



UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
NEQOTKUK, N.B.  
PROJECT No. 2308072  
CLIENT PROJECT No. F-23-NQ-01

ISSUED FOR TENDER

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P01	P&ID LEGEND 1		
P02	P&ID LEGEND 2		
P03	P&ID LEGEND 3		
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Client:	ATLANTIC FIRST NATIONS WATER AUTHORITY
Project:	UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01 PROJECT No. 2308072



NOTES				

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## GENERAL NOTES

1. THE HORIZONTAL AND VERTICAL DATUM UTILIZED: NAD83 (CSRS) NEW BRUNSWICK DOUBLE STEREOGRAPHIC PROJECTION AND THE CANADIAN GEODETIC VERTICAL DATUM OF 1928 (CGVD28).
2. ALL ELEVATIONS ARE IN METERS (m).
3. SAFETY SIGNS TO BE INSTALLED PRIOR TO START OF CONSTRUCTION AND IN ACCORDANCE WITH WITH THE NBDTI WORK AREA TRAFFIC CONTROL MANUAL.
4. ALL UTILITY POLES TO BE SUPPORTED DURING CONSTRUCTION, INCIDENTAL TO THE WORK. CONTRACTOR TO CONTACT UTILITY COMPANY PRIOR TO EXCAVATION WITHIN 3.0m OF ANY POLES.
5. SILT FENCING AND EROSION CONTROL STRUCTURES TO BE INSTALLED AS PER THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN.
6. CLEAN-UP TO BE DONE ON A DAILY BASIS. DUST TO BE CONTROLLED WITH WATER AS REQUIRED, AS DIRECTED BY THE ENGINEER, MINIMUM ONCE A DAY.
7. THE CONTRACTOR IS RESPONSIBLE TO RETAIN A LAND SURVEYOR CURRENTLY LICENSED TO PRACTICE IN THE PROVINCE OF NB TO REPLACE ANY KNOWN PROPERTY MARKERS THAT ARE DISTURBED BY THE CONTRACTOR, INCIDENTAL TO THE WORK.
8. THE CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING PIPING PRIOR TO PIPE INSTALLATION.
9. THE CONTRACTOR SHALL ENSURE THAT ALL UNDERGROUND UTILITIES, NATURAL GAS LINES AND MUNICIPAL SERVICES ARE LOCATED IN THE FIELD BEFORE THE START OF EXCAVATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES, INCIDENTAL TO THE WORK.
10. ALL DISTURBED AREAS SHALL BE REINSTATED TO PREVIOUS CONDITIONS OR BETTER; IN ACCORDANCE WITH THE SPECIFICATIONS.
11. ALL GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH 100mm OF TOPSOIL AND HYDROSEED, AS SHOWN ON DRAWINGS.
12. THE CONTRACTOR MUST ENSURE THAT ACCESS TO THE FACILITY IS MAINTAINED DURING CONSTRUCTION FOR THE AFNWA OPERATIONS CREWS.
13. REFER TO SPECIFICATIONS FOR CONSTRUCTION SEQUENCE AND GEOTECHNICAL INFORMATION.
14. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE PERMITS.
15. PROPERTY LINES AND RIGHT OF WAYS TAKEN FROM SERVICE NEW BRUNSWICK PROPERTY MAPS.
16. REFER TO SPECIFICATION FOR SLUDGE SURVEY SUMMARY LETTER FOR DETAILS ON SLUDGE VOLUMES AND APPROXIMATE LOCATIONS.
17. ALL EQUIPMENT SHALL BE NEW, UNLESS OTHERWISE SPECIFIED.
18. CONTRACTOR IS TO PROVIDE A MINIMUM OF 24 HOURS NOTICE TO REQUEST FOR INTERRUPTION OF SERVICE REQUIRED TO UNDERTAKE THE WORK.

CONTROL POINT (m)			
NB MON. No.	NORTHING	EASTING	ELEV.
15232	7527193.635m	2407867.536m	80.284m

ITEM	GENERAL LEGEND	
	EXISTING	NEW
WATER MAIN	— W —	— W —
SANITARY SEWER	— S —	— S —
SEWER PRESSURE PIPE	— FM —	— FM —
STORM SEWER	— ST —	— ST —
AIR LINE	— AIR —	— AIR —
SANITARY MANHOLE	○	●
STORM MANHOLE	⊕	⊕
VALVE	⊕	⊕
FIRE HYDRANT	⊕	⊕
CURB STOP	⊕	⊕
BENDS	⋈	⋈
TEE	⋈	⋈
CAP OR PLUG	⋈	⋈
REDUCER	⋈	⋈
SLEEVE OR COUPLING	⋈	⋈
UTILITY POLE	⊕	⊕
TREE	⊕	⊕
WELL	⊕	⊕
ASPHALT DRIVEWAY	A	A
GRAVEL DRIVEWAY	G	G
FENCE	— x —	— x —
CULVERT	— x —	— x —
TREE LINE	— x —	— x —
EROSION CONTROL STRUCTURE	— x —	— x —
WATERCOURSE	— x —	— x —
DITCH	— x —	— x —
SILT FENCING	— x —	— x —



PROJECT TITLE	
UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01	
NEQOTKUK	N.B.

DRAWING TITLE	
OVERALL LOCATION PLAN AND GENERAL NOTES	

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	Checked By	Cadd Check
	KKM	TS
	Sheet	01 of 09

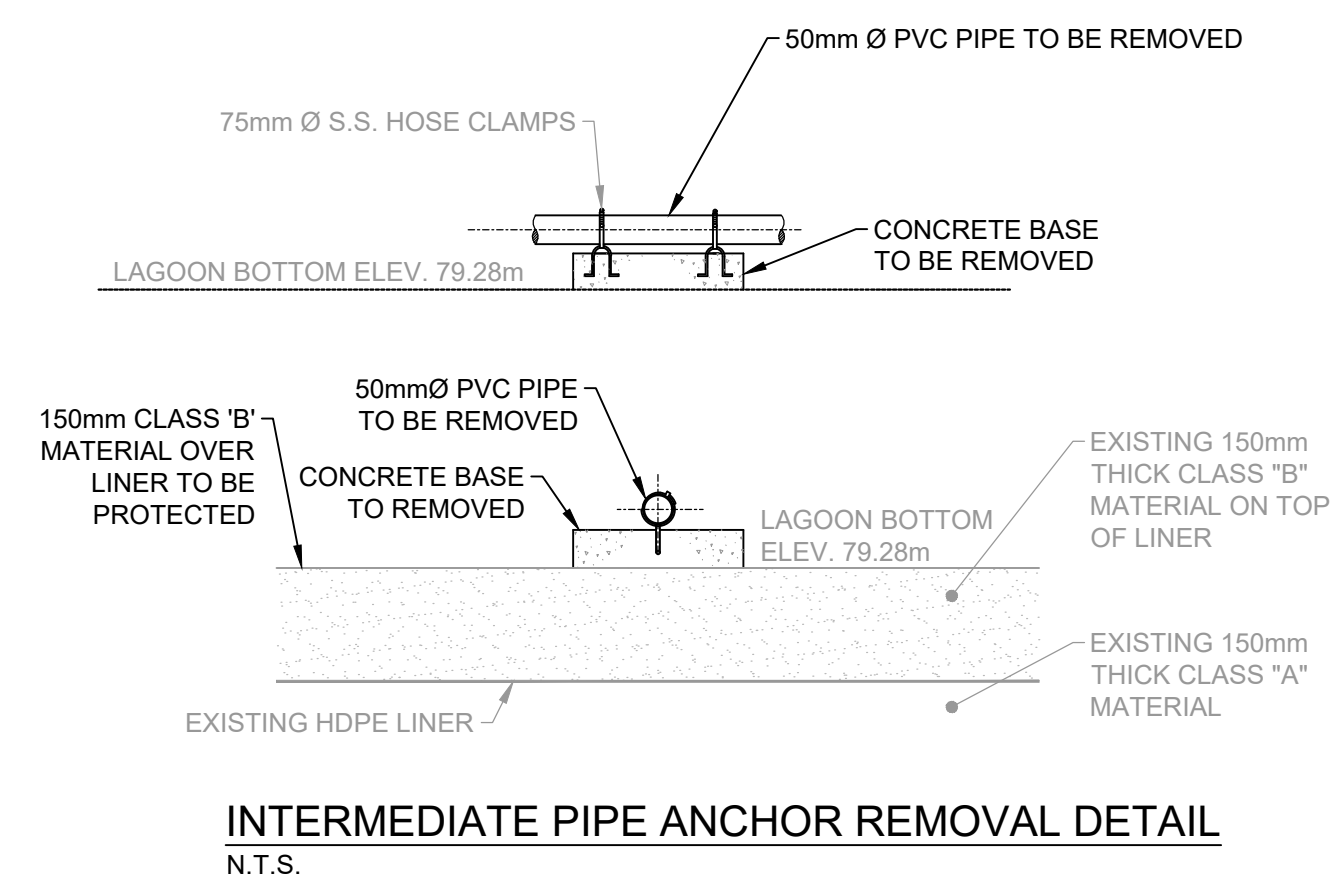
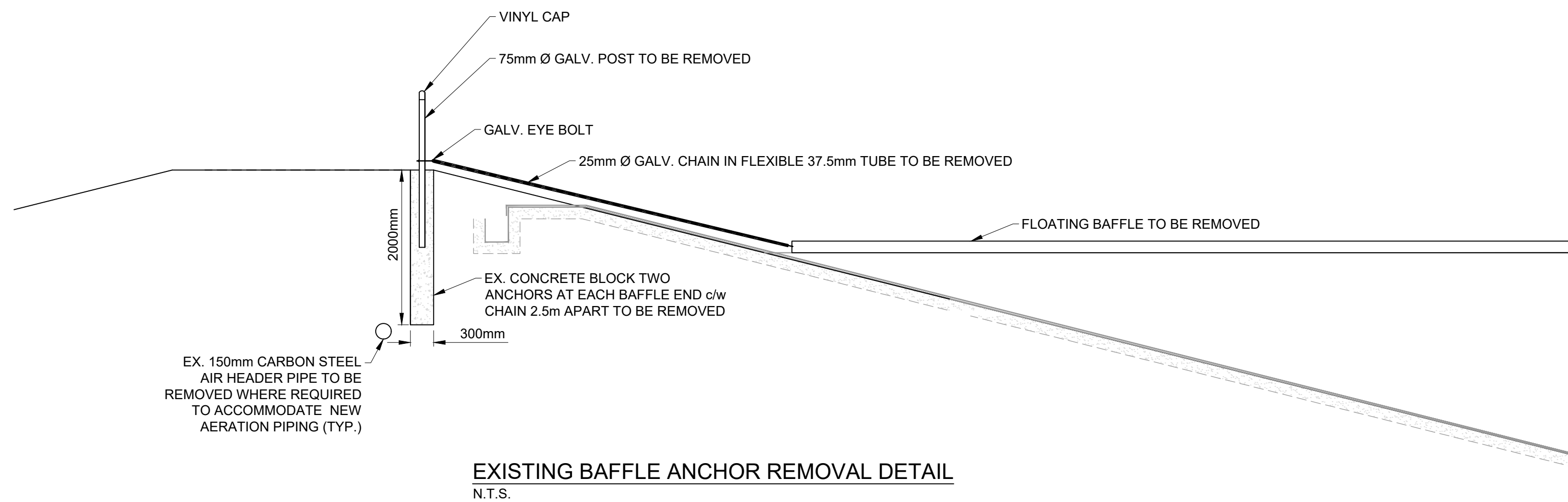
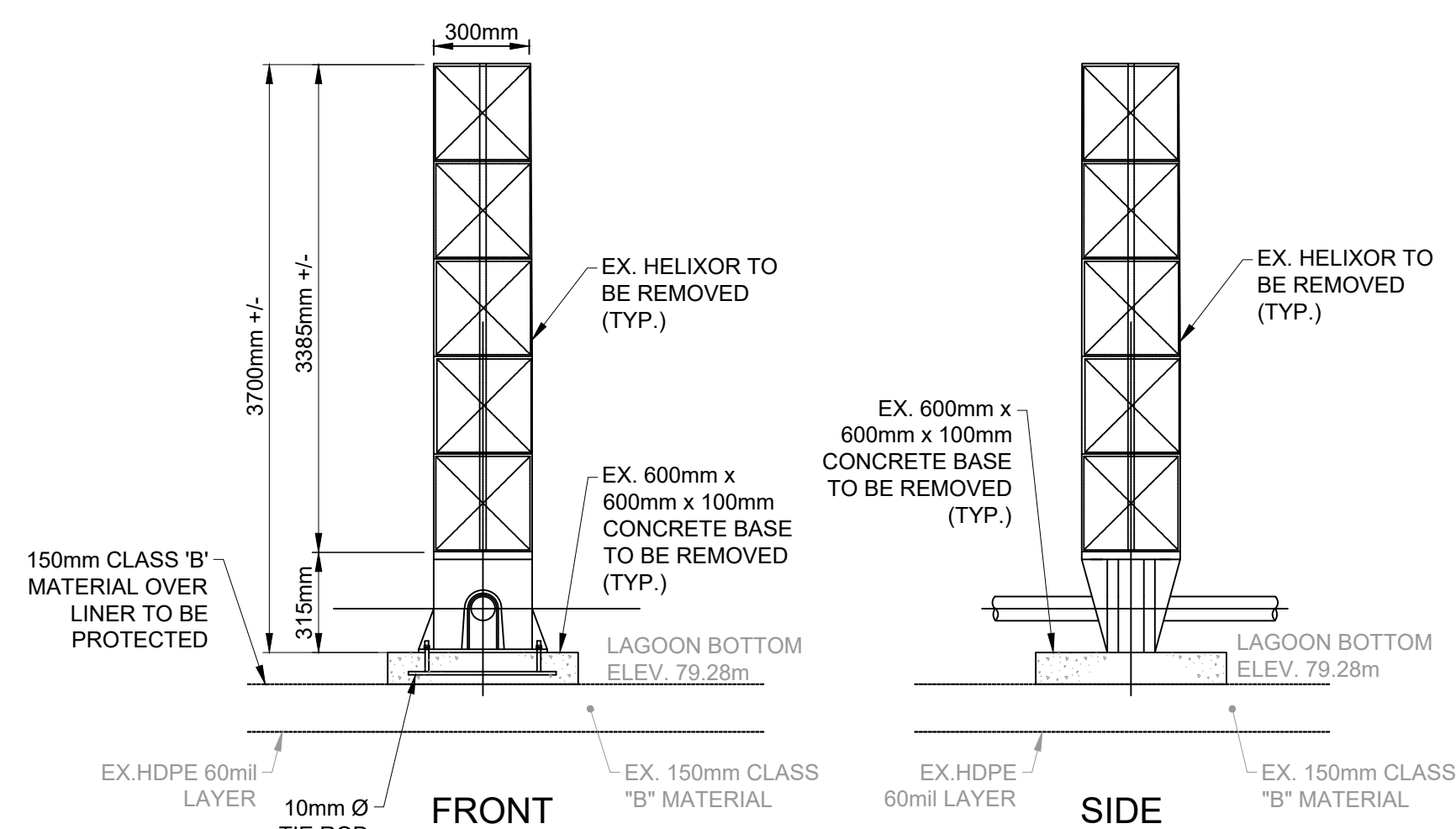
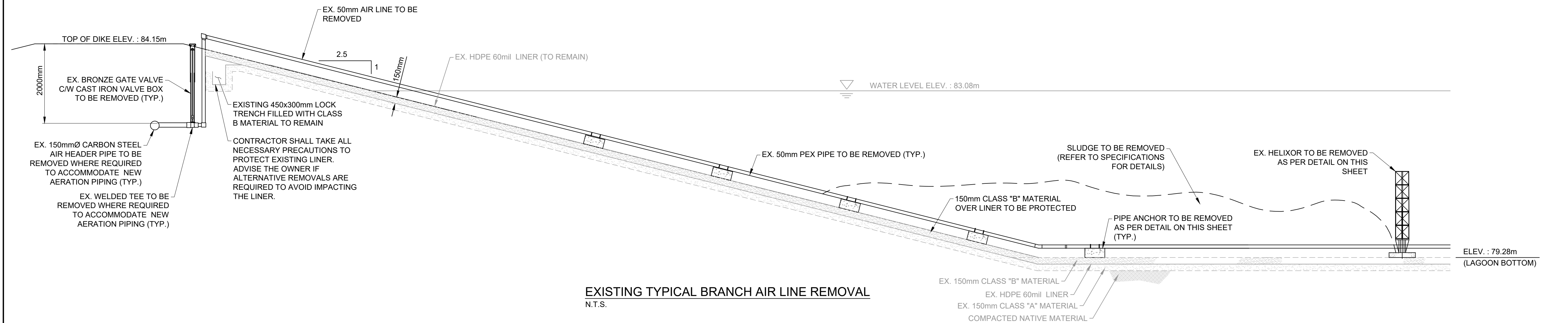
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Drawing No.	C01
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## NOTES

1. REFER TO DRAWING C01 FOR GENERAL NOTES.
2. REFER TO DRAWING C02 FOR EXISTING CONDITIONS AND REMOVAL PLAN.
3. ALL DEMOLITIONS AND REMOVALS ARE TO BE DISPOSED IN ACCORDANCE WITH SECTION 02 41 15.

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NEQOTKUK	N.B.
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DRAWING TITLE

## EXISTING CONDITIONS AND REMOVAL SECTIONS

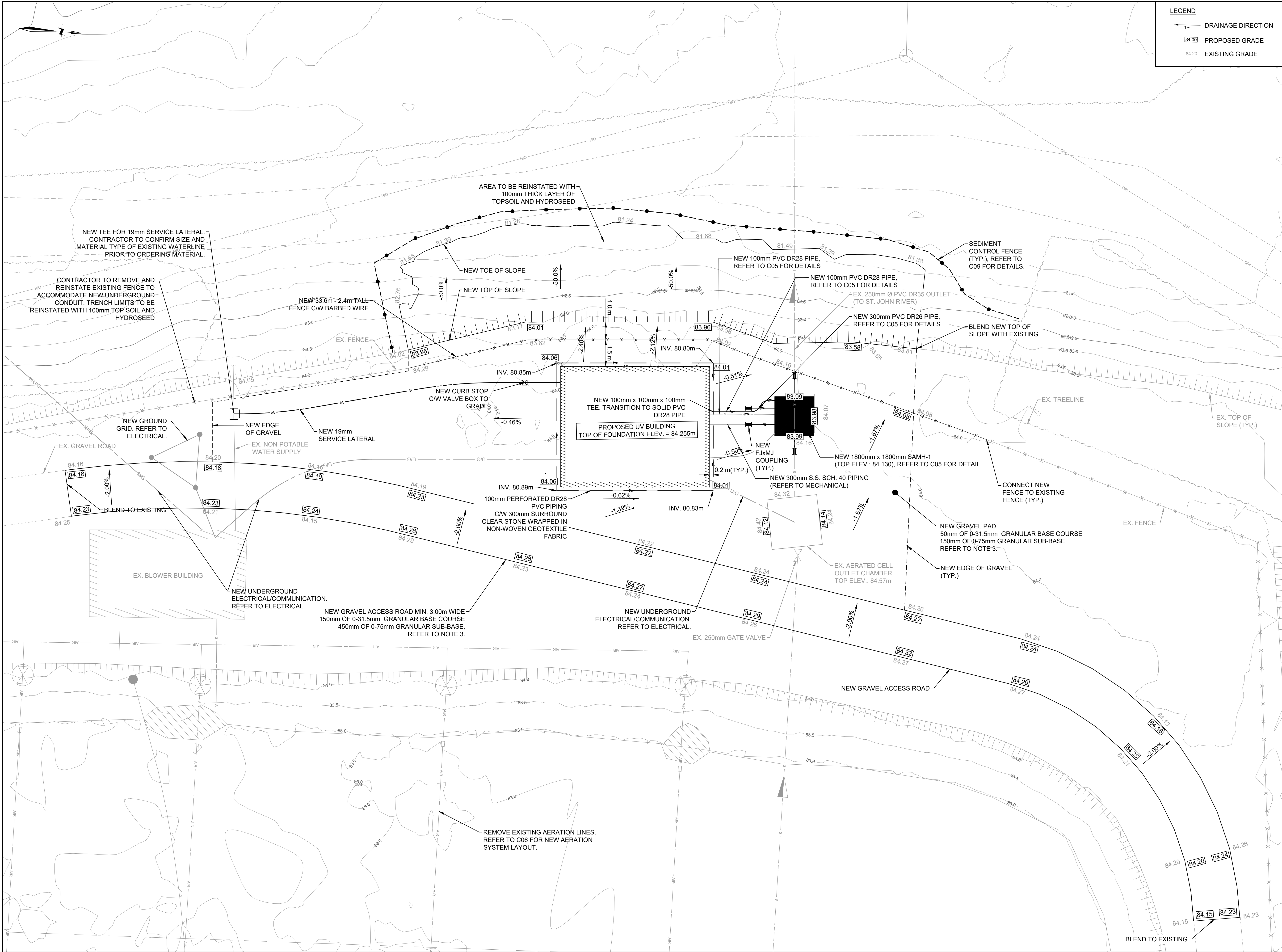
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Drawing No. C03



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**LEGEND**

- 1% DRAINAGE DIRECTION
- 84.00 PROPOSED GRADE
- 84.20 EXISTING GRADE

NOTES

- REFER TO DRAWING C01 FOR GENERAL NOTES.
- REFER TO GEOTECHNICAL REPORT IN THE SPECIFICATIONS.
- NEW GRANULAR BASE AND GRANULAR SUB-BASE TO BE COMPACTED TO 95% MAX. DRY DENSITY AS PER ASTM D698.
- REFER TO DRAWING C05 FOR NEW UV BUILDING BY PASS MANHOLE PLAN, PROFILE AND DETAIL.
- REFER TO ELECTRICAL DRAWINGS OF BURIED CONDUIT LOCATION AND DETAILS.
- REFER TO DRAWING C02 FOR EXISTING CONDITIONS AND REMOVAL PLAN.
- REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DETAILS.

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**UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01**

NEQOTKUK N.B.

DRAWING TITLE

**NEW UV BUILDING SITE SERVICING AND GRADING PLAN**

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	Checked By	Cadd Check
	KKM	TS
Sheet 04 of 09		

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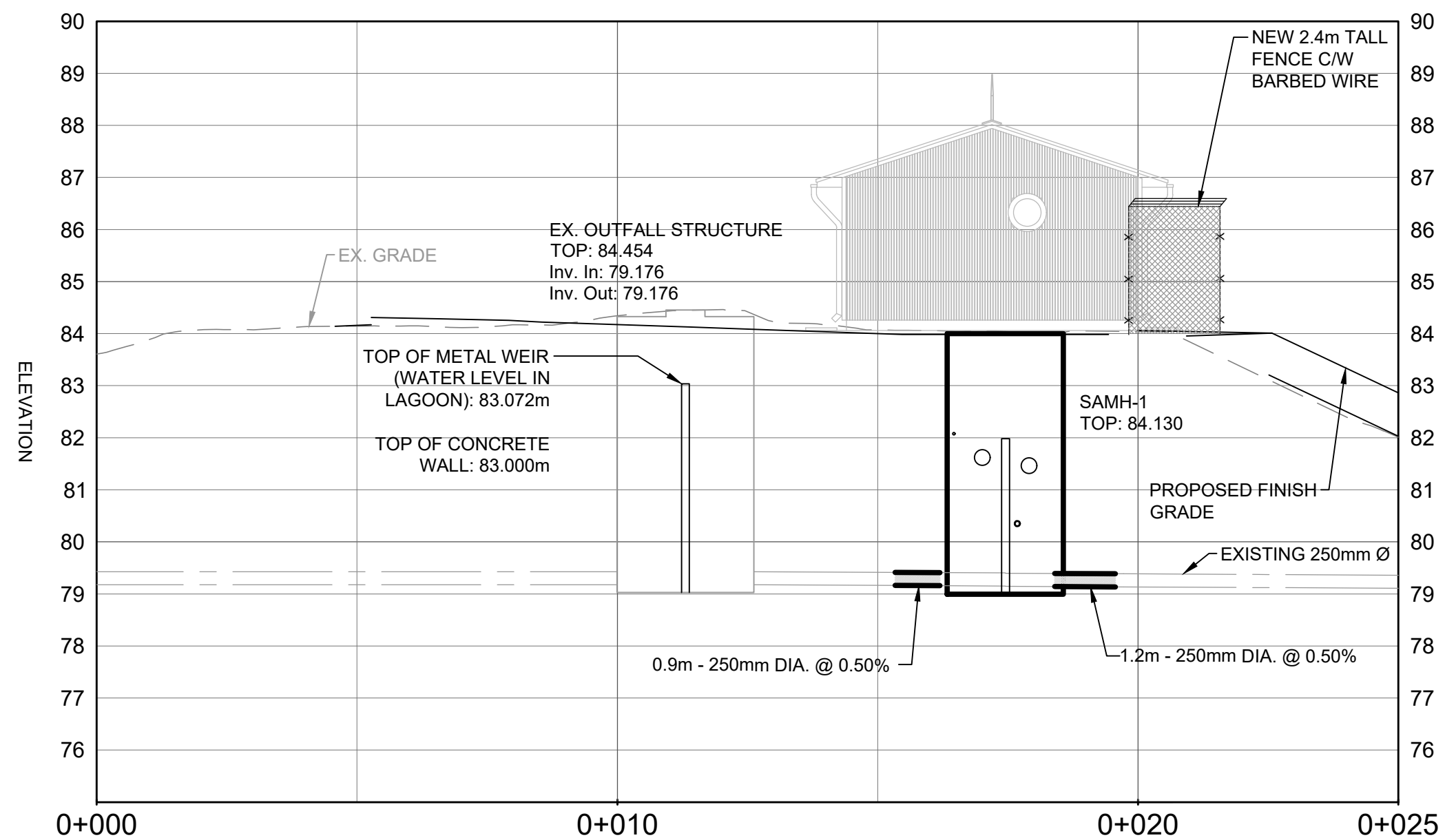
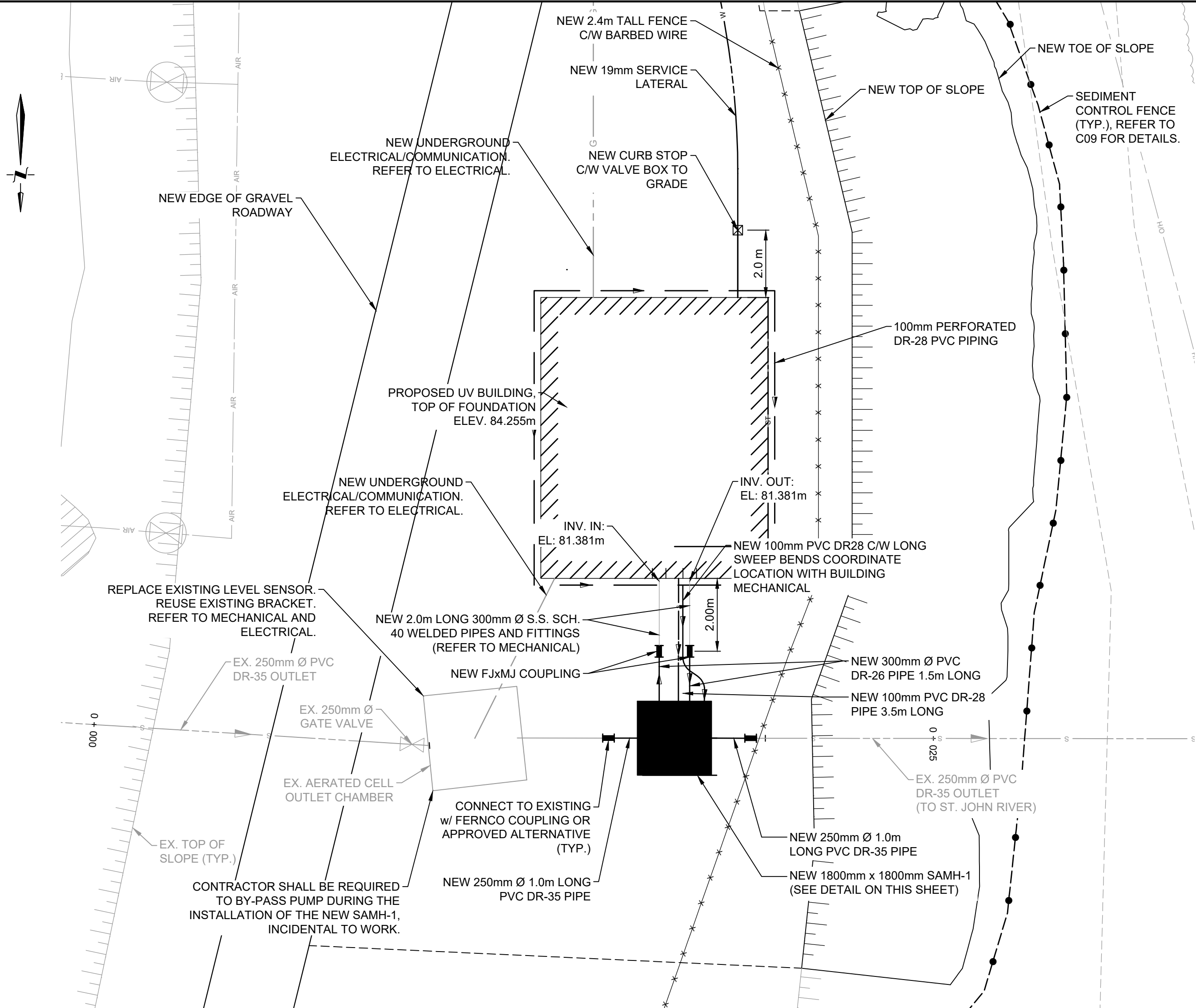
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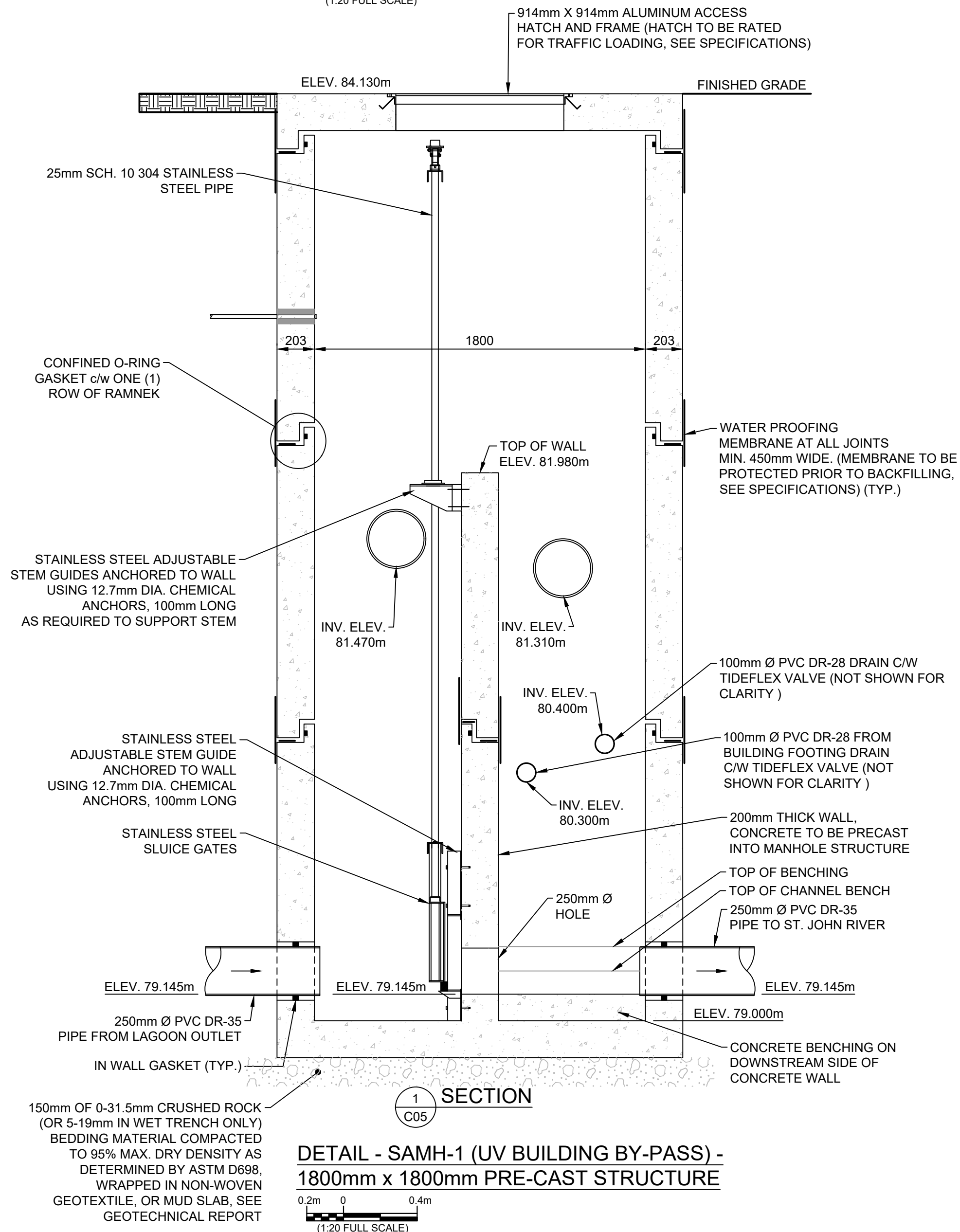
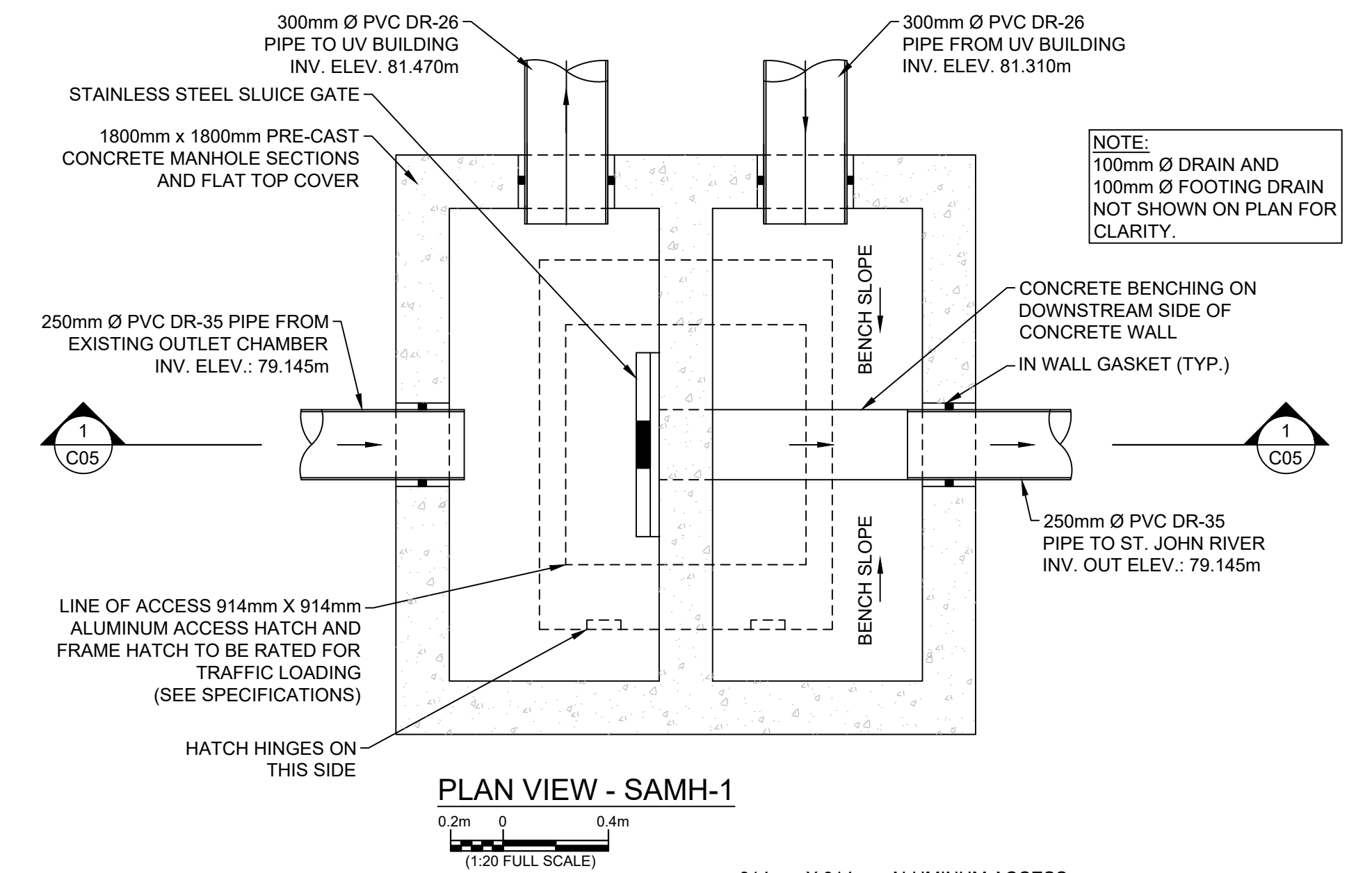
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STRUCTURE COORDINATES		
STRUCTURE	EASTING	NORTHING
SAMH-1	2406736.052	7532345.334



#### NOTES

1. REFER TO DRAWING C01 FOR GENERAL NOTES.

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NEQOTKUK N.B.

DRAWING TITLE

NEW UV BUILDING BY-PASS MANHOLE AND PIPING - PLAN AND PROFILE

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	Sheet	05 of 09

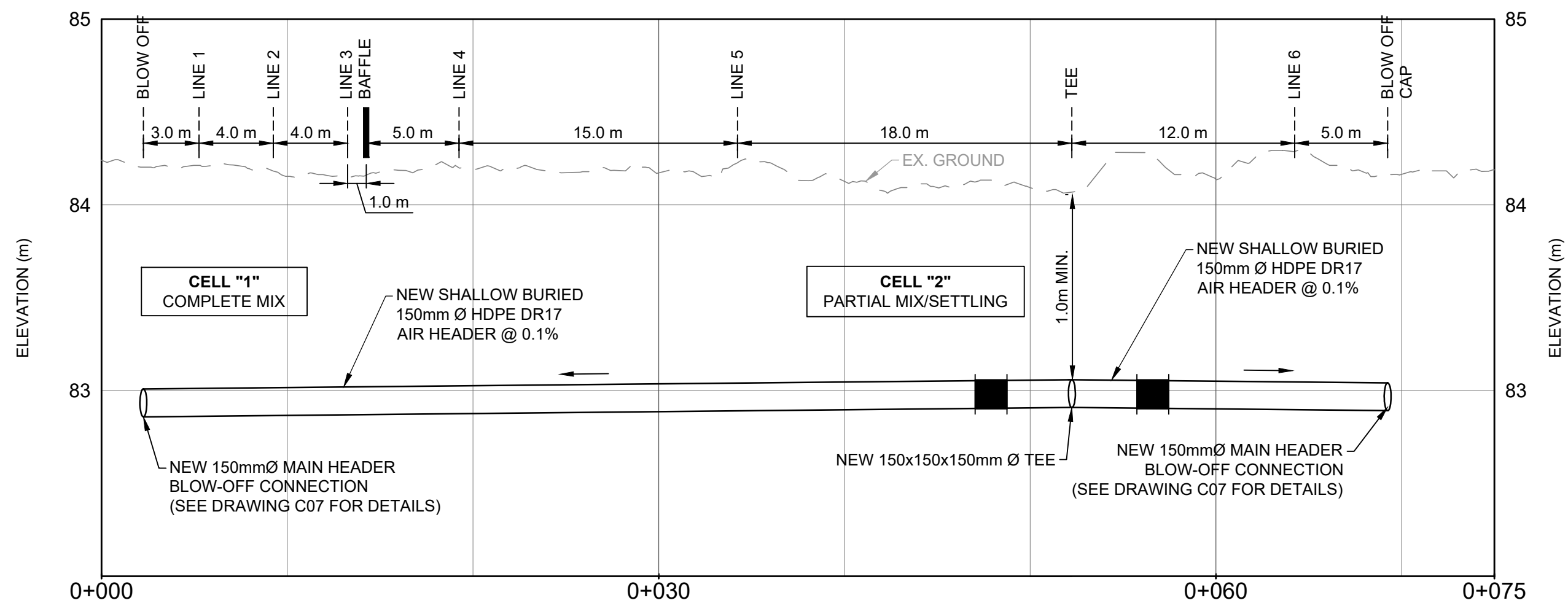
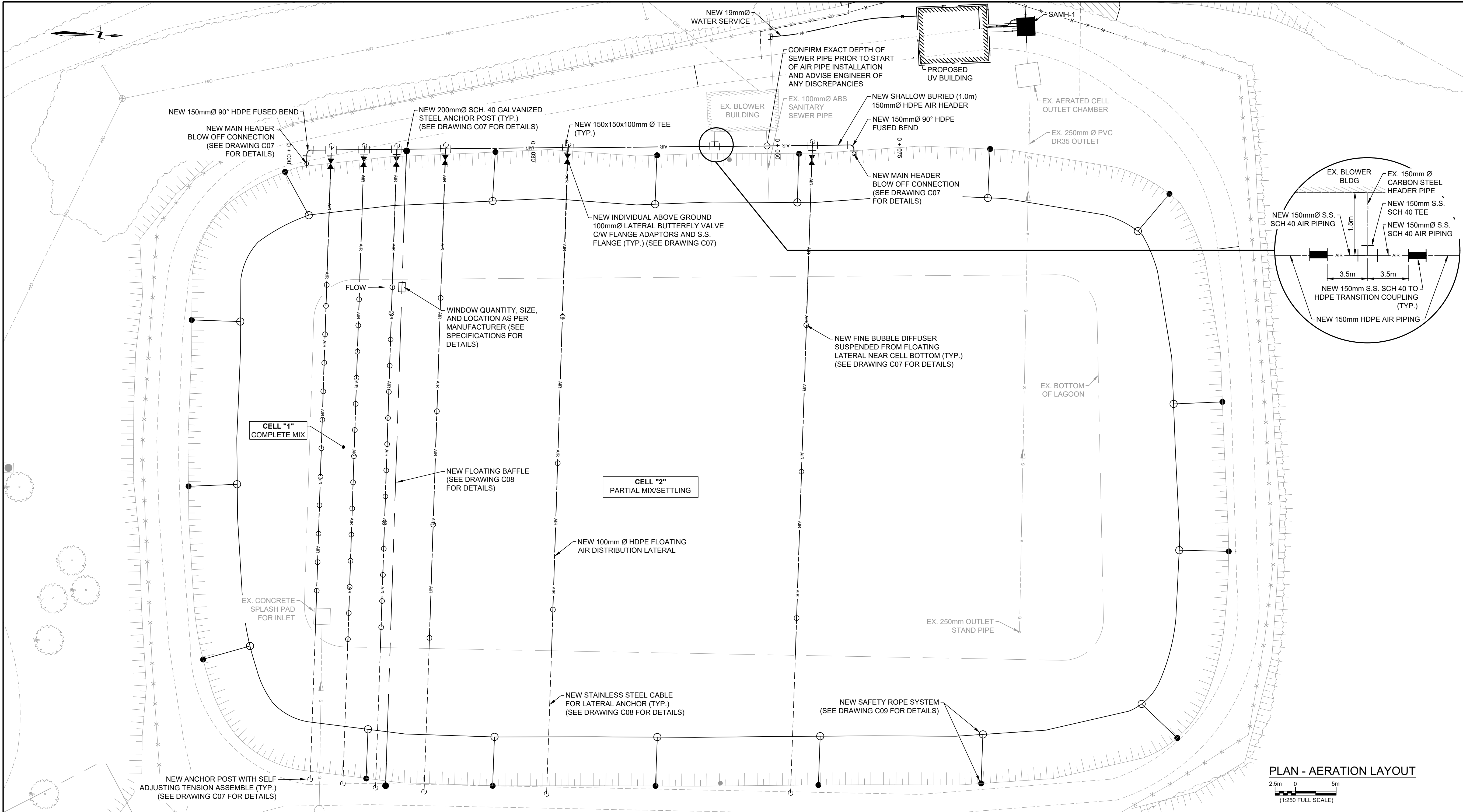
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#### NOTES

- REFER TO DRAWING C01 FOR GENERAL NOTES.
- REFER TO DRAWING C02 FOR EXISTING CONDITIONS AND REMOVALS PLAN.

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F-23-NQ-01

NEQOTKUK N.B.  
DRAWING TITLE

NEW AERATION PLAN  
AND PROFILE

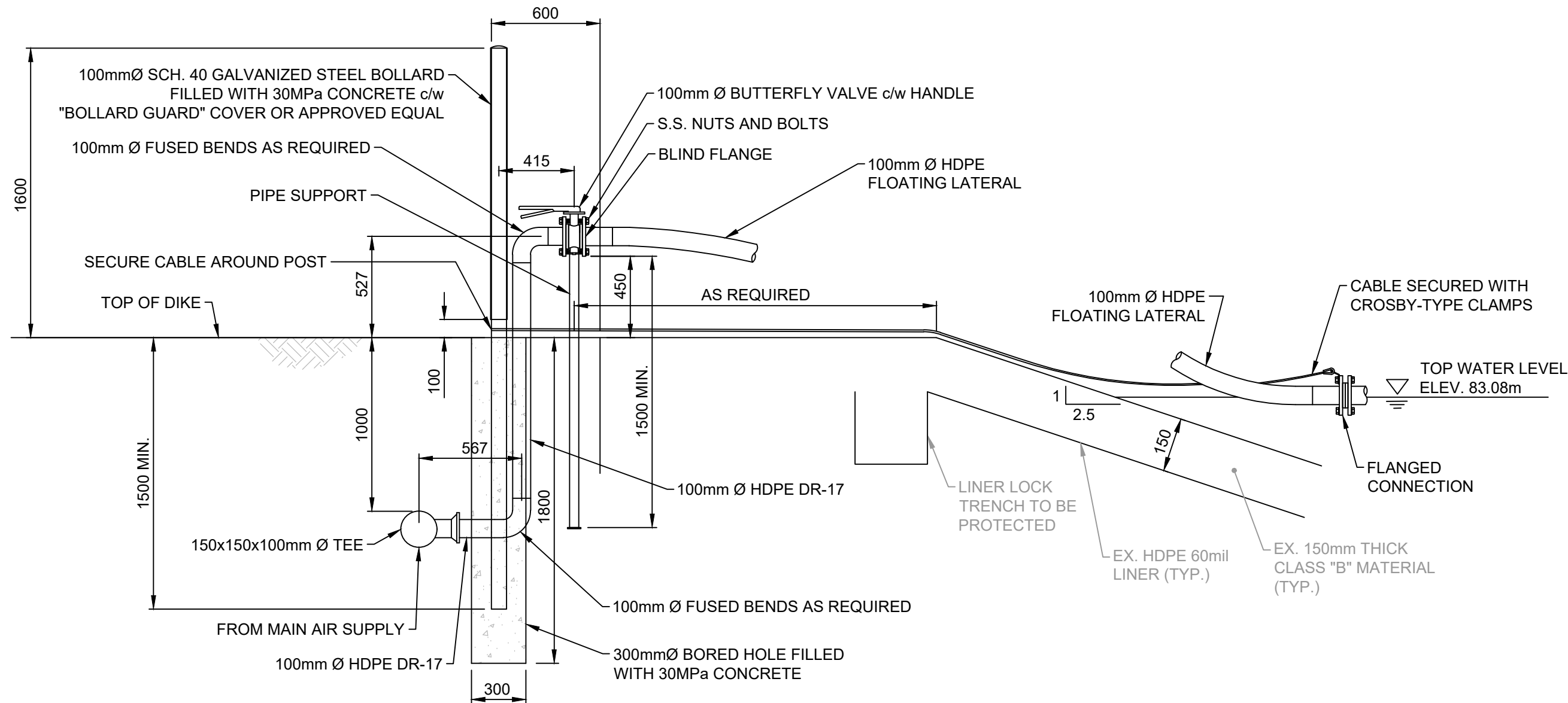
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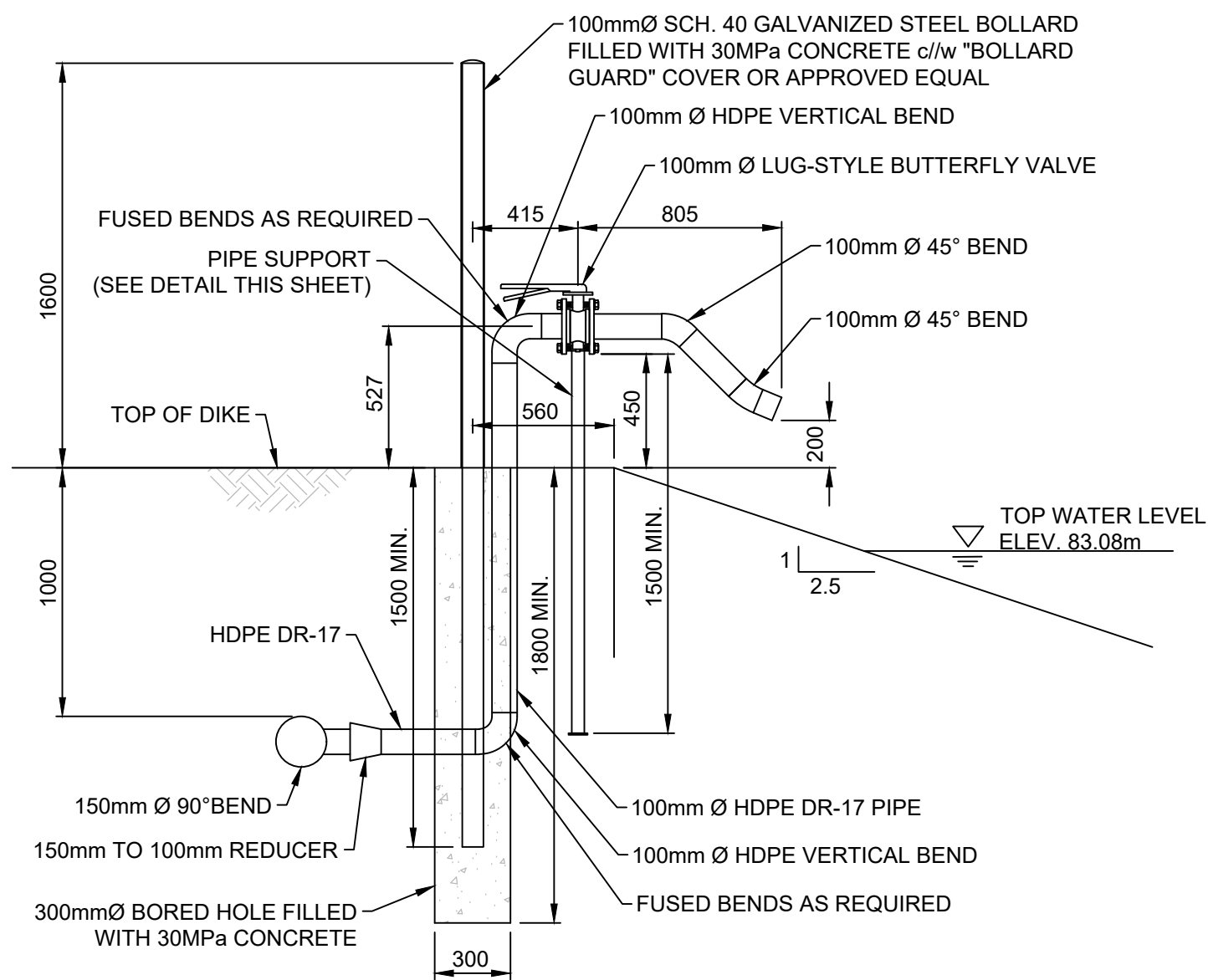
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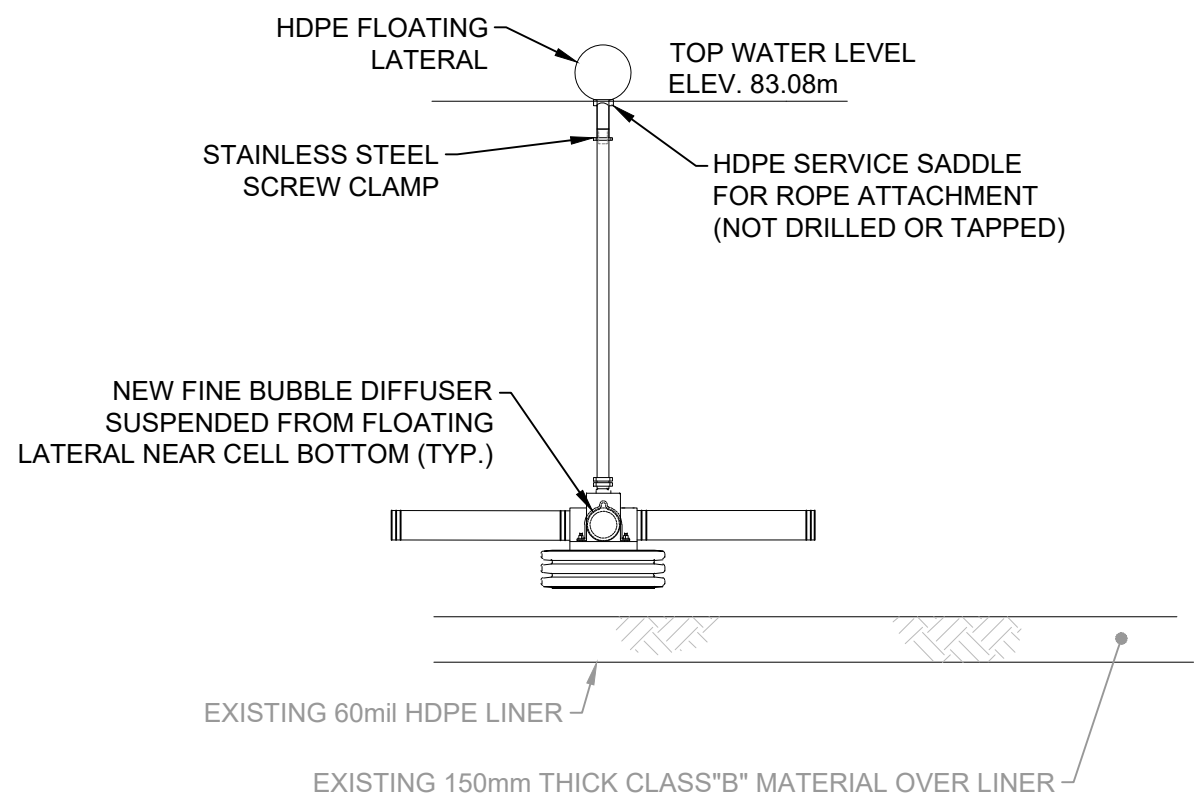
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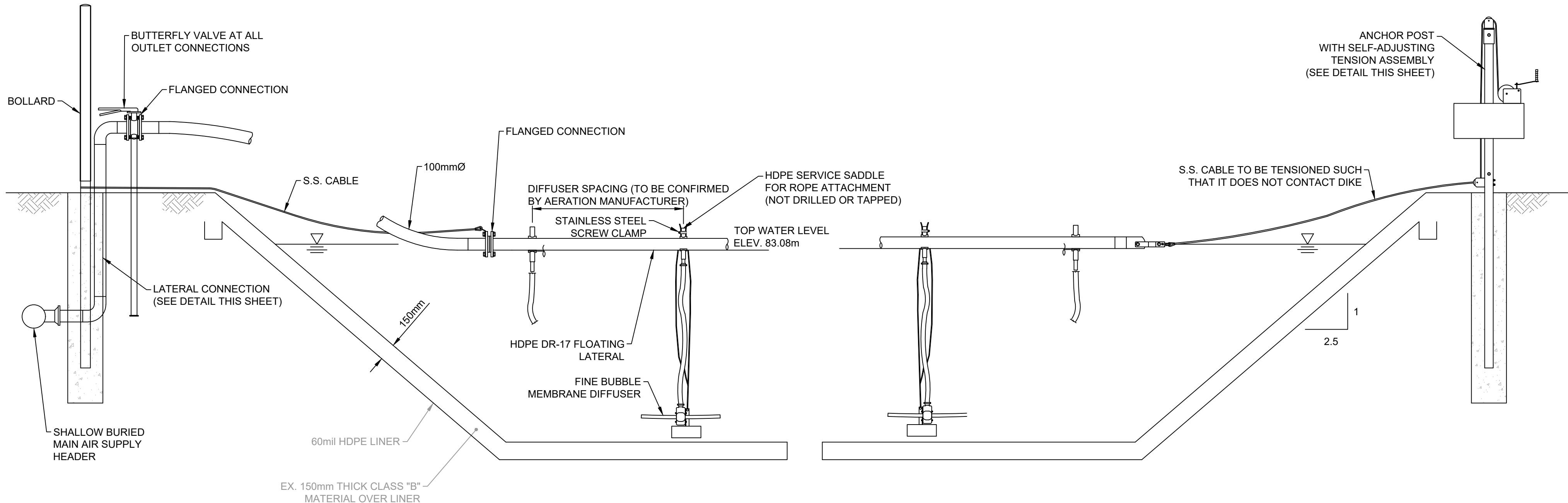
150mm Ø MAIN HEADER AIR LATERAL CONNECTION DETAIL  
N.T.S.



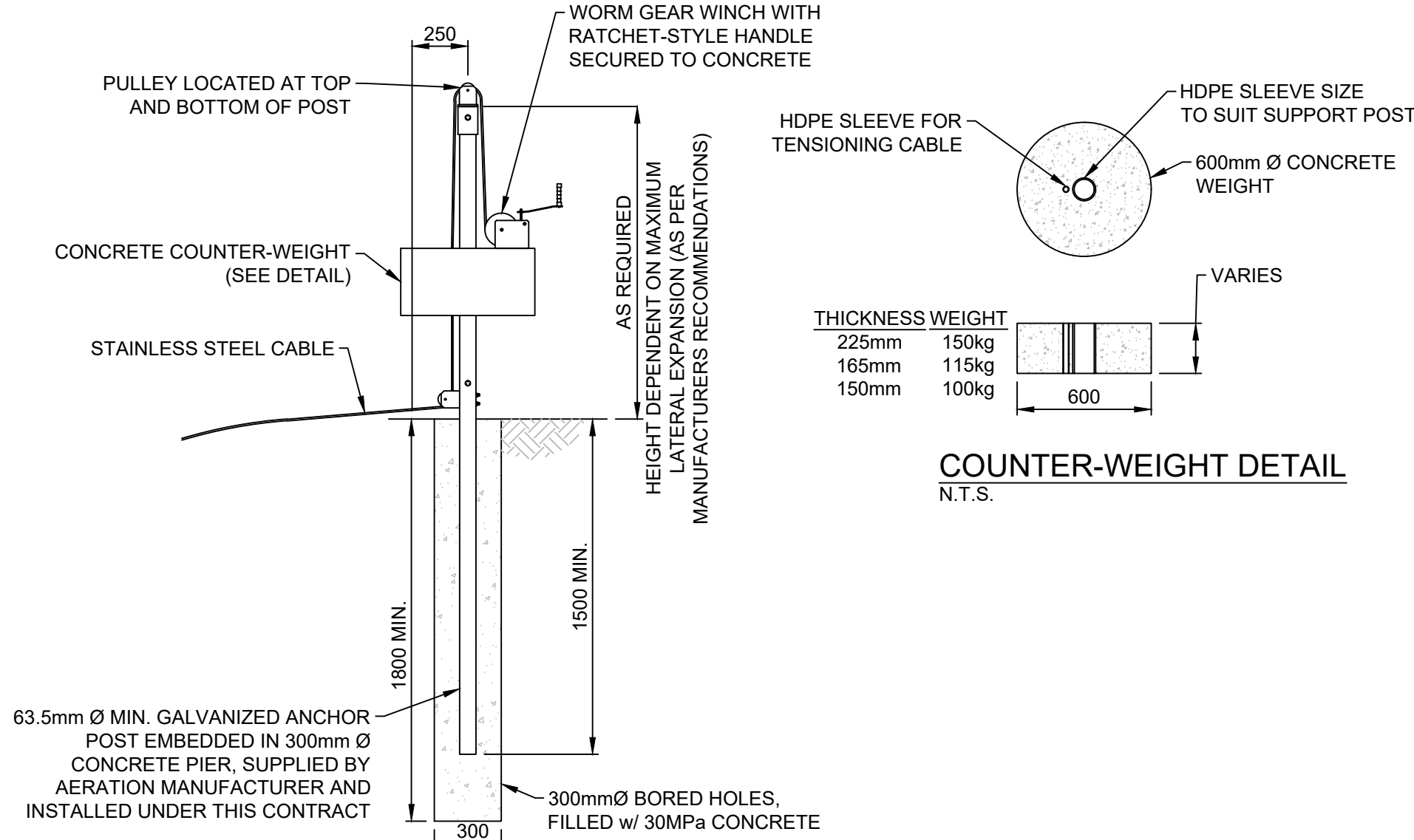
150mm Ø MAIN HEADER BLOW-OFF DETAIL  
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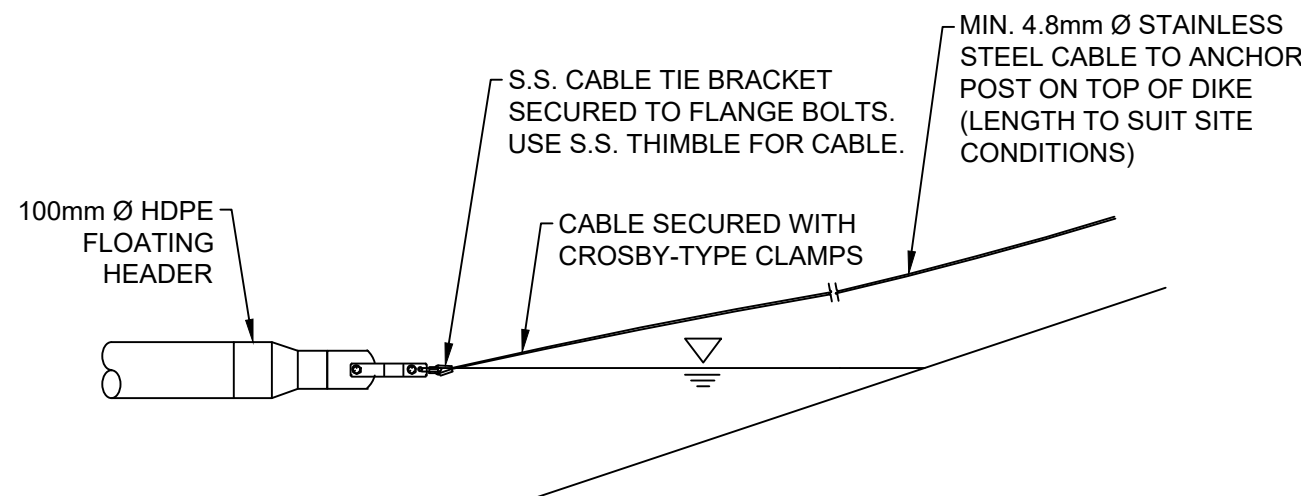
LATERAL DETAIL - ELEVATION (AERATION CELL)  
N.T.S.



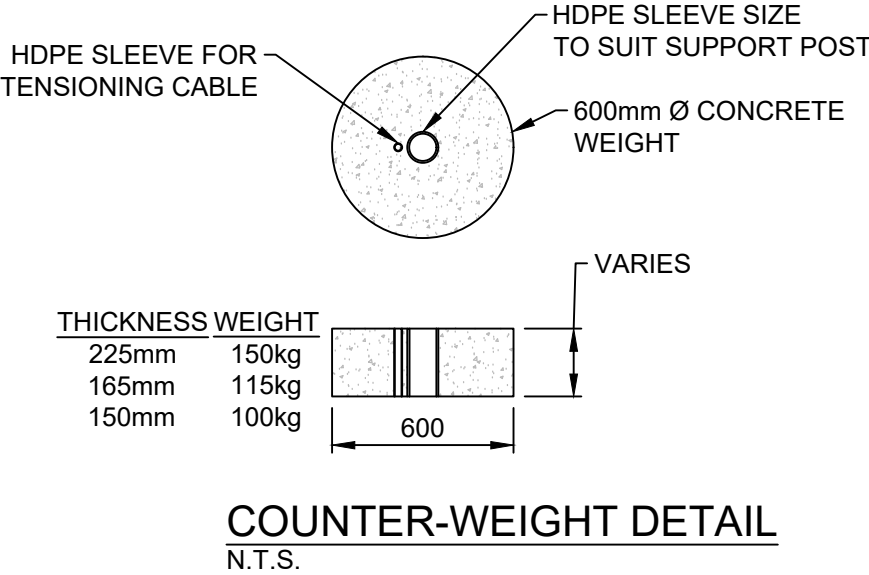
AERATED CELL SECTION  
N.T.S.



SELF-ADJUSTING TENSION ASSEMBLY  
(AT LATERAL FREE END)  
N.T.S.



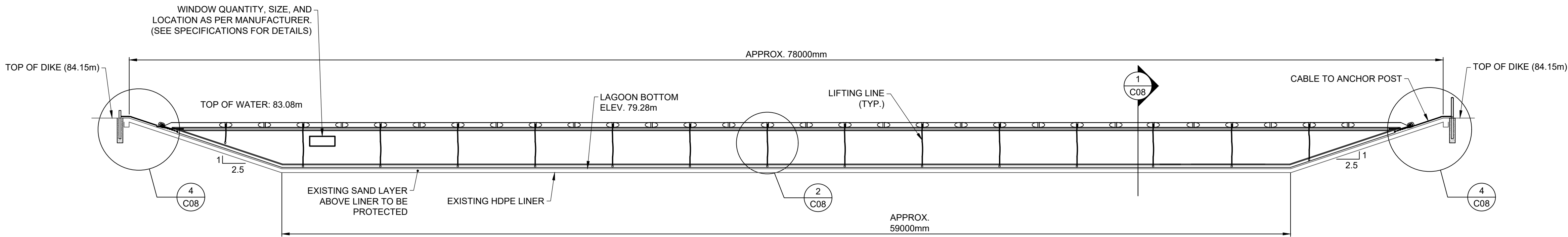
LATERAL DETAIL AT HEADER (FREE END)  
N.T.S.



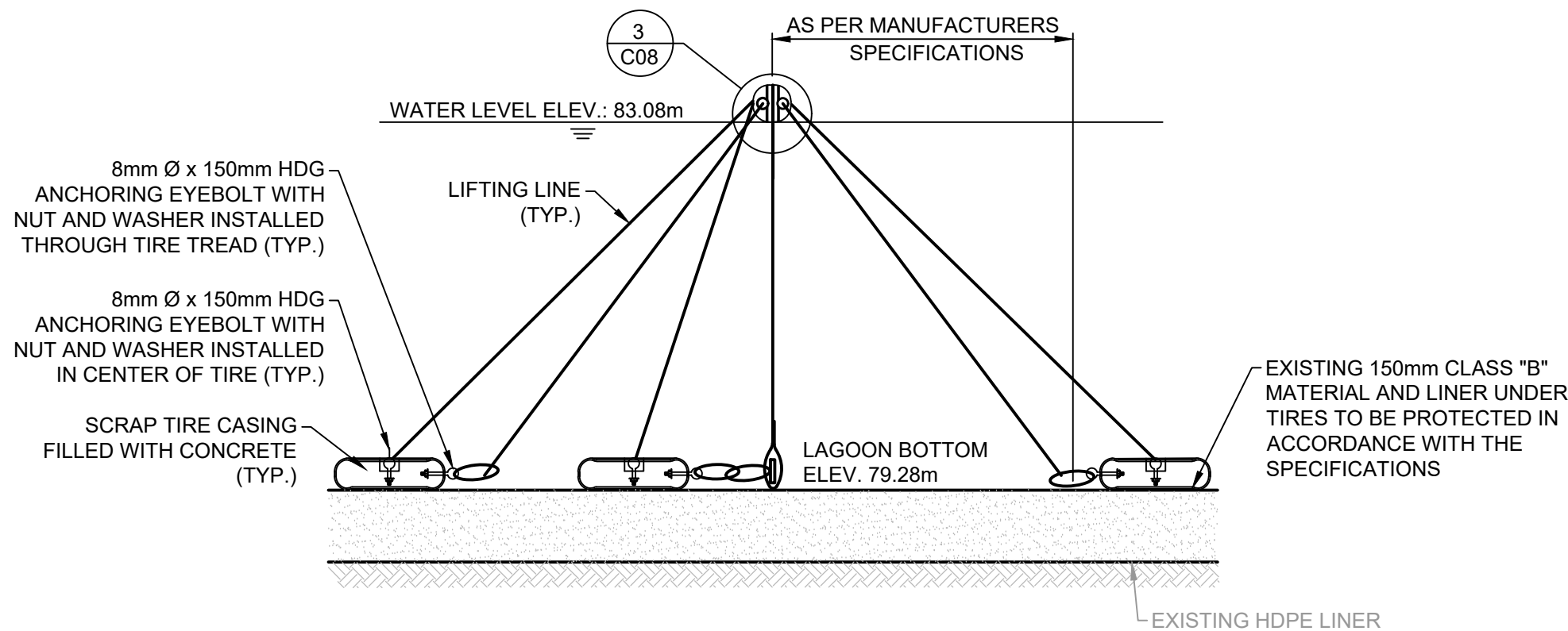
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PROJECT TITLE					
UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01					
NEQOTKUK				N.B.	
DRAWING TITLE					
AERATION SYSTEM TYPICAL DETAILS					
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		NG		KKM	
		Checked By		Cadd Check	
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C07					



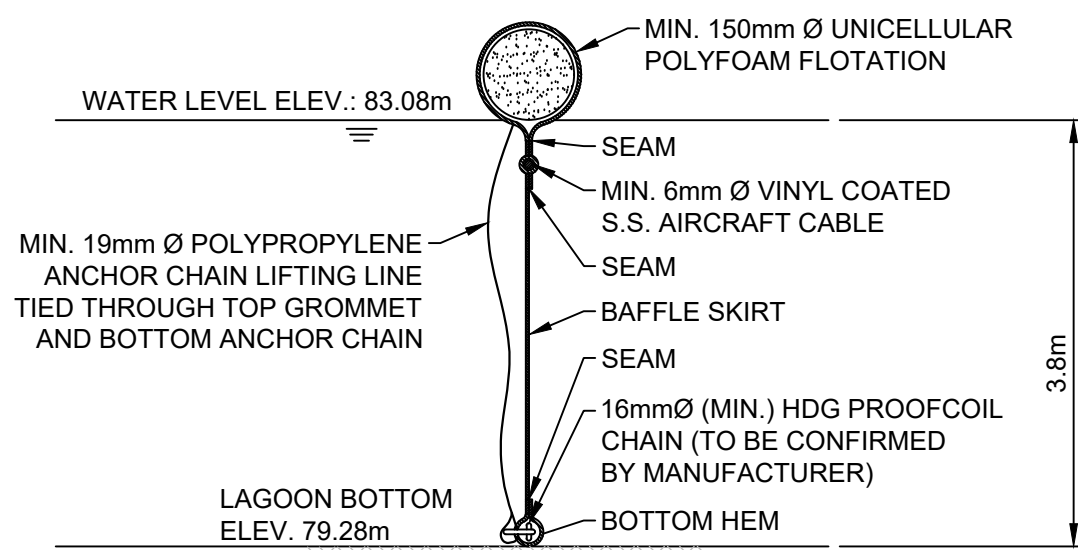
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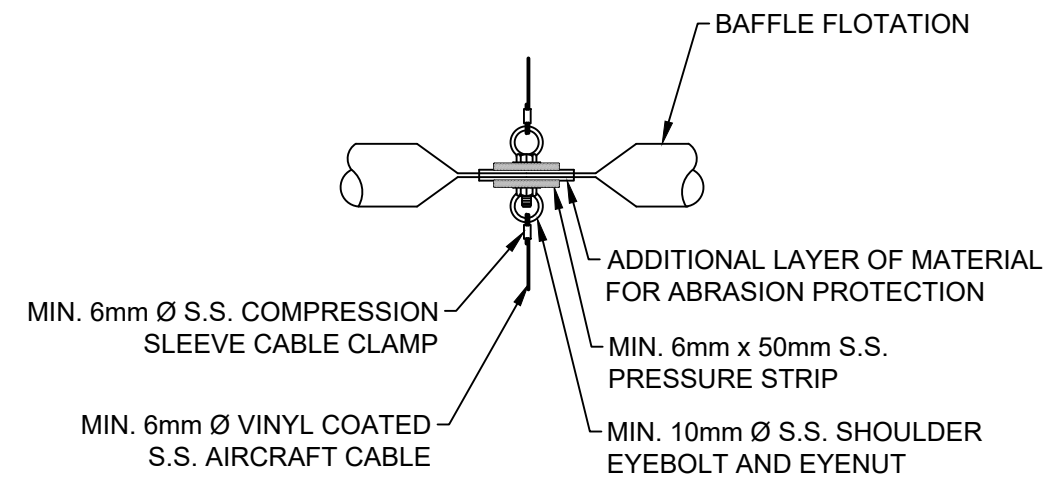
ELEVATION - BAFFLE CURTAIN WALL  
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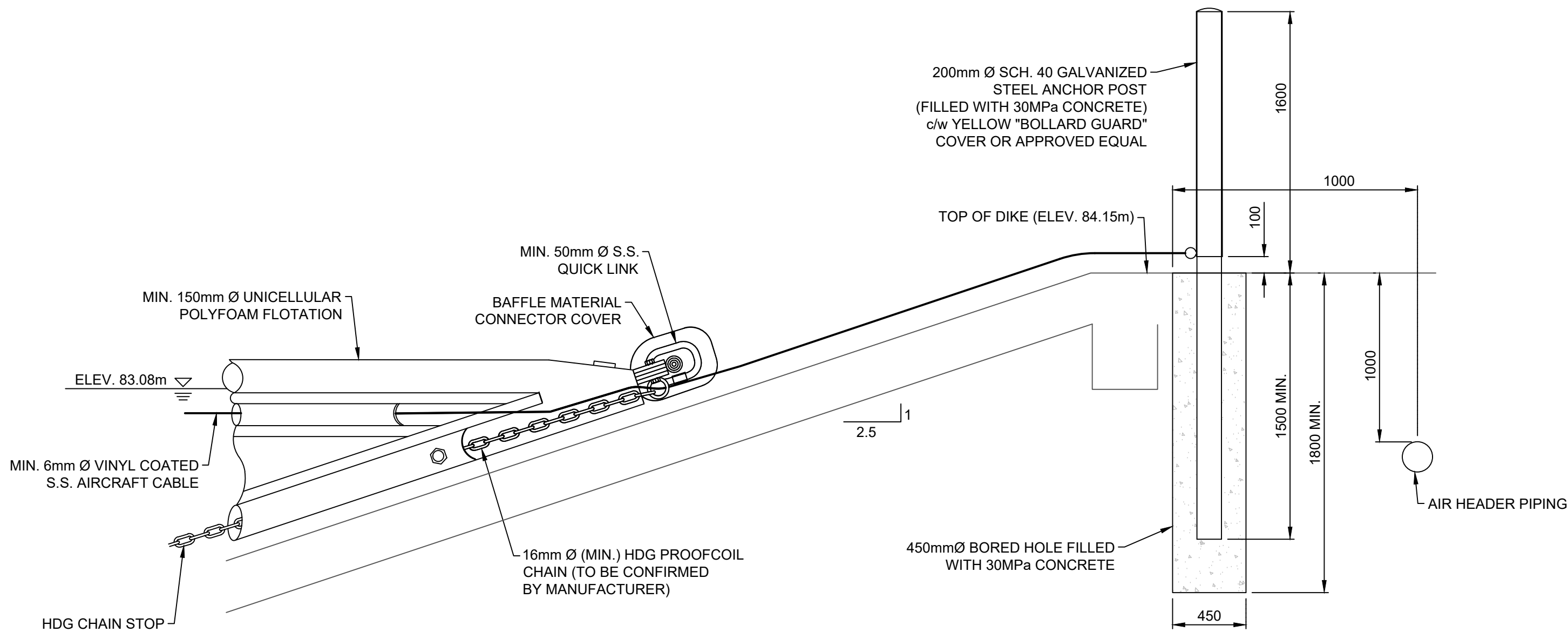
DETAIL - BAFFLE CURTAIN ANCHORING  
(QUANTITY AS PER MANUFACTURERS SPECIFICATIONS)  
N.T.S.



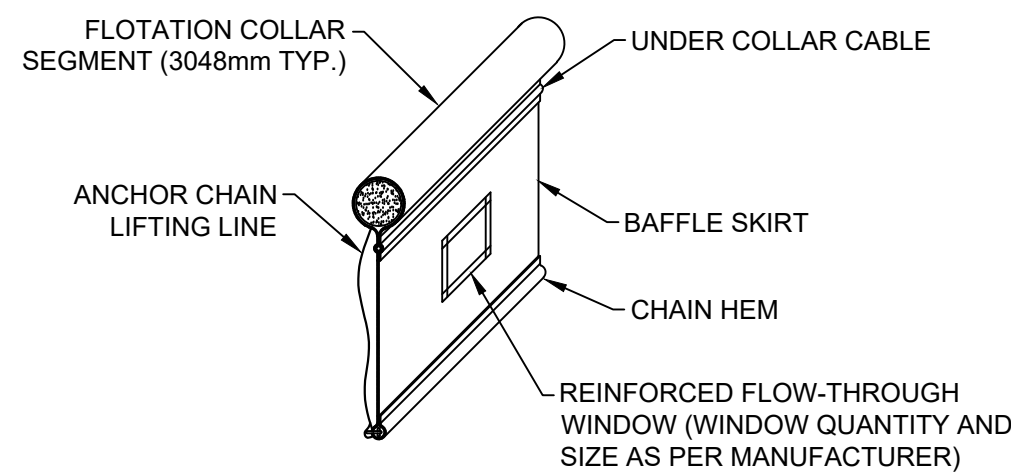
SECTION - BAFFLE CURTAIN  
N.T.S.



DETAIL - ANCHOR LIFTING  
LINE CONNECTION  
N.T.S.



DETAIL - END CONNECTOR ANCHOR POST FOR BAFFLE CURTAIN WALL  
N.T.S.



BAFFLE ISOMETRIC  
N.T.S.

NOTES

1. REFER TO DRAWING C01 FOR GENERAL NOTES.

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DRAWING TITLE

BAFFLE TYPICAL DETAILS

Scale	Drawn By	Design By
AS NOTED	NG	KKM
	Checked By	Cadd Check
	KKM	TS
	Sheet	08 of 09

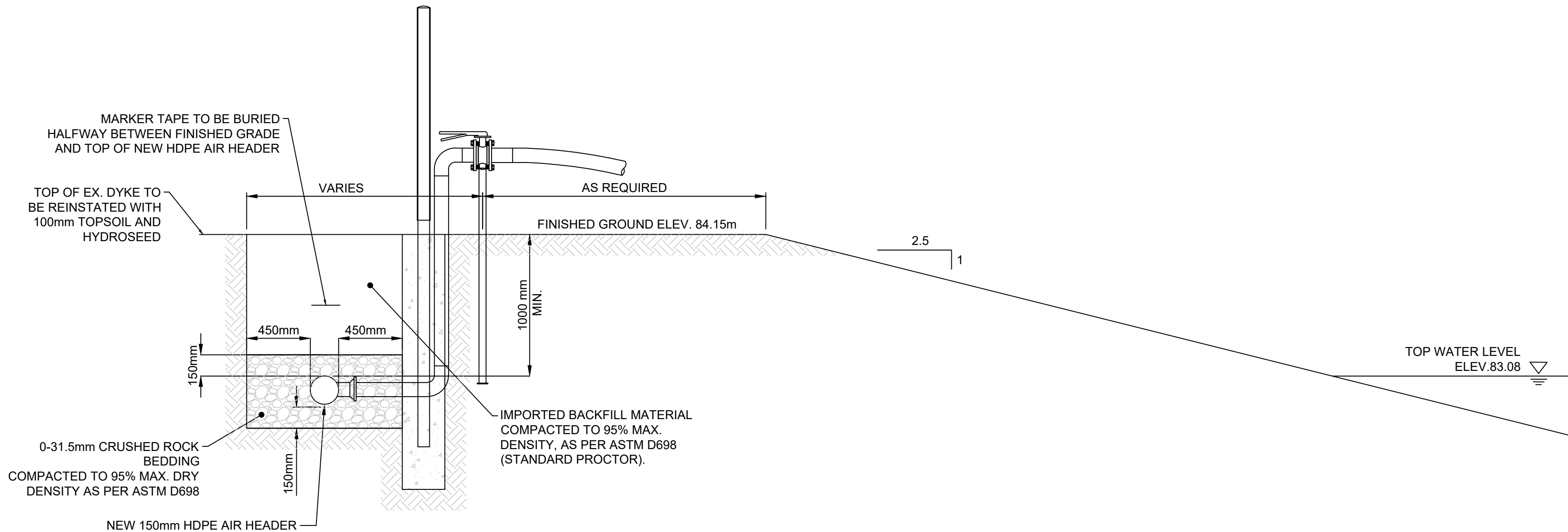
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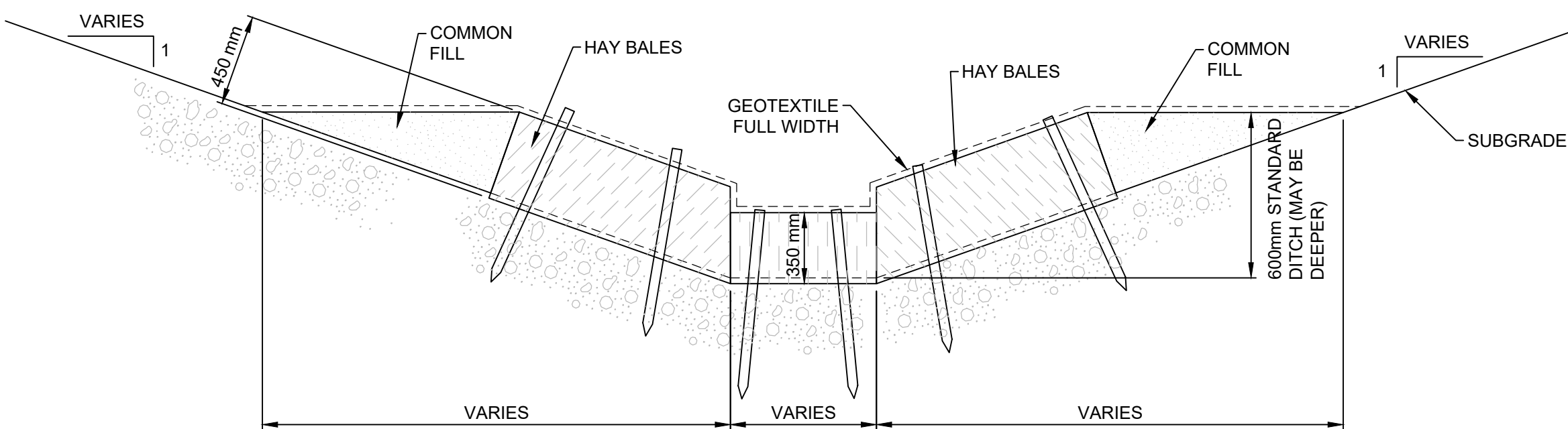
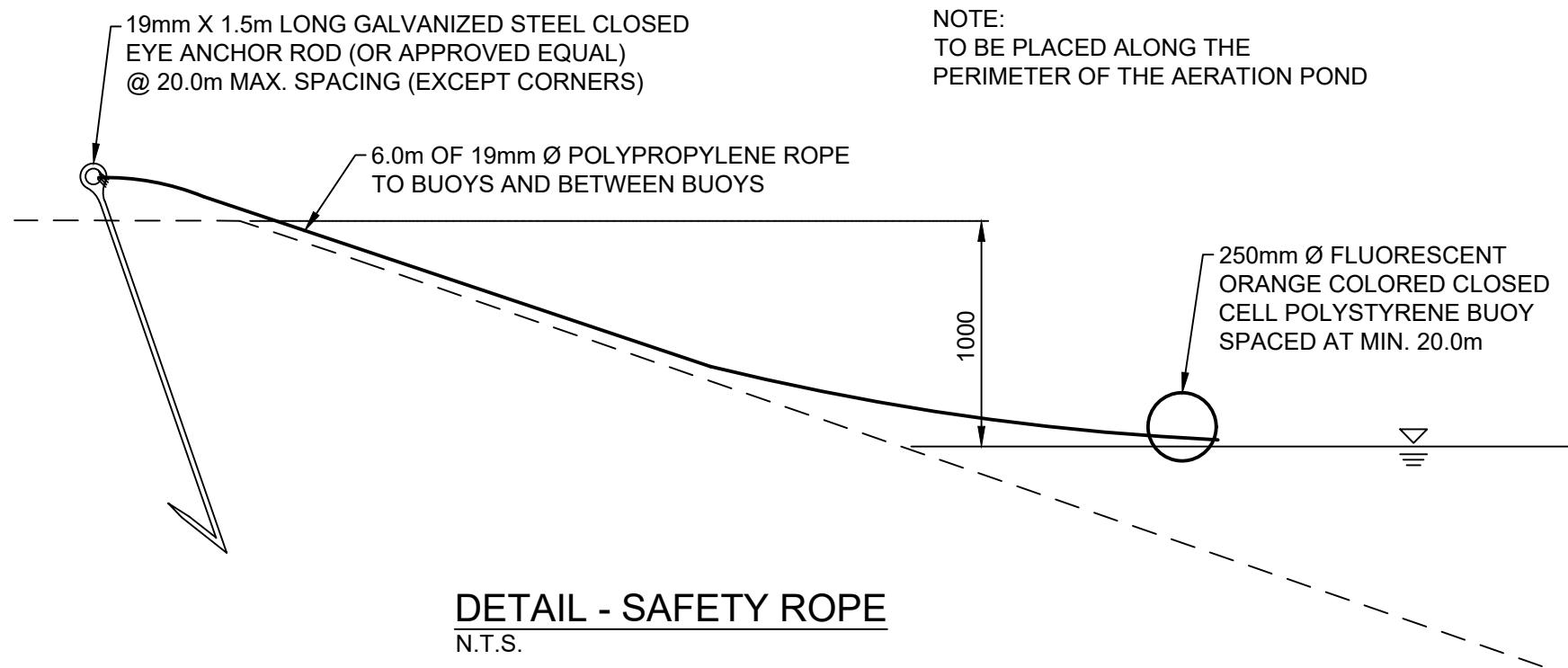
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DETAIL - AIR PIPE TRENCH

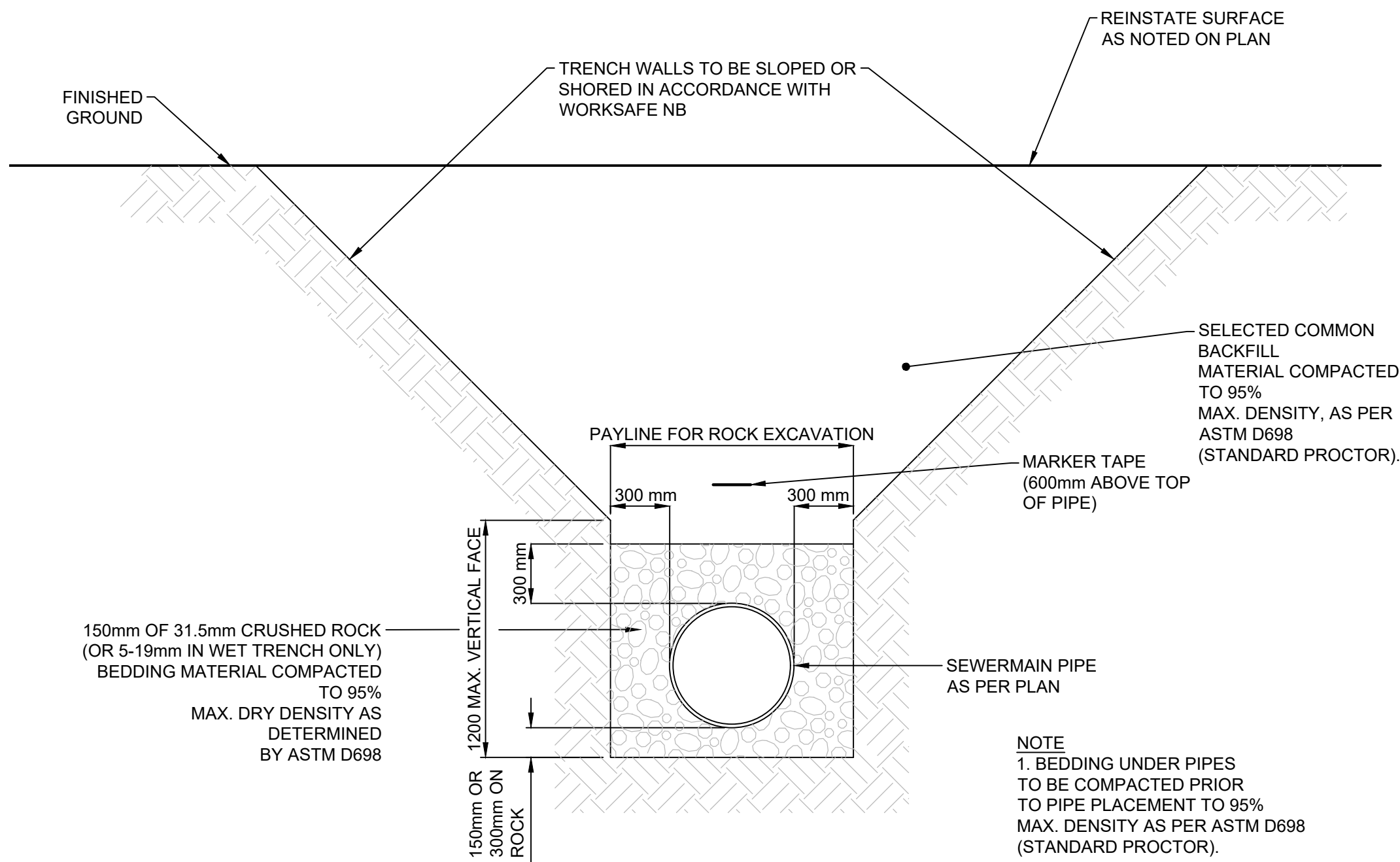


DETAIL - TYPE C EROSION CONTROL STRUCTURE

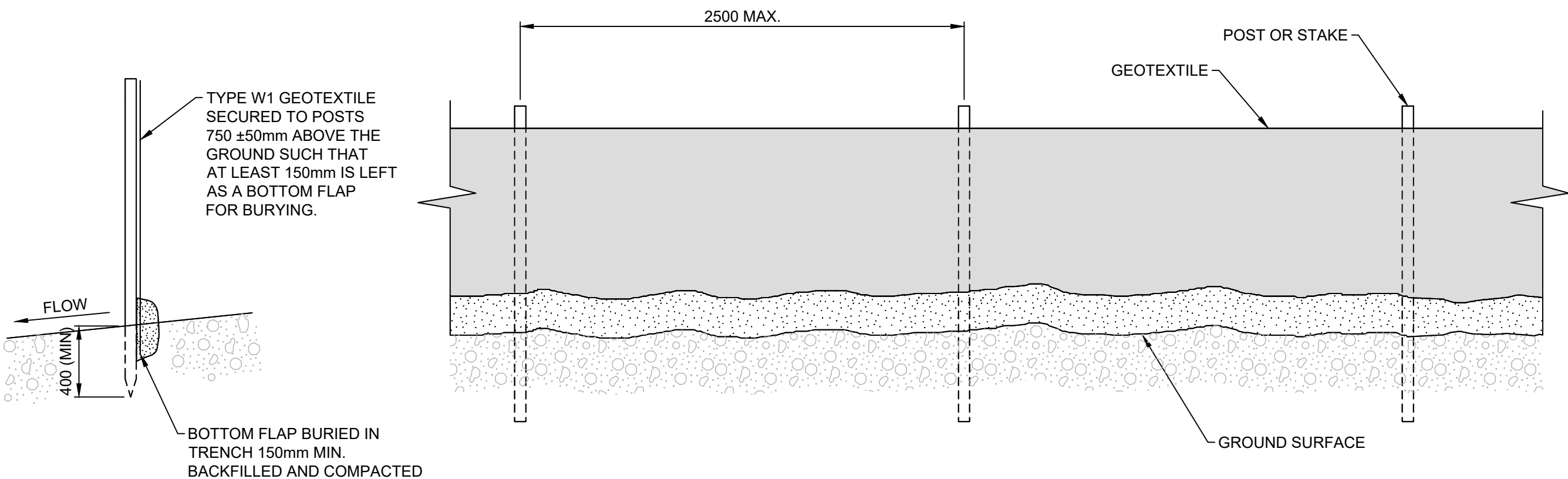


NOTES:

- ALL SEDIMENT AND EROSION CONTROL FEATURES SHALL BE INSTALLED AS INDICATED BY THE DETAILS ON THE DRAWINGS.
- THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT AND EROSION CONTROL FEATURES IN A FUNCTIONAL CONDITION CONTINUOUSLY THROUGHOUT THE COMPLETION OF THE CONTRACT.
- THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROL FEATURES AFTER EACH RAINFALL EVENT AND AT LEAST DAILY DURING PERIODS OF PROLONGED RAINFALL.
- THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY DAMAGE TO SEDIMENT CONTROL FEATURES OR PARTS THEREOF.
- THE CONTRACTOR SHALL REMOVE RETAINED SEDIMENT PRIOR TO IT HAVING ACCUMULATED TO A LEVEL APPROXIMATELY, BUT NOT EXCEEDING, ONE-HALF THE HEIGHT OF THE SEDIMENT CONTROL FENCE. THIS SEDIMENT SHALL BE DISPOSED OF AT A LOCATION AT LEAST 30m AWAY FROM ANY WATERCOURSE AND IN SUCH A MANNER THAT THE SEDIMENT SHALL NOT BE RETURNED TO THE WORK AREA OR WATERCOURSE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL SEDIMENT AND CONTROL FEATURES ONCE DIRECTED BY THE ENGINEER IN THE FIELD UPON COMPLETION OF THE CONTRACT.
- SEDIMENT AND EROSION CONTROL FEATURES REMOVED BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OFF THE WORK SITE.



DETAIL - PIPE TRENCH AND ROAD RESTORATION CLASS "B" BEDDING



DETAIL - SEDIMENT CONTROL FENCE



NOTES

- REFER TO DRAWING C01 FOR GENERAL NOTES.

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DRAWING TITLE

CONSTRUCTION  
TYPICAL DETAILS

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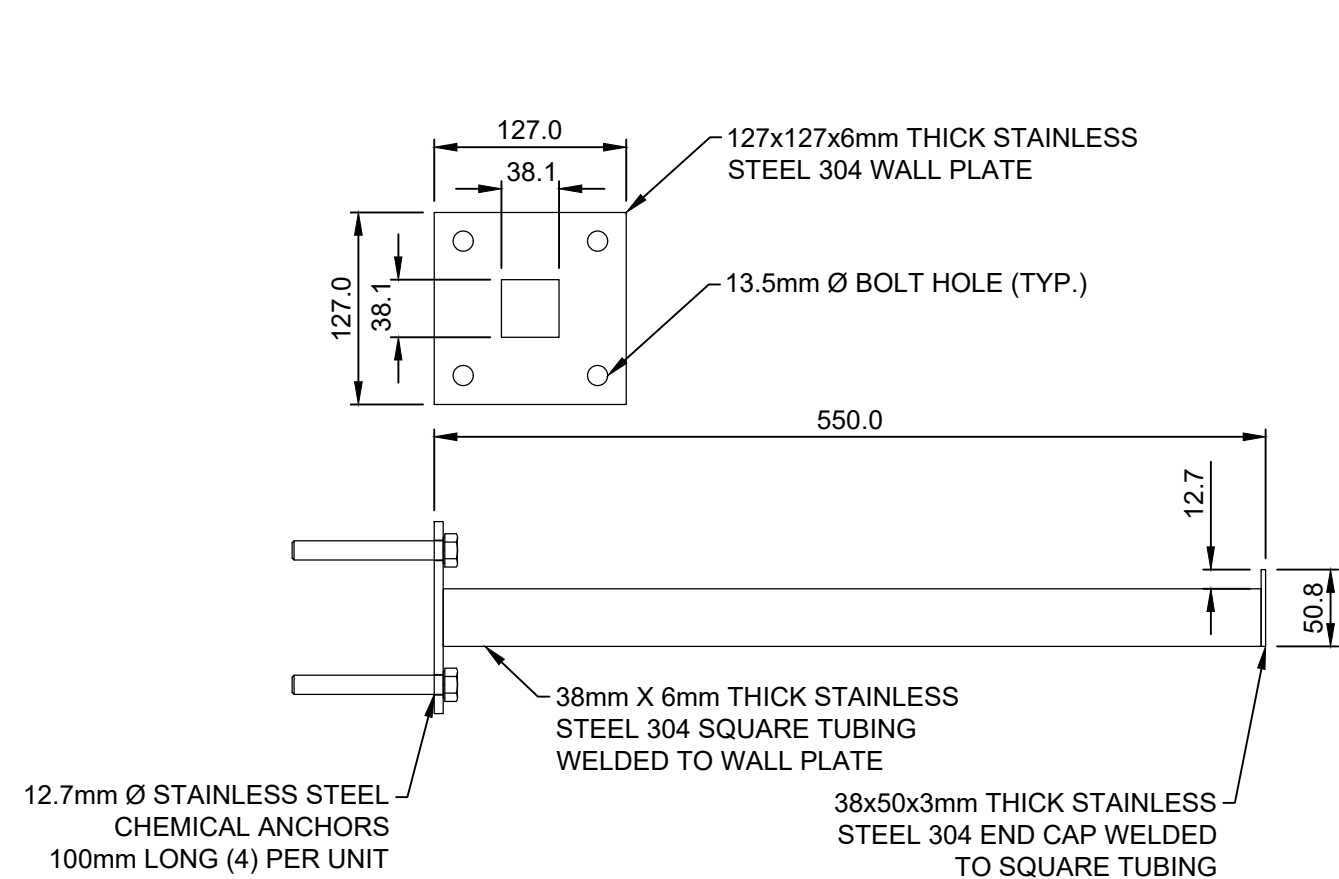
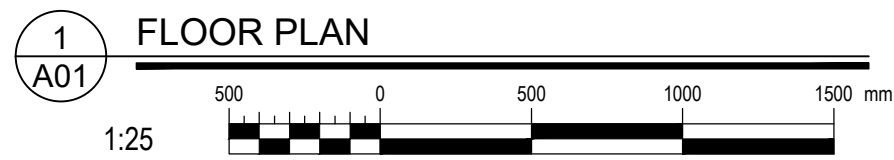
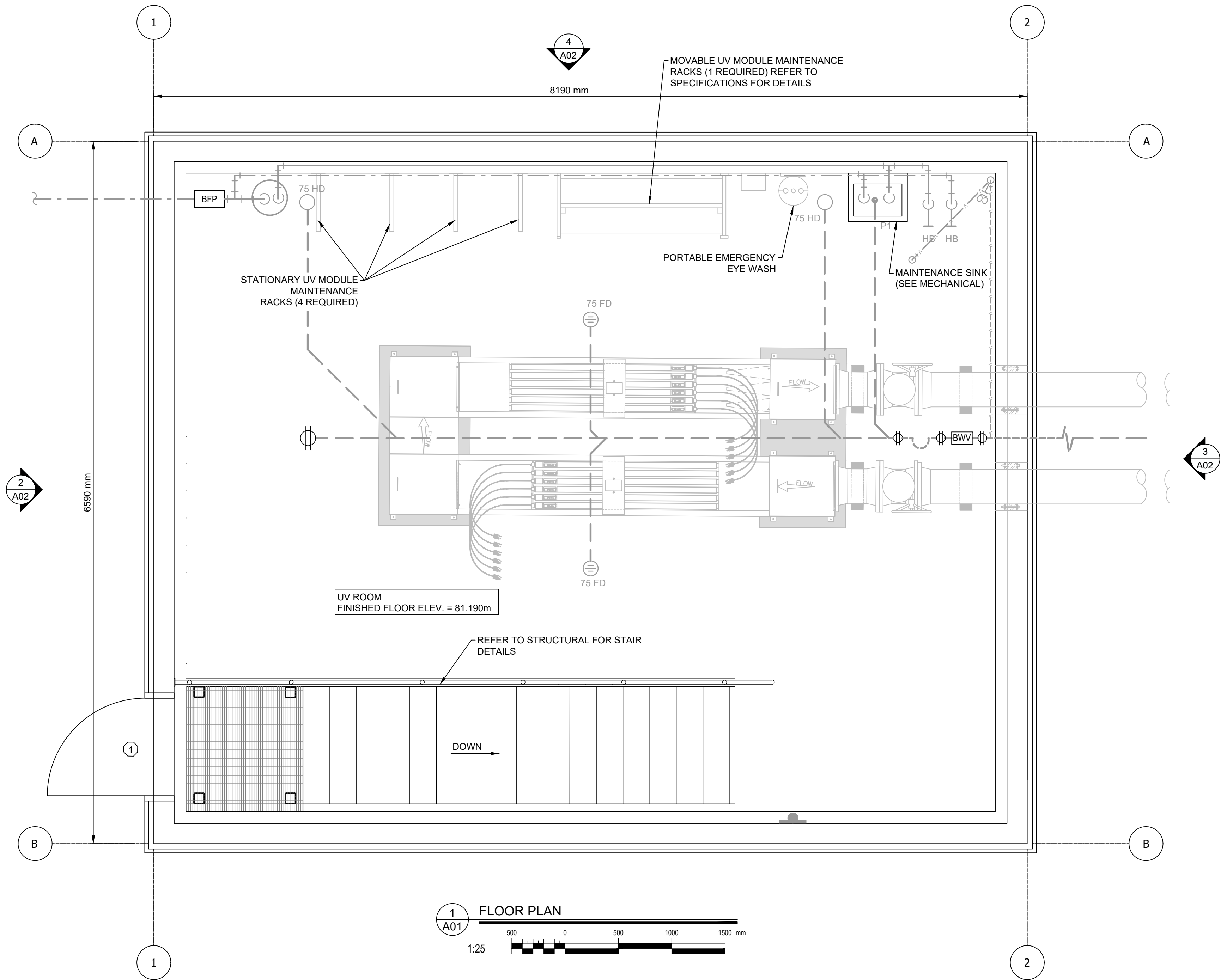
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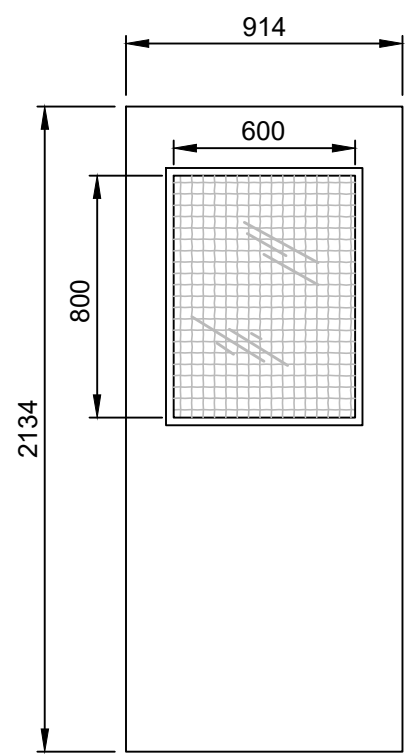
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UV MODULE STORAGE RACK DETAIL  
N.T.S.



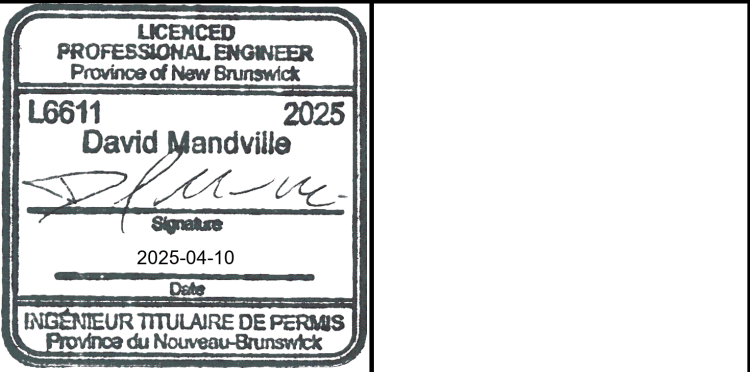
MAN DOOR C/W  
WINDOW  
EXTERIOR

DOOR SCHEDULE										
NO.	QUANTITY	SIZE			CONSTRUCTION		FRAME		600 X 800 WINDOW C/W GEORGIAN WIRE MESH	REMARKS
		WIDTH	HEIGHT	THICK	CORE	MATERIAL	TYPE	MATERIAL		
①	2	914	2134	45	INSULATED	METAL	2	METAL	YES	C/W DOOR SWEEP & WEATHER STRIPPING

- DOOR FRAMES - TYPE 1 THERMAL BROKEN FRAME ; TYPE 2 STANDARD FRAME.
- REFER TO SPECIFICATIONS FOR DOOR HARDWARE.

- NOTES
- CONTRACTOR TO INSTALL ATTIC INSULATION ACCESS DOOR. SIZE AND LOCATION TO BE IN ACCORDANCE WITH NBC LATEST EDITION.
  - REFER TO MECHANICAL DRAWINGS FOR VENTILATION AND PLUMBING DETAILS.
  - SIZES OF CONCRETE EQUIPMENT PADS TO BE CONFIRMED DURING SHOP DRAWING REVIEW.
  - REFER TO STRUCTURAL FOR DOOR AND LOUVER OPENING LOCATIONS FOR INSTALLATION.
  - OUTSIDE DIMENSIONS ARE FROM OUTSIDE OF FOUNDATION WALL.

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NO.	DATE	REVISIONS	BY	APPR.



PROJECT TITLE

UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT  
FACILITY CLIENT PROJECT NO.  
F-23-NQ-01

NEQOTKUK N.B.

DRAWING TITLE

NEW UV BUILDING,  
FLOOR PLAN AND  
DETAILS

Scale	Drawn By		Design By	
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		Sheet	01	of 03

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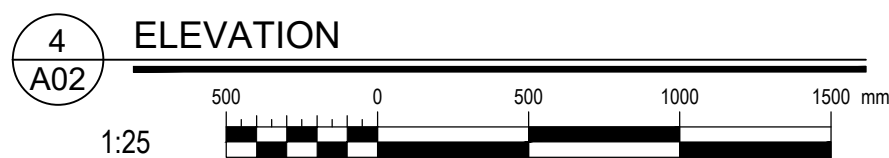
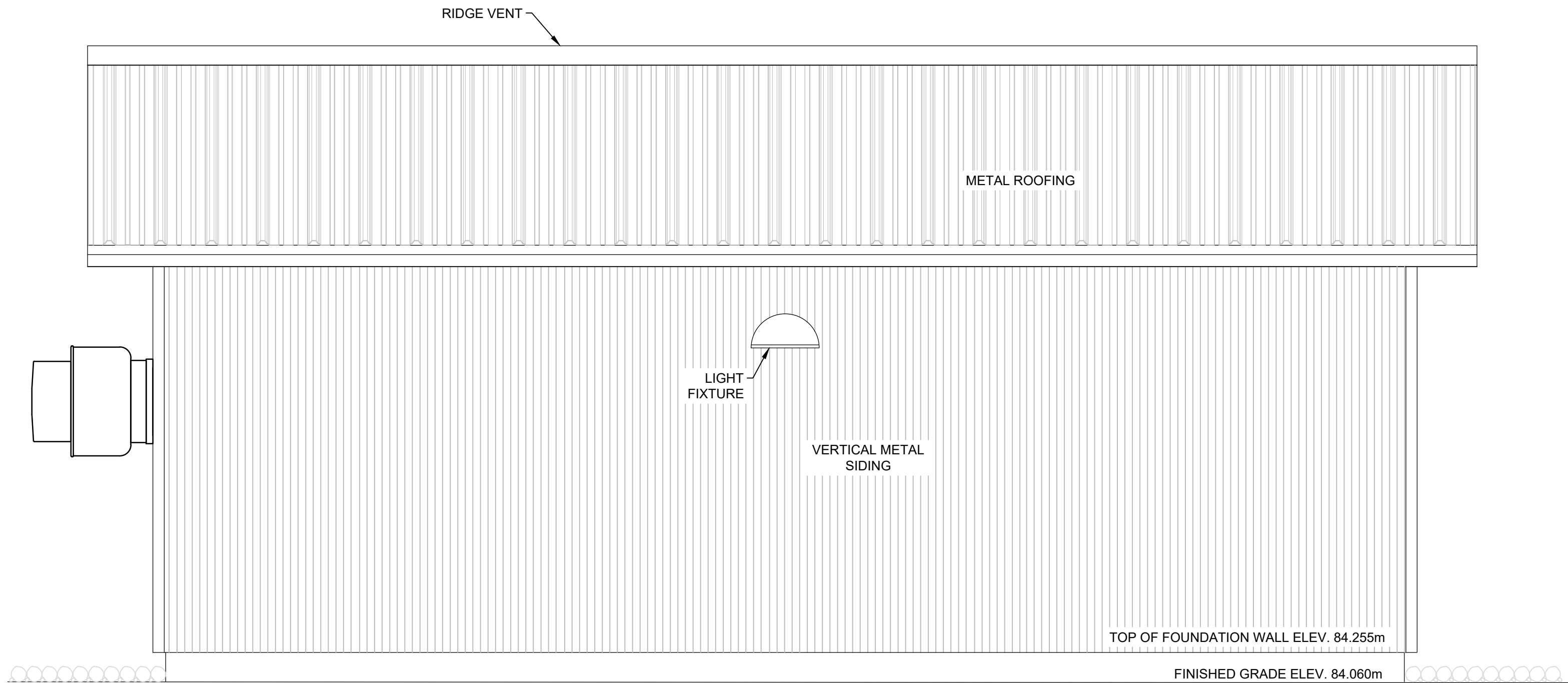
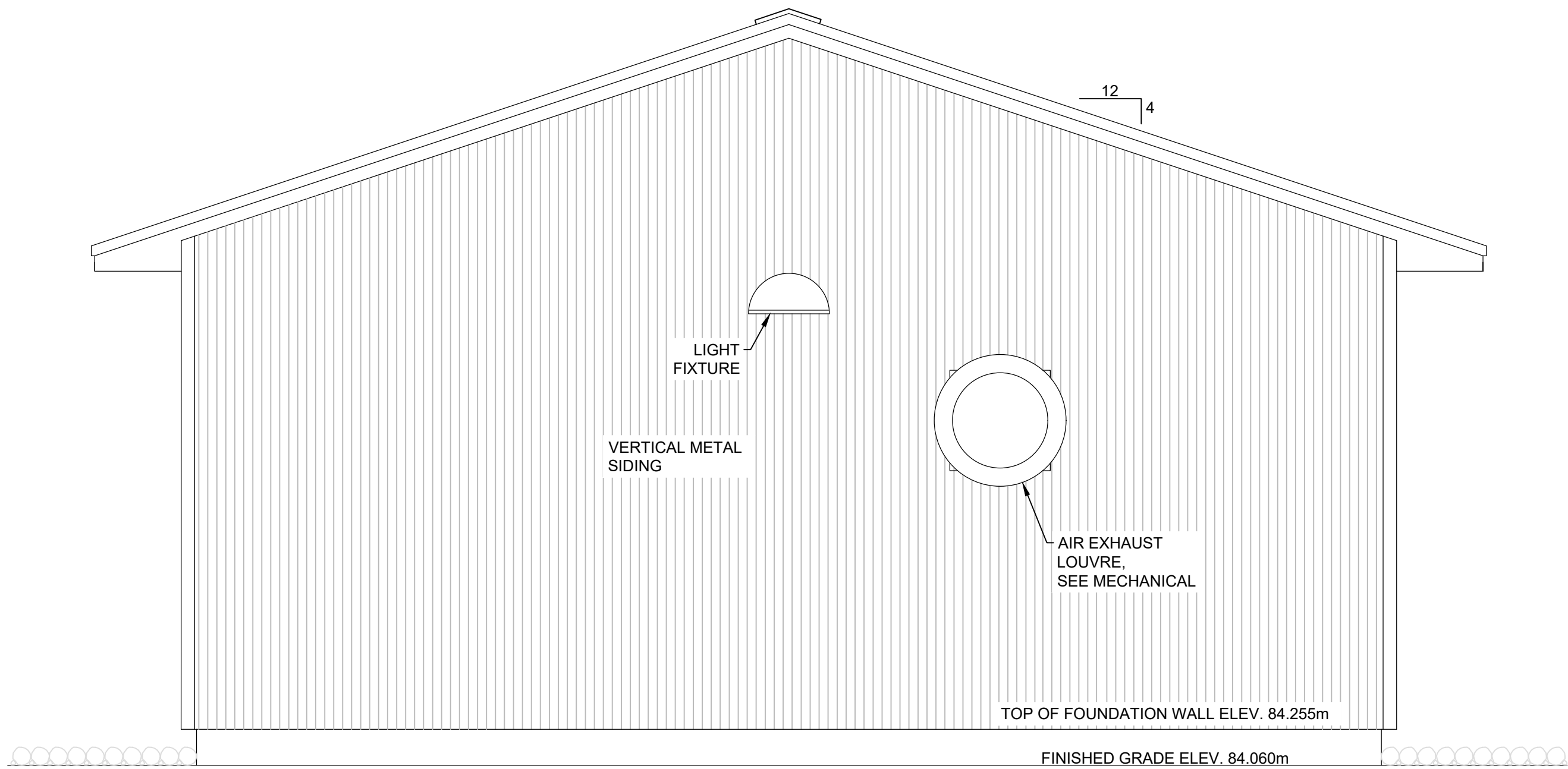
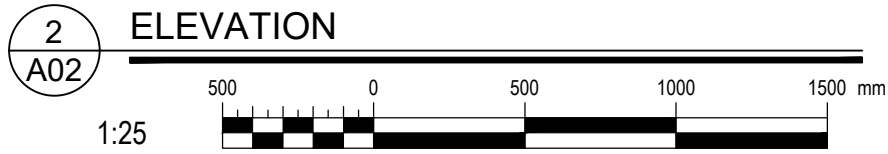
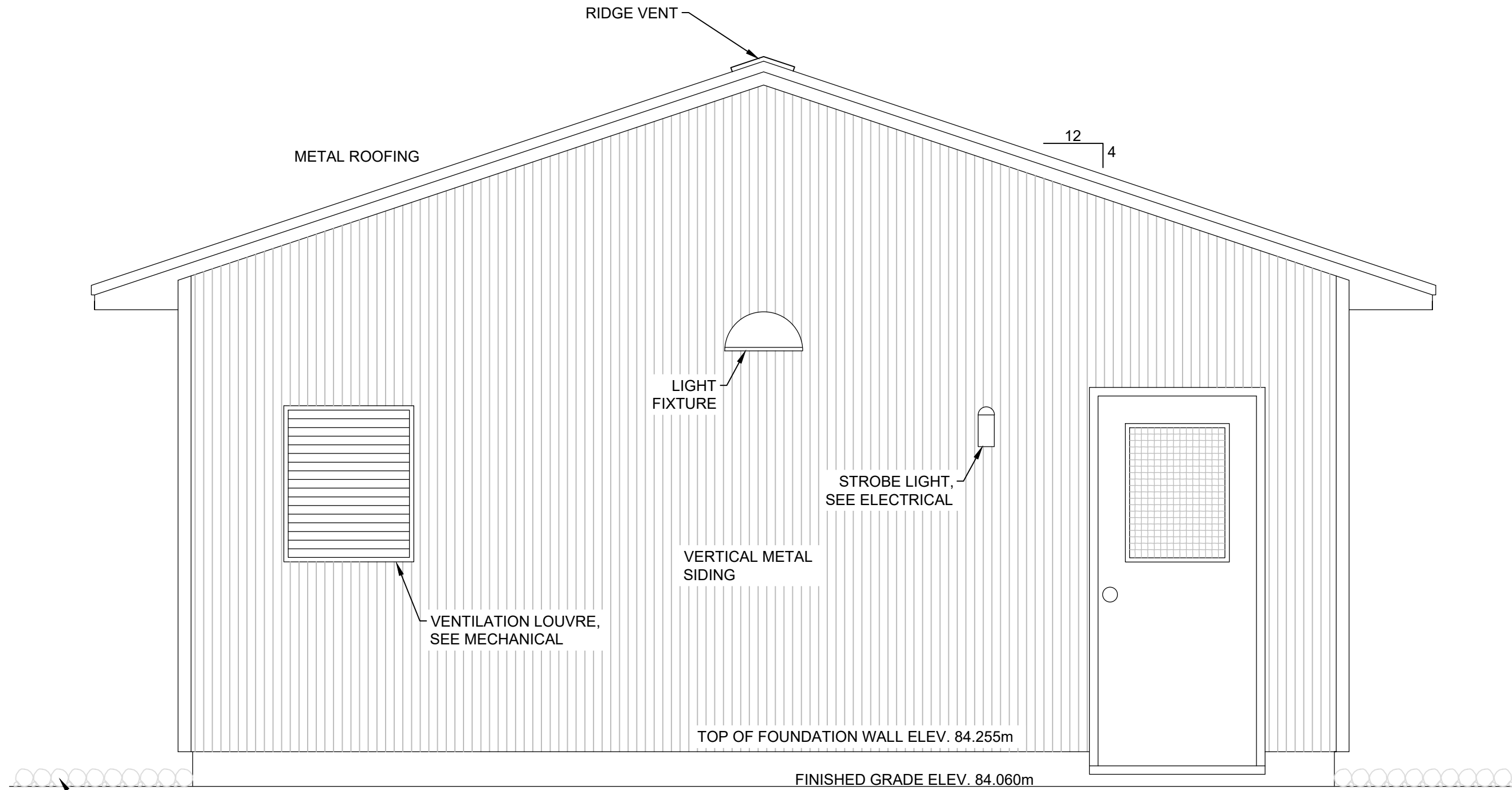
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Drawing No.

A01



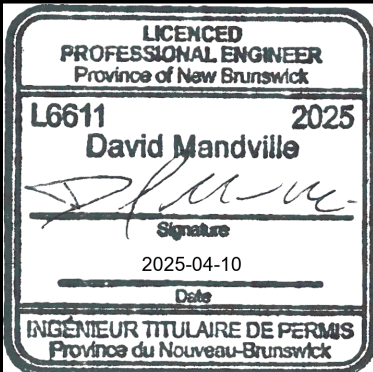
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NOTES

- REFER TO MECHANICAL DRAWINGS FOR VENTILATION AND PLUMBING DETAILS.
- REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
- SIZE OF OPENING FOR AIR LOUVERS AND EXHAUST FANS THROUGH WALL TO BE CONFIRMED WITH SHOP DRAWINGS.
- REFER TO STRUCTURAL FOR REINFORCING DETAILS AND LINTEL DETAILS AT OPENINGS.
- EXACT LOCATION OF VENTILATION OPENINGS TO BE COORDINATED WITH STRUCTURAL CONTRACTOR.

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UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT  
FACILITY CLIENT PROJECT NO.  
F-23-NQ-01

NEQOTKUK N.B.

DRAWING TITLE

NEW UV BUILDING,  
ARCHITECTURAL  
ELEVATIONS

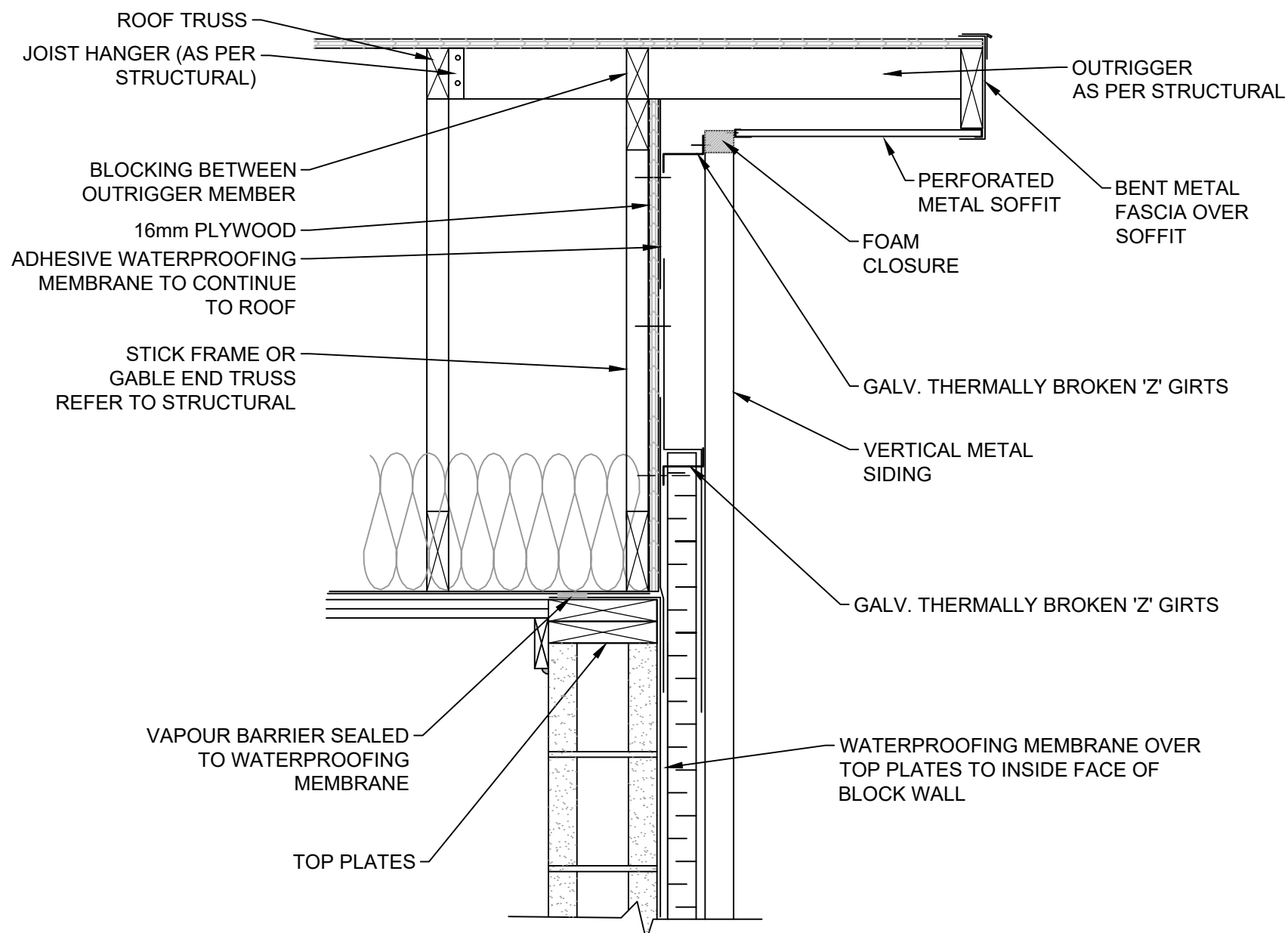
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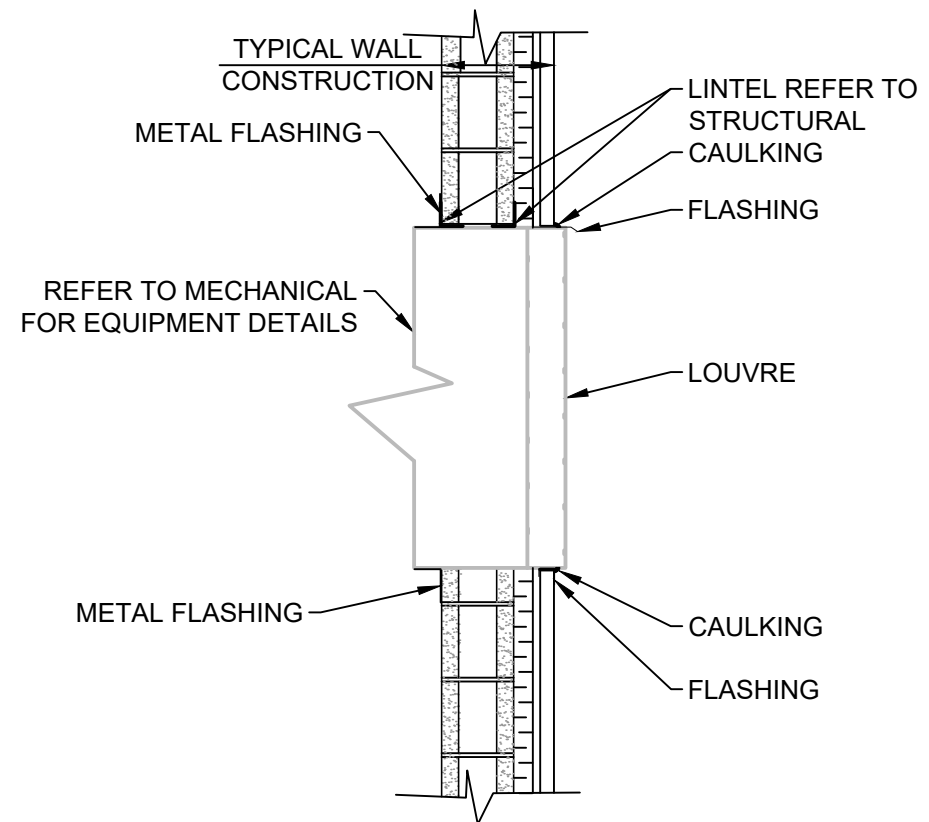
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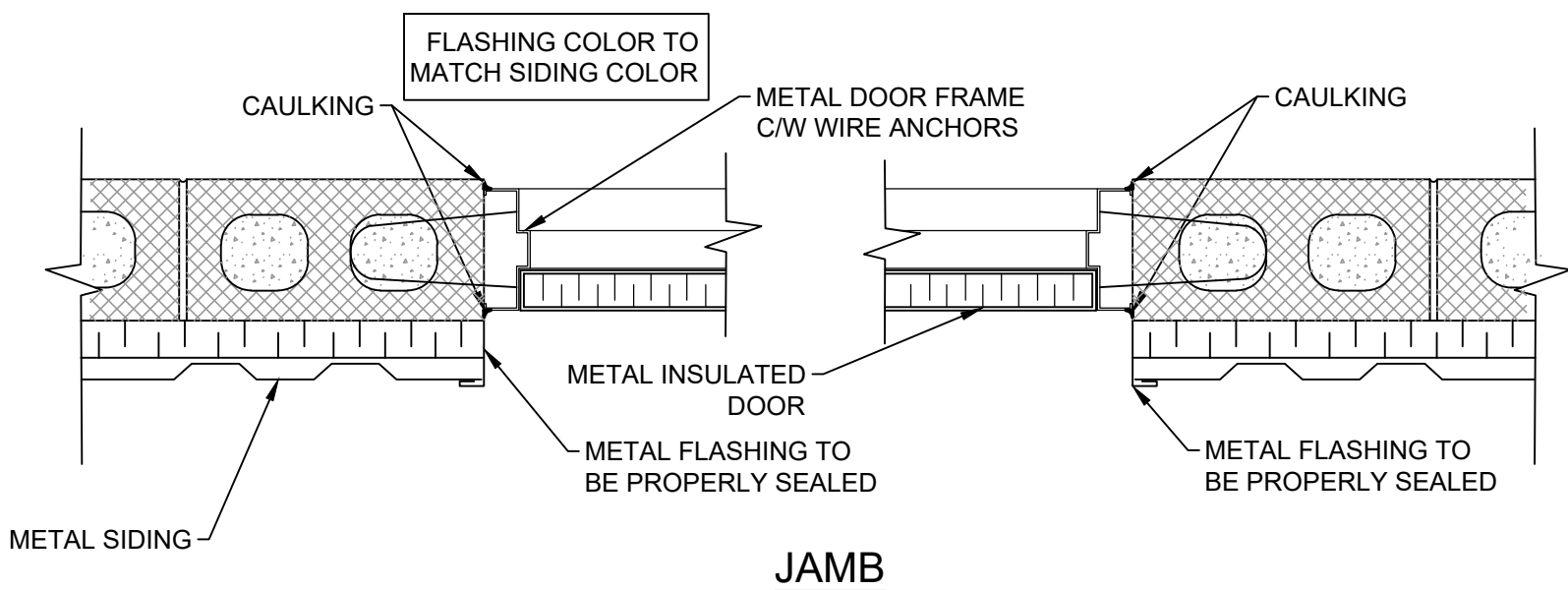
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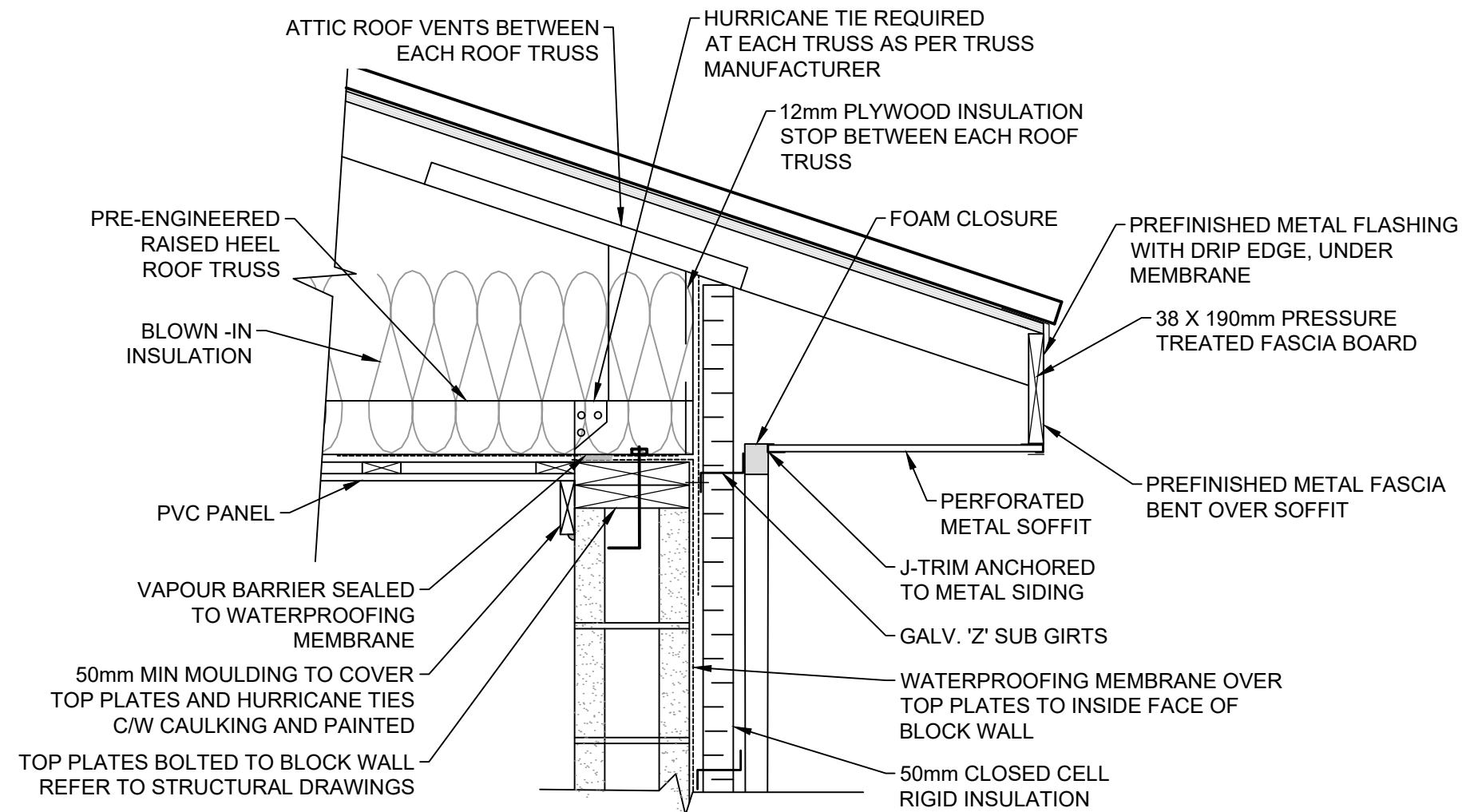
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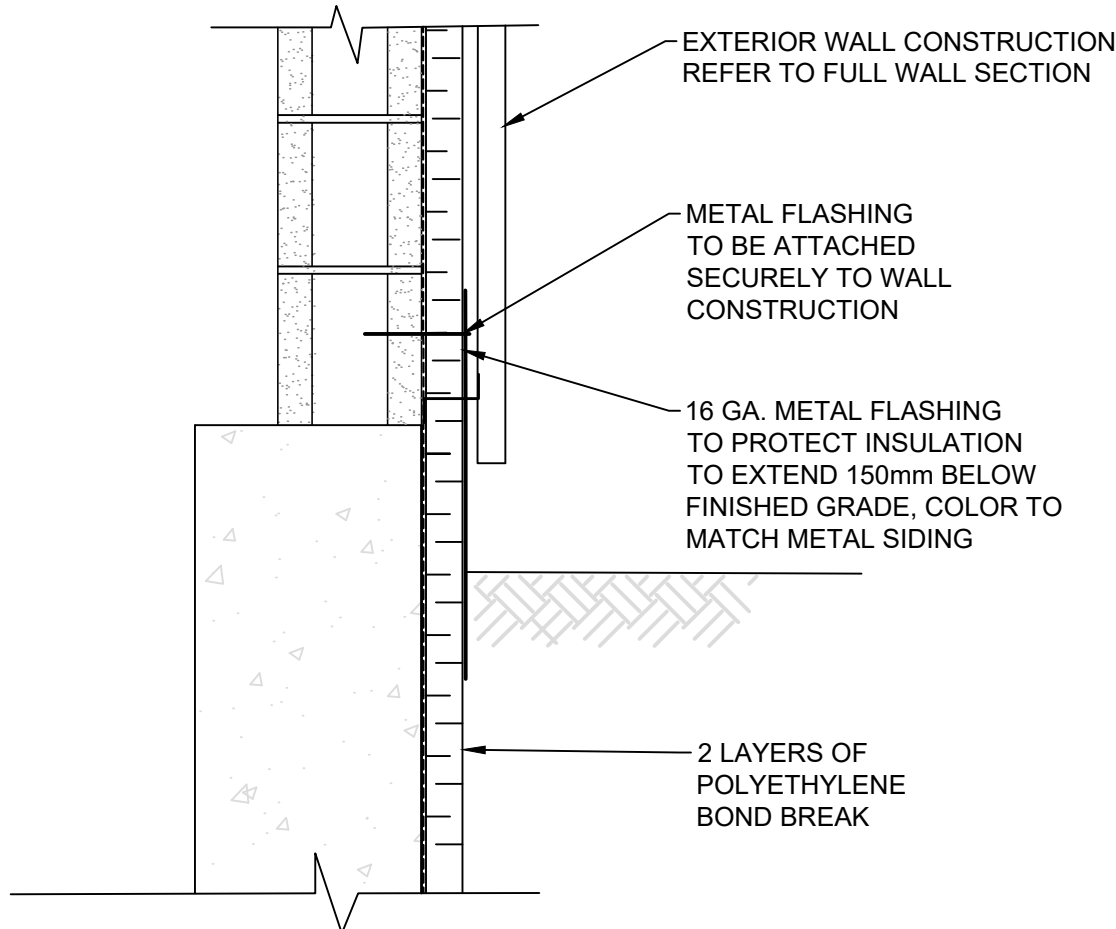
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A03  
1:20



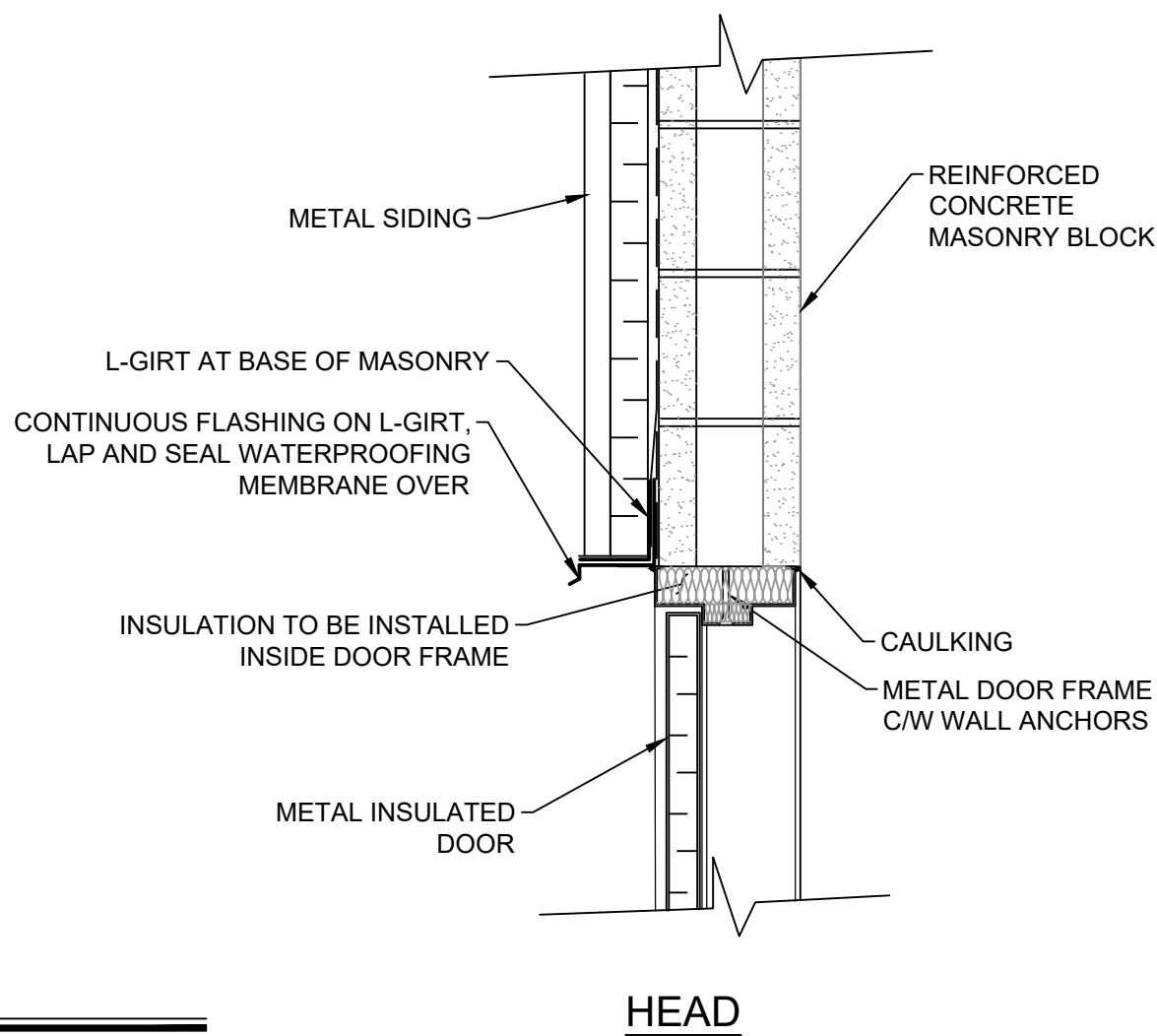
9 DOOR INSTALLATION DETAILS  
A03  
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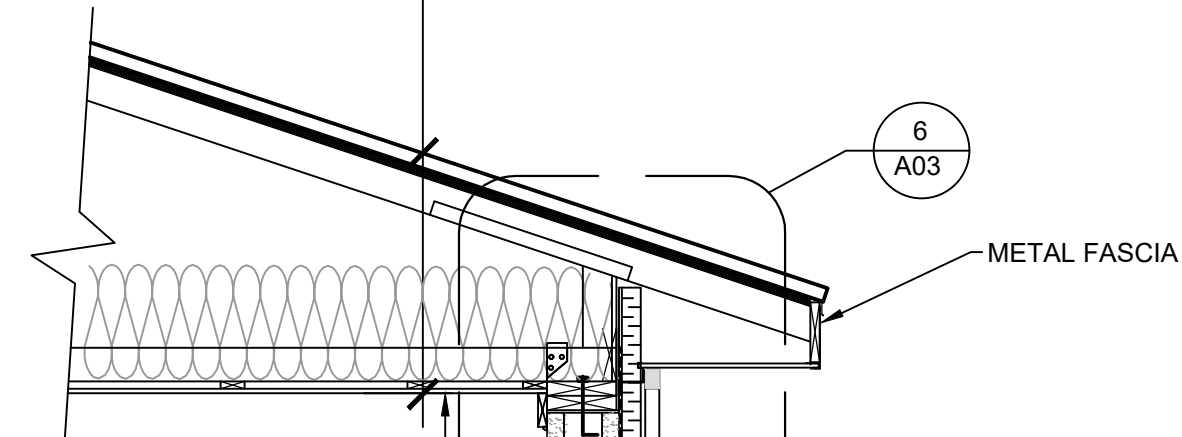
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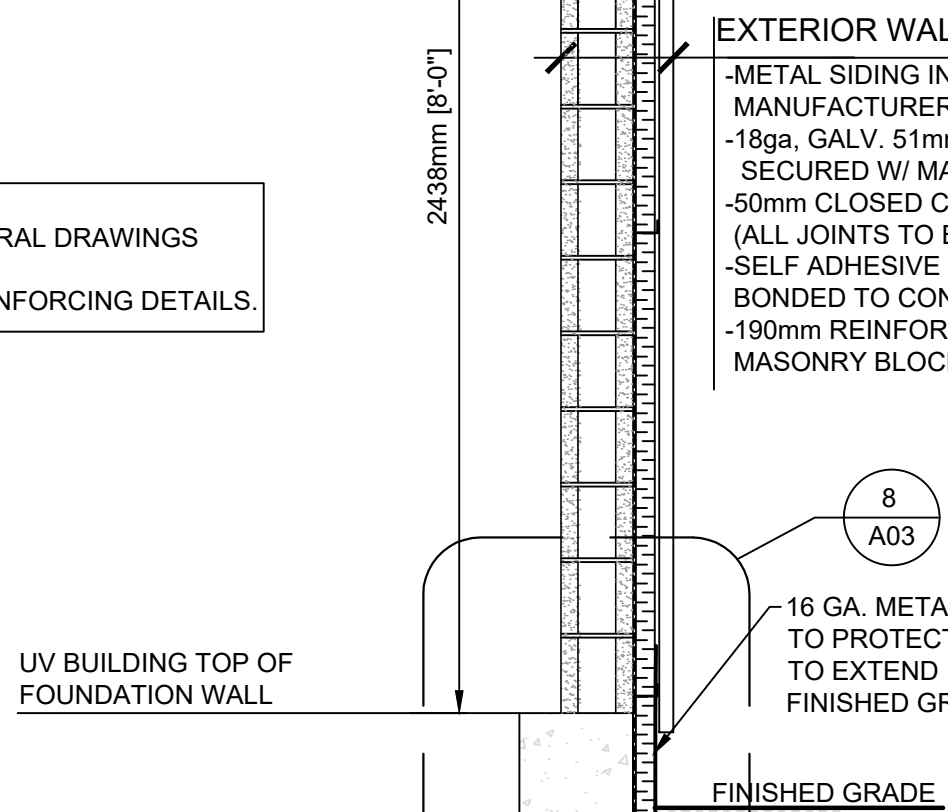
8 SECTION DETAIL AT BASE OF WALL  
A03  
1:10



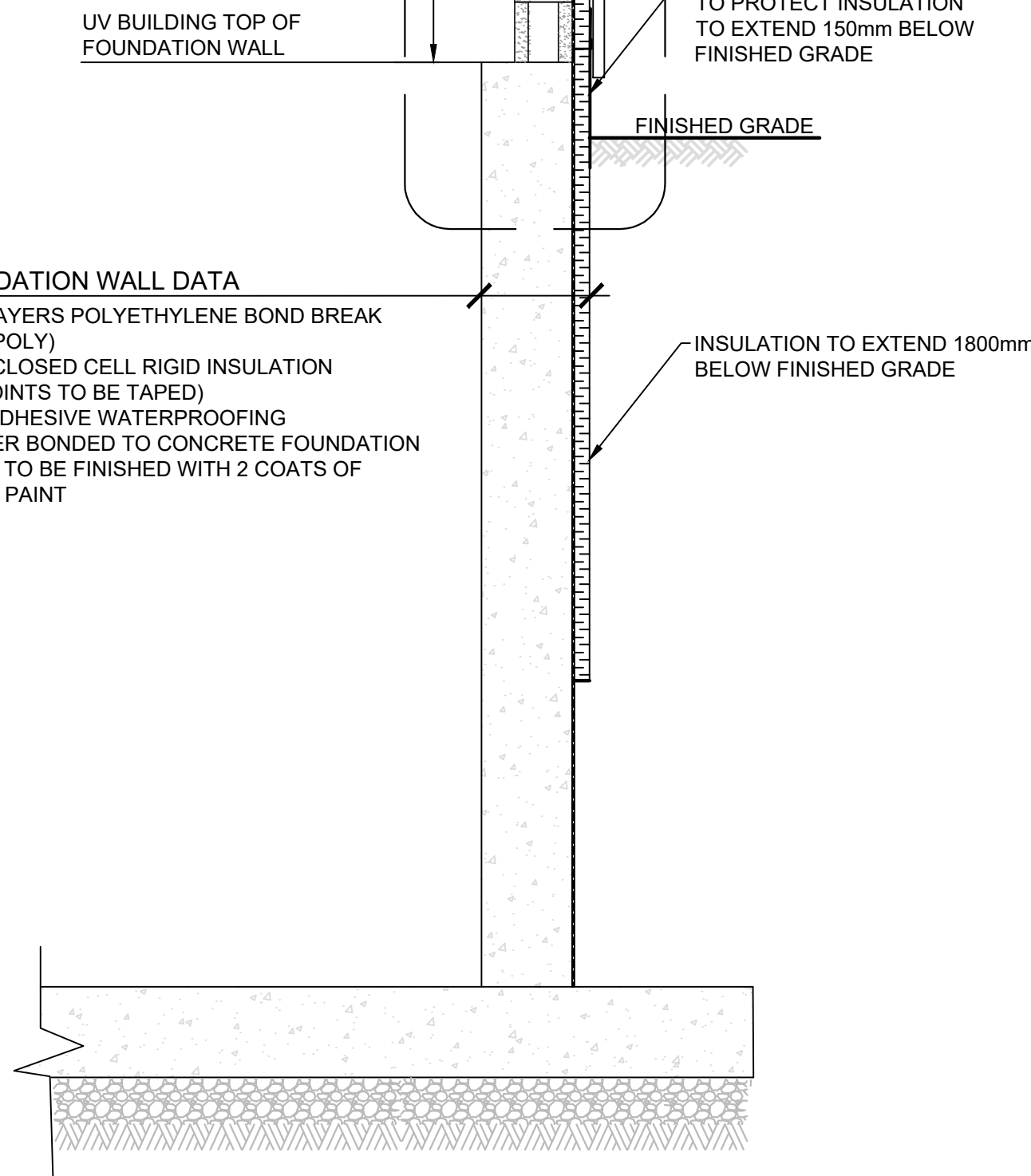
ROOF DATA  
-METAL ROOFING C/W DRIP EDGE AND FLASHING  
-SBS MODIFIED BITUMEN SELF-ADHESIVE HIGH TEMP MEMBRANE  
-19mm T & G PLYWOOD  
-PRE-ENGINEERED 450mm RAISED HEEL ROOF TRUSS @ 600mm O.C.  
-R.S.I. 7 BLOWN-IN INSULATION  
-6 mil VAPOR BARRIER (JOINTS TAPED AND SEALED)  
-19x64mm STRAPPING @ 400mm O.C.  
-METAL PANEL VIC WEST CL 815R PROFILE PAINTED WHITE.



EXTERIOR WALL DATA  
-METAL SIDING INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS  
-18ga, GALV. 51mm 'Z' SUB GIRTS @ 1200 C/C  
-SECURED W/ MASONRY ANCHORS  
-50mm CLOSED CELL RIGID INSULATION (ALL JOINTS TO BE TAPPED AND SEALED)  
-SELF ADHESIVE WATERPROOFING MEMBRANE BONDED TO CONCRETE BLOCK  
-190mm REINFORCED CONCRETE MASONRY BLOCK WATER BASED EPOXY PAINTED



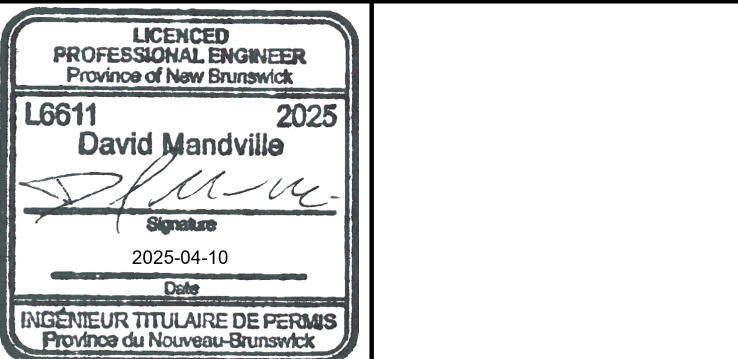
FOUNDATION WALL DATA  
-TWO LAYERS POLYETHYLENE BOND BREAK (6 MIL POLY)  
-50mm CLOSED CELL RIGID INSULATION (ALL JOINTS TO BE TAPED)  
-SELF ADHESIVE WATERPROOFING BARRIER BONDED TO CONCRETE FOUNDATION  
-WALLS TO BE FINISHED WITH 2 COATS OF EPOXY PAINT



10 TYPICAL WALL SECTION  
A03  
1:20

- NOTES
- REFER TO SPECIFICATIONS FOR PIPE PENETRATION SEAL DETAILS.
  - REFER TO STRUCTURAL DRAWINGS FOR PIPE PENETRATION SEAL REINFORCING DETAILS.
  - REFER TO STRUCTURAL DRAWINGS FOR WALL REINFORCING DETAILS OF OPENINGS.
  - REFER TO STRUCTURAL DRAWINGS FOR REINFORCED CONCRETE WALL, SLAB AND CONCRETE BLOCK DETAILS.
  - REFER TO SPECIFICATIONS FOR FINISH CONCRETE FLOOR TREATMENT REQUIREMENTS.

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NO.	DATE	REVISIONS	BY	APPR.



PROJECT TITLE  
**UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01**

NEQOTKUK N.B.

DRAWING TITLE  
**NEW UV BUILDING, TYPICAL CONSTRUCTION DETAILS**

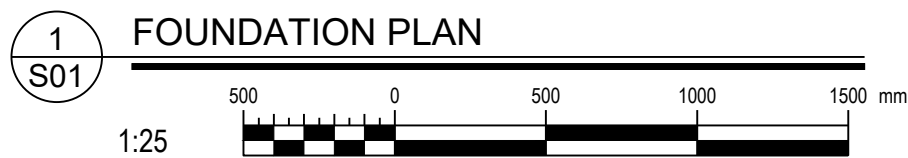
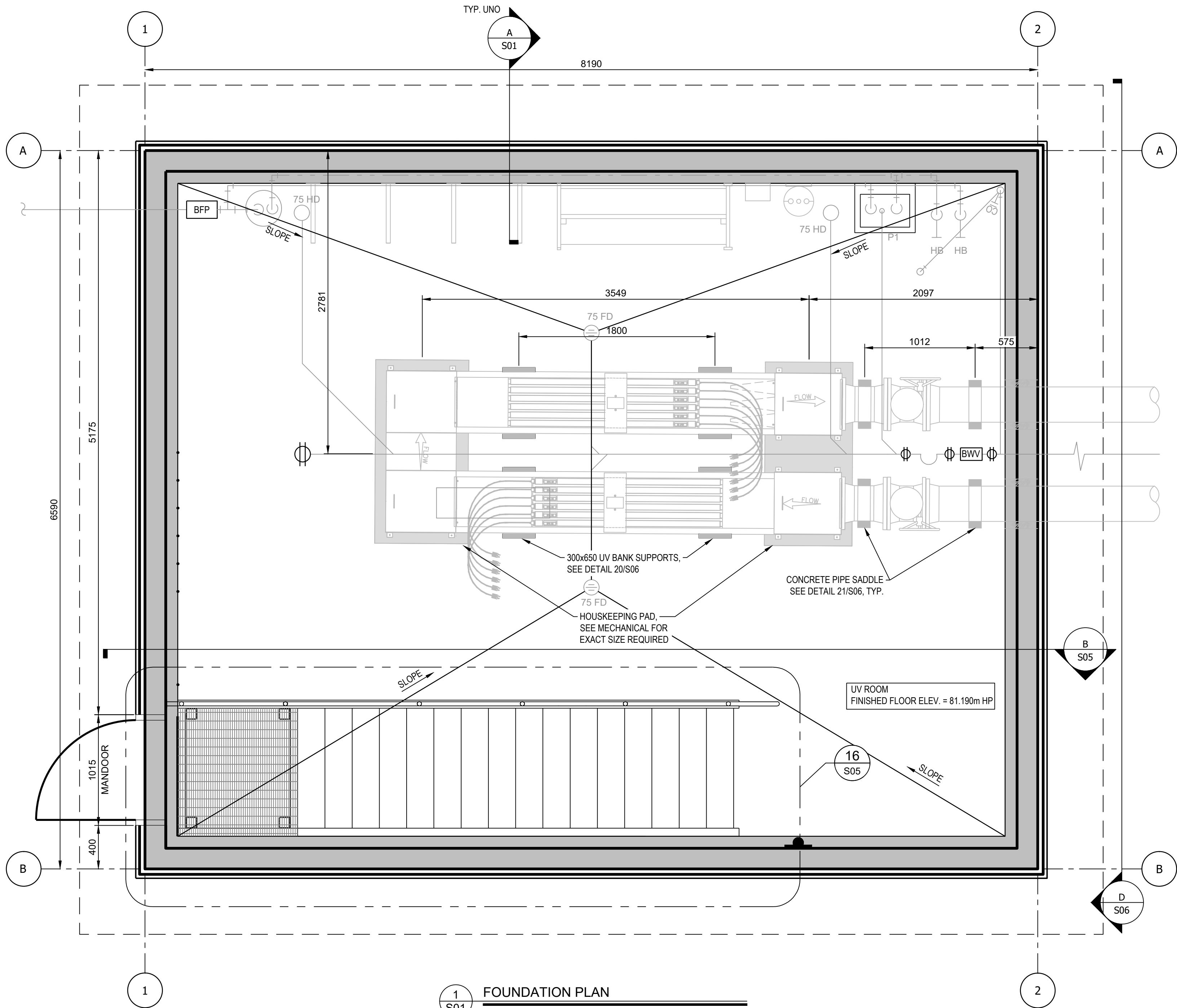
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#### ABBREVIATIONS:

ALT. = ALTERNATE  
ARCH. = ARCHITECTURAL  
B = BOTTOM  
BL = BOTTOM LOWER LAYER  
BTWN = BETWEEN  
BUL = BOTTOM UPPER LAYER  
CANT. = CANTILEVER  
C.J. = CONSTRUCTION JOINT  
CLR = CLEAR COVER  
CMU = CONCRETE MASONRY UNIT  
CO = CLEAN OUT  
COJ = CONFIRM ON JOB  
COL. = COLUMN  
COMP. = COMPOSITE  
CONC. = CONCRETE  
CONT. = CONTINUOUS

C/W = COMPLETE WITH  
DIA. = DIAMETER  
DIAG. = DIAGONAL  
DB = DROP BEAM  
DP = DIAGONAL DROP  
DWG = DRAWING  
(E) = EXISTING  
EA = EACH  
EE = EACH END  
EF = EACH FACE  
ELEC. = ELECTRICAL  
ELEV. = ELEVATION  
EMB. = EMBEDDED  
ES = EACH SIDE  
EW = EACH WAY  
EXT. = EXTERIOR  
FAA = FALL ARREST ANCHORS  
FD = FLOOR DRAIN  
FF = FAR FACE

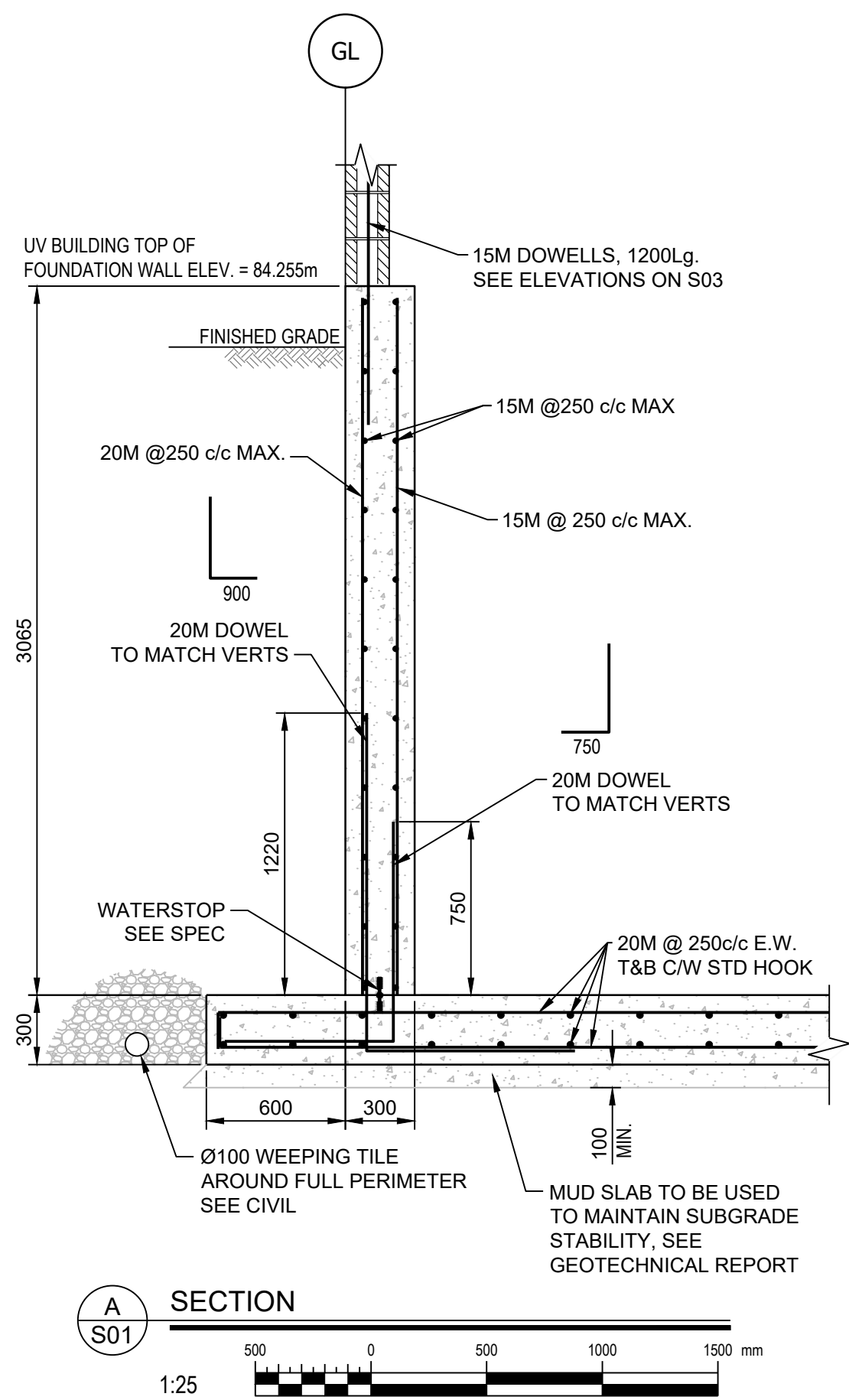
FTG = FOOTING  
GALV. = GALVANIZED  
GA. = GAUGE  
H1E = HOOK ONE END  
H2E = HOOK TWO (BOTH) ENDS  
HD = HUB DRAIN  
H.E.F. = HORIZONTAL EACH FACE  
HK = HOOK  
HORZ. = HORIZONTAL  
HP = HIGH POINT  
HSS = HOLLOW STRUCTURAL SECTION  
I.D. = INSIDE DIAMETER  
I.J. = ISOLATION JOINT  
INCL. = INCLUDING  
INT. = INTERIOR  
LG. = LONG  
LLV = LONG LEG VERTICAL  
(STEEL ANGLE)  
LLH = LONG LEG HORIZONTAL

(STEEL ANGLE)  
MECH. = MECHANICAL  
MIN. = MINIMUM  
MAX. = MAXIMUM  
MC = MOMENT CONNECTION  
NON-FACTORED LOAD KN-m.  
NF = NEAR FACE  
N.T.S. = NOT TO SCALE  
O.C. = ON CENTER  
OWSJ = OPEN WEB STEEL JOIST  
OPP. = OPPOSITE  
PERP. = PERPENDICULAR  
PL = PLATE  
REINF. = REINFORCING  
R.T.U. = ROOF TOP UNIT  
R/W = REINFORCED WITH  
S.C. = SAW CUT  
SIM = SIMILAR  
S.O.G. = SLAB ON GRADE

S.S. = STAINLESS STEEL  
STND. = STANDARD  
t = THICKNESS  
T&B = TOP AND BOTTOM  
THK = THICK  
TJ = TIE JOIST  
T.O. = TOP OF  
T.O.C. = TOP OF CONCRETE  
T.O.S. = TOP OF STEEL  
TLL = TOP LOWER LAYER  
TUL = TOP UPPER LAYER  
TYP. = TYPICAL  
U.N.O. = UNLESS NOTED OTHERWISE  
U/S = UNDERSIDE  
V.E.F. = VERTICAL EACH FACE  
VERT. = VERTICAL  
W/ = WITH

#### GENERAL NOTES:

- CHECK ALL DIMENSIONS WITH ARCHITECTURAL, CIVIL, MECHANICAL, PROCESS AND ELECTRICAL DRAWINGS AND REPORT DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORK. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- COORDINATE WORK WITH ARCHITECTURAL, CIVIL, MECHANICAL, PROCESS AND ELECTRICAL DRAWINGS AND REPORT ANY INCONSISTENCIES TO THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- ALL WORK SHALL BE CARRIED OUT AND COMPLY WITH THE NATIONAL BUILDING CODE OF CANADA (LATEST EDITION), LOCAL BY-LAWS, GAVERNING CONSTRUCTION SAFETY REGULATION AND/OR LEGISLATION, AND ALL REGULATIONS SET BY GOVERNING BODY AND/OR AUTHORITY HAVING JURISDICTION. IN CASE OF CONFLICT OR DISCREPANCY THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
- SUBSTITUTION FROM SPECIFIED PRODUCTS AND MATERIALS MUST BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL REIMBURSE THE CONSULTANT(S)/ ENGINEER FOR ADDITIONAL COSTS INCURRED AS A RESULT OF REVIEWING ANY CHANGES TO THE CONTRACT DOCUMENTS.
- DIMENSIONS ARE IN MILLIMETERS (mm) AND ELEVATIONS ARE IN METERS (m) TYPICAL. ALL ELEVATIONS TO BE FIELD VERIFIED AND COORDINATED WITH ALL DISCIPLINE DRAWINGS.
- CO-ORDINATE ALL WORK WITH RELATED TRADES FOR DEPRESSIONS, DOOR, LOUVRE, VENT AND EQUIPMENT OPENINGS, PIPE PENETRATIONS INSERTS AND ITEMS TO BE BUILT INTO ROOF AND WALL SYSTEMS, FOUNDATION FOOTINGS, SLABS AND WALLS.
- FOR ADDITIONAL INFORMATION, NOTES AND REQUIREMENTS, REFER TO SPECIFICATIONS.



#### DESIGN PARAMETERS:

- 2015 NATIONAL BUILDING CODE OF CANADA (GRAND FALLS, NB)
- IMPORTANCE CATEGORY FOR BUILDING = POST-DISASTER
- DESIGN LOAD PER THIS SECTION: UNLESS NOTED OTHERWISE ON THE DRAWINGS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF EQUIPMENT AND COLLATERAL LOADS WITH APPROVED SHOP DRAWINGS AND ALL DISCIPLINES. SEE SPECIFICATION.
- SPECIFIED DEAD LOADS FOR ROOF DESIGN (UNLESS NOTED OTHERWISE):  
a. SLOPED GABLE END WOOD ROOF = 0.9 kPa
- SPECIFIED FLOOR LIVE LOAD (UNLESS NOTED OTHERWISE):  
a. STAIRS, LANDINGS, BASE SLAB AND PIT GRATING = 4.8 kPa
- SPECIFIED GROUND SNOW LOAD ( $S_g$ ) = 3.6 kPa
- SPECIFIED RAIN LOAD ( $S_r$ ) = 0.6 kPa
- ROOF DESIGN SNOW LOAD:  
a. CASE 1: SAME LOAD (UPWIND/DOWNWIND) = 4.08 kPa (ULS), 2.93 (SLS)  
b. CASE 2: UNBALANCED (UPWIND/DOWNWIND) = 0.75 kPa / 4.65 kPa (ULS), 0.54 kPa / 3.35 kPa (SLS)
- SPECIFIED WIND LOAD ( $q(1/10)$ ) = 0.37 kPa, ( $q(1/50)$ ) = 0.48 kPa  
SPECIFIED ROOF UPLIFT DUE TO WIND: SEE UPLIFT DIAGRAMS
- SPECIFIED SEISMIC:  
a. SITE CLASS: C  
b.  $S_a(0.2s)$  (g) = 0.144  
c.  $S_a(0.5s)$  (g) = 0.096  
d.  $S_a(1.0s)$  (g) = 0.058  
e.  $S_a(2.0s)$  (g) = 0.03  
f.  $S_a(5.0s)$  (g) = 0.0078  
g.  $S_a(10.0s)$  (g) = 0.0034  
h. PGA (g) = 0.088  
i. PGV (m/s) = 0.102  
j. SFRS: (MASONRY-CONVENTIONAL CONSTRUCTION - SHEAR WALLS)  $R_d = 1.5$   $R_o = 1.5$
- TEMPORARY CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN PARAMETERS AND SHALL NOT BE APPLIED BEFORE THE STRUCTURE HAS SUFFICIENT STRENGTH AND STABILITY.
- FOOTINGS HAVE BEEN DESIGNED BASED ON THE FOLLOWING SOIL BEARING CAPACITIES: SLS 250 kPa, ULS: 300 kPa. BASED ON THE GEOTECHNICAL REPORT BY ENGLOBE; REFER TO THE REPORT FOR ANY PARTICULARS AS TO SOIL CONDITIONS AND FOUNDATION RECOMMENDATIONS. ENSURE THAT THE REQUIREMENTS OUTLINED IN THE GEOTECHNICAL REPORT ARE READ AND UNDERSTOOD PRIOR TO COMMENCING WITH THE FOUNDATION WORK.
- REFERENCE GEOTECHNICAL REPORT FOR SLAB-ON-GRADE SUB-BASE PREPARATION.

#### NOTES

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#### PROJECT TITLE

### UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01

NEQOTKUK N.B.

#### DRAWING TITLE

### NEW UV BUILDING, FOUNDATION PLAN AND SECTIONS

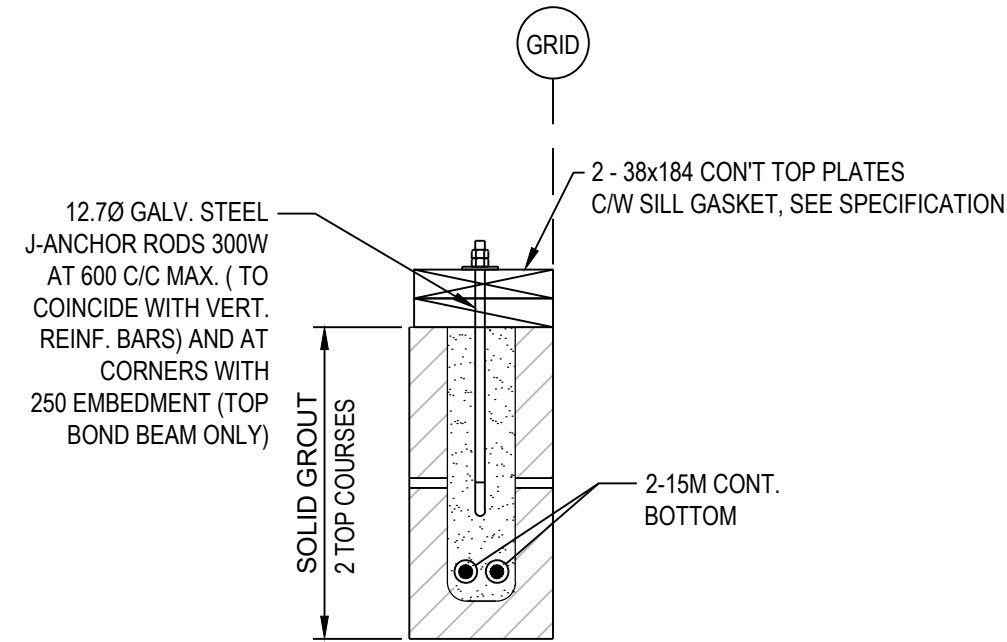
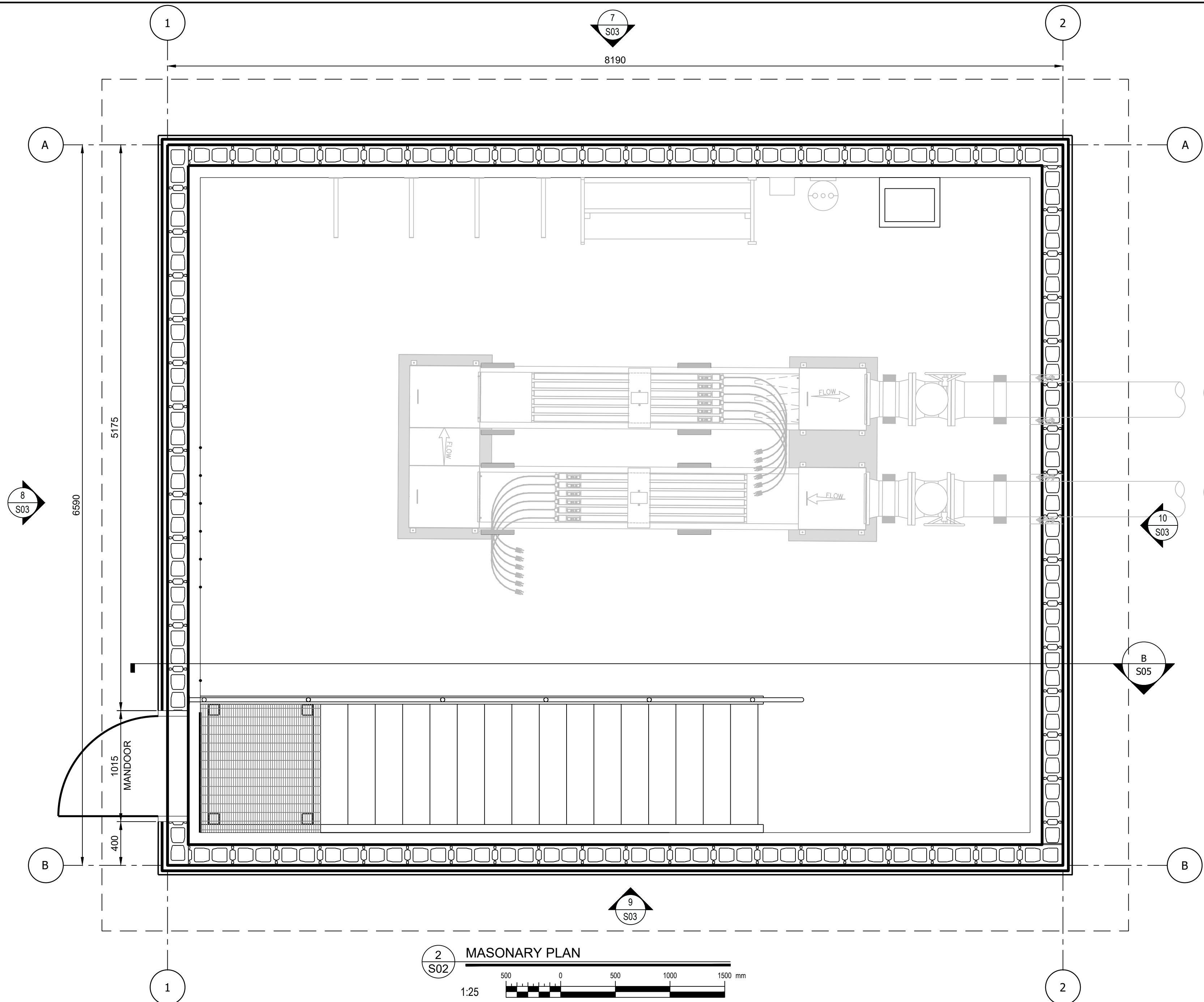
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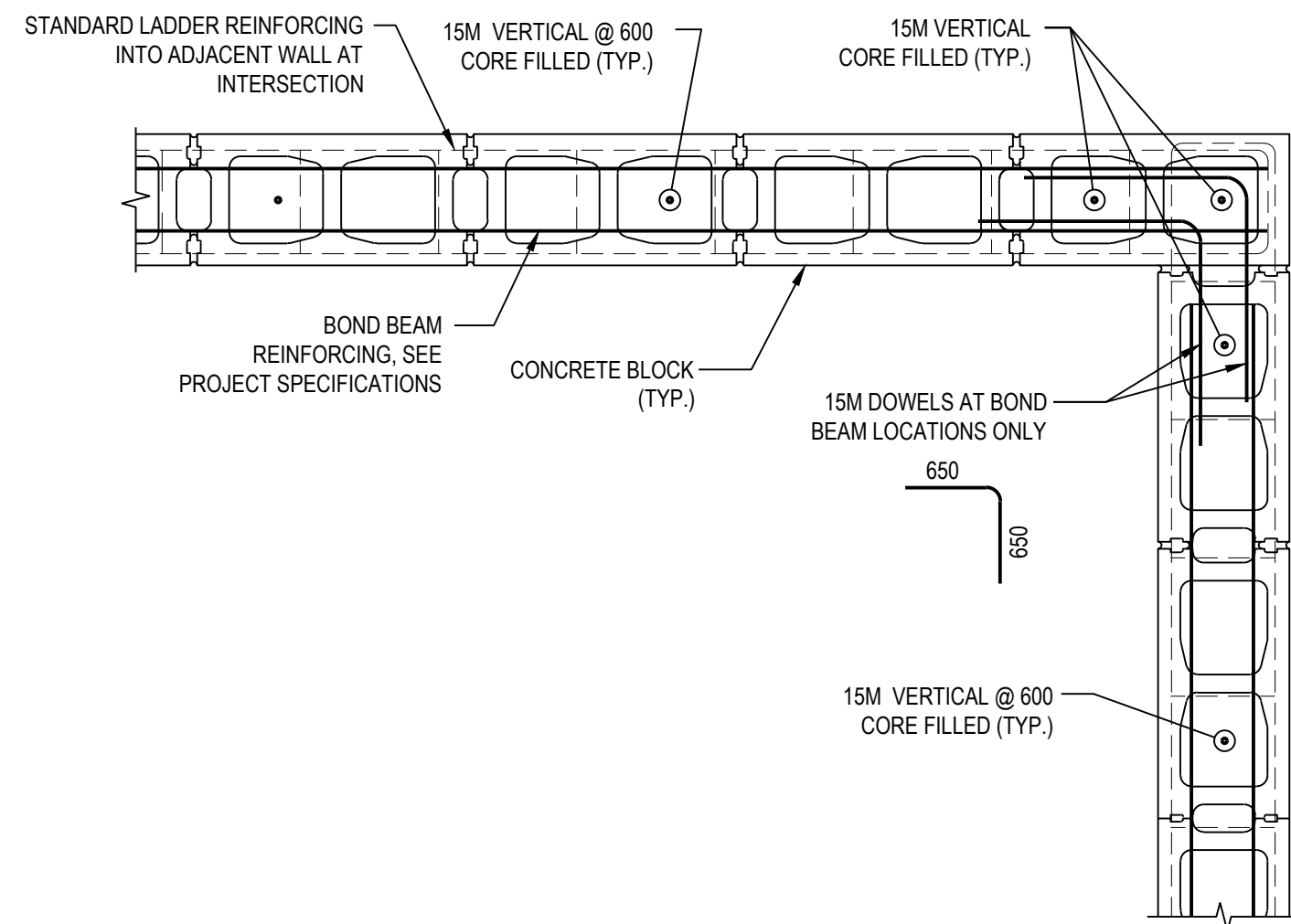
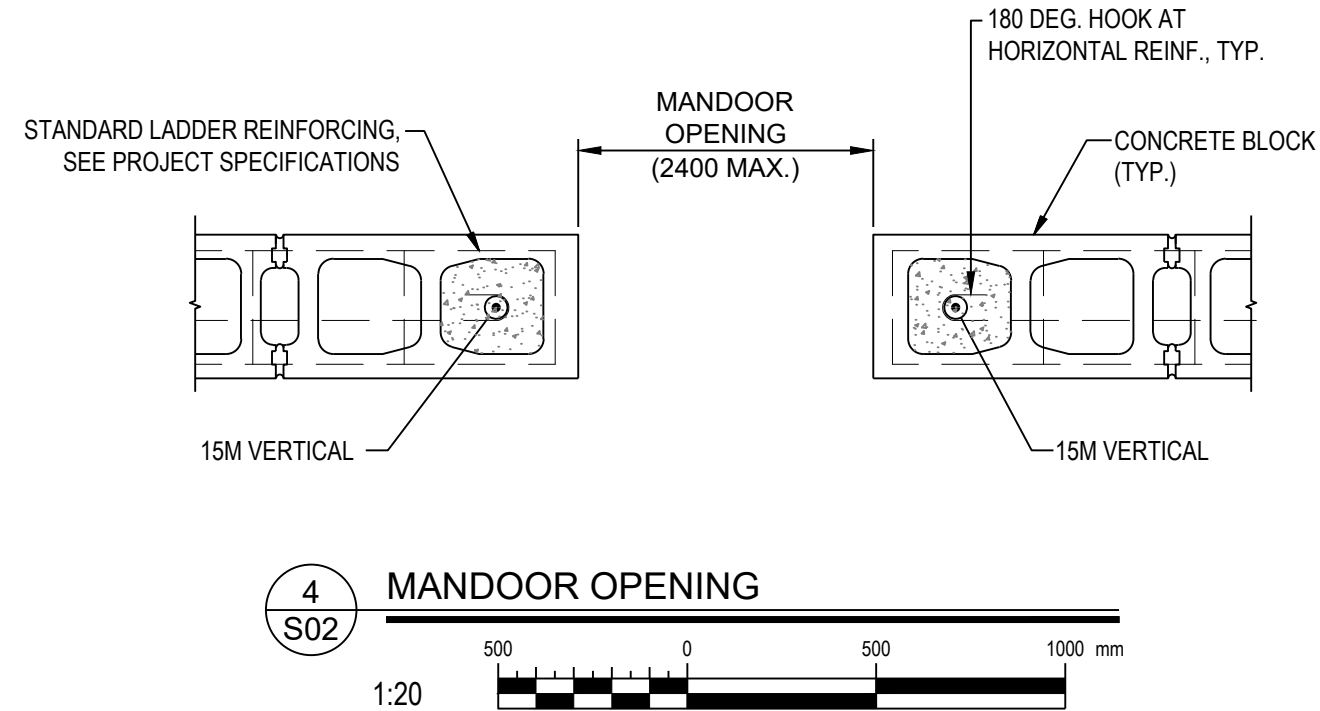
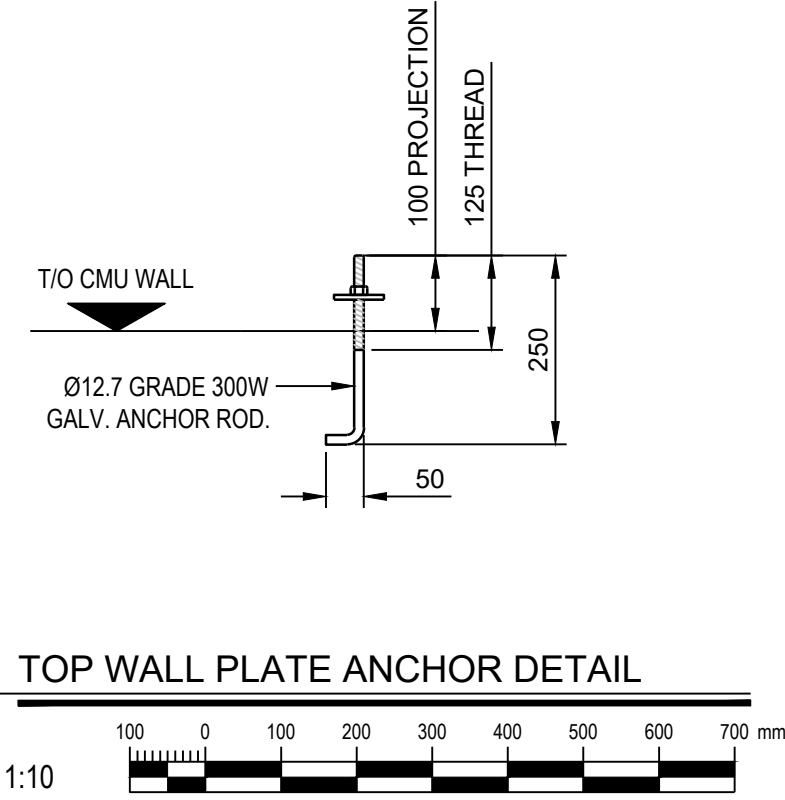
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TYPICAL MASONRY BOND BEAM  
REINFORCEMENT FOR LOAD  
BEARING WALL AT ROOF



## NOTES

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PROJECT TITLE

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WASTEWATER TREATMENT  
FACILITY CLIENT PROJECT NO.  
F-23-NQ-01

NEQOTKUK N.B.

DRAWING TITLE

NEW UV BUILDING,  
MASONRY PLAN AND DETAILS

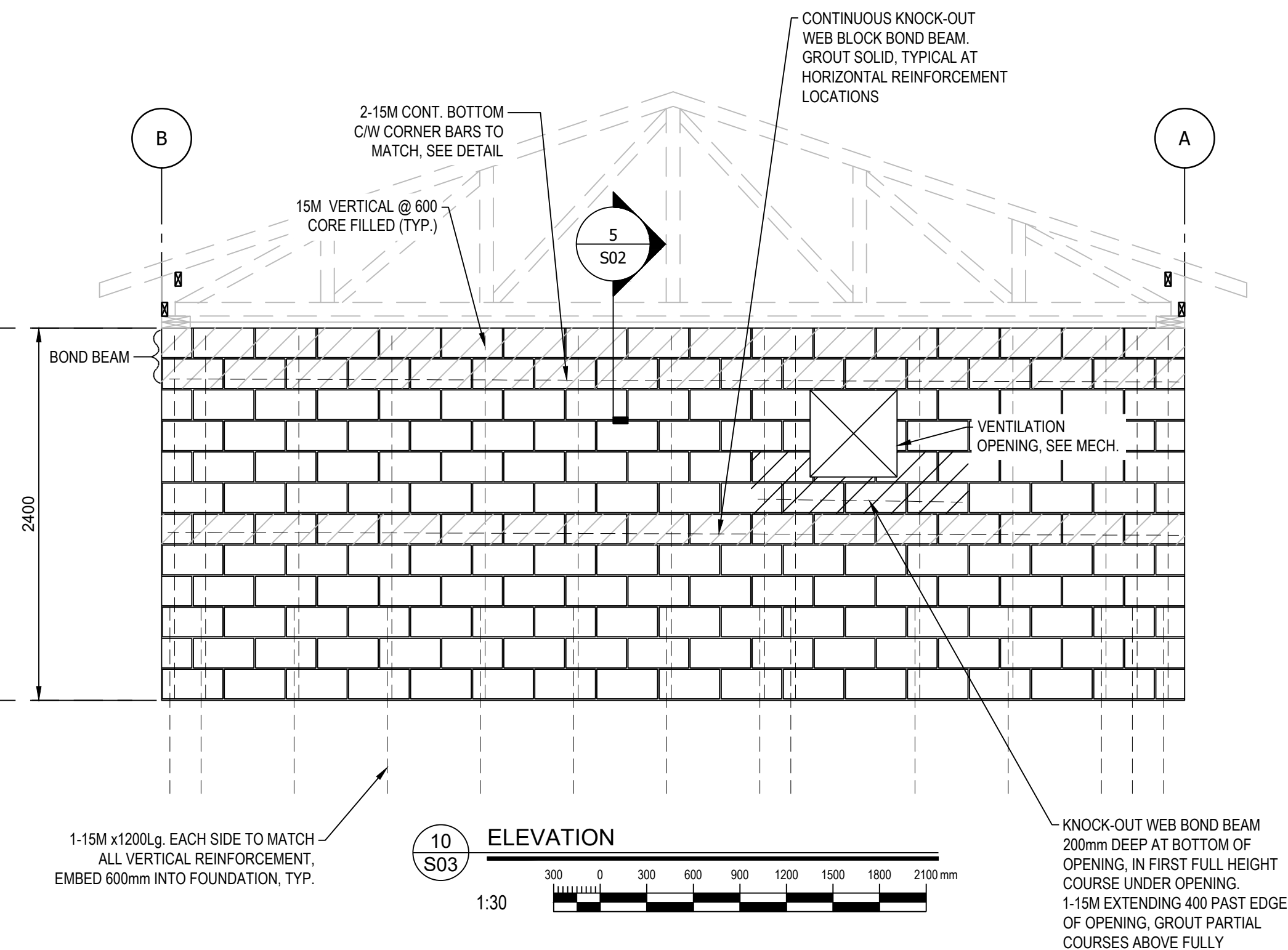
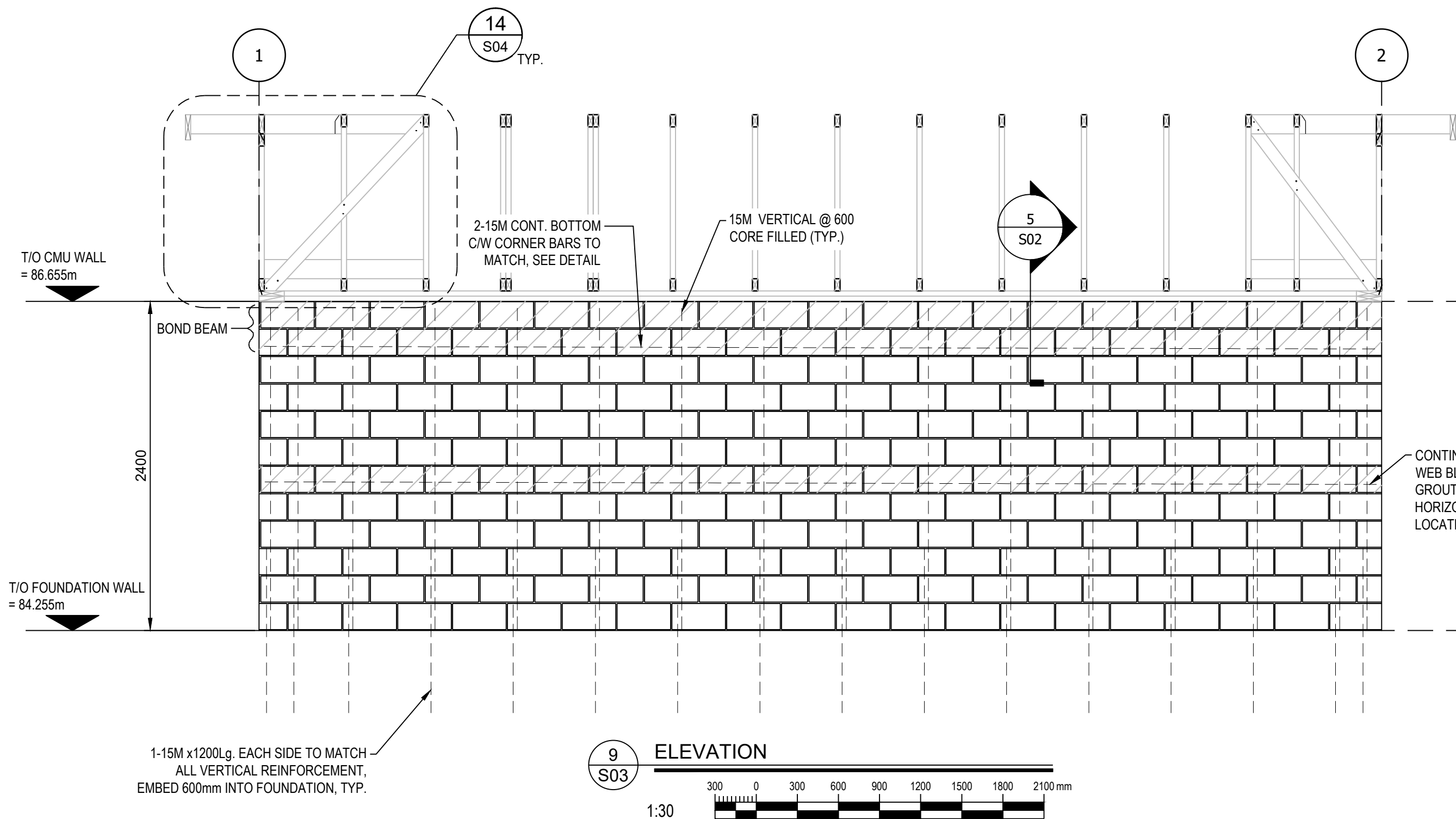
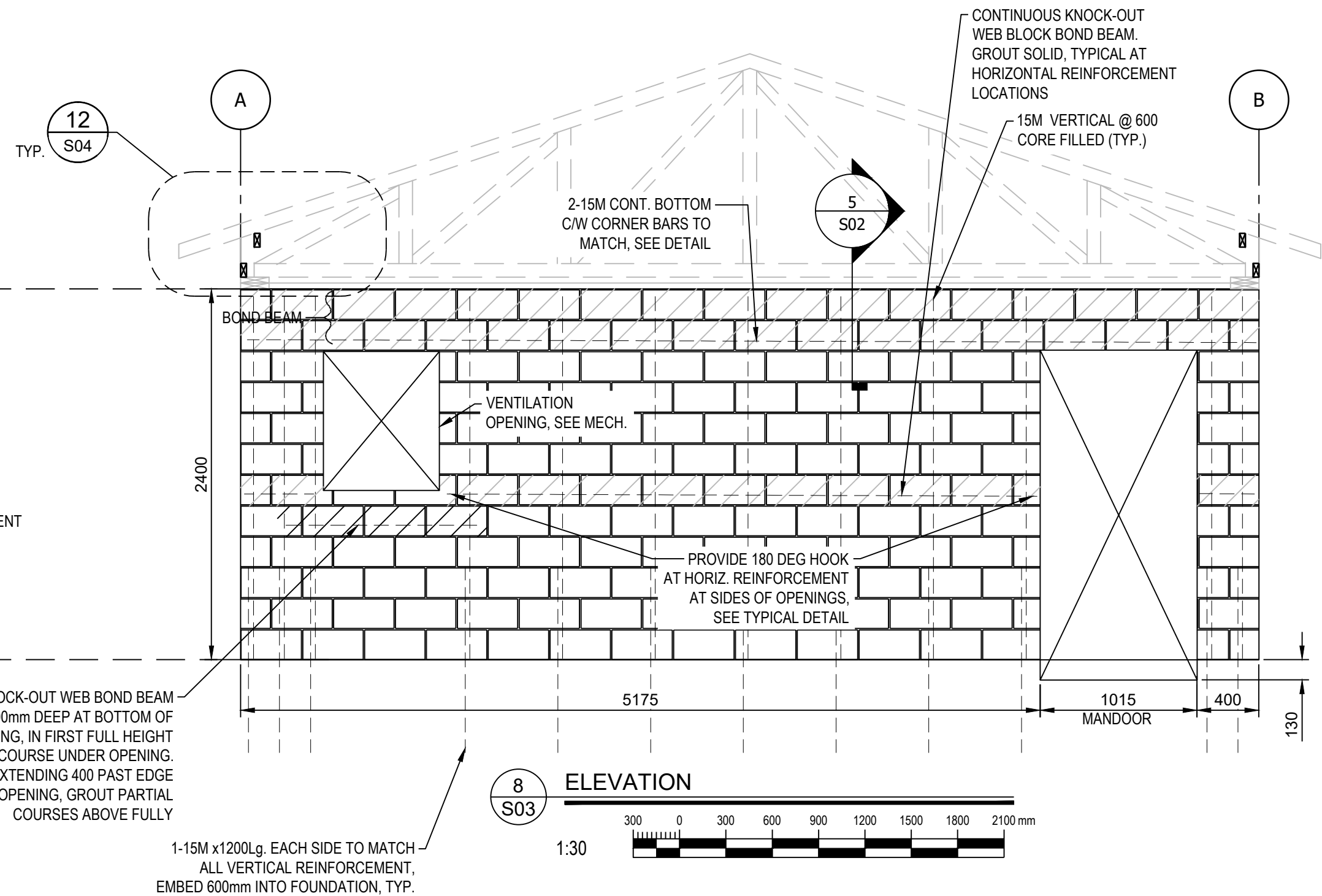
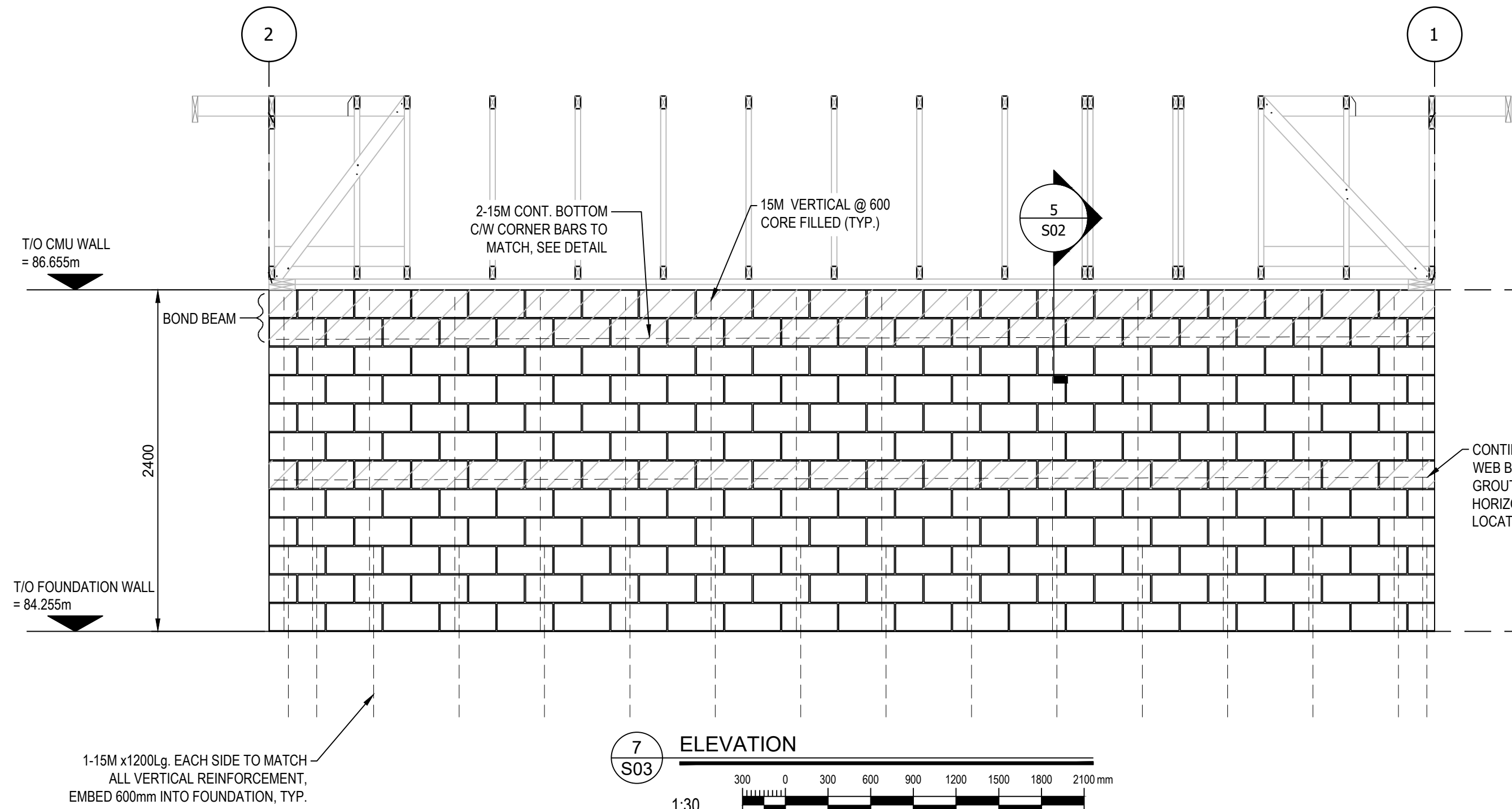
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F-23-NQ-01

NEQOTKUK N.B.

DRAWING TITLE

NEW UV BUILDING,  
MASONRY ELEVATIONS

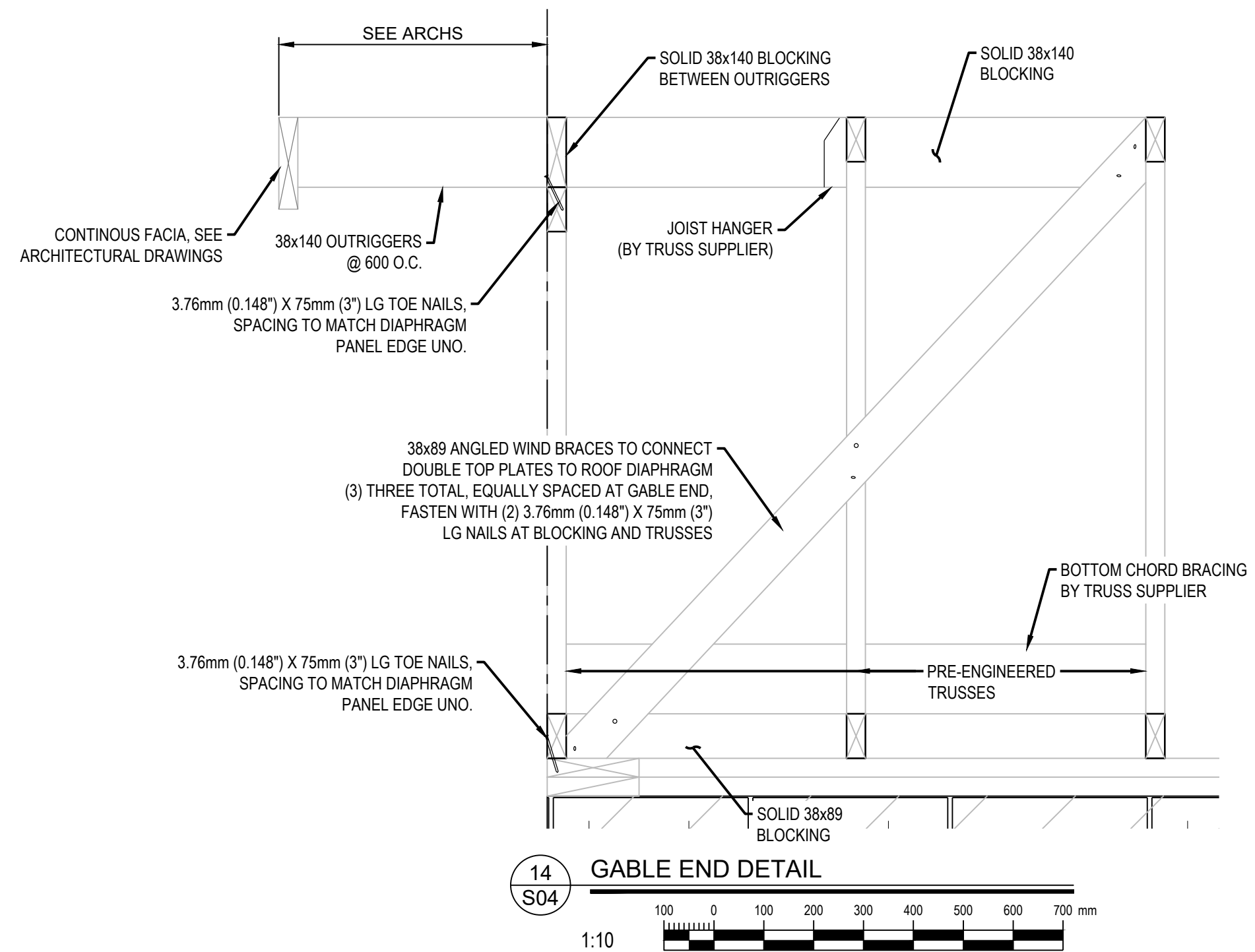
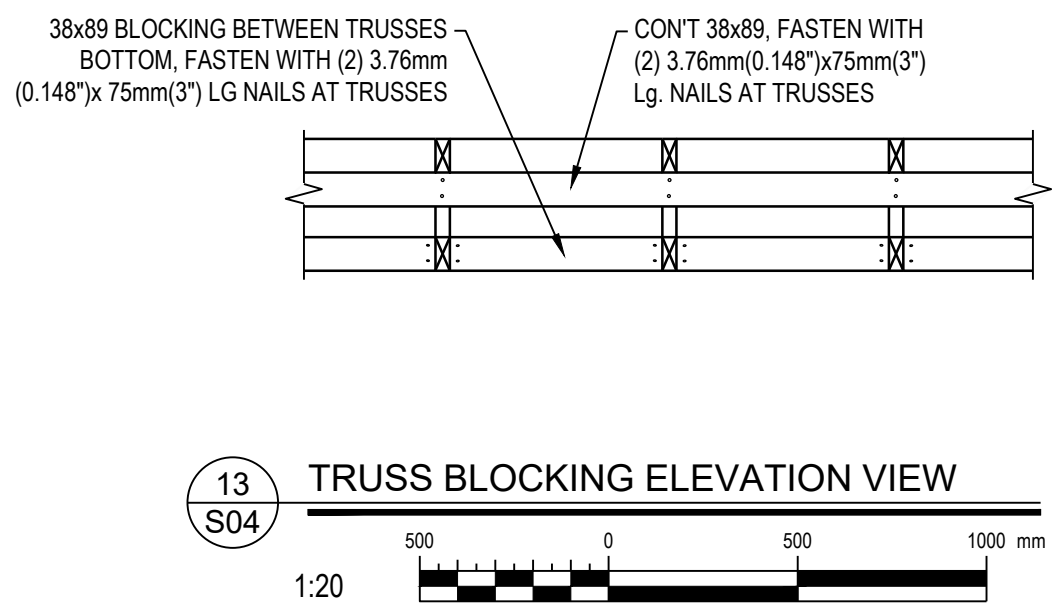
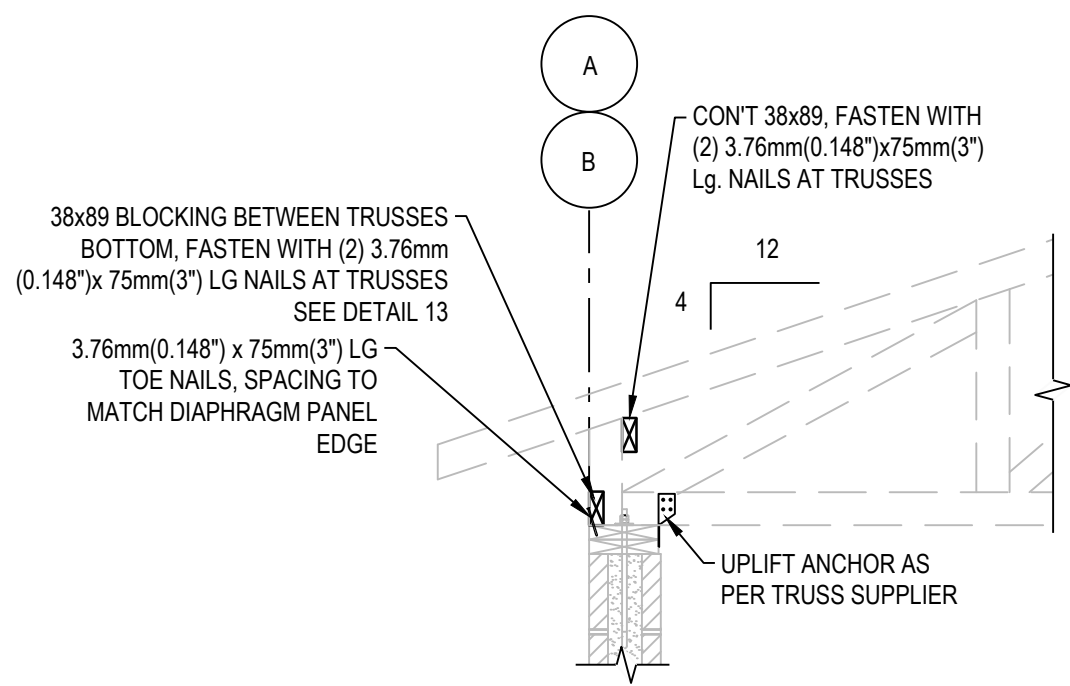
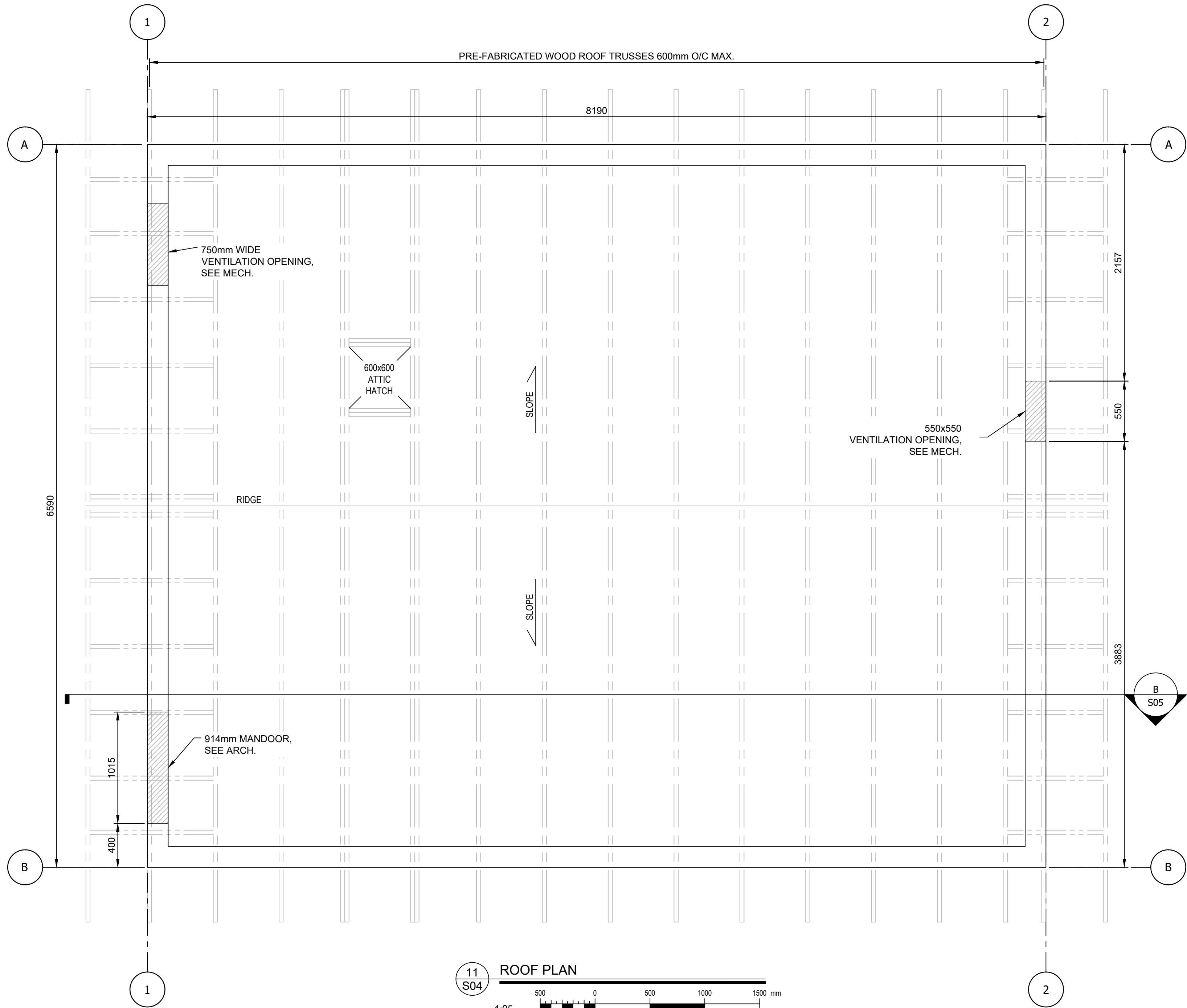
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2308072.001 S.DWG

Drawing No.  
S03



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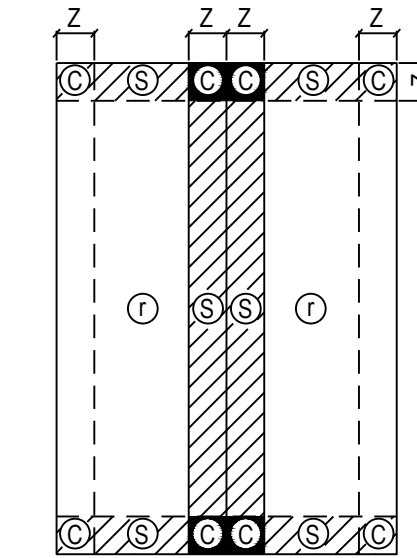
#### WIND LOADS - MAIN ROOF

REF FIG. 4.1.7.6.C NBCC 2015

LOADS ARE UNFACTORED  
IMPORTANCE FACTOR APPLIED

Z = 1.00m  
EXPOSURE = OPEN  
INTERIOR PRESSURE = CATEGORY 3

LEGEND: ——— ROOF WITH OVERHANG  
- - - - - ROOF WITHOUT OVERHANG



#### GABLE ROOFS

7° <  $\alpha$  < 45°

FOR MEMBERS WITH  
5m² < TRIB AREA

REGION -ve

C = -0.68 kPa  
S = -0.51 kPa  
R = -0.68 kPa

REGION +ve

C, S, R = 0.11 kPa

OVERHANGS

OC = -0.51 kPa  
OS = -1.03 kPa  
OR = -1.03 kPa

FOR MEMBERS WITH  
5m² > TRIB AREA

REGION -ve

C = -0.54 kPa  
S = -1.03 kPa  
R = -0.86 kPa

REGION +ve

C, S, R = 0.13 kPa

OVERHANGS

OC = -0.91 kPa  
OS = -1.05 kPa  
OR = -1.05 kPa

#### NOTES

0.0	APR 10/25	ISSUED FOR TENDER	AS	DM
NO.	DATE	REVISIONS	BY	APPR.



PROJECT TITLE

UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT  
FACILITY CLIENT PROJECT NO.  
F-23-NQ-01

NEQOTKUK N.B.

DRAWING TITLE

NEW UV BUILDING,  
ROOF PLAN

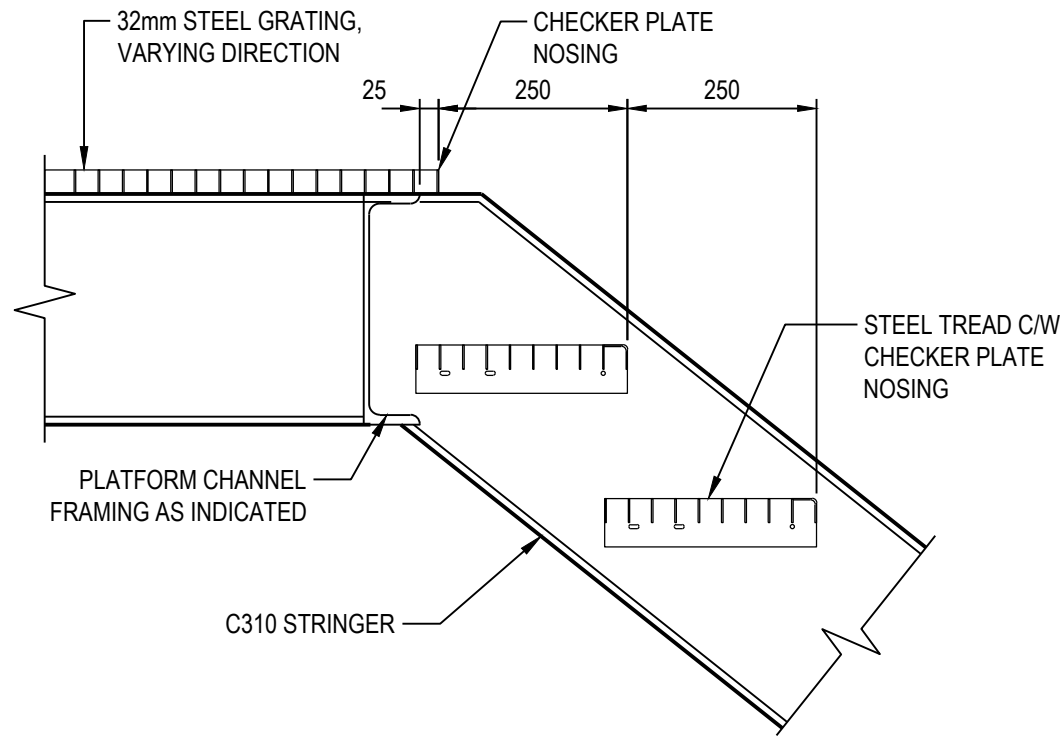
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File Name 2308072.001 S.DWG

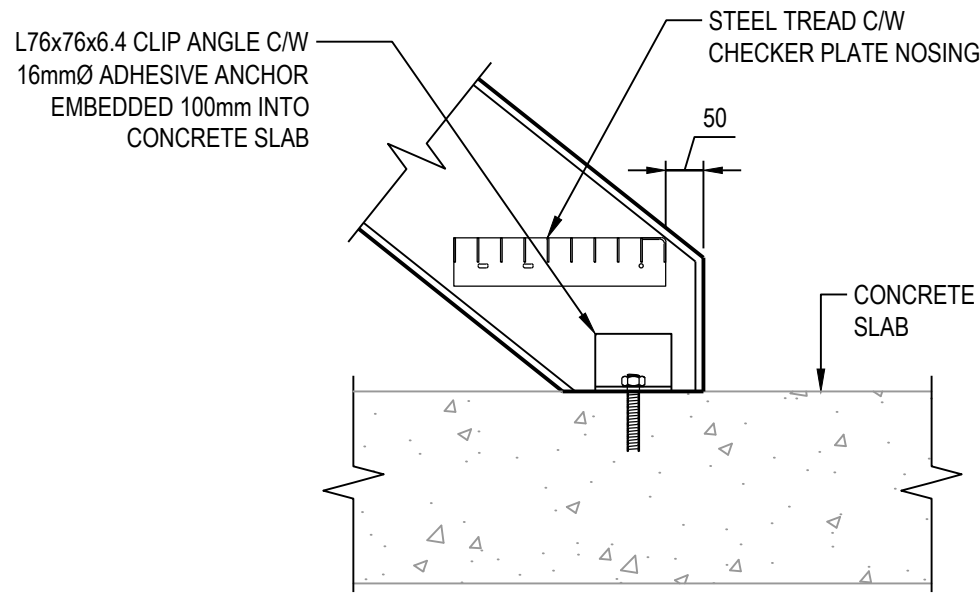
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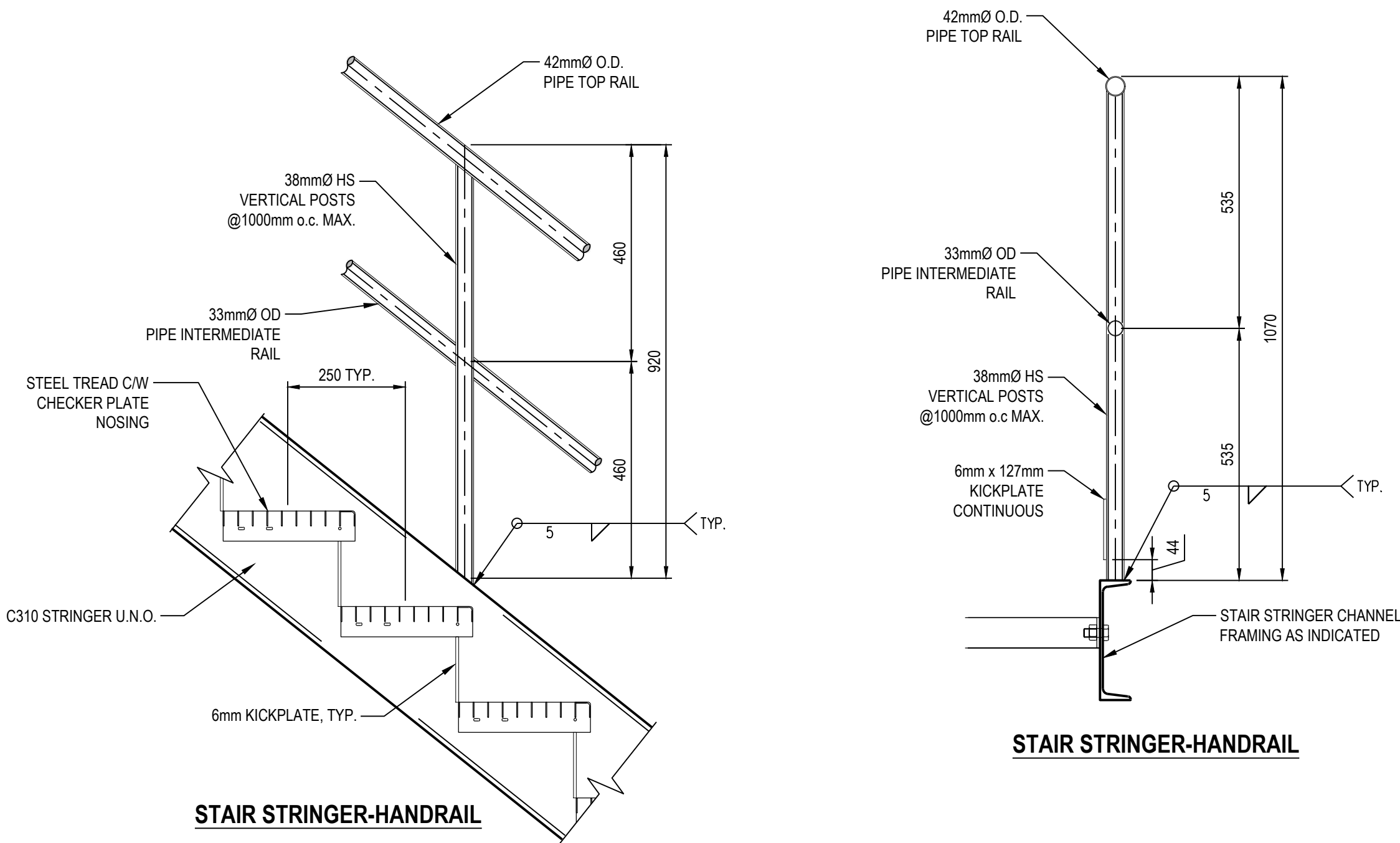
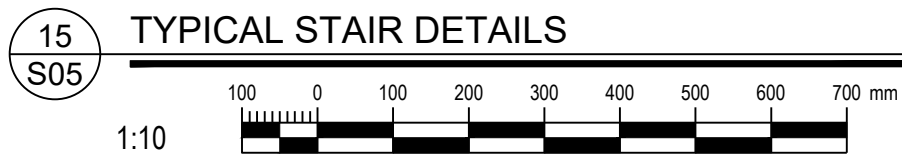
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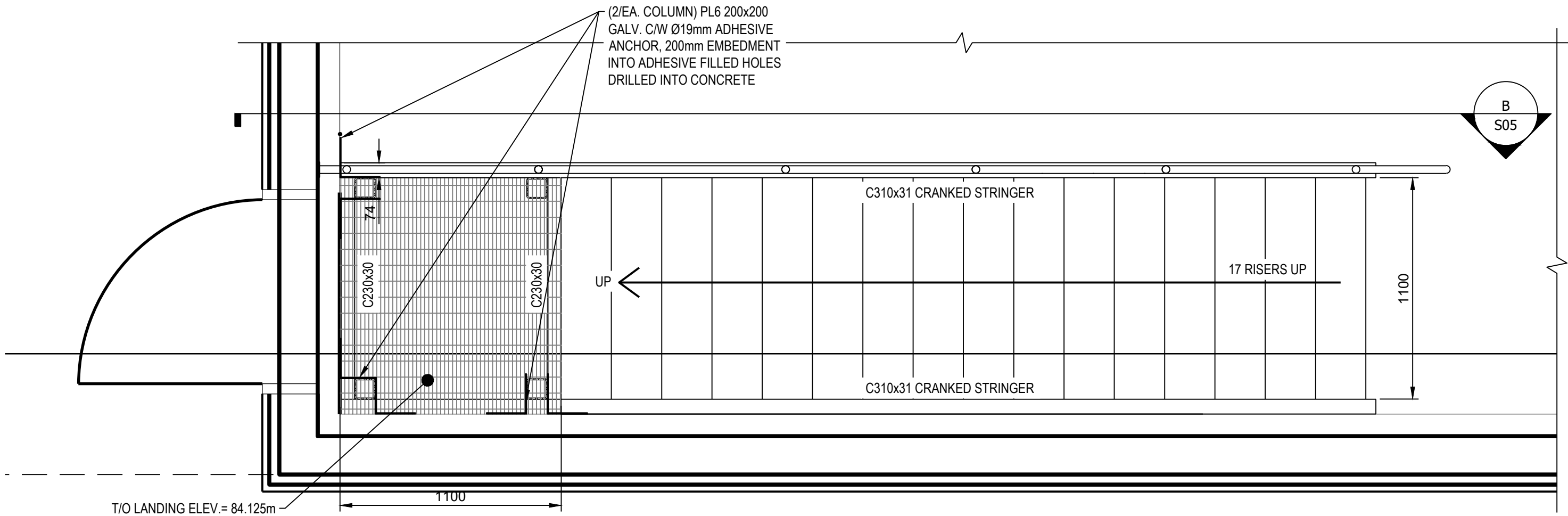
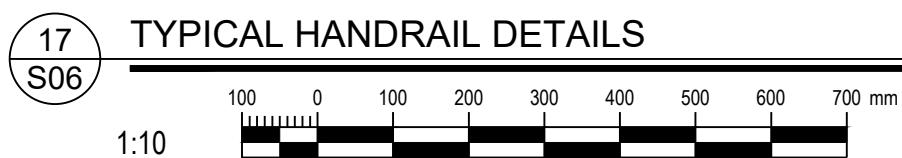
TOP OF LANDING-STEEL



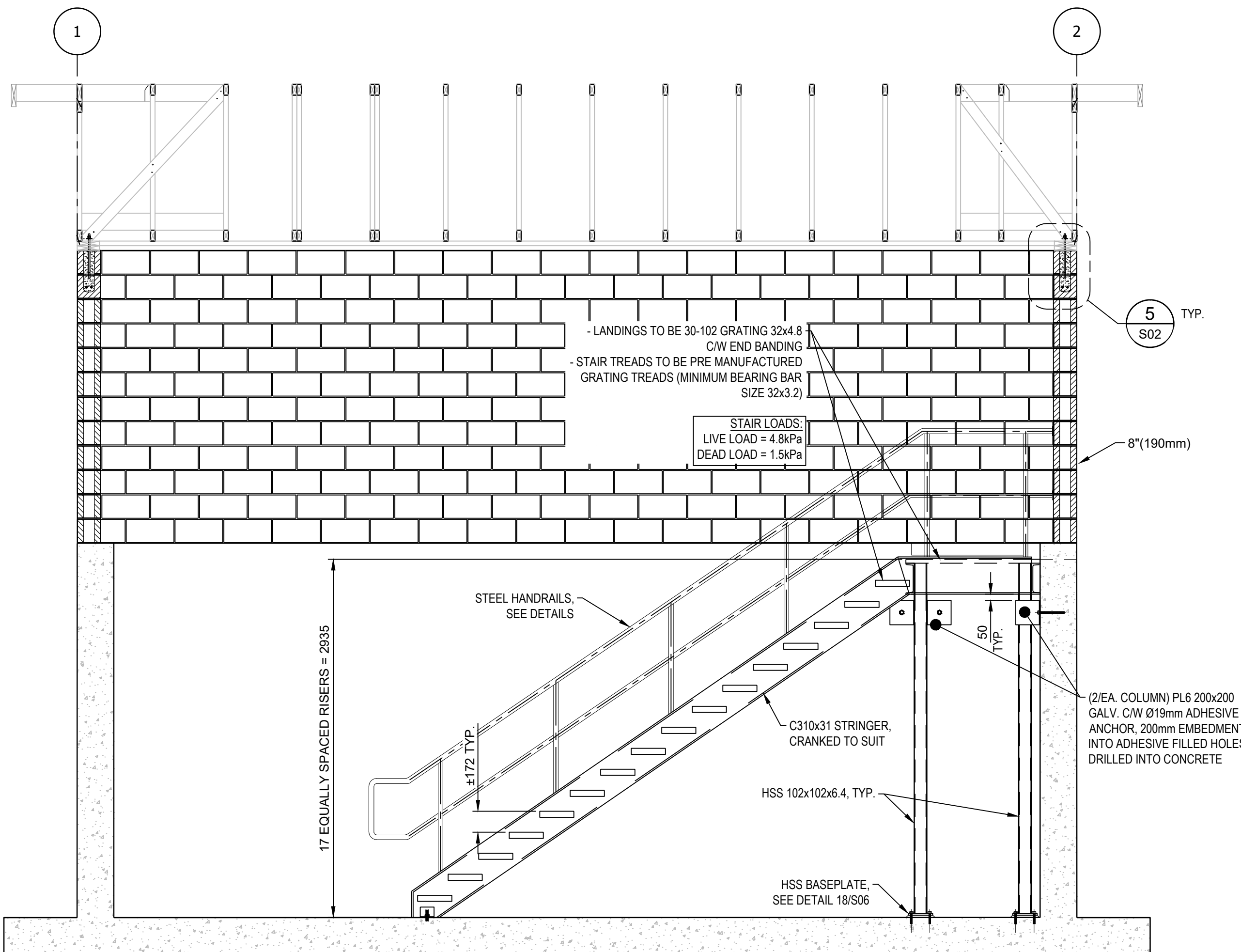
BOTTOM OF STAIRS-CONCRETE



STAIR STRINGER-HANDRAIL



PARTIAL PLAN VIEW - STRUCTURAL STAIRS



SECTION

NOTES

0.0	APR 10/25	ISSUED FOR TENDER	AS	DM
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PROJECT TITLE

UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT  
FACILITY CLIENT PROJECT NO.  
F-23-NQ-01

NEQOTKUK N.B.  
DRAWING TITLE

NEW UV BUILDING,  
STAIR SECTIONS AND DETAILS

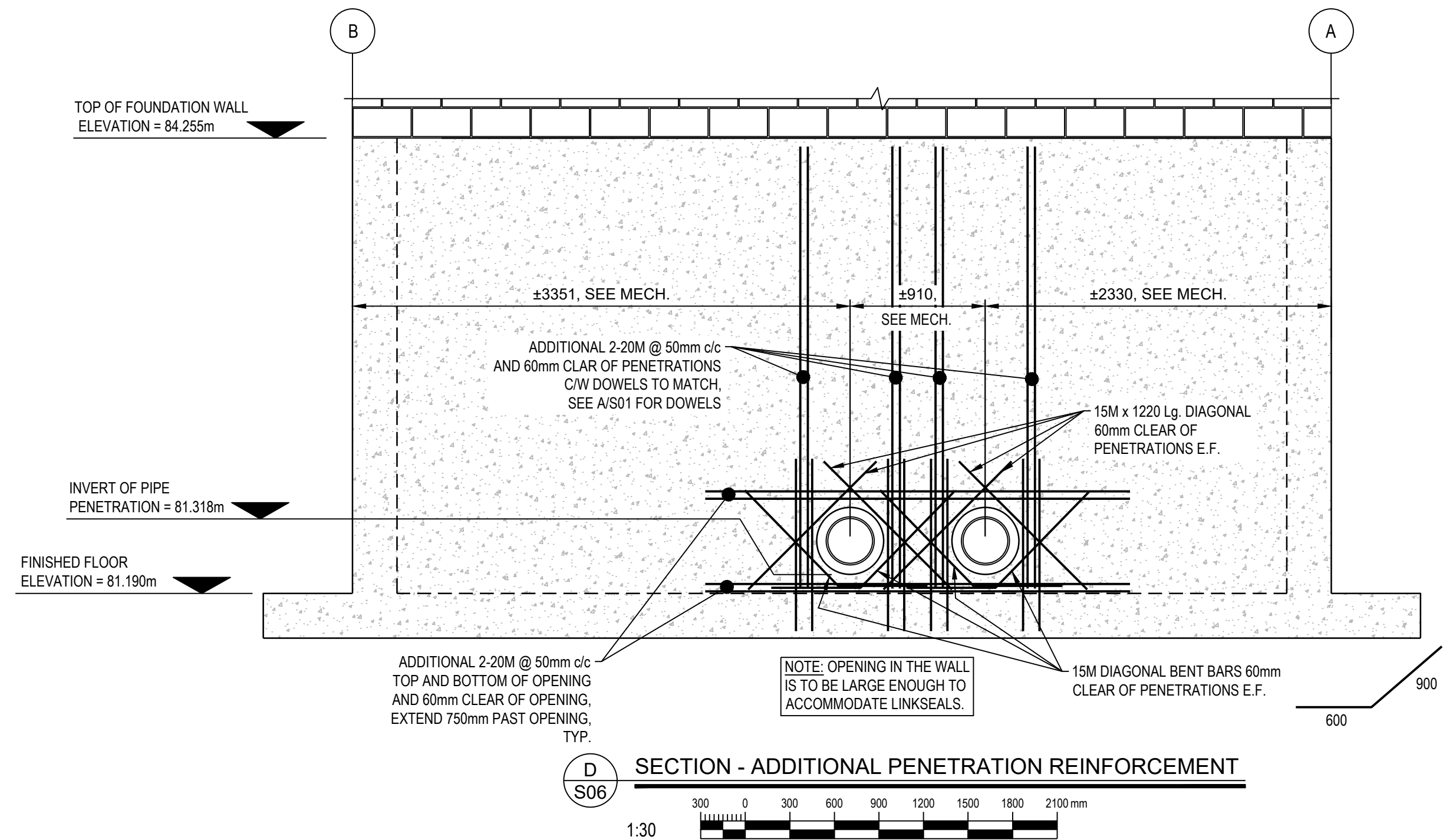
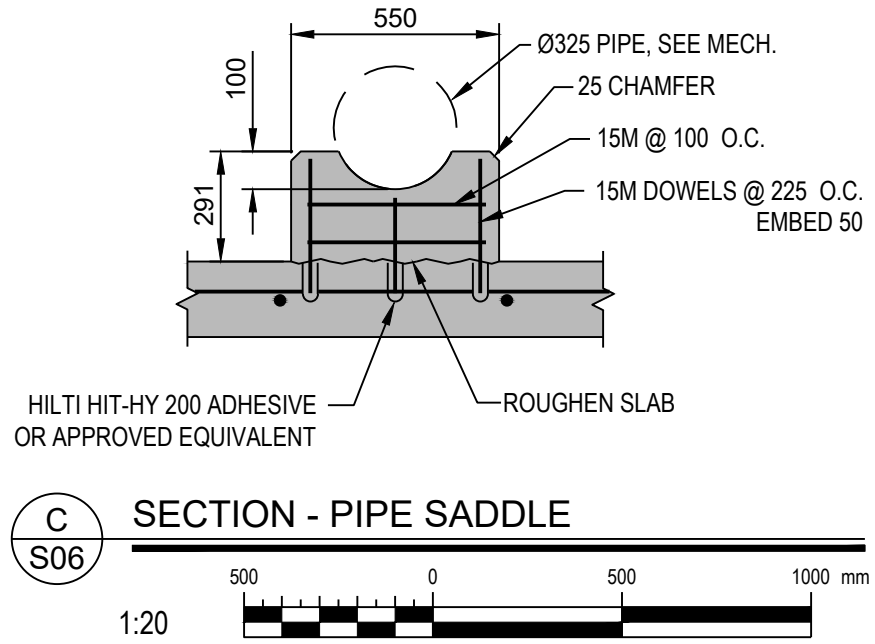
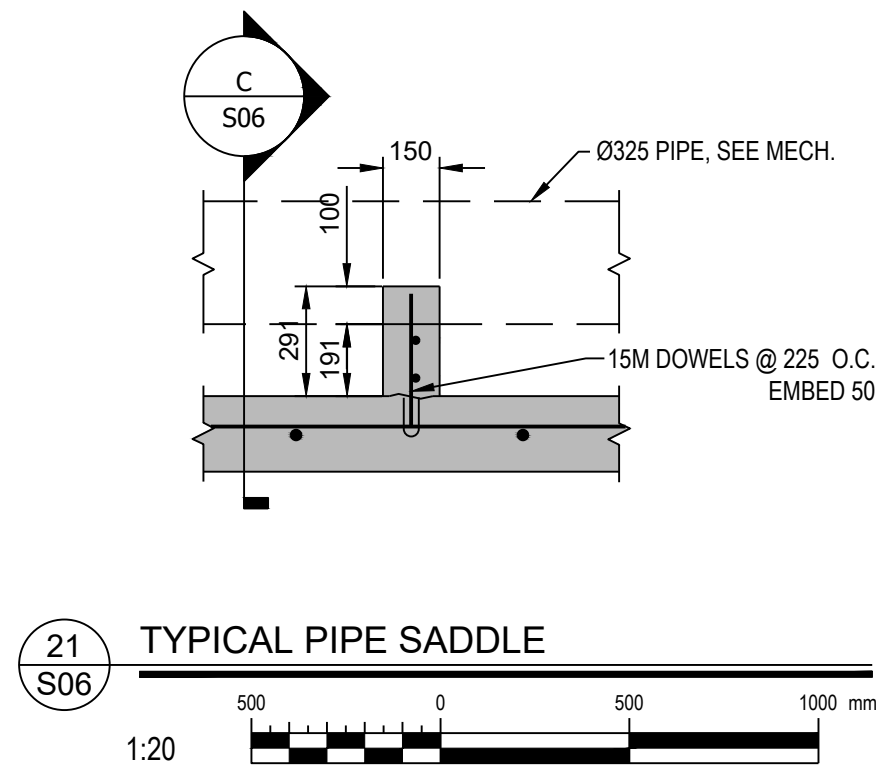
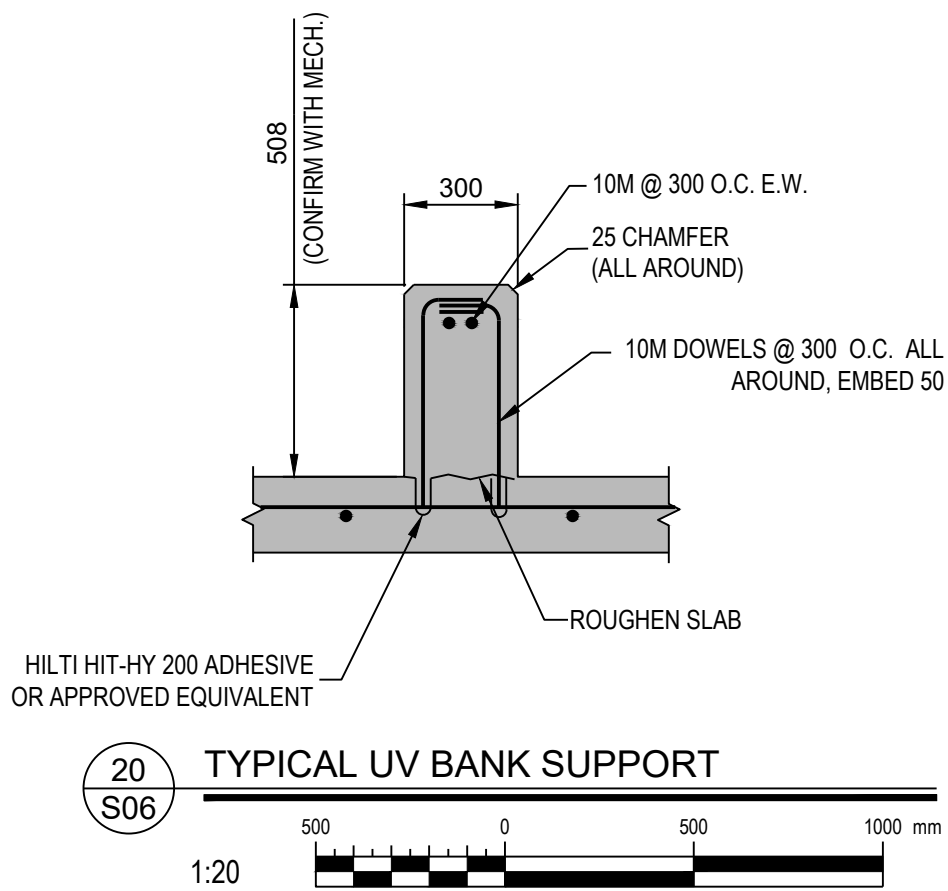
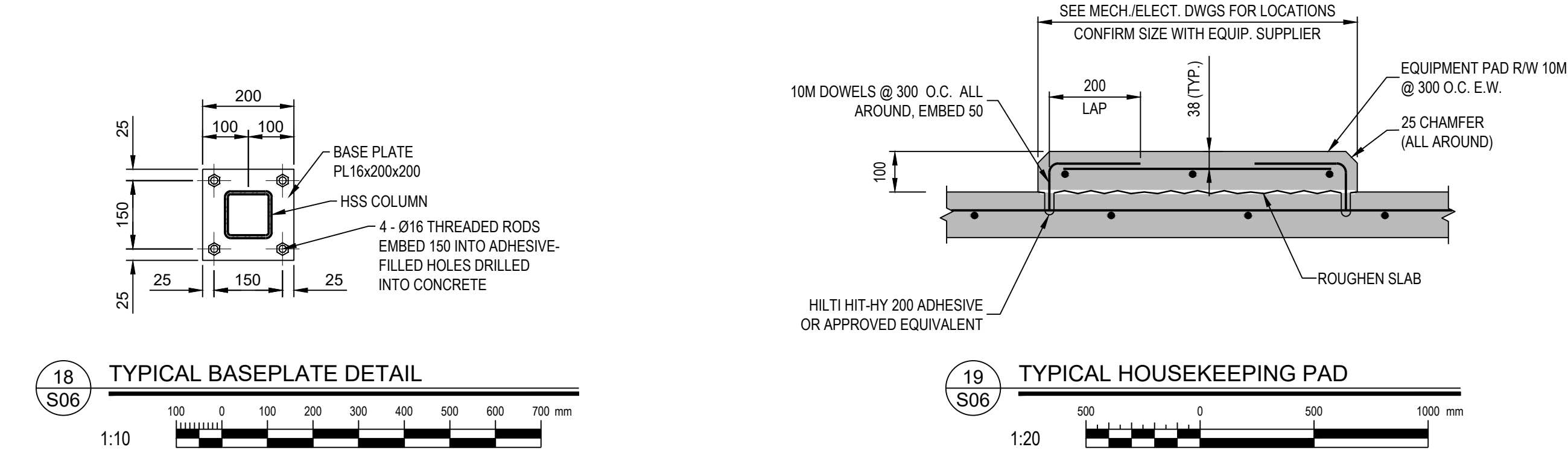
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Drawing No.  
S05



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NOTES

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PROJECT TITLE

UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT  
FACILITY CLIENT PROJECT NO.  
F-23-NQ-01

NEQOTKUK N.B.

DRAWING TITLE

NEW UV BUILDING,  
SECTIONS AND DETAILS

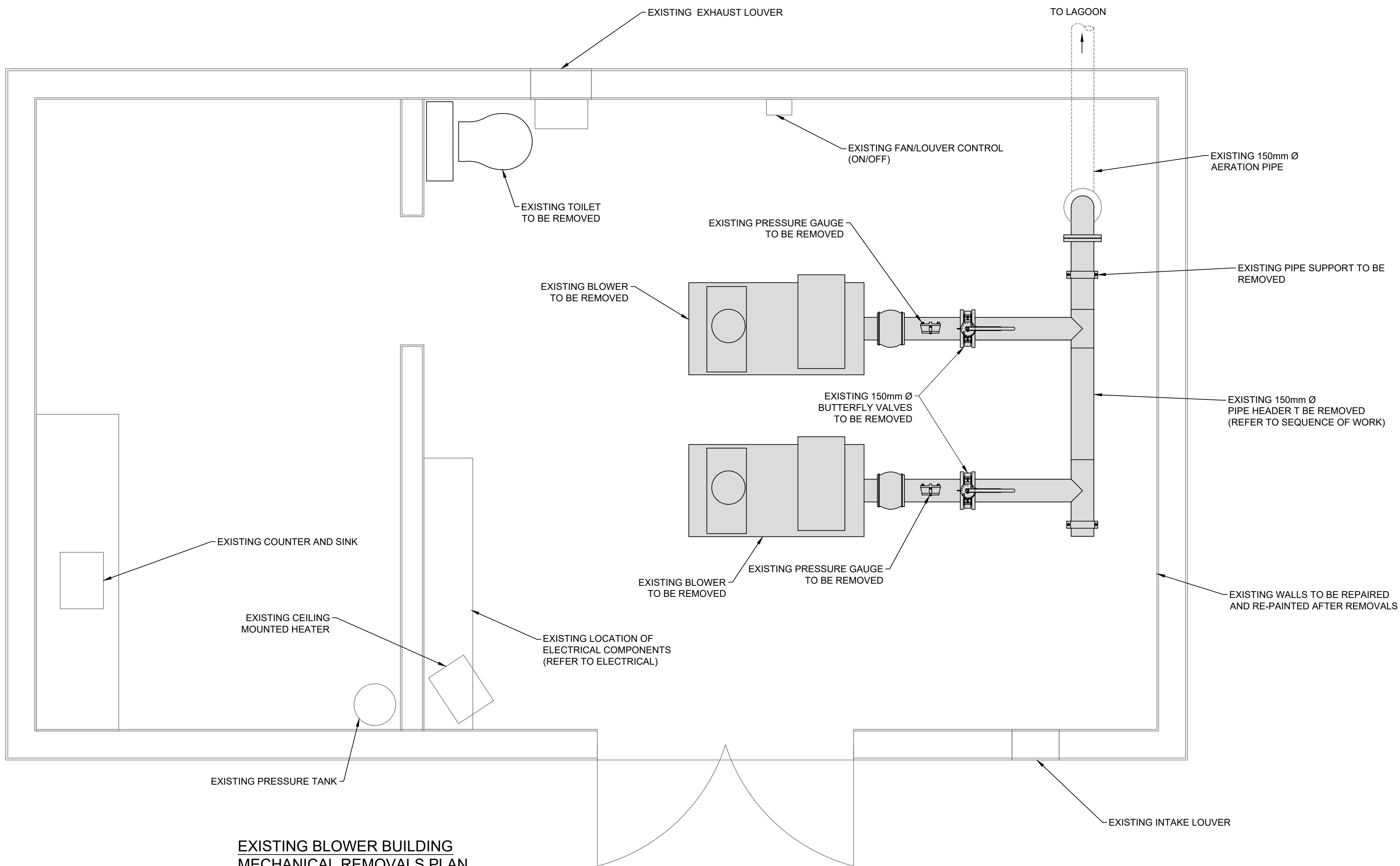
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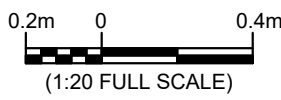
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EXISTING BLOWER BUILDING  
MECHANICAL REMOVALS PLAN



NOTES

1. REFER TO ARCHITECTURAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL DETAILS IN REGARDS TO THE APPLICATION OF NEW SIDING INSTALLATION.

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PROJECT TITLE

UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT  
FACILITY CLIENT PROJECT NO.  
F-23-NQ-01

NEQOTKUK N.B.

DRAWING TITLE

EXISTING BLOWER BUILDING,  
REMOVALS PLAN

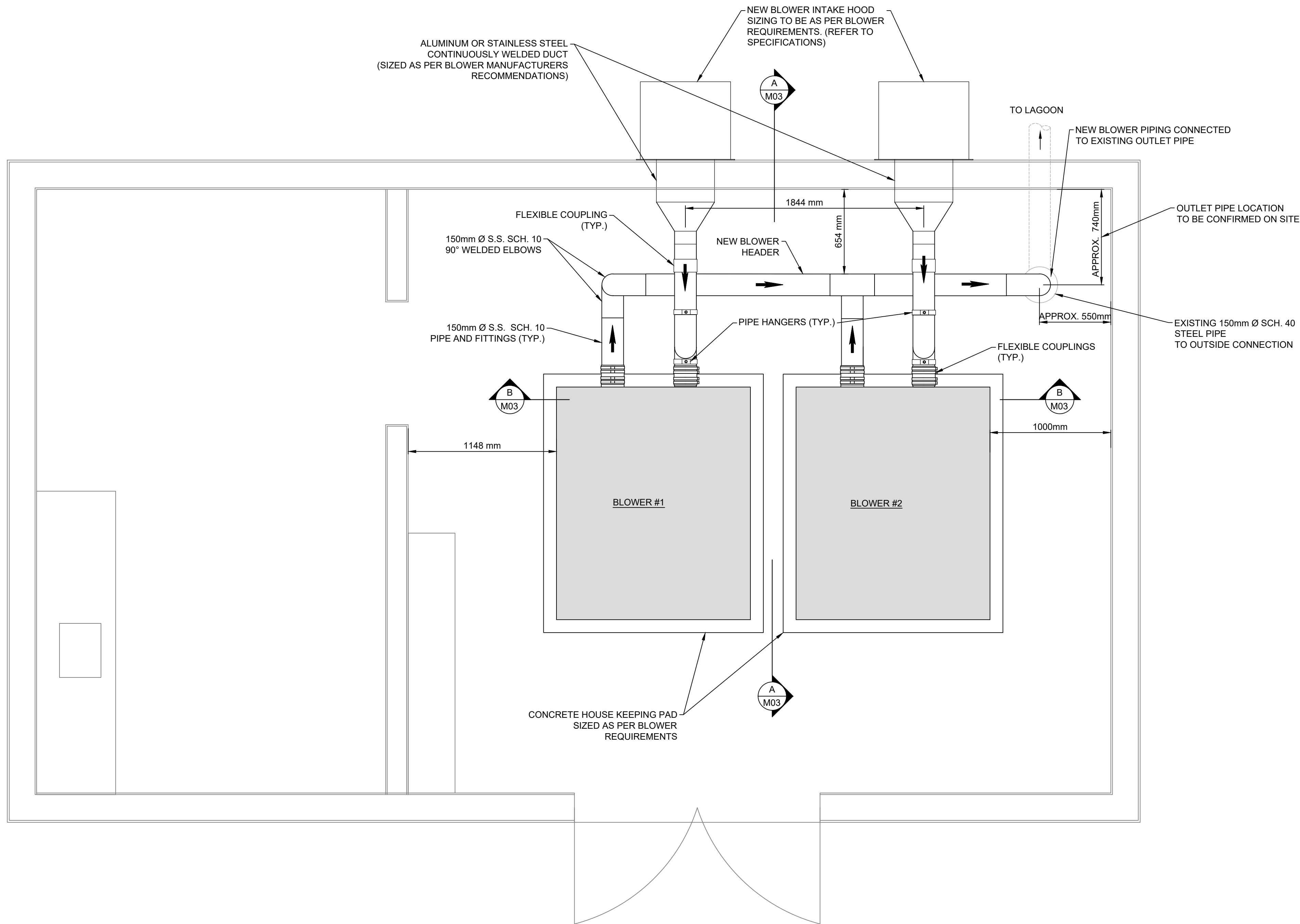
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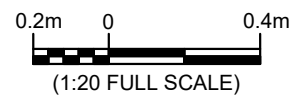
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EXISTING BLOWER BUILDING  
NEW BLOWER INSTALLATION PLAN



NOTES

1. CONNECTION TO BLOWER INTAKE HOODS TO BE MADE WITH FLEXIBLE RUBBER COUPLINGS APPROVED BY BLOWER MANUFACTURER.
2. INSTALL INTAKE HOOD IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. CONTRACTOR TO SUPPLY ALL FASTENERS, ANCHORS FOR THE INSTALLATION OF THE BLOWERS.
4. AIR INTAKE AND BLOWER DISCHARGE PIPING TO BE STAINLESS STEEL SCH. 10 STEEL, EXCEPT WHERE OTHERWISE NOTED.
5. PIPE SUPPORTS TO BE ANCHORED TO THE FLOOR USING 12.7mm Ø CHEMICAL ANCHORS, 100mm LONG.
6. FINAL BLOWER CONCRETE PAD DIMENSIONS TO BE DETERMINED FOLLOWING SHOP DRAWING REVIEW BY THE CONTRACTOR.
7. CONTRACTOR TO PROVIDE FITTINGS AS REQUIRED, INCIDENTAL TO THE WORK FOR THE CONNECTION OF BLOWER INTAKE AND DISCHARGE PIPING.
8. PIPING DIMENSIONS AND DIAMETER TO BE CONSIDERED MINIMAL AND BE CONFIRMED DURING SHOP DRAWING REVIEW.
9. TRANSITION FROM SCH. 10 S.S. PIPING TO SCH. 40 STEEL PIPING TO BE DONE INSIDE BUILDING AT FLANGE CONNECTION.
10. REFER TO STRUCTURAL FOR WALL PENETRATION OF NEW INTAKE HOODS.
11. EXACT WALL OPENINGS TO BE CONFIRMED FOLLOWING BLOWER AND INTAKE HOOD SHOP DRAWING APPROVAL.
12. LOCATION OF PIPE HANGERS ARE TO BE INSTALLED SO THERE IS NO INTERFERENCE WITH EXISTING LIGHTING MOUNTED ON THE CEILING. REFER TO STRUCTURAL FOR ANCHORING OF PIPE HANGERS.

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NO.	DATE	REVISIONS	BY	APPR.



PROJECT TITLE

UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT  
FACILITY CLIENT PROJECT  
NO. F-23-NQ-01

NEQOTKUK N.B.

DRAWING TITLE

EXISTING BLOWER BUILDING,  
NEW BLOWER INSTALLATION  
PLAN

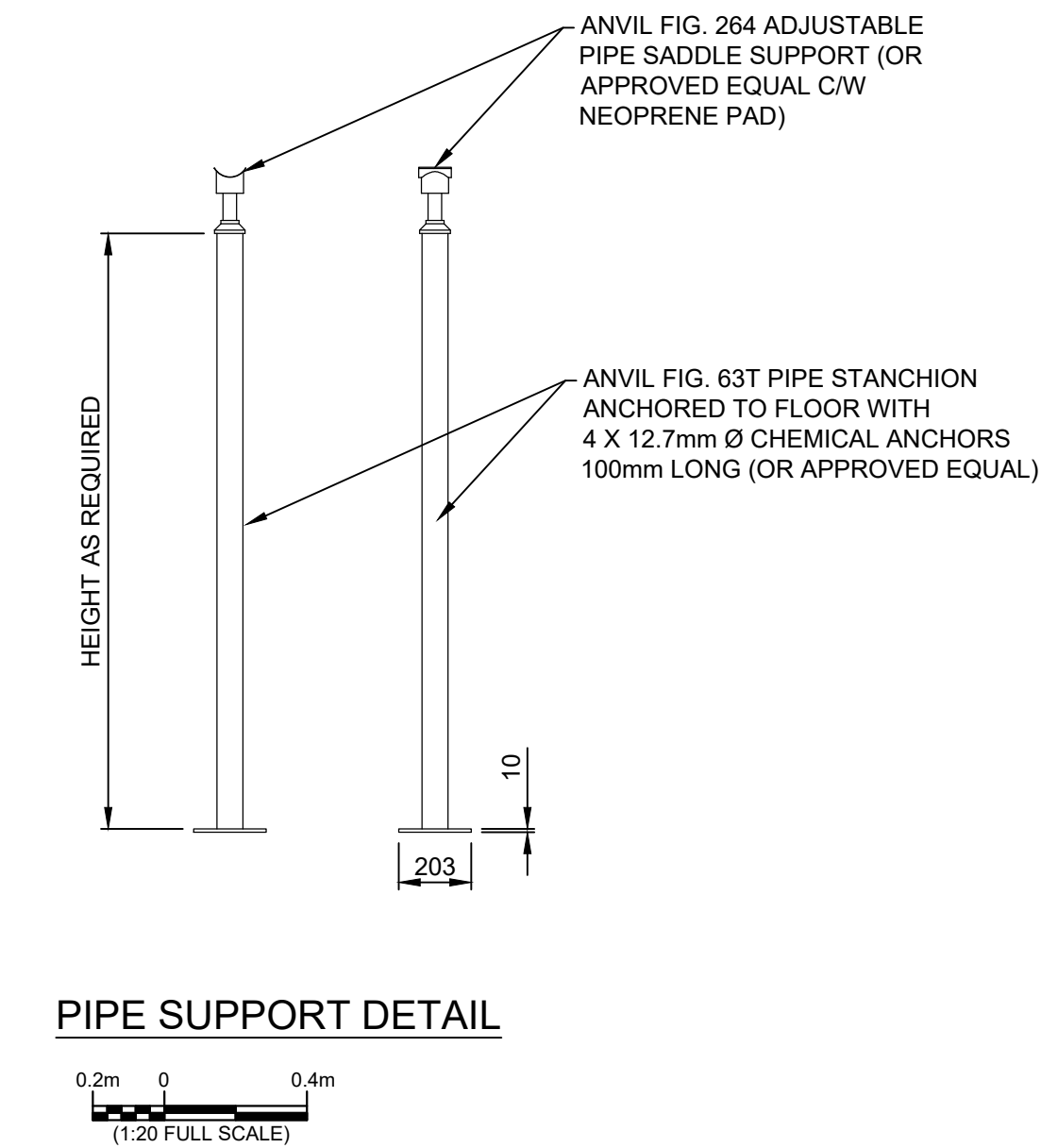
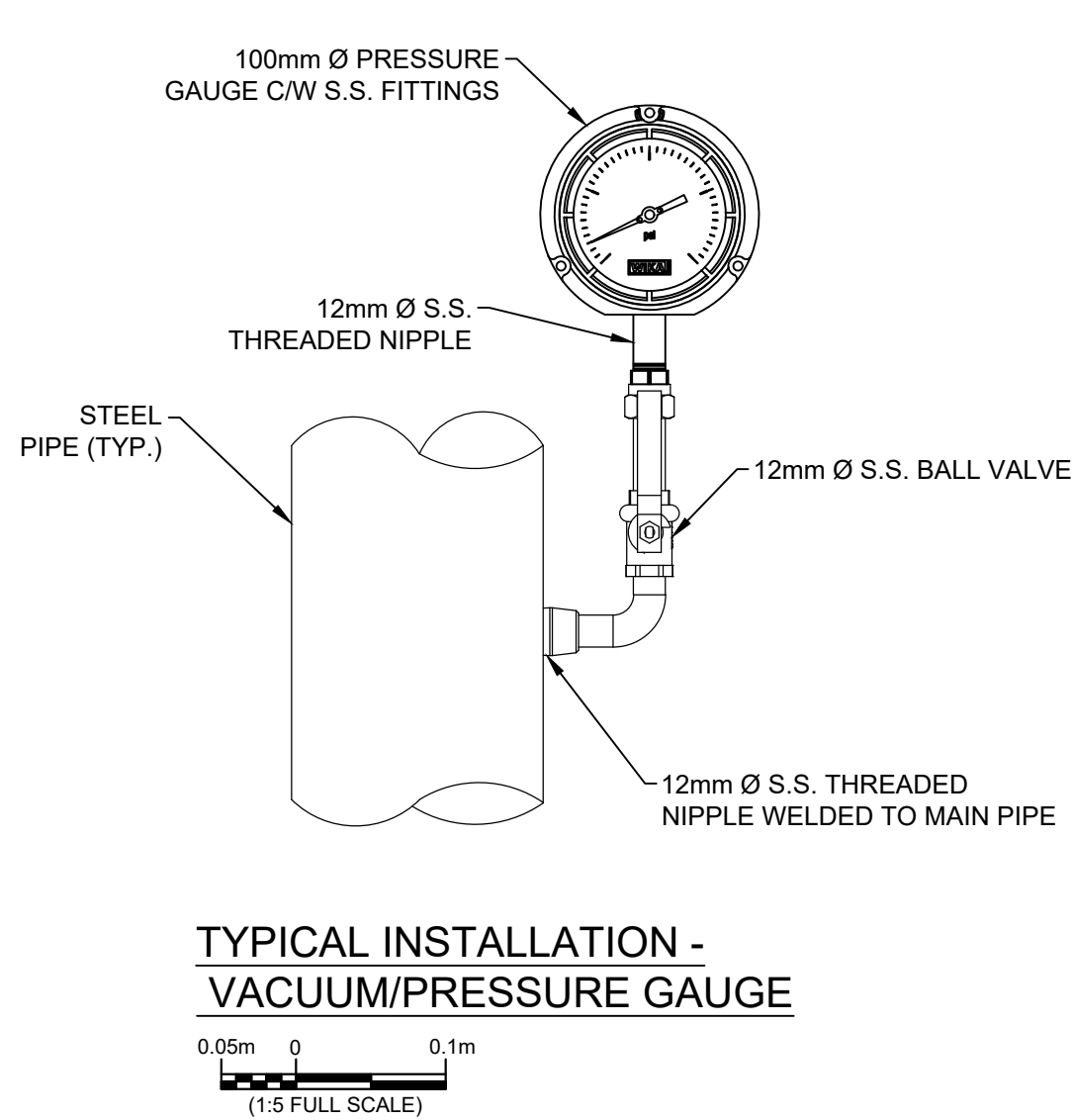
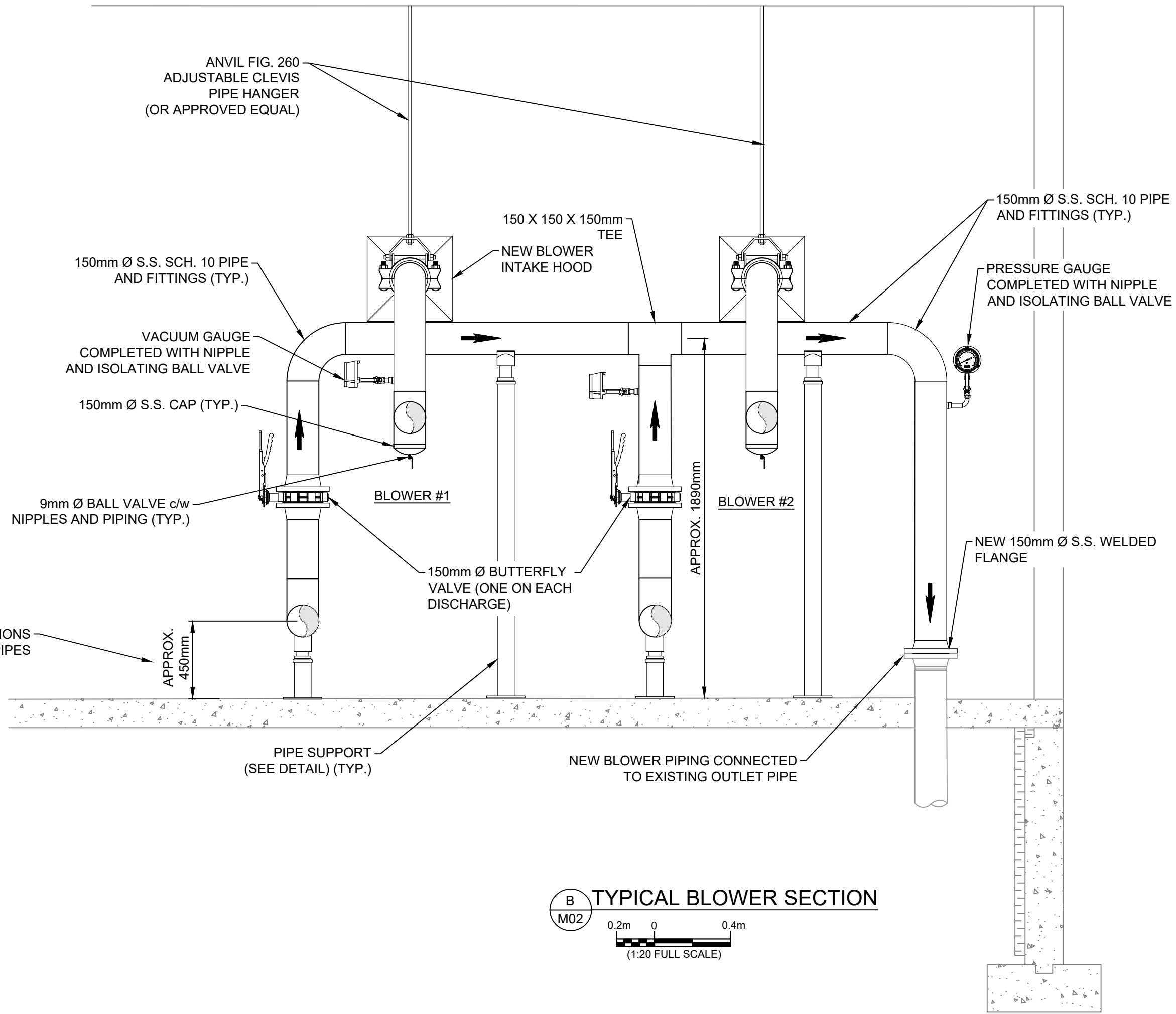
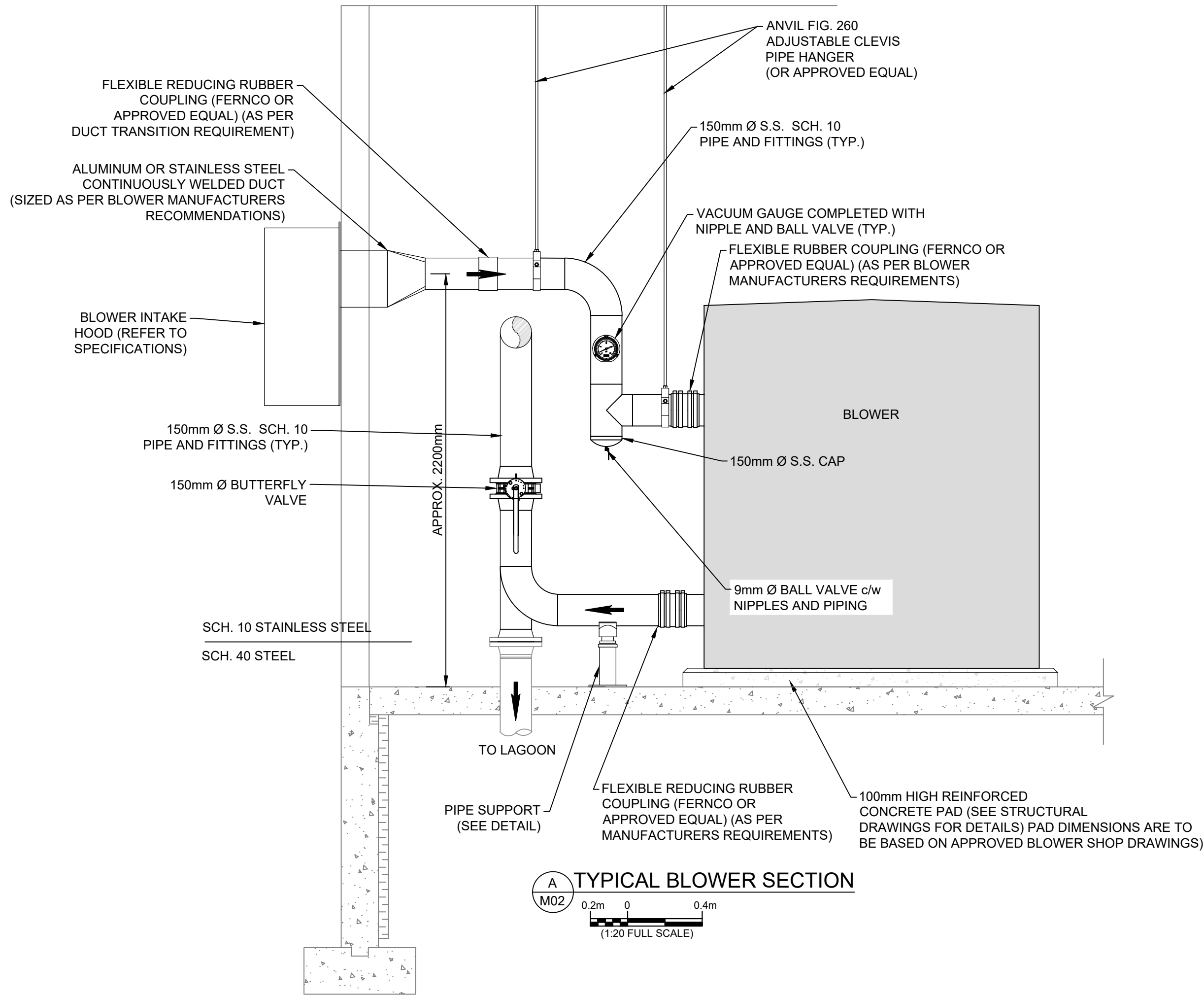
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- NOTES
1. CONNECTION TO BLOWER INTAKE HOODS TO BE MADE WITH FLEXIBLE RUBBER COUPLINGS APPROVED BY BLOWER MANUFACTURER.
  2. INSTALL INTAKE HOOD IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
  3. CONTRACTOR TO SUPPLY ALL FASTENERS, ANCHORS FOR THE INSTALLATION OF THE BLOWERS.
  4. AIR INTAKE AND BLOWER DISCHARGE PIPING TO BE STAINLESS STEEL SCH. 10 STEEL, EXCEPT WHERE OTHERWISE NOTED.
  5. PIPE SUPPORTS TO BE ANCHORED TO THE FLOOR USING 12.7mm Ø CHEMICAL ANCHORS, 100mm LONG.
  6. FINAL BLOWER CONCRETE PAD DIMENSIONS TO BE DETERMINED FOLLOWING SHOP DRAWING REVIEW BY THE CONTRACTOR.
  7. CONTRACTOR TO PROVIDE FITTINGS AS REQUIRED, INCIDENTAL TO THE WORK FOR THE CONNECTION OF BLOWER INTAKE AND DISCHARGE PIPING.
  8. PIPING DIMENSIONS AND DIAMETER TO BE CONSIDERED MINIMAL AND BE CONFIRMED DURING SHOP DRAWING REVIEW.
  9. TRANSITION FROM SCH. 10 S.S. PIPING TO SCH. 40 STEEL PIPING TO BE DONE INSIDE BUILDING AT FLANGE CONNECTION.
  10. REFER TO STRUCTURAL FOR WALL PENETRATION OF NEW INTAKE HOODS.
  11. EXACT WALL OPENINGS TO BE CONFIRMED FOLLOWING BLOWER AND INTAKE HOOD SHOP DRAWING APPROVAL.
  12. LOCATION OF PIPE HANGERS ARE TO BE INSTALLED SO THERE IS NO INTERFERENCE WITH EXISTING LIGHTING MOUNTED ON THE CEILING. REFER TO STRUCTURAL FOR ANCHORING OF PIPE HANGERS.

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NO.	DATE	REVISIONS	BY	APPR.



PROJECT TITLE

UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01

NEQOTKUK N.B.

DRAWING TITLE

EXISTING BLOWER BUILDING, MECHANICAL SECTIONS AND DETAILS

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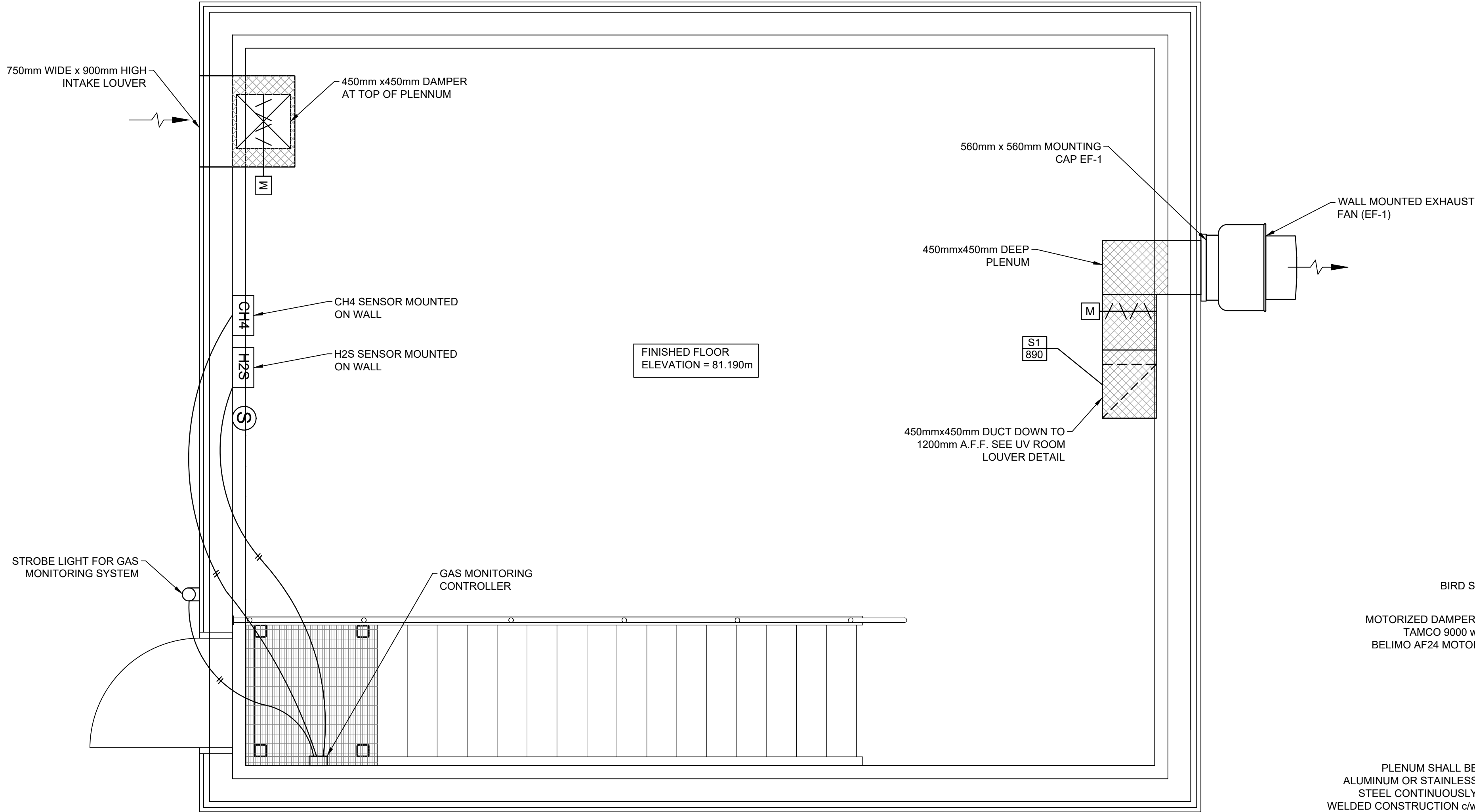
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M03



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#### LEGEND

	RIGID DUCTWORK
	DIFFUSER/GRILLE
	THERMAL INSULATION
	SENSOR BY ELECTRICAL
	EXHAUST FAN
	MOTORIZED DAMPER
	METHANE SENSOR (INSTALL NEAR CEILING)
	HYDROGEN SULPHIDE SENSOR (INSTALL 1200-1800mm ABOVE FLOOR)
	CONTROL WIRING

- NOTES
- EXHAUST FAN OPENING DIMENSIONS TO BE CONFIRMED FOLLOWING SHOP DRAWING APPROVAL.
  - DAMPERS SHALL BE INSULATED ALUMINUM FRAME AND BLADES. LOW LEAKAGE TYPE. TAMCO 9000 OPPOSED BLADE OR EQUAL FOR LOUVERS AND ASSOCIATED DUCTWORK.
  - ACTUATORS SHALL BE BELIMO AF24 OR EQUAL, SUPPLIED BY VENTILATION CONTRACTOR AND INSTALLED BY CONTROLS CONTRACTOR.

0.0 APR 10/25 ISSUED FOR TENDER DWD SS

NO. DATE REVISIONS BY APPR.



PROJECT TITLE

UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT  
FACILITY CLIENT PROJECT NO.  
F-23-NQ-01

NEQOTKUK N.B.

DRAWING TITLE

NEW UV BUILDING, VENTILATION  
PLAN, SCHEDULES AND DETAILS

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	Sheet	04 of 06

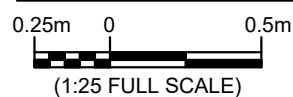
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Drawing No.  
M04

DIFFUSER GRILLE SCHEDULE						
NO.	TYPE	SERVICE	L/S RANGE	NECK SIZE	THROW m	PATTERN
ST1	GRID FACE SURFACE MOUNT	SUPPLY	890	450x 450	-	4

APPROVED EQUAL: NAILOR INDUSTRIES

#### VENTILATION FLOOR PLAN



FAN SCHEDULE									
NO.	MANUFACTURER	APPLICATION	L/S	SP (Pa)	RPM	ELECTRIC			REMARKS
						W	V	PH	
EF-1	GREENHECK CUBE-160	UV ROOM EXHAUST	890	1270	856	248	115	1	C/W BS, DS, VI, RC MD AND DISCONNECT

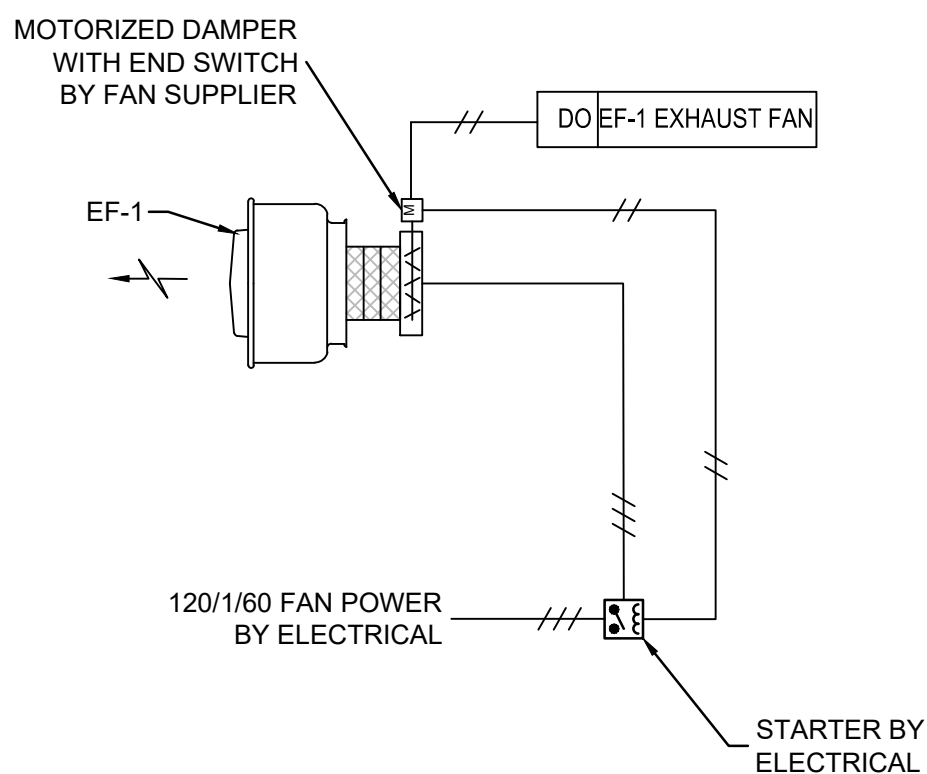
BS - BIRD SCREEN  
DS - FACTORY WIRED DISCONNECT  
APPROVED EQUAL: S&P FANS

MD - MOTORIZED DAMPER  
RC - ROOF CURB

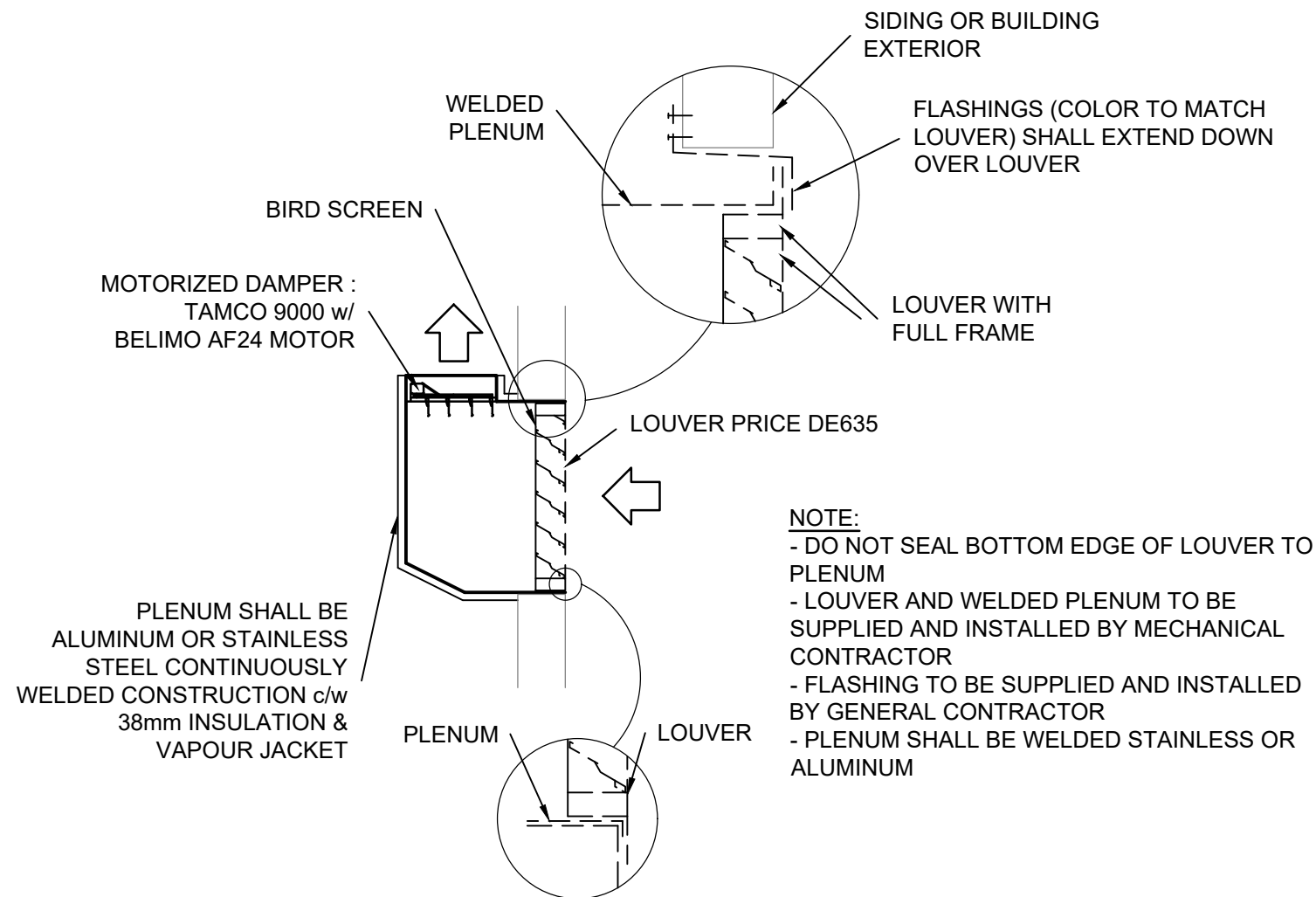
VI - VIBRATION ISOLATORS  
WC - WALL CAP C/W FLASHING

#### CONTROL (NORMAL MODE)

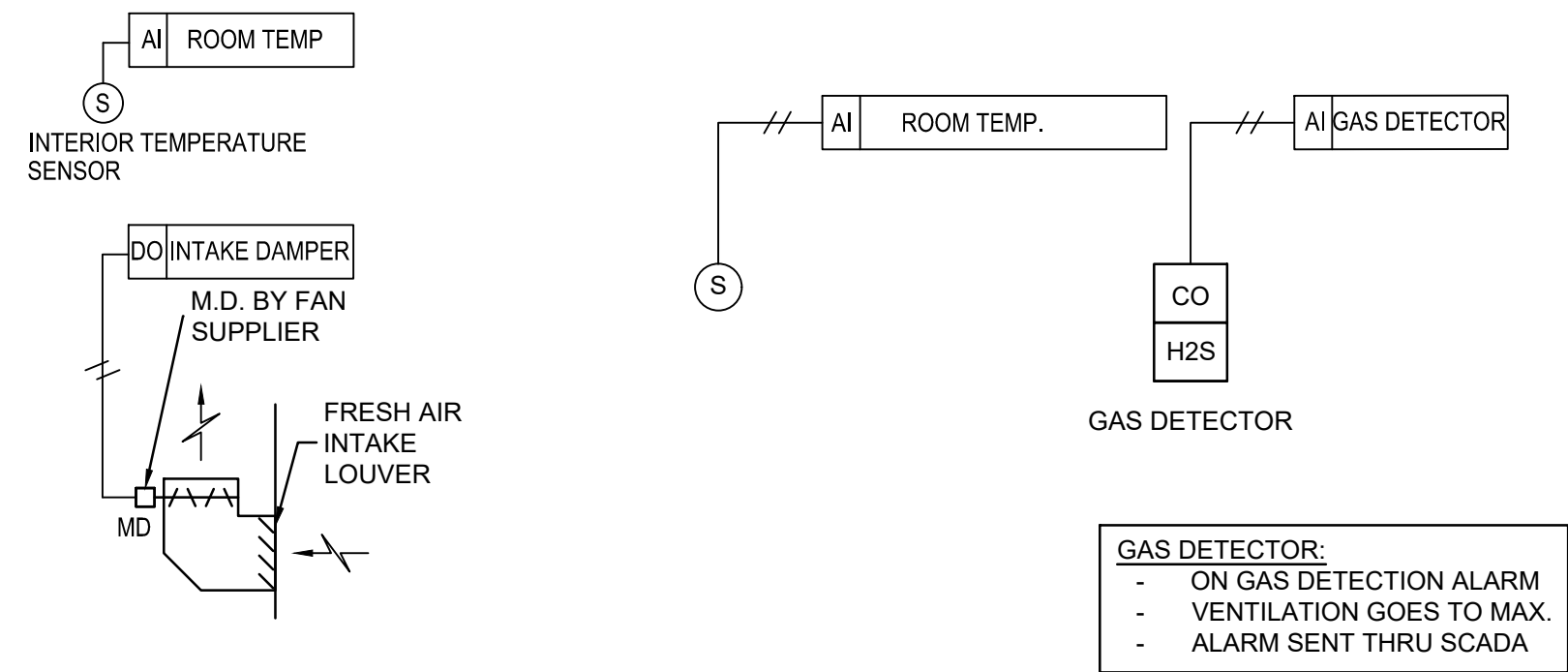
- VENTILATION SHALL BE CONTROLLED BY STATION PLC.
- DIGITAL TEMPERATURE SENSOR SHALL HAVE MANUAL OVERRIDE BUTTON.
- @ > 25° C START EF-1 (EDITABLE BY OWNER).
- WILL STOP WHEN TEMPERATURE DROPS 3° C BELOW START POINT.
- HIGH TEMPERATURE ALARM @ 35° C (EDITABLE BY OWNER)
- LOW TEMPERATURE ALARM @ 10° C (EDITABLE BY OWNER)
- VENTILATION TO OPERATE FOR 15 MIN. AT 1:00PM EACH DAY (EDITABLE BY OWNER).
- GAS DETECTION SIGNAL FROM GAS CONTROLLER WILL SEND ALARM TO PLC. PLC TO ACTIVATE VENTILATION.



EF-1 VENTILATION CONTROLS  
N.T.S.



UV ROOM - INTAKE WALL LOUVER DETAIL  
N.T.S.

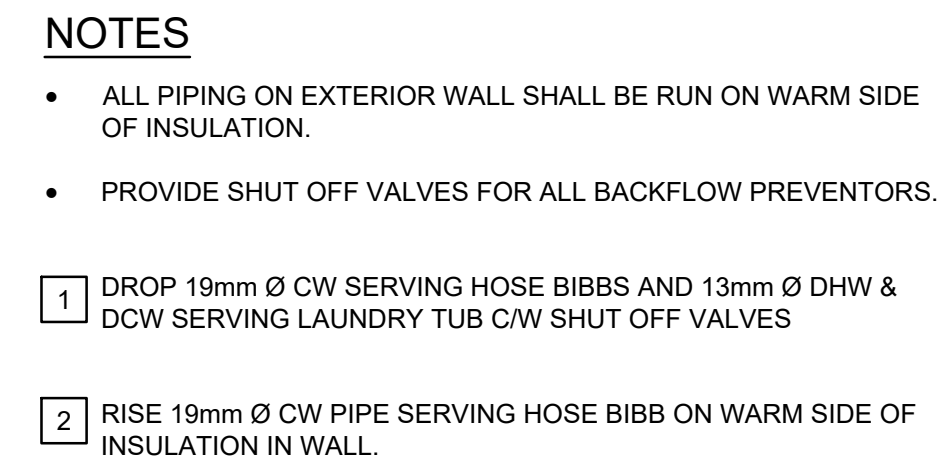


NOTES:  
ALL 120 VOLT AND 24 VOLTS WIRING BY ELECTRICAL CONTRACTOR.

DAMPERS TO BE ALUMINUM FRAME, AND ALUMINUM BLADE. LOW LEAKAGE INSULATED TYPE. SUPPLIED AND INSTALLED BY VENTILATION CONTRACTOR

QUANTITIES OF DAMPERS AND ACTUATORS SHALL BE VERIFIED ON SITE. ACTUATORS BY VENTILATION CONTRACTOR. CONTRACTOR SHALL PROVIDE ADDITIONAL COMPONENTS AS REQUIRED TO MAKE SYSTEM COMPLETE AND OPERATIONAL.





- |       |   |
|-------|---|
| —TW—  | TEMPERED WATER                            |
| —     | NEW UNDERSLAB COLD WATER                  |
| — —   | NEW COLD WATER                            |
| — — — | NEW HOT WATER                             |
| —V—V— | NEW VENT                                  |
| —V—V— | VENT BELOW SLAB                           |
| —     | NEW SANITARY                              |
| TP TP | NEW TRAP PRIMER                           |
| —FOS— | FUEL OIL SUPPLY                           |
| —FOR— | FUEL OIL RETURN                           |
| ⊙ FD  | FLOOR DRAIN                               |
| ⊙ CO  | FLOOR CLEAN OUT                           |
| —H CO | WALL CLEAN OUT                            |
| ⊙ HD  | HUB DRAIN                                 |
| —HD   | PIPE DOWN                                 |
| —HO   | PIPE UP                                   |
| ⊙     | ANTI-SIPHON VALVE                         |
| ⊙ WHA | WATER HAMMER ARRESTORS                    |
| ⊙     | BALL VALVE                                |
| ⊙ PR  | PRESSURE RELIEF VALVE                     |
| ↗     | CHECK VALVE                               |
| BFP   | BACK FLOW PREVENTOR<br>(REDUCED PRESSURE) |
| Y     | FUNNEL                                    |
| ⊙     | UNION                                     |
| ⊙     | REDUCER                                   |
| ⊙ HB  | HOSE BIBB                                 |
| ⊙     | STRAINER                                  |
| ⊙     | FIRE EXTINGUISHER                         |
| MV    | MIXING VALVE                              |
| ⊙     | PIPE DOWN                                 |
| ⊙     | RUNNING TRAP                              |
| BWV   | BACK WATER VALVE                          |

100mm CLEANOUT

100mm

INVERT : 80.300m

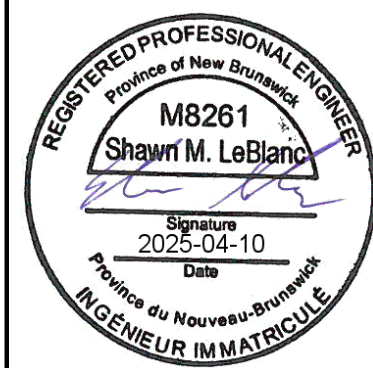
CONTRACTOR TO CONFIRM WITH CIVIL

100mm Ø TO CHAMBER

NOTE: ALL STOPS SHALL BE BY ONE MANUFACTURER.  
ALL SUPPLIES SHALL BE BY ONE MANUFACTURER



1. PRIOR TO INSTALLING SANITARY PLUMBING, CONTRACTOR TO CONFIRM INVERT ELEVATION AT CONNECTION OUTSIDE OF BUILDING



UPGRADE OF NEQOTKUK  
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F-23-NQ-01

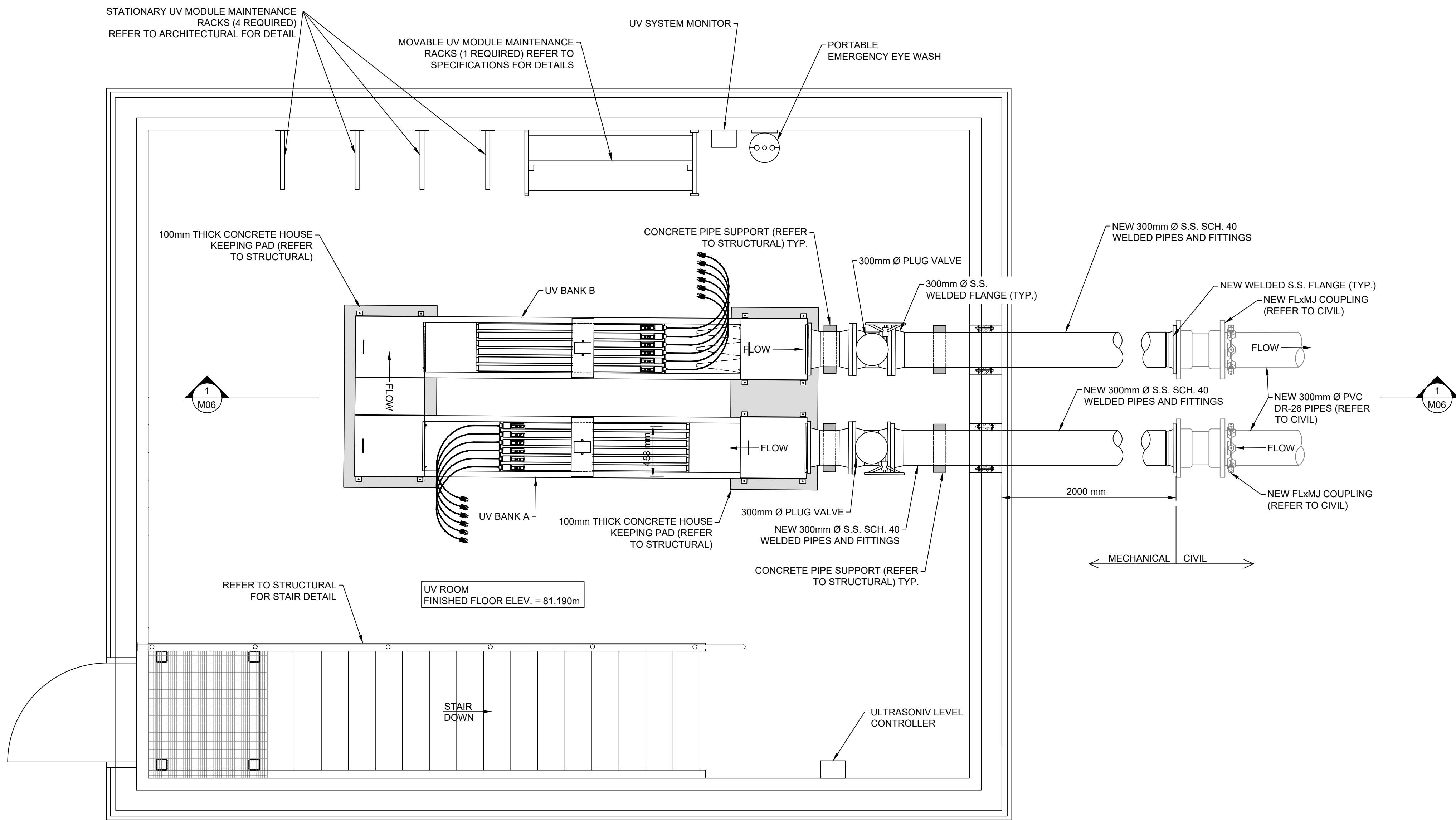
NEW UV BUILDING,  
DOMESTIC WATER,  
PLUMBING PLAN AND  
SCHEDULES AND DETAILS

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M05

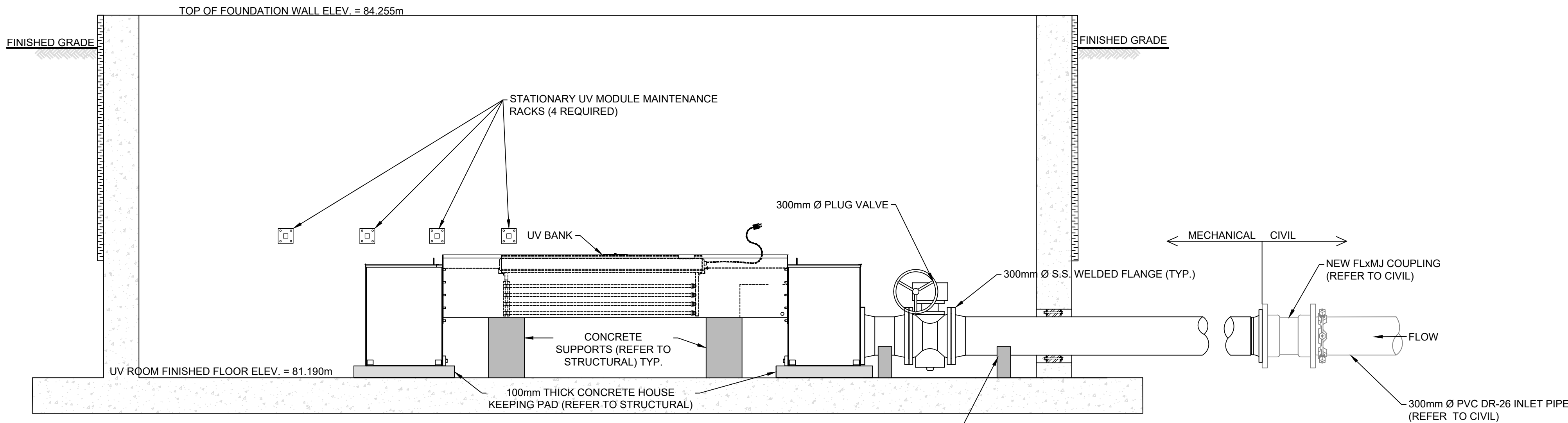


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NEW UV BUILDING FLOOR PLAN

0.25m 0 0.5m  
(1:25 FULL SCALE)

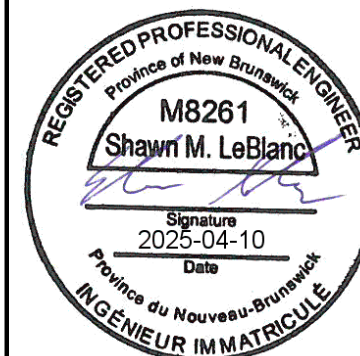


UV BUILDING CROSS SECTION

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NOTES

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NO.	DATE	REVISIONS	BY	APPR.



PROJECT TITLE

UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT  
FACILITY CLIENT PROJECT NO.  
F-23-NQ-01

NEQOTKUK N.B.

DRAWING TITLE

NEW UV BUILDING, FLOOR  
PLAN AND SECTION

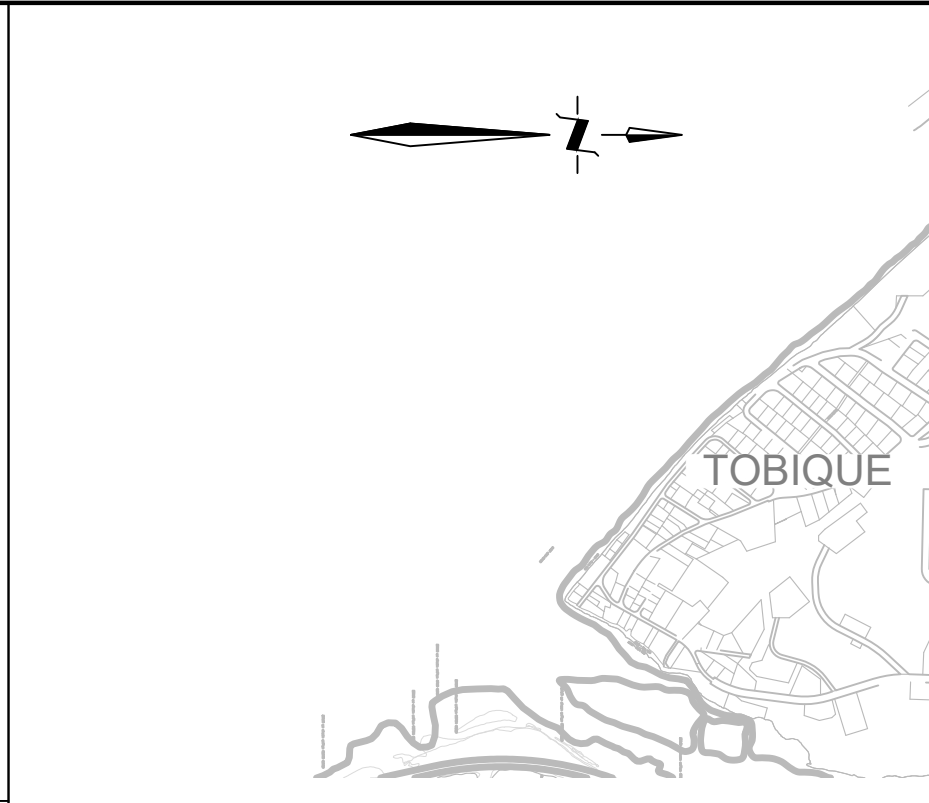
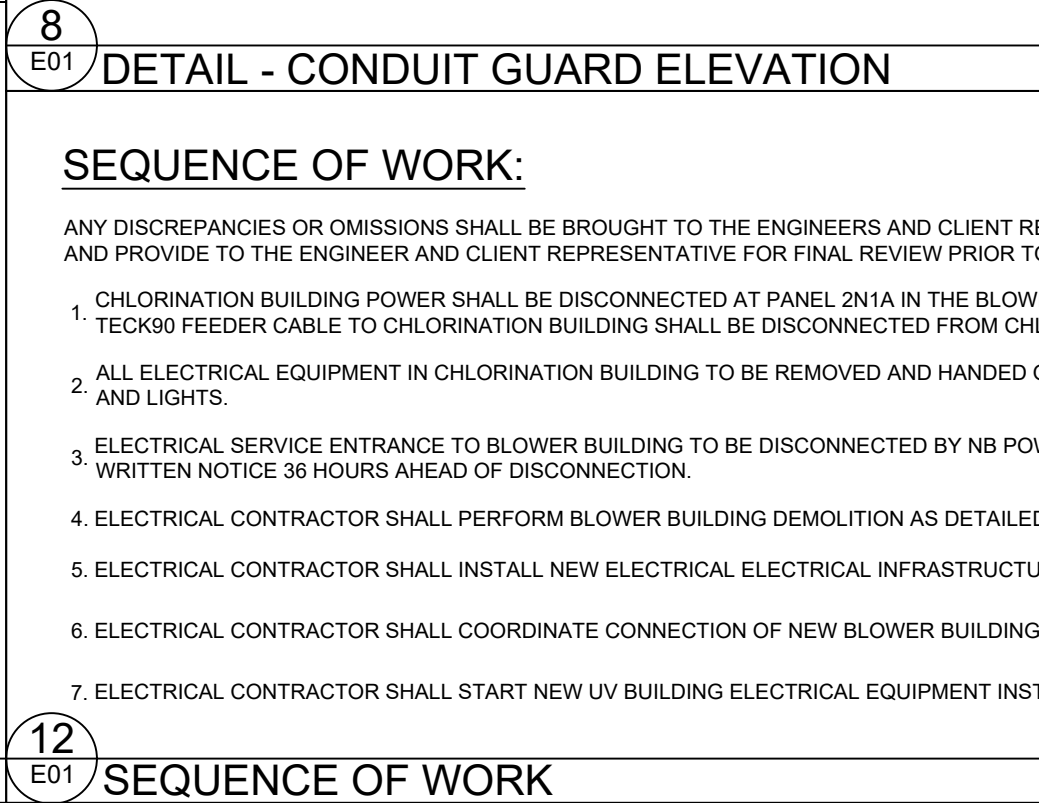
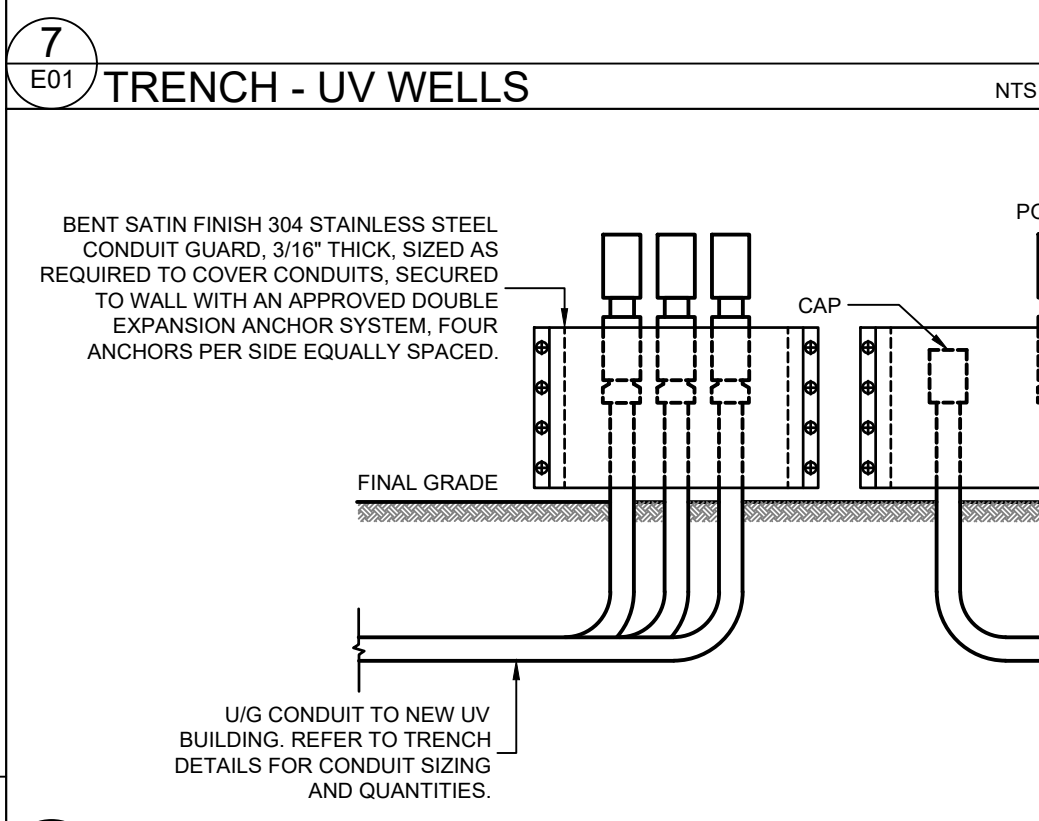
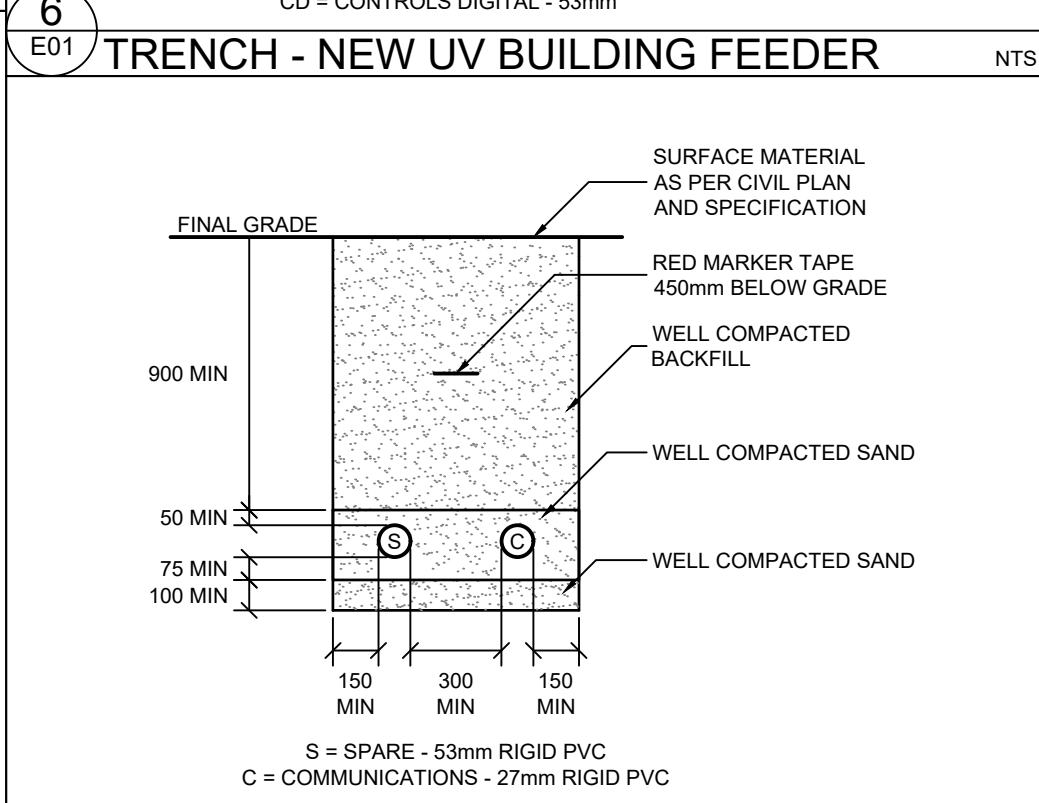
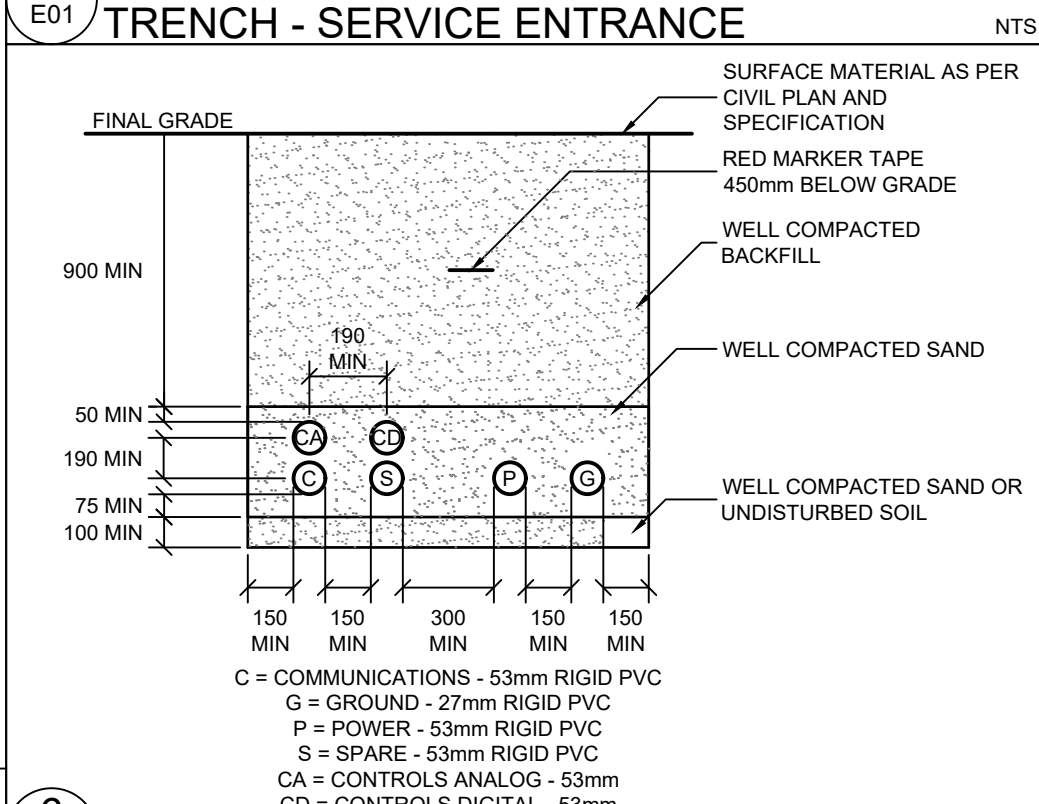
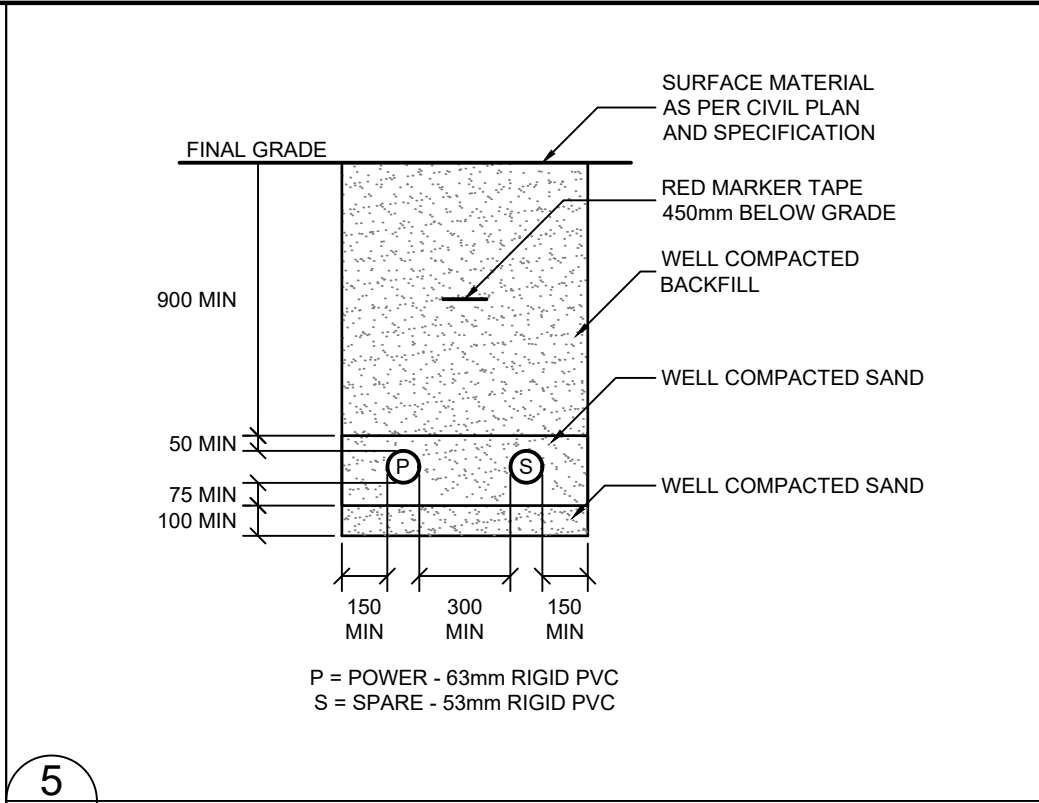
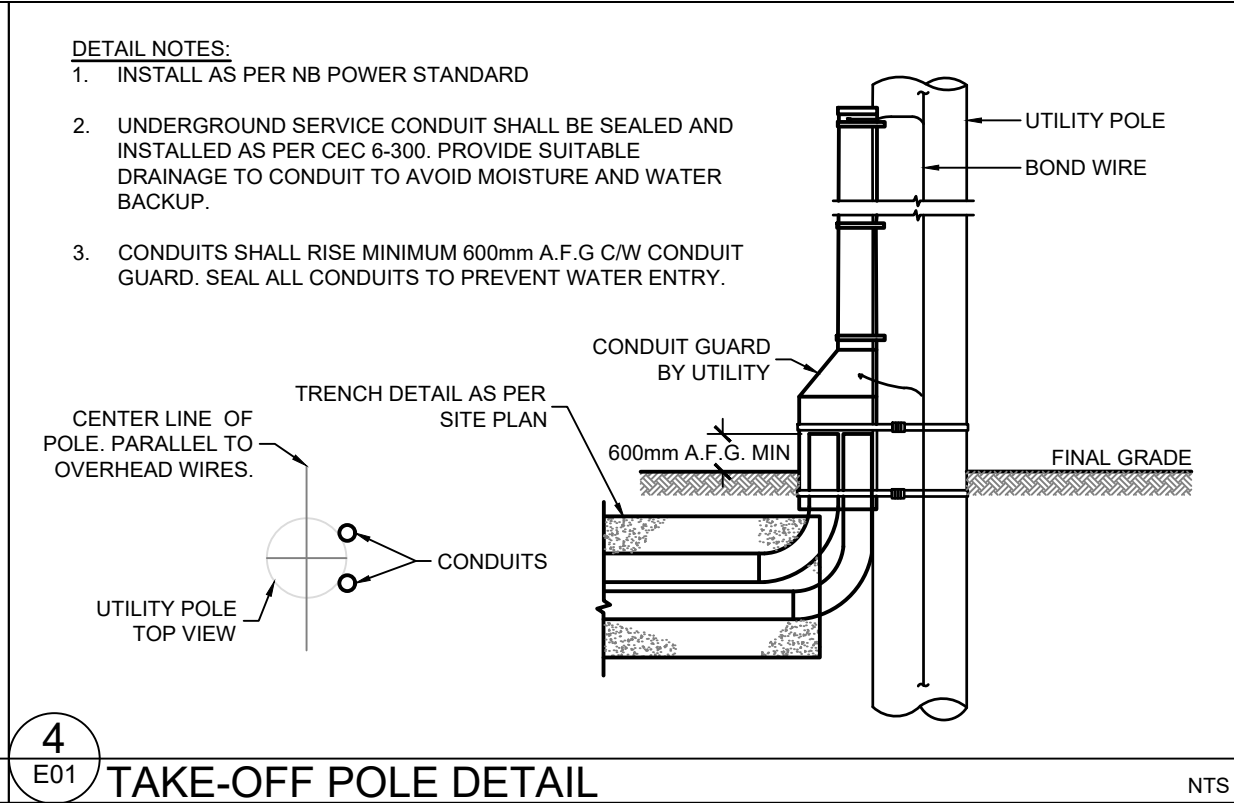
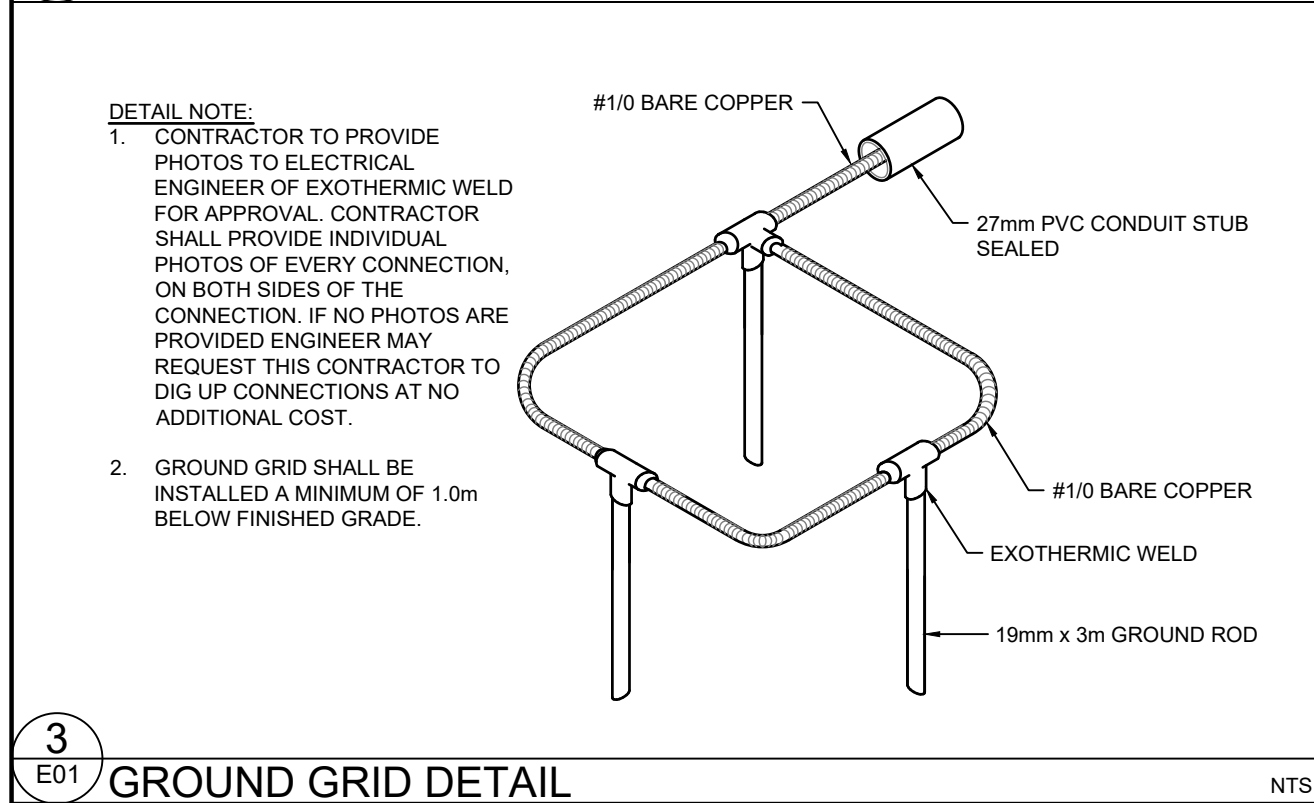
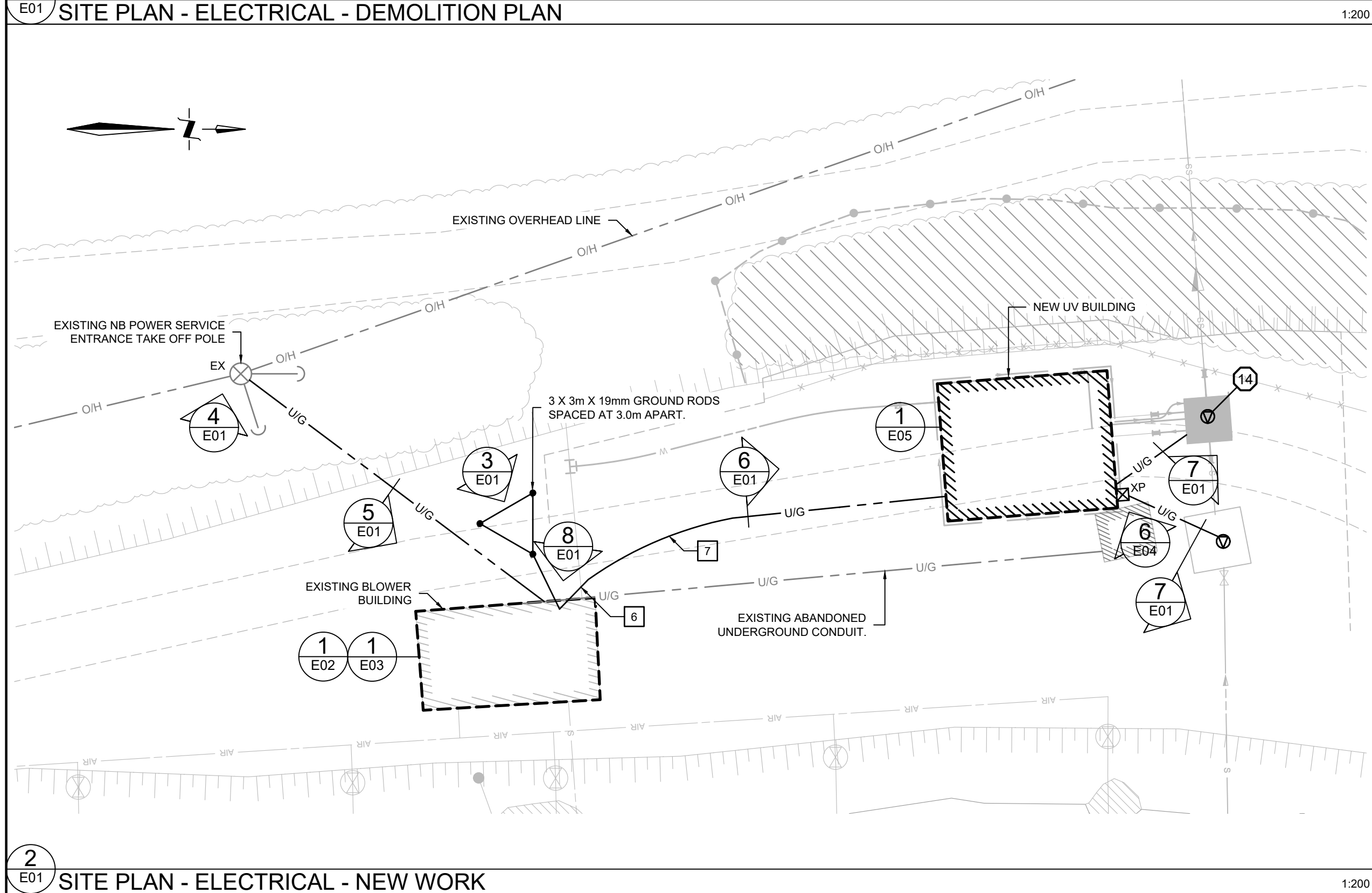
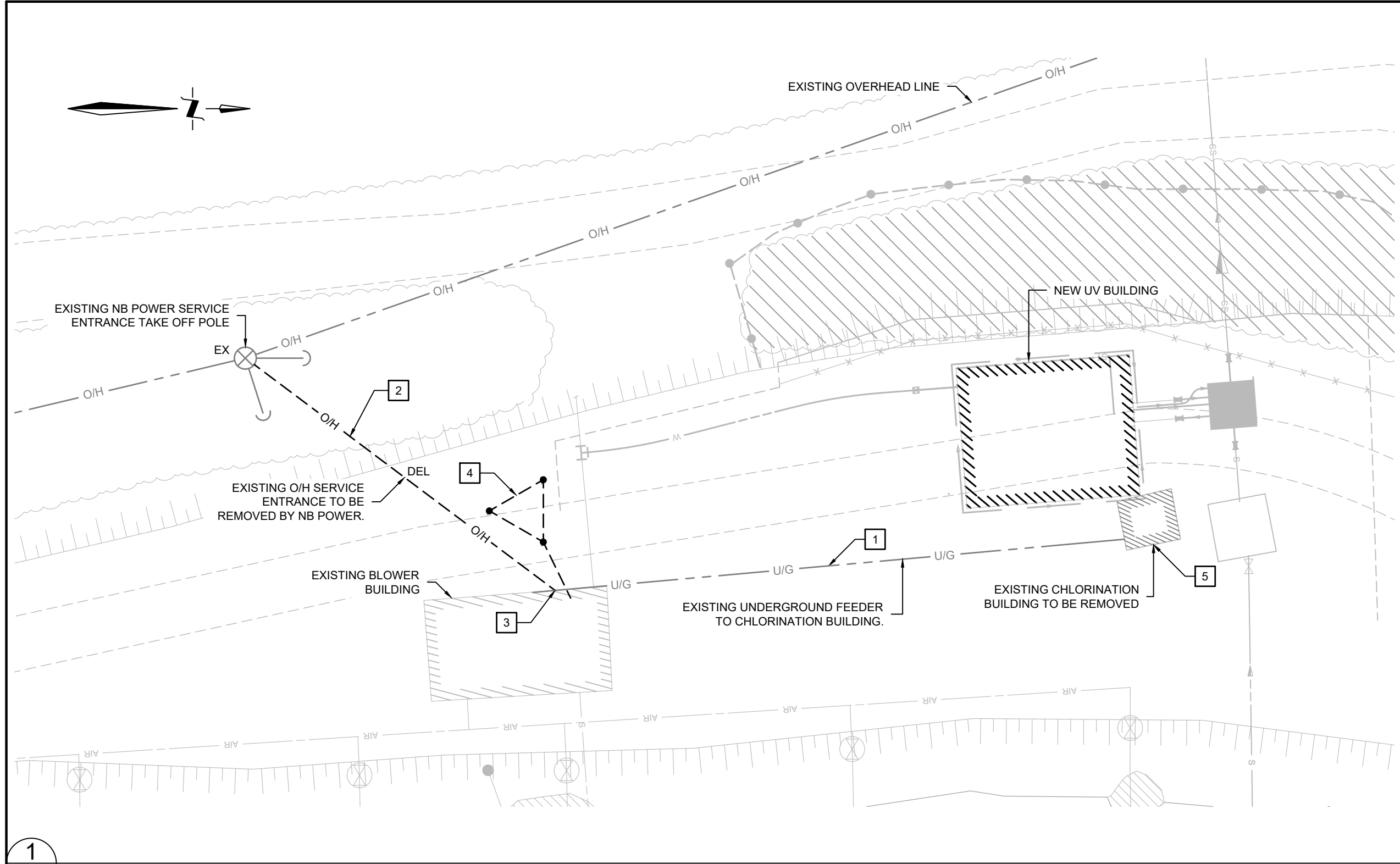
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2308072.001 M06-M07.DWG

Drawing No.  
M06



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**GENERAL NOTES:**

CONTRACTOR SHALL LOCATE ALL EXISTING SERVICES IN AREA WHERE TRENCHING IS PROPOSED (POWER, COMMUNICATIONS, NATURAL GAS PIPING, DRAINAGE, WATER ENTRANCE, SPRINKLER ENTRANCE, ETC.). CONTRACTOR SHALL CARRY ALL COSTS ASSOCIATED REQUIRED TO PROVIDE SITE LOCATES AND COORDINATE WITH LOCAL UTILITIES/AUTHORITIES FOR LOCATES.

CONTRACTOR TO PROVIDE FULL SITE PHOTOS OF THE AREA OF WORK TO THE CONSULTANT. ALL SURFACES DISTURBED BY THIS WORK SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. CONFIRM GRADE OF ASPHALT AND MATCH PRIOR TO REPAIRS. HYDRO SEED SHALL BE USED FOR EXISTING LAWN LOCATIONS. NO EXTRAS WILL BE ALLOWED FOR AREAS REPAIRED OUTSIDE OF THE SCOPE OF WORK.

INDICATED ROUTING IS DIAGRAMMATIC ONLY, EXACT ROUTING MAY BE DIFFERENT THAN SHOWN. PROVIDE EXACT ROUTING ON AS-BUILT DRAWINGS AT END OF CONSTRUCTION.

CONTRACTOR SHALL REVIEW THE DRAWING PACKAGE IN ITS ENTIRETY DURING THE TENDER PROCESS. ANY ERRORS, OMISSIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE CONSULTANT DURING THE TENDERING PROCESS FOR CLARIFICATION.

**REFERENCE NOTES:**

1 APPROXIMATE LOCATION OF EXISTING FEEDER TO CHLORINATION BUILDING. FEEDER TO BE DISCONNECTED AND REMOVED AS PER SEQUENCE OF WORK DETAIL 12 ON SHEET E01. CONDUIT TO BE ABANDONED.

2 EXISTING NB POWER SERVICE ENTRANCE CABLE TO BE REMOVED. ELECTRICAL CONTRACTOR TO COORDINATE WITH NB POWER.

3 ELECTRICAL CONTRACTOR TO REMOVE SERVICE MAST AND CABLES AFTER NB POWER DISCONNECTS MAIN POWER. GENERAL CONTRACTOR TO PATCH ALL WALL AND ROOF ASSEMBLIES TO MATCH EXISTING. COORDINATE WITH ARCHITECTURAL.

4 APPROXIMATE LOCATION OF EXISTING GROUNDING RODS. CONTRACTOR TO REMOVE EXISTING GROUNDING RODS AND INSTALL NEW GROUND GRID AS SHOWN IN DETAIL 3 ON SHEET E01.

5 EXISTING CHLORINATION BUILDING TO BE DECOMMISSIONED AND DEMOLISHED AS PER SEQUENCE OF WORK DETAIL 12 ON SHEET E01. ALL ELECTRICAL EQUIPMENT TO BE REMOVED AND TURNED OVER TO OWNER FOR FIRST RIGHT OF REFUSAL.

6 CONTRACTOR TO EITHER HAND DIG OR HYDRO VACUUM WHEN EXCAVATING AROUND EXISTING UNDERGROUND INFRASTRUCTURE.

7 CONTRACTOR TO USE LONG SWEEP BEND ELBOWS TO MAINTAIN CONDUIT BENDS TO A MINIMUM.

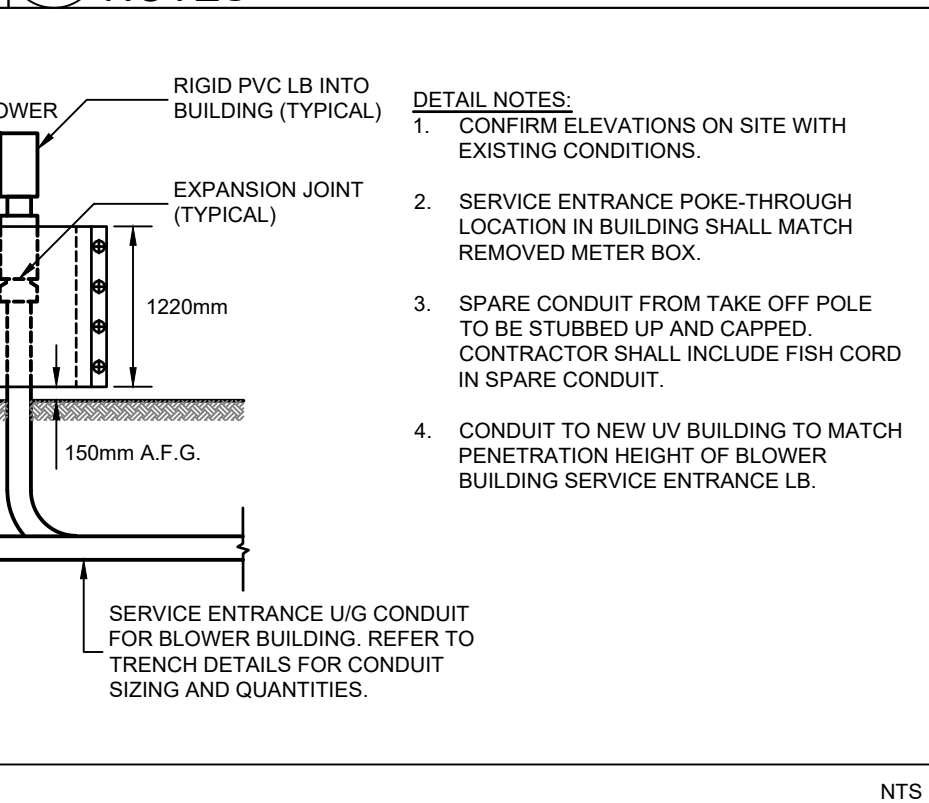
**NOTES**

1 CONFIRM ELEVATIONS ON SITE WITH EXISTING CONDITIONS.

2 SERVICE ENTRANCE POKE-THROUGH LOCATION IN BUILDING SHALL MATCH REMOVED METER BOX.

3 SPARE CONDUIT FROM TAKE OFF POLE TO BE STUBBED UP AND CAPPED. CONTRACTOR SHALL INCLUDE FISH CORD IN SPARE CONDUIT.

4 CONDUIT TO NEW UV BUILDING TO MATCH PENETRATION HEIGHT OF BLOWER BUILDING SERVICE ENTRANCE LB.



**SEQUENCE OF WORK:**

ANY DISCREPANCIES OR OMISSIONS SHALL BE BROUGHT TO THE ENGINEERS AND CLIENT REPRESENTATIVES ATTENTION BEFORE COMMENCING ANY WORK. TO REDUCE THE DOWNTIME, THE CONTRACTOR SHALL PLAN OUT THEIR OWN SEQUENCE OF WORK AND PROVIDE TO THE ENGINEER AND CLIENT REPRESENTATIVE FOR FINAL REVIEW PRIOR TO COMMENCING ANY WORK. THE BELOW SEQUENCE OF WORK SHALL BE USED AS GUIDANCE.

1 CHLORINATION BUILDING POWER SHALL BE DISCONNECTED AT PANEL 2N1A IN THE BLOWER BUILDING. TEC90 FEEDER CABLE FROM BLOWER BUILDING TO CHLORINATION BUILDING SHALL BE DISCONNECTED FROM JUNCTION BOX IN BLOWER BUILDING. TEC90 FEEDER CABLE TO CHLORINATION BUILDING SHALL BE DISCONNECTED FROM CHLORINATION BUILDING ENTRANCE AND THEN PULLED THROUGH U/G CONDUIT.

2 ALL ELECTRICAL EQUIPMENT IN CHLORINATION BUILDING TO BE REMOVED AND HANDED OVER TO OWNER FOR FIRST RIGHT OF REFUSAL. THIS INCLUDES PANELBOARD, BREAKERS, INTERIOR AND EXTERIOR RECEPTACLES, SWITCHES, BASEBOARD HEATER, AND LIGHTS.

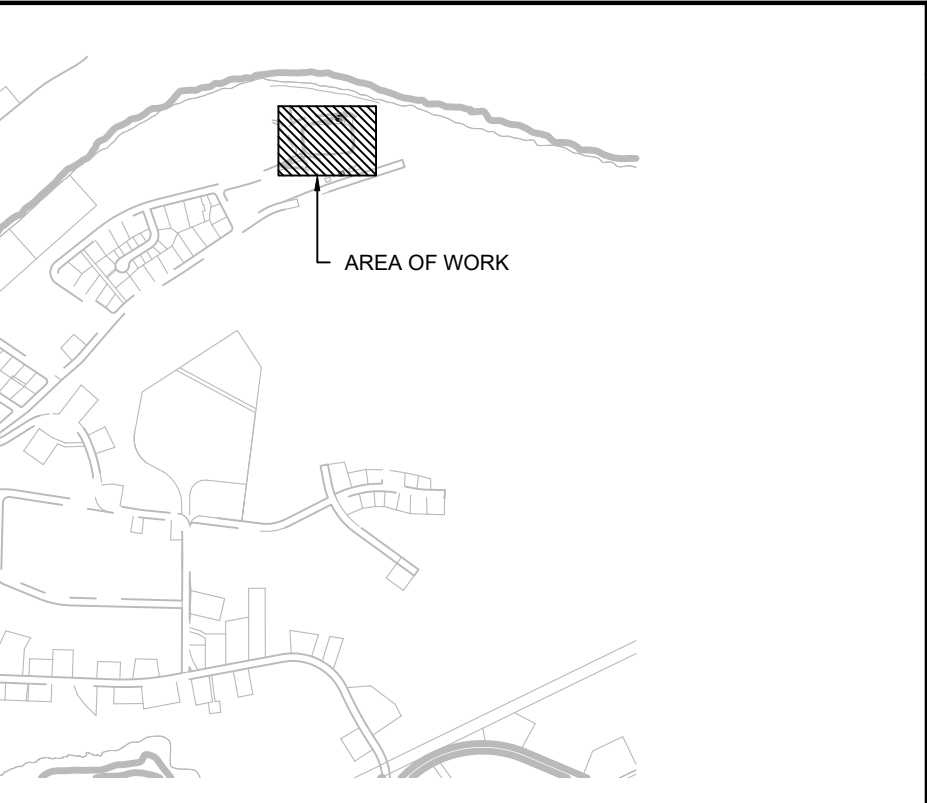
3 ELECTRICAL SERVICE ENTRANCE TO BLOWER BUILDING TO BE DISCONNECTED BY NB POWER. CONTRACTOR TO COORDINATE DISCONNECTION WITH NB POWER. CONTRACTOR SHALL ALSO COORDINATE DISCONNECTION WITH CLIENT AND PROVIDE CLIENT WRITTEN NOTICE 36 HOURS AHEAD OF DISCONNECTION.

4 ELECTRICAL CONTRACTOR SHALL PERFORM BLOWER BUILDING DEMOLITION AS DETAILED IN DETAIL 1 ON SHEET E01 AND SHEET E02.

5 ELECTRICAL CONTRACTOR SHALL INSTALL NEW ELECTRICAL ELECTRICAL INFRASTRUCTURE FOR BLOWER BUILDING AS PER DETAIL 2 ON SHEET E01 AND DETAIL 1 ON SHEET E03.

6 ELECTRICAL CONTRACTOR SHALL COORDINATE CONNECTION OF NEW BLOWER BUILDING SERVICE WITH NB POWER ONCE NEW DISTRIBUTION EQUIPMENT HAS BEEN INSTALLED.

7 ELECTRICAL CONTRACTOR SHALL START NEW UV BUILDING ELECTRICAL EQUIPMENT INSTALLATION.



**GENERAL NOTES:**

CONTRACTOR SHALL LOCATE ALL EXISTING SERVICES IN AREA WHERE TRENCHING IS PROPOSED (POWER, COMMUNICATIONS, NATURAL GAS PIPING, DRAINAGE, WATER ENTRANCE, SPRINKLER ENTRANCE, ETC.). CONTRACTOR SHALL CARRY ALL COSTS ASSOCIATED REQUIRED TO PROVIDE SITE LOCATES AND COORDINATE WITH LOCAL UTILITIES/AUTHORITIES FOR LOCATES.

CONTRACTOR TO PROVIDE FULL SITE PHOTOS OF THE AREA OF WORK TO THE CONSULTANT. ALL SURFACES DISTURBED BY THIS WORK SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. CONFIRM GRADE OF ASPHALT AND MATCH PRIOR TO REPAIRS. HYDRO SEED SHALL BE USED FOR EXISTING LAWN LOCATIONS. NO EXTRAS WILL BE ALLOWED FOR AREAS REPAIRED OUTSIDE OF THE SCOPE OF WORK.

INDICATED ROUTING IS DIAGRAMMATIC ONLY, EXACT ROUTING MAY BE DIFFERENT THAN SHOWN. PROVIDE EXACT ROUTING ON AS-BUILT DRAWINGS AT END OF CONSTRUCTION.

CONTRACTOR SHALL REVIEW THE DRAWING PACKAGE IN ITS ENTIRETY DURING THE TENDER PROCESS. ANY ERRORS, OMISSIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE CONSULTANT DURING THE TENDERING PROCESS FOR CLARIFICATION.

**REFERENCE NOTES:**

1 APPROXIMATE LOCATION OF EXISTING FEEDER TO CHLORINATION BUILDING. FEEDER TO BE DISCONNECTED AND REMOVED AS PER SEQUENCE OF WORK DETAIL 12 ON SHEET E01. CONDUIT TO BE ABANDONED.

2 EXISTING NB POWER SERVICE ENTRANCE CABLE TO BE REMOVED. ELECTRICAL CONTRACTOR TO COORDINATE WITH NB POWER.

3 ELECTRICAL CONTRACTOR TO REMOVE SERVICE MAST AND CABLES AFTER NB POWER DISCONNECTS MAIN POWER. GENERAL CONTRACTOR TO PATCH ALL WALL AND ROOF ASSEMBLIES TO MATCH EXISTING. COORDINATE WITH ARCHITECTURAL.

4 APPROXIMATE LOCATION OF EXISTING GROUNDING RODS. CONTRACTOR TO REMOVE EXISTING GROUNDING RODS AND INSTALL NEW GROUND GRID AS SHOWN IN DETAIL 3 ON SHEET E01.

5 EXISTING CHLORINATION BUILDING TO BE DECOMMISSIONED AND DEMOLISHED AS PER SEQUENCE OF WORK DETAIL 12 ON SHEET E01. ALL ELECTRICAL EQUIPMENT TO BE REMOVED AND TURNED OVER TO OWNER FOR FIRST RIGHT OF REFUSAL.

6 CONTRACTOR TO EITHER HAND DIG OR HYDRO VACUUM WHEN EXCAVATING AROUND EXISTING UNDERGROUND INFRASTRUCTURE.

7 CONTRACTOR TO USE LONG SWEEP BEND ELBOWS TO MAINTAIN CONDUIT BENDS TO A MINIMUM.

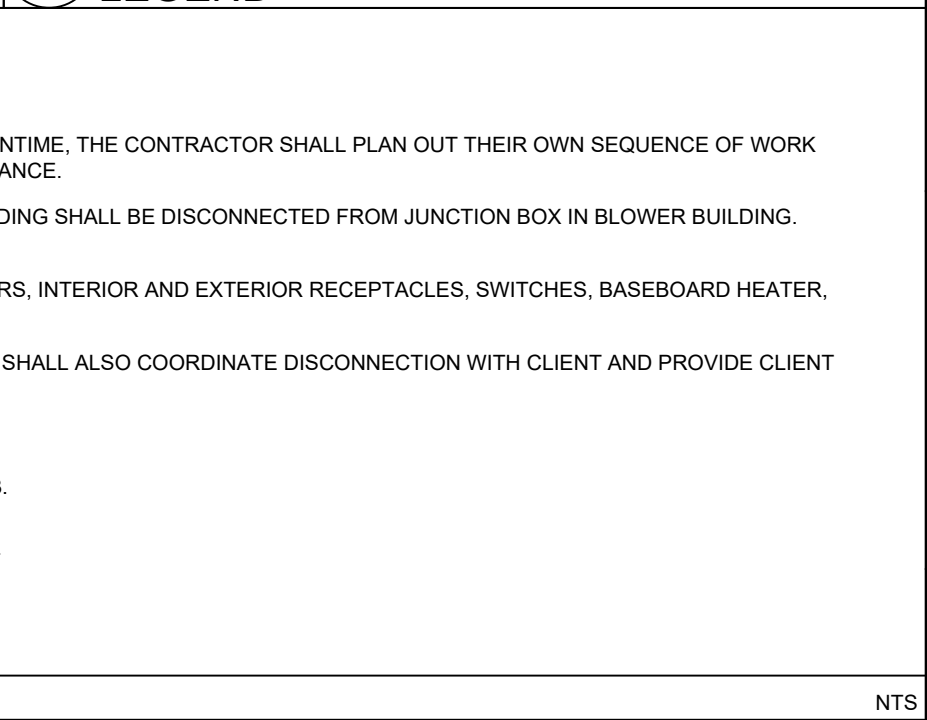
**NOTES**

1 CONFIRM ELEVATIONS ON SITE WITH EXISTING CONDITIONS.

2 SERVICE ENTRANCE POKE-THROUGH LOCATION IN BUILDING SHALL MATCH REMOVED METER BOX.

3 SPARE CONDUIT FROM TAKE OFF POLE TO BE STUBBED UP AND CAPPED. CONTRACTOR SHALL INCLUDE FISH CORD IN SPARE CONDUIT.

4 CONDUIT TO NEW UV BUILDING TO MATCH PENETRATION HEIGHT OF BLOWER BUILDING SERVICE ENTRANCE LB.



NOTES

0.0	APR 10/25	ISSUED FOR TENDER	JB	EB
NO.	DATE	REVISIONS	BY	APPR.

PROJECT TITLE

UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01

NEQOTKUK N.B.

DRAWING TITLE

ELECTRICAL SITE PLAN, LEGEND AND DETAILS.

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	EB	GS
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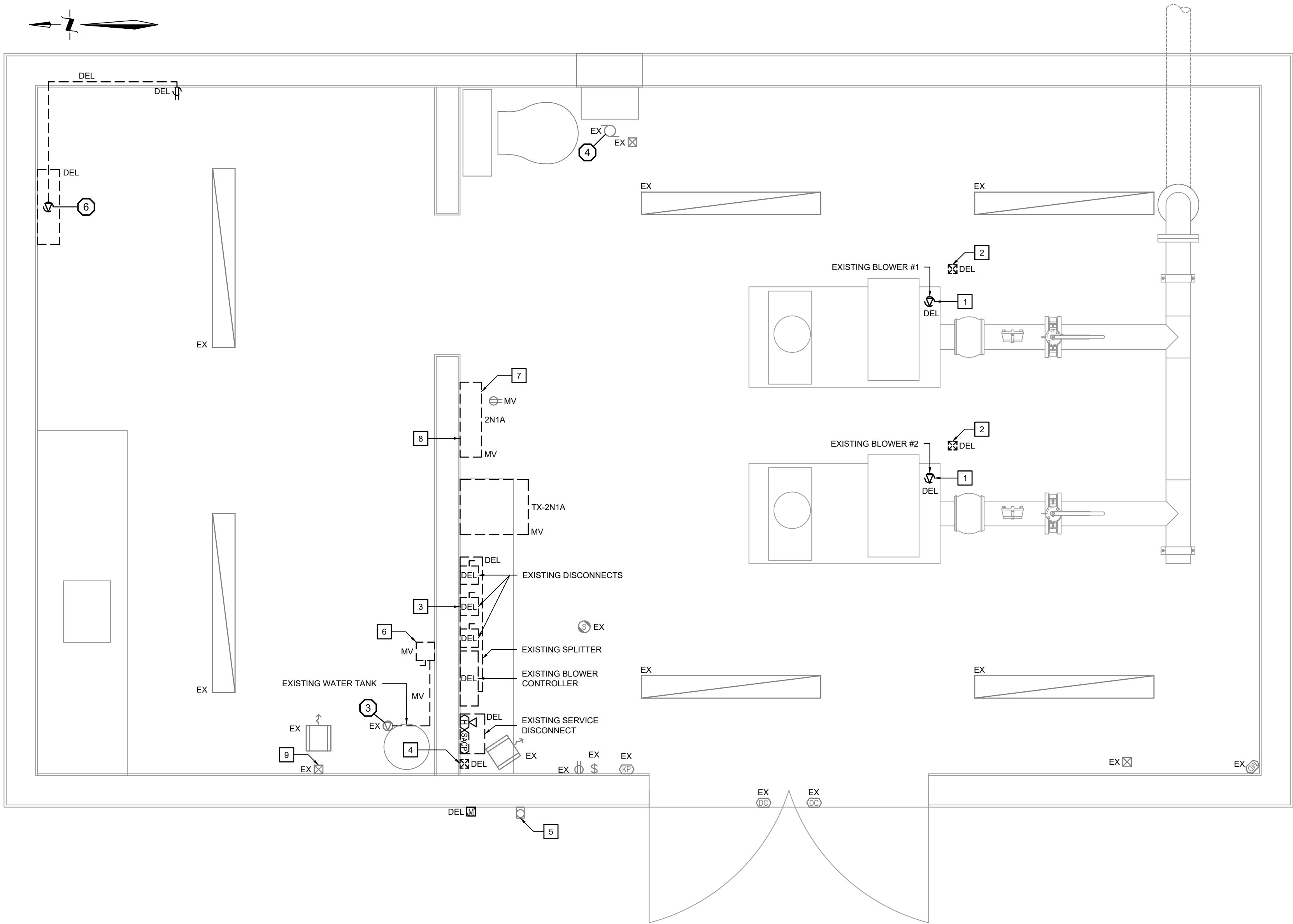
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Drawing No.

E01



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1  
E02 BLOWER BUILDING - FLOOR PLAN - EXISTING

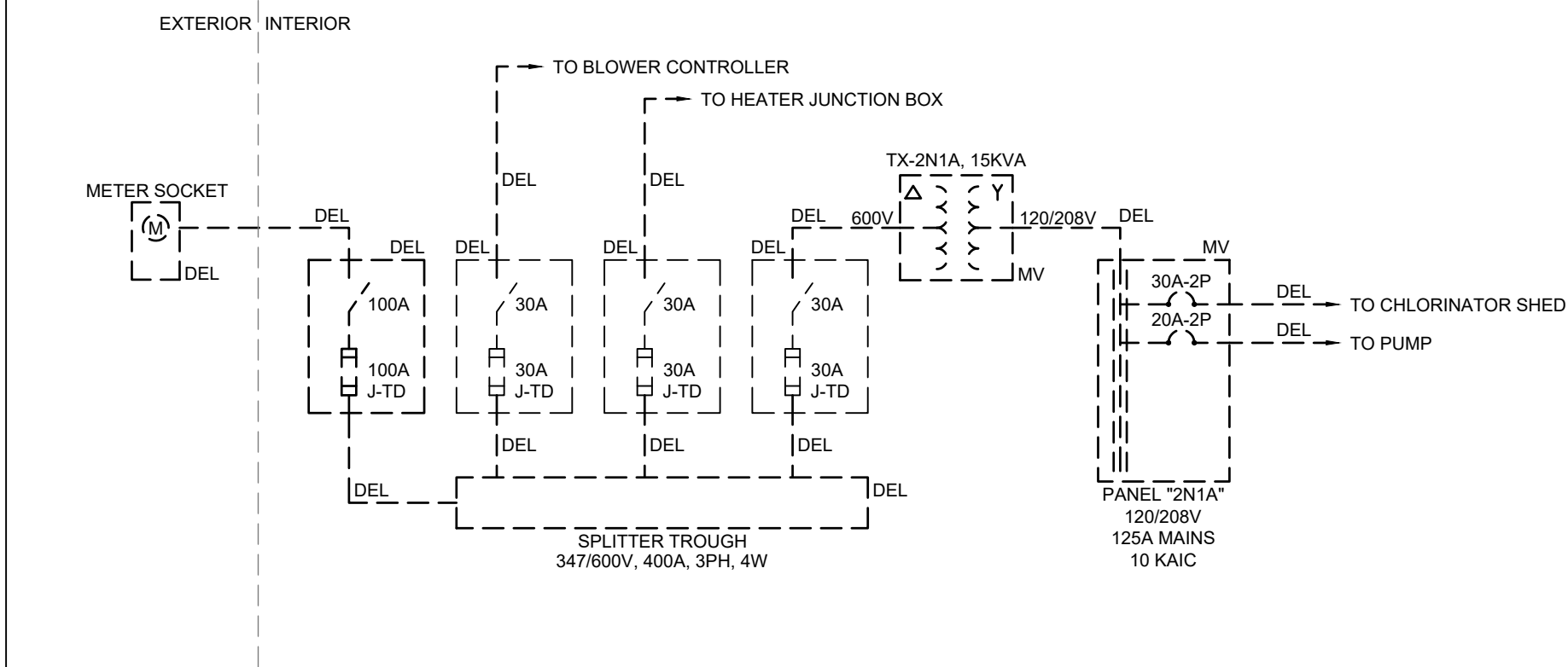
2  
E02 NOTES

GENERAL NOTES:

1. ALL CUTTING, PATCHING & REFINISHING OF FLOORS, WALLS, CEILING & ROOFING BY GENERAL CONTRACTOR.
2. ALL DEVICES INDICATED ON DEMOLITION PLANS SHALL BE REMOVED, INCLUDING BACKBOX, CONDUIT AND CONDUCTORS BACK TO SOURCE OF SUPPLY (PANELBOARD, DATA RACK, ETC.) UNLESS NOTED OTHERWISE.
3. CIRCUITS SHOWN FOR REFERENCE WHERE AVAILABLE. REMOVE CONDUCTORS AND WIRING BACK TO SOURCE OF SUPPLY FOR DEVICES INDICATED FOR REMOVAL.
4. NO WORK SHALL BE COMPLETED WITHIN PANELS LIVE. COORDINATE WITH USERS/OWNER FOR SHUT DOWNS REQUIRED TO COMPLETE WORK.
5. ANY SHUT DOWNS SHALL BE COORDINATED WITH USERS/OWNER AND BE DONE AFTER HOURS AS REQUIRED. PROVIDE MINIMUM 36 HOUR WRITTEN NOTICE PRIOR TO STARTING WORK WHEN SHUT DOWN TIME IS APPROVED.

REFERENCE NOTES:

- 1 ELECTRICAL CONTRACTOR TO DISCONNECT EXISTING BLOWER AND REMOVE POWER AND CONTROL CONDUCTORS BACK TO BLOWER CONTROL PANEL.
- 2 APPROXIMATE LOCATION OF CEILING MOUNTED JUNCTION BOX FOR BLOWER.
- 3 ELECTRICAL CONTRACTOR TO REMOVE ENCLOSED SWITCH INCLUDING CONDUIT UP TO JUNCTION BOX ON CEILING. JUNCTION BOX ON CEILING TO REMAIN.
- 4 APPROXIMATE LOCATION OF CHLORINATION BUILDING FEEDER JUNCTION BOX ALLOWING TRANSITION FROM NMD TO TECK90. ELECTRICAL CONTRACTOR TO DISCONNECT AND REMOVE CABLING BACK TO PANELBOARD. ELECTRICAL CONTRACTOR TO DISCONNECT TECK90 CABLING FROM JUNCTION BOX AND PREPARE TECK90 CABLE FOR BEING PULLED THROUGH U/G CONDUIT FROM CHLORINATION BUILDING.
- 5 APPROXIMATE LOCATION OF LB INTO BLOWER BUILDING FOR CHLORINATION BUILDING U/G FEEDER. AFTER CHLORINATION U/G TECK90 FEEDER CABLE REMOVED ELECTRICAL CONTRACTOR TO REMOVE LB AND CAP U/G CONDUIT. U/G CONDUIT TO BE ABANDONED IN PLACE. LB PENETRATION TO BE SEALED AND PATCHED.
- 6 WATER PUMP DISCONNECT. FINAL CONNECTION TO PUMP WITH AC90. ELECTRICAL CONTRACTOR TO DISCONNECT THE WATER PUMP DISCONNECT AND REMOVE CABLING AND CONDUIT BACK TO PANELBOARD. CONTRACTOR TO KEEP DISCONNECT SWITCH AND AC90 CABLE FOR RELOCATION AS PER DETAIL 1 ON SHEET E03.
- 7 WHEN REMOVING PANELBOARD, CONTRACTOR SHALL DISCONNECT AND REMOVE ALL CABLING AND CONDUIT FROM PANELBOARD UP TO JUNCTION BOXES FOR ALL LIGHTING, RECEPTACLE AND FAN CIRCUITS.
- 8 APPROXIMATE LOCATION OF LB THROUGH PARTITION WALL FOR PUMP FEEDER. GENERAL CONTRACTOR TO PATCH HOLE AND REFINISH PARTITION WALL AFTER CONDUIT AND LB HAVE BEEN REMOVED.
- 9 EXISTING PUMP CONTROL JUNCTION BOX.



3  
E02 BLOWER BUILDING - SINGLE LINE DIAGRAM - DEMO PLAN

4  
E02 BLOWER BUILDING - EXISTING PANEL SCHEDULE

Panel Voltage: 208										Panel[2N1A (EX)]			
CCT	Description	Phase			P	Bkr. Amps	Bkr. Amps	P	Phase			Description	CCT
		A	B	C					A	B	C		
1	LIGHTS & PLUGS				1	20	20	1				LIGHTS & PLUGS	2
3	FANS				1	15	20	2				PUMP	4
5	SPARE				1	15							6
7	CHLORINATOR SHED												8
9	(DEL)				2	30							10
11													12
13													14
15													16
17													18
19													20
Phase Loads (VA)		0	0	0	0				0	0	0		
Total Phase Loads (VA)		0			0				0				
Total Load (VA)		0											
Total Amperage		0.00 amps											
										C/W BREAKER LOCK C/W GROUND FAULT EXISTING			
LOADS SHOWN ARE "ESTIMATED CONNECTED LOADS"													

NOTES

0.0

APR 10/25

ISSUED FOR TENDER

JB

EB

NO.

DATE

REVISIONS

BY

APPR.







PROJECT TITLE

UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT  
FACILITY CLIENT PROJECT NO.  
F-23-NQ-01

NEQOTKUK

N.B.

DRAWING TITLE

BLOWER BUILDING EXISTING  
PLAN

Scale

AS SHOWN

Drawn By

GP/JB

Checked By

EB

Design By

GP

Cadd Check

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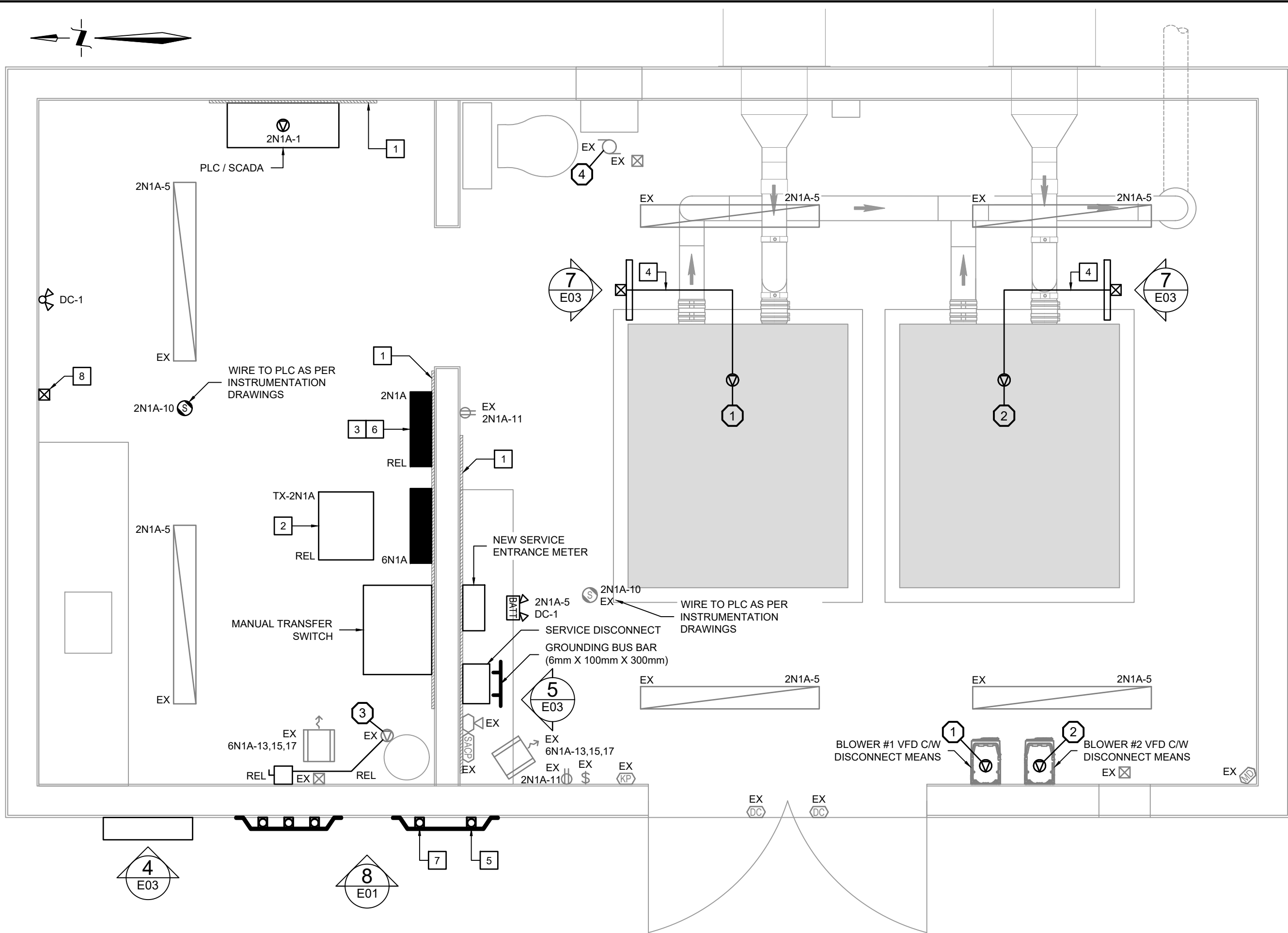
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E02

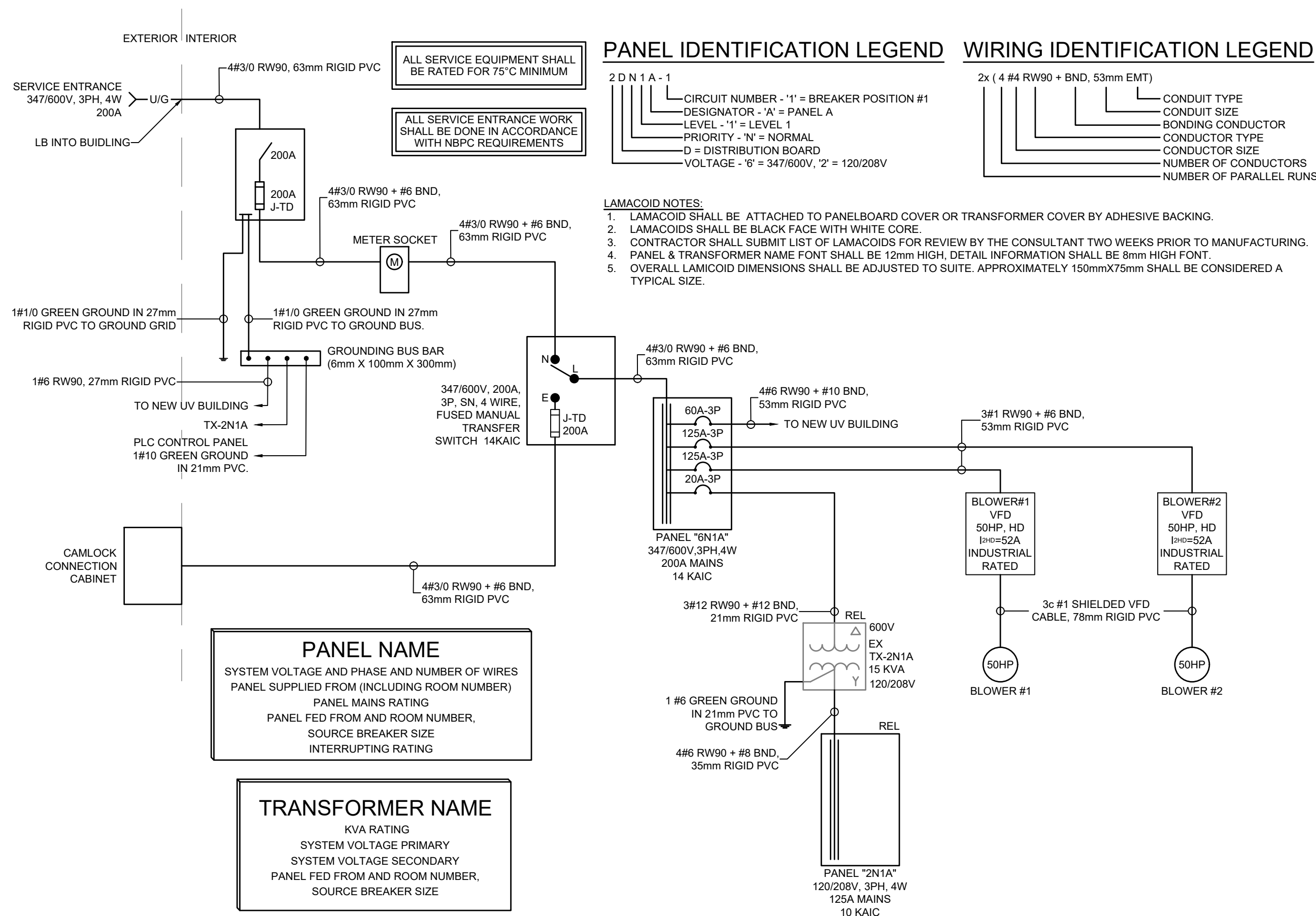
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1 E03 BLOWER BUILDING - FLOOR PLAN - NEW WORK 1:25



2 E03 BLOWER BUILDING - SINGLE LINE DIAGRAM - NEW WORK

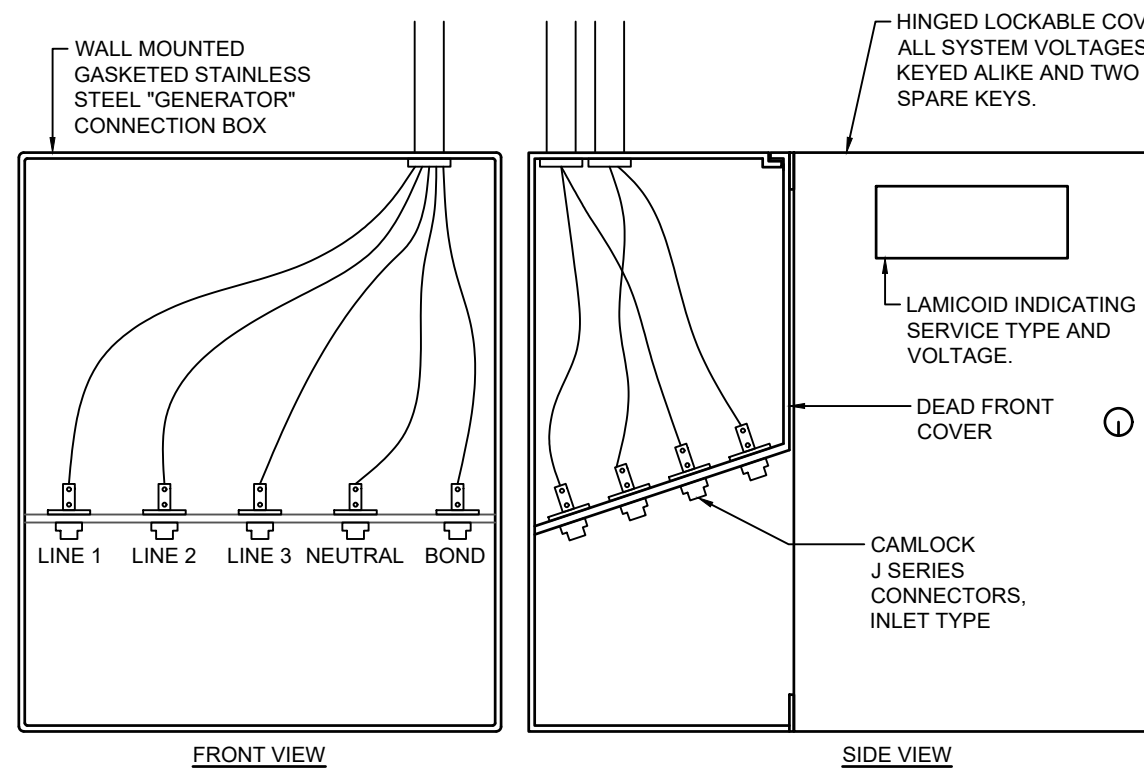
#### GENERAL NOTES:

1. ALL CUTTING, PATCHING & REFINISHING OF FLOORS, WALLS, CEILING & ROOFING BY GENERAL CONTRACTOR.
2. CONTRACTOR SHALL SEAL ALL CONDUIT PENETRATIONS THROUGH WALLS. GENERAL CONTRACTOR SHALL FIRE STOP ALL CONDUITS THAT PENETRATE THROUGH A FIRE RATED ASSEMBLY (FLOOR/WALL).

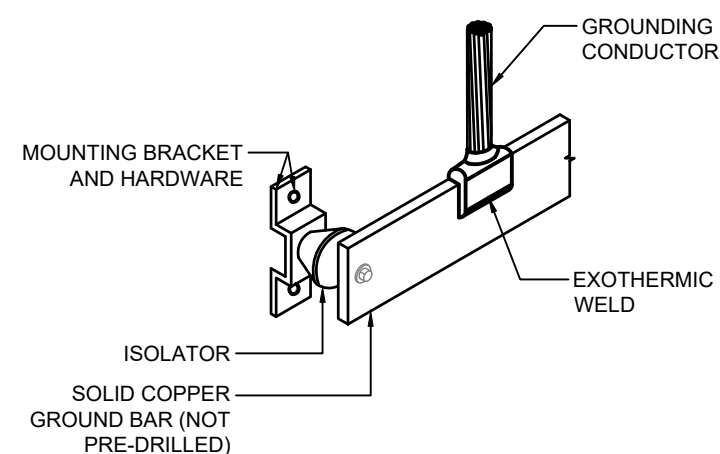
#### REFERENCE NOTES:

- 1 CONTRACTOR TO INSTALL NEW PLYWOOD BACKBOARD PAINTED WITH FIRE RATED PAINT.
- 2 WALL MOUNTED TRANSFORMER SHALL BE MOUNTED SO BOTTOM OF TRANSFORMER IS 300mm ABOVE PANELBOARD AND 300mm FROM WALL. CONTRACTOR TO FASTEN WALL MOUNTING KIT TO STUDS ADDING BLOCKING AND BACKING AS REQUIRED.
- 3 CONTRACTOR TO RELOCATE EXISTING 2N1A PANELBOARD TO THIS LOCATION. CONTRACTOR TO RUN NEW CIRCUIT CABLE AND RIGID PVC CONDUIT TO EXISTING JUNCTION BOXES FOR RECEPTACLES, LIGHTS, FANS, HEATERS AND MECH EQUIPMENT. MINIMUM ALLOWABLE WIRE SIZE #12AWG, MINIMUM ALLOWABLE CONDUIT SIZE 21mm. ALL CONDUIT AND WIRE SIZES TO ADHERE TO CANADIAN ELECTRICAL CODE.
- 4 CONTRACTOR TO USE SHORT PIECE OF C-CHANNEL WITH POST BASE NEXT TO BLOWER TO RUN TECK90 CABLE FOR DIRECT CONNECT TO BLOWER. FINAL TERMINATION TO BLOWER SHALL BE WITH WEATHER PROOF CONNECTORS.
- 5 NEW SERVICE ENTRANCE LOCATION SHALL RE-USE EXISTING PENETRATION AS REMOVED SERVICE METER, EXPANDING HOLES SIZE AS NEEDED TO MINIMIZE WORK REQUIRED ON EXTERIOR BUILDING SURFACES. ELECTRICAL CONTRACTOR TO LB NEW SERVICE ENTRANCE INTO BUILDING TO DISCONNECT SWITCH. CONDUIT AND WIRE SIZING INDICATED ON SINGLE LINE DIAGRAM. GENERAL CONTRACTOR SHALL PATCH HOLES CREATED BY DEVICE REMOVALS AND WALL TO MATCH EXISTING.
- 6 ELECTRICAL CONTRACTOR TO REWIRE PANEL 2N1A AS PER PANEL SCHEDULE IN DETAIL 8 ON SHEET E03.
- 7 SPARE CONDUIT FROM SERVICE POLE.
- 8 JUNCTION BOX NEMA TYPE 1 FOR PLC/SCADA ANTENNA CONNECTION. SEE INSTRUMENTATION DRAWINGS FOR WIRING AND CONDUIT DETAILS.

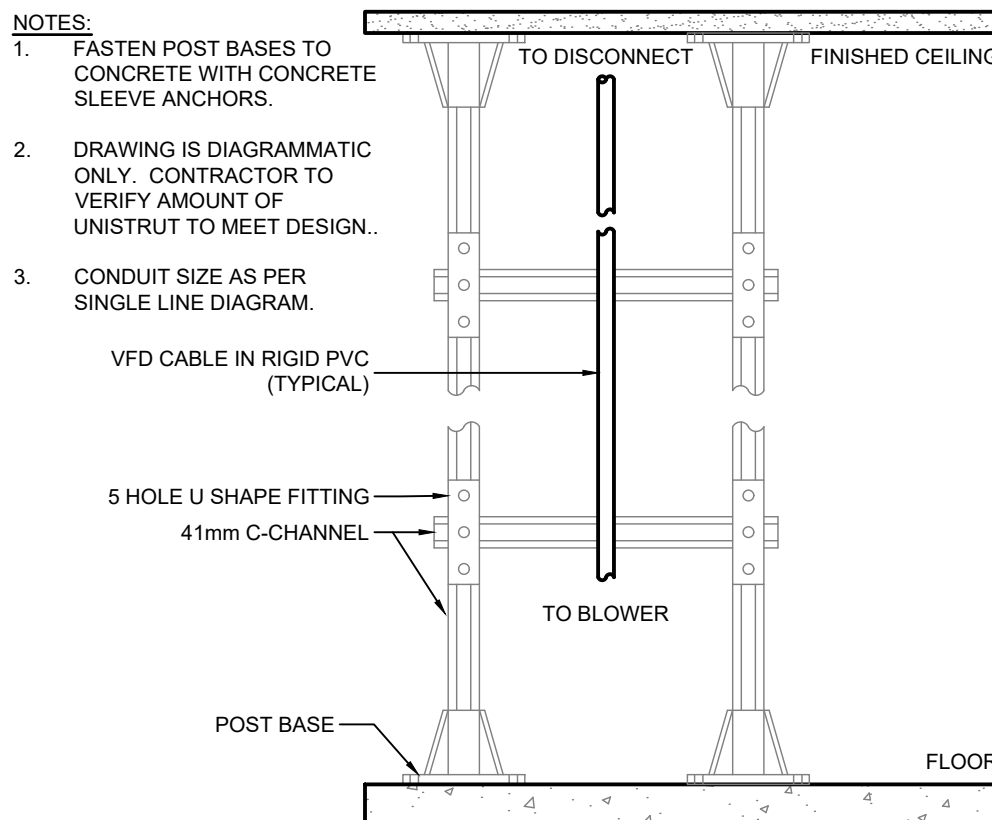
#### 3 E03 NOTES



4 E03 BLOWER BUILDING - PORTABLE GENERATOR CAMLOCK CABINET DETAIL NTS



5 E03 BLOWER BUILDING - GROUND BUS INSTALLATION DETAIL - NEW WORK NTS



7 E03 BLOWER BUILDING - TYP. UNISTRUT DETAIL NTS

- 347/600V DETAIL NOTES:
1. PORTABLE GENERATOR CAMLOCK ENCLOSURE SHALL BE COMPLETE WITH THE FOLLOWING FEATURES:
    - 1.1. NEMA 3R RATED 304 STAINLESS STEEL CONSTRUCTION, WALL MOUNTED HOUSING, COLOR CODED CAMLOCK RECEPTACLES WITH ANGLED CAMLOCK PLATE.
    - 1.2. BOTTOM ACCESS DOOR, STAINLESS STEEL HINGED DOOR WITH PADLOCK COMPATIBLE HANDLE.
    - 1.3. 600V, 200A RATED WITH 5 WIRE LUG CONFIGURATION.
  2. STANDARD OF ACCEPTANCE: FOXFAB# FFCC-C1-200-C4-G-304-LA. CONTRACTOR MAY ENGAGE CUSTOM PANEL MANUFACTURER TO PROVIDE A CSA CERTIFIED EQUIVALENT.

Service Entrance Calculation (Rule 8-210)				
Existing Blower Building				
Existing Blower Building Load*	18700 W			
Special Loads:	Load (W)	Demand Factor	Load (W)	
Existing Blowers (Removed)	-14861	100%	-14861	
New Blowers (Added)	108077	100%	108077	
Total Building	111916 W			
Building Entrance Voltage	600 V, 3ø			
Building Current	108 A			
New UV Building				
Area: Industrial	46 m <sup>2</sup>			
Basic:	25 W/m <sup>2</sup>			
Basic load:	1150 W			
Special Loads:	Load (W)	Demand Factor	Load (W)	
UV System	6000	100%	6000	
Heating	15000	100%	15000	
Hot Water Tank	3000	100%	3000	
Pumps	1440	100%	1440	
Ventilation	600	100%	600	
Total Building	27190 W			
Building Entrance Voltage	600 V, 3ø			
Building Current	27 A			
Total Site				
Total Site Load	139106 W			
Service Entrance Voltage	600 V, 3ø			
Site Entrance Current:	135 A			

\* Based on 12 months of NB Power bills with peak demand April 2023.

6 E03 BLOWER BUILDING - DEMAND CALC NTS

Panel Voltage: 600														
CCT	Description	Phase			P	Brkr. Amps	Brkr. Amps	P	Phase			Panel 6N1A Description	CCT	
		A	B	C					A	B	C			
1	NEW UV BUILDING (PANEL 6N1B)	9296			3	60	20	3	780			TX-2N1A	2	
3			7536							660				4
5				9076							900			6
7			18013							18013				8
9	NEW BLOWER #1		18013		3	125	125	3		18013		NEW BLOWER #2	10	
11				18013							18013			12
13	HEATERS	2000			3	15							14	
15			2000										16	
17				2000									18	
19													20	
21													22	
23													24	
Phase Loads (VA)		29309	27549	29089					18793	18673	18913			
Total Phase Loads (VA)		48102			46222				48002					
Total Load (VA)		142325												
Total Amperage		137.00 amps												
												C/W BREAKER LOCK		
												C/W GROUND FAULT		
LOADS SHOWN ARE "ESTIMATED CONNECTED LOADS"														

Panel Voltage: 208													
CCT	Description	Phase			P	Brkr. Amps	Brkr. Amps	P	Phase			Panel(ZN1A) (REL)	
		A	B	C					A	B	C	Description	CCT
1	PLC***	720			1	20	20	1				SPARE	2
3	FAN		300		1	15	15	1		300		PUMP	4
5	LIGHT***			600	1	15					300		6
7	SPARE				2	30	15	1	60			AIR FLOW METER	8
9							15	1		60		SMOKE DETECTORS*	10
11	RECEPTACLES				1	15							12
13													14
15													16
17													18
19													20
Phase Loads (VA)		720	300	600					60	360	300		
Total Phase Loads (VA)		780			660			900					
Total Load (VA)		2340											
Total Amperage		7.00 amps											
												C/W BREAKER LOCK	
												C/W GROUND FAULT	
												RE-USED BREAKER	
												EXISTING	
LOADS SHOWN ARE "ESTIMATED CONNECTED LOADS"													

PANELBOARD IS 10 KAIC SQUARE D QOO LOAD CENTER

8 E03 BLOWER BUILDING - PANEL SCHEDULES - NEW WORK NTS

#### NOTES

0.0	APR 10/25	ISSUED FOR TENDER	JB	EB
NO.	DATE	REVISIONS	BY	APPR.



PROJECT TITLE  
**UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01**

NEQOTKUK N.B.  
DRAWING TITLE

**BLOWER BUILDING NEW WORK, SINGLE LINE DIAGRAM, PANEL SCHEDULES AND DETAILS**

Scale  AS SHOWN	Drawn By  GP/JB	Design By  GP
	Checked By  EB	Cadd Check  GS
	Sheet  03	of  06

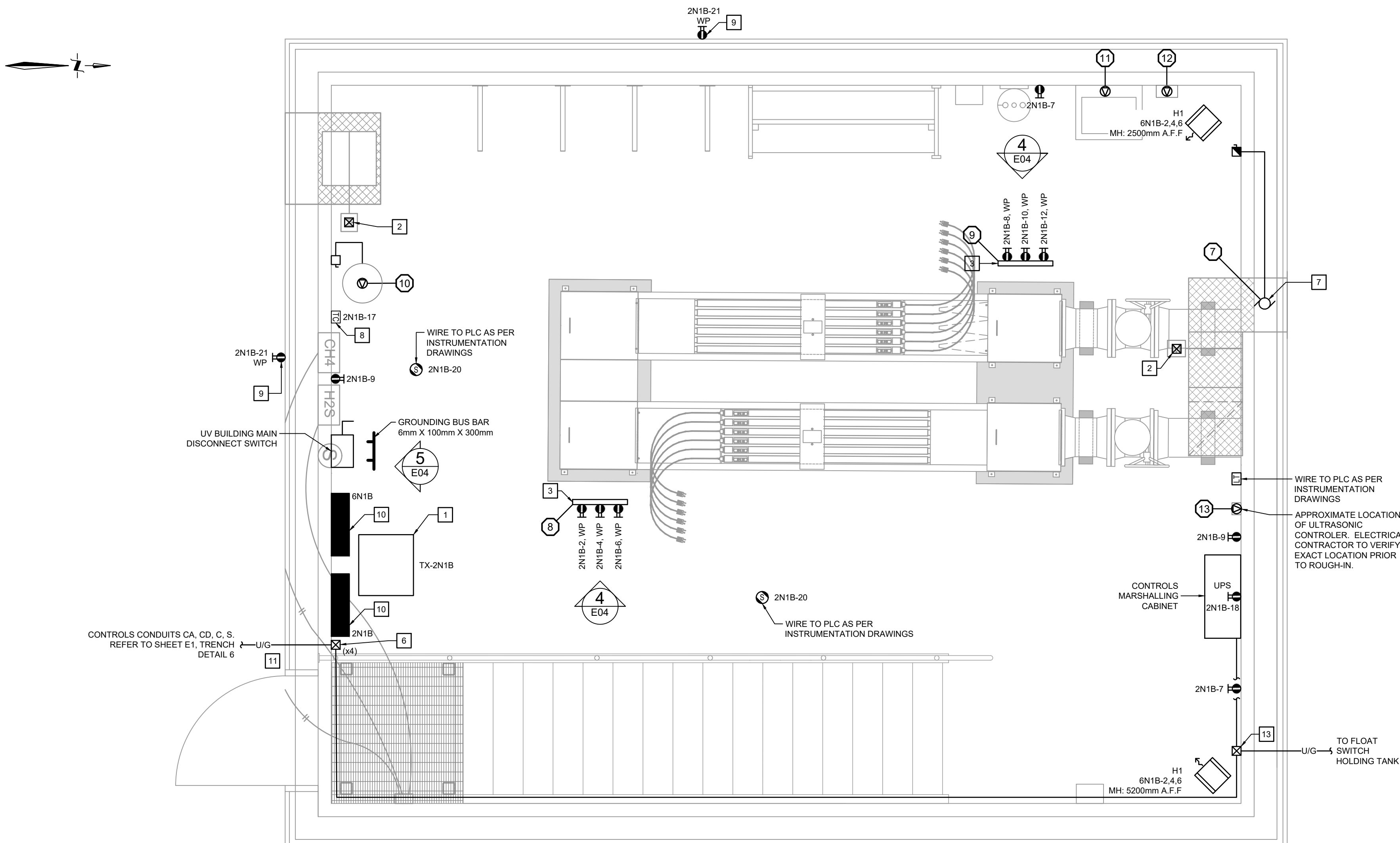
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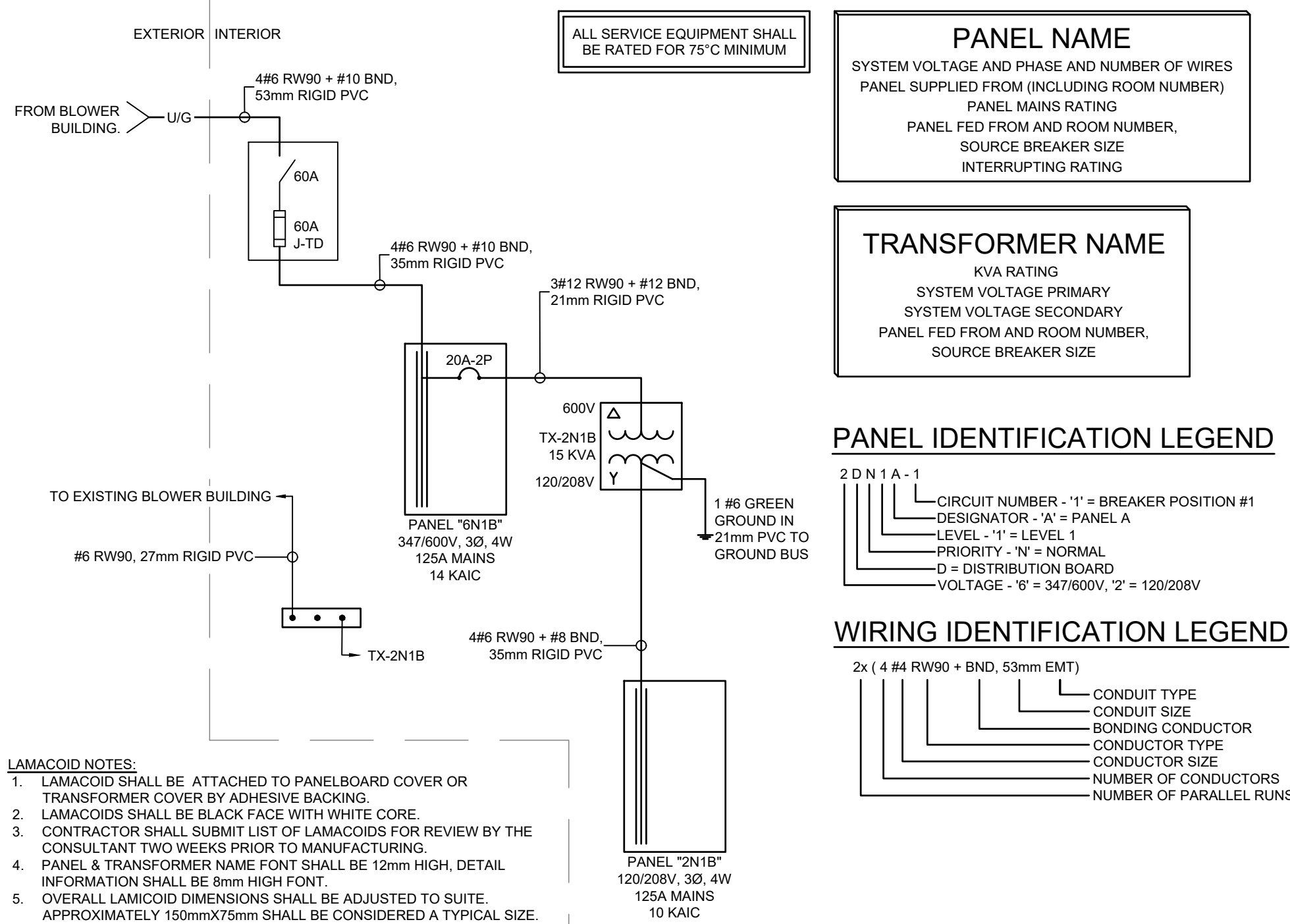
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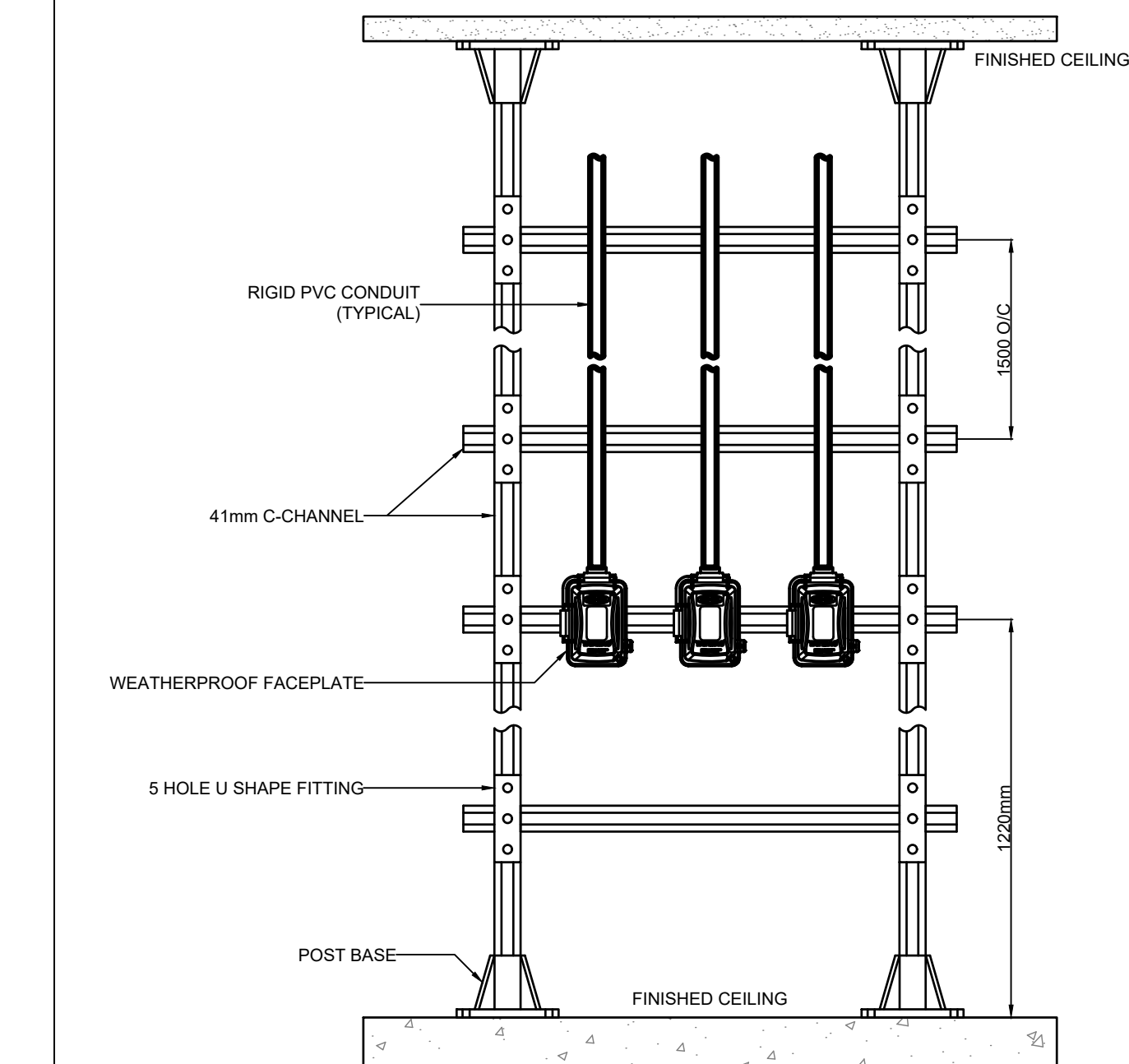
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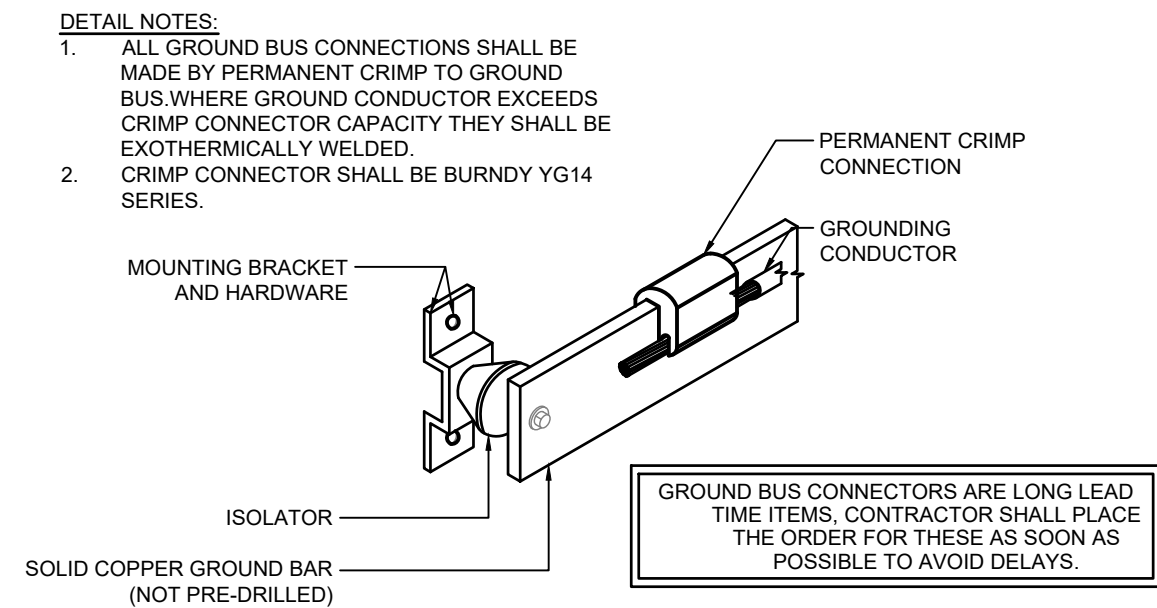
1 E04 UV BUILDING - FLOOR PLAN - POWER AND COMMUNICATIONS - NEW WORK



3 E04 UV BUILDING - SINGLE LINE DIAGRAM - NEW WORK



4 E04 DETAIL - UV SYSTEM POWER UNISTRUT STRUCTURE



6 E04 EXPLOSION PROOF WELL BOX DETAIL

## GENERAL NOTES:

- ALL CUTTING, PATCHING & REFINISHING OF FLOORS, WALLS, CEILING & ROOFING BY GENERAL CONTRACTOR.

## REFERENCE NOTES:

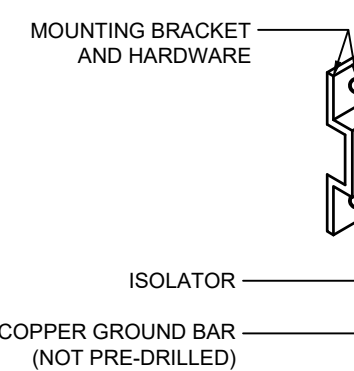
- WALL MOUNTED TRANSFORMER SHALL BE MOUNTED SO BOTTOM OF TRANSFORMER IS 300mm ABOVE PANELBOARD AND 150mm FROM WALL. CONTRACTOR TO FASTEN WALL MOUNTING KIT TO STUDS ADDING BLOCKING AND BACKING AS REQUIRED.
- JUNCTION BOX NEMA TYPE 3R FOR MOTORIZED DAMPER. REFER TO CONTROL DRAWINGS FOR WIRING AND CONDUIT DETAILS. COORDINATE LOCATION OF DAMPER PRIOR TO CONDUIT ROUGH-IN.
- FLOOR TO CEILING C-CHANNEL SUPPORT STRUCTURE. COORDINATE ACTUAL CONNECTION POINTS PRIOR TO INSTALLING C-CHANNEL SYSTEM. LIMIT ANY OBSTRUCTIONS FOR FUTURE WORK.
- NOT USED.
- NOT USED.
- PULL BOX FOR SPARE CONDUIT FROM BLOWER BUILDING, PULL BOX TO BE 300mm X 300mm X 150mm. CONDUIT PENETRATIONS BELOW GRADE TO BE SEALED WITH HYDRA SEAL AS REQUIRED.
- CONTROL WIRING FOR ACTUATOR AND LIMIT SWITCHES FOR INTAKE AND EXHAUST LOUVERS BY ELECTRICAL CONTRACTOR. COORDINATE ALL WIRING REQUIREMENTS WITH MECHANICAL DRAWINGS. VENTILATION CONTROLS SHALL BE DONE THROUGH PLC.
- TIME CLOCK TO CONTROL EXTERIOR LIGHTING.
- ALL EXTERIOR RECEPTACLES SHALL BE C/W HEAVY DUTY PVC WHILE IN USE COVER PLATES.
- ELECTRICAL PANELBOARDS SHALL BE NEMA TYPE 3R ENCLOSURE
- APPROXIMATE LOCATION OF H2S/CH4 STROBE LIGHT BY MECHANICAL. ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATION WITH ARCHITECT. ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION BACK TO GAS DETECTOR CONTROLLER AS PER INSTRUMENTATION DRAWINGS.
- APPROXIMATE LOCATION OF CONTROL ANALOG, CONTROL DIGITAL AND COMMUNICATIONS CONDUITS FROM BLOWER BUILDING. ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN
- PULL BOX FOR SPARE CONDUIT TO HOLDING TANK, PULL BOX TO BE 300mm X 300mm X 150mm. CONDUIT PENETRATIONS BELOW GRADE TO BE SEALED WITH HYDRA SEAL AS REQUIRED.

## 2 E04 NOTES

NTS

### DETAIL NOTES:

- ALL GROUND BUS CONNECTIONS SHALL BE MADE BY PERMANENT CRIMP TO GROUND BUS WHERE GROUND CONDUCTOR EXCEEDS CRIMP CONNECTOR CAPACITY THEY SHALL BE EXOTHERMICALLY WELDED.
- CRIMP CONNECTOR SHALL BE BURNDY YG14 SERIES.



GROUND BUS CONNECTORS ARE LONG LEAD TIME ITEMS. CONTRACTOR SHALL PLACE THE ORDER FOR THESE AS SOON AS POSSIBLE TO AVOID DELAYS

5 E04 UV BUILDING - GROUND BUS INSTALLATION DETAIL

NTS

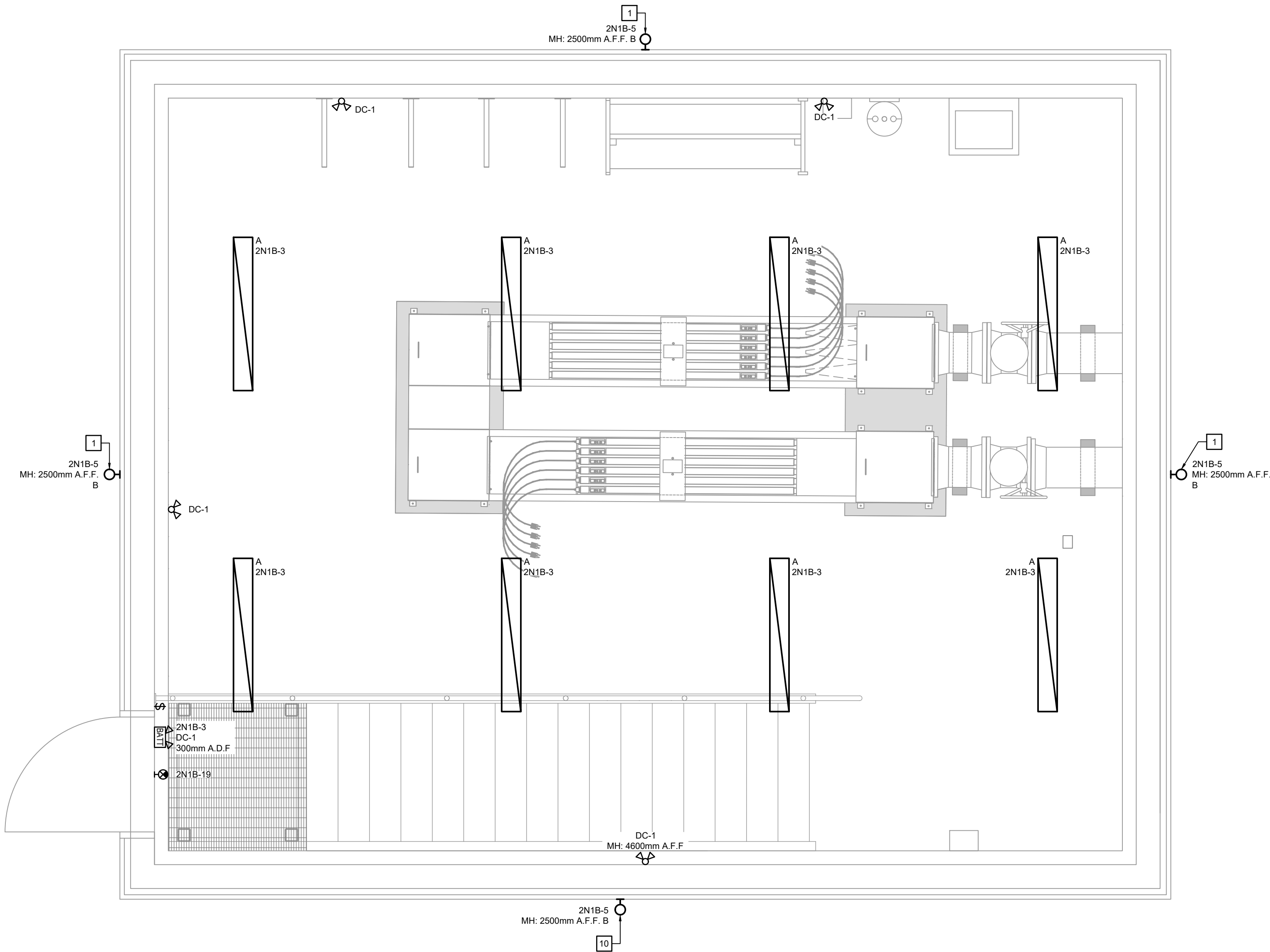
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NO.	DATE	REVISIONS	BY	APPR.
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UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01				
NEQOTKUK			N.B.	
DRAWING TITLE				
NEW UV BUILDING POWER AND COMMUNICATIONS, SINGLE LINE DIAGRAM, AND DETAILS				
Scale  AS SHOWN		Drawn By	Design By	
		GP/JPB	GP	
		Checked By	Cadd Check	
		EB	GS	
		Sheet 04 of 06		
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2308072.001 E04-E06.DWG				
Drawing No.				
E04				



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1  
E05

UV BUILDING - FLOOR PLAN - LIGHTING - NEW WORK



2  
E05

NOTES

GENERAL NOTES:

1. ALL CUTTING, PATCHING & REFINISHING OF FLOORS, WALLS, CEILING & ROOFING BY GENERAL CONTRACTOR.

REFERENCE NOTES:

- 1 EXTERIOR LIGHTING SHALL BE WIRED THROUGH TIME CLOCK.

NOTES

0.0	APR 10/25	ISSUED FOR TENDER	JB	EB
NO.	DATE	REVISIONS	BY	APPR.



PROJECT TITLE			
UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01			
NEQOTKUK			N.B.
DRAWING TITLE			
NEW UV BUILDING LIGHTING			
Scale	Drawn By	Design By	
	GP/JB	GP	
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


MECHANICAL EQUIPMENT SCHEDULE										
ID	DESCRIPTION	VOLTAGE	LOAD	BREAKER	FEEDER	CCT ID	CONTROLS	DISCONNECT	BUILDING	NOTES
1	BLOWER #1	600V, 3PH	50HP	125A-3P	3#1 RW90 + #6 BND, 41mm RIGID PVC + 3c#1 SHIELDED VFD CABLE	6N1A-7,9,11	VFD	-	BLOWER	2,10
2	BLOWER #2	600V, 3PH	50HP	125A-3P	3#1 RW90 + #6 BND, 41mm RIGID PVC + 3c#1 SHIELDED VFD CABLE	6N1A-8,10,12	VFD	-	BLOWER	2,10
3	PUMP	208V, 1PH	7.6A FLA	20A-2P	2#12 RW90 + #12 BND, 21mm RIGID PVC + 2c#12 TECK90	2N1A-4,6	-	EXISTING RELOCATED	BLOWER	1,3
4	EXISTING EXHAUST FAN	120V, 1PH	2.5A FLA	15A-1P	2#12 RW90 + #12 BND, 21mm RIGID PVC + 2c#12 TECK90	2N1A-3	PLC	EXISTING	BLOWER	1,3
5	NOT USED									
6	CHLORINATION STATION	120V, 1PH	-	-	-	-	-	-	BLOWER	4
7	EXHAUST FAN	120V, 1PH	2.5A FLA	15A-1P	2#12 RW90 + #12 BND, 21mm RIGID PVC + 2c#12 TECK90	2N1B-1	PLC	MSR	UV	5
8	UV SYSTEM A	120V, 1PH	6.4 FLA	20A-1P	2#10 RW90 + #12 BND, 21mm RIGID PVC	2N1B-2, 2N1B-4, 2N1B-9	PLC	RECETPACLE	UV	6
9	UV SYSTEM B	120V, 1PH	6.4 FLA	20A-1P	2#10 RW90 + #12 BND, 21mm RIGID PVC	2N1B-9, 2N1B-10, 2N1B-12	PLC	RECEPTACLE	UV	6
10	HOT WATER TANK	208V, 1PH	3KW	20A-2P	2#12 RW90 + #12 BND, 21mm RIGID PVC + 2c#12 TECK90	2N1B-11,13	-	30A NEMA 3R	UV	5,7
11	UV SYSTEM CONTROLLER	120V, 1PH	5A FLA	15A-1P	2#12 RW90 + #12 BND, 21mm RIGID PVC	2N1B-14	-	-	UV	-
12	TRAP PRIMER	120V, 1PH	FACT	15A-1P	2#12 RW90 + #12 BND, 21mm RIGID PVC + 2c#12 TECK90	2N1B-15	-	-	UV	5
13	ULTRASONIC CONTROLLER	120V, 1PH	FACT	15A-1P	2#12 RW90 + #12 BND, 21mm RIGID PVC + 2c#12 TECK90	2N1B-16	-	-	UV	5
14	FLOAT SWITCH (HOLDING TANK)	24V	FRACT	PLC	WIRING AND CONDUIT BY CONTROLS CONTRACTOR	PLC	PLC	-	UV	8,9
15	ULTRASONIC SENSOR (HOLDING TANK)	24V	FRACT	PLC	WIRING AND CONDUIT BY CONTROLS CONTRACTOR	PLC	PLC	-	UV	8,9
NOTES: 1. FINAL CONNECTION TO UNIT SHALL BE MADE WITH TECK90. 2. VFD SHALL COME C/W DISCONNECT MEANS. 3. EXISTING EQUIPMENT TO BE RECONNECTED AFTER INITIAL BLOWER BUILDING DEMOLITION WORK. CONTRACTOR TO USE EXISTING BREAKER IN PANELBOARD. 4. EXISTING BLOWER BUILDING EQUIPMENT TO BE REMOVED. 5. FINAL CONNECTION TO UNIT SHALL BE MADE WITH TECK90 C/W WEATHER TIGHT AND APPROVED CONNECTORS. 6. UV SYSTEM USES THREE THREE (3) 20A-1P BREAKERS CONNECTED TO INDIVIDUAL 20A GFCI RECEPTACLES. 7. HOT WATER TANK DISCONNECT LOCATED UNDER ENTRANCE STAIRS. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. 8. CONTROL WIRING AS PER INSTRUMENTATION DRAWINGS. 9. POWER WIRING AS PER INSTRUMENTATION DRAWINGS. 10. FINAL CONNECTION FROM VFD TO BLOWER SHALL BE MADE WITH SHIELDED VFD.					CONTROLS LEGEND: MS - MANUAL STARTER C/W OVERLOAD PROTECTION AND LOCKOUT PROVISION MSR-MANUAL STARTER C/W OVERLOAD PROTECTION, LOCKOUT PROVISION AND EXTERNAL CONTROL RELAY. RELAY BASE SHALL BE MOUNTED WITHIN AN ENCLOSURE SEPARATE FROM MANUAL STARTER (CONFIRM CONTROL COIL VOLTAGE WITH MECHANICAL CONTRACTOR) HOA - MAGNETIC STARTER C/W DISCONNECT, CONTROL RELAYS AND HAND, OFF,AUTO SELECTOR SWITCH. SS - SOFT START VFD - VARIABLE FREQUENCY DRIVE, C/W LOCK OUT PROVISIONS					

Panel Voltage: 600											Panel 6N1B			
cct	Description	Phase			P	Brkr. Amps	Brkr. Amps	P	Phase			Description	cct	
		A	B	C					A	B	C			
1	TX-2N1B	4296			3	20	20	3	5000			HEATERS	2	
3			3976							5000				4
5				4076									5000	6
7														8
9														10
11														12
13														14
15														16
17											18			
Phase Loads (VA)		4296	3976	4076					5000	5000	5000			
Total Phase Loads (VA)		9296			8976				9076					
Total Load (VA)		27348												
Total Amperage		27.00 amps										C/W BREAKER LOCK C/W GROUND FAULT		
LOADS SHOWN ARE "ESTIMATED CONNECTED LOADS"														

Panel Voltage: 208													Panel 2N1B	
CCT	Description	Phase			P	Brkr. Amps	Brkr. Amps	P	Phase			Description	CCT	
		A	B	C					A	B	C			
1	EXHAUST FAN (EF-1)	300			1	15	20	1	768			UV SYSTEM A RECEPTACLE #1	2	
3	INTERIOR LIGHTS		400		1	15	20	1		768		UV SYSTEM A RECEPTACLE #2	4	
5	EXTERIOR LIGHTS			200	1	15	20	1			768	UV SYSTEM A RECEPTACLE #3	6	
7	INTERIOR RECEPTACLES	240			1	20	20	1	768			UV SYSTEM B RECEPTACLE #1	8	
9	INTERIOR RECEPTACLES		240		1	20	20	1		768		UV SYSTEM B RECEPTACLE #2	10	
11	HOT WATER TANK			1500	2	20	15	1			768	UV SYSTEM B RECEPTACLE #3	12	
13		1500			2	20	15	1	600			UV SYSTEM CONTROLLER	14	
15			60			1	15	15	1		60		ULTRASONIC CONTROLLER	16
17	TRAP PRIMER**				1	15	15	1				PLC / SCADA	18	
19	TIME CLOCK			120	1	15	15	1			720		20	
21	EXIT SIGN*	60			1	15	15	1	60			SMOKE DETECTOR*	22	
23	EXTERIOR RECEPTACLES		240		1	20							24	
25													26	
27													28	
29													30	
31													32	
33													34	
35													36	
37													38	
39													40	
41													42	
Phase Loads (VA)		2100	940	1820					2196	1596	2256			
Total Phase Loads (VA)		4296			2536				4076					
Total Load (VA)		10908												
Total Amperage		31.00 amps										C/W BREAKER LOCK C/W GROUND FAULT		
LOADS SHOWN ARE "ESTIMATED CONNECTED LOADS"														

1 E06 BLOWER AND UV BUILDING MECHANICAL EQUIPMENT SCHEDULE

2 E06 UV BUILDING - PANEL SCHEDULES

LUMINAIRE SCHEDULE							
TYPE	DESCRIPTION	MANUFACTURER			MOUNTING TYPE	LAMP	VOLTAGE
A	LIGHT GRAY, FULLY GASKETED, POLYCARBONATE HOUSING, HIGH-IMPACT RESISTANT HOUSING AND EXTRUDED SILICONE RUBBER GASKET. SURFACE MOUNT	LITHONIA: #CSVT-L48-5000LM-MVOLT-40K-80CRI	CREE: C-VT-A-LVT4-SSL-SCCT-UL-GR	DAY-BRITE: VTS-4-2856L-8CST-UNV3-DIM	SURFACE MOUNT	LED ~5000LM ~42 WATTS 4000K ≥80CRI	120V
B	EXTERIOR WALL MOUNTED LED FIXTURE, BLACK FINISH, DISTRIBUTION TYPE 3 MEDIUM	LITHONIA: WDGE2-LED-P4-40K-70CRI-T3M-MVOLT-SRM-DBLXD	CREE: OSQW-C-6L-40K7-3M-UL-WM-BK	GARDCO: GWS-A04-740-T3M-UNV-BK	WALL MOUNT	LED ~4800LM ~47 WATTS 4000K ≥70CRI	120V
	FULLY GASKETED DIE-CAST ALUMINIUM BACK PLATE WITH CLEAR POLYCARBONATE COVER, NEMA-4X CERTIFIED, WHITE FINISH	READY-LITE: LDX12-72NM-2-LD10	EMERGH-LITE: 12NXM-W72/2-LJ	LUMACELL: RG12NX72-2-LD10	WALL MOUNT	120VAC INPUT, 12V DC OUTPUT, 2x6W LED	120V
	LED DUAL HEAD REMOTE, WHITE FINISH, NEMA 4X	READY-LITE: TUF-NMMP-2-LD10	EMERGH-LITE: EF39P-D-M-LI	LUMACELL: MQM-NX	WALL MOUNT	12V DC INPUT, 2x6W LED	120V
	PVC FRAME PICTORIAL EXIT SIGN, UNIVERSAL MOUNTING, UNIVERSAL FACES C/W AUTO TEST AND DIAGNOSTIC, SELF-POWERED C/W BATTERY CHARGER, WHITE FINISH, NEMA 4X	READY-LITE: RN SERIES	EMERGH-LITE: EN SERIES	LUMACELL: LN SERIES	-	3W LED	120V
<div>NOTES:</div> <div>1. MANUFACTURERS NOT LISTED AND/OR NOT ADDED TO LIST DURING TENDER/QUOTATION PERIOD WILL NOT BE ACCEPTED POST AWARD OF PROJECT.</div>							

3 E06 UV BUILDING LUMINAIRE SCHEDULE

HEATER SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER	CONTROLS	VOLTAGE/ LOAD
H1	7.5KW, 600V, 3PH, UNIT HEATER C/W 24V BUILT IN RELAY FOR TEMPERATURE CONTROL	STELPRO: SHU0763C24CHAR	BY PLC BY 24V BUILT-IN RELAY ON HEATER	600V, 3PH
NOTES: 1. APPROVED EQUIVALENT BY OUELLETTE, CHROMALOX.				

4 E06 UV BUILDING HEATING SCHEDULE

NOTES

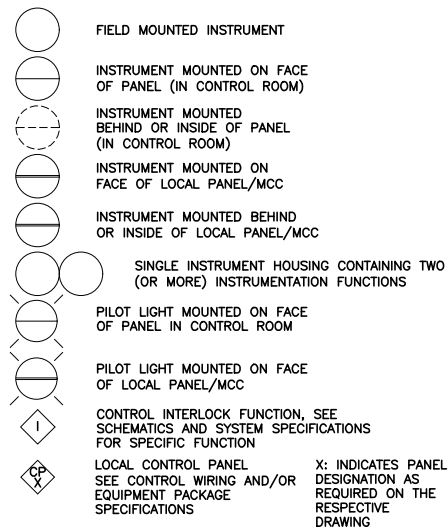
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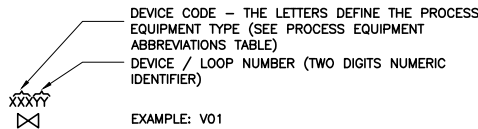
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NEQOTKUK	N.B.	
DRAWING TITLE		
NEW UV BUILDING SCHEDULES		
Scale    AS SHOWN	Drawn By	Design By
	GP/JB	GP
	Checked By	Cadd Check
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2308072.001 E04-E06.DWG		
Drawing No.		
E06		



GENERAL INSTRUMENT SYMBOLS

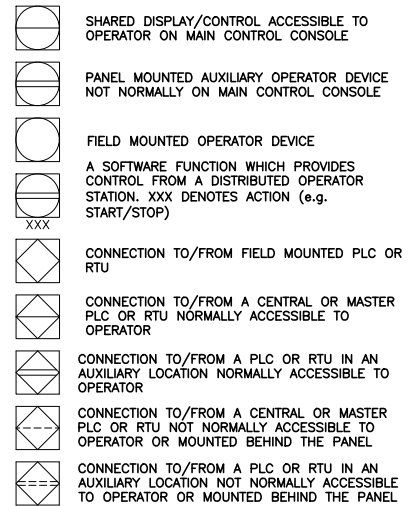
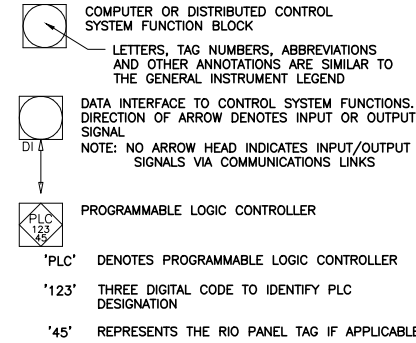


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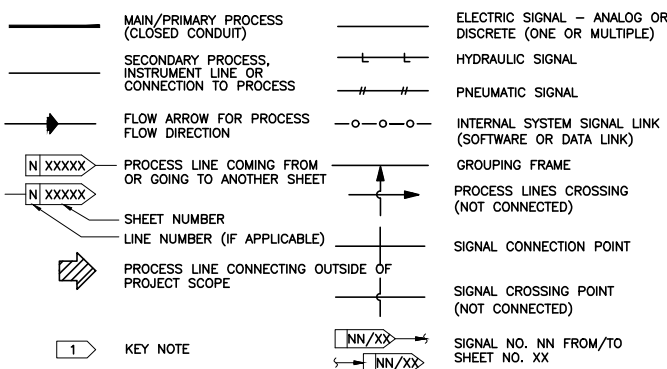


DIGITAL SYSTEMS INTERFACE SYMBOLS

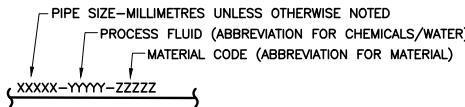
NOTE: REFER TO DETAILED SYSTEM SPECIFICATIONS FOR FUNCTIONAL DESCRIPTION. ALSO SEE I/O SCHEDULES FOR COMPLETE INPUT AND OUTPUT LISTINGS.



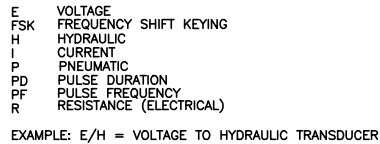
LINE LEGEND AND SYMBOLS



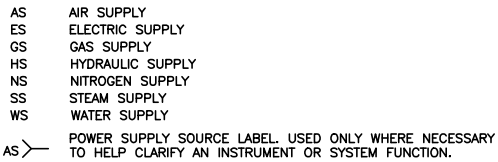
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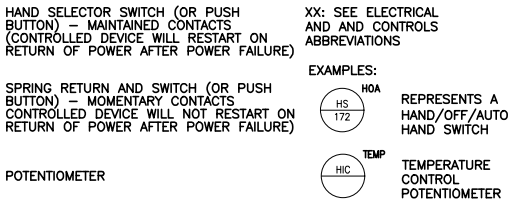
TRANSDUCER & CONVERTER DESIGNATION



POWER SUPPLY ABBREVIATIONS



HAND SWITCH DESIGNATIONS



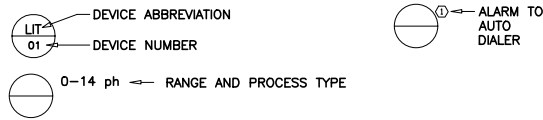
IDENTIFICATION LETTERS FOR INSTRUMENT TAGGING (1.2)

LETTER	FIRST LETTER		SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS (3)		ALARM		
B	BURNER, COMBUSTION			CLOSE, STOP, DECREASE (4)	
C	CONDUCTIVITY (ELECTRICAL)		CONTROLLER	CONTROL	
D	DENSITY (MASS) OR SPECIFIC GRAVITY	DIFFERENTIAL	DIFFERENTIAL	OPEN, START, INCREASE (4)	
E	VOLTAGE (EMF)		PRIMARY ELEMENT		
F	FLOW RATE	RATIO (FRACTION)	RATIO		FAIL (4)
G	STATUS		GLASS		
H	HAND (MANUALLY INITIATED)				HIGH
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME OR TIME–SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW
M	MOTOR, MOTION	MOMENTARY	MOMENTARY	MOTOR (4)	MIDDLE OR INTER–MEDIATE
N				ON, OPERATE (4)	
O			ORIFICE (RESTRICTION)		
P	PRESSURE OR VACUUM		POINT (TEST CONNECTION)		
Q	QUANTITY	INTEGRATE OR TOTALIZE	INTEGRATE OR TOTALIZE		
R	RADIATION		RECORD OR PRINT		
S	SPEED OR FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION (3)	MULTIFUNCTION (3)	MULTIFUNCTION (3)
V	VIBRATION			VALVE, DAMPER, OR LOUVER	
W	WEIGHT OR FORCE		WELL		
X	UNCLASSIFIED		UNCLASSIFIED (3)	UNCLASSIFIED (3)	UNCLASSIFIED (3)
Y	EVENT, STATE, OR PRESENCE			RELAY OR COMPUTE	
Z	POSITION, DIMENSION			DRIVE, ACTUATOR OR UNCLASSIFIED FINAL CONTROL ELEMENT	

ELECTRICAL & CONTROL EQUIPMENT AND FUNCTIONS ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A	AUTO	H	HAND/HOLD	NO	NORMALLY OPENED	PF	POWER FAIL RELAY	TA	TEST ALARM
CB	CIRCUIT BREAKER	HS	HAND SWITCH OR PUSH BUTTON OR SELECTOR SWITCH	O	OPEN/OFF	PSU	POWER SUPPLY UNIT	TD	TIME DELAY/RELAY
CP	CONTROL PANEL	HOA	HAND–OFF–AUTO	OC	OPEN–CLOSE	REV	REVERSE	UPS	UNINTERRUPTIBLE POWER SUPPLY
D	DISABLE	IO	LOCAL INPUT/OUTPUT PLC/RTU MODULES	OL	OVERLOAD	RTU	REMOTE TELEMETRY/TERMINAL UNIT SUPERVISORY CONTROL AND DATA ACQUISITION	VFD/VSD	VARIABLE FREQUENCY/SPEED DRIVE
E	ENABLE	J	JOG	ON	ON	SCADA		R	REMOTE
ET	ELAPSED TIME	LP	CONTROL PANEL, LIGHTING	OO	ON–OFF	SP	STOP	L	LOCAL/LOCK
FWD	FORWARD	M	MOTOR	OOA	ON–OFF–AUTO	SS	START–STOP	LOR	LOCAL–OFF–REMOTE
FZ	FUSE	MCC	MOTOR CONTROL CENTER	OOR	ON–OFF–REMOTE	ST	START	FOR	FORWARD–OFF–REVERSE
G	GROUND	NC	NORMALLY CLOSED	OSC	OPEN–STOP–CLOSE	T	TRANSFORMER	FOS	FAST–OFF–SLOW
HL	HIGH–LOW								

TAG NUMBERS AND ADDITIONAL DESIGNATIONS



INSTRUMENT FUNCTIONAL DESIGNATIONS AND ABBREVIATIONS

- K GAIN OR ATTENUATE (INPUT:OUTPUT)
- K GAIN AND REVERSE
- Σ ADD OR SUM (ADD AND SUBTRACT)
- Δ SUBTRACT (DIFFERENCE)
- √ EXTRACT SQUARE ROOT
- ÷ DIVIDE
- F(X) CHARACTERIZE SIGNAL
- > HIGH–SELECT
- < LOW–SELECT
- X MULTIPLY
- ∫ INTEGRATE (TIME INTEGRAL)
- CH4 METHANE
- CL2 CHLORINE RESIDUAL
- CO2 CARBON DIOXIDE
- DO DISSOLVED OXYGEN
- LEL LOWER EXPLOSIVE LIMIT
- MLSS MIXED LIQUOR SUSPENDED SOLIDS
- O2 OXYGEN (PURITY)
- pH pH CELL
- TURB TURBIDITY
- H2S HYDROGEN SULFIDE
- ORP OXIDATION REDUCTION POTENTIAL



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UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
P&ID LEGEND 1

SCALE	N.T.S.
DWG. NO.	P01
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PROCESS FLUID (ABBREVIATION FOR CHEMICALS/WATER)

MATERIAL CODE (ABBREVIATION FOR MATERIAL)

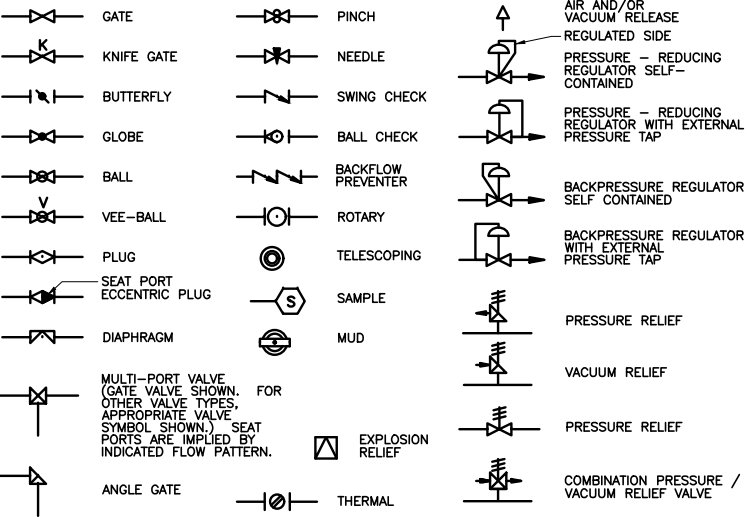
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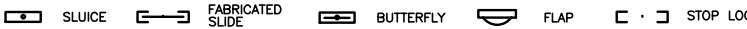
DATE 04/01/2025	UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01 P&ID LEGEND 2	SCALE N.T.S.
DESIGN S.T.S.		DWG. NO. P02
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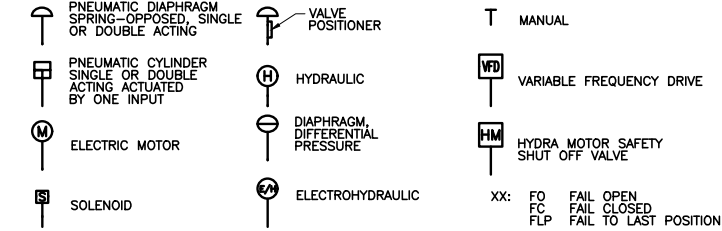
VALVE SYMBOLS



GATE SYMBOLS

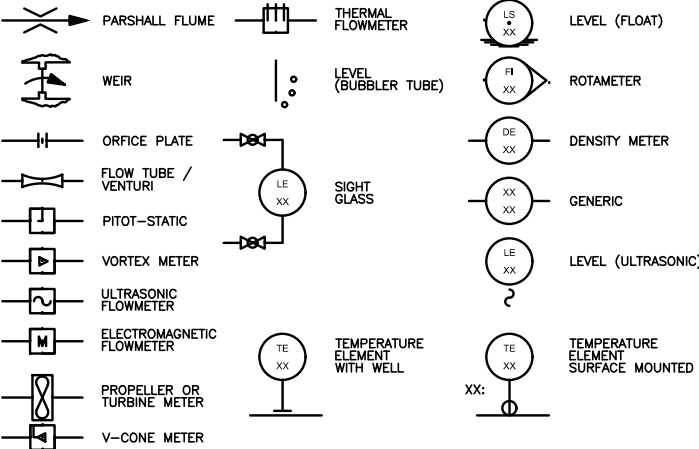


ACTUATOR SYMBOLS

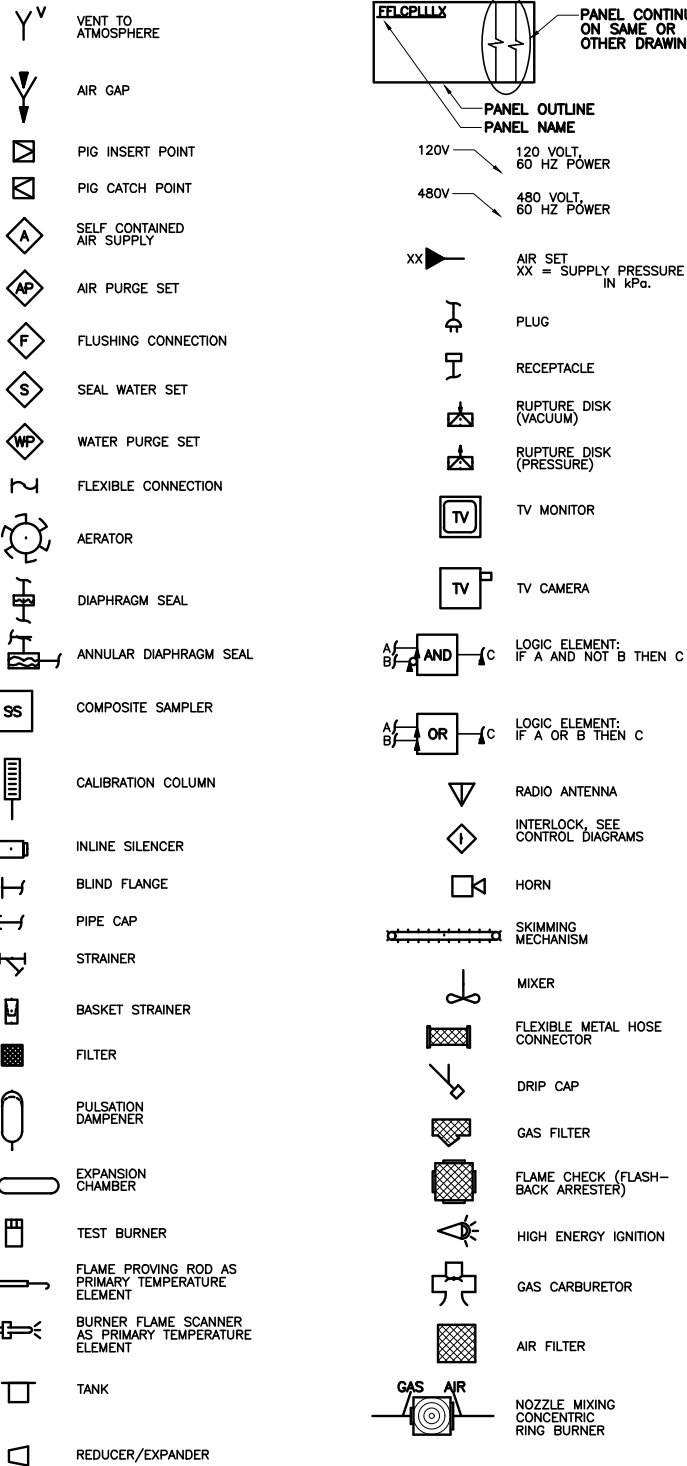


NOTE: ON LOSS OF PRIMARY POWER (PNEUMATIC, ELECTRICAL, OR HYDRAULIC)

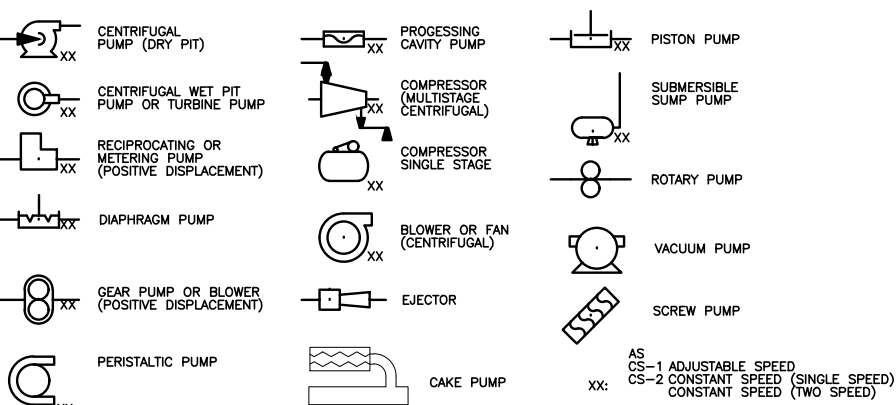
PRIMARY ELEMENT SYMBOLS



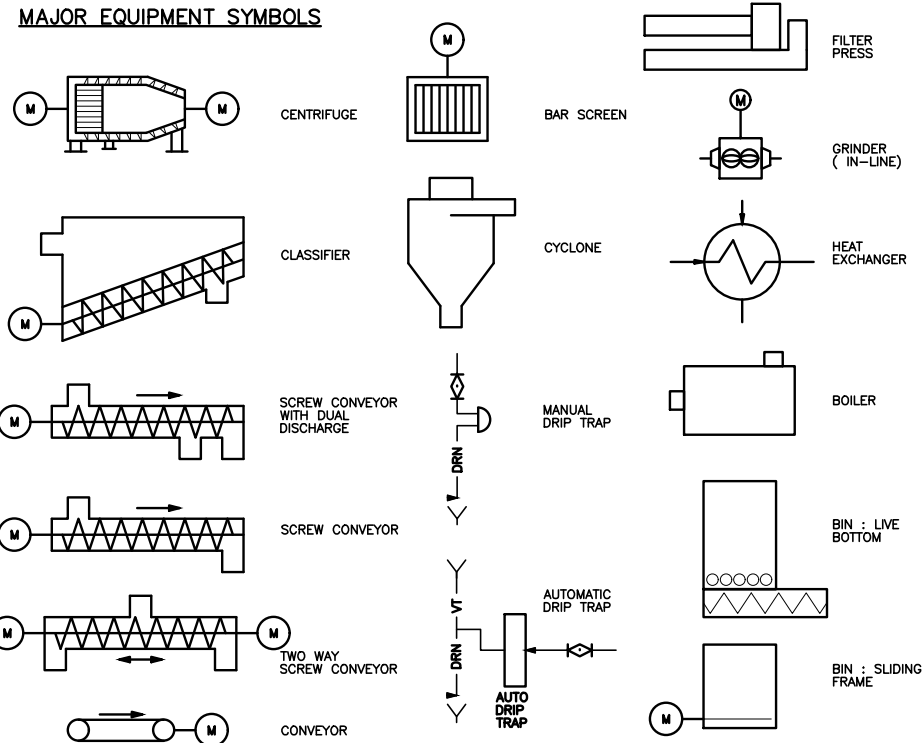
MISCELLANEOUS SYMBOLS



PUMP AND COMPRESSOR SYMBOLS



MAJOR EQUIPMENT SYMBOLS



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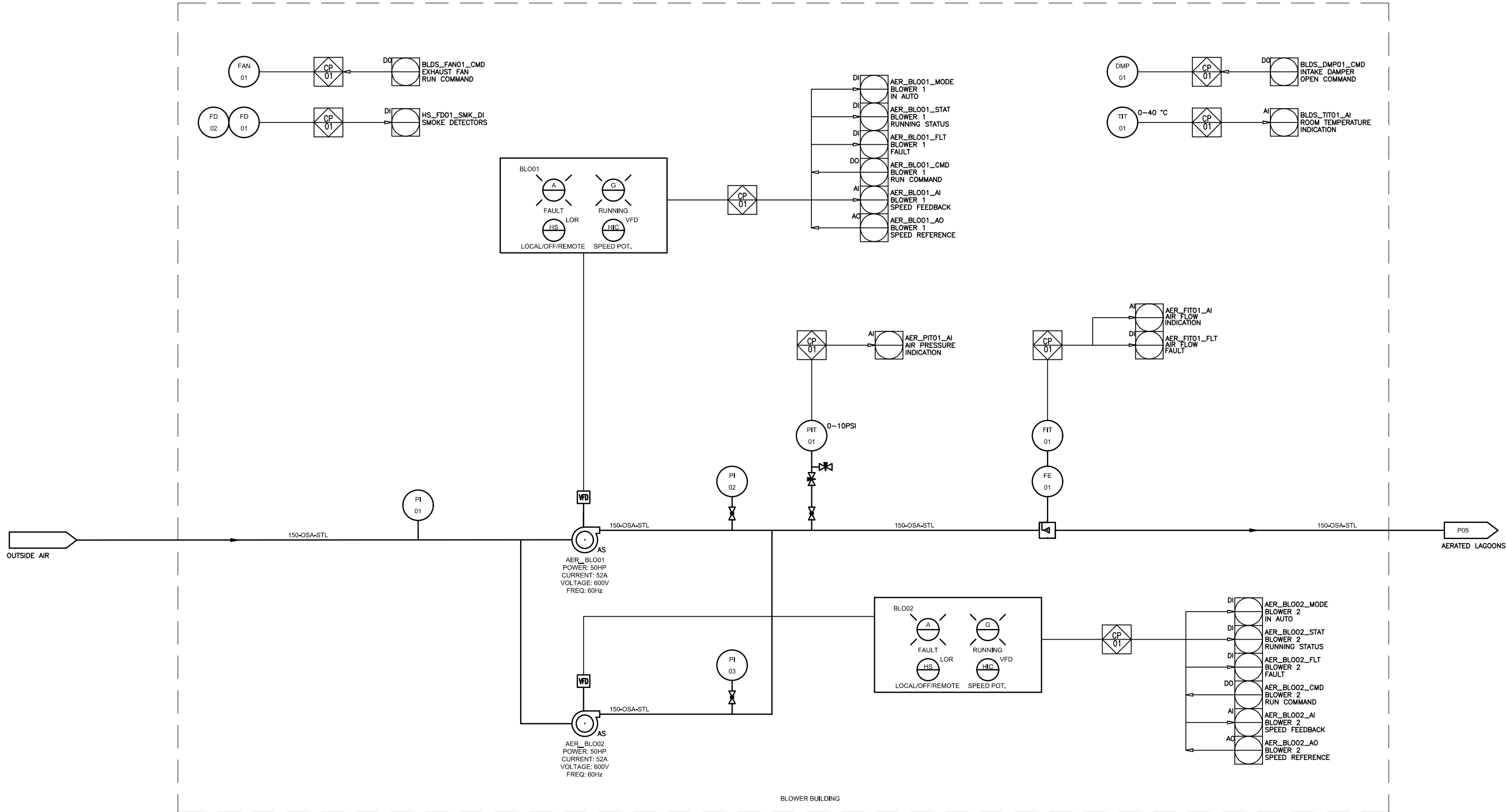


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UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
P&ID LEGEND 3

SCALE	N.T.S.
DWG. NO.	P03
CONT. NO.	2000-00
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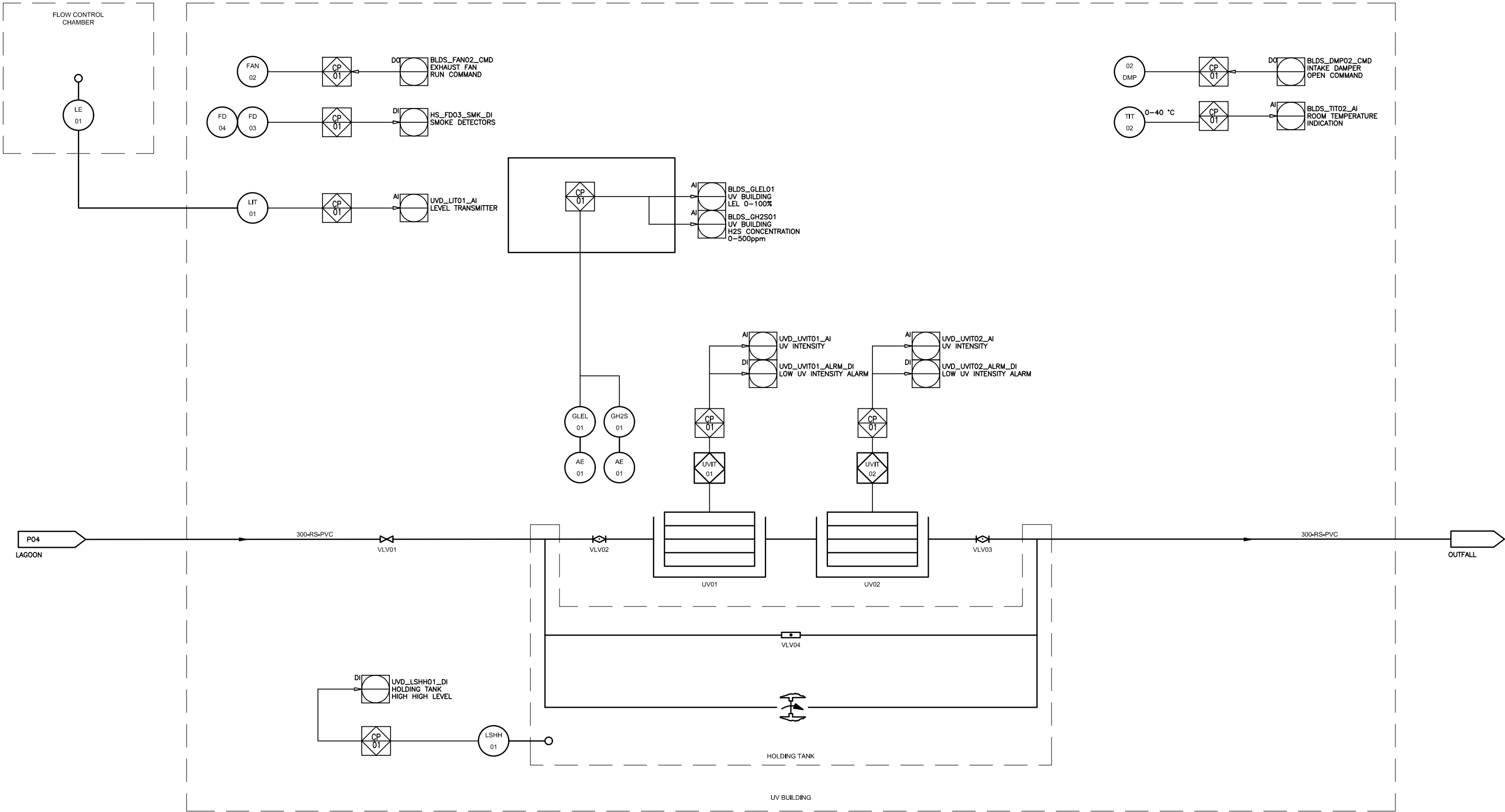


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UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
P&ID BLOWER BUILDING

SCALE	N.T.S.
DWG. NO.	P04
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UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
P&ID UV BUILDING

SCALE	N.T.S.
DWG. NO.	P05
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DRAWING NUMBER	DESCRIPTION
I01	DRAWING INDEX
I02	SYMBOL LEGEND
I03	I/O TERMINAL BLOCK DETAILS
I04	120VAC POWER RAIL DETAIL
I05	BLOWER BUILDING CONTROL PANEL WWTF_CP01 BILL OF MATERIALS
I06	NETWORK DIAGRAM
I07	BLOWER BUILDING CONTROL PANEL WWTF_CP01 EXTERIOR LAYOUT
I08	BLOWER BUILDING CONTROL PANEL WWTF_CP01 INTERIOR LAYOUT
I09	BLOWER BUILDING WWTF_CP01 120VAC WIRING DIAGRAM 1
I10	BLOWER BUILDING WWTF_CP01 120VAC WIRING DIAGRAM 2
I11	BLOWER BUILDING WWTF_CP01 24VDC WIRING DIAGRAM 1
I12	BLOWER BUILDING WWTF_CP01 24VDC WIRING DIAGRAM 2
I13	BLOWER BUILDING WWTF_CP01 COMPACTLOGIX RACK 0 SLOT 0-1: CPU & DIGITAL INPUT CARD
I14	BLOWER BUILDING WWTF_CP01 COMPACTLOGIX RACK 0 SLOT 2: DIGITAL INPUT CARD
I15	BLOWER BUILDING WWTF_CP01 COMPACTLOGIX RACK 0 SLOT 3: DIGITAL INPUT CARD
I16	BLOWER BUILDING WWTF_CP01 COMPACTLOGIX RACK 0 SLOT 4: DIGITAL OUTPUT CARD
I17	BLOWER BUILDING WWTF_CP01 COMPACTLOGIX RACK 0 SLOT 5: ANALOG INPUT CARD
I18	BLOWER BUILDING WWTF_CP01 COMPACTLOGIX RACK 0 SLOT 6: ANALOG INPUT CARD
I19	BLOWER BUILDING WWTF_CP01 COMPACTLOGIX RACK 0 SLOT 7: ANALOG OUTPUT CARD
I20	UV BUILDING MARSHALLING PANEL WWTF_JB01 BILL OF MATERIALS
I21	UV BUILDING MARSHALLING PANEL WWTF_JB01 EXTERIOR LAYOUT
I22	UV BUILDING MARSHALLING PANEL WWTF_JB01 INTERIOR LAYOUT
I23	UV BUILDING WWTF_JB01 MARSHALLING WIRING DIAGRAM 1
I24	UV BUILDING WWTF_JB01 MARSHALLING WIRING DIAGRAM 2
I25	INSTRUMENTATION DETAILS



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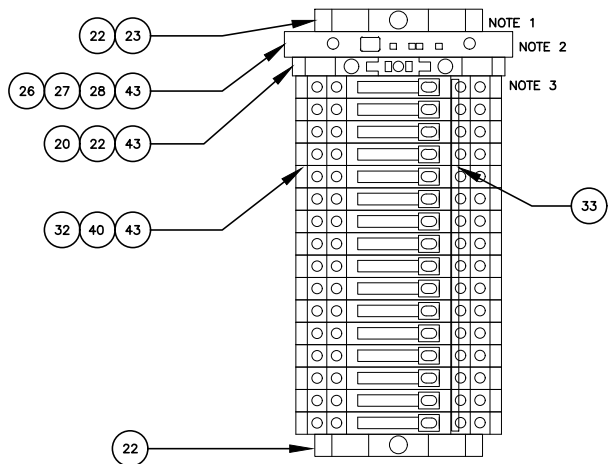
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UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01 DRAWING INDEX
SCALE N.T.S.
DWG. NO. I01
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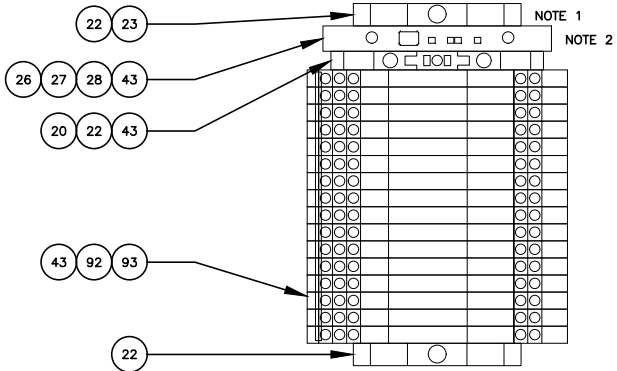
TYPICAL DIGITAL INPUT TERMINAL BLOCK DETAIL



NOTES:

- 1. DIGITAL INPUT TERMINAL BLOCK LABEL TO BE MARKED 'RX SLOT Y', WHERE X IS THE RACK NUMBER AND Y IS THE SLOT NUMBER. FOR EXAMPLE, R0 SLOT 10.
- 2. ALL FUSE TERMINALS OF THIS TYPE ARE TO BE MOUNTED SUCH THAT THE HINGE IS CLOSEST TO THE INTERNAL WIRING DUCT.
- 3. FOR ALL DIGITAL INPUT TERMINAL BLOCKS, THE BOTTOM LEVEL OF THE TWO LEVEL TERMINAL BLOCK IS TO BE THE COMMON 24VDC SUPPLY.
- 4. REFER TO BILL OF MATERIALS FOR ITEM NUMBER DESCRIPTIONS.

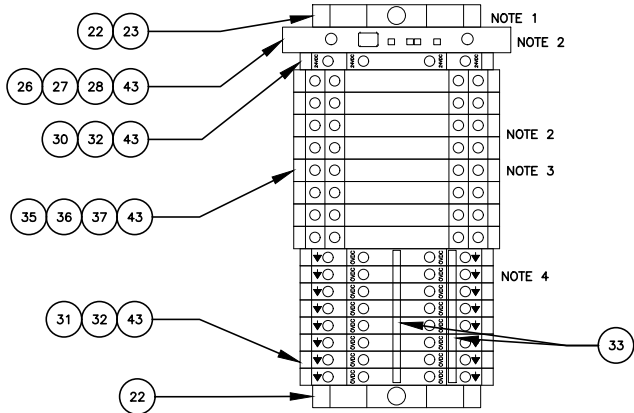
TYPICAL DIGITAL OUTPUT TERMINAL BLOCK DETAIL



NOTES:

- 1. DIGITAL OUTPUT TERMINAL BLOCK LABEL TO BE MARKED 'RX SLOT Y', WHERE X IS THE RACK NUMBER AND Y IS THE SLOT NUMBER. FOR EXAMPLE, R0 SLOT 10.
- 2. ALL FUSE TERMINALS OF THIS TYPE ARE TO BE MOUNTED SUCH THAT THE HINGE IS CLOSEST TO THE INTERNAL WIRING DUCT.
- 3. REFER TO BILL OF MATERIALS FOR ITEM NUMBER DESCRIPTIONS.

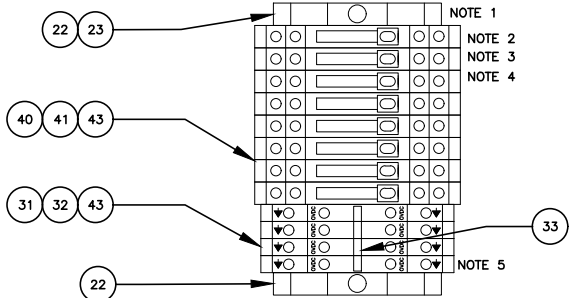
TYPICAL ANALOG INPUT TERMINAL BLOCK DETAIL



NOTES:

- 1. ANALOG INPUT TERMINAL BLOCK LABEL TO BE MARKED 'RX SLOT Y', WHERE X IS THE RACK NUMBER AND Y IS THE SLOT NUMBER. FOR EXAMPLE, R0 SLOT 10.
- 2. ALL FUSE TERMINALS OF THIS TYPE ARE TO BE MOUNTED SUCH THAT THE HINGE IS CLOSEST TO THE INTERNAL WIRING DUCT.
- 3. FOR ALL ANALOG INPUT TERMINAL BLOCKS, THE TOP LEVEL OF THE STANDARD TWO LEVEL TERMINAL BLOCK IS TO BE THE DC POWER SUPPLY COMMON (0VDC). THE BOTTOM LEVEL IS TO BE USED FOR ANALOG SHIELD CONNECTIONS AND CONNECTED TO THE ISOLATED GROUND BAR.
- 4. REFER TO BILL OF MATERIALS FOR ITEM NUMBER DESCRIPTIONS.

TYPICAL ANALOG OUTPUT TERMINAL BLOCK DETAIL



NOTES:

- 1. ANALOG OUTPUT TERMINAL BLOCK LABEL TO BE MARKED 'RX SLOT Y', WHERE X IS THE RACK NUMBER AND Y IS THE SLOT NUMBER. FOR EXAMPLE, R0 SLOT 10.
- 2. ALL DISCONNECT TERMINALS OF THIS TYPE ARE TO BE MOUNTED SUCH THAT THE HINGE IS CLOSEST TO THE INTERNAL WIRING DUCT.
- 3. FOR LEVEL (FUSE) IS TO BE THE "+" SIGNAL, BOTTOM LEVEL IS TO BE THE "-" SIGNAL.
- 4. FOR ALL ANALOG OUTPUT TERMINAL BLOCKS, THE TOP AND BOTTOM LEVEL OF THE TWO LEVEL TWO LEVEL TERMINAL BLOCK IS TO BE USED FOR ANALOG SHIELD CONNECTIONS AND CONNECTED TO THE ISOLATED GROUND BAR.
- 5. REFER TO BILL OF MATERIALS FOR ITEM NUMBER DESCRIPTIONS.

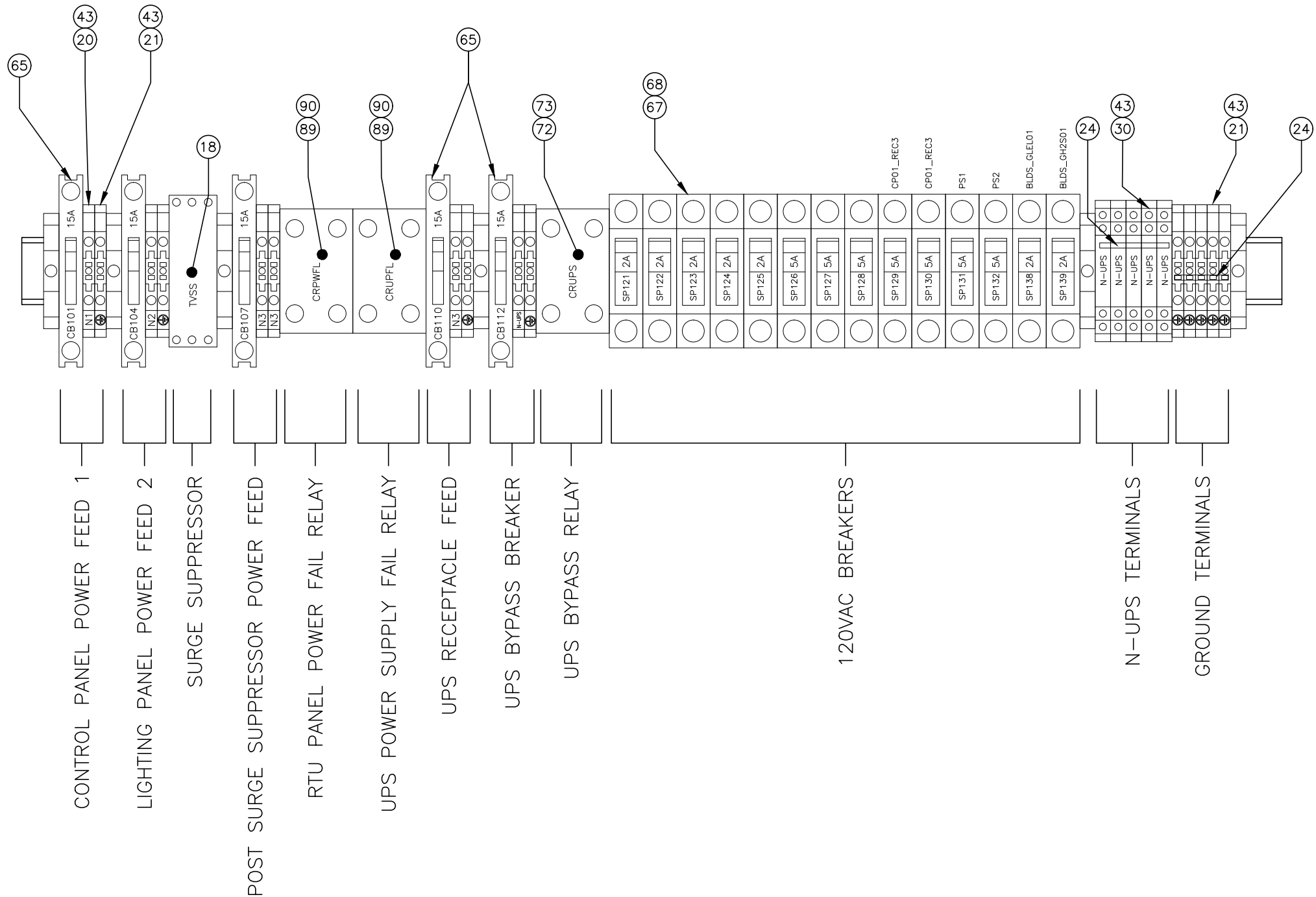


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UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01 I/O TERMINAL BLOCK DETAILS
SCALE N.T.S.
DWG. NO. 103
CONT. NO. 2000-00
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NOTES:

1. ALL FUSE TERMINALS ARE TO BE MOUNTED SUCH THAT THE HINGE IS ON THE LEFT. IN CASES WHERE A FUSE TERMINAL IS MOUNTED VERTICALLY, THE HINGE SHALL BE AT THE BOTTOM.
2. ALL CIRCUIT BREAKERS ARE TO BE MOUNTED SUCH THAT THEY ARE ON WHEN THE SWITCH IS POINTING TOWARD THE INTERNAL WIRING DUCT.
3. REFER TO BILL OF MATERIALS FOR ITEM NUMBER DESCRIPTIONS.



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UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
120VAC POWER RAIL DETAIL

SCALE N.T.S.
DWG. NO. 104
CONT. NO. 2000-00
SHEET NO. 04 OF 25



ITEM	TAG	QTY	PART NUMBER	DESCRIPTION	MANUFACTURER
1		1	1418SN4SSM16	RTU PANEL ENCLOSURE, NEMA 12 STAINLESS STEEL, 48"X 36"X 16", INCLUDES BACKPLATE	HAMMOND
2					
3					
4	DSW1	1	A-20GQ-B7-K	DOOR SWITCH	OMRON
5					
6	REC3	1	5500521:CSA	COMBO RJ45/120VAC RECEPTACLE	PHOENIX CONTACT
7		1	MHK2	HANDLE KIT FOR NEMA 12 PANEL, LOCKING AND PAD LOCKING HANDLE	HAMMOND
8					
9					
10					
11	PL1	1	800T-QTH2G	POWER ON LIGHT, GREEN, PUSH TO TEST, 120VAC	ALLEN BRADLEY
12	PL2	1	800T-QTH2B	COMMUNICATIONS OK LIGHT, BLUE, PUSH TO TEST, 24VDC	ALLEN BRADLEY
13	PL3	1	800T-QTH2A	GENERAL ALARM LIGHT, AMBER, PUSH TO TEST, 24VDC	ALLEN BRADLEY
14					
15	UPS01	1	9SX1500	UPS, POWERWARE 9SX SERIES, 1500VA	EATON
16		1	NETWORK-M3	UPS, ETHERNET COMM. CARD	EATON
17		10	1050000000	TERMINAL BLOCK END PLATE WAP 2.5-10	WEIDMULLER
18	TVSS01	1	2907918	SURGE SUPPRESSOR, 120VAC, 15A	PHOENIX CONTACT
19	HI/LO	1	G01175.0-00	HI/LO TEMPERATURE SWITCH	GENESIS
20		20	1020100000	TERMINAL BLOCK, WDU 4	WEIDMULLER
21		10	1010100000	GROUND TERMINAL BLOCK, GREEN YELLOW, WPE 4	WEIDMULLER
22		40	1061200000	TERMINAL BLOCK END BRACKET, WEW 35/2	WEIDMULLER
23		12	1806120000	TERMINAL BLOCK END BRACKET MARKER, EM 8/30	WEIDMULLER
24		1	1909020000	PLUG IN JUMPER, 20 POLE, YELLOW, FOR WDU 4	WEIDMULLER
25					
26		30	1880410000	FUSED TERMINAL BLOCK, 10-60V AC/DC, LED INDICATOR, WSI 4/2/LD	WEIDMULLER
27		10	1880450000	FUSED TERMINAL BLOCK END PLATE, WAP WSI 4/2	WEIDMULLER
28		40	AGC-2	FUSE, 2A (INCLUDES SPARES)	BUSSMAN
29		10	AGC-5	FUSE, 5A (INCLUDES SPARES)	BUSSMAN
30		30	1022300000	TERMINAL BLOCK, TWO LEVEL, SCREW CLAMPS, TOP AND BOTTOM LEVELS CONNECTED, WDK2.5V	WEIDMULLER
31		72	1041100000	TERMINAL BLOCK, TWO LEVEL, SCREW CLAMPS, WDK 2.5 ZQV	WEIDMULLER
32		16	1059100000	END PLATE FOR DI TERMINAL BLOCK, TWO LEVEL, WDK 2.5 ZQV	WEIDMULLER
33		8	1909000000	PLUG IN JUMPERS, 20-POLE, FOR WDK 2.5 ZQV	WEIDMULLER
34					
35		16	9532440000	AI TERMINAL BLOCK, TWO LEVEL FUSED, SCREW CLAMPS, KDKS 1/35 DB	WEIDMULLER
36		2	9532470000	END PLATE FOR AI TERMINAL BLOCK, TWO LEVEL FUSED, SCREW CLAMPS, KDKS 1/35 DB	WEIDMULLER
37		56	GMA-500-R	FUSE, 0.5A, FAST ACTING, FOR AI FUSED TERMINALS (INCLUDES 20 SPARES)	BUSSMAN
38		64	1609900000	AI TERMINAL BLOCK MARKER FOR KDKS 1/35 DB	WEIDMULLER
39					
40		8	0687460000	TERMINAL BLOCK, TWO LEVEL, DISCONNECTING, SCREW CLAMPS, DKT4	WEIDMULLER
41		1	0687460000	END PLATE FOR AO TERMINAL BLOCK, TWO LEVEL, DISCONNECTING, SCREW CLAMPS, DKT5	WEIDMULLER
42					
43		800	1609900000	W SERIES TERMINAL BLOCK MARKER, WS 12/6 MC, 12mm LENGTH, WHITE	WEIDMULLER
44			F2X4IB6	WIRING DUCT, 50mm WIDE X 100mm HIGH, NARROW SLOT, INTRINSIC BLUE	PANDUIT
45			F3X4LG6	WIRING DUCT, 75mm WIDE X 100mm HIGH, NARROW SLOT, LIGHT GRAY	PANDUIT
46			F2X4LG6	WIRING DUCT, 50mm WIDE X 100mm HIGH, NARROW SLOT, LIGHT GRAY	PANDUIT
47			F1X4LG6	WIRING DUCT, 25mm WIDE X 100mm HIGH, NARROW SLOT, LIGHT GRAY	PANDUIT
48		1	7914760001	DIN RAIL MOUNT SPARE FUSE DRAWER	WEIDMULLER
49		2	PK9GTACP	GROUND BAR, COPPER, 9 TERMINALS	SQUARE D
50		2	04154-02	STANDOFF, HEXAGONAL, RED, 25.4mm HIGH, 12-24 UNC x .375" LONG EXTERNAL STUD	TELECT

ITEM	TAG	QTY	PART NUMBER	DESCRIPTION	MANUFACTURER
51		2	5069-RTB64-SCREW	5069 COMPACT I/O POWER TERMINAL RTB KIT	ALLEN BRADLEY
52		1	5069-L320ER	COMPACTLOGIX PROCESSOR, c/w ETHERNET PORT	ALLEN BRADLEY
53		3	5069-IB16	COMPACTLOGIX 16 POINT 24VDC DIGITAL INPUT CARD	ALLEN BRADLEY
54		1	5069-OW16	COMPACTLOGIX 16 POINT DIGITAL OUTPUT CARD	ALLEN BRADLEY
55		2	5069-IF8	COMPACTLOGIX 8 POINT ANALOG INPUT CARD	ALLEN BRADLEY
56		1	5069-OF8	COMPACTLOGIX 8 POINT ANALOG OUTPUT CARD	ALLEN BRADLEY
57		10	5069-RTB18-SCREW	5069 COMPACT I/O TERMINAL RTB KIT	ALLEN BRADLEY
58					
59		1	5069-ECR	COMPACTLOGIX END CAP	ALLEN BRADLEY
60			514510000	DIN MOUNTING RAIL	WEIDMULLER
61		1	1019710	FDX 20 SERIES 6 PORT LC DUPLEX FIBRE OPTIC DISTRIBUTOR C/W ACCESSORIES AS REQUIRED	PHOENIX CONTACT
62		3	1115636	LC TO LC OS2 FIBRE PATCH CABLE	PHOENIX CONTACT
63					
64					
65	CB101,104,107,110,112	10	1492-MCAA115	CIRCUIT BREAKER, PRIMARY, 15A	ALLEN BRADLEY
66					
67	SP126-131	14	1492-SPM1B050	CIRCUIT BREAKER, SUPPLEMENTARY, 5A	ALLEN BRADLEY
68	SP121-125	10	1492-SPM1B020	CIRCUIT BREAKER, SUPPLEMENTARY, 2A	ALLEN BRADLEY
69					
70					
71					
72	CRUPS	1	100C16D200	CONTACTOR, 110VAC, 16A, 4 POLE	ALLEN BRADLEY
73	CRUPS	1	100-FA11	100-C AUXILIARY CONTACT BLOCK, FRONT MOUNTING	ALLEN BRADLEY
74					
75	UPS REC1	2	BC1110	RECEPTACLE BOX, 1 GANG	IBERVILLE
76	UPS REC1	1	NP7	1 GANG, 1 SIMPLEX RECEPTACLE WALLPLATE, BROWN	HUBBELL
77	UPS REC1	1	HBL5251	RECEPTACLE, SIMPLEX, 15A, BROWN	HUBBELL
78					
79					
80		1	LMR-195	1m INDOOR COAXIAL CABLE C/W MALE SMA TO MALE N-TYPE	TIMES MICROWAVE
81		1	LMR-400	10m OUTDOOR COAXIAL CABLE C/W UV RESISTANT JACKET, MALE N-TYPE TO MALE N-TYPE	TIMES MICROWAVE
82		1	LP-BTR-NFF	SURGE ARRESTOR FEMALE N-TYPE CONNECTIONS	TIMES MICROWAVE
83		1	ANT-5G-OMNI-OUT-N	OUTDOOR 5G OMNI-DIRECTIONAL OUTDOOR ANTENNA	CISCO
84		1	P-LTEA-EA	CELLULAR PLUGGABLE INTERFACE MODULE	CISCO
85		1	IR1101-NA-K9	INDUSTRIAL INTEGRATED 1101 ROUTER WITH DIN-RAIL KIT	CISCO
86		1	IE-3300-8T2S	CISCO CATALYST IE3300 RUGGED SERIES	CISCO
87	PS1, PS2	2	2866763	DC POWER SUPPLY, QUINT SFB SERIES, 10A OUTPUT	PHOENIX CONTACT
88	DIO1	1	2866514	DC POWER SUPPLY REDUNDANCY MODULE, 12-24VDC, 2X10A, 1X20A RATED	PHOENIX CONTACT
89	CRUPFL,CRPWRL,CRPDR	3	700-HN153	700-HB RELAY BASE	ALLEN BRADLEY
90	CRUPFL,CRPWRL	2	700-HB33A1-4	RELAY, 120VAC COIL, 3PDT, 15A CONTACT RATING, LED STATUS INDICATION	ALLEN BRADLEY
91	CRPDR	1	700-HB33Z24-4	RELAY, 24VDC COIL, 3PDT, 15A CONTACT RATING, LED STATUS INDICATION	ALLEN BRADLEY
92	CR0701-CR0717	16	1122770000	RELAY & BASE, 24VDC COIL, 3PDT, 6A CONTACT RATING, LED STATUS INDICATION	WEIDMULLER
93	CR0701-CR0717	2	1909120000	PLUG IN CROSS CONNECTION FOR DO RELAYS	WEIDMULLER
94		4	A3L980-03-RED-S	ETHERNET PATCH CABLE, CAT6, RED, SNAGLESS, 3FT (RADIO, PAC)	BELKIN
95		4	A3L980-07-RED-S	ETHERNET PATCH CABLE, CAT6, RED, SNAGLESS, 7FT (DOOR PORT, OIT)	BELKIN
96		2	A3L980-10-RED-S	ETHERNET PATCH CABLE, CAT6, RED, SNAGLESS, 10FT (UPS)	BELKIN
97		1	P-LTEA-EA	CELLULAR PLUGGABLE INTERFACE MODULE	CISCO
98					
99		AS REQ	PSHT-250-175-WT	HEAT SHRINK WIRE LABELS, PERMASLEEVE, 1.765"W x 0.439"H	BRADY
100			TF-SBB-012-RN5N	OS2 FIBER OPTIC CABLE 12 STRAND	BELDEN



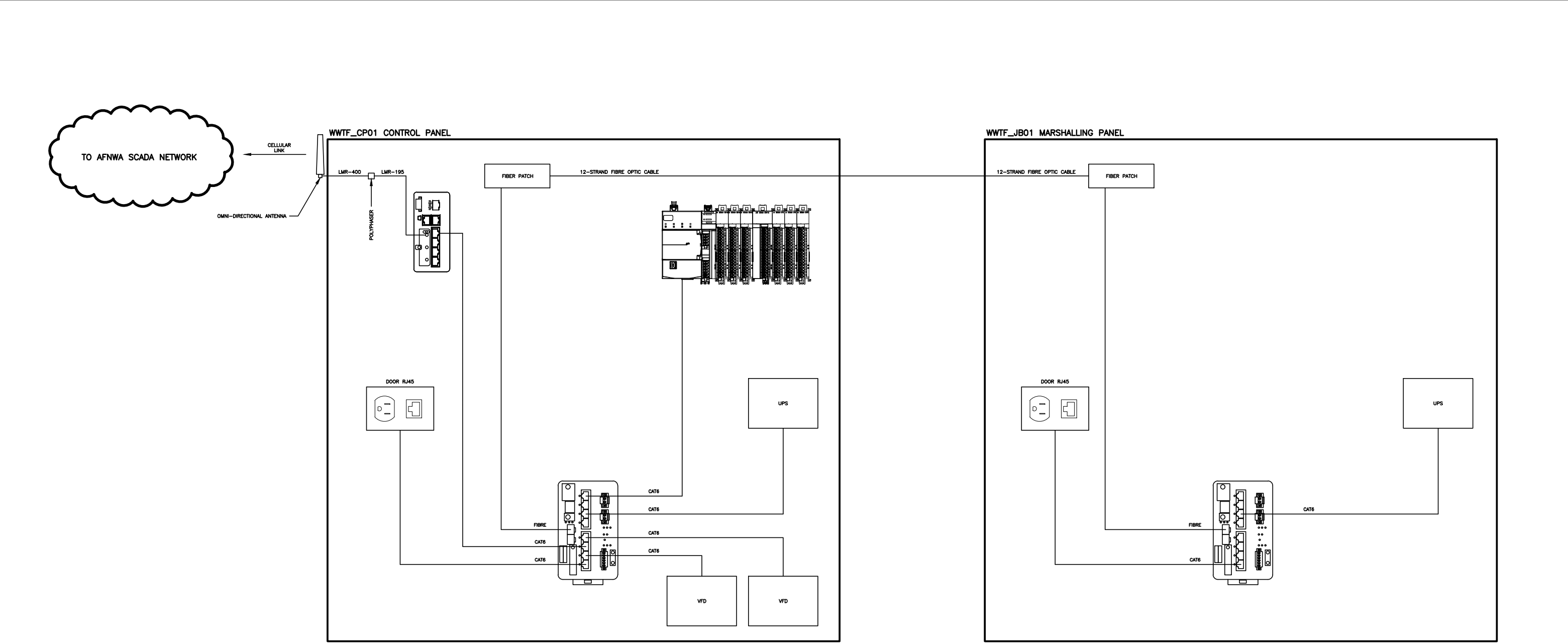
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UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
BLOWER BUILDING CONTROL  
PANEL WWTF\_CP01  
BILL OF MATERIALS

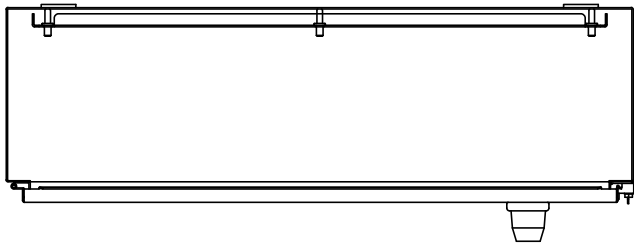
SCALE N.T.S.
DWG. NO. 105
CONT. NO. 2000-00
SHEET NO. 05 OF 25



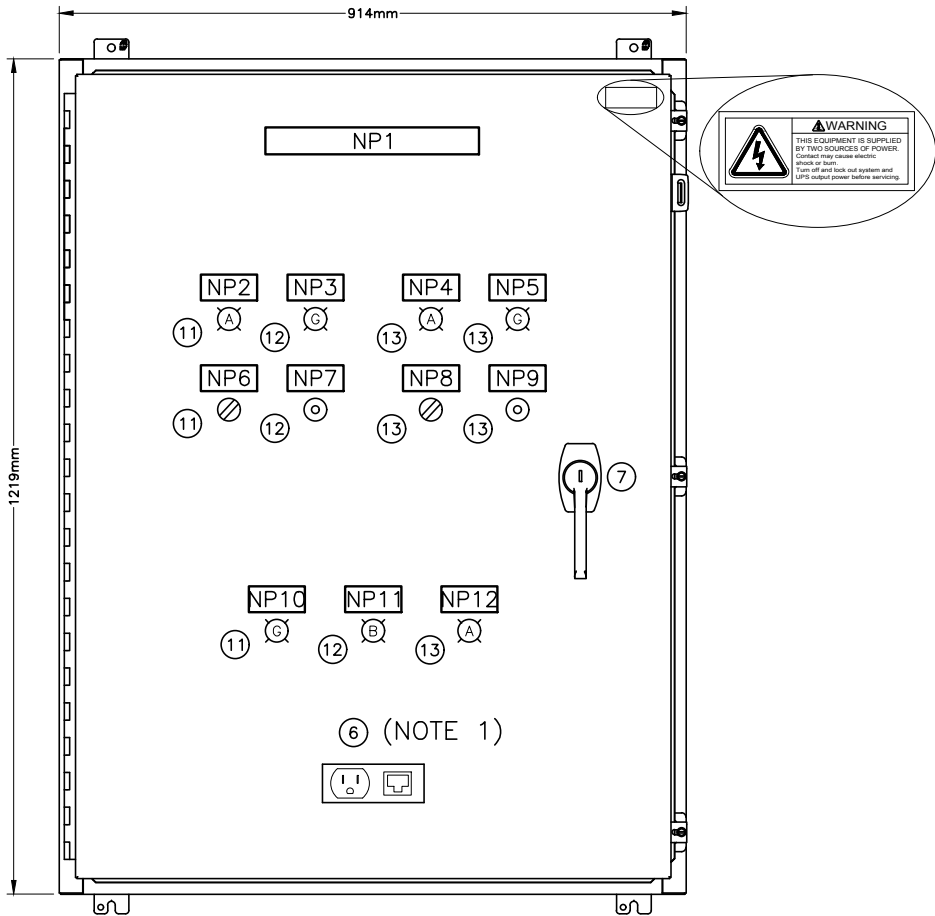
ETHERNET SWITCH STANDARD PORT ASSIGNMENTS	
SWITCH PORT NUMBER	DEVICE
GE 1/1	BUILDING TO BUILDING CONNECTION
GE 1/2	SPARE
FE 1/3	PLC
FE 1/4	SPARE
FE 1/5	UPS
FE 1/6	SPARE
FE 1/7	VFD
FE 1/8	ROUTER CONNECTION
FE 1/9	VFD
FE 1/10	DOOR PORT

ETHERNET SWITCH STANDARD PORT ASSIGNMENTS	
SWITCH PORT NUMBER	DEVICE
GE 1/1	BUILDING TO BUILDING CONNECTION
GE 1/2	SPARE
FE 1/3	SPARE
FE 1/4	SPARE
FE 1/5	UPS
FE 1/6	SPARE
FE 1/7	SPARE
FE 1/8	SPARE
FE 1/9	SPARE
FE 1/10	DOOR PORT

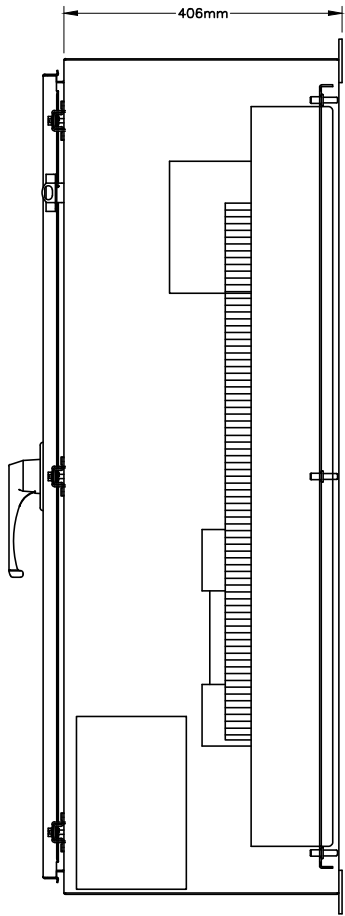




CONTROL PANEL LAYOUT TOP VIEW



CONTROL PANEL LAYOUT FRONT VIEW



CONTROL PANEL LAYOUT RIGHT SIDE VIEW

NAMEPLATE LEGEND		
NAMEPLATE	LINE 1	LINE 2
NP1	6NQ_WWTF_CP01	CONTROL PANEL
NP2	BLOWER 1	FAULT
NP3	BLOWER 1	RUNNING
NP4	BLOWER 2	FAULT
NP5	BLOWER 2	RUNNING
NP6	BLOWER 1	LOCAL/OFF/AUTO
NP7	BLOWER 1	SPEED REFERENCE
NP8	BLOWER 2	LOCAL/OFF/AUTO
NP9	BLOWER 2	SPEED REFERENCE
NP10	POWER	OK
NP11	COMM	OK
NP12	GENERAL	ALARM

NOTES:

- RJ45/120V RECEPTACLE IS TO BE INSTALLED ON THE FRONT OF THE RTU PANEL.
- ALL FIELD WIRING IS TO ENTER THE PANEL FROM THE BOTTOM.
- REFER TO BILL OF MATERIALS FOR ITEM NUMBER DESCRIPTIONS.
- CONSULTANT TO CHANGE TO NEMA4X SS INSULATED AND HEATED PANEL COMPLETE WITH INNER AND OUTER DOOR TO PROTECT INNER DOOR MOUNTED COMPONENTS FROM THE ELEMENTS WHEN PANEL IS TO BE INSTALLED OUTDOORS.



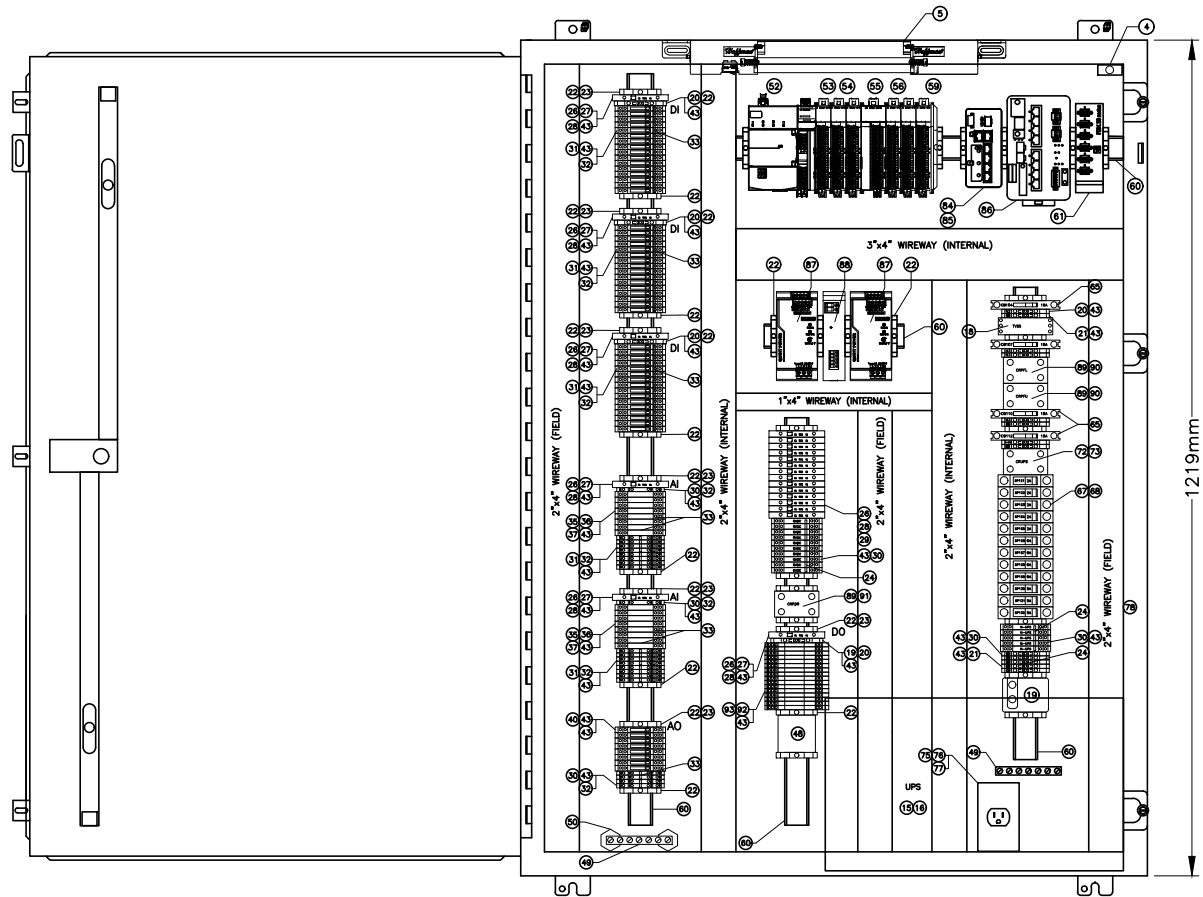
No.	DATE	REVISIONS	BY
0.0	APR 10/25	ISSUED FOR TENDER	GP



DATE 04/01/2025
DESIGN S.T.S.
DRAWN S.T.S.
CHECKED Z.T.S.

UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
BLOWER BUILDING CONTROL  
PANEL WWTF\_CP01  
EXTERIOR LAYOUT

SCALE N.T.S.
DWG. NO. 107
CONT. NO. 2000-00
SHEET NO. 07 OF 25



NOTES:

1. ALL FUSE TERMINALS ARE TO BE MOUNTED SUCH THAT THE HINGE IS CLOSEST TO THE INTERNAL WIRING DUCT.
2. ALL CIRCUIT BREAKERS ARE TO BE MOUNTED SUCH THAT THEY ARE ON WHEN THE SWITCH IS POINTING TOWARD THE INTERNAL WIRING DUCT.
3. USE A RIGHT ANGLE CONNECTOR TO CONNECT THE ANTENNA TO THE RADIO.
4. REFER TO BILL OF MATERIALS FOR ITEM NUMBER DESCRIPTIONS.
5. INDOOR HIGH TEMPERATURE ONLY, OUTDOOR PANEL DUAL TEMPERATURE REQUIRED.



No.	DATE	REVISIONS	BY
0.0	APR 10/25	ISSUED FOR TENDER	GP

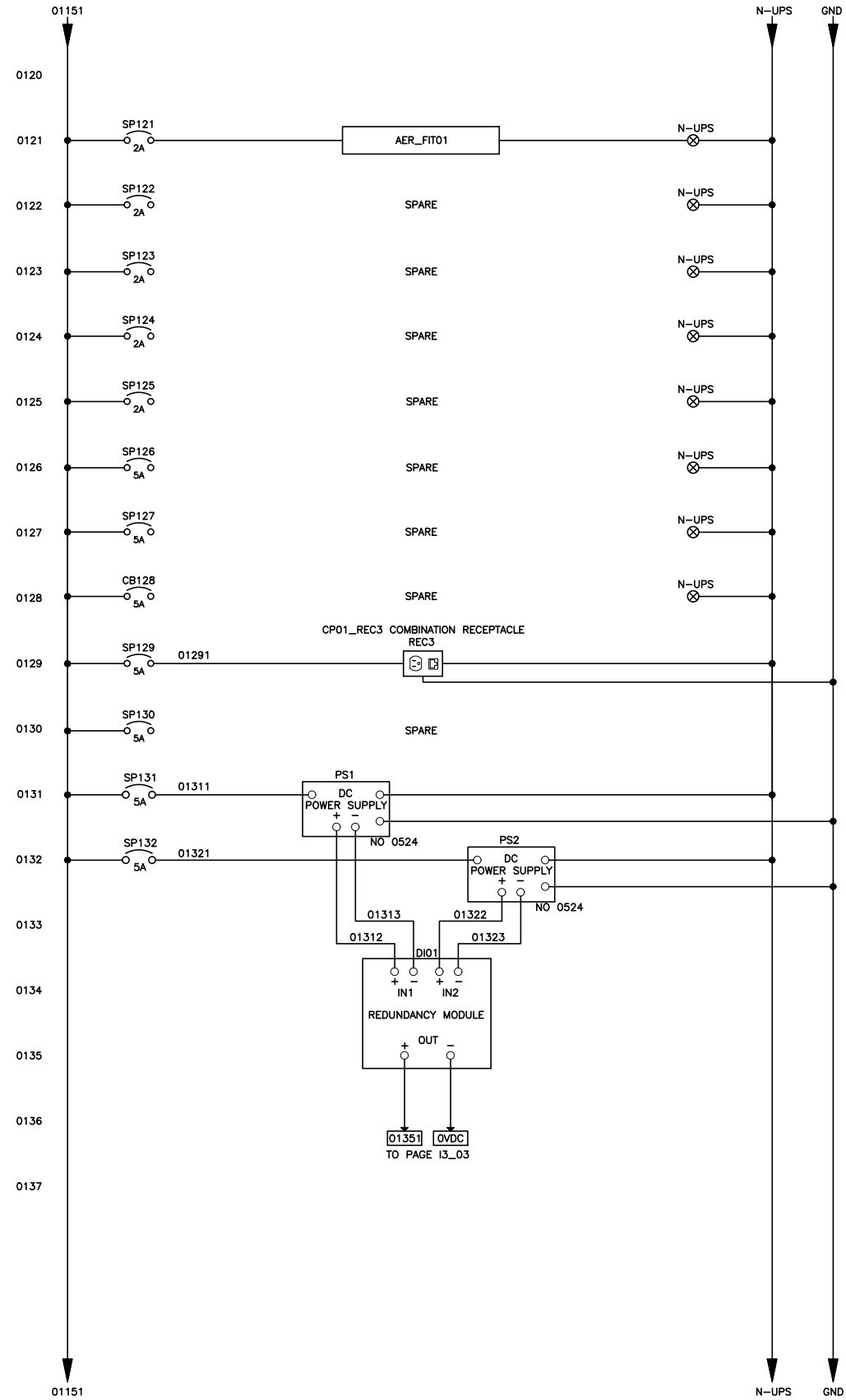
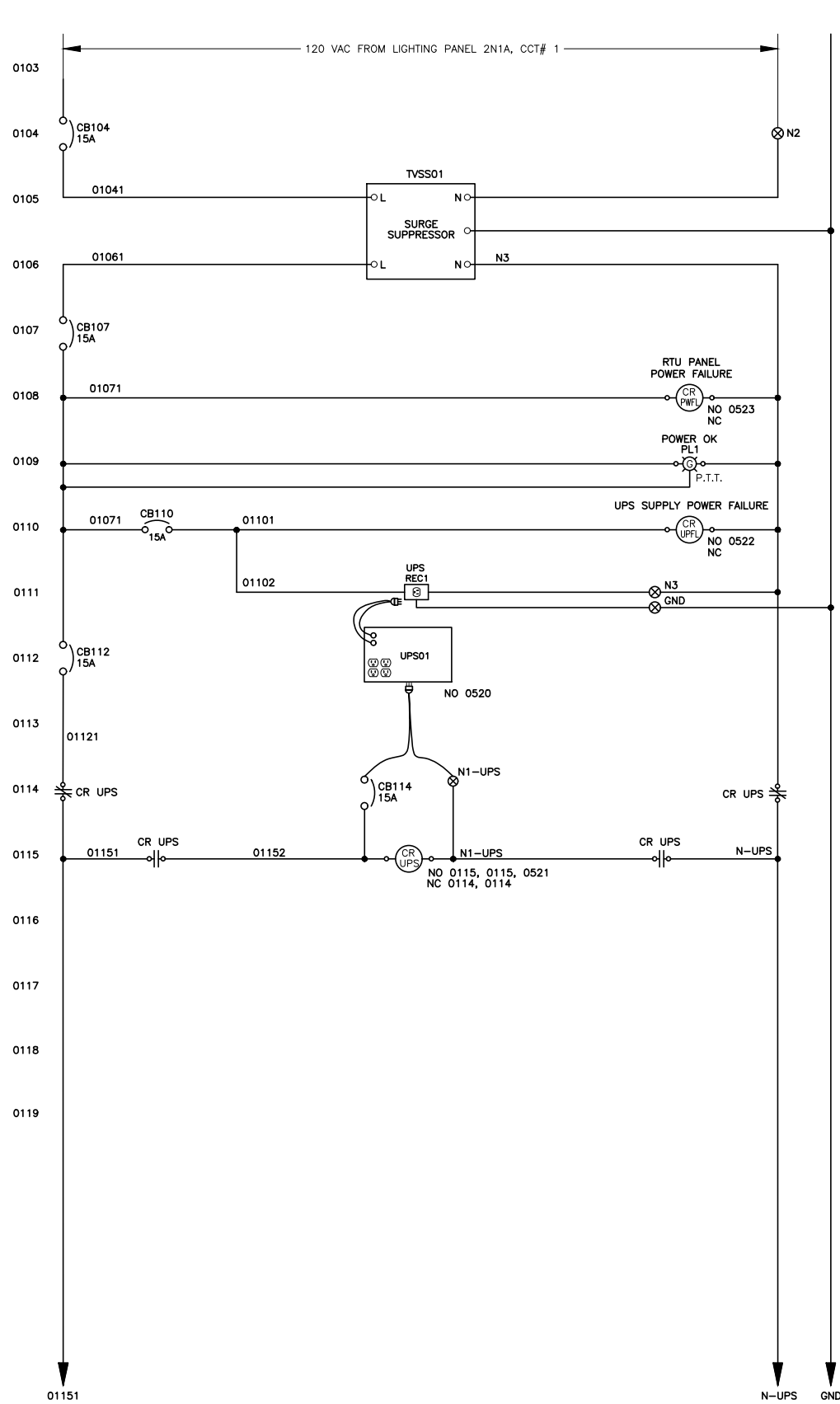


DATE	04/01/2025
DESIGN	S.T.S.
DRAWN	S.T.S.
CHECKED	Z.T.S.

UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
BLOWER BUILDING CONTROL  
PANEL WWTF\_CP01  
INTERIOR LAYOUT

SCALE	N.T.S.
DWG. NO.	108
CONT. NO.	2000-00
SHEET NO.	08 OF 25





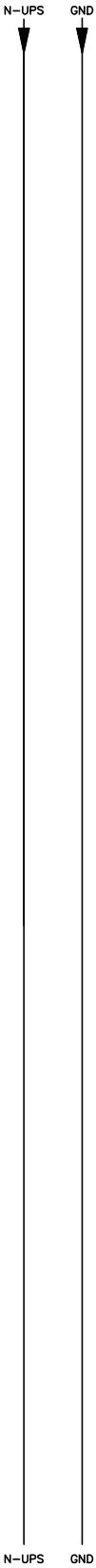
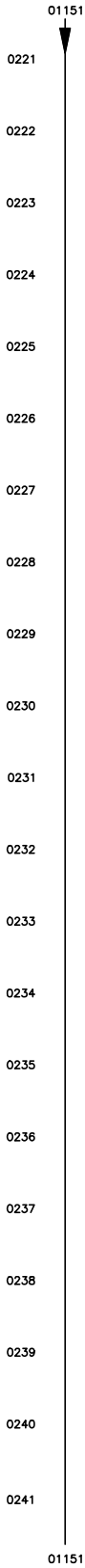
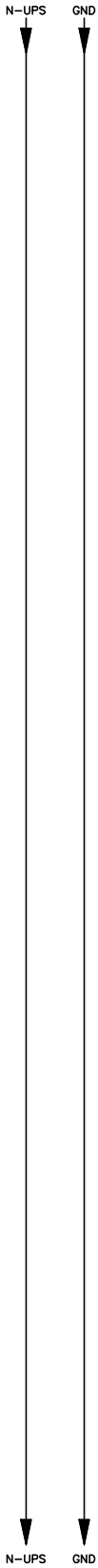
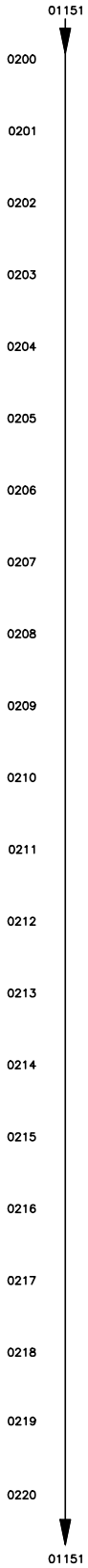
No.	DATE	REVISIONS	BY
0.0	APR 10/25	ISSUED FOR TENDER	GP



DATE	04/01/2025
DESIGN	S.T.S.
DRAWN	S.T.S.
CHECKED	Z.T.S.

UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
BLOWER BUILDING CONTROL  
PANEL WWTF\_CP01 120VAC  
WIRING DIAGRAM 1

SCALE	N.T.S.
DWG. NO.	109
CONT. NO.	2000-00
SHEET NO.	09 OF 25



No.	DATE	REVISIONS	BY
0.0	APR 10/25	ISSUED FOR TENDER	GP

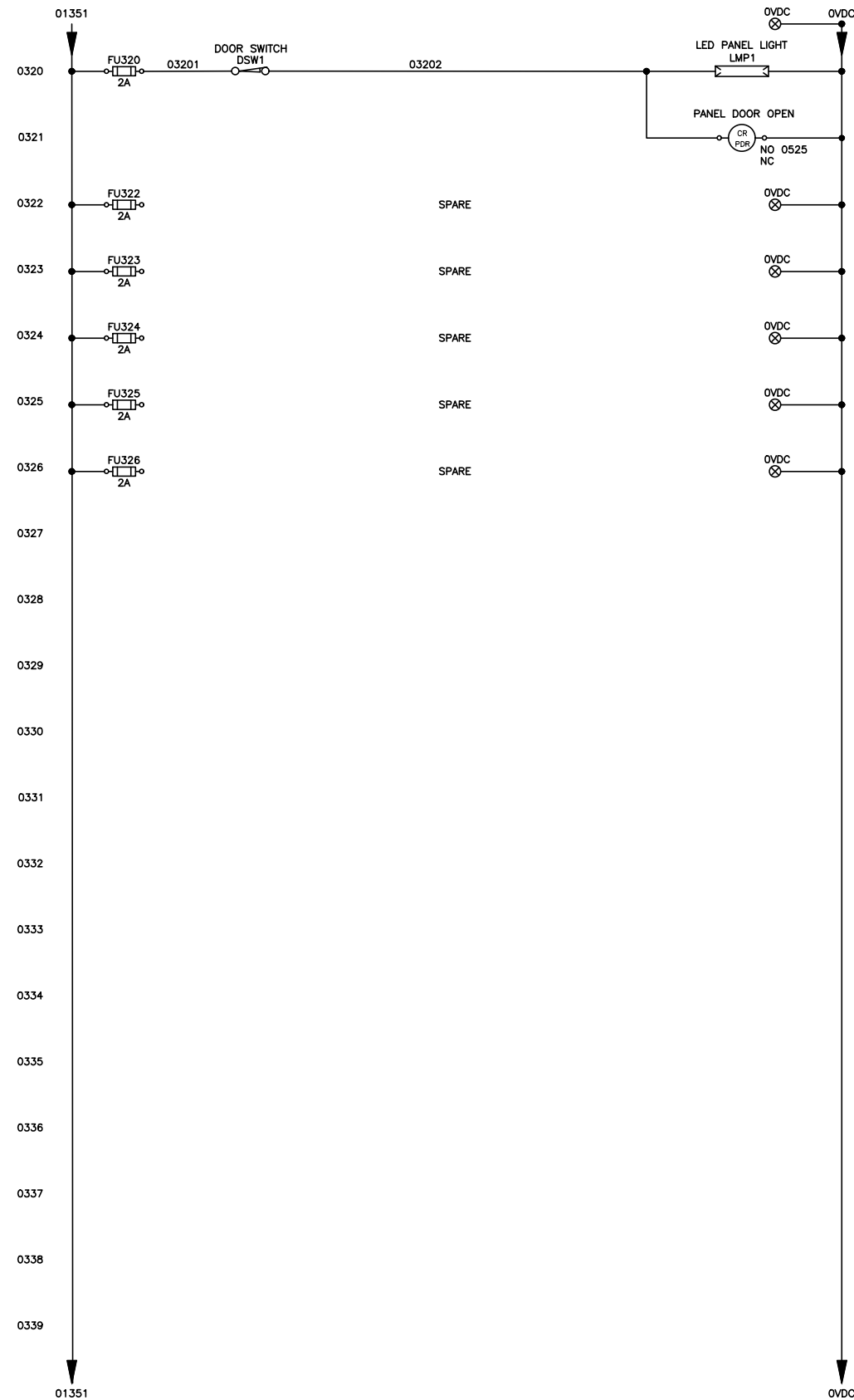
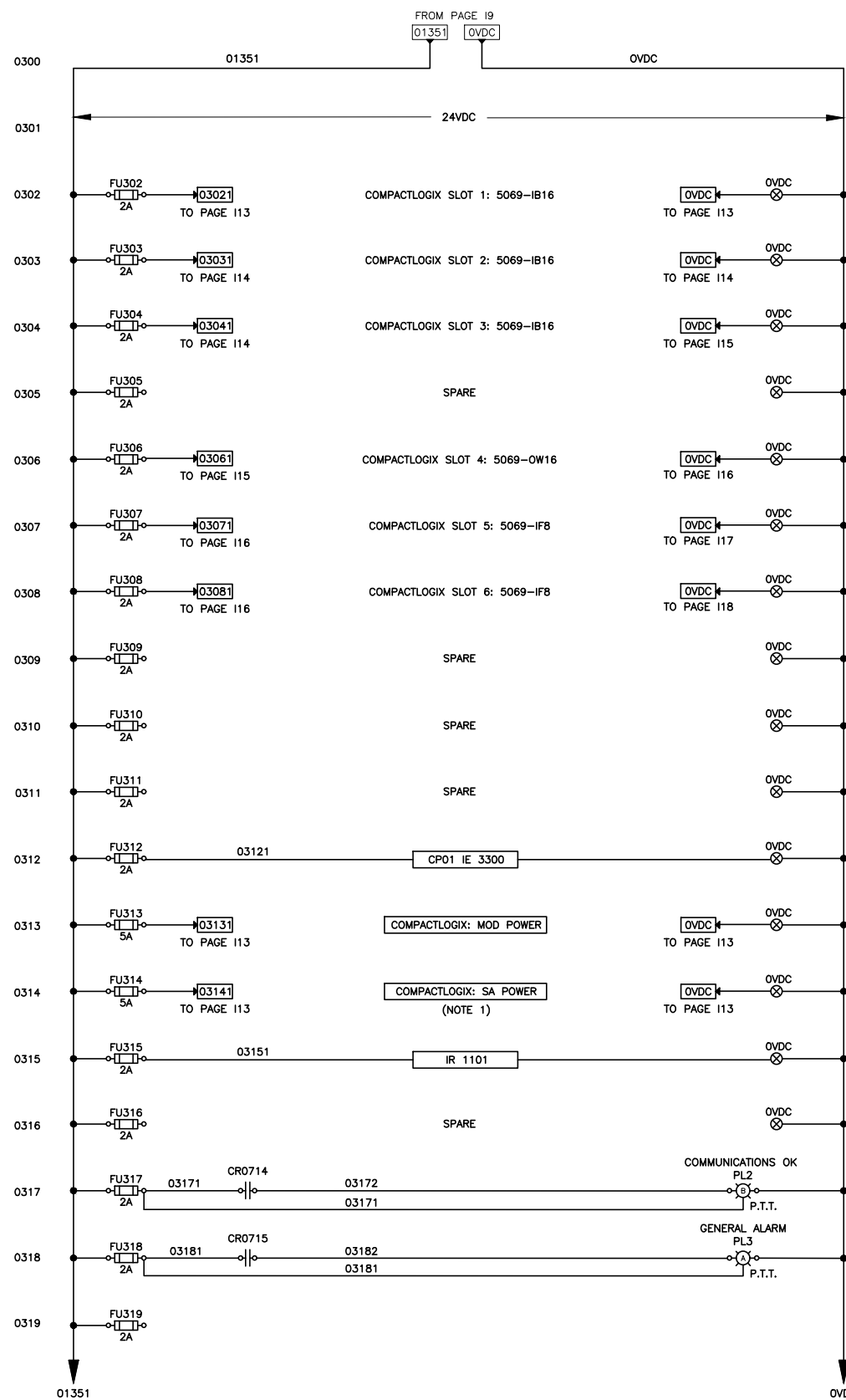


DATE	04/01/2025
DESIGN	S.T.S.
DRAWN	S.T.S.
CHECKED	Z.T.S.

UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
BLOWER BUILDING CONTROL  
PANEL WWTF\_CP01 120VAC  
WIRING DIAGRAM 2

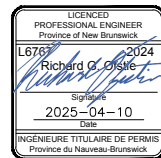
SCALE	N.T.S.
DWG. NO.	110
CONT. NO.	2000-00
SHEET NO.	10 OF 25





NOTES:

1. BASED ON DETAILED DESIGN, CONSULTANT MAY NEED ADDITIONAL SA POWER. SA POWER MAY BE 120VAC BASED ON DESIGN.
2. ALLEN BRADLEY PANELVIEW 5310 SERIES WILL BE USED WHERE APPLICABLE, TO BE DETERMINED DURING DESIGN.



No.	DATE	REVISIONS	BY
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DATE 04/01/2025	UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01 BLOWER BUILDING CONTROL PANEL WWTF_CP01 24VDC WIRING DIAGRAM 1	SCALE N.T.S.
DESIGN S.T.S.		DWG. NO. 111
DRAWN S.T.S.		CONT. NO. 2000-00
CHECKED Z.T.S.		SHEET NO. 11 OF 25

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No.	DATE	REVISIONS	BY
0.0	APR 10/25	ISSUED FOR TENDER	GP

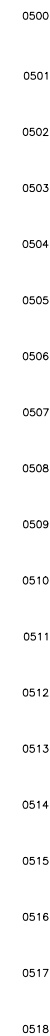


DATE 04/01/2025
DESIGN S.T.S.
DRAWN S.T.S.
CHECKED Z.T.S.

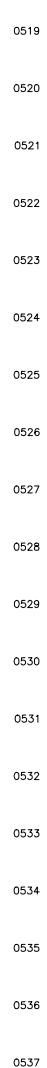
UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
BLOWER BUILDING CONTROL  
PANEL WWTF\_CP01 24VDC  
WIRING DIAGRAM 2

SCALE N.T.S.
DWG. NO. 112
CONT. NO. 2000-00
SHEET NO. 12 OF 25





SCS 10000  
SLOT 0



0	IN 0	
1	IN 1	
2	IN 2	
3	IN 3	
4	IN 4	
5	IN 5	
6	IN 6	
7	IN 7	
8	IN 8	
9	IN 9	
10	IN 10	
11	IN 11	
12	IN 12	
13	IN 13	
14	IN 14	
15	IN 15	
16	N/A	
17	N/A	

UPS FAULT/LOW BATTERY ALARM  
(TS\_UPS01\_FLT\_D0)

UPS ONLINE  
(TS\_UPS01\_STAT\_D0)

UPS SUPPLY POWER FAILURE  
(TS\_UPS01\_PWRF\_D0)

CONTROL PANEL POWER FAILURE  
(TS\_CP01\_PWRF\_D0)

CONTROL PANEL DC POWER FAILURE  
(TS\_CP01\_PSU01\_D0)

CONTROL PANEL DOOR OPEN  
(TS\_CP01\_OPEN\_D0)

ETHERNET SWITCH ALARM  
(TS\_X01\_FLT\_D0)

AIR FLOW FAULT  
(AER\_FTT01\_FLT\_D0)

BLOWER 1  
AUTO SELECTED  
(AER\_BLO01\_MODE\_D0)

BLOWER 1  
RUNNING  
(AER\_BLO01\_STAT\_D0)

BLOWER 1  
FAULT  
(AER\_BLO01\_FLT\_D0)

BLOWER 2  
AUTO SELECTED  
(AER\_BLO02\_MODE\_D0)

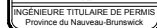
BLOWER 2  
RUNNING  
(AER\_BLO02\_STAT\_D0)

BLOWER 2  
FAULT  
(AER\_BLO02\_FLT\_D0)

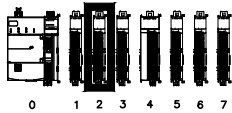
SPARE

SLOT 1 DI CARD BLOWN  
FUSE DETECTION  
(TS\_RS01\_PWRF\_D0)

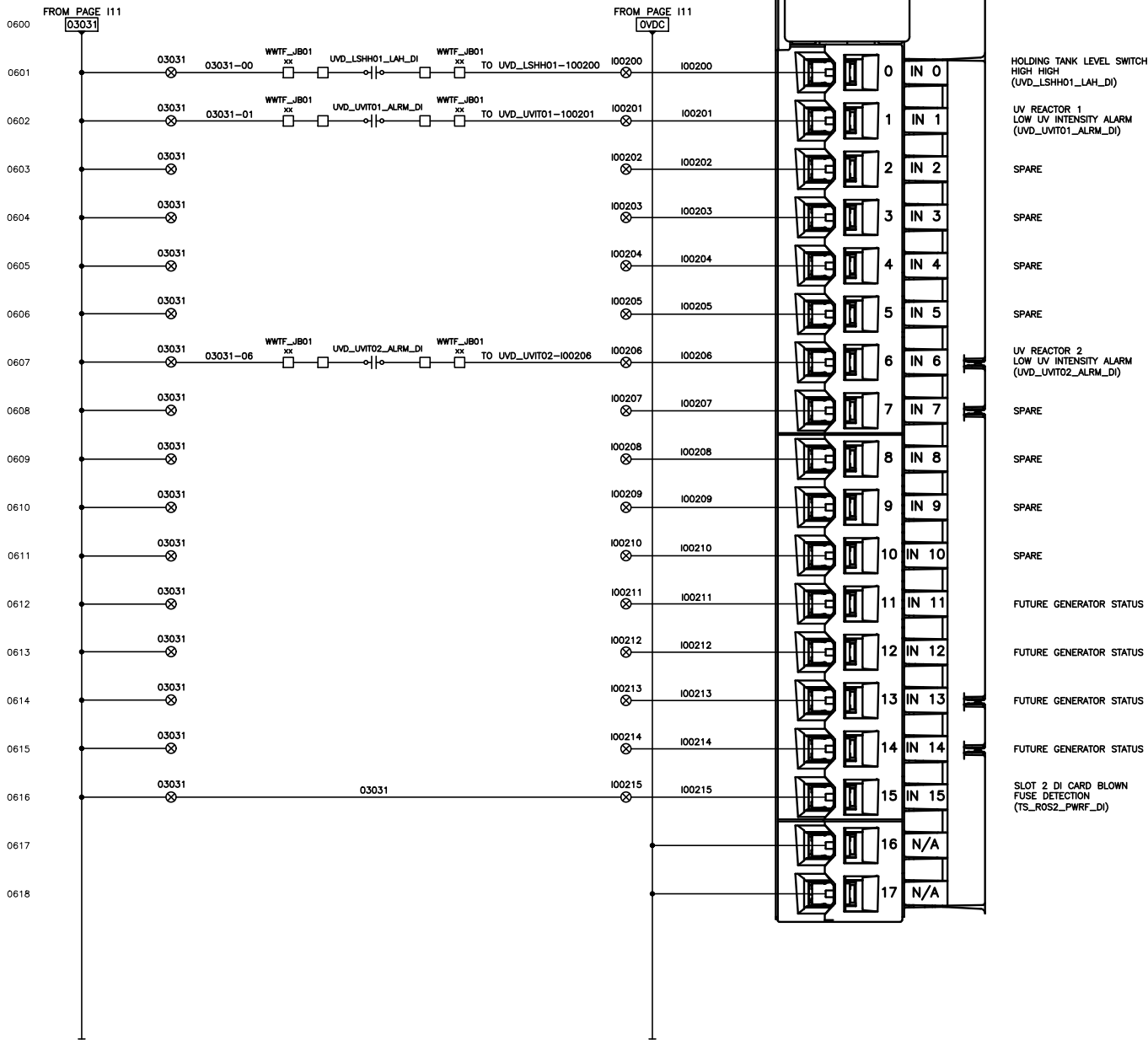
1. REFER TO THE CONTRACT I/O LIST FOR A COMPLETE LISTING OF SIGNALS TO BE SHOWN ON THE SHOP DRAWINGS. SHOP DRAWINGS TO INCLUDE LOOPS FOR ALL I/O CARDS, NOT TYPICALS.
2. ALL I/O POINTS ARE TO HAVE TWO WIRES FROM THE RTU PANEL TO THE FIELD DEVICE. COMBINING COMMON WIRES IS NOT ACCEPTABLE.

[illegible]

DATE 04/01/2025	UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01 BLOWER BUILDING WWTF-CP01 COMPACTLOGIX RACK 0 SLOT 0-1: CPU & DIGITAL INPUT CARD	SCALE N.T.S.
DESIGN S.T.S.		DWG. NO. 113
DRAWN S.T.S.		CONT. NO. 2000-00
CHECKED Z.T.S.		SHEET NO. 13 OF 25



DC INPUT  
SLOT 2  
5069-IB16



0 IN 0 HOLDING TANK LEVEL SWITCH HIGH HIGH (UVD\_LSHH01\_LAH\_DI)  
1 IN 1 UV REACTOR 1 LOW UV INTENSITY ALARM (UVD\_UVIT01\_ALRM\_DI)  
2 IN 2 SPARE  
3 IN 3 SPARE  
4 IN 4 SPARE  
5 IN 5 SPARE  
6 IN 6 UV REACTOR 2 LOW UV INTENSITY ALARM (UVD\_UVIT02\_ALRM\_DI)  
7 IN 7 SPARE  
8 IN 8 SPARE  
9 IN 9 SPARE  
10 IN 10 SPARE  
11 IN 11 FUTURE GENERATOR STATUS  
12 IN 12 FUTURE GENERATOR STATUS  
13 IN 13 FUTURE GENERATOR STATUS  
14 IN 14 FUTURE GENERATOR STATUS  
15 IN 15 SLOT 2 DI CARD BLOWN FUSE DETECTION (TS\_ROS2\_PWRP\_DI)  
16 N/A  
17 N/A

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**NOTES:**  
1. REFER TO THE CONTRACT I/O LIST FOR A COMPLETE LISTING OF SIGNALS TO BE SHOWN ON THE SHOP DRAWINGS. SHOP DRAWINGS TO INCLUDE LOOPS FOR ALL I/O CARDS, NOT TYPICALS.  
2. ALL I/O POINTS ARE TO HAVE TWO WIRES FROM THE RTU PANEL TO THE FIELD DEVICE. COMBINING COMMON WIRES IS NOT ACCEPTABLE.

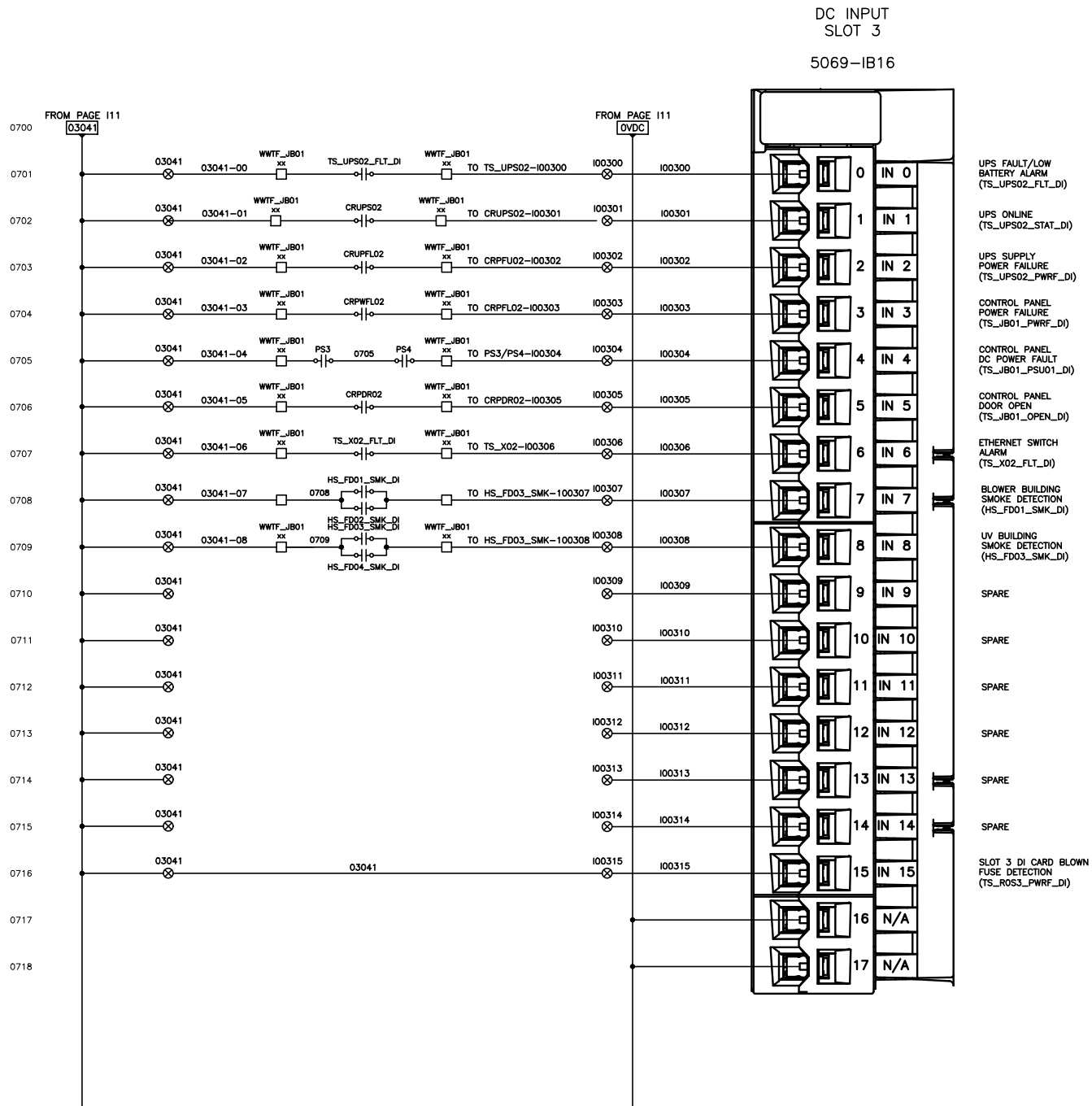


No.	DATE	REVISIONS	BY
0.0	APR 10/25	ISSUED FOR TENDER	GP



DATE 04/01/2025	UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01 BLOWER BUILDING WWTF_CP01 COMPACTLOGIX RACK 0 SLOT 2: DIGITAL INPUT CARD	SCALE N.T.S.
DESIGN S.T.S.		DWG. NO. 114
DRAWN S.T.S.		CONT. NO. 2000-00
CHECKED Z.T.S.		SHEET NO. 14 OF 25



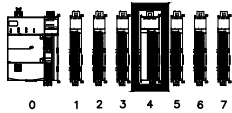


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- LICENCED  
PROFESSIONAL ENGINEER  
Province of New Brunswick  
L6763 2024  
Richard G. Oiste  
Signature  
2025-04-10  
Date  
INGÉNIEURE TITULAIRE DE PERMIS  
Province du Nouveau-Brunswick

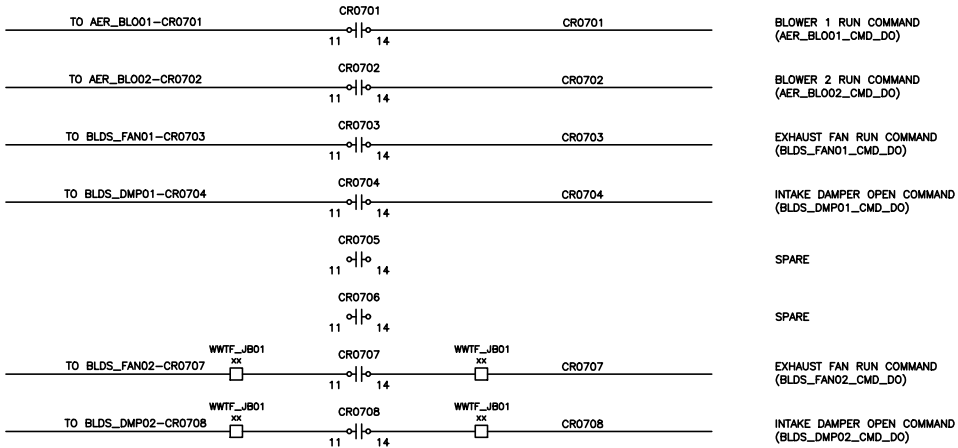
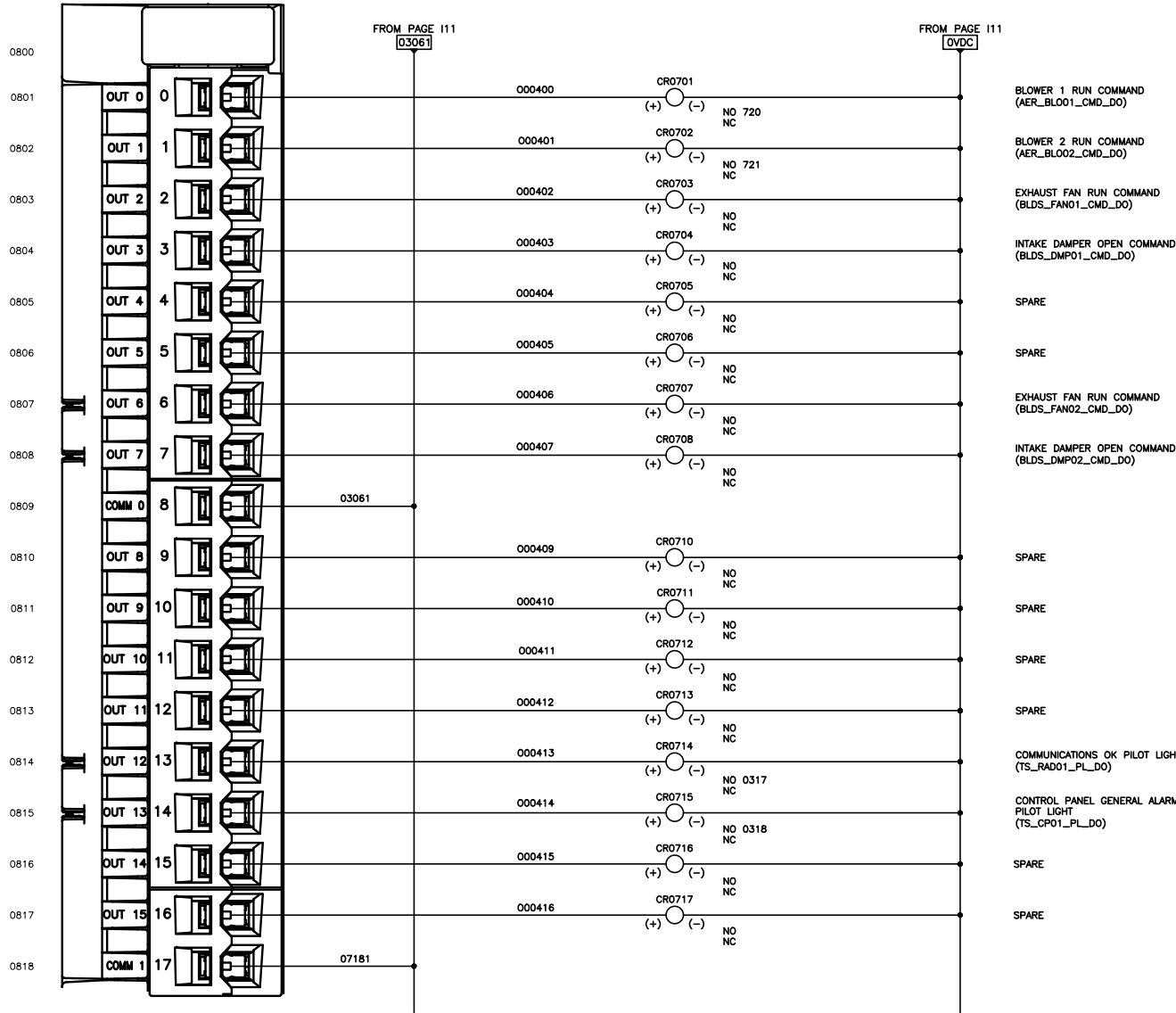
[illegible]

DATE 04/01/2025	UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY	SCALE N.T.S.
DESIGN S.T.S.	CLIENT PROJECT NO. F-23-NQ-01	DWG. NO. 115
DRAWN S.T.S.	BLOWER BUILDING WWTF_CP01	CONT. NO. 2000-00
CHECKED Z.T.S.	COMPACTLOGIX RACK 0 SLOT 3: DIGITAL INPUT CARD	SHEET NO. 15 OF 25



DC OUTPUT  
SLOT 4

5069-OW16



NOTES:

- REFER TO THE CONTRACT I/O LIST FOR A COMPLETE LISTING OF SIGNALS TO BE SHOWN ON THE SHOP DRAWINGS. SHOP DRAWINGS TO INCLUDE LOOPS FOR ALL I/O CARDS, NOT TYPICALS.
- ALL I/O POINTS ARE TO HAVE TWO WIRES FROM THE RTU PANEL TO THE FIELD DEVICE. COMBINING COMMON WIRES IS NOT ACCEPTABLE.

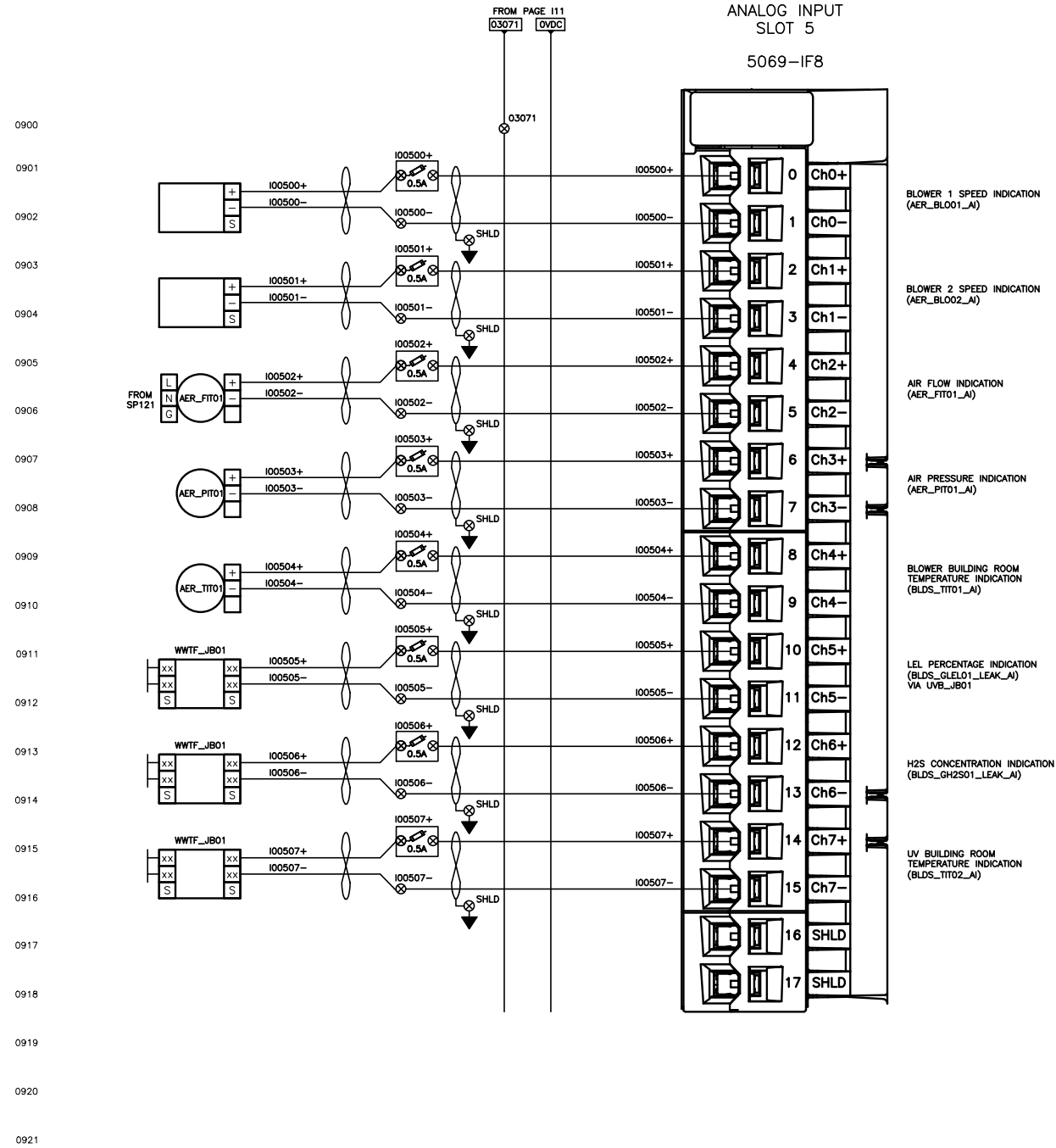


No.	DATE	REVISIONS	BY
0.0	APR 10/25	ISSUED FOR TENDER	GP



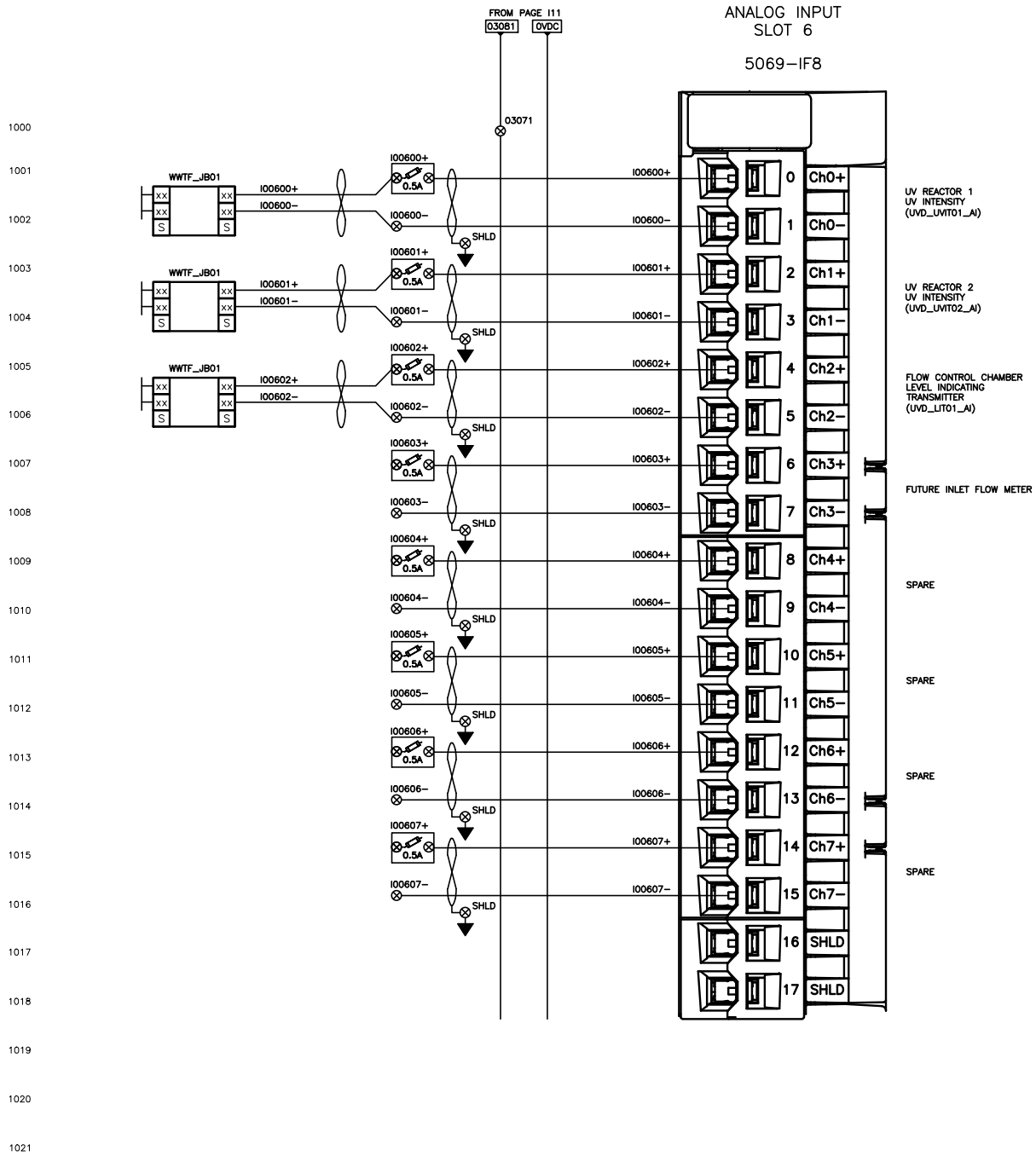
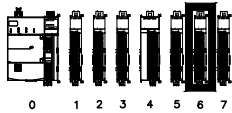
DATE 04/01/2025	UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01 BLOWER BUILDING WWTF_CP01 COMPACTLOGIX RACK 0 SLOT 4: DIGITAL OUTPUT CARD	SCALE N.T.S.
DESIGN S.T.S.		DWG. NO. 116
DRAWN S.T.S.		CONT. NO. 2000-00
CHECKED Z.T.S.		SHEET NO. 16 OF 25





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SCALE N.T.S.
DWG. NO. 117
CONT. NO. 2000-00
SHEET NO. 17 OF 25



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NOTES:

1. REFER TO THE CONTRACT I/O LIST FOR A COMPLETE LISTING OF SIGNALS TO BE SHOWN ON THE SHOP DRAWINGS. SHOP DRAWINGS TO INCLUDE LOOPS FOR ALL I/O CARDS, NOT TYPICALS.
2. ALL I/O POINTS ARE TO HAVE TWO WIRES FROM THE RTU PANEL TO THE FIELD DEVICE. COMBINING COMMON WIRES IS NOT ACCEPTABLE.

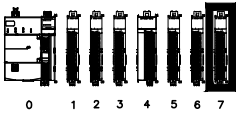


No.	DATE	REVISIONS	BY
0.0	APR 10/25	ISSUED FOR TENDER	GP

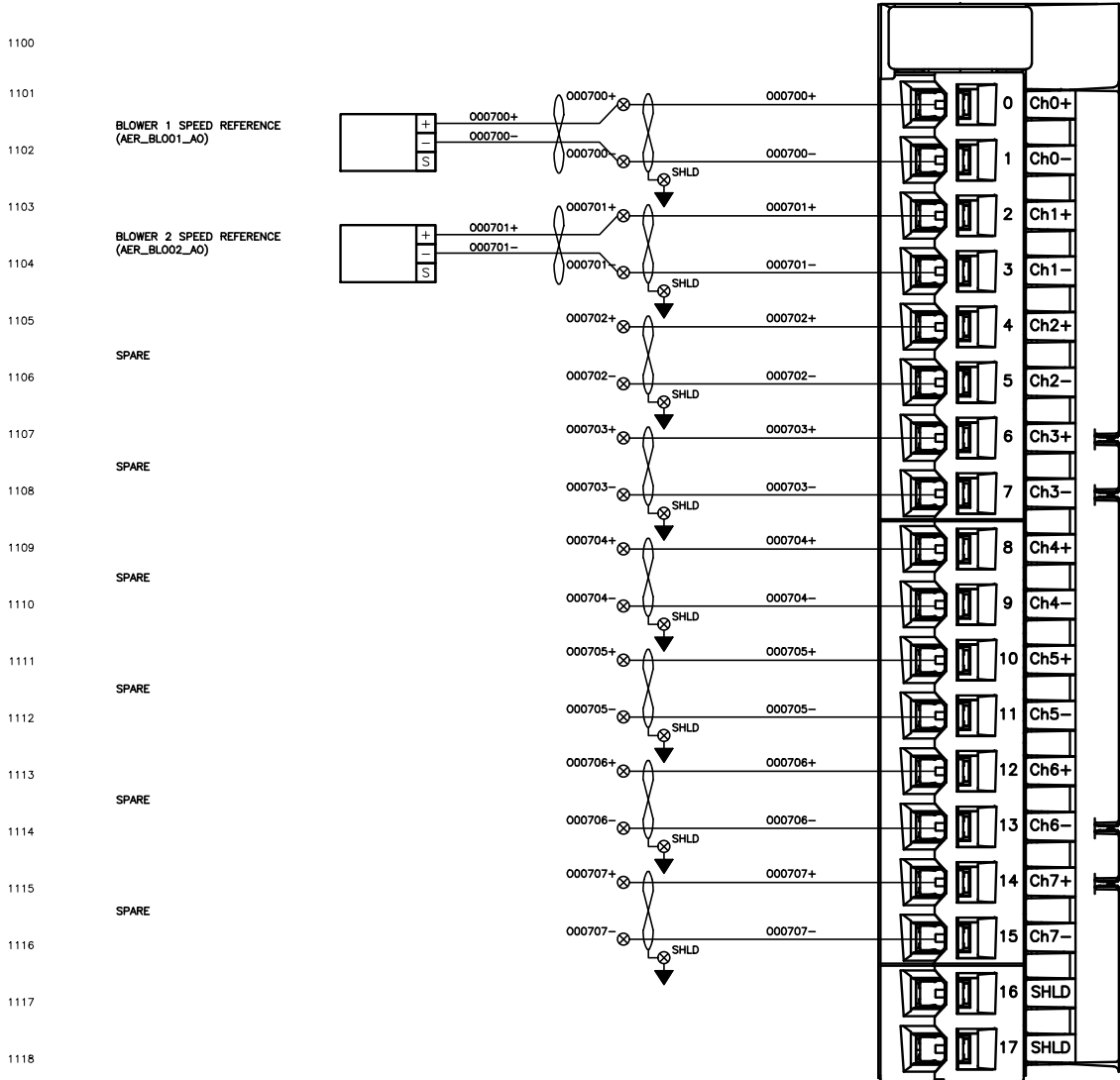


DATE 04/01/2025	UPGRADE OF NEQOTKUK WASTEWATER TREATMENT FACILITY CLIENT PROJECT NO. F-23-NQ-01 BLOWER BUILDING WWTF_CP01 COMPACTLOGIX RACK 0 SLOT 6: ANALOG INPUT CARD	SCALE N.T.S.
DESIGN S.T.S.		DWG. NO. 118
DRAWN S.T.S.		CONT. NO. 2000-00
CHECKED Z.T.S.		SHEET NO. 18 OF 25





ANALOG OUTPUT  
SLOT 7  
5069-OF8



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1121  
1122  
1123  
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NOTES:

- REFER TO THE CONTRACT I/O LIST FOR A COMPLETE LISTING OF SIGNALS TO BE SHOWN ON THE SHOP DRAWINGS. SHOP DRAWINGS TO INCLUDE LOOPS FOR ALL I/O CARDS, NOT TYPICALS.
- ALL I/O POINTS ARE TO HAVE TWO WIRES FROM THE RTU PANEL TO THE FIELD DEVICE. COMBINING COMMON WIRES IS NOT ACCEPTABLE.



No.	DATE	REVISIONS	BY
0.0	APR 10/25	ISSUED FOR TENDER	GP



DATE 04/01/2025
DESIGN S.T.S.
DRAWN S.T.S.
CHECKED Z.T.S.

UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
BLOWER BUILDING WWTF\_CP01  
COMPACTLOGIX RACK 0 SLOT  
7: ANALOG OUTPUT CARD

SCALE N.T.S.
DWG. NO. 119
CONT. NO. 2000-00
SHEET NO. 19 OF 25

ITEM	TAG	QTY	PART NUMBER	DESCRIPTION	MANUFACTURER
1		1	1418SN4SSM16	RTU PANEL ENCLOSURE, NEMA 12 STAINLESS STEEL, 48"X 36"X 16", INCLUDES BACKPLATE	HAMMOND
2					
3					
4	DSW2	1	A-20GQ-B7-K	DOOR SWITCH	OMRON
5		1	LEDDCMSMAG	ENCLOSURE COMPACT LIGHT C/W MAGNETIC MOUNT AND MOTION SENSOR	HAMMOND
6	REC3	1	5500521:CSA	COMBO RJ45/120VAC RECEPTACLE	PHOENIX CONTACT
7		1	MHK2	HANDLE KIT FOR NEMA 12 PANEL, LOCKING AND PAD LOCKING HANDLE	HAMMOND
8					
9					
10					
11					
12					
13					
14					
15	UPS02	1	9SX1500	UPS, POWERWARE 9SX SERIES, 1500VA	EATON
16		1	NETWORK-M2	UPS, ETHERNET COMM. CARD	EATON
17		2	1050000000	TERMINAL BLOCK END PLATE WAP 2.5-10	WEIDMULLER
18	TVSS02	1	2907918	SURGE SUPPRESSOR, 120VAC, 15A	PHOENIX CONTACT
19					
20		60	1020100000	TERMINAL BLOCK, WDU 4	WEIDMULLER
21		10	1010100000	GROUND TERMINAL BLOCK, GREEN YELLOW, WPE 4	WEIDMULLER
22		20	1061200000	TERMINAL BLOCK END BRACKET, WEW 35/2	WEIDMULLER
23		3	1806120000	TERMINAL BLOCK END BRACKET MARKER, EM 8/30	WEIDMULLER
24			1909020000	PLUG IN JUMPER, 20 POLE, YELLOW, FOR WDU 4	WEIDMULLER
25					
26		10	1880410000	FUSED TERMINAL BLOCK, 10-60V AC/DC, LED INDICATOR, WSI 4/2/LD	WEIDMULLER
27		10	1880450000	FUSED TERMINAL BLOCK END PLATE, WAP WSI 4/2	WEIDMULLER
28		15	AGC-2	FUSE, 2A (INCLUDES SPARES)	BUSSMAN
29					
30		10	1022300000	TERMINAL BLOCK, TWO LEVEL, SCREW CLAMPS, TOP AND BOTTOM LEVELS CONNECTED, WDK2.5V	WEIDMULLER
31		40	1041100000	TERMINAL BLOCK, TWO LEVEL, SCREW CLAMPS, WDK 2.5 ZQV	WEIDMULLER
32		1	1059100000	END PLATE FOR TERMINAL BLOCK, TWO LEVEL, WDK 2.5 ZQV	WEIDMULLER
33			1909000000	PLUG IN JUMPERS, 20-POLE, FOR WDK 2.5 ZQV	WEIDMULLER
34					
35					
36					
37					
38					
39					
40		16	0687460000	TERMINAL BLOCK, TWO LEVEL, DISCONNECTING, SCREW CLAMPS, DKT4	WEIDMULLER
41		1	0687460000	END PLATE FOR TERMINAL BLOCK, TWO LEVEL, DISCONNECTING, SCREW CLAMPS, DKT5	WEIDMULLER
42			F2X4LG6	WIRING DUCT, 50mm WIDE X 100mm HIGH, NARROW SLOT, LIGHT GRAY	PANDUIT
43		LOT	1609900000	W SERIES TERMINAL BLOCK MARKER, WS 12/6 MC, 12mm LENGTH, WHITE	WEIDMULLER
44					
45					
46					
47			F1X4LG6	WIRING DUCT, 25mm WIDE X 100mm HIGH, NARROW SLOT, LIGHT GRAY	PANDUIT
48					
49		2	PK9GTACP	GROUND BAR, COPPER, 9 TERMINALS	SQUARE D
50		2	04154-02	STANDOFF, HEXAGONAL, RED, 25.4mm HIGH, 12-24 UNC x .375" LONG EXTERNAL STUD	TELECT

ITEM	TAG	QTY	PART NUMBER	DESCRIPTION	MANUFACTURER
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					
61		1	1019710	FDX 20 SERIES 6 PORT LC DUPLEX FIBRE OPTIC DISTRIBUTOR C/W ACCESSORIES AS REQUIRED	PHOENIX CONTACT
62		3	1115636	LC TO LC OS2 FIBRE PATCH CABLE	PHOENIX CONTACT
63					
64					
65	CB101,104,107,110,112	10	1492-MCAA115	CIRCUIT BREAKER, PRIMARY, 15A	ALLEN BRADLEY
66					
67	SP126-131	5	1492-SPM1B050	CIRCUIT BREAKER, SUPPLEMENTARY, 5A	ALLEN BRADLEY
68	SP121-125	5	1492-SPM1B020	CIRCUIT BREAKER, SUPPLEMENTARY, 2A	ALLEN BRADLEY
69					
70					
71					
72	CRUPS	1	100C16D200	CONTACTOR, 110VAC, 16A, 4 POLE	ALLEN BRADLEY
73	CRUPS	1	100-FA11	100-C AUXILIARY CONTACT BLOCK, FRONT MOUNTING	ALLEN BRADLEY
74					
75	UPS REC1	2	BC1110	RECEPTACLE BOX, 1 GANG	IBERVILLE
76	UPS REC1	1	NP7	1 GANG, 1 SIMPLEX RECEPTACLE WALLPLATE, BROWN	HUBBELL
77	UPS REC1	1	HBL5251	RECEPTACLE, SIMPLEX, 15A, BROWN	HUBBELL
78					
79					
80					
81					
82					
83					
84					
85					
86		1	IE-3300-8T2S	CISCO CATALYST IE3300 RUGGED SERIES	CISCO
87	PS3, PS4	2	2866763	DC POWER SUPPLY, QUINT SFB SERIES, 10A OUTPUT	PHOENIX CONTACT
88	DIO2	1	2866514	DC POWER SUPPLY REDUNDANCY MODULE, 12-24VDC, 2X10A, 1X20A RATED	PHOENIX CONTACT
89	CRUPFL,CRPWRL,CRPDR	3	700-HN153	700-HB RELAY BASE	ALLEN BRADLEY
90	CRUPFL,CRPWRL	2	700-HB33A1-4	RELAY, 120VAC COIL, 3PDT, 15A CONTACT RATING, LED STATUS INDICATION	ALLEN BRADLEY
91	CRPDR	1	700-HB33Z24-4	RELAY, 24VDC COIL, 3PDT, 15A CONTACT RATING, LED STATUS INDICATION	ALLEN BRADLEY
92					
93					
94					
95					
96					
97					
98					
99		AS REQ	PSHT-250-175-WT	HEAT SHRINK WIRE LABELS, PERMASLEEVE, 1.765"W x 0.439"H	BRADY
100					



No.	DATE	REVISIONS	BY
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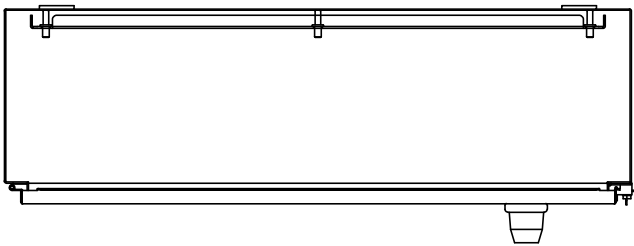


DATE 04/01/2025
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DRAWN S.T.S.
CHECKED Z.T.S.

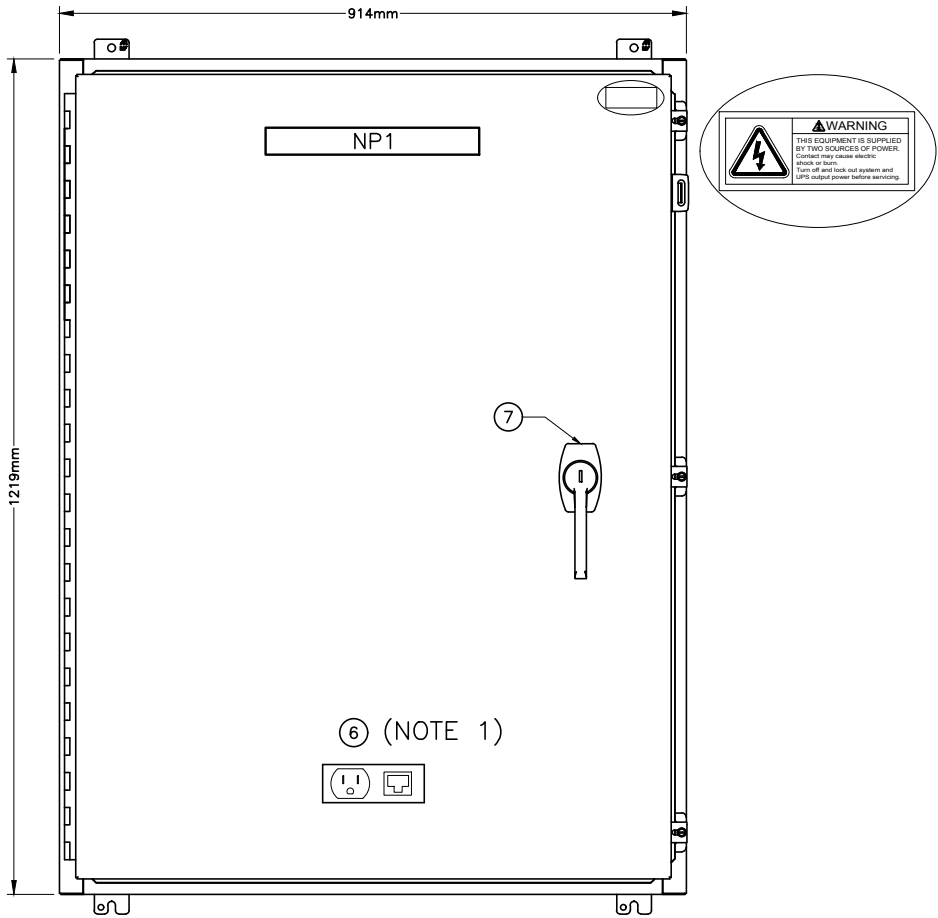
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WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
UV BUILDING MARSHALLING  
PANEL WWTF\_JB01  
BILL OF MATERIALS

SCALE N.T.S.
DWG. NO. 120
CONT. NO. 2000-00
SHEET NO. 20 OF 25

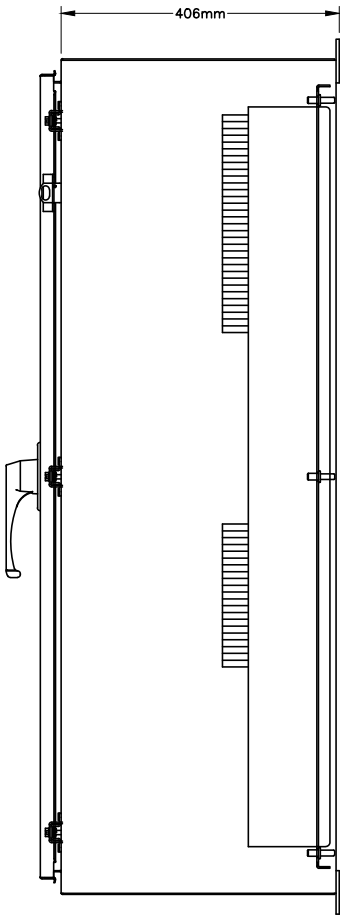




CONTROL PANEL LAYOUT TOP VIEW



CONTROL PANEL LAYOUT FRONT VIEW



CONTROL PANEL LAYOUT RIGHT SIDE VIEW

NAMEPLATE LEGEND		
NAMEPLATE	LINE 1	LINE 2
NP1	6NQ_WWTF_JB01	MARSHALLING PANEL

NOTES:

1. RJ45/120V RECEPTACLE IS TO BE INSTALLED ON THE FRONT OF THE RTU PANEL.
2. ALL FIELD WIRING IS TO ENTER THE PANEL FROM THE BOTTOM.
3. REFER TO BILL OF MATERIALS FOR ITEM NUMBER DESCRIPTIONS.
4. CONSULTANT TO CHANGE TO NEMA4X SS INSULATED AND HEATED PANEL COMPLETE WITH INNER AND OUTER DOOR TO PROTECT INNER DOOR MOUNTED COMPONENTS FROM THE ELEMENTS WHEN PANEL IS TO BE INSTALLED OUTDOORS.



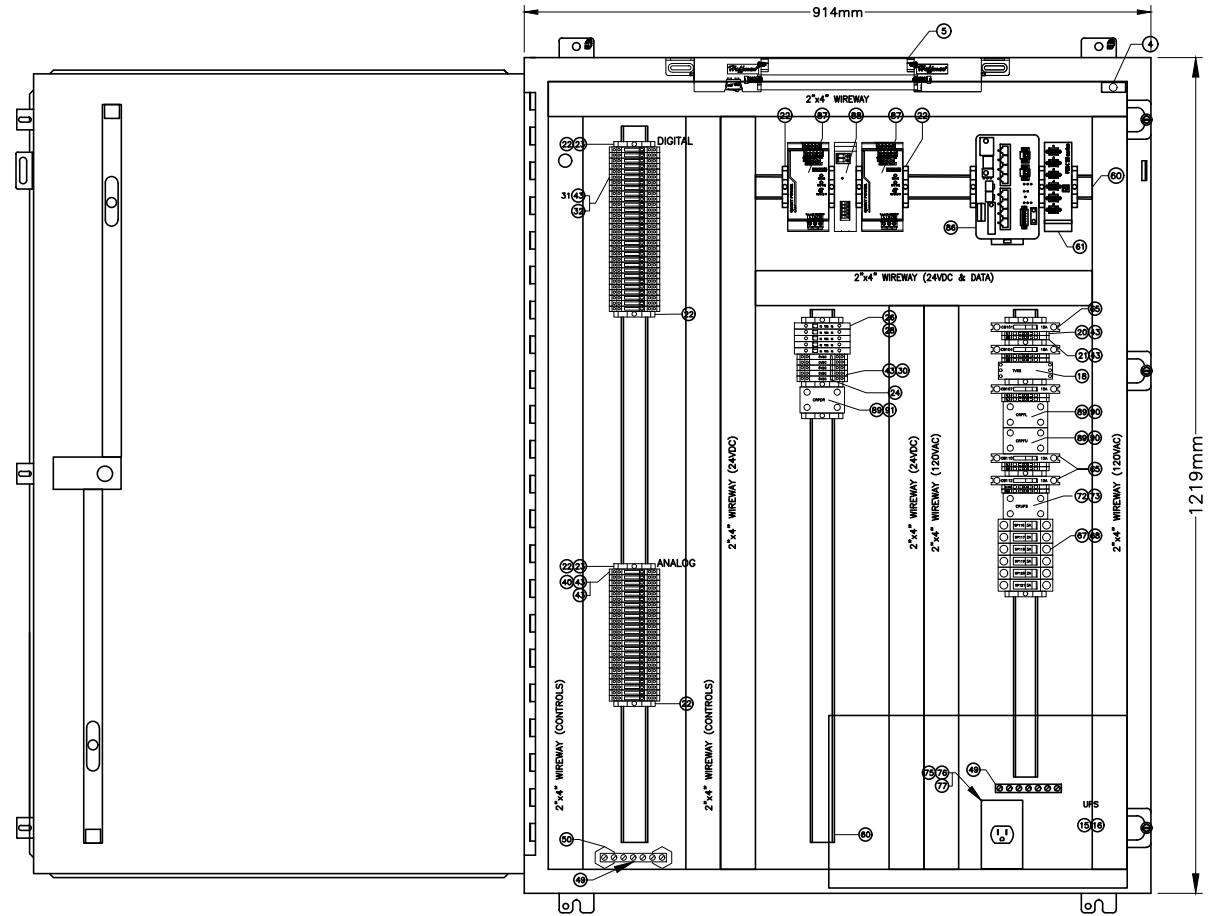
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DRAWN	S.T.S.
CHECKED	Z.T.S.

UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
UV BUILDING MARSHALLING  
PANEL WWTF\_JB01  
EXTERIOR LAYOUT

SCALE	N.T.S.
DWG. NO.	I21
CONT. NO.	2000-00
SHEET NO.	21 OF 25



NOTES:

- ALL FUSE TERMINALS ARE TO BE MOUNTED SUCH THAT THE HINGE IS CLOSEST TO THE INTERNAL WIRING DUCT.
- ALL CIRCUIT BREAKERS ARE TO BE MOUNTED SUCH THAT THEY ARE ON WHEN THE SWITCH IS POINTING TOWARD THE INTERNAL WIRING DUCT.
- USE A RIGHT ANGLE CONNECTOR TO CONNECT THE ANTENNA TO THE RADIO.
- REFER TO BILL OF MATERIALS FOR ITEM NUMBER DESCRIPTIONS.
- INDOOR HIGH TEMPERATURE ONLY, OUTDOOR PANEL DUAL TEMPERATURE REQUIRED.



No.	DATE	REVISIONS	BY
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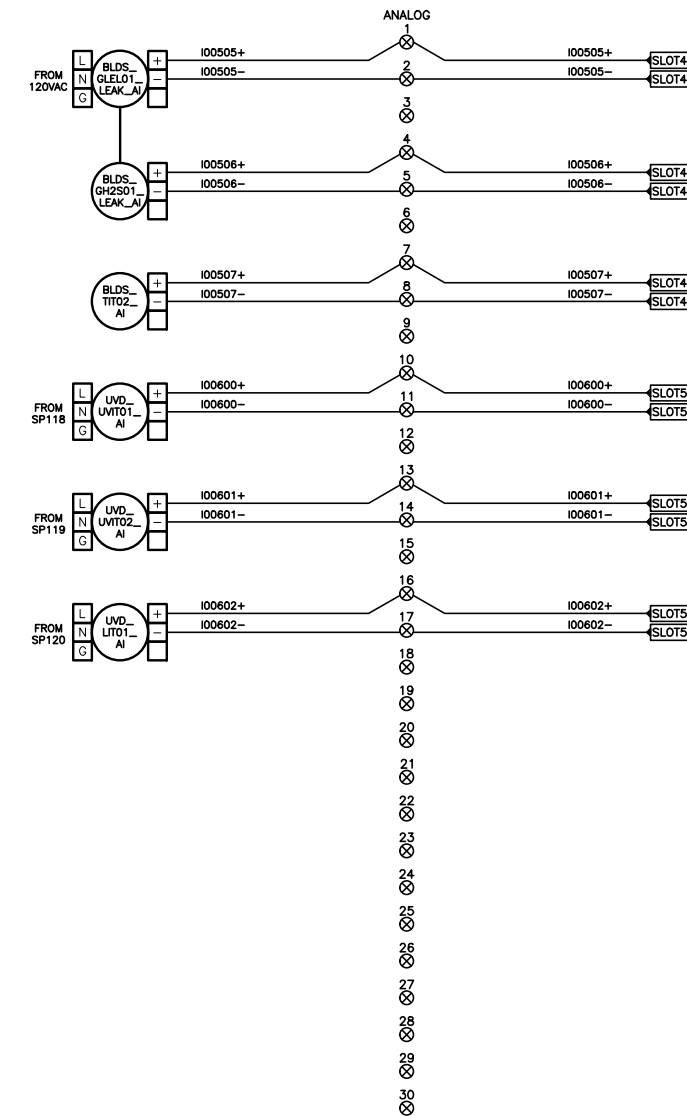


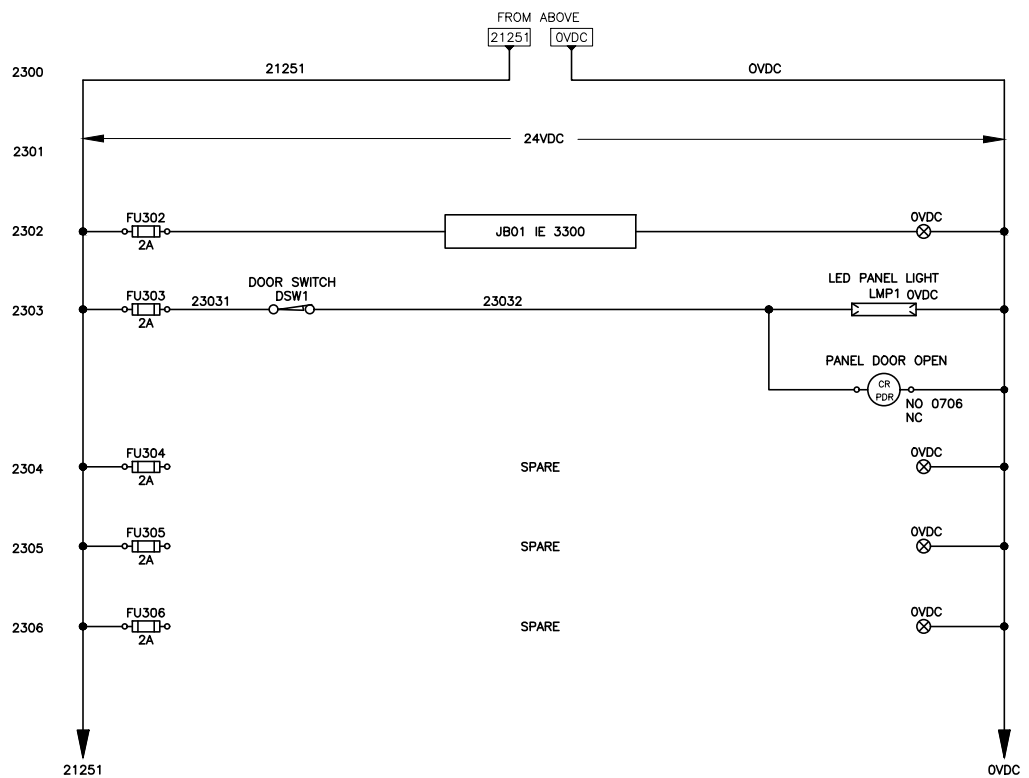
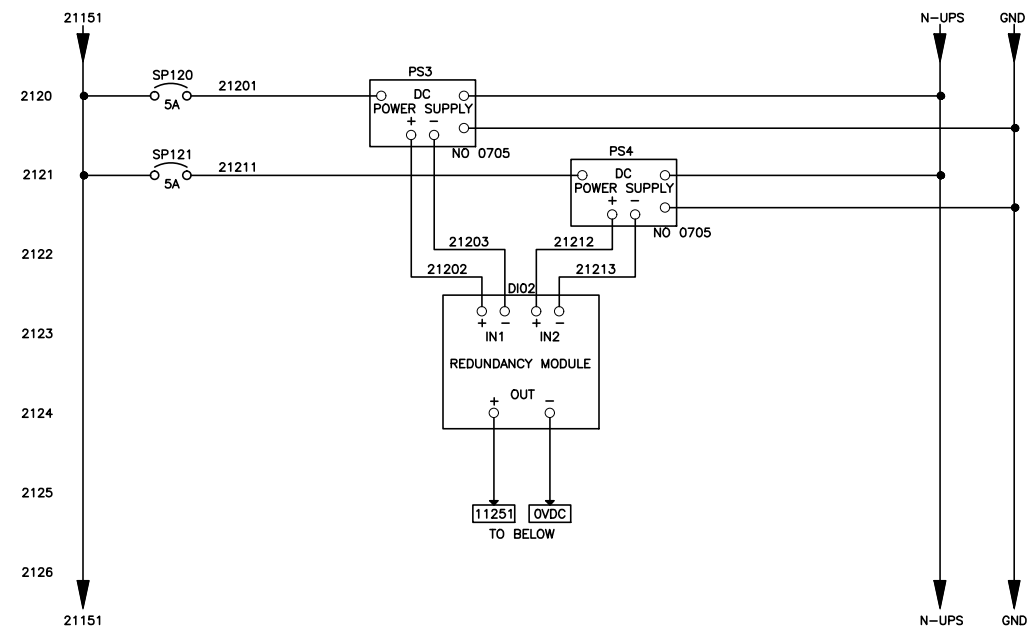
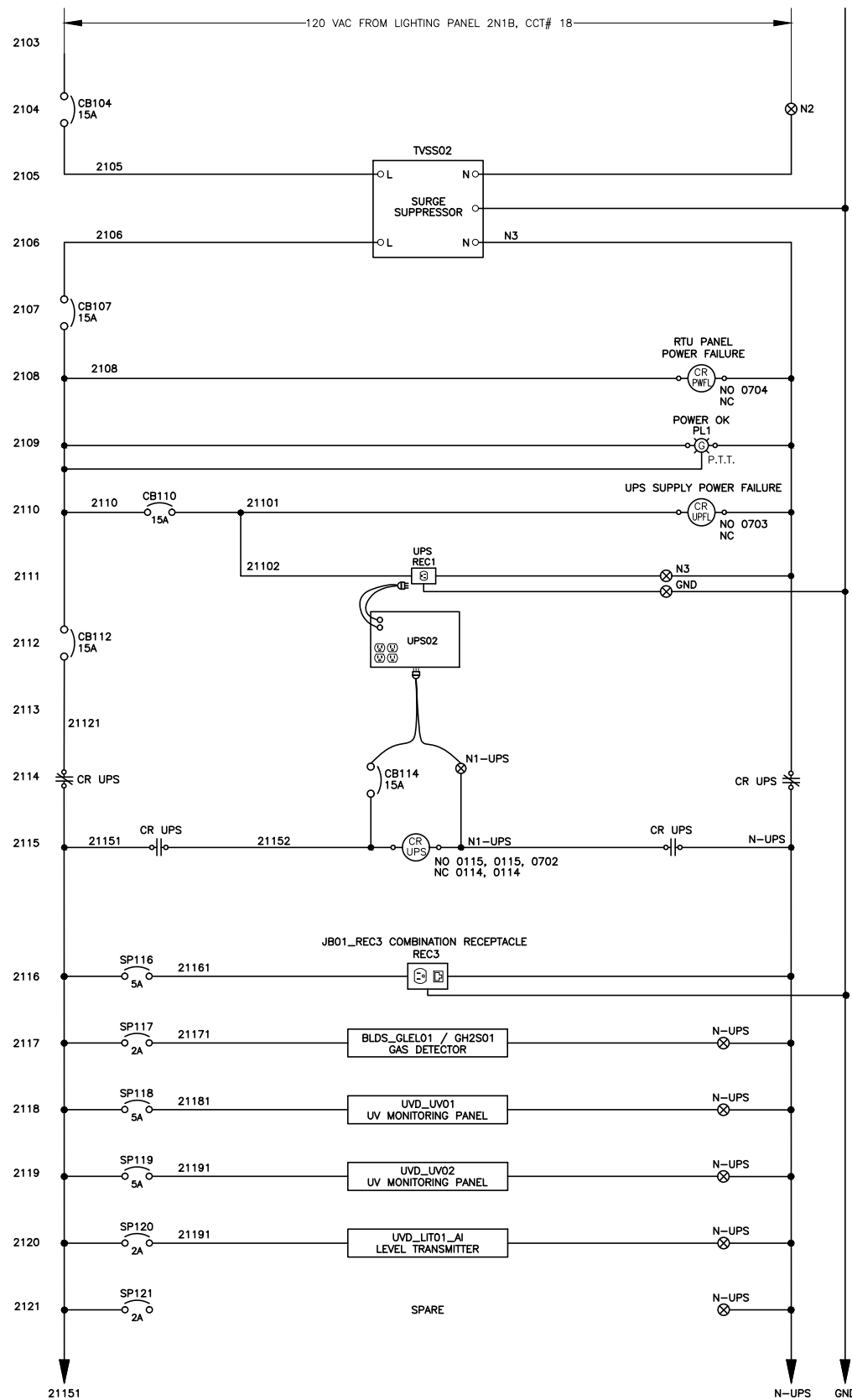
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DESIGN	S.T.S.
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UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
UV BUILDING MARSHALLING  
PANEL WWTF\_JB01  
INTERIOR LAYOUT

SCALE	N.T.S.
DWG. NO.	122
CONT. NO.	2000-00
SHEET NO.	22 OF 25

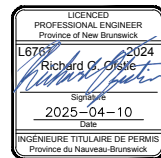






NOTES:

1. BASED ON DETAILED DESIGN, CONSULTANT MAY NEED ADDITIONAL SA POWER. SA POWER MAY BE 120VAC BASED ON DESIGN.
2. ALLEN BRADLEY PANELVIEW 5310 SERIES WILL BE USED WHERE APPLICABLE, TO BE DETERMINED DURING DESIGN.



No.	DATE	REVISIONS	BY
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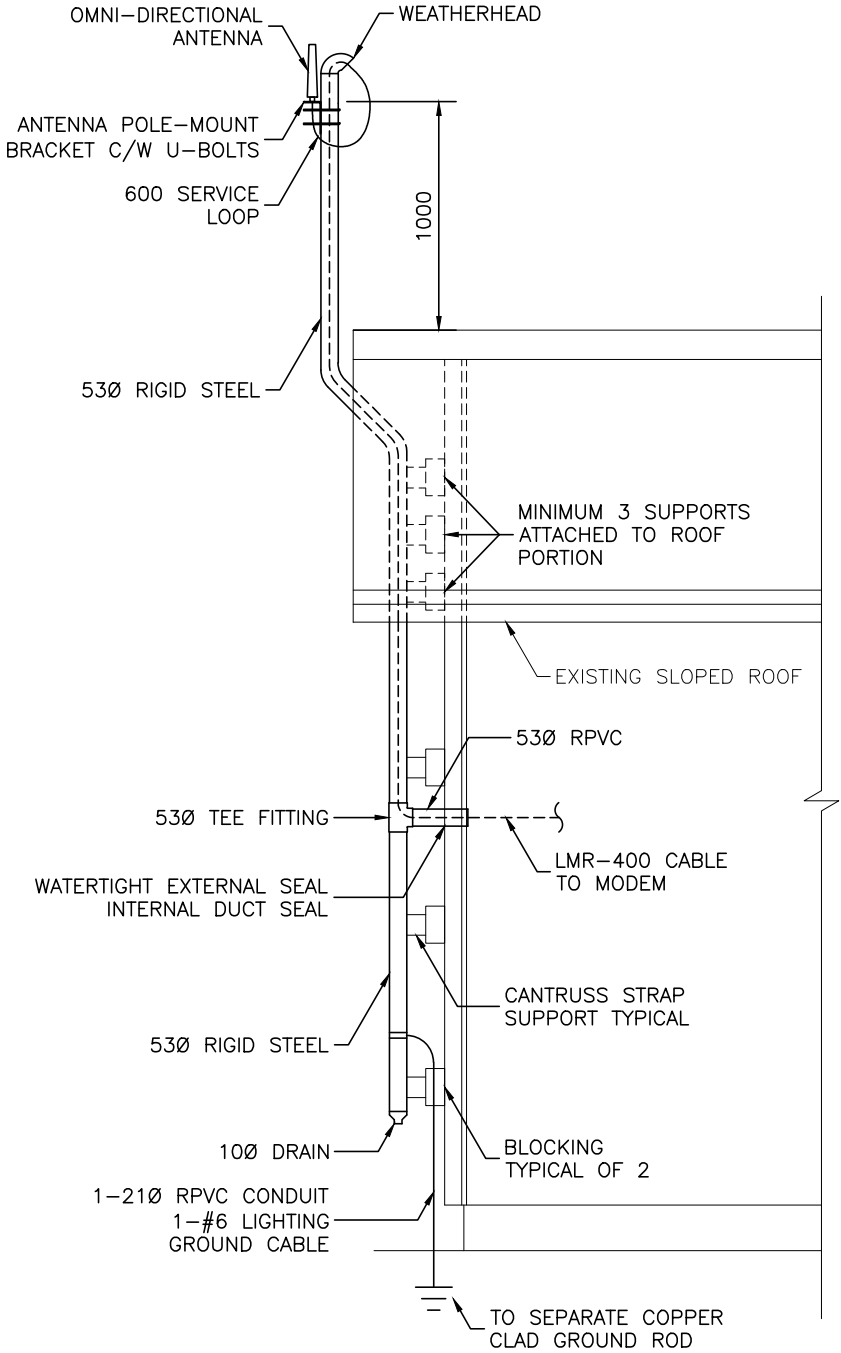


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DESIGN	S.T.S.
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CHECKED	Z.T.S.

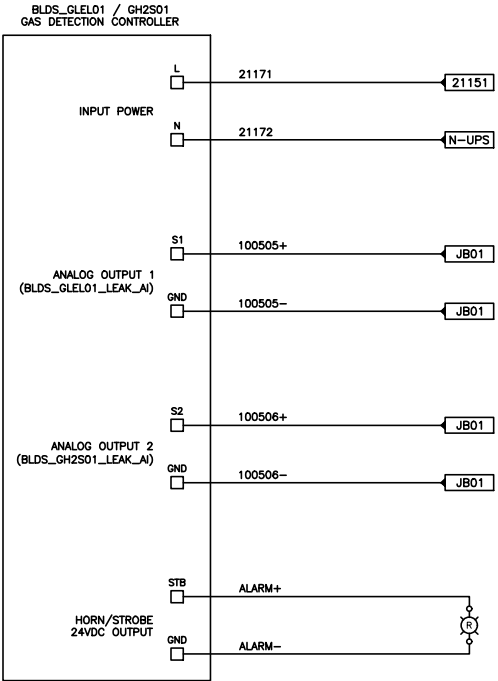
UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
UV BUILDING WWTF\_JB01  
MARSHALLING PANEL  
WIRING DIAGRAM 2

SCALE	N.T.S.
DWG. NO.	124
CONT. NO.	2000-00
SHEET NO.	24 OF 25





CELLULAR ANTENNA DETAILS



GAS DETECTION CONTROLLER DETAILS



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DATE	04/01/2025
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CHECKED	Z.T.S.

UPGRADE OF NEQOTKUK  
WASTEWATER TREATMENT FACILITY  
CLIENT PROJECT NO. F-23-NQ-01  
INSTRUMENTATION DETAILS

SCALE	N.T.S.
DWG. NO.	I25
CONT. NO.	2000-00
SHEET NO.	25 OF 25