ADDENDUM NO. 1

1-21-2024

ISSUED BY:

Howe Company LLC

804 E. Patton Street

Macon, MO 63552

DATE: FEBRUARY 21, 2024

FOR: SHELBY COUNTY BRIDGE 11200041

BRO-R102(24)

The attached revisions hereby supersede any and all data with which they may conflict as indicated on the Drawings, Specifications and related documents issued in the original set. Each trade is responsible for changes in its work caused by changes in the work of other trades. This addendum is a part of and shall be attached to the original set of plans and specifications for the work.

THIS ADDENDUM SHALL BECOME A PART OF THE SPECIFICATIONS NOTED ABOVE. RECEIPT OF THIS ADDENDUM SHOULD BE ACKNOWLEDGED ON THE BID FORM.

The piling shall be HP12x53, galvanized full length.

New Sheet 2. An updated sheet 2 (revised 2-21-2024) is issued with this addendum to replace the existing sheet 2 and provide consistency throughout the plans.

There is no change in bid opening date or time.

FOUNDATIO	N DATA TABLE				
BENT NO.		1	2	3	4
NUMBER OF PILING	EACH	4	6	6	4
APPROXIMATE LENGTH	FT.	39	39	39	39
DESIGN BEARING	TONS	47	64	64	47
MINIMUM TIP ELEVATION	FT.	602.71	677.00	677.00	602.71
ESTIMATED TIP ELEVATION	FT.	575.21	575.21	575.21	575.21
CUT OFF ELEVATION	FT.	614.21	614.21	614.21	614.2
MINIMUM HAMMER ENERGY	FT. LBS.	8,000	14,000	14,000	8,000

FT.

SQ. MI.

YEARS

CFS.

FT.

FT.

CFS.

614.84

332

100

22,700

613.67

615

22,700

613.67

ACRE

L.S.

C.Y.

C.Y.

L.F.

EACH

EACH

C.Y

C.Y

S.F

L.F.

L.S.

S.Y.

ACRE

L.S.

L.F.

L.S.

L.S.

C.Y.

C.Y.

L.F.

EACH

S.Y

EACH

EACH

EACH

LBS

L.F

EACH

UNITS EST. QTY

EACH

UNITS EST. QTY

1.83

484

4,376

1,636

817

817

45

50

1,369

1.10

854

123

117

780

20

276

40.096

316.66

3

3

18

50

HYDROLOGIC DATA

WORK TO BE PERFORMED BY CONTRACTOR

DESCRIPTION - ROADWAY ITEMS

MGS GUARDRAIL SYSTEM (6'-3" POST SPACING)

100 YEAR HIGH WATER ELEVATION AT THE STRUCTURE FT.

4" THICK LAYER ROADWAY AGGREGATE

GUARDRAIL TRANSITION SECTION

FURNISHING TYPE 2 ROCK BLANKET

MODOT PERM. EROSION CONTROL FABRIC

CONTRACTOR SURVEYING & STAKING

BRIDGE ITEMS

CLASS B-1 SUBSTRUCTURE CONCRETE

CLASS B-2 SUPERSTRUCTURE CONCRETE

PRESTRESSED CONCRETE DECK PANELS

CONCRETE TYPE III I-GIRDERS (SPAN 1-2

CONCRETE TYPE III I-GIRDERS (SPAN 2-3

CONCRETE TYPE III I-GIRDERS (SPAN 3-4)

PLAIN NEOPRENE BEARING PADS (1/2")

EXCAVATION FOR STRUCTURE

REMOVAL OF BRIDGE

HP12X53 (GALVANIZED)

REINFORCING STEEL

TYPE SL-1 RAILING

CRASHWORTHY END TERMINAL

PLACING TYPE 2 ROCK BLANKET

EXISTING BRIDGE DECK ELEV

DESIGN HIGH WATER AT THE STRUCTURE

CLEARING AND GRUBBING

EMBANKMENT IN PLACE

MOVABLE BARRICADES

CONSTRUCTION SIGNS

SIGN POSTS

SEEDING

SILT FENCE

PILE POINT

MOBILIZATION

REMOVAL OF IMPROVEMENTS

UNCLASSIFIED EXCAVATION

LOW ELEVATION OF SUPERSTRUCTURE

DRAINAGE AREA

DESIGN FREQUENCY

DESIGN DISCHARGE

100 YEAR DISCHARGE

ITEM

201

202

203

203

310

606

606

606/JSP

611.30

611.30

616

616

616

618

624

627

806

206

216

501

501

702

705

705

705

705

706

713

716

702/JSP

805/JSP

UTILITY CONTACT INFORMATION:

THERE ARE NO KNOWN UTILITIES WITHIN THE PROJECT

GENERAL NOTE
MINIMUM CLI
USE WRITTE
WITH ENGIN

SCALED DIMENSIONS UNLESS A SCALE IS PROVIDED.

PROJECT NOTES

THIS PROJECT HAS BEEN GRANTED VARIOUS ENVIRONMENTAL PERMITS AND CLEARANCES. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL PERMIT

THE CONTRACTOR SHALL REMOVE THE EXISTING WOODEN BRIDGE DECK WITH CARE AND LOAD THE SALVAGED WOODEN DECKING ONTO A COUNTY FURNISHED TRAILER. THE REMAINDER OF THE BRIDGE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR

THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE PIERS UNTIL THE BRIDGE DECK IS IN PLACE.

MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION - 2023 SUPPLEMENTAL SPECIFICATIONS SHALL PREVAIL OVER STANDARD SPECIFICATIONS WHEN IN CONFLICT. SUPPLEMENTAL SPECIFICATIONS CAN BE FOUND IN THE PROJECT

SUPPLEMENTAL SPECIFICATIONS WHEN IN CONFLICT. JSP's CAN BE FOUND IN THE PROJECT MANUAL.

H20, 3S2, HS20-44

SEISMIC PERFORMANCE CATEGORY A. SEISMIC ACCELERATION COEFFICIENT 0.075

25 PSF FUTURE WEARING SURFACE

SUPERSTRUCTURE - SIMPLY SUPPORTED, NON-COMPOSITE FOR DEAD LOAD.

GENERAL NOTES

EARANCE TO REINFORCING STEEL SHALL BE 2" UNLESS SHOWN

EN DIMENSIONS WHEN PRESENT. IF NO DIMENSIONS ARE GIVEN CONSULT IEER FOR CLARIFICATION BEFORE PROCEEDING WITH WORK. DO NOT USE

DIGITAL CAD FILES WILL NOT BE PROVIDED TO THE CONTRACTOR FOR SURVEYING AND

PROJECT SPECIFICATIONS

JOB SPECIAL PROVISIONS (JSP) SHALL PREVAIL OVER STANDARD SPECIFICATIONS AND

DESIGN CODE

AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 17TH ED. - 2002

DESIGN LOADING

EARTH 120 PCF, EQUIVALENT FLUID PRESSURE 30 PCF

CONTINUOUS, COMPOSITE FOR LIVE LOAD AND SUPERIMPOSED DEAD LOADS.

MATERIAL NOTES

BRIDGE SUBSTRUCTURE CONCRETE: MODOT CLASS B-1

4000 PSI MINIMUM

MAX. SLUMP= 4" (6" WITH WATER REDUCER)

AIR CONTENT= 5% MINIMUM

BRIDGE SUPERSTRUCTURE CONCRETE: MODOT CLASS B-2 or MODOT CLASS MB-2

fc= 4000 PSI MINIMUM

MAX. SLUMP= 3" CLASS B-2, 6" CLASS B-2 (WITH WATER REDUCER), 6"

CLASS MB-2

AIR CONTENT= 5% MINIMUM

REINFORCING STEEL:

fy=60,000 PSI (GRADE 60)

STEEL PILING:

H-PILING, ASTM A709 (GRADE 50) FY=50,000 PSI (GALVANIZED) PER AASHTO M111/ASTM A123

BOLTS (NON-ANCHOR):

ASTM A325. BOLTS, NUTS, AND WASHERS SHALL BE HOT DIP GALVANIZED ACCORDING TO AASHTO M232/ASTM A153 OR MECHANICALLY GALVANIZED PER ASTM B695, CLASS 55.

ANCHOR BOLTS (CAST-IN-PLACE):

ASTM A307. ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE HOT DIP GALVANIZED ACCORDING TO AASHTO M232/ASTM A153 OR MECHANICALLY GALVANIZED PER ASTM B695, CLASS 55.

BEARING PADS:

BEARINGS SHALL BE PLAIN, 60 DUROMETER, NEOPRENE.

PILING NOTES:

MINIMUM ENERGY REQUIREMENT OF HAMMER IS BASED ON PLAN LENGTH AND DESIGN BEARING VALUES OF THE PILING.

H-PILING SHALL CONSIST OF HP12X53 ROLLED STEEL SECTIONS

THE CONTRACTOR SHALL INSTALL CAST STEEL DRIVING POINTS ON ALL PILES. THE CAST STEEL POINTS SHALL BE ASTM A27 65-35 OR BETTER. COSTS OF PROVIDING AND INSTALLING PILE TIP REINFORCEMENT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM, "PILE POINTS." PILE POINTS NEED NOT BE

NO PAYMENT WILL BE MADE FOR SPLICES WITHIN THE PLANNED LENGTH OF THE PILING. NO PAYMENT WILL BE MADE FOR PILING DAMAGED DUE TO DRIVING OPERATIONS.

SPLICE LOCATIONS, IF NECESSARY, SHALL BE DETERMINED BY THE CONTRACTOR. SPLICES WITHIN THE GALVANIZED PORTION SHALL BE FIELD GALVANIZED. THE FINAL INSTALLED QUANTITY OF PILING WILL BE MEASURED FROM TIP TO CUTOFF.

LEAD PAINT:

PAINT ON THE EXISTING STRUCTURE TO BE REMOVED BY THE CONTRACTOR HAS TESTED POSITIVE FOR LEAD CONCENTRATIONS HIGH ENOUGH TO BE CONSIDERED HAZARDOUS.

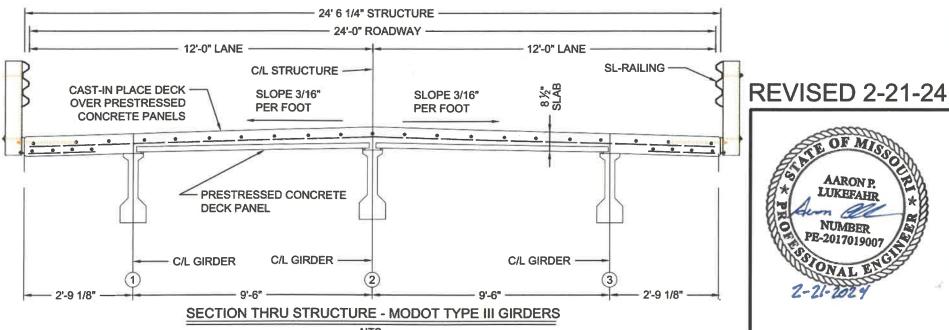
OF MI

AARON P.

LUKEFAHR

NUMBER

PE-2017019007



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AUGUST 20 DESIGNED BY: A. LUKEFAH RAWN BY:

REVIEWED BY: A. LUKEFAH APPROVED BY: A. LUKEFAH JOB NO. 22H3475

SHEET 2 OF 32

THESE ITEMS REQUIRE CERTIFICATION/SHOP DRAWINGS/SUBMITAL