

Submission Review

project **Multipurpose Building**
441-4200

location **Collins Bay Institution, Kingston, Ontario**

client **Correctional Services Canada (CSC)**

constructor **CORCAN Construction**

subject **Structural Steel Shop Drawings**

date **15 February 2018**

to **Daniel MacLeod** CORCAN Site Superintendant daniel.macleod@csc-scc.gc.ca

by **Rick MacEwen** WMTA rmacewen@wmta.ca

copy **Chris Stein** CORCAN Construction Manager chris.stein@csc-scc.gc.ca

Amar Bara CPL Project Manager amar.bara@colliersprojectleaders.com

file 1403-C1-3b-031.doc

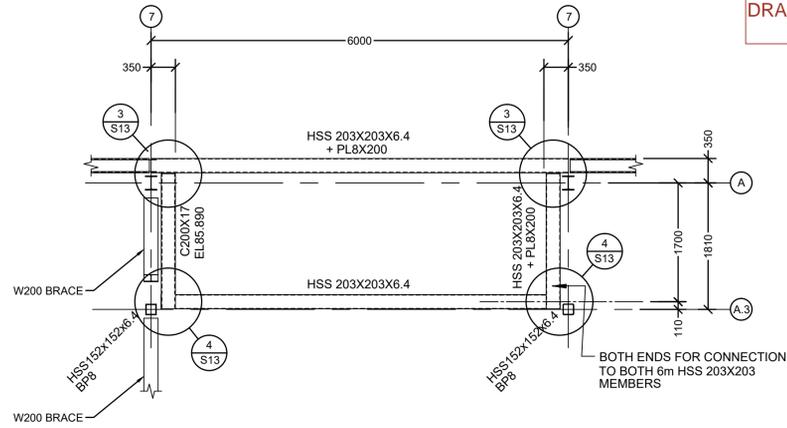
The review of submissions by Watson MacEwen Teramura Architects and/or its sub consultants is for sole purpose of ascertaining conformance with general concept. This review shall not mean that Watson MacEwen Teramura Architects and/or its sub consultants approves the detail design inherent in the submission, responsibility for which shall remain with Contractor, and such review shall not relieve the Contractor of responsibility for errors or omissions in submissions or of responsibility for meeting the requirements of construction and the Contract Documents. Without restricting generality of foregoing, the Contractor is responsible for dimensions to be confirmed and correlated at job site, for information that pertains solely to fabrication processes or to techniques of construction and installation and for co-ordination of the Work of sub-trades.

The following submission was reviewed and the status of each component is as noted:

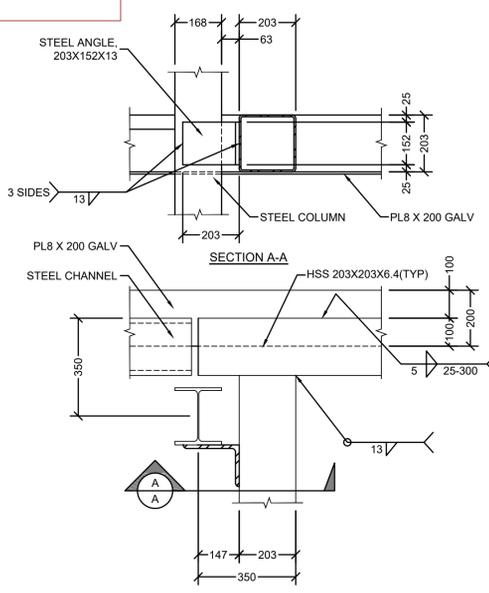
Component	Status	Comments
E. R. Trought Design Inc. Structural Steel Shop Drawings S1 to S13	REVIEWED AS NOTED	See comments and annotations by Structural Engineer. A resubmission is not necessary unless the Contractor is in disagreement with the comments and annotations.

NOTE:
1. STEEL DECKING AND STEEL JOIST SHOP DRAWINGS TO BE SUBMITTED BY SUPPLIERS.

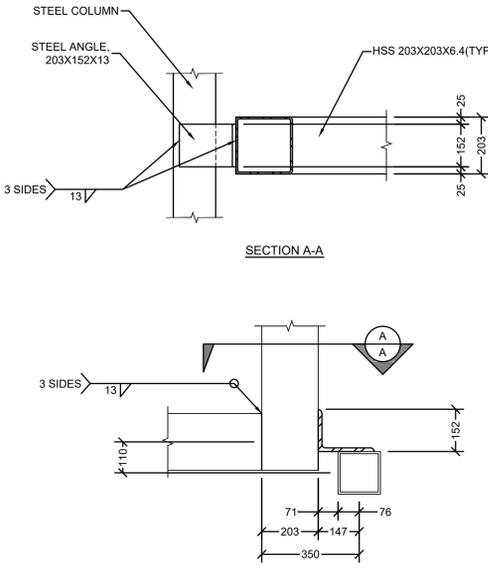
SUBMIT ALSO STEEL DECK AND STEEL JOIST SHOP DRAWINGS



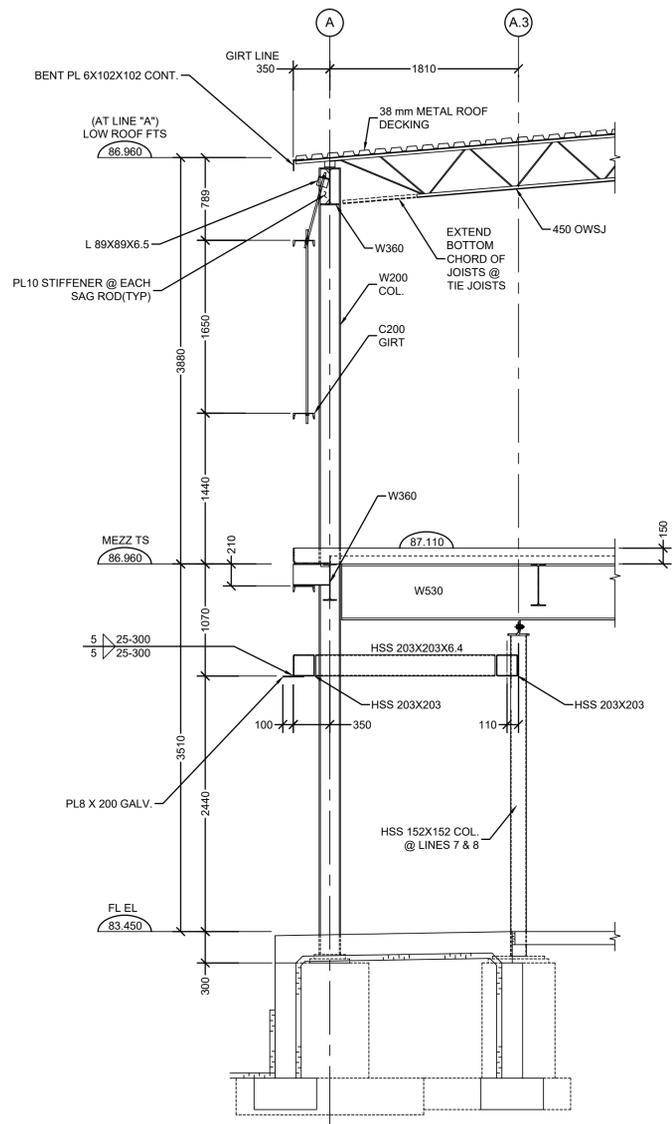
1 PLAN VIEW @ ELEV.
S13 1 1/2" = 10"



3 CONNECTION DETAIL 1
S13 1 1/2" = 10"



4 CONNECTION DETAIL 2
S13 1 1/2" = 10"



2 BASE PLATE DETAIL 1
S13 1 1/2" = 10"

<input type="checkbox"/>	REVIEWED		
<input checked="" type="checkbox"/>	REVIEWED AS NOTED	PROJECT NO.	
<input type="checkbox"/>	REVISE AND RESUBMIT	REVIEWED BY:	PB
<input type="checkbox"/>	REVIEWED FOR IMPACT ON BASE STRUCTURE ONLY	DATE RECEIVED:	FEB 12, 2018
<input type="checkbox"/>	NOT REVIEWED	DATE RETURNED:	FEB 14, 2018

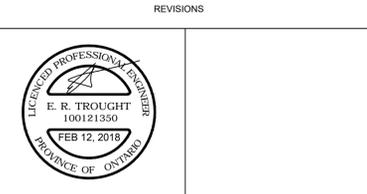
THIS DRAWING HAS ONLY BEEN REVIEWED ON A SAMPLING BASIS FOR GENERAL CONFORMITY WITH STRUCTURAL CONTRACT DOCUMENTS. THE REVIEW BY WSP CANADA DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO MAKE THE WORK ACCURATE AND IN CONFORMITY WITH ALL CONTRACT DOCUMENTS. THIS INCLUDES SHOP DRAWING REVIEW, COORDINATION BETWEEN INTERFACING TRADES AND MANUFACTURE OF APPLICABLE PRODUCTS. ALL DIMENSIONS AND TOLERANCES TO BE VERIFIED BY THE CONTRACTOR IN THE FIELD BEFORE THE START OF THE WORK.



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- STRUCTURAL STEEL:**
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No.	DATE	DESCRIPTION	BY
1	10/26/17	MINOR CHANGES TO WELDING	JNM
2	11/24/17	UPDATED DRAWS TO REFLECT BP8 & BP9	JNM
3	11/29/17	UPDATED TO REFLECT CONSULTANT REVIEW	JNM
4	02/12/18	UPDATED TO REFLECT CONSULTANT REVIEW	JNM



DRAWINGS MUST NOT BE SCALED CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND SHALL REPORT ANY DISCREPANCY TO THE ENGINEER BEFORE PROCEEDING

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CSC MULTI-PURPOSE BUILDING
CBI MINIMUM INSTITUTION
(FRONTENAC)

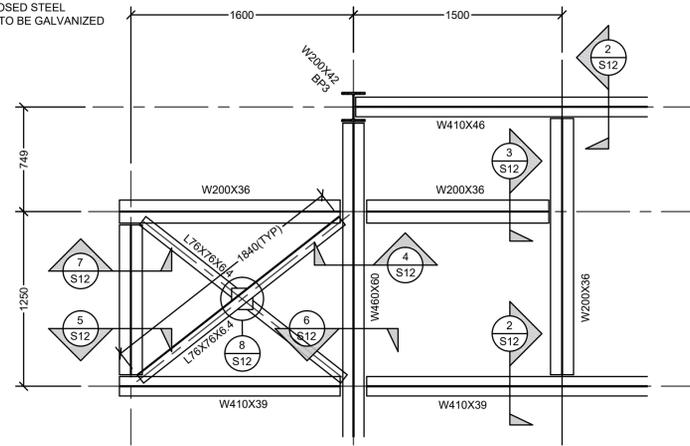
LOCATION:
KINGSTON, ONTARIO

FOR:
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

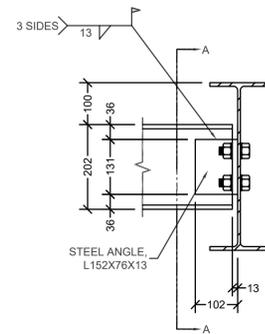
DRAWING:
STRUCTURAL LAYOUT & DETAILS

REVIEWED BY:	SCALE:	DRAWING No.
DEPT. NAME	AS SHOWN	S13
ARCH. N/A		
STR. ET, JM		
MEC. N/A	DATE	
ELE. N/A	FEB 12, 2018	
JOB #: 17201	SHEET: 13 OF 13	JOB#

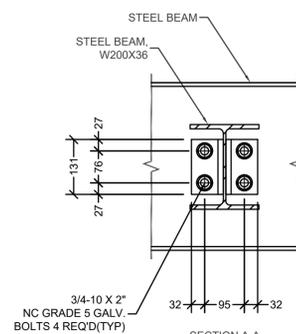
NOTE:
1. ALL EXPOSED STEEL MEMBERS TO BE GALVANIZED



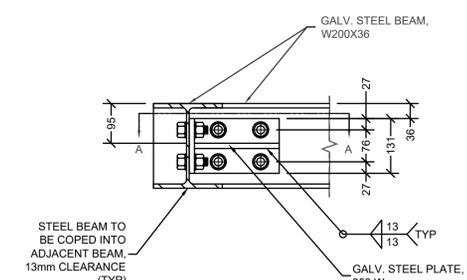
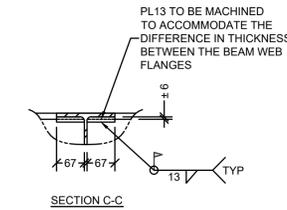
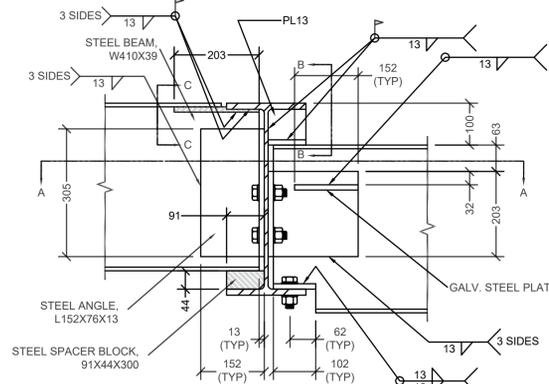
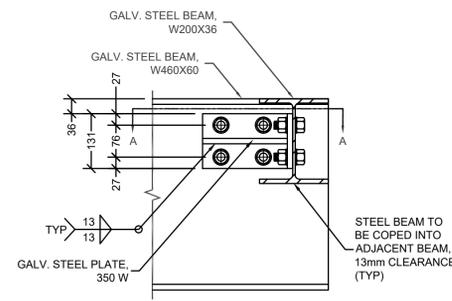
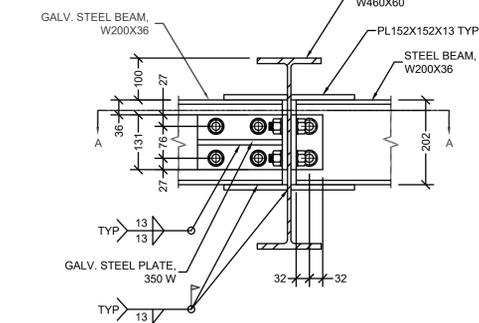
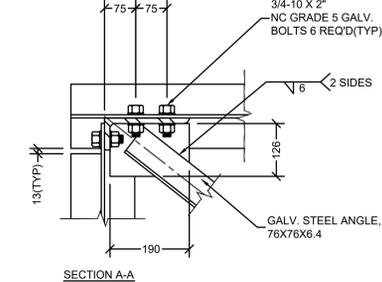
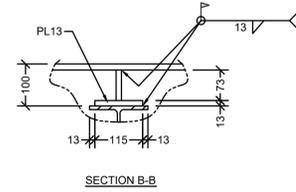
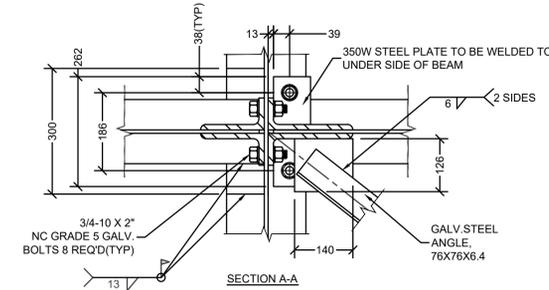
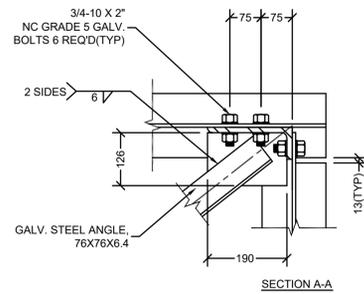
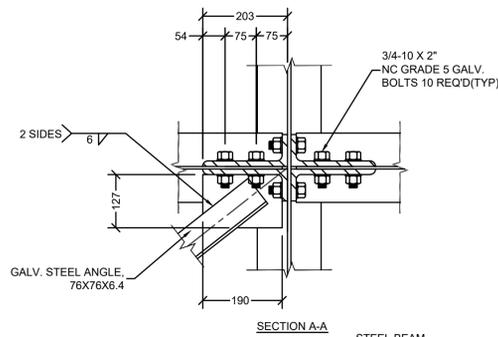
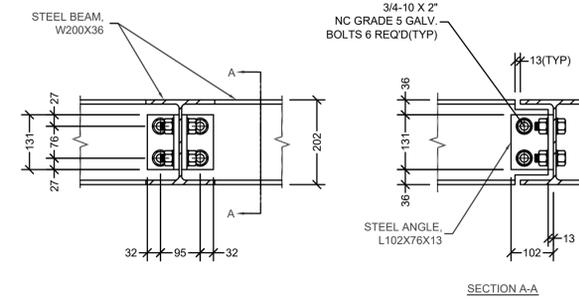
1 EXTERIOR STAIR PLATFORM PLAN VIEW
1/2" = 10"



2 CONNECTION DETAIL 1
1 1/2" = 10"



3 CONNECTION DETAIL 2
1 1/2" = 10"

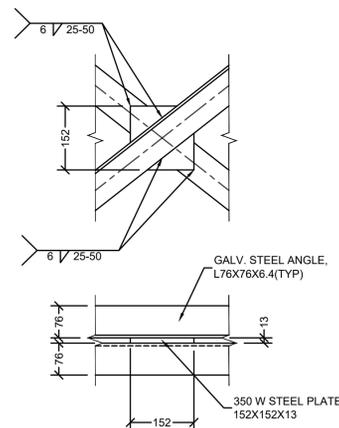


4 CONNECTION DETAIL 3
1 1/2" = 10"

5 CONNECTION DETAIL 4
1 1/2" = 10"

6 CONNECTION DETAIL 5
1 1/2" = 10"

7 CONNECTION DETAIL 6
1 1/2" = 10"



8 CONNECTION DETAIL 7
1 1/2" = 10"

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REVISIONS

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CSC MULTI-PURPOSE BUILDING CBI MINIMUM INSTITUTION (FRONTENAC)

LOCATION:
KINGSTON, ONTARIO

FOR: **PUBLIC WORKS AND GOVERNMENT SERVICES CANADA**

DRAWING:
EXTERIOR STAIR PLATFORM STRUCTURAL DETAILS

REVIEWED BY: SCALE: DRAWING No.

DEPT.	NAME	DATE	S12
ARCH.	N/A		
STR.	ET, JM		
MEC.	N/A	FEB 12, 2018	
ELE.	N/A		

JOB #: 17201 SHEET: 12 OF 13 JOB#



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K7M 1S2 FAX 613 531-0602

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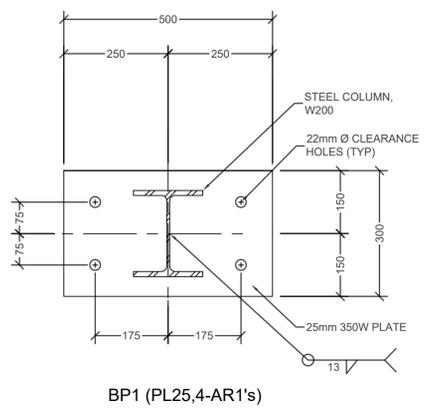
CSC MULTI-PURPOSE BUILDING
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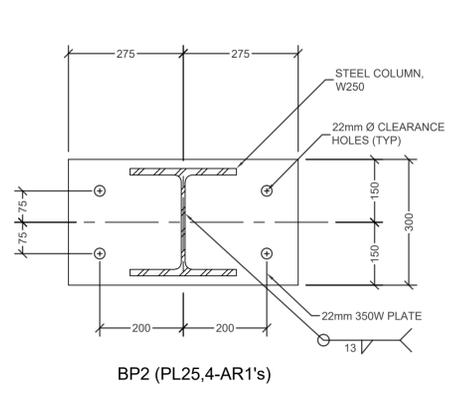
DRAWING:
BASE PLATE DETAILS

REVIEWED BY:	SCALE	DRAWING No.
DEPT. NAME	AS SHOWN	S11
ARCH. N/A		
STR. ET, JM		
MEC. N/A		
ELE. N/A	DATE	FEB 12, 2018
JOB #: 17201	SHEET: 11 OF 13	
		JOB#



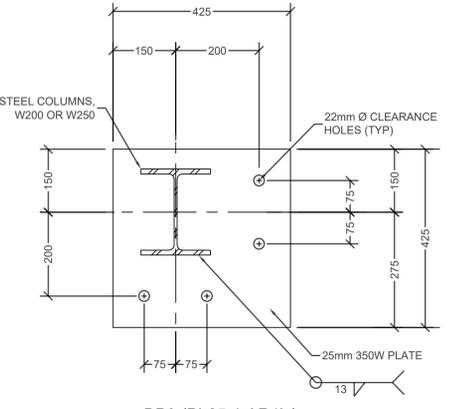
BP1 (PL25,4-AR1's)

1 BASE PLATE DETAIL 1
S11 1 1/2" = 10"



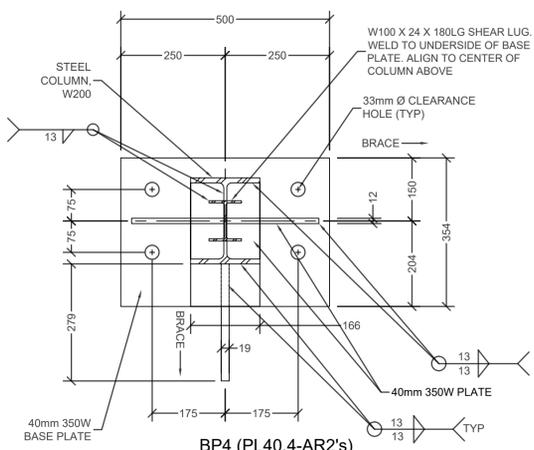
BP2 (PL25,4-AR1's)

2 BASE PLATE DETAIL 2
S11 1 1/2" = 10"



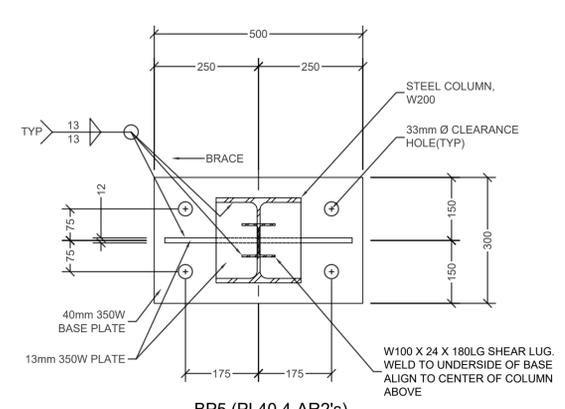
BP3 (PL25,4-AR1's)

3 BASE PLATE DETAIL 3
S11 1 1/2" = 10"



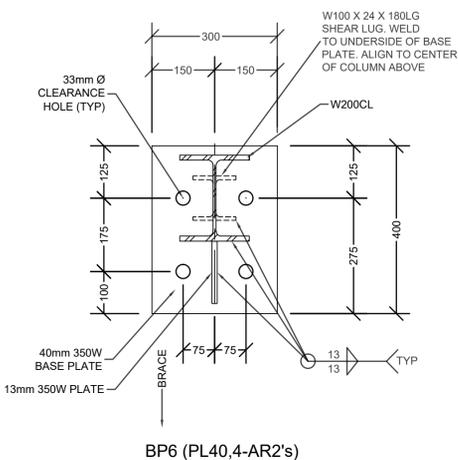
BP4 (PL40,4-AR2's)

4 BASE PLATE DETAIL 4
S11 1 1/2" = 10"



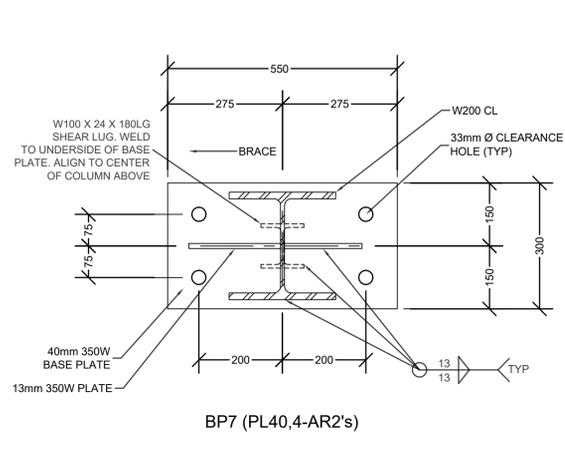
BP5 (PL40,4-AR2's)

5 BASE PLATE DETAIL 5
S11 1 1/2" = 10"



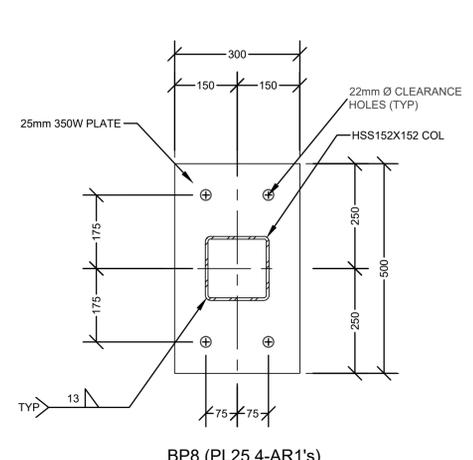
BP6 (PL40,4-AR2's)

6 BASE PLATE DETAIL 6
S11 1 1/2" = 10"



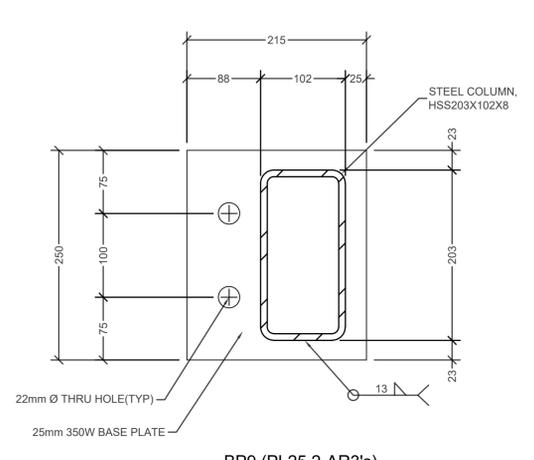
BP7 (PL40,4-AR2's)

7 BASE PLATE DETAIL 7
S11 1 1/2" = 10"



BP8 (PL25,4-AR1's)

8 BASE PLATE DETAIL 8
S11 1 1/2" = 10"



BP9 (PL25,2-AR3's)

9 BASE PLATE DETAIL
S11 3" = 10"



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No.	DATE	DESCRIPTION	BY

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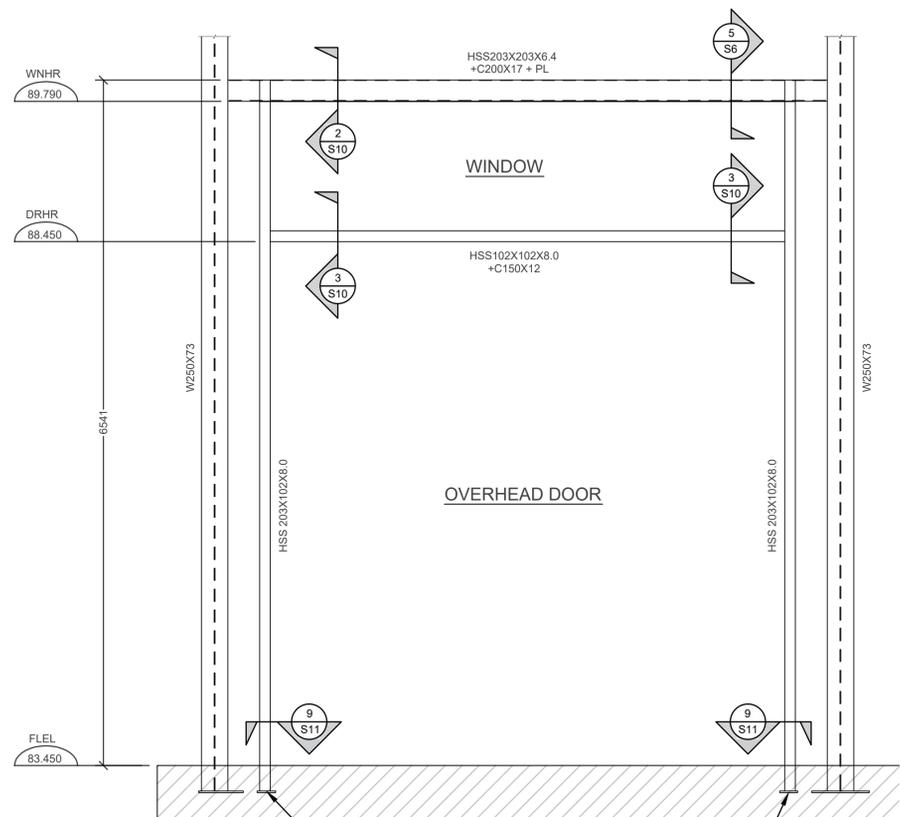
**CSC MULTI-PURPOSE BUILDING
CBI MINIMUM INSTITUTION
(FRONTENAC)**

LOCATION:
KINGSTON, ONTARIO

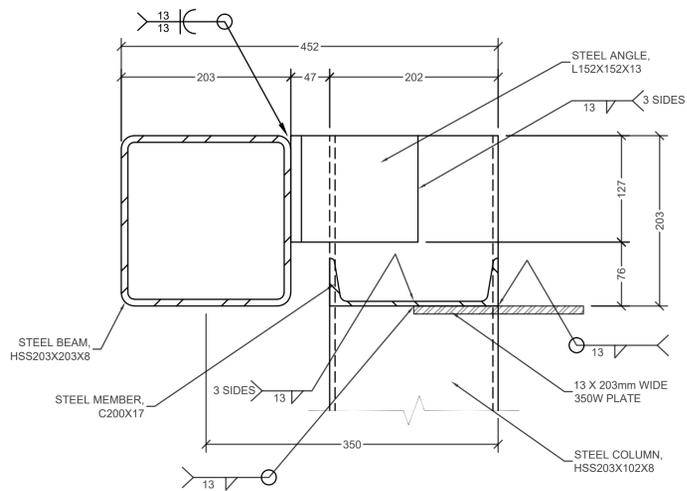
FOR: **PUBLIC WORKS AND GOVERNMENT SERVICES CANADA**

DRAWING:
STRUCTURAL ELEVATIONS CONT. & DETAILS

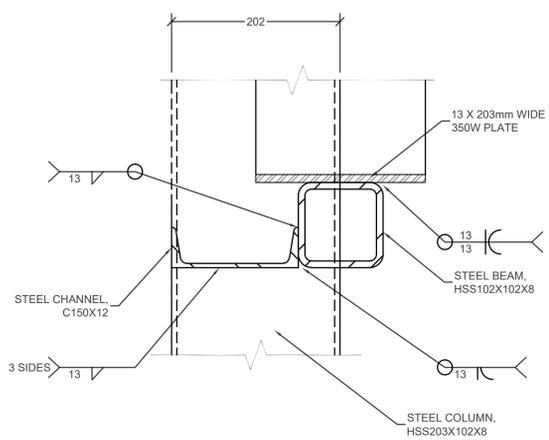
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DEPT. NAME	AS SHOWN	S10
ARCH. N/A		
STR. ET,JM		
MEC. N/A		
ELE. N/A	DATE	FEB 12, 2018
JOB #: 17201	SHEET: 10 OF 13	JOB#



1 OVERHEAD DOOR & WINDOW DETAILS
3/8" = 1"



2 WINDOW HEADER CONNECTION DETAIL
3" = 1"



3 OVERHEAD DOOR HEADER DETAIL
3" = 1"

COORDINATE LOCATION WITH OVERHEAD DOOR SUPPLIER
GENERAL CONTRACTOR TO COORDINATE POST BEARING ON PIER



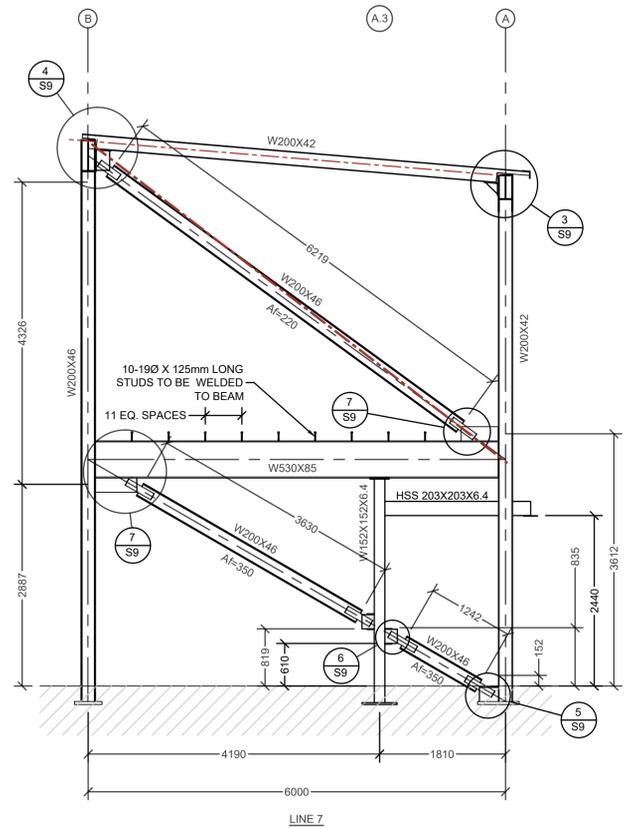
31 HILLENDALE AVE. TEL 613 531-7873
 KINGSTON, ONTARIO CEL 613 561-3428
 K7M 1S2 FAX 613 531-0602

E.R. TROUGHT DESIGN INC.

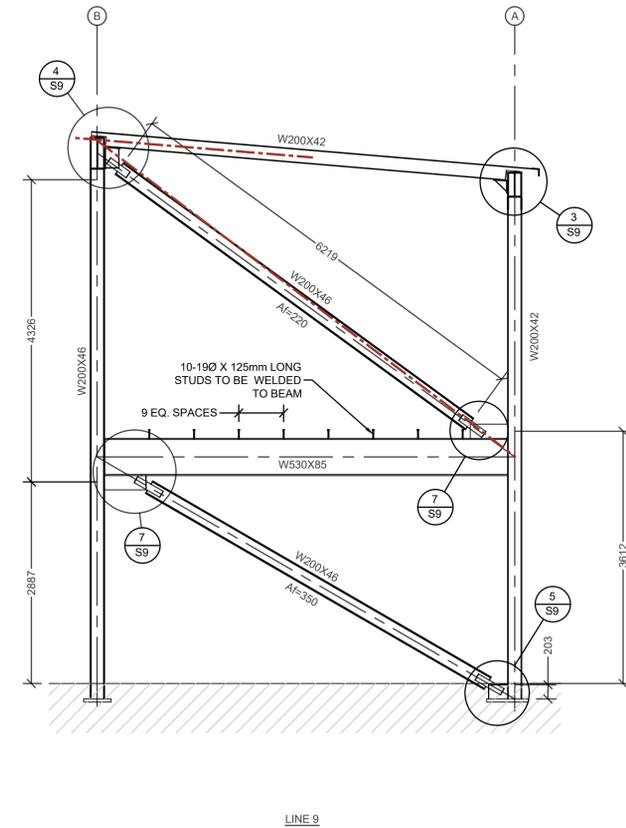
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STRUCTURAL STEEL:

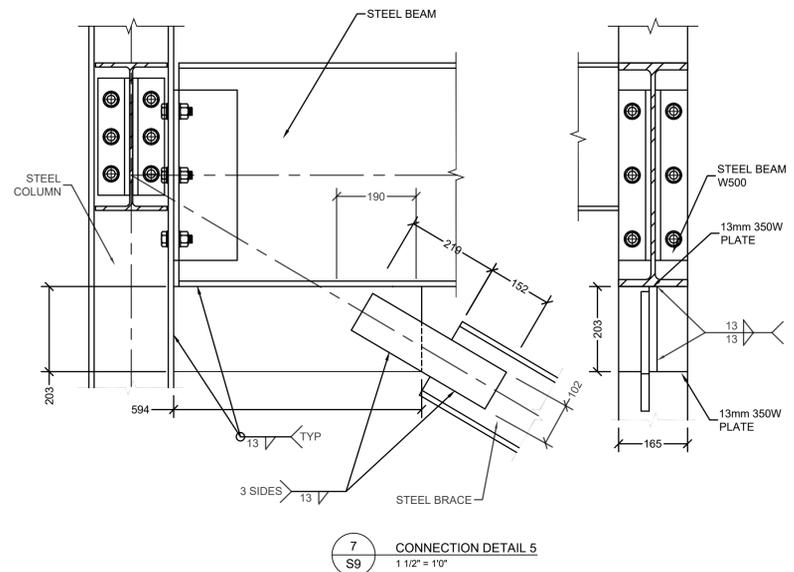
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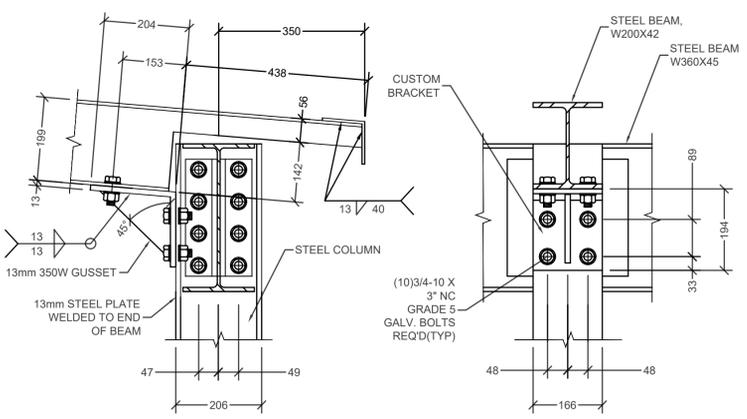
1 BRACING ELEVATION 1
 1 1/2" = 10"



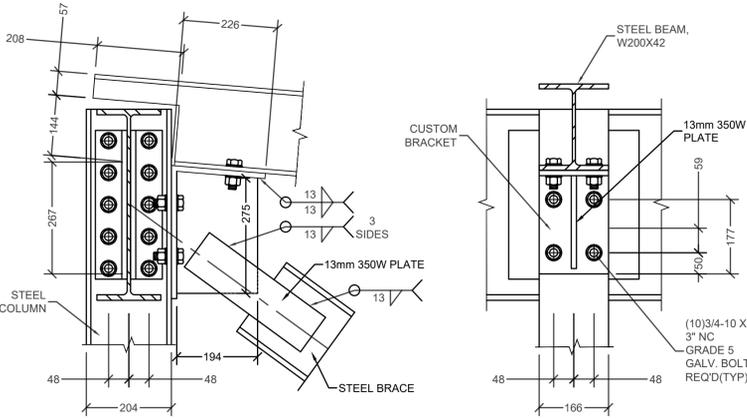
2 BRACING ELEVATION 2
 1 1/2" = 10"



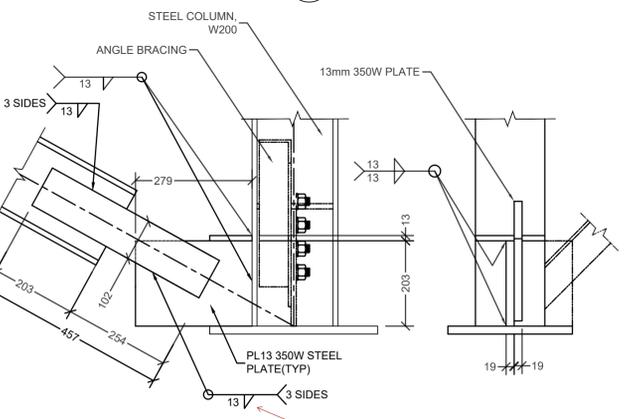
7 CONNECTION DETAIL 5
 1 1/2" = 10"



3 CONNECTION DETAIL 1
 1 1/2" = 10"

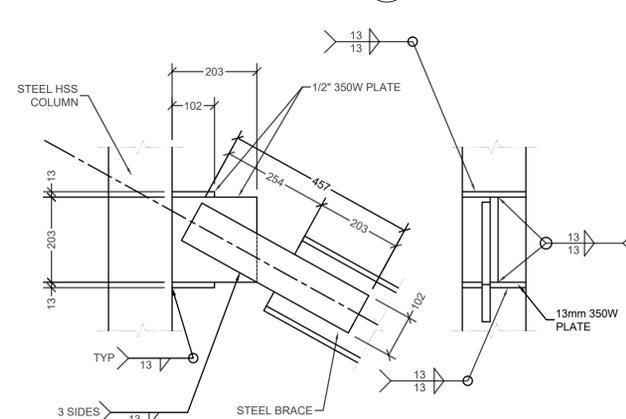


4 CONNECTION DETAIL 2
 1 1/2" = 10"



5 CONNECTION DETAIL 3
 1 1/2" = 10"

required length of weld?



6 CONNECTION DETAIL 4
 1 1/2" = 10"

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LOCATION:
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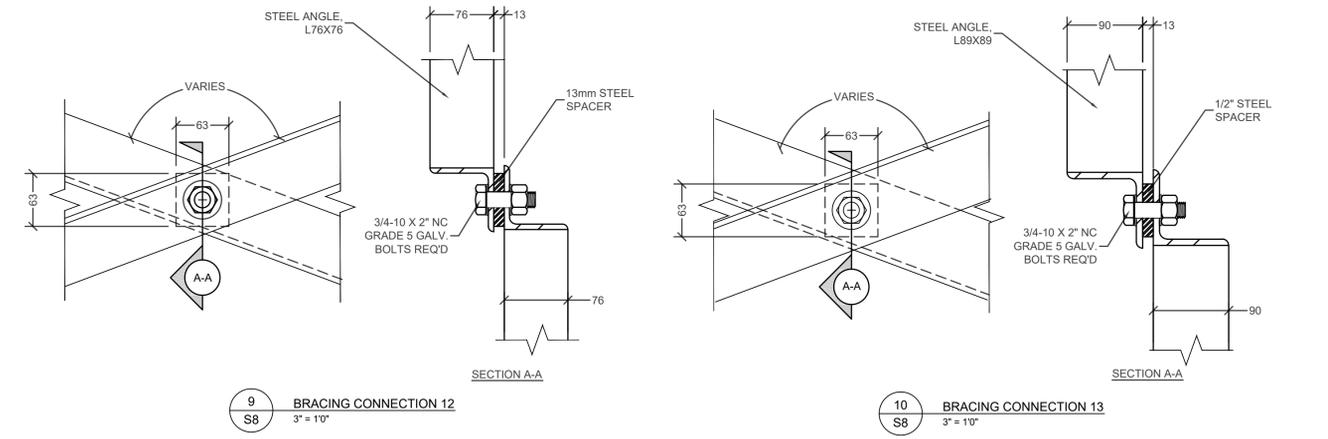
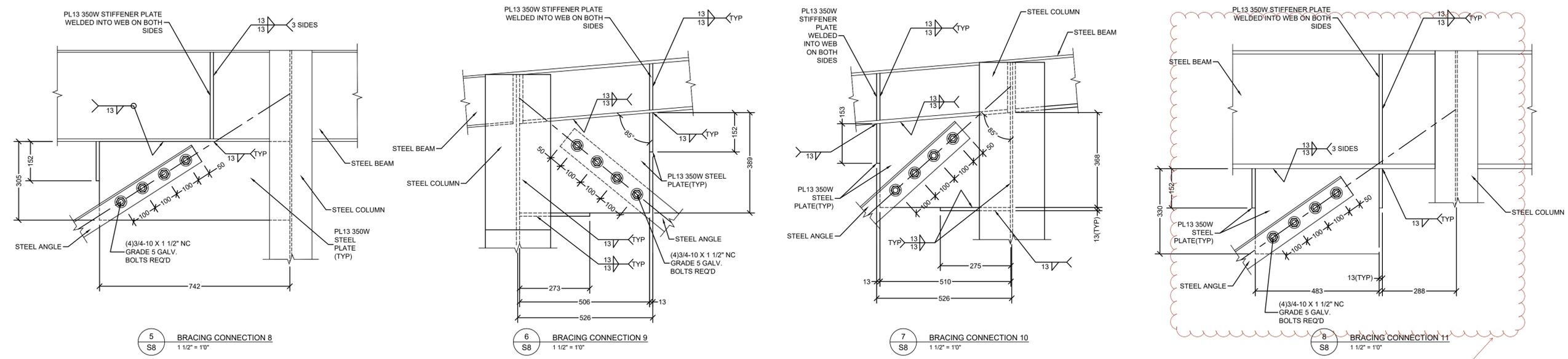
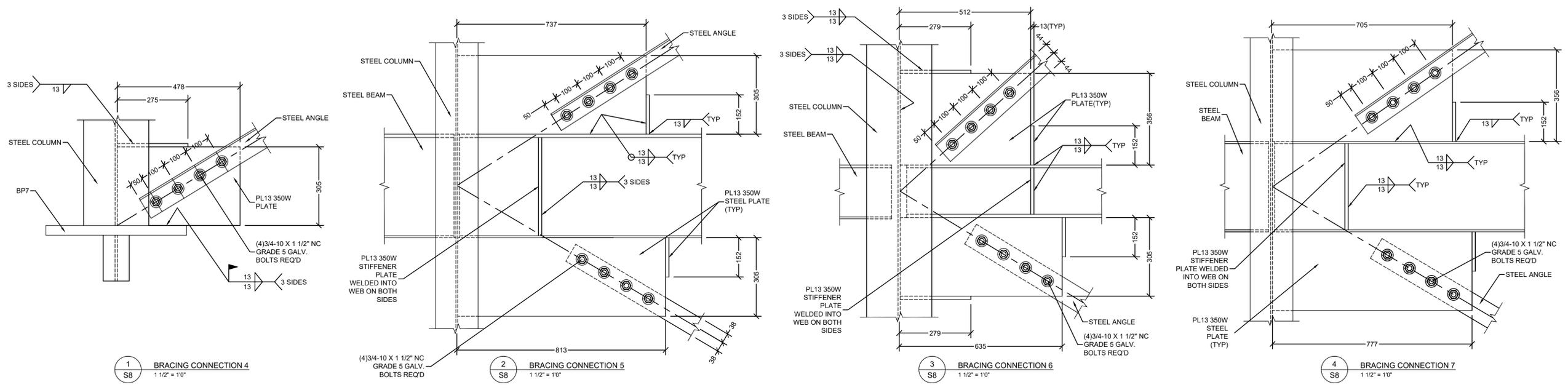
DRAWING:
 BRACING ELEVATIONS CONT. & DETAILS

REVIEWED BY:	SCALE	DRAWING No.
DEPT. NAME	AS SHOWN	S9
ARCH. N/A		
STR. ET, JM		
MEC. N/A		
ELE. N/A	DATE	
	FEB 12, 2018	
JOB #: 17201	SHEET: 9 OF 13	JOB#

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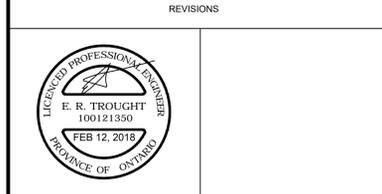
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check for brace pass through forces please

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LOCATION:
 KINGSTON, ONTARIO

FOR: PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

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 BRACING DETAILS

REVIEWED BY:	SCALE	DRAWING No.
DEPT. NAME	AS SHOWN	S8
ARCH. N/A		
STR. ET, JM		
MEC. N/A		
ELE. N/A		
JOB #: 17201	SHEET: 8 OF 13	JOB#

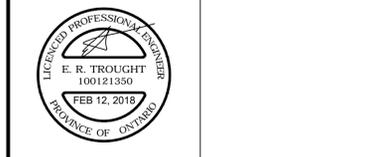
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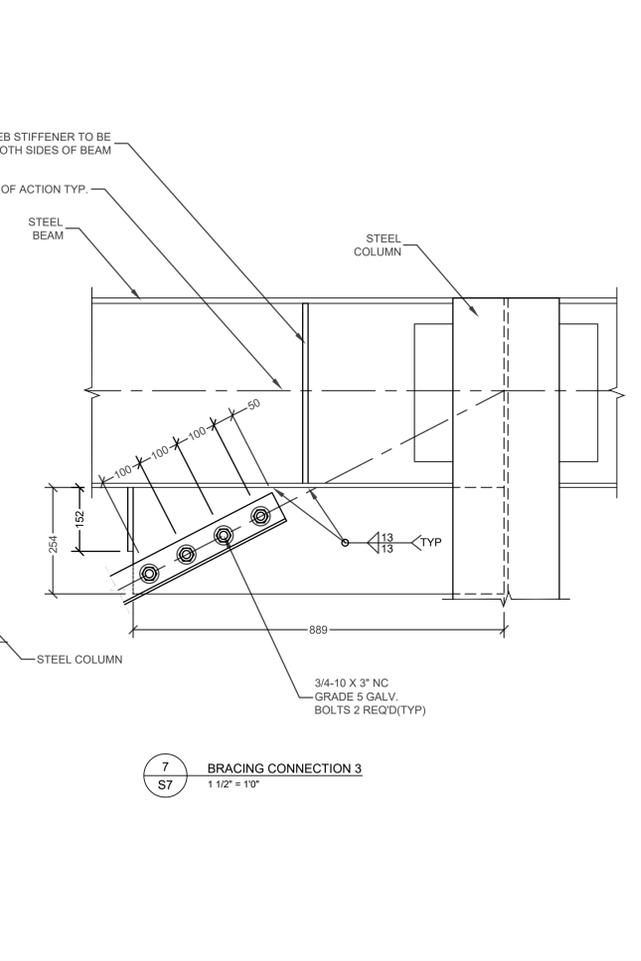
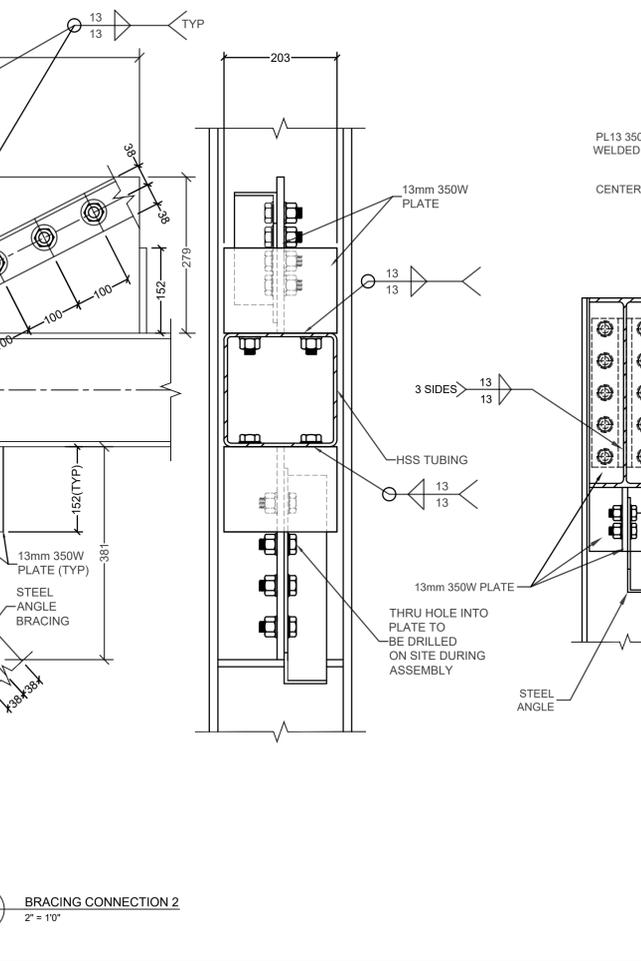
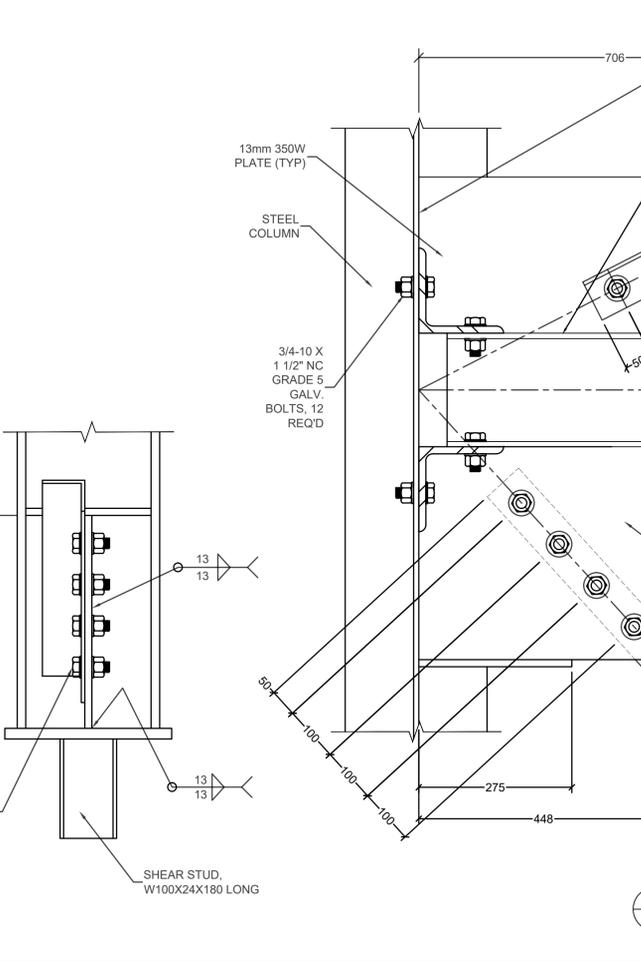
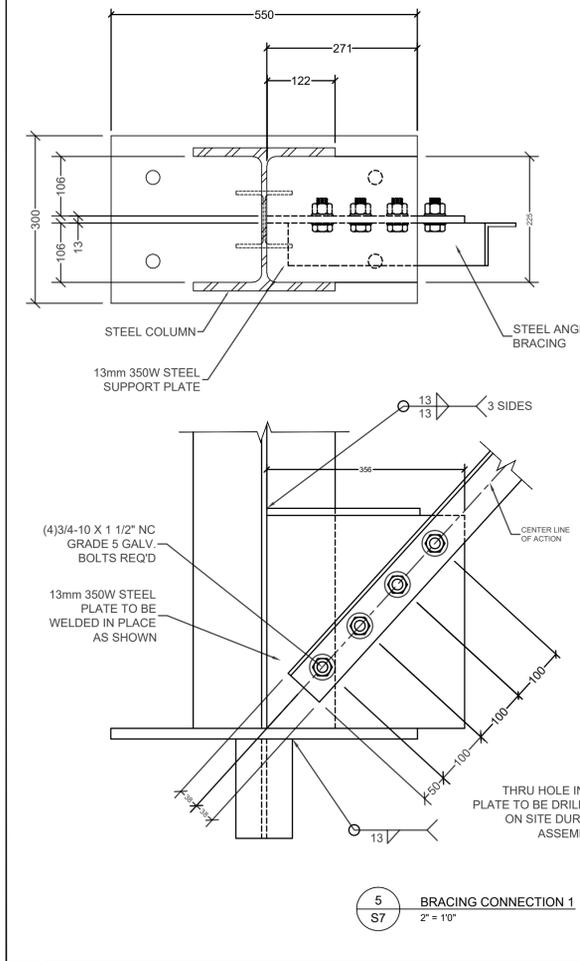
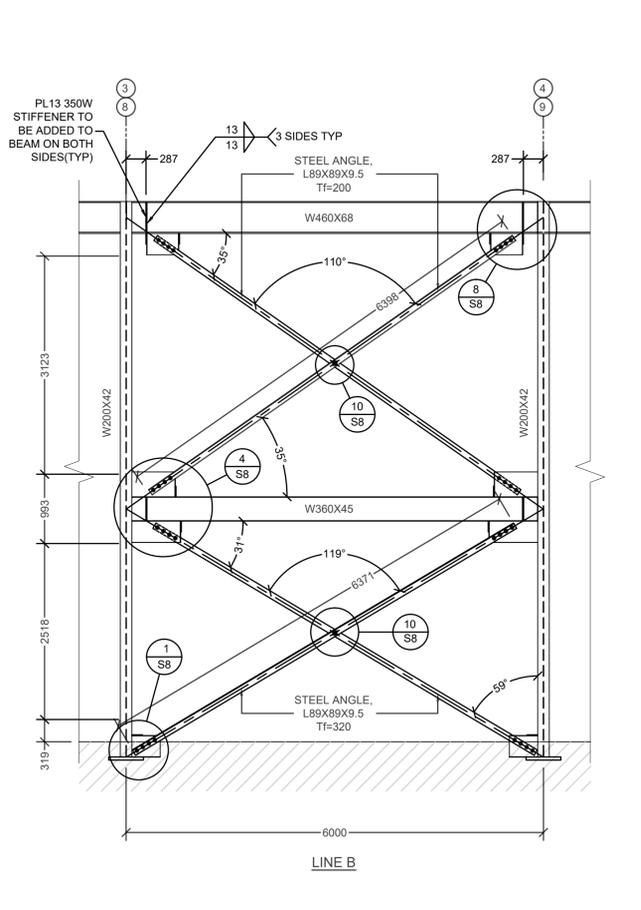
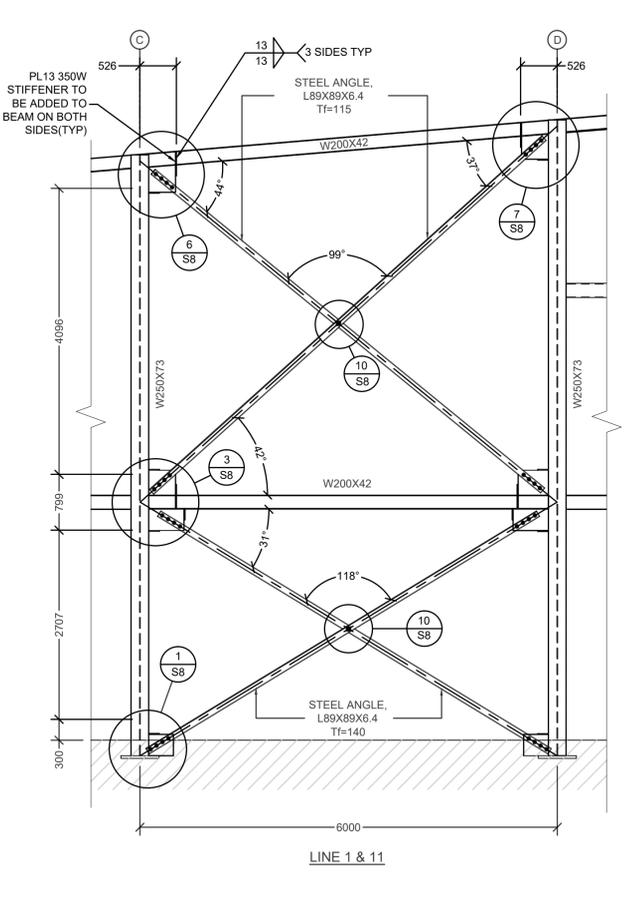
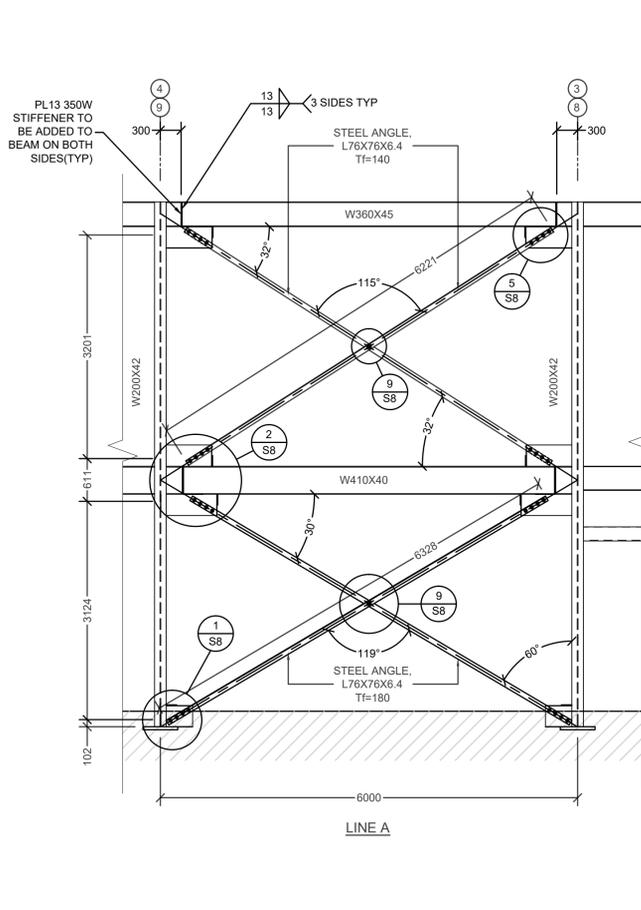
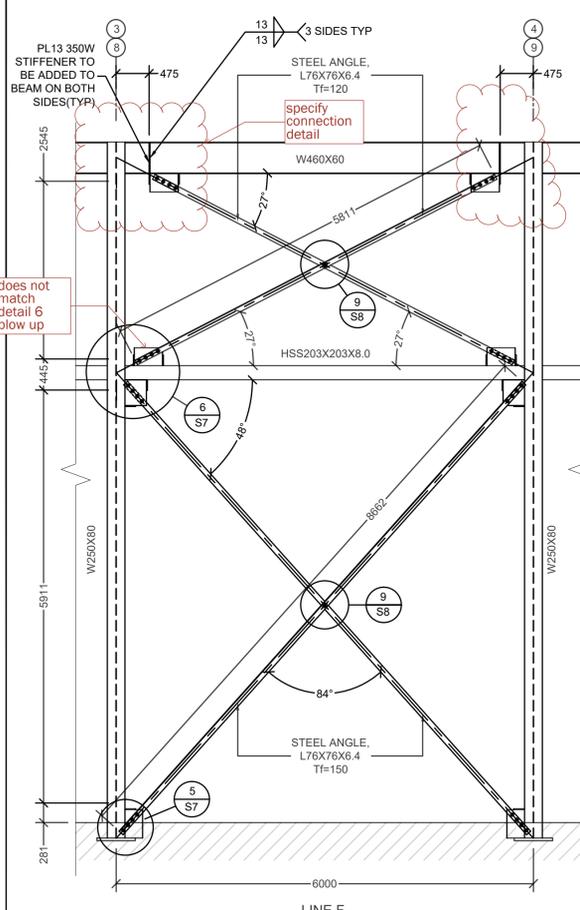
CSC MULTI-PURPOSE BUILDING
CBI MINIMUM INSTITUTION
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LOCATION:
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FOR: **PUBLIC WORKS AND GOVERNMENT SERVICES CANADA**

DRAWING:
BRACING ELEVATIONS & DETAILS

REVIEWED BY:	SCALE	DRAWING No.
DEPT. NAME	AS SHOWN	S7
ARCH. N/A		
STR. ET, JM	DATE	
MEC. N/A	FEB 12, 2018	
ELE. N/A		
JOB #: 17201	SHEET: 7 OF 13	JOB#



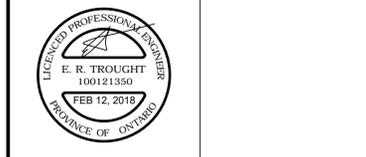
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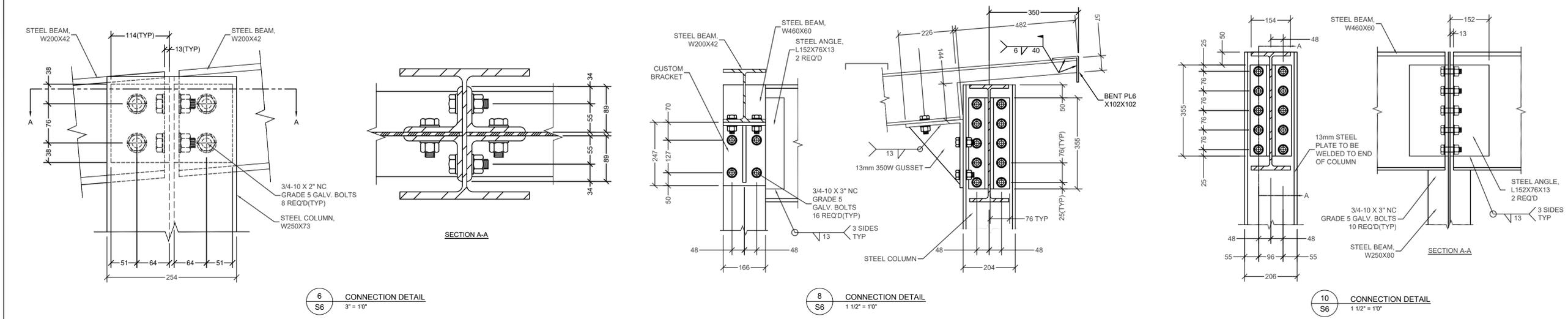
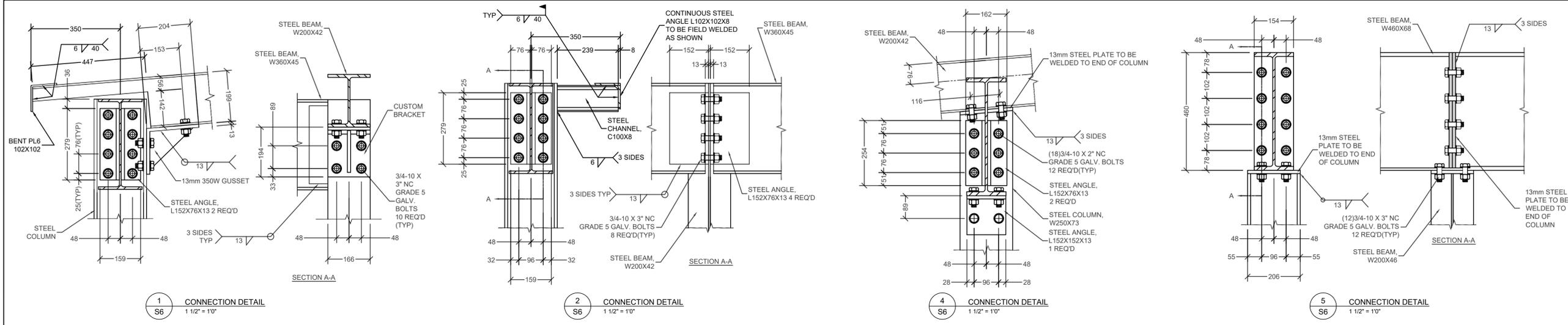
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 CBI MINIMUM INSTITUTION
 (FRONTENAC)**

LOCATION:
KINGSTON, ONTARIO

FOR: **PUBLIC WORKS AND GOVERNMENT SERVICES CANADA**

DRAWING:
**STRUCTURAL CONNECTION DETAILS
 PAGE 2**

REVIEWED BY:	SCALE	DRAWING No.
DEPT. NAME	AS SHOWN	S6
ARCH. N/A		
STR. ET, JM		
MEC. N/A		
ELE. N/A		
JOB #: 17201	SHEET: 6 OF 13	JOB#





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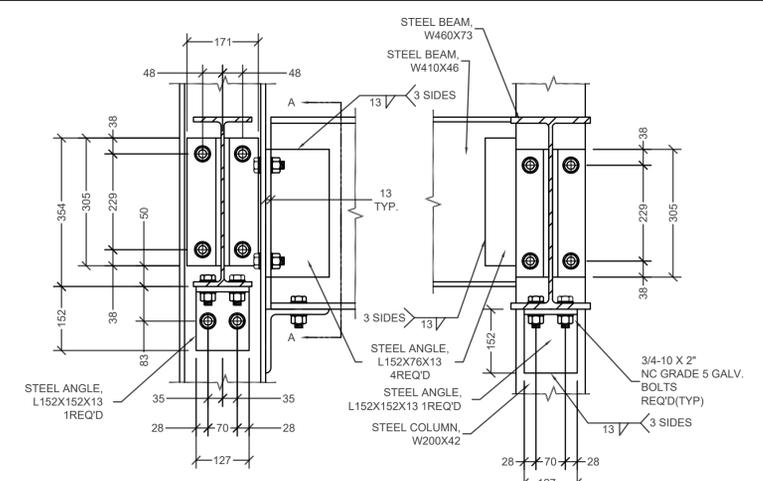
**CSC MULTI-PURPOSE BUILDING
 CBI MINIMUM INSTITUTION
 (FRONTENAC)**

LOCATION:
KINGSTON, ONTARIO

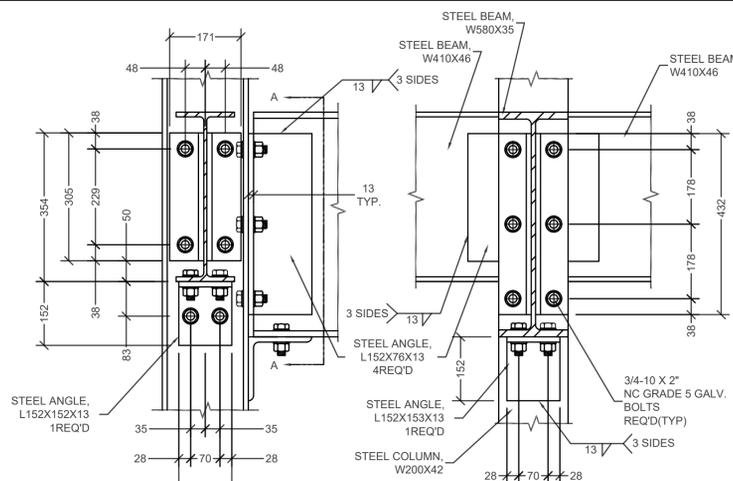
FOR: **PUBLIC WORKS AND GOVERNMENT SERVICES CANADA**

DRAWING:
**STRUCTURAL CONNECTION DETAILS
 PAGE 1**

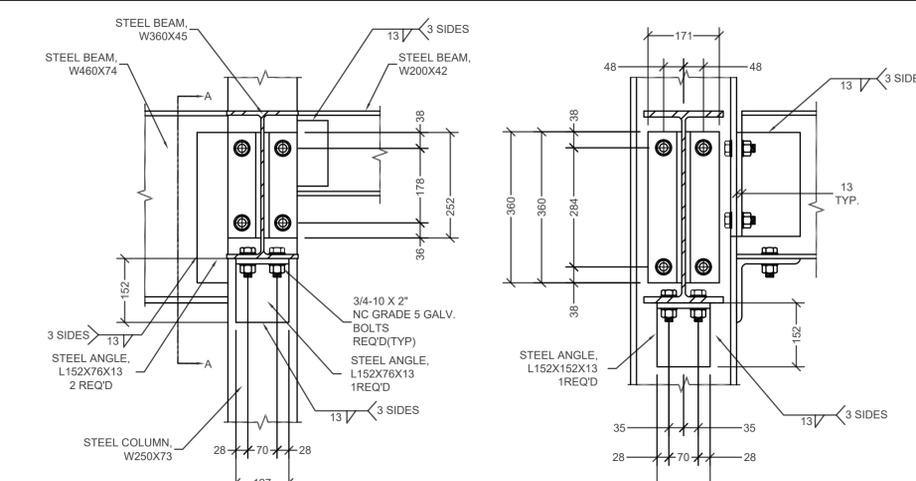
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ARCH. N/A		
STR. ET, JM	DATE	
MEC. N/A	FEB 12, 2018	
ELE. N/A		
JOB #: 17201	SHEET: 5 OF 13	JOB#



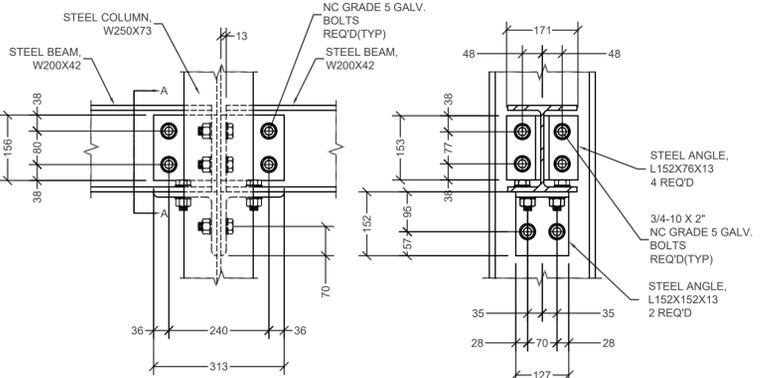
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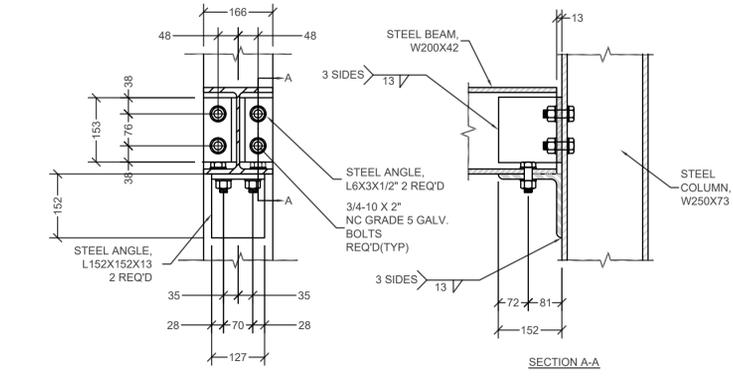
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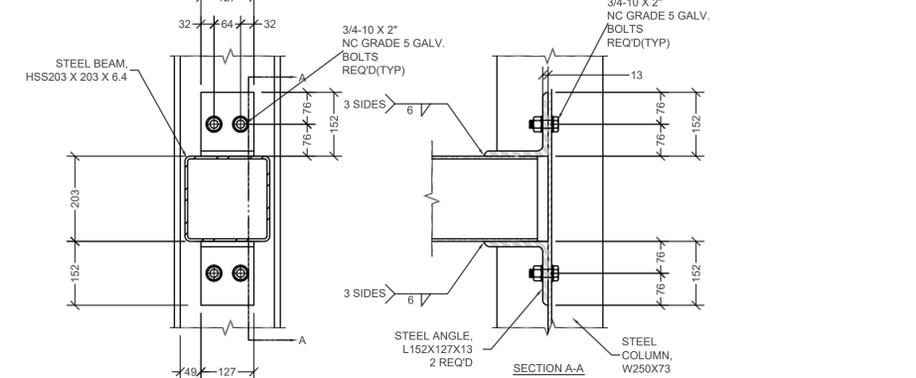
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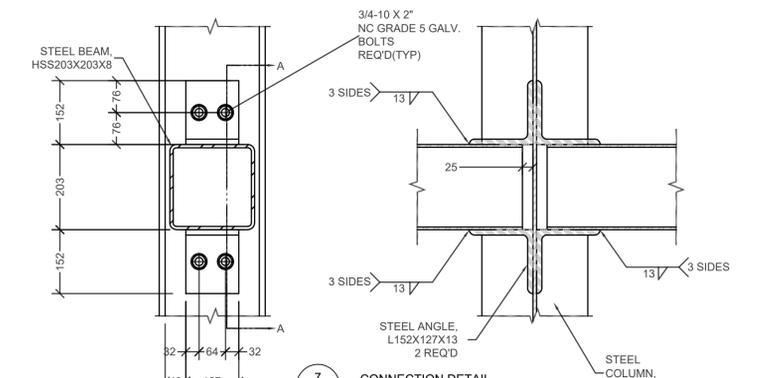
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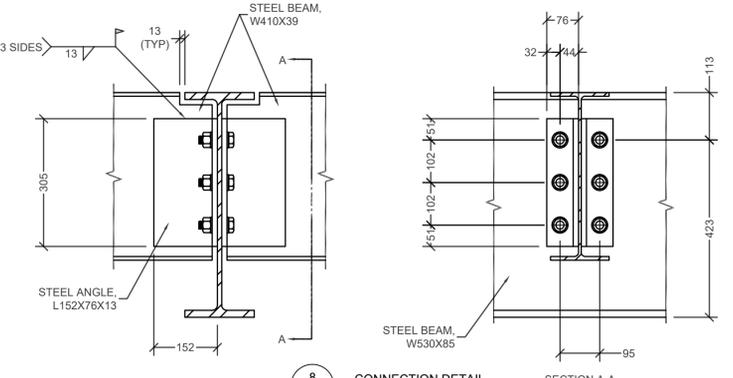
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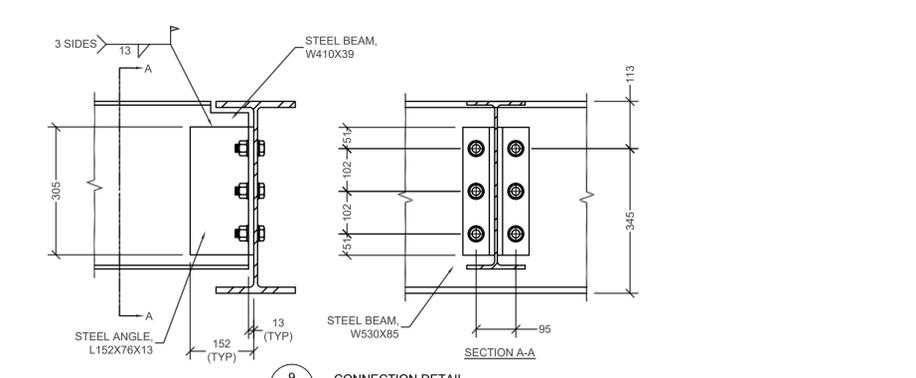
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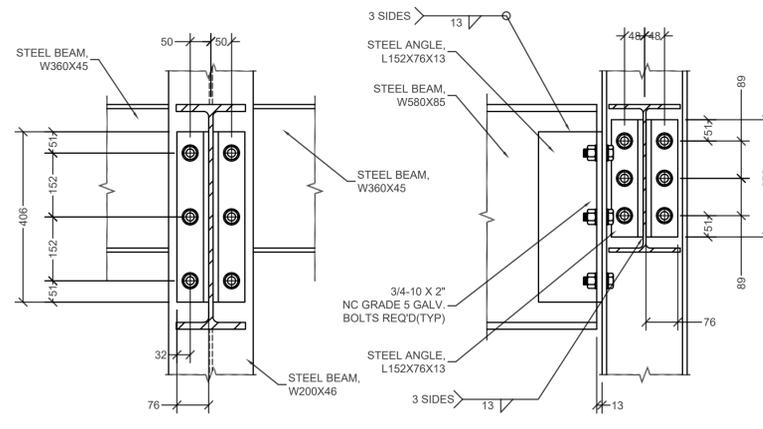
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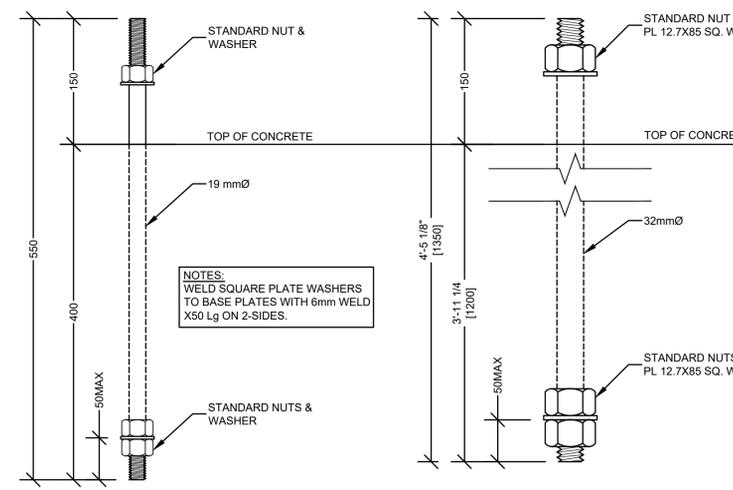
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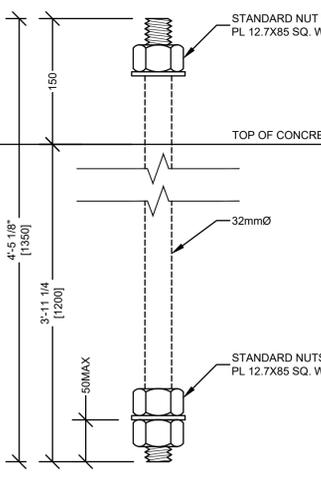
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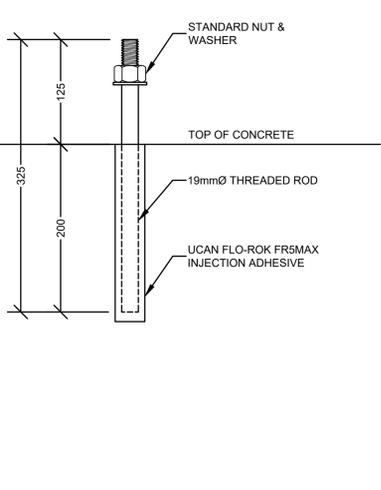
10 CONNECTION DETAIL
 S5 1 1/2" = 1'0"



11 ANCHOR BOLT DETAILS - AR1
 S5 NTS



12 ANCHOR BOLT DETAILS - AR2
 S5 NTS



13 ANCHOR BOLT DETAILS - AR3
 S5 NTS

NOTES:
 WELD SQUARE PLATE WASHERS
 TO BASE PLATES WITH 6mm WELD
 X50 Lg ON 2-SIDES.

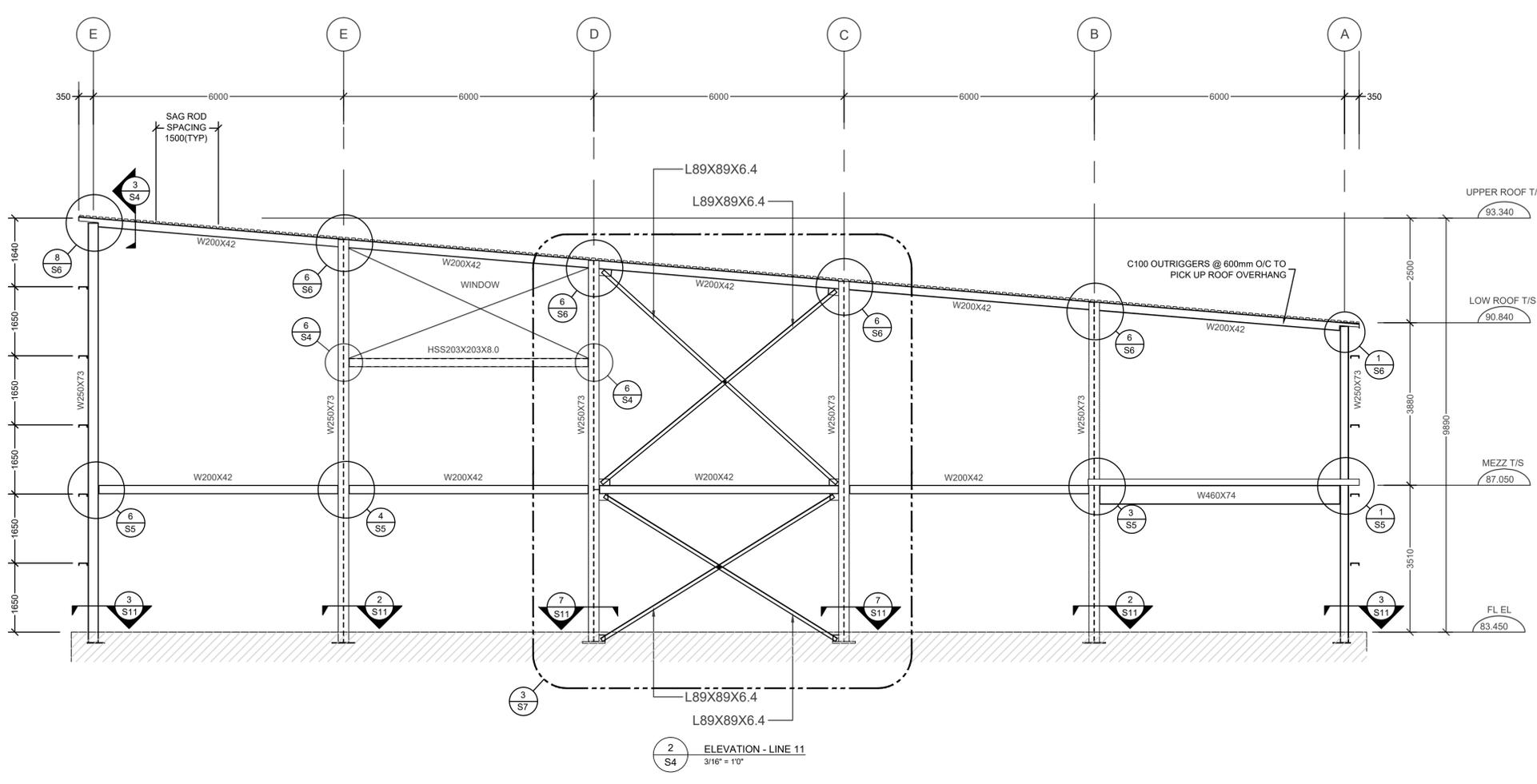
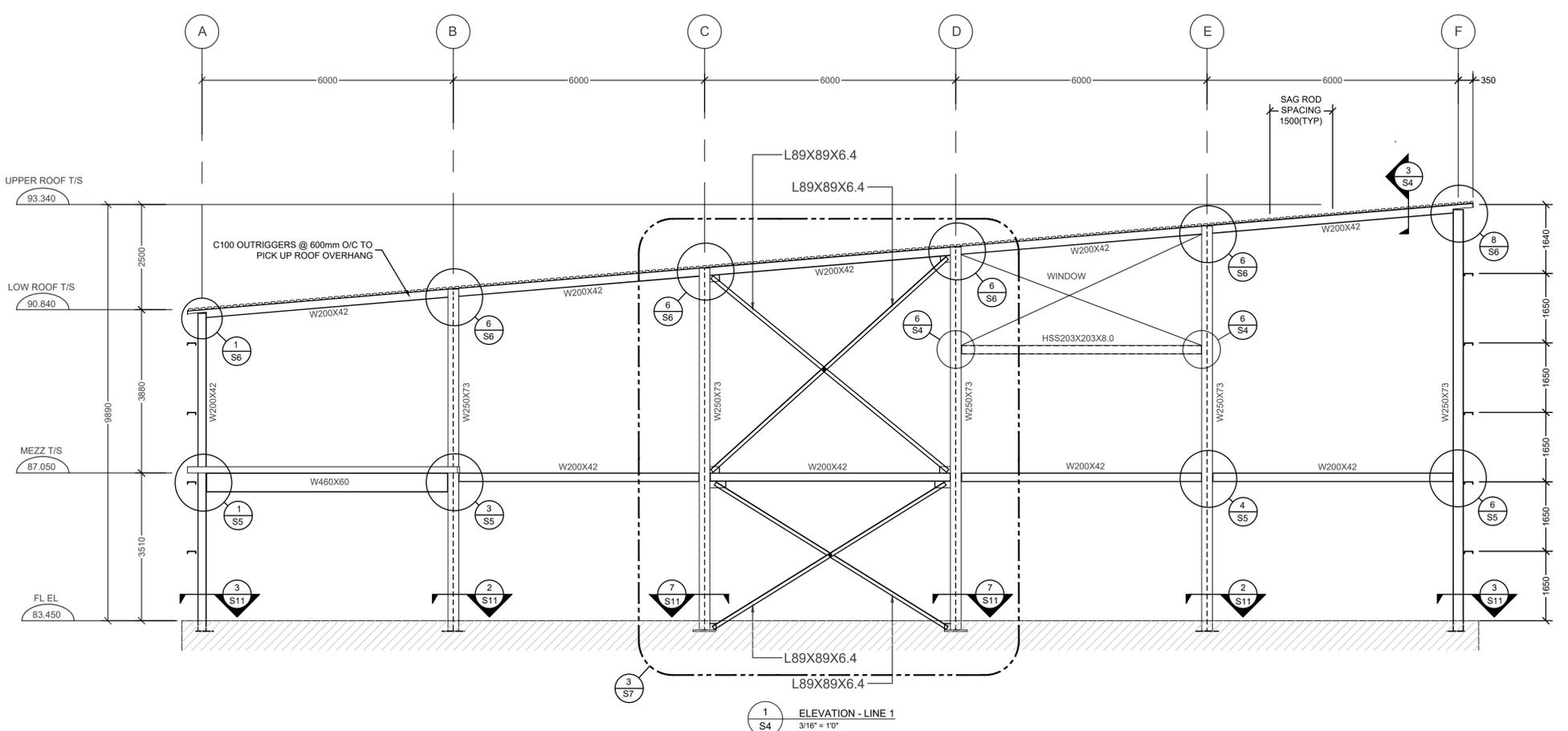
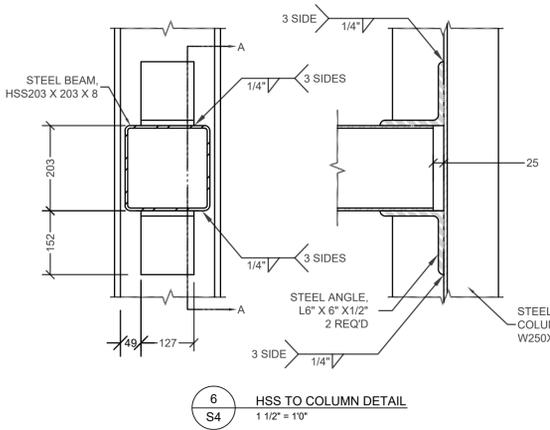
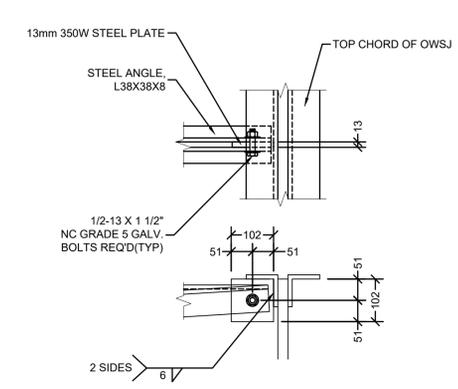
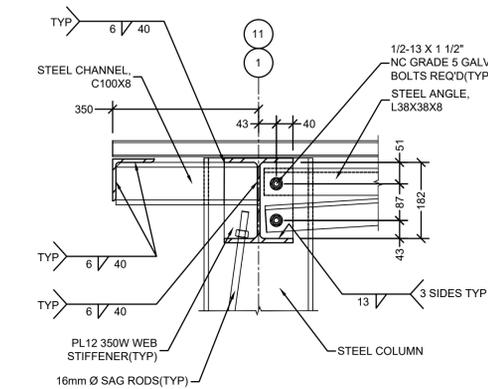
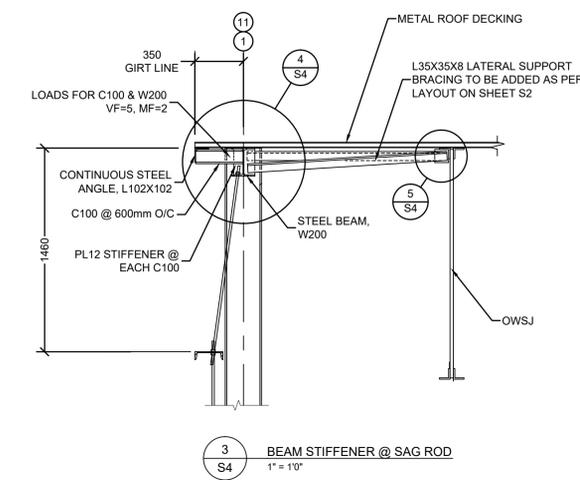


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STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL (EXCEPT JOISTS) SHALL BE TO CSA SPECIFICATIONS G40.20/G40.21-91, M300W FOR ANGLES, CHANNELS, PLATES AND "S" SECTIONS AND M350W FOR "HSS" AND "WF" MEMBERS. STEEL SPECIFICATIONS FOR JOISTS MAY VARY AT THE DISCRETION OF THE JOIST DESIGNER.
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7. CHECK ALL DIMENSIONS ON STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS. REPORT ANY INCONSISTENCIES BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THESE DRAWINGS.
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No.	DATE	DESCRIPTION	BY
1	10/26/17	MINOR CHANGES TO WELDING	JNM
2	11/24/17	UPDATED DRAWS TO REFLECT BP8 & BP9	JNM
3	11/29/17	UPDATED TO REFLECT CONSULTANT REVIEW	JNM
4	02/12/18	UPDATED TO REFLECT CONSULTANT REVIEW	JNM

REVISIONS



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CSC MULTI-PURPOSE BUILDING CBI MINIMUM INSTITUTION (FRONTENAC)

LOCATION: KINGSTON, ONTARIO
 FOR: PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

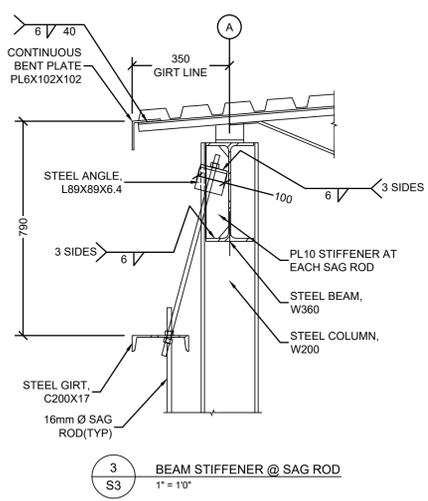
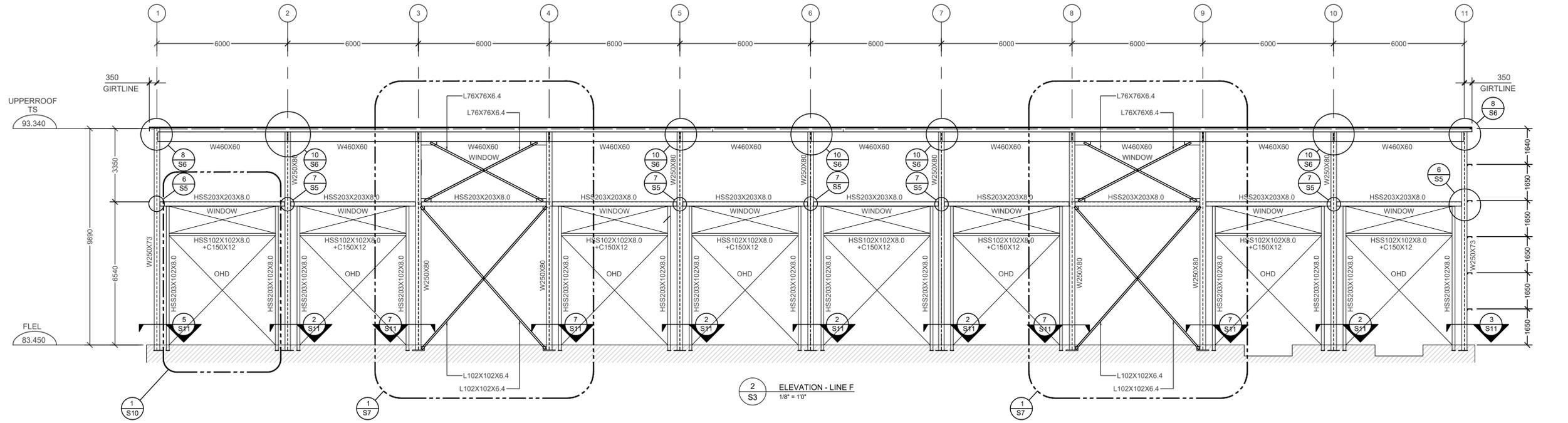
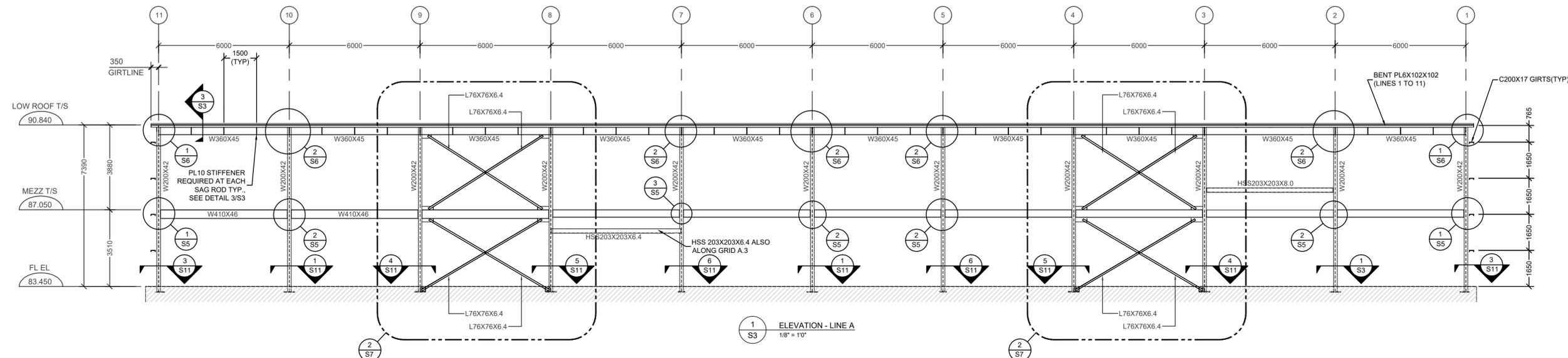
DRAWING: STRUCTURAL ELEVATIONS & BASE PLATE DETAILS

REVIEWED BY:	SCALE	DRAWING No.
DEPT. NAME	AS SHOWN	S4
ARCH. N/A		
STR. ET, JM	DATE	
MEC. N/A	FEB 12, 2018	
ELE. N/A		
JOB #: 17201	SHEET: 4 OF 13	JOB#

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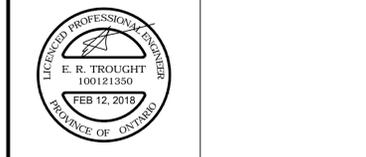
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LOCATION:
KINGSTON, ONTARIO

FOR: **PUBLIC WORKS AND GOVERNMENT SERVICES CANADA**

DRAWING:
STRUCTURAL ELEVATIONS & BASE PLATE DETAILS

REVIEWED BY:	SCALE	DRAWING No.
DEPT. NAME	AS SHOWN	S3
ARCH. N/A		
STR. ET, JM		
MEC. N/A		
ELE. N/A	DATE	FEB 12, 2018
JOB #: 17201	SHEET: 3 OF 13	JOB#

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LOCATION: KINGSTON, ONTARIO

FOR: PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

ROOF STRUCTURAL PLAN VIEW

REVIEWED BY:	SCALE	DRAWING No.
DEPT. NAME	1/8" = 1'-0"	S2
ARCH. N/A	DATE	
STR. ET, JM	FEB 12, 2018	
MEC. N/A		
ELE. N/A		
JOB #: 17201	SHEET: 2 OF 13	JOB#

