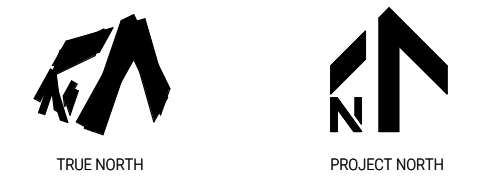




YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GWILLIMBURY

Key Plan

[illegible]

Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

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Checked by: W.PETER
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Project No: 24.065
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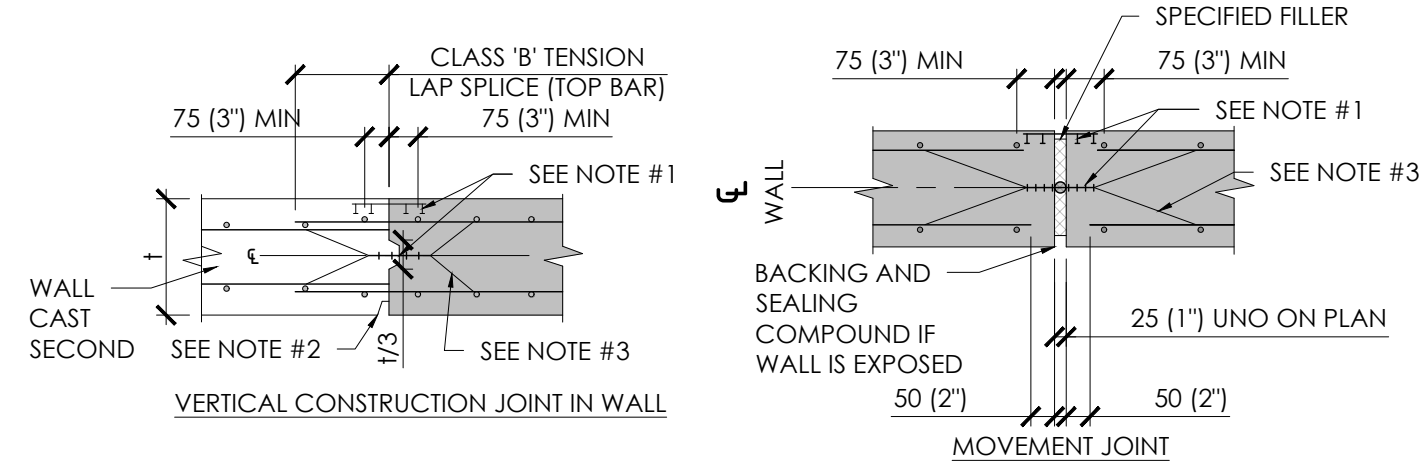


Sheet Title:

TYPICAL DETAILS

Drawing No.

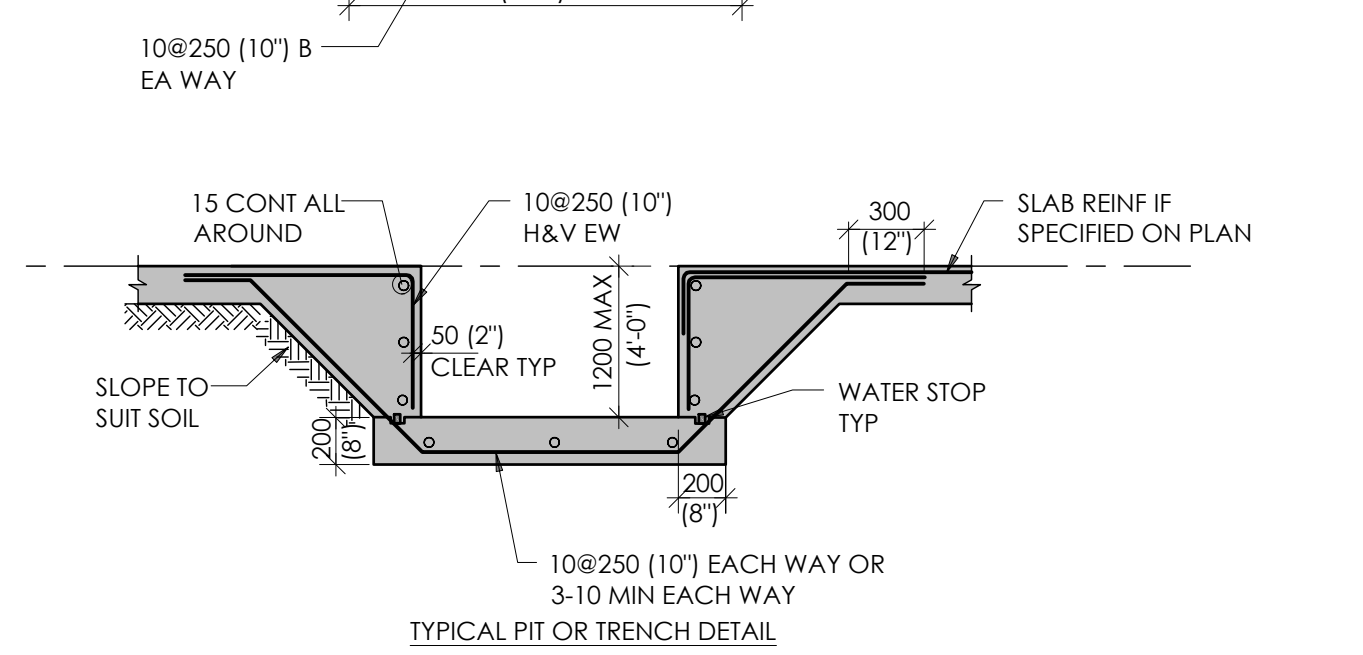
S010



NOTES:

1. PROVIDE INTERNAL OR EXTERNAL WATERSTOP FOR WALL RETAINING SOIL AND INTERNAL WATERSTOP FOR WALLS.
2. PROVIDE 20x20 (3/4" x 3/4") REGLET IN WALLS EXPOSED TO VIEW, WHERE WALLS ARE DESIGNATED ARCHITECTURAL EXPOSED CONCRETE. REFER TO ARCH. DRAWINGS FOR REGLET DETAILS.
3. TIE WATERSTOP TO REINFORCEMENT AS REQUIRED TO ENSURE WATERSTOP IS NOT DISPLACED DURING CONCRETING.
4. STOP EVERY OTHER HORIZONTAL BAR 75mm (3") BACK FROM JOINT EACH SIDE, EXCEPT CONTINUOUS TOP AND BOTTOM REINFORCEMENT, TYPICAL.
5. MAXIMUM SPACING OF VERTICAL CONTROL JOINTS SHALL BE 4500mm (15'-0") U/N. REFER TO PLAN FOR LOCATION.
6. DO NOT PROVIDE VERTICAL JOINTS IN WALLS WHICH SPAN HORIZONTALLY.
7. FOR WALLS SUPPORTED ON CAISSONS OR PIER FOOTING, CONSTRUCTION JOINTS ARE TO BE PLACED AT MIDSPAN OF WALL.
8. JOINTS ARE TO BE LOCATED MINIMUM OF 1200mm (4'-0") FROM ANY PENETRATION OR OPENING THROUGH THE WALL.

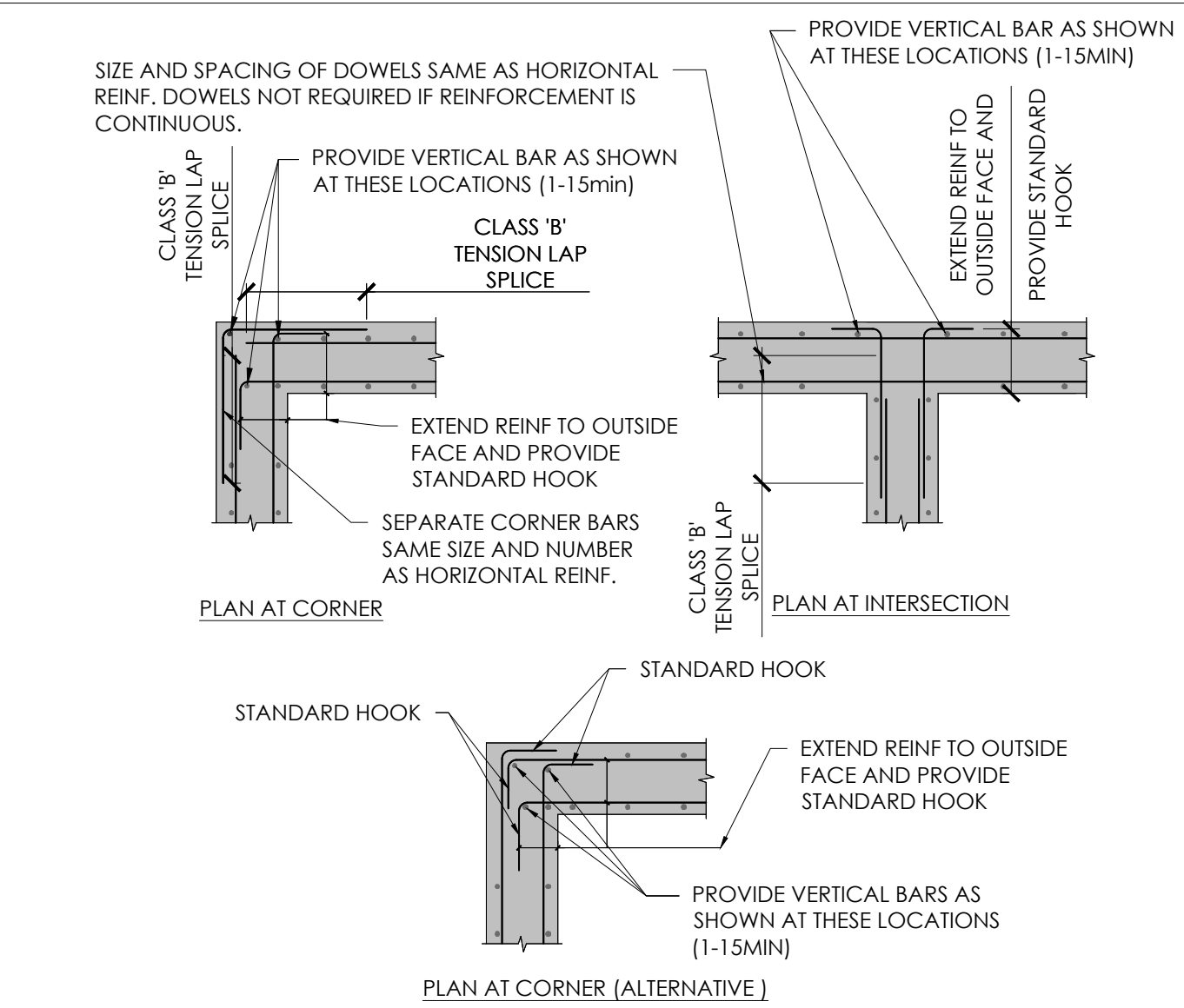
CW1	VERTICAL JOINTS IN CONCRETE WALLS
-----	-----------------------------------



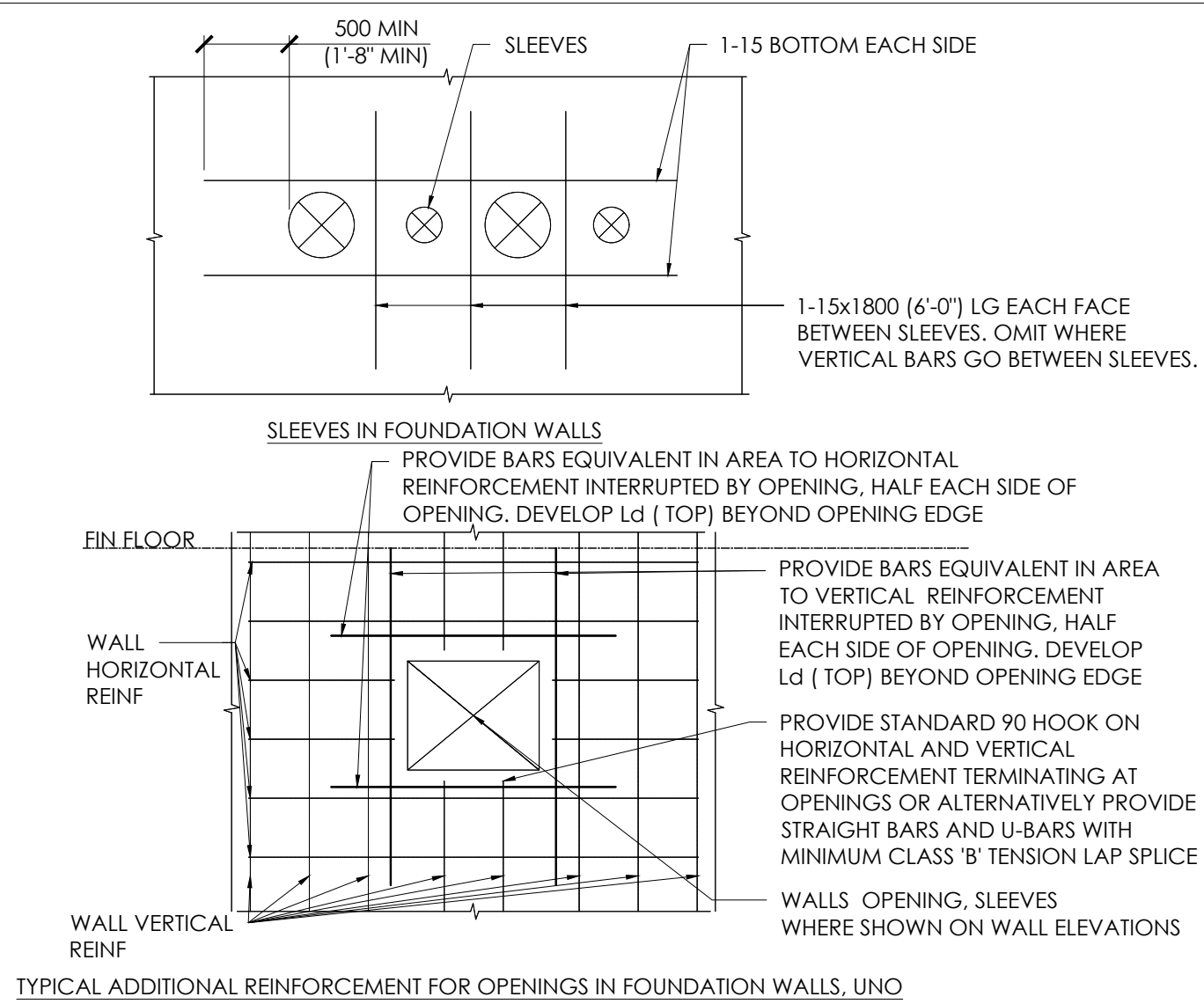
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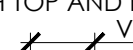
1. THE USE OF PRECAST PIS IS ACCEPTABLE PROVIDED THEY ARE SUPPLIED WITH A CONCRETE BASE AND ARE DESIGNED TO RESIST LOADS IDENTIFIED IN THE DESIGN NOTES.
2. PROVIDE RECESS OR CAST IN ANGLES TO RECEIVE GRATING OR PIT COVER AS PER ARCHITECTURAL DRAWINGS, TYPICAL.

PT1	PITS AND TRENCHES
-----	-------------------



CW2	REINFORCEMENT DETAILS IN CONCRETE FOUNDATION WALLS
-----	--



PRE-CAST CONCRETE LINTELS									
CLEAR SPAN	WALL THICKNESS						NOTES		
	90 (4")	140 (6")	190 (8")	240 (10")	290 (12")				
UP TO 1200(4'-0")	190 (8")	1-10	190 (8")	2-10	190 (8")	2-10	190 (8")	2-10	<div>1. PROVIDE REINF LISTED BOTH TOP AND BOTTOM</div> <div></div>
> 1200 TO 1800 (> 4'-0" TO 6'-0")	190 (8")	1-10	190 (8")	2-10	190 (8")	2-10	190 (8")	2-10	
> 1800 TO 2400 (> 6'-0" TO 8'-0")	-	-	190 (8")	2-10	190 (8")	2-15	190 (8")	2-15	
> 2400 TO 3000 (> 8'-0" TO 10'-0")	-	-	390 (12")	2-10	390 (12")	2-10	390 (12")	2-10	

MASONRY LINTELS											NOTES
CLEAR SPAN	TOP AND BOTTOM REINFORCEMENT										
	90 (4")		140 (6")		190 (8")		240 (10")		290 (12")		
	h	As	h	As	h	As	h	As	h	As	
UP TO 1200 (4'-0")	$\frac{390}{16\frac{1}{2}}$	1-10	$\frac{390}{16\frac{1}{2}}$	1-10	$\frac{390}{16\frac{1}{2}}$	1-10	$\frac{390}{16\frac{1}{2}}$	1-10	$\frac{390}{16\frac{1}{2}}$	1-10	
> 1200 TO 1800 (4'-0" TO 6'-0")	$\frac{390}{16\frac{1}{2}}$	1-10	$\frac{390}{16\frac{1}{2}}$	1-10	$\frac{390}{16\frac{1}{2}}$	1-10	$\frac{390}{16\frac{1}{2}}$	1-10	$\frac{390}{16\frac{1}{2}}$	1-10	
> 1800 TO 2400 (6'-0" TO 8'-0")	$\frac{390}{16\frac{1}{2}}$	1-10	$\frac{390}{16\frac{1}{2}}$	1-10	$\frac{390}{16\frac{1}{2}}$	1-10	$\frac{390}{16\frac{1}{2}}$	1-10	$\frac{390}{16\frac{1}{2}}$	1-15	
> 2400 TO 3000 (8'-0" TO 10'-0")	-	-	$\frac{390}{16\frac{1}{2}}$	1-10	$\frac{390}{16\frac{1}{2}}$	1-15	$\frac{390}{16\frac{1}{2}}$	1-15	$\frac{390}{16\frac{1}{2}}$	1-15	

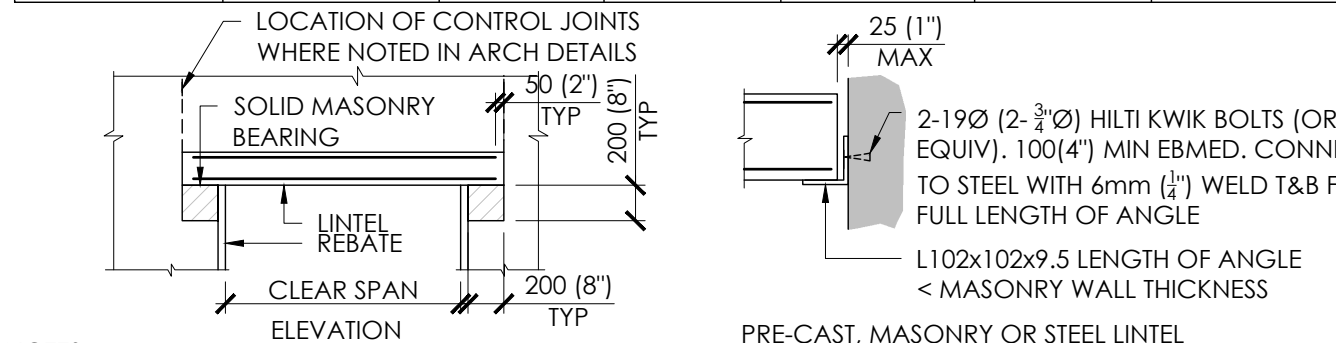
1. PROVIDE REINF LISTED BOTH TOP AND BOTTOM.

2. PROVIDE LINTEL BLOCK (2" H OR 1-390 H).

3. GROUT IS TO BE CONTINUOUS ALONG SPAN OF LINTEL

SECTION

STEEL LINTELS						
CLEAR SPAN	WALL THICKNESS					NOTES
	90 (4") VENEER	140 (6")	190 (8")	240 (10")	290 (12")	
UP TO 1200 (4'-0")	1-L102x76x6.4 LH	2-L64x64x6.4	2-L89x76x6.4	1-L127x76x6.4+ 1-L127x76x6.4 LSH	3-L89x76x6.4 LSH	 SAWCUT OF BLOCK VENEER NECESSARY
> 1200 TO 1800 (4'-0" TO 6'-0")	1-L102x76x6.4 LH	2-L64x64x6.4	2-L89x89x6.4	1-L127x76x6.4+ 1-L127x76x6.4	3-L89x89x6.4	
> 1800 TO 2400 (6'-0" TO 8'-0")	1-L102x102x6.4	2-L89x64x6.4	2-L89x89x6.4	1-L102x102x7.9+ 1-L127x76x7.9	3-L89x89x6.4	
> 2400 TO 3000 (8'-0" TO 10'-0")	1-L152x102x7.9	-	2-L127x89x6.4	1-L102x102x7.9+ 2-L127x79x7.9	3-L127x89x6.4	
DETAIL	L	64 LEGS HORZ	89 LEGS HORZ	102 & 127 LEGS HORZ	L	90 VENEER LINE



NOTES:

1. REFER TO ARCH DWGS FOR THICKNESS AND EXTENT OF NON-LOAD BEARING MASONRY WALLS.
2. REFER TO ARCH DWGS FOR LOCATION AND TYPE OF LINTELS REQUIRED.
3. INCLUDE REBATES ADJACENT TO OPENING WHEN DETERMINING CLEAR SPAN OF LINTELS.
4. BOLT DOUBLE ANGLES BACK TO BACK USING 1608 BOLTS @450 (18") c/c OR PROVIDE 6x50 ($\frac{1}{2}$ "x2") LONG WELDS @450 (18") c/c TOP AND BOTTOM. DISTANCE FROM END OF LINTEL TO FIRST BOLT OR WELD SHOULD NOT EXCEED 100mm (4").
5. 90 VENEER MUST BE SOLID BRICK OR BLOCK FOR SINGLE ANGLE LINTEL.

LT8	LINTELS FOR NON-LOAD BEARING MASONRY WALLS
-----	--

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YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GWILLIMBURY

Key Plan

[illegible]

Issues

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Scale:



Sheet Title:

TYPICAL DETAILS

Drawing No.

S011

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GWILLIMBURY

Key Plan

[illegible]

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Scale:

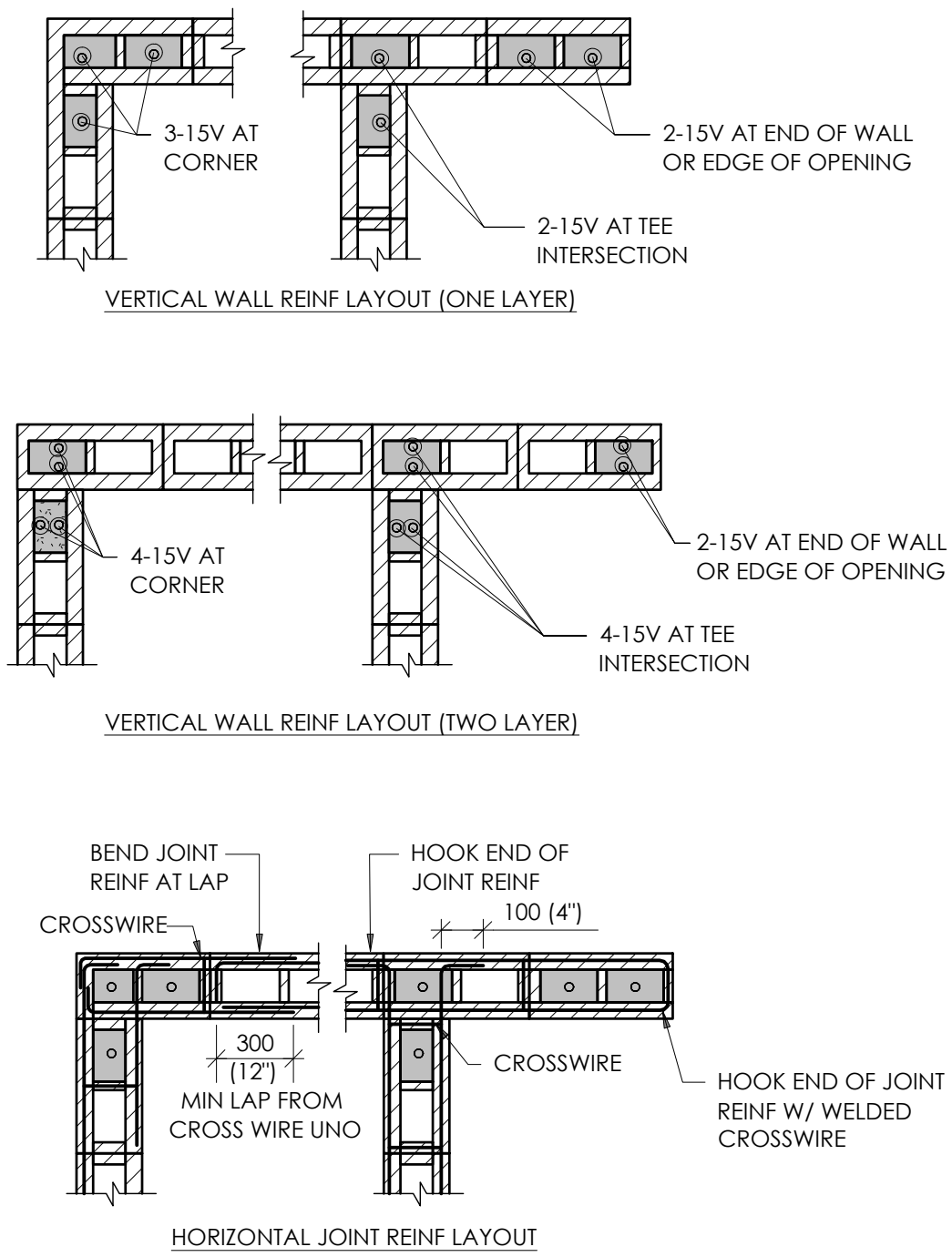


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TYPICAL DETAILS

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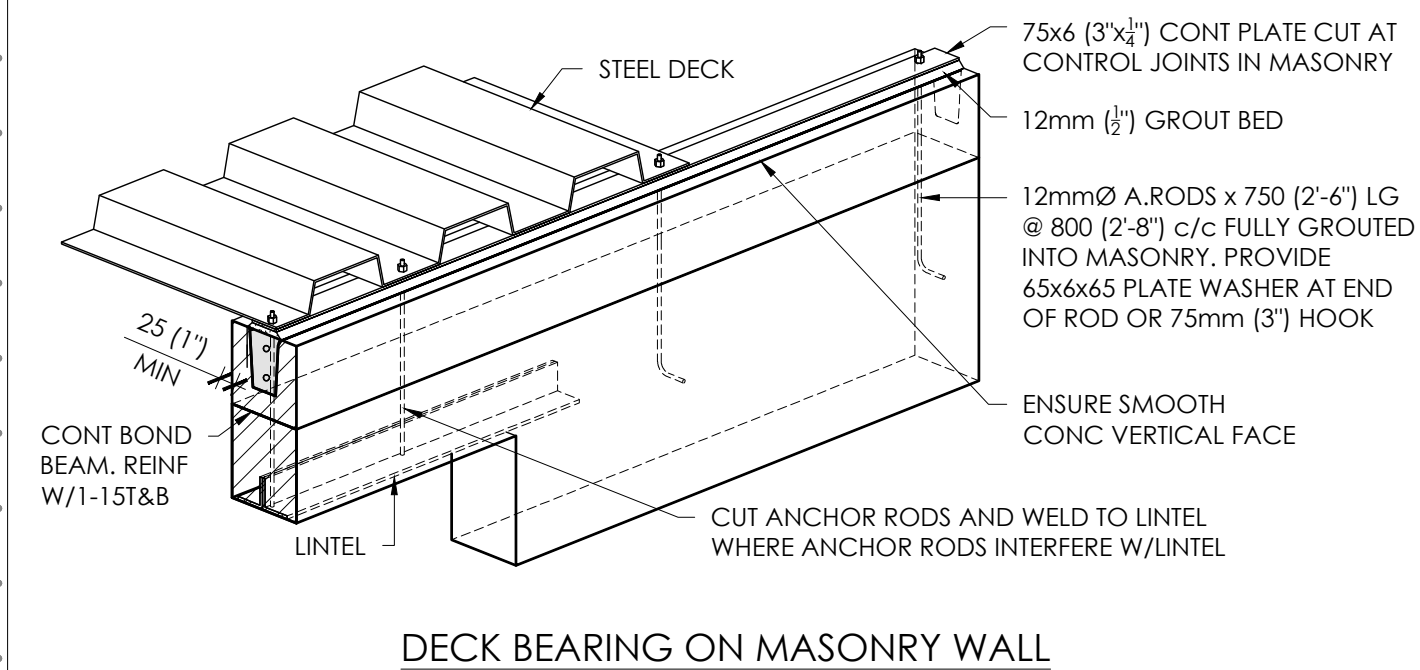
S012



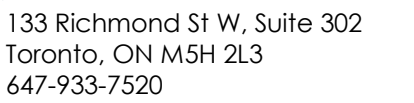
NOTES:

1. AT INTERSECTIONS, BOND WALLS TOGETHER BY INTERLOCKING ALTERNATE COURSES (RUNNING BOND), UNLESS NOTED OTHERWISE.
2. FOR ADDITIONAL REINFORCEMENT AT OPENINGS, REFER TO TYPICAL DETAIL M15.
3. WHERE HORIZONTAL REINFORCING BARS ARE SPECIFIED, PROVIDE CLASS 'B' TENSION LAP SPLICE AT CORNERS AND WALL INTERSECTIONS.

CW3	REINFORCEMENT FOR MASONRY WALLS
-----	---------------------------------



SD3	STEEL DECK AT ROOF (MASONRY FRAMING)
-----	--------------------------------------



350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

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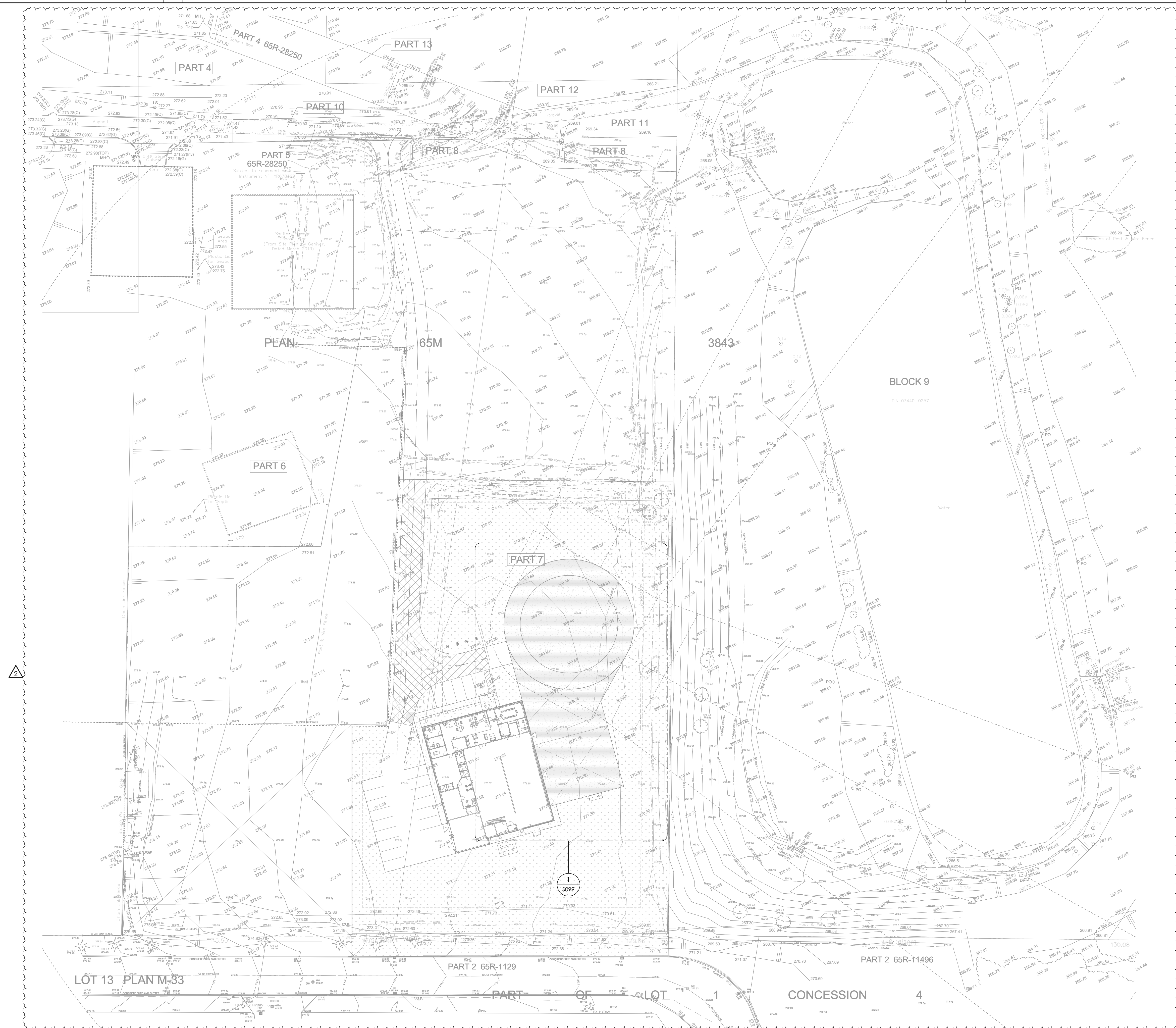
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Project No: 24.065
Scale: 1 : 500



OVERALL SITE PLAN

S098



1 OVERALL SITE PLAN
5098
1 : 500

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

[illegible]

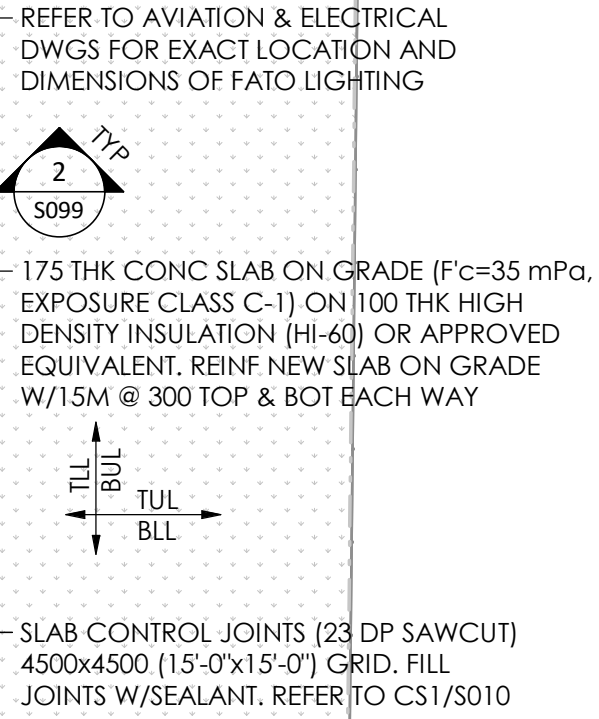
All measurements are to be checked and verified on site by the contractor before proceeding with work

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Project No: 24.065
Scale: As indicated



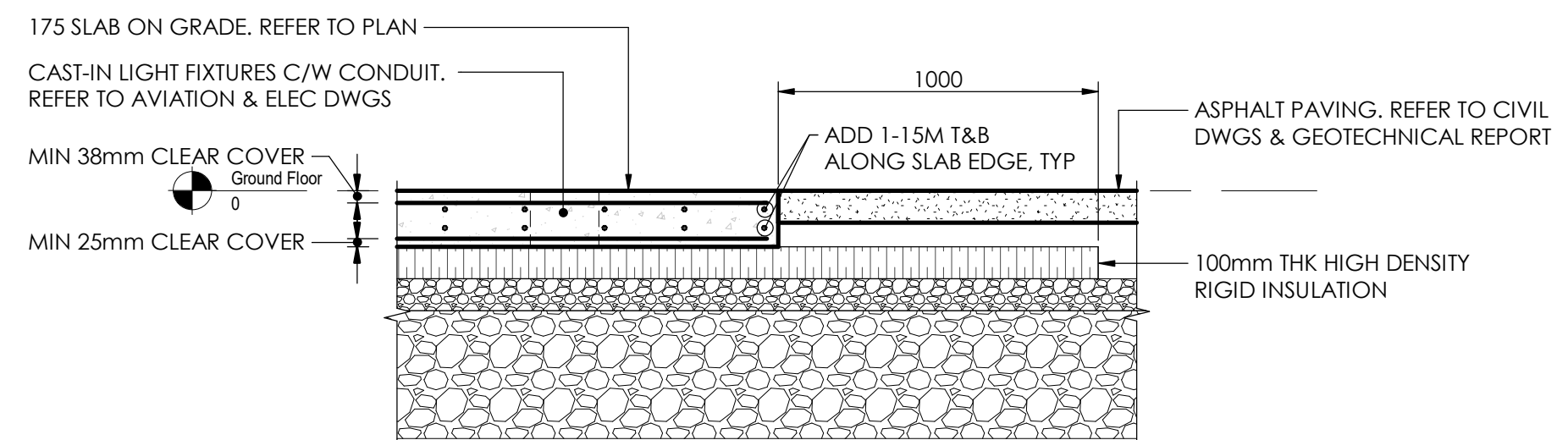
ENLARGED SITE PLAN

S099

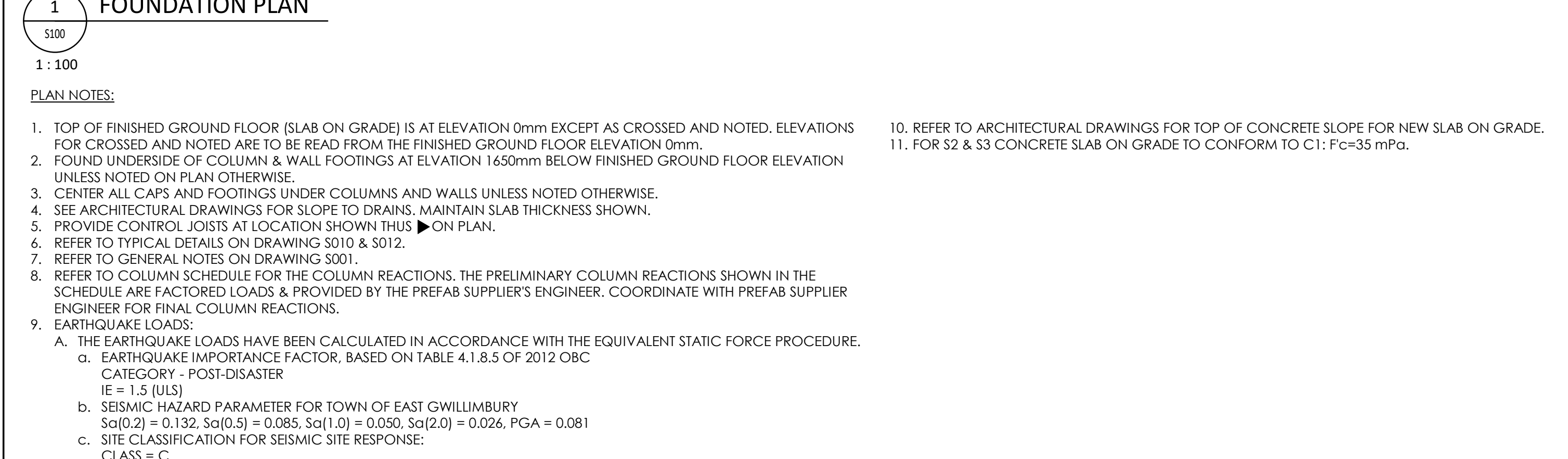


1 SITE PLAN
5099
1 : 200

1. REFER TO ARCHITECTURAL DRAWINGS FOR TOP OF CONCRETE SLOPE FOR NEW SLAB ON GRADE.
2. COORDINATE SLAB REINFORCEMENT WITH IN-SLAB HEATING IF/AS REQUIRED WITH THE MEP DRAWINGS.



2
S099
1 : 20




COLUMN SCHEDULE				
COLUMN ID	V MAX (kN)	V MIN (kN)	H MAX (kN)	H MIN (kN)
A-1	29.5	-5.7	1.5	-2.0
A-2	38.6	-4.3	1.6	-2.1
B-2	11.1	-4.1	2.4	-3.1
B-3	98.0	-36.0	46.0	-10.6
B-4	98.0	-36.0	46.0	-10.6
B-5	61.8	-23.7	30.2	-3.7
B/C-5	1.7	-1.1	6.9	-9.8
C-1	64.7	-4.6	4	-3.5
C-2	117.3	-13.1	9.1	-12.8
D-1	64.7	-4.6	4	-3.5
D-2	120.0	-14.0	10.0	-14.0
D/E-5	1.7	-1.1	6.9	-9.8
E-1	61.9	-7.0	3.9	-4.1
E-2	196.3	-15.9	4.3	-5.5
E-3	177.1	-38.1	12.0	-44.7
E-4	177.1	-38.1	12.0	-44.7
E-5	108.5	-10.2	29.3	-29.6
F-1	61.9	-7.0	3.9	4.1
F-2	66.8	-5.7	3.5	-3.6
F-3	55.6	-2.3	2.9	-3.0
F-4	55.6	-2.3	2.9	-3.0
F-5	30.8	-2.5	1.6	-1.7


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350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan



TRUE NORTH



PROJECT NORTH

5	Issued for Tender Addendum 14	2024.11.27
4	Issued for Tender Addendum 2	2024.09.18
3	Issued for Tender Addendum 1	2024.09.16
2	Issued for Tender	2024.09.09
1	Issued for Permit	2024.07.30
NO.	ISSUED	DATE

Sheet
Title: FOUNDATION
PLAN

Drawing
No. S100

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350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key Plan

[illegible]

5	Issued for Tender Addendum 14	2024.11.27
4	Issued for Tender Addendum 2	2024.09.18
3	Issued for Tender Addendum 1	2024.09.16
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NO.	ISSUED	DATE

Issue

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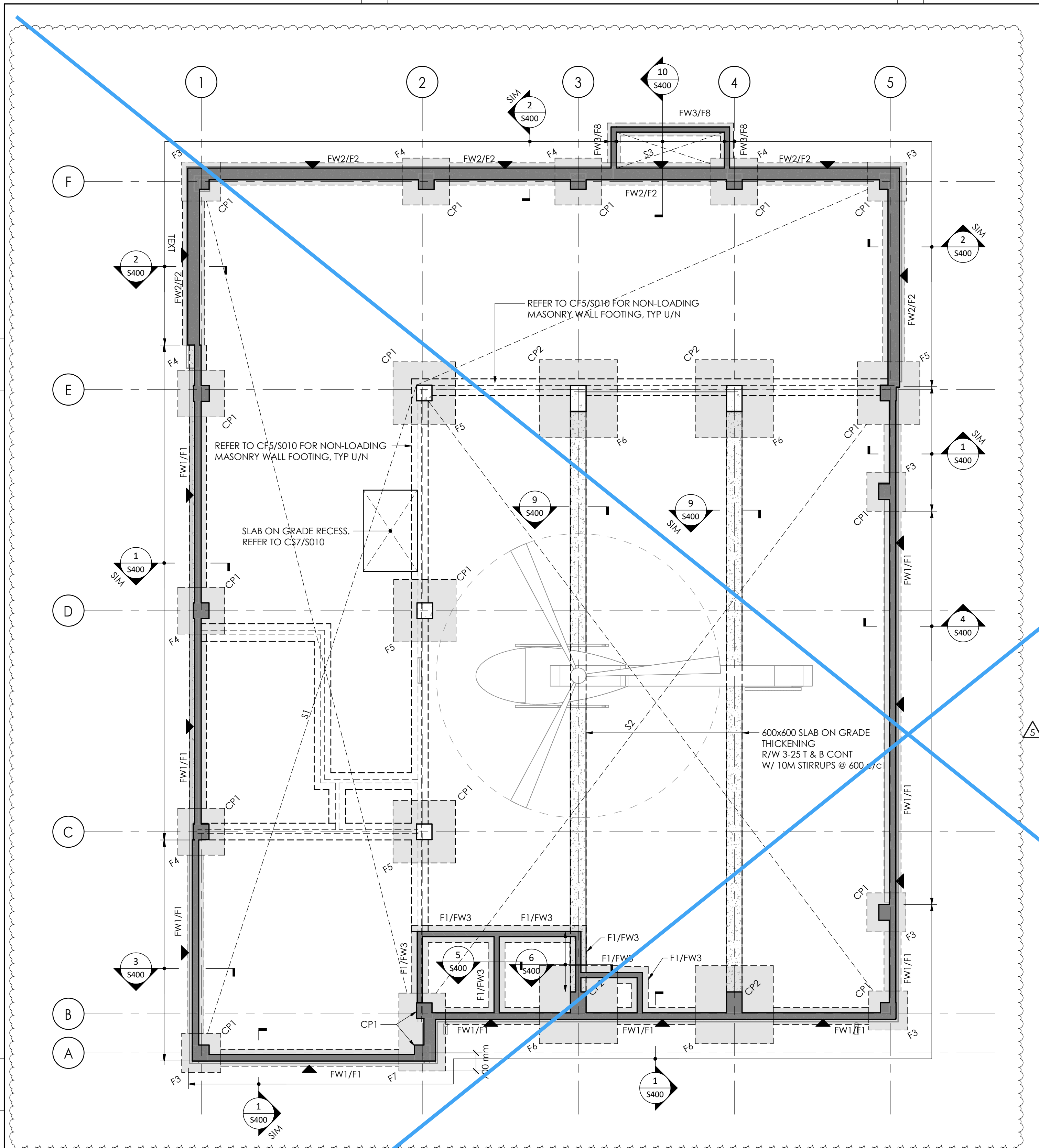


Sheet
Title:

FOUNDATION PLAN

Drawing
No.


S100



1 FOUNDATION PLAN

1 : 100

PLAN NOTES:

1. TOP OF FINISHED GROUND FLOOR (SLAB ON GRADE) IS AT ELEVATION 0mm EXCEPT AS CROSSED AND NOTED. ELEVATIONS FOR CREDS AND NOTED ARE TO BE READ FROM THE FINISHED GROUND FLOOR ELEVATION 0mm.
2. FOUND UNDERSIDE OF COLUMN & WALL FOOTINGS AT ELEVATION 1650mm BELOW FINISHED GROUND FLOOR ELEVATION UNLESS NOTED ON PLAN OTHERWISE.
3. CENTER ALL CAPS AND FOOTINGS UNDER COLUMNS AND WALLS UNLESS NOTED OTHERWISE.
4. SEE ARCHITECTURAL DRAWINGS FOR SLOPE TO DRAINS. MAINTAIN SLAB THICKNESS SHOWN.
5. PROVIDE CONTROL JOISTS AT LOCATION SHOWN THUS:  ON PLAN.
6. REFER TO TYPICAL DETAILS ON DRAWING S010 & S012.
7. REFER TO GENERAL NOTES ON DRAWING S001.
8. REFER TO COLUMN SCHEDULE FOR THE COLUMN REACTIONS. THE PRELIMINARY COLUMN REACTIONS SHOWN IN THE SCHEDULE ARE FACTORED LOADS & PROVIDED BY THE PREFAB SUPPLIER'S ENGINEER. COORDINATE WITH PREFAB SUPPLIER ENGINEER FOR FINAL COLUMN REACTIONS.
9. EARTHQUAKE LOADS:
 - A. THE EARTHQUAKE LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH THE EQUIVALENT STATIC FORCE PROCEDURE.
 - a. EARTHQUAKE IMPORTANCE FACTOR, BASED ON TABLE 4.1.8.5 OF 2012 OBC
CATEGORY - POST-DISASTER
IE = 1.5 (ULS)
 - b. SEISMIC HAZARD PARAMETER FOR TOWN OF EAST GWILLIMBURY
 $S_a(0.2) = 0.132$, $S_a(0.5) = 0.085$, $S_a(1.0) = 0.050$, $S_a(2.0) = 0.026$, $PGA = 0.081$
 - c. SITE CLASSIFICATION FOR SEISMIC SITE RESPONSE:
CLASS = C
10. REFER TO ARCHITECTURAL DRAWINGS FOR TOP OF CONCRETE SLOPE FOR NEW SLAB ON GRADE.
11. FOR S2 & S3 CONCRETE SLAB ON GRADE TO CONFORM TO C1: $F_c = 35 \text{ MPa}$.

FOUNDATION SCHEDULE			
TAG	MEMBER SIZE	REINFORCEMENT	COMMENTS
F1	650mm x 250mm DP CONIC FOOTING	3-15M CONT BUL IN LONG DIRECTION. 15M @ 400 c/c BLL IN SHORT DIRECTION	LAP HORIZ BARS AT CORNERS & INTERSECTION
F2	850mm x 250mm DP CONIC FOOTING	4-15M CONT BUL IN LONG DIRECTION. 15M @ 400 c/c BLL IN SHORT DIRECTION	LAP HORIZ BARS AT CORNERS & INTERSECTION
F3	1500mm x 1500mm x 450mm DP CONIC FOOTING	6-15 BEW (HH)	
F4	1800mm x 1800mm x 450mm DP CONIC FOOTING	8-15 BEW (HH)	
F5	2400mm x 2400mm x 450mm DP CONIC FOOTING	12-15 BEW (HH)	
F6	3000mm x 3000mm x 600mm DP CONIC FOOTING	15-15 BEW (HH)	
F7	1800mm W x 3000mm L x 450mm DP CONIC FOOTING	12-15M CONT BUL IN SHORT DIRECTION (HH). 6-15M CONT BLL IN LONG DIRECTION (HH)	
F8	500mm x 200mm DP CONIC FOOTING	2-15M CONT	
FW1	250mm CONCRETE FOUNDATION WALL	15M @ 300 c/c VERT & HORIZ EACH FACE. PROVIDE 4-15 VERT AT WALL INTERSECTION & CORNERS	LAP HORIZ BARS AT CORNERS & INTERSECTION
FW2	450mm CONCRETE FOUNDATION WALL	15M @ 300 c/c VERT & HORIZ EACH FACE. PROVIDE 4-15 VERT AT WALL INTERSECTION & CORNERS ALSO REFER TO 3/5200	LAP HORIZ BARS AT CORNERS & INTERSECTION
FW3	200mm CONCRETE WALL	15M @ 400 c/c VERT & HORIZ EACH FACE. PROVIDE 4-15 VERT AT WALL INTERSECTION & CORNERS	
MW1	140 (6") MASONRY WALL	15M @ 400 VERT IN FULLY GROUTED CELL. PROVIDE MATCHING DOWELS x 1200 LG. EXTEND FROM CONC WALL BELOW. REFER TO CW3/2011	PROVIDE CONT 390mm DP BOND BEAM (R/W 1-5M L&B) AT TOP OF MASONRY WALL
MW2	190 (8") MASONRY WALL	15M @ 400 VERT IN FULLY GROUTED CELL. PROVIDE MATCHING DOWELS x 1200 LG. EXTEND FROM CONC WALL BELOW. REFER TO CW3/2011	PROVIDE CONT 390mm DP BOND BEAM (R/W 1-5M L&B) AT TOP OF MASONRY WALL
CP1	600mm x 600mm CONCRETE CAP	12-20 W/3-10M TIES @ 75 c/c AT TOP & 10M TIES @ 300 IN REMAINING	REFER TO ARCH DWGS FOR RIGID INSULATION
CP2	400mm W x 1000mm L CONCRETE CAP	12-20 W/3-10M TIES @ 75 c/c AT TOP & 10M TIES @ 300 IN REMAINING	REFER TO ARCH DWGS FOR RIGID INSULATION
S1	125 SLAB ON GRADE ATOP 75mm THK RIGID INSULATION	R/W 1 LAYER OF 152152 MW18 x 7 mm @ 18" W/W	REFER TO ARCH DWGS FOR RIGID INSULATION
S2	175 SLAB ON GRADE ATOP 75mm THK RIGID INSULATION	R/W 2 LAYER OF 152152 MW18 x 7 mm @ 18" W/W	REFER TO ARCH DWGS FOR RIGID INSULATION
S3	200 SLAB ON GRADE ON VOID FORM	R/W 15M @ 250 TOP & BOT EACH WAY	REFER TO ARCH DWGS FOR RIGID INSULATION

COLUMN SCHEDULE				
COLUMN ID	V MAX (kN)	V MIN (kN)	H MAX (kN)	H MIN (kN)
A-1	29.5	-5.7	1.5	-2.0
A-2	38.6	-4.3	1.6	-2.1
B-2	11.1	-4.1	2.4	-3.1
B-3	98.0	-36.0	46.0	-10.6
B-4	98.0	-36.0	46.0	-10.6
B-5	61.8	-23.7	30.2	-3.7
B/C-5	1.7	-1.1	6.9	-9.8
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E-2	196.5	-15.9	4.3	-5.5
E-3	177.1	-38.1	12.0	-44.7
E-4	177.1	-38.1	12.0	-44.7
E-5	108.5	-10.2	29.3	-29.6
F-1	61.9	-7.0	3.9	4.1
F-2	66.8	-5.7	3.5	-3.6
F-3	55.6	-2.3	2.9	-3.0
F-4	55.6	-2.3	2.9	-3.0
F-5	30.8	-2.5	1.6	-1.7

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

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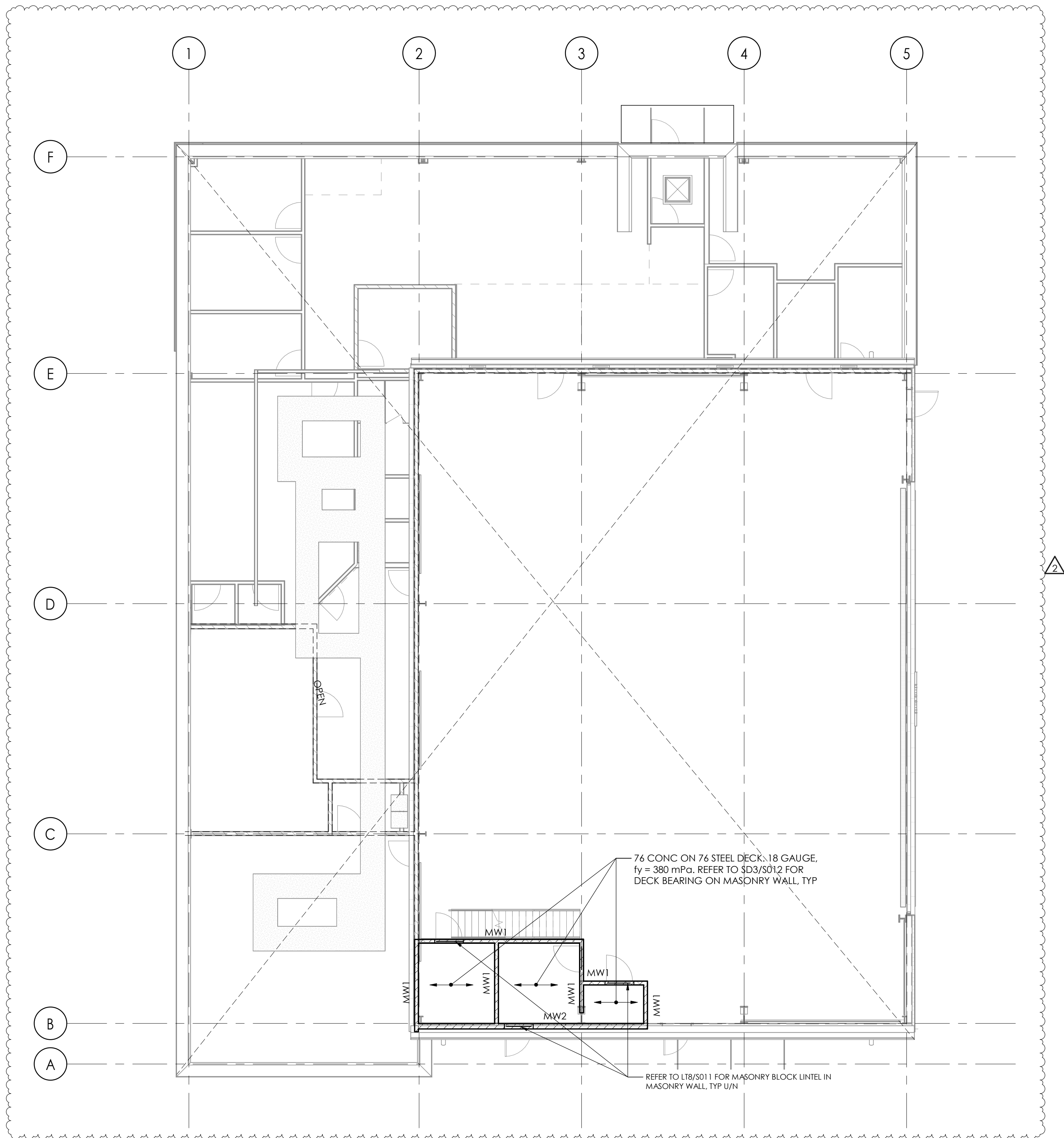
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Scale: 1 : 100



MEZZANINE FLOOR PLAN

S200



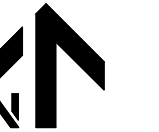
1 MEZZANINE FLOOR PLAN
S200
1 : 100

1. **ALL FRAMING SHOWN IS LOOKING DOWN.**
2. **REFER TO ARCHITECTURAL DRAWINGS FOR THE TIP OF MEZZANINE FLOOR STRUCTURAL SLAB ELEVATION.**
3. **THE UNFACTORED DESIGN LOAD FOR THE MEZZANINE FLOOR ARE:**
 - A. **LIVE LOAD = 3.6 kPa**
 - B. **SUPERIMPOSED DEAD LOADS (SDL) = 1.25 kPa**
 - C. **SELF-WEIGHT = 76mm CONCRETE ON 76mm STEEL DECK**
4. **PROVIDE CONTINUOUS 4mm THICK BENT PLATE ALL AROUND PERIMETER.**
5. **ALL STRUCTURAL STEEL & ITS CONNECTION HARDWARES EXPOSED TO WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH CSA G164.**
6. **REFER TO TYPICAL DETAILS ON S010 TO S012.**
7. **REFER TO GENERAL NOTES ON S001.**

YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key Plan

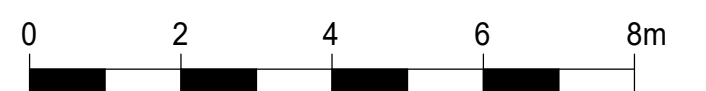
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Issue

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

Drawn by: R.RASALINGAM / S.SHUM
Checked by: W.PETER
Original Issue Date: 2024.10.03
Project No: 24.065
Scale: 1 : 20



Sheet
Title:

SECTIONS

Drawing
No.

S400

