

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

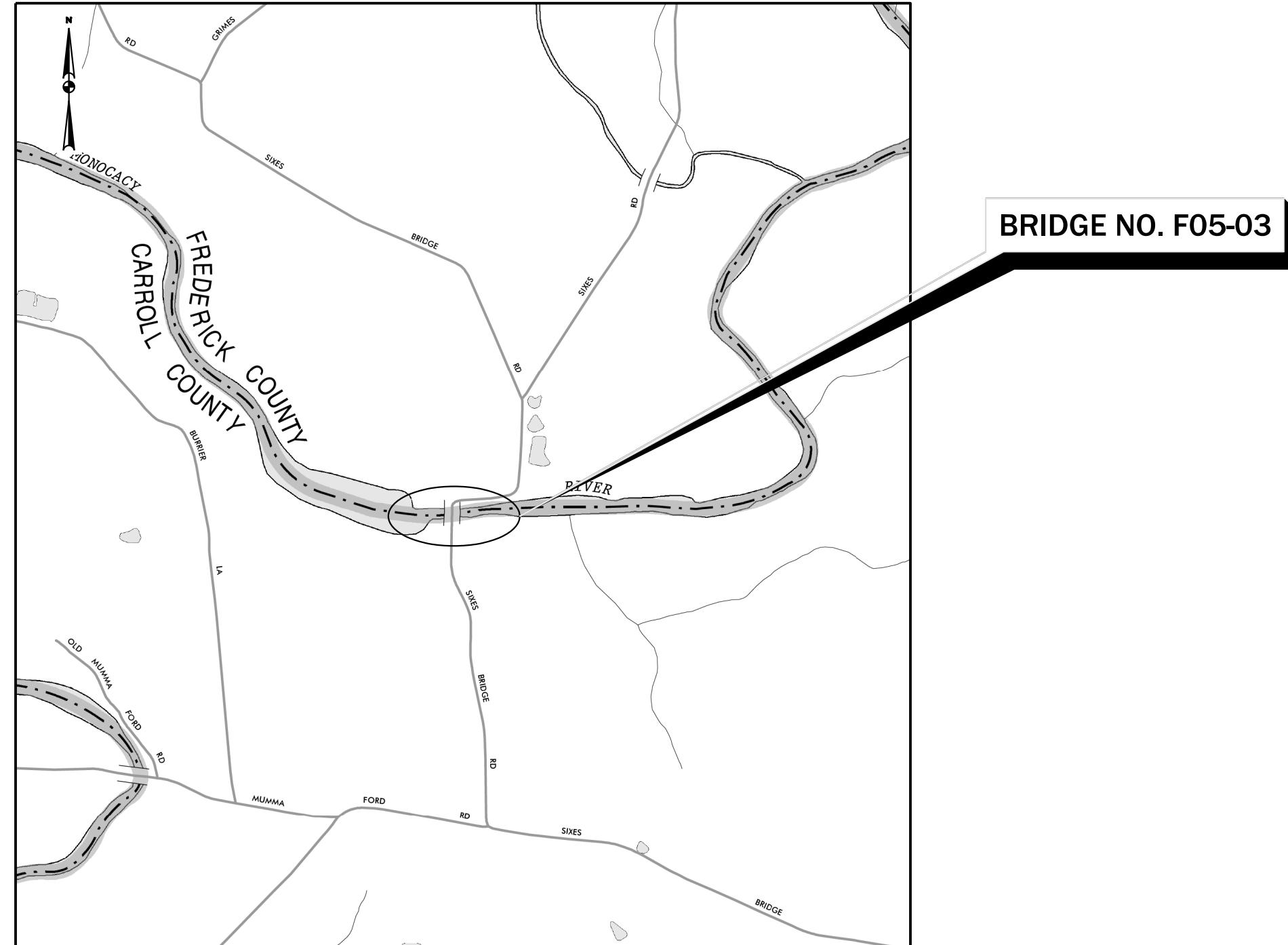
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

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



LOCATION MAP

SCALE: 1" = 100'

SURVEY INFORMATION

HORIZONTAL AND VERTICAL DATUM WERE ESTABLISHED 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			

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

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

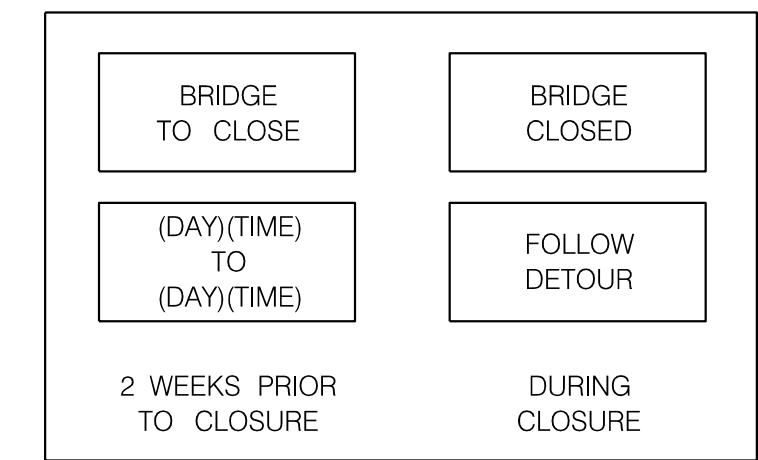
MAINTENANCE OF TRAFFIC GENERAL NOTES

1. 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.
2. NO WORK IS TO BEGIN UNTIL ALL ADVANCE WARNING SIGNS, DRUMS, AND PAVEMENT MARKINGS ARE IN PLACE AND OPERATIONAL AS APPROVED BY THE ENGINEER.
3. 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.
4. 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.
5. 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.
6. MISS UTILITY MUST BE NOTIFIED 72 HOURS PRIOR TO THE PLACEMENT OF SIGNING (800) 257-7777.
7. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH MDOT SHA MOT STANDARDS.
8. THE CONTRACTOR MUST COORDINATE WITH ADJACENT PROJECTS TO ENSURE THE DETOUR ROUTE DOES NOT HAVE TEMPORARY LANE CLOSURES.
9. 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

1. NOTIFY APPROPRIATE AGENCIES AS SHOWN UNDER "ROADWAY CLOSURE NOTIFICATION".
2. 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.
3. 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.
4. IMMEDIATELY PRIOR TO THE ROAD CLOSURE, UNCOVER ADVANCED WARNING AND DETOUR SIGNS AND CLOSE SIXES BRIDGE ROAD.
5. PERFORM WORK AS SHOWN ON THE PLANS.
6. AT THE END OF ROAD CLOSURE AND CONSTRUCTION, REMOVE ALL REMAINING WARNING, DETOUR, AND INFORMATIONAL SIGNS.

DETOUR PVMS DISPLAYS



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.

1. FREDERICK COUNTY SCHOOL TRANSPORTATION DIVISION
A. CONTACT MARK MISHLER
B. 301-600-6742
C. MMISHLER@FREDERICKCOUNTYMD.GOV
2. 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
3. FREDERICK COUNTY FIRE AND RESCUE SERVICES DIVISION
A. CONTACT MR. THOMAS COE
B. 301-600-1780
C. TCOE@FREDERICKCOUNTYMD.GOV
4. 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)
5. 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
6. FREDERICK COUNTY DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
A. CONTACT BRET FOUCHE, DEPARTMENT HEAD
B. 301-600-2222
C. BFFOUCHE@FREDERICKCOUNTYMD.GOV
7. FREDERICK COUNTY PUBLIC INFORMATION OFFICE
A. CONTACT VIVIAN LAXTON AND JOHN MONGAN
B. 301-600-1316 (VIVIAN); 301-600-6004
C. VLAXTON@FREDERICKCOUNTYMD.GOV AND JMONGAN@FREDERICKCOUNTYMD.GOV
8. FREDERICK COUNTY OFFICE OF HIGHWAY OPERATIONS
A. CONTACT MIKE RAMSBURG, SUPERINTENDENT
B. 301-600-1564; 301-600-2268 (MOBILE)
C. MRAMSBURG@FREDERICKCOUNTYMD.GOV
9. 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
10. 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); 301-624-8150 (SAM D.)
C. CRANKEN@MDOT.MARYLAND.GOV AND SDELAURENCE@MDOT.MARYLAND.GOV

MT-01

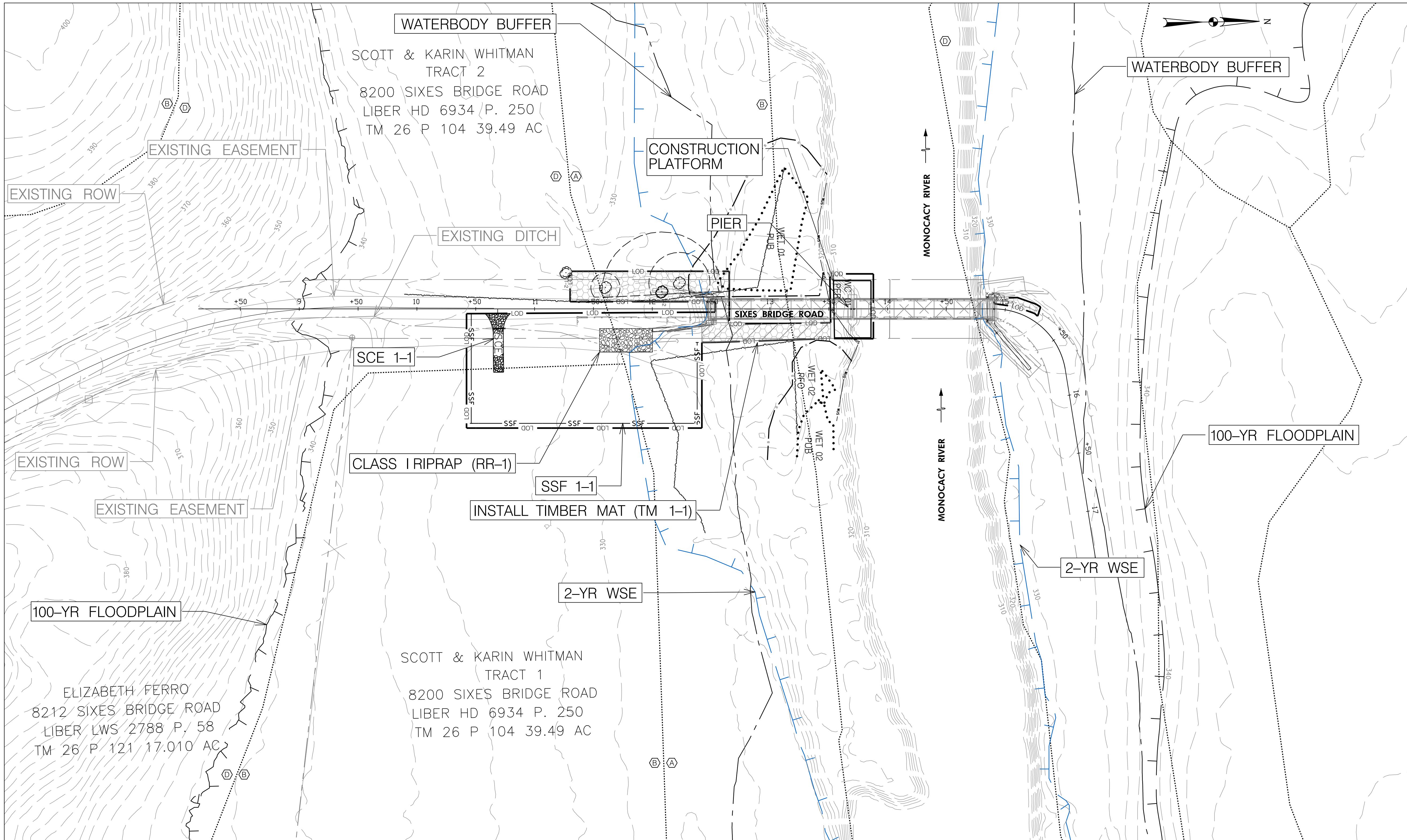
FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

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

**MAINTENANCE OF TRAFFIC
GENERAL NOTES**

DATE: OCTOBER 2024
SCALE: NTS
FREDERICK COUNTY PROJECT NO.: C6018.6018.01
DWG. 2 OF 21





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

— WUS — WATERS OF THE US (WUS)

SUPER SILT FENCE (SSF)
SSF I-I 354 LF SIXES BRIDGE ROAD STA. I0+46 TO STA. I2+38, RT.

STABILIZED CONSTRUCTION ENTRANCE (SCE)
SCE I-I 1EA, SIXES BRIDGE ROAD STA. I0+69, RT.

CLASS I RIPRAP
RR I-I 100 SY SIXES BRIDGE ROAD STA. II+55 TO STA. I2+0, RT.

TIMBER MAT
TM I-I 1,763 SF SIXES BRIDGE ROAD STA. I2+42 TO STA. I2+52, RT.

40' 0' 40' 80'

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

FREDERICK COUNTY SOIL CONSERVATION
EROSION AND SEDIMENT CONTROL PLAN APPROVAL
DATE: _____
DISTRICT MANAGER OR DESIGNEE
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.

ES-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 EROSION AND SEDIMENT CONTROL PLAN



DATE: OCTOBER 2024
SCALE:
FREDERICK COUNTY PROJECT NO.: C6018.6018.01
DWG. 4 OF 21

EROSION & SEDIMENT CONTROL GENERAL NOTES:

- ALL SOIL EROSION-SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" AND THE PROVISIONS OF THE APPROVED PLAN.
- 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.
- 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.
- 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.
- FOR INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, TEMPORARY OR PERMANENT STABILIZATION MUST BE COMPLETED WITHIN:
 - THREE (3) CALENDAR 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
 - SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
- STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 7 DAY STABILIZATION REQUIREMENT, AS WELL AS, STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION (AS APPLICABLE)
- 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.
- ALL STORM DRAIN AND SANITARY SEWER LINES NOT IN PAVED AREAS ARE TO BE SEADED AND MULCHED WITHIN 3 DAYS OF INITIAL BACKFILL UNLESS OTHERWISE SPECIFIED ON PLANS.
- ELECTRIC POWER, TELEPHONE, AND GAS LINES ARE TO BE COMPAKTED, SEADED, AND MULCHED WITHIN 3 DAYS AFTER INITIAL BACKFILL UNLESS OTHERWISE SPECIFIED ON PLANS.
- NO SLOPE SHALL BE GREATER THAN 2:1
- 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.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SEDIMENT AND EROSION CONTROL MEASURES UNTIL DISTURBED AREAS ARE STABILIZED.
- AFTER FINE GRADING, ALL DISTURBED AREAS ARE TO BE PERMANENTLY SEADED AND MULCHED IN ACCORDANCE WITH PERMANENT SEEDING NOTES SHOWN HEREON.
- ALL SOIL AND/OR BORROW MUST COME FROM AND GO TO A SITE WITH AN APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- CONTRACTOR TO ONLY OPEN UP LENGTH OF TRENCH THAT CAN BE CONSTRUCTED AND BACKFILLED IN ONE WORKING DAY IN PAVED AREAS.
- CONTRACTOR TO PLACE EXCAVATED MATERIALS IN A DUMP TRUCK AND HAUL TO AN APPROVED LOCATION FOR WASTE MATERIALS IN PAVED AREAS.
- 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.
- IF DEWATERING OF THE TRENCH IS REQUIRED, CONTRACTOR TO PUMP WATER TO AN APPROVED DEWATERING DEVICE.
- CONTRACTOR TO SWEEP STREETS OF ANY DEBRIS OR SEDIMENT CAUSED BY CONSTRUCTION OPERATIONS AND DISPOSE OF AT AN APPROVED LOCATION.
- CONTRACTOR TO STABILIZE ALL DISTURBED AREAS WITH SEED & MULCH OR APPROPRIATE STREET REPAIR.

TEMPORARY SEEDING NOTES:

GENERAL

- PLANTING SHORT TERM VEGETATION TO STABILIZED, CLEARED OR GRADED AREAS SUBJECT TO EROSION FOR A PERIOD OF 7 DAYS OR MORE.
- 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.
- SEDIMENT & EROSION CONTROL: ALL PERIMETER CONTROL MUST BE STABILIZED IN 3 DAYS. ALL INTERIOR CONTROLS MUST BE STABILIZED IN 7 DAYS

SPECIFICATIONS

- SITE PREPARATIONS:
 - PRIOR TO SEEDING INSTALL ALL REQUIRED SEDIMENT AND EROSION CONTROL MEASURES.
 - FINAL GRADING NOT REQUIRED FOR TEMPORARY SEEDING.
- SOIL AMENDMENTS:
 - FERTILIZER SHALL BE APPLIED AT THE RATE OF 800 LBS/ACRES USING 10-10-10 OR EQUIVALENT
 - ACID SOILS SHALL BE LIMED.
- SEEDBED PREPARATION:
 - SOIL SHALL BE LOOSENERED TO A DEPTH OF 3 INCHES BY RAKING, DISKING, OR OTHER ACCEPTABLE MEANS PRIOR TO SEEDING.
- SEEDING:
 - SELECT A MIXTURE FROM TABLE B.1 IN THE STANDARD SPECIFICATIONS.
 - APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER DRILL, CULTIPACKER OR HYDRO SEEDER.
- MULCHING:
 - MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. MULCH MATERIALS AND APPLICATIONS SHALL CONFORM TO THE STANDARD SPECIFICATIONS.

PERMANENT SEEDING NOTES:

GENERAL

- PLANTING PERMANENT, LONG LIVED VEGETATIVE COVER ON GRADED OR CLEARED AREAS.
- 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

- SITE PREPARATIONS:
 - PRIOR TO SEEDING INSTALL ALL REQUIRED SEDIMENT AND EROSION CONTROL MEASURES.
 - FINAL GRADING IS REQUIRED FOR PERMANENT SEEDING.
- SOIL AMENDMENTS:
 - FERTILIZER SHALL BE APPLIED AT THE RATE OF 800 LBS/ACRES USING 10-10-10 OR EQUIVALENT
 - ACID SOILS SHALL BE LIMED.
- SEEDBED PREPARATION:
 - SOIL SHALL BE LOOSENERED TO A DEPTH OF 3 INCHES BY RAKING, DISKING, OR OTHER ACCEPTABLE MEANS PRIOR TO SEEDING.
- SEEDING:
 - SELECT A MIXTURE FROM TABLE B.3 IN THE STANDARD SPECIFICATIONS.
 - APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER DRILL, CULTIPACKER OR HYDRO SEEDER. (SLURRY INCLUDES SEED AND FERTILIZER ON A FIRM, MOIST SEADED.) MAXIMUM SEEDING DEPTH SHOULD BE 14 INCH ON CLAYEY SOILS AND 12 INCH ON SANDY SOILS, WHEN USING OTHER THAN HYDROSEEDER METHOD OF APPLICATION.

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.

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

SEQUENCE OF CONSTRUCTION

- OBTAI 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 DISTURBANCE 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.
- ONCE THE NOTICE OF INTENT IS OBTAINED, CLEAR AND GRUB FOR THE INSTALLATION OF ALL ESC CONTROLS AND DEVICES.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE (SCE 1-1) AND SUPER SILT FENCE (SSF 1-1) FOR THE PROJECT SITE.
- 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.
- ONCE APPROVED, START BUILDING TEMPORARY BEAM SYSTEM BRIDGE ON BRIDGE DECK AND JACK EACH END.
- 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.
- REPLACE GUIDERAIL AT SOUTH END OF BRIDGE AND ADD GUIDERAIL AT NORTH END OF BRIDGE USING SAME DAY STABILIZATION.
- INSTALL RIPRAP ON THE SLOPE AS SHOWN ON THE PLAN.
- AT THE CONCLUSION OF EACH WORK DAY, STABILIZE ALL DISTURBED AREAS WITHIN THE WORK AREA.
- REPEAT STEPS 5 & 6 UNTIL ALL MASONRY WORK ALONG THE PIER IS COMPLETED.
- 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 301-694-1579 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 PENALTIES 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 CONTROL MEASURE (IF USING BASIN SEE #6 BELOW)	
3. PRIOR TO MODIFICATION OR REMOVAL OF SED. CONTRL.	
4. INFILTRATION SYSTEMS <ul style="list-style-type: none"> A. SITE READINESS PER SEQUENCE OF CONSTRUCTION B. INFILTRATION AREA, PROTECTED FROM SEDIMENTATION C. DIMENSIONS D. FILTERING MATERIAL E. FILL MATERIAL F. SIZE, PLACEMENT, TYPE OF PIPING G. OBSERVATION WELL H. COVER/STABILIZATION 	
5. OPEN CHANNEL FLOW ATTENUATION <ul style="list-style-type: none"> A. SITE READINESS PER SEQUENCE OF CONSTRUCTION B. CROSS SECTION CONFORMANCE C. MATERIAL (TYPE/SIZE) D. STABILIZATION 	
6. RETENTION/DETENTION STRUCTURES (BASIN/PONDS) <ul style="list-style-type: none"> A. SURFACE PREPARATION <ul style="list-style-type: none"> 1. CORE TRENCH 2. SURFACE MATERIAL/ COMPACTION B. EMBANKMENT CONSTRUCTION <ul style="list-style-type: none"> 1. SURFACE MATERIAL/COMPACTION 2. SLOPE GRADE 3. DIMENSIONS C. BARRIER AND RISER ASSEMBLY <ul style="list-style-type: none"> 1. CORRECT MATERIAL ON SITE 2. SIZING 3. ANTI-SHEEP COLLARS 4. ANTI-ROTATION DEVICE 5. CONCRETE CRADLE (RCP ONLY) 6. INSTALLATION /BACKFILL/COMPACTION D. CONCRETE STRUCTURES <ul style="list-style-type: none"> 1. FORMER DIMENSIONS 2. REINFORCING MATERIAL (TYPE, SIZE, PLACEMENT) 3. WEIR POOL/MATERIAL/SLUMP TEST 4. FORM STRIP AND FINISHING E. IMPOUNDING AREA <ul style="list-style-type: none"> 1. LOW FLOW CHANNELS/STABILIZATION 2. DEMARSHING DEVICE 3. EMERGENCY SPILLWAY 4. EXTENDED DETENTION DEVICE 5. OUTFALL AREA (LEVEL SPREADER, RIPRAP CHANNEL, ETC.) F. VEGETATIVE STABILIZATION G. MISCELLANEOUS 	

FREDERICK COUNTY SOIL CONSERVATION
EROSION AND SEDIMENT CONTROL PLAN APPROVAL

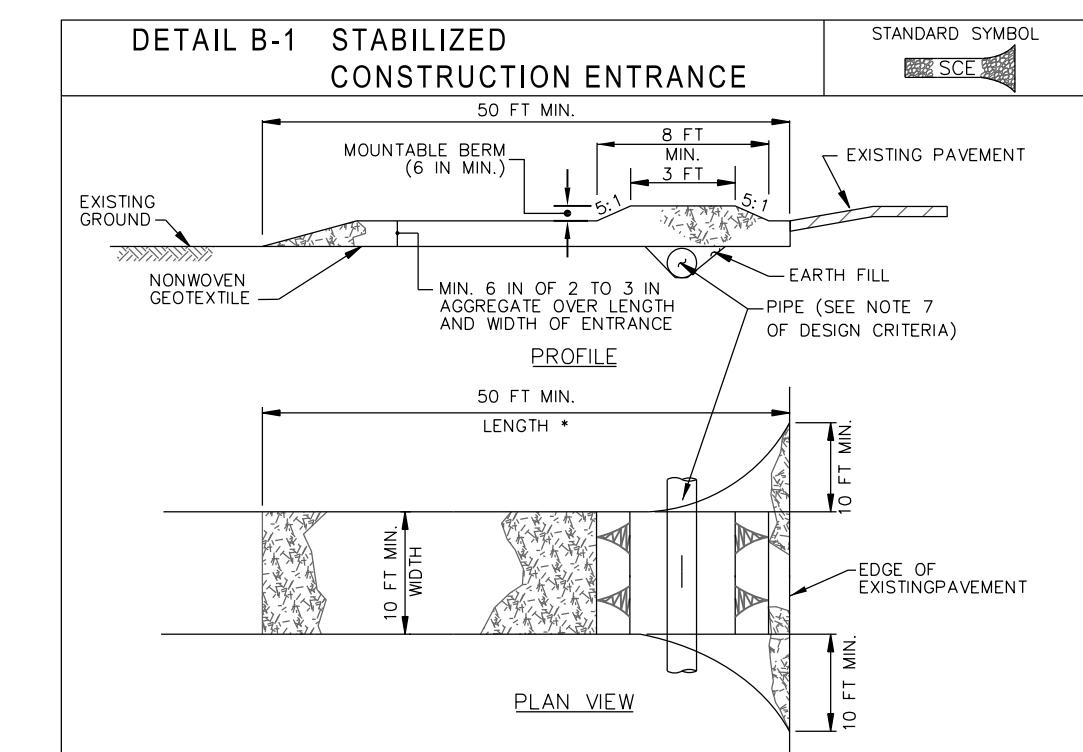
DISTRICT MANAGER OR DESIGNEE
DATE: _____
PLAN IS VALID FOR 2 YEARS FROM DATE OF APPROVAL

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 ISSUEMENT OF ALL APPLICABLE REGULATORY PERMITS.



EN-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
EROSION & SEDIMENT CONTROL NOTES-1
DATE: OCTOBER 2024 SCALE: N.T.S.
FREDERICK COUNTY PROJECT NO.: C6018.6018.01 DWG. 5 OF 21

LEGEND			
AT-GRADE INLET PROTECTION		PLUNGE POOL	
BAFFLE BOARDS		PORTABLE SEDIMENT TANK	
BENCHING		REMOVABLE PUMPING STATION	
CLEAR WATER DIVERSION PIPE		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		SILT FENCE ON PAVEMENT	
EMERGENCY SPILLWAY		STABILIZED CONSTRUCTION ENTRANCE	
FILTER BAG		STANDARD INLET PROTECTION	
FILTER BERM		STONE CHECK DAM	
FILTER LOG		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		TEMPORARY SOIL STABILIZATION MATTING CHANNEL	
PERMANENT SOIL STABILIZATION MATTING SLOPE		TEMPORARY SOIL STABILIZATION MATTING SLOPE	
PIPE OUTLET SEDIMENT TRAP ST I		TEMPORARY STONE OUTLET STRUCTURE	
PIPE SLOPE DRAIN		TEMPORARY SWALE	
VERTICAL DRAW-DOWN DEVICE		WASH RACK OPTION	



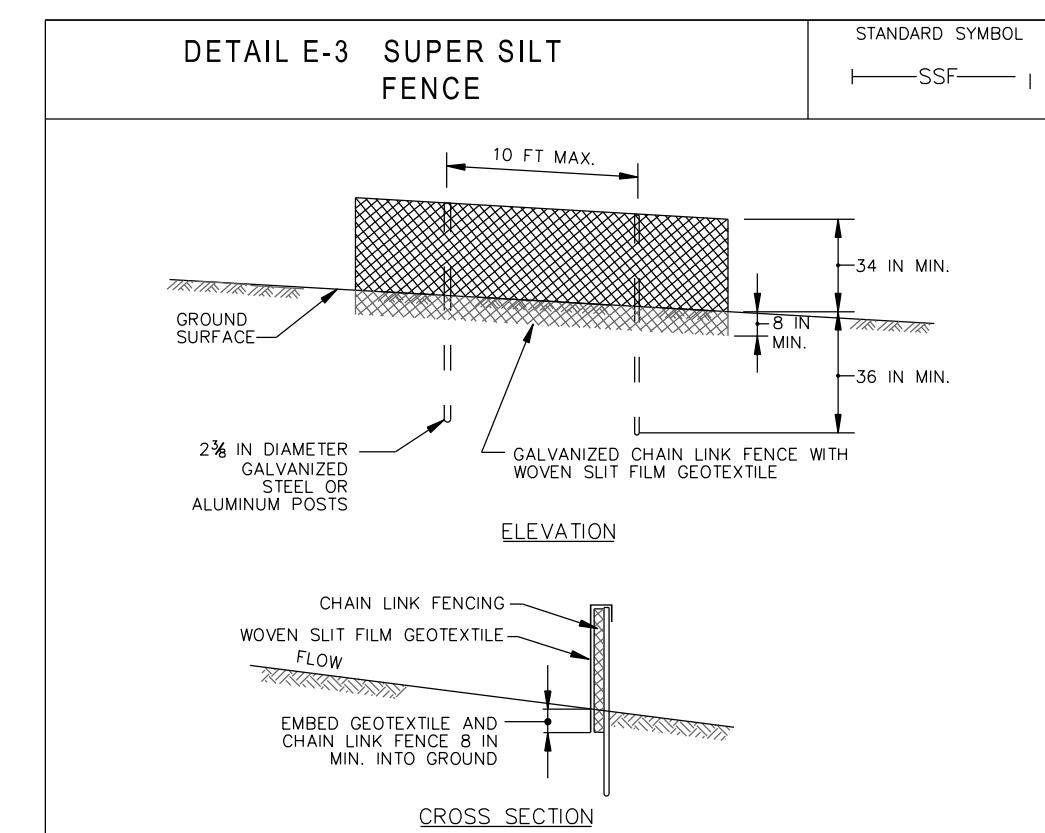
CONSTRUCTION SPECIFICATIONS

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 30 FEET (+30 FEET FOR THE REFERENCE LINE) AND MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED IN SECTION H-1 MATERIALS. IF THE PIPE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKING ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT

NATURAL RESOURCES CONSERVATION SERVICE MARYLAND WATER MANAGEMENT ADMINISTRATION



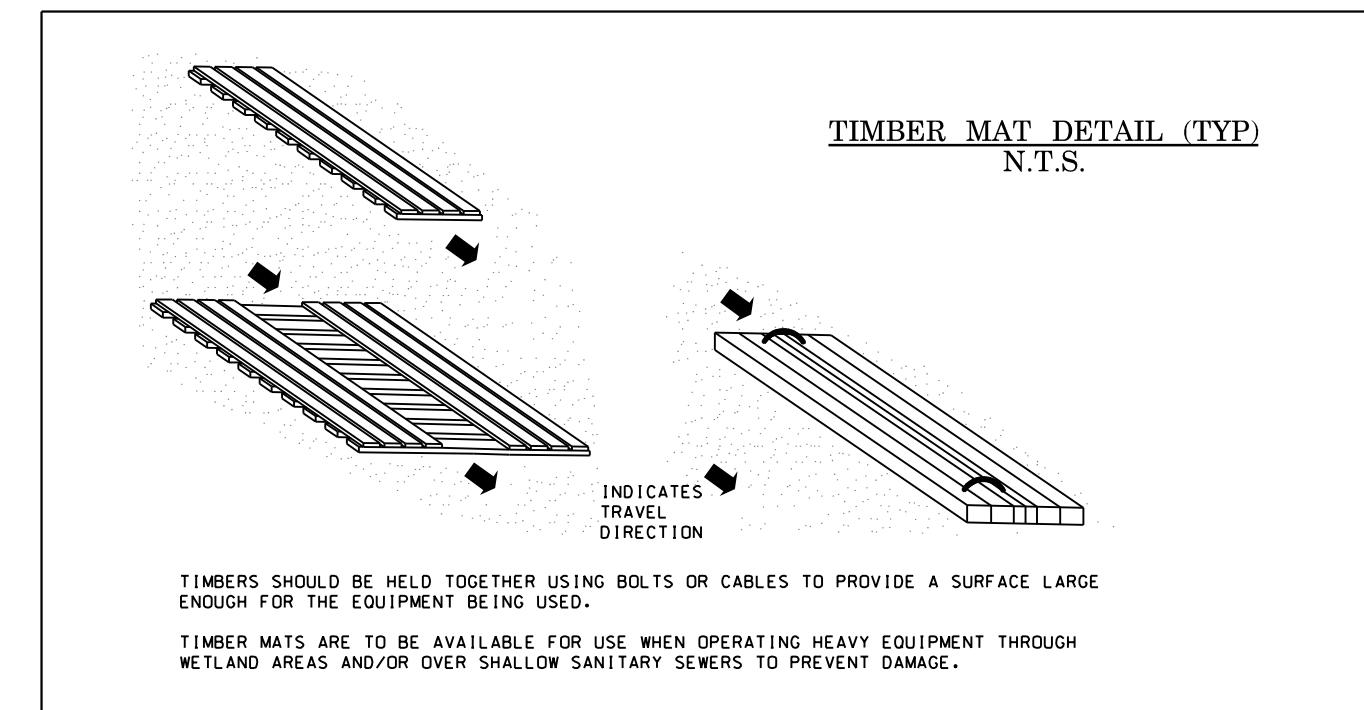
CONSTRUCTION SPECIFICATIONS

1. INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 1/2 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
3. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION AND 12 INCHES AT THE BOTTOM. EMBED GEOTEXTILE 6 INCHES INTO THE GROUND.
4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY-PASS.
5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GONG AROUND THE ENDS OF THE SUPER SILT FENCE.
6. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERRUNNING OCCURS, REINSTALL CHAIN LINK FENCE AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT

NATURAL RESOURCES CONSERVATION SERVICE MARYLAND WATER MANAGEMENT ADMINISTRATION



TIMBER MAT DETAIL (TYP)
N.T.S.

EN-02
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
EROSION & SEDIMENT CONTROL
NOTES-2

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 ISSUEANCE OF ALL
APPLICABLE REGULATORY PERMITS.



DATE: OCTOBER 2024
SCALE: N.T.S.
FREDERICK COUNTY PROJECT NO.: C6018.6018.01
DWG. 6 OF 21

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 (*UNICOLA SP.*), AND 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 AND 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.

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 ISSUEANCE OF ALL APPLICABLE REGULATORY PERMITS.



EN-03

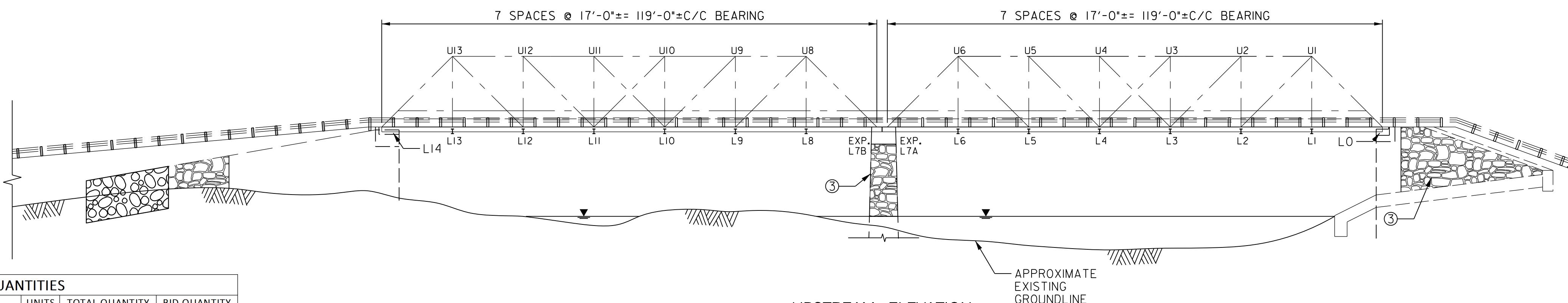
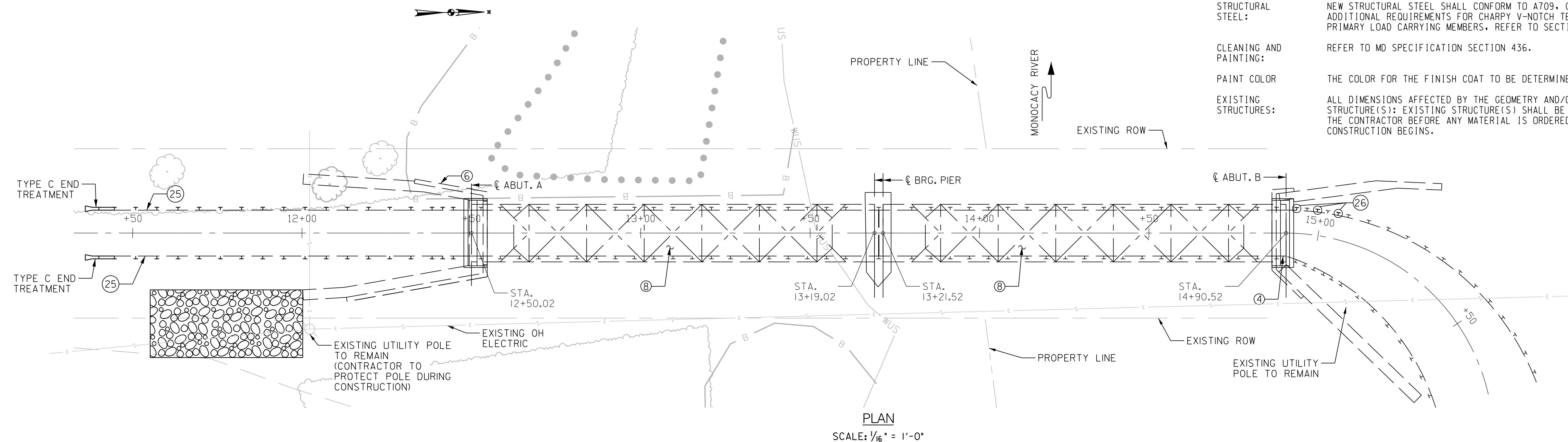
FREDERICK COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

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

DATE: OCTOBER 2024
SCALE: N.T.S.
FREDERICK COUNTY PROJECT NO.: C6018.6018.01
DWG. 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 PARGING/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 MANAGEMENT
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

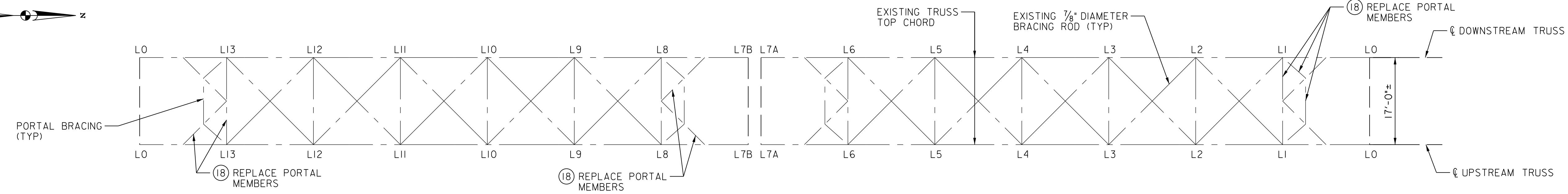
FREDERICK COUNTY, MARYLAND
 DIVISION OF PUBLIC WORKS
 DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
 OFFICE OF TRANSPORTATION ENGINEERING
 FREDERICK COUNTY, MARYLAND

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

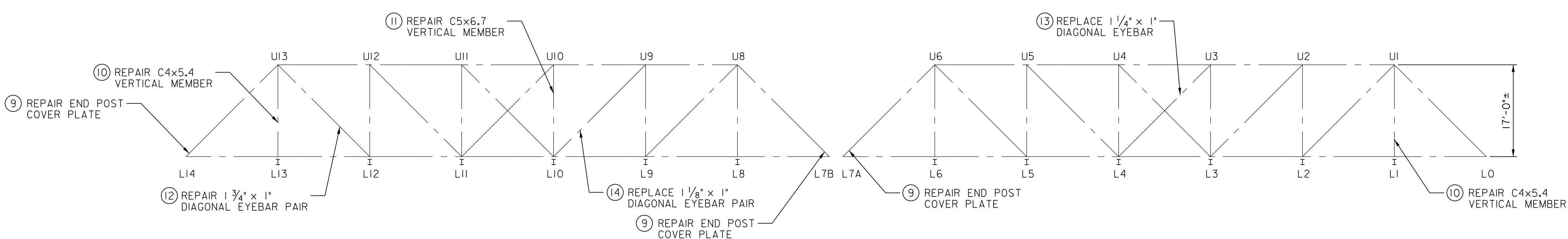
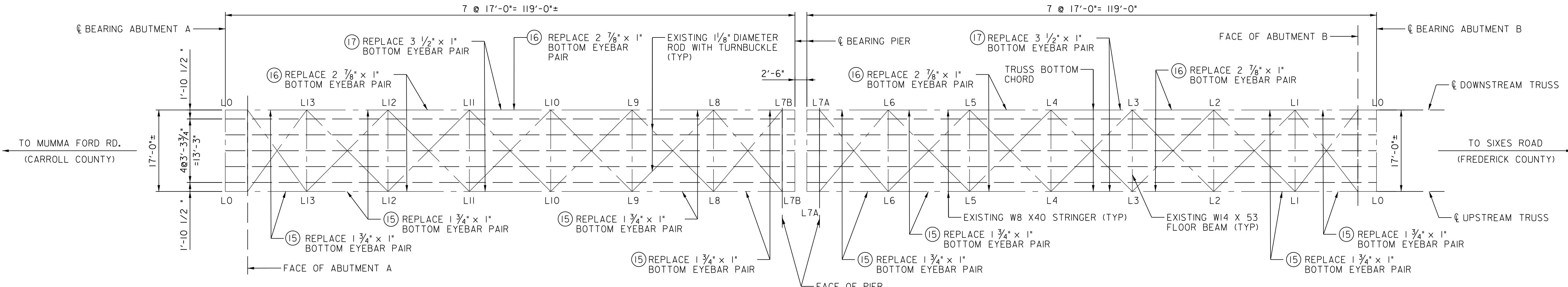
SCHEDULE OF WORK

DATE: OCTOBER 2024 SCALE:
 FREDERICK COUNTY PROJECT NO.: C6018.6018.01 DWG. 9 OF 21

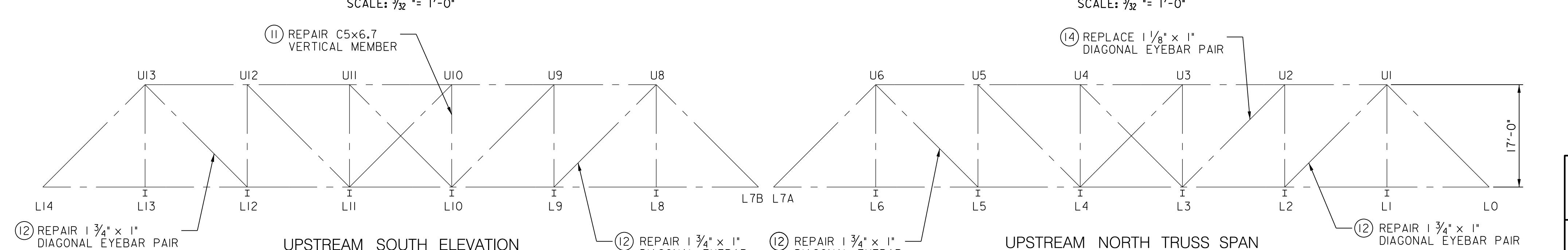




NORTH SPAN TOP CHORD FRAMING PLAN
SCALE: $\frac{3}{32}$ " = 1'-0"



NORTH SPAN DECK FRAMING PLAN
SCALE: $\frac{3}{32}$ " = 1'-0"



UPSTREAM SOUTH ELEVATION
SCALE: $\frac{3}{32}$ " = 1'-0"

UPSTREAM NORTH TRUSS SPAN
SCALE: $\frac{3}{32}$ " = 1'-0"

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

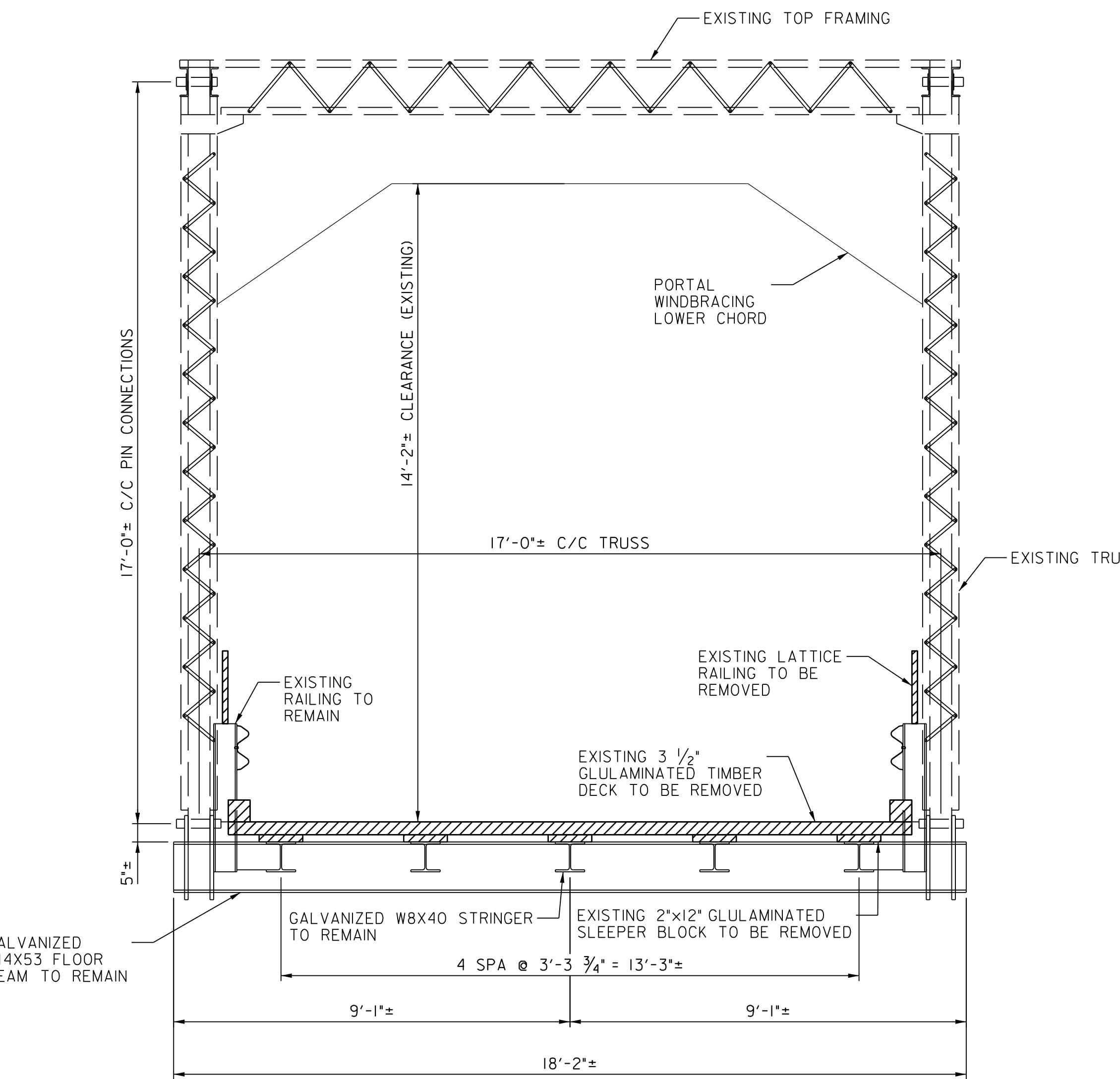
S-03
FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

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

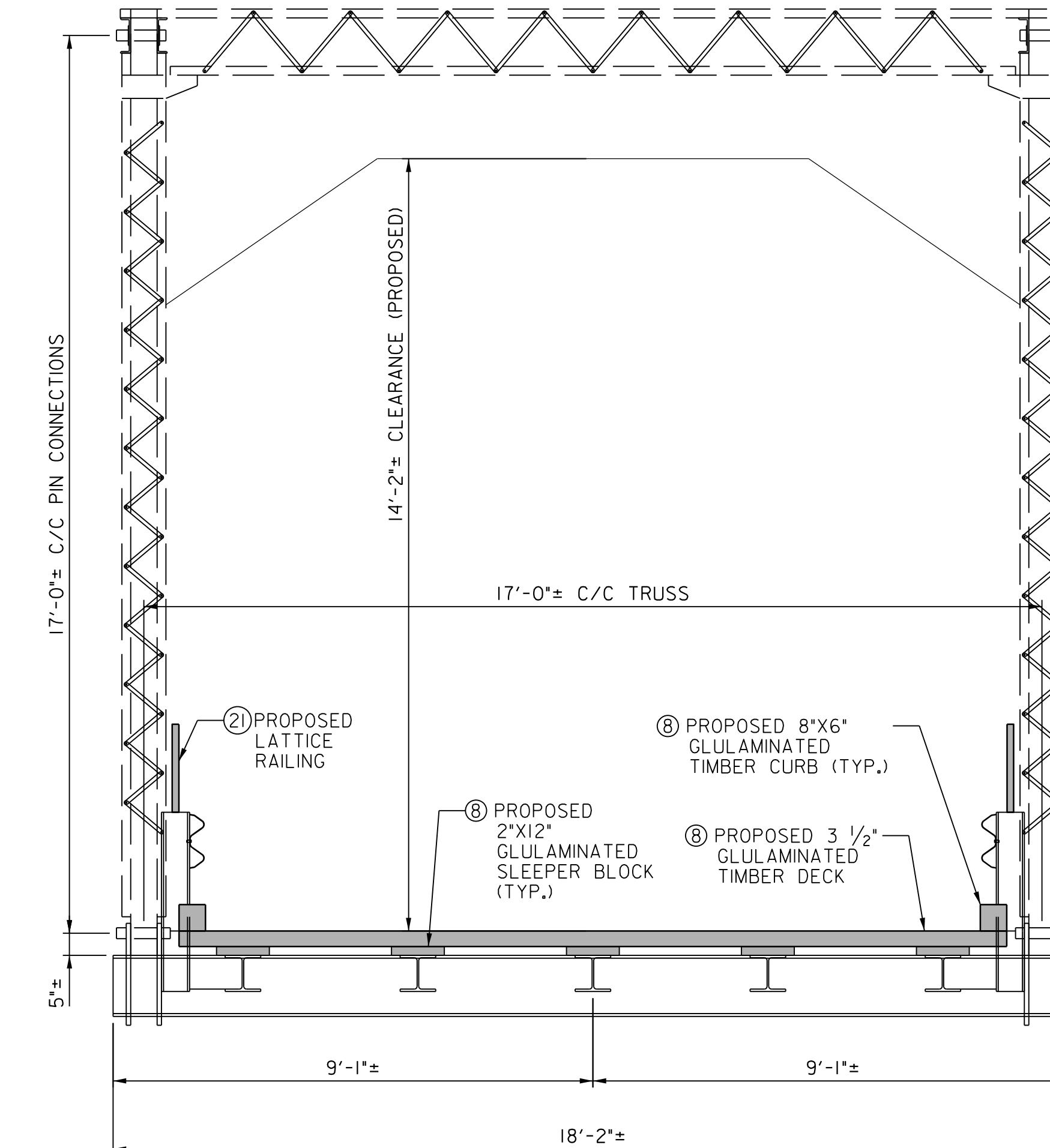
FRAMING PLAN AND TRUSS ELEVATIONS



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

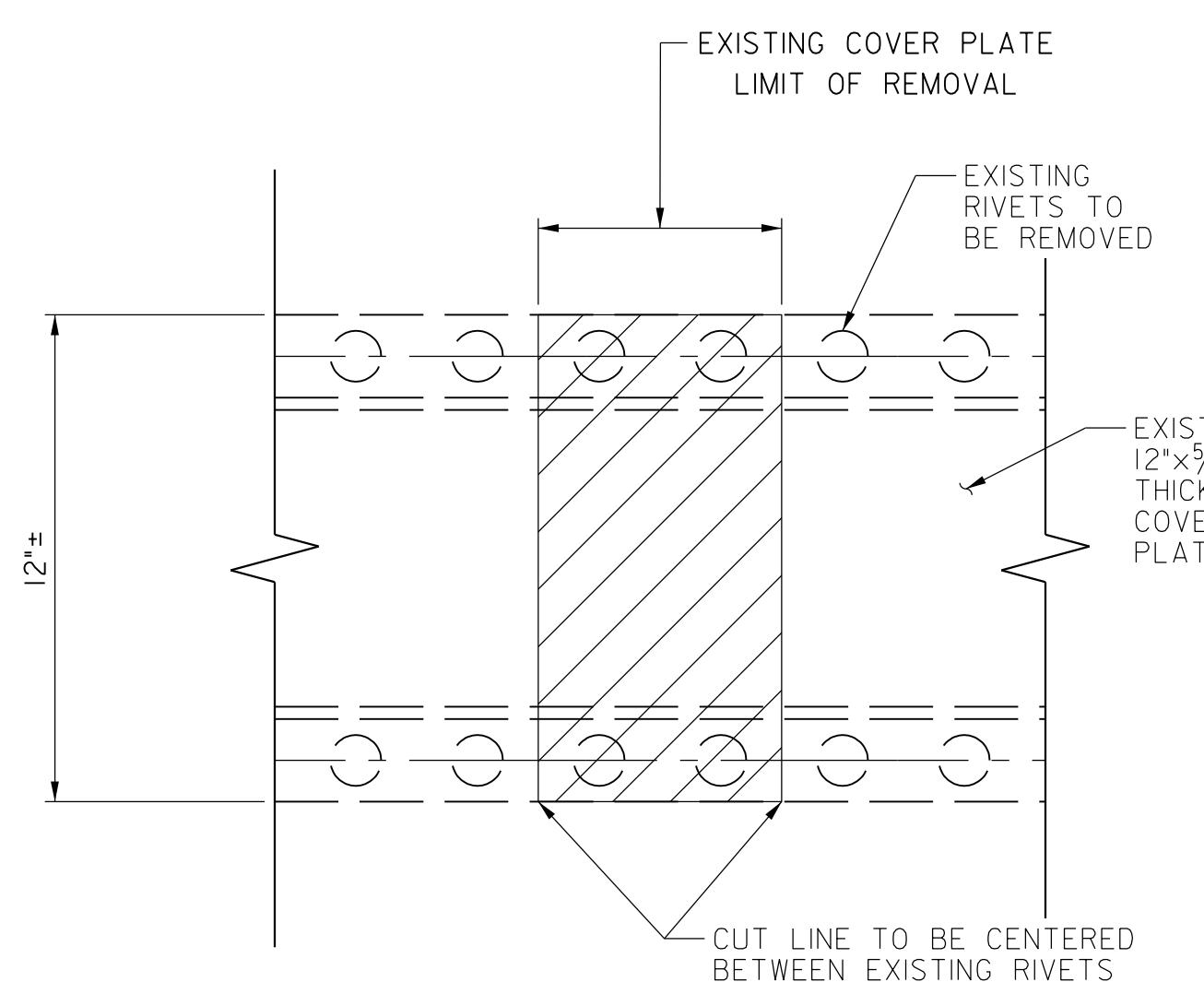
FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

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

EXISTING AND PROPOSED TYPICAL SECTIONS

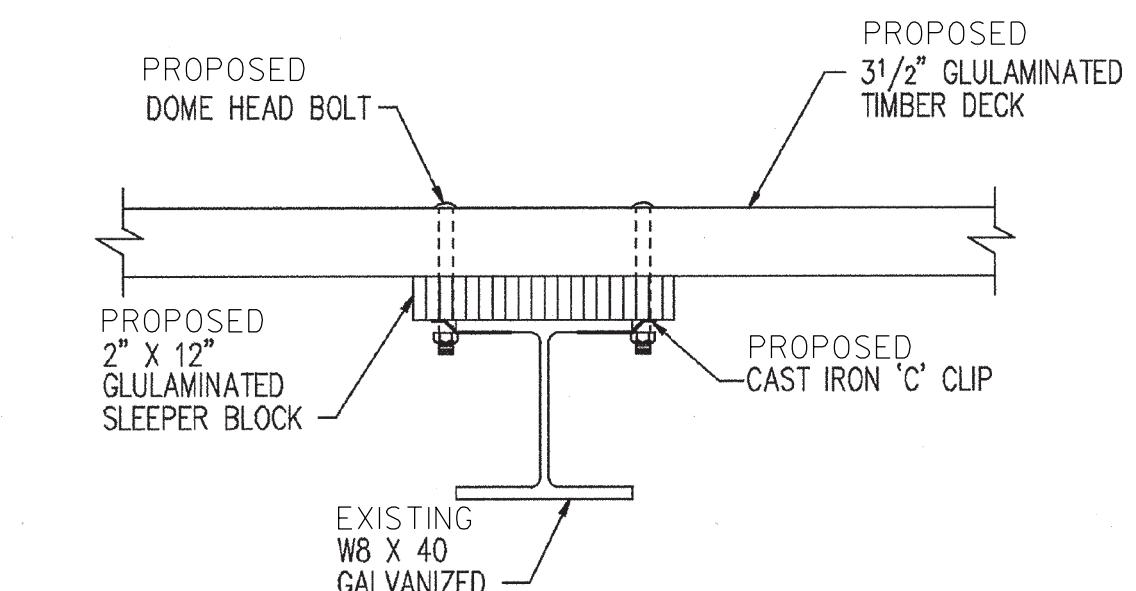


DATE: OCTOBER 2024
SCALE:
FREDERICK COUNTY PROJECT NO.: C6018.6018.01
DWG. 11 OF 21

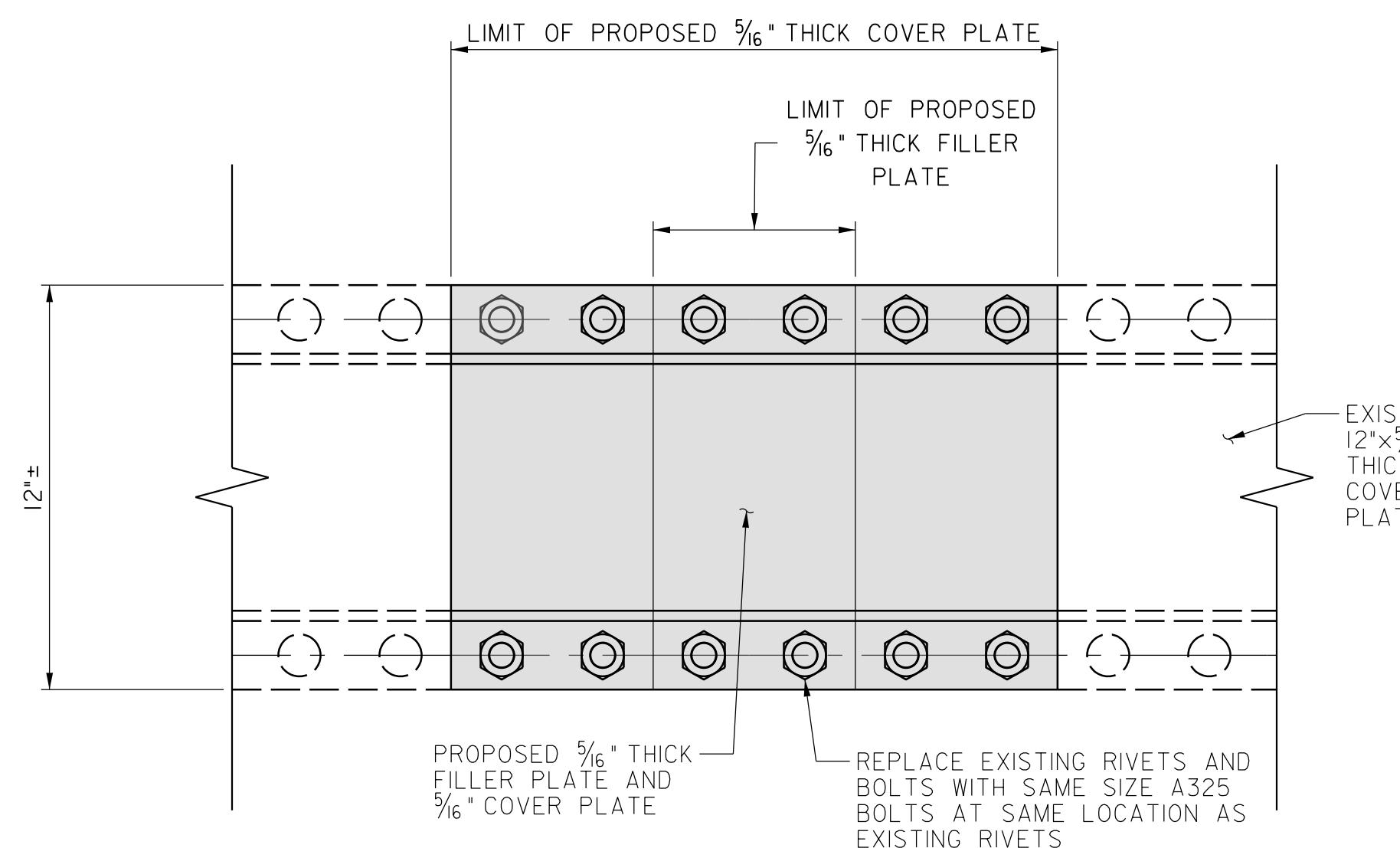
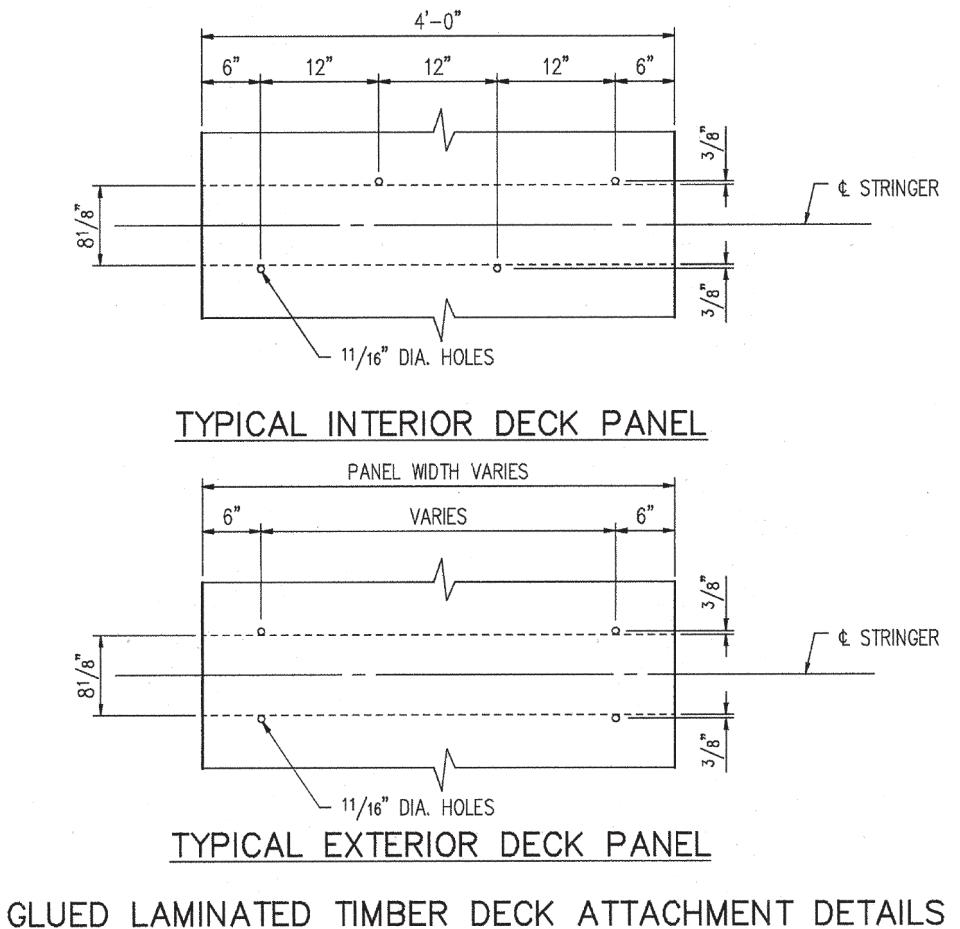


⑨ REPAIR END POST COVER PLATE - PLAN VIEW
EXISTING END PORTAL COVER PLATE REMOVAL

SCALE: 3" = 1'-0"

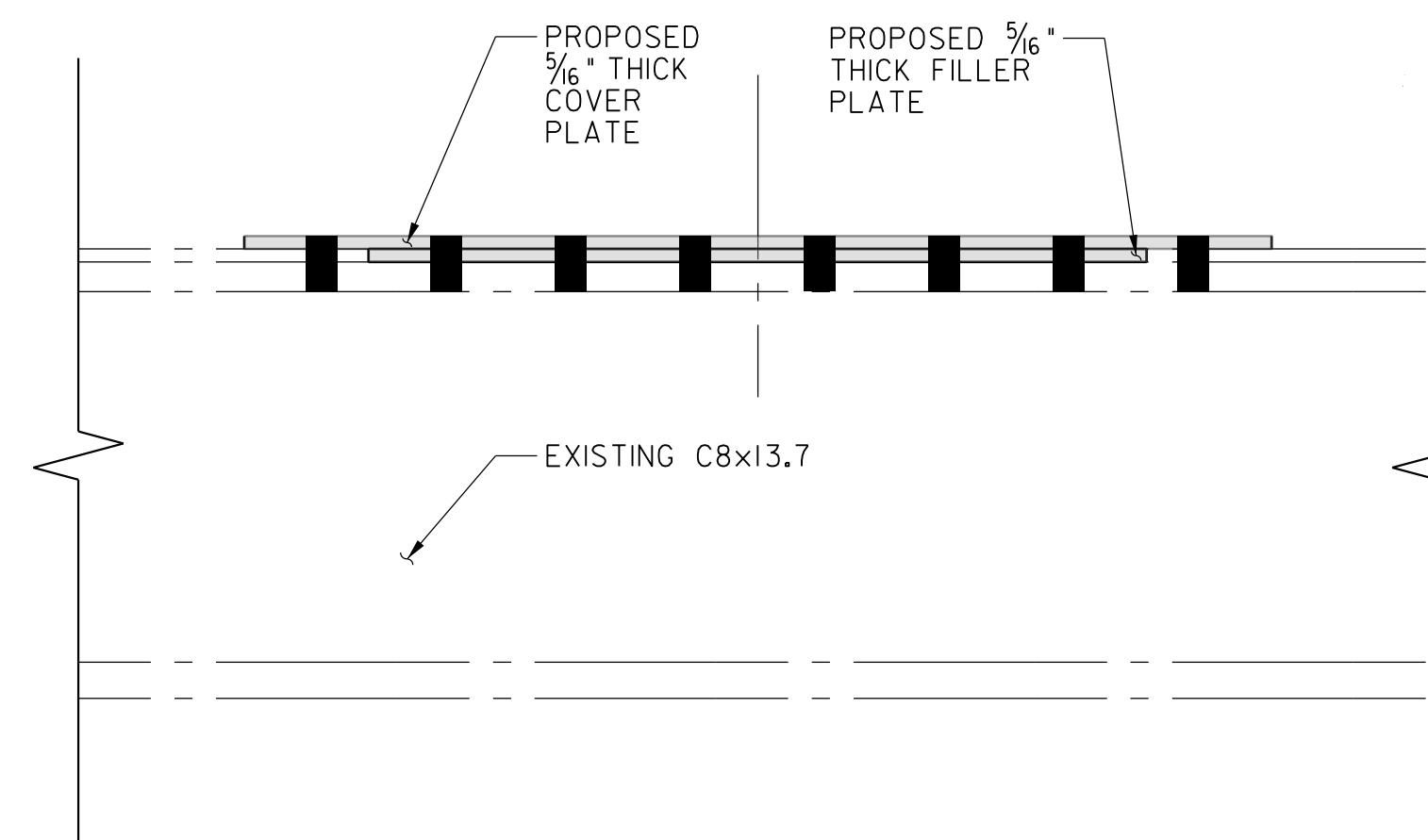


DETAIL 'A'



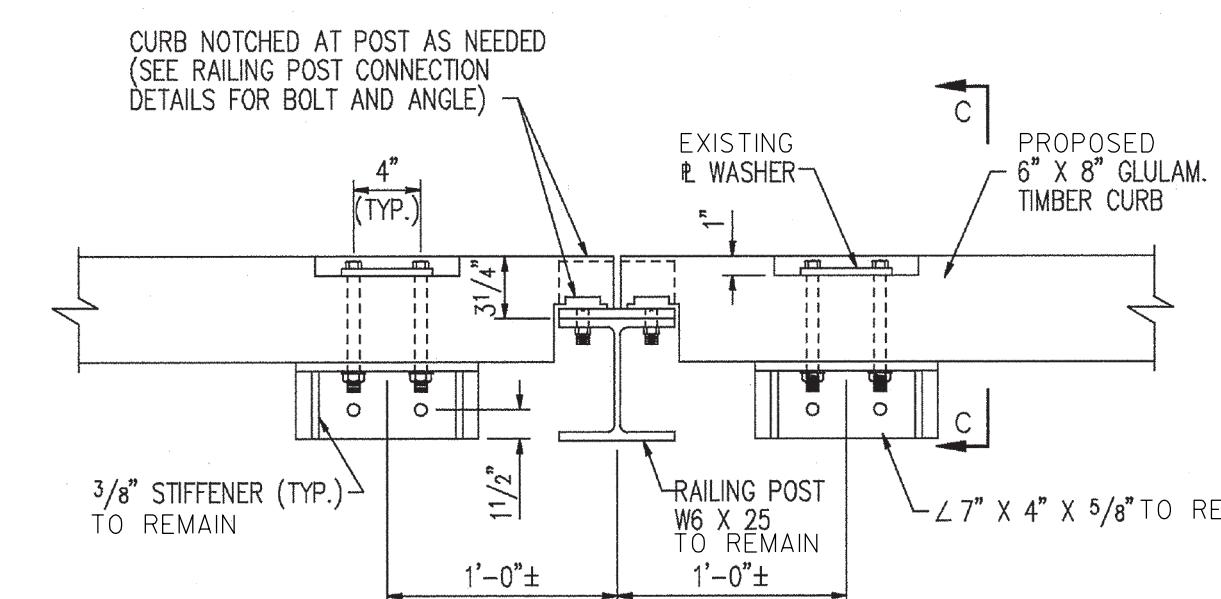
⑨ REPAIR END POST COVER PLATE - PLAN VIEW
PROPOSED END PORTAL COVER PLATE REMOVAL

SCALE: 3" = 1'-0"



⑨ REPAIR END POST COVER PLATE - SECTION VIEW

SCALE: 3" = 1'-0"



SECTION C-C

PLAN

⑧ REPLACE TIMBER DECK AND CURB - CURB DETAIL

NOT TO SCALE

S-05

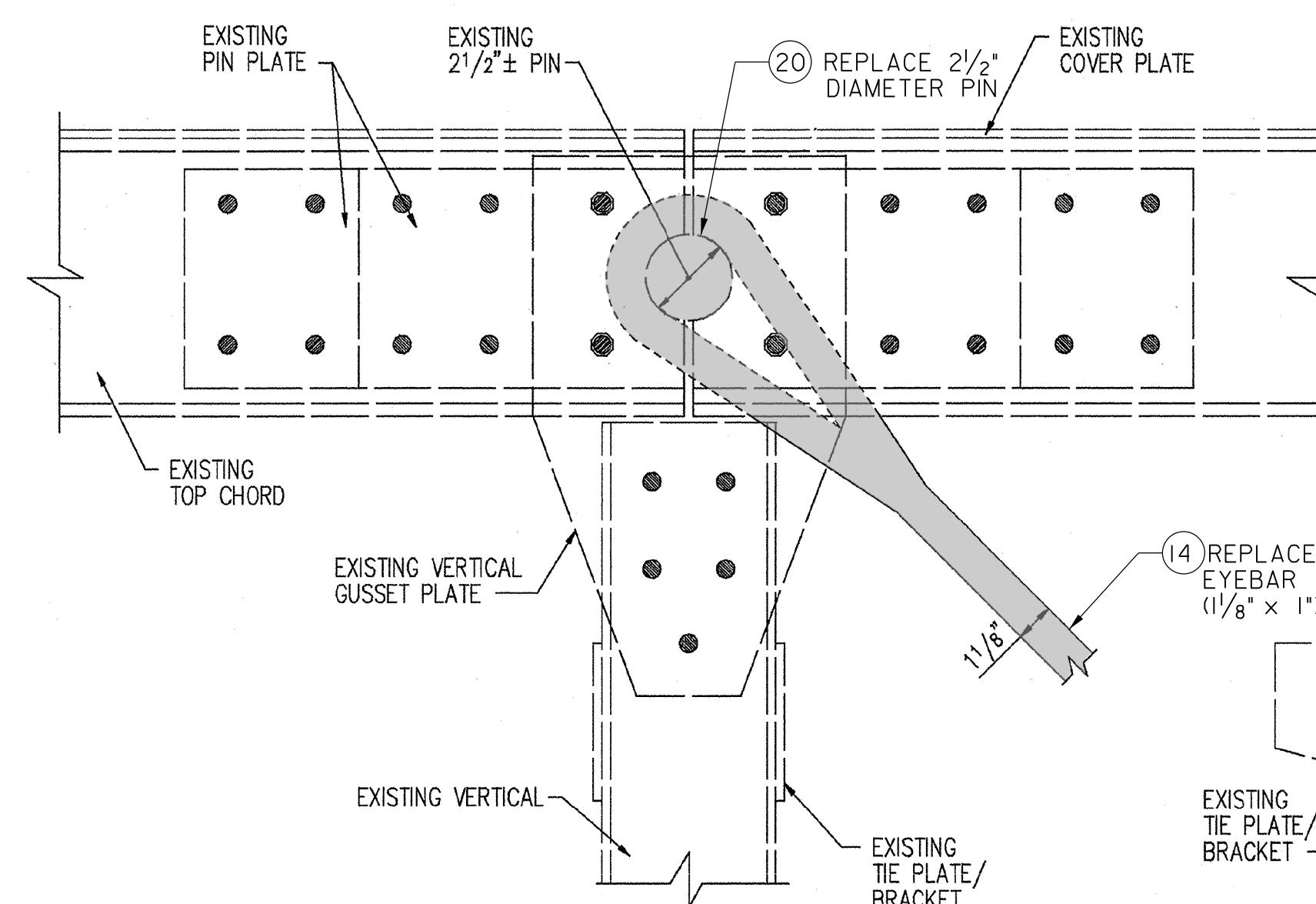
FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

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

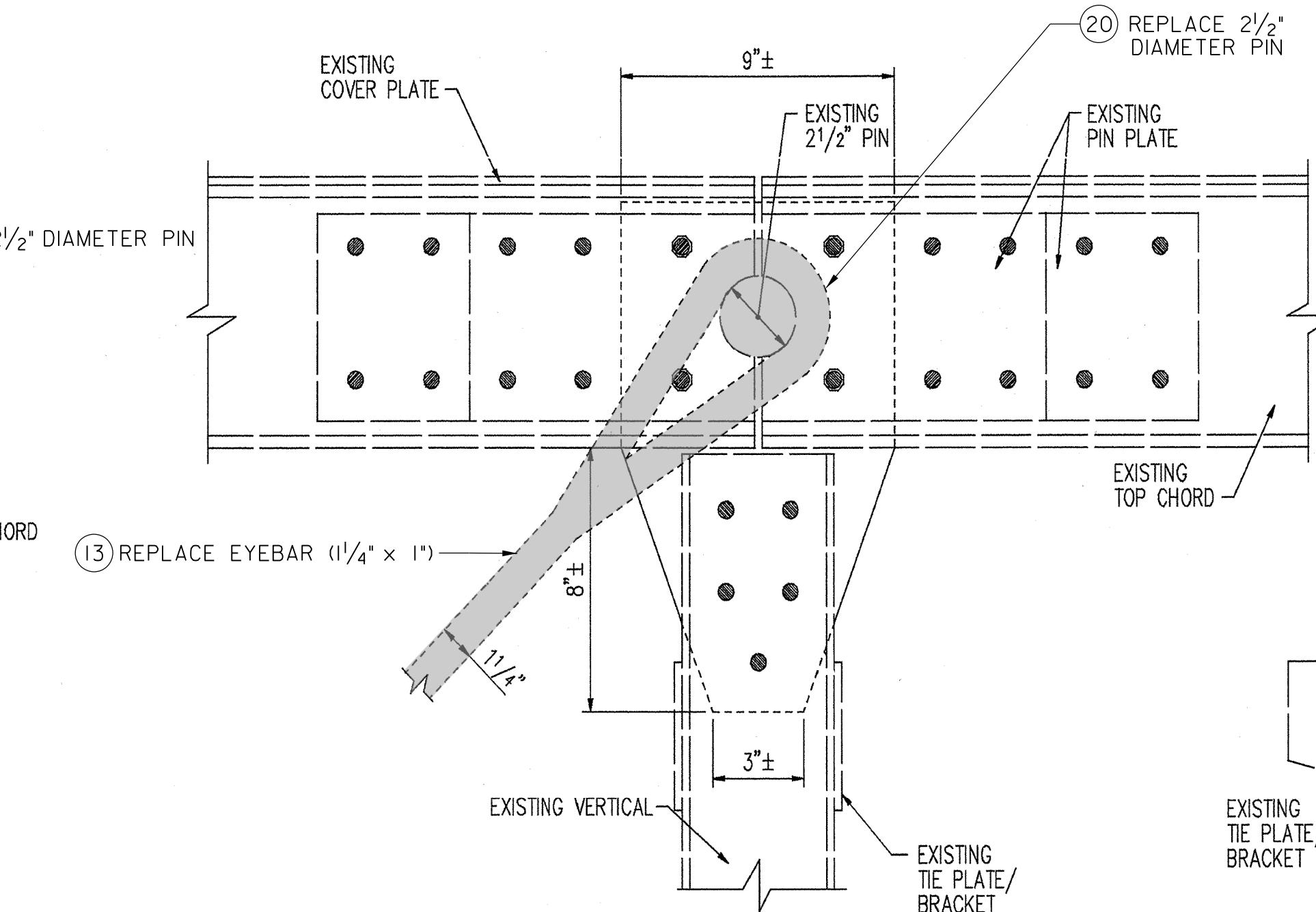
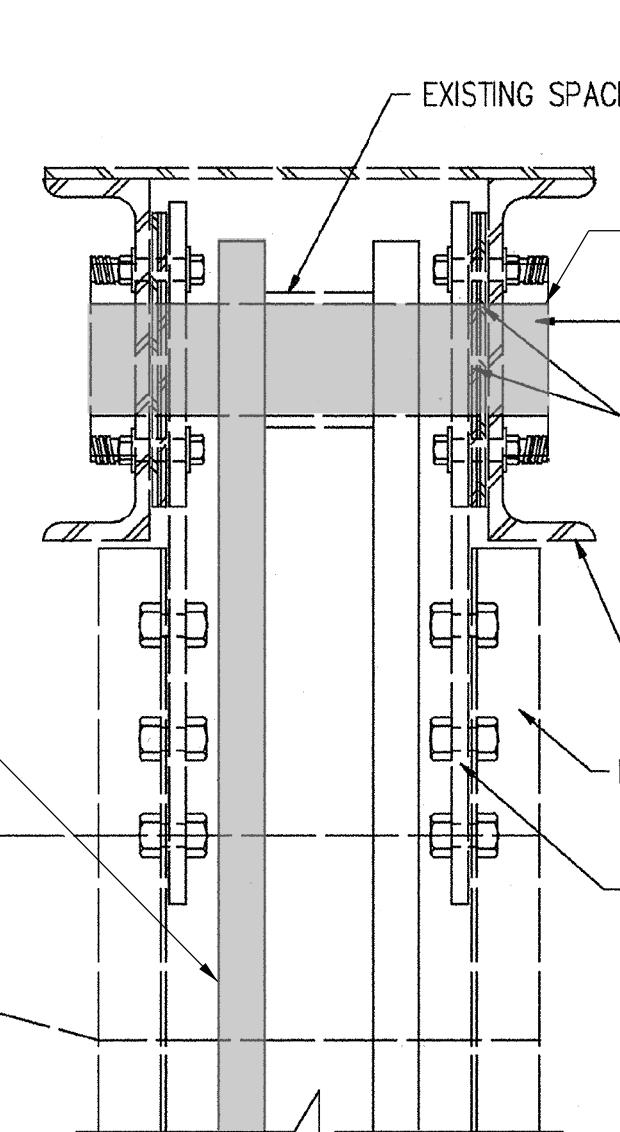
**SUPERSTRUCTURE
REPAIR DETAILS - 1**



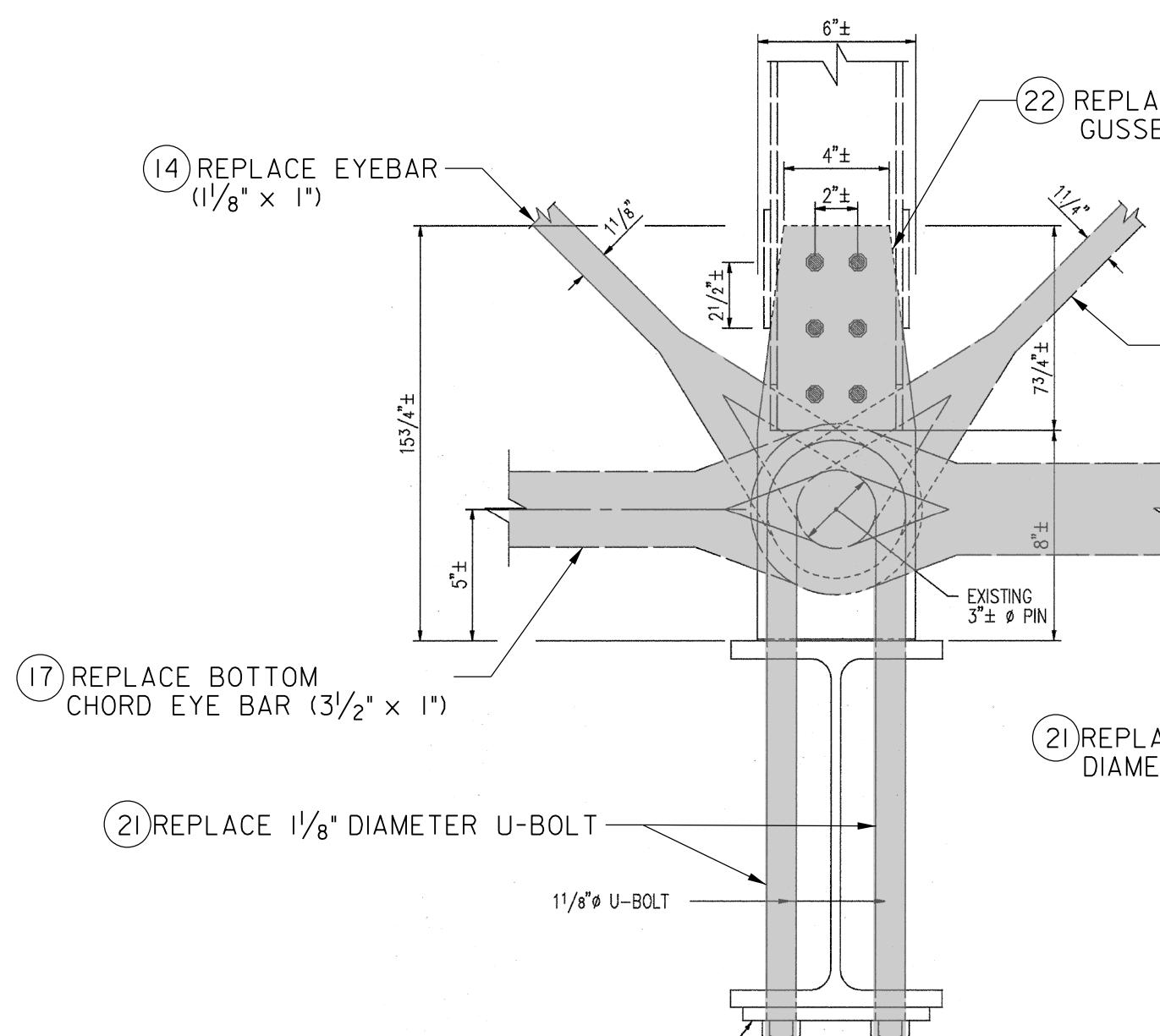
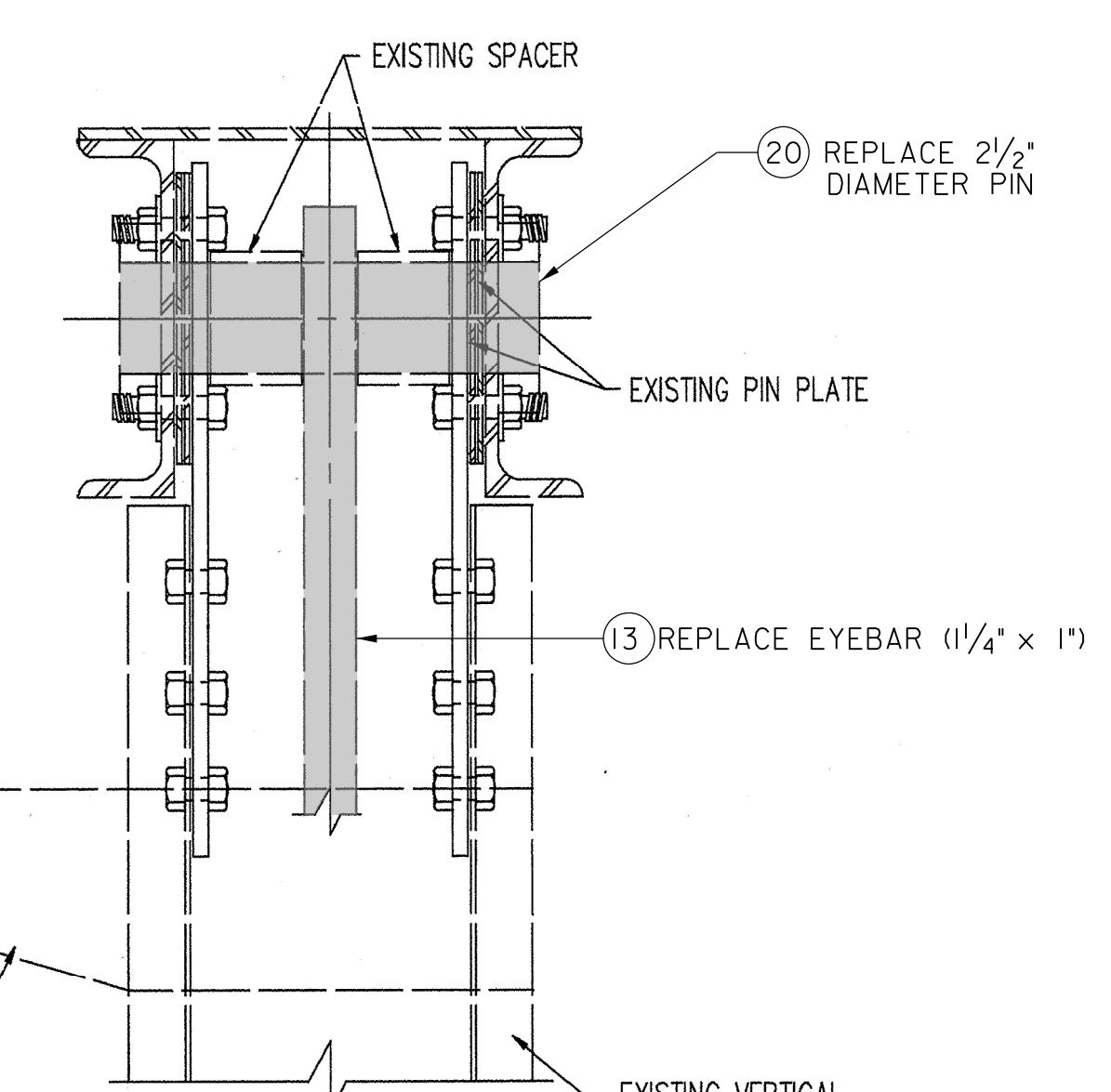
DATE: OCTOBER 2024
SCALE:
FREDERICK COUNTY PROJECT NO.: C6018.6018.01
DWG. 12 OF 21



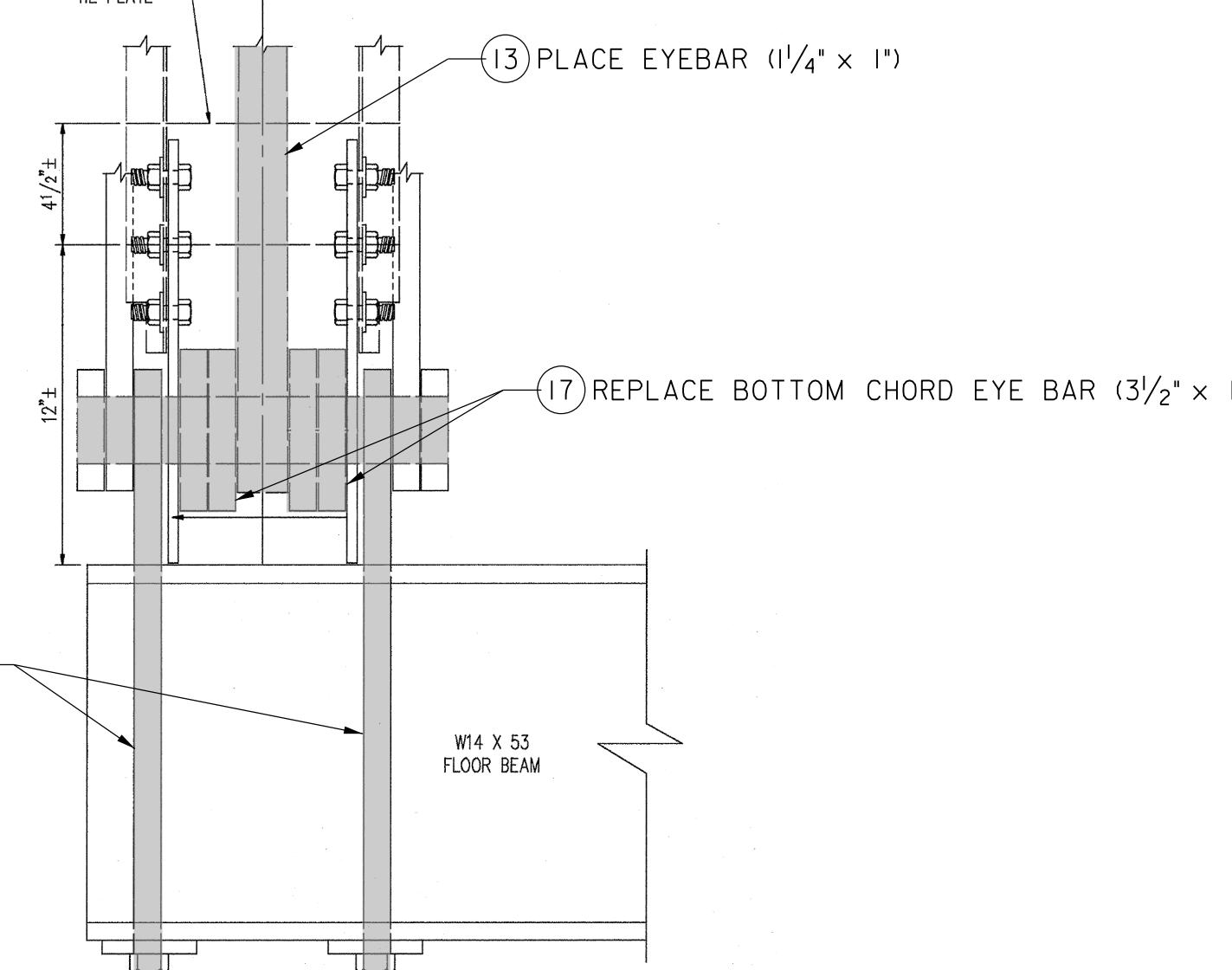
DETAIL U5



DETAIL U3

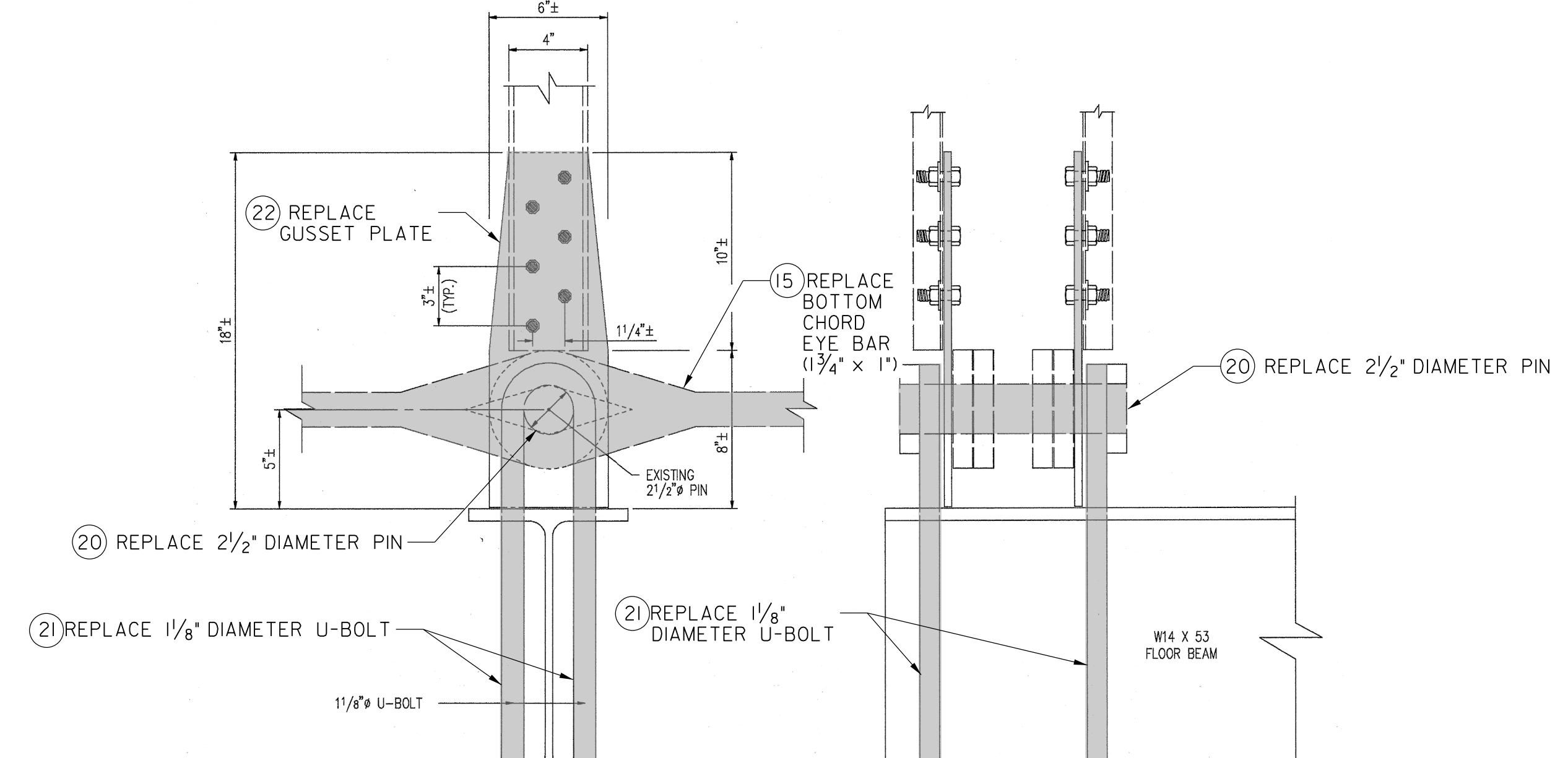


END VIEW



ELEVATION

DETAIL L4



END VIEW

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

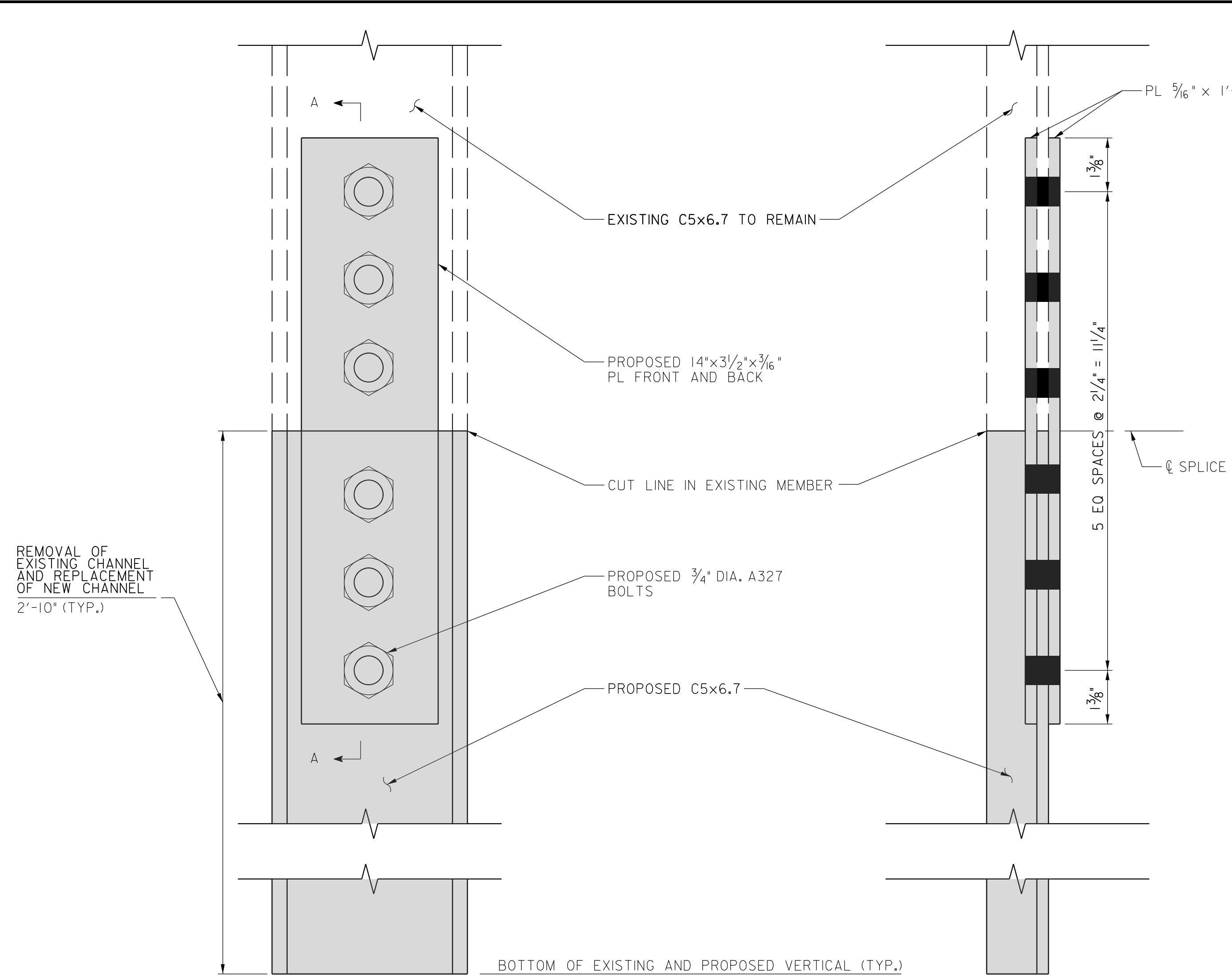
FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

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"

SCALE: 6" = 1'-0"

11) REPAIR VERTICAL MEMBER (C5x6.7) – SECTION A

SCALE: 6" = 1'-0"

SCALE: 6" = 1'

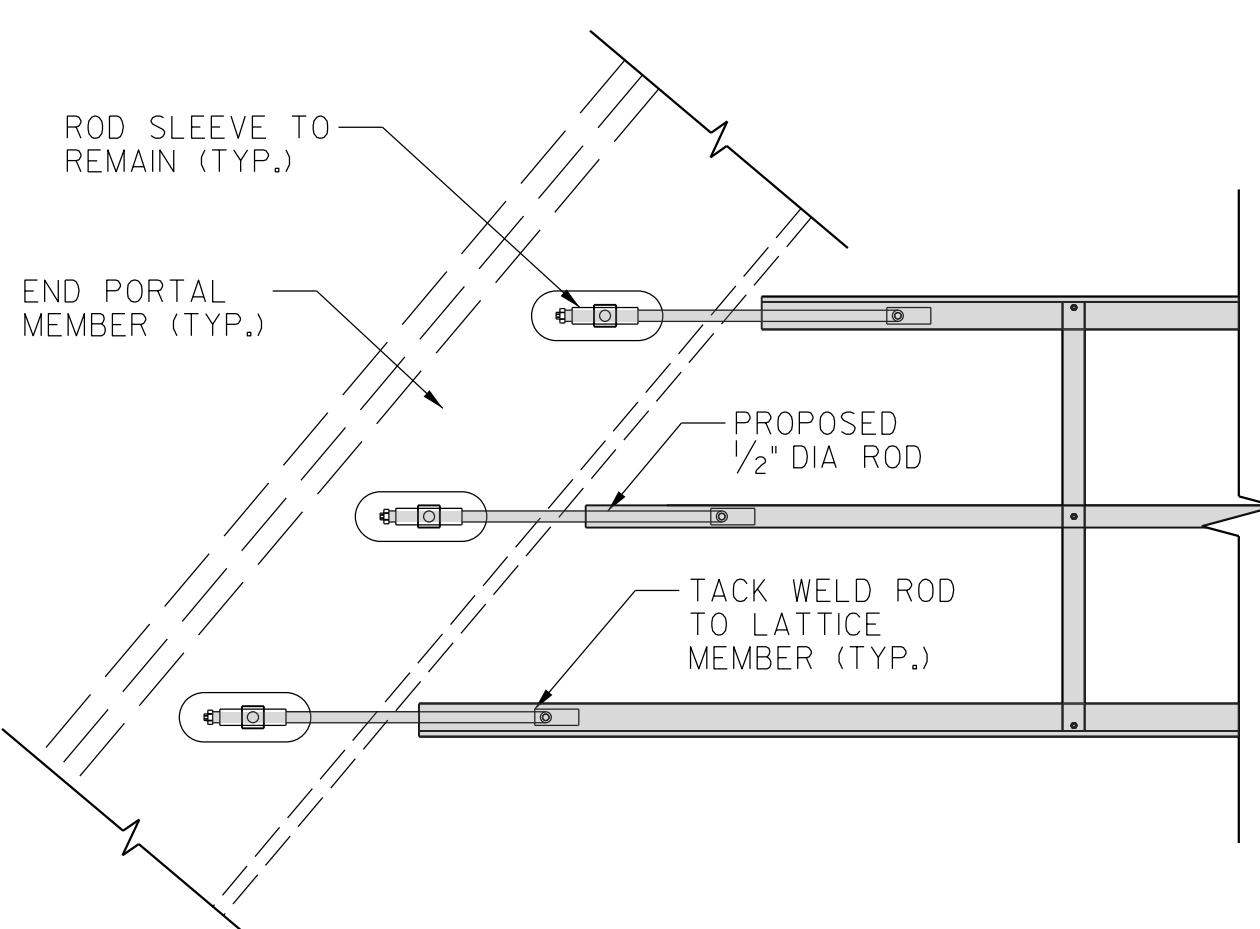
10 REPAIR VERTICAL MEMBER (C4x5.4) – ELEVATION VIEW
SCALE: 6" = 1'-0"

SCALE:

10) REPAIR VERTICAL MEMBER (C4x5.4) – SECTION B-B

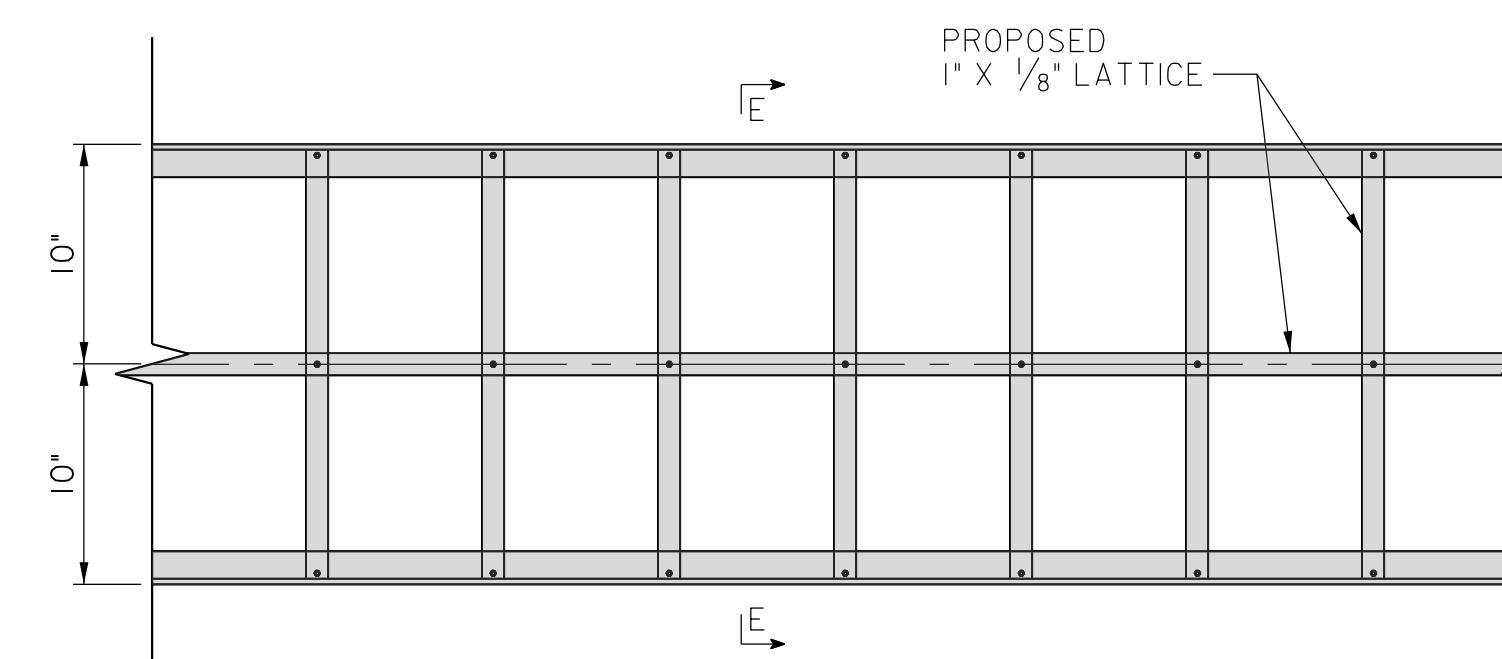
SCALE: 6" = 1'-0"

SCALE: 6" = 1'



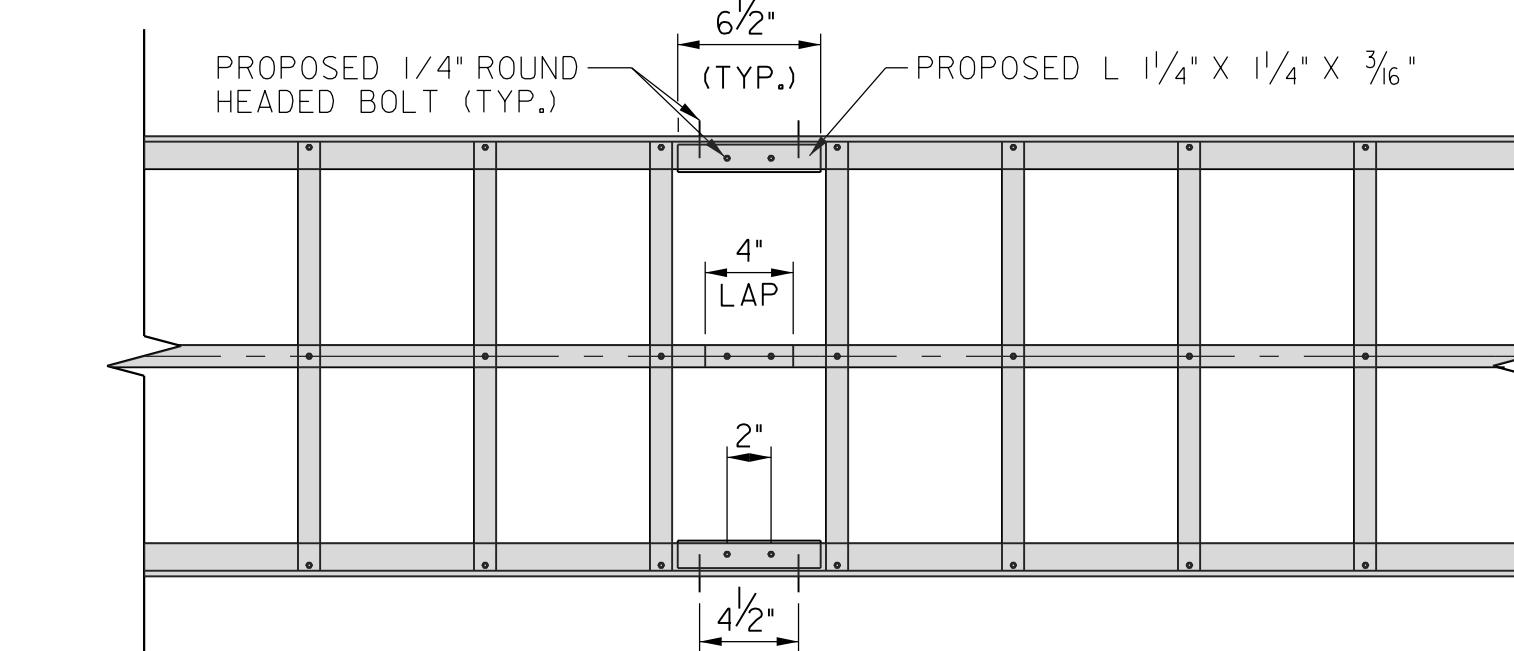
23 REPLACE LATTICE RAILING – CONNECTION DETAIL
SCALE: 1/2" = 1'-0"

SCALE: $1\frac{1}{2}'' = 1'-0''$



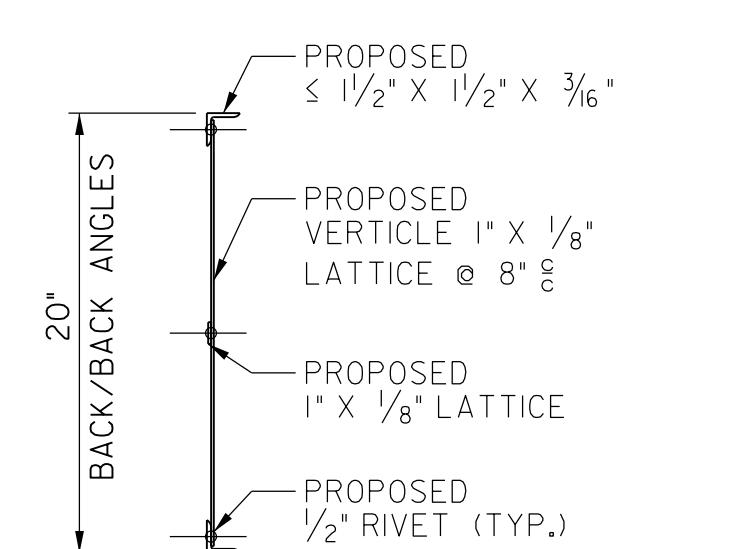
23 REPLACE LATTICE RAILING – TYPICAL ELEVATION
SCALE: $1\frac{1}{2}'' = 1'-0''$

SCALE: $1\frac{1}{2}'' =$



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

SCALE: $1\frac{1}{2}'' =$



23 REPLACE LATTICE RAILING – SECTION E-E

S-07

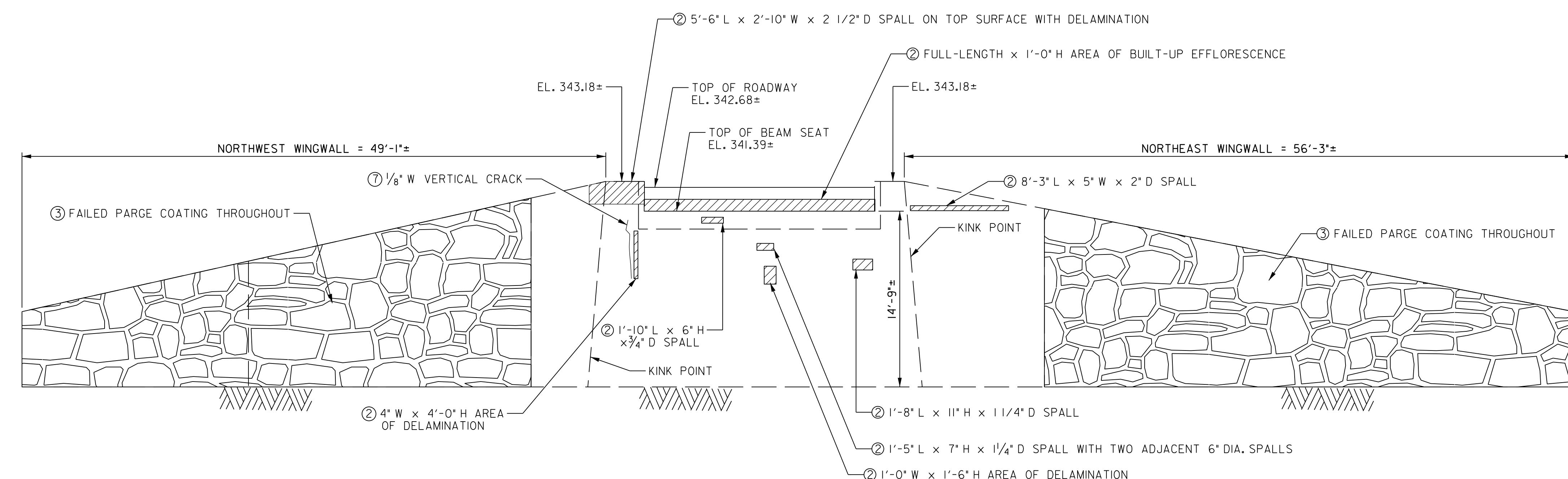
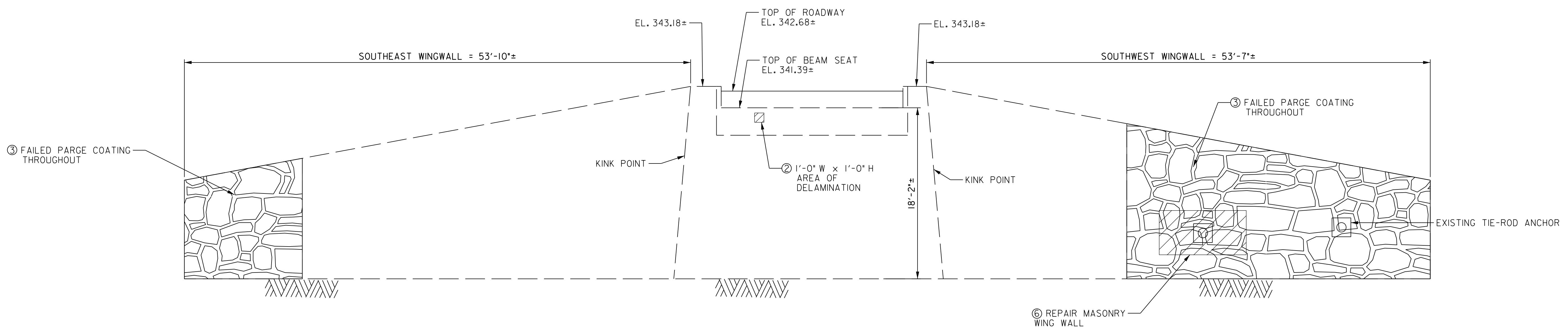
S-07

FREDERICK COUNTY, MARYLAND

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

SUPERSTRUCTURE REPAIR DETAILS - 3

DATE: OCTOBER 2024	SCALE:		
FREDERICK COUNTY PROJECT NO.: C6018.6018.01			
DWG.	14	OF	21



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 PARGE/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

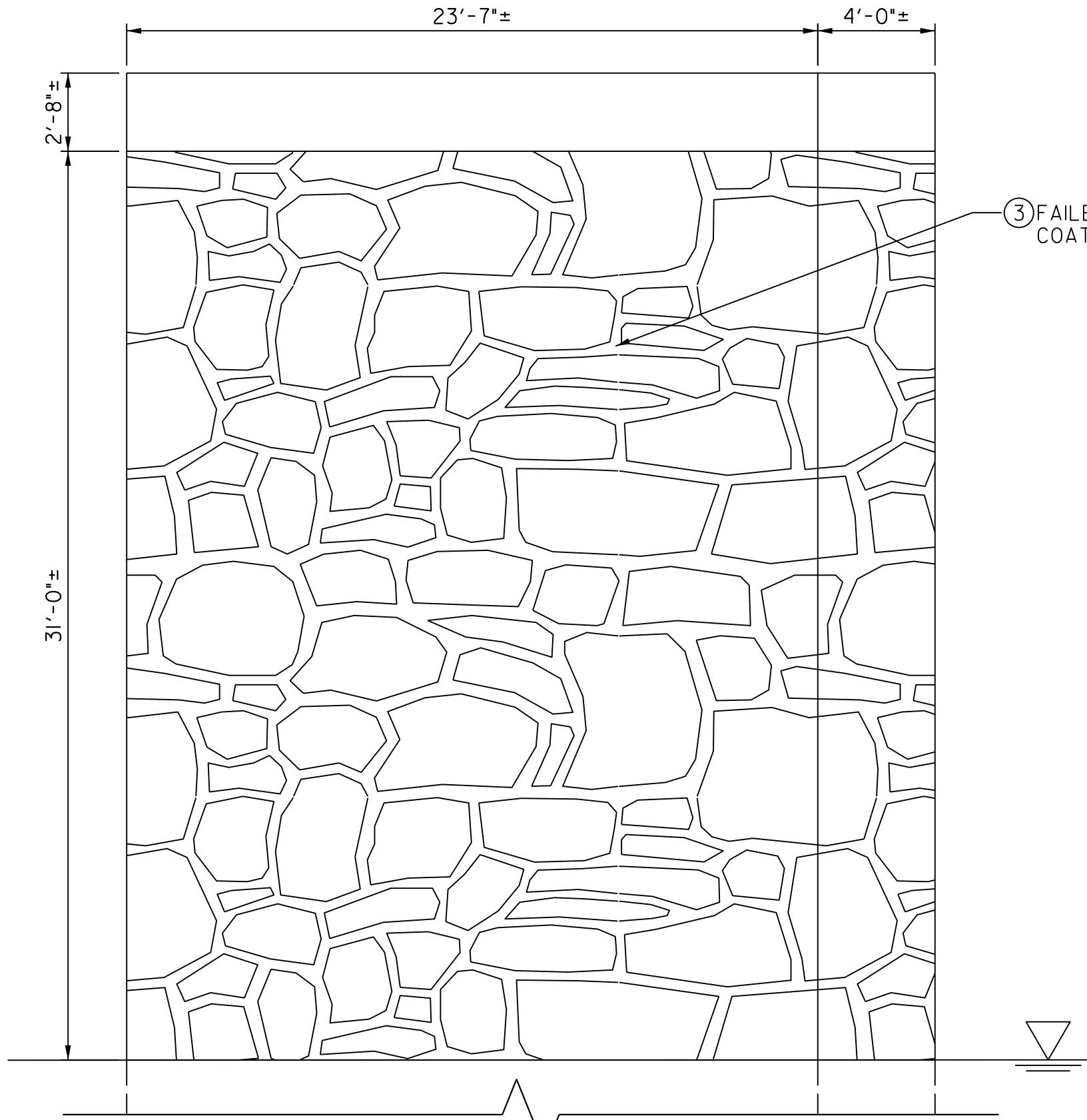
FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

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

SUBSTRUCTURE REPAIR DETAILS - 1

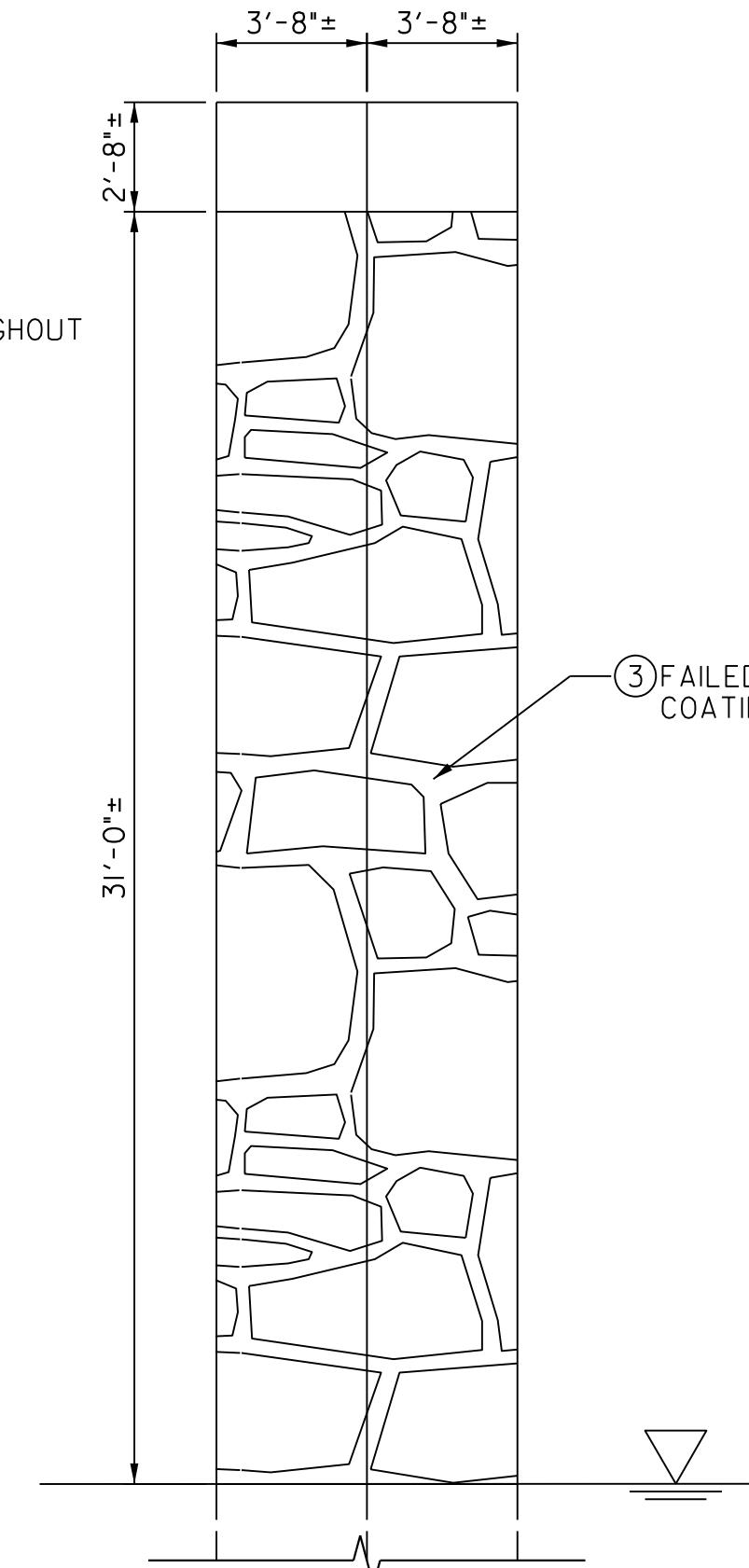


DATE: OCTOBER 2024
SCALE:
FREDERICK COUNTY PROJECT NO.: C6018.6018.01
DWG. 15 OF 21



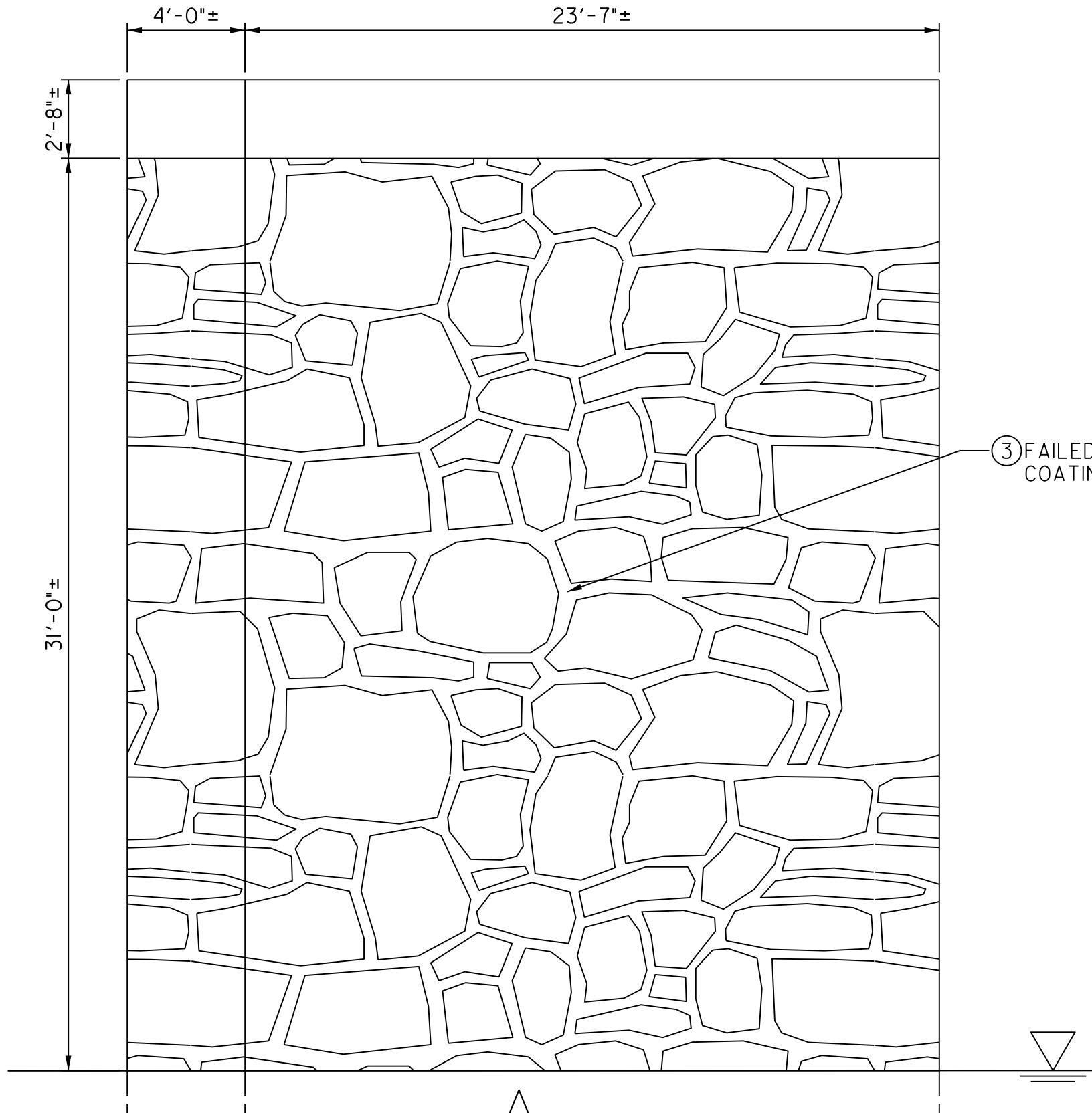
ELEVATION – SOUTH FACE

SCALE: $1/4'' = 1'-0''$



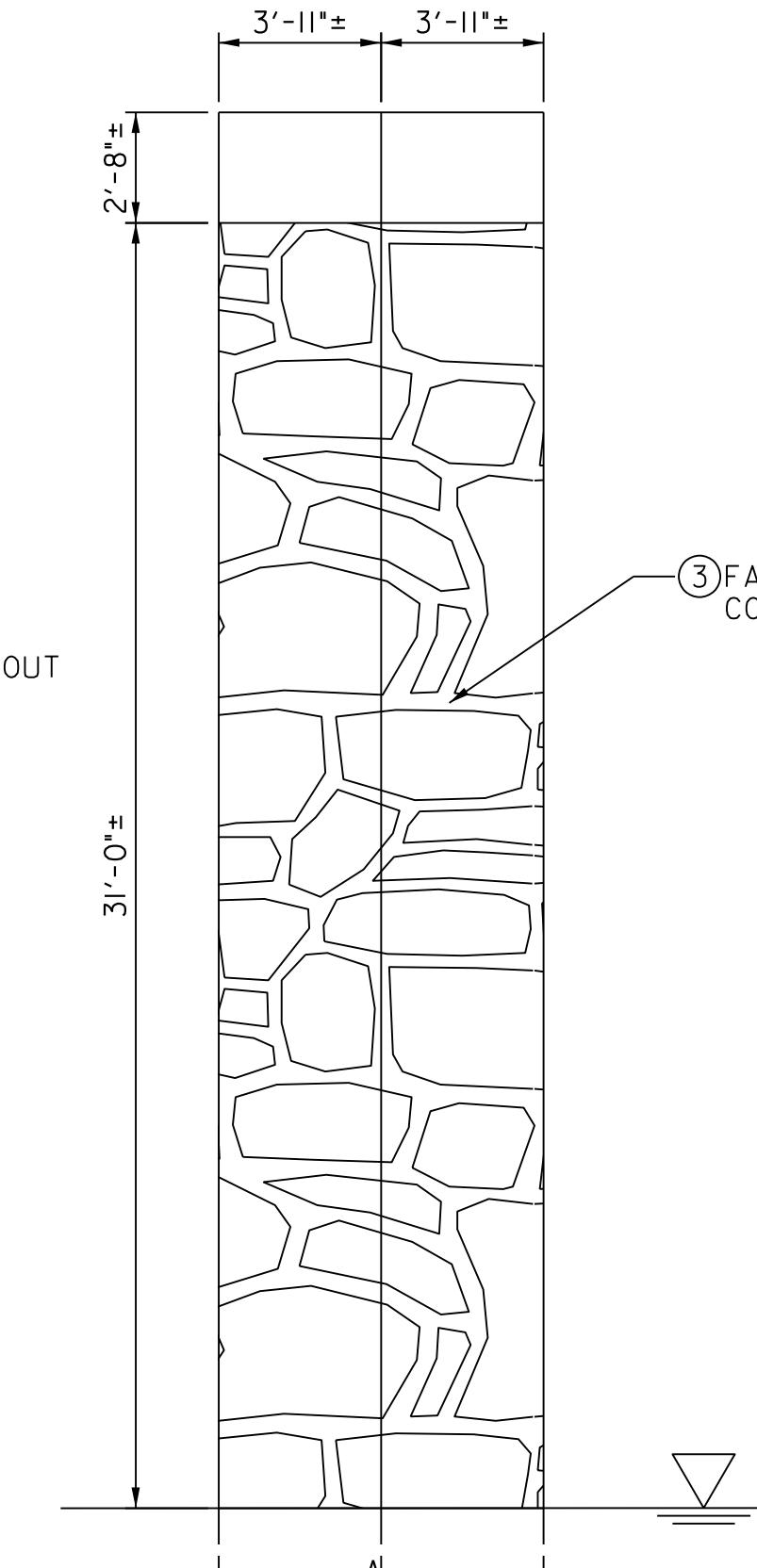
ELEVATION – EAST FACE

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

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

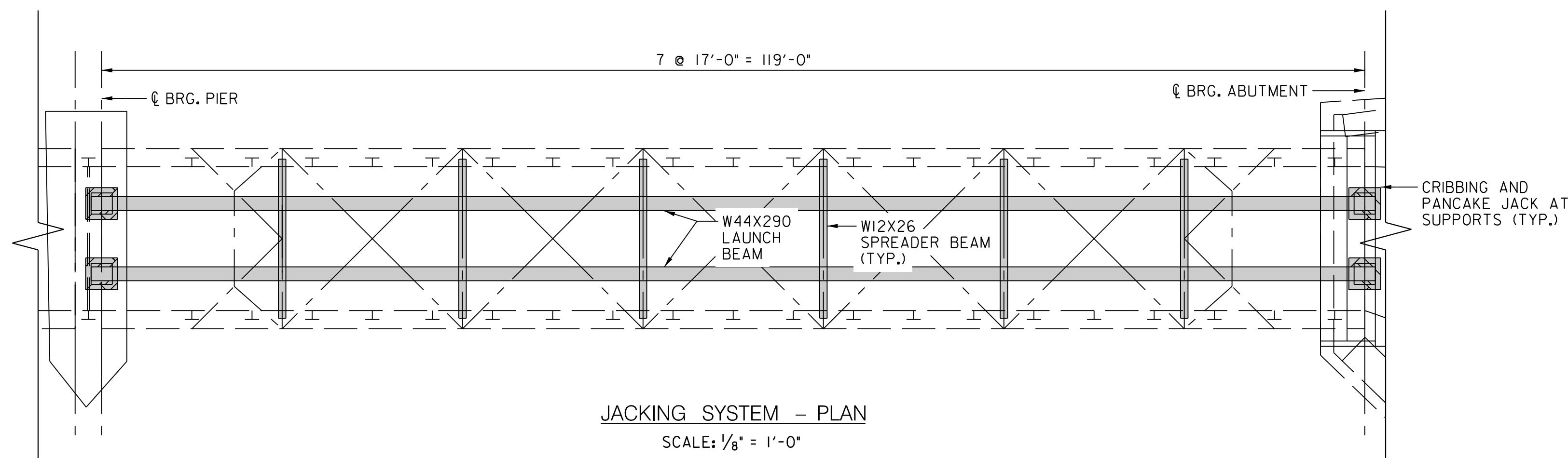
REHABILITATION TO BRIDGE NO. F05-03 ON SIXES BRIDGE ROAD OVER MONOCACY RIVER

SUBSTRUCTURE DETAILS - 2

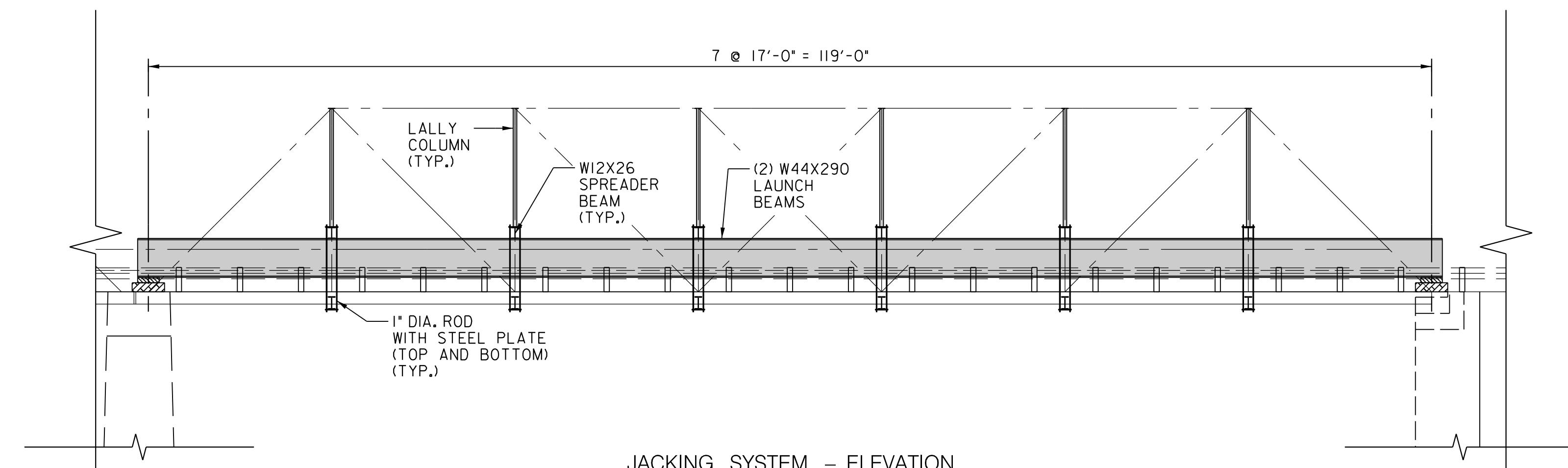


DATE: OCTOBER 2024
SCALE:
FREDERICK COUNTY PROJECT NO.: C6018.6018.01
DWG. 16 OF 21

z

**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

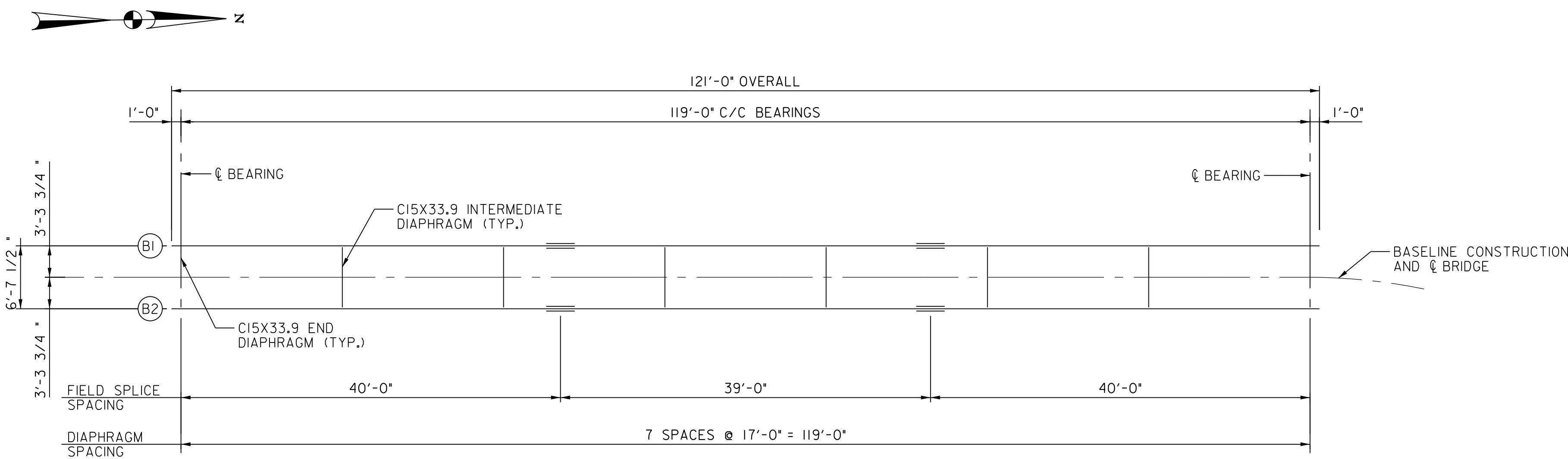
FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

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

JACKING SYSTEM - GENERAL PLAN AND ELEVATION

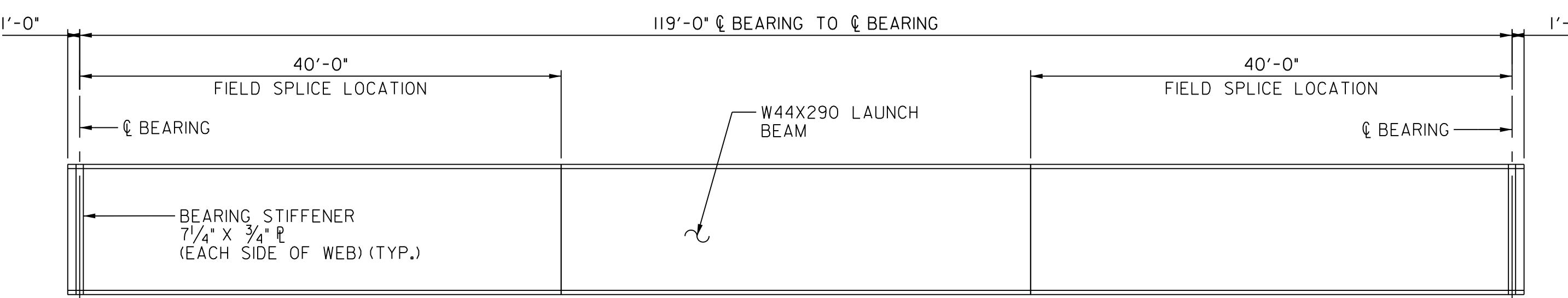


DATE: OCTOBER 2024
SCALE:
FREDERICK COUNTY PROJECT NO.: C6018.6018.01
DWG. 17 OF 21



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	C BRG.	$1/8$	$1/4$	$3/8$	$1/2$	$5/8$	$3/4$	$7/8$	C BRG.	
A										
B										
C										

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

NOTES:

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

S-11

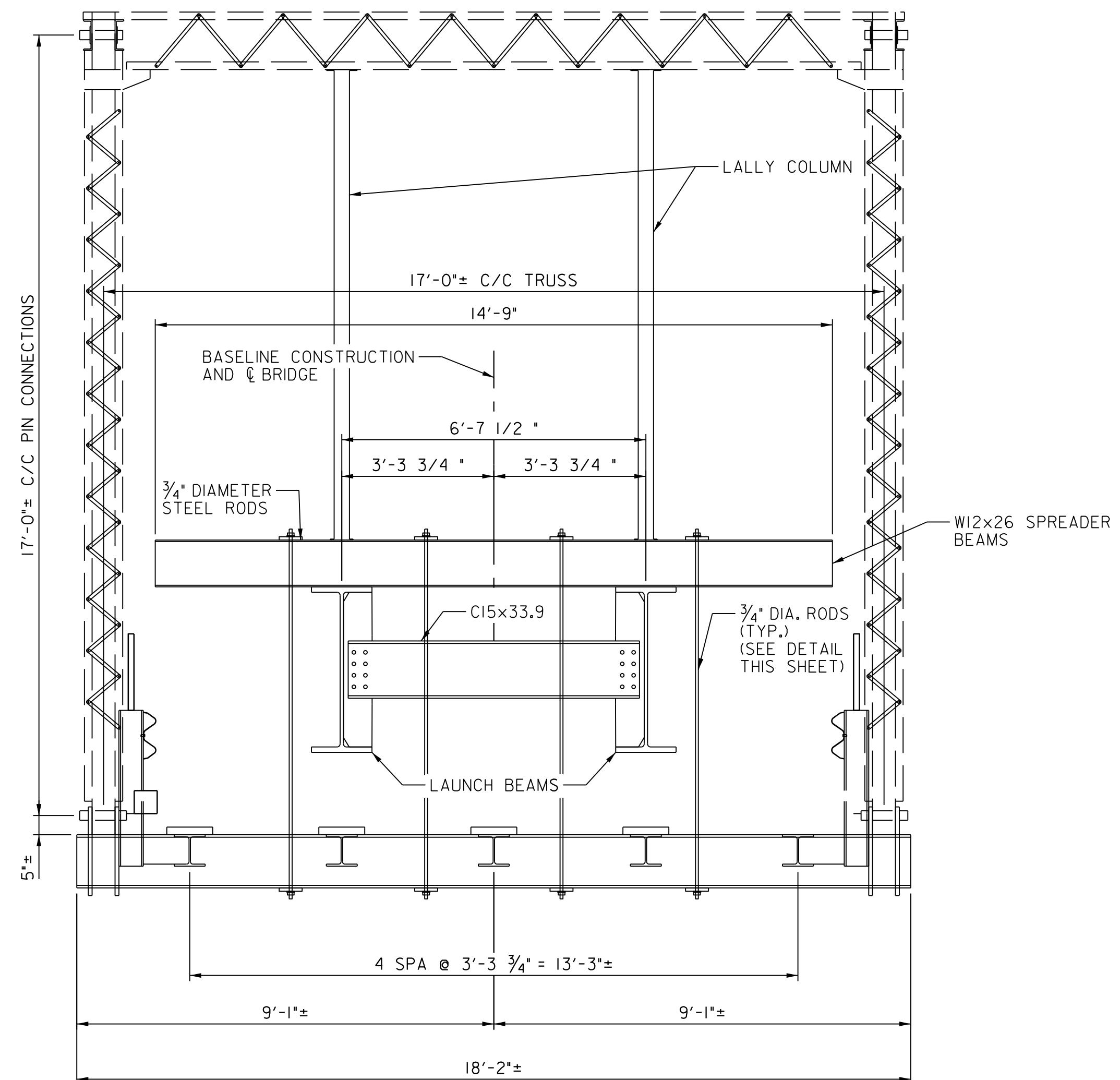
FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

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

JACKING SYSTEM - FRAMING PLAN AND ELEVATION

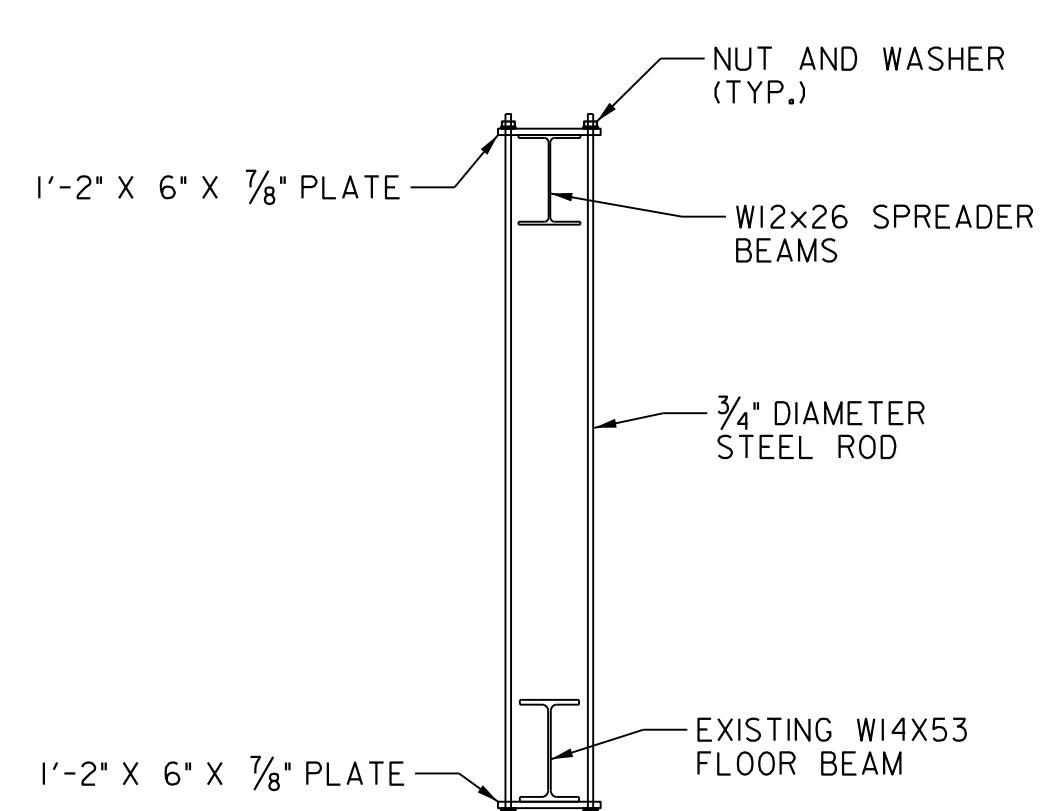


DATE: OCTOBER 2024
SCALE:
FREDERICK COUNTY PROJECT NO.: C6018.6018.01
DWG. 18 OF 21



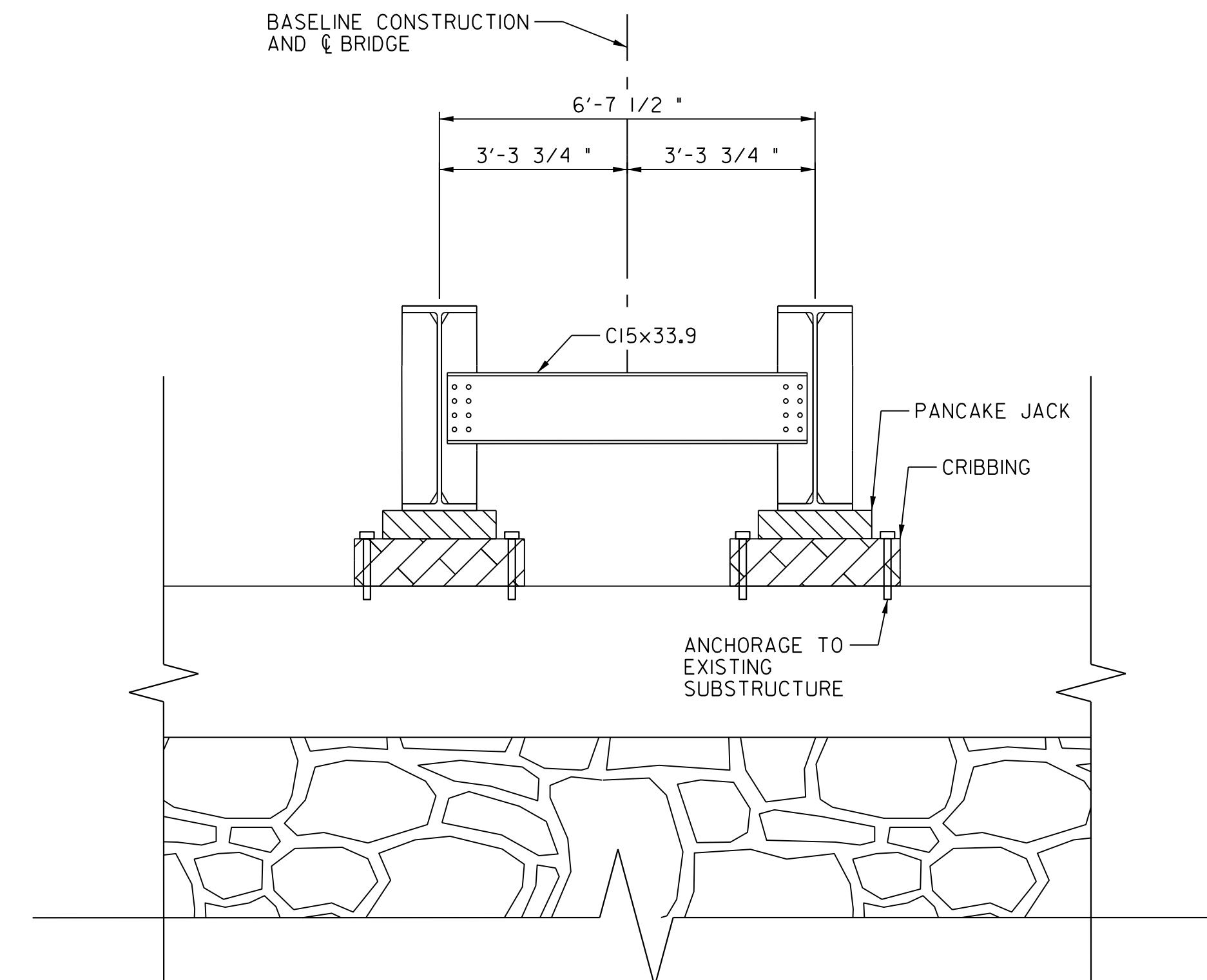
JACKING SYSTEM – TYPICAL SECTION AT MIDSPAN

SCALE: $1/2"$ = $1'-0"$



TIE-ROD CONNECTION DETAIL

SCALE: $\frac{1}{2}$ " = 1'-0"



JACKING SYSTEM – TYPICAL SECTION AT BEARINGS

SCALE: $\frac{1}{3}$ " = 1'-0"

S-12

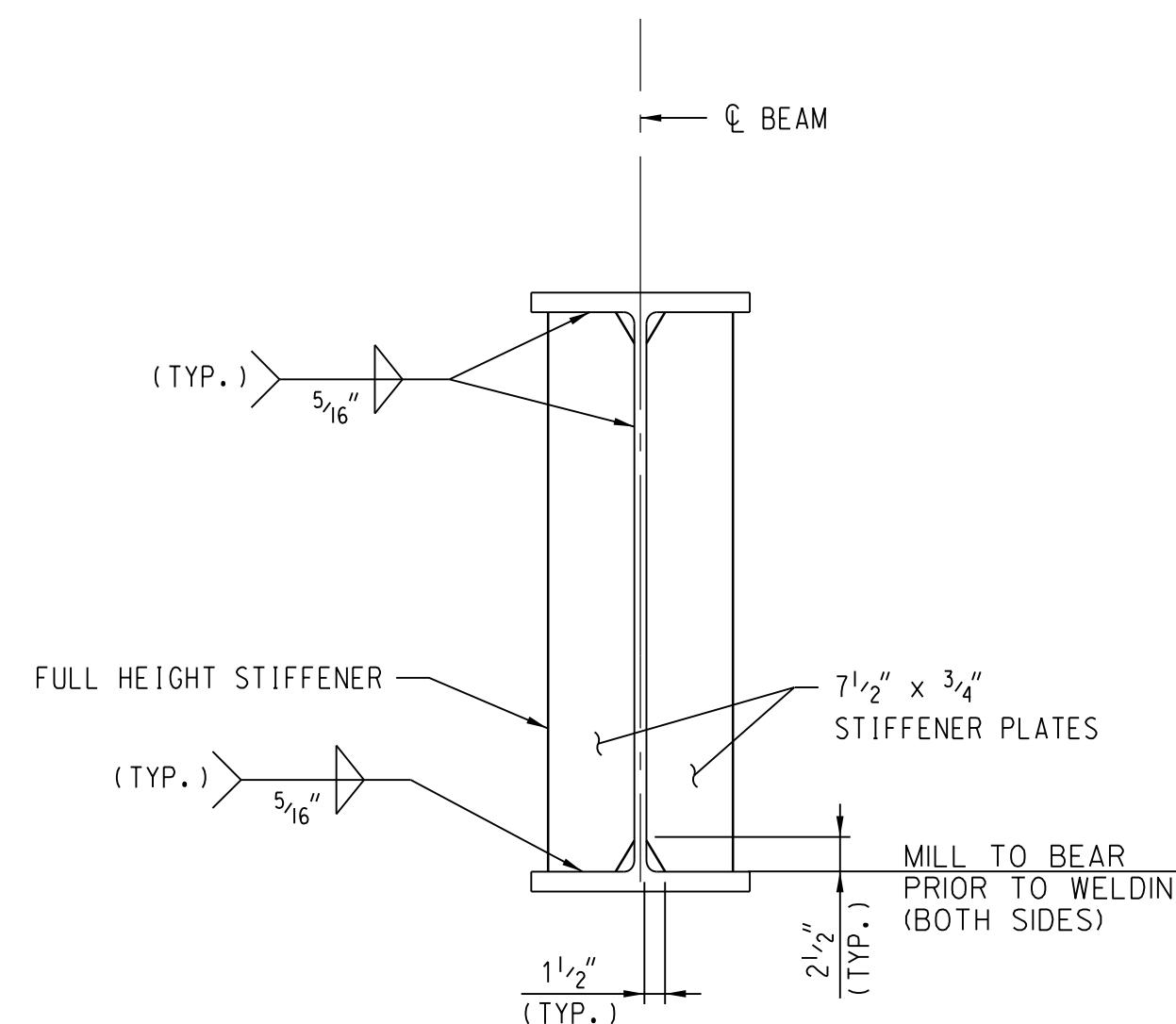
FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

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

JACKING SYSTEM - TYPICAL SECTION

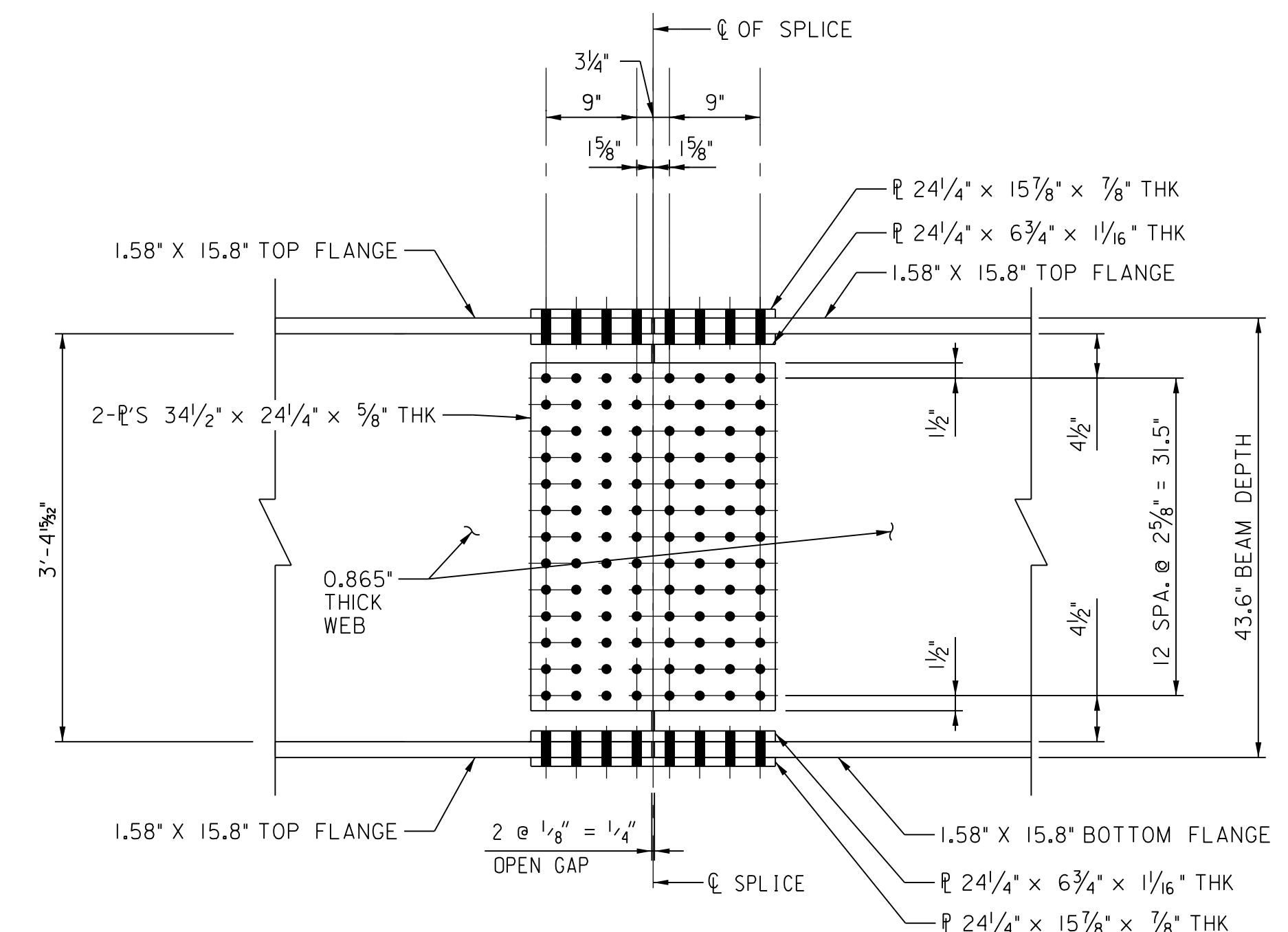


DATE: OCTOBER 2024 SCALE:
FREDERICK COUNTY PROJECT NO.: DWG. 19 OF 21
C6018.6018.01



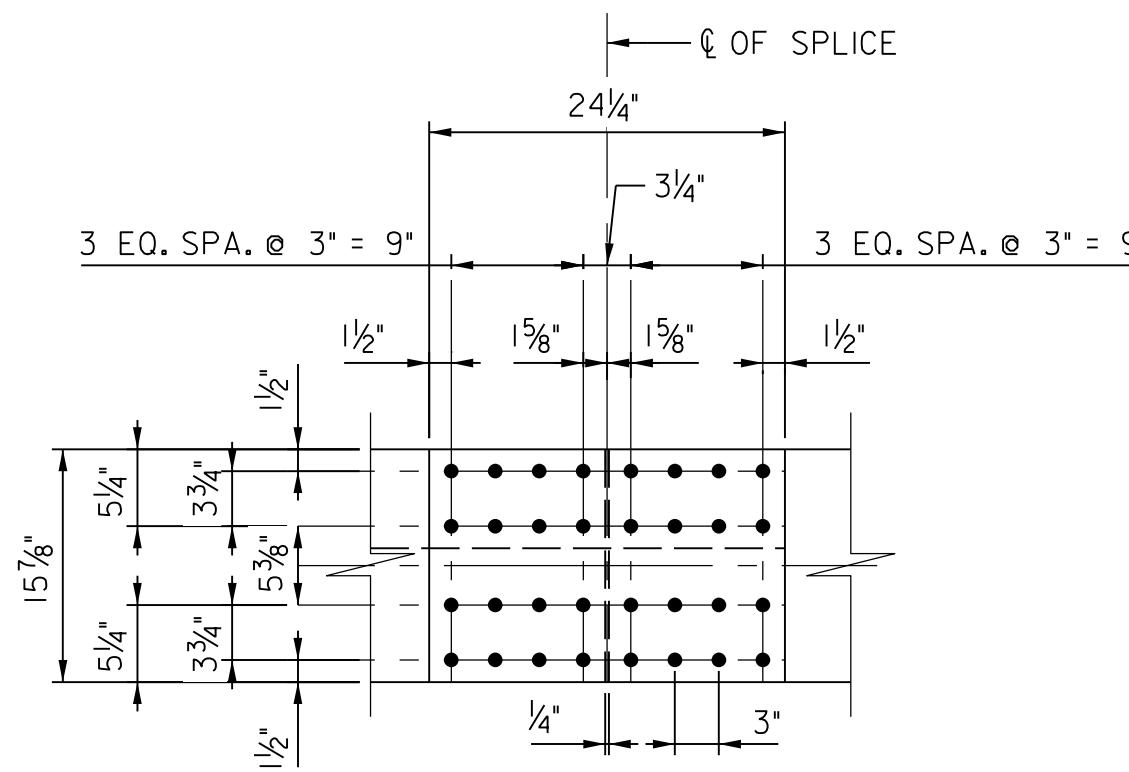
BEARING STIFFENERS AT ENDS OF LAUNCH BEAMS

SCALE: 1" = 1'-0"



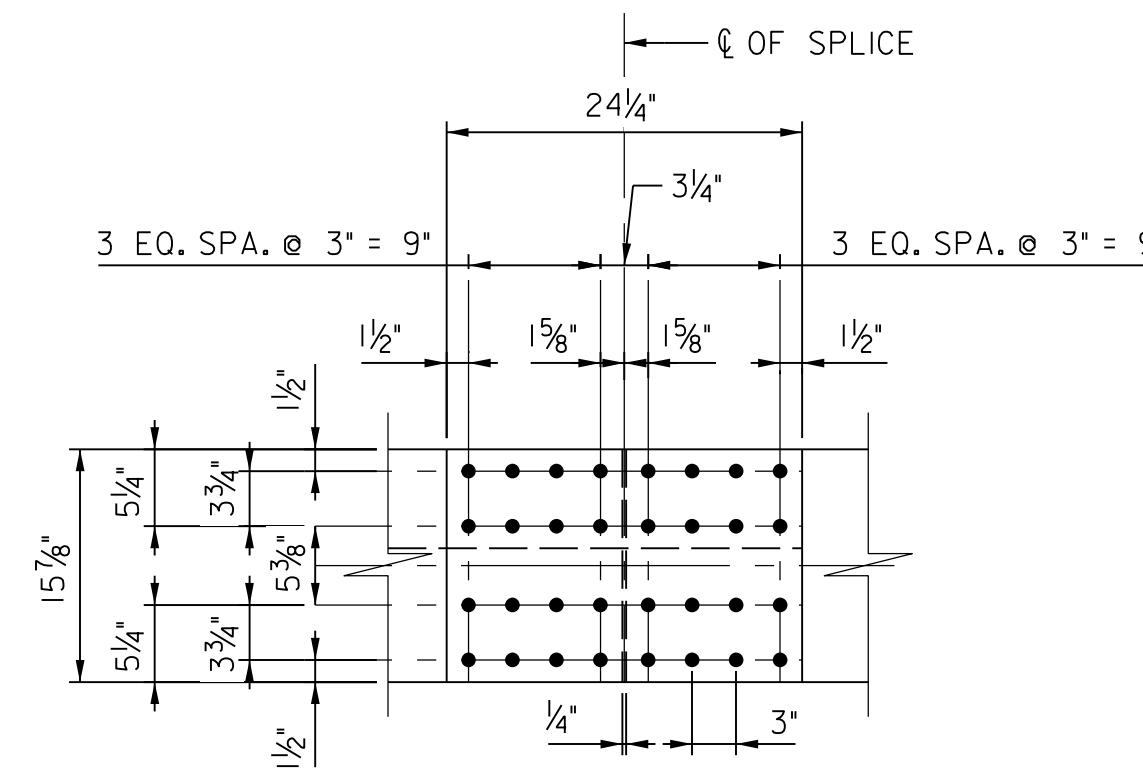
WEB FIELD SPLICE DETAIL

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

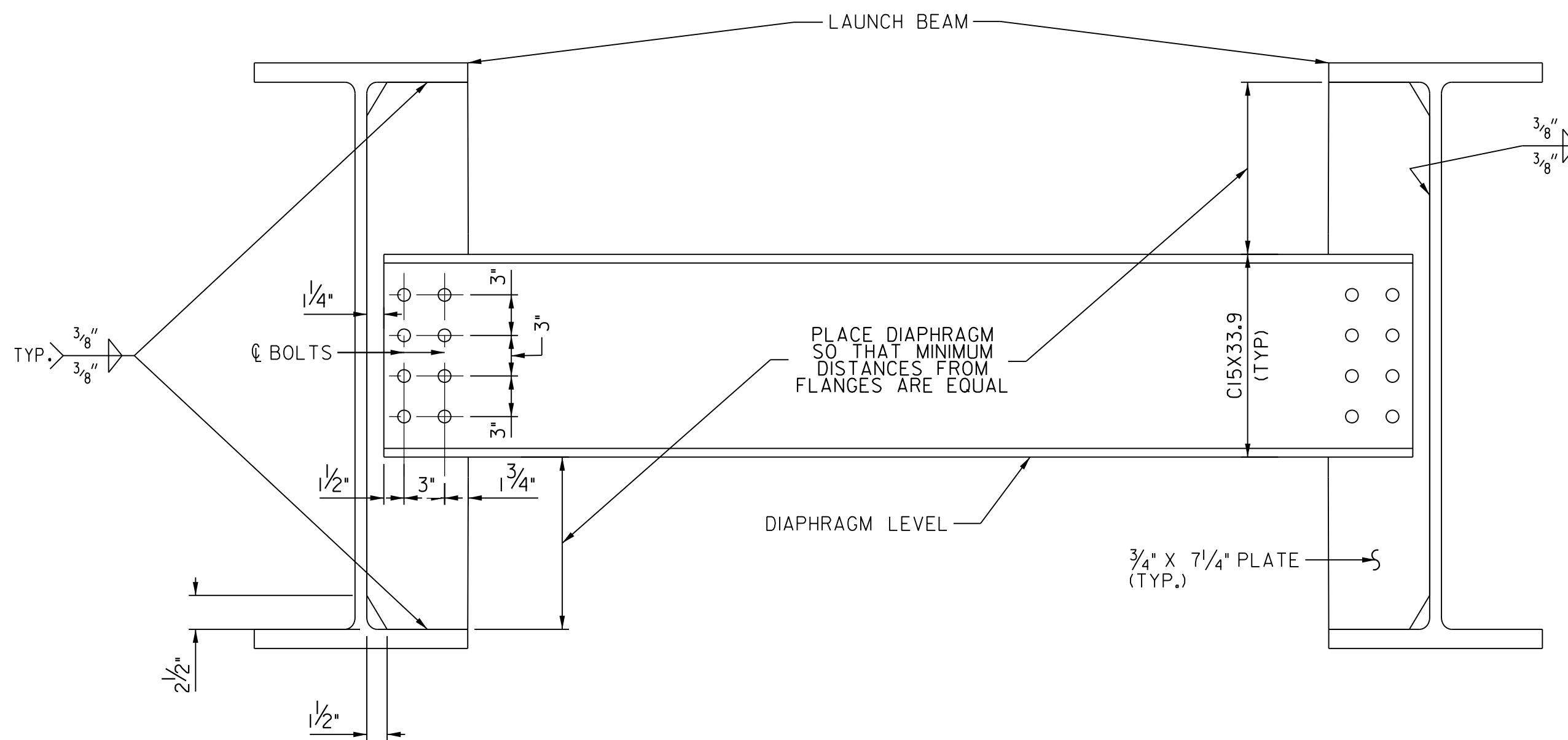
FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

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

JACKING SYSTEM - DETAILS 1

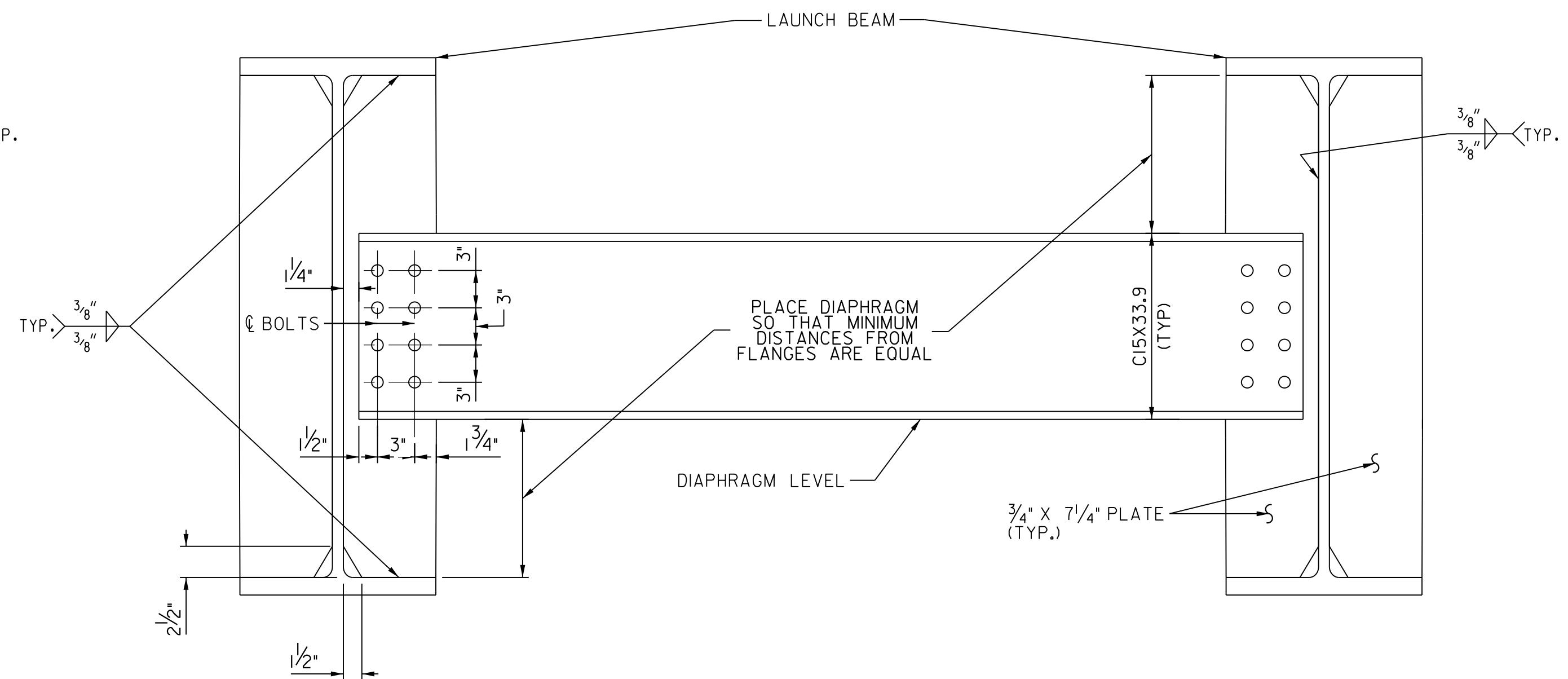


DATE: OCTOBER 2024
SCALE:
FREDERICK COUNTY PROJECT NO.: DWG. 20 OF 21



INTERMEDIATE DIAPHRAGM AND CONNECTION PLATE DETAILS

SCALE: $\frac{1}{2}$ " = 1'-0"



END DIAPHRAGM AND JACKING STIFFENER DETAILS

SCALE: $\frac{1}{2}$ " = 1'-0"

S-14

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

JACKING SYSTEM - DETAILS 2



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