



**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**
Frankfort, Kentucky 40622
www.transportation.ky.gov/

Matthew G. Bevin
Governor

Greg Thomas
Secretary

September 27, 2016

CALL NO. 313
CONTRACT ID NO. 162913
ADDENDUM # 1

Subject: Carroll County, FE02 021 0042 B00043N
Letting September 30, 2016

- (1) Revised - Set of Plans
- (2) Revised - Special Notes - Pages 9-11 of 62
- (3) Revised - Traffic Control - Pages 13-14 of 62

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

Plan revisions are available at <http://www.lynnimaging.com/kytransportation/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in cursive script that reads "Rachel Mills".

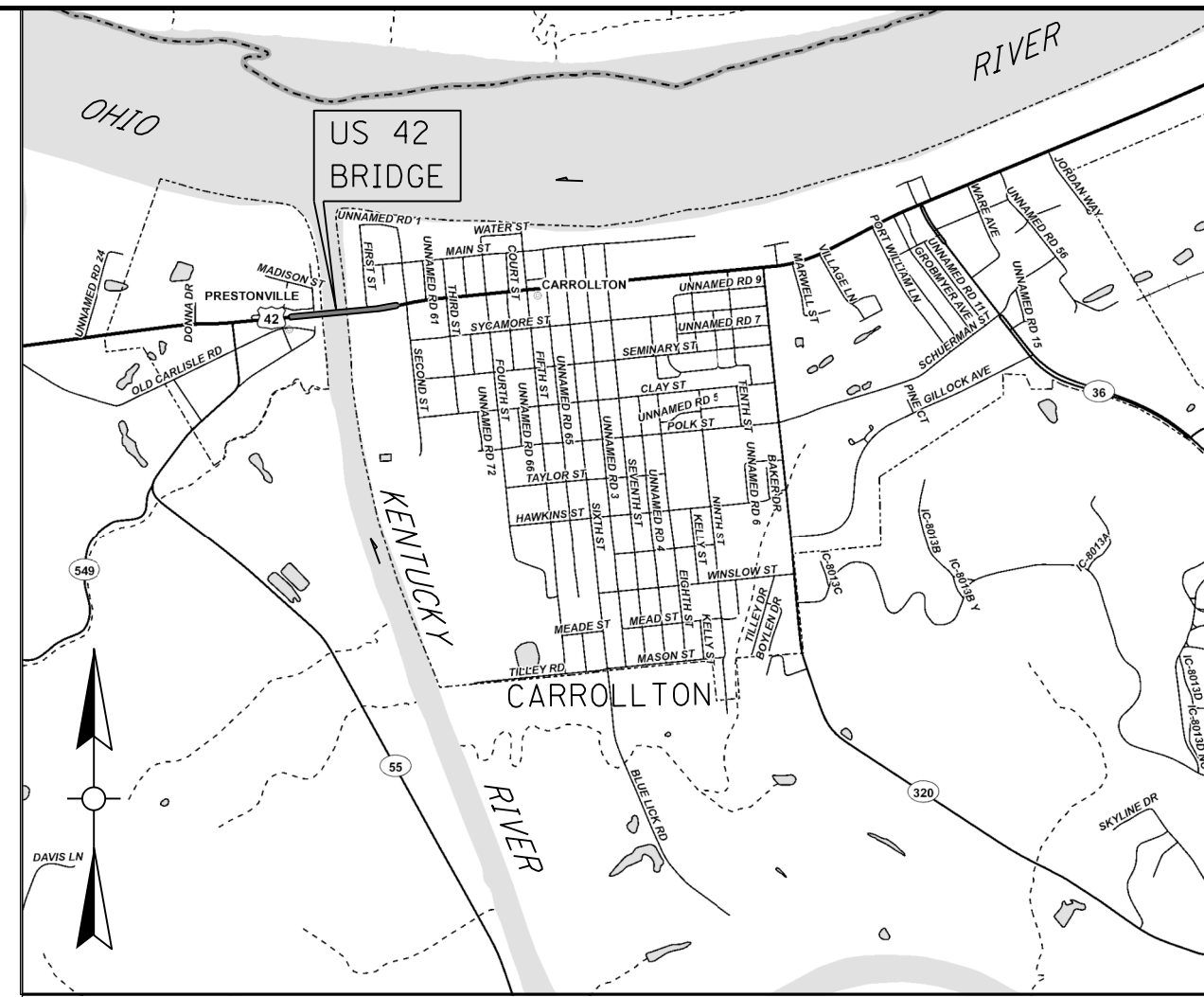
Rachel Mills, P.E.
Director
Division of Construction Procurement

RM:ks
Enclosures



An Equal Opportunity Employer M/F/D

FILE NAME: V:\1785\ACTIVE\178565012\STRUCTURAL\301.320 - US 42 OVER KY RIVER\REHAB PLANS\SUBMITTAL\CADD DELIVERABLES\27643_001.DGN
 USER: aiformer
 DATE PLOTTED: September 26, 2016
 E-SHEET NAME:
 MicroStation v8.11.7.443



LAYOUT MAP
NOT TO SCALE

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

CARROLL COUNTY

US 42 OVER KENTUCKY RIVER

BRIDGE 021B00043N

SUPERSTRUCTURE STEEL REHABILITATION

INDEX OF SHEETS

S1	TITLE, INDEX, & BRIDGE ELEVATION
S2	GENERAL NOTES
S3	RETROFIT GUSSET PLATES L6-L6' (OUTBOARD)
S4	RETROFIT GUSSET PLATES L6-L6' (OUTBOARD-ALT)
S5	RETROFIT GUSSET PLATES L6-L6' (INBOARD)
S6	RETROFIT GUSSET PLATES L6-L6' (INBOARD-ALT)
S7	RETROFIT GUSSET PLATES L10-L10'
S8	RETROFIT EXTERIOR STRINGERS

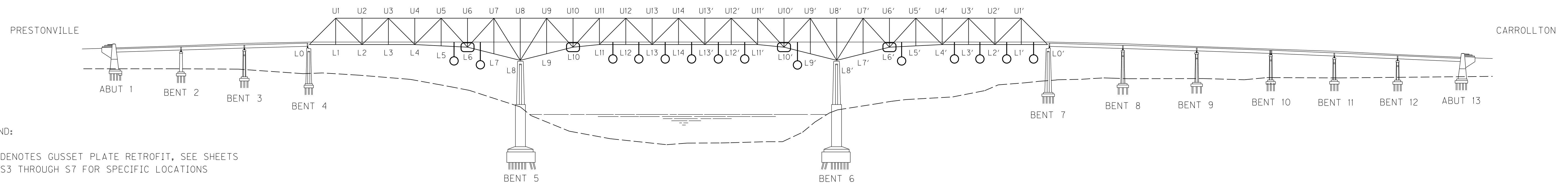
SPECIAL NOTES

- SPECIAL NOTE FOR SURFACE PREPARATION & PAINT APPLICATION
- SPECIAL NOTE FOR PAINT
- SPECIAL NOTE FOR TRAFFIC CONTROL ON BRIDGE REPAIR CONTRACTS

SPECIAL PROVISIONS

SPECIFICATIONS

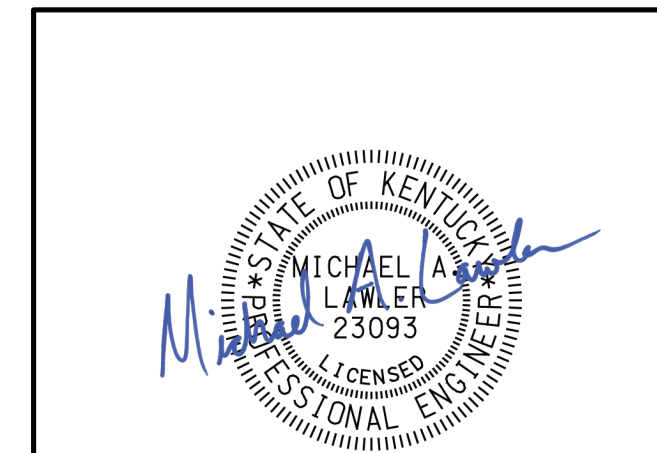
- 2012 STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
- 7TH EDITION AASHTO LRFD DESIGN SPECIFICATIONS 2014 WITH INTERIMS



- LEGEND:
- DENOTES GUSSET PLATE RETROFIT, SEE SHEETS S3 THROUGH S7 FOR SPECIFIC LOCATIONS
 - DENOTES EXTERIOR STRINGER RETROFIT, SEE SHEET S8 FOR SPECIFIC LOCATIONS

GENERAL ELEVATION

ESTIMATE OF QUANTITIES						
BID ITEM CODE	02568	02569	02650	24091EC	24092EC	24421EC
BID ITEM	MOBILIZATION	DEMOBILIZATION	MAINTAIN AND CONTROL TRAFFIC	GUSSET PLATE REPAIR A PLATES L6 / L6'	GUSSET PLATE REPAIR B PLATES L10 / L10'	STRINGER RETROFIT
UNIT	LS	LS	LS	EACH	EACH	EACH
BRIDGE TOTAL	1	1	1	2	4	22



REVISION	DATE
DATE: SEPTEMBER 26, 2016	CHECKED BY: M. LAWLER
DESIGNED BY: A. FARMER	M. LAWLER
DETAILED BY: A. FARMER	M. LAWLER

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

COUNTY
CARROLL

ROUTE **US 42** CROSSING **KENTUCKY RIVER**

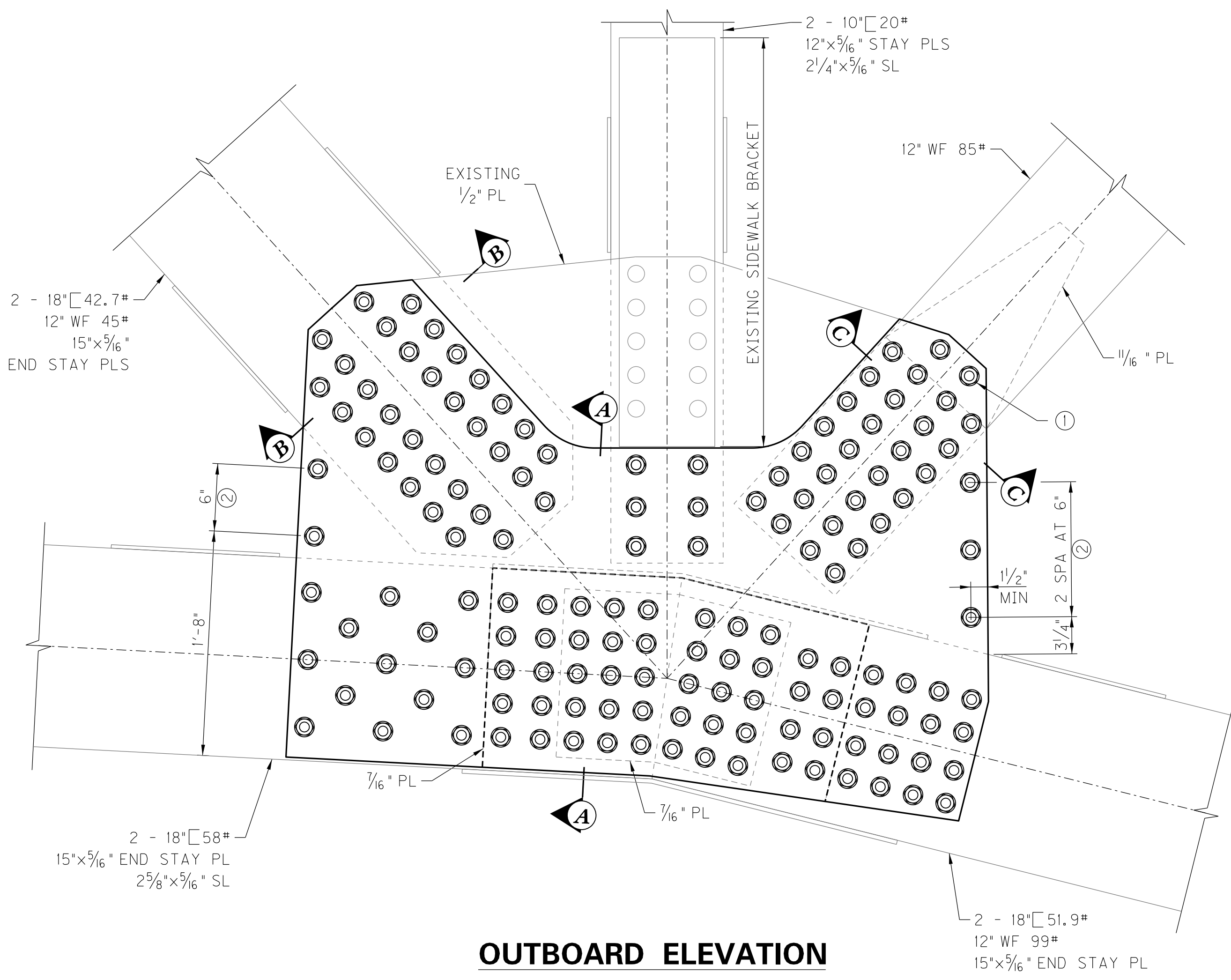
TITLE, INDEX, & BRIDGE ELEVATION

PREPARED BY: **Stantec**

SHEET NO.
S1
DRAWING NO.
27643

ITEM NUMBER

FILE NAME: V:\1785\ACTIVE\178565012\STRUCTURAL\301.320 - US 42 OVER KY RIVER\REHAB PLANS\SUBMITTAL\CADD DELIVERABLES\27643_003.DGN
 USER: ofarmer
 DATE PLOTTED: September 26, 2016
 E-SHEET NAME:
 MicroStation v8.11.7.443



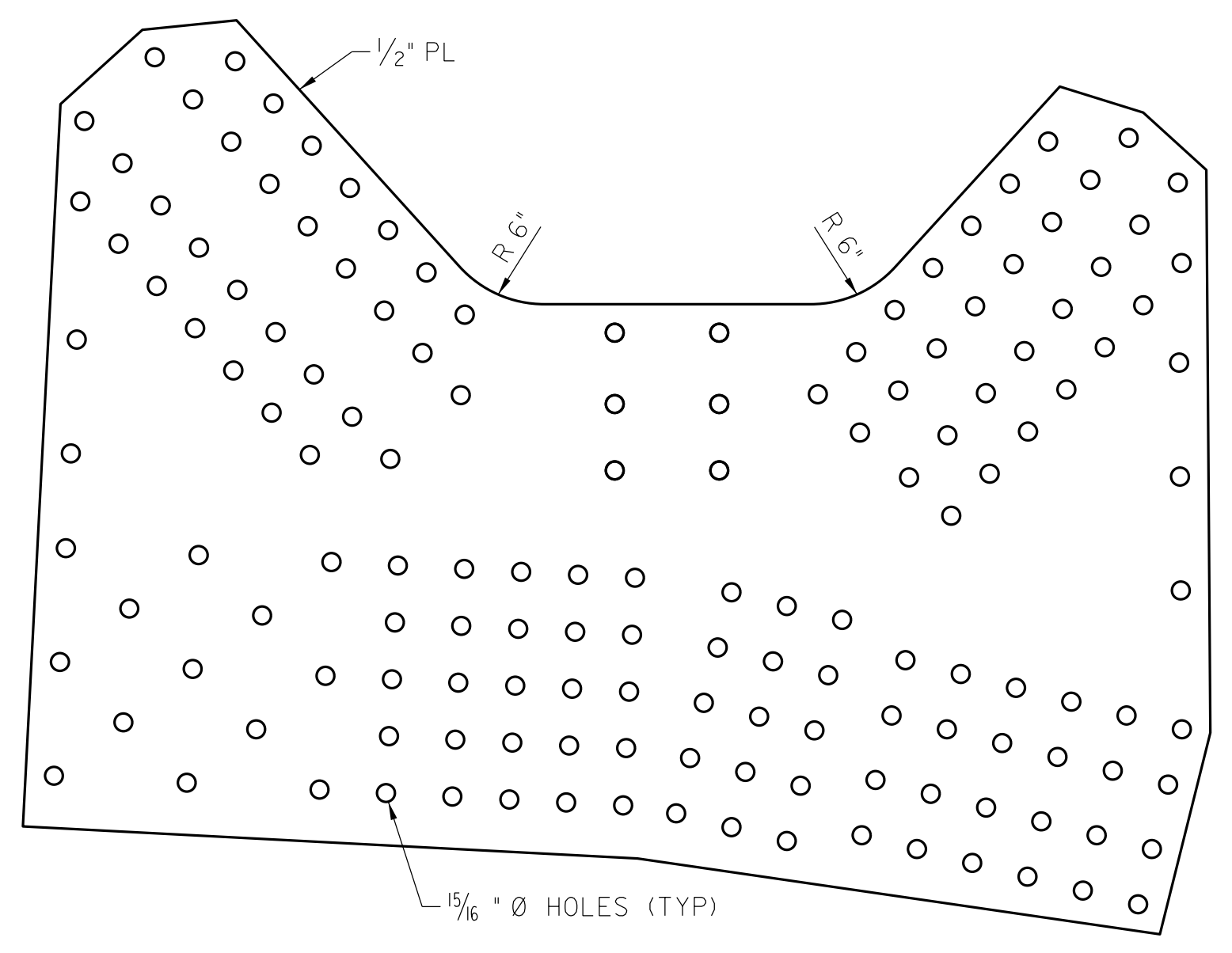
OUTBOARD ELEVATION
 L6 - UPSTREAM TRUSS ONLY
 L6' - UPSTREAM TRUSS ONLY

NOTATIONS:

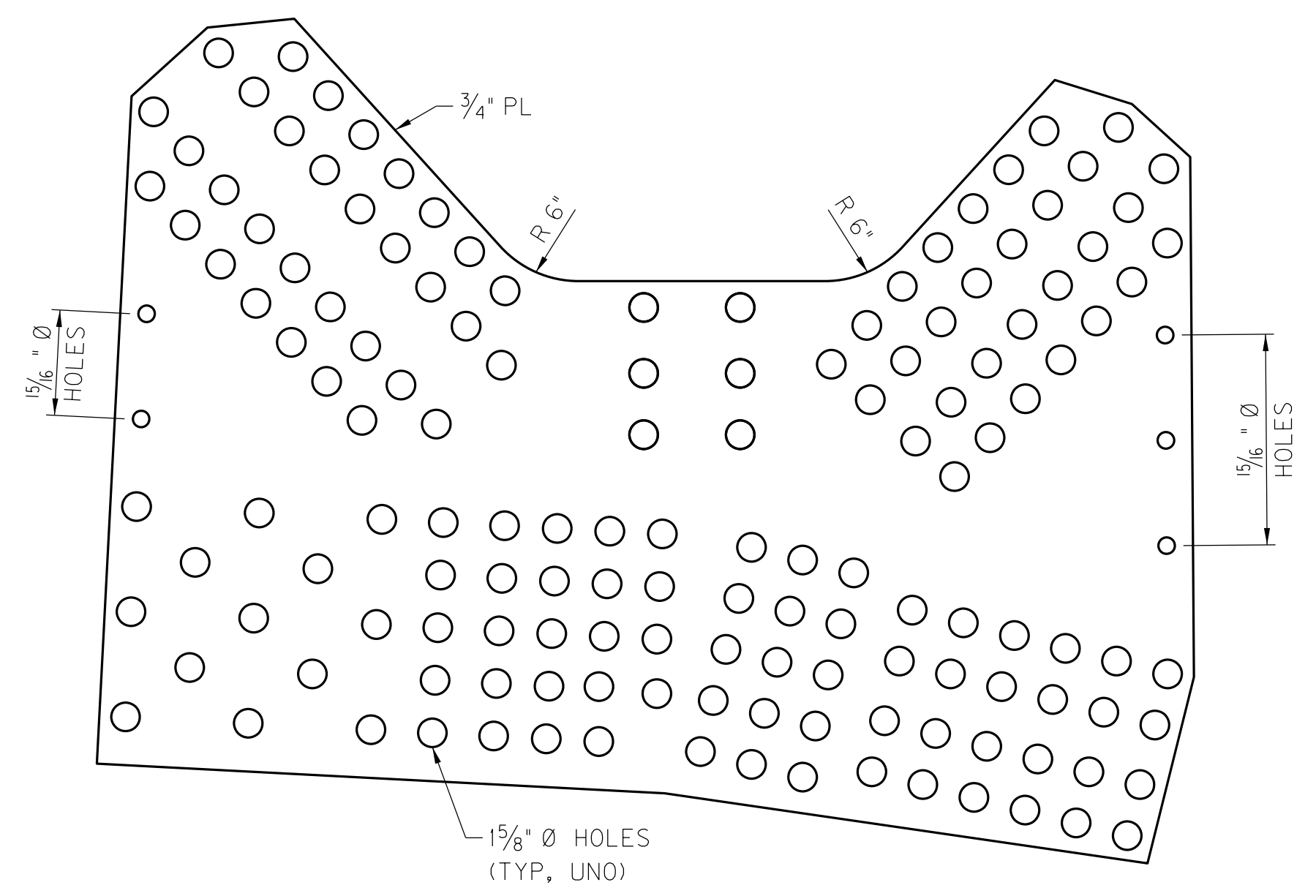
- ① REMOVE RIVETS & REPLACE WITH 7/8" Ø HS BOLTS, TYPICAL, UNO
- ② INSTALL ADDITIONAL 7/8" Ø HS BOLTS ALONG THE EDGE OF GUSSET PLATE

CONSTRUCTION SEQUENCE:

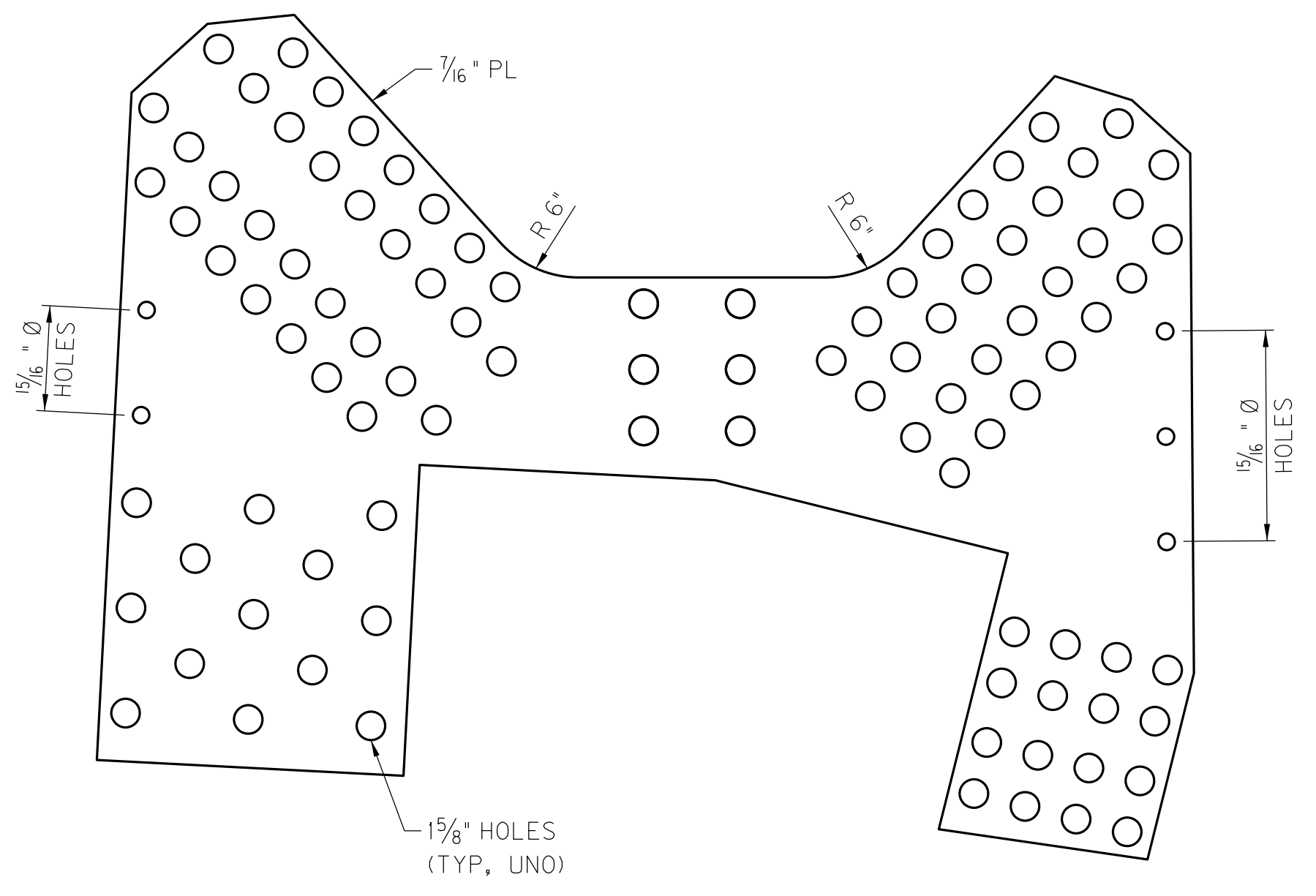
1. POSITION NEW FILL, SHIM AND GUSSET PLATES AND TEMPORARILY SECURE TO THE EXISTING GUSSET PLATE PRIOR TO BEGINNING RIVET REPLACEMENT.
2. INSTALL ADDITIONAL STITCHING BOLTS ALONG THE FREE EDGES OF THE GUSSET.
3. AT RIVET REPLACEMENT LOCATIONS, MECHANICALLY REMOVE RIVETS AND REPLACE WITH EXTRA LONG 7/8" Ø HS BOLTS, NUTS AND WASHERS. BOLTS SHALL BE OF SUFFICIENT LENGTH TO PROPERLY ENGAGE THE NEW FILL, SHIM AND GUSSET PLATES. ONLY REPLACE ONE RIVET AT A TIME.



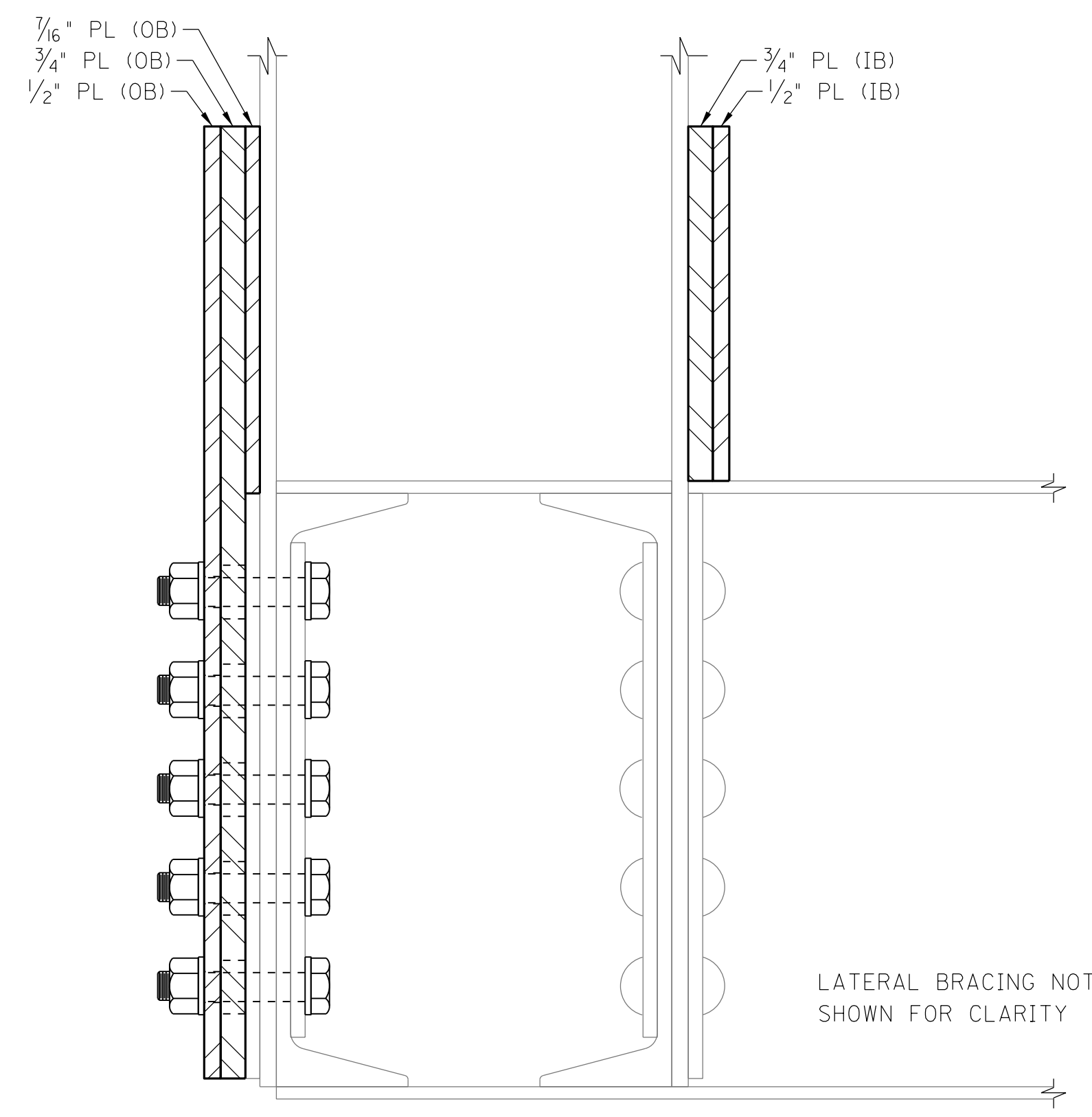
GUSSET PLATE



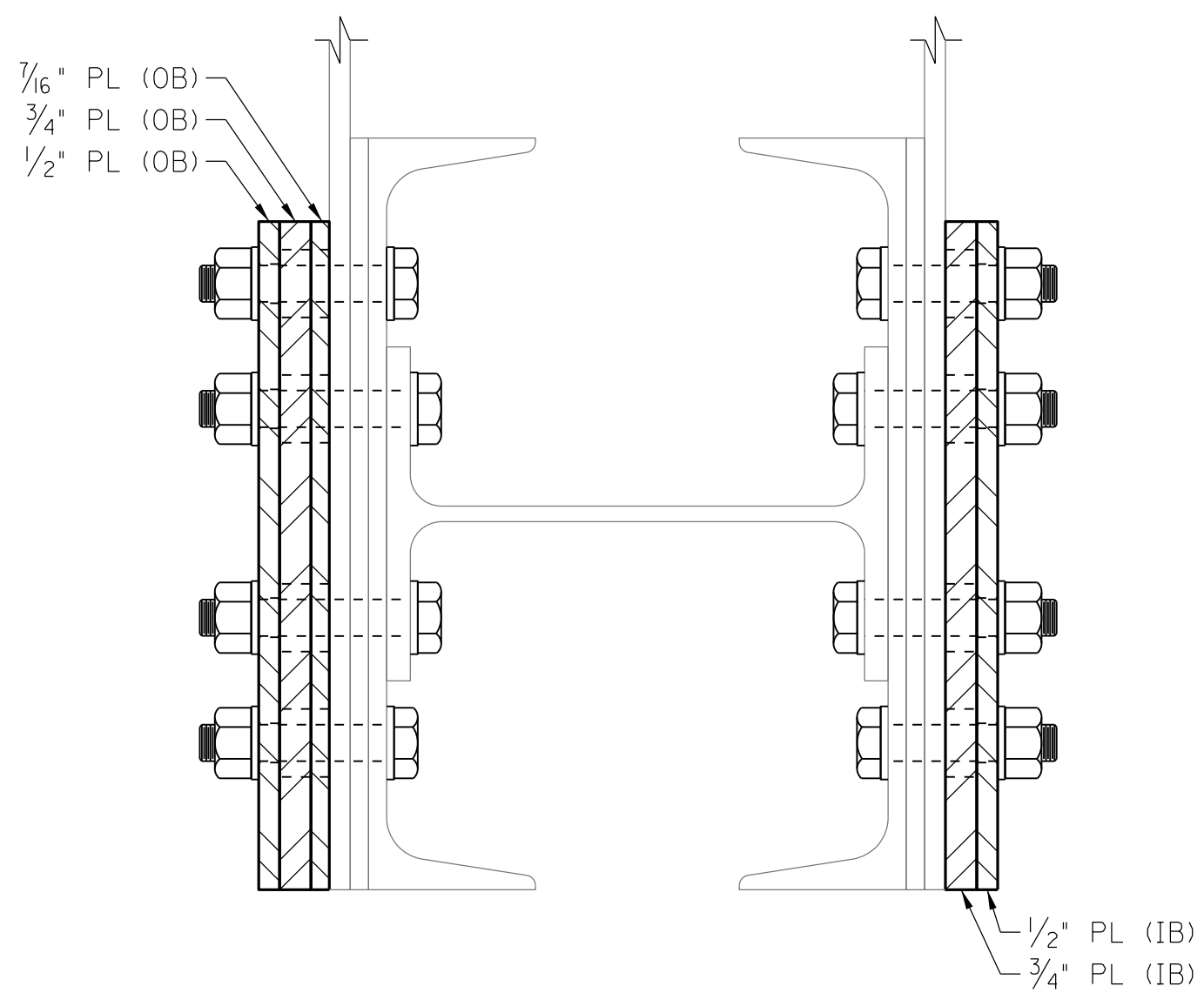
SHIM PLATE



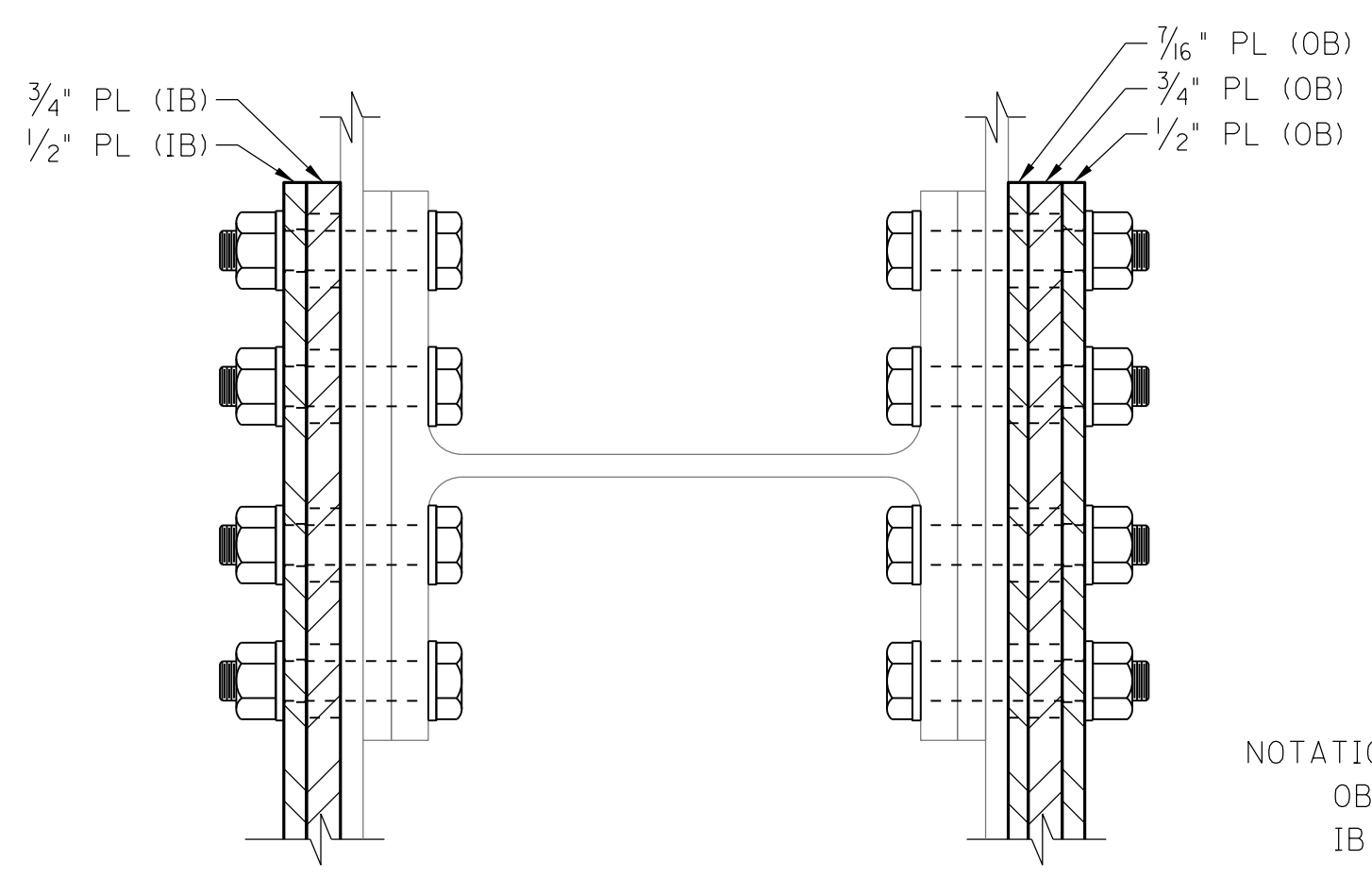
FILL PLATE



SECTION A-A



SECTION B-B



SECTION C-C

NOTATIONS:
 OB - DENOTES OUTBOARD
 IB - DENOTES INBOARD

(OUTBOARD)
 ITEM NUMBER

REVISION	DATE
DATE: SEPTEMBER 26, 2016	CHECKED BY: C. GREENWELL
DESIGNED BY: T. PERKINS	A. FARMER
DETAILED BY: C. HUTCHINSON	

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

COUNTY
CARROLL

ROUTE **US 42** CROSSING **KENTUCKY RIVER**

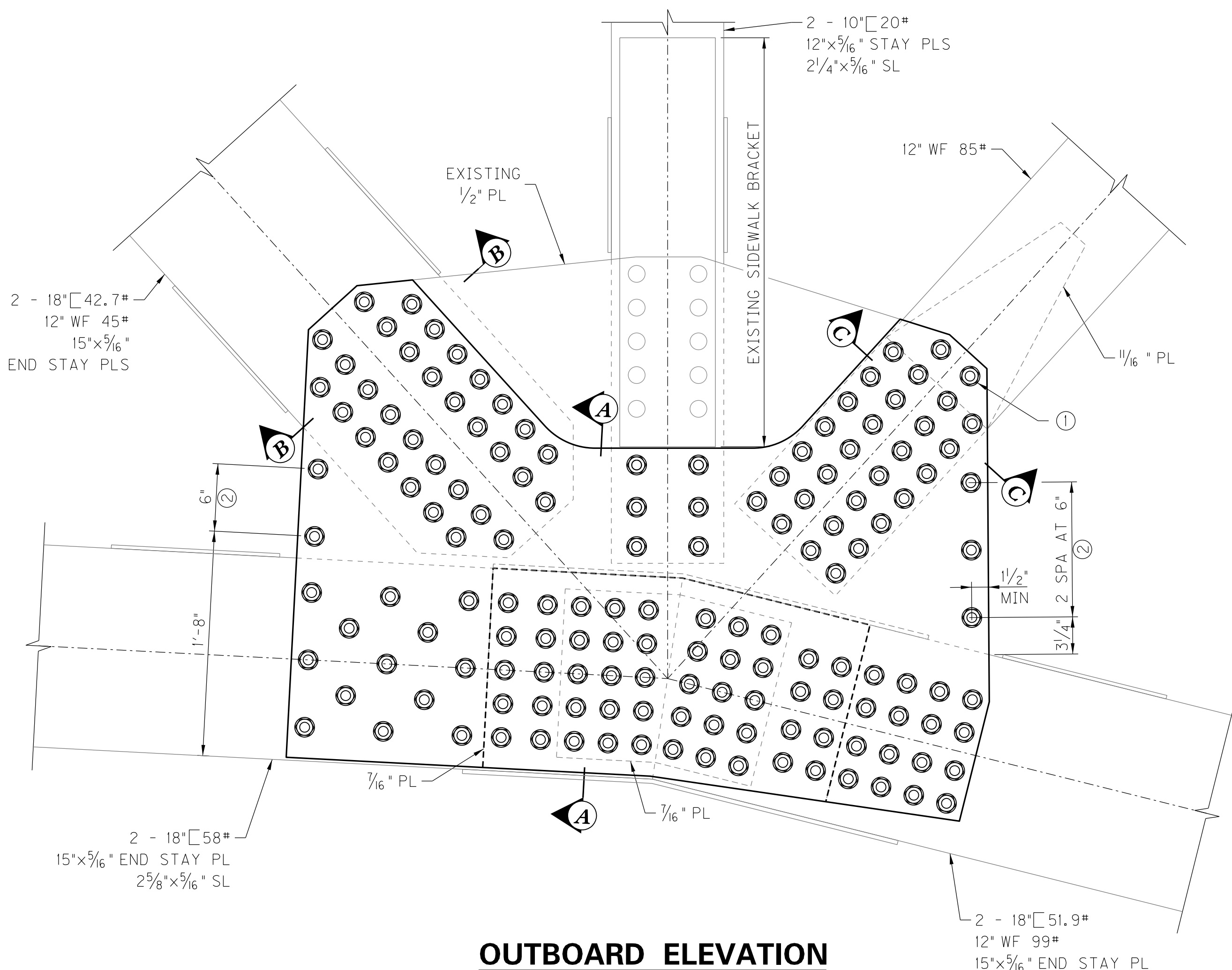
RETROFIT GUSSET PLATES L6-L6'

PREPARED BY

Stantec

SHEET NO.
S3
 DRAWING NO.
27643

FILE NAME: V:\1785\ACTIVE\178565012\STRUCTURAL\301.320 - US 42 OVER KY RIVER\REHAB PLANS\SUBMITTAL\CADD DELIVERABLES\27643_004.DGN
 USER: ofarmer
 DATE PLOTTED: September 26, 2016
 E-SHEET NAME:
 MicroStation v8.11.7.443



OUTBOARD ELEVATION

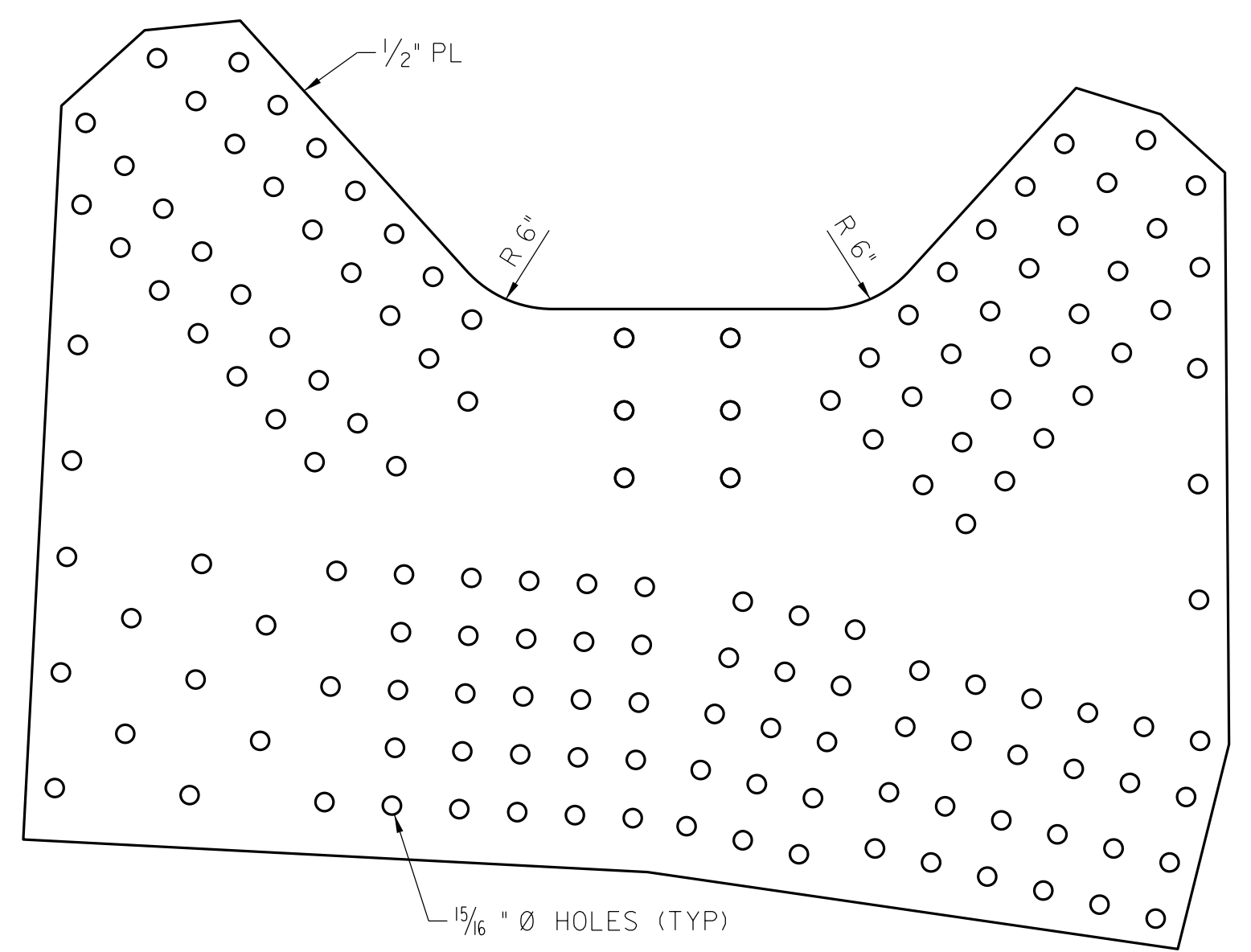
L6 - UPSTREAM TRUSS ONLY
 L6' - UPSTREAM TRUSS ONLY

NOTATIONS:

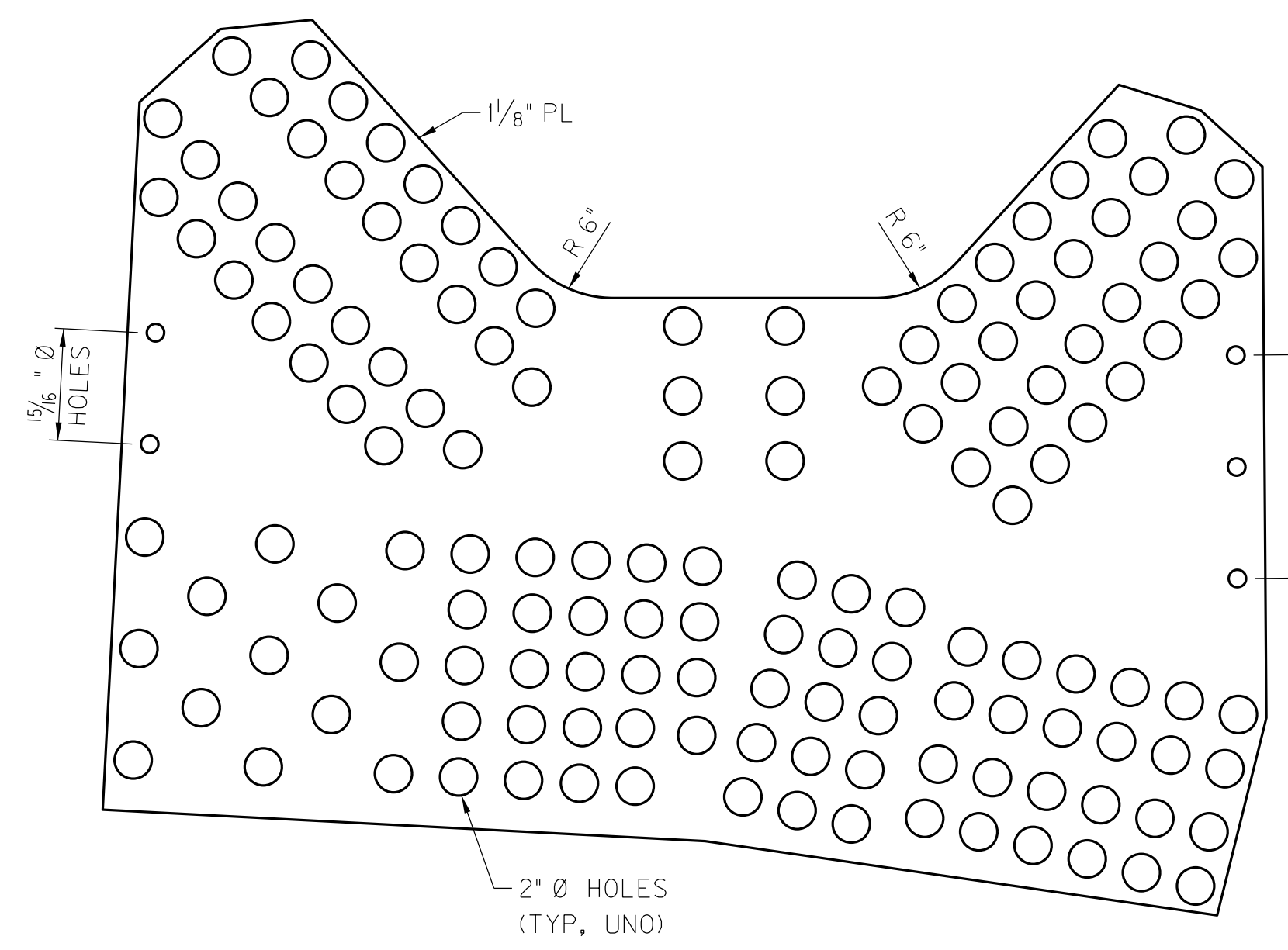
- ① REMOVE RIVETS & REPLACE WITH 7/8" Ø HS BOLTS, TYPICAL, UNO
- ② INSTALL ADDITIONAL 7/8" Ø HS BOLTS ALONG THE EDGE OF GUSSET PLATE

CONSTRUCTION SEQUENCE:

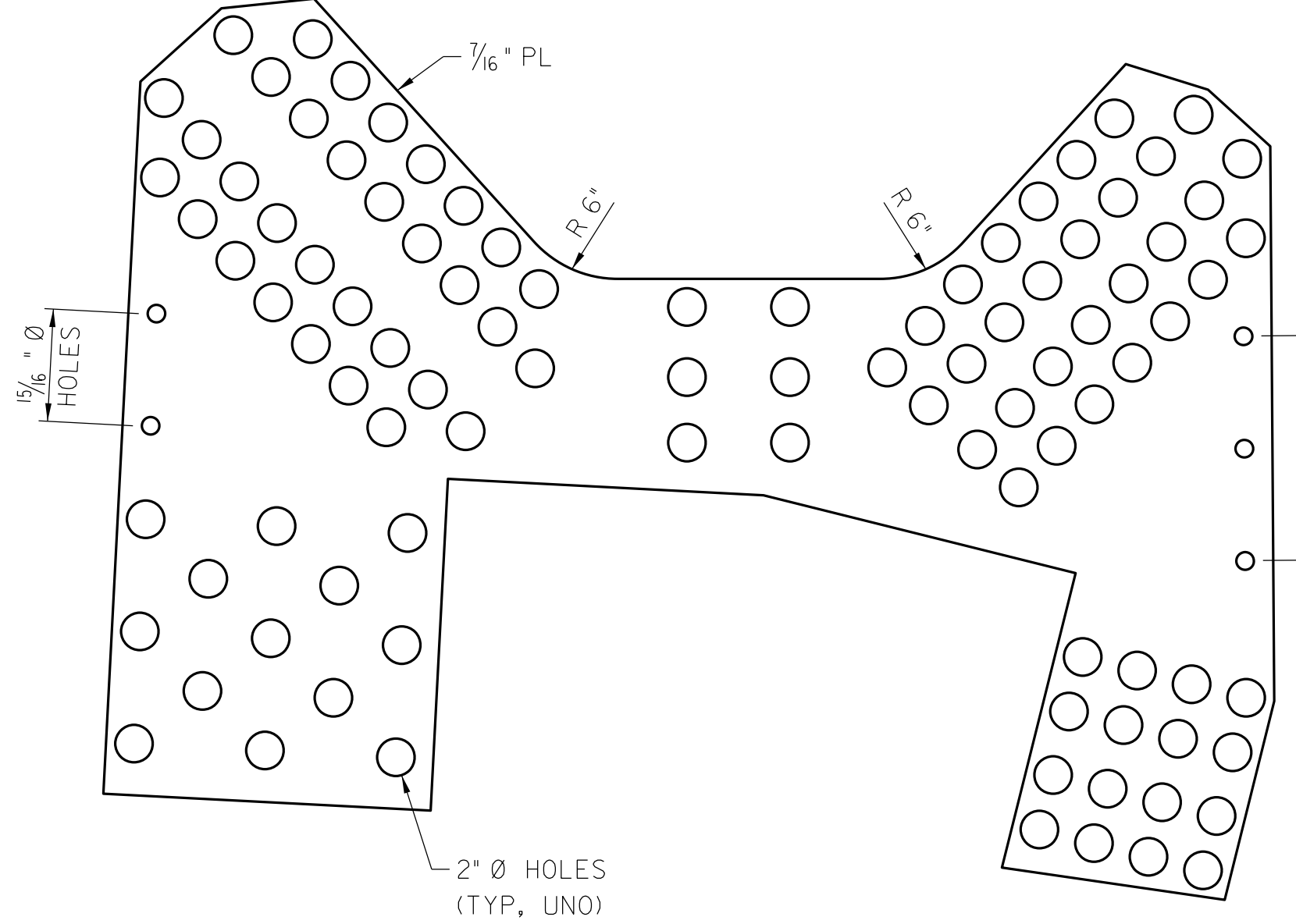
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2. INSTALL NEW FILL, SHIM AND GUSSET PLATES AND SECURE WITH ADDITIONAL HS NUTS AND WASHERS.
3. INSTALL ADDITIONAL STITCHING BOLTS ALONG THE FREE EDGES OF THE GUSSET.



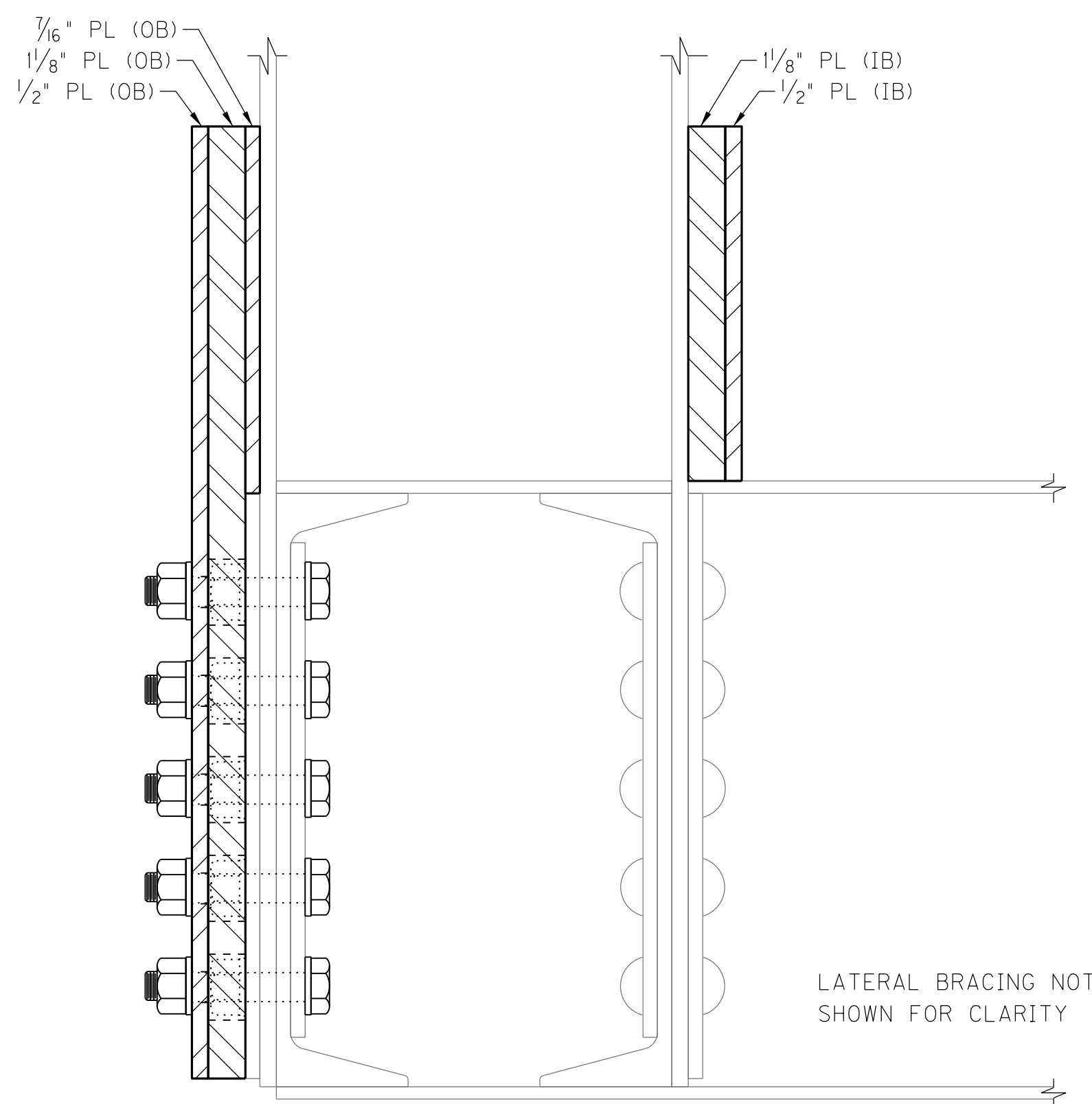
GUSSET PLATE



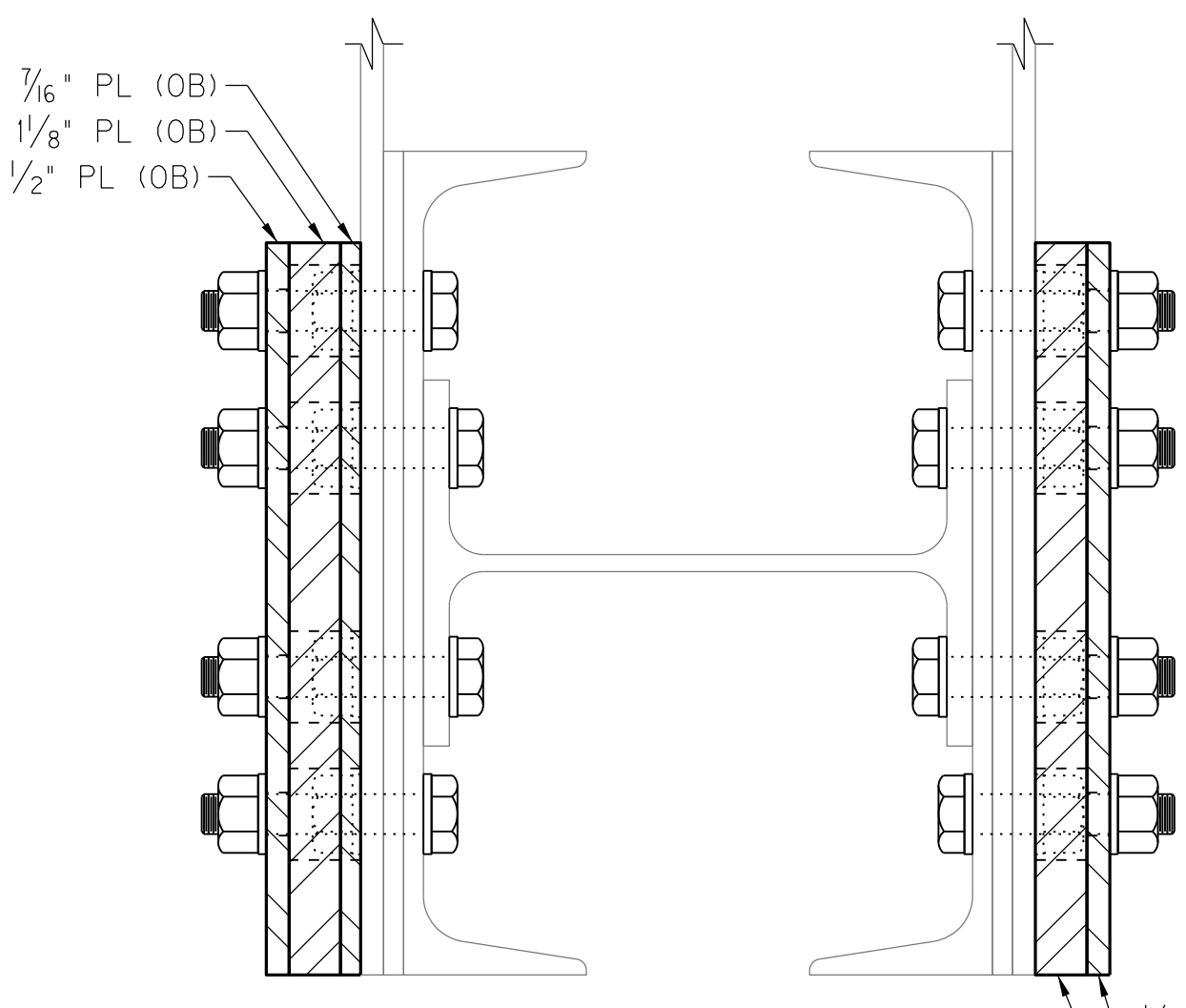
SHIM PLATE



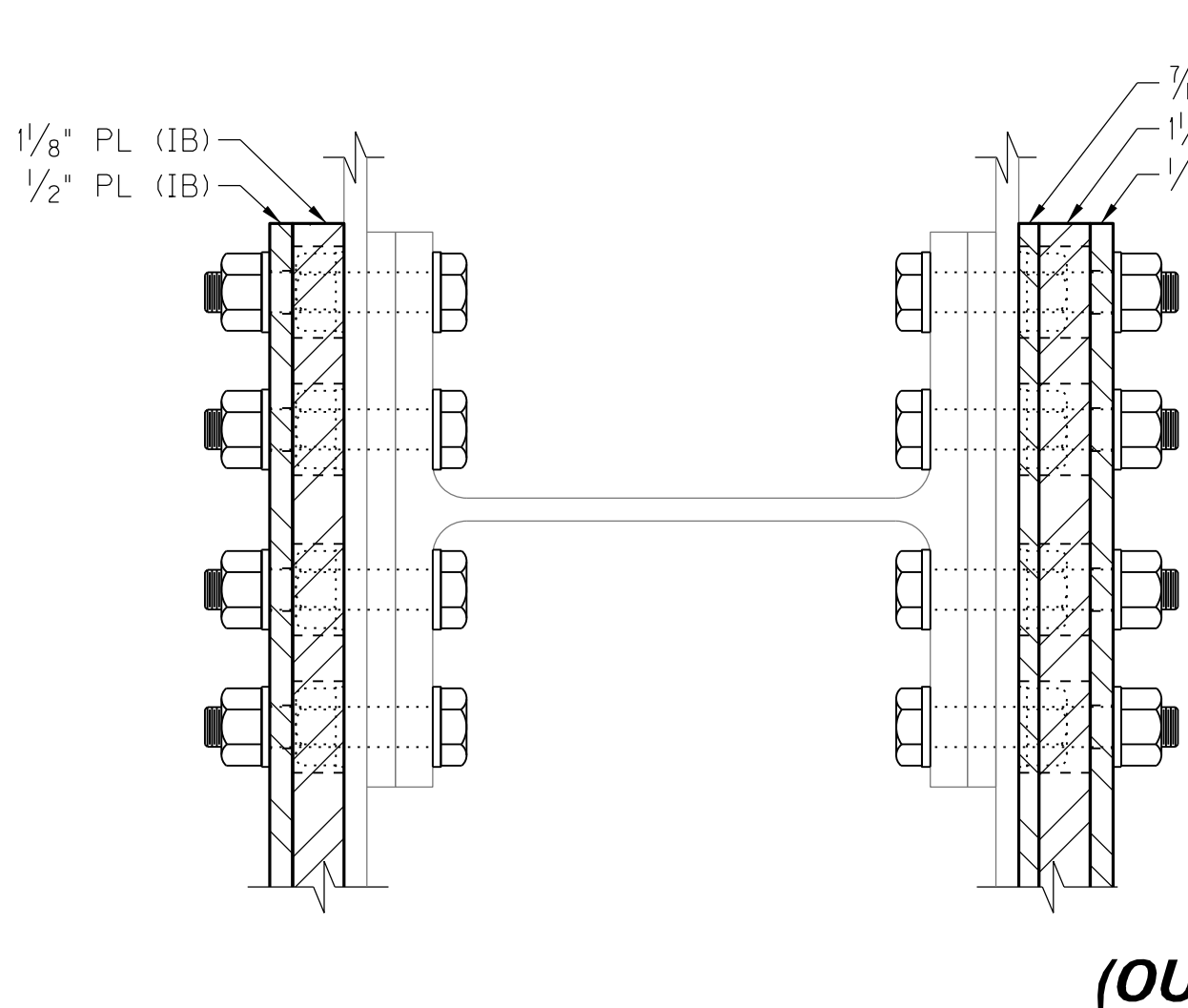
FILL PLATE



SECTION A-A



SECTION B-B



SECTION C-C

NOTATIONS:
 OB - DENOTES OUTBOARD
 IB - DENOTES INBOARD

(OUTBOARD-ALTERNATIVE)

REVISION	DATE
DATE: SEPTEMBER 26, 2016	CHECKED BY: C. GREENWELL
DESIGNED BY: T. PERKINS	A. FARMER
DETAILED BY: C. HUTCHINSON	

Commonwealth of Kentucky
 DEPARTMENT OF HIGHWAYS

COUNTY
CARROLL

ROUTE **US 42** CROSSING **KENTUCKY RIVER**

RETROFIT GUSSET PLATES L6-L6'

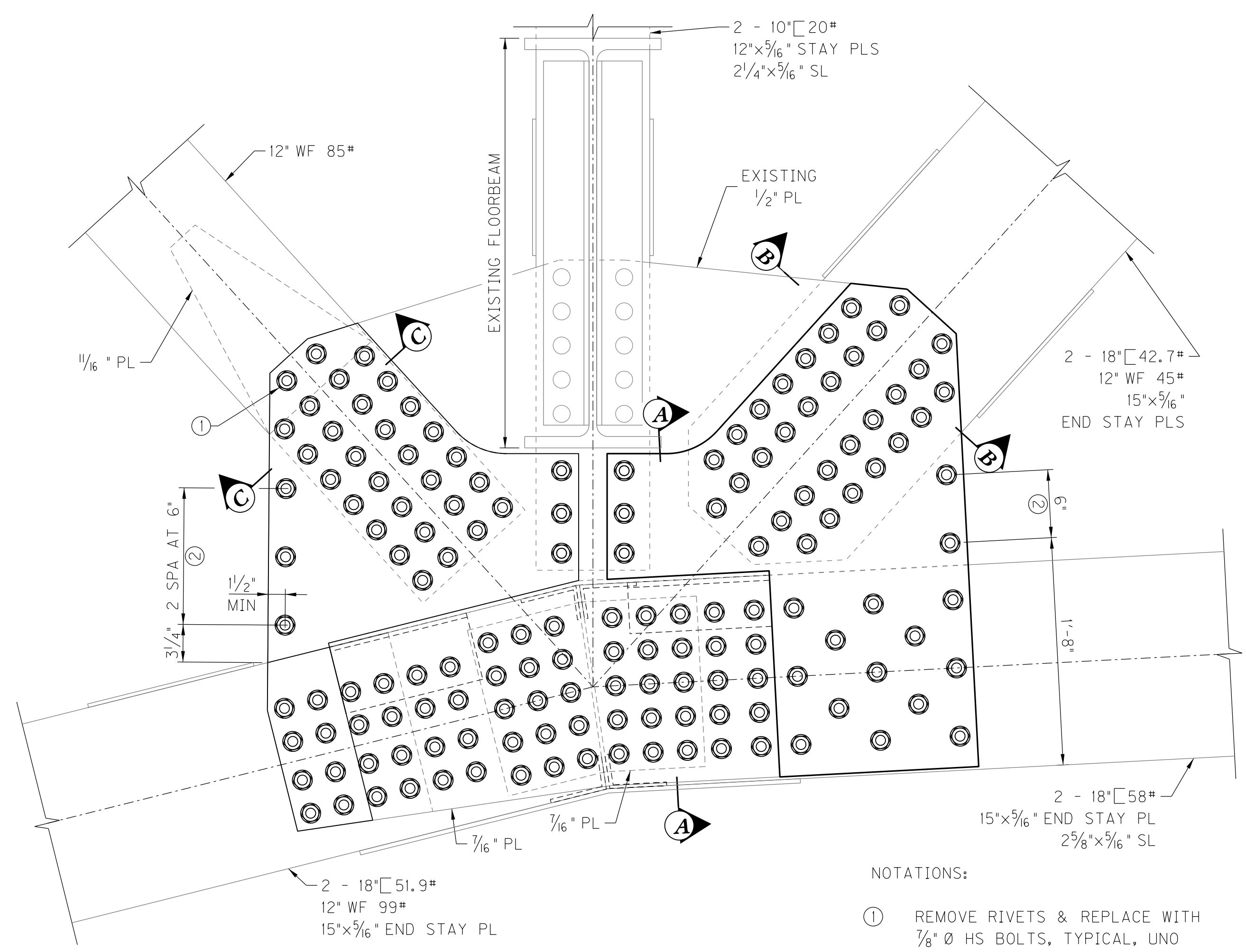
PREPARED BY

Stantec

SHEET NO.
S4
 DRAWING NO.
27643

ITEM NUMBER

FILE NAME: V:\1785\ACTIVE\178565012\STRUCTURAL\301.320 - US 42 OVER KY RIVER\REHAB PLANS\SUBMITTAL\CADD DELIVERABLES\27643_005.DGN
 USER: qjformer
 DATE PLOTTED: September 26, 2016
 E-SHEET NAME:
 MicroStation v8.11.7.443

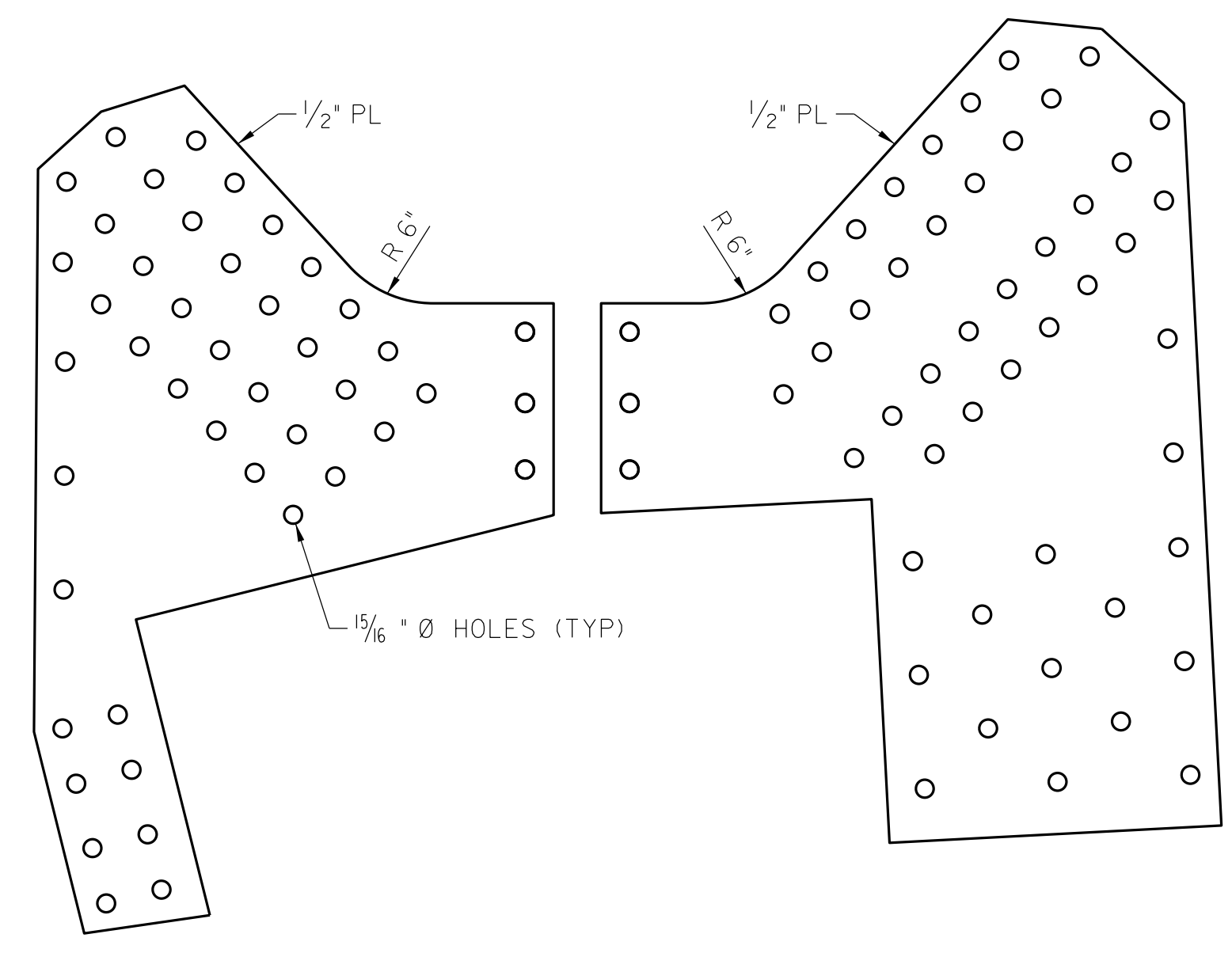


INBOARD ELEVATION
 L6 - UPSTREAM TRUSS ONLY
 L6' - UPSTREAM TRUSS ONLY

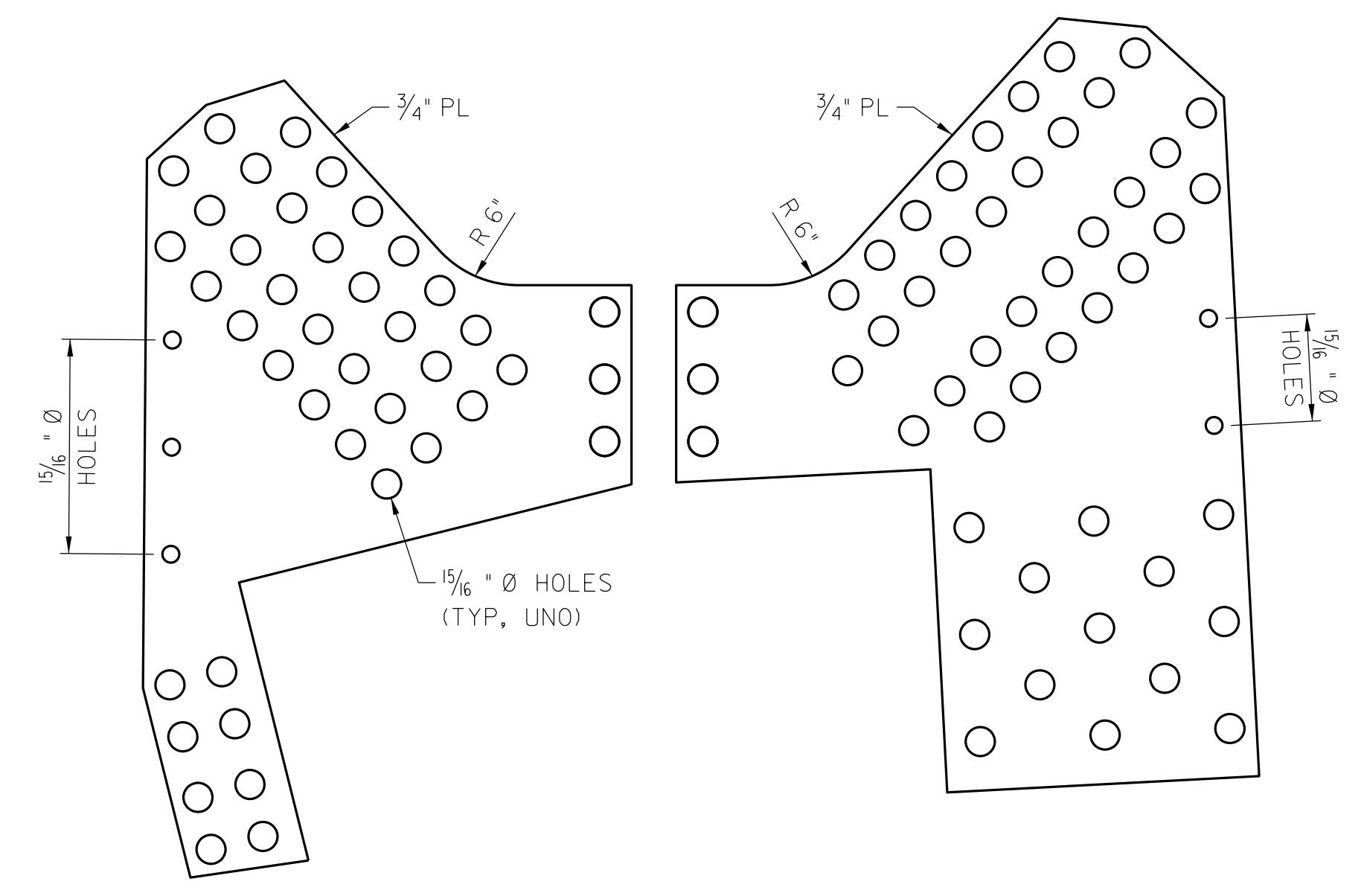
- NOTATIONS:
- ① REMOVE RIVETS & REPLACE WITH 7/8" Ø HS BOLTS, TYPICAL, UNO
 - ② INSTALL ADDITIONAL 7/8" Ø HS BOLTS THE ALONG EDGE OF GUSSET PLATE

CONSTRUCTION SEQUENCE:

1. POSITION NEW SHIM AND GUSSET PLATES AND TEMPORARILY SECURE TO THE EXISTING GUSSET PLATE PRIOR TO BEGINNING RIVET REPLACEMENT.
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GUSSET PLATES



SHIM PLATES

NOTE:
 FOR SECTION A-A, B-B AND C-C, SEE SHEET S3.

REVISION	DATE

DATE: SEPTEMBER 26, 2016
 DESIGNED BY: T. PERKINS
 CHECKED BY: C. GREENWELL
 DETAILED BY: C. HUTCHINSON
 A. FARMER

Commonwealth of Kentucky
 DEPARTMENT OF HIGHWAYS
 COUNTY
CARROLL

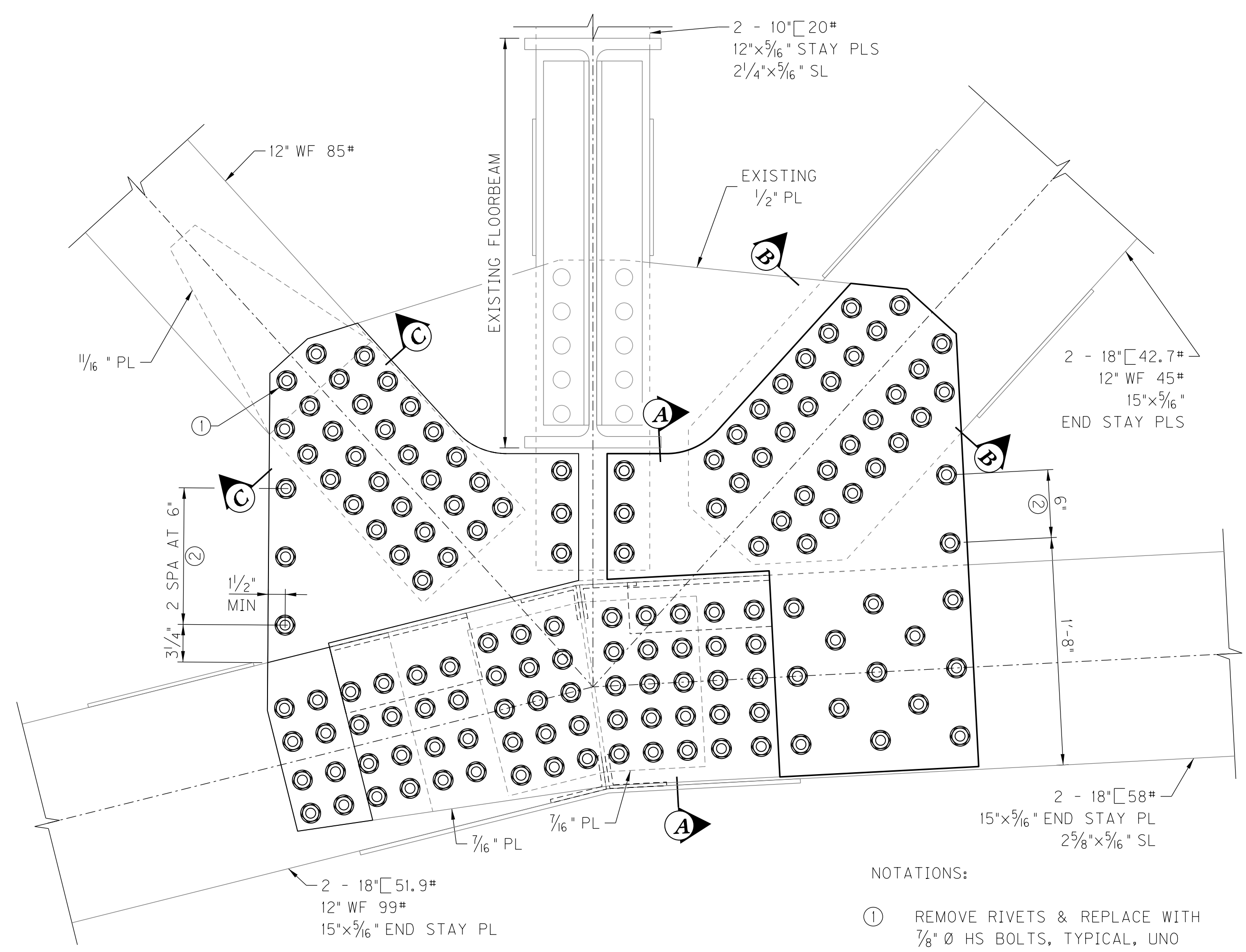
ROUTE US 42 CROSSING KENTUCKY RIVER

RETROFIT GUSSET PLATES L6-L6'
 PREPARED BY
Stantec
 SHEET NO. S5
 DRAWING NO. 27643

(INBOARD)

ITEM NUMBER

FILE NAME: V:\1785\ACTIVE\178565012\STRUCTURAL\301.320 - US 42 OVER KY RIVER\REHAB PLANS\SUBMITTAL\CADD DELIVERABLES\27643_006.DGN
 USER: qjformer
 DATE PLOTTED: September 26, 2016
 E-SHEET NAME:
 MicroStation v8.11.7.443



INBOARD ELEVATION

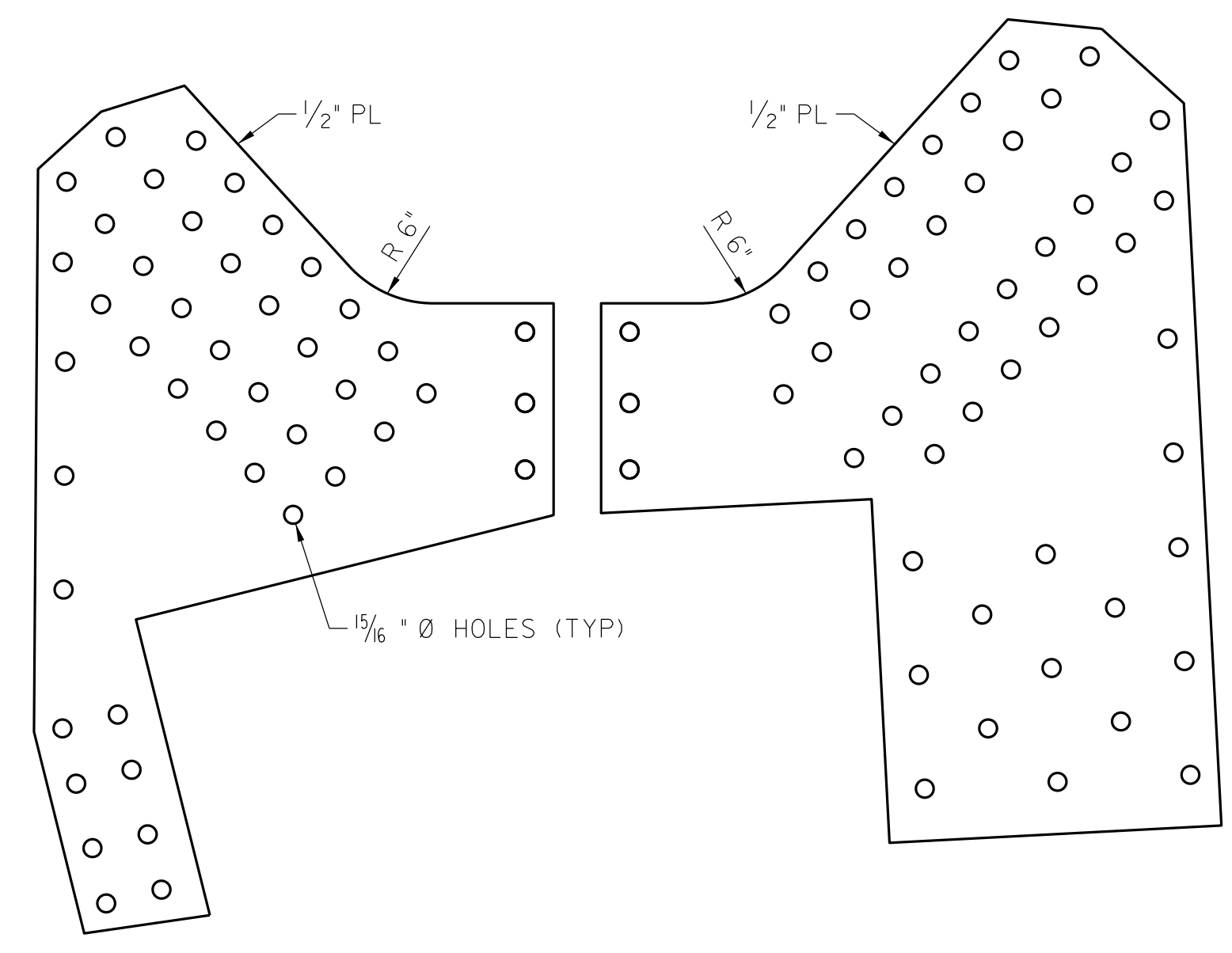
L6 - UPSTREAM TRUSS ONLY
 L6' - UPSTREAM TRUSS ONLY

NOTATIONS:

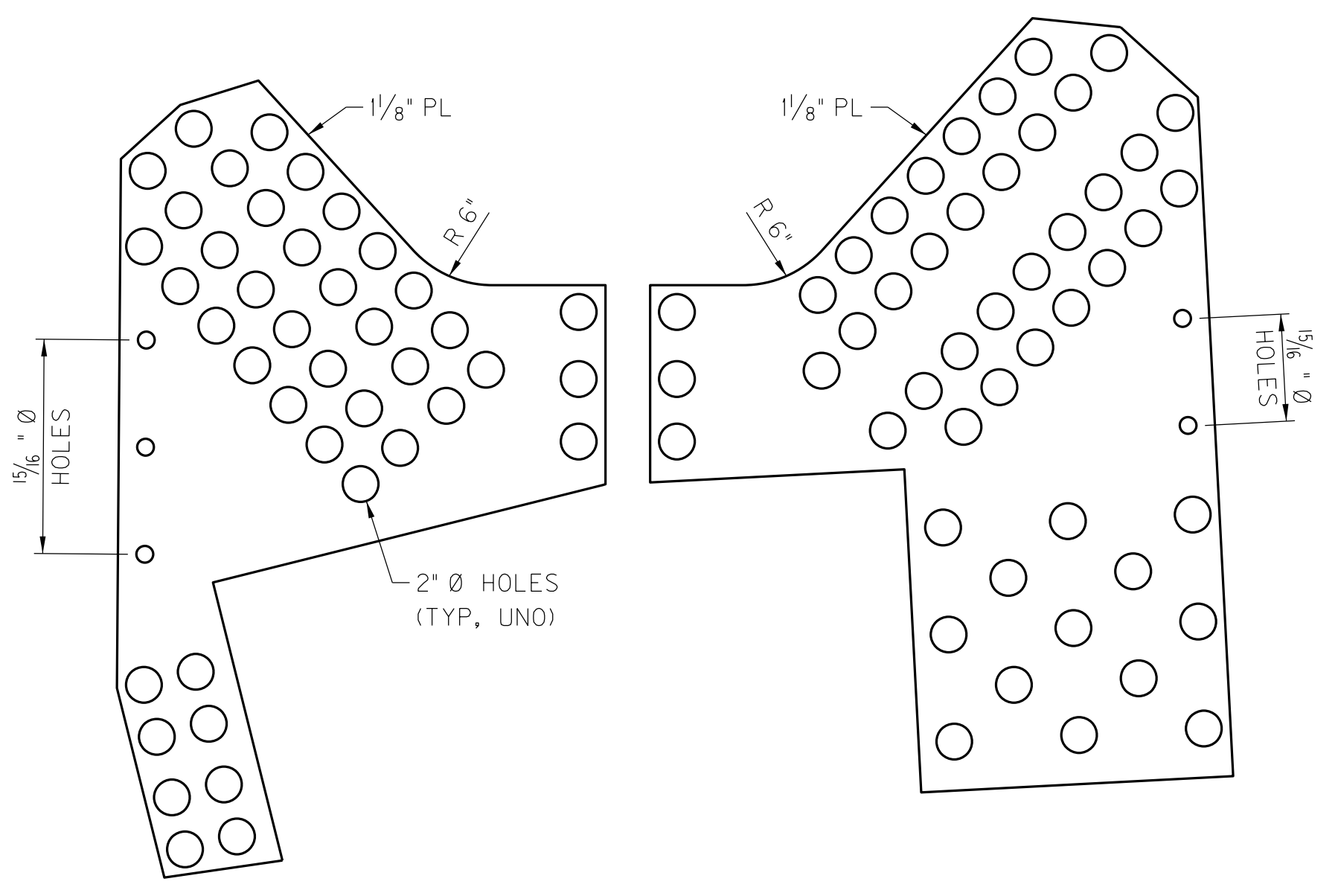
- ① REMOVE RIVETS & REPLACE WITH 7/8" Ø HS BOLTS, TYPICAL, UNO
- ② INSTALL ADDITIONAL 7/8" Ø HS BOLTS THE ALONG EDGE OF GUSSET PLATE

CONSTRUCTION SEQUENCE:

1. AT RIVET REPLACEMENT LOCATIONS, MECHANICALLY REMOVE RIVETS AND REPLACE WITH EXTRA LONG 7/8" Ø HS BOLTS, NUTS AND WASHERS. BOLTS SHALL BE OF SUFFICIENT LENGTH TO PROPERLY ENGAGE THE NEW SHIM AND GUSSET PLATES. ONLY REPLACE ONE RIVET AT A TIME.
2. INSTALL NEW SHIM AND GUSSET PLATES AND SECURE WITH ADDITIONAL HS NUTS AND WASHERS.
3. INSTALL ADDITIONAL STITCHING BOLTS ALONG THE FREE EDGES OF THE GUSSET.



GUSSET PLATES



SHIM PLATES

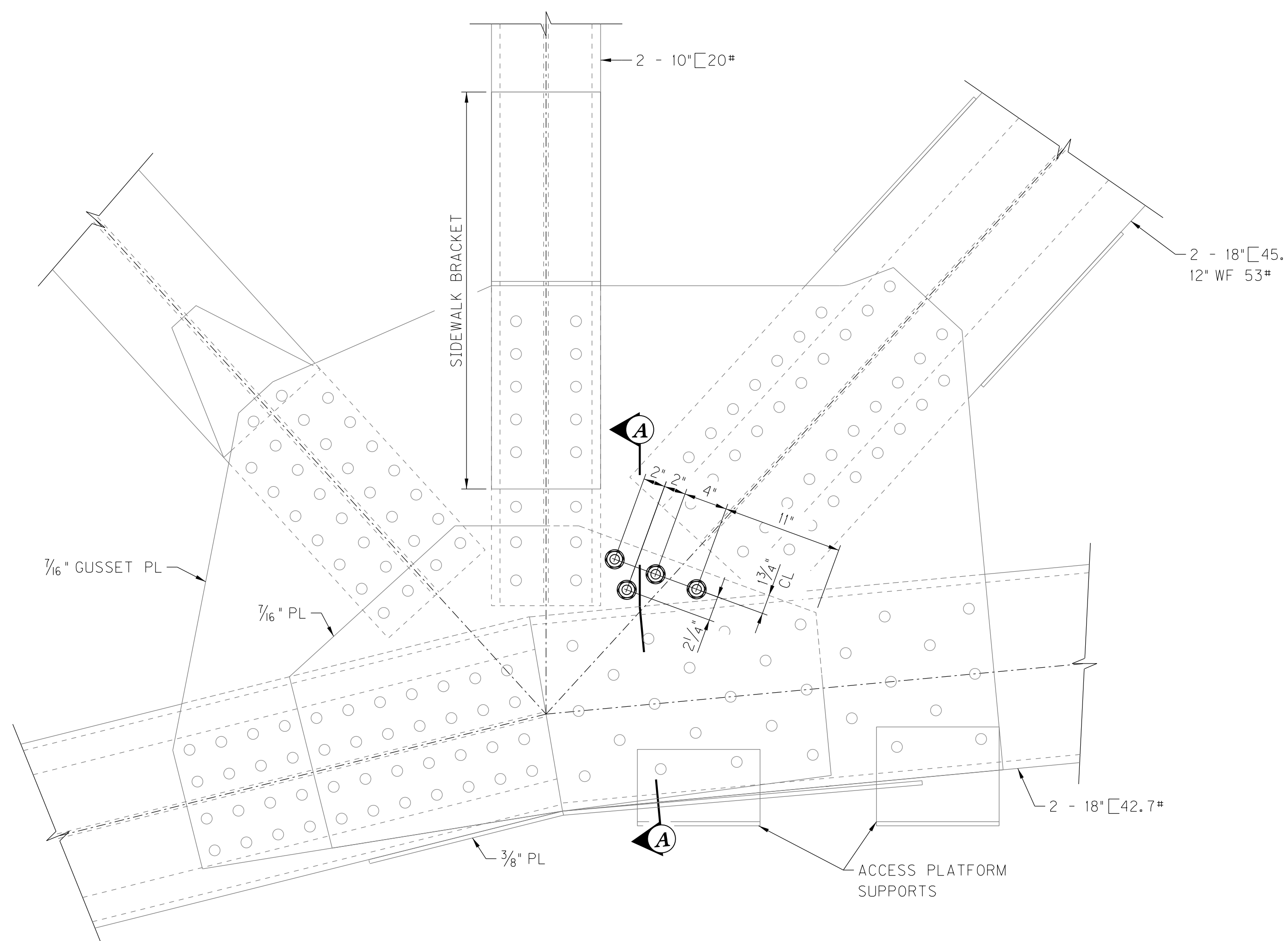
NOTE:
 FOR SECTION A-A, B-B AND C-C, SEE SHEET S4.

(INBOARD ALTERNATIVE)

ITEM NUMBER

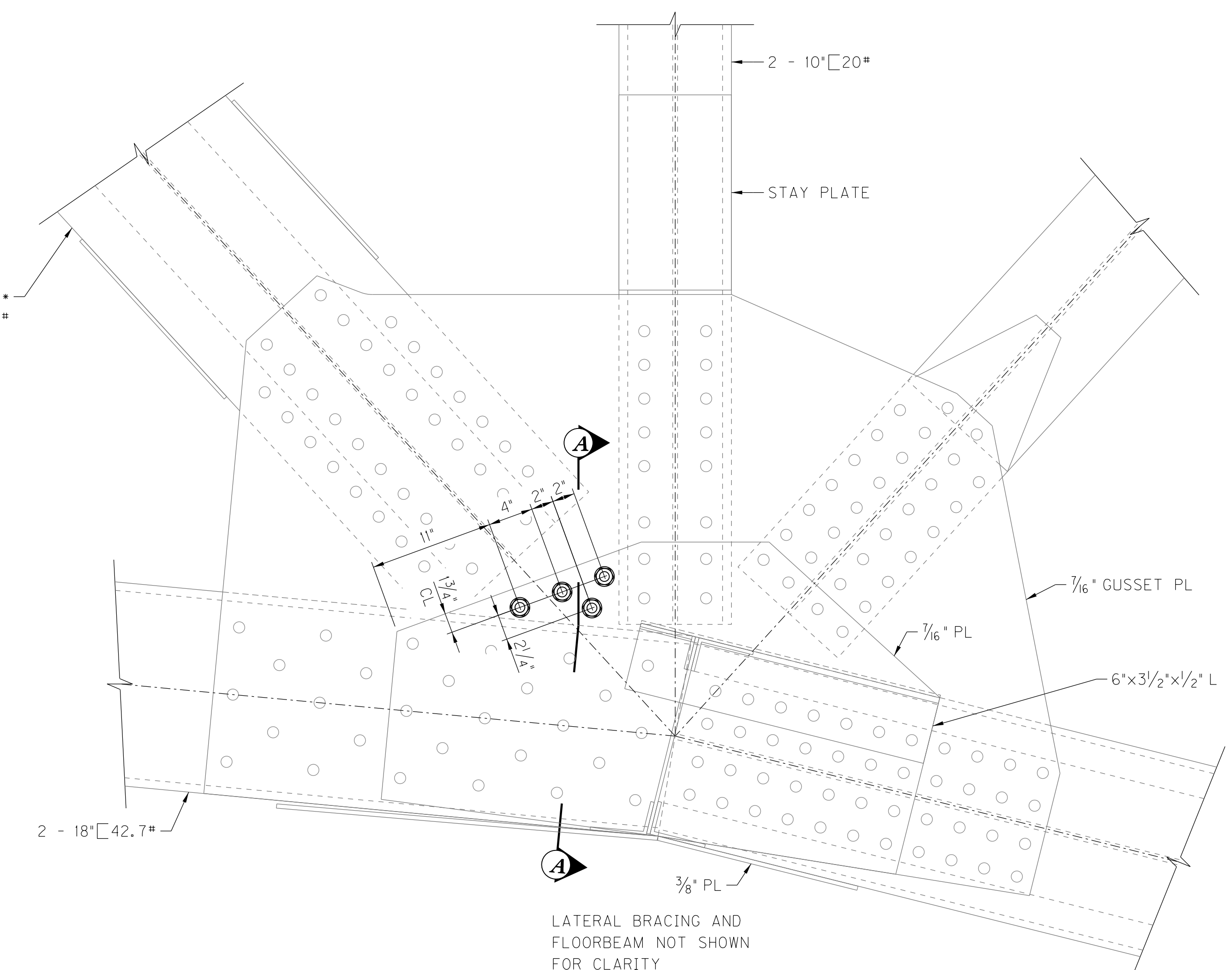
REVISION		DATE
DATE: SEPTEMBER 26, 2016	CHECKED BY	
DESIGNED BY: T. PERKINS	C. GREENWELL	
DETAILED BY: C. HUTCHINSON	A. FARMER	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY CARROLL		
ROUTE US 42	CROSSING KENTUCKY RIVER	
RETROFIT GUSSET PLATES L6-L6'		
PREPARED BY		SHEET NO.
Stantec		S6
		DRAWING NO. 27643

FILE NAME: V:\1785\ACTIVE\178565012\STRUCTURAL\301.320 - US 42 OVER KY RIVER\REHAB PLANS\SUBMITTAL\CADD DELIVERABLES\27643_007.DGN
 USER: qjformer
 DATE PLOTTED: September 26, 2016
 E-SHEET NAME:
 MicroStation v8.11.7.443



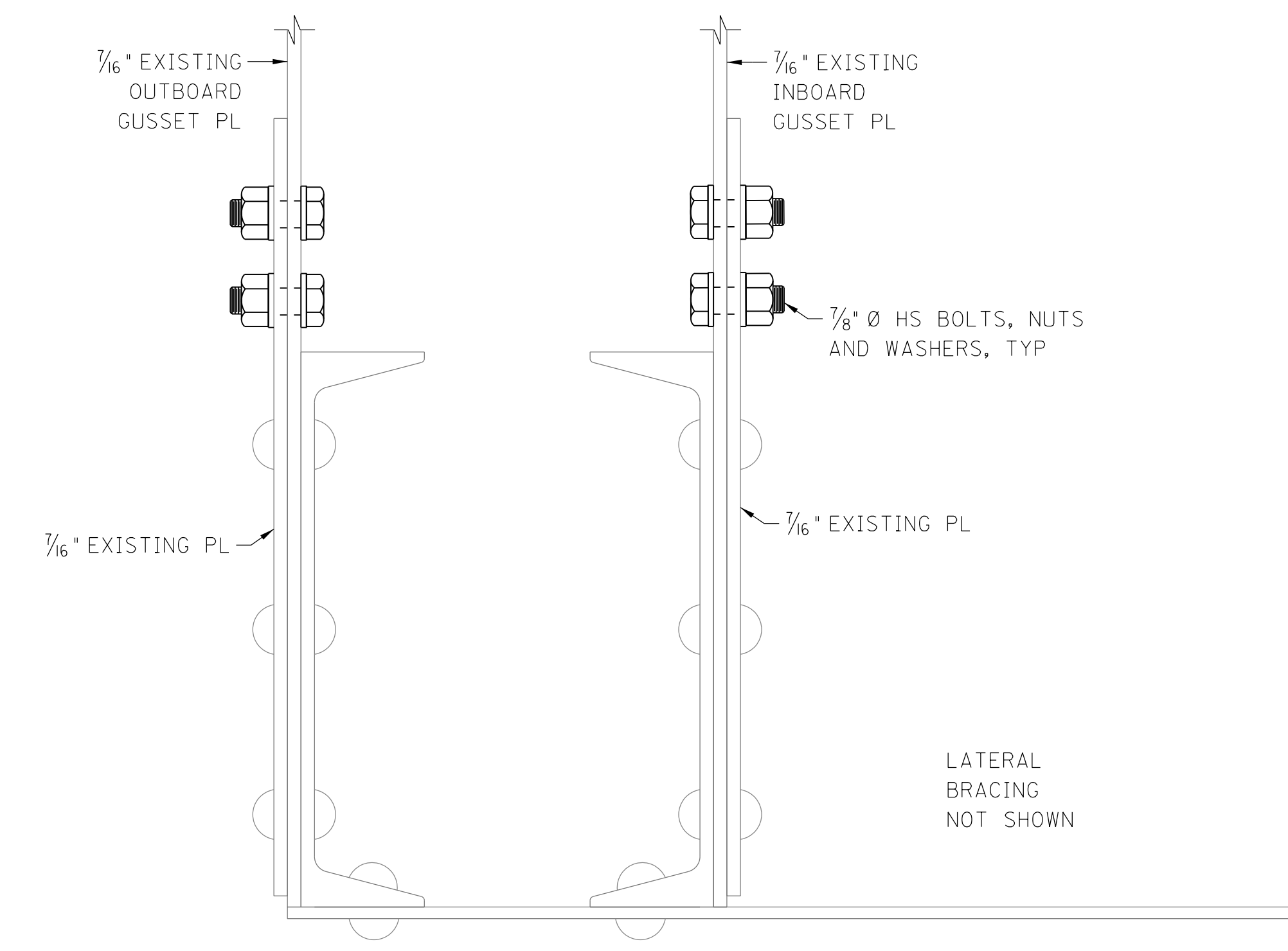
OUTBOARD ELEVATION

L10 - UPSTREAM TRUSS OUTBOARD SIDE
 L10' - UPSTREAM TRUSS OUTBOARD SIDE



INBOARD ELEVATION

L10 - UPSTREAM TRUSS INBOARD SIDE
 L10' - UPSTREAM TRUSS INBOARD SIDE

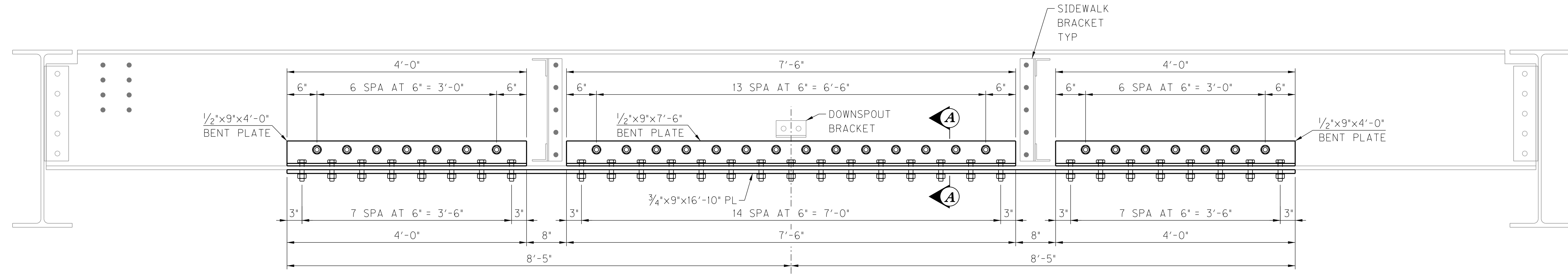


SECTION A-A

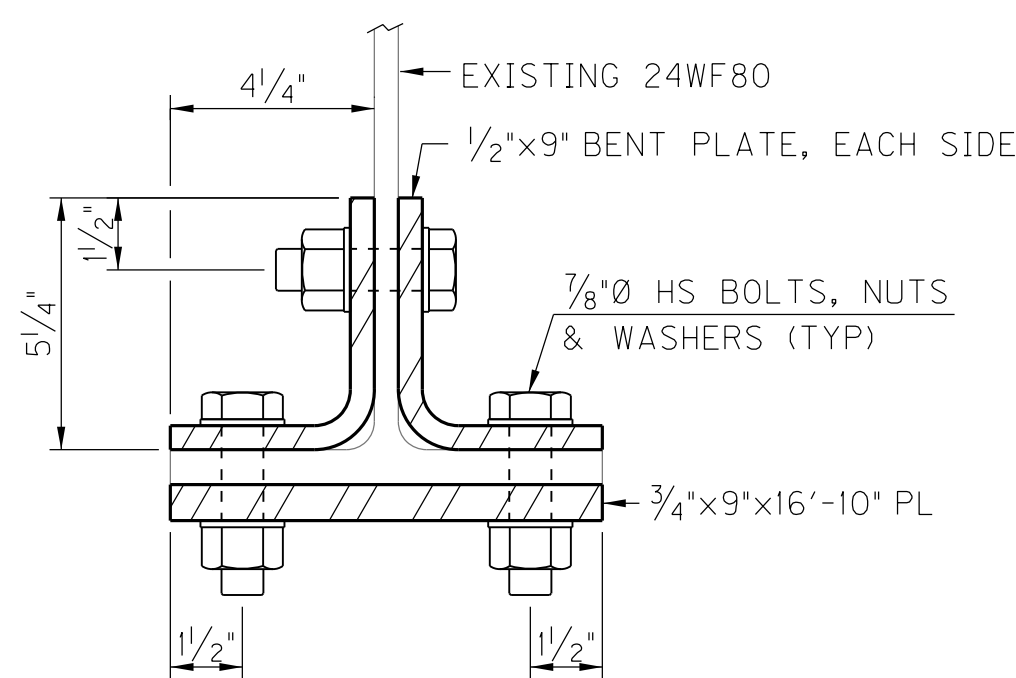
ITEM NUMBER	
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REVISION		DATE
DATE: SEPTEMBER 26, 2016	CHECKED BY	
DESIGNED BY: T. PERKINS	M. LAWLER	
DETAILED BY: C. HUTCHINSON	M. LAWLER	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY CARROLL		
ROUTE US 42	CROSSING KENTUCKY RIVER	
RETROFIT GUSSET PLATES L10-L10'		
PREPARED BY		SHEET NO.
Stantec		S7
		DRAWING NO.
		27643

FILE NAME: V:\1785\ACTIVE\178565012\STRUCTURAL\301.320 - US 42 OVER KY RIVER\REHAB PLANS\SUBMITTAL\CADD DELIVERABLES\27643_008.DGN
 USER: a1farmer
 DATE PLOTTED: September 26, 2016
 E-SHEET NAME:
 MicroStation v8.11.7.443



EXTERIOR STRINGER - 24WF80



SECTION A-A

**EXTERIOR STRINGER
 RETROFIT LOCATIONS**

FLOORBEAM SPAN	STRINGER LOCATIONS *
L5 - L6	DS ONLY
L6 - L7	DS ONLY
L11 - L12	DS AND US
L12 - L13	DS AND US
L13 - L14	DS AND US
L14 - L13'	DS AND US
L13' - L12'	DS AND US
L12' - L11'	DS AND US
L10' - L9'	US ONLY
L6' - L5'	DS AND US
L4' - L3'	DS ONLY
L3' - L2'	US ONLY
L2' - L1'	US ONLY
L1' - L0'	DS AND US

*DS - DENOTES DOWNSTREAM SIDE
 US - DENOTES UPSTREAM SIDE

REVISION		DATE
DATE: SEPTEMBER 26, 2016	CHECKED BY	
DESIGNED BY: C. GREENWELL	T. PERKINS	
DETAILED BY: J. HUMBERT	A. FARMER	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY CARROLL		
ROUTE US 42	CROSSING KENTUCKY RIVER	
RETROFIT EXTERIOR STRINGERS		
ITEM NUMBER	PREPARED BY Stantec	SHEET NO. S8 DRAWING NO. 27643

SPECIAL NOTE FOR SURFACE PREPARATION AND PAINT APPLICATION

I. DESCRIPTION

Clean and paint new and existing structural steel to the limits specified in the applicable Special Notes and as directed by the Engineer in accordance with the Kentucky Transportation Cabinet, Department of Highways, 2012 Standard Specifications for Road and Bridge Construction and the following requirements:

II. CONSTRUCTION

A. Surface Preparation

1. **Solvent Cleaning.** Prior to using any of the methods of substrate preparation herein, remove visible grease and oil from the surface. Clean the surface in accordance with SSPC-SP 1 to remove oil, grease, and any other surface contaminants. Only use solvents or detergents that are acceptable to the coating manufacturer and the Department. Use clean cloths for the final wiping of the cleaned surface.
2. **Pressure Washing.** Clean all structural steel by pressure washing. Size the pressure washers so that no combination of hose length or pressure washer placement will result in an output pressure less the 4,500 psi or more than 5,000 psi from any spray wand at any pressure washing location. Hold the wand nozzle a maximum of twelve (12) inches from the surface being pressure washed approximately normal (perpendicular) to the working surface. Use clean, potable water for pressure washing. Do not use water from streams, ponds, lakes or rivers. At the discretion of the Contractor, a non-sudsing, biodegradable detergent may be added to the water to optimize the cleaning operation. If a detergent is used, thoroughly rinse the surface afterward. After the surface is pressure washed and allowed to dry, inspect it for remaining visible dirt. Wipe the dried surface with black and white rags to ascertain cleanliness. Re-clean and rinse as necessary to remove all contaminants on the working surface. On all surfaces not cleaned satisfactorily by pressure washing, employ one or more of the following methods including: 1) Hand scrubbing using wet rags. 2) Solvent cleaning by wiping with solvent-soaked rags. 3) Steam cleaning. After using any additional cleaning procedures, pressure wash those areas.
3. **Mechanical Surface Preparation.** After pressure washing, perform mechanical surface preparation on all surfaces not possessing clean, adherent paint (e.g. rust, loose paint, or loose mill scale). All surfaces requiring mechanical surface preparation will be cleaned to an SSPC-SP3. Perform all mechanical surface preparations using power tools. Equip all power tools with vacuum shrouds.

Maintain and operate all vacuum shrouded power tools to collect generated debris. Equip all the air exhausts of the vacuum systems with HEPA filters.

After tool cleaning and prior to painting, remove all residue, dirt, dust, or similar contaminants from the cleaned surface to the satisfaction of the Engineer. The Contractor is solely responsible for any damages arising from the surface preparation operations.

- B. Paint Application.** Do not paint areas until they have been inspected and approved by the Engineer (or at the direction of the Engineer, the Department's Inspector). Apply paint only to dry, clean surfaces. Apply paint according to the manufacturer's recommendations with the exception that no paint will be applied unless steel temperature and ambient air temperature are above 32° F. For new steel, apply in the shop a **Class 1** primer from the approved list referenced in the SPECIAL NOTES FOR PAINT. For new installed structural steel and existing prepared structural steel apply a **Class IV (TYPE VI)** coating system from the approved list referenced in the SPECIAL NOTES FOR PAINT. Apply paint according to the manufacturer's recommendations and Section 607 of the Standard Specifications.

The finish coat shall be blue closely matching Federal Standard 595 FSX5095.

- C. Damages.** Take all steps necessary to preclude damage to public property from paint overspray. Those steps may include changes in the type of containment or cessation of spraying operations. The Contractor is solely responsible for any damages arising from the painting operations.

- D. Repair of Paint Defects.** Repair all defects in new paint.

- E. Residual lead paint may still be on bridge.** The Contractor is advised to take all necessary protective measures including worker safety and environmental regulations when executing this work. The Department will not consider any claims based on residual lead paint.

SPECIAL NOTE FOR PAINT

Use a coatings system from an approved supplier. A list of approved suppliers may be found in the Department's List of Approved Materials maintained by the Division of Materials. All paint supplied must conform to the applicable Special Notes contained in this proposal. The Department requires acceptance testing of samples obtained on a per-lot basis per-shipment. The Division of Materials will perform acceptance testing. At his option, the Engineer may elect to conduct more frequent sampling and testing. Test samples will be taken at the Contractor's paint storage site. Department personnel will perform sampling. Allow (10) working days for testing and approval of the sampled paint.

Note: It is the Contractor's responsibility to maintain an adequate inventory of approved paint. The Department assumes no responsibility for lost work due to rejection of paint or approved paint subsequently found to be defective during the application process.

SPECIAL NOTE FOR TRAFFIC CONTROL ON BRIDGE REPAIR CONTRACTS

I. TRAFFIC CONTROL GENERAL

Except as provided herein, traffic shall be maintained in accordance with the 2012 Standard Specifications, Section 112. All items of work necessary to maintain and control traffic will be paid at the lump sum bid price to "Maintain and Control Traffic".

Contrary to Section 106.01, traffic control devices used on this project may be new or used in new condition, at the beginning of the work and maintained in like new condition until completion of the work.

II. TRAFFIC COORDINATOR

Furnish a Traffic Coordinator as per Section 112. The Traffic Coordinator shall inspect the project maintenance of traffic, at least three times daily, or as directed by the Engineer, during the Contractor's operations and at any time a lane closure is in place. The personnel shall have access on the project to a radio or telephone to be used in case of emergencies or accidents.

The Traffic Coordinator shall report all incidents throughout the work zone to the Engineer on the project. The Contractor shall furnish the name and telephone number where the Traffic Coordinator can be contacted at all times.

III. SIGNS

Contrary to Section 112.04.02, signs will be measured once only regardless of how many times set up, moved, or relocated.

The contractor is to install warning signs for wide loads in advance of the bridge under the direction of the Engineer. This shall be paid under the lump sum bid price to Maintain and Control Traffic. The Department will not measure installation, maintenance, or removal for payment, and will consider these incidentals to Maintain and Control Traffic.

IV. LANE CLOSURES

Lane closures will only be paid once. If lane closures are left in place continuously over three days it is the contractors responsibility to install striping meeting MUTCD STANDARDS.

Lane closures will not be permitted on these days:

Easter Weekend (Thursday-Sunday)

Memorial Day Weekend (Friday-Monday)

Independence Day Weekend, Labor Day Weekend (Friday-Monday)

Thanksgiving Day Weekend (Thursday-Sunday)

Christmas/New Years (December 24-January 2)

V. PROJECT PHASING & CONSTRUCTION PROCEDURES

Lane closures are to be in place during the construction process to move loading to the opposite side of the retrofit being installed. Similar retrofits are to be placed one at a time. Therefore multiple gusset plate retrofits or stringer retrofits will not be allowed at one time, but one each of the gusset plate and stringer retrofits can occur during the same time as long as the retrofits are on the same side of the bridge. Length of lane closure will be the entire length of the truss spans plus tapers. Single lane closures will be in effect for a maximum cumulative total of 24 calendar days. This limit includes total days of lane closures in both directions.

Maintain one lane of traffic during construction in accordance with Standard Drawing No. TTC-100-03 for lane closures. The minimum clear lane width required is 11'-0". Flagging shall be used during peak traffic (6:30am to 8:30am and 3:00pm to 5:00pm).

VI. VARIABLE MESSAGE SIGNS

If deemed necessary by the Engineer, variable message signs will be installed, operated, and maintained by the Department.

VII. TEMPORARY SIGNAL

Provide, install, and maintain a temporary multi phase traffic signal in accordance with Standard Drawing No. TTC-110-02. The Contractor must provide a 24-hour contact person and number available to maintain the temporary signals as needed. The signal may be used in lieu of flagging for all hours other than those mentioned in paragraph V.