CONSTRUCTION NOTES:

THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

SEE SPECIAL PROVISIONS FOR ALL XXXX.XXX SERIES PAY ITEMS FOR ADDITIONAL REQUIREMENTS.

PLANS OF INPLACE BRIDGES 69101, 69102, AND 69839 ARE AVAILABLE AT THE MINNESOTA DEPARTMENT OF TRANSPORTATION.

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DESIGN UNIT: JESSICA DUNCAN
S.P. 6933-95

BRIDGE NO. 69101

MICHIGAN ST. TO MESA AV. & SUPERIOR ST. OVER MESA AV. & 1/8 MILE NORTH OF 20TH AVE. & 1/8 MILE N OF T.J. 2 IN DULUTH

SEC. N T 50 N R 14 W
CITY OF DULUTH ST. LOUIS COUNTY
JOB NO. T60566 STATE PROJ. NO. 6933-69839

BRIDGE NO. 69102

THROUGH Span 10.66 1.00 1.00 T.J. 2 IN DULUTH
SEC. N T 49 N R 14 W
CITY OF DULUTH ST. LOUIS COUNTY
JOB NO. T60566 STATE PROJ. NO. 6933-69839

BRIDGE NO. 69839

MICHIGAN ST. TO MESA AV. & SUPERIOR ST. OVER MESA AV. & 1/8 MILE SOUTH OF 20TH AVE. & 1/8 MILE S OF T.J. 2 IN DULUTH
SEC. N T 50 N R 14 W
CITY OF DULUTH ST. LOUIS COUNTY
JOB NO. T60566 STATE PROJ. NO. 6933-69839

APPROVED DATED 2014-04-10 CIVIL ENGINEER
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1. INCLUDES ALL MATERIALS, EXCEPTING SPECIAL PROVISIONS.
2. SEE SPECIAL PROVISIONS FOR DESCRIPTION OF WORK AND ADDITIONAL INFORMATION.
3. QUANTITY BASED ON ESTIMATED LENGTH OF PAVING BRACKET TO REMAIN IN PLACE, SEE SPECIAL PROVISIONS.
NOTES

1. REMOVE INPLACE RAILINGS (INCLUDING EMBEDDED CONDUIT, CURBS, END BLOCKS, CONCRETE DECK AND MEANING COURSE). DECK SHALL BE REMOVED USING SAWING AND SANDING TO PROTECT THE EXISTING SHEAR CONNECTORS AND STEEL SUPERSTRUCTURE. SEE REMOVAL SHEETS FOR DETAILS INCLUDED IN ITEM "REMOVE EXISTING CURBS, RAILINGS, AND BARRIERS". REMOVE PORTIONS OF THE WINDWALL APPROACH CURBS AND BARRIERS INCLUDED IN ITEM "REMOVE CURBS".

2. SALVAGE ALL SHEAR CONNECTORS AT TOP OF BEAMS. ANY SHEAR CONNECTORS DAMAGED DURING DECK REMOVAL SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. SEE SPECIAL PROVISIONS.

3. SEE SUPERELEVATION TABLE FOR VALUES. ALL SUPERELEVATION TRANSITIONS ARE LINEAR.

4. PLACE NEW DECK USING "BRIDGE SLAB CONCRETE O/S+64P-164"

5. PLACE NEW 36" BARRIERS TYPE 5 ON BOTH EDGES OF DECK AND APPROACH PANELS, INCLUDED IN ITEM "TYPE 5 (145) 36" BARRIER CONCRETE 11595Y". Orients vertical axis of north and south barriers flush with the bridge and the approach panels.

6. CLEAN AND PRIME PAINT ALL TOP FLANGES, INCLUDED IN ITEM "CLEAN AND PAINT STEEL". SEE SPECIAL PROVISIONS.

7. INSTALL NEW REDUNDANCY DIAPHRAGM, INCLUDED IN ITEM "SUPPLEMENTAL STEEL DIAPHRAGM". INSTALL NEW TRANSVERSE STIFFENERS, INCLUDED IN ITEM "SUPPLEMENTAL STIFFENER". INSTALL NEW CORE BEAM, INCLUDED IN ITEM "STEEL CORE MEMBER". INSTALL NEW LATERAL BRACES THAT CORRESPOND WITH NEW REDUNDANCY DIAPHRAGM, INCLUDED IN ITEM "RESTRUCTURE LATERAL BRACING". SEE SUPERSTRUCTURE DETAILS SHEETS.

8. PAINT EXISTING STEEL MEMBERS WITH ASST-STD-5560 COLOR 10075 (REDWOOD BROWN). LIMITS OF PAINTING INCLUDE EXTERIOR FACES OF PIER CAPS AND STEEL COLUMNS, BEARINGS AT SUPPORTS, ALL EXPOSED SURFACES OF BUNDLES AND ALL DIAPHRAGMS IN ITEM "ORGANIC ZINC-RICH PAINT SYSTEM 60Y". SEE SPECIAL PROVISIONS.

9. INSTALL ADDITIONAL SHEAR STUDS AS INDICATED ON STEEL REPAIR DETAILS SHEETS AND SUPERSTRUCTURE DETAILS SHEETS. INCLUDED IN ITEM "SHEAR STUDS".

10. REMOVE EXISTING CURB FOR UNDERDECK LIGHTING. INCLUDED IN ITEM "REMOVE CURB SYSTEM".

11. INSTALL NEW CURB SYSTEM FOR UNDERDECK LIGHTING. INCLUDED IN ITEM "CURB SYSTEM TYPE 1".

12. REMOVE EXISTING LATERAL BRACES. INCLUDED IN ITEM "RESTRUCTURE LATERAL BRACING".

13. REMOVE EXISTING 1/4" TUBE WELD CRACK IN WEB OF BEAM C WHERE IT CONNECTS TO THE EAST SIDE OF THE 2-PIECE CAP. THE MACHINED AREA DENOTES PORTIONS OF EXISTING SUPERSTRUCTURE REMOVAL.
RECONSTRUCT LATERAL BRACING PROCEDURE:
1. POSITION PROPOSED LAYHERS AS SHOWN.
2. MARK UP HOLES ON LAYHERS USING EXISTING HOLES FROM THE CONNECTION PLATE SEEN IN DETAIL 2. ENSURE ALL HOLES FIT AND MOUNT REQUIRED 1\(\frac{1}{2}\)" MIN EDGE DISTANCE ON LAYHERS. IF THEY DO, DRILL HOLES TO MATCH WITH EXISTING HOLES IN CONNECTION PLATE.
3. IF EXISTING HOLES IN CONNECTION PLATE DO NOT FIT IN LAYHERS, AND MINIUM EDGE DISTANCE REQUIRED, ADJUST BRACING ELEMENT LAYHERS BY ROTATING IT ABOUT #8 3 UNTIL ALL EIGHT HOLES FIT AND MEET MIN EDGE DISTANCE.
4. FIELD DRILL ALL HOLES IN DETAIL 2 USING EXISTING CONNECTION PLATE HOLES AS TEMPLATE.
5. FIELD DRILL ALL HOLES IN LAYHERS AND NEW CONNECTION PLATE IN DETAIL 3.
CRACK REPAIR PROCEDURE

1. CARBIDE-TIPPED OR HIGH-SPEED ANNULAR CUTTER TO BE USED TO DRILL PROPOSED HOLE.
2. FLAME-CUTTING HOLE IS NOT PERMITTED.
3. PERFORM MAGNETIC PARTICLE TESTING TO DETECT EXTENT OF CRACK PROPAGATION.
4. IF CRACK IS FOUND TO HAVE PROPAGATED INTO THE GIRDEN WEB, DRILL A HOLE SUCH THAT THE TIP OF THE CRACK LIES AT THE EDGE OF THE CORED HOLE AND ON A HORIZONTAL DIAMETER OF THE CIRCULAR HOLE.
5. IF CRACK HAS NOT PROPAGATED INTO THE GIRDEN WEB, IDENTIFY TIP OF THE CRACK ON THE WEB AND MARK THE CENTER OF THE HOLE TO BE LOCATED AT 1/8 INCH FROM CRACK ALONG A HORIZONTAL DIAMETER OF HOLE THAT STARTS AT TIP OF CRACK AS SHOWN IN DETAIL 7. DISTANCE FROM EDGE OF HOLE TO END OF CRACK SHOULD BE 1/4 INCH.
6. COMPLETED HOLE EDGES SHOULD BE ANSI ROUGHNESS 500 OR LESS.
7. PRIME AND PAINT ALL BARE SURFACES.
8. FILL HOLE WITH A TENSIONED BOLT.

DETAILS:
1. INCLUDED IN "ARREST WELD CRACK".
2. INCLUDED IN "RECONSTRUCT LATERAL BRACING" AND "SUPPLEMENTAL STEEL DIAPHRAGMS".

NOTES:
1. SEE ADDITIONAL NOTES ON SHEET 10.
2. FOR LOCATION OF DETAILS 4, 5, & 7, SEE SHEET 10.
3. FOR LOCATION OF DETAIL 8, SEE SHEET 12.
4. BRACING SHOWN IN DETAILS 4 AND 5 ARE ONLY FOR DIAPHRAGMS 20 AND 25.
NOTES:

1. SEE ADDITIONAL NOTES ON SHEET 10.
2. CONTRACTOR TO DETERMINE THE BEVEL SHOW PLATE THICKNESS BASED ON THE SURVEY DATA AFTER NEW DECK IS Poured, LEAVE 1/4" GAP TO THE BOTTOM OF EXISTING CAP BEAM.
3. FOR LOCATION OF SECTION K-K, SEE SHEET 12.
4. ALL NEW STEEL SHOWN ON THIS SHEET IS INCLUDED IN "STEEL CORBEL BRACKET". STEEL SHOWN REPRESENTS 2 BRACKETS.
DECK PLAN TOP REINFORCEMENT

NOTES:
SUPERSTRUCTURE DIMENSIONS ARE BASED ON THE EXPANSION JOINT DIMENSIONS AT 40 FT.
FOR END BLOCK REINFORCEMENT, SEE "PARTIAL LONGITUDINAL SECTION SHOWING RECONSTRUCTION" DETAIL ON SHEET 19.
PARTIAL LONGITUDINAL SECTION SHOWING RECONSTRUCTION

NOTES

1. HOLD CONSTANT THE DIMENSION INDICATED BETWEEN EXISTING FRONT FACE 3' BACKWALL AND END OF NEW APPROACH PANEL.

2. COORDINATE THE CONSTRUCTION OF EXPANSION JOINT BETWEEN THE DECK AND APPROACH PANEL.

3. S521E AND S622E ANCHORAGE BARS PLUS DRILLING AND INSTALLING INCLUDED IN PAYMENT FOR "ANCHOR TYPE REINF BARS (TYPE L)".

4. S521E, S622E, AND S623E AT 1'-0" MAX. SPACING, STAGED S521E AND S623E. SEE SHEET NO. 9 FOR ANCHORAGE DETAIL.

5. NOT INCLUDED IN WEIGHT OF REINFORCEMENT, INCLUDED IN PAYMENT FOR "ANCHOR TYPE REINF BARS (TYPE L)".
GENERAL NOTES

REMOVE ALL EXISTING LIGHTING CONDUIT AND RISER JUNCTION BOXES, UNDERDECK LIGHTS AND THEIR CORRESPONDING HANGER ASSEMBLY MOUNTINGS AND SUPPORTS FROM UNDER EXISTING CONCRETE SLAB UP TO AND INCLUDING THE JUNCTION BOX IN FRONT OF PIER CAP L. INCLUDED IN ITEM "REMOVE CONDUIT SYSTEM".

INSTALL NEW JUNCTION BOXES, LIGHTING CONDUIT AND THEIR CORRESPONDING HANGER ASSEMBLIES AND SUPPORTS AS INDICATED ON THIS SHEET AND PER SPEC. 25653, INCLUDED IN ITEM "CONDUIT SYSTEM TYPE 1", FOR WIRING AND UNDERDECK LIGHTS SEE LIGHTING PLAN.

LIGHTING CONDUIT SHALL BE PVC COATED, SLEEVED GALVANIZED STEEL CONDUIT PVC-REC, COMPLIANT WITH SPECS. 25653 AND 25654.

ROD, EYE BOLTS AND PIPE CLAMPS SHALL COMPLY WITH SPEC. 3531, TYPE E.

TURBINE BOLTS AND EYE BOLTS SHALL COMPLY WITH A.S.T.M. A295 CLASS A MINIMUM REQUIREMENTS.

FLAT BARS AND ANCHORAGE SHALL COMPLY WITH SPEC. 3536.

CONCRETE INSERTS SHALL BE APPROVED TYPE MAL EALABLE IRON MATERIAL AS PER SPEC. 3524, GRADE 93018.6.4 AT AFTER GALVANIZING.

GALVANIZED BOLTS, NUTS, WASHERS, TURBINE BOLTS, EYE BOLTS, AND INSERTS AS PER SPEC. 3592. GALVANIZE OTHER MATERIAL AS PER SPEC. 3524 AFTER FABRICATION.

JUNCTION BOXES SHALL COMPLY WITH SPEC. 3538.

CONTRACTOR IS RESPONSIBLE FOR PREPARING CONDUIT SYSTEM ERECTION DRAWINGS, INCLUDING ALL DECK INSERTS, HANGER ASSEMBLY DETAILS, FITTINGS, SLEEVES, ETC., SEE SPECIAL PROVISIONS.

1. SPACE INSERTS AT 10'-0" MAXIMUM CENTERS.

2. MOUNTING PLATE MAY BE SHIFTED UP TO 1'-0" UP FROM JUNCTION BOX TO AVOID CONFLICT WITH INPLACE LATERAL BRACING.
ELEVATION
THE DASHED NUMBERS SHOWN ABOVE ARE FOR ILLUSTRATION.
DATA TO BE SHOWN ON NAMEPLATE IS AS FOLLOWS:
BRIDGE  69579
YEAR  1969  YEAR  2006

SECTION A-A

NOTES:
NO SHOP DRAWING REQUIRED.
MATERIAL SHALL COMPLY WITH SPEC. 3327.
LETTERS AND NUMBERS SHALL CONFORM TO THOSE SHOWN.
DRAFT ON LETTERS AND NUMBERS SHALL NOT BE MORE THAN 3" IN 12".
HORIZONTAL SPACING OF LETTERS AND NUMBERS SHALL PRODUCE A
BALANCED LAYOUT IN PROPORTION TO SPACING SHOWN.
BALANCED LAYOUT IN PROPORTION TO SPACING SHOWN.
TOP SURFACE OF LETTERS, NUMBERS AND FRAMES SHALL BE GILFORMED.
SHAPED.
FURNISH 2 STEEL BOLTS 3/8" DIA. X 3" LONG WITH EACH PLATE.
ALL DIMENSIONS FOR 3/8" HIGH LETTERS AND NUMBERS SHALL BE
IN DIRECT PROPORTION TO THOSE SHOWN FOR THE 1" HIGH
LETTERS AND NUMBERS.

APPROVED: AUGUST 24, 2006
STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION
BRIDGE NAMEPLATE
FOR BRIDGE RECONSTRUCTION
B830

CERTIFIED BY:
JAMES L. MARTIN  III
LTD. NO. 53305

PRI OR PARAPET
GLIFORM ALTERNATE

APPROVED: NOVEMBER 20, 2002
STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION
BRIDGE RECONSTRUCTION
B102

STANDARD DETAILS
SHEET NO. 25 OF 28 SHEETS
WEARING COURSE

LOW SLUMP X

OTHER:

TYPE OR MANUFACTURER

EXPANSION JOINTS

JOINT MANUFACTURER

MANUFACTURER'S IDENTIFICATION: NPI'S NO. AND/OR LETTER DESIGNATION FOR JOINT USED.

GLAND MANUFACTURER

NAME AND ADDRESS (CITY, STATE)

SIZE OF GLAND

MANUFACTURER'S IDENTIFICATION: NPI'S NO. AND/OR LETTER DESIGNATION FOR GLAND USED

ELASTOMERIC BEARING PADS

PAD MANUFACTURER

NAME AND ADDRESS (CITY, STATE)

SPECIAL SURFACE FINISH

PRODUCT NAME:

COLOR & TEXTURE:

FINISHING ROADWAY FACES OF BARRIER OR PARAPET

PRODUCT NAME:

COLOR & TEXTURE:

ANTI-GRAFFITI COATING

MANUFACTURER

NAME AND ADDRESS (CITY, STATE)

PRODUCT NAME:

LOCATION:

PAINT SYSTEM

WOOD SPECIFICATION NUMBER:

24TH OR 24PB OR OTHER

MANUFACTURER:

NAME AND ADDRESS (CITY, STATE)

PRIME COAT:

WOOD MATERIAL SPECIFICATION NUMBER:

INTERMEDIATE COAT:

WOOD MATERIAL SPECIFICATION NUMBER:

FINISH COAT:

WOOD MATERIAL SPECIFICATION NUMBER

COLOR:

PLAN QUALITY

RATE 1 (AVERAGE), 2 (INFERIOR), OR 3 (POOR). PLEASE COMMENT BELOW.

DIMENSIONING AND DETAILING ADEQUATELY DESCRIBED REQUIRED CONSTRUCTION.

BAR LETTERS AND QUANTITIES WERE COMPLETE AND FREE OF ERRORS.

SCALE OF DRAWINGS AND GRAPHIC LEGIBILITY OF LINES AND TEXT WAS GOOD.

IS SPECIAL PROVISIONS ADEQUATELY DESCRIBED SPECIAL WORK AND PAYMENT?

COMMENTS:

NUMBER OF BRIDGE:

SUPPLEMENTAL AGREEMENTS:

COST $:

LIST SIGNIFICANT ERRORS, OMISSIONS, OR QUANTITIES IN PLAN DETAILS OR PAY QUANTITIES IN THE SPACE PROVIDED AT RIGHT.

NOTIFICATION TO ADD, REMOVE, OR REHAB A STRUCTURE

PLEASE GO TO THE FOLLOWING WEBSITE AND COMPLETE THE FORM WHEN ADDING, REMOVING, OR REHABILITATING A STRUCTURE.

CONTACT THE BRIDGE INVENTORY MANAGEMENT UNIT AT 513-366-4557 IF YOU HAVE QUESTIONS:

- WHEN ADDING A NEW STRUCTURE - (SEND WHEN THE BRIDGE IS OPEN TO TRAFFIC)

http://www.dot.state.oh.us/bridge/new-structure.html

- WHEN REMOVING A STRUCTURE - (SEND WHEN THE BRIDGE IS NO LONGER IN SERVICE)

http://www.dot.state.oh.us/bridge/pxe/structure拆除.html

- WHEN REHABILITATING A STRUCTURE - (SEND WHEN THE RENOVATION IS COMPLETE)

http://www.dot.state.oh.us/bridge/pxe/structure拆除.html

CHANGE OF VERTICAL CLEARANCE

PLEASE GO TO THE FOLLOWING WEBSITE WHEN CHANGING THE VERTICAL CLEARANCE OF EXISTING BRIDGE STRUCTURE.

CONTACT THE BRIDGE INVENTORY MANAGEMENT UNIT AT 513-366-4557 IF YOU HAVE QUESTIONS:

http://www.dot.state.oh.us/bridge/pdf/clearanceform.pdf

THE AS-BUILT INFORMATION WAS ADDED TO THE PLAN BY:

INSPECTOR'S SIGNATURE:

DATE:

CHECKED BY:

PROJECT ENGINEER/SUPVISOR SIGNATURE:

DATE:

WHEN BRIDGE IS OPEN TO TRAFFIC, COMPLETE THIS AS-BUILT BRIDGE DATA SHEET AND SUBMIT TO THE BRIDGE OFFICE VIA EMAIL AT BRIDGEINFORMATION@ohio.gov

FIG. 5-397.900

AS-BUILT DETAIL

AS-NEEDED

AS-BUILT BRIDGE DATA

THIS FORM IS AVAILABLE IN AN ELECTRONIC FORMAT AT:

http://www.dot.state.oh.us/bridge/pdf/as-built-bridge-data.html

TITLE:

AS-BUILT BRIDGE DATA

SHEET NO. 27 OF 27 SHEETS

REVISED:

APPROVED:

BRIDGE NO.

65839