



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

PARKING DECK STRUCTURE REPAIR
SIR HUMPHREY GILBERT BLDG
165 DUCKWORTH ST.
ST. JOHN'S
NEWFOUNDLAND LABRADOR

PROJECT NO. BGIS GOC388581

Canada

GENERAL NOTES:

- 1. DO NOT SCALE DRAWINGS.
- 2. ALL DIMENSIONS IN MILLIMETERS U/N.
- 3. CHECK ALL STRUCTURAL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO STARTING ANY CONSTRUCTION. OWNER/CONTRACTOR TO COORDINATE ALL DETAILS AND DIMENSIONS WITH A/M/E DRAWINGS.
- 4. CONTRACTOR TO VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THIS WORK.
- 5. ALL WORK TO BE DONE IN A QUALITY SAFE MANNER IN ACCORDANCE WITH ALL FEDERAL, PROVINCIAL AND MUNICIPAL REGULATIONS.
- 6. ALL THIRD PARTY PRODUCTS SHALL BE INSTALLED IN STRICT ADHERENCE TO MANUFACTURER'S SPECIFICATIONS. CONTRACTOR TO OBTAIN ANY TRAINING REQUIRED BY MANUFACTURER PRIOR TO INSTALLATION.
- 7. ALL STRUCTURAL STEEL TO BE CLEANED OF RUST, PRIMED AND REPAINTED.

INSTALLATION NOTES:

- 1. CONFIRM ALL DIMENSIONS ON SITE.
- 2. ALL STRUCTURAL STEEL SHALL BE CSA-G40.21-350W.
- 3. ALL GRATING 25mm x 3.2mm (1" x 1/8") GALVANIZED.
- 4. ALL P1 TO BE CONNECTED TO EXISTING I GIRDER BY PENETRATING EXISTING ROOF SYSTEM AND WELDING TO TOP FLANGE. MAKE GOOD ALL ROOFING PENETRATIONS. ROOF WORK BY QUALIFIED ROOFING CONTRACTOR.
- 5. PROVIDE ELECTRICAL SERVICE OUTLET (1 X 230V @ 20A) AT LOCATION T.B.D.
- 6. PROVIDE ROOF MOUNTED WAVEGUIDE BRIDGE (NON-PENETRATING) FROM PLATFORM TO PENTHOUSE WALL. PROVIDE DUCT INTO INTERIOR TO RUN WAVEGUIDE INSIDE TO INTERIOR RADAR EQUIPMENT.
- 7. CONTRACTOR TO PRODUCE FABRICATION SHOP DRAWINGS OF THE NEW 1000mm HIGH PEDESTAL AND PROVIDE TO CCG AND TEI PRIOR TO FABRICATION FOR APPROVAL.

ABBREVIATIONS

AFF = ABOVE FINISHED FLOOR
ARCH = ARCHITECTURAL
B/B = BACK TO BACK
B/O = BOTTOM OF
B/S = BOTH SIDES
B/W = BOTH WAYS
BOT = BOTTOM
BLDG = BUILDING
BU = BUILT UP
CL = CENTERLINE
C/C = CENTER TO CENTER
C/W = COMPLETE WITH
CJ = CONTROL JOINT
COJ = CONFIRM ON JOB
COL = COLUMN
CONC = CONCRETE
CONT = CONTINUOUS
DET = DETAIL
DIM = DIMENSION
DL = DEAD LOAD
DWG = DRAWING
EA = EACH
ELEV = ELEVATION
E/F = EACH FACE
EJ = EXPANSION JOINT
EQ = EQUAL
E/S = EACH SIDE
E/W = EACH WAY
EXIST = EXISTING
EXT = EXTERIOR
FD = FLOOR DRAIN
FDN = FOUNDATION
FF = FINISH FLOOR
FL = FLOOR
F/O = FACE OF
FMC = FULL MOMENT CONNECTION
FTG = FOOTING
GALV = GALVANIZED
HDG = HOT DIP GALVANIZED
HORIZ = HORIZONTAL
I/F = INSIDE FACE
INT = INTERIOR
LL = LIVE LOAD
LLH = LONG LEG HORIZONTAL
LLV = LONG LEG VERTICAL

MAX = MAXIMUM
Mw = MOMENT CONNECTION
MECH = MECHANICAL
MIN = MINIMUM
N/A = NOT APPLICABLE
NBC = NATIONAL BUILDING CODE
NIC = NOT IN CONTRACT
NTS = NOT TO SCALE
O/C = OUTSIDE TO CENTER
OD = OUTSIDE DIAMETER
O/F = OUTSIDE FACE
O/O = OUTSIDE TO OUTSIDE
OPNG = OPENING
OWSJ = OPEN WEB STEEL JOIST
PT = PRESERVATIVE TREATED
P/W = PLYWOOD
RD = ROOF DRAIN
REINF = REINFORCING
REQD = REQUIRED
RO = ROUGH OPENING
SIM = SIMILAR
SPEC = SPECIFICATION
SS = STAINLESS STEEL
STD = STANDARD
STRUCT = STRUCTURAL
SWL = SAFE WORKING LOAD
T&G = TONGUE AND GROOVE
T/O = TOP OF
TOC = TOP OF CONCRETE
TOP = TOP OF PIER
TOS = TOP OF STEEL
TOW = TOP OF WALL
TYP = TYPICAL
U/N = UNLESS NOTED
UNO = UNLESS NOTED OTHERWISE
U/S = UNDERSIDE
VB = VAPOUR BARRIER
VERT = VERTICAL
WL = WIND LOAD
WWF = WELDED WIRE FABRIC
WWM = WELDED WIRE MESH



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Coast Guard



R2	ISSUED FOR CONSTRUCTION	11/12/2020
R1	ISSUED FOR CONSTRUCTION	07/24/2020
R0	ISSUED FOR REVIEW	07/16/2020
revisions		date

project

projet

CCG RADAR ROOF MOUNT
SIR HUMPHREY GILBERT BLDG
165 DUCKWORTH ST.
ST. JOHN'S
NEWFOUNDLAND LABRADOR

drawing

dessin

NOTES

designed	R. TILLER / J. WALSH	conçu
date	2020-NOV-12	
drawn	J. DOYLE	dessiné
date	2020-NOV-12	
approved	J. WALSH	approuvé
date	2020-NOV-12	

Tender

Soumission

PWGSC Project Manager

Administrateur de projets TPSGC

project number

no. du projet

CCG F6839-205503

drawing no.

no. du dessin

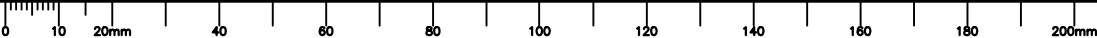
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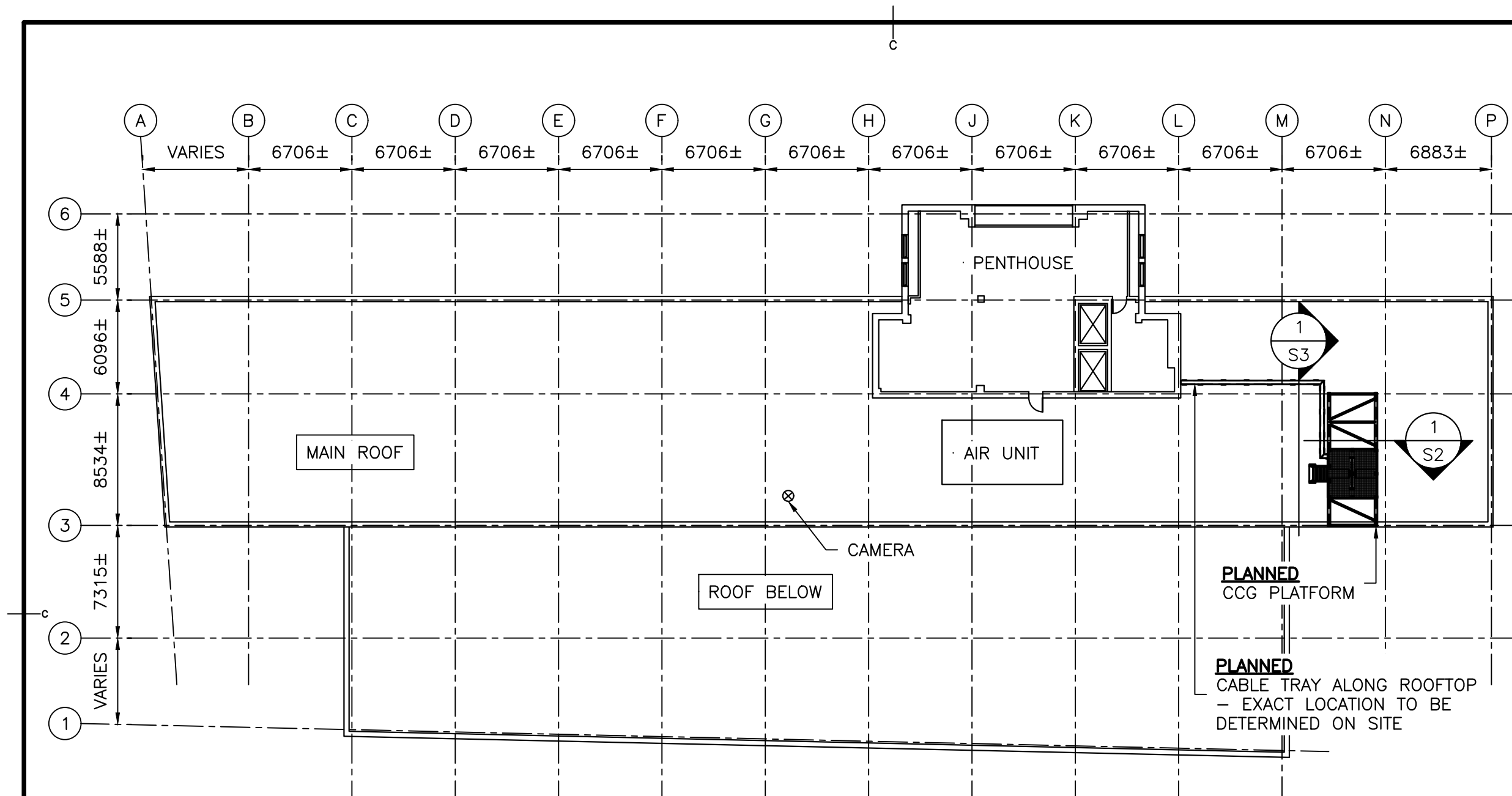
PROVINCE OF NEWFOUNDLAND AND LABRADOR

PEG
Newfoundland
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SIR HUMPHREY GILBERT BUILDING – PLAN VIEW

1:300

1
S1

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S1



revisions	project	date
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SECTION

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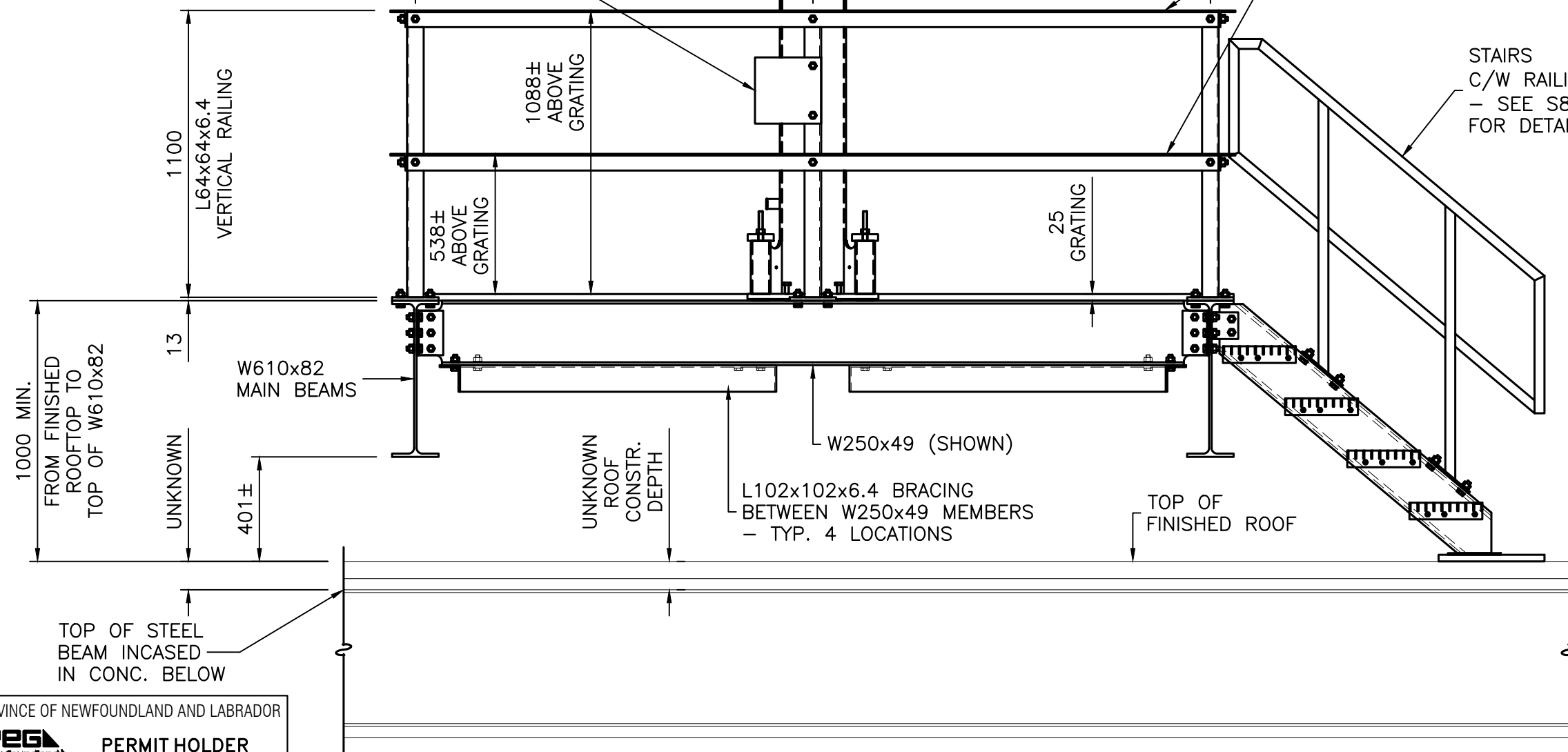
S2

254x254x6.4 PLATE BOLTED
 WITH 16mmØ A325 BOLTS TO
 VERTICAL ANGLE FOR 230V @
 20A OUTLET INSTALLATION
 - THIS LOCATION ONLY
 (1 TOTAL LOCATION)
 - INSTALL AS PER OUTLET
 MANUFACTURER INSTALLATION
 INSTRUCTIONS/GUIDE
 - INSTALL ELECTRICAL CABLE
 ALONG NEW CABLE TRAY TO
 OUTLET LOCATION

NEW 7' RADAR
 C/W 1500mm PEDESTAL

L64x64x6.4 TOP
 AND MID RAILINGS
 - BOLT TO VERTICALS
 WITH 16mmØ A325 BOLTS

STAIRS
 C/W RAILING
 - SEE S8/S9
 FOR DETAILS



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SECTION

1:20

1
 S2



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ELEVATION

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drawn J. DOYLE dessiné
date 2020-NOV-12

approved J. WALSH approuvé
date 2020-NOV-12

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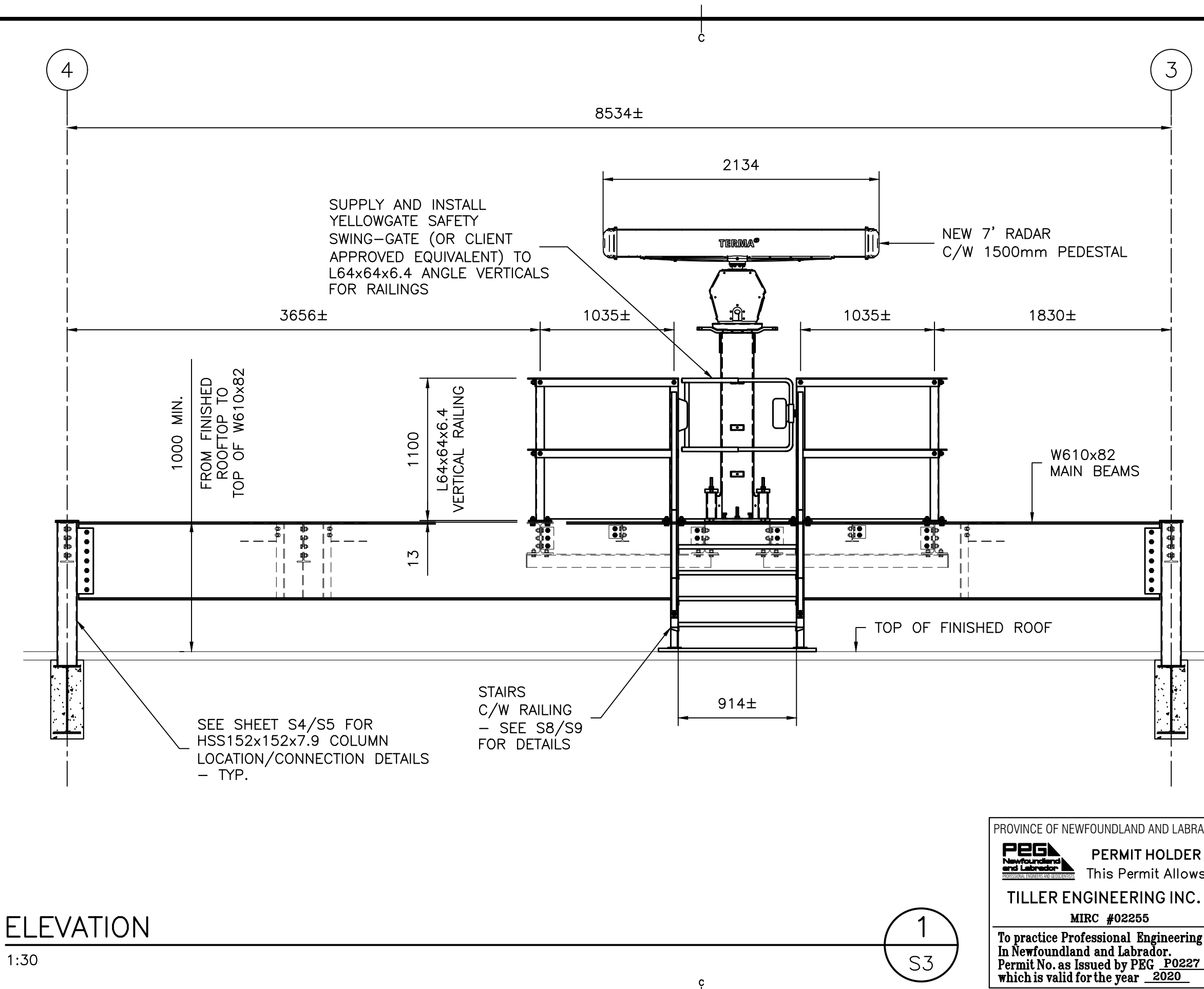
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S3

ELEVATION

1:30



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PLANNED
HSS152x152x7.9
VERTICAL CONNECTED TO
EXISTING 21" GIRDER INCASED
IN CONC. BELOW
- TYP. 4 LOCATIONS
- INSTALL 3048mm (10') APART
AND AVOID OWSJ CONNECTION
LOCATIONS TO EXISTING 21" GIRDER
INCASED IN CONC. BELOW
- REMOVE ANY CONC. ABOVE TOP
OF GIRDER (IF APPLICABLE) PRIOR
TO WELDING HSS TO GIRDER.

EXISTING
COLUMN
- TYP.

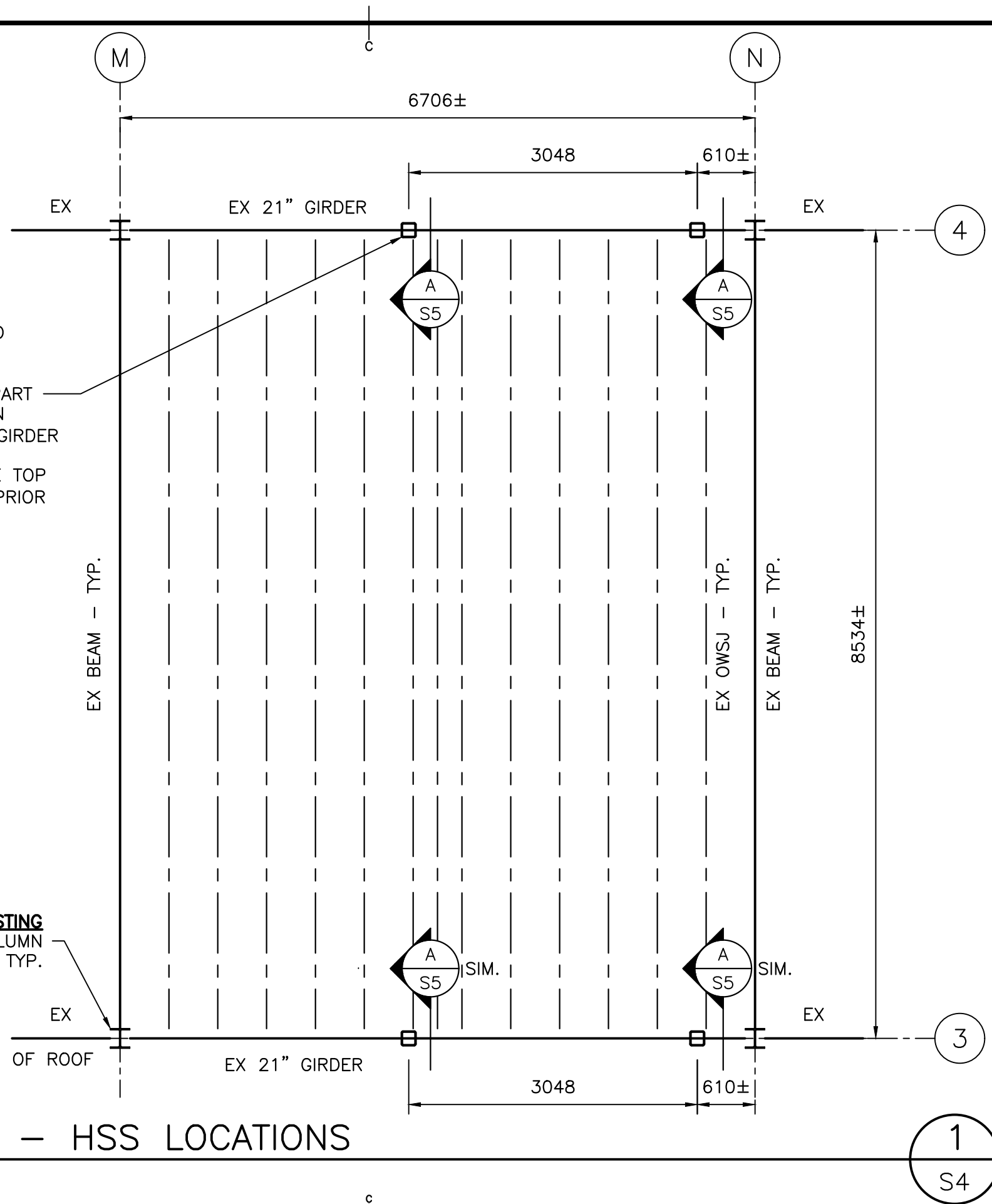
PLAN VIEW - HSS LOCATIONS

1:50

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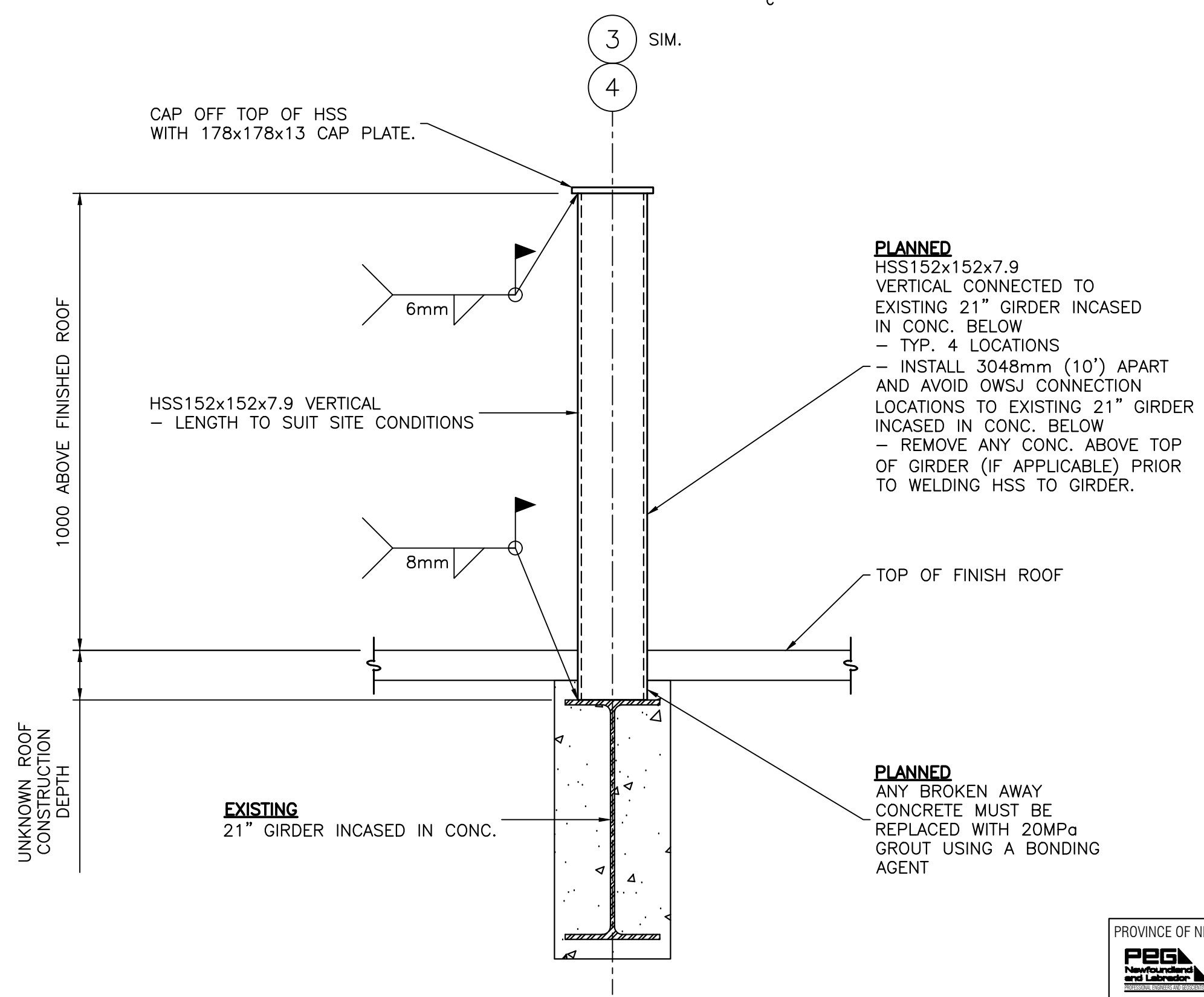
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HSS CONNECTION
LOCATIONS PLAN

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PWGC Project Manager	Administrateur de projets TPSGC	
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	S4	



CAP OFF TOP OF HSS
WITH 178x178x13 CAP PLATE.

1000 ABOVE FINISHED ROOF

UNKNOWN ROOF
CONSTRUCTION
DEPTH

HSS152x152x7.9 VERTICAL
- LENGTH TO SUIT SITE CONDITIONS

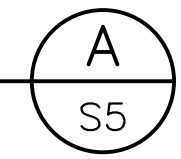
EXISTING
21" GIRDER INCASED IN CONC.

PLANNED
HSS152x152x7.9
VERTICAL CONNECTED TO
EXISTING 21" GIRDER INCASED
IN CONC. BELOW
- TYP. 4 LOCATIONS
- INSTALL 3048mm (10') APART
AND AVOID OWSJ CONNECTION
LOCATIONS TO EXISTING 21" GIRDER
INCASED IN CONC. BELOW
- REMOVE ANY CONC. ABOVE TOP
OF GIRDER (IF APPLICABLE) PRIOR
TO WELDING HSS TO GIRDER.

PLANNED
ANY BROKEN AWAY
CONCRETE MUST BE
REPLACED WITH 20MPa
GROUT USING A BONDING
AGENT

TOP OF FINISH ROOF

DETAIL - HSS CONNECTION
1:10



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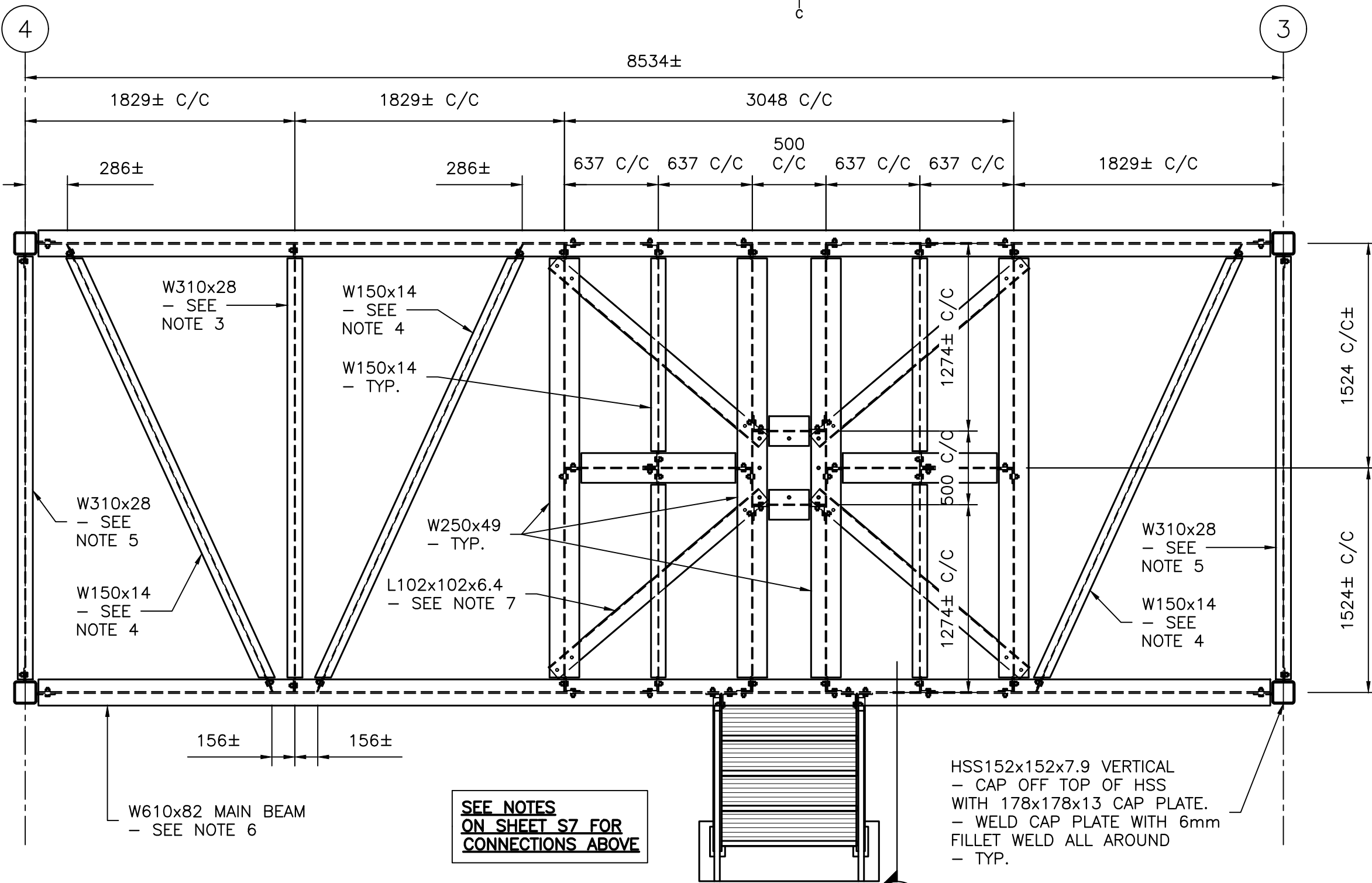
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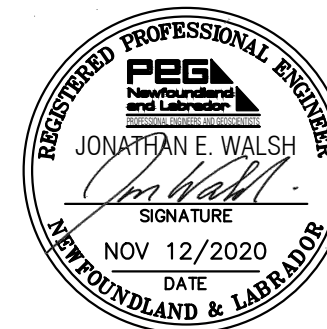
**HSS CONNECTION
DETAIL**

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	S5	



PLAN VIEW – PLATFORM FRAMING

1:30



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drawing dessin

PLATFORM FRAMING
(1 OF 2)

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S6

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CONNECTION DETAIL NOTES (READ IN CONJUNCTION WITH SHEET S6)

NOTE 1:

- BEAM TO BEAM CONNECTIONS TO BE L102x102x6.4 C/W 16mmØ A325 BOLT ASS'Y
- AMOUNT OF 16mmØ BOLT ASS'Y VARIES
 - TYP. U.N.O ABOVE

NOTE 2:

ALL TOP OF STEEL MEMERS (W250x49, W150x14 AND W310X28) TO BE LEVEL WITH TOP OF W610x82 MAIN BEAMS

NOTE 3:

- BOLT TO 6.4mm THICK VERTICAL PLATE BETWEEN TOP AND BOTTOM OF W610x82 FLANGE
- WELD PLATE TO W610x82 FLANGE AND WEB WITH 6mm FILLET WELD ALL AROUND
- BOLT WITH 16mmØ A325 BOLT ASS'Y

NOTE 4:

- BOLT TO 6.4mm THICK VERTICAL PLATE (ANGLED) BETWEEN TOP AND BOTTOM OF W610x82 FLANGE
- WELD PLATE TO W610x82 FLANGE AND WEB WITH 6mm FILLET WELD ALL AROUND
- BOLT WITH 16mmØ A325 BOLT ASS'Y
- TYP.

NOTE 5:

- BOLT TO 6.4mm THICK VERTICAL PLATE WELDED TO HSS152x152x7.9
- WELD PLATE TO HSS152x152x7.9 WITH 6mm FILLET WELD ALL AROUND
- BOLT WITH 16mmØ A325 BOLT ASS'Y

NOTE 6:

- BOLT TO 9.5mm THICK VERTICAL PLATE ALONG VERTICAL HSS152x152x7.9
- WELD CONNECTION PLATE TO HSS WITH 6mm FILLET WELD ALL AROUND
- BOLT WITH 16mmØ A325 BOLT ASS'Y
- TYP.

NOTE 7:

- INSTALL BETWEEN BOTTOM FLANGES OF W250x49
- BOLT WITH 16mmØ A325 BOLTS
- 2 BOLTS PER FLANGE E/E
- TYP. 4 LOCATIONS



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PLATFORM FRAMING
(2 OF 2)

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STAIR DETAILS (1 OF 2)

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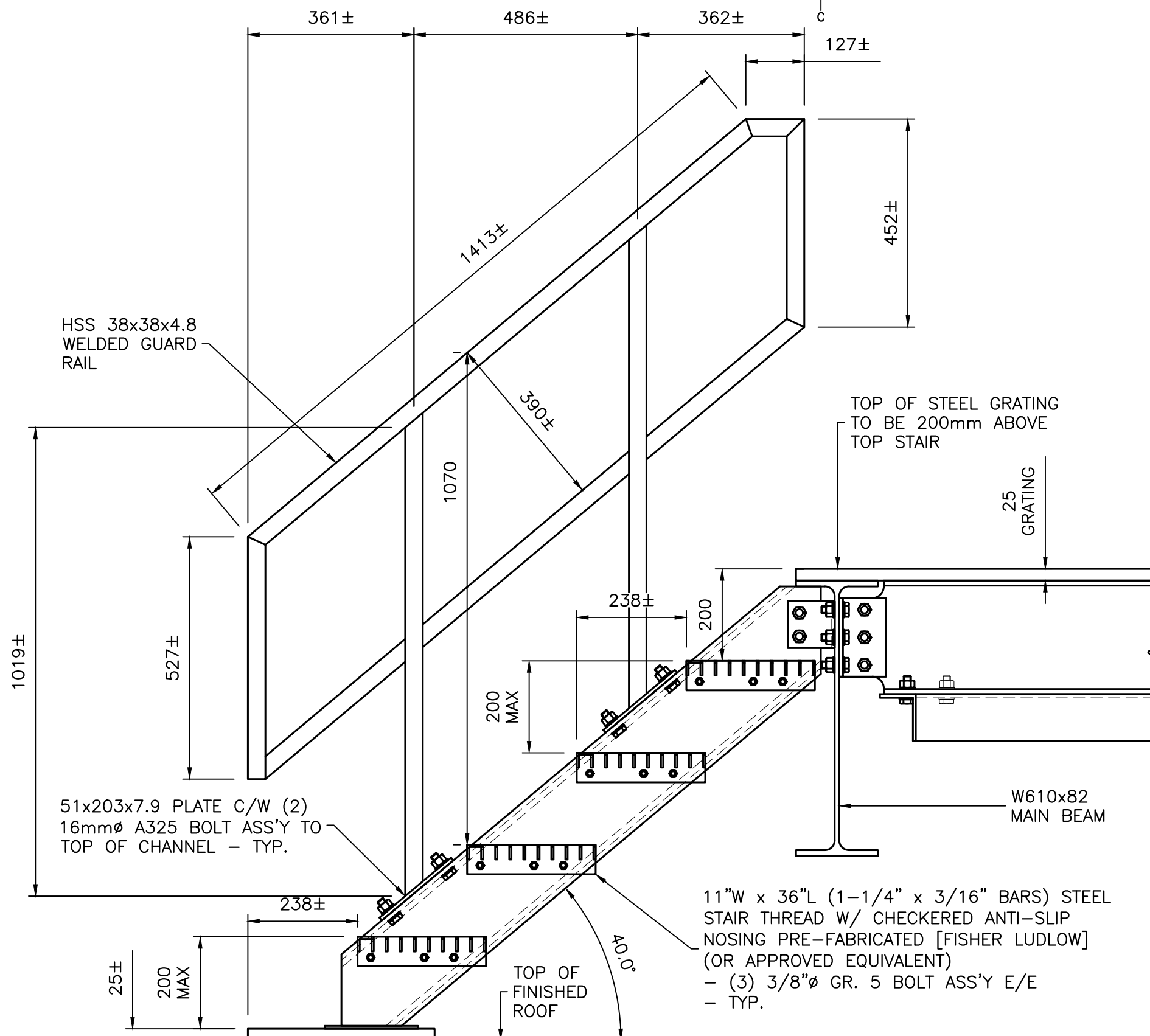
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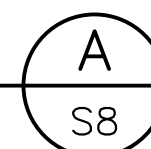
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S8



DETAIL - STAIR AND GUARD-RAIL

1:10



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S9

CONNECT C200x17 STRINGER
TO ATTACHED TO W610x82 WITH
L102x102x6.4 BACK TO BACK
ANGLES

1042±

TOP OF STEEL GRATING
TO BE 200mm ABOVE
TOP STAIR

25
GRATING

102x203x6.4
BASE PLATE
WELDED TO
C200x17
STRINGER

C200x17 STAIR STRINGER
W610x82
MAIN BEAM

INSTALL 406x1219
x 25mm THICK
UV RESISTANT HEAVY DUTY
RUBBER MAT
- INSTALL MORE IF REQ'D
FOR STAIR INSTALLATION
BASED ON FINAL PLATFORM
HEIGHT ABOVE FINISH ROOF

TOP OF FINISHED ROOF

1000
TOP OF RUBBER MAT TO TOP OF GRATING

1019±

25±

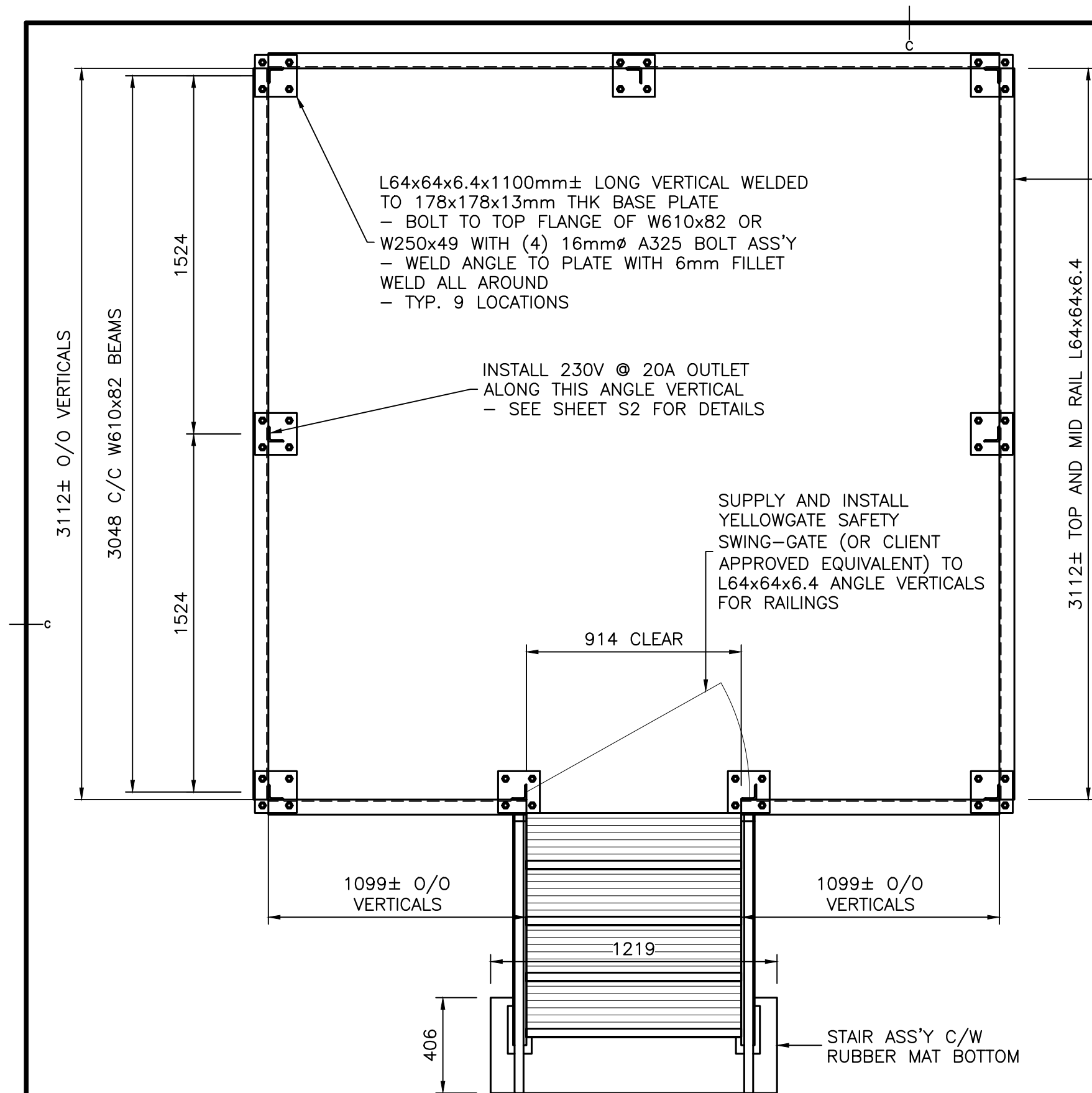
156±

406

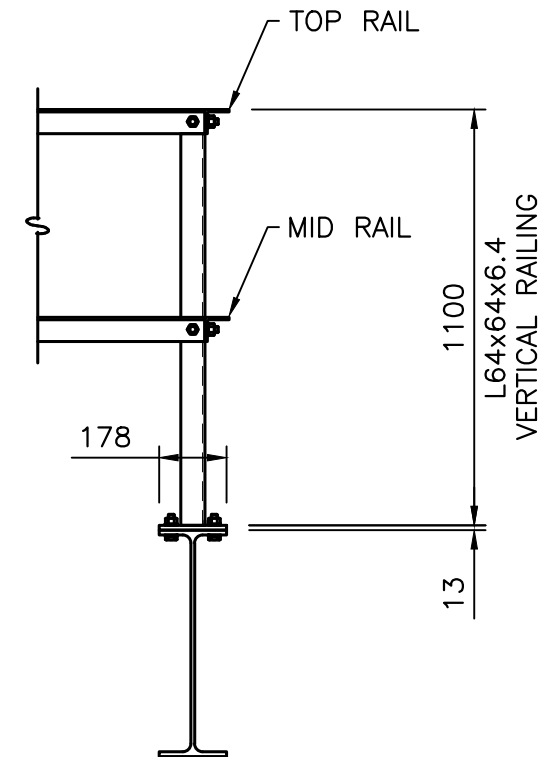
DETAIL - STAIR AND GUARD-RAIL CONT.

1:10

B
S9



L64x64x6.4 TOP AND MID RAIL
- BOLTED TO VERTICAL L64x64x6.4
WITH 16mmØ A325 BOLT ASS'Y



DETAIL - PLATFORM GUARD RAIL

1:20

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PLATFORM GUARD RAIL DETAIL

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PWGSC Project Manager Administrateur de projets TPSGC

project number no. du projet

CCG F6839-205503

drawing no. no. du dessin

S10

1
S10



R2	ISSUED FOR CONSTRUCTION	11/12/2020
R1	ISSUED FOR CONSTRUCTION	07/24/2020
R0	ISSUED FOR REVIEW	07/16/2020

revisions	date
project	project

**CCG RADAR ROOF MOUNT
SIR HUMPHREY GILBERT BLDG
165 DUCKWORTH ST.
ST. JOHN'S
NEWFOUNDLAND LABRADOR**

drawing dessin

ASSEMBLED PLATFORM PLAN VIEW

designed	R. TILLER / J. WALSH	conçu
date	2020-NOV-12	
drawn	J. DOYLE	dessiné
date	2020-NOV-12	
approved	J. WALSH	approuvé
date	2020-NOV-12	

Tender Soumission

PWGSC Project Manager Administrateur de projets TPSGC

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drawing no. no. du dessin

S11

4

8534±

3

NEW 7' RADAR C/W 1500mm PEDESTAL
- CONNECT TO W250x49 TOP FLANGES BELOW
- INSTALL AS PER TERMA PEDESTAL
AND RADAR MANUFACTURER INSTRUCTIONS

SECTION 1

SECTION 2

SECTION 3

INSTALL 25mm
GRATING SECTIONS
AND ATTACH TO
TOP FLANGES OF
W-BEAM FRAMING
BELOW

3048 C/C

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 4

RECOMMENDED GRATING SCHEMATIC

PLAN VIEW - ASSEMBLED PLATFORM

1:30

1

S11

PROVINCE OF NEWFOUNDLAND AND LABRADOR



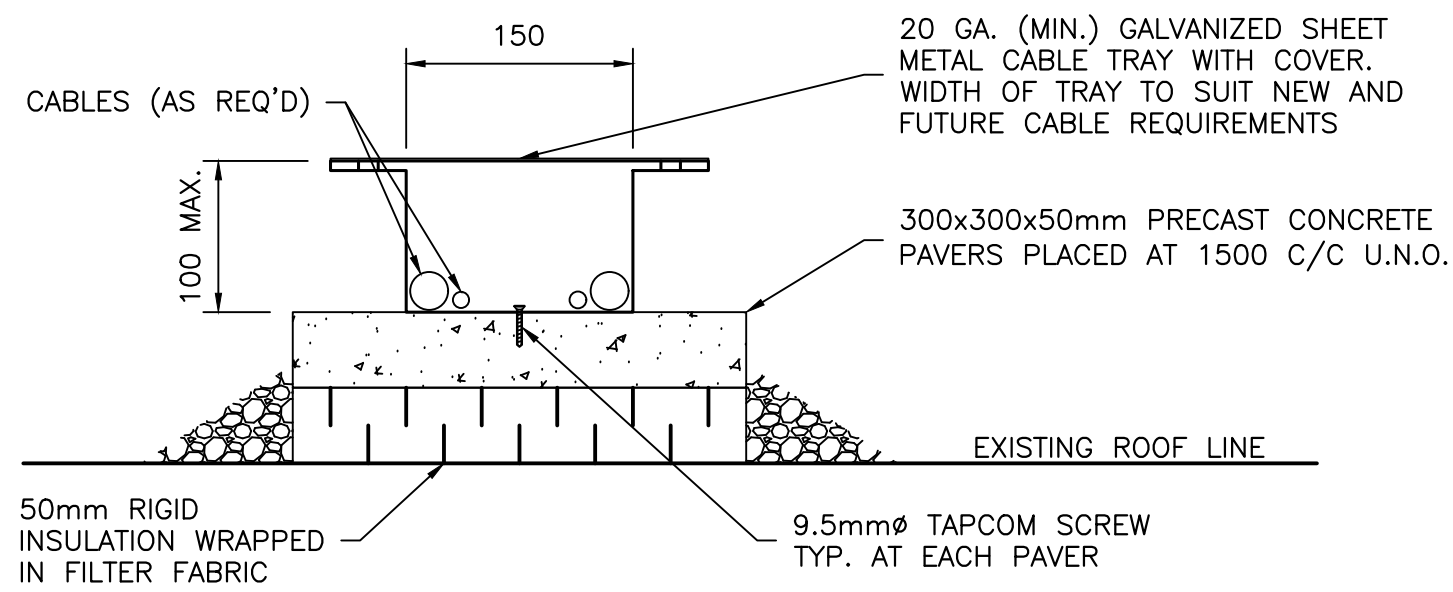
PERMIT HOLDER

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TILLER ENGINEERING INC.

MIRC #02255

To practice Professional Engineering
In Newfoundland and Labrador.
Permit No. as Issued by PEG P0227
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DETAIL – CABLE TRAY ALONG ROOFTOP

1:5

NOTE: INSTALL AS SHOWN OR ENGINEERED APPROVED EQUIVALENT

1
S12

PROVINCE OF NEWFOUNDLAND AND LABRADOR

PEG
Newfoundland
and Labrador
Professional Engineering

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REGISTERED PROFESSIONAL ENGINEER
PEG
Newfoundland
and Labrador
JONATHAN E. WALSH
SIGNATURE
NOV 12/2020
DATE
NEWFOUNDLAND & LABRADOR

R2	ISSUED FOR CONSTRUCTION	11/12/2020
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project project

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SIR HUMPHREY GILBERT BLDG
165 DUCKWORTH ST.
ST. JOHN'S
NEWFOUNDLAND LABRADOR**

drawing dessin

CABLE TRAY DETAIL

designed	R. TILLER / J. WALSH	conçu
date	2020-NOV-12	
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approved	J. WALSH	approuvé
date	2020-NOV-12	

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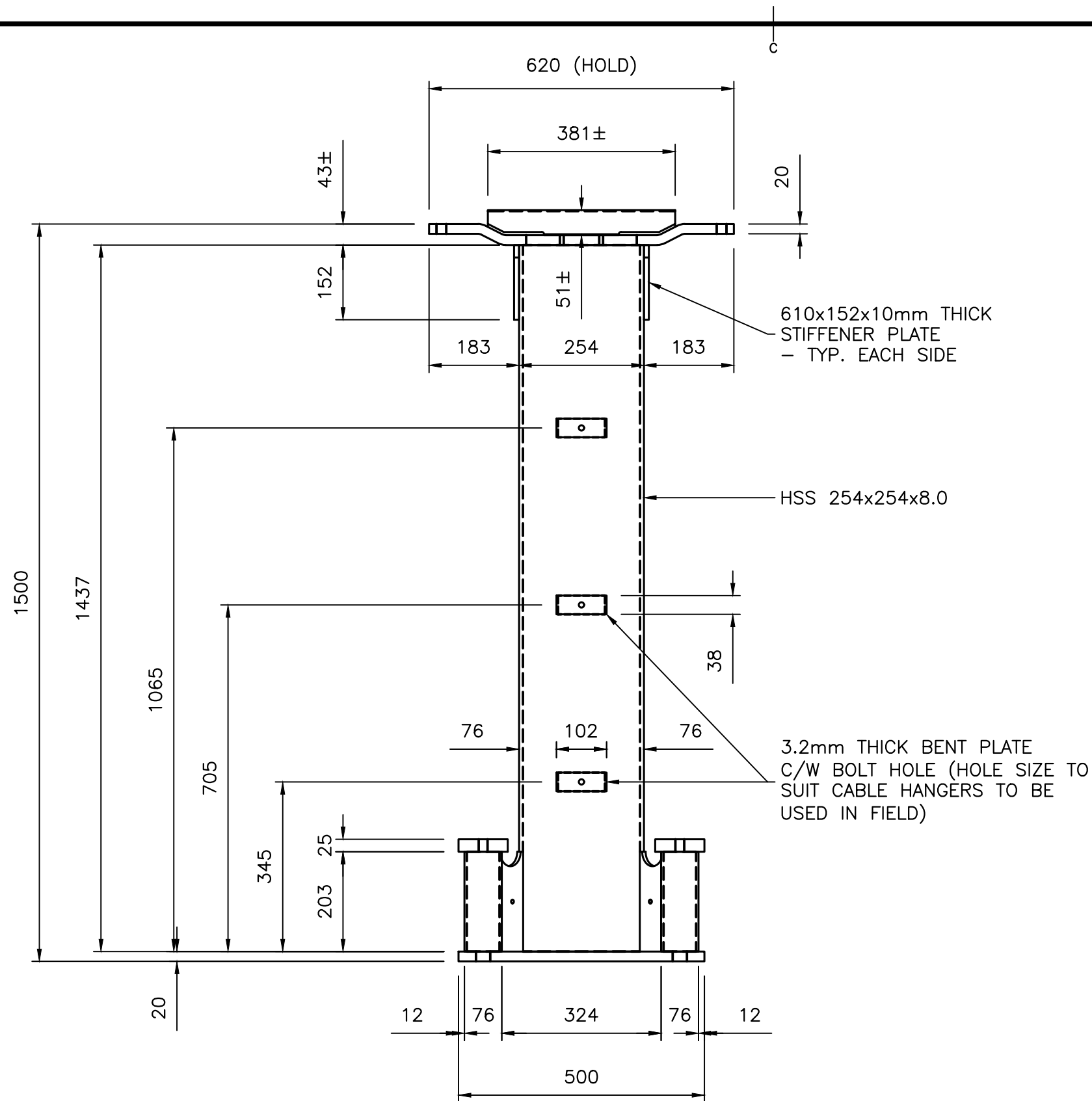
PWGSC Project Manager Administrateur de projets TPSGC

project number no. du projet

CCG F6839-205503

drawing no. no. du dessin

S12



PEDESTAL ELEVATION VIEW

1:10

1


S13

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 Pêches et Océans
Canada
Garde côtière

Fisheries and Oceans
Canada
Coast Guard



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project

**CCG RADAR ROOF MOUNT
SIR HUMPHREY GILBERT BLDG
165 DUCKWORTH ST.
ST. JOHN'S
NEWFOUNDLAND LABRADOR**

drawing

PEDESTAL FABRICATION DETAILS

designed R. TILLER / J. WALSH conçu

date 2020-NOV-12

drawn J. DOYLE dessiné

date 2020-NOV-12

approved J. WALSH approuvé

date 2020-NOV-12

Tender Soumission

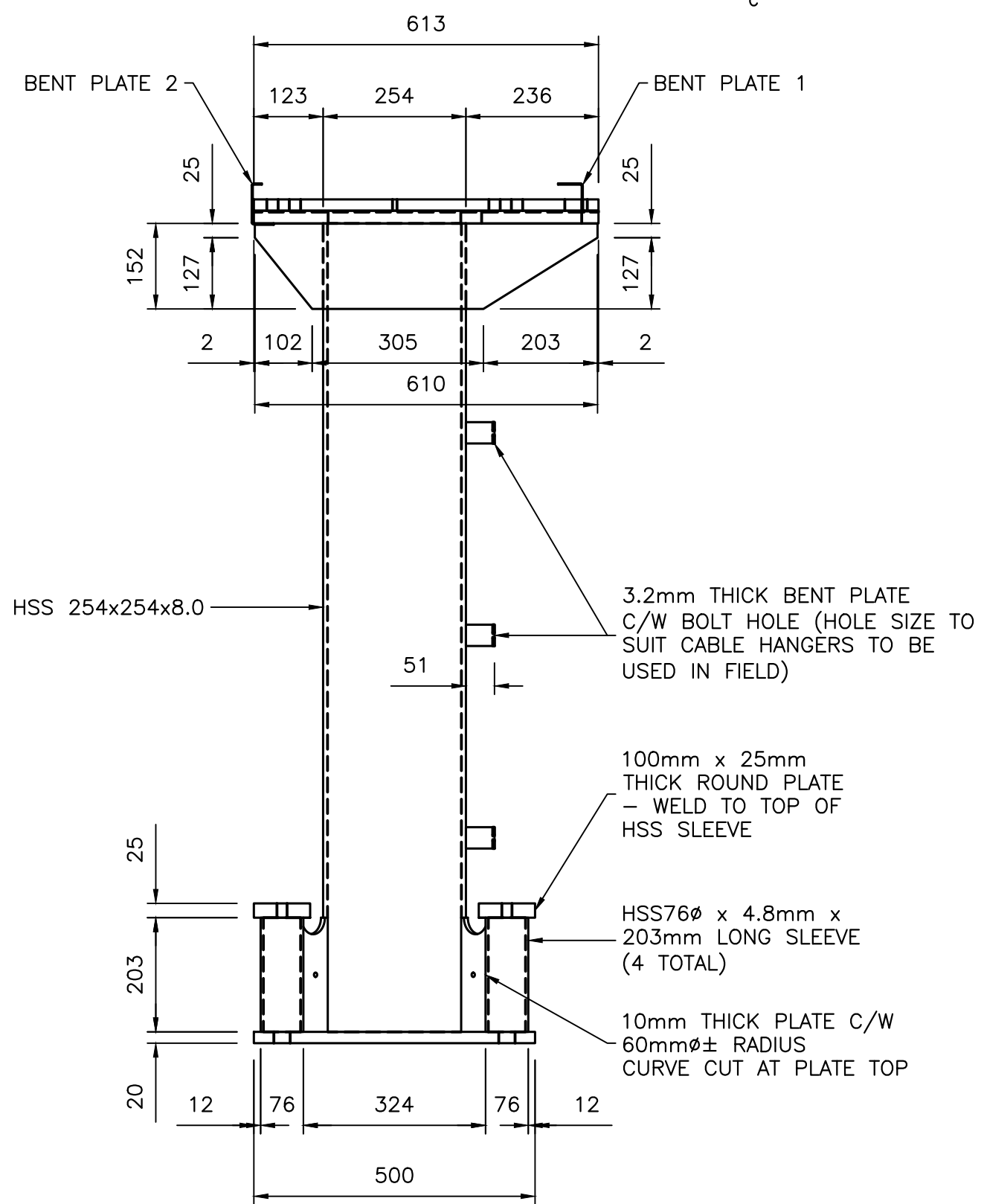
PWGSC Project Manager Administrateur de projets TPSGC

project number no. du projet

CCG F6839-205503

drawing no. no. du dessin

S13




PEDESTAL SIDE VIEW

1:10

1
S14

PROVINCE OF NEWFOUNDLAND AND LABRADOR
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Newfoundland and Labrador
Professional Engineering and Geomatics
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 Pêches et Océans Canada
Garde côtière
Fisheries and Oceans Canada
Coast Guard



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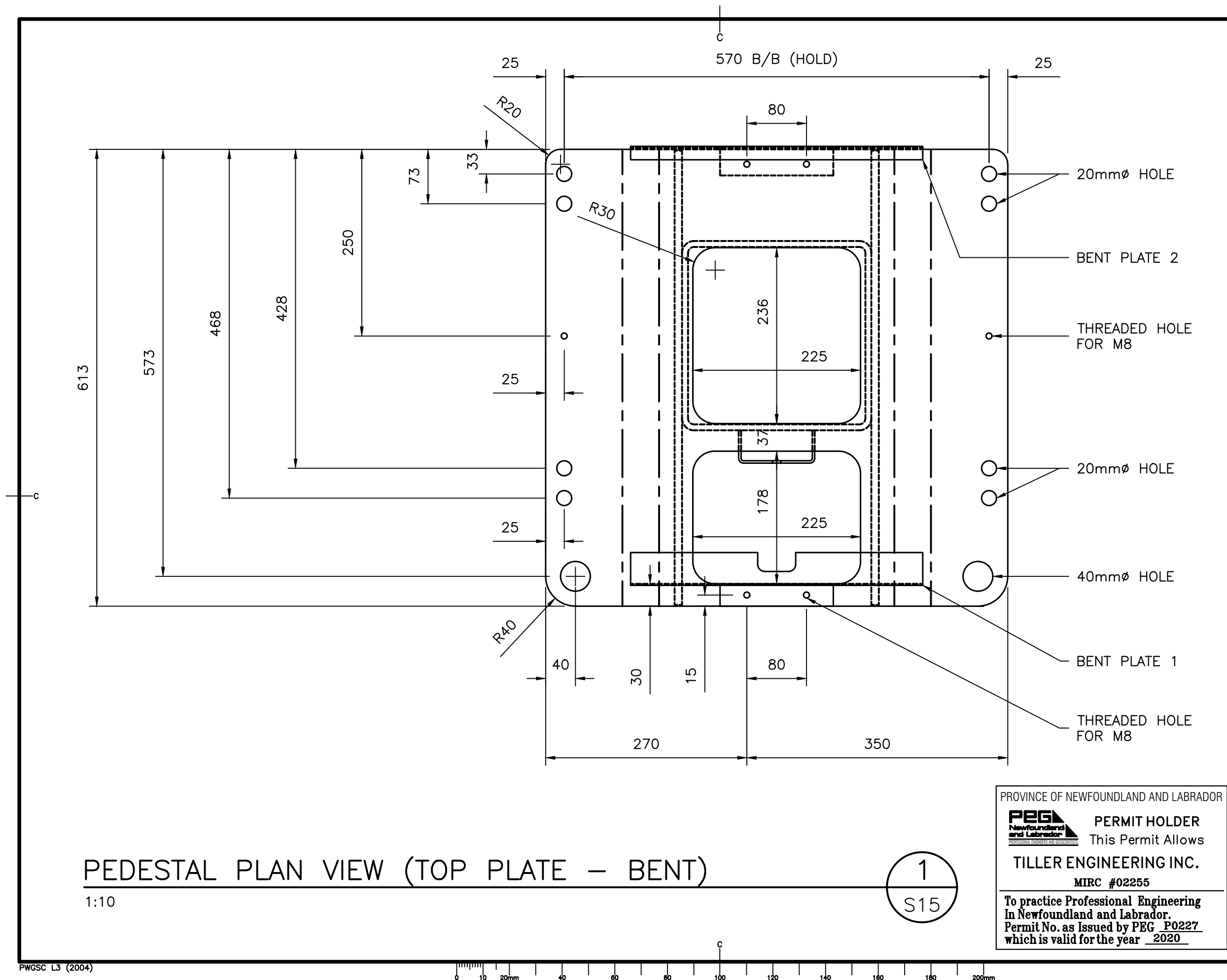
project
**CCG RADAR ROOF MOUNT
SIR HUMPHREY GILBERT BLDG
165 DUCKWORTH ST.
ST. JOHN'S
NEWFOUNDLAND LABRADOR**

drawing
**PEDESTAL
FABRICATION DETAILS**

designed R. TILLER / J. WALSH
date 2020-NOV-12
drawn J. DOYLE
date 2020-NOV-12
approved J. WALSH
date 2020-NOV-12

Tender
PWGSC Project Manager Administrateur de projets TPSGC
project number
CCG F6839-205503
drawing no.

S14



PEDESTAL PLAN VIEW (TOP PLATE – BENT)

1:10

1
S15

PROVINCE OF NEWFOUNDLAND AND LABRADOR

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and Labrador
Professional Engineering
Geomatics Engineering

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project

**CCG RADAR ROOF MOUNT
SIR HUMPHREY GILBERT BLDG
165 DUCKWORTH ST.
ST. JOHN'S
NEWFOUNDLAND LABRADOR**

project

drawing

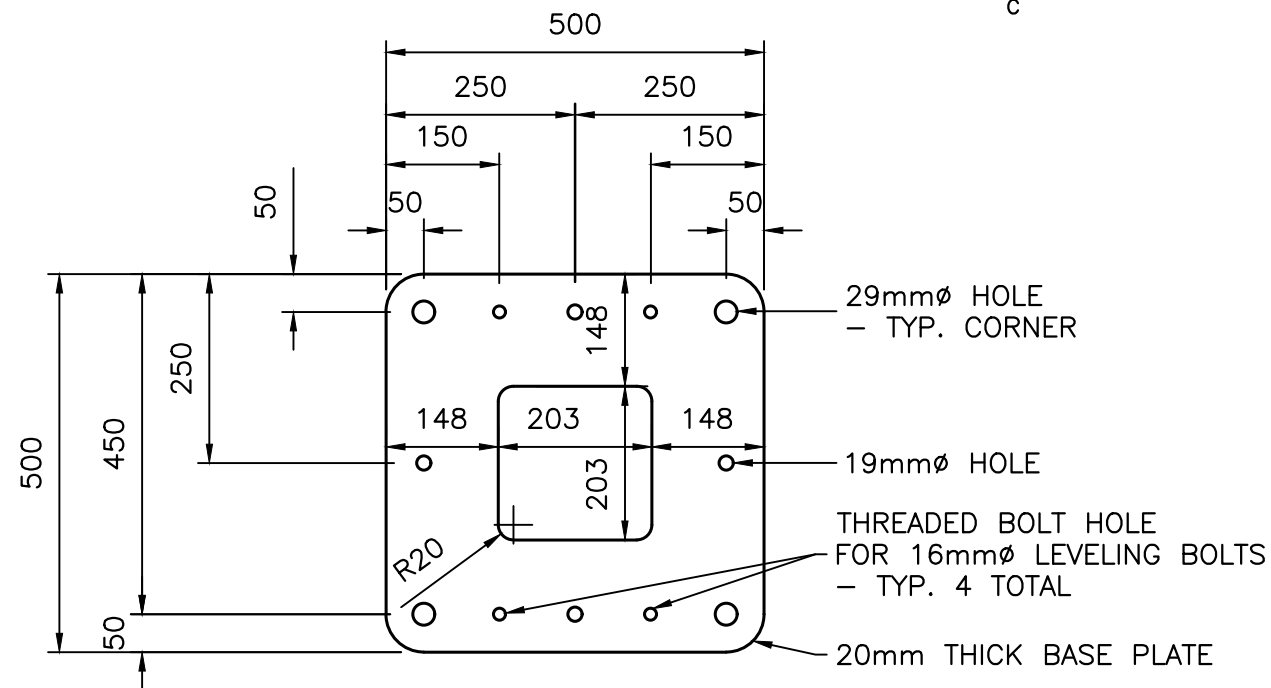
**PEDESTAL
FABRICATION DETAILS**

dessin

designed	R. TILLER / J. WALSH	conçu
date	2020-NOV-12	
drawn	J. DOYLE	dessiné
date	2020-NOV-12	
approved	J. WALSH	approuvé
date	2020-NOV-12	

Tender	Soumission
PWGSC Project Manager	Administrateur de projets TPSGC
project number	no. du projet
CCG F6839-205503	
drawing no.	no. du dessin

S15

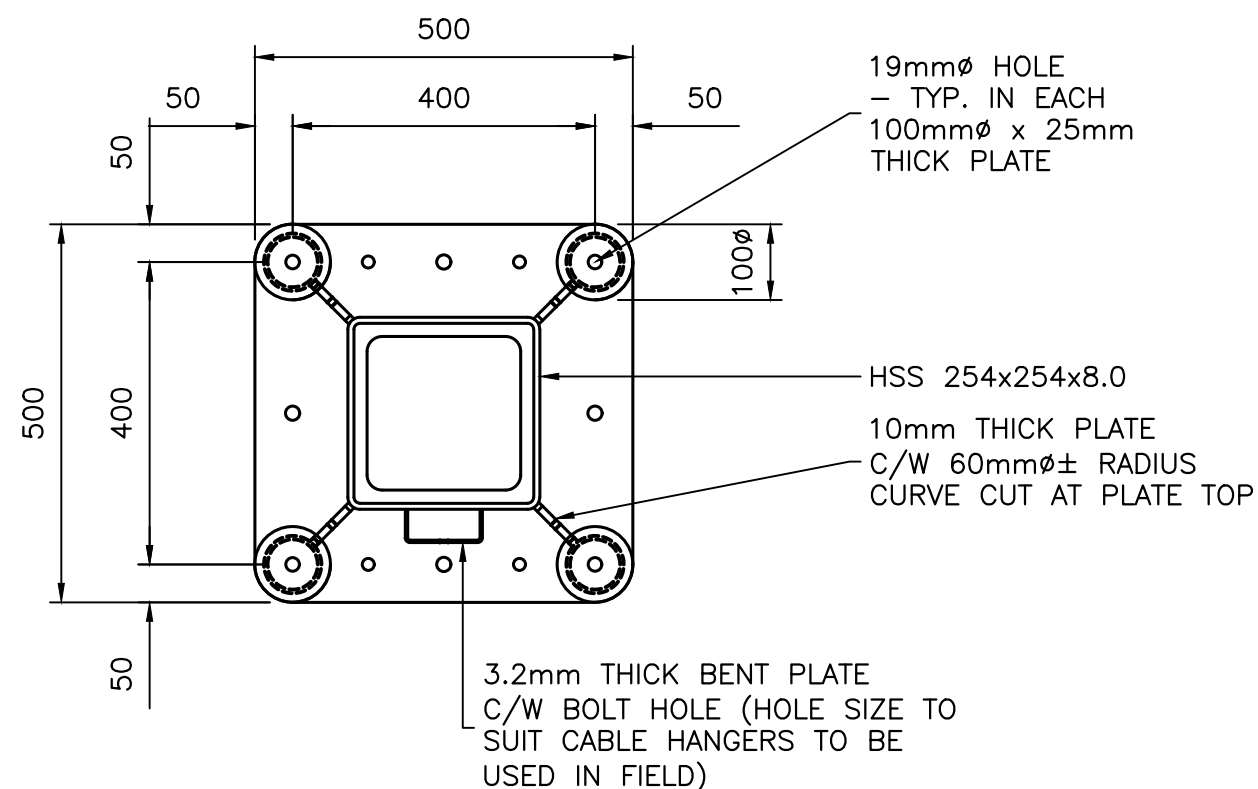


PEDESTAL PLAN VIEW (BOTTOM BASE PLATE)

1:10

1

S16



PEDESTAL PLAN VIEW (NEAR BOTTOM - ASSEMBLED)

1:10

2

S16



R2	ISSUED FOR CONSTRUCTION	11/12/2020
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revisions		date
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project		project
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CCG RADAR ROOF MOUNT
SIR HUMPHREY GILBERT BLDG
165 DUCKWORTH ST.
ST. JOHN'S
NEWFOUNDLAND LABRADOR

drawing		dessin
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Tender		Soumission
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PWGSC Project Manager	Administrateur de projets TPSGC
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project number	no. du projet
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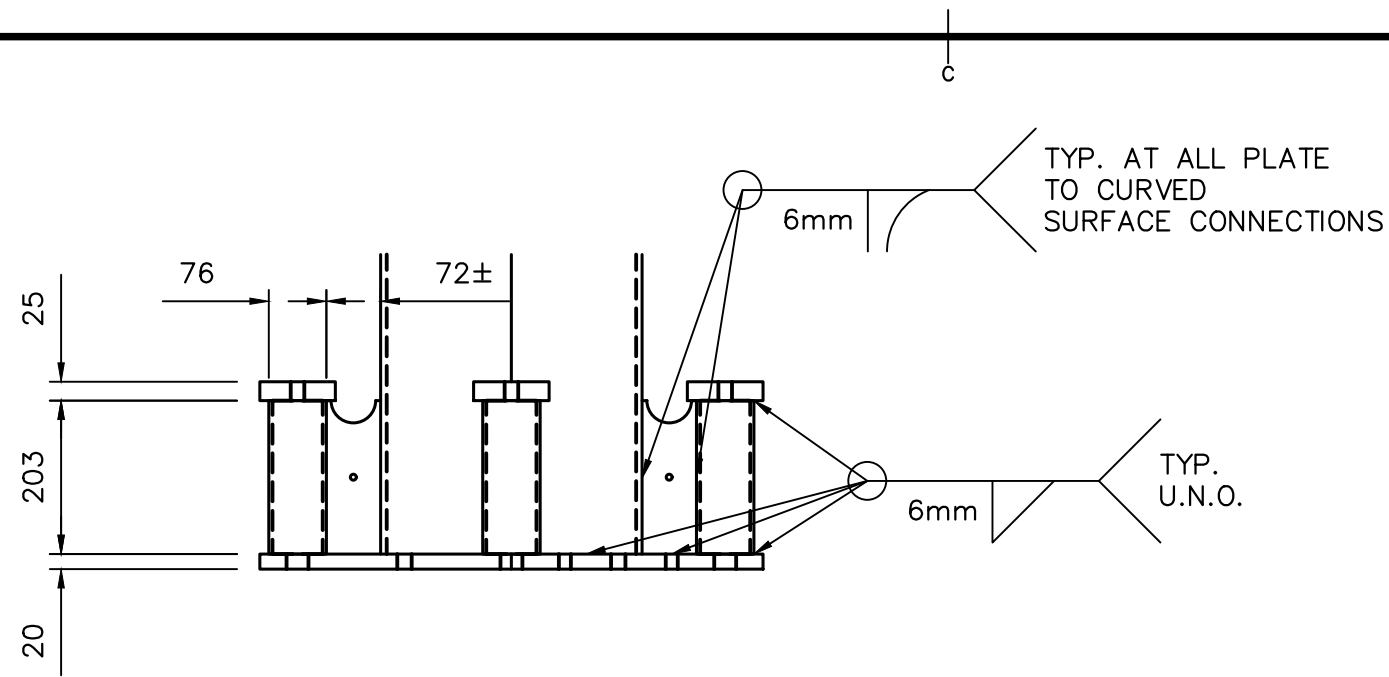
CCG F6839-205503

drawing no.	no. du dessin
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S16

PROVINCE OF NEWFOUNDLAND AND LABRADOR

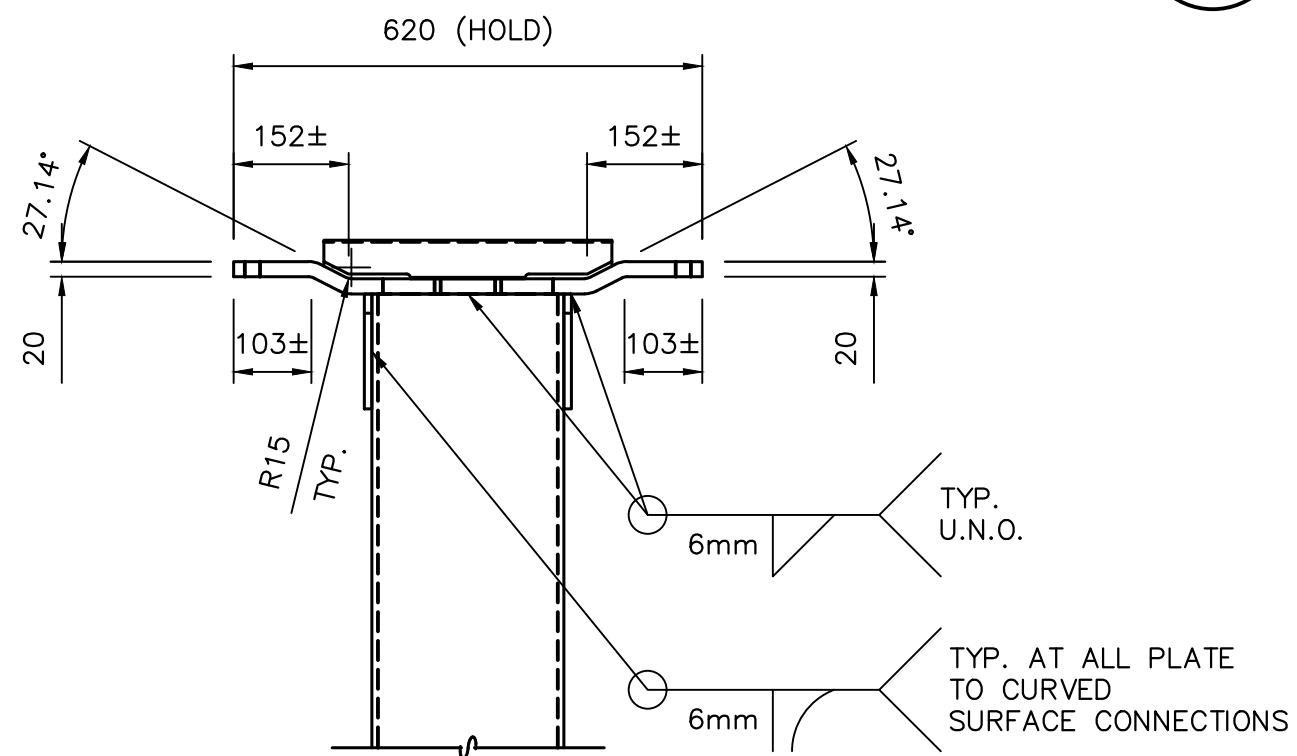
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TYPICAL WELD DETAILS (BOTTOM BASE PL. ASS'Y)

1:10

1
S17



TYPICAL TOP PLATE AND WELD DETAILS

1:10

2
S17



revisions	project	date
R2	ISSUED FOR CONSTRUCTION	11/12/2020
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PWGSC Project Manager Administrateur de projets TPSGC

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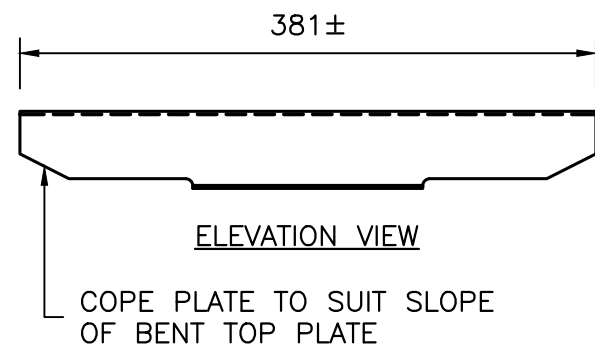
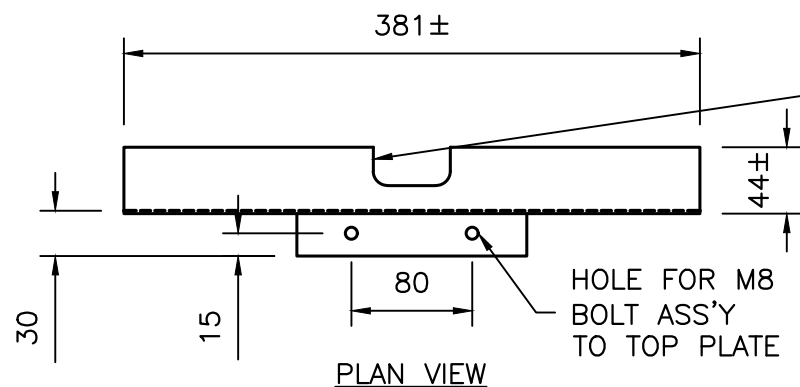
drawing no. no. du dessin

S17

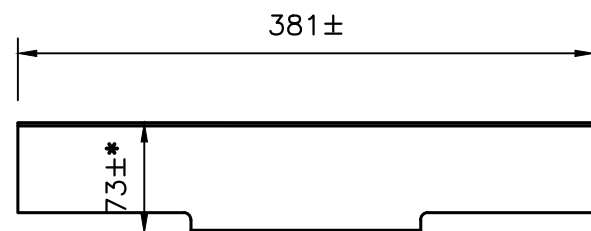
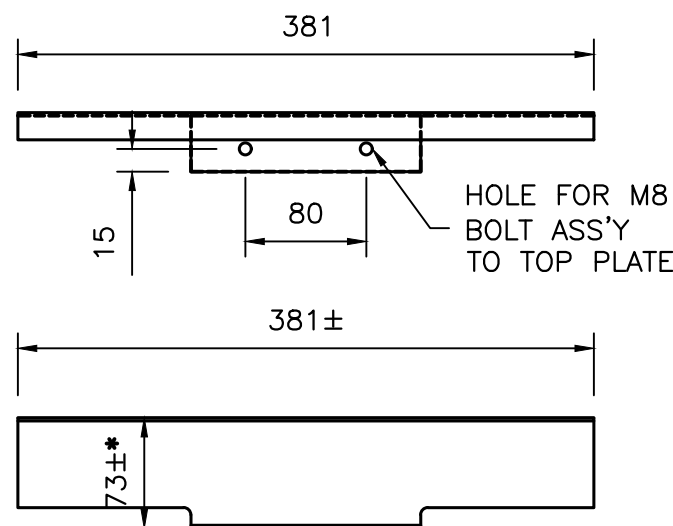
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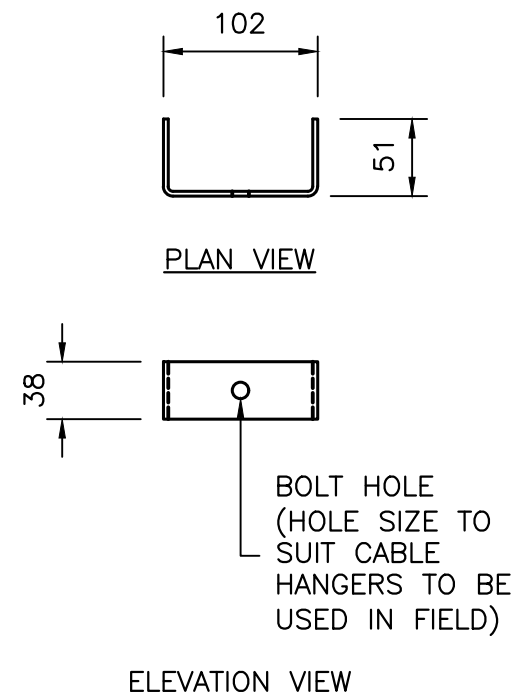
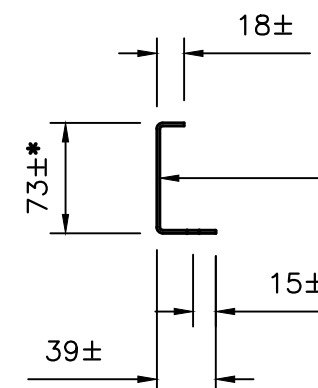
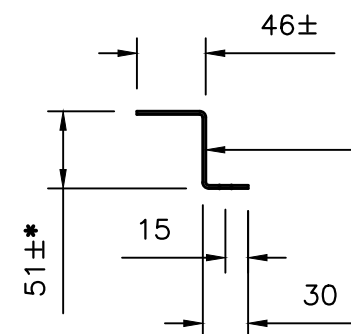
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BENT PLATE 1
 MATERIAL: 2mm THICK BENT PLATE
 GRADE: G40.21-300W
 FINISH: HDG
 QTY: 1



BENT PLATE 2
 MATERIAL: 2mm THICK BENT PLATE
 GRADE: G40.21-300W
 FINISH: HDG
 QTY: 1

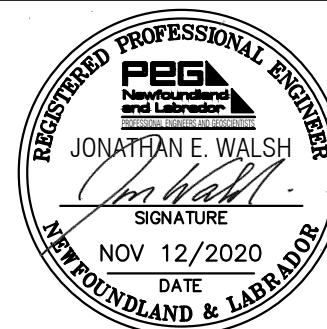


BENT PLATE FOR CABLE HANGERS
 MATERIAL: 3.2mm THICK BENT PLATE
 GRADE: G40.21-300W
 FINISH: HDG
 QTY: 3

PROVINCE OF NEWFOUNDLAND AND LABRADOR

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NEWFOUNDLAND LABRADOR

**PEDESTAL
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drawing no. no. du dessin

S18