

**FOR TENDER**

No.	Issue / Revision	Date	Auth.
1	ISSUED FOR MOECC ECA	FEB. 2015	
2	ISSUED FOR MTO APPROVAL	AUG. 2015	
3	REVISED AS PER MTO COMMENTS	OCT. 2015	
4	ISSUED FOR 90% REVIEW	OCT. 2015	
5	ISSUED FOR TENDER	DEC. 2015	
6	REVISED AS PER ADDENDUM No.2	JAN. 2016	

**BM#8 ELEV 358.767m**  
TOP OF HYDRANT AT SOUTH/WEST CORNER OF HOUSE #320 ON NORTH SIDE OF HIGHWAY #7 ALMA STREET

**BM#9 ELEV 355.908m**  
SPIKE IN NORTH FACE OF THP # 37-100 ON WEST SIDE OF DW TO EXISTING PRETREATMENT WORKS ON NORTH SIDE OF HIGHWAY #7 ALMA STREET

**BM#10 ELEV 352.910m**  
TOP CUT-CROSS AT EAST SIDE OF CONCRETE GARAGE DOOR SILL ON SOUTH SIDE OF EXISTING PRETREATMENT WORKS

Client: **TOWNSHIP OF GUELPH / ERAMOSA**  
8348 WELLINGTON ROAD 124, P.O. BOX 700  
ROCKWOOD, ON  
N0B 2K0

**BURNSIDE**

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Drawn: J.R.  
Checked: J.L.L.  
Designed: R.C.  
Date: FEB. 2014

Project No: MSA143810.0062  
Contract No: MSA143810.0062

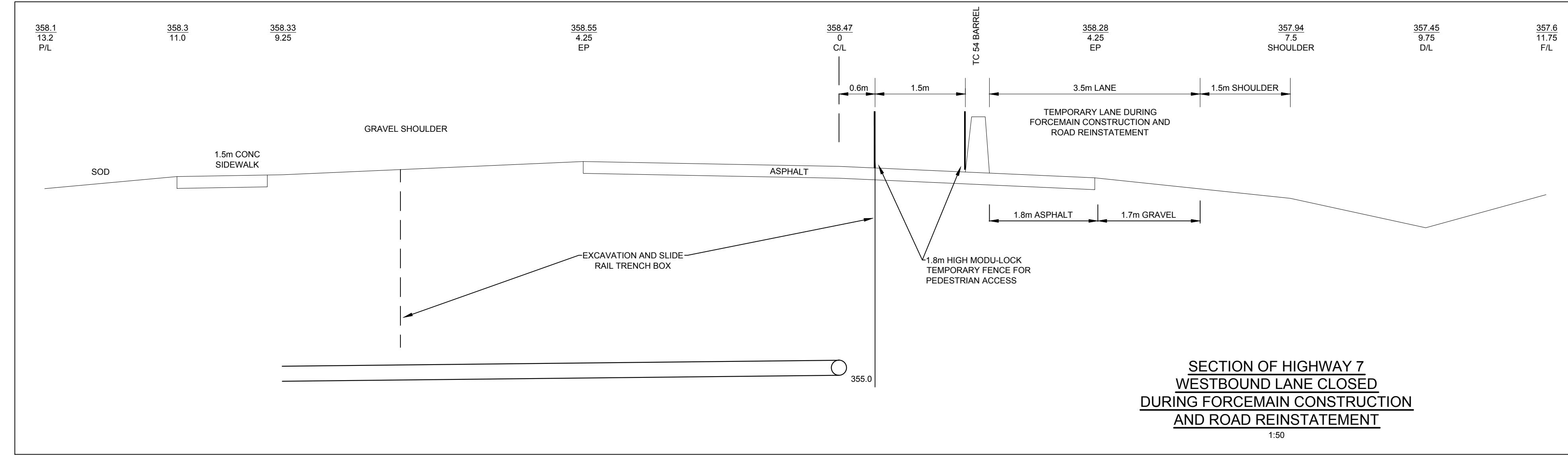
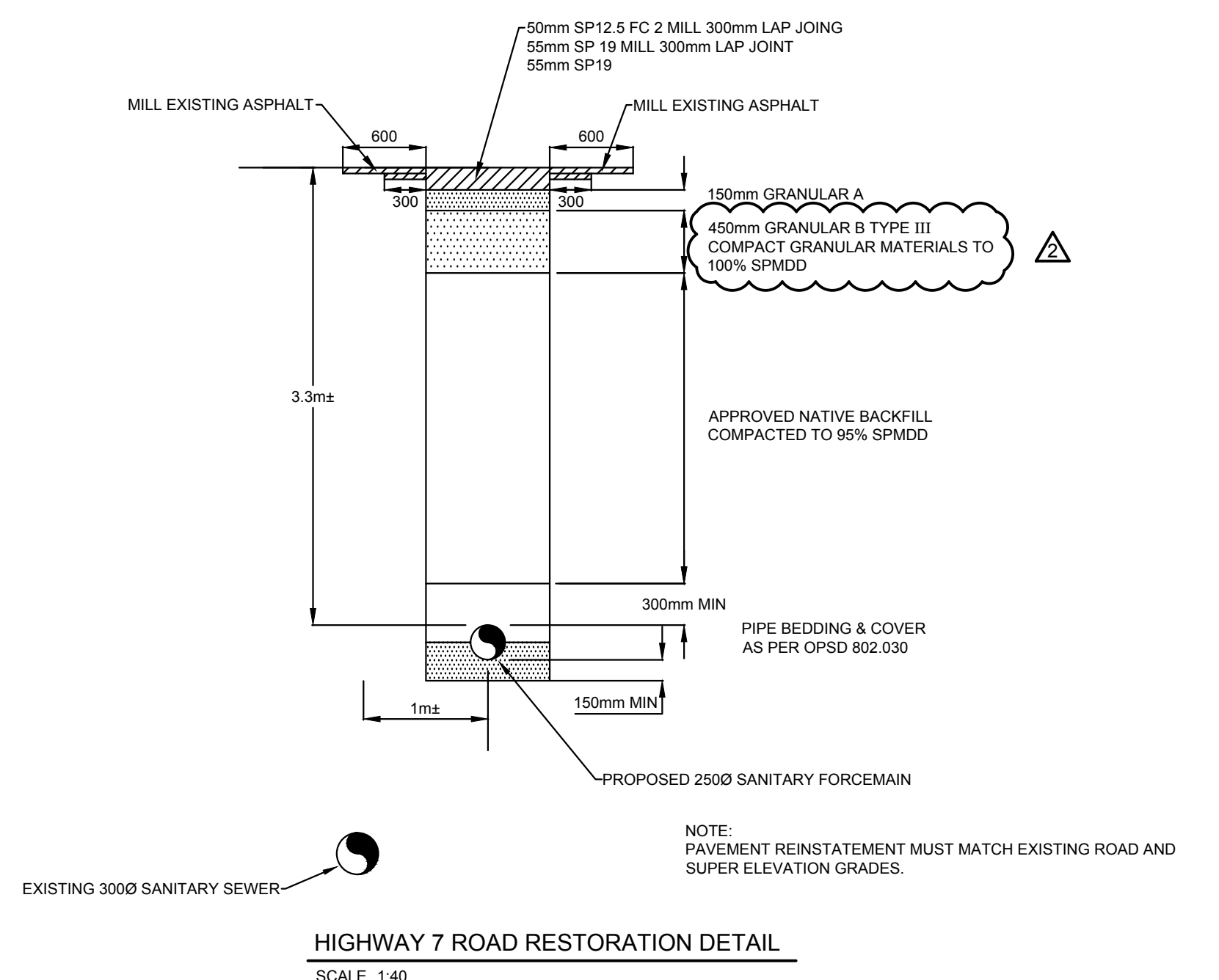
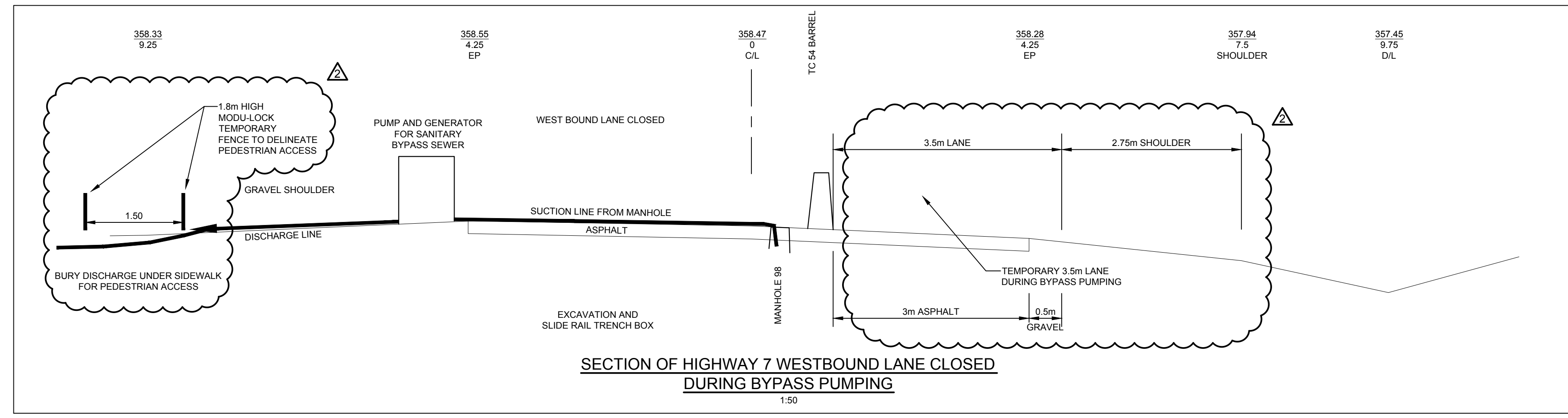
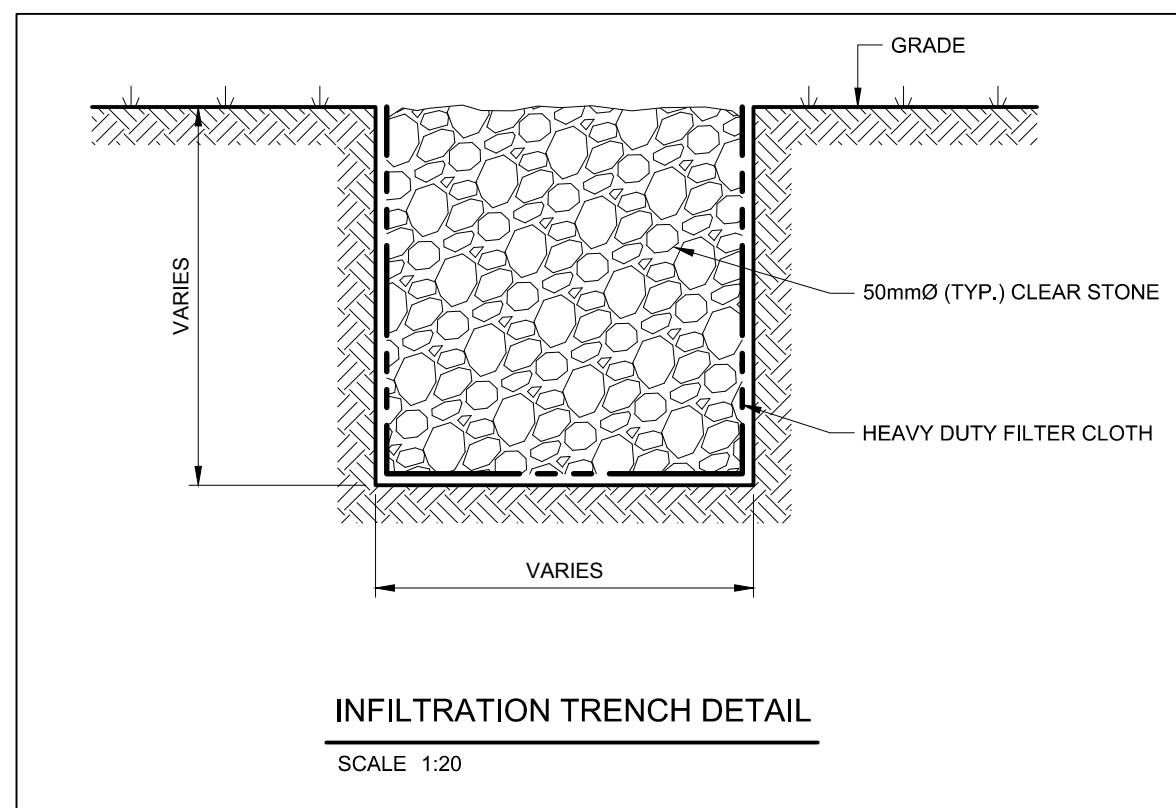
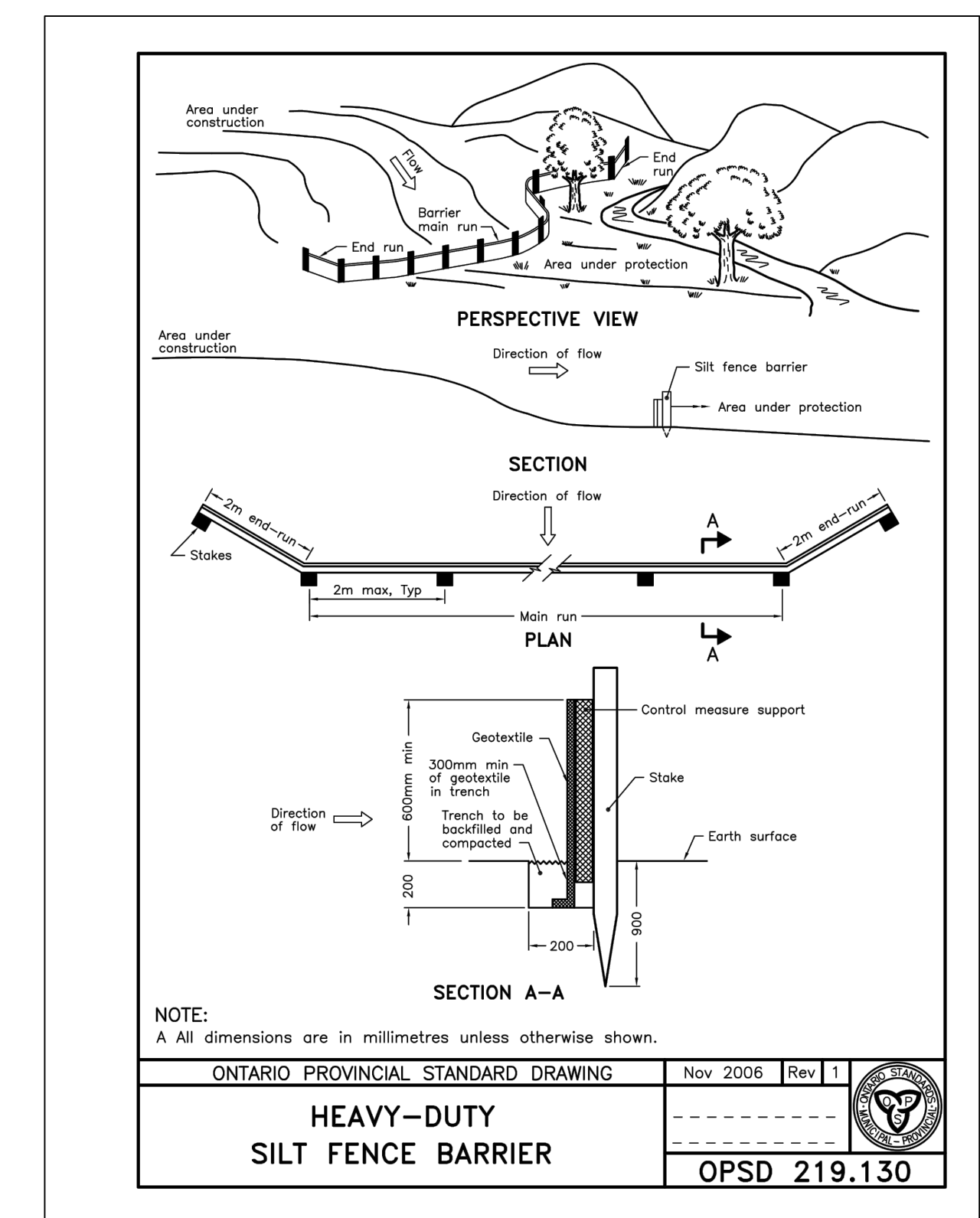
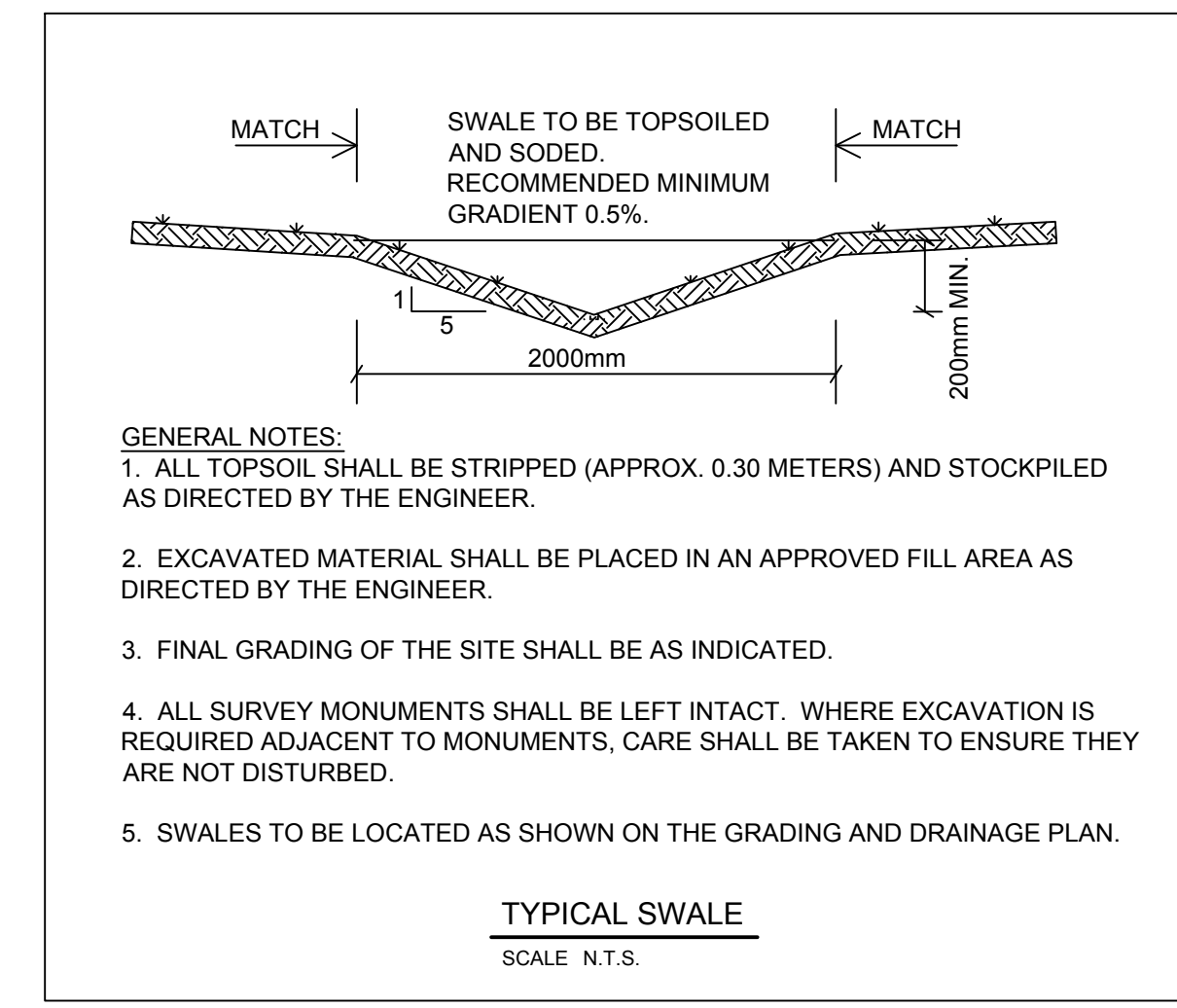
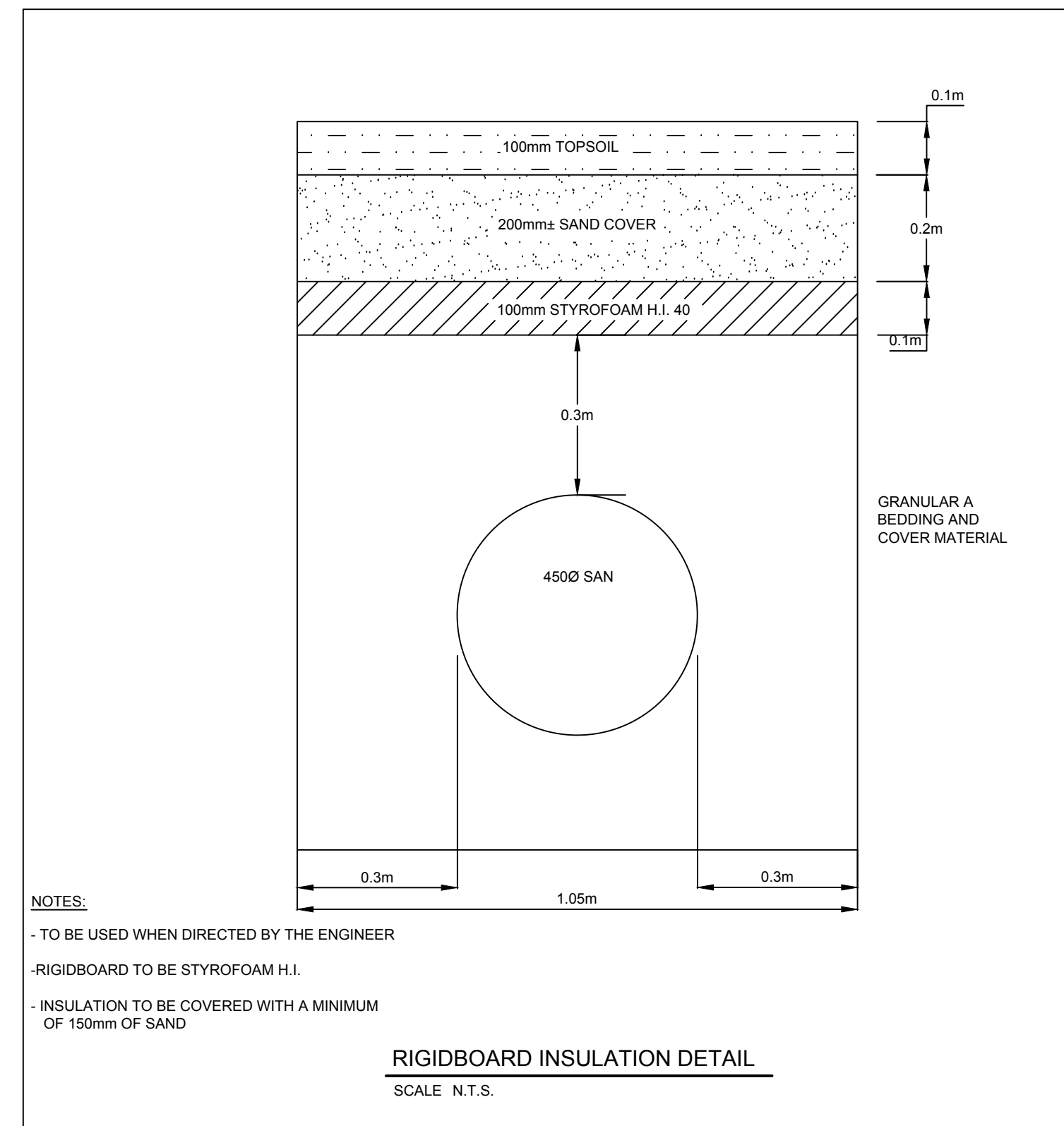
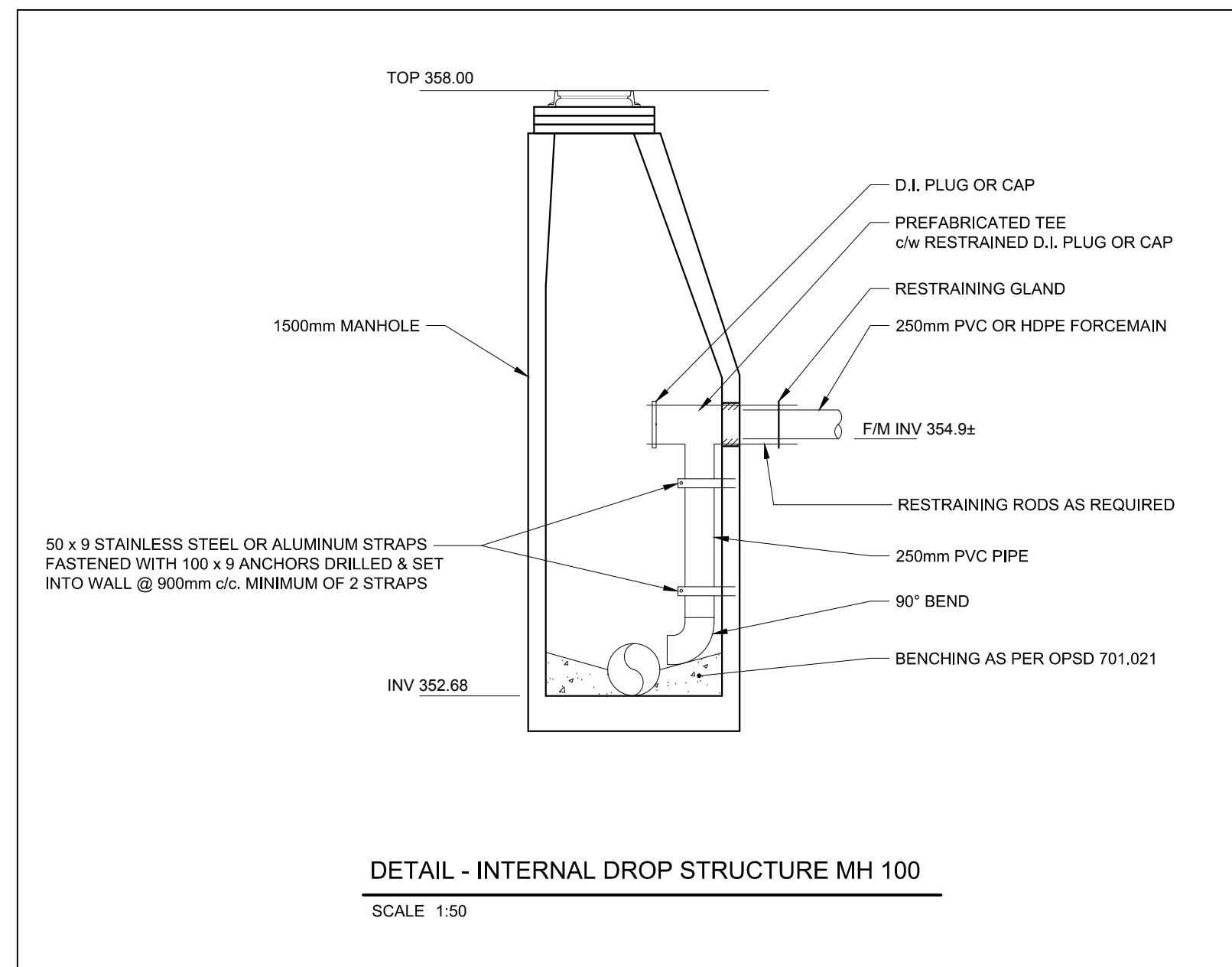
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Drawn Title: **ALMA ST. WASTEWATER PRETREATMENT FACILITY UPGRADES PROPOSED SITE PLAN**

Revision No: 5

Scale: 1:250

**C001**



Notes:  
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1	DETAILS ADDED AS PER MTO COMMENTS	OCT. 2015	
2	ISSUED FOR 90% REVIEW	OCT. 2015	
2	ISSUED FOR TENDER	DEC. 2015	
4	REVISED AS PER MTO COMMENTS	JAN 2016	
5	REVISED AS PER ADDENDUM No. 2	JAN 2016	

TRENCH SHALL CONFORM TO MINISTRY OF LABOUR REGULATIONS IN REGARD TO WORK IN OPEN TRENCHES. CONTRACTOR SHALL USE A TRENCH BOX FOR EXCAVATION WORK ON HIGHWAY No. 7 IN ACCORDANCE WITH MTO ENCROACHMENT PERMIT.

NOTE:  
- SAWCUT EXISTING ASPHALT EDGES PRIOR TO ROAD RESTORATION  
- IF MACADAM PAVEMENT LAYER IS ENCOUNTERED IT SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH CURRENT REGULATIONS.

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Drawing Title:  
**ALMA ST. WASTEWATER PRETREATMENT FACILITY UPGRADES**  
CIVIL DETAILS

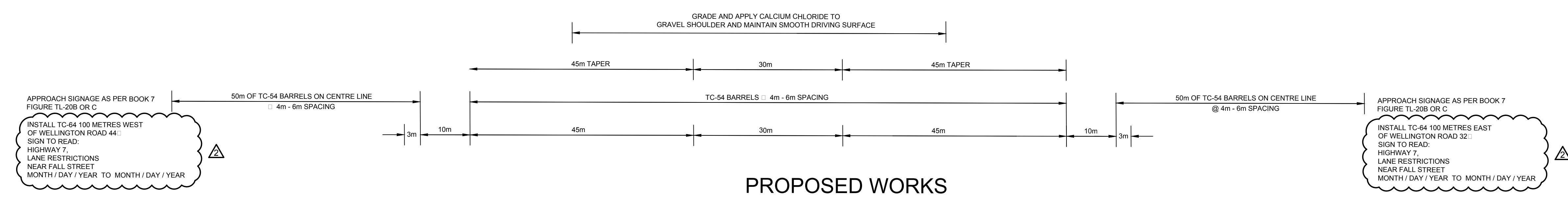
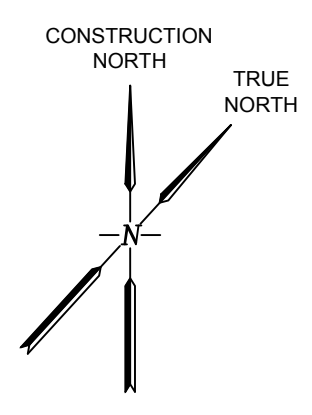
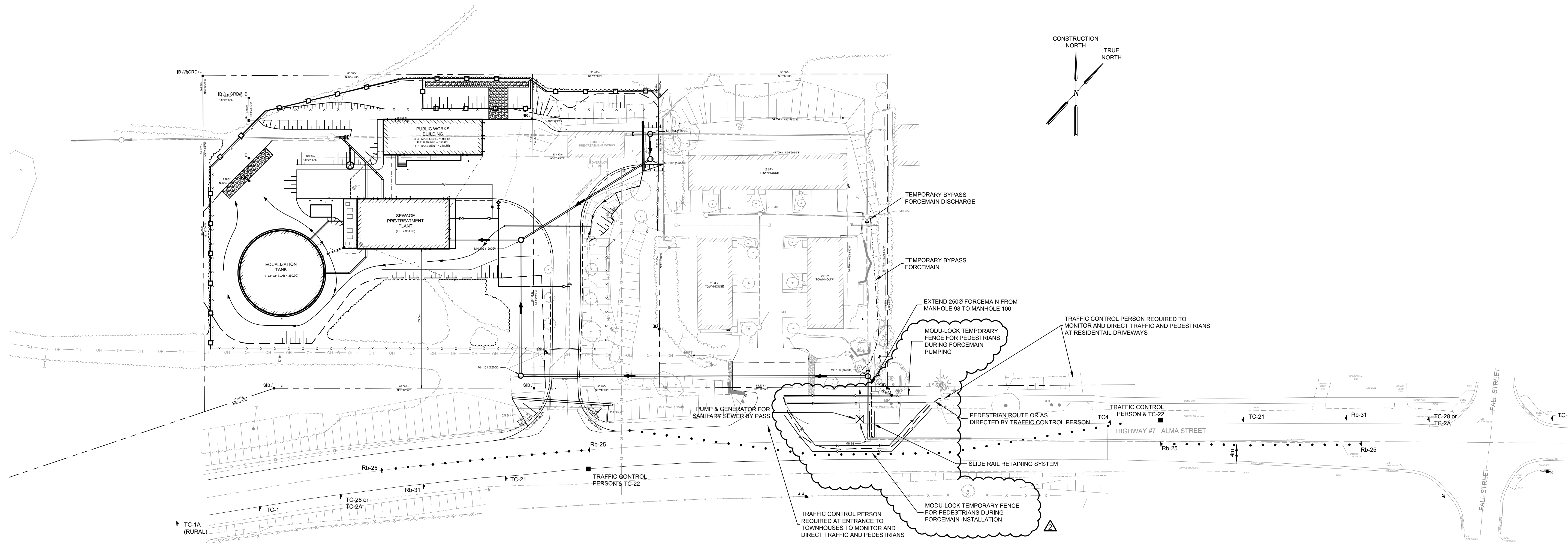
Drawn	Checked	Designed	Checked	Date	Drawing No.
CADD	J.L.L.	G.C.	J.L.L.	JAN 2015	

Project No. MSA143810.0062  
Contract No. MSA143810.0062  
Revision No. 5  
Scale: NOT TO SCALE

**C003**

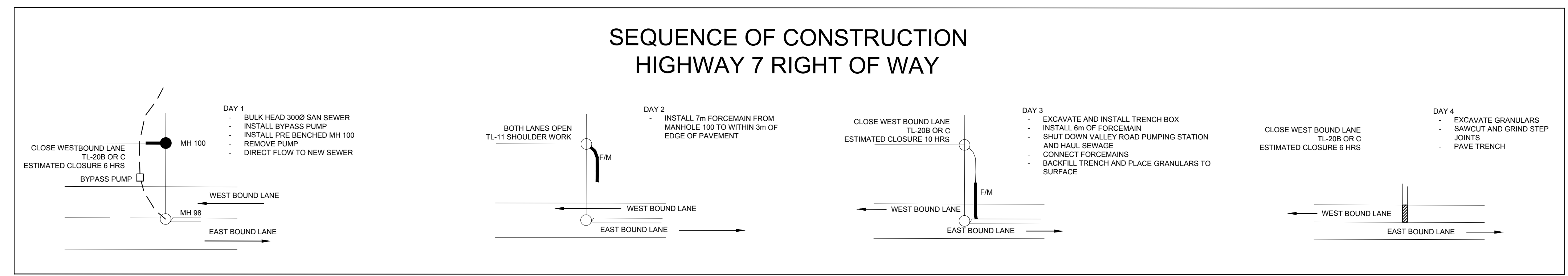
**FOR TENDER**





**PROPOSED WORKS  
TRAFFIC CONTROL PLAN  
AND SCHEDULE OF WORKS  
WITHIN MTO ROW**

NOTE:  
SIGNING AND TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH ONTARIO TRAFFIC MANUAL BOOK 7 - TEMPORARY CONDITIONS.  
CONTRACTOR TO SUBMIT TRAFFIC CONTROL PLANS FOR ALL PHASES OF WORK.  
A MINIMUM OF ONE LANE SHALL REMAIN OPEN AT ALL TIMES DURING WORKING HOURS AND TWO LANES EVENINGS AND WEEKENDS.



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TOP OF HYDRANT AT SOUTHWEST CORNER OF HOUSE #320 ON NORTH SIDE OF HIGHWAY #7 ALMA STREET

**BM#9 ELEV 355.908m**  
SPIKE IN NORTH FACE OF THP # 37-100 ON WEST SIDE OF D/W TO ROCKWOOD SEWAGE PLANT ON NORTH SIDE OF HIGHWAY #7 ALMA STREET

**BM#10 ELEV 352.910m**  
TOP CUT-CROSS AT EAST SIDE OF CONCRETE GARAGE DOOR SILL ON SOUTH SIDE OF ROCKWOOD SEWAGE PLANT

**BM#6 ELEV 359.615m**  
TOP OF HYDRANT AT SOUTHEAST CORNER OF HIGHWAY #7 ALMA STREET AND FALL STREET

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Drawing Title:  
**ALMA ST. WASTEWATER  
PRETREATMENT FACILITY UPGRADES  
TRAFFIC CONTROL PLAN**

Drawn K.P. / J.R.	Checked G.C.	Designed	Checked	Date FEB. 2015	Drawing No.
Project No. MSA143810.0004	Contract No.	Revision No. 5			

Scale: 1:500

**T001**

**FOR TENDER**

# DOOR SCHEDULE

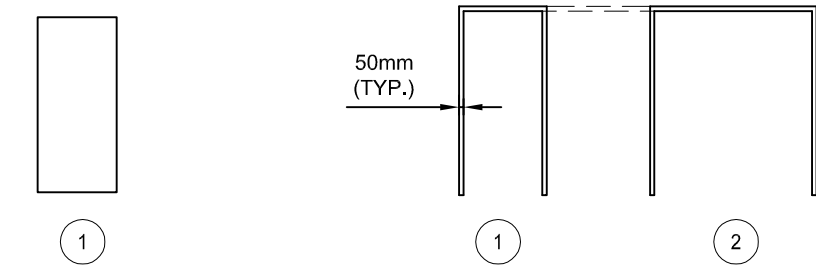
No.	DOOR				DOOR NOMINAL SIZE			DOOR FRAME				MINIMUM FIRE LABEL	BARRIER FREE INSTALLATION	REMARKS	HARDWARE CODES
	TYPE	MATERIAL	FINISH	ELEVATION	THICK	WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	ELEVATION				
D101	HM	INS-ST	PT	1	45	1100	2150	THM	ST	PT	1				A.B.C.D.F.I.K.L.M.N.P
D102	HM	INS-ST	PT	1	45	900	2150	THM	ST	PT	1				A.B.C.D.F.I.K.L.M.N.P
D103	HM	INS-ST	PT	1	45	900	2150	HM	ST	PT	1	1.5hr		RATED DOOR, FRAME & CLOSER OVERHEAD DOOR, POWER OPENER (EXPLOSION PROOF)	A.B.C.D.F.I.K.L.M.N.P
D104	ST	INS-ST	PT	-	-	3350	3050	-	-	PT	-				
D105	HM	INS-ST	PT	1	45	1100	2150	THM	ST	PT	1				A.B.C.D.F.I.K.L.M.N.P
D106	HM	INS-ST	PT	1	45	2200	2150	THM	ST	PT	2			DOUBLE DOOR	A.B.C.D.F.I.K.L.M.N.P
D107	HM	INS-ST	PT	1	45	1100	2150	THM	ST	PT	1				A.B.C.D.F.I.K.L.M.N.P
D108	HM	INS-ST	PT	1	45	1100	2150	THM	ST	PT	1				A.B.C.D.F.I.K.L.M.N.P

ST = STEEL    HM = HOLLOW METAL    THM = THERMALLY BROKEN HOLLOW METAL    INS-ST = INSULATED STEEL    PT = PAINT

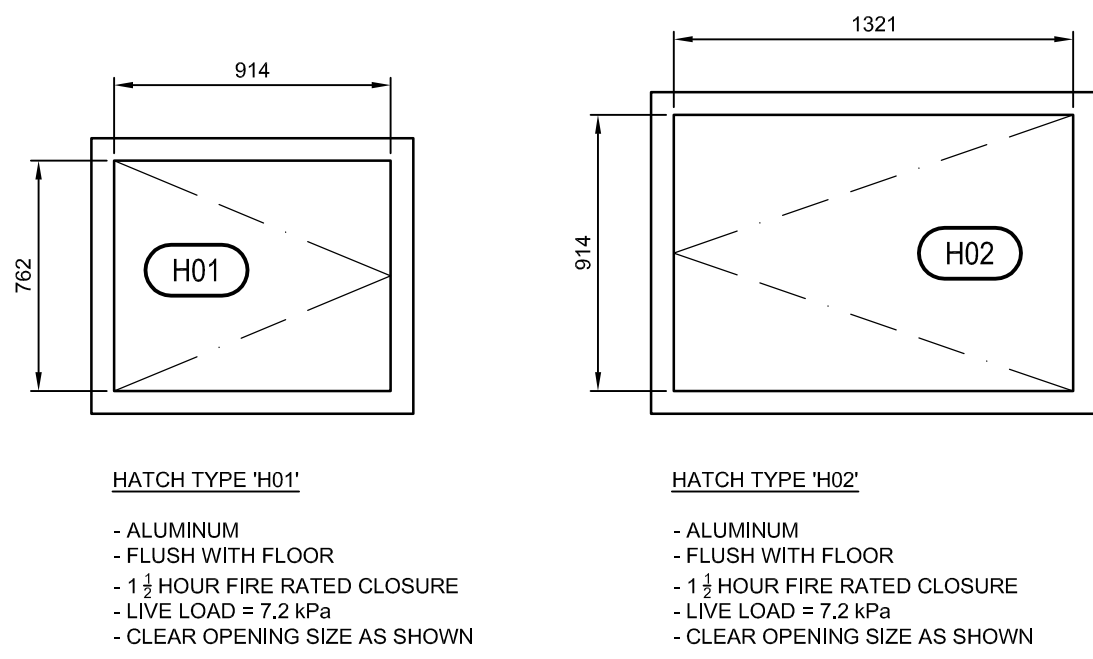
**NOTES:**

- INSULATE ALL EXTERIOR DOORS AND FRAMES, THERMAL BREAK FRAMES FOR NON-RATED EXTERIOR DOORS.
- ALL STEEL FRAMES TO BE WELDED.
- ALL DOORS LOCATED IN A FIRE SEPARATION ARE TO BE EQUIPPED WITH A POSITIVE LATCHING MECHANISM DESIGNED TO HOLD THE DOOR CLOSED AFTER EACH USE IN ACCORDANCE TO ONTARIO BUILDING CODE ARTICLE 3.1.8.13.
- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
- DOUBLE DOOR TO INCLUDE LOCKING THUMB LATCH ON EXTERIOR OF LEFT LEAF, SELF CLOSER ON LEFT LEAF WITH HOLD OPEN, SWING LIMITING HOLD OPEN ON RIGHT LEAF, DEAD BOLTS AT TOP AND BOTTOM ON RIGHT LEAF W/ ASTRAGAL

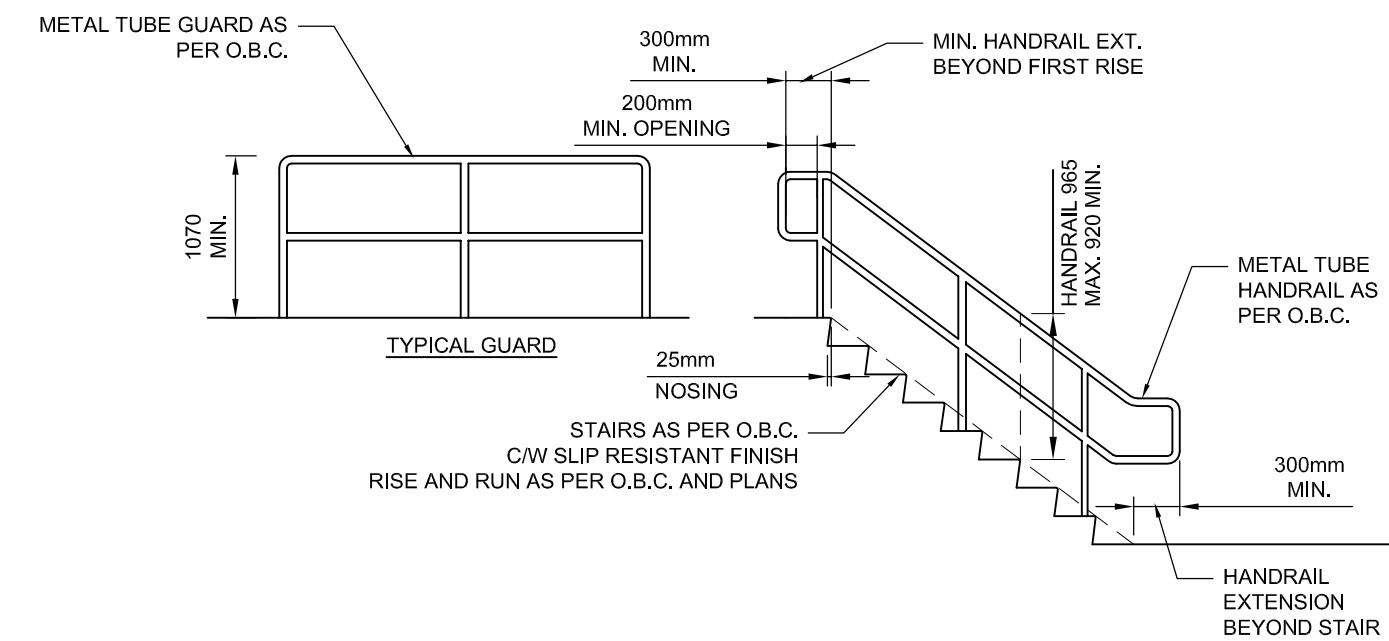
A. 1 1/2 PAIR TAMPERPROOF HEAVY DUTY HINGES  
 B. DOOR CLOSER  
 C. SELF-LATCHING HARDWARE  
 D. LOCKABLE  
 E. PASSAGE SET  
 F. PANIC HARDWARE  
 G. PUSH/PULL  
 H. BARRIER FREE HARDWARE  
 I. KICK PLATE INTERIOR  
 J. DOOR STOP  
 K. WEATHER STRIPPING  
 L. THRESHOLD  
 M. SWEEP  
 N. KEY ACCESS FROM EXIT  
 O. WASHROOM SET (PRIVATE)  
 P. WIND LIMITER INTEGRAL WITH CLOSER  
 Q. UNIVERSAL BARRIER FREE SIGNAGE  
 R. POWER DOOR OPERATOR



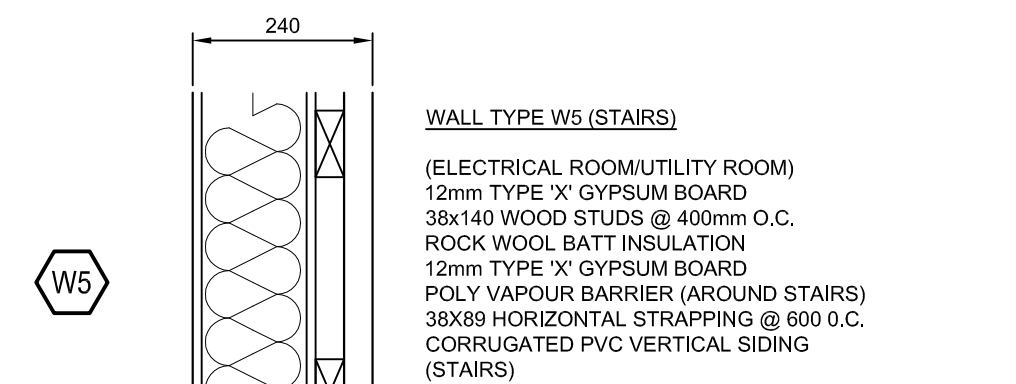
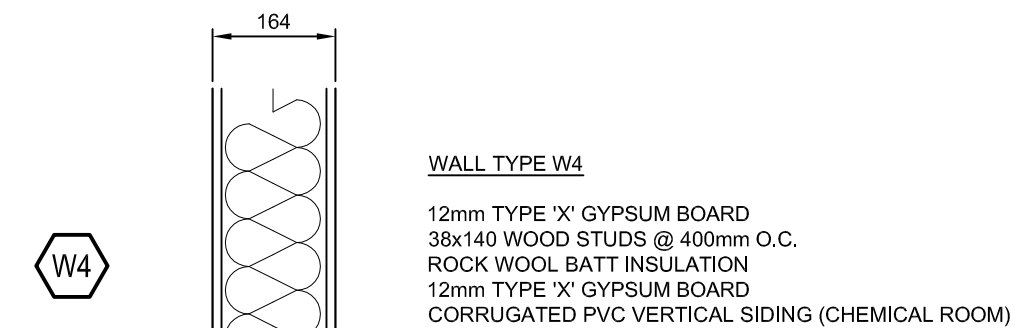
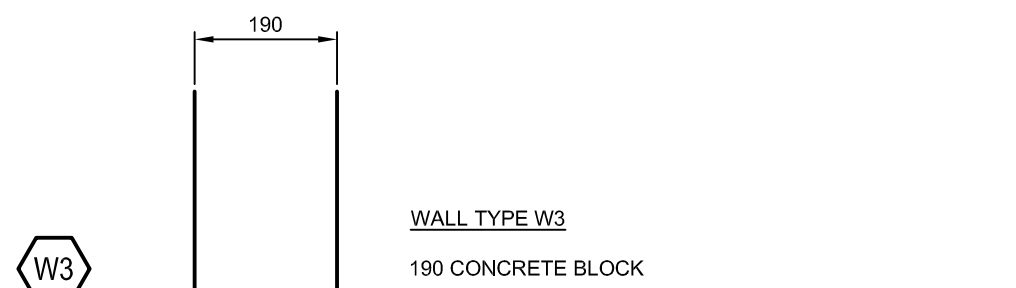
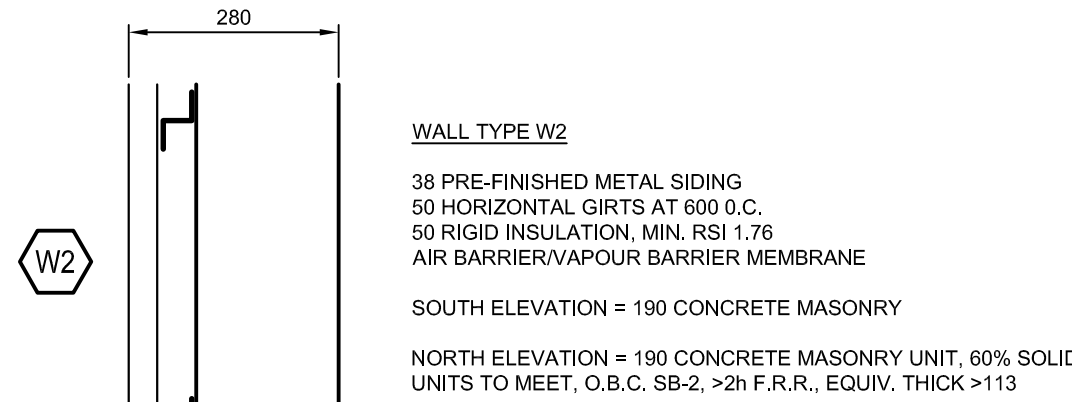
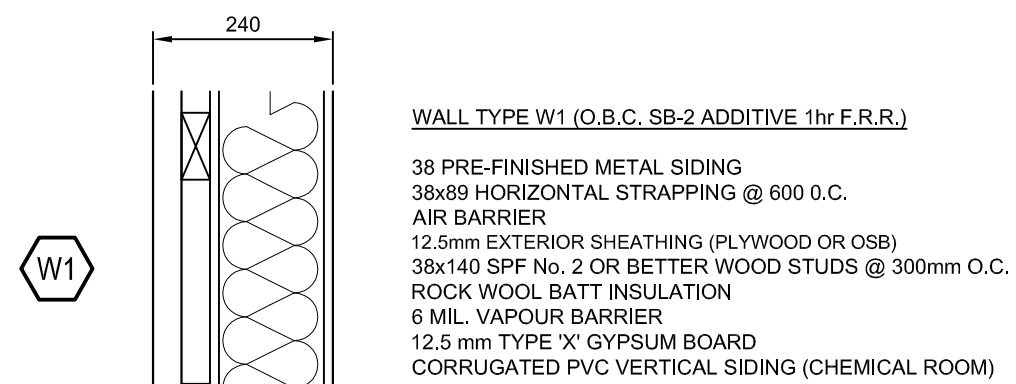
# HATCH SCHEDULE



# TYPICAL HANDRAIL / GUARD



# CONSTRUCTION LEGEND



# ROOM FINISH SCHEDULE

No.	Room Name	North Wall		East Wall		South Wall		West Wall		Floor		Ceiling		Comments
		Material	Finish	Material	Finish	Material	Finish	Material	Finish	Material	Finish	Material	Finish	
101	ELECTRICAL ROOM	GWB	PT	GWB	PT	GWB	PT	GWB	PT	CONC	CS	GWB	PT	
102	UTILITY ROOM	GWB	PT	CMU	PT	GWB	PT	GWB	PT	CONC	CS	GWB	PT	
103	STAIR	GWB	PVC	CMU	PT	GWB	PVC	GWB	PVC	CONC	CS	GWB	PVC	
104	PROCESS ROOM	CMU	PT	CMU	PT	CMU	PT	CMU	PT	CONC	CS	PC	PT	
105	CHEMICAL ROOM	GWB	PVC	GWB	PVC	GWB	PVC	CMU	PT	CONC	CS	GWB	PVC	
106	BLOWER / UTILITY ROOM	GWB	PT	GWB	PT	GWB	PT	CMU	PT	CONC	CS	GWB	PT	
001	WET WELL No. 1	CONC	-	CONC	-	CONC	-	CONC	-	CONC	-	CONC	-	
002	WET WELL No. 2	CONC	-	CONC	-	CONC	-	CONC	-	CONC	-	CONC	-	
003	METER / VALVE ROOM	CONC	PT	CONC	PT	CONC	PT	CONC	PT	CONC	CS	CONC	PT	

**ROOM FINISH LEGEND**

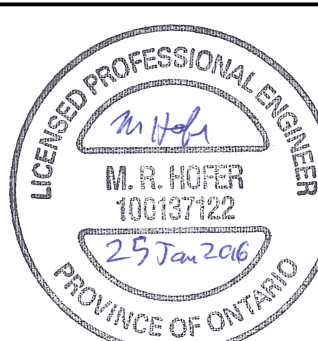
CMU CONCRETE MASONRY UNIT  
 CONC CONCRETE  
 GWB GYPSUM WALL BOARD  
 EC EPOXY COATING  
 PC PRECAST CONCRETE SLAB  
 PT PAINT (COLOUR TO BE SELECTED BY OWNER)  
 CS CONCRETE SEALED WITH CHEMICAL SEALER/HARDNER  
 PVC CORRUGATED PVC VERTICAL SIDING (SELECT BY OWNER)

# OBC MATRIX

Item	Ontario's 2012 Building Code Data Matrix Part 3 or 9				OBC Reference							
	Part 1	Part 2	Part 3	Part 9	Part 3	Part 9						
1	Project Description: <input type="checkbox"/> New, <input type="checkbox"/> Addition, <input type="checkbox"/> Change of Use, <input type="checkbox"/> Alteration	11.1 to 11.4	1.1.2. [A]	1.1.2. [A] & 9.10.1.3								
2	Major Occupancy(s) - F2 - PRETREATMENT FACILITY UPGRADES	New F2 - 272.6	Total F2 - 272.6	3.1.2.1.(1)	9.10.2							
3	Building Area (m²)	New F2 - 272.6	Total F2 - 272.6	1.4.1.2.[A]	1.4.1.2.[A]							
4	Gross Area (m²)	New F2 - 272.6	Total F2 - 272.6	1.4.1.2.[A]	1.4.1.2.[A]							
5	Number of Storeys	Above Grade - 1, Below Grade - 1		1.4.1.2.[A] & 3.2.1.1.	1.4.1.2.[A] & 9.10.4.							
6	Number of Streets/Fire Fighter Access - 1			3.2.2.10. & 3.2.5.	9.10.20.							
7	Building Classification - GROUP 'F' DIVISION 2			3.2.2.71	9.10.2.							
8	General Review Required	<input type="checkbox"/> Yes, <input checked="" type="checkbox"/> No		1.2.2.1.(1) [C] & Table 1.2.2.1. [C]								
9	Sprinklered System Proposed	<input type="checkbox"/> entire building, <input type="checkbox"/> selected compartments, <input type="checkbox"/> selected floor areas, <input type="checkbox"/> in lieu of roof rating, <input type="checkbox"/> basement, <input checked="" type="checkbox"/> not required		3.2.2., 3.2.1.5., SEE INDEX, 3.2.2.17., 3.2.1.5. & 3.2.2.15	9.10.8.2., 9.10.1.3.(3) & 3.2.2.15							
10	Standpipe Required	<input type="checkbox"/> Yes, <input checked="" type="checkbox"/> No		3.2.9.	N/A							
11	Fire Alarm Required	<input type="checkbox"/> Yes, <input checked="" type="checkbox"/> No		3.2.4.	9.10.18							
12	Water Service/Supply is Adequate	<input checked="" type="checkbox"/> Yes, <input type="checkbox"/> No		3.2.5.7.	N/A							
13	High Building	<input type="checkbox"/> Yes, <input checked="" type="checkbox"/> No		3.2.6.	N/A							
14	Construction Restrictions	<input checked="" type="checkbox"/> Combustible permitted, <input type="checkbox"/> Non-combustible required, <input type="checkbox"/> Both		3.2.2.	9.10.6.							
15	Mezzanine(s) Area (m²) -	-		3.2.1.1.(3)-(8)	9.10.4.1.							
16	Occupant load based on 1st floor Total	<input type="checkbox"/> m²/person, <input checked="" type="checkbox"/> design of building, Occupancy - 3 PERSONS, Load - 3 person, Occupancy - 3 PERSONS, Load - 3 persons		3.1.17.	9.9.1.3.							
17	Barrier-Free Design	<input type="checkbox"/> Yes, <input checked="" type="checkbox"/> No		3.8., 3.8.1.1.(1)(c)	9.5.2., 3.8.1.1.(1)(c)							
18	Hazardous Substances	<input type="checkbox"/> Yes, <input checked="" type="checkbox"/> No		3.3.1.2. & 3.3.1.19.	9.10.1.3.(4)							
19	Required Fire Resistance Rating (FRR)	Horizontal Assemblies: Floors - 0.75 hours, Roof - 0 hours, Mezzanine - 0 hours; FRR of Supporting Members: Floors - 0.75 hours, Roof - 0 hours, Mezzanine - 0 hours	Listed Design No. or Description (SB-2 or SB-3)	3.2.2. & 3.2.1.4.	9.10.8., 9.10.9.							
20a	Spatial Separation - Construction of New Exterior Walls			3.2.3.								
		Wall	Area of EBF (m²)	L.D. (m)	L/R or h/L	Permitted Max. % of Openings	Proposed % of Openings	FRR (hours)	Listed Design or Description	Comb Const	Comb Const Non-Const	Non-Comb. Const
		West	51.7	37.2	<3:1	100	5.4	1.0	OBC SB-2 additive as per wall sched.		x	
		East	51.7	106.2	<3:1	100	12.2	1.0	OBC SB-2 additive as per wall sched.		x	
		North Elevation - Area of exposing building face split as per 3.2.3.2.(2), L.D. line at 5.0m from operations office 5.6m from treatment plant										
		NE 2-3	20.3	5.6	<3:1	46.5	22	1.0	OBC SB-2 additive as per wall sched.		x	
		N. 3-4	52.00	5.6	3:1-10:1	20.8	19.7	2.0	SB-2, equiv. thick, > 113, 2hr FRR, Min door rated 1.5hr			x
		NW 4-5	16.5	5.6	<3:1	38.9	13.2	1.0	OBC SB-2 additive as per wall sched.		x	
		South	88.8	33.8	3:1-10:1	100	8.7	1.0/2.0	OBC SB-2			x
21	Plumbing Fixture Requirements	No plumbing fixtures required, building not occupied on a daily basis, facilities available in nearby building								3.7.4.1.(3)	9.31.1.1.(2)(c), 3.7.4.1.(3)	
22	Travel Distances to Exits	Only one exit from F2 Occupancy floor area 25 m (floor area < 200m²)									9.9.7.4, 9.9.8.2. (2)	

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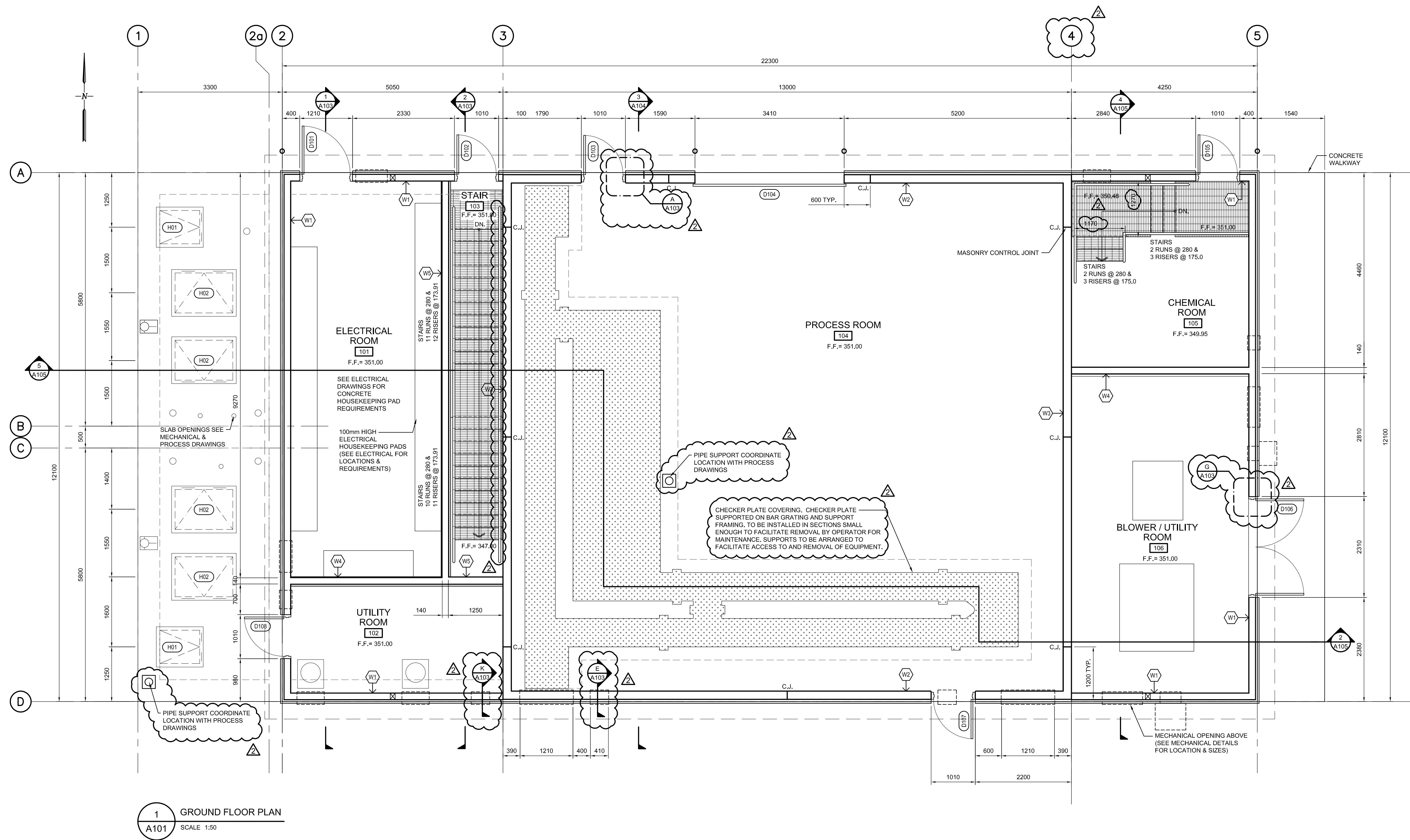
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**A100**





1 GROUND FLOOR PLAN  
A101 SCALE: 1:50

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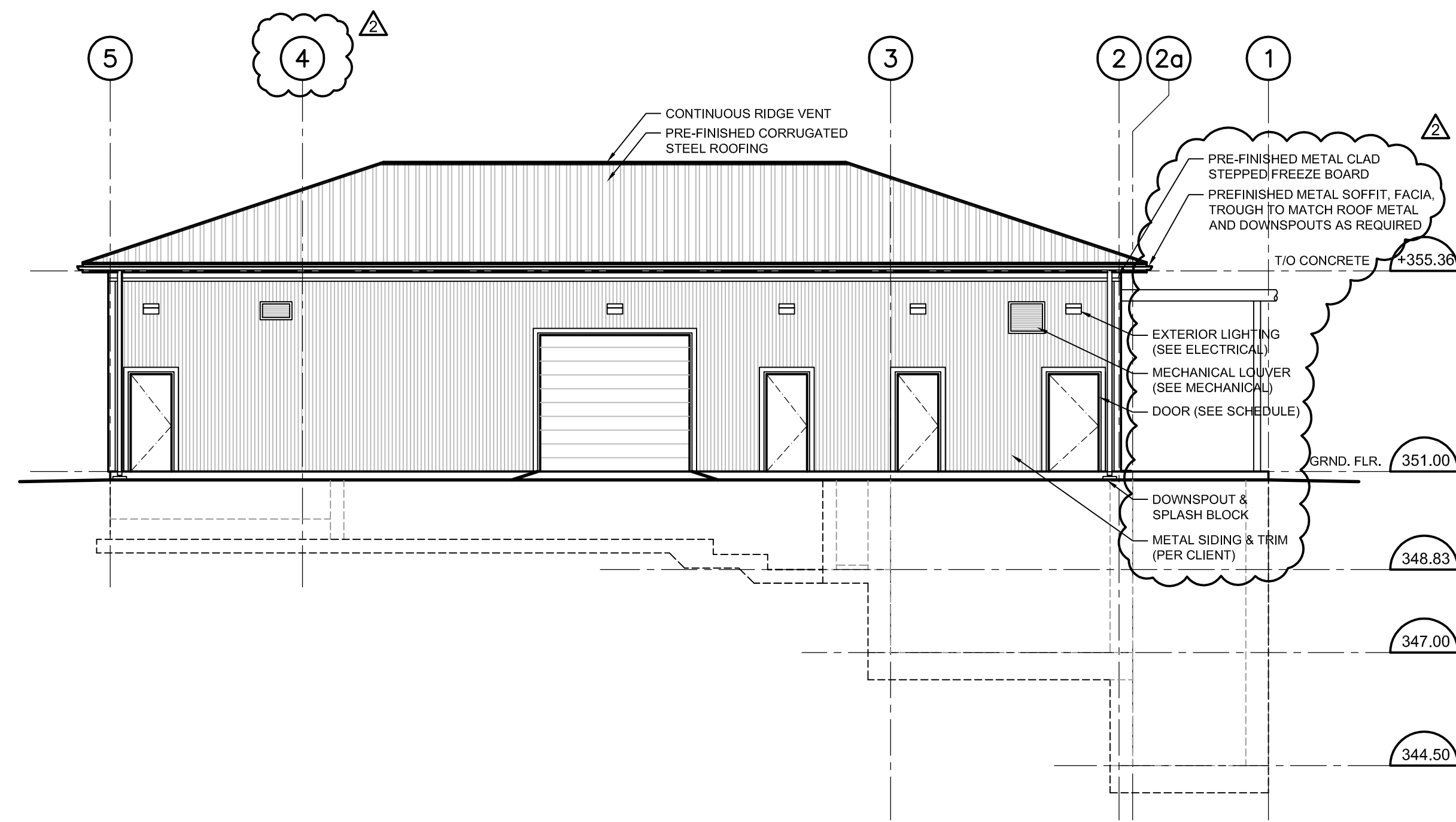
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 ROCKWOOD, ON  
 N0B 2K0

Drawn by  
**ALMA ST. WASTEWATER PRETREATMENT FACILITY UPGRADES ARCHITECTURAL MAIN FLOOR PLAN**

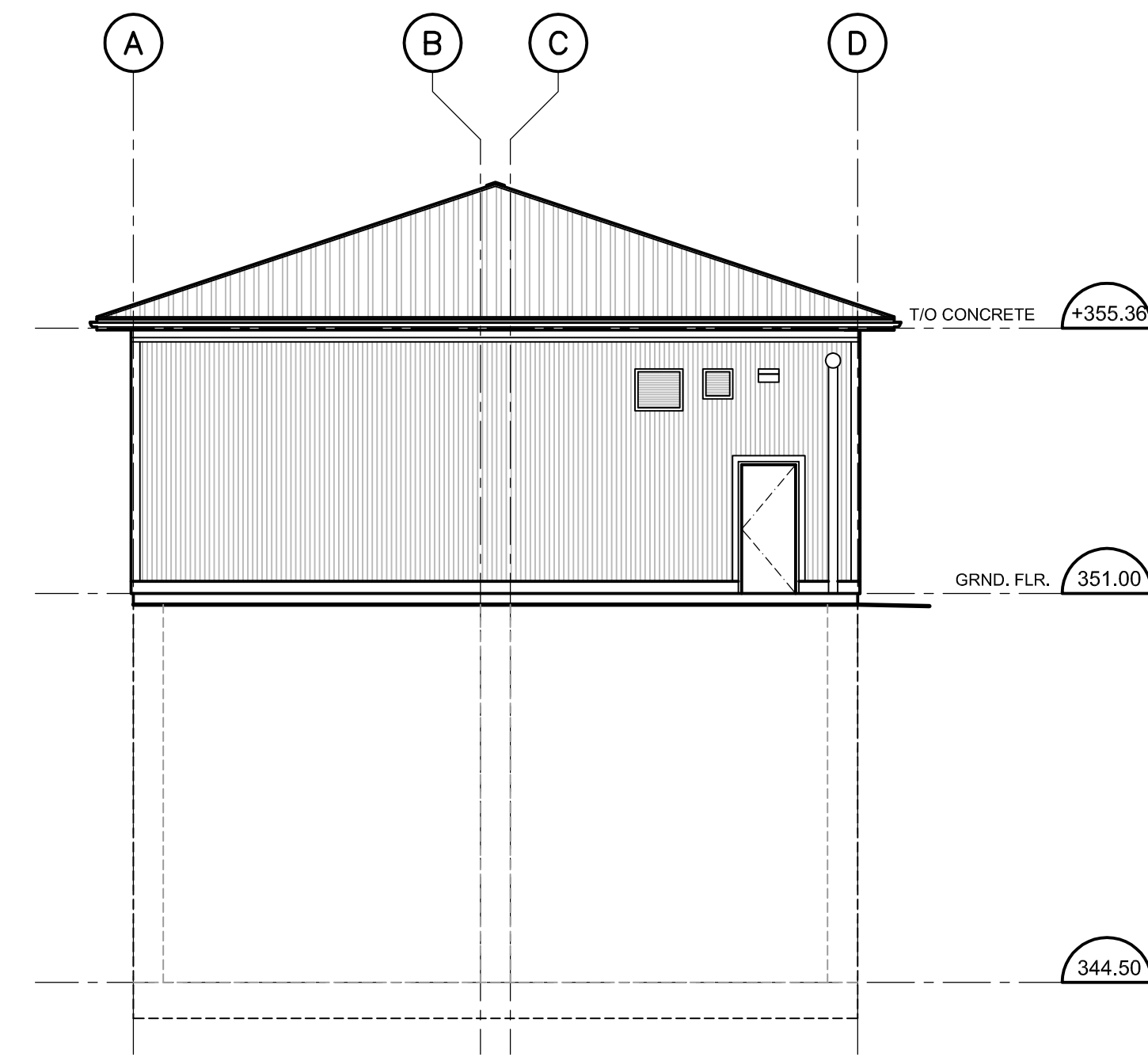
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T.T.	M.H.	M.H.	M.H.	15/02/28	A101

Project No. MSA143810.0062 Contract No. MSA143810.0062 Revision No. 2  
 Scale AS NOTED

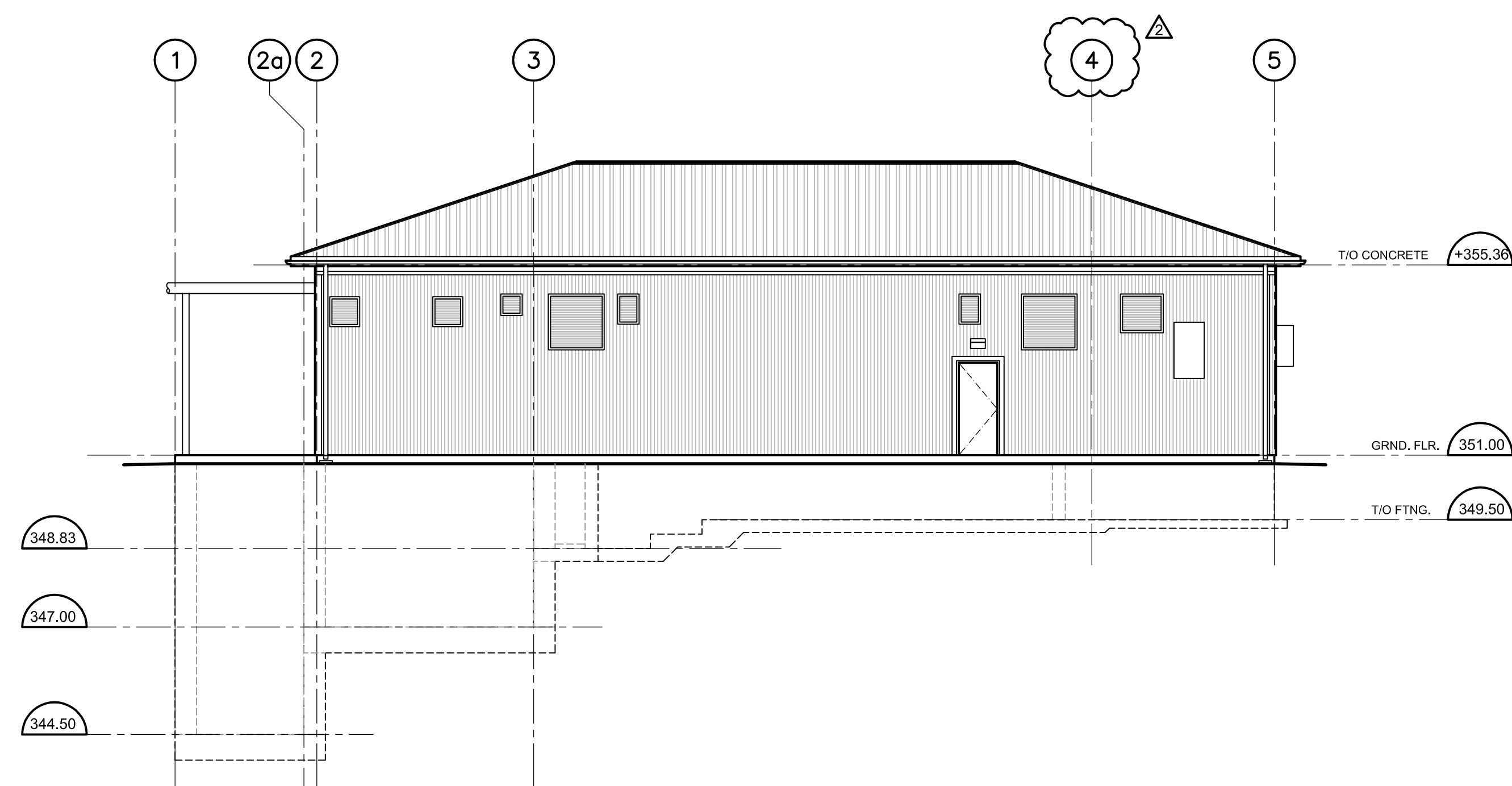
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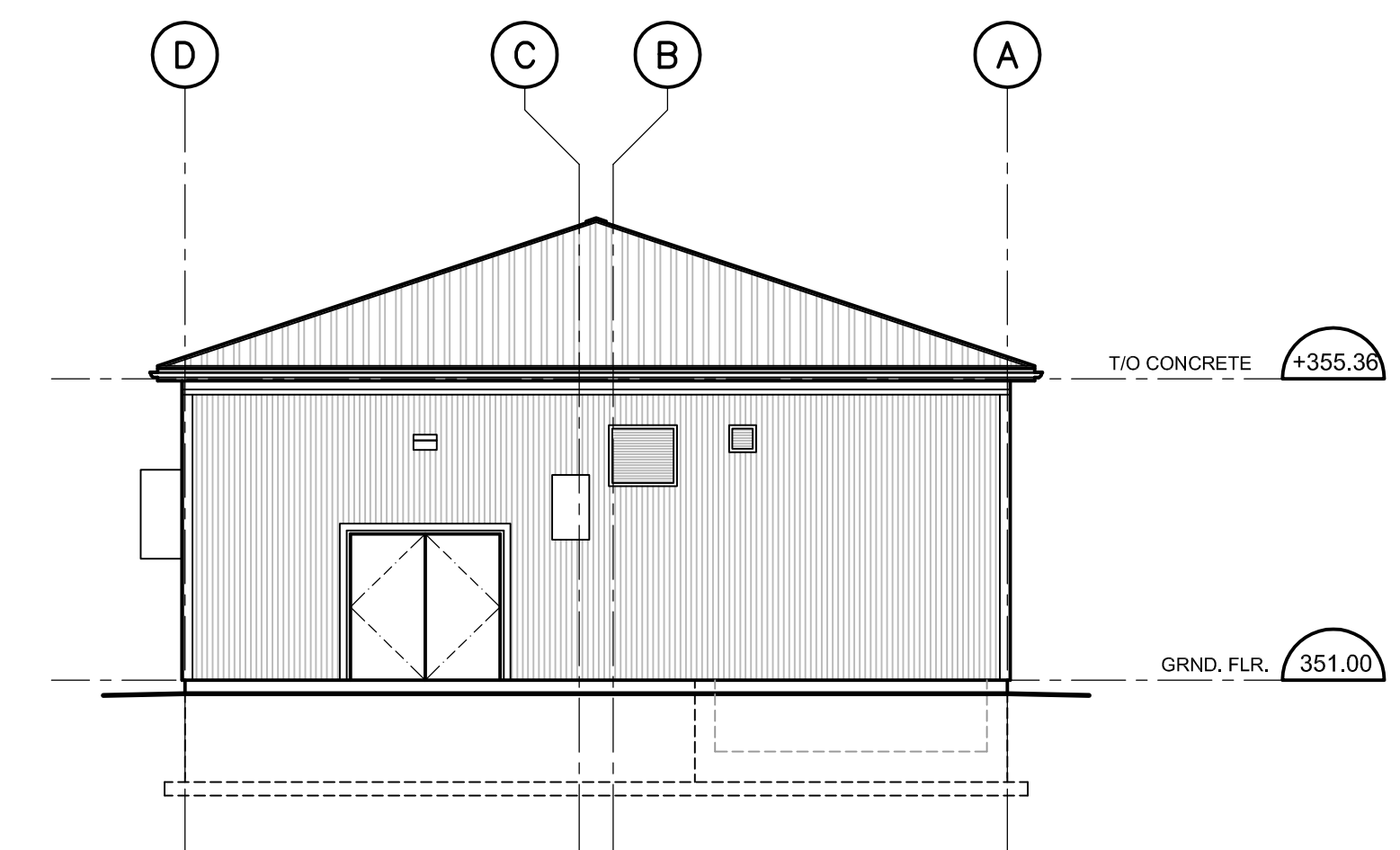
1 NORTH ELEVATION  
A102 SCALE 1:100



2 WEST ELEVATION  
A102 SCALE 1:100



3 SOUTH ELEVATION  
A102 SCALE 1:100



4 EAST ELEVATION  
A102 SCALE 1:100

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No.	Issue / Revision	Date	Auth.
1	ISSUED FOR 90% REVIEW	OCT. 2015	
2	ISSUED FOR TENDER	DEC. 2015	
3	REVISED AS PER ADDENDUM NO. 2	JAN. 2016	



FOR TENDER

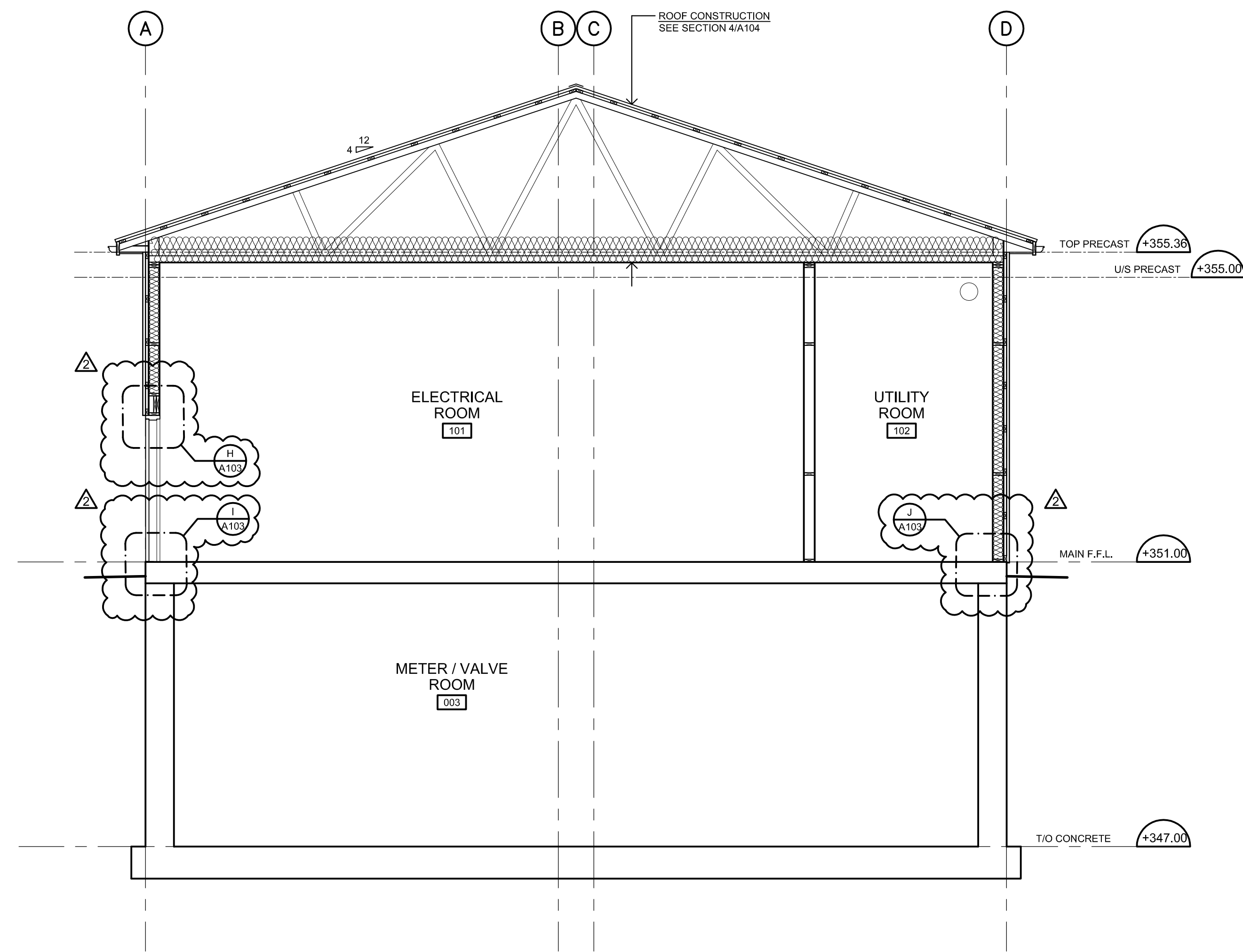
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**TOWNSHIP OF GUELPH / ERAMOSA**  
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ROCKWOOD, ON  
N0B 2K0

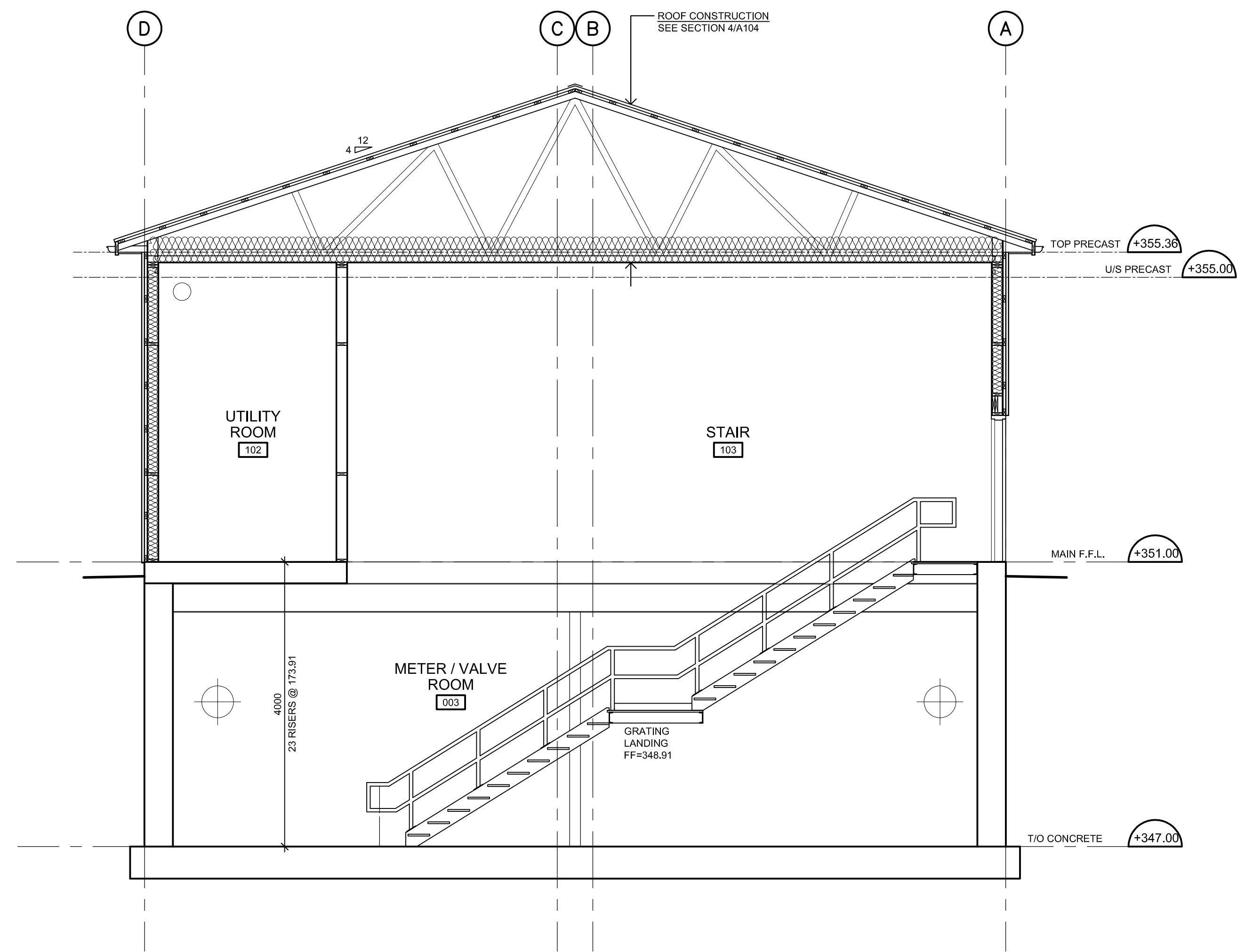
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T.T.	M.H.	M.H.	M.H.	M.H.	M.H.	M.H.	M.H.		
								15/02/28	
Project No. MSA143810.0062		Contract No. MSA143810.0062		Revision No. 2		<b>A102</b>			
Scale AS NOTED									

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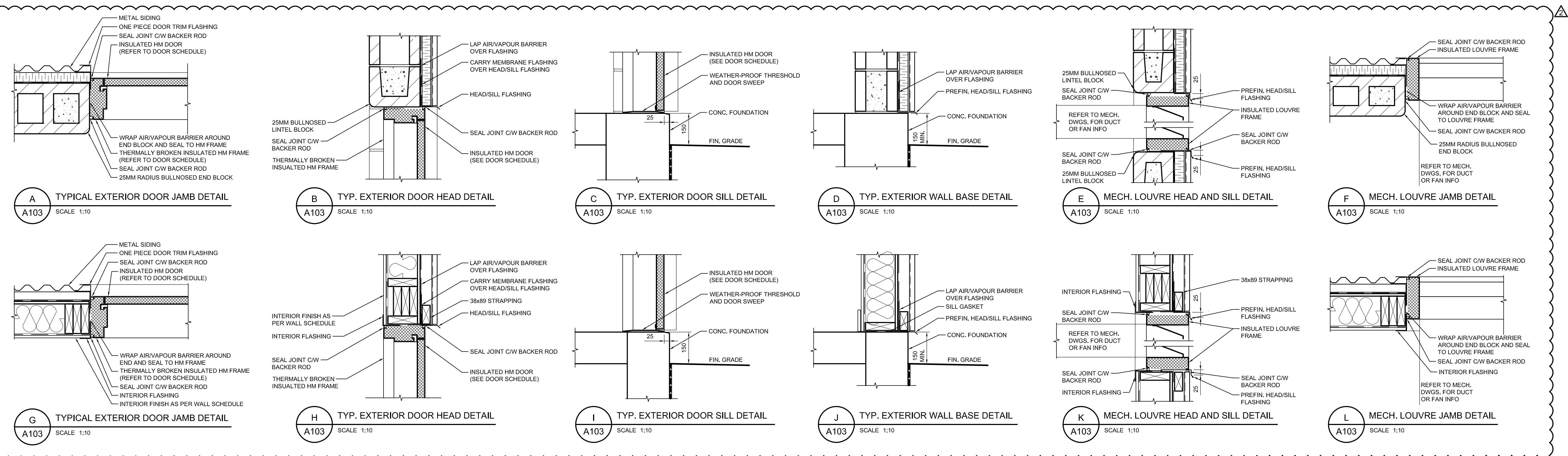




1 BUILDING SECTION  
A103 SCALE 1:50

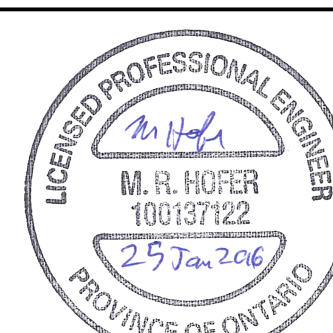


2 BUILDING SECTION  
A103 SCALE 1:50



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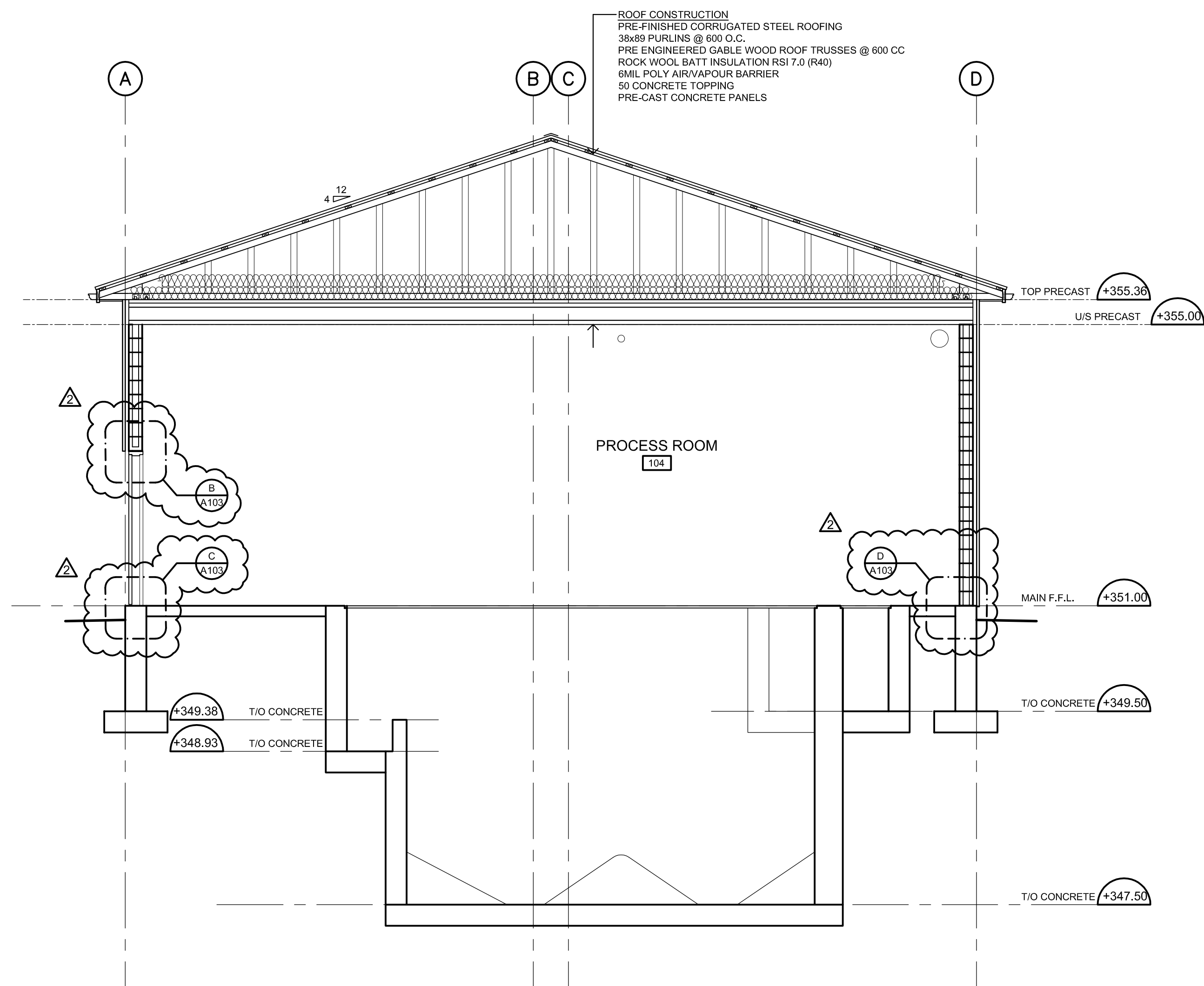
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N0B 2K0

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ARCHITECTURAL BUILDING SECTIONS

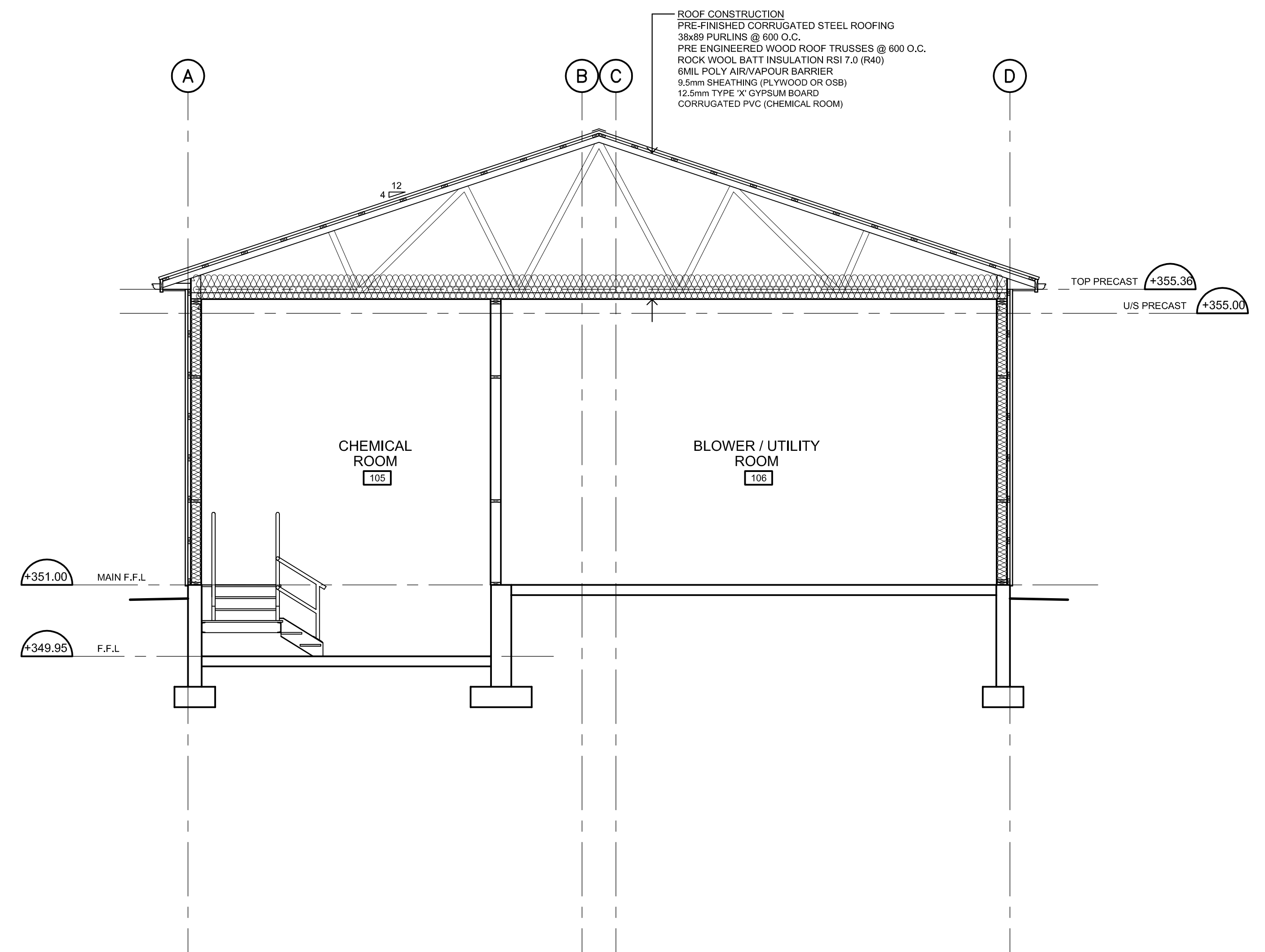
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T.T.	M.H.	M.H.	M.H.	15/02/28	

Project No. MSA143810.0062  
Contract No. MSA143810.0062  
Revision No. 2  
Scale AS NOTED

**A103**



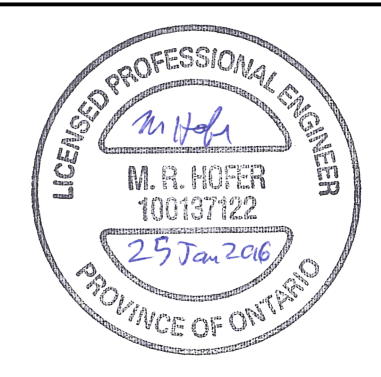
3 BUILDING SECTION  
A104 SCALE 1:50



4 BUILDING SECTION  
A104 SCALE 1:50

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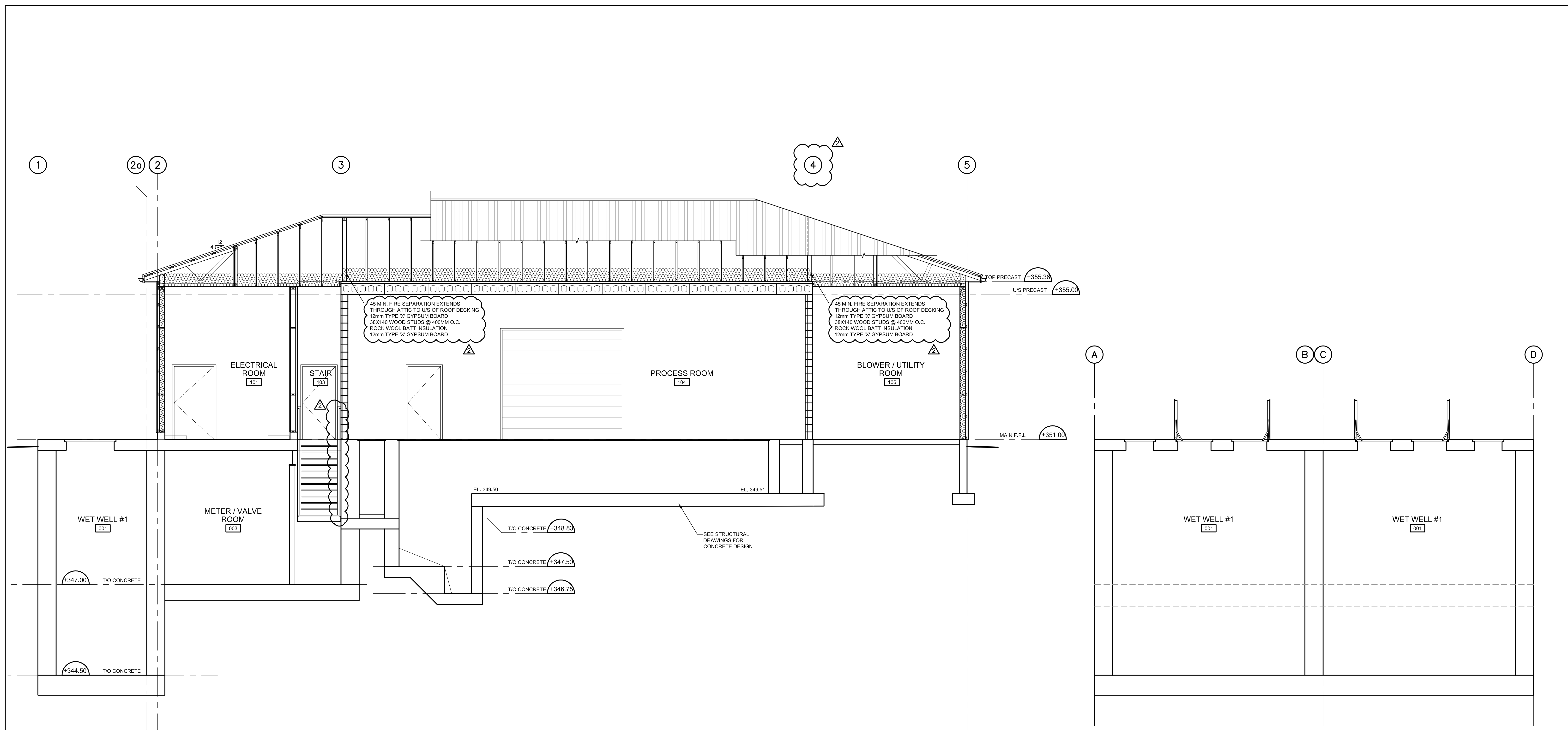
Client: **TOWNSHIP OF GUELPH / ERAMOSIA**  
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T.T.	M.H.	M.H.	M.H.	15/02/28	<b>A104</b>

Project No. MSA143810.0062  
Contract No. MSA143810.0062  
Revision No. 2  
Scale AS NOTED

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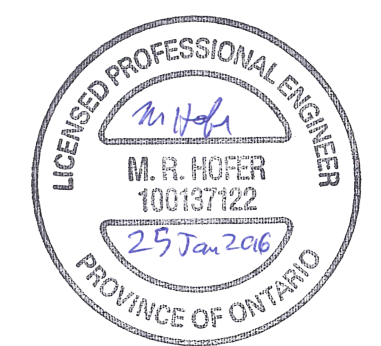


5 BUILDING SECTION  
A105 SCALE: 1:50

6 BUILDING SECTION  
A105 SCALE: 1:50

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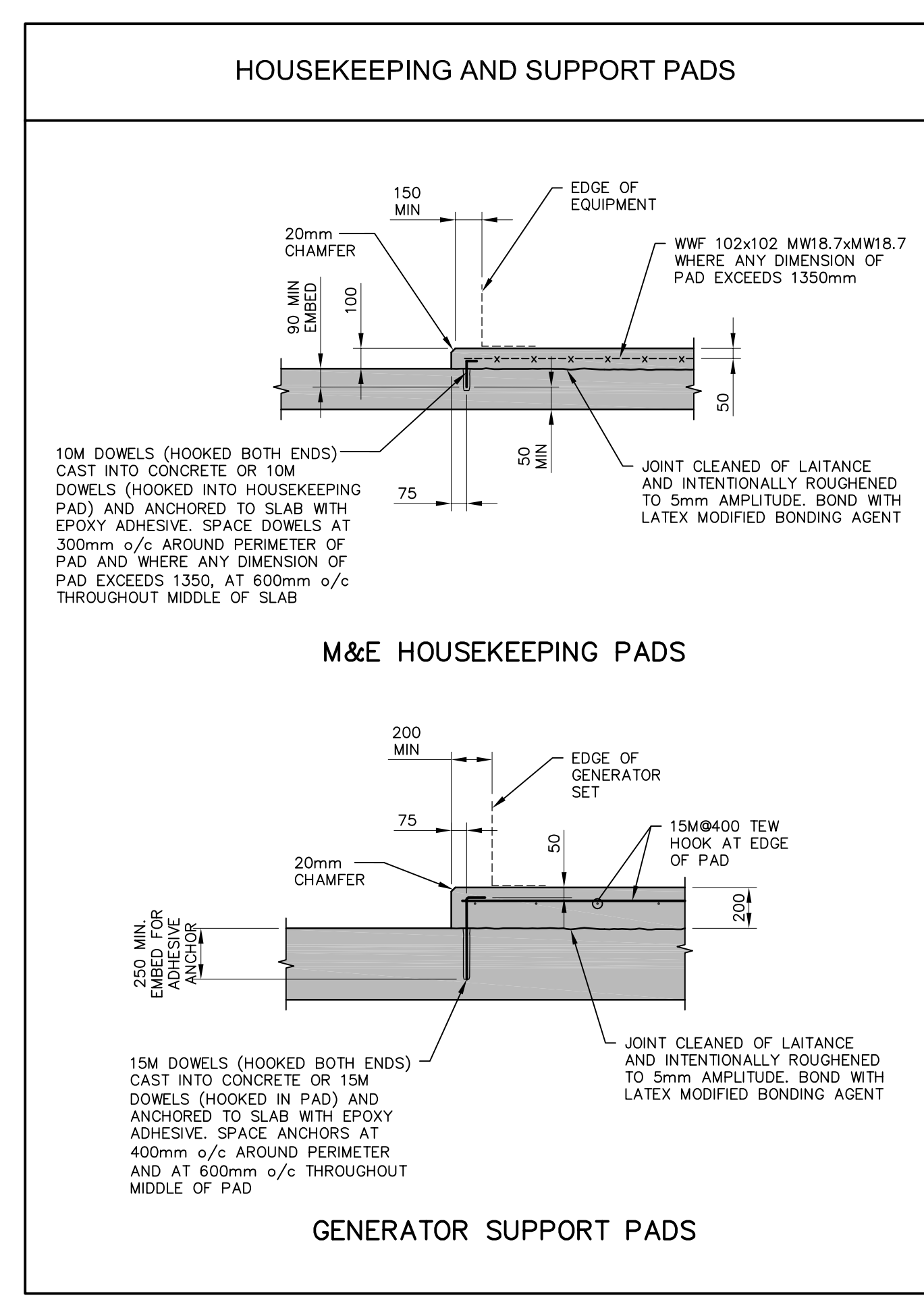
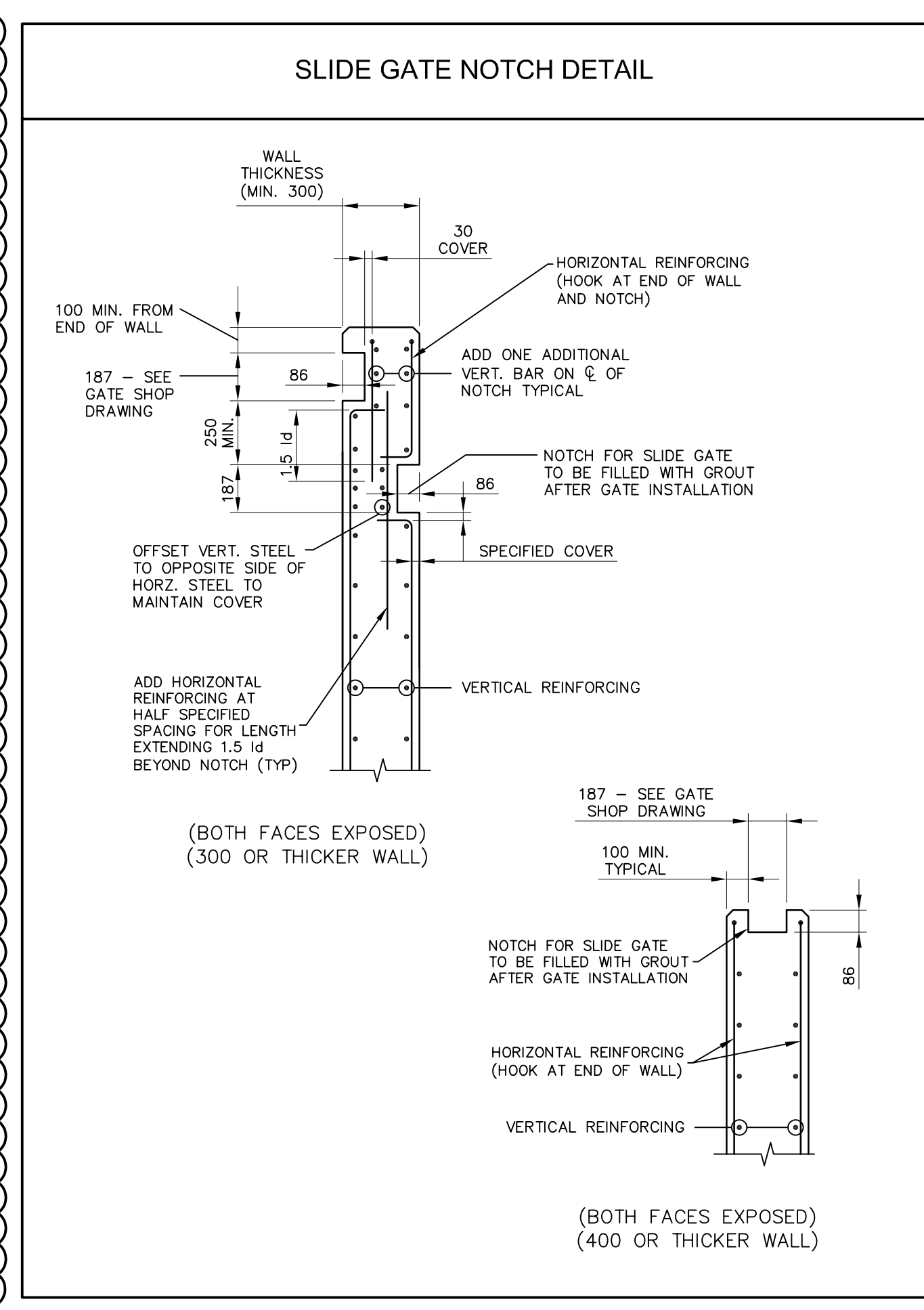
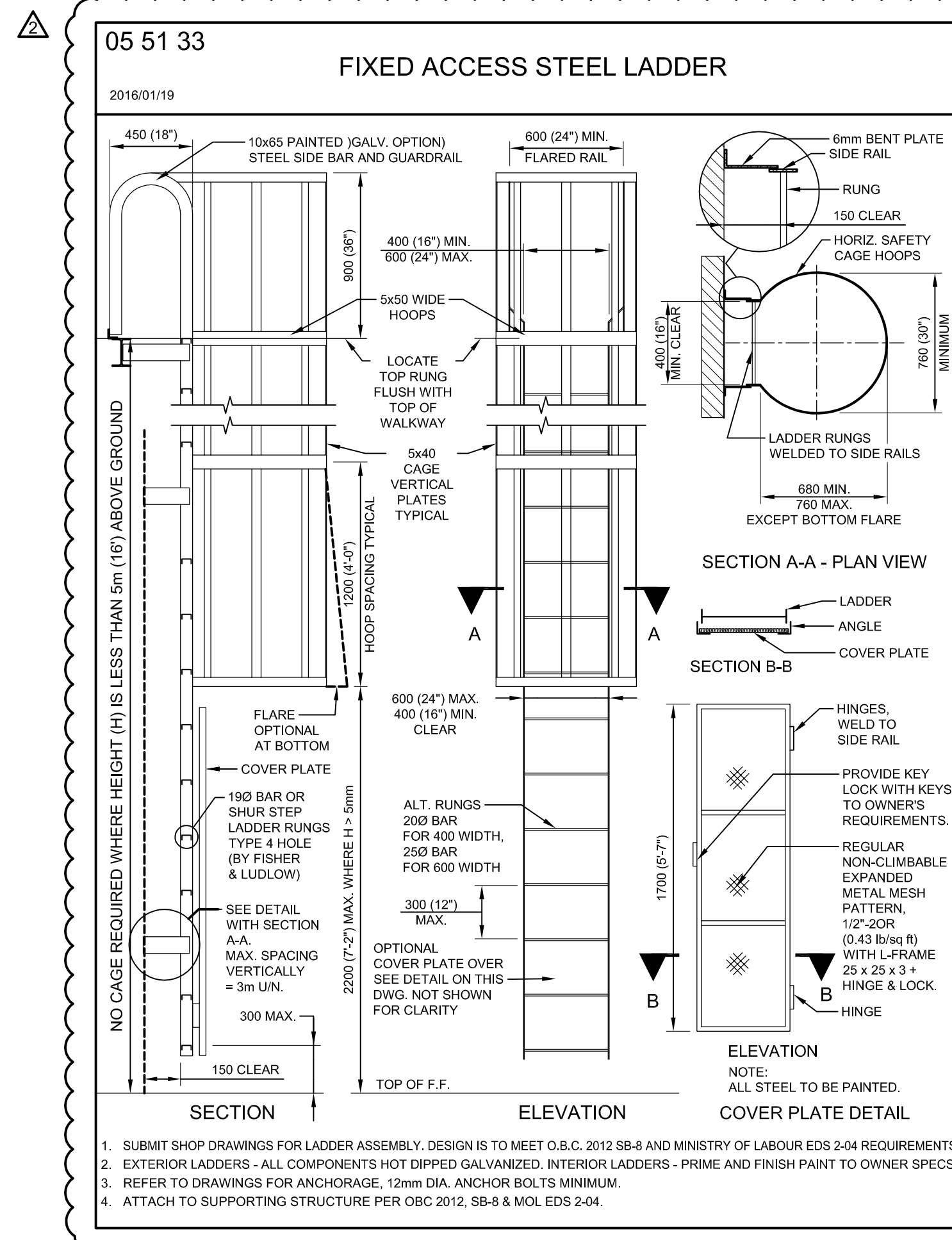
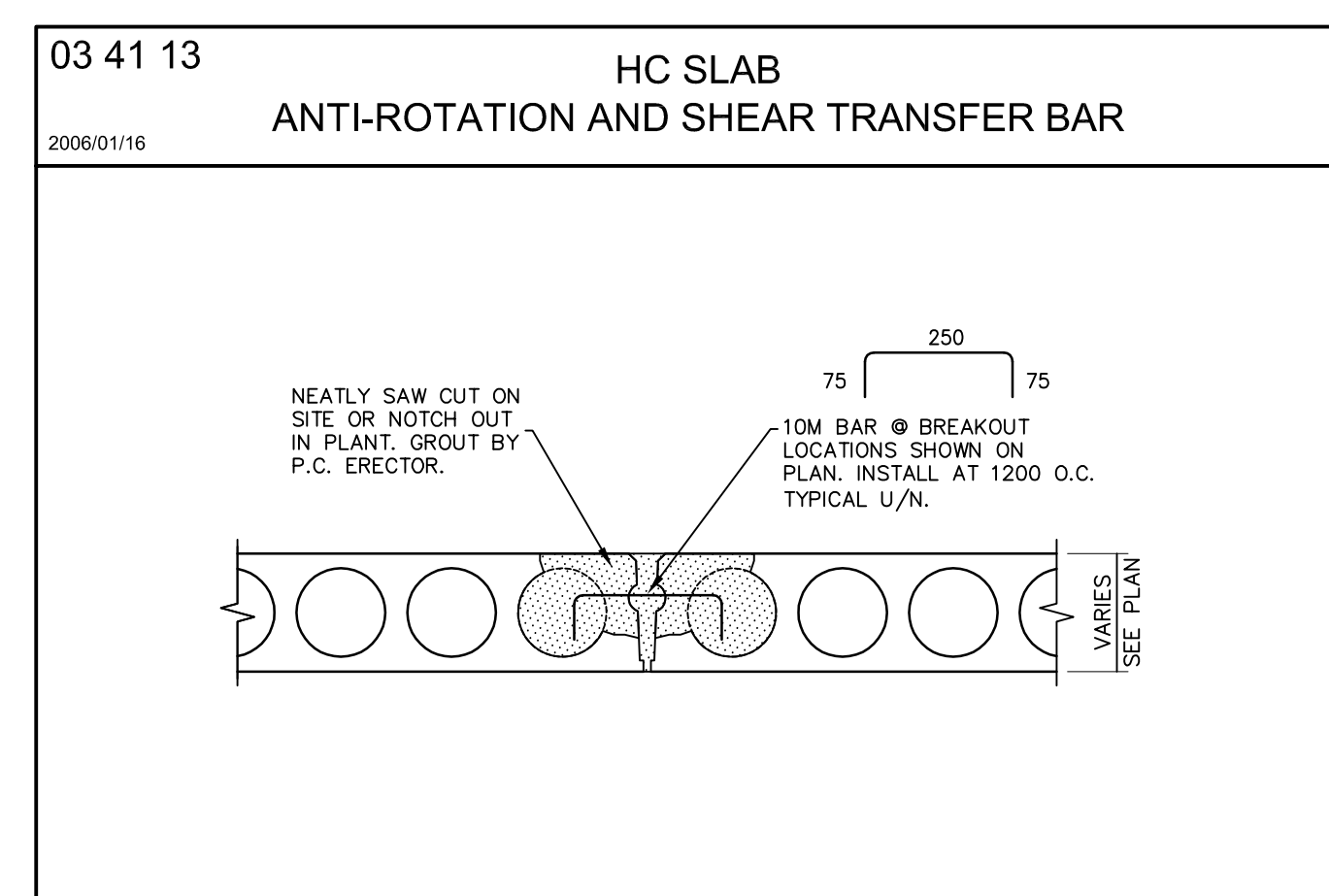
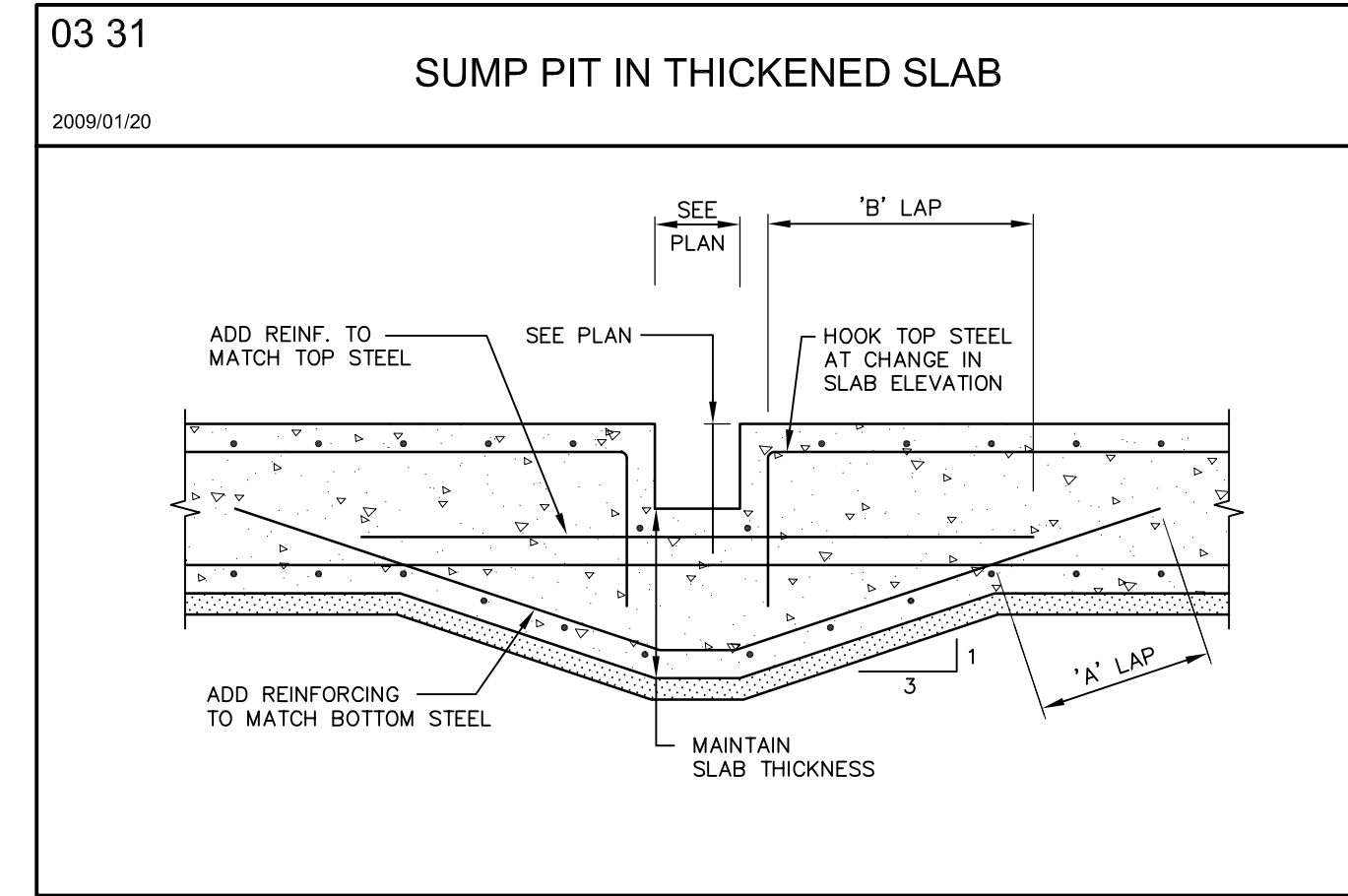
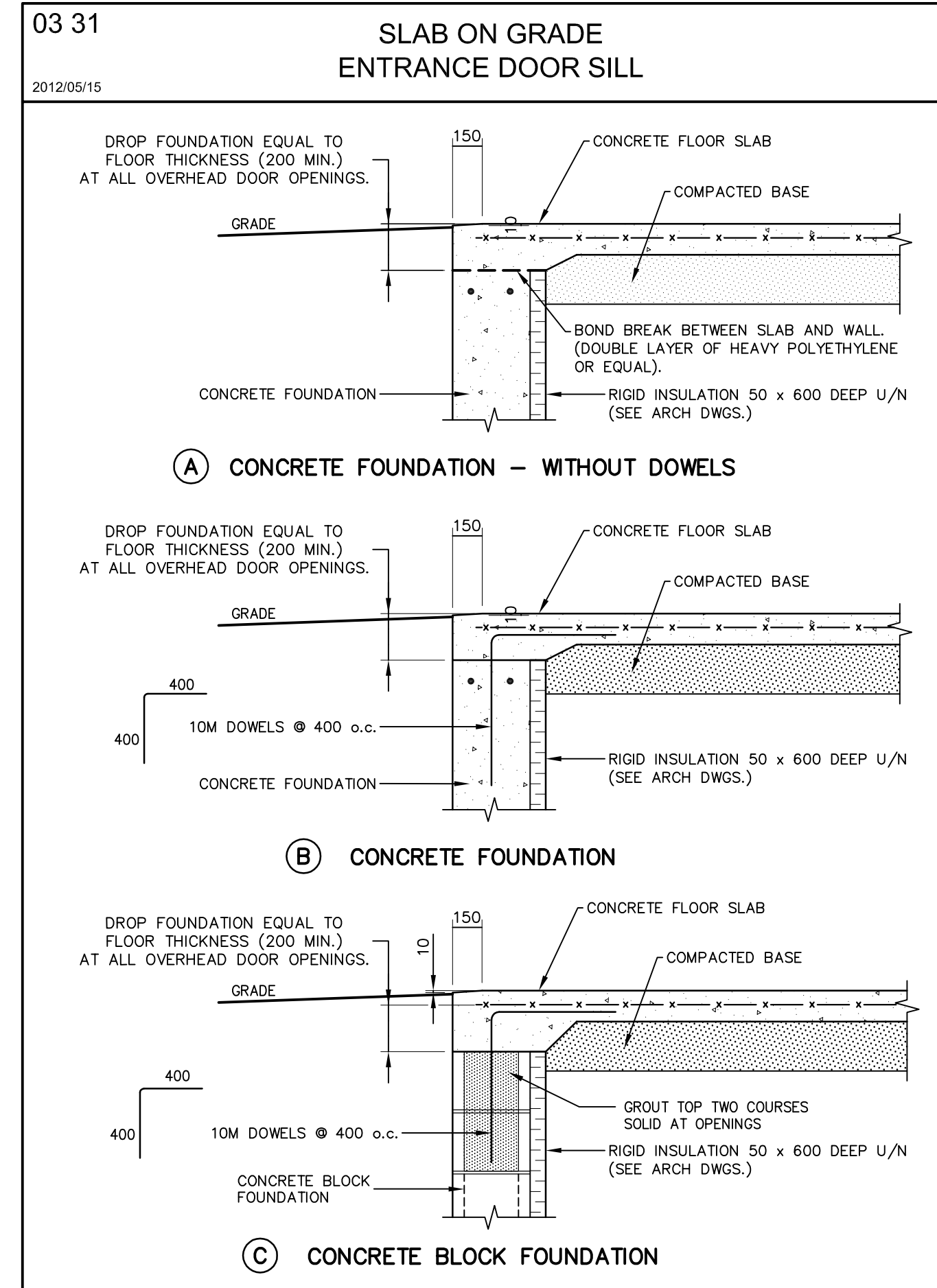
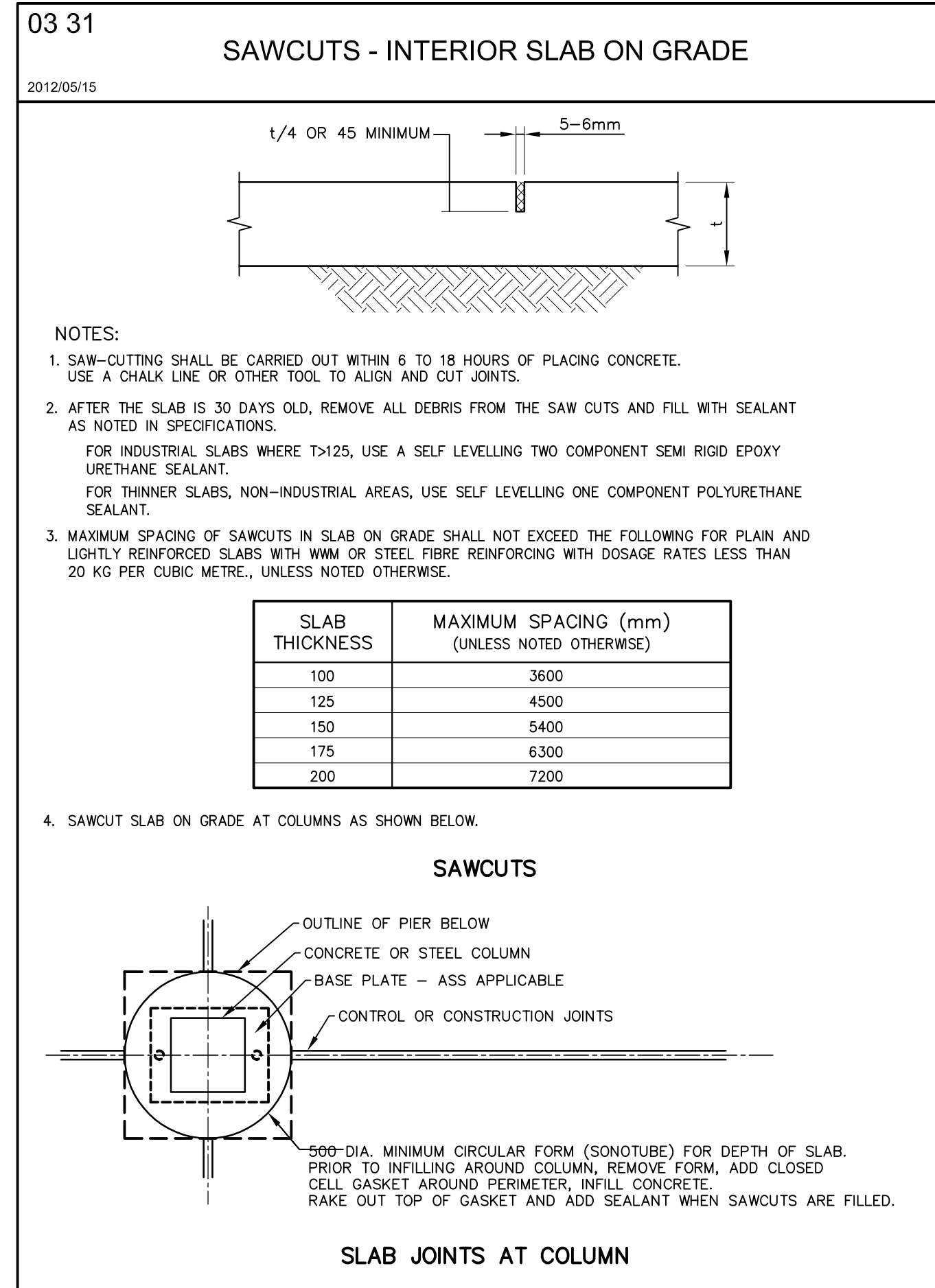
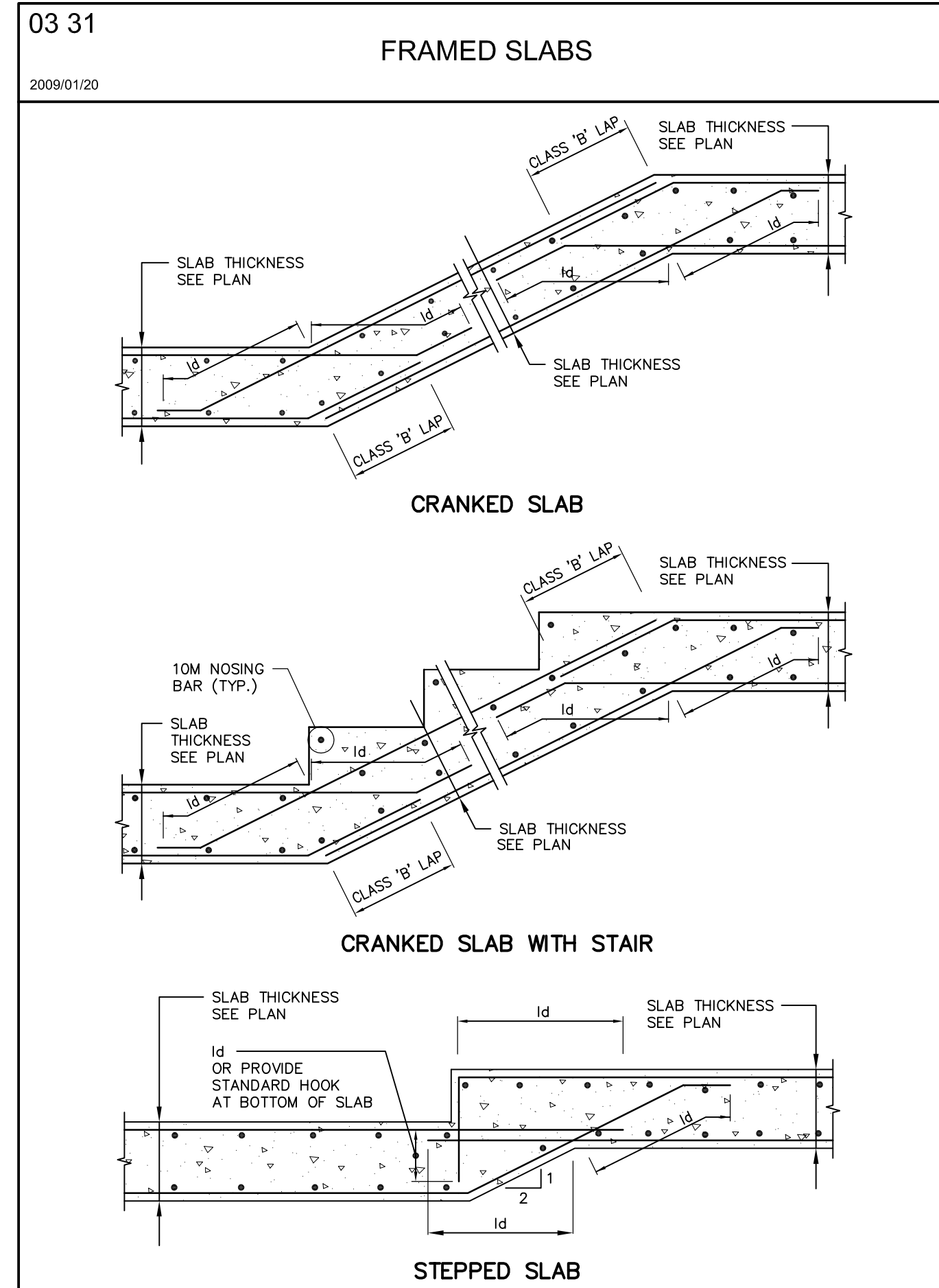
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Drawn By				Checked By				Designed By				Checked By				Date		Drawing No.	
T.T.				M.H.				M.H.				M.H.				15/02/28		A105	
Project No.				Contract No.				Revision No.											
MSA143810.0062				MSA143810.0062				2											
Scale: AS NOTED																			

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8348 WELLINGTON ROAD 124, P.O. BOX 700  
ROCKWOOD, ON  
N0B 2K0

Drawn by  
**T.T.**

Checked  
**M.H.**

Designed  
**M.H.**

Checked  
**M.H.**

Date  
15/02/28

Project No.  
MSA143810.0062

Contract No.  
MSA143810.0062

Revision No.  
2

Scale  
NOT TO SCALE

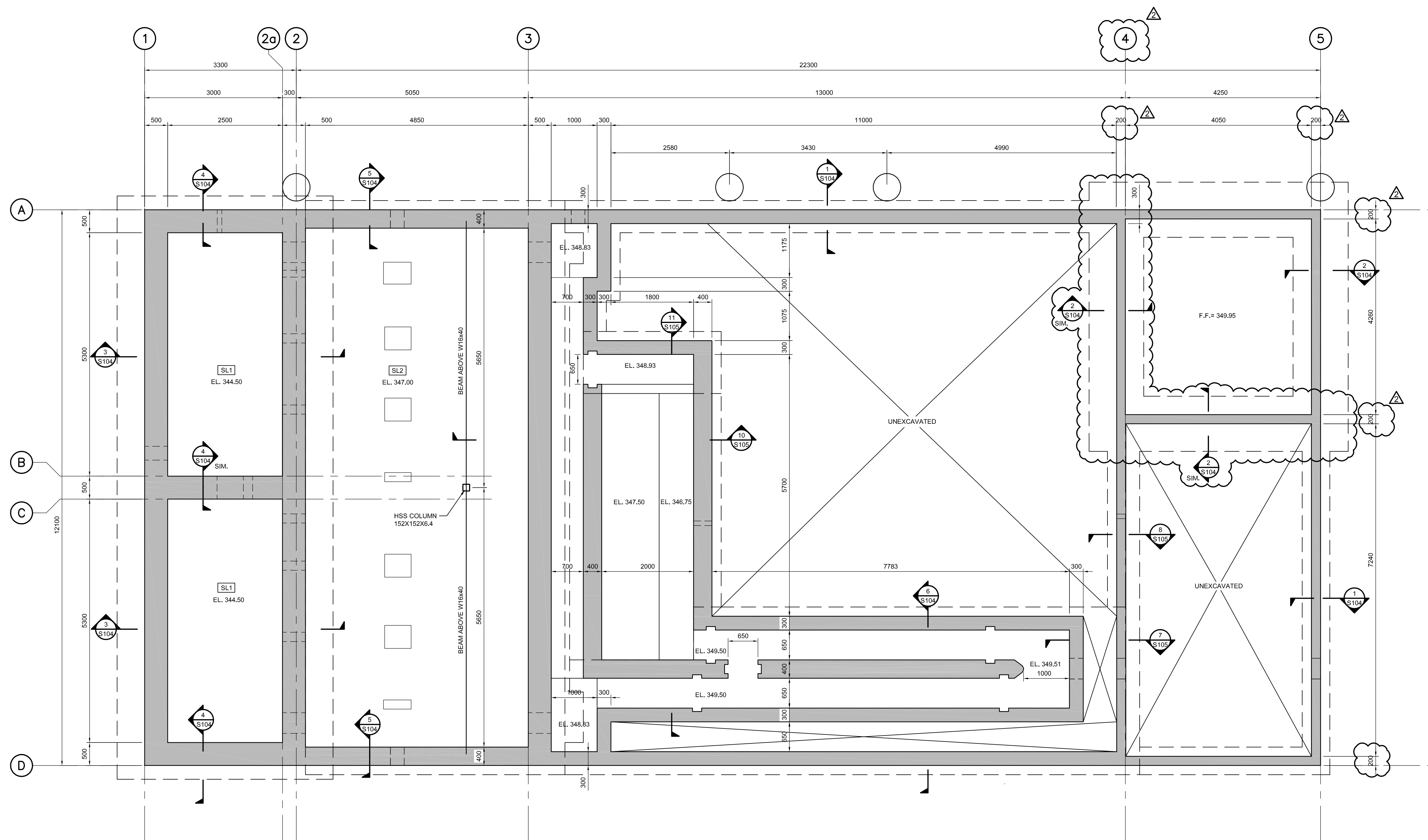
Drawing No.  
**SD02**

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Client  
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STRUCTURAL TYPICAL DETAILS

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1 FOUNDATION STRUCTURE  
S101 SCALE 1:50

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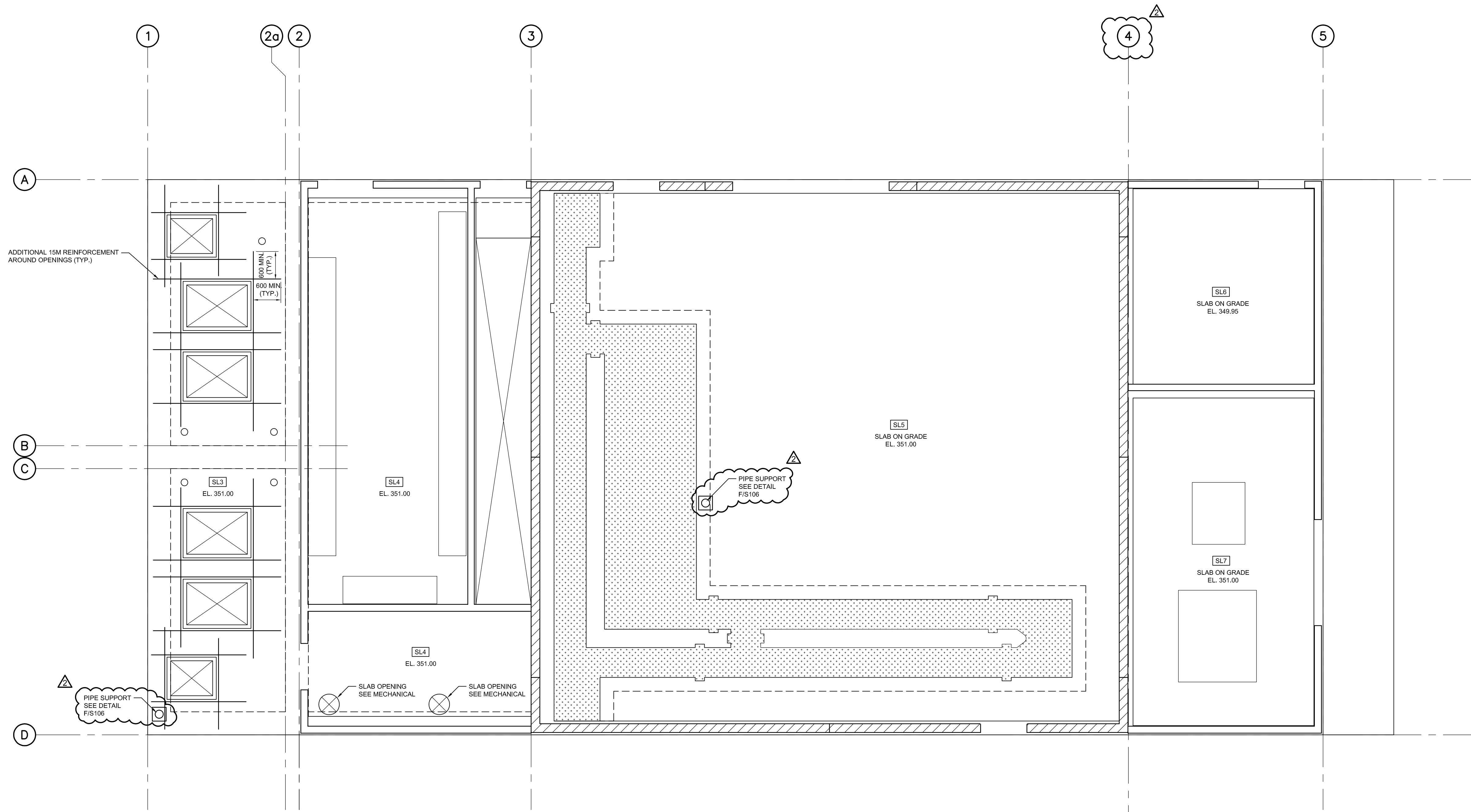
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T.T.				M.H.				M.H.				15/02/28				S101			
Project No. MSA143810.0062				Contract No. MSA143810.0062				Revision No. 2											
Scale AS NOTED																			

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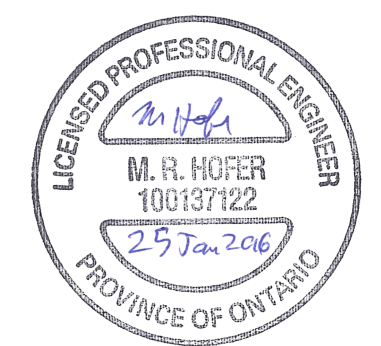


SLAB SCHEDULE	
SL1	WET WELL SLAB DETAILS -550mm THICK SLAB -COVER AS PER DETAIL -25M @ 150mm O.C., E.W. T&B
SL2	METER/VALVE ROOM SLAB DETAILS -450mm THICK SLAB -COVER AS PER DETAIL -15M @ 150mm O.C., E.W. T&B
SL3	EXTERIOR SLAB DETAILS: -300mm THICK SLAB -60mm COVER TO ALL FACES -15M BARS @ 200mm O.C. E.W. T&B -ADDITIONAL REINFORCEMENT AROUND HOLES AS SHOWN
SL4	INTERIOR SLAB DETAILS: -300mm THICK SLAB -60mm COVER TO ALL FACES -15M BARS @ 400mm O.C. E.W. T&B -REINFORCEMENT LAYOUT FROM EXTERIOR SLAB TO EXTEND MINIMUM 600mm INTO INTERIOR SLAB.
SL5	PROCESS ROOM SLAB DETAILS: -150mm THICK SLAB -CONCRETE FLOOR SLAB -REINFORCED WITH 152X152 MW47.6/MW47.6 WWM
SL6	CHEMICAL ROOM SLAB DETAILS: -150mm CONCRETE FLOOR SLAB -REINFORCED WITH 152X152 MW47.6/MW47.6 WWM
SL7	BLOWER UTILITY ROOM SLAB DETAILS: -150mm CONCRETE FLOOR SLAB -REINFORCED WITH 152X152 MW47.6/MW47.6 WWM

1 MAIN FLOOR STRUCTURE  
S102 SCALE 1:50

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 ROCKWOOD, ON  
 N0B 2K0

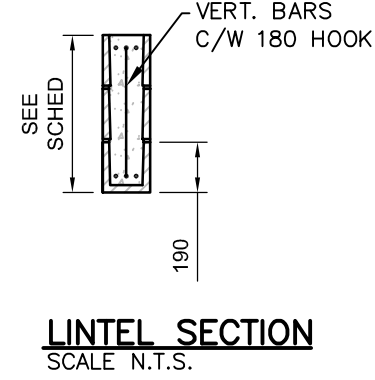
ALMA ST. WASTEWATER PRETREATMENT FACILITY UPGRADES					
STRUCTURAL MAIN FLOOR FRAMING & SUPPORT					
Drawn	Checked	Designed	Checked	Date	Drawing No.
T.T.	M.H.	M.H.	M.H.	15/02/28	S102
Project No.	Contract No.	Revision No.			
MSA143810.0062	MSA143810.0062	2			
Scale	AS NOTED				



MASONRY LINTEL SCHEDULE						
MARK	MASONRY THICKNESS	MASONRY HEIGHT	REINFORCING (HORIZ.)	REINFORCING (VERT.)	END BEARING LENGTH (MIN)	REMARKS
ML1	190	390	1-15M T&B	10M@200	200	FIRST CELL BEYOND LINTEL REINFORCED W/ 1-15M VERTICAL BAR
ML2	190	990	2-20M T&B 1-15M MD	10M@200	600	FIRST 3 CELLS BEYOND LINTEL REINFORCED W/ 1-15M VERTICAL BAR

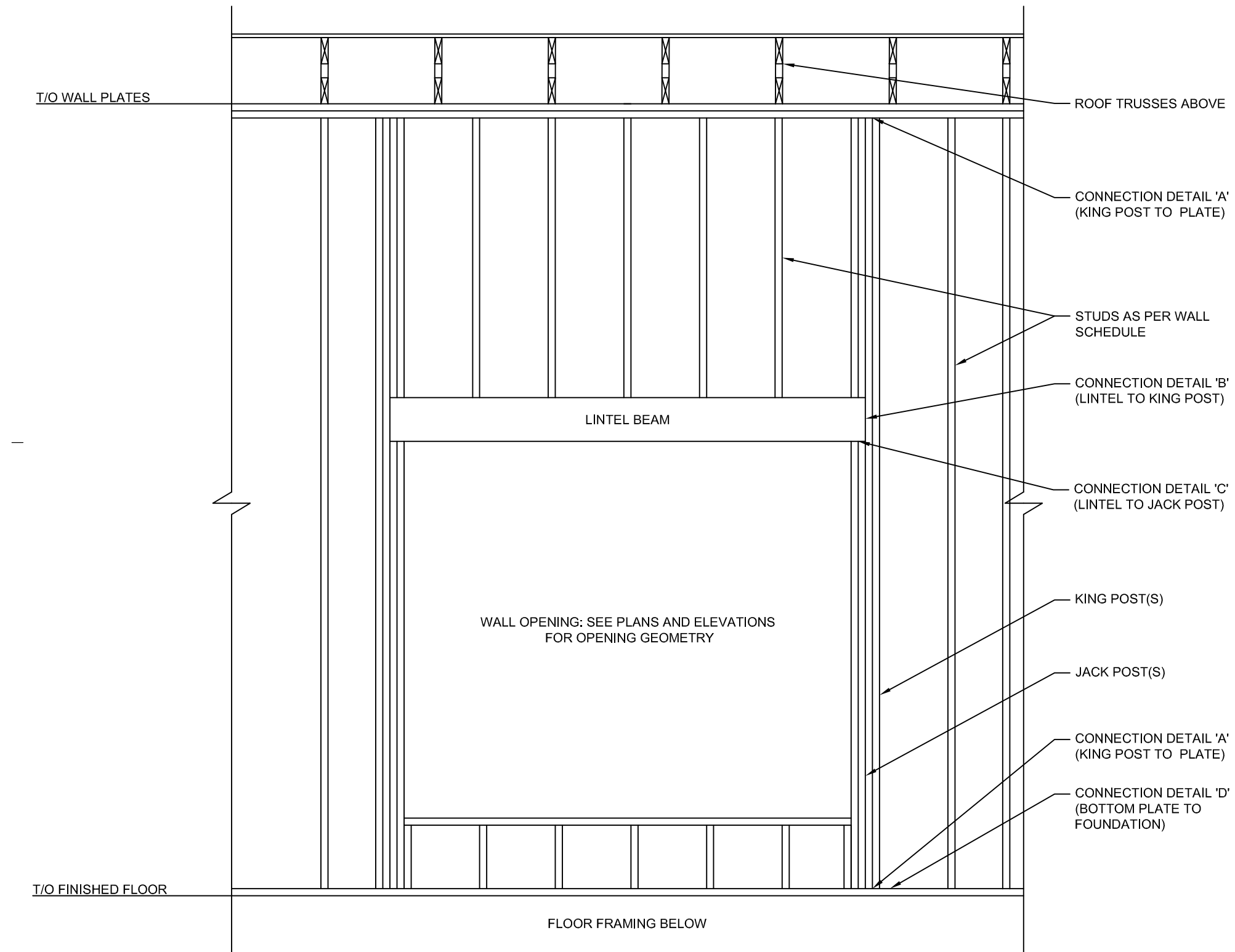
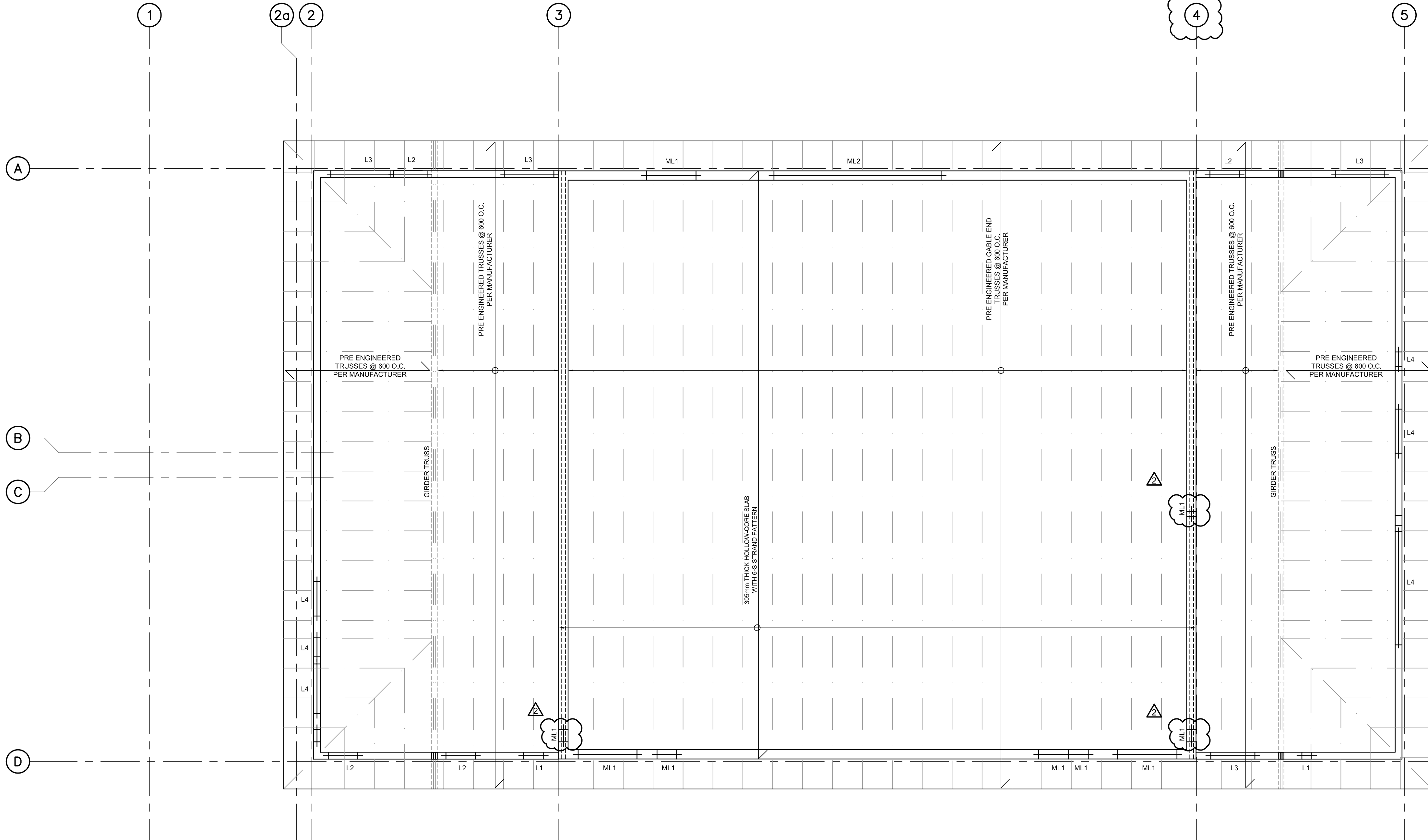
NOTES:

1. PROVIDE LINTEL OVER OPENINGS FOR ALL DOORS, WINDOWS, DUCTS ETC, ACCORDING TO THIS SCHEDULE UN.
2. PROVIDE A MIN. OF 200MM SOLID BEARING AT EACH END OF MASONRY LINTEL UNLESS OTHERWISE NOTED.
3. ALL CHANNEL BLOCK LINTELS FILLED WITH COARSE GROUT.
4. REINFORCING STEEL TO CSA G30.18, GRADE 400.
5. FULL HEIGHT SOLID MASONRY TO UNDERSIDE OF LINTEL.
6. TYPE 'S' MORTAR.
7. BLOCK STRENGTH TO BE 15 MPA ON GROSS AREA MINIMUM.
8. CORES IMMEDIATELY BELOW LINTEL BEARING SURFACE SHALL BE FILLED WITH NON-SHRINK GROUT WITH MINIMUM COMPRESSIVE STRENGTH EQUAL TO 20MPA AT 28 DAYS.



WOOD LINTEL SCHEDULE						
	MEMBER	SUPPORT	CONNECTION DETAIL 'A'	CONNECTION DETAIL 'B'	CONNECTION DETAIL 'C'	CONNECTION DETAIL 'D'
L1	3-38x140 SPF No. 2	1 JACK & 1 KING 38x140 POST SPF No. 1/2	3-83 mm COMMON NAILS (OPTIONAL AS TOE-NAIL)	4-83 mm COMMON NAILS (OPTIONAL AS TOE-NAILS)	2-LSTA9 SIMPSON STRONG-TIE STRAPS (EACH END)	16Ø POWER-STUD ANCHOR BY POWERS FASTENERS w/ 100 EMBEDMENT (MIN) ADJACENT TO POSTS
L2	3-38x184 SPF No. 2	2 PLY JACK & 2 PLY 38x140 KING POSTS SPF No. 2	4-83 mm COMMON NAILS (OPTIONAL AS TOE-NAILS)	4-100 mm COMMON NAILS OR 4-83 mm COMMON TOE-NAILS	3-LSTA9 SIMPSON STRONG-TIE STRAPS (EACH END)	16Ø POWER-STUD ANCHOR BY POWERS FASTENERS w/ 100 EMBEDMENT (MIN) ADJACENT TO POSTS
L3	3-38x235 SPF No. 2	2 PLY JACK & 3 PLY 38x140 KING POSTS SPF No. 2	6-83 mm COMMON NAILS OR 4-83 mm COMMON TOE-NAILS	4-83 mm COMMON TOE-NAILS	3-LSTA9 SIMPSON STRONG-TIE STRAPS (EACH END)	HTT4 SIMPSON STRONG-TIE FASTENED TO KING STUDS w/ 18-75 mm COMMON NAILS AND TO FOUNDATION w/ 16Ø POWER-STUD ANCHOR BY POWERS FASTENERS 100 EMBEDMENT (MIN)
L4	3-38x194 SPF No. 2 12.5 mm PLYWOOD BETWEEN PLIES 38x140 SPF No. 2 HORIZONTAL PLATES T&B	2 PLY JACK & 4 PLY 38x140 KING POSTS SPF No. 2	8-83 mm COMMON NAILS (OPTIONAL AS TOE-NAILS)	4-100 mm COMMON NAILS OR 8-83 mm COMMON TOE-NAILS	1-LSTA9 SIMPSON STRONG-TIE STRAPS (EACH END)	16Ø POWER-STUD ANCHOR BY POWERS FASTENERS w/ 100 EMBEDMENT (MIN) ADJACENT TO POSTS

EXTERIOR SHEATHING NOTES:  
 -FASTEN TO BOTTOM PLATE w/ 54 mm COMMON NAILS @ 50 mm O.C. OVER WIDTH OF OPENING AND EXTENDING 300 mm EACH SIDE OF BUILT-UP COLUMNS  
 -FASTEN TO PLIES OF JACK STUDS w/ 64 mm COMMON NAILS @ 150 mm O.C.  
 -NO HORIZONTAL JOINTS WITHIN 900 mm OF BOTTOM PLATE  
 -NO VERTICAL JOINTS WITHIN 300 mm OF JACK STUDS



A  
S103 SCALE: 1:25  
TYPICAL WOOD LINTEL FRAMING ELEVATION

1  
S103 SCALE: 1:50  
ROOF FRAMING & SUPPORT

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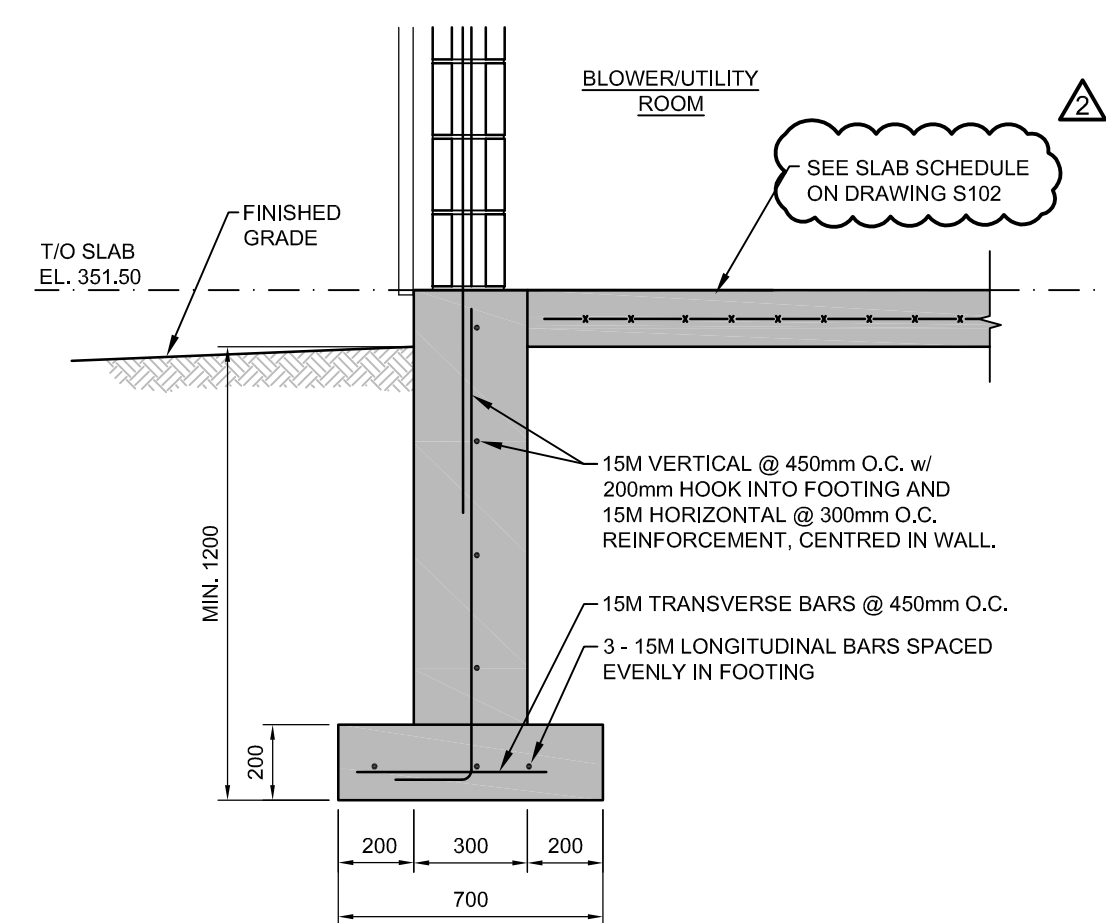
**BURNSIDE**  
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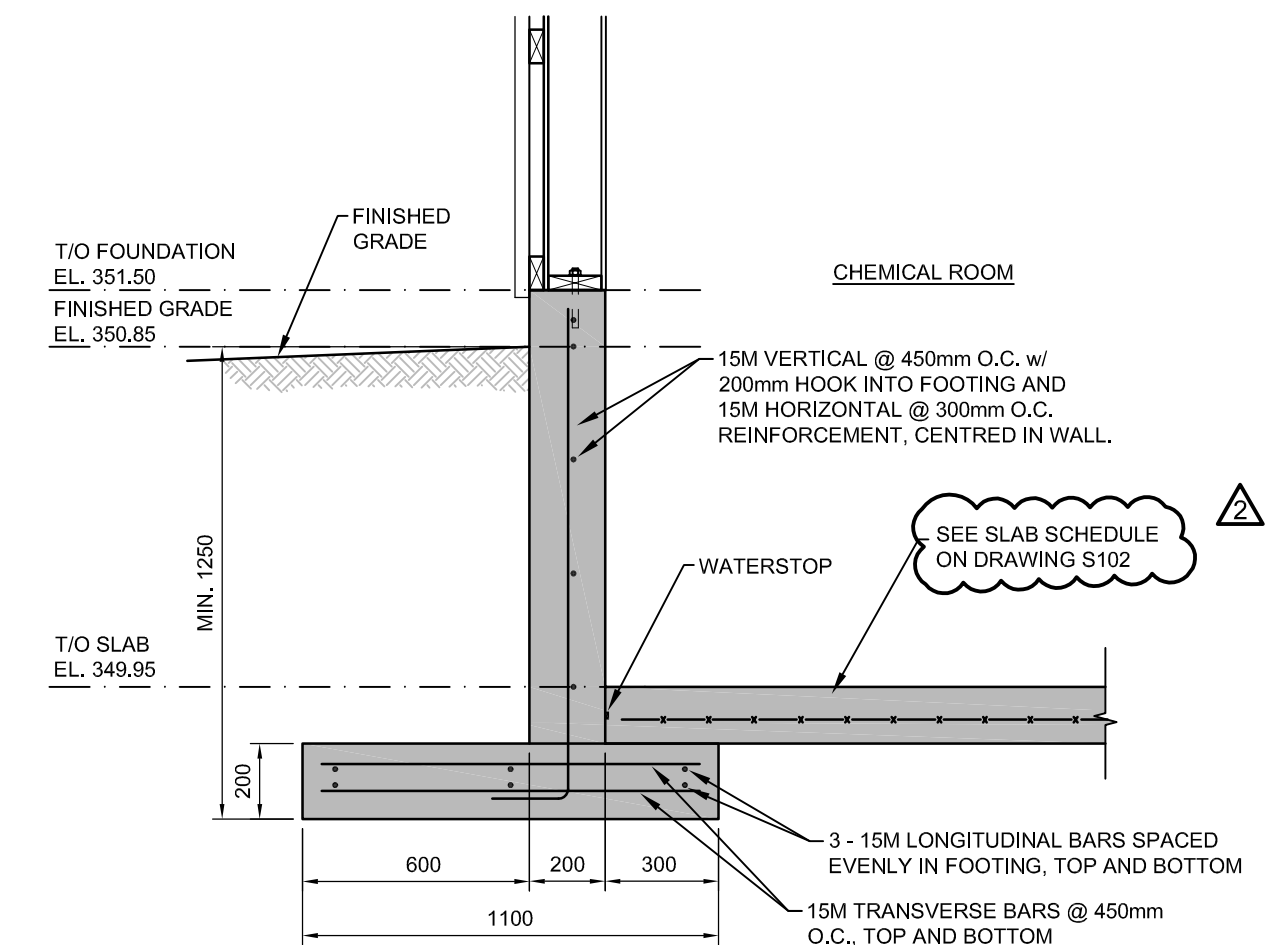
Drawn by:  
**ALMA ST. WASTEWATER PRETREATMENT FACILITY UPGRADES**  
 STRUCTURAL ROOF FRAMING & SUPPORT

Drawn	Checked	Designed	Checked	Date	Drawing No.
T.T.	M.H.	M.H.	M.H.	15/02/28	S103
Project No.	Contract No.	Revision No.			
MSA143810.0062	MSA143810.0062	2			
Scale	AS NOTED				

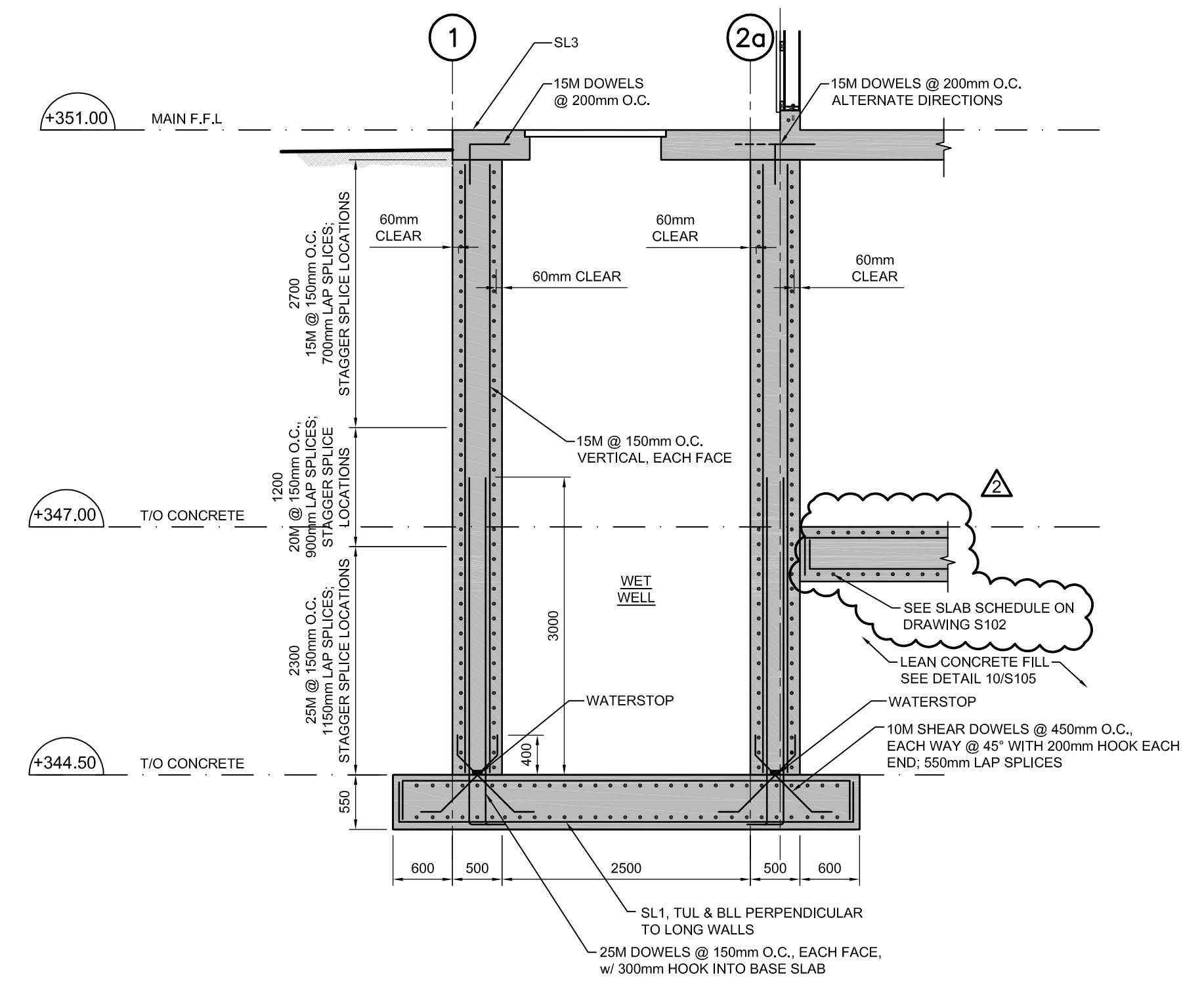
FOR TENDER



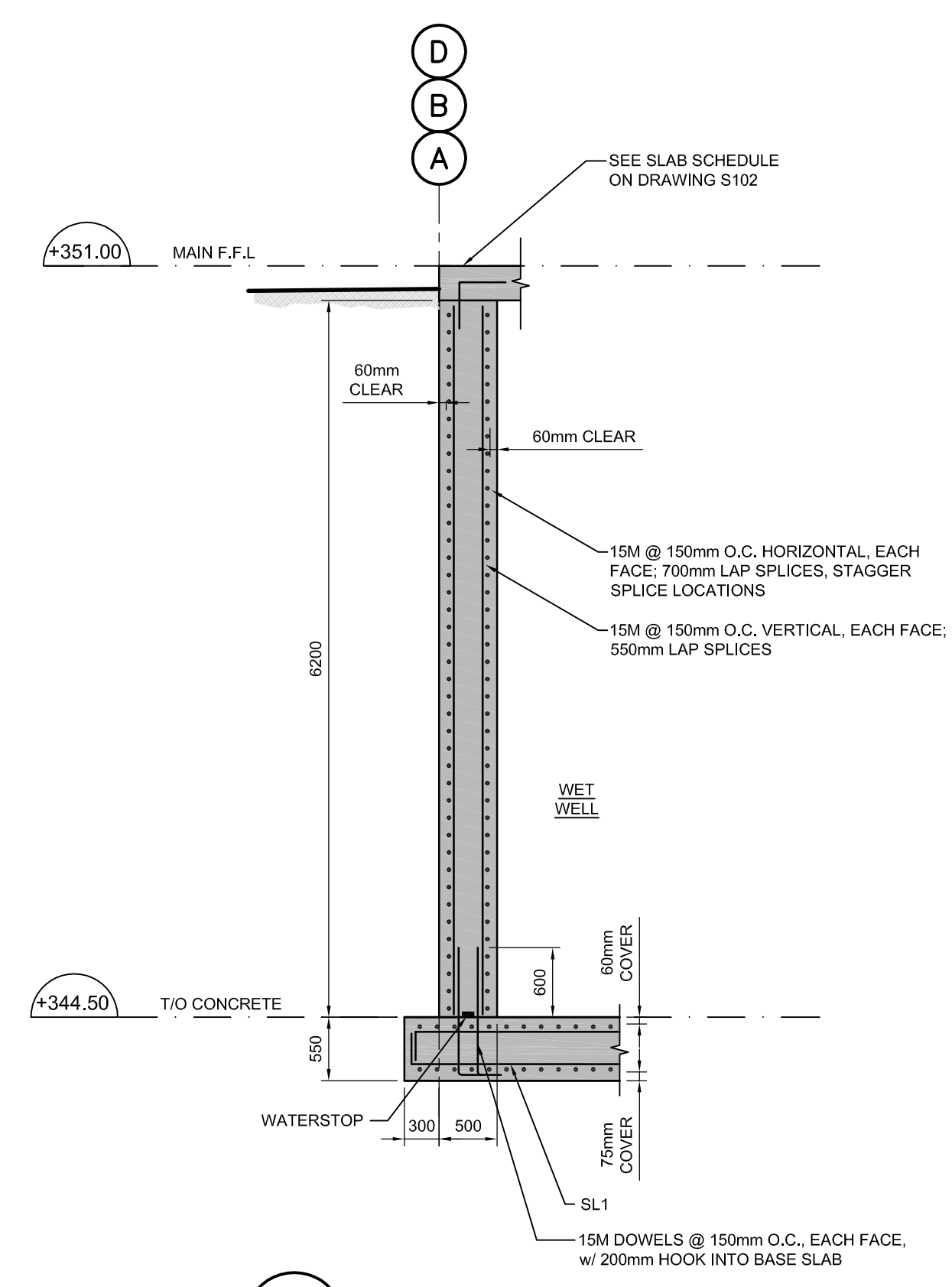
**1** PROCESS ROOM FOUNDATION WALLS  
S104 SCALE 1:20



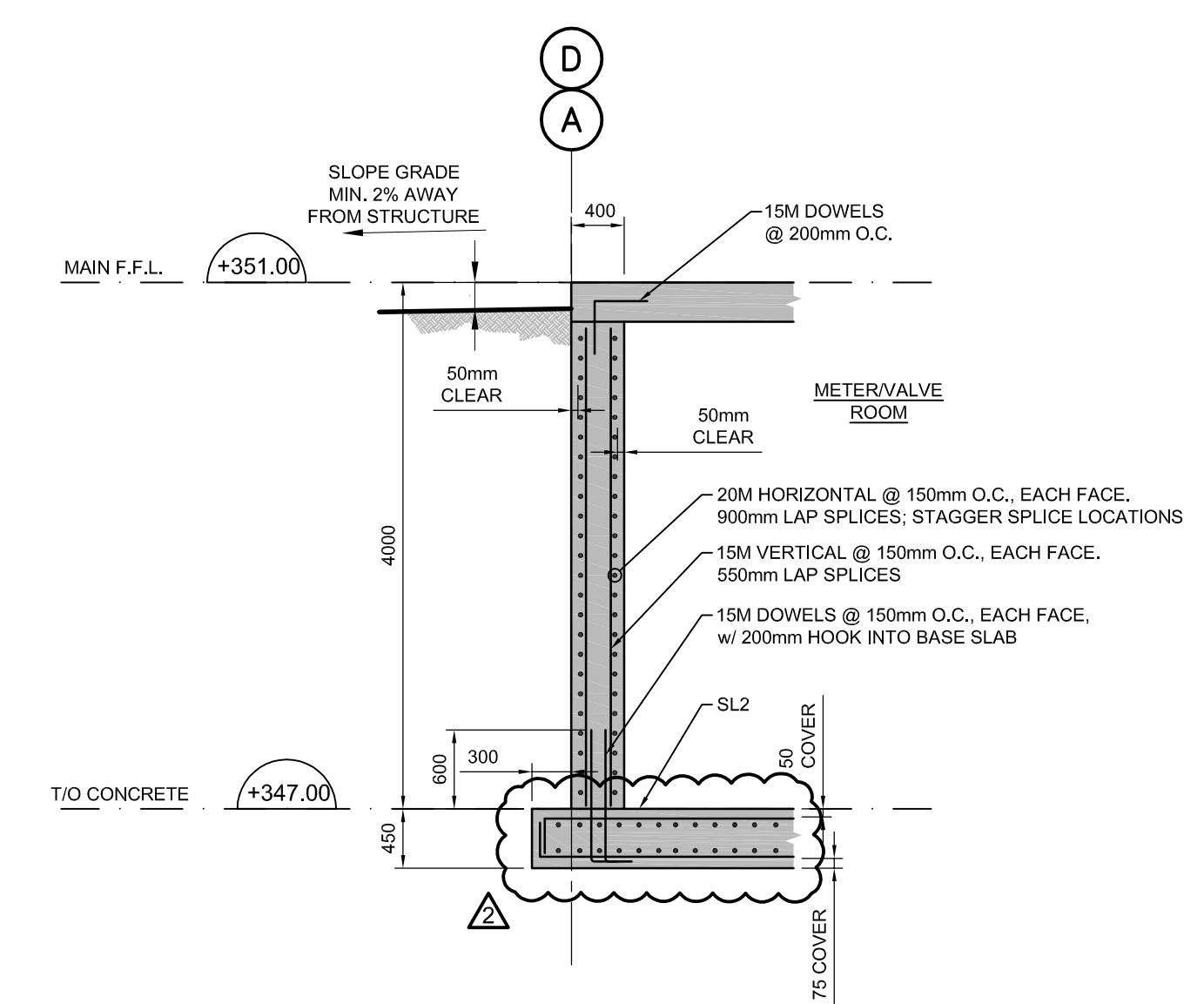
**2** CHEMICAL ROOM FOUNDATION WALLS  
S104 SCALE 1:20



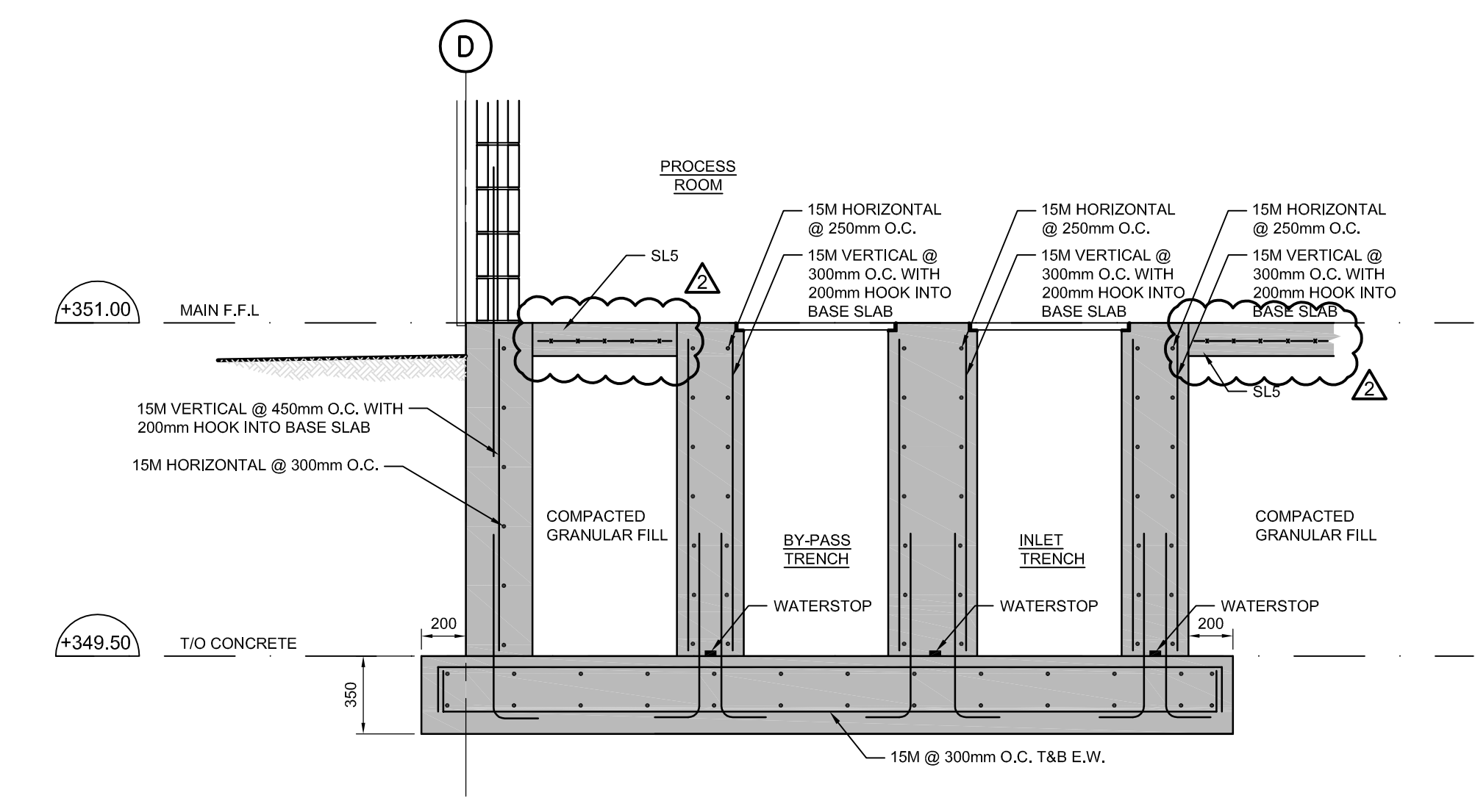
**3** WET WELL LONG WALL DETAILS  
S104 SCALE 1:50



**4** WET WELL SHORT WALL DETAILS  
S104 SCALE 1:50



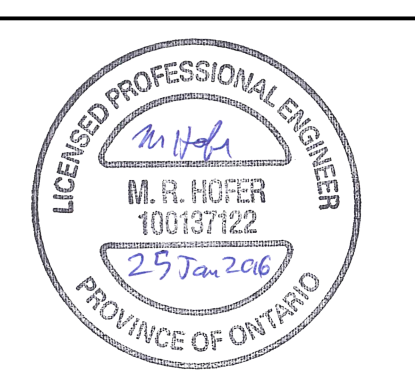
**5** METER ROOM EXTERIOR FOUNDATION WALL  
S104 SCALE 1:50



**6** PROCESS ROOM INLET & BYPASS TRENCH  
S104 SCALE 1:25

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No.	Issue / Revision	Date	Auth.
1	ISSUED FOR 90% REVIEW	OCT. 2015	
2	ISSUED FOR TENDER	DEC. 2015	
3	REVISED AS PER ADDENDUM NO. 2	JAN. 2016	



FOR TENDER

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R.J. Burnside & Associates Limited  
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Guelph, Ontario, N1H 1C4  
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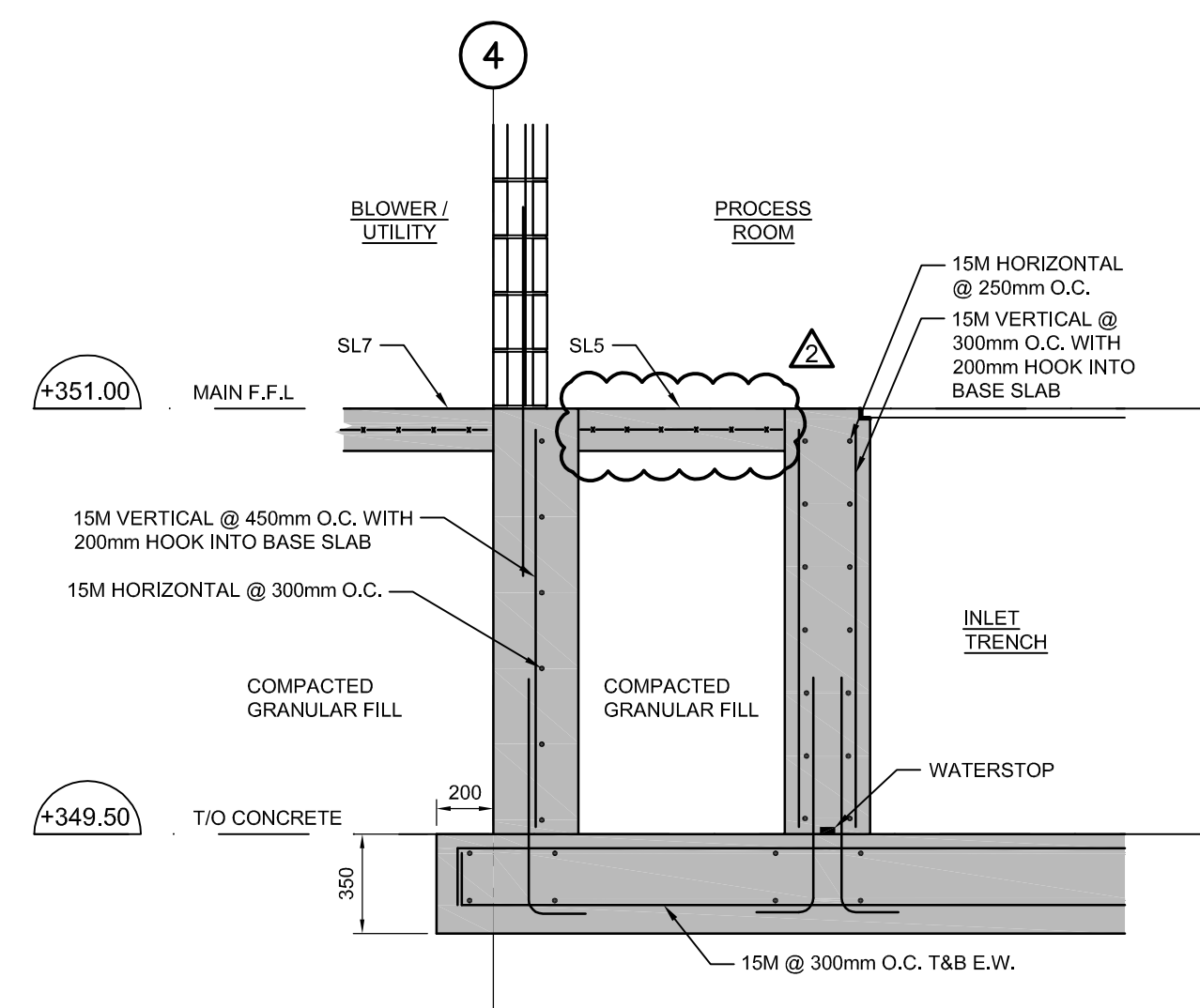
Client  
**TOWNSHIP OF GUELPH / ERAMOSA**  
8348 WELLINGTON ROAD 124, P.O. BOX 700  
ROCKWOOD, ON  
N0B 2K0

Drawn	Checked	Designed	Checked	Date	Drawing No.
T.T.	M.H.	M.H.	M.H.	15/02/28	<b>S104</b>

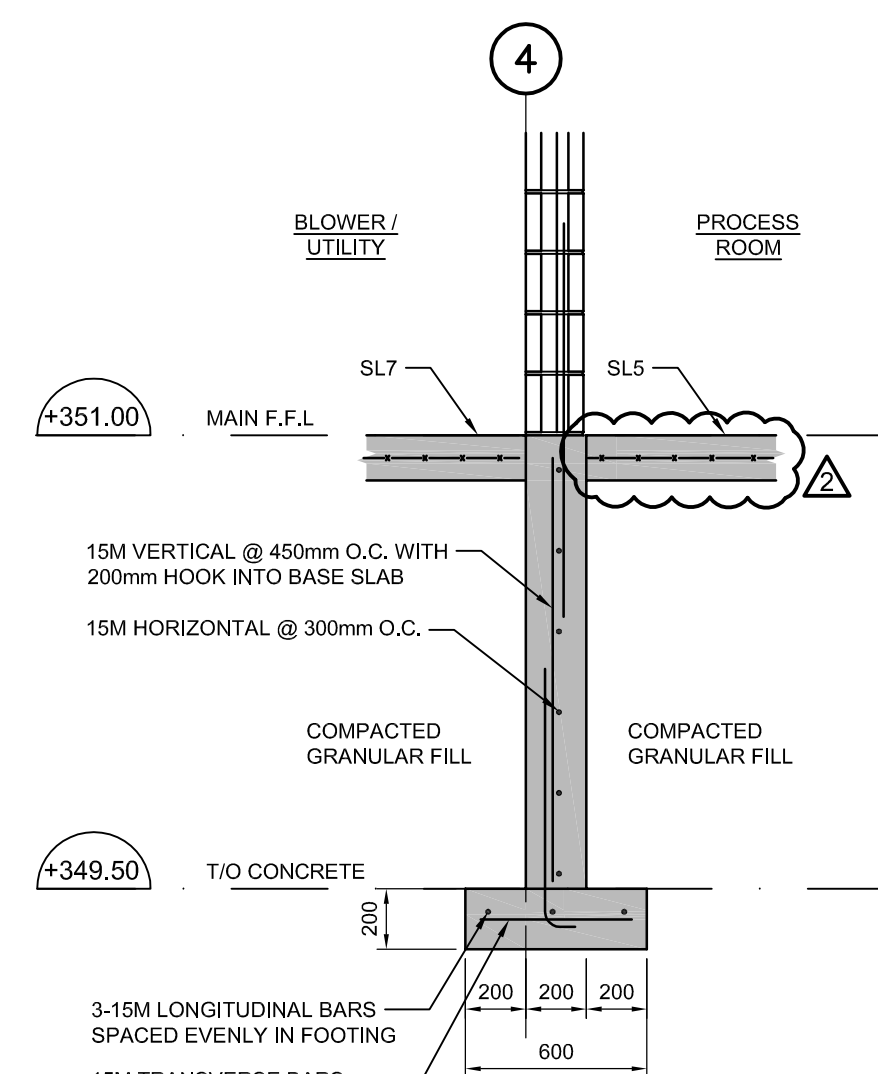
Project No. MSA143810.0062  
Contract No. MSA143810.0062  
Revision No. 2  
Scale AS NOTED

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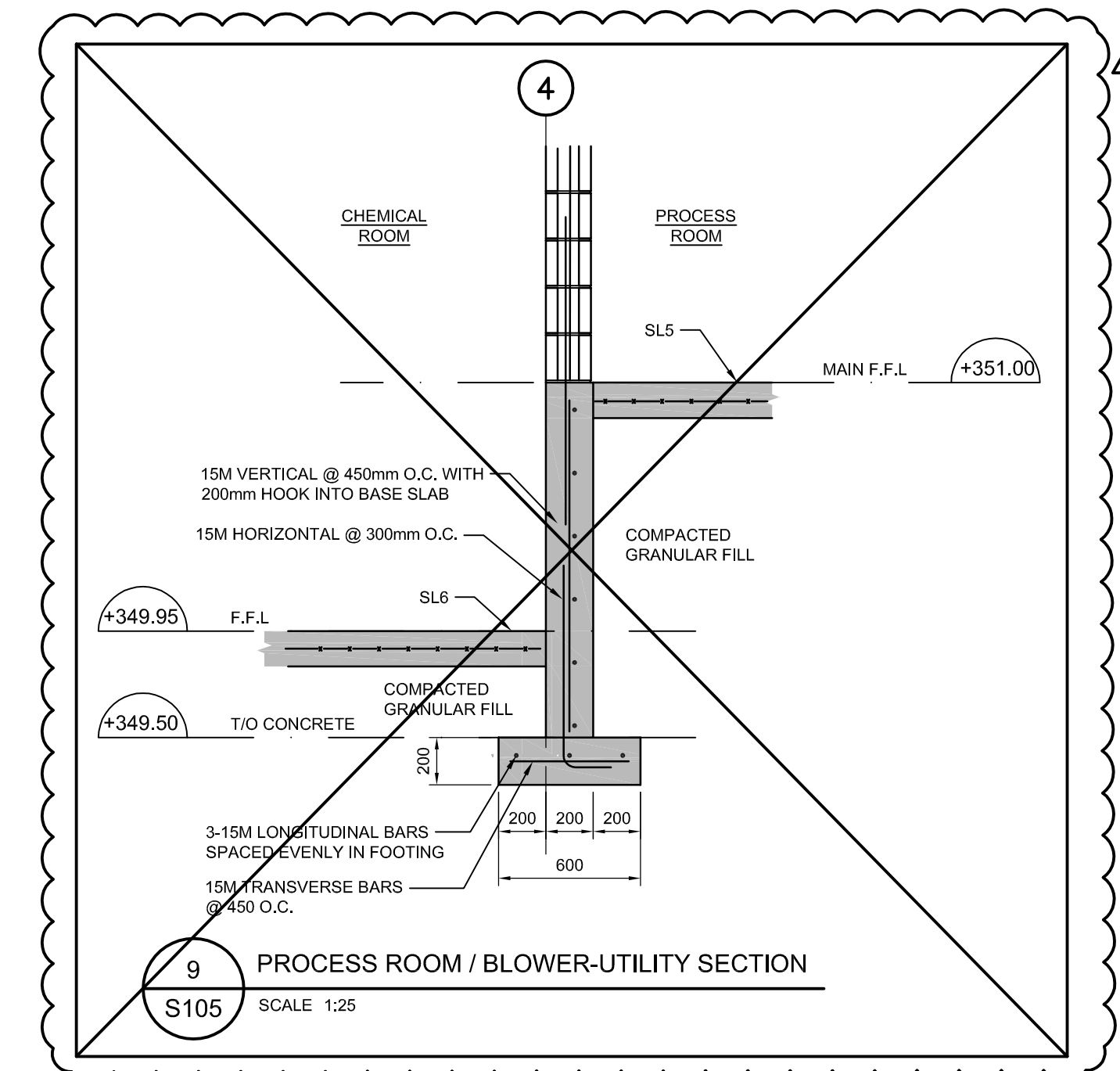




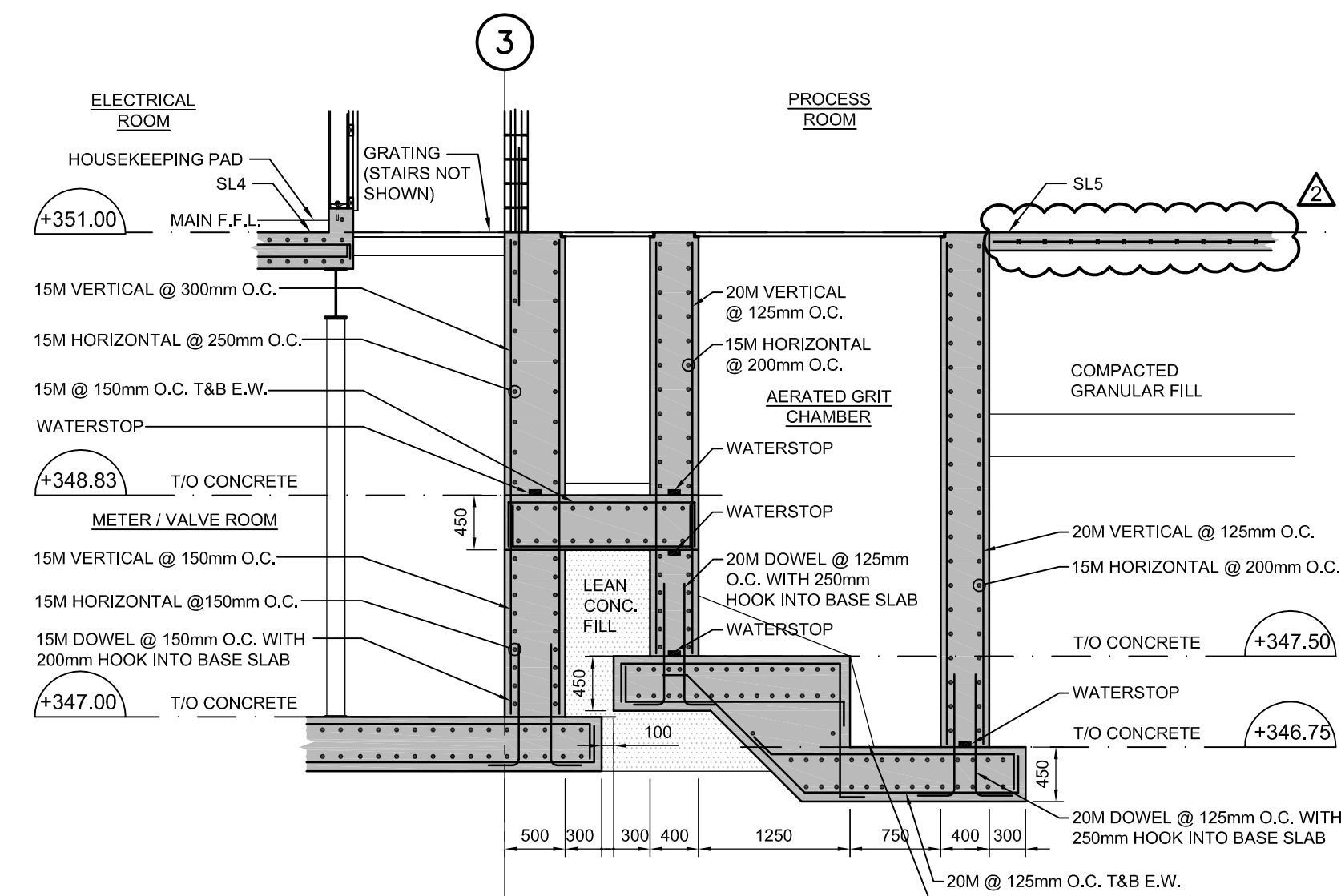
7 PROCESS ROOM / BLOWER-UTILITY SECTION  
S105 SCALE 1:25



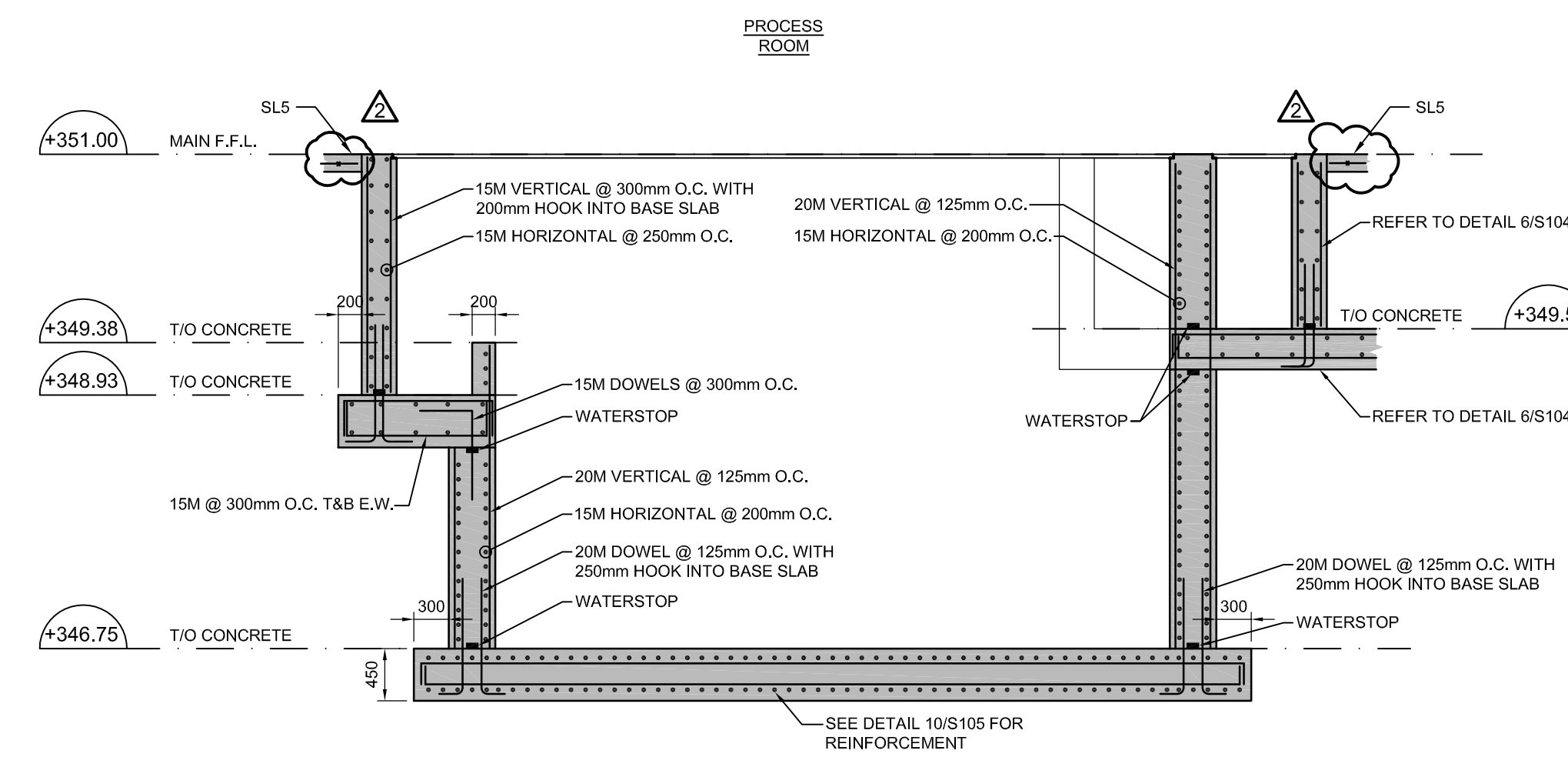
8 PROCESS ROOM / BLOWER-UTILITY SECTION  
S105 SCALE 1:25



9 PROCESS ROOM / BLOWER-UTILITY SECTION  
S105 SCALE 1:25



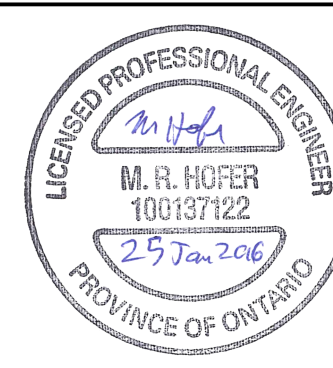
10 PROCESS ROOM AERATED GRIT CHAMBER SECTION  
S105 SCALE 1:50



11 PROCESS ROOM AERATED GRIT CHAMBER SECTION  
S105 SCALE 1:50

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3	REVISED AS PER ADDENDUM NO. 2	JAN. 2016	



FOR TENDER



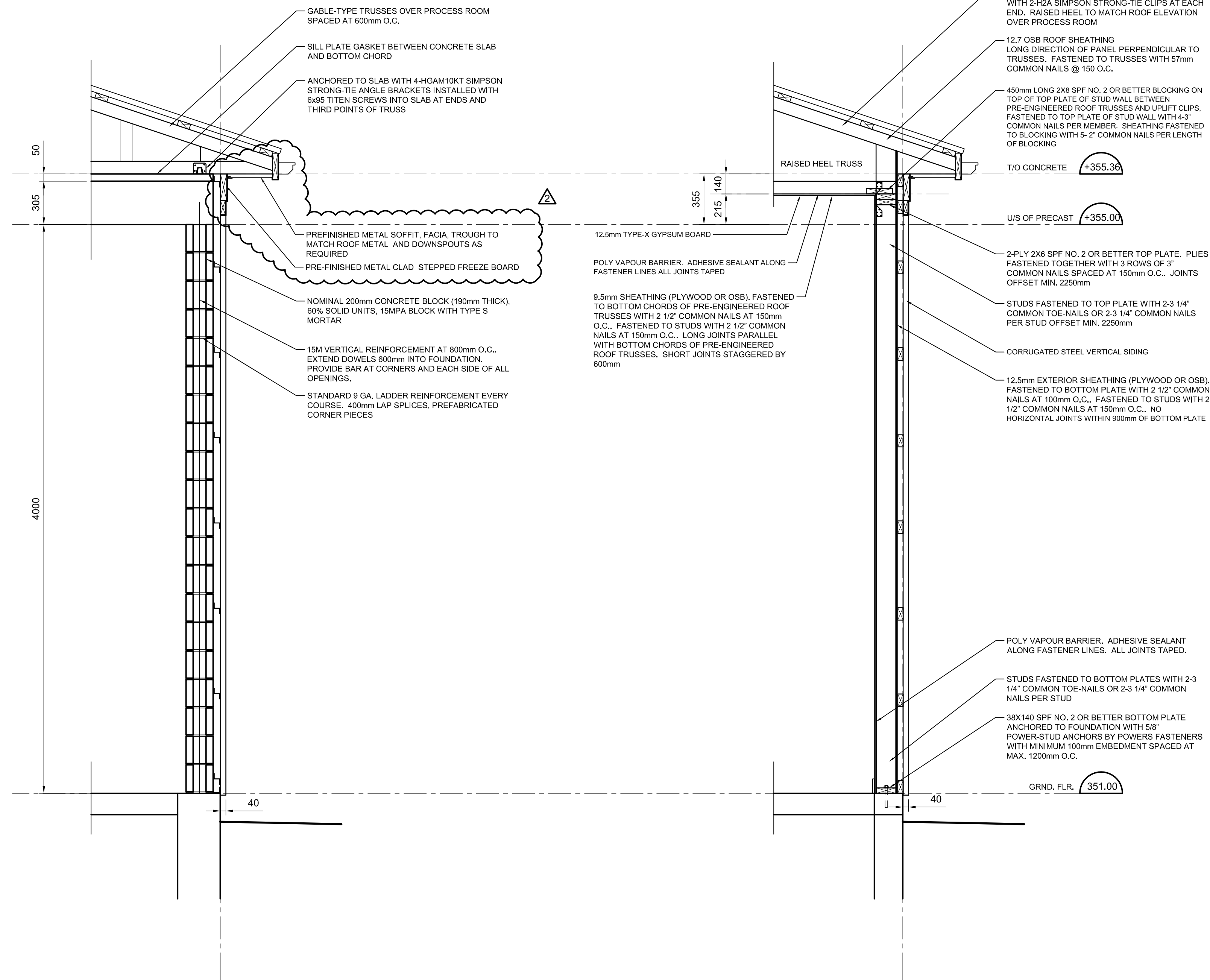
R. J. Burnside & Associates Limited  
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Client  
**TOWNSHIP OF GUELPH / ERAMOSA**  
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ROCKWOOD, ON  
N0B 2K0

Drawn by  
**ALMA ST. WASTEWATER PRETREATMENT FACILITY UPGRADES**  
STRUCTURAL FOUNDATION DETAILS

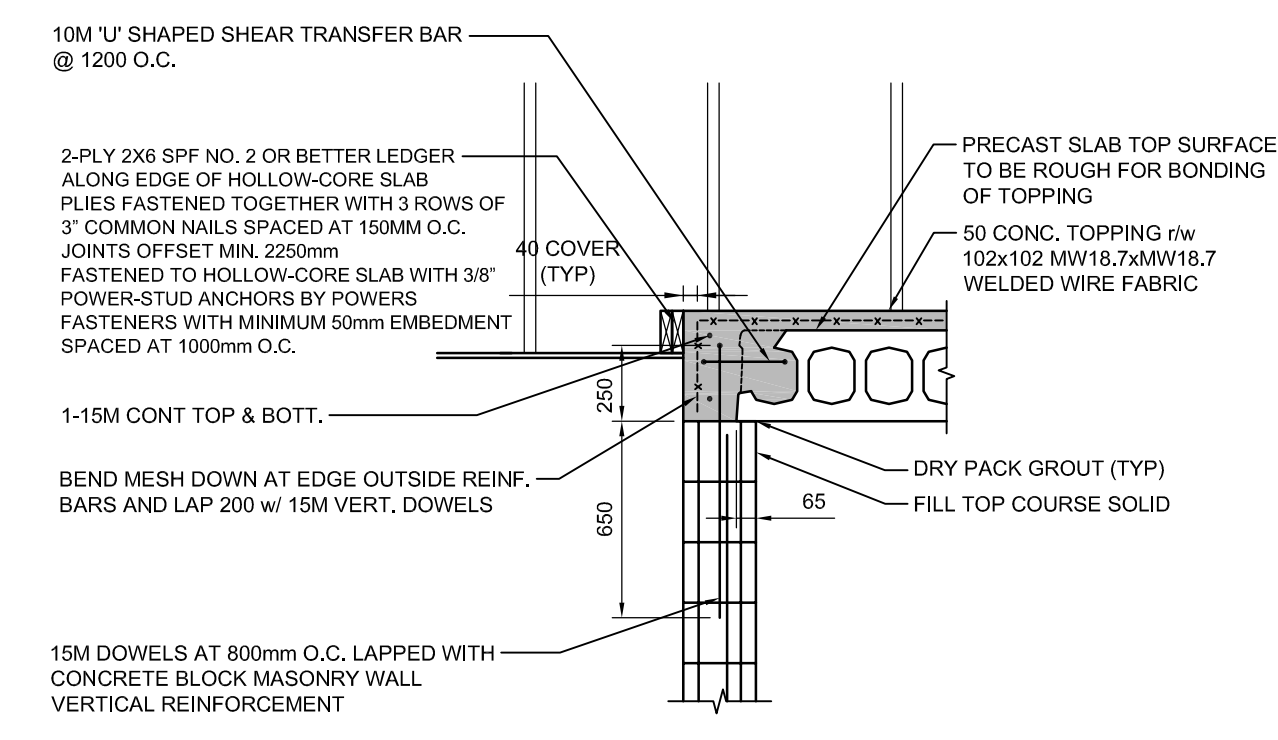
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T.T.	M.H.	M.H.	M.H.	15/02/28	S105
Project No.	Contract No.	Revision No.			
MSA143810.0062	MSA143810.0062	2			
Scale	AS NOTED				



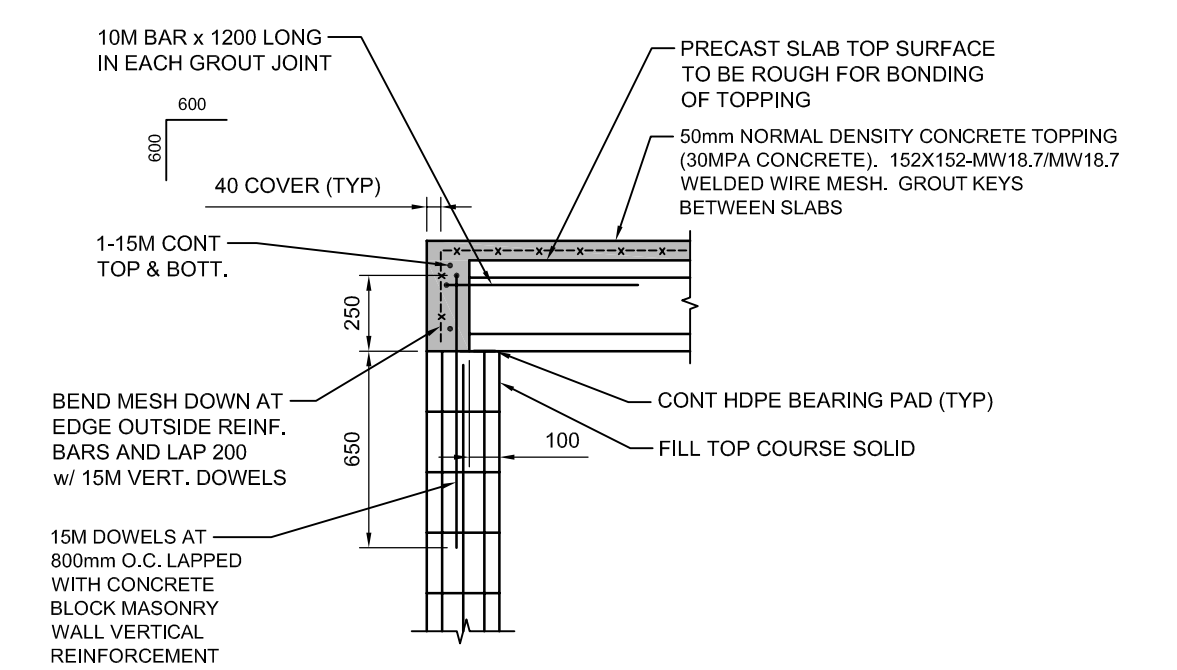


**1** TYPICAL WALL CONSTRUCTION  
S106 SCALE 1:20

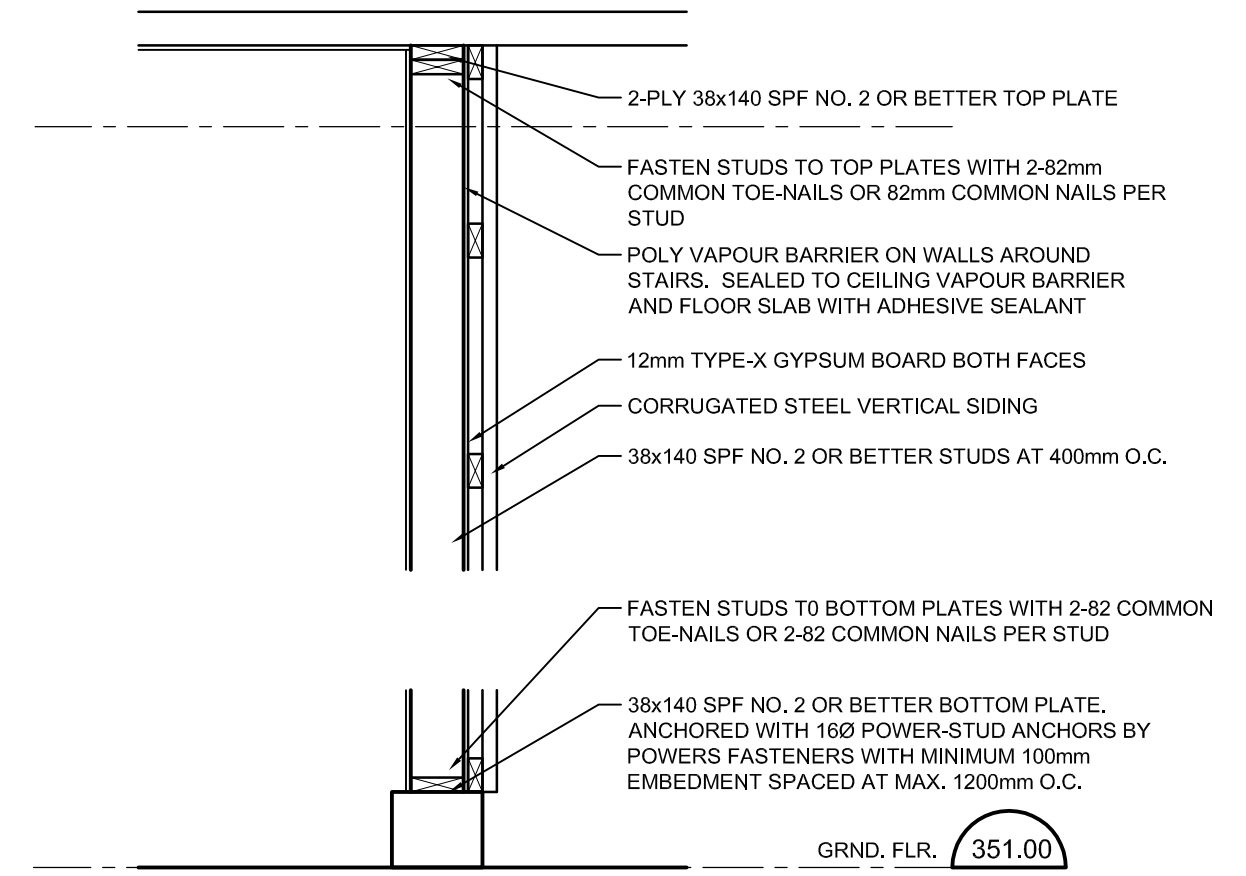
**2** TYPICAL WALL CONSTRUCTION  
S106 SCALE 1:20



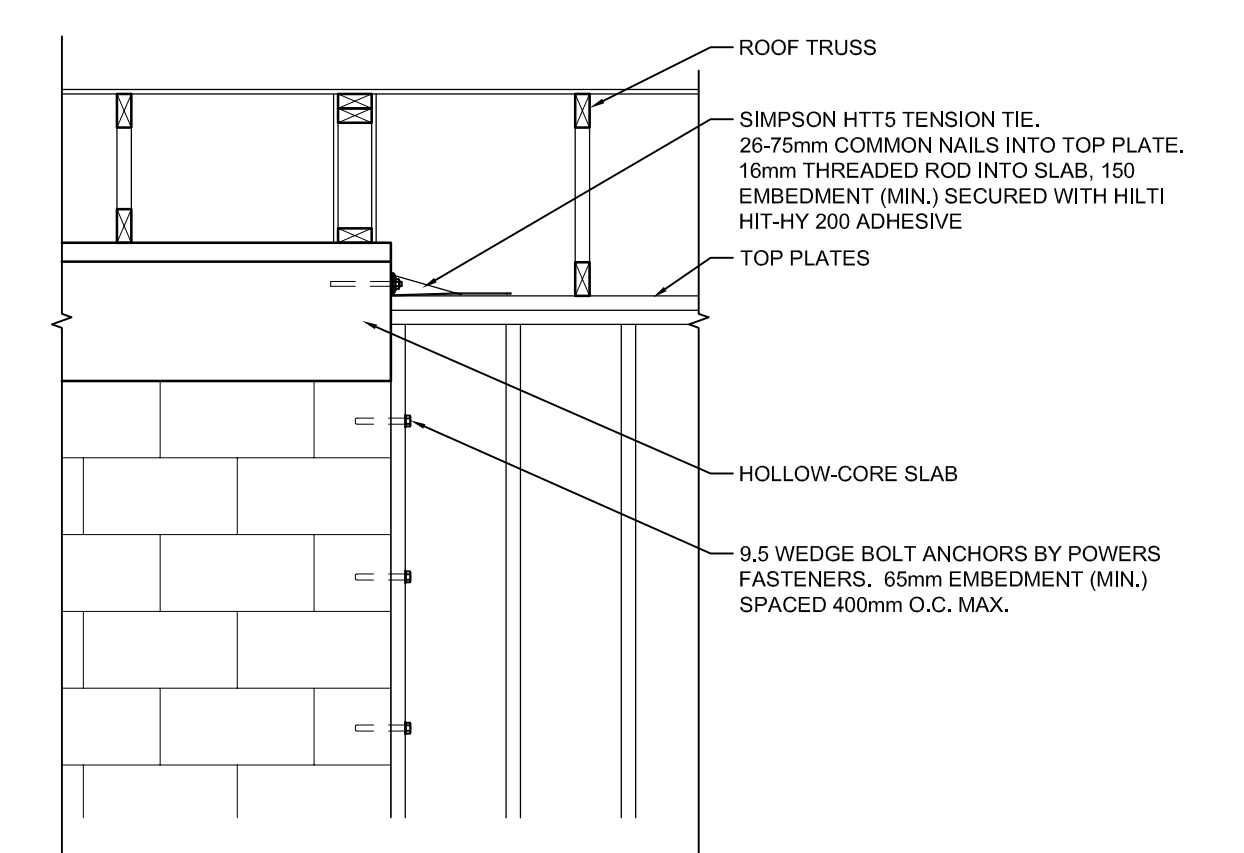
**A** PRECAST CONNECTION DETAIL  
S106 SCALE 1:25



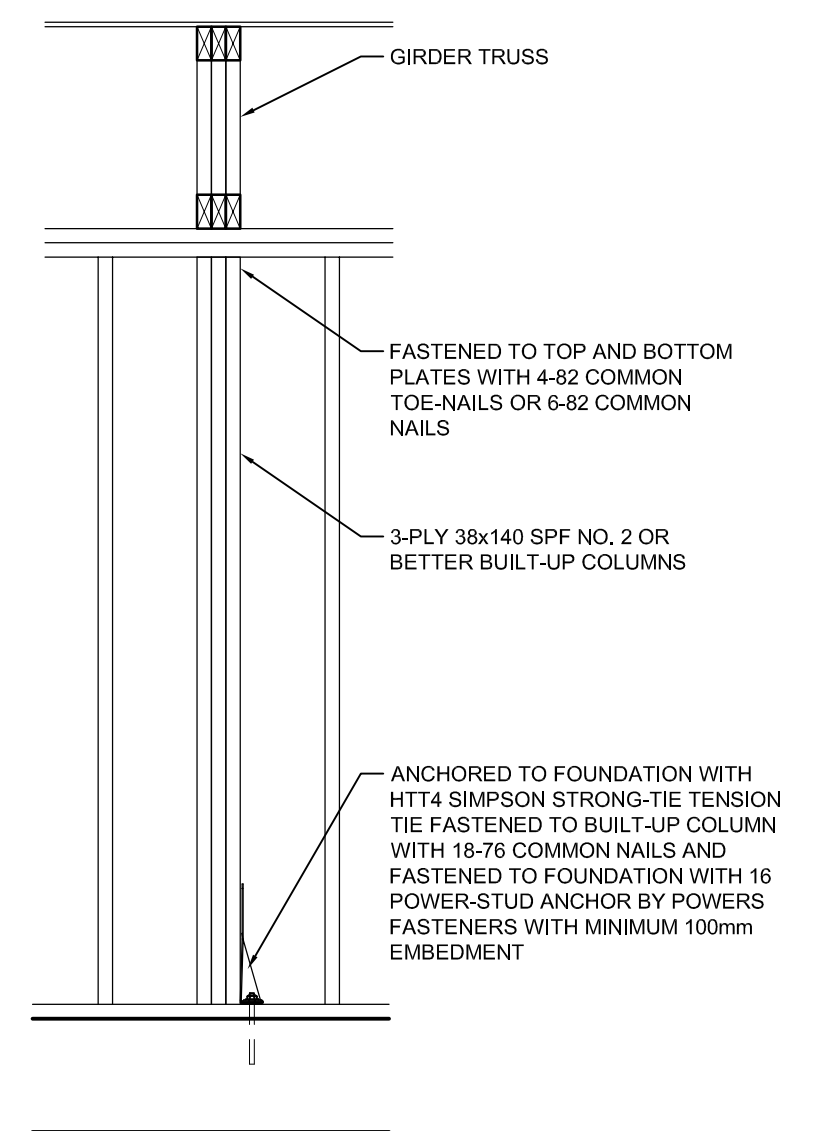
**B** PRECAST CONNECTION DETAIL  
S106 SCALE 1:25



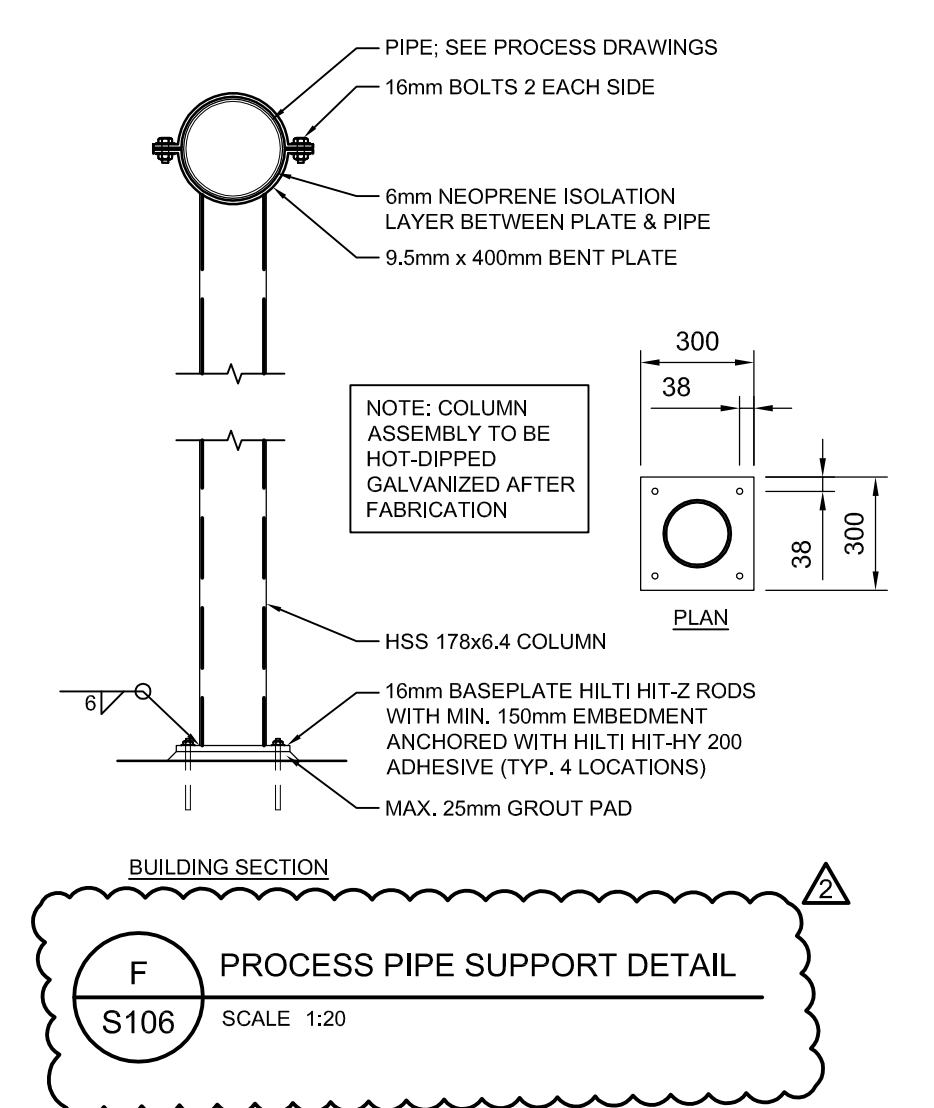
**C** WOOD FRAMED INTERIOR WALL DETAIL  
S106 SCALE 1:20



**D** TYPICAL WOOD STUD WALL CONNECTION TO CONCRETE BLOCK WALL  
S106 SCALE 1:20



**E** GIRDER TRUSS SUPPORT CONNECTIONS  
S106 SCALE 1:20



**F** PROCESS PIPE SUPPORT DETAIL  
S106 SCALE 1:20

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FOR TENDER

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Telephone (519) 823-4995  
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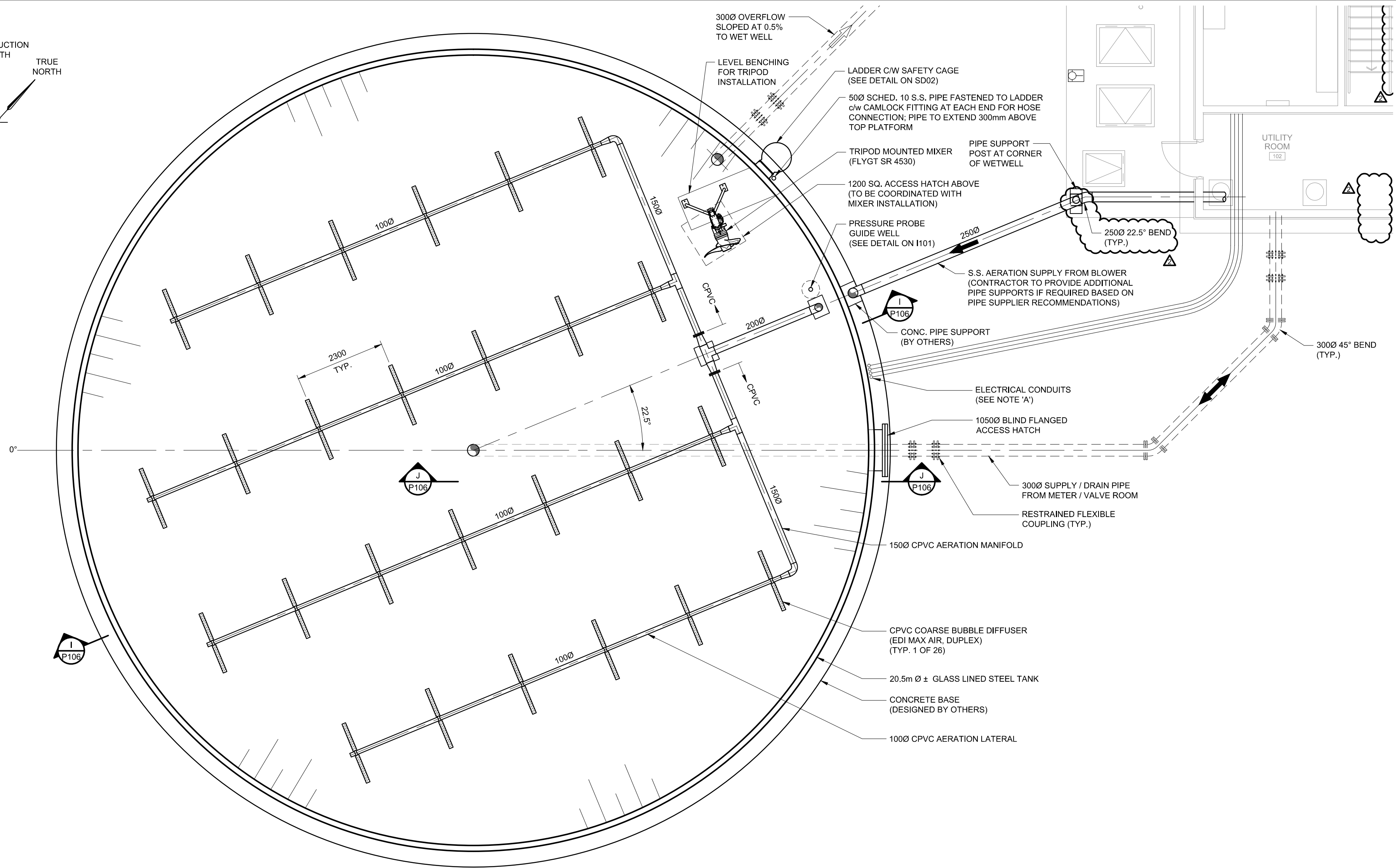
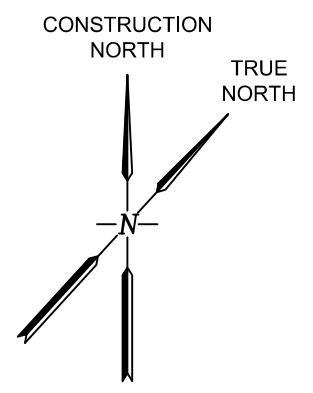
Client  
**TOWNSHIP OF GUELPH / ERAMOSA**  
8348 WELLINGTON ROAD 124, P.O. BOX 700  
ROCKWOOD, ON  
N0B 2K0

Drawn by  
**ALMA ST. WASTEWATER PRETREATMENT FACILITY UPGRADES**  
STRUCTURAL DETAILS

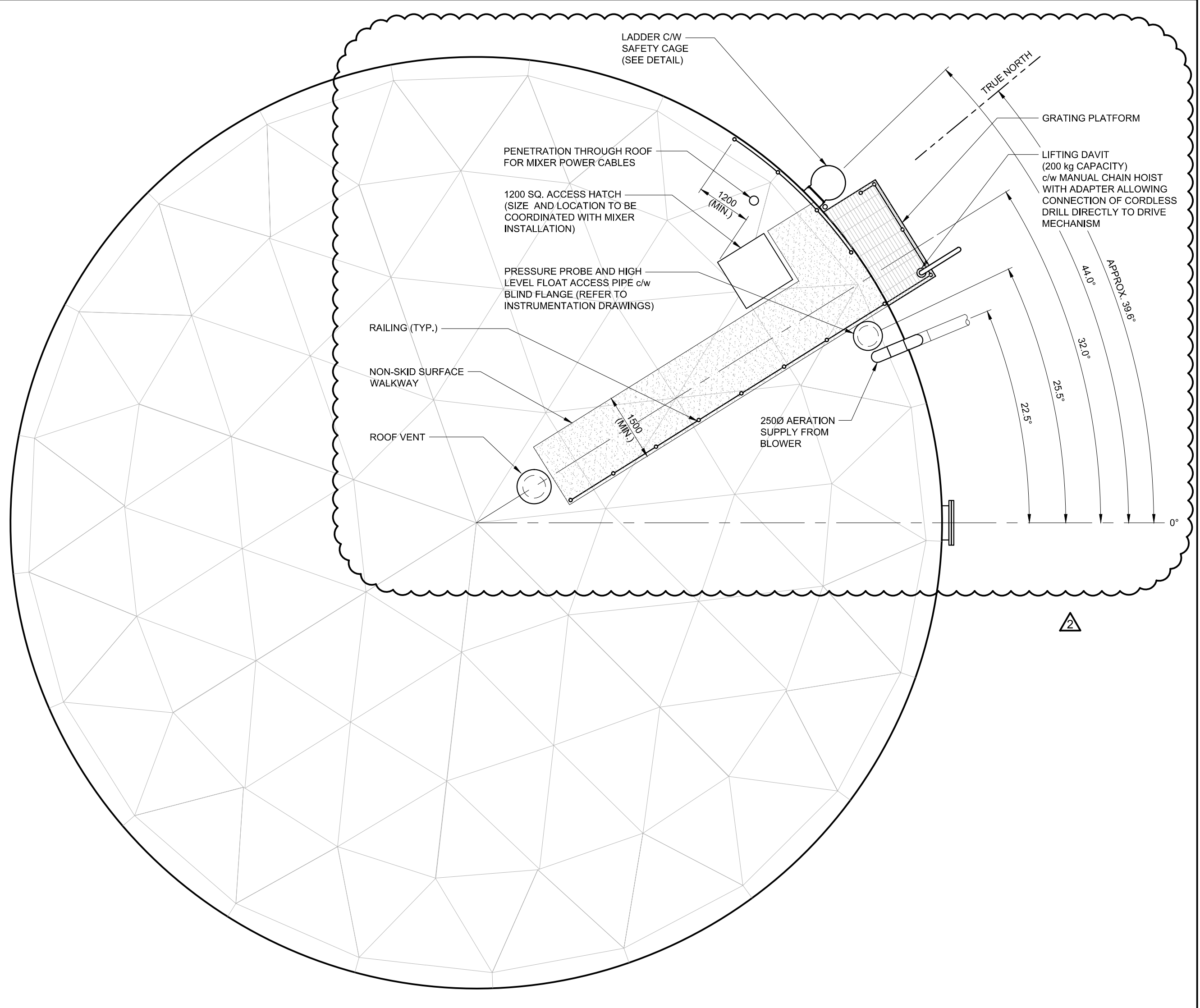
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T.T.	M.H.	M.H.	M.H.	15/02/28	<b>S106</b>

Project No. MSA143810.0062  
Contract No. MSA143810.0062  
Revision No. 2  
Scale AS NOTED

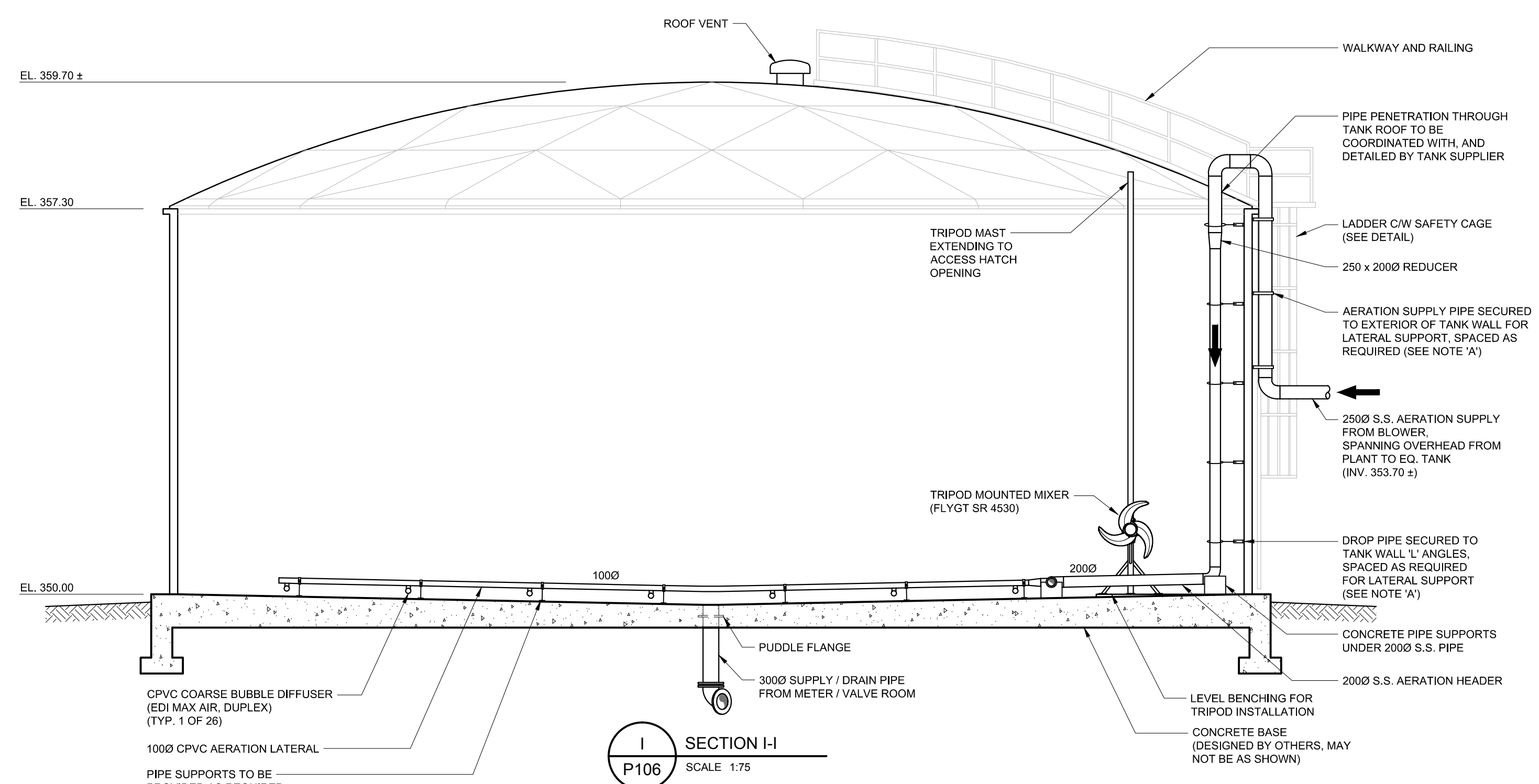




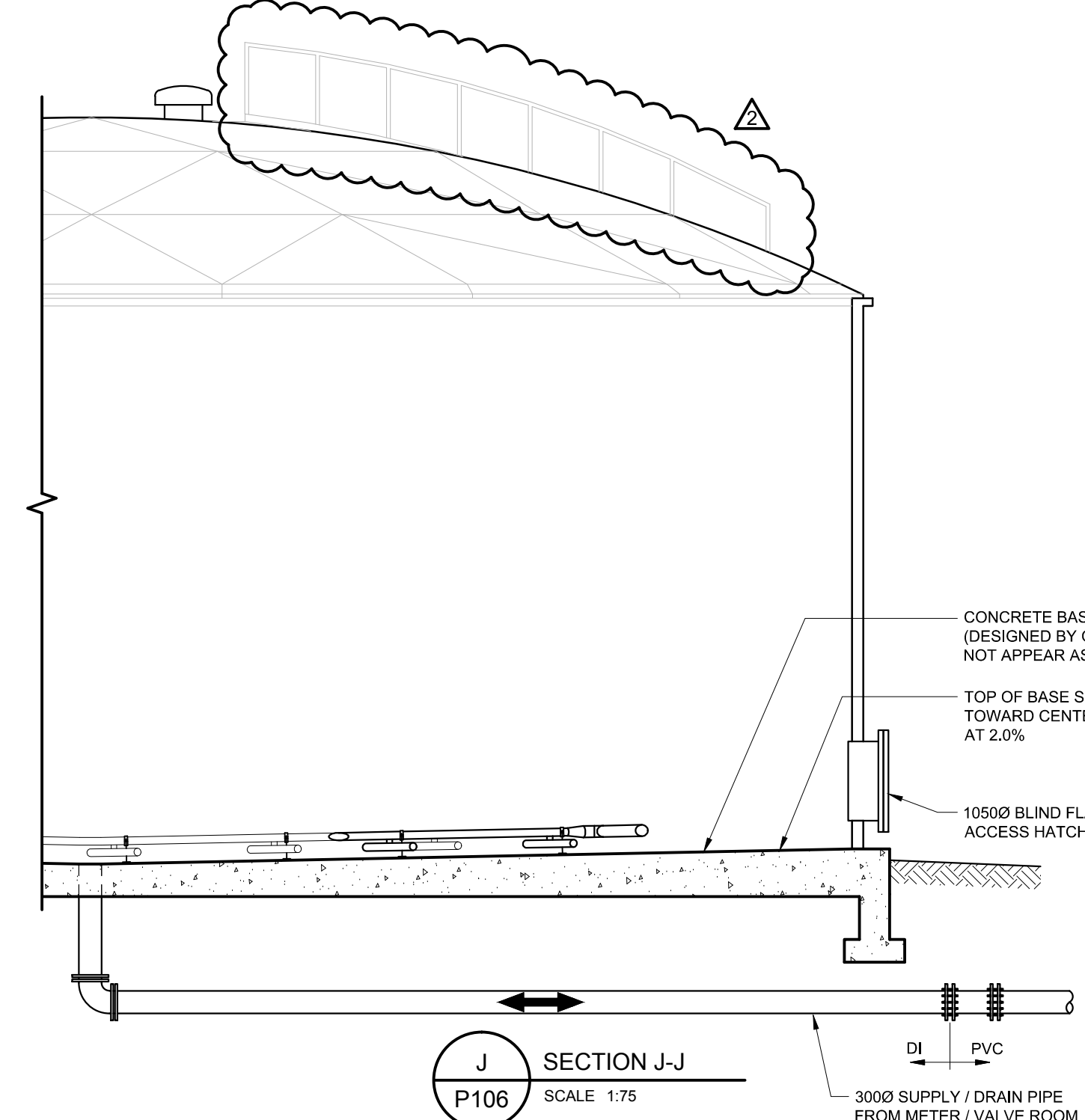
EQUALIZATION TANK PLAN (EL. 355.00)  
SCALE 1:75



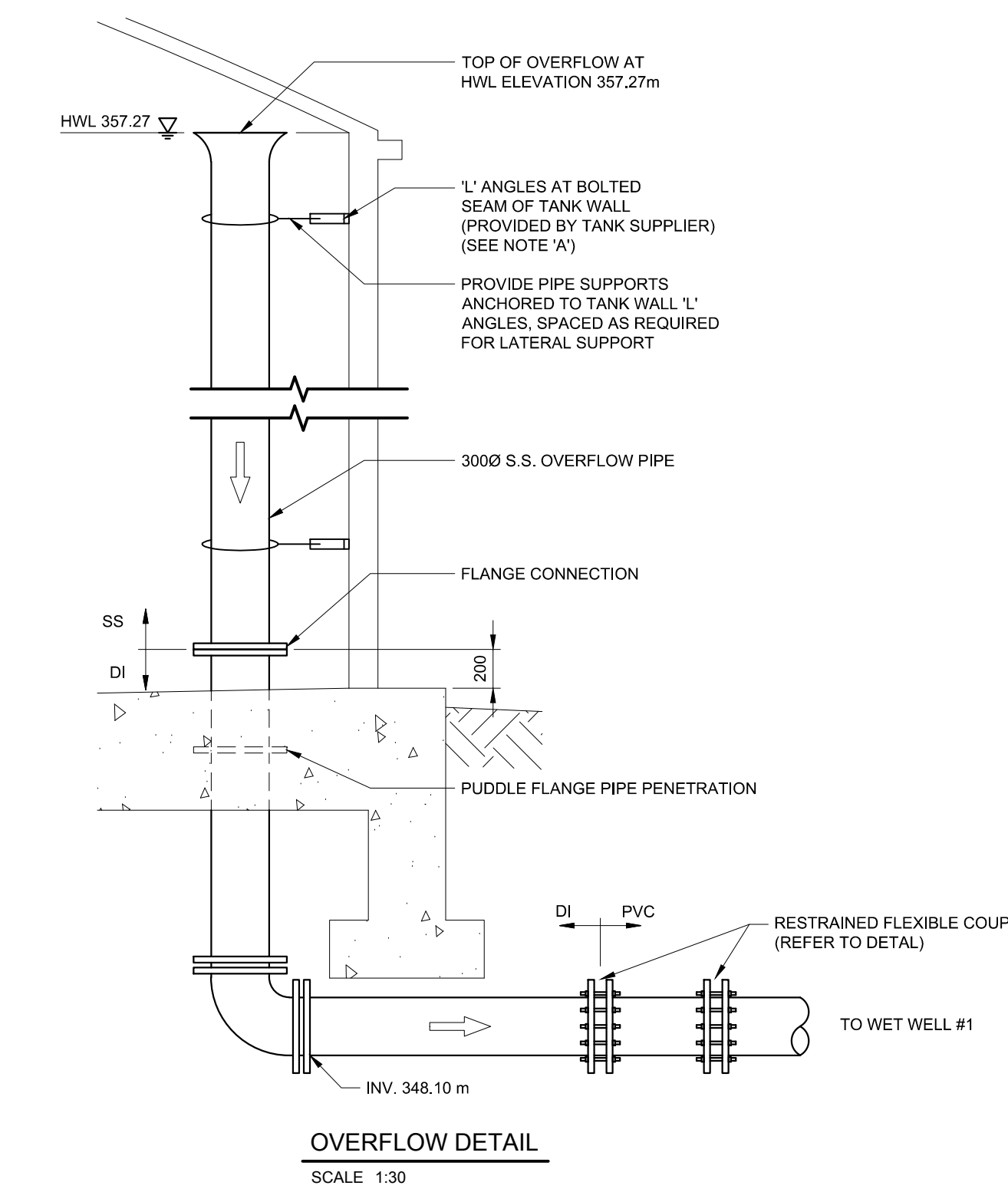
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SCALE 1:75



SECTION I-I  
SCALE 1:75



SECTION J-J  
SCALE 1:75



OVERFLOW DETAIL  
SCALE 1:30

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3	ISSUED FOR TENDER	DEC. 2015	
4	REVISED AS PER ADDENDUM No. 2	JAN. 2016	

NOTES:  
A. CONTRACTOR TO COORDINATE WITH TANK SUPPLIER TO DETAIL AND PROVIDE REQUIRED SUPPORT BRACKETS FOR ALL PIPE AND CONDUIT SECURED TO WALL OF TANK.  
B. ALL PENETRATIONS / OPENINGS THROUGH TANK ROOF TO BE COORDINATED WITH TANK SUPPLIER.

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Client: **TOWNSHIP OF GUELPH / ERAMOSIA**  
8348 WELLINGTON ROAD 124, P.O. BOX 700  
ROCKWOOD, ON  
N0B 2K0

Drawing Title: **ALMA ST. WASTEWATER PRETREATMENT FACILITY UPGRADES EQUALIZATION TANK PLAN AND SECTIONS**

Drawn	Checked	Designed	Checked	Date	Revision No.	Drawing No.
J.R.L.	J.L.L.	R.C.	J.L.L.	JAN. 2015	4	<b>P106</b>

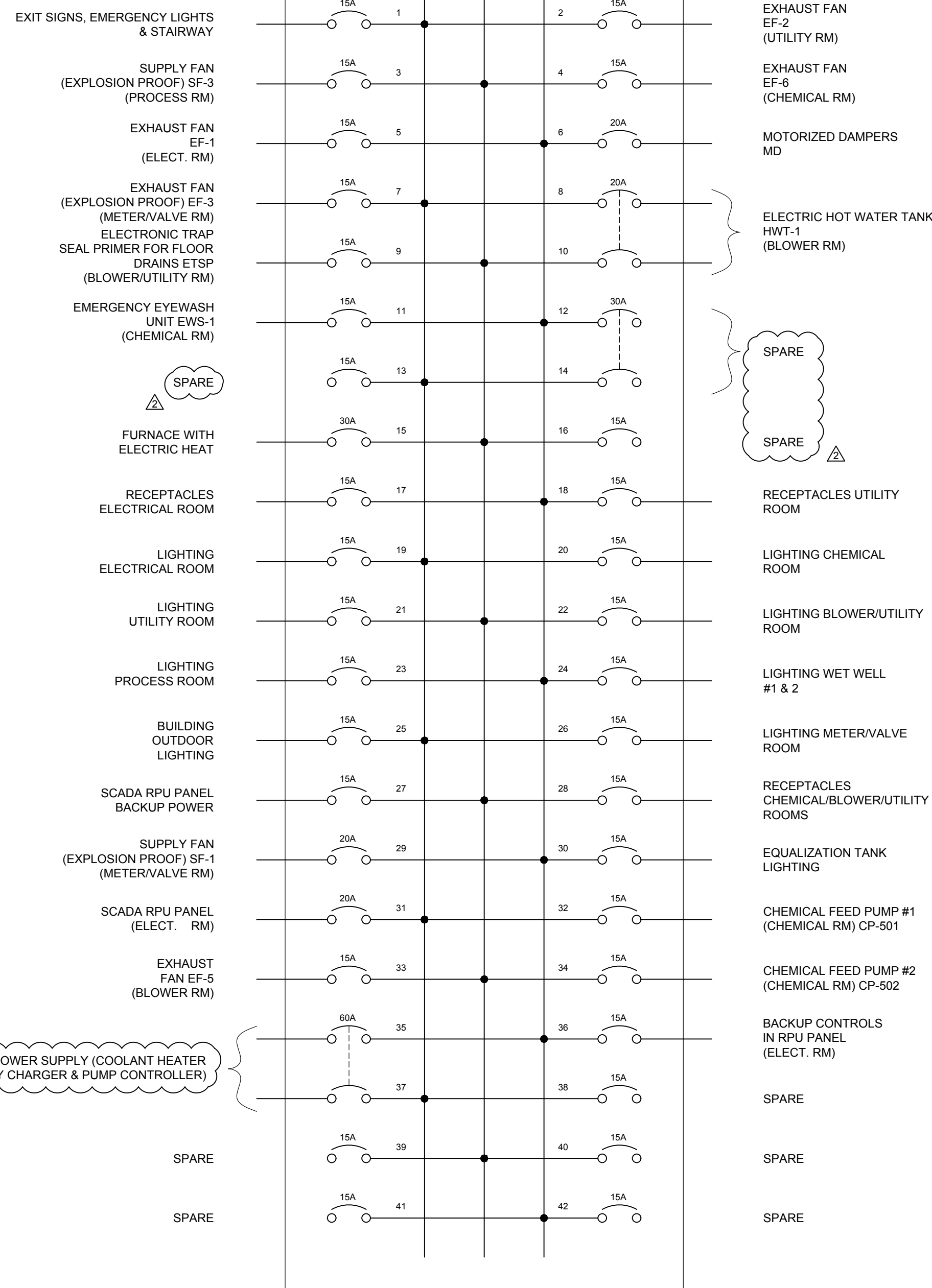
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Contract No. MSA143810.0062  
Scale 1:75

FOR TENDER

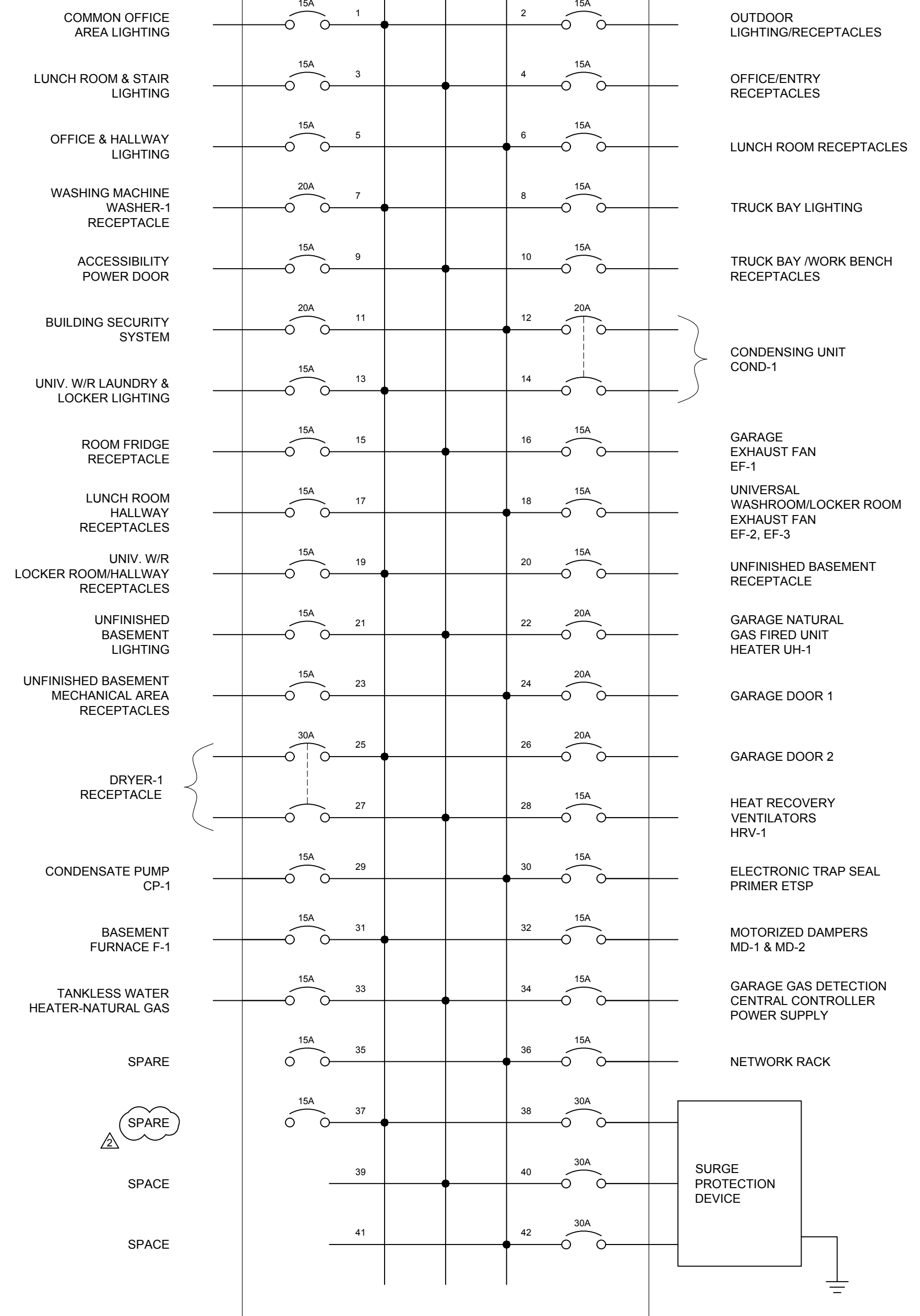
3 PHASE, 208/120V  
LIGHTING PANEL LP-A1

3 PHASE, 208/120V  
LIGHTING PANEL LP-A2

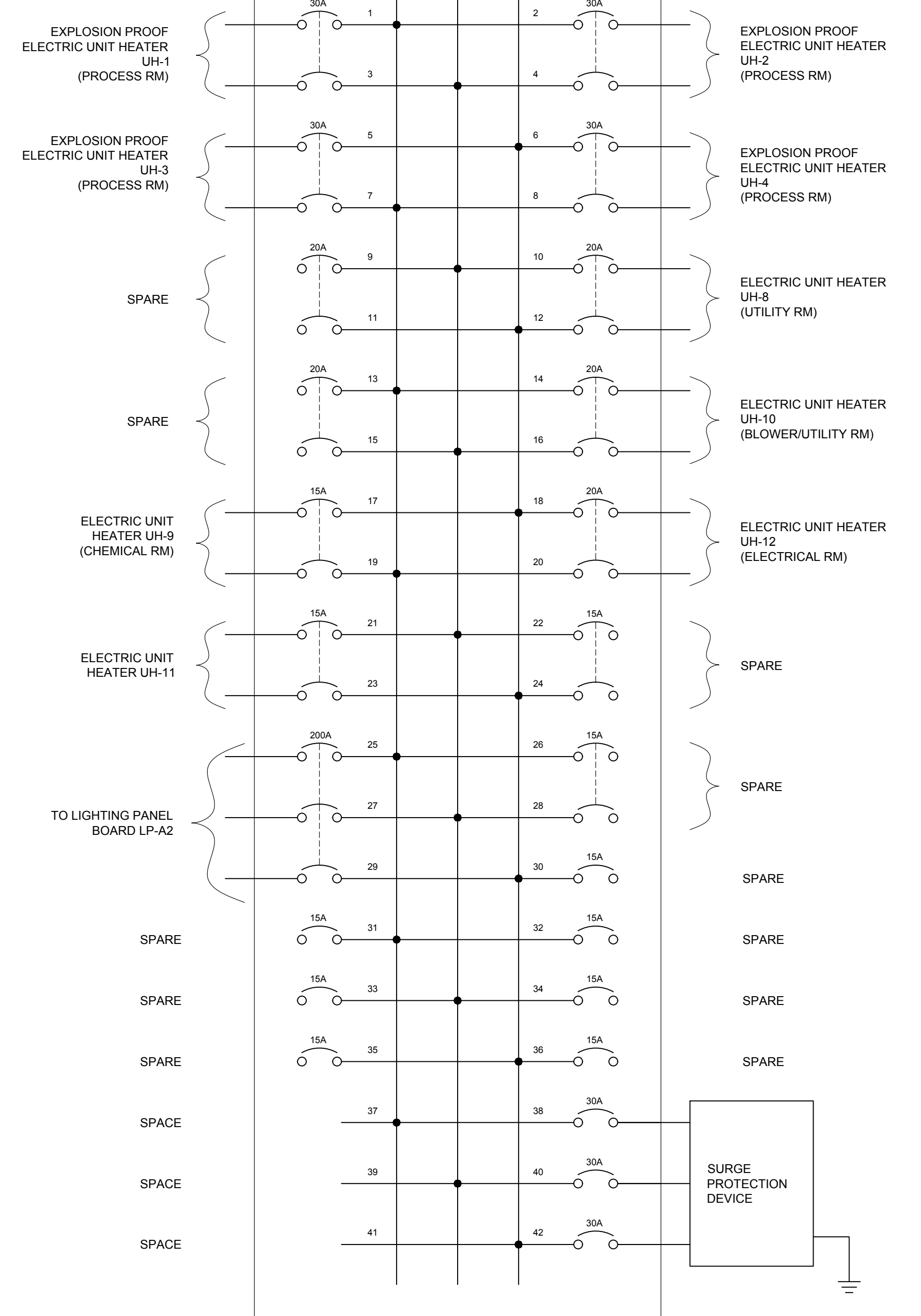
3 PHASE, 208/120V  
DISTRIBUTION PANEL DP-B1



LIGHTING PANEL (LP-A1) SCHEDULE  
(PART OF MCC LINEUP LOCATED INSIDE THE ELECTRICAL ROOM)



LIGHTING PANEL (LP-A2) SCHEDULE  
(LOCATED AT THE BASEMENT OF THE PUBLIC WORKS BUILDING)  
COMPLETE WITH SURGE PROTECTION DEVICE  
INSTALLED ON WALL



DISTRIBUTION PANEL (DP-B1) SCHEDULE  
(LOCATED INSIDE THE ELECTRICAL ROOM)  
COMPLETE WITH SURGE PROTECTION DEVICE  
INSTALLED ON WALL

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No.	Issue / Revision	Date	Auth.
1	ISSUED FOR MOECC ECA	FEB. 2015	JW
2	ISSUED FOR 90% REVIEW	OCT. 2015	JW
3	ISSUED FOR TENDER	DEC. 2015	JW
4	REVISED AS PER ADDENDUM No. 2	JAN. 2016	JW

FOR TENDER

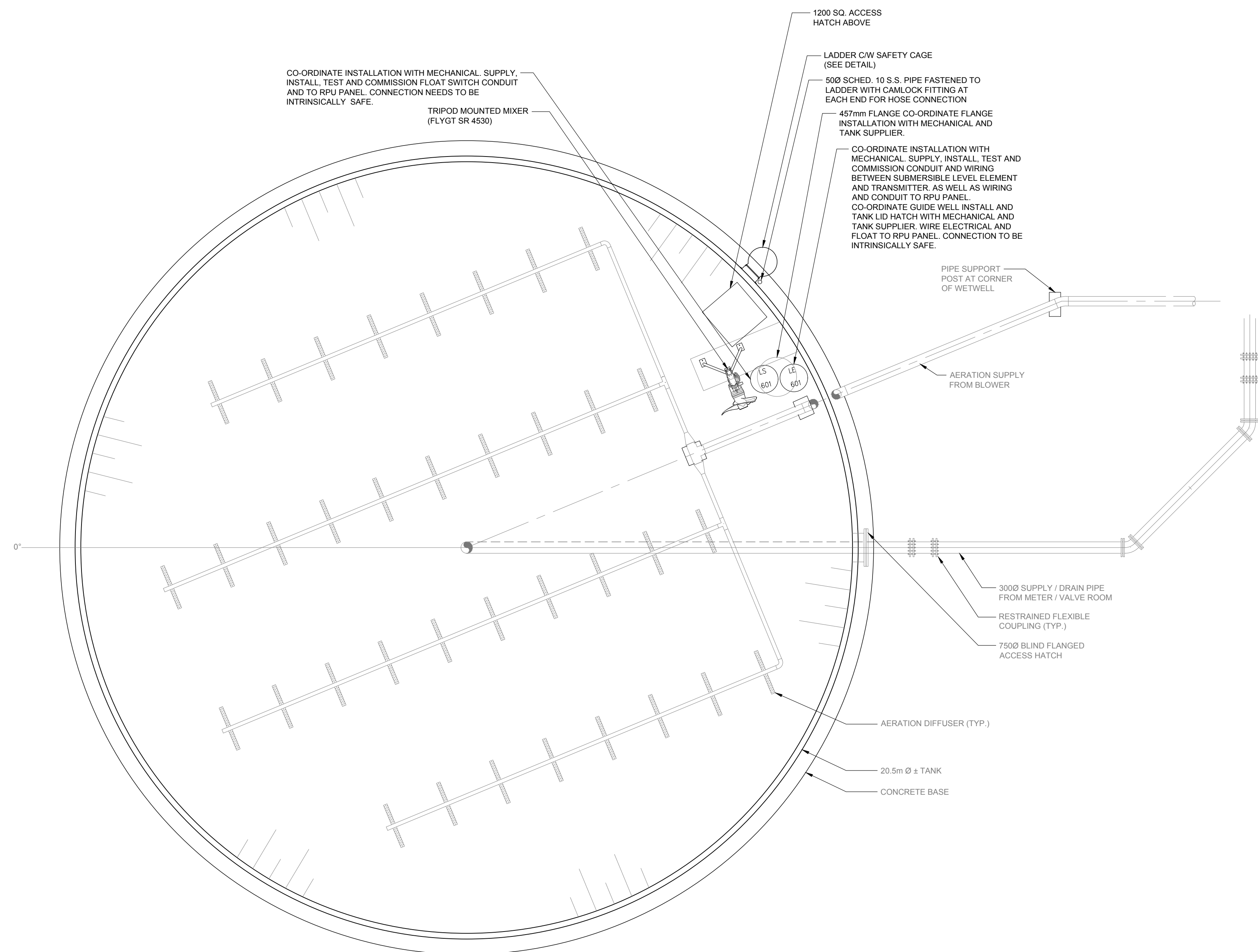
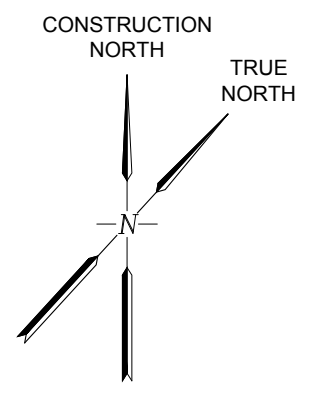


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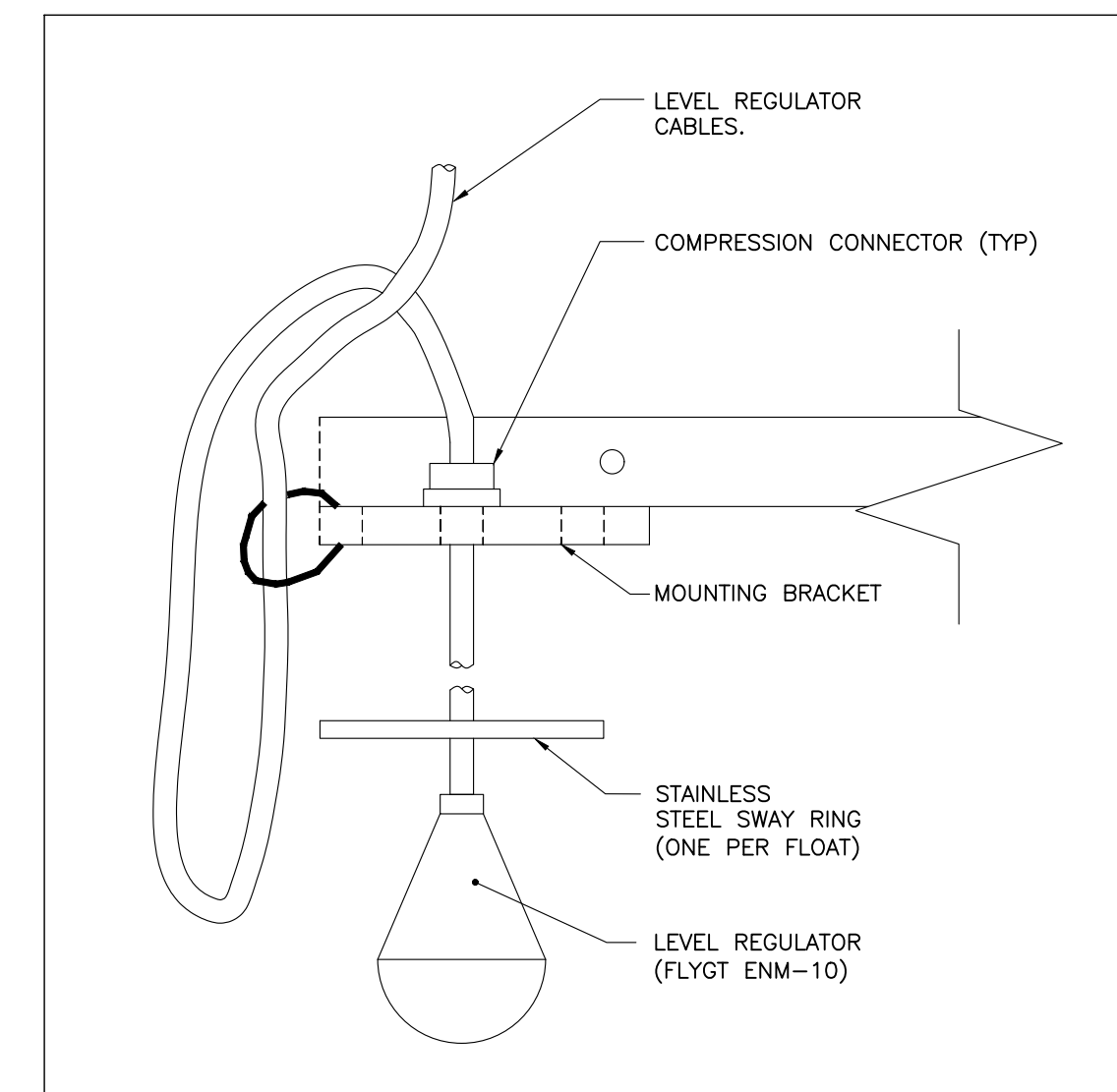
Client  
**TOWNSHIP OF GUELPH / ERAMOSIA**  
8348 WELLINGTON ROAD 124, P.O. BOX 700  
ROCKWOOD, ON  
N0B 2K0

Drawn	Checked	Designed	Checked	Date	Drawing No.
AA	S.M.	E.Y.	J.W.	OCT 2015	E106
Project No.	Contract No.	Revision No.			
MSA143810.0062	MSA143810.0062	1			
Scale	NOT TO SCALE				



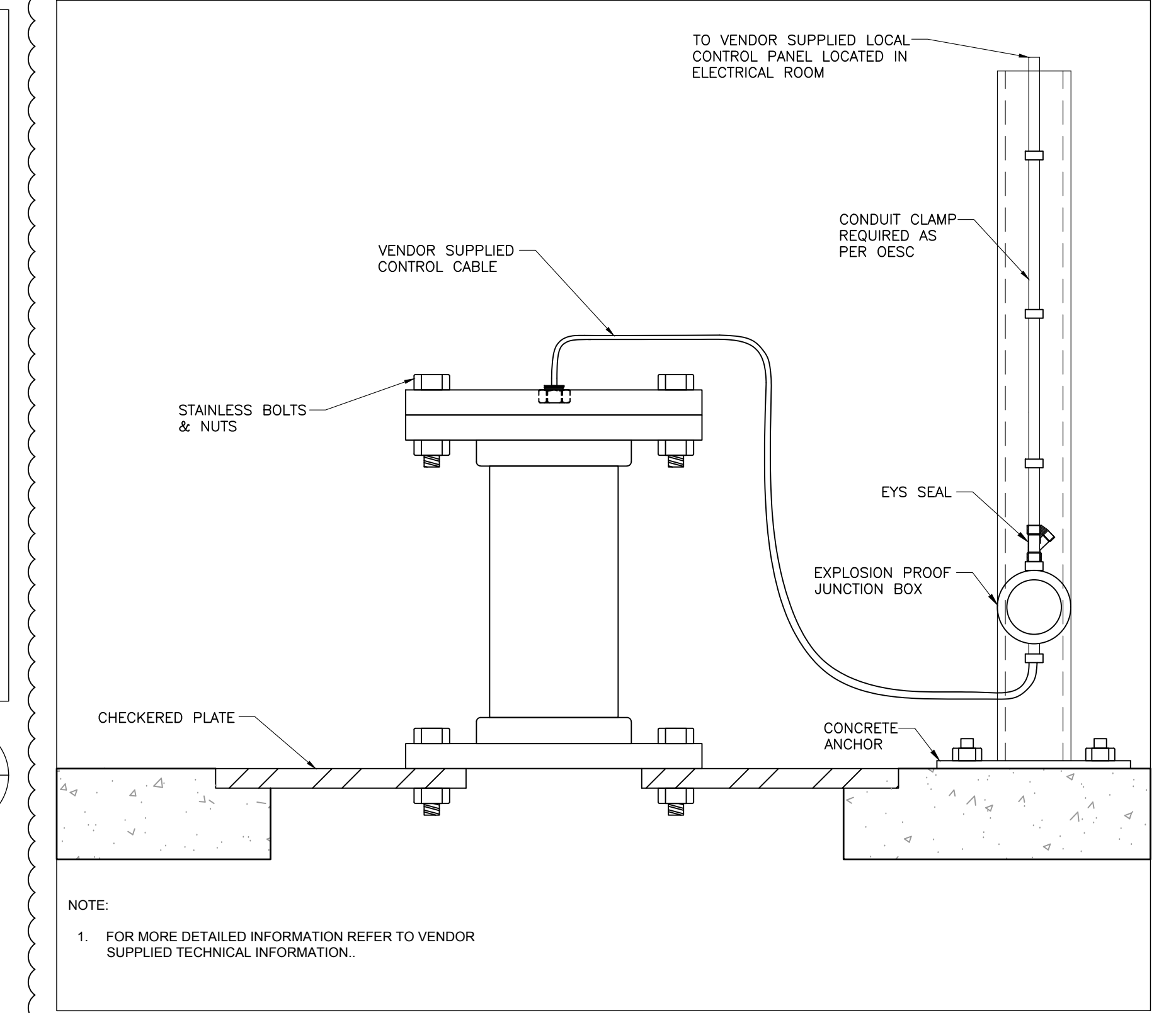


**EQUALIZATION TANK PLAN (EL. 355.00)**  
SCALE 1:75



**SINGLE FLOAT SWITCH HANGER DETAIL**

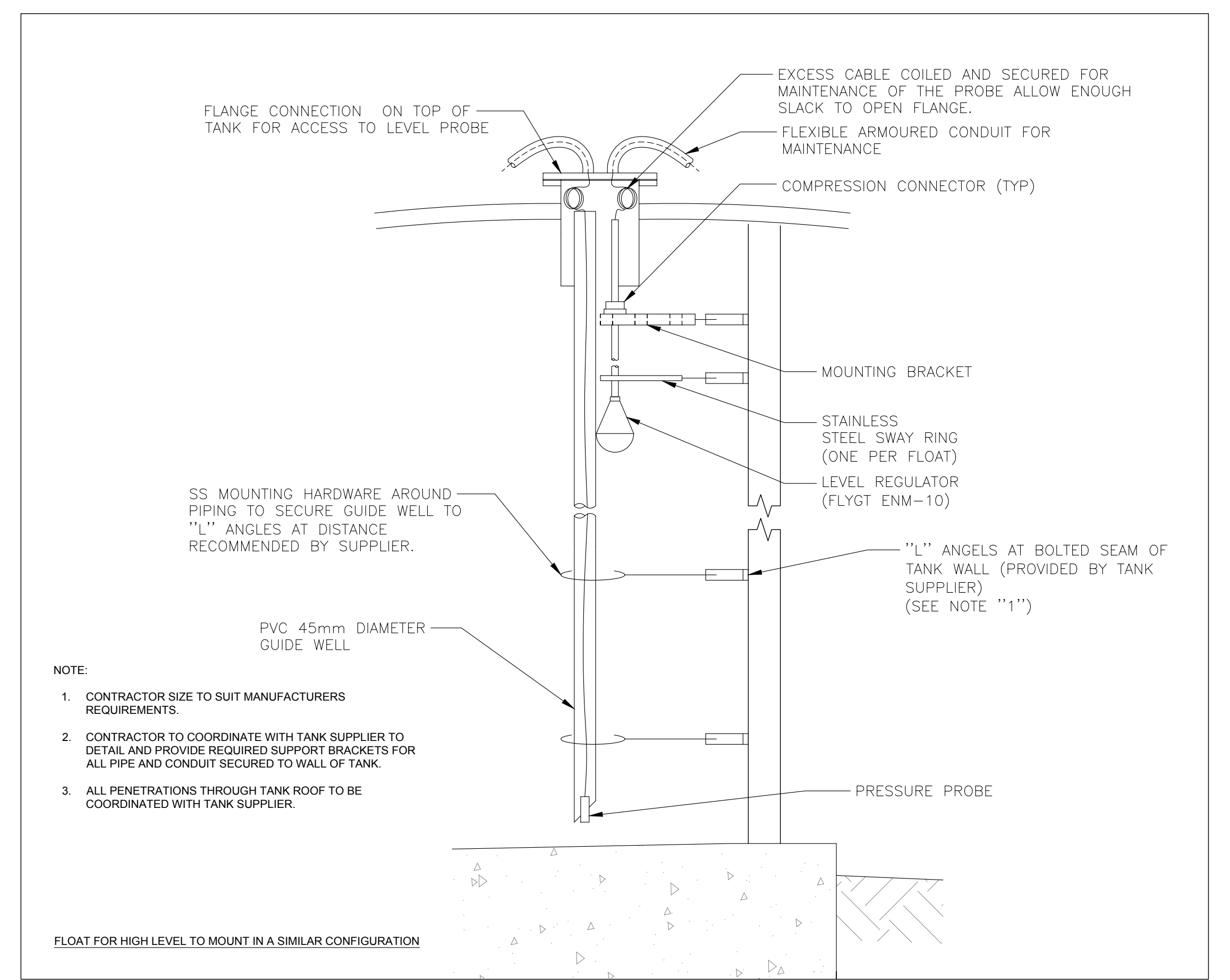
1  
1002



**ULTRASONIC LEVEL TRANSMITTER MOUNTING SUPPORT DETAIL FOR USE WITH MECHANICAL SCREEN ONLY**

NOTE:  
1. FOR MORE DETAILED INFORMATION REFER TO VENDOR SUPPLIED TECHNICAL INFORMATION.

2  
1002



NOTE:  
1. CONTRACTOR SIZE TO SUIT MANUFACTURERS REQUIREMENTS.  
2. CONTRACTOR TO COORDINATE WITH TANK SUPPLIER TO DETAIL AND PROVIDE REQUIRED SUPPORT BRACKETS FOR ALL PIPE AND CONDUIT SECURED TO WALL OF TANK.  
3. ALL PENETRATIONS THROUGH TANK ROOF TO BE COORDINATED WITH TANK SUPPLIER.

FLOAT FOR HIGH LEVEL TO MOUNT IN A SIMILAR CONFIGURATION

**PRESSURE TRANSDUCER AND GUIDE WELL DETAIL**

3  
1002

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**FOR TENDER**



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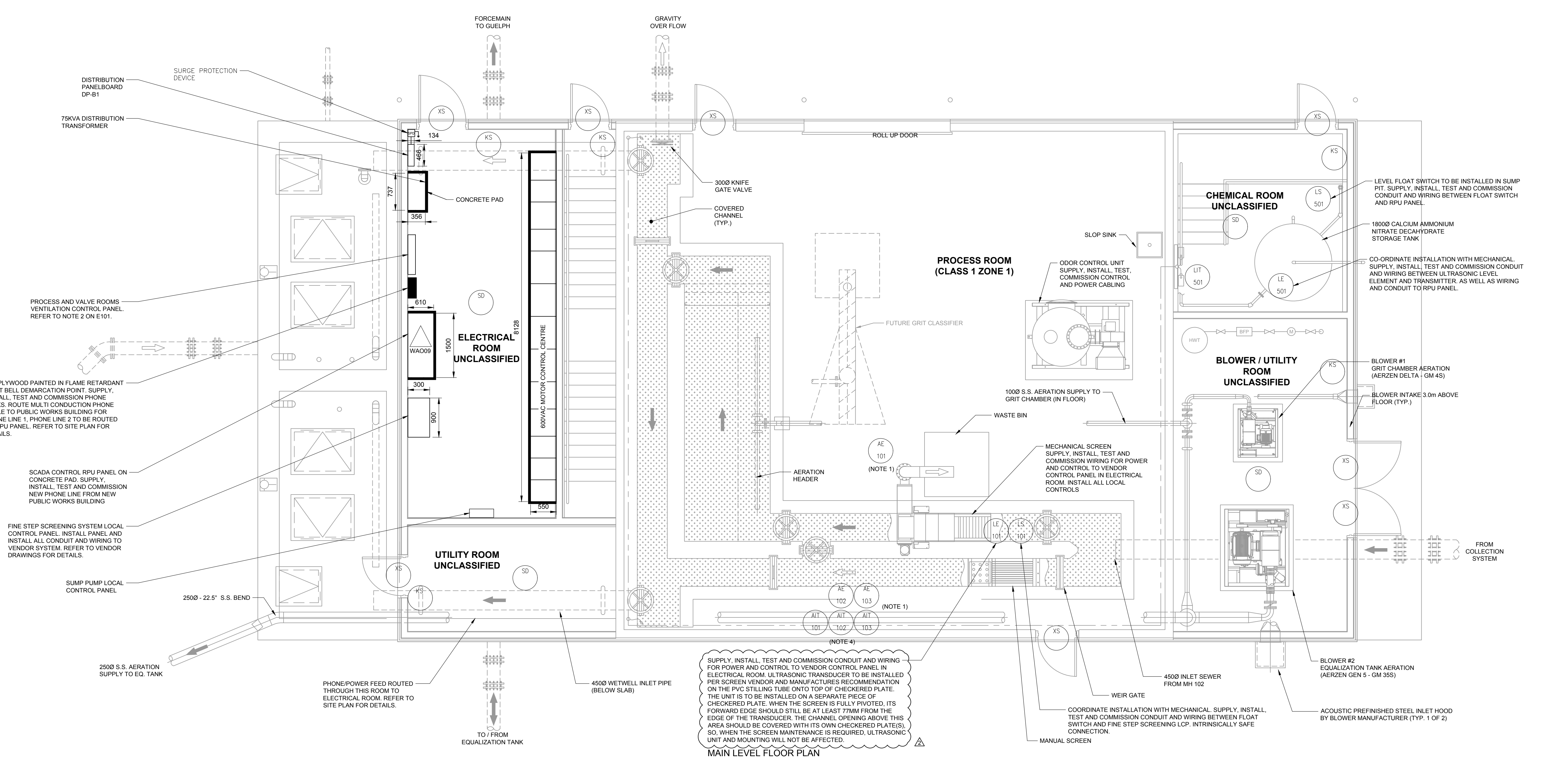
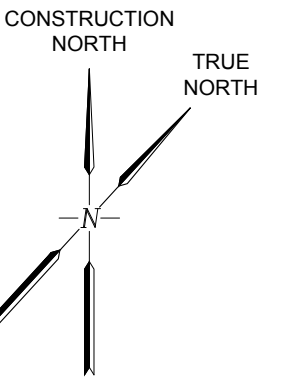
Client  
**TOWNSHIP OF GUELPH / ERAMOSA**  
8348 WELLINGTON ROAD 124, P.O. BOX 700  
ROCKWOOD, ON  
N0B 2K0

Drawn	Checked	Designed	Checked	Date	Drawing No.
AA	S.M.	A.Z.	J.W.	OCT 2015	
Project No.	Contract No.	Revision No.			
MSA143810.0062	MSA143810.0062	1			
Scale					
1:75					

**1101**

File Name: 20151114101.dwg Date Plotted: January 20, 2016 11:38 AM





- NOTES:**
- GAS MONITORS INSTALLED AT APPROXIMATELY 1.5 METERS FROM FLOOR WITH SENSOR MOUNTING AS FOLLOWS (REFER TO MANUFACTURERS REQUIREMENTS).
    - LEL AT 18" BELOW CEILING (AIT/AE101)
    - H2S AT 450mm FROM FLOOR (AIT/AE102)
    - O2 AT DISPLAY (AIT/AE103)
  - GAS SENSOR CALIBRATION TUBING REQUIRED FOR LEL AND H2S SUPPLY AND INSTALL.
  - EYS SEALS AND INTRINSIC BARRIERS REQUIRED FOR EQUIPMENT INSTALLED IN CLASSIFIED AREAS.
  - CO-ORDINATE INSTALLATION WITH MECHANICAL. SUPPLY, INSTALL, TEST AND COMMISSION CONDUIT AND WIRING BETWEEN GAS MONITORS AND VENTILATION CONTROL PANEL.
  - REFER TO VENDOR DETAILS ON ELECTRICAL AND CONTROL REQUIREMENTS OF THE CONTRACTOR FOR WIRING, INSTALLATION AND COMMISSIONS OF A COMPLETE SCREEN SYSTEM.

**FOR TENDER**

No.	Issue / Revision	Date	Auth.
1	ISSUED FOR MOECC ECA	FEB. 2015	JW
2	ISSUED FOR 90% REVIEW	OCT. 2015	JW
3	ISSUED FOR TENDER	DEC. 2015	JW
4	REVISED AS PER ADDENDUM No. 2	JAN. 2016	JW

No.	Issue / Revision	Date	Auth.

**ERAMOSIA**

**BURNSIDE**

Client: **TOWNSHIP OF GUELPH / ERAMOSA**  
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 ROCKWOOD, ON  
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 telephone (519) 823-4995  
 fax (519) 836-5477  
 web www.rjburnside.com

Client: **ALMA ST. WASTEWATER PRETREATMENT FACILITY UPGRADES**  
**PROCESS MAIN LEVEL FLOOR PLAN**

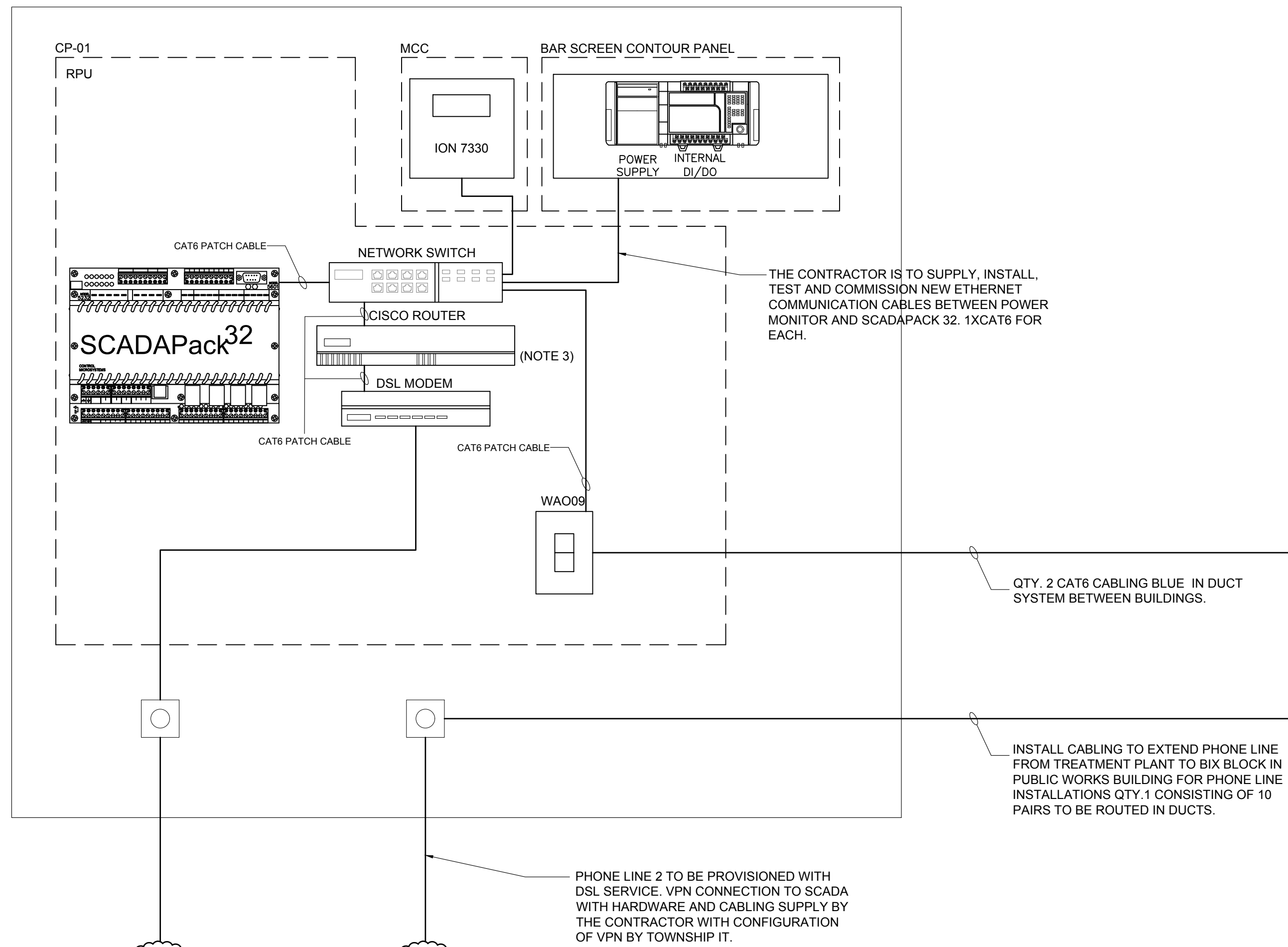
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Project No. MSA143810.0062 Contract No. MSA143810.0062  
 Scale: 1:50

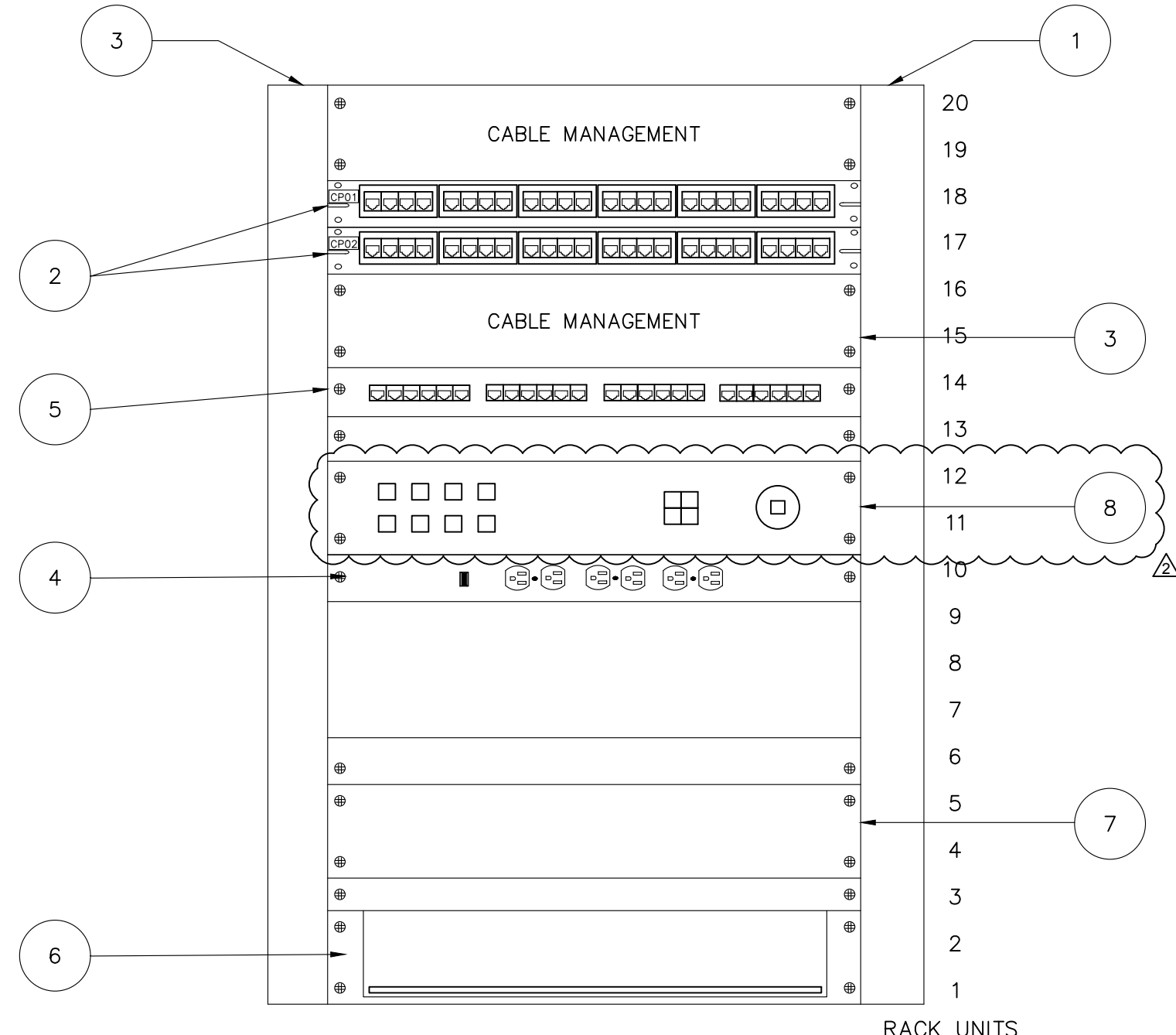
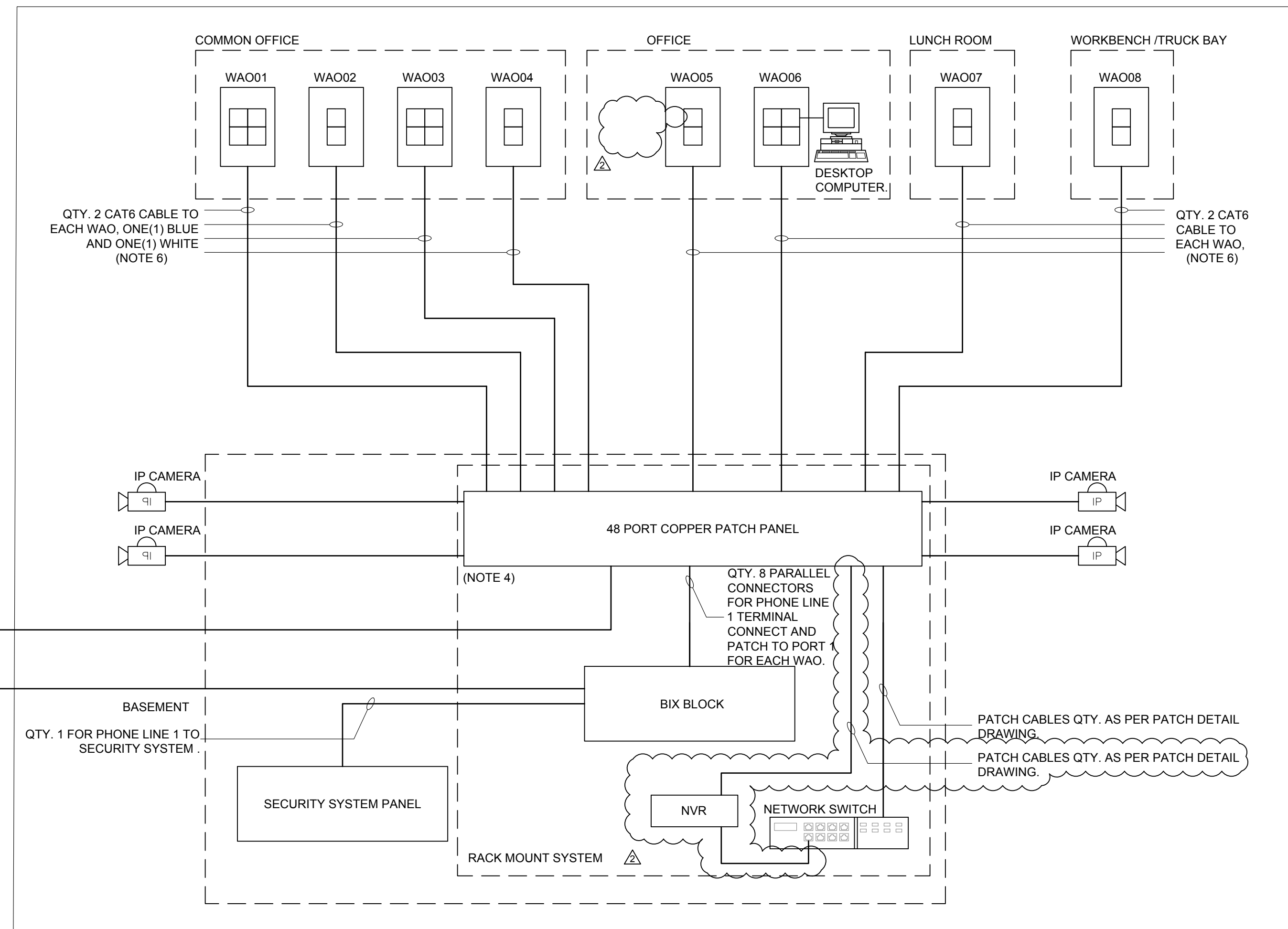
File Name: 20151114103.dwg Date Plotted: January 20, 2016 11:38 AM



ALMA ST. WASTE WATER PLANT



ALMA ST. PUBLIC WORKS BUILDING



ITEM	DESCRIPTION
1	914.4mmH X 609.6mm RACK (20U)
2	48-PORT (2U) PATCH PANEL
3	HORIZONTAL CABLE MANAGEMENT (2U)
4	POWER BAR (1U)
5	48-PORT NETWORK SWITCH (1U)
6	RACK MOUNTED SLIDE OUT SHELF (2U)
7	RACK MOUNT BIX PANEL
8	RACK MOUNT SECURITY NVR (2U)

- NOTES:
- PROVIDE 120VAC DUPLEX RECEPTACLE FROM DEDICATED 15 A CB FROM LIGHTING PANEL. PLUG POWER PAR INTO IT.
  - USE VELCRO TIE WRAPS TO SECURE CABLING TO VERTICAL RACK ANGLES.
  - TERMINATE ALL CABLING ON BIX PANEL AND PATCH TO COPPER PATCH PANEL.
  - TERMINATE ALL CAT6 CABLING AT COPPER PATCH PANEL. PATCH TO NETWORK SWITCH AND BIX PANEL.

- NOTES:
- ALL NETWORK CABLES TERMINALS, CONNECTIONS, CONDUITS AND COMPONENTS TO BE SUPPLIES INSTALLED, TESTED AND COMMISSIONS BY THE CONTRACTOR. COORDINATE WITH VENDORS, SUPPLIES AND BELL FOR ALL INSTALLATIONS REQUIREMENTS.
  - CAT6 CABLING AND INSERTS AT WORK AREA OUTLETS TO BE COLOR USING BLUE FOR DATA AND WHITE FOR VOICE UNLESS NOTES OTHERWISE.
  - CISCO ROUTER SUPPLIED AND INSTALLED BY THE CONTRACTOR. THAN OVER TO TOWNSHIP IT FOR CONFIGURATION. ALSO MOTOR SUPPLIES BY BELL.
  - 48 PORT PATCH PANEL QTY.1 REQUIRED FOR INTERFACING ALL CAT6 CABLING.
  - INSTALL ALL CABLING AND TERMINATE FOR FUTURE IP CAMERAS TO BUILDING EXTERIOR.
  - WORK AREA OUTLET WITH 4 PORTS TO HAVE QTY.4 CAT6 CABLING WITH QTY. 3 BLUE INSERTS FOR CAT6 AND QTY. 1 WHITE. INSERT FOR VOICE. REFER TO COOPER PATCHING FOR DETAILS AND WIRING DIFFERENCES.
  - SUPPLY ALL CAT6 PATCH CABLES.
  - REFER TO I120 FOR NETWORK CONNECTION DETAILS IN PUBLIC WORKS BUILDING.
  - SECURITY SYSTEM NVR SUPPLIED BY SECURITY VENDOR WITH ALL COST CARRIED BY CONTRACTOR.

THE CONTRACTOR IS TO SUPPLY, INSTALL, TEST AND COMMISSION NEW ETHERNET COMMUNICATION CABLES BETWEEN POWER MONITOR AND SCADAPACK 32. 1XCAT6 FOR EACH.

QTY. 2 CAT6 CABLING BLUE IN DUCT SYSTEM BETWEEN BUILDINGS.

INSTALL CABLING TO EXTEND PHONE LINE FROM TREATMENT PLANT TO BIX BLOCK IN PUBLIC WORKS BUILDING FOR PHONE LINE INSTALLATIONS QTY.1 CONSISTING OF 10 PAIRS TO BE ROUTED IN DUCTS.

PHONE LINE 2 TO BE PROVISIONED WITH DSL SERVICE. VPN CONNECTION TO SCADA WITH HARDWARE AND CABLING SUPPLY BY THE CONTRACTOR WITH CONFIGURATION OF VPN BY TOWNSHIP IT.

FOR TENDER

No.	Issue / Revision	Date	Auth.
1	ISSUED FOR MOECC ECA	FEB. 2015	JW
2	ISSUED FOR 90% REVIEW	OCT. 2015	JW
3	ISSUED FOR TENDER	DEC. 2015	JW
4	REVISED AS PER ADDENDUM No. 2	JAN. 2016	JW

Client	Project No.	Scale
TOWNSHIP OF GUELPH / ERAMOSIA	MSA143810.0062	1:50

Checked	Designed	Date
S.M.	A.Z.	OCT 2015

**ERAMOSIA**

**BURNSIDE**

Client: TOWNSHIP OF GUELPH / ERAMOSIA  
 8348 WELLINGTON ROAD 124, P.O. BOX 700  
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Client: ALMA ST. WASTEWATER PRETREATMENT FACILITY UPGRADES  
 NETWORK DIAGRAM

Drawn	Checked	Designed	Checked	Date	Drawn No.
AA	S.M.	A.Z.	J.W.	OCT 2015	

Project No. MSA143810.0062  
 Contract No. MSA143810.0062  
 Revision No. 1

Scale: 1:50

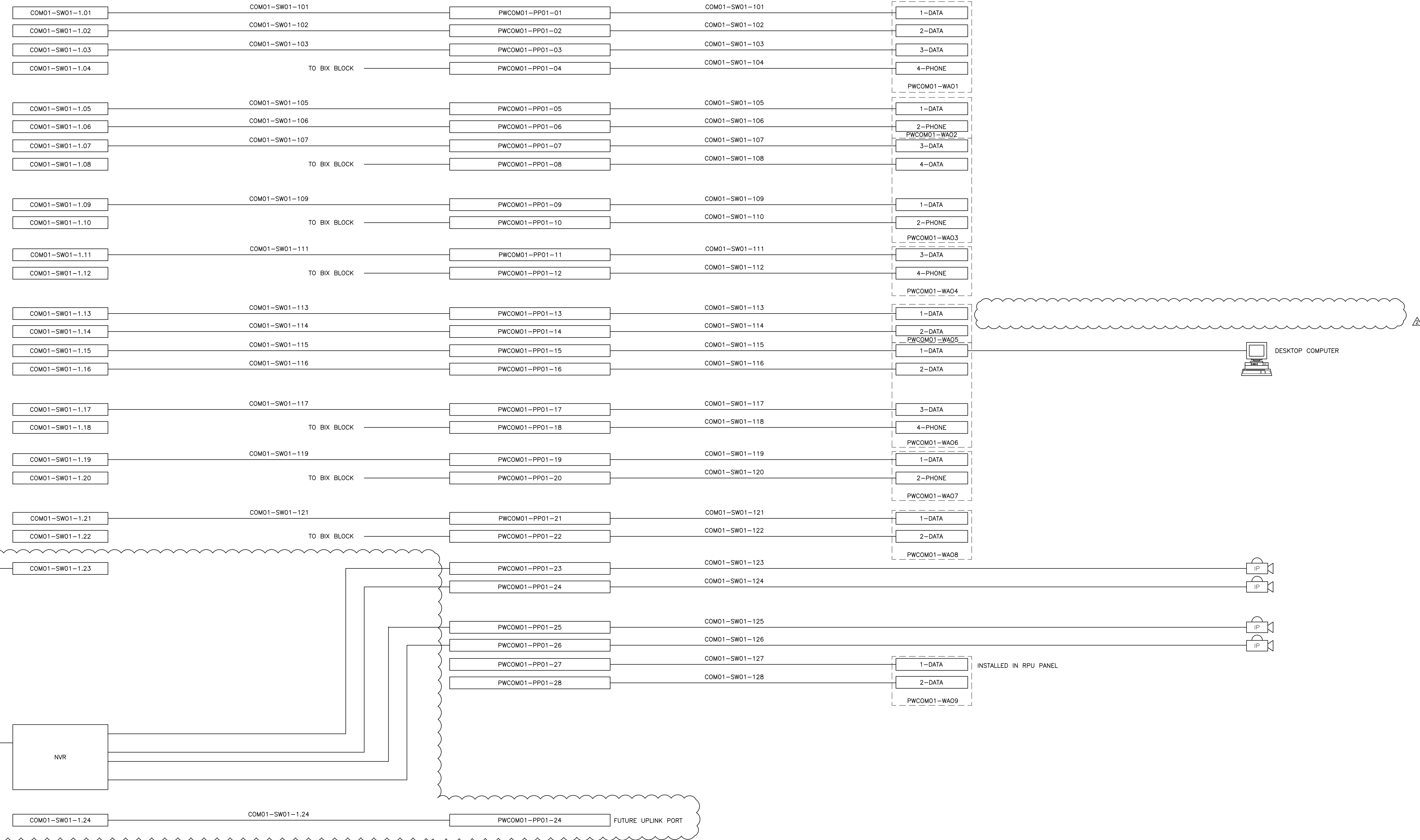
**1119**

PWCOM01-SW01  
PORT ASSIGNMENT  
NETWORK SWITCH

PWCOM01-PP01  
COPPER PATCH PANEL

WORK AREA OUTLET

DEVICE



- NOTES:
- NVR SETUP BY SECURITY VENDOR.
  - IP ADDRESSES/VLANs/SUBNET FOR IP CAMERAS, DVR, AND DESKTOP COMPUTER TO BE CO-ORDINATED WITH ENGINEER AND SECURITY PROVIDER FOR SECURITY VLAN. ALL OTHER DATA PORTS SEPARATE DATA VLAN.
  - LABEL ALL CAT6 CABLING AT BOTH ENDS.

VLAN	PATCH CABLE COLOUR
SECURITY	VIOLET
PHONE	WHITE
DATA	BLUE

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FOR TENDER



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Drawn	Checked	Designed	Checked	Date	Revision No.	Drawing No.
AA	S.M.	A.Z.	J.W.	OCT 2015	1	1120

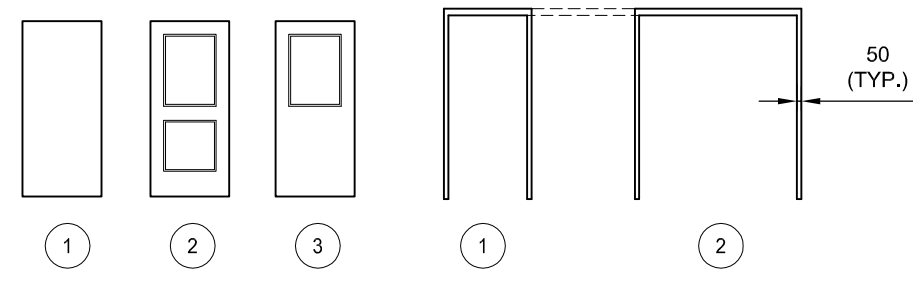
Project No. MSA143810.0062  
 Contract No. MSA143810.0062  
 Scale 1:50



**DOOR SCHEDULE**

No.	TYPE	MATERIAL	FINISH	ELEVATION	THICK	WIDTH	HEIGHT	DOOR NOMINAL SIZE	TYPE	MATERIAL	FINISH	ELEVATION	MINIMUM FIRE LABEL	BARRIER FREE INSTALLATION	REMARKS	HARDWARE CODES
D101	HM	INS-ST	PT	2	45	915	2150	HM ST PT	1						POWER DOOR OPERATOR	A, D, F, H, K, L, M, N, P, Q, R
D102	HM	INS-ST	PT	1	45	1830	2150	HM ST PT	2						SLIDING DOUBLE DOOR HARDWARE	
D103	HM	INS-ST	PT	3	45	915	2150	HM ST PT	1							A, B, C, D, F, I, K, L, M, N, P
D104	REMOVED															
D105	HM	ST	PT	1	45	915	2150	HM ST PT	1							A, B, J, O, Q
D106	HM	ST	PT	1	45	915	2150	HM ST PT	1							A, E, J
D107	HM	ST	PT	1	45	915	2150	HM ST PT	1							A, B, J, O
D108	HM	ST	PT	1	45	915	2150	HM ST PT	1							A, B, J, O
D109	HM	ST	PT	1	45	915	2150	HM ST PT	1							A, E, J
D110	HM	ST	PT	2	45	915	2150	HM ST PT	1				1/2 HR		RATED DOOR & FRAME	A, B, C, E, I, J, K, M
D111	HM	ST	PT	3	45	915	2150	HM ST PT	1							A, E, J
D112	HM	ST	PT	2	45	915	2150	HM ST PT	1				1/2 HR		RATED DOOR & FRAME	A, B, C, E, I, J, K, M
D001	HM	ST	PT	1	45	1830	2150	THM ST PT	2						DOUBLE DOOR	A, B, C, D, F, I, K, L, M, N, P
D002	HM	ST	PT	3	45	915	2150	HM ST PT	1							A, E, J
D113	ST	INS-ST	PT				3660								INSULATED OH R5 MIN., PREFINISHED METAL CLAD WOOD DOOR FRAME	D, K, R
D114	ST	INS-ST	PT				3660								INSULATED OH R5 MIN., PREFINISHED METAL CLAD WOOD DOOR FRAME	D, K, R

ST = STEEL HM = HOLLOW METAL THM = THERMALLY BROKEN HOLLOW METAL INS-ST = INSULATED STEEL PT = PAINT  
AL = ALUMINUM XA = EXTRUDED ALUMINUM THA = THERMALLY BROKEN HOLLOW ALUMINUM INS-AL = INSULATED ALUMINUM AN = ANODIZED



DOOR ELEVATIONS

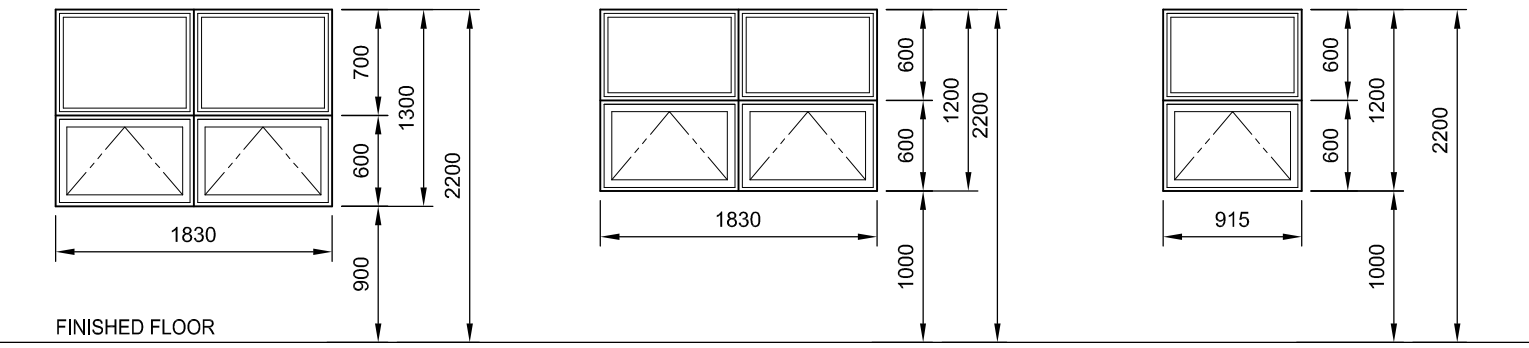
FRAME ELEVATIONS

TEMPERED GLAZING TYPICAL. WIRED GLAZING AS REQUIRED FOR RATED CLOSURES.

**NOTES:**

1. UNDER CUT WASHROOM DOORS TO MEET VENTILATION REQUIREMENTS.
2. ALL GLAZING TO BE TEMPERED. USE GEORGIAN WIRE GLAZING IN ALL RATED LITE/DOORS.
3. INSULATE ALL EXTERIOR DOORS AND FRAMES.
4. ALL STEEL FRAMES TO BE WELDED.
5. ALL DOORS LOCATED IN A FIRE SEPARATION ARE TO BE EQUIPPED WITH A POSITIVE LATCHING MECHANISM DESIGNED TO HOLD THE DOOR CLOSED AFTER EACH USE IN ACCORDANCE TO ONTARIO BUILDING CODE ARTICLE 3.1.8.13.
6. AFFIX BARRIER-FREE SIGNAGE TO DOORS AS PER O.B.C.
7. GLAZING IN EXTERIOR DOORS TO BE DOUBLE GLAZED & DOUBLE DOOR TO INCLUDE LOCKING THUMB LATCH ON EXTERIOR OF LEFT LEAF. SELF CLOSER ON LEFT LEAF WITH HOLD OPEN. SWING LIMITING HOLD OPEN ON RIGHT LEAF. DEAD BOLTS AT TOP AND BOTTOM ON RIGHT LEAF W/ ASTRAGAL.

**WINDOW SCHEDULE**



FINISHED FLOOR

W01 MAIN FLOOR AWNING

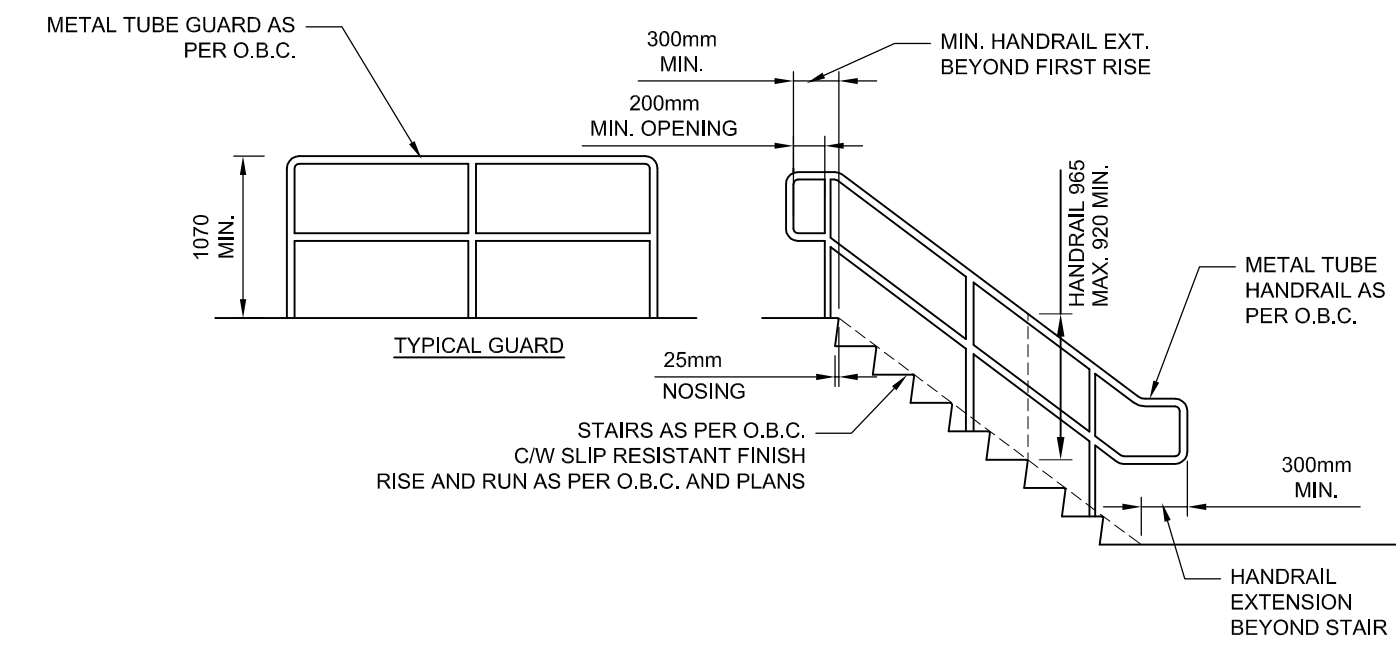
W02 BASEMENT AWNING

W03 BASEMENT AWNING

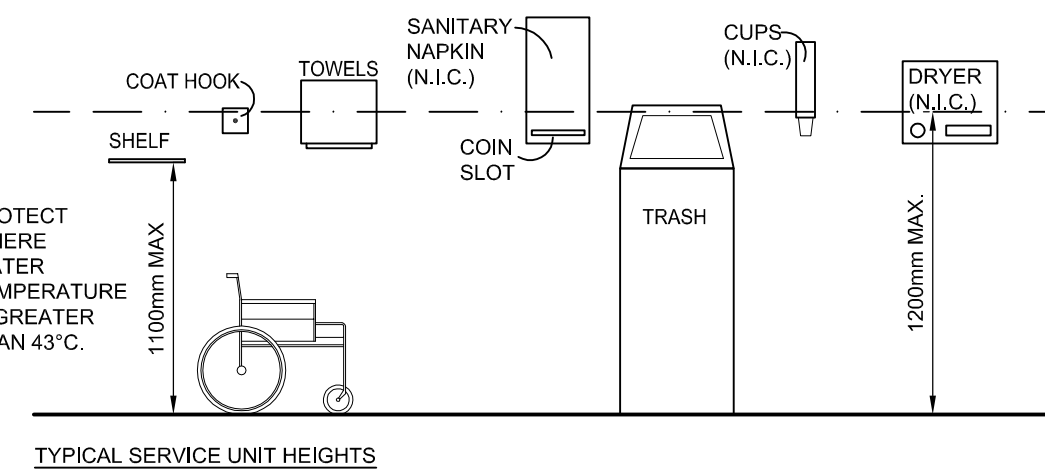
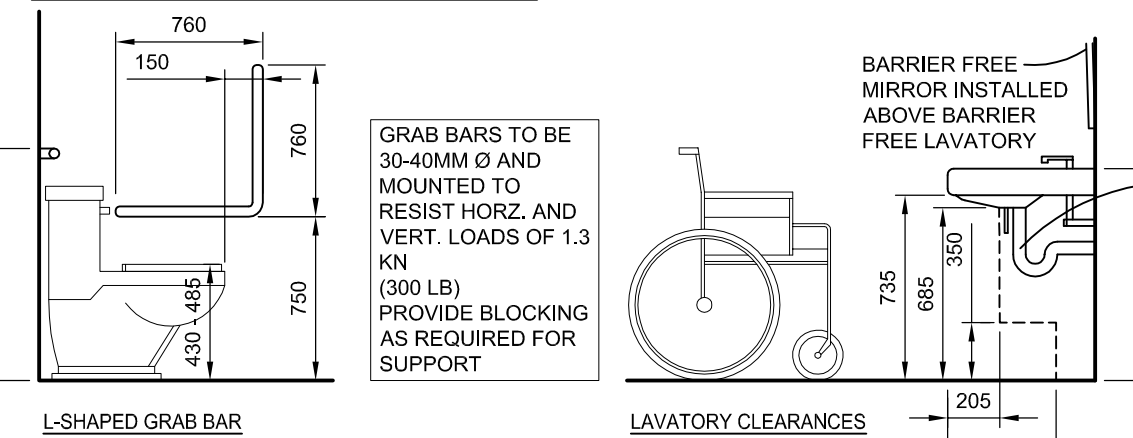
**NOTES:**

1. EXTERIOR WINDOWS TO BE DOUBLE GLAZED, THERMALLY BROKEN.
2. INTERIOR WINDOWS TO BE TEMPERED SAFETY GLASS THICKNESS AS PER O.B.C. REQUIREMENTS.
3. ANODIZED ALUMINUM FRAMES FOR ALL WINDOWS BY UNITED STATES ALUMINUM OR APPROVED EQUAL.
4. PROVIDE SAFETY GLASS IN WINDOWS AS REQUIRED BY THE ONTARIO BUILDING CODE.

**TYPICAL HANDRAIL / GUARD**



**BARRIER FREE DESIGN DETAILS**



**BARRIER-FREE DESIGN REQUIREMENTS**

- BARRIER-FREE ENTRY DOOR ASSEMBLY NOTES:**
1. ENSURE A MAXIMUM DIFFERENCE IN ELEVATION OF 12mm AT NOTED BUILDING ENTRY. DOOR NUMBER 101 & 104 TO ACCOMMODATE BARRIER-FREE ACCESSIBILITY INTO THE FACILITY. USE DESIGNATED BARRIER-FREE DOOR SILL.
- BARRIER FREE ACCESSIBILITY NOTES:**
1. WORK & ACCESSORIES REQUIRED TO "ACCESSIBLE" WASHROOMS:
    1. PROVIDE ONE TILT MIRROR DESIGNATED AS "ACCESSIBLE".
    2. INSULATE WASTE & HOT WATER SUPPLY PIPING AT USE OF LAVATORY.
    3. WALL HUNG LAVATORY SHALL BE EQUIPPED WITH APPROVED "WING-HANDLED" TRIM.
    4. MOUNT ALL FIXTURES AND ACCESSORIES AT AS INDICATED.
    5. ENSURE MINIMUM 600 CLEARANCE FROM JAMB TO IN-SWING OF DOORS.
    6. ENSURE MINIMUM 300 CLEARANCE FROM JAMB TO OUT-SWING OF DOORS.
    7. PROVIDE COAT HOOK AT ELEVATION AS INDICATED.
  2. GRAB BARS TO ACCESSIBLE WASHROOM (ABLE TO SUPPORT 300 LB. CAPACITY):
    1. SIDE BAR TO BE MOUNTED AS INDICATE. PROVIDE SOLID BACK SUPPORT FOR ANCHORS. PROVIDE 50mm CLEAR BETWEEN BAR AND WALL.
    2. BACK BAR TO BE MOUNTED AS INDICATED. PROVIDE SOLID BACK SUPPORT FOR ANCHORS. PROVIDE 50mm CLEAR BETWEEN BAR AND WALL.

**ROOM FINISH SCHEDULE**

No.	Room Name	North Wall		East Wall		South Wall		West Wall		Floor		Ceiling		Comments	
		Material	Finish	Material	Finish	Material	Finish	Material	Finish	Material	Finish	Material	Finish		
101	COMMON OFFICE	GWB	PT	GWB	PT	GWB	PT	GWB	PT	VCT	CLIENT	GWB	PT		
102	LUNCH ROOM	GWB	PT	GWB	PT	GWB	PT	GWB	PT	VCT	CLIENT	GWB	PT		
103	STAIR	GWB.X	PT	GWB.X	PT	GWB.X	PT	GWB.X	PT	RBR	CLIENT	GWB.X	PT	COMMERCIAL RUBBER ROLL FLOORING LANDINGS & STAIR TREADS / RISERS	
104	HALL	GWB	PT	GWB	PT	GWB	PT	GWB	PT	VCT	CLIENT	GWB	PT		
105	OFFICE	GWB	PT	GWB	PT	GWB.X	PT	GWB	PT	VCT	CLIENT	GWB	PT		
106	ENTRY	GWB	PT	GWB	PT	GWB.X	PT	GWB	PT	VCT	CLIENT	GWB	PT		
107	UNIVERSAL W/R	GWB	PT	GWB	PT	GWB.X	PT	GWB	PT	VCT	CLIENT	GWB	PT		
108	LAVATORY	GWB	TILE/PT	GWB	TILE/PT	GWB	TILE/PT	GWB	TILE/PT	TILE	CLIENT	GWB	PT	TILE TO 1400 A.F.F., TILE WALL BASE, TILE OVER MEMBRANE FLOOR SYSTEM	
109	LOCKER	GWB	TILE/PT	GWB	TILE/PT	GWB	TILE/PT	GWB	TILE/PT	TILE	CLIENT	GWB	PT	TILE TO 1400 A.F.F., TILE WALL BASE, TILE OVER MEMBRANE FLOOR SYSTEM	
110	SHOWER	GWB	TILE	GWB	TILE	GWB	TILE	GWB	TILE	TILE	CLIENT	GWB	PT	FULL TILE WALLS, TILE WALL BASE, MEMBRANE FLOOR & WALL SYSTEM	
111	SINGLE TRUCK BAY	PLY	-	PLY	-	PLY	-	GWB.X	PLY	-	CONC	CS	GWB.X	PT	F.R.R. ON SOUTH & WEST WALL REQUIRE GYPSUM BOARD UNDER PLYWOOD
112	SINGLE TRUCK BAY	PLY	-	PLY	-	PLY	-	GWB.X	PLY	-	CONC	CS	GWB.X	PT	F.R.R. ON SOUTH & WEST WALL REQUIRE GYPSUM BOARD UNDER PLYWOOD
001	UNFINISHED BASEMENT	GWB.X	PT	GWB.X	PT	GWB.X	PT	GWB.X	PT	CONC	CS	GWB.X	PT		
002	MECHANICAL AREA	-	-	GWB.X	PT	GWB.X	PT	GWB.X	PT	CONC	CS	GWB.X	PT		

NOTES:  
- SEE WALL SCHEDULE FOR FURTHER DETAILS  
- FINAL FINISH MATERIALS TO BE CONFIRMED BY CLIENT PRIOR TO CONSTRUCTION

**OBC MATRIX**

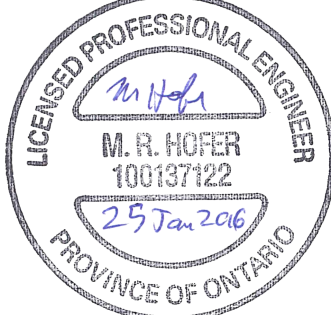
Item	Ontario's 2012 Building Code Data Matrix Part 3 or 9			OBC Reference										
	Description	Part 11	Part 3	Part 9	Part 9									
1	Project Description:	<input type="checkbox"/> New <input type="checkbox"/> Change of Use <input type="checkbox"/> Alteration	<input type="checkbox"/> Part 11	<input type="checkbox"/> Part 3	1.1.2 [A] & 1.1.2 [A] & 1.1.2 [A]									
2	Major Occupancy(s) - D (OFFICE) & F3 (GARAGE)				3.1.2.1.(1) 9.10.2									
3	Building Area (m <sup>2</sup> )	New "GROUP D" - 133 Total "GROUP D" - 133 New "GROUP F3" - 73 Total "GROUP F3" - 73		TOTAL BUILDING AREA = ± 206 SQ.M.	1.4.1.2[A] 1.4.1.2[A]									
4	Gross Area (m <sup>2</sup> )	New "GROUP D" - 133 Total "GROUP D" - 133 New "GROUP F3" - 73 Total "GROUP F3" - 73		BASEMENT N.I.C.	1.4.1.2[A] 1.4.1.2[A]									
5	Number of Storeys	Above Grade - 1 Below Grade - 1			1.4.1.2[A] & 3.2.1.1. 1.4.1.2[A] & 9.10.4.									
6	Number of Streets/Fire Fighter Access - 1				3.2.2.10. & 3.2.5. 9.10.20.									
7	Building Classification - PART 3 GROUP D / F3				3.2.2.7 9.10.2.									
8	General Review Required	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			1.2.2.1.(1) [C] & Table 1.2.2.1. [C]									
9	Sprinklered System Proposed	<input type="checkbox"/> entire building <input type="checkbox"/> selected compartments <input type="checkbox"/> selected floor areas <input type="checkbox"/> in lieu of roof rating <input type="checkbox"/> basement <input checked="" type="checkbox"/> not required			3.2.2. 9.10.8.4. 3.2.1.5. SEE INDEX 3.2.2.17. 9.10.8.2. 3.2.1.5. & 3.2.2.15									
10	Standpipe Required	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			3.2.9. N/A									
11	Fire Alarm Required	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			3.2.4. 9.10.18									
12	Water Service/Supply is Adequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			3.2.5.7. N/A									
13	High Building	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			3.2.6. N/A									
14	Construction Restrictions	<input checked="" type="checkbox"/> Combustible permitted <input type="checkbox"/> Non-combustible required <input type="checkbox"/> Both			3.2.2. 9.10.6.									
	Actual Construction	<input checked="" type="checkbox"/> Combustible <input type="checkbox"/> Non-combustible <input type="checkbox"/> Both												
15	Mezzanine(s) Area (m <sup>2</sup> ) - 0				3.2.1.1.(3)-(8) 9.10.4.1.									
16	Occupant load based on Total	<input type="checkbox"/> m <sup>2</sup> /person <input checked="" type="checkbox"/> design of building Load - 9 persons			3.1.1.7. 9.9.1.3.									
17	Barrier-Free Design	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			3.8. 9.5.2. 3.8.1.1.(1)(c) 9.10.1.3.(4)									
18	Hazardous Substances	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			3.3.1.2. & 3.3.1.9. 9.10.1.3.(4)									
19	Required Fire Resistance Rating	Horizontal Assemblies FRR (hours) Roof - 0.75 hours Mezzanine - 0 hours FRR of Supporting Members - 0.75 hours Roof - 0 hours Mezzanine - 0 hours	Listed Design No. or Description (SB-2 or SB-3) OBC SB-3 F6h OBC SB-3 EW1B	Listed Design No. or Description (SB-2 or SB-3) OBC SB-3 EW1B	3.2.2. & 3.2.1.4. 9.10.8. 9.10.9.									
20a	Spatial Separation - Construction of New Exterior Walls				3.2.3.									
	West	39.2	31.8	<3:1	100	100	0	N/A		x				
	East	32.0	42.7	<3:1	100	100	0	N/A		x				
	North	111.5	10.8	3:1 TO 10:1	84	77	0.75	OBC SB-3 EW1B (BASEMENT ONLY) DOOR / W/N. NOT RATED.		x				
	South Elevation - Area of exposing building face split as per 3.3.2.2.(2). L.D. line at 5.0m from operations office 5.6m from treatment plant													
	South 'D' Main	48.0	5.0	3:1 TO 10:1	41	12	0.75	OBC SB-3 EW1B DOOR / W/N. NOT RATED		x				
	South 'D' Basement	8.9	5.0	>10:1	100	0	0	N/A		x				
	South 'F2'	30.6	5.0	3:1 TO 10:1	61	12	0.75	OBC SB-3 EW1B DOOR / W/N. NOT RATED		x				
21	Plumbing Fixture Requirements	GROUP D AND F - TOTAL OCCUPANT LOAD UNDER 10 PERSONS SINGLE WIC TO SERVE BOTH SEXES									3.7.4.1.(3)	9.31.1.1.(2)(c) 3.7.4.1.(3)		

**ROOM FINISH LEGEND**

CONC - CONCRETE  
GWB - GYPSUM WALL BOARD (FINISHED)  
GWB.X - GYPSUM WALL BOARD (UNFINISHED)  
WD - WOOD SHEATHING OR FRAMING  
PT - PAINT (COLOUR TO BE SELECTED BY OWNER)  
PLY - PLYWOOD  
CS - CONCRETE FINISHED & SEALED WITH CHEMICAL SEALER/HARDNER  
TILE - TILE (COLOUR/PATTERN AS PER CLIENT)  
VCT - RESILIENT TILE FLOORING (VINYL COMPOSITION TILE/HARDWARE PATTERN AS PER CLIENT)  
RBR - COMMERCIAL RUBBER (COLOUR AS PER CLIENT)

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No.	Issue / Revision	Date	Auth.
1	ISSUED FOR CLIENT REVIEW	DEC. 2015	
2	ISSUED FOR TENDER	DEC. 2015	
3	REVISED AS PER ADDENDUM NO. 2	JAN. 2016	



**FOR TENDER**



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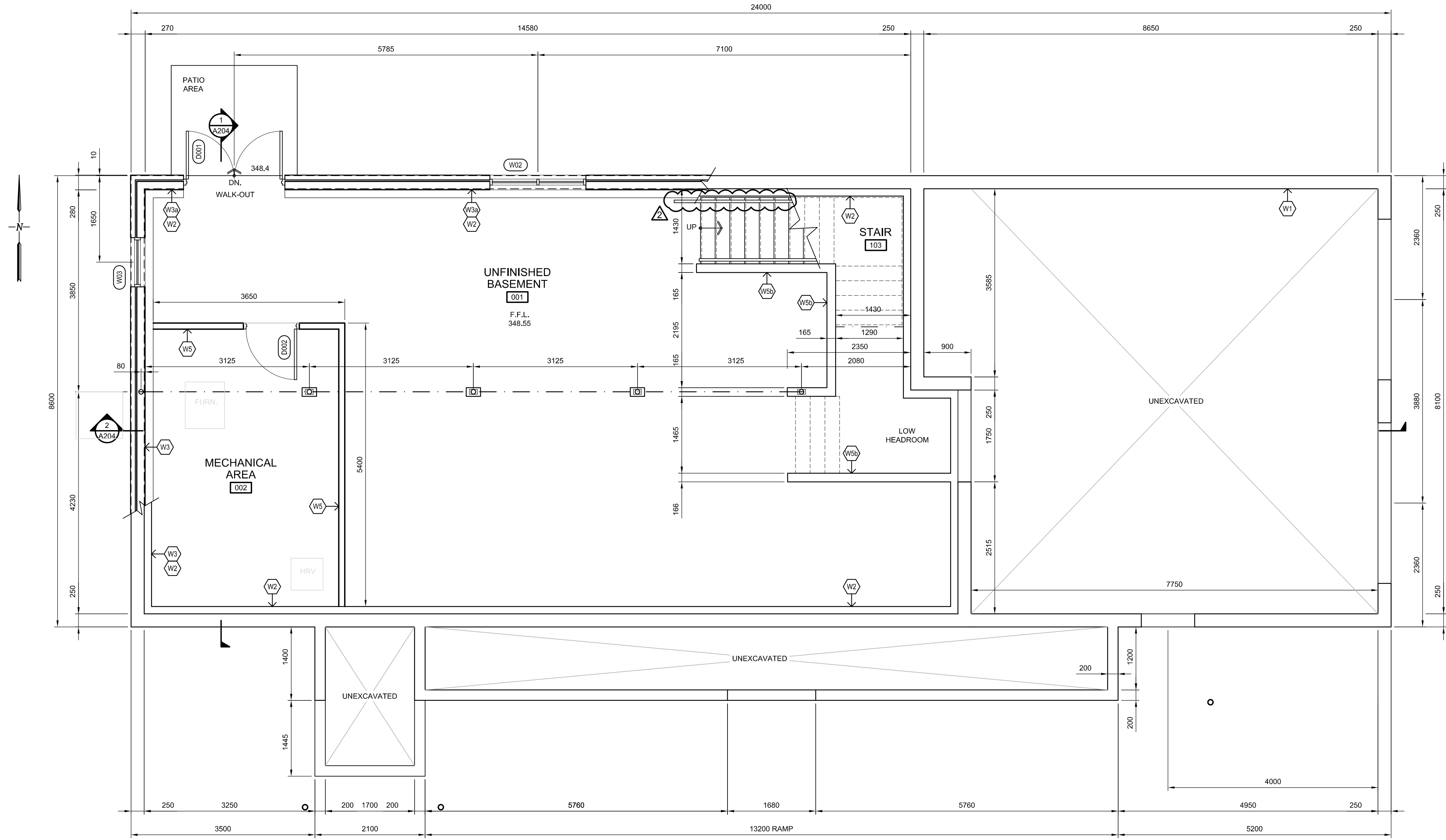
Drawing Title:  
**ALMA ST. WASTEWATER PRETREATMENT FACILITY UPGRADES SCHEDULES & DETAILS**

Client:  
**TOWNSHIP OF GUELPH / ERAMOSHA**

8348 WELLINGTON ROAD 124, P.O. BOX 700  
ROCKWOOD, ON  
N0B 2K0

Drawn	Checked	Designed	Checked	Date	Drawing No.
T.T.	M.H.	T.T.	M.H.		
MSA14381.0062	MSA14381.0062	MSA14381.0062	MSA14381.0062	JAN. 2015	<b>A200</b>

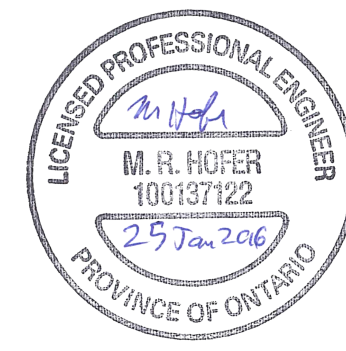




1 FOUNDATION PLAN  
A201 SCALE 1:50

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FOR TENDER



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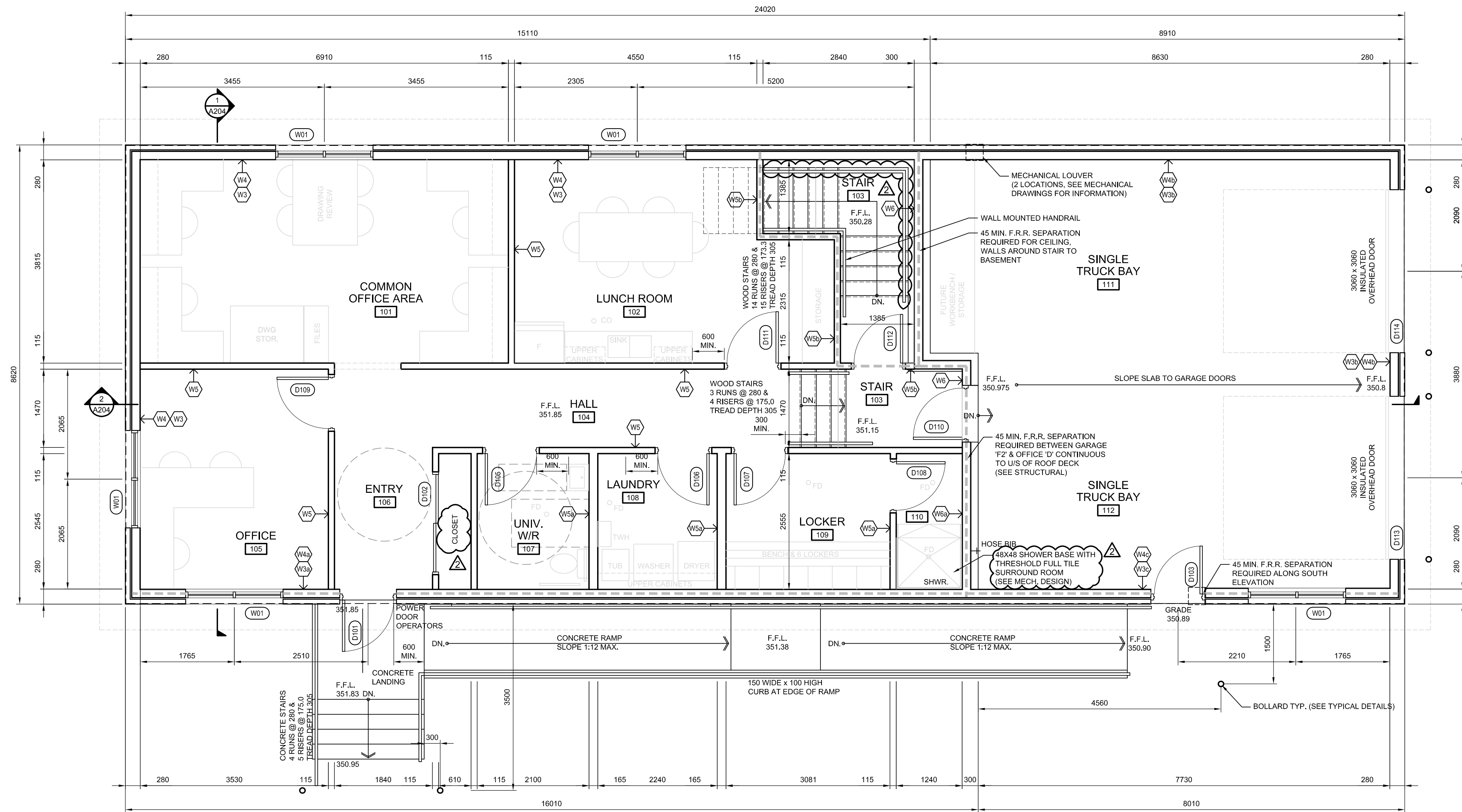
Client:  
**TOWNSHIP OF GUELPH / ERAMOSA**  
 8348 WELLINGTON ROAD 124, P.O. BOX 700  
 ROCKWOOD, ON  
 N0B 2K0

Drawing Title:  
**ALMA ST. WASTEWATER PRETREATMENT FACILITY UPGRADES ARCHITECTURAL FOUNDATION FLOOR PLAN**

Drawn	Checked	Designed	Checked	Date	Drawing No.
T.T.	M.H.	T.T.	M.H.	JAN. 2015	A201
Project No.	Contract No.	Contract No.	Revision No.		
MSA143810.0062	MSA143810.0062	MSA143810.0062	2		
Scale:	AS NOTED				

File: \\BURN\CLIENT\ERAMOSA\ERAMOSA\MSA143810\_0062\ERAMOSA\WORK\2015\12\2015\_0122.dwg Date Plotted: January 22, 2016 10:22 AM





**1** MAIN FLOOR PLAN  
A202 SCALE 1:50

GROUP D OFFICE AREA = ± 133 sq.m.  
GROUP F2 GARAGE = ± 73 sq.m.  
TOTAL BUILDING AREA = ± 206 sq.m.

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  - This drawing is to be read and understood in conjunction with all other plans and documents applicable to this project.

No.	Issue / Revision	Date	Auth.
1	ISSUED FOR CLIENT REVIEW	DEC. 2015	
2	ISSUED FOR TENDER	DEC. 2015	
3	REVISED AS PER ADDENDUM NO. 2	JAN. 2016	



**FOR TENDER**



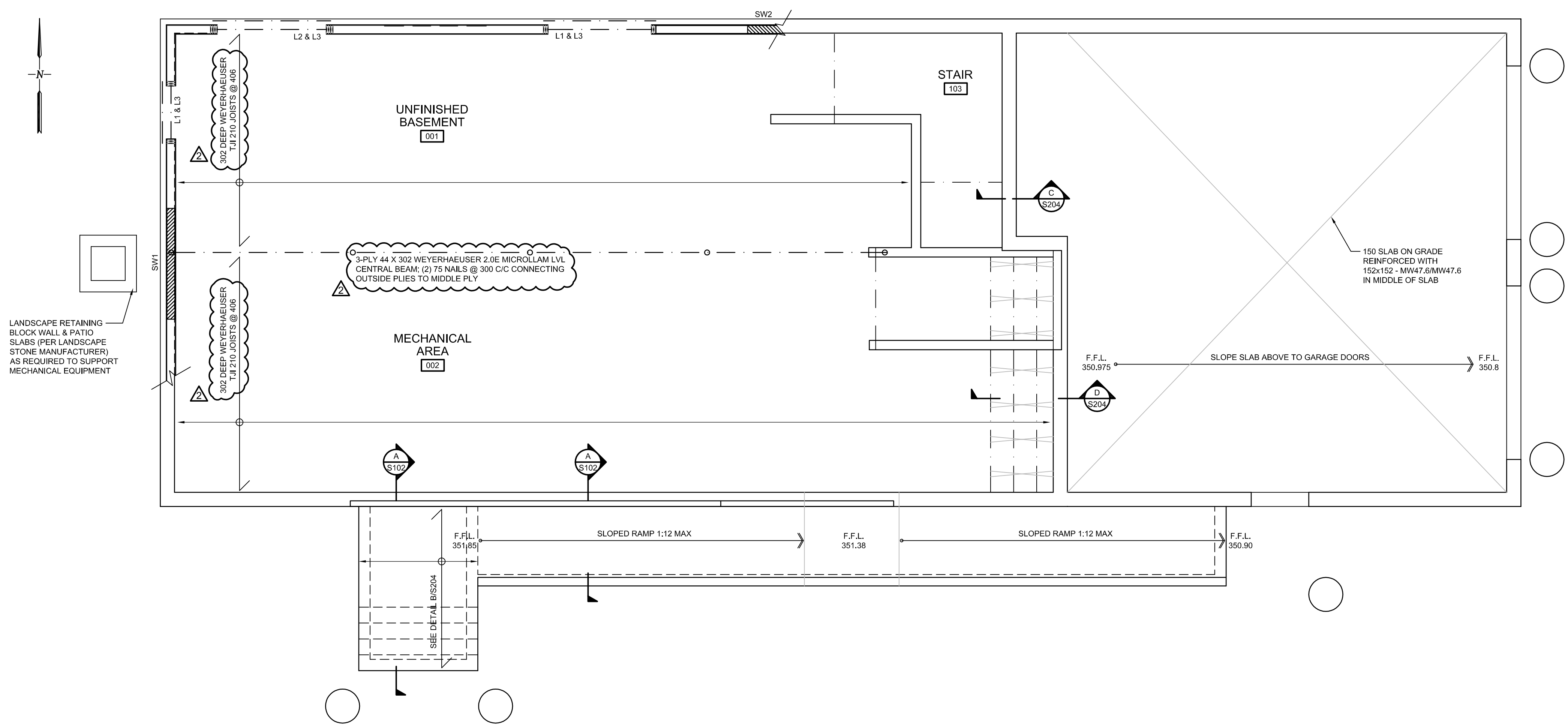
R.J. Burnside & Associates Limited  
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Client:  
**TOWNSHIP OF GUELPH / ERAMOSHA**  
8348 WELLINGTON ROAD 124, P.O. BOX 700  
ROCKWOOD, ON  
N0B 2K0

Drawing Title:  
**ALMA ST. WASTEWATER PRETREATMENT FACILITY UPGRADES ARCHITECTURAL MAIN FLOOR PLAN**

Drawn	Checked	Designed	Checked	Date	Drawing No.
T.T.	M.H.	T.T.	M.H.	JAN. 2015	<b>A202</b>
Project No.	Contract No.	Revision No.			
MSA143810.0062	MSA143810.0062	2			
Scale:	AS NOTED				

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**1** MAIN FLOOR FRAMING & SUPPORT  
S202 SCALE 1:50

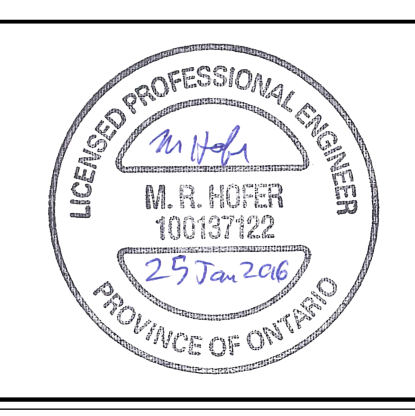
NOTE:  
FLOOR DESIGNED FOR THE FOLLOWING LOADS:  
LIVE LOAD = 4.8kPa  
SUPERIMPOSED D.L. (FLOORING, M&E ALLOWANCE) = 0.4kPa

Notes

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**FOR TENDER**

No.	Issue / Revision	Date	Auth.
1	ISSUED FOR CLIENT REVIEW	DEC. 2015	
2	ISSUED FOR TENDER	DEC. 2015	
3	REVISED AS PER ADDENDUM NO. 2	JAN. 2016	



**BURNSIDE**

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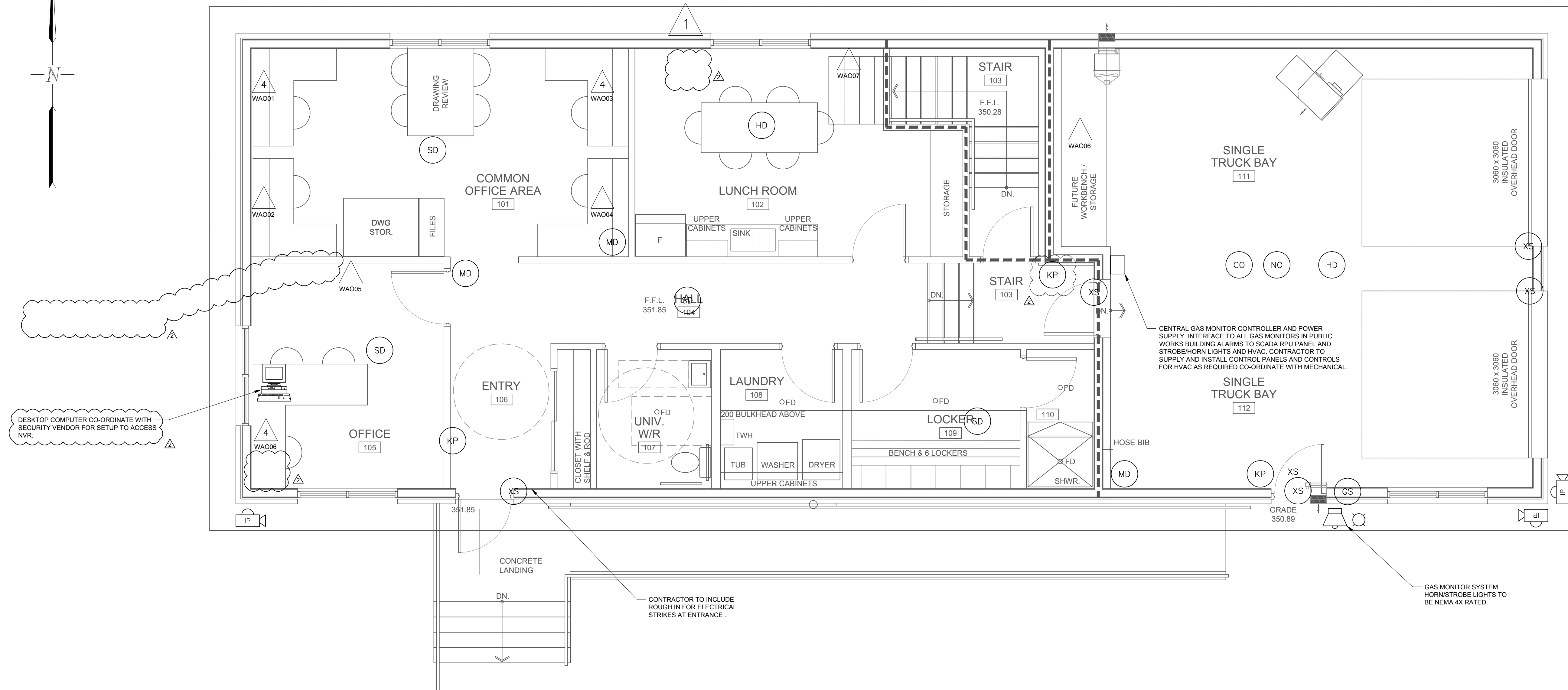
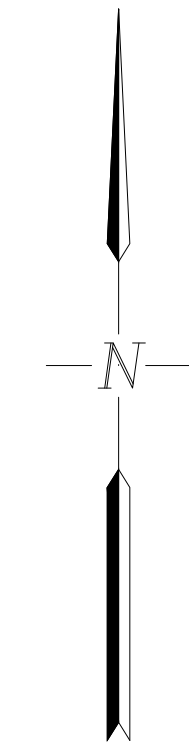
Client:  
**TOWNSHIP OF GUELPH / ERAMOSIA**  
8348 WELLINGTON ROAD 124, P.O. BOX 700  
ROCKWOOD, ON  
N0B 2K0

Drawing Title:  
**ALMA ST. WASTEWATER PRETREATMENT FACILITY UPGRADES**  
STRUCTURAL MAIN FLOOR SUPPORT

Drawn	Checked	Designed	Checked	Date	Drawing No.
T.T.	M.H.	C.S.	M.H.	JAN. 2015	S202
Project No. MSA143810.0062	Contract No. MSA143810.0062	Revision No. 2			
Scale AS NOTED					

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**MAIN FLOOR I&C PLAN**  
SCALE 1:50

LEGEND			
TYPE	MANUFACTURER	TYPE	MANUFACTURER
△	2 PORT WORK AREA OUTLET	4	4 PORT WORK AREA OUTLET
SD	SMOKE DETECTOR	HD	HEAT DETECTOR
KP	SECURITY KEYPAD	IP	IP CAMERA
GS	GLASS BREAK SENSOR	CO	CARBON MONOXIDE DETECTOR (NOTE 5)
MD	MOTION DETECTOR	NO	NITROGEN DIOXIDE (NOTE 5)
XS	DOOR CONTACT		

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No.	Issue / Revision	Date	Auth.
1	ISSUED FOR MOECC ECA	FEB. 2015	JW
2	ISSUED FOR 90% REVIEW	OCT. 2015	JW
3	ISSUED FOR TENDER	DEC. 2015	JW
4	REVISED AS PER ADDENDUM No. 2	JAN 2016	JW

NOTE:  
 1. ALL ELECTRICAL WORK, WIRING METHOD, EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE ONTARIO ELECTRICAL SAFETY CODE.  
 2. ALL DOOR CONTACTS GLASS BREAK SENSORS, SMOKE DETECTORS MOTION AND SECURITY KEYPADS TO BE SUPPLIED BY SECURITY SYSTEMS VENDOR. INSTALLATION IN THE FIELD WITH WIRING AND CONDUIT BACK TO MAIN SECURITY PANEL TO BE BY THE CONTRACTOR. CO-ORDINATE WITH VENDOR AS REQUIRED FOR ALL INSTALLATION AND TESTING.  
 3. ALL CAT6 CABLING FOR PHONE AND DATA TO BE ROUTED IN GROUNDED RIGID CONDUIT TO BASEMENT DEMARCATION POINT AND TERMINATED ON PATCH PANEL FOR SECURITY CAMERAS LOCATIONS WITH ROUTING AND CAT6 CABLING ROUTED TO BASEMENT.  
 4. ROUTE IN FOR IP CAMERAS TO BE MOUNTED APPROXIMATELY 3048mm FROM GRADE. CONFIRM WITH SECURITY SUPPLIER ON SITE.  
 5. CARBON MONOXIDE AND NITROGEN DIOXIDE DETECTORS PANELS, LIGHTS, HORNS, ETC. SUPPLIED AS PER M201. ROUTE ALARM CONTACTS BACK TO RPU PANEL IN TREATMENT PLANT AND NOT THE SECURITY SYSTEM.



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 N0B 2K0

Drawn	Checked	Designed	Checked	Date	Drawing No.
AA	S.M.	E.Y.	J.W.	OCT 2015	
Project No.	Contract No.	Revision No.			
MSA143810.0062	MSA143810.0062	1			
Scale	NOT TO SCALE				
	<b>1201</b>				

**FOR TENDER**

File: C:\Users\mash@burnside.com\Documents\Projects\100117 - Alma St. Sewage Plant - Electrical Plans\100117 - Alma St. Sewage Plant - Electrical Plans - January 2016 - 1201.dwg