

ADDENDUM  
PAGE 1 OF 1

OWNER:	Michigan State University 1147 Chestnut Road East Lansing, MI 48824
ENGINEER:	Fishbeck 5913 Executive Drive, Suite 100 Lansing, MI 48911
DRAWING REVISION NO.:	2
ISSUED HEREWITH:	
SPECIFICATION SECTIONS:	None
SHEETS:	2, 3
SKETCHES	None
BIDS DUE:	Not changed
This Addendum is issued to all Bid Set Holders, is a part of the Contract Documents, and modifies the previously issued Bidding Documents.	

ITEM NO. 1:

Sheet: 2 GPSTR 001 (reissued)

A. Added turbidity curtain to plan view and to miscellaneous quantities. Contractor to provide turbidity curtain.

ITEM NO. 2:

Sheet: 3 REM 001 (reissued)

A. Note has been revised for drainage/irrigation pipes to remove/replace any conflicts and to contact owner for such work.

ITEM NO. 3:

RFI Question and Response:

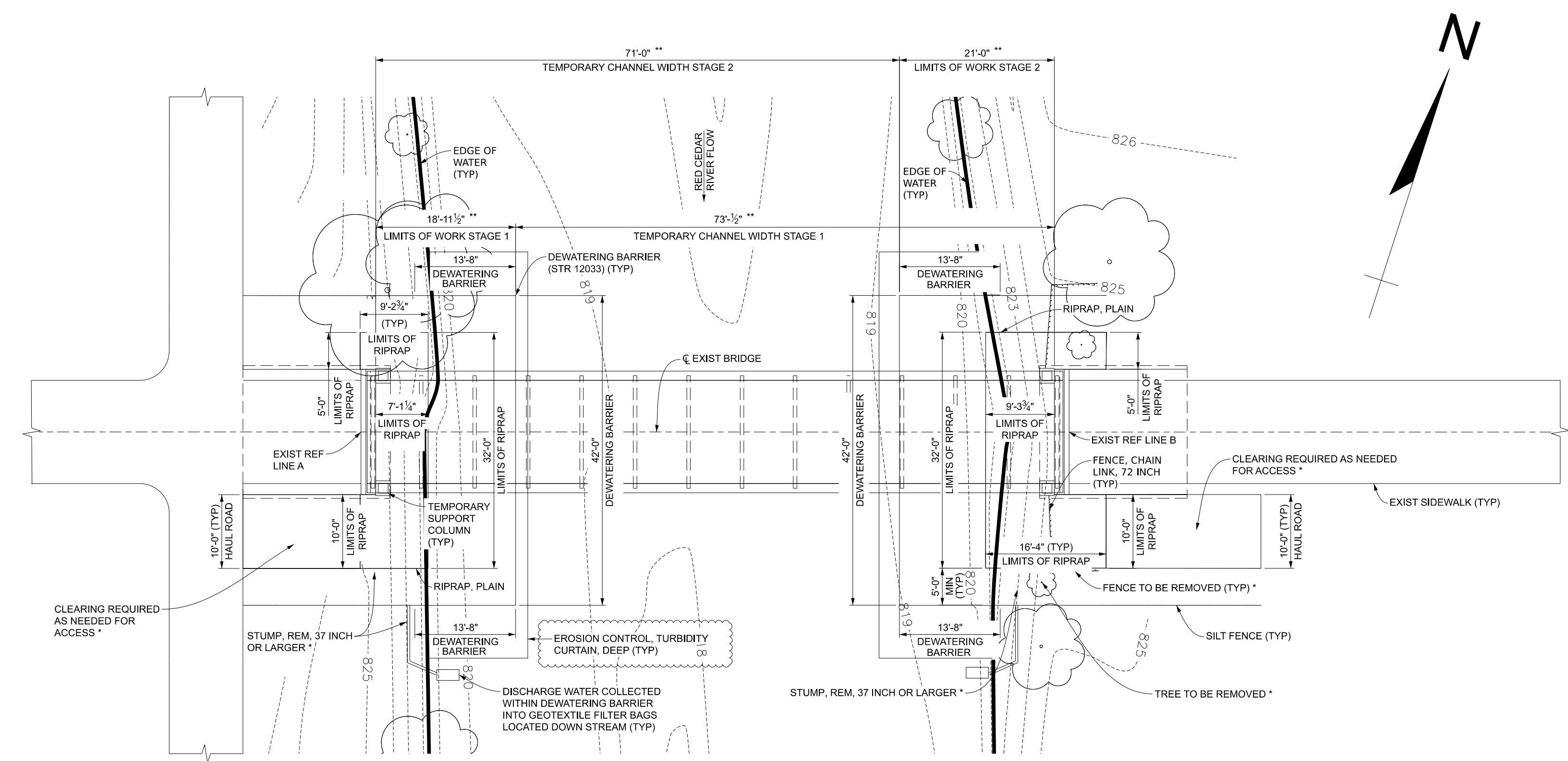
Q: *Are the elastomeric pads supposed to be vulcanized to the bottom of the sole plates or are they loose?*

A. The pads do not need to be vulcanized.

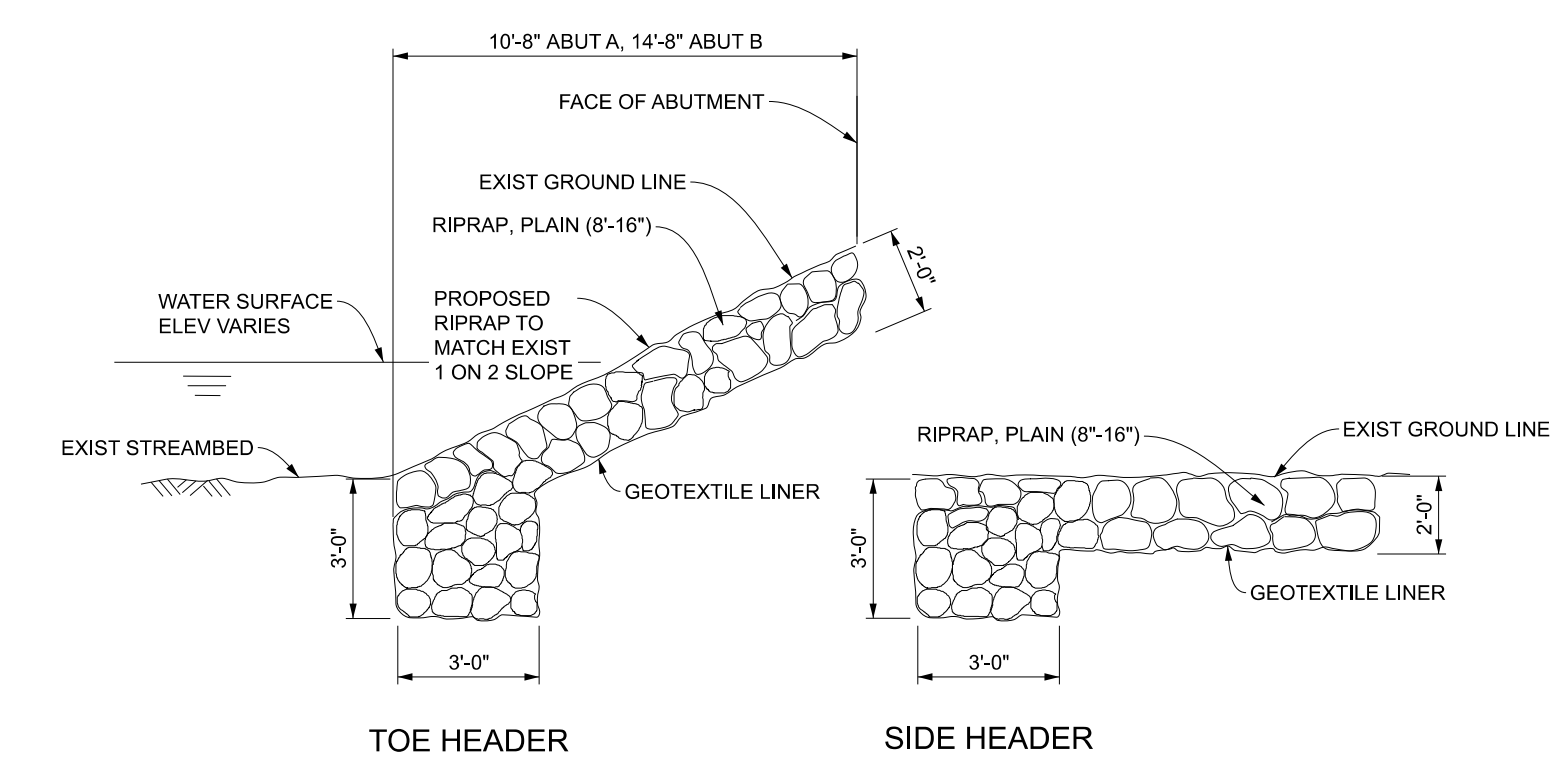
ITEM NO. 4:

The bid date has been rescheduled from Thursday, July 11 at 3 p.m. to **Thursday, July 25 at 3 p.m.**

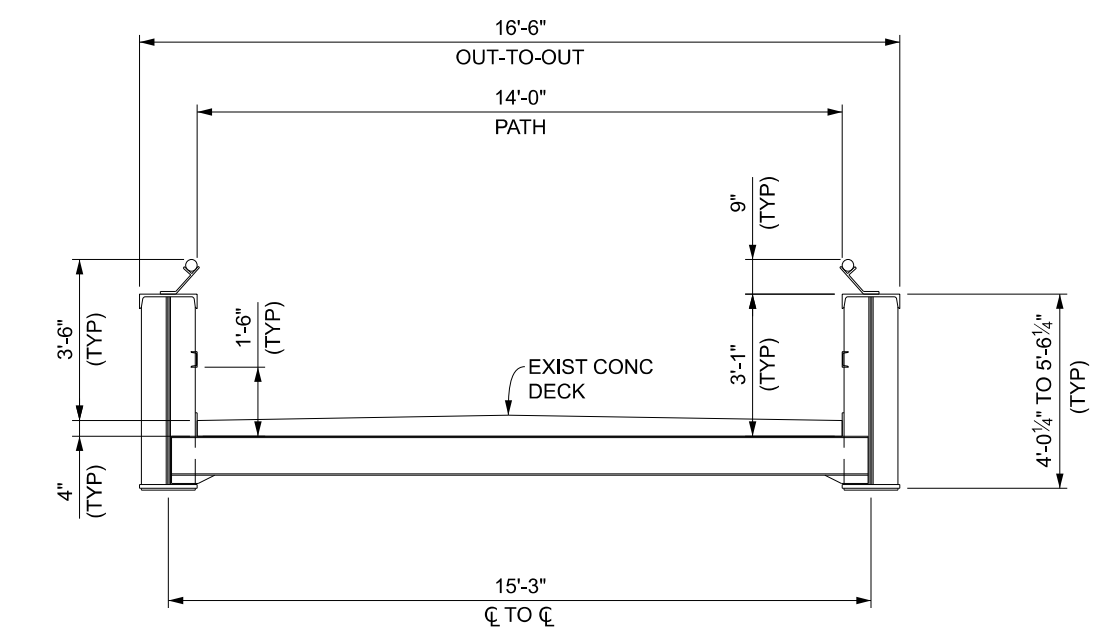
END OF ADDENDUM



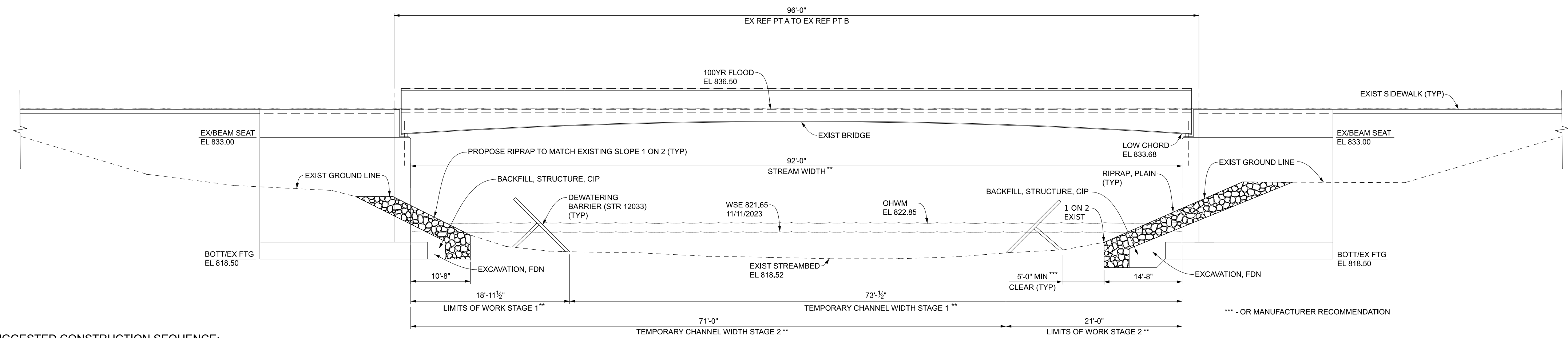
PLAN VIEW  
 1"=16'



RIPRAP HEADER DETAILS  
 SCALE: 1"=5.33' (1"=16' SCALED 3V:3H)



TYPICAL DECK SECTION  
 SCALE: 1"=5.33' (1"=16' SCALED 3V:3H)



ABUTMENT A

ABUTMENT B

\*\*\* NOTE - MAX ALLOWABLE WORKING WIDTH IN THE STREAM IS NOT TO EXCEED 30FT TOTAL, IF MORE THAN 1/3 OF THE STREAMWIDTH WILL BE EXCEEDED BY THE TOTAL WORKING WIDTH THAN THE WORK IS TO BE DONE IN TWO STAGES AS SHOWN ON THE PLANS.

ELEVATION VIEW  
 (LOOKING NORTH PERPENDICULAR TO BRIDGE C)  
 SCALE: 1"=10.67' (1"=16' SCALED 1.5V:1.5H)

**SOIL EROSION AND SEDIMENTATION CONTROL QUANTITIES**

100 Ft	Erosion Control, Silt Fence
2 Ea	Erosion Control, Filter Bag
170 Ft	Erosion Control, Turbidity Curtain, Deep

**MISCELLANEOUS QUANTITIES**

320	Cyd	Excavation, Fdn
70	Cyd	Backfill, Structure, CIP
1	LSUM	Dewatering Barrier (STR 12033)
1	LSUM	Temp Haul Road
1	LSUM	Minor Traf Devices *
0.1	Acre	Clearing *
30	Ft	Fence, Ram *
60	Syd	Riprap, Plain
3	Ea	Stump, Rem. 37 inch or Larger *
30	Ft	Fence, Chain Link, 72 Inch

\* WORK TO BE COMPLETED BY OWNERS

**SUGGESTED CONSTRUCTION SEQUENCE:**

- CLEARING & TREE REMOVAL REQUIRED TO PLACE HAUL PATH AND MOBILIZE EQUIPMENT AROUND ABUTMENT A.
- INSTALL DEWATERING BARRIER AT ABUTMENT A.
- INSTALL TEMPORARY SUPPORTS AT ABUTMENT A.
- PERFORM REHABILITATION WORK ACTIVITIES AT ABUTMENT A.
- REMOVE TEMPORARY SUPPORTS AT ABUTMENT A.
- PLACE RIPRAP FOR SCOUR PROTECTION MATCHING EXISTING 1 ON 2 SLOPES AND RESTORE STREAMBED TO EXIST CONDITIONS AT ABUTMENT A.
- REMOVE DEWATERING BARRIER AT ABUTMENT A.
- REPEAT STEPS 1 - 7 FOR ABUTMENT B.

**NOTES:**

THE WORK COVERED BY THESE PLANS INCLUDES SUBSTRUCTURE PATCHING, BEARING REPLACEMENT, STEEL REPAIRS, AND SCOUR PROTECTION RIPRAP TO THE LIMITS SHOWN, ALL OTHER WORK IS TO BE DONE BY OTHERS AND IS NOT A PART OF THIS CONTRACT.

DETOUR PEDESTRIAN TRAFFIC OVER RAMP NO. 4 BRIDGE LOCATED SOUTH OF THE PROJECT, TO BE COMPLETED BY OWNERS

PLAN ELEVATIONS REFER TO NAVGD29 DATUM.

WATER LEVEL IS SUBJECT TO CHANGE. MAKE A DETERMINATION OF WATER LEVELS THAT MAY EXIST DURING CONSTRUCTION.

IMMEDIATELY AFTER THE CONSTRUCTION OF AN ABUTMENT IS COMPLETED, PLACE SLOPE PROTECTION AND SEEDING OR SODDING ON THE ADJACENT EMBANKMENT SLOPES.

THE DESIGN OF THIS STRUCTURE IS BASED ON CURRENT AASHTO LRFD BRIDGE DESIGN SPECIFICATION PEDESTRIAN LOADING OF (100) PSF AND A MAINTENANCE VEHICLE H10 LOADING, NOT ACTING CONCURRENTLY. LIVELOAD DEFLECTION DOES NOT EXCEED 1/100 OF SPAN LENGTH.

PLACE GEOTEXTILE LINER ON ALL SLOPES PRIOR TO PLACING RIPRAP. PAYMENT OF GEOTEXTILE LINER IS INCLUDED IN PAYMENT FOR RIPRAP.

A COFFERDAM HAS NOT BEEN PROVIDED FOR THIS STRUCTURE. USE OTHER MEANS OF WATER CONTROL AS APPROVED BY THE ENGINEER. DO NOT DISTURB THE STREAMBED. WATER CONTROL, WHETHER IT BE BY COFFERDAM OR OTHER APPROVED MEANS, IS INCLUDED IN THE BID ITEM "DEWATERING BARRIER".

THE RIPRAP QUANTITY IS BASED ON THE LATERAL DIMENSIONS OF THE AREA TO BE PROTECTED, REGARDLESS OF THE NUMBER OF LAYERS REQUIRED. THE ESTIMATED WEIGHT OF RIPRAP IS 100 TONS.

SUBMIT ALTERNATE METHODS OF STREAM DIVERSION TO THE ENGINEER FOR APPROVAL.

IMPLEMENT MEASURE TO PREVENT DEBRIS FROM FALLING FROM THE STRUCTURE. IF DEBRIS FALLS INTO THE WATERWAY, REMOVE IT WITHIN 24 HOURS. SINCE DISTURBANCE OF THE WATERWAY BOTTOM MAY BE AS HARMFUL AS THE DEBRIS ITSELF, THE PREVENTATIVE MEASURES MUST BE EFFECTIVE. REMOVAL OF DEBRIS IS INCLUDED RELATED ITEMS OF WORK.

NOTIFY EACH UTILITY COMPANY A MINIMUM OF THREE FULL WORKING DAYS IN ADVANCE IF WORK IMPACTING THE COMPANY'S CONDUITS OR FACILITIES.

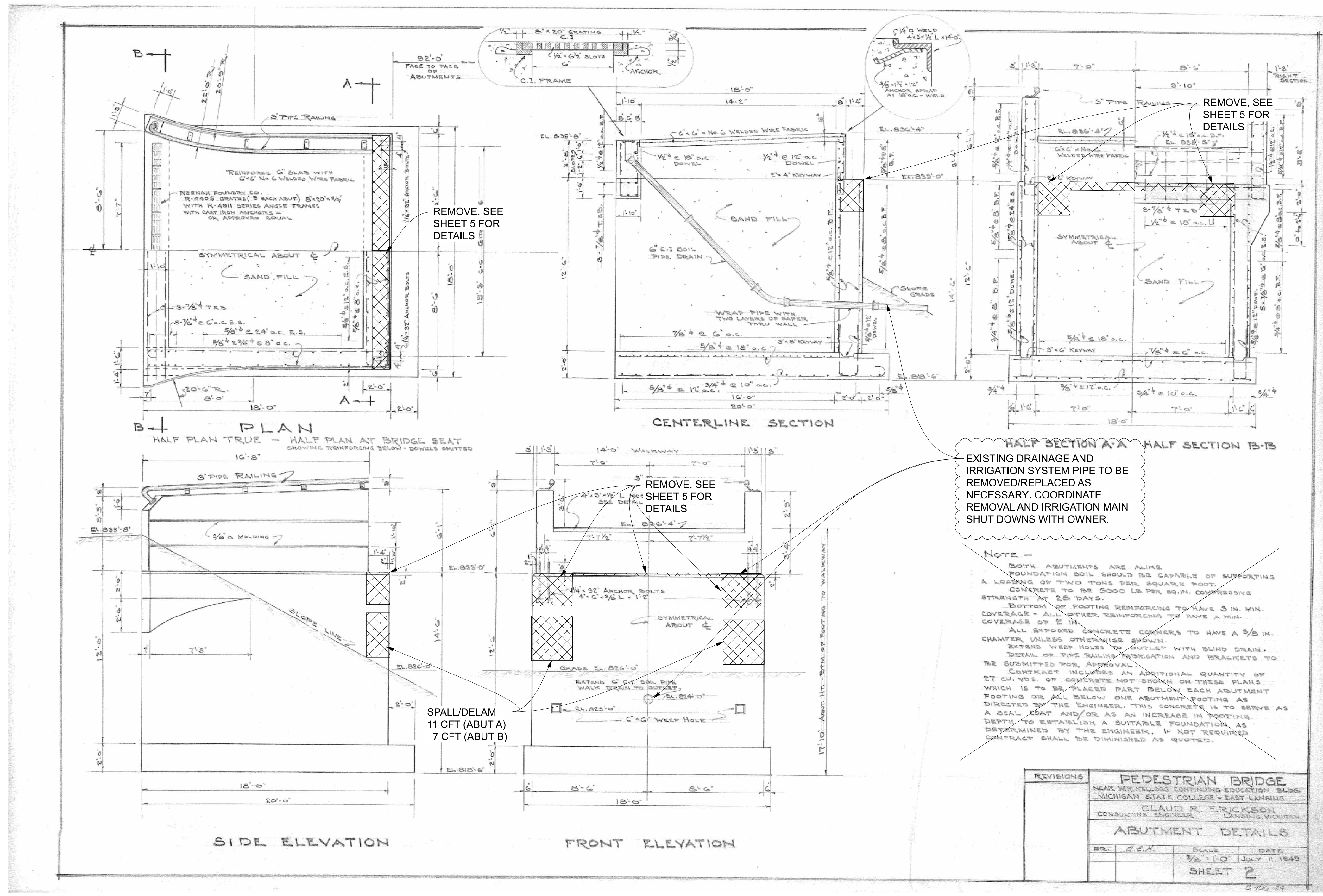
DO NOT WELD ON EXISTING GIRDERS, EXCEPT AS NOTED.

SEE SPECIAL PROVISIONS FOR DEWATERING BARRIER AND TEMP HAUL ROAD.

PLOT\_INFO\_Z:\2023\231735\CAD\SEEN\TBD-HSU\_BRIDGE\_22X34-V1\DXF\343.DWG LAYOUT: MDEBEL DATE: 10/21/2023 TIME: 12:57:12 PM USER: DMW/BJ

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**JOB NO. 231735**

THE ONLY ITEMS OF WORK TO BE DONE FROM THIS SHEET ARE IDENTIFIED BY USING THE LEGEND BELOW, LABELED WITH THIS PROJECT'S JOB NUMBER

□ PROPOSED WORK  
 ▨ DENOTES REMOVAL PORTIONS

**JOB NO. 231735**

GENERAL LOCATIONS FOR DETERIORATED OR DAMAGED CONCRETE ARE SHOWN. FIELD VERIFY ALL DIMENSIONS, LOCATIONS, AND DEPTH OF REMOVAL LOCATIONS PRIOR TO REMOVAL OF CONCRETE. AREAS NOT SHOWN ON THE PLANS THAT NEED REPAIR ARE TO BE PATCHED ACCORDINGLY.

REMOVE SPALLED AND OR DELAMINATED TO SOUND CONCRETE.

AT ABUTMENT SEATS, SAWCUT AND REMOVE PORTIONS OF CONCRETE UNDER BEARINGS TO THE LIMITS SHOWN IN SUBSTRUCTURE REPAIR DETAILS. INCLUDED IN THE BID ITEM "HAND CHIPPING, OTHER THAN DECK".

AVOID DAMAGING THE EXIST REINF DURING SAW CUTTING AND CONCRETE REMOVAL OPERATIONS. BLAST CLEAN, STRAIGHTEN AND EMBED PROJECTING REINFORCEMENT INTO PROPOSED CONCRETE NOT PAID FOR SEPARATELY, BUT INCLUDED IN THE BID ITEM "HAND CHIPPING, OTHER THAN DECK".

EXISTING DRAINAGE AND IRRIGATION SYSTEM PIPE TO BE REMOVED/REPLACED AS NECESSARY. COORDINATE REMOVAL AND IRRIGATION MAIN SHUT DOWNS WITH OWNER.

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**NOTE -**

BOTH ABUTMENTS ARE ALIKE. FOUNDATION SOIL SHOULD BE CAPABLE OF SUPPORTING A LOADING OF TWO TONS PER SQUARE FOOT. CONCRETE TO BE 3000 LB PER SQ. IN. COMPRESSIVE STRENGTH AT 28 DAYS. BOTTOM OF FOOTING REINFORCING TO HAVE A MIN. COVERAGE OF 2 IN. ALL OTHER REINFORCING TO HAVE A MIN. COVERAGE OF 2 IN. ALL EXPOSED CONCRETE CORNERS TO HAVE A 3/8 IN. CHAMFER UNLESS OTHERWISE SHOWN. EXTEND WEIR HOLES TO OUTLET WITH BLIND DRAIN. DETAIL OF PIPE RAILING, PARAPET AND BRACKETS TO BE SUBMITTED FOR APPROVAL. CONTRACT INCLUDES AN ADDITIONAL QUANTITY OF 27 CU. YDS. OF CONCRETE NOT SHOWN ON THESE PLANS WHICH IS TO BE PLACED PART BELOW EACH ABUTMENT FOOTING OR ALL BELOW ONE ABUTMENT FOOTING AS DIRECTED BY THE ENGINEER. THIS CONCRETE IS TO SERVE AS A SEAL COAT AND/OR AS AN INCREASE IN FOOTING DEPTH TO ESTABLISH A SUITABLE FOUNDATION AS DETERMINED BY THE ENGINEER. IF NOT REQUIRED CONTRACT SHALL BE DIMINISHED AS QUOTED.

NO.	DATE	SCALE	DATE
DR.	05/10	3/4" = 1'-0"	JULY 11, 1949
SHEET 2			

PLOT\_INFO: Z:\2023\231735\CAD\REF\FBD-KSU-BRIDGE\_22X34-V.DWG DATE: 10/31/2023 TIME: 12:37:12 PM USER: DMARVEY LAYOUT\_MODEL