

**PROJECT DESCRIPTION**

PAINT THE STRUCTURAL STEEL ON MULTIPLE MAINLINE BRIDGES ALONG THE I-71/I-480 CORRIDOR: CUY-17-0449, CUY-237-0813 SE, CUY-480-0856 ES, CUY-71-0994, CUY-71-1188 & CUY-71-0467.

**EXISTING STRUCTURE VERIFICATION**

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO SECTIONS 102.05, 105.02, AND 513.04 OF THE 2019 CONSTRUCTION AND MATERIAL SPECIFICATIONS.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PRE-BID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR.

THE EXISTING STRUCTURE PLANS MAY BE REVIEWED AT THE:  
OHIO DEPARTMENT OF TRANSPORTATION  
DISTRICT 12 OFFICE  
5500 TRANSPORTATION BOULEVARD  
GARFIELD HEIGHTS, OH 44125

OR  
HTTP://WWW.DOT.STATE.OH.US/DIVISIONS/CONTRACTADMIN/  
CONTRACTS/PAGES/DESIGNFILES.ASPX

**RIGHT OF WAY**

ALL WORK WILL BE PERFORMED WITHIN THE EXISTING RIGHT OF WAY OR EASEMENTS OR WITHIN STATE PROPERTY.

**LIMITS OF OPERATIONS**

THE CONTRACTOR'S ACTIVITIES AND WORK SCHEDULE SHALL BE CONSTRAINED BY THE FOLLOWING LIMITATIONS:  
1. MAINTENANCE OF TRAFFIC RESTRICTIONS (REFER TO MAINTENANCE OF TRAFFIC NOTES IN THIS PLAN).

**COOPERATION BETWEEN CONTRACTORS**

THE CONTRACTOR SHALL COOPERATE AND COORDINATE HER/HIS OPERATIONS WITH THE CONTRACTORS ON OTHER PROJECTS THAT MAY BE IN FORCE DURING THE LIFE OF THE CONTRACT. NO WAIVER OF ANY PROVISIONS OF 105.08 OF THE 2019 CONSTRUCTION AND MATERIAL SPECIFICATIONS IS INTENDED.

**MUNICIPALITIES**

THE CONTRACTOR SHALL NOTIFY THE CONTACTS BELOW AT LEAST 5 DAYS BEFORE WORK BEGINS IN THE RESPECTIVE MUNICIPALITY:

ANDREW R. CROSS, P.E., PTOE  
TRAFFIC ENGINEER  
CITY OF CLEVELAND  
DIVISION OF TRAFFIC ENGINEERING  
601 LAKESIDE AVE., ROOM 25  
CLEVELAND, OH 44114  
(216) 664-3197  
across@city.cleveland.oh.us

KEN MIKULA  
CITY ENGINEER  
CITY OF STRONGSVILLE  
16099 FOLTZ PARKWAY  
STRONGSVILLE, OHIO 44149  
(440) 580-3120  
ken.mikula@strongsville.org

BRIAN BEYER  
SERVICE DIRECTOR  
CITY OF BROOK PARK  
5590 SMITH ROAD  
BROOK PARK, OHIO 44142  
216-433-7192  
bbeyer@cityofbrookpark.com

**UTILITIES**

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

BREEZELINE  
105 BLAZE INDUSTRIAL PARKWAY  
BEREA, OH 44017  
ATTN: BOB HAMMOND  
PHONE: (440) 606-6262  
rhammond@breezeline.com

AT&T OHIO  
13630 LORAIN AVENUE  
CLEVELAND, OH 44111  
ATTN: JAMES JANIS  
DESIGN MANAGER  
PHONE: (216) 534-7285  
peter.janis@att.com

BP  
4421 BRADLEY ROAD  
CLEVELAND, OH 44109  
ATTN: TERRIE BERRY  
PHONE: (918) 409-6197  
Terrie.Berry@bp.com

CHARTER COMMUNICATIONS  
8179 DOW CIRCLE  
STRONGSVILLE, OH 44136  
ATTN: RICK PALENCAR  
CONSTRUCTION COORDINATOR  
PHONE: (216) 575-8016 (OFFICE)  
(440) 343-6606 (MOBILE)  
Rick.Palencar@charter.com

CITY OF BROOK PARK  
SIGNALS  
SIGNAL SERVICE COMPANY  
4341 CRANWOOD PKWY  
CLEVELAND, OH 44128  
PHONE: (216) 662-4820  
signal@signalservicecompany.net

CLEVELAND PUBLIC POWER  
1300 LAKESIDE AVENUE  
CLEVELAND, OH 44114  
ATTN: CHRISTOPHER HIRZEL  
PHONE: (216) 563-7212 (DIRECT)  
(216) 664-3922 (OFFICE)  
chirzel@cpp.org

CLEVELAND WATER DEPARTMENT  
1201 LAKESIDE AVENUE  
CLEVELAND, OH 44114  
ATTN: FRED ROBERTS  
PHONE: (216) 664-2444  
fred\_roberts@ClevelandWater.com

CROWN CASTLE  
15565 NEO PARKWAY  
GARFIELD HEIGHTS, OH 44128  
ATTN: JON TARNOWSKI  
PHONE: (614) 940-2462  
Jon.Tarnowski@crowncastle.com

DOMINION ENERGY OHIO  
320 SPRINGSIDE DRIVE  
AKRON, OH 44333  
ATTN: JAMES SHEEHE  
PHONE: (330) 807-9655  
James.C.Sheehe@dominionenergy.com

EVERSTREAM  
1228 EUCLID AVENUE, SUITE 250  
CLEVELAND, OH 44115  
ATTN: STACEY DASHER  
PHONE: (216) 408-9205  
sdasher@everstream.net

ILLUMINATING CO./FIRST ENERGY  
6896 MILLER ROAD, SUITE 101  
BRECKSVILLE, OH 44141  
ATTN: JOHN ZASSICK  
PHONE: (440) 546-8706  
jmzassick@firstenergycorp.com

LUMEN FOR CENTURYLINK  
4000 CHESTER AVENUE  
CLEVELAND, OH 44103  
ATTN: DOUG HOLLOWAY  
PHONE: (216) 906-6284  
doug.holloway@lumen.com

MCI/VERIZON  
12300 RIDGE ROAD  
NORTH ROYALTON, OH 44133  
ATTN: DANIEL ARZ  
PHONE: (216) 570-9343  
daniel.arz@verizon.com

NEORS  
3900 EUCLID AVENUE  
CLEVELAND, OH 44115  
ATTN: MARY MACIEJOWSKI  
PHONE: (216) 881-6600  
MaciejowskiM@neors.org

TRANS CANADA/COLUMBIA  
GAS TRANSMISSION  
589 NORTH STATE STREET  
MEDINA, OH 44256  
ATTN: RUSSELL JOHNSON  
PHONE: (330) 410-4379  
russell\_johnson@transcanada.com

WATER POLLUTION CONTROL  
12302 KIRBY AVENUE  
CLEVELAND, OH 44108  
ATTN: ELIE RAMY  
PHONE: (216) 664-2756  
eramy@ClevelandWPC.com

WINDSTREAM  
560 TERNES AVENUE  
ELYRIA, OH 44035  
ATTN: GEOFFREY HAMM  
PHONE: (330) 256-6133  
geoffrey.p.hamm@windstream.com

**UTILITY COORDINATION**

THE CONTRACTOR IS TO COORDINATE/COMMUNICATE THE RELOCATION NEEDS AND SCHEDULE AT EACH LOCATION WITH EACH UTILITY THAT IS REQUIRED TO RELOCATE.

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER, OR ADJACENT TO, THE WORK AREA.

THE CONTRACTOR SHALL EXERCISE CAUTION WHILE PERFORMING WORK ACTIVITIES NEAR ANY UTILITY CONDUITS LOCATED IN THE SUPERSTRUCTURE BEAM BAYS. IF ANY UTILITIES ARE DAMAGED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE APPROPRIATE UTILITY OWNER(S).

LISTED BELOW ARE KNOWN AERIAL OR CONDUIT SUPPORTED UTILITY CONFLICTS WITH THE ANTICIPATED RELOCATIONS:

AT&T OHIO  
CHARTER COMMUNICATIONS  
CITY OF BROOK PARK SIGNALS  
CLEVELAND PUBLIC POWER  
CROWN CASTLE  
EVERSTREAM  
LUMEN FOR CENTURYLINK  
WINDSTREAM

LOCATION 1

AERIAL AND CONDUIT SUPPORTED UTILITIES ARE NOT PRESENT.

LOCATION 2

CHARTER COMMUNICATIONS AND EVERSTREAM HAVE AERIAL LINES THAT SPAN UNDER THE BRIDGE. THESE UTILITY OWNERS SHALL LOWER THEIR LINES AT LEAST 2 FEET BELOW THE BEARINGS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL PROTECT AND NOT DISTURB THESE UTILITY LINES.

CONDUIT SUPPORTED UTILITIES ARE NOT PRESENT.

LOCATION 3

AERIAL AND CONDUIT SUPPORTED UTILITIES ARE NOT PRESENT.

LOCATION 4

AT&T OHIO, CHARTER COMMUNICATIONS, THE CITY OF BROOK PARK SIGNALS, CROWN CASTLE, EVERSTREAM, AND WINDSTREAM HAVE AERIAL LINES THAT SPAN UNDER THE BRIDGE. THESE UTILITY OWNERS SHALL LOWER THEIR LINES AT LEAST 2 FEET BELOW THE BEARINGS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL PROTECT AND NOT DISTURB THESE UTILITY LINES.

CONDUIT SUPPORTED UTILITIES ARE NOT PRESENT.

LOCATION 5

AT&T OHIO AND LUMEN FOR CENTURYLINK HAVE AERIAL LINES THAT SPAN UNDER THE BRIDGE. THESE UTILITY OWNERS SHALL LOWER THEIR LINES AT LEAST 2 FEET BELOW THE BEARINGS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL PROTECT AND NOT DISTURB THESE UTILITY LINES.

CLEVELAND PUBLIC POWER HAS AERIAL ELECTRIC LINES THAT SPAN UNDER THE BRIDGE. CPP SHALL RELOCATE THEIR FACILITIES UNDERGROUND BY END OF 2022. THE CONTRACTOR SHALL PROTECT AND NOT DISTURB THESE UTILITY LINES.

CONDUIT SUPPORTED UTILITIES ARE NOT PRESENT.

**UTILITY COORDINATION (CONTINUED)**

LOCATION 6

THE EXISTING AT&T OHIO 6-DUCT RUN SUPPORTED BY THE BRIDGE BEAMS SHALL REMAIN. THE BRIDGE CONDUIT SUPPORTS FOR AT&T'S CONDUITS CAN BE PAINTED. THE CONTRACTOR SHALL PROTECT AND NOT DISTURB THESE UTILITY LINES.

AERIAL UTILITIES ARE LOCATED TO THE NORTH OF THE BRIDGE BUT ARE NOT IN CONFLICT WITH THE WORK.

**CONSTRUCTION NOISE**

AT LOCATION 1 (CUY-17-0449), LOCATION 2 (CUY-237-0813 SE), AND LOCATION 4 (CUY-71-0994), ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION-TYPE DEVICES SHALL NOT BE OPERATED BETWEEN THE HOURS OF 8 PM AND 6 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

AT LOCATION 3 (CUY-480-0856 ES), LOCATION 5 (CUY-71-1188), AND LOCATION 6 (CUY-71-0467) NIGHT WORK DURING PERMITTED LANE CLOSURE TIMES MAY BE REQUIRED IN ORDER TO CLOSE LANES AND PERFORM WORK OVER THE HIGHWAY. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT. SEE MAINTENANCE OF TRAFFIC GENERAL NOTES FOR ADDITIONAL INFORMATION.

**ENVIRONMENTAL**

ALL WORK IS TO BE WITHIN THE EXISTING RIGHT-OF-WAY. NO WORK IS PERMITTED WITHIN STREAMS, WETLANDS, OR POLLINATOR INITIATIVE SITES.

**SCHEDULE LIMITATIONS**

AT LOCATIONS 3 AND 4, PROJECT CUY-71-5.71 (PID 87904) IS ONGOING WITH MAINTENANCE OF TRAFFIC ZONES IN PLACE ON IR-71. THIS PROJECT IS EXPECTED TO CONCLUDE BY THE END OF CALENDAR YEAR 2023. NO WORK SHALL TAKE PLACE AT LOCATIONS 3 AND 4 UNTIL CALENDAR YEAR 2024, AFTER THE WORK ON PROJECT CUY-71-5.71 (PID 87904) IS COMPLETE.

**ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN**

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING, AS PER PLAN. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING, AS PER PLAN. THIS ITEM INCLUDES TRIMMING BACK OF ALL TREE BRANCHES AND BRUSH THAT ARE WITHIN 10'-0" OF ANY LOCATION TO HAVE A PAINTED OR SEALED SURFACE. NO COMPLETE TREE REMOVALS ARE PERMITTED, AND NO TREE REMOVALS ARE REQUIRED FOR CONSTRUCTION ACCESS.

DESIGN AGENCY



DESIGNER

JSP

REVIEWER

WER 2-22-22

PROJECT ID

105814

SHEET TOTAL

5 17



**ITEM 202 - REMOVAL MISC.: BIRD DETERRENT SPIKES REMOVED**

THIS ITEM CONSISTS OF REMOVING AND DISPOSING OF THE EXISTING BIRD DETERRENT SPIKES ON THE BEAM FLANGES AT LOCATION 5 PRIOR TO BEGINNING THE SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL. THE DEPARTMENT WILL MEASURE THIS WORK AS A LUMP SUM. THIS ITEM INCLUDES ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. THE DEPARTMENT WILL MAKE PAYMENT FOR THE COMPLETED WORK UNDER ITEM 202 - REMOVAL MISC.: BIRD DETERRENT SPIKES REMOVED.

**ITEM 514 - FIELD PAINTING**

THE CONTRACTOR SHALL NOT OVERSPRAY ONTO THE CONCRETE DECK OR CONCRETE SUBSTRUCTURE COMPONENTS (BACK WALLS, ABUTMENTS, AND PIERS). PAINTING SHALL BE CONFINED TO THE STRUCTURAL STEEL COMPONENTS, UTILITY SUPPORTS, AND THE DRAINAGE SCUPPERS INCLUDING DOWNSPOUTS.

UTILITY CONDUITS SHALL NOT BE PAINTED AND SHALL BE PROTECTED FROM SANDBLASTING. STEEL UTILITY SUPPORTS AND DRAINAGE SCUPPERS SHALL BE PAINTED.

AT LOCATIONS 1 THRU 5 THE COLOR OF THE FINISH COAT SHALL BE FCN 595A-16440 (LIGHT GREY, GLOSS).

AT LOCATION 6 FOR THE FASCIA BEAM EXTERIOR SURFACES, INCLUDING THE BOTTOM SURFACE OF THE BOTTOM FLANGE, THE COLOR OF THE FINISH COAT SHALL BE FCN 595B-14066 (DARK GREEN, GLOSS). FOR ALL OTHER SURFACES, THE COLOR OF THE FINISH COAT SHALL BE FCN 595B-14516 (LIGHT GREEN, GLOSS).

**ITEM 619 - FIELD OFFICE, TYBE B, AS PER PLAN**

A TYBE B FIELD OFFICE IS REQUIRED FOR THIS PROJECT.

THE FOLLOWING REVISIONS TO EQUIPMENT SUPPLIED WITH THE TYPE B FIELD OFFICE, AS SPECIFIED IN TABLE 619.02-1, FIELD OFFICE, SHALL APPLY:

THE COPIER SUPPLIED MUST MEET THE REQUIREMENTS OF COPIER SUPPLIED WITH THE TYPE C FIELD OFFICE.

THE BROADBAND INTERNET CONNECTION MUST MEET THE REQUIREMENTS OF THE MINIMUM DOWNLOAD SPEEDS SUPPLIED WITH THE TYPE C FIELD OFFICE.

ALL OTHER OFFICE ITEMS SUPPLIED SHALL MEET THE REQUIREMENTS OF A TYPE B FIELD OFFICE.

**STAGING AREAS**

THERE ARE NO SPECIFIC AREAS GIVEN IN THE PLANS FOR THE CONTRACTOR TO USE AS STAGING AREA(S). IF THE CONTRACTOR WANTS TO USE AN AREA(S) FOR STAGING, REGARDLESS IF IT FALLS WITHIN THE PROJECT LIMITS OR NOT, THE CONTRACTOR IS TO CONTACT DISTRICT12PERMITS@DOT.OHIO.GOV IN ORDER TO APPLY FOR A PERMIT PER SECTION 107.02 OF THE CMS. IF A PERMIT IS GRANTED, ALL CONDITIONS OF THE PERMIT SHALL BE MET IN ADDITION TO THE REQUIREMENTS OF 104.04 OF THE CMS, AT NO COST TO THE STATE. IF THE PROJECT ENGINEER DEEMS THAT ALL THE CONDITIONS OF THE PERMIT WERE NOT MET, THEN 10% OF THE CONTRACT BID AMOUNT FOR MOBILIZATION SHALL BE WITHHELD UNTIL ALL CONDITIONS OF THE PERMIT ARE SATISFIED.

**CONTRACTOR'S EQUIPMENT - OPERATION AND STORAGE**

VEHICLES AND EQUIPMENT SHALL ALWAYS MOVE WITH, AND NOT ACROSS OR AGAINST THE FLOW OF TRAFFIC. VEHICLES AND OTHER EQUIPMENT SHALL NOT PARK OR STOP EXCEPT WITHIN THE DESIGNATED WORK AREAS; AND SHALL NOT ENTER AND LEAVE WORK AREAS IN A MANNER WHICH WILL BE HAZARDOUS TO, OR INTERFERE WITH THE NORMAL TRAFFIC FLOW. PERSONAL VEHICLES WILL NOT BE PERMITTED TO PARK WITHIN THE RIGHT OF WAY EXCEPT IN SPECIFIC AREAS DESIGNATED BY THE ENGINEER.

EQUIPMENT, VEHICLES AND MATERIALS SHALL NOT BE STORED OR PARKED WITHIN 30 FEET OF THE TRAVELED WAY UNLESS 6 FEET BEHIND PORTABLE BARRIER OR GUARDRAIL.

ALL WORK VEHICLES AND EQUIPMENT THAT ENTERS THE WORK ZONE MORE THAN ONCE A DAY MUST BE EQUIPPED WITH AT LEAST ONE FLASHING, ROTATING, OR OSCILLATING AMBER LIGHT THAT IS VISIBLE IN ALL DIRECTIONS OF TRAFFIC FOR AT LEAST ONE QUARTER OF A MILE, DAY OR NIGHT.

**ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN**

AN OHIO PROFESSIONAL SURVEYOR SHALL DETERMINE THE MINIMUM VERTICAL CLEARANCES OF ALL EXISTING AND NEW BRIDGES WITHIN THE PROJECT LIMITS. AT A MINIMUM, MEASUREMENTS SHALL BE TAKEN ALONG EACH FASCIA BEAM AT THE EDGE OF SHOULDERS, EDGE LINES, LANE LINES, AND CROWN OF THE ROADWAY BELOW. THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM SHALL BE USED, WHERE APPLICABLE, TO DOCUMENT THE MEASUREMENTS. WHERE THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM IS NOT APPLICABLE, THE MEASUREMENTS SHALL BE DOCUMENTED ON A CONTRACTOR-DEVELOPED FORM THAT CLOSELY RESEMBLES THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM AND ACCURATELY DEPICTS THE BRIDGE AND BELOW LANE AND SHOULDER CONFIGURATION. THE COMPLETED FORM SHALL BEAR THE STAMP OR SEAL OF THE OHIO PROFESSIONAL SURVEYOR WHO HAS TAKEN THE MEASUREMENTS AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM CAN BE DOWNLOADED FROM THE FOLLOWING FTP WEBSITE:

FTP://FTP.DOT.STATE.OH.US/PUB/CONTRACTS/ATTACH/CUY-105814

**ITEM SPECIAL - STRUCTURES, REMOVE AND REINSTALL TIMBER SUBDECK**

THIS ITEM CONSISTS OF REMOVING AND REINSTALLING THE EXISTING TIMBER SUBDECK IN THE SPANS OVER IR-71 AT LOCATION 6.

REMOVE THE EXISTING TIMBER SUBDECK FOR BRIDGE PAINTING AND STORE THE MATERIALS FOR REUSE. UPON COMPLETION OF BRIDGE PAINTING, REINSTALL THE TIMBER SUBDECK TO THE ORIGINAL LIMITS ABOVE TRAVELED LANES AS WELL AS PAVED SHOULDERS. REPLACE ANY MATERIAL AND HARDWARE NOT SALVAGED AND REUSED AT NO ADDITIONAL COST TO THE DEPARTMENT.

**MATERIALS:**

TIMBER BEAMS SHALL CONFORM TO CMS 711.26 AND SHALL BE DOUGLAS FIR LARCH WITH A COMMERCIAL GRADE OF NO. 2 OR BETTER OR SOUTHERN YELLOW PINE WITH A COMMERCIAL GRADE OF NO. 2 OR BETTER. PRESERVATIVE TREATMENT FOR TIMBER BEAMS SHALL CONFORM TO CMS 712.06.

TIMBER SHEATHING SHALL BE 3/4" CDX PRESERVATIVE TREATED PLYWOOD MANUFACTURED FROM EITHER DOUGLAS FIR OR SOUTHERN YELLOW PINE. ALL TRANSVERSE EDGES OF THE PLYWOOD SHALL BE SUPPORTED BY THE TIMBER BEAMS.

BOLTS SHALL BE ASTM A449 TYPE 1 OR SAE J429 GRADE 5, 3/8" DIAMETER GALVANIZED BOLTS WITH GALVANIZED FENDER WASHERS AND LOCK NUTS. SPACING OF THE BOLTS SHALL BE A MAXIMUM OF 2 FOOT SPACING.

WOOD SCREWS SHALL BE GALVANIZED 3" LONG #10 FASTENERS SPACED AT 2 FOOT MAXIMUM, UNLESS OTHERWISE NOTED.

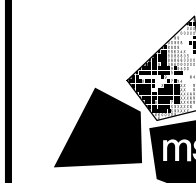
**GENERAL:**

TAKE FIELD MEASUREMENTS BEFORE ANY REMOVAL OR FABRICATION IS PERFORMED. DOCUMENT THE AS-BUILT LIMITS OF THE EXISTING TIMBER SUBDECK BEFORE REMOVAL. TO AID IN LATER REINSTALLATION, THE CONTRACTOR MAY MARK THE EXISTING TIMBER SHEATHING PANELS AND THE EXISTING TIMBER BEAMS TO IDENTIFY THEIR ORIGINAL LOCATIONS.

**METHOD OF MEASUREMENT AND PAYMENT:**

THE DEPARTMENT WILL MEASURE THE QUANTITY BY THE SQUARE FOOT, IN PLACE AND ACCEPTED. THIS ITEM INCLUDES ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE REMOVAL AND REINSTALLATION OF THE TIMBER SUBDECK. THE DEPARTMENT WILL MAKE PAYMENT FOR THE COMPLETED AND ACCEPTED QUANTITIES OF THIS WORK UNDER ITEM SPECIAL - STRUCTURES, REMOVE AND REINSTALL TIMBER SUBDECK.

DESIGN AGENCY



ms consultants, inc.

DESIGNER

JSP

REVIEWER

WER 2-22-22

PROJECT ID


105814

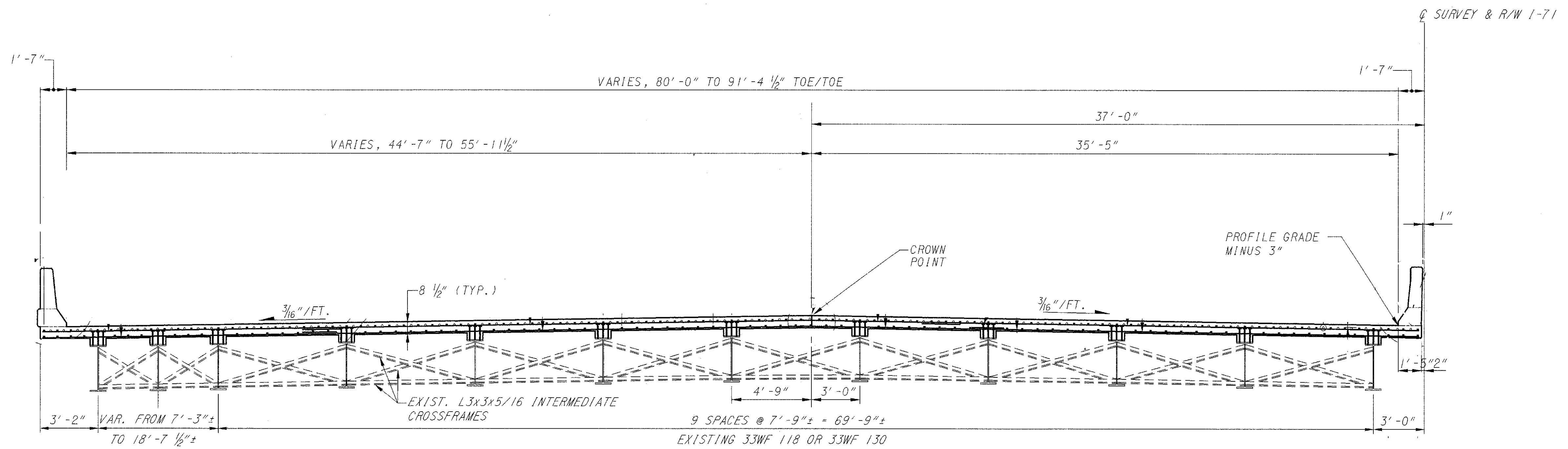
SHEET TOTAL

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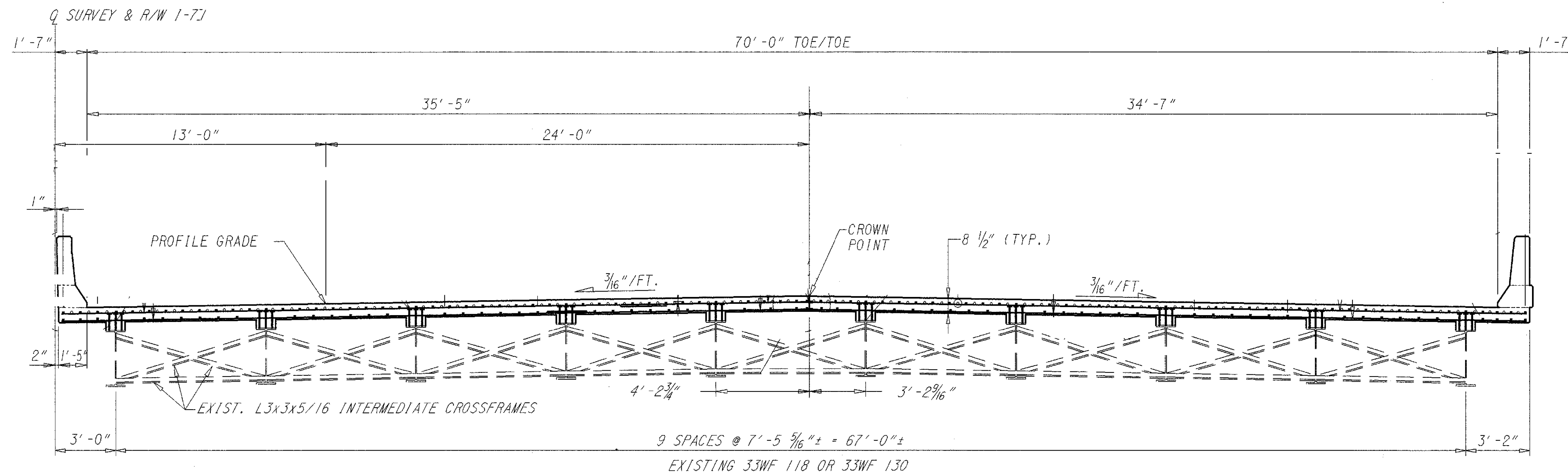


| SHEET NUM. |       |        |        |        |    |    |    |  |  |  | PART.    | ITEM    | ITEM     | GRAND  | UNIT | DESCRIPTION  | SEE SHEET NO. |
|------------|-------|--------|--------|--------|----|----|----|--|--|--|----------|---------|----------|--------|------|--|---------------|
| 5          | 9     | 12     | 13     | 14     | 15 | 16 | 17 |  |  |  | 01/MS/BR | EXT     | TOTAL    |        |      |  |               |
| LS         |       |        |        |        |    |    |    |  |  |  | LS       | 201     | 11001    | LS     |      | ROADWAY<br>CLEARING AND GRUBBING, AS PER PLAN  | 5             |
|            |       |        |        |        |    |    |    |  |  |  | 1,000    | 832     | 30000    | 1,000  | EACH | EROSION CONTROL  |               |
|            |       |        |        |        |    |    |    |  |  |  |          |         |          |        |      | TRAFFIC CONTROL  |               |
|            | 1.2   |        |        |        |    |    |    |  |  |  | 1.2      | 644     | 00104    | 1.2    | MILE | EDGE LINE, 6"  |               |
|            | 1,560 |        |        |        |    |    |    |  |  |  | 1,560    | 644     | 00700    | 1,560  | FT   | TRANSVERSE/DIAGONAL LINE   |               |
|            |       | 13,000 |        |        |    |    |    |  |  |  | 13,000   | 514     | 00050    | 13,000 | SF   | <b>STRUCTURE OVER 20 FOOT SPAN (CUY-17-0449; SFN 1802054) - LOCATION 1</b><br>SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL |               |
|            |       | 13,000 |        |        |    |    |    |  |  |  | 13,000   | 514     | 00056    | 13,000 | SF   | FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT  |               |
|            |       | 13,000 |        |        |    |    |    |  |  |  | 13,000   | 514     | 00060    | 13,000 | SF   | FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT   |               |
|            |       | 13,000 |        |        |    |    |    |  |  |  | 13,000   | 514     | 00066    | 13,000 | SF   | FIELD PAINTING STRUCTURAL STEEL, FINISH COAT   |               |
|            |       | 19     |        |        |    |    |    |  |  |  | 19       | 514     | 00504    | 19     | MNHR | GRINDING FINNS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL  |               |
|            |       | 14     |        |        |    |    |    |  |  |  | 14       | 514     | 10000    | 14     | EACH | FINAL INSPECTION REPAIR  |               |
|            |       |        |        |        |    |    |    |  |  |  |          |         |          |        |      | <b>STRUCTURE OVER 20 FOOT SPAN (CUY-237-0813 SE; SFN 1802089) - LOCATION 2</b>   |               |
|            |       |        | 11,300 |        |    |    |    |  |  |  | 11,300   | 514     | 00050    | 11,300 | SF   | SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL   |               |
|            |       |        | 11,300 |        |    |    |    |  |  |  | 11,300   | 514     | 00056    | 11,300 | SF   | FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT  |               |
|            |       |        | 11,300 |        |    |    |    |  |  |  | 11,300   | 514     | 00060    | 11,300 | SF   | FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT   |               |
|            |       |        | 11,300 |        |    |    |    |  |  |  | 11,300   | 514     | 00066    | 11,300 | SF   | FIELD PAINTING STRUCTURAL STEEL, FINISH COAT   |               |
|            |       |        | 16     |        |    |    |    |  |  |  | 16       | 514     | 00504    | 16     | MNHR | GRINDING FINNS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL  |               |
|            |       |        | 10     |        |    |    |    |  |  |  | 10       | 514     | 10000    | 10     | EACH | FINAL INSPECTION REPAIR  |               |
|            |       |        |        |        |    |    |    |  |  |  |          |         |          |        |      | <b>STRUCTURE OVER 20 FOOT SPAN (CUY-480-0856 ES; SFN 1804472) - LOCATION 3</b>   |               |
|            |       |        |        | 32,400 |    |    |    |  |  |  | 32,400   | 514     | 00050    | 32,400 | SF   | SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL   |               |
|            |       |        |        | 32,400 |    |    |    |  |  |  | 32,400   | 514     | 00056    | 32,400 | SF   | FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT  |               |
|            |       |        |        | 32,400 |    |    |    |  |  |  | 32,400   | 514     | 00060    | 32,400 | SF   | FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT   |               |
|            |       |        |        | 32,400 |    |    |    |  |  |  | 32,400   | 514     | 00066    | 32,400 | SF   | FIELD PAINTING STRUCTURAL STEEL, FINISH COAT   |               |
|            |       |        |        | 29     |    |    |    |  |  |  | 29       | 514     | 00504    | 29     | MNHR | GRINDING FINNS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL  |               |
|            |       |        |        | 20     |    |    |    |  |  |  | 20       | 514     | 10000    | 20     | EACH | FINAL INSPECTION REPAIR  |               |
|            |       |        |        |        |    |    |    |  |  |  |          |         |          |        |      | <b>STRUCTURE OVER 20 FOOT SPAN (CUY-71-0994; SFN 1804537) - LOCATION 4</b>   |               |
|            |       |        |        | 23,700 |    |    |    |  |  |  | 23,700   | 514     | 00050    | 23,700 | SF   | SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL   |               |
|            |       |        |        | 23,700 |    |    |    |  |  |  | 23,700   | 514     | 00056    | 23,700 | SF   | FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT  |               |
|            |       |        |        | 23,700 |    |    |    |  |  |  | 23,700   | 514     | 00060    | 23,700 | SF   | FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT   |               |
|            |       |        |        | 23,700 |    |    |    |  |  |  | 23,700   | 514     | 00066    | 23,700 | SF   | FIELD PAINTING STRUCTURAL STEEL, FINISH COAT   |               |
|            |       |        |        | 38     |    |    |    |  |  |  | 38       | 514     | 00504    | 38     | MNHR | GRINDING FINNS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL  |               |
|            |       |        |        | 27     |    |    |    |  |  |  | 27       | 514     | 10000    | 27     | EACH | FINAL INSPECTION REPAIR  |               |
|            |       |        |        |        |    |    |    |  |  |  |          |         |          |        |      | <b>STRUCTURE OVER 20 FOOT SPAN (CUY-71-1188; SFN 1804898) - LOCATION 5</b>   |               |
|            |       |        |        | LS     |    |    |    |  |  |  | LS       | 202     | 98000    | LS     |      | REMOVAL MISC.: BIRD DETERRENT SPIKES REMOVED   | 6             |
|            |       |        |        | 43,400 |    |    |    |  |  |  | 43,400   | 514     | 00050    | 43,400 | SF   | SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL   |               |
|            |       |        |        | 43,400 |    |    |    |  |  |  | 43,400   | 514     | 00056    | 43,400 | SF   | FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT  |               |
|            |       |        |        | 43,400 |    |    |    |  |  |  | 43,400   | 514     | 00060    | 43,400 | SF   | FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT   |               |
|            |       |        |        | 43,400 |    |    |    |  |  |  | 43,400   | 514     | 00066    | 43,400 | SF   | FIELD PAINTING STRUCTURAL STEEL, FINISH COAT   |               |
|            |       |        |        | 70     |    |    |    |  |  |  | 70       | 514     | 00504    | 70     | MNHR | GRINDING FINNS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL  |               |
|            |       |        |        | 43     |    |    |    |  |  |  | 43       | 514     | 10000    | 43     | EACH | FINAL INSPECTION REPAIR  |               |
|            |       |        |        |        |    |    |    |  |  |  |          |         |          |        |      | <b>STRUCTURE OVER 20 FOOT SPAN (CUY-71-0467; SFN 1803875) - LOCATION 6</b>   |               |
|            |       |        |        | 16,600 |    |    |    |  |  |  | 16,600   | 514     | 00050    | 16,600 | SF   | SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL   |               |
|            |       |        |        | 16,600 |    |    |    |  |  |  | 16,600   | 514     | 00056    | 16,600 | SF   | FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT  |               |
|            |       |        |        | 16,600 |    |    |    |  |  |  | 16,600   | 514     | 00060    | 16,600 | SF   | FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT   |               |
|            |       |        |        | 16,600 |    |    |    |  |  |  | 16,600   | 514     | 00066    | 16,600 | SF   | FIELD PAINTING STRUCTURAL STEEL, FINISH COAT   |               |
|            |       |        |        | 24     |    |    |    |  |  |  | 24       | 514     | 00504    | 24     | MNHR | GRINDING FINNS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL  |               |
|            |       |        |        | 15     |    |    |    |  |  |  | 15       | 514     | 10000    | 15     | EACH | FINAL INSPECTION REPAIR  |               |
|            |       |        |        | 4,664  |    |    |    |  |  |  | 4,664    | SPECIAL | 53000600 | 4,664  | SF   | STRUCTURES, REMOVE AND REINSTALL TIMBER SUBDECK  | 6             |

DESIGN AGENCY  
  
 ms consultants, inc.  
 DESIGNER  
 JSP  
 REVIEWER  
 WER 2-22-22  
 PROJECT ID  
 105814  
 SHEET TOTAL  
 10 17



**TRANSVERSE SECTION**  
LEFT BRIDGE



**TRANSVERSE SECTION**  
RIGHT BRIDGE

| CUY-71-1188 (SFN 1804898) - ESTIMATED QUANTITIES |           |       |          |  |
|--|-----------|-------|----------|--|
| ITEM   | ITEM EXT. | QTY   | UNIT     | DESCRIPTION  |
| 202  | 98000     | LS    |          | REMOVAL MISC.: BIRD DETERRENT SPIKES REMOVED                   |
| 514  | 00050     | 43400 | SF       | SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL               |
| 514  | 00056     | 43400 | SF       | FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT        |
| 514  | 00060     | 43400 | SF       | FIELD PAINTING OF EXISTING STRUCTURAL STEEL, INTERMEDIATE COAT |
| 514  | 00066     | 43400 | SF       | FIELD PAINTING OF EXISTING STRUCTURAL STEEL, FINISH COAT       |
| 514  | 00504     | 70    | MAN HOUR | GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL     |
| 514  | 10000     | 43    | EACH     | FINAL INSPECTION REPAIR  |

ALL QUANTITIES CARRIED TO GENERAL SUMMARY.

**NOTES:**

1. DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY.
2. PERFORM ONLY THE WORK AS INDICATED IN THE ESTIMATED QUANTITIES AND/OR DESCRIBED IN GENERAL NOTES.

|               |         |
|---------------|---------|
| SFN           | 1804898 |
| DESIGN AGENCY |         |
| DESIGNER      | JSP     |
| CHECKER       | JDH     |
| REVIEWER      | WER     |
| PROJECT ID    | 105814  |
| SUBSET        | 5       |
| TOTAL         | 6       |
| SHEET         | 16      |
| TOTAL         | 17      |