

SHEET INDEX

DRAWING NO.	SHEET NO.	SHEET TITLE
1	TI-01	TITLE SHEET
2	MT-01	MAINTENANCE OF TRAFFIC GENERAL NOTES
3	MT-02	MAINTENANCE OF TRAFFIC DETOUR PLAN
4	ES-01	EROSION AND SEDIMENT CONTROL PLAN
5	EN-01	EROSION AND SEDIMENT CONTROL NOTES-1
6	EN-02	EROSION AND SEDIMENT CONTROL NOTES-2
7	EN-03	EROSION AND SEDIMENT CONTROL NOTES-3
8	S-01	GENERAL PLAN AND ELEVATION
9	S-02	SCHEDULE OF WORK
10	S-03	FRAMING PLAN AND TRUSS ELEVATIONS
11	S-04	EXISTING AND PROPOSED TYPICAL SECTIONS
12	S-05	SUPERSTRUCTURE REPAIR DETAILS 1
13	S-06	SUPERSTRUCTURE REPAIR DETAILS 2
14	S-07	SUPERSTRUCTURE REPAIR DETAILS 3
15	S-08	SUBSTRUCTURE REPAIR DETAILS 1
16	S-09	SUBSTRUCTURE REPAIR DETAILS 2
17	S-10	JACKING SYSTEM - GENERAL PLAN AND ELEVATION
18	S-11	JACKING SYSTEM - FRAMING PLAN AND ELEVATION
19	S-12	JACKING SYSTEM - TYPICAL SECTION
20	S-13	JACKING SYSTEM DETAILS 1
21	S-14	JACKING SYSTEM DETAILS 2

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
OFFICE OF TRANSPORTATION ENGINEERING
REHABILITATION TO BRIDGE NO.
F05-03 ON SIXES BRIDGE ROAD
OVER MONOCACY RIVER
FREDERICK COUNTY PROJECT NO. C6015.6015.01

UTILITY GENERAL NOTE
ALL WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FREDERICK COUNTY GENERAL CONDITIONS AND STANDARD SPECIFICATIONS AND DETAILS FOR WATER MAINS, SANITARY SEWER AND RELATED STRUCTURES, SPECIAL PROVISIONS AND AMENDMENTS THERETO.

EXISTING UTILITIES
THE TYPE AND LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE AS TO THE ACCURACY OF SAID LOCATIONS. CONTACT "MISS UTILITY" AT 1-800-257-7777 A MINIMUM OF 5 DAYS PRIOR TO START OF WORK.

WHEN CLEARING AND GRUBBING TO INSTALL AND DURING THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES WITHIN THE TEMPORARY EASEMENT AREAS (BETWEEN THE LIMITS OF PERMANENT GRADING AND LIMIT OF DISTURBANCE),THE CONTRACTOR SHALL MAKE EVERY POSSIBLE ATTEMPT TO AVOID UNNECESSARY DISTURBANCE TO EXISTING TREES,STRUCTURES AND LANDSCAPING WITHIN THE AREA. THE CONTRACTOR SHALL PRESENT THE ENGINEER WITH POSSIBLE OPTIONS TO MINIMIZE DISTURBANCES TO THESE ITEMS FOR APPROVAL.

DISTURBED AREA QUANTITY
THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE APPROXIMATELY 27.185 SQUARE FEET, AND THE TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE APPROXIMATELY 0 CUBIC YARDS** OF EXCAVATION AND APPROXIMATELY 0 CUBIC YARDS** OF FILL.

DAVID HECKMAN LICENSE REG NO. 33944 DATE

**THESE QUANTITIES ARE APPROXIMATE AND SHALL NOT BE USED BY THE CONTRACTOR FOR BIDDING PURPOSES.

ENGINEER'S CERTIFICATION
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH LOCAL ORDINANCES, COMAR 26.17.01.07 AND 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (LATEST VERSION AND REVISIONS).

DAVID HECKMAN LICENSE REG NO. 33944 DATE

DEVELOPMENT REVIEW ENGINEERING

REVIEWED IN ACCORDANCE WITH LOCAL COUNTY REQUIREMENTS. FREDERICK COUNTY ASSUMES NO LIABILITY FOR DESIGN AND /OR CONSTRUCTION. APPROVAL IS VALID FOR TWO (2) YEARS (ONE (1) YEAR IF PUBLIC WATER AND /OR SEWER IS INVOLVED) AFTER THE LAST DATE SHOWN ABOVE. THE PROJECT MUST BE UNDER CONSTRUCTION BEFORE THE APPROVAL EXPIRATION TO BE CONSIDERED ACTIVE. OTHERWISE, RESUBMITTAL OF PLANS, INCLUDING APPLICABLE FEES, MUST BE MADE TO DEVELOPMENT REVIEW FOR APPROVAL. FEES FOR RESUBMITTAL CANNOT BE WAIVED.

NOTICE TO BIDDERS

THE SPECIFICATIONS FOR THIS CONTRACT WILL BE THOSE OF THE STATE HIGHWAY ADMINISTRATION, TITLED "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS", DATED JULY 2024, REVISIONS THERETO, AND THE SPECIAL PROVISIONS.

SEDIMENT AND EROSION CONTROL WILL BE STRICTLY ENFORCED DURING CONSTRUCTION. BY ENVIRONMENTAL COMPLIANCE SECTION PHONE NO. 301-600-3507

THE GRADING LIMITS SHOWN ON THE PLANS ARE NOT TO BE EXCEEDED. CHANGES IN THE GRADING, EROSION AND SEDIMENT CONTROL PLAN, OR OTHER SEGMENT OF THE WORK MUST BE REVIEWED AND APPROVED BY THE FREDERICK COUNTY DIVISION OF PUBLIC WORKS.

THE FREDERICK COUNTY DIVISION OF PUBLIC WORKS SHALL ONLY BE RESPONSIBLE FOR THE COMPLETENESS OF DOCUMENTS OBTAINED DIRECTLY FROM FREDERICK COUNTY. FAILURE TO ATTACH ADDENDA MAY CAUSE THE BID TO BE NON-RESPONSIVE.

IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR THAT THE STANDARD PLATES IN HIS / HER POSSESSION ARE THE LATEST REVISED S.H.A. STANDARD PLATES AS OF THE DATE OF THE AWARD OF THIS PROJECT.

RIGHT OF WAY LINES ON THESE PLANS ARE FOR ASSISTANCE IN INTERPRETING THE PLANS. THESE LINES WERE ESTABLISHED BY A BOUNDARY SURVEY COMPLETED BY JMT IN JUNE 2024 BASED ON SHA PLAT NOS. 8470 AND 8471. DEED INFORMATION IS AVAILABLE UPON REQUEST.

MDE PERMIT NO.: , EXPIRATION DATE:

US ARMY CORPS OF ENGINEERS PERMIT NO.: NA

BENJAMIN CARTWRIGHT DATE

PROFESSIONAL CERTIFICATION

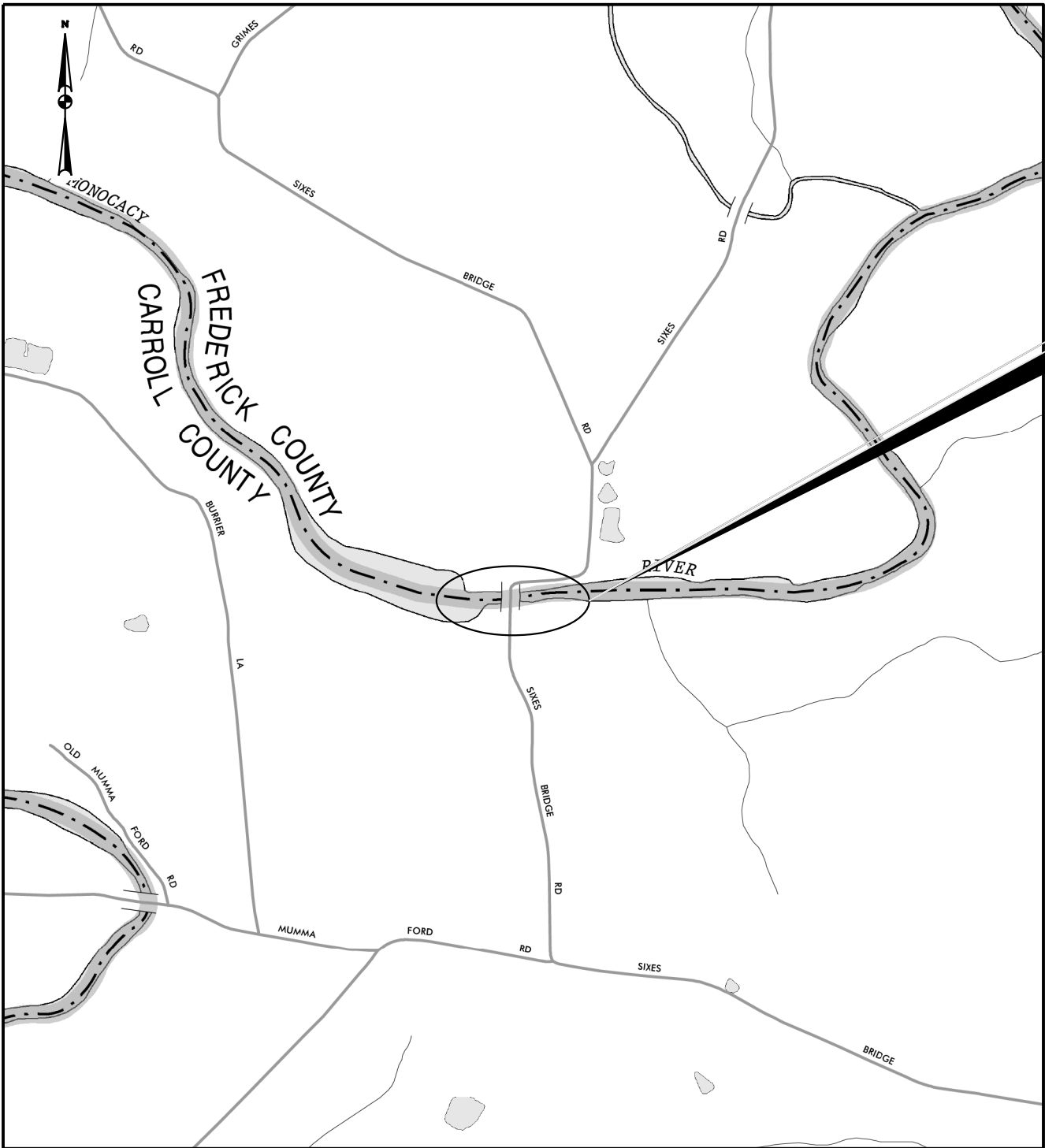
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 41430. EXPIRATION DATE: 1-5-26

OWNER'S / DEVELOPER'S CERTIFICATION

I / WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, AND / OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

TRACY DIGGS, ACTING CHIEF DATE
FREDERICK COUNTY OFFICE OF TRANSPORTATION ENGINEERING
355 MONTEVUE LANE, SUITE 200
FREDERICK, MARYLAND 21702
301-600-2932



LENGTH OF PROJECT: 239 ft

LOCATION MAP

SCALE: 1" = 100'

SURVEY INFORMATION

HORIZONTAL AND VERTIAL DATUM WERE ESTABLISH IN JULY 2024 BY GNSS RTN (SMARTNET). OBSERVATIONS AND REFERENCED TO THE MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83/2011
VERTICAL DATUM - NAVD88

APPROVALS SUMMARY TABLE					
Permit	Applicable		Tracking No.	Approval Date	Expiration Date
	Yes	No			
Soil Conservation District	X				
MDE Wetlands and Waterways	X				
MDE NOI for Stormwater Associated with Construction Activity		X			
CLOMR/LOMR		X			
Other: DNR Roadside Tree Permit	X				
Other: Programmatic Categorical Exclusion	X				

Internal Use Only
Development Review
File #
A / P #
Due Date:

SCD APPROVAL FOR SEDIMENT AND EROSION CONTROL IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.

FREDERICK SOIL CONSERVATION DISTRICT	FREDERICK COUNTY DIVISION OF PUBLIC WORKS	FREDERICK COUNTY OFFICE OF TRANSPORTATION ENGINEERING
APPROVED BY: _____ DISTRICT MANAGER	APPROVED BY: _____ DIRECTOR	APPROVED BY: _____ CHIEF
DATE _____	DATE _____	DATE _____



TI-01	
FREDERICK COUNTY, MARYLAND	
DIVISION OF PUBLIC WORKS DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT OFFICE OF TRANSPORTATION ENGINEERING FREDERICK COUNTY, MARYLAND	
REHABILITATION TO BRIDGE NO. F05-03 ON SIXES BRIDGE ROAD OVER MONOCACY RIVER	
TITLE SHEET	
DATE: OCTOBER 2024	SCALE: AS SHOWN
FREDERICK COUNTY PROJECT NO.: C6015.6015.01	DWG. 1 OF 21

MAINTENANCE OF TRAFFIC GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MARYLAND STATE HIGHWAY ADMINISTRATION WORK ZONE TRAFFIC CONTROL TYPICALS IN CATEGORY 1 OF THE BOOK OF STANDARDS, THE 2011 MdMUTCD AND SUBSEQUENT REVISIONS ADOPTED BY THE STATE OF MARYLAND, THESE PLANS, AND THE OTHER CONTRACT DOCUMENTS.
- NO WORK IS TO BEGIN UNTIL ALL ADVANCE WARNING SIGNS, DRUMS, AND PAVEMENT MARKINGS ARE IN PLACE AND OPERATIONAL, AS APPROVED BY THE ENGINEER.
- ALL EXISTING SIGNS AND PAVEMENT MARKINGS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION UNLESS A CHANGE IS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.
- PORTABLE VARIABLE MESSAGE SIGNS (PVMS) SHALL BE USED TO INFORM THE PUBLIC OF CHANGES TO THE TRAFFIC PATTERNS. PVMS MESSAGES, LOCATIONS, TIMING, AND DURATION OF USE SHALL BE AS DIRECTED BY THE ENGINEER. PVMS SHALL BE PLACED ACCORDING TO STD. NO. MD 104.01-22.
- ALL DETOUR SIGNS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT EXISTING TRAFFIC CONTROL DEVICES OR INTERSECTION OR ROADWAY SIGHT DISTANCE AS PER AASHTO'S "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS" LATEST EDITION.
- MISS UTILITY MUST BE NOTIFIED 72 HOURS PRIOR TO THE PLACEMENT OF SIGNING (800) 257-7777.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH MDOT SHA MOT STANDARDS.
- THE CONTRACTOR MUST COORDINATE WITH ADJACENT PROJECTS TO ENSURE THE DETOUR ROUTE DOES NOT HAVE TEMPORARY LANE CLOSURES.
- ALL TEMPORARY SIGNS SHALL CONFORM TO AND BE INSTALLED IN ACCORDANCE TO MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION SPECIFICATIONS FOR CONSTRUCTION OF MATERIALS, INCLUDING REFLECTIVITY REQUIREMENTS, SECTION 104.08 AND NCHRP 350.

SEQUENCE OF CONSTRUCTION – DETOUR

- NOTIFY APPROPRIATE AGENCIES AS SHOWN UNDER "ROADWAY CLOSURE NOTIFICATION".
- PLACE PORTABLE VARIABLE MESSAGE SIGNS AS NOTED IN DETOUR SHEET 2 WEEKS PRIOR TO THE ROAD CLOSURE AND 2 WEEKS AFTER CONSTRUCTION START TO NOTIFY THE TRAVELING PUBLIC ABOUT THE UPCOMING ROAD CLOSURE.
- INSTALL ALL ADVANCED WARNING AND DETOUR SIGNS AS SHOWN IN THE PLANS. SIGNS SHALL BE FULLY COVERED WITH AN OPAQUE BLACK MATERIAL UNTIL SUCH TIME THAT THE ROAD CLOSURE AND DETOUR ARE IN EFFECT.
- IMMEDIATELY PRIOR TO THE ROAD CLOSURE, UNCOVER ADVANCED WARNING AND DETOUR SIGNS AND CLOSE SIXES BRIDGE ROAD.
- PERFORM WORK AS SHOWN ON THE PLANS.
- AT THE END OF ROAD CLOSURE AND CONSTRUCTION, REMOVE ALL REMAINING WARNING, DETOUR, AND INFORMATIONAL SIGNS.

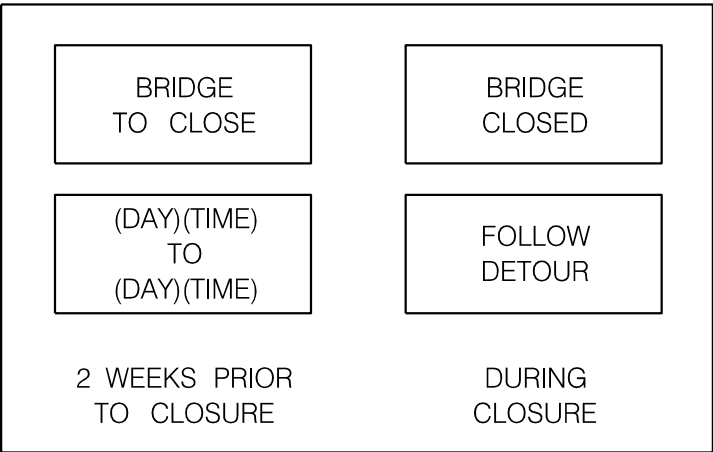
ROADWAY CLOSURE NOTIFICATION

- A. A PRESS RELEASE FOR THE PROJECT CLOSURE IS TO BE SENT TO VIVIAN LAXTON AT VLAXTON@FREDERICKCOUNTYMD.GOV AND JOHN MONGAN AT JMONGAN@FREDERICKCOUNTYMD.GOV AT LEAST 4 WEEKS IN ADVANCE OF THE ROAD CLOSURE. THE MDOT SHA WILL ISSUE THE OFFICIAL PRESS RELEASE WHICH THE CONTRACTOR MUST FORWARD AS NOTIFICATION TO THE FOLLOWING AGENCIES AT LEAST TWO WEEKS IN ADVANCE OF THE ROAD CLOSURE:

IN ADDITION TO PROVIDING ADVANCE NOTICE, CALL THE FREDERICK COUNTY EMERGENCY SERVICES AT 301-600-1294 WHEN THE ROAD IS ACTUALLY CLOSED.

- FREDERICK COUNTY SCHOOL TRANSPORTATION DIVISION
A. CONTACT MARK MISHLER
B. 301-600-6742
C. MMISHLER@FREDERICKCOUNTYMD.GOV
- FREDERICK COUNTY EMERGENCY COMMUNICATIONS CENTER
A. CALL 301-600-4015 AND ASK TO SPEAK TO THE SUPERVISOR ON DUTY
B. EMAIL – SEND TO EM@FREDERICKCOUNTYMD.GOV
- FREDERICK COUNTY FIRE AND RESCUE SERVICES DIVISION
A. CONTACT MR. THOMAS COE
B. 301-600-1780
C. TCOE@FREDERICKCOUNTYMD.GOV
- MARYLAND STATE POLICE
A. CONTACT LIEUTENANT STEPHAN JOHNSON, EMAIL STEPHAN.JOHNSON@MARYLAND.GOV AND DON BEADS, DON.BEADS@MARYLAND.GOV
B. AND CONTACT DUTY OFFICER (VARIES BY SHIFT)
C. 301-600-4150 (MSP MAIN NUMBER)
- FREDERICK COUNTY SHERIFF'S OFFICE
A. CONTACT NATHAN RECTOR, TRAFFIC UNIT SUPERVISOR AND SERGEANT IRA REDMAN
B. 301-600-6490
C. NRECTOR@FREDERICKCOUNTYMD.GOV AND IREDMAN1@FREDERICKCOUNTYMD.GOV
- FREDERICK COUNTY DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
A. CONTACT BRET FOUCHE, DEPARTMENT HEAD
B. 301-600-2222
C. BFOUCHE@FREDERICKCOUNTYMD.GOV
- FREDERICK COUNTY PUBLIC INFORMATION OFFICE
A. CONTACT VIVIAN LAXTON AND JOHN MONGAN
B. 301-600-1315 (VIVIAN); 301-600-6004
C. VLAXTON@FREDERICKCOUNTYMD.GOV AND JMONGAN@FREDERICKCOUNTYMD.GOV
- FREDERICK COUNTY OFFICE OF HIGHWAY OPERATIONS
A. CONTACT MIKE RAMSBURG, SUPERINTENDENT
B. 301-600-1564; 301-600-2268 (MOBILE)
C. MRAMSBURG@FREDERICKCOUNTYMD.GOV
- MDOT SHA D7 MAINTENANCE
A. CONTACT CHRIS LOOKINGBILL (ADE-MAINTENANCE) AND KENNY KARLHEIM
B. 301-624-8100 (SHA D7 MAIN NUMBER); 301-624-8106 (CHRIS L.); 301-624-8251 (KENNY)
C. CLOOKINGBILL@MDOT.MARYLAND.GOV AND KARLHEIM@MDOT.MARYLAND.GOV
- MDOT SHA D7 TRAFFIC DIVISION
A. CONTACT CHRIS RANKEN (ADE-T) AND SAMUEL DELAURENCE
B. 301-624-8100 (SHA D7 MAIN NUMBER); 301-624-8141 (CHRIS R.); 302-624-8150 (SAM D.)
C. CRANKEN@MDOT.MARYLAND.GOV AND SDELAURENCE@MDOT.MARYLAND.GOV

DETOUR PVMS DISPLAYS



MT-01

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

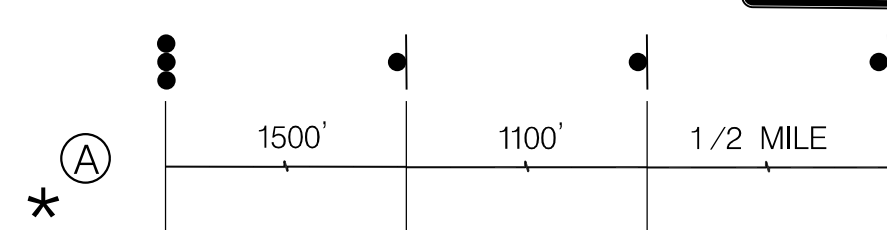
REHABILITATION TO BRIDGE NO.
F05-03 ON SIXES BRIDGE ROAD
OVER MONOCACY RIVER

MAINTENANCE OF TRAFFIC
GENERAL NOTES

DATE: OCTOBER 2024 SCALE: NTS

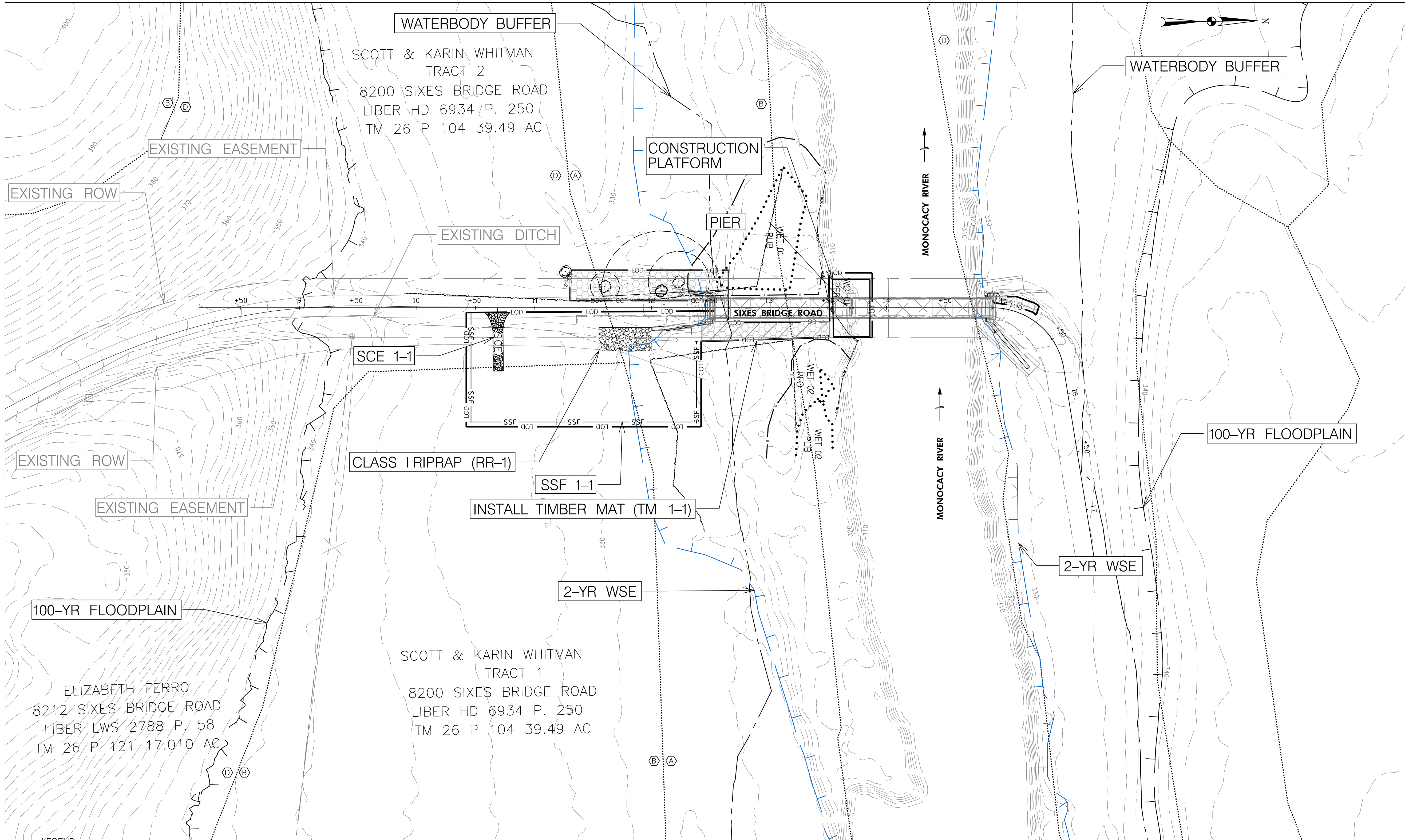
FREDERICK COUNTY PROJECT NO.: C6018.6018.01 DWG. 2 OF 21





PLOTTED: 10/8/2024
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- LEGEND
- EXISTING CONTOUR
 - EXISTING RIGHT OF WAY
 - PROPERTY LINE
 - EXISTING FENCE
 - LOD LIMIT OF DISTURBANCE (LOD)
 - SSF SUPER SILT FENCE (SSF)
 - EXISTING DITCH
 - SOIL BOUNDARY
 - 100-YR FLOODPLAIN
 - 2-YR WATER SURFACE ELEVATION (WSE)
 - SAME DAY STABILIZATION SHADING (SDS)
 - TIMBER MAT
 - WATERBODY BUFFER
 - WETLAND BUFFER
 - WETLAND BOUNDARY
 - WUS WATERS OF THE US (WUS)

SUPER SILT FENCE (SSF)		
SSF 1-1	354 LF	SIXES BRIDGE ROAD STA.10+46 TO STA.12+38, RT.

CLASS 1 RIPRAP (RR-1)		
RR 1-1	100 SY	SIXES BRIDGE ROAD STA.11+55 TO STA.12+01, RT.

STABILIZED CONSTRUCTION ENTRANCE (SCE)		
SCE 1-1	1 EA.	SIXES BRIDGE ROAD STA.10+69, RT.

CLASS 1 RIPRAP		
RR 1-1	100 SY	SIXES BRIDGE ROAD STA.11+55 TO STA.12+01, RT.

TIMBER MAT		
TM 1-1	1,763 SF	SIXES BRIDGE ROAD STA.12+42 TO STA.12+52, RT.

NOTES:

1. ALL PIER WORK SHALL BE PERFORMED USING A CONSTRUCTION WORK PLATFORM AROUND THE PIER ABOVE THE NORMAL WATER LEVEL.

2. THE 2-YEAR WSE AND 100-YEAR FLOODPLAIN LINES ARE SHOWN ON THE PLAN. NO EQUIPMENT SHALL BE LEFT AT THE END OF WORK DAY AS THE STREAM LEVEL RISES ABOVE THE NORMAL WATER LEVEL.

3. CONTRACTOR TO REMOVE THE TIMBER MATTING FOR THE ACCESS PATH TO PIER AT THE END OF EACH WORK DAY AS THE STREAM LEVEL RISES ABOVE THE NORMAL WATER LEVEL.

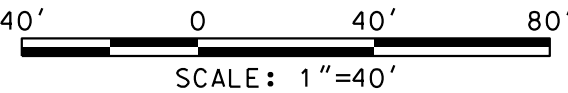
FREDERICK COUNTY SOIL CONSERVATION
EROSION AND SEDIMENT CONTROL PLAN APPROVAL

DISTRICT MANAGER OR DESIGNEE

DATE:

PLAN IS VALID FOR 2 YEARS FROM DATE OF APPROVAL

SCD APPROVAL FOR SEDIMENT AND EROSION CONTROL IS IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.



NOTE: ALL CONTOURS ARE GIS CONTOURS. CONTRACTORS TO VERIFY ELEVATIONS IN FIELD.



ES-01

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

REHABILITATION TO BRIDGE NO. F05-03 ON SIXES BRIDGE ROAD OVER MONOCACY RIVER
EROSION AND SEDIMENT CONTROL PLAN

DATE: OCTOBER 2024
FREDERICK COUNTY PROJECT NO.: C6018.6018.01

SCALE:

DWG. 4 OF 21

EROSION & SEDIMENT CONTROL GENERAL NOTES:

1. ALL SOIL EROSIONSEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE "2011 MARYLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" AND THE PROVISIONS OF THE APPROVED PLAN.
2. ALL GRADING AND STABILIZATION SHALL COMPLY WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL SECTION B – GRADING AND STABILIZATION" AND THE PROVISIONS OF THE APPROVED PLAN.
3. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES (BMP'S) ARE TO BE CONSTRUCTED AND/OR INSTALLED PRIOR TO OR AT THE INITIATION OF GRADING IN ACCORDANCE WITH "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND THE APPROVED PLAN.
4. A GRADING UNIT IS THE MAXIMUM CONTIGUOUS AREA ALLOWED TO BE GRADED AT A GIVEN TIME AND IS LIMITED TO 20 ACRES.WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE SEDIMENT CONTROL INSPECTOR (APPROVAL AUTHORITY).UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE APPROVAL AUTHORITY,NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.
5. FOR INITIAL SOIL DISTRUBANCE OR RE-DISTURBANCE,TEMPRORARY OR PERMANENT STABALIZATION MUST BE COMPLETED WITHIN:

A) THREE (3) CALENDER DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES,SWALES, DITCHES,PERIMETER SLOPES,AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND

B) SEVEN (7) CALENDER DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
6. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 7 DAY STABALIZATION REQUIREMENT, AS WELL AS STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION (AS APPLICABLE)
7. ALL CONSTRUCTED CHANNELS AND SWALES SHALL HAVE SPECIFIED TREATMENT INSTALLED TO THE DESIGN FLOW DEPTH COMPLETED DOWNSTREAM TO UPSTREAM AS CONSTRUCTION PROGRESSES.AN INSTALLATION DETAIL SHALL BE SHOWN ON THE PLANS.
8. ALL STORM DRAIN AND SANITARY SEWER LINES NOT IN PAVED AREAS ARE TO BE SEEDED AND MULCHED WITHIN 3 DAYS OF INITIAL BACKFILL UNLESS OTHERWISE SPECIFIED ON PLANS.
9. ELECTRIC POWER,TELEPHONE,AND GAS LINES ARE TO BE COMPACTED,SEEDED,AND MULCHED WITHIN 3 DAYS AFTER INITIAL BACKFILL UNLESS OTHERWISE SPECIFIED ON PLANS.
10. NO SLOPE SHALL BE GREATER THAN 2:1
11. DURING CONSTRUCTION,ALL SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED AFTER EACH RAINFALL AND REPAIRED IF NECESSARY.SEDIMENT TO BE REMOVED TO A SUITABLE DISPOSAL AREA AND STABILIZED WITH PERMANENT VEGETATIVE COVER.
12. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SEDIMENT AND EROSION CONTROL MEASURES UNTIL DISTURBED AREAS ARE STABILIZED.
13. AFTER FINE GRADING,ALL DISTURBED AREAS ARE TO BE PERMANENTLY SEEDED AND MULCHED IN ACCORDANCE WITH PERMANENT SEEDING NOTES SHOWN HEREON.
14. ALL SOIL AND/OR BORROW MUST COME FROM AND GO TO A SITE WITH AN APPROVED EROSION AND SEDIMENT CONTROL PLAN.
15. CONTRACTOR TO ONLY OPEN UP LENGTH OF TRENCH THAT CAN BE CONSTRUCTED AND BACKFILLED IN ONE WORKING DAY IN PAVED AREAS.
16. CONTRACTOR TO PLACE EXCAVATED MATERIALS IN A DUMP TRUCK AND HAUL TO AN APPROVED LOCATION FOR WASTE MATERIALS IN PAVED AREAS.
17. IN AREAS WHERE THE CONSTRUCTION TAKES PLACE OUTSIDE OF THE EXISTING ROADBED,CONTRACTOR TO INSTALL SILT FENCE ALONG THE DOWNHILL SIDE OF THE TRENCH ON THE UPHILL SIDE.
18. IF DEWATERING OF THE TRENCH IS REQUIRED,CONTRACTOR TO PUMP WATER TO AN APPROVED DEWATERING DEVICE.
19. CONTRACOR TO SWEEP STREETS OF ANY DEBRIS OR SEDIMENT CAUSED BY CONSTRUCTION OPERATIONS AND DISPOSE OF AT AN APPROVED LOCATION.
20. CONTRACTOR TO STABILIZE ALL DISTURBED AREAS WITH SEED & MULCH OR APPROPRIATE STREET REPAIR.

TEMPORARY SEEDING NOTES:

GENERAL

1. PLANTING SHORT TERM VEGETATION TO STABILIZED,CLEARED OR GRADED AREAS SUBJECT TO EROSION FOR A PERIOD OF 7 DAYS OR MORE.
2. STANDARDS;TEMPORARY SEEDING SHALL CONFORM TO ALL REQUIREMENTS OF "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION SEDIMENT CONTROL" PUBLISHED JOINTLY BY THE WATER RESOURCES ADMINISTRATION,THE NATURAL RESOURCES CONSERVATION SERVICE,AND THE STATE SOIL CONSERVATION COMMITTEE.
3. SEDIMENT & EROSION CONTROL:ALL PERIMETER CONTROL MUST BE STABILIZED IN 3 DAYS. ALL INTERIOR CONTROLS MUST BE STABILIZED IN 7 DAYS

SPECIFICATIONS

1. SITE PREPARATIONS:

A. PRIOR TO SEEDING INSTALL ALL REQUIRED SEDIMENT AND EROSION CONTROL MEASURES.

B. FINAL GRADING NOT REQUIRED FOR TEMPORARY SEEDING.
2. SOIL AMENDMENTS:

A. FERTILIZER SHALL BE APPLIED AT THE RATE OF 800 LBSACRES USING 10-10-10 OR EQUIVALENT

B. ACID SOILS SHALL BE LIMED.
3. SEEDBED PREPARATION:

A. SOIL SHALL BE LOOSENED TO A DEPTH OF 3 INCHES BY RAKING,DISKING,OR OTHER ACCEPTABLE MEANS PRIOR TO SEEDING.
4. SEEDING:

A. SELECT A MIXTURE FROM TABLE B.1 IN THE STANDARD SPECIFICATIONS.

B. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER DRILL,CULTIPACKER OR HYDRO SEEDER.
5. MULCHING:

A. MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING.MULCH MATERIALS AND APPLICATIONS SHALL CONFROM TO THE STANDARD SPECIFICATIONS.

PERMANENT SEEDING NOTES:

GENERAL

1. PLANTING PERMANENT, LONG LIVED VEGETATIVE COVER ON GRADED OR CLEARED AREAS.
2. STANDARDS;PERMANENT SEEDING SHALL CONFORM TO ALL REQUIREMENTS OF "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION SEDIMENT CONTROL" PUBLISHED JOINTLY BY THE WATER RESOURCES ADMINISTRATION,THE NATURAL RESOURCES CONSERVATION SERVICE,AND THE STATE SOIL CONSERVATION COMMITTEE.

SPECIFICATIONS

1. SITE PREPARATIONS:

A. PRIOR TO SEEDING INSTALL ALL REQUIRED SEDIMENT AND EROSION CONTROL MEASURES.

B. FINAL GRADING IS REQUIRED FOR PERMANENT SEEDING.
2. SOIL AMENDMENTS:

A. FERTILIZER SHALL BE APPLIED AT THE RATE OF 800 LBSACRES USING 10-10-10 OR EQUIVALENT

B. ACID SOILS SHALL BE LIMED.
3. SEEDBED PREPARATION:

A. SOIL SHALL BE LOOSENED TO A DEPTH OF 3 INCHES BY RAKING,DISKING,OR OTHER ACCEPTABLE MEANS PRIOR TO SEEDING.

B. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER DRILL,CULTIPACKER OR HYDRO SEEDER (SLURRY INCLUDES SEED AND FERTILIZER ON A FIRM,MOIST SEEDED.) MAXIMUM SEEDING DEPTH SHOULD BE 1/4 INCH ON CLAYEY SOILS AND 1/2 INCH ON SANDY SOILS,WHEN USING OTHER THAN HYDROSEEDER METHOD OF APPLICATION.
4. SEEDING:

A. SELECT A MIXTURE FROM TABLE B.3 IN THE STANDARD SPECIFICATIONS.

B. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER DRILL,CULTIPACKER OR HYDRO SEEDER.
5. MULCHING:

A. MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING.MULCH MATERIALS AND APPLICATIONS SHALL CONFORM TO THE STANDARD SPECIFICATIONS.

NOTE: IF HYDROSEEDING IS USED AND THE SEED AND FERTILIZER IS MIXED,THEY WILL BE MIXED ON SITE AND THE SEEDING SHALL BE IMMEDIATE WITHOUT INTERRUPTION.

SEQUENCE OF CONSTRUCTION

1. OBTAIN ALL REQUIRED PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.CONTRACTOR SHALL CONTACT MISS UTILITY AT 800-257-7777, FREDERICK COUNTY DIVISION OF PUBLIC WORKS AT 301-600-1129,AND SOIL CONSERVATION DISTRICT AT 301-695-2803 EXT.3 TO SET UP A PRE- CONSTRUCTION MEETING AT LEAST FIVE (5) DAYS PRIOR TO BEGINNING CONSTRUCTION.THE LIMITS OF DISTRUBANCE SHALL BE STAKED IN THE FIELD PRIOR TO THE PRE-CONSTRUCTION MEETING. ADDITIONAL SEDIMENT CONTROL MEASURES MAY BE REQUIRED AS A RESULT OF THE PRE- CONSTRUCTION MEETING.A COPY OF THE NOTICE OF INTENT WILL NEED TO BE RECEIVED FROM MDE PRIOR TO THE START OF CONSTRUCTION.
2. ONCE THE NOTICE OF INTENT IS OBTAINED,CLEAR AND GRUB FOR THE INSTALLATION OF ALL ESC CONTROLS AND DEVICES.
3. INSTALL STABILIZED CONSTRUCTION ENTRANCE (SCE 1-1) AND SUPER SILT FENCE (SSF 1-1) FOR THE PROJECT SITE.
4. ONCE SEDIMENT CONTROLS HAVE BEEN INSTALLED, CONTACT THE INSPECTOR FOR APPROVAL OF SEDIMENT CONTROL INSTALLATION PRIOR TO COMMENCING WORK. INSPECTIONS AND PERMITS MAY REQUIRE THAT AN INSPECTION AND CERTIFICATION OF THE INSTALLATION OF SEDIMENT CONTROL ALSO BE PERFORMED BY A DESIGN PROFESSIONAL PRIOR TO CONSTRUCTION COMMENCING.
5. ONCE APPROVED,START BUILDING TEMPORARY BEAM SYSTEM BRIDGE ON BRIDGE DECK AND JACK EACH END.
6. REPLACE MASONRY AROUND PIER USING A PROPOSED CONSTRUCTION PLATFORM AROUND THE PIER ABOVE THE NORMAL WATER LEVEL.CONTRACTOR TO USE TIMBER MATTING ALONG THE ACCESS PATH TO PIER.STABILIZE THE ACCESS PATH TO PIER AT THE END OF EACH WORK DAY.NO EQUIPMENT SHALL BE LEFT AT THE END OF WORK DAY AS THE STREAM LEVEL RISES ABOVE THE NORMAL WATER LEVEL.
7. REPLACE GUIDERAIL AT SOUTH END OF BRIDGE AND ADD GUIDERAIL AT NORTH END OF BRIDGE USING SAME DAY STABILIZATION.
8. INSTALL RIPRAP ON THE SLOPE AS SHOWN ON THE PLAN.
9. AT THE CONCLUSION OF EACH WORK DAY,STABILIZE ALL DISTURBED AREAS WITHIN THE WORK AREA.
10. REPEAT STEPS 5 & 6 UNTIL ALL MASONRY WORK ALONG THE PIER IS COMPLETED.
11. ONCE ALL AREAS ARE STABILIZED AND WITH THE APPROVAL OF THE INSPECTOR,REMOVE THE SEDIMENT CONTROLS AND STABILIZE ALL AREAS DISTURBED BY THIS REMOVAL PROCESS.

SEDIMENT CONTROL/ STORM WATER MANAGEMENT REQUIRED INSPECTIONS

YOU MUST NOTIFY THE SEDIMENT CONTROL AND STORMWATER MANAGEMENT OFFICE AT 301-694-1679 BEFORE 9:00 A.M.- 24 HOURS PRIOR TO THE REQUIRED INSPECTION. FAILURE TO NOTIFY THIS OFFICE WILL RESULT IN A STOP WORK ORDER OR OTHER PENEALTIES AS OUTLINED IN FREDERICK COUNTY CODES.

*****NOTICE*****
THIS LIST IS FOR SEQUENCE OF CONSTRUCTION ONLY. THIS OFFICE ASSUMES NO RESPONSIBILITY OR LIABILITY FOR IMPROPER INSTALLATION OF ANY ITEM ON THIS CHECKLIST. THIS OFFICE RECOMMENDS THAT A PROFESSIONAL ENGINEER BE PRESENT FOR EACH OF THE REQUIRED INSPECTIONS.

TYPE OF INSPECTION	MISC. COMMENTS /INITIALS
1. PRECONSTRUCTION MEETING	
2. COMPLETION OF SEDIMENT CONVTROL MEASURE (IF USING BASIN SEE #6 BELOW)	
3. PRIOR TO MODIFICATION OR REMOVAL OF SED. CONTRL	
4. INFILTRATION SYSTEMS A. SITE READINESS PER SEQUENCE OF CONSTRUCTION B. INFILTRATION AREA, PROTECTED FROM SESIMENTATION C. DIMENSIONS D. FILTRATING MATERIAL E. FILL MATERIAL F. SIZE, PLACEMENT, TYPE OF PIPING G. OBSERVATION WELL H. COVER/STABILIZATION	
5. OPEN CHANNEL FLOW ATTENUATION A. SITE READINESS PER SEQUENCE OF CONSTRUCTION B. CROSS SECTION CONFORMANCE C. MATERIAL (TYPE/SIZE) D. STABILIZATION	
6. RETENTION/RETENTION STRUCTURES (BASIN/PONDS) A. SUBGRADE PREPARATION 1. CORE TRENCH 2. SUITABLE MATERIAL/ COMPACTION B. EMBANKMENT CONSTRUCTION 1. SUITABLE MATERIAL/COMPACTION 2. SLOPE GRADE 3. DIMENSIONS C. BARREL AND RISER ASSEMBLY 1. CORRECT MATERIAL ONSITE 2. SIZING 3. ANTI-SEEP COLLARS 4. ANTI-FLOTATION DEVICE 5. CONCRETE CRADLE (RCP ONLY) 6. INSTALLATION /BACKFILL/COMPACTION D. CONCRETE STRUCTURES 1. FOOTER DEMINSONS 2. REINFORCING MATERIAL (TYPE, SIZE, PLACEMENT) 3. WEIR POUR/MATERIAL/SLUMP TEST 4. FORM STRIP AND FINISHING E. IMPOUNDING AREA 1. LOW FLOW CHANNELS/STABILIZATION 2. DEWATERING DEVICE 3. EMERGENCY SPILLWAY 4. EXTENDED DETENTION DEVICE F. CUTFILL AREA LEVEL SPREADER, RIPRAP CHANNEL, ECT. G. VEGETATIVE STABILIZATION H. MISCELLANEOUS	

EN-01

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

REHABILITATION TO BRIDGE NO.
F05-03 ON SIXES BRIDGE ROAD
OVER MONOCACY RIVER
EROSION & SEDIMENT
CONTROL NOTES-1

DATE: OCTOBER 2024 SCALE: N.T.S.

FREDERICK COUNTY PROJECT NO.: C6018.6018.01 DWG. 5 OF 21

FREDERICK COUNTY SOIL CONSERVATION
EROSION AND SEDIMENT CONTROL PLAN APPROVAL

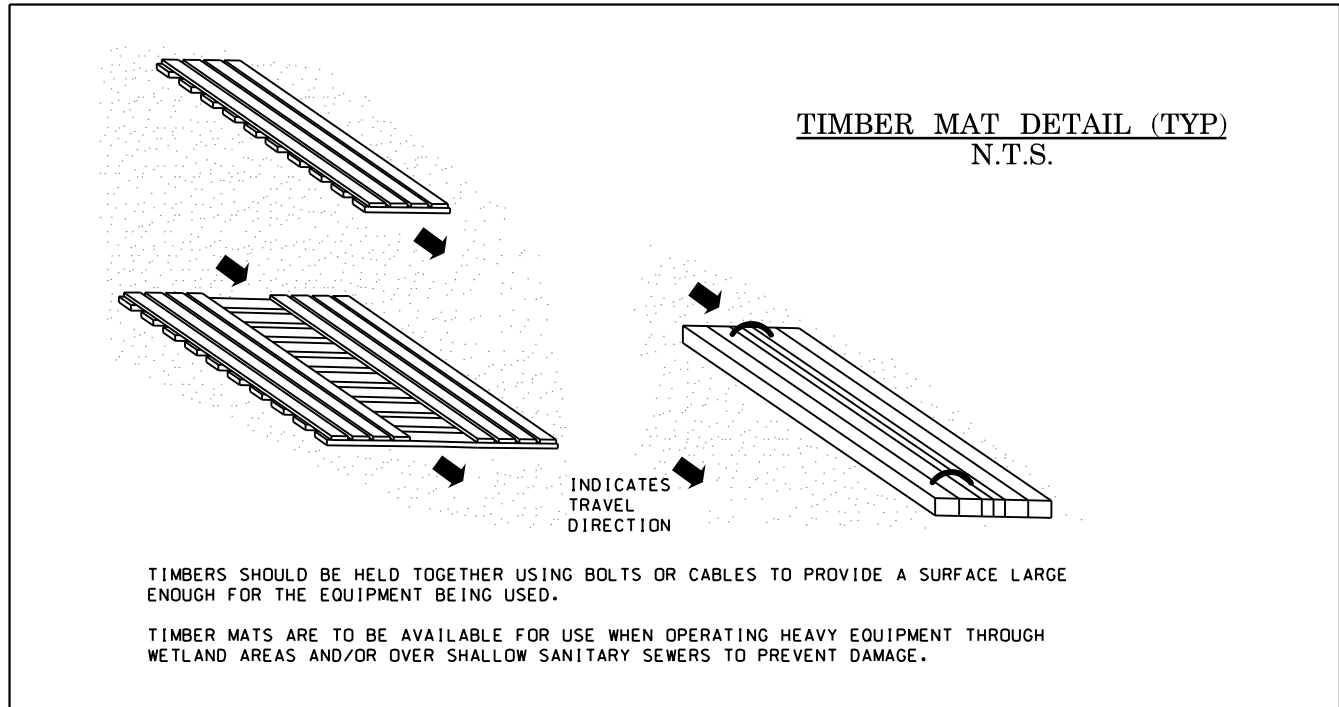
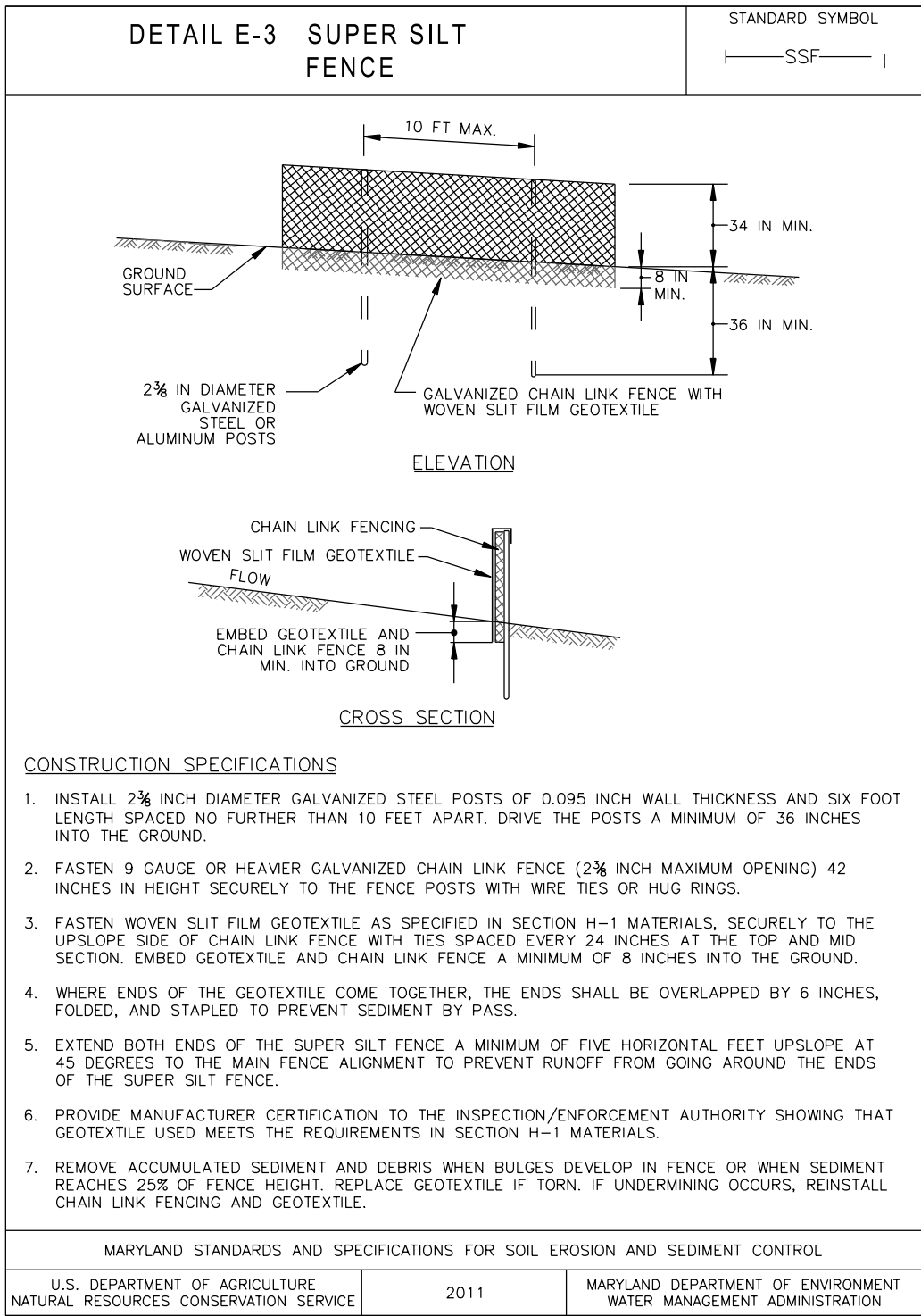
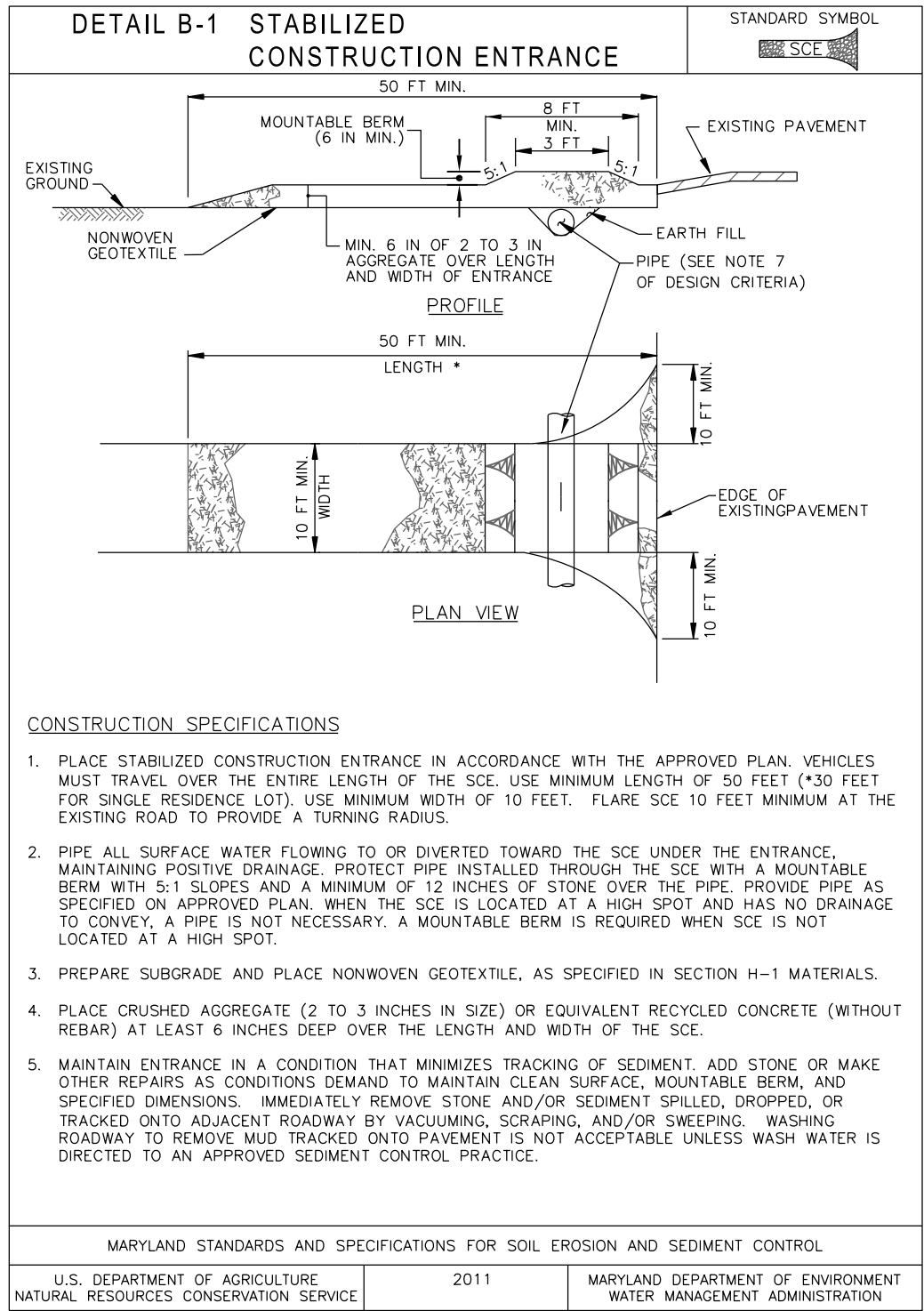
DISTRICT MANAGER OR DESIGNEE

DATE: PLAN IS VALID FOR 2 YEARS FROM DATE OF APPROVAL

SCD APPROVAL FOR SEDIMENT AND EROSION CONTROL IS IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.



LEGEND			
AT-GRADE INLET PROTECTION		PLUNGE POOL	
BAFFLE BOARDS		PORTABLE SEDIMENT TANK	
BENCHING		REMOVABLE PUMPING STATION	
CLEAR WATER DIVERSION PIPE	 <small>DESIGNATION CWD-12 REFERS TO 12 INCH CLEAR WATER DIVERSION.</small>	RIPRAP INFLOW PROTECTION	
CLEAR WATER PIPE		RIPRAP OUTLET SEDIMENT TRAP ST III	
COMBINATION INLET PROTECTION		ROCK OUTLET PROTECTION I	
CONCRETE WASHOUT STRUCTURE		ROCK OUTLET PROTECTION II	
CURB INLET PROTECTION		ROCK OUTLET PROTECTION III	
DIVERSION FENCE		SILT FENCE	
EARTH DIKE	 <small>PLACE DESIGNATION (e.g. A-1) ON FLOW CHANNEL SIDE OF DIKE.</small>	SILT FENCE ON PAVEMENT	
EMERGENCY SPILLWAY		STABILIZED CONSTRUCTION ENTRANCE	
FILTER BAG		STANDARD INLET PROTECTION	
FILTER BERM	 	STONE CHECK DAM	
FILTER LOG	 <small>DESIGNATION FL-18 REFERS TO 18 INCH DIAMETER FILTER LOG.</small>	STONE/RIPRAP OUTLET SEDIMENT TRAP ST II	
GABION INFLOW PROTECTION		SUBSURFACE DRAINS	
GABION INLET PROTECTION		SUMP PIT	
HORIZONTAL DRAW-DOWN DEVICE		SUPER SILT FENCE	
LIMIT OF DISTURBANCE		TEMPORARY ACCESS BRIDGE	
MEDIAN INLET PROTECTION		TEMPORARY ACCESS CULVERT	
MEDIAN SUMP INLET PROTECTION		TEMPORARY ASPHALT BERM	
MOUNTABLE BERM		TEMPORARY BARRIER DIVERSION	
PERIMETER DIKE/SWALE		TEMPORARY GABION OUTLET STRUCTURE	
PERMANENT SOIL STABILIZATION MATTING CHANNEL	 <small>lb/ft² (INCLUDE SHEAR STRESS)</small>	TEMPORARY SOIL STABILIZATION MATTING CHANNEL	 <small>lb/ft² (INCLUDE SHEAR STRESS)</small>
PERMANENT SOIL STABILIZATION MATTING SLOPE	 <small>lb/ft² (INCLUDE SHEAR STRESS)</small>	TEMPORARY SOIL STABILIZATION MATTING SLOPE	 <small>lb/ft² (INCLUDE SHEAR STRESS)</small>
PIPE OUTLET SEDIMENT TRAP ST I		TEMPORARY STONE OUTLET STRUCTURE	
PIPE SLOPE DRAIN	 <small>DESIGNATION PSD-12 REFERS TO 12 IN PIPE SLOPE DRAIN.</small>	TEMPORARY SWALE	
VERTICAL DRAW-DOWN DEVICE		WASH RACK OPTION	



EN-02

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

**REHABILITATION TO BRIDGE NO.
F05-03 ON SIXES BRIDGE ROAD
OVER MONOCACY RIVER
EROSION & SEDIMENT CONTROL
NOTES-2**

DATE: OCTOBER 2024

SCALE: N.T.S.

FREDERICK COUNTY PROJECT NO.:
C6018.6018.01

DWG. 6 OF 21

FREDERICK COUNTY SOIL CONSERVATION
EROSION AND SEDIMENT CONTROL PLAN APPROVAL

DISTRICT MANAGER OR DESIGNNEE

DATE:

PLAN IS VALID FOR 2 YEARS FROM DATE
OF APPROVAL

SCD APPROVAL FOR SEDIMENT AND EROSION
CONTROL IS IN ACCORDANCE WITH THE 2011
MARYLAND STANDARDS AND SPECIFICATIONS
FOR SOIL EROSION AND SEDIMENT CONTROL
AND IS CONTINGENT UPON ISSUANCE OF ALL
APPLICABLE REGULATORY PERMITS.



BEST MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS AND 100-YEAR FLOODPLAINS

- 1) NO EXCESS FILL, CONSTRUCTION MATERIAL OR DEBRIS SHALL BE STOCKPILED OR STORED IN NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
- 2) PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
- 3) DO NOT USE THE EXCAVATED MATERIAL AS BACKFILL IF IT CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE. IF ADDITIONAL BACKFILL IS REQUIRED, USE CLEAN MATERIAL FREE OF WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE.
- 4) PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY OPERATE THE EQUIPMENT TO PREVENT DAMAGE TO NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
- 5) REPAIR AND MAINTAIN ANY SERVICEABLE STRUCTURE OR FILL SO THERE IS NO PERMANENT LOSS OF NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, OR WATERWAYS, OR PERMANENT MODIFICATION OF THE 100-YEAR FLOODPLAIN IN EXCESS OF THAT LOST UNDER THE ORIGINALLY AUTHORIZED STRUCTURE OR FILL.
- 6) RECTIFY ANY NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, OR 100-YEAR FLOODPLAIN TEMPORARILY IMPACTED BY ANY CONSTRUCTION.
- 7) ALL STABILIZATION IN THE NONTIDAL WETLAND AND NONTIDAL WETLAND BUFFER SHALL CONSIST OF THE FOLLOWING SPECIES: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM), MILLET (SETARIA ITALICA), BARLEY (HORDEUM SP.), OATS (UNIOLA SP.), AND/OR RYE (SECALE CEREALE). THESE SPECIES WILL ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF NATURAL WETLAND SPECIES. OTHER NON-PERSISTENT VEGETATION MAY BE ACCEPTABLE, BUT MUST BE APPROVED BY THE NONTIDAL WETLANDS AND WATERWAYS DIVISION. KENTUCKY 31 FESCUE SHALL NOT BE UTILIZED IN WETLAND OR BUFFER AREAS. THE AREA SHOULD BE SEEDED AND MULCHED TO REDUCE EROSION AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
- 8) AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST-CONSTRUCTION GRADES AND ELEVATIONS THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS IN TEMPORARILY IMPACTED AREAS.
- 9) TO PROTECT AQUATIC SPECIES, IN-STREAM WORK IS PROHIBITED AS DETERMINED BY THE CLASSIFICATION OF THE STREAM:

USE IV WATERS: IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD
MARCH 1 THROUGH MAY 31, INCLUSIVE, DURING ANY YEAR.
- 10) STORMWATER RUNOFF FROM IMPERVIOUS SURFACES SHALL BE CONTROLLED TO PREVENT THE WASHING OF DEBRIS INTO THE WATERWAY.
- 11) CULVERTS SHALL BE CONSTRUCTED AND ANY RIPRAP PLACED SO AS NOT TO OBSTRUCT THE MOVEMENT OF AQUATIC SPECIES, UNLESS THE PURPOSE OF THE ACTIVITY IS TO IMPOUND WATER.

BEST MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS AND 100-YEAR FLOODPLAINS

- 1) VALIDITY: AUTHORIZATION IS VALID ONLY FOR USE BY AUTHORIZED PERSON. AUTHORIZATION MAY BE TRANSFERRED ONLY WITH PRIOR WRITTEN APPROVAL OF THE ADMINISTRATION. IN THE EVENT OF TRANSFER, TRANSFEREE AGREES TO COMPLY WITH ALL TERMS AND CONDITIONS OF AUTHORIZATION.
- 2) INITIATION OF WORK, MODIFICATIONS AND EXTENSION OF TERM: AUTHORIZED PERSON SHALL INITIATE AUTHORIZED ACTIVITIES IN WATERWAYS, INCLUDING STREAMS, AND THE 100-YEAR FLOODPLAIN, WITHIN TWO (2) YEARS OF THE EFFECTIVE DATE OF THIS AUTHORIZATION OR THE AUTHORIZATION SHALL EXPIRE. [ANNOTATED CODE OF MARYLAND, ENVIRONMENT ARTICLE 5-510(A)-(B) AND CODE OF MARYLAND REGULATIONS 26.17.04.12]. AUTHORIZED PERSON MAY SUBMIT WRITTEN REQUESTS TO THE ADMINISTRATION FOR (A) EXTENSION OF THE PERIOD FOR INITIATION OF WORK, (B) MODIFICATION OF AUTHORIZATION, INCLUDING THE APPROVED PLAN, OR, (C) NOT LATER THAN 45 DAYS PRIOR TO EXPIRATION DATE, AN EXTENSION OF TERM. REQUESTS FOR MODIFICATION SHALL BE IN ACCORDANCE WITH APPLICABLE REGULATIONS AND SHALL STATE REASONS FOR CHANGES, AND SHALL INDICATE THE IMPACTS ON NONTIDAL WETLANDS, STREAMS, AND THE FLOODPLAIN, AS APPLICABLE. THE ADMINISTRATION MAY GRANT A REQUEST AT ITS SOLE DISCRETION. [ANNOTATED CODE OF MARYLAND, ENVIRONMENT ARTICLE 5-510(C), AND CODE OF MARYLAND REGULATIONS 26.17.04.12, AND ANNOTATED CODE OF MARYLAND, ENVIRONMENT ARTICLE 5-907 AND CODE OF MARYLAND REGULATIONS 26.23.02.07).
- 3) RESPONSIBILITY AND COMPLIANCE: AUTHORIZED PERSON IS FULLY RESPONSIBLE FOR ALL WORK PERFORMED AND ACTIVITIES AUTHORIZED BY THIS AUTHORIZATION SHALL BE PERFORMED IN COMPLIANCE WITH THIS AUTHORIZATION AND APPROVED PLAN. AUTHORIZED PERSON AGREES THAT A COPY OF THE AUTHORIZATION AND APPROVED PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE AND PROVIDED TO ITS EMPLOYEES, AGENTS AND CONTRACTORS. A PERSON (INCLUDING AUTHORIZED PERSON, ITS EMPLOYEES, AGENTS OR CONTRACTORS) WHO VIOLATES OR FAILS TO COMPLY WITH THE TERMS AND CONDITIONS OF THIS AUTHORIZATION, APPROVED PLAN OR AN ADMINISTRATIVE ORDER MAY BE SUBJECT TO PENALTIES IN ACCORDANCE WITH *5-514 AND *5-911, DEPARTMENT OF THE ENVIRONMENT ARTICLE, ANNOTATED CODE OF MARYLAND (2007 REPLACEMENT VOLUME).
- 4) FAILURE TO COMPLY: IF AUTHORIZED PERSON, ITS EMPLOYEES, AGENTS OR CONTRACTORS FAIL TO COMPLY WITH THIS AUTHORIZATION OR APPROVED PLAN, THE ADMINISTRATION MAY, IN ITS DISCRETION, ISSUE AN ADMINISTRATIVE ORDER REQUIRING AUTHORIZED PERSON, ITS EMPLOYEES, AGENTS AND CONTRACTORS TO CEASE AND DESIST ANY ACTIVITIES WHICH VIOLATE THIS AUTHORIZATION, OR THE ADMINISTRATION MAY TAKE ANY OTHER ENFORCEMENT ACTION AVAILABLE TO IT BY LAW, INCLUDING FILING CIVIL OR CRIMINAL CHARGES.
- 5) SUSPENSION OR REVOCATION: AUTHORIZATION MAY BE SUSPENDED OR REVOKED BY THE ADMINISTRATION, AFTER NOTICE OF OPPORTUNITY FOR A HEARING, IF AUTHORIZED PERSON: (A) SUBMITS FALSE OR INACCURATE INFORMATION IN PERMIT APPLICATION OR SUBSEQUENTLY REQUIRED SUBMITTALS; (B) DEVIATES FROM THE APPROVED PLAN, SPECIFICATIONS, TERMS AND CONDITIONS; (C) VIOLATES, OR IS ABOUT TO VIOLATE TERMS AND CONDITIONS OF THIS AUTHORIZATION; (D) VIOLATES, OR IS ABOUT TO VIOLATE, ANY REGULATION PROMULGATED PURSUANT TO TITLE 5, DEPARTMENT OF THE ENVIRONMENT ARTICLE, ANNOTATED CODE OF MARYLAND AS AMENDED; (E) FAILS TO ALLOW AUTHORIZED REPRESENTATIVES OF THE ADMINISTRATION TO ENTER THE SITE OF AUTHORIZED ACTIVITIES AT ANY REASONABLE TIME TO CONDUCT INSPECTIONS AND EVALUATIONS; (F) FAILS TO COMPLY WITH THE REQUIREMENTS OF AN ADMINISTRATIVE ACTION OR ORDER ISSUED BY THE ADMINISTRATION; OR (G) DOES NOT HAVE VESTED RIGHTS UNDER THIS AUTHORIZATION AND NEW INFORMATION, CHANGES IN SITE CONDITIONS, OR AMENDED REGULATORY REQUIREMENTS NECESSITATE REVOCATION OR SUSPENSION.

- 6) OTHER APPROVALS: AUTHORIZATION DOES NOT AUTHORIZE ANY INJURY TO PRIVATE PROPERTY, ANY INVASION OF RIGHTS, OR ANY INFRINGEMENT OF FEDERAL, STATE OR LOCAL LAWS OR REGULATIONS, NOR DOES IT OBTUATE THE NEED TO OBTAIN REQUIRED AUTHORIZATIONS OR APPROVALS FROM OTHER STATE, FEDERAL OR LOCAL AGENCIES AS REQUIRED BY LAW.
- 7) SITE ACCESS: AUTHORIZED PERSON SHALL ALLOW AUTHORIZED REPRESENTATIVES OF THE ADMINISTRATION ACCESS TO THE SITE OF AUTHORIZED ACTIVITIES DURING NORMAL BUSINESS HOURS TO CONDUCT INSPECTIONS AND EVALUATIONS NECESSARY TO ASSURE COMPLIANCE WITH THIS AUTHORIZATION. AUTHORIZED PERSON SHALL PROVIDE NECESSARY ASSISTANCE TO EFFECTIVELY AND SAFELY CONDUCT SUCH INSPECTIONS AND EVALUATIONS.
- 8) INSPECTION NOTIFICATION: AUTHORIZED PERSON SHALL NOTIFY THE ADMINISTRATION'S COMPLIANCE PROGRAM AT LEAST FIVE (5) DAYS BEFORE STARTING AUTHORIZED ACTIVITIES AND FIVE (5) DAYS AFTER COMPLETION. FOR ALLEGANY, GARRETT, AND WASHINGTON COUNTIES, AUTHORIZED PERSON SHALL CALL 301-689-1480. FOR CARROLL, FREDERICK, HOWARD, MONTGOMERY AND PRINCE GEORGE'S COUNTIES, AUTHORIZED PERSON SHALL CALL 301-665-2850. FOR BALTIMORE CITY, ANNE ARUNDEL, BALTIMORE, CALVERT, CHARLES, HARFORD AND ST. MARY'S COUNTIES, AUTHORIZED PERSON SHALL CALL 410-537-3510. FOR CAROLINE, CECIL, DORCHESTER, KENT, QUEEN ANNE'S, SOMERSET, TALBOT, WICOMICO AND WORCESTER COUNTIES, AUTHORIZED PERSON SHALL CALL 410-901-4020. IF AUTHORIZATION IS FOR A PROJECT THAT IS PART OF A MINING SITE, PLEASE CONTACT THE LAND AND MATERIALS ADMINISTRATION'S MINING PROGRAM AT 410-537-3557 AT LEAST FIVE (5) DAYS BEFORE STARTING AUTHORIZED ACTIVITIES AND FIVE (5) DAYS AFTER COMPLETION.
- 9) SEDIMENT CONTROL: AUTHORIZED PERSON SHALL OBTAIN APPROVAL FROM THE HOWARD SOIL CONSERVATION DISTRICT FOR A GRADING AND SEDIMENT CONTROL PLAN SPECIFYING SOIL EROSION CONTROL MEASURES. THE APPROVED GRADING AND SEDIMENT CONTROL PLAN SHALL BE INCLUDED IN THE APPROVED PLAN, AND SHALL BE AVAILABLE AT THE CONSTRUCTION SITE.
- 10) BEST MANAGEMENT PRACTICES DURING CONSTRUCTION: AUTHORIZED PERSON, ITS EMPLOYEES, AGENTS AND CONTRACTORS SHALL CONDUCT AUTHORIZED ACTIVITIES IN A MANNER CONSISTENT WITH THE BEST MANAGEMENT PRACTICES SPECIFIED BY THE ADMINISTRATION.
- 11) DISPOSAL OF EXCESS: UNLESS OTHERWISE SHOWN ON THE APPROVED PLAN, ALL EXCESS FILL, SPOIL MATERIAL, DEBRIS, AND CONSTRUCTION MATERIAL SHALL BE DISPOSED OF OUTSIDE OF NONTIDAL WETLANDS, NONTIDAL WETLANDS BUFFERS, AND THE 100-YEAR FLOODPLAIN, AND IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF NONTIDAL WETLANDS.
- 12) TEMPORARY STAGING AREAS: TEMPORARY CONSTRUCTION TRAILERS OR STRUCTURES, STAGING AREAS AND STOCKPILES SHALL NOT BE LOCATED WITHIN NONTIDAL WETLANDS, NONTIDAL WETLANDS BUFFERS, OR THE 100-YEAR FLOODPLAIN UNLESS SPECIFICALLY INCLUDED ON THE APPROVED PLAN.
- 13) TEMPORARY STREAM ACCESS CROSSINGS: TEMPORARY STREAM ACCESS CROSSINGS SHALL NOT BE CONSTRUCTED OR UTILIZED UNLESS SHOWN ON THE APPROVED PLAN. IF TEMPORARY STREAM ACCESS CROSSINGS ARE DETERMINED NECESSARY PRIOR TO INITIATION OF WORK OR AT ANY TIME DURING CONSTRUCTION, AUTHORIZED PERSON, ITS EMPLOYEES, AGENTS OR CONTRACTORS SHALL SUBMIT A WRITTEN REQUEST TO THE ADMINISTRATION AND SECURE THE NECESSARY PERMITS OR APPROVALS FOR SUCH CROSSINGS BEFORE INSTALLATION OF THE CROSSINGS. TEMPORARY STREAM ACCESS CROSSINGS SHALL BE REMOVED AND THE DISTURBANCE STABILIZED PRIOR TO COMPLETION OF AUTHORIZED ACTIVITY OR WITHIN ONE (1) YEAR OF INSTALLATION.
- 14) DISCHARGE: RUNOFF OR ACCUMULATED WATER CONTAINING SEDIMENT OR OTHER SUSPENDED MATERIALS SHALL NOT BE DISCHARGED INTO WATERS OF THE STATE UNLESS TREATED BY AN APPROVED SEDIMENT CONTROL DEVICE OR STRUCTURE.
- 15) INSTREAM CONSTRUCTION PROHIBITION: TO PROTECT IMPORTANT AQUATIC SPECIES, MOTOR DRIVEN CONSTRUCTION EQUIPMENT SHALL NOT BE ALLOWED WITHIN STREAM CHANNELS UNLESS ON AUTHORIZED FORD CROSSINGS. ACTIVITIES WITHIN STREAM CHANNELS ARE PROHIBITED AS DETERMINED BY THE CLASSIFICATION OF THE STREAM (COMAR 26.08.02.08): NO INSTREAM WORK IS AUTHORIZED.
- 16) INSTREAM BLASTING: AUTHORIZED PERSON SHALL OBTAIN PRIOR WRITTEN APPROVAL FROM THE ADMINISTRATION BEFORE BLASTING OR USING EXPLOSIVES IN THE STREAM CHANNEL.
- 17) MINIMUM DISTURBANCE: ANY DISTURBANCE OF STREAM BANKS, CHANNEL BOTTOM, WETLANDS, AND WETLANDS BUFFER AUTHORIZED BY THIS AUTHORIZATION OR APPROVED PLAN SHALL BE THE MINIMUM NECESSARY TO CONDUCT PERMITTED ACTIVITIES. ALL DISTURBED AREAS SHALL BE STABILIZED VEGETATIVELY NO LATER THAN SEVEN (7) DAYS AFTER CONSTRUCTION IS COMPLETED OR IN ACCORDANCE WITH THE APPROVED GRADING OR SEDIMENT AND EROSION CONTROL PLAN.
- 18) RESTORATION OF CONSTRUCTION SITE: AUTHORIZED PERSON SHALL RESTORE THE CONSTRUCTION SITE UPON COMPLETION OF AUTHORIZED ACTIVITIES, UNDERCUTTING, MEANDERING OR DEGRADATION OF THE STREAM BANKS OR CHANNEL BOTTOM, ANY DEPOSITION OF SEDIMENT OR OTHER MATERIALS, AND ANY ALTERATION OF WETLAND VEGETATION, SOILS, OR HYDROLOGY, RESULTING DIRECTLY OR INDIRECTLY FROM CONSTRUCTION OR AUTHORIZED ACTIVITIES, SHALL BE CORRECTED BY AUTHORIZED PERSON AS DIRECTED BY THE ADMINISTRATION.

FREDERICK COUNTY SOIL CONSERVATION
EROSION AND SEDIMENT CONTROL PLAN APPROVAL

DISTRICT MANAGER OR DESIGNEE

DATE: _____

PLAN IS VALID FOR 2 YEARS FROM DATE OF APPROVAL

SCD APPROVAL FOR SEDIMENT AND EROSION CONTROL IS IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.



EN-03

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

REHABILITATION TO BRIDGE NO.
F05-03 ON SIXES BRIDGE ROAD
OVER MONOCACY RIVER
EROSION & SEDIMENT CONTROL
NOTES-3

DATE: OCTOBER 2024SCALE: N.T.S.

FREDERICK COUNTY PROJECT NO.: C6018.6018.01DWG. 7 OF 21

GENERAL NOTES

- SPECIFICATIONS:

MDOT SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JULY 2023.
- DESIGN:

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION, DATED 2020.
- SUPERSTRUCTURE LOADING:

HL-93.
- LOAD RESTRICTIONS:

THERE ARE RESTRICTIONS FOR PLACING EQUIPMENT AND MATERIALS ON EXISTING AND NEW STRUCTURE(S). REFER TO SECTION TC 6.14.
- CONCRETE:

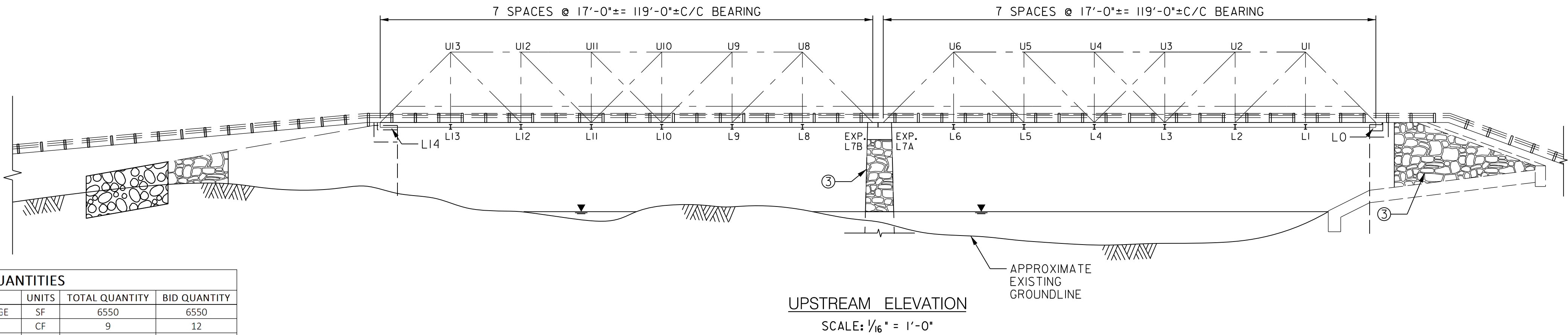
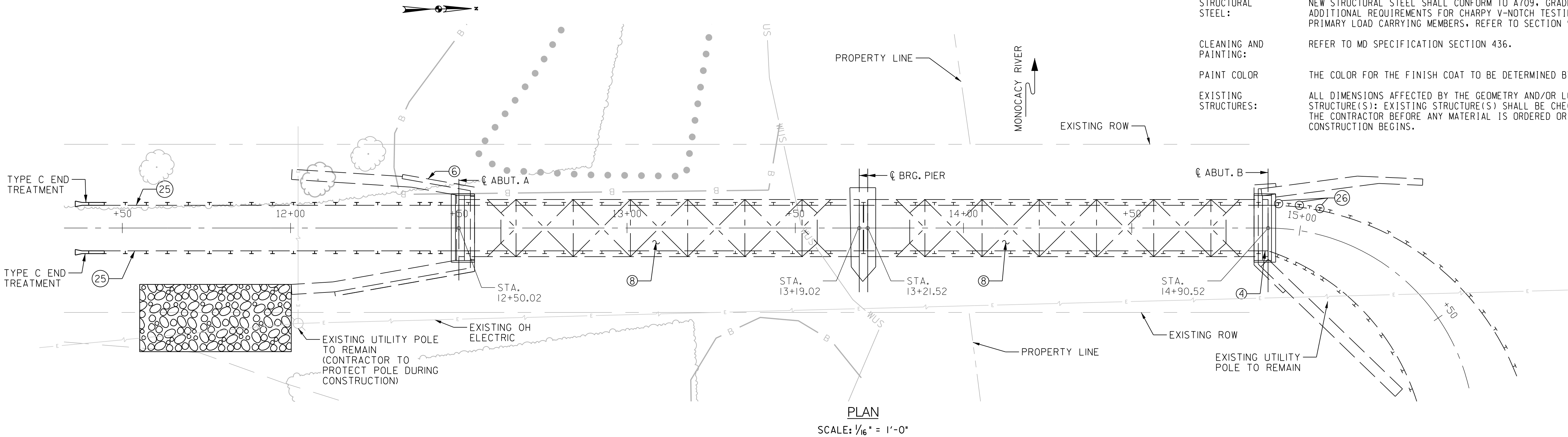
CONCRETE COMPRESSIVE STRENGTH FOR DESIGN SHALL BE:
f'c = 3,000 psi FOR ELEMENTS USING MIX NO. 3 (3500 psi).
- STRUCTURAL STEEL:

NEW STRUCTURAL STEEL SHALL CONFORM TO A709, GRADE 50, INCLUDING THE ADDITIONAL REQUIREMENTS FOR CHARPY V-NOTCH TESTING OF M270. FOR PRIMARY LOAD CARRYING MEMBERS, REFER TO SECTION 909.01.
- CLEANING AND PAINTING:

REFER TO MD SPECIFICATION SECTION 436.
- PAINT COLOR

THE COLOR FOR THE FINISH COAT TO BE DETERMINED BY FREDERICK COUNTY.
- EXISTING STRUCTURES:

ALL DIMENSIONS AFFECTED BY THE GEOMETRY AND/OR LOCATION OF THE STRUCTURE(S); EXISTING STRUCTURE(S) SHALL BE CHECKED IN THE FIELD BY THE CONTRACTOR BEFORE ANY MATERIAL IS ORDERED OR FABRICATED OR CONSTRUCTION BEGINS.



SUMMARY OF REPAIR QUANTITIES				
REPAIR TYPE	DESCRIPTION	UNITS	TOTAL QUANTITY	BID QUANTITY
1	CLEANING AND PAINTING PORTIONS OF EXISTING BRIDGE	SF	6550	6550
2	CONCRETE REPAIR	CF	9	12
3	REPAIR FAILED PARING/REPOINT MASONRY	SF	2290	2290
4	REPLACE BRIDGE RAILING	LF	12	12
5	REPLACE BOLTS	EA	108	140
6	REPAIR MASONRY WING WALL	LF	32	32
7	EPOXY PRESSURE INJECTION	LF	20	26
8	REPLACE TIMBER DECK AND CURB	SF	3890	3890
9	REPAIR END POST COVER PLATE	LBS	107	139
10	REPAIR VERTICAL MEMBER (C4x5.4)	LBS	32	42
11	REPAIR VERTICAL MEMBER (C5x6.7)	LBS	23	30
12	REPLACE DIAGONAL EYE BAR PAIR (1 3/4" x 1")	LBS	1432	1862
13	REPLACE DIAGONAL EYE BAR (1 1/4" x 1")	LBS	103	134
14	REPLACE DIAGONAL EYE BAR PAIR (1 1/8" x 1")	LBS	369	480
15	REPLACE BOTTOM CHORD EYE BAR PAIR (1 3/4" x 1")	LBS	3240	4212
16	REPLACE BOTTOM CHORD EYE BAR PAIR (2 7/8" x 1")	LBS	2661	3459
17	REPLACE BOTTOM CHORD EYE BAR PAIR (3 1/2" x 1")	LBS	1620	2106
18	REPLACE PORTAL MEMBER	LBS	296	385
19	REPLACE 3" DIAMETER PIN	LBS	225	293
20	REPLACE 2 1/2" DIAMETER PIN	LBS	735	956
21	REPLACE U-BAR	LBS	352	458
22	REPLACE GUSSET PLATE	LBS	42	55
23	REPLACE LATTICE RAILING	LBS	2350	2350
24	REPAIR GALVANIZED COATING	SF	97	126
25	REPLACE APPROACH TRAFFIC BARRIER	LF	200	200
26	STIFFEN TRAFFIC BARRIER	EA	18	18

NOTE: FOR REPAIR TYPES NOT SHOWN, SEE SHEETS S-03 THROUGH S-09.



S-01

FREDERICK COUNTY, MARYLAND

DIVISION OF PUBLIC WORKS

DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGMENT

OFFICE OF TRANSPORTATION ENGINEERING

FREDERICK COUNTY, MARYLAND

REHABILITATION TO BRIDGE NO. F05-03 ON SIXES BRIDGE ROAD OVER MONOCACY RIVER

GENERAL PLAN & ELEVATION

DATE: OCTOBER 2024

SCALE:

FREDERICK COUNTY PROJECT NO.: C6018.6018.01

DWG. 8 OF 21

REPAIR WORK SCHEDULE					
REPAIR TYPE	DESCRIPTION	UNITS	LOCATION	REPAIR NOTE	TOTAL QUANTITY
1	CLEANING AND PAINTING PORTIONS OF EXISTING BRIDGE	SF	TRUSS MEMBERS AND BEARINGS	AREAS OF CORROSION THROUGHOUT TRUSS MEMBERS, PARTICULARLY TOP CHORD AREAS WHERE NEW BOLTS HAVE BEEN INSTALLED AND AT THE BOTTOM TRUSS JOINTS; CORROSION AND PEELING PAINT THROUGHOUT TRUSS AND STRINGER BEARINGS AT PIER, NORTH AND SOUTH ABUTMENTS	6550
2	CONCRETE REPAIR	CF	ABUTMENTS AND NORTHEAST WING WALL	NORTH ABUTMENT: 1/8" WIDE VERTICAL CRACK WITH EFFLORESCENCE AND AN ADJACENT 4'-0" HIGH HOLLOW SOUNDING AREA AT THE NORTHWEST WING WALL INTERFACE, FULL-LENGTH x 1'-0" HIGH AREA OF MAP CRACKS WITH BUILT-UP EFFLORESCENCE ALONG TOP EDGE, 1'-6" HIGH HOLLOW SOUNDING AREA AT MID-HEIGHT NEAR SOUTH EDGE, 5'-6" LONG SPALL AND HOLLOW SOUNDING AREA AT WEST END OF TOP SURFACE OF ABUTMENT STEM, 1'-10" LONG SPALL NEAR TOP OF STEM BELOW BAY 2, 1'-5" LONG SPALL 4'-0" FROM TOP OF STEM BELOW BAY 3 WITH 2 ADJACENT SPALLS TO THE EAST, 1'-8" LONG SPALL BELOW EAST TRUSS BEARING 4'-0" FROM TOP OF STEM; SOUTH ABUTMENT: 1'-0" WIDE x 1'-0" HIGH HOLLOW SOUNDING AREA BELOW STRINGER 4; NORTHEAST WING WALL: 8'-3" LONG SPALL AT TOP OF WING WALL ALONG ABUTMENT INTERFACE	9
3	REPAIR FAILED PARGING/REPOINT MASONRY	SF	STONE MASONRY PORTIONS OF THE WING WALLS AND PIER	NORTHEAST WING WALL: APPROXIMATELY 25% OF THE PARGE COATING IS MISSING FROM THE VERTICAL FACE WITH DETERIORATED MORTAR AND VOIDS THROUGHOUT; SOUTHEAST/SOUTHWEST WING WALLS: DETERIORATED/MISSING MORTAR AT MAJORITY OF THE JOINTS, SEVERAL SMALL VOIDS AND A LARGE VOID DUE TO MISSING STONE IN SOUTHEAST WING WALL; PIER: APPROXIMATELY 60% OF THE PARGE COATING IS MISSING FROM THE NORTH FACE, 10% FROM THE SOUTH AND WEST FACES, AND 30% FROM THE EAST FACE	2290
4	REPLACE BRIDGE RAILING	LF	EAST RAILING AT THE NORTH END OF THE BRIDGE	DAMAGED PORTION OF THE EAST RAILING AT THE NORTH END OF THE BRIDGE	12
5	REPLACE BOLTS	EA	THROUGHOUT BRIDGE RAILINGS, LATERAL BRACING MEMBERS, BETWEEN STRINGERS & FLOORBEAMS	WEST BRIDGE RAILING: LOOSE OR MISSING BOLTS AT POSTS 16, 29, 31 33, 35; EAST BRIDGE RAILING: LOOSE OR MISSING BOLTS BETWEEN POSTS 3 AND 4, 9 AND 10, AND AT POSTS 16, 22; TOP LATERAL BRACING MEMBERS ARE TYPICALLY LOOSE; BETWEEN STRINGERS AND FLOORBEAMS: LOOSE CONNECTION BOLTS AT FLOORBEAMS 1-5, 8, 10-13, MISSING NUT AT CONNECTION BETWEEN STRINGER 4 AND FLOOR BEAM 5	108
6	REPAIR MASONRY WING WALL	LF	SOUTHWEST MASONRY WING WALL	TWO FRACTURED STONES AT THE BASE; UP TO 6" OUTWARD BULGE NEAR NORTH END AT MID-HEIGHT	32
7	EPOXY PRESSURE INJECTION	LF	WEST FACE OF THE NORTH ABUTMENT	1/8" WIDE VERTICAL CRACK WITH EFFLORESCENCE AND AN ADJACENT 4'-0" HIGH HOLLOW SOUNDING AREA AT THE NORTHWEST WING WALL INTERFACE	20
8	REPLACE TIMBER DECK AND CURB	SF			3890
9	REPAIR END POST COVER PLATE	LBS	END POSTS L7BU8W, L7AU6W, L14U13W	L7BU8W: CORROSION AND TWO HOLES AT L7BW COVER PLATE; L7AU6W: CORROSION AND A HOLE AT L7AW COVER PLATE; L14U13W: PERFORATIONS THROUGHOUT BOTTOM 4" OF COVER PLATE, END OF COVER PLATE BENT AT L14W	107
10	REPAIR VERTICAL MEMBER (C4x5.4)	LBS	L1U1W, L13U13W	L1U1W: 3 PIN SIZED HOLES IN LOWER END OF INTERIOR CHANNEL, ADJACENT TO LATTICE RAILING CONNECTION, AND TWO HOLES IN WEB; L13U13W: SECTION LOSS IN INTERIOR WEB ABOVE LATTICE RAILING CONNECTION	32
11	REPAIR VERTICAL MEMBER (C5x6.7)	LBS	L10U10W, L10U10E	REPAIR VERTICAL MEMBERS AT LOWER GUSSET PLATE CONNECTION	23
12	REPLACE DIAGONAL EYE BAR PAIR (1 3/4" x 1")	LBS	L12U13W, L2U1E, L5U6E, L9U8E, L12U13E	FULL CIRCUMFERENCE SECTION LOSS IN EXTERIOR MEMBER OF L12U13W AT L12W; FULL CIRCUMFERENCE x FULL WIDTH SECTION LOSS IN INTERIOR MEMBER OF L2U1E AT L2E; 6" LONG x 3/4" WIDE SECTION LOSS IN BOTTOM OF INTERIOR MEMBER L5U6E; LAMINAR RUST ON BOTTOM OF MEMBER L9U8E AT L9E; FULL CIRCUMFERENCE SECTION LOSS IN INTERIOR MEMBER OF L12U13E AT L12E	1432
13	REPLACE DIAGONAL EYE BAR (1 1/4" x 1")	LBS	L4U3W	3" LONG x FULL WIDTH AREA OF SECTION LOSS AT L4W	103
14	REPLACE DIAGONAL EYE BAR PAIR (1 1/8" x 1")	LBS	L10U9W, L3U2E	FULL CIRCUMFERENCE SECTION LOSS IN INTERIOR MEMBER OF L10U9W; 8" LONG x FULL WIDTH SECTION LOSS IN EXTERIOR MEMBER OF L3U2E AT L3E	369
15	REPLACE BOTTOM CHORD EYE BAR PAIR (1 3/4" x 1")	LBS	L0L1, L1L2, L5L6, L6L7A, L7BL8, L8L9, L12L13, L13L14		3240
16	REPLACE BOTTOM CHORD EYE BAR PAIR (2 7/8" x 1")	LBS	L2L3, L4L5, L9L10, L11L12		2661
17	REPLACE BOTTOM CHORD EYE BAR PAIR (3 1/2" x 1")	LBS	L3L4, L10L11		1620
18	REPLACE PORTAL MEMBER	LBS	NORTH PORTAL IN SPANS 1 AND 2 AND SOUTH PORTAL IN SPAN 2	BENT MEMBERS IN SPAN 1 NORTH PORTAL: WEST BOTTOM STRUT, TOP HORIZONTAL STRUT, WEST DIAGONAL; BENT MEMBERS IN SPAN 2 NORTH PORTAL: EAST AND WEST DIAGONALS; BENT MEMBERS IN SPAN 2 SOUTH PORTAL: TOP HORIZONTAL STRUT, EAST DIAGONAL	296
19	REPLACE 3" DIAMETER PIN	LBS	JOINTS L3, L4, L10, L11		225
20	REPLACE 2 1/2" DIAMETER PIN	LBS	JOINTS U1-U13 AND L0-14 EXCEPT L3, L4, L10, L11		735
21	REPLACE U-BAR	LBS	ALL U-BARS	U-BARS AT EACH FLOOR BEAM PIN CONNECTION	352
22	REPLACE GUSSET PLATE	LBS	INTERIOR GUSSET PLATES AT FLOOR BEAM CONNECTIONS OF MEMBERS L11U11W, L11U11E, L13U13W	SECTION LOSS IN THE INTERIOR GUSSET PLATE AROUND CONNECTION TO FLOORBEAMS AND INTERIOR GUSSET PLATE AT JOINT U11E	42
23	REPLACE LATTICE RAILING	LBS	ENTIRE LATTICE RAILING		2350
24	REPAIR GALVANIZED COATING	SF	STRINGERS AND FLOORBEAMS	INTERMITTENT AREAS OF CORROSION AND WHITE OXIDATION WHERE THE GALVANIZED COATING HAS FAILED IN STRINGERS, FLOORBEAMS, AND TRUSS HANGERS	97
25	REPLACE APPROACH TRAFFIC BARRIER	LF	SOUTH APPROACH TRAFFIC BARRIER	TRAFFIC BARRIER ALONG BOTH SIDES OF SOUTH APPROACH SET TO SUBSTANDARD HEIGHT	200
26	STIFFEN TRAFFIC BARRIER	EA	NORTHWEST, SOUTHWEST, SOUTHEAST TRAFFIC BARRIER TRANSITIONS	NORTHWEST, SOUTHWEST, SOUTHEAST TRAFFIC BARRIERS NOT STIFFENED WITH REDUCED POST SPACING AT TRANSITIONS	18



S-02

FREDERICK COUNTY, MARYLAND

DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

REHABILITATION TO BRIDGE NO. F05-03 ON SIXES BRIDGE ROAD OVER MONOCACY RIVER

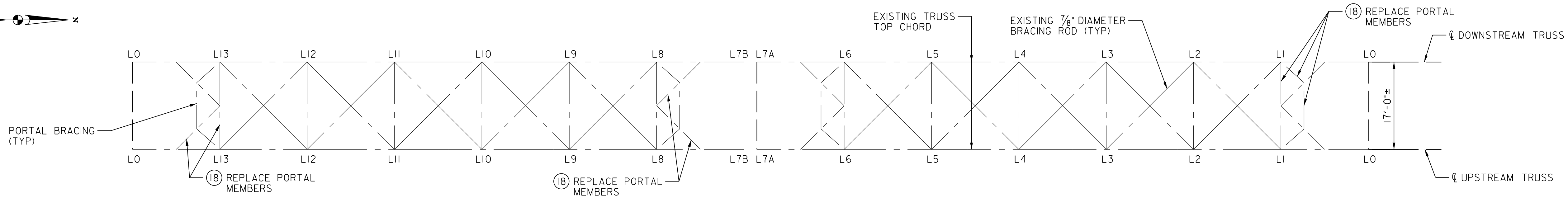
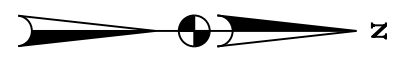
SCHEDULE OF WORK

DATE: OCTOBER 2024

SCALE:

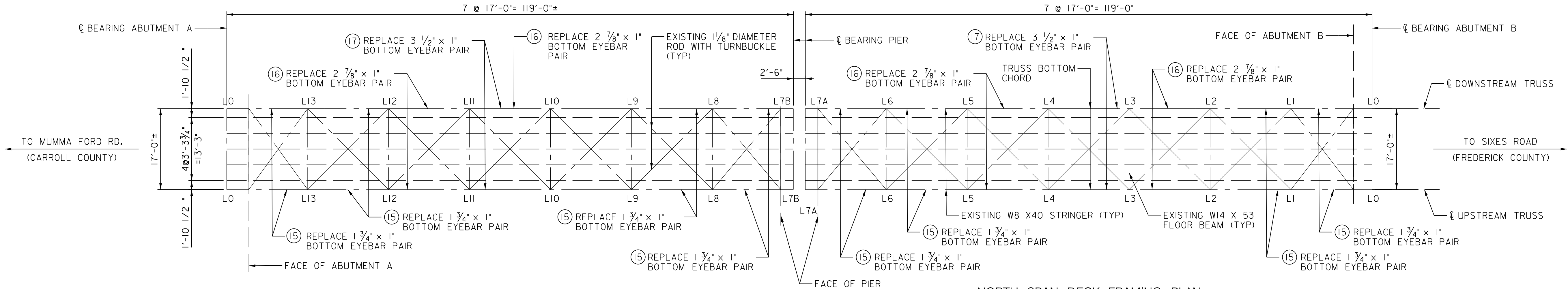
FREDERICK COUNTY PROJECT NO.: C6018.6018.01

DWG. 9 OF 21



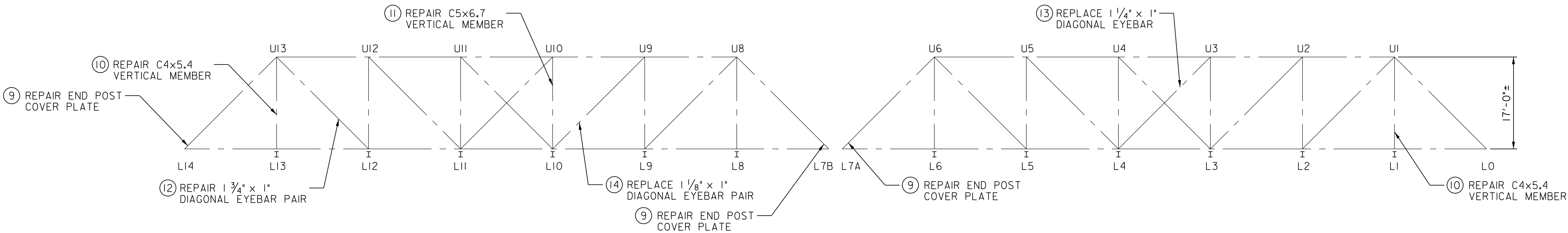
SOUTH SPAN TOP CHORD FRAMING PLAN
SCALE: 3/32" = 1'-0"

NORTH SPAN TOP CHORD FRAMING PLAN
SCALE: 3/32" = 1'-0"



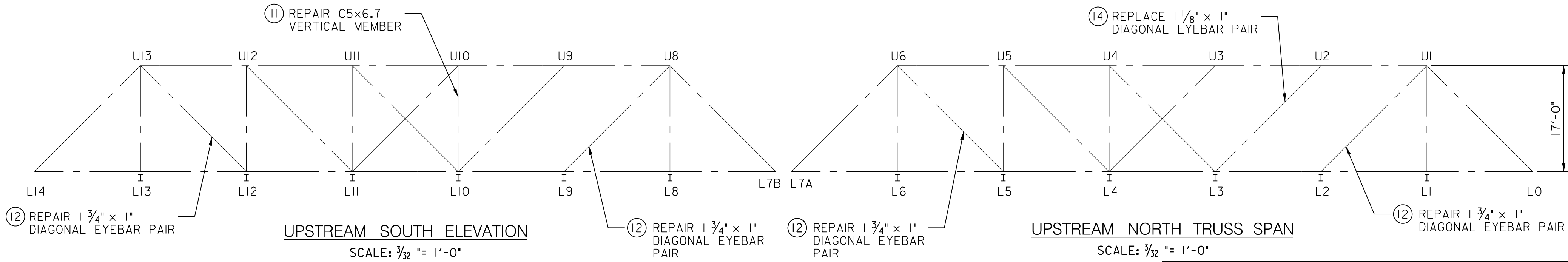
SOUTH SPAN DECK FRAMING PLAN
SCALE: 3/32" = 1'-0"

NORTH SPAN DECK FRAMING PLAN
SCALE: 3/32" = 1'-0"



DOWNSTREAM SOUTH TRUSS SPAN
SCALE: 3/32" = 1'-0"

DOWNSTREAM NORTH TRUSS SPAN
SCALE: 3/32" = 1'-0"



UPSTREAM SOUTH ELEVATION
SCALE: 3/32" = 1'-0"

UPSTREAM NORTH TRUSS SPAN
SCALE: 3/32" = 1'-0"

NOTE:
1. FOR SUPERSTRUCTURE REPAIR DETAILS, SEE SHEETS S-05 THROUGH S-07.

S-03

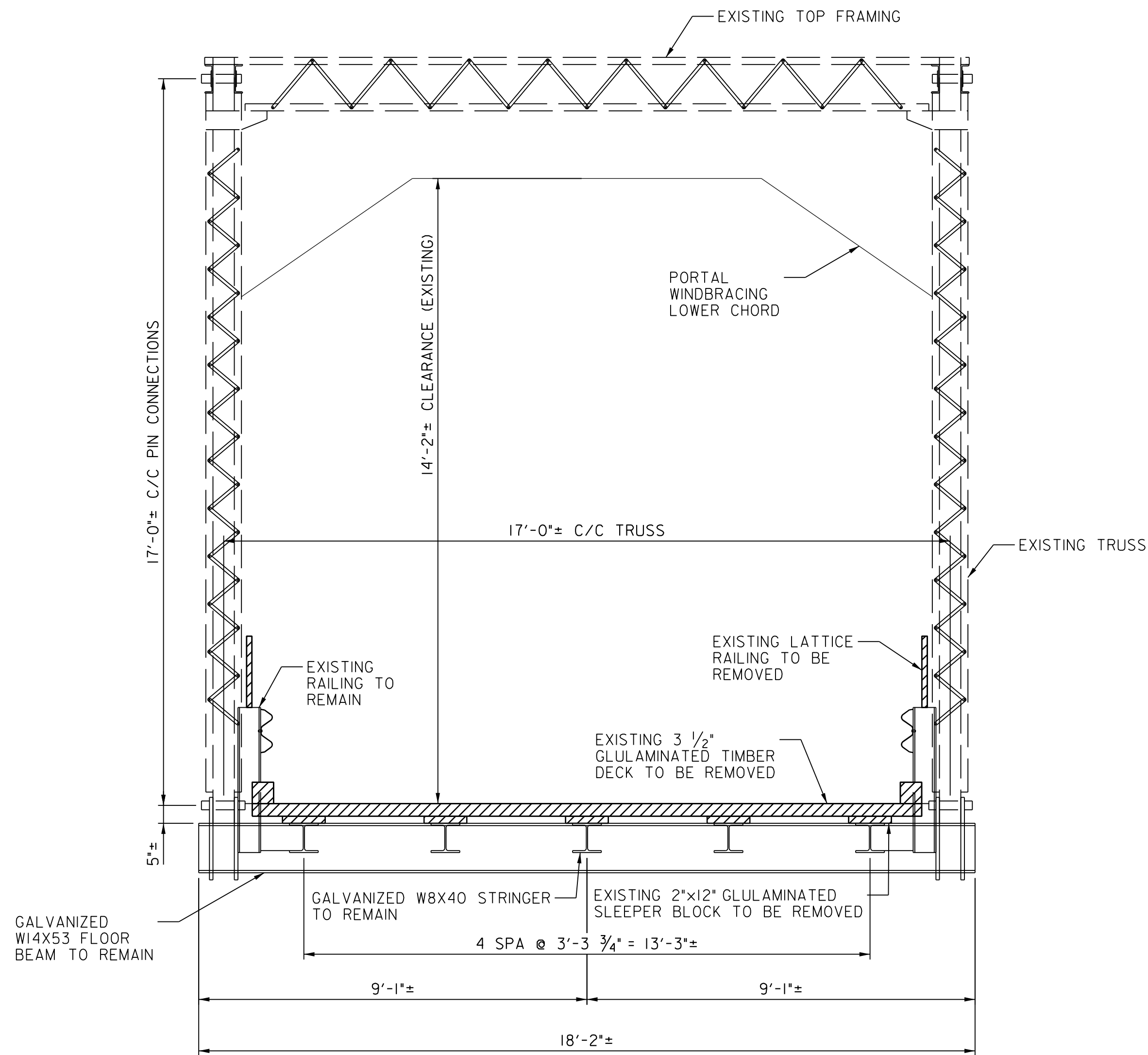
FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

REHABILITATION TO BRIDGE NO. F05-03 ON SIXES BRIDGE ROAD OVER MONOCACY RIVER

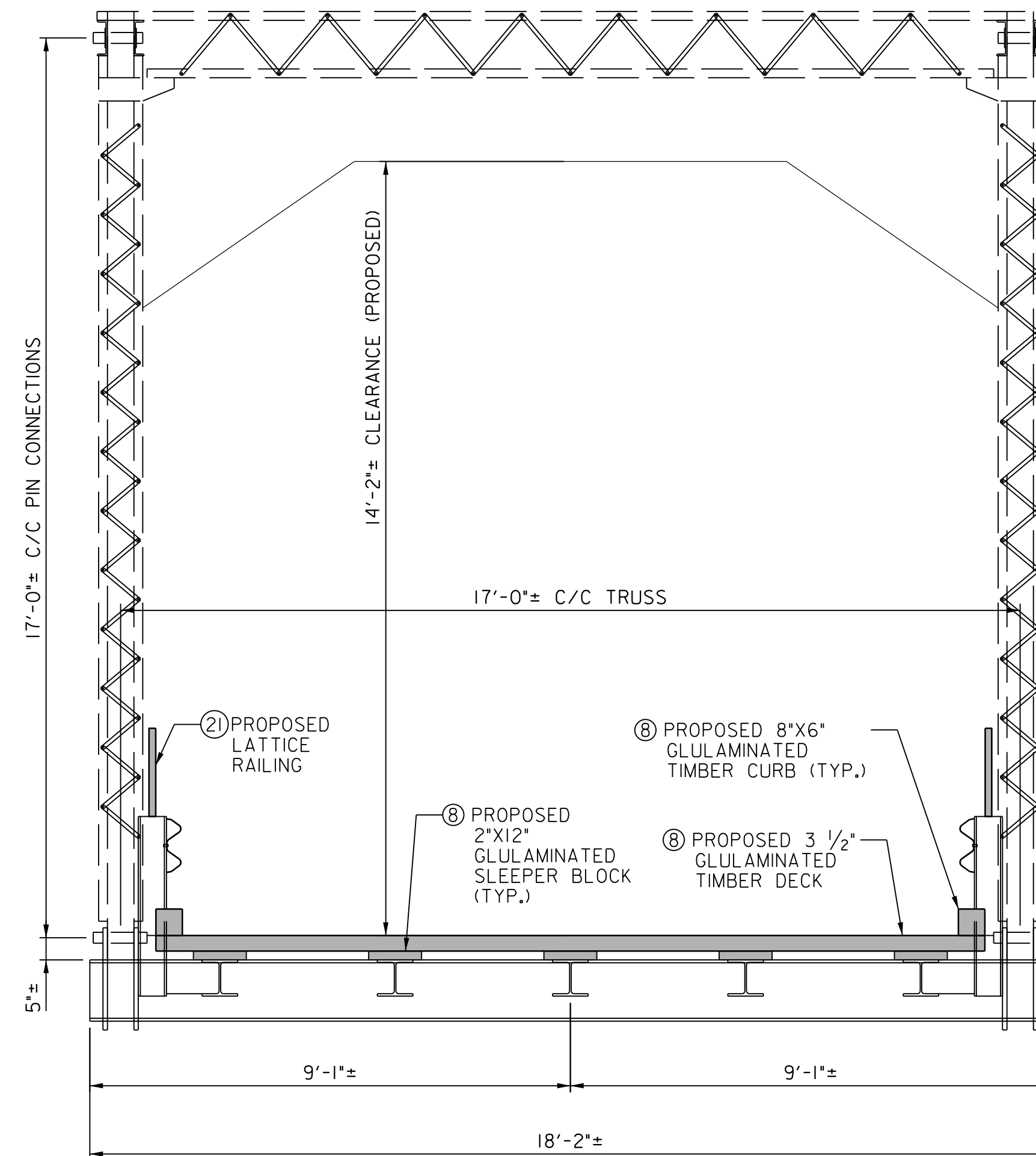
FRAMING PLAN AND TRUSS ELEVATIONS

DATE: OCTOBER 2024 SCALE:
FREDERICK COUNTY PROJECT NO.: C6018.6018.01 DWG. 10 OF 21





EXISTING TYPICAL SECTION
SCALE: 1/2" = 1'-0"



PROPOSED TYPICAL SECTION
SCALE: 1/2" = 1'-0"

NOTES:

1. CONTRACTOR SHALL FIELD MEASURE EXISTING TIMBER DECK DIMENSIONS PRIOR TO ORDERING MATERIAL.
2. FOR ADDITIONAL REPLACEMENT DETAILS, SEE SHEETS S-05 AND S-07.

S-04

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

**REHABILITATION TO BRIDGE NO.
F05-03 ON SIXES BRIDGE ROAD
OVER MONOCACY RIVER**

**EXISTING AND PROPOSED
TYPICAL SECTIONS**

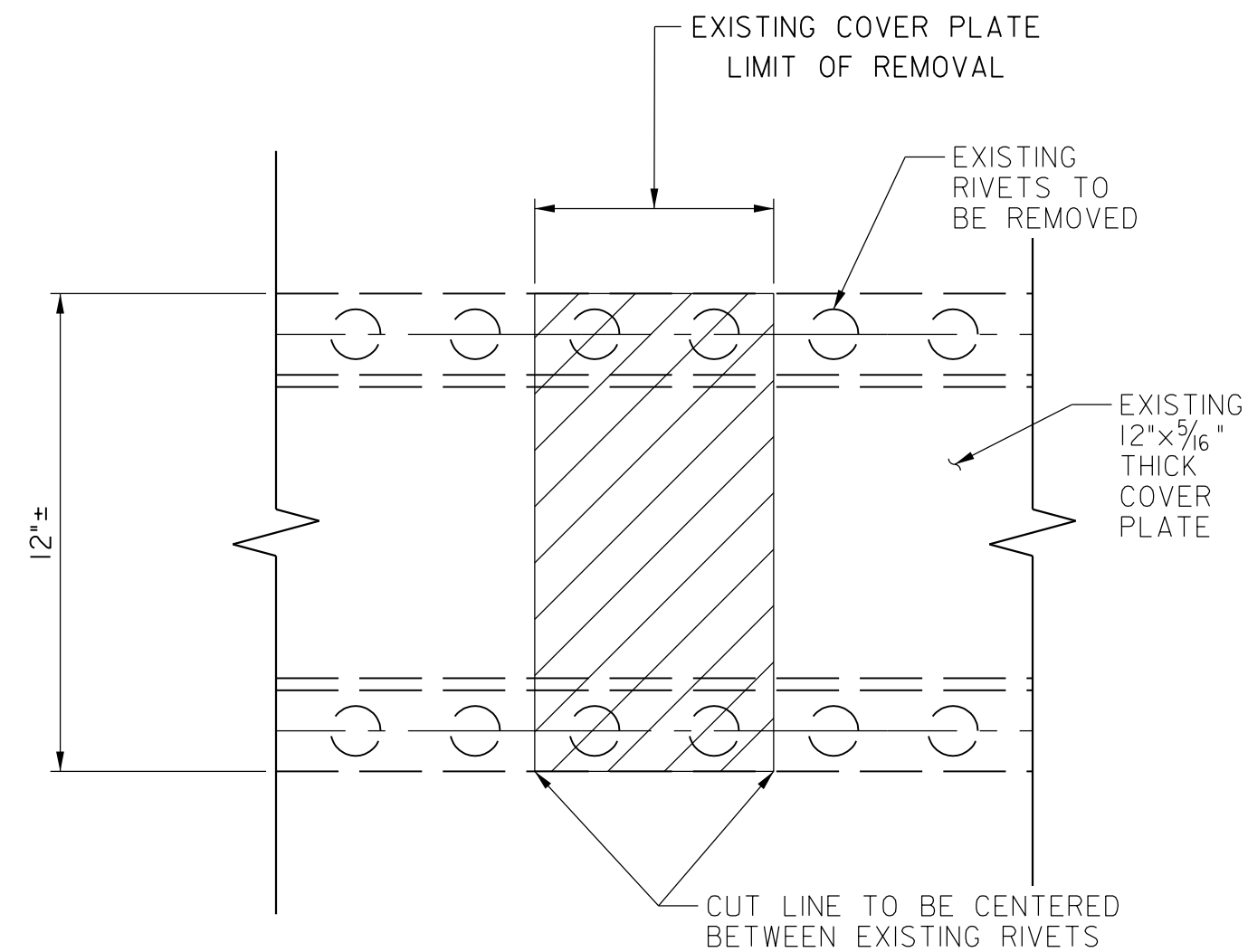
DATE: OCTOBER 2024

SCALE:

FREDERICK COUNTY PROJECT NO.:
C6018.6018.01

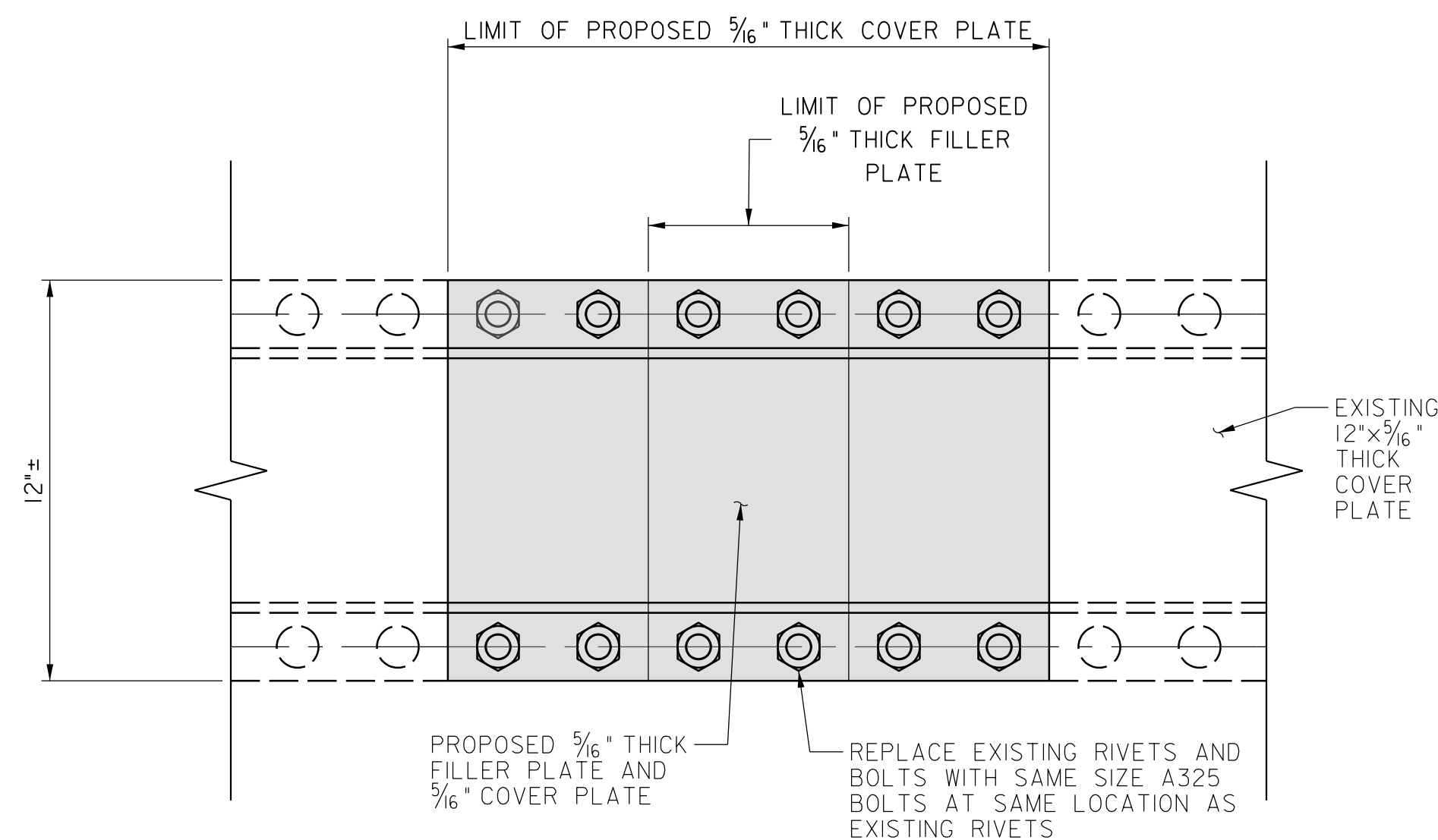
DWG. 11 OF 21





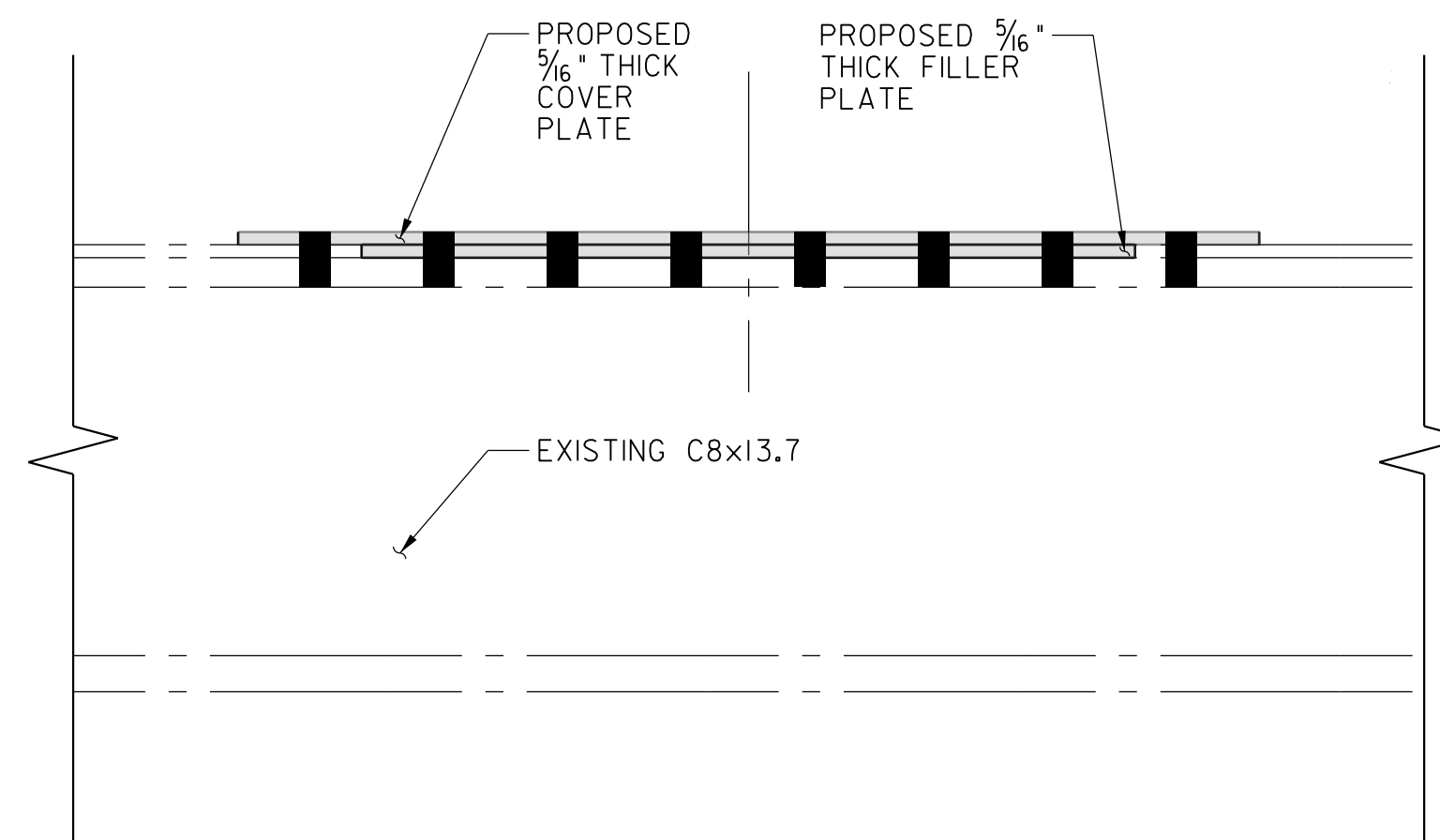
⑨ REPAIR END POST COVER PLATE – PLAN VIEW
EXISTING END PORTAL COVER PLATE REMOVAL

SCALE: 3" = 1'-0"



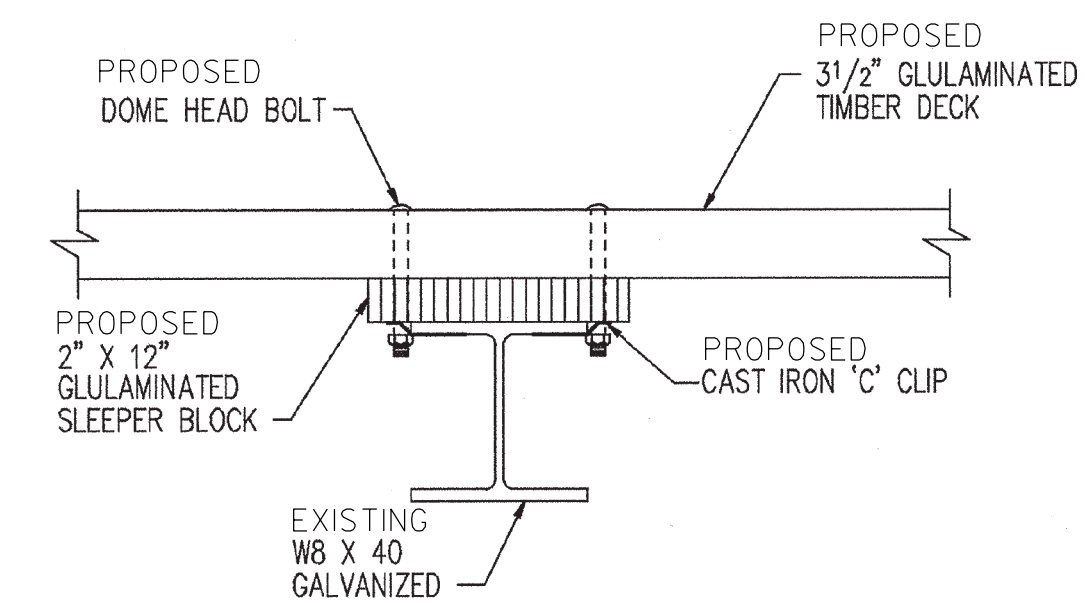
⑨ REPAIR END POST COVER PLATE – PLAN VIEW
PROPOSED END PORTAL COVER PLATE REMOVAL

SCALE: 3" = 1'-0"

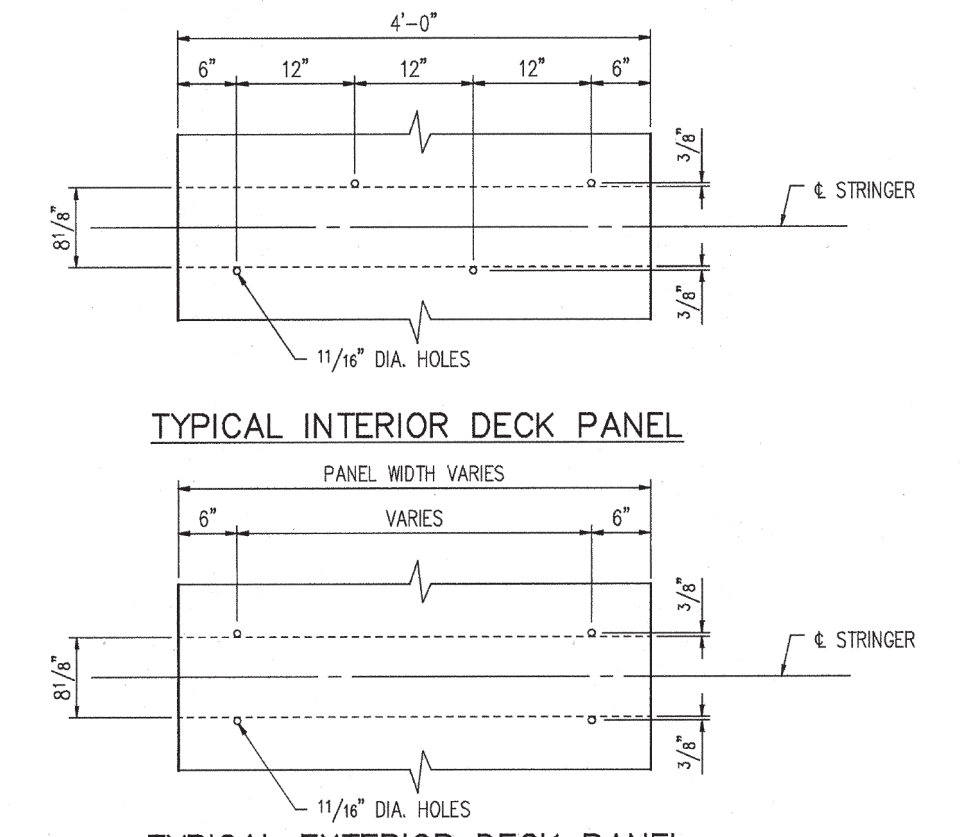


⑨ REPAIR END POST COVER PLATE – SECTION VIEW

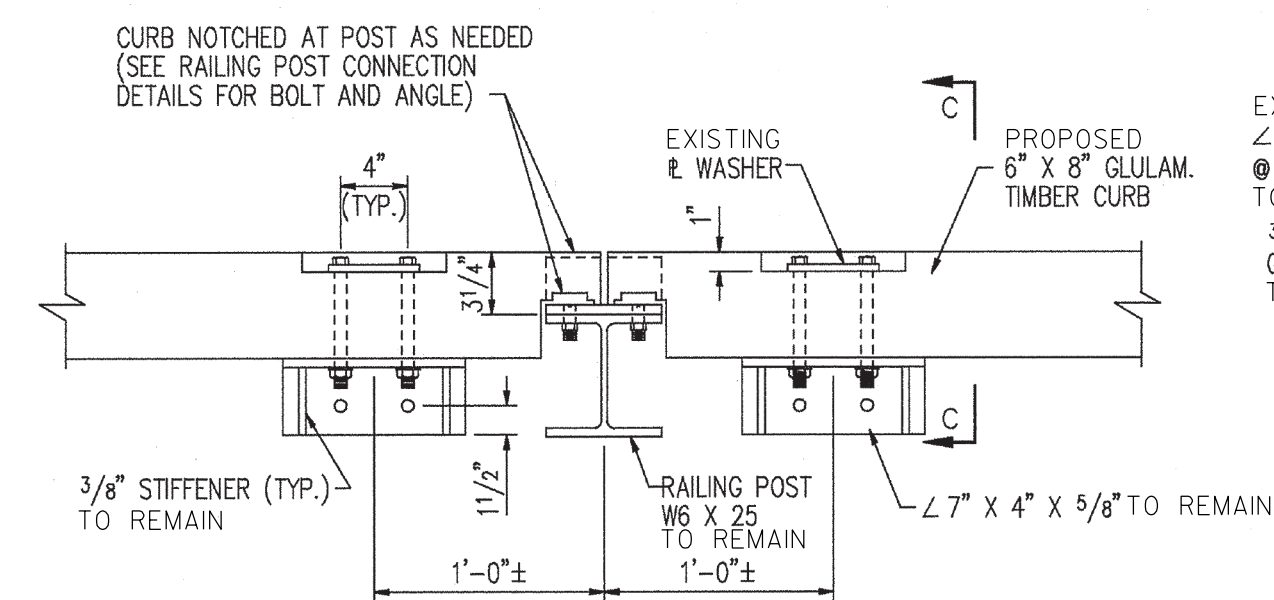
SCALE: 3" = 1'-0"



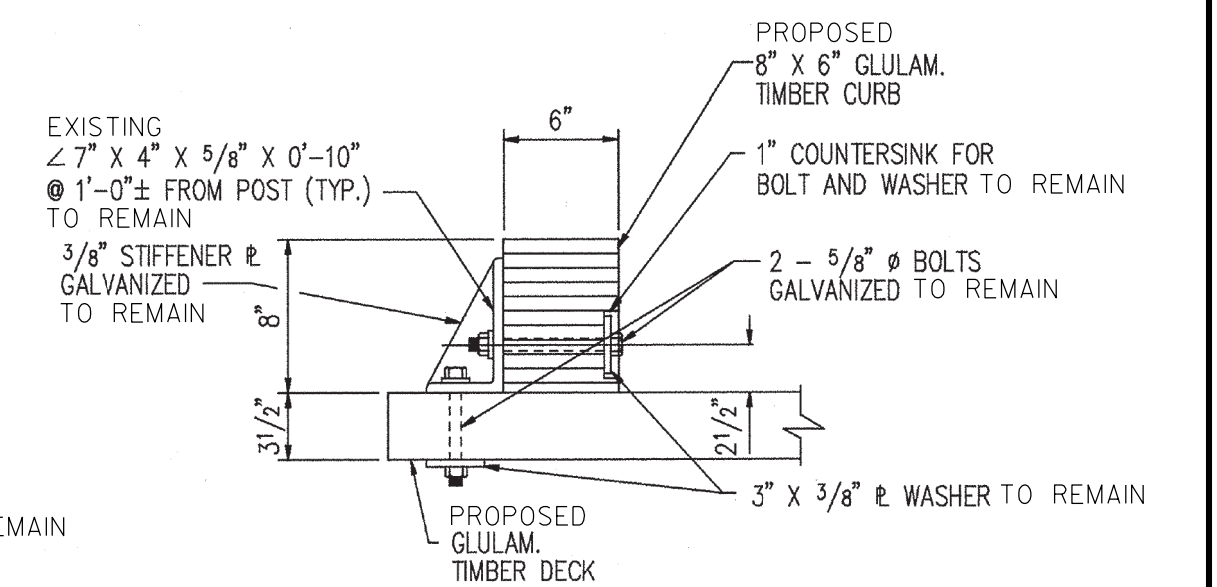
DETAIL 'A'



GLUED LAMINATED TIMBER DECK ATTACHMENT DETAILS



PLAN



SECTION C-C

⑧ REPLACE TIMBER DECK AND CURB – CURB DETAIL

NOT TO SCALE

S-05

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

**REHABILITATION TO BRIDGE NO.
F05-03 ON SIXES BRIDGE ROAD
OVER MONOCACY RIVER**

**SUPERSTRUCTURE
REPAIR DETAILS - 1**

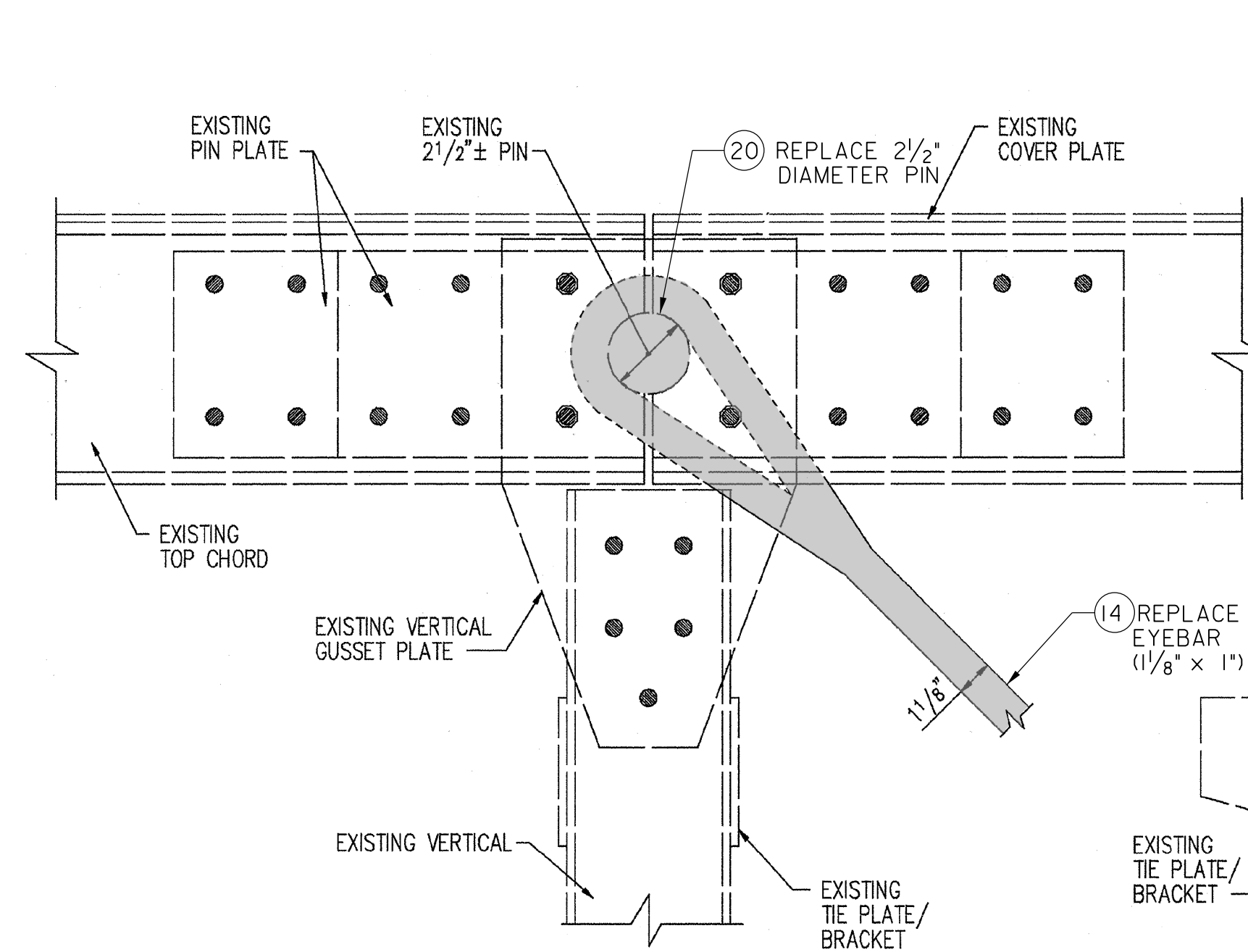
DATE: OCTOBER 2024

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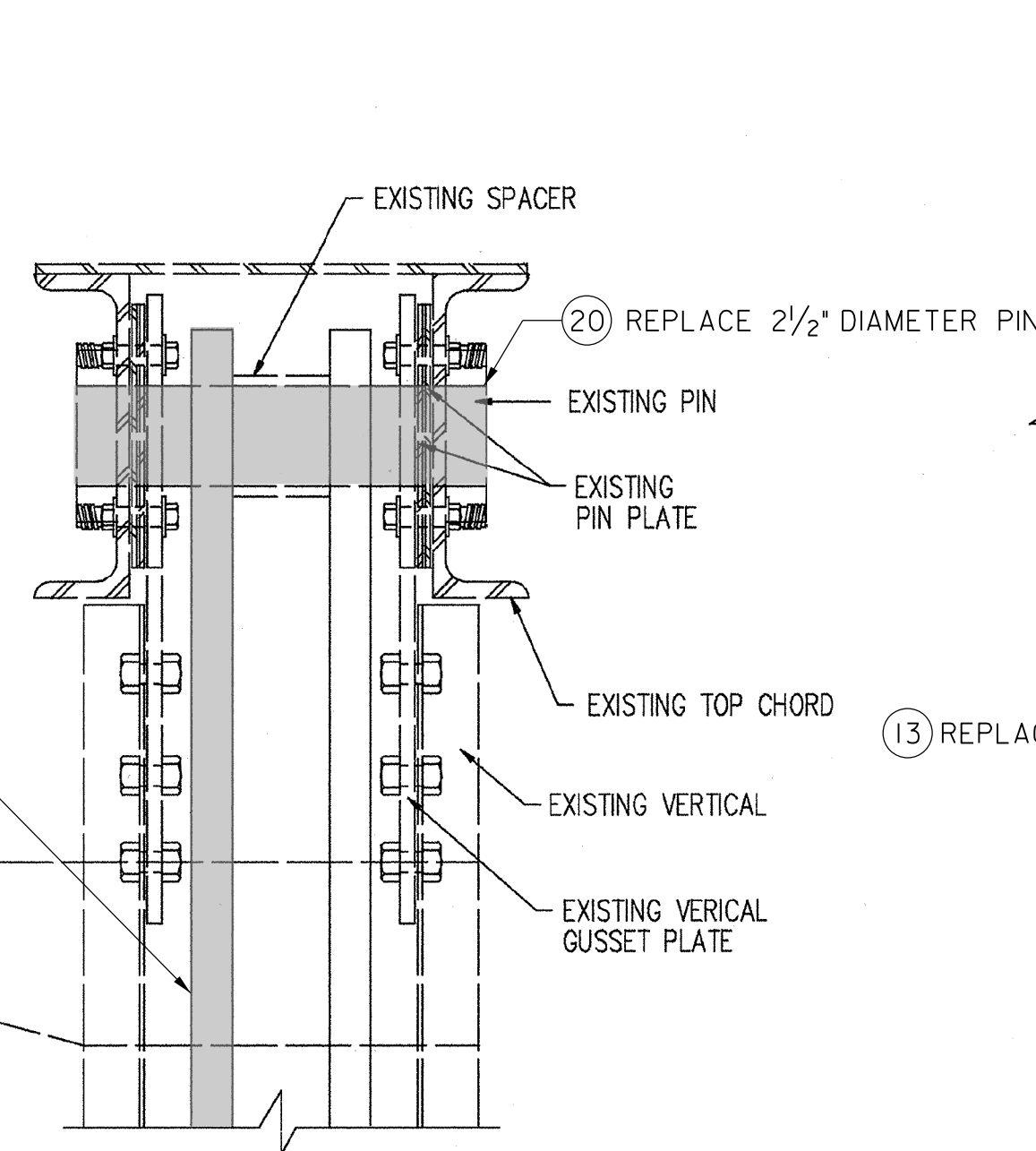
FREDERICK COUNTY PROJECT NO.:
C6018.6018.01

DWG. 12 OF 21

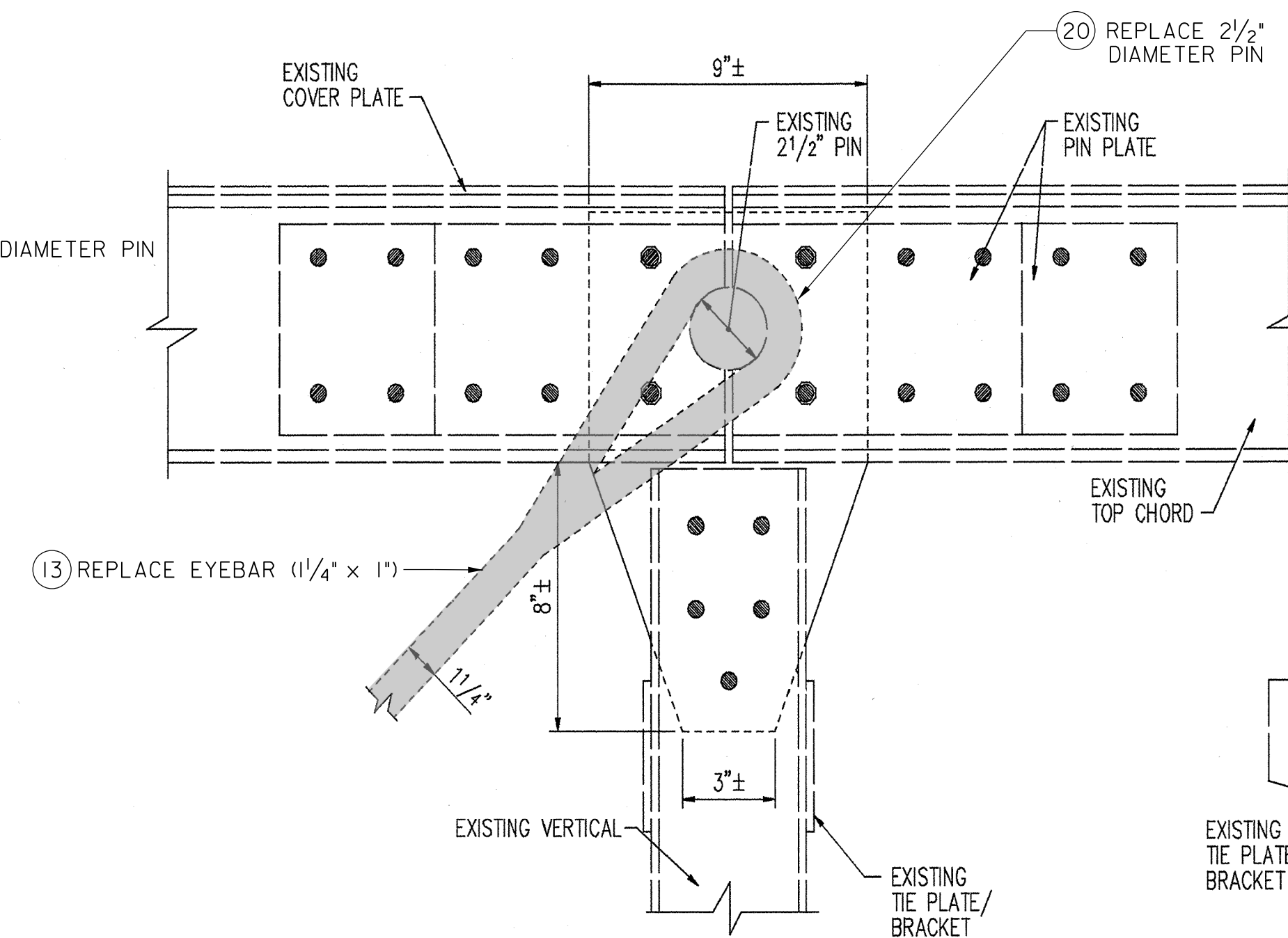




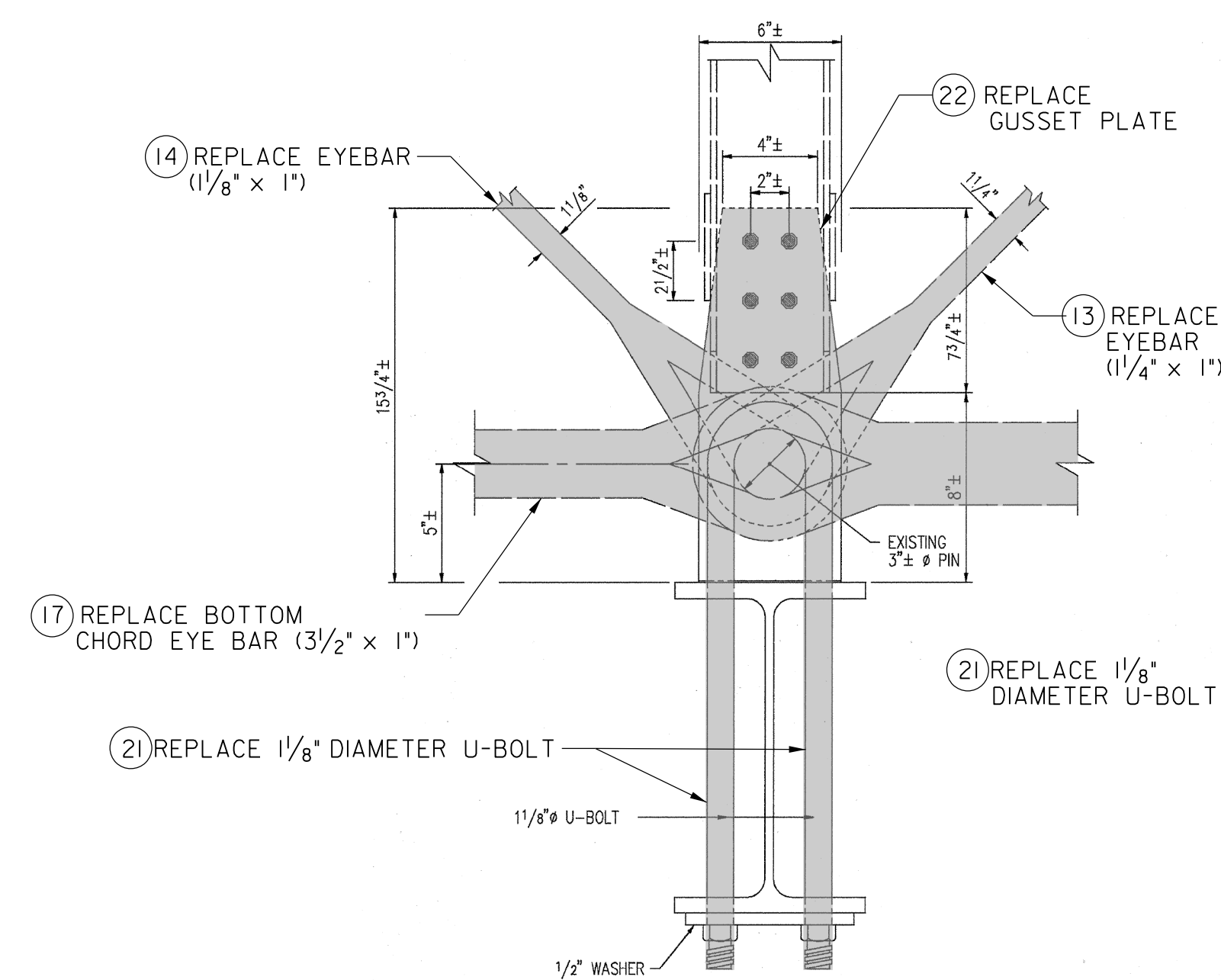
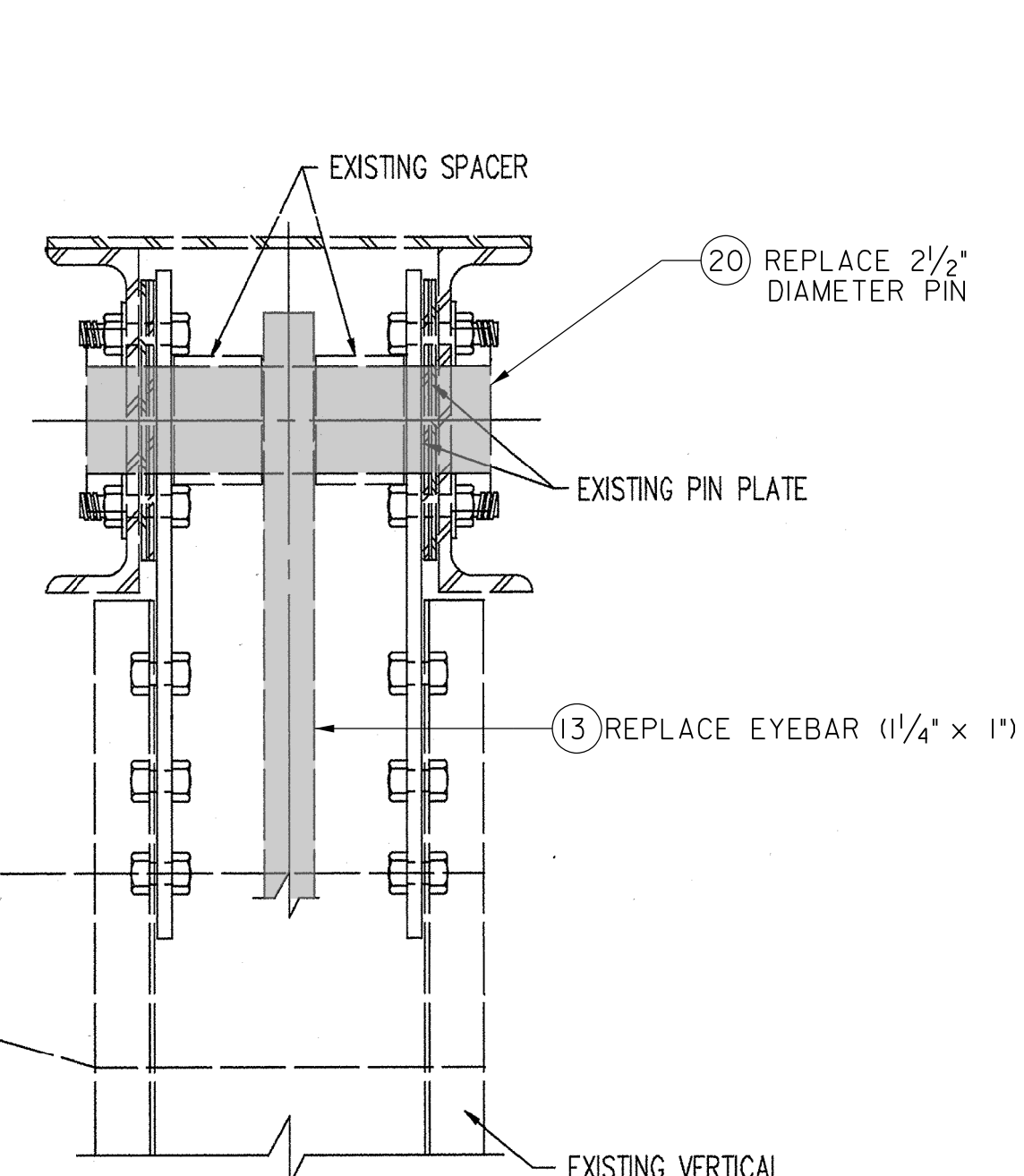
DETAIL U5



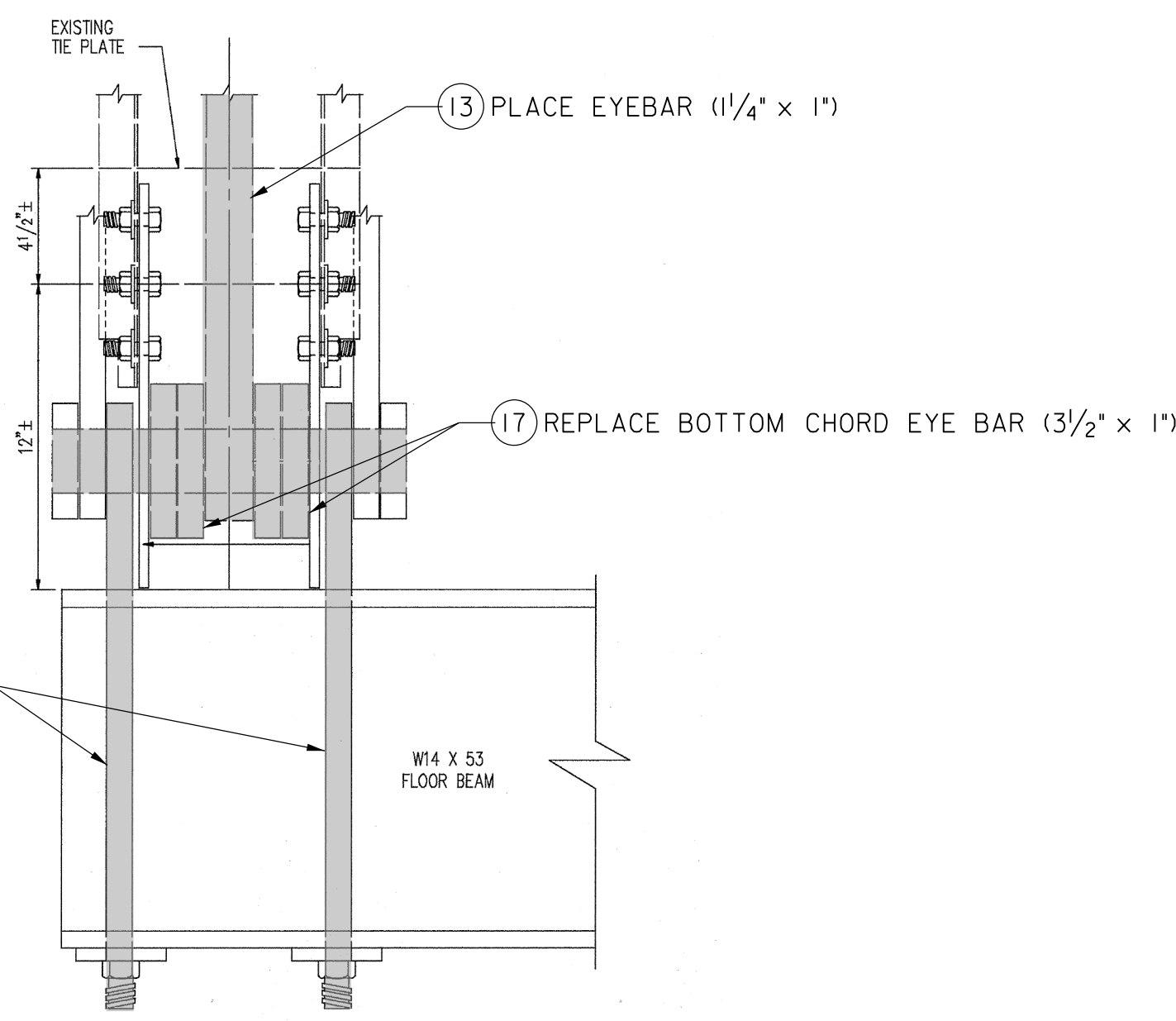
NOTE:
TOP BRACING FRAMING
NOT SHOWN FOR CLARITY.



DETAIL U3

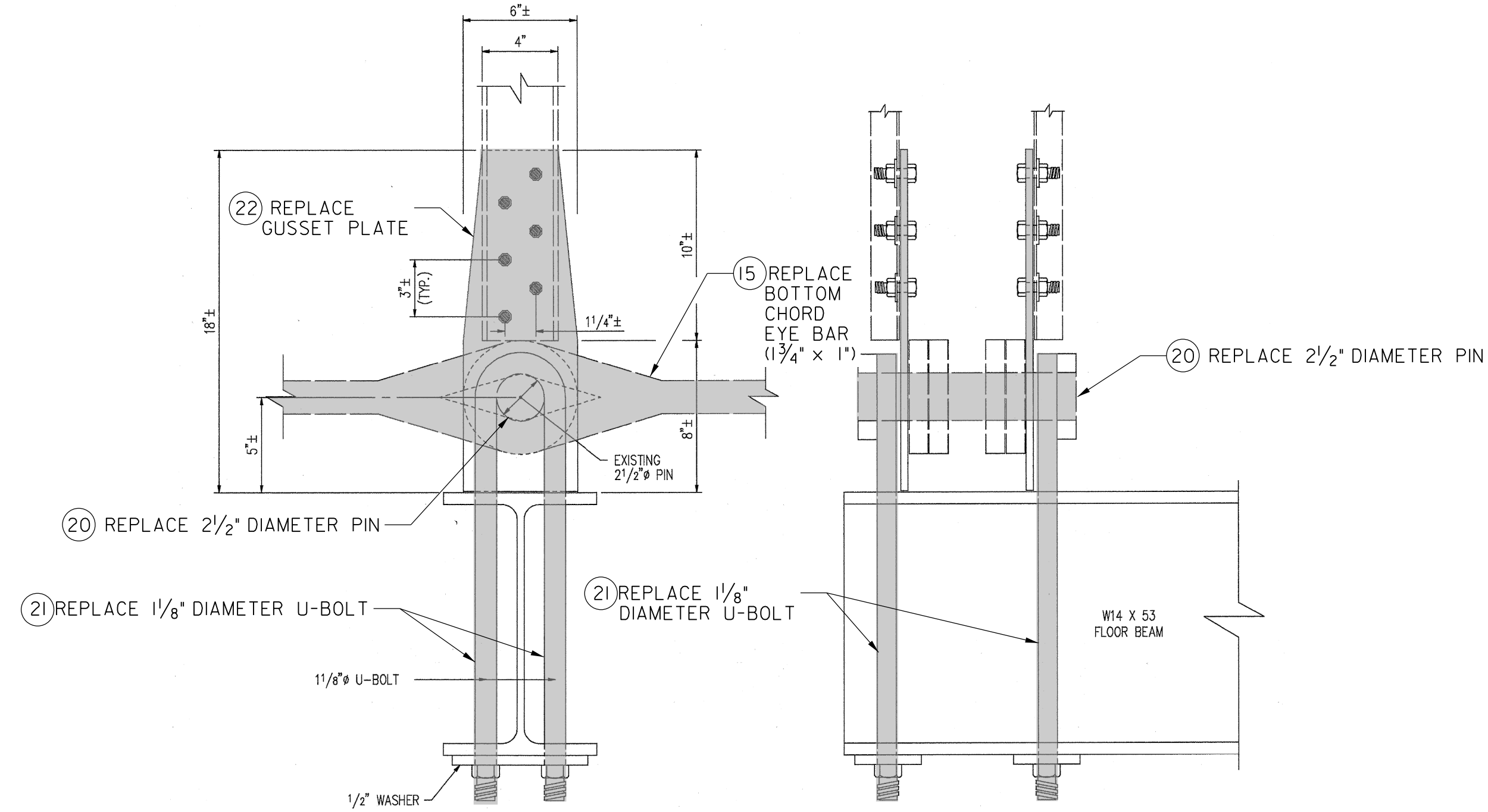


END VIEW

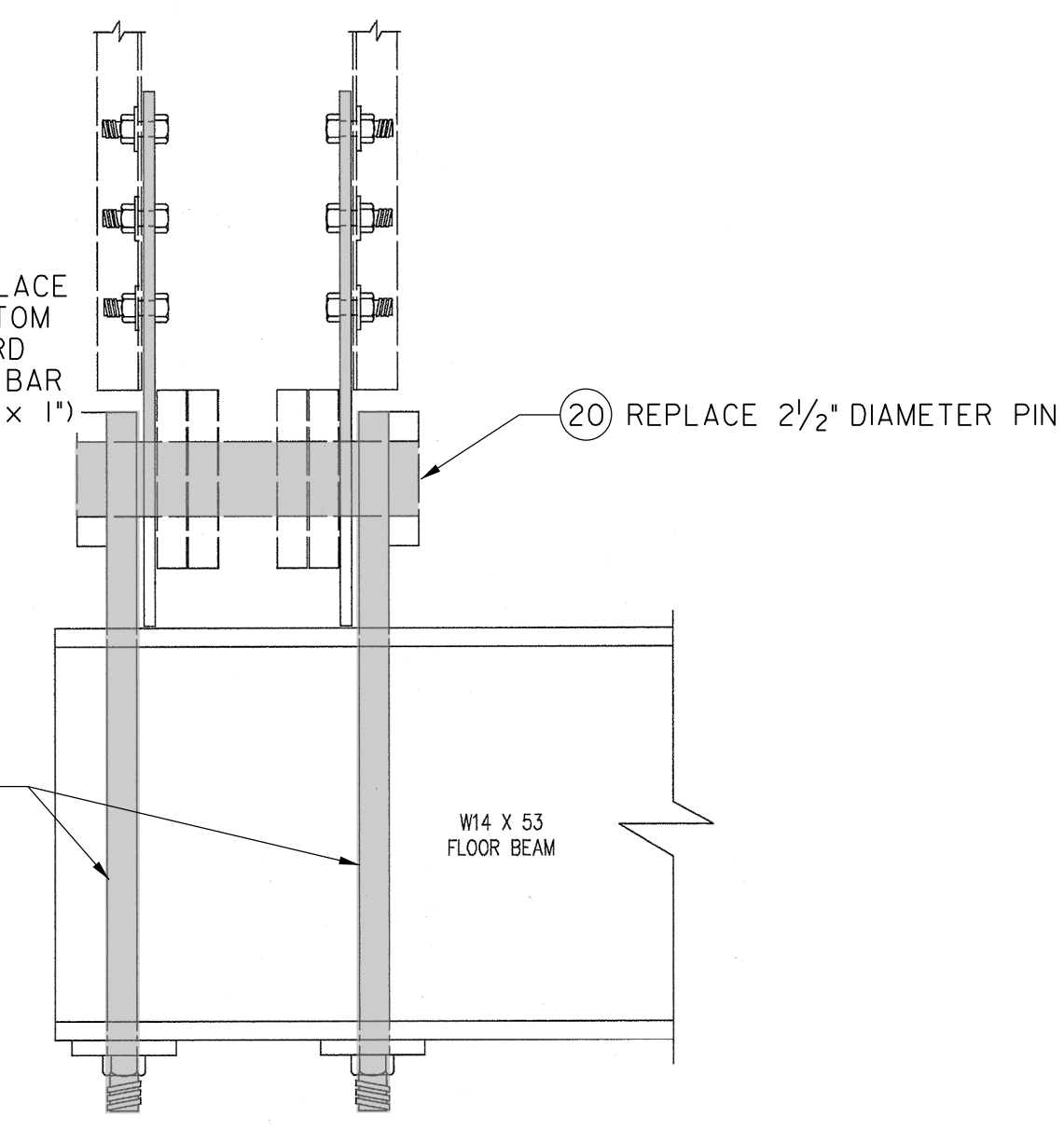


ELEVATION

DETAIL L4



END VIEW



ELEVATION

DETAIL L1

NOTES:

1. VERTICAL MEMBER REPAIRS NOT SHOWN FOR CLARITY, REFER TO SHEET S-07 FOR DETAILS.
2. DETAILS AND REPAIRS SHOWN ON THIS SHEET ARE FOR GENERAL REFERENCE ONLY. CONTRACTOR SHALL REFER TO SHEET S-02 AND S-03 FOR EXACT LOCATIONS OF MEMBERS.
3. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.



S-06

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

**REHABILITATION TO BRIDGE NO.
F05-03 ON SIXES BRIDGE ROAD
OVER MONOCACY RIVER**

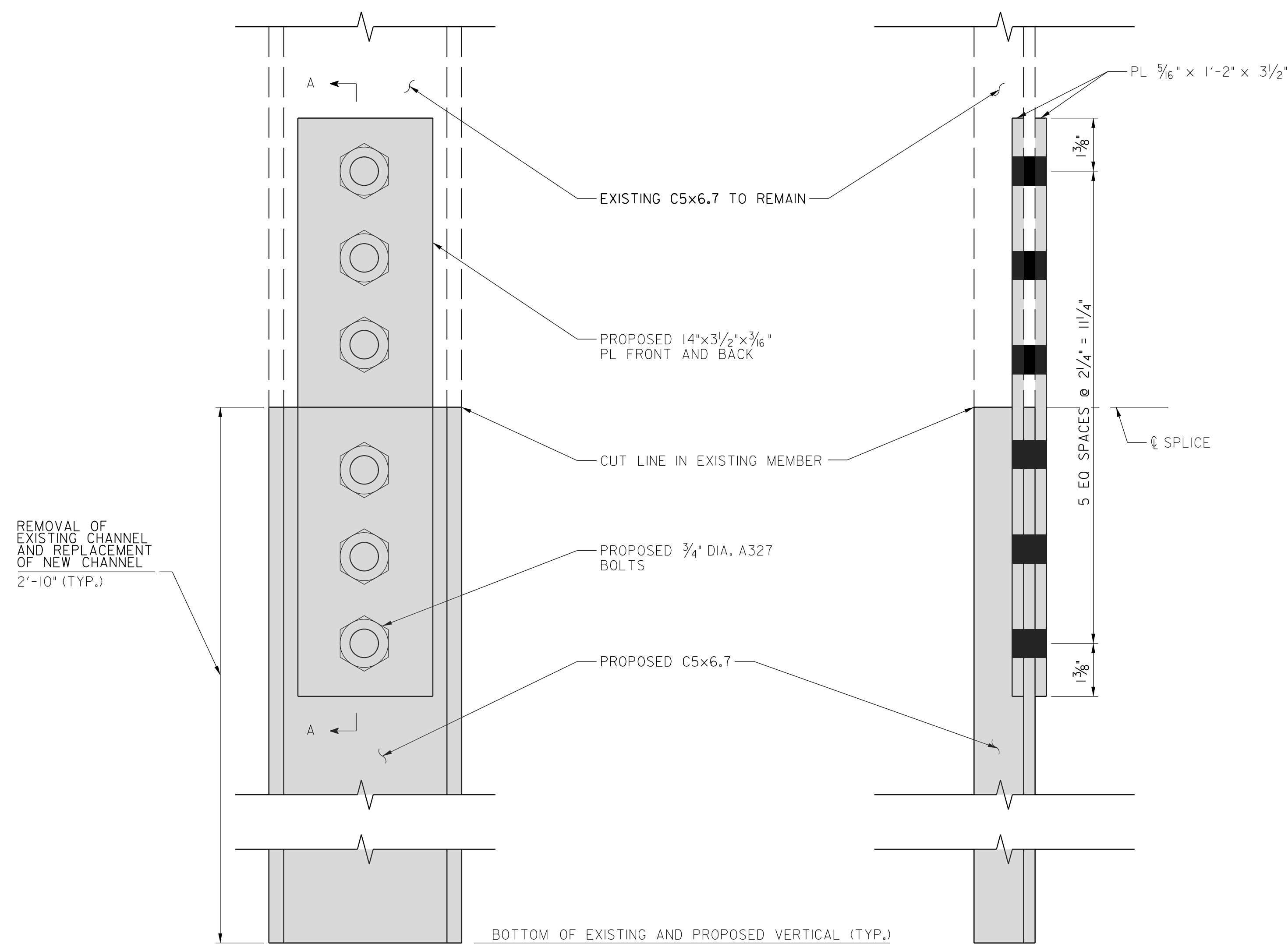
**SUPERSTRUCTURE
REPAIR DETAILS - 2**

DATE: OCTOBER 2024

SCALE:

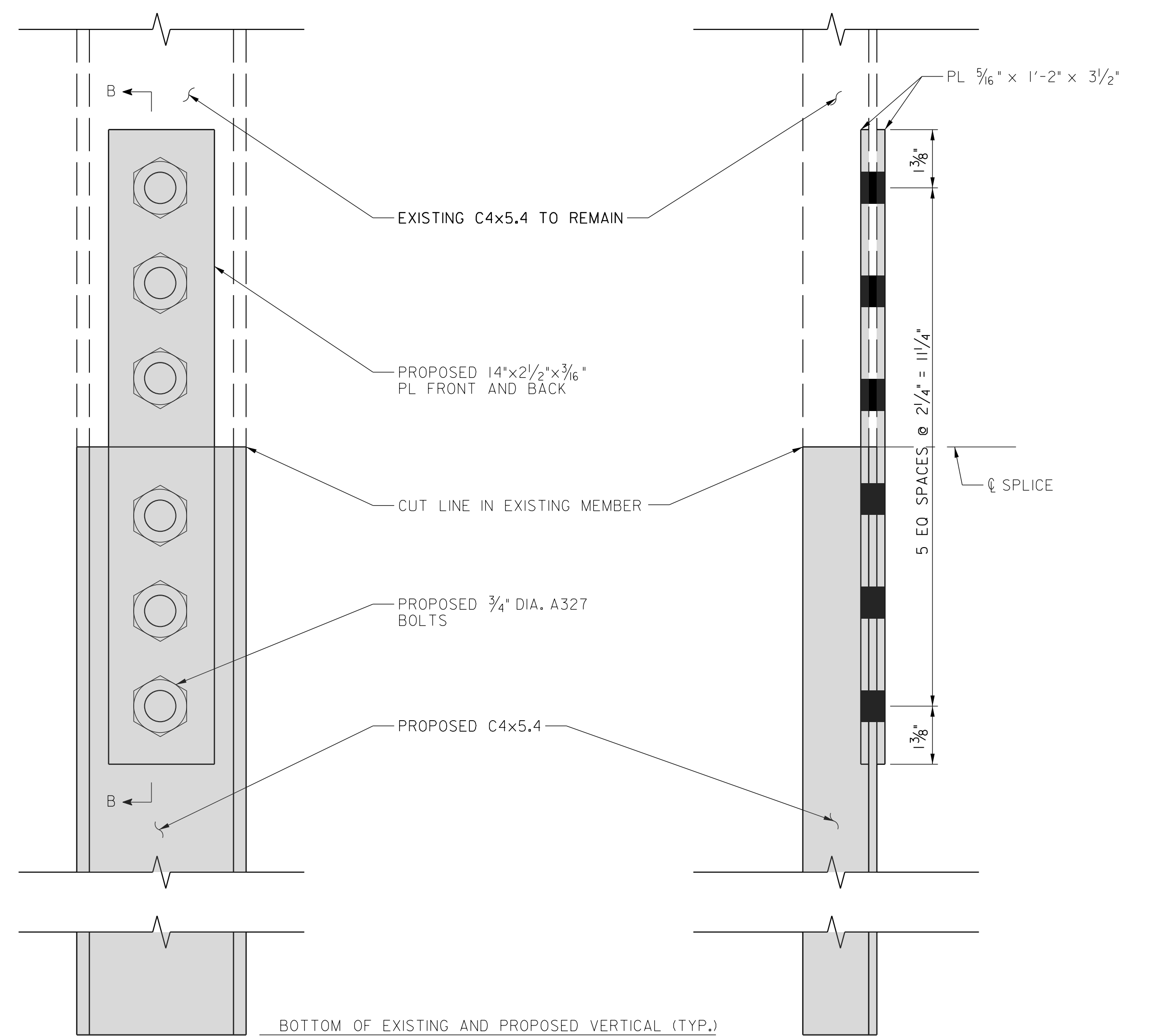
FREDERICK COUNTY PROJECT NO.:
C6018.6018.01

DWG. 13 OF 21



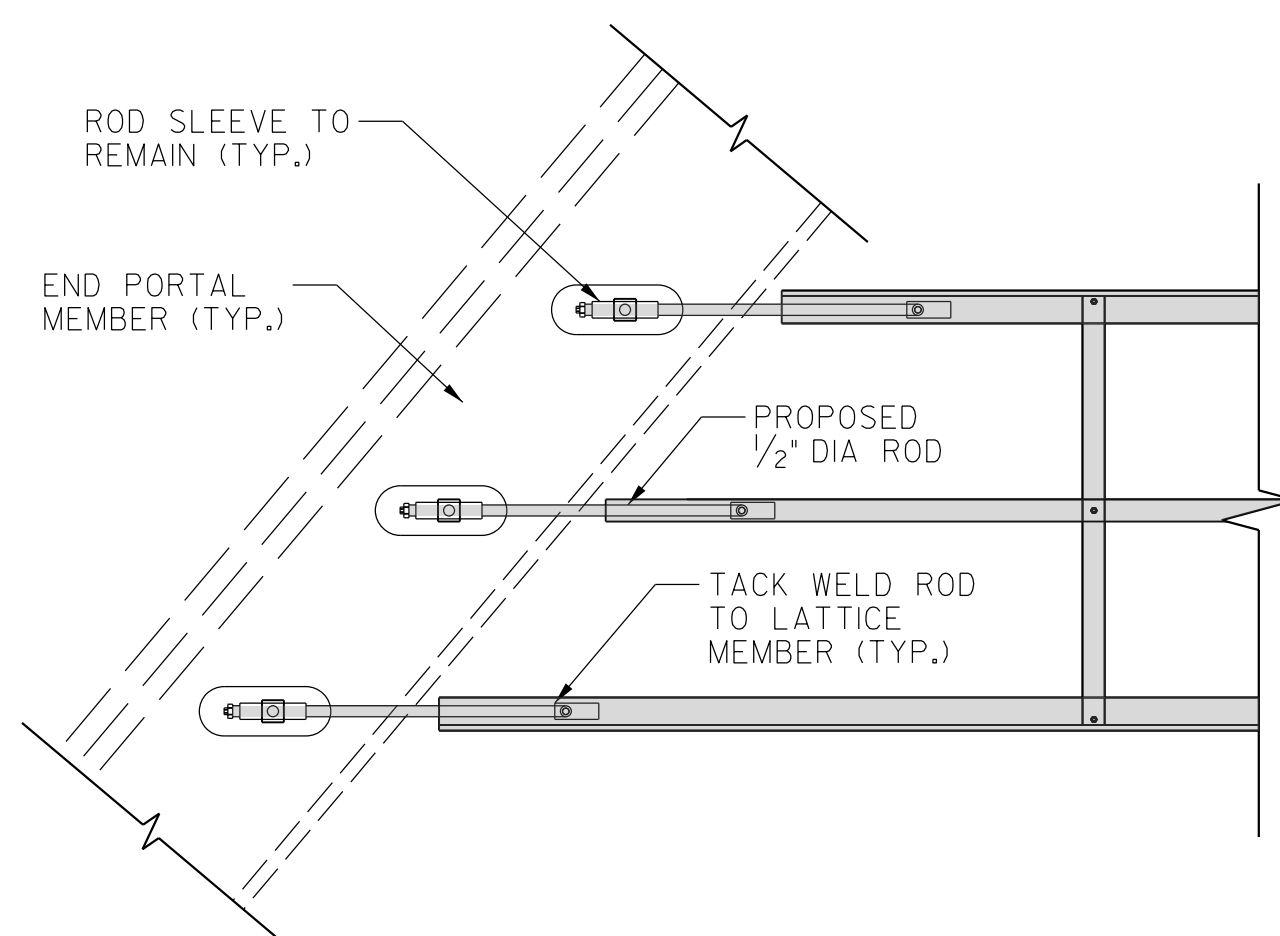
⑪ REPAIR VERTICAL MEMBER (C5x6.7) – ELEVATION VIEW
SCALE: 6" = 1'-0"

⑪ REPAIR VERTICAL MEMBER (C5x6.7) – SECTION A-A
SCALE: 6" = 1'-0"

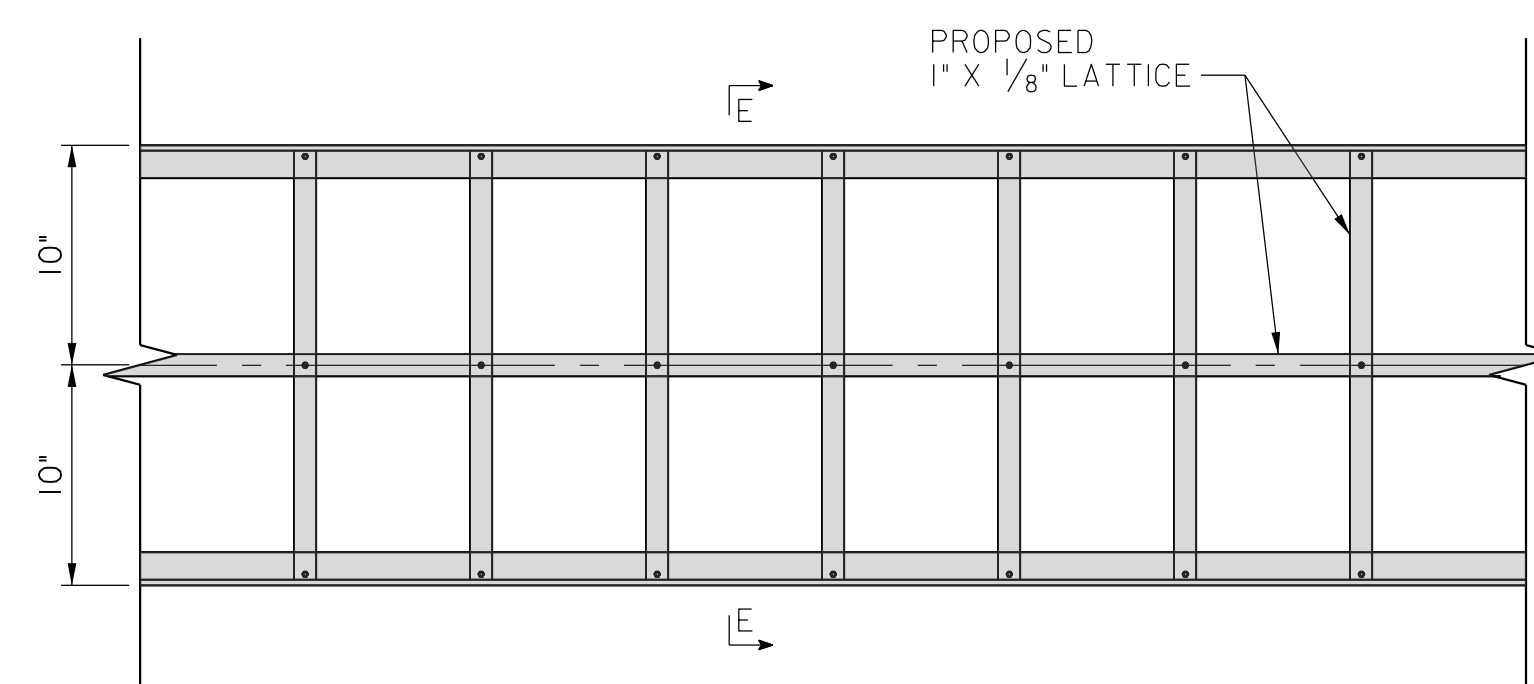


⑩ REPAIR VERTICAL MEMBER (C4x5.4) – ELEVATION VIEW
SCALE: 6" = 1'-0"

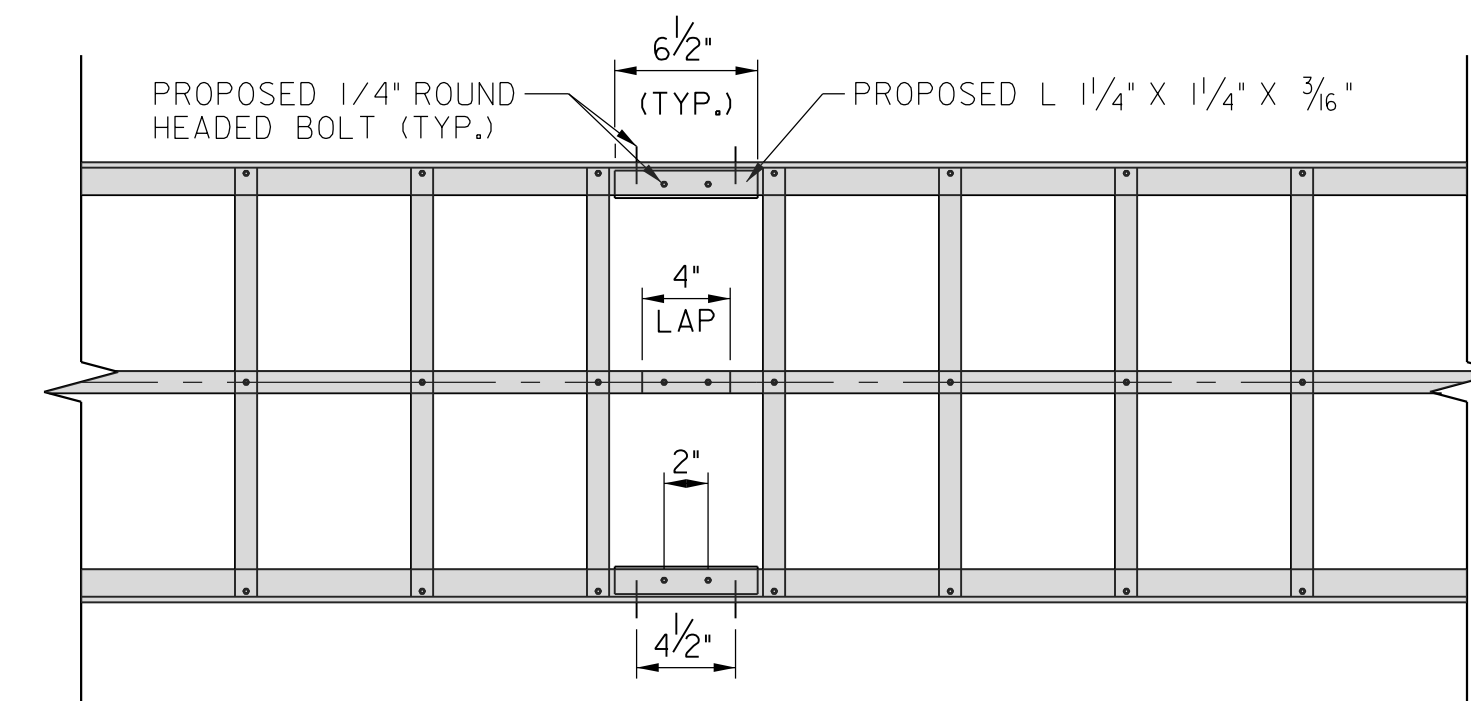
⑩ REPAIR VERTICAL MEMBER (C4x5.4) – SECTION B-B
SCALE: 6" = 1'-0"



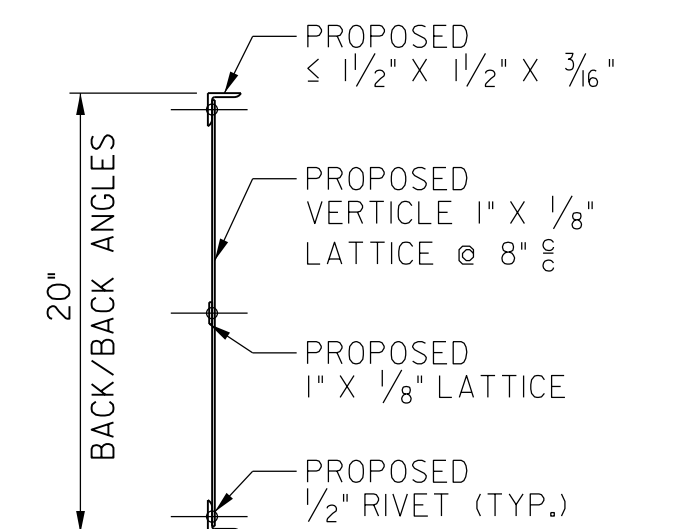
②③ REPLACE LATTICE RAILING – CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"



②③ REPLACE LATTICE RAILING – TYPICAL ELEVATION
SCALE: 1 1/2" = 1'-0"



②③ REPLACE LATTICE RAILING – TYPICAL RAIL SPLICE
SCALE: 1 1/2" = 1'-0"



②③ REPLACE LATTICE RAILING – SECTION E-E
SCALE: 1 1/2" = 1'-0"

S-07

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

REHABILITATION TO BRIDGE NO. F05-03 ON SIXES BRIDGE ROAD OVER MONOCACY RIVER

SUPERSTRUCTURE REPAIR DETAILS - 3

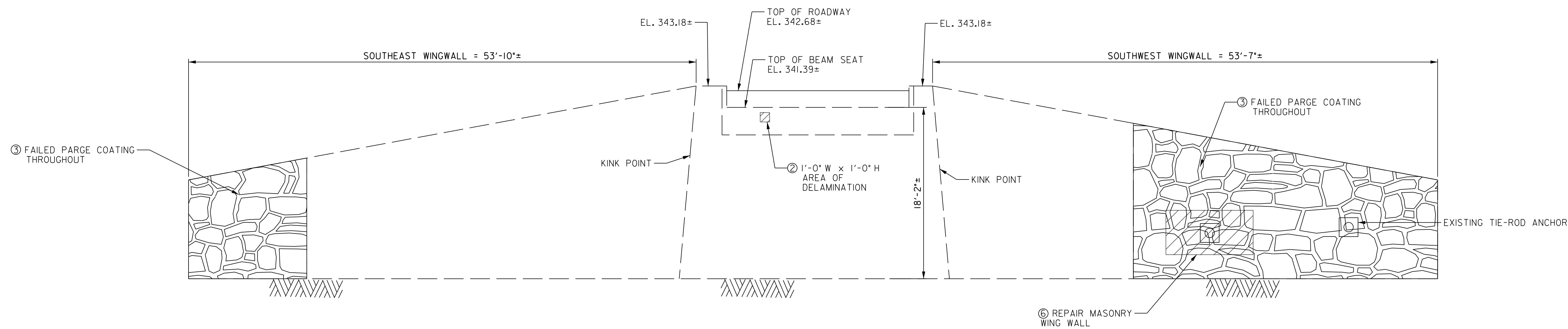
DATE: OCTOBER 2024

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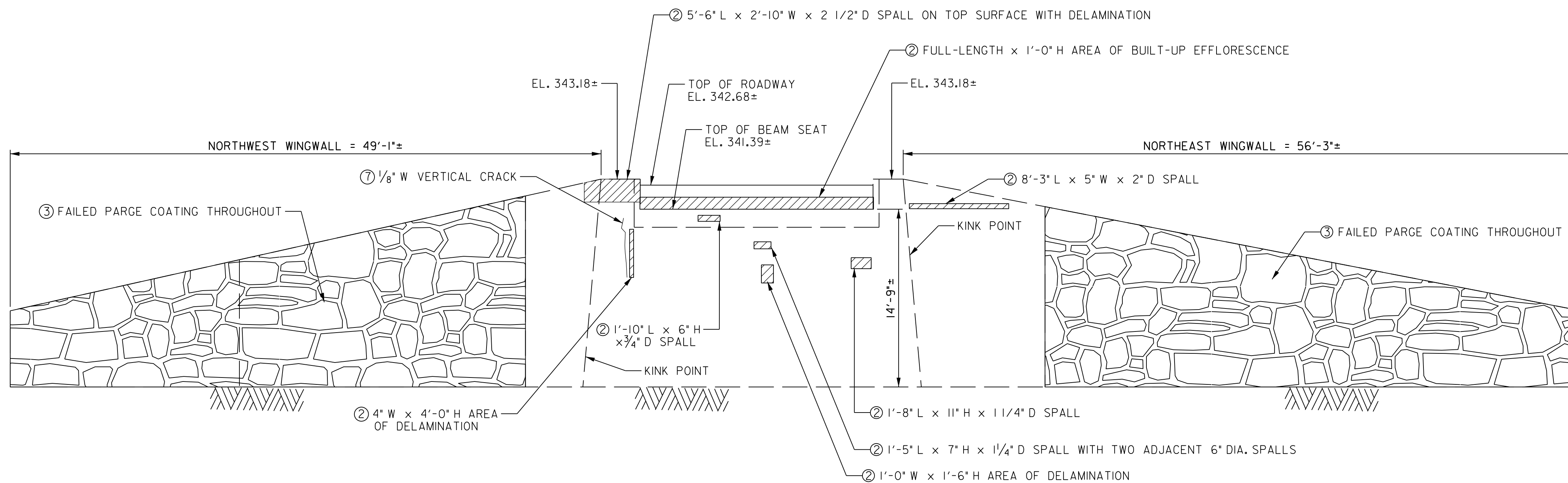
FREDERICK COUNTY PROJECT NO.: C6018.6018.01

DWG. 14 OF 21





ABUTMENT A ELEVATION
 SCALE: 1/8" = 1'-0"



ABUTMENT B ELEVATION
 SCALE: 1/8" = 1'-0"

SUMMARY OF SUBSTRUCTURE REPAIRS - ABUTMENTS AND WINGWALLS			
REPAIR NO.	REPAIR TYPE	REPAIR QUANTITY	BID QUANTITY
2	CONCRETE REPAIR	9 CF	12 SF
3	REPAIR FAILED PARGING/REPOINT MASONRY	890 SF	890 SF
6	EPOXY PRESSURE INJECTION	32 LF	32 SF
7	REPAIR MASONRY WING WALL	9 CF	26 SF



S-08

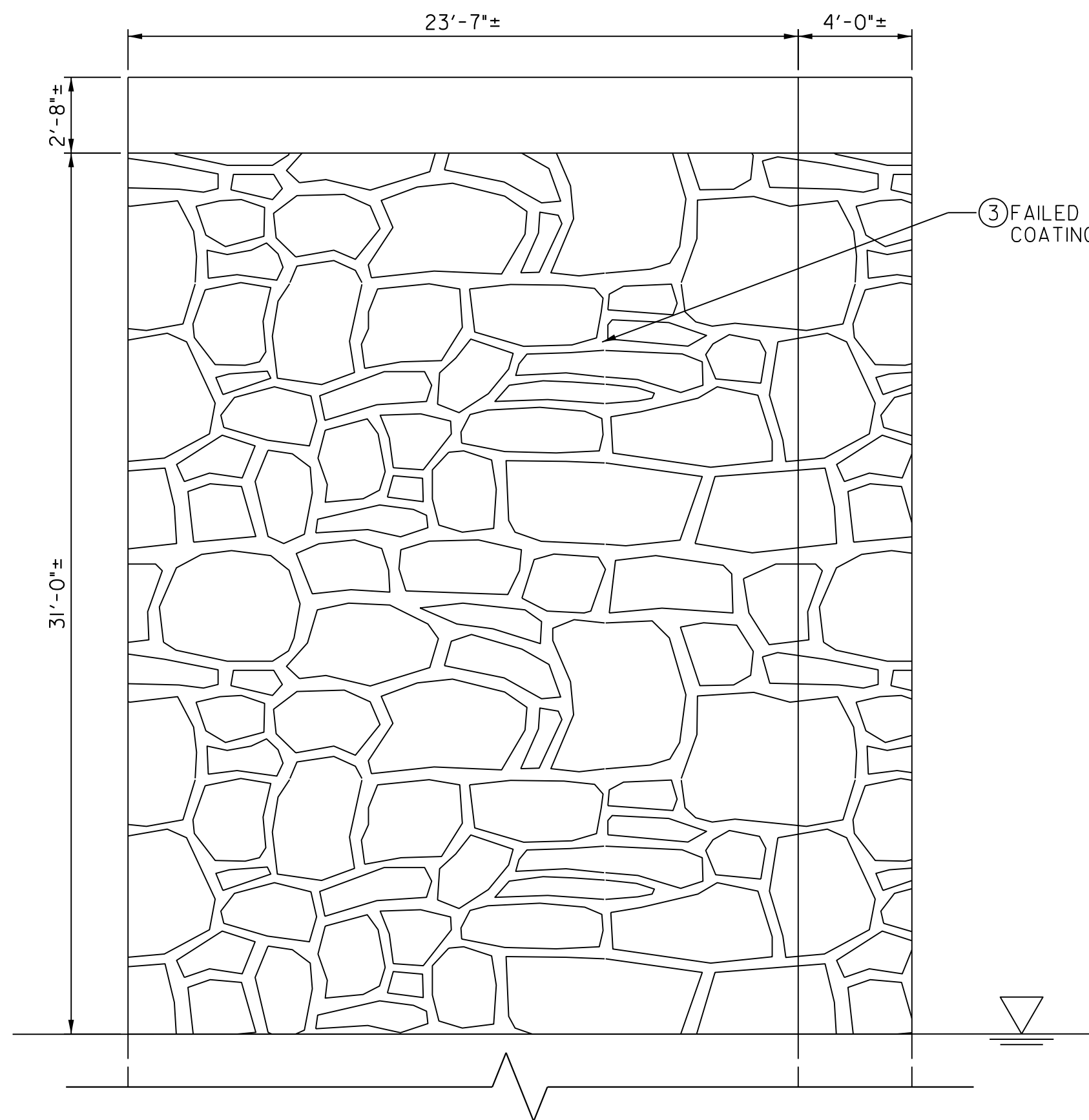
FREDERICK COUNTY, MARYLAND
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 OFFICE OF TRANSPORTATION ENGINEERING
 FREDERICK COUNTY, MARYLAND

REHABILITATION TO BRIDGE NO. F05-03 ON SIXES BRIDGE ROAD OVER MONOCACY RIVER

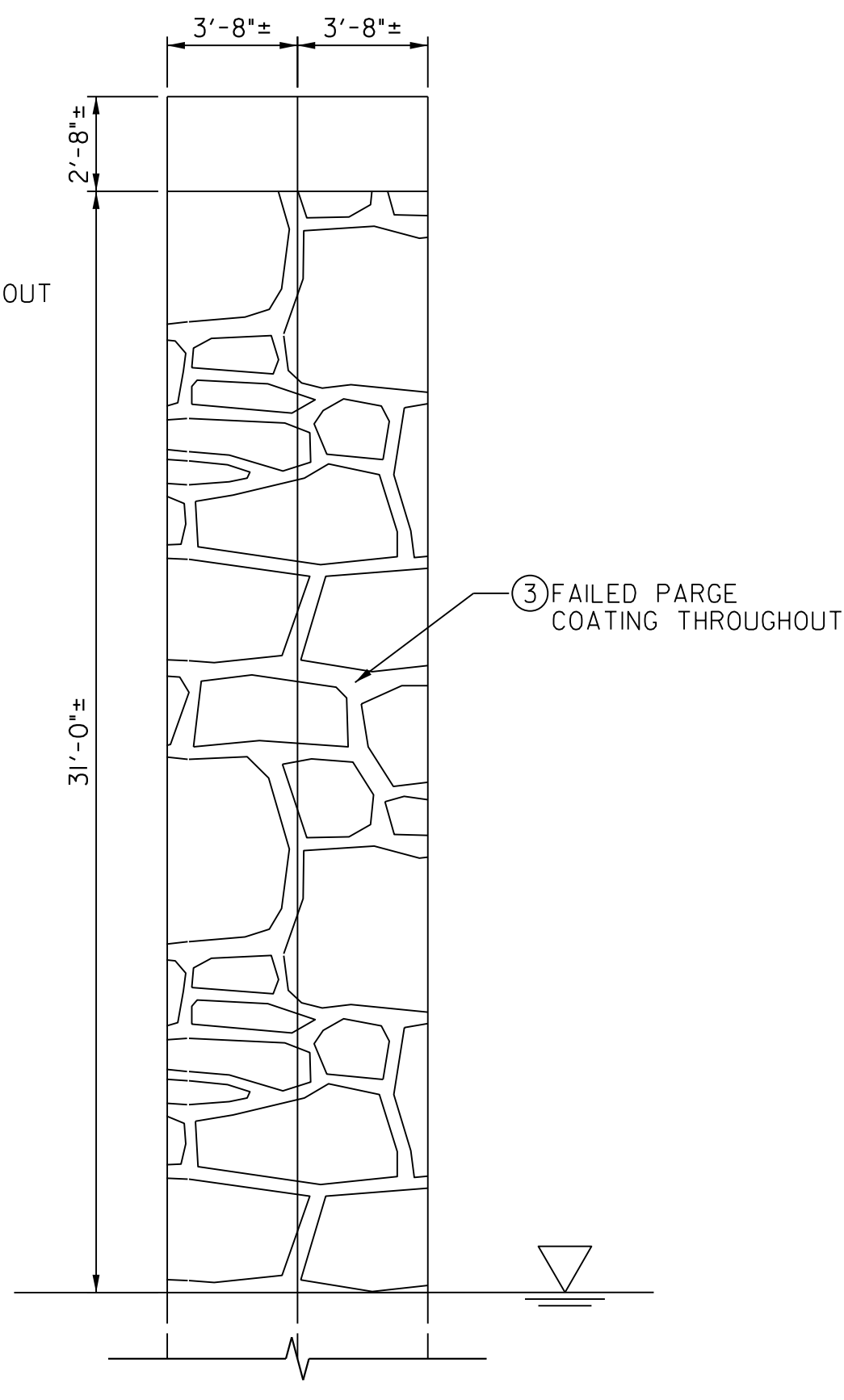
SUBSTRUCTURE REPAIR DETAILS - 1

DATE: OCTOBER 2024 SCALE:

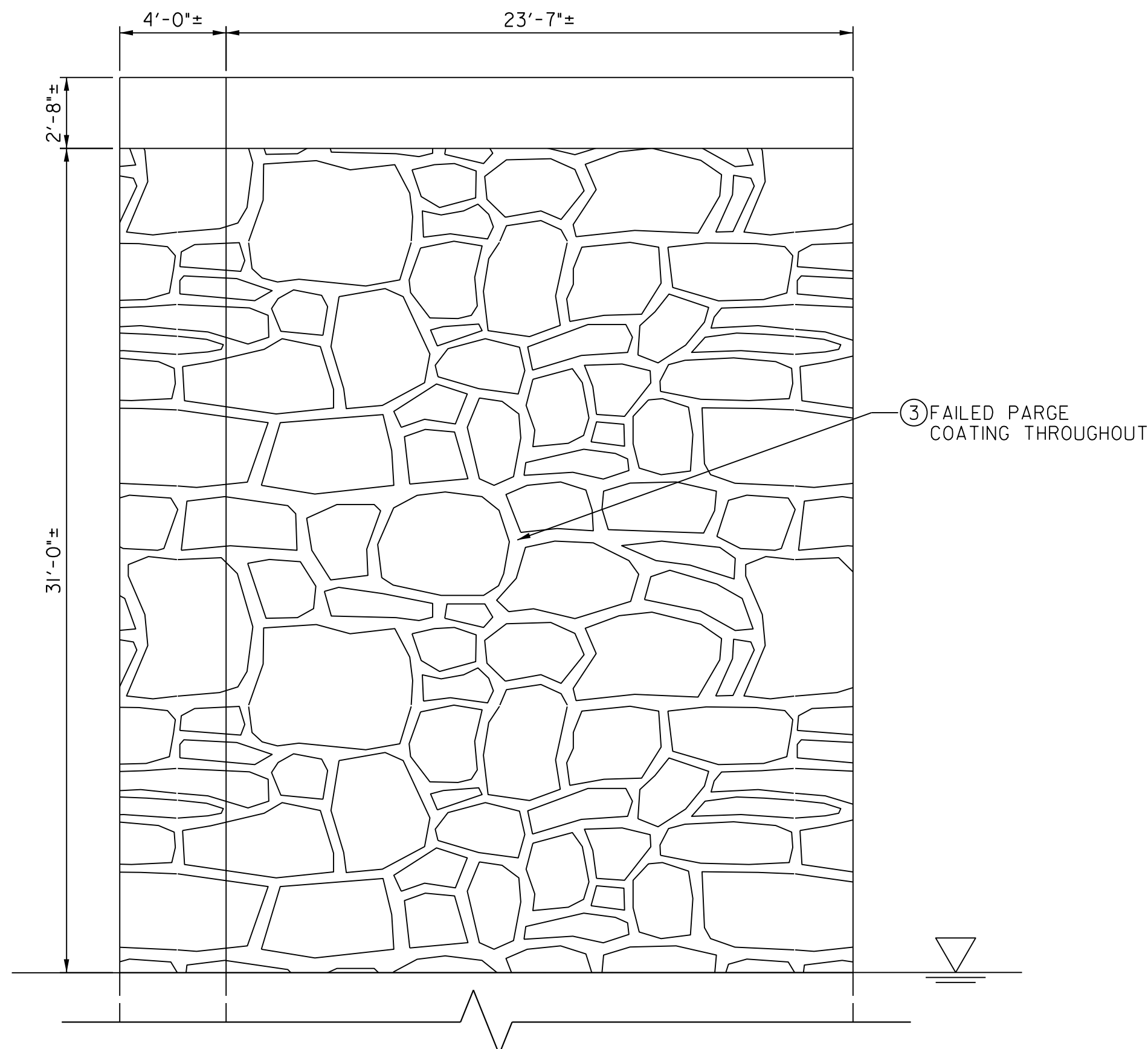
FREDERICK COUNTY PROJECT NO.: C6018.6018.01 DWG. 15 OF 21



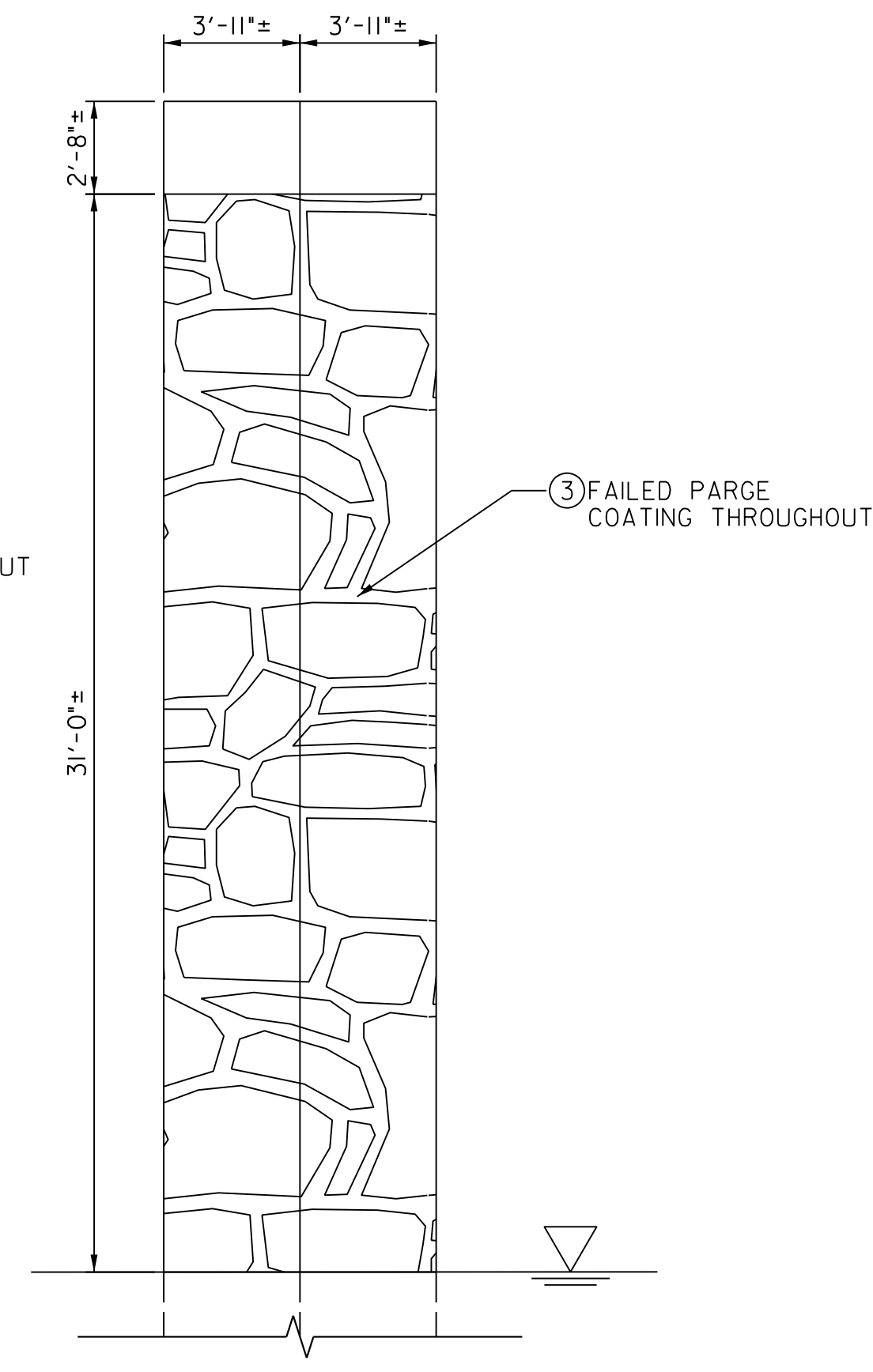
ELEVATION – SOUTH FACE
SCALE: 1/4" = 1'-0"



ELEVATION – EAST FACE
SCALE: 1/4" = 1'-0"



ELEVATION – NORTH FACE
SCALE: 1/4" = 1'-0"



ELEVATION – WEST FACE
SCALE: 1/4" = 1'-0"

SUMMARY OF SUBSTRUCTURE REPAIRS – PIER			
REPAIR NO.	REPAIR TYPE	REPAIR QUANTITY	BID QUANTITY
3	REPAIR FAILED PARGING/REPOINT MASONRY	1400 SF	1400 SF



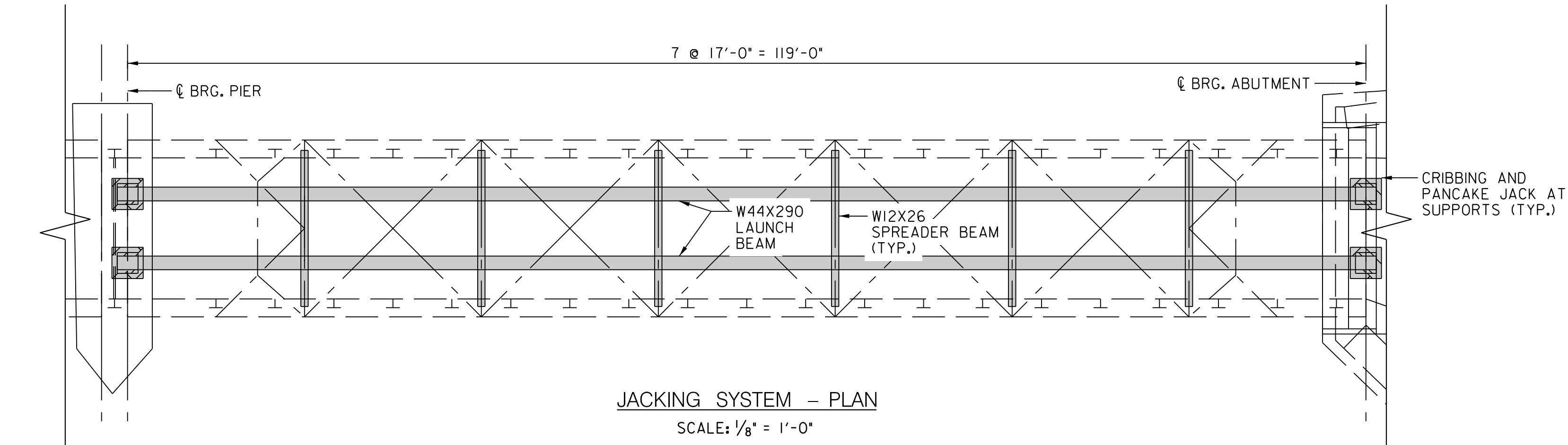
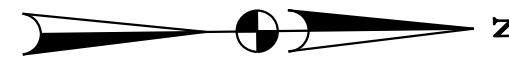
S-09

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**REHABILITATION TO BRIDGE NO.
F05-03 ON SIXES BRIDGE ROAD
OVER MONOCACY RIVER**

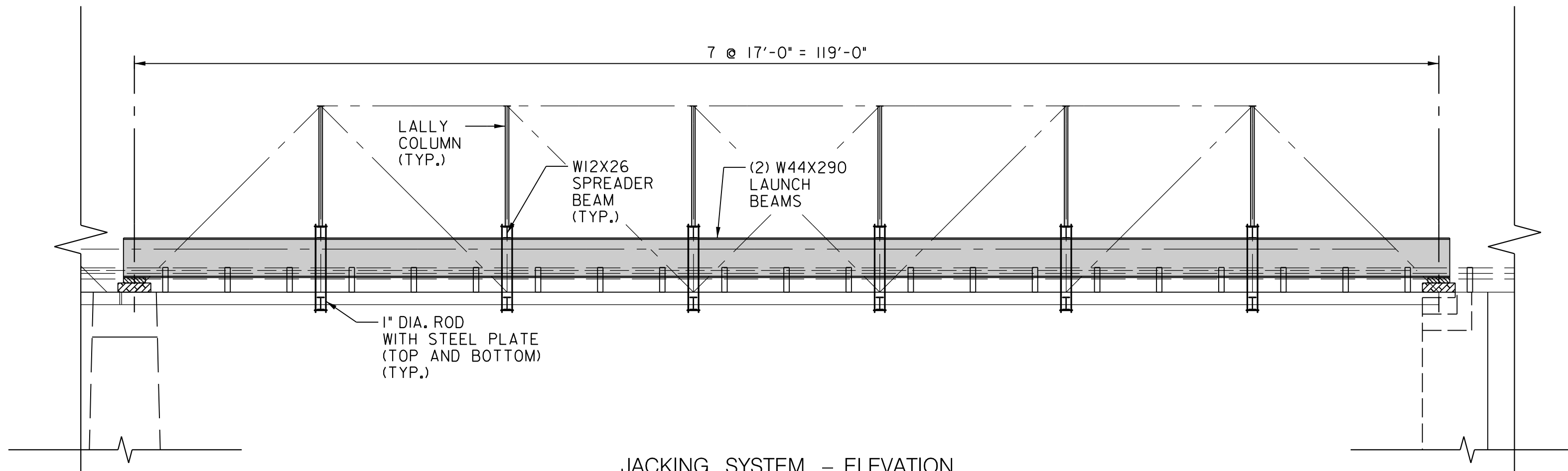
SUBSTRUCTURE DETAILS - 2

DATE: OCTOBER 2024 SCALE:
FREDERICK COUNTY PROJECT NO.: C6018.6018.01 DWG. 16 OF 21



JACKING SYSTEM - PLAN

SCALE: 1/8" = 1'-0"



JACKING SYSTEM - ELEVATION

SCALE: 1/8" = 1'-0"

NOTE:

1. JACKING SYSTEM SHOWN IS FOR ONE SPAN ONLY.
2. FOR JACKING SYSTEM FRAMING PLAN AN ELEVATION, SEE SHEET S-11.
3. FOR JACKING SYSTEM TYPICAL SECTION, SEE SHEET S-12.
4. FOR JACKING SYSTEM DETAILS, SEE SHEETS S-13 AND S-14.

JACKING SYSTEM INSTALLATION NOTES:

1. JACKING SYSTEM SHALL BE INSTALLED IN ONE SPAN AT A TIME.
2. INSTALL CRIBBING AND JACKING SYSTEM AT CENTERLINE BEARING OF EACH SUPPORT. ADEQUATELY SECURE THE CRIBBING TO THE EXISTING SUBSTRUCTURE.
3. FIELD INSTALL FIRST JACKING BEAM WITH FIELD SPLICES ACCORDING TO FRAMING PLAN.
4. FIELD INSTALL SECOND JACKING BEAM WITH FIELD SPLICES ACCORDING TO FRAMING PLAN.
5. CONTRACTOR SHALL MEASURE AND VERIFY LATERAL SPACING OF JACKING BEAM THROUGHOUT ENTIRE LENGTH IN ORDER TO ENSURE CHANNEL DIAPHRAGMS WILL FIT, PRIOR TO ASSEMBLE.
6. INSTALL CHANNEL DIAPHRAGMS AT EACH LOCATION.
7. INSTALL SPREADER BEAMS AT EACH FLOOR BEAM LOCATION.
8. INSTALL STEEL PLATES AND TIE RODS AS SHOWN ON THE SPREADER BEAM. NUTS ON THE TIE RODS MAY BE ADJUSTED AS NECESSARY TO ENSURE A SNUG CONNECTION WITH THE FLOOR BEAM.
9. JACK EACH END OF THE JACKING SYSTEM IN 1/4" INCREMENTS SIMULTANEOUSLY UNTIL ALL FLOOR BEAMS ARE FULLY ENGAGED WITH THE TIE-ROD AND STEEL PLATE SYSTEM AND LOAD IS ADEQUATELY CARRIED THROUGH THE JACKING SYSTEM.
10. INSTALL LALLY COLUMNS AS NECESSARY AT ENDS OF PANELS WHERE MEMBERS ARE BEING REPLACED OR REPAIRED. LALLY COLUMNS SHALL BE JACKED ONLY ENOUGH TO ENGAGE THE TOP TRANSVERSE TRUSS MEMBERS AND RELIEVE THE SELF WEIGHT. LALLY COLUMNS SHALL NOT EXHIBIT ANY UPWARD JACKING FORCE ON THE TOP TRANSVERSE MEMBERS.
11. DISASSEMBLE JACKING SYSTEM IN REVERSE ORDER AND REPEAT INSTALLATION STEPS IN NEXT SPAN.

S-10

FREDERICK COUNTY, MARYLAND
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FREDERICK COUNTY, MARYLAND

**REHABILITATION TO BRIDGE NO.
F05-03 ON SIXES BRIDGE ROAD
OVER MONOCACY RIVER**

**JACKING SYSTEM -
GENERAL PLAN AND ELEVATION**

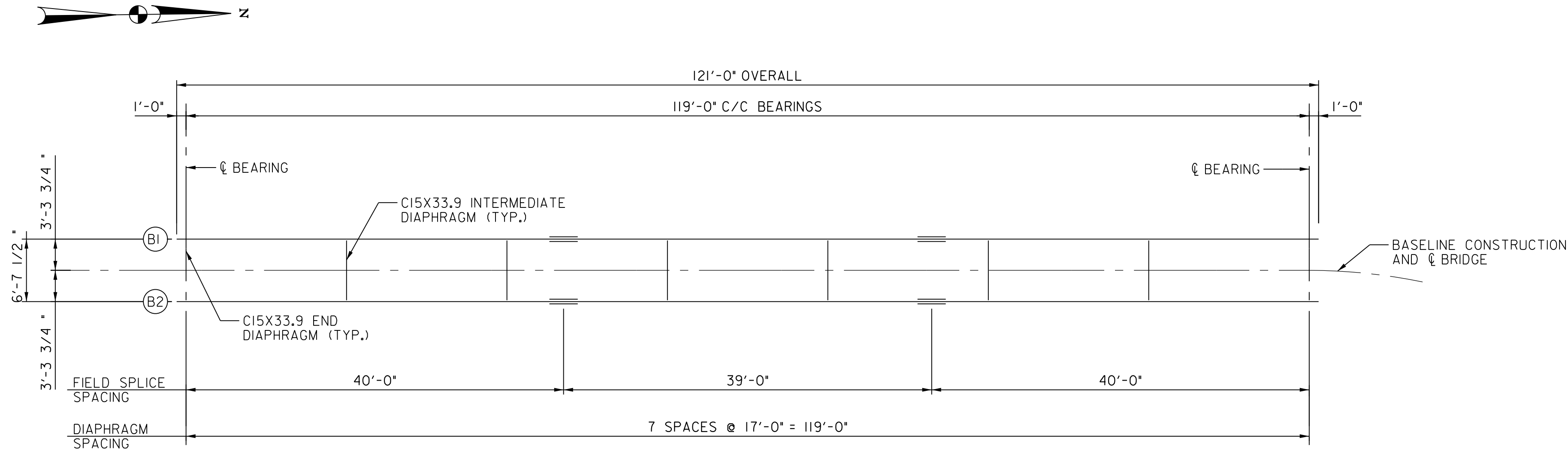
DATE: OCTOBER 2024

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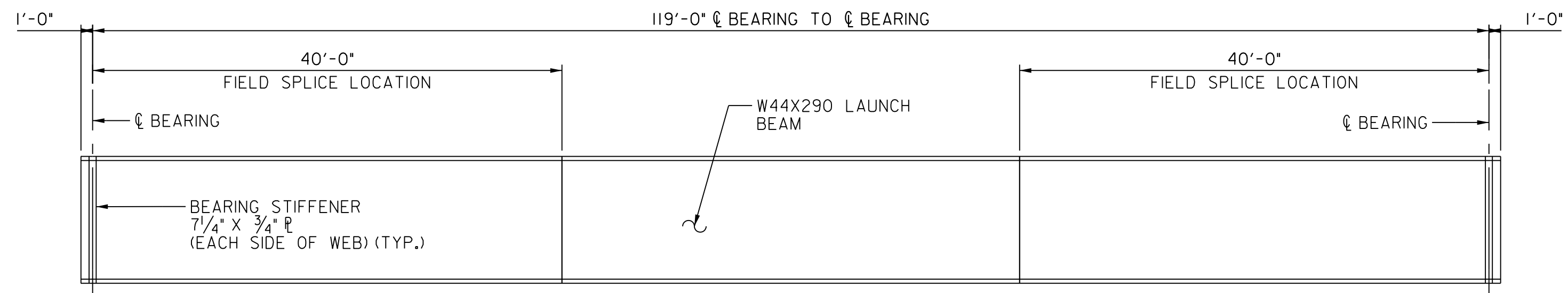
FREDERICK COUNTY PROJECT NO.:
C6018.6018.01

DWG. 17 OF 21





LAUNCH BEAM FRAMING PLAN
SCALE: 1/8" = 1'-0"



LAUNCH BEAM ELEVATION
HORIZONTAL SCALE: 1/8" = 1'-0"
VERTICAL SCALE: 3/8" = 1'-0"

CAMBER AND DEFLECTION TABLE									
LOCATION	CL BRG.	1/8	1/4	3/8	1/2	5/8	3/4	7/8	CL BRG.
A									
B									
C									

NOTES:

- FOR FRAMING PLAN, SEE SHEET NO. S-11
- FOR CROSS FRAME LOCATIONS SEE FRAMING PLAN ON SHEET NO. S-11
- FOR SPLICE DETAILS SEE SHEET NO. S-14

CAMBER AND DEFLECTION TABLE NOTES:

"A" = DEFLECTION DUE TO SELF-WEIGHT OF JACKING BEAM (IN.)

"B" = DEFLECTION ON JACKING BEAM DUE TO WEIGHT OF BRIDGE WITH DECK REMOVED, SPREADER BEAMS, AND CONSTRUCTION ACTIVITIES (IN.)

"C" = TOTAL CAMBER (IN.)

POSITIVE DEFLECTIONS ARE DOWNWARD DEFLECTIONS
POSITIVE CAMBERS ARE UPWARDS CAMBERS
THE CAMBER TOLERANCE IS NOTHING UNDER TO 3/4" OVER



S-11

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REHABILITATION TO BRIDGE NO. F05-03 ON SIXES BRIDGE ROAD OVER MONOCACY RIVER

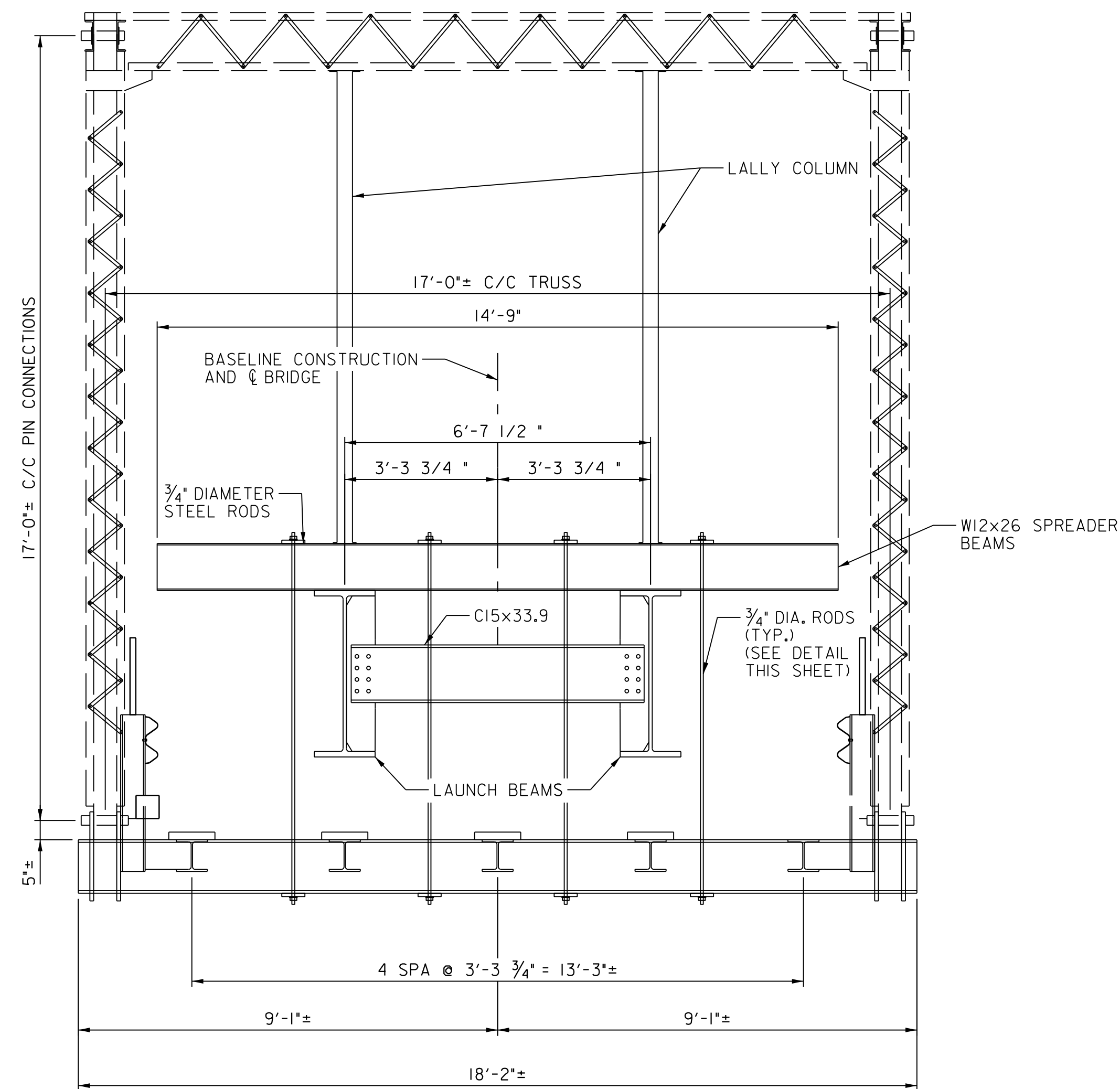
JACKING SYSTEM - FRAMING PLAN AND ELEVATION

DATE: OCTOBER 2024

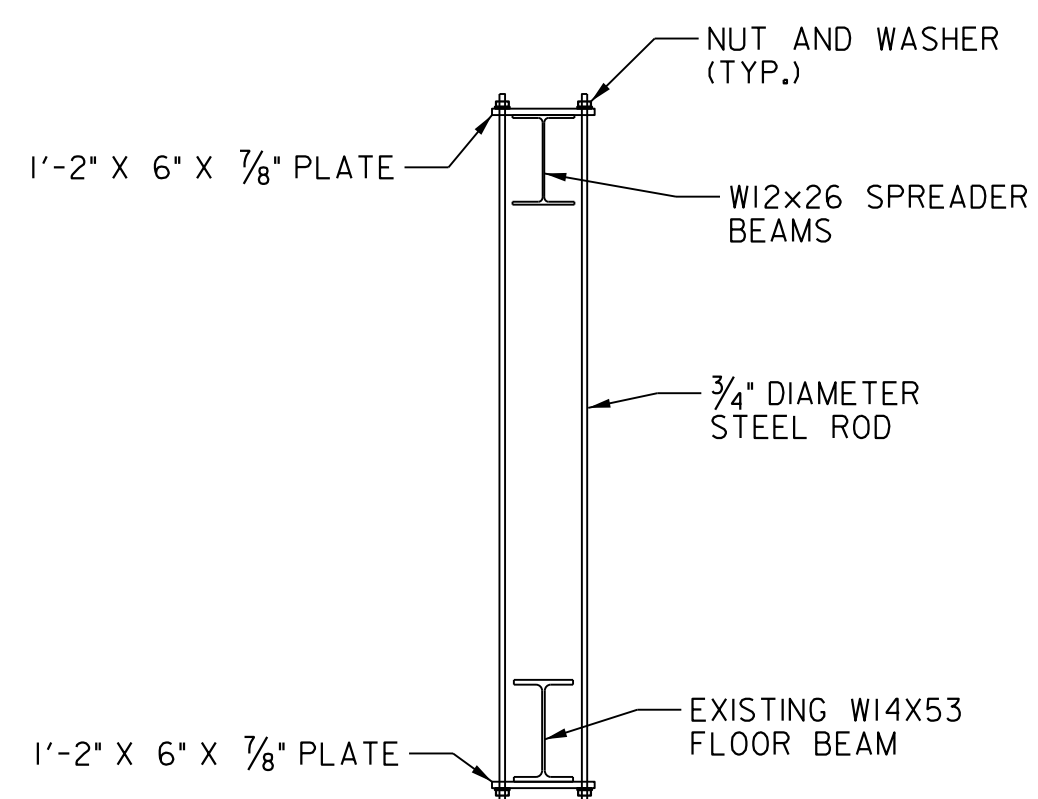
SCALE:

FREDERICK COUNTY PROJECT NO.: C6018.6018.01

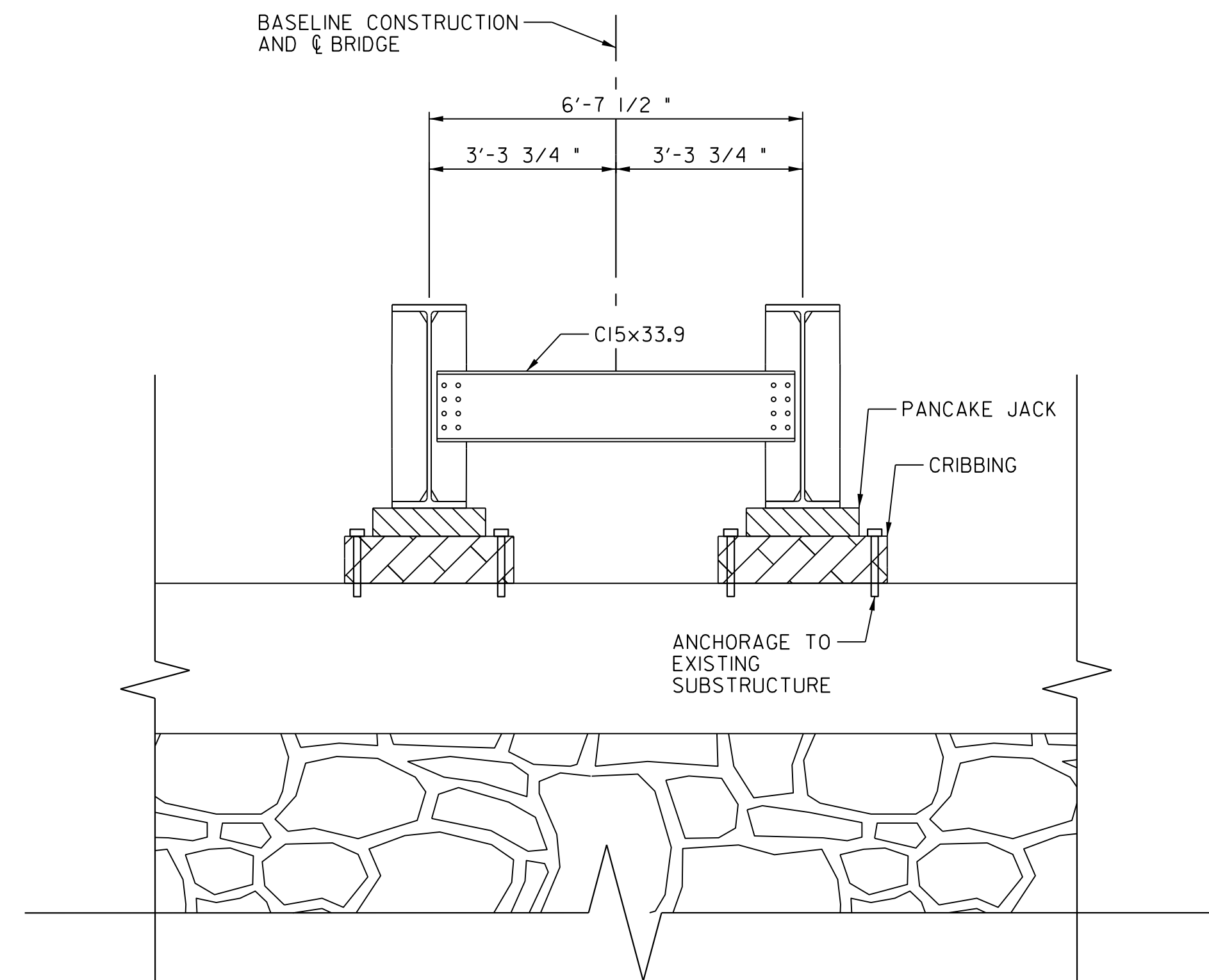
DWG. 18 OF 21



JACKING SYSTEM – TYPICAL SECTION AT MIDSPAN
SCALE: 1/2" = 1'-0"



TIE-ROD CONNECTION DETAIL
SCALE: 1/2" = 1'-0"



JACKING SYSTEM – TYPICAL SECTION AT BEARINGS
SCALE: 1/2" = 1'-0"

S-12

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FREDERICK COUNTY, MARYLAND

**REHABILITATION TO BRIDGE NO.
F05-03 ON SIXES BRIDGE ROAD
OVER MONOCACY RIVER**

**JACKING SYSTEM -
TYPICAL SECTION**

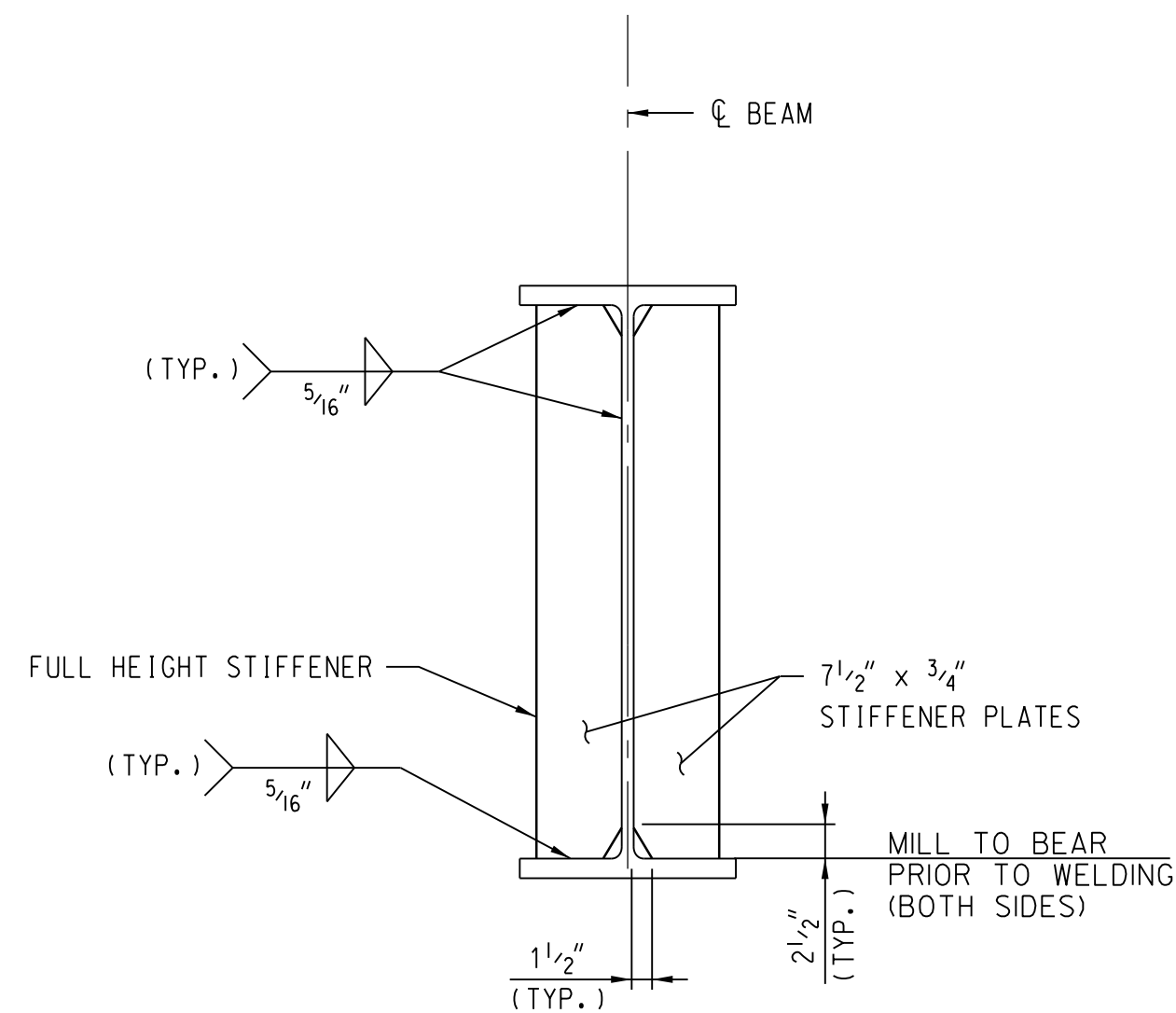
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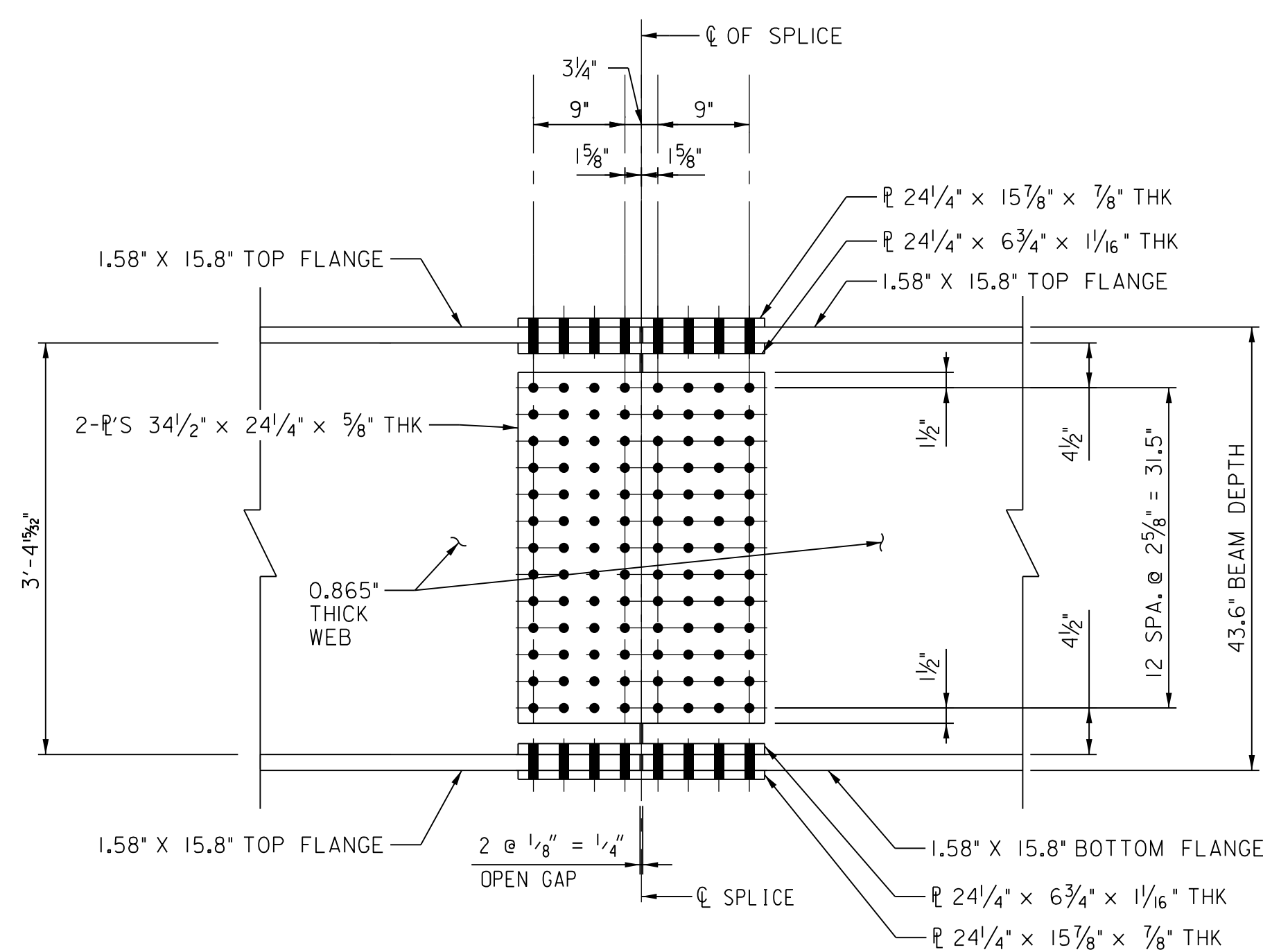
FREDERICK COUNTY PROJECT NO.:
C6018.6018.01

DWG. 19 OF 21

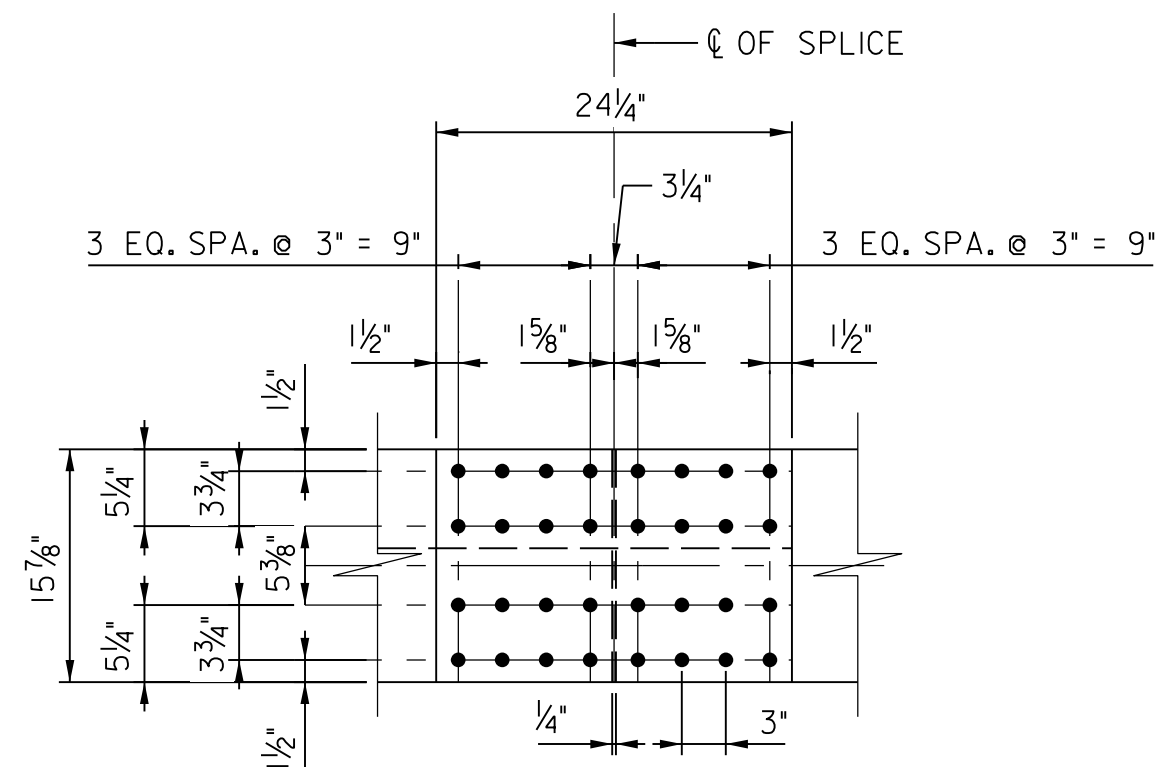




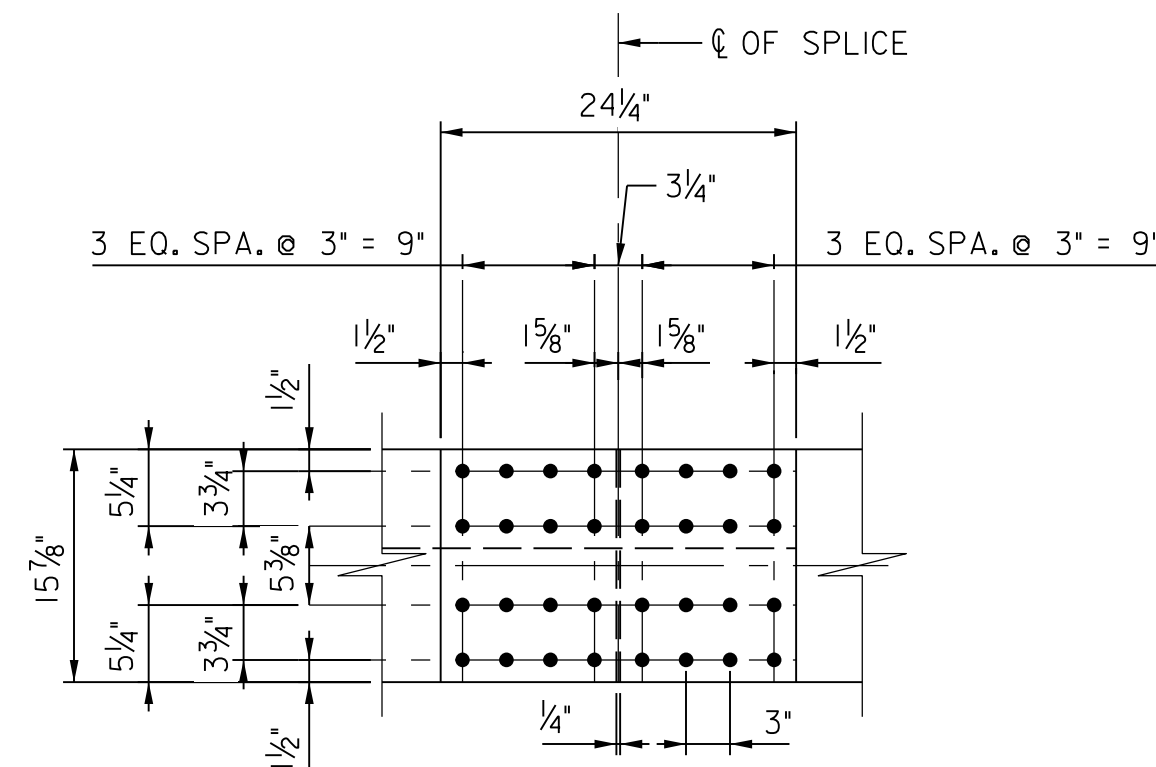
BEARING STIFFENERS AT ENDS OF LAUNCH BEAMS
SCALE: 1" = 1'-0"



WEB FIELD SPLICE DETAIL
SCALE: 1" = 1'-0"



TOP FLANGE FIELD SPLICE DETAIL
SCALE: 1" = 1'-0"



BOTTOM FLANGE FIELD SPLICE DETAIL
SCALE: 1" = 1'-0"

FIELD SPLICE NOTES:

1. FIELD SPLICES SHALL BE COMPLETELY SHOP ASSEMBLED AND MATCH MARKED AFTER ALL SHOP WELDING HAS BEEN COMPLETED. CONTACT SURFACES SHALL BE FREE OF ALL OIL AND DIRT.
2. HOLES TO BE 1 1/16" DIAMETER FOR 1" DIAMETER HIGH STRENGTH BOLTS (A325).
3. ALL BOLTS ON FLANGE SPLICES SHALL HAVE BOLT HEADS ON THE BOTTOM.
4. BOLTS NOT SHOWN IN SPLICE.

BEARING STIFFENER NOTES:

1. FOR WELD TERMINATION DETAILS, SEE DETAIL SUP-SS(GEN)-203.
2. FOR JACKING BEAM ELEVATION, SEE DWG. NO. S-11.



S-13

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F05-03 ON SIXES BRIDGE ROAD
OVER MONOCACY RIVER**

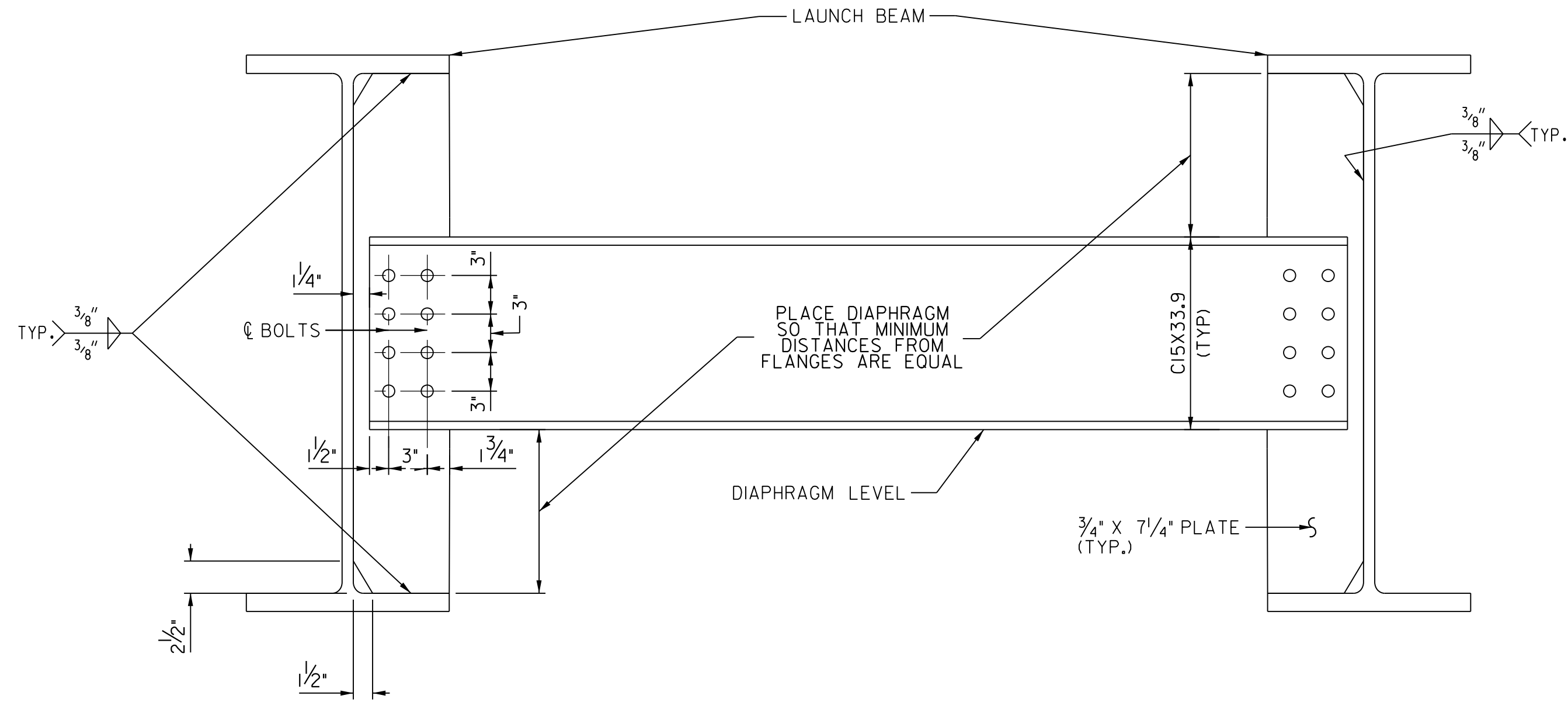
JACKING SYSTEM - DETAILS 1

DATE: OCTOBER 2024

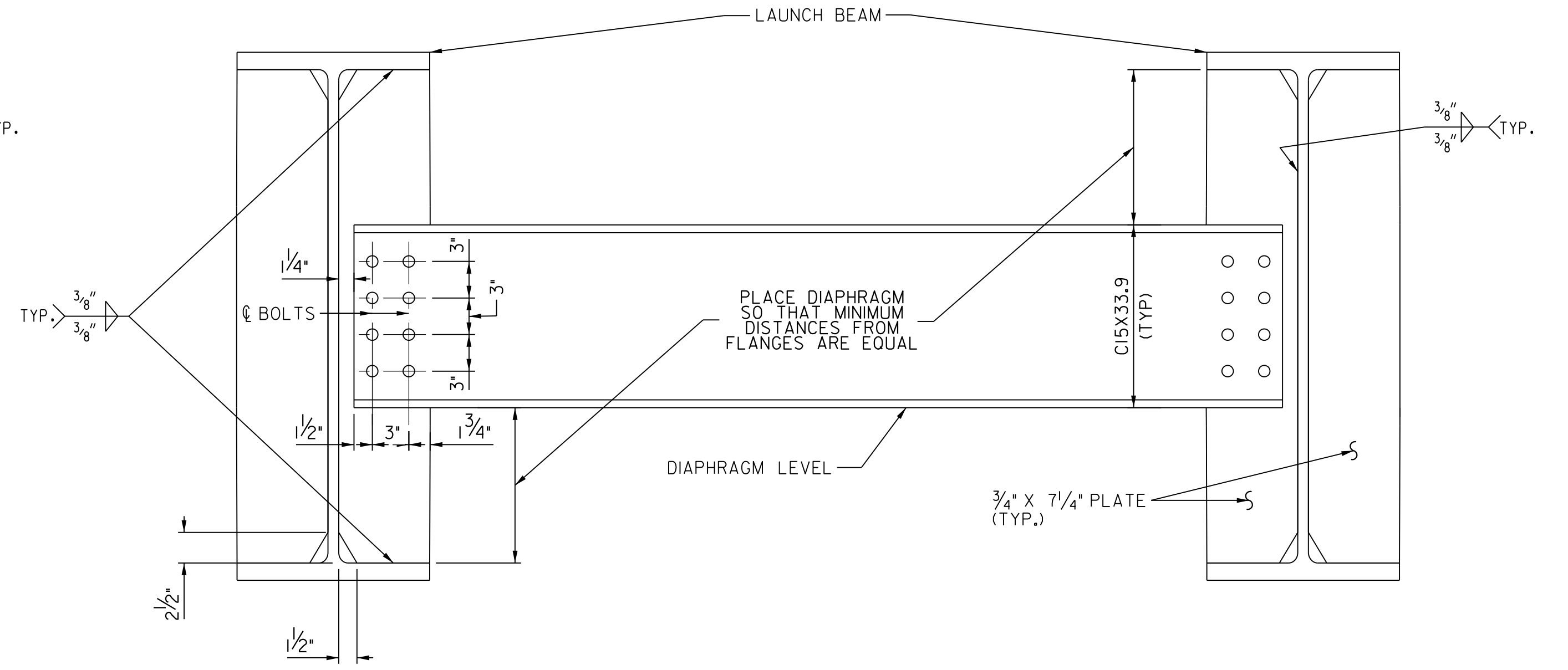
SCALE:

FREDERICK COUNTY PROJECT NO.:
C6018.6018.01

DWG. 20 OF 21



INTERMEDIATE DIAPHRAGM AND CONNECTION PLATE DETAILS
SCALE: 1/2" = 1'-0"



END DIAPHRAGM AND JACKING STIFFENER DETAILS
SCALE: 1/2" = 1'-0"

S-14

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**REHABILITATION TO BRIDGE NO.
F05-03 ON SIXES BRIDGE ROAD
OVER MONOCACY RIVER**

JACKING SYSTEM - DETAILS 2

DATE: OCTOBER 2024

SCALE:

FREDERICK COUNTY PROJECT NO.:
C6018.6018.01

DWG. 21 OF 21

