

**NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING**

**ALBANY, NY
JANUARY 30, 2024**

**AMENDMENT NO. 2
TO**

**CONTRACT TAA 23-25B
D214941
THRUWAY BRIDGE REHABILITATION
OVER THE WALLKILL RIVER, MP 81.72
IN THE ALBANY DIVISION
OF THE NEW YORK STATE THRUWAY
IN ULSTER COUNTY**

**IN THE LETTING OF
FEBRUARY 7, 2024**

NOTE: This amendment shall be attached to and become a part of the Proposal for Contract **TAA 23-25B**

NOTICE

For Electronic Bidders, the Project's amended EBSX file will automatically account for any necessary item changes (deletions, changes in quantities, or additions) that this Amendment may describe as being required regarding the project's estimated cost. Instructions to make physical changes to the Project Proposal's bid sheets are intended for "paper" Bidders who choose to submit bids via paper.

Questions and Answers for this project are available from the Authority's website, specifically at: http://www.thruway.ny.gov/netdata/contractors/documents/d214941_taa23-25b_questions-and-answers-01-30-2024.pdf. This document may be updated periodically without formal issuance of an Amendment. Prospective bidders are advised to revisit this link weekly and before proposals are due, for any possible additional questions and answers information.

Additional Supplemental Information for this project is now available from the Authority's website, specifically at: http://www.thruway.ny.gov/netdata/contractors/documents/d214941_taa23-25b_supplemental-information-01-30-2024.zip

The revised quantity workups to reflect the changes as mentioned below are now available and are being provided as additional supplemental information.

PROPOSAL

1. **DELETE** the following Item:

<u>Contract Proposal Page</u>	<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>
182	606.8904	Transition - HPBO (MOD) Corrugated Beam Median Barrier to Box Beam Median Barrier	Each	2.0

“Paper” Bidders (who submit bids via paper) shall **CROSS OUT** and not enter a bid for these items in the Contract Proposal. If the “paper” Bidder fails to make these changes, the Authority will do so and adjust the TOTAL BID, accordingly.

DELETE all other references to the above item in the Contract Plans and Contract Proposal.

2. **CHANGE** the estimated quantity for the following Items:

<u>Contract Proposal Page</u>	<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Initial Estimated Quantity</u>	<u>Revised Estimated Quantity</u>
183	619.1715	Temporary Positive Barrier - Category 5 (Pinning Prohibited)	LF	3,130	660
183	619.1716	Temporary Positive Barrier - Category 6 (Pinning Prohibited)	LF	3,070	1,050
184	637.12 25	Engineer’s Field Office -Type	Mnth	18	36

The “paper” Bidder shall **CROSS OUT** the estimated quantity shown for these items in the Contract Proposal, **WRITE IN** the revised estimated quantity, and submit its bid based on the noted changes. If the Bidder fails to make these changes, the Authority will do so and adjust the BID AMOUNT for the items and TOTAL BID, accordingly.

3. **ADD** the following Items:

<u>Contract Proposal Page</u>	<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>
184A-A2	570.01	Lead Exposure Control Plan	LS	1
184A-A2	570.02	Medical Testing	DC	\$8,000
184A-A2	570.03	Personal Exposure Monitoring Sample Analysis	DC	\$4,000
184A-A2	570.04	Decontamination Facilities	CW	4
184A-A2	570.090001	Environmental Ground Protection (Northbound Structure)	LS	1
184A-A2	570.090002	Environmental Ground Protection (Southbound Structure)	LS	1
184A-A2	570.100001	Environmental Waterway Protection (Northbound Structure)	LS	1

<u>Contract Proposal Page</u>	<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>
184A-A2	570.100002	Environmental Waterway Protection (Southbound Structure)	LS	1
184A-A2	606.8905	Transition: HPBO (MOD.) Corrugated Beam Median Barrier to Weak Post Corrugated Beam Median Barrier	Each	2.0
184A-A2	619.1711	Temporary Positive Barrier - Category 1 (Pinning Prohibited)	LF	2,815
184A-A2	619.1713	Temporary Positive Barrier - Category 3 (Pinning Prohibited)	LF	1,610

“Paper” Bidders must **RETURN THE ATTACHED PAGE 184A-A2** with its bid for this Contract.

PLANS

7. **CHANGE** Drawing Number GNN-1, Sheet 5 of 105 and **DELETE** reference to "TO BE COMPLETED BY OTHERS" on the Work to be Done Notes 6 & 17.
8. **CHANGE** Drawing Number TYP-1, Sheet 6 of 105 on the Typical Section – Mill and Fill detail under the Northbound Travel Lane, **DELETE** reference to (incorrect) Item 685.1205--25 and **REPLACE** with Item number 685.1206--25, instead.
9. **DELETE** Drawing Number TC-2, Sheet 9 of 105 and **REPLACE** with the attached new Drawing Number TC-2-A2, Sheet 9-A2 of 105.
 - Change in Temporary Positive Barrier
10. **DELETE** Drawing Number TC-6, Sheet 13 of 105 and **REPLACE** with the attached new Drawing Number TC-6-A2, Sheet 13-A2 of 105.
 - Change in Temporary Positive Barrier
 - Previous reference to (incorrect) Item 403.25990025 (STAR Removal) has been updated to Item number 649.2599--25
11. **DELETE** Drawing Number TC-7, Sheet 14 of 105 and **REPLACE** with the attached new Drawing Number TC-7-A2, Sheet 14-A2 of 105.
 - Change in Temporary Positive Barrier
 - Previous reference to (incorrect) Item 403.25990025 (STAR Removal) has been updated to Item number 649.2599--25
12. **DELETE** Drawing Number TC-8, Sheet 15 of 105 and **REPLACE** with the attached new Drawing Number TC-8-A2, Sheet 15-A2 of 105.
 - Change in Temporary Positive Barrier
 - Previous reference to (incorrect) Item 403.25990025 (STAR Removal) has been updated to Item number 649.2599--25

13. **DELETE** Drawing Number TC-9, Sheet 16 of 105 and **REPLACE** with the attached new Drawing Number TC-9-A2, Sheet 16-A2 of 105.
 - Change in Temporary Positive Barrier
 - Previous reference to (incorrect) Item 403.25990025 (STAR Removal) has been updated to Item number 649.2599--25
14. **DELETE** Drawing Number TC-10, Sheet 17 of 105 and **REPLACE** with the attached new Drawing Number TC-10-A2, Sheet 17-A2 of 105.
 - Change in Temporary Positive Barrier
 - Previous reference to (incorrect) Item 403.25990025 (STAR Removal) has been updated to Item number 649.2599--25
15. **DELETE** Drawing Number TC-12, Sheet 19 of 105 and **REPLACE** with the attached new Drawing Number TC-12-A2, Sheet 19-A2 of 105.
 - Change in Temporary Positive Barrier
16. **DELETE** Drawing Number TC-16, Sheet 23 of 105 and **REPLACE** with the attached new Drawing Number TC-16-A2, Sheet 23-A2 of 105.
 - Change in Temporary Positive Barrier
 - Previous reference to (incorrect) Item 403.25990025 (STAR Removal) has been updated to Item number 649.2599--25
17. **DELETE** Drawing Number TC-17, Sheet 24 of 105 and **REPLACE** with the attached new Drawing Number TC-17-A2, Sheet 24-A2 of 105.
 - Change in Temporary Positive Barrier
 - Previous reference to (incorrect) Item 403.25990025 (STAR Removal) has been updated to Item number 649.2599--25
18. **DELETE** Drawing Number TC-18, Sheet 25 of 105 and **REPLACE** with the attached new Drawing Number TC-18-A2, Sheet 25-A2 of 105.
 - Change in Temporary Positive Barrier
 - Previous reference to (incorrect) Item 403.25990025 (STAR Removal) has been updated to Item number 649.2599--25
19. **DELETE** Drawing Number TC-19, Sheet 26 of 105 and **REPLACE** with the attached new Drawing Number TC-19-A2, Sheet 26-A2 of 105.
 - Change in Temporary Positive Barrier
 - Previous reference to (incorrect) Item 403.25990025 (STAR Removal) has been updated to Item number 649.2599--25
20. **DELETE** Drawing Number TC-20, Sheet 27 of 105 and **REPLACE** with the attached new Drawing Number TC-20-A2, Sheet 27-A2 of 105.
 - Change in Temporary Positive Barrier
21. **CHANGE** Drawing Number ST-01, Sheet 42 of 105, on the Load Rating Table, under (LFR) **DELETE** the values of 74.52 Tons and 124.20 Tons and **REPLACE** with the values 74 Tons and 124 Tons, respectively. Under CONTROLLING MEMBER, **DELETE** previous reference to “POSITIVE MOMENT”.
22. **CHANGE** Drawing Number ST-03, Sheet 44 of 105, in the STAGE 2 SECTION, **DELETE** only the leader pointing to the right, and **REPLACE** with a new leader and instruction that reads: TEMPORARY POSITIVE BARRIER – CATEGORY 3 (UNPINNED, ITEM 619.1713. The Category 3 Temporary Positive Barrier is required to protect the Stage 2 Superstructure Removal Area.

23. **CHANGE** Drawing Number ST-04, Sheet 45 of 105, in the STAGE 3 SECTION, **DELETE** the incorrect description and item number underneath the (Category 5) temporary positive barrier in between the Southbound and Northbound Temporary Lanes, and **REPLACE** with the following that will read: TEMPORARY POSITIVE BARRIER – CATEGORY 3 (UNPINNED, ITEM 619.1713. The Temporary Positive Barrier has been changed from a Category 5 to a Category 3.
24. **DELETE** Drawing Number ST-07, Sheet 48 of 105 and **REPLACE** with the attached new Drawing Number ST-07-A2, Sheet 48-A2 of 105.
 - The Estimate of Quantities Table has been updated
25. **CHANGE** Drawing Number ST-08, Sheet 49 of 105, under **METALIZING NOTES**, and specifically Note 7., **DELETE** the first sentence and **REPLACE** with the following first sentence that shall read: “THE DESIGN OF THIS STRUCTURE ASSUMES THAT THE STRUCTURAL STEEL IS COMPLETELY ERECTED AND CONCRETE COUNTERWEIGHTS AT BOTH ABUTMENTS POURED BEFORE IT IS ALLOWED TO DEFLECT UNDER ITS OWN DEAD LOAD.”. The sentences that follow the first sentence in Note 7. remain the same. The intent of this change is to provide better direction on erection of drop-in segment in Span 2 after concrete counterweights are poured.
26. **DELETE** Drawing Number ST-09, Sheet 50 of 105 and **REPLACE** with the attached new Drawing Number ST-09-A2, Sheet 50-A2 of 105.
 - Note 3 has been updated
 - Location of fiber optic conduit moved to the front face of abutments
 - Section marks have been added to match the Sections on Drawing Number ST-11
27. **DELETE** Drawing Number ST-10, Sheet 51 of 105 and **REPLACE** with the attached new Drawing Number ST-10-A2, Sheet 51-A2 of 105.
 - Note 3 has been updated
 - Location of fiber optic conduit moved to the front face of abutments
 - Existing fiber optic conduit clipped at front face of abutments
 - Section marks have been added to match the Sections on Drawing Number ST-11
28. **DELETE** Drawing Number ST-11, Sheet 52 of 105 and **REPLACE** with the attached new Drawing Number ST-11-A2, Sheet 52-A2 of 105.
 - Seat Elevations have updated
 - The limits of PCSD have been modified
 - Section marks have been updated to reflect the appropriate drawings in which the sections are located
 - The Note regarding “EXISTING DRAINAGE PIPE TO BE MAINTAINED” has been appended with “IF ENCOUNTERED DURING EXCAVATION”
29. **DELETE** Drawing Number ST-12, Sheet 53 of 105 and **REPLACE** with the attached new Drawing Number ST-12-A2, Sheet 53-A2 of 105.
 - The Pile numbers have been revised
 - The Rock Elevations have been updated
 - The Pile Table has been updated
30. **DELETE** Drawing Number ST-13, Sheet 54 of 105 and **REPLACE** with the attached new Drawing Number ST-13-A2, Sheet 54-A2 of 105.
 - The Pile numbers have been revised
 - Other minor annotation revisions

31. **DELETE** Drawing Number ST-14, Sheet 55 of 105 and **REPLACE** with the attached new Drawing Number ST-14-A2, Sheet 55-A2 of 105.
 - Notes have been added to identify lead paint on existing girders
32. **DELETE** Drawing Number ST-15, Sheet 56 of 105 and **REPLACE** with the attached new Drawing Number ST-15-A2, Sheet 56-A2 of 105.
 - Updated the Item Table quantities
 - Existing pedestal linework has been revised to match the existing and proposed elevations
 - Repair hatches which were not previously shown have been added and quantities have been corrected
 - Eliminated references to Class D repairs below the existing grade. No excavation is needed to make concrete repairs
 - 13ft high concrete work previously hatched as Item 555.09, Class HP Concrete on the ELEVATION Detail on the far right of the Southbound side has been removed
 - New Note 10. regarding Concrete Class A Repair has been added and it references Drawing Number ST-27
33. **DELETE** Drawing Number ST-16, Sheet 57 of 105 and **REPLACE** with the attached new Drawing Number ST-16-A2, Sheet 57-A2 of 105.
 - Updated the Item Table quantities
 - Proposed pedestal linework was changed
 - Elevation for wingwall seat updated.
 - Bearing plate linework is updated, incorporating the keeper plates.
 - Anchor Bolt Layout table is updated
34. **DELETE** Drawing Number ST-17, Sheet 58 of 105 and **REPLACE** with the attached new Drawing Number ST-17-A2, Sheet 58-A2 of 105.
 - Updated the Item Table quantities
 - Repair hatches not previously shown have been added and quantities have been corrected
35. **DELETE** Drawing Number ST-18, Sheet 59 of 105 and **REPLACE** with the attached new Drawing Number ST-18-A2, Sheet 59-A2 of 105.
 - Updated the Item Table quantities
36. **DELETE** Drawing Number ST-19, Sheet 60 of 105 and **REPLACE** with the attached new Drawing Number ST-19-A2, Sheet 60-A2 of 105.
 - Updated the Item Table quantities
 - Repair hatches not previously shown have been added and quantities have been corrected
 - Pedestal Linework on the fascia pedestals for both pier caps have been updated
37. **DELETE** Drawing Number ST-20, Sheet 61 of 105 and **REPLACE** with the attached new Drawing Number ST-20-A2, Sheet 61-A2 of 105.
 - Updated the Item Table quantities
38. **DELETE** Drawing Number ST-21, Sheet 62 of 105 and **REPLACE** with the attached new Drawing Number ST-21-A2, Sheet 62-A2 of 105.
 - Updated the Item Table quantities
 - Existing pedestal linework has been revised to match the existing and proposed elevations
 - Repair hatches not previously shown have been added and quantities have been corrected

39. **DELETE** Drawing Number ST-22, Sheet 63 of 105 and **REPLACE** with the attached new Drawing Number ST-22-A2, Sheet 63-A2 of 105.
 - Updated the Item Table quantities
 - Bearing plate linework have been updated, incorporating the keeper plates
 - The Anchor Bolt Layout Table has been updated
40. **DELETE** Drawing Number ST-23, Sheet 64 of 105 and **REPLACE** with the attached new Drawing Number ST-23-A2, Sheet 64-A2 of 105.
 - Updated Existing pedestal elevations
41. **DELETE** Drawing Number ST-24, Sheet 65 of 105 and **REPLACE** with the attached new Drawing Number ST-24-A2, Sheet 65-A2 of 105.
 - Updated Existing pedestal elevations
42. **DELETE** Drawing Number ST-25, Sheet 66 of 105 and **REPLACE** with the attached new Drawing Number ST-25-A2, Sheet 66-A2 of 105.
 - Updated Existing pedestal elevations
43. **DELETE** Drawing Number ST-26, Sheet 67 of 105 and **REPLACE** with the attached new Drawing Number ST-26-A2, Sheet 67-A2 of 105.
 - A callout was added to correctly identify an item number for drilling and grouting of rebars with pull out testing
 - A new Note 7. has been added to provide information for the drilling and grouting (and with pull out testing) items
 - A new Type D Waterstop Detail has been added to the top right corner of the drawing
44. **DELETE** Drawing Number ST-28, Sheet 69 of 105 and **REPLACE** with the attached new Drawing Number ST-28-A2, Sheet 69-A2 of 105.
 - Keeper plate details have been added below the Notes
 - On the Bearing Table, the Ez and Et Values and Width of Masonry Plate have been updated
 - A Keeper load column was added before the Shape Factor column
 - A New Note 14. has been added regarding the keeper plate height
45. **DELETE** Drawing Number ST-30, Sheet 71 of 105 and **REPLACE** with the attached new Drawing Number ST-30-A2, Sheet 71-A2 of 105.
 - Bearing design loads and other Bearing Table values have been updated
46. **DELETE** Drawing Number ST-33, Sheet 74 of 105 and **REPLACE** with the attached new Drawing Number ST-33-A2, Sheet 74-A2 of 105.
 - Two new notes have been added. An erection note now alerts the Contractor of single girder instability due to its long unbraced length, and the other is regarding steel material fabrication
47. **DELETE** Drawing Number ST-34, Sheet 75 of 105 and **REPLACE** with the attached new Drawing Number ST-34-A2, Sheet 75-A2 of 105.
 - Note 4 has been revised for where welding is allowed, for the removal of metalizing to perform welding
48. **DELETE** Drawing Number ST-41, Sheet 82 of 105 and **REPLACE** with the attached new Drawing Number ST-41-A2, Sheet 82-A2 of 105.
 - The Northbound Camber Table values have been updated

49. **DELETE** Drawing Number ST-42, Sheet 83 of 105 and **REPLACE** with the attached new Drawing Number ST-42-A2, Sheet 83-A2 of 105.
 - The Southbound Camber Table values have been updated
50. **DELETE** Drawing Number ST-43, Sheet 84 of 105 and **REPLACE** with the attached new Drawing Number ST-43-A2, Sheet 84-A2 of 105.
 - The Northbound Haunch Table values have been updated
51. **DELETE** Drawing Number ST-44, Sheet 85 of 105 and **REPLACE** with the attached new Drawing Number ST-44-A2, Sheet 85-A2 of 105.
 - The Southbound Haunch Table values have been updated
52. **DELETE** Drawing Number ST-48, Sheet 89 of 105 and **REPLACE** with the attached new Drawing Number ST-48-A2, Sheet 89-A2 of 105.
 - Quantities have been added to the Approach Slab Table
 - Note 5 has been revised to remove sawcut grooving of exposed areas of the top of sleeper slab
 - Note 7 has been revised and it now also references Drawing Numbers ST-49 and ST-50.
53. **DELETE** Drawing Number ST-49, Sheet 90 of 105 and **REPLACE** with the attached new Drawing Number ST-49-A2, Sheet 90-A2 of 105.
 - A new Armorless Bridge Joint Section detail with Notes has been provided replacing the previous Joint Sealing Detail
 - An Expansion Joint Opening Table is now provided
54. **DELETE** Drawing Number ST-50, Sheet 91 of 105 and **REPLACE** with the attached new Drawing Number ST-50-A2, Sheet 91-A2 of 105.
 - A Note was added to Section A-A for the At Approach and Sleeper Slab Detail regarding the header concrete for the modular joint
55. **CHANGE** Drawing Number ST-57, Sheet 98 of 105, **DELETE** existing Note **3**, and **REPLACE** with the following Note **3**. "CONCRETE ANCHORS MUST HAVE A WORKING CAPACITY OF A COMBINED **5** KIPS IN SHEAR AND **12** KIPS IN TENSION.". The temporary concrete tie-downs angle size and concrete anchor loads are now provided.
56. **DELETE** Drawing Number ST-58, Sheet 99 of 105 and **REPLACE** with the attached new Drawing Number ST-58-A2, Sheet 99-A2 of 105.
 - A previous reference to a Section A-A (between one and two, near the top left corner) has been removed from the Concrete Counterweight Layout Plan
 - Note 4 has been updated to correct the pay item for the formwork to place the concrete for the counterweight. This work is now to be included under Item 555.0105, Concrete for Structures, Class A.
57. **DELETE** Drawing Number ST-62, Sheet 103 of 105 and **REPLACE** with the attached new Drawing Number ST-62-A2, Sheet 103-A2 of 105.
 - The Substructure Bar lengths and quantities have been revised
58. **DELETE** Drawing Number ST-63, Sheet 104 of 105 and **REPLACE** with the attached new Drawing Number ST-63-A2, Sheet 104-A2 of 105.
 - The Substructure Bar lengths and quantities have been revised

59. **DELETE** Drawing Number ST-64, Sheet 105 of 105 and **REPLACE** with the attached new Drawing Number ST-64-A2, Sheet 105-A2 of 105.
- The Barriers and Counterweights Bar lengths and quantities have been revised

The Bidder **MUST** complete Page **199** of the Proposal acknowledging receipt of this amendment. If the Bidder fails to complete the “Amendment Acknowledgement” sheet, his bid could be declared informal thereby delaying award of the contract.

PLEASE BE GOVERNED ACCORDINGLY WHEN SUBMITTING BIDS.

Brent E. Howard, P.E.
Acting Chief Engineer



01/26/2024 11:33:24 AM

AASHTOWare Project™ Version 5.00 Revision 031

Proposal Schedule of Items

Proposal ID: D214941

Project(s): A72128

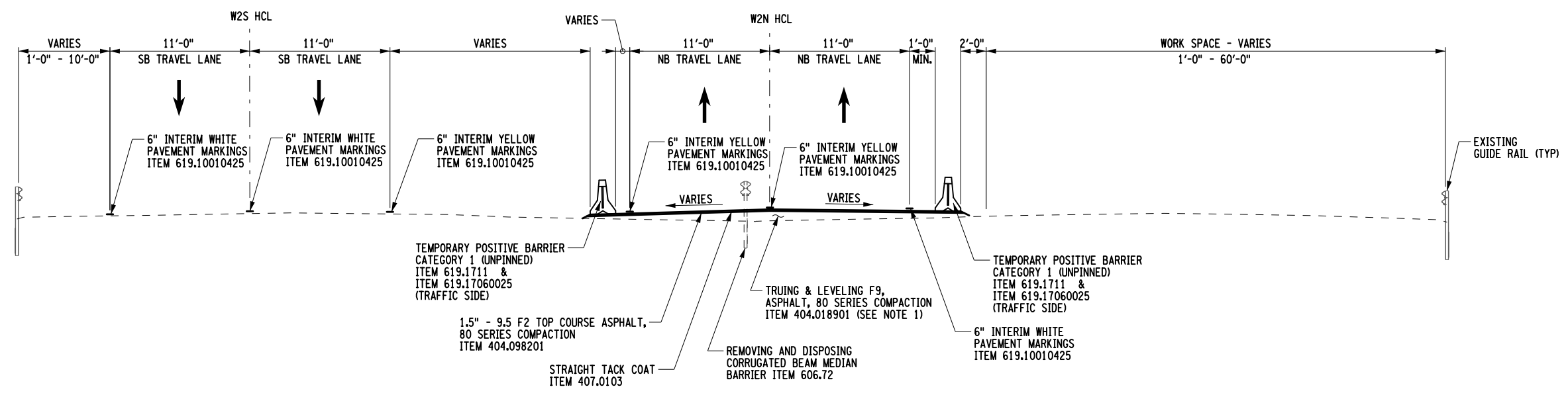
Contractor: _____

SECTION: 0001 SECTION 1

Alt Set ID: **Alt Mbr ID:**

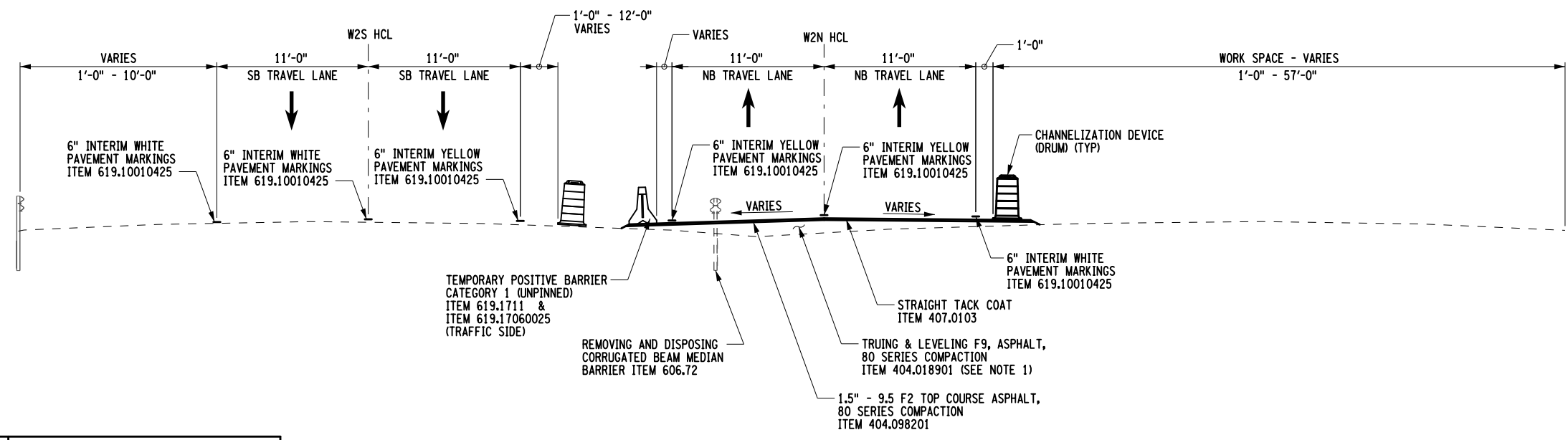
Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0300	570.01 LEAD EXPOSURE CONTROL PLAN	LUMP SUM	LUMP SUM		_____.	_____.
0302	570.02 MEDICAL TESTING	8,000.000 DC		1.00000		8,000.00
0304	570.03 PERSONAL EXPOSURE MONITORING SAMPLE ANALYSIS	4,000.000 DC		1.00000		4,000.00
0306	570.04 DECONTAMINATION FACILITIES	4.000 CW			_____.	_____.
0308	570.090001 ENVIRONMENTAL GROUND PROTECTION	LUMP SUM	LUMP SUM		_____.	_____.
0310	570.090002 ENVIRONMENTAL GROUND PROTECTION	LUMP SUM	LUMP SUM		_____.	_____.
0312	570.100001 ENVIRONMENTAL WATERWAY PROTECTION	LUMP SUM	LUMP SUM		_____.	_____.
0314	570.100002 ENVIRONMENTAL WATERWAY PROTECTION	LUMP SUM	LUMP SUM		_____.	_____.
0316	606.8905 TRANSITION - HPBO (MOD) CORRUGATED BEAM MEDIAN BARRIER TO WEAK POST CORRUGATED MEDIAN BARRIER	2.000 EACH			_____.	_____.
0318	619.1711 TEMPORARY POSITIVE BARRIER - CATEGORY 1 (PINNING PROHIBITED)	2,815.000 LF			_____.	_____.
0320	619.1713 TEMPORARY POSITIVE BARRIER - CATEGORY 3 (PINNING PROHIBITED)	1,610.000 LF			_____.	_____.

THIS SHEET SUPERSEDES SHEET 9
IN ITS ENTIRETY



STAGE 2 CROSSOVER SECTION

NTS
STA W2S 11+74 TO STA W2S 16+69
STA W2N 11+00 TO STA W2N 17+39



STAGE 2 CROSSOVER SECTION

NTS
STA W2S 23+58 TO STA W2S 29+76
STA W2N 24+26 TO STA W2N 30+66

NOTE:
1. REFER TO TC-7 AND TC-9 FOR EXISTING AND PROPOSED ELEVATIONS FOR TEMPORARY MEDIAN PAVEMENT.

M. COLLINGWOOD
 CHECK
 T. BURTNICK
 DRAFTING
 M. COLLINGWOOD
 CHECK
 R. JABLONSKI
 DESIGN
 M. COLLINGWOOD
 DESIGN SUPERVISOR
 DATE/TIME = 24-JAN-2024 2:48:03
 USER = jmtgw1-pr-svc
 FILE NAME =

ALTERED BY:
ON:

AFFIX SEAL: MATTHEW WAYNE COLLINGWOOD
ON: 01/24/2024



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

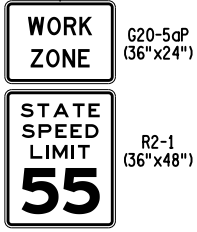
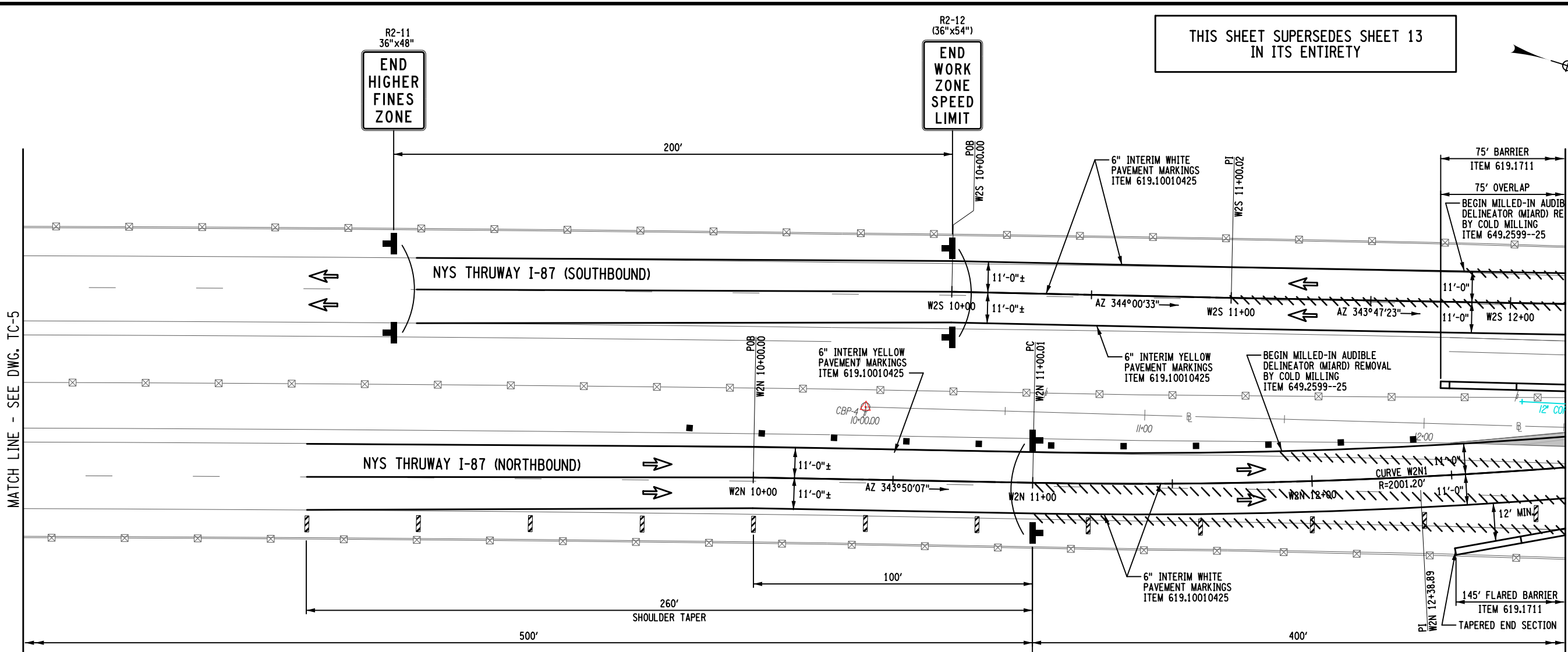
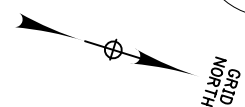


TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72	DATE: 01/24/2024
TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL TYPICAL SECTIONS - STAGE 2	DRAWING NUMBER: TC-2

USER = jmtpx11-pr-svc
 DATE/TIME = 24-JAN-2024 21:03
 FILE NAME =
 M. COLLINGWOOD
 T. BURTNICK
 M. COLLINGWOOD
 R. JABLONSKI
 M. COLLINGWOOD

13A2
 105
 GRID
 NORTH

THIS SHEET SUPERSEDES SHEET 13
 IN ITS ENTIRETY

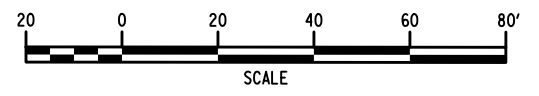


LEGEND	
	WORK SPACE
	TEMPORARY BARRIER
	CHANNELIZING DEVICE @ 40 FT. SPACING, ITEM 619.01
	TEMPORARY SIGN, ITEM 619.01
	TYPE III BARRICADE @ 40 FT. SPACING, ITEM 619.04
	COVER EXISTING PAVEMENT MARKINGS, ITEM 619.0803
	DIRECTION OF TRAFFIC
	TEMPORARY PAVEMENT & RESTORATION AREA
	WARNING FLAG TREE MIN. 18"x18"

WORK ZONE TRAFFIC CONTROL PLAN - STAGE 2

- NOTES:**
- WORK SPACE (MATERIAL STORAGE, EQUIPMENT, WORKERS, ETC.) SHALL NOT ENCR OACH WITHIN THE DEFLECTION DISTANCE OF ADJACENT TCB AND/OR GUIDE RAILING.
 - MILLED-IN AUDIBLE ROADWAY DELINEATORS REMOVED FOR WORK ZONE TRAFFIC CONTROL ACTIVITIES SHALL BE REESTABLISHED UNDER ITEM 649.01.

CURVE W2N1	
PC	= STA. W2N 11+00.01
PRC	= STA. W2N 13+77.32
R	= 2001.20'
L	= 277.31'
T	= 138.88'
Δ	= 07°-56'-22"
emax	= N.C.



ALTERED BY:
 ON:



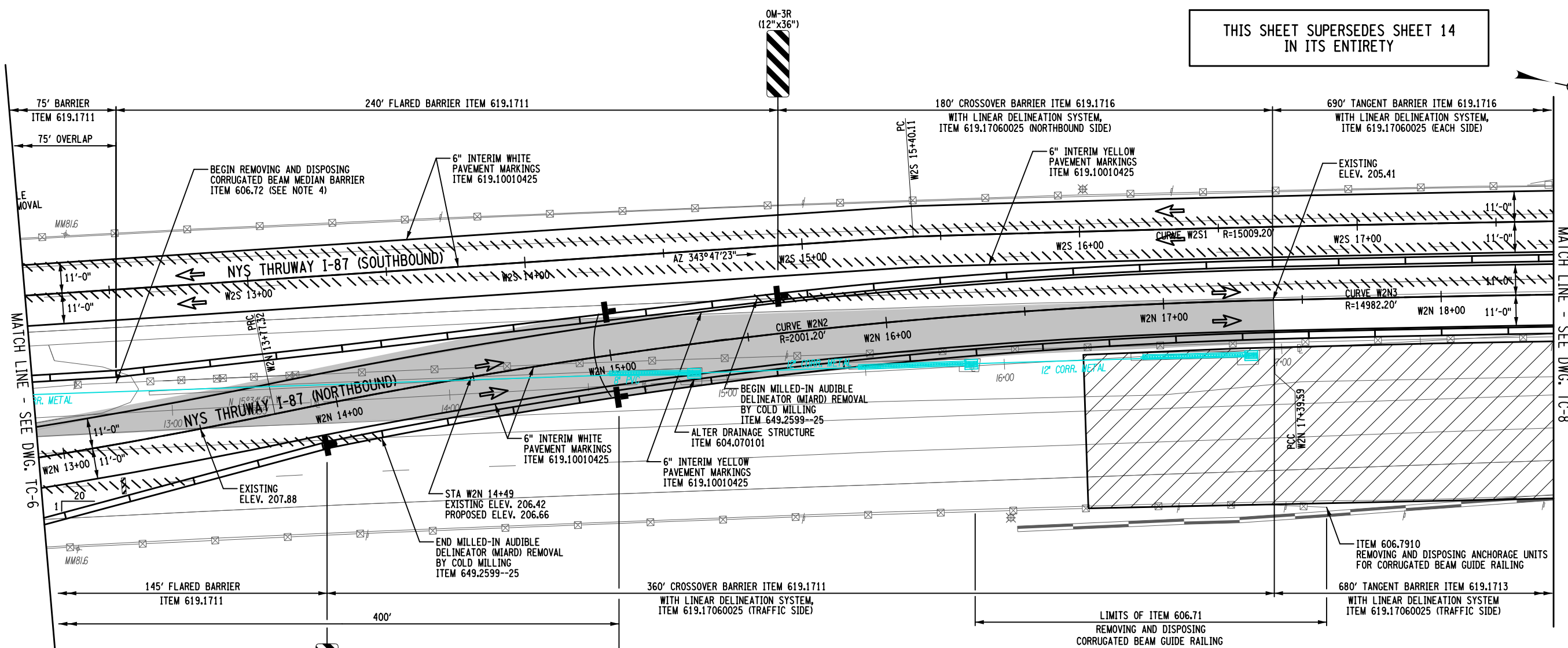
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

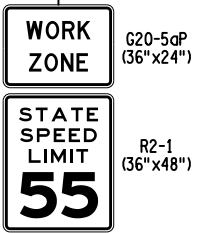


TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72	DATE: 01/24/2024
TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL PLANS - STAGE 2 WALLKILL BRIDGE (3 OF 8)	DRAWING NUMBER: TC-6

THIS SHEET SUPERSEDES SHEET 14
IN ITS ENTIRETY



MATCH LINE - SEE DWG. TC-8



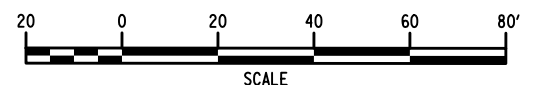
WORK ZONE TRAFFIC CONTROL PLAN - STAGE 2

LEGEND	
	WORK SPACE
	TEMPORARY BARRIER
	CHANNELIZING DEVICE @ 40 FT. SPACING, ITEM 619.01
	TEMPORARY SIGN, ITEM 619.01
	TYPE III BARRICADE @ 40 FT. SPACING, ITEM 619.04
	COVER EXISTING PAVEMENT MARKINGS, ITEM 619.0803
	DIRECTION OF TRAFFIC
	TEMPORARY PAVEMENT & RESTORATION AREA
	WARNING FLAG TREE MIN. 18\"X18\"

- NOTES:**
- WORK SPACE (MATERIAL STORAGE, EQUIPMENT, WORKERS, ETC.) SHALL NOT ENCR OACH WITHIN THE DEFLECTION DISTANCE OF ADJACENT TCB AND/OR GUIDE RAILING.
 - MILLED-IN AUDIBLE ROADWAY DELINEATORS REMOVED FOR WORK ZONE TRAFFIC CONTROL ACTIVITIES SHALL BE REESTABLISHED UNDER ITEM 649.01.
 - EXISTING CONCRETE BARRIER ALONG NORTHBOUND SHOULDER TO BE REMOVED AND RETURNED TO NYSTA. COST INCLUDED IN ITEM 619.01
 - EXPOSED END OF CORRUGATED BEAM MEDIAN RAIL TO BE TEMPORARILY ANCHORED TO GROUND UNDER ITEM 606.24 - ANCHORAGE UNITS FOR CORRUGATED BEAM MEDIAN BARRIER. ANCHORAGE UNIT SHALL BE REMOVED AT THE CONCLUSION OF STAGE 3 CONSTRUCTION UNDER ITEM 606.7910 - REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING AND MEDIAN BARRIER

CURVE W2N1	CURVE W2N2
PC = STA. W2N 11+00.01	PC = STA. W2N 13+77.32
PRC = STA. W2N 13+77.32	PCC = STA. W2N 17+39.59
R = 2001.20'	R = 2001.20'
L = 277.31'	L = 362.27'
T = 138.88'	T = 181.63'
$\Delta = 07^{\circ}-56'-22''$	$\Delta = 10^{\circ}-22'-19''$
emax = N.C.	emax = N.C.

CURVE W2N3	CURVE W2S1
PCC = STA. W2N 17+39.59	PC = STA. W2S 15+40.11
PCC = STA. W2N 24+27.21	PT = STA. W2S 24+35.56
R = 14982.20'	R = 15009.20'
L = 687.63'	L = 895.44'
T = 343.87'	T = 447.85'
$\Delta = 02^{\circ}-37'-47''$	$\Delta = 03^{\circ}-25'-06''$
emax = N.C.	emax = N.C.



USER = jmtpx11-pr-svc
 DATE/TIME = 24-JAN-2024 21:03
 FILE NAME =
 M. COLLINGWOOD
 T. BURTNICK
 DRAFTING
 CHECK
 R. JABLONSKI
 DESIGN
 M. COLLINGWOOD
 DESIGN SUPERVISOR

ALTERED BY:
ON:

AFFIX SEAL: MATTHEW WAYNE COLLINGWOOD
ON: 01/24/2024

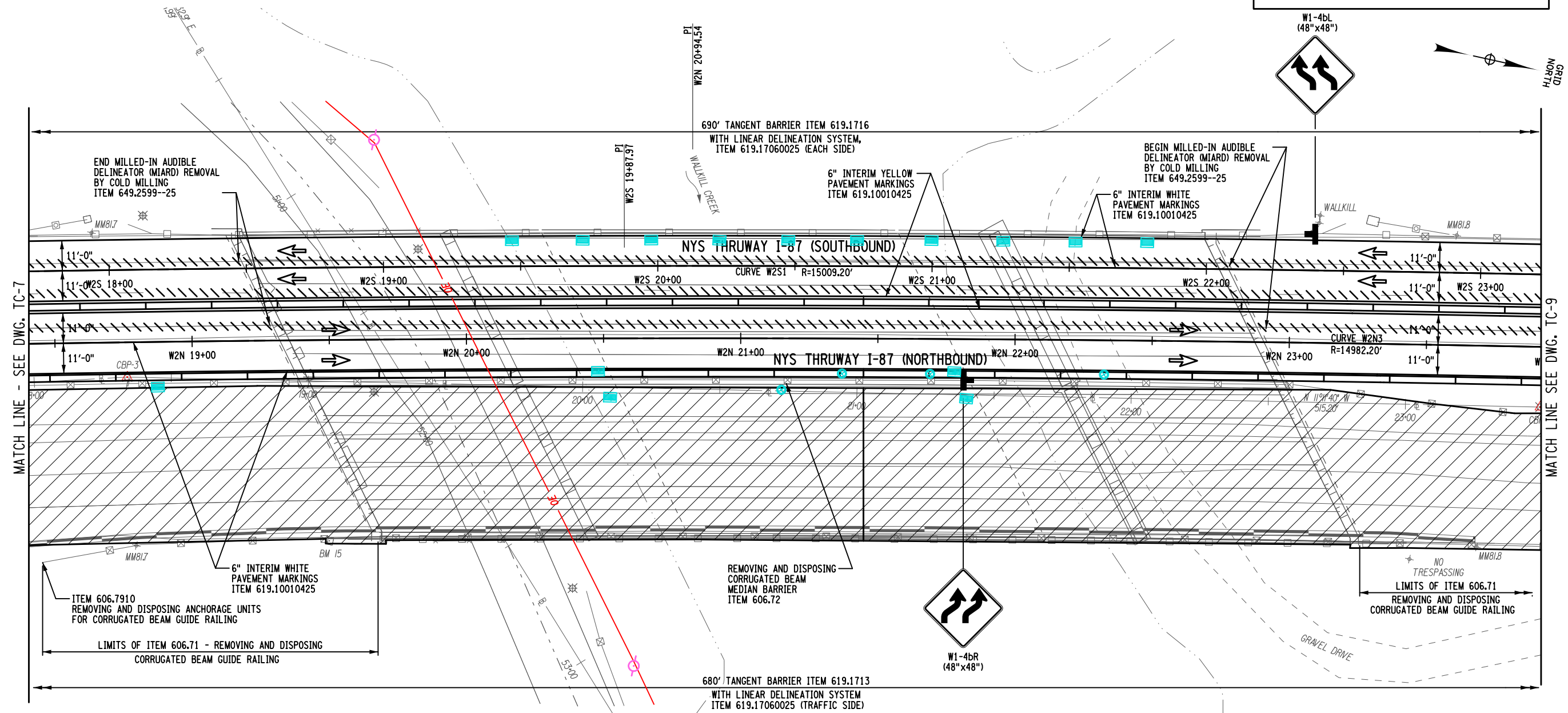
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72	DATE: 01/24/2024
TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL PLANS - STAGE 2 WALLKILL BRIDGE (4 OF 8)	DRAWING NUMBER: TC-7

THIS SHEET SUPERSEDES SHEET 15
IN ITS ENTIRETY



M. COLLINGWOOD
 T. BURTNICK
 DRAFTING
 M. COLLINGWOOD
 CHECK
 R. JABLONSKI
 DESIGN
 M. COLLINGWOOD
 DESIGN SUPERVISOR
 DATE/TIME = 24-JAN-2024 2:04
 USER = jmtpw1-pr-svc
 FILE NAME =

MATCH LINE - SEE DWG. TC-7

MATCH LINE SEE DWG. TC-9

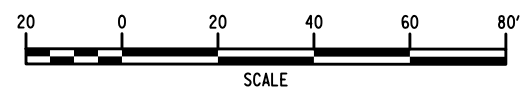
LEGEND

- WORK SPACE
- TEMPORARY BARRIER
- CHANNELIZING DEVICE @ 40 FT. SPACING, ITEM 619.01
- TEMPORARY SIGN, ITEM 619.01
- TYPE III BARRICADE @ 40 FT. SPACING, ITEM 619.04
- COVER EXISTING PAVEMENT MARKINGS, ITEM 619.0803
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT & RESTORATION AREA
- WARNING FLAG TREE MIN. 18"x18"

WORK ZONE TRAFFIC CONTROL PLAN - STAGE 2

- NOTES:**
- WORK SPACE (MATERIAL STORAGE, EQUIPMENT, WORKERS, ETC.) SHALL NOT ENCR OACH WITHIN THE DEFLECTION DISTANCE OF ADJACENT TCB AND/OR GUIDE RAILING.
 - MILLED-IN AUDIBLE ROADWAY DELINEATORS REMOVED FOR WORK ZONE TRAFFIC CONTROL ACTIVITIES SHALL BE REESTABLISHED UNDER ITEM 649.01.
 - EXISTING CONCRETE BARRIER ALONG NORTHBOUND SHOULDER TO BE REMOVED AND RETURNED TO NYSTA. COST INCLUDED IN ITEM 619.01

CURVE W2S1	CURVE W2N3
PC = STA. W2S 15+40.11	PCC = STA. W2N 17+39.59
PT = STA. W2S 24+35.56	PCC = STA. W2N 24+27.21
R = 15009.20'	R = 14982.20'
L = 895.44'	L = 687.63'
T = 447.85'	T = 343.87'
Δ = 03°-25'-06"	Δ = 02°-37'-47"
emax = N.C.	emax = N.C.



ALTERED BY:
ON:

AFFIX SEAL: MATTHEW WAYNE COLLINGWOOD
ON: 01/24/2024

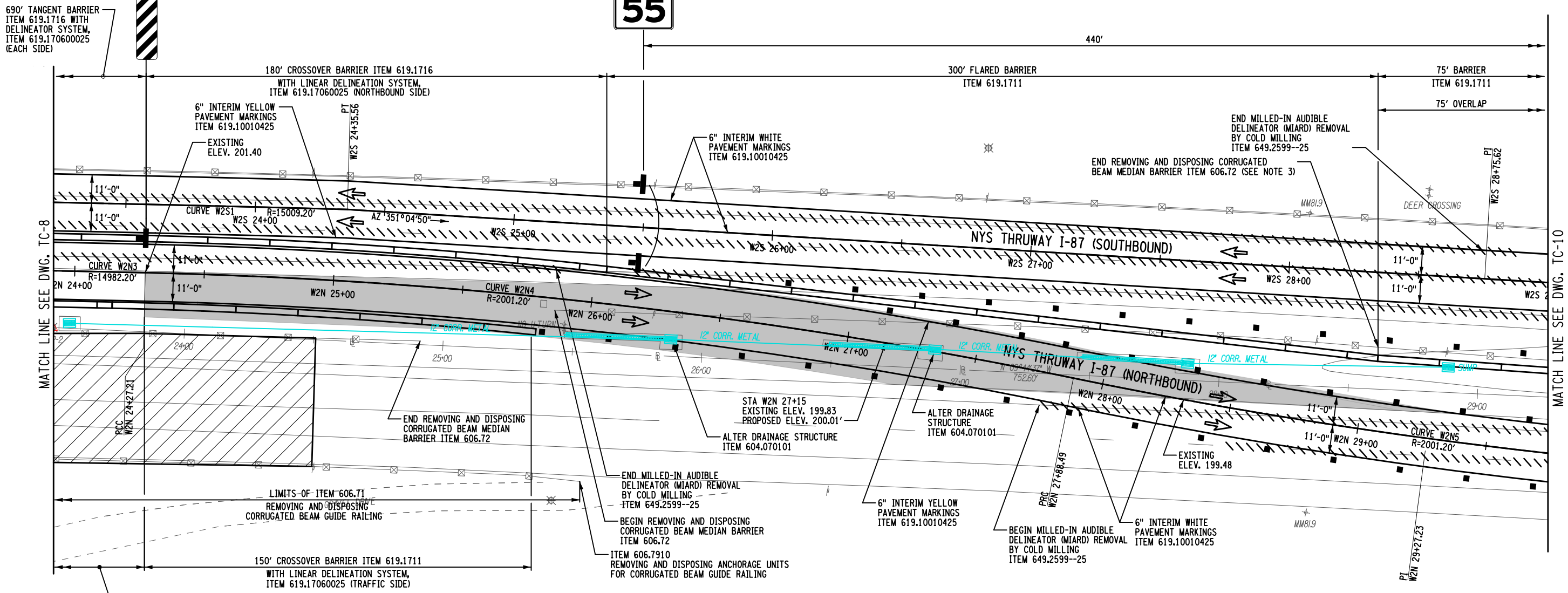
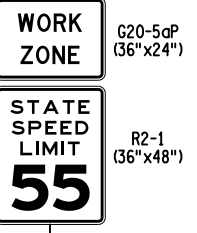
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALKKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72	DATE: 01/24/2024
TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL PLANS - STAGE 2 WALKKILL BRIDGE (5 OF 8)	DRAWING NUMBER: TC-8

THIS SHEET SUPERSEDES SHEET 16
IN ITS ENTIRETY



WORK ZONE TRAFFIC CONTROL PLAN - STAGE 2

LEGEND

- WORK SPACE
- TEMPORARY BARRIER
- CHANNELIZING DEVICE @ 40 FT. SPACING, ITEM 619.01
- TEMPORARY SIGN, ITEM 619.01
- TYPE III BARRICADE @ 40 FT. SPACING, ITEM 619.04
- COVER EXISTING PAVEMENT MARKINGS, ITEM 619.0803
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT & RESTORATION AREA
- WARNING FLAG TREE MIN. 18"x18"

- NOTES:**
- WORK SPACE (MATERIAL STORAGE, EQUIPMENT, WORKERS, ETC.) SHALL NOT ENCRoACH WITHIN THE DEFLECTION DISTANCE OF ADJACENT TCB AND/OR GUIDE RAILING.
 - MILLED-IN AUDIBLE ROADWAY DELINEATORS REMOVED FOR WORK ZONE TRAFFIC CONTROL ACTIVITIES SHALL BE REESTABLISHED UNDER ITEM 649.01.
 - EXPOSED END OF CORRUGATED BEAM MEDIAN RAIL TO BE TEMPORARILY ANCHORED TO GROUND UNDER ITEM 606.24 - ANCHORAGE UNITS FOR CORRUGATED BEAM MEDIAN BARRIER. ANCHORAGE UNIT SHALL BE REMOVED AT THE CONCLUSION OF STAGE 3 CONSTRUCTION UNDER ITEM 606.7910 - REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING AND MEDIAN BARRIER.

CURVE W2S1

PC = STA. W2S 15+40.11
PT = STA. W2S 24+35.56
R = 15009.20'
L = 895.44'
T = 447.85'
Δ = 03°-25'-06"
emax = N.C.

CURVE W2N3

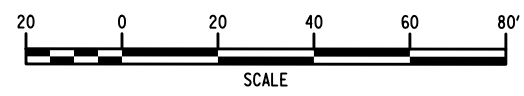
PCC = STA. W2N 17+39.59
PCC = STA. W2N 24+27.21
R = 14982.20'
L = 687.63'
T = 343.87'
Δ = 02°-37'-47"
emax = N.C.

CURVE W2N4

PCC = STA. W2N 24+27.21
PRC = STA. W2N 27+88.49
R = 2001.20'
L = 361.28'
T = 181.13'
Δ = 10°-20'-37"
emax = N.C.

CURVE W2N5

PRC = STA. W2N 27+88.49
PT = STA. W2N 29+27.23
R = 2001.20'
L = 277.04'
T = 138.74'
Δ = 07°-55'-55"
emax = N.C.



ALTERED BY: ON: AFFIX SEAL: MATTHEW WAYNE COLLINGWOOD ON: 01/24/2024



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS

DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT: REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER
 LOCATION OF PROJECT: ALBANY DIVISION, MP 81.72
 TITLE OF DRAWING: WORK ZONE TRAFFIC CONTROL PLANS - STAGE 2 WALLKILL BRIDGE (6 OF 8)

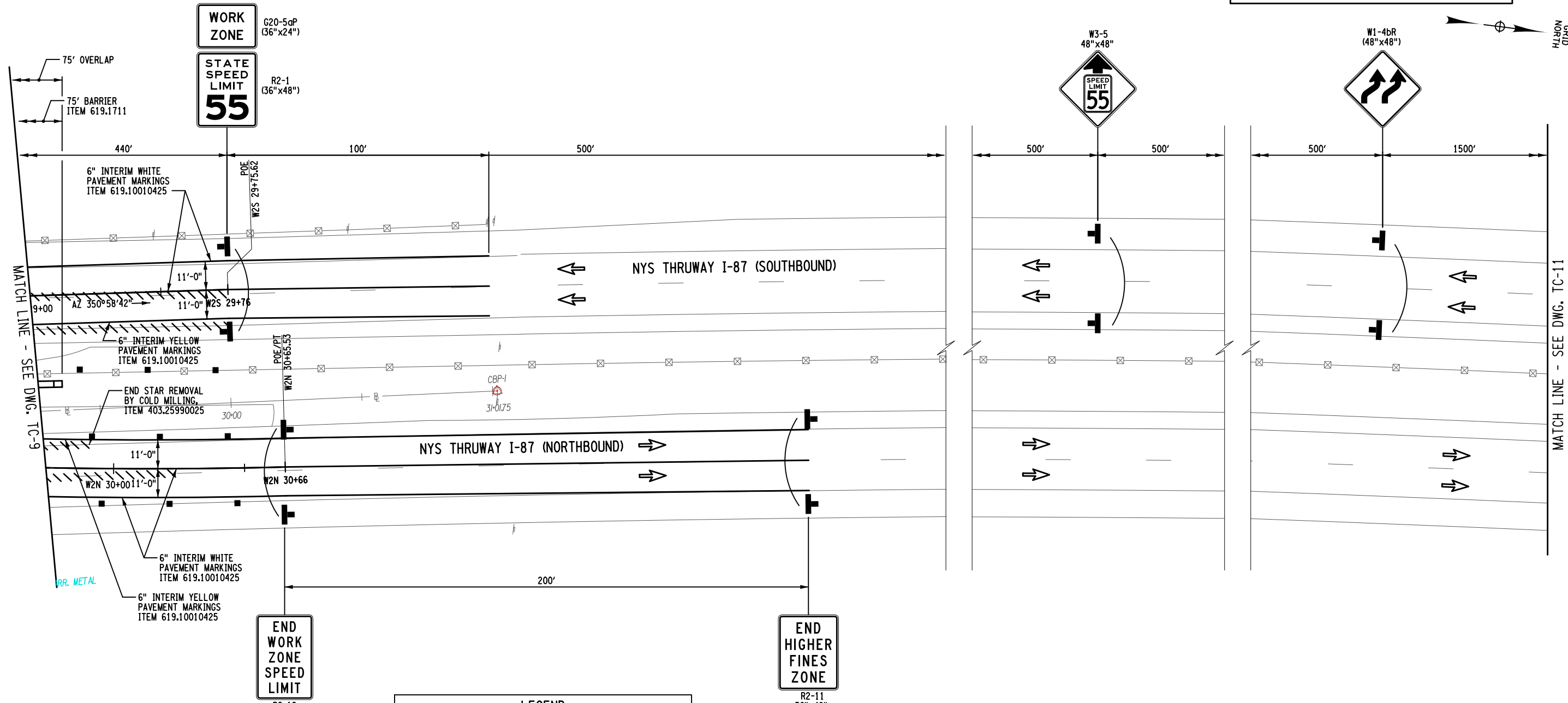
CONTRACT NUMBER: TAA 23-25B
 DATE: 01/24/2024
 DRAWING NUMBER: TC-9

FILE NAME = DATE/TIME = 24-JAN-2024 21:03 DESIGN SUPERVISOR M. COLLINGWOOD DESIGN R. JABLONSKI CHECK M. COLLINGWOOD DRAFTING T. BURTNICK CHECK M. COLLINGWOOD USER = jmtpr1-pr-svc

THIS SHEET SUPERSEDES SHEET 17
IN ITS ENTIRETY



USER = jmtpx11-pr-svc
 DATE/TIME = 24-JAN-2024 21:03
 FILE NAME =
 DESIGN SUPERVISOR M. COLLINGWOOD
 DESIGN R. JABLONSKI
 CHECK M. COLLINGWOOD
 DRAFTING T. BURTNICK
 CHECK M. COLLINGWOOD
 M. COLLINGWOOD
 T. BURTNICK
 CHECK M. COLLINGWOOD
 M. COLLINGWOOD



LEGEND

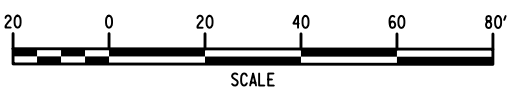
- WORK SPACE
- TEMPORARY BARRIER
- CHANNELIZING DEVICE @ 40 FT. SPACING, ITEM 619.01
- TEMPORARY SIGN, ITEM 619.01
- TYPE III BARRICADE @ 40 FT. SPACING, ITEM 619.04
- COVER EXISTING PAVEMENT MARKINGS, ITEM 619.0803
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT & RESTORATION AREA
- WARNING FLAG TREE MIN. 18"X18"

NOTES:

- WORK SPACE (MATERIAL STORAGE, EQUIPMENT, WORKERS, ETC.) SHALL NOT ENCROACH WITHIN THE DEFLECTION DISTANCE OF ADJACENT TCB AND/OR GUIDE RAILING.
- MILLED-IN AUDIBLE ROADWAY DELINEATORS REMOVED FOR WORK ZONE TRAFFIC CONTROL ACTIVITIES SHALL BE REESTABLISHED UNDER ITEM 649.01.

CURVE W2N5

PRC = STA. W2N 27+88.49
 PT = STA. W2N 29+27.23
 R = 2001.20'
 L = 277.04'
 T = 138.74'
 Δ = 07°-55'-55"
 e_{max} = N.C.



ALTERED BY:
ON:

AFFIX SEAL: MATTHEW WAYNE COLLINGWOOD
ON: 01/24/2024

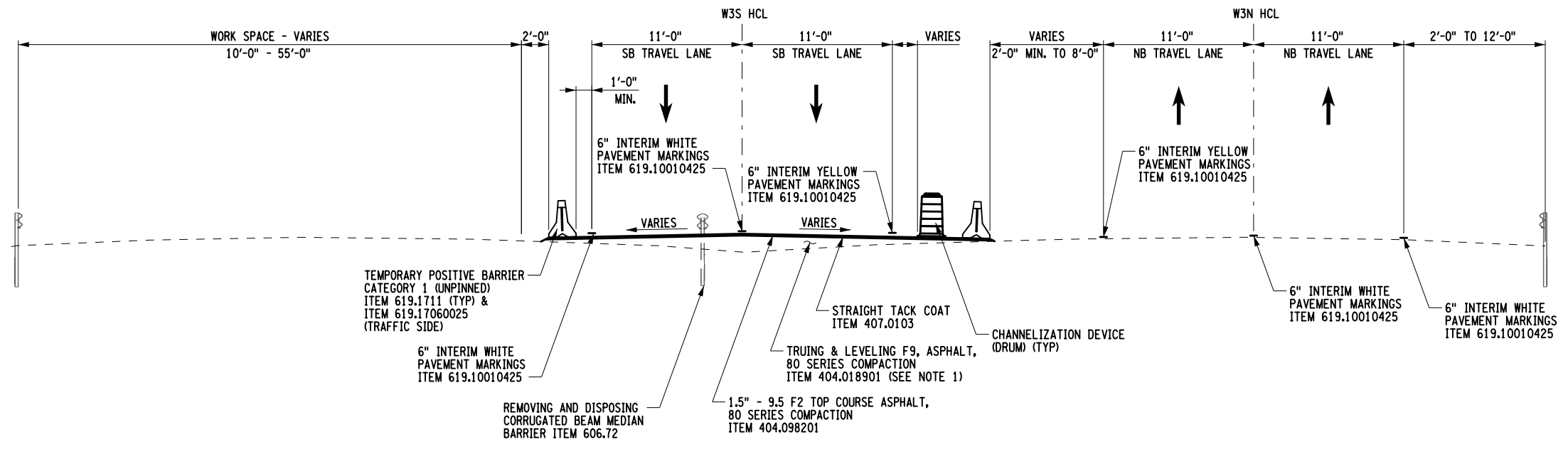
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

Thruway Authority

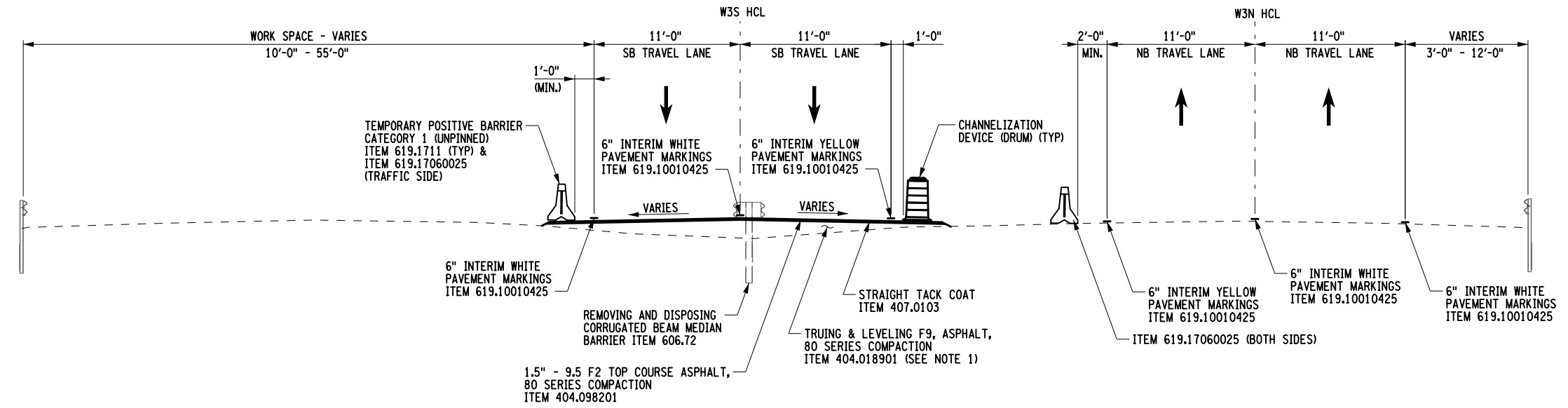
TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72	DATE: 01/24/2024
TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL PLANS - STAGE 2 WALLKILL BRIDGE (7 OF 8)	DRAWING NUMBER: TC-10

THIS SHEET SUPERSEDES SHEET 19
IN ITS ENTIRETY



STAGE 3 CROSSOVER SECTION

NTS
STA W3S 10+00 TO STA W3S 15+54
STA W3N 10+00 TO STA W3N 15+64



STAGE 3 CROSSOVER SECTION

NTS
STA W3S 23+72 TO STA W3S 29+31
STA W3N 23+84 TO STA W3N 29+24

NOTE:
1. REFER TO TC-17 AND TC-19 FOR EXISTING AND PROPOSED ELEVATIONS FOR TEMPORARY MEDIAN PAVEMENT.

FILE NAME =
DESIGN SUPERVISOR M. COLLINGWOOD
DESIGN R. JABLONSKI
DATE/TIME = 24-JAN-2024 2:40:03
USER = jmtax1-pr-svc
DRAFTING T. BURTNICK
CHECK M. COLLINGWOOD
CHECK M. COLLINGWOOD

ALTERED BY:
ON:

AFFIX SEAL: MATTHEW WAYNE COLLINGWOOD
ON: 01/24/2024



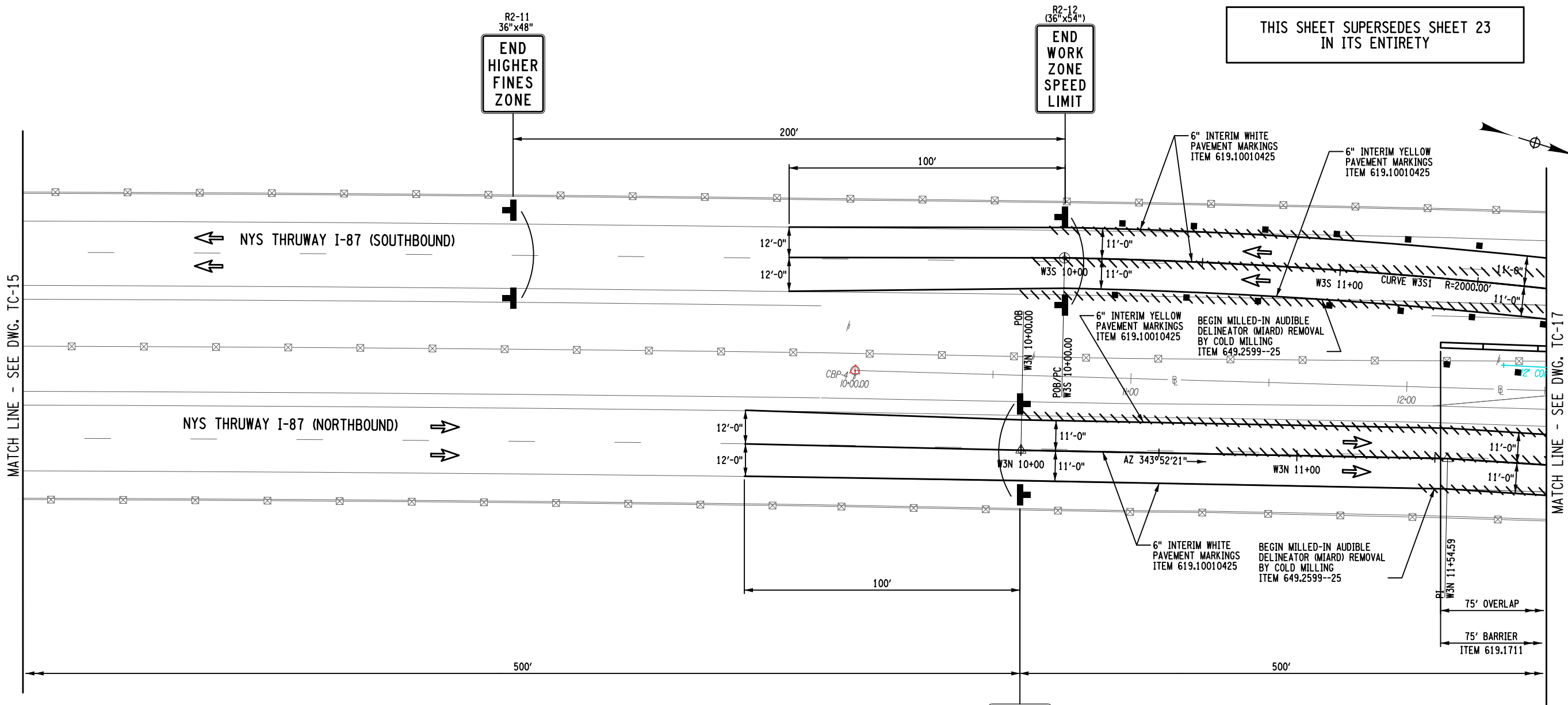
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72	DATE: 01/24/2024
TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL TYPICAL SECTIONS - STAGE 3	DRAWING NUMBER: TC-12

THIS SHEET SUPERSEDES SHEET 23
IN ITS ENTIRETY



WORK ZONE TRAFFIC CONTROL PLAN - STAGE 3

LEGEND

- WORK SPACE
- TEMPORARY BARRIER
- CHANNELIZING DEVICE @ 40 FT. SPACING, ITEM 619.01
- TEMPORARY SIGN, ITEM 619.01
- TYPE III BARRICADE @ 40 FT. SPACING, ITEM 619.04
- COVER EXISTING PAVEMENT MARKINGS, ITEM 619.0803
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT & RESTORATION AREA
- WARNING FLAG TREE MIN. 18"x18"

NOTES:

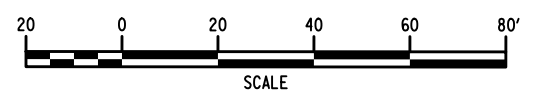
- WORK SPACE (MATERIAL STORAGE, EQUIPMENT, WORKERS, ETC.) SHALL NOT ENCROACH WITHIN THE DEFLECTION DISTANCE OF ADJACENT TCB AND/OR GUIDE RAILING.
- MILLED-IN AUDIBLE ROADWAY DELINEATORS REMOVED FOR WORK ZONE TRAFFIC CONTROL ACTIVITIES SHALL BE REESTABLISHED UNDER ITEM 649.01.

WORK ZONE
G20-5aP
(36"x24")

STATE SPEED LIMIT
R2-1
(36"x48")
55

CURVE W3S1

PC = STA. W3S 10+00.00
 PRC = STA. W3S 13+62.68
 R = 2000.00'
 L = 362.68'
 T = 181.84'
 Δ = 10°-23'-24"
 emax = N.C.



USER = jmtpx11-pr-svc
 DATE/TIME = 24-JAN-2024 2:04
 FILE NAME =

M. COLLINGWOOD
 T. BURTNICK
 DRAFTING
 M. COLLINGWOOD
 R. JABLONSKI
 DESIGN
 M. COLLINGWOOD
 DESIGN SUPERVISOR

CHECK

DRAFTING

CHECK

DESIGN

ALTERED BY:
ON:

AFFIX SEAL: MATTHEW WAYNE COLLINGWOOD
ON: 01/24/2024



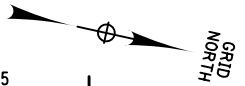
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

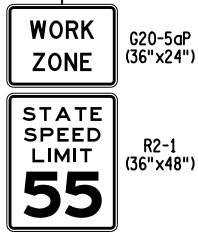
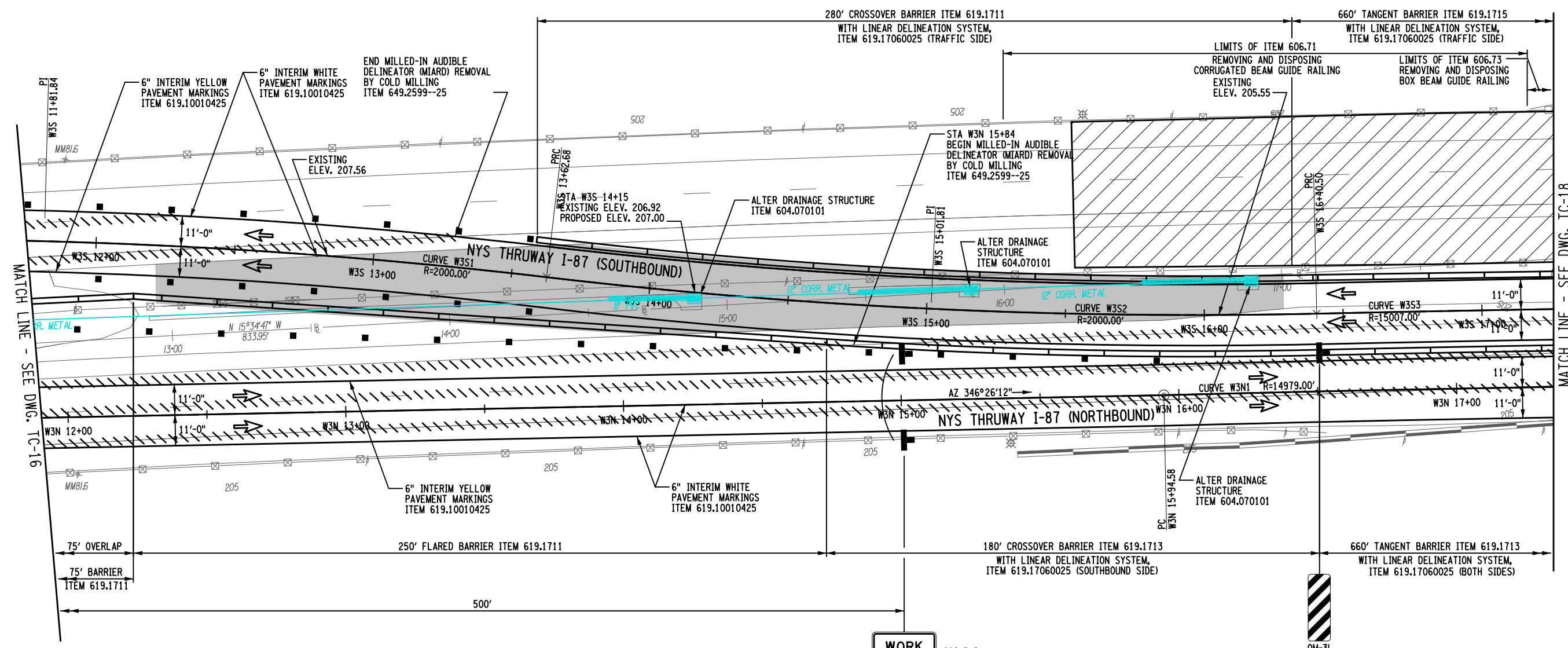


TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72	DATE: 01/24/2024
TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL PLANS - STAGE 3 WALLKILL BRIDGE (3 OF 8)	DRAWING NUMBER: TC-16

THIS SHEET SUPERSEDES SHEET 24
IN ITS ENTIRETY



USER = jmtpx11-pr-svc
 DATE/TIME = 24-JAN-2024 21:04
 FILE NAME =
 DESIGN SUPERVISOR M. COLLINGWOOD
 DESIGN R. JABLONSKI
 CHECK M. COLLINGWOOD
 DRAFTING T. BURTNICK
 CHECK M. COLLINGWOOD
 M. COLLINGWOOD
 T. BURTNICK
 CHECK M. COLLINGWOOD

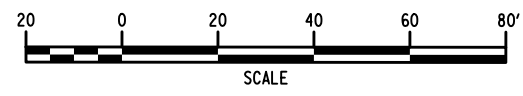


LEGEND	
	WORK SPACE
	TEMPORARY BARRIER
	CHANNELIZING DEVICE @ 40 FT. SPACING, ITEM 619.01
	TEMPORARY SIGN, ITEM 619.01
	TYPE III BARRICADE @ 40 FT. SPACING, ITEM 619.04
	COVER EXISTING PAVEMENT MARKINGS, ITEM 619.0803
	DIRECTION OF TRAFFIC
	TEMPORARY PAVEMENT & RESTORATION AREA
	WARNING FLAG TREE MIN. 18\"/>

WORK ZONE TRAFFIC CONTROL PLAN - STAGE 3

- NOTES:**
1. WORK SPACE (MATERIAL STORAGE, EQUIPMENT, WORKERS, ETC.) SHALL NOT ENCR OACH WITHIN THE DEFLECTION DISTANCE OF ADJACENT TCB AND/OR GUIDE RAILING.
 2. MILLED-IN AUDIBLE ROADWAY DELINEATORS REMOVED FOR WORK ZONE TRAFFIC CONTROL ACTIVITIES SHALL BE REESTABLISHED UNDER ITEM 649.01.

CURVE W3S1	CURVE W3S2	CURVE W3S3	CURVE W3N1
PC = STA. W3S 10+00.00	PRC = STA. W3S 13+62.68	PRC = STA. W3S 16+40.50	PC = STA. W3N 15+94.58
PRC = STA. W3S 13+62.68	PRC = STA. W3S 16+40.50	PRC = STA. W3S 23+04.19	PT = STA. W3N 23+84.13
R = 2000.00'	R = 2000.00'	R = 15007.00'	R = 14979.00'
L = 362.68'	L = 277.82'	L = 663.69'	L = 789.56'
T = 181.84'	T = 139.13'	T = 331.90'	T = 394.87'
$\Delta = 10^{\circ}-23'-24''$	$\Delta = 07^{\circ}-57'-32''$	$\Delta = 02^{\circ}-32'-02''$	$\Delta = 03^{\circ}-01'-13''$
emax = N.C.	emax = N.C.	emax = N.C.	emax = N.C.



ALTERED BY:
ON:

AFFIX SEAL: MATTHEW WAYNE COLLINGWOOD
ON: 01/24/2024

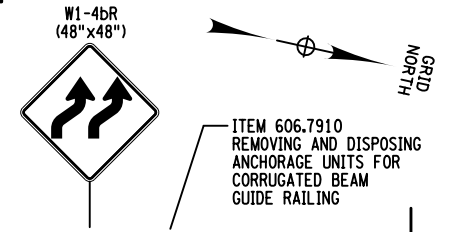
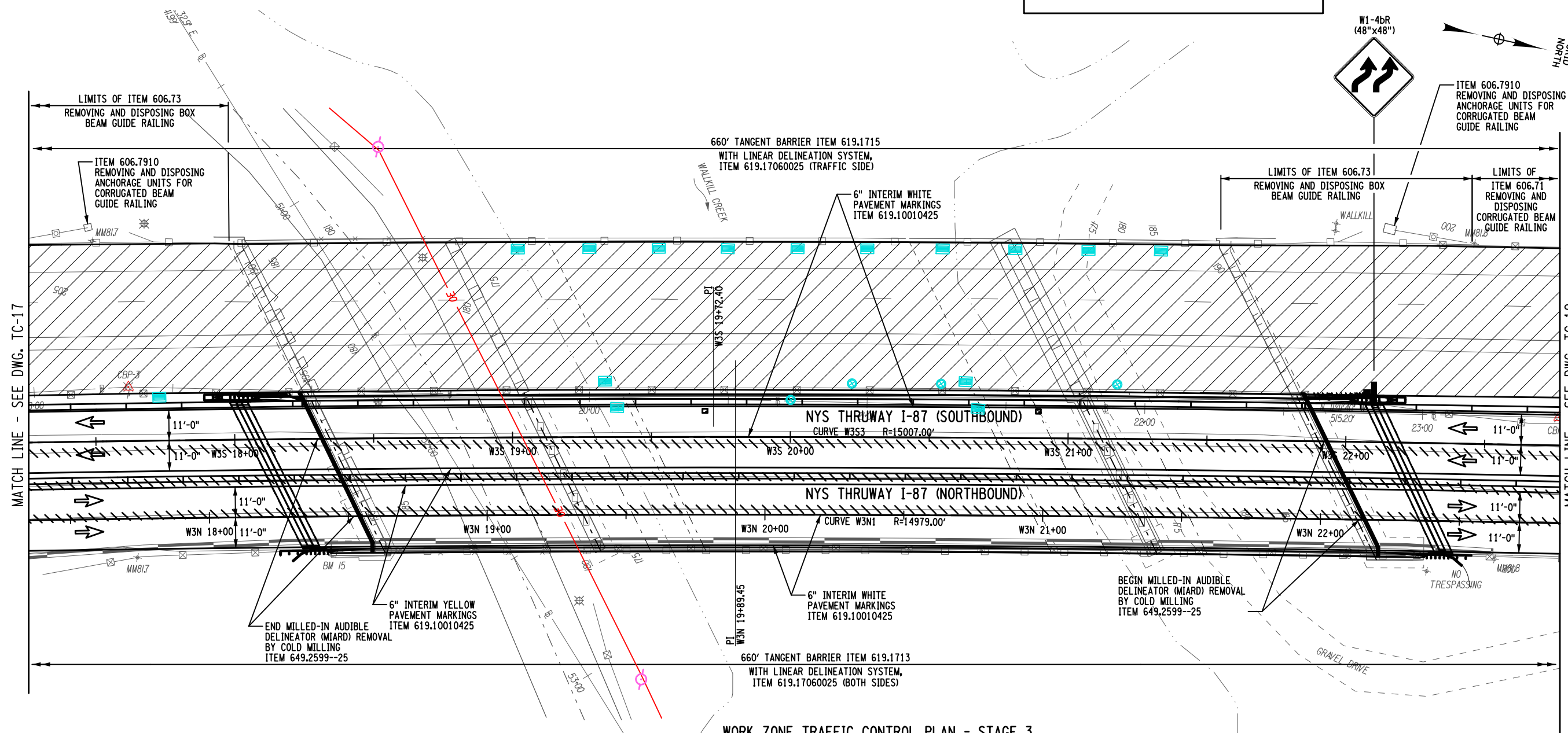
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER IN ANY WAY IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72	DATE: 01/24/2024
TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL PLANS - STAGE 3 WALLKILL BRIDGE (4 OF 8)	DRAWING NUMBER: TC-17

THIS SHEET SUPERSEDES SHEET 25
IN ITS ENTIRETY



MATCH LINE - SEE DWG. TC-17

MATCH LINE - SEE DWG. TC-19

WORK ZONE TRAFFIC CONTROL PLAN - STAGE 3

LEGEND

- WORK SPACE
- TEMPORARY BARRIER
- CHANNELIZING DEVICE @ 40 FT. SPACING, ITEM 619.01
- TEMPORARY SIGN, ITEM 619.01
- TYPE III BARRICADE @ 40 FT. SPACING, ITEM 619.04
- COVER EXISTING PAVEMENT MARKINGS, ITEM 619.0803
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT & RESTORATION AREA
- WARNING FLAG TREE MIN. 18"X18"

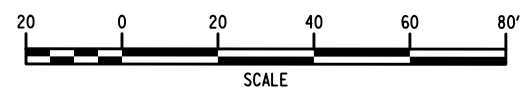
- NOTES:**
1. WORK SPACE (MATERIAL STORAGE, EQUIPMENT, WORKERS, ETC.) SHALL NOT ENCROACH WITHIN THE DEFLECTION DISTANCE OF ADJACENT TCB AND/OR GUIDE RAILING.
 2. MILLED-IN AUDIBLE ROADWAY DELINEATORS REMOVED FOR WORK ZONE TRAFFIC CONTROL ACTIVITIES SHALL BE REESTABLISHED UNDER ITEM 649.01.

CURVE W3S3

PRC = STA. W3S 16+40.50
PRC = STA. W3S 23+04.19
R = 15007.00'
L = 663.69'
T = 331.90'
Δ = 02°-32'-02"
emax = N.C.

CURVE W3N1

PC = STA. W3N 15+94.58
PT = STA. W3N 23+84.13
R = 14979.00'
L = 789.56'
T = 394.87'
Δ = 03°-01'-13"
emax = N.C.



ALTERED BY: ON:	AFFIX SEAL: MATTHEW WAYNE COLLINGWOOD ON: 01/24/2024

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER IN ANY WAY IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



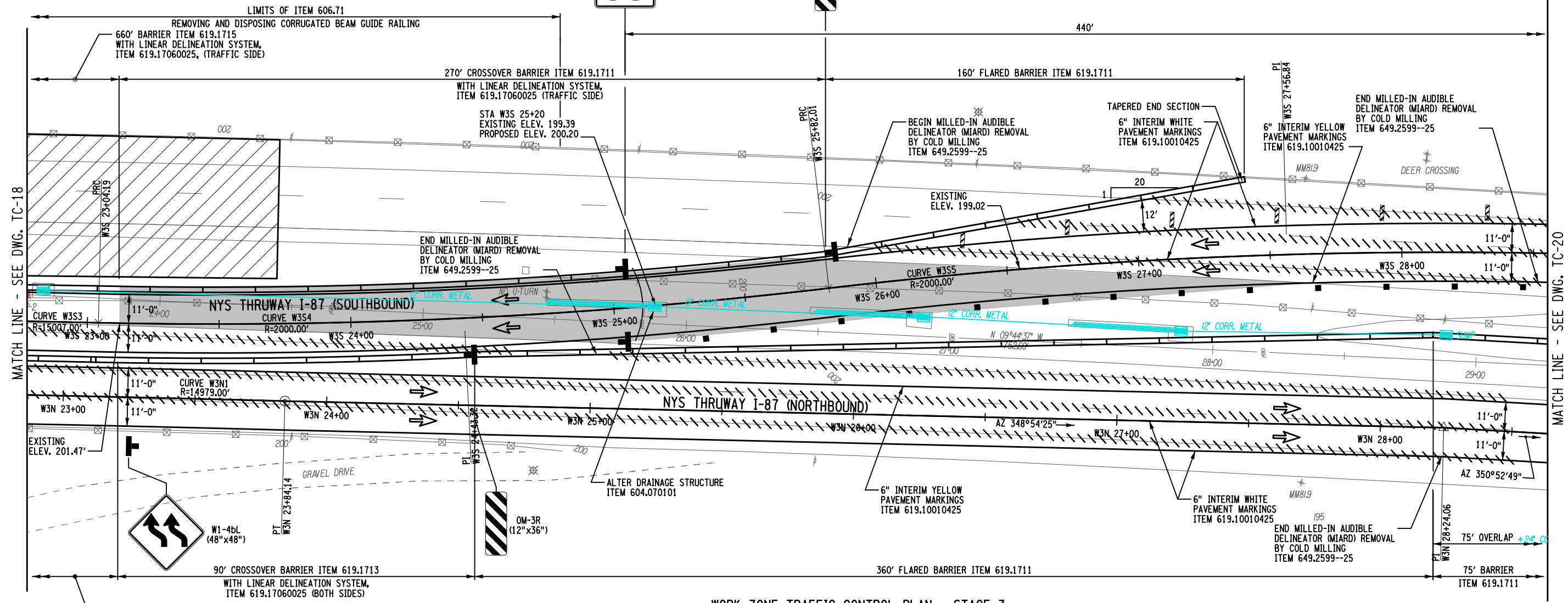
TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72	DATE: 01/24/2024
TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL PLANS - STAGE 3 WALLKILL BRIDGE (5 OF 8)	DRAWING NUMBER: TC-18

USER = jmtpx11-pr-svc
 DATE/TIME = 24-JAN-2024 2:04
 FILE NAME =
 M. COLLINGWOOD
 T. BURTNICK
 DRAFTING
 CHECK
 R. JABLONSKI
 DESIGN
 M. COLLINGWOOD
 DESIGN SUPERVISOR

THIS SHEET SUPERSEDES SHEET 26
IN ITS ENTIRETY

WORK ZONE
G20-5dP
(36"x24")
STATE SPEED LIMIT
R2-1
(36"x48")
55

OM-3R
(12"x36")



WORK ZONE TRAFFIC CONTROL PLAN - STAGE 3

LEGEND

- WORK SPACE
- TEMPORARY BARRIER
- CHANNELIZING DEVICE @ 40 FT. SPACING, ITEM 619.01
- TEMPORARY SIGN, ITEM 619.01
- TYPE III BARRICADE @ 40 FT. SPACING, ITEM 619.04
- COVER EXISTING PAVEMENT MARKINGS, ITEM 619.0803
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT & RESTORATION AREA
- WARNING FLAG TREE MIN. 18"x18"

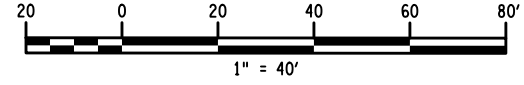
CURVE W3S3
 PRC = STA. W3S 16+40.50
 PRC = STA. W3S 23+04.19
 R = 15007.00'
 L = 663.69'
 T = 331.90'
 Δ = 02°-32'-02"
 emax = N.C.

CURVE W3S4
 PRC = STA. W3S 23+04.19
 PRC = STA. W3S 25+82.01
 R = 2000.00'
 L = 277.82'
 T = 139.13'
 Δ = 07°-57'-32"
 emax = N.C.

CURVE W3S5
 PRC = STA. W3S 25+82.01
 PT = STA. W3S 29+30.79
 R = 2000.00'
 L = 348.79'
 T = 174.84'
 Δ = 09°-59'-31"
 emax = N.C.

CURVE W3N1
 PC = STA. W3N 15+94.58
 PT = STA. W3N 23+84.13
 R = 14979.00'
 L = 789.56'
 T = 394.87'
 Δ = 03°-01'-13"
 emax = N.C.

NOTES:
 1. WORK SPACE (MATERIAL STORAGE, EQUIPMENT, WORKERS, ETC.) SHALL NOT ENCROACH WITHIN THE DEFLECTION DISTANCE OF ADJACENT TCB AND/OR GUIDE RAILING.
 2. MILLED-IN AUDIBLE ROADWAY DELINEATORS REMOVED FOR WORK ZONE TRAFFIC CONTROL ACTIVITIES SHALL BE REESTABLISHED UNDER ITEM 649.01.



ALTERED BY:
ON:

AFFIX SEAL: MATTHEW WAYNE COLLINGWOOD
ON: 01/24/2024



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION ALTERED BY FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT
REHABILITATION OF I-87 BRIDGES OVER WALKKILL RIVER
LOCATION OF PROJECT
ALBANY DIVISION
MP 81.72
TITLE OF DRAWING
WORK ZONE TRAFFIC CONTROL PLANS - STAGE 3
WALKKILL BRIDGE (6 OF 8)

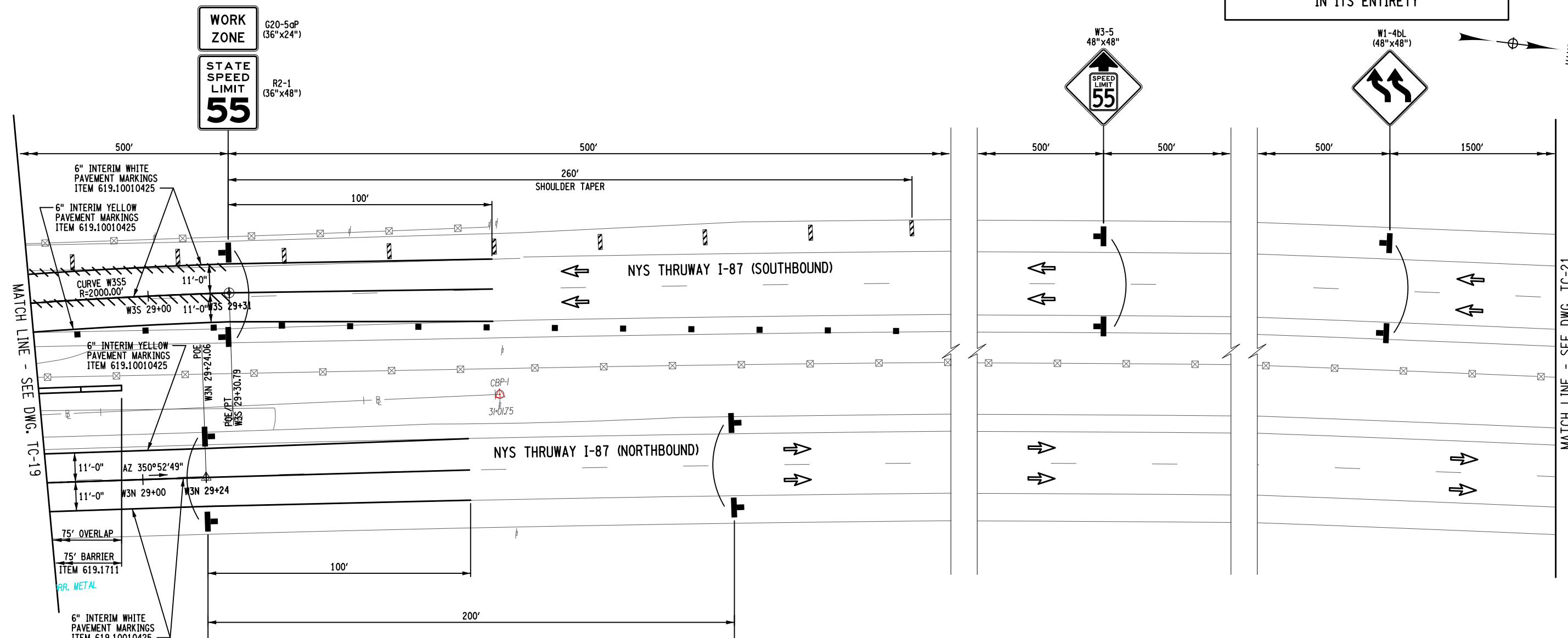
CONTRACT NUMBER:
TAA 23-25B
DATE:
01/24/2024
DRAWING NUMBER:
TC-19

M. COLLINGWOOD
 T. BURTNICK
 M. COLLINGWOOD
 R. JABLONSKI
 M. COLLINGWOOD
 DATE/TIME = 24-JAN-2024 2:48:03
 FILE NAME =

THIS SHEET SUPERSEDES SHEET 27
IN ITS ENTIRETY

USER = jmtpx11-pr-svc
DATE/TIME = 24-JAN-2024 21:03
FILE NAME =
M. COLLINGWOOD
R. JABLONSKI
M. COLLINGWOOD
M. COLLINGWOOD

CHECK
T. BURTNICK
DRAFTING
CHECK
DESIGN
DESIGN SUPERVISOR



LEGEND

- WORK SPACE
- TEMPORARY BARRIER
- CHANNELIZING DEVICE @ 40 FT. SPACING, ITEM 619.01
- TEMPORARY SIGN, ITEM 619.01
- TYPE III BARRICADE @ 40 FT. SPACING, ITEM 619.04
- COVER EXISTING PAVEMENT MARKINGS, ITEM 619.0803
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT & RESTORATION AREA
- WARNING FLAG TREE MIN. 18"X18"

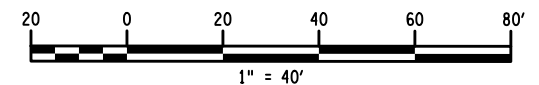
R2-11
36"x48"

WORK ZONE TRAFFIC CONTROL PLAN - STAGE 3

- NOTES:**
- WORK SPACE (MATERIAL STORAGE, EQUIPMENT, WORKERS, ETC.) SHALL NOT ENCROACH WITHIN THE DEFLECTION DISTANCE OF ADJACENT TCB AND/OR GUIDE RAILING.
 - MILLED-IN AUDIBLE ROADWAY DELINEATORS REMOVED FOR WORK ZONE TRAFFIC CONTROL ACTIVITIES SHALL BE REESTABLISHED UNDER ITEM 649.01.

CURVE W355

PRC = STA. W3S 25+82.01
PT = STA. W3S 29+30.79
R = 2000.00'
L = 348.79'
T = 174.84'
Δ = 09°-59'-31"
emax = N.C.



ALTERED BY:
ON:

AFFIX SEAL: MATTHEW WAYNE COLLINGWOOD
ON: 01/24/2024

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



Thruway Authority



TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72	DATE: 01/24/2024
TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL PLANS - STAGE 3 WALLKILL BRIDGE (7 OF 8)	DRAWING NUMBER: TC-20

22/56

THIS SHEET SUPERSEDES SHEET 48
IN ITS ENTIRETY

INDEX OF DRAWINGS

Table with 3 columns: SHEET NUMBER, DESCRIPTION, DRAWING NUMBER. Lists drawings 42 through 90 including general plans, sections, and reinforcement details.

INDEX OF DRAWINGS

Table with 3 columns: SHEET NUMBER, DESCRIPTION, DRAWING NUMBER. Lists drawings 91 through 101 including joint details, barrier details, and miscellaneous details.

ESTIMATE OF QUANTITIES

Table with 5 columns: ITEM NO., DESCRIPTION, UNIT, QTY, FINAL QTY. Lists 100+ items for removing structures, excavation, concrete, steel, and other materials.

USER = BENTLEYHOSTING_jmptw11res01\$
DATE/TIME = 1/24/2024
R. HENDERSON
DESIGN SUPERVISOR

CHECK

DRAFTING

CHECK

DESIGN

DESIGN SUPERVISOR

ALTERED BY: ON: AFFIX SEAL: RYAN DOUGLAS HENDERSON ON: 01/24/2024



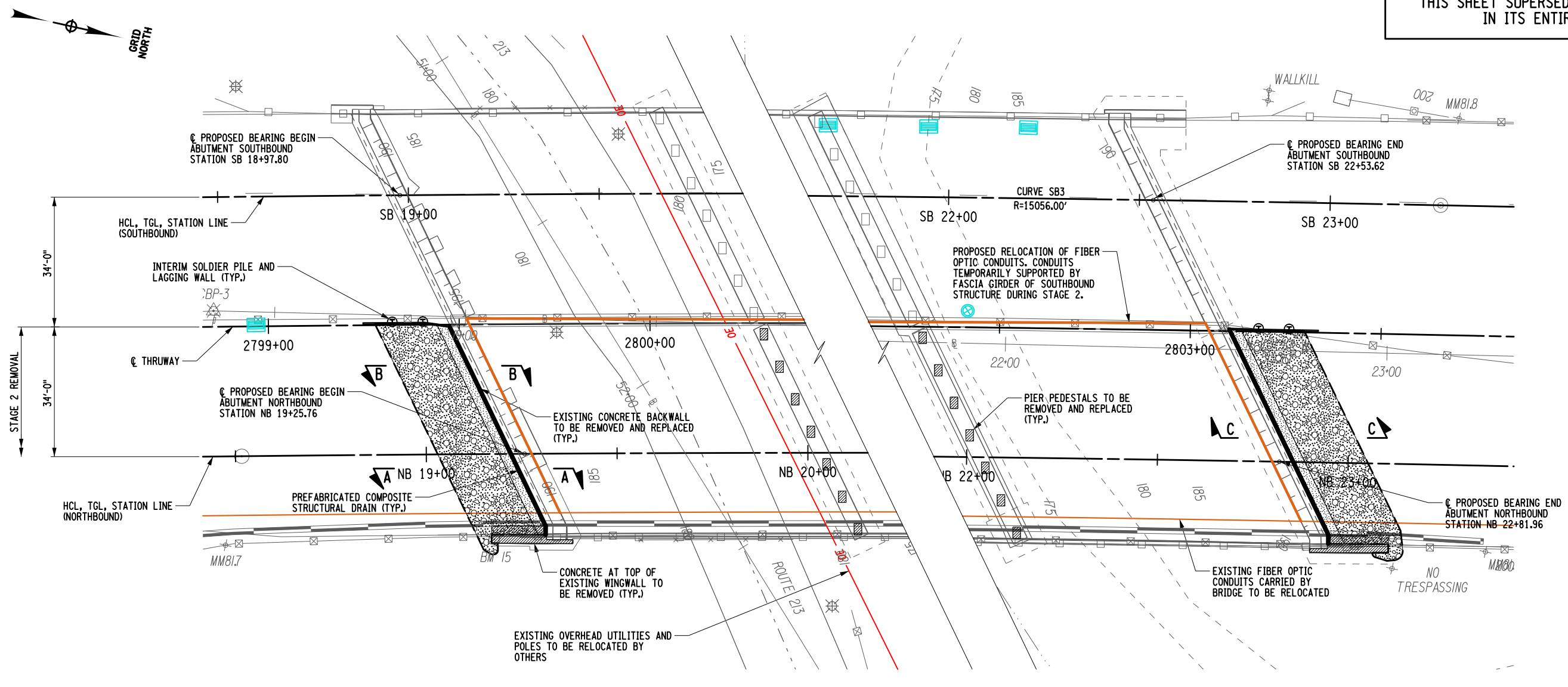
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Table with 4 columns: DATE, DESCRIPTION, BY, SYM. Revisions table.

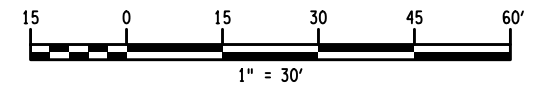


Table with 2 columns: TITLE OF PROJECT, LOCATION OF PROJECT, TITLE OF DRAWING, CONTRACT NUMBER, DATE, DRAWING NUMBER.

THIS SHEET SUPERSEDES SHEET 50
IN ITS ENTIRETY



STAGE 2 - EXCAVATION AND EMBANKMENT PLAN



- INTERIM SOLDIER PILE AND LAGGING WALL ITEMS:
- ITEM 552.2001 - HOLES IN EARTH FOR SOLDIER PILE AND LAGGING WALL (BEGIN, INSTALLED IN STAGE 2)
 - ITEM 552.2002 - HOLES IN EARTH FOR SOLDIER PILE AND LAGGING WALL (END, INSTALLED IN STAGE 2)
 - ITEM 552.2101 - ROCK SOCKETS FOR SOLDIER PILE AND LAGGING WALL (BEGIN, INSTALLED IN STAGE 2)
 - ITEM 552.2102 - ROCK SOCKETS FOR SOLDIER PILE AND LAGGING WALL (END, INSTALLED IN STAGE 2)
 - ITEM 552.2201 - SOLDIER PILES FOR SOLDIER PILE AND LAGGING WALL (BEGIN, INSTALLED IN STAGE 2)
 - ITEM 552.2202 - SOLDIER PILES FOR SOLDIER PILE AND LAGGING WALL (END, INSTALLED IN STAGE 2)
 - ITEM 552.230201 - UNTREATED WOOD LAGGING FOR SOLDIER PILE AND LAGGING WALL (BEGIN)
 - ITEM 552.230202 - UNTREATED WOOD LAGGING FOR SOLDIER PILE AND LAGGING WALL (END)
 - ITEM 551.13 FURNISHING EQUIPMENT FOR DRIVING PILES

LEGEND

- EXISTING GROUND SURFACE
- SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
- EMBANKMENT IN PLACE (ITEM 203.03)
- PREFABRICATED COMPOSITE STRUCTURAL DRAIN (ITEM 207.26)
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES LIMIT LINES FOR STRUCTURE EXCAVATION. (ITEM 206.01)
- REMOVAL OF STRUCTURAL CONCRETE (580.01)

NOTES

1. FOR INTERIM SOLDIER PILING AND LAGGING WALL DETAILS, SEE DRAWINGS ST-12 THROUGH ST-13.
2. FOR REMOVAL DETAILS, SEE DRAWING ST-14.
3. FOR STAGE 3 EXCAVATION AND EMBANKMENT PLANS AND DETAILS, SEE DRAWINGS ST-10 THROUGH ST-11.
4. ALL PLACEMENTS OF SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE COMPACTED TO 95 PERCENT STANDARD PROCTOR MAXIMUM DENSITY.
5. HIGHWAY EMBANKMENT MATERIAL ITEM 203.03 AND SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE PLACED SIMULTANEOUSLY, IN CONTACT, ON BOTH SIDES OF THE VERTICAL LINE.
6. FOR FIBER OPTIC CONDUIT RELOCATION DETAILS, SEE DRAWING ST-59

CHECK
 DRAFTING
 CHECK
 DESIGN
 R. HENDERSON
 DESIGN SUPERVISOR
 DATE/TIME = 1/24/2024
 USER = BENTLEYHOSTING\jmtpl\lres01\$

ALTERED BY: ON: AFFIX SEAL: RYAN DOUGLAS HENDERSON ON: 01/24/2024



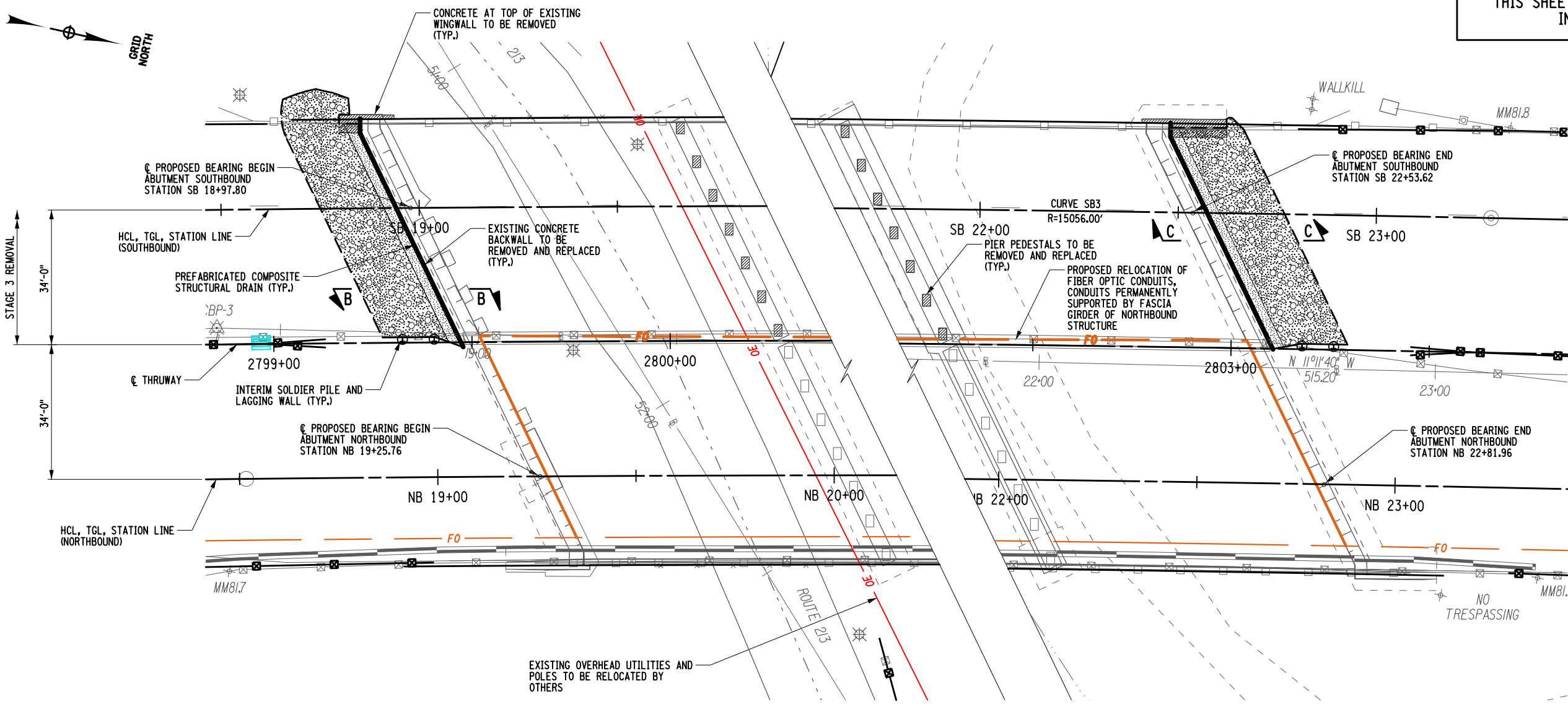
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

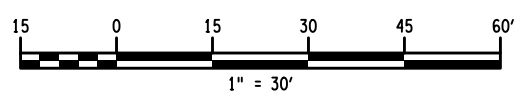


TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING EXCAVATION AND EMBANKMENT PLAN STAGE 2	DRAWING NUMBER: ST-09

THIS SHEET SUPERSEDES SHEET 51
IN ITS ENTIRETY



STAGE 3 - EXCAVATION AND EMBANKMENT PLAN



- INTERIM SOLDIER PILE AND LAGGING WALL ITEMS:
- ITEM 552.2001 - HOLES IN EARTH FOR SOLDIER PILE AND LAGGING WALL (BEGIN, INSTALLED IN STAGE 2)
 - ITEM 552.2002 - HOLES IN EARTH FOR SOLDIER PILE AND LAGGING WALL (END, INSTALLED IN STAGE 2)
 - ITEM 552.2101 - ROCK SOCKETS FOR SOLDIER PILE AND LAGGING WALL (BEGIN, INSTALLED IN STAGE 2)
 - ITEM 552.2102 - ROCK SOCKETS FOR SOLDIER PILE AND LAGGING WALL (END, INSTALLED IN STAGE 2)
 - ITEM 552.2201 - SOLDIER PILES FOR SOLDIER PILE AND LAGGING WALL (BEGIN, INSTALLED IN STAGE 2)
 - ITEM 552.2202 - SOLDIER PILES FOR SOLDIER PILE AND LAGGING WALL (END, INSTALLED IN STAGE 2)
 - ITEM 552.230201 - UNTREATED WOOD LAGGING FOR SOLDIER PILE AND LAGGING WALL (BEGIN)
 - ITEM 552.230202 - UNTREATED WOOD LAGGING FOR SOLDIER PILE AND LAGGING WALL (END)
 - ITEM 551.13 FURNISHING EQUIPMENT FOR DRIVING PILES

LEGEND

- EXISTING GROUND SURFACE
- SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
- EMBANKMENT IN PLACE (ITEM 203.03)
- PREFABRICATED COMPOSITE STRUCTURAL DRAIN (ITEM 207.26)
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES LIMIT LINES FOR STRUCTURE EXCAVATION. (ITEM 206.01)
- REMOVAL OF STRUCTURAL CONCRETE (580.01)

NOTES

1. FOR INTERIM SOLDIER PILING AND LAGGING WALL DETAILS, SEE DRAWINGS ST-12 THROUGH ST-13.
2. FOR REMOVAL DETAILS, SEE DRAWING ST-14.
3. FOR STAGE 2 EXCAVATION AND EMBANKMENT PLANS AND DETAILS, SEE DRAWINGS ST-09 AND ST-10.
4. ALL PLACEMENTS OF SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE COMPACTED TO 95 PERCENT STANDARD PROCTOR MAXIMUM DENSITY.
5. HIGHWAY EMBANKMENT MATERIAL ITEM 203.03 AND SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE PLACED SIMULTANEOUSLY, IN CONTACT, ON BOTH SIDES OF THE VERTICAL LINE.
6. FOR FIBER OPTIC CONDUIT RELOCATION DETAILS, SEE DRAWING ST-59

ALTERED BY: ON: AFFIX SEAL: RYAN DOUGLAS HENDERSON ON: 01/24/2024



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING EXCAVATION AND EMBANKMENT PLAN STAGE 3	DRAWING NUMBER: ST-10

USER = BENTLEYHOSTING\jmplw11cs01\$

DATE/TIME = 1/24/2024

R. HENDERSON

DESIGN SUPERVISOR

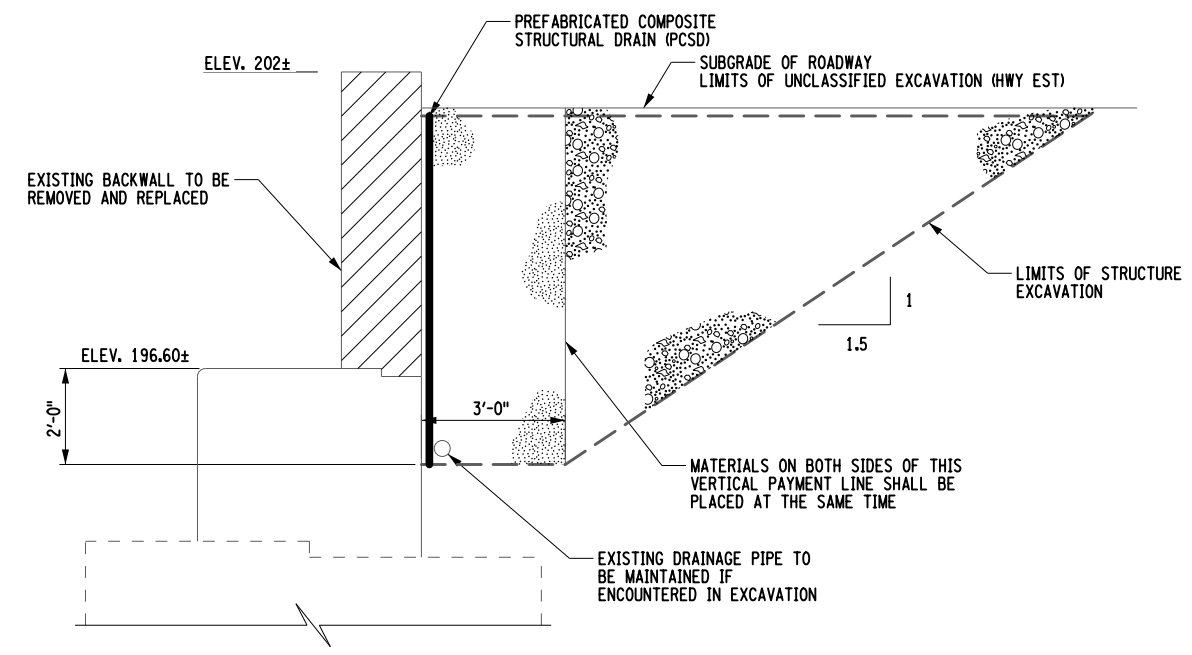
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DRAFTING

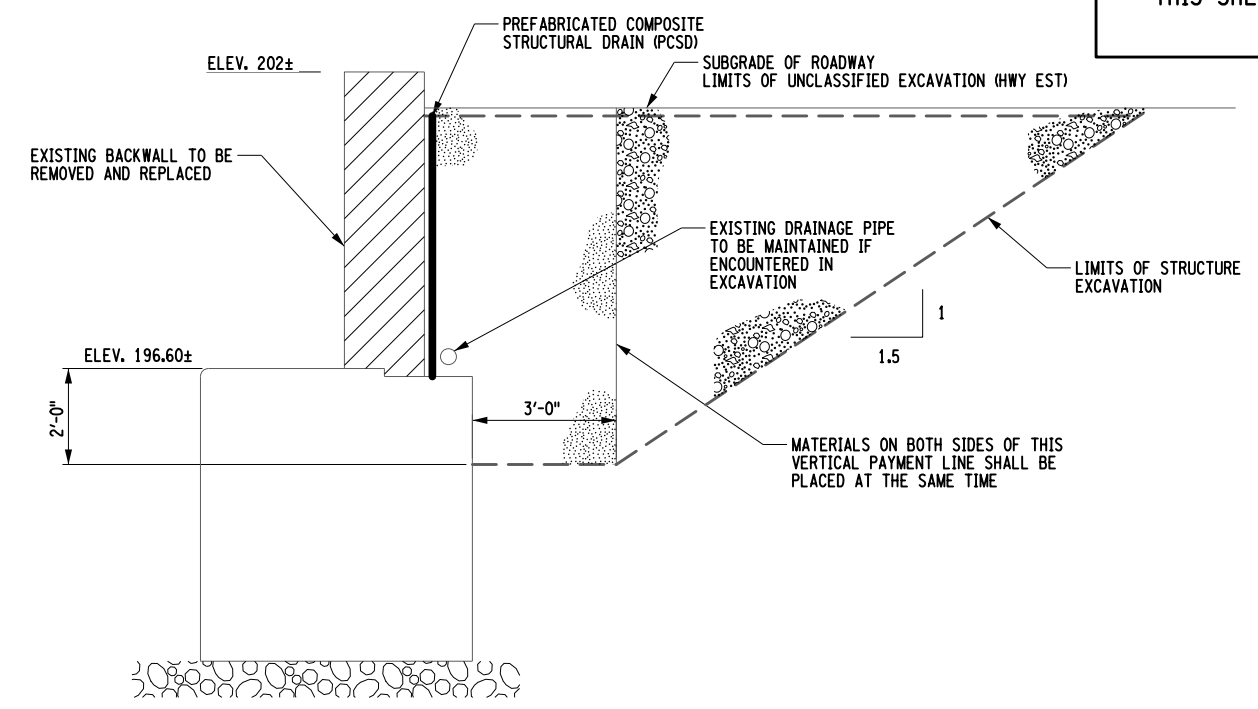
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DESIGN

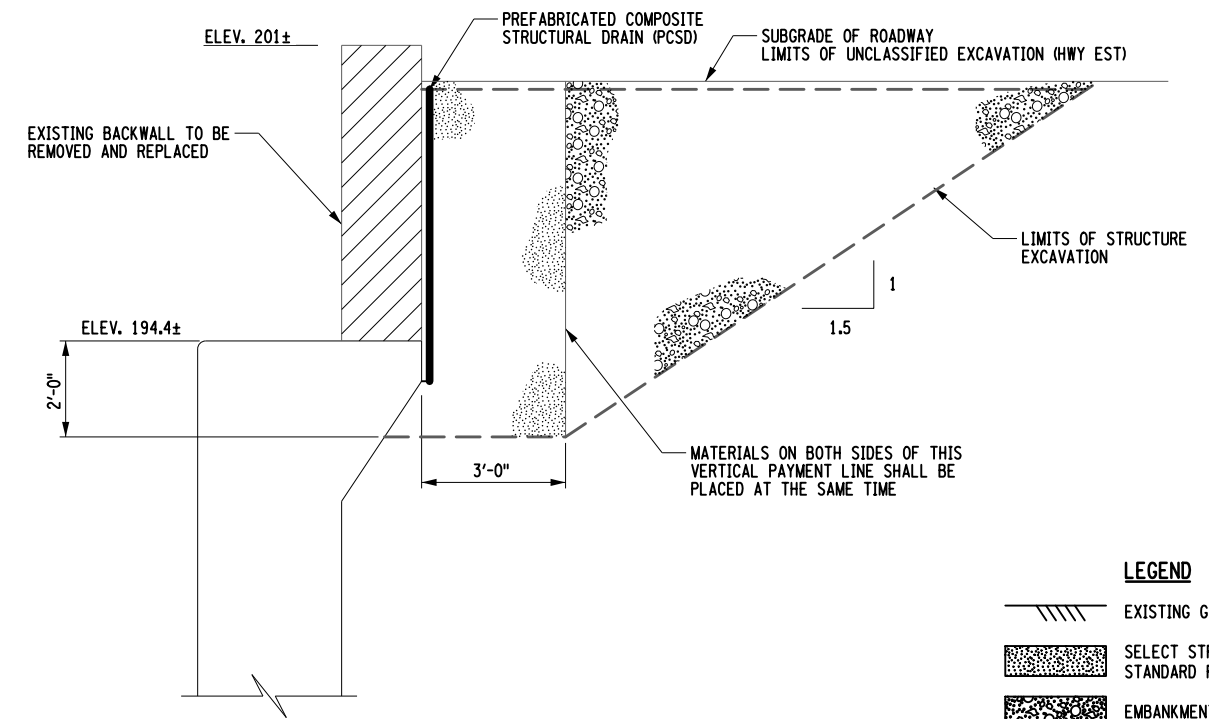
THIS SHEET SUPERSEDES SHEET 52
IN ITS ENTIRETY



A
ST-9 TYPICAL BEGIN ABUTMENT SECTION
NOT TO SCALE



B
ST-9 **B**
ST-10 TYPICAL BEGIN ABUTMENT SECTION
NOT TO SCALE



C
ST-9 **C**
ST-10 TYPICAL END ABUTMENT SECTION
NOT TO SCALE

- LEGEND**
- EXISTING GROUND SURFACE
 - SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
 - EMBANKMENT IN PLACE (ITEM 203.03)
 - PREFABRICATED COMPOSITE STRUCTURAL DRAIN (ITEM 207.26)
 - AREA ENCLOSED WITHIN THESE LINES DESIGNATES LIMIT LINES FOR STRUCTURE EXCAVATION. (ITEM 206.01)
 - REMOVAL OF STRUCTURAL CONCRETE (580.01)

- NOTES:**
1. SEE ST-09 AND ST-10 FOR PLAN VIEWS OF EARTHWORK AND ADDITIONAL NOTES.
 2. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONS.

USER = BENTLEYHOSTING\jmtpl\lres01\$
 DATE/TIME = 1/24/2024 11:00:00
 DESIGN SUPERVISOR = R. HENDERSON
 DESIGN = DESIGN
 CHECK = CHECK
 DRAFTING = DRAFTING
 CHECK = CHECK

ALTERED BY:
ON:

AFFIX SEAL: RYAN DOUGLAS HENDERSON
ON: 01/24/2024

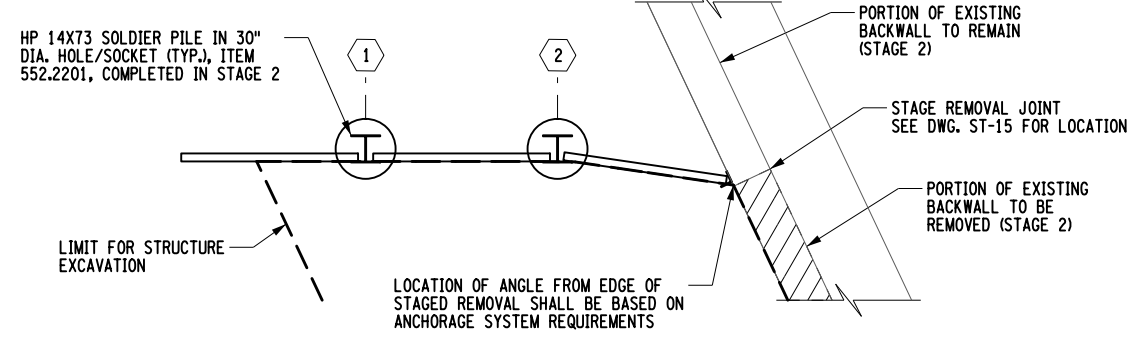
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



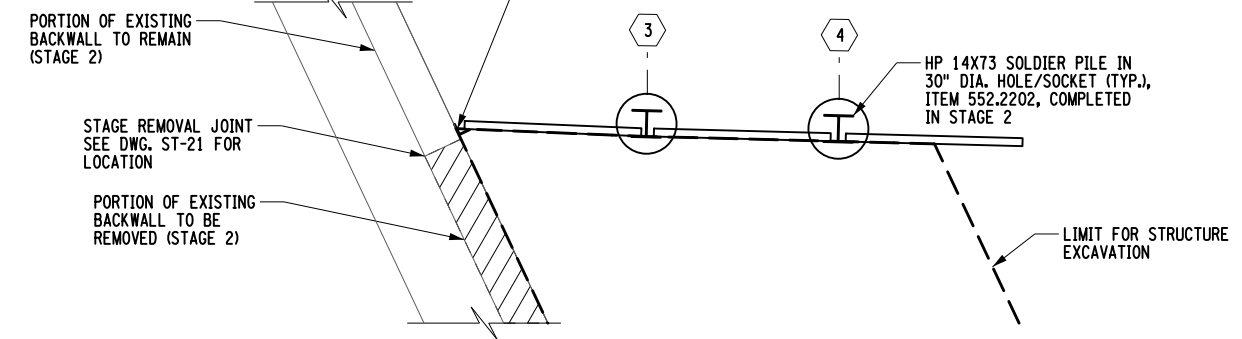
TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING EXCAVATION AND EMBANKMENT SECTIONS	DRAWING NUMBER: ST-11

THIS SHEET SUPERSEDES SHEET 53
IN ITS ENTIRETY



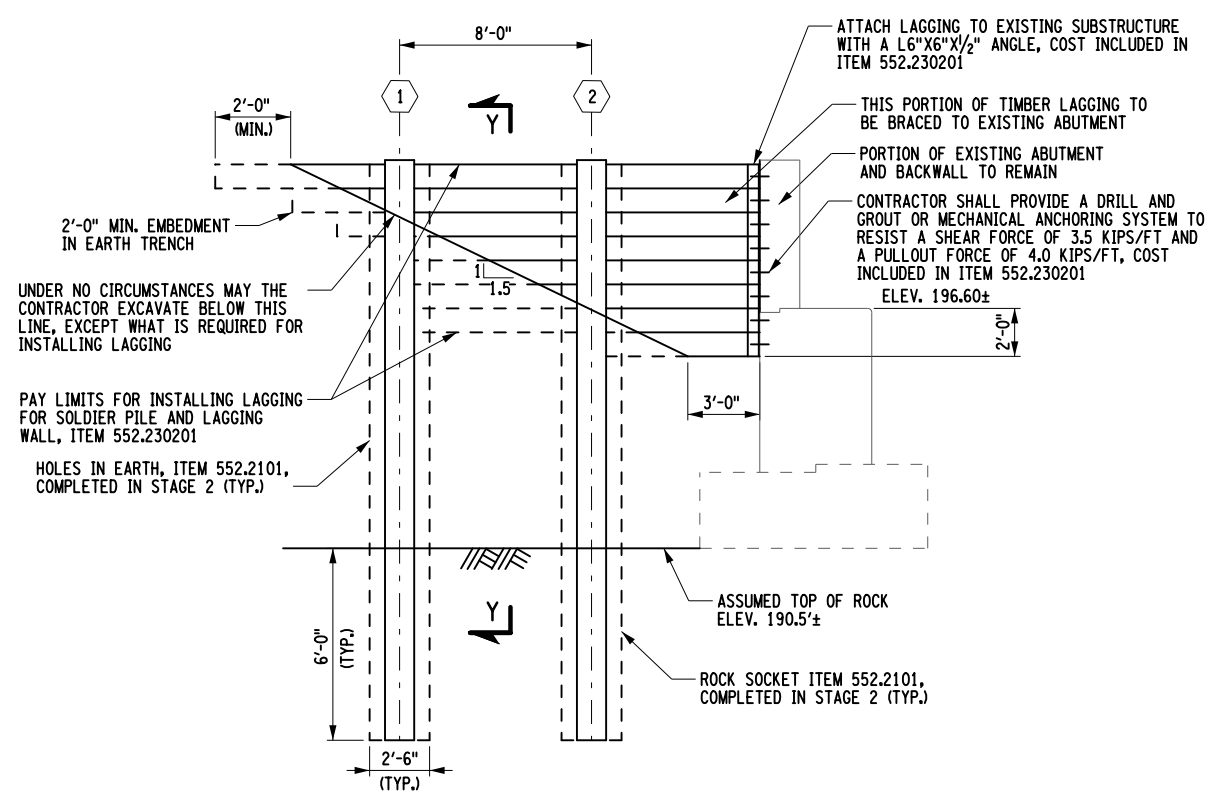
**STAGE 2 PLAN - BEGIN BRIDGE
SOLDIER PILE AND LAGGING WALL**

NOT TO SCALE



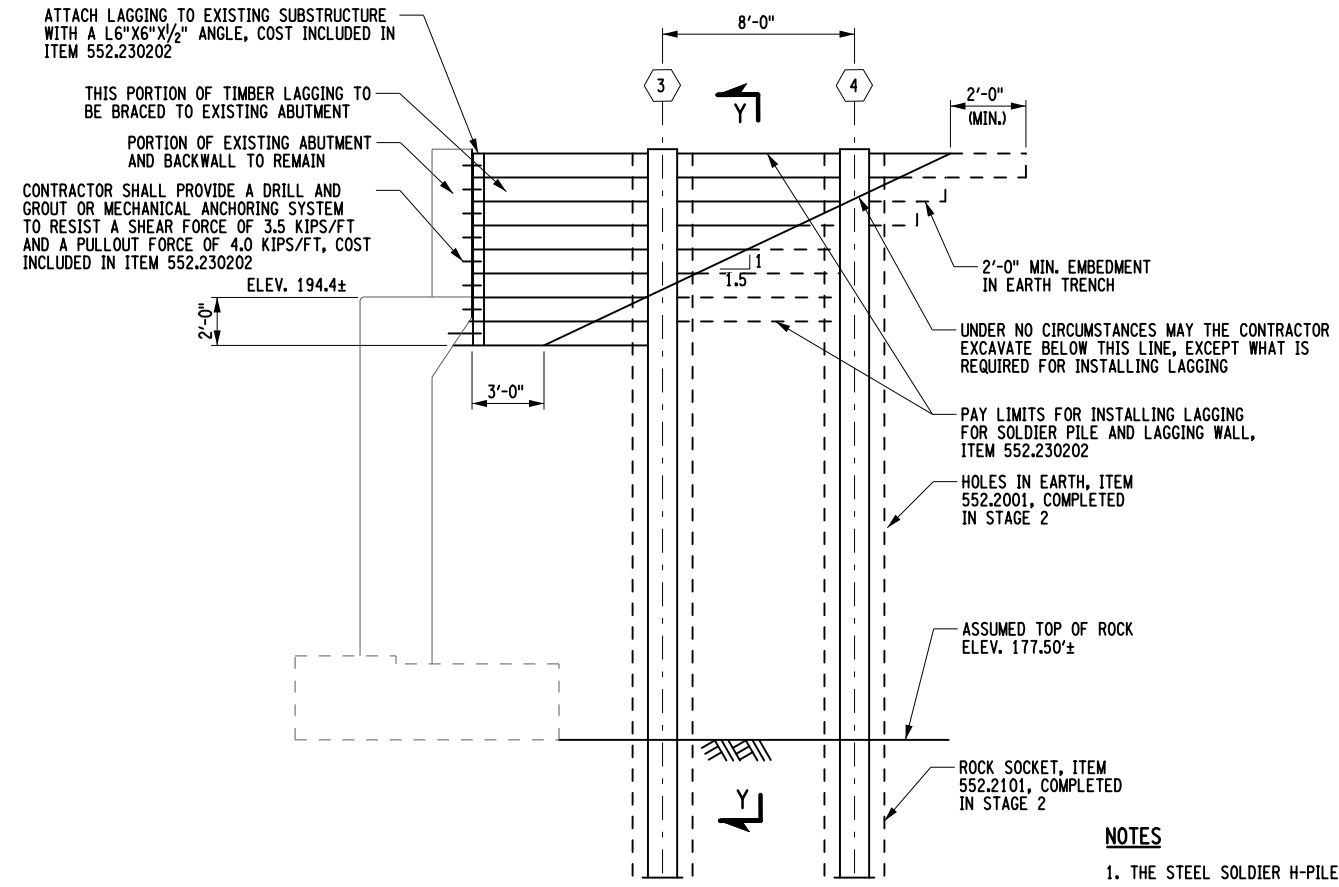
**STAGE 2 PLAN - END BRIDGE
SOLDIER PILE AND LAGGING WALL**

NOT TO SCALE



**STAGE 2 ELEVATION - BEGIN BRIDGE
SOLDIER PILE AND LAGGING WALL**

NOT TO SCALE



**STAGE 2 ELEVATION - END BRIDGE
SOLDIER PILE AND LAGGING WALL**

NOT TO SCALE

NOTES

1. THE STEEL SOLDIER H-PILES SHALL BE ASTM 572 GRADE 50.
2. A SURCHARGE LOAD OF 250 PSF WAS APPLIED TO THE TOP OF THE WALL.
3. WHEN NO LONGER NECESSARY FOR EXCAVATION SUPPORT AFTER STAGE 3 BACKFILLING IS COMPLETE, REMOVE LAGGING AND CUT OFF AND REMOVE SOLDIER PILES TO THE SUBGRADE SURFACE.
4. SEE SECTION Y-Y ON DRAWING NO. ST-13.
5. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONS.

PILE NUMBER	STATION	OFFSET (IN FEET)	PILE TOP ELEVATIONS (IN FEET)	DEPTH OF EXCAVATION (IN FEET)	REQUIRED PILE TIP ELEV. (IN FEET)	REQUIRED PILE LENGTH (IN FEET)	ASSUMED ROCK ELEVATION (IN FEET)	MINIMUM ROCK SOCKET (IN FEET)	MINIMUM PILE SECTION MODULUS (IN INCHES ³)	RECOMMENDED SOLDIER PILE SECTION	MINIMUM DIA. OF HOLE (IN INCHES)	AS-BUILT PILE LENGTH (IN FEET)
1	18+95.51	33.17 RT	204.35	2.26	184.50	19.09	190.50	6.00	107	HP14X73	30	
2	19+03.52	33.17 RT	204.35	7.05	184.50	19.09	190.50	6.00	107	HP14X73	30	
3	22+81.80	33.17 RT	202.18	6.22	171.50	30.07	177.50	6.00	107	HP14X73	30	
4	22+89.82	33.17 RT	202.18	1.43	171.50	30.07	177.50	6.00	107	HP14X73	30	

NOTE: STATION AND OFFSET GIVEN TO THE CENTER OF HOLE AND PILE.

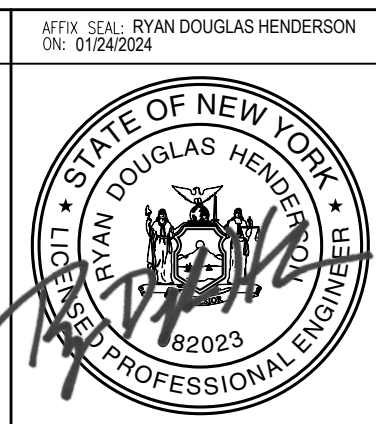
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

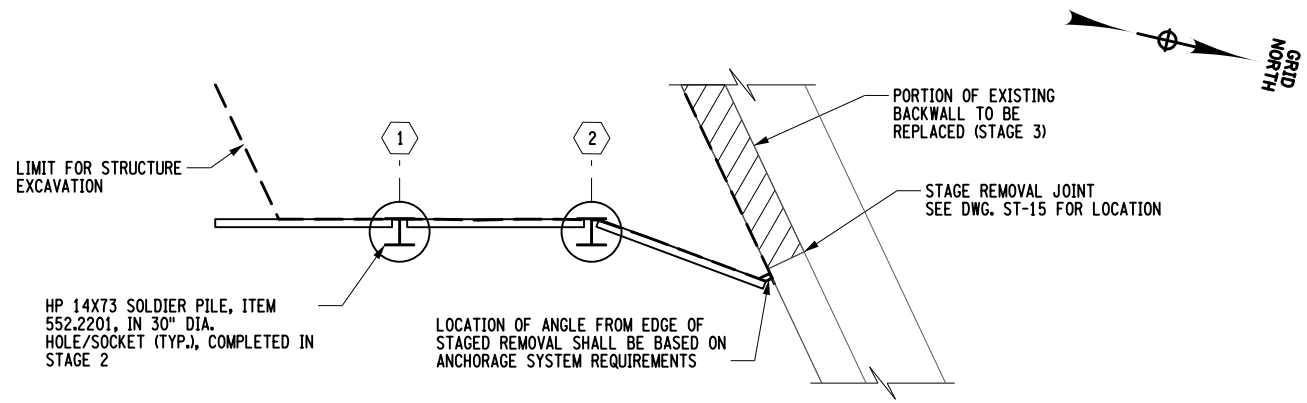


TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING INTERIM SOLDIER PILE AND LAGGING WALL PLAN AND ELEVATION STAGE 2	DRAWING NUMBER: ST-12

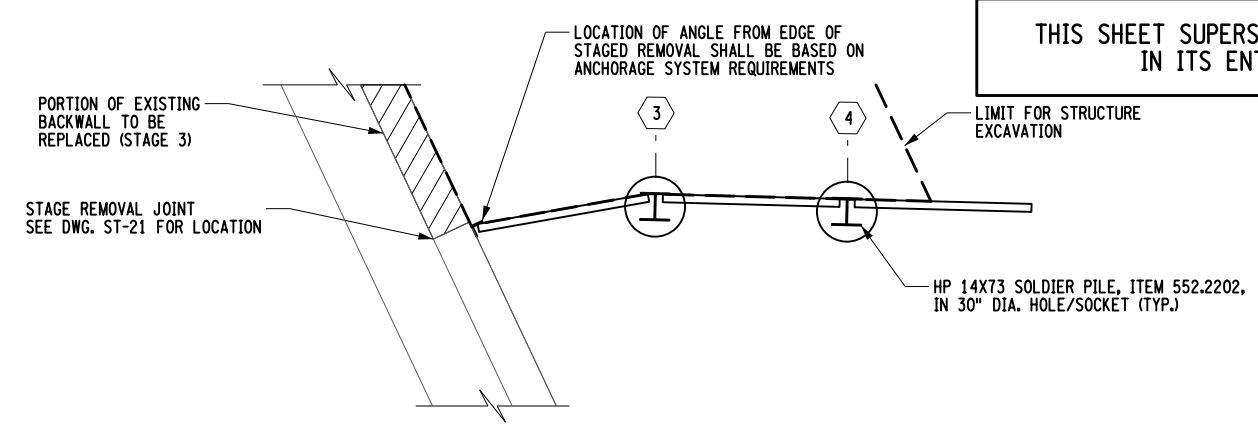
CHECK
 DRAFTING
 CHECK
 DESIGN
 R. HENDERSON
 DESIGN SUPERVISOR
 FILE NAME =
 DATE/TIME = 1/24/2024
 USER = BENTLEYHOSTING\jmtpl110501



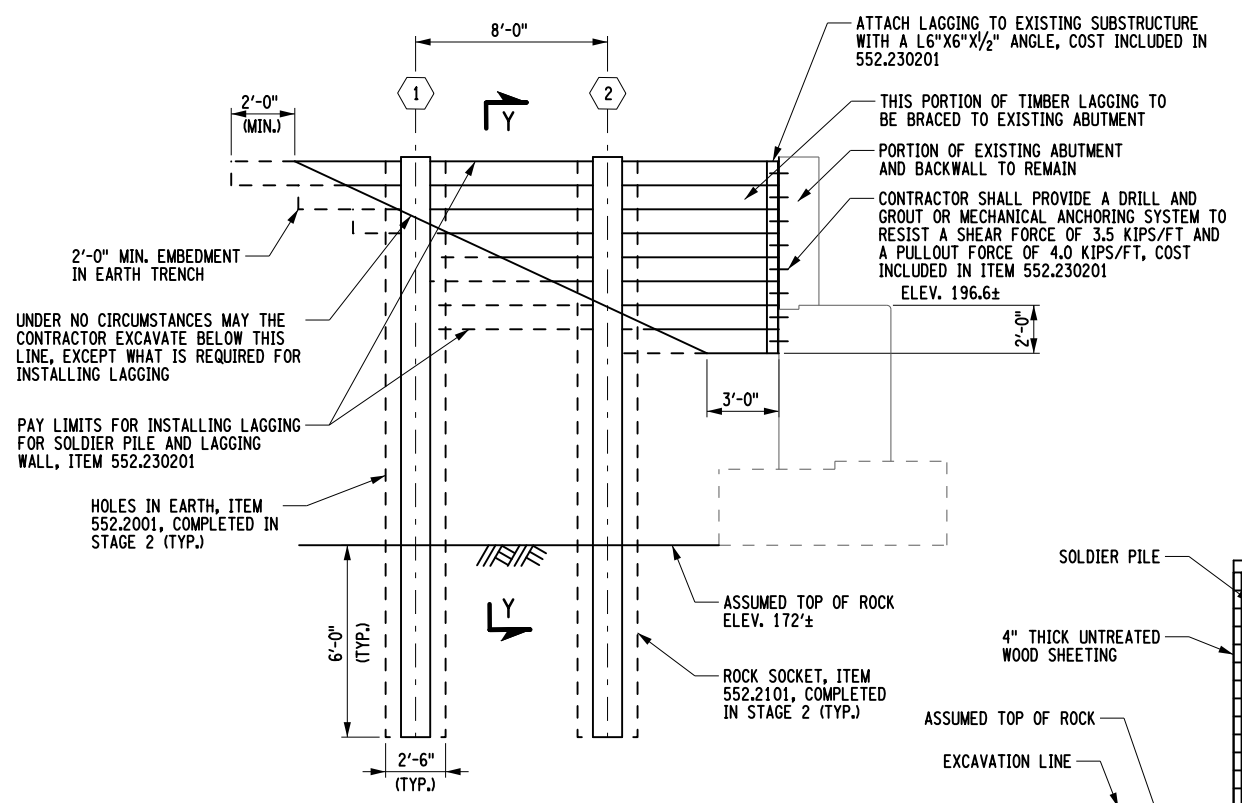
THIS SHEET SUPERSEDES SHEET 54
IN ITS ENTIRETY



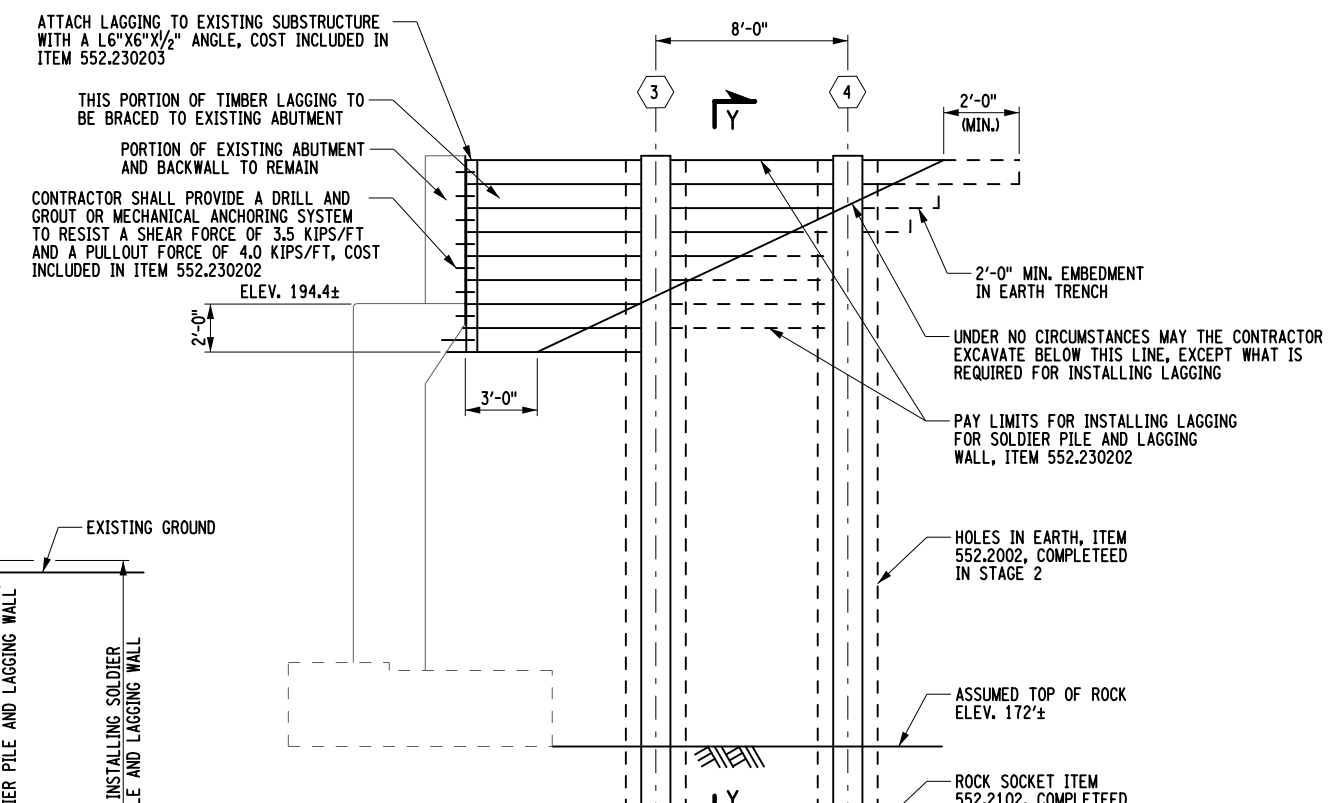
**STAGE 3 PLAN - BEGIN BRIDGE
SOLDIER PILE AND LAGGING WALL**
NOT TO SCALE



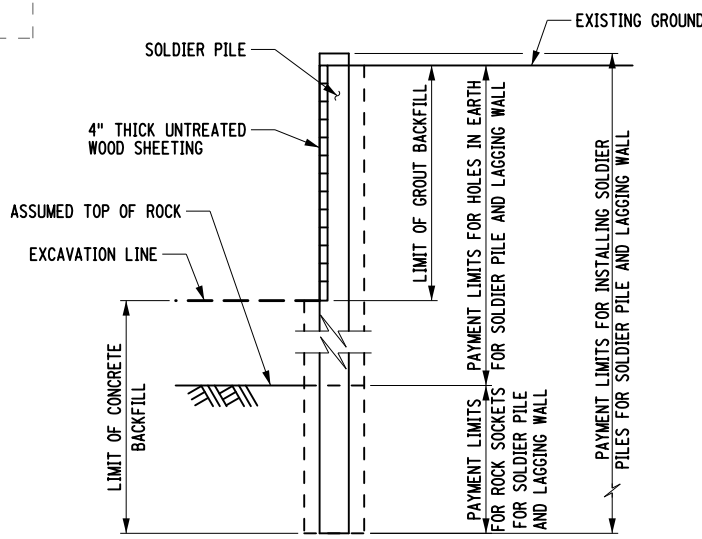
**STAGE 3 PLAN - END BRIDGE
SOLDIER PILE AND LAGGING WALL**
NOT TO SCALE



**STAGE 3 ELEVATION - BEGIN BRIDGE
SOLDIER PILE AND LAGGING WALL**
NOT TO SCALE



**STAGE 3 ELEVATION - END BRIDGE
SOLDIER PILE AND LAGGING WALL**
NOT TO SCALE



**SECTION Y-Y
FOR PILES PLACED IN A HOLE**
NOT TO SCALE

NOTES

1. THE STEEL SOLDIER H-PILES SHALL BE ASTM 572 GRADE 50.
2. A SURCHARGE LOAD OF 250 PSF WAS APPLIED TO THE TOP OF THE WALL.
3. WHEN NO LONGER NECESSARY FOR EXCAVATION SUPPORT AFTER STAGE 3 BACKFILLING IS COMPLETE, REMOVE LAGGING AND CUT OFF AND REMOVE SOLDIER PILES TO THE SUBGRADE SURFACE.
4. SEE PILE TABLE ON DRAWING NO. ST-12.
5. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONS.

CHECK
 DRAFTING
 CHECK
 DESIGN
 R. HENDERSON
 DESIGN SUPERVISOR
 DATE/TIME = 1/24/2024
 USER = BENTLEYHOSTING\jmtpl\lres01\$

ALTERED BY:
ON:

AFFIX SEAL: RYAN DOUGLAS HENDERSON
ON: 01/24/2024



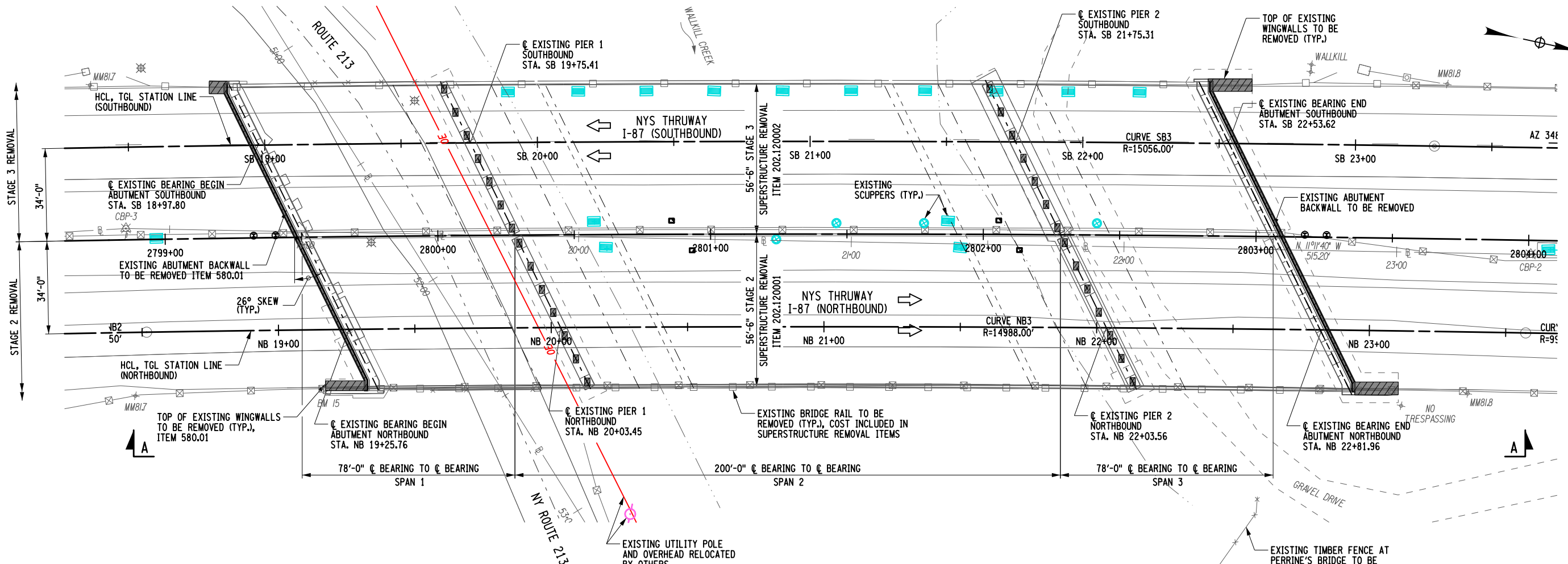
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

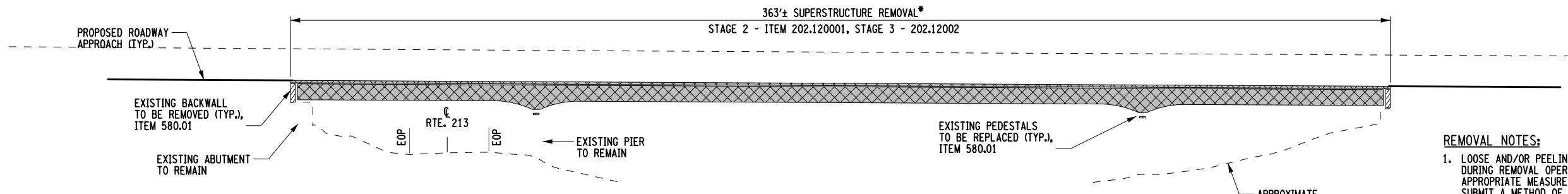


TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING INTERIM SOLDIER PILE AND LAGGING WALL PLAN AND ELEVATION STAGE 3	DRAWING NUMBER: ST-13

THIS SHEET SUPERSEDES SHEET 55
IN ITS ENTIRETY



REMOVAL PLAN
NOT TO SCALE



REMOVAL ELEVATION A-A
NOT TO SCALE

REMOVAL NOTES:

1. LOOSE AND/OR PEELING PAINT ON STEEL SURFACES MAY BECOME DISLODGED DURING REMOVAL OPERATIONS OR DURING TRANSPORTATION FROM THE SITE UNLESS APPROPRIATE MEASURES ARE TAKEN. THE CONTRACTOR SHALL FORMULATE AND SUBMIT A METHOD OF REMEDIATING THE CONDITION FOR APPROVAL BY THE ENGINEER. WORKER LEAD PROTECTION IN ACCORDANCE WITH 29 CFR 1926.62 SHALL BE SATISFIED. REMEDIATION METHODS COULD INCLUDE TRANSPORTING AFFECTED MEMBERS IN CLOSED TRUCKS, WRAPPING AFFECTED MEMBERS PRIOR TO REMOVAL, ENCAPSULATING THE LOOSE PAINT OR REMOVAL OF LOOSE PAINT PRIOR TO DISMANTLING OPERATIONS. THE COST OF REMEDIATING THIS CONDITION SHALL BE INCLUDED IN THE LUMP SUM PRICE(S) BID FOR THE SUPERSTRUCTURE REMOVAL ITEM(S) (OR THE UNIT PRICE BID FOR THE SUBSTRUCTURE REMOVAL ITEM.) THE USE OF ENVIRONMENTAL GROUND AND/OR WATERWAY PROTECTION ITEMS WILL BE REQUIRED, DEPENDING ON THE ALTERNATIVE CHOSEN, THE TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE ITEM MAY BE REQUIRED, BECAUSE OF THE ABOVE-MENTIONED CONDITION, THE CONTRACTOR SHALL EXAMINE THE CONDITION OF THE STRUCTURE'S PAINT PRIOR TO SUBMITTING A BID.
2. REFER TO SUBSECTION 107-05 OF THE STANDARD SPECIFICATIONS FOR SAFETY AND HEALTH REQUIREMENTS.
3. REFER TO DWG. ST-7 FOR 570 ITEMS RELATED TO LEAD BASED PAINT.

NOTES:

1. SEE DWG. ST-8 FOR BRIDGE REMOVAL NOTES.
2. SEE DWG. ST-3 & ST-4 FOR BRIDGE STAGING SECTIONS.
3. SEE DWG. ST-15 THRU ST-27 FOR SUBSTRUCTURE REMOVAL DETAILS.
4. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

LEGEND

- * DENOTES DIMENSION MEASURED ALONG HCL.
- [Hatched Box] LIMITS OF SUPERSTRUCTURE REMOVAL STAGE 2 - ITEM 202.120001, STAGE 3 - 202.120002
- [Solid Box] LIMITS OF CONCRETE REMOVAL, ITEM 580.01

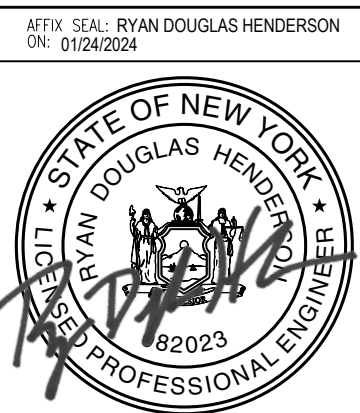
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

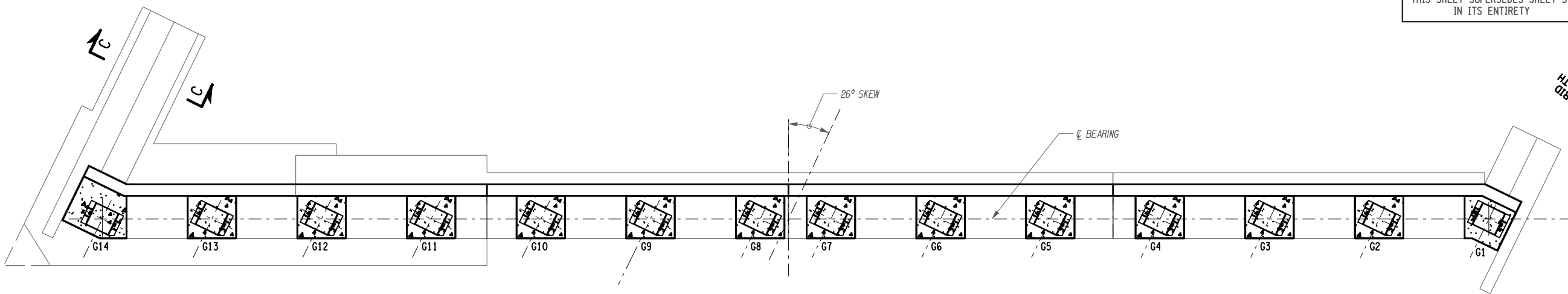
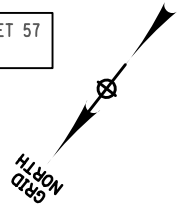


TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALKKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING REMOVAL PLAN AND ELEVATION	DRAWING NUMBER: ST-14

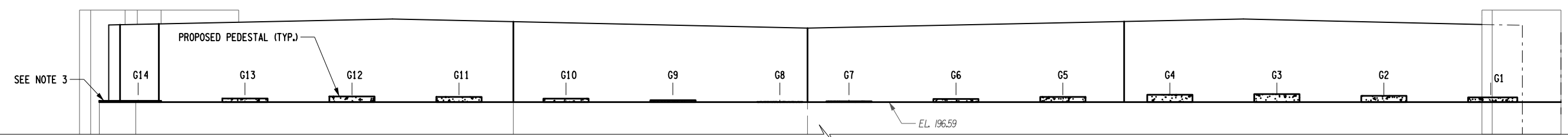
USER = BENTLEYHOSTING\jmtw11tes01\$
 DATE/TIME = 1/24/2024
 R. HENDERSON
 DESIGN SUPERVISOR



THIS SHEET SUPERSEDES SHEET 57
IN ITS ENTIRETY



PLAN



ELEVATION

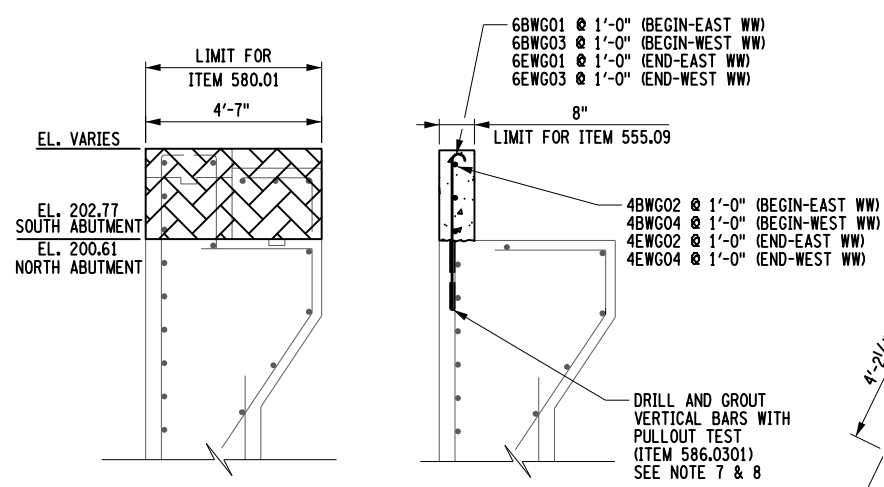
LOCATION	BRG. PT.	A	B1	C
SOUTH ABUTMENT	G1-G14	26°	1'-1/2"	6/4"

ITEM	DESCRIPTION	UNIT	QUANTITY
555.09	CONCRETE FOR STRUCTURES, CLASS HP *	CY	3.20
580.01	REMOVAL OF STRUCTURAL CONCRETE *	CY	12.00
586.0201	DRILLING AND GROUTING OF VERTICAL BARS**	EA	166.00
586.0301	DRILLING AND GROUTING BOLTS OR REINFORCING BARS WITH PULLOUT TEST**	EA	147.00

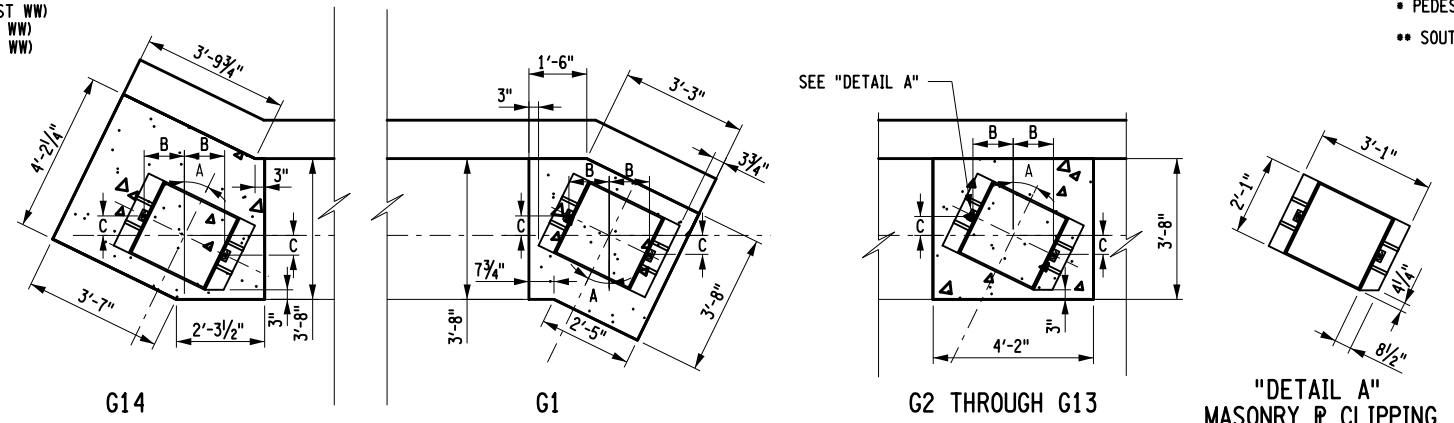
* PEDESTAL AND WINGWALL QUANTITY SHOWN
** SOUTH ABUTMENT BACKWALL & WINGWALL

NOTES:

- SEE DWG. NO. ST-28 FOR MASONRY PLATE DETAILS.
- PROPOSED BACKWALL REINFORCEMENT NOT SHOWN FOR CLARITY.
- SEE DWG. NO. ST-24 FOR PEDESTAL ELEVATION DETAILS.
- ALL ELEVATIONS SHALL BE FIELD MEASURED AND VERIFIED PRIOR TO ORDERING MATERIALS AND START WORKING.
- ALL REINFORCEMENT TO BE PAID UNDER ITEM 556.0203 UNLESS OTHERWISE NOTED.
- THE COST OF FURNISHING AND PLACING TYPE D WATERSTOPS SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE CONCRETE ITEMS.
- NEW DRILL AND GROUT VERTICAL REINFORCEMENT AT REAR FACE SHALL BE PLACED BETWEEN EXISTING VERTICAL BARS
- THE EMBEDMENT DEPTH SHOWN IN THE PLANS FOR DRILLING AND GROUTING IS FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR'S ENGINEER SHALL DETERMINE THE DEVELOPMENT LENGTH REQUIRED TO DEVELOP THE FULL STRENGTH OF THE ANCHOR ROD AND/OR REINFORCING BAR. THE CALCULATIONS SHALL BE BASED ON THE SIZE OF THE ROD/BAR, ACTUAL EDGE DISTANCE TO THE ROD/BAR, THE PROXIMITY TO OTHER RODS/BARS, ESTIMATED CONCRETE STRENGTH, AND THE GROUT SUPPLIERS' RECOMMENDATIONS. THE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS AND DETAILS SEALED BY A REGISTERED NEW YORK STATE PROFESSIONAL ENGINEER TO THE ENGINEER FOR APPROVAL.



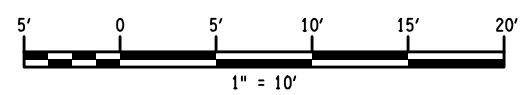
EXISTING SECTION C-C PROPOSED (N.T.S.)
SE WINGWALL SECTION SHOWN (SW, NW AND NE WINGWALLS SIMILAR)



LEGEND:

- ITEM 580.01 REMOVAL OF STRUCTURAL CONCRETE
- ITEM 555.09 CONCRETE FOR STRUCTURES, CLASS HP

EXPANSION BEARING LAYOUT (PARTIAL PLAN - BACKWALL AND BRIDGE SEAT ONLY) (N.T.S.)



ALTERED BY: ON: AFFIX SEAL: Yogendra Gauchan ON: 01/24/2024



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



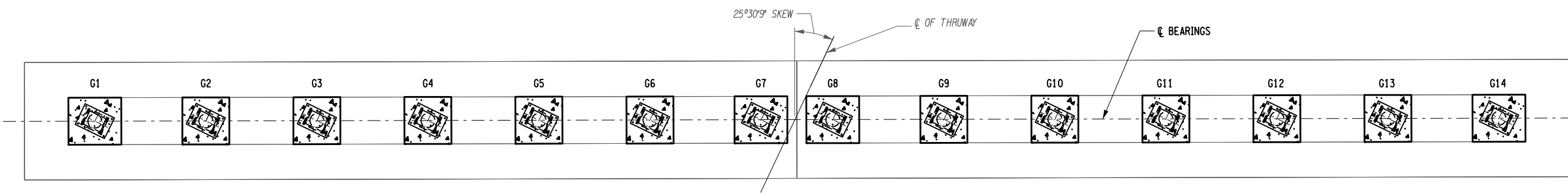
TITLE OF PROJECT I-87 OVER WALLKILL RIVER BRIDGE REHABILITATION	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING SOUTH ABUTMENT - BEARING LAYOUT AND PEDESTAL DETAILS	DRAWING NUMBER: ST-16

USER = KCEPC\jbolger
 CHECK
 DRAFTING
 J.BOLGER
 CHECK
 Y.GAUCHAN
 DESIGN
 DATE/TIME = 1/24/2024
 R.SHARMA
 DESIGN SUPERVISOR
 Y.GAUCHAN
 CHECK
 B.VADDI/C.VOHRA
 CHECK
 Y.GAUCHAN
 CHECK

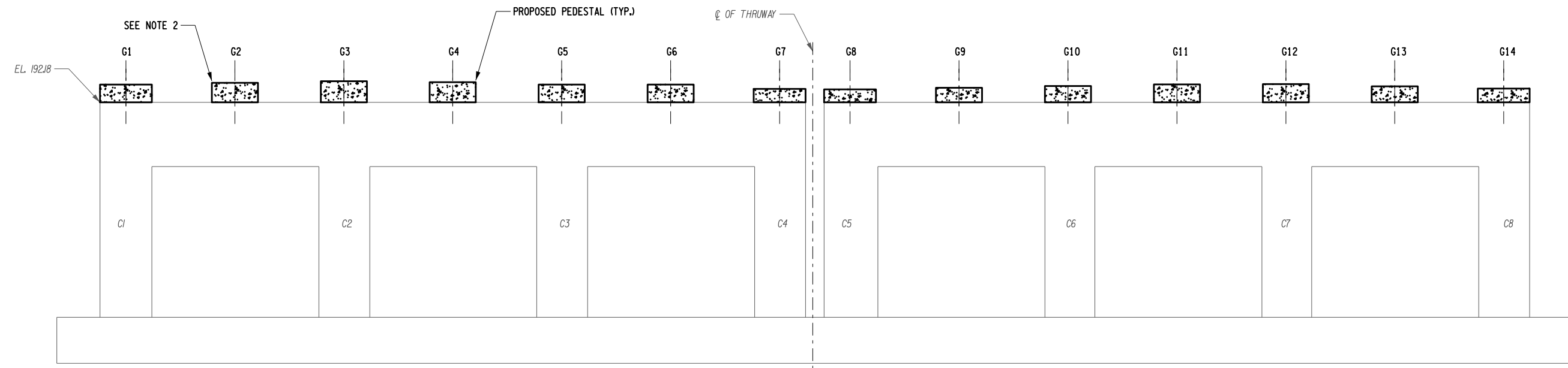
THIS SHEET SUPERSEDES SHEET 59
IN ITS ENTIRETY

GRID
NORTH

AZ 51°42'39.7"



PIER 1
PLAN



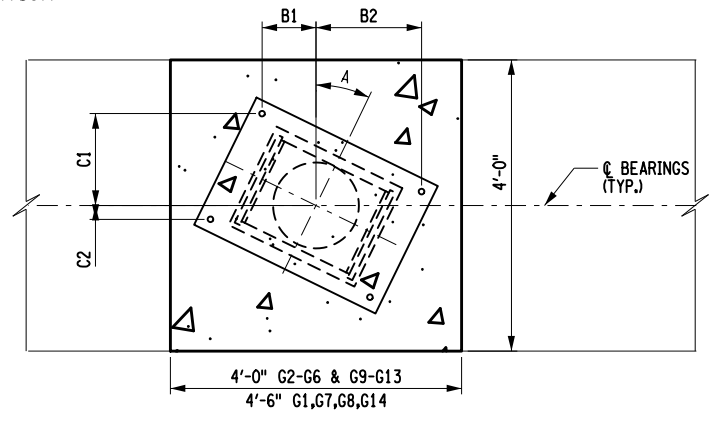
PIER 1
SOUTH ELEVATION

ITEM	DESCRIPTION	UNIT	QUANTITY
555.09	CONCRETE FOR STRUCTURES, CLASS HP	CY	12.70

ANCHOR BOLT LAYOUT TABLE						
LOCATION	BRG. PT.	A1	B1	B2	C1	C2
PIER 1	G1-G14	26°	8 3/8"	1'-3 3/8"	1'-1 3/8"	3/8"

LEGEND:

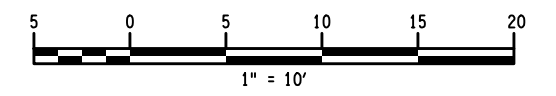
ITEM 555.09 CONCRETE FOR STRUCTURES, CLASS HP



MR (EXPANSION) BEARING LAYOUT
(PARTIAL PLAN)
(N.T.S)

NOTES:

- SEE DWG. NO. ST-29 FOR MASONRY PLATE DETAILS.
- SEE DWG. NO. ST-23 FOR PEDESTAL ELEVATION DETAILS.
- ALL ELEVATIONS SHALL BE FIELD MEASURED AND VERIFIED PRIOR TO ORDERING MATERIALS AND START WORKING.
- APPLY PROTECTIVE SEALER, ITEM 559.04, TO ENTIRE SURFACE AREA OF PIER.



USER = KCEPC\jbolger
 DATE/TIME = 1/24/2024
 Y.GAUCHAN
 B.VADDI/C.VOHRA
 J.BOLGER
 R.SHARMA
 DESIGN SUPERVISOR

ALTERED BY:
ON:

AFFIX SEAL: Yogendra Gauchan
ON: 01/24/2024



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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



Thruway Authority

Engineering and
Land Surveying, P.C.

TITLE OF PROJECT
I-87 OVER WALLKILL RIVER
BRIDGE REHABILITATION
LOCATION OF PROJECT
ALBANY DIVISION
MP 81.72 - BIN 5041189
TITLE OF DRAWING
PIER 1 - BEARING LAYOUT
AND PEDESTAL DETAILS

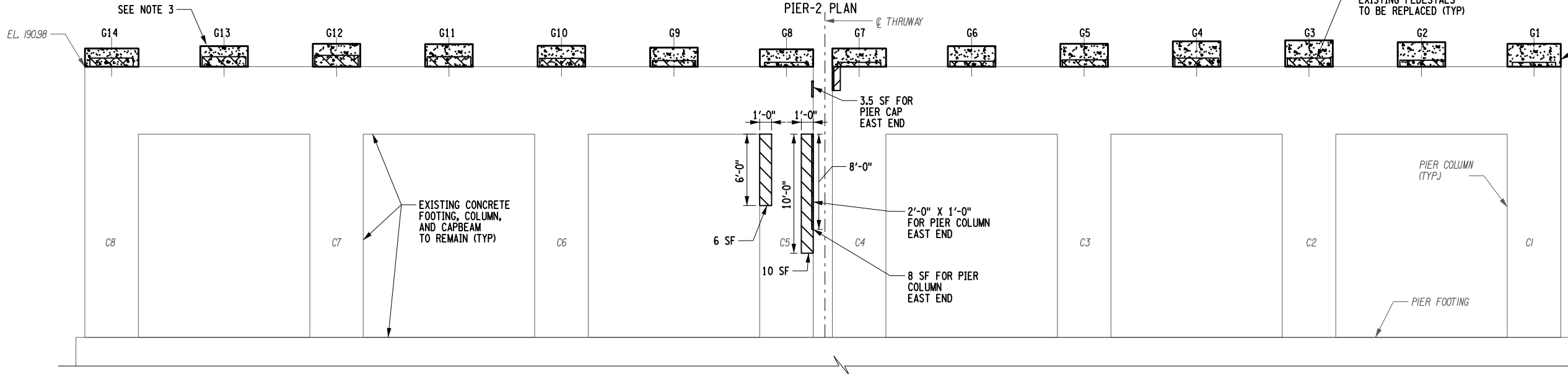
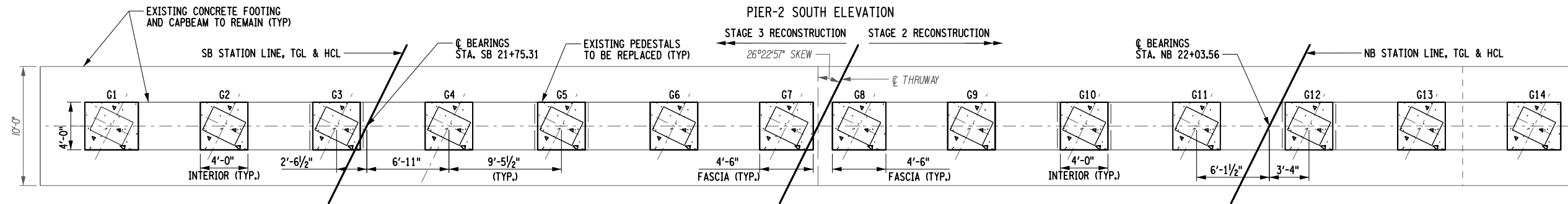
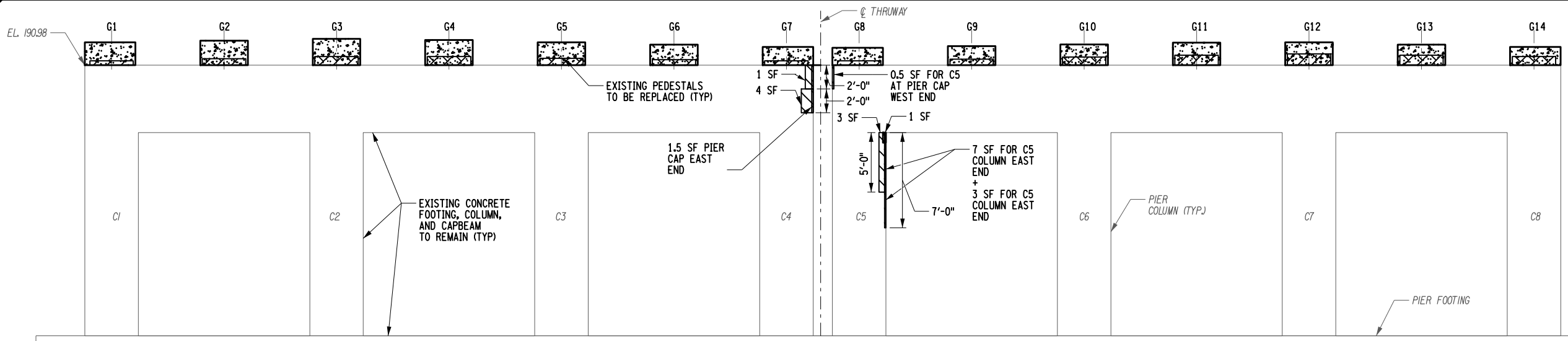
CONTRACT NUMBER:
TAA 23-25B
DATE:
01/24/2024
DRAWING NUMBER:
ST-18

NOTES:

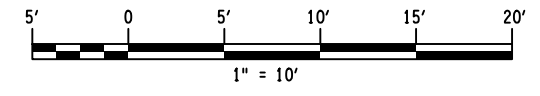
- SEE DWG. ST-27 FOR CONCRETE REPAIR DETAILS.
- SEE DWG. ST-20 FOR BEARING LAYOUT AND PEDESTAL DETAILS.
- SEE DWG. NO. ST-23 FOR PEDESTAL ELEVATION DETAILS.
- DETERIORATED PEDESTAL CONCRETE SHALL BE REMOVED UNDER ITEM 580.01.
- ESTIMATE OF DETERIORATED CONCRETE IS BASED ON PREVIOUS INSPECTION. CONTRACTOR SHALL SOUND ALL SUBSTRUCTURAL CONCRETE IN PRESENCE OF ENGINEER TO DETERMINE THE EXTENT OF ACTUAL CONCRETE DETERIORATION.
- ALL ELEVATIONS SHALL BE FIELD MEASURED AND VERIFIED PRIOR TO ORDERING MATERIALS AND START WORKING.
- APPLY PROTECTIVE SEALER, ITEM 559.02 (NEW STRUCTURAL CONCRETE) AND 559.04 (EXISTING STRUCTURAL CONCRETE), TO ENTIRE SURFACE AREA OF PIER.

LEGEND:

- ITEM 555.09 CONCRETE FOR STRUCTURES, CLASS HP
- ITEM 582.06 REMOVAL OF STRUCTURAL CONCRETE-REPLACEMENT WITH CLASS D CONCRETE
- ITEM 580.01 REMOVAL OF STRUCTURAL CONCRETE



ITEM	DESCRIPTION	UNIT	QUANTITY
555.09	CONCRETE FOR STRUCTURES, CLASS HP	CY	15.60
559.02	PROTECTIVE SEALING OF NEW STRUCTURAL CONCRETE	SF	727.00
559.04	PROTECTIVE SEALING OF CONCRETE WITH COATING TYPE PROTECTIVE SEALER	SF	4239.00
580.01	REMOVAL OF STRUCTURAL CONCRETE	CY	2.50
582.06	REMOVAL OF STRUCTURAL CONCRETE-REPLACEMENT WITH CLASS D CONCRETE	SF	50.50



ALTERED BY:
ON:

AFFIX SEAL: Yogendra Gauchan
ON: 01/24/2024

STATE OF NEW YORK
YOGENDRA GAUCHAN
LICENSED PROFESSIONAL ENGINEER
105642

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE OF OPPORTUNITY

Thruway Authority

Engineering and Land Surveying, P.C.

TITLE OF PROJECT: I-87 OVER WALLKILL RIVER BRIDGE REHABILITATION

LOCATION OF PROJECT: ALBANY DIVISION MP 81.72 - BIN 5041189

TITLE OF DRAWING: PIER 2 - PLAN AND ELEVATION

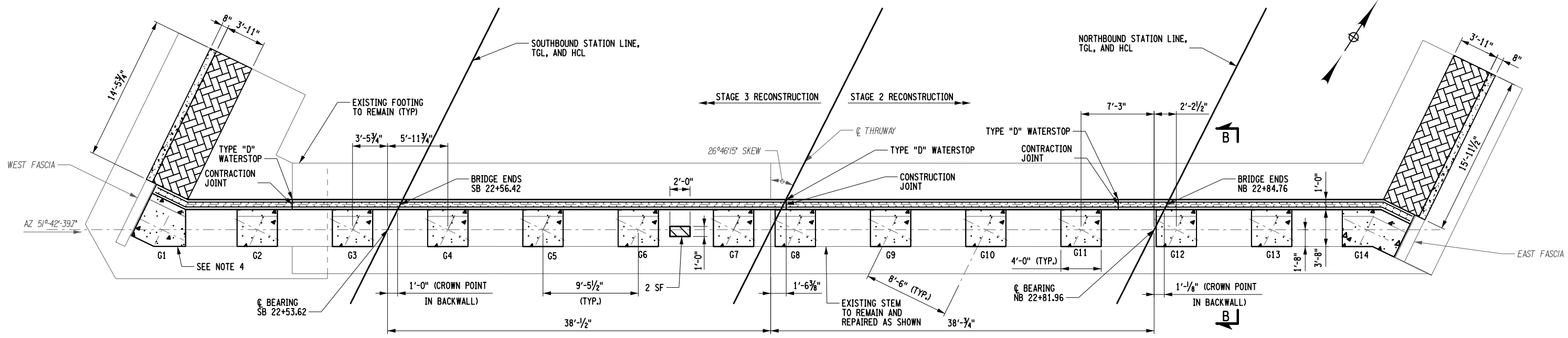
CONTRACT NUMBER: TAA 23-25B

DATE: 01/24/2024

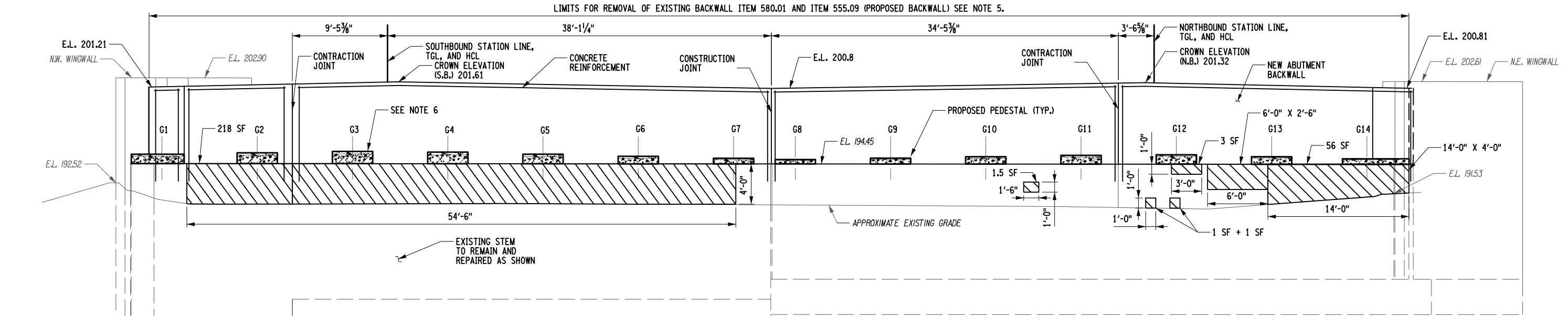
DRAWING NUMBER: ST-19

FILE NAME =
DESIGN SUPERVISOR = R. SHARMA
DATE/TIME = 1/24/2024
USER = KCEPC\jbolger
J. BOLGER
DRAFTING = B. VADDI/C. VOHRA
CHECK = Y. GAUCHAN
Y. GAUCHAN
Y. GAUCHAN

THIS SHEET SUPERSEDES SHEET 62
IN ITS ENTIRETY

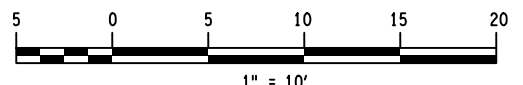


PLAN



ELEVATION

- LEGEND:**
- ITEM 580.01 REMOVAL OF STRUCTURAL CONCRETE
 - ITEM 555.09 CONCRETE FOR STRUCTURES, CLASS HP
 - ITEM 582.06 REMOVAL OF STRUCTURAL CONCRETE-REPLACEMENT WITH CLASS D CONCRETE



ITEM	DESCRIPTION	UNIT	QUANTITY
555.09	CONCRETE FOR STRUCTURES, CLASS HP*	CY	33.20
559.02	PROTECTIVE SEALING OF NEW STRUCTURAL CONCRETE	SF	2474.00
559.04	PROTECTIVE SEALING OF CONCRETE WITH COATING TYPE PROTECTIVE SEALER	SF	3451.00
580.01	REMOVAL OF STRUCTURAL CONCRETE	CY	64.10
582.06	REMOVAL OF STRUCTURAL CONCRETE-REPLACEMENT WITH CLASS D CONCRETE	SF	297.50

*PEDESTAL QUANTITY NOT INCLUDED

- NOTES:**
- SEE DWG. ST-27 FOR CONCRETE REPAIR DETAILS.
 - ESTIMATE OF DETERIORATED CONCRETE ARE BASED ON PREVIOUS INSPECTION. CONTRACTOR SHALL SOUND ALL SUBSTRUCTURAL CONCRETE IN PRESENCE OF ENGINEER TO DETERMINE THE EXTENT OF ACTUAL CONCRETE DETERIORATION. AND MAKE REPAIRS, AS PER DWG. ST-27.
 - ALL ELEVATIONS MUST BE FIELD MEASURED AND VERIFIED PRIOR TO ORDERING MATERIALS AND START WORKING.
 - SEE DWG. NO. ST-22 FOR BEARING LAYOUT AND PEDESTAL DETAILS.
 - SEE DWG. NO. ST-26 FOR SECTION B-B, EXISTING BACKWALL REMOVAL AND PROPOSED BACKWALL VERTICAL RECONSTRUCTION LIMIT DETAILS.
 - SEE DWG. NO. ST-25 FOR PEDESTAL ELEVATION DETAILS.
 - PARTIAL BACKWALL REINFORCEMENT SHOWN ONLY FOR CLARITY PURPOSE.
 - THE COST OF FURNISHING AND PLACING WATERSTOPS SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE CONCRETE ITEMS.
 - APPLY PROTECTIVE SEALER, ITEM 559.02 (NEW STRUCTURAL CONCRETE) AND 559.04 (EXISTING STRUCTURAL CONCRETE), TO ENTIRE SURFACE AREA OF ABUTMENT.

ALTERED BY:
ON:

AFFIX SEAL: Yogendra Gauchan
ON: 01/24/2024

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

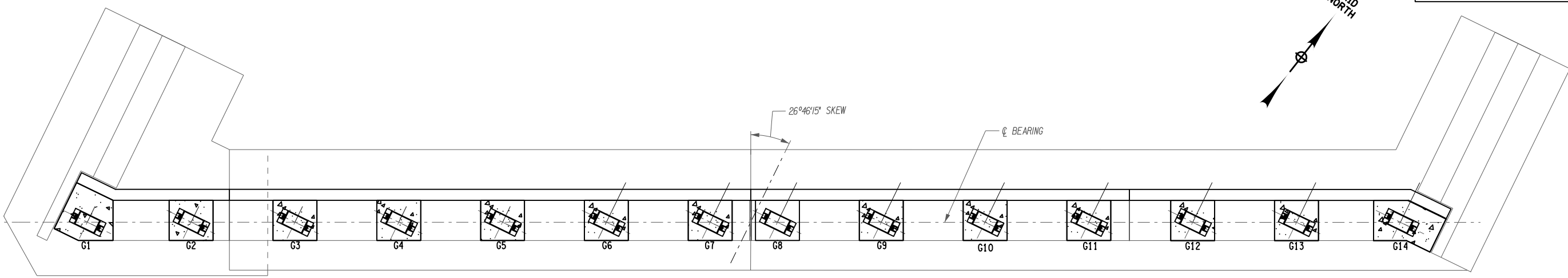
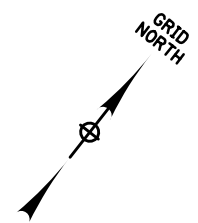
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



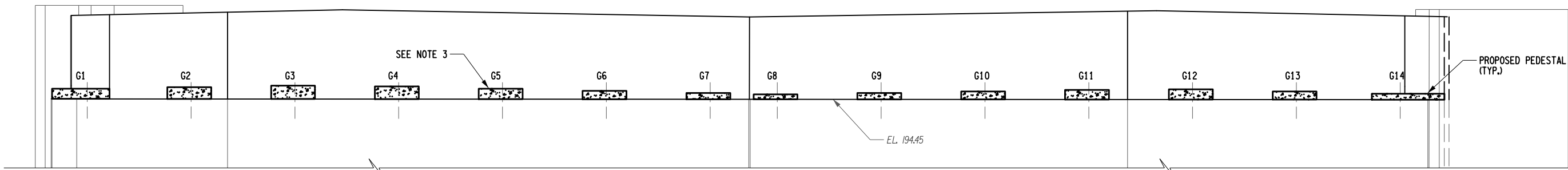
TITLE OF PROJECT I-87 OVER WALLKILL RIVER BRIDGE REHABILITATION	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING NORTH ABUTMENT - PLAN AND ELEVATION	DRAWING NUMBER: ST-21

Y. GAUCHAN
 CHECK
 B. VADDI / C. VOHRA
 DRAFTING
 J. BOLGER
 CHECK
 Y. GAUCHAN
 DESIGN
 R. SHARMA
 DESIGN SUPERVISOR
 DATE/TIME = 1/24/2024
 USER = KCEPC\jbolger

THIS SHEET SUPERSEDES SHEET 63
IN ITS ENTIRETY



PLAN

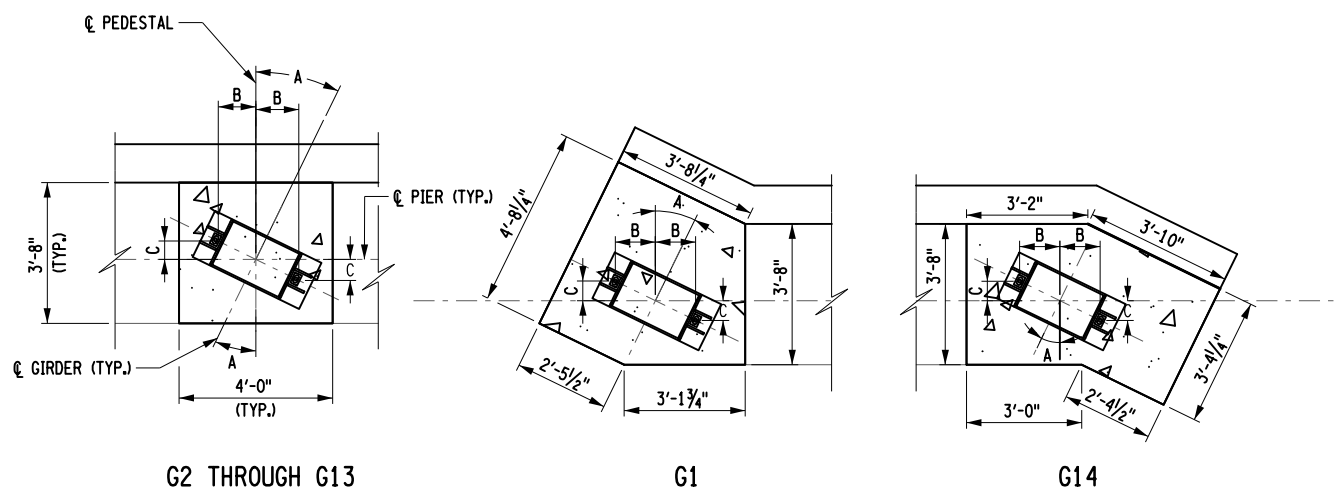


ELEVATION

ANCHOR BOLT LAYOUT TABLE				
LOCATION	BRG. PT.	A	B	C
NORTH ABUTMENT	G1-G14	26°	1'-1/2"	6 1/4"

ITEM	DESCRIPTION	UNIT	QUANTITY
555.09	CONCRETE FOR STRUCTURES, CLASS HP*	CY	6.60
580.01	REMOVAL OF STRUCTURAL CONCRETE*	CY	5.10
586.0201	DRILLING AND GROUTING OF VERTICAL BARS**	EA	168.00
586.0301	DRILLING AND GROUTING BOLTS OR REINFORCING BARS WITH PULLOUT TEST**	EA	158.00

* PEDESTAL QUANTITIES SHOWN
** NORTH ABUTMENT BACKWALL AND WINGWALL



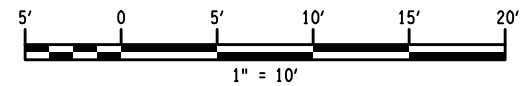
EXPANSION BEARING LAYOUT
N.T.S.

LEGEND:

ITEM 555.09 CONCRETE FOR STRUCTURES, CLASS HP

NOTES:

- SEE DWG. NO. ST-28 FOR MASONRY PLATE DETAILS.
- PROPOSED BACKWALL REINFORCEMENT NOT SHOWN FOR CLARITY.
- SEE DWG. NO. ST-25 FOR PEDESTAL ELEVATION DETAILS.
- ALL ELEVATIONS SHALL BE FIELD MEASURED AND VERIFIED PRIOR TO ORDERING MATERIALS AND START WORKING.
- SEE ST-19 FOR WINGWALL SECTIONS.



ALTERED BY: ON:
AFFIX SEAL: Yogendra Gauchan
ON: 01/24/2024



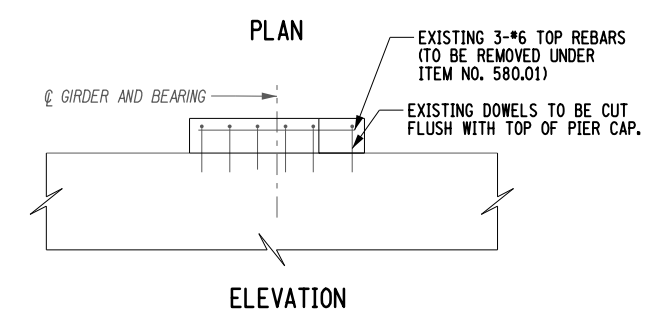
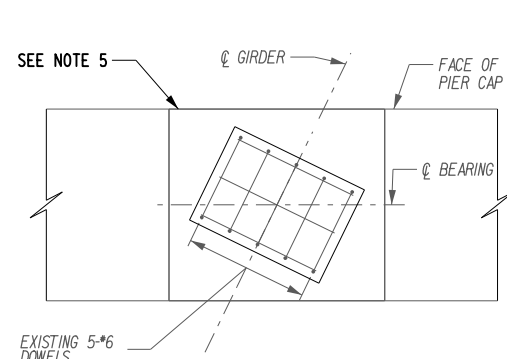
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

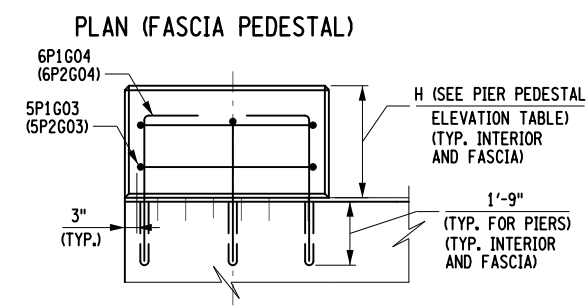
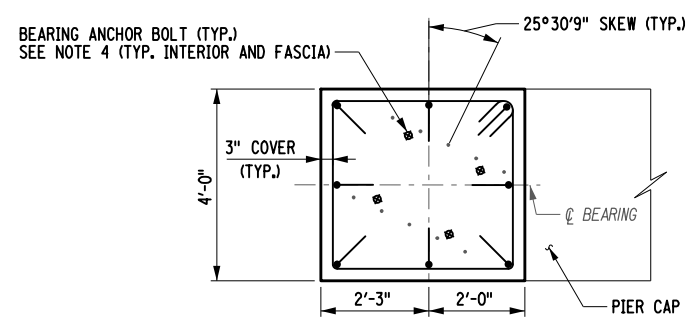


TITLE OF PROJECT I-87 OVER WALLKILL RIVER BRIDGE REHABILITATION	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING NORTH ABUTMENT - BEARING LAYOUT AND PEDESTAL DETAILS	DRAWING NUMBER: ST-22

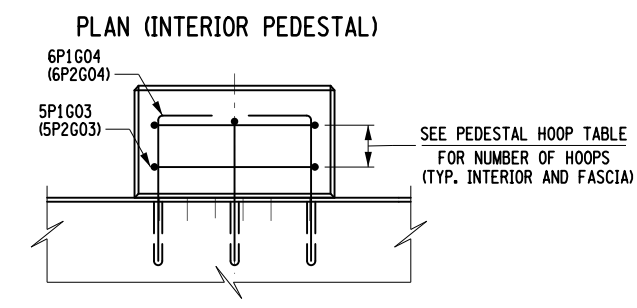
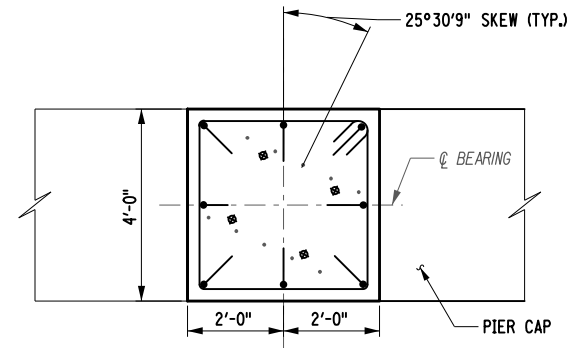
USER = KCEPC\jbolger
 CHECK
 J.BOLGER
 DRAFTING
 B.VADDI/C.VOHRRA
 CHECK
 Y.GAUCHAN
 DESIGN
 DATE/TIME = 1/24/2024
 DESIGN SUPERVISOR
 R.SHARMA
 FILE NAME =



EXISTING PEDESTAL REINFORCEMENT
(TYPICAL FOR PIER 1)
(PIER 2 SIMILAR)



PROPOSED PEDESTAL REINFORCEMENT
(TYPICAL FOR PIER 1)
(PIER 2 SIMILAR)



PIER PEDESTAL ELEVATION (SEE NOTE 1 AND *)							
PIER 1	ELEVATION (SEE NOTE 1)		PEDESTAL HEIGHT (IN) (SEE NOTE 2)	PIER 2	ELEVATION (SEE NOTE 1)		PEDESTAL HEIGHT (IN) (SEE NOTE 2)
	EXISTING (FT)	PROPOSED (FT)			EXISTING (FT)	PROPOSED (FT)	
G1	192.89	193.72	18.48	G1	191.69	192.90	23.01
G2	192.99	193.87	20.28	G2	191.77	193.04	24.69
G3	193.14	194.01	21.96	G3	191.88	193.19	26.49
G4	192.97	193.93	21.00	G4	191.79	193.10	25.41
G5	192.83	193.73	18.60	G5	191.64	192.90	23.01
G6	192.66	193.54	16.32	G6	191.48	192.71	20.73
G7	192.49	193.35	14.04	G7	191.31	192.51	18.33
G8	192.51	193.31	13.56	G8	191.33	192.44	17.49
G9	192.64	193.45	15.24	G9	191.37	192.58	19.17
G10	192.72	193.60	17.04	G10	191.52	192.73	20.97
G11	192.83	193.74	18.72	G11	191.61	192.87	22.65
G12	192.87	193.77	19.08	G12	191.66	192.90	23.01
G13	192.76	193.57	16.68	G13	191.52	192.71	20.73
G14	192.62	193.38	14.40	G14	191.35	192.51	18.33

PEDESTAL HOOP TABLE	
PEDESTAL HEIGHT	NUMBER OF HOOPS
4" TO 8"	1
8" TO 11"	2
11" TO 14"	3
14" TO 17"	4
17" TO 20"	5
20" TO 23"	6
23" TO 26"	7
26" TO 29"	8

NOTES:

- THE ELEVATIONS NOTED ON THIS DRAWING ARE BASED ON A FIELD SURVEY PERFORMED BY THE AUTHORITY IN SEPTEMBER 2022 AND CONFIRMED OCTOBER 2022. THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS AND ADJUST THE FINAL HEIGHTS OF THE PEDESTALS ACCORDINGLY.
- AVAILABLE PEDESTAL HEIGHTS AT THE PIERS SHALL BE ASSESSED PRIOR TO FINALIZING OVERALL HEIGHT OF M.R. TYPE BEARINGS. THE CONTRACTOR SHALL COORDINATE AVAILABLE HEIGHTS WITH THE BEARING MANUFACTURER.
- CONSTRUCTION OF CONCRETE PEDESTALS SHALL NOT COMMENCE UNTIL BEARING SHOP DRAWING SUBMITTALS HAVE BEEN APPROVED.
- SEE DWG. NO. ST-18 AND ST-20 FOR PIER 1 AND PIER 2 ANCHOR BOLT LAYOUT DETAILS.
- EXISTING CONCRETE TO BE COMPLETELY REMOVED (ITEM 580.01) AND CUT TOP OF DOWEL TO BRIDGE SEAT LEVEL (ITEM 580.01) TO INSTALL NEW PEDESTAL UNDER ITEM NO. 555.09.
- ALL REINFORCEMENT SHOWN SHALL BE PAID FOR UNDER ITEM 556.0203 - GALVANIZED BAR REINFORCEMENT FOR STRUCTURES UNLESS OTHERWISE NOTED.
- DRILLING AND GROUTING OF PROPOSED PEDESTAL DOWELS INTO EXISTING PIER SEAT SHALL BE PAID UNDER ITEM NO. 586.0201
- THESE ELEVATIONS MAY HAVE TO BE ADJUSTED TO ACCOMMODATE THE ACTUAL BEARINGS FURNISHED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY CHANGES IN THE BEARINGS WHICH MAY AFFECT THE PEDESTAL ELEVATIONS.

DRILLING AND GROUTING OF VERTICAL BARS (ITEM 586.0201)	
LOCATION	QUANTITY (EA)
PIER 1	112
PIER 2	112

ALTERED BY: ON:
AFFIX SEAL: Yogendra Gauchan ON: 01/24/2024



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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



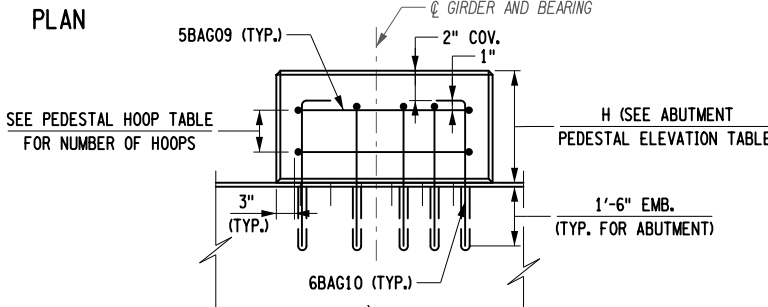
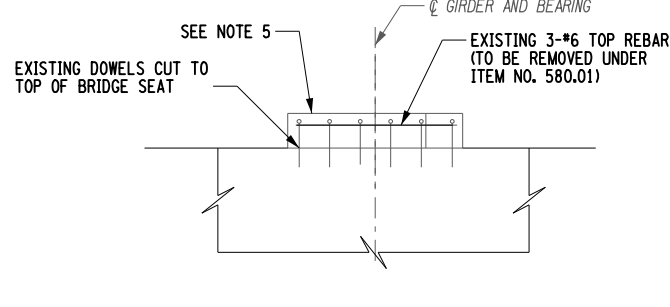
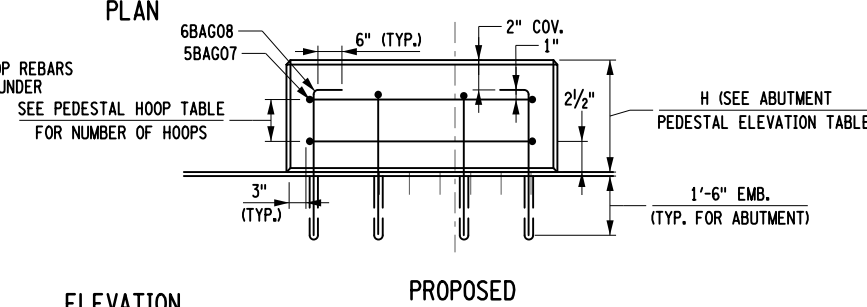
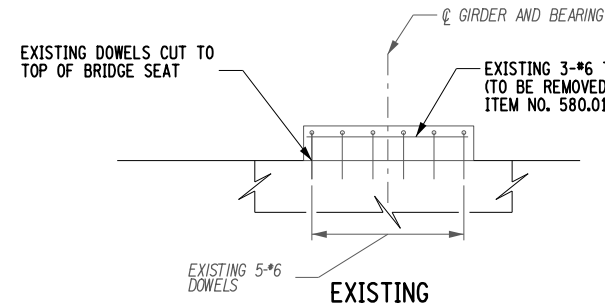
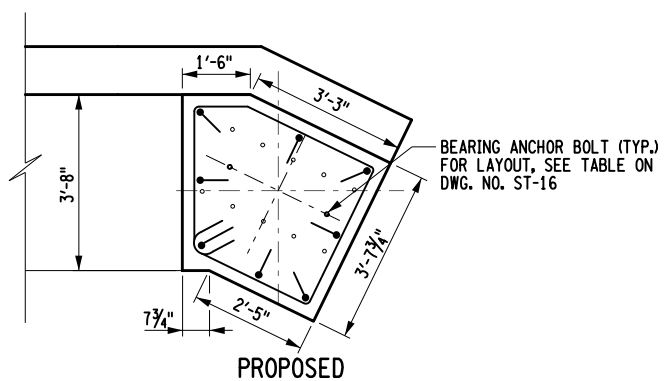
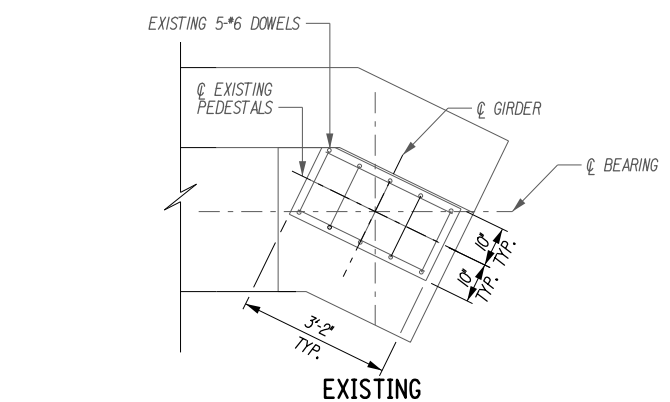
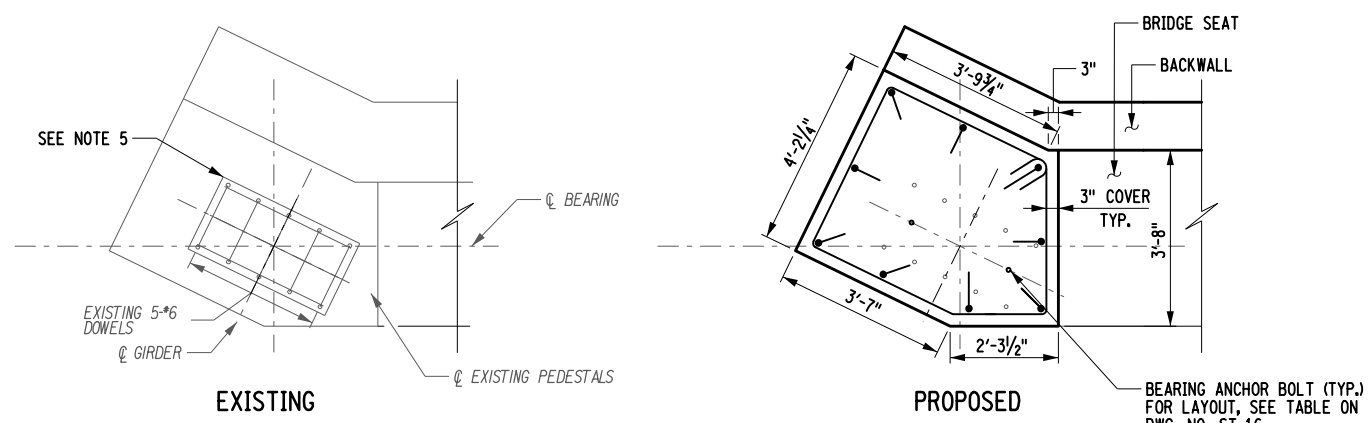
Thruway Authority

Engineering and Land Surveying, P.C.

TITLE OF PROJECT I-87 OVER WALLKILL RIVER BRIDGE REHABILITATION	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING PEDESTAL DETAILS - 1	DRAWING NUMBER: ST-23

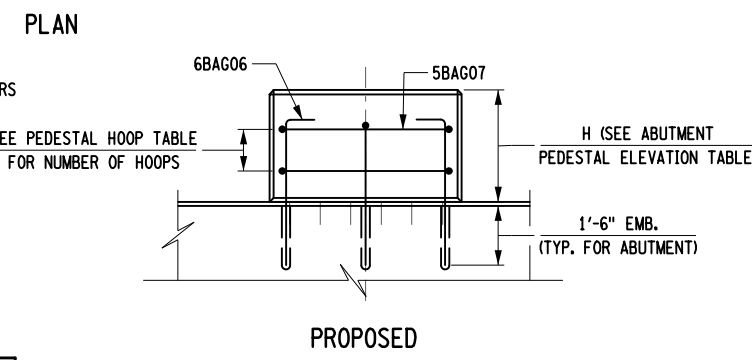
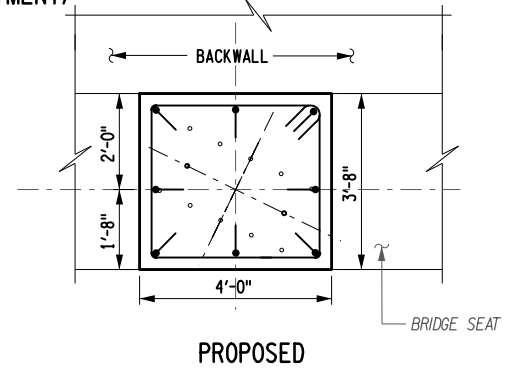
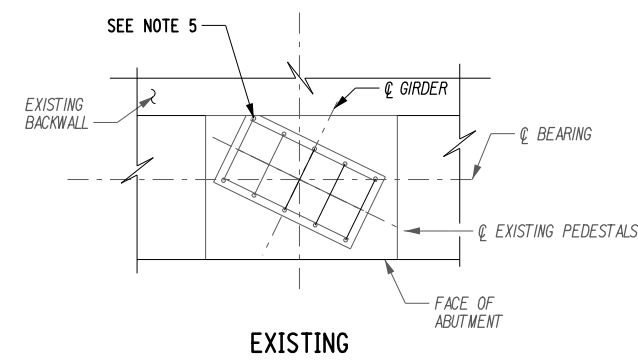
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 DRAFTING
 J.BOLGER
 CHECK
 Y.GAUCHAN
 DESIGN
 R.SHARMA
 DESIGN SUPERVISOR
 DATE/TIME = 1/24/2024
 Y.GAUCHAN
 CHECK
 B.VADDI/C.VOHRRA
 CHECK
 Y.GAUCHAN

THIS SHEET SUPERSEDES SHEET 65
IN ITS ENTIRETY



ELEVATION
G14 PEDESTAL (SOUTH ABUTMENT)

ELEVATION
G1 PEDESTAL (SOUTH ABUTMENT)



ELEVATION
G2 THROUGH G13 PEDESTAL (SOUTH ABUTMENT)

SOUTH ABUTMENT	ABUTMENT PEDESTAL ELEVATION (SEE NOTE 1 AND *)		PEDESTAL HEIGHT (IN) (SEE NOTE 2)
	EXISTING (FT)	PROPOSED (FT)	
G1	197.32	197.00	4.93
G2	197.47	197.14	6.61
G3	197.55	197.29	8.41
G4	197.44	197.24	7.81
G5	197.34	197.04	5.41
G6	197.12	196.85	3.13**
G7	196.99	196.66	0.85**
G8	196.97	196.60	0.13**
G9	197.04	196.75	1.93**
G10	197.17	196.89	3.61**
G11	197.30	197.04	5.41
G12	197.36	197.09	6.01
G13	197.22	196.90	3.73**
G14	197.04	196.70	1.33**

** THICKER MASONRY PLATE SHALL BE USED INSTEAD OF PEDESTAL WHERE PROPOSED PEDESTAL HEIGHT IS LESS THAN 4"

PEDESTAL HOOP TABLE	
PEDESTAL HEIGHT	NUMBER OF HOOPS
4" TO 8"	1
8" TO 11"	2
11" TO 14"	3
14" TO 17"	4
17" TO 20"	5
20" TO 23"	6
23" TO 26"	7
26" TO 29"	8

DRILLING AND GROUTING OF VERTICAL BARS (ITEM 586.0201)	
LOCATION	QUANTITY (EA)
SOUTH ABUTMENT PEDESTAL	113

- NOTES:**
- THE ELEVATION NOTED ON THIS DRAWINGS ARE BASED ON A FIELD SURVEY PERFORMED BY THE AUTHORITY IN SEPTEMBER 2022 AND CONFIRMED OCTOBER 2022. THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS AND ADJUST THE FINAL HEIGHTS OF THE PEDESTALS ACCORDINGLY.
 - AVAILABLE PEDESTAL HEIGHTS AT THE ABUTMENT SHALL BE ASSESSED PRIOR TO FINALIZING OVERALL HEIGHT OF E.B. TYPE BEARINGS.
 - CONSTRUCTION OF CONCRETE PEDESTALS SHALL NOT COMMENCE UNTIL BEARING SHOP DRAWING SUBMITTALS HAVE BEEN APPROVED.
 - SEE DWG. NO. ST-16 FOR SOUTH ABUTMENT ANCHOR BOLT LAYOUT DETAIL.
 - EXISTING CONCRETE TO BE COMPLETELY REMOVED (ITEM 580.01) AND CUT TOP OF DOWEL TO BRIDGE SEAT LEVEL (ITEM 580.01) TO INSTALL NEW PEDESTAL UNDER ITEM NO. 555.09.
 - ALL REINFORCEMENT SHOWN TO BE PAID FOR UNDER ITEM 556.0203 - GALVANIZED BAR REINFORCEMENT FOR STRUCTURES UNLESS OTHERWISE NOTED.
 - DRILLING AND GROUTING OF PROPOSED PEDESTAL DOWELS INTO EXISTING ABUTMENT SEAT SHALL BE PAID UNDER ITEM NO. 586.0201
 - THESE ELEVATIONS MAY HAVE TO BE ADJUSTED TO ACCOMMODATE THE ACTUAL BEARINGS FURNISHED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY CHANGES IN THE BEARINGS WHICH MAY AFFECT THE PEDESTAL ELEVATIONS.

ALTERED BY:
ON:

AFFIX SEAL: Yogendra Gauchan
ON: 01/24/2024

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



Thruway Authority

Engineering and Land Surveying, P.C.

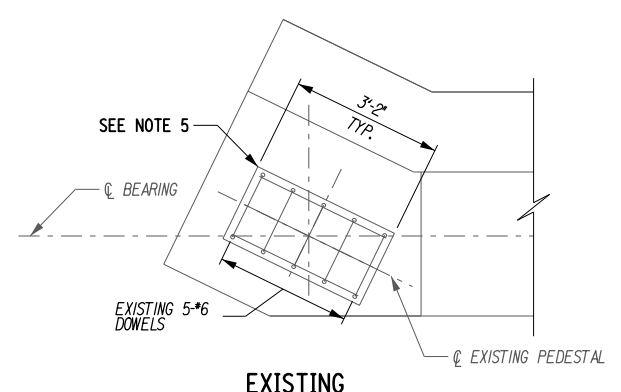
TITLE OF PROJECT I-87 OVER WALLKILL RIVER BRIDGE REHABILITATION	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING PEDESTAL DETAILS - 2	DRAWING NUMBER: ST-24

USER = KCEPC\jbolger
 J.BOLGER
 CHECK
 DRAFTING
 B.VADDI/C.VOHRRA
 CHECK
 Y.GAUCHAN
 DESIGN
 DATE/TIME = 1/24/2024
 R.SHARMA
 DESIGN SUPERVISOR
 Y.GAUCHAN
 CHECK
 B.VADDI/C.VOHRRA
 CHECK
 Y.GAUCHAN
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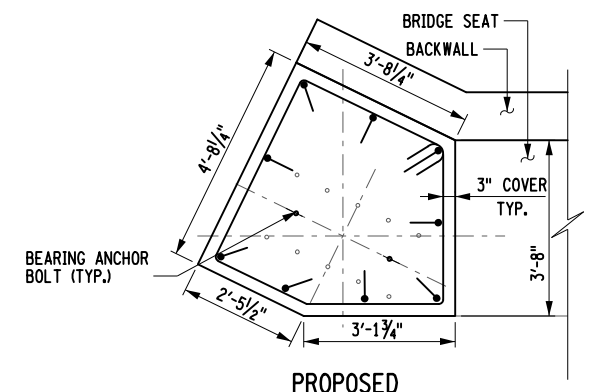
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B.VADDI/C.VOHRRA
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DESIGN
R.SHARMA
DESIGN SUPERVISOR

DATE/TIME = 1/24/2024

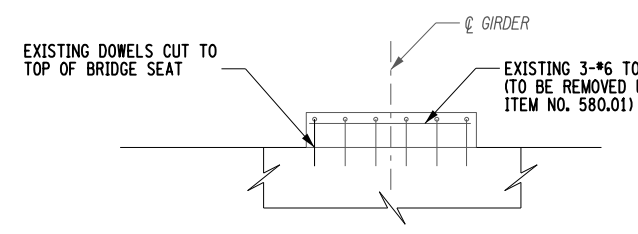
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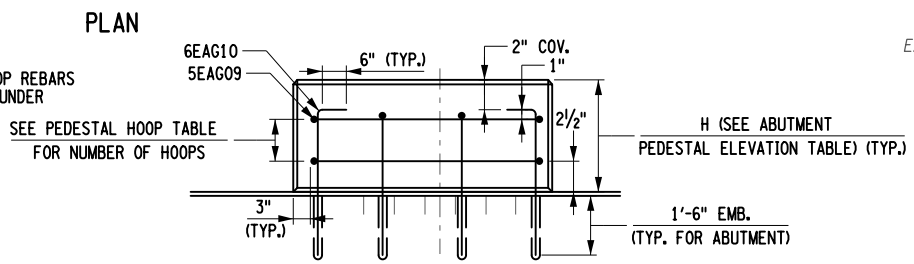
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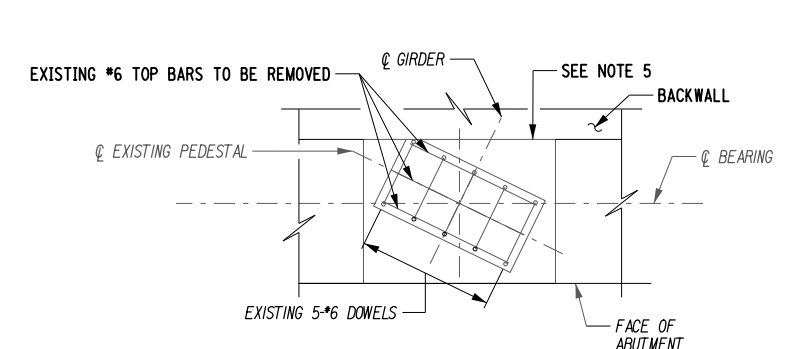


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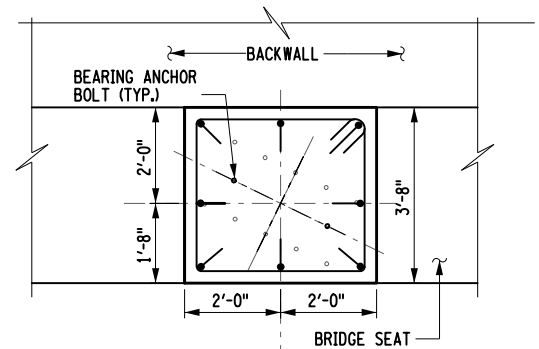


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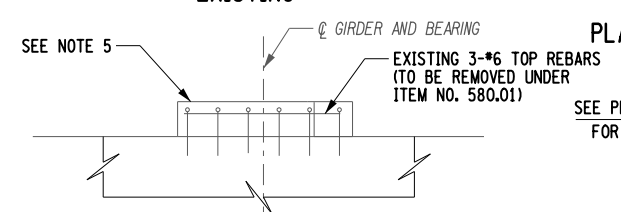
ELEVATION
G1 PEDESTAL (NORTH ABUTMENT)



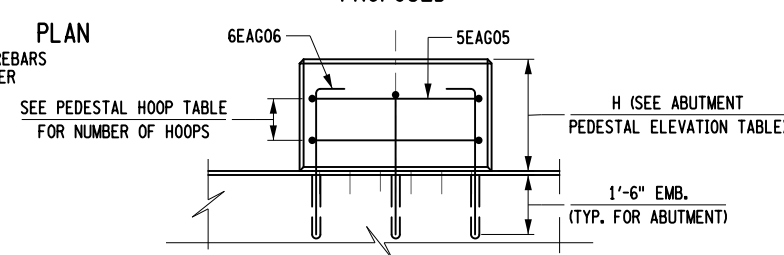
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PROPOSED

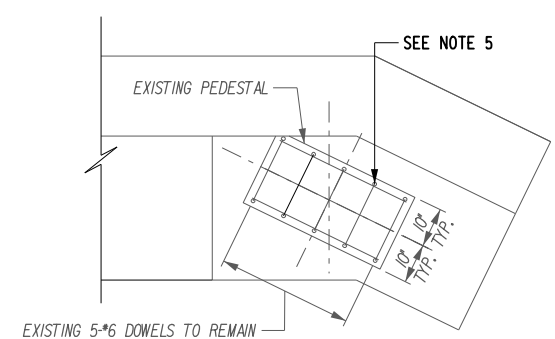


EXISTING

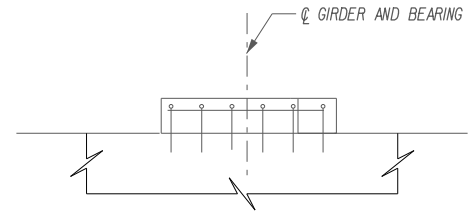


PROPOSED

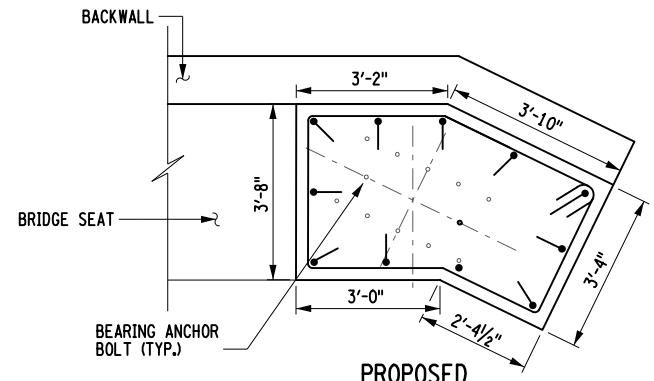
ELEVATION
G2 THROUGH G13 PEDESTAL (NORTH ABUTMENT)



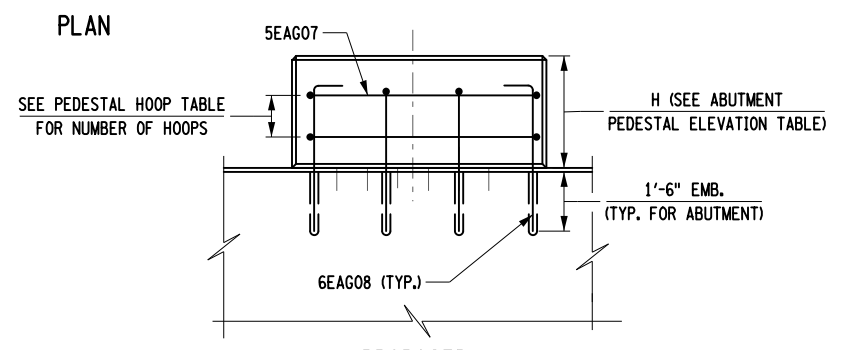
EXISTING



EXISTING



PROPOSED



PROPOSED

ELEVATION
G14 PEDESTAL (NORTH ABUTMENT)

PEDESTAL HEIGHT	NUMBER OF HOOPS
4" TO 8"	1
8" TO 11"	2
11" TO 14"	3
14" TO 17"	4
17" TO 20"	5
20" TO 23"	6
23" TO 26"	7
26" TO 29"	8

DRILLING AND GROUTING OF VERTICAL BARS (ITEM 586.0201)	
LOCATION	QUANTITY (EA)
NORTH ABUTMENT PEDESTAL	116

NORTH ABUTMENT	ABUTMENT PEDESTAL ELEVATION (SEE NOTE 1 AND *)		PEDESTAL HEIGHT (IN) (SEE NOTE 2)
	EXISTING (FT)	PROPOSED (FT)	
G1	195.20	195.37	11.08
G2	195.28	195.51	12.76
G3	195.41	195.66	14.56
G4	195.33	195.59	13.72
G5	195.16	195.39	11.32
G6	194.99	195.20	9.04
G7	194.87	195.01	6.76
G8	194.82	194.89	5.32
G9	194.91	195.03	7.00
G10	195.03	195.17	8.68
G11	195.16	195.32	10.48
G12	195.24	195.38	11.20
G13	195.08	195.19	8.92
G14	194.91	194.99	6.52

NOTES:

- THE ELEVATION NOTED ON THIS DRAWINGS ARE BASED ON A FIELD SURVEY PERFORMED BY THE AUTHORITY IN SEPTEMBER 2022 AND CONFIRMED OCTOBER 2022. THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS AND ADJUST THE FINAL HEIGHTS OF THE PEDESTALS ACCORDINGLY.
- AVAILABLE PEDESTAL HEIGHTS AT THE ABUTMENT SHALL BE ASSESSED PRIOR TO FINALIZING OVERALL HEIGHT OF E.B. TYPE BEARINGS.
- CONSTRUCTION OF CONCRETE PEDESTALS SHALL NOT COMMENCE UNTIL BEARING SHOP DRAWING SUBMITTALS HAVE BEEN APPROVED.
- SEE DWG. NO. ST-22 FOR NORTH ABUTMENT ANCHOR BOLT LAYOUT DETAIL.
- EXISTING CONCRETE TO BE COMPLETELY REMOVED (ITEM 580.01) AND CUT TOP OF DOWEL TO BRIDGE SEAT LEVEL (ITEM 580.01) TO INSTALL NEW PEDESTAL UNDER ITEM NO.555.09.
- ALL REINFORCEMENT SHOWN TO BE PAID FOR UNDER ITEM 556.0203 - GALVANIZED BAR REINFORCEMENT FOR STRUCTURES UNLESS OTHERWISE NOTED.
- DRILLING AND GROUTING OF PROPOSED PEDESTAL DOWELS INTO EXISTING ABUTMENT SEAT SHALL BE PAID UNDER ITEM NO. 586.0201.
- THESE ELEVATIONS MAY HAVE TO BE ADJUSTED TO ACCOMMODATE THE ACTUAL BEARINGS FURNISHED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY CHANGES IN THE BEARINGS WHICH MAY AFFECT THE PEDESTAL ELEVATIONS.

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



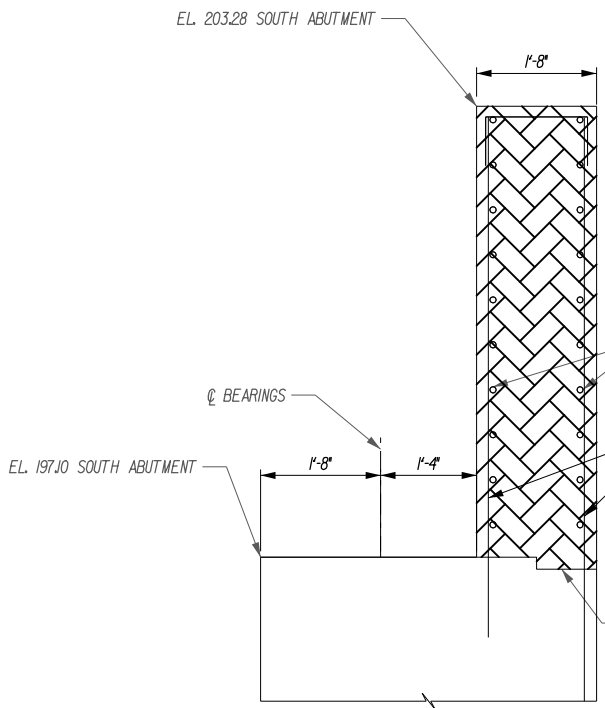
TITLE OF PROJECT I-87 OVER WALLKILL RIVER BRIDGE REHABILITATION	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING PEDESTAL DETAILS - 3	DRAWING NUMBER: ST-25



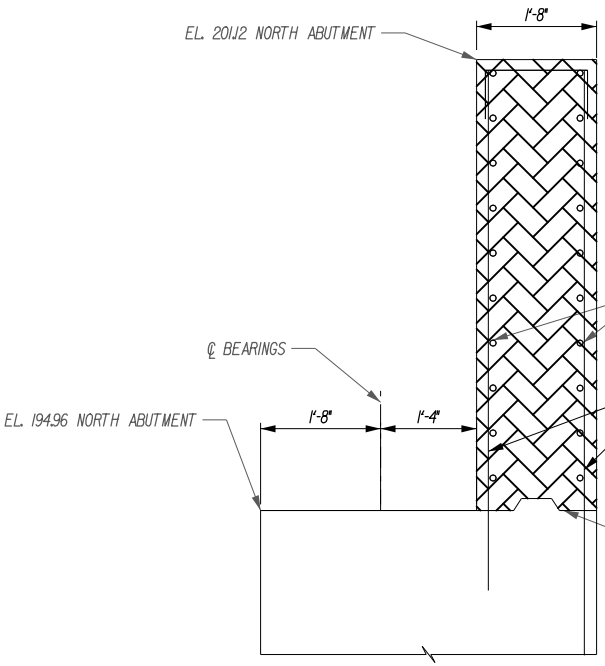
ALTERED BY:
ON:

AFFIX SEAL: Yogendra Gauchan
ON: 01/24/2024

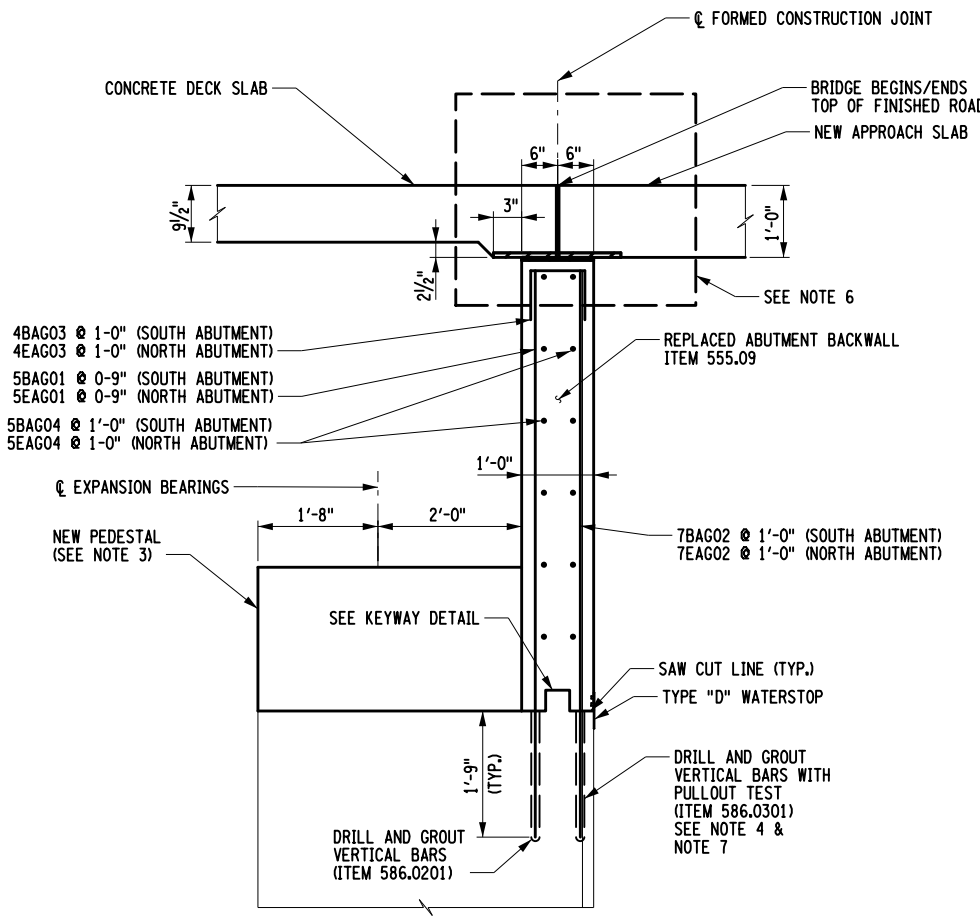
THIS SHEET SUPERSEDES SHEET 67 IN ITS ENTIRETY



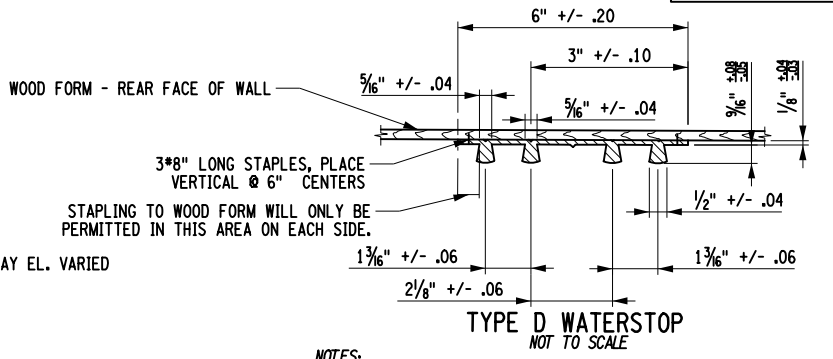
EXISTING SOUTH ABUTMENT BACKWALL SECTION



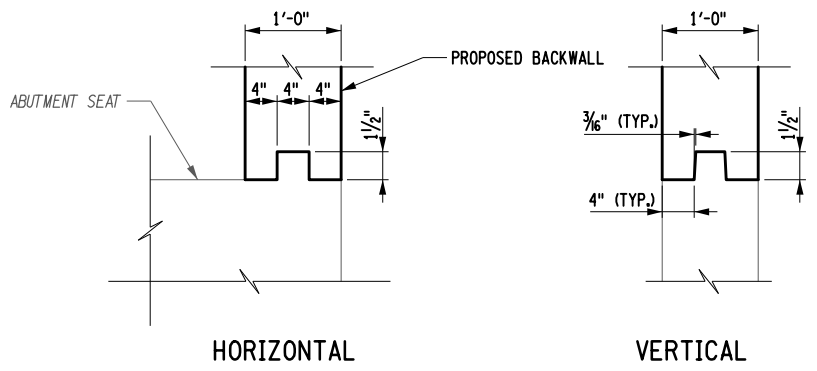
EXISTING NORTH ABUTMENT BACKWALL SECTION



PROPOSED ABUTMENT BACKWALL SECTION SECTION A-A/ SECTION B-B



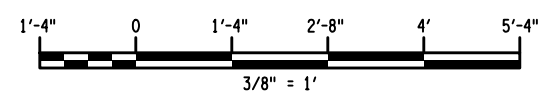
NOTES:
HOLES MUST NOT BE MADE IN WATERSTOP FOR ANY PURPOSE EXCEPT AS REQUIRED FOR STAPLING TO FORMS.
TYPE D WATERSTOP SHALL BE LIGHT GRAY IN COLOR.



KEYWAY DETAIL (WATERSTOP NOT SHOWN)

- NOTES:**
- ALL REINFORCEMENT SHOWN TO BE PAID FOR UNDER ITEM 556.0203 - GALVANIZED BAR REINFORCEMENT FOR STRUCTURES UNLESS OTHERWISE NOTED.
 - FOR ABUTMENT REINFORCING PLANS AND ELEVATIONS, SEE DWG. ST-15, ST-21.
 - FOR NEW PEDESTAL DETAILS AND ELEVATIONS, SEE DWG. ST-23, ST-24, ST-25.
 - NEW DRILL AND GROUT VERTICAL REINFORCEMENT AT REAR FACE SHALL BE PLACED BETWEEN EXISTING VERTICAL BARS.
 - ALL REINFORCEMENT SHALL HAVE 2" COVER UNLESS OTHERWISE NOTED.
 - SEE JOINTLESS ABUTMENT DETAIL ON DWG. ST-45.
 - THE EMBEDMENT DEPTH SHOWN IN THE PLANS FOR DRILLING AND GROUTING IS FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR'S ENGINEER SHALL DETERMINE THE DEVELOPMENT LENGTH REQUIRED TO DEVELOP THE FULL STRENGTH OF ANCHOR ROD AND/OR REINFORCING BAR. THE CALCULATIONS SHALL BE BASED ON THE SIZE OF THE ROD/BARS, ESTIMATED CONCRETE STRENGTH, AND THE GROUT SUPPLIERS' RECOMMENDATIONS. THE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS AND DETAILS SEALED BY A REGISTERED NEW YORK STATE PROFESSIONAL ENGINEER TO THE ENGINEER FOR APPROVAL.

LEGEND:
 ITEM 580.01 REMOVAL OF STRUCTURAL CONCRETE



USER = KCEPC\jbolger
 DATE/TIME = 1/24/2024
 DESIGN SUPERVISOR: R.SHARMA
 DESIGN: Y.GAUCHAN
 CHECK: J.BOLGER
 DRAFTING: B.VADDI/C.VOHRRA
 CHECK: Y.GAUCHAN

ALTERED BY: ON:
 AFFIX SEAL: John Bolger ON: 01/24/2024

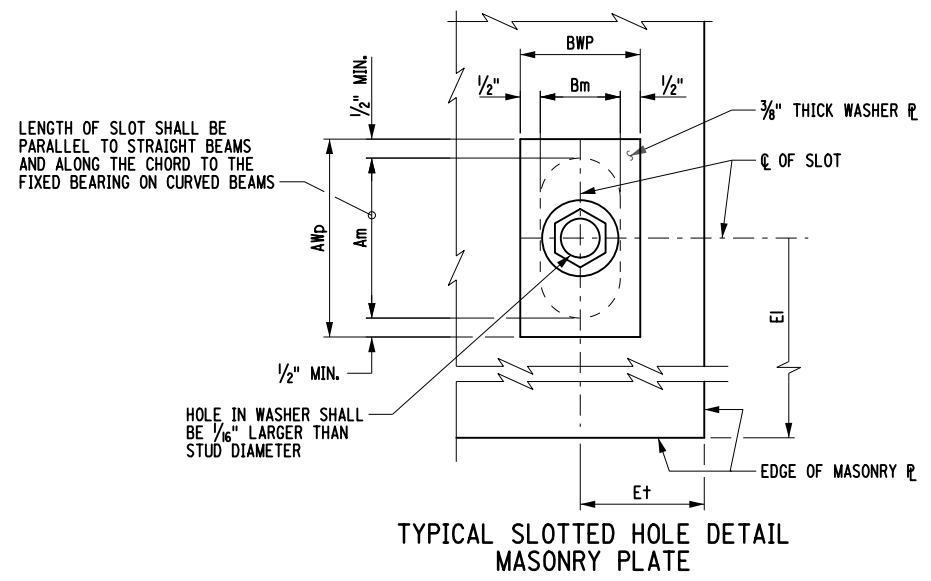
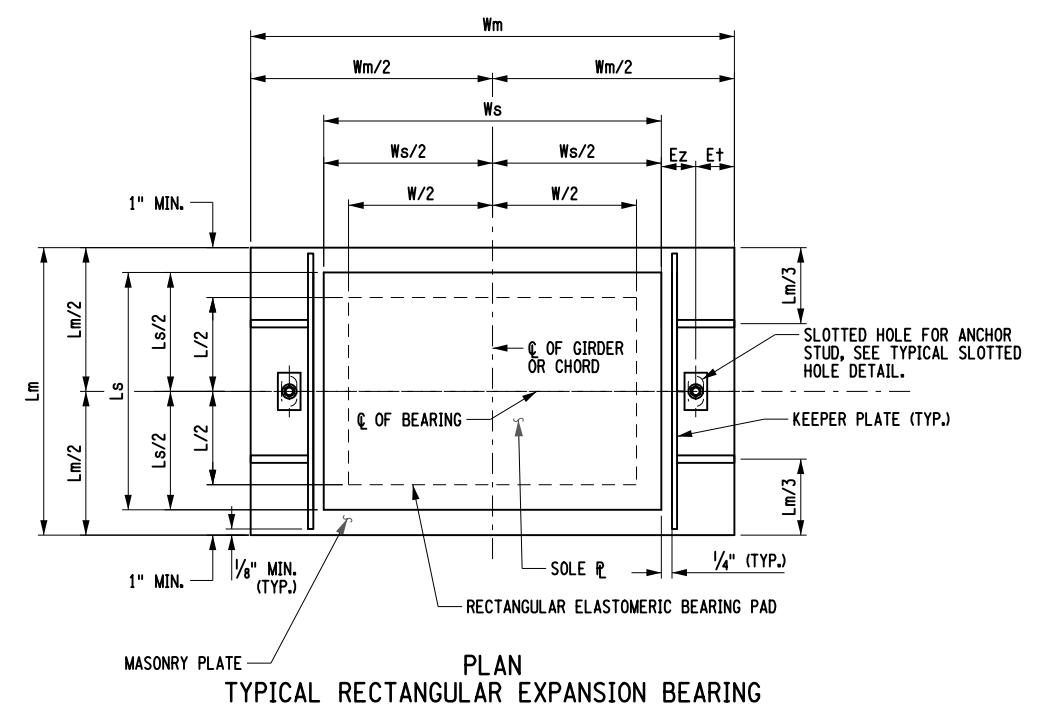
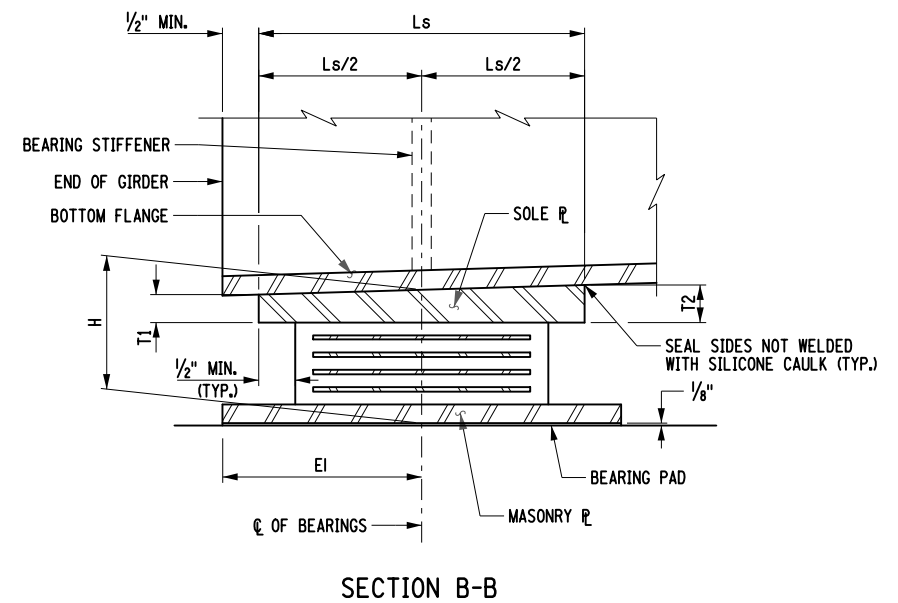
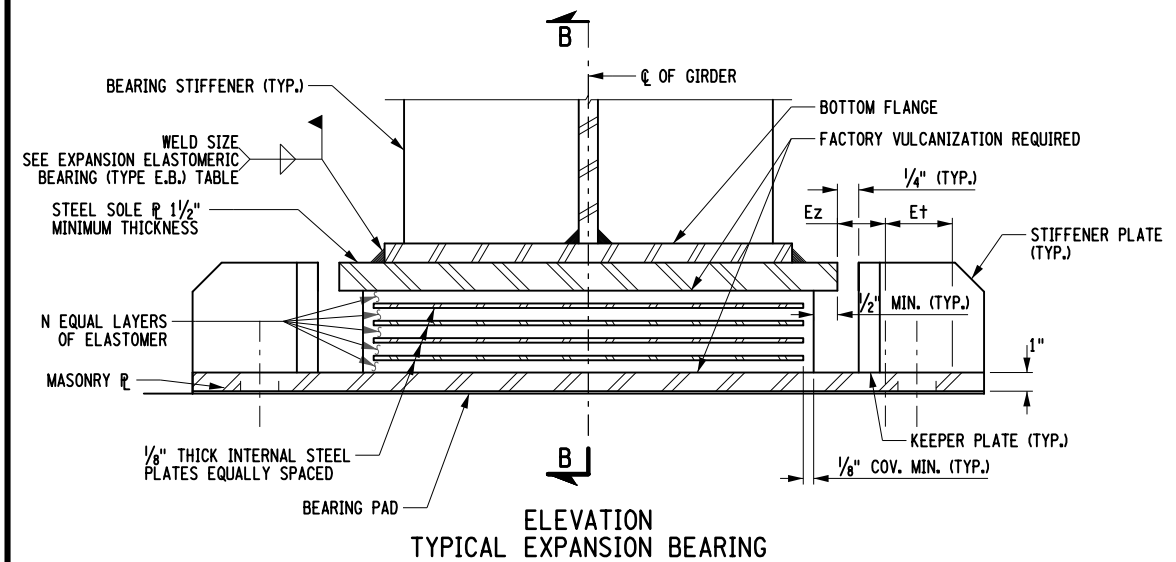
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

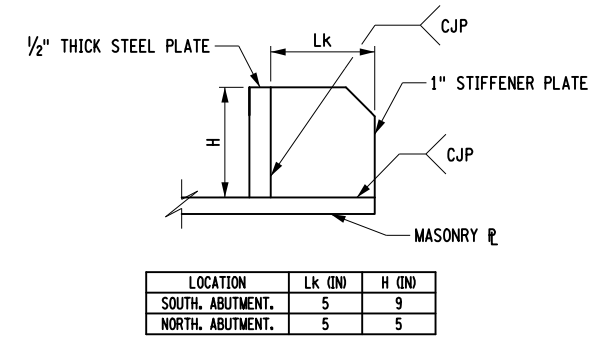
Thruway Authority

Engineering and Land Surveying, P.C.

TITLE OF PROJECT I-87 OVER WALLKILL RIVER BRIDGE REHABILITATION	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING PROPOSED BACKWALL SECTIONS	DRAWING NUMBER: ST - 26



- NOTES:**
1. THE BEARINGS SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 565 UNLESS OTHERWISE NOTED.
 2. ALL ELASTOMER SHALL BE 50 DUROMETER HARDNESS ON THE SHORE A SCALE.
 3. ALL STEEL EXCEPT THE INTERNAL STEEL PLATES SHALL CONFORM TO ASTM A709, GR. 50, UNLESS OTHERWISE NOTED.
 4. BEARING PADS SHALL CONFORM TO ONE OF THE FOLLOWING MATERIAL SPECIFICATIONS: 728-01, 728-02 OR 728-03.
 5. INSTALLATION ALIGNMENT: THE MAXIMUM VARIATION FROM PERFECT ALIGNMENT UNDER FULL DEAD LOAD SHALL NOT EXCEED 3/16". THIS VARIATION SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CENTERLINE OF THE HIGHEST ELASTOMER SURFACE AND THE CENTERLINE OF THE LOWEST ELASTOMER SURFACE.
 6. CONCRETE SURFACES UNDER THE BEARINGS SHALL CONFORM TO SUBSECTION 565-3.02 "CONCRETE BEARING SURFACE PREPARATION" OF THE NEW YORK STATE STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS.
 7. THE BEARING PAD, ANCHOR STUDS WASHER PLATES AND NUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.
 8. IF THE ANCHOR STUDS ARE SET UNDER THE SOLE PLATE, A MINIMUM CLEARANCE EQUAL TO TWO TIMES THE THICKNESS OF ANCHOR NUT PLUS 1" SHALL BE MAINTAINED BETWEEN THE TOP OF MASONRY PLATE AND BOTTOM OF SOLE PLATE.
 9. T2 IS UPSTATION OF T1.
 10. TABLE DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
 11. LOADS SHOWN IN THIS TABLE ARE UNFACTORED.
 12. FOR PEDESTAL REINFORCEMENT DETAILS, SEE DWG. NO'S. ST-23, ST-24, ST-25.
 13. FOR ANCHOR STUD LAYOUT DETAILS, SEE DWG. NO'S ST-16 AND ST-22.
 14. KEEPER PLATE HEIGHT TO BE DETERMINED BASED ON CLEARANCE TO ALLOW FOR ANCHOR BOLT INSTALL.



EXPANSION ELASTOMERIC BEARING (TYPE E.B.) TABLE

LOCATION	ITEM NO.	QUANTITY REQUIRED	D.L. + S.D.L (kips)	L.L. WITHOUT IMPACT (kips)	TOTAL DESIGN REACTION (kips)	KEEPER LOAD (kips)	SHAPE FACTOR	ELASTOMER LAYER					HRT	COMP. AREA (SQ. IN.)	SHEAR AREA (SQ. IN.)	MASONRY PLATE						ANCHOR STUDS		WELD SIZE	WASHER PLATE		SOLE PLATE				BRG. H	
								THK/LAYER	NO. LAYERS	L	W	D				Wm	Lm	Tm	E+	E1	Ez	Am	Bm		DIA.	STUDS/BRG.	AWp	BWp	Ws	LS		T1
SOUTH. ABUTMENT.	565.2034	14	119	83	202	53	11.74	0.5	12	23	24	6	540	552	37	25	1	4.5	12.5	1.5	2.5	1.375	1	2	5/16	3.5	2.375	25	24	1.644	1.5	9.947
NORTH. ABUTMENT.	565.2034	14	122	85	206	53	8.24	0.5	4	14	20	2	272	280	37	16	1	5	8	2.5	2.5	1.375	1	2	5/16	3.5	2.375	23	15	1.5	1.5	4.875

ALTERED BY:
ON:

AFFIX SEAL: John Bolger
ON: 01/24/2024

* THE THICKNESS OF MASONRY PLATE WILL NEED TO BE MODIFIED WHERE PEDESTAL HEIGHT IS LESS THAN 4". SEE DWG. ST-24 FOR GIRDER LOCATION.

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REVISIONS

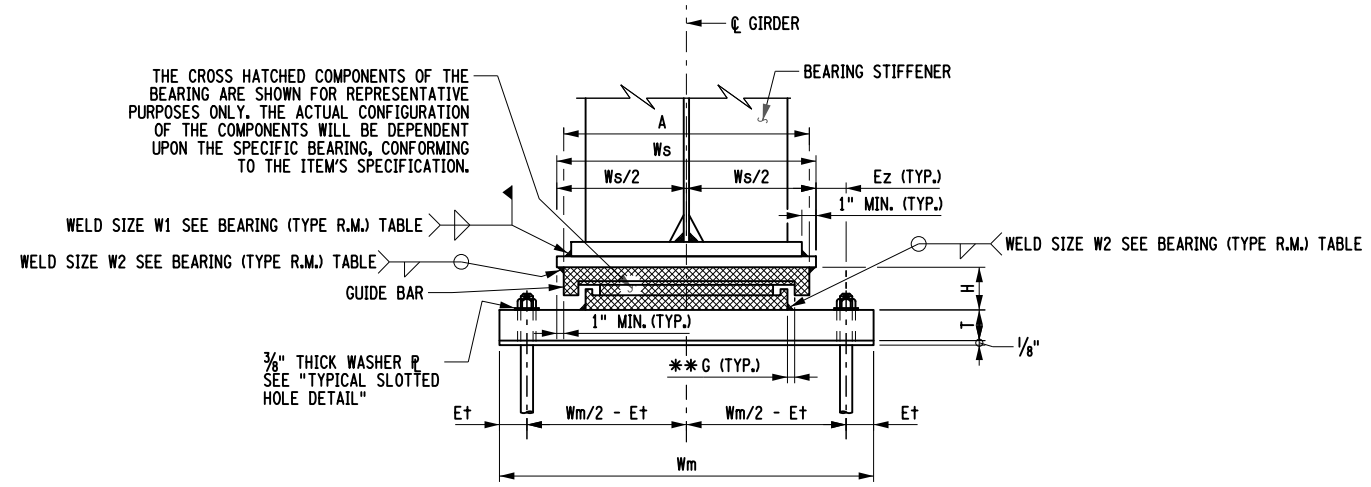
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE OF OPPORTUNITY

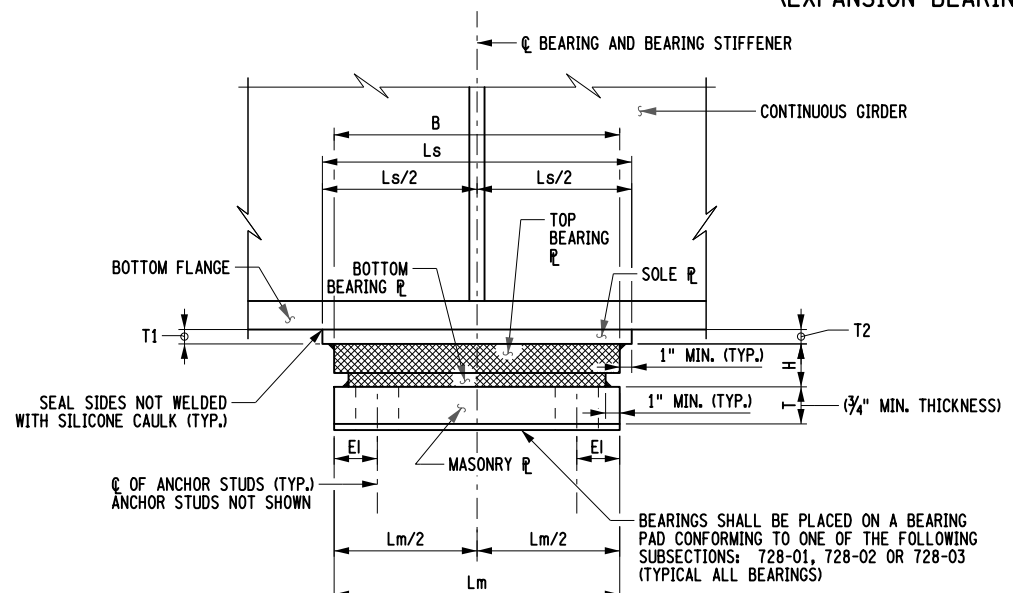
Thruway Authority

Engineering and Land Surveying, P.C.

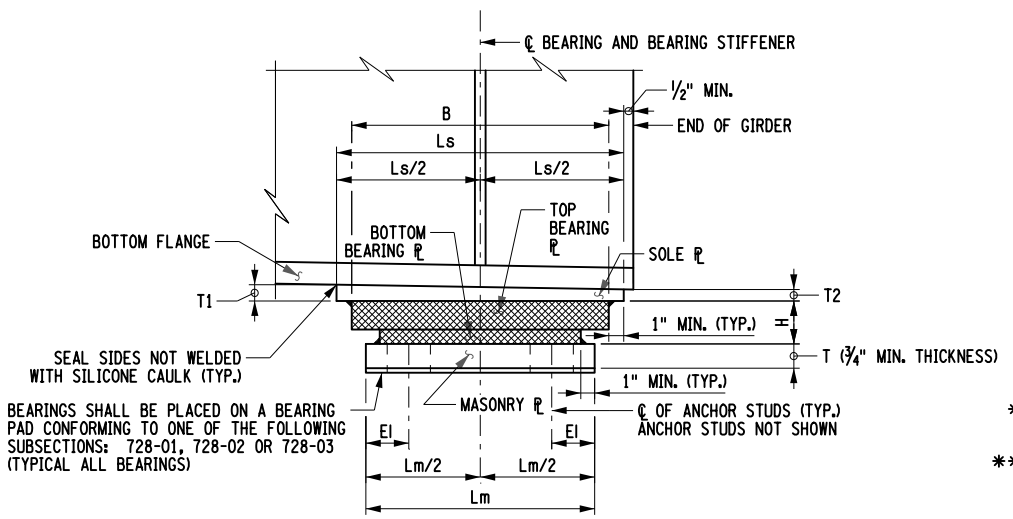
TITLE OF PROJECT I-87 OVER WALLKILL RIVER BRIDGE REHABILITATION	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING EXPANSION ELASTOMERIC BEARING DETAILS	DRAWING NUMBER: ST-28



FRONT VIEW WITH ANCHOR STUDS OUTSIDE OF SOLE PLATE (EXPANSION BEARING SHOWN FIXED BEARING SIMILAR)



SIDE VIEW AT AN INTERIOR SUPPORT (EXPANSION BEARING SHOWN FIXED BEARING SIMILAR)



SIDE VIEW AT AN END SUPPORT (EXPANSION BEARING SHOWN FIXED BEARING SIMILAR)

- NOTES:**
- THE BEARING DEVICE SUPPLIED SHALL BE CAPABLE OF TRANSMITTING THE LOADS AND MOVEMENT SHOWN ON THESE PLANS.
 - THE DIMENSION "H" IN THE BEARING TABLE REPRESENTS THE ASSUMED TOTAL HEIGHT OF BEARING MECHANISM BETWEEN THE SOLE PLATE AND MASONRY PLATE USED BY THE DESIGNER TO ESTABLISH THE PEDESTAL ELEVATIONS. THE MINIMUM PEDESTAL HEIGHT SHALL NOT BE CHANGED WITHOUT WRITTEN APPROVAL OF THE DEPUTY CHIEF ENGINEER (STRUCTURES).
 - ALL STEEL SHALL CONFORM TO ASTM A709, GR. 50.
 - ALL STEEL FABRICATION SHALL CONFORM TO THE PROVISIONS OF THE LATEST EDITION OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.
 - ALL METAL COMPONENTS OF THE BEARING SYSTEM WHICH ARE LIABLE TO COME INTO CONTACT DURING TRANSLATION SHALL HAVE A TEFLON SLIDING SURFACE FINISH.
 - ALL EXPANSION BEARINGS SHALL HAVE A MAXIMUM FRICTION COEFFICIENT OF 3%.
 - THE BEARING DEVICE, MASONRY PLATE, SOLE PLATE, ANCHOR STUDS, NUTS, WASHER PLATES, AND BEARING PAD SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEMS.
 - IF THE ANCHOR STUDS ARE SET UNDER THE SOLE PLATE, A MINIMUM CLEARANCE EQUAL TO TWO TIMES THE THICKNESS OF ANCHOR NUT PLUS 1" SHALL BE MAINTAINED BETWEEN THE TOP OF MASONRY PLATE AND BOTTOM OF THE SOLE PLATE.
 - FOR BEARINGS OF CAPACITY ≥ 500 kips, USE $\frac{3}{16}$ " MINIMUM BEARING PAD IN LIEU OF $\frac{1}{8}$ ".
 - WHEN THE THICKNESS OF THE MASONRY PLATE OR ANY OTHER PLATE BEING WELDED EXCEEDS $\frac{1}{2}$ ", THE PLATES SHALL BE PREHEATED IN ACCORDANCE WITH THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.
 - THE DIMENSIONS "A AND B" IN THE BEARING TABLE REPRESENT THE ASSUMED LOAD PLATE DIMENSIONS USED BY THE DESIGNER TO SIZE THE SOLE PLATE AND MASONRY PLATE.
 - FOR PEDESTAL REINFORCEMENT DETAILS, SEE DWG. NO ST-23.
 - FOR ANCHOR STUD LAYOUT DETAILS, SEE ST-18 AND ST-20.
- * WHENEVER JACKING OF THE SUPERSTRUCTURE IS REQUIRED TO RESET THE BEARINGS, THE CONTRACTOR SHALL SUBMIT A JACKING PROCEDURE TO THE E.I.C. FOR APPROVAL.
- ** ONE WAY LONGITUDINAL MOVEMENT IS THE MAXIMUM ONE-WAY MOVEMENT (EXPANSION OR CONTRACTION) OF THE SUPERSTRUCTURE WHEN BEARINGS ARE SET AT 68°F PLUS 1 INCH OF TOLERANCE.
- *** ON WIDE STRUCTURES AND ON CURVED STRUCTURES PROVISIONS SHALL BE MADE FOR LIMITED LATERAL MOVEMENT.
- MAXIMUM (ABSOLUTE) DUE TO LL+I ONLY. BEVELED SOLE PLATES ACCOUNT FOR GRADE & DL EFFECTS. BEARING DESIGN SHOULD ACCOUNT FOR GRADE EFFECTS WHEN SOLE PLATES ARE NOT BEVELED.

BEARING (TYPE R.M.) TABLE

LOCATION	FIX./EXP.	ITEM NO.	QUANTITY REQUIRED	DESIGN LOADS									*ONE WAY MOVEMENT	** (G) GUIDE CLEARANCE	MASONRY PLATE				WASHER PLATE		SOLE PLATE		LOAD PLATE		BRG. H	ANCHOR STUDS		WELD SIZE			
				VERTICAL (SERVICE)			STRENGTH			Lm	Wm	Tm			ET	EI	Am	Bm	AWp	BWp	Ls	Ws	T1	T2		A	B	DIA.	STUDS/BRG.	W1	W2
				DC	DW	LL+IM	VERT.	HORIZ.	ROTATION (RAD)***																						
PIER. 1	EXP.	565.1523	14	322	27.5	226	840	125	2.529	0.379	23.375	33.25	1.625	2	3.25	2.5	1.375	3.5	2.375	25.875	28.5	0.905	0.75	26.5	22.75	8.25	1	4	5/16	5/16	
PIER. 2	FIX.	565.1723	14	322	27.5	226	840	125	-	-	23.375	28.125	1	2	3.25	2.5	1.375	3.5	2.375	19	24	0.875	0.875	17	17	4.75	1	4	5/16	5/16	

ALTERED BY:
ON:

AFFIX SEAL: John Bolger
ON: 01/24/2024

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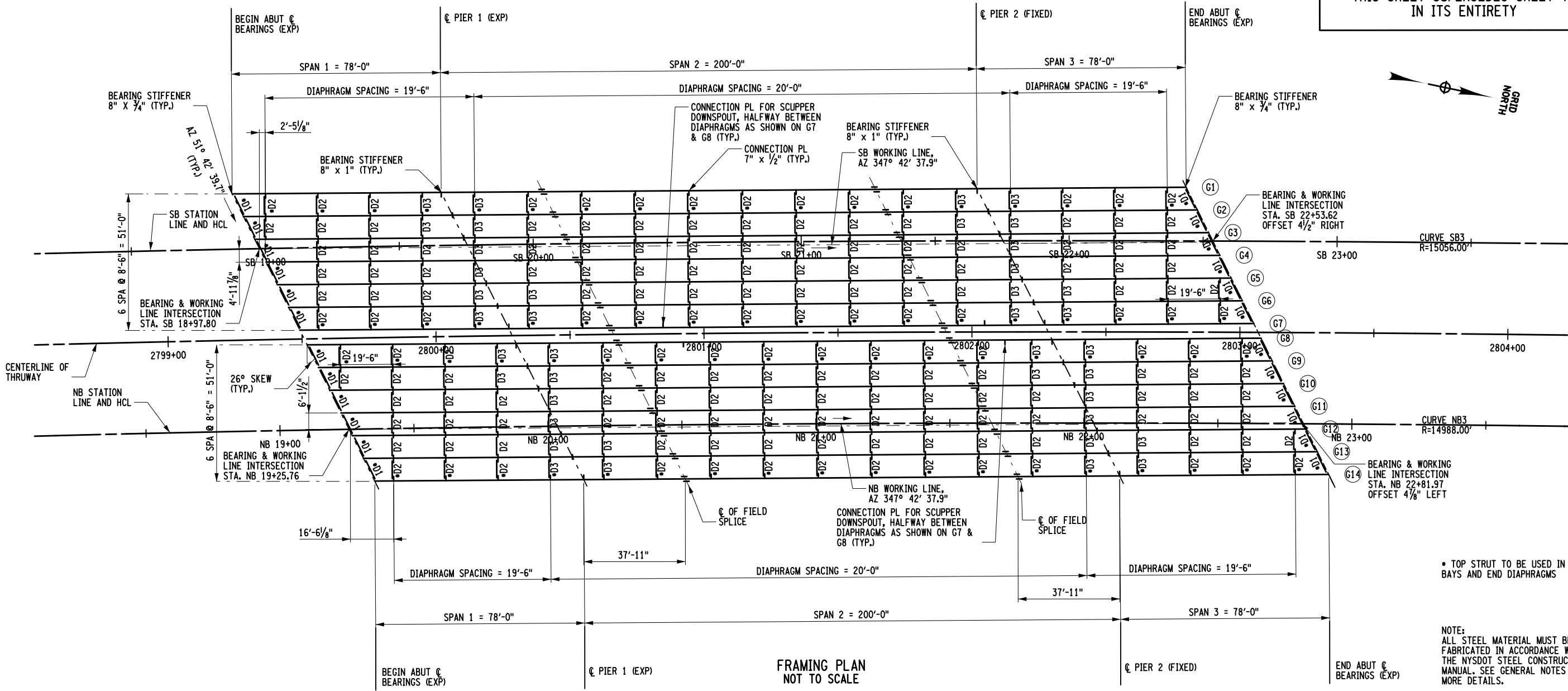
REVISIONS			
DATE	DESCRIPTION	BY	SYM.

Thruway Authority

Engineering and Land Surveying, P.C.

TITLE OF PROJECT I-87 OVER WALLKILL RIVER BRIDGE REHABILITATION	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING MULTI-ROTATIONAL BEARING DETAILS (2 OF 2)	DRAWING NUMBER: ST-30

THIS SHEET SUPERSEDES SHEET 74
IN ITS ENTIRETY

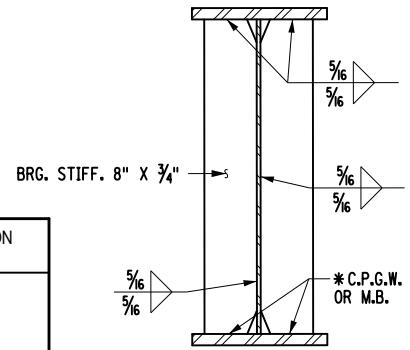


FRAMING PLAN
NOT TO SCALE

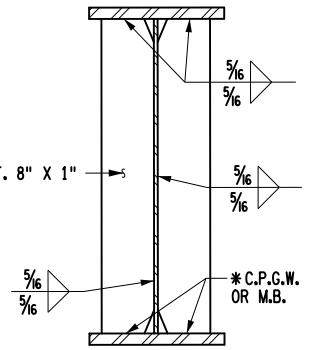
* TOP STRUT TO BE USED IN FASCIA
BAYS AND END DIAPHRAGMS

NOTE:
ALL STEEL MATERIAL MUST BE
FABRICATED IN ACCORDANCE WITH
THE NYS DOT STEEL CONSTRUCTION
MANUAL. SEE GENERAL NOTES FOR
MORE DETAILS.

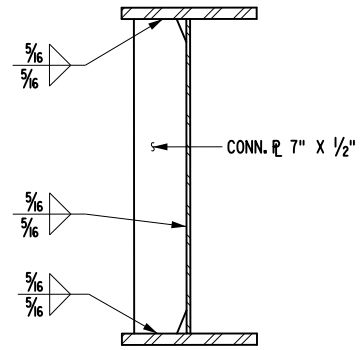
ERECTION NOTE:
A SINGLE GIRDER PLACED BETWEEN THE SPLICES IN
SPAN 2 WILL BE UNSTABLE DUE TO THE LONG UNBRACED
LENGTH. THE CONTRACTOR MUST PROVIDE SUPPORT OF
THE GIRDER EITHER BY PICKING TWO GIRDERS AT A TIME
OR BRACING A GIRDER FROM ANOTHER ADJACENT GIRDER.
THE CONTRACTOR MUST PROVIDE HOW THE GIRDER WILL
BE STABILIZED IN THEIR ERECTION PLAN SUBMITTAL.



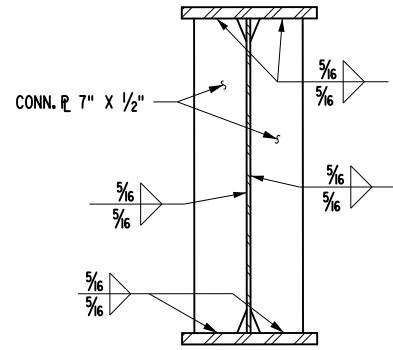
BEARING STIFFENER
AT ABUTMENT



BEARING STIFFENER
AT PIER



FASCIA GIRDER CONNECTION



INTERIOR GIRDER CONNECTION

NOTES:
* C.P.G.W. = COMPLETE PENETRATION GROOVE WELD
* M.B. = MILL TO BEAR

ALTERED BY:
ON:

AFFIX SEAL: RYAN DOUGLAS HENDERSON
ON: 01/24/2024



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE
DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE
ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING
THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER,
ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT
AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE
DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING FRAMING PLAN	DRAWING NUMBER: ST-33

USER = BENTLEYHOSTING\jmt\p\1105014
 DATE/TIME = 1/24/2024
 R. HENDERSON
 DESIGN SUPERVISOR

CHECK

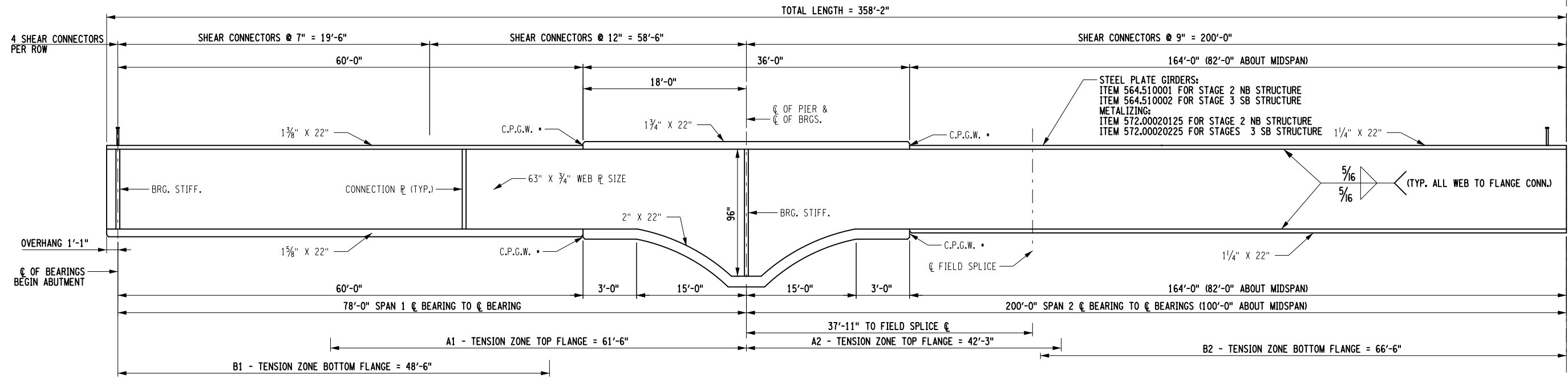
DRAFTING

CHECK

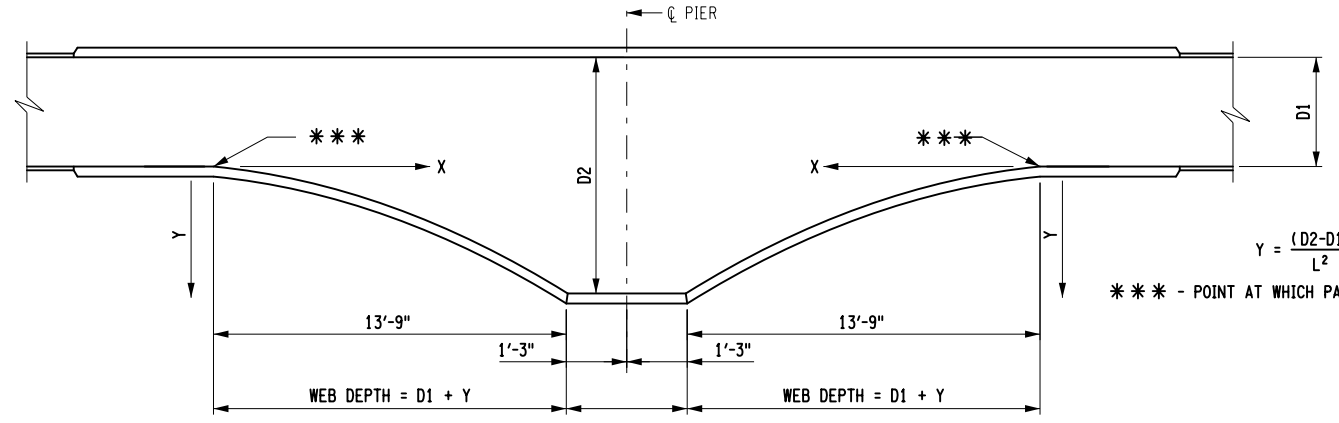
DESIGN

THIS SHEET SUPERSEDES SHEET 75
IN ITS ENTIRETY

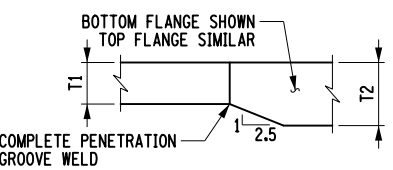
GIRDER SYMMETRIC
ABOUT MIDSPAN



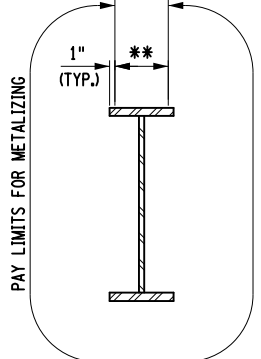
TYPICAL GIRDER ELEVATION
NOT TO SCALE



GIRDER HAUNCH DETAIL
NOT TO SCALE



FLANGE THICKNESS TAPER



METALIZING LIMITS
NOT TO SCALE

** COAT THIS AREA WITH AN ORGANIC ZINC PRIMER CONFORMING TO NYS DOT MATERIAL SPECIFICATION 708-01 OR 708-02. PRIME COAT SHALL BE APPLIED AT A THICKNESS BETWEEN 0.5 AND 1.5 MILS. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR THE METALIZING ITEM.

ALL COSTS FOR BOLTS, NUTS, AND WASHERS SHALL BE INCLUDED IN THE PRICE BID FOR STRUCTURAL STEEL.

- NOTES:
- C.P.G.W. = COMPLETE PENETRATION GROOVE WELD
 - FOR FRAMING PLAN SEE DRAWING ST-33.
 - UNLESS SHOWN IN DETAILS, THERE SHALL BE NO WELDING WITHIN THE TENSION ZONES. THE ATTACHMENT OF THE FORMING DEVICES OR OTHER CONSTRUCTION AIDS BY WELDING WITHIN THE TENSION AREA SHOWN IS PROHIBITED.
 - NO WELDING IS ALLOWED IN GIRDER TENSION ZONES. FOR FORMING DEVICES, IN AREAS WHERE WELDING IS ALLOWED, METALIZING TO BE REMOVED PRIOR TO WELDING.
 - THE ENDS OF ALL GIRDERS AND THE BEARING STIFFENERS SHALL BE VERTICAL UNDER FULL DEAD LOAD. ALL CONNECTION PLATES AND INTERMEDIATE STIFFENERS MAY BE PERPENDICULAR TO THE TOP FLANGES.
 - DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

USER = BENTLEYHOSTING\jmtw11res01\$

DATE/TIME = 1/24/2024

DESIGN SUPERVISOR
R. HENDERSON

ALTERED BY:
ON:

AFFIX SEAL: RYAN DOUGLAS HENDERSON
ON: 01/24/2024



NOT TO SCALE

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

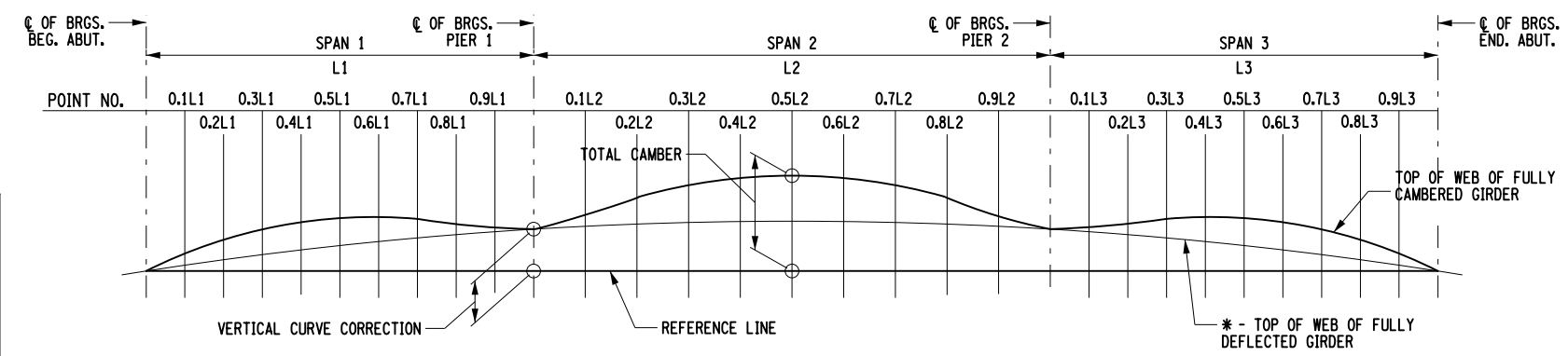
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALKKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING GIRDER DETAILS	DRAWING NUMBER: ST-34

THIS SHEET SUPERSEDES SHEET 82
IN ITS ENTIRETY

GIRDER	CAMBER TABLE	CL OF BRGS. BEG. ABUT.	SPAN 1									CL OF BRGS. PIER 1	SPAN 2									CL OF BRGS. PIER 2	SPAN 3									CL OF BRGS. END ABUT.
			0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1		0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1		0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	
GIRDER 8	I. STEEL D.L. (ft)	0.000	-0.005	-0.005	-0.010	-0.010	-0.015	-0.015	-0.015	-0.010	-0.005	0.000	0.025	0.065	0.105	0.130	0.140	0.130	0.105	0.065	0.025	0.000	-0.005	-0.010	-0.015	-0.015	-0.015	-0.010	-0.010	-0.005	-0.005	0.000
	I.A. STEEL + CONC. COUNTER D.L. (ft)	0.000	0.005	0.010	0.010	0.010	0.005	0.005	0.000	0.000	0.000	0.000	0.015	0.045	0.075	0.100	0.105	0.100	0.075	0.045	0.015	0.000	0.000	0.000	0.000	0.005	0.005	0.010	0.010	0.010	0.005	0.000
	II. CONCRETE D.L. (ft)	0.000	0.000	-0.005	-0.010	-0.015	-0.025	-0.030	-0.030	-0.025	-0.015	0.000	0.060	0.155	0.250	0.320	0.345	0.320	0.250	0.155	0.060	0.000	-0.015	-0.025	-0.030	-0.030	-0.025	-0.015	-0.010	-0.005	0.000	0.000
	III. SUPERIMPOSED D.L. (ft)	0.000	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.010	-0.010	-0.005	0.000	0.020	0.040	0.065	0.080	0.085	0.080	0.065	0.040	0.020	0.000	-0.005	-0.010	-0.010	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	0.000
	IV. VERTICAL CURVE (ft)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	TOTAL = I+II+III+IV (ft)	0.000	-0.020	-0.025	-0.035	-0.045	-0.050	-0.055	-0.055	-0.045	-0.030	0.000	0.105	0.260	0.420	0.530	0.570	0.530	0.420	0.260	0.105	0.000	-0.030	-0.045	-0.055	-0.055	-0.050	-0.045	-0.035	-0.025	-0.020	0.000



CAMBER DIAGRAM - CONTINUOUS SPANS

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/29/2024
TITLE OF DRAWING NORTHBOUND CAMBER TABLE AND DIAGRAM	DRAWING NUMBER: ST-41

CHECK
 DRAFTING
 CHECK
 DESIGN
 R. HENDERSON
 DESIGN SUPERVISOR
 DATE/TIME = 1/30/2024
 FILE NAME = BENTLEYHOSTING_jmptw11es01\$

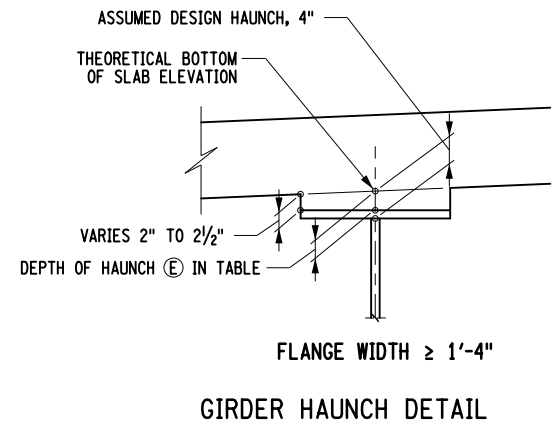
ALTERED BY:
ON:

AFFIX SEAL: RYAN DOUGLAS HENDERSON
ON:
01/30/2024

THIS SHEET SUPERSEDES SHEET 84
IN ITS ENTIRETY

HAUNCH TABLE		CL OF BRGS. BEG. ABUT.	0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	CL OF BRGS. PIER 1	0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	CL OF BRGS. PIER 2	0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	CL OF BRGS. END ABUT.	
GIRDER 8	A. REQ'D BOTTOM OF SLAB ELEVATION	203.14	203.09	203.05	203.00	202.96	202.91	202.87	202.82	202.78	202.73	202.69	202.57	202.45	202.33	202.21	202.09	201.97	201.85	201.73	201.61	201.49	201.44	201.39	201.34	201.30	201.25	201.20	201.15	201.10	201.05	201.01	
	B. TOP OF STEEL EL. (FIELD MEASURE)*																																
	C = A - B																																
	D. CONCRETE + S.D.L. DEFLECTION**	0.000	-0.024	-0.034	-0.044	-0.052	-0.058	-0.059	-0.056	-0.045	-0.026	0.000	0.091	0.218	0.344	0.434	0.466	0.434	0.344	0.219	0.092	0.000	-0.026	-0.045	-0.056	-0.060	-0.058	-0.053	-0.044	-0.034	-0.024	0.000	
	E. DEPTH OF HAUNCH REQ'D = C + D (ft)																																
GIRDER 9	A. REQ'D BOTTOM OF SLAB ELEVATION	203.28	203.24	203.19	203.15	203.10	203.06	203.01	202.97	202.92	202.88	202.83	202.71	202.60	202.48	202.36	202.24	202.12	202.00	201.88	201.75	201.63	201.58	201.54	201.49	201.44	201.39	201.34	201.29	201.25	201.20	201.15	
	B. TOP OF STEEL EL. (FIELD MEASURE)*																																
	C = A - B																																
	D. CONCRETE + S.D.L. DEFLECTION**	0.000	-0.023	-0.033	-0.042	-0.050	-0.056	-0.058	-0.054	-0.044	-0.025	0.000	0.090	0.217	0.342	0.432	0.464	0.432	0.342	0.217	0.091	0.000	-0.025	-0.044	-0.054	-0.058	-0.056	-0.050	-0.043	-0.033	-0.023	0.000	
	E. DEPTH OF HAUNCH REQ'D = C + D (ft)																																
GIRDER 10	A. REQ'D BOTTOM OF SLAB ELEVATION	203.43	203.39	203.34	203.30	203.25	203.21	203.16	203.11	203.07	203.02	202.98	202.86	202.74	202.62	202.50	202.38	202.26	202.14	202.02	201.90	201.78	201.73	201.68	201.63	201.58	201.54	201.49	201.44	201.39	201.34	201.29	
	B. TOP OF STEEL EL. (FIELD MEASURE)*																																
	C = A - B																																
	D. CONCRETE + S.D.L. DEFLECTION**	0.000	-0.023	-0.033	-0.042	-0.050	-0.056	-0.058	-0.054	-0.044	-0.025	0.000	0.090	0.217	0.342	0.432	0.464	0.432	0.342	0.217	0.091	0.000	-0.025	-0.044	-0.054	-0.058	-0.056	-0.050	-0.043	-0.033	-0.023	0.000	
	E. DEPTH OF HAUNCH REQ'D = C + D (ft)																																
GIRDER 11	A. REQ'D BOTTOM OF SLAB ELEVATION	203.58	203.53	203.49	203.44	203.40	203.35	203.31	203.26	203.21	203.17	203.12	203.01	202.89	202.77	202.65	202.53	202.41	202.29	202.16	202.04	201.92	201.87	201.82	201.78	201.73	201.68	201.63	201.58	201.53	201.48	201.44	
	B. TOP OF STEEL EL. (FIELD MEASURE)*																																
	C = A - B																																
	D. CONCRETE + S.D.L. DEFLECTION**	0.000	-0.023	-0.033	-0.042	-0.050	-0.056	-0.058	-0.054	-0.044	-0.025	0.000	0.090	0.217	0.342	0.432	0.464	0.432	0.342	0.217	0.091	0.000	-0.025	-0.044	-0.054	-0.058	-0.056	-0.050	-0.043	-0.033	-0.023	0.000	
	E. DEPTH OF HAUNCH REQ'D = C + D (ft)																																
GIRDER 12	A. REQ'D BOTTOM OF SLAB ELEVATION	203.63	203.58	203.53	203.48	203.44	203.39	203.34	203.29	203.24	203.20	203.15	203.03	202.91	202.78	202.66	202.54	202.43	202.31	202.19	202.07	201.95	201.91	201.86	201.82	201.77	201.73	201.68	201.64	201.59	201.55	201.50	
	B. TOP OF STEEL EL. (FIELD MEASURE)*																																
	C = A - B																																
	D. CONCRETE + S.D.L. DEFLECTION**	0.000	-0.023	-0.033	-0.042	-0.050	-0.056	-0.058	-0.054	-0.044	-0.025	0.000	0.090	0.217	0.342	0.432	0.464	0.432	0.342	0.217	0.091	0.000	-0.025	-0.044	-0.054	-0.058	-0.056	-0.050	-0.043	-0.033	-0.023	0.000	
	E. DEPTH OF HAUNCH REQ'D = C + D (ft)																																
GIRDER 13	A. REQ'D BOTTOM OF SLAB ELEVATION	203.43	203.39	203.34	203.29	203.24	203.19	203.14	203.10	203.05	203.00	202.95	202.83	202.71	202.59	202.47	202.35	202.23	202.11	201.99	201.88	201.76	201.71	201.67	201.62	201.58	201.53	201.49	201.44	201.40	201.35	201.31	
	B. TOP OF STEEL EL. (FIELD MEASURE)*																																
	C = A - B																																
	D. CONCRETE + S.D.L. DEFLECTION**	0.000	-0.023	-0.033	-0.042	-0.050	-0.056	-0.058	-0.054	-0.044	-0.025	0.000	0.090	0.217	0.342	0.432	0.464	0.432	0.342	0.217	0.091	0.000	-0.025	-0.044	-0.054	-0.058	-0.056	-0.050	-0.043	-0.033	-0.023	0.000	
	E. DEPTH OF HAUNCH REQ'D = C + D (ft)																																
GIRDER 14	A. REQ'D BOTTOM OF SLAB ELEVATION	203.24	203.19	203.14	203.09	203.05	203.00	202.95	202.90	202.85	202.81	202.76	202.64	202.52	202.39	202.27	202.15	202.04	201.92	201.80	201.68	201.56	201.52	201.47	201.43	201.38	201.34	201.29	201.25	201.20	201.16	201.11	
	B. TOP OF STEEL EL. (FIELD MEASURE)*																																
	C = A - B																																
	D. CONCRETE + S.D.L. DEFLECTION**	0.000	-0.021	-0.029	-0.037	-0.044	-0.049	-0.051	-0.047	-0.038	-0.022	0.000	0.080	0.192	0.303	0.382	0.411	0.383	0.303	0.192	0.080	0.000	-0.022	-0.038	-0.047	-0.050	-0.048	-0.043	-0.037	-0.029	-0.021	0.000	
	E. DEPTH OF HAUNCH REQ'D = C + D (ft)																																

• ASSUMES STEEL COMPLETELY ERECTED AND COUNTERWEIGHTS POURED
 • DOES NOT INCLUDE COUNTERWEIGHT LOADING



ALTERED BY: ON: AFFIX SEAL: RYAN DOUGLAS HENDERSON ON: 01/30/2024



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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



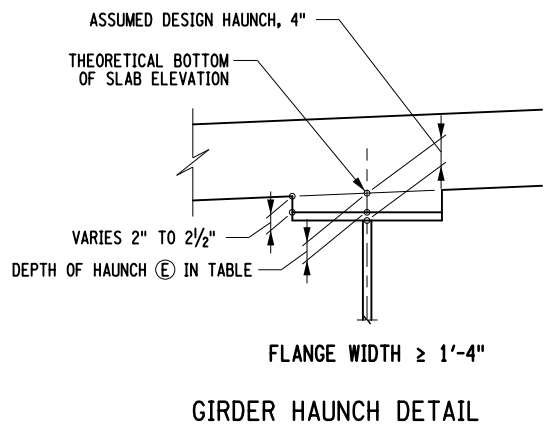
TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/29/2024
TITLE OF DRAWING NORTHBOUND HAUNCH TABLE AND DETAILS	DRAWING NUMBER: ST-43

FILE NAME: R. HENDERSON DESIGN SUPERVISOR
 DATE/TIME: 1/29/2024
 USER: BENTLEYHOSTING\jmtw11es01\$
 DRAFTING CHECK
 CHECK

THIS SHEET SUPERSEDES SHEET 85
IN ITS ENTIRETY

HAUNCH TABLE		CL OF BRGS. BEG. ABUT.	0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	CL OF BRGS. PIER 1	0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	CL OF BRGS. PIER 2	0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	CL OF BRGS. END ABUT.
GIRDER 1	A. REQ'D BOTTOM OF SLAB ELEVATION	203.53	203.49	203.45	203.40	203.36	203.32	203.27	203.23	203.19	203.14	203.10	202.99	202.87	202.76	202.65	202.53	202.42	202.30	202.18	202.07	201.95	201.90	201.86	201.81	201.76	201.72	201.67	201.62	201.58	201.53	201.49
	B. TOP OF STEEL EL. (FIELD MEASURE)*																															
	C = A - B																															
	D. CONCRETE + S.D.L. DEFLECTION**	0.000	-0.023	-0.034	-0.044	-0.053	-0.058	-0.060	-0.056	-0.045	-0.026	0.000	0.092	0.219	0.346	0.436	0.468	0.436	0.346	0.220	0.092	0.000	-0.026	-0.045	-0.056	-0.060	-0.058	-0.052	-0.044	-0.034	-0.024	0.000
	E. DEPTH OF HAUNCH REQ'D = C + D (ft)																															
GIRDER 2	A. REQ'D BOTTOM OF SLAB ELEVATION	203.68	203.64	203.60	203.55	203.51	203.47	203.42	203.38	203.33	203.29	203.25	203.13	203.02	202.91	202.79	202.68	202.56	202.45	202.33	202.21	202.09	202.05	202.00	201.96	201.91	201.86	201.82	201.77	201.72	201.68	201.63
	B. TOP OF STEEL EL. (FIELD MEASURE)*																															
	C = A - B																															
	D. CONCRETE + S.D.L. DEFLECTION**	0.000	-0.023	-0.033	-0.042	-0.050	-0.056	-0.058	-0.054	-0.044	-0.025	0.000	0.090	0.217	0.342	0.432	0.464	0.432	0.342	0.217	0.091	0.000	-0.025	-0.044	-0.054	-0.058	-0.056	-0.050	-0.043	-0.033	-0.023	0.000
	E. DEPTH OF HAUNCH REQ'D = C + D (ft)																															
GIRDER 3	A. REQ'D BOTTOM OF SLAB ELEVATION	203.83	203.79	203.74	203.70	203.66	203.61	203.57	203.53	203.48	203.44	203.39	203.28	203.17	203.05	202.94	202.82	202.71	202.59	202.47	202.36	202.24	202.19	202.15	202.10	202.05	202.01	201.96	201.91	201.87	201.82	201.77
	B. TOP OF STEEL EL. (FIELD MEASURE)*																															
	C = A - B																															
	D. CONCRETE + S.D.L. DEFLECTION**	0.000	-0.023	-0.033	-0.042	-0.050	-0.056	-0.058	-0.054	-0.044	-0.025	0.000	0.090	0.217	0.342	0.432	0.464	0.432	0.342	0.217	0.091	0.000	-0.025	-0.044	-0.054	-0.058	-0.056	-0.050	-0.043	-0.033	-0.023	0.000
	E. DEPTH OF HAUNCH REQ'D = C + D (ft)																															
GIRDER 4	A. REQ'D BOTTOM OF SLAB ELEVATION	203.78	203.73	203.68	203.64	203.59	203.54	203.50	203.45	203.40	203.36	203.31	203.19	203.07	202.95	202.84	202.72	202.60	202.49	202.37	202.26	202.15	202.10	202.06	202.01	201.97	201.92	201.88	201.84	201.79	201.75	201.71
	B. TOP OF STEEL EL. (FIELD MEASURE)*																															
	C = A - B																															
	D. CONCRETE + S.D.L. DEFLECTION**	0.000	-0.023	-0.033	-0.042	-0.050	-0.056	-0.058	-0.054	-0.044	-0.025	0.000	0.090	0.217	0.342	0.432	0.464	0.432	0.342	0.217	0.091	0.000	-0.025	-0.044	-0.054	-0.058	-0.056	-0.050	-0.043	-0.033	-0.023	0.000
	E. DEPTH OF HAUNCH REQ'D = C + D (ft)																															
GIRDER 5	A. REQ'D BOTTOM OF SLAB ELEVATION	203.58	203.54	203.49	203.44	203.39	203.35	203.30	203.25	203.21	203.16	203.11	203.00	202.88	202.76	202.64	202.53	202.41	202.29	202.18	202.06	201.95	201.91	201.86	201.82	201.77	201.73	201.69	201.64	201.60	201.55	201.51
	B. TOP OF STEEL EL. (FIELD MEASURE)*																															
	C = A - B																															
	D. CONCRETE + S.D.L. DEFLECTION**	0.000	-0.023	-0.033	-0.042	-0.050	-0.056	-0.058	-0.054	-0.044	-0.025	0.000	0.090	0.217	0.342	0.432	0.464	0.432	0.342	0.217	0.091	0.000	-0.025	-0.044	-0.054	-0.058	-0.056	-0.050	-0.043	-0.033	-0.023	0.000
	E. DEPTH OF HAUNCH REQ'D = C + D (ft)																															
GIRDER 6	A. REQ'D BOTTOM OF SLAB ELEVATION	203.39	203.34	203.29	203.25	203.20	203.15	203.11	203.06	203.01	202.97	202.92	202.80	202.68	202.57	202.45	202.33	202.22	202.10	201.99	201.87	201.76	201.71	201.67	201.62	201.58	201.54	201.49	201.45	201.41	201.36	201.32
	B. TOP OF STEEL EL. (FIELD MEASURE)*																															
	C = A - B																															
	D. CONCRETE + S.D.L. DEFLECTION**	0.000	-0.023	-0.033	-0.042	-0.050	-0.056	-0.058	-0.054	-0.044	-0.025	0.000	0.090	0.217	0.342	0.432	0.464	0.432	0.342	0.217	0.091	0.000	-0.025	-0.044	-0.054	-0.058	-0.056	-0.050	-0.043	-0.033	-0.023	0.000
	E. DEPTH OF HAUNCH REQ'D = C + D (ft)																															
GIRDER 7	A. REQ'D BOTTOM OF SLAB ELEVATION	203.19	203.15	203.10	203.05	203.01	202.96	202.91	202.87	202.82	202.77	202.73	202.61	202.49	202.37	202.25	202.14	202.02	201.91	201.79	201.68	201.56	201.52	201.47	201.43	201.39	201.34	201.30	201.25	201.21	201.17	201.12
	B. TOP OF STEEL EL. (FIELD MEASURE)*																															
	C = A - B																															
	D. CONCRETE + S.D.L. DEFLECTION**	0.000	-0.023	-0.031	-0.038	-0.045	-0.049	-0.051	-0.048	-0.038	-0.022	0.000	0.080	0.192	0.304	0.383	0.412	0.383	0.304	0.192	0.080	0.000	-0.022	-0.038	-0.048	-0.051	-0.050	-0.045	-0.039	-0.031	-0.023	0.000
	E. DEPTH OF HAUNCH REQ'D = C + D (ft)																															

*ASSUMES STEEL COMPLETELY ERECTED AND COUNTERWEIGHTS POURED
 ** DOES NOT INCLUDE COUNTERWEIGHT LOADING



ALTERED BY:
 ON:
 AFFIX SEAL: RYAN DOUGLAS HENDERSON
 ON: 01/30/2024



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

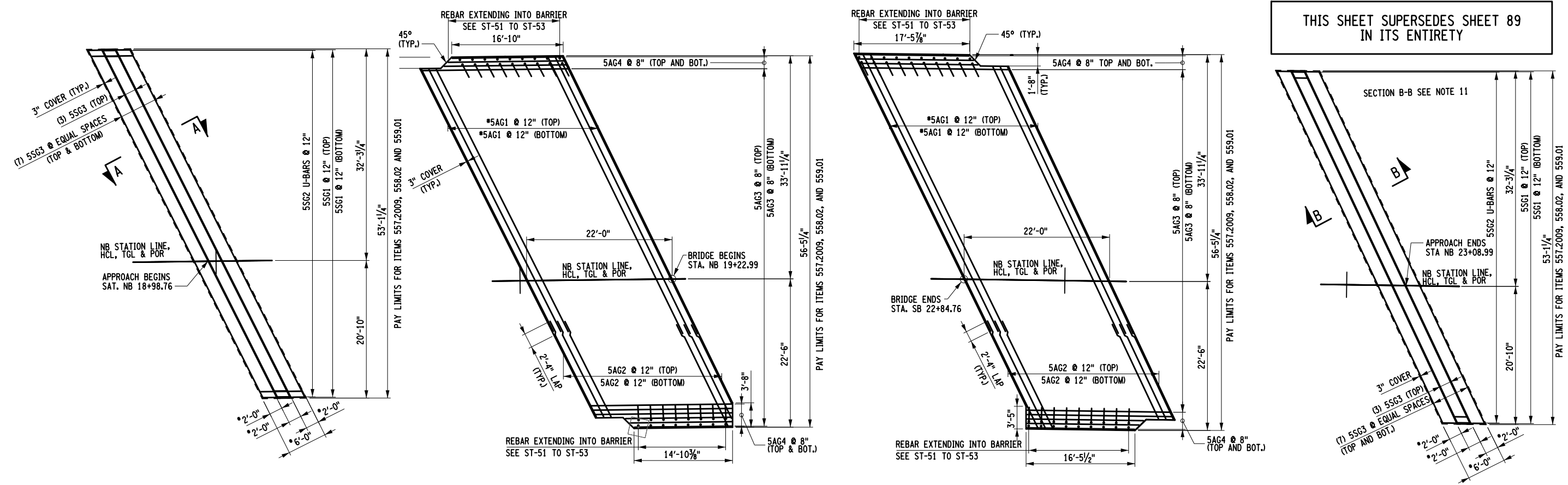
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/29/2024
TITLE OF DRAWING SOUTHBOUND HAUNCH TABLE AND DETAILS	DRAWING NUMBER: ST-44

USER = BENTLEYHOSTING\jmtw11res01\$
 DATE/TIME = 1/29/2024 10:58:11
 R. HENDERSON
 DESIGN SUPERVISOR
 DRAFTING
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 DESIGN
 CHECK
 FILE NAME =

THIS SHEET SUPERSEDES SHEET 89
IN ITS ENTIRETY

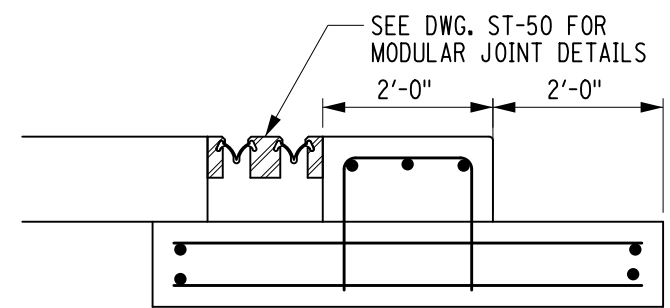


NORTHBOUND APPROACH AND SLEEPER REINFORCEMENT

NOT TO SCALE
DIMENSION SHOWN ALONG OR PERPENDICULAR TO HCL
(EXCEPT AS DESIGNATED BY *)

APPROACH SLAB TABLE			
LOCATION	CONCRETE APPROACH SLAB 557.2009 (SY)	LONGITUDINAL SAWCUT GROOVING 558.02 (SY)	PROTECTIVE SEALER 559.01 (SY)
BEGIN APPROACH SLAB	176	131	1296
END APPROACH SLAB	176	131	1300

- NOTE:
- EXCAVATION FOR SLEEPER SLABS SHALL BE CAREFULLY MADE AFTER COMPACTED ABUTMENT EMBANKMENT IS IN PLACE. THE SLEEPER SLABS SHALL BE FOUND ON UNDISTURBED COMPACT MATERIAL OR RE-COMPACTED MATERIAL. NO LOOSE BACKFILL SHALL BE ALLOWED. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE SLEEPER SLAB FROM TEMPORARY LOADINGS OR ANY CONDITION WHICH COULD CAUSE MOVEMENTS OR UNEVEN SETTLEMENT OF THE SLEEPER SLAB.
 - TO PERMIT UNHINDERED LONGITUDINAL MOVEMENT OF SLAB, THE SURFACE OF THE SUBBASE COURSE MUST BE ACCURATELY CONTROLLED TO FOLLOW AND BE PARALLEL TO ROADWAY GRADE AND CROSS SLOPE. POLYETHYLENE CURING COVERS (WHITE OPAQUE) IN ACCORDANCE WITH MATERIAL SPECIFICATION SUBSECTION 711-04 SHALL BE PLACED ON FINISHED SUBBASE COURSE THE FULL WIDTH OF THE APPROACH SLAB PRIOR TO PLACEMENT OF THE REINFORCEMENT. THE CURING COVERS SHALL BE 0.004 INCH THICK, AND LAPS SHALL BE 2 FT. MINIMUM.
 - TOP OF SLEEPER SLABS SHALL BE STEEL TROWEL FINISHED AND COATED WITH A 0.04 INCH NOMINAL THICKNESS OF PERFORMANCE GRADE ASPHALT AS INDICATED IN THE PROPOSAL, OR MATERIAL SPECIFICATION 702-3101. THE TOP OF SLEEPER SLABS SHALL FOLLOW THE CROSS SLOPE AND GRADE OF THE ROADWAY, COST TO BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB ITEM.
 - FILL THE RECESS WITH A STRUCTURAL JOINT MATERIAL, LIQUID SEALANT, FROM THE DEPARTMENTS APPROVED LIST. THE MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED FOR THOSE SEALANTS THAT REQUIRES A PRIMER. THE CONCRETE SHALL CURE FOR MINIMUM OF 7 DAYS BEFORE JOINT IS SEALED. SEALING SHALL ONLY BE PERFORMED WHEN THE CONCRETE TEMPERATURE IS 40°F OR ABOVE. BOTH JOINT FACES SHALL BE SAND BLASTED TO ROUGHEN THE SURFACE AND TO REMOVE ALL SURFACE MOISTURE AND ANY OTHER MATERIAL THAT MAY INTERFERE WITH BOND.
 - TOP SURFACE OF STRUCTURAL SLABS AND APPROACH SLABS SHALL BE GROOVED UNDER THE SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE ITEM. EXPOSED AREAS OF SLEEPER SLAB DO NOT NEED TO BE GROOVED.
 - COMPRESSED SYNTHETIC SHEET GASKET (TREATED BOTH SIDES), MATERIAL SPECIFICATIONS 728-06, TWO 0.06 INCH THICK SHEETS. PRICE WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB ITEM.
 - MOVEMENTS AT THE SLEEPER SLAB JOINTS ARE SHOWN WITHIN THE APPROPRIATE JOINT DETAILS ON DWG. ST-49 AND ST-50.
 - ALL REINFORCEMENT SHALL HAVE 3 INCH COVER UNLESS OTHERWISE NOTED.
 - (G) DENOTES GALVANIZED COATED BARS.
 - DETAILS NO THE DRAWINGS LABELED AS "NOT TO SCALE: ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALES IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
 - SEE SECTION B-B ON DWG ST-49



NOTE: FOR ADDITIONAL DETAILS & DIMENSIONS SEE ST-49
SECTION A-A SLEEPER SLAB
NOT TO SCALE

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALKKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING NORTHBOUND APPROACH SLAB REINFORCEMENT PLAN	DRAWING NUMBER: ST-48

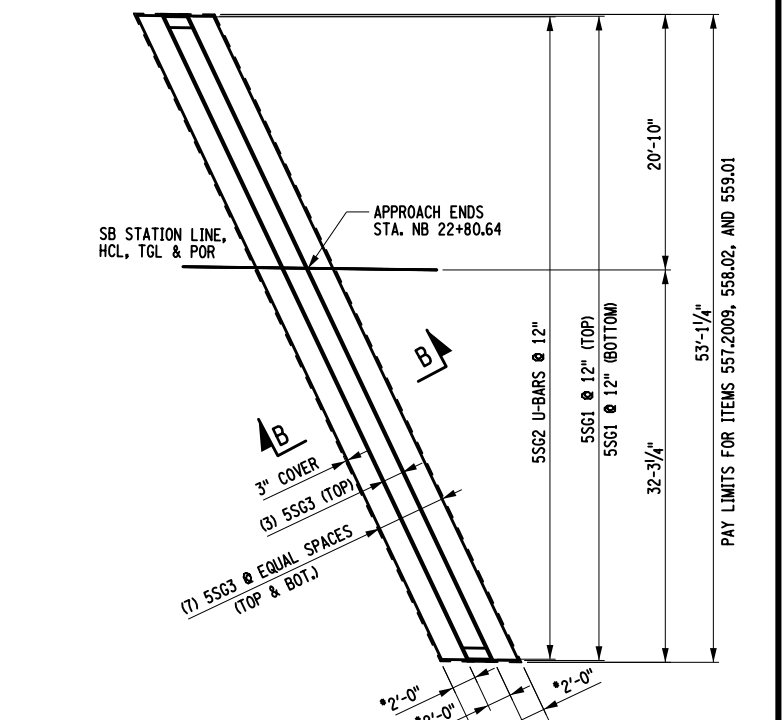
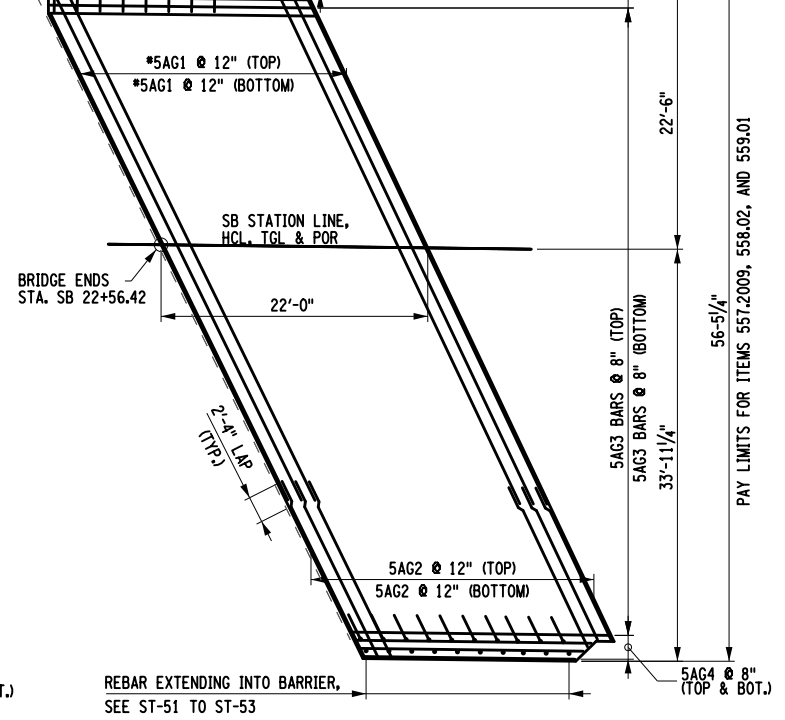
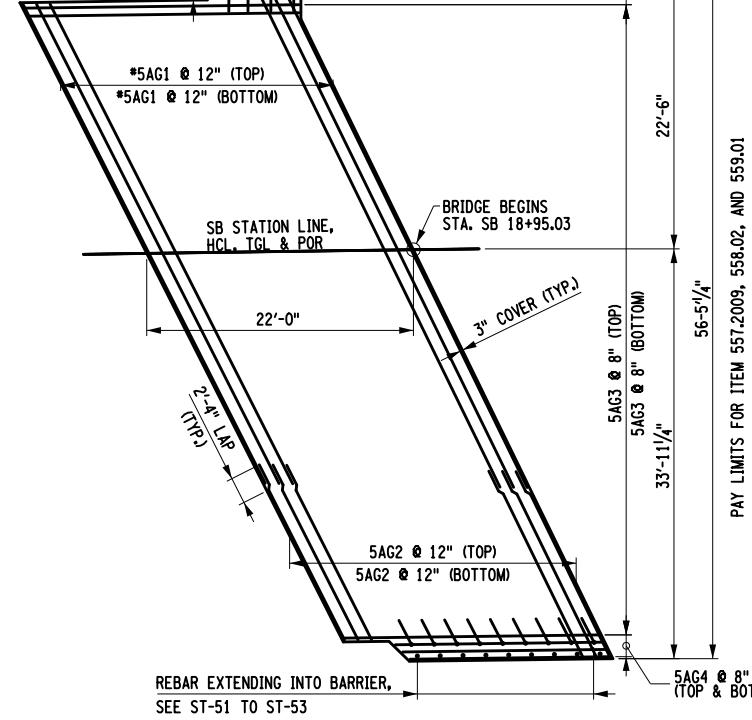
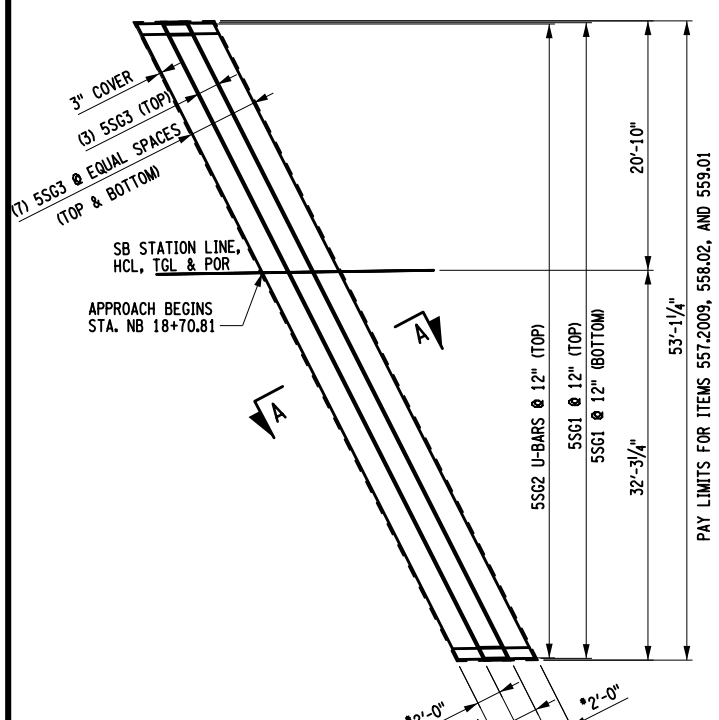
USER = BENTLEYHOSTING\jmtw11res01\$
 DATE/TIME = 1/24/2024
 R. HENDERSON
 DESIGN SUPERVISOR
 DRAFTING
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 DESIGN
 DESIGN SUPERVISOR

ALTERED BY:
ON:

AFFIX SEAL: RYAN DOUGLAS HENDERSON
ON: 01/24/2024

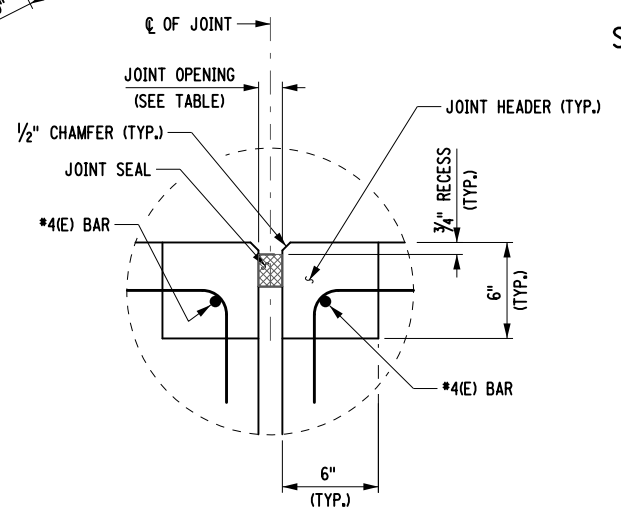
THIS SHEET SUPERSEDES SHEET 90
IN ITS ENTIRETY

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DESIGN SUPERVISOR
R. HENDERSON
FILE NAME =
DATE/TIME = 1/24/2024
USER = BENTLEYHOSTING\jmtow11res01\$



SUPERSTRUCTURE TEMPERATURE (°F)	JOINT OPENING (IN.)
30	1 5/8
35	1 5/8
40	1 5/8
45	1 5/8
50	1 1/2
55	1 1/2
60	1 1/2
65	1 3/8
70	1 3/8
75	1 1/4
80	1 1/4
85	1 1/4
90	1 1/8
95	1 1/8
100	1 1/8
105	1
110	1

NOTES:
 MIN. OPENING (IN.) = 1
 MAX. OPENING/REQ. MIN. SEAL WIDTH (IN.) = 2.125
 TOTAL MOVEMENT (IN.) = 1.125

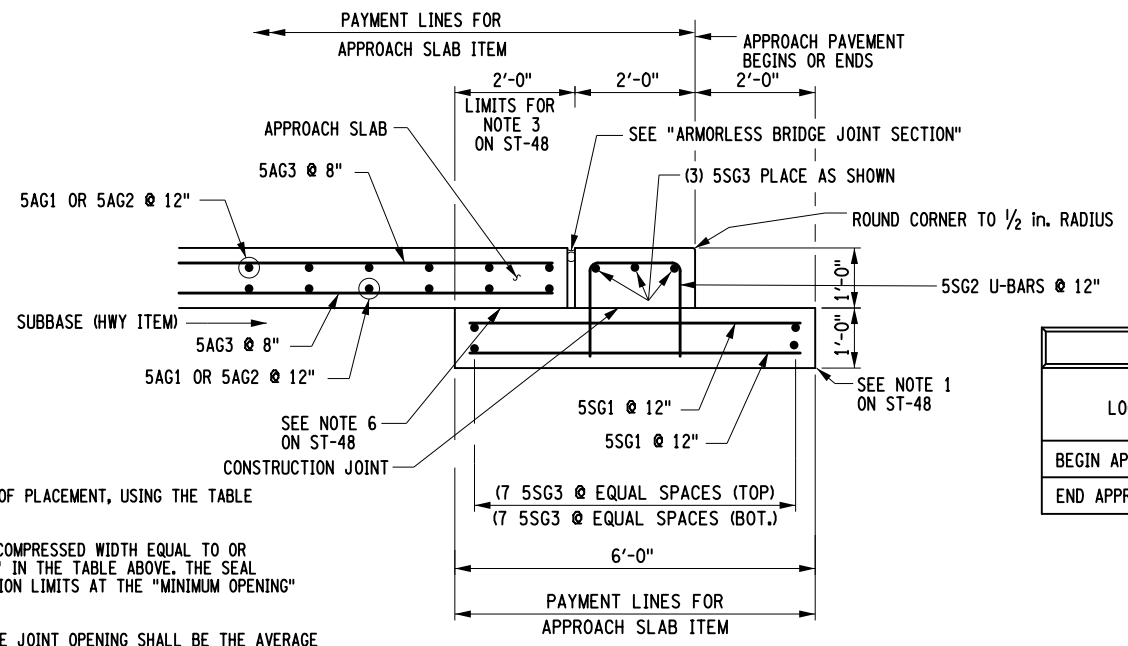


ARMORLESS BRIDGE JOINT SECTION

NOTES:
 THE "JOINT OPENING" SHALL BE DETERMINED AT THE TIME OF PLACEMENT, USING THE TABLE PROVIDED ON THIS DRAWING.
 THE CONTRACTOR SHALL SUPPLY A JOINT SEAL WITH AN UNCOMPRESSED WIDTH EQUAL TO OR GREATER THAN THE DIMENSION NOTED AS "MIN. SEAL WIDTH" IN THE TABLE ABOVE. THE SEAL SUPPLIED SHALL NOT EXCEED THE MANUFACTURES COMPRESSION LIMITS AT THE "MINIMUM OPENING" NOTED IN THE TABLE.
 THE SUPERSTRUCTURE TEMPERATURE USED TO DETERMINE THE JOINT OPENING SHALL BE THE AVERAGE TEMPERATURE OF THE BOTTOM OF THE GIRDER TOP FLANGES, (OR) THE TEMPERATURE OF THE SIDE OF A PRESTRESSED BEAM NOT DIRECTLY IN SUNLIGHT. A MINIMUM OF TWO TEMPERATURE READINGS PER SPAN SHALL BE USED TO CALCULATE THE AVERAGE SUPERSTRUCTURE TEMPERATURE.
 ALL HEADER REINFORCEMENT SHALL HAVE A 2" MINIMUM COVER.

SOUTHBOUND APPROACH AND SLEEPER REINFORCEMENT

NOT TO SCALE
 DIMENSION SHOWN ALONG OR PERPENDICULAR TO HCL
 (EXCEPT AS DESIGNATED BY *)



SECTION B-B SLEEPER SLAB

LOCATION	CONCRETE APPROACH SLAB 557.2009 (SY)	LONGITUDINAL SAWCUT GROOVING 558.02 (SY)	PROTECTIVE SEALER 559.01 (SY)
BEGIN APPROACH SLAB	173	128	1271
END APPROACH SLAB	175	130	1288

NOTES:
 1. SEE SECTION A-A ON DWG. ST-48
 2. SEE MODULAR JOINT DETAILS DWG. ST-50
 3. SEE NOTES ON DWG. ST-48

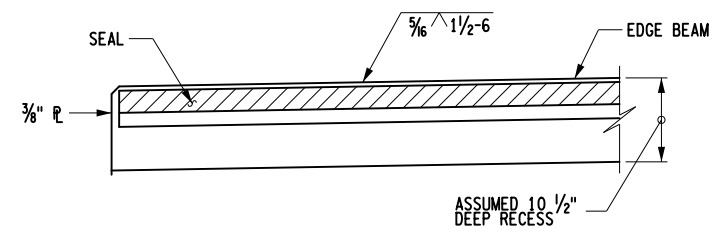
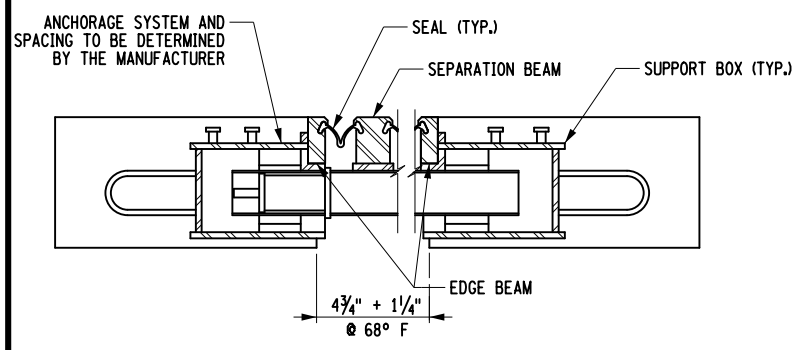
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DATE	DESCRIPTION	BY	SYM.

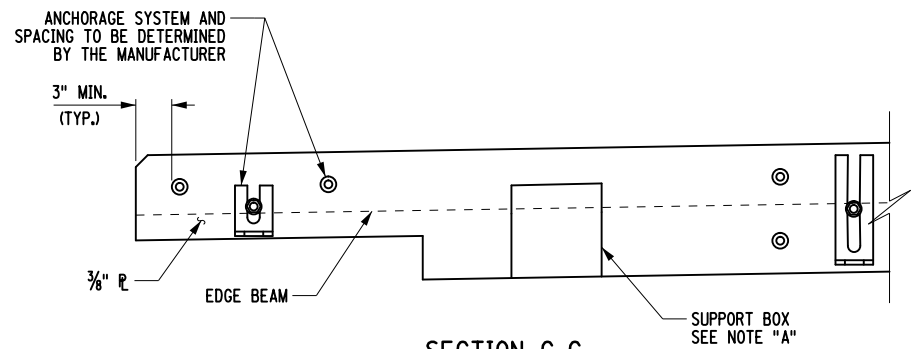


TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING SOUTHBOUND APPROACH SLAB REINFORCEMENT PLAN	DRAWING NUMBER: ST-49

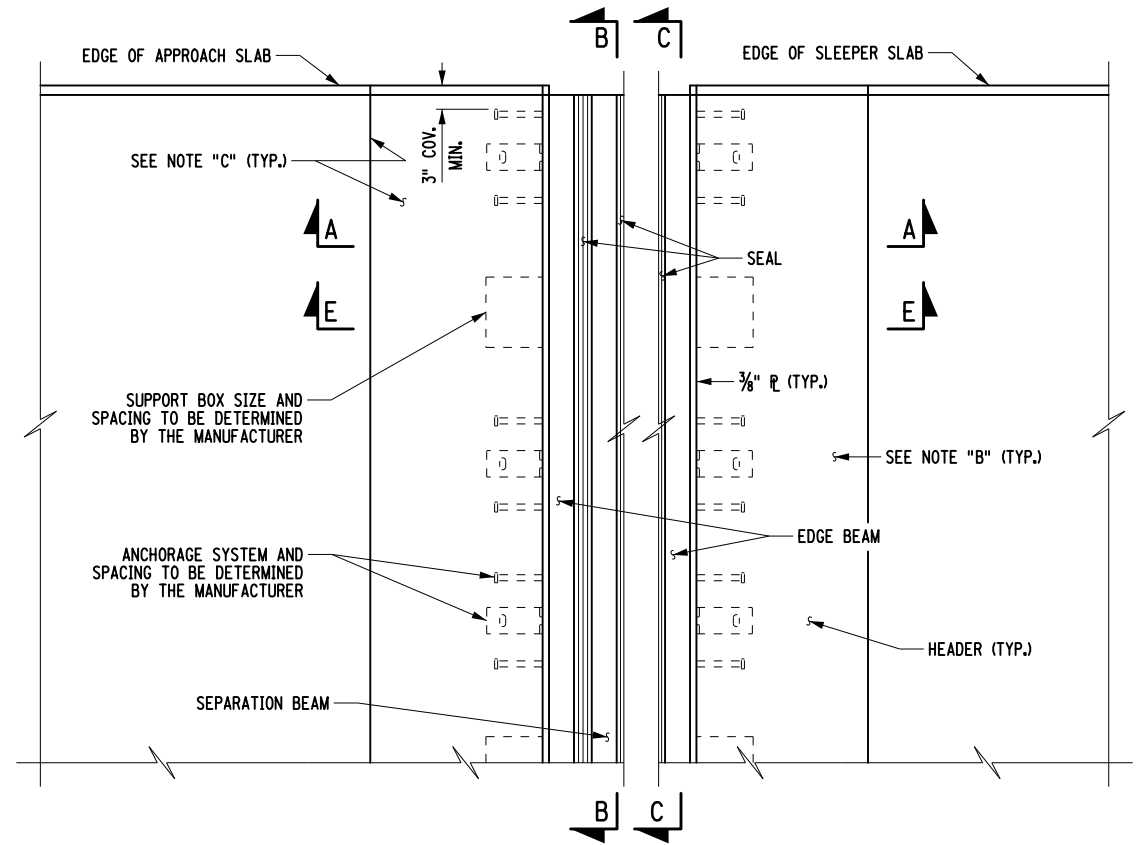
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IN ITS ENTIRETY



SECTION B-B

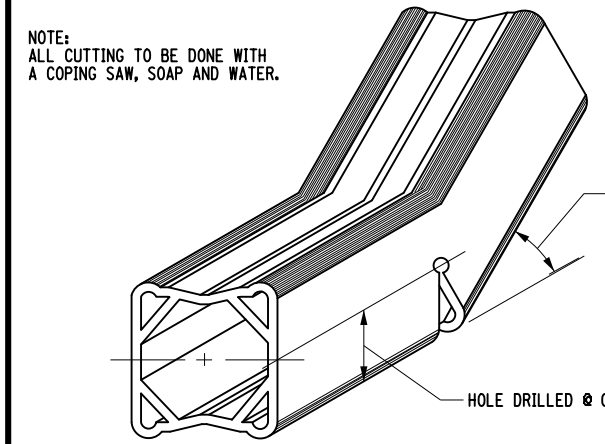


SECTION C-C

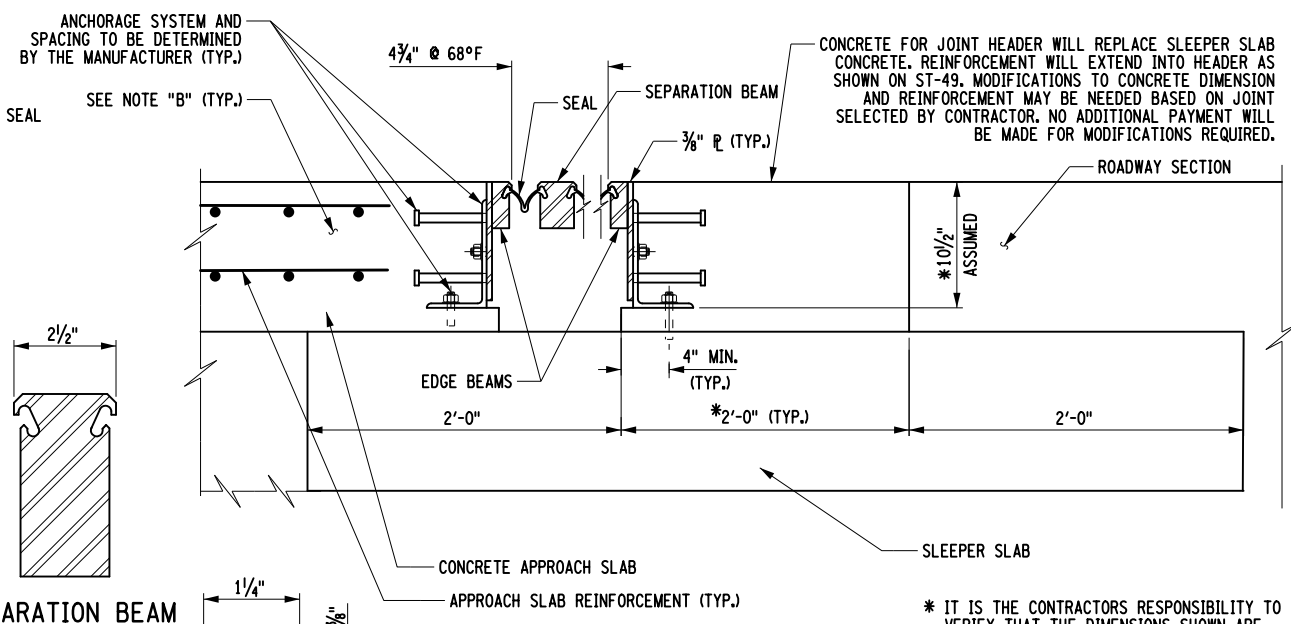
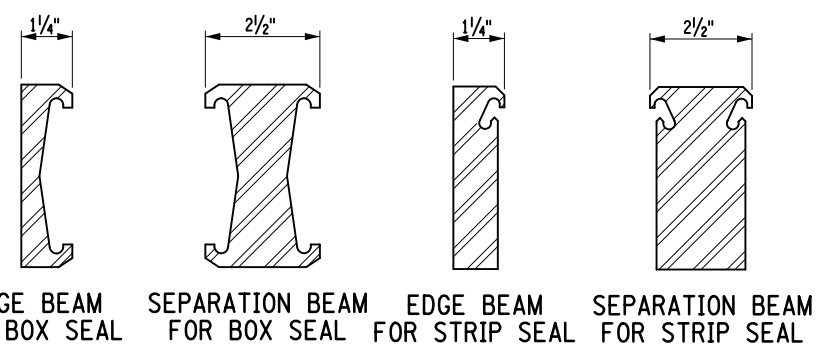


PARTIAL PLAN
(MULTICELL MODULAR JOINT SYSTEM AT APPROACH/SLEEPER SLAB)
ITEM 566.02

SECTION E-E
(HEADER ONLY SHOWN FOR CLARITY)



DETAIL FOR CUTTING
BOX SEAL



SECTION A-A AT APPROACH
AND SLEEPER SLAB

NOTE "B"
THE CONCRETE FURNISHED AND PLACED IN THE RECESSES FOR INSTALLING THE JOINT SYSTEM SHALL COMPLY WITH THE SPECIFICATIONS FOR THE CURRENT SLAB ITEM, EXCEPT THAT MACHINE FINISHING WILL NOT BE REQUIRED AND CURING TIME NEED NOT EXCEED 7 DAYS. THE COST FOR FURNISHING AND PLACING THIS CONCRETE SHALL BE INCLUDED IN THE UNIT PRICE OF THE SLAB ITEM.

NOTES:
IT IS DESIRABLE TO HAVE THE MODULAR JOINT WITH ITS SEAL ASSEMBLED IN THE SHOP AND DELIVERED TO THE JOB SITE ALL SET FOR INSTALLATION IN ITS PREFORMED RECESS IN THE STRUCTURAL SLAB. IN CASES WHERE THE JOINT CANNOT BE ASSEMBLED IN THE SHOP, DUE TO ITS EXCESSIVE LENGTH CAUSING SHIPPING PROBLEMS, THE JOINT SHALL HAVE THE SEAL IN PLACE BEFORE THE STRUCTURE IS OPENED TO TRAFFIC, INCLUDING CONSTRUCTION TRAFFIC, AND BEFORE DISCONTINUING OPERATION WHEN WORK IS SUSPENDED DURING THE WINTER.

MODULAR JOINT SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL JOINT SUPPLIED MAY VARY SIGNIFICANTLY FROM THE ONE SHOWN HERE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST ALL REQUIRED DIMENSIONS IN THE FIELD, BASED ON FIELD VERIFIED DIMENSIONS, TO ACCOMMODATE THE ACTUAL MODULAR JOINT SUPPLIED.

STRIP SEAL OR BOX SEAL MAY BE USED AT THE CONTRACTOR'S OPTION.

THE SUPPLIER OF THE JOINT SYSTEM MUST BE ON THE NYSDOT APPROVED LIST.

THE ASSUMED DIMENSIONS OF THE BLOCKOUT (DEPTH AND WIDTH) ARE PLACED ON THE PLANS. IF THE JOINT SYSTEM SUPPLIED BY THE FABRICATOR/CONTRACTOR REQUIRES A CHANGE TO THE BLOCKOUT SIZE OR SUPPORT SYSTEM DETAILED IN THE PLANS, THAT CHANGE TO THE BLOCKOUT OR SUPPORT SYSTEM SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE CHANGES TO THE BLOCKOUT OR SUPPORT SYSTEM AS A RESULT OF THE SUPPLIED JOINT SYSTEM.

ENDS OF BOX SEAL TO BE CAPPED WITH NEOPRENE SPONGE AS APPROVED BY ENGINEER.

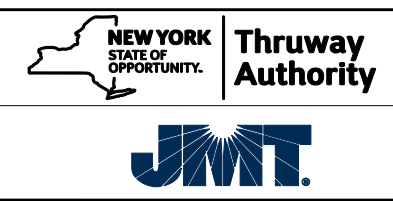
CAULKING COMPOUND FOR STRUCTURES CONFORMING TO N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 705-06 SHALL BE USED TO SEAL BETWEEN THE CURB AND THE 3/8" PLATE. COST TO BE INCLUDED IN THE UNIT PRICE FOR THE CURB ITEM.

DETAIL OF HEADED CONCRETE
ANCHOR STUD

STRIP SEAL CROSS SECTION

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

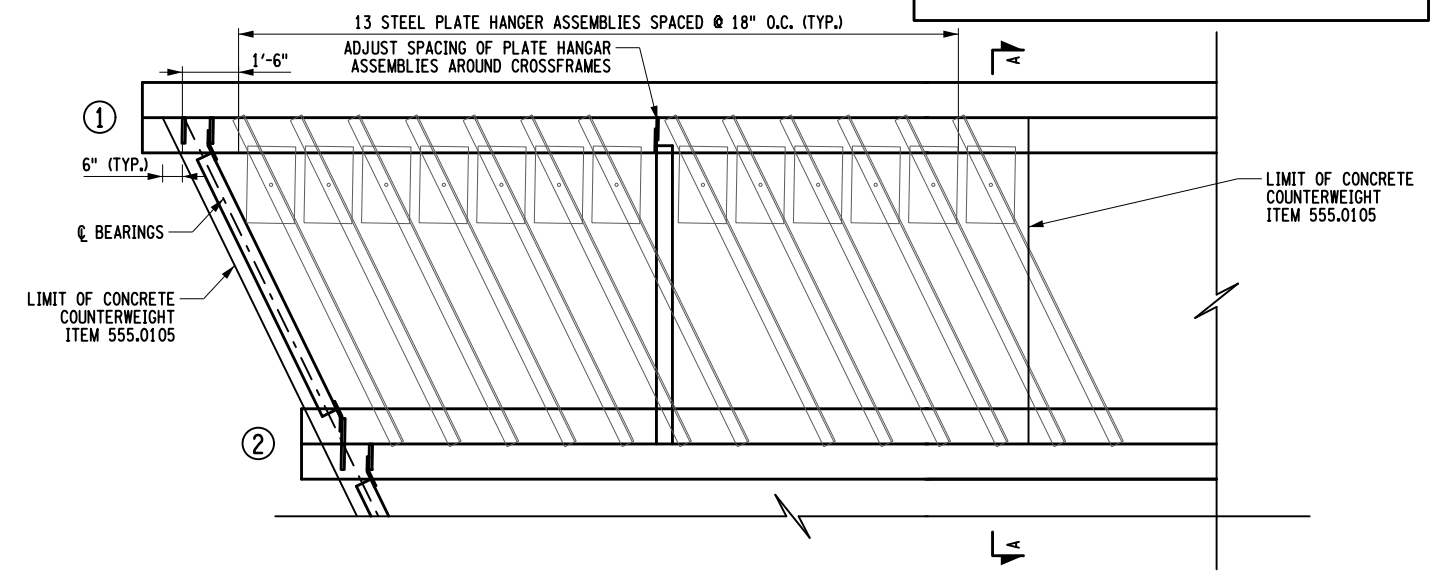
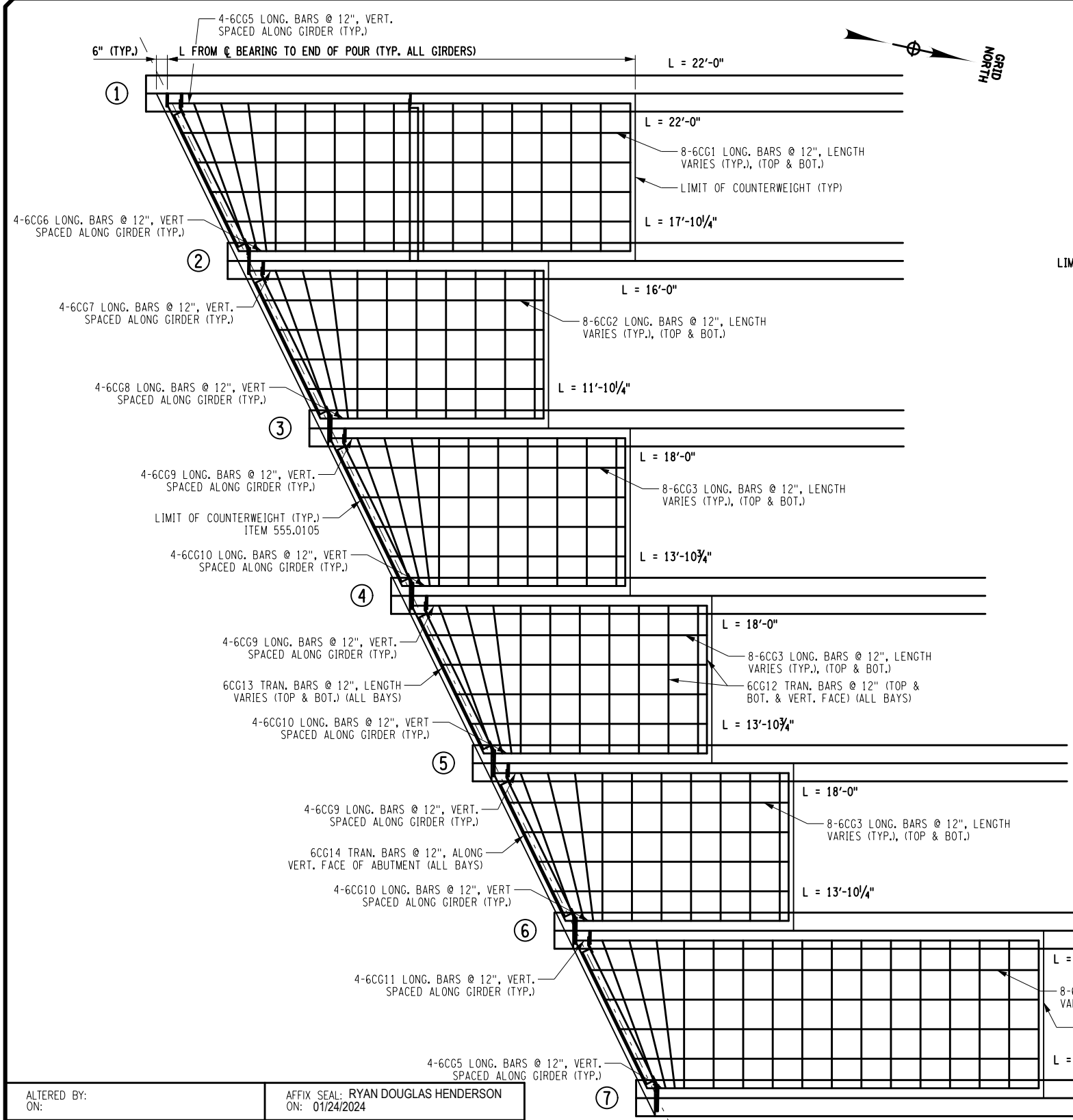


TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING JOINT DETAILS	DRAWING NUMBER: ST-50

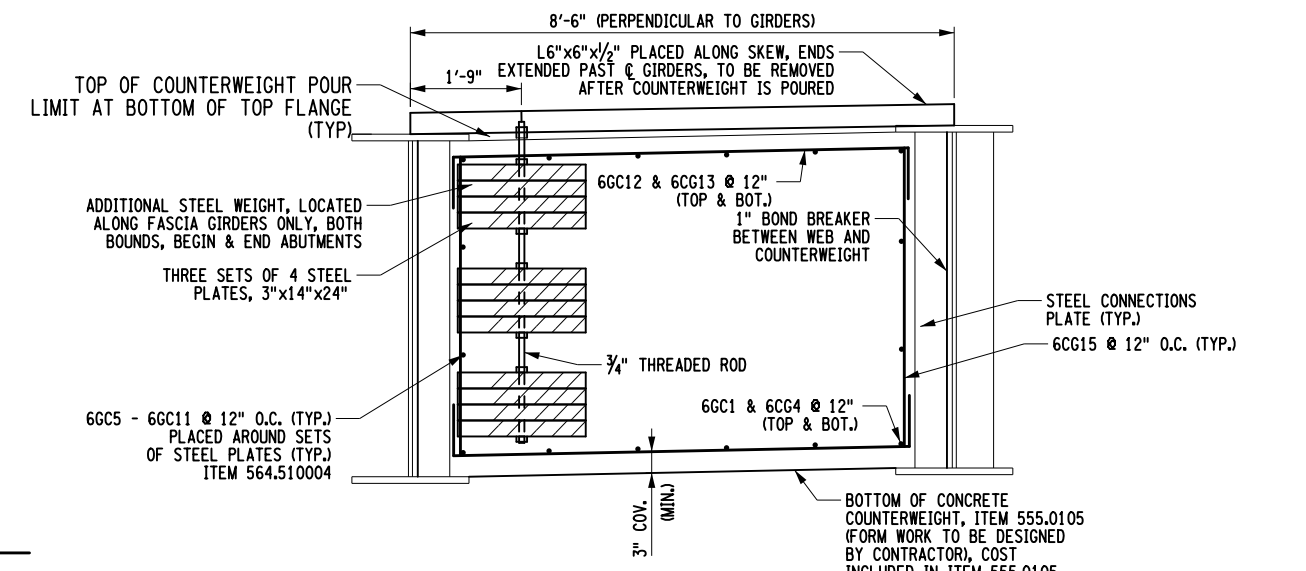
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DESIGN
DESIGN SUPERVISOR
R. HENDERSON
DATE/TIME = 1/24/2024
FILE NAME =
USER = BENTLEYHOSTING\jmtw11cs01\$



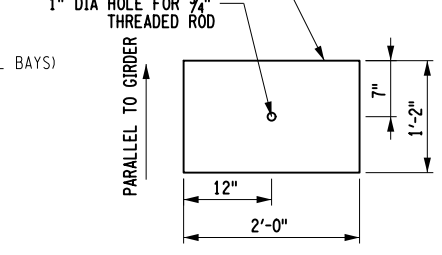
THIS SHEET SUPERSEDES SHEET 99
IN ITS ENTIRETY



STEEL PLATE HANGAR ASSEMBLY PARTIAL PLAN
GIRDERS G1-G2 SHOWN AT BEGIN ABUTMENT, SOUTHBOUND
(G6-G7, G8-G9, & G13-G14, AND END ABUTMENT SIMILAR)
NOT TO SCALE



SECTION A-A
(TYPICAL ALL BAYS, HANGAR ASSEMBLIES
ONLY AT G1, G7, G8, & G14)
NOT TO SCALE



STEEL PLATE DETAIL
NOT TO SCALE

- NOTES:
1. THREADED ROD WILL BE ASTM 307 WITH DOUBLE ASTM F3125 WASHERS AND ASTM F3125 NUTS.
 2. STEEL PLATES WILL BE ASTM A36
 3. COST OF THREADED RODS, WASHERS, NUTS, AND ANGLES TO TEMPORARILY SUPPORT ASSEMBLY WILL BE INCIDENTAL TO THE WEIGHT OF THE STEEL PLATES AND INCLUDED IN THE COST FOR THE ITEM 564.510004.
 4. ALL FORMWORK REQUIRED TO PLACE THE CONCRETE FOR THE COUNTERWEIGHTS WILL BE INCLUDED IN ITEM 555.0105.

CHECK
 DRAFTING
 CHECK
 DESIGN
 R. HENDERSON
 DESIGN SUPERVISOR
 DATE/TIME = 1/24/2024
 USER = BENTLEYHOSTING\jmtpl\lres01\$

ALTERED BY:
ON:

AFFIX SEAL: RYAN DOUGLAS HENDERSON
ON: 01/24/2024



CONCRETE COUNTERWEIGHT LAYOUT PLAN
(SOUTHBOUND BEGIN ABUTMENT SHOWN, NORTHBOUND AND END ABUTMENT SIMILAR)
NOT TO SCALE

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION OF I-87 BRIDGES OVER WALLKILL RIVER	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 81.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING MISCELLANEOUS DETAILS (3 OF 5)	DRAWING NUMBER: ST-58

BEGIN ABUTMENT BAR LIST					DETAIL DIMENSIONS (FT)																
MARK	NO.	LENGTH	TYPE	WEIGHT (LB)	A	B	C	D	E	F	G	H / H1	H2	J	K / K1	K2	L	O	R		
4BAG03	126	2'-6"	17	211		1'-0"	0'-6"	1'-0"													
5BAG01	167	8'-10.3"	N1	1544															8'-10.3"		
5BAG04	38	60'-0"	N1	2379															60'-0"		
5BAG05	15	15'-2.7"	T1	239	0'-6.5"	3'-9"	3'-2"	3'-9"	3'-2"		0'-6.5"	0'-3.8"									
5BAG07	1	16'-9.5"	N4	18	0'-6.5"	3'-8.3"	3'-7.8"	0'-0"	3'-2"	1'-11.3"	3'-3.3"	0'-6.5"	0'-0"	0'-0"	1'-9"	0'-0"	10'-2"	3'-8.3"	1'-4.5"		
5BAG09	1	13'-5.7"	N11	15	0'-6.5"	3'-1.7"	2'-7.8"	0'-0"	2'-11.5"	0'-0"	1'-3"	2'-11.3"	0'-6.5"	0'-0"	0'-0"	0'-0"	0'-5.8"	3'-1.8"	1'-0.2"		
6BAG06	96	2'-7"	17	373		0'-6"	2'-1"	0'-0"													
6BAG08	9	1'-11"	17	26		0'-6"	1'-5"	0'-0"													
6BAG10	8	2'-3"	17	28		0'-6"	1'-9"	0'-0"													
7BAG02	167	8'-10.3"	N1	3025															8'-10.3"		
SUBTOTAL GALVANIZED BARS				7858	lb																

END ABUTMENT BAR LIST					DETAIL DIMENSIONS (FT)																
MARK	NO.	LENGTH	TYPE	WEIGHT (LB)	A	B	C	D	E	F	G	H / H1	H2	J	K / K1	K2	L	O	R		
4EAG03	127	2'-6"	N1	213		1'-0"	0'-6"	1'-0"													
5EAG01	169	8'-10.3"	N1	1561															8'-10.3"		
5EAG04	38	60'-0"	17	2379															60'-0"		
5EAG05	27	14'-8.7"	N1	415		0'-6.5"	3'-6"	3'-2"	3'-6"	3'-2"	0'-6.5"	0'-3.8"									
5EAG07	2	18'-5.3"	N1	39	0'-6.5"	3'-2"	2'-10.5"	2'-1.3"	2'-10"	3'-6.3"	2'-10.3"	0'-6.5"		1'-10.8"	3'-2"		1'-6.8"	4'-1.3"	1'-3.5"		
5EAG09	3	16'-9.8"	T1	53	0'-6.5"	4'-2.3"	3'-3.3"		3'-3.3"	2'-10.5"	2'-1.5"	0'-6.5"			2'-7"		1'-3"	4'-2.3"	1'-5"		
6EAG06	96	2'-0"	N11	289		0'-6"	1'-6"														
6EAG08	8	1'-11"	N4	24		0'-6"	1'-5"														
6EAG10	9	1'-11"	N11	26		0'-6"	1'-5"														
7EAG02	169	8'-10.3"	N4	3059															8'-10.3"		
SUBTOTAL GALVANIZED BARS				8058	lb																

BEGIN ABUTMENT WINGWALL BAR LIST					DETAIL DIMENSIONS (FT)																
MARK	NO.	LENGTH	TYPE	WEIGHT (LB)	A	B	C	D	E	F	G	H / H1	H2	J	K / K1	K2	L	O	R		
4BWG02	2	13.97'	N1	19															13.97'		
4BWG04	2	5.25'	N1	8															5.25'		
6BWG01	15	4.39'	1	99		3.80'								0.38'							
6BWG03	6	4.70'	1	43		4.11'								0.38'							
SUBTOTAL GALVANIZED BARS				169	lb																

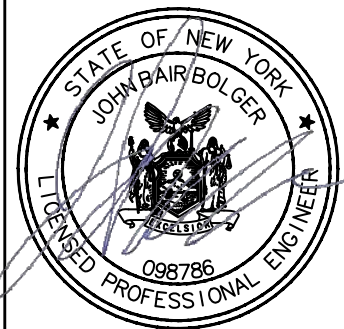
END ABUTMENT WINGWALL BAR LIST					DETAIL DIMENSIONS (FT)																
MARK	NO.	LENGTH	TYPE	WEIGHT (LB)	A	B	C	D	E	F	G	H / H1	H2	J	K / K1	K2	L	O	R		
4EWG02	2	14.15'	N1	19															14.15'		
4EWG04	2	15.63'	N1	21															15.63'		
6EWG01	15	4.71'	1	107		4.12'								0.38'							
6EWG03	16	4.42'	1	107		3.83'								0.38'							
SUBTOTAL GALVANIZED BARS				254	lb																

PIER 1 BAR LIST					DETAIL DIMENSIONS (FT)																
MARK	NO.	LENGTH	TYPE	WEIGHT (LB)	A	B	C	D	E	F	G	H / H1	H2	J	K / K1	K2	L	O	R		
5P1G01	57	15'-4.8"	17	916	0'-6.5"	3'-6"	3'-6"	3'-6"	3'-6"		0'-6.5"	0'-3.8"									
6P1G02	80	3'-5.5"	17	416		0'-6"	2'-11.5"	0'-0"													
6P1G03	9	15'-10.8"	N1	215	0'-6.5"	3'-6"	3'-9"	3'-6"			0'-6.5"	0'-3.8"									
6P1G04	32	3'-5.5"	17	167		0'-6"	2'-11.5"	0'-0"													
SUBTOTAL GALVANIZED BARS				1714	lb																

PIER 2 BAR LIST					DETAIL DIMENSIONS (FT)																
MARK	NO.	LENGTH	TYPE	WEIGHT (LB)	A	B	C	D	E	F	G	H / H1	H2	J	K / K1	K2	L	O	R		
5P2G01	75	15'-4.8"	T1	1205	0'-6.5"	3'-6"	3'-6"	3'-6"	3'-6"		0'-6.5"	0'-3.8"									
6P2G02	80	3'-9.5"	17	456		0'-6"	3'-3.5"	0'-0"													
6P2G03	12	15'-10.8"	T1	287	0'-6.5"	3'-9"	3'-6"	3'-9"			0'-6.5"	0'-3.8"									
6P2G04	32	3'-9.5"	17	183		0'-6"	3'-3.5"	0'-0"													
SUBTOTAL GALVANIZED BARS				2131	lb																

ALTERED BY:
ON:

AFFIX SEAL: John Bolger
ON: 01/24/2024



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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



Thruway Authority

Engineering and Land Surveying, P.C.

TITLE OF PROJECT I-87 OVER WALLKILL RIVER BRIDGE REHABILITATION	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 61.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING BARLIST-2	DRAWING NUMBER: ST-62

SUPERSTRUCTURE SLAB (NORTH BOUND) BAR LIST					DETAIL DIMENSIONS (FT)																
MARK	NO.	LENGTH	TYPE	WEIGHT (LB)	A	B	C	D	E	F	G	H / H1	H2	J	K / K1	K2	L	O	R		
4DG01	544	32'-4.5"	N1	11765														32'-4.5"			
4DG02	544	32'-4.5"	N1	11765														32'-4.5"			
4DG03	544	47'-6.2"	T5	17269	0'-6"	46'-8"					0'-0"			0'-4.3"							
4DG04	544	19'-1.3"	T5	6943	0'-6"	18'-3"					0'-0"			0'-4.3"							
4DG05	966	60'-0"	N1	38718														60'-0"			
4DG06	161	13'-2"	N1	1417														13'-2"			
4DG07	6	5'-3"	N1	22														5'-3"			
4DG08	190	7'-4.3"	1	934	0'-6"	6'-0"					0'-6"			0'-4.3"							
5DG01	36	60'-0"	N1	2253														60'-0"			
5DG02	12	17'-8"	N1	222														17'-8"			
5DG03	120	3'-8"	N1	459														3'-8"			
6DG01	85	60'-0"	N1	7661														60'-0"			
6DG02	87	60'-0"	N1	7841														60'-0"			
7DG01	1088	7'-8.5"	T5	17143	0'-10.8"	6'-1"					0'-0"			0'-8.8"							
7DG02	6	6'-7.8"	T5	82	0'-10.8"	5'-0.2"					0'-0"			0'-8.8"							
SUBTOTAL GALVANIZED BARS				124494	lb																

SUPERSTRUCTURE SLAB (SOUTH BOUND) BAR LIST					DETAIL DIMENSIONS (FT)																
MARK	NO.	LENGTH	TYPE	WEIGHT (LB)	A	B	C	D	E	F	G	H / H1	H2	J	K / K1	K2	L	O	R		
4DG01	544	32'-4.5"	N1	11765														32'-4.5"			
4DG02	544	32'-4.5"	N1	11765														32'-4.5"			
4DG03	544	47'-6.2"	T5	17269	0'-6"	46'-8"					0'-0"			0'-4.3"							
4DG04	544	19'-1.3"	T5	6943	0'-6"	18'-3"					0'-0"			0'-4.3"							
4DG05	966	60'-0"	N1	38718														60'-0"			
4DG06	161	13'-2"	N1	1417														13'-2"			
4DG07	6	5'-3"	N1	22														5'-3"			
4DG08	190	7'-4.3"	1	934	0'-6"	6'-0"					0'-6"			0'-4.3"							
5DG01	36	60'-0"	N1	2253														60'-0"			
5DG02	12	17'-8"	N1	222														17'-8"			
5DG03	120	3'-8"	N1	459														3'-8"			
6DG01	85	60'-0"	N1	7661														60'-0"			
6DG02	87	60'-0"	N1	7841														60'-0"			
7DG01	1088	7'-8.5"	T5	17143	0'-10.8"	6'-1"					0'-0"			0'-8.8"							
7DG02	6	6'-7.8"	T5	82	0'-10.8"	5'-0.2"					0'-0"			0'-8.8"							
SUBTOTAL GALVANIZED BARS				124494	lb																

APPROACH SLAB (NORTH BOUND) BAR LIST					DETAIL DIMENSIONS (FT)																
BAR MARK	NO.	LENGTH	TYPE	WEIGHT (LB)	A	B	C	D	E	F	G	H / H1	H2	J	K / K1	K2	L	O	R		
5AG01	92	40'-0"	N1	3839														40'-0"			
5AG02	92	24'-10"	N2	2383														24'-10"			
5AG03	324	21'-8"	N3	7322														21'-8"			
5AG04*	32	21'-7.5"	N4	722														21'-7.5"			
LENGTH VARIES FROM 14.33' TO 21.66'																					
SUBTOTAL GALVANIZED BARS				14266	lb																


APPROACH SLAB (SOUTH BOUND) BAR LIST					DETAIL DIMENSIONS (FT)																
BAR MARK	NO.	LENGTH	TYPE	WEIGHT (LB)	A	B	C	D	E	F	G	H / H1	H2	J	K / K1	K2	L	O	R		
5AG01	92	40'-0"	N1	3839														40'-0"			
5AG02	92	25'-6"	N2	2447														25'-6"			
5AG03	324	21'-8"	N3	7322														21'-8"			
5AG04*	32	21'-7.5"	N4	722														21'-7.5"			
LENGTH VARIES FROM 5.75' TO 21.66'																					
SUBTOTAL GALVANIZED BARS				14330	lb																

SLEEPER SLAB (SOUTH BOUND) BAR LIST					DETAIL DIMENSIONS (FT)																
BAR MARK	NO.	LENGTH	TYPE	WEIGHT (LB)	A	B	C	D	E	F	G	H / H1	H2	J	K / K1	K2	L	O	R		
5SG01	220	5'-6"	N1	1263														5'-6"			
5SG02	110	4'-6"	N2	517		1'-6"	1'-6"	1'-6"													
5SG03	34	52'-4.75"	N3	1858														52'-4.75"			
SUBTOTAL GALVANIZED BARS				3638	lb																

SLEEPER SLAB (NORTH BOUND) BAR LIST					DETAIL DIMENSIONS (FT)																
BAR MARK	NO.	LENGTH	TYPE	WEIGHT (LB)	A	B	C	D	E	F	G	H / H1	H2	J	K / K1	K2	L	O	R		
5SG01	220	5'-6"	N1	1263														5'-6"			
5SG02	110	4'-6"	N2	517		1'-6"	1'-6"	1'-6"													
5SG03	34	52'-4.75"	N3	1858														52'-4.75"			
SUBTOTAL GALVANIZED BARS				3638	lb																

ALTERED BY:
ON:

AFFIX SEAL: Yogendra Gauchan
ON: 01/24/2024



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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



Thruway Authority

Engineering and Land Surveying, P.C.

TITLE OF PROJECT I-87 OVER WALLKILL RIVER BRIDGE REHABILITATION	CONTRACT NUMBER: TAA 23-25B
LOCATION OF PROJECT ALBANY DIVISION MP 61.72 - BIN 5041189	DATE: 01/24/2024
TITLE OF DRAWING BAR LIST-3	DRAWING NUMBER: ST-63

LEFT BARRIER (NORTHBOUND) BAR LIST						DETAIL DIMENSIONS (FT)															
BAR MARK	NO.	LENGTH	TYPE	WEIGHT (LB)		A	B	C	D	E	F	G	H / H1	H2	J	K / K1	K2	L	O	R	
5BG01	583	3'-3"	N1	1977																3'-3"	
5BG02	551	14'-10.5"	13	8549			3'-2"	0'-8.8"	2'-9.8"			0'-0"	1'-1.5"		0'-0"	3'-1.3"		0'-7.5"	3'-0.8"	0'-3"	
5BG03	32	6'-6.3"	13	218			2'-11"	0'-9.5"	2'-9.8"			0'-0"	1'-1.5"		0'-0"	2'-10.5"		0'-7.5"	3'-0.8"		
5BG04	18	3'-11.4"	S11	75									1'-10"							0'-6"	
5BG05*	18	6'-5.4"	S11	122									3'-1"								
5BG06	10	5'-9.4"	T5	61		0'-7"	5'-4"								0'-5"						
6BG01	598	4'-1"	17	3668			1'-0"	3'-1"	0'-0"												
6BG02	32	4'-1"	17	197			1'-0"	3'-1"	0'-0"												
6BG03	18	4'-0.2"	N20	109			2'-0"	1'-0.2"	1'-0"				1'-5"	0'-8.3"		1'-5"	0'-8.8"				
7BG01	72	60'-0"	N1	8831																60'-0"	
7BG02	12	54'-8"	N1	1341																	54'-8"
* LENGTH VARIES FROM 2'-10" TO 3'-4"																					
SUBTOTAL GALVANIZED BARS					25148	lb															

RIGHT BARRIER (NORTHBOUND) BAR LIST						DETAIL DIMENSIONS (FT)															
BAR MARK	NO.	LENGTH	TYPE	WEIGHT (LB)		A	B	C	D	E	F	G	H / H1	H2	J	K / K1	K2	L	O	R	
5BG01	583	3'-3"	N1	1977																3'-3"	
5BG02	551	14'-10.5"	13	8549			3'-2"	0'-8.8"	2'-9.8"			0'-0"	1'-1.5"		0'-0"	3'-1.3"		0'-7.5"	3'-0.8"	0'-3"	
5BG03	32	6'-6.3"	13	218			2'-11"	0'-9.5"	2'-9.8"			0'-0"	1'-1.5"		0'-0"	2'-10.5"		0'-7.5"	3'-0.8"		
5BG04	18	3'-11.4"	S11	75									1'-10"							0'-6"	
5BG05*	18	6'-2"	S11	116									3'-1"								
5BG06	10	5'-9.4"	T5	61		0'-7"	5'-4"								0.42'						
6BG01	598	4'-1"	17	3668			1'-0"	3'-1"	0'-0"												
6BG02	32	4'-1"	17	197			1'-0"	3'-1"	0'-0"												
6BG03	18	4'-0.2"	N20	109			2'-0"	1'-0.2"	1'-0"				1'-5"	0'-8.3"		1'-5"	0'-8.8"				
7BG01	72	60'-0"	N1	8831																60'-0"	
7BG02	12	54'-8"	N1	1341																	54'-8"
* LENGTH VARIES FROM 2'-10" TO 3'-4"																					
SUBTOTAL GALVANIZED BARS					25142	lb															


LEFT BARRIER (SOUTHBOUND) BAR LIST						DETAIL DIMENSIONS (FT)															
BAR MARK	NO.	LENGTH	TYPE	WEIGHT (LB)		A	B	C	D	E	F	G	H / H1	H2	J	K / K1	K2	L	O	R	
5BG01	583	3'-3"	N1	1977																3'-3"	
5BG02	551	14'-10.5"	13	8549			3'-2"	0'-8.8"	2'-9.8"			0'-0"	1'-1.5"		0'-0"	3'-1.3"		0'-7.5"	3'-0.8"	0'-3"	
5BG03	32	6'-6.3"	13	218			2'-11"	0'-9.5"	2'-9.8"			0'-0"	1'-1.5"		0'-0"	2'-10.5"		0'-7.5"	3'-0.8"		
5BG04	18	3'-11.4"	S11	75									1'-10"							0'-6"	
5BG05*	18	6'-2"	S11	116									3'-1"								
5BG06	10	5'-9.4"	T5	61		0'-7"	5'-4"								0.42'						
6BG01	598	4'-1"	17	3668			1'-0"	3'-1"	0'-0"												
6BG02	32	4'-1"	17	197			1'-0"	3'-1"	0'-0"												
6BG03	18	4'-0.2"	N20	109			2'-0"	1'-0.2"	1'-0"				1'-5"	0'-8.3"		1'-5"	0'-8.8"				
7BG01	72	60'-0"	N1	8831																60'-0"	
7BG02	12	54'-8"	N1	1341																	54'-8"
* LENGTH VARIES FROM 2'-10" TO 3'-4"																					
SUBTOTAL GALVANIZED BARS					25142	lb															

RIGHT BARRIER (SOUTHBOUND) BAR LIST						DETAIL DIMENSIONS (FT)															
BAR MARK	NO.	LENGTH	TYPE	WEIGHT (LB)		A	B	C	D	E	F	G	H / H1	H2	J	K / K1	K2	L	O	R	
5BG01	583	3'-3"	N1	1977																3'-3"	
5BG02	551	14'-10.5"	13	8549			3'-2"	0'-8.8"	2'-9.8"			0'-0"	1'-1.5"		0'-0"	3'-1.3"		0'-7.5"	3'-0.8"	0'-3"	
5BG03	32	6'-6.3"	13	218			2'-11"	0'-9.5"	2'-9.8"			0'-0"	1'-1.5"		0'-0"	2'-10.5"		0'-7.5"	3'-0.8"		
5BG04	18	3'-11.4"	S11	75									1'-10"							0'-6"	
5BG05*	18	6'-2"	S11	116									3'-1"								
5BG06	10	5'-9.4"	T5	61		0'-7"	5'-4"								0.42'						
6BG01	598	4'-1"	17	3668			1'-0"	3'-1"	0'-0"												
6BG02	32	4'-1"	17	197			1'-0"	3'-1"	0'-0"												
6BG03	18	4'-0.2"	N20	109			2'-0"	1'-0.2"	1'-0"				1'-5"	0'-8.3"		1'-5"	0'-8.8"				
7BG01	72	60'-0"	N1	8831																60'-0"	
7BG02	12	54'-8"	N1	1341																	54'-8"
* LENGTH VARIES FROM 2'-10" TO 3'-4"																					
SUBTOTAL GALVANIZED BARS					25142	lb															


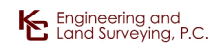
BEGIN AND END ABUTMENT (NB & SB) COUNTERWEIGHT BAR LIST						DETAIL DIMENSIONS (FT)															
BAR MARK	NO.	LENGTH	TYPE	WEIGHT (LB)		A	B	C	D	E	F	G	H / H1	H2	J	K / K1	K2	L	O	R	
6CG01	64	19'-7.1"	N1	1884																19'-7.1"	
6CG02	64	13'-7.1"	N1	1307																13'-7.1"	
6CG03	192	15'-7.1"	N1	4497																15'-7.1"	
6CG04	64	23'-8.9"	N1	2283																23'-8.9"	
6CG05	32	21'-8"	N1	1042																21'-8"	
6CG06	24	17'-6.2"	N1	632																17'-6.2"	
6CG07	24	15'-8"	N1	565																15'-8"	
6CG08	24	11'-6.3"	N1	416																11'-6.3"	
6CG09	72	17'-4"	N1	1875																17'-4"	
6CG10	72	13'-6.3"	N1	1463																13'-6.3"	
6CG11	24	25'-9.8"	N1	931																25'-9.8"	
6CG12	904	9'-3"	17	12560				1'-1.5"	7'-0"	1'-1.5"											
6CG13	192	9'-7.7"	17	2782				1'-1.5"	7'-4.8"	1'-1.5"											
6CG14	144	10'-0.5"	17	2172				1'-1.5"	7'-9.5"	1'-1.5"											
6CG15	1234	4'-9"	N1	8804																4'-9"	
SUBTOTAL GALVANIZED BARS					43213	lb															

ALTERED BY:
ON:

AFFIX SEAL: Yogendra Gauchan
ON: 01/24/2024



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REVISIONS				DATE	DESCRIPTION	BY	SYM.	 Thruway Authority	TITLE OF PROJECT I-87 OVER WALLKILL RIVER BRIDGE REHABILITATION	CONTRACT NUMBER: TAA 23-25B
NO.	DATE	DESCRIPTION	BY							
									LOCATION OF PROJECT ALBANY DIVISION MP 61.72 - BIN 5041189	DATE: 01/24/2024
								 Engineering and Land Surveying, P.C.	TITLE OF DRAWING BAR LIST-4	DRAWING NUMBER: ST-64