

LOCATION MAP
SHANDAKEN
7.5 MINUTE USGS TOPOGRAPHIC MAP
SCALE: 1" = 2000'

CONTRACT NO. TS-165

LITTLE PECK HOLLOW ROAD BRIDGE REPLACEMENT
PW-8296 FEMA 4020 DR NY

TOWN OF SHANDAKEN ULSTER COUNTY NEW YORK

TOWN OFFICIALS

ROBERT A. STANLEY, TOWN SUPERVISOR

TOWN COUNCIL
TIMOTHY MALLORY
FAYE STORMS
PETER DISCIAFANI
GAEL ALBA

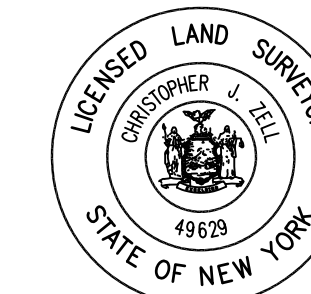
JOYCE GRANT, TOWN CLERK
ERIC HOFMEISTER, HIGHWAY SUPERINTENDENT

APRIL 2016

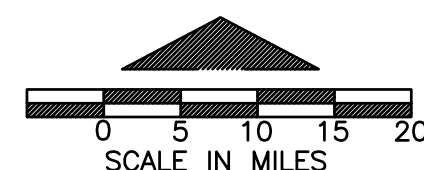
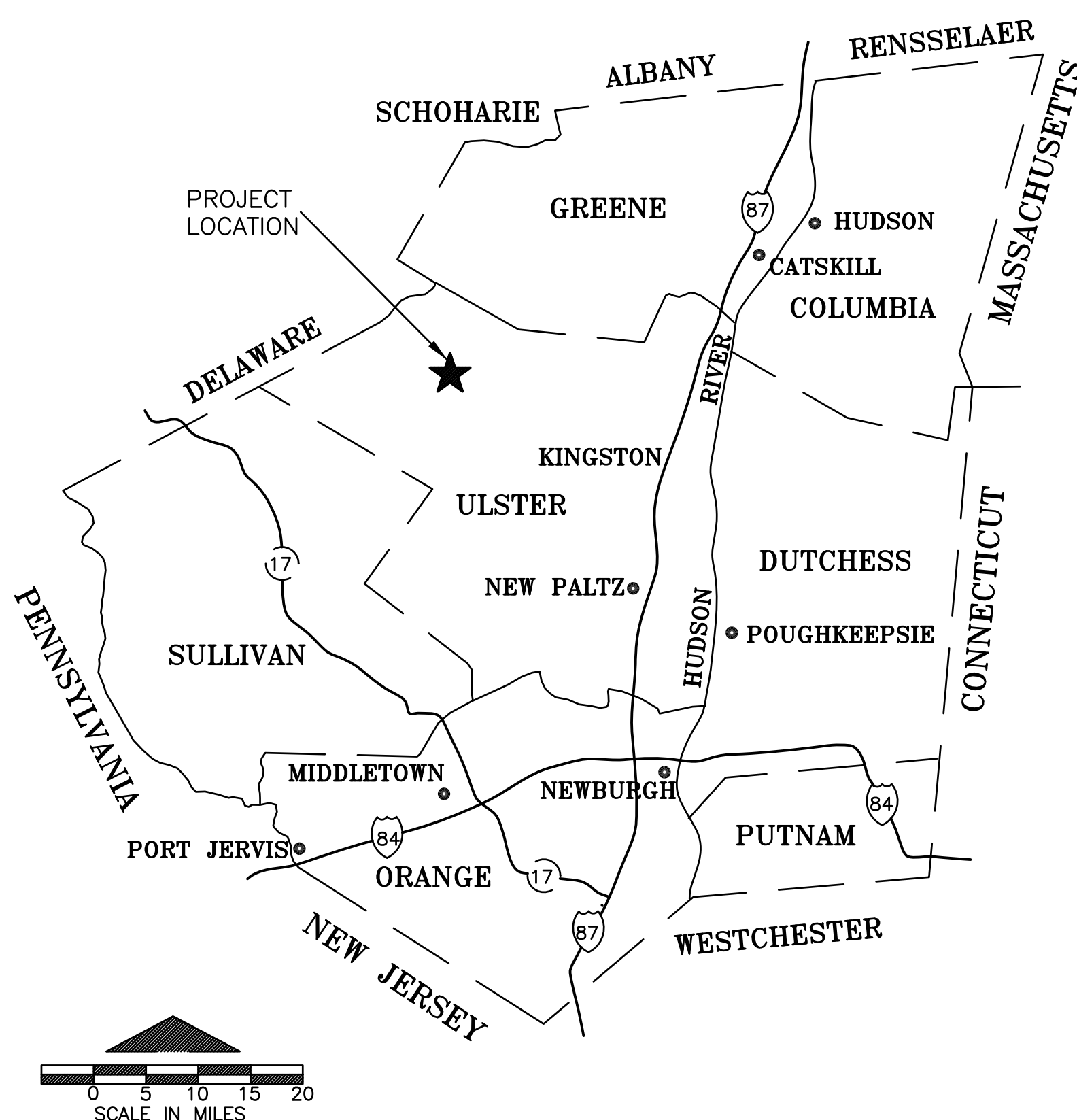
BRINNIER AND LARIOS, P. C.
PROFESSIONAL ENGINEERS AND LAND SURVEYORS
67 MAIDEN LANE
KINGSTON, NEW YORK
(845) 338-7622



Unauthorized alteration or addition to a plan
bearing a licensed engineer's seal is a
violation of section 7209, subdivision 2, of the
New York State Education Law.



SHEET INDEX	
SHEET NO.	DESCRIPTION
C1.	EXISTING CONDITIONS
C2.	TEMPORARY ACCESS ROAD
C3.	STREAM PROTECTION AND DEMOLITION PLANS
C4.	SITE PLAN
S1.	FOUNDATION PLAN AND STRUCTUAL NOTES
S2.	BRIDGE FRAMING PLAN
S3.	SECTIONS AND DETAILS
S4.	GUIDE RAIL PLAN
S5.	GUIDE RAIL DETAILS
S6.	ALTERNATE BID #1 FOUNDATION PLAN
S7.	ALTERNATE BID #1 SECTION AND DETAILS

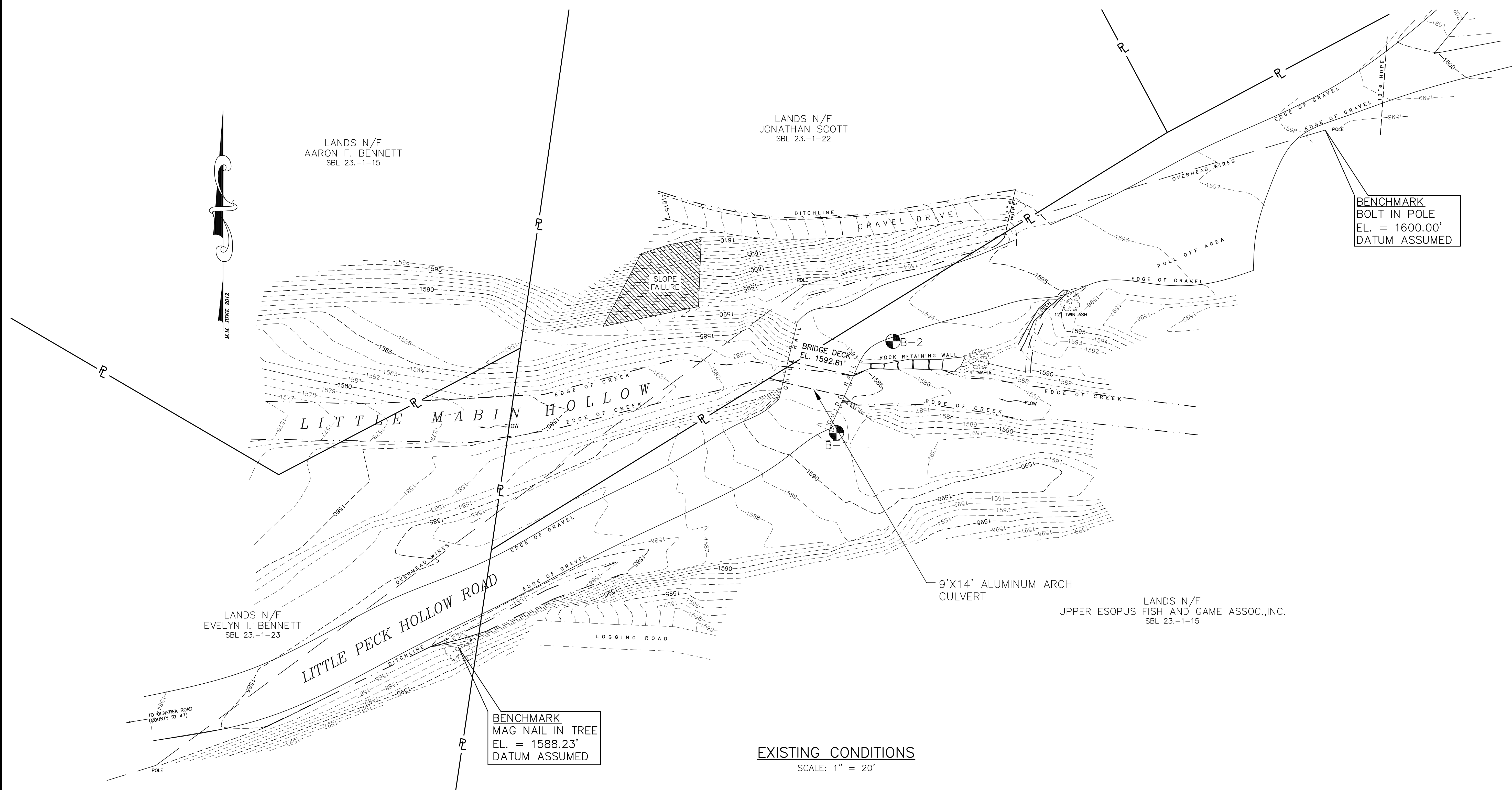


GENERAL LOCATION MAP



Know what's below.
Call before you dig.

JOHN STINEMIRE, P.E., CONSULTING ENGINEER
15 RAILROAD AVENUE KINGSTON, NEW YORK 12401 845-331-8806



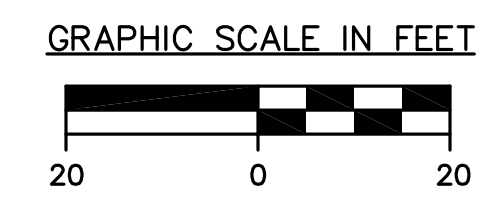
LEGEND

- 1590--- EXISTING CONTOUR (MAJOR)
- 1589--- EXISTING CONTOUR (MINOR)
- P— EXISTING PROPERTY LINE
- TREE
- · · · — EDGE OF STREAM
- STORM CULVERT
- GRAVEL ROAD
- B-1 BORING

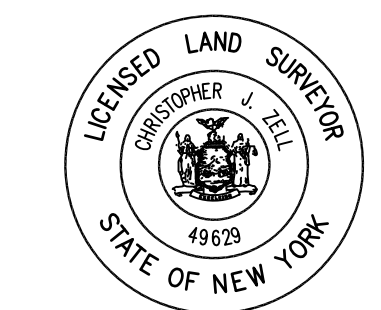
NOTES:
1. PROPERTY LINES ARE APPROXIMATE
AND WERE OBTAINED FROM THE
ULSTER COUNTY TAX MAPS.

NOTE:
The location of existing underground utilities are shown in an
approximate way only and have not been independently verified by
the owner or its representative. The contractor shall determine
the exact location of all existing utilities before commencing work,
and agrees to be fully responsible for any and all damages which
might be occasioned by the contractor's failure to exactly locate
and preserve any and all underground utilities.

EXISTING CONDITIONS
SCALE: 1" = 20'



JOHN STINEMIRE, P.E., CONSULTING ENGINEER
15 RAILROAD AVENUE KINGSTON, NEW YORK 12401 845-331-8806

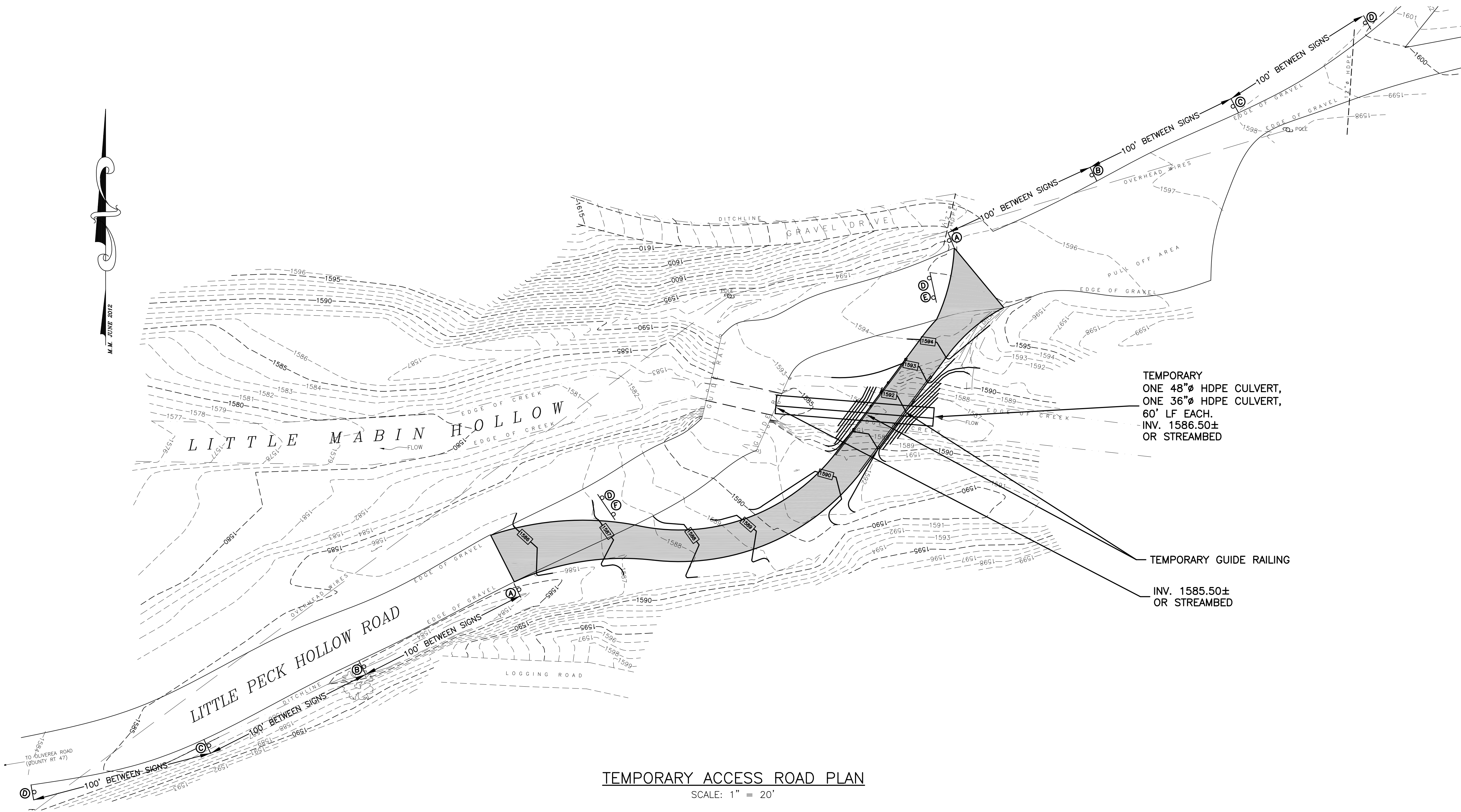


Unauthorized alteration or addition to a plan
bearing a licensed engineer's seal is a
violation of section 7209, subdivision 2, of the
New York State Education Law.

EXISTING CONDITIONS
CONTRACT NO. TS-165

LITTLE PECK HOLLOW RD. BRIDGE REPLACEMENT PW-8296 FEMA 4020 DR NY									
TOWN OF SHANDAKEN				ULSTER COUNTY				NEW YORK	
DATE	REVISION			RECORD			BRINNIER & LARIOS, P.C. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y.		
SCALE				DATE				SHEET NO.	
1" = 20'				APRIL 2016				C1	
				DWG RJS		CHK DML			

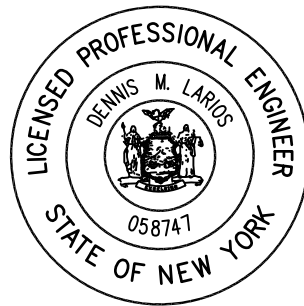
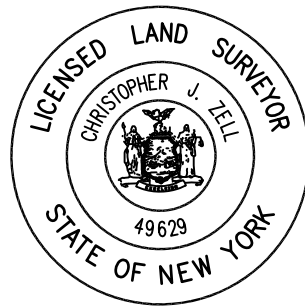
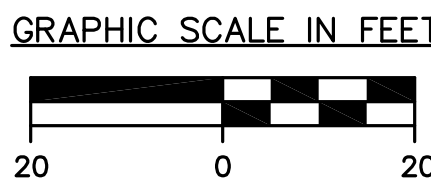
DATE: JUNE 2012



LEGEND	
	EXISTING CONTOUR (MAJOR)
	EXISTING CONTOUR (MINOR)
	PROPOSED TEMPORARY CONTOUR
	EXISTING PROPERTY LINE
	TREE
	EDGE OF STREAM
	STORM CULVERT
	GRAVEL ROAD
	TEMPORARY GRAVEL ACCESS ROAD

NOTE:
The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

JOHN STINEMIRE, P.E., CONSULTING ENGINEER
15 RAILROAD AVENUE KINGSTON, NEW YORK 12401 845-331-8806



Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

SIGN NO.	ADVANCE SIGN SCHEDULE	NO. REQ.
(A)	R1-2	2
(B)	W3-2A	2
(C)	W20-4	2
(D)	W20-1	2
(E)	R11-2 WITH ITEM 619.04 TYPE III CONSTRUCTION BARRICADES	2
(F)	M4-10L	1
(G)	M4-10R	1

ALL SIGNS CONVENTIONAL ROAD SIZE

- NOTES:
- IF AN UNOBSTRUCTED LINE OF SIGHT IS NOT PROVIDED BETWEEN THE TWO TEMPORARY ROAD STOP BARS, CONTRACTOR SHALL PROVIDE A TEMPORARY 1 - LANE, 2 - WAY TRAFFIC SIGNAL DETOUR PLAN IN ACCORDANCE WITH NYS DOT WORK ZONE TRAFFIC CONTROL SHEET 619-62.
 - CONTRACTOR SHALL MAINTAIN THE SINGLE LANE GRAVEL ROADWAY THROUGHOUT THE DURATION OF THE PROJECT.
 - REMOVE TEMPORARY GRAVEL CONSTRUCTION ROAD AND RESTORE ALL DISTURBED AREAS AFTER COMPLETION OF THE LITTLE BIRCH ROAD REPLACEMENT BRIDGE.

TEMPORARY ACCESS ROAD PLAN
CONTRACT NO. TS-165





LITTLE PECK HOLLOW RD. BRIDGE REPLACEMENT PW-8296 FEMA 4020 DR NY		
TOWN OF SHANDAKEN		ULSTER COUNTY NEW YORK
DATE	REVISION	RECORD
BRINNIER & LARIOS, P.C. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y.		
SCALE	DATE	SHEET NO.
1" = 20'	APRIL 2016	C2
DWG. RJS	CHK. DML	

CONVENTIONAL ROAD SIZE

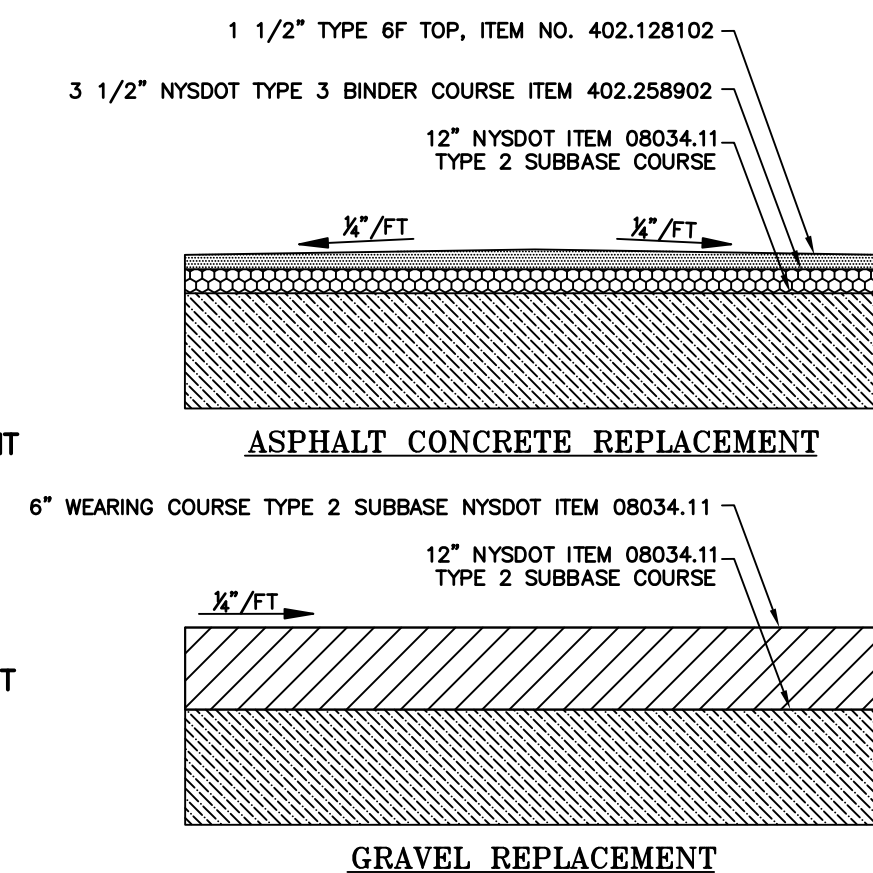
M.M. JUNE 2012

Legend:

- 1790 EXISTING CONTOUR (MAJOR)
- 1789 EXISTING CONTOUR (MINOR)
- 1804 PROPOSED CONTOURS
- TREE
- EDGE OF STREAM
- EXISTING OVERHEAD UTILITY LINES
- PROPOSED GUIDE RAIL

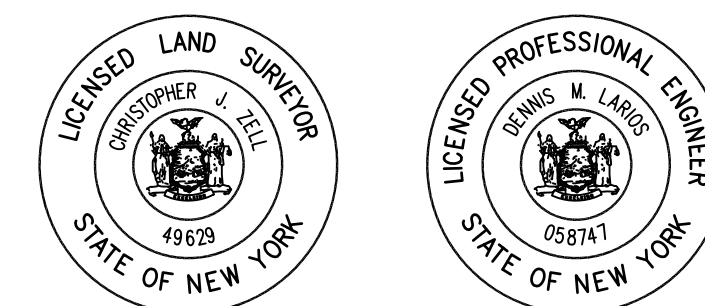
 PROPOSED ASPHALT CONCRETE PAVEMENT
 PROPOSED GRAVEL ROAD REPLACEMENT
 PROPOSED RIPRAP
 PROPOSED TRAFFIC SIGN

NOTE: The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.



GRAPHIC SCALE IN FEET

A horizontal scale bar with a black top half and a white bottom half. The bar is divided into segments by vertical lines. Below the bar, the numbers 20, 0, and 20 are printed, indicating distances in feet. The 0 is in the center, with 20 on either side.



PROPOSED BRIDGE PLAN/GRADING
CONTRACT NO. TS-165

LITTLE PECK HOLLOW RD. BRIDGE REPLACEMENT
PW-8296 FEMA 4020 DR NY

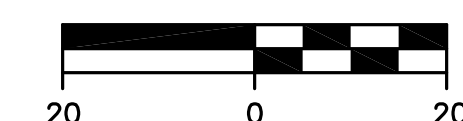
TOWN OF SHANDAKEN ULSTER COUNTY NEW YORK

DATE	REVISION	RECORD	BRINNIER & LARIOS, P.C. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.

		SCALE	DATE	SHEET NO.
		1" = 20'	APRIL 2016	C4
			DWG. CHK. DMI.	

JOHN STINEMIRE, P.E., CONSULTING ENGINEER
15 RAILROAD AVENUE KINGSTON, NEW YORK 12401 845-331-8806

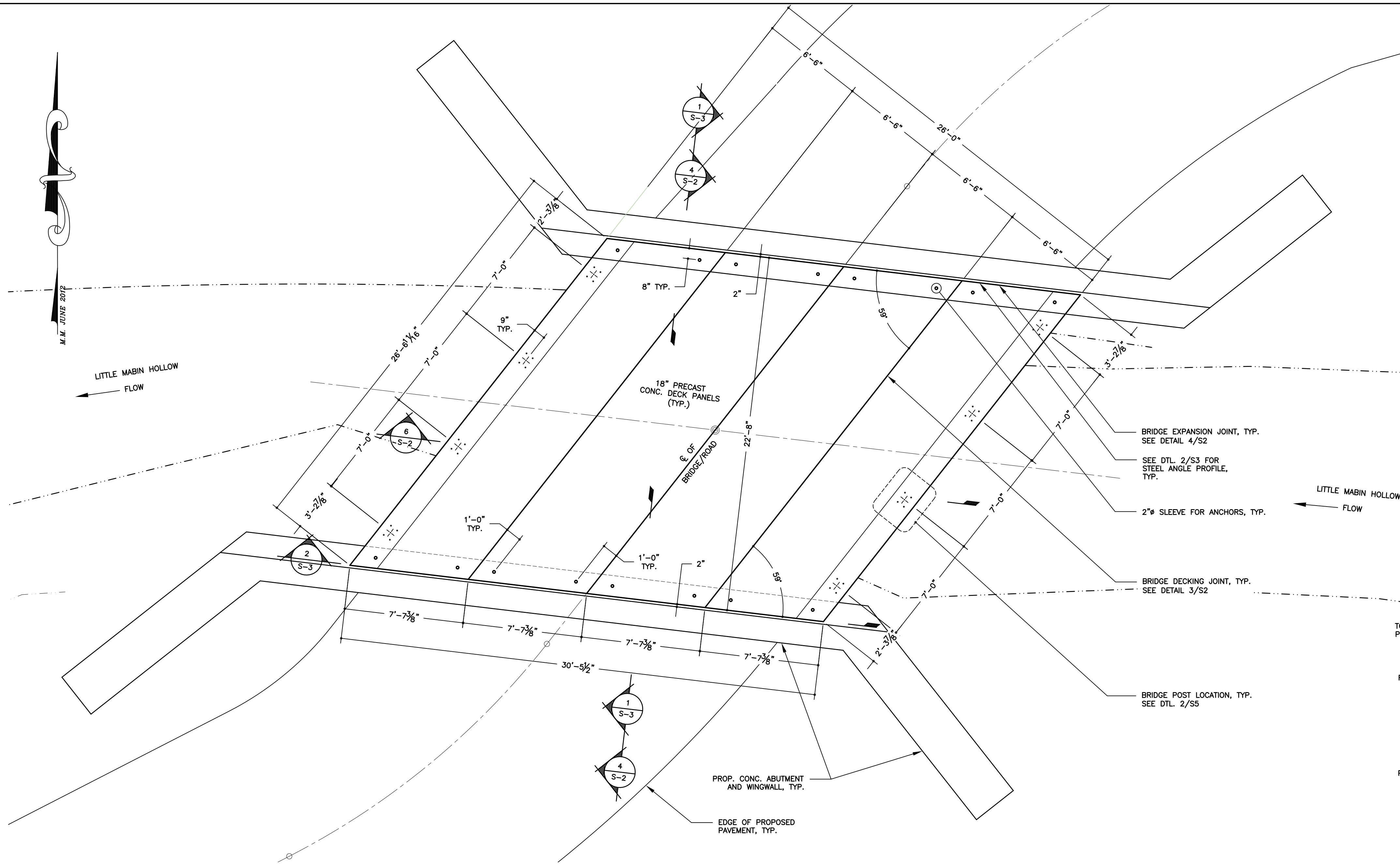
GRAPHIC SCALE IN FEET



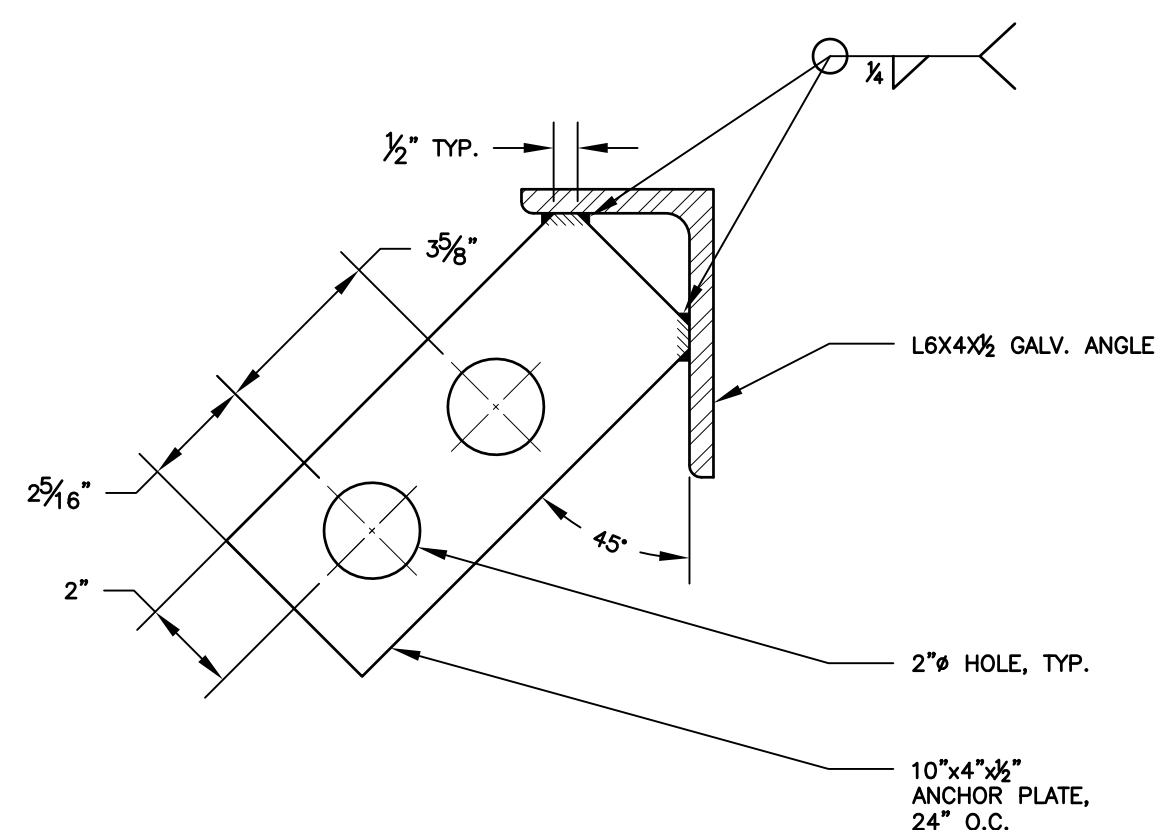
Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.



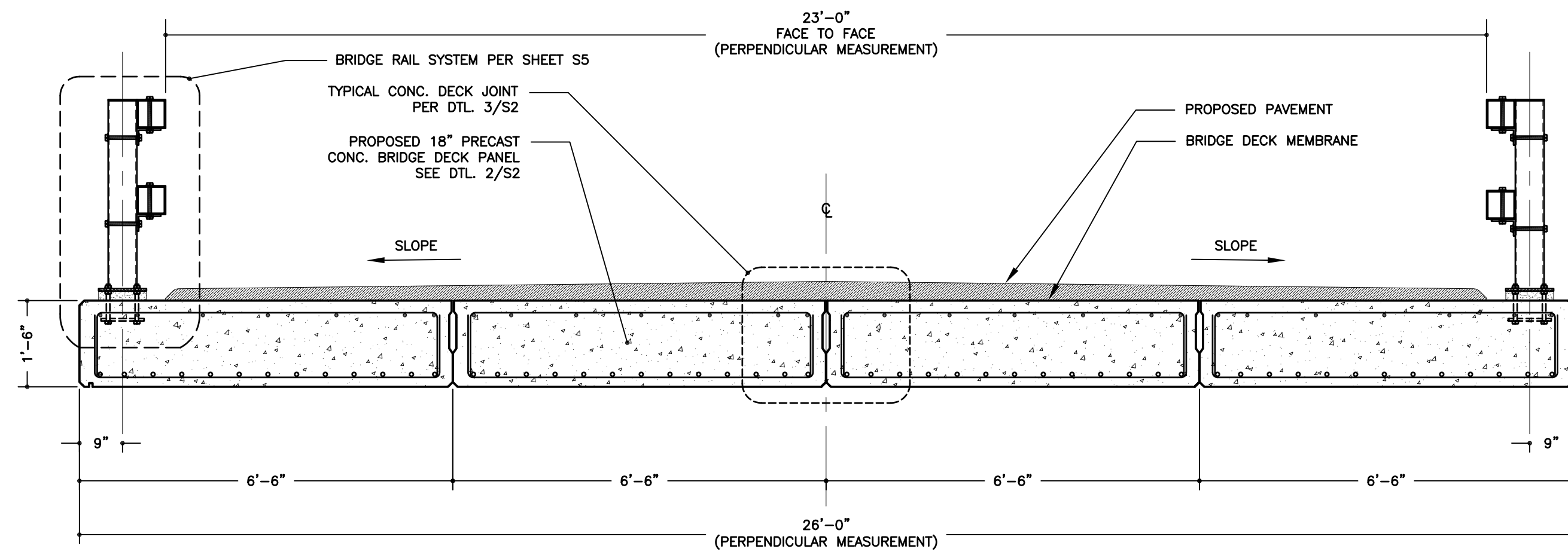
DATE	REVISION	RECORD	BRINNIE & LARIOS, P.C. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y.		
			SCALE	DATE	SHEET NO.
			AS SHOWN	APR. 2016	S1
				DWG. CHK.	
				WJH JFS	



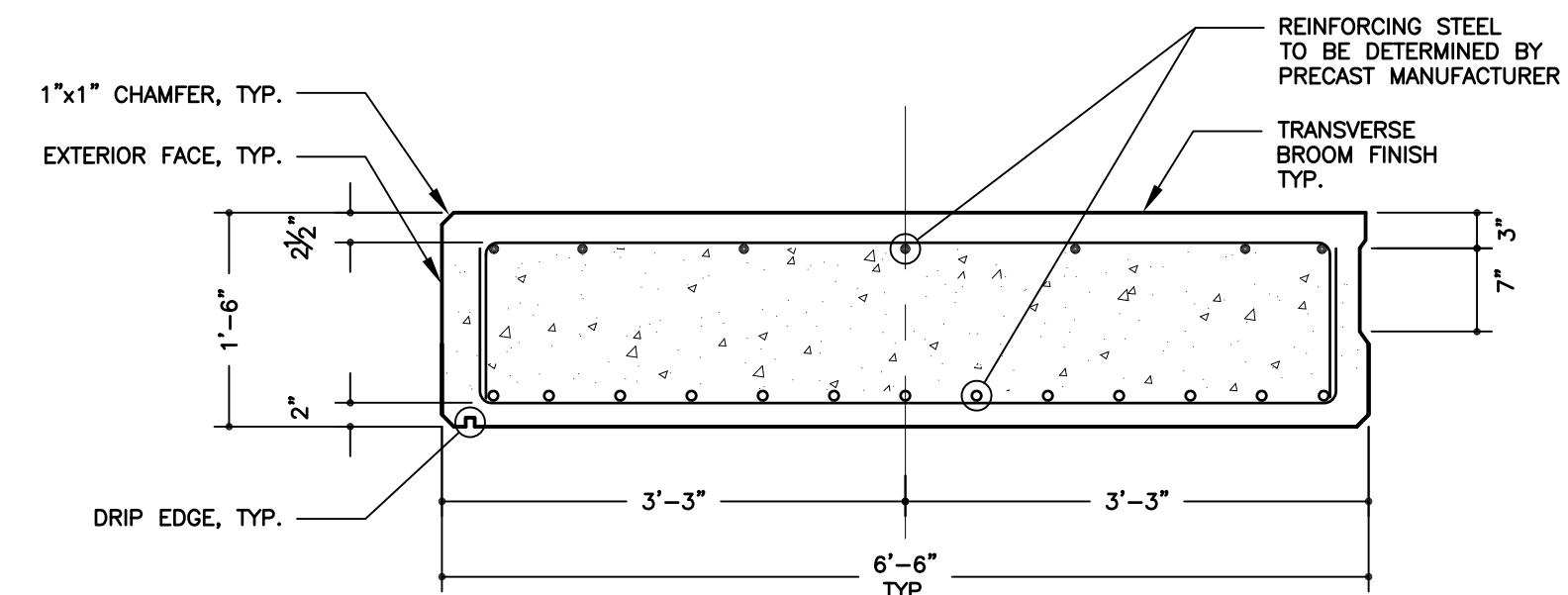
1 PRECAST CONC. DECK PLAN
S-2 SCALE: 1/4" = 1'-0"



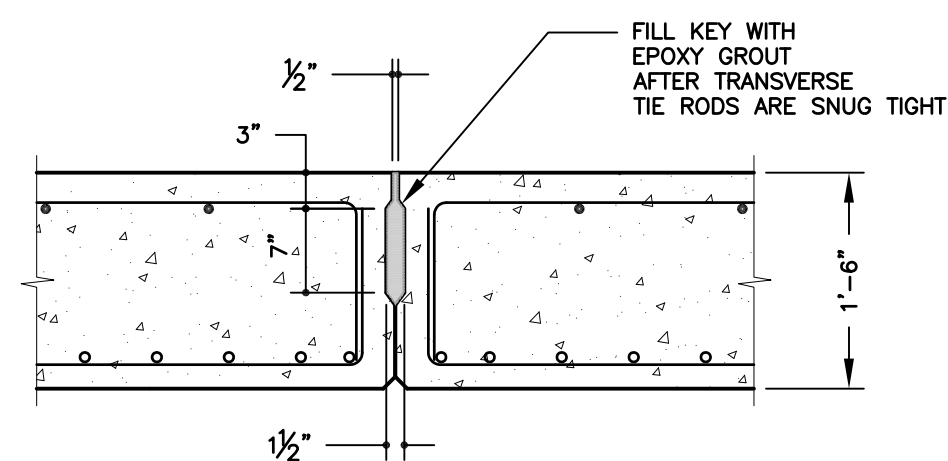
5 ANCHOR PLATE DETAIL
S-2 SCALE: 3" = 1'-0"



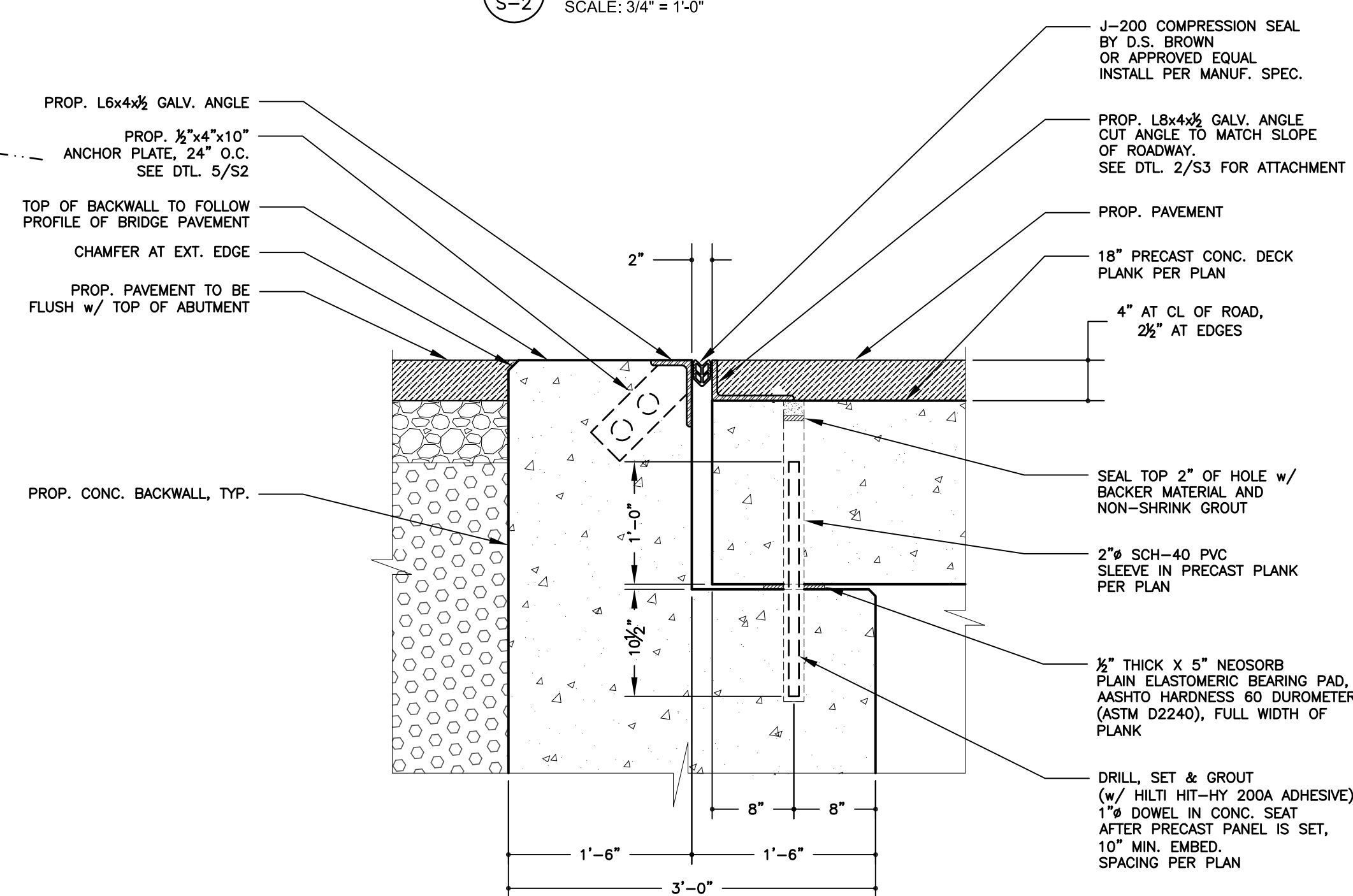
6 SECTION
S-2 SCALE: 1/2" = 1'-0"



2 CONC. DECK PLANK DETAIL
S-2 SCALE: 3/4" = 1'-0"



3 CONC. DECK JOINT DETAIL
S-2 SCALE: 3/4" = 1'-0"



NOTE:
1. REINFORCEMENT NOT SHOWN FOR CLARITY.
2. 1 1/8" HOLE IN L6x4x1/2 ANGLE AT EACH THREADED ROD. USE GALV. NUTS AND LARGE FLAT WASHERS WHEN ATTACHING ANGLE TO CONC.

4 PLANK BEARING DETAIL
S-2 SCALE: 1" = 1'-0"

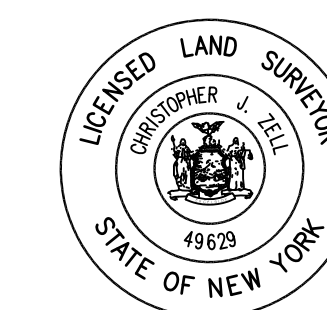
BRIDGE FRAMING PLAN CONTRACT NO. TS-165

LITTLE PECK HOLLOW ROAD BRIDGE REPLACEMENT PW-8296			FEMA 4020 DR. NY		
TOWN OF SHANDAKEN			ULSTER COUNTY		NEW YORK
DATE	REVISION RECORD		BRINNIER & LARIOS, P.C. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y.		
			SCALE	DATE	SHEET NO.
			AS SHOWN	APR. 2016	S2
			DWG	CHK	
			JH	JES	

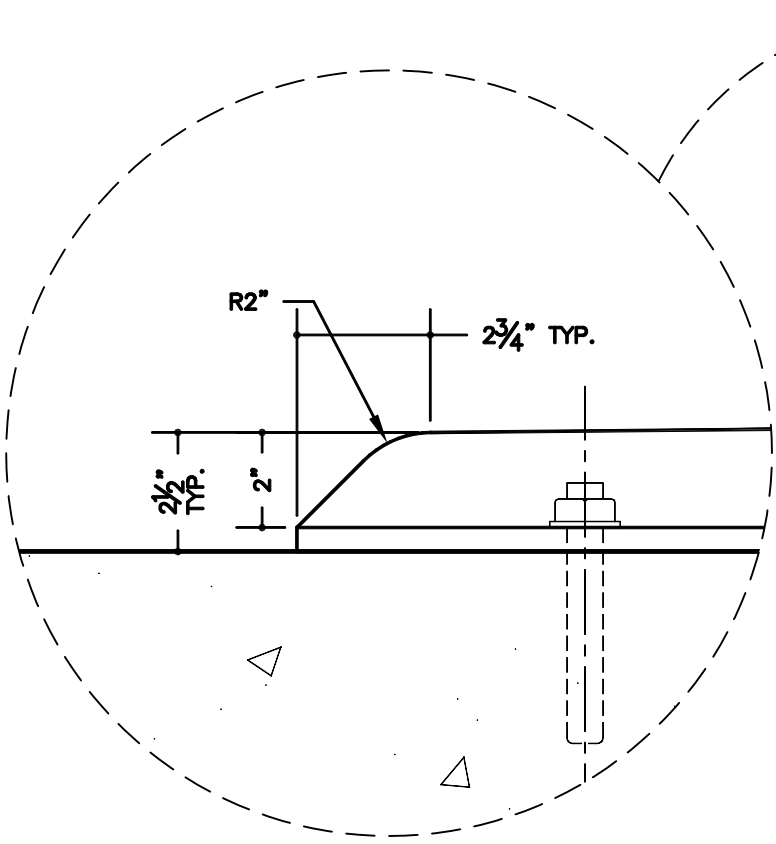
NOTE:
The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

NOTE: ALL DESIGN DIMENSIONS NOTED ON PLANS ARE BASED ON FABRICATION AND INSTALLATION OF STRUCTURAL ELEMENTS AT AN AMBIENT TEMPERATURE OF 68 DEGREES FAHRENHEIT

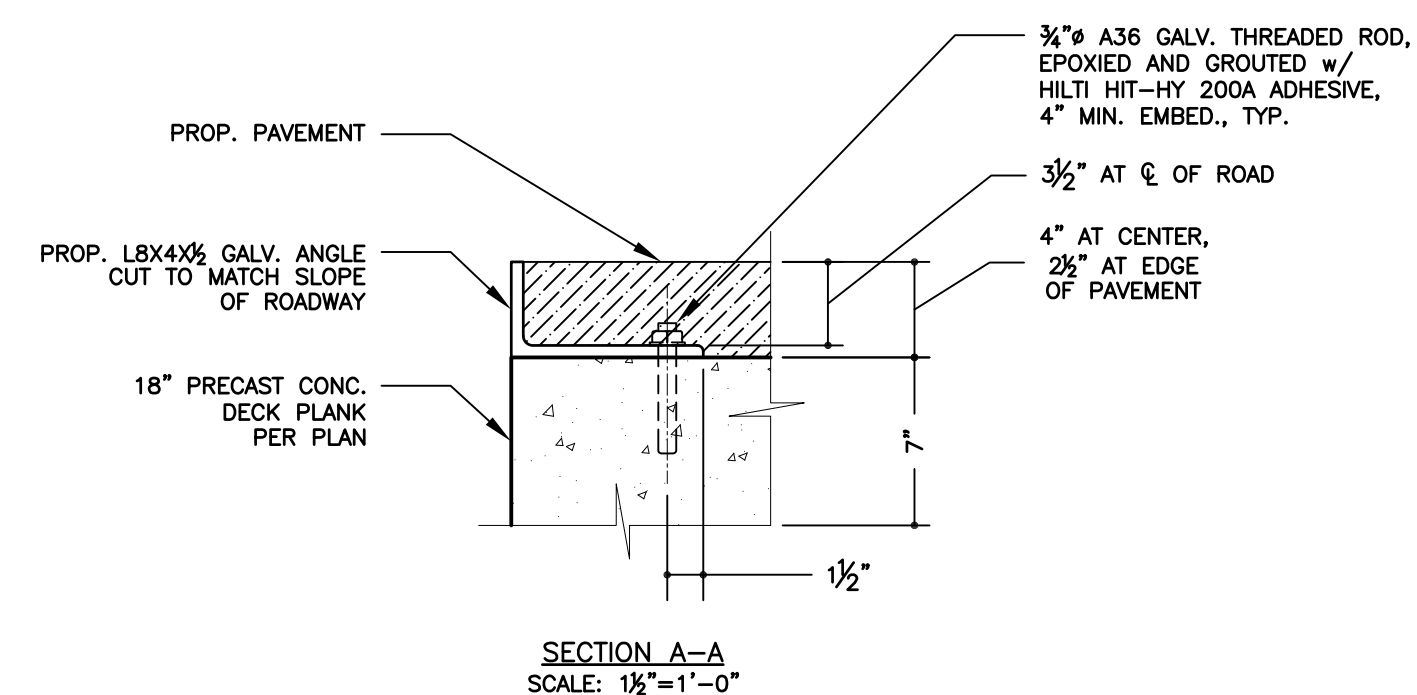
JOHN STINEMIRE, P.E., CONSULTING ENGINEER
15 RAILROAD AVENUE KINGSTON NEW YORK 12401 845-331-8806



Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.



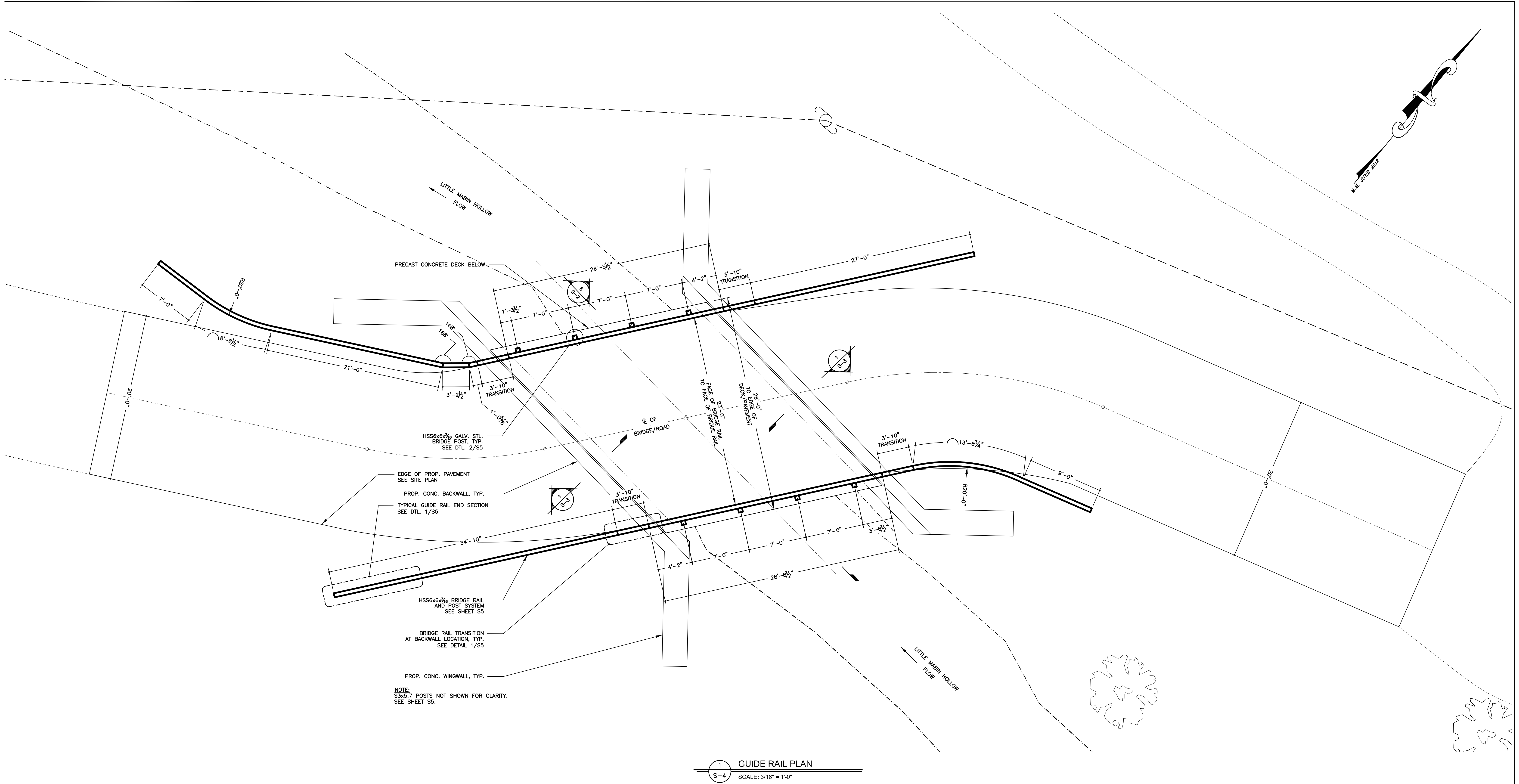
NOTES:
DIMENSIONS SHOWN ARE BASED ON SKEW OF BRIDGE



BRINNIE & LARIOS, P.C. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y.		
SCALE	DATE	SHEET NO.
AS SHOWN	APR. 2016	S3
	DWG. CHK. JH JFS	



JOHN STINEMIRE, P.E., CONSULTING ENGINEER
15 RAILROAD AVENUE KINGSTON NEW YORK 12401 845-331-8806



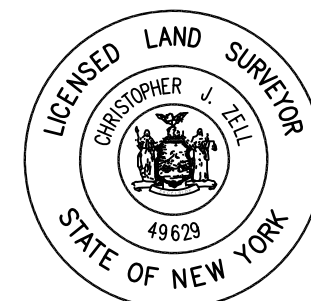
1 GUIDE RAIL PLAN
S-4 SCALE: 3/16" = 1'-0"

RAIL NOTES:

1. ALL BRIDGE RAIL AND GUIDE RAIL COMPONENTS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ALL FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.
2. BRIDGE RAIL DETAILS AND INSTALLATION SHALL BE IN ACCORDANCE WITH NYSDOT STANDARD BRIDGE DETAIL SHEETS UNLESS NOTED OTHERWISE.
3. BRIDGE RAIL SHALL BE DOUBLE BOX BEAM BRIDGE RAIL FOR LOW VOLUME BRIDGES IN ACCORDANCE WITH NYSDOT STANDARD SHEETS BR-RL3E, RL4E AND RL5E.
4. GUIDE RAIL FROM THE BRIDGE TRANSITION RAIL TO THE END SECTION SHALL BE BOX BEAM GUIDE RAIL WITH A TYPE IIA END ASSEMBLY CONSISTANT WITH NYSDOT STANDARD SHEET NUMBER 606-04 SHEET 1 THRU 4.

NOTE:
The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

JOHN STINEMIRE, P.E., CONSULTING ENGINEER
15 RAILROAD AVENUE KINGSTON NEW YORK 12401 845-331-8806



Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

GUIDE RAIL PLAN
CONTRACT NO. TS-165

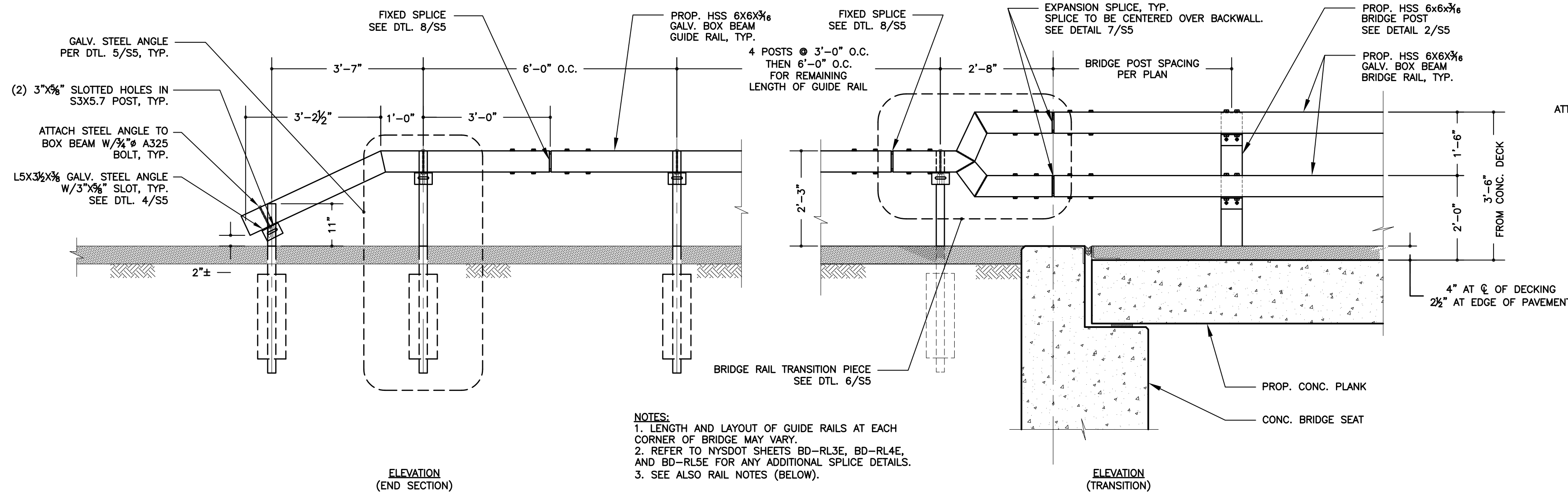
LITTLE PECK HOLLOW ROAD BRIDGE REPLACEMENT
PW-8296 FEMA 4020 DR. NY

TOWN OF SHANDAKEN ULSTER COUNTY NEW YORK

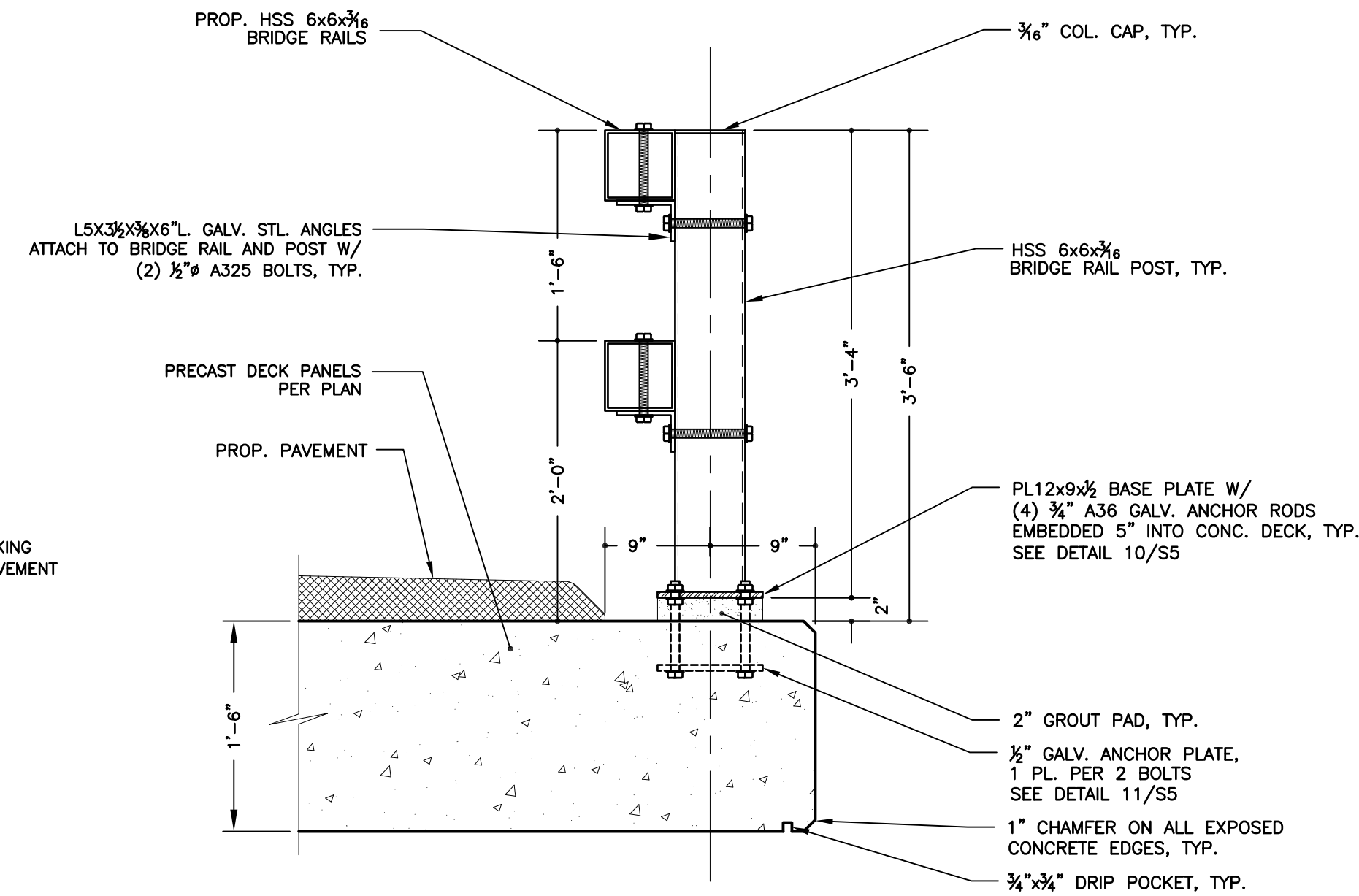
DATE REVISION RECORD

BRINNIER & LARIOS, P.C.
ENGINEERS & LAND SURVEYORS
67 MAIDEN LANE KINGSTON, N.Y.

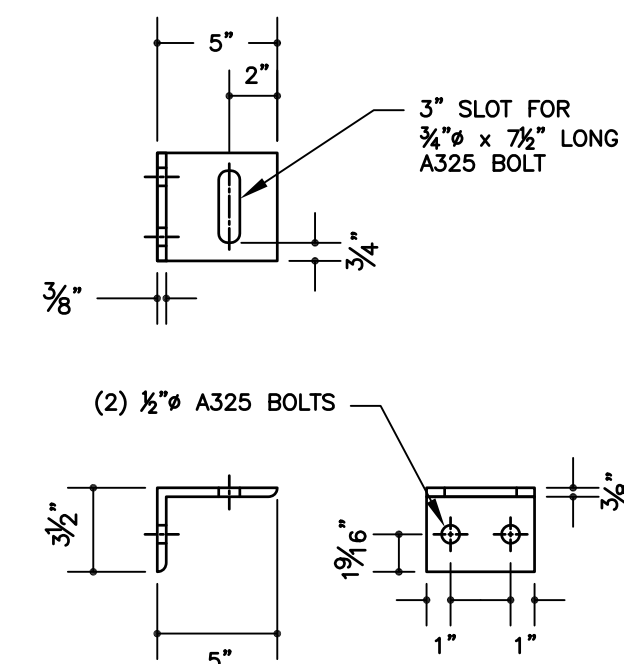
SCALE AS SHOWN DATE APR. 2016
DWG JH CHK JES SHEET NO. S4



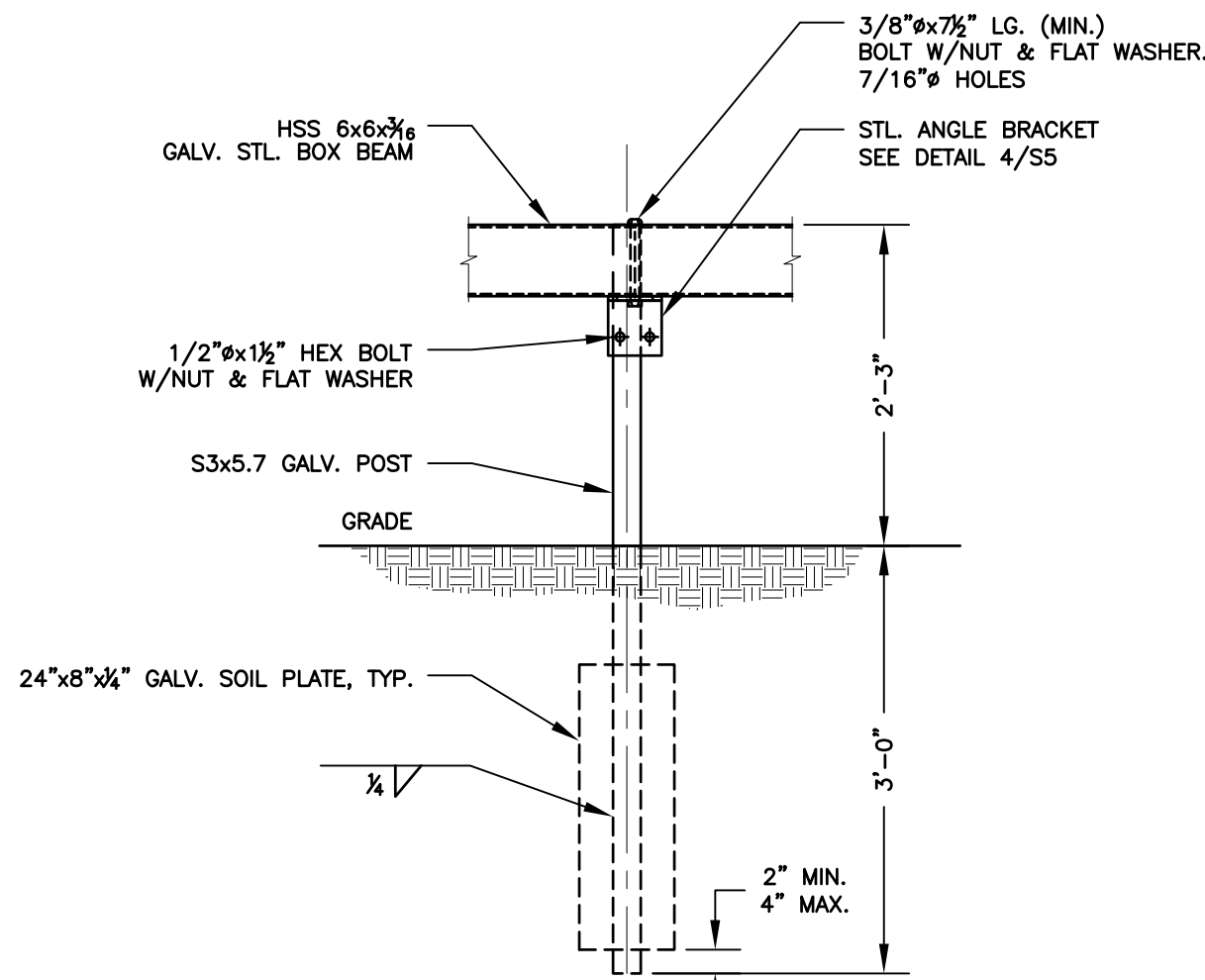
1 TYPICAL GUIDE RAIL ASSEMBLY
 SCALE: 1/2" = 1'-0"



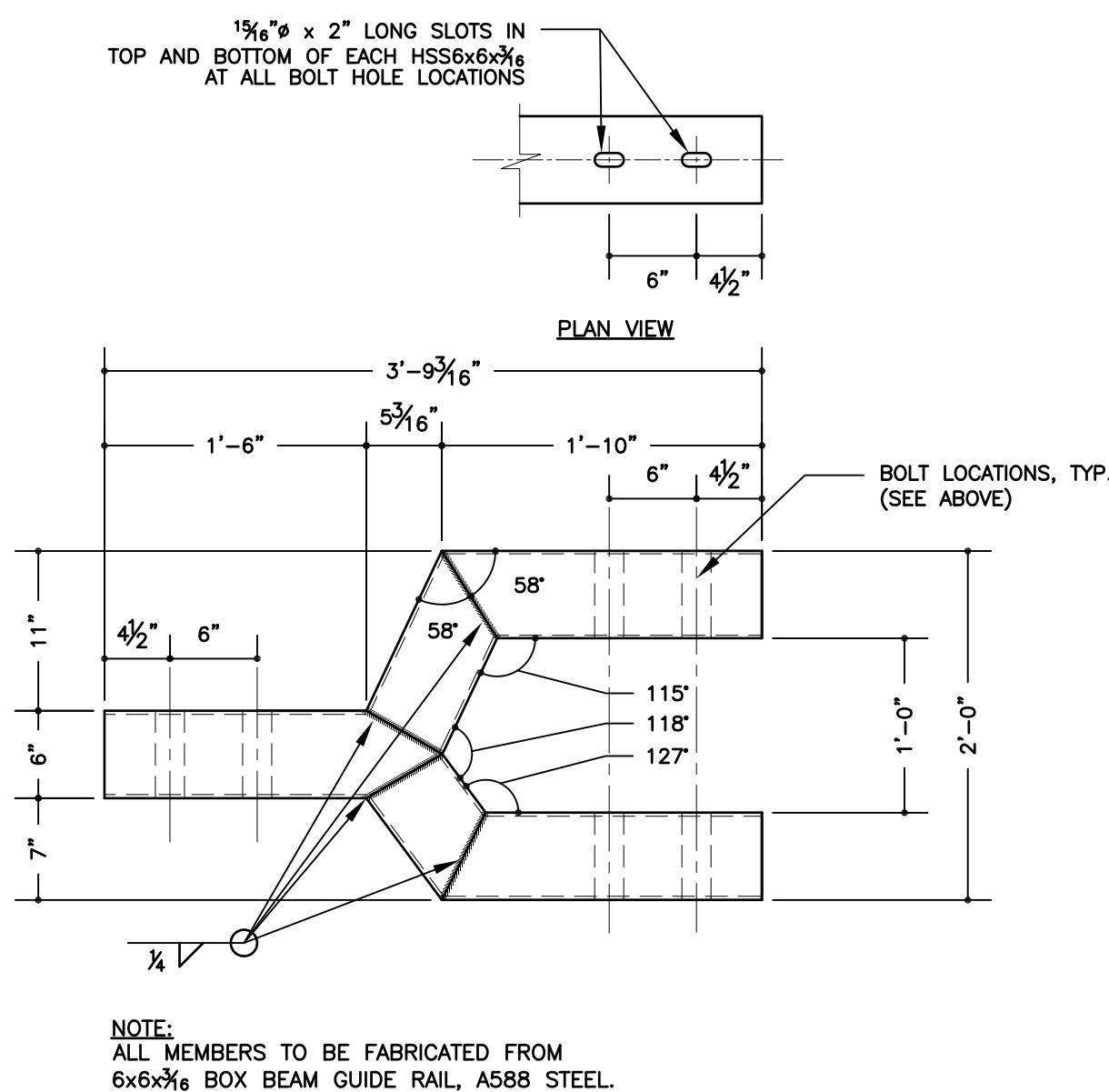
2 BOX BEAM BRIDGE RAIL DETAIL
 SCALE: 1" = 1'-0"



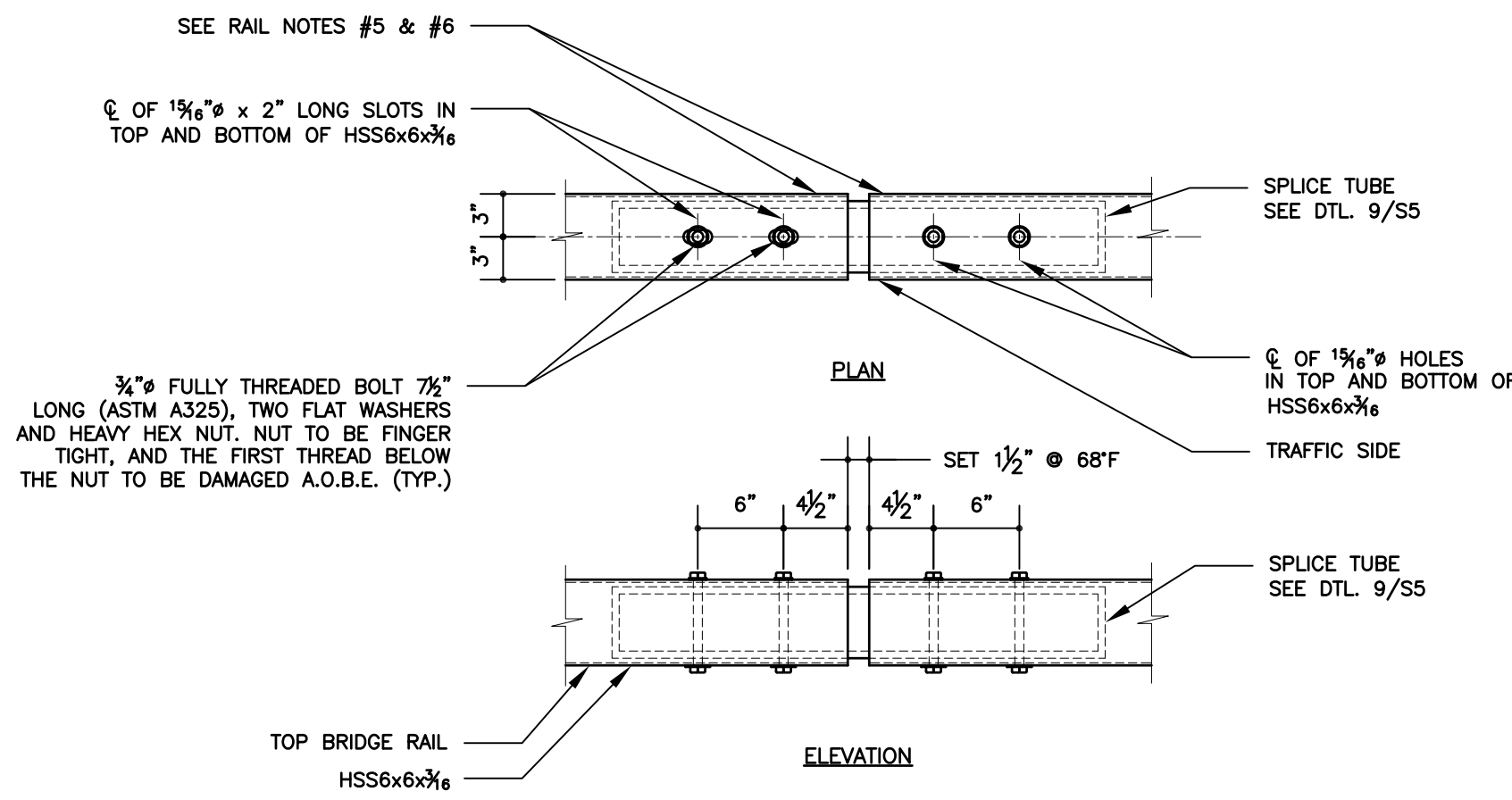
4 GALV. STL. ANGLE BRACKET DETAIL
 SCALE: 1-1/2" = 1'-0"



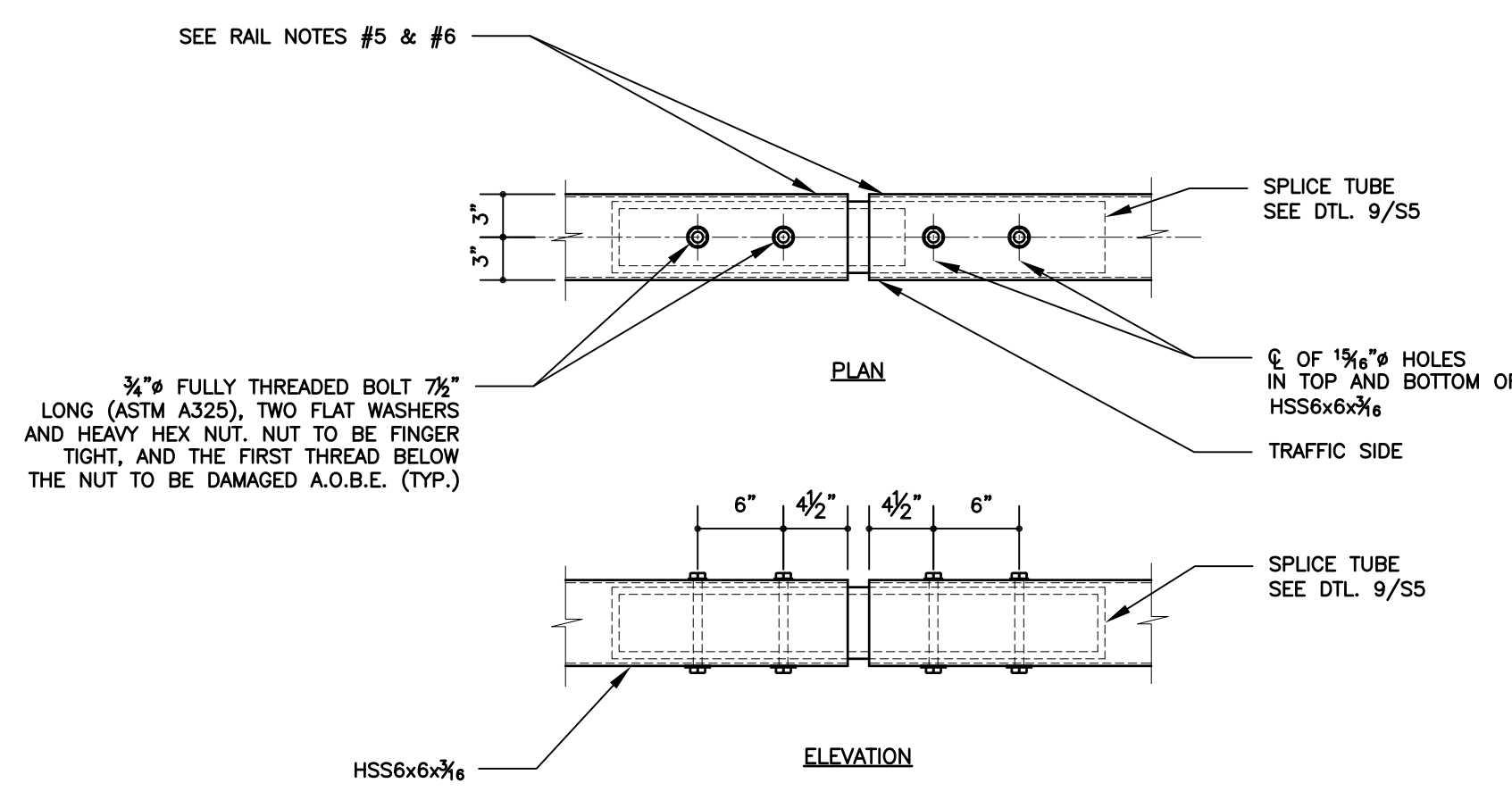
5 UNIVERSAL POST DETAIL
 SCALE: 3/4" = 1'-0"



6 BRIDGE RAIL TRANSITION DETAIL
 SCALE: 1" = 1'-0"



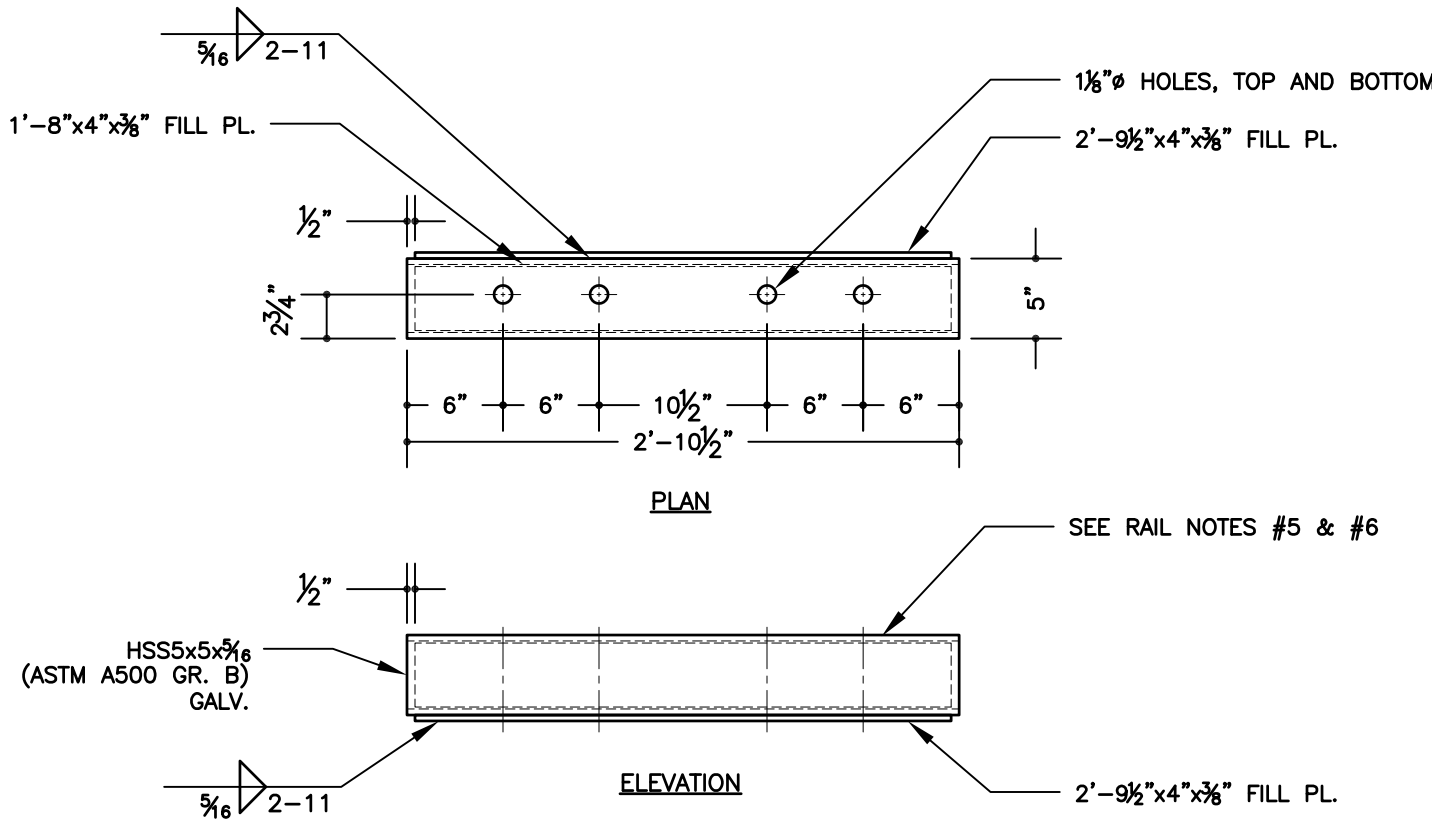
7 EXPANSION SPLICE DETAIL
 SCALE: 1" = 1'-0"



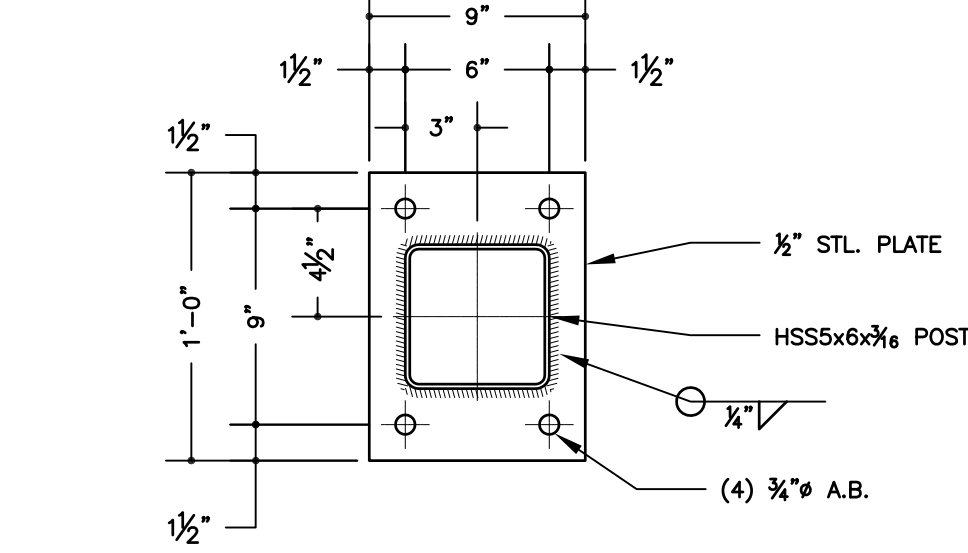
8 FIXED SPLICE DETAIL
 SCALE: 1" = 1'-0"

RAIL NOTES:
 1. ALL BRIDGE RAIL AND GUIDE RAIL COMPONENTS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ALL FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.
 2. BRIDGE RAIL DETAILS AND INSTALLATION SHALL BE IN ACCORDANCE WITH NYSDOT STANDARD BRIDGE DETAIL SHEETS UNLESS NOTED OTHERWISE.
 3. BRIDGE RAIL SHALL BE DOUBLE BOX BEAM BRIDGE RAIL FOR LOW VOLUME BRIDGES IN ACCORDANCE WITH NYSDOT STANDARD SHEETS BD-RL3E, RL4E AND RL5E.
 4. GUIDE RAIL FROM THE BRIDGE TRANSITION RAIL TO THE END SECTION SHALL BE BOX BEAM GUIDE RAIL WITH A TYPE IIA END ASSEMBLY CONSISTANT WITH NYSDOT STANDARD SHEET NUMBER 606-04 SHEET 1 THRU 4.
 5. PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE INSIDE WALLS OF THE SPLICE AREA.
 6. PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE OUTSIDE WALLS OF THE SPLICE TUBE AND THE OUTSIDE SURFACES OF THE FILL PLATES.

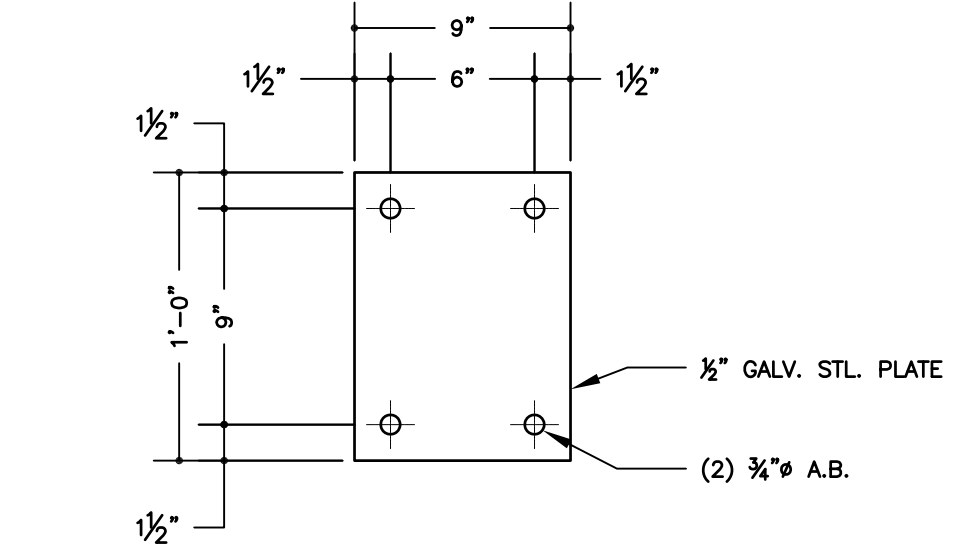
NOTE:
 The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.



9 SPLICE TUBE DETAIL
 SCALE: 1" = 1'-0"

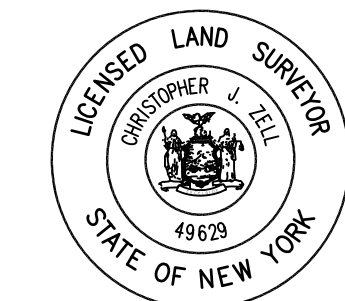


10 POST BASE PLATE (GUIDE RAIL POST)
 SCALE: 1-1/2" = 1'-0"



11 ANCHOR PLATE (GUIDE RAIL POST)
 SCALE: 1-1/2" = 1'-0"

JOHN STINEMIRE, P.E., CONSULTING ENGINEER
 15 RAILROAD AVENUE KINGSTON NEW YORK 12401 845-331-8806

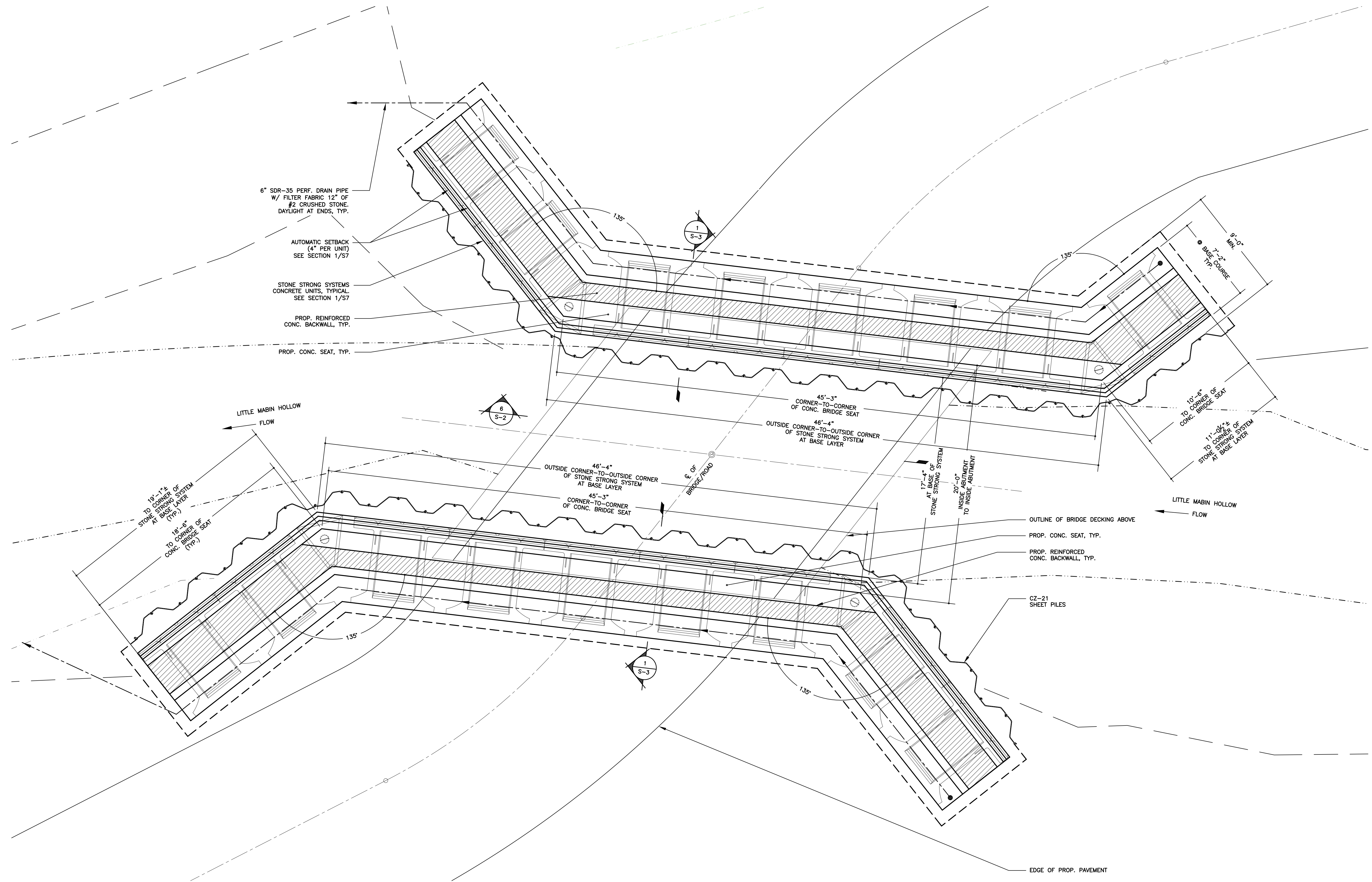


Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

GUIDE RAIL DETAILS
 CONTRACT NO. TS-165

LITTLE PECK HOLLOW ROAD BRIDGE REPLACEMENT PW-8296				FEMA 4020 DR. NY			
TOWN OF SHANDAKEN				ULSTER COUNTY		NEW YORK	
DATE	REVISION RECORD			BRINNIER & LARIOS, P.C. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y.			
SCALE		DATE		APR. 2016		SHEET NO.	
AS SHOWN		DWG JH		CHK JES		S5	

M.M. JUNE 2012

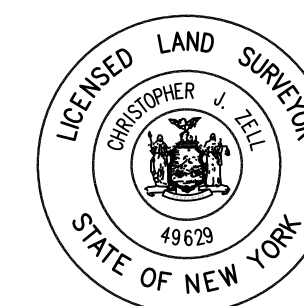


1
S-6
ALTERNATE BID #1 FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

ALTERNATE BID #1
FOUNDATION PLAN
CONTRACT NO. TS-165

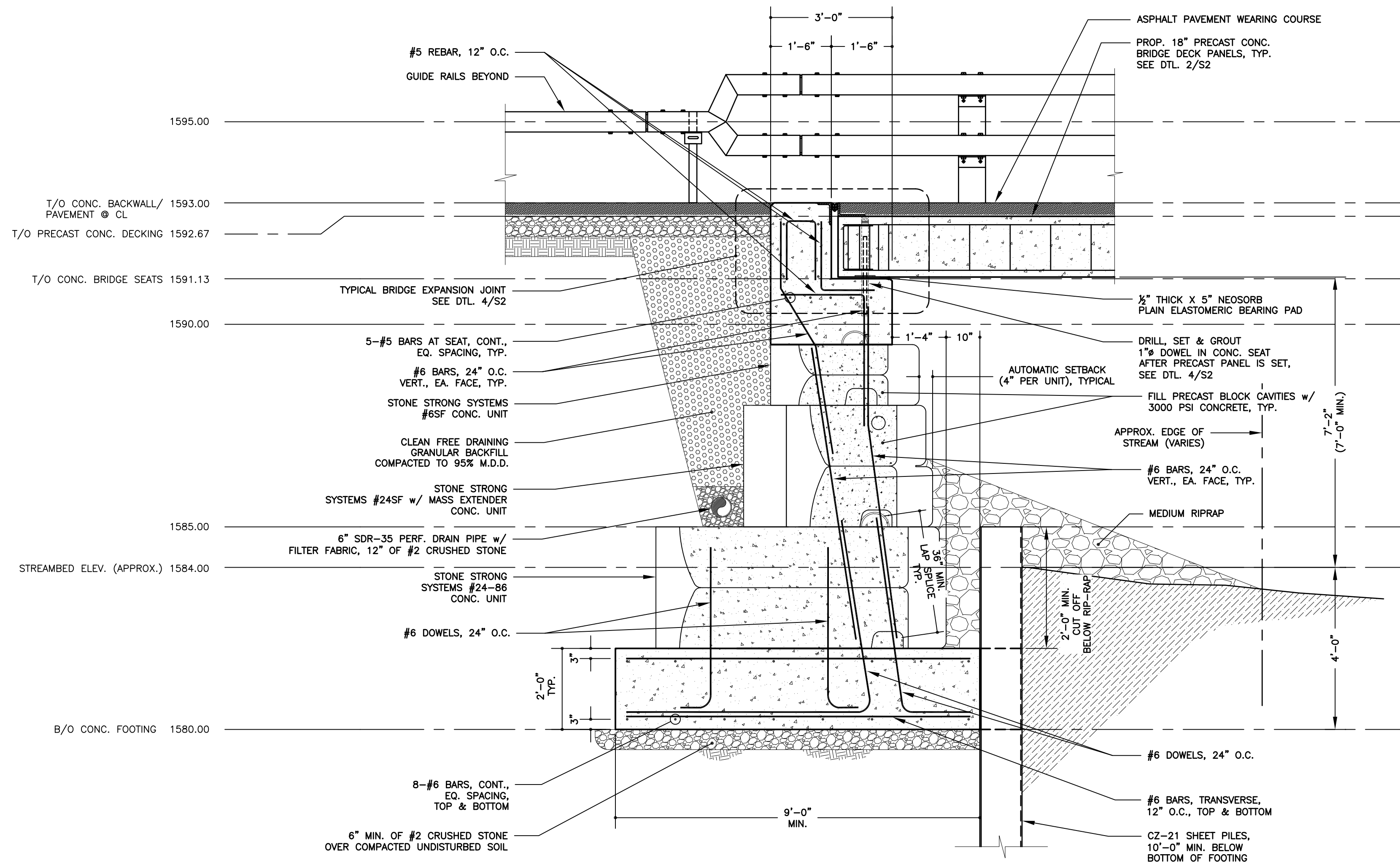
NOTE:
The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

JOHN STINEMIRE, P.E., CONSULTING ENGINEER
15 RAILROAD AVENUE KINGSTON NEW YORK 12401 845-331-8806

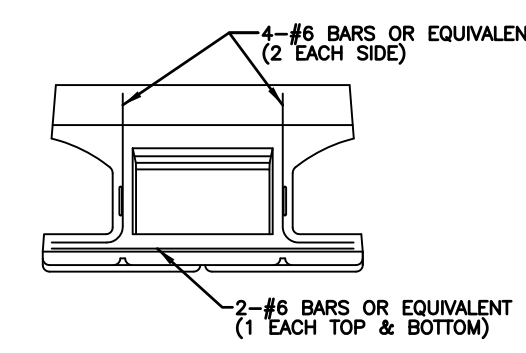
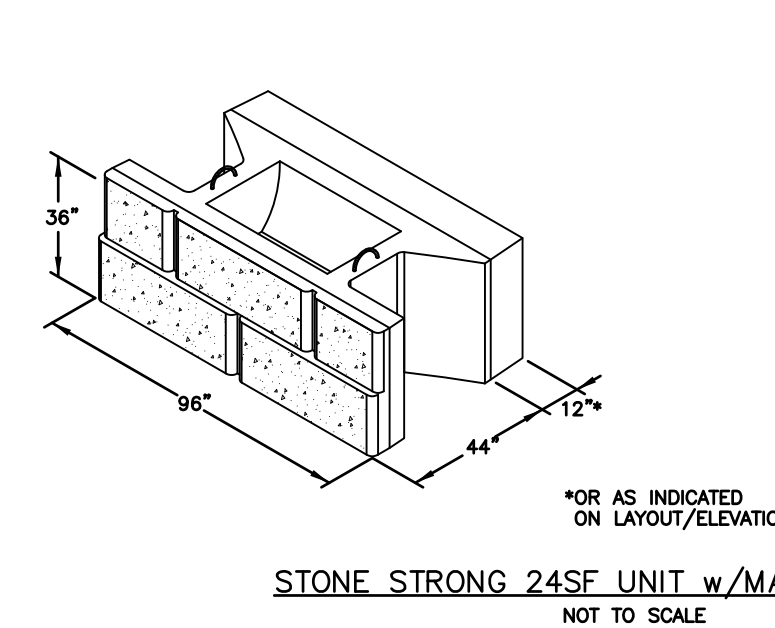
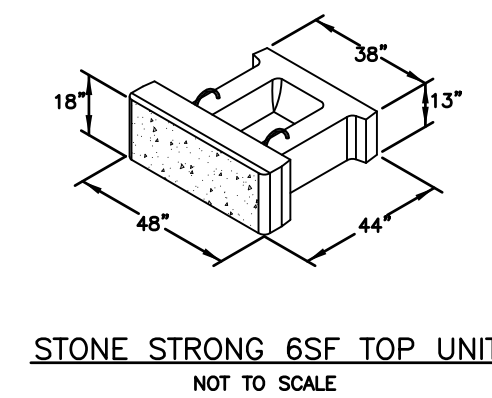
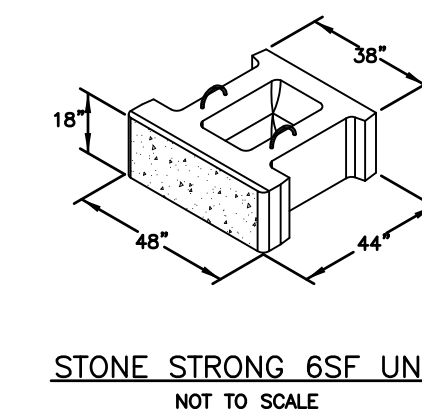


Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

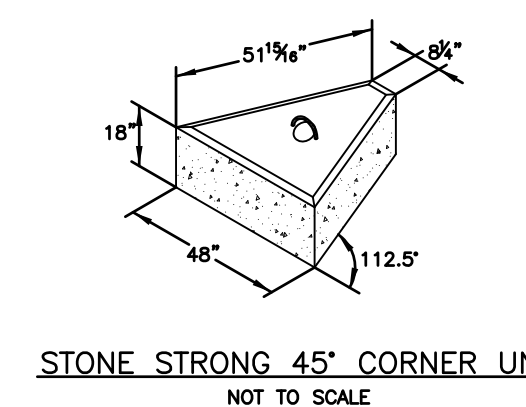
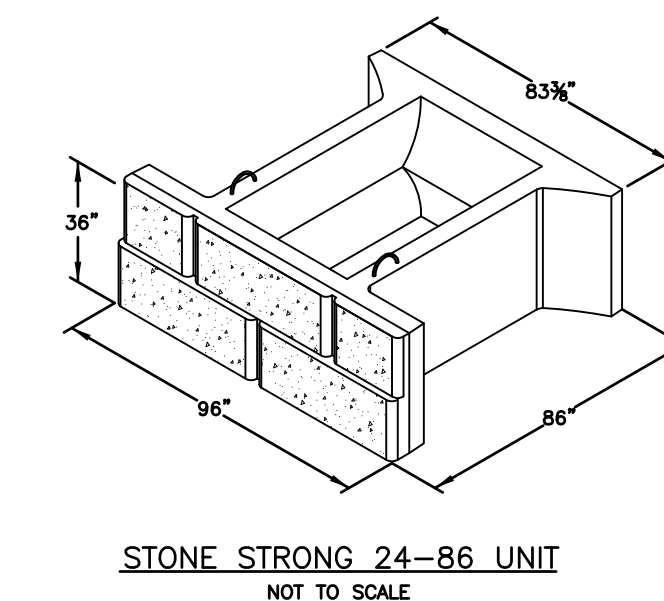
LITTLE PECK HOLLOW ROAD BRIDGE REPLACEMENT PW-8296				FEMA 4020 DR. NY	
TOWN OF SHANDAKEN		ULSTER COUNTY		NEW YORK	
DATE	REVISION RECORD		BRINNIER & LARIOS, P.C. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y.		
SCALE			DATE	SHEET NO.	
AS SHOWN			APR. 2016	S6	
			DWG JH	CHK JFS	



1
S-7
BRIDGE ABUTMENT SECTIONS (ALTERNATE)
SCALE: 1/2" = 1'-0"



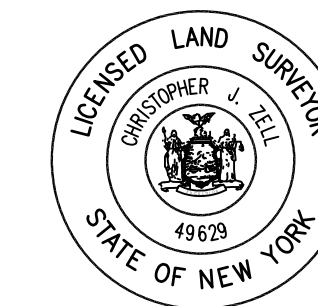
NOTES:
CHISELED GRANITE STYLE HAS 4 DIFFERENT FACE PATTERNS ON 24-86 BLOCKS.
INSTALL A, B, C, & D PATTERNS AT RANDOM IN WALL.



2
S-7
STONE STRONG COMPONENTS
N.T.S.

NOTE:
The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

JOHN STINEMIRE, P.E., CONSULTING ENGINEER
15 RAILROAD AVENUE KINGSTON NEW YORK 12401 845-331-8806



Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

ALTERNATE BID #1
SECTION & DETAILS
CONTRACT NO. TS-165

LITTLE PECK HOLLOW ROAD BRIDGE REPLACEMENT PW-8296				FEMA 4020 DR. NY	
TOWN OF SHANDAKEN		ULSTER COUNTY		NEW YORK	
DATE	REVISION RECORD		BRINNIER & LARIOS, P.C. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y.		
SCALE		DATE	SHEET NO.		
AS SHOWN		APR. 2016	S7		
	DWG JH	CHK JES			