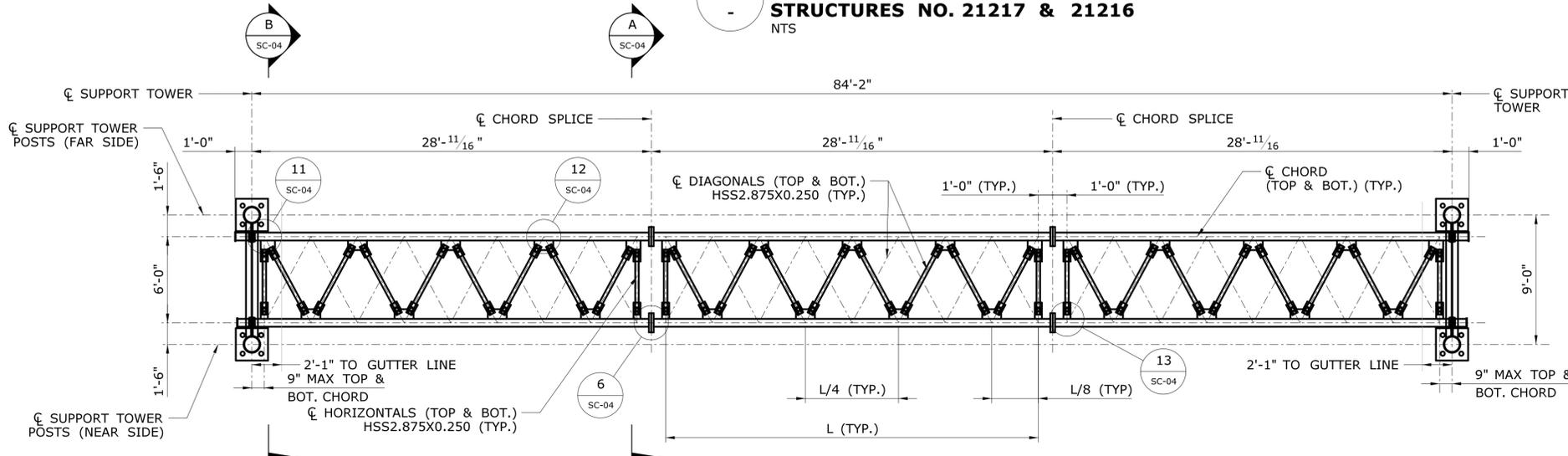
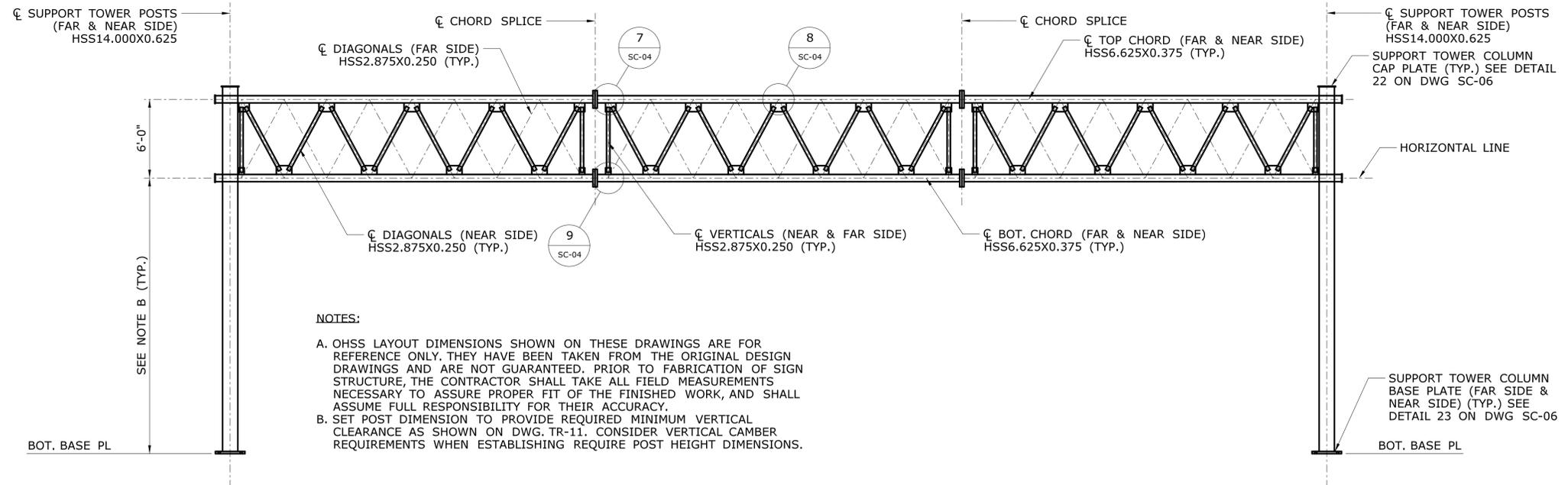


1 CAMBER DIAGRAM
-
STRUCTURES NO. 21217 & 21216
NTS



2 4 CHORD OHSS (BRIDGE MOUNTED) PLAN
-
STRUCTURES NO. 21217 & 21216
SCALE: 3/16" = 1'-0"



3 4 CHORD OHSS (BRIDGE MOUNTED) LONGITUDINAL ELEVATION
-
STRUCTURES NO. 21217 & 21216
SCALE: 3/16" = 1'-0"

NOTES:
A. OHSS LAYOUT DIMENSIONS SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. PRIOR TO FABRICATION OF SIGN STRUCTURE, THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK, AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY.
B. SET POST DIMENSION TO PROVIDE REQUIRED MINIMUM VERTICAL CLEARANCE AS SHOWN ON DWG. TR-11. CONSIDER VERTICAL CAMBER REQUIREMENTS WHEN ESTABLISHING REQUIRE POST HEIGHT DIMENSIONS.

OVERHEAD SIGN STRUCTURE NOTES:

THE 4 CHORD TRUSS BRIDGE SIGN STRUCTURE, INCLUDING THE ANCHORAGE TO THE PARAPETS, SHALL BE FABRICATED, ERECTED, ASSEMBLED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIAL PROVISION "4 CHORD TRUSS BRIDGE SIGN STRUCTURE (BRIDGE MOUNTED)". HARDWARE AND STRUCTURAL MEMBERS REQUIRED TO SUPPORT THE TRAFFIC APPURTENANCES, SHALL BE DESIGNED, FABRICATED, ERECTED, ASSEMBLED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIAL PROVISION "4 CHORD TRUSS BRIDGE SIGN STRUCTURE (BRIDGE MOUNTED)".

THE SIGN PANELS, INCLUDING CROWN PANELS AS APPLICABLE, SHALL BE LOCATED ON THE HORIZONTAL TRUSS BASED ON THE DIMENSIONS SHOWN ON THE TRAFFIC SHEETS AND THE ACTUAL SIGN SUPPORT DIMENSIONS. THE SIGN PANELS SHALL BE INSTALLED SYMMETRICALLY ABOUT THE CENTERLINE OF THE TRUSS. THE NUMBER AND SPACING OF PANEL SUPPORT MEMBERS SHALL BE DESIGNED AND DETERMINED BY THE CONTRACTOR BASED ON THE WIDTH OF THE SIGN AND CROWN PANELS AND THE SUPPORT MEMBER SPACING PARAMETERS. SIGN PANELS SHALL BE SUPPORTED BY NO LESS THAN 3 SUPPORT MEMBERS. CROWN PANELS SHALL BE SUPPORTED BY NO LESS THAN 2 SUPPORT MEMBERS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FIT OF THE SIGN SUPPORT STRUCTURES ON THE BRIDGE PARAPET. PRIOR TO FABRICATION, THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS TO VERIFY ALL SIGN SUPPORT DIMENSIONS DEPENDANT UPON THE CONSTRUCTED PARAPET. THE OVERHEAD MEMBER SHALL BE TEMPORARILY SUPPORTED, IN ORDER TO BRING ALL PLATES OF THE CONNECTIONS INTO FIRM CONTACT, WHILE THE HIGH STRENGTH BOLTS ARE INSTALLED AND TENSIONED. THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS TO ENSURE THE STABILITY OF ALL STRUCTURAL ELEMENTS UNTIL THE TOTAL STRUCTURE IS ERECTED.

THE COST OF THE TUBULAR STEEL MEMBERS, STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS, HIGH-STRENGTH BOLTS AND ANCHORAGE MATERIALS, INCLUDING THE DESIGN OF HARDWARE AND STRUCTURAL MEMBERS REQUIRED TO SUPPORT THE TRAFFIC APPURTENANCES, THE FABRICATION, COATING AND ERECTION, SHALL BE PAID FOR UNDER THE ITEM "4 CHORD TRUSS BRIDGE SIGN STRUCTURE (BRIDGE MOUNTED)".

ANY DIMENSIONS OF EXISTING STRUCTURES SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY.

OVERHEAD SIGN STRUCTURE LOCATIONS:

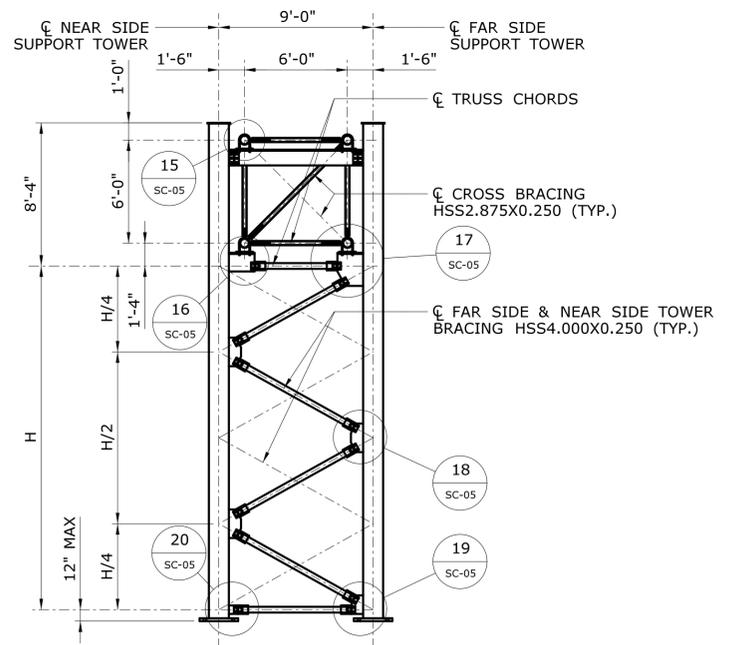
STRUCTURE NO.	STATION	LOCATION
21218	88+56.05	SPAN 7
21217	111+67.97	SPAN 20 (@ FB01)
21216	130+38.01	SPAN 25 (@ FB01)

DESIGN SPECIFICATIONS

STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 6TH EDITION

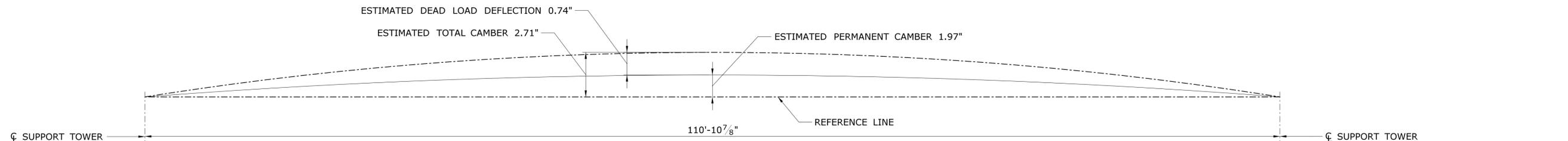
ICE LOADING = 3 PSF
BASIC WIND SPEED, V = 120 MPH
IMPORTANCE FACTOR, I = 1.0
DESIGN LIFE = 50 YEARS
DESIGN HEIGHT AND EXPOSURE:
NO. 21218: 105' EXPOSURE C
NO. 21216 & 21217: 200' EXPOSURE C

OHSS HAVE BEEN DESIGNED FOR THE SIGN LAYOUT AS SHOWN ON DWG. TR-11. ANY VARIATIONS TO THE SIGN LAYOUT WILL REQUIRE STRUCTURAL EVALUATION OF THE SIGN STRUCTURE.

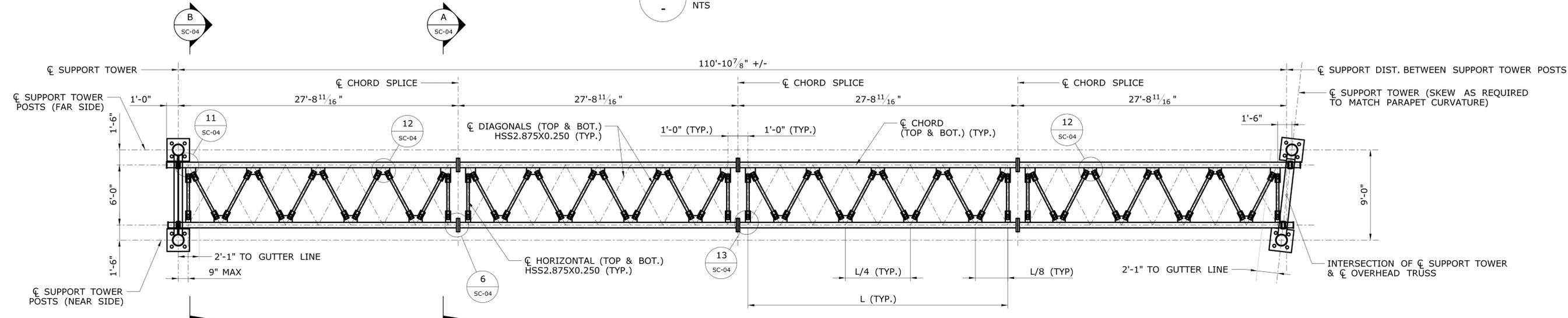


4 4 CHORD OHSS (BRIDGE MOUNTED) TYP. TRANSVERSE ELEVATION
-
STRUCTURES NO. 21218, 21217 & 21216
SCALE: 3/16" = 1'-0"

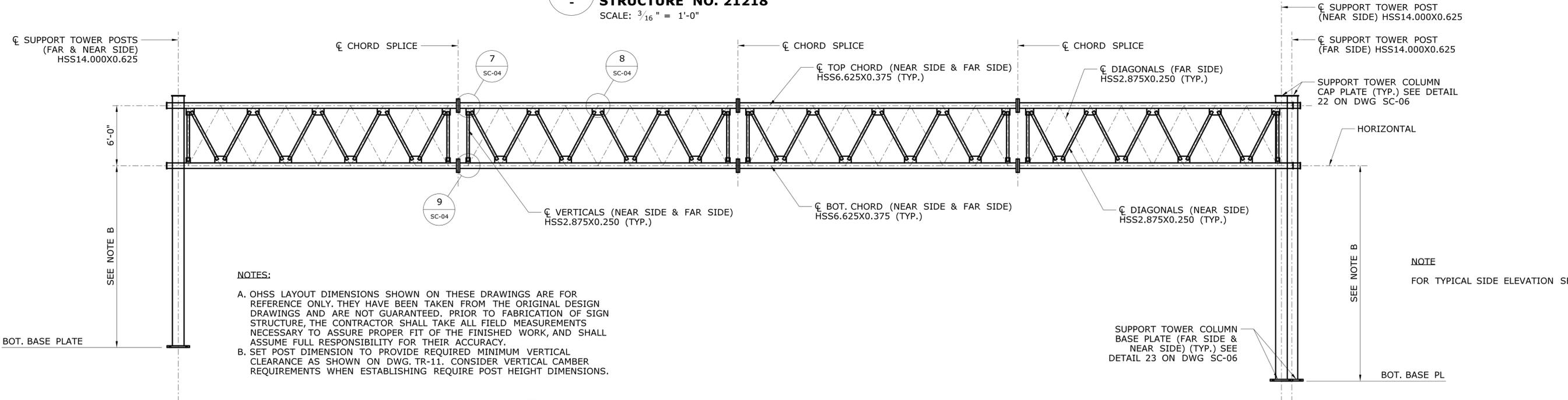
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: S. CIRILLO	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/BLOCK: SILVA ENGINEERING, LLC 90 QUARRY ST. WILLIMANTIC, CT 06226	PROJECT TITLE: I-95 SB & TR 817 BRIDGE NOS. 02514A & 02514B OVER THAMES RIVER, SR 635 RR, LOCAL ROADS & STATE PIER	TOWN: NEW LONDON / GROTON	PROJECT NO. 94-252
	CHECKED BY: J. SILVA					
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 7/12/2016	FILENAME: ..._SB_MSH_0094_0252_BR02514_4COHSS_General_Plan1.dgn		OVERHEAD SIGN STRUCTURE PLAN & ELEVATIONS I		SHEET NO. 06.02	



1 CAMBER DIAGRAM STRUCTURE NO. 21218
- NTS



2 4 CHORD OHSS (BRIDGE MOUNTED) PLAN
- SCALE: 3/16" = 1'-0"

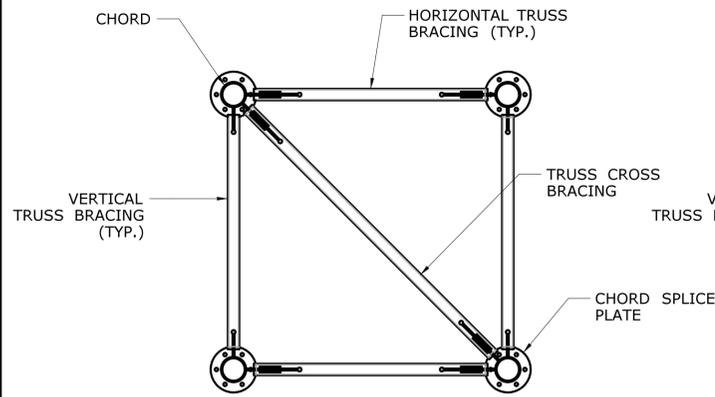


3 4 CHORD OHSS (BRIDGE MOUNTED) LONGITUDINAL ELEVATION
- SCALE: 3/16" = 1'-0"

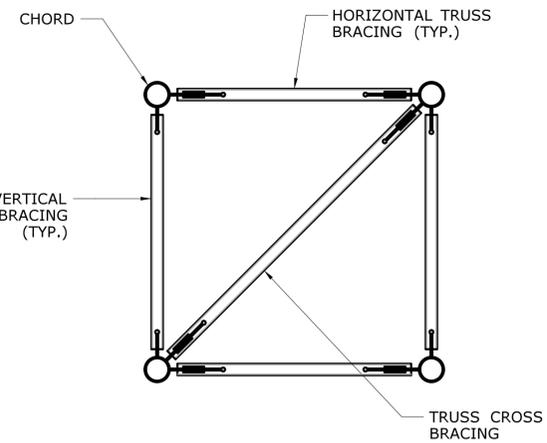
NOTES:
A. OHSS LAYOUT DIMENSIONS SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. PRIOR TO FABRICATION OF SIGN STRUCTURE, THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK, AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY.
B. SET POST DIMENSION TO PROVIDE REQUIRED MINIMUM VERTICAL CLEARANCE AS SHOWN ON DWG. TR-11. CONSIDER VERTICAL CAMBER REQUIREMENTS WHEN ESTABLISHING REQUIRE POST HEIGHT DIMENSIONS.

NOTE
FOR TYPICAL SIDE ELEVATION SEE DRAWING SC-02.

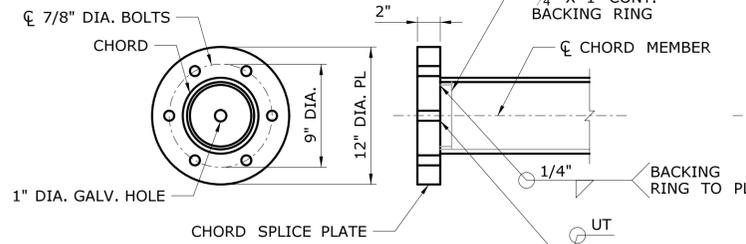
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: S. CIRILLO CHECKED BY: J. SILVA SCALE AS NOTED	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...SB_MSH_0094_0252_BR02514_4COHSS_General_Plan2.dgn	SIGNATURE/BLOCK: SILVA ENGINEERING, LLC 90 QUARRY ST. WILLIAMANTIC, CT 06226	PROJECT TITLE: I-95 SB & TR 817 BRIDGE NOS. 02514A & 02514B OVER THAMES RIVER, SR 635 RR, LOCAL ROADS & STATE PIER	TOWN: NEW LONDON / GROTON DRAWING TITLE: OVERHEAD SIGN STRUCTURE PLAN & ELEVATIONS II	PROJECT NO. 94-252 DRAWING NO. SC-03 SHEET NO. 06.03
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/12/2016			



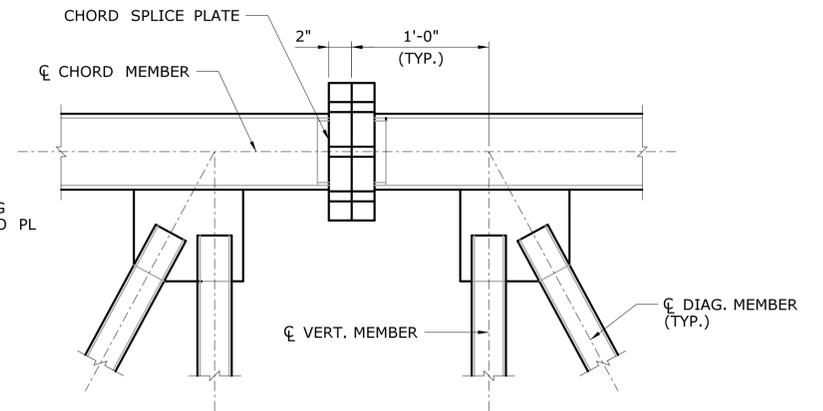
A SECTION
SC-02 & SC-03 SCALE: 1/2" = 1'-0"



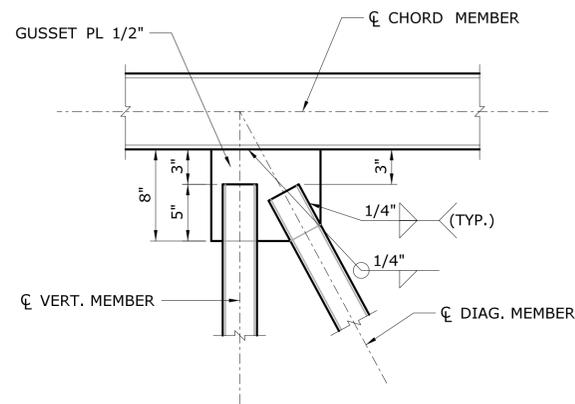
B SECTION
SC-02 & SC-03 SCALE: 1/2" = 1'-0"



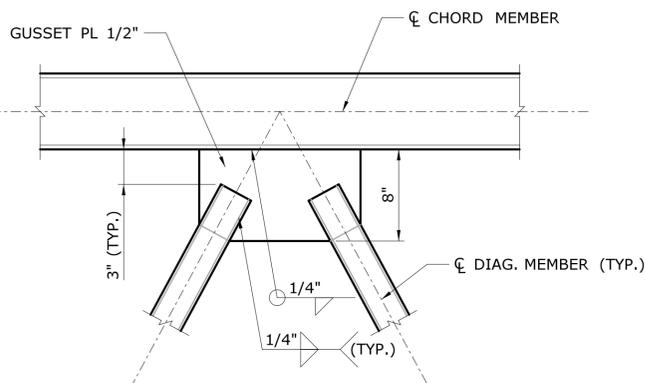
5 CHORD SPLICE PLATE
SC-02 & SC-03 SCALE: 1 1/2" = 1'-0"



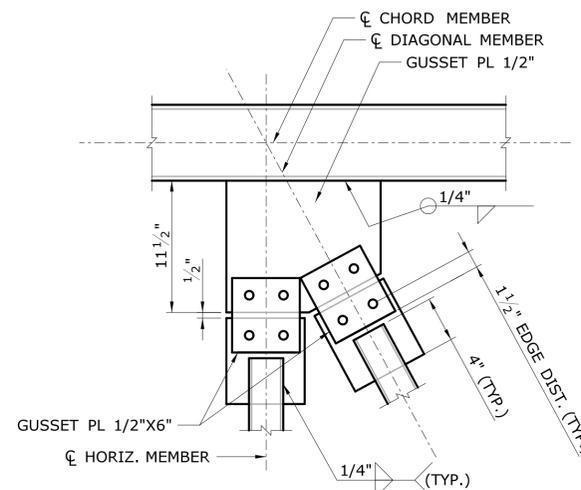
6 DETAIL
SC-02 & SC-03 SCALE: 1 1/2" = 1'-0"



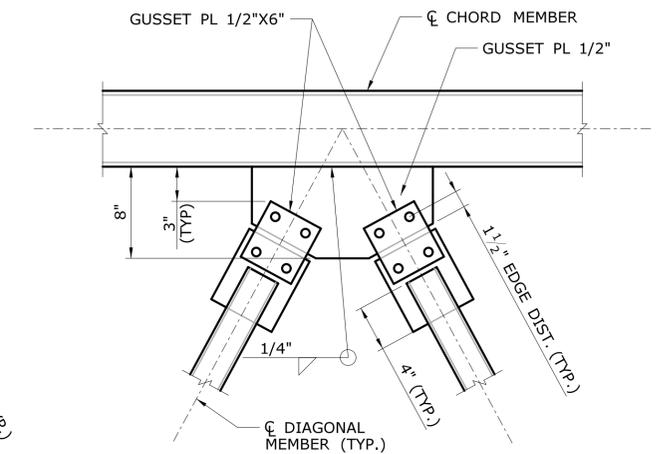
7 DETAIL
SC-02 & SC-03 SCALE: 1 1/2" = 1'-0"



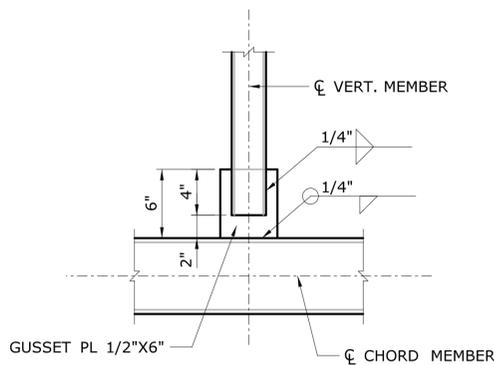
8 DETAIL
SC-02 & SC-03 SCALE: 1 1/2" = 1'-0"



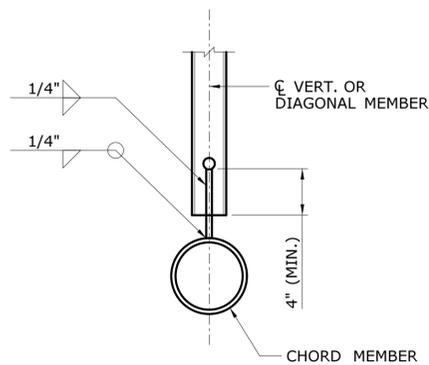
11 DETAIL
SC-02 & SC-03 SCALE: 1 1/2" = 1'-0"



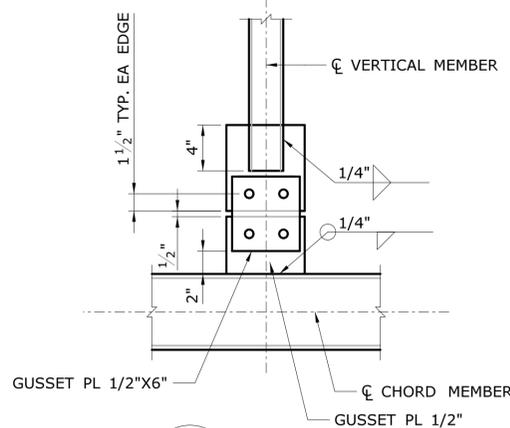
12 DETAIL
SC-02 & SC-03 SCALE: 1 1/2" = 1'-0"



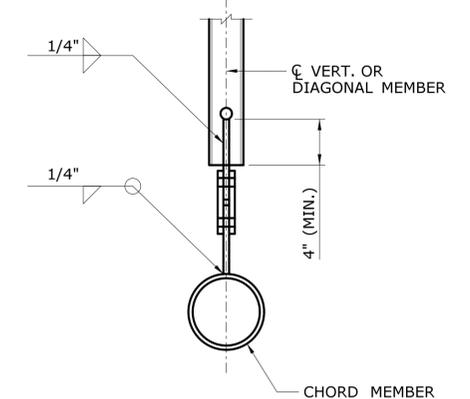
9 DETAIL
SC-02 & SC-03 SCALE: 1 1/2" = 1'-0"



10 TRANS SECTION CONN. TO CHORD
SC-02 & SC-03 SCALE: 1 1/2" = 1'-0"



13 DETAIL
SC-02 & SC-03 SCALE: 1 1/2" = 1'-0"



14 TRANS SECTION CONN. TO CHORD
SC-02 & SC-03 SCALE: 1 1/2" = 1'-0"

CONNECTION NOTE:

BOLTS AT OVERHEAD SIGN STRUCTURE TRUSS CONNECTIONS SHALL BE 7/8" DIAMETER WITH MINIMUM 1 1/2" EDGE DISTANCE AND 3" SPACING BETWEEN BOLTS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER:
S. CIRILLO
CHECKED BY:
J. SILVA
SCALE AS NOTED

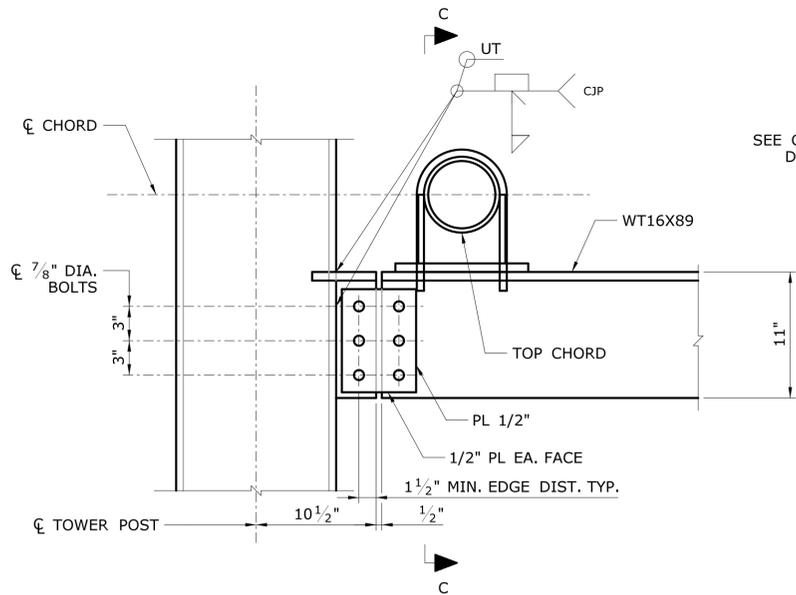
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
Plotted Date: 7/12/2016
Filename: ...SB_MSH_0094_0252_BR02514_4COHSS_Details1.dgn

SIGNATURE/BLOCK:
SILVA ENGINEERING, LLC
90 QUARRY ST.
WILLIAMANTIC, CT 06226

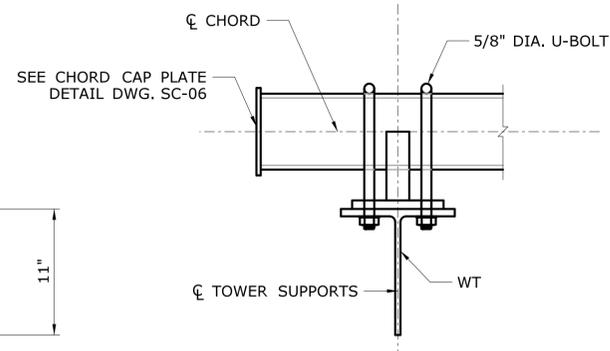
PROJECT TITLE:
I-95 SB & TR 817 BRIDGE NOS. 02514A & 02514B OVER THAMES RIVER, SR 635 RR, LOCAL ROADS & STATE PIER

TOWN:
NEW LONDON / GROTON
DRAWING TITLE:
OVERHEAD SIGN STRUCTURE DETAILS I

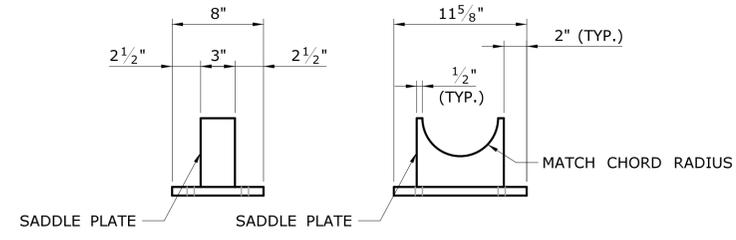
PROJECT NO.
94-252
DRAWING NO.
SC-04
SHEET NO.
06.04



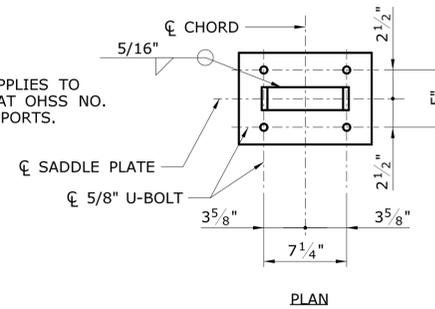
15 **DETAIL**
SC-02 SCALE: 1 1/2" = 1'-0"



C-C SECTION
SC-05 SCALE: 1 1/2" = 1'-0"

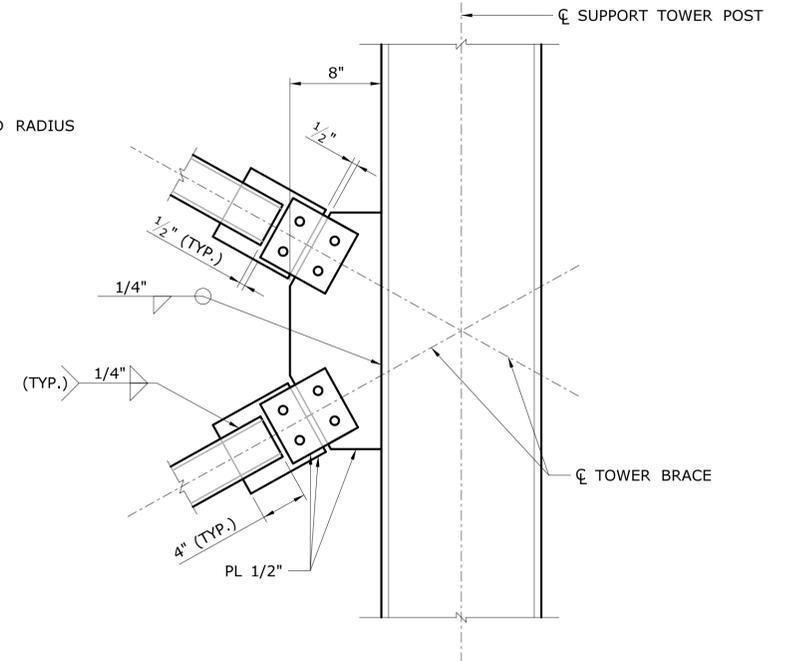


SADDLE PL NOTE:
 SIMILAR DETAIL APPLIES TO
 SKEWED SADDLE AT OHSS NO.
 21218 NORTH SUPPORTS.

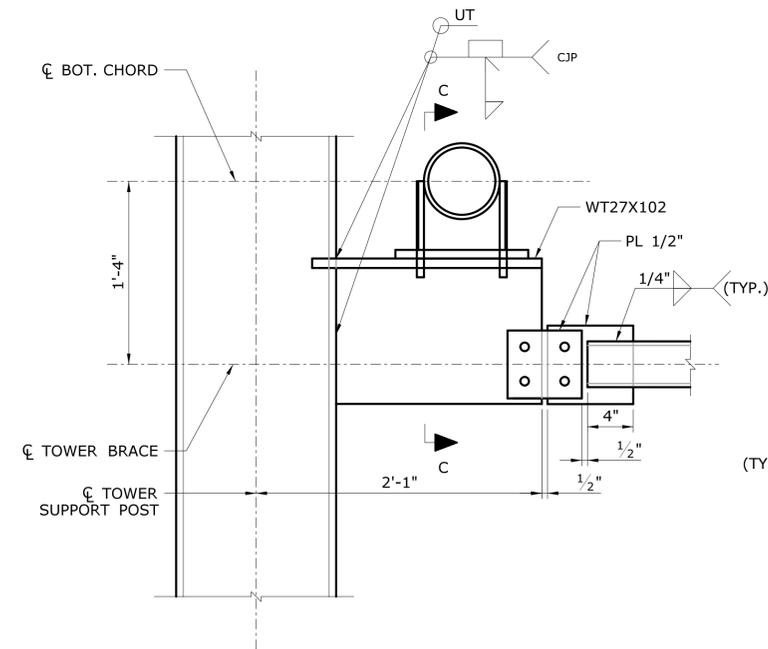


PLAN

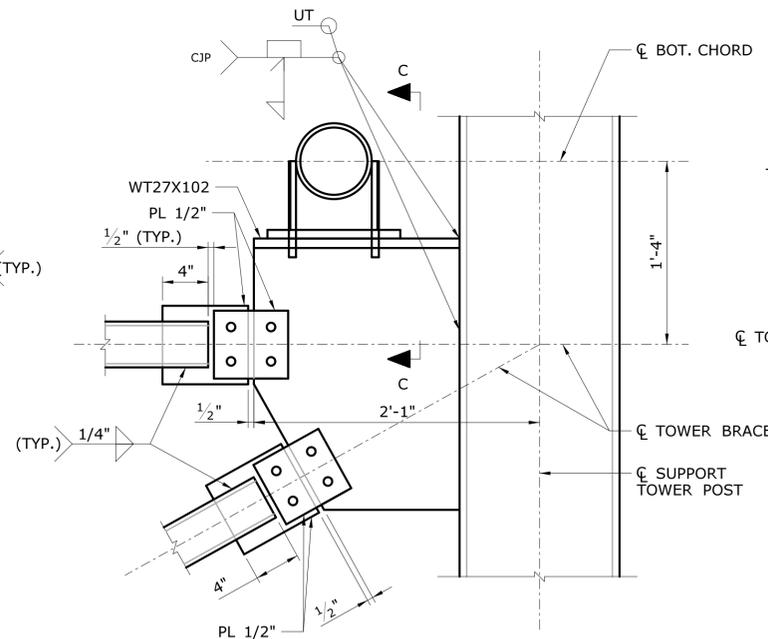
21 **SADDLE PLATE**
SC-04 SCALE: 1 1/2" = 1'-0"



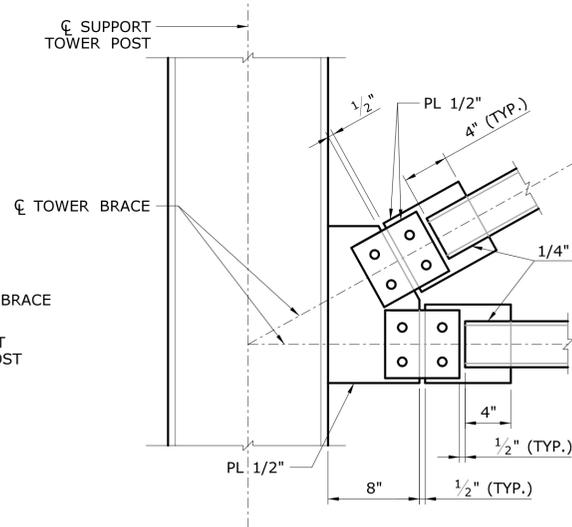
18 **DETAIL**
SC-02 SCALE: 1 1/2" = 1'-0"



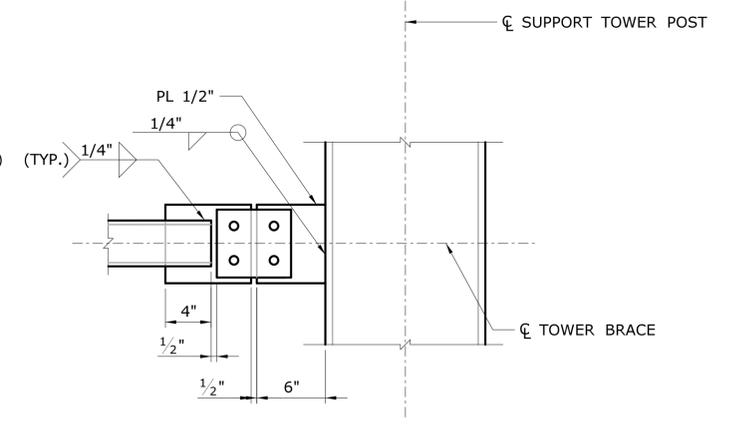
16 **DETAIL**
SC-02 SCALE: 1 1/2" = 1'-0"



17 **DETAIL**
SC-02 SCALE: 1 1/2" = 1'-0"



19 **DETAIL**
SC-02 SCALE: 1 1/2" = 1'-0"



20 **DETAIL**
SC-02 SCALE: 1 1/2" = 1'-0"

CONNECTION NOTE:

BOLTS AT ALL SUPPORT TOWER CONNECTIONS SHALL BE 1" DIAMETER WITH MINIMUM 1 3/4" EDGE DISTANCE AND 3 1/2" SPACING BETWEEN BOLTS EXCEPT WHERE NOTED OTHERWISE.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/12/2016

DESIGNER/DRAFTER:
S. CIRILLO
 CHECKED BY:
J. SILVA
 SCALE AS NOTED

STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION

Signature/Block: [Signature]

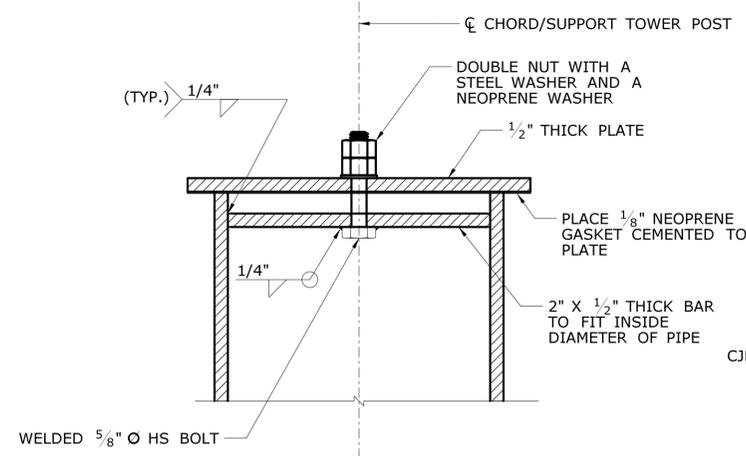
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SIGNATURE/BLOCK:
 SILVA ENGINEERING, LLC
 90 QUARRY ST.
 WILLIMANTIC, CT 06226

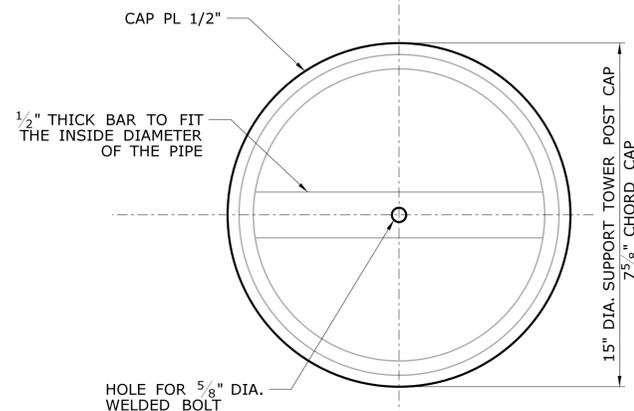
PROJECT TITLE:
I-95 SB & TR 817 BRIDGE NOS. 02514A & 02514B OVER THAMES RIVER, SR 635 RR, LOCAL ROADS & STATE PIER

TOWN:
NEW LONDON / GROTON
 DRAWING TITLE:
OVERHEAD SIGN STRUCTURE DETAILS II

PROJECT NO.
94-252
 DRAWING NO.
SC-05
 SHEET NO.
06.05

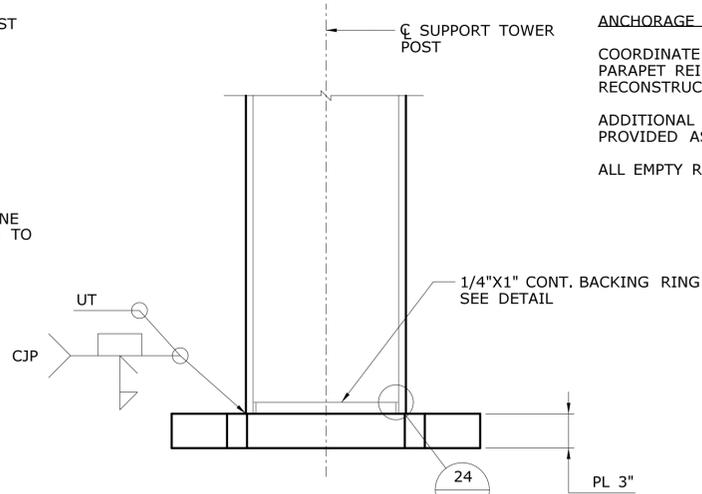


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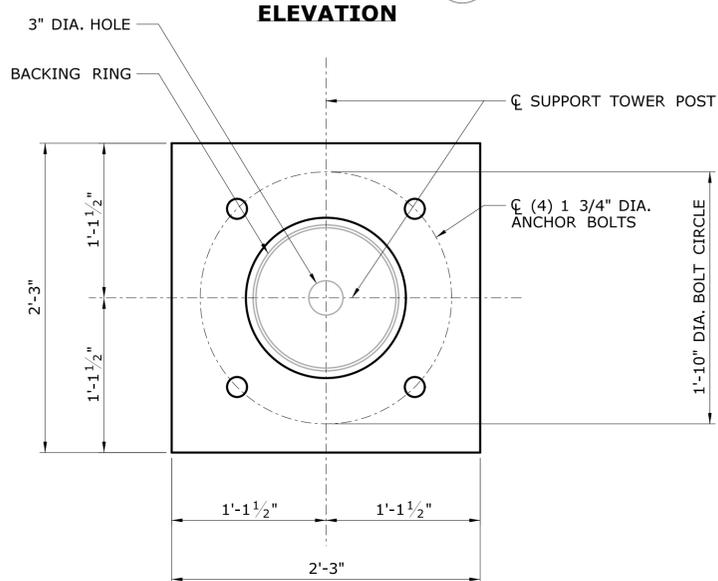


PLAN

22 CHORD/TOWER SUPPORT COL. POST CAP. PL
NTS

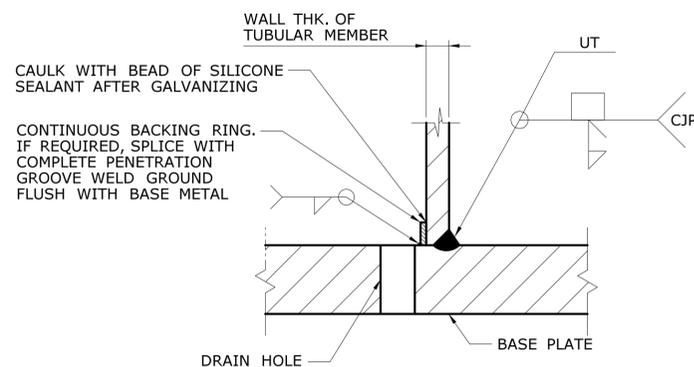


ELEVATION



PLAN

23 SUPPORT TOWER POST COL. BASE PL
SCALE: 1 1/2" = 1'-0"



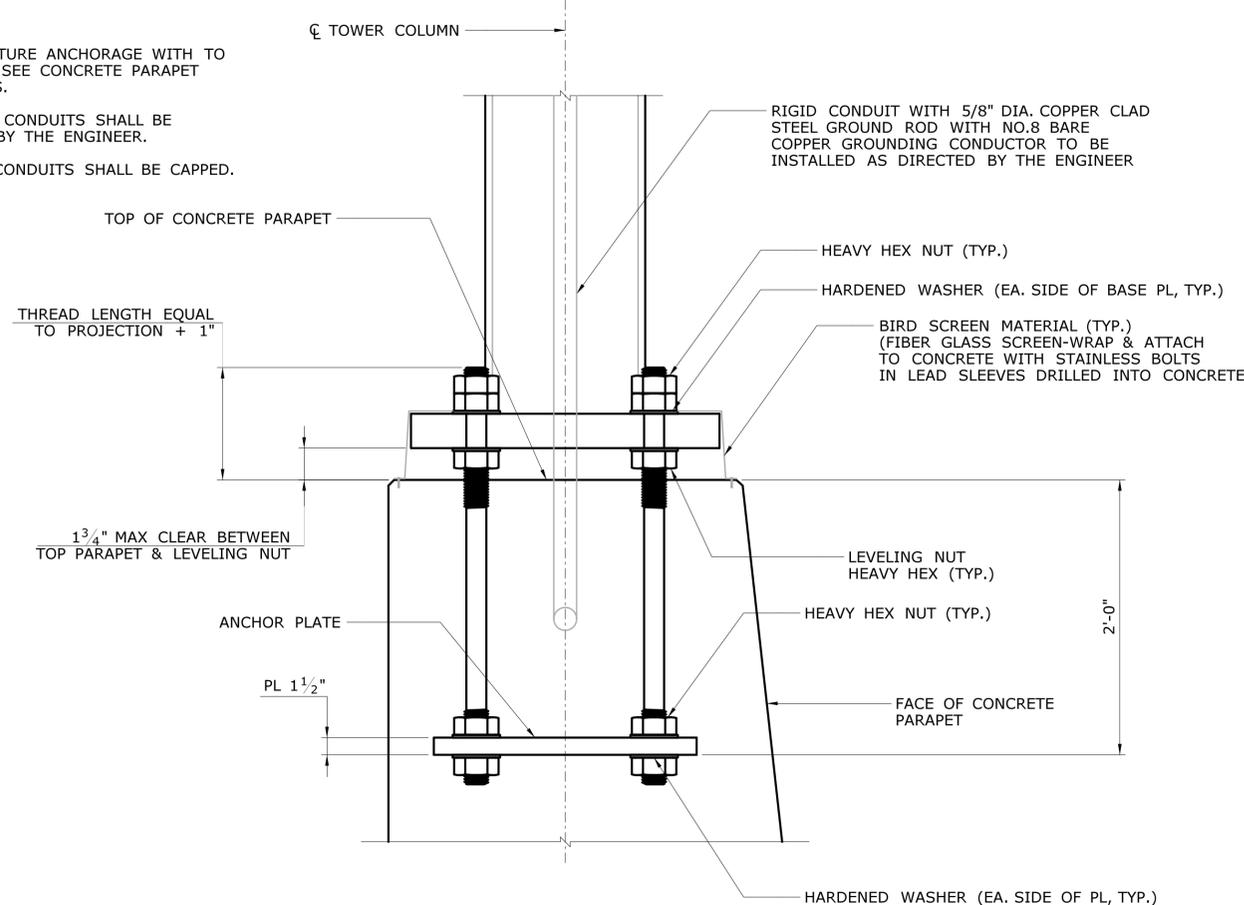
24 BACKING RING DETAIL
SC-05 SCALE: 1 1/2" = 1'-0"

ANCHORAGE NOTES:

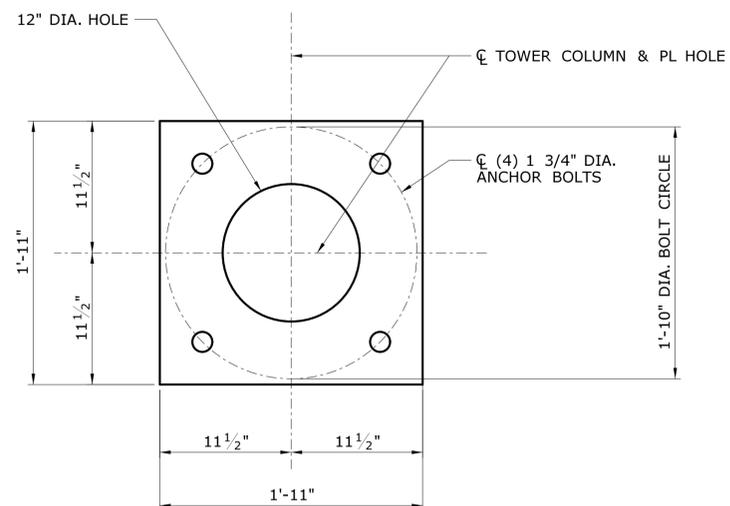
COORDINATE SIGN STRUCTURE ANCHORAGE WITH TO PARAPET REINFORCEMENT, SEE CONCRETE PARAPET RECONSTRUCTION DETAILS.

ADDITIONAL RIGID METAL CONDUITS SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER.

ALL EMPTY RIGID METAL CONDUITS SHALL BE CAPPED.



25 TOWER SUPPORT ANCHORAGE
SC-05 SCALE: 1 1/2" = 1'-0"



26 TOWER SUPPORT ANCHOR PL
SC-05 SCALE: 1 1/2" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/12/2016

DESIGNER/DRAFTER:
S. CIRILLO
CHECKED BY:
J. SILVA
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Signature/Block: [Signature]

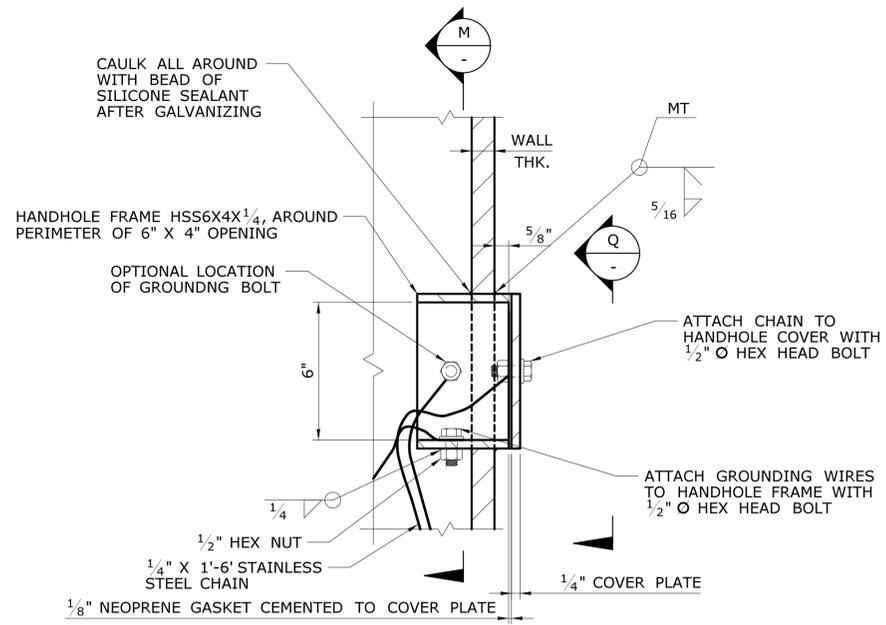
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SILVA ENGINEERING, LLC
90 QUARRY ST.
WILLIMANTIC, CT 06226

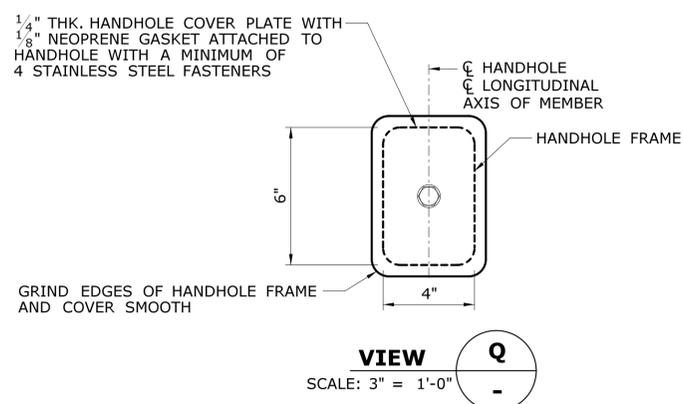
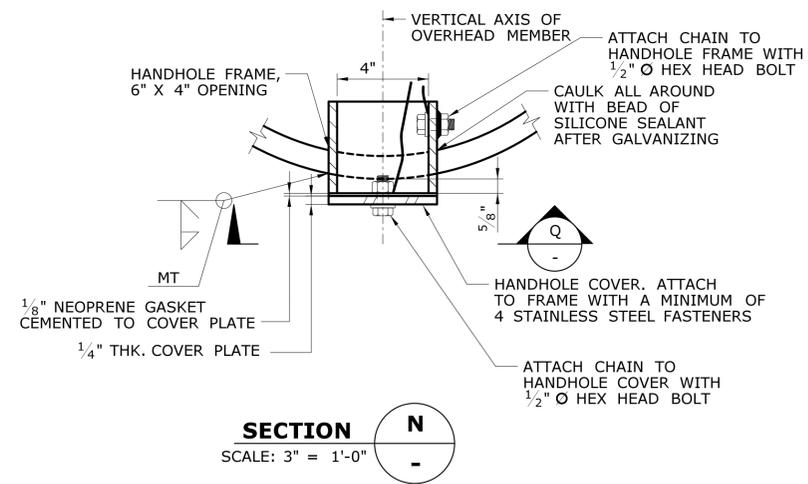
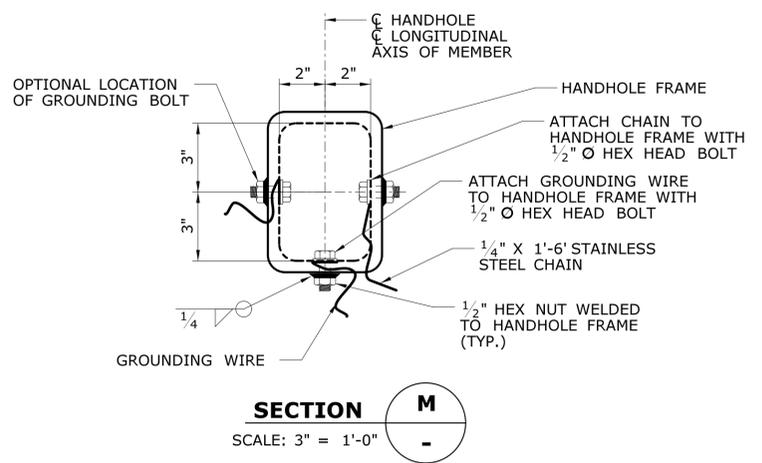
PROJECT TITLE:
I-95 SB & TR 817 BRIDGE NOS. 02514A & 02514B OVER THAMES RIVER, SR 635 RR, LOCAL ROADS & STATE PIER

TOWN:
NEW LONDON / GROTON
DRAWING TITLE:
OVERHEAD SIGN STRUCTURE DETAILS III

PROJECT NO.
94-252
DRAWING NO.
SC-06
SHEET NO.
06.06



DETAIL L
SCALE: 3" = 1'-0"



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 7/12/2016

DESIGNER/DRAFTER:
S. CIRILLO

CHECKED BY:
J. SILVA

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STATE OF CONNECTICUT
REGISTERED PROFESSIONAL ENGINEER

FILENAME: ..._SB_MSH_0094_0252_BR02514_4COHSS_Details4.dgn

SIGNATURE/BLOCK:

SILVA ENGINEERING, LLC
90 QUARRY ST.
WILLIMANTIC, CT 06226

PROJECT TITLE:
I-95 SB & TR 817 BRIDGE NOS. 02514A & 02514B OVER THAMES RIVER, SR 635 RR, LOCAL ROADS & STATE PIER

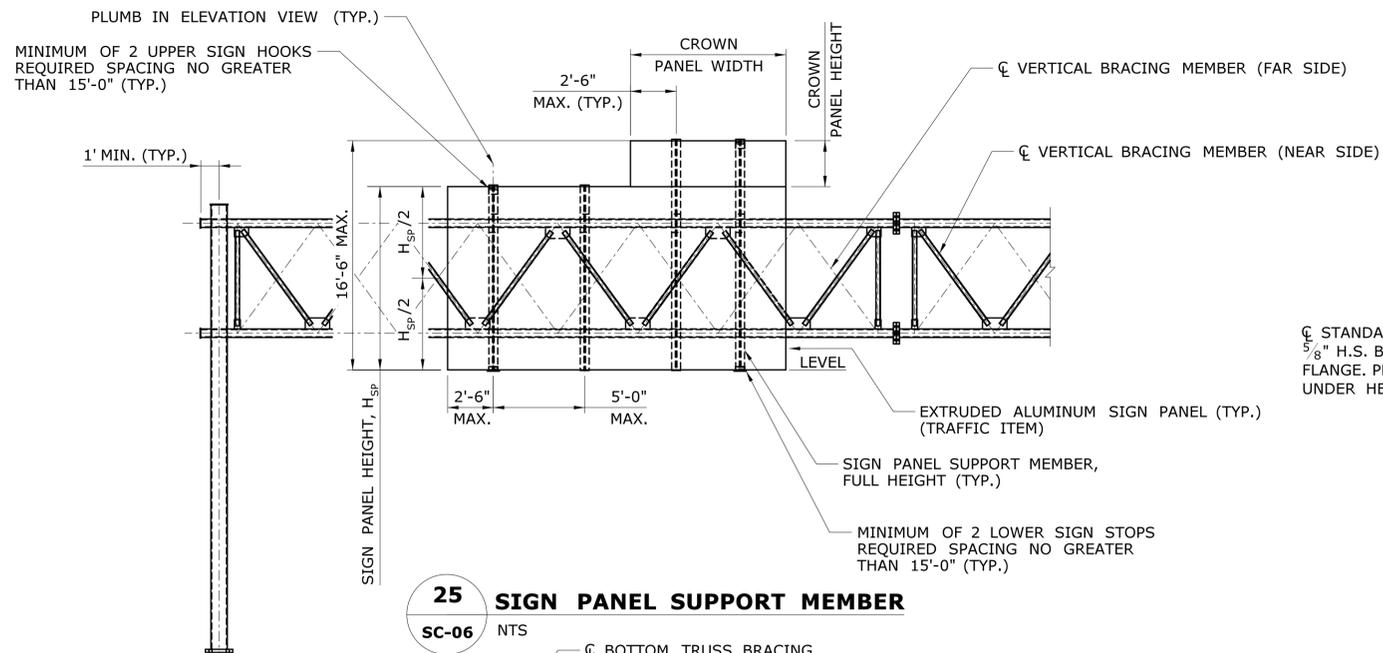
TOWN:
NEW LONDON / GROTON

DRAWING TITLE:
OVERHEAD SIGN STRUCTURE DETAILS IV

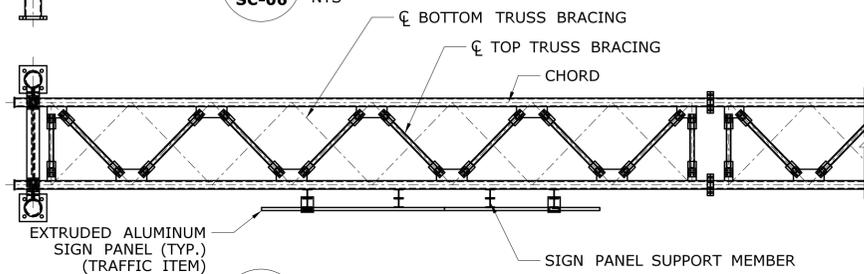
PROJECT NO.
94-252

DRAWING NO.
SC-07

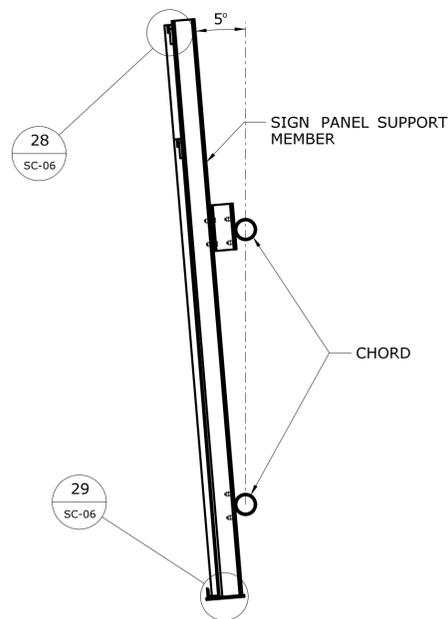
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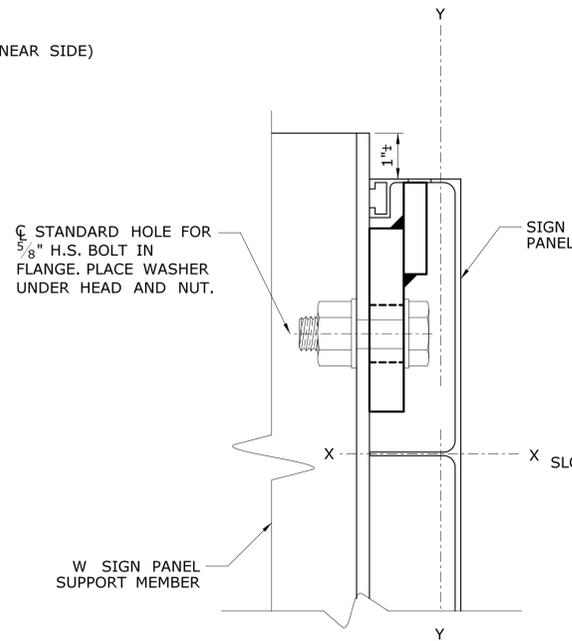
25 SIGN PANEL SUPPORT MEMBER
SC-06 NTS



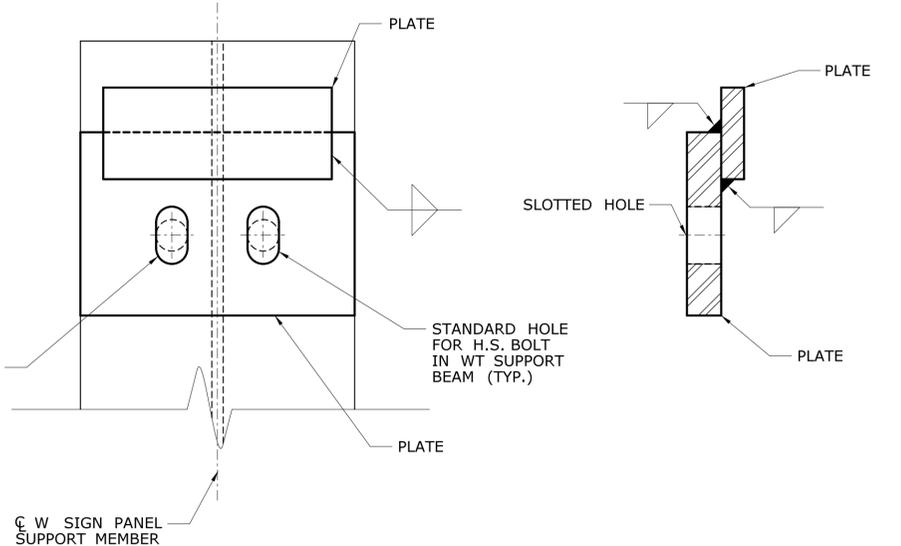
26 SIGN PANEL SUPPORT MEMBER
SC-06 NTS



27 SIGN PANEL SUPPORT MEMBER
SC-06 NTS



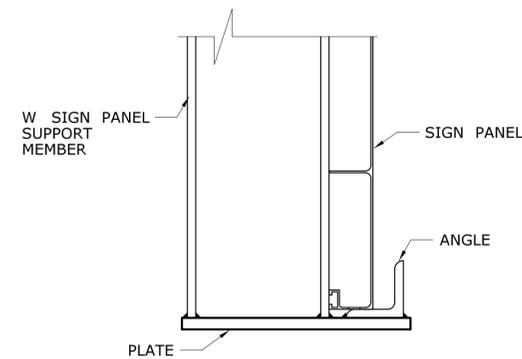
SECTION



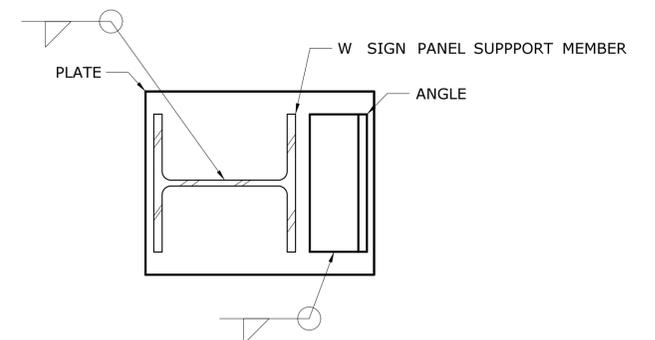
ELEVATION

PL DETAIL

28 UPPER SIGN PANEL HOOK DETAILS
SC-06 SCALE: 3" = 1'-0"



SECTION



PLAN

29 LOWER SIGN PANEL STOP DETAILS
SC-06 SCALE: 3" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/12/2016

DESIGNER/DRAFTER:
S. CIRILLO

CHECKED BY:
J. SILVA

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Signature/Block:
SILVA ENGINEERING, LLC
90 QUARRY ST.
WILLIMANTIC, CT 06226

PROJECT TITLE:
I-95 SB & TR 817 BRIDGE NOS. 02514A & 02514B OVER THAMES RIVER, SR 635 RR, LOCAL ROADS & STATE PIER

TOWN:
NEW LONDON / GROTON

DRAWING TITLE:
OVERHEAD SIGN STRUCTURE DETAILS V

PROJECT NO.
94-252

DRAWING NO.
SC-08

SHEET NO.
06.08



Filename: ..._SB_MSH_0094_0252_BR02514_4COHSS_Details5.dgn