

February 9, 2026

NYSDOS Coastal Management Program
Office of Planning and Development – Consistency Review Unit
New York State Department of State
One Commerce Plaza
99 Washington Avenue
Albany, New York 12231-0001
Via E-mail: cr@dos.ny.gov

Re: Federal Aid Notification (FAN) Letter
Rehabilitation of Half Moon Bay Bridge Project
PIN: 8763.05
Half Moon Bay Drive, Village of Croton-on-Hudson, Town of Cortlandt, Westchester County, NY

To Whom It May Concern,

This letter serves as the FAN for the Rehabilitation of Half Moon Bay Bridge Project (Project). The Project is considered a New York State Department of Transportation (NYSDOT) activity that will be funded with Federal Community Project Funding (CPF). The Village of Croton-on-Hudson is the sponsor of this federally funded transportation project. The Project will involve the rehabilitation of a vehicular bridge that spans above the MTA Metro North Hudson Line, approximately 50 feet north of the Croton-Harmon Train Station, on Half Moon Bay Drive in the Village of Croton-on-Hudson, Town of Cortlandt, Westchester County, New York. Project location maps are included in **Attachment A** and Project plans are included in **Attachment B**. The Project will include: concrete deck and sidewalk replacement on the bridge, bridge rail and fence replacement, structural steel repair and recoating, substructure concrete repairs (minimal ground excavation is anticipated), new approach roadway slab, approach sidewalk replacement, and final paving of the Project limits. Staged construction is anticipated and full road closure is not anticipated at this time. A minimum of one lane of vehicular access will be maintained to facilitate public access to Senasqua Park and adjacent waterfront access points. No right-of-way or property acquisition is anticipated.

Based on a review of the New York State Coastal Atlas, the Project is located in the New York State Coastal Area and the Village of Croton-on-Hudson Local Waterfront Revitalization Program (LWRP) area. The Village of Croton-on-Hudson adopted its initial LWRP in 1992 to guide development within its waterfront revitalization area in a way that protects and preserves natural resources and enhances public enjoyment of the waterfront. The Project solely involves rehabilitation of an existing vehicular bridge and associated rehabilitation-related activities and will not impact coastal waters or coastal resources. The proposed work will provide the public with continued access to the waterfront via Half Moon Bay Drive. The Project is consistent with the policies set forth in the Village of Croton-on-Hudson LWRP and the New York State Coastal Management Program Coastal Policies and will be completed in conformance with the Village of Croton-on-Hudson LWRP and New York State Coastal Management Program Coastal Policies.

This project is being processed as a SEQRA Type II Action in accordance with 6 NYCRR Part 617, in which the Village of Croton-on-Hudson will be the lead agency. Specifically, this action meets the description in 6 NYCRR Part 617.5 (2) “replacement, rehabilitation or reconstruction of a structure or facility, in kind, on the same site, including upgrading buildings to meet building, energy, or fire codes unless such action meets or exceeds any of the thresholds in section 617.4 of this Part.” Therefore, in accordance with the NYSDOT Transportation Environmental Manual (TEM) Section 4.4.6 – Coastal Resources, a Coastal Assessment Form (CAF) is not required. Additionally, since the Project does not require federal permits, a Federal Coastal Assessment Form (FCAF) is not required.

If you need additional information or have any questions about the Project, feel free to contact me via e-mail at ccamacho@tectonicengineering.com or by phone at (914) 584-1088.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Camacho". The signature is fluid and cursive, with the first name and last name clearly distinguishable.

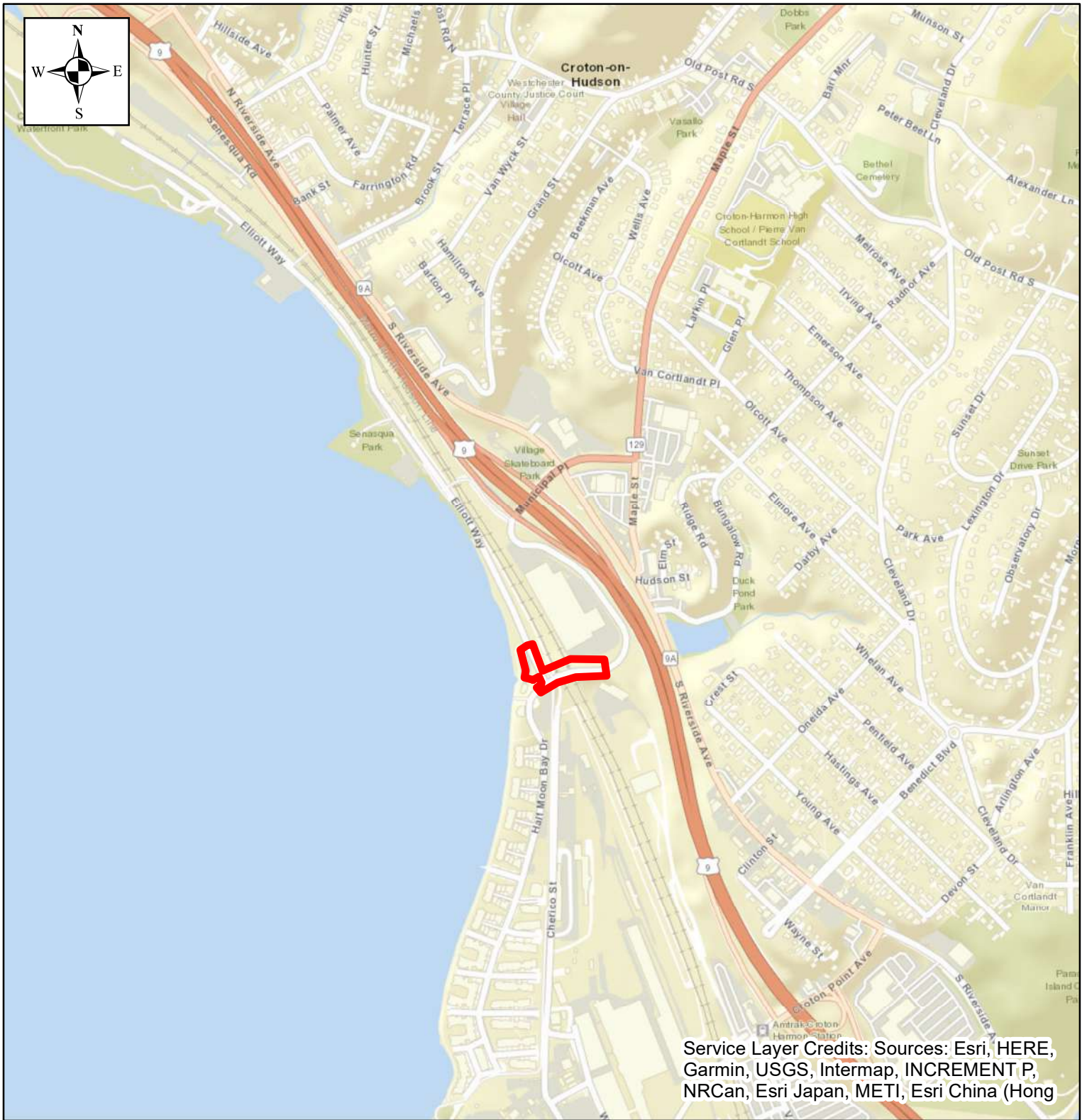
Chris Camacho
Environmental Scientist
Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.

Enclosures:

Attachment A: Project Location Maps

Attachment B: Project Plans

ATTACHMENT A
Project Location Maps



Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCAN, Esri Japan, METI, Esri China (Hong

Legend

 Approximate Project Area Boundary

0 250 500 1,000 Feet

1:10,000

Rehabilitation of Half Moon Bay Bridge Project
Half Moon Bay Drive
Croton-on-Hudson, New York

Street Map



Date: 2/2/2026
Project #: 12530.01
Location: Croton-on-Hudson, NY

PO Box 37, 70 Pleasant Hill Rd.
Mountainville, New York 10953
Phone: (845) 534-5959


Attachment 6

Document Path:



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community


Legend

 Approximate Project Area Boundary

0 125 250 500 Feet 1:4,000

Rehabilitation of Half Moon Bay Bridge Project
Half Moon Bay Drive
Croton-on-Hudson, New York

Aerial Map

| | |
|--|---|
|  | Date: 2/2/2026 Project #: 12530.01 Location: Croton-on-Hudson, NY |
| | Attachment 6 |

PO Box 37, 70 Pleasant Hill Rd.
Mountainville, New York 10953
Phone: (845) 534-5959

Document Path:



Service Layer Credits; Copyright:© 2013 National Geographic Society, i-cubed

Rehabilitation of Half Moon Bay Bridge Project
Half Moon Bay Drive
Croton-on-Hudson, New York

Topographic Map

Tectonic

Date: 2/2/2026
Project #: 12530.01
Location: Croton-on-Hudson, NY

PO Box 37, 70 Pleasant Hill Rd.
Mountainville, New York 10953
Phone: (845) 534-5959






Attachment 6

Document Path:



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Legend

-  Approximate Project Area Boundary
-  NSYDOS Coastal Area
-  LWRP Communities
-  Long Island CMP
-  Scenic Areas of Statewide Significance

0 250 500 1,000 Feet

1:10,000

Rehabilitation of Half Moon Bay Bridge Project
Half Moon Bay Drive
Croton-on-Hudson, New York

NYS DOS Coastal Boundary Map



Date: 2/2/2026
Project #: 12530.01
Location: Croton-on-Hudson, NY

PO Box 37, 70 Pleasant Hill Rd.
Mountainville, New York 10953
Phone: (845) 534-5959

Attachment 6

Document Path:

ATTACHMENT B
Project Plans

REHABILITATION OF HALF MOON BAY BRIDGE VILLAGE OF CROTON-ON-HUDSON COUNTY OF WESTCHESTER STATE OF NEW YORK



LOCATION MAP
N.T.S.

| DRAWING INDEX | |
|---------------|--|
| DRAWING # | DRAWING TITLE |
| S0 | TITLE SHEET AND GENERAL NOTES |
| S1 | EXISTING SURVEY PLAN |
| S2 | GENERAL PLAN AND ELEVATION |
| S3 | SUBSTRUCTURE REHABILITATION STAGING SECTIONS |
| S4 | BRIDGE LONGITUDINAL PROFILE |
| S5 | FRAMING PLAN |
| S6 | TYPICAL BRIDGE SECTION |
| S7 | CONCRETE DETERIORATION – ABUTMENTS |
| S8 | CONCRETE DETERIORATION – PIER 1 |
| S9 | CONCRETE DETERIORATION – PIER 2 |
| S10 | CONCRETE DETERIORATION – WALLS ABOVE ABUTMENTS |
| S11 | CONCRETE DETERIORATION – APPROACH WALLS |
| S12 | CONCRETE DETERIORATION – REPAIR DETAILS |
| S13 | WORK ZONE TRAFFIC CONTROL – STAGE 1 |
| S14 | WORK ZONE TRAFFIC CONTROL – STAGE 2 |

THIS DOCUMENT IS PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, ALTERATION, REVISION, DUPLICATION, OR USE WITHOUT THE CONSENT OF TECTONIC ENGINEERING IS PROHIBITED. COPYRIGHT 2021 TECTONIC ENGINEERING. ALL RIGHTS RESERVED.

COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL EMBOSSED SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.

ORIGINAL SIZE IN INCHES

| Rev | Date | Revision | Approved |
|-----|------|----------|----------|
| | | | |

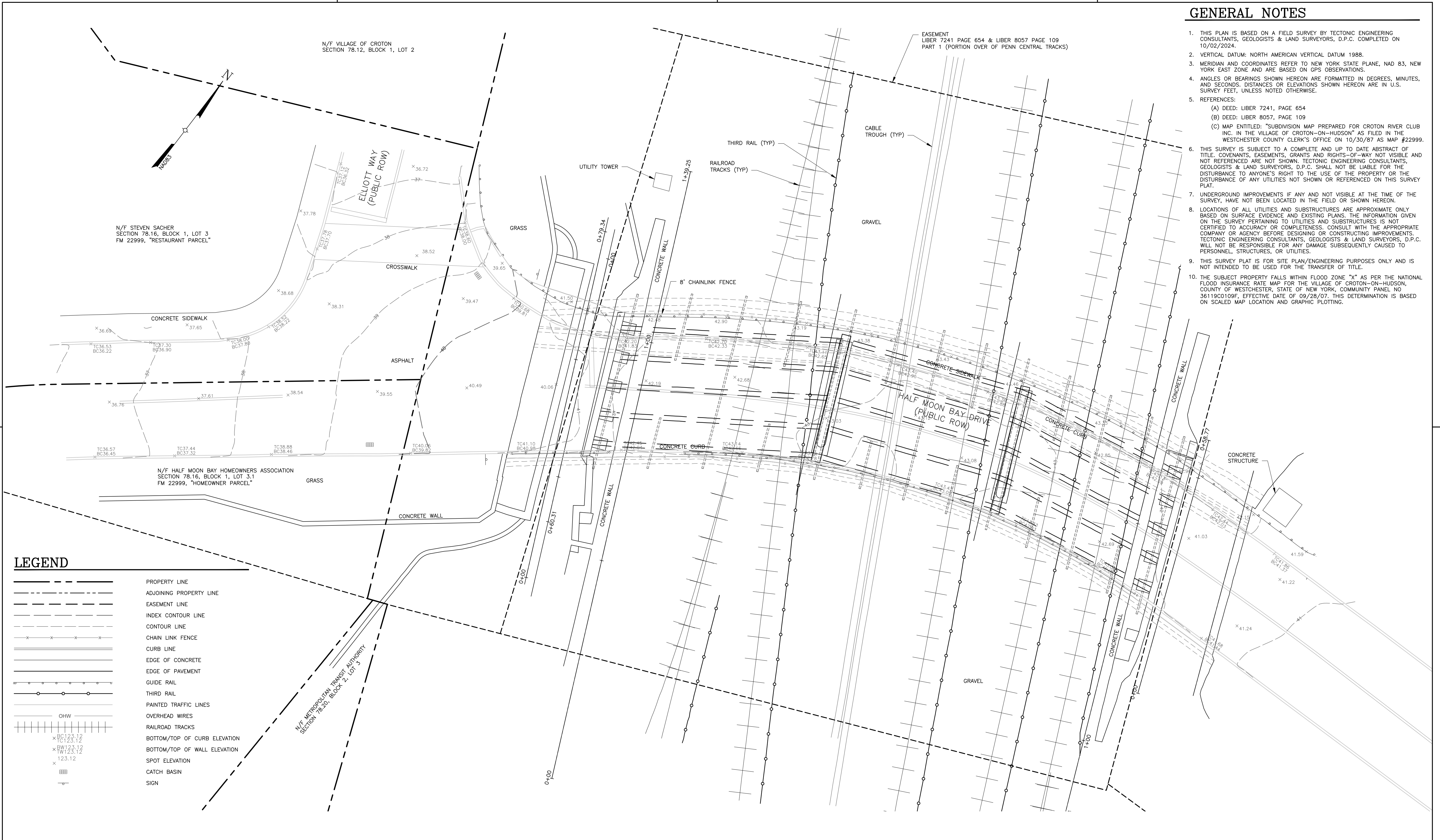
| DRAWING CONTROL | | | |
|-----------------------|------------------|--------------|-----|
| Designed by: | MHS | Drawn by: | KRF |
| Checked by: | JAS | Released by: | |
| Purpose | | Date | |
| <input type="radio"/> | For Comment | | |
| <input type="radio"/> | For Approval | | |
| <input type="radio"/> | For Bid | | |
| <input type="radio"/> | For Construction | | |

Practical Solutions. Exceptional Service.
 Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
 70 Pleasant Hill Road Phone: (845) 334-5959
 P.O. Box 37 (800) 829-6531
 Mountainville, NY 10953 www.tectonicengineering.com
 Project Contact Info
 1344 Silas Deane Highway
 Suite 500
 Rocky Hill, CT 06067 Phone: (860) 563-2341

| TITLE SHEET | | | |
|---|----------|------------|-------------|
| REHABILITATION OF HALF MOON BAY BRIDGE OVER METRO NORTH RAILROAD YARD VILLAGE OF CROTON-ON-HUDSON COUNTY OF WESTCHESTER, STATE OF NEW YORK | | | |
| Date | MM/DD/25 | Work Order | Drawing No. |
| Scale | N.T.S. | 12530.01 | S0 |
| | | | Rev |

GENERAL NOTES

- THIS PLAN IS BASED ON A FIELD SURVEY BY TECTONIC ENGINEERING CONSULTANTS, GEOLOGISTS & LAND SURVEYORS, D.P.C. COMPLETED ON 10/02/2024.
- VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM 1988.
- MERIDIAN AND COORDINATES REFER TO NEW YORK STATE PLANE, NAD 83, NEW YORK EAST ZONE AND ARE BASED ON GPS OBSERVATIONS.
- ANGLES OR BEARINGS SHOWN HEREON ARE FORMATTED IN DEGREES, MINUTES, AND SECONDS. DISTANCES OR ELEVATIONS SHOWN HEREON ARE IN U.S. SURVEY FEET, UNLESS NOTED OTHERWISE.
- REFERENCES:
 - (A) DEED: LIBER 7241, PAGE 654
 - (B) DEED: LIBER 8057, PAGE 109
 - (C) MAP ENTITLED: "SUBDIVISION MAP PREPARED FOR CROTON RIVER CLUB INC. IN THE VILLAGE OF CROTON-ON-HUDSON" AS FILED IN THE WESTCHESTER COUNTY CLERK'S OFFICE ON 10/30/87 AS MAP #22999.
- THIS SURVEY IS SUBJECT TO A COMPLETE AND UP TO DATE ABSTRACT OF TITLE. COVENANTS, EASEMENTS, GRANTS AND RIGHTS-OF-WAY NOT VISIBLE AND NOT REFERENCED ARE NOT SHOWN. TECTONIC ENGINEERING CONSULTANTS, GEOLOGISTS & LAND SURVEYORS, D.P.C. SHALL NOT BE LIABLE FOR THE DISTURBANCE TO ANYONE'S RIGHT TO THE USE OF THE PROPERTY OR THE DISTURBANCE OF ANY UTILITIES NOT SHOWN OR REFERENCED ON THIS SURVEY PLAT.
- UNDERGROUND IMPROVEMENTS IF ANY AND NOT VISIBLE AT THE TIME OF THE SURVEY, HAVE NOT BEEN LOCATED IN THE FIELD OR SHOWN HEREON.
- LOCATIONS OF ALL UTILITIES AND SUBSTRUCTURES ARE APPROXIMATE ONLY BASED ON SURFACE EVIDENCE AND EXISTING PLANS. THE INFORMATION GIVEN ON THE SURVEY PERTAINING TO UTILITIES AND SUBSTRUCTURES IS NOT CERTIFIED TO ACCURACY OR COMPLETENESS. CONSULT WITH THE APPROPRIATE COMPANY OR AGENCY BEFORE DESIGNING OR CONSTRUCTING IMPROVEMENTS. TECTONIC ENGINEERING CONSULTANTS, GEOLOGISTS & LAND SURVEYORS, D.P.C. WILL NOT BE RESPONSIBLE FOR ANY DAMAGE SUBSEQUENTLY CAUSED TO PERSONNEL, STRUCTURES, OR UTILITIES.
- THIS SURVEY PLAT IS FOR SITE PLAN/ENGINEERING PURPOSES ONLY AND IS NOT INTENDED TO BE USED FOR THE TRANSFER OF TITLE.
- THE SUBJECT PROPERTY FALLS WITHIN FLOOD ZONE "X" AS PER THE NATIONAL FLOOD INSURANCE RATE MAP FOR THE VILLAGE OF CROTON-ON-HUDSON, COUNTY OF WESTCHESTER, STATE OF NEW YORK, COMMUNITY PANEL NO 36119C0109F, EFFECTIVE DATE OF 09/28/07. THIS DETERMINATION IS BASED ON SCALED MAP LOCATION AND GRAPHIC PLOTTING.



LEGEND

- PROPERTY LINE
- ADJOINING PROPERTY LINE
- EASEMENT LINE
- INDEX CONTOUR LINE
- CONTOUR LINE
- CHAIN LINK FENCE
- CURB LINE
- EDGE OF CONCRETE
- EDGE OF PAVEMENT
- GUIDE RAIL
- THIRD RAIL
- PAINTED TRAFFIC LINES
- OVERHEAD WIRES
- RAILROAD TRACKS
- BOTTOM/TOP OF CURB ELEVATION
- BOTTOM/TOP OF WALL ELEVATION
- SPOT ELEVATION
- CATCH BASIN
- SIGN

COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL EMBOSSED SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.

THIS DOCUMENT IS PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, ALTERATION, REVISION, DUPLICATION, OR USE WITHOUT THE CONSENT OF TECTONIC ENGINEERING IS PROHIBITED. COPYRIGHT 2021 TECTONIC ENGINEERING. ALL RIGHTS RESERVED.

0 1 2 3
ORIGINAL SIZE IN INCHES

| Rev | Date | Revision | Approved |
|-----|------|----------|----------|
| | | | |

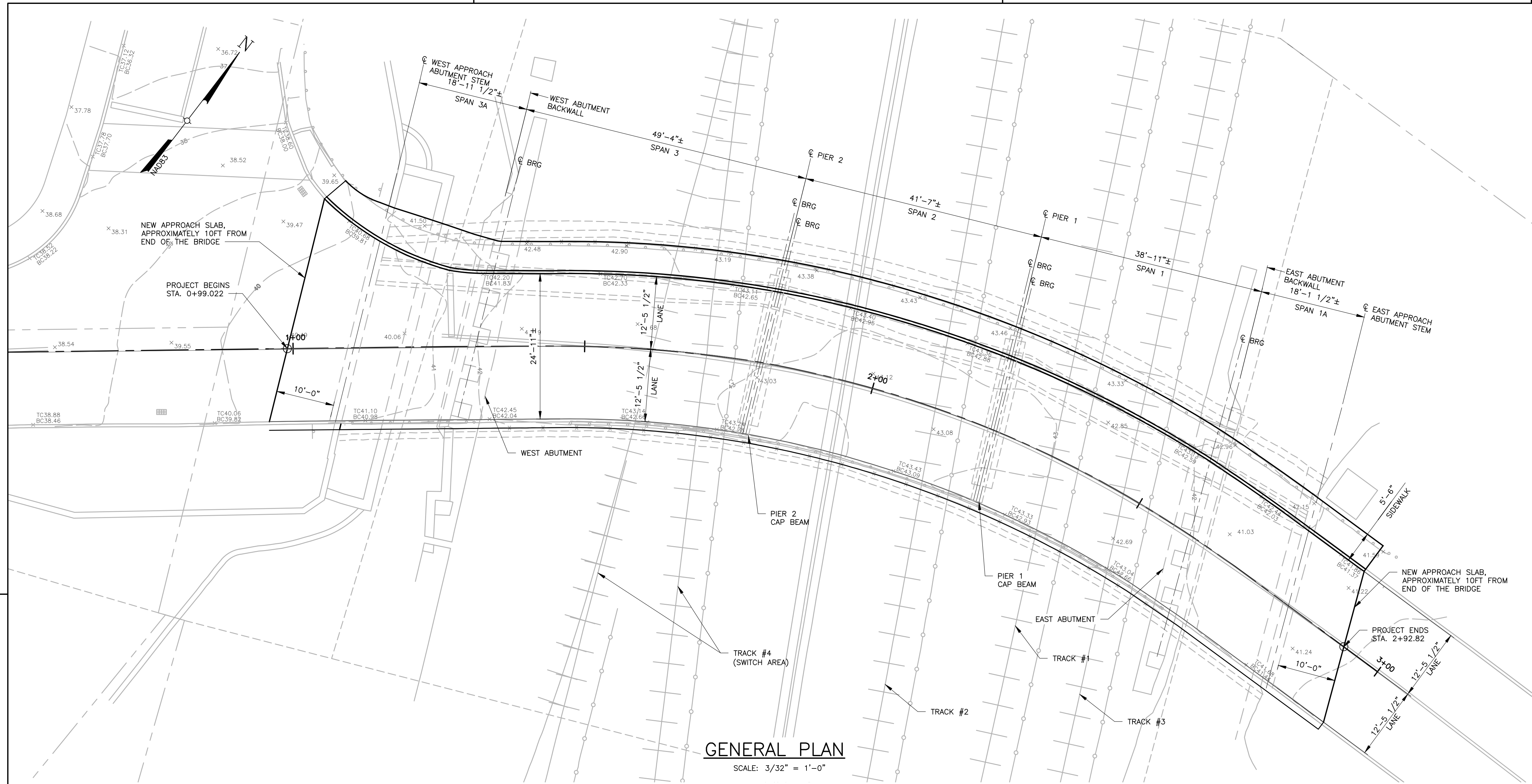
| DRAWING CONTROL | | | |
|--|-----|--------------|-------|
| Designed by: | MHS | Drawn by: | KRF |
| Checked by: | JAS | Released by: | |
| Purpose: | | | Date: |
| <input type="radio"/> For Comment | | | |
| <input type="radio"/> For Approval | | | |
| <input type="radio"/> For Bid | | | |
| <input type="radio"/> For Construction | | | |

Tectonic
PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.

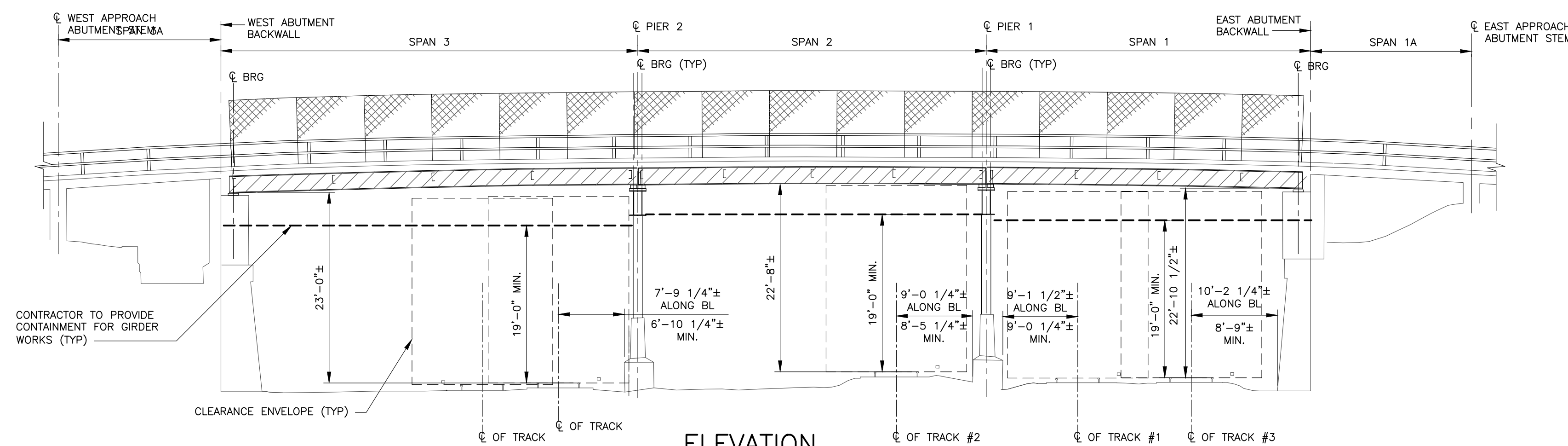
Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
70 Pleasant Hill Road Phone: (845) 534-5959
P.O. Box 37 (800) 829-6531
Mountainville, NY 10953 www.tectonicengineering.com

Project Contact Info
1344 Silas Deane Highway
Suite 500
Rocky Hill, CT 06067 Phone: (860) 563-2341

| EXISTING SURVEY PLAN | | | | |
|--|-------------|------------|-------------|-----|
| REHABILITATION OF HALF MOON BAY BRIDGE OVER METRO NORTH RAILROAD YARD VILLAGE OF CROTON-ON-HUDSON COUNTY OF WESTCHESTER, STATE OF NEW YORK | | | | |
| Date | MM/DD/25 | Work Order | Drawing No. | Rev |
| Scale | 1" = 10'-0" | 12530.01 | S1 | |



GENERAL PLAN
SCALE: 3/32" = 1'-0"

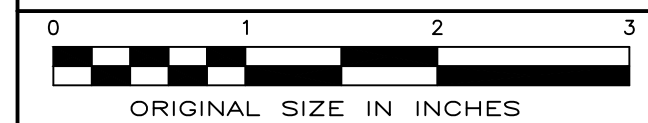


ELEVATION
SCALE: 3/32" = 1'-0"

LEGEND

LIMIT OF PAINT REMOVAL AND RECOATING AT EXISTING GIRDERS, DIAPHRAGMS, OVERHANG UTILITY SUPPORT BEAMS, AND RELATED CONNECTION

COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL EMBOSSED SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.



THIS DOCUMENT IS PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, ALTERATION, REVISION, DUPLICATION, OR USE WITHOUT THE CONSENT OF TECTONIC ENGINEERING IS PROHIBITED. COPYRIGHT 2021 TECTONIC ENGINEERING. ALL RIGHTS RESERVED.

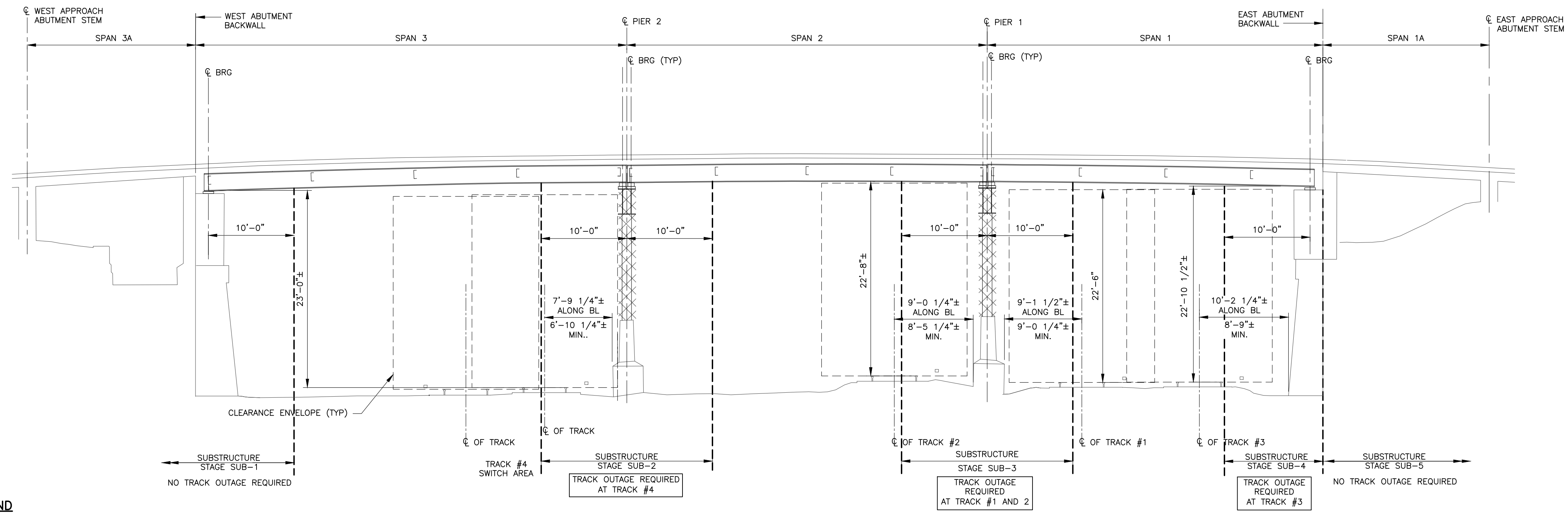
| Rev | Date | Revision | Approved |
|-----|------|----------|----------|
| | | | |

| DRAWING CONTROL | | | |
|--|-----|--------------|-----|
| Designed by: | MHS | Drawn by: | KRF |
| Checked by: | JAS | Released by: | |
| Purpose: | | Date: | |
| <input type="radio"/> For Comment | | | |
| <input type="radio"/> For Approval | | | |
| <input type="radio"/> For Bid | | | |
| <input type="radio"/> For Construction | | | |



Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
70 Pleasant Hill Road Phone: (845) 334-5959
P.O. Box 37 (800) 829-6531
Mountairville, NY 10953 www.tectonicengineering.com
Project Contact Info
1344 Silas Deane Highway
Rocky Hill, CT 06067 Phone: (860) 563-2341

| GENERAL PLAN AND ELEVATION | | | |
|--|------------|-------------|-----|
| REHABILITATION OF HALF MOON BAY BRIDGE OVER METRO NORTH RAILROAD YARD VILLAGE OF CROTON-ON-HUDSON COUNTY OF WESTCHESTER, STATE OF NEW YORK | | | |
| Date | Work Order | Drawing No. | Rev |
| MM/DD/25 | 12530.01 | S2 | |
| Scale | AS SHOWN | | |



SUBSTRUCTURE REHABILITATION STAGES

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

LEGEND
 LIMIT OF PAINT REMOVAL AND RECOATING AT EXISTING PIER STEEL COMPONENTS

THIS DOCUMENT IS PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, ALTERATION, REVISION, DUPLICATION, OR USE WITHOUT THE CONSENT OF TECTONIC ENGINEERING IS PROHIBITED. COPYRIGHT 2021 TECTONIC ENGINEERING. ALL RIGHTS RESERVED.

COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL EMBOSSED SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.

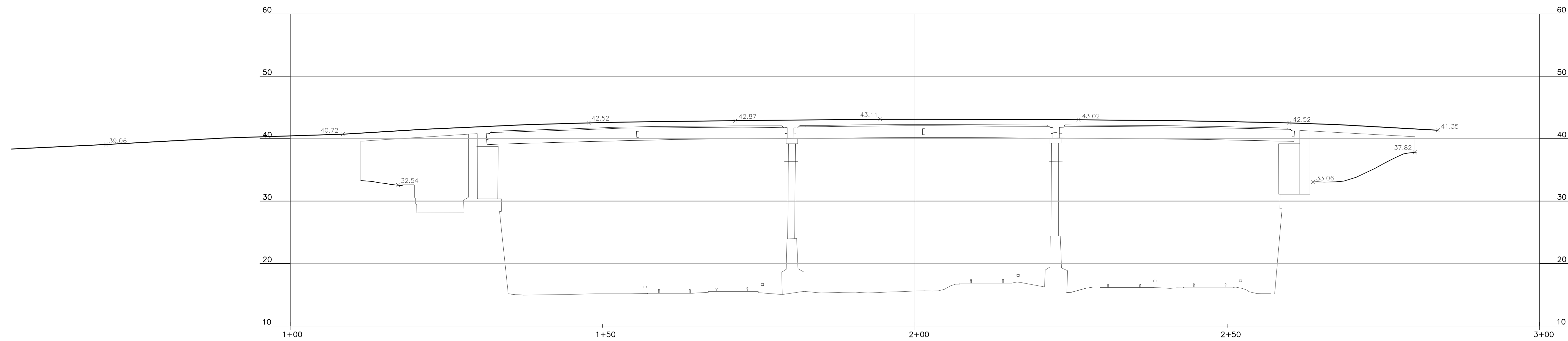
ORIGINAL SIZE IN INCHES

| Rev | Date | Revision | Approved |
|-----|------|----------|----------|
| | | | |

| DRAWING CONTROL | | | |
|--|---------------|-----------------|------|
| Designed by: MHS | Drawn by: KRF | Checked by: JAS | |
| Purpose | | Released by: | Date |
| <input type="radio"/> For Comment | | | |
| <input type="radio"/> For Approval | | | |
| <input type="radio"/> For Bid | | | |
| <input type="radio"/> For Construction | | | |

Tectonic
 PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.
 Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
 70 Pleasant Hill Road Phone: (845) 334-5959
 P.O. Box 37 (800) 829-6531
 Mountainville, NY 10953 www.tectonicengineering.com
 Project Contact Info
 1344 Silas Deane Highway
 Suite 500
 Rocky Hill, CT 06067 Phone: (860) 563-2341

| SUBSTRUCTURE REHABILITATION STAGING SECTIONS | | | |
|---|----------|------------|-------------|
| REHABILITATION OF HALF MOON BAY BRIDGE OVER METRO NORTH RAILROAD YARD VILLAGE OF CROTON-ON-HUDSON COUNTY OF WESTCHESTER, STATE OF NEW YORK | | | |
| Date | MM/DD/25 | Work Order | Drawing No. |
| Scale | AS SHOWN | 12530.01 | S3 |



PROFILE
SCALE: 1" = 10'-0"

THIS DOCUMENT IS PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, ALTERATION, REVISION, DUPLICATION, OR USE WITHOUT THE CONSENT OF TECTONIC ENGINEERING IS PROHIBITED. COPYRIGHT 2021 TECTONIC ENGINEERING. ALL RIGHTS RESERVED.

COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL EMBOSSED SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.

ORIGINAL SIZE IN INCHES

| Rev | Date | Revision | Approved |
|-----|------|----------|----------|
| | | | |

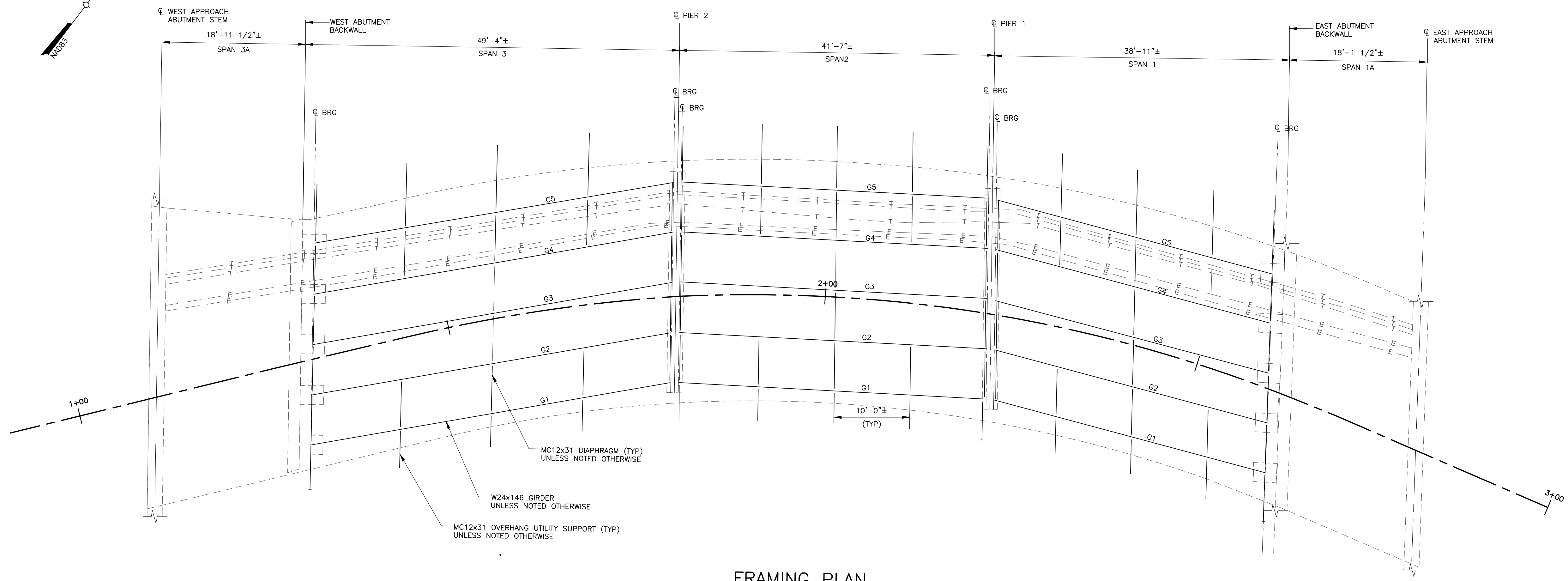
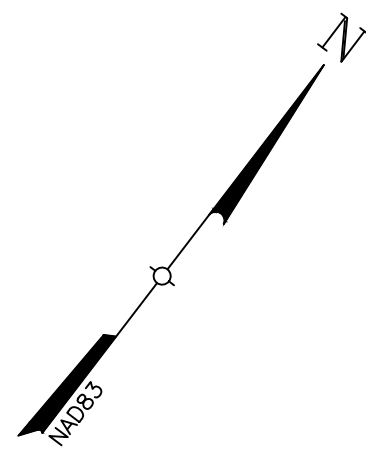
| DRAWING CONTROL | | | |
|--|-------------|-------------|------|
| Designed by: | MHS | Drawn by: | KRF |
| | | Checked by: | JAS |
| Purpose | Released by | | Date |
| <input type="radio"/> For Comment | | | |
| <input type="radio"/> For Approval | | | |
| <input type="radio"/> For Bid | | | |
| <input type="radio"/> For Construction | | | |

Tectonic
PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.

Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
70 Pleasant Hill Road Phone: (845) 334-5959
P.O. Box 37 (800) 829-6531
Mountainville, NY 10953 www.tectonicengineering.com

Project Contact Info
1344 Silas Deane Highway
Suite 500
Rocky Hill, CT 06067 Phone: (860) 563-2341

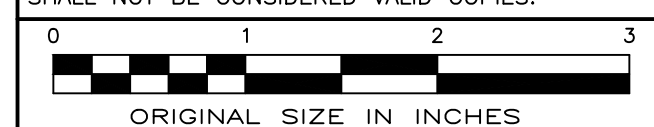
| BRIDGE LONGITUDINAL PROFILE | | | |
|---|----------|------------|-------------|
| REHABILITATION OF HALF MOON BAY BRIDGE OVER METRO NORTH RAILROAD YARD VILLAGE OF CROTON-ON-HUDSON COUNTY OF WESTCHESTER, STATE OF NEW YORK | | | |
| Date | MM/DD/25 | Work Order | Drawing No. |
| Scale | AS SHOWN | 12530.01 | S4 |



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

THIS DOCUMENT IS PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, ALTERATION, REVISION, DUPLICATION, OR USE WITHOUT THE CONSENT OF TECTONIC ENGINEERING IS PROHIBITED. COPYRIGHT 2021 TECTONIC ENGINEERING. ALL RIGHTS RESERVED.

COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL EMBOSSED SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.



| Rev | Date | Revision | Approved |
|-----|------|----------|----------|
| | | | |

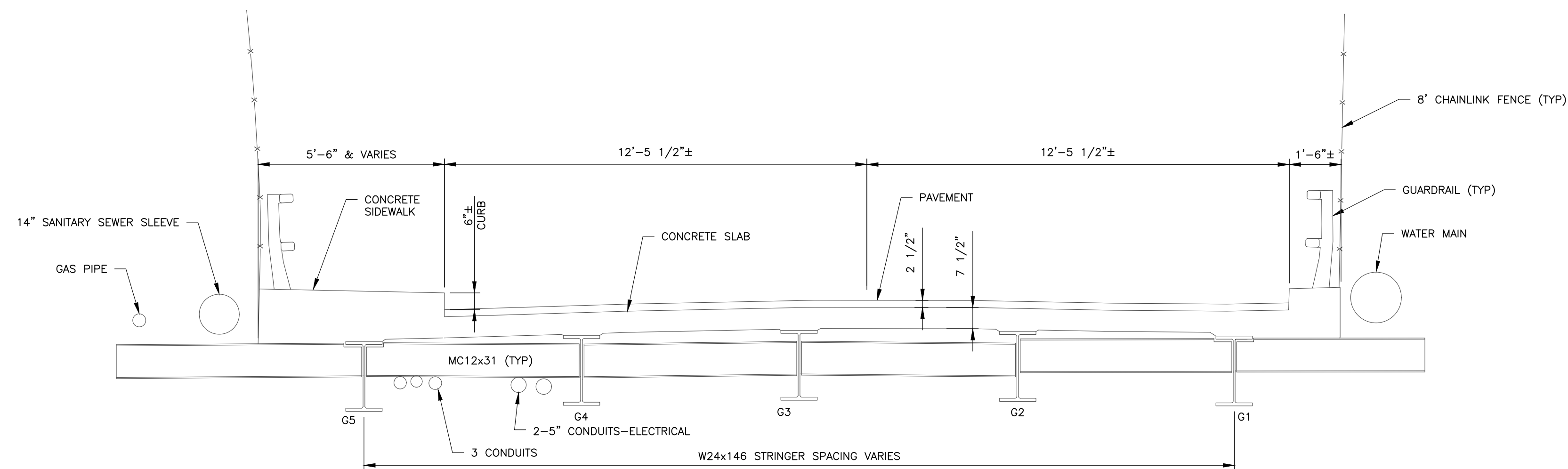
| DRAWING CONTROL | | | |
|--|---------------|-----------------|--|
| Designed by: MHS | Drawn by: KRF | Checked by: JAS | |
| Purpose: | Released by: | Date: | |
| <input type="radio"/> For Comment | | | |
| <input type="radio"/> For Approval | | | |
| <input type="radio"/> For Bid | | | |
| <input type="radio"/> For Construction | | | |

Tectonic
PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.

Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
70 Pleasant Hill Road Phone: (845) 334-5959
P.O. Box 37 (800) 829-6531
Mountainville, NY 10953 www.tectonicengineering.com

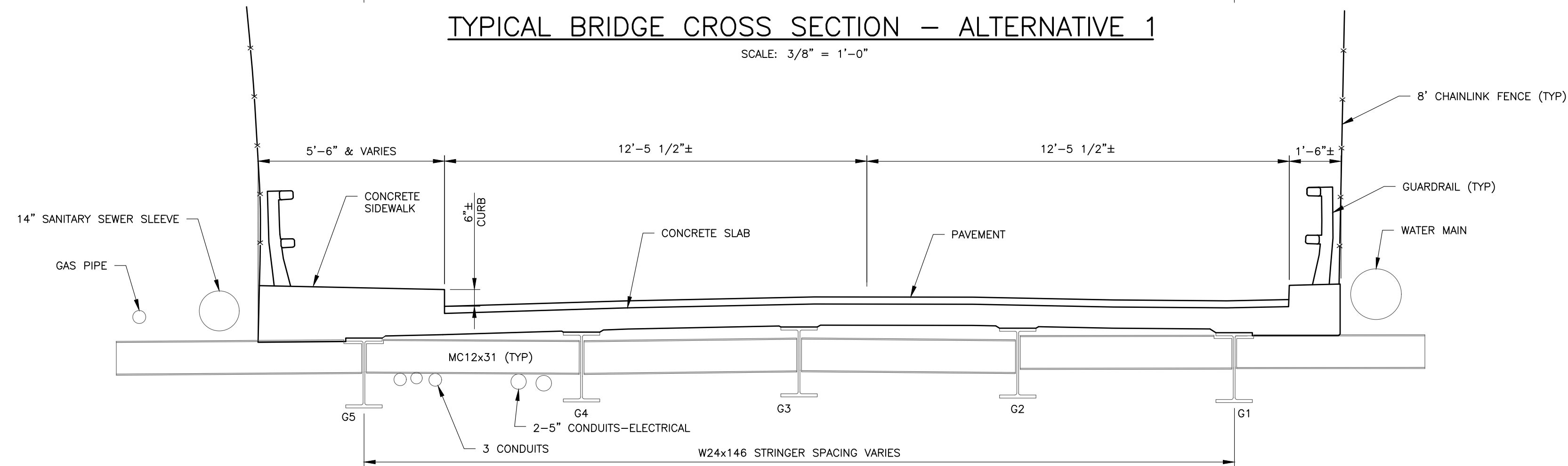
Project Contact Info
1344 Silas Deane Highway
Suite 500
Rocky Hill, CT 06067 Phone: (860) 563-2341

| FRAMING PLAN | | | |
|---|-------------|--------------|------|
| REHABILITATION OF HALF MOON BAY BRIDGE OVER METRO NORTH RAILROAD YARD VILLAGE OF CROTON-ON-HUDSON COUNTY OF WESTCHESTER, STATE OF NEW YORK | | | |
| Date: MM/DD/25 | Work Order: | Drawing No.: | Rev: |
| AS SHOWN | 12530.01 | S5 | |



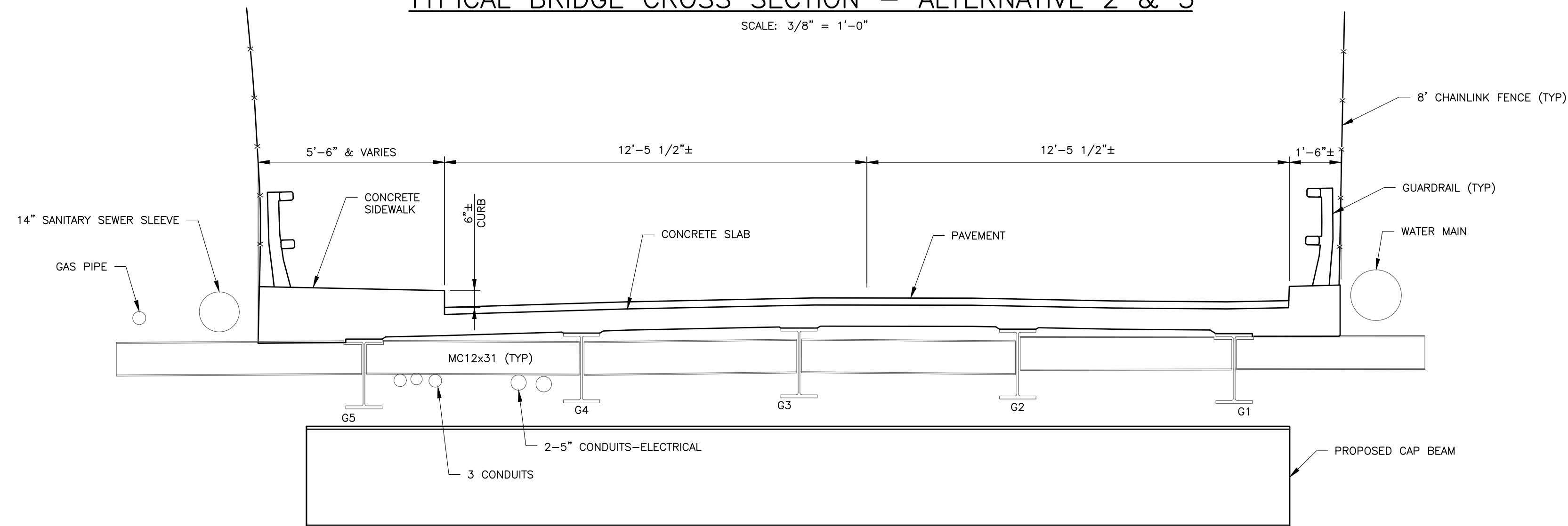
TYPICAL BRIDGE CROSS SECTION - ALTERNATIVE 1

SCALE: 3/8" = 1'-0"



TYPICAL BRIDGE CROSS SECTION - ALTERNATIVE 2 & 3

SCALE: 3/8" = 1'-0"



TYPICAL BRIDGE CROSS SECTION - ALTERNATIVE 4

SCALE: 3/8" = 1'-0"

REHABILITATION OPTIONS:

ALTERNATIVE 1 - DECK REPAIR: THE EXISTING BRIDGE DECK SHALL BE REPAIR THROUGH SEALING AND PATCHING REPAIRS. THE EXISTING ASPHALT PAVEMENT OVER THE BRIDGE DECK SHALL BE REMOVED AND REPLACED. THE STEEL ELEMENTS INCLUDING GIRDERS, PIER CAP BEAMS, METAL SUPPORTS, AND CROSS BRACES SHALL BE PAINTED AFTER REMOVING THE RUST. THE EXISTING BEARINGS SHALL BE REPLACED WITH NEW BEARINGS.

ALTERNATIVE 2 - DECK REPLACEMENT IN KIND: THE EXISTING BRIDGE DECK AND ASPHALT PAVEMENT SHALL BE REMOVED AND REPLACED WITH SIMILAR NEW DECK AND ASPHALT PAVEMENT. THE CONCRETE SIDEWALK AND CURB SHALL ALSO BE REMOVED AND REPLACED AS PART OF THE REHABILITATION WORK. THE STEEL ELEMENTS INCLUDING GIRDERS, PIER CAP BEAMS, METAL SUPPORTS, AND CROSS BRACES SHALL BE PAINTED AFTER REMOVING THE RUST. THE EXISTING BEARINGS SHALL BE REPLACED WITH NEW BEARINGS.

ALTERNATIVE 3 - DECK REPLACEMENT WITH THICKER DECK: THE BRIDGE DECK SHALL BE REMOVED AND REPLACED WITH A THICKER DECK TO INCREASE THE LIFE SPAN OF THE BRIDGE. THE EXISTING ASPHALT PAVEMENT, CONCRETE SIDEWALK AND CURB SHALL BE REMOVED AND REPLACED. THE STEEL ELEMENTS INCLUDING GIRDERS, PIER CAP BEAMS, METAL SUPPORTS, AND CROSS BRACES SHALL BE PAINTED AFTER REMOVING THE RUST. THE EXISTING BEARINGS SHALL BE REPLACED WITH NEW BEARINGS.

ALTERNATIVE 4 - DECK REPLACEMENT AND STEEL PIER CAP BEAM REPLACEMENT: THE BRIDGE DECK, ASPHALT PAVEMENT, SIDEWALK, CURB AND PIER CAP BEAM SHALL BE REMOVED AND REPLACED. THE EXISTING BEARINGS SHALL BE REPLACED WITH NEW BEARINGS. OTHER STEEL ELEMENTS INCLUDING GIRDERS, METAL SUPPORTS, AND CROSS BRACES SHALL BE PAINTED AFTER REMOVING THE RUST.

THIS DOCUMENT IS PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, ALTERATION, REVISION, DUPLICATION, OR USE WITHOUT THE CONSENT OF TECTONIC ENGINEERING IS PROHIBITED. COPYRIGHT 2021 TECTONIC ENGINEERING. ALL RIGHTS RESERVED.

COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL EMBOSSED SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.

ORIGINAL SIZE IN INCHES

| Rev | Date | Revision | Approved |
|-----|------|----------|----------|
| | | | |

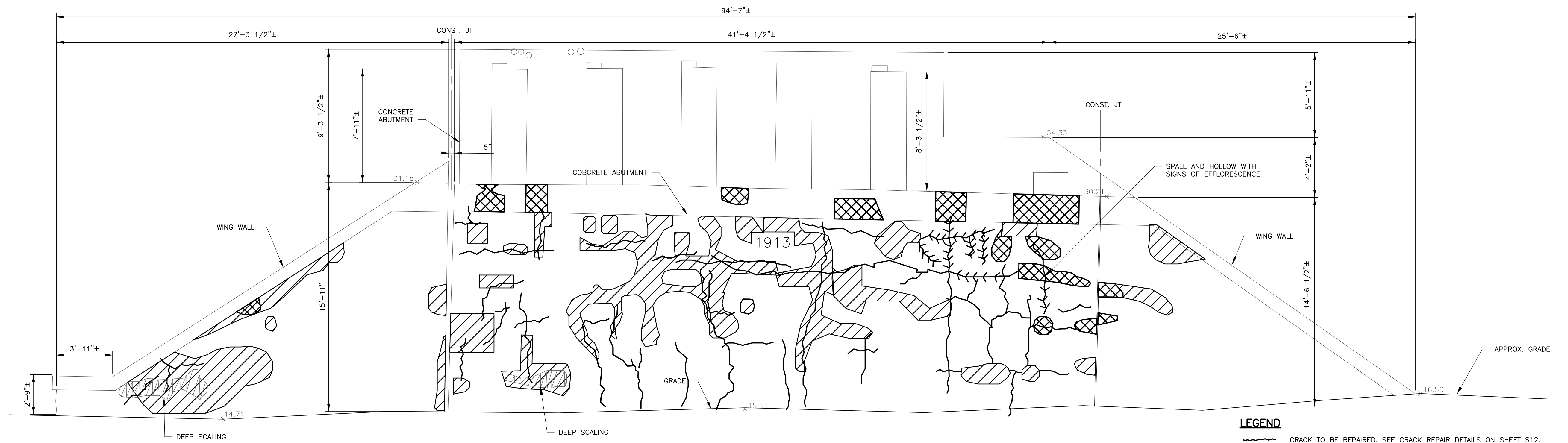
| DRAWING CONTROL | | | |
|--|---------------|-----------------|--|
| Designed by: MHS | Drawn by: KRF | Checked by: JAS | |
| Purpose: | Released by: | Date: | |
| <input type="radio"/> For Comment | | | |
| <input type="radio"/> For Approval | | | |
| <input type="radio"/> For Bid | | | |
| <input type="radio"/> For Construction | | | |

Tectonic
PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.

Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
70 Pleasant Hill Road Phone: (845) 334-5959
P.O. Box 37 (800) 829-6531
Mountainville, NY 10953 www.tectonicengineering.com

Project Contact Info
1344 Silas Deane Highway
Suite 500
Rocky Hill, CT 06067 Phone: (860) 563-2341

| TYPICAL BRIDGE SECTION | | | |
|---|----------|------------|-------------|
| REHABILITATION OF HALF MOON BAY BRIDGE OVER METRO NORTH RAILROAD YARD VILLAGE OF CROTON-ON-HUDSON COUNTY OF WESTCHESTER, STATE OF NEW YORK | | | |
| Date | MM/DD/25 | Work Order | Drawing No. |
| Scale | AS SHOWN | 12530.01 | S6 |



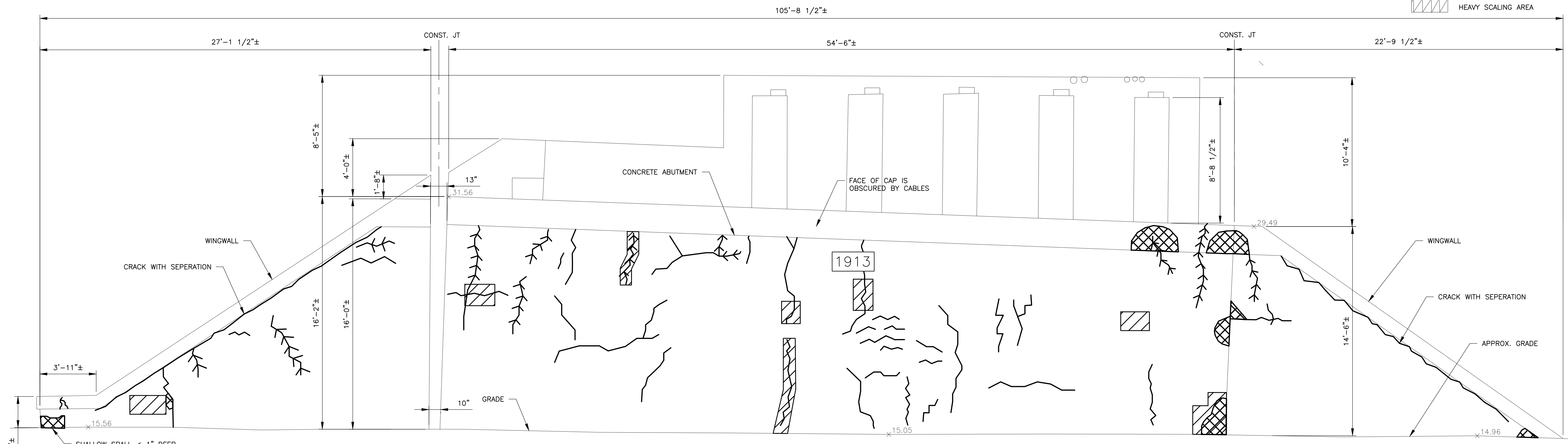
EAST ABUTMENT ELEVATION

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

NOTE:
ALMOST ENTIRE SURFACE HAD HEAVY SCALING, EXPOSED STONES,
MANY HAIRLINE CRACKS, NOT ALL CRACKS NOT SHOWN.

LEGEND

- CRACK TO BE REPAIRED. SEE CRACK REPAIR DETAILS ON SHEET S12.
- HAIRLINE CRACK TO BE REPAIRED. SEE CRACK REPAIR DETAILS ON SHEET S12.
- CRACK WITH EFFLORESCENCE, SEE CRACK REPAIR DETAIL ON SHEET S12.
- LOCATION OF SPALL OR DELAMINATION TO BE REPAIRED. SEE REPAIR DETAIL SHEET S12.
- HOLLOW AREA TO BE REPAIRED. SEE REPAIR DETAILS SHEET12.
- EXISTING PATCHED AREA
- HEAVY SCALING AREA



WEST ABUTMENT ELEVATION

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

NOTE:
ALMOST ENTIRE SURFACE HAD HEAVY SCALING, EXPOSED STONES,
MANY HAIRLINE CRACKS, MINOR CRACKS NOT SHOWN.

| Rev | Date | Revision | Approved | DRAWING CONTROL | | |
|-----|------|----------|----------|--|---------------|-----------------|
| | | | | Designed by: MHS | Drawn by: KRF | Checked by: JAS |
| | | | | Purpose: | Released by: | Date: |
| | | | | <input type="radio"/> For Comment | | |
| | | | | <input type="radio"/> For Approval | | |
| | | | | <input type="radio"/> For Bid | | |
| | | | | <input type="radio"/> For Construction | | |

Tectonic
PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.

Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
70 Pleasant Hill Road Phone: (845) 334-5959
P.O. Box 37 (800) 829-6531
Mountainville, NY 10953 www.tectonicengineering.com

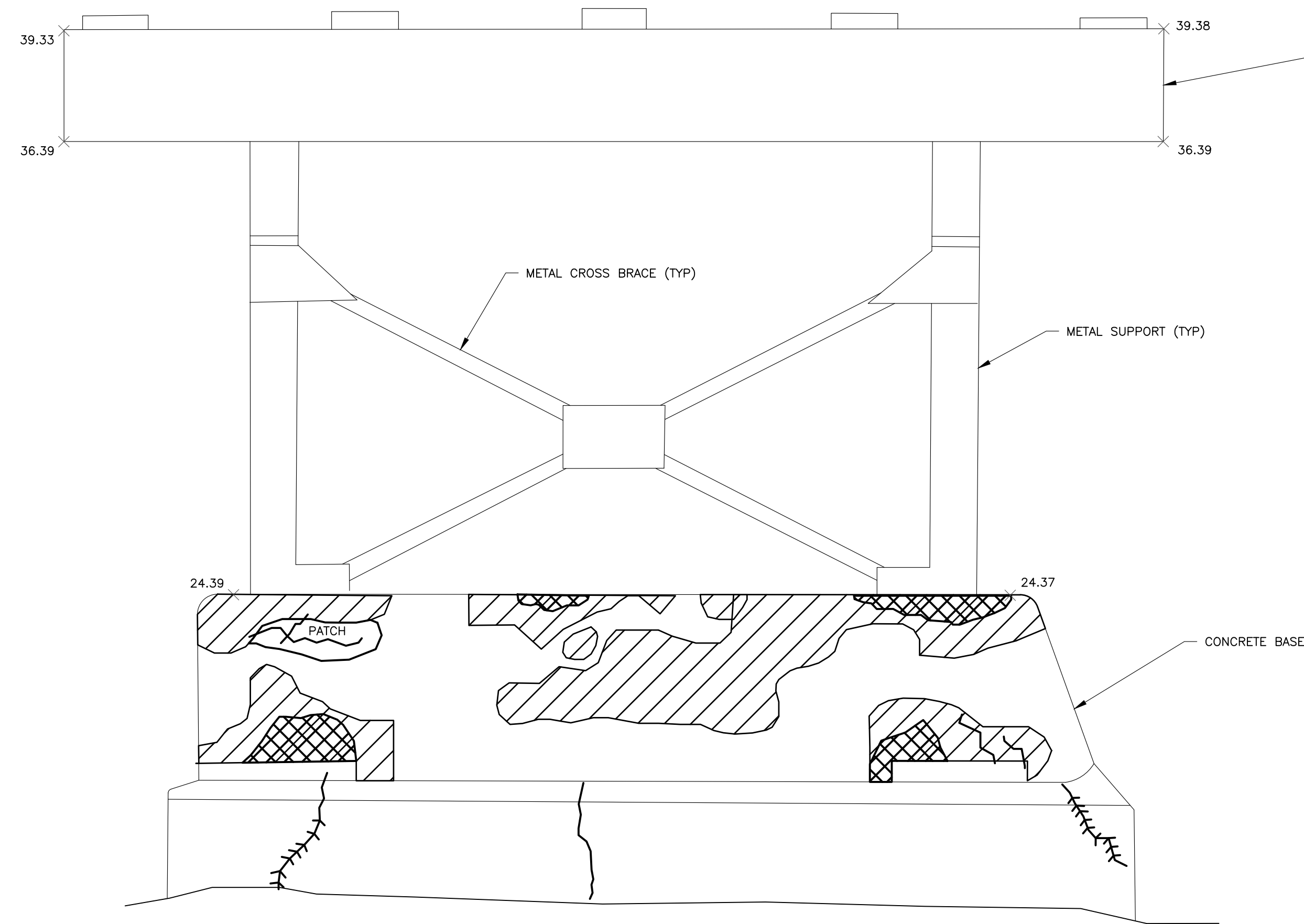
Project Contact Info
1344 Silas Deane Highway
Suite 500
Rocky Hill, CT 06067 Phone: (860) 563-2341

| CONCRETE DETERIORATION - ABUTMENTS | | | |
|---|----------|------------|-------------|
| REHABILITATION OF HALF MOON BAY BRIDGE OVER METRO NORTH RAILROAD YARD VILLAGE OF CROTON-ON-HUDSON COUNTY OF WESTCHESTER, STATE OF NEW YORK | | | |
| Date | MM/DD/25 | Work Order | Drawing No. |
| Scale | AS SHOWN | 12530.01 | S7 |

COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL EMBOSSED SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.

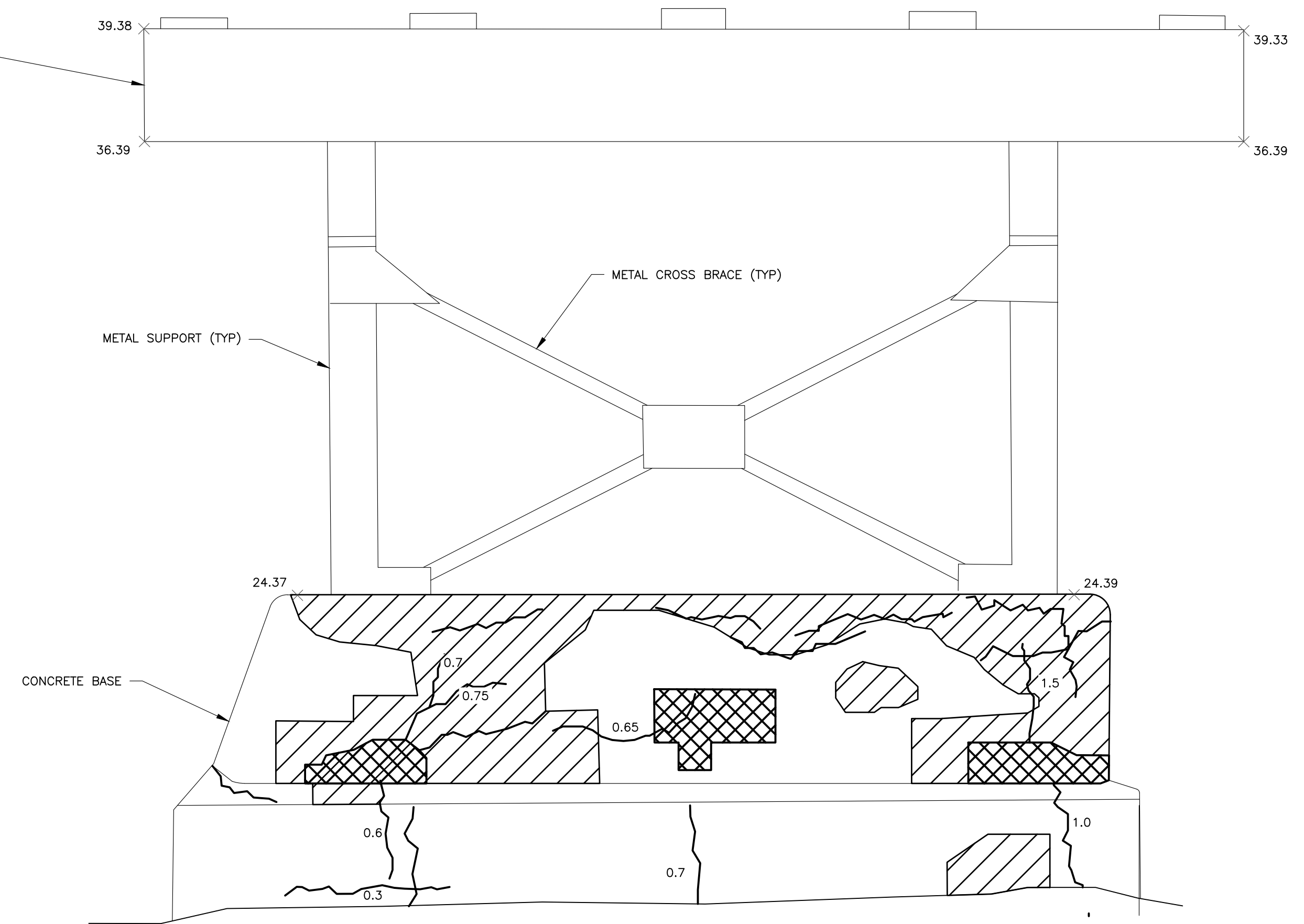
0 1 2 3
ORIGINAL SIZE IN INCHES

THIS DOCUMENT IS PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, ALTERATION, REVISION, DUPLICATION, OR USE WITHOUT THE CONSENT OF TECTONIC ENGINEERING IS PROHIBITED. COPYRIGHT 2021 TECTONIC ENGINEERING. ALL RIGHTS RESERVED.



PIER 1 EAST FACE

SCALE: 3/8" = 1'-0"



PIER 1 WEST FACE

SCALE: 3/8" = 1'-0"

LEGEND

- CRACK TO BE REPAIRED. SEE CRACK REPAIR DETAILS ON SHEET S12.
- HAIRLINE CRACK TO BE REPAIRED. SEE CRACK REPAIR DETAILS ON SHEET S12.
- CRACK WITH EFFLORESCENCE. SEE CRACK REPAIR DETAIL ON SHEET S12.
- LOCATION OF SPALL OR DELAMINATION TO BE REPAIRED. SEE REPAIR DETAIL SHEET S12.
- HOLLOW AREA TO BE REPAIRED. SEE REPAIR DETAILS SHEET 12.
- EXISTING PATCHED AREA
- HEAVY SCALING AREA

THIS DOCUMENT IS PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, ALTERATION, REVISION, DUPLICATION, OR USE WITHOUT THE CONSENT OF TECTONIC ENGINEERING IS PROHIBITED. COPYRIGHT 2021 TECTONIC ENGINEERING. ALL RIGHTS RESERVED.

COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL EMBOSSED SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.

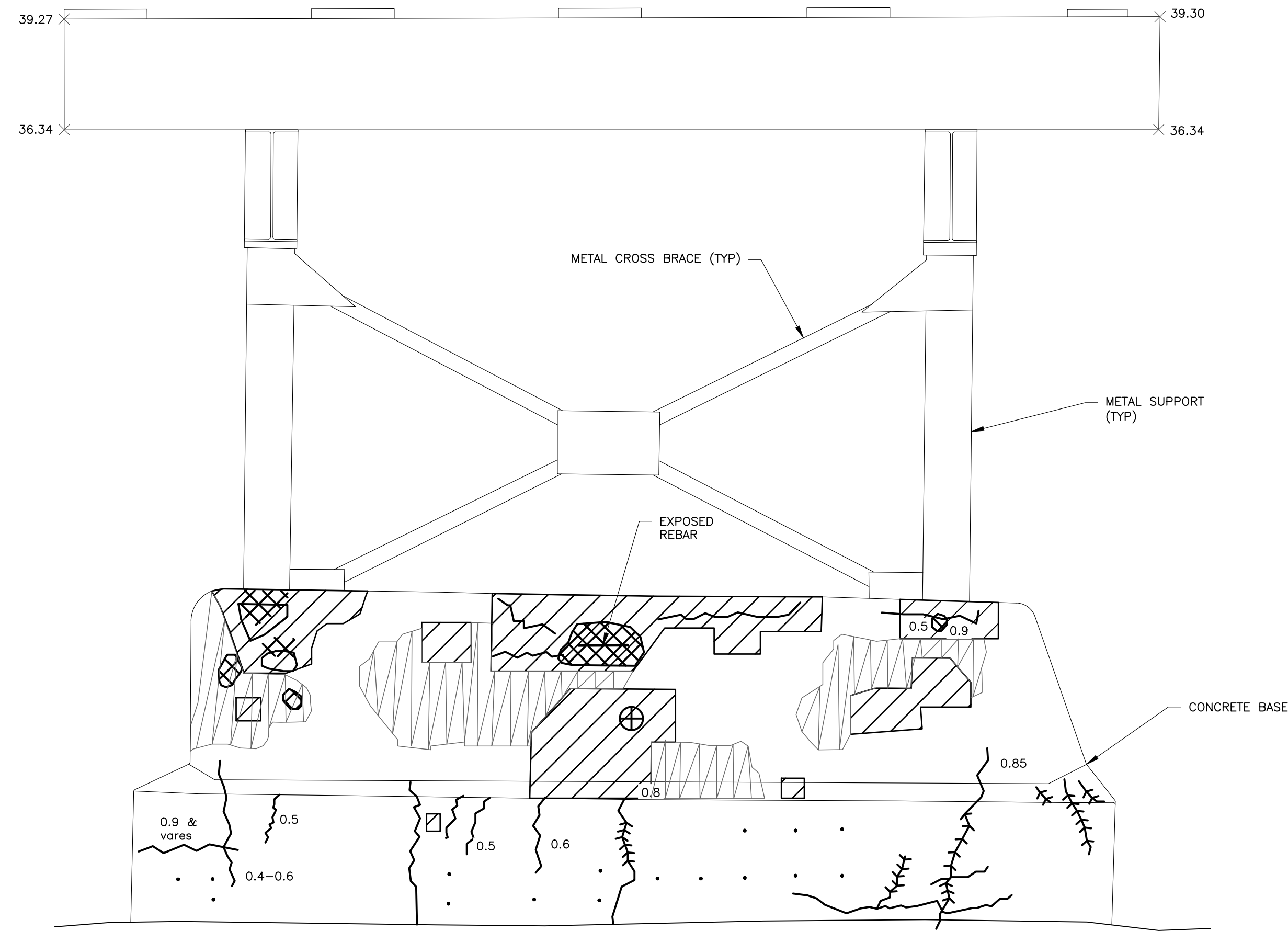


| Rev | Date | Revision | Approved |
|-----|------|----------|----------|
| | | | |

| DRAWING CONTROL | | | |
|--|-----|--------------|-----|
| Designed by: | MHS | Drawn by: | KRF |
| Checked by: | JAS | Released by: | |
| Purpose: | | Date: | |
| <input type="radio"/> For Comment | | | |
| <input type="radio"/> For Approval | | | |
| <input type="radio"/> For Bid | | | |
| <input type="radio"/> For Construction | | | |

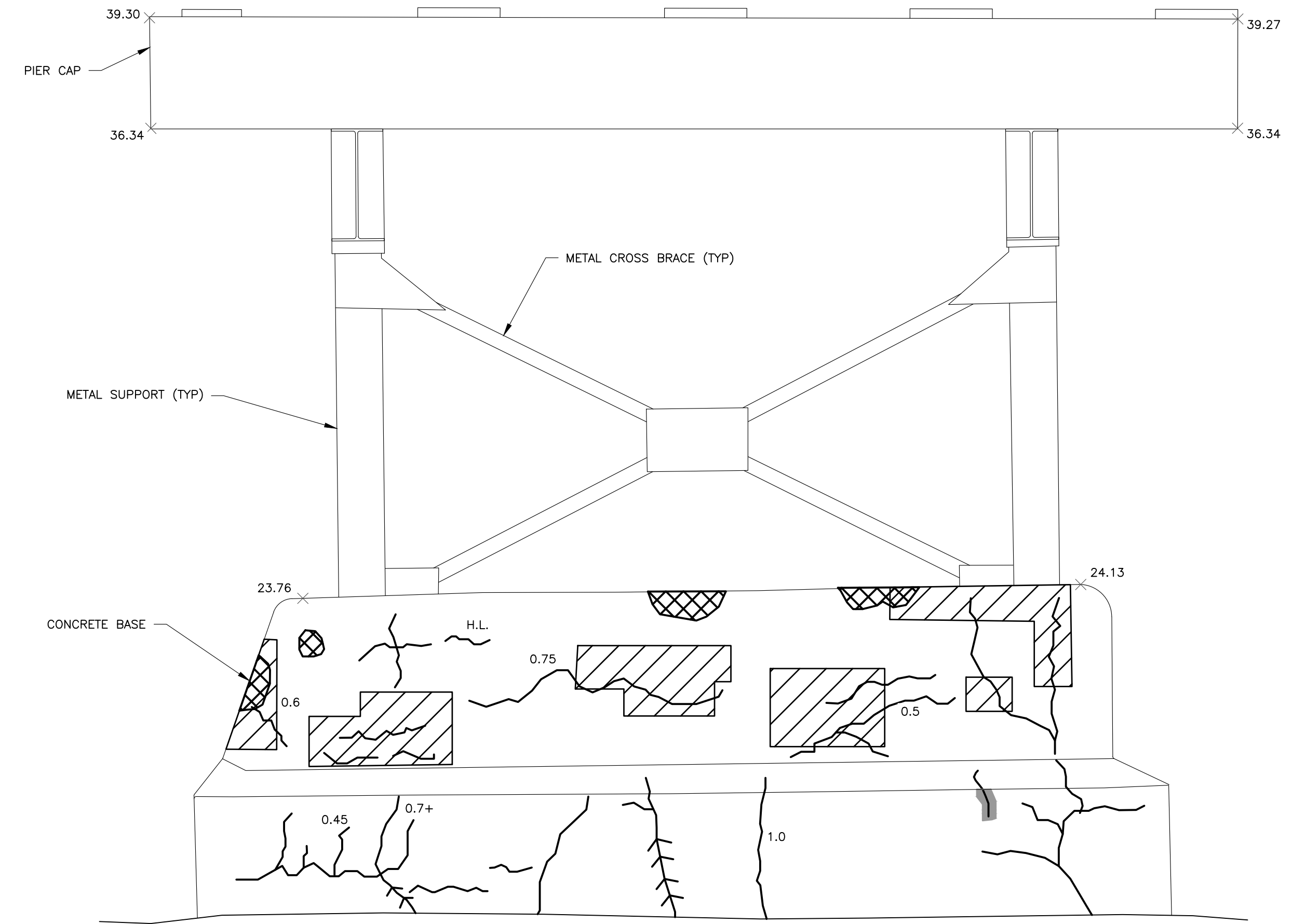
Tectonic
 PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.
 Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
 70 Pleasant Hill Road Phone: (845) 334-5959
 P.O. Box 37 (800) 829-6531
 Mountaintown, NY 10953 www.tectonicengineering.com
 Project Contact Info
 1344 Silas Deane Highway
 Suite 500
 Rocky Hill, CT 06067 Phone: (860) 563-2341

| CONCRETE DETERIORATION - PIER 1 | | | |
|---|----------|------------|-------------|
| REHABILITATION OF HALF MOON BAY BRIDGE OVER METRO NORTH RAILROAD YARD VILLAGE OF CROTON-ON-HUDSON COUNTY OF WESTCHESTER, STATE OF NEW YORK | | | |
| Date | MM/DD/25 | Work Order | Drawing No. |
| Scale | AS SHOWN | 12530.01 | S8 |



PIER 2 EAST FACE

SCALE: 3/8" = 1'-0"



PIER 2 WEST FACE

SCALE: 3/8" = 1'-0"

LEGEND

- CRACK TO BE REPAIRED. SEE CRACK REPAIR DETAILS ON SHEET S12.
- HAIRLINE CRACK TO BE REPAIRED. SEE CRACK REPAIR DETAILS ON SHEET S12.
- CRACK WITH EFFLORESCENCE, SEE CRACK REPAIR DETAIL ON SHEET S12.
- LOCATION OF SPALL OR DELAMINATION TO BE REPAIRED. SEE REPAIR DETAIL SHEET S12.
- HOLLOW AREA TO BE REPAIRED. SEE REPAIR DETAILS SHEET 12.
- EXISTING PATCHED AREA
- HEAVY SCALING AREA

THIS DOCUMENT IS PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, ALTERATION, REVISION, DUPLICATION, OR USE WITHOUT THE CONSENT OF TECTONIC ENGINEERING IS PROHIBITED. COPYRIGHT 2021 TECTONIC ENGINEERING. ALL RIGHTS RESERVED.

COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL EMBOSSED SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.

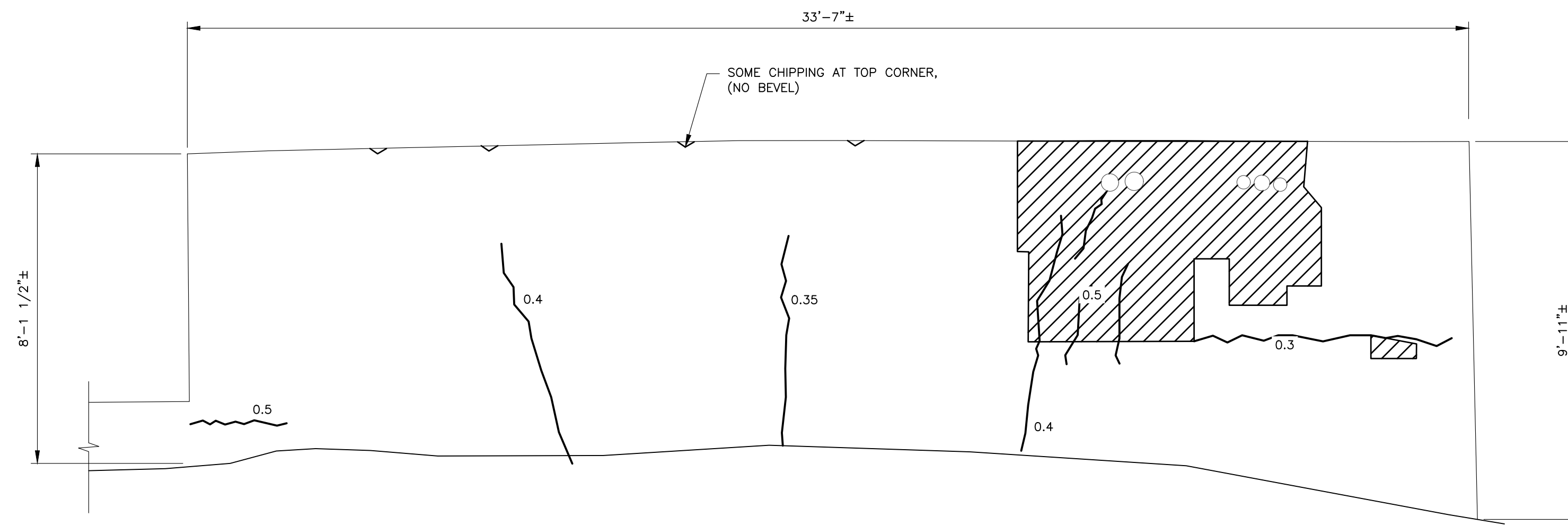


| Rev | Date | Revision | Approved |
|-----|------|----------|----------|
| | | | |

| DRAWING CONTROL | | | |
|--|-----|--------------|-----|
| Designed by: | MHS | Drawn by: | KRF |
| Checked by: | JAS | Released by: | |
| Purpose: | | Date: | |
| <input type="radio"/> For Comment | | | |
| <input type="radio"/> For Approval | | | |
| <input type="radio"/> For Bid | | | |
| <input type="radio"/> For Construction | | | |

Tectonic
 PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.
 Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
 70 Pleasant Hill Road Phone: (845) 334-5959
 P.O. Box 37 (800) 829-6531
 Mountainville, NY 10953 www.tectonicengineering.com
 Project Contact Info
 1344 Silas Deane Highway
 Suite 500
 Rocky Hill, CT 06067 Phone: (860) 563-2341

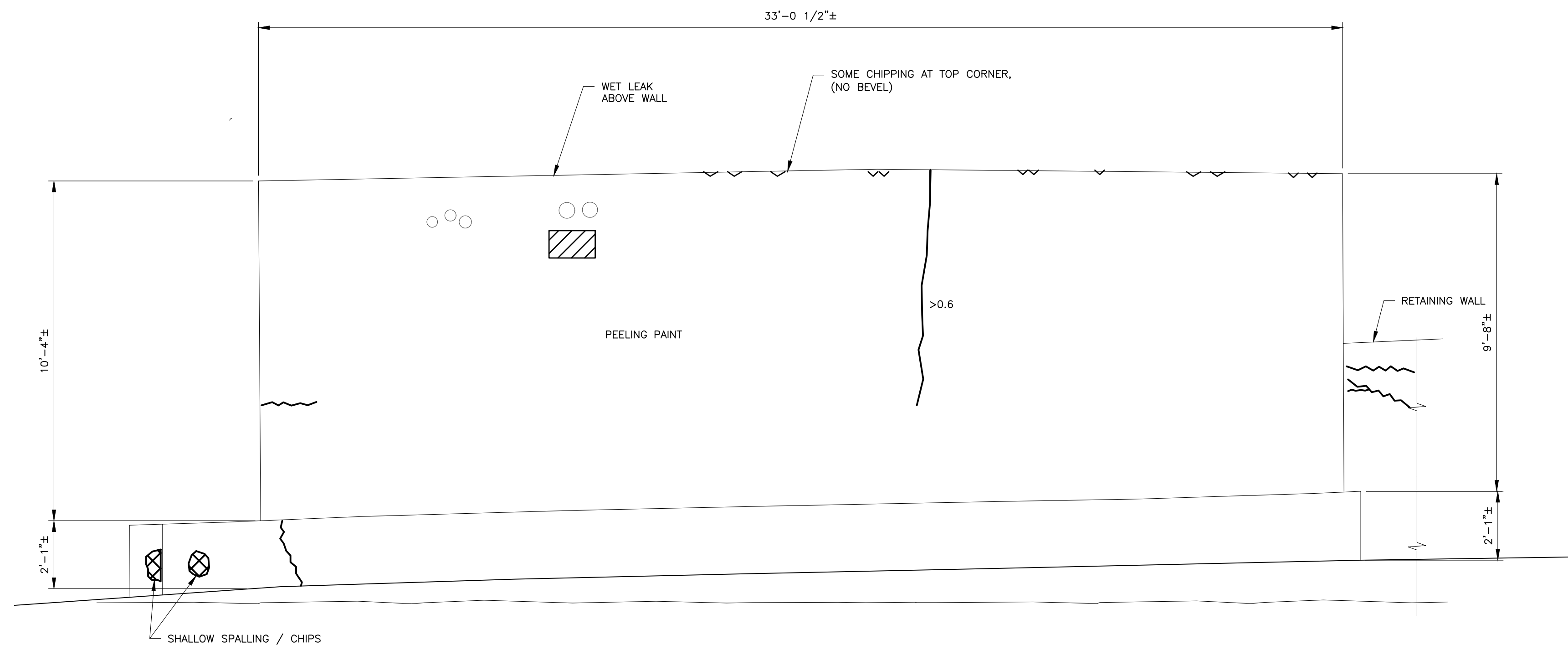
| CONCRETE DETERIORATION - PIER 2 | | | | |
|---|----------|------------|-------------|-----|
| REHABILITATION OF HALF MOON BAY BRIDGE OVER METRO NORTH RAILROAD YARD VILLAGE OF CROTON-ON-HUDSON COUNTY OF WESTCHESTER, STATE OF NEW YORK | | | | |
| Date | MM/DD/25 | Work Order | Drawing No. | Rev |
| Scale | AS SHOWN | 12530.01 | S9 | |



WALL ABOVE EAST ABUTMENT – EAST FACE

SCALE: 3/8" = 1'-0"

NOTE:
WALL IS PAINTED SO NO EFFLORESCENCE WAS VISIBLE.



WALL ABOVE WEST ABUTMENT – WEST FACE

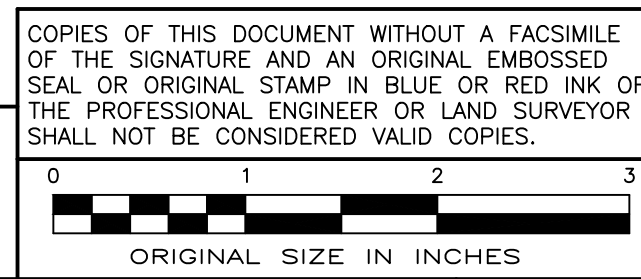
SCALE: 3/8" = 1'-0"

NOTE:
WALL IS PAINTED SO NO EFFLORESCENCE WAS VISIBLE.
RETAINING WALL TO THE NORTH WAS NOT SUPPORTING BRIDGE SO IT WAS NOT SOUNDED.

LEGEND

- CRACK TO BE REPAIRED. SEE CRACK REPAIR DETAILS ON SHEET S12.
- HAIRLINE CRACK TO BE REPAIRED. SEE CRACK REPAIR DETAILS ON SHEET S12.
- CRACK WITH EFFLORESCENCE, SEE CRACK REPAIR DETAIL ON SHEET S12.
- LOCATION OF SPALL OR DELAMINATION TO BE REPAIRED. SEE REPAIR DETAIL SHEET S12.
- HOLLOW AREA TO BE REPAIRED. SEE REPAIR DETAILS SHEET12.
- EXISTING PATCHED AREA
- HEAVY SCALING AREA

THIS DOCUMENT IS PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, ALTERATION, REVISION, DUPLICATION, OR USE WITHOUT THE CONSENT OF TECTONIC ENGINEERING IS PROHIBITED. COPYRIGHT 2021 TECTONIC ENGINEERING. ALL RIGHTS RESERVED.



| Rev | Date | Revision | Approved |
|-----|------|----------|----------|
| | | | |

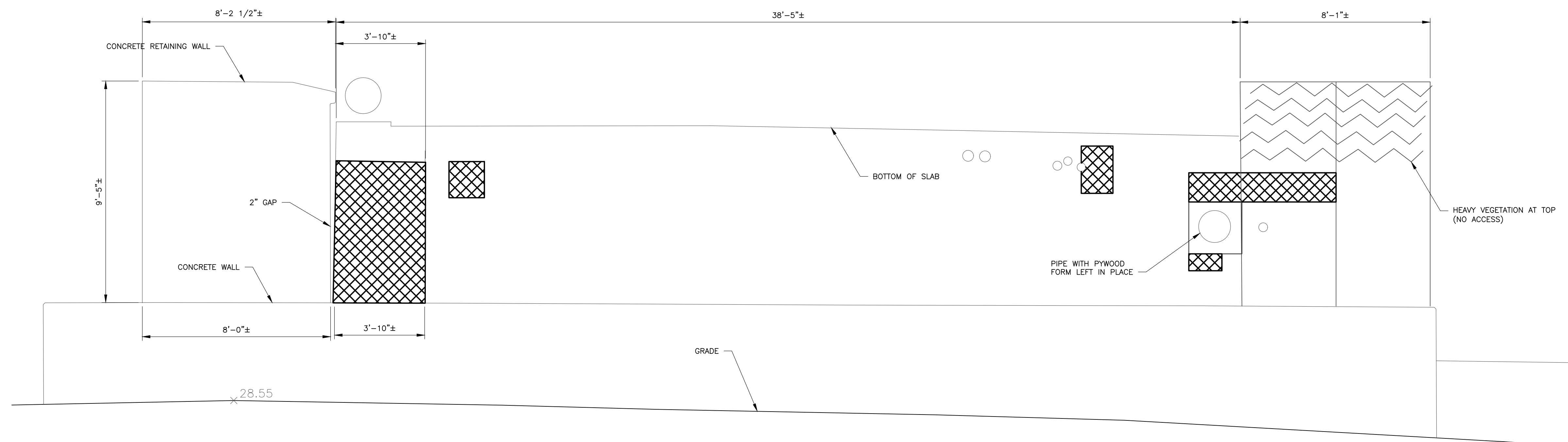
| DRAWING CONTROL | | | |
|--|---------------|-----------------|--|
| Designed by: MHS | Drawn by: KRF | Checked by: JAS | |
| Purpose: | Released by: | Date: | |
| <input type="radio"/> For Comment | | | |
| <input type="radio"/> For Approval | | | |
| <input type="radio"/> For Bid | | | |
| <input type="radio"/> For Construction | | | |

Tectonic
PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.

Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
70 Pleasant Hill Road Phone: (845) 334-5959
P.O. Box 37 (800) 829-6531
Mountainville, NY 10953 www.tectonicengineering.com

Project Contact Info
1344 Silas Deane Highway
Suite 500
Rocky Hill, CT 06067 Phone: (860) 563-2341

| CONCRETE DETERIORATION – WALLS ABOVE ABUTMENTS | | | |
|---|----------|------------|-------------|
| REHABILITATION OF HALF MOON BAY BRIDGE OVER METRO NORTH RAILROAD YARD VILLAGE OF CROTON-ON-HUDSON COUNTY OF WESTCHESTER, STATE OF NEW YORK | | | |
| Date | MM/DD/25 | Work Order | Drawing No. |
| Scale | AS SHOWN | 12530.01 | S10 |

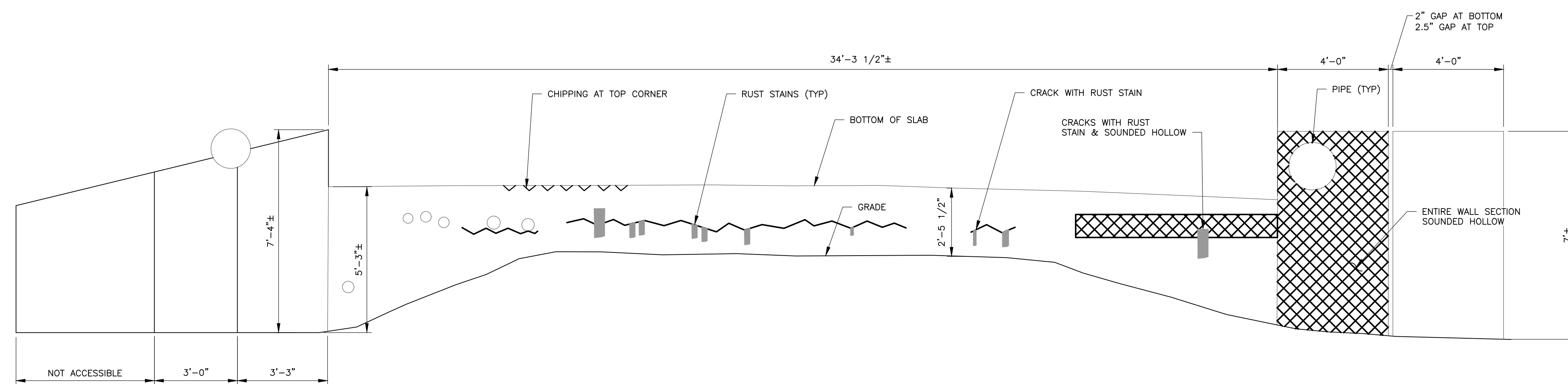


WEST APPROACH ABUTMENT ELEVATION

SCALE: 3/8" = 1'-0"

LEGEND

- CRACK TO BE REPAIRED. SEE CRACK REPAIR DETAILS ON SHEET S12.
- HAIRLINE CRACK TO BE REPAIRED. SEE CRACK REPAIR DETAILS ON SHEET S12.
- CRACK WITH EFFLORESCENCE, SEE CRACK REPAIR DETAIL ON SHEET S12.
- LOCATION OF SPALL OR DELAMINATION TO BE REPAIRED. SEE REPAIR DETAIL SHEET S12.
- HOLLOW AREA TO BE REPAIRED. SEE REPAIR DETAILS SHEET S12.
- EXISTING PATCHED AREA
- HEAVY SCALING AREA



EAST APPROACH ABUTMENT ELEVATION

SCALE: 3/8" = 1'-0"

THIS DOCUMENT IS PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, ALTERATION, REVISION, DUPLICATION, OR USE WITHOUT THE CONSENT OF TECTONIC ENGINEERING IS PROHIBITED. COPYRIGHT 2021 TECTONIC ENGINEERING. ALL RIGHTS RESERVED.

COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL EMBOSSED SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.

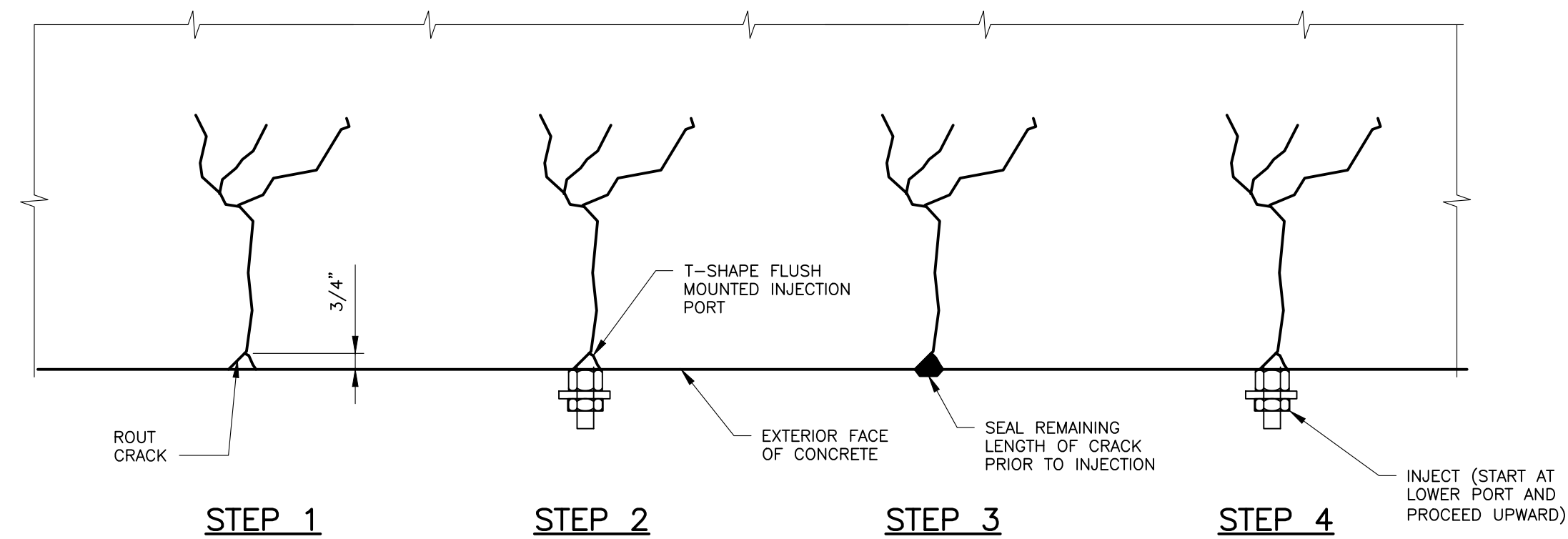
ORIGINAL SIZE IN INCHES

| Rev | Date | Revision | Approved |
|-----|------|----------|----------|
| | | | |

| DRAWING CONTROL | | | |
|--|---|-------------------------------------|--|
| Designed by: MHS | Drawn by: KRF | Checked by: JAS | |
| Purpose: <input type="radio"/> For Comment | Released by: <input type="radio"/> For Approval | Date: <input type="radio"/> For Bid | <input type="radio"/> For Construction |

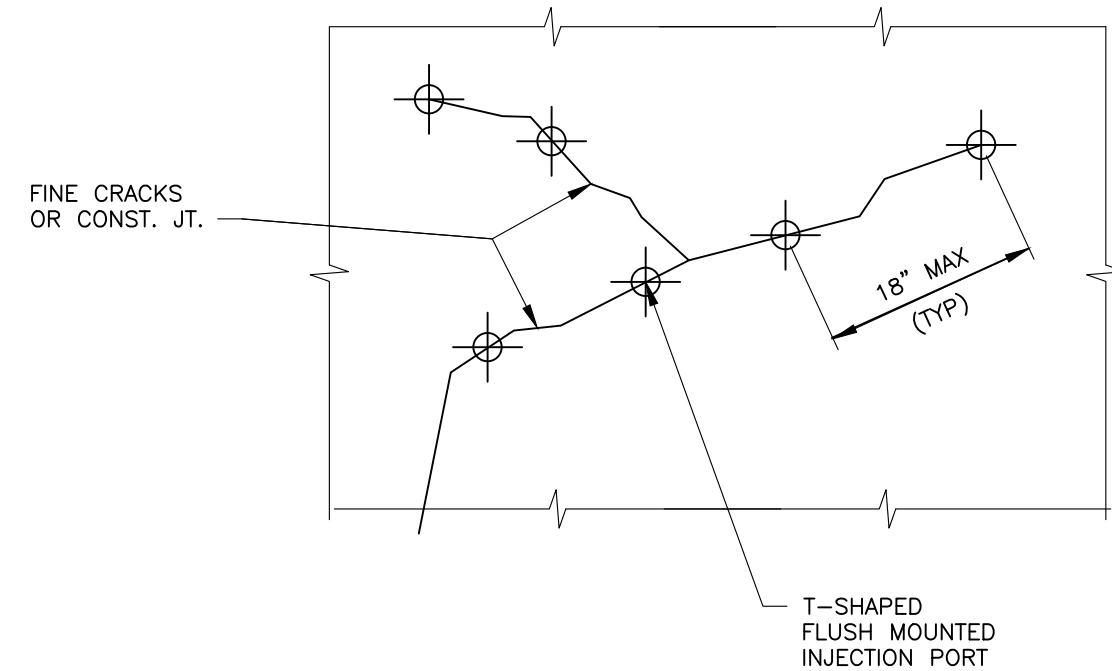
Tectonic
 PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.
 Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
 70 Pleasant Hill Road Phone: (845) 334-5959
 P.O. Box 37 (800) 829-6531
 Mountainville, NY 10953 www.tectonicengineering.com
 Project Contact Info
 1344 Silas Deane Highway
 Suite 500
 Rocky Hill, CT 06067 Phone: (860) 563-2341

| CONCRETE DETERIORATION - APPROACH WALLS | | | |
|---|----------------------|------------------|------|
| REHABILITATION OF HALF MOON BAY BRIDGE OVER METRO NORTH RAILROAD YARD VILLAGE OF CROTON-ON-HUDSON COUNTY OF WESTCHESTER, STATE OF NEW YORK | | | |
| Date: MM/DD/25 | Work Order: 12530.01 | Drawing No.: S11 | Rev: |
| Scale: AS SHOWN | | | |



TYPE 1 CRACK REPAIR

N.T.S.

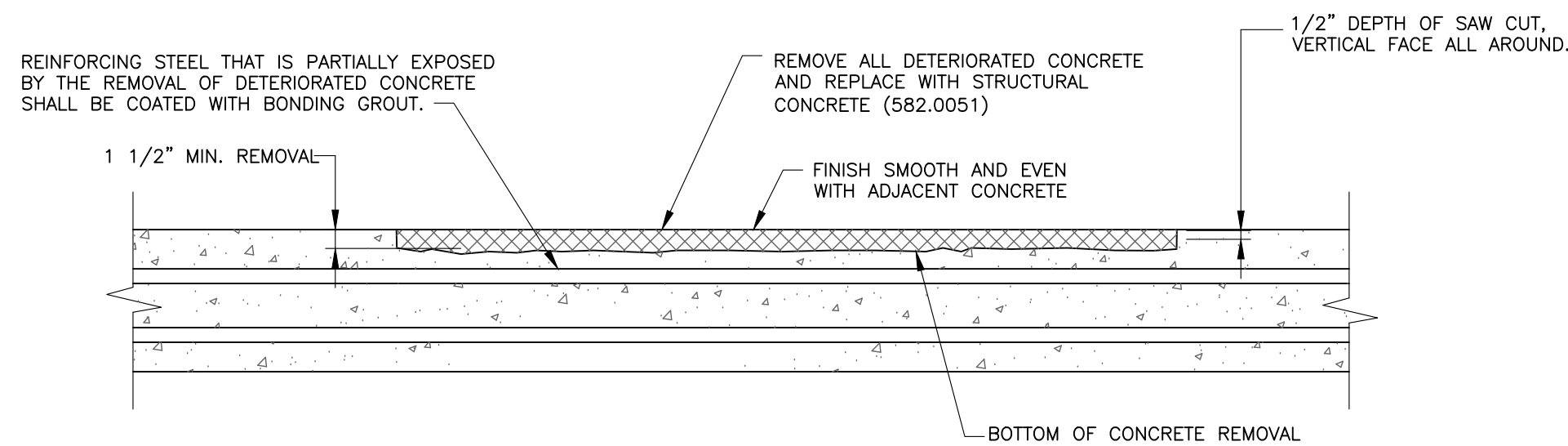


ELEVATION – TYPE 1 CRACK REPAIR

N.T.S.

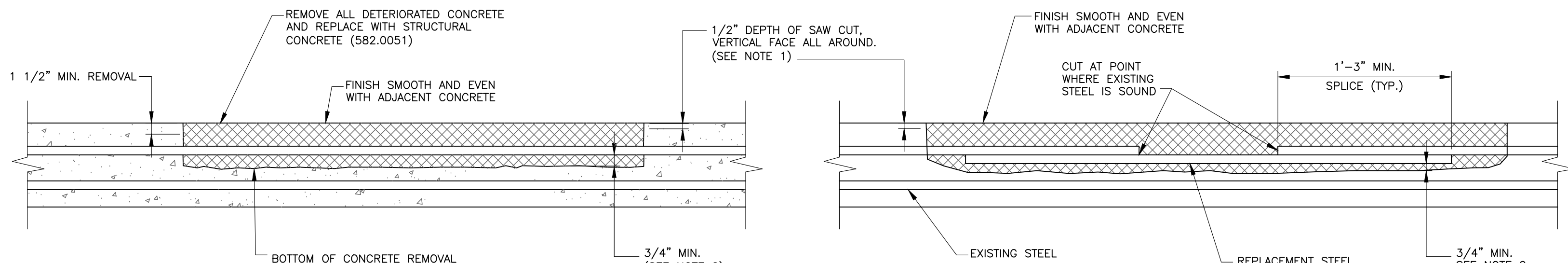
**NOTES FOR CRACK REPAIR
(ITEM 555.800200001)**

1. INJECTION TO BE USED FOR REPAIR OF CRACKS 1/64" AND LARGER.
2. THE SPACING BETWEEN INJECTION PORTS SHALL NOT BE MORE THAN 18".
3. CRACKS SHALL BE CLEANED BY VACUUMING AND SEALED WITH EPOXY MORTAR CURED PRIOR TO INJECTION OF GROUT AS SPECIFIED.
4. GROUTING DETAILS ARE SUGGESTED METHODS. THE CONTRACTOR MAY SUBMIT DIFFERENT DETAILS FOR APPROVAL TO THE ENGINEER.
5. REPLACEMENT CONCRETE AND EPOXY RESIN FOR CRACKS SHALL HAVE THE SAME COLOR AS THE EXISTING BASE CONCRETE TO WHICH IT IS APPLIED.
6. CRACK REPAIRS SHALL NOT BE PERFORMED AT TEMPERATURES LESS THAN 50° F.
7. EACH INJECTION PORT SHALL BE EQUIPPED WITH A RESERVOIR TO COLLECT ANY LEAKAGE.



**CONCRETE REPAIRS – CONCRETE REPLACEMENT
OUTSIDE REINFORCING STEEL**

SCALE: N.T.S.



**CONCRETE REPAIRS – CONCRETE REPLACEMENT
INSIDE REINFORCING STEEL**

SCALE: N.T.S.

**REPAIR OF EXISTING
REINFORCING STEEL**

SCALE: N.T.S.

CONCRETE REPAIR NOTES:

1. COST OF 1/2" DEPTH SAW CUT ALONG LIMITS OF CONCRETE REMOVAL TO BE INCLUDED IN THE CONTRACT BID PRICE FOR "REMOVAL AND REPLACEMENT OF STRUCTURAL CONCRETE (ITEM 582.0051)".
2. IF AFTER CONCRETE REMOVAL THE REINFORCING STEEL HAS AT LEAST ONE HALF OF ITS SURFACE AREA EXPOSED THE CONCRETE SHALL BE FURTHER REMOVED TO A DEPTH OF 3/4" BELOW THE STEEL.
3. AS DIRECTED BY THE ENGINEER, ALL VOIDS AND HONEYCOMBS ON THE CULVERT SURFACE SHALL BE FILLED WITH THE SAME MATERIAL FOR ITEM 582.0051 "REMOVAL AND REPLACEMENT OF STRUCTURAL CONCRETE".

THIS DOCUMENT IS PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, ALTERATION, REVISION, DUPLICATION, OR USE WITHOUT THE CONSENT OF TECTONIC ENGINEERING IS PROHIBITED. COPYRIGHT 2021 TECTONIC ENGINEERING. ALL RIGHTS RESERVED.

COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL EMBOSSED SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.

ORIGINAL SIZE IN INCHES

| Rev | Date | Revision | Approved |
|-----|------|----------|----------|
| | | | |

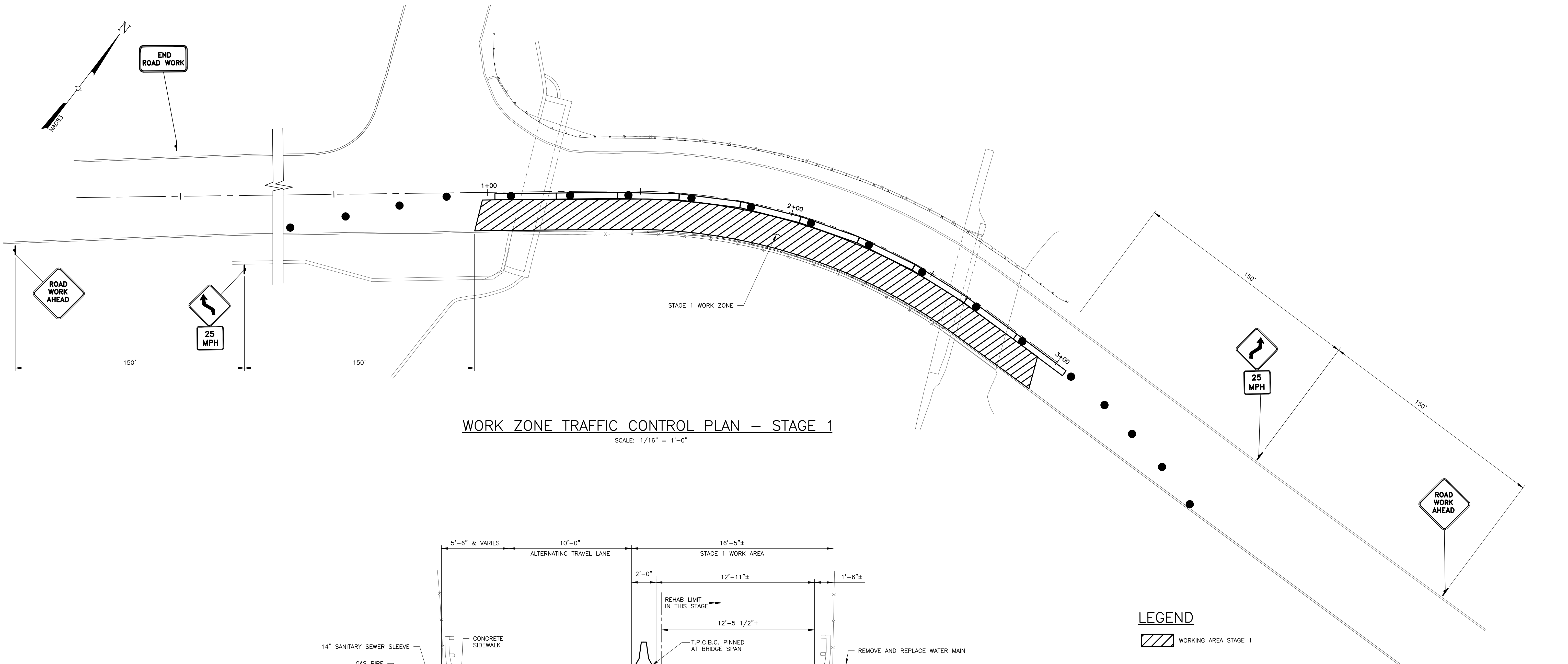
| DRAWING CONTROL | | | |
|--|---------------|-----------------|--|
| Designed by: MHS | Drawn by: KRF | Checked by: JAS | |
| Purpose: | Released by: | Date: | |
| <input type="radio"/> For Comment | | | |
| <input type="radio"/> For Approval | | | |
| <input type="radio"/> For Bid | | | |
| <input type="radio"/> For Construction | | | |

Tectonic
PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.

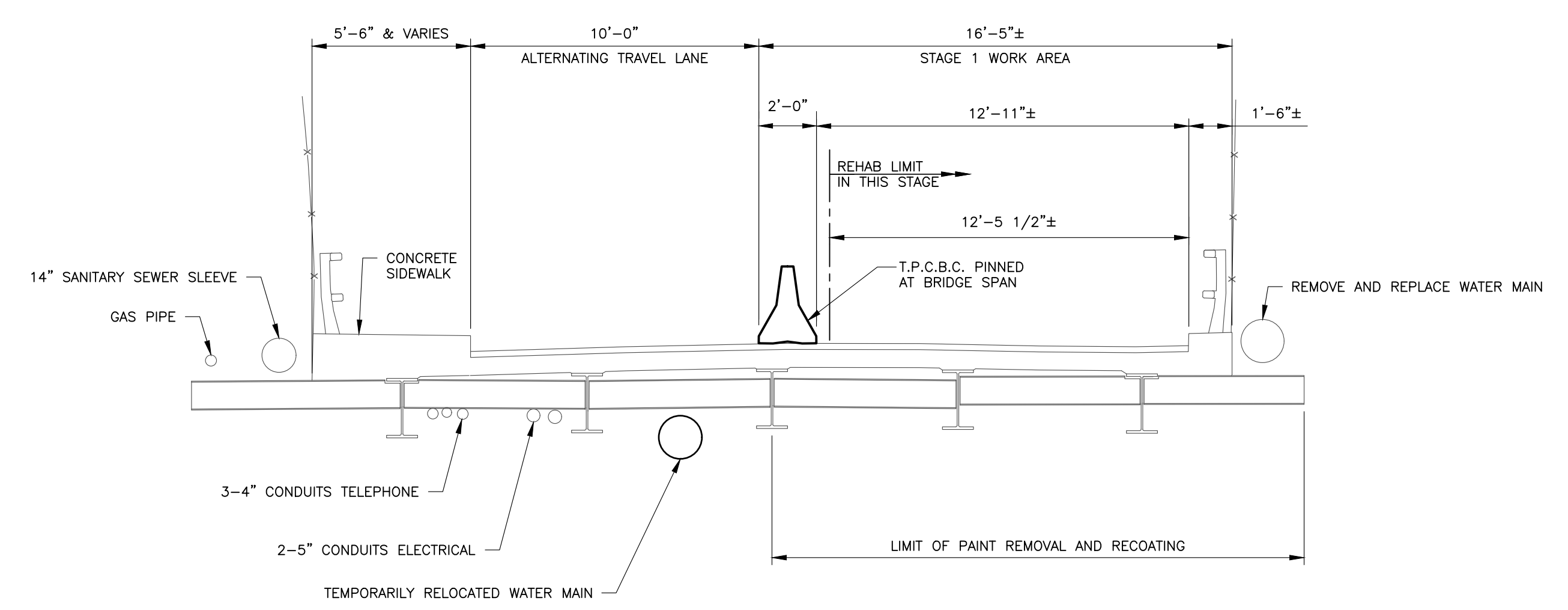
Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
70 Pleasant Hill Road Phone: (845) 334-5959
P.O. Box 37 (800) 829-6531
Mountainville, NY 10953 www.tectonicengineering.com

Project Contact Info
1344 Silas Deane Highway
Suite 500
Rocky Hill, CT 06067 Phone: (860) 563-2341

| CONCRETE DETERIORATION – REPAIR DETAILS | | | |
|---|----------|------------|-------------|
| REHABILITATION OF HALF MOON BAY BRIDGE OVER METRO NORTH RAILROAD YARD VILLAGE OF CROTON-ON-HUDSON COUNTY OF WESTCHESTER, STATE OF NEW YORK | | | |
| Date | MM/DD/25 | Work Order | Drawing No. |
| Scale | N.T.S. | 12530.01 | S12 |



WORK ZONE TRAFFIC CONTROL PLAN – STAGE 1
SCALE: 1/16" = 1'-0"



WORK ZONE TRAFFIC CONTROL SECTION – STAGE 1
SCALE: 1/4" = 1'-0"

LEGEND

WORKING AREA STAGE 1

COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL EMBOSSED SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.

THIS DOCUMENT IS PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, ALTERATION, REVISION, DUPLICATION, OR USE WITHOUT THE CONSENT OF TECTONIC ENGINEERING IS PROHIBITED. COPYRIGHT 2021 TECTONIC ENGINEERING. ALL RIGHTS RESERVED.

0 1 2 3
ORIGINAL SIZE IN INCHES

| Rev | Date | Revision | Approved |
|-----|------|----------|----------|
| | | | |

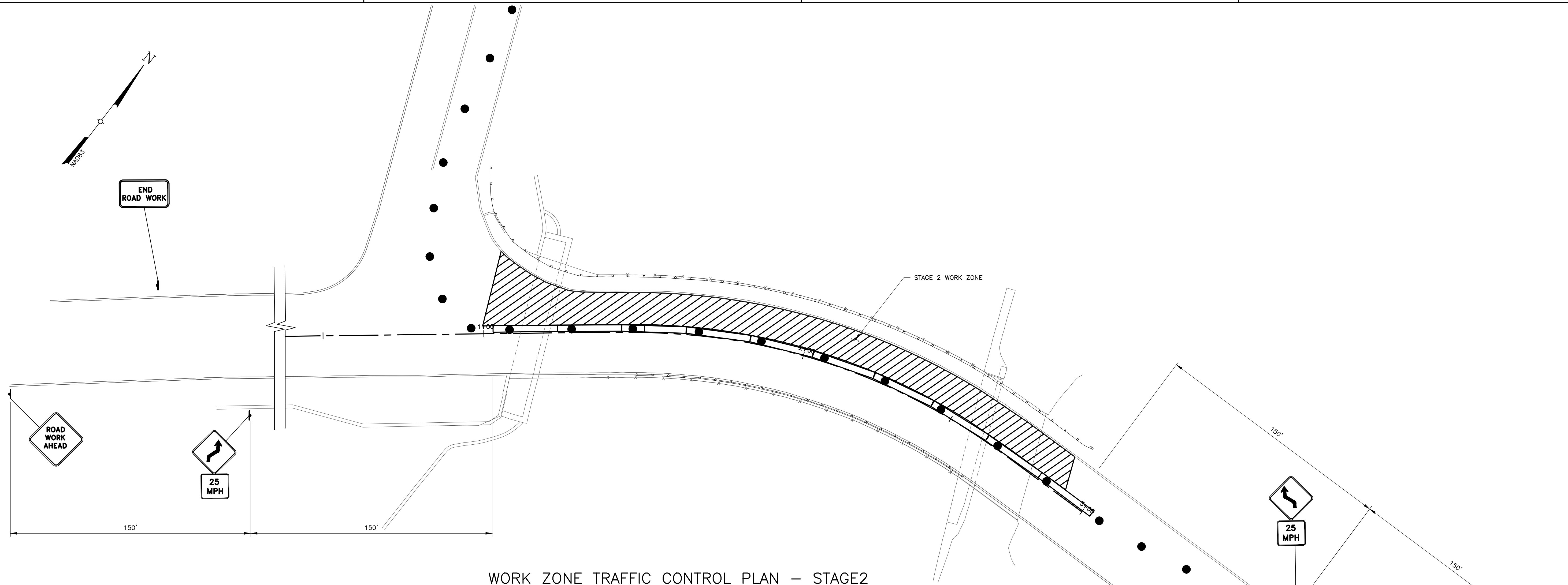
| DRAWING CONTROL | | | |
|--|-----|--------------|-----|
| Designed by: | MHS | Drawn by: | KRF |
| Checked by: | JAS | Released by: | |
| Purpose: | | Date: | |
| <input type="radio"/> For Comment | | | |
| <input type="radio"/> For Approval | | | |
| <input type="radio"/> For Bid | | | |
| <input type="radio"/> For Construction | | | |

Tectonic
PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.

Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
70 Pleasant Hill Road Phone: (845) 534-5959
P.O. Box 37 (800) 829-6531
Mountainville, NY 10953 www.tectonicengineering.com

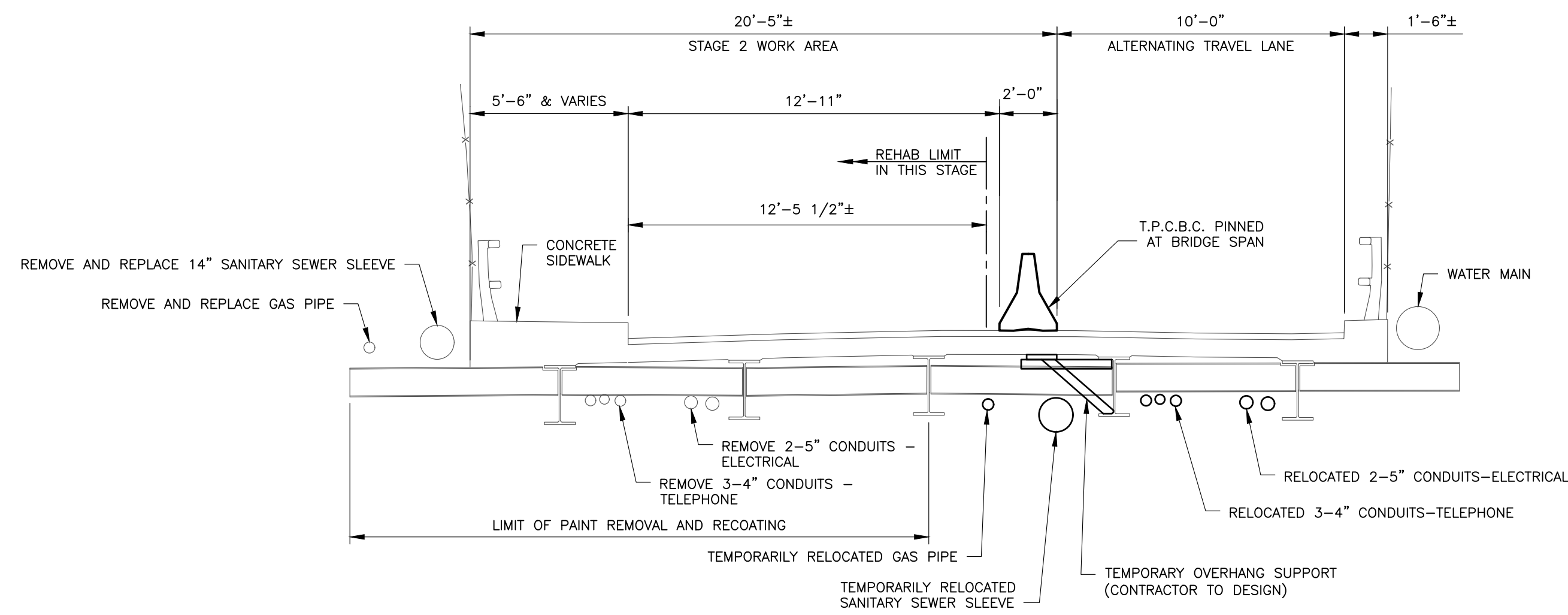
Project Contact Info
1344 Silas Deane Highway
Suite 500
Rocky Hill, CT 06067 Phone: (860) 563-2341

| WORK ZONE TRAFFIC CONTROL – STAGE 1 | | | |
|---|----------|------------|-----|
| REHABILITATION OF HALF MOON BAY BRIDGE OVER METRO NORTH RAILROAD YARD VILLAGE OF CROTON-ON-HUDSON COUNTY OF WESTCHESTER, STATE OF NEW YORK | | | |
| Date | MM/DD/25 | Work Order | Rev |
| Scale | AS SHOWN | 12530.01 | S13 |



WORK ZONE TRAFFIC CONTROL PLAN – STAGE 2

SCALE: 1/16" = 1'-0"



WORK ZONE TRAFFIC CONTROL SECTION – STAGE 2

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

LEGEND

WORKING AREA STAGE 2

THIS DOCUMENT IS PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, ALTERATION, REVISION, DUPLICATION, OR USE WITHOUT THE CONSENT OF TECTONIC ENGINEERING IS PROHIBITED. COPYRIGHT 2021 TECTONIC ENGINEERING. ALL RIGHTS RESERVED.

COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL EMBOSSED SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.

ORIGINAL SIZE IN INCHES

| Rev | Date | Revision | Approved |
|-----|------|----------|----------|
| | | | |

| DRAWING CONTROL | | | |
|--|-----|--------------|-----|
| Designed by: | MHS | Drawn by: | KRF |
| Checked by: | JAS | Released by: | |
| Purpose: | | Date: | |
| <input type="radio"/> For Comment | | | |
| <input type="radio"/> For Approval | | | |
| <input type="radio"/> For Bid | | | |
| <input type="radio"/> For Construction | | | |

Tectonic
 PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.
 Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
 70 Pleasant Hill Road Phone: (845) 334-5959
 P.O. Box 37 (800) 829-6531
 Mountainville, NY 10953 www.tectonicengineering.com
 Project Contact Info
 1344 Silas Deane Highway
 Suite 500
 Rocky Hill, CT 06067 Phone: (860) 563-2341

| WORK ZONE TRAFFIC CONTROL – STAGE 2 | | | |
|---|----------|------------|-------------|
| REHABILITATION OF HALF MOON BAY BRIDGE OVER METRO NORTH RAILROAD YARD VILLAGE OF CROTON-ON-HUDSON COUNTY OF WESTCHESTER, STATE OF NEW YORK | | | |
| Date | MM/DD/25 | Work Order | Drawing No. |
| Scale | AS SHOWN | 12530.01 | S14 |