

GENERAL NOTES

- 1. IN THE CASE OF DISCREPANCIES BETWEEN THE GENERAL NOTES, THE PLANS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL RESPECT THE MOST RESTRICTIVE REQUIREMENTS.
2. NO DIMENSIONS ARE TO BE MEASURED ON THE PLANS, EVEN IF THEY ARE TO SCALE.
3. FOR CONSTRUCTION WORK, THE CONTRACTOR MUST HAVE AND USE A COPY OF THE PLANS ISSUED FOR CONSTRUCTION, SIGNED AND STAMPED BY THE ENGINEER AT THE START OF WORK...

CONCRETE NOTES

- 1. ALL CONCRETE WORK MUST BE DESIGNED AND PERFORMED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE CANCSA-23, 1402, 23A23, 33A23 & STANDARDS.
2. CONCRETE IS SPECIFIED BY VARIANT 1 - PERFORMANCE-BASED PROCEDURE, AS INDICATED IN THE CSA A23.1 STANDARD. THE CONTRACTOR AND CONCRETE SUPPLIER MUST MEET ALL CERTIFICATION, CALIBRATION AND QUALIFICATION REQUIREMENTS.
3. THE CONTRACTOR AND CONCRETE SUPPLIER MUST ENSURE THAT THE WET CONCRETE PROPERTIES AND CURED CONCRETE PROPERTIES MEET THE SITE REQUIREMENTS FOR HANDLING, PLACING AND FINISHING...

STEEL NOTES

- 1. ALL STRUCTURAL STEEL WORK MUST BE DESIGNED, FABRICATED AND EXECUTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE CANCSA S16 STANDARD AND THE NATIONAL BUILDING CODE BRACING ASSEMBLIES MUST BE IN ACCORDANCE WITH CLAUSE 27 OF CANCSA S16 STANDARD.
2. WELDING WORK: ALL WELDING WORK MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CANCSA S16 STANDARD. WELDS MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE WAT, 1, W59 AND W160 STANDARDS.
3. STEEL GALVANIZATION: HOT-DIP GALVANIZATION IN ACCORDANCE WITH THE LATEST EDITION OF ASTM A123/A123M STANDARD...

EXCAVATION AND FILL NOTES

- 1. BEFORE BEGINNING EXCAVATION WORK, THE CONTRACTOR SHALL CONSULT THE GEOLOGICAL REPORT AND ALL GENERAL NOTES.
2. EXCAVATIONS AND EXCAVATION SLOPES SHALL BE IN ACCORDANCE WITH THE OHSA STANDARDS ACCORDING TO THE TYPE OF SOIL INDICATED IN THE GEOLOGICAL REPORT.
3. EXCAVATION WORK SHALL BE PERFORMED FOLLOWING RECTILINEAR OUTLINES, WHILE LEAVING SUFFICIENT SPACE FOR FORMWORK INSTALLATION.
4. THE CONTRACTOR SHALL MAINTAIN HIS OWN EXPERTS TO DETERMINE THE PROFILES AND CONSTRUCTION METHODS AND TO BEAR THE COSTS INHERENT TO THE CONSTRUCTION AND MAINTENANCE OF EXCAVATION SLOPES...

SEISMIC LOADS

SEISMIC FORCE RESISTING SYSTEM (SFRS)
SFRS: SYSTEM A CONNECTIONS: (2012 CBC CLAUSE 4.1.8.94.1.8.10)
LATERAL LOAD RESISTING SYSTEM
SEISMIC CONNECTED SHEAR WALLS (WOOD-BASED PANELS)
RE = 2.5
RS = 1.7
CSA STANDARD: CANCSA-S16-14
APPLICABLE CLAUSES: 27.1-21

STRUCTURAL SEPARATION

THE NEW & EXISTING STRUCTURAL HAVE BEEN SEPARATED IN ACCORDANCE WITH 4.1.8.14 (1) OF THE 2012 CBC
SYSTEM RESTRICTION VALUE
STATIC PERIOD DATA
BRACED FRAMES
SHEAR WALLS



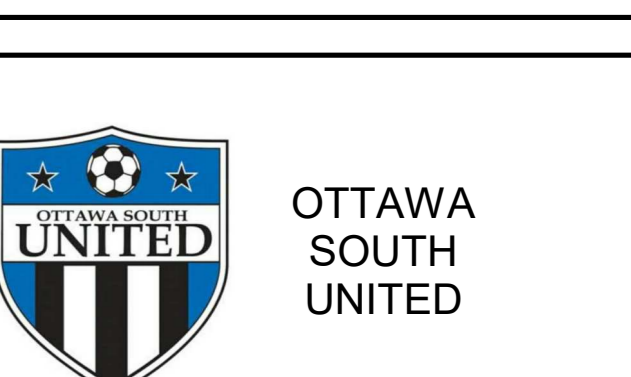
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OTTAWA SOUTH UNITED HOUSE
5650 MITCH OWENS ROAD
OTTAWA, ONTARIO

OTTAWA SOUTH UNITED FIELD HOUSE
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Table with 3 columns: No., Date, Description. Row 1: 1, 2023.05.31, ISSUED FOR PERMIT.

Discipline / Discipline: STRUCTURE
The du / du / du / Drawing title: STRUCTURE

GENERAL NOTES
Numero de projet / Project number: META-003
Page #: 5000

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Nom du projet / Project name:

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Emission-Révision / Issue for Revision:

No.	Date	Description
1	2023.05.31	ISSUED FOR PERMIT

Conçu par / Designed by: Marc Forques, P.Eng. PE(O) 100078511

Révisé par / Reviewed by: Marc Forques, P.Eng. PE(O) 100078511

Equipe technique / Technical team: Mitchel Lavallée

Date / Date: 2022

Discipline / Discipline: STRUCTURE

Titre du feuille / Drawing title: TYPICAL DETAILS

**GENERAL**

STEEL: Fy = 400 MPa

BAR	TENSION	COMPRESSION
10M	450mm	300mm
15M	700mm	450mm
20M	1000mm	600mm
25M	1500mm	750mm
30M	2000mm	900mm
35M	2100mm	1000mm

**MINIMUM REINFORCEMENT SPLICE**

OPENING	BRICK ANGLE SIZE
UP TO 150mm	L50x90#
151 - 190mm	L50x90#
191 - 210mm	L100x90#
211 - 240mm	L125x90#
241 - 270mm	L150x90#
271 - 300mm	L150x100#

**LOOSE LINTEL SCHEDULE FOR BRICK**

BAR LENGTH	NO. OF CHAIRS
8'-0" (2400) OR LESS	3
8'-0" (2400) TO 12'-0" (3600)	4
12'-0" (3600) TO 16'-0" (4800)	5

CHAIRS AT 4'-0" (1200) O.C. MAX.

TOP STEEL GALVANIZED OR PLASTIC COVERED CHAIRS

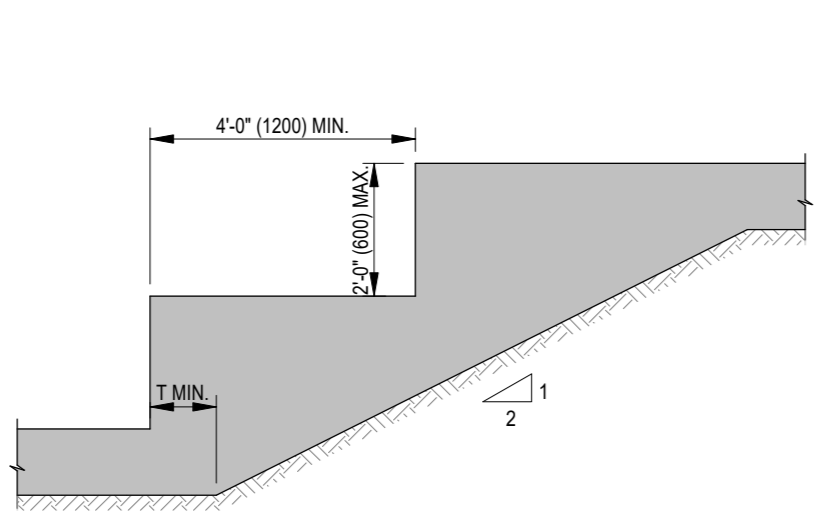
MAIN REINFORCING OR 15M MIN. CHAIR BARS

CHAR

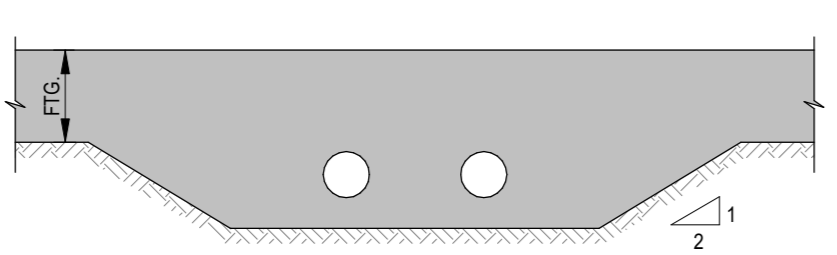
B BOTTOM STEEL PLASTIC BOLSTERS SLABS BOLSTERS @ 4" (100) O.C. MAX. 2 OR BEAMS BOLSTERS @ 3" (80) O.C. MAX.

**TYP. REINFORCING CHAIR SCHEDULE**

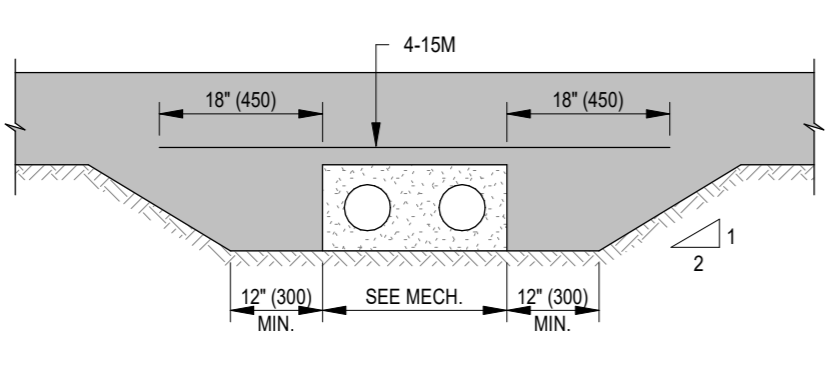
**FOOTINGS**



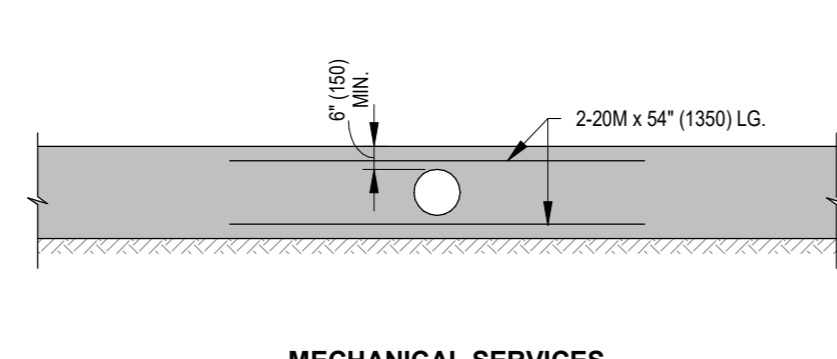
**STEP FOOTINGS**



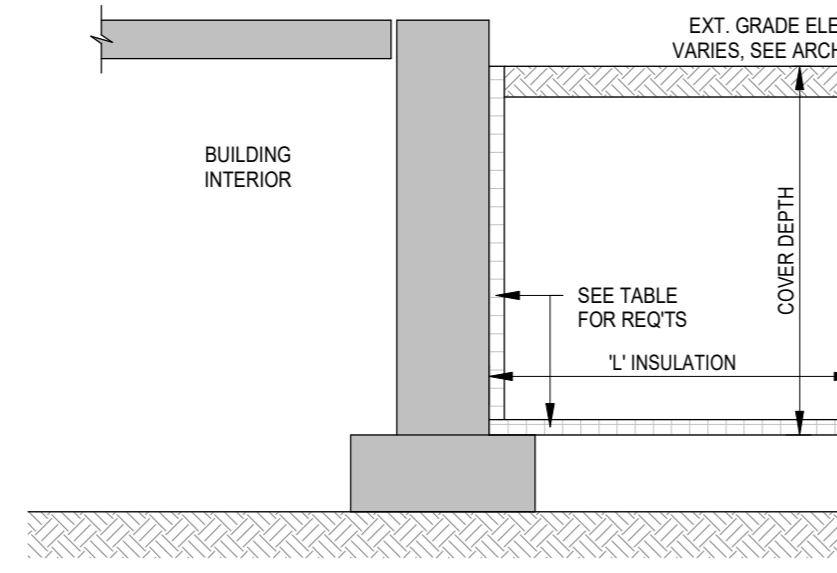
**MECHANICAL SERVICES (UNDER FOOTINGS)**



**MECHANICAL SERVICES TRENCH (UNDER FOOTINGS)**



**MECHANICAL SERVICES (THROUGH CONTINUOUS STRIP FOOTINGS)**



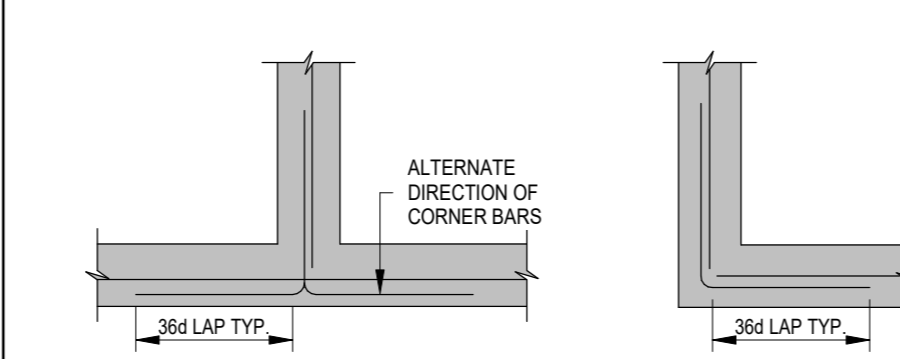
**TYPICAL EXTERIOR FOOTING INSULATION DETAIL**

CONFIRM WITH GEOTECHNICAL ENGINEER

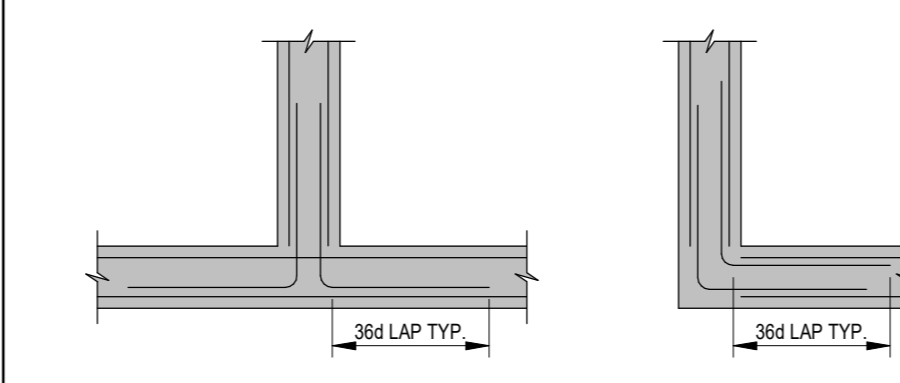
COVER DEPTH (mm)	INSULATION DIMENSIONS	
	L insulation (mm)	T insulation (mm)
LESS THAN 3" (80)	NOT RECOMMENDED	
3" (80) TO 3" (80)	72" (1800)	2" (50)
3" (80) TO 3" (80)	48" (1200)	2" (50)
3" (80) TO 48" (1200)	48" (1200)	1.12" (28)
48" (1200) TO 60" (1500)	38" (960)	1" (25)
GREATER THAN 60" (1500)	NOT REQUIRED	

- NOTES:**
- CONSULTANT GEOTECHNICAL ENGINEER FOR THERMAL RESISTANCE VALUES OF ACCEPTABLE INSULATION TYPES.
  - INSULATION REQUIRED DOWN OUTSIDE FACE OF FOUNDATION WALL AND OUTSIDE FROM WALL AS SHOWN.
  - ALL EXTERIOR FOOTINGS ARE TO FOLLOW THESE REQUIREMENTS UNLESS DIRECTED OTHERWISE BY GEOTECHNICAL ENGINEER.

**WALLS**



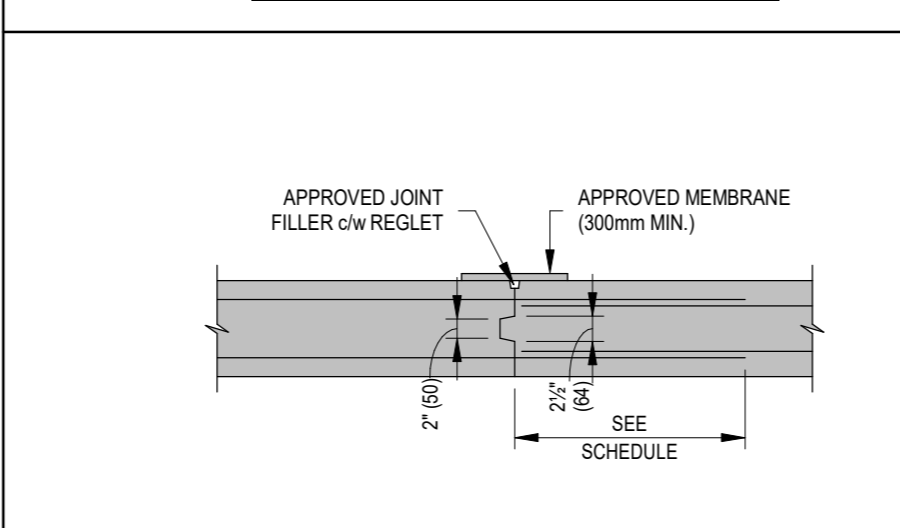
**TYPICAL SINGLE LAYER REINFORCED WALL**



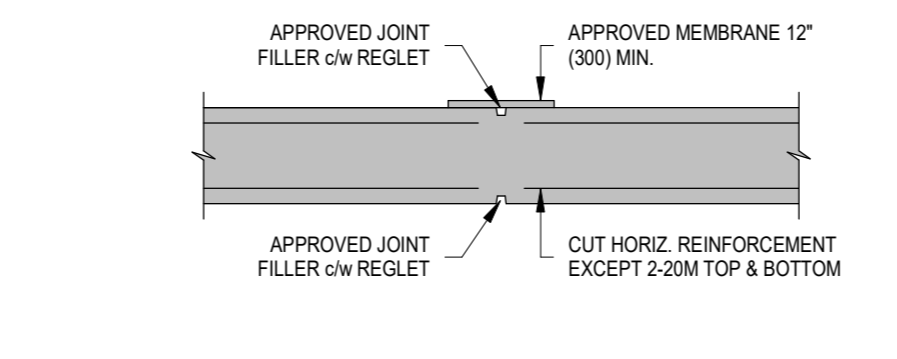
**TYPICAL DOUBLE LAYER REINFORCED WALL**

SEE PLANS AND SECTION FOR SIZE & REINF. OF WALLS

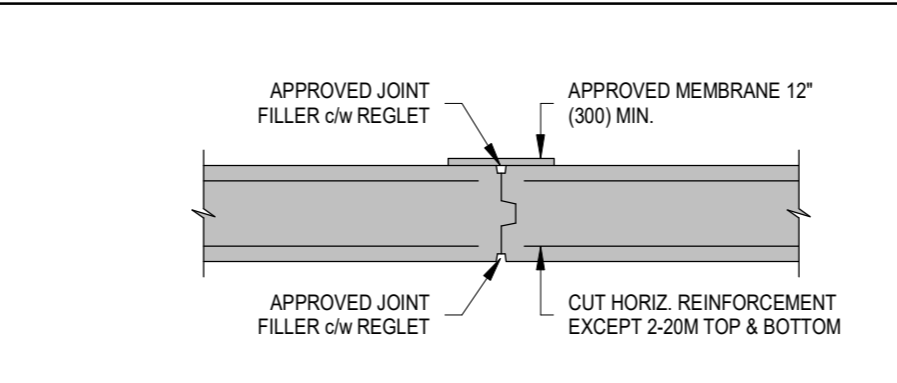
**TYP. FDN. WALL INTERSECTION REINFG**



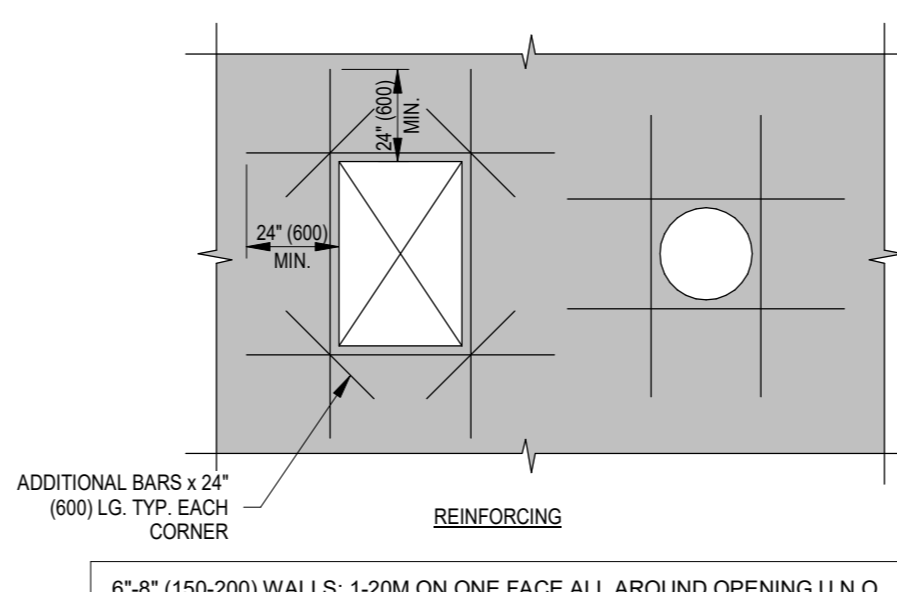
**CONSTRUCTION JOINTS (STANDARD WALLS)**



**CONTROL JOINTS (STANDARD WALLS)**

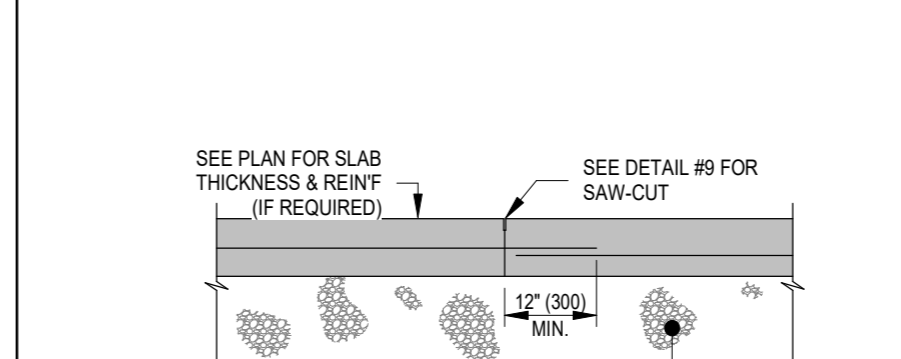


**EXPANSION JOINTS (STANDARD WALLS)**

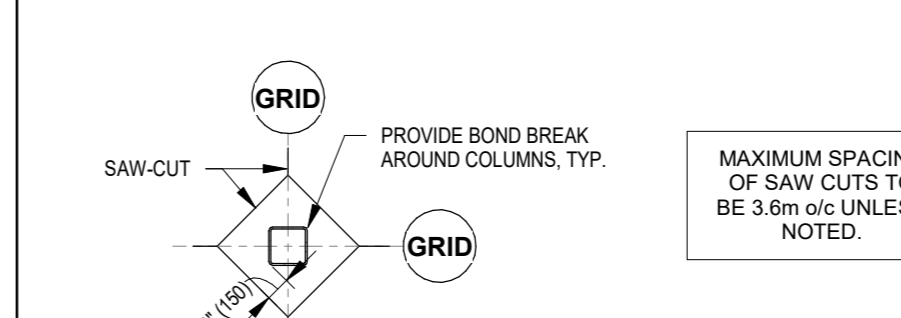


**HOLES IN FOUNDATION WALLS**

**SLAB-ON-GRADE**

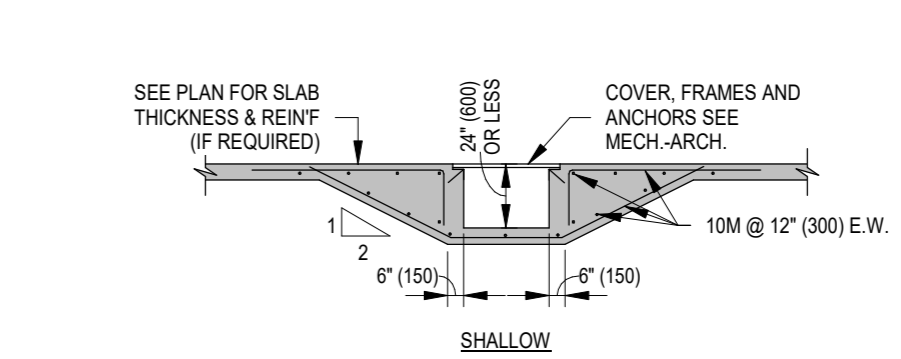


**SLAB-ON-GRADE JOINT (SLAB-ON-GRADE)**

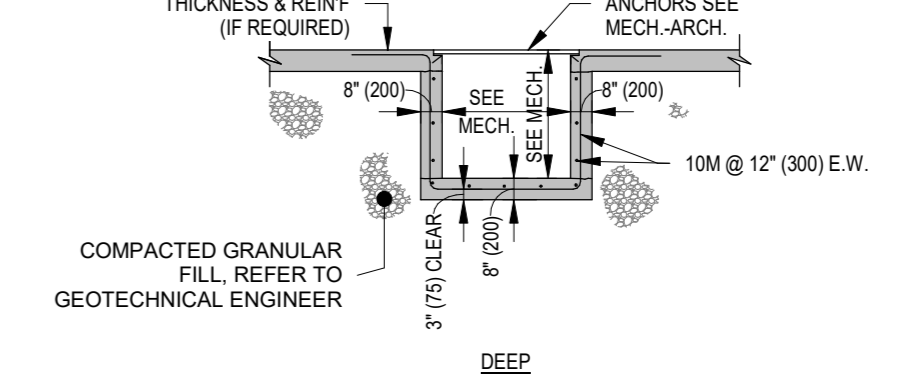


**SAW-CUT DETAIL**

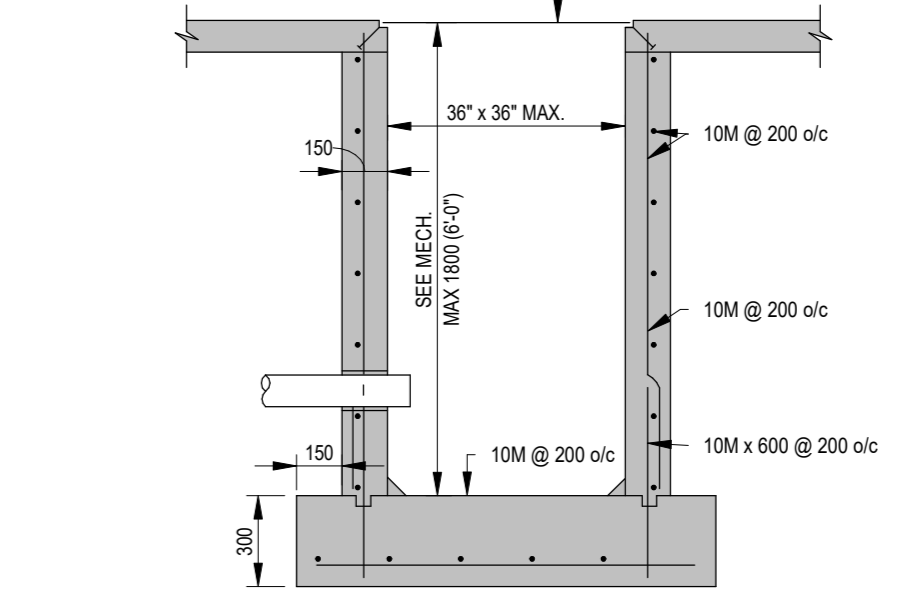
**TRENCHES / PITS**



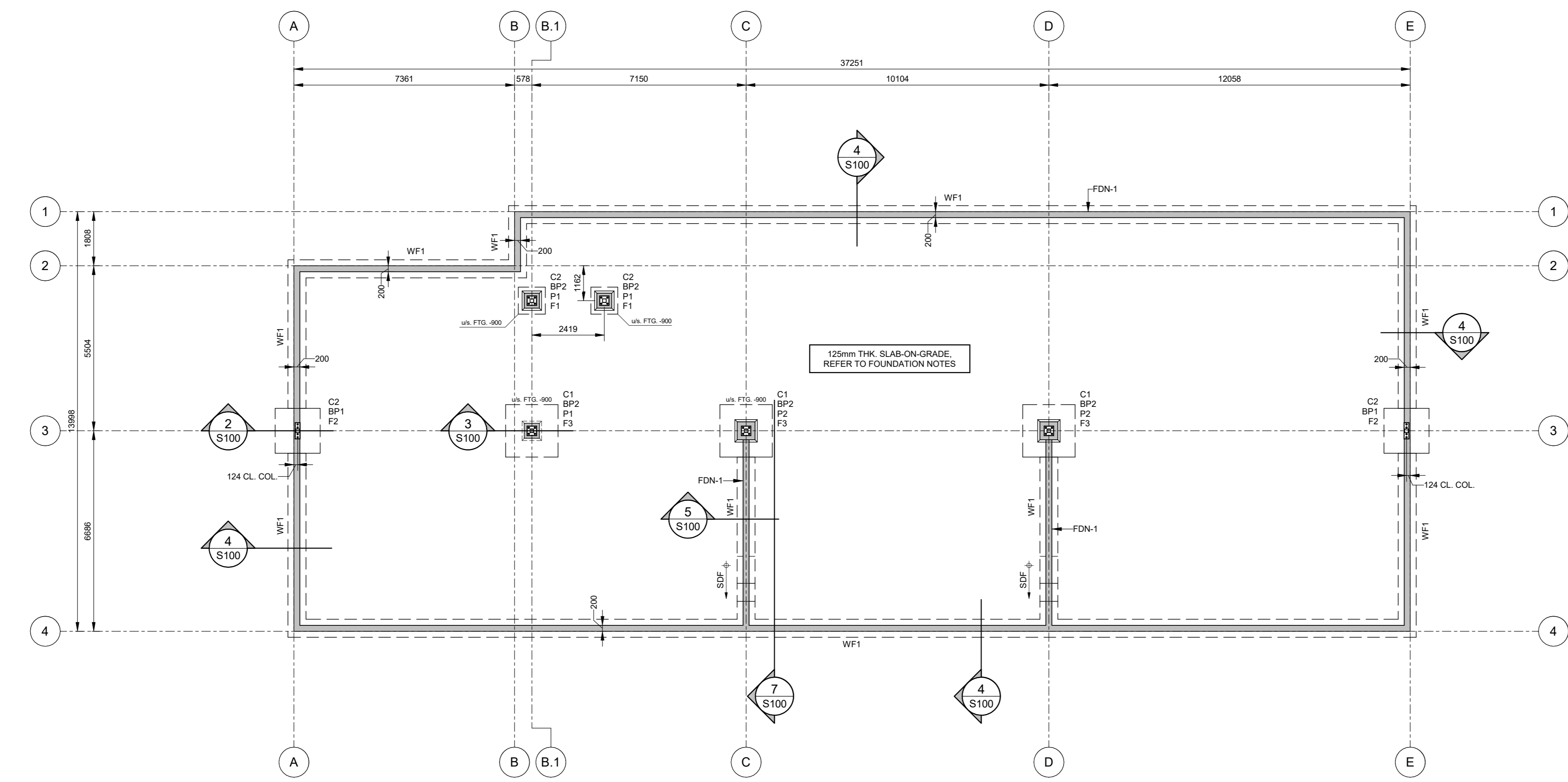
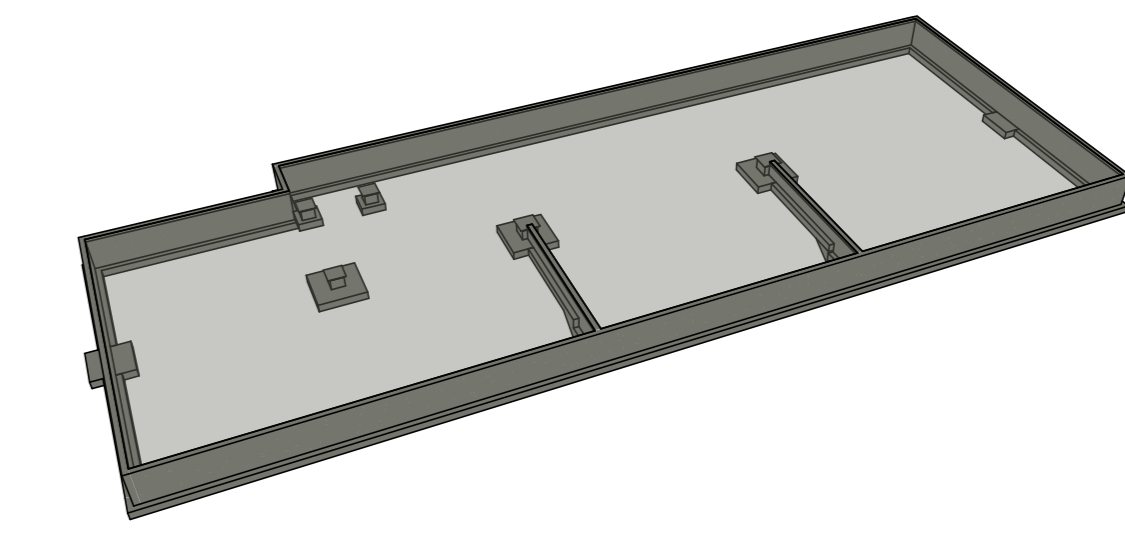
**SHALLOW**



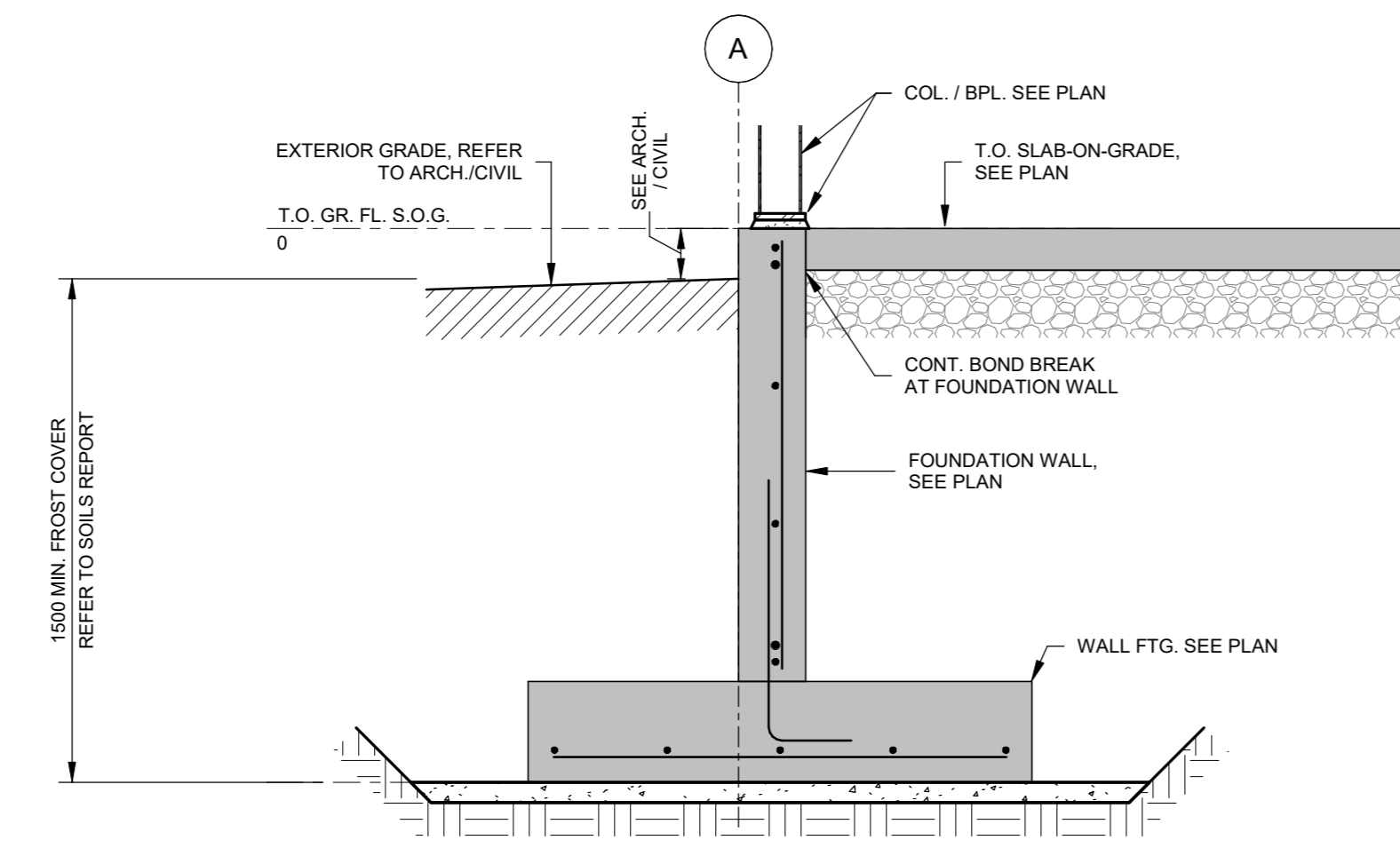
**TRENCHES**



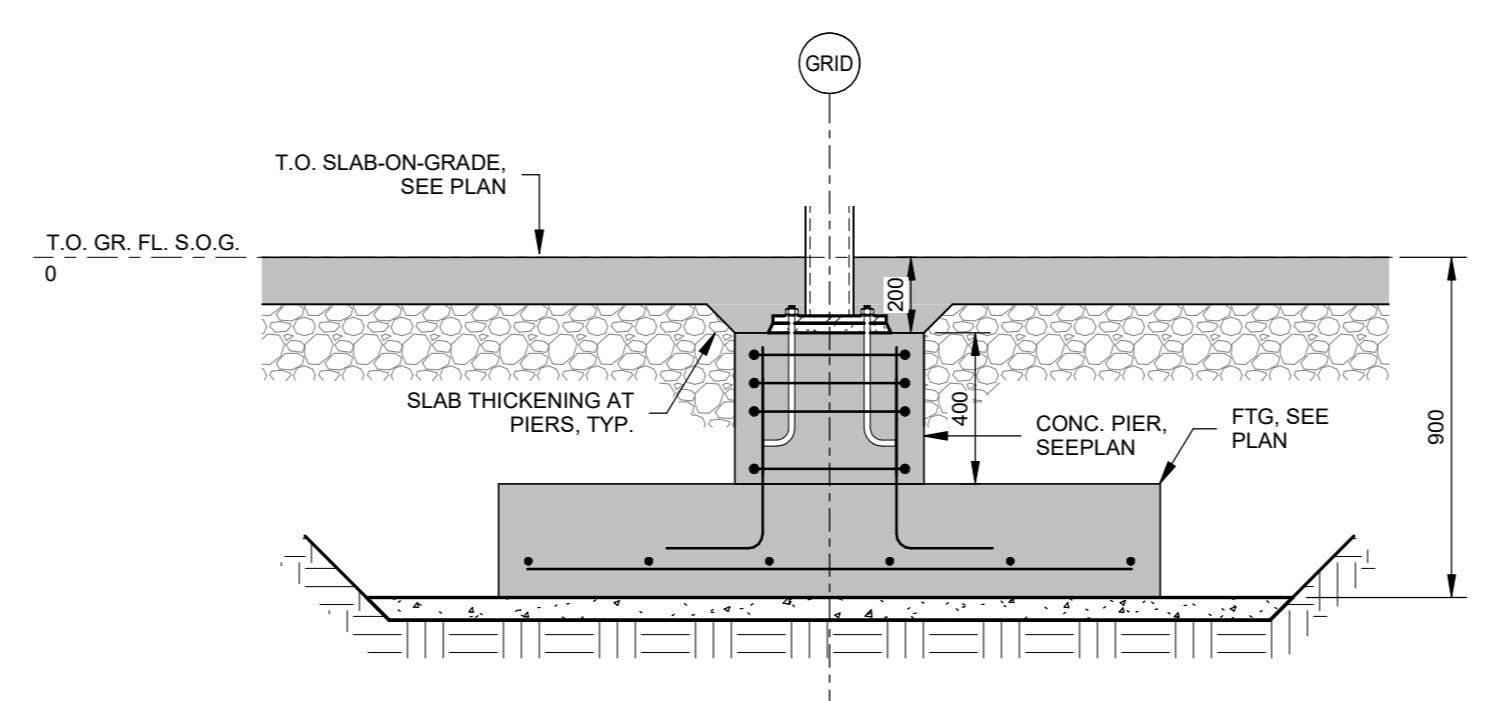
**CATCH BASIN, SUMP PIT & OIL INTERCEPTOR**



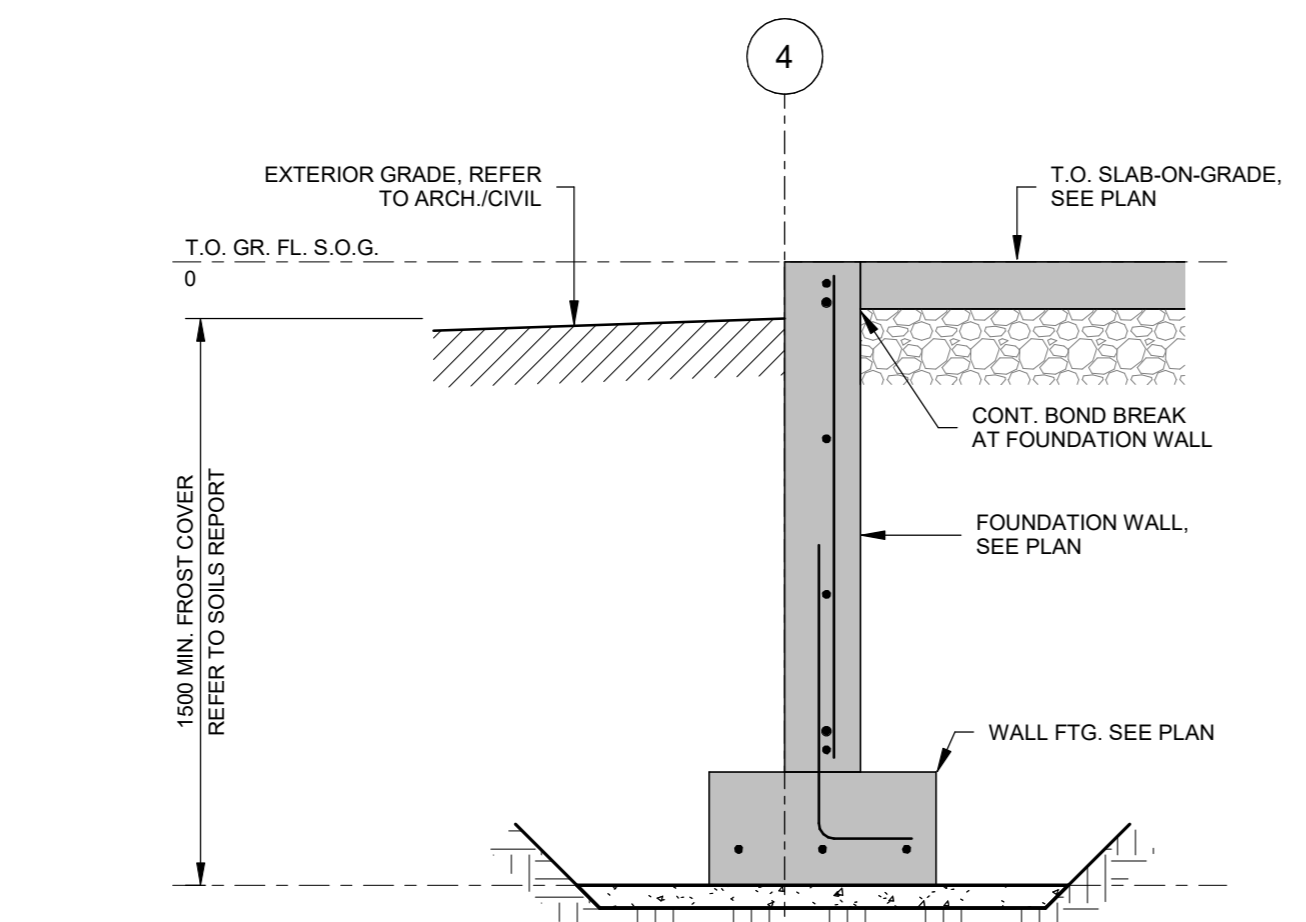
1 FOUNDATION PLAN  
S100 1:100



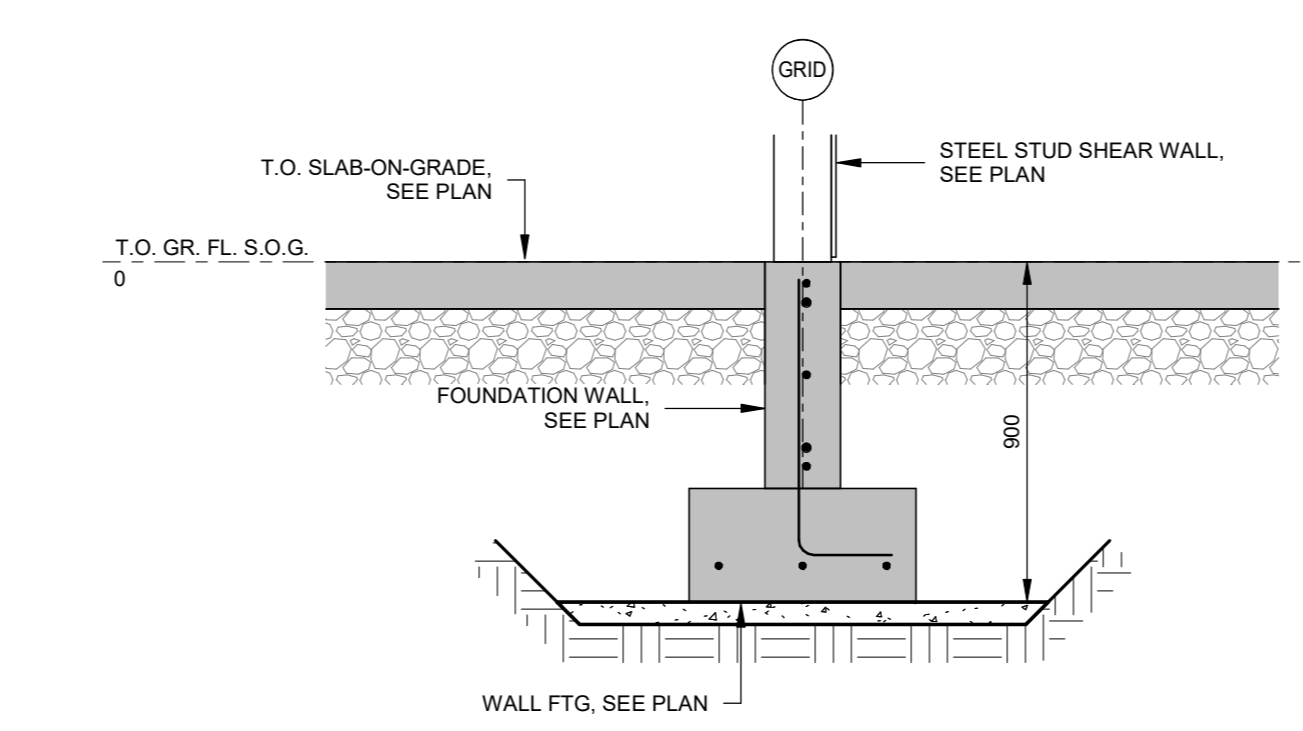
2 SECTION DETAIL  
S100 1:20



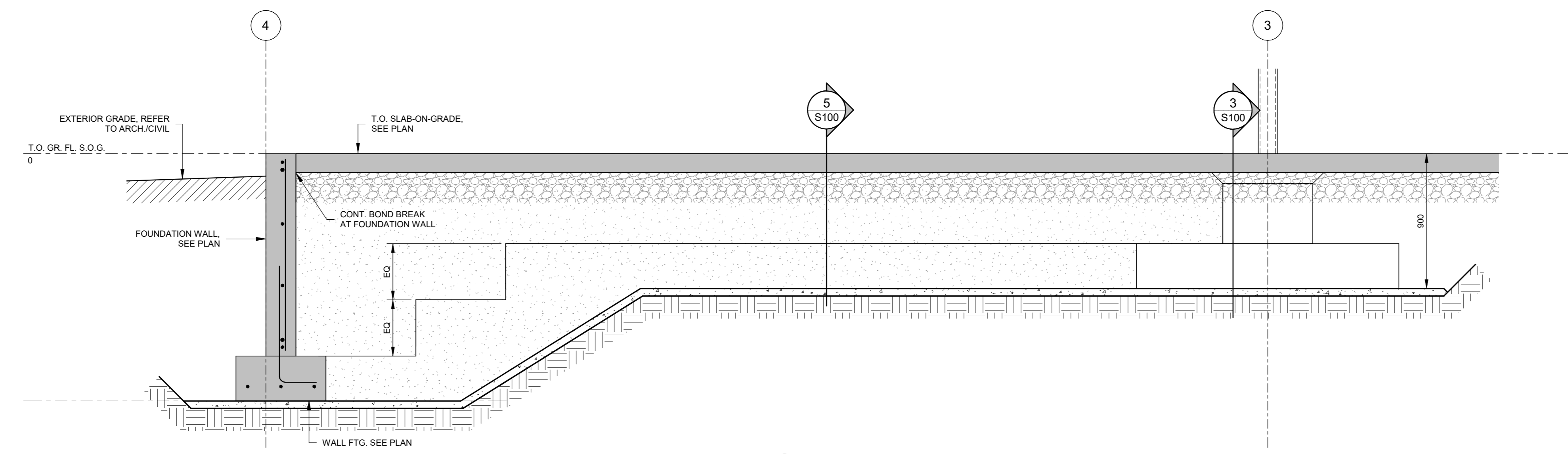
3 SECTION DETAIL  
S100 1:20



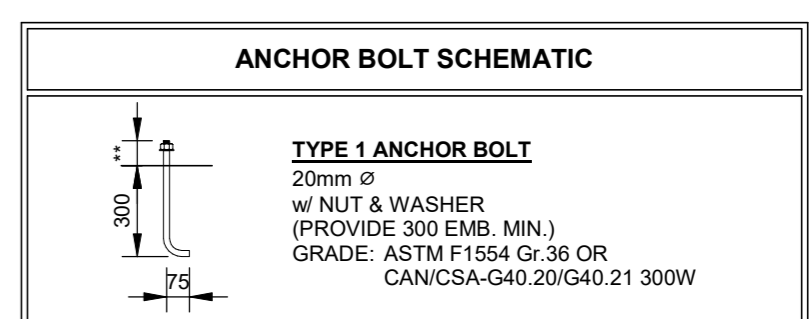
4 SECTION DETAIL  
S100 1:20



5 SECTION DETAIL  
S100 1:20

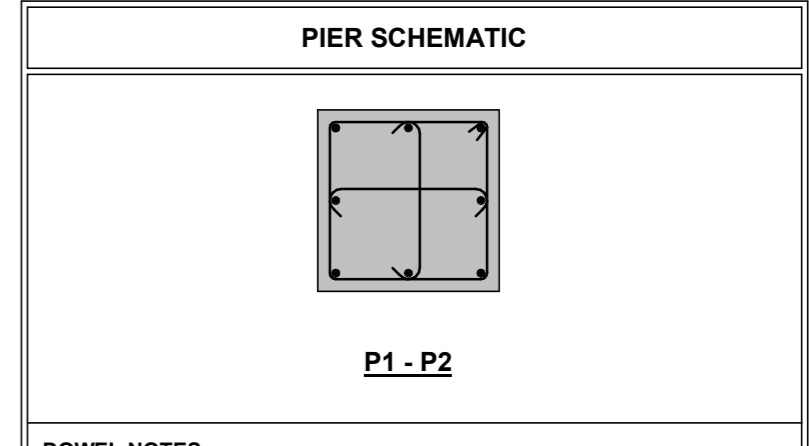


7 SECTION DETAIL  
S100 1:20



**ANCHOR BOLT SCHEMATIC**  
**TYPE 1 ANCHOR BOLT**  
20mm dia  
W/ NUT & WASHER  
(PROVIDE 300 EMB. MIN.)  
GRADE: ASTM F1554 GR 55 OR  
CAN/CSA-G40.20/G40.21 300W

**NOTES:**  
1. ENSURE TO HAVE PROPER ANCHOR BOLT PROJECTION FROM T.O. PIER / WALL TO SUIT BASE PLATE & GROUT THICKNESS  
2. ANCHORS & BRACEFRAME HAVE BEEN DESIGNED IN ACCORDANCE WITH CL. 4.1 & 16, CBC 2015 & CL. 27.11, CAN/CSA-S16-09



**PIER SCHEMATIC**  
**P1 - P2**

**DOWEL NOTES:**  
1. DOWELS FROM FOOTING TO MATCH PIER VERTICAL REINFORCING IN SIZE AND SPACING / LAYOUT  
2. DOWELS TO BE FULL HEIGHT OF PIER OR TO HAVE TENSION LAP.

**TIES / HAIRPINS NOTE:**  
1. TIES = TIES SQUARE (OR DOUBLE) OR  
TIES = HAIR PINS WHERE REQUIRED

**FOUNDATION NOTES**  
**GENERAL:**  
• SEE '300' SERIE DRAWINGS FOR GENERAL NOTES AND TYPICAL DETAILS  
• REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS  
**T.O. SLAB-ON-GRADE @ EL. 0.0m, TYP. U.N.O.**  
**SLAB-ON-GRADE:**  
• T.O. NON-REINFORCED CONCRETE SLAB-ON-GRADE TYP. U.N.O.  
• CONSULT SOILS ENGINEER FOR COMPRESSION AND COMPACTION OF SOILS SUPPORTING SLAB-ON-GRADE.  
• SAW-CUT NEW SLAB-ON-GRADE AT SPACING NOT TO EXCEED 3.0m (12'-0") IN EACH DIRECTION @ 440z2 (1440z) MAX PER PANEL.  
• PROVIDE SLOPES TO FLOOR DRAINS IN CONCRETE SLABS WHERE & IF REQUIRED. REFER TO ARCHITECTURAL, AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

**FOUNDATION WALLS:**  
T.O. FOUNDATION WALL @ EL. 0.0m, TYP. U.N.O.  
**FOOTINGS:**  
• SEE '300' DRAWING AND SOILS REPORT FOR ELEVATIONS AND FOR SOILS CAPACITY REQUIREMENTS, U.S. OF FOOTING EL. VARIES. SEE PLAN  
• PROVIDE DOWELS IN FOOTINGS FOR PIERS, & FOUNDATION WALL ABOVE. MATCH NUMBER, SIZE & SPACING IN PIER & FOUNDATION WALLS U.N.O.  
• ALL FOOTINGS TO BE CENTRED ON COLUMNS & FOUNDATION WALLS U.N.O.  
**PIERS:**  
• T.O. INTERIOR PIERS @ EL. -200mm TYP. U.N.O.  
• ALL PIERS TO BE CENTRED ON COLUMNS U.N.O.

**SCHEDULE - STEEL COLUMN**

MARK	DESCRIPTION
CT	HSS 127x17x4.3
C2	HSS 127x17x6.4

**SCHEDULE - BASEPLATE**

MARK	DESCRIPTION	ANCHORS	COMMENTS
BP1	1500x300	(4) TYPE 1	ult. BRP - 225mm
BP2	300x300x25	(4) TYPE 1	ult. BRP - 225mm

**SCHEDULE - FOOTING**

MARK	SIZE	REINFORCING	COMMENTS
F1	900 x 900 x 300 DP	3-15M BOT. E.W.	-
F2	1500 x 1500 x 300 DP	5-15M BOT. E.W.	-
F3	1750 x 1750 x 300 DP	6-15M BOT. E.W.	-
WF1	600 WIDE x 300 DP	2-15M BOT. CONT.	-

**SCHEDULE - FOUNDATION WALL**

MARK	WIDTH	CONT. TAB REINF.	VERT. REINF.	HORIZ. REINF.	DWLS
FDN-1	200	2-15M TAB CONT.	15M @ 400 o/c V. CL.	15M @ 400 o/c H. CL.	15M @ 400 o/c

**SCHEDULE - PIER**

MARK	SIZE (mm)	VERT. REINF.	TIES	ADDL. TIES	DOWELS	COMMENTS
P1	500 x 500	6-15M	10M @ 200 o/c	+ 2-10M @ 75 o/c TOP	8-15M	-
P2	600 x 600	8-15M	10M @ 200 o/c	+ 2-10M @ 75 o/c TOP	8-15M	-

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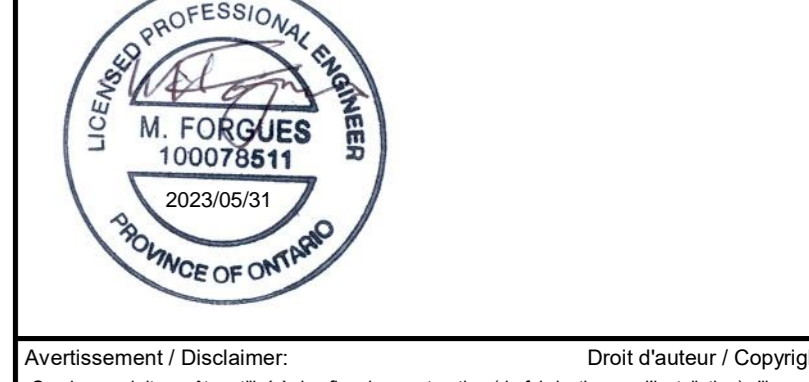
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Nom du projet / Project name:  
**OTTAWA SOUTH UNITED FIELD HOUSE**

5650 MITCH OWENS ROAD  
OTTAWA, ONTARIO

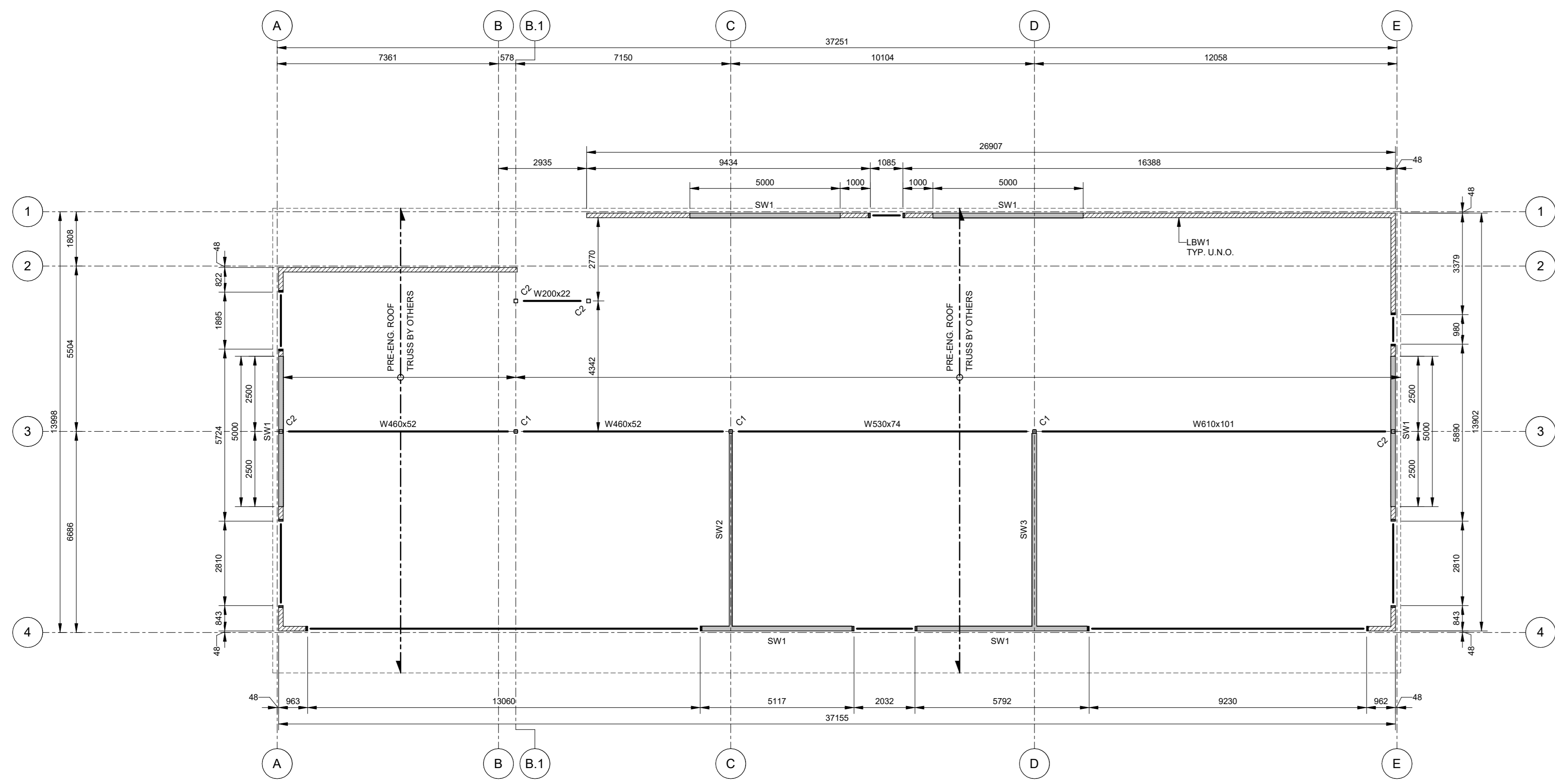
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Émission/Revision / Issue for Revision:

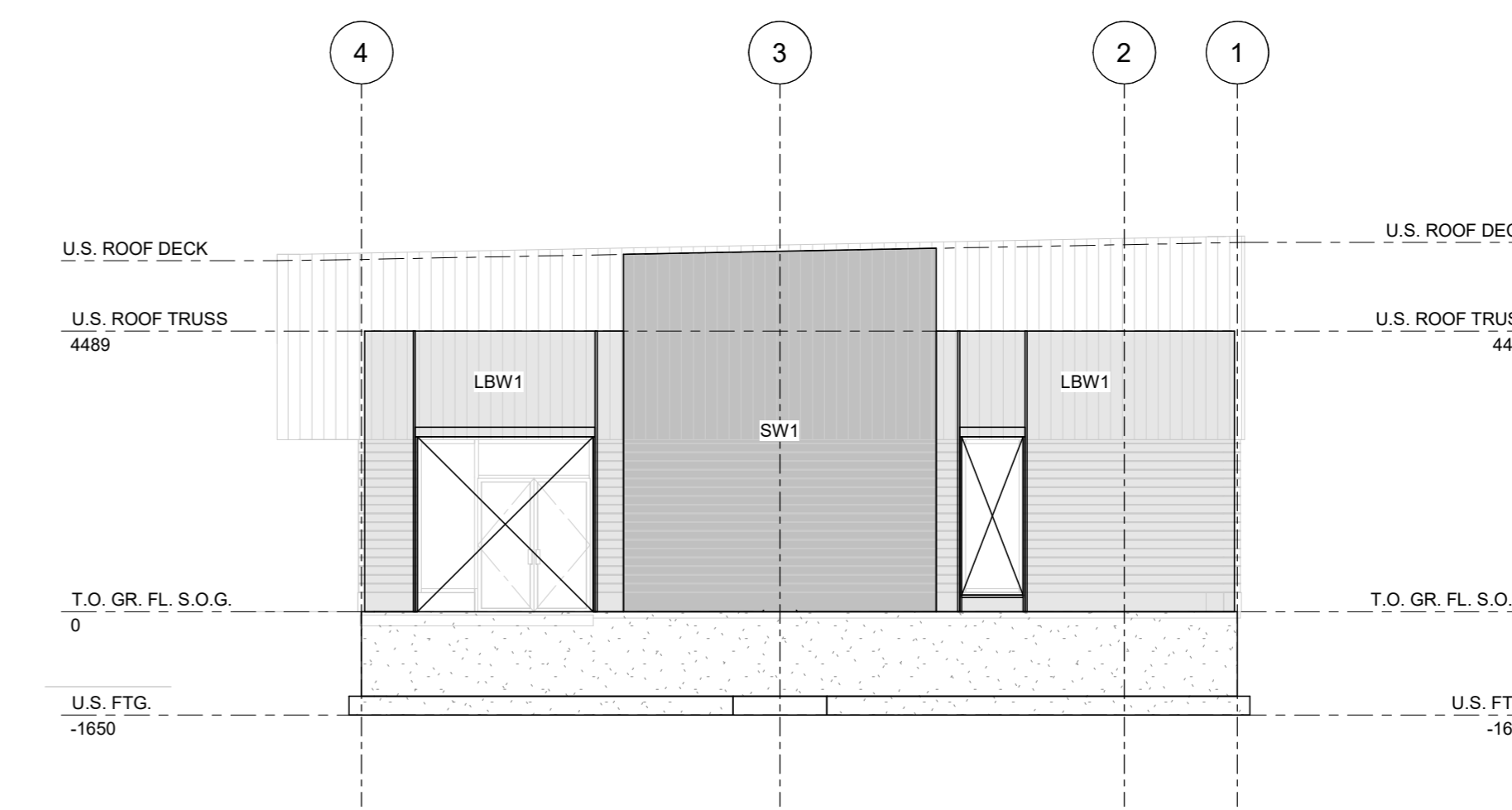
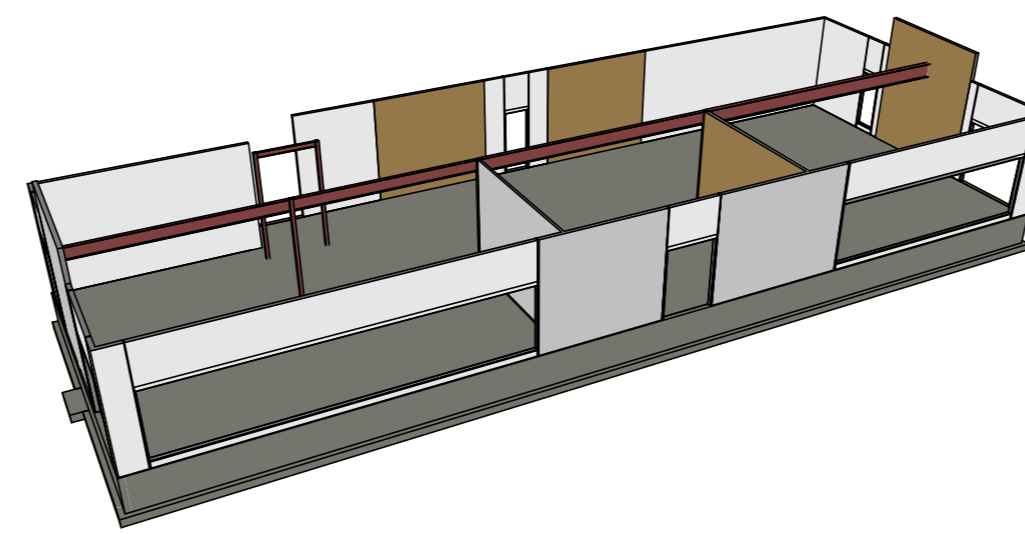
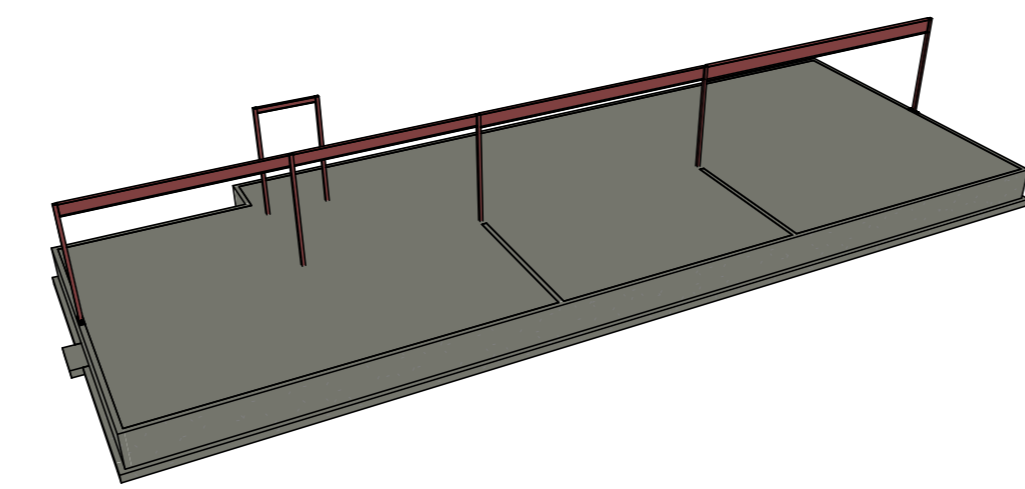
Date / Date: 2022  
Date 2022  
Discipline / Discipline: STRUCTURE  
The du feuille / Drawing title: FOUNDATION, GROUND FLOOR PLANS AND EXTERIOR WALL ELEVATIONS

Numéro de projet / Project number: META-003  
Page # : 1  
**S100**

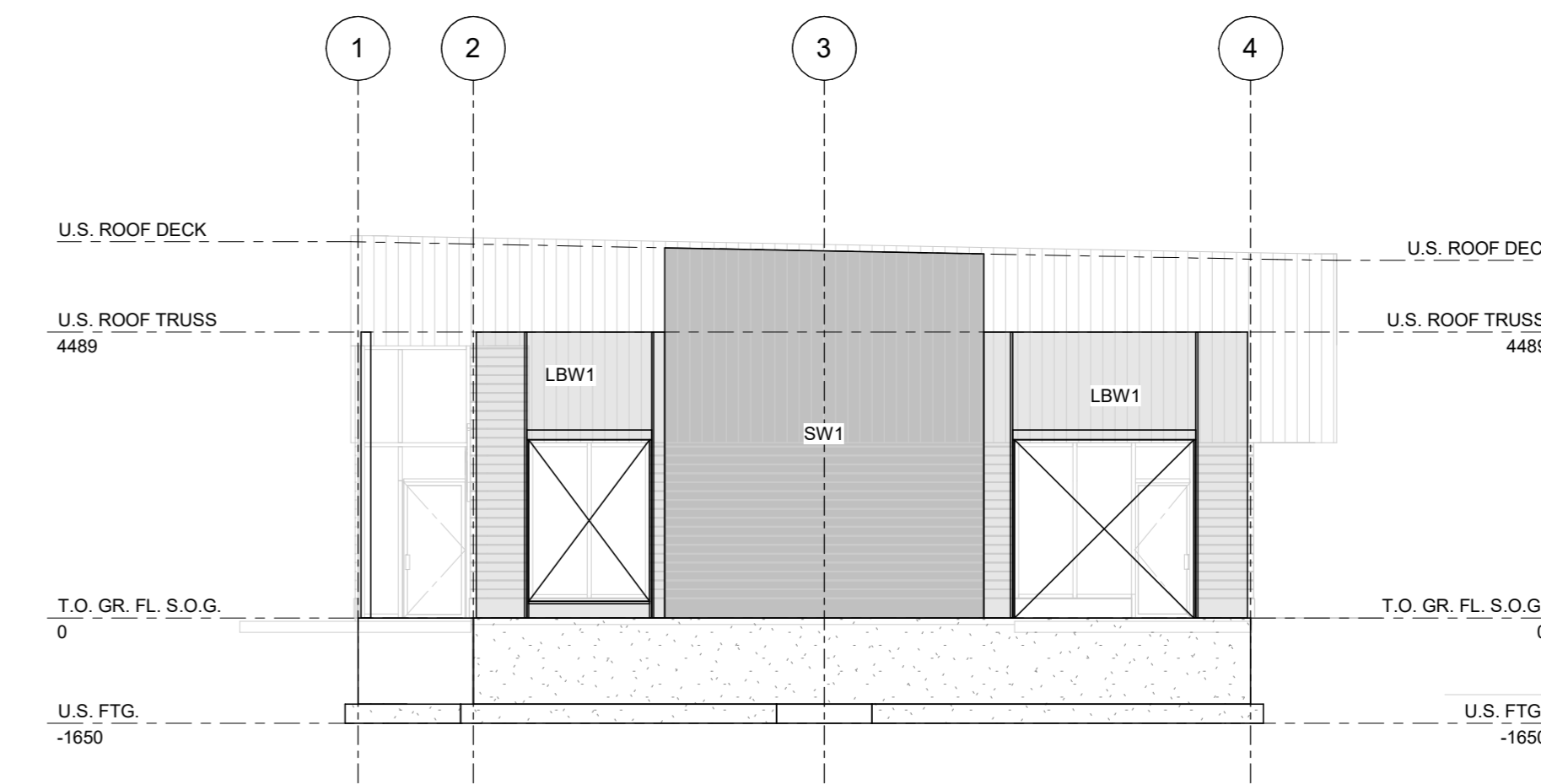


1 GROUND FLOOR LOAD BEARING WALL LAYOUT  
S101 1:100

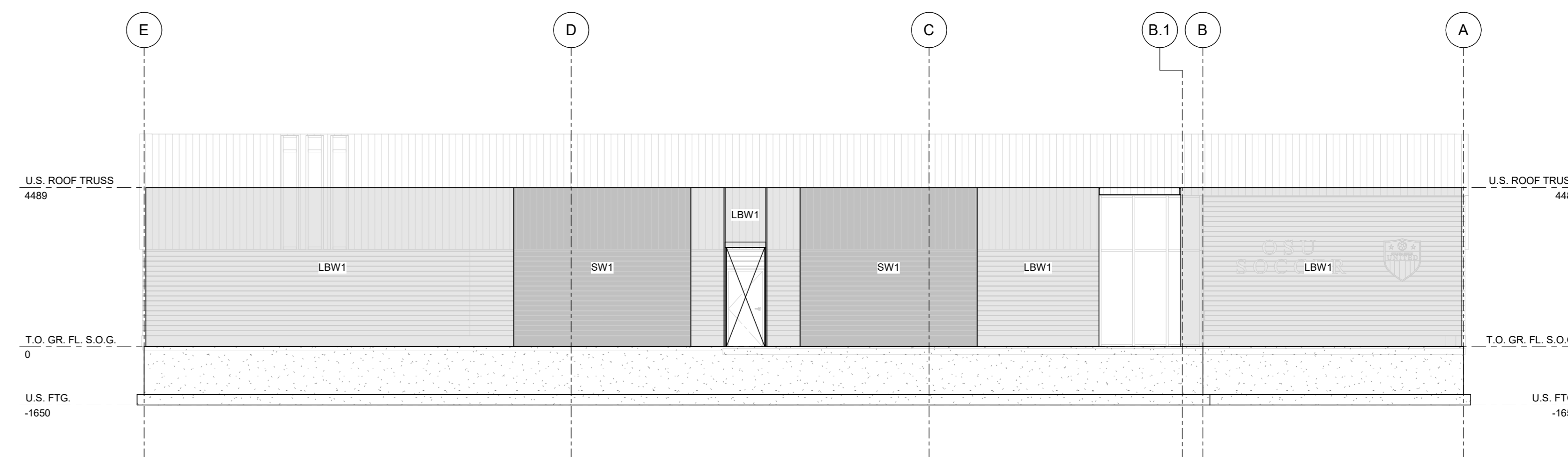
ROOF NOTES	
<b>MAIN ROOF</b> (3) STEEL DECK	
TOP OF STEEL STUD TRUSS EL. @ H.P.T. = SEE ARCH TOP OF STEEL STUD TRUSS EL. @ H.P.T. = SEE ARCH (T.O. STEEL STUD TRUSS = UNDERSIDE OF STEEL DECK)	
<b>STEEL DECK</b> 30mm x 1.2mm P3015 GALV. STEEL DECK U.N.O. (SEE ARCH. FOR PAINTING (IF REQUIRED))	
<b>FASTENERS TO STEEL SUB JOISTS</b> #10 SCREWS FASTENED AS SPOLOW. #15/7 @ SHEAR WALLS #15/4 @ OTHER WALLS	
<b>SIDLAPS</b> #10 SCREWS @ 600 o.c.	
<b>ROOF TRUSSES</b> PRE-ENG. STEEL STUD TRUSSES BY OTHERS WITH VARIABLE SLOPED TOP CHORD.	
<b>PERIMETER CLOSURE ANGLE</b> L64X84X5.4	
<b>DESIGN LOADS:</b> DEAD LOAD = 1.00 kPa SNOW LOAD = 2.32 kPa	
<b>GENERAL NOTES:</b> REFER TO S100 DRAWINGS FOR GENERAL NOTES AND TYPICAL DETAILS. REFER TO ARCH. FOR DIMENSIONS AND ELEVATIONS. REFER TO ARCH. DRAWINGS FOR ADDITIONAL SLOPED INSULATION REQUIREMENTS.	



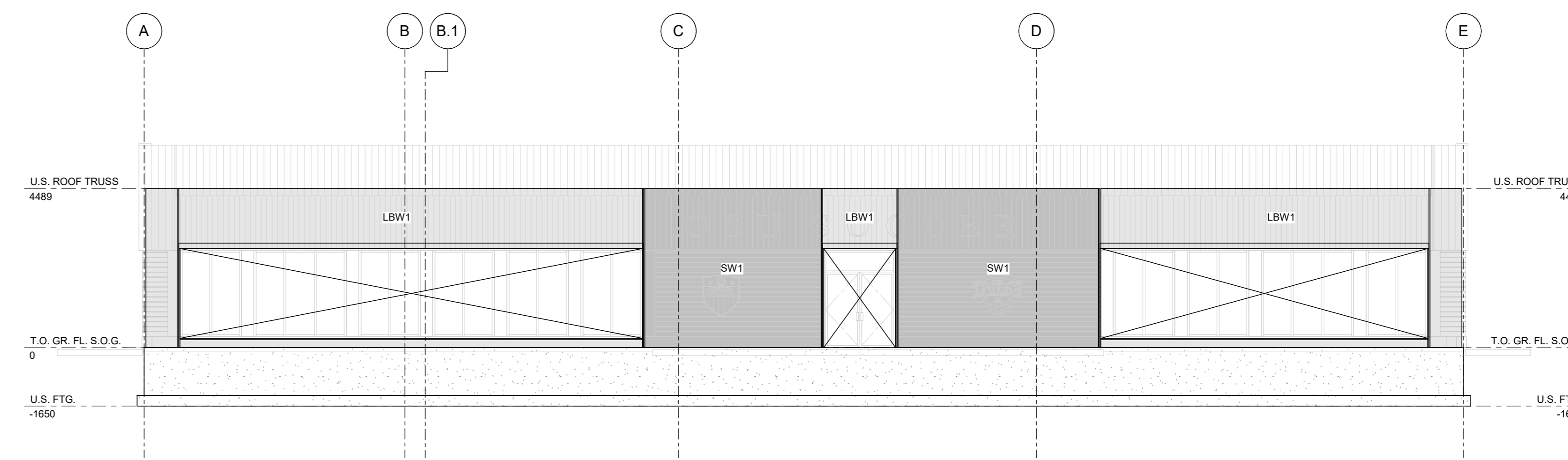
2 WALL ELEVATION ALONG GRID LINE A  
S101 1:100



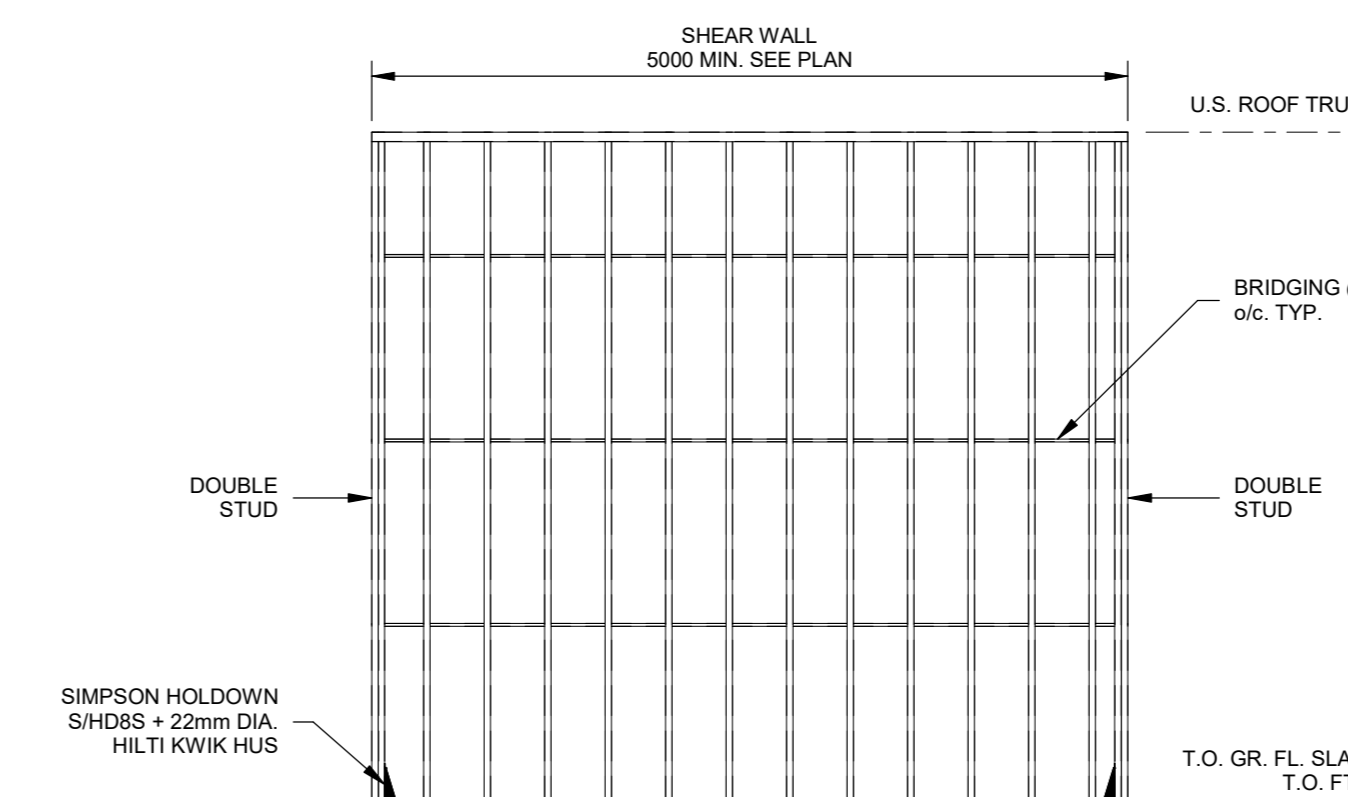
3 WALL ELEVATION ALONG GRID LINE E  
S101 1:100



4 WALL ELEVATION ALONG GRID LINE 1  
S101 1:100



5 WALL ELEVATION ALONG GRID LINE 4  
S101 1:100



6 TYPICAL SHEAR WALL ELEVATION  
S101 1:50

SCHEDULE - STEEL STUD LOAD BEARING WALL						
MARK	WALL WIDTH	VERT. STUDS	BOT TRACK	TOP TRACK	BRIDGING	COMMENTS
LBW1	152	600S162-54 @ 400 o.c.	600T162-54	600T162-54	150U050-54 @ 1220 o.c.	

SCHEDULE - STEEL STUD LOAD BEARING SHEAR WALL						
MARK	WALL WIDTH	VERT. STUDS	BOT TRACK	TOP TRACK	BRIDGING	COMMENTS
SW1	152	600S162-54 @ 400 o.c.	600T125-43	600T125-43	150U050-54 @ 1220 o.c.	SEE NOTE #1
SW2	92	362S162-43 @ 400 o.c.	362T125-43	362T125-43	150U050-54 @ 1220 o.c.	SEE NOTE #1
SW3	152	600S162-43 @ 400 o.c.	600T125-43	600T125-43	150U050-54 @ 1220 o.c.	SEE NOTE #1

**NOTE #1:**  
STEEL STUD SHEAR WALL TO HAVE 1.2mm OSB SHEATHING ON ONE SIDE WITH BLOCKING AT JOINTS AND SECURED WITH #8 SCREWS @ 150mm o.c. AT PERIMETER AND @ 300mm o.c. IN FIELD



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Nom du projet / Project name:

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Emission/Revision / Issue for Revision:

No.	Date	ISSUED FOR PERMIT
1	2023.05.31	

Conçu par / Designed by: **Marc Forques, P.Eng.** PE(O) 100078511  
Révisé par / Reviewed by: **Marc Forques, P.Eng.** PE(O) 100078511  
Équipe technique / Technical team: **Mitchel Lavalée**  
Date / Date: **2022** Echelle / Scale: **AS INDICATED**

Discipline / Discipline: **STRUCTURE**

Titre du feuille / Drawing title:

**STEEL STUD LOAD BEARING WALL PLAN & ELEVATIONS**

Numéro de projet / Project number: **META-003** Page #: **S101**