



NOTICE OF AUTHORIZATION

Permit Number: WRP028700 v. 1

Date Issued: May 10, 2021

Site Name: 81 - M-14 over Huron River - Temporary supports

Expiration Date: May 10, 2026

The Michigan Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division, P.O. Box 30458, Lansing, Michigan 48909-7958, under provisions of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, specifically:

- Part 31, Floodplain Regulatory Authority of the Water Resources Protection.
- Part 301, Inland Lakes and Streams.
- Part 303, Wetlands Protection.
- Part 315, Dam Safety.
- Part 323, Shorelands Protection and Management.
- Part 325, Great Lakes Submerged Lands.
- Part 353, Sand Dunes Protection and Management.

Authorized Activities: Construct temporary supports, totaling 85 cubic yards of material, within the 100-year floodplain at the M-14 crossing of the Huron River. All activities shall be completed in accordance with approved plans, and conditions of this permit.

To be conducted at property located in: Washtenaw County, Waterbody: Huron River
Section 17, Town 02S, Range 06E, City of Ann Arbor, Ann Arbor Township

Permittee:
Michigan Department of Transportation
4701 W. Michigan Avenue
Jackson, Michigan 49201

John Skubinna
Transportation Review Unit
Water Resources Division
517-256-1469

*This notice must be displayed at the site of work.
Laminating this notice or utilizing sheet protectors is recommended.*
Please refer to the above permit number with any questions or concerns.

EGLE-WRD
WRP028700 v1.0
Approved
Issued On:05/10/2021
Expires On:05/10/2026



**MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
WATER RESOURCES DIVISION PERMIT**

Issued To:

**Michigan Department of Transportation
4701 W. Michigan Avenue
Jackson, Michigan 49201**

Permit No: WRP028700 v.1
Submission No.: HP8-BX4C-6K91V
Site Name: 81 - M-14 over Huron River - Temporary supports
Issued: May 10, 2021
Revised:
Expires: May 10, 2026

This permit is being issued by the Michigan Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division, under the provisions of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA); specifically:

- | | |
|---|---|
| <input type="checkbox"/> Part 301, Inland Lakes and Streams | <input type="checkbox"/> Part 323, Shorelands Protection and Management |
| <input type="checkbox"/> Part 303, Wetlands Protection | <input type="checkbox"/> Part 325, Great Lakes Submerged Lands |
| <input type="checkbox"/> Part 315, Dam Safety | <input type="checkbox"/> Part 353, Sand Dunes Protection and Management |
| <input checked="" type="checkbox"/> Part 31, Water Resources Protection (Floodplain Regulatory Authority) | |

Permission is hereby granted, based on permittee assurance of adherence to State of Michigan requirements and permit conditions, to:

Authorized Activities: Construct temporary supports, totaling 85 cubic yards of material, within the 100-year floodplain at the M-14 crossing of the Huron River. All activities shall be completed in accordance with approved plans, and conditions of this permit.

Waterbody Affected: Huron River
Property Location: Washtenaw County, City of Ann Arbor, and Ann Arbor Township
Town/Range/Section 02S06E17
Property Tax No.

Authority granted by this permit is subject to the following limitations:

- A. Initiation of any work on the permitted project confirms the permittee's acceptance and agreement to comply with all terms and conditions of this permit.
- B. The permittee, in exercising the authority granted by this permit, shall not cause unlawful pollution as defined by Part 31 of the NREPA.
- C. This permit shall be kept at the site of the work and available for inspection at all times during the duration of the project or until its date of expiration.
- D. All work shall be completed in accordance with the approved plans and specifications submitted with the application and/or plans and specifications attached to this permit.

**EGLE-WRD
WRP028700 v1.0
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Expires On:05/10/2026**

- E. No attempt shall be made by the permittee to forbid the full and free use by the public of public waters at or adjacent to the structure or work approved.
- F. It is made a requirement of this permit that the permittee give notice to public utilities in accordance with 2013 PA 174 (Act 174) and comply with each of the requirements of Act 174.
- G. This permit does not convey property rights in either real estate or material, nor does it authorize any injury to private property or invasion of public or private rights, nor does it waive the necessity of seeking federal assent, all local permits, or complying with other state statutes.
- H. This permit does not prejudice or limit the right of a riparian owner or other person to institute proceedings in any circuit court of this state when necessary, to protect his rights.
- I. Permittee shall notify EGLE within one week after the completion of the activity authorized by this permit.
- J. This permit shall not be assigned or transferred without the written approval of EGLE.
- K. Failure to comply with conditions of this permit may subject the permittee to revocation of permit and criminal and/or civil action as cited by the specific state act, federal act, and/or rule under which this permit is granted.
- L. All dredged or excavated materials shall be disposed of in an upland site (outside of floodplains, unless exempt under Part 31 of the NREPA, and wetlands).
- M. In issuing this permit, EGLE has relied on the information and data that the permittee has provided in connection with the submitted application for permit. If, subsequent to the issuance of a permit, such information and data prove to be false, incomplete, or inaccurate, EGLE may modify, revoke, or suspend the permit, in whole or in part, in accordance with the new information.
- N. The permittee shall indemnify and hold harmless the State of Michigan and its departments, agencies, officials, employees, agents, and representatives for any and all claims or causes of action arising from acts or omissions of the permittee, or employees, agents, or representative of the permittee, undertaken in connection with this permit. The permittee's obligation to indemnify the State of Michigan applies only if the state: (1) provides the permittee or its designated representative written notice of the claim or cause of action within 30 days after it is received by the state, and (2) consents to the permittee's participation in the proceeding on the claim or cause of action. It does not apply to contested case proceedings under the Administrative Procedures Act, 1969 PA 306, as amended, challenging the permit. This permit shall not be construed as an indemnity by the State of Michigan for the benefit of the permittee or any other person.
- O. Noncompliance with these terms and conditions and/or the initiation of other regulated activities not specifically authorized shall be cause for the modification, suspension, or revocation of this permit, in whole or in part. Further, EGLE may initiate criminal and/or civil proceedings as may be deemed necessary to correct project deficiencies, protect natural resource values, and secure compliance with statutes.
- P. If any change or deviation from the permitted activity becomes necessary, the permittee shall request, in writing, a revision of the permitted activity from EGLE. Such revision request shall include complete documentation supporting the modification and revised plans detailing the proposed modification. Proposed modifications must be approved, in writing, by EGLE prior to being implemented.
- Q. This permit may be transferred to another person upon written approval of EGLE. The permittee must submit a written request to EGLE to transfer the permit to the new owner. The new owner must also submit a written request to EGLE to accept transfer. The new owner must agree, in writing, to accept all conditions of the permit. A single letter signed by both parties that includes all the above information may be provided to EGLE. EGLE will review the request and, if approved, will provide written notification to the new owner.
- R. Prior to initiating permitted construction, the permittee is required to provide a copy of the permit to the contractor(s) for review. The property owner, contractor(s), and any agent involved in exercising the permit are held responsible to ensure that the project is constructed in accordance with all drawings and specifications. The contractor is required to provide a copy of the permit to all subcontractors doing work authorized by the permit.
- S. Construction must be undertaken and completed during the dry period of the wetland. If the area does not dry out, construction shall be done on equipment mats to prevent compaction of the soil.
- T. Authority granted by this permit does not waive permit requirements under Part 91, Soil Erosion and Sedimentation Control, of the NREPA, or the need to acquire applicable permits from the County Enforcing Agent (CEA).

- U. Authority granted by this permit does not waive permit requirements under the authority of Part 305, Natural Rivers, of the NREPA. A Natural Rivers Zoning Permit may be required for construction, land alteration, streambank stabilization, or vegetation removal along or near a natural river.
- V. The permittee is cautioned that grade changes resulting in increased runoff onto adjacent property is subject to civil damage litigation.
- W. Unless specifically stated in this permit, construction pads, haul roads, temporary structures, or other structural appurtenances to be placed in a wetland or on bottomland of the water body are not authorized and shall not be constructed unless authorized by a separate permit or permit revision granted in accordance with the applicable law.
- X. For projects with potential impacts to fish spawning or migration, no work shall occur within fish spawning or migration timelines (i.e., windows) unless otherwise approved in writing by the Michigan Department of Natural Resources, Fisheries Division.
- Y. Work to be done under authority of this permit is further subject to the following special instructions and specifications:
1. Authority granted by this permit does not waive permit or program requirements under Part 91 of the NREPA or the need to acquire applicable permits from the CEA. To locate the Soil Erosion Program Administrator for your county, visit www.mi.gov/eglestormwater and select "Soil Erosion and Sedimentation Control Program" under "Related Links."
 2. The authority to conduct the activity as authorized by this permit is granted solely under the provisions of the governing act as identified above. This permit does not convey, provide, or otherwise imply approval of any other governing act, ordinance, or regulation, nor does it waive the permittee's obligation to acquire any local, county, state, or federal approval or authorization necessary to conduct the activity.
 3. No fill, excess soil, or other material shall be placed in any wetland, floodplain, or surface water area not specifically authorized by this permit, its plans, and specifications.
 4. This permit does not authorize or sanction work that has been completed in violation of applicable federal, state, or local statutes.
 5. The permit placard shall be kept posted at the work site in a prominent location at all times for the duration of the project or until permit expiration.
 6. This permit is being issued for the maximum time allowed and no extensions of this permit will be granted. Initiation of the construction work authorized by this permit indicates the permittee's acceptance of this condition. The permit, when signed by EGLE, will be for a five-year period beginning on the date of issuance. If the project is not completed by the expiration date, a new permit must be sought.
 7. Unless specifically stated under the "Permitted Activity" of this permit, construction pads, haul roads, temporary structures, or other structural appurtenances to be placed in a wetland or on bottomland of the waterbody are not authorized and shall not be constructed unless authorized by a separate permit or permit revision granted in accordance with the applicable law.
 8. No filling, grading, excavating, dredging or use of wetland is authorized by this permit.
 9. This permit does not authorize or sanction work that has been completed in violation of applicable federal, state, or local statutes.
 10. The permittee is responsible for acquiring all necessary easements or rights-of-way before commencing any work authorized by this permit. All construction operations relating to or part of this project shall be confined to the existing right-of-way limits or other acquired easements.

11. Temporary soil erosion and sedimentation control measures shall be installed before or upon commencement of the earth change and shall be maintained daily. Temporary soil erosion and sedimentation control measures shall be maintained until permanent soil erosion and sedimentation control measures are in place and the area is stabilized. Permanent soil erosion and sedimentation control measures for all slopes, channels, ditches, or any disturbed area shall be installed within five (5) calendar days after final grading, or the final earth change has been completed.
12. All raw areas in uplands resulting from the permitted construction activity shall be effectively stabilized with sod and/or seed and mulch (or other technology specified by this permit or project plans) in a sufficient quantity and manner to prevent erosion and any potential siltation to surface waters or wetlands. Temporary stabilization measures shall be installed before or upon commencement of the permitted activity and shall be maintained until permanent measures are in place. Permanent measures shall be in place within five (5) days of achieving final grade.
13. All raw earth within 100 feet of a lake, stream, or wetland that is not brought to final stabilization by the end of the active growing season shall be temporarily stabilized with mulch blankets in accordance with the following dates: September 20th for the Upper Peninsula, October 1st for the Lower Peninsula north of US-10, and October 10th for the Lower Peninsula south of US-10.
14. This permit placard shall be kept posted at the work site, in a prominent location at all times for the duration of the project, or until permit expiration.
15. This permit is being issued for the maximum time allowed and no extensions of this permit will be granted. Initiation of the construction work authorized by this permit indicates the permittee's acceptance of this condition. The permit, when signed by EGLE, will be for a five-year period beginning at the date of issuance. If the project is not completed by the expiration date, a new permit must be sought.
16. All dredge/excavated spoils including organic and inorganic soils, vegetation, and other material removed shall be placed on upland (non-wetland, non-floodplain or non-bottomland), prepared for stabilization, and revegetated and reseeded with native Michigan species appropriate to the site and mulched in such a manner so as to prevent and ensure against erosion of any material into any waterbody, wetland, or floodplain.
17. During removal or repair of the existing structure, every precaution shall be taken to prevent debris from entering any watercourse. Any debris reaching the watercourse during the removal and/or reconstruction of the structure shall be immediately retrieved from the water. All material shall be disposed of in an acceptable manner consistent with local, state, and federal regulations.
18. The use of explosives for removal of the structure over the waterbody, including any abutments or piers, is strictly prohibited.
19. The road fill side slopes shall not be steeper than 1-on-2 (1 vertical to 2 horizontal) except where headwalls of reinforced concrete, mortar masonry, dry masonry, or other acceptable methods are used.
20. Road fill side slopes terminating in the stream and any raw streambanks resulting from the construction, shall be stabilized with temporary measures in accordance with appropriate Best Management Practices based on site conditions, and if necessary, may be riprapped extending above the ordinary high-water mark, before or upon commencement of the permitted activity. Temporary stabilization measures shall be maintained until permanent measures are in place.
21. All other road fill slopes, ditches, and other raw areas draining directly to the stream may be protected with riprap, sod and/or seed and mulch as may be necessary to provide effective erosion protection. The placement of riprap shall be limited to the minimum necessary to ensure proper stabilization of the side slopes and fill in the immediate vicinity of the structure.

22. If the project, or any portion of the project, is stopped and lies incomplete for any length of time (other than that encountered in a normal work week) every precaution shall be taken to protect the incomplete work from erosion, including the placement of temporary gravel bag riprap, temporary seeding and mulching, or other acceptable temporary protection.
23. No work shall be done in the stream during periods of above-normal flows except as necessary to prevent erosion.

Issued By:



John Skubinna
Transportation Review Unit
Water Resources Division
517-256-1469

cc: Ann Arbor Township Clerk
City of Ann Arbor Clerk
Washtenaw County Drain Commissioner
Washtenaw CEA
Mr. Matt Konieczki, EGLE
Ms. Melissa Letosky, EGLE

MICHIGAN DEPARTMENT OF TRANSPORTATION

**ROUTE: M-14 & US-23 BR
CITY OF ANN ARBOR
ANN ARBOR TOWNSHIP
WASHTENAW COUNTY**



WASHTENAW
COUNTY

COUNTY KEY

ROAD	YEAR	TRAFFIC DATA			SPEED DATA		LIMITS
		ADT	DHV	COMM	DESIGN	POSTED	
M-14/US-23BR	2013	59,888	5,989	6.4%	70	65	AT R01 OF 81075
	2043	76,065	7,607	6.4%	70	65	

GENERAL NOTES

THE REHABILITATION DESIGN OF THIS STRUCTURE IS BASED ON THE 17TH EDITION OF AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES HS25 LOADING. LIVE LOAD PLUS IMPACT DEFLECTION DOES NOT EXCEED 1/800 OF SPAN LENGTH AND 1/300 OF CANTILEVER ARM. THE LOAD FACTOR METHOD WAS USED FOR THIS DESIGN. THE ORIGINAL STRUCTURE WAS DESIGNED FOR HS20 LOADING.

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS, OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED HEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE ACCORDING TO THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 2012 EDITION.

THE DESIGN OF THE STRUCTURAL MEMBERS IS BASED ON MATERIAL OF THE FOLLOWING GRADES AND STRESSES:

CONCRETE:	
GRADE S2M	f'c = 3,000 psi
STEEL REINFORCEMENT	f _y = 60,000 psi
STRUCTURAL STEEL:	
AASHTO M270, GRADE 36	F _y = 36,000 psi
AASHTO M270, GRADE 50	F _y = 50,000 psi
AASHTO M270, GRADE 50W	F _y = 50,000 psi
STRUCTURAL STEEL PINS:	
ASTM A276, UNS DESIGNATION S20161 OR S21800	F _y = 50,000 psi

THE BRIDGE PAINT MAY CONTAIN LEAD.

ALL EXPOSED CONCRETE CORNERS SHOWN SQUARE ON THE PLANS SHALL BE BEVELED WITH 1/2" TRIANGULAR MOLDINGS EXCEPT AS OTHERWISE NOTED.

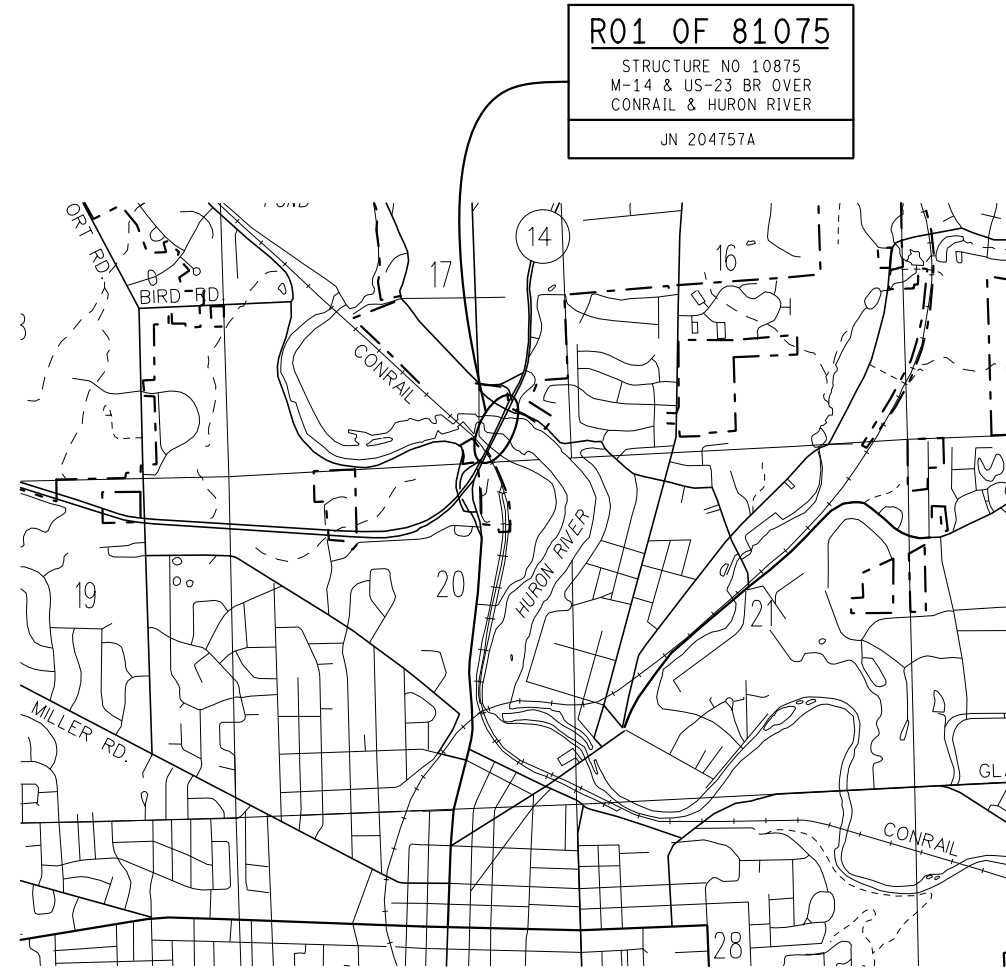
UNLESS OTHERWISE SHOWN ON THE PLANS, PROVIDE MINIMUM CONCRETE CLEAR COVER FOR REINFORCEMENT ACCORDING TO THE FOLLOWING:

CONCRETE CAST AGAINST EARTH:	3 IN.
ALL OTHER UNLESS SHOWN ON PLANS:	2 IN.

THIS PROJECT HAS BEEN EVALUATED USING THE FAA NOTICE CRITERIA TOOL FOR A STRUCTURE HEIGHT OF 199 FEET ABOVE A GROUND ELEVATION OF 822 FEET AND NO PERMITS ARE REQUIRED.

THE REGULATED WASTE ACTIVITY IDENTIFICATION NUMBER FOR THIS PROJECT IS AS FOLLOWS:

CONTROL SECTION	NUMBER
R01 OF 81075	MIR000042309



**MICHIGAN
DEPARTMENT OF TRANSPORTATION**
PAUL C. AJEGBA, P.E. - DIRECTOR

CONTRACT FOR:
PIN & HANGER REPLACEMENT, BEARING REPLACEMENT, DIAPHRAGM REPLACEMENT,
SUBSTRUCTURE PATCHING, PIER COLUMN WIDENING, & MAINTENANCE OF TRAFFIC.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)			
NO.	DATE	AUTH	DESCRIPTION



NO SCALE

FILE: 204757_title_001.dgn

DATE: 04/07/21

DESIGN UNIT: TRIEZENBERG

TSC: BRIGHTON

CS: 81075

JN: 204757A

TITLE SHEET



DRAWING SHEET
WRP0287 SEC 10
TITLE SHEET
1001

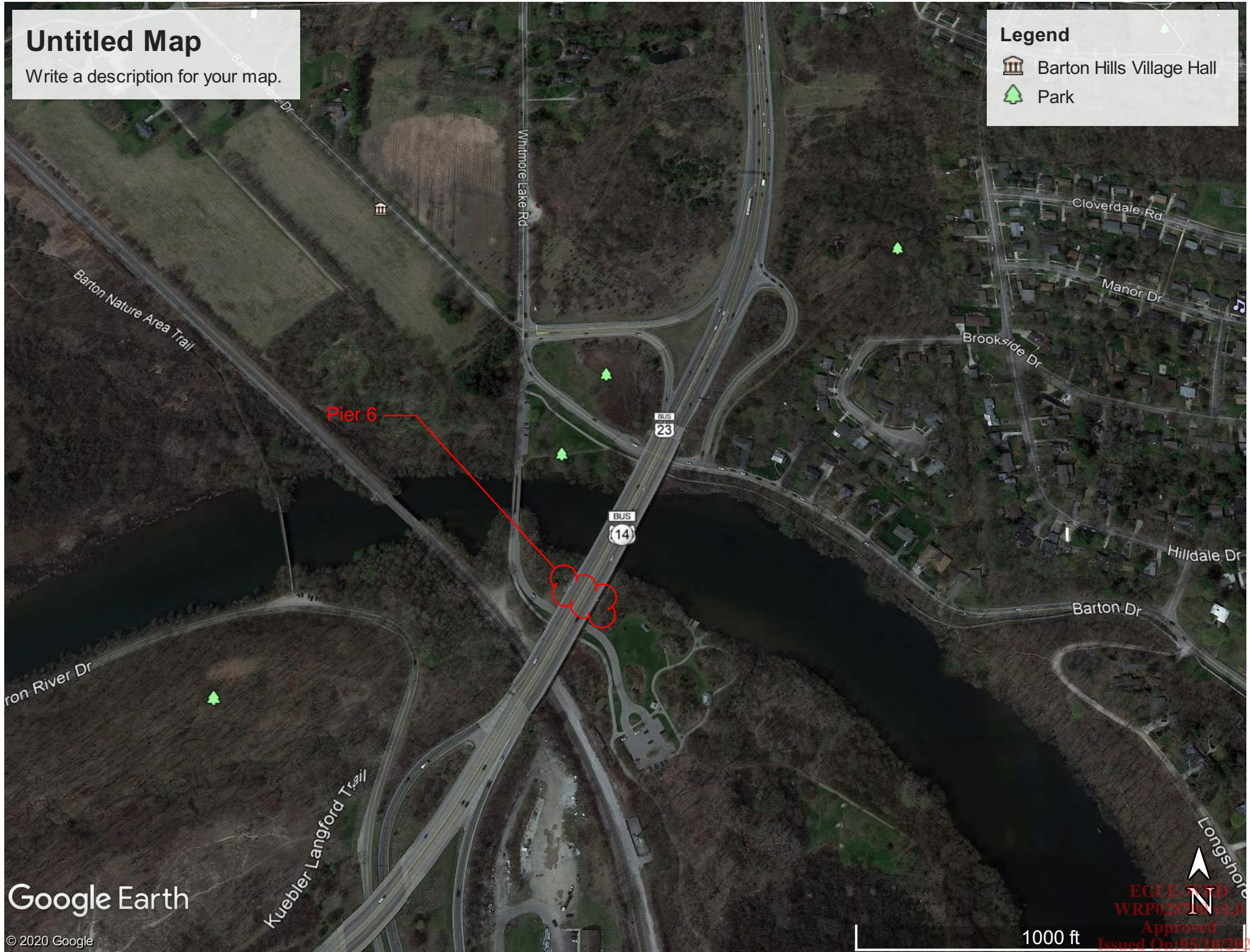
Issued On: 05/10/2021
Expires On: 05/10/2026

Untitled Map

Write a description for your map.

Legend

-  Barton Hills Village Hall
-  Park

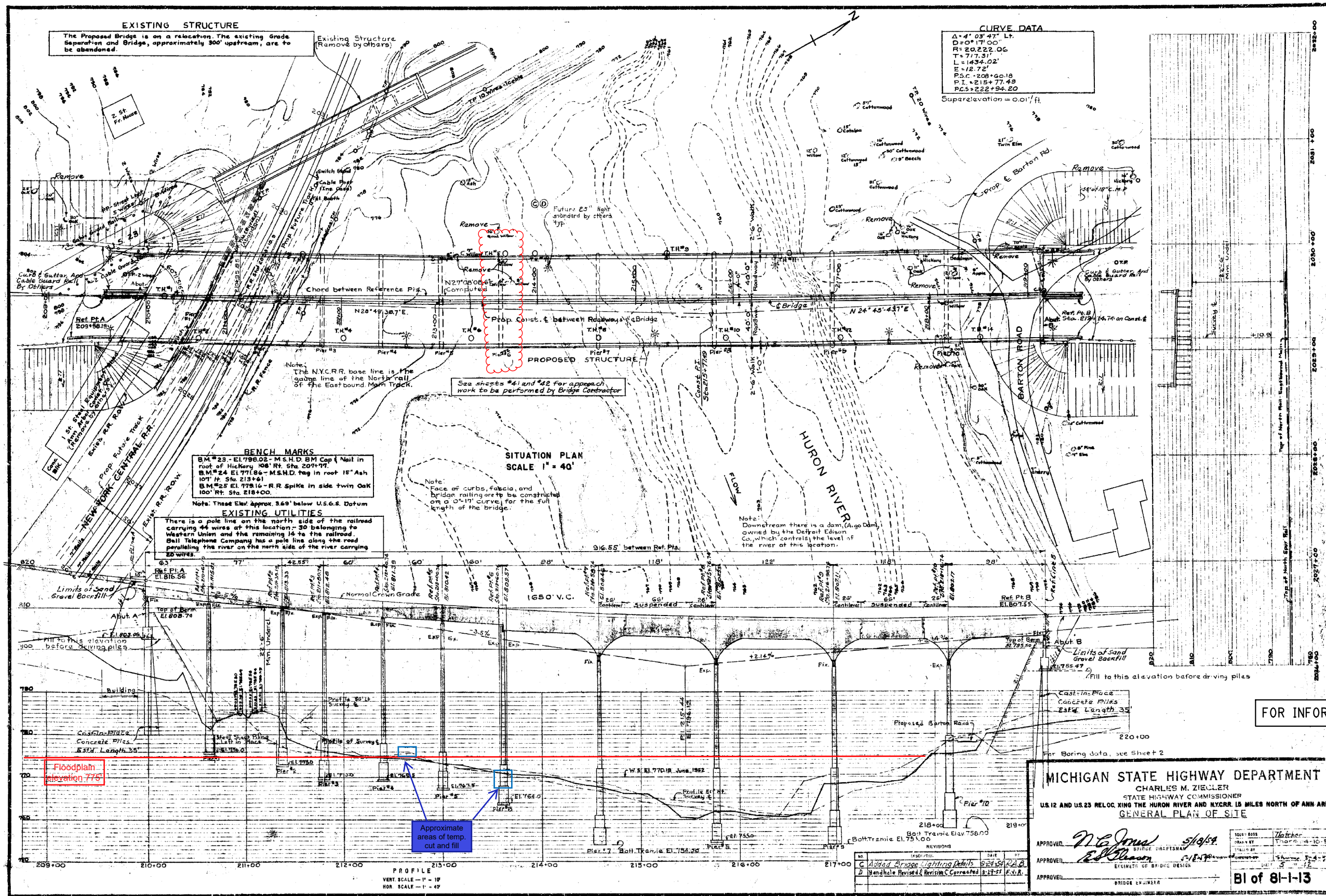


Google Earth

© 2020 Google

1000 ft

EGLE-SD
WRP028710-1.0
Approved
Issued On: 05/10/2021
Expires On: 05/10/2026



EXISTING STRUCTURE
The Proposed Bridge is on a relocation. The existing Grade Separation and Bridge, approximately 300' upstream, are to be abandoned.

CURVE DATA
 $\Delta = 4^\circ 03' 47''$ LT.
 $D = 0^\circ 17' 00''$
 $R = 20,222.06$
 $T = 717.31'$
 $L = 1434.02'$
 $E = 12.72'$
 $P.S.C. = 208+60.18$
 $P.I. = 215+77.49$
 $P.C.S. = 222+94.20$
 Superelevation = 0.01'/ft.

BENCH MARKS
 B.M. #23 - EL 798.02 - M.S.H.D. B.M. Cap & Nail in root of Hickory 100' Rt. Sta. 207+77.
 B.M. #24 - EL 771.86 - M.S.H.D. tag in root 15" Ash 107' Rt. Sta. 213+61.
 B.M. #25 - EL 778.16 - R.R. spike in side twin Oak 100' Rt. Sta. 218+00.
 Note: These Elev. Approx. 3.69' below U.S.G.S. Datum

See sheets #41 and #42 for approach work to be performed by Bridge Contractor

SITUATION PLAN
SCALE 1" = 40'

EXISTING UTILITIES
 There is a pole line on the north side of the railroad carrying 44 wires at this location - 30 belonging to Western Union and the remaining 14 to the railroad. Bell Telephone Company has a pole line along the road paralleling the river on the north side of the river carrying 20 wires.

Floodplain elevation 775

FOR INFORMATION ONLY

DO NOT WORK FROM THIS SHEET. THE INFORMATION SHOWN HERE IS FOR REFERENCE ONLY. NO PAY ITEMS ARE SHOWN.

MICHIGAN STATE HIGHWAY DEPARTMENT
 CHARLES M. ZIEGLER
 STATE HIGHWAY COMMISSIONER
 US 12 AND US 23 RELOC. KING THE HURON RIVER AND NYCR. 1.5 MILES NORTH OF ANN ARBOR
 GENERAL PLAN OF SITE

APPROVED: *N.C. Jones* 5/14/20
 BRIDGE ENGINEER

APPROVED: *E.D. Blanton* 5/14/20
 ENGINEER OF BRIDGE DESIGN

APPROVED: _____
 BRIDGE ENGINEER

NO. _____ DATE _____
 C. Added Bridge Lighting Details 6/24/20 F.V.R.
 D. Handhole Revised & Revision C Corrected 3/17/21 F.V.R.

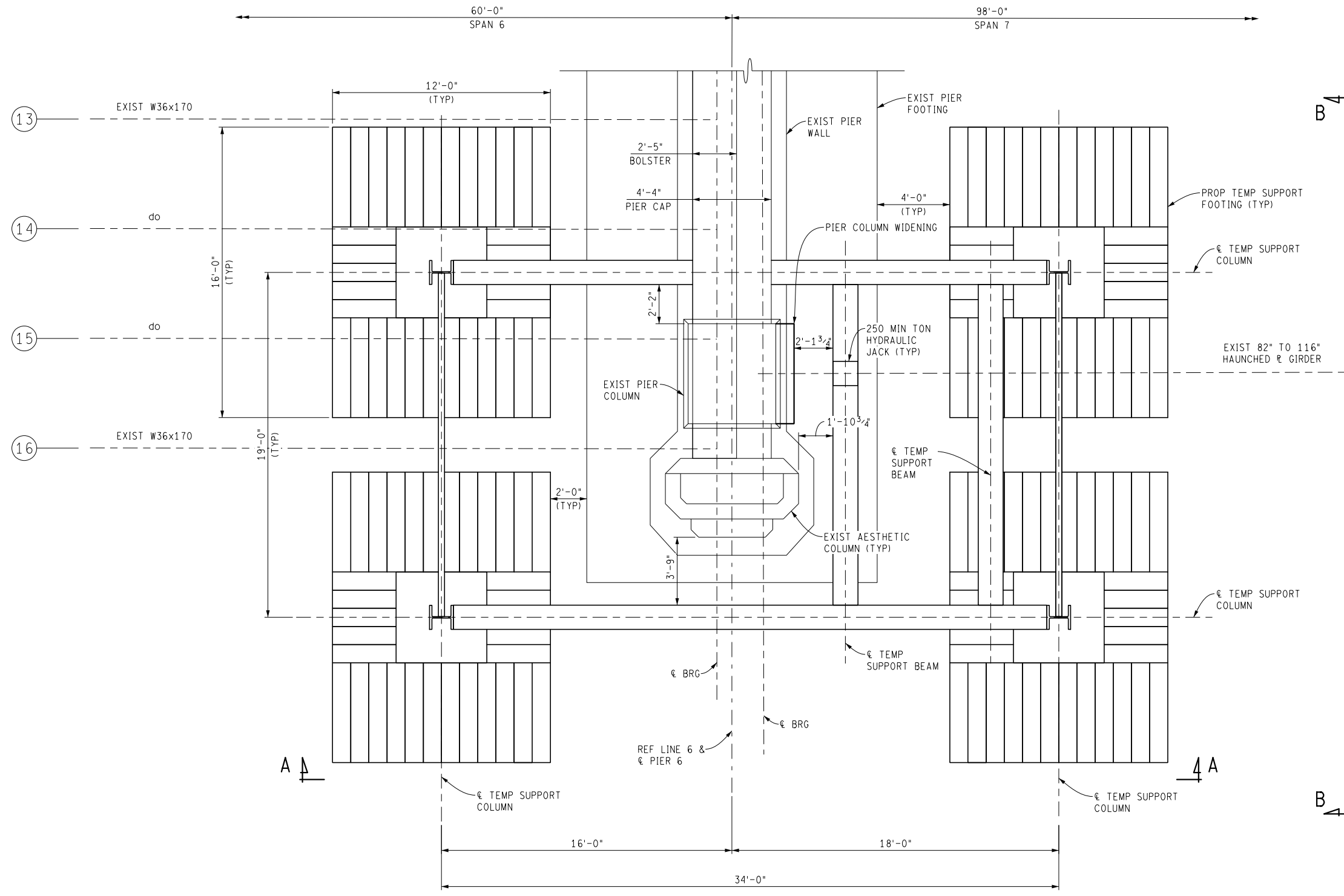
DATE: 01/10/20
 DESIGN UNIT: VANLERBERG
 TSC: BRIGHTON

CS: R01 OF 81075
 JUN: 204757A

Bl of 81-1-13

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)		benesch		MDOT		NO SCALE		DATE: 01/10/20		CS: R01 OF 81075		EXISTING GENERAL PLAN OF SITE - INFO		DRAWING SHEET	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	FILE: R01_81075_info_001.dgn	DESIGN UNIT: VANLERBERG	JUN: 204757A	EXISTING GENERAL PLAN OF SITE - INFO	INFO	INFO	INFO	INFO

Issued On: 05/10/2021
 Expires On: 05/10/2026



SOIL EROSION AND SEDIMENTATION CONTROL QUANTITIES		
TOTAL	UNIT	DESCRIPTION
4	Ea	Erosion Control, Inlet Protection, Fabric Drop
5	Cyd	Erosion Control, Maintenance, Sediment Removal
300	Ft	Erosion Control, Silt Fence

MISCELLANEOUS QUANTITIES		
TOTAL	UNIT	DESCRIPTION
1,317	Cyd	Backfill, Structure, CIP
1,317	Cyd	Excavation, Fdn
4,025	Lb	Stiffeners, Furn, Fab, and Erect
4	Ea	Structural Steel, Temp Support, Spec

* EXCAVATED MATERIAL CAN BE USED FOR BACKFILLING.

NOTES:

- TEMPORARY SUPPORTS ARE REQUIRED TO FACILITATE BEARING REPLACEMENT AND PIER COLUMN WIDENING.
- ALTERNATE DESIGNS OF THE TEMPORARY SUPPORT SHALL BE BASED ON LOADS AS FOLLOWS:
 107 TONS VERTICAL GIRDER DEAD LOAD
 99 TONS VERTICAL GIRDER LIVE LOAD INCLUDING IMPACT
 2000 PSF ALLOWABLE SOIL PRESSURE
- EACH TEMPORARY SUPPORT FRAME INCLUDES 69,300 LBS OF STRUCTURAL STEEL.
- ALL STRUCTURAL STEEL REQUIRED FOR THE TEMPORARY SUPPORTS IS INCLUDED IN THE BID ITEM "STRUCTURAL STEEL, TEMP SUPPORT, SPECIAL".
- THE CONTRACTOR SHALL PROVIDE A TEMPORARY SUPPORT AT EACH POINT SHOWN ON THE PLANS.
- THE REGION/TSC SOILS ENGINEER SHALL BE REQUESTED TO PERFORM A FOUNDATION INSPECTION PRIOR TO THE PLACEMENT OF THE TEMPORARY SUPPORT FOOTING.
- STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270, GRADE 50, OR AASHTO M270, GRADE 50W.
- ALL TEMPORARY SUPPORTS SHALL MEET THE APPROVAL OF THE ENGINEER.
- TIMBER SHALL BE STRUCTURAL GRADE HAVING A MINIMUM FLEXURAL STRENGTH OF 1,200 PSI AND A MINIMUM HORIZONTAL SHEAR STRENGTH OF 100 PSI.
- TEMPORARY SUPPORTS SHALL NOT REMAIN LOADED FOR A PERIOD GREATER THAN FOUR WEEKS.
- PLACE SILT FENCE AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL REMOVE THE TEMPORARY SUPPORTS IN SUCH A MANNER AS TO ENSURE A GRADUAL AND UNIFORM REDUCTION OF LOADS AS APPROVED BY THE ENGINEER.
- ES DENOTES EACH SIDE.
- THE 34" R GIRDER MAY BE SUBSTITUTED WITH A W36x247.
- THE 38" R GIRDER MAY BE SUBSTITUTED WITH A W40x324.
- THE 14" R GIRDER COLUMN MAY BE SUBSTITUTED WITH A W14x211.
- THE 15" R GIRDER MAY BE SUBSTITUTED WITH A W15x57.
- F.C. DENOTES FRACTURE CRITICAL.

STAGE 1 TEMPORARY SUPPORT PLAN VIEW
(DIAPHRAGMS, FLOORBEAMS, STRINGERS NOT SHOWN FOR CLARITY)

FINAL ROW PLAN REVISIONS		(SUBMITTAL DATE:)	
NO.	DATE	AUTH	DESCRIPTION



NO SCALE

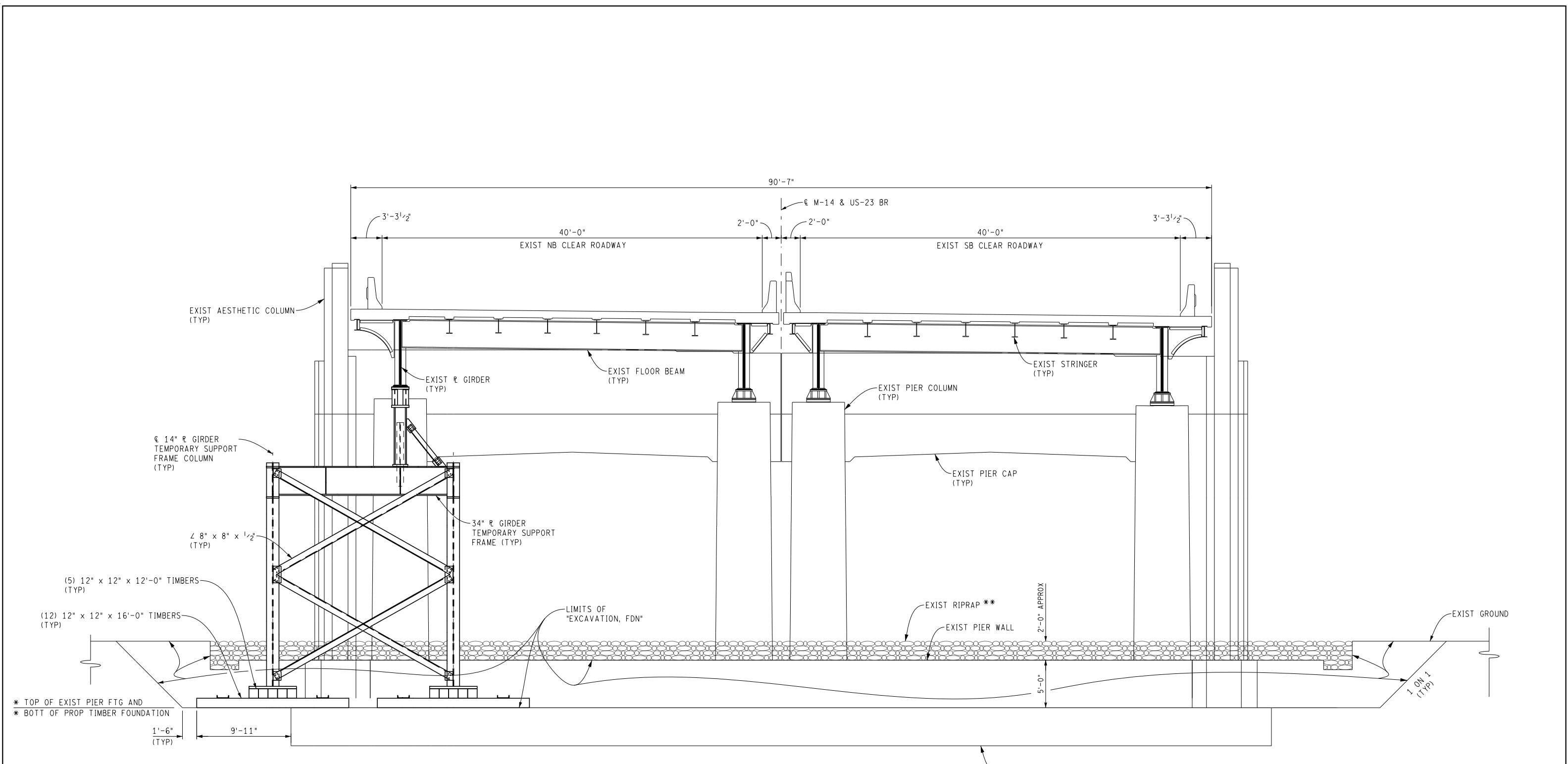
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DATE: 04/07/21
DESIGN UNIT: TRIEZENBERG
TSC: BRIGHTON

CS: R01 OF 81075
JN: 204757A

TEMPORARY SUPPORT DETAILS
DRAWING SHEET
WRP087602 v2.0
TSPST
003
Approve 56

Issued On: 05/10/2021
Expires On: 05/10/2026



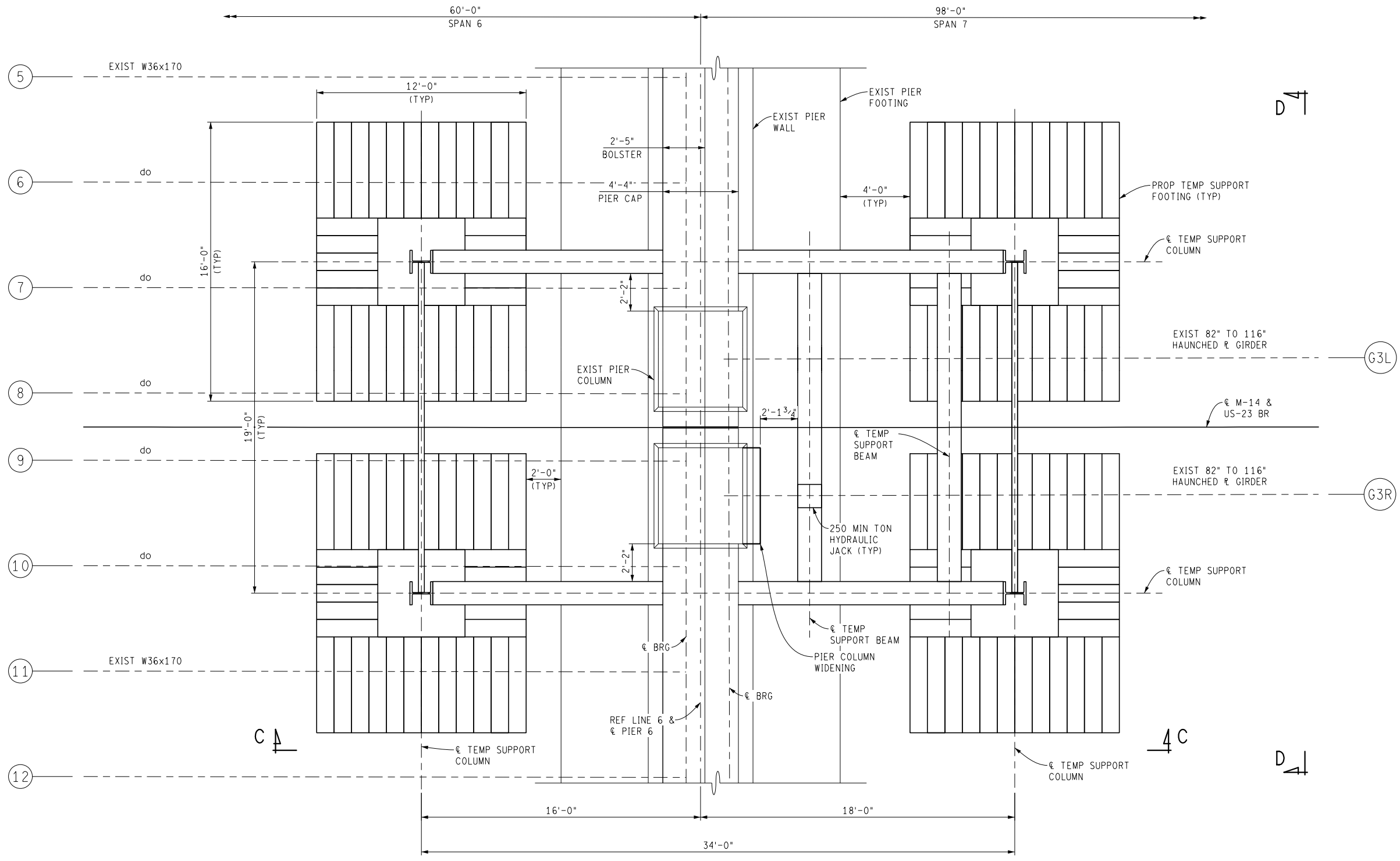
STAGE 1

VIEW B-B
(LOOKING DOWNSTATION)

- * BOTTOM OF PROPOSED TIMBER FOUNDATION SHALL BE AT OR BELOW TOP OF EXISTING PIER FOOTING.
- ** REMOVE, STORE, SALVAGE, AND REPLACE RIPRAP. SEE DWG "R01 RIPRAP 001" FOR LIMITS. INCLUDED IN THE BID ITEM "RIPRAP, FIELDSTONE, SALV AND REPLACE".

FINAL ROW PLAN REVISIONS				(SUBMITTAL DATE:)				 <small>Alfred Benesch & Company 4860 S. Hagedorn Rd. Suite 315 East Lansing, Michigan 48823 517-482-1622</small>	 <small>Michigan Department of Transportation</small>	NO SCALE	DATE: 04/07/21	CS: R01 OF 81075	TEMPORARY SUPPORT DETAILS	DRAWING SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION				DESIGN UNIT: TRIEZENBERG	JN: 204757A		WRP037602
FILE: R01_81075_tmpspt_004.dgn										TSC: BRIGHTON				

Issued On: 05/10/2021
Expires On: 05/10/2026



STAGE 2 TEMPORARY SUPPORT PLAN VIEW
 (DIAPHRAGMS, FLOORBEAMS, STRINGERS NOT SHOWN FOR CLARITY)

FINAL ROW PLAN REVISIONS				(SUBMITTAL DATE:)			
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



NO SCALE

FILE: R01_81075_tmpspt_005.dgn

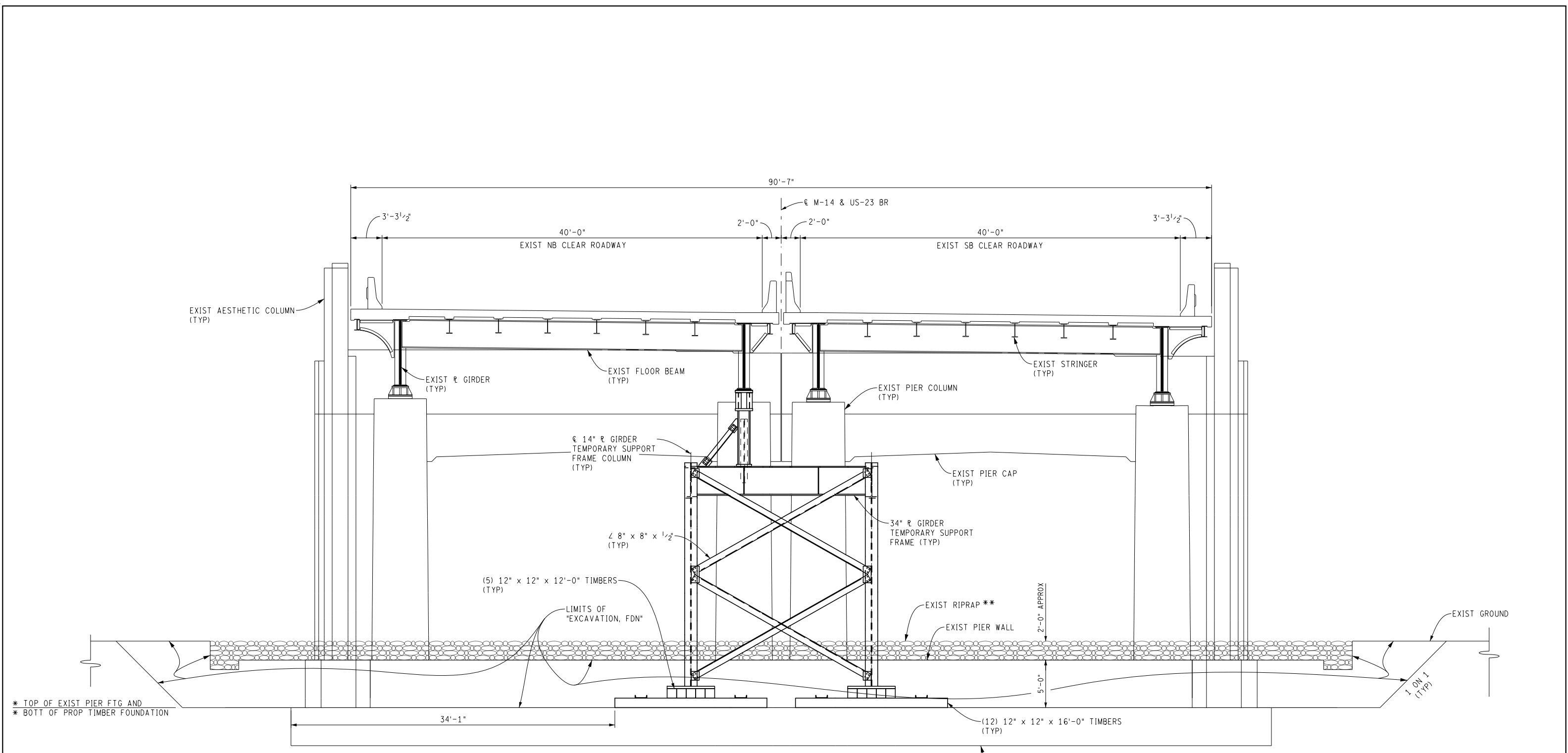
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CS: R01 OF 81075
 JN: 204757A

TEMPORARY SUPPORT DETAILS

DRAWING SHEET
WRP03762 v 2.0
TMPSP
005
58

Issued On: 05/10/2021
 Expires On: 05/10/2026



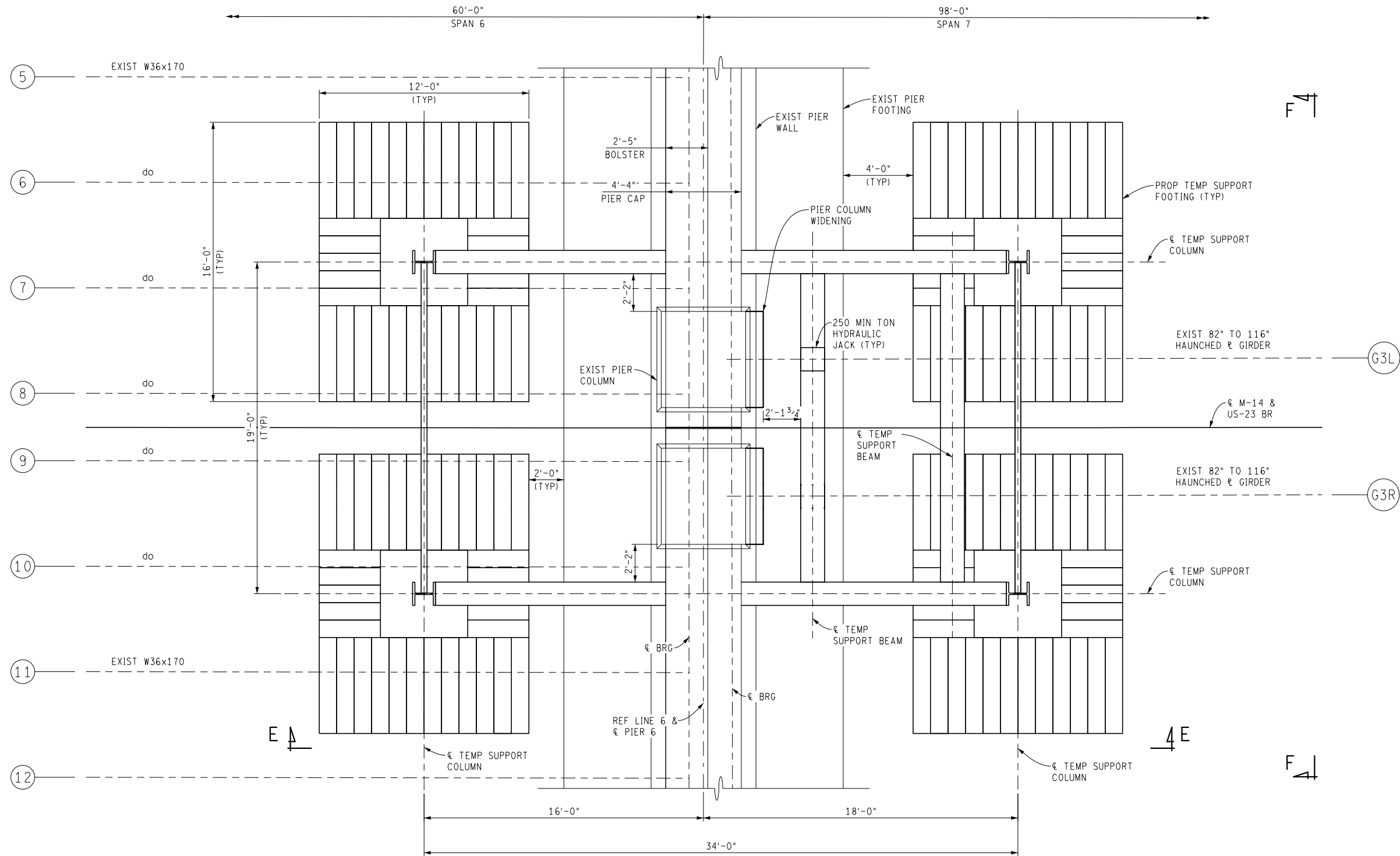
* TOP OF EXIST PIER FTG AND
 * BOTT OF PROP TIMBER FOUNDATION

* BOTTOM OF PROPOSED TIMBER FOUNDATION SHALL BE AT OR BELOW TOP OF EXISTING PIER FOOTING.
 ** REMOVE, STORE, SALVAGE, AND REPLACE RIPRAP. SEE DWG "R01 RIPRAP 001" FOR LIMITS. INCLUDED IN THE BID ITEM "RIPRAP, FIELDSTONE, SALV AND REPLACE".

STAGE 2
 VIEW D-D
 (LOOKING DOWNSTATION)

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								DATE: 04/07/21		CS: R01 OF 81075		TEMPORARY SUPPORT DETAILS	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	DESIGN UNIT: TRIEZENBERG	JN: 204757A	DRAWING SHEET		59	
										WRP 0376			
								FILE: R01_81075_tmpspt_006.dgn	TSC: BRIGHTON				

Issued On: 05/10/2021
 Expires On: 05/10/2026



STAGE 3 TEMPORARY SUPPORT PLAN VIEW
(DIAPHRAGMS, FLOORBEAMS, STRINGERS NOT SHOWN FOR CLARITY)

FINAL ROW PLAN REVISIONS				(SUBMITTAL DATE:)			
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



NO SCALE

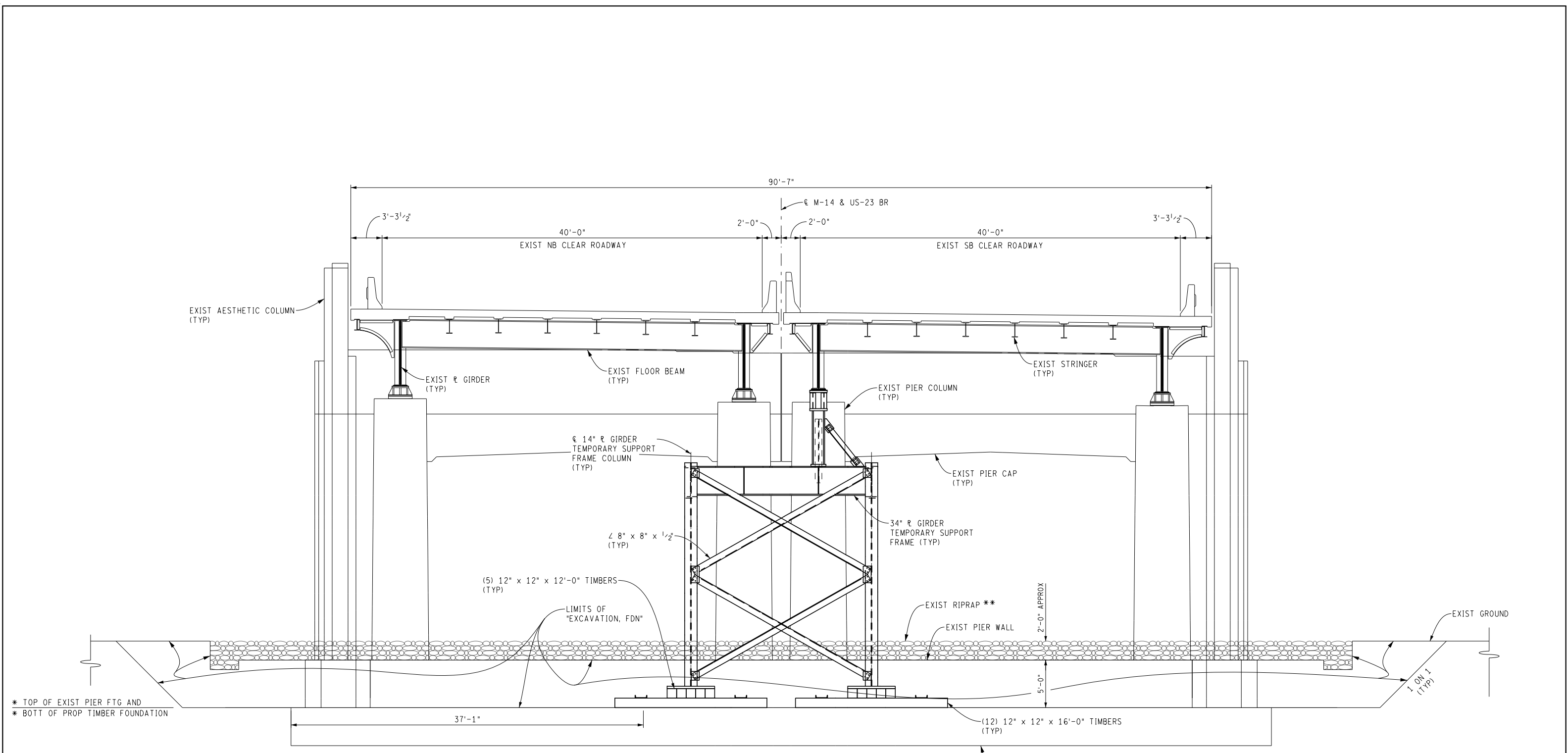
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DATE: 04/07/21
DESIGN UNIT: TRIEZENBERG
TSC: BRIGHTON

CS: R01 OF 81075
JN: 204757A

TEMPORARY SUPPORT DETAILS
DRAWING SHEET
WRP 876 v 2.0
TMPSPT
1007
60

Issued On: 05/10/2021
Expires On: 05/10/2026



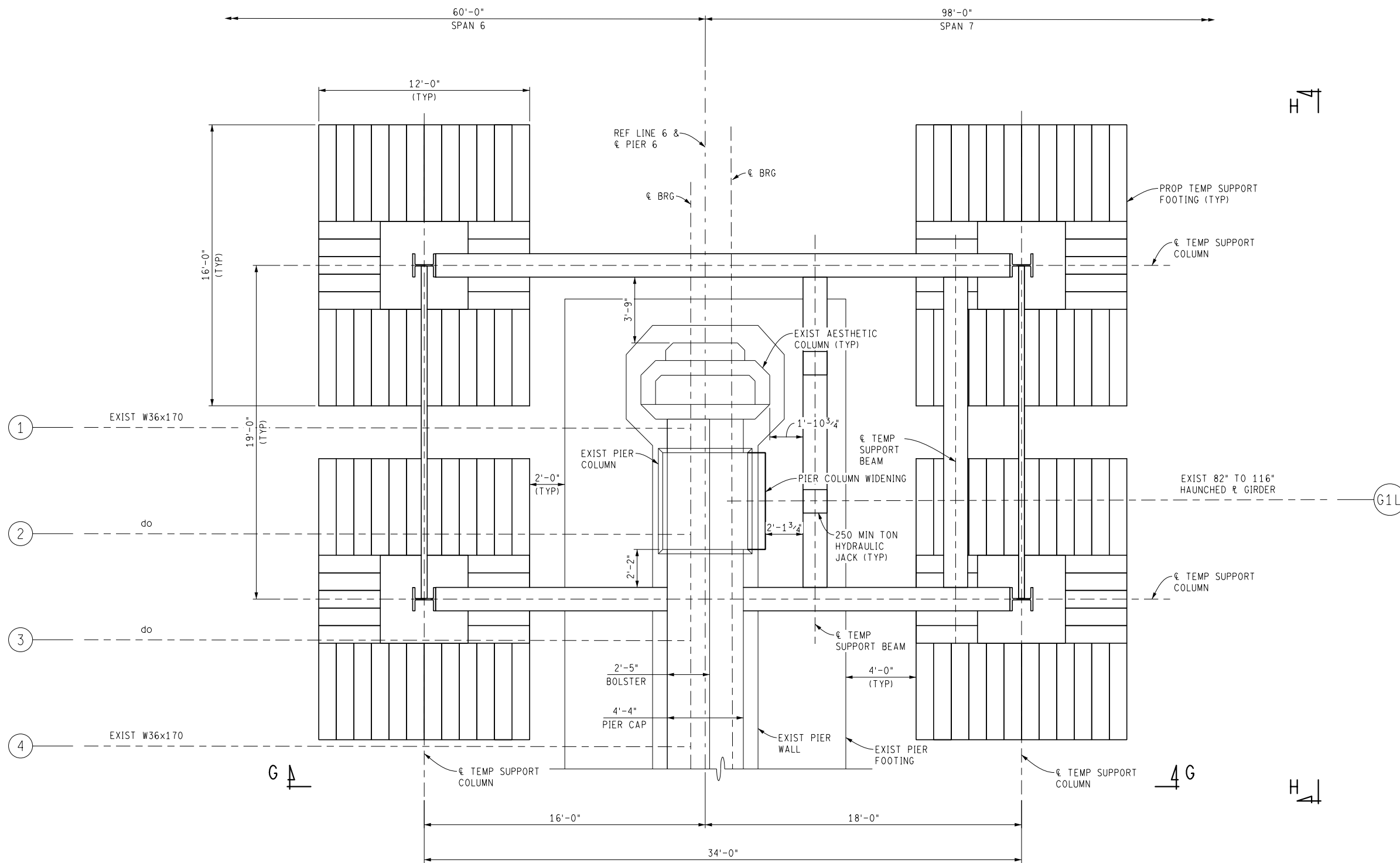
STAGE 3

VIEW F-F
(LOOKING DOWNSTATION)

- * BOTTOM OF PROPOSED TIMBER FOUNDATION SHALL BE AT OR BELOW TOP OF EXISTING PIER FOOTING.
- ** REMOVE, STORE, SALVAGE, AND REPLACE RIPRAP. SEE DWG "R01 RIPRAP 001" FOR LIMITS. INCLUDED IN THE BID ITEM "RIPRAP, FIELDSTONE, SALV AND REPLACE".

FINAL ROW PLAN REVISIONS				(SUBMITTAL DATE:)				 <small>Alfred Benesch & Company 4860 S. Hagedorn Rd. Suite 315 East Lansing, Michigan 48823 517-486-1622</small>	 <small>Michigan Department of Transportation</small>	NO SCALE	DATE: 04/07/21	CS: R01 OF 81075	TEMPORARY SUPPORT DETAILS	DRAWING SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION				DESIGN UNIT: TRIEZENBERG	JN: 204757A		WRP0376C v 2.0

Issued On: 05/10/2021
Expires On: 05/10/2026



STAGE 4 TEMPORARY SUPPORT PLAN VIEW
 (DIAPHRAGMS, FLOORBEAMS, STRINGERS NOT SHOWN FOR CLARITY)

FINAL ROW PLAN REVISIONS				(SUBMITTAL DATE:)			
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



NO SCALE

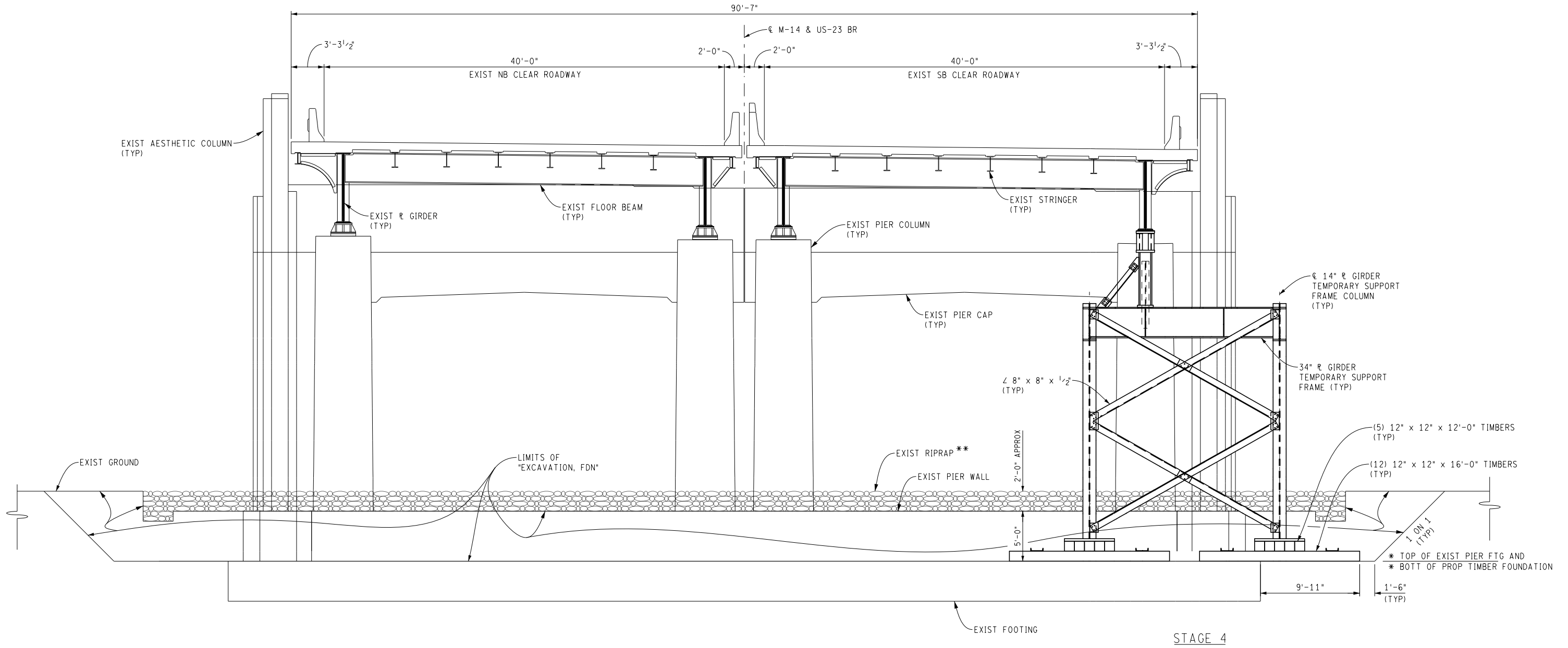
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DATE: 04/07/21
 DESIGN UNIT: TRIEZENBERG
 TSC: BRIGHTON

CS: R01 OF 81075
 JN: 204757A

TEMPORARY SUPPORT DETAILS
 DRAWING SHEET
 WRP03762 v2.0
 TMPSPT
 009
 62

Issued On: 05/10/2021
 Expires On: 05/10/2026



VIEW H-H

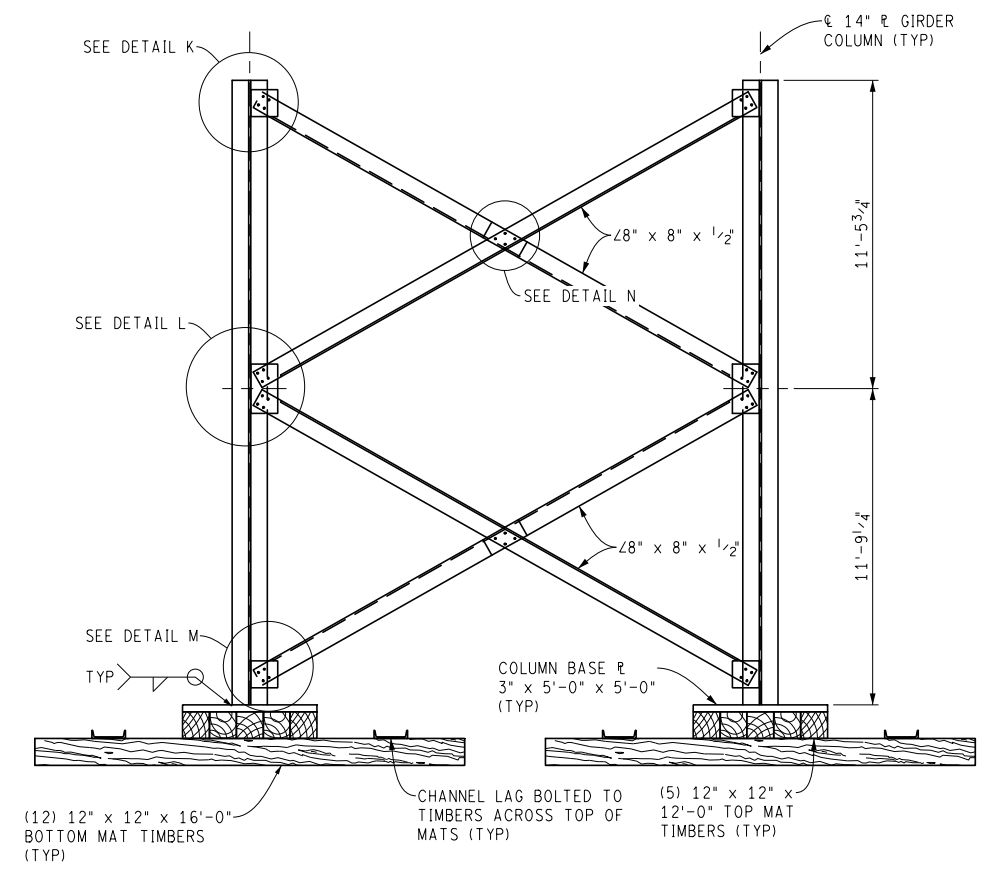
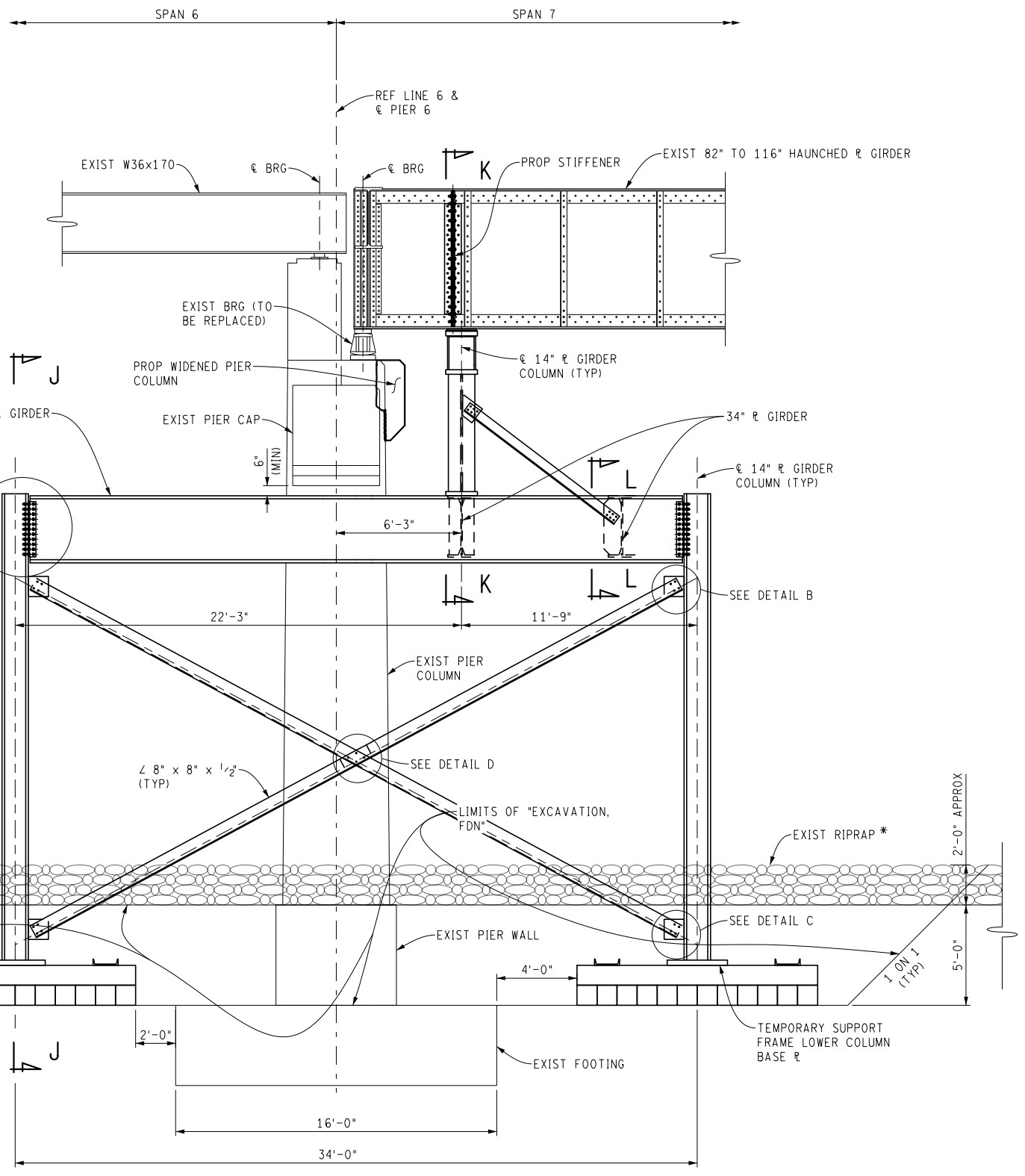
(LOOKING DOWNSTATION)

- * BOTTOM OF PROPOSED TIMBER FOUNDATION SHALL BE AT OR BELOW TOP OF EXISTING PIER FOOTING.
- ** REMOVE, STORE, SALVAGE, AND REPLACE RIPRAP. SEE DWG "R01 RIPRAP 001" FOR LIMITS. INCLUDED IN THE BID ITEM "RIPRAP, FIELDSTONE, SALV AND REPLACE".

FINAL ROW PLAN REVISIONS				(SUBMITTAL DATE:)			
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

		NO SCALE	DATE: 04/07/21 DESIGN UNIT: TRIEZENBERG TSC: BRIGHTON	CS: R01 OF 81075 JN: 204757A	TEMPORARY SUPPORT DETAILS
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DRAWING SHEET
 WRP 876 v 2.0
 TMSPT
 010
 63
 Issued On: 05/10/2021
 Expires On: 05/10/2026



SECTION J-J

* REMOVE, STORE, SALVAGE, AND REPLACE RIPRAP. SEE DWG "R01 RIPRAP 001" FOR LIMITS. INCLUDED IN THE BID ITEM "RIPRAP, FIELDSTONE, SALV AND REPLACE".

VIEWS A-A, C-C, E-E, & G-G

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)				 				NO SCALE		DATE: 04/07/21	CS: R01 OF 81075	DRAWING SHEET	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION		DESIGN UNIT: TRIEZENBERG	JN: 204757A	TEMPORARY SUPPORT DETAILS		
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