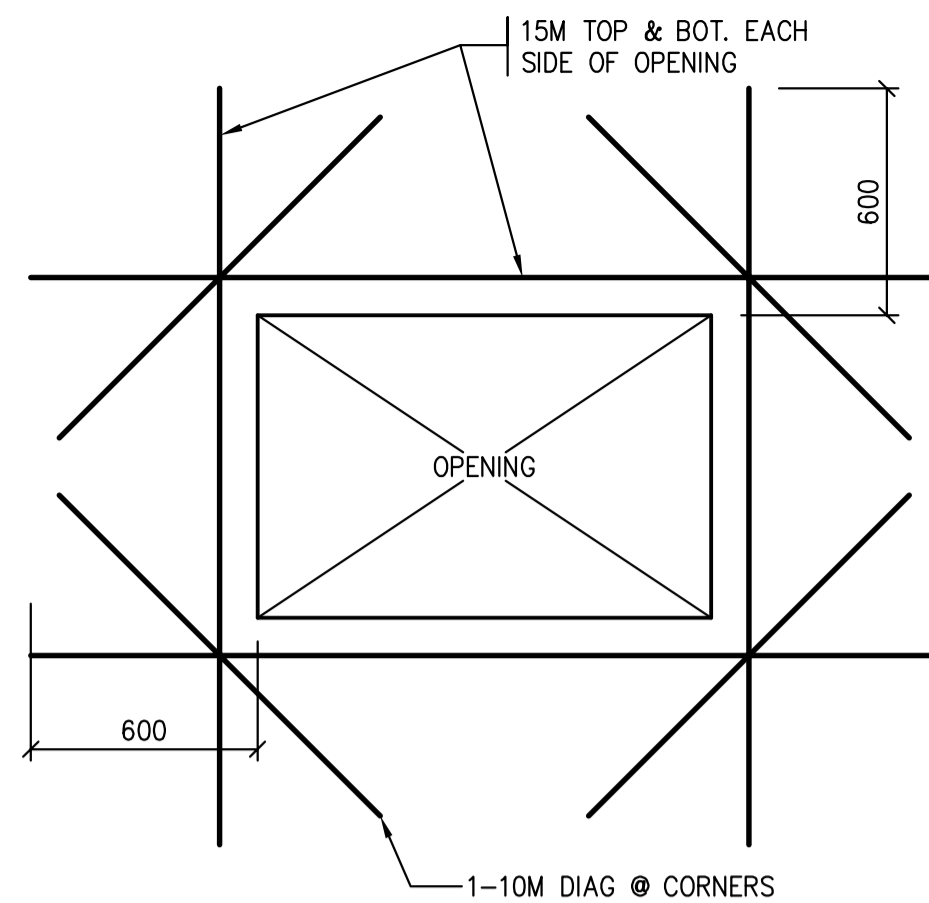
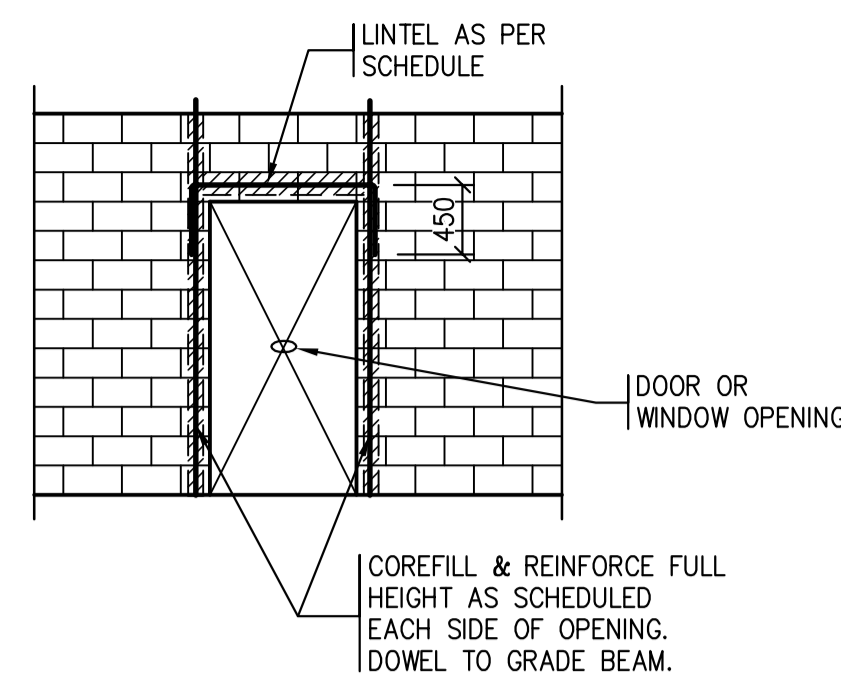


NOTE: 15M CORNER BAR REINFORCING. MATCH SPACING WITH HORIZONTAL REINFORCING OF WALL OR GRADE BEAM.

A TYP. WALL OR GRADE BEAM INTERSECTION N.T.S.



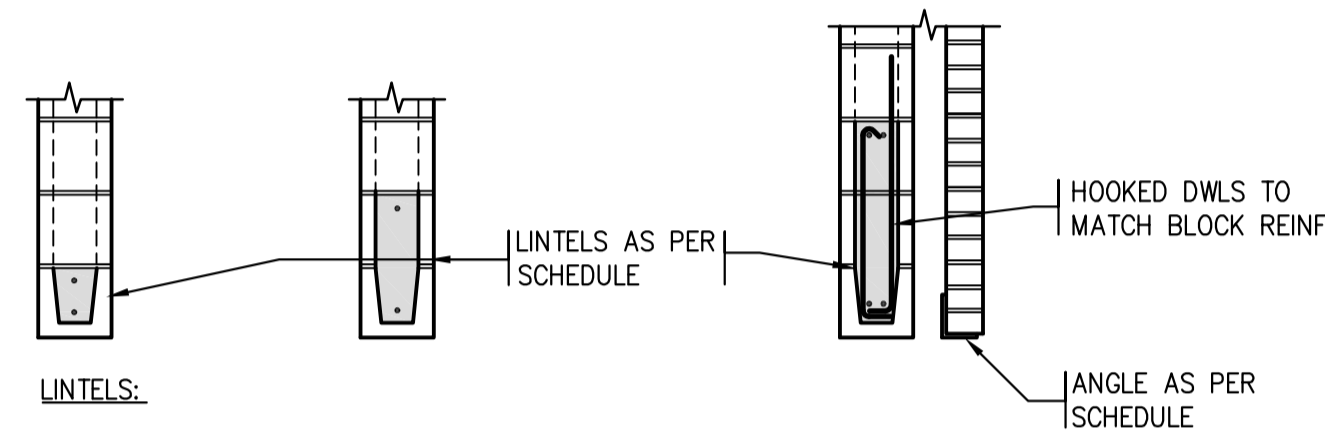
F OPENING IN SLAB ON VOID



OPENINGS IN NEW MASONRY

OPENING WIDTH	JAMB REINFORCING
0 TO 1200	1-15M IN 1 CORE EACH SIDE
1201 TO 1800	1-20M IN 1 CORE EACH SIDE
1801 & GREATER	2-15M IN 2 CORES EACH SIDE

K TYPICAL REINFORCING AROUND ALL OPENINGS IN LOADBEARING CONCRETE BLOCK WALLS



- LINTELS:**
- TYPICAL LINTELS FOR OPENINGS UP TO 2400mm WIDE IN LOADBEARING WALLS AS SHOWN UNLESS DETAILED OTHERWISE. FOR LARGER OPENINGS SEE DETAILS.
 - ALL LINTELS TO BEAR MIN. 200 EACH END.

OPENING WIDTH	200 CONC BLOCK	100 MASONRY
0 TO 1200	200 HIGH c/w 2-20M BOT	L100x90x10
1201 TO 2400	400 HIGH c/w 1-20M TOP & BOT.	L125x90x10
2401 TO 3600	600 HIGH c/w 2-15M TOP & BOT. 10M TIES @ 400% c	L152x90x10

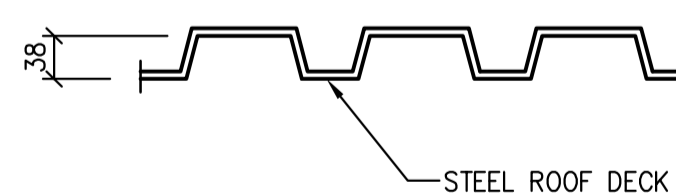
L TYPICAL LINTEL DETAILS FOR CONCRETE BLOCK & BRICK VENEER

- NOTES:**
- ALL CONCRETE BLOCK WALLS TO BE REINFORCED WITH 1-10M c/w CORE FILLING EACH CORE UNLESS NOTED OTHERWISE. EXTEND VERTICAL REINFORCING THRU BOND BEAMS, DOWEL TO FOUNDATION WITH 10Mx1200lg DOWELS @ 800% c MAX.
- CO-ORDINATE CORE FILLING WITH PLACEMENT OF MECH/ELEC SERVICES TO BE PLACE IN CORES.
 - STRUCTURAL DRAWINGS DETAIL EXTENT OF STRUCTURAL WALL REINFORCING ONLY. THESE REQUIREMENTS TO BE READ WITH AND CO-ORDINATED WITH ARCHITECTURAL DRAWINGS.
 - REFER TO ARCHITECTURAL DRAWINGS FOR TYPES OF CONCRETE BLOCK AND EXTENT OF COREFILLING FOR SECURITY AND SOUND REQUIREMENTS.

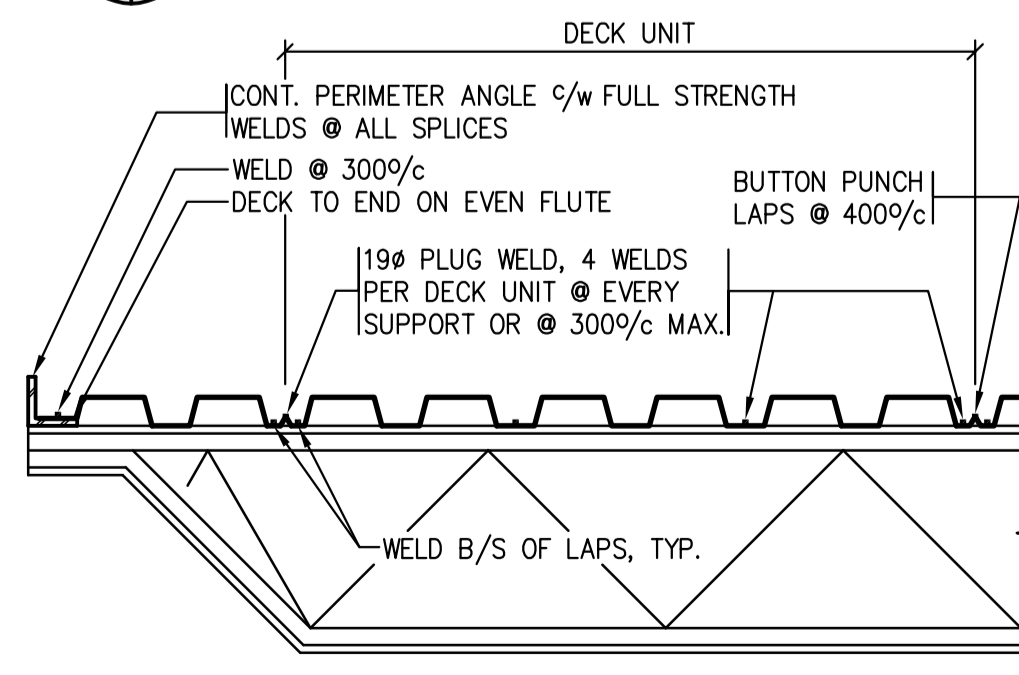
M TYPICAL CONCRETE BLOCK WALL REINFORCING DETAILS

TYPICAL ROOF DECK
U/S DECK ELEVATION AS DETAILED
38mm x 0.91mm or 1.22mm STEEL ROOF DECK MINIMUM. (SIZED TO SUIT LOADS ON PLANS)
ZF075 STANDARD (ZINC WIPE COAT GALVANIZED) U.N.O.

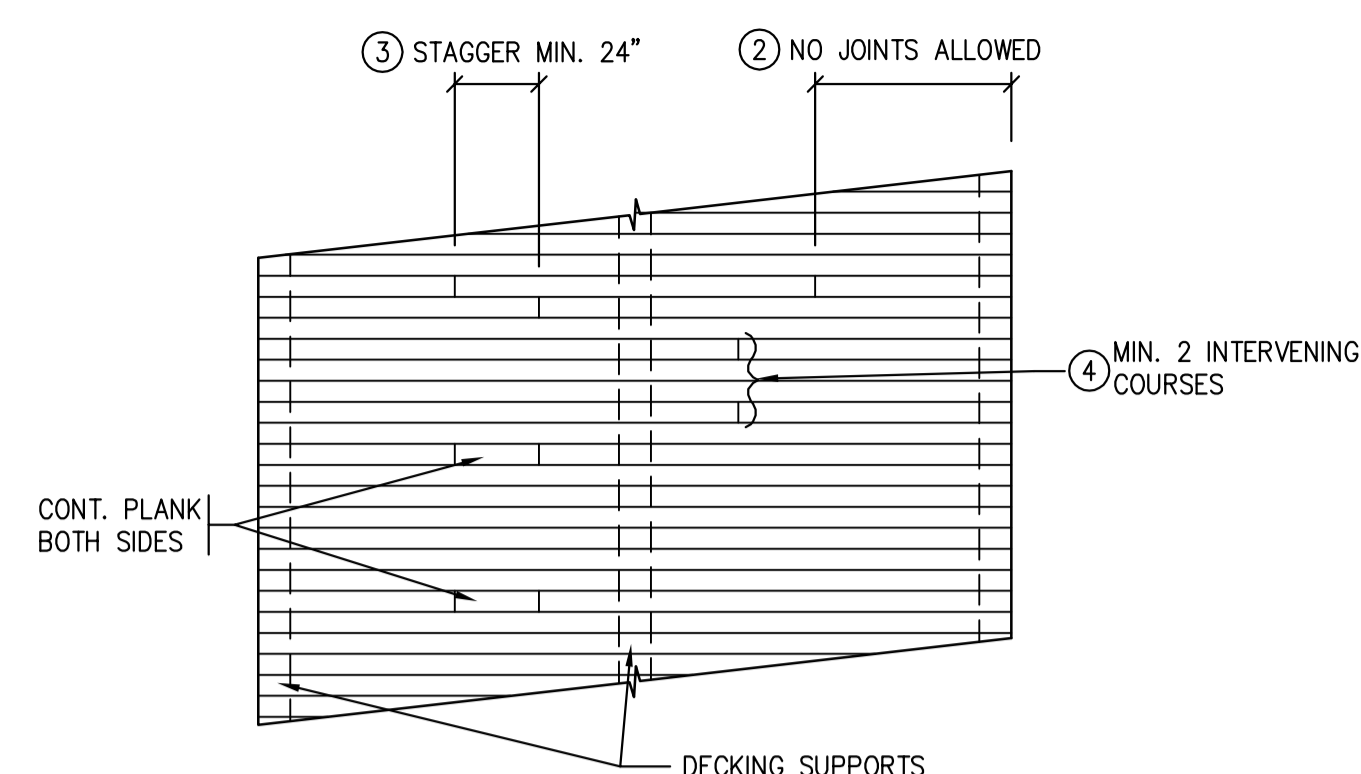
NOTE:
ROOF DECK NOTED IN ARCHITECTURAL ROOM SCHEDULE AS RECEIVING PAINT TO BE PRIME PAINTED RATHER THAN ZINC WIPE COAT GALVANIZED.



N METAL ROOF DECK DETAIL

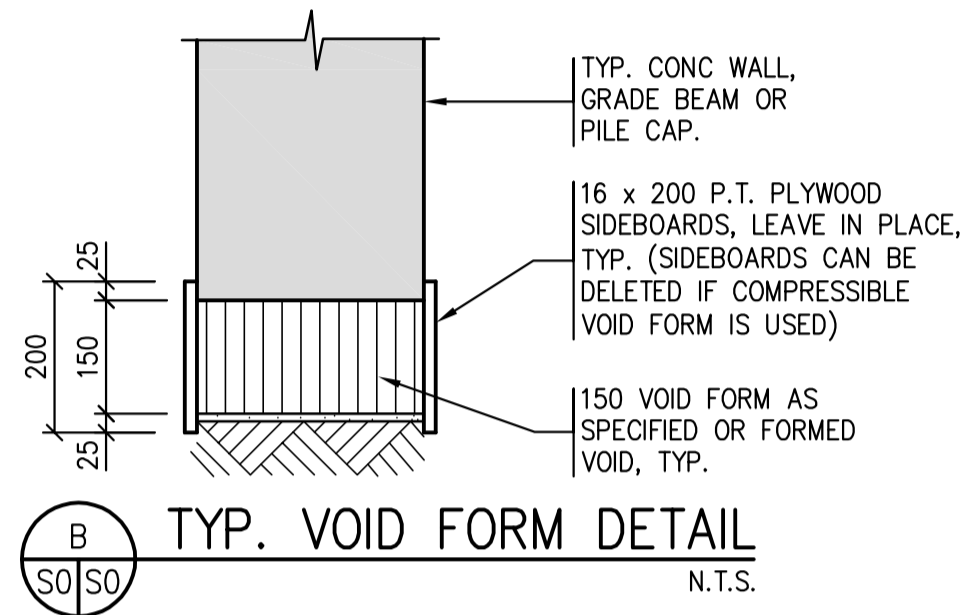


P TYP. DECK WELDING DETAILS

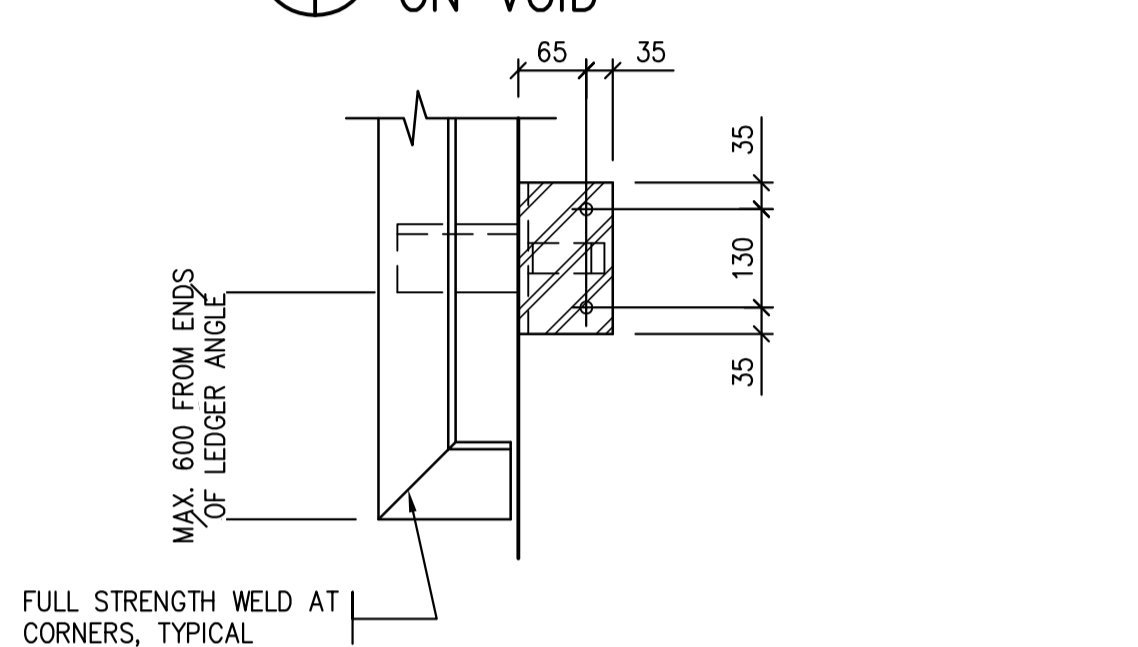


Q WOOD DECK PLACEMENT

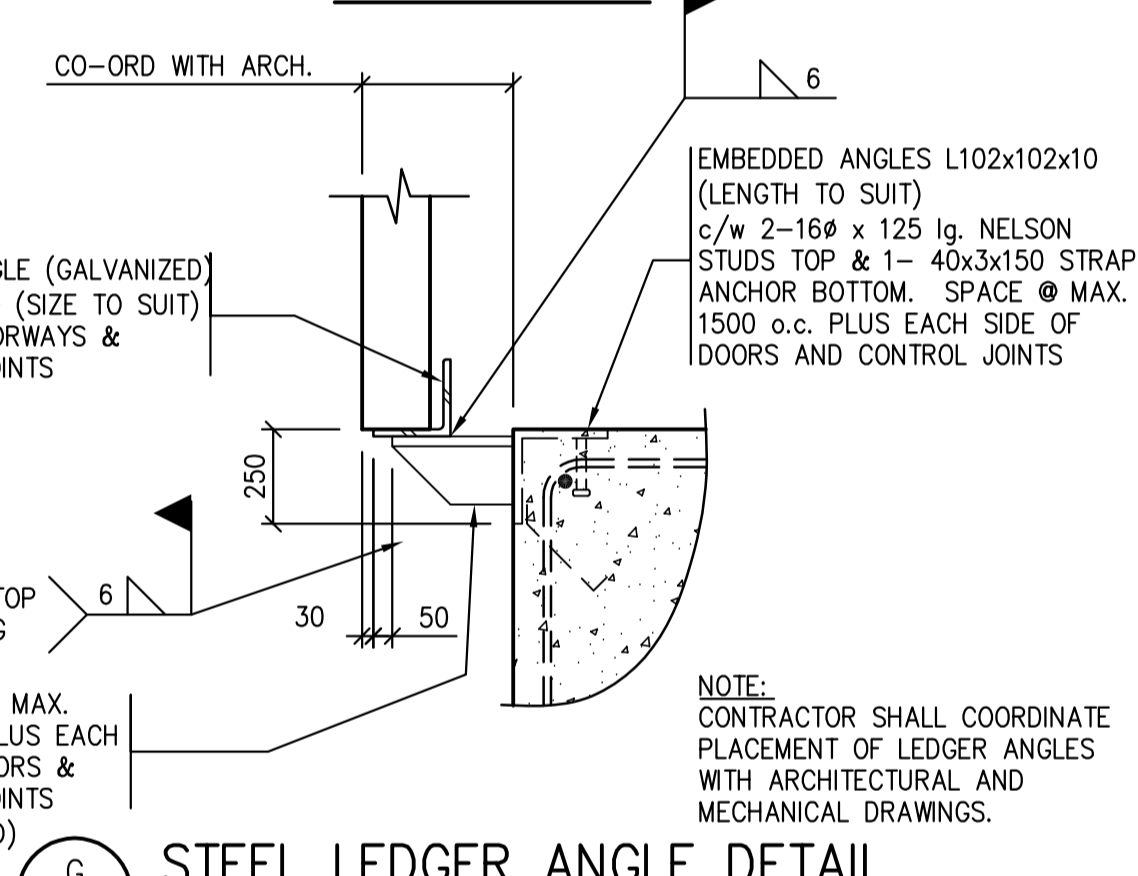
- CONTROLLED RANDOM**
- MINIMUM DECK SUPPORT - 2 SPAN.
 - END JOINTS NOT PERMITTED IN OUTERHALF OF END SPANS.
 - END JOINTS IN ADJACENT COURSED, STAGGER MINIMUM 600.
 - END JOINTS IN THE SAME GENERAL LINE MUST BE SEPARATED BY MINIMUM 2 INTERVENING COURSES.
 - PLANKS THAT DO NOT SPAN OVER SUPPORT MUST BE FLANKED BY CONTINUOUS PLANKS BOTH SIDES AND SEPARATED BY 6 PLANKS.
 - SECURE PLANKS TO STEEL BEAMS WITH 13mm BOLTS @ 400mm STAGGERED LATERALLY. SPIKE PLANKS TOGETHER WITH 250 SPIKES @ 750% c IN PRE-DRILLED HOLES.



B TYP. VOID FORM DETAIL N.T.S.

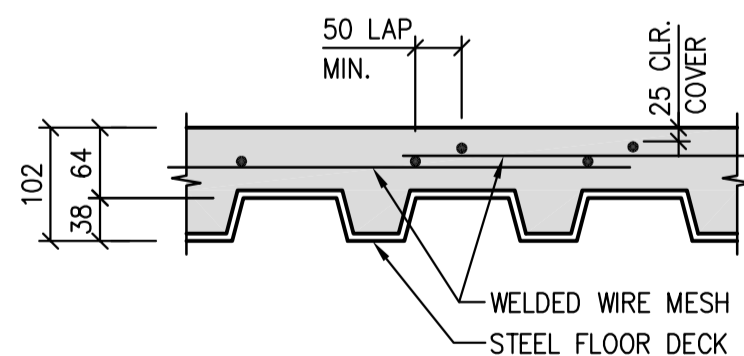


G STEEL LEDGER ANGLE DETAIL

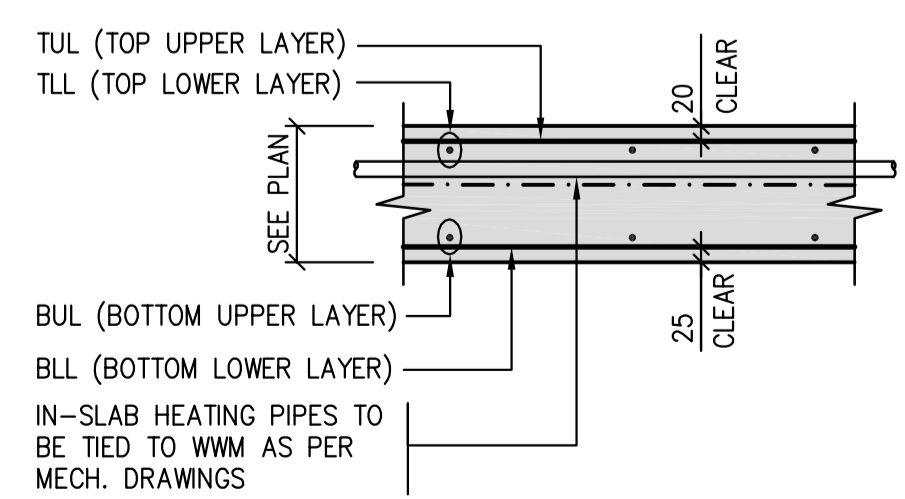


C TYP. CONTROL JOINT DETAIL @ 125 SLAB-ON-GRADE N.T.S.

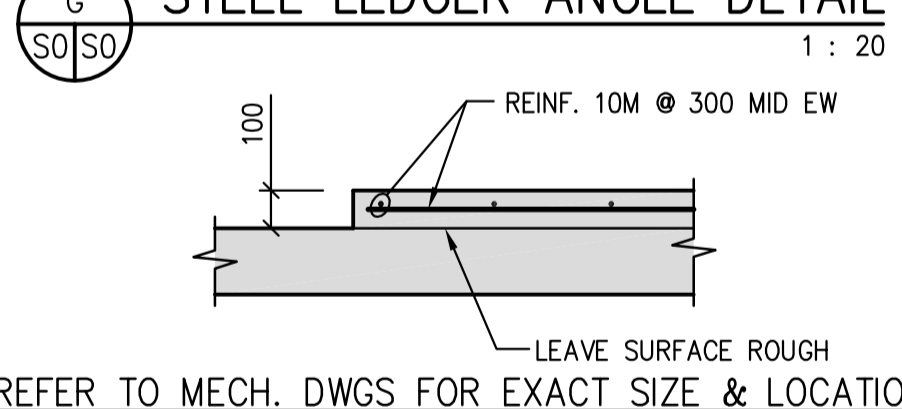
TYPICAL CONCRETE SLAB-ON-DECK
TOP OF CONCRETE SLAB @ ELEV. 103.350 U.N.O.
102 CONCRETE SLAB-ON-DECK
38mm x 0.76mm HI-BOND STEEL FLOOR DECK TO BE ZF075 STANDARD (ZINC WIPE COAT GALVANIZED) U.N.O.
REINF. CONC. WITH 152x152xMMW25.8xMMW25.8WWF



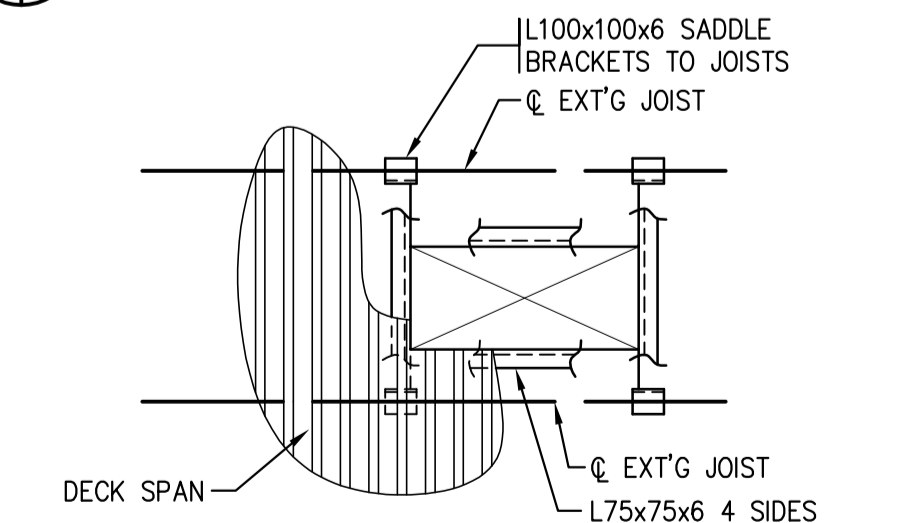
D 102 CONC. SLAB ON DECK DETAIL



E IN-SLAB HEATING PLACEMENT FOR STRUCT. SLABS



H TYP. MECHANICAL HOUSEKEEPING PADS



J PLAN @ TYP. FRAMING AROUND NEW ROOF OPENINGS

- REFER TO MECHANICAL DRAWINGS FOR EXACT SIZE AND LOCATION OF NEW OPENINGS.
- OPENINGS LESS THAN 150 TO BE UNREINFORCED.
 - OPENINGS 150 TO 450 TO BE REINFORCED AS PER SPEC.
 - OPENINGS GREATER THAN 450 REINFORCE AS DETAILED.
 - PROVIDE DECK SUPPORT PLANKS BELOW WOOD DECKING.



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Revision/Revision	Description/Description	Date/Date
Client/client		

Project title/Titre du projet

NEW POLICE BUILDING ONION LAKE, SASKATCHEWAN

Approved by/Approve par

Designed by/Concept par
S.K.

Drawn by/Dessine par
B.R.

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie

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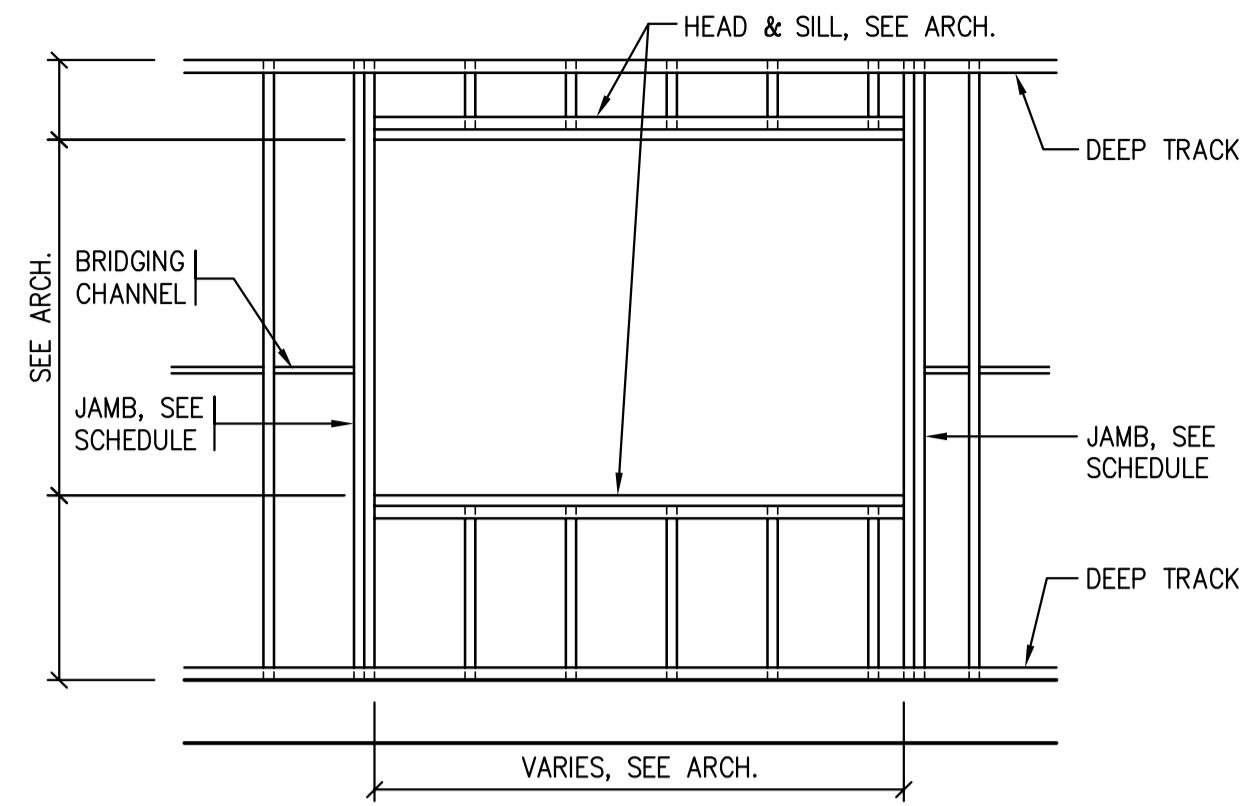
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TYPICAL DETAILS

Project No./No. du projet
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La Révision no.
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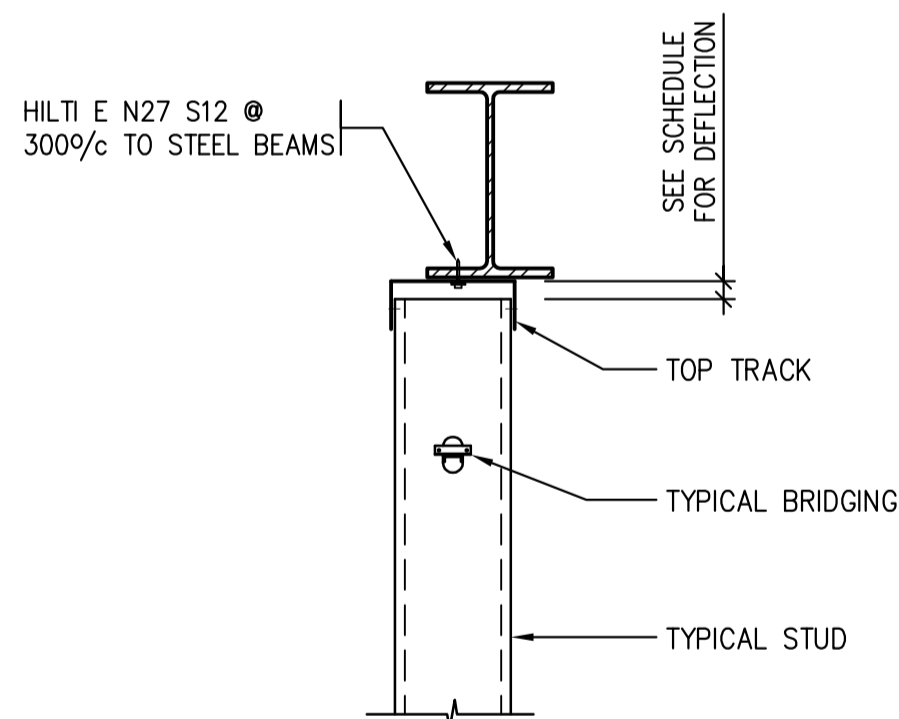
ELEVATION

WIND BEARING STEEL STUD SCHEDULE				
Component	Location	Size (D x W x t) (mm)	Spacing (mm)	Note
BOTTOM TRACK	TYPICAL	152x38x1.14 (18ga)	N/A	
OUTSIDE TOP TRACK	TYPICAL	152x41x1.14 (18ga)	N/A	
INSIDE TOP TRACK	TYPICAL	152x76x1.14 (18ga)	N/A	25mm DEFLECTION
SLOTTED TOP TRACK (ALT)	TYPICAL	152x76x1.14 (18ga)	N/A	25mm DEFLECTION
WALL STUDS	TYPICAL	152x41x1.14 (18ga)	400 %/c	BRIDGING @ 1200 %/c
PARAPET STUDS	TYPICAL	152x41x0.88 (20ga)	400 %/c	BRIDGING @ 1200 %/c

STEEL STUD LINTEL SCHEDULE			
	OPENING WIDTHS		
	0 to 1200	1201 to 2400	2401 to 3600
JAMBS	2 STUDS	2 STUDS	3 STUDS
HEAD	1 TRACK	1 TRACK 1 STUD	3 TRACK & 2 STUDS
SILL	1 TRACK	1 STUD 1 TRACK	3 TRACK & 2 STUDS

- NOTE:
- STEEL STUD LINTEL SCHEDULE
 - ALL MULTI-PLY JAMBS TO BE SCREWED TOGETHER @ MIN. 610%/c.
 - STUDS TO BE SCREWED TO TRACKS AT SILL AND HEADS.
 - TRACK THICKNESS 1.81mm FOR OPENINGS > 2400mm.
 - CONFIRM OPENING SIZES WITH ARCHITECTURAL PLANS AND ELEVATIONS.

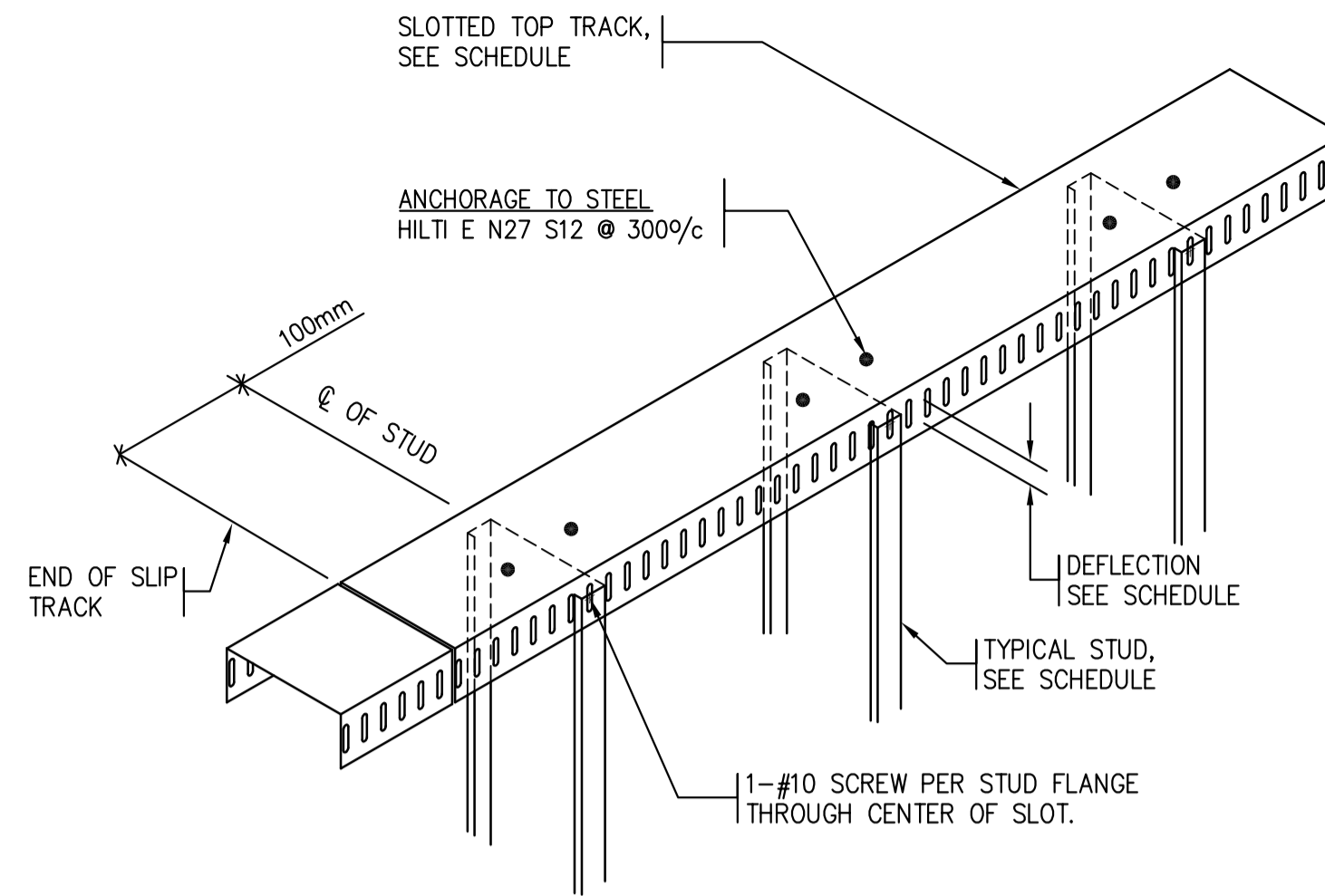
A STEEL STUD SCHEDULE N.T.S.



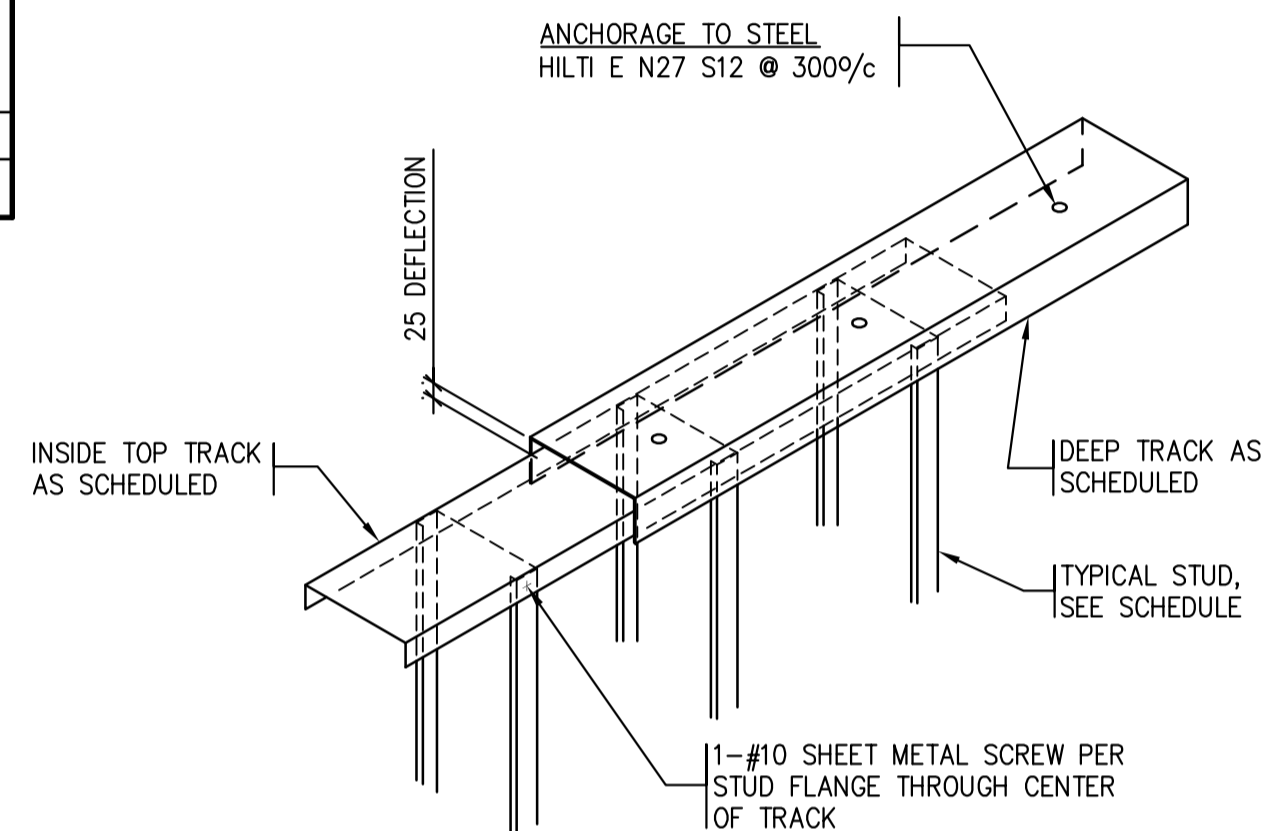
B TOP TRACK TO STEEL BEAM DETAIL N.T.S.



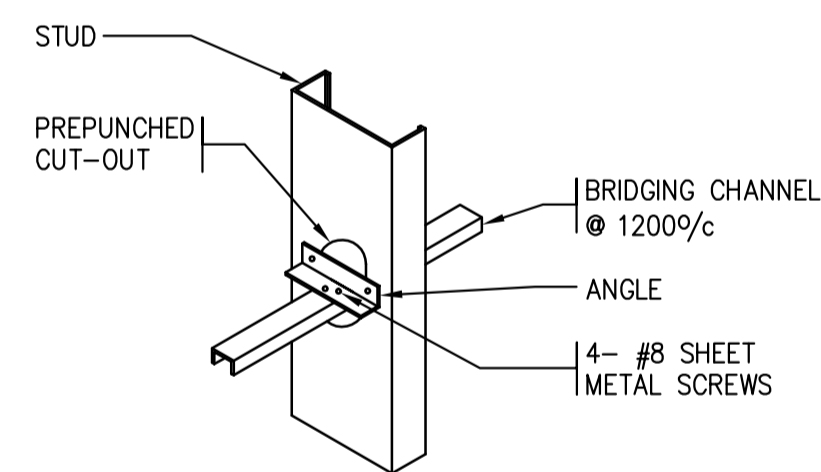
C TYP. DETAIL @ BOTTOM TRACK N.T.S.



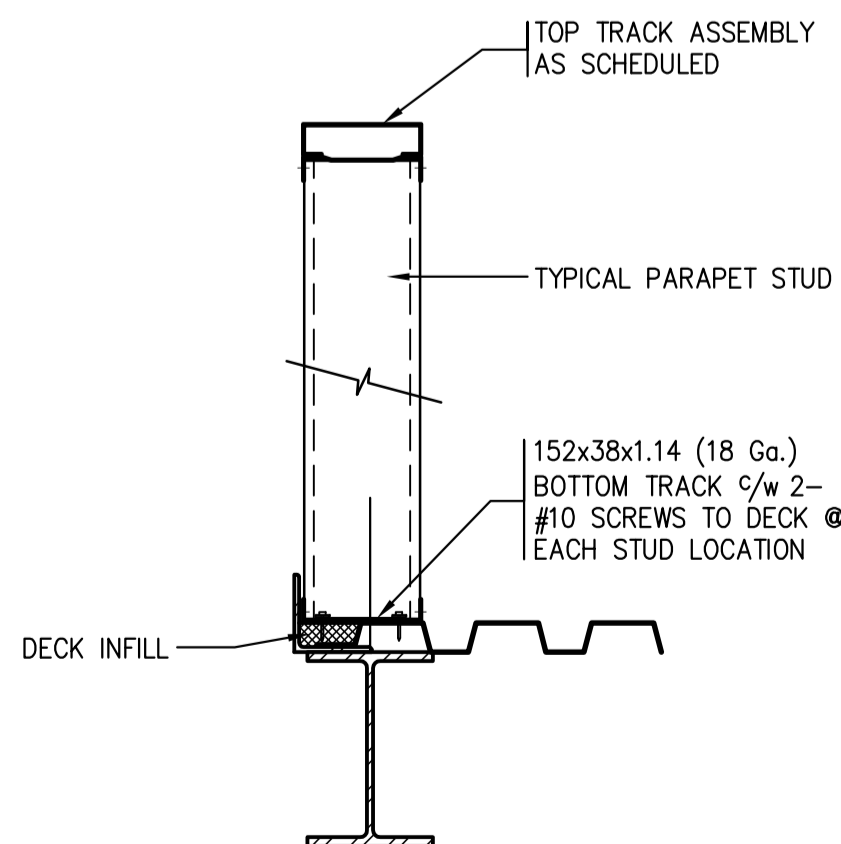
D SLOTTED TOP TRACK DETAIL (ALTERNATE) N.T.S.



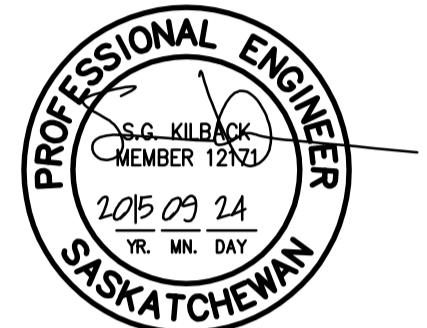
E DOUBLE TOP TRACK DETAIL, OPTION N.T.S.



F TYPICAL BRIDGING DETAIL N.T.S.



G PARAPET DETAIL N.T.S.



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NEW POLICE BUILDING
ONION LAKE, SASKATCHEWAN

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Designed by/Concept par
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Drawn by/Dessine par
B.R.

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Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie

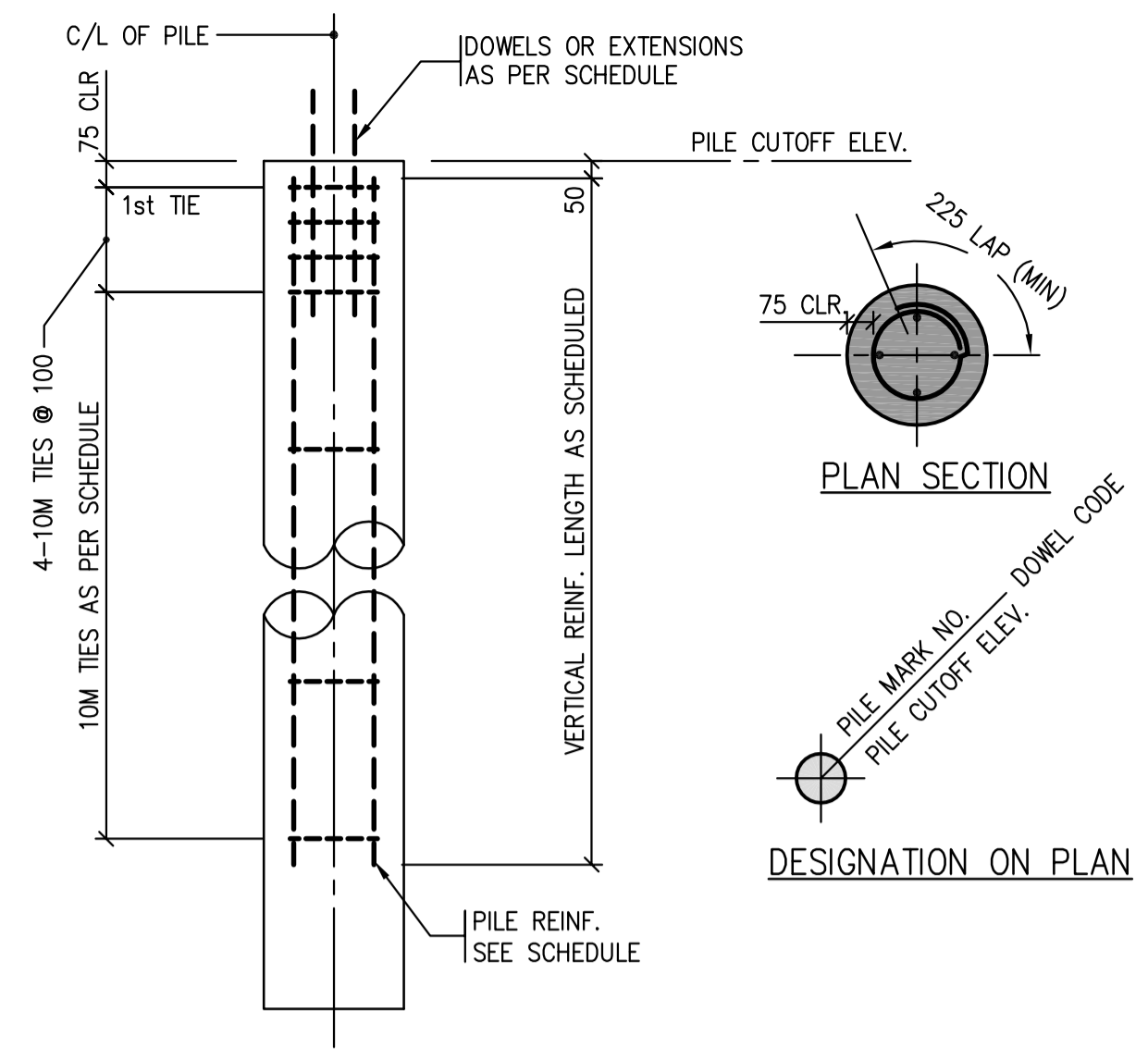
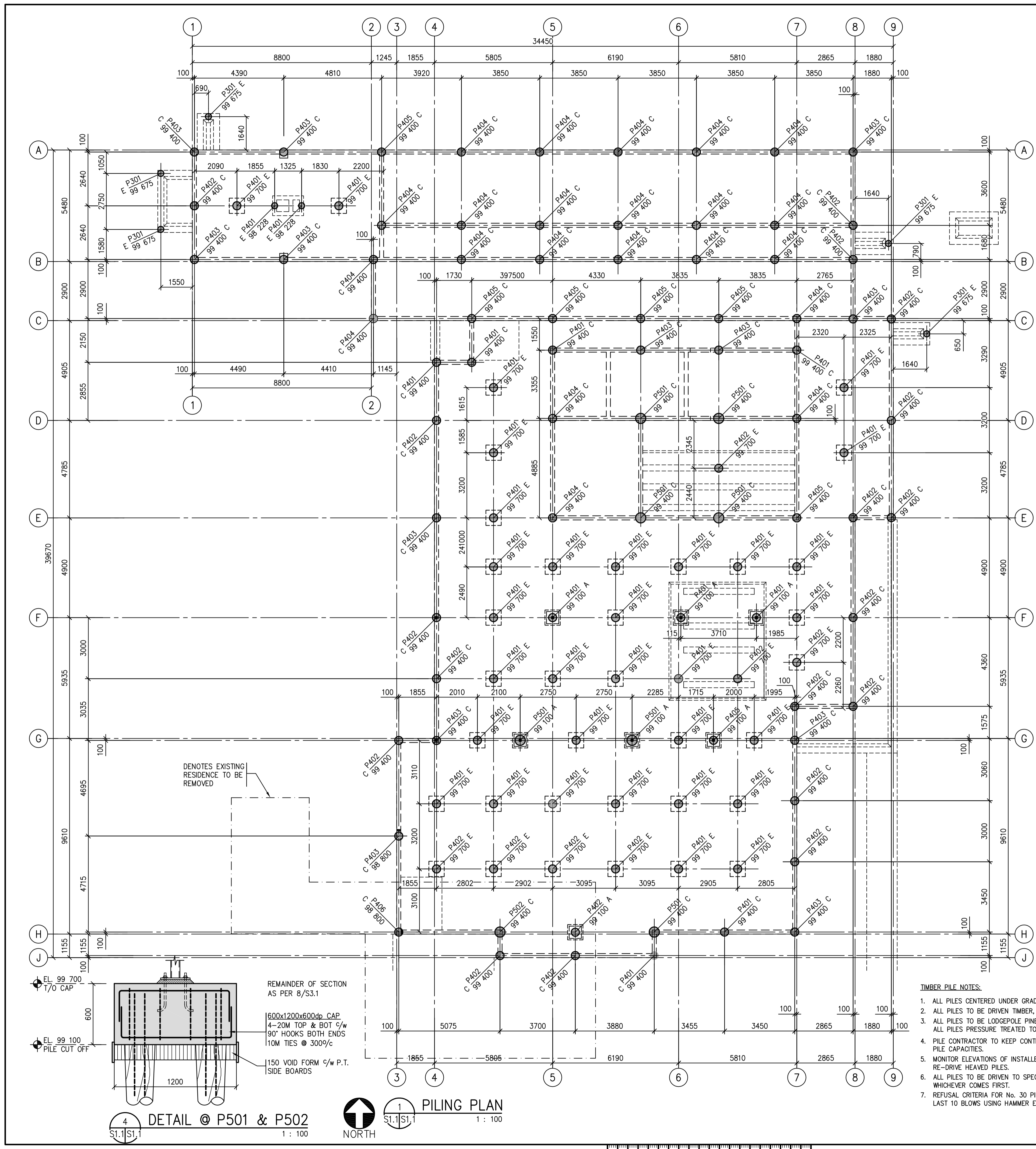
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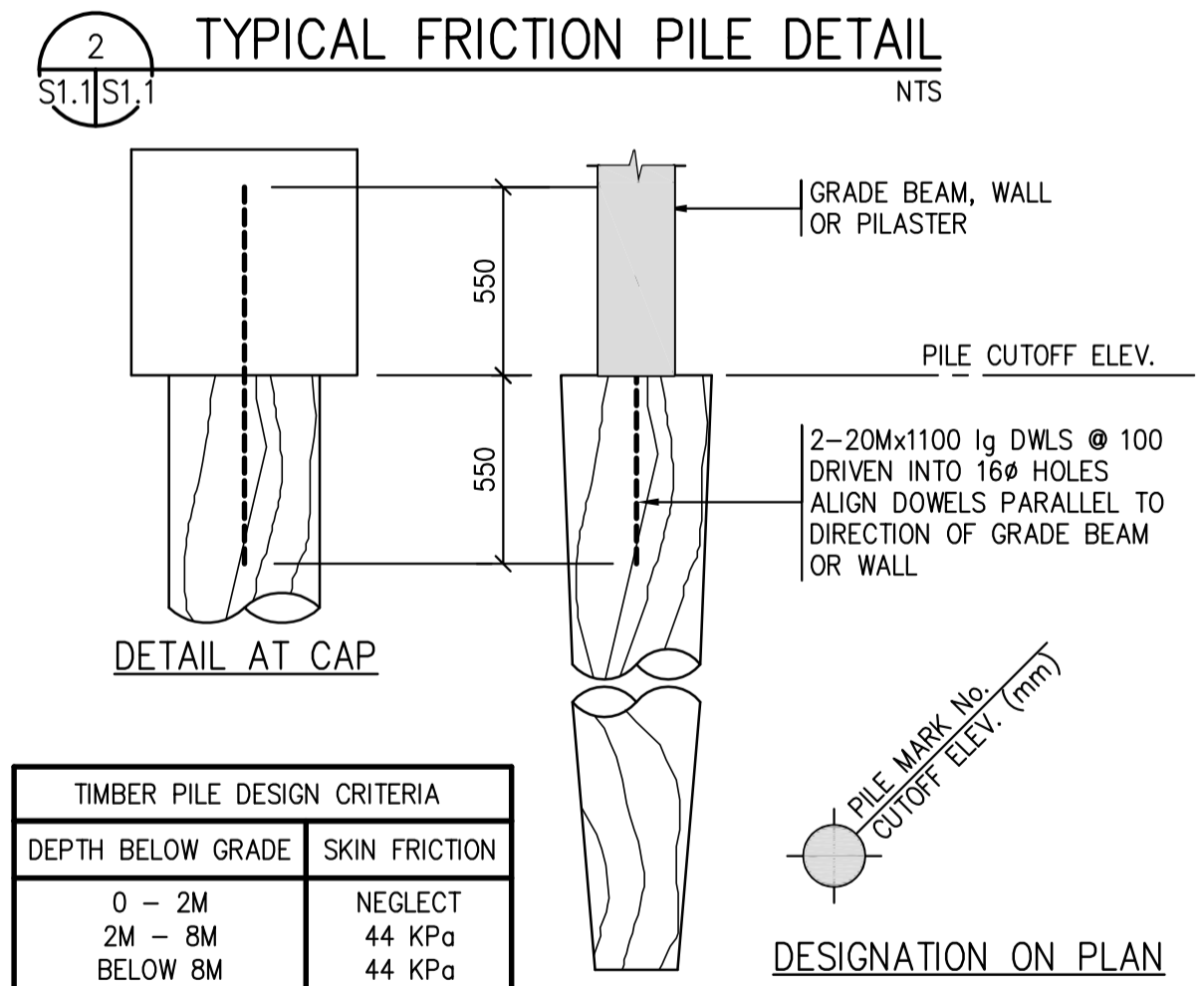
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PILE DESIGN CRITERIA	
PILE DESIGN CRITERIA TAKEN FROM GEOTECHNICAL REPORT PREPARED BY CLIFTON ASSOCIATES, FILE No. 52091, DATED FEB 9, 2015.	
DEPTH BELOW GRADE (M)	SKIN FRICTION (KPa)
0 - 2M	NEGLECT
2M - 8M	27.2
BELOW 8M	38.4

PILE REINFORCING SCHEDULE					
PILE MARK No.	PILE SHAFT DIA.	PILE LENGTH	VERTICAL REINF.	HORIZONTAL TIES	REMARKS
P301	300	4500	2-15Mx4500	NONE	-
P401	400	6000	4-15Mx4200	10M @ 400	-
P402	400	7000	4-15Mx4700	10M @ 400	-
P403	400	8500	4-15Mx5700	10M @ 400	-
P404	400	10500	4-15Mx7000	10M @ 400	-
P405	400	11500	4-15Mx7700	10M @ 400	-
P406	400	9500	4-15Mx7000	10M @ 400	-
P501	500	11000	5-15Mx7400	10M @ 400	-
P502	500	12000	5-15Mx8000	10M @ 400	-

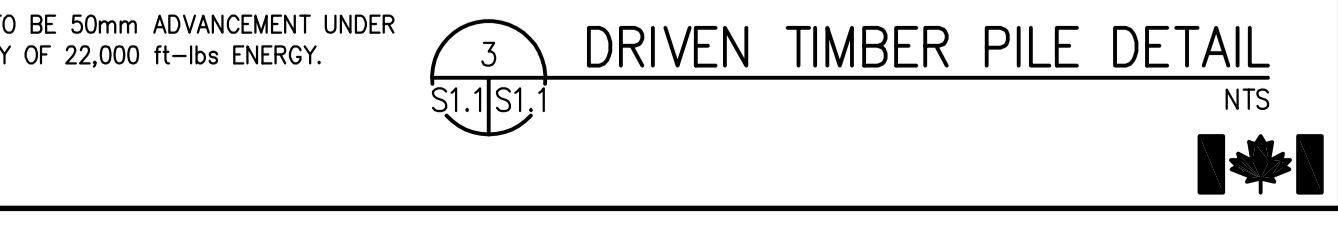
- NOTES:**
- ALL PILES TO BE CUTOFF AT ELEVATION DENOTED ON SCHEDULE U.N.O. ON PLAN.
 - REINFORCING LENGTHS DO NOT INCLUDE EXTENSIONS OR HOOKS.
 - CONTINUOUS SPIRAL TIES ACCEPTABLE ALTERNATE TO HORIZONTAL TIES.
- DOWEL NOTES:**
- EXTEND VERTICAL REINF. 550mm ABOVE PILE CUTOFF.
 - EXTEND VERTICAL REINF. 500mm ABOVE PILE CUTOFF c/w 90° HOOKS.
 - 2-20M x 1100 lg. EXTEND 550mm ABOVE PILE CUTOFF.
 - 4-20M x 1100 lg. EXTEND 550mm ABOVE PILE CUTOFF.
 - EXTEND VERTICAL REINF. 735mm INTO STRUCTURAL SLAB AND BEND DOWN ON SITE.



TIMBER PILE DESIGN CRITERIA	
DEPTH BELOW GRADE	SKIN FRICTION
0 - 2M	NEGLECT
2M - 8M	44 KPa
BELOW 8M	44 KPa

TIMBER PILE SCHEDULE				
PILE MARK No.	PILE CAPACITY	PILE SHAFT DIA.	LENGTH	REMARKS
P301	65 KN	No. 25	4000	
P401	115 KN	No. 25	5500	
P402	150 KN	No. 25	6500	
P403	235 KN	No. 30	7700	
P404	285 KN	No. 30	9000	
P405	330 KN	No. 35	9000	
P406	373 KN	No. 35	10000	
P501	450 KN	2-No. 30	7500	4-20Mx1000 DWLS
P502	500 KN	2-No. 30	8200	4-20Mx1000 DWLS

- TIMBER PILE NOTES:**
- ALL PILES CENTERED UNDER GRADE BEAMS AND WALLS.
 - ALL PILES TO BE DRIVEN TIMBER, MINIMUM SIZE AS DETAILED.
 - ALL PILES TO BE LODGEPOLE PINE OR BETTER TO CSA 056-M79. ALL PILES PRESSURE TREATED TO CSA 080-M83.
 - PILE CONTRACTOR TO KEEP CONTINUOUS DRIVING RECORD TO VERIFY PILE CAPACITIES.
 - MONITOR ELEVATIONS OF INSTALLED PILES TO EVALUATE PILE HEAVE. RE-DRIVE HEAVED PILES.
 - ALL PILES TO BE DRIVEN TO SPECIFIED LENGTH OR PRACTICAL REFUSAL, WHICHEVER COMES FIRST.
 - REFUSAL CRITERIA FOR No. 30 PILES TO BE 50mm ADVANCEMENT UNDER LAST 10 BLOWS USING HAMMER ENERGY OF 22,000 ft-lbs ENERGY.



SEPW Architecture Inc.
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 102 - 3718 Kenebec Place Saskatoon, SK S7P 2A6 ph: (306) 552-6457
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 TEL: (306) 584-8833 + EMAIL: bbbkregina@bbkeng.ca

PROFESSIONAL ENGINEER
 S.S.G. KILBACK
 MEMBER 12122
 2015 09 24
 1/2 M. DAY
 SASKATCHEWAN

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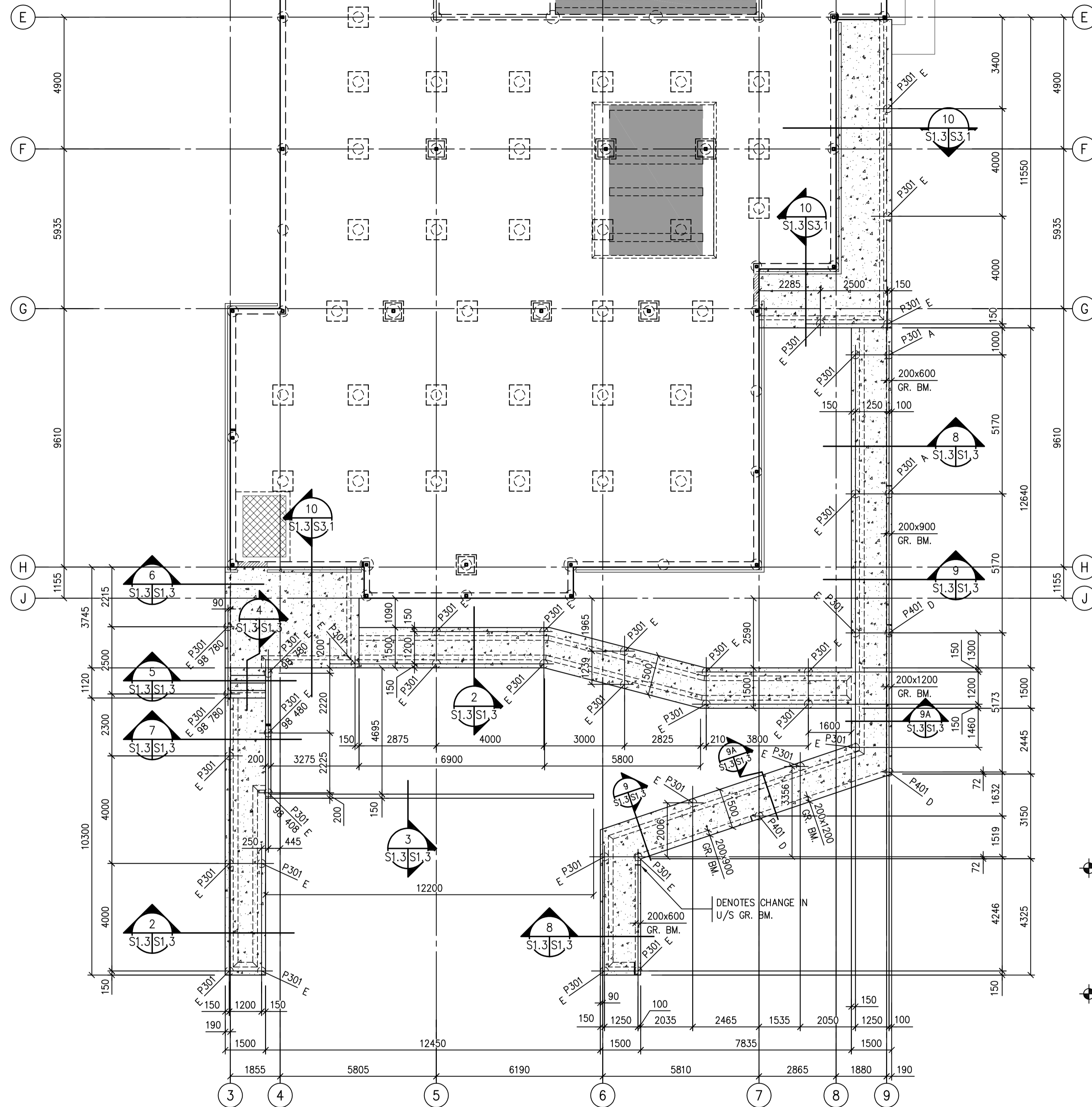
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PILING PLAN

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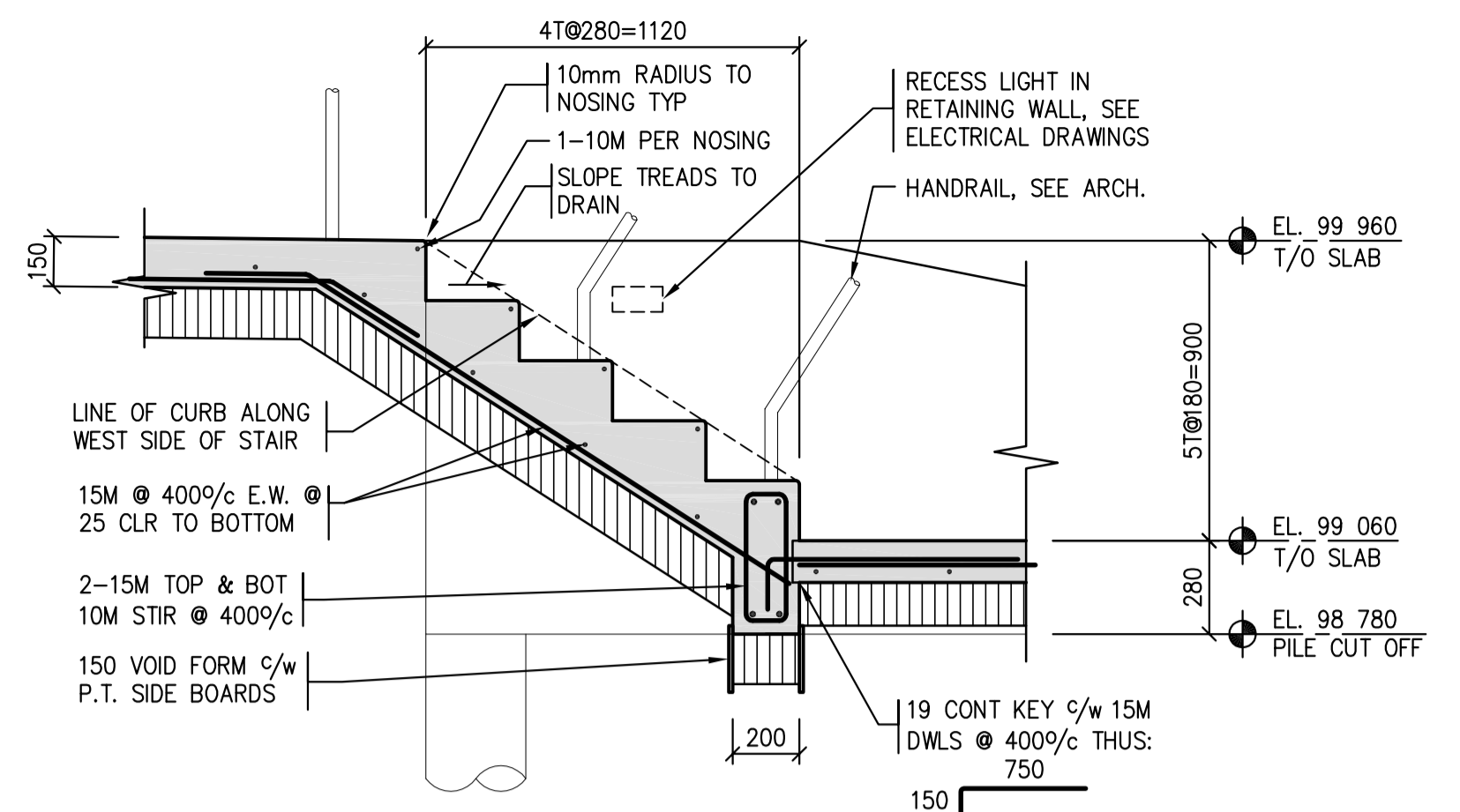
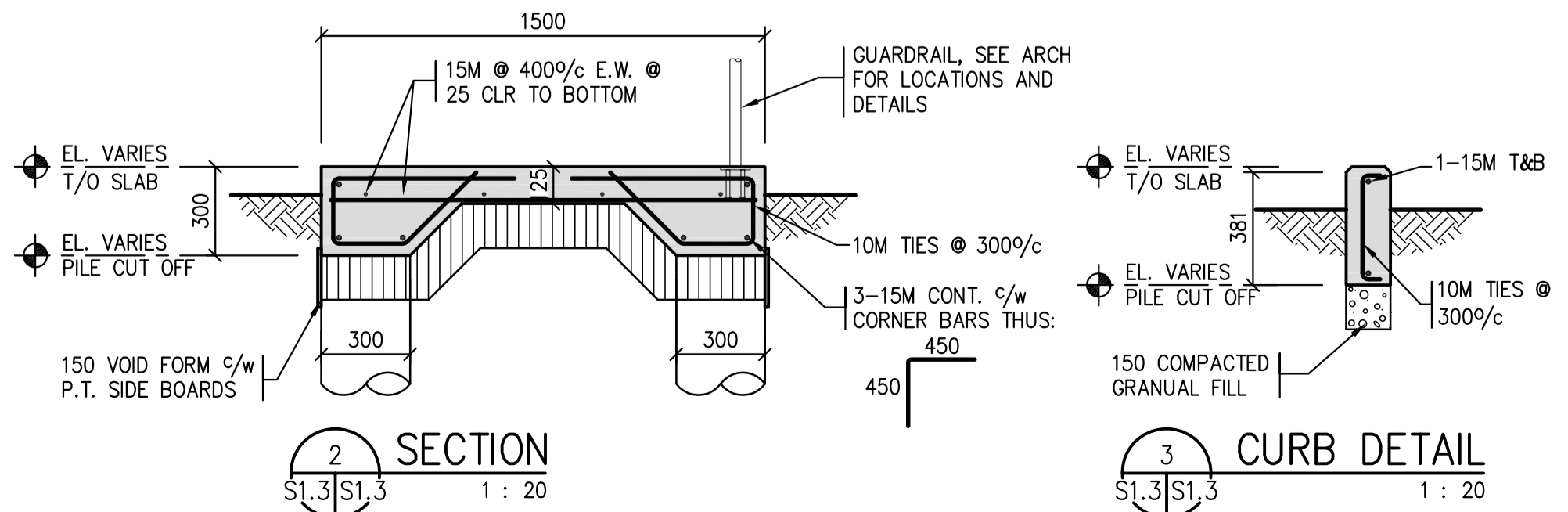
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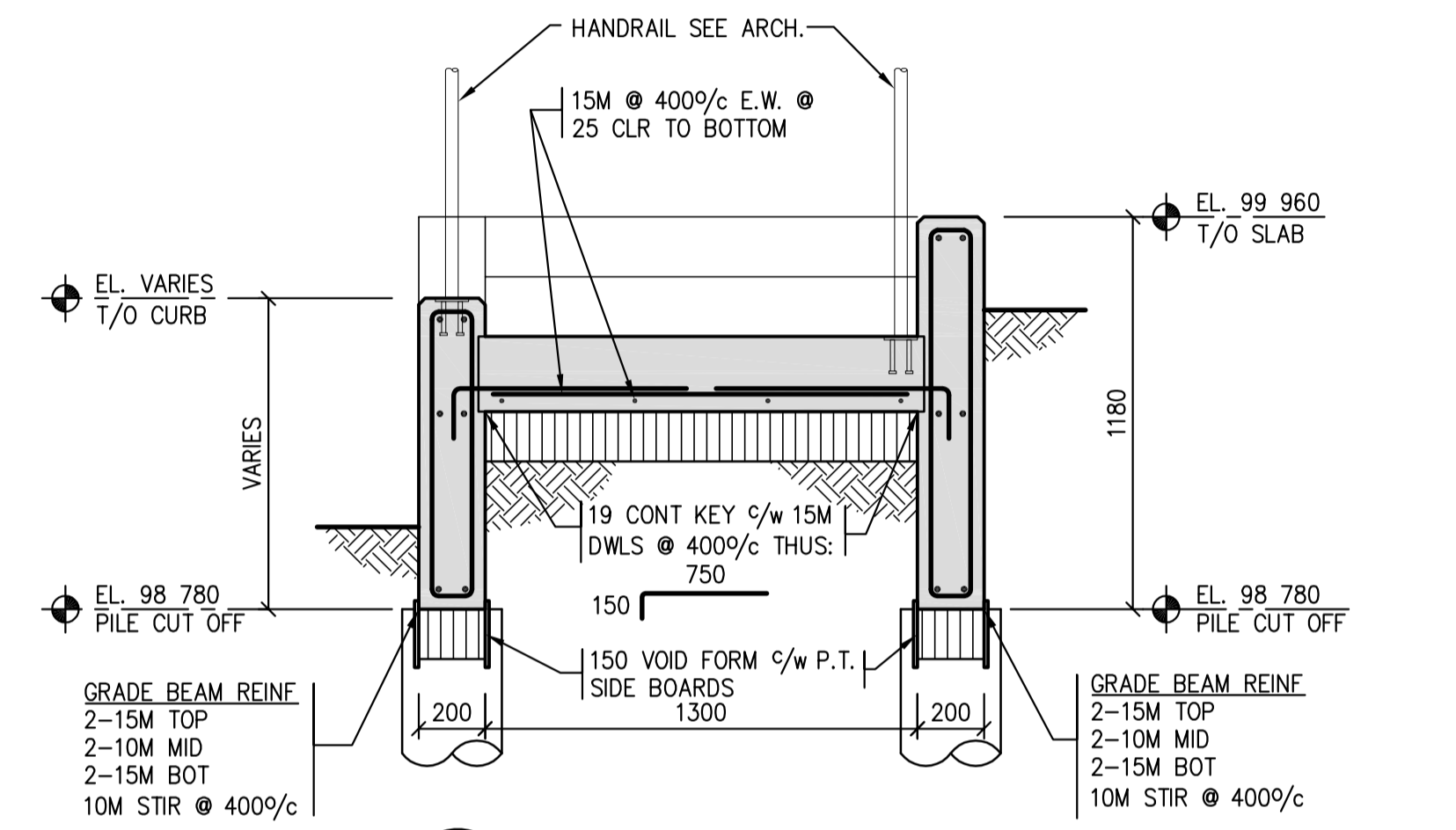


1 PLAN - EXTERIOR STRUCTURAL WALKS AND RETAINING WALLS
1 : 100

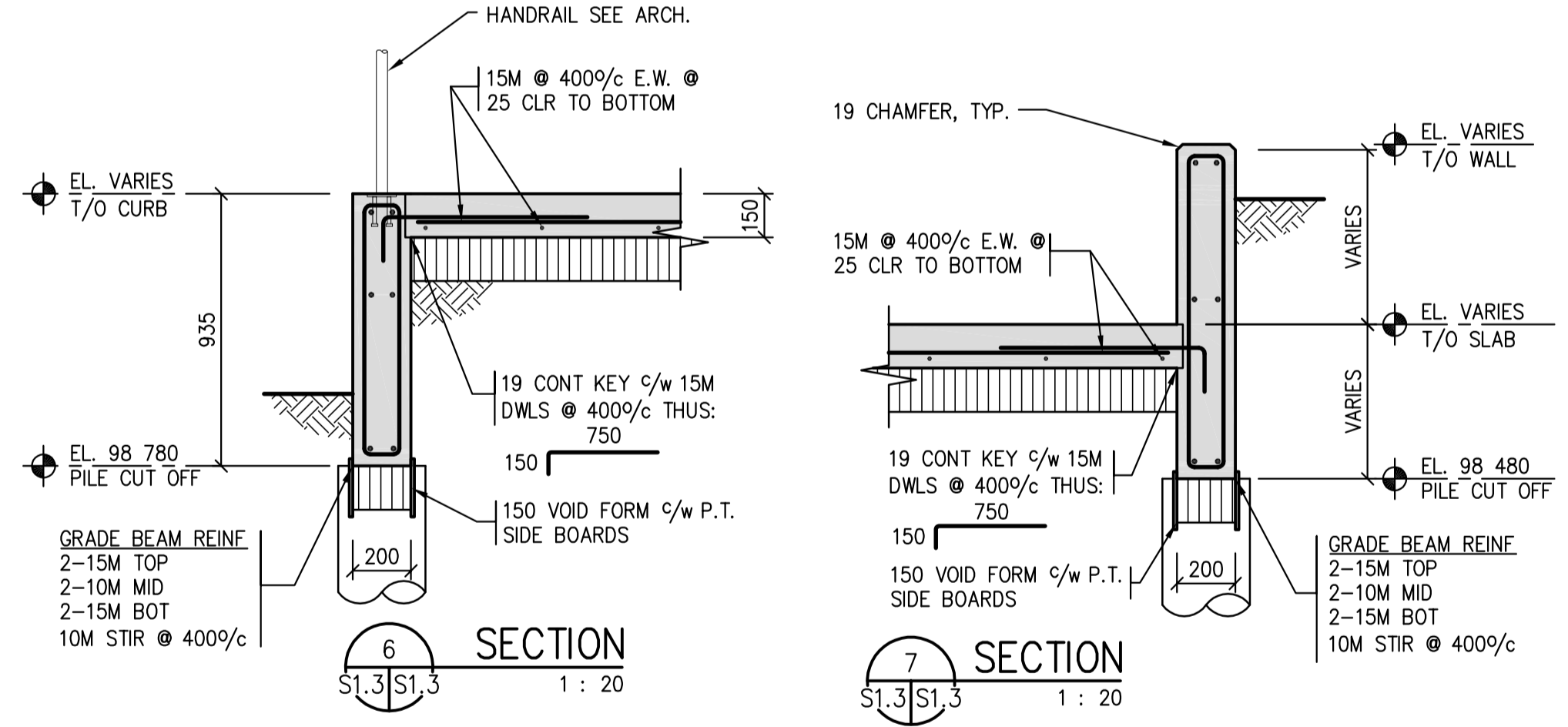
NOTE:
 1. CONFIRM ALL DIMENSIONS WITH ARCH DWGS.
 2. REFER TO SITE GRADING PLAN FOR T/O CONCRETE ELEVATIONS NOT SHOWN ON PLAN.
 3. ALL PILES BELOW SIDEWALKS TO BE CUT OFF TO SUIT SIDEWALK ELEVATIONS.



4 SECTION THRU STAIR
1 : 20



5 SECTION THRU STAIR
1 : 20



6 SECTION
1 : 20

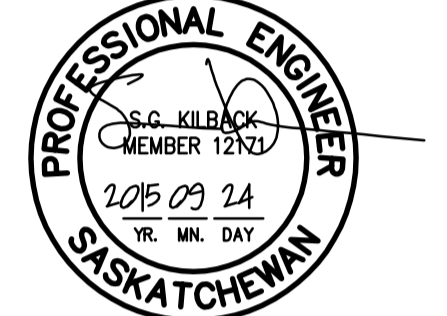
7 SECTION
1 : 20

8 SECTION
1 : 20

9,9A SECTION
1 : 20

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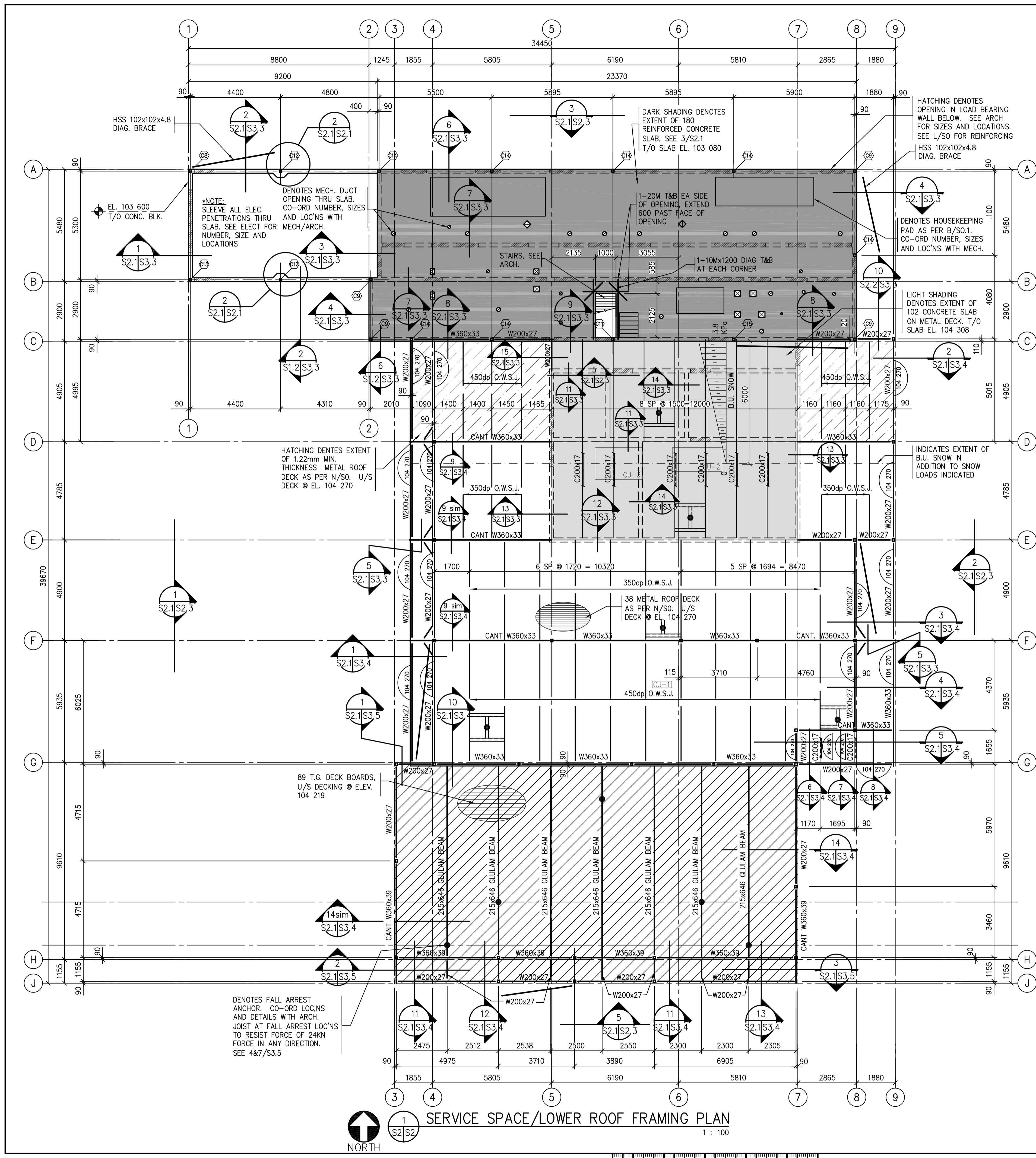
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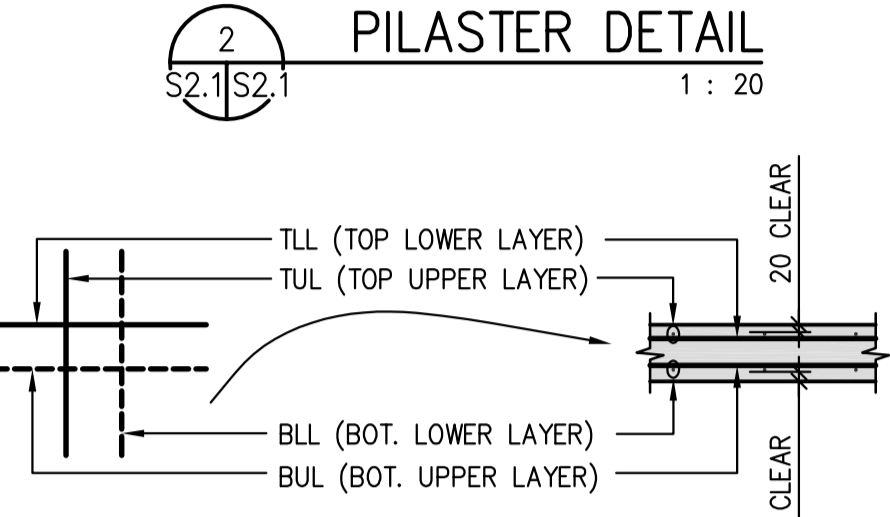
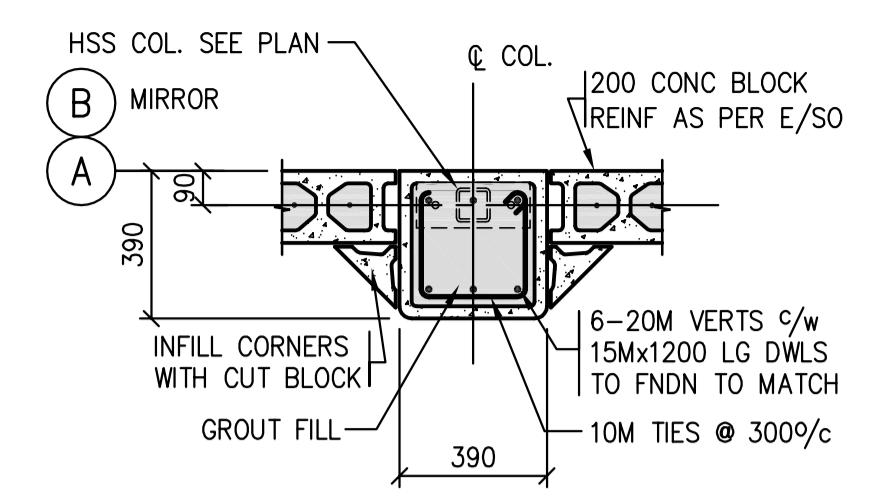
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PLAN OF EXTERIOR STRUCTURAL WALKS AND RETAINING WALLS

Project No./No. du projet: 24/2014
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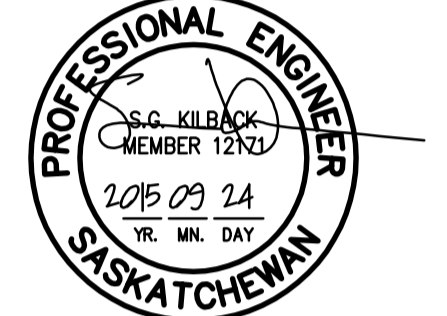
1 SERVICE SPACE/LOWER ROOF FRAMING PLAN
1 : 100



- TYPICAL BOTTOM REINFORCING
BUL: 10M @ 400%
BLL: 15M @ 400%
TUL: 15M @ 300%
TLL: 10M @ 300%

3 180 STRUCTURAL SLAB REINFORCING
1 : 20

- NOTES:**
- REFER TO DRAWING S-0 FOR GENERAL NOTES.
 - TYPICAL ROOF CONSTRUCTION TO BE
38dp x 0.91 ROOF DECK AS SPECIFIED OVER O.W.S.J.
100 JOIST SEAT, TYP.
U/S STEEL ROOF DECK AT ELEVATION 104 270 UNLESS NOTED OTHERWISE.
 - ROOF DESIGN LOADS**
DEAD LOAD = 1.2 kPa
SNOW LOAD = 2.5 kPa (PLUS BUILT-UP SNOW LOAD INDICATED ON PLAN AS PER N.B.C.C.)
 - TOP OF STEEL AT ELEVATION 104 170 UNLESS NOTED OTHERWISE THUS.
 - ROOF CONSTRUCTION DENOTED BY LIGHT SHADING TO BE:
102 CONCRETE SLAB ON METAL DECK, REFER TO TYPICAL SLAB ON DECK DETAIL ON DRAWING S0
STEEL FRAMING AS NOTED ON PLAN.
REFER TO TYPICAL DECK WELD DETAIL ON DRAWING S0.
 - T/O CONCRETE SLAB ON DECK @ ELEVATION 104 308.
 - T/O STEEL AT CONC. SLAB ON DECK AT ELEVATION 104 206 U.N.O.
 - ROOF DESIGN LOADS @ SLAB ON DECK (LIGHT SHADE)**
LIVE LOAD = 2.5 kPa
STRUCTURAL FRAMING & SLAB DEAD LOAD = 2.6 kPa
ROOF DEAD LOAD = 1.0 kPa
 - SERVICE SPACE FLOOR CONSTRUCTION DENOTED BY DARK SHADING TO BE:
180 REINFORCED CONCRETE SLAB
REFER TO TYPICAL STRUCTURAL SLAB REINFORCING DETAIL 2/S2.1
 - T/O SERVICE SPACE CONCRETE SLAB @ ELEVATION 103 080.
 - FLOOR DESIGN LOADS (DARK SHADE)**
LIVE LOAD = 4.8 kPa
DEAD LOAD (SLAB) = 4.2 kPa
COLLATERAL DEAD LOAD = 0.75 kPa
 - ROOF CONSTRUCTION DENOTED BY HATCHING TO BE
89 WOOD ROOF DECKING OVER GULLAM BEAMS AS NOTED ON PLAN.
U/S WOOD ROOF DECK ELEVATION 104 219.
 - ROOF DESIGN LOADS AT WOOD DECK (HATCHED)
DEAD LOAD = 1.7 kPa @ WOOD DECK
SNOW LOAD = 2.5 kPa (PLUS BUILT-UP SNOW LOAD AS INDICATED ON PLAN AS PER N.B.C.C.)
 - TOP OF STEEL AT WOOD ROOF AT ELEV. 104 219 UNLESS NOTED OTHERWISE.
 - COLUMNS DENOTED ON PLAN THUS SEE TYPICAL COLUMN & BASE PLATE SCHEDULE ON DRAWING S2.2.
 - REFER TO DRAWING S-0 FOR MASONRY LINTEL SCHEDULE.
 - ROOF FRAMING AND CONNECTIONS INCLUDING DECKING MATERIAL TO BE DESIGNED FOR 0.75 kPa UPLIFT.



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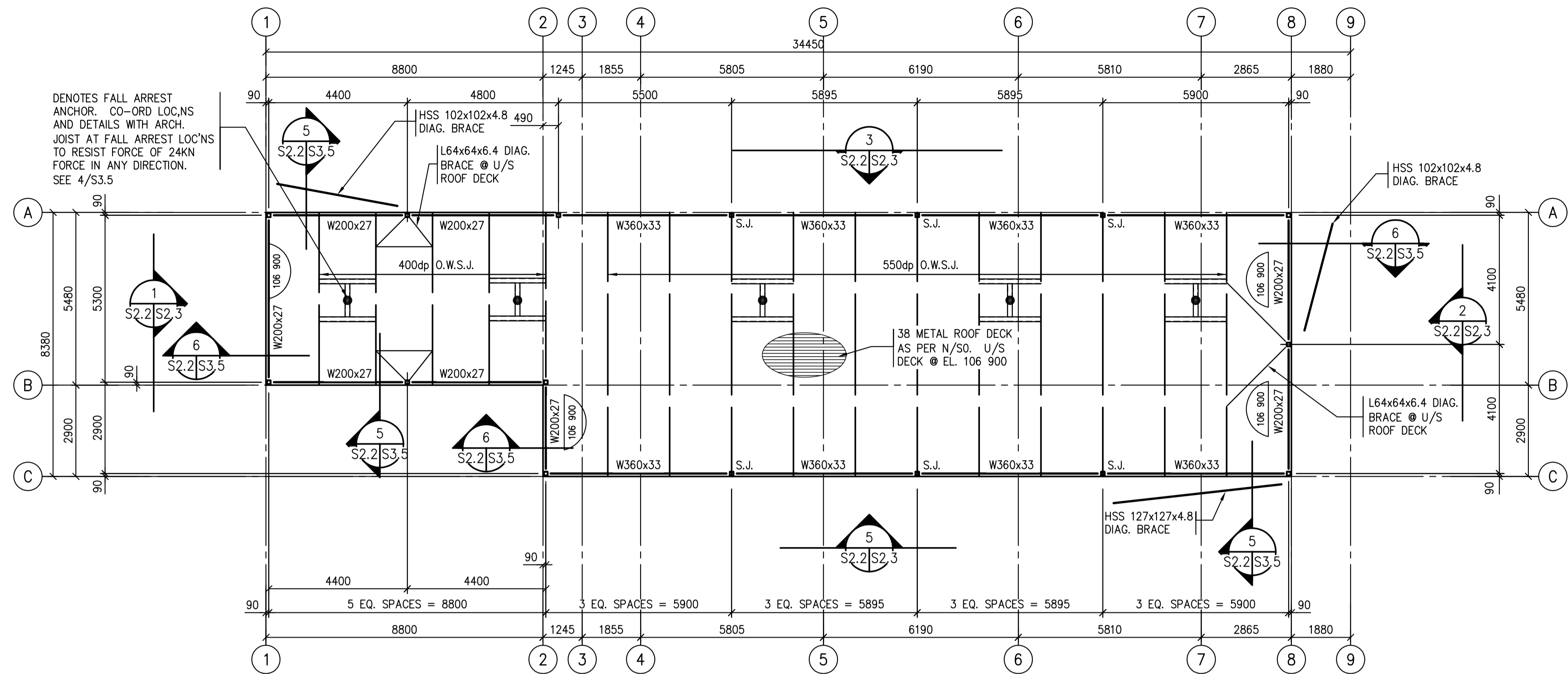
Project title/Titre du projet
**NEW POLICE BUILDING
ONION LAKE, SASKATCHEWAN**

Approved by/Approve par
S.K.
Designed by/Concept par
B.R.
Drawn by/Dessine par
Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architecturales et de Directeur d'Ingénierie

Drawing title/Titre du dessin
**SERVICE SPACE / LOWER ROOF
FRAMING PLAN**

Project No./No. du projet 24/2014	Sheet/Fauille S2.1	Revision no./ La Révision no. 0
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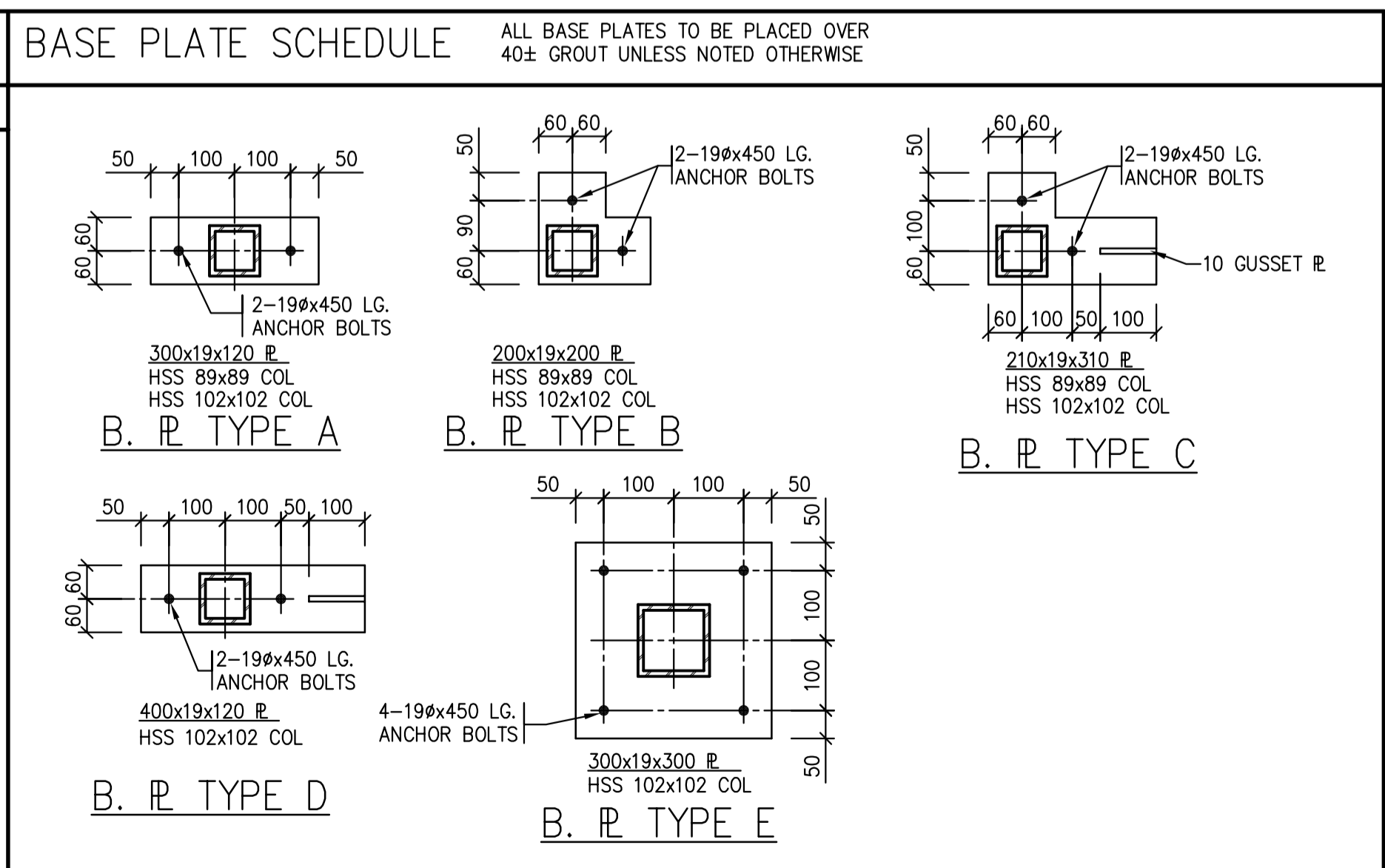


1 SERVICE SPACE ROOF FRAMING PLAN
1 : 100

NOTES:

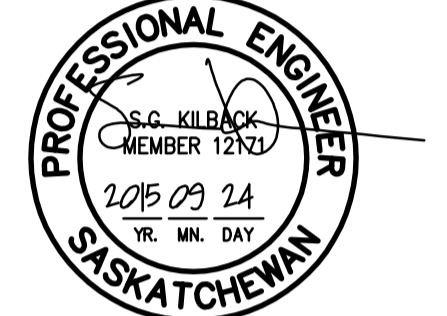
- REFER TO DRAWING S-0 FOR GENERAL NOTES.
- ROOF CONSTRUCTION TO BE:
38dp x 0.91 ROOF DECK AS SPECIFIED OVER O.W.S.J. (100 JOIST SEAT, TYP.)
U/S ROOF DECK ELEVATION AT ELEV. 106.900.
- ROOF DESIGN LOADS AT METAL DECK:
DEAD LOAD = 1.2 kPa
SNOW LOAD = 2.3 kPa (PLUS BUILT-UP SNOW LOAD AS PER N.B.C.C.)
- ROOF FRAMING AND CONNECTIONS INCLUDING DECKING MATERIAL TO BE DESIGNED TO RESIST 0.75 KPa UPLIFT LOAD.
- TOP OF STEEL AT ELEVATION 106.800 UNLESS NOTED OTHERWISE THUS:
- "S.J." DENOTES STRUT JOIST.

MARK NO.	COLUMN SIZE	BASE PL. TYPE	U/S PL. ELEVATION	REMARKS
C1	HSS 89x89x4.8	A	100 040	COLUMN MARK No. DESIGNATION ON PLAN
C2	HSS 89x89x4.8	B	100 040	
C3	HSS 102x102x4.8	A	100 040	
C4	HSS 102x102x4.8	D	100 040	
C5	HSS 102x102x4.8	B	100 040	
C6	HSS 102x102x4.8	C	100 040	
C7	HSS 89x89x4.8	E	99 740	
C8	HSS 89x89x4.8	C	103 640	
C9	HSS 89x89x4.8	C	102 940	
C10	HSS 102x102x6.4	E	99 740	
C11	HSS 89x89x4.8	D	104 240	
C12	HSS 89x89x4.8	A	103 640	
C13	HSS 89x89x4.8	B	103 640	
C14	HSS 89x89x4.8	A	102 940	
C15	HSS 89x89x4.8	A	104 240	
C16	HSS 102x102x6.4	E	99 740	



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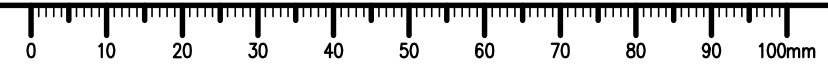
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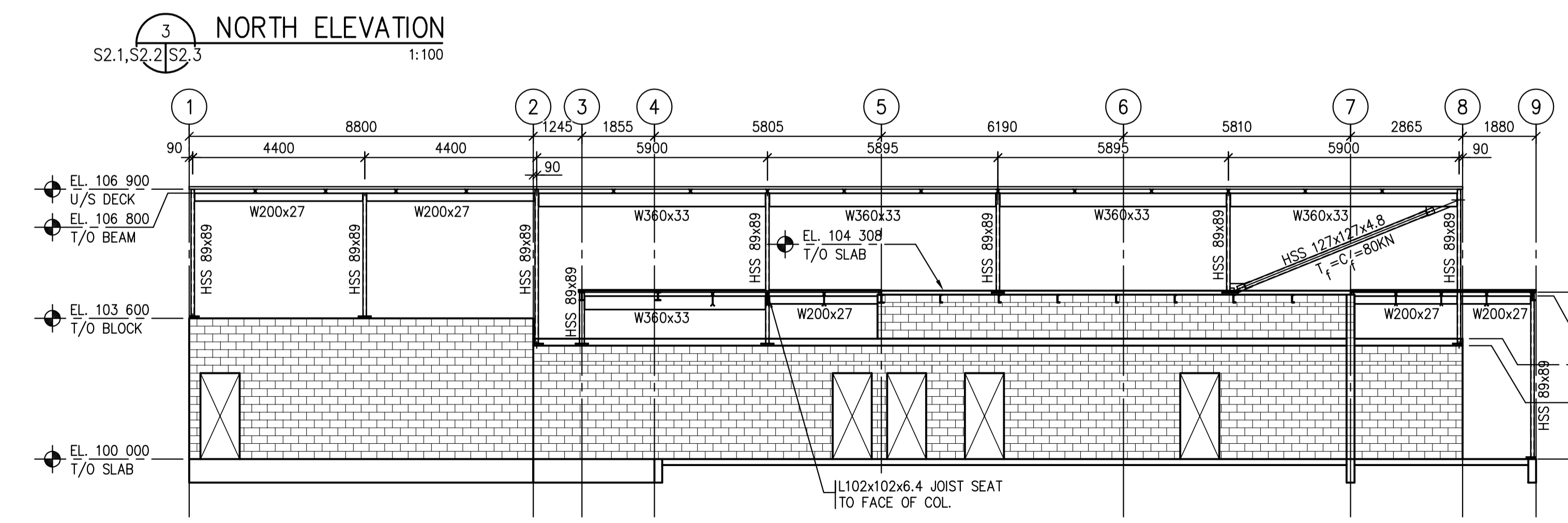
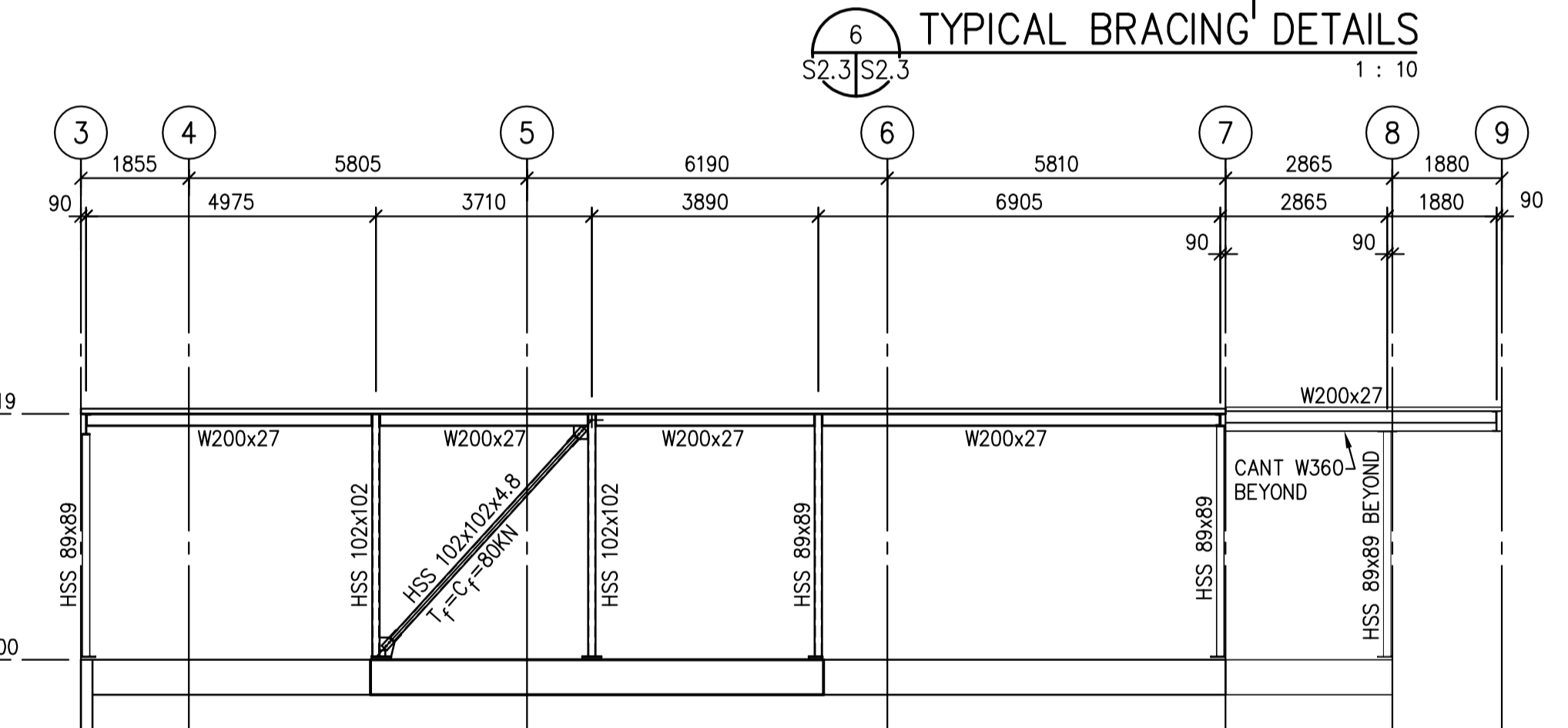
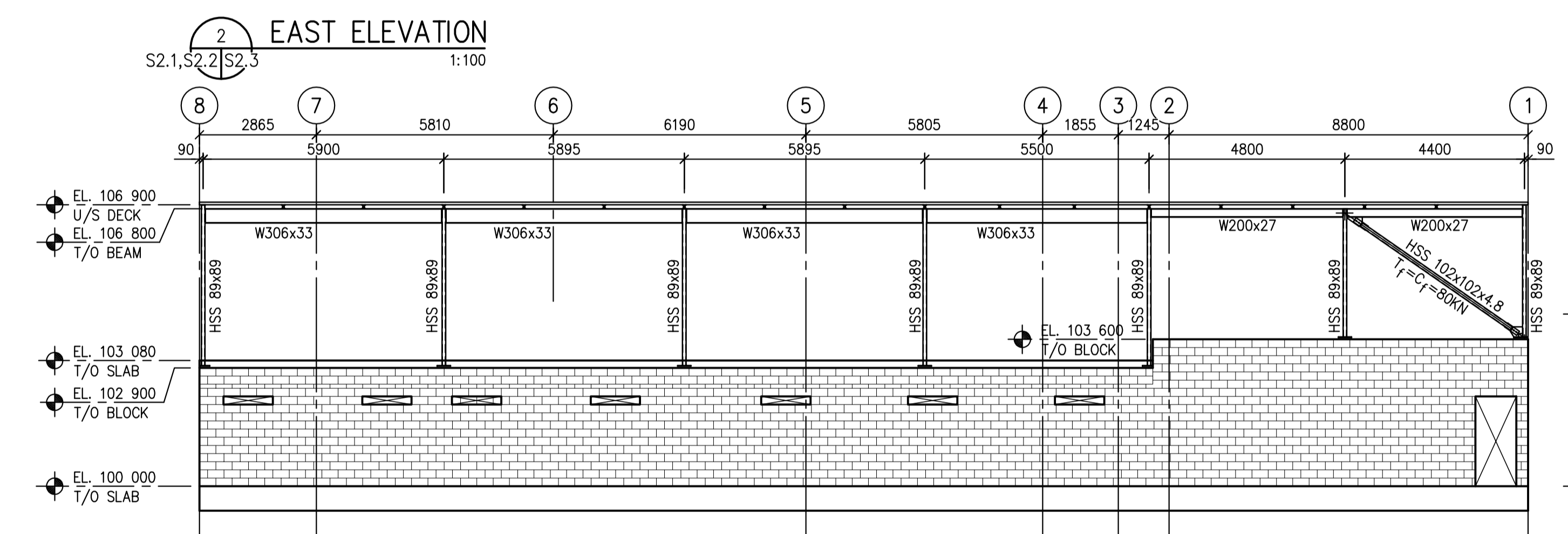
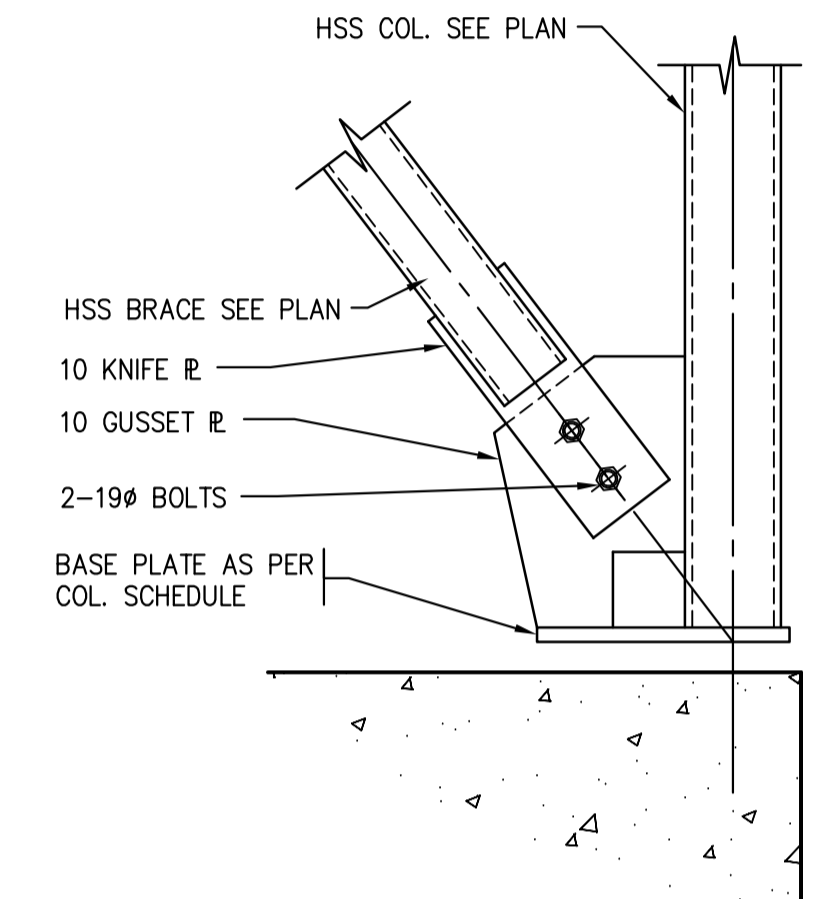
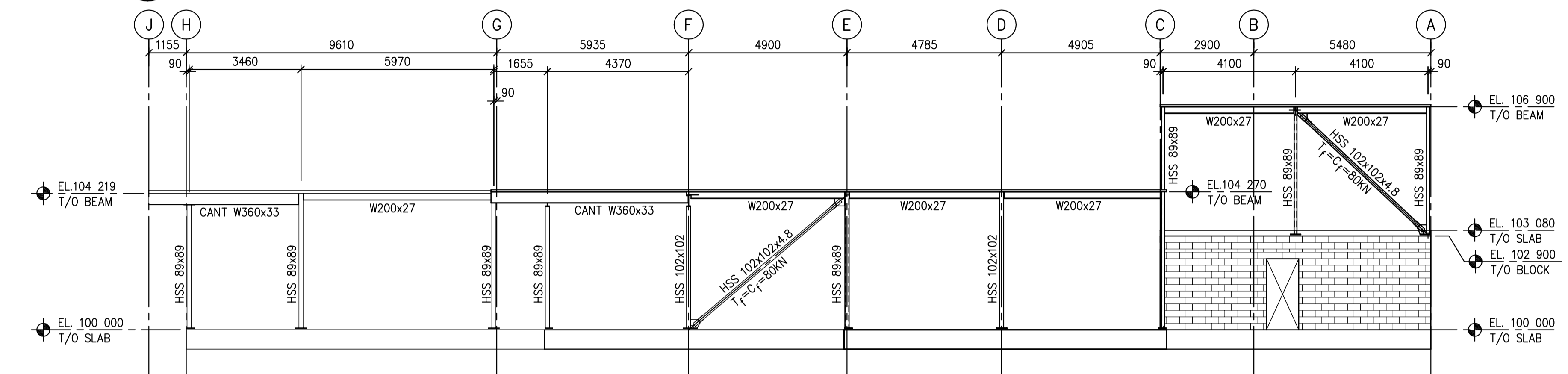
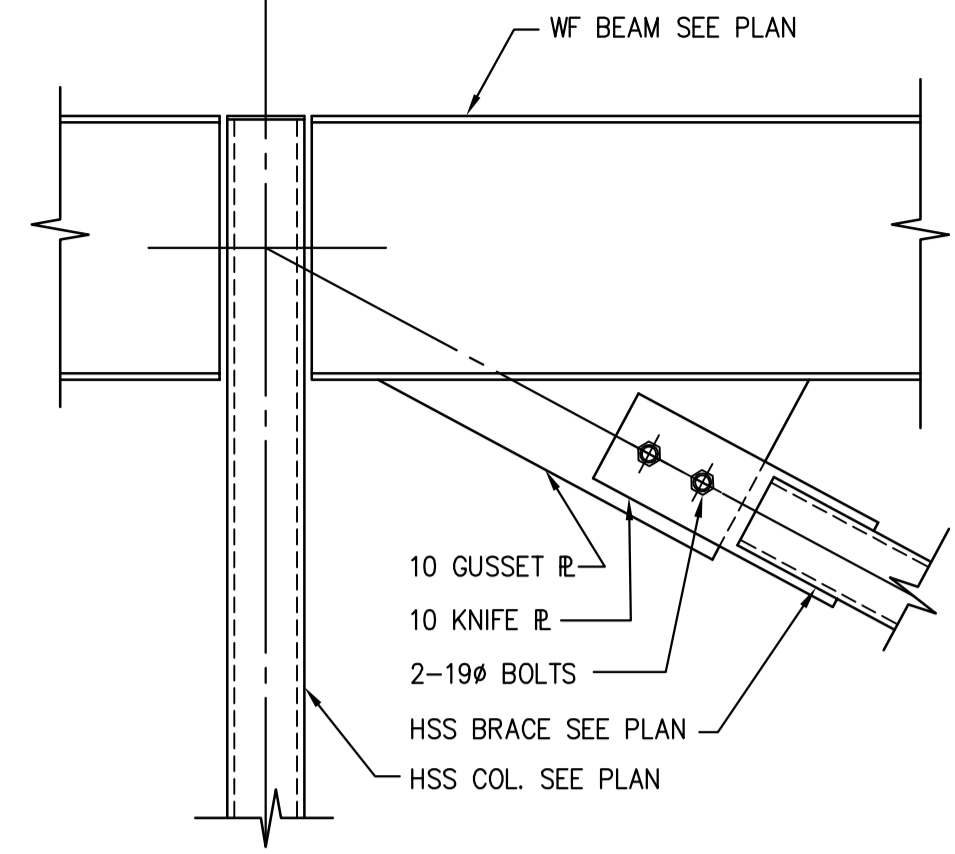
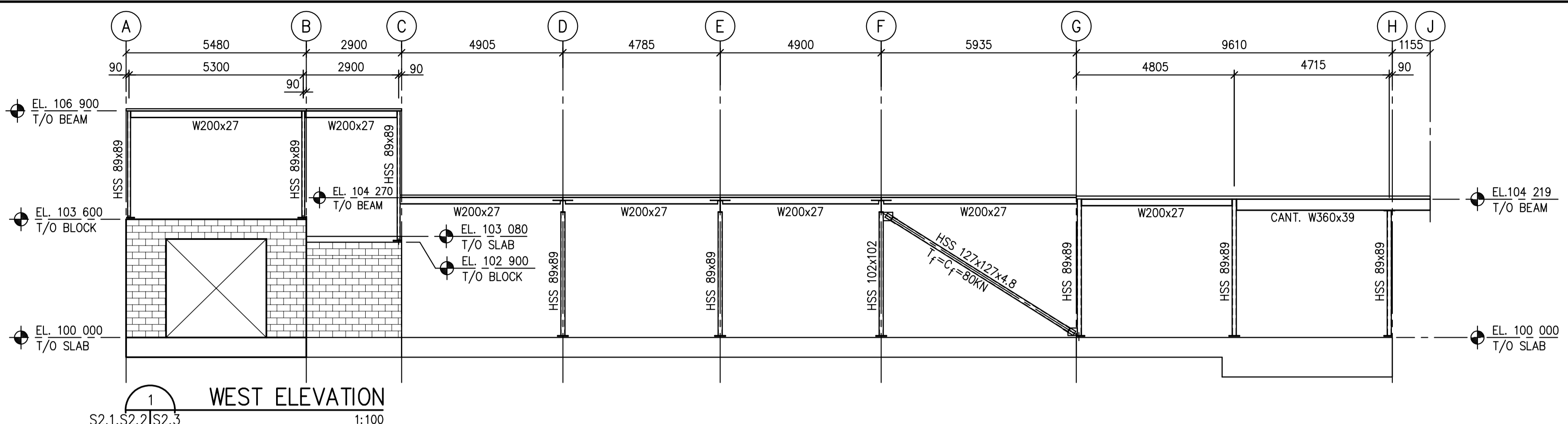
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**SERVICE SPACE ROOF FRAMING
PLAN**

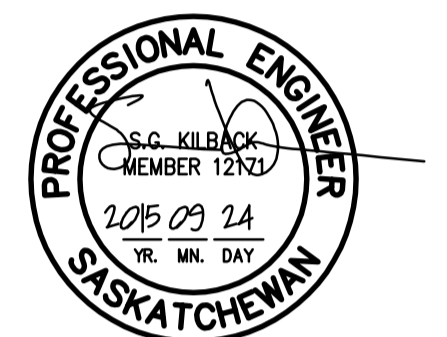
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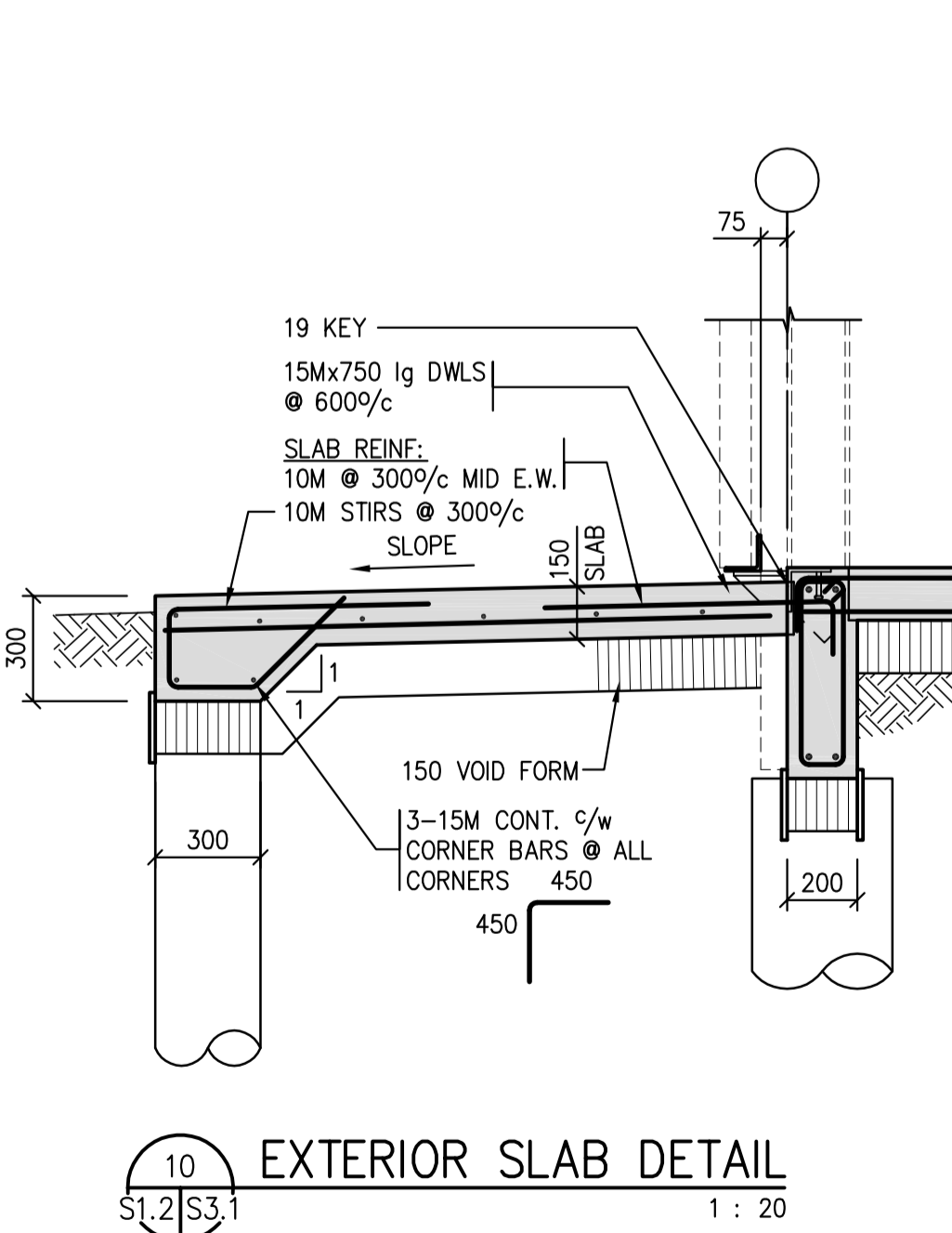
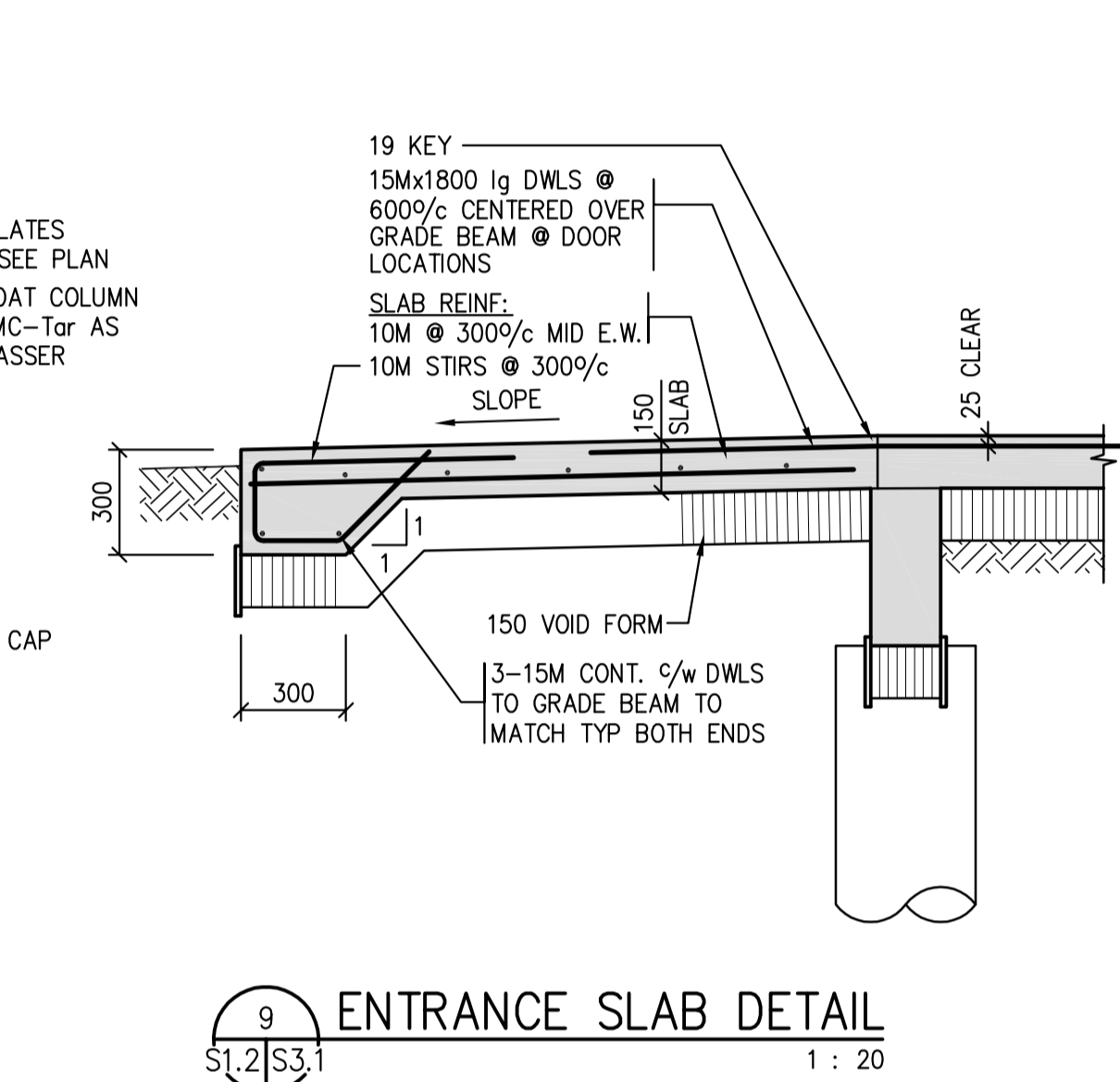
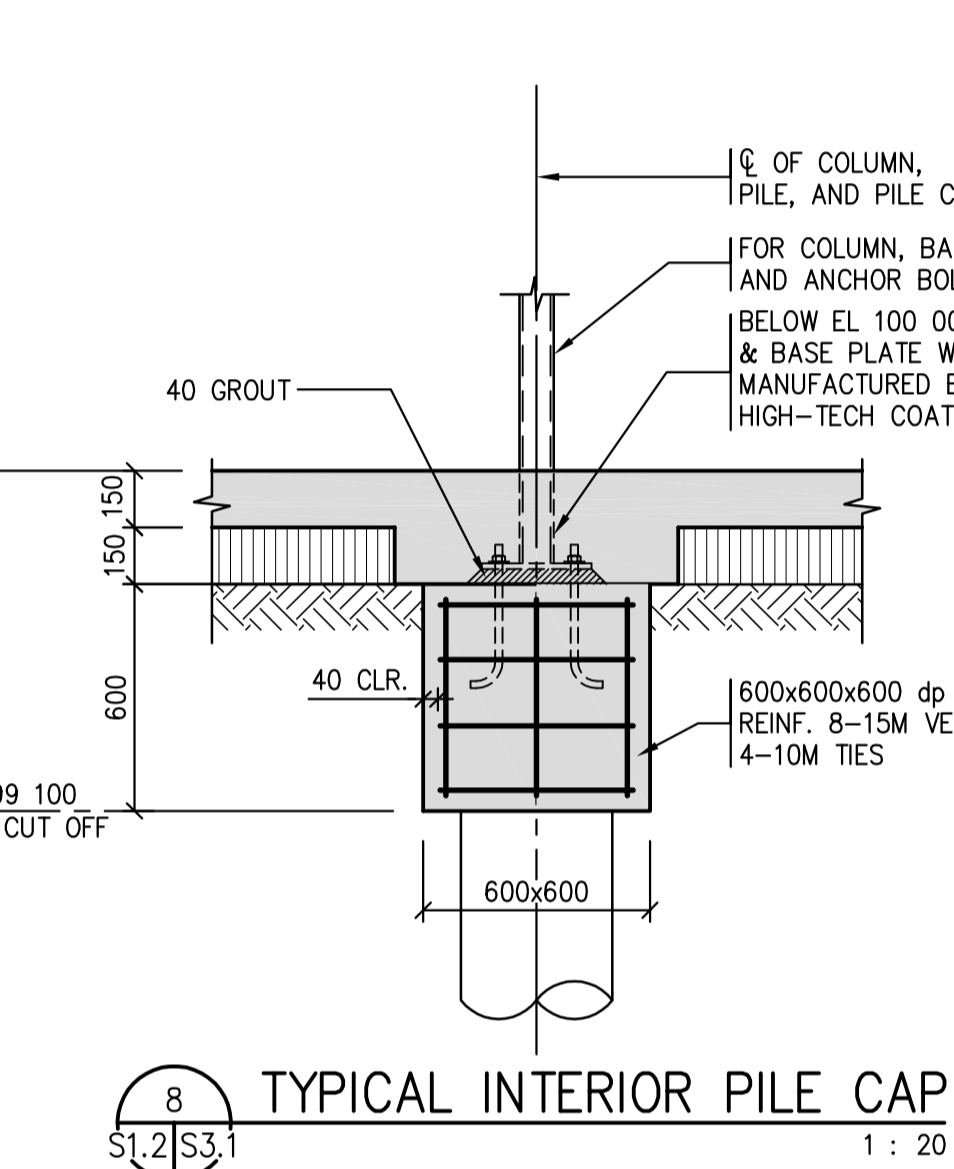
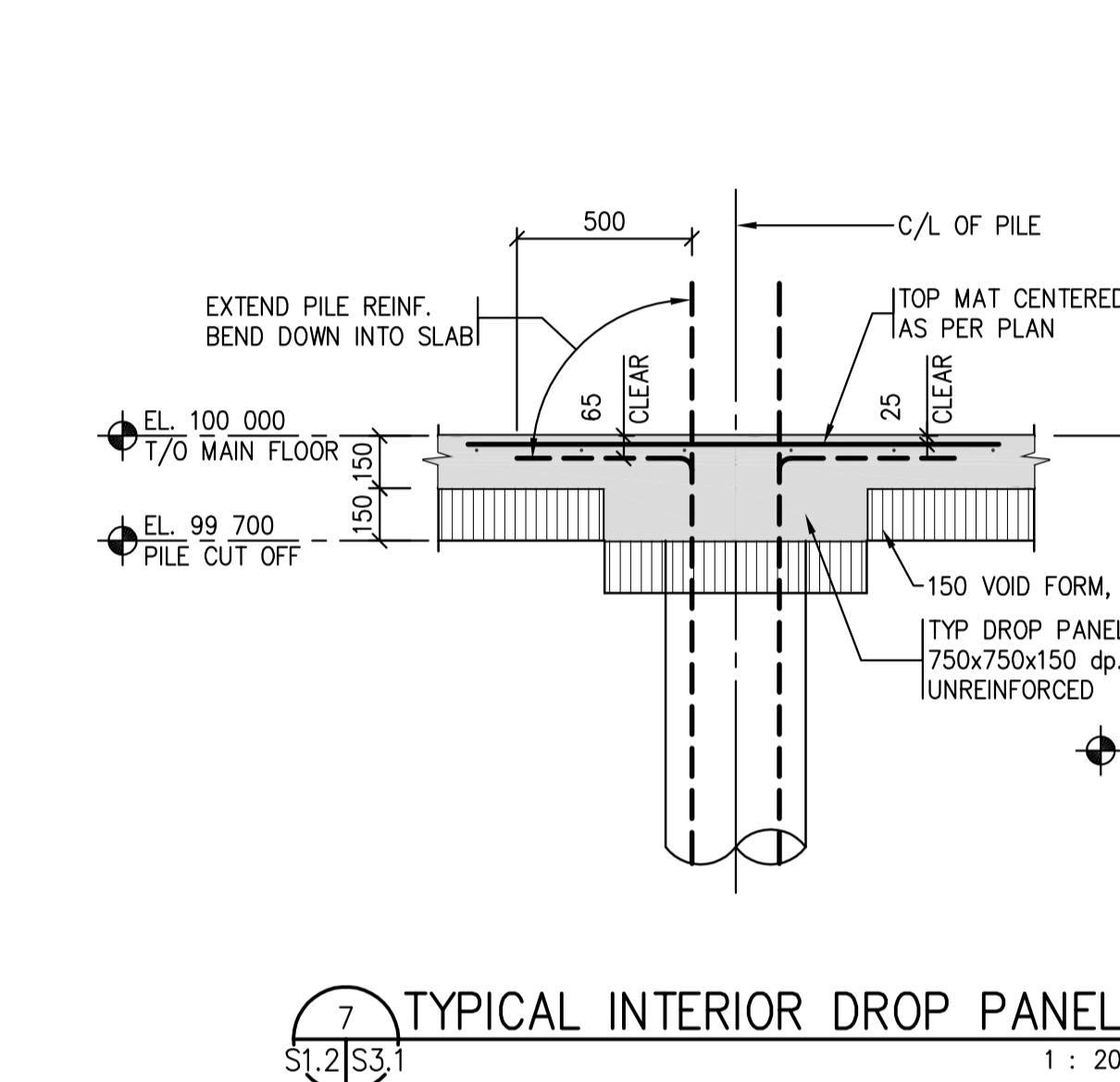
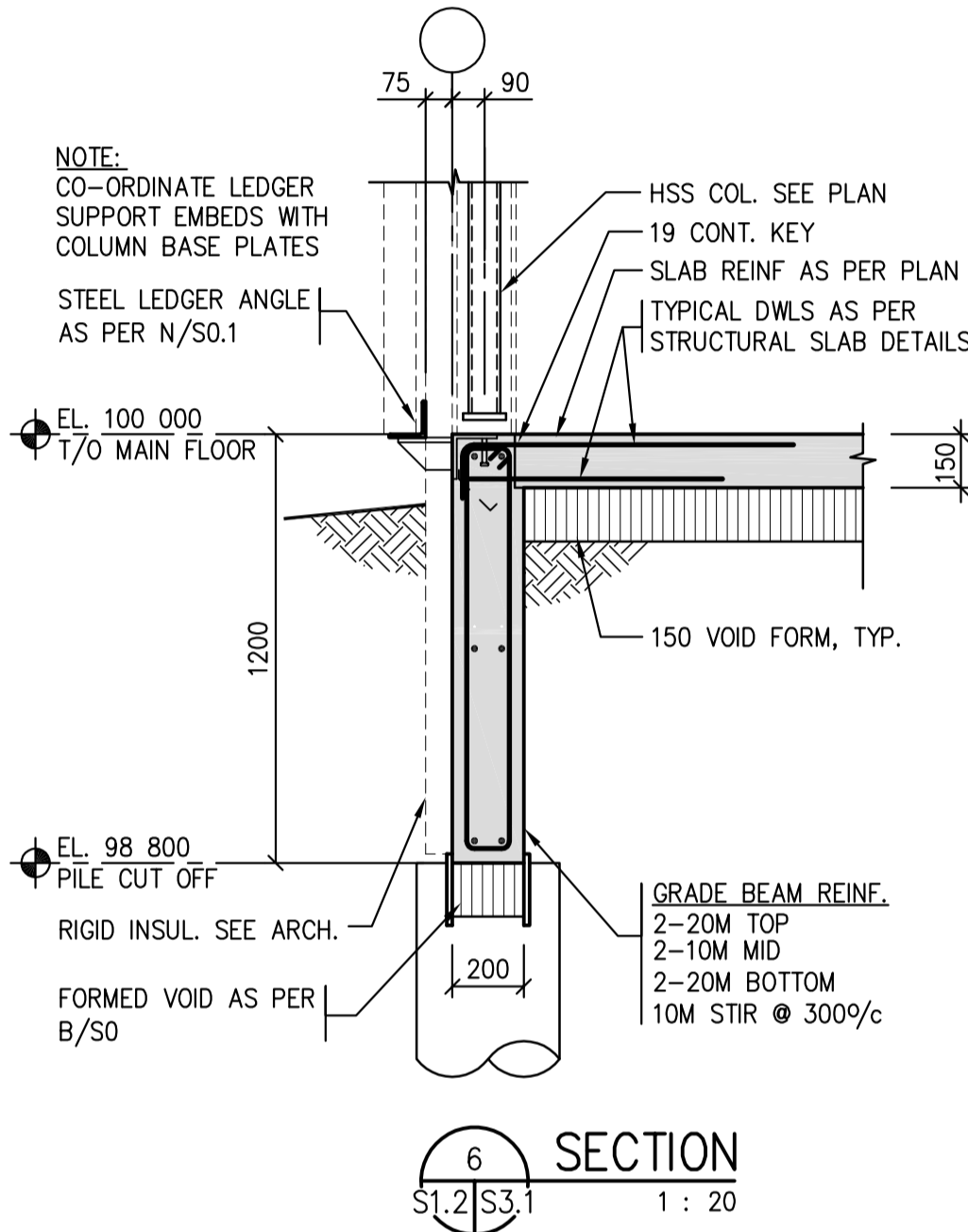
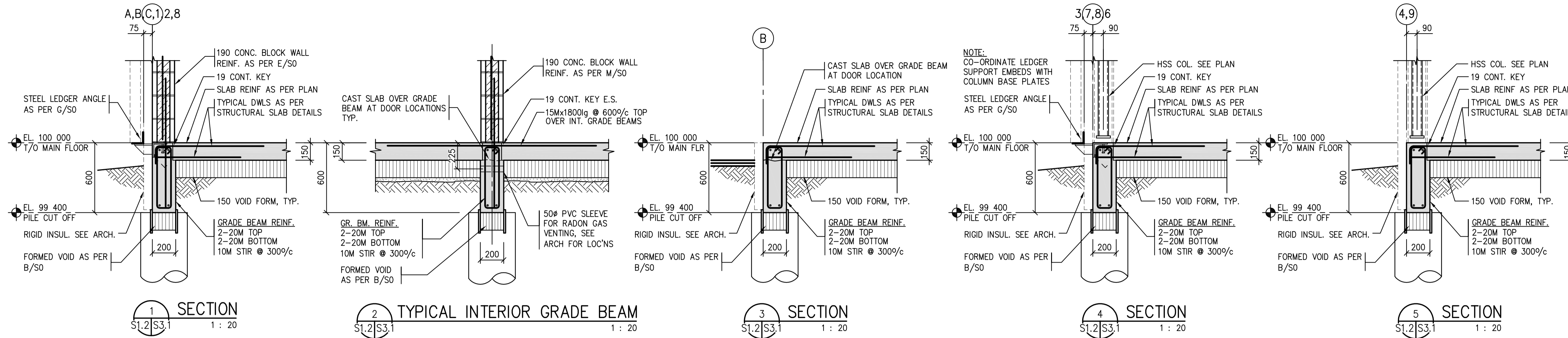
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PROFESSIONAL ENGINEER
 S.C. KILBACK
 MEMBER 12122
 2015 09 24
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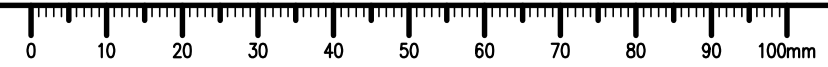
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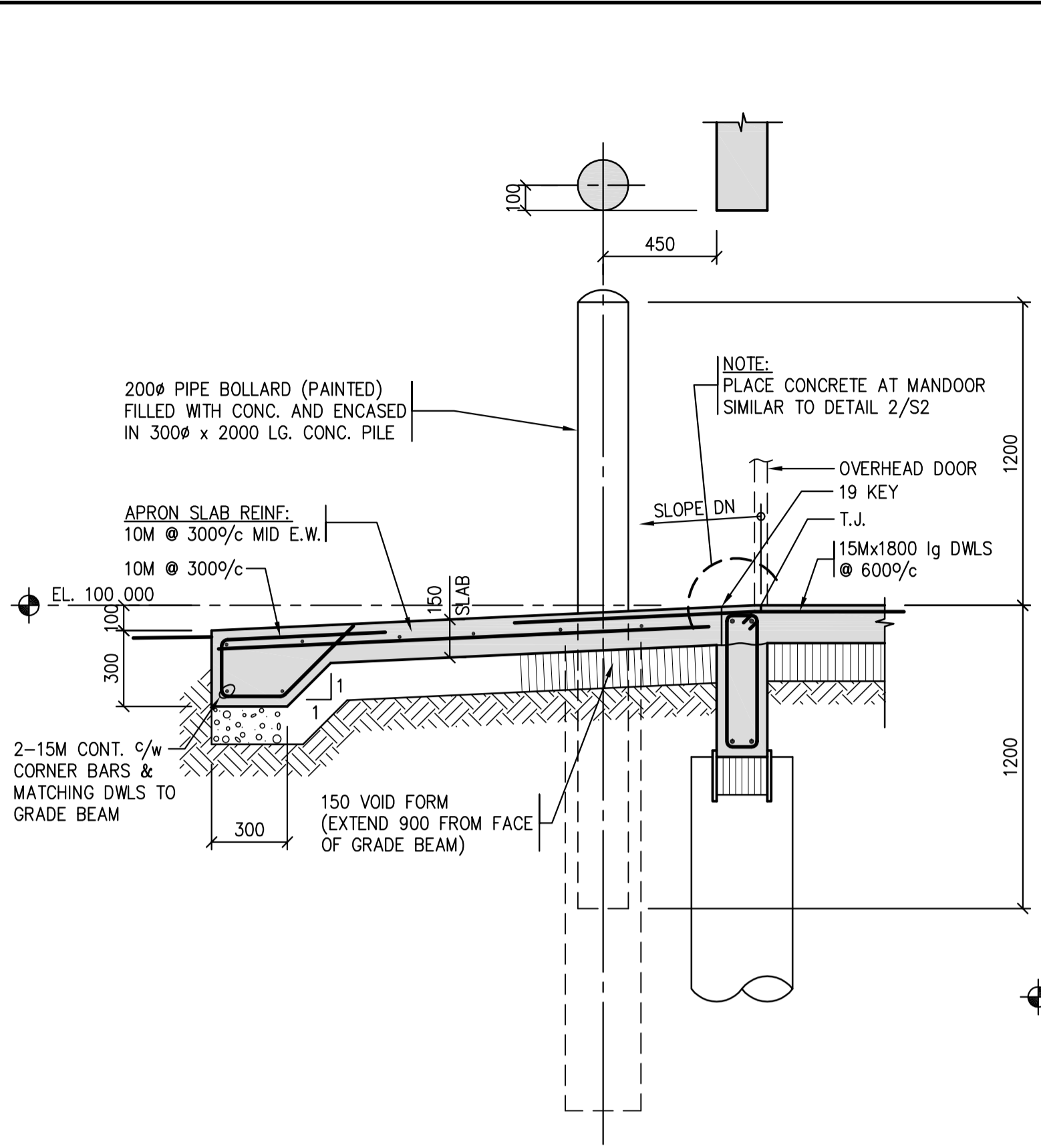
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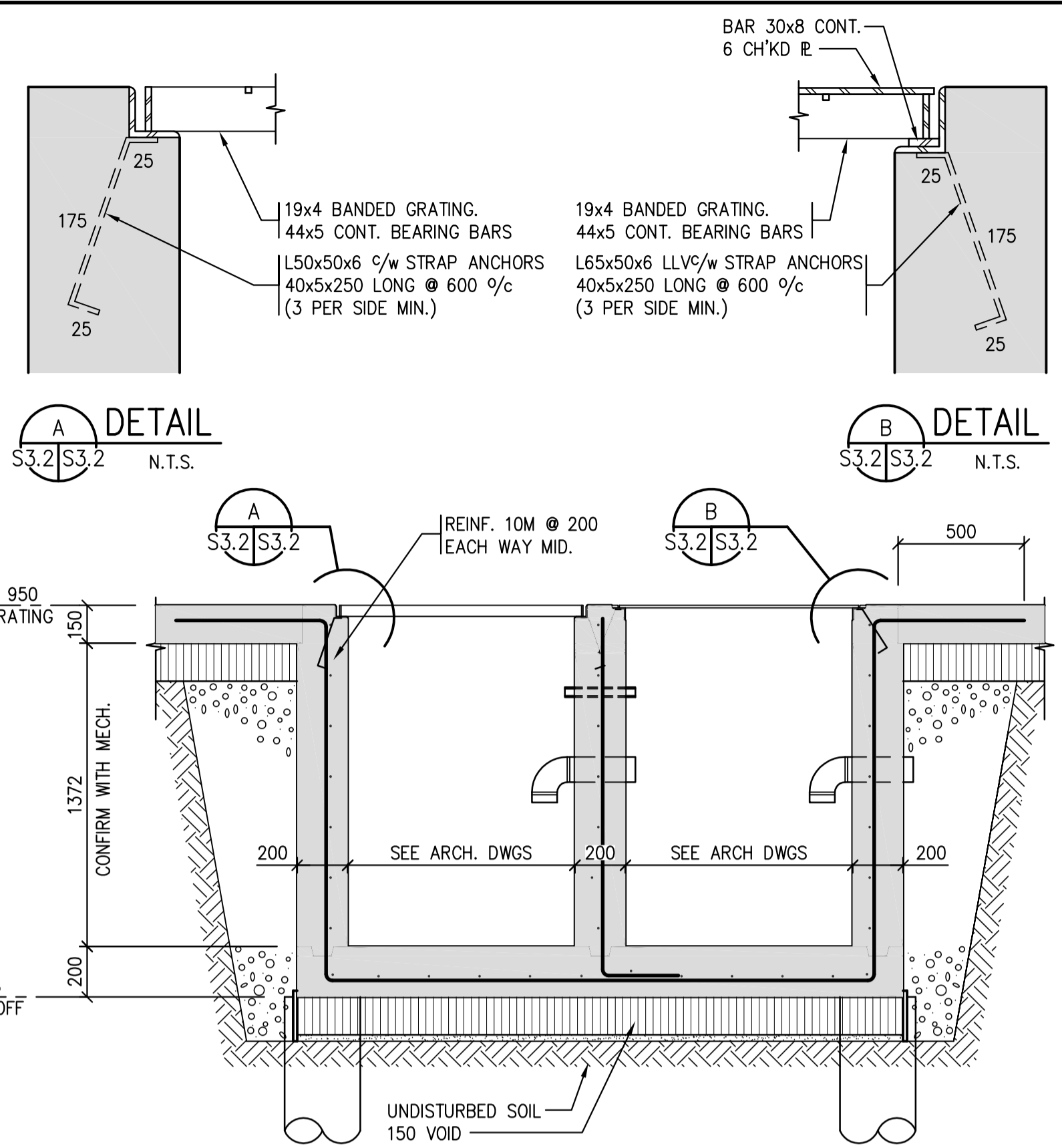
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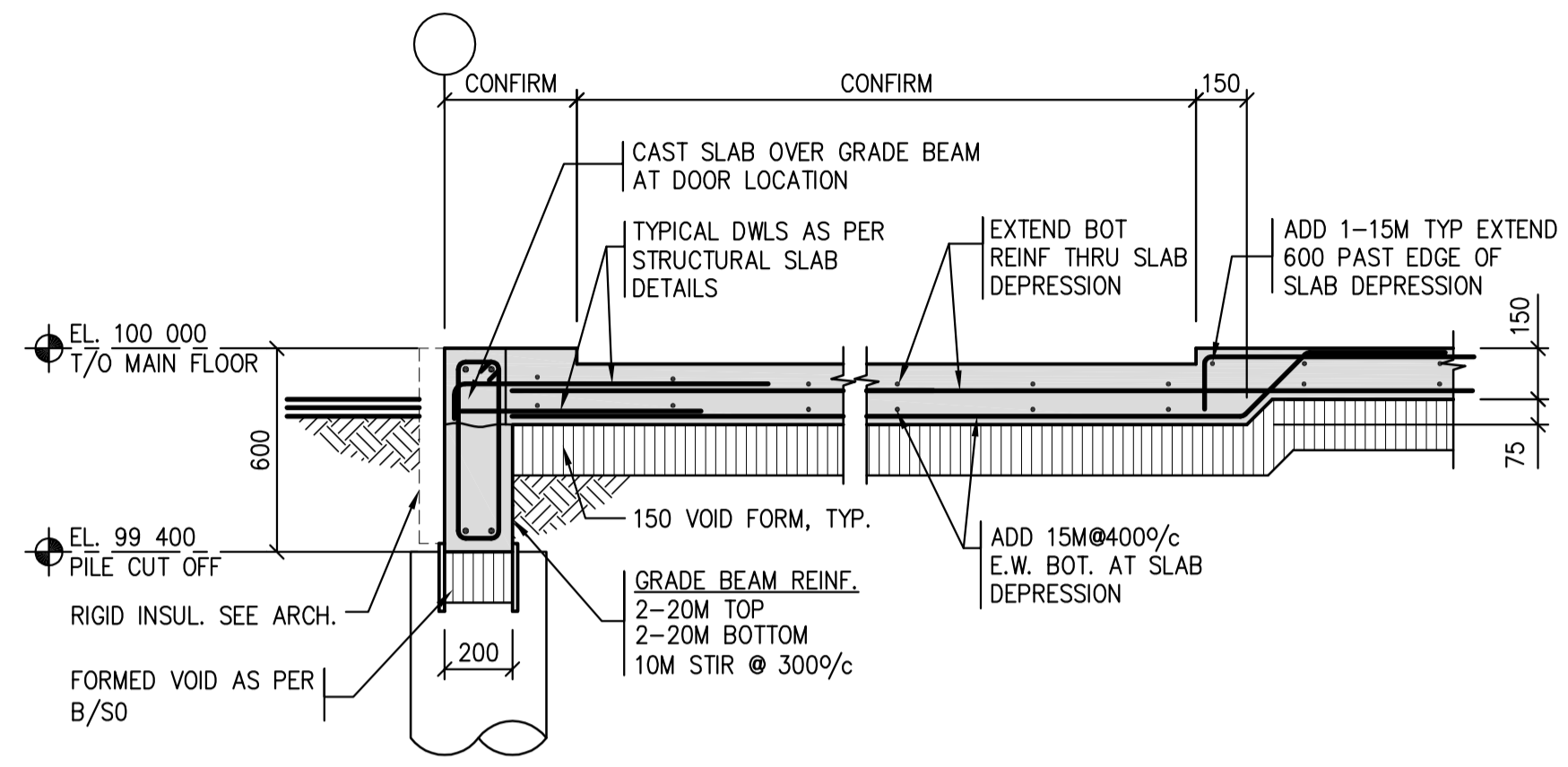




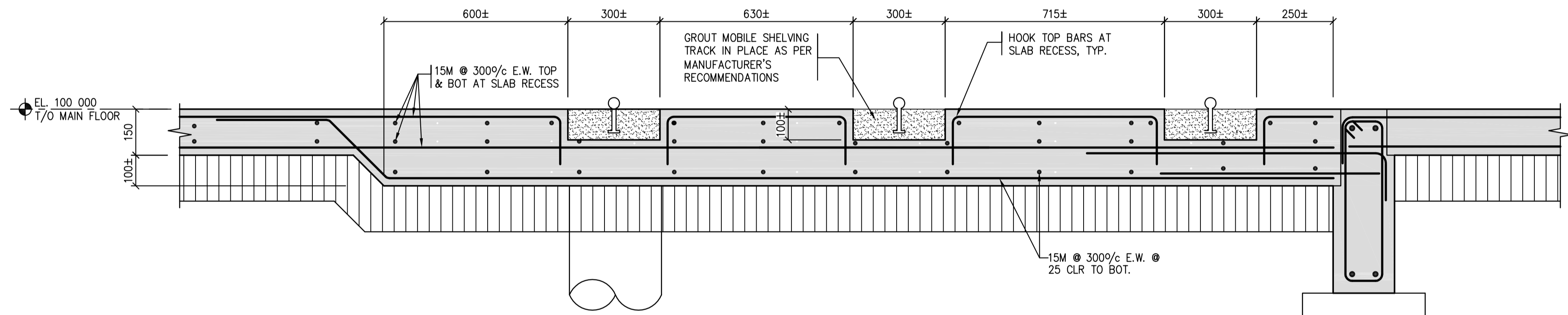
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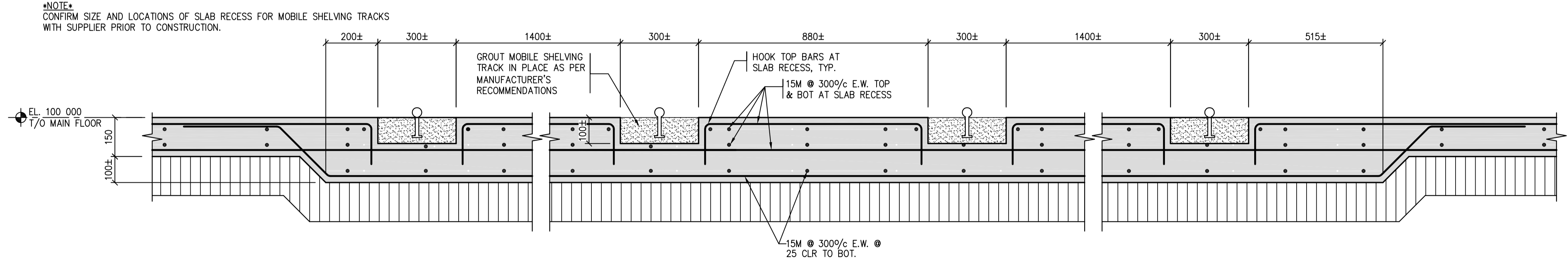
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3 SECTION AT RECESSED MAT
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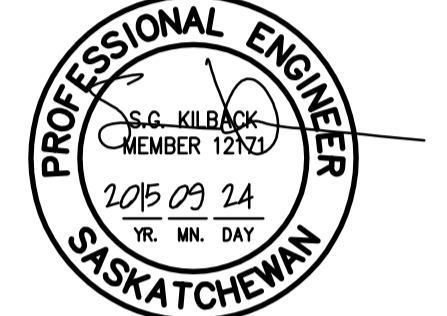
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S1.2/S3.2 1 : 10



5 REINF. DETAIL AT MOBILE SHELVING
S1.2/S3.2 1 : 10

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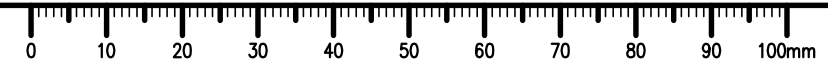
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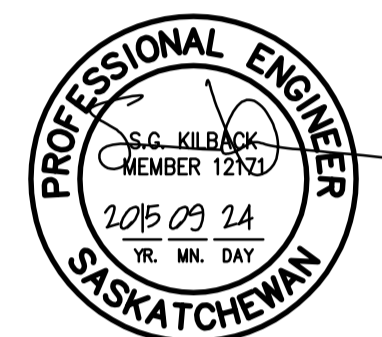
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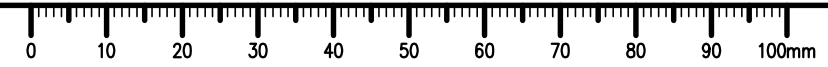
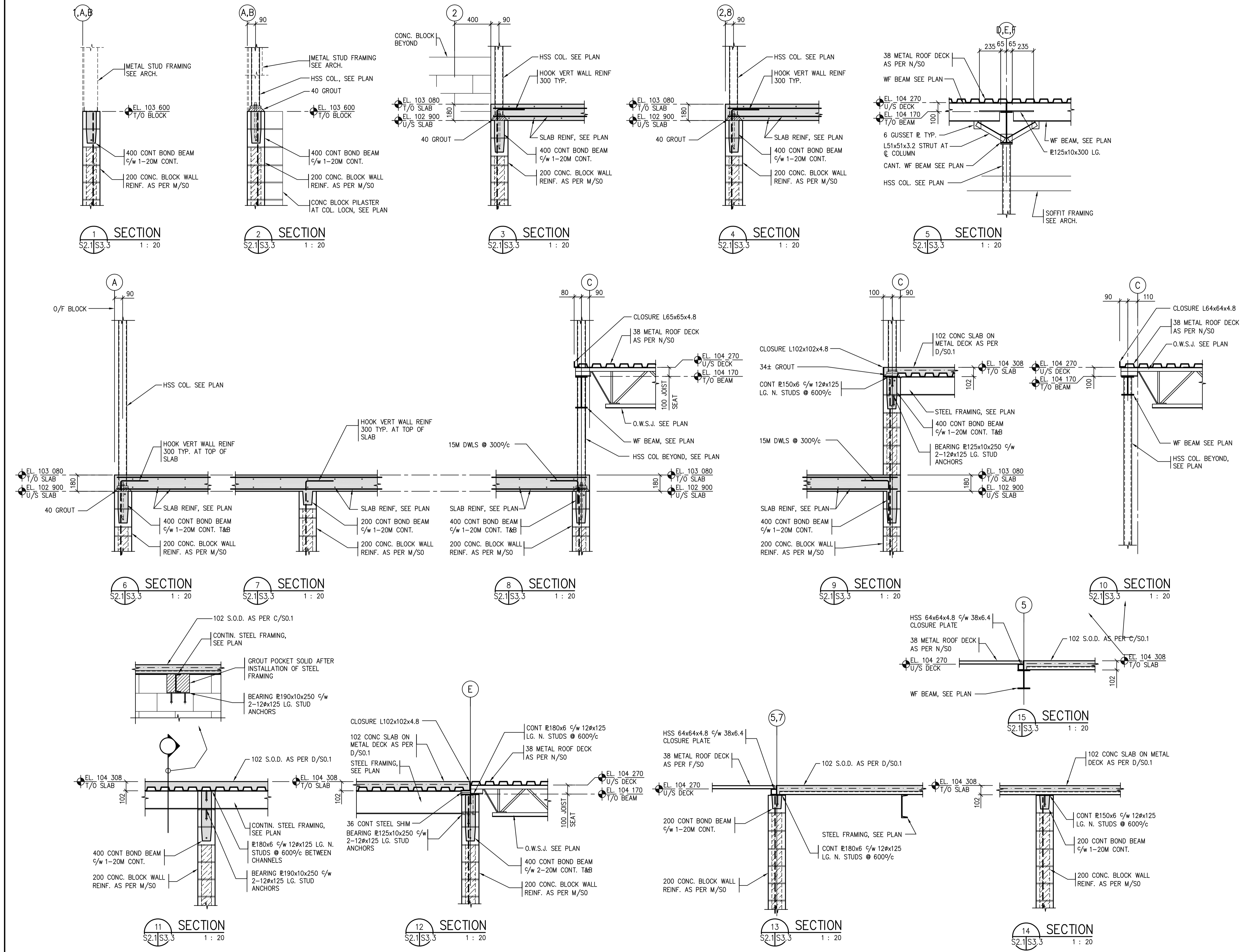
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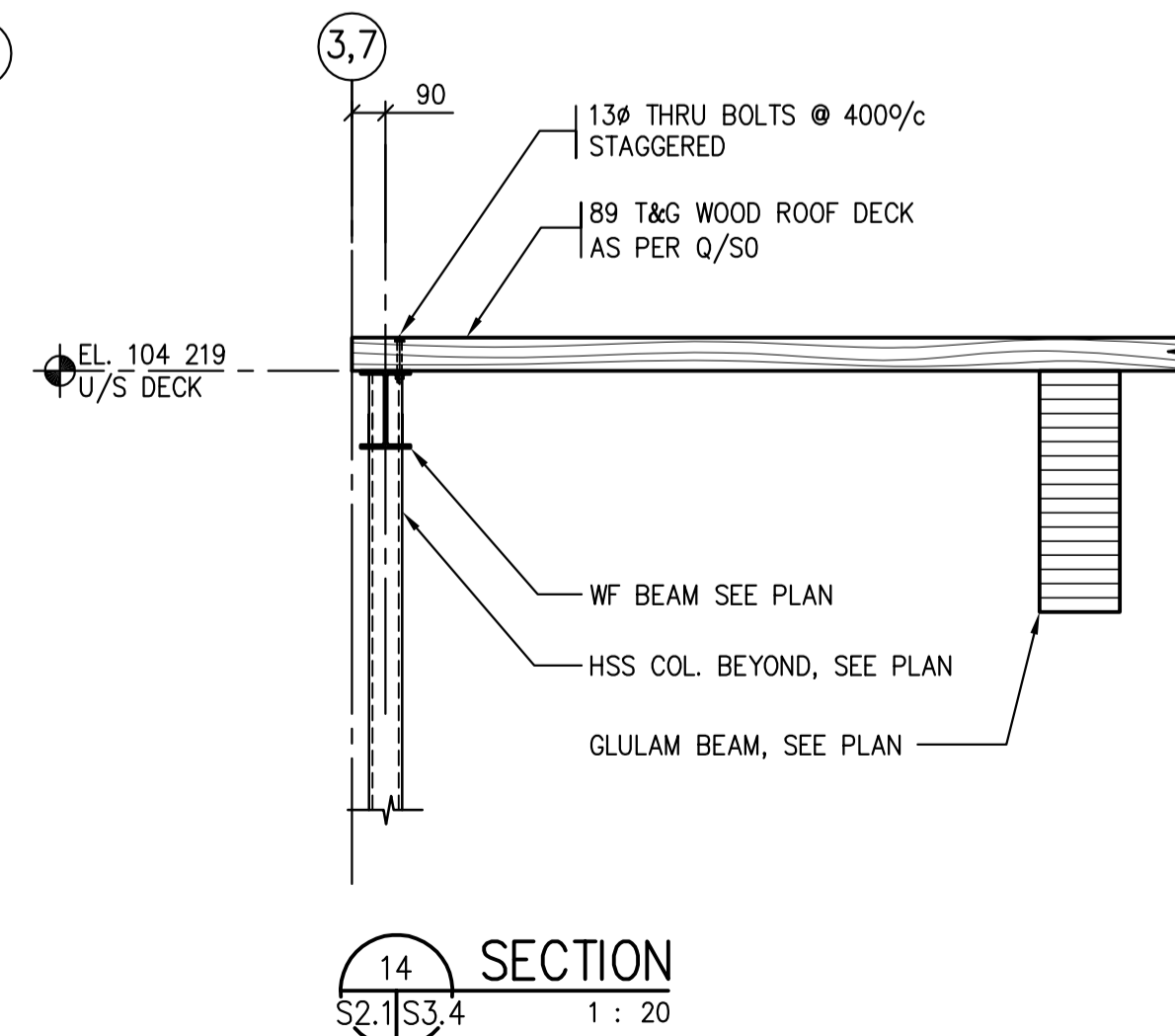
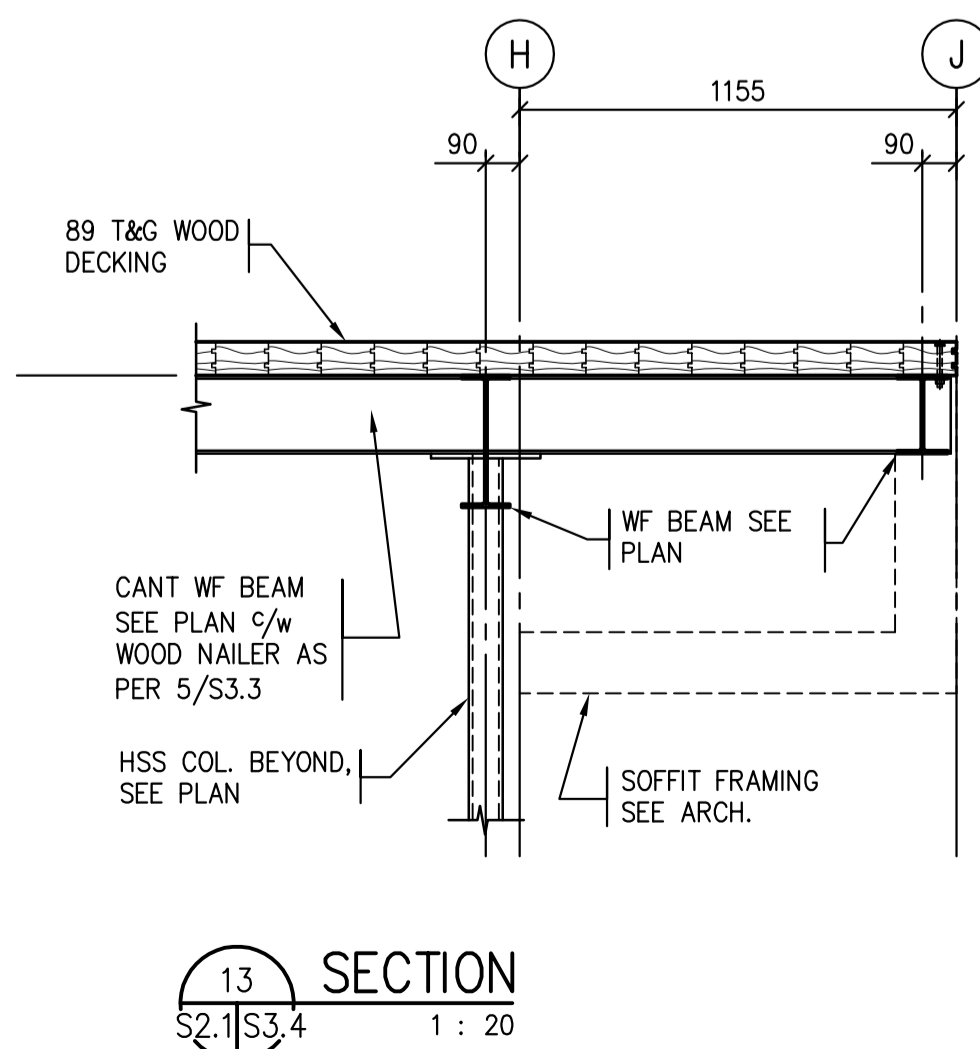
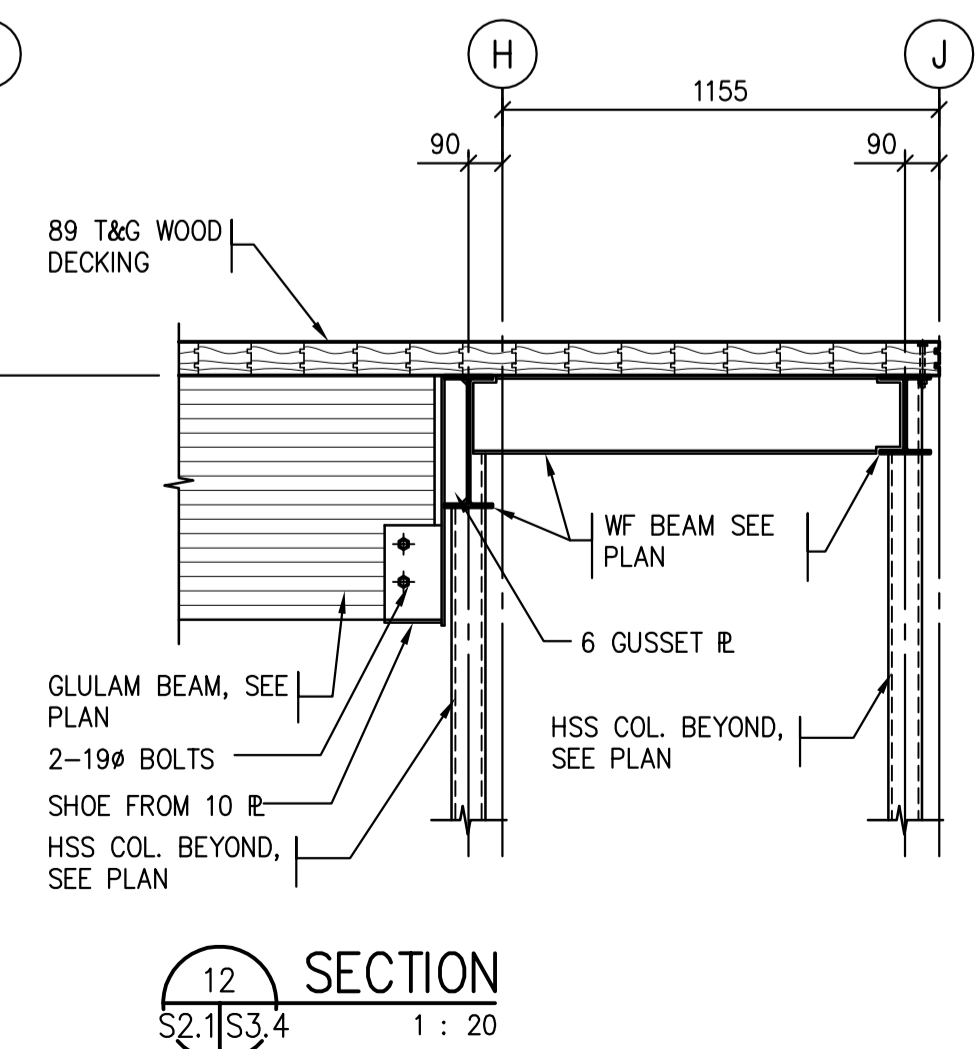
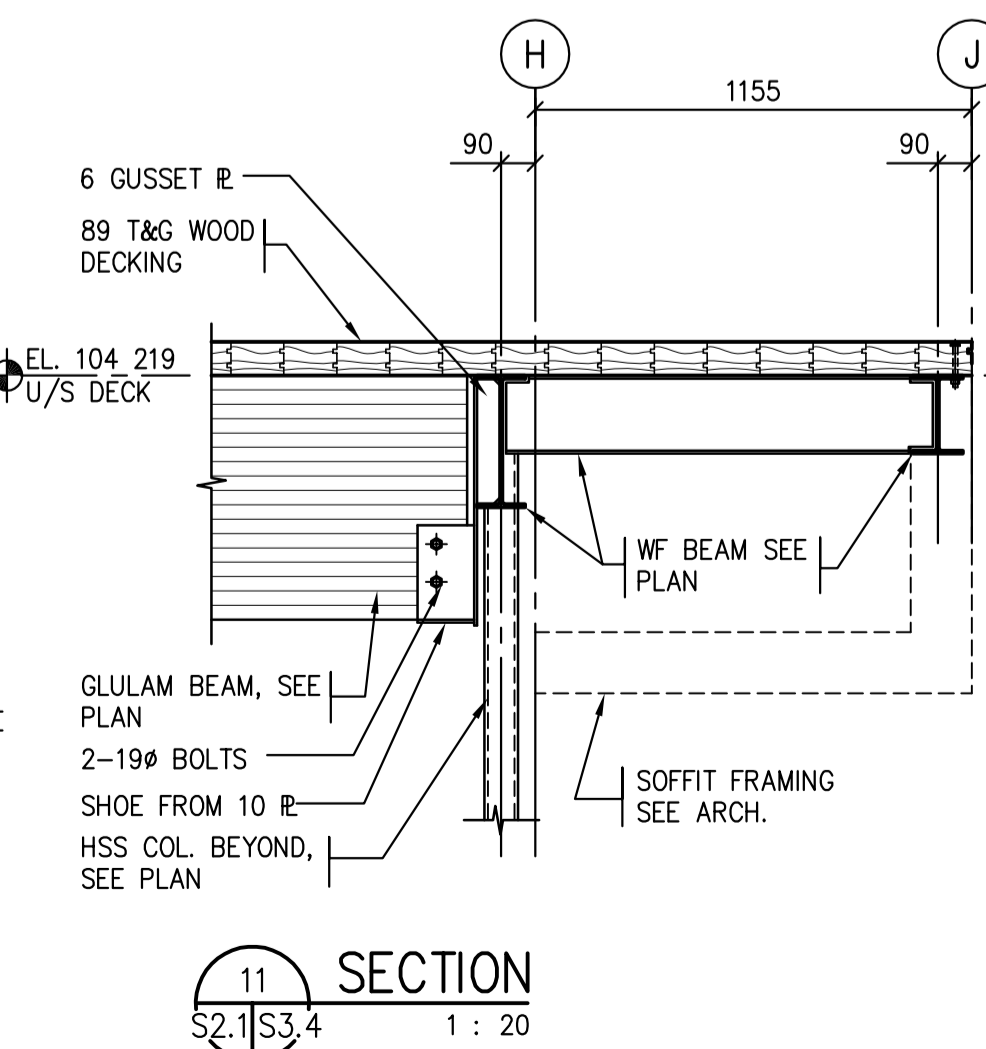
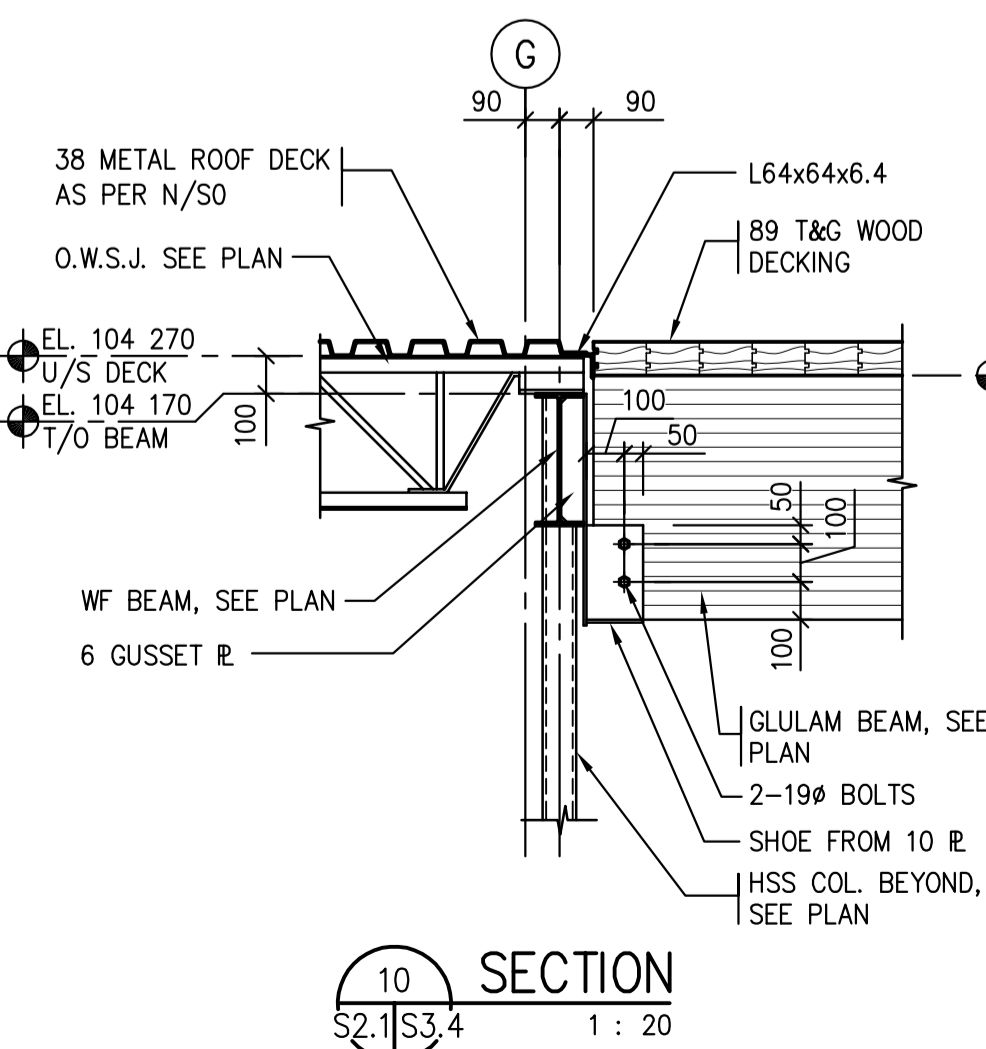
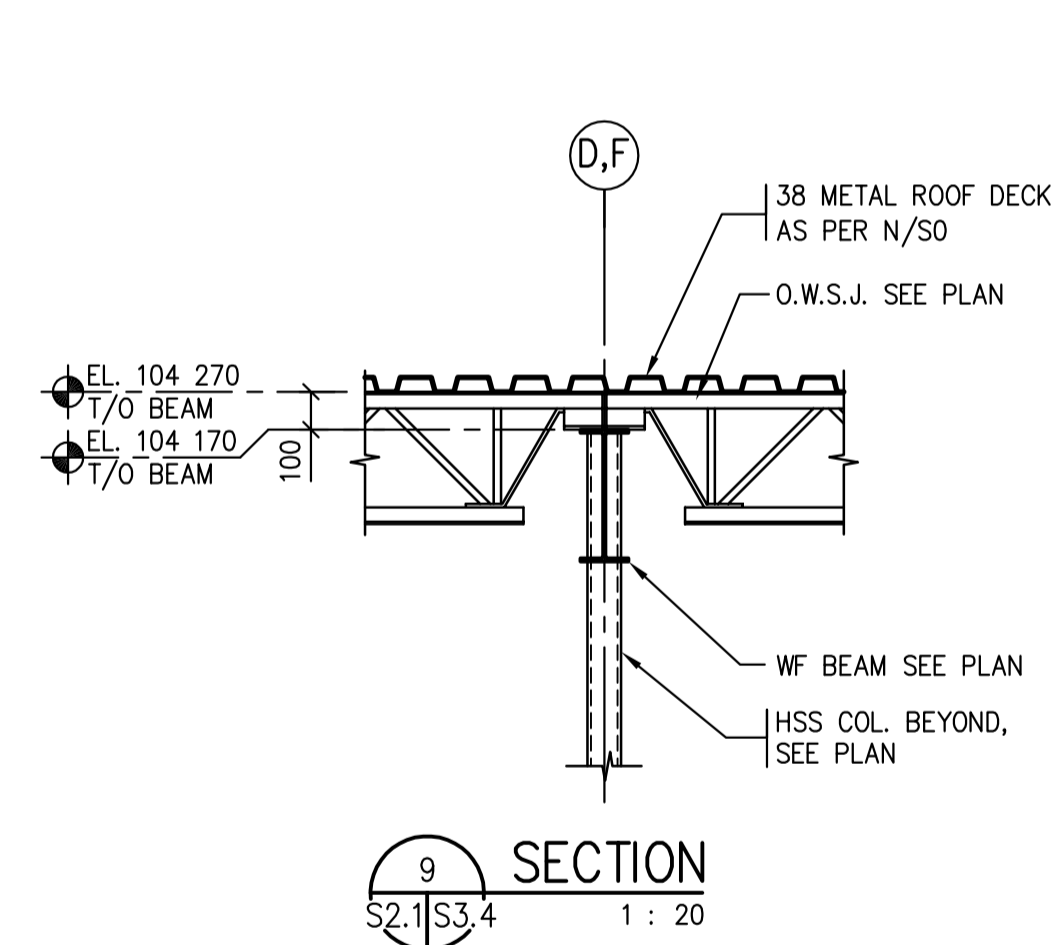
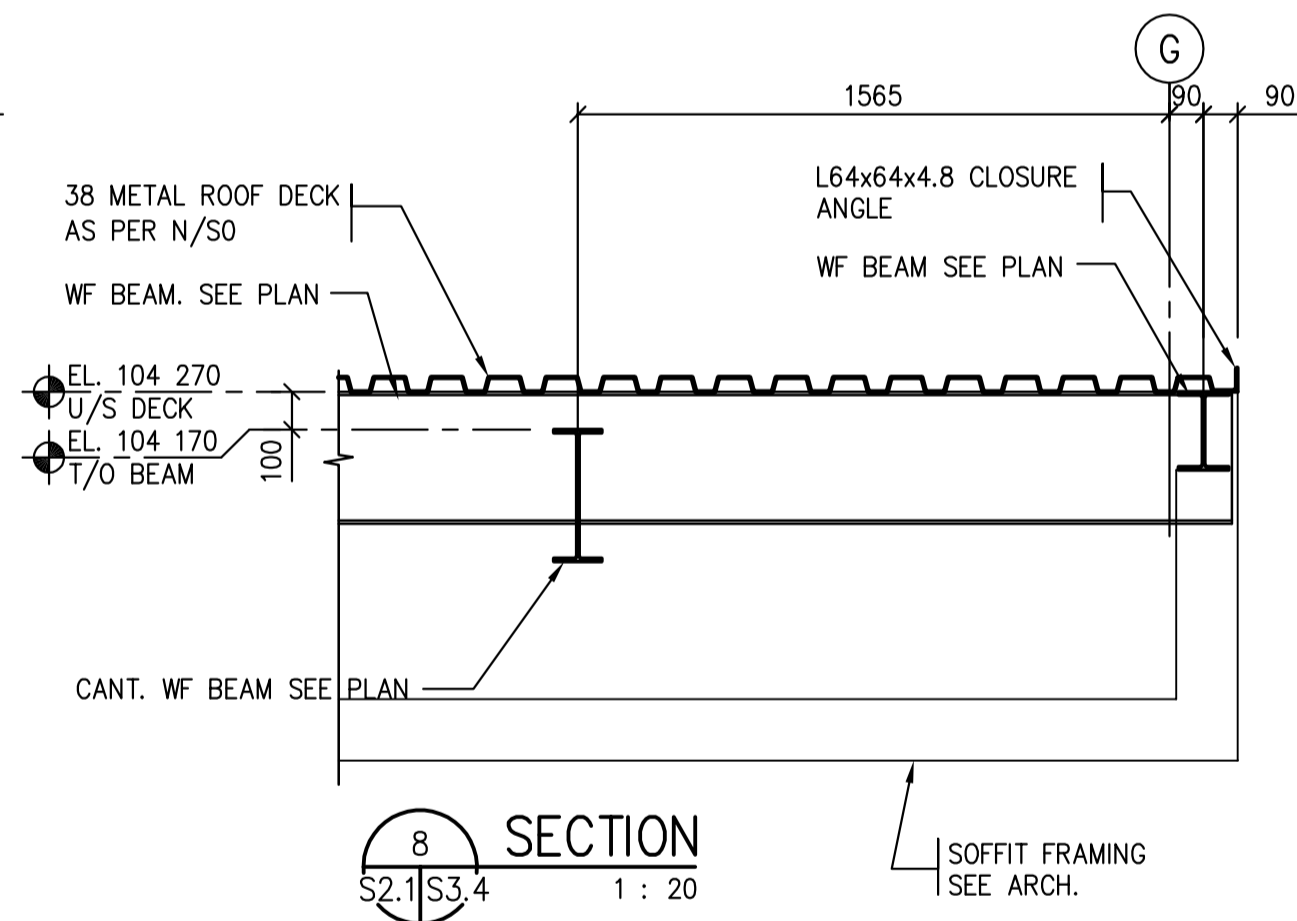
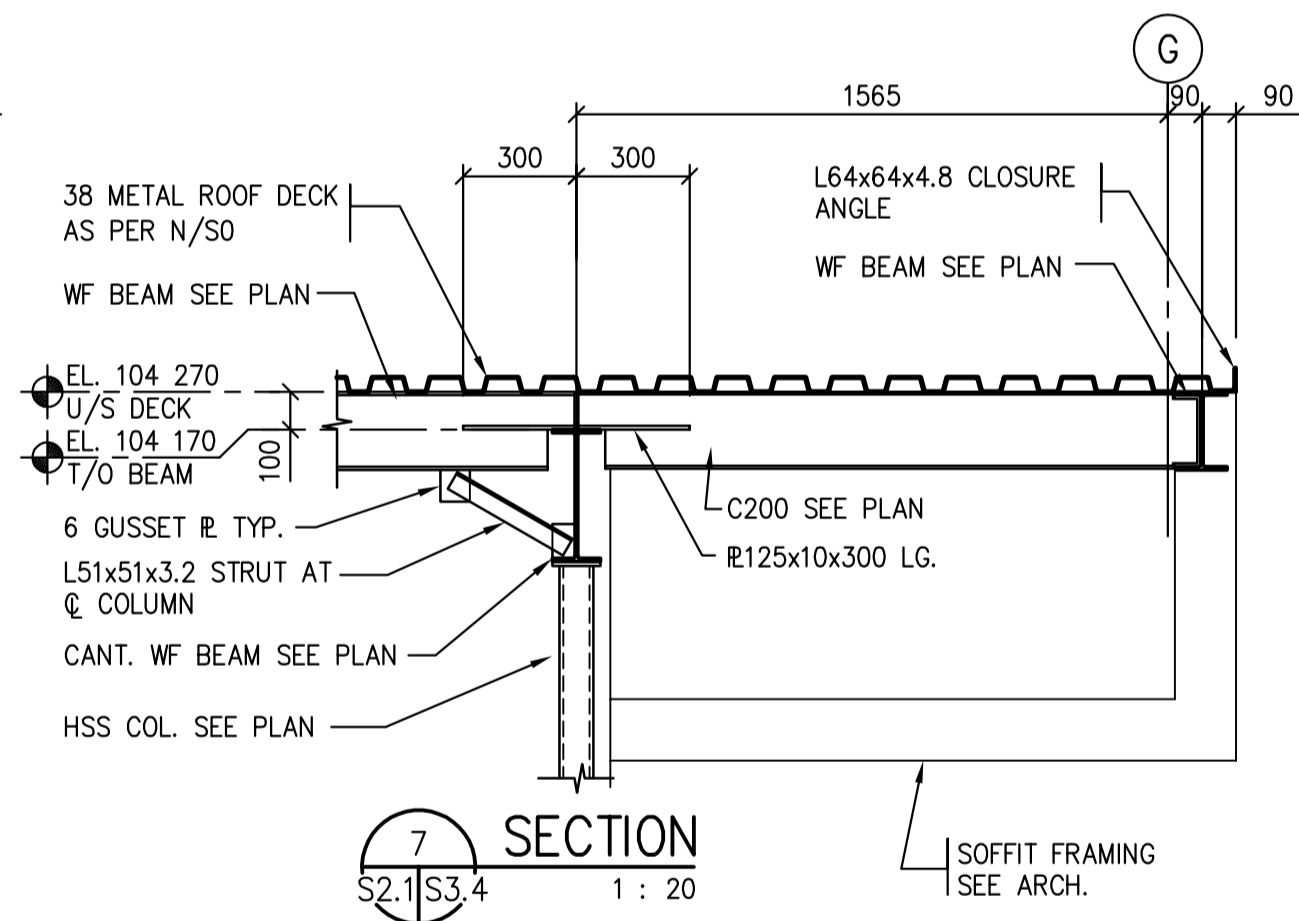
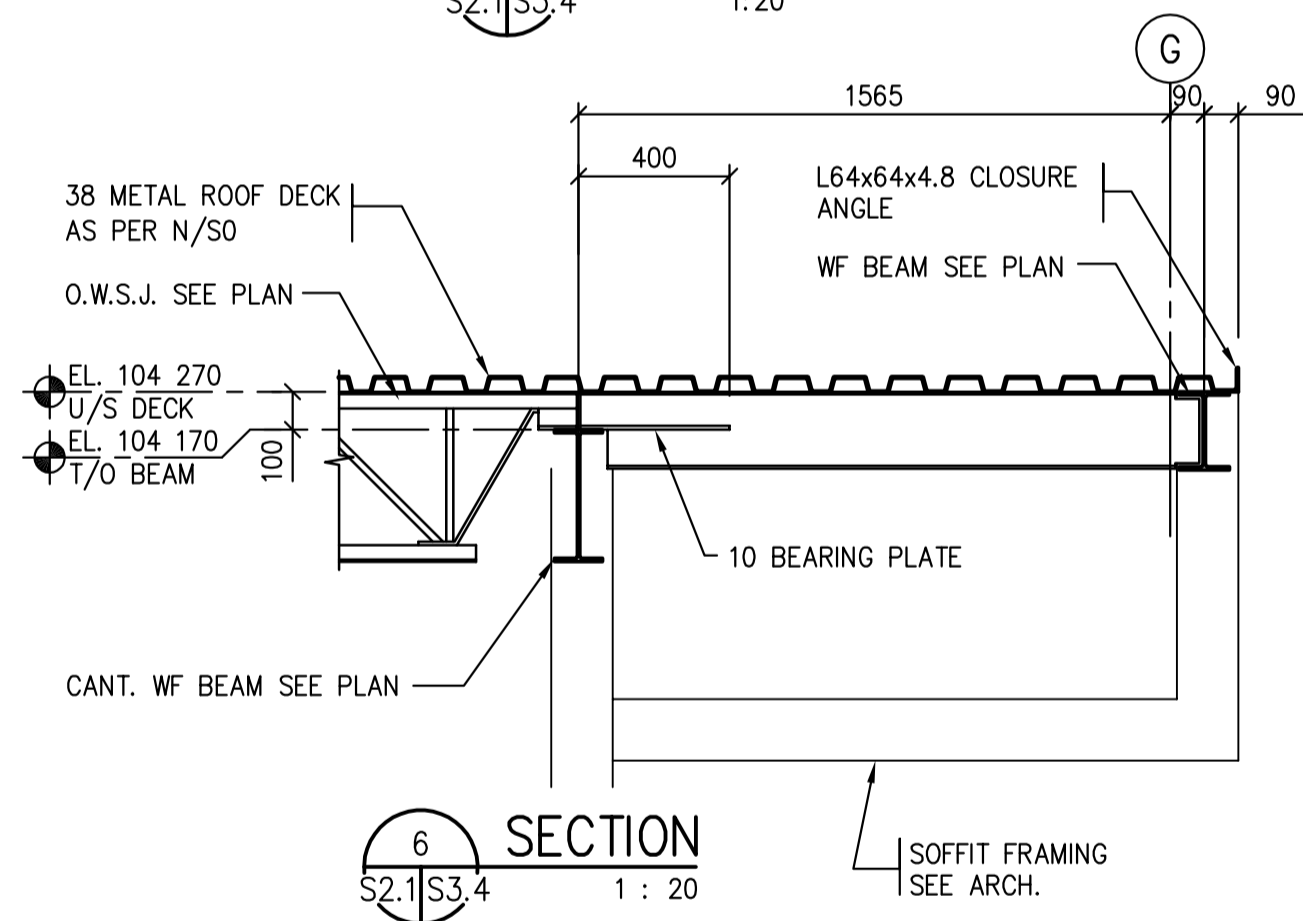
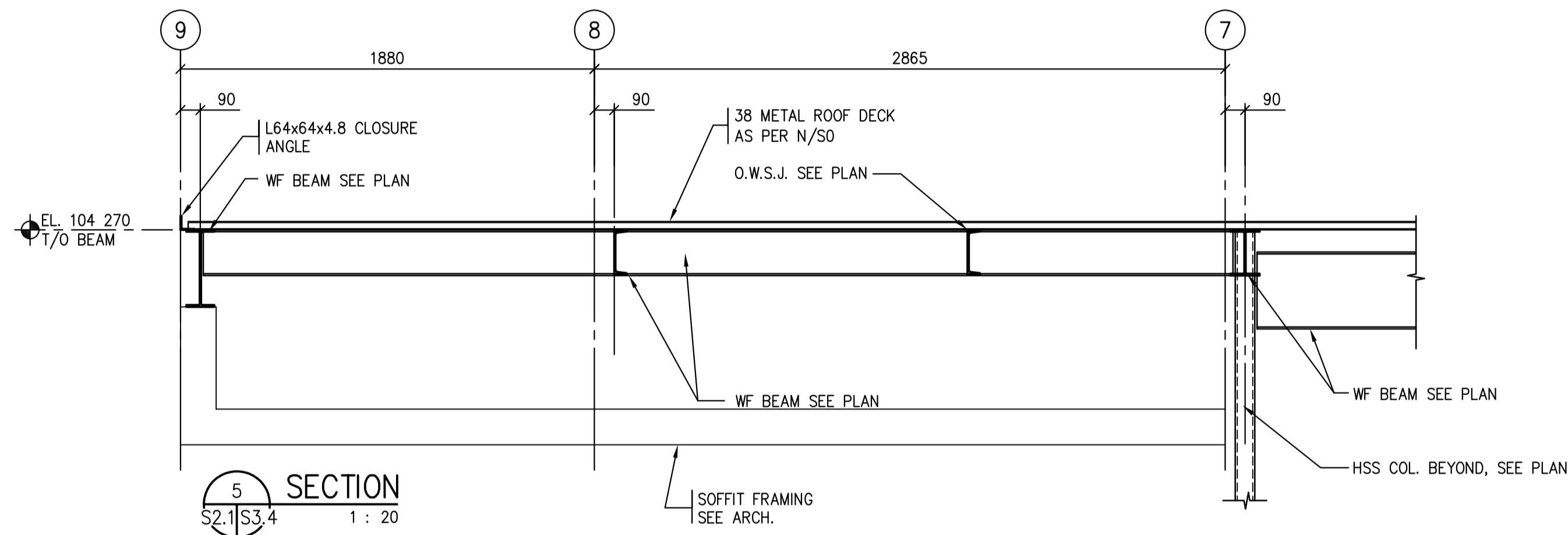
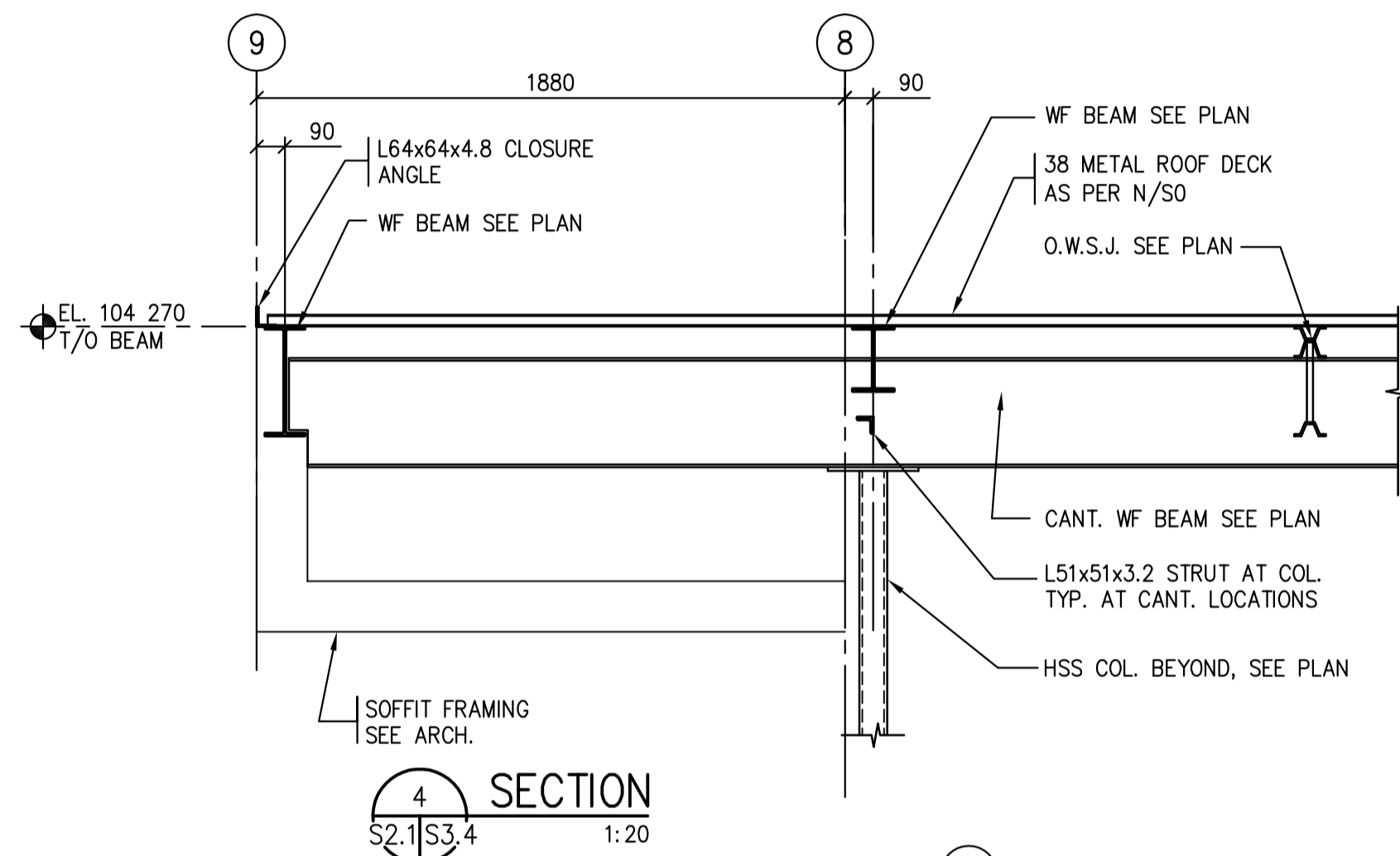
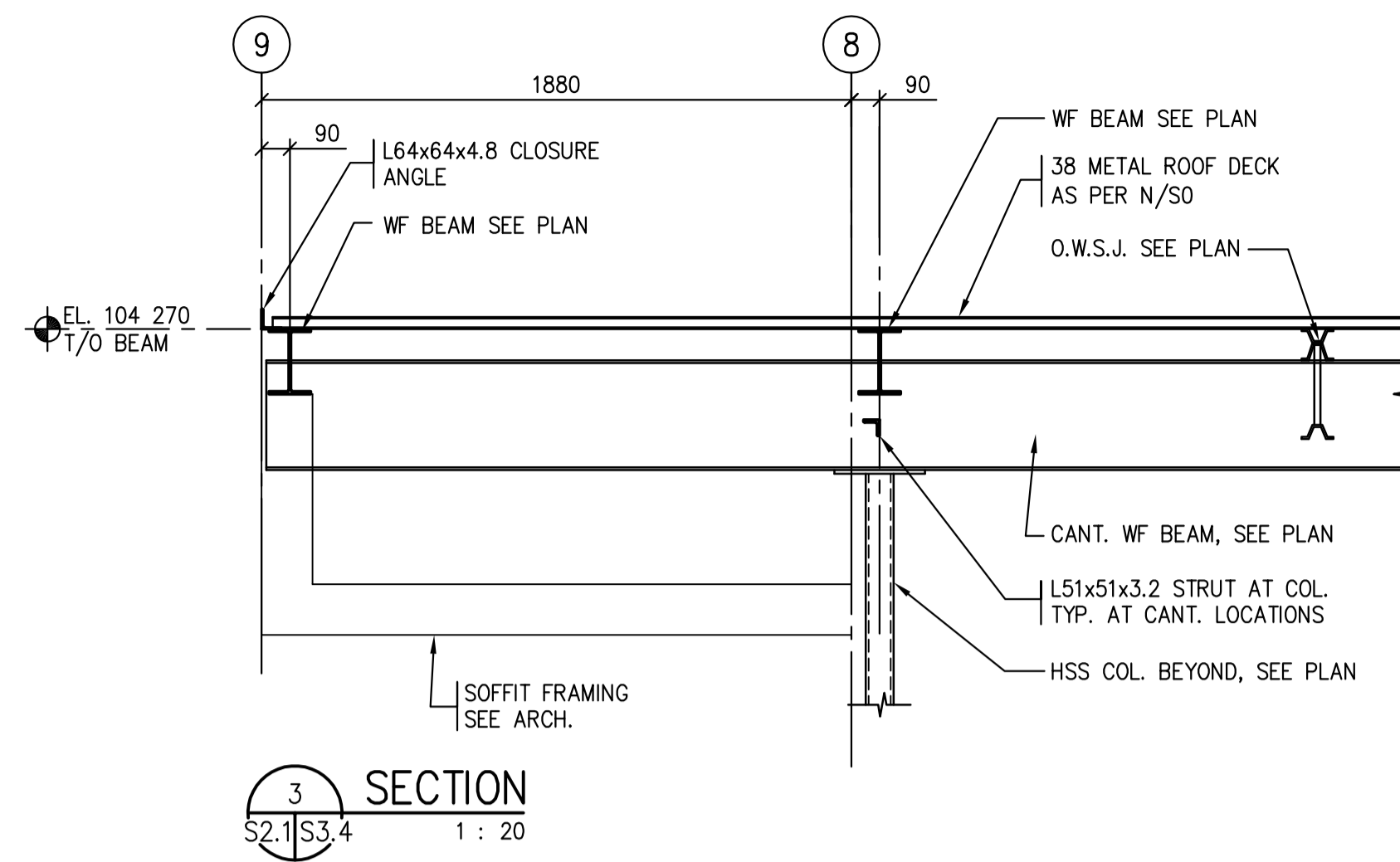
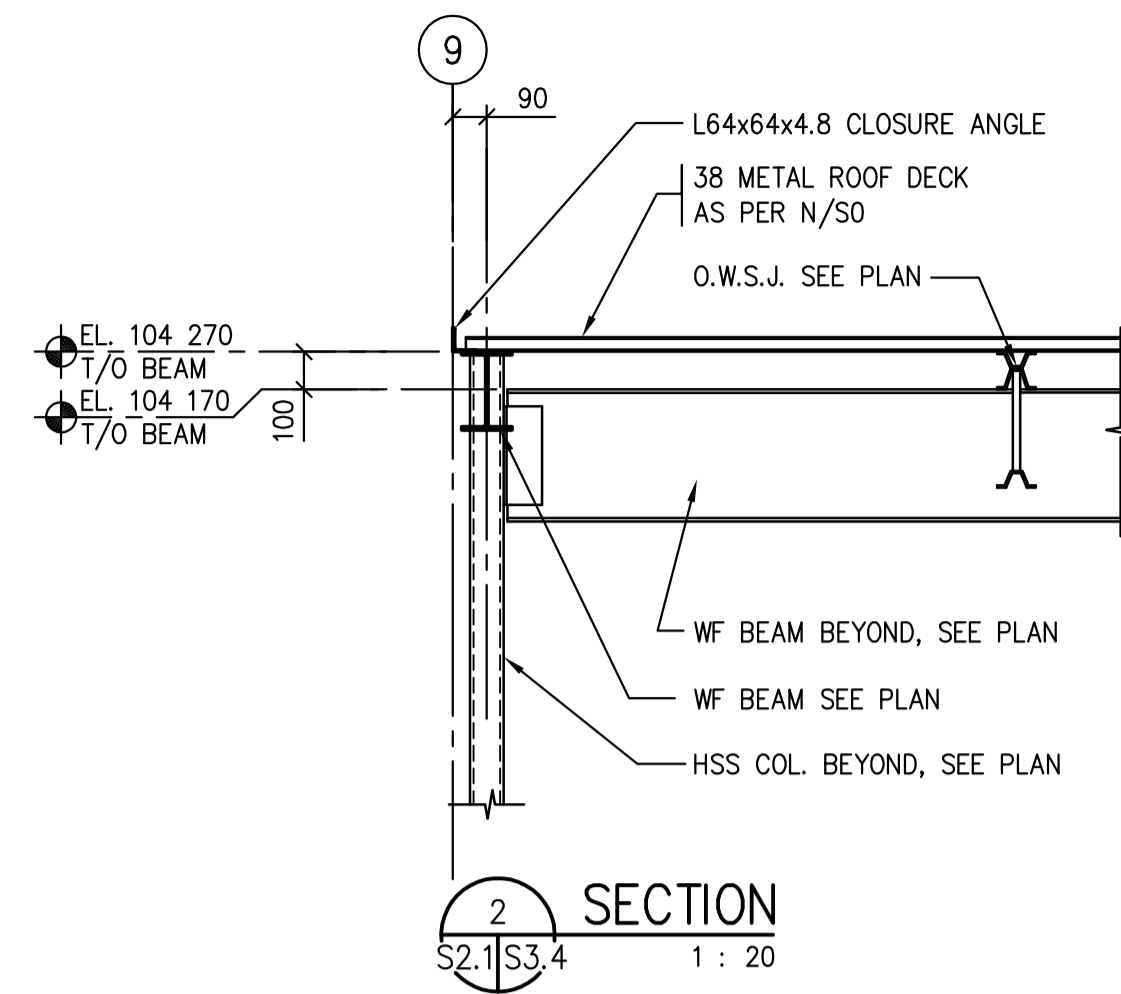
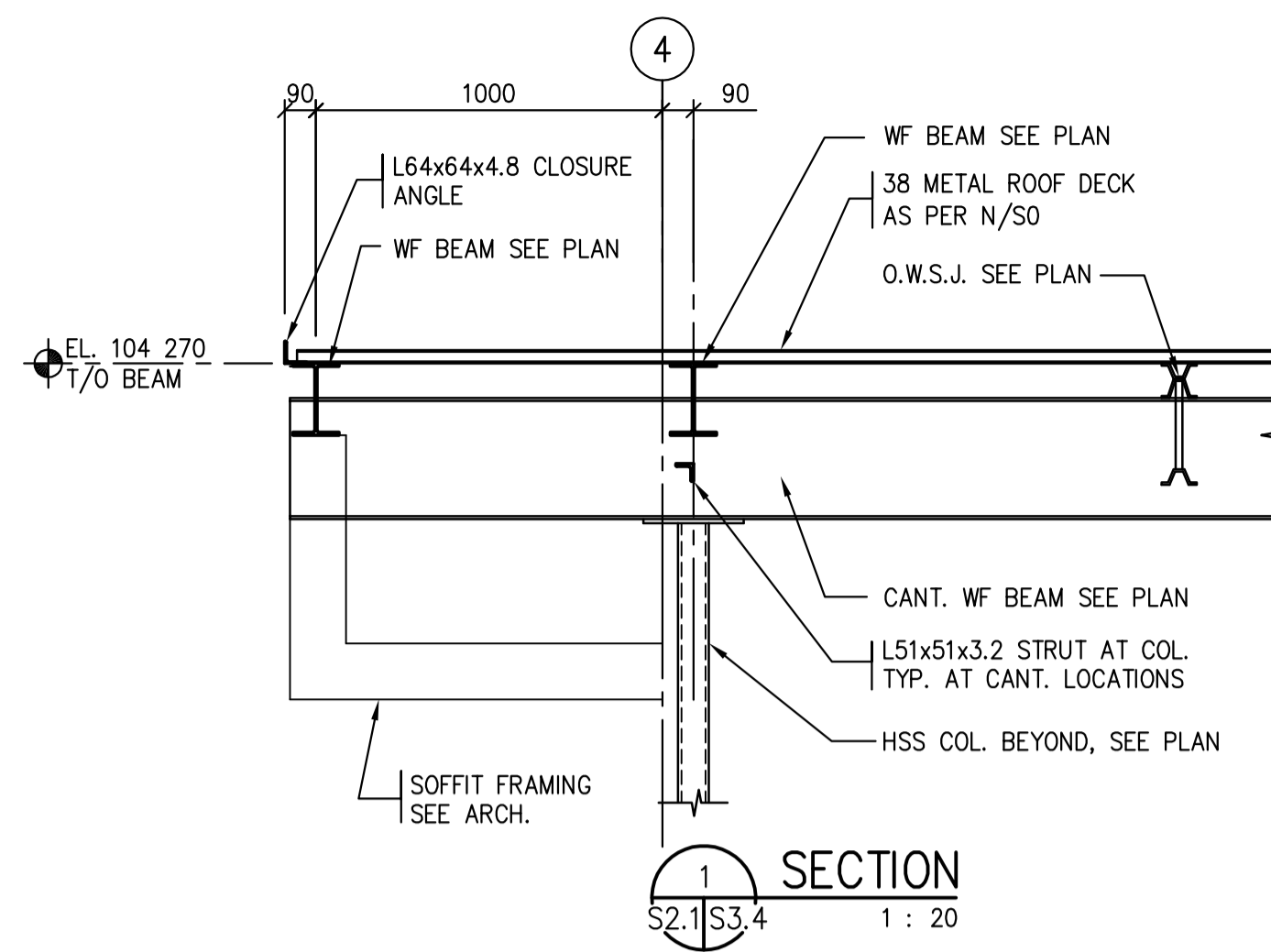
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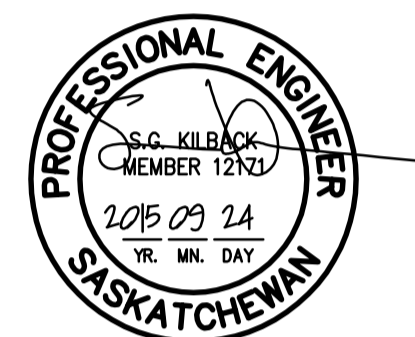
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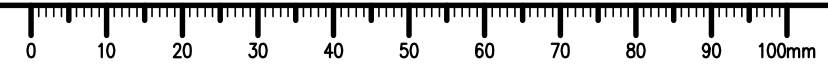
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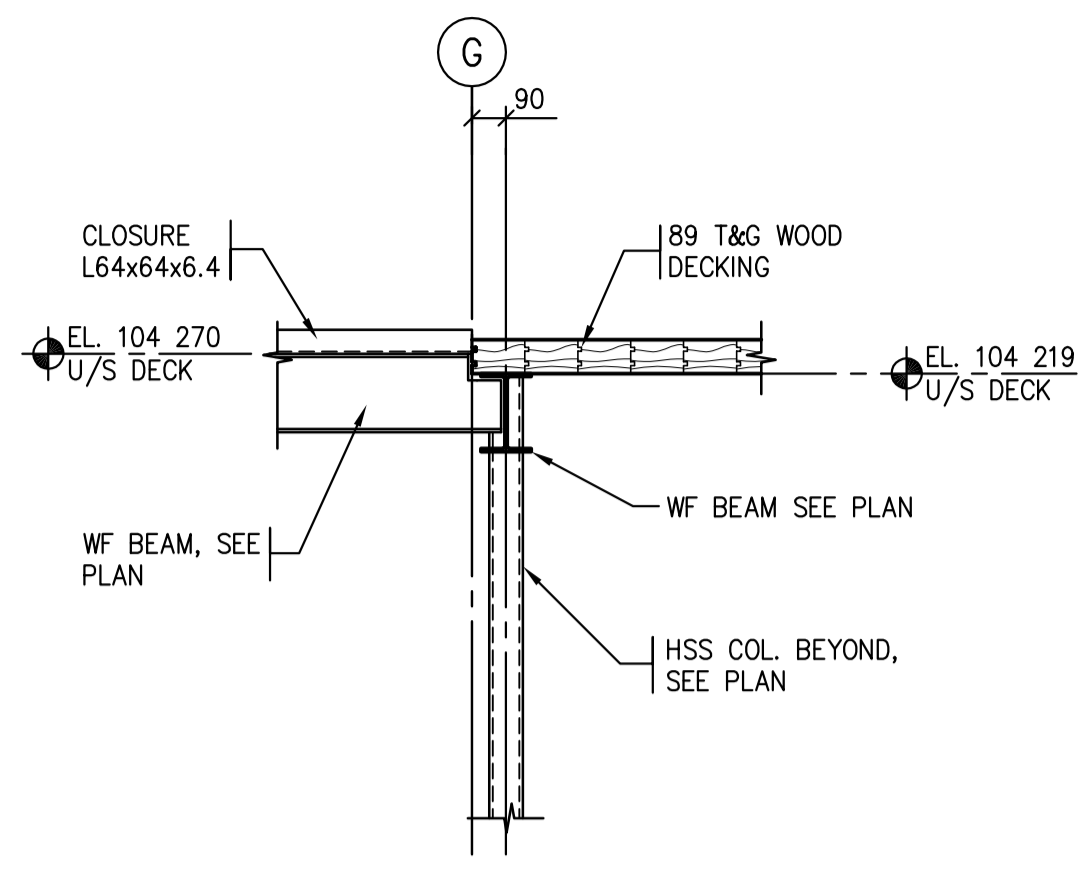
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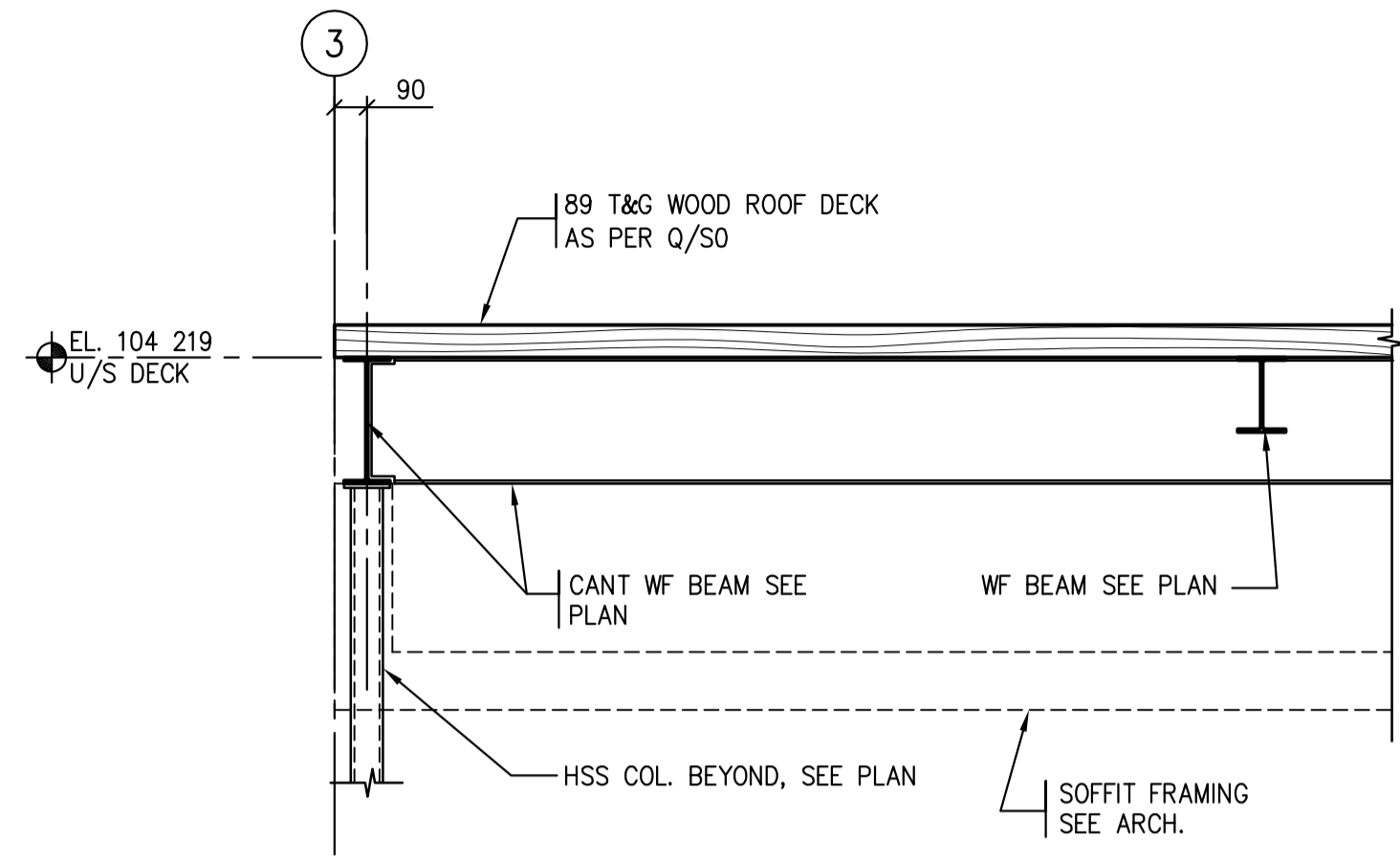
SECTIONS AND DETAILS

Project No./No. du projet: 24/2014
Sheet/Fauille: S3.4
Revision no./La Révision no.: 0

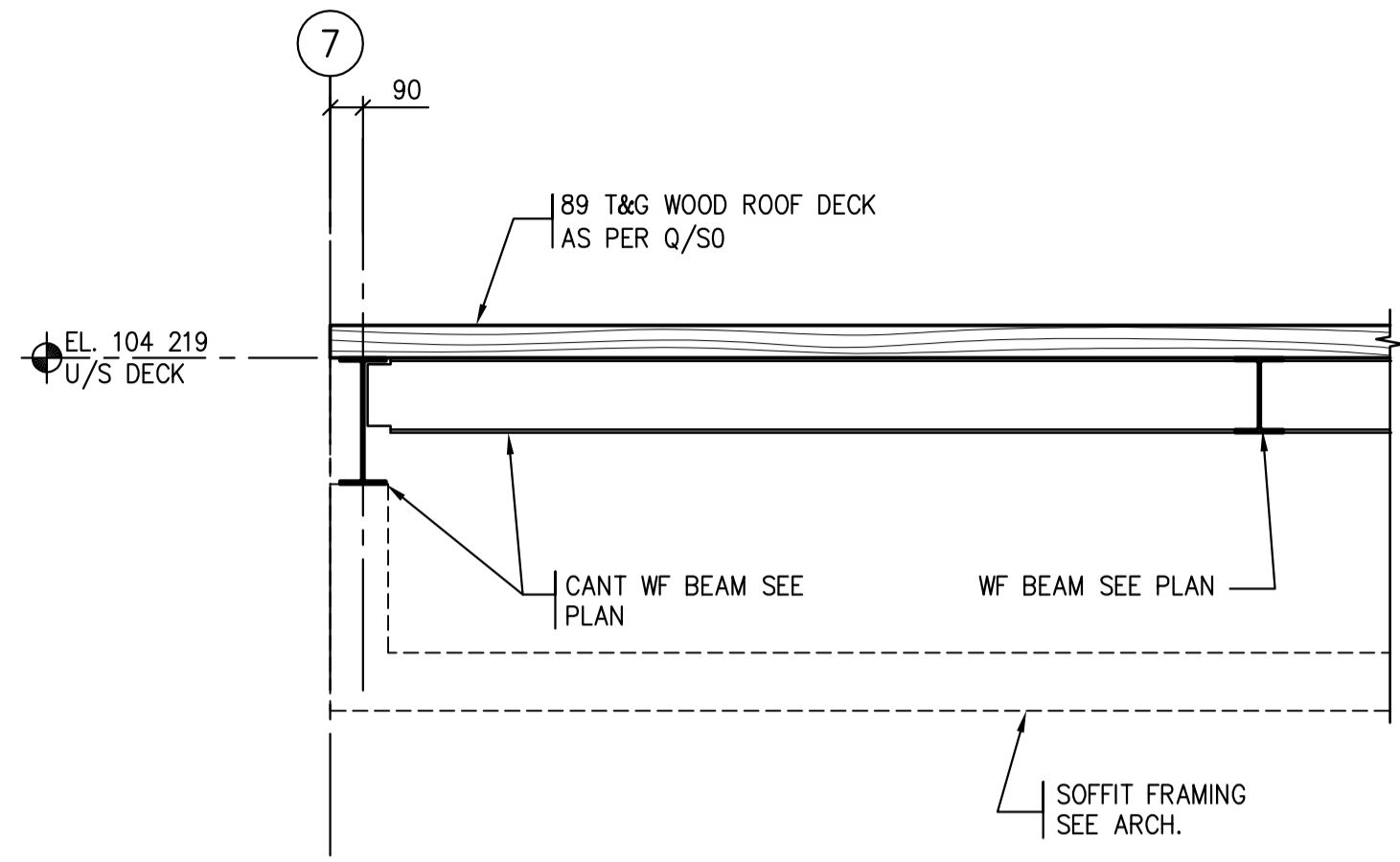




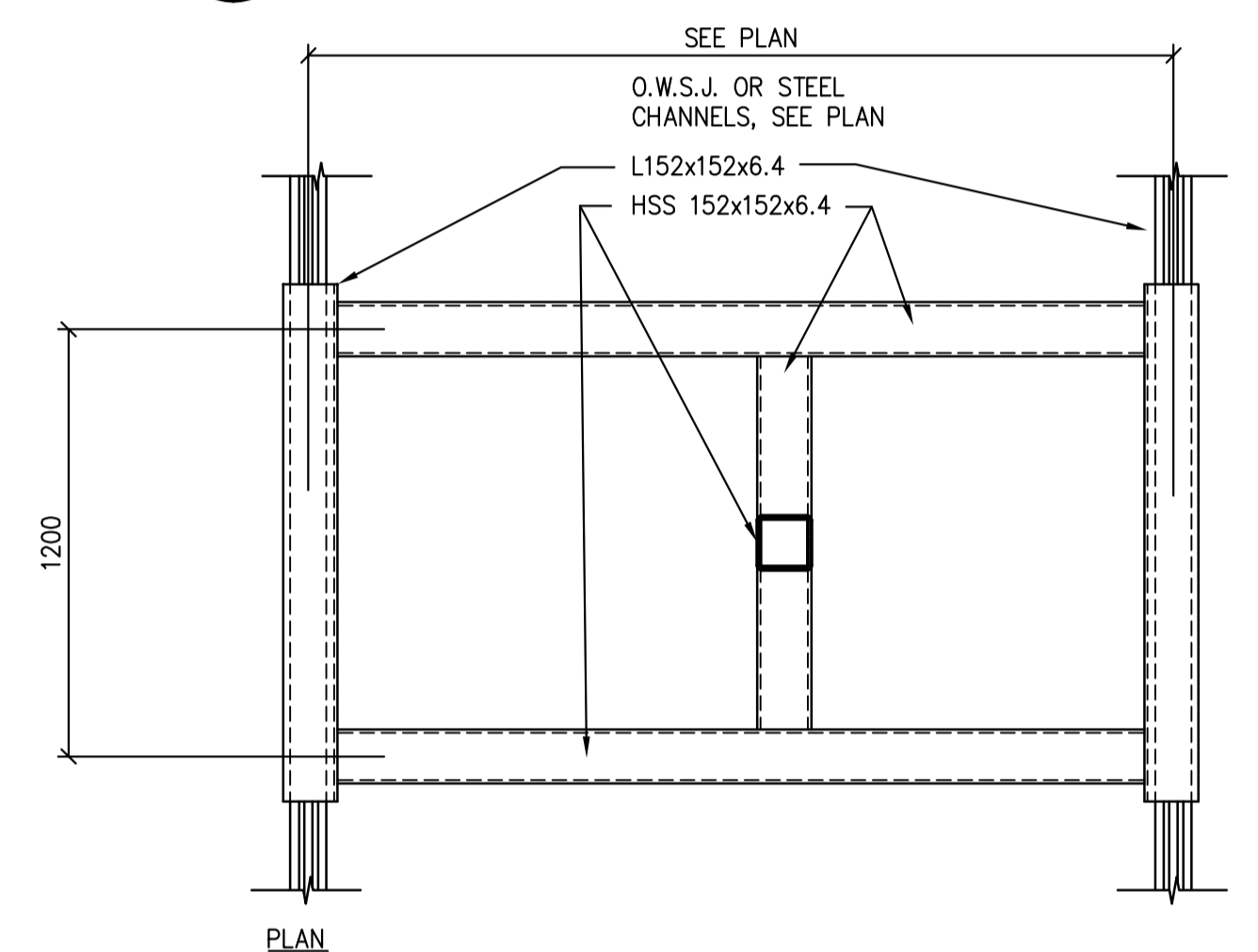
1 SECTION
S2.1|S3.5 1:20



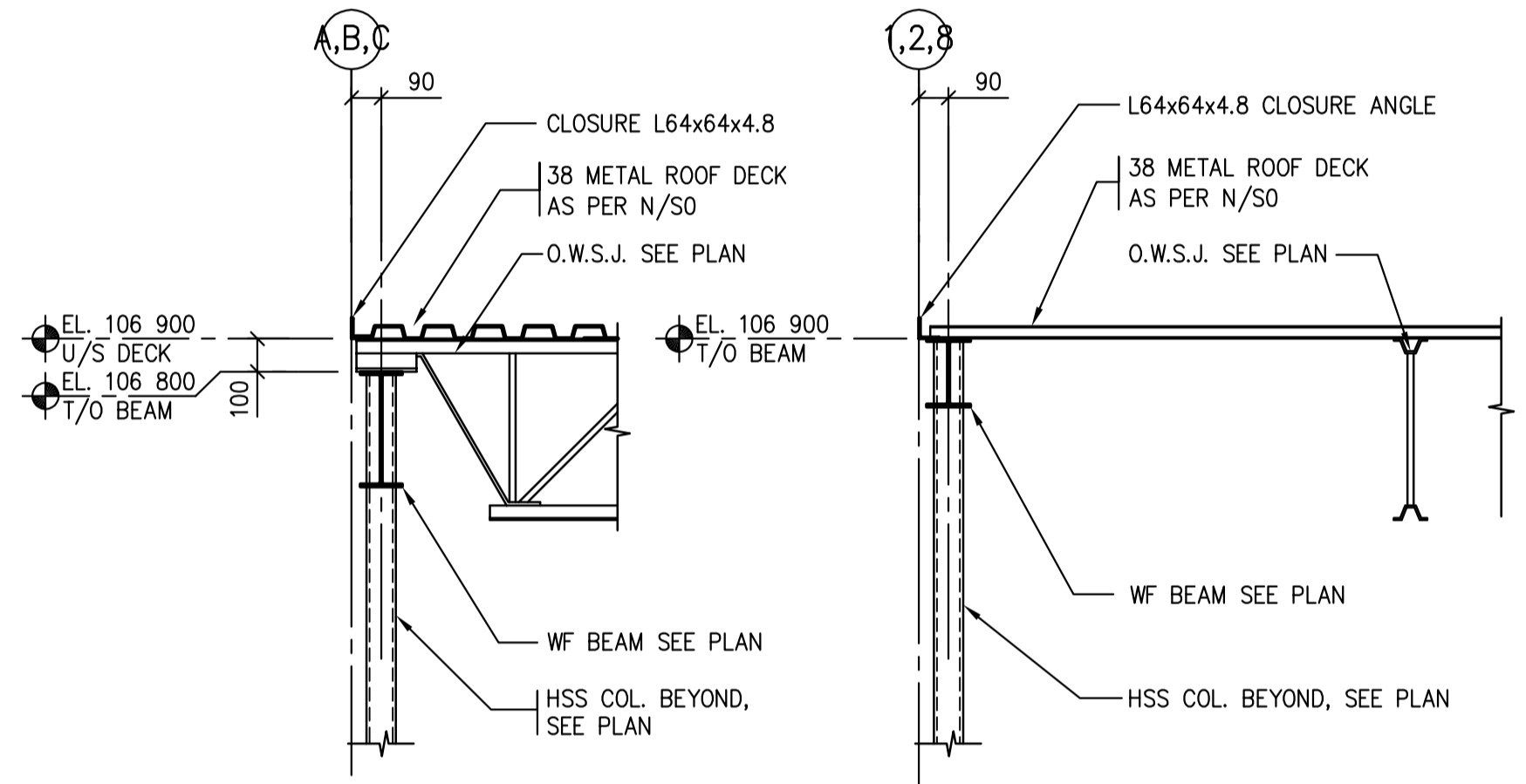
2 SECTION
S2.1|S3.5 1:20



3 SECTION
S2.1|S3.5 1:20

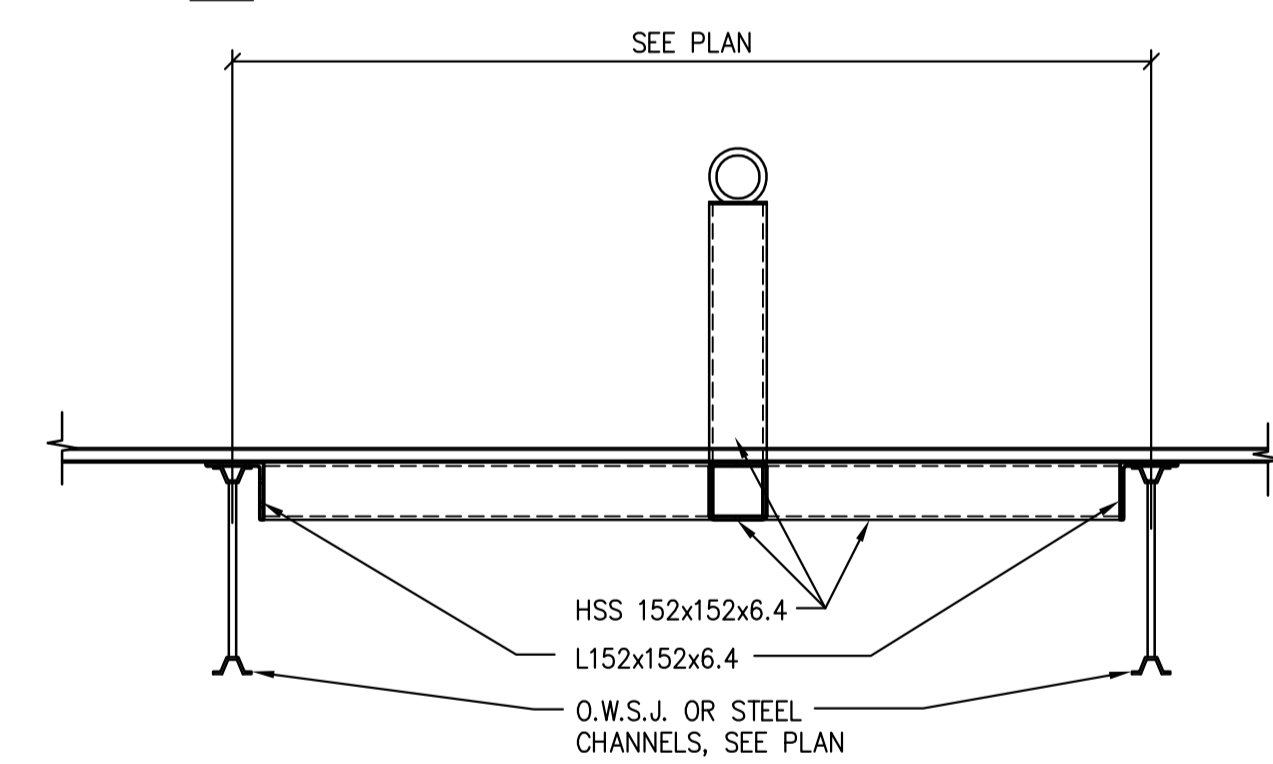


PLAN

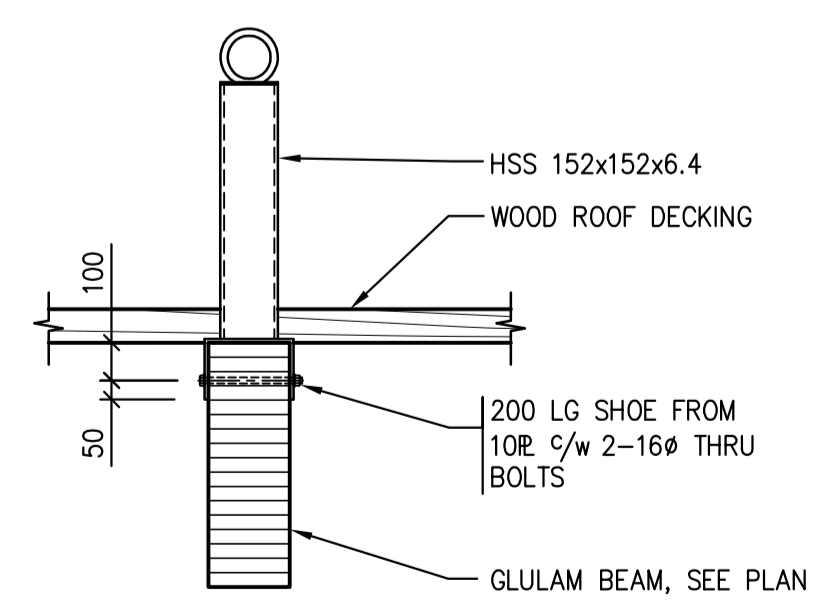


5 SECTION
S2.2|S3.5 1:20

6 SECTION
S2.2|S3.5 1:20



4 TYP. TIE OFF FRAME @ STEEL FRAMING
S2.1|S3.5 1:20



7 TYP. TIE OFF FRAME @ WOOD ROOF
S2.1|S3.5 1:20



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DO NOT SCALE DRAWINGS

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0	ISSUED FOR TENDER	2015/09/24

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Project title/Titre du projet

NEW POLICE BUILDING
ONION LAKE, SASKATCHEWAN

Approved by/Approve par
 Designed by/Conceptr par
 S.K.
 Drawn by/Dessine par
 B.R.
 Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
 Ressources Architectural et de Directeur d'ingénierie
 Client/client

Drawing title/Titre du dessin
SECTIONS AND DETAILS

Project No./No. du projet 24/2014	Sheet/Fauille S3.5	Revision no./La Révision no. 0
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