL ONLY | 3 | 3 |  |  | 16 |  |  |
| 848 | 50000 | 38 | SY | HANDCHIPPING | 3 | 3 |  |  | 32 |  |  |
| 848 | 50100 | 1 | LS | TESTSLAB |  |  |  |  |  | 1 |  |
| 848 | 50320 | 1061 | SY | EXSTING CONCREIE OVERLAY REMOVED（2＂THICK） |  |  |  |  | 1061 |  |  |
| 848 | 50340 | 319 | SY | REMOVALOF DEBONDEDOR DEIERIORATEDEXISTING VARIABLETHICKNESS CONCREIEOVERLAY |  |  |  |  | 319 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |




## A=COM

Project HAM-042-0329
Description McMillan Street over Reading Road

| Computed By | KGR | Date | $1 / 9 / 18$ |
| :--- | ---: | ---: | ---: |
| Checked By | KSC | Date | $1 / 10 / 18$ |

ITEM 509E10000 - EPOXY COATED REINFORCING STEEL
UNIT: LB

Per Pier Pylon











| AECOM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Project HAM-042-0329 |  |  |  |  |  |  |  |  | Computed By KGR |  |  |  |  |  | 1/10/18 |  |
| Description McMillan Street over Reading Road |  |  |  |  |  |  |  |  | Checked By |  |  |  | Date |  | 1/10/18 |  |
| ITEM 514E00051 - SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL, AS PER UNIT: SFPLAN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ITEM 514E00057 - FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT, AS UNIT: SFPER PLAN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ITEM 514E00061 - FIELD PAINTING STRUCTURAL STEEL, INTERM EDIATE COAT, SYSTEM UNIT: SFOZEU, AS PER PLAN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ITEM 514E00067 - FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN |  |  |  |  |  |  |  |  |  |  |  |  |  |  | UNIT: SF |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Girders G2 \& G3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | B-B A | Angle D | tanc | ce at Sec. C-C | $=$ | 5 ft |  | 0.00 in | = | 60.00 |  |  |  |  |
|  |  |  | B-B An | Angle Di | tance | e at Sec. A-A | = | 10 ft |  | 0.00 in | $=$ | 120.0 |  |  |  |  |
|  |  |  | tance | Between | $n \mathrm{Sec}$ | cs. C-C \& A-A | $=$ | 44 ft |  | 11.00 in | = | 539.0 |  |  |  |  |
|  |  | Leng | gth of P | Paintin | from | m Girder End | = | 10 ft |  | 0.00 in | = | 120.0 |  |  |  |  |
|  |  | B-B A | Angle D | Distanc | at P | Painting Limit | = | 6 ft |  | 1.36 in | $=$ | 73.3 |  |  |  |  |
| Avg. B-B Angle Dist. thru Painting Limits |  |  |  |  |  |  | = | 5 ft |  | 6.68 in | $=$ | 66.6 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Top F | Flange | over | Plate Width | $=$ | 18.00 |  |  |  |  |  |  |  |  |
|  |  |  | ttom F | Flange | over | Plate Width | = | 18.00 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | eb Thickness | = | 0.438 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Left Fa | Pai | inting Height | $=$ | 66.68 |  |  |  |  |  |  |  |  |
|  |  |  |  | Right Fa | Pai | ainting Height | = | 66.68 |  |  |  |  |  |  |  |  |
|  |  | Bottom | m of Top | Top Flan | ge Pa | ainting Width | = | 17.56 |  |  |  |  |  |  |  |  |
|  |  | Top of | Botto | om Flan | ge Pa | ainting Width | = | 17.56 |  |  |  |  |  |  |  |  |
|  | Botto | om of | Botto | om Flan | ge Pa | ainting Width | = | 18.00 |  |  |  |  |  |  |  |  |
|  |  |  |  | Total P | aintin | ing Perimeter | = | 186.48 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | inting Ar | ea per | r Girder End | $=$ | 155.40 |  |  |  |  |  |  |  |  |
|  |  |  |  | Additi | nal f | for Stiffeners | = | 5\% |  |  |  |  |  |  |  |  |
|  |  |  |  | inting Ar | ea per | er Girder End | = | 163.17 |  |  |  |  |  |  |  |  |
|  |  |  |  | Num | er of | Girder Ends | = | 4 |  |  |  |  |  |  |  |  |
|  |  |  |  | 1 \& G4 | End P | Painting Area | $=$ | 652.69 |  |  |  |  |  |  |  |  |





| AECOM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Project HAM -042-0329 |  |  |  |  |  |  |  |  |  |  |  |  |  | Computed By KGR |  |  |  |  |  |  | 1/10/18 |  |  |
| Description McMillan Street over Reading Road |  |  |  |  |  |  |  |  |  |  |  |  |  | Checked By |  |  |  | KSC | Date |  | 1/10/18 |  |  |
| ITEM 514E00051 - SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL, AS PER UNIT: SFPLAN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ITEM 514E00057 - FIELD PAINTING OF EXISTING STRUCTURALSTEEL, PRIMECOAT, AS UNIT: SF PER PLAN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ITEM 514E00061 - FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, SYSTEM UNIT: SFOZEU, AS PER PLAN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ITEM 514E00067 - FIELD PAINTING STRUCTURALSTEEL, FINISH COAT, AS PER PLAN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | UNIT: SF |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| G2 and Transverse Bent |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | B Ang | gle | Distan | ance of | of Gir | rder | Angles |  | = | 6 f |  |  | . 00 in | $=$ |  | 78.00 | 0 in |  |  |  |  |
|  |  |  | Gird | der F | Flange | e/Co | ver P | Plate | Width |  | $=$ |  | 00 in |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Girder | Web | b Thi | ckness |  | $=$ | 0.437 | 75 in |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B-B Angle Distance of Bent Angles |  |  |  |  |  |  |  |  |  |  | $=$ | 3 f |  | 6.00 in |  | $=$ | 42.00 in |  |  |  |  |  |  |
|  |  |  | Bent Flange/Cover Plate Width |  |  |  |  |  |  |  | $=$ | 8.00 in |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Bent | Web | b Thic | ickness |  | $=$ | 0.437 | 75 in |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Total Painting Perimeter |  |  |  |  |  |  | $=$ | 28 ft |  | 4.50 in |  | $=$ | 340.50 in |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Elevation of Top of Pier Vault |  |  |  |  |  |  | $=$ | 783.5 | 50 ft |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Elevation of Center of Pin |  |  |  |  |  |  | = | 777.79 ft |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Painting Height |  |  |  | $=$ | 5 ft |  | 8.52 in |  | $=$ | 68.52 in |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Painting Area per Pier Leg |  |  |  |  |  |  |  | $=$ | 162.02 | 02 ft |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Additional for Stiffeners, Etc. |  |  |  |  |  |  |  | = |  | 5\% |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Painting Area per Pier Leg |  |  |  |  |  |  |  | = | 170.12 | 12 ft |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Number of G2 Pier Legs |  |  |  |  |  |  | $=$ | 4 |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | G2 Pier Leg Painting Area |  |  |  |  |  | $=680.49 \mathrm{ft}^{2}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} \hline \text { Subtotal Sheet } 6 \text { of } 6 \\ 680 \quad \text { SF } \end{gathered}$ |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total All Sheets 4313 SF |  |  |  |  |
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| AECOM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Project HAM -042-0329 |  |  |  |  |  |  |  |  |  |  |  |  |  | Computed By KGR |  |  |  |  | Date | 2/7/18 |  |
| Description McM illan Street over Reading Road |  |  |  |  |  |  |  |  |  |  |  |  |  | Checked By |  |  |  | KSC | Date | 2/7/18 |  |
| UNIT COST - ITEM 845E60000-SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL UNIT: SF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Similar Projects |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PID 91939 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| HAM-US50-03.76L/21.80N: Bridge Repair |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | erag | ge Bid | d Price |  |  | \$ |  | 49 | /SF |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Awar | rd Bid | d Price |  |  | \$ |  | . 98 | /SF |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Assumed Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Assumed Cost |  |  |  |  | \$ $50.00 / \mathrm{SF}$ |  |  |  |  |  |  |  |  |  |  |
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| AECOM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Project HAM-042-0329 |  |  |  |  |  |  |  |  |  |  |  |  |  | Computed By KGR |  |  |  |  | Date | 2/7/18 |  |  |
| Description McM illan Street over Reading Road |  |  |  |  |  |  |  |  |  |  |  |  |  | Checked By |  |  |  | KSC | Date | 2/7/18 |  |  |
| UNIT COST - ITEM 845E62000-FIELD METALIZING OF EXISTING STRUCTURAL STEEL UNIT: SF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Similar Projects |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| PID 87164 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PRE-SR 177-06.67/09.22: Bridge Repair |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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## Abutment Joint Armor







AECOM
Project HAM-042-0329
Description McMillan Street over Reading Road

| Computed By | KGR | Date | $1 / 9 / 18$ |
| :--- | :--- | :--- | :--- |
| Checked By | KSC | Date | $1 / 10 / 18$ |

ITEM 848E30200 - SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE
UNIT: CY THICKNESS), MATERIAL ONLY

## Approach Slabs

| Approach Slab Length Behind Header |  |  | $=$ | 20 ft |  | 0.00 in | = |  | 0.00 ft |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Roadway Width | = | 44 ft |  | 0.00 in | $=$ |  | 4.00 ft |
|  | Header and Approach Slab Area |  | = | 880.00 |  |  |  |  |  |
|  | Variable-Depth Overlay Area |  | $=$ | 30\% | (BD | M 412.2) |  |  |  |
|  | Variable-Depth Overlay Area |  | = | 264.00 |  |  |  |  |  |

Top of Slab to Bottom of Top M at Reinf. $=00 \mathrm{ft} 4.25 \mathrm{in}=0.35 \mathrm{ft}$
Hydrodemolition Depth $=0 \mathrm{ft} \quad 1.75 \mathrm{in}=0.15 \mathrm{ft}$
Avg. Variable-Depth Overlay Thickness $=0 \mathrm{ft} \quad 2.50 \mathrm{in}=0.21 \mathrm{ft}$ (BDM 412.2)






## AECOM

Project HAM-042-0329
Description McMillan Street over Reading Road

| Computed By | KGR | Date | $1 / 9 / 18$ |
| :--- | :--- | :--- | :--- |
| Checked By | KSC | Date | $1 / 10 / 18$ |

ITEM 848E50340-REM OVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE
UNIT: SY THICKNESS CONCRETE OVERLAY

Assume area is equal to variable-thickness overlay area
Bridge Deck
Proposed Variable-Depth Overlay Area $=2863.30 \mathrm{ft}^{2}$
Ex. Variable-Depth Overlay Removal Area $=2863.30 \mathrm{ft}^{2}$
Ex. Variable-Depth Overlay Removal Area $=318.14$ yd $^{2}$
Rounded Var.-Depth Overlay Removal Area $=319.00 \mathrm{yd}^{2}$

