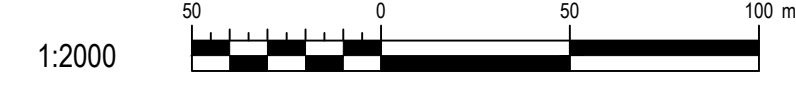
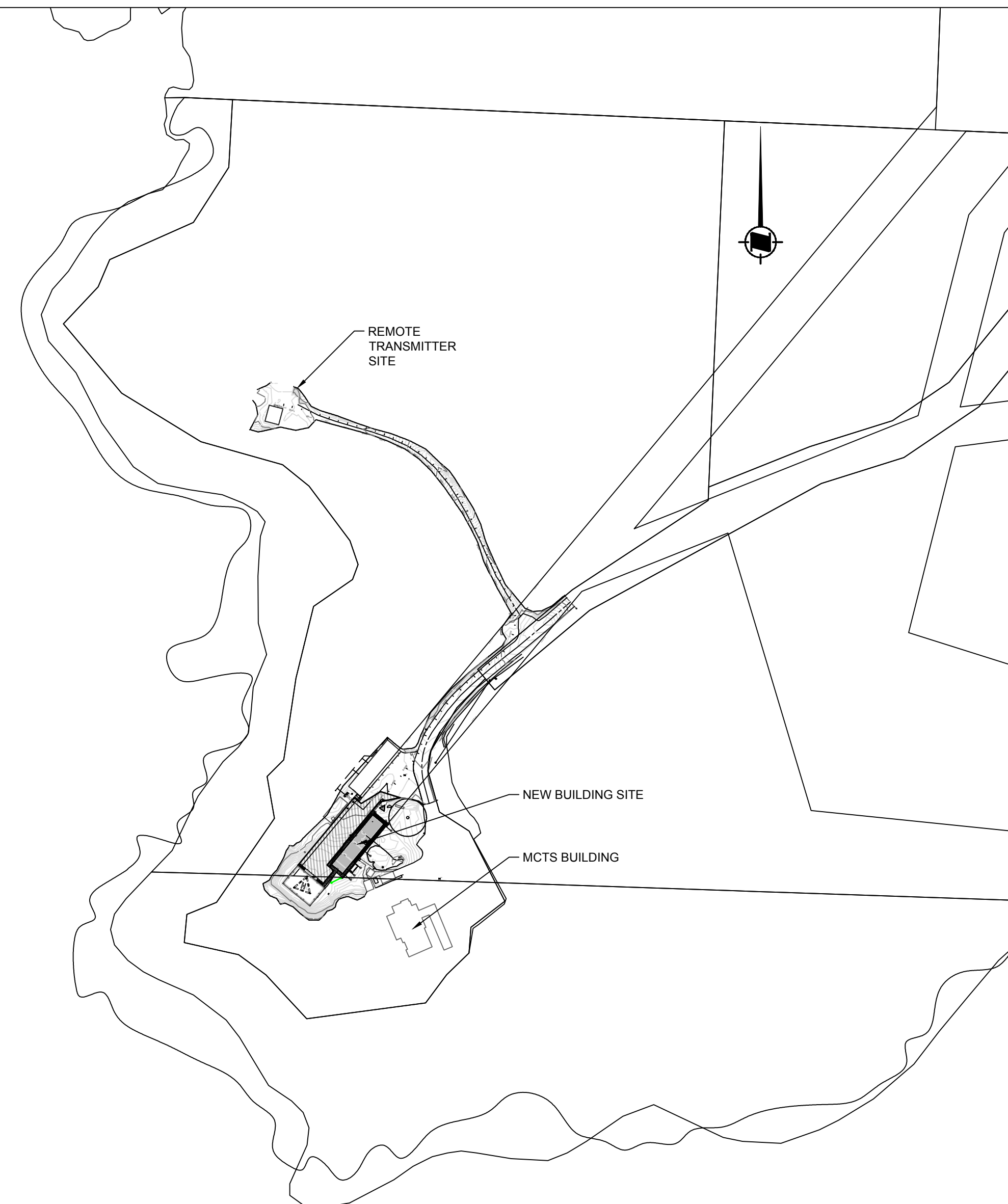


# CANADIAN COAST GUARD

## AMPHITRITE POINT

### UCLUELET BC

CIVIL DRAWING LIST	
NUMBER	DRAWING NAME
G-000	COVER SHEET
C-001	SITE PLAN
C-002	EXISTING SITE PLAN
C-003	DEMO SITE PLAN
C-004	NEW BUILDING SERVICING PLAN
C-005	NEW BUILDING SITE GRADING PLAN
C-006	SECTIONS & DETAILS
C-007	HELIPAD UPGRADES & PAINTING DETAILS
C-201	CONDUIT PLAN & PROFILE STA 0+000 TO 0+070
C-202	CONDUIT PLAN & PROFILE STA 0+070 TO 0+130
C-203	CONDUIT PLAN & PROFILE STA 1+000 TO 1+090
C-204	CONDUIT PLAN & PROFILE STA 1+090 TO 1+175
ARCHITECTURAL DRAWING LIST	
NUMBER	DRAWING NAME
A-001	BUILDING PLANS
A-002	BUILDING ELEVATIONS & SECTIONS
A-003	SECTION & DETAILS
BUILDING ENVELOPE DRAWING LIST	
NUMBER	DRAWING NAME
BE-000	COVER SHEET & ASSEMBLIES
BE-001	BUILDING PLAN, SECTIONS & CODE CHECK
BE-002	ROOF & WALL DETAILS
BE-003	ROOF & PENETRATION DETAILS
BE-004	DOOR & PENETRATION DETAILS
STRUCTURAL DRAWING LIST	
NUMBER	DRAWING NAME
S-001	GENERAL NOTES
S-002	BUILDING PLANS AND FUEL TANK FOUNDATION PAD
S-003	WALL ELEVATIONS & FOUNDATION SECTIONS
S-004	ROOF AND SECTIONS DETAILS
ELECTRICAL DRAWING LIST	
NUMBER	DRAWING NAME
E-001	SITE ELECTRICAL LAYOUT, LEGEND & DETAILS
E-002	MAIN FLOOR ELECTRICAL LAYOUT
E-003	BUILDING AND TOWER GROUNDING SYSTEM
E-004	REMOTE TRANSMITTER CABLE TRENCH AND MANHOLE LOCATIONS
MECHANICAL DRAWING LIST	
NUMBER	DRAWING NAME
M-000	MECHANICAL COVER SHEET & SCHEDULES
M-001	FOUNDATION PLAN & PLUMBING PLAN
M-002	MECHANICAL PLAN AND DETAILS
FIRE PROTECTION DRAWING LIST	
NUMBER	DRAWING NAME
FP-01	FIRE SUPPRESSION SYSTEMS



1	REISSUED FOR TENDER	SMC	2019-02-27
0	ISSUED FOR TENDER	SMC	2018-10-02
rev	description	by	date
Asset - Actif			
<b>WM104 AMPHITRITE POINT</b>			
<b>EQUIPMENT BUILDING</b>			
Drawing - Dessin			
<b>COVER SHEET</b>			
drawn - dessiné		date	
TDK		2018-08-27	
designed - conception		date	
SMC		2018-08-27	
checked - vérifié		date	
SMC		2018-10-02	
approved - approuvé		date	
-			
CCG ref. no. - no. réf. GCC		scale - échelle	
WM104-1024		-	
drawing no. - no. dessin		rev-rév	
G-000		1	

Vendor Information / Sous-traitant

- NOTES:
1. SITE SURVEY PERFORMED BY CCG MCI ENGINEERING ON 04-25-2018.
  2. COORDINATE VALUES ARE REFERENCED TO THE NAD83 (CSRS) HORIZONTAL DATUM AND THE HTZ.0 GEOID MODEL VERTICAL DATUM.
  3. COORDINATES ARE REFERRED TO THE UNIVERSAL TRANSVERSE MERCATOR (UTM) PROJECTION, ZONE 10 NORTH.
  4. COORDINATES AND ELEVATIONS DERIVED FROM TIES TO MONUMENT No. 947001B:  
N 542252.382m  
E 313838.301m  
H 23.017m
  5. COORDINATES SHOWN ARE UTM GRID VALUES. GRID DISTANCES CAN BE CONVERTED BY A COMBINED SCALE FACTOR OF 1.000025.
  6. CONTOUR INTERVAL: MAJOR 1.0m MINOR 0.10m
  7. ALL DIMENSIONS IN METERS UNLESS OTHERWISE NOTED.
  8. LOCATION OF UNDERGROUND FEATURES ARE APPROXIMATE. INFORMATION MAY BE INCOMPLETE OR EXCLUDED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SITE CONDITIONS PRIOR TO COMMENCING ANY SITE WORK.

SURVEY CONTROL TABLE			
POINT	NORTHING	EASTING	ELEVATION
CP001	5422198.028	313803.829	14.195
CP002	5422155.193	313892.565	16.090
CP003	5422068.863	313938.445	21.440
CP004	5421960.157	313905.010	19.347
CP005	5421926.507	313861.328	19.273
CP006	5421952.048	313819.388	20.861

rev	description	by	date
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0	ISSUED FOR TENDER	SMC	2018-10-02

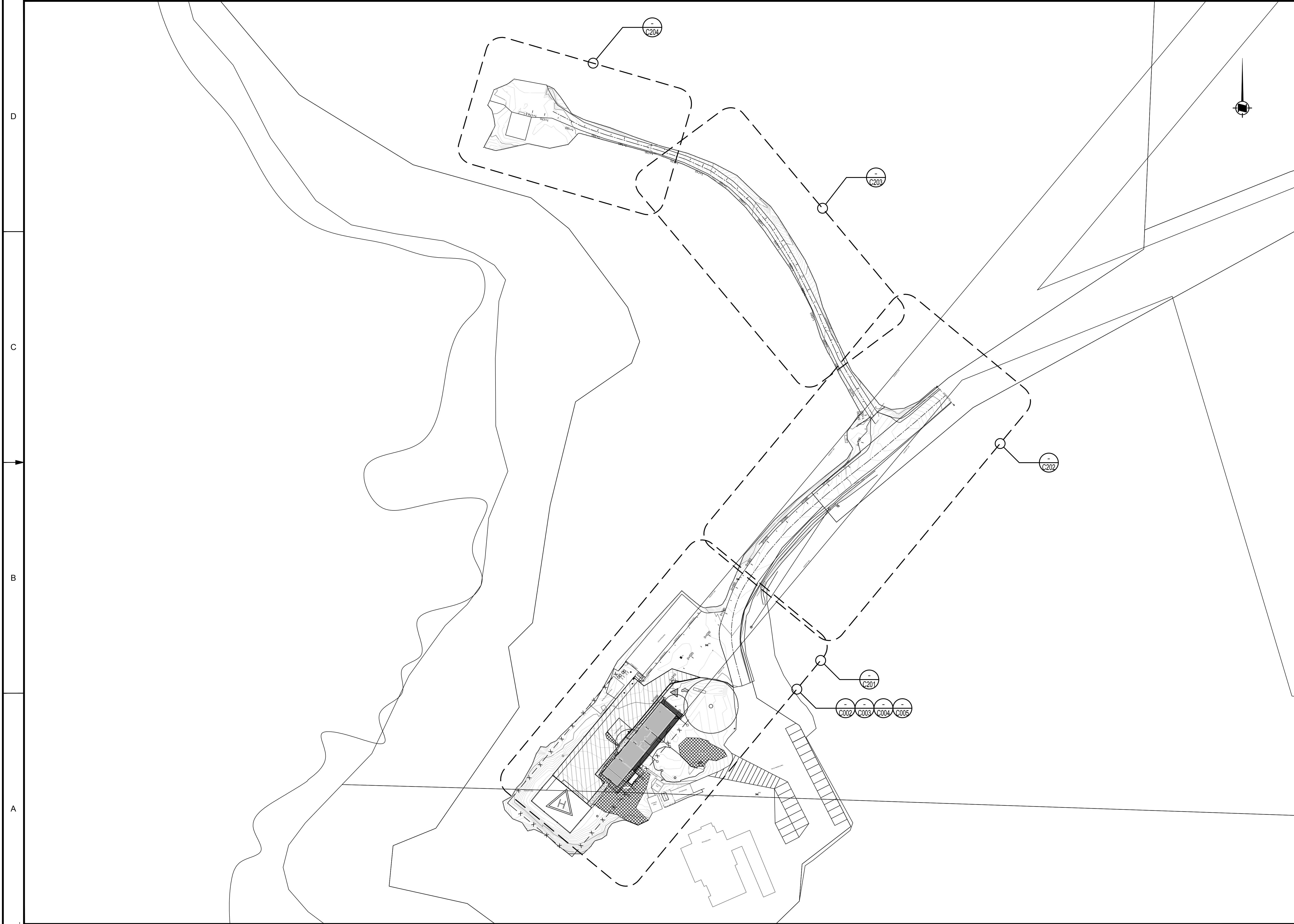
Asset - Actif

**WM104 AMPHITRITE POINT  
EQUIPMENT BUILDING**

**SITE PLAN**

drawn - dessiné	date
TDK	2018-08-27
designed - conception	date
SMC	2018-08-27
checked - vérifié	date
SMC	2018-10-02
approved - approuvé	date
-	-

CCG ref. no. - no. réf. GCC	scale - échelle
WM104-1024	1:600
drawing no. - no. dessin	sheet/feuille
C-001	1 OF 7
rev-rév	
1	

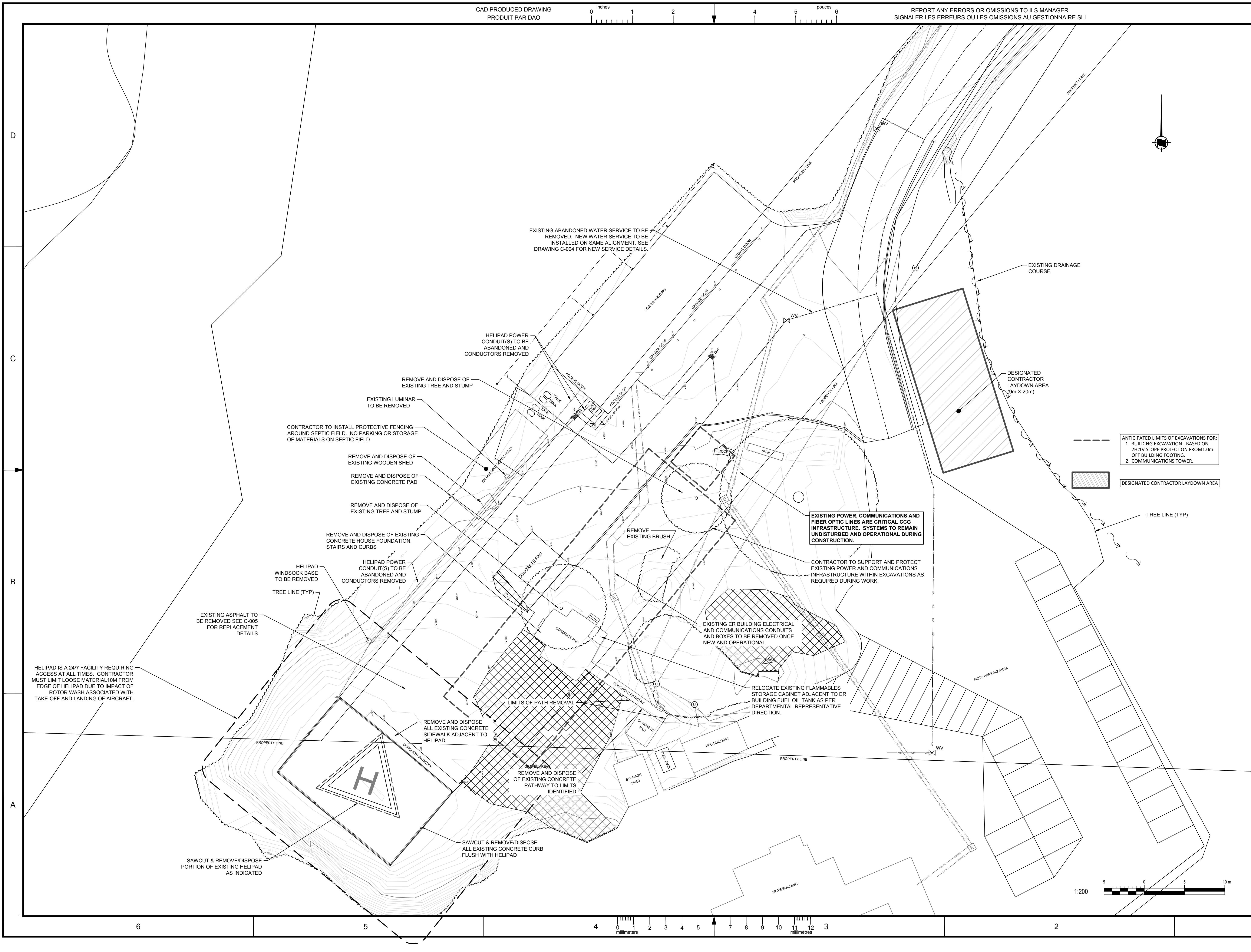


A  
B  
C  
D



**LEGEND**

- WATER (E)
- STORM DRAIN (E)
- COMMUNICATIONS (E)
- AERIAL POWER (E)
- BURIED POWER (E)
- MAJOR CONTOUR (M)
- MINOR CONTOUR (M)
- X — X — NEW FENCE LINE



ANTICIPATED LIMITS OF EXCAVATIONS FOR:  
 1. BUILDING EXCAVATION - BASED ON 2H:1V SLOPE PROJECTION FROM 1.0m OFF BUILDING FOOTING.  
 2. COMMUNICATIONS TOWER.

DESIGNATED CONTRACTOR LAYDOWN AREA

1	ISSUED FOR TENDER	SMC	2019-02-27
0	ISSUED FOR TENDER	SMC	2018-10-02
rev	description	by	date

Asset - Actif  
**WM104 AMPHITRITE POINT**  
**EQUIPMENT BUILDING**  
 Drawing - Dessin  
**DEMO SITE PLAN**

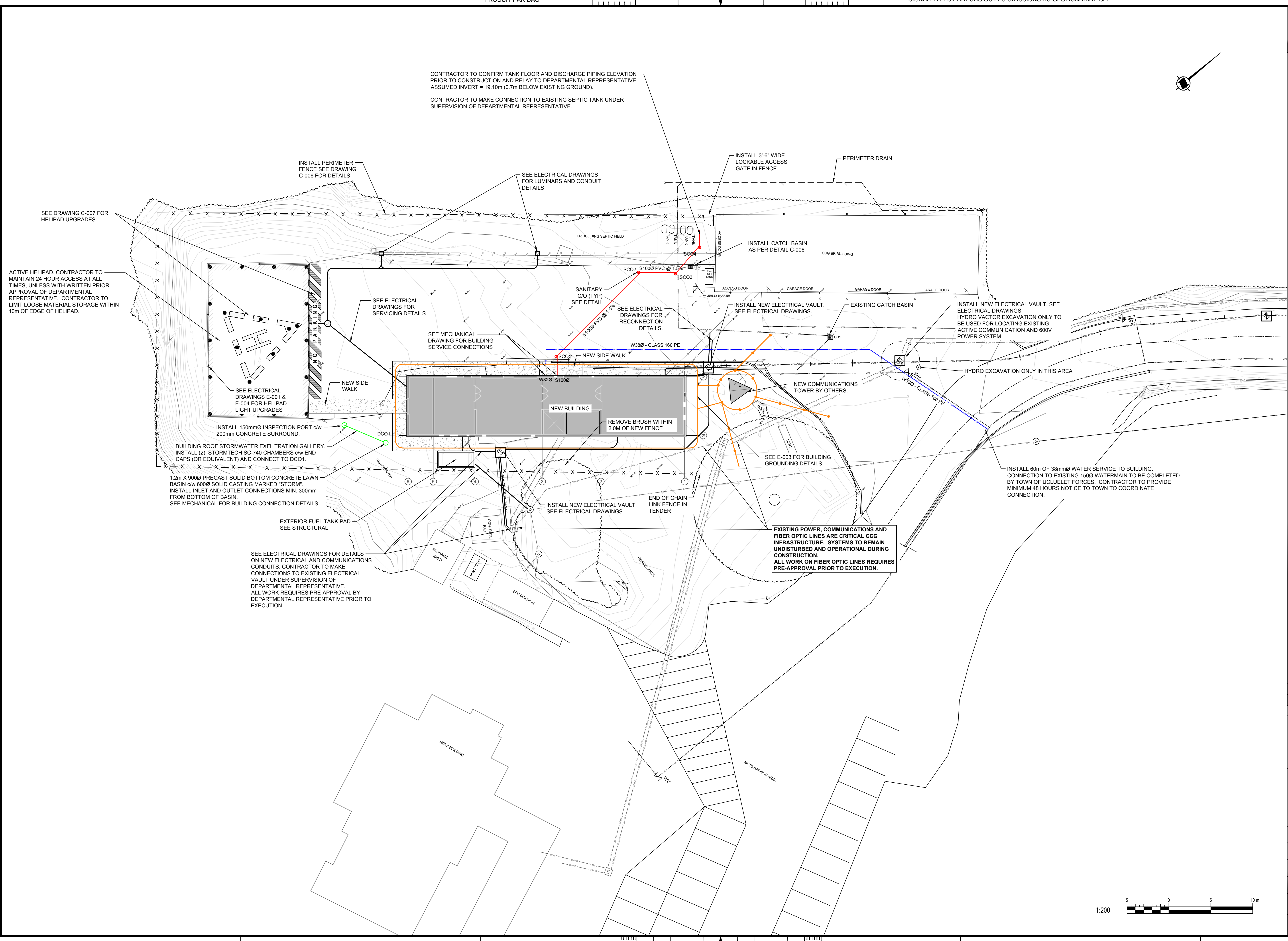
drawn - dessiné	date
TDK	2018-08-27
designed - conception	date
SMC	2018-08-27
checked - vérifié	date
SMC	2018-10-02
approved - approuvé	date
-	-
CCG ref. no. - no. ref. GCC	scale - échelle
WM104-1024	1:250
drawing no. - no. dessin	sheet-feuille
C-003	3 OF 7

Vendor Information / Sous-traitant

**LEGEND**

- WATER (E)
- STORM DRAIN (E)
- COMMUNICATIONS (E)
- AERIAL POWER (E)
- BURIED POWER (E)
- MAJOR CONTOUR (M)
- MINOR CONTOUR (M)
- X — X — NEW FENCE LINE

D  
C  
B  
A



CONTRACTOR TO CONFIRM TANK FLOOR AND DISCHARGE PIPING ELEVATION PRIOR TO CONSTRUCTION AND RELAY TO DEPARTMENTAL REPRESENTATIVE. ASSUMED INVERT = 19.10m (0.7m BELOW EXISTING GROUND).  
CONTRACTOR TO MAKE CONNECTION TO EXISTING SEPTIC TANK UNDER SUPERVISION OF DEPARTMENTAL REPRESENTATIVE.

SEE DRAWING C-007 FOR HELIPAD UPGRADES

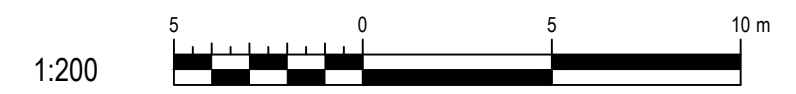
ACTIVE HELIPAD. CONTRACTOR TO MAINTAIN 24 HOUR ACCESS AT ALL TIMES, UNLESS WITH WRITTEN PRIOR APPROVAL OF DEPARTMENTAL REPRESENTATIVE. CONTRACTOR TO LIMIT LOOSE MATERIAL STORAGE WITHIN 10m OF EDGE OF HELIPAD.

BUILDING ROOF STORMWATER EXFILTRATION GALLERY. INSTALL (2) STORMTECH SC-740 CHAMBERS c/w END CAPS (OR EQUIVALENT) AND CONNECT TO DCO1.  
1.2m X 9000 PRECAST SOLID BOTTOM CONCRETE LAWN BASIN c/w 6000 SOLID CASTING MARKED "STORM". INSTALL INLET AND OUTLET CONNECTIONS MIN. 300mm FROM BOTTOM OF BASIN. SEE MECHANICAL FOR BUILDING CONNECTION DETAILS.

SEE ELECTRICAL DRAWINGS FOR DETAILS ON NEW ELECTRICAL AND COMMUNICATIONS CONDUITS. CONTRACTOR TO MAKE CONNECTIONS TO EXISTING ELECTRICAL VAULT UNDER SUPERVISION OF DEPARTMENTAL REPRESENTATIVE. ALL WORK REQUIRES PRE-APPROVAL BY DEPARTMENTAL REPRESENTATIVE PRIOR TO EXECUTION.

EXISTING POWER, COMMUNICATIONS AND FIBER OPTIC LINES ARE CRITICAL CCG INFRASTRUCTURE. SYSTEMS TO REMAIN UNDISTURBED AND OPERATIONAL DURING CONSTRUCTION. ALL WORK ON FIBER OPTIC LINES REQUIRES PRE-APPROVAL PRIOR TO EXECUTION.

INSTALL 60m OF 38mmØ WATER SERVICE TO BUILDING. CONNECTION TO EXISTING 150Ø WATERMAIN TO BE COMPLETED BY TOWN OF UCLUELET FORCES. CONTRACTOR TO PROVIDE MINIMUM 48 HOURS NOTICE TO TOWN TO COORDINATE CONNECTION.



1	REISSUED FOR TENDER	SMC	2019-02-27
0	ISSUED FOR TENDER	SMC	2018-10-02
rev	description	by	date

Asset - Actif

**WM104 AMPHITRITE POINT  
EQUIPMENT BUILDING**

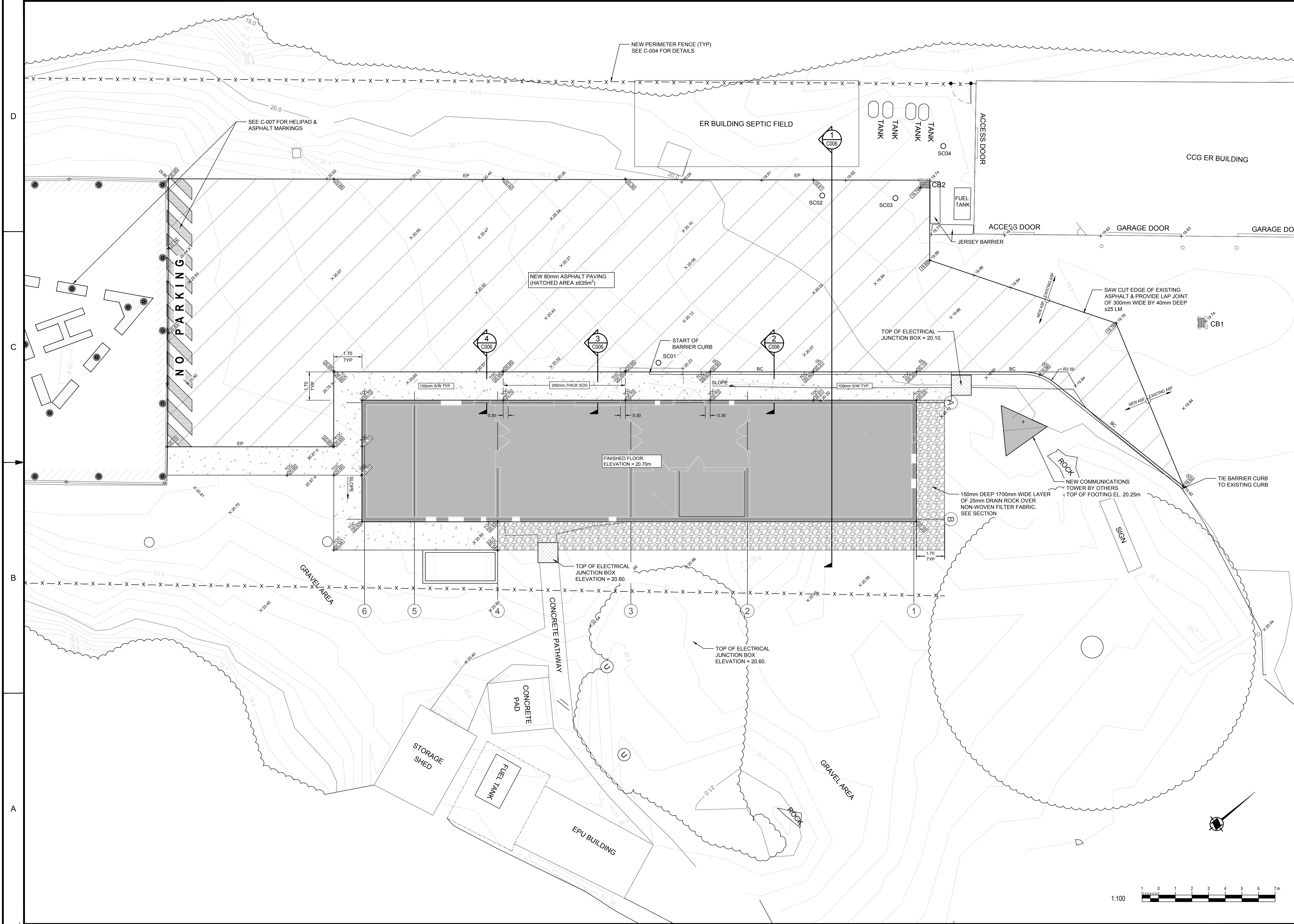
**NEW BUILDING  
SERVICING PLAN**

drawn - dessiné	date
TDK	2018-08-27
designed - conception	date
SMC	2018-08-27
checked - vérifié	date
SMC	2018-10-02
approved - approuvé	date
-	-

CCG ref. no. - no. réf. GCC	scale - échelle
WM104-1024	1:200
drawing no. - no. dessin	sheet/feuille
C-004	4 OF 7
	rev-rév
	1

Vendor Information / Sous-traitant

- EXISTING GRADE MARK
- FINISHED GRADE MARK
- TOP OF CONCRETE
- GUTTER LINE
- EDGE OF PAVEMENT
- NEW CONCRETE BARRIER CURB  
150mm x 300mm DEEP ON  
COMPACTED GRAVEL BASE
- NEW FENCE LINE



1	REISSUED FOR TENDER	SMC	2019-02-27
0	ISSUED FOR TENDER	SMC	2018-10-02
rev	description	by	date

Asset - Actif

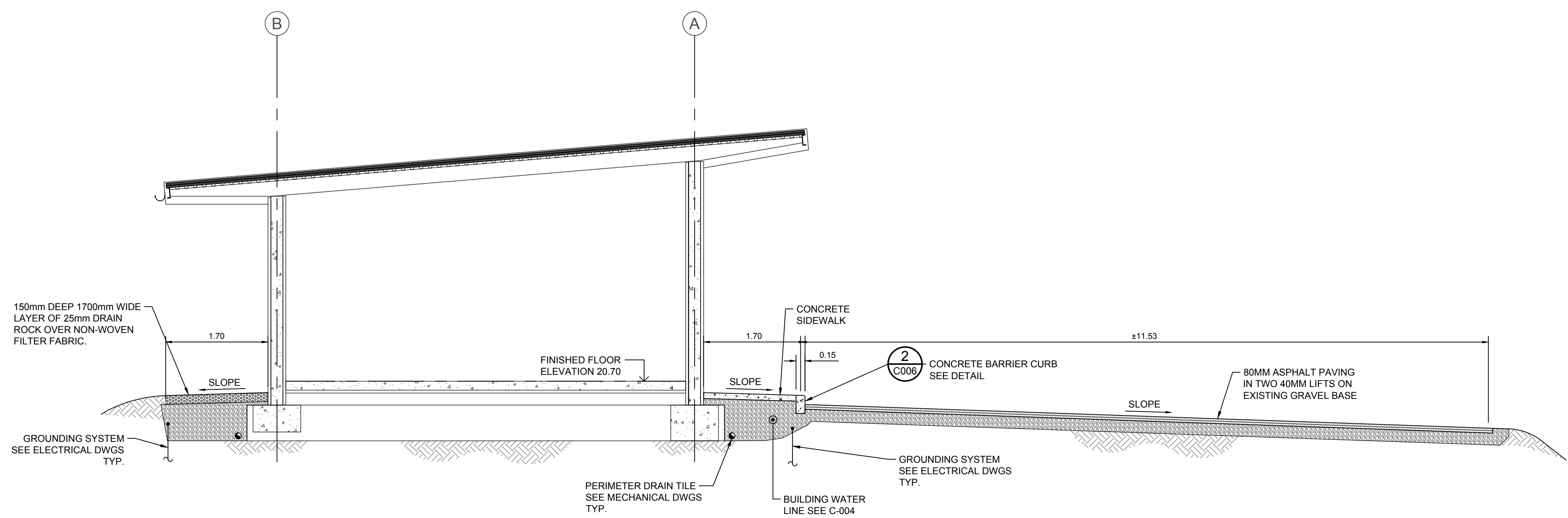
**WM104 AMPHITRITE POINT  
EQUIPMENT BUILDING**

**NEW BUILDING SITE  
GRADING PLAN**

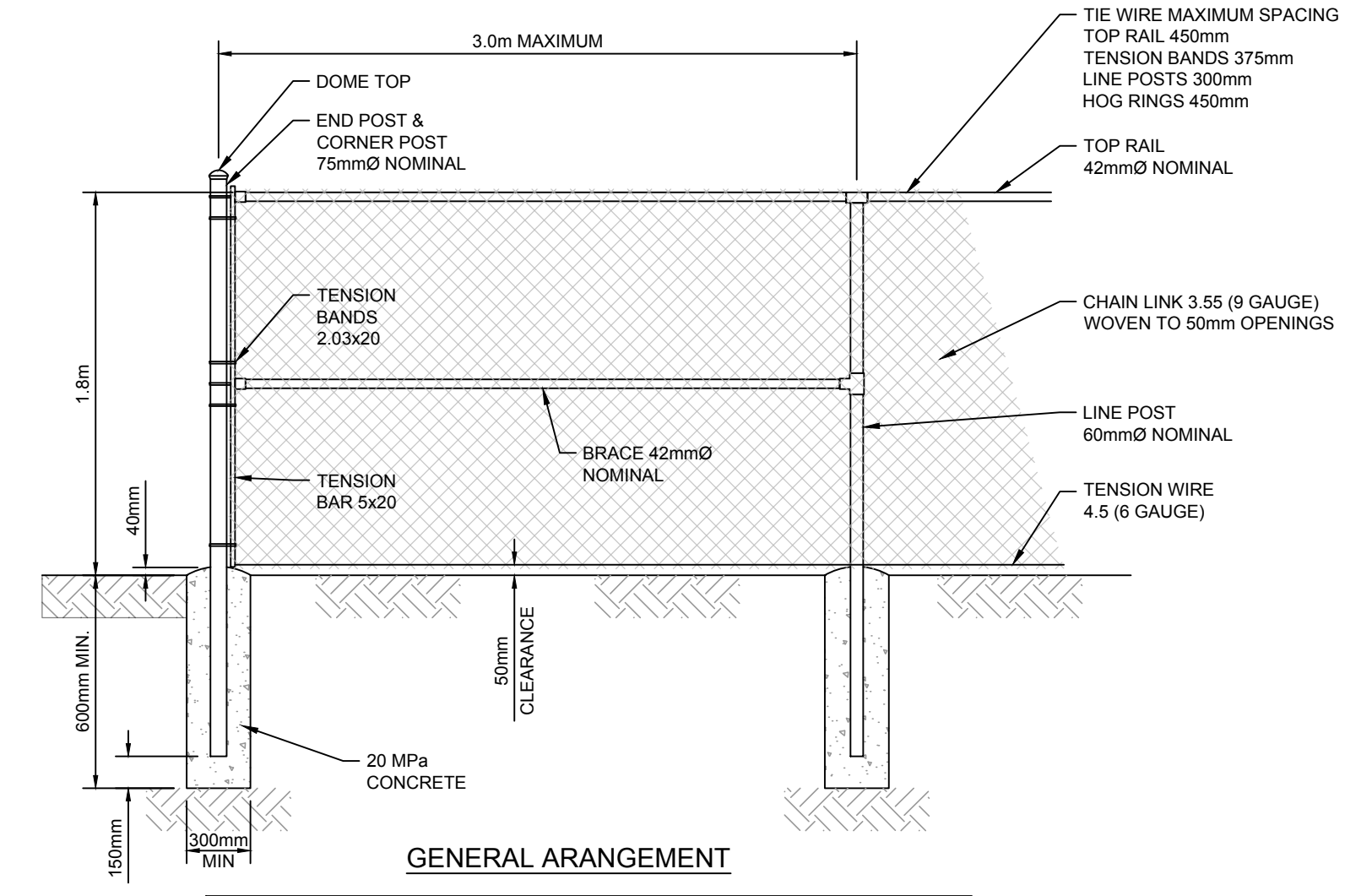
drawn - dessiné	date
TDK	2018-08-27
designed - conception	date
SMC	2018-08-27
checked - vérifié	date
SMC	2018-10-02
approved - approuvé	date
-	-

CCG ref. no. - no. réf. GCC	scale - échelle
WM104-1024	1:100
drawing no. - no. dessin	sheet/feuille
C-005	5 OF 7
	rev-rév
	1

Vendor Information / Sous-traitant

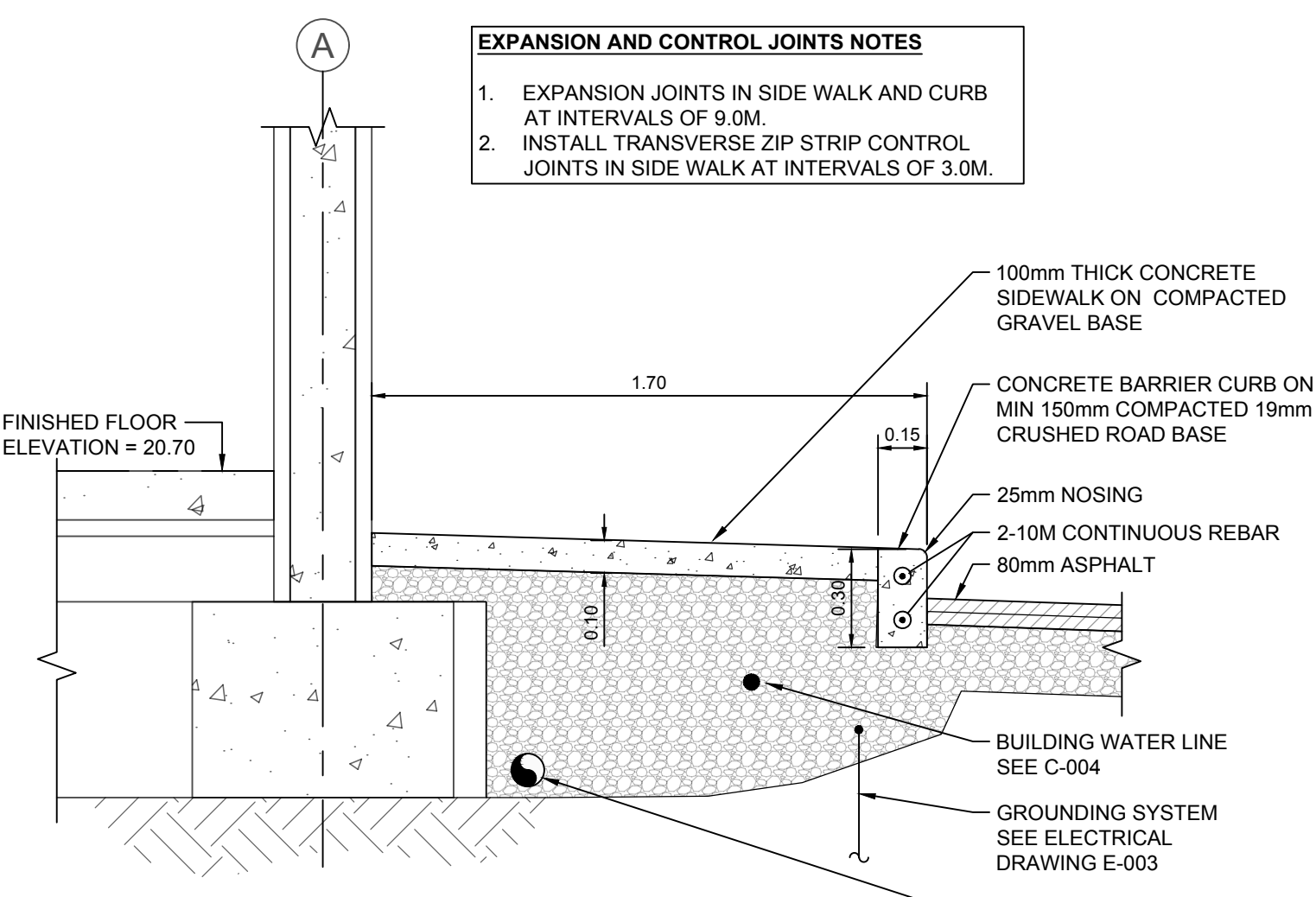


SECTION 1 BUILDING & PARKING LOT  
SCALE: 1:50  
C006

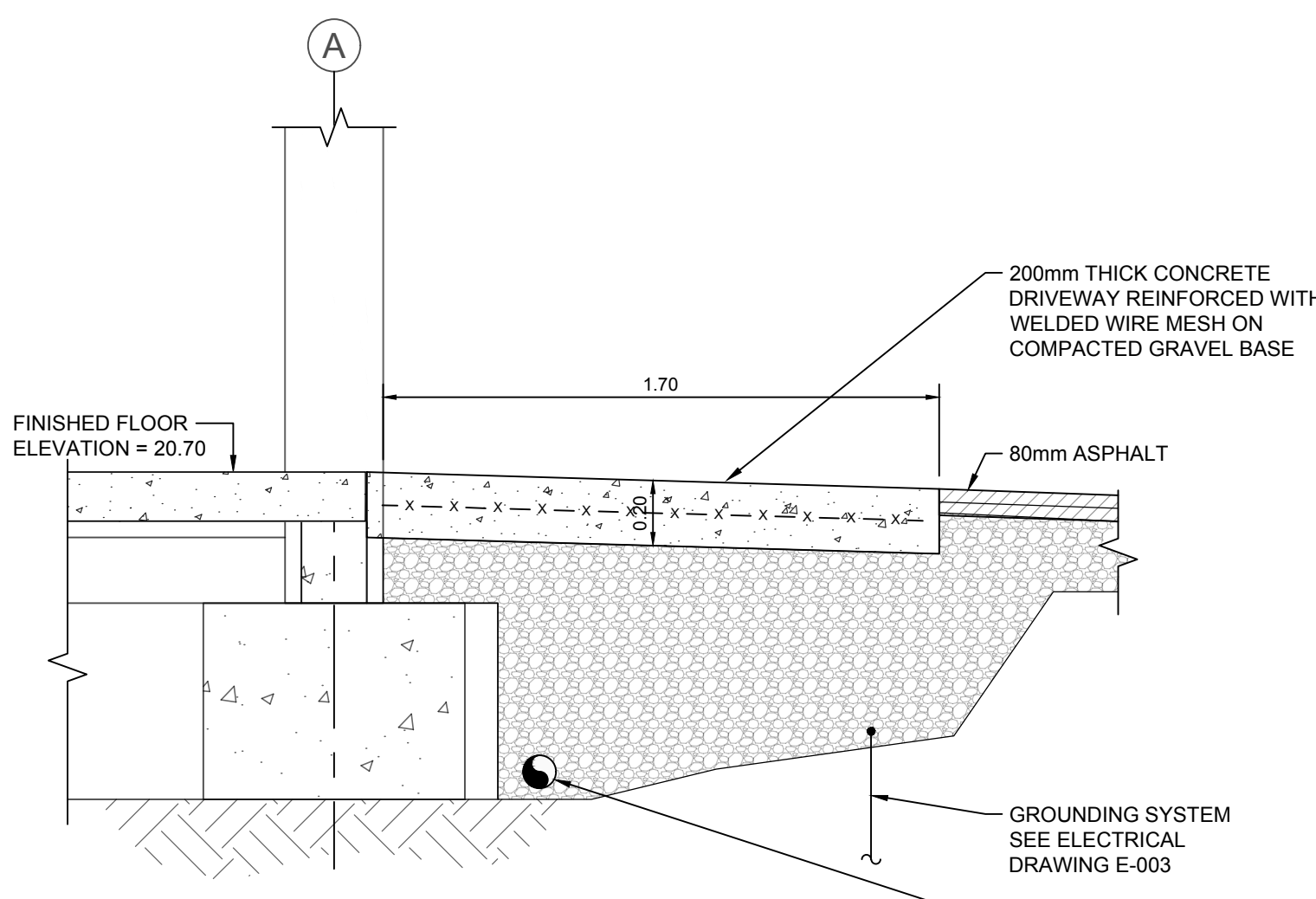


GENERAL ARRANGEMENT  
NOTES:  
1. FOR THE PURPOSE OF CLARITY, DETAILS OF TENSION BARS, TENSION BANDS AND MISCELLANEOUS FITTINGS NOT SHOWN ON DRAWING.  
2. ALL RAILS AND POSTS SCHEDULE 40 PIPE.  
3. GATE POSTS AS SPECIFIED (89mm NOMINAL MINIMUM).  
DETAIL 9 TYPICAL CHAINLINK FENCE  
SCALE: 1:30  
C007

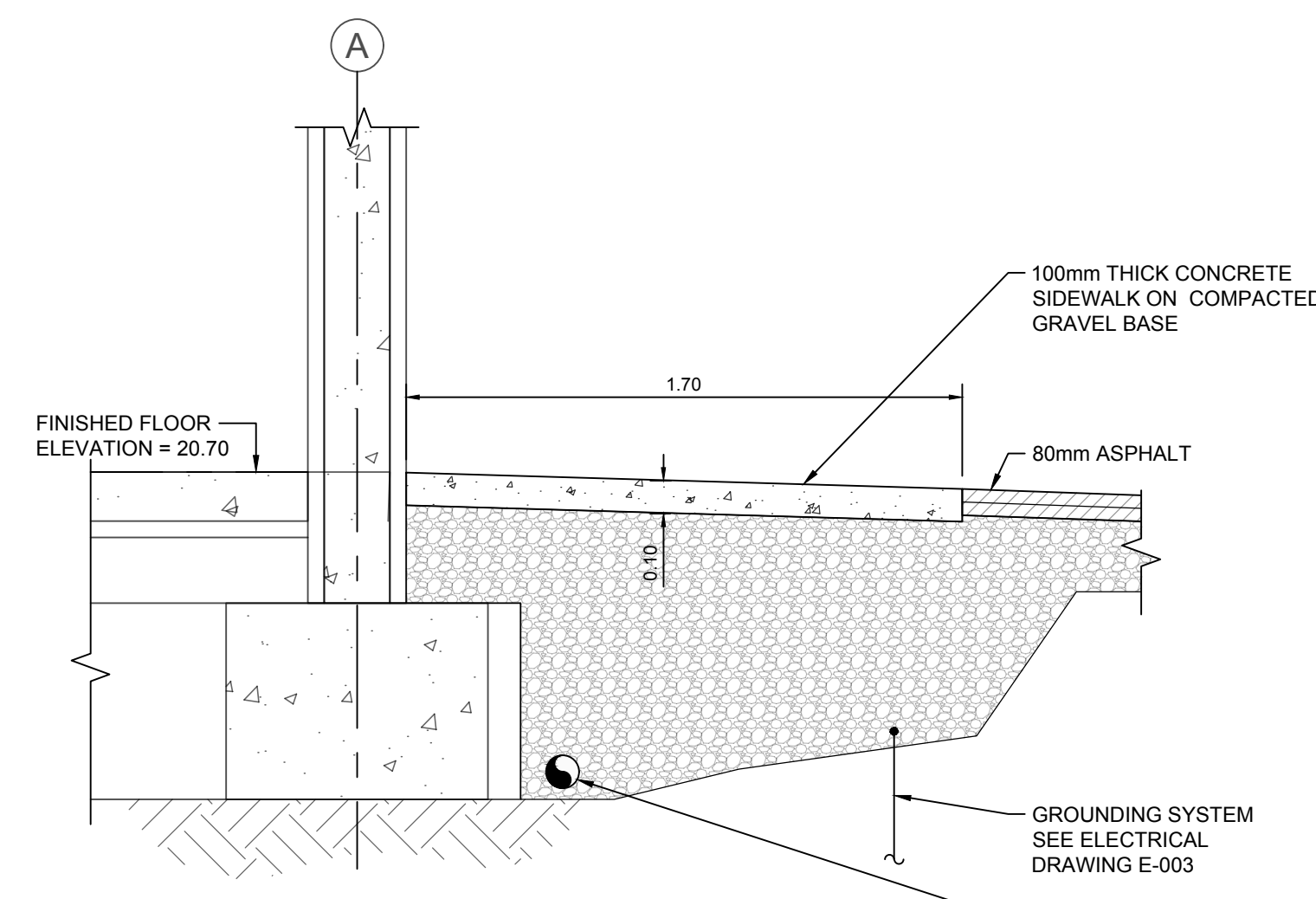
EXPANSION AND CONTROL JOINTS NOTES  
1. EXPANSION JOINTS IN SIDE WALK AND CURB AT INTERVALS OF 9.0M.  
2. INSTALL TRANSVERSE ZIP STRIP CONTROL JOINTS IN SIDE WALK AT INTERVALS OF 3.0M.



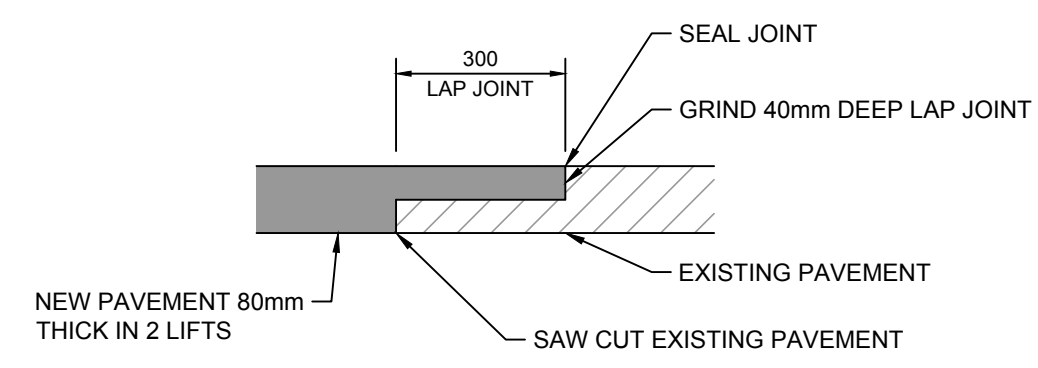
SECTION 2 SIDEWALK & CURB  
SCALE: 1:20  
C006



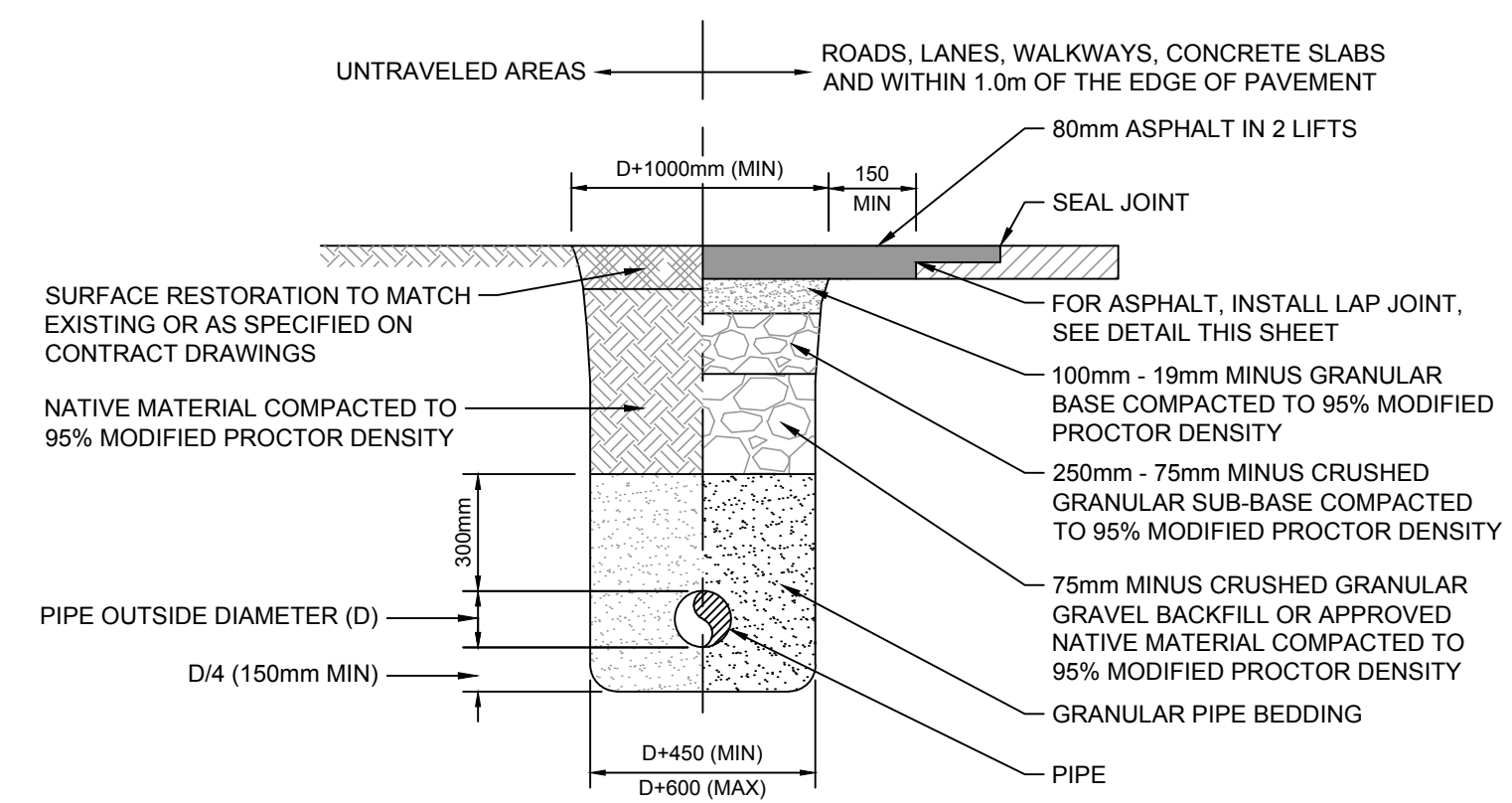
SECTION 3 SIDEWALK & CURB  
SCALE: 1:20  
C006



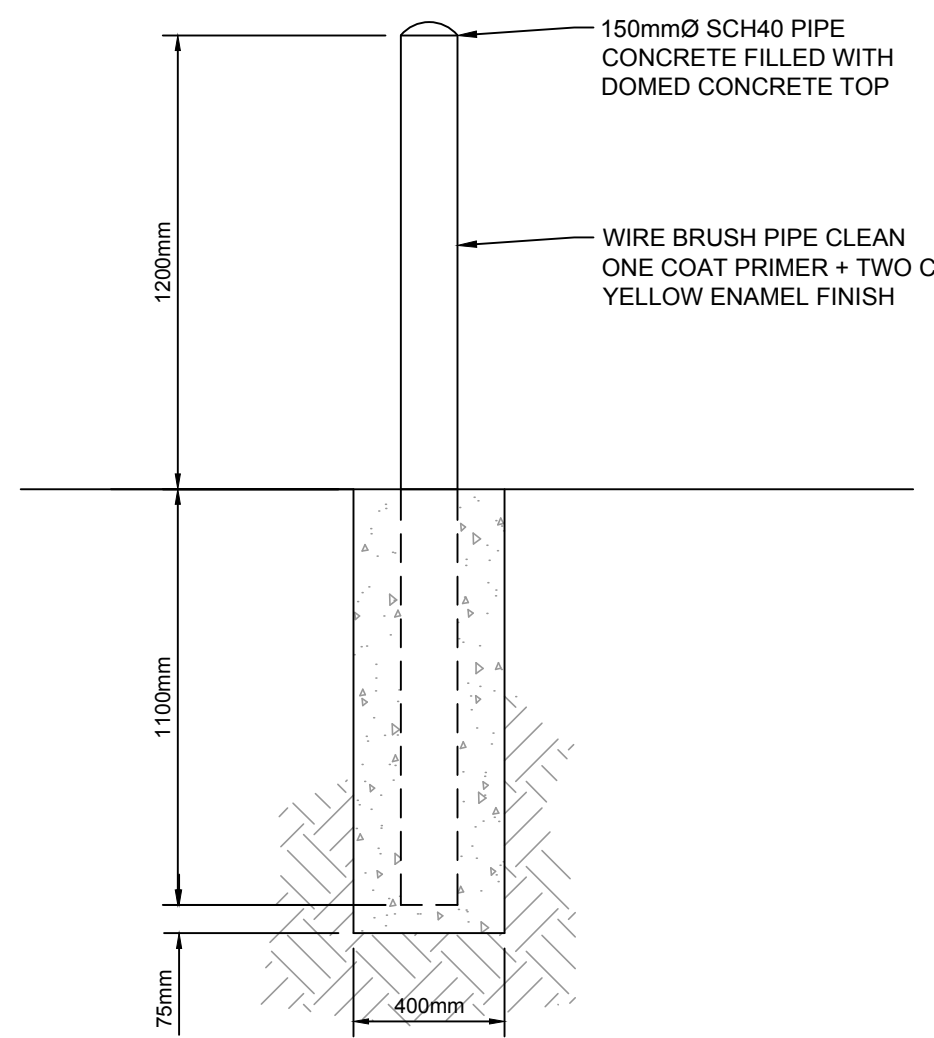
SECTION 4 SIDEWALK & CURB  
SCALE: 1:20  
C006



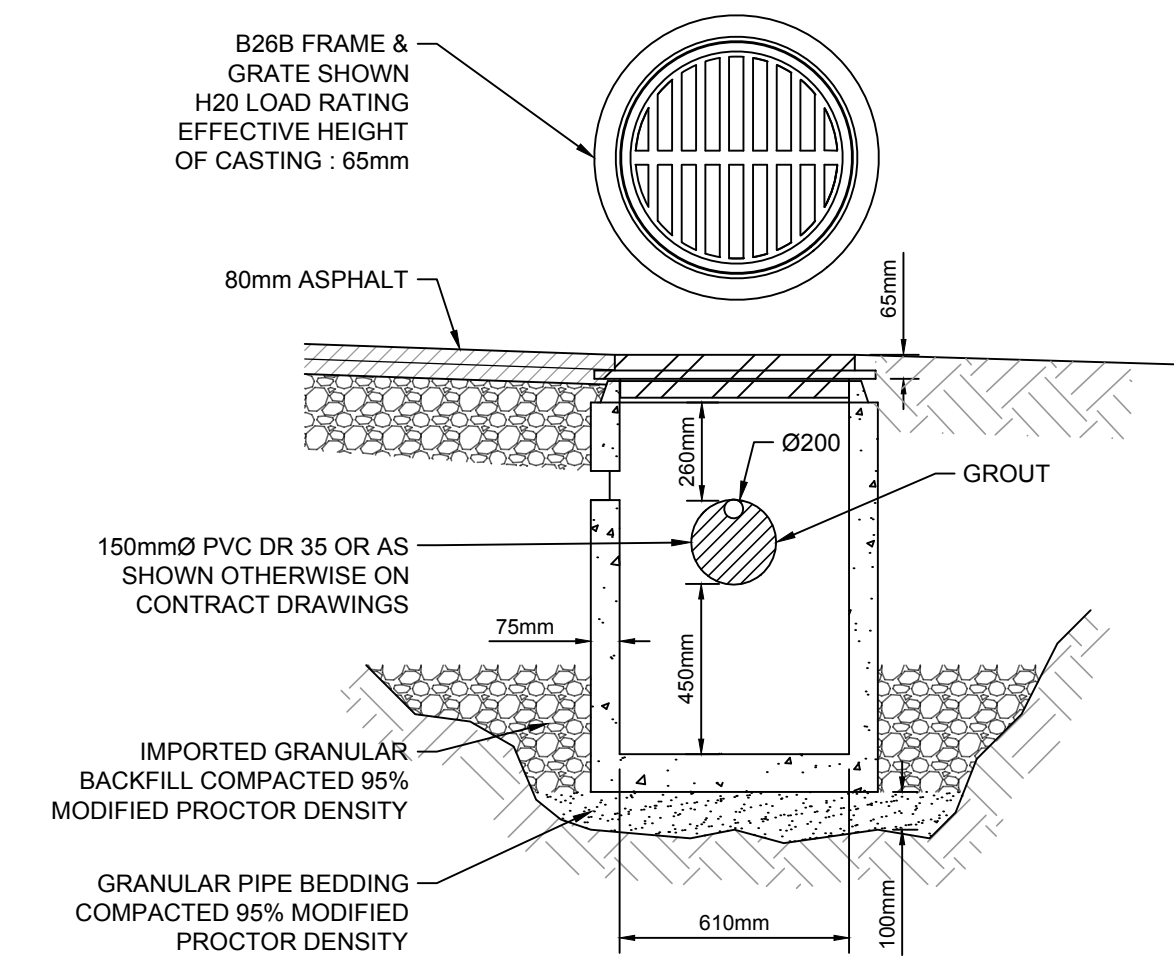
DETAIL 5 LAP JOINT  
SCALE: NTS  
C006



DETAIL 6 UTILITY TRENCH  
SCALE: NTS  
C006



DETAIL 7 TYPICAL BOLLARD  
SCALE: NTS  
C006



DETAIL 8 TYPICAL CATCH BASIN  
SCALE: NTS  
C006

1	ISSUED FOR TENDER	SMC	2019-02-27
0	ISSUED FOR TENDER	SMC	2018-10-02
rev	description	by	date

Asset - Actif  
WM104 AMPHITRITE POINT  
EQUIPMENT BUILDING

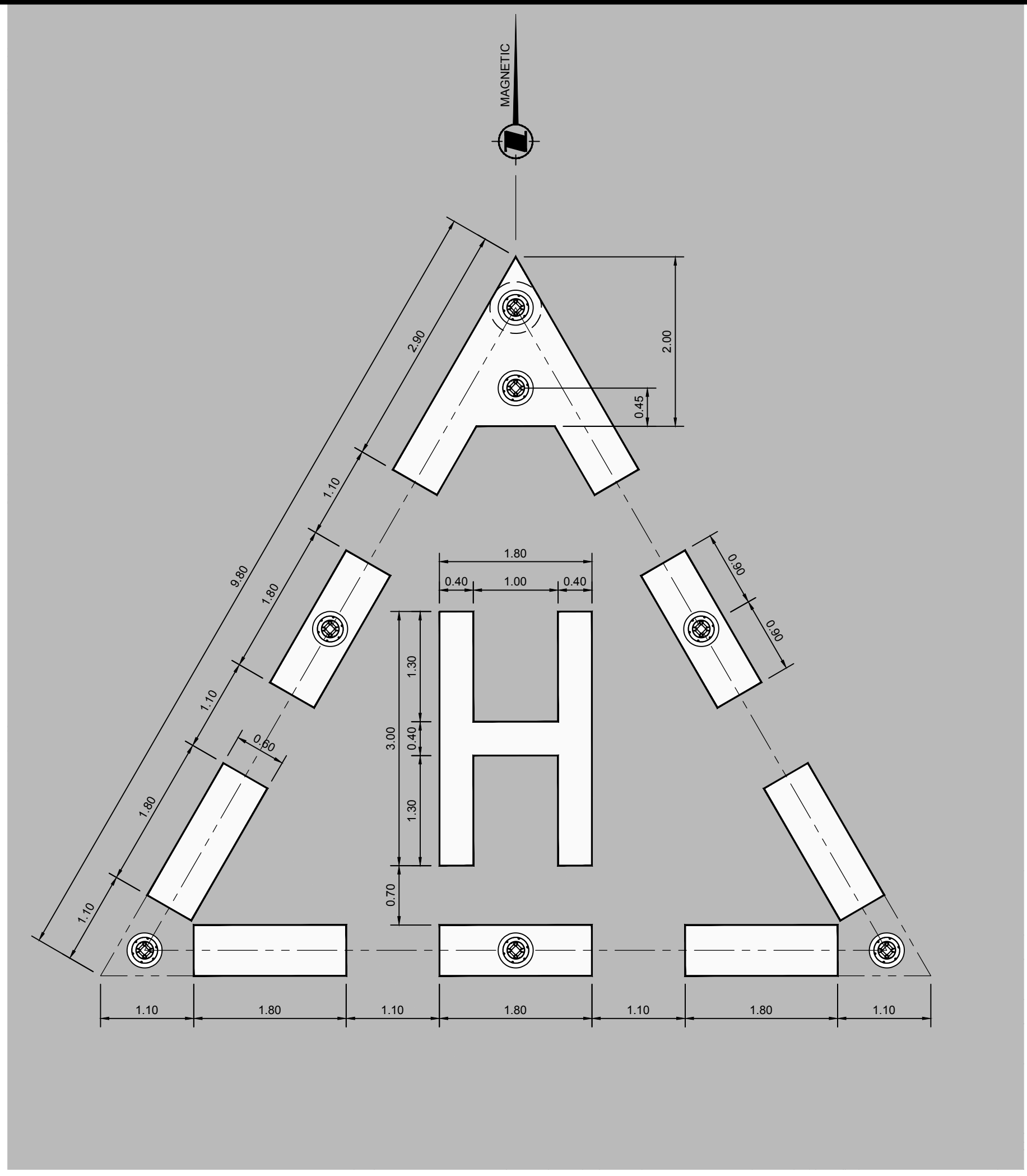
SECTIONS & DETAILS

drawn - dessiné	date
TDK	2018-08-27
designed - conception	date
SMC	2018-08-27
checked - vérifié	date
SMC	2018-10-02
approved - approuvé	date
-	-

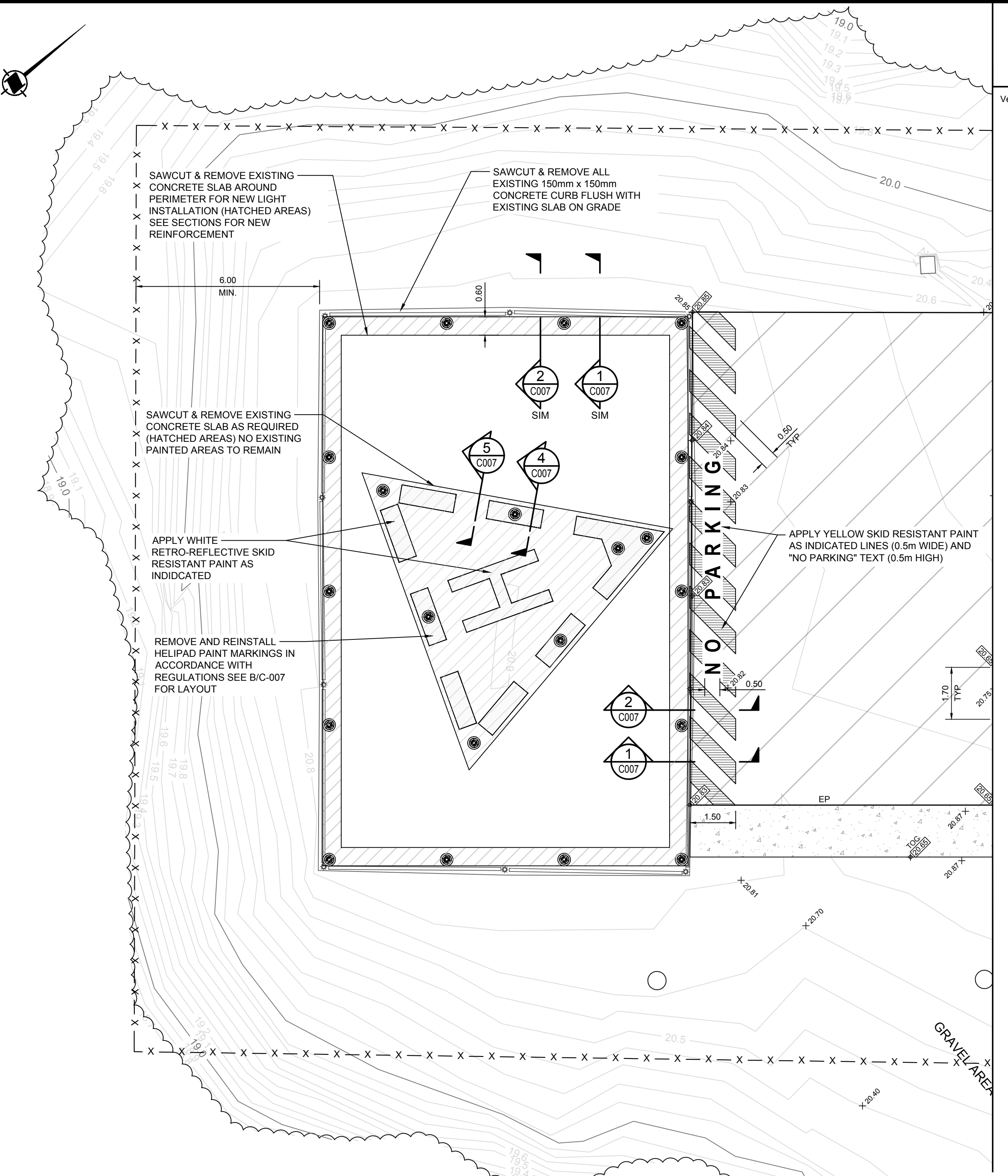
CCG ref. no. - no. réf. GCC	scale - échelle
WM104-1024	AS SHOWN
drawing no. - no. dessin	sheet/feuille
C-006	6 OF 7

Vendor Information / Sous-traitant

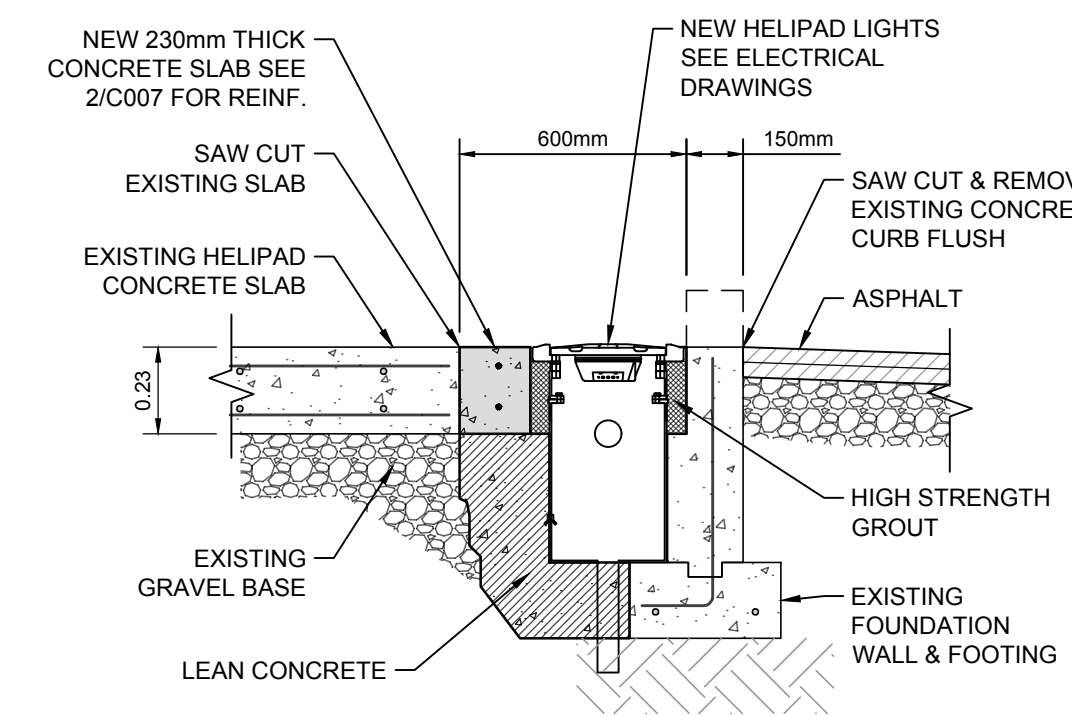
- EXISTING GRADE MARK
- FINISHED GRADE MARK
- TOP OF CONCRETE
- GUTTER LINE
- EDGE OF PAVEMENT
- NEW CONCRETE BARRIER CURB  
150mm x 300mm DEEP ON  
COMPACTED GRAVEL BASE
- NEW FENCE LINE



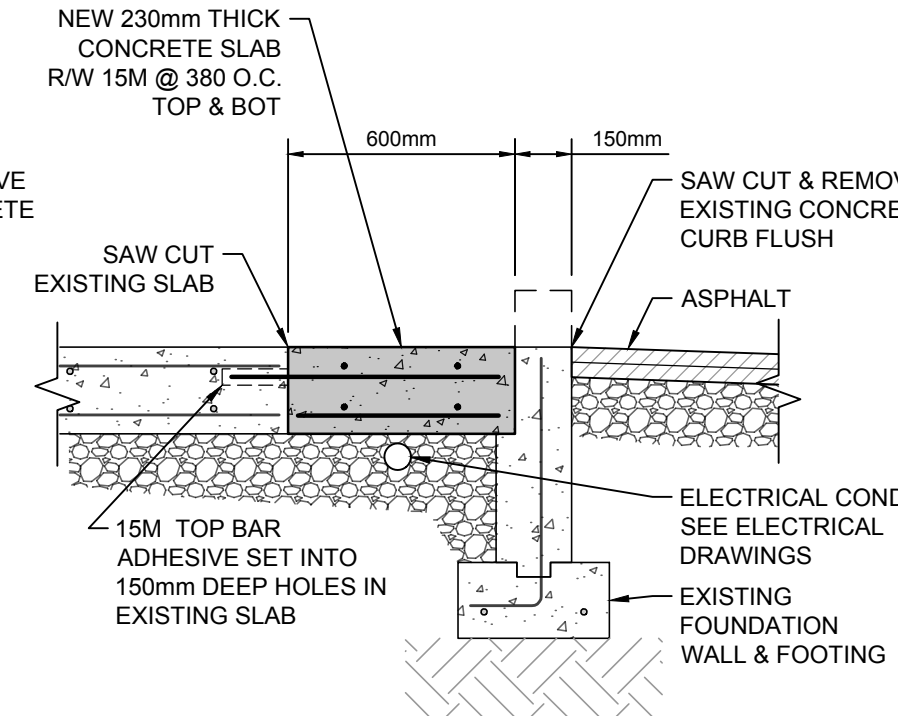
PLAN **B** HELIPAD MARKING LAYOUT  
SCALE: 1:50



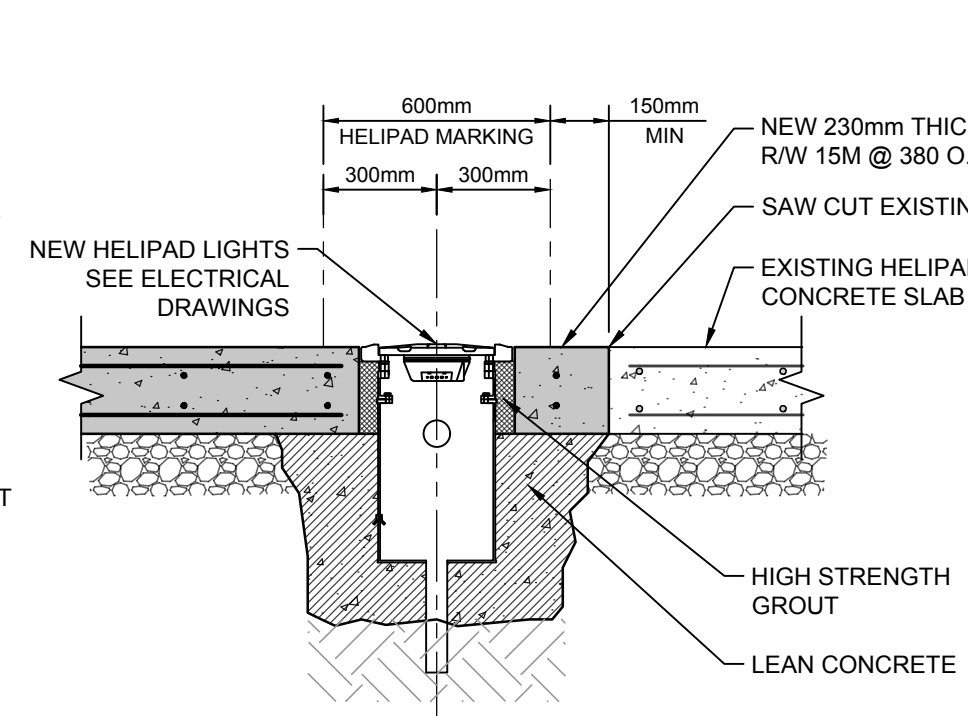
1:100 PLAN **A** HELICOPTOR PAD  
SCALE: 1:100



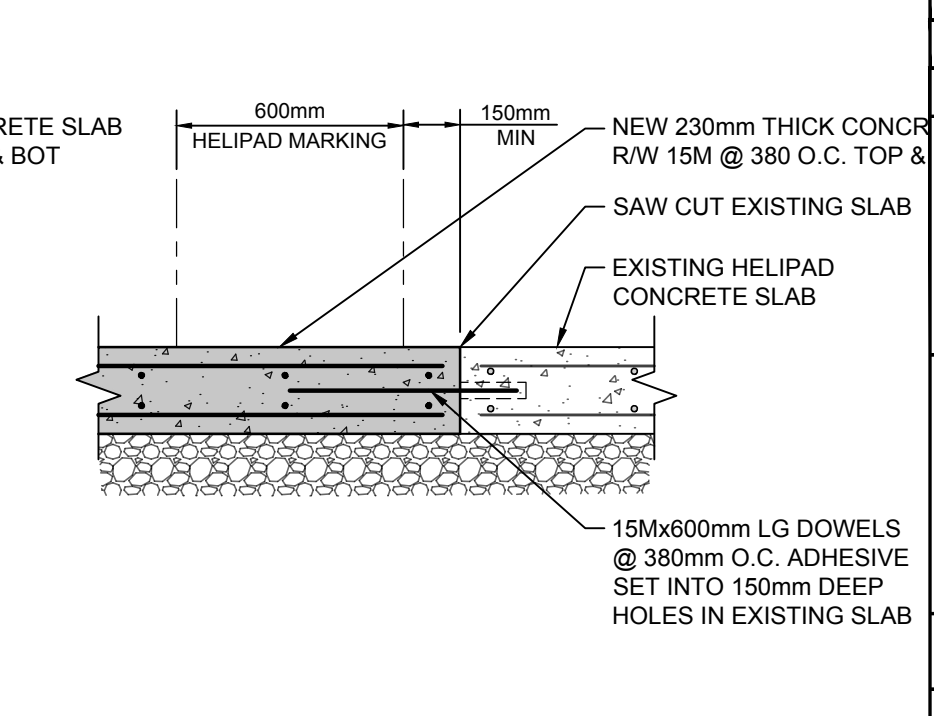
SECTION **1** HELIPAD EDGE AT LIGHT  
SCALE: 1:20



SECTION **2** HELIPAD EDGE  
SCALE: 1:20



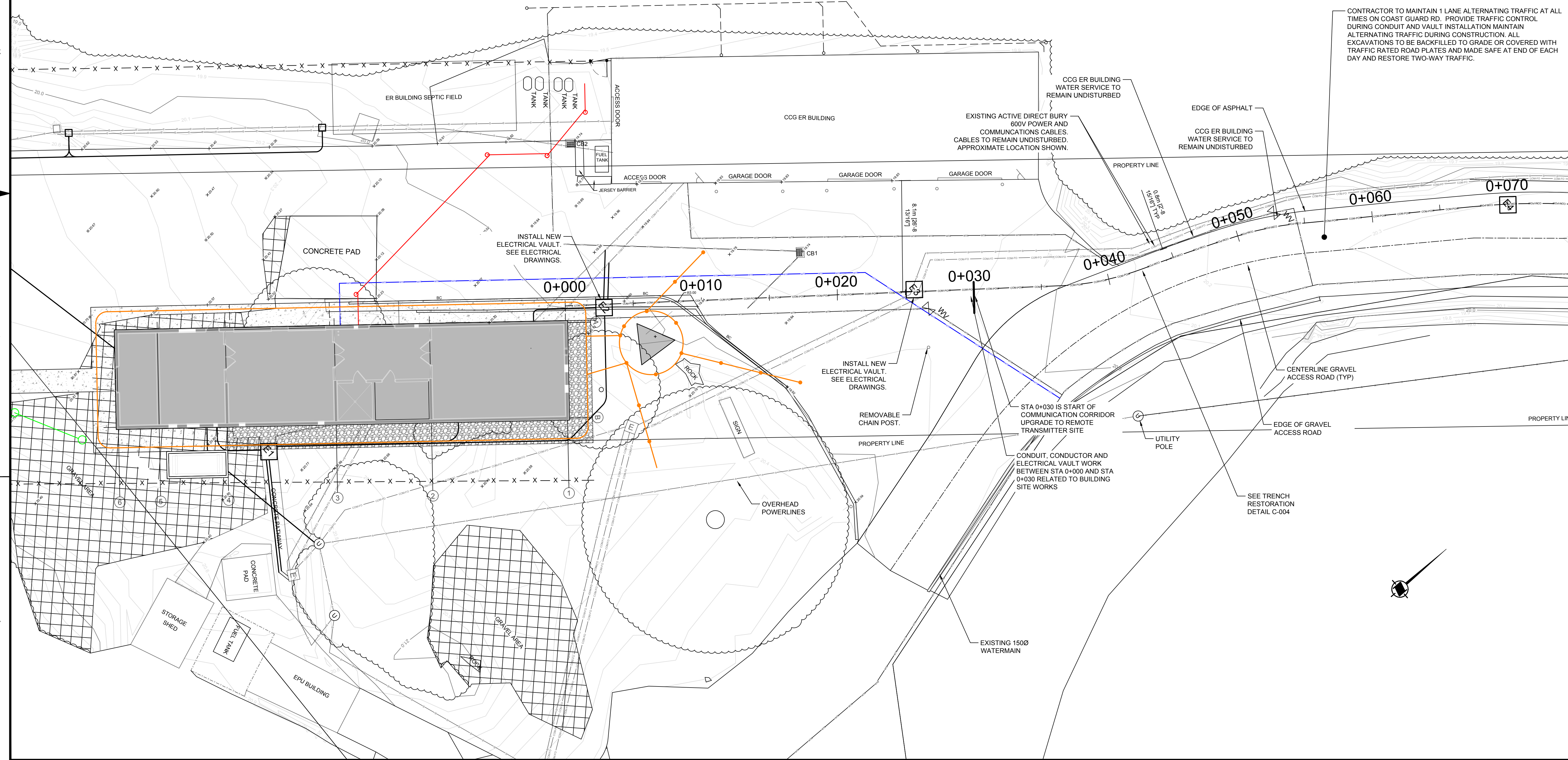
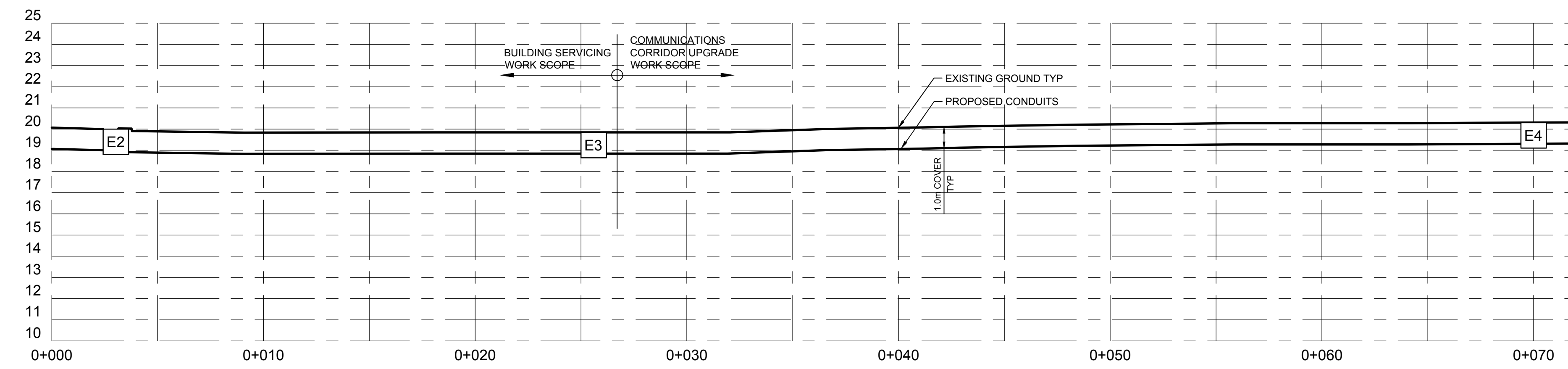
SECTION **3** HELIPAD AT LIGHT  
SCALE: 1:20



SECTION **4** HELIPAD SLAB  
SCALE: 1:20

1	REISSUED FOR TENDER	SMC	2019-02-27
0	ISSUED FOR TENDER	SMC	2018-10-02
rev	description	by	date
Asset - Actif			
<b>WM104 AMPHITRITE POINT</b>			
<b>EQUIPMENT BUILDING</b>			
Drawing - Dessin			
<b>HELIPAD UPGRADES &amp; PAINTING DETAILS</b>			
drawn - dessiné			date
TDK			2018-08-27
designed - conception			date
SMC			2018-08-27
checked - vérifié			date
SMC			2018-10-02
approved - approuvé			date
-			
CCG ref. no. - no. réf. GCC			scale - échelle
WM104-1024			1:100
drawing no. - no. dessin			sheet/feuille
C-007			7 OF 7
			1





CONTRACTOR TO MAINTAIN 1 LANE ALTERNATING TRAFFIC AT ALL TIMES ON COAST GUARD RD. PROVIDE TRAFFIC CONTROL DURING CONDUIT AND VAULT INSTALLATION MAINTAIN ALTERNATING TRAFFIC DURING CONSTRUCTION. ALL EXCAVATIONS TO BE BACKFILLED TO GRADE OR COVERED WITH TRAFFIC RATED ROAD PLATES AND MADE SAFE AT END OF EACH DAY AND RESTORE TWO-WAY TRAFFIC.

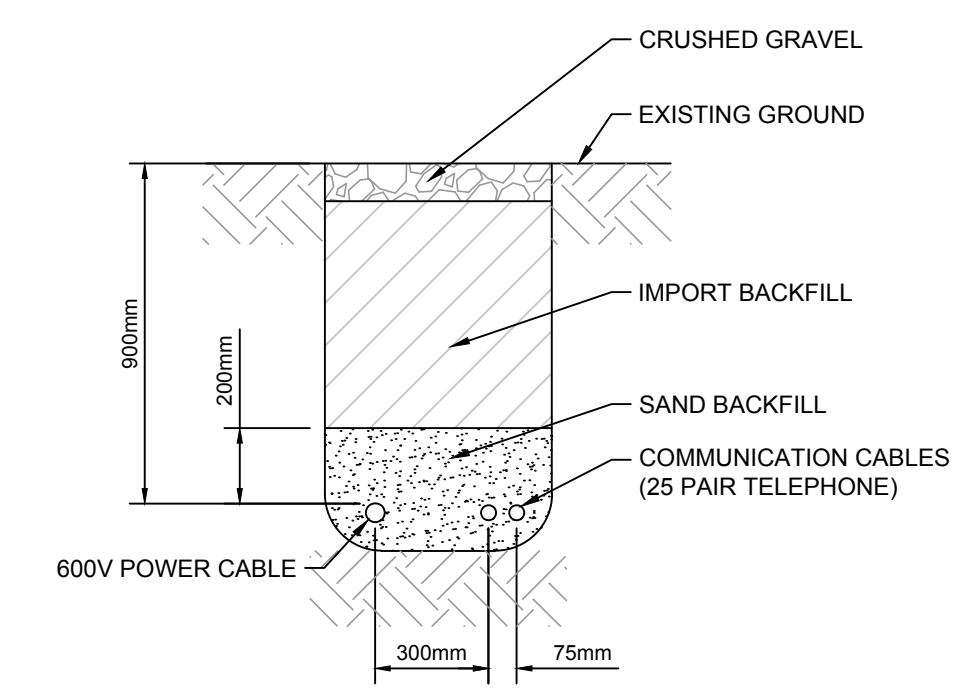
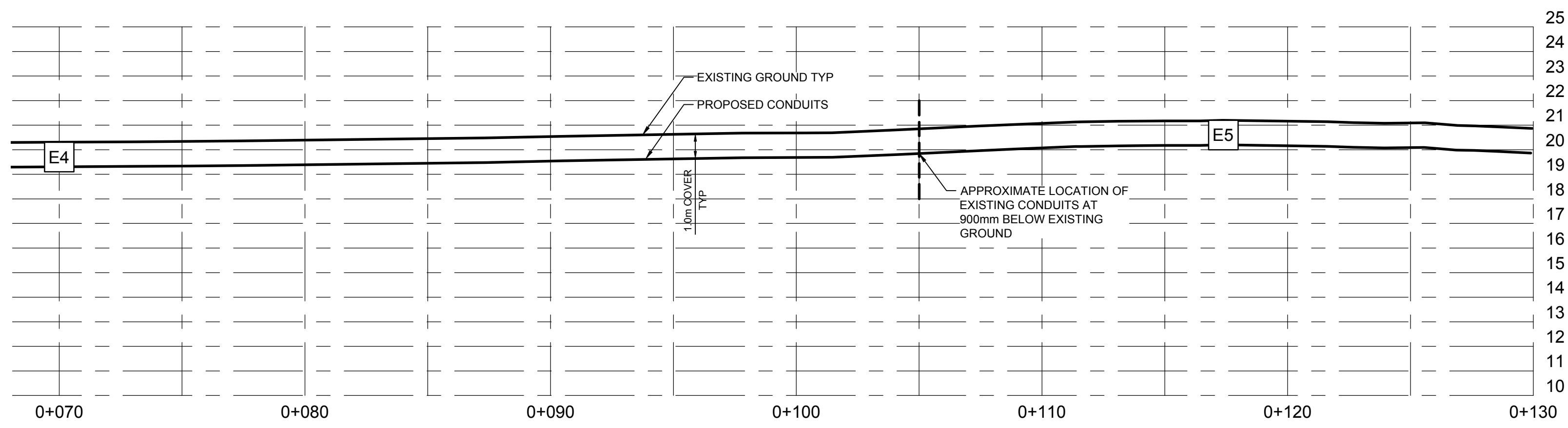
1	REISSUED FOR TENDER	SMC	2019-02-27
0	ISSUED FOR TENDER	SMC	2018-10-02
rev	description	by	date

**WM104 AMPHITRITE POINT  
EQUIPMENT BUILDING**

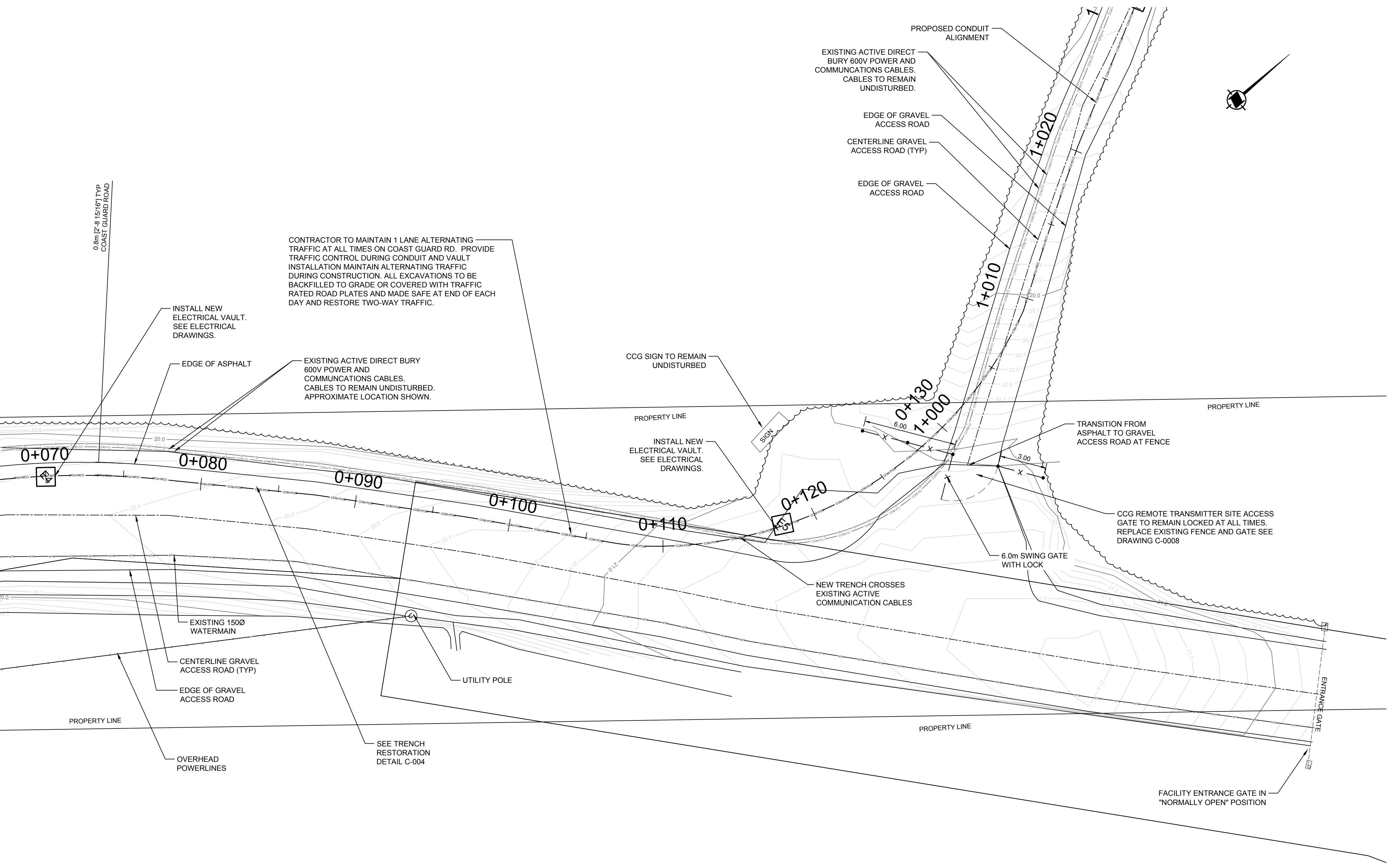
**CONDUIT PLAN & PROFILE  
STA 0+000 TO 0+070**

drawn - dessiné	date
TDK	2018-08-27
designed - conception	date
SMC	2018-08-27
checked - vérifié	date
SMC	2018-10-02
approved - approuvé	date
-	-

CCG ref. no. - no. réf. GCC	scale - échelle
WM104-1024	1:150
drawing no. - no. dessin	sheet/feuille
C-201	1 OF 4

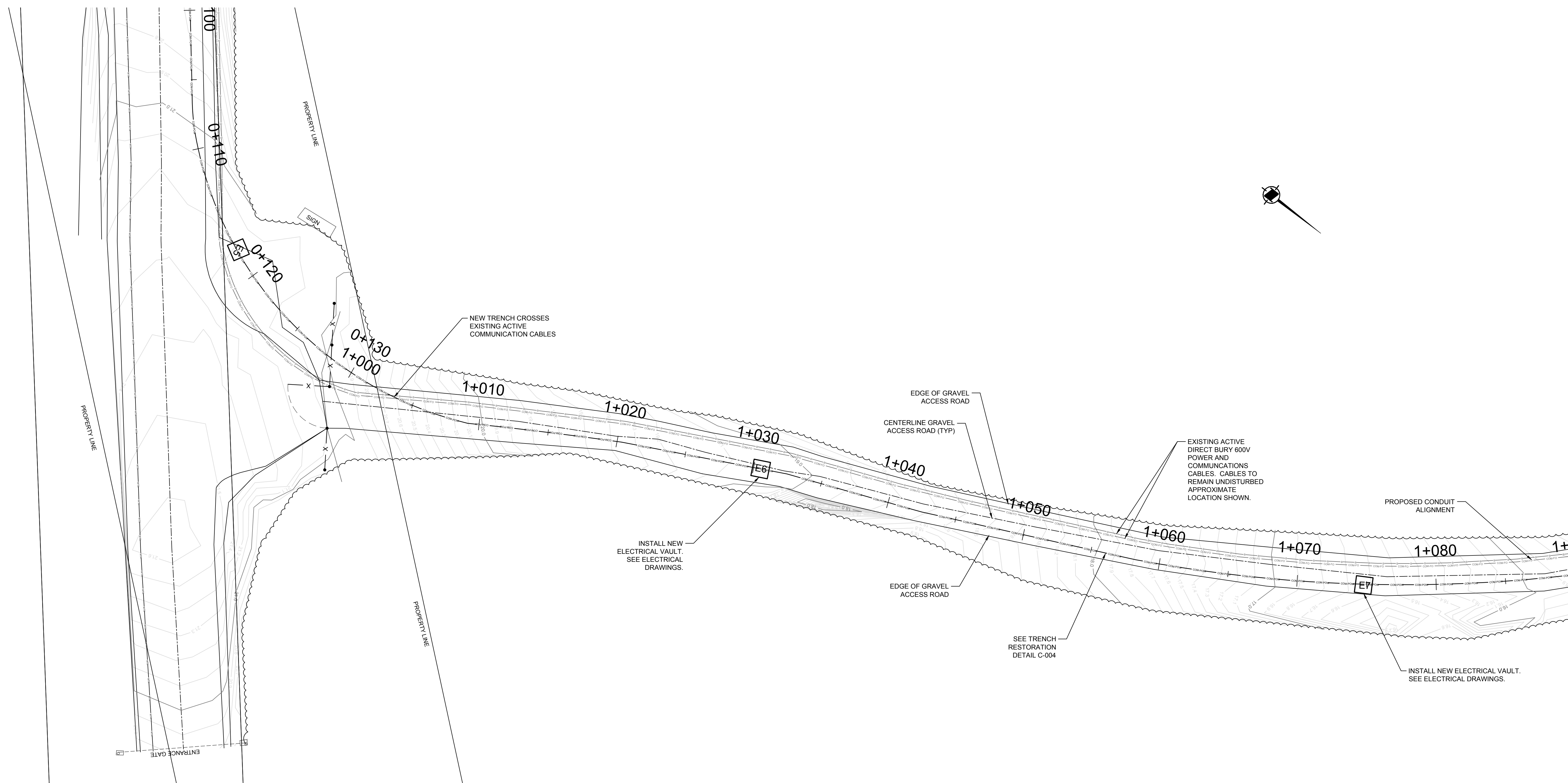
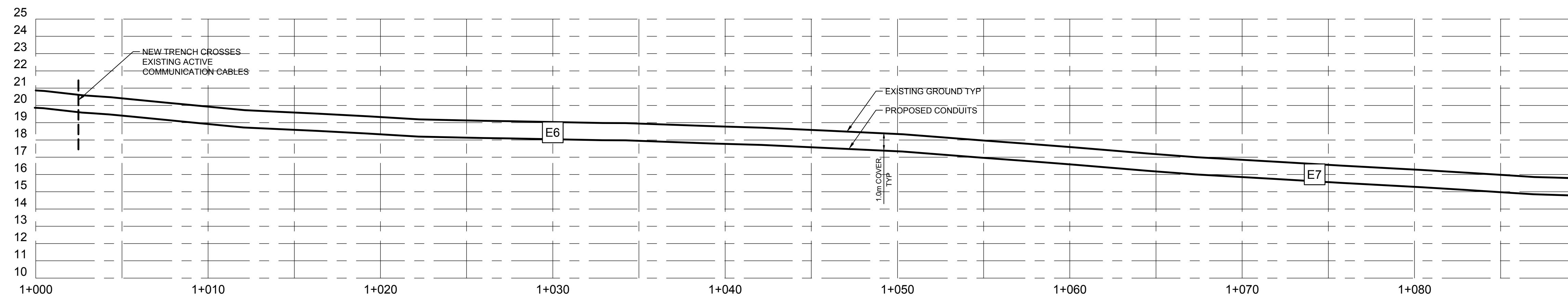


DETAIL 1  
SCALE: NTS  
C202  
EXISTING POWER & COMMUNICATIONS TRENCH



1	REISSUED FOR TENDER	SMC	2019-02-27
0	ISSUED FOR TENDER	SMC	2018-10-02
rev	description	by	date
Asset - Actif			
<b>WM104 AMPHITRITE POINT</b>			
<b>EQUIPMENT BUILDING</b>			
Drawing - Dessin			
<b>CONDUIT PLAN &amp; PROFILE</b>			
<b>STA 0+070 TO 0+130</b>			
drawn - dessiné			date
TDK			2018-08-27
designed - conception			date
SMC			2018-08-27
checked - vérifié			date
SMC			2018-10-02
approved - approuvé			date
-			-
CCG ref. no. - no. réf. GCC			scale - échelle
WM104-1024			1:150
drawing no. - no. dessin			sheet/feuille
C-202			2 OF 4
			rev-rév
			1

Vendor Information / Sous-traitant



1	REISSUED FOR TENDER	SMC	2019-02-27
0	ISSUED FOR TENDER	SMC	2018-10-02
rev	description	by	date

Asset - Actif

**WM104 AMPHITRITE POINT  
EQUIPMENT BUILDING**

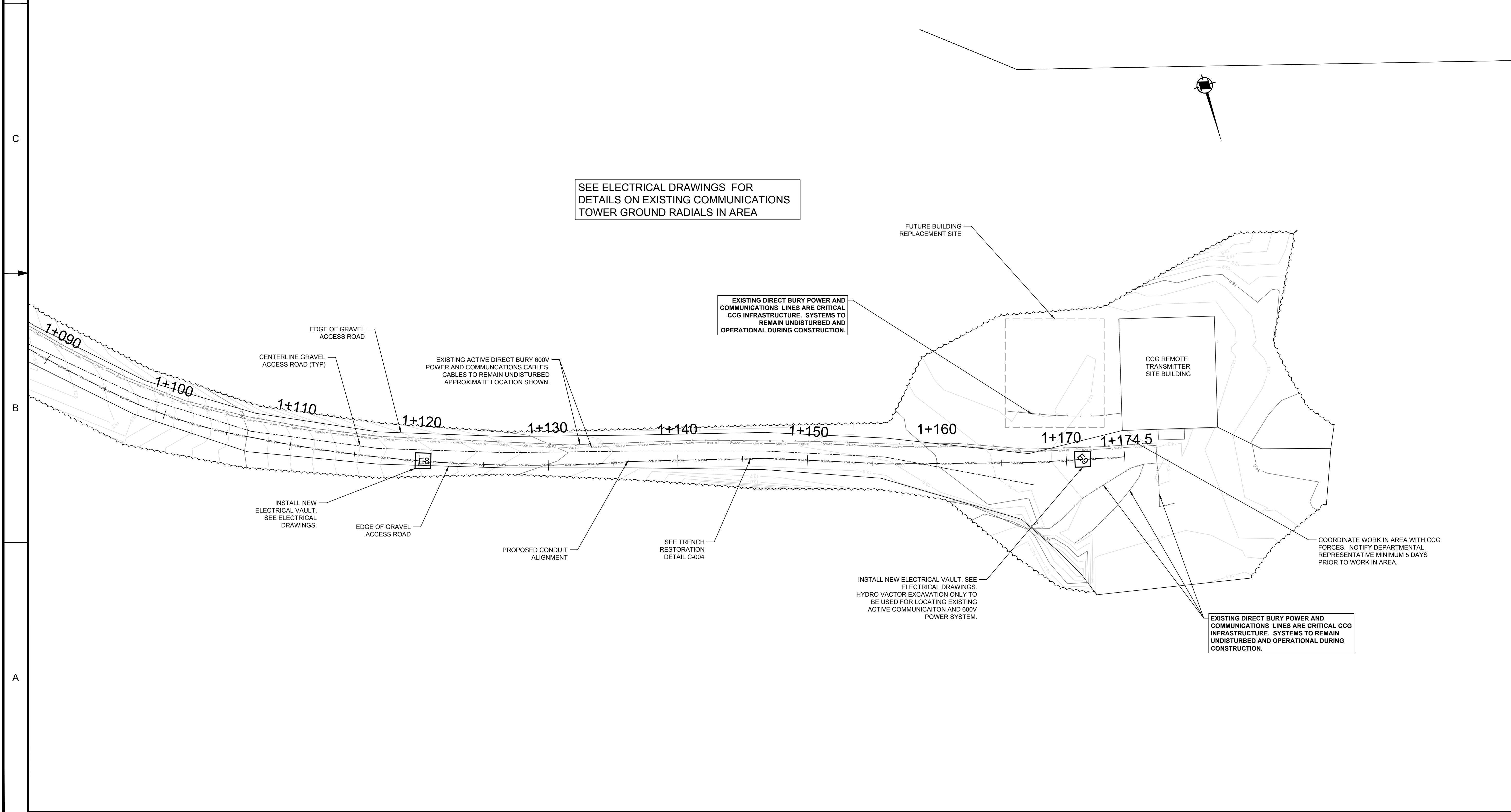
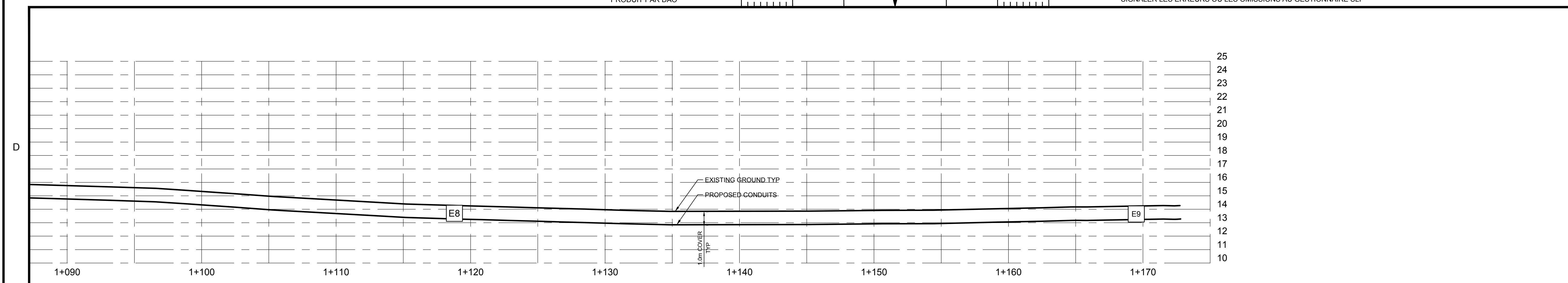
Drawing - Dessin

**CONDUIT PLAN & PROFILE  
STA 1+000 TO 1+090**

drawn - dessiné	date
TDK	2018-08-27
designed - conception	date
SMC	2018-08-27
checked - vérifié	date
SMC	2018-10-02
approved - approuvé	date
-	-

CCG ref. no. - no. réf. GCC	scale - échelle
WM104-1024	1:150
drawing no. - no. dessin	sheet/feuille
C-203	3 OF 4
	rev-rév
	1

Vendor Information / Sous-traitant



SEE ELECTRICAL DRAWINGS FOR  
DETAILS ON EXISTING COMMUNICATIONS  
TOWER GROUND RADIALS IN AREA

EXISTING DIRECT BURY POWER AND  
COMMUNICATIONS LINES ARE CRITICAL  
CCG INFRASTRUCTURE. SYSTEMS TO  
REMAIN UNDISTURBED AND  
OPERATIONAL DURING CONSTRUCTION.

EXISTING DIRECT BURY POWER AND  
COMMUNICATIONS LINES ARE CRITICAL CCG  
INFRASTRUCTURE. SYSTEMS TO REMAIN  
UNDISTURBED AND OPERATIONAL DURING  
CONSTRUCTION.

1	REISSUED FOR TENDER	SMC	2019-02-27
0	ISSUED FOR TENDER	SMC	2018-10-02
rev	description	by	date
		par	

Asset - Actif

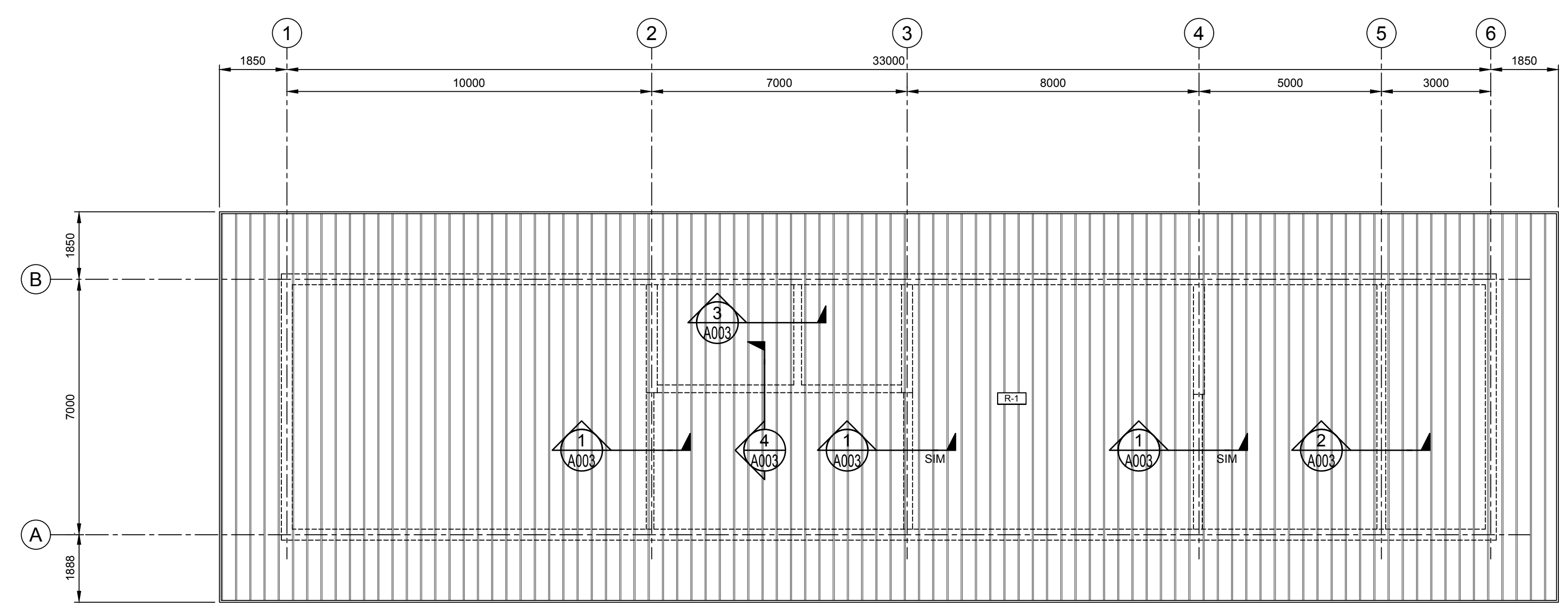
**WM104 AMPHITRITE POINT  
EQUIPMENT BUILDING**

Drawing - Dessin

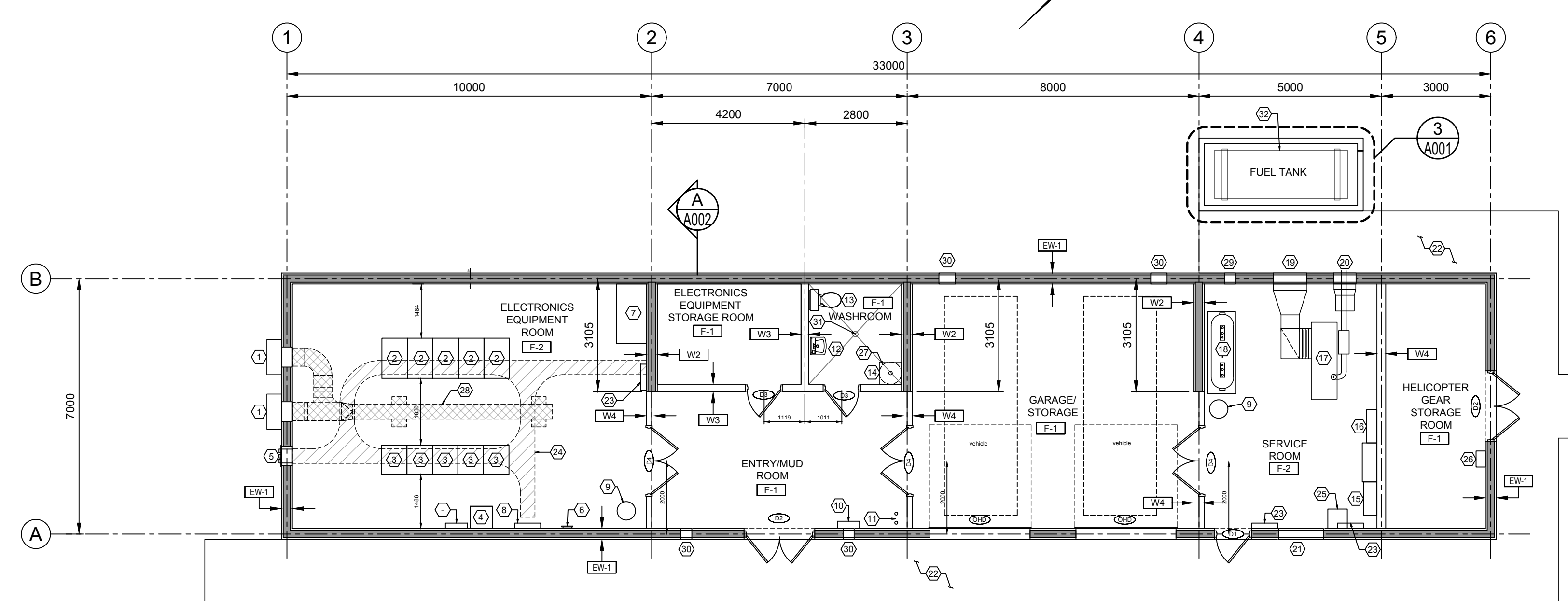
**CONDUIT PLAN & PROFILE  
STA 1+090 TO 1+175**

drawn - dessiné	date
TDK	2018-08-27
designed - conception	date
SMC	2018-08-27
checked - vérifié	date
SMC	2018-10-02
approved - approuvé	date
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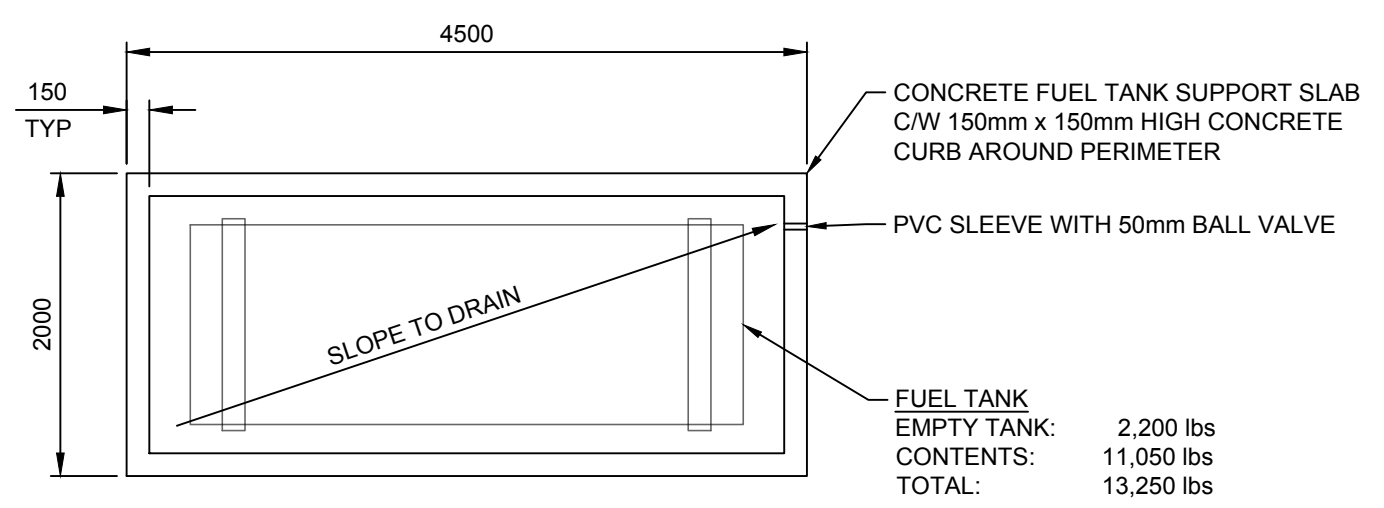
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WM104-1024	1:150
drawing no. - no. dessin	sheet/feuille
C-204	4 OF 4
	rev-rév
	1



PLAN 2 ROOF  
 SCALE: 1:100  
 A-001



PLAN 1 GROUND FLOOR  
 SCALE: 1:100  
 A-001



PLAN 3 FUEL TANK SUPPORT PAD  
 SCALE: 1:50  
 A001

ROOF SCHEDULE	
TYPE	DESCRIPTION
R-1	METAL SHEATHING ON RIGID INSULATION SEE BUILDING ENVELOPE DRAWINGS

DOOR SCHEDULE			
TYPE	DESCRIPTION	ROUGH OPENING	WINDOW
D1	EXTERIOR STEEL DOOR 914mm x 2032mm [3'-0" x 6'-8"]	1029mm x 2089mm	NONE
D2	EXTERIOR STEEL DOUBLE DOOR 1829mm x 2032mm [6'-0" x 6'-8"] PAIR	1943mm x 2089mm	NONE
D3	INTERIOR STEEL DOOR 914mm x 2032mm [3'-0" x 6'-8"]	1029mm x 2089mm	NONE
D4	INTERIOR STEEL DOUBLE DOOR 1829mm x 2032mm [6'-0" x 6'-8"] PAIR	1943mm x 2089mm	WIRED GLASS VIEWPORTS (TYPE "V6")
OHD	OVERHEAD DOOR 2743mm x 2743mm [9'-0" x 9'-0"]	2743mm x 2743mm [9'-0" x 9'-0"]	NONE

KEY NOTE LEGEND		
TYPE	DESCRIPTION ITEM	NOTES
①	EXTERIOR MOUNTED A/C UNITS. SEE MECH. DWGS.	MOUNTING DETAIL BY CONTRACTOR
②	SERVER RACK 700x1100x2149 HIGH ON ISO BASE	ISO BASE SUPPLIED BY CONTRACTOR, RACK BY CCG
③	EQUIPMENT RACK 700x800x2149 HIGH ON ISO BASE	ISO BASE SUPPLIED BY CONTRACTOR, RACK BY CCG
④	UPS	SEE ELECTRICAL DRAWINGS
⑤	WAVE GUIDE PORT. SEE ELEVATIONS	2x3 - 4" ENTRY PANEL
⑥	TELUS SERVICE CONDUIT ENTRY	SEE ELECTRICAL DRAWINGS
⑦	WORK BENCH	SUPPLIED AND INSTALLED BY CCG (NIC)
⑧	UPS PANEL	SEE ELECTRICAL DRAWINGS
⑨	FIRE SUPPRESSION TANK	SEE MECHANICAL DRAWINGS
⑩	FIRE CONTROL PANEL	SEE ELECTRICAL DRAWINGS
⑪	WATER SERVICE ENTRY	SEE MECHANICAL DRAWINGS
⑫	SINK	SEE MECHANICAL DRAWINGS
⑬	TOILET	SEE MECHANICAL DRAWINGS
⑭	JANITORS SINK	SEE MECHANICAL DRAWINGS
⑮	ATS (INTELLIGEN)	SUPPLIED BY CCG, INSTALLED BY CONTRACTOR
⑯	BCH SERVICE	SEE ELECTRICAL DRAWINGS
⑰	AIR COOLED DIESEL GENERATOR - SIMPSON MAXWELL	SUPPLIED AND INSTALLED BY CCG
⑱	250 USG COMPOSITE FUEL TANK	SUPPLIED AND INSTALLED BY CCG
⑲	GENERATOR EXHAUST FLUE. SEE ELEVATIONS FOR R/O SIZE.	SEE MECHANICAL DRAWINGS
⑳	COOLING FAN EXHAUST FLUE. SEE ELEVATIONS FOR R/O SIZE.	SEE MECHANICAL DRAWINGS
㉑	INTAKE LOUVRE. SEE ELEVATIONS FOR R/O SIZE.	SEE MECHANICAL DRAWINGS
㉒	EXTERIOR CONCRETE SIDEWALK	SEE CIVIL DRAWINGS
㉓	ELECTRICAL PANEL	SEE ELECTRICAL DRAWINGS
㉔	CABLE TRAY ABOVE	SEE ELECTRICAL DRAWINGS
㉕	TRANSFORMER MOUNTED TO WALL	SEE ELECTRICAL DRAWINGS
㉖	HELIPAD LIGHTING RADIO TRIGGER CONTROLLER/RECEIVER	SEE ELECTRICAL DRAWINGS
㉗	WALL MOUNTED HOT WATER TANK	SEE MECHANICAL DRAWINGS
㉘	DUCTING ABOVE	SEE MECHANICAL DRAWINGS
㉙	FUEL LINE WALL OPENING	SEE WALL ELEVATIONS FOR LOCATION & SIZE
㉚	LOUVRE OPENINGS	SEE WALL ELEVATIONS FOR LOCATION & SIZE
㉛	FLOOR DRAIN - SLOPE FLOOR TO DRAIN	SEE MECHANICAL DRAWINGS
㉜	EXTERIOR FUEL TANK	SUPPLIED AND INSTALLED BY CCG. PAD BY CONTRACTOR

FLOOR FINISH SCHEDULE		
TYPE	DESCRIPTION	NOTES
F-1	SMOOTH FINISHED CONCRETE SLAB ON GRADE	SEE BUILDING ENVELOPE & STRUCTURAL
F-2	COIN GRIP RUBBER FLOORING ON SMOOTH FINISHED CONCRETE SLAB ON GRADE	SEE BUILDING ENVELOPE & STRUCTURAL

**NOTES**

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND VERIFY ALL DIMENSIONS AND DATA SET OUT HEREIN FOR CONFORMITY WITH THE PROJECT SITE AND TO NOTIFY DEPARTMENTAL REPRESENTATIVE IN WRITING IMMEDIATELY UPON THE CONTRACTOR BECOMING AWARE OF ANY CONDITIONS, DISCREPANCIES OR DEVIATIONS BETWEEN THE PROJECT SITE, PROJECT DRAWING AND SPECIFICATIONS PROVIDED. UPON NOTIFICATION, IT IS THE DEPARTMENTAL REPRESENTATIVE'S RESPONSIBILITY TO DETERMINE SUCH ADJUSTMENTS TO THE DIMENSIONS AND SPECIFICATIONS AS MAY BE REQUIRED.
- DO NOT SCALE DRAWINGS FOR DIMENSIONS. LAYOUT WORK FROM DIMENSIONS GIVEN. IF DIMENSIONS ARE FOUND TO BE INCORRECT, INCOMPLETE OR AMBIGUOUS CONSULT DEPARTMENTAL REPRESENTATIVE FOR WRITTEN CLARIFICATION.
- ALL PENETRATIONS THROUGH FIRE SEPARATIONS, WHETHER STRUCTURAL, MECHANICAL, ELECTRICAL (OR OTHER) SHALL BE CLOSED WITH FIRE STOP SYSTEMS TO MATCH FIRE RESISTANCE RATING OF PENETRATED WALLS, FLOORS AND CEILINGS.
- FIRE SEPARATIONS AND FIRE RATED WALLS TO EXTEND FULL HEIGHT TO UNDERSIDE OF STRUCTURE. FIRE SEPARATIONS ARE TO BE CONTINUOUS AROUND ALL EDGES OF INTERIOR PARTITION AND APPROPRIATELY FIRE STOPPED.
- ALL COLOUR SAMPLES AND MATERIALS TO BE REVIEWED WITH DEPARTMENTAL REPRESENTATIVE.

**DOOR HARDWARE NOTES**

- SUPPLY WITH VON DUPRIN PANIC EXIT HARDWARE (INCLUDE VERTICAL ROD FOR DOUBLE DOORS) AND BALL BEARING HINGES WITH REMOVABLE PINS FOR PRIMARY DOUBLE EXIT DOOR ONLY.
- PROVIDE THUMBPRESS AND KEY CYLINDER, DEADBOLT THAT HAS ANTI-TORQUE COLLAR, CORING PROTECTION, AND 5 PIN GOVERNMENT KEYWAY.
- COORDINATE KEYING REQUIREMENTS THROUGH CCG.
- USE LCN DOOR CLOSERS FOR ALL HINGED DOORS.

**PAINT NOTES**

- ALL EXPOSED PLYWOOD SURFACES TO BE PRIMED AND PAINTED WITH COVERDALE 15200 OIL BASED PRIMER AND COVERDALE ECO-LOGIC SEMI-GLOSS. OWNER TO SPECIFY COLOUR.

WALL SCHEDULE		
TYPE	DESCRIPTION	PLAN SECTION SCHEMATIC
EW-1	EXTERIOR INSULATED CONCRETE WALL: SEE BUILDING ENVELOPE DRAWINGS FOR WALL ASSEMBLY INTERIOR FINISH: GALV. STEEL HAT CHANNEL @ 406 O.C. 12.7mm WOOD PLY SHEATHING (G1S) PAINTED INSTALL CONTINUOUS TRIM AT TOP OF PLYWOOD SHEATHING	
W2	INTERIOR INSULATED CONCRETE WALL: PAINTED 12.7mm WOOD PLY SHEATHING (G1S) GALV. STEEL HAT CHANNEL @ 406 O.C. 203mm INSULATED CONCRETE FORM GALV. STEEL HAT CHANNEL @ 406 O.C. 12.7mm WOOD PLY SHEATHING (G1S) PAINTED INSTALL CONTINUOUS TRIM AT TOP OF PLYWOOD SHEATHING	
W3	STEEL STUD INTERIOR WALL 45 MINUTE FIRE RATING: PAINTED 12.7mm WOOD PLY SHEATHING (G1S) 15.9mm GYPSUM BOARD (TYPE X) 92mm STEEL STUDS @ 406mm O.C. 15.9mm GYPSUM BOARD (TYPE X) 12.7mm WOOD PLY SHEATHING (G1S) PAINTED	
W4	STEEL STUD INTERIOR WALL 2 HOUR FIRE RATING: PAINTED 12.7mm WOOD PLY SHEATHING (G1S) DOUBLE PLY 15.9mm GYPSUM BOARD (TYPE X) 92mm STEEL STUDS @ 406mm O.C. DOUBLE PLY 15.9mm GYPSUM BOARD (TYPE X) 12.7mm WOOD PLY SHEATHING (G1S) PAINTED	

**LEGEND**

- R/O ROUGH OPENING = EDGE OF CONCRETE
- Ⓢ KEY NOTE - SEE SCHEDULE
- W1 WALL TYPE LABEL - SEE SCHEDULE
- F-1 FLOOR FINISH LABEL - SEE SCHEDULE
- D1 DOOR TYPE LABEL - SEE SCHEDULE
- G1S GOOD ONE SIDE (FOR PLYWOOD SHEATHING)

Vendor Information / Sous-traitant

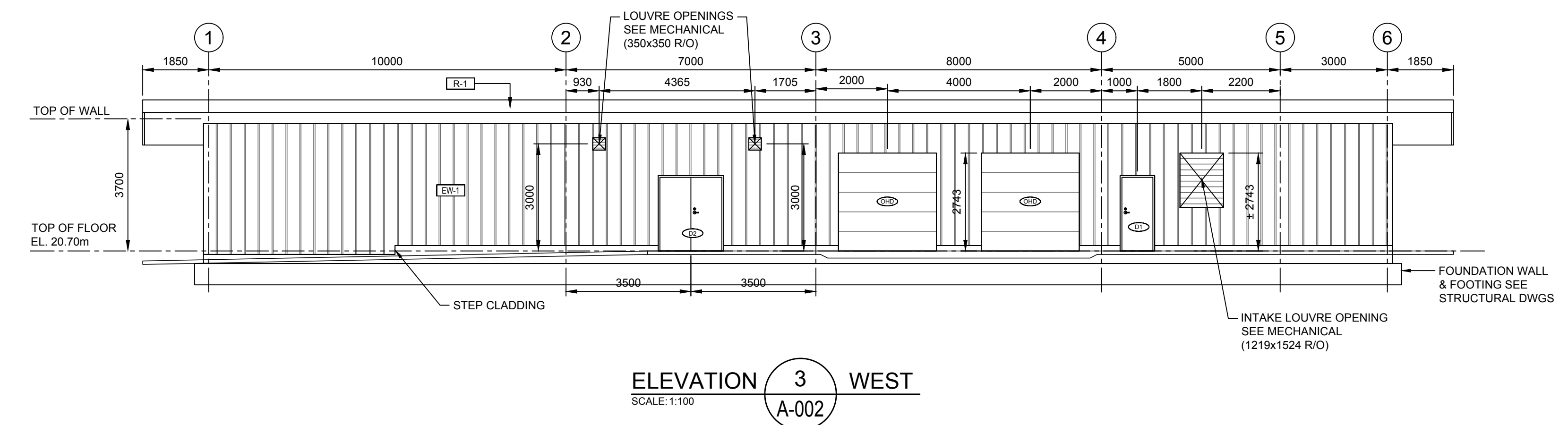
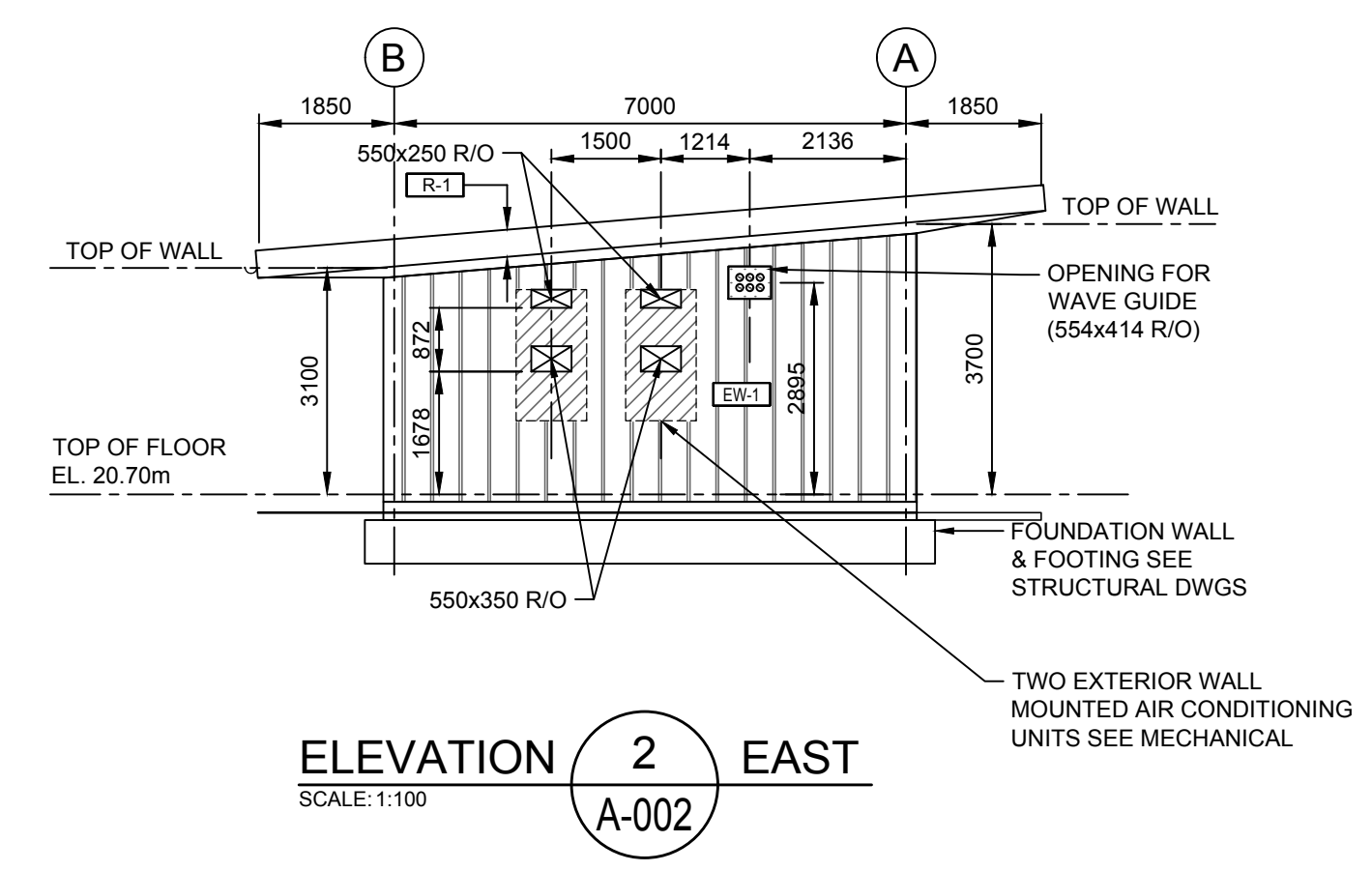
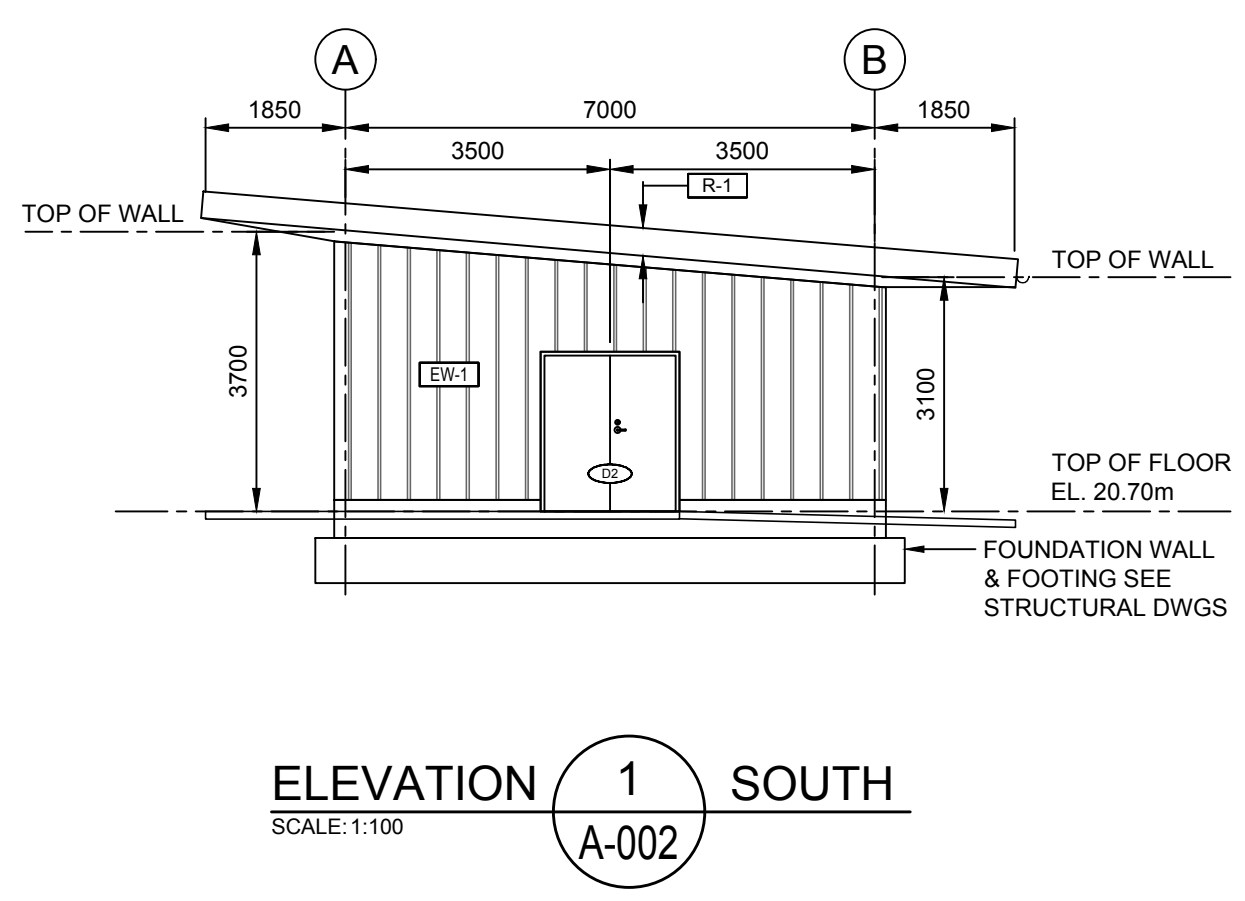
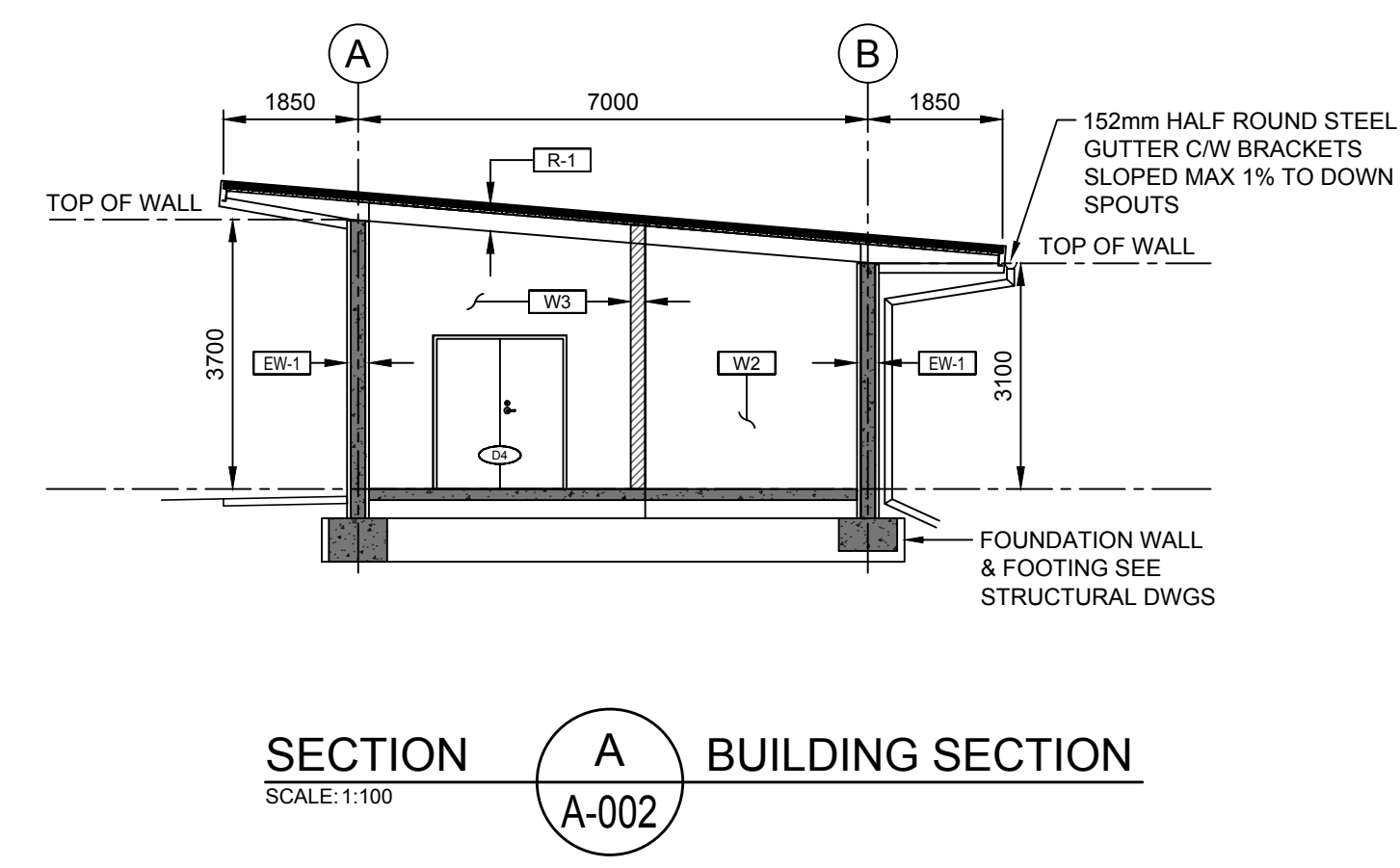
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0	ISSUED FOR TENDER	SMC	2018-10-02
rev	description	by	date

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**EQUIPMENT BUILDING**

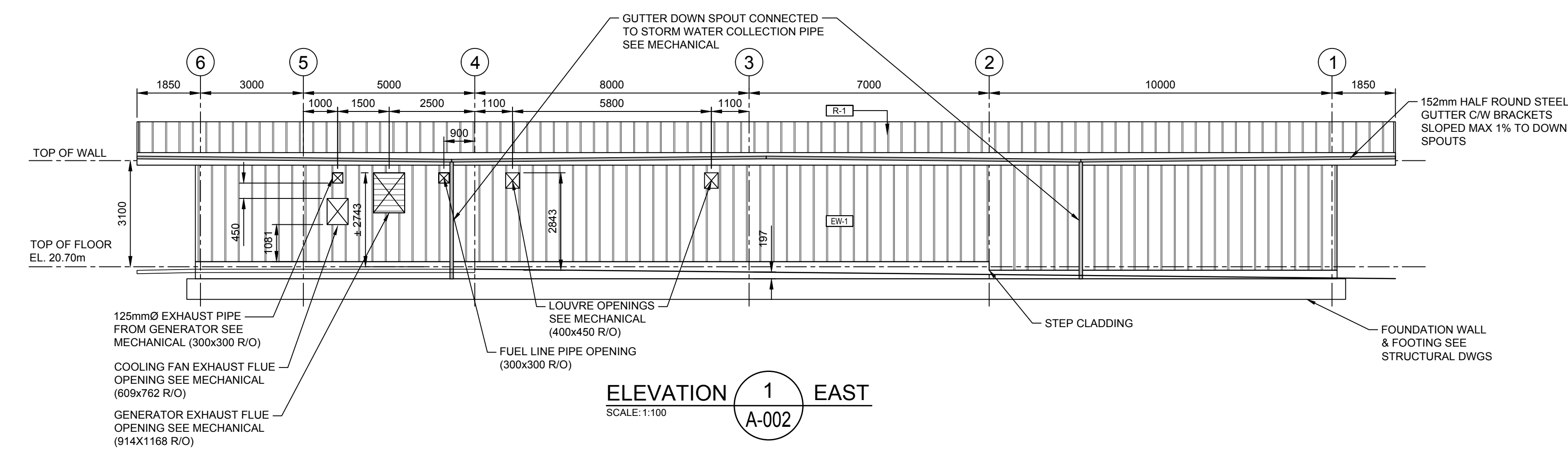
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**BUILDING PLANS**

drawn - dessiné	date
TDK	2018-08-21
designed - conception	date
SMC	2018-08-21
checked - vérifié	date
SMC	2018-10-02
approved - approuvé	date
CCG ref. no. - no. réf. GCC	scale - échelle
WM104-1025	AS SHOWN
drawing no. - no. dessin	sheet/feuille
A-001	1 OF 3

Vendor Information / Sous-traitant



DOOR SCHEDULE			
TYPE	DESCRIPTION	ROUGH OPENING	WINDOW
D1	EXTERIOR STEEL DOOR 914mm x 2032mm [3'-0" x 6'-8"]	1029mm x 2089mm	NONE
D2	EXTERIOR STEEL DOUBLE DOOR 1829mm x 2032mm [6'-0" x 6'-8"] PAIR	1943mm x 2089mm	NONE
D3	INTERIOR STEEL DOOR 914mm x 2032mm [3'-0" x 6'-8"]	1029mm x 2089mm	NONE
D4	INTERIOR STEEL DOUBLE DOOR 1829mm x 2032mm [6'-0" x 6'-8"] PAIR	1943mm x 2089mm	WIRED GLASS VIEWPORTS (TYPE "V6")
OHD	OVERHEAD DOOR 2743mm x 2743mm [9'-0" x 9'-0"]	2743mm x 2743mm [9'-0" x 9'-0"]	NONE



1	REISSUED FOR TENDER	SMC	2019-02-27
0	ISSUED FOR TENDER	SMC	2018-10-02
rev	description	by	date

Asset - Actif  
**WM104 AMPHITRITE POINT**  
**EQUIPMENT BUILDING**

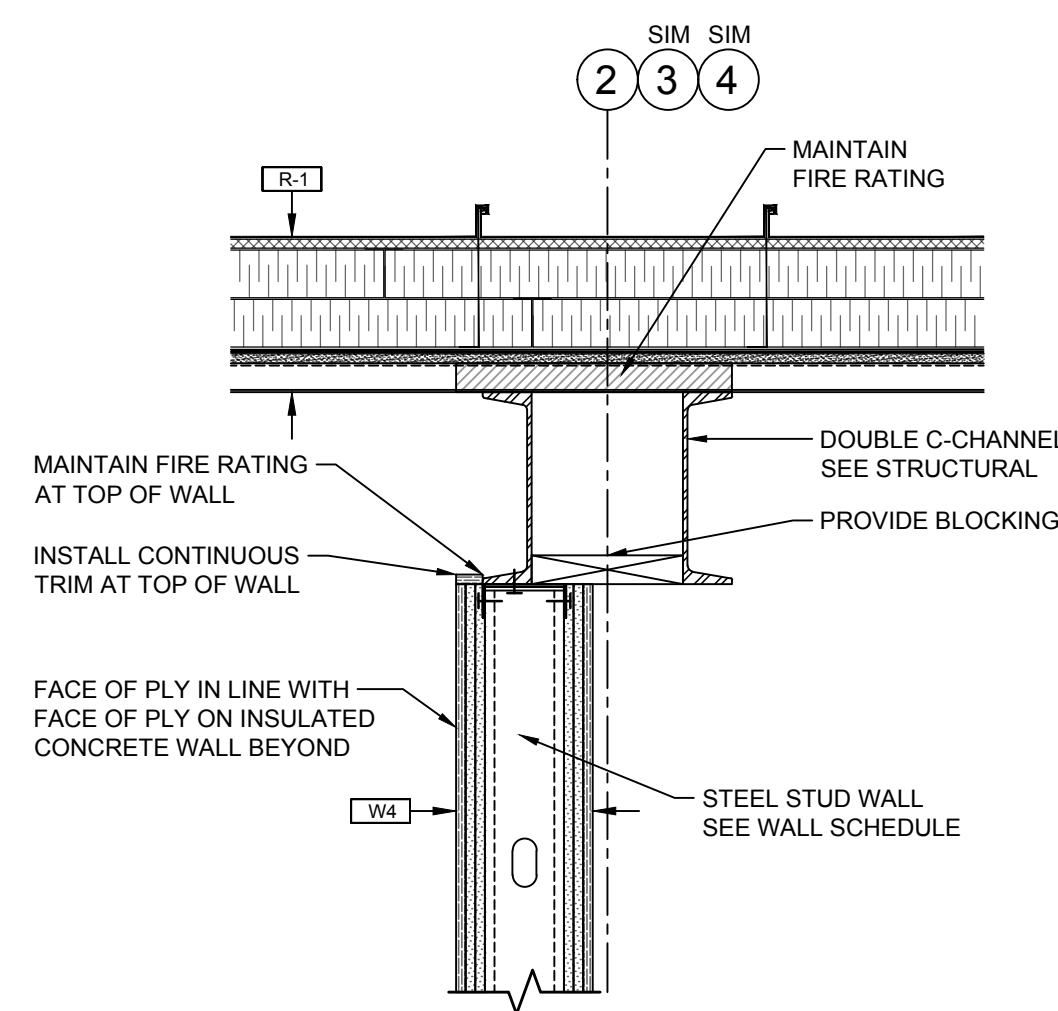
Drawing - Dessin  
**BUILDING ELEVATIONS AND SECTION**

drawn - dessiné	date
TDK	2018-08-21
designed - conception	date
SMC	2018-08-21
checked - vérifié	date
SMC	2018-10-02
approved - approuvé	date
-	-

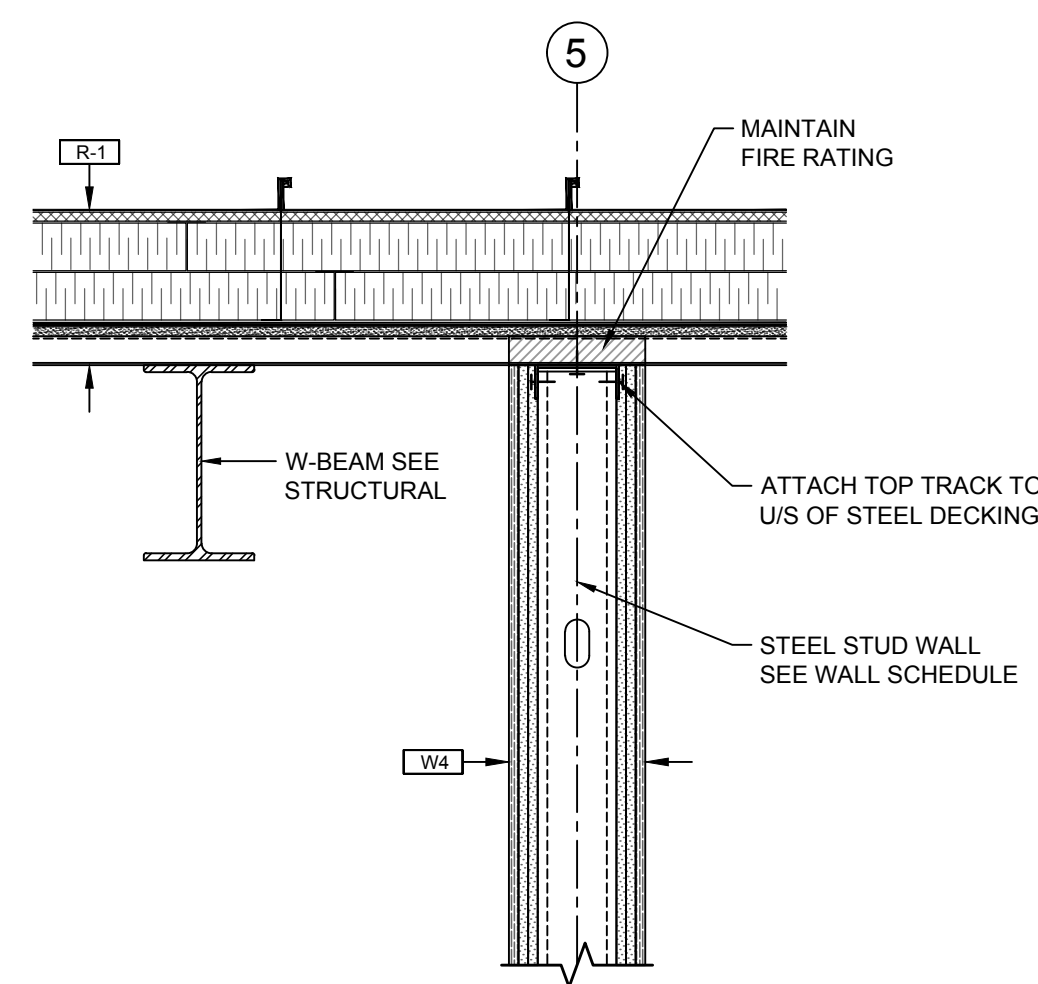
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WM104-1025	AS SHOWN
drawing no. - no. dessin	sheet/feuille
A-002	2 OF 3

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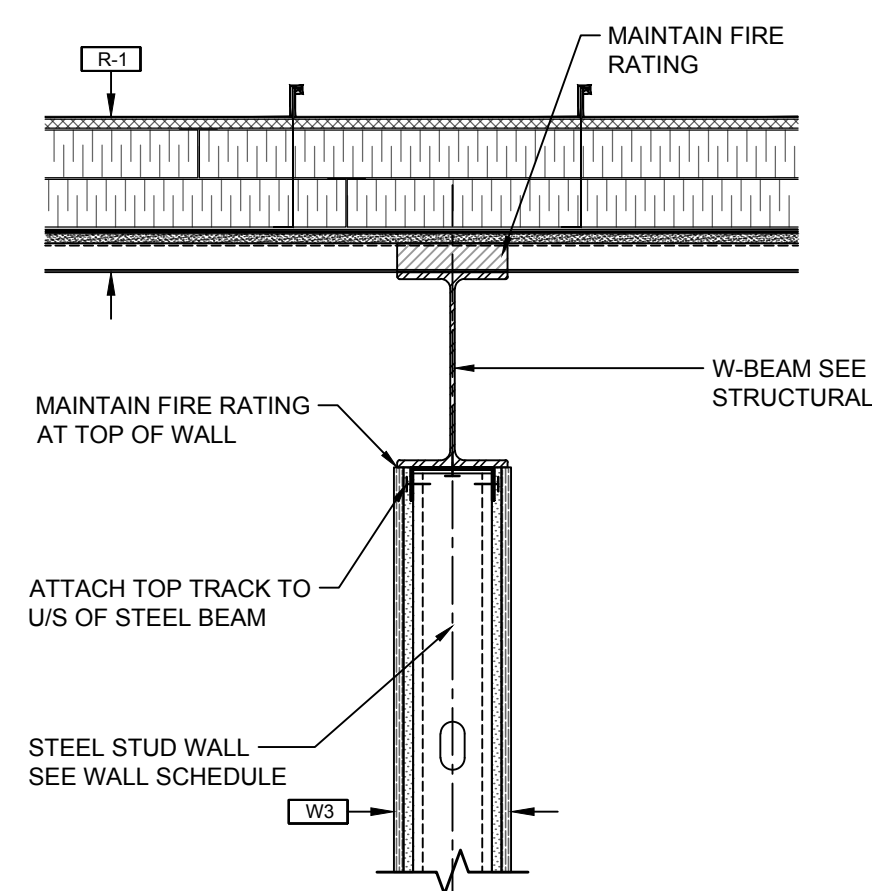
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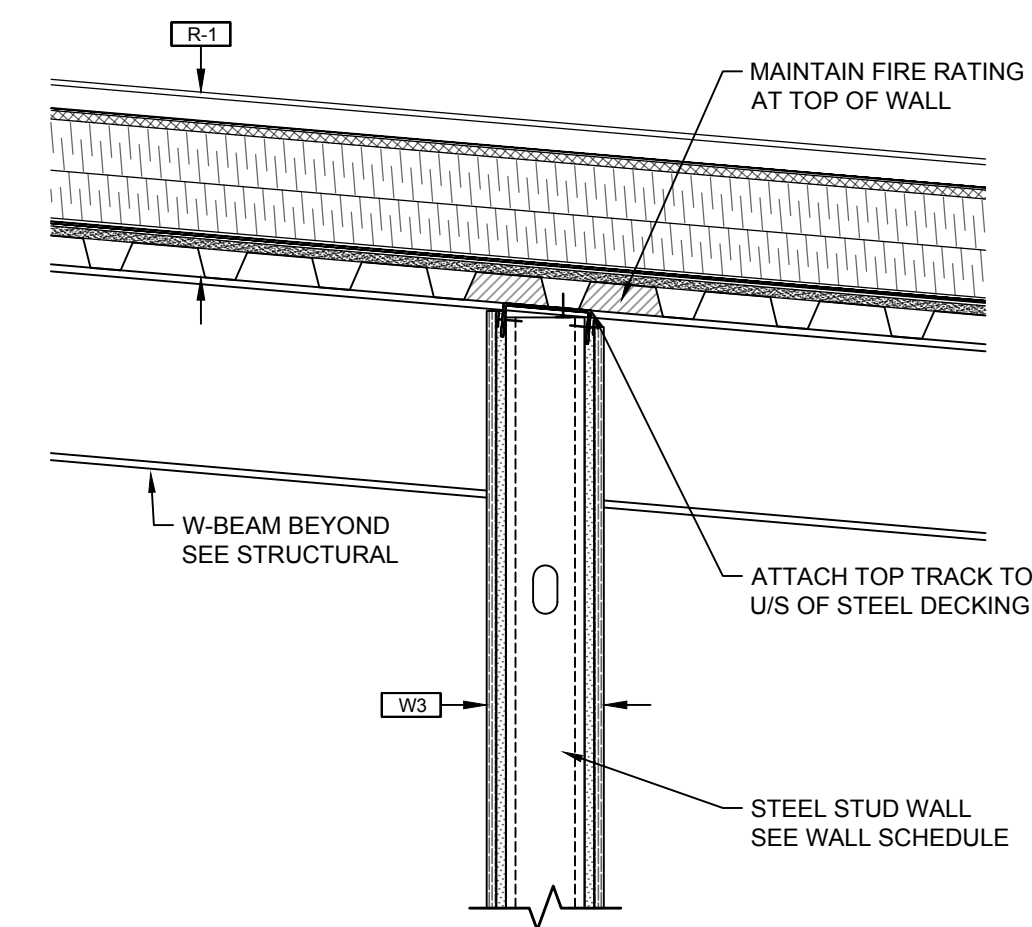
SECTION 1 PARTITION WALL  
SCALE: 1:10  
A-003



SECTION 2 PARTITION WALL  
SCALE: 1:10  
A-003



SECTION 3 PARTITION WALL  
SCALE: 1:10  
A-003



SECTION 4 PARTITION WALL  
SCALE: 1:10  
A-003

1	REISSUED FOR TENDER	SMC	2019-02-27
0	ISSUED FOR TENDER	SMC	2018-10-02
rev	description	by	date

Asset - Actif

WM104 AMPHITRITE POINT  
EQUIPMENT BUILDING

Drawing - Dessin

SECTIONS & DETAILS

drawn - dessiné	date
TDK	2018-08-21
designed - conception	date
SMC	2018-08-21
checked - vérifié	date
SMC	2018-10-02
approved - approuvé	date
-	-

CCG ref. no. - no. réf. GCC	scale - échelle
WM104-1025	AS SHOWN
drawing no. - no. dessin	sheet/feuille
A-003	3 OF 3
	rev-rév
	1



# CANADIAN COAST GUARD

## AMPHITRITE POINT EQUIPMENT BUILDING

UCLUELET, BC

**CLIENT:**

DEPARTMENT OF  
FISHERIES & OCEANS

**CLIENT ADDRESS:**

25 HURON STREET,  
VICTORIA, BC

**BUILDING ENVELOPE SERVICES**

**DRAWING LIST**

- BE-000 COVER SHEET & ASSEMBLIES
- BE-001 BUILDING PLAN, SECTION & CODE CHECK
- BE-002 ROOF & WALL DETAILS
- BE-003 ROOF & PENETRATION DETAILS
- BE-004 DOOR & PENETRATION DETAILS

TYPE	LOCATION	DESCRIPTION (ALL MATERIALS ARE UNLESS NOTED OTHERWISE)	SCHEMATIC DETAILS (N.T.S.) (EXIST. CONSTRUCTION TO BE RETAINED SHOWN TONED)
EW-1	EXTERIOR WALL	<p>PREFINISHED METAL CLADDING 38mm ADJUSTABLE INTERMITTENT S.S. CLIPS (*) SELF ADHESIVE VAPOUR PERMEABLE (VP) SHEATHING MEMBRANE 5mm VERTICAL S.S. FLAT STOCK, 18 GA. @ 406mm O/C (*) INSULATED CONCRETE WALL (ICF) WITH 67mm EPS INSULATION ON BOTH SIDES (APPR. R23) INTERIOR FINISHES BY OTHERS</p> <p><b>NOTE:</b> (*) ALL INTERMITTENT CLIPS LOCATED WITHIN 1 METER OF EXTERIOR CORNERS ARE TO BE FASTENED TO S.S. FLAT STOCK @ 813mm O/C MAX. WITH 2 - #14 SCREWS AS SPECIFIED ALL INTERMITTENT CLIPS LOCATED MORE THAN 1 METER FROM EXTERIOR CORNERS ARE TO BE FASTENED TO S.S. FLAT STOCK @ 915mm O/C MAX. WITH 2 - #14 SCREWS AS SPECIFIED (**) ALL VERTICAL S.S. FLAT STOCK BARS LOCATED WITHIN 1 METER OF EXTERIOR CORNERS ARE TO BE FASTENED INTO ICF WEB @ 150mm O/C MAX. WITH #10 SCREWS AS SPECIFIED ALL VERTICAL S.S. FLAT STOCK BARS LOCATED MORE THAN 1 METER FROM EXTERIOR CORNERS ARE TO BE FASTENED INTO ICF WEB @ 200mm O/C MAX. WITH #10 SCREWS AS SPECIFIED</p>	<p>EXTERIOR</p> <p>INTERIOR</p>
R-1	ROOF AT INTERIOR	<p>PREFINISHED METAL ROOF c/w MIN. 140mm ADJUSTABLE INTERMITTENT S.S. CLIPS (*) 10mm 3D-POLYAMIDE MAT FOR DRAINAGE 2 LAYERS - 63.5m (127mm) XPS INSULATION (R25), TAPED AT ALL JOINTS AND FASTENING CLIPS 2-PLY SBS - SELF ADHESIVE ROOFING MEMBRANE 13mm EXTERIOR GRADE GYPSUM SHEATHING STEEL DECK (REFER TO STRUCTURAL) STEEL BEAMS (NOT SHOWN, REFER TO STRUCTURAL)</p> <p><b>NOTE:</b> (*) S.S. FASTENING CLIPS LOCATED WITHIN 1 METER OF A ROOF EDGE ARE TO BE SPACED @ 406mm O/C ACROSS THE ROOF AND 305mm O/C ALONG THE SLOPE WITH 2 - #14 S.S. SCREWS AS SPECIFIED, MINIMUM S.S. FASTENING CLIPS LOCATED MORE THAN 1 METER FROM THE ROOF EDGE ARE TO BE SPACED @ 406mm O/C ACROSS THE ROOF AND 568mm O/C ALONG THE SLOPE WITH 2 - #14 S.S. SCREWS AS SPECIFIED, MINIMUM</p>	<p>EXTERIOR</p> <p>INTERIOR</p>
S-1	ROOF SOFFIT AT BEAM LOCATIONS	<p>PREFINISHED METAL ROOF ASSEMBLY - REFER TO R-1 ABOVE STEEL DECK (REFER TO STRUCTURAL) STEEL BEAMS (REFER TO STRUCTURAL) SPRAY FOAM INSULATION AT BEAMS, REFER TO BUILDING ENVELOPE DETAILS 89mm S.S. Z-BARS (350-43X120) @ 406mm O/C FASTENED TO UNDERSIDE OF STEEL BEAMS WITH 2 - #14 S.S. SCREWS AS SPECIFIED, MINIMUM 19mm S.S. Z-BARS @ 305mm O/C FASTENED WITH #10 S.S. SCREWS PREFINISHED METAL SOFFIT PANELS FASTENED WITH #10 S.S. SCREWS</p> <p><b>NOTE:</b> SEE DETAIL 1 / BE-0.03 FOR SOFFIT FRAMING CONDITION NEAR OUTSIDE CORNERS</p>	<p>ROOF</p> <p>SOFFIT</p>
F-1	FLOOR	<p>CONCRETE - VARIES (REFER TO STRUCTURAL) 10 MIL POLYETHYLENE 51mm XPS INSULATION GRAVEL (REFER TO STRUCTURAL)</p>	<p>INTERIOR</p> <p>BELOW SLAB</p>

4	REISSUED FOR TENDER	BY	2019-02-27
3	ISSUED FOR TENDER	BY	2018-10-02
2	ISSUED FOR 100% SUBMISSION	BY	2018-09-19
1	ISSUED FOR 80% REVIEW	BY	2018-08-31

Asset - Actif

WM104 AMPHITRITE POINT  
EQUIPMENT BUILDING

Drawing - Dessin

COVER SHEET  
& ASSEMBLIES

drawn - dessiné	date
BM	2018-08-31
designed - conception	date
GF	2018-08-22
checked - vérifié	date
CL	2018-08-31
approved - approuvé	date
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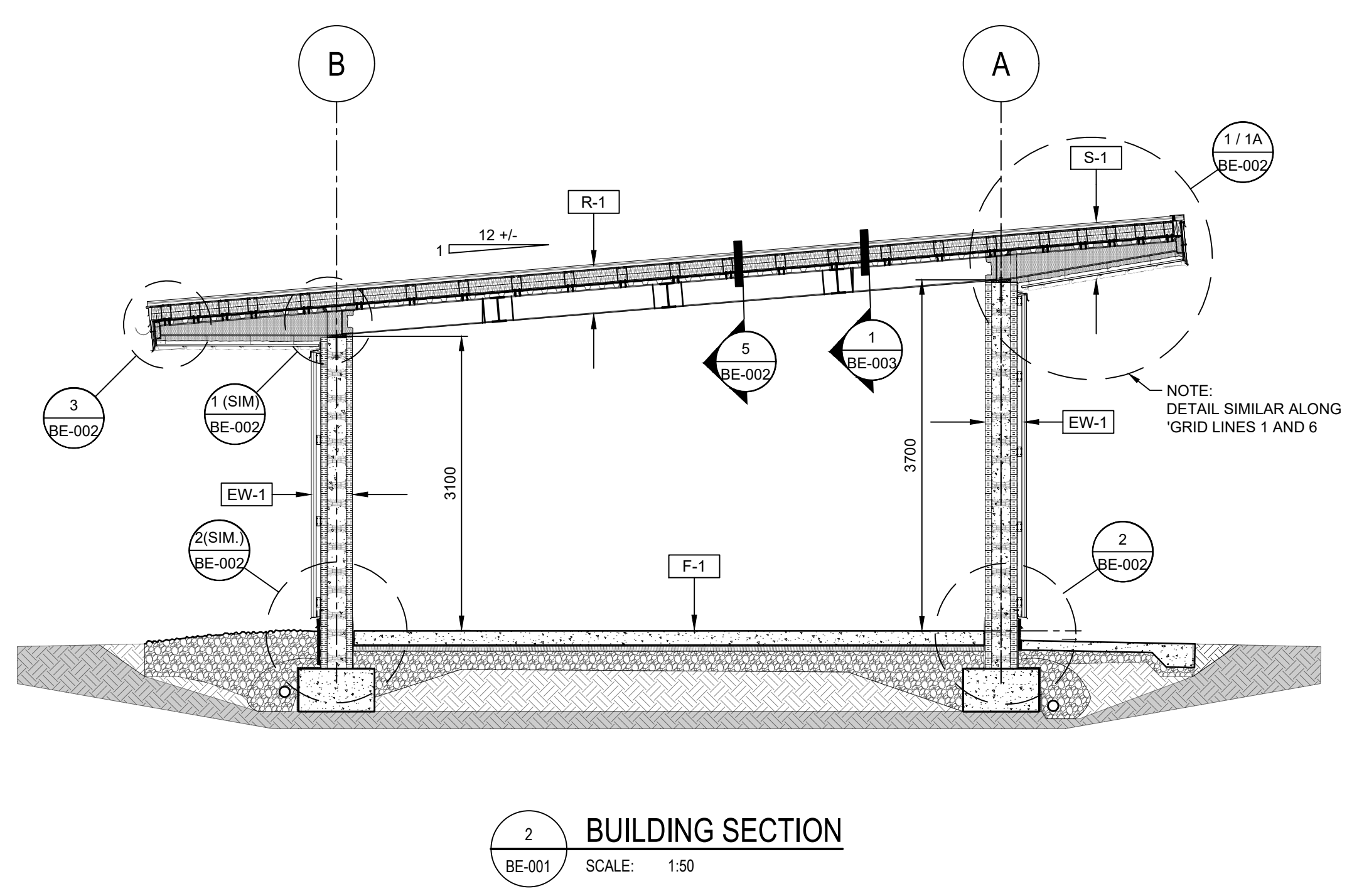
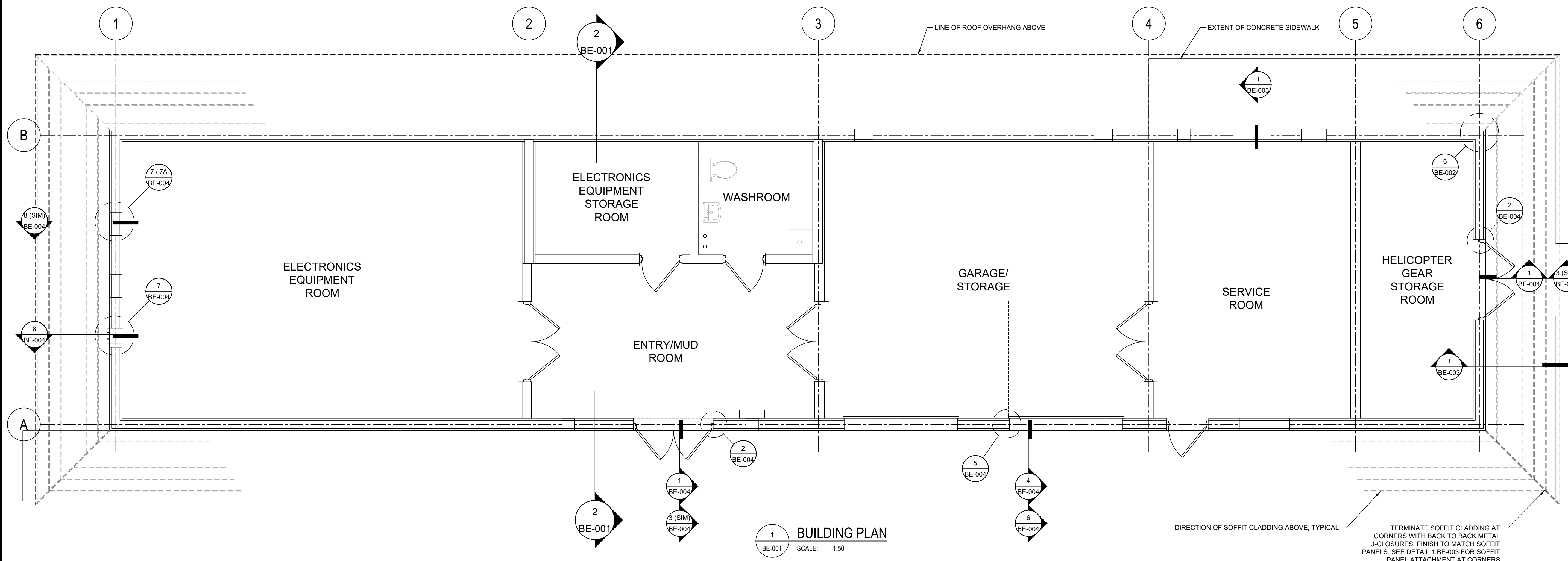
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drawing no. - no. dessin

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3	ISSUED FOR TENDER	BY	2018-10-02
2	ISSUED FOR 100% SUBMISSION	BY	2018-09-19
1	ISSUED FOR 80% REVIEW	BY	2018-08-31
rev	description	by	date

Asset - Actif

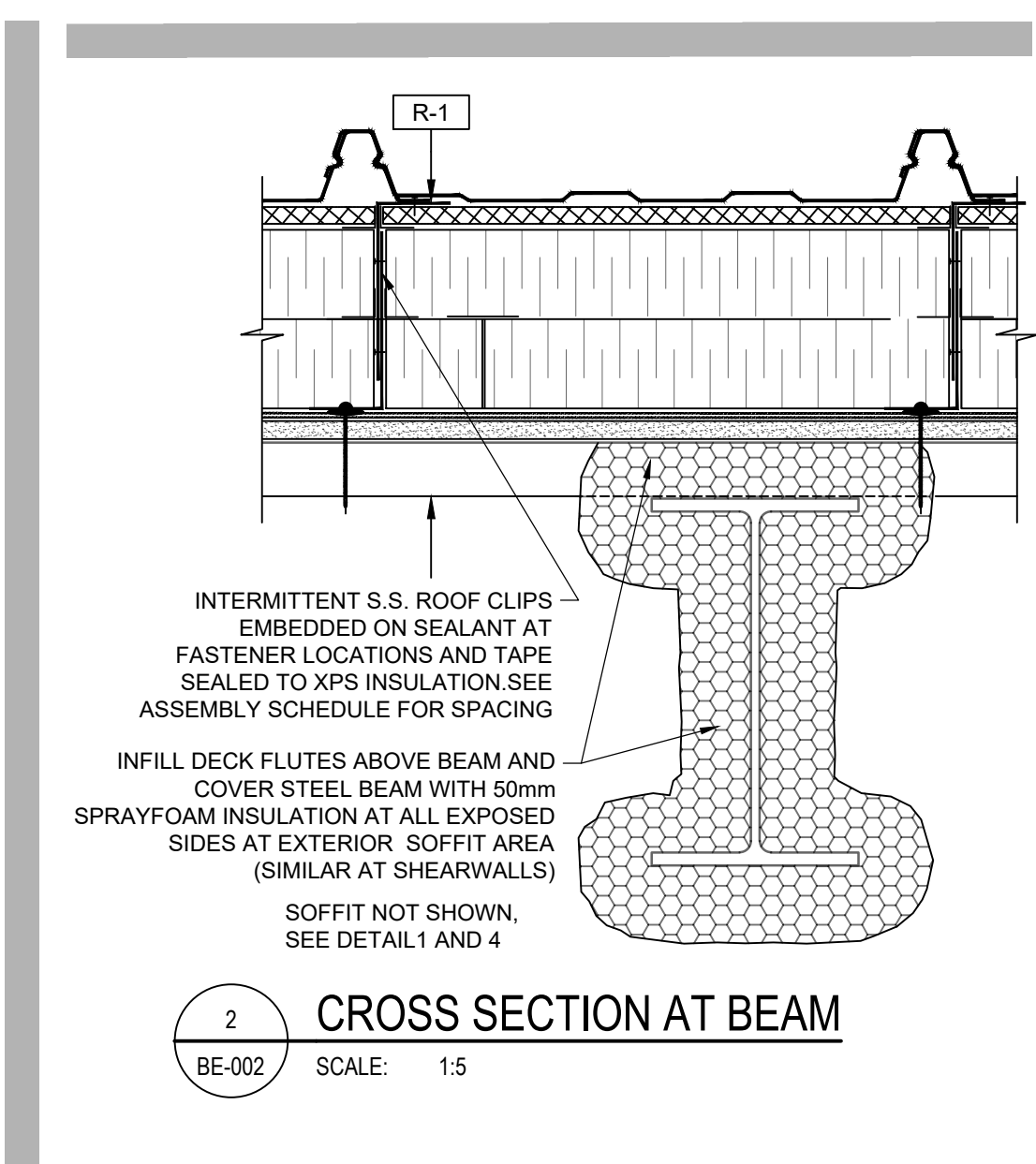
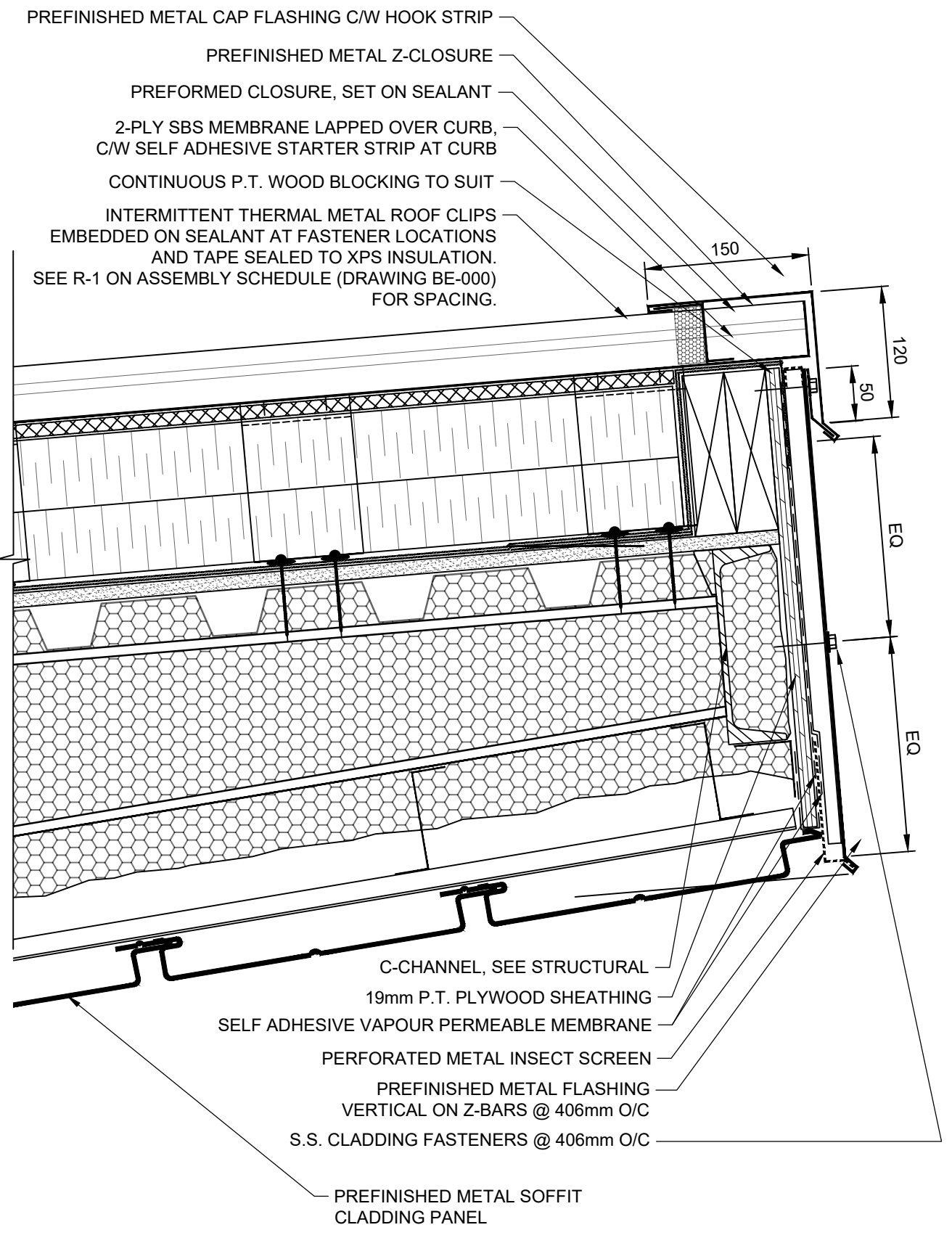
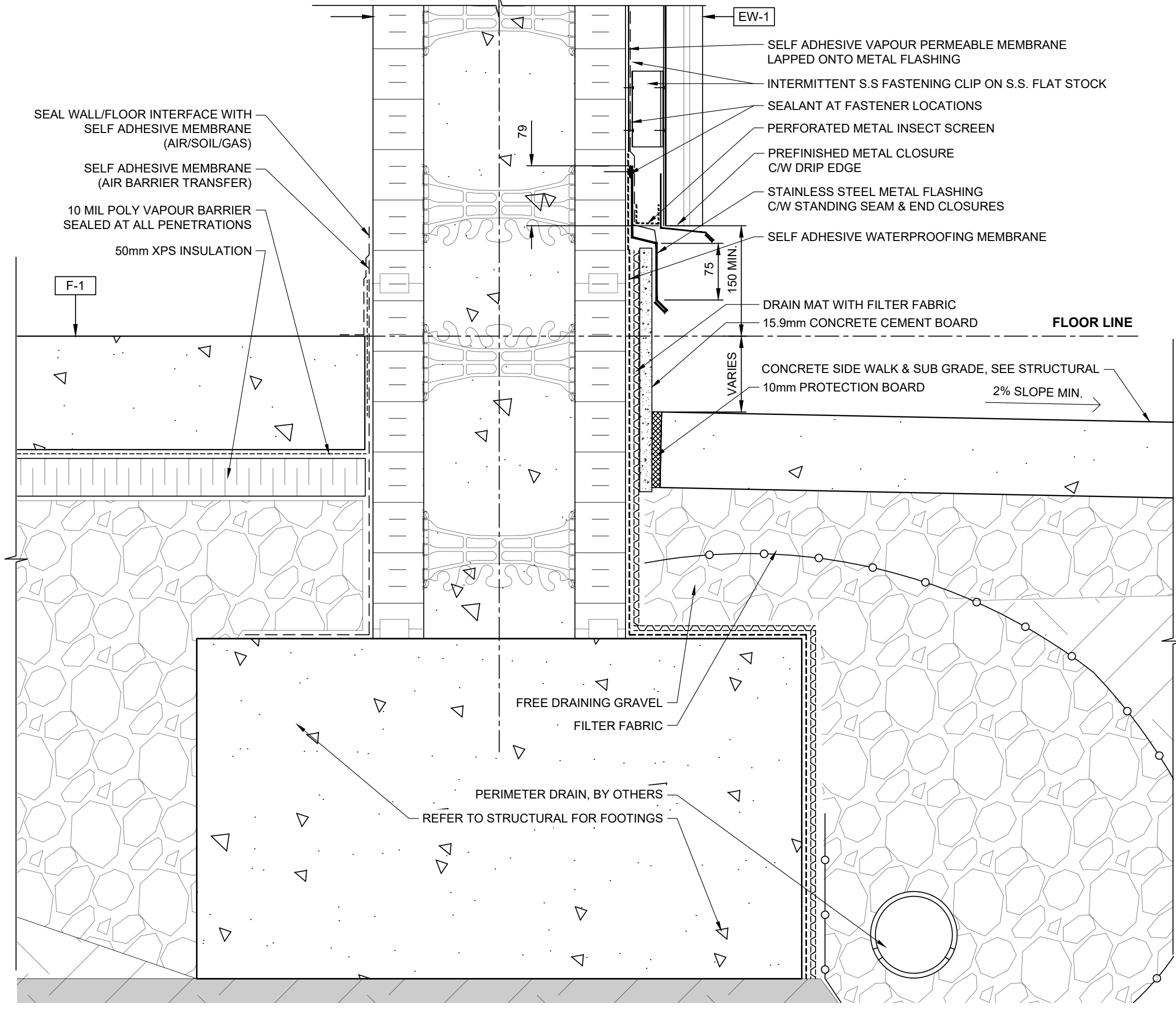
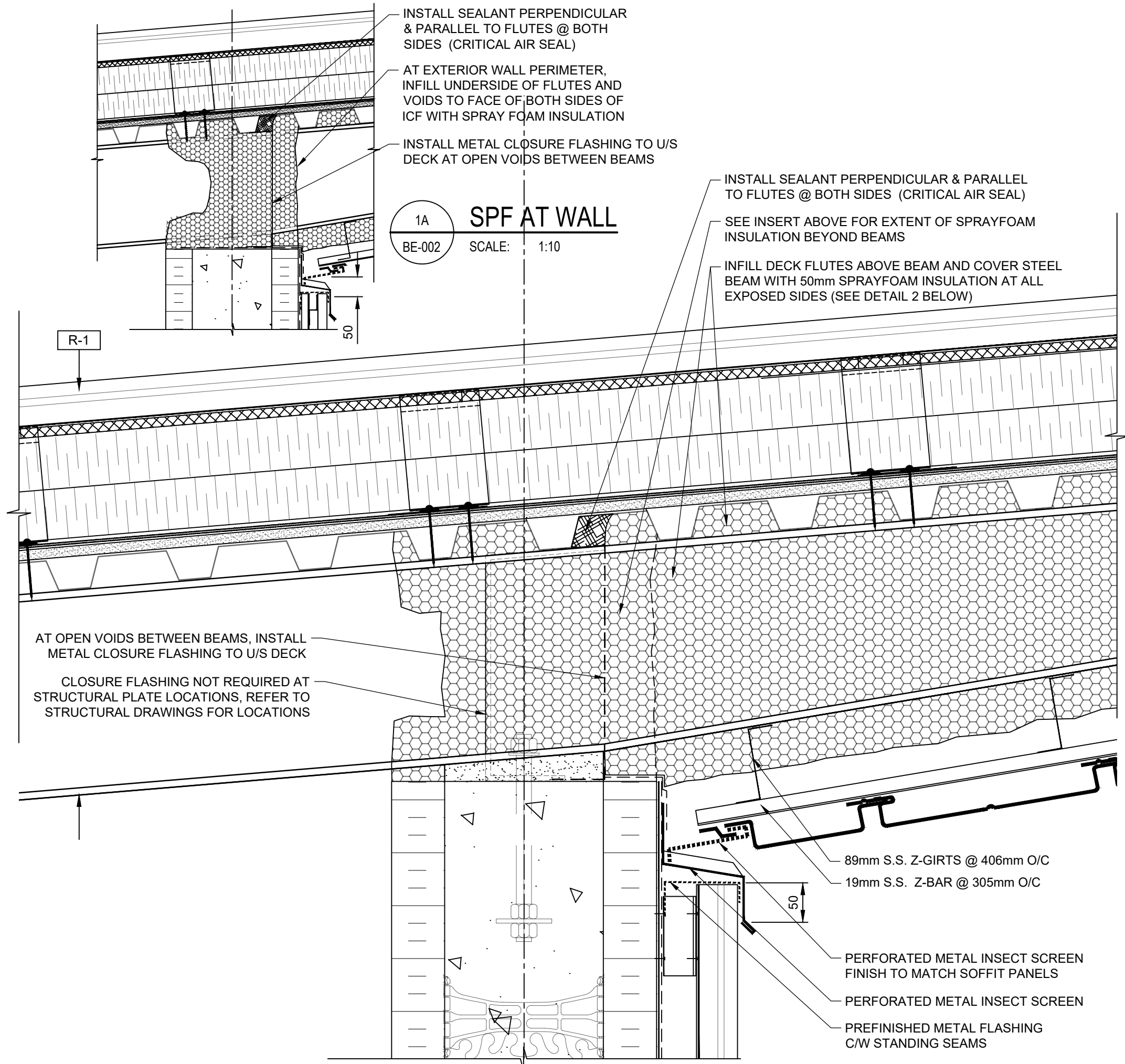
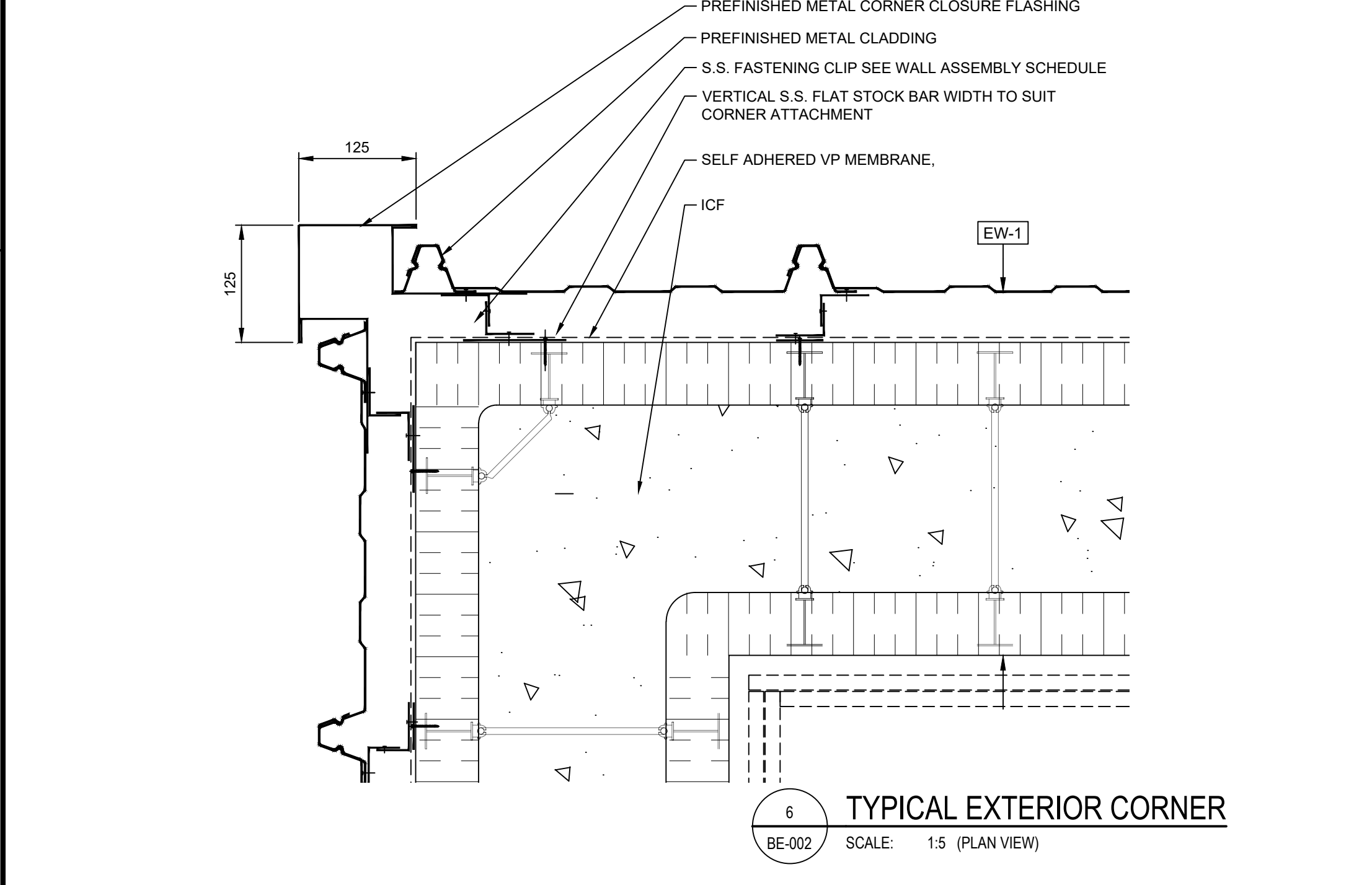
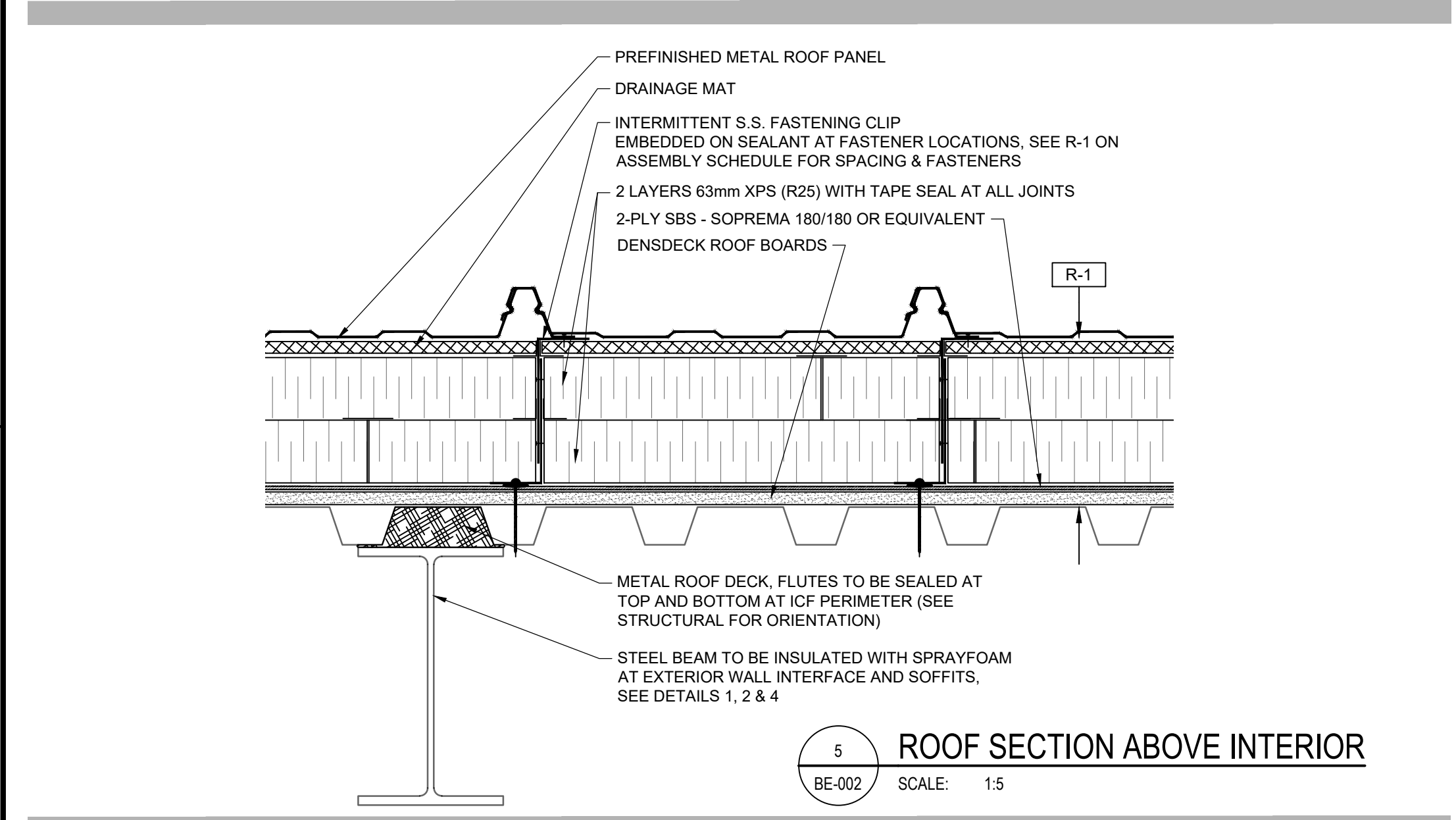
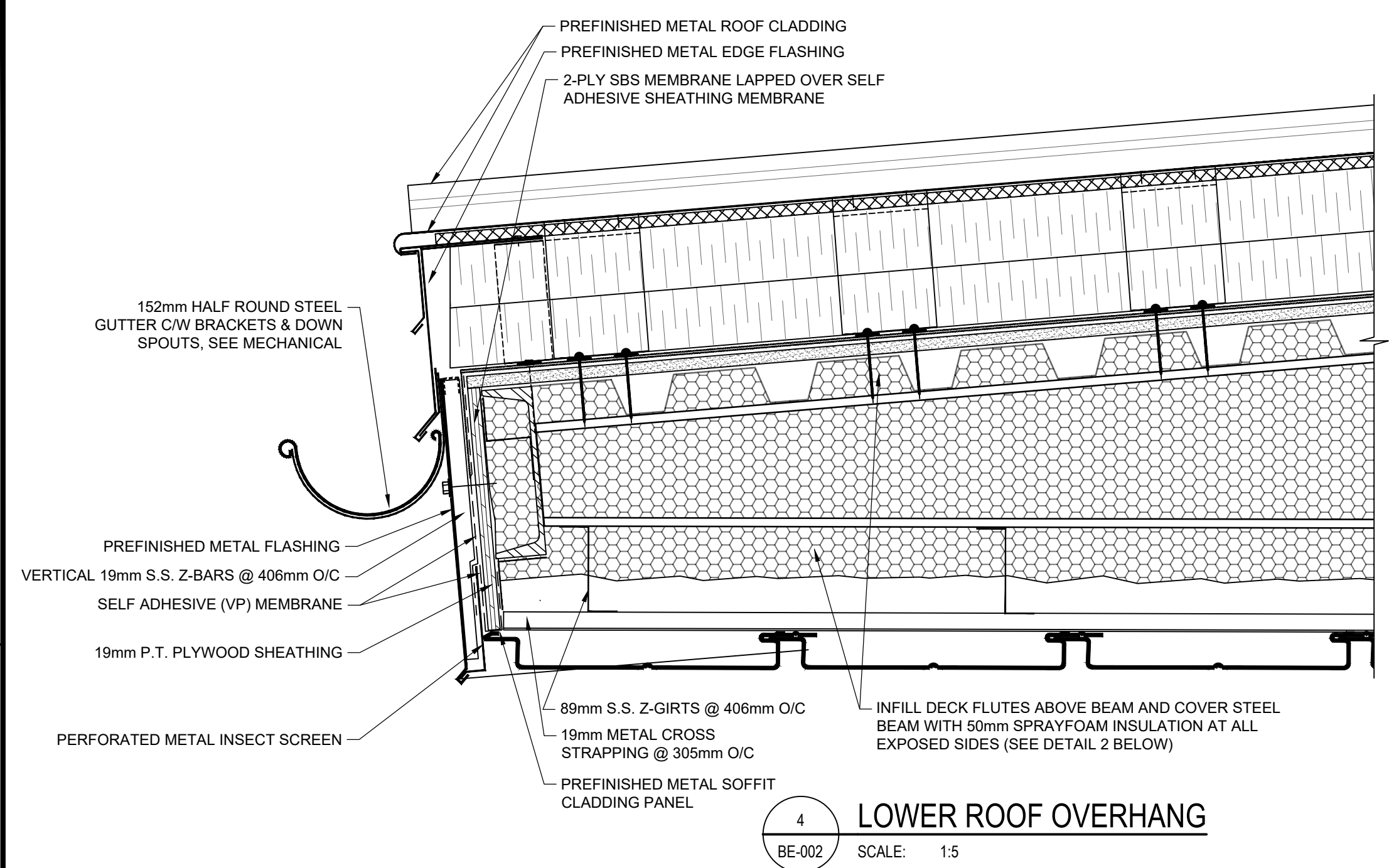
**WM104 AMPHITRITE POINT  
EQUIPMENT BUILDING**

Drawing - Dessin

**BUILDING PLAN, SECTION  
& CODE CHECK**

drawn - dessiné	date
BM	2018-08-31
designed - conception	date
GF	2018-08-22
checked - vérifié	date
CL	2018-08-31
approved - approuvé	date
-	-
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-	AS SHOWN
drawing no. - no. dessin	sheet/feuille
BE-001	02/05 4

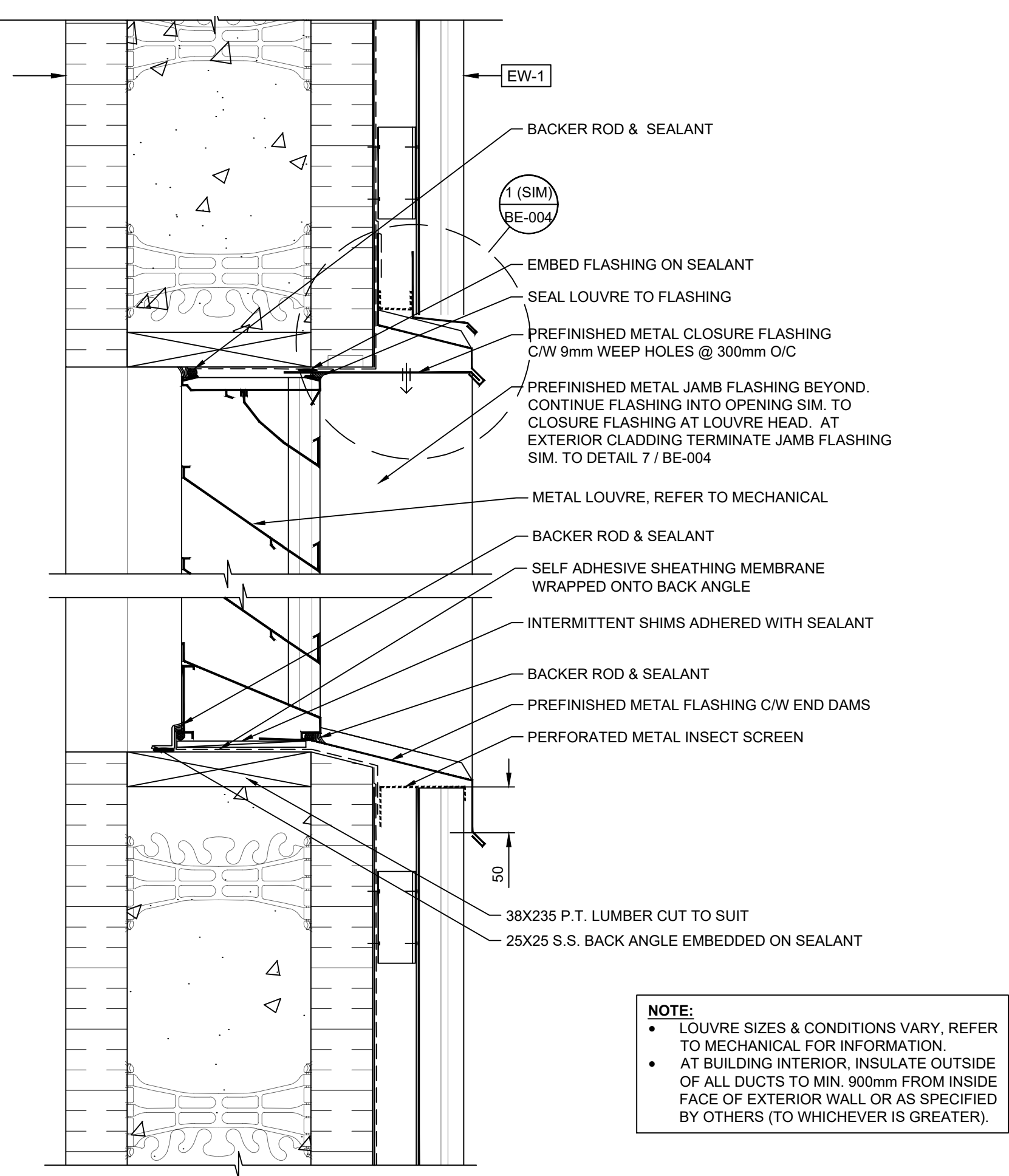
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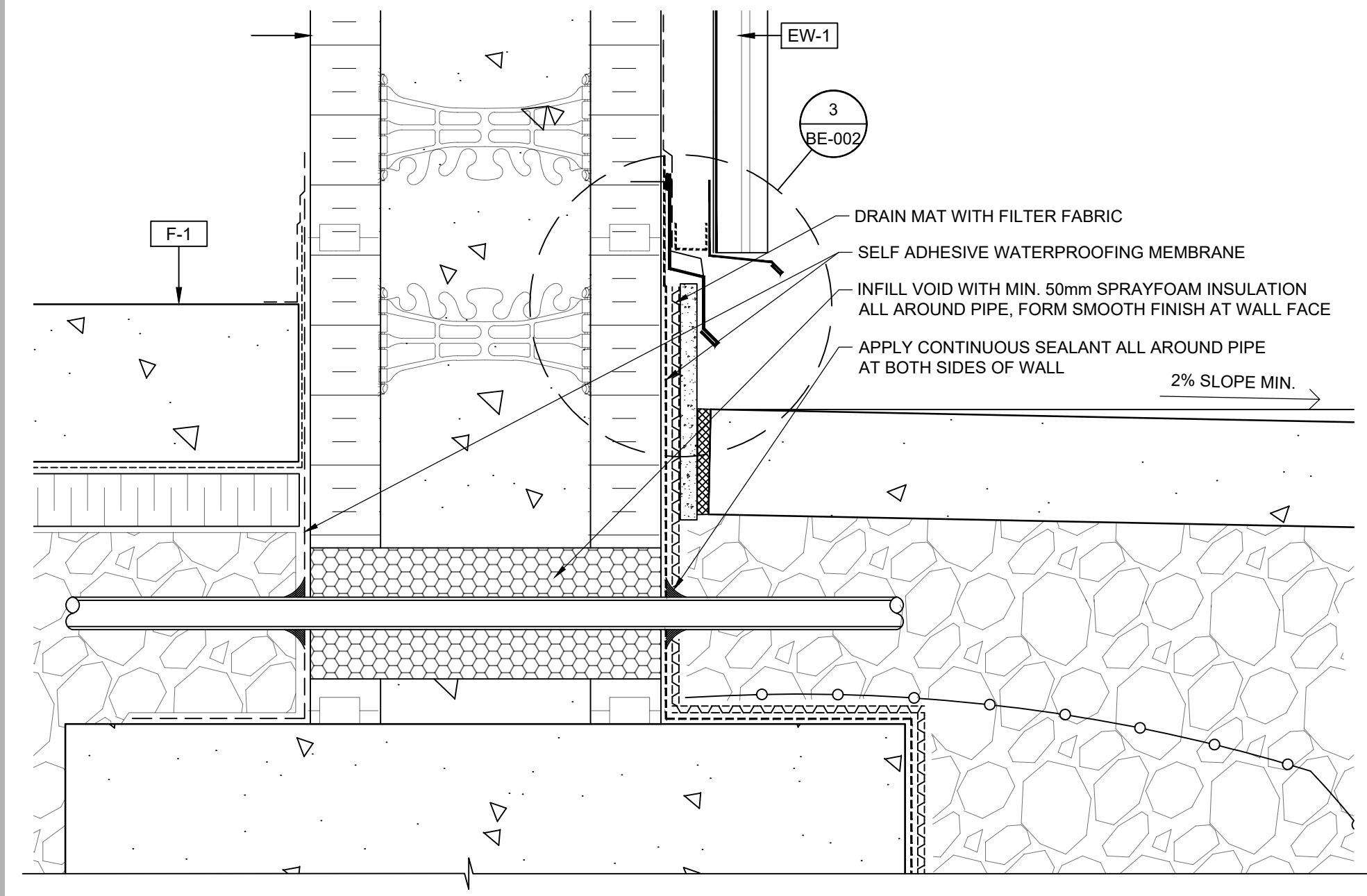
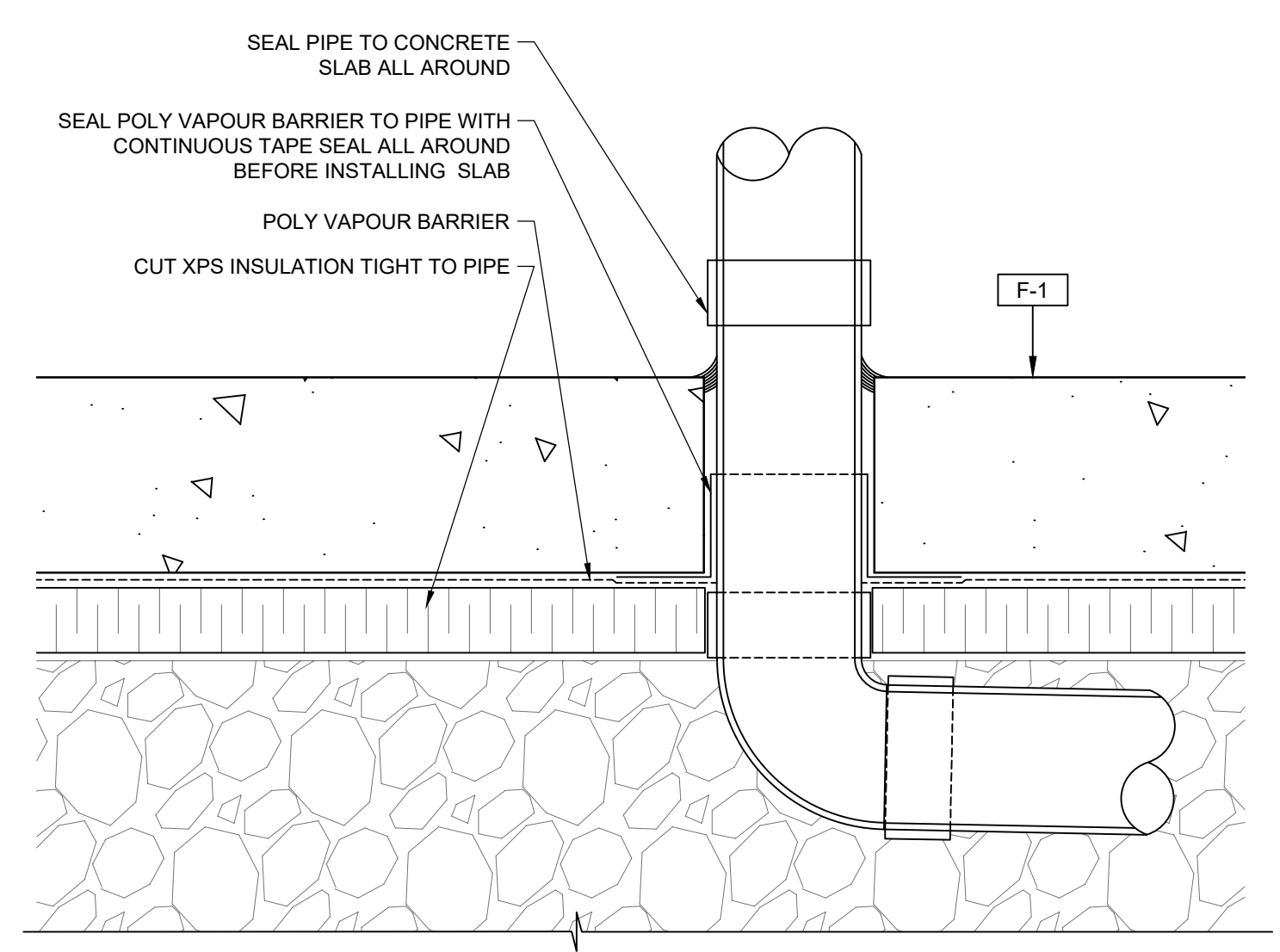
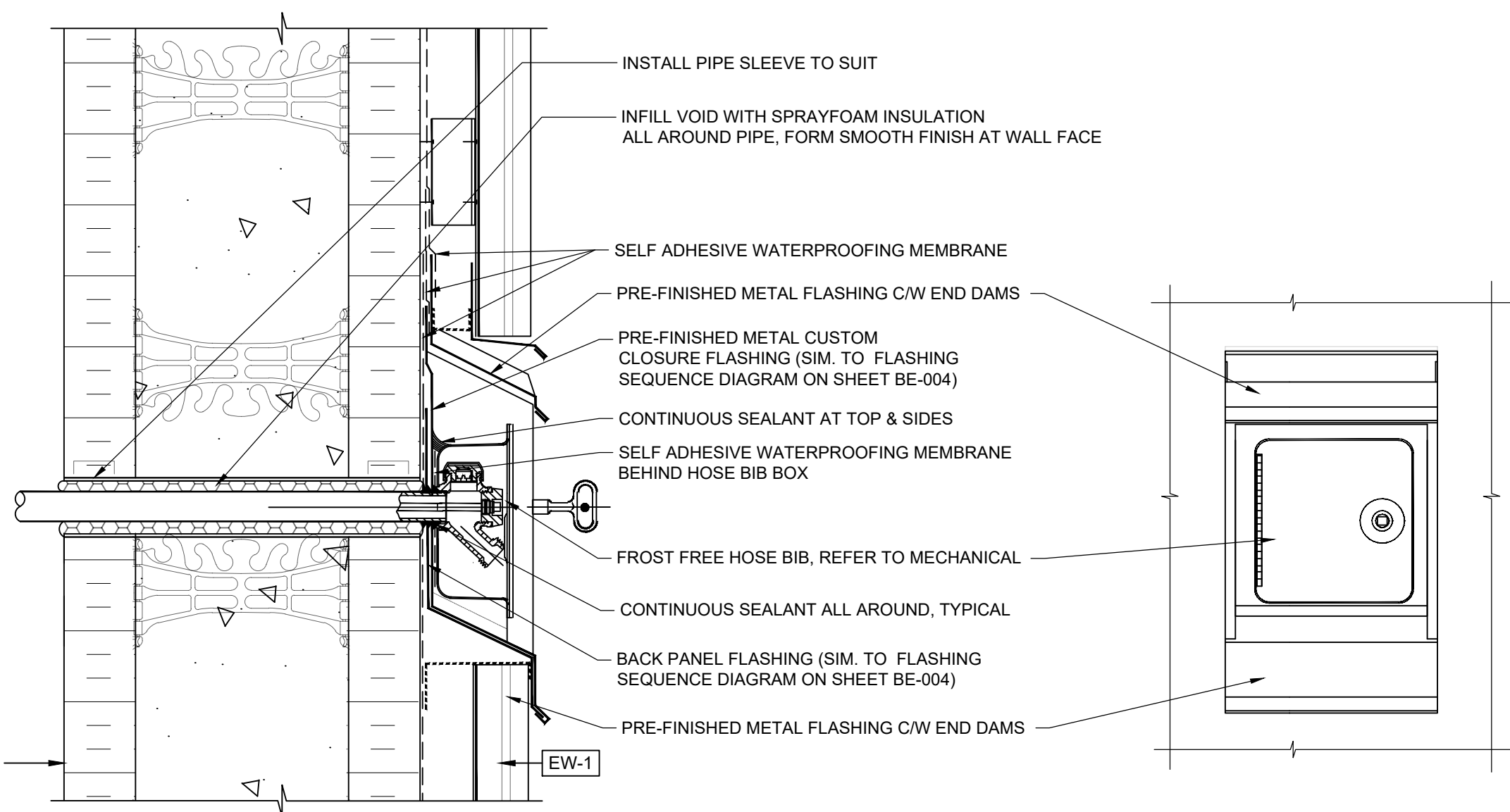
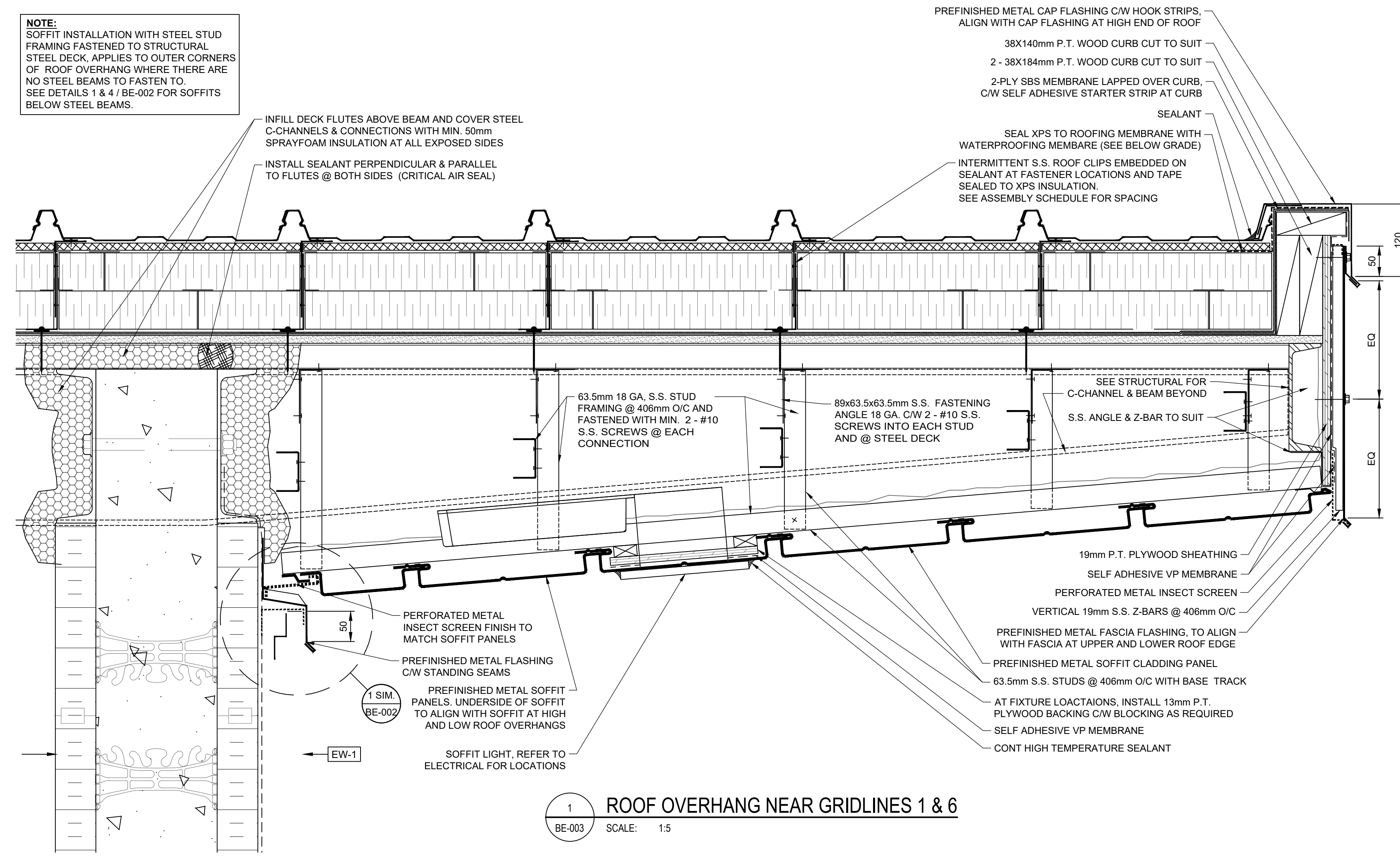
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2	ISSUED FOR 100% SUBMISSION	BY	2018-09-19
1	ISSUED FOR 80% REVIEW	BY	2018-08-31
rev	description	by	date

Asset - Actif  
**WM104 AMPHITRITE POINT  
EQUIPMENT BUILDING**  
Drawing - Dessin  
**ROOF & WALL DETAILS**

drawn - dessiné	date
BM	2018-08-30
designed - conception	date
GF	2018-08-21
checked - vérifié	date
CL	2018-08-31
approved - approuvé	date
CCG ref. no. - no. réf. GCC	scale - échelle
	AS SHOWN
drawing no. - no. dessin	sheet/feuille
BE-002	03/05 4



4 TYPICAL LOUVRE DETAIL  
BE-003 SCALE: 1:5



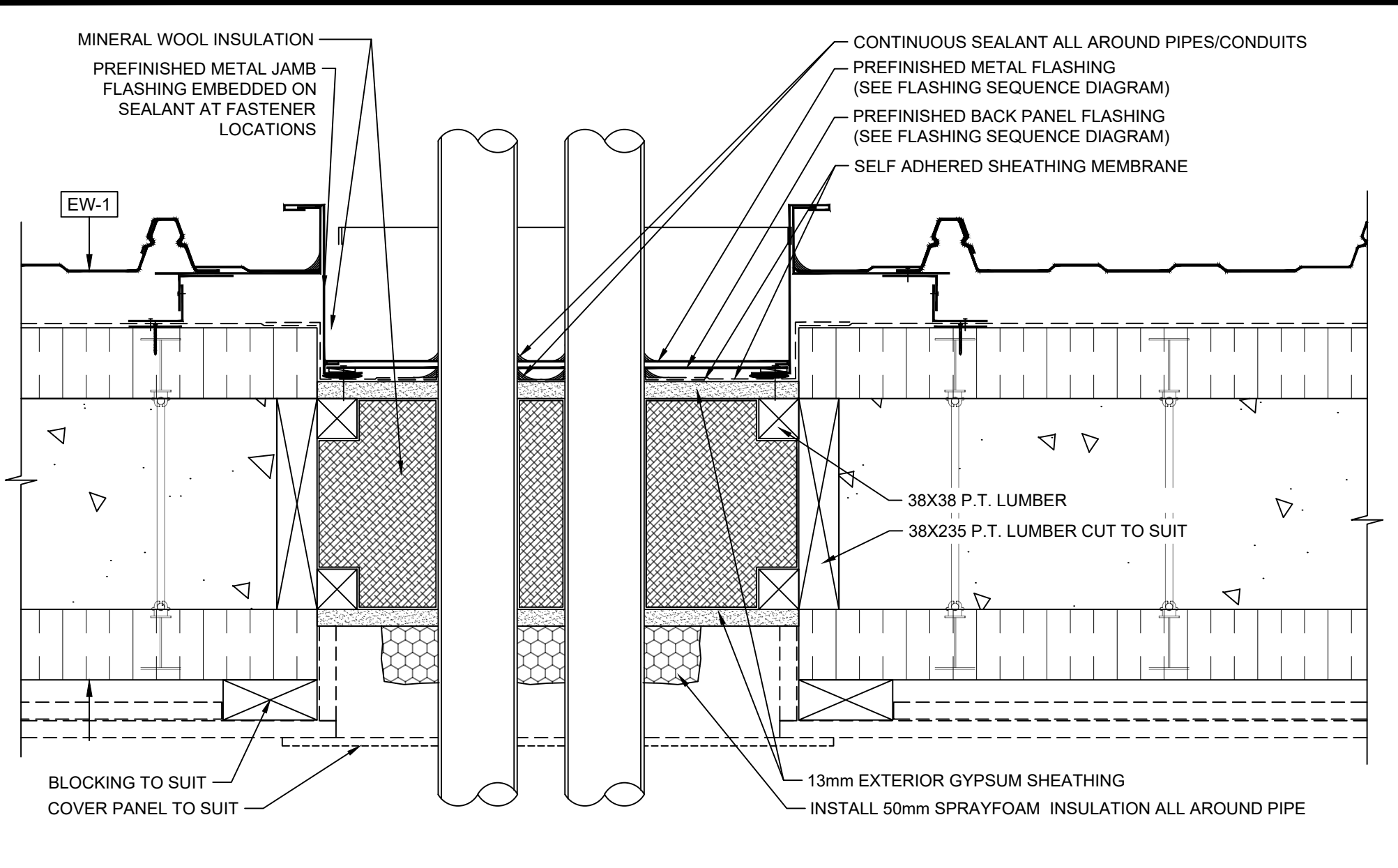
NOTE:  
• CONDITIONS VARY FOR ALL PENETRATIONS, SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL FOR LOCATIONS, SIZE AND EXACT CONDITIONS (TYPICAL)

3	REISSUED FOR TENDER	BY	2019-02-27
2	ISSUED FOR TENDER	BY	2018-10-02
1	ISSUED FOR 100% SUBMISSION	BY	2018-09-19
rev	description	by	date

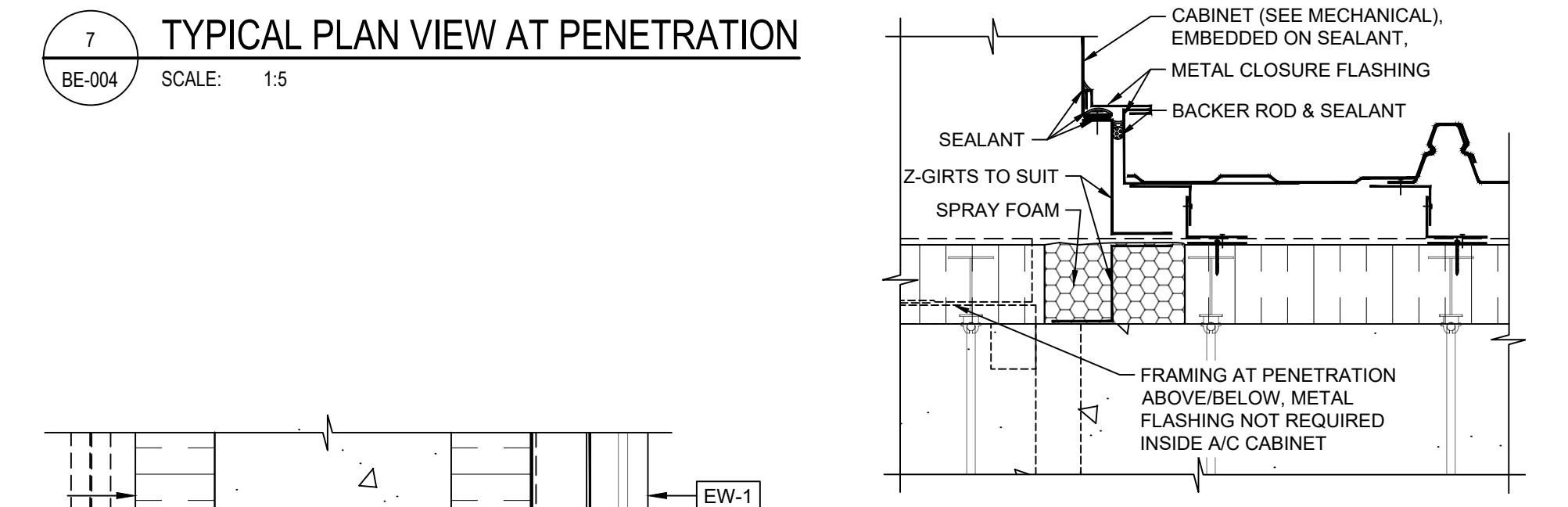
Asset - Actif  
**WM104 AMPHITRITE POINT**  
**EQUIPMENT BUILDING**  
Drawing - Dessin  
**ROOF & PENETRATION DETAILS**

drawn - dessiné	date
BM	2018-08-30
designed - conception	date
GF	2018-08-21
checked - vérifié	date
CL	2018-08-31
approved - approuvé	date
-	-
CCG ref. no. - no. réf. GCC	scale - échelle
-	AS SHOWN
drawing no. - no. dessin	sheet/feuille
BE-003	04/05
	rev-rév
	3

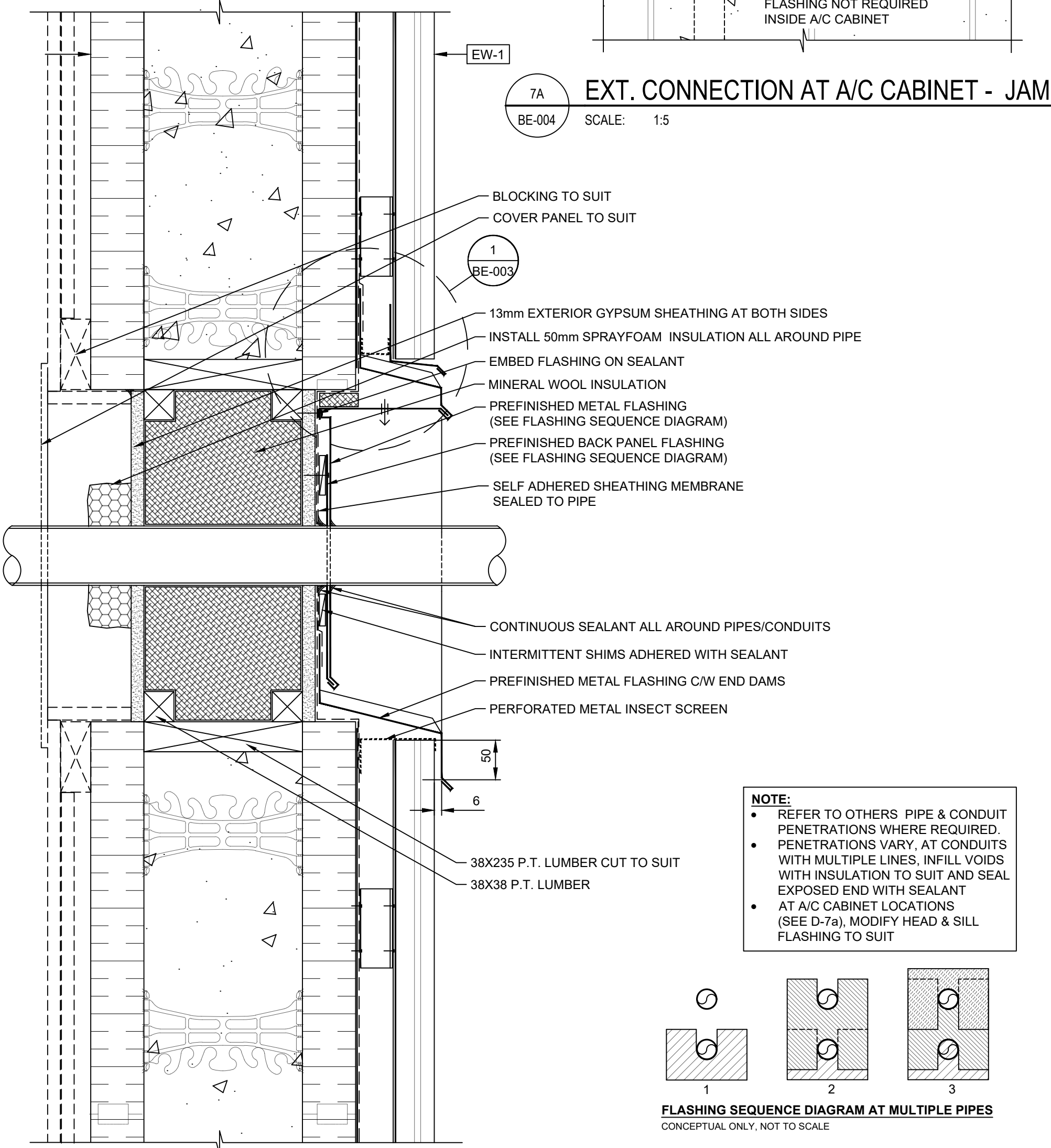
Vendor Information / Sous-traitant



7 TYPICAL PLAN VIEW AT PENETRATION  
 BE-004 SCALE: 1:5

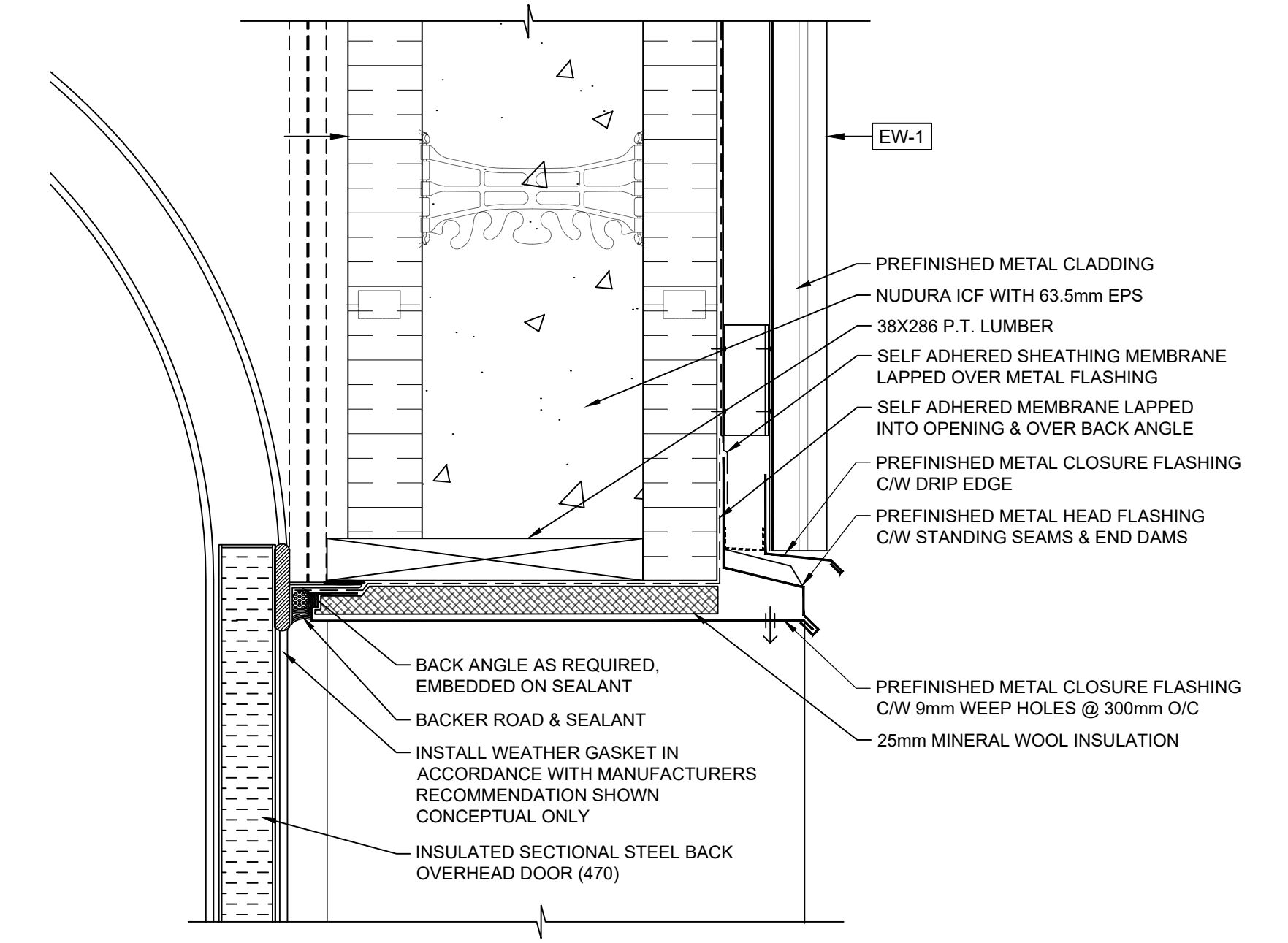
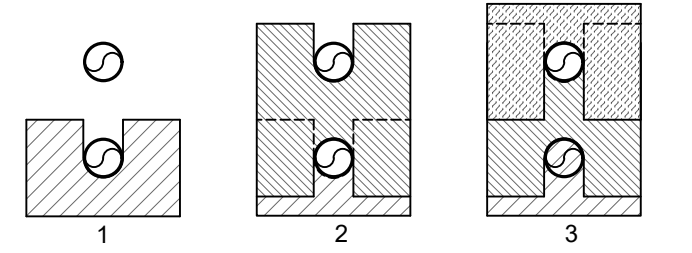


7A EXT. CONNECTION AT A/C CABINET - JAMB  
 BE-004 SCALE: 1:5

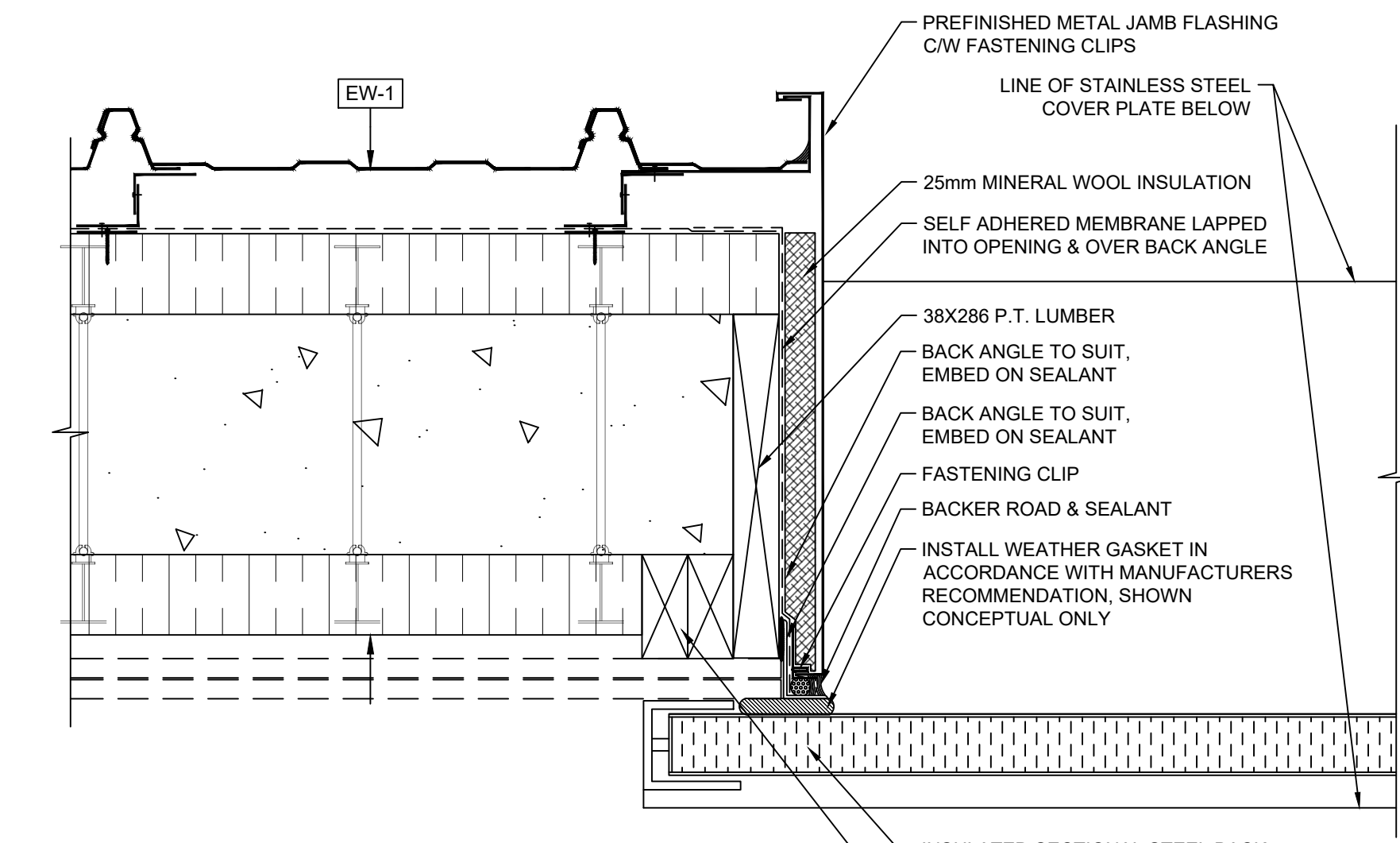


8 TYPICAL SECTION AT PENETRATION  
 BE-004 SCALE: 1:5

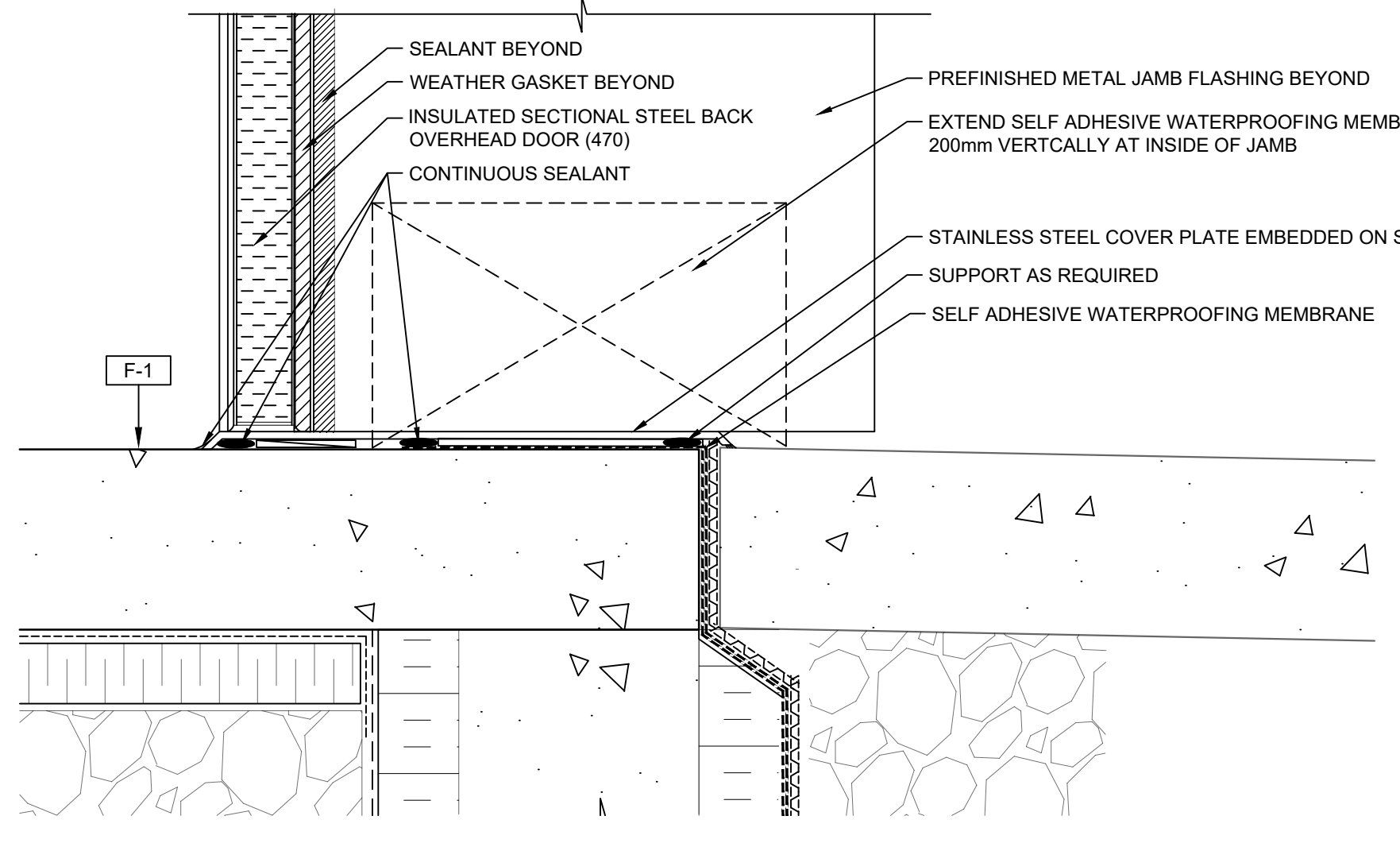
**NOTE:**  
 • REFER TO OTHERS PIPE & CONDUIT PENETRATIONS WHERE REQUIRED.  
 • PENETRATIONS VARY, AT CONDUITS WITH MULTIPLE LINES, INFILL VOIDS WITH INSULATION TO SUIT AND SEAL EXPOSED END WITH SEALANT  
 • AT A/C CABINET LOCATIONS (SEE D-7a), MODIFY HEAD & SILL FLASHING TO SUIT



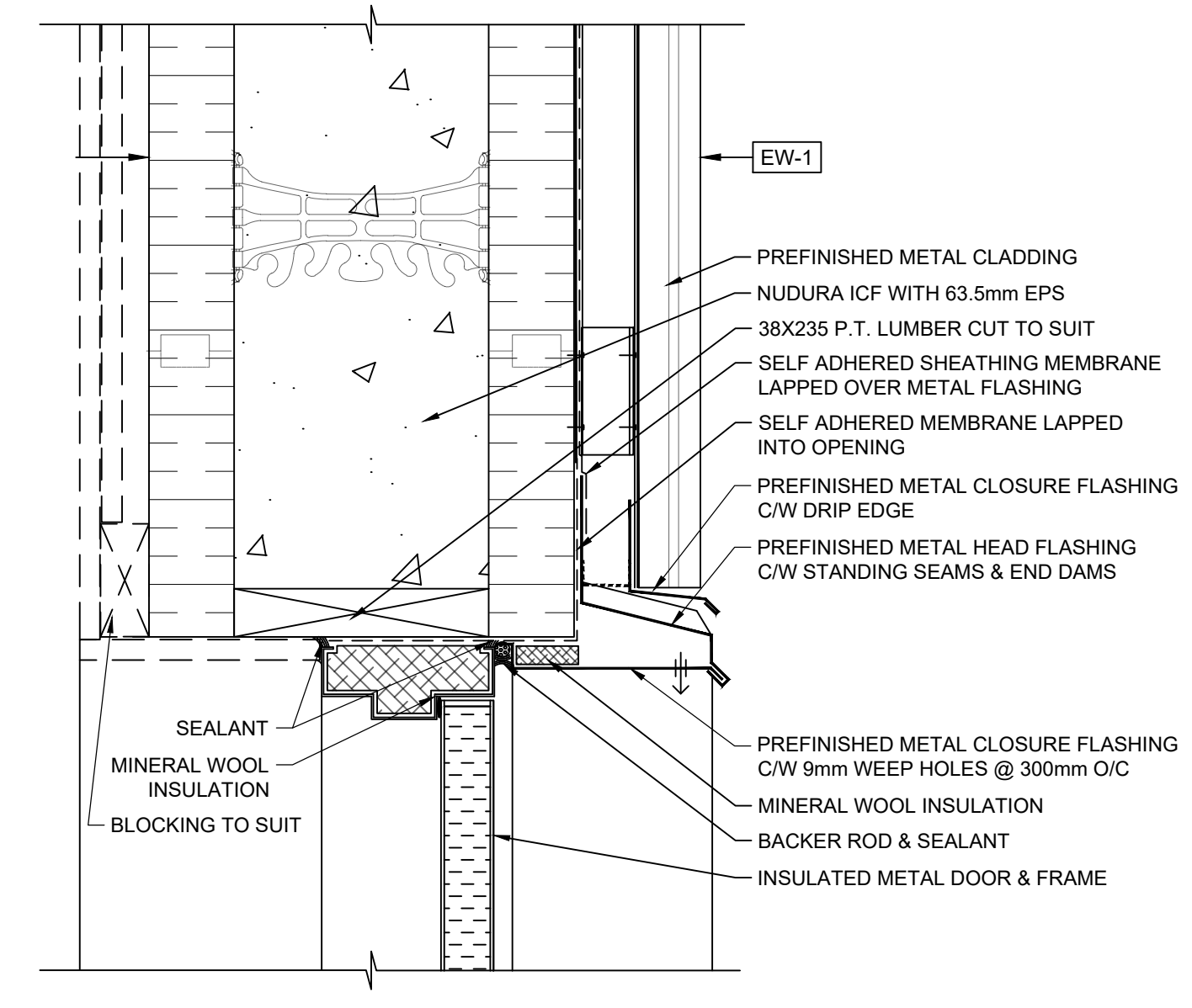
4 OVERHEAD DOOR HEAD  
 BE-004 SCALE: 1:5



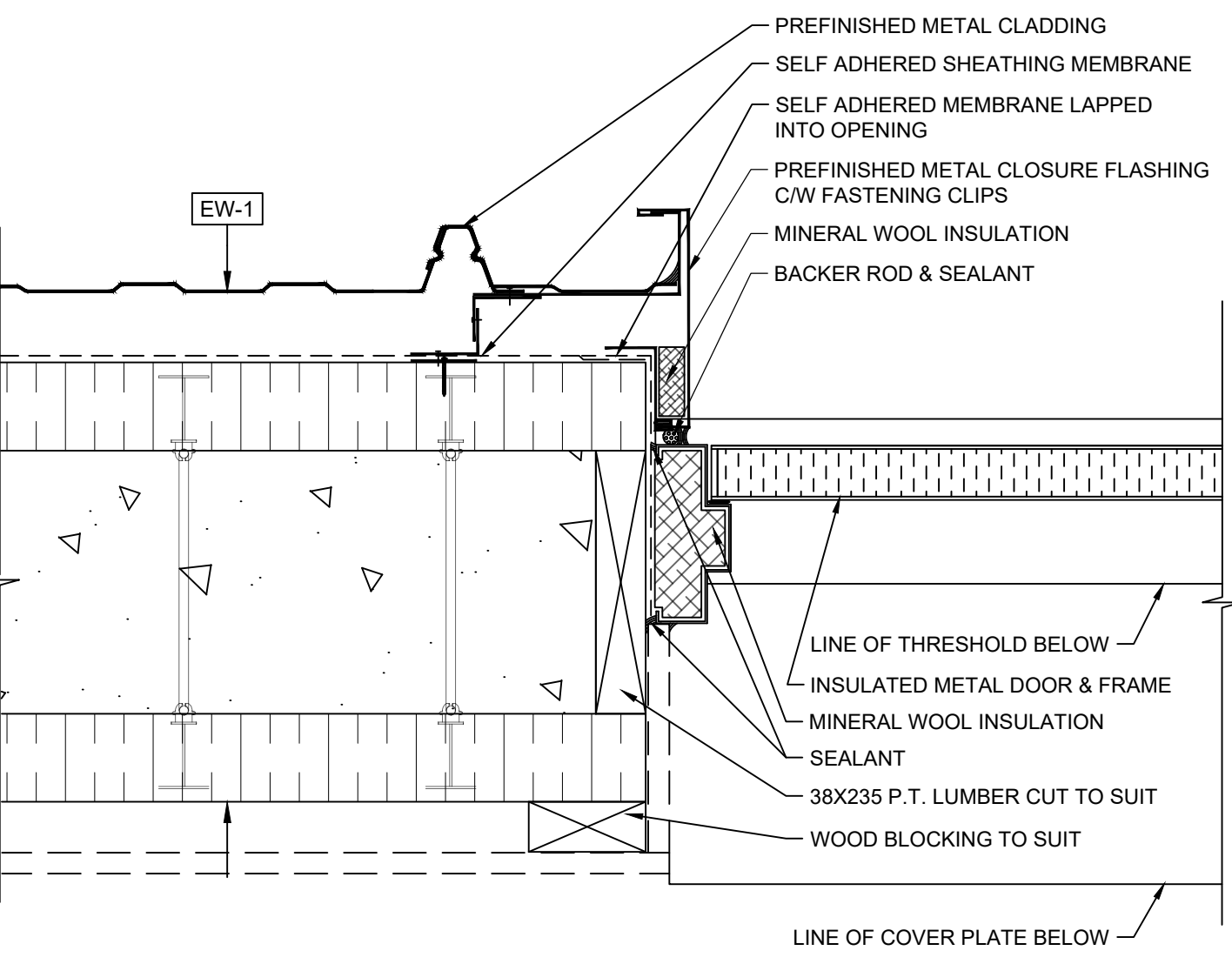
5 OVERHEAD DOOR JAMB  
 BE-004 SCALE: 1:5



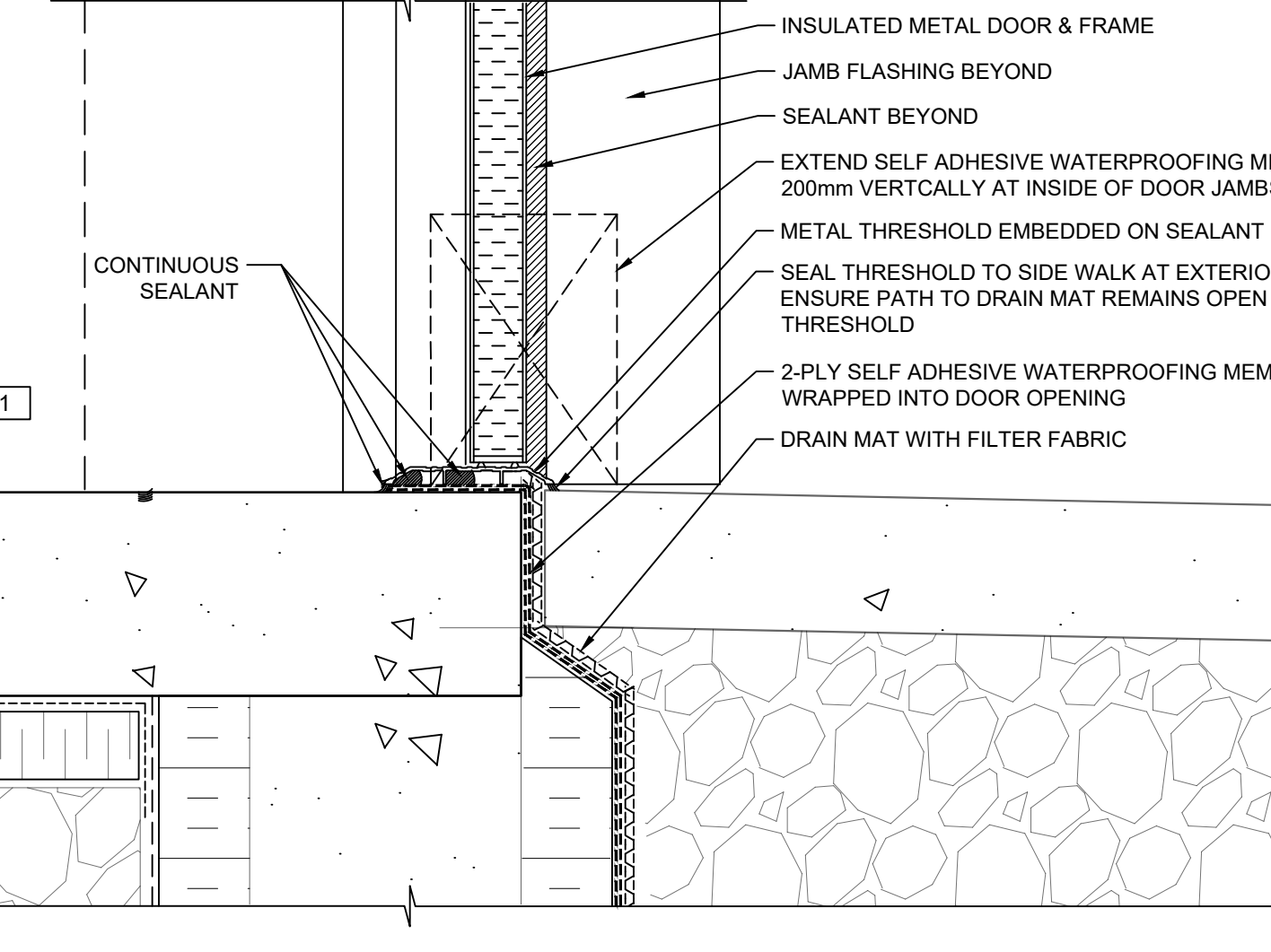
6 OVERHEAD DOOR SILL  
 BE-004 SCALE: 1:5



1 TYPICAL EXTERIOR DOOR HEAD  
 BE-004 SCALE: 1:5



2 TYPICAL EXTERIOR DOOR JAMB  
 BE-004 SCALE: 1:5



3 EXTERIOR DOOR SILL @ EAST ELEVATION  
 BE-004 SCALE: 1:5

4	REISSUED FOR TENDER	BY	2019-02-27
3	ISSUED FOR TENDER	BY	2018-10-02
2	ISSUED FOR 100% SUBMISSION	BY	2018-09-19
1	ISSUED FOR 80% REVIEW	BY	2018-08-31
rev	description	by	date

Asset - Actif  
**WM104 AMPHITRITE POINT**  
**EQUIPMENT BUILDING**

Drawing - Dessin  
**DOOR & PENETRATION**  
**DETAILS**

drawn - dessiné	date
BM	2018-08-31
designed - conception	date
GF	2018-08-22
checked - vérifié	date
CL	2018-08-31
approved - approuvé	date
CCG ref. no. - no. réf. GCC	scale - échelle
	AS SHOWN
drawing no. - no. dessin	sheet/feuille
BE-004	05/05 4

GENERAL

- THIS IS A METRIC PROJECT. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN MILLIMETERS.
- PROVIDE ALL MATERIAL AND LABOUR REQUIRED FOR COMPLETION OF THE WORK.
- PRIOR TO CONSTRUCTION, REVIEW STRUCTURAL DRAWINGS IN CONJUNCTION WITH DRAWINGS PROVIDED BY ALL OTHER CONSULTANTS, AND WITH EXISTING CONDITIONS.
- REPORT DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
- VERIFY EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO CONSTRUCTION.
- DO NOT SCALE THESE DRAWINGS.
- DRAWINGS SHOW COMPLETED STRUCTURE ONLY. THEY DO NOT SHOW TEMPORARY WORKS FOR WHICH THE CONTRACTOR IS RESPONSIBLE AND WHICH MAY BE REQUIRED FOR EXECUTION OF THE PROJECT. THE CONTRACTOR TO ESTABLISH CONSTRUCTION PROCEDURE AND SEQUENCE TO ENSURE SAFETY OF THE WHOLE STRUCTURE AND ALL ITS COMPONENTS DURING ERECTION.
- MAKE ADEQUATE PROVISIONS FOR ALL LOADS ACTING ON THE STRUCTURE DURING ERECTION. PROVIDE TEMPORARY SHORING AND BRACING TO KEEP THE STRUCTURE PLUMB AND IN TRUE ALIGNMENT DURING CONSTRUCTION.
- DESIGN OF ALL TEMPORARY WORKS TO BE CARRIED OUT BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR, LICENSED IN BRITISH COLUMBIA.
- THE DEPARTMENTAL REPRESENTATIVE WILL PROVIDE PERIODIC FIELD REVIEW OF A REPRESENTATIVE SAMPLE OF THE STRUCTURAL WORKS DETAILED ON THESE DRAWINGS FOR GENERAL CONFORMANCE WITH CONTRACT DOCUMENTS. THESE REVIEWS DO NOT REPLACE THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT AND MAINTAIN A QUALITY CONTROL PROGRAM, AND DO NOT MAKE THE DEPARTMENTAL REPRESENTATIVE GUARANTOR OF THE CONTRACTORS WORK.
- ASSIST THE DEPARTMENTAL REPRESENTATIVE IN DOING FIELD REVIEW, AND PROVIDE SAFE ACCESS TO WORK AREAS AS REQUIRED.
- CHECK THE WORK PRIOR TO FIELD REVIEW TO CONFIRM IT IS COMPLETED AND IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- NOTIFY THE DEPARTMENTAL REPRESENTATIVE 5 BUSINESS DAYS PRIOR TO CONCRETE POURS, BACKFILLING, AND COVERING UP THE STRUCTURE WITH FINISHES.

DESIGN CRITERIA

- STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2015 NATIONAL BUILDING CODE (NBC), SUPPLEMENTED BY THE 2015 NATIONAL BUILDING CODE OF CANADA STRUCTURAL COMMENTARY.
- ALL REFERENCED STANDARDS SHALL BE THE CURRENT EDITION OF THE EDITION REFERENCED BY THE APPLICABLE BUILDING CODE IN FORCE AT THE TIME OF BUILDING PERMIT APPLICATION.
- THE VALUES FOR CLIMATIC DATA USED IN THE DETERMINATION OF DESIGN LOADS HAVE BEEN OBTAINED FROM THE 2015 NBC FOR THE SPECIFIC LOCATION OF UCLUELET
- BASED ON THE USE AND OCCUPANCY, THE BUILDING IS DESIGNED TO THE REQUIREMENTS OF A POST DISASTER IMPORTANCE CATEGORY.
- IF ONLY ONE VALUE IS GIVEN FOR A LOAD, CONSIDER IT LIVE LOAD.
- SNOW:  $S_s = 1.0 \text{ kPa}$ ;  $S_r = 0.4 \text{ kPa}$ ;  $I_s \text{ (ULS)} = 1.25$ ;  $I_s \text{ (SLS)} = 0.9$
- LATERAL LOADS IN THIS STRUCTURE ARE RESISTED BY SHEAR WALLS, AND ARE DETERMINED BASED ON THE WIND AND SEISMIC DATA BELOW.
- WIND:  $q_{50} = 0.68 \text{ kPa}$ ;  $I_w \text{ (ULS)} = 1.25$ ;  $I_w \text{ (SLS)} = 0.75$   
TERRAIN TYPE: OPEN  
INTERNAL PRESSURE CATEGORY: 2
- SEISMIC  
 $S_a \text{ (0.2)} = 1.49$        $R_d = 2.0$   
 $S_a \text{ (0.5)} = 1.39$        $R_o = 1.4$   
 $S_a \text{ (1.0)} = 0.89$        $I_e = 1.5$   
 $S_a \text{ (2.0)} = 0.54$       SITE CLASSIFICATION = SITE CLASS A  
PGA = 0.711  
SEISMIC FORCE RESISTING SYSTEM (SFRS): MODERATELY DUCTILE CONCRETE SHEAR WALLS

FOUNDATIONS

- STRUCTURAL DESIGN IS BASED ON THE GEOTECHNICAL DRAFT REPORT PREPARED BY SIMPSON GEOTECHNICAL LTD., REPORT NUMBER SGL16-021, DATED AUGUST 10, 2016. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL FOUNDATION AND EARTHWORK INFORMATION.
- SET FOUNDATIONS ON HORIZONTAL UNDISTURBED SOIL CAPABLE OF SUPPORTING BEARING PRESSURE OF 2000kPa AT FACTORED ULS AND 400 kPa AT SLS.
- PREPARE BEARING SURFACE BELOW FOUNDATIONS AS PER GEOTECHNICAL ENGINEERS RECOMMENDATIONS.
- UNLESS OTHERWISE NOTED, CENTRE FOOTINGS, PIERS, PILES, AND PILE CAPS UNDER CENTROID OF COLUMNS. WHERE THERE ARE NO COLUMNS ABOVE, CENTRE UNDER WALLS OR GRADE BEAMS.
- LOCATE ALL EXISTING UNDERGROUND SERVICES PRIOR TO EXCAVATION.
- FOR ELEMENTS THAT ARE TO BE BACKFILLED ON BOTH SIDES, PLACE BACKFILL SIMULTANEOUSLY ON BOTH SIDES SUCH THAT HEIGHTS DO NOT VARY BY MORE THAN 600 (2) FROM ONE SIDE TO THE OTHER.

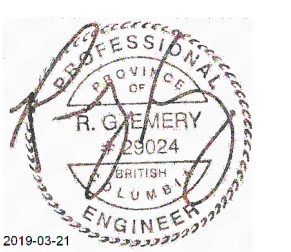
ABBREVIATIONS

- AB - ANCHOR BOLT
- ALT - ALTERNATE
- ARCH - ARCHITECT
- BOT - BOTTOM
- BLDG - BUILDING
- BM - BEAM
- BS - BOTH SIDES
- CCJ - CRACK CONTROL JOINT
- CJ - CONSTRUCTION JOINT
- CLR - CLEAR COVER
- CP - COMPLETE PENETRATION WELD
- C/W - COMPLETE WITH
- DWG - DRAWING
- EF - EACH FACE
- EL - ELEVATION
- ELEV - ELEVATION
- ES - EACH SIDE
- EW - EACH WAY
- FTG - FOOTING
- FS - FAR SIDE
- GALV - GALVANIZED
- HBE - HOOK BOTH ENDS
- HORIZ - HORIZONTAL
- ICF - INSULATED CONCRETE FORM
- LG - LONG
- MAX - MAXIMUM
- MIN - MINIMUM
- NS - NEAR SIDE
- NTS - NOT TO SCALE
- OC - ON CENTER
- R/W - REINFORCE WITH
- REINF - REINFORCEMENT
- SOG - SLAB ON GRADE
- STD - STANDARD
- T&B - TOP & BOTTOM
- TOC - TOP OF CONCRETE
- TOF - TOP OF FOOTING
- TOS - TOP OF STEEL
- TYP - TYPICAL
- UN - UNLESS NOTED
- US - UNDERSIDE
- VB - VAPOUR BARRIER
- VERT - VERTICAL

Vendor Information / Sous-traitant



WSP PROJECT NO. 181-10545-00



3	RE-ISSUED FOR TENDER	DJ	2019-03-21
2	ISSUED FOR TENDER	DJ	2018-10-02
1	ISSUED FOR 100% REVIEW	DJ	2018-09-19
0	ISSUED FOR 80% REVIEW	DJ	2018-08-31

rev	description	by	date
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Asset - Actif

WM104 AMPHITRITE POINT  
EQUIPMENT BUILDING

Drawing - Dessin

GENERAL NOTES

drawn - dessiné	date
G.MAJOR/R.MAR	2018.08.17
designed - conception	date
D.JANSEN	2018.08.31
checked - vérifié	date
REMERY	2018.08.31
approved - approuvé	date
S.CHILDS	2018.08.31
CCG ref. no. - no. ref. GCC	scale - échelle
WM104-1025	AS NOTED
drawing no. - no. dessin	sheet/feuille
S-001	01/04
	rev-rév
	3

D

C

B

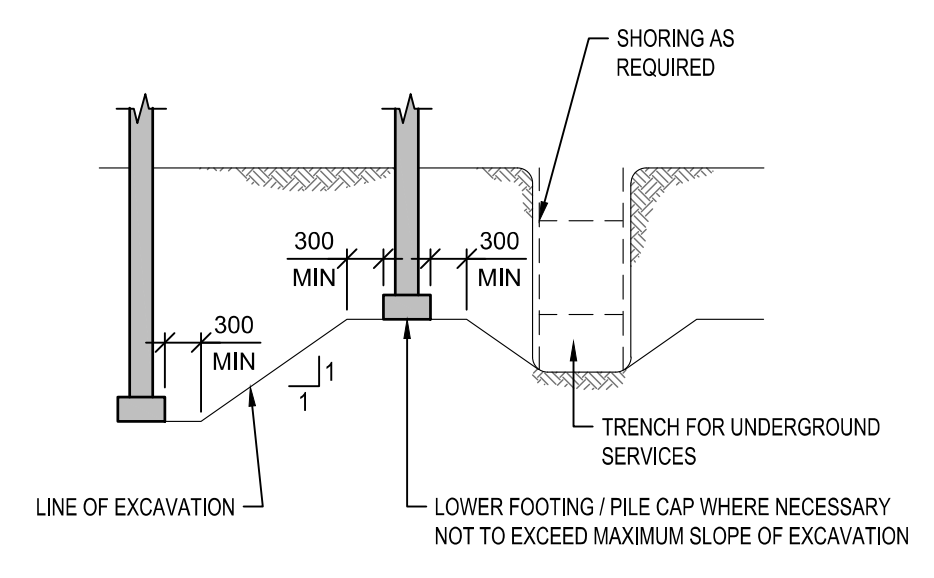
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S-001

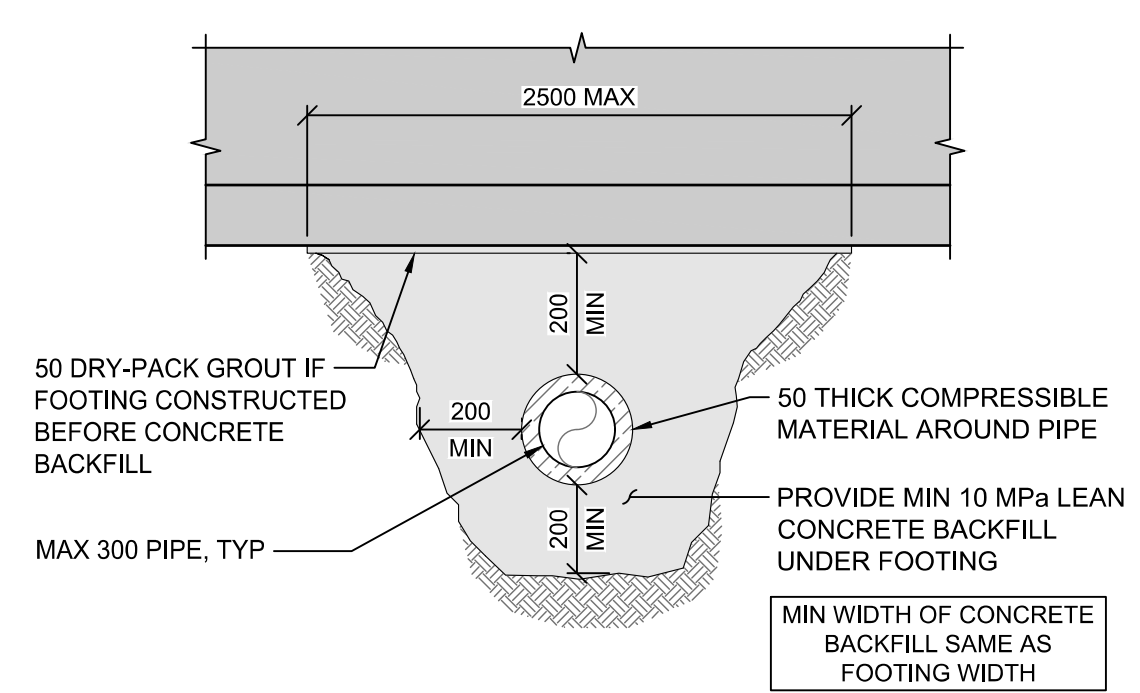
Vendor Information / Sous-traitant



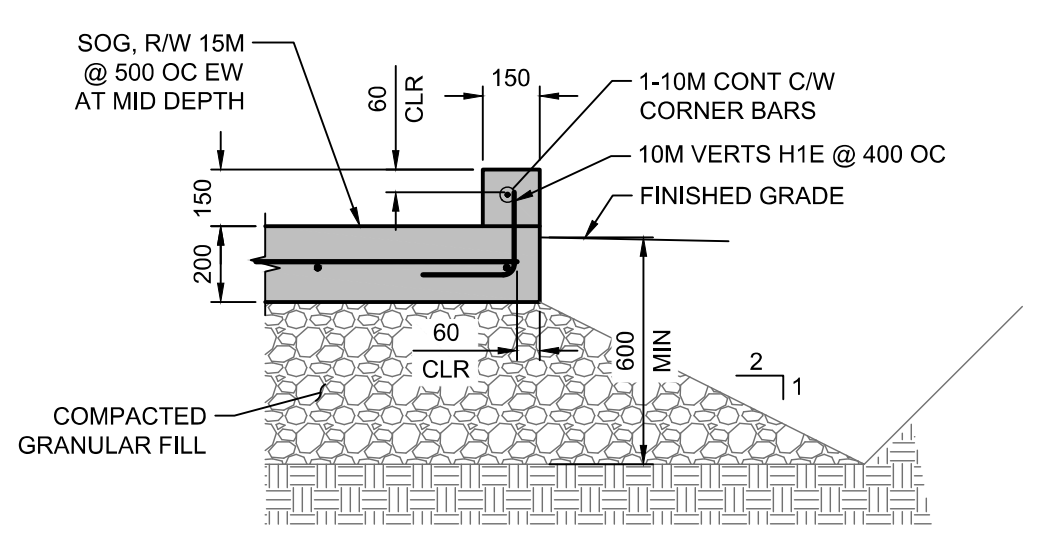
WSP PROJECT NO. 181-10545-00



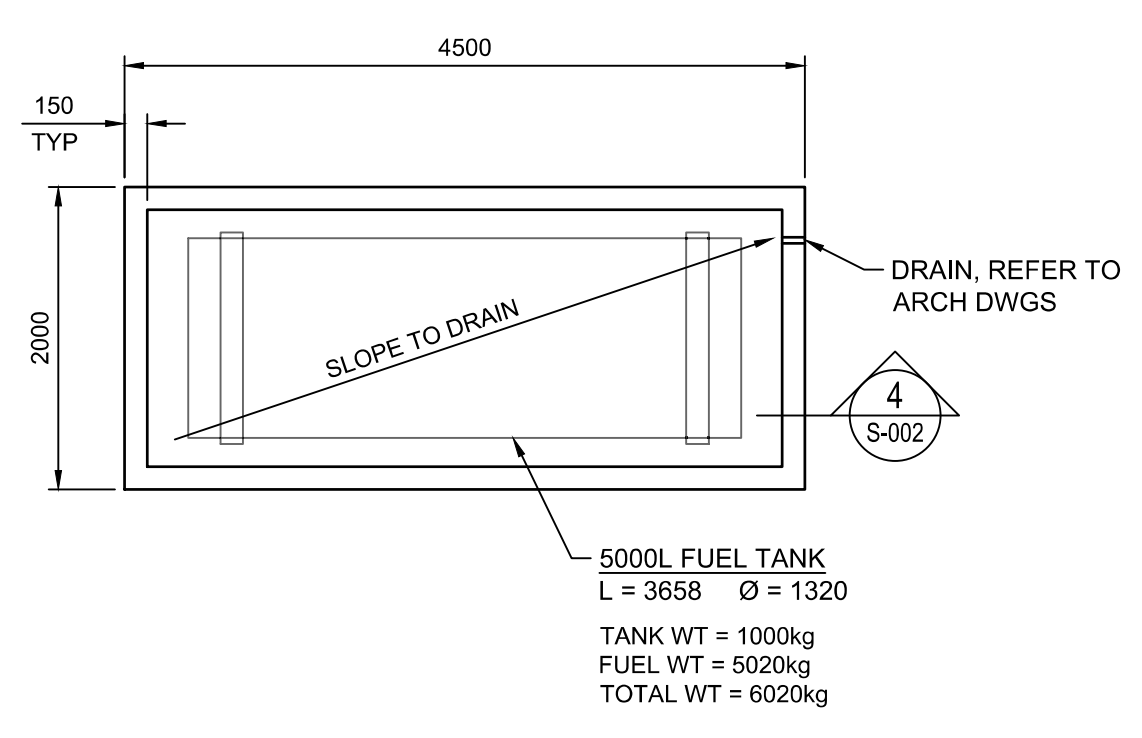
6 SLOPE BETWEEN ADJACENT EXCAVATIONS  
SCALE: NTS



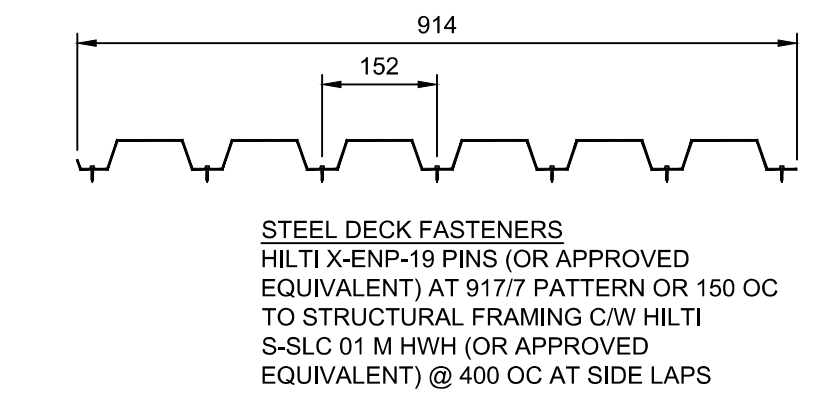
5 PIPES BELOW STRIP FOOTINGS  
SCALE: NTS



4 SECTION AT FUEL PAD  
SCALE: 1:20



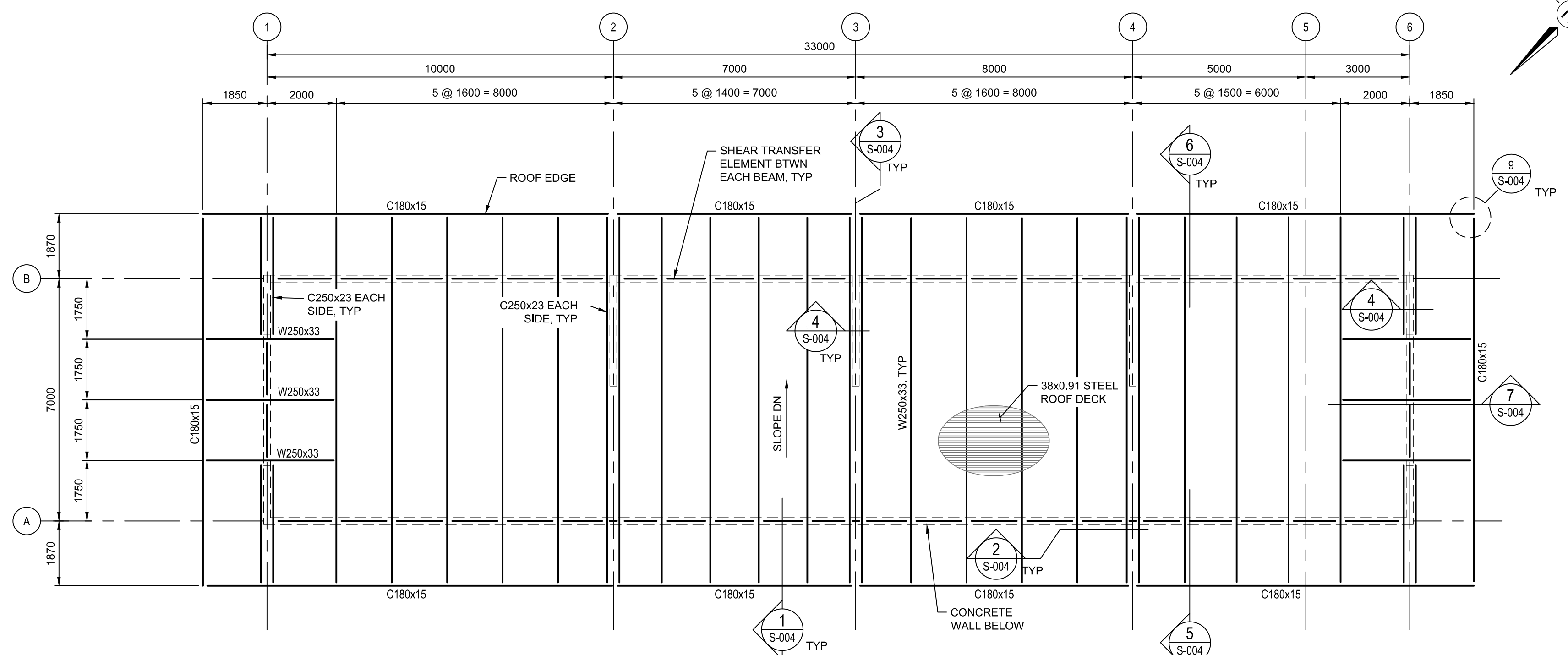
3 FUEL TANK PAD PLAN  
SCALE: 1:50



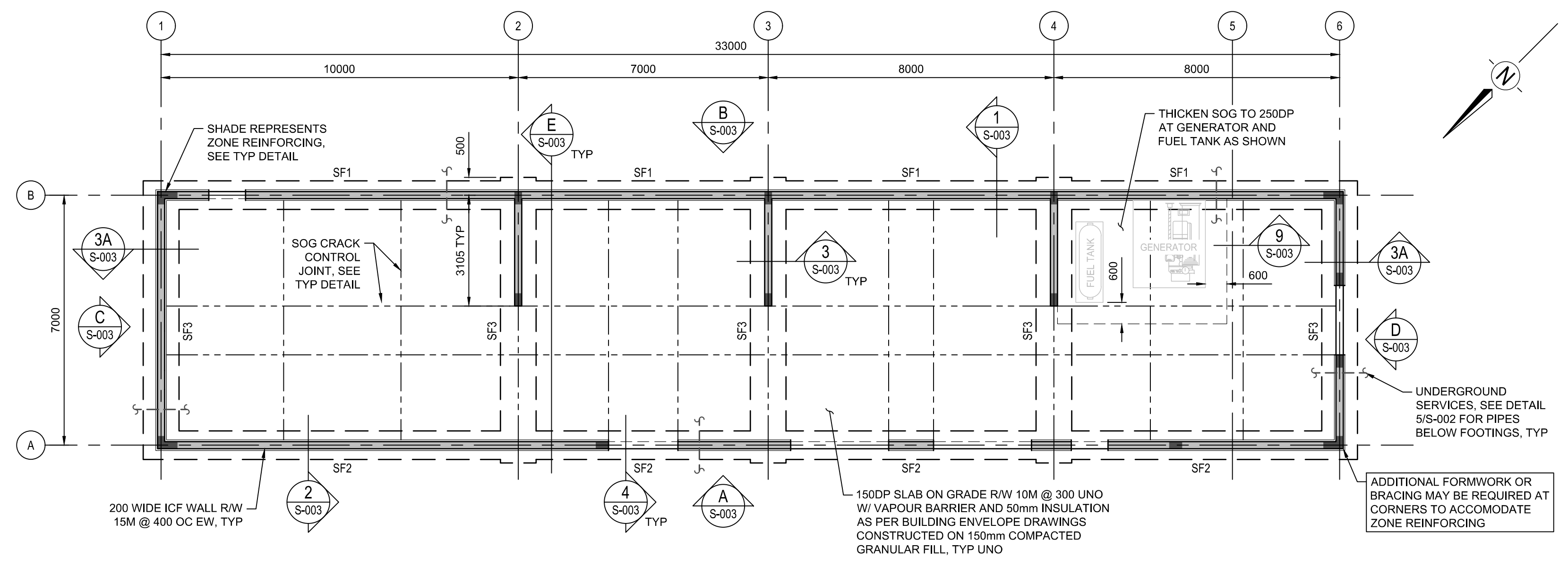
38mm ROOF DECK FASTENING PATTERN

STANDARD REINFORCING HOOK AND LAP LENGTHS			
BAR SIZE	VERT LAP	HORIZ LAP	HOOK LENGTH
10M	430	500	180
15M	600	800	250
20M	750	1000	300
25M	1200	1550	400
30M	1450	1850	600

CONCRETE COVER ON PRINCIPAL REINFORCING	
SURFACES PLACED IN CONTACT WITH GROUND	75mm [3"]
FORMED SURFACES EXPOSED TO GROUND OR WEATHER	50mm [2"]
SUSPENDED SLABS AND SLABBANDS	25mm [1"]
BEAMS AND COLUMNS	50mm [2"]
COLUMN TIES AND BEAM STIRRUPS	40mm [1 1/2"]

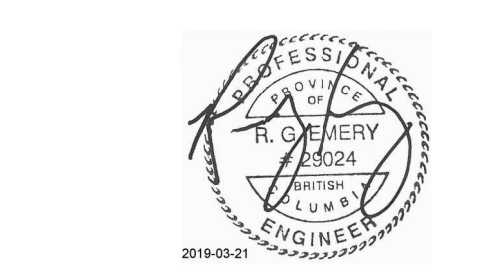


2 ROOF FRAMING PLAN  
SCALE: 1:100



1 FOUNDATION & MAIN FLOOR PLAN  
SCALE: 1:100

STRIP FOOTING SCHEDULE		
MARK	SIZE	REINFORCEMENT
SF1	800x450 DP	SEE DETAIL
SF2	800x600 DP	SEE DETAIL
SF3	1000x600 DP	SEE DETAIL



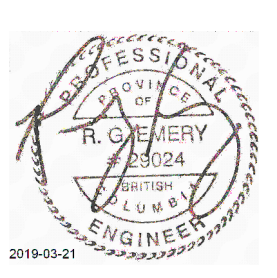
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2	ISSUED FOR TENDER	DJ	2018-10-02
1	ISSUED FOR 100% REVIEW	DJ	2018-09-19
0	ISSUED FOR 80% REVIEW	DJ	2018-08-31

Asset - Actif  
**WM104 AMPHITRITE POINT**  
**EQUIPMENT BUILDING**  
Drawing - Dessin  
**BUILDING PLANS AND FUEL TANK FOUNDATION PAD**

drawn - dessiné	date
G.MAJOR/R.MAR	2018.08.17
designed - conception	date
D.JANSEN	2018.08.31
checked - vérifié	date
R.MERY	2018.08.31
approved - approuvé	date
S.CHILDS	2018.08.31
CCG ref. no. - no. ref. GCC	scale - échelle
WM104-1025	AS NOTED
drawing no. - no. dessin	sheet/feuille
S-002	02/04



WSP PROJECT NO. 181-10545-00

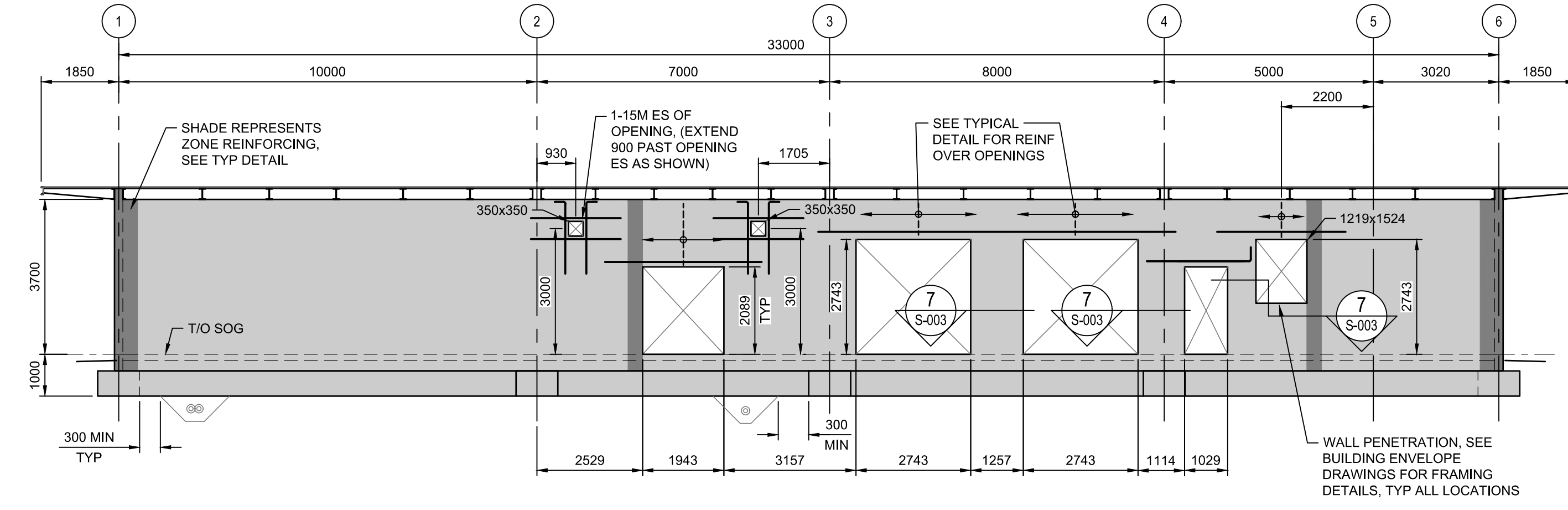


3	RE-ISSUED FOR TENDER	DJ	2019-03-21
2	ISSUED FOR TENDER	DJ	2018-10-02
1	ISSUED FOR 100% REVIEW	DJ	2018-09-19
0	ISSUED FOR 80% REVIEW	DJ	2018-08-31
rev	description	by	date
Asset - Actif		par	

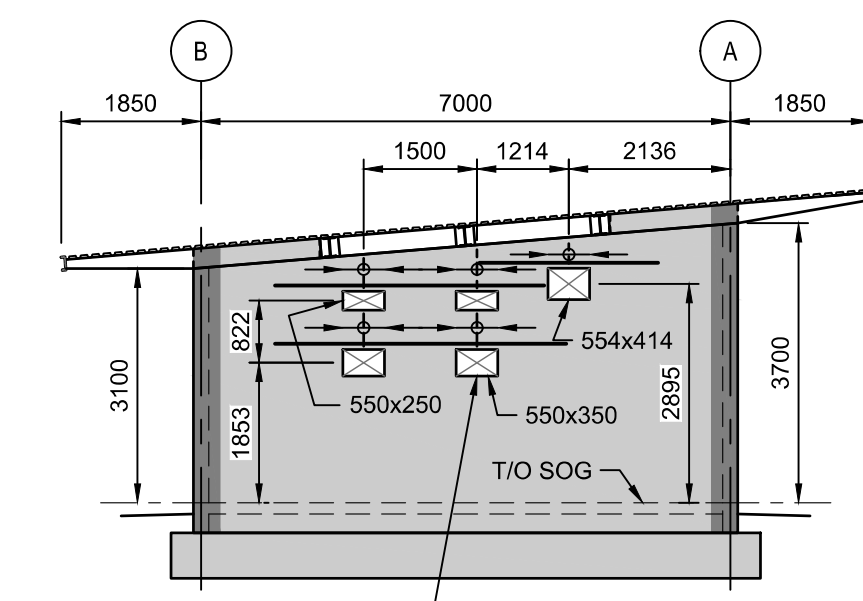
**WM104 AMPHITRITE POINT  
EQUIPMENT BUILDING**

**WALL ELEVATIONS AND  
FOUNDATION SECTIONS**

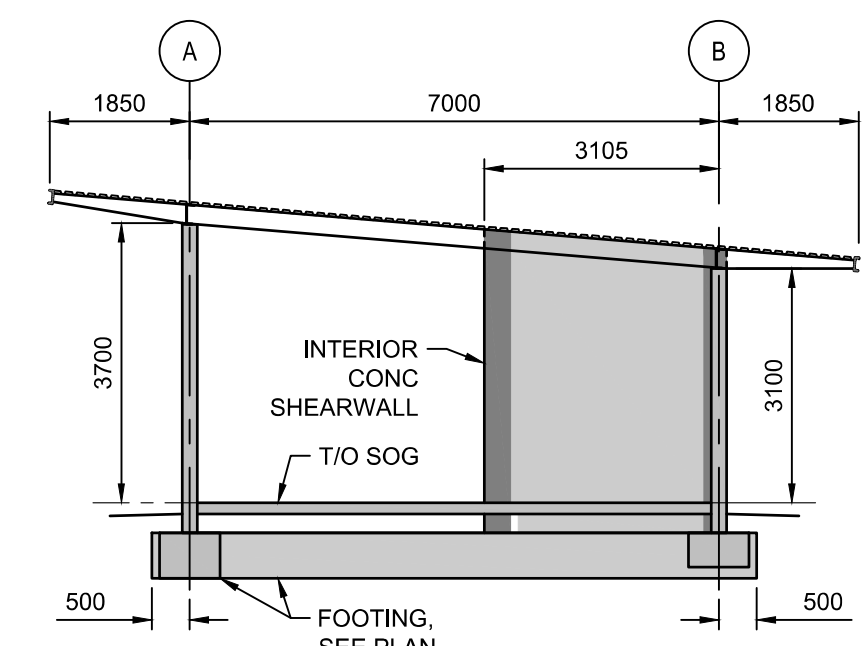
drawn - dessiné	date
G.MAJOR/R.MAR	2018.08.17
designed - conception	date
D.JANSEN	2018.08.31
checked - vérifié	date
R.EMERY	2018.08.31
approved - approuvé	date
S.CHILDS	2018.08.31
CCG ref. no. - no. ref. GCC	scale - échelle
WM104-1025	AS NOTED
drawing no. - no. dessin	sheet/feuille
S-003	03/04 3



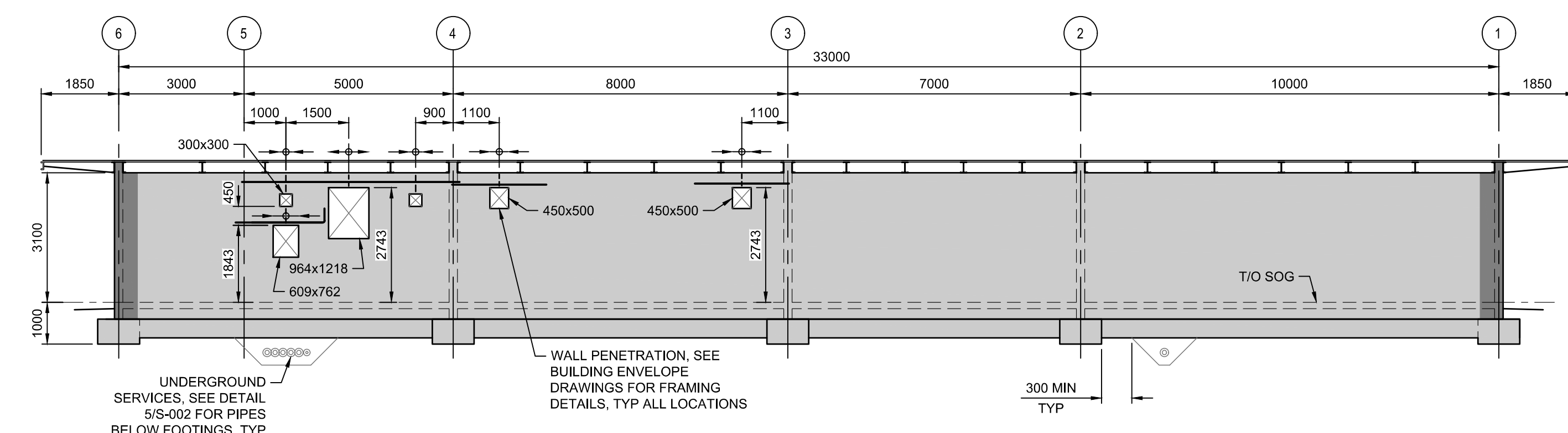
**A ELEVATION AT GRID A**  
S-002 SCALE: 1:100



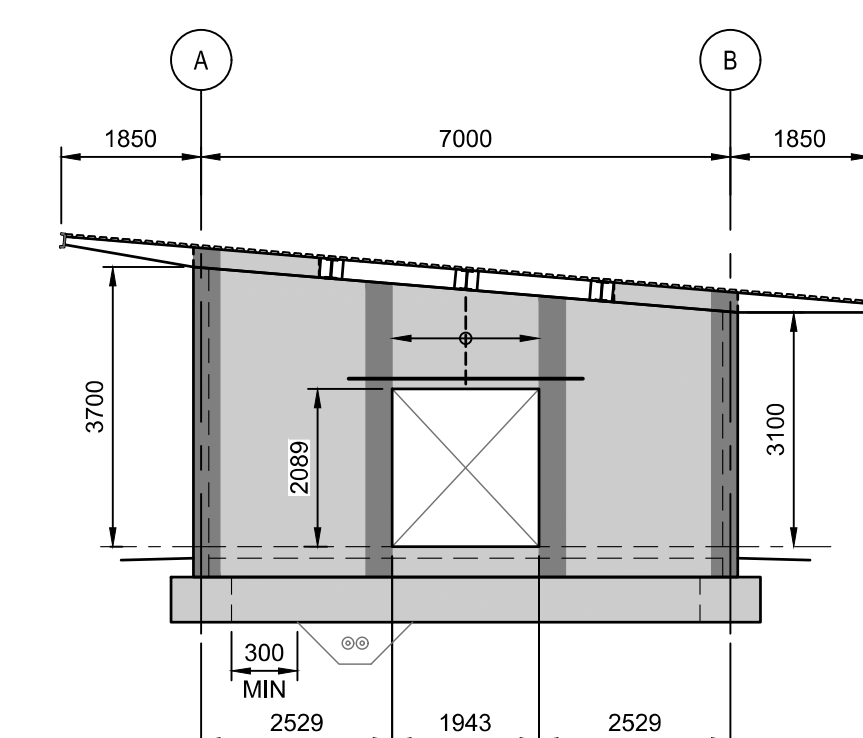
**C ELEVATION AT GRID 1**  
S-002 SCALE: 1:100



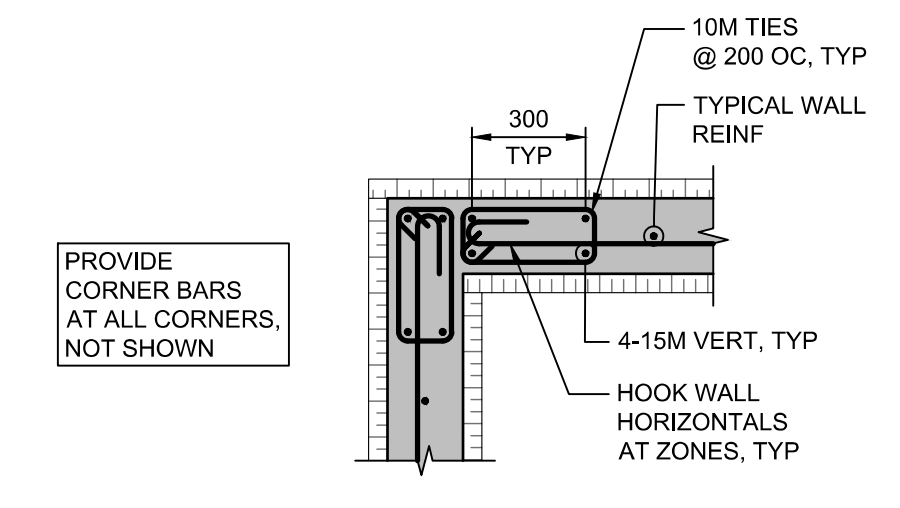
**E BUILDING SECTION AT INTERIOR SHEARWALL**  
S-002 SCALE: 1:100



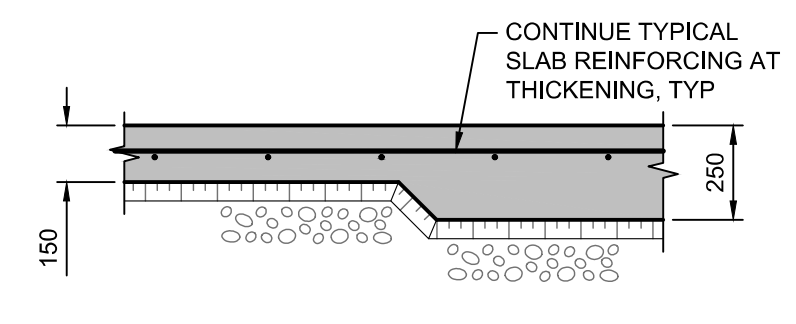
**B ELEVATION AT GRID B**  
S-002 SCALE: 1:100



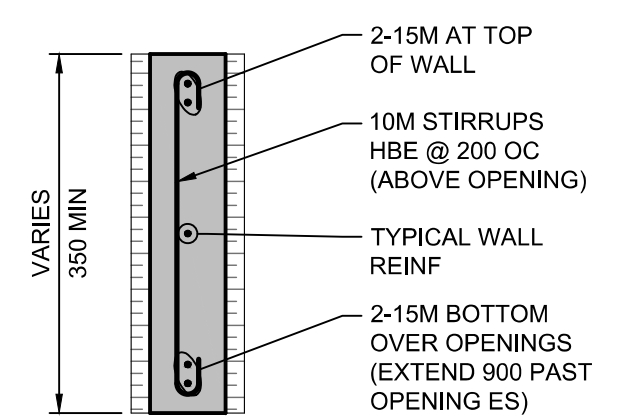
**D ELEVATION AT GRID 6**  
S-002 SCALE: 1:100



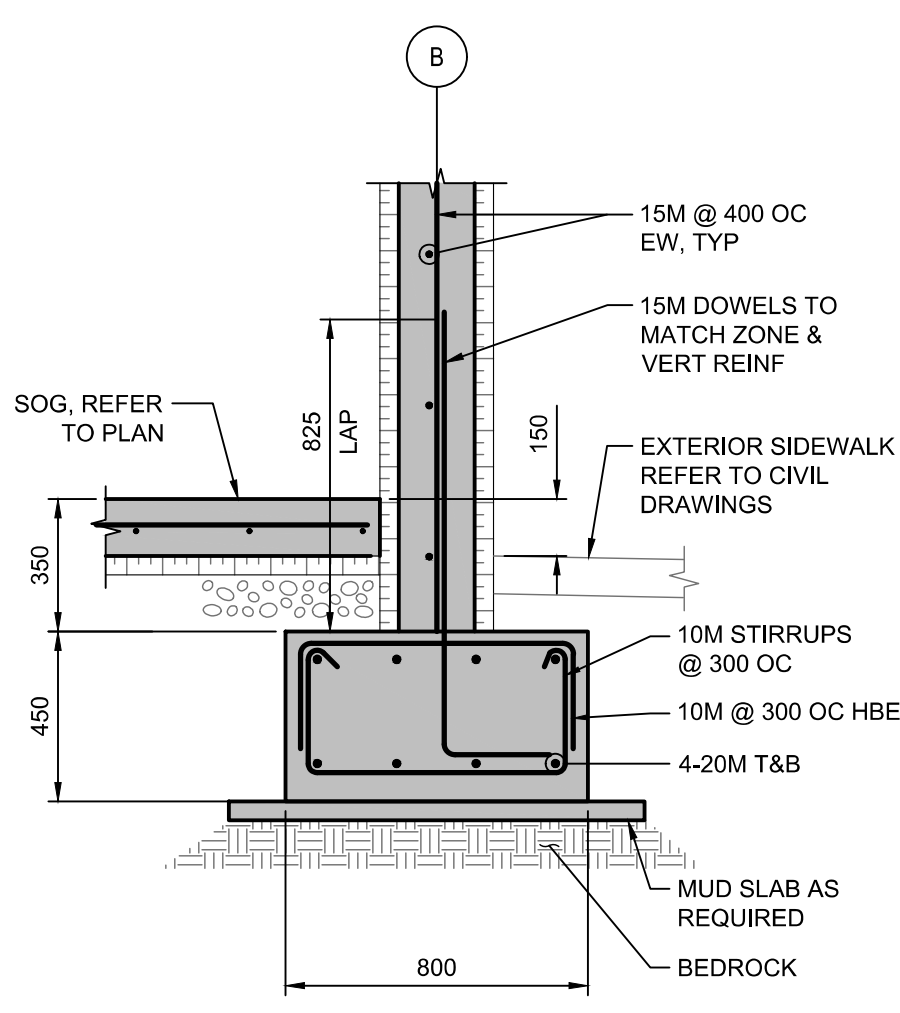
**5 TYPICAL ZONE REINFORCEMENT**  
S-002 SCALE: 1:20



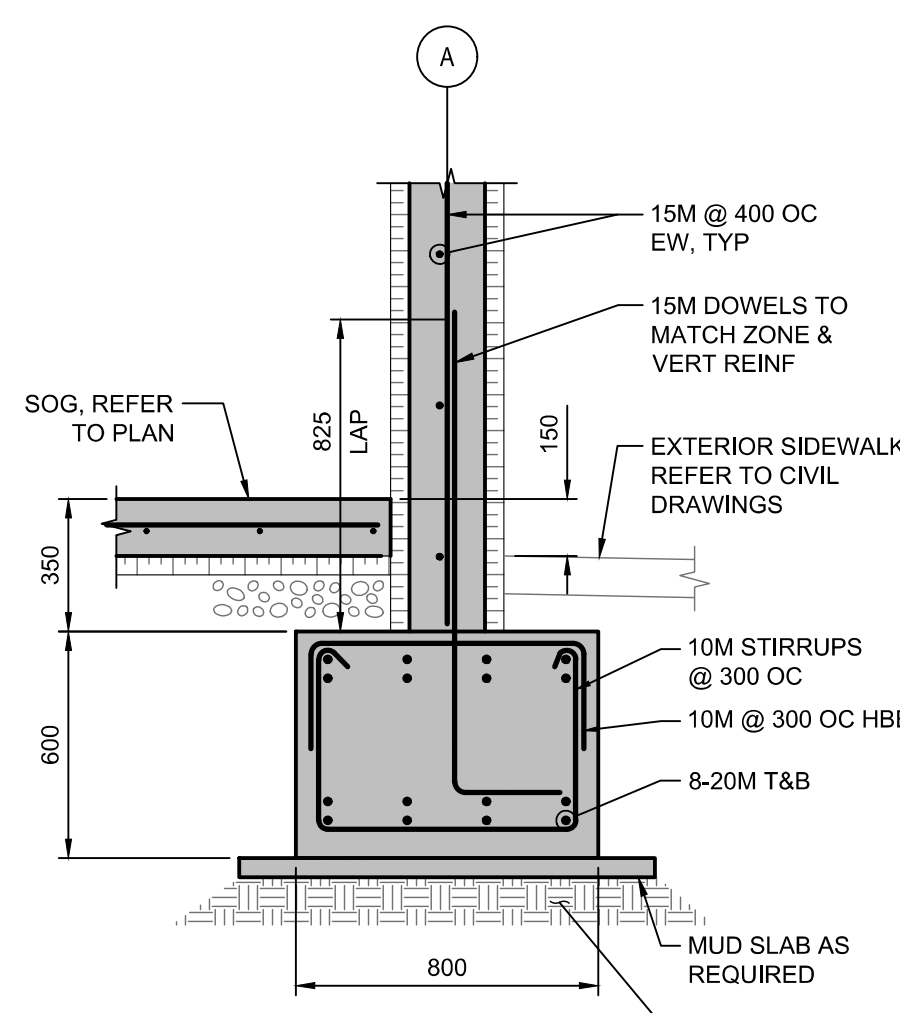
**9 SLAB THICKENING DETAIL**  
S-002 SCALE: 1:20



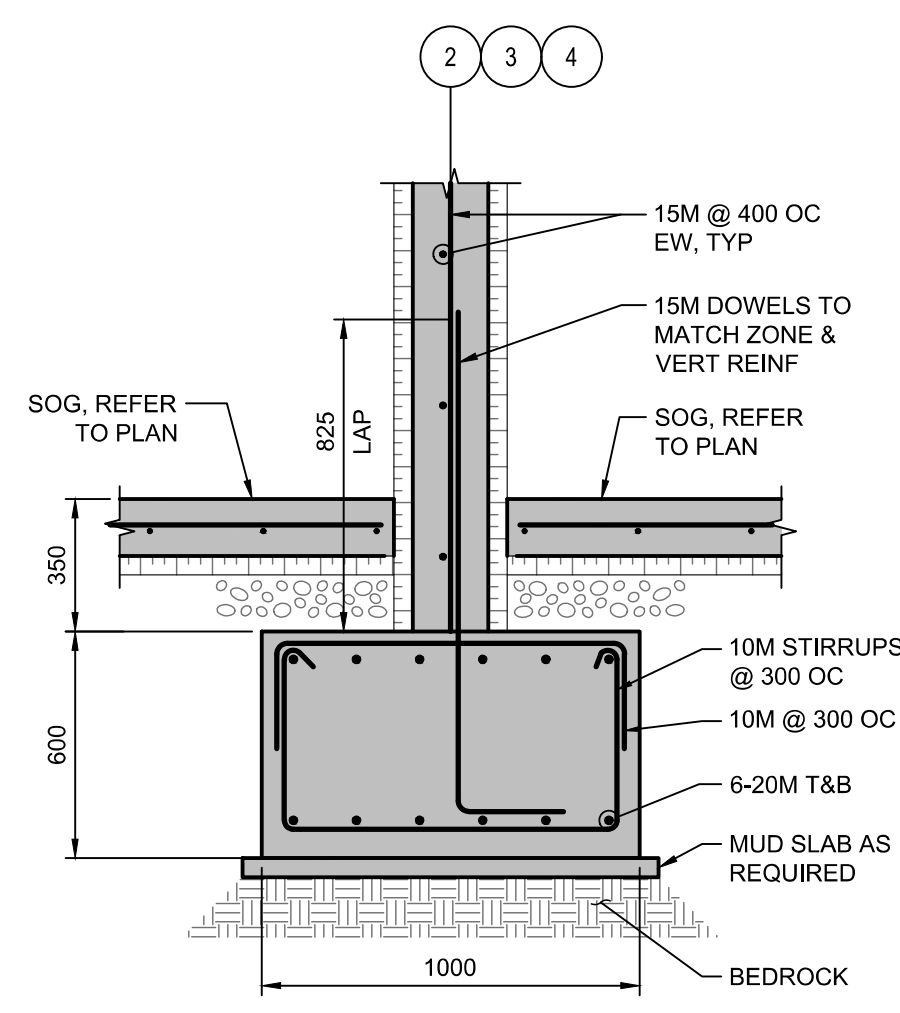
**6 TYPICAL REINFORCEMENT ABOVE ALL OPENINGS**  
S-003 SCALE: 1:20



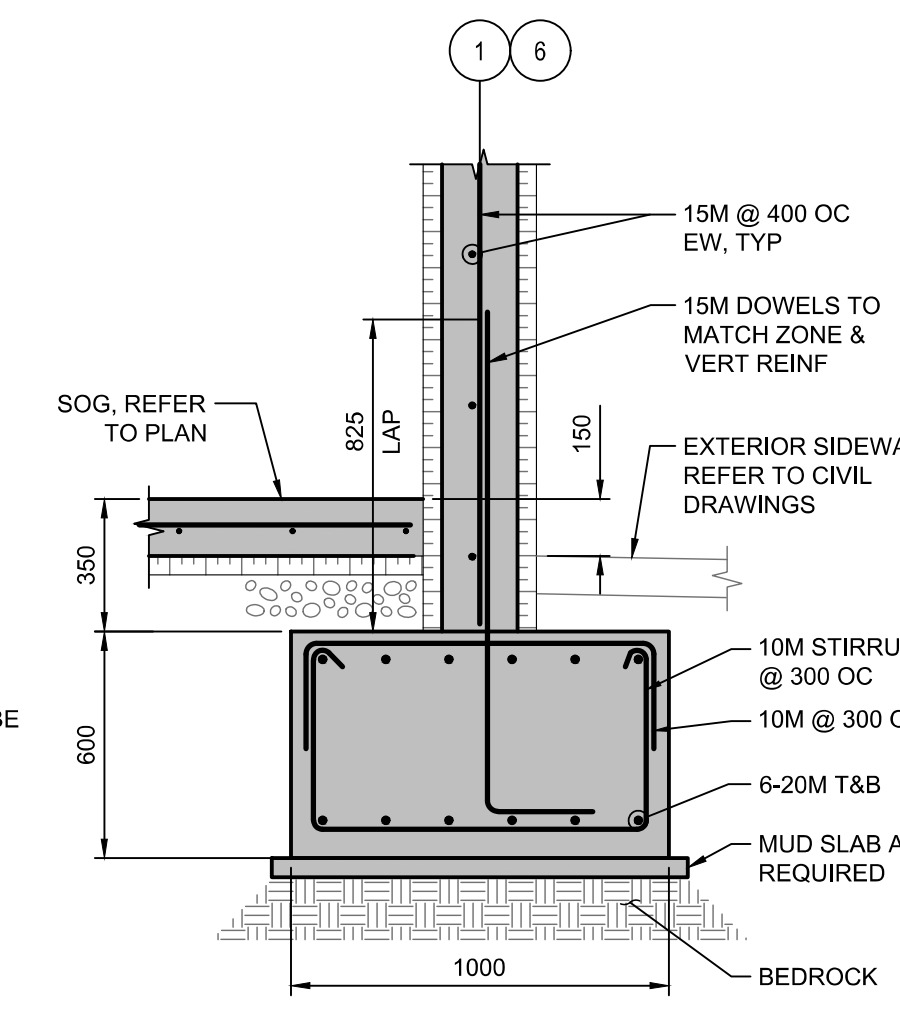
**1 SECTION AT SF1**  
S-002 SCALE: 1:20



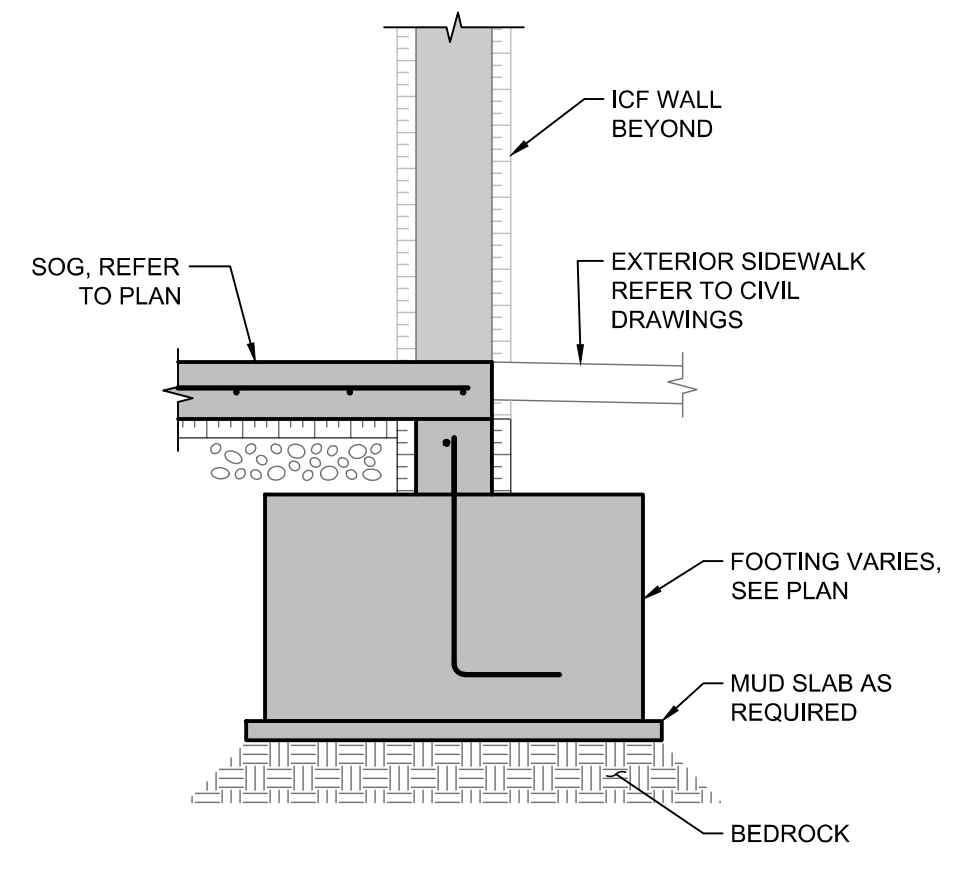
**2 SECTION AT SF2**  
S-002 SCALE: 1:20



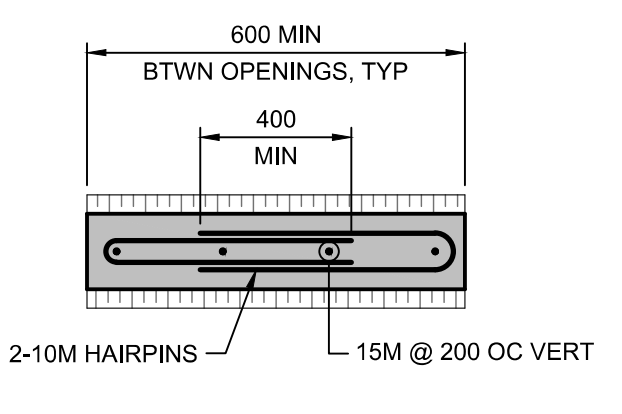
**3 SECTION AT SF3 INTERIOR WALL**  
S-002 SCALE: 1:20



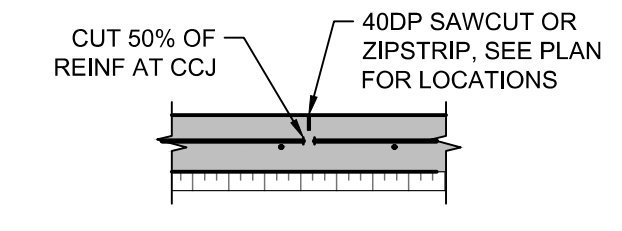
**3A SECTION AT SF3 EXTERIOR WALL**  
S-002 SCALE: 1:20



**4 DOOR OPENINGS DETAIL**  
S-002 SCALE: 1:20



**7 TYPICAL REINFORCEMENT BETWEEN OPENINGS**  
S-003 SCALE: 1:20



**8 TYP CRACK CONTROL JOINT**  
S-002 SCALE: 1:20

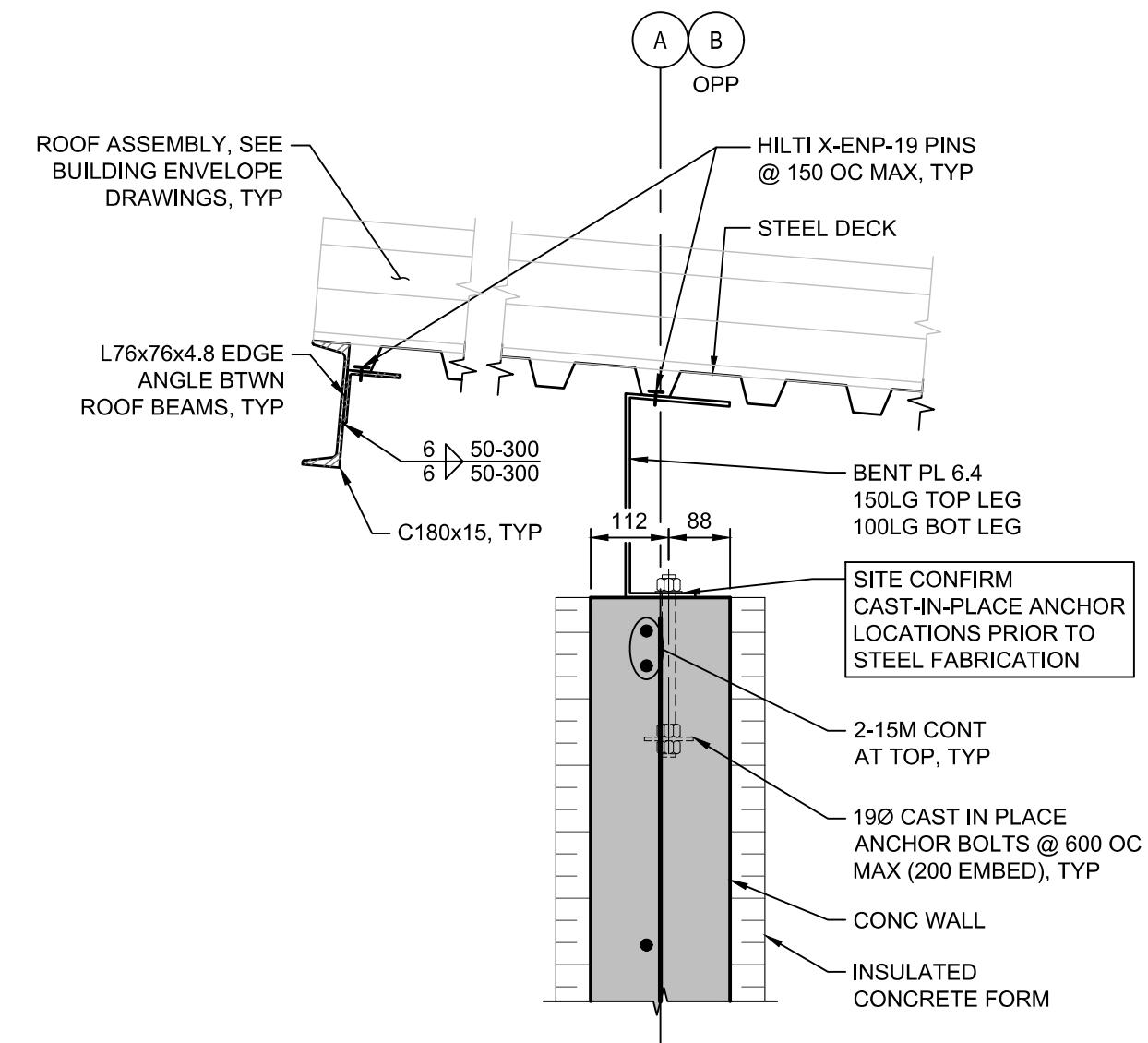
D  
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S-003

S-003  
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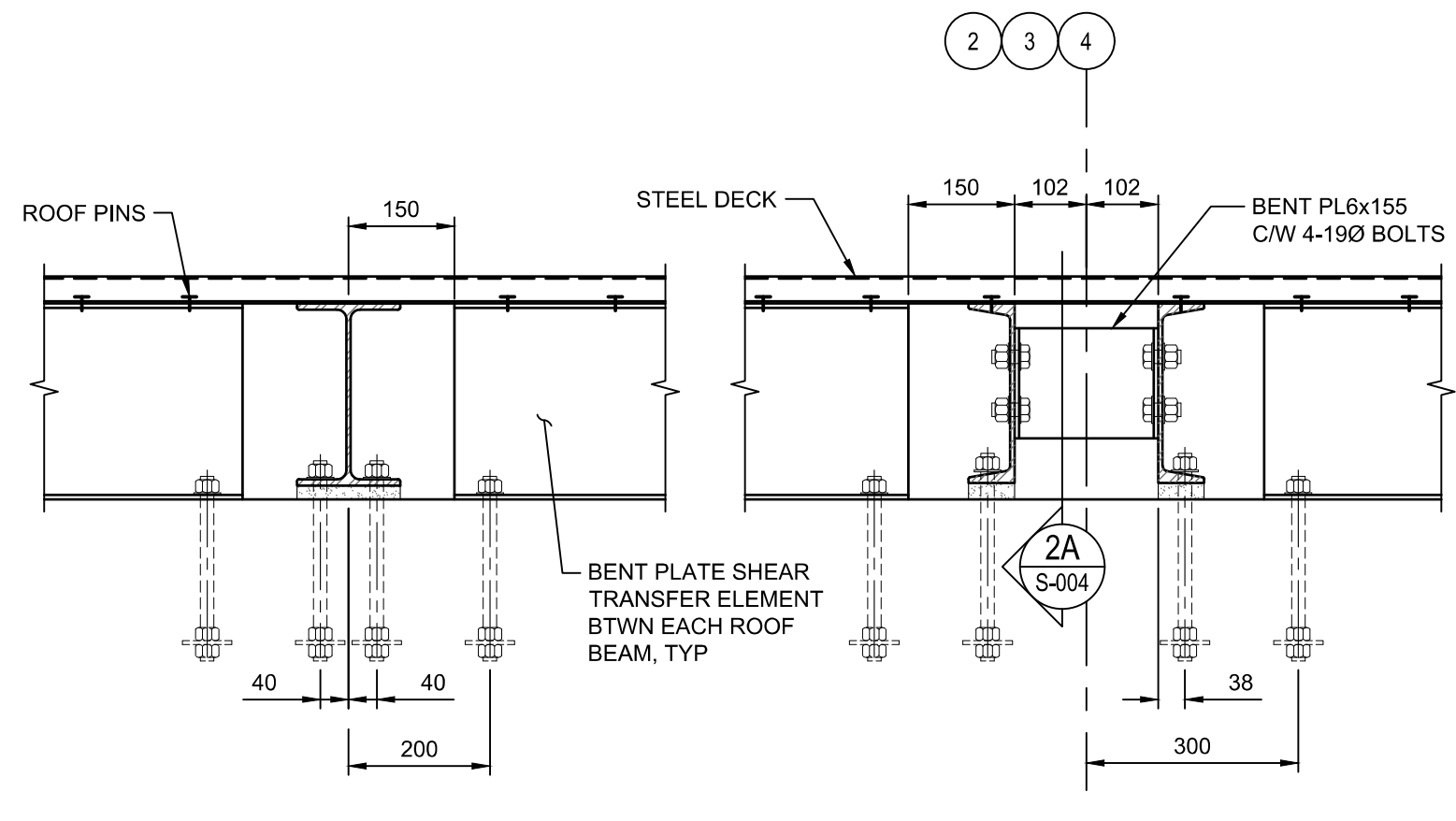
Vendor Information / Sous-traitant



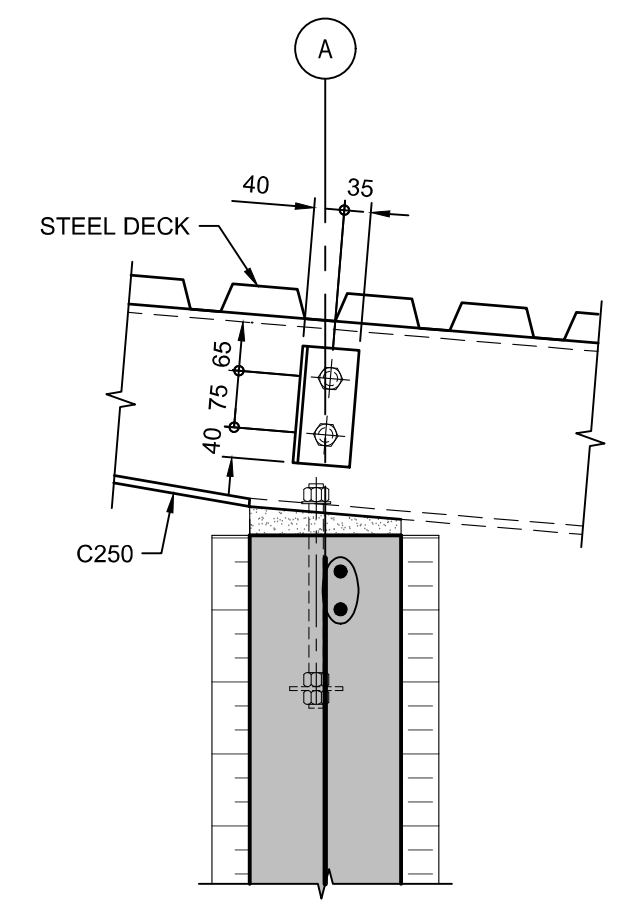
WSP PROJECT NO. 181-10545-00



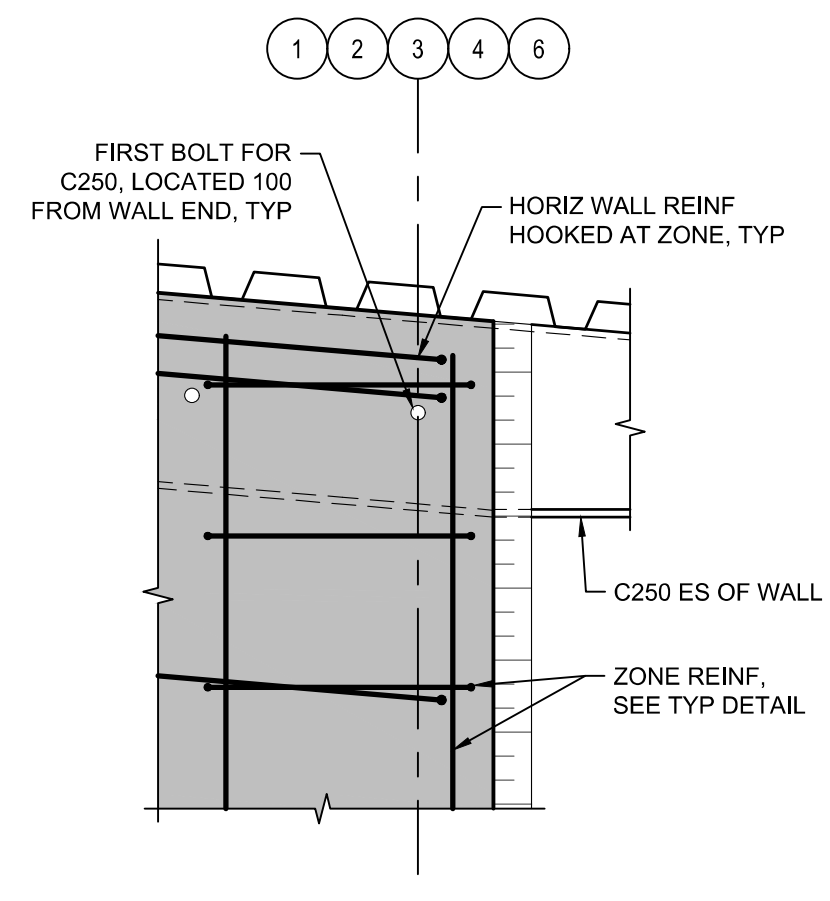
1 ROOF SECTION  
S-002 SCALE: 1:10



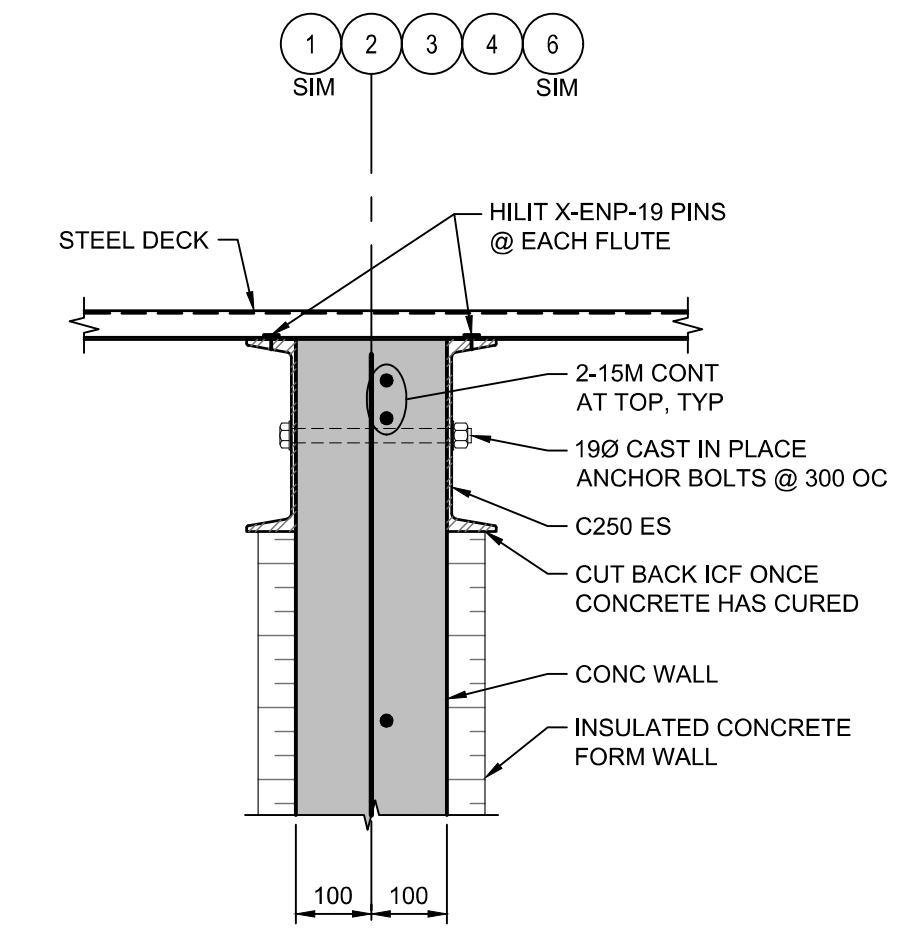
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S-002 SCALE: 1:10



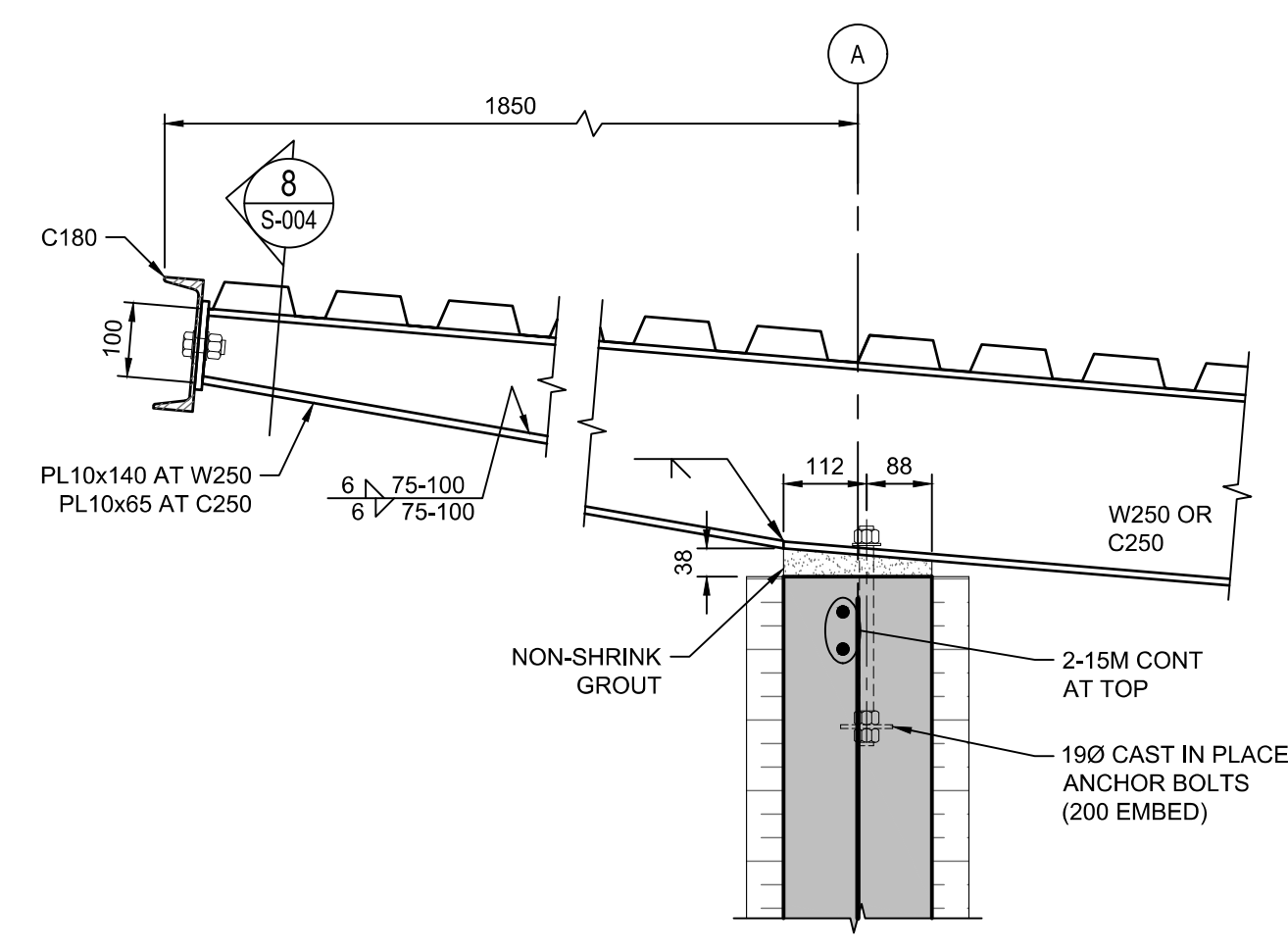
2A ROOF SECTION  
S-004 SCALE: 1:10



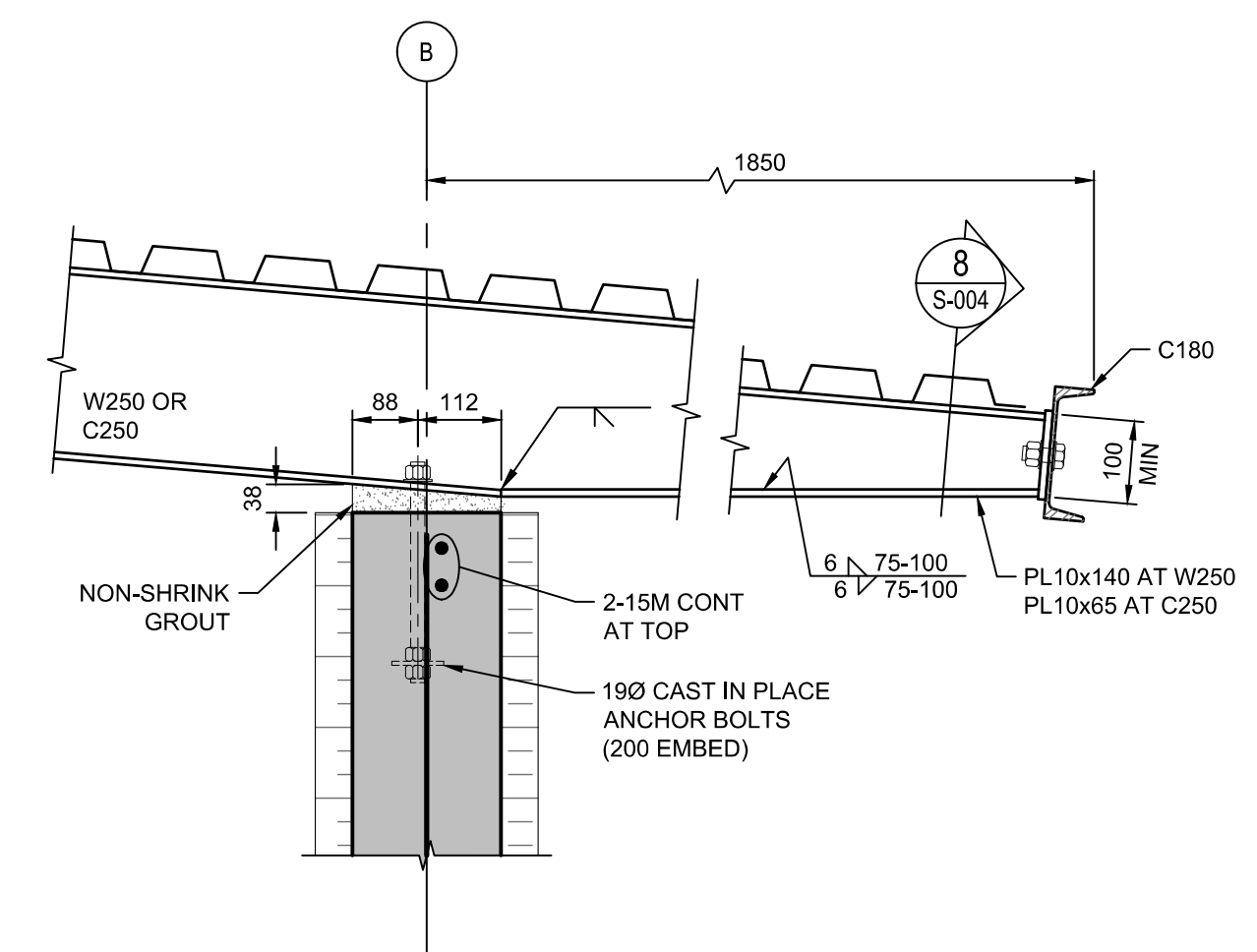
3 ROOF SECTION  
S-002 SCALE: 1:10



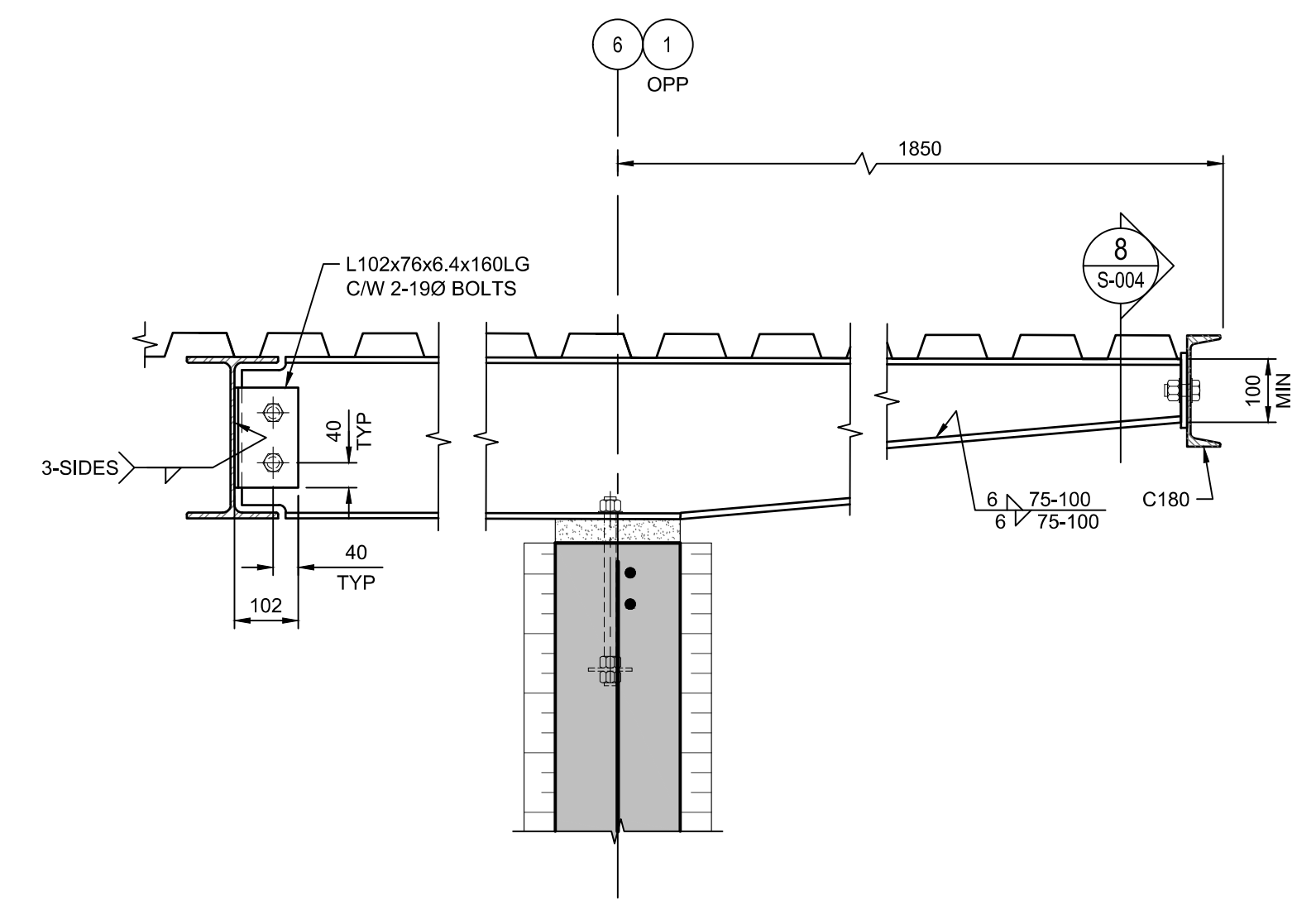
4 ROOF SECTION AT C250  
S-002 SCALE: 1:10



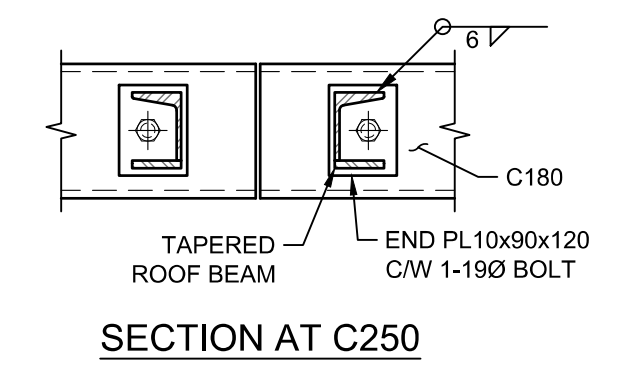
5 ROOF SECTION  
S-002 SCALE: 1:10



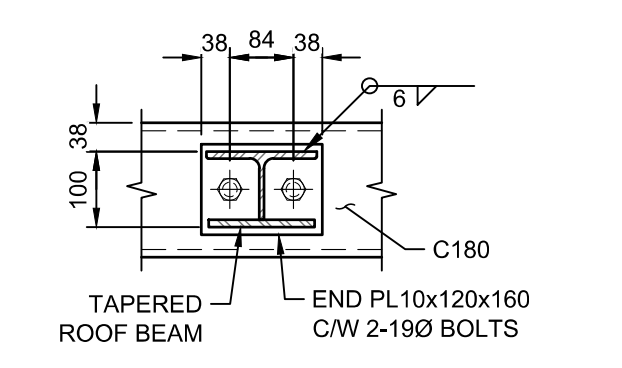
6 ROOF SECTION  
S-002 SCALE: 1:10



7 ROOF SECTION  
S-002 SCALE: 1:10

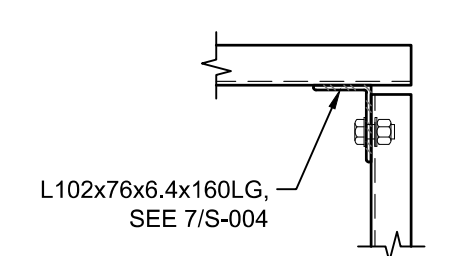


SECTION AT C250

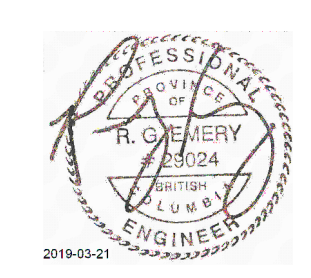


SECTION AT W250

8 SECTION  
S-004 SCALE: 1:10



9 PLAN DETAIL  
S-002 SCALE: 1:10



3	RE-ISSUED FOR TENDER	DJ	2019-03-21
2	ISSUED FOR TENDER	DJ	2018-10-02
1	ISSUED FOR 100% REVIEW	DJ	2018-09-19
0	ISSUED FOR 80% REVIEW	DJ	2018-08-31
rev	description	by	date

Asset - Actif  
**WM104 AMPHITRITE POINT**  
**EQUIPMENT BUILDING**

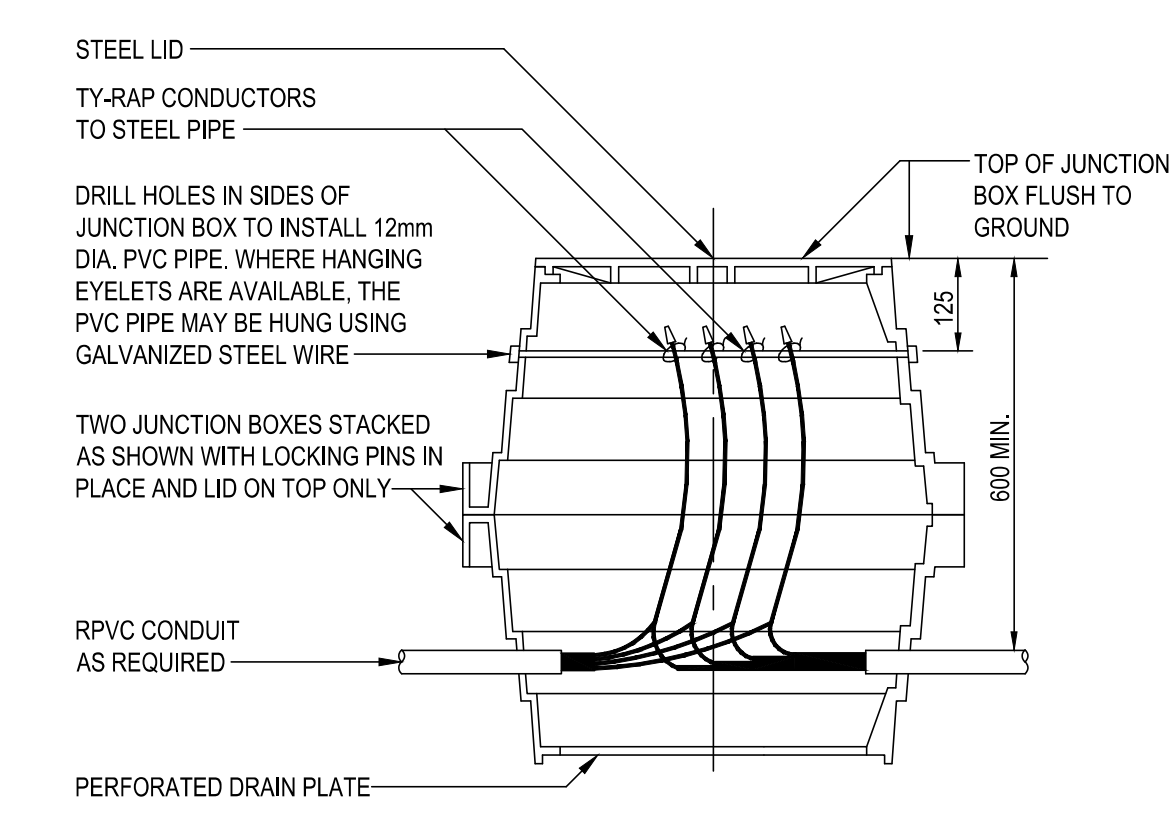
Drawing - Dessin  
**ROOF SECTIONS AND DETAILS**

drawn - dessiné	date
G.MAJOR/R.MAR	2018.08.17
designed - conception	date
D.JANSEN	2018.08.31
checked - vérifié	date
R.EMERY	2018.08.31
approved - approuvé	date
S.CHILDS	2018.08.31
CCG ref. no. - no. ref. GCC	scale - échelle
WM104-1025	AS NOTED
drawing no. - no. dessin	sheet/feuille
S-004	04/04
	rev-rév
	3

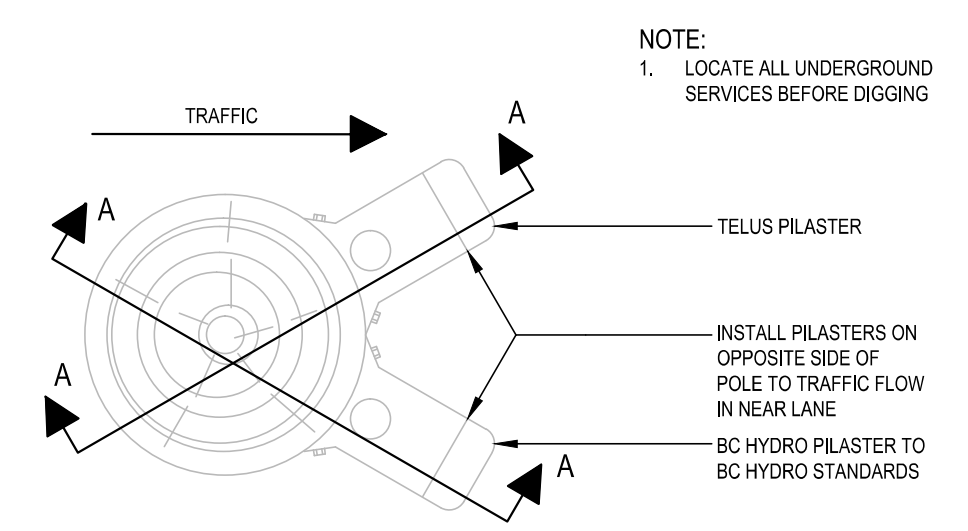


**LUMINAIRE SCHEDULE**

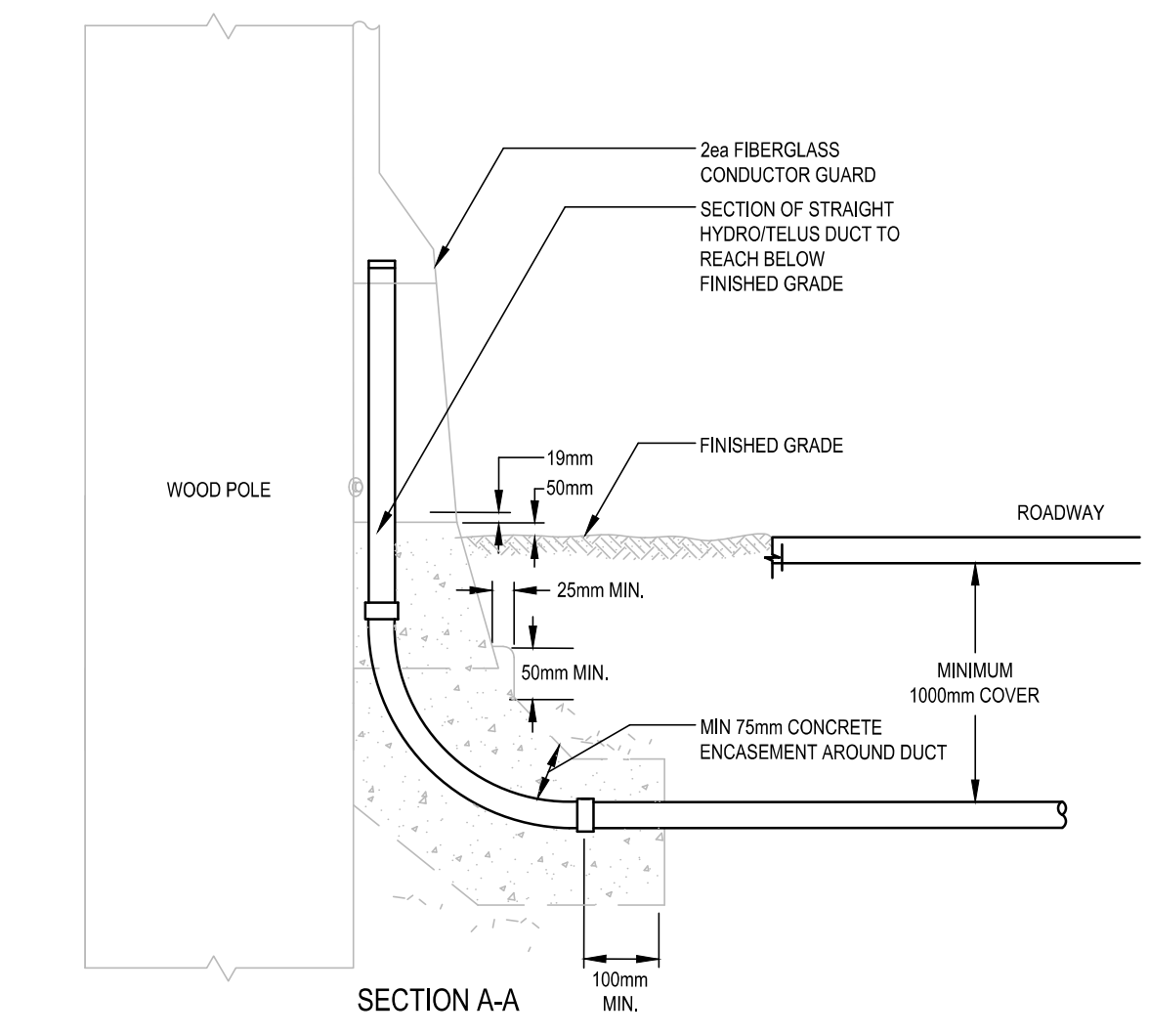
	TYPE LA - DESCRIPTION - IN GROUND, RECESSED MOUNT WHITE LED OMNIDIRECTIONAL INSET LIGHT SUITABLE FOR TAXIWAY EDGE LIGHTING. MAXIMUM PROJECTION HEIGHT OF 10mm ABOVE FINISHED SURFACE. SUITABLE FOR USE IN HARSH, WET ENVIRONMENTS. ANODIZED ALUMINUM CASTINGS WITH STAINLESS STEEL HARDWARE AND FITTINGS. 203mm DIAMETER. LED RATED FOR 100,000 HOURS OR MORE. ELECTRICAL CHARACTERISTICS - 90-250VAC, 7 WATTS, POWER FACTOR 1.0. AMPHENOL S44 PLUG FOR CONNECTION.
	TYPE LB - DESCRIPTION - IN GROUND, RECESSED MOUNT GREEN LED OMNIDIRECTIONAL INSET LIGHT SUITABLE FOR TAXIWAY EDGE LIGHTING. MAXIMUM PROJECTION HEIGHT OF 10mm ABOVE FINISHED SURFACE. SUITABLE FOR USE IN HARSH, WET ENVIRONMENTS. ANODIZED ALUMINUM CASTINGS WITH STAINLESS STEEL HARDWARE AND FITTINGS. 203mm DIAMETER. LED RATED FOR 100,000 HOURS OR MORE. ELECTRICAL CHARACTERISTICS - 90-250VAC, 7 WATTS, POWER FACTOR 1.0. AMPHENOL S44 PLUG FOR CONNECTION.
	TYPE LC - DESCRIPTION - WALL MOUNTED LED FLOODLIGHT, C/W ADJUSTABLE YOKE. SUITABLE FOR WET LOCATIONS AND HARSH ENVIRONMENTS. JUNCTION BOX STYLE MOUNTING FOR CONDUIT ENTRANCE. ALUMINUM HOUSING WITH STAINLESS STEEL HARDWARE AND FITTINGS. 400K LED RATED FOR 50,000 HOURS OR MORE. ELECTRICAL CHARACTERISTICS - 21WATT LED, 100-277VAC, 2300 INITIAL LUMENS
	TYPE LD - DESCRIPTION - SURFACE MOUNT, STEEL CONSTRUCTION STRIP LIGHT, C/W FROSTED ACRYLIC LENS, 8' LONG WHITE, 3000K, 4000L, 22W, 120V, L90 @ 54,000 HOURS.
	TYPE LF - DESCRIPTION - 6" FLUSH MOUNT, CORROSION RESISTANT MARINE GRADE ALUMINUM FIXTURE, INTEGRALLY SEALED LED MODULE, DRIVE HOUSING TO BE FULLY GASKETED. ALL STAINLESS STEEL FITTINGS. TO BE COMPLETE WITH ADJUSTABLE TILT UP TO 30° AND 360° ROTATION. 3500K, 2100L, 18W, WET LOCATION LISTED.
	TYPE LG - DESCRIPTION - SURFACE MOUNT, STEEL CONSTRUCTION STRIP LIGHT, C/W FROSTED ACRYLIC LENS, 4' LONG WHITE, 3000K, 2000L, 12W, 120V, L90 @ 54,000 HOURS.
	TYPE LH - DESCRIPTION - POLE MOUNTED LED FLOODLIGHT, C/W ADJUSTABLE YOKE. SUITABLE FOR WET LOCATIONS AND HARSH ENVIRONMENTS. JUNCTION BOX STYLE MOUNTING FOR CONDUIT ENTRANCE. ALUMINUM HOUSING WITH STAINLESS STEEL HARDWARE AND FITTINGS. 400K LED RATED FOR 50,000 HOURS OR MORE. ELECTRICAL CHARACTERISTICS - 151WATT LED, 100-277VAC, 16,900 INITIAL LUMENS POLE TO BE EPA RATED FOR INSTALLATION LOCATION, TO MEET ASHTO STANDARDS FOR HIGHWAYS. TO BE 3m TALL, STEEL POLE. INCLUDE COST TO SUPPLY AND INSTALL CONCRETE BASE AS PER MANUFACTURER RECOMMENDATION.



**2**  
**E-001** TYPE 10 JUNCTION BOX DETAIL  
NOT TO SCALE



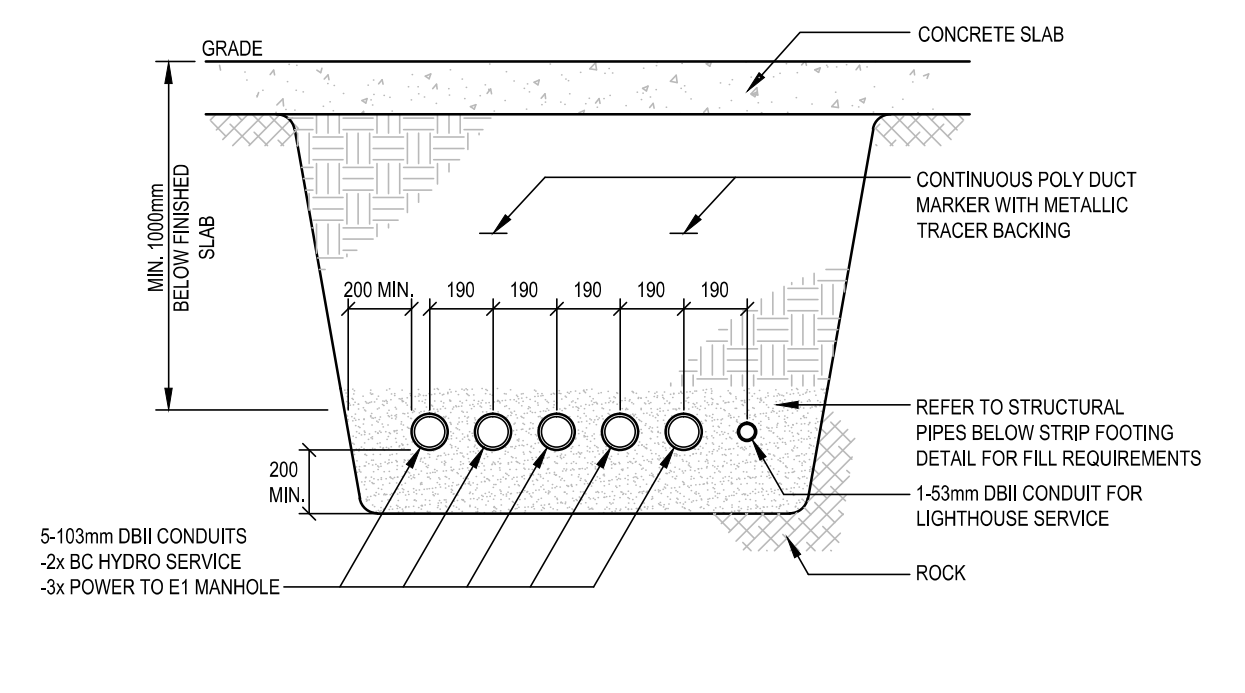
PLAN VIEW



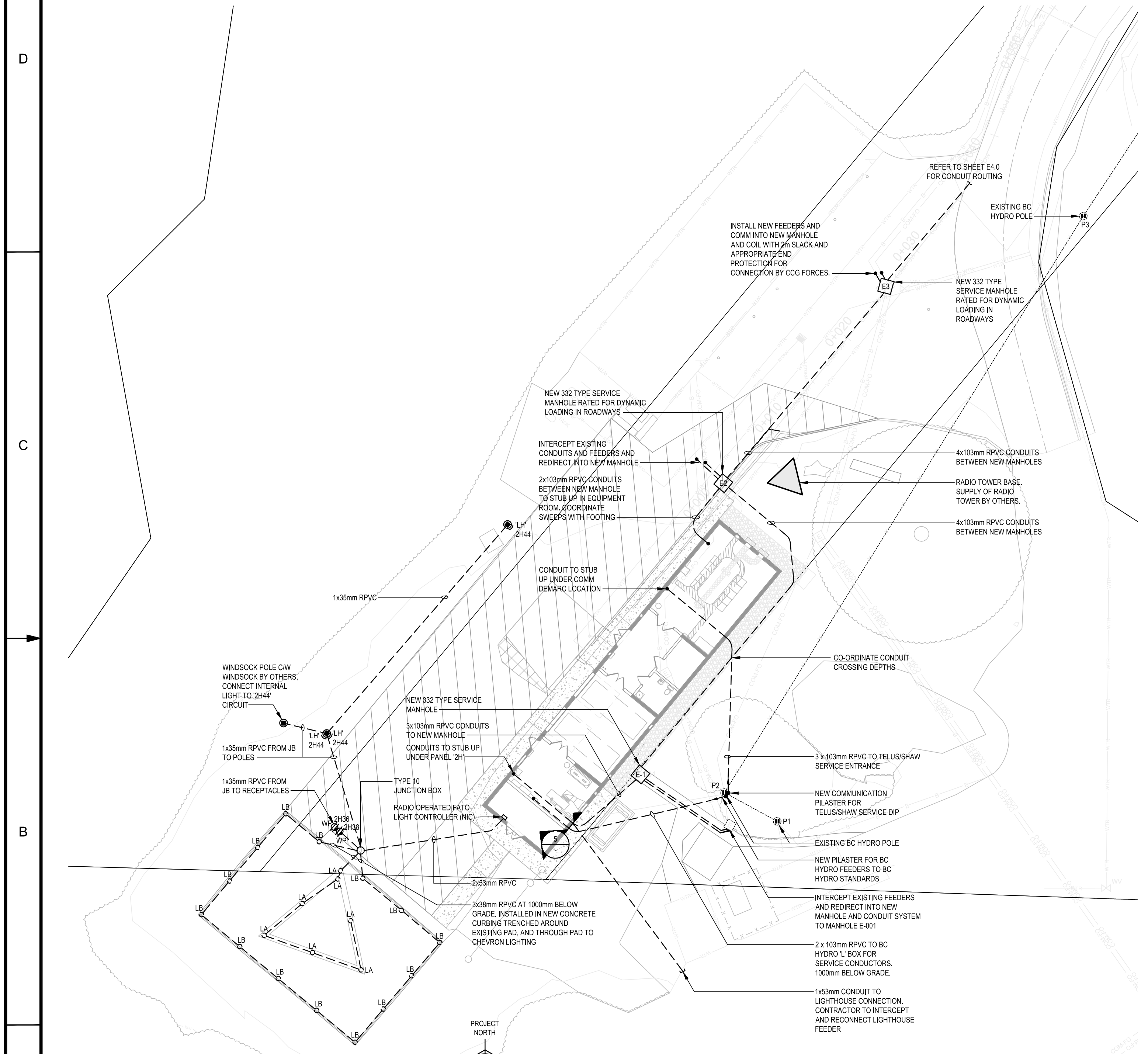
**4**  
**E-001** BC HYDRO PILASTER DETAIL  
NOT TO SCALE

TYPE OF PIPE OR DUCT	DIRECT BURIED MINIMUM CLEARANCES		BC HYDRO CONCRETE ENCASED MINIMUM CLEARANCES	
	A	B	A	B
TELEPHONE, CABLEVISION OR STREET LIGHTS	300	150	75	150
GAS MAINS	300	150	300	150
WATER, OIL PIPELINES, OIL JET FUEL LINES, STORM AND SANITARY SEWERS	900	300	300	300

**3**  
**E-001** TRENCH CLEARANCE DETAIL  
NOT TO SCALE



**5**  
**E-001** BUILDING POWER ENTRY TRENCH  
NOT TO SCALE



**1**  
**E-001** SITE ELECTRICAL LAYOUT  
1:250


- GENERAL NOTES:**
- ALL CONDUITS ARE TO BE COORDINATED WITH STRUCTURAL FOOTINGS. ALL CONDUITS ARE TO BE INSTALLED AT 1000mm BELOW SLAB FOR ALL CROSSINGS BELOW NEW BUILDING AND WHEN CROSSING BELOW FOOTINGS.
  - BC HYDRO CONDUITS ARE TO BE AT 1000mm BELOW GRADE AT ALL LOCATIONS AS PER BC HYDRO REQUIREMENTS.
  - ALL OTHER CONDUITS CAN BE AT 450mm BELOW GRADE FOR NON-VEHICULAR AREAS AND 750mm IN VEHICULAR AREAS UNLESS OTHERWISE NOTED.
  - ALL MANHOLES ARE TO BE INSTALLED A MINIMUM OF 1200mm FROM EDGE OF BUILDING TO AVOID CONFLICT WITH NEW FOOTINGS. COORDINATE MANHOLE TRENCHING AND EXCAVATING WITH FOOTING INSTALLATION TO PREVENT UNDERMINING OF NEW WORKS.
- ELECTRICAL ORDER OF CONSTRUCTION:**
- CONTRACTOR TO COORDINATE WITH BC HYDRO, SHAW AND TELLUS TO ENSURE TRANSFER OF EXISTING SERVICES IS PERFORMED WITH MINIMAL DOWNTIME TO NEW STRUCTURE.
  - CONTRACTOR TO INSTALL NEW MANHOLES E-001, E-002 AND E-003 AND CONDUITS AND CONDUCTORS TO ALLOW FOR BYPASS OF EXISTING DUCTS RUNNING BELOW NEW BUILDING FOOTPRINT
  - DEMOLITION OF EXISTING SERVICES UNDER NEW BUILDING FOOTPRINT, CIVIL WORKS TO BEGIN.
  - COORDINATE WITH CCG FORCES TO SPLICE AND RECONNECT POWER AND DATA SERVICES FOR EMERGENCY SERVICES AND REMOTE TRANSMITTER BUILDING. TO BE COORDINATED TO ENSURE MINIMUM DOWN TIMES FOR THESE SERVICES
  - INSTALL NEW SERVICE PILASTERS, AND CONDUITS UNDER NEW BUILDING FOUNDATION FOOTINGS FOR BCH, SHAW, TELLUS, AND SITE POWER AND DATA. COORDINATE ALL UNDER SLAB WORK WITH CIVIL CONTRACTOR TO ENSURE NO UNDERCUTTING OF SLAB FOOTINGS OCCURS.
  - INSTALL DUCT BANK AND PULL BOXES UP ROADWAY TO REMOTE TRANSMITTER SITE. PERFORM WORK IN MANHOLES TO PREPARE FOR FINAL TRANSFER OF BUILDING TO NEW DUCT BANK BY CCG FORCES. INSTALL POWER AND COMMUNICATIONS CABLES AS INDICATED.
  - COORDINATE GROUND GRD, GROUND ROD, AND GROUND PLATE INSTALLATIONS WITH CIVIL WORKS AROUND FOUNDATION.
  - ELECTRICAL INSTALLATION AND BUILDING FIT OUT. INSTALL ALL INTERNAL GROUNDING OF ALL EQUIPMENT AND DEVICES TO MOTOROLA R56 STANDARDS.
  - ELECTRICAL AND DATA CONNECTION FOR BC HYDRO, SHAW AND TELLUS TO APPROPRIATE BREAKERS AND DEMARCATION POINTS TO BRING NEW BUILDING ONLINE.

4	REISSUED FOR - TENDER	JB	2019-02-27
3	ISSUED FOR - TENDER	JB	2018-10-02
2	ISSUED FOR - 100% REVIEW	JB	2018-09-19
1	ISSUED FOR - 80% REVIEW	JB	2018-08-31
rev	description	by	date

Asset - Actif	
WM104 AMPHITRITE POINT	
EQUIPMENT BUILDING	
Drawing - Dessin	
SITE ELECTRICAL LAYOUT, LEGEND AND DETAILS	
drawn - dessin	date
GL	2018.08.22
designed - conception	date
JB	2018.08.22
checked - vérifié	date
RTD	2018.08.22
approved - approuvé	date
APPROVED	YYYY.MM.DD
CCG ref. no. - no. réf. GCC	scale - échelle
	AS NOTED
drawing no. - no. dessin	sheet/feuille
E-001	1 OF 4

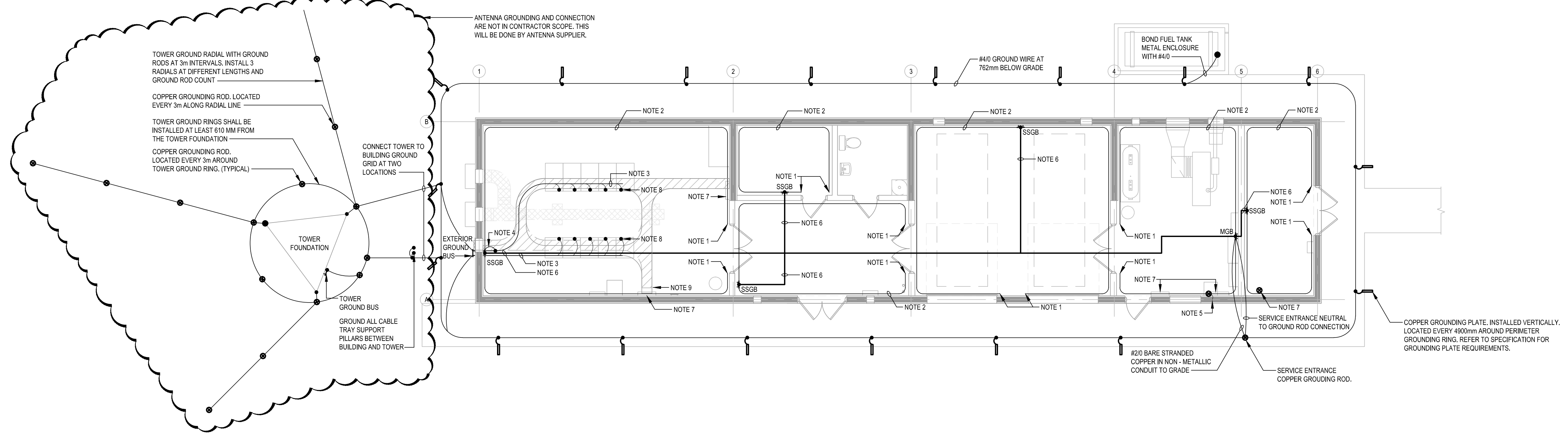


Vendor Information / Sous-traitant



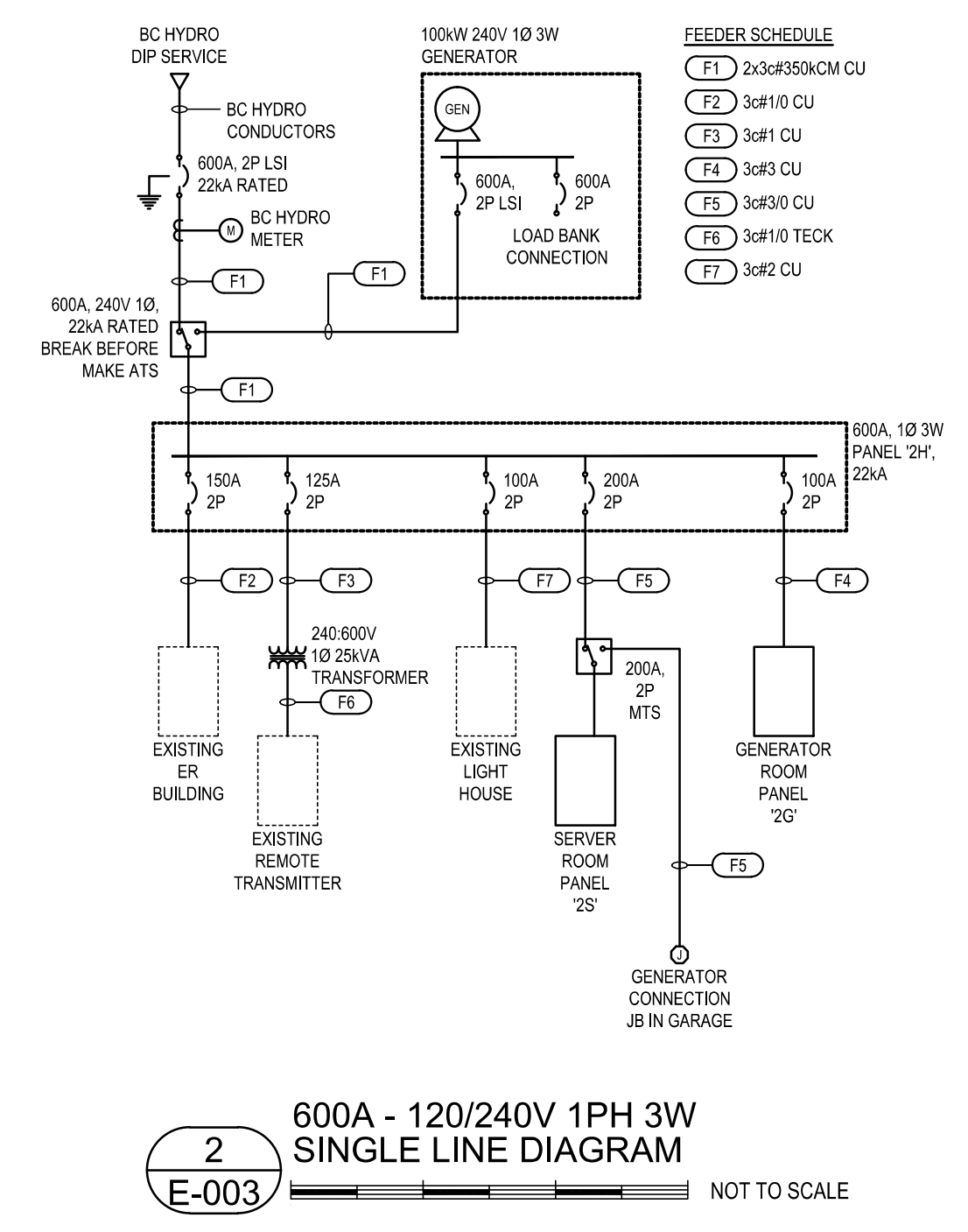
1-18-241  
**AES**  
 Designing A Better Tomorrow  
 CALGARY | EDMONTON  
 VANCOUVER | VICTORIA

PROFESSIONAL ENGINEER  
 I. A. BARNES  
 # 33970  
 2019-02-26

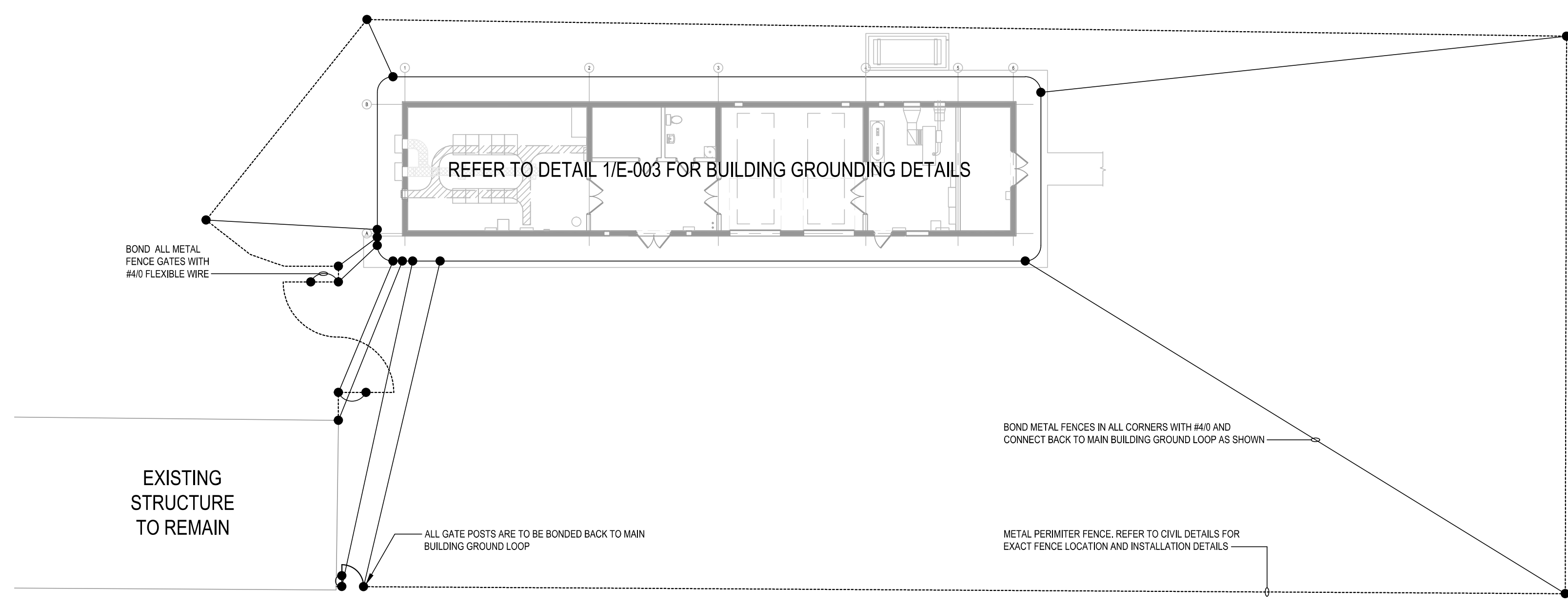


**1**  
**E-003** BUILDING GROUNDING SYSTEM  
 1:100

- GENERAL NOTES:**
- BOND ALL CONDUCTIVE MECHANICAL PIPING TO AND DUCT TO GROUND LOOP. EACH PIPE OR DUCT TO BE GROUNDED AT ONLY ONE LOCATION ALONG ITS LENGTH.
  - ALL DOORS TO BE BONDED USING #2 EXTRA FLEX WIRE FROM THE TOP OF THE DOOR FRAME TO THE DOOR ITSELF.
  - INTERIOR PERIMETER GROUNDING RING (#4/0) TO BE LOCATED 305mm FROM CEILING, WHERE PRACTICABLE.
  - INTERIOR PERIMETER GROUND BUS (IPGB):
    - A) LOCATE IPGB ABOUT 2.4M (8FT) ABOVE THE FLOOR OR WITHIN 305MM (12") BELOW THE CEILING AND TERMINATE TO THE MGB OR SSSB.
    - B) USE INSULATED STANDOFFS.
    - C) SEPARATION DISTANCE BETWEEN INSULATED STANDOFFS IS APPROXIMATELY 610 MM (2 FT.) OR NECESSARY INTERVAL TO SECURE CONDUCTOR WITHOUT NOTICEABLE SAG OR BEND.
  - ALL INTERIOR METAL ENCLOSURES, DEVICES, CONDUITS, JUNCTION BOXES, EQUIPMENT PANELS, RACKS AND OTHER METALLIC COMPONENT ARE TO BE GROUNDED TO THE IPGB AS PER MOTOROLA R55 STANDARD REQUIREMENTS.
  - WHEN BONDING CONDUITS, TRAYS, OR LONG METALLIC DEVICES CARE IS TO BE TAKEN TO AVOID CREATING LOOPS IN THE GROUND SYSTEM. EACH OBJECT SHOULD ONLY BE CONNECTED TO THE GROUND GRID IN ONE LOCATION.
- NOTES:**
- 100mm MINIMUM SEPARATION BETWEEN GROUND WIRES ON OPPOSITE SIDES OF EACH ROOM #4/0 GROUND RING.
  - #2 GREEN INSULATED STRANDED COPPER INTERIOR PERIMETER GROUND BUS (IPGB).
  - #2 GREEN INSULATED STRANDED COPPER EQUIPMENT AND RACK GROUND WIRE.
  - #2 GREEN INSULATED STRANDED COPPER CABLE TRAY GROUND. ALL CABLE TRAY TO BE CONNECTED WITH JUMPERS ACROSS EACH SECTION.
  - ENSURE STRUCTURAL STEEL IS BONDED TO GROUND LOOP AT ONE POINT IN THE BUILDING.
  - DEDICATED 20 BARE STRANDED COPPER TO FROM EACH SSSB TO MGB IN GENERATOR ROOM.
  - SPD (TYPE 2 MOV) INSTALLED AS PER MANUFACTURER INSTRUCTIONS.
  - CONNECT EACH GROUND STRIP IN SERVER RACK AND RACK ITSELF TO GROUND BUS.
  - SPLIT SEPARATE CABLE TRAY WITH NON-CONDUCTIVE MATERIAL.



**2**  
**E-003** 600A - 120/240V 1PH 3W SINGLE LINE DIAGRAM  
 NOT TO SCALE



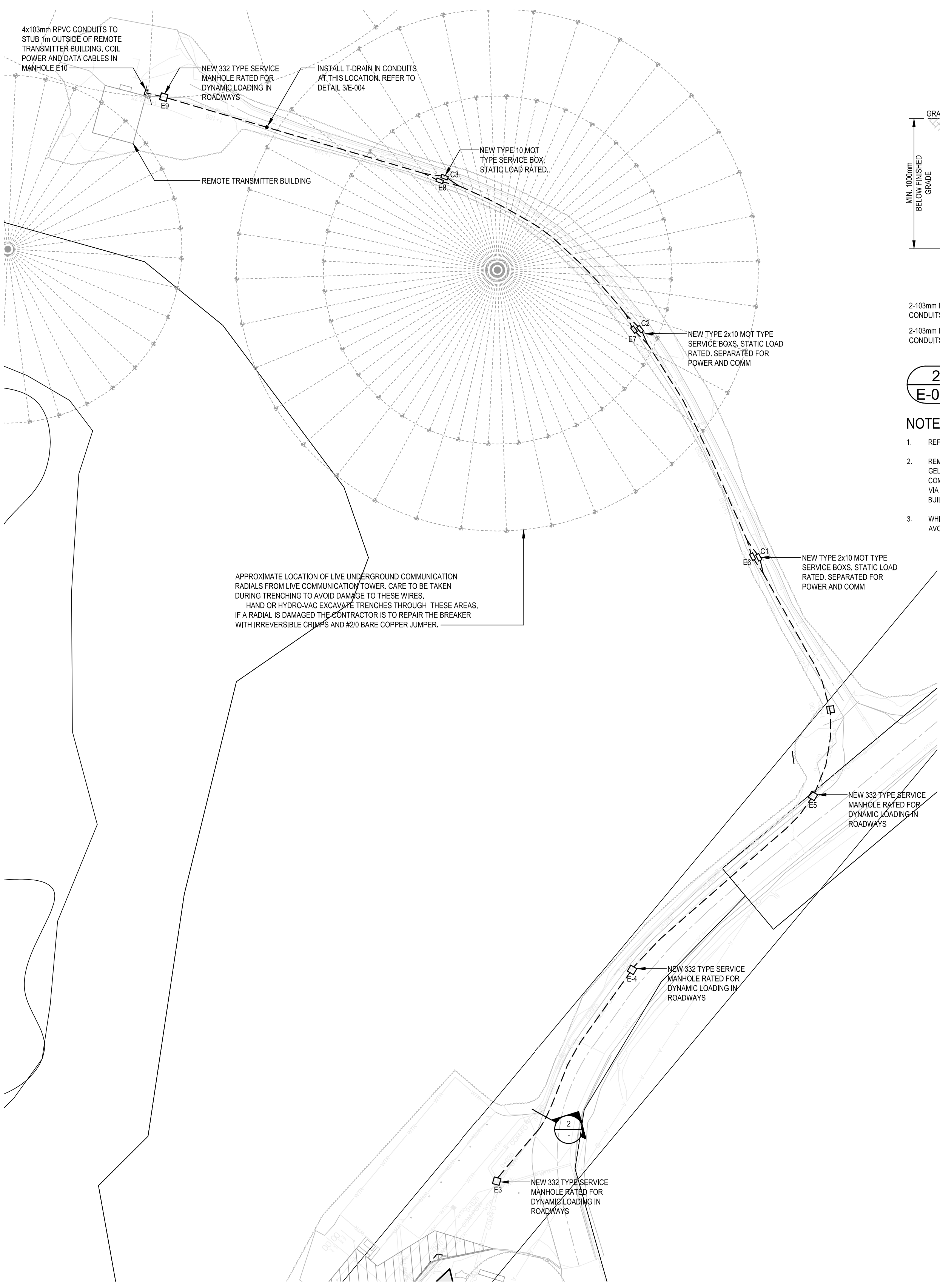
**1**  
**E-003** BUILDING FENCE GROUNDING  
 1:200

4	REISSUED FOR - TENDER	JB	2019-02-27
3	ISSUED FOR - TENDER	JB	2018-10-02
2	ISSUED FOR - 100% REVIEW	JB	2018-09-19
1	ISSUED FOR - 80% REVIEW	JB	2018-08-31
rev	description	by	date

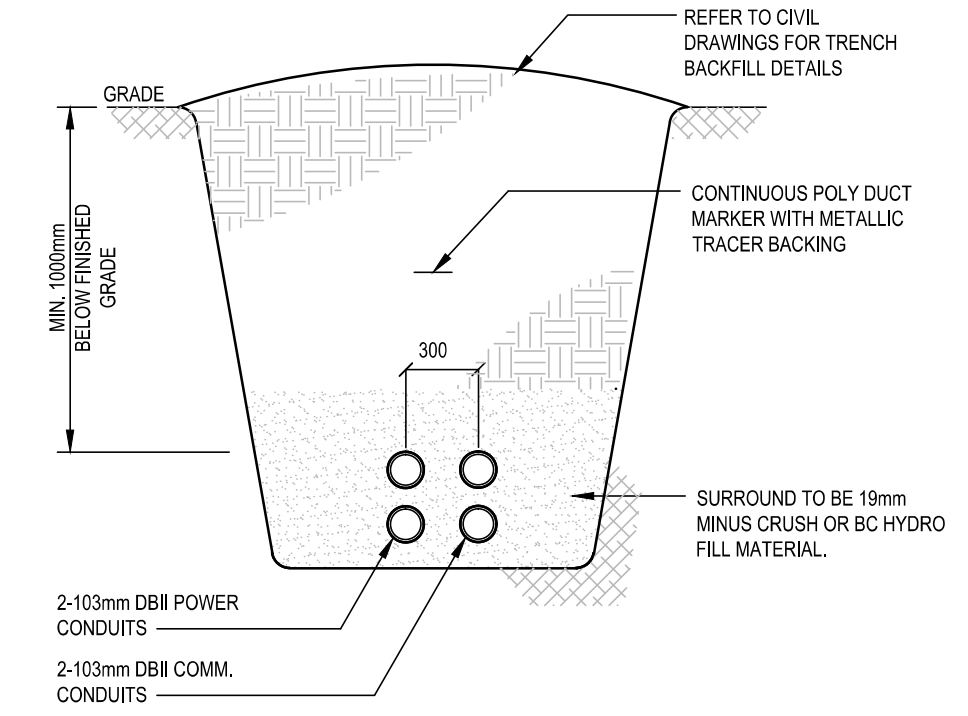
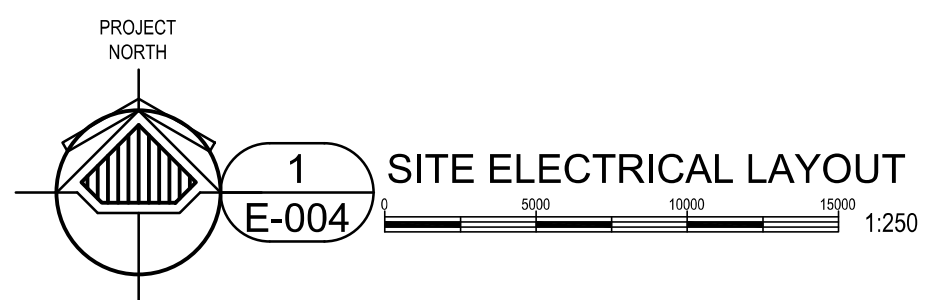
Asset - Actif  
**WM104 AMPHITRITE POINT**  
**EQUIPMENT BUILDING**

drawn - dessiné	date
GL	2018.08.22
designed - conception	date
JB	2018.08.22
checked - vérifié	date
RTD	2018.08.22
approved - approuvé	date
APPROVED	YYYY.MM.DD
CCG ref. no. - no. réf. GCC	scale - échelle
	AS NOTED
drawing no. - no. dessin	sheet-feuille
E-003	3 OF 4

Vendor Information / Sous-traitant

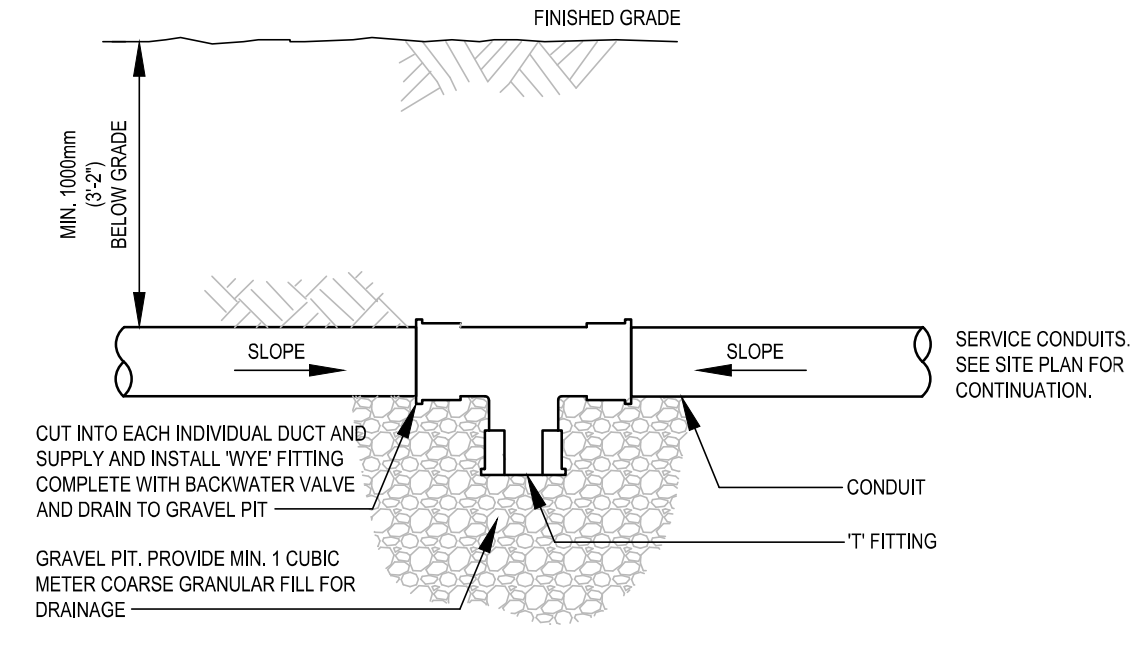


APPROXIMATE LOCATION OF LIVE UNDERGROUND COMMUNICATION RADIALS FROM LIVE COMMUNICATION TOWER. CARE TO BE TAKEN DURING TRENCHING TO AVOID DAMAGE TO THESE WIRES. HAND OR HYDRAVIC EXCAVATE TRENCHES THROUGH THESE AREAS. IF A RADIAL IS DAMAGED THE CONTRACTOR IS TO REPAIR THE BREAKER WITH IRREVERSIBLE CRIMPS AND #20 BARE COPPER JUMPER.

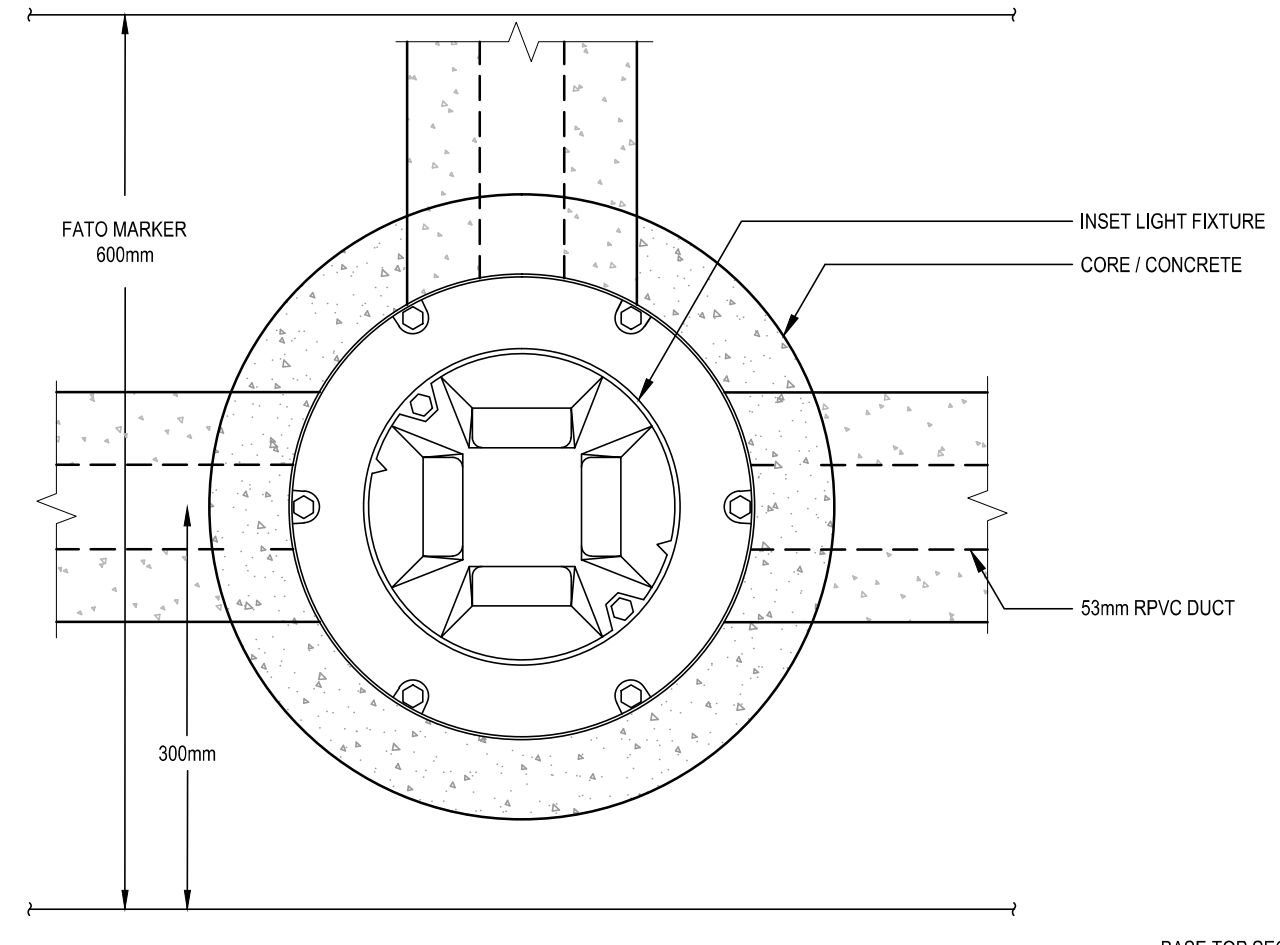


2 REMOTE TRANSMITTER TYPICAL TRENCH DETAIL E-004 NOT TO SCALE

- NOTES:
- REFER TO SINGLE LINE DIAGRAM FOR REMOTE TRANSMITTER RECONNECTION WIRING.
  - REMOTE TRANSMITTER COMMUNICATIONS WIRING TO BE 1/2" AIR OUTDOOR RATED GEL FILLED CATV AND 1/4" STRAND 50/155um MULTIMODE FIBER. WIRE FROM NEW COMMUNICATIONS DEMARC LOCATION IN NEW BUILDING EQUIPMENT ROOM AND PULL VIA NEW DUCT BANK AND MANHOLE NETWORK TO EXISTING REMOTE TRANSMITTER BUILDING AND RECONNECT.
  - WHILE TRENCHING TO REMOTE TRANSMITTER BUILDING CARE SHOULD BE TAKEN TO AVOID EXISTING UNDERGROUND INFRASTRUCTURE LOCATED ON ROAD SHOULDERS.



3 CONDUIT DRAINAGE DETAIL E-004 NOT TO SCALE



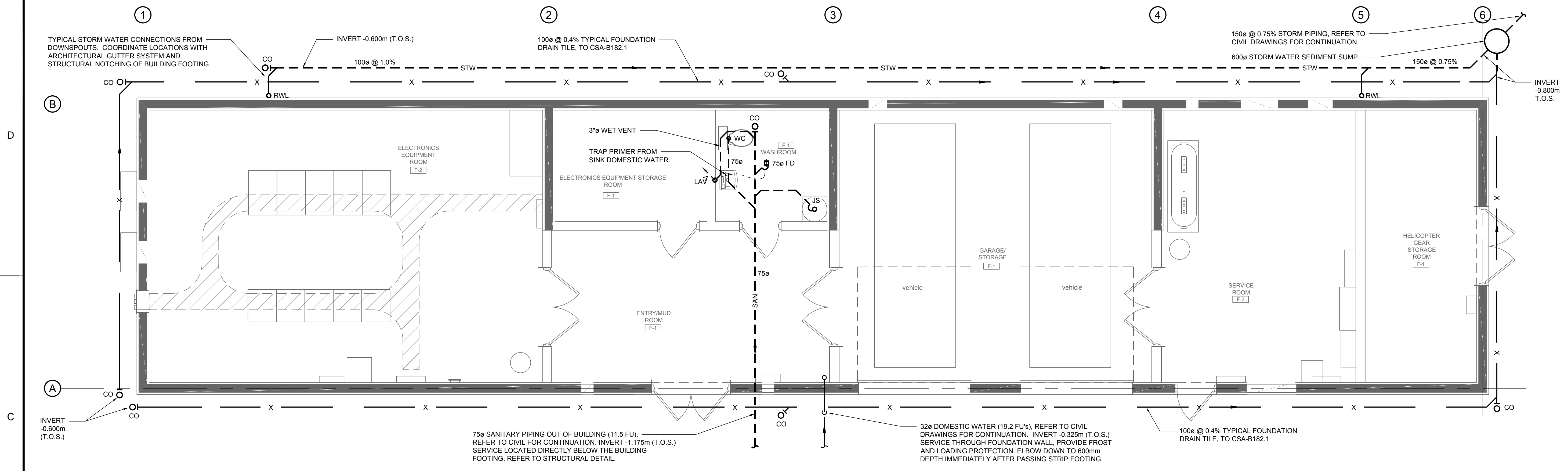
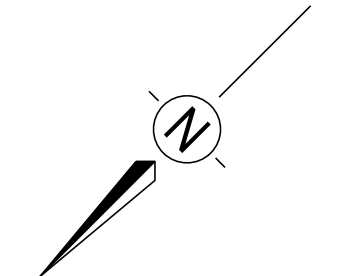
4 TYPE 'LA' AND 'LB' DETAIL E-004 NOT TO SCALE

- GENERAL NOTES:
- PRIOR TO ASSEMBLING INSET LIGHT BASE TOP AND BOTTOM SECTIONS, APPLIED RTV 106 SEALANT TO ALL COMPONENT INTERFACES.
  - ANTI-SEIZE COMPOUND USED ON ALL INSET LIGHT HOLD DOWN BOLTS AND ALL BOLTS USED TO FASTEN CANS TOGETHER. (NOTE DOES NOT APPLY TO ANY BOLTS THAT WERE NOT TO HAVE LUBRICANT PER MANUFACTURER'S INSTRUCTIONS.)
  - DUCT INSTALLED TO ALLOW POSITIVE DRAINAGE FROM BASE CAN TO CONNECTING PULLIT.
  - ALL DIMENSIONS TO BE COORDINATED WITH ACTUAL PRODUCT INFORMATION.

4	REISSUED FOR - TENDER	JB	2019-02-27
3	ISSUED FOR - TENDER	JB	2018-10-02
2	ISSUED FOR - 100% REVIEW	JB	2018-09-19
1	ISSUED FOR - 80% REVIEW	JB	2018-08-31
rev	description	by	date

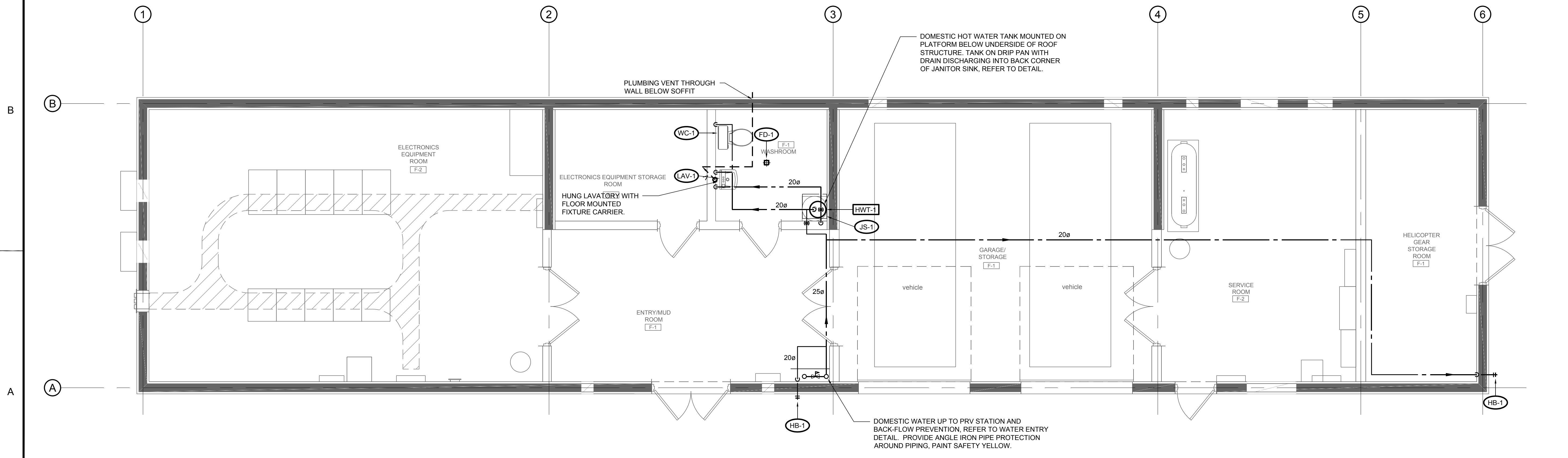
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WM104 AMPHITRITE POINT			
EQUIPMENT BUILDING			
Drawing - Dessin			
REMOTE TRANSMITTER			
CABLE TRENCH AND			
MANHOLE LOCATIONS			
drawn - dessiné		date	
GL		2018.08.22	
designed - conception		date	
JB		2018.08.22	
checked - vérifié		date	
RTD		2018.08.22	
approved - approuvé		date	
APPROVED		YYYY.MM.DD	
CCG ref. no. - no. réf. GCC		scale - échelle	
		AS NOTED	
drawing no. - no. dessin		sheet-feuille	rev-rév
E-004		4 OF 4	4





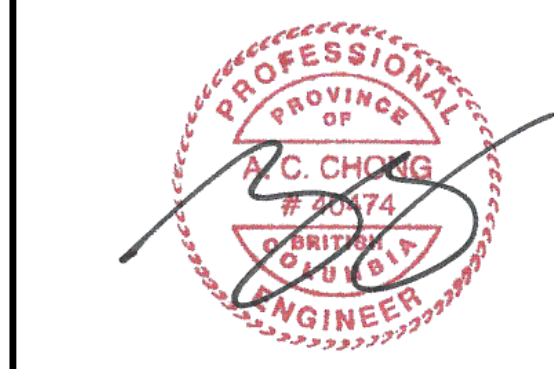
**FOUNDATION PLAN**

SCALE: 1:50



**LEVEL 1 PLUMBING**

SCALE: 1:50

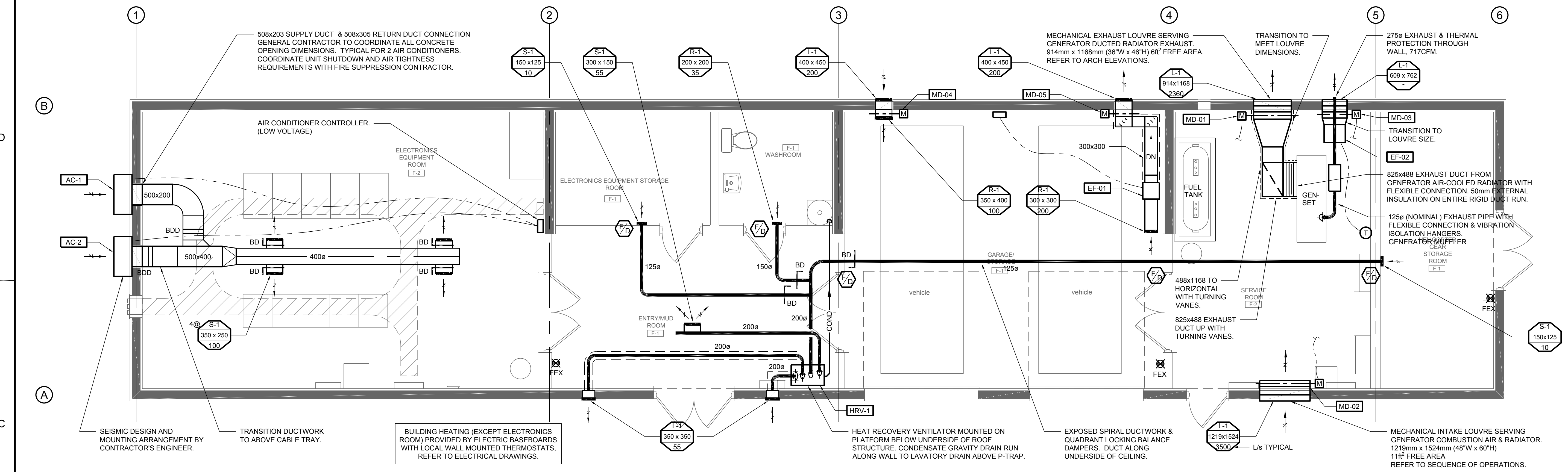
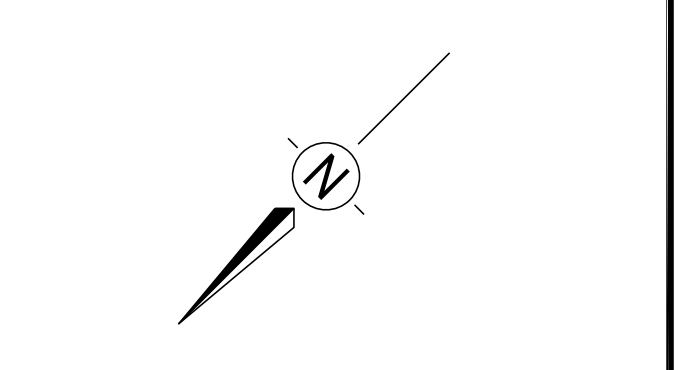


rev	description	by	date
7	RE-ISSUED FOR TENDER	HD	2019-03-22
6	RE-ISSUED FOR TENDER	BM	2019-02-27
5	ISSUED FOR TENDER	BM	2018-10-02
4	RE-ISSUED FOR 100% REVIEW	BM	2018-09-24
3	ISSUED FOR 100% REVIEW	BM	2018-09-19
2	ISSUED FOR 80% REVIEW	BM	2018-08-31
1	COORDINATION	BM	2018-08-22

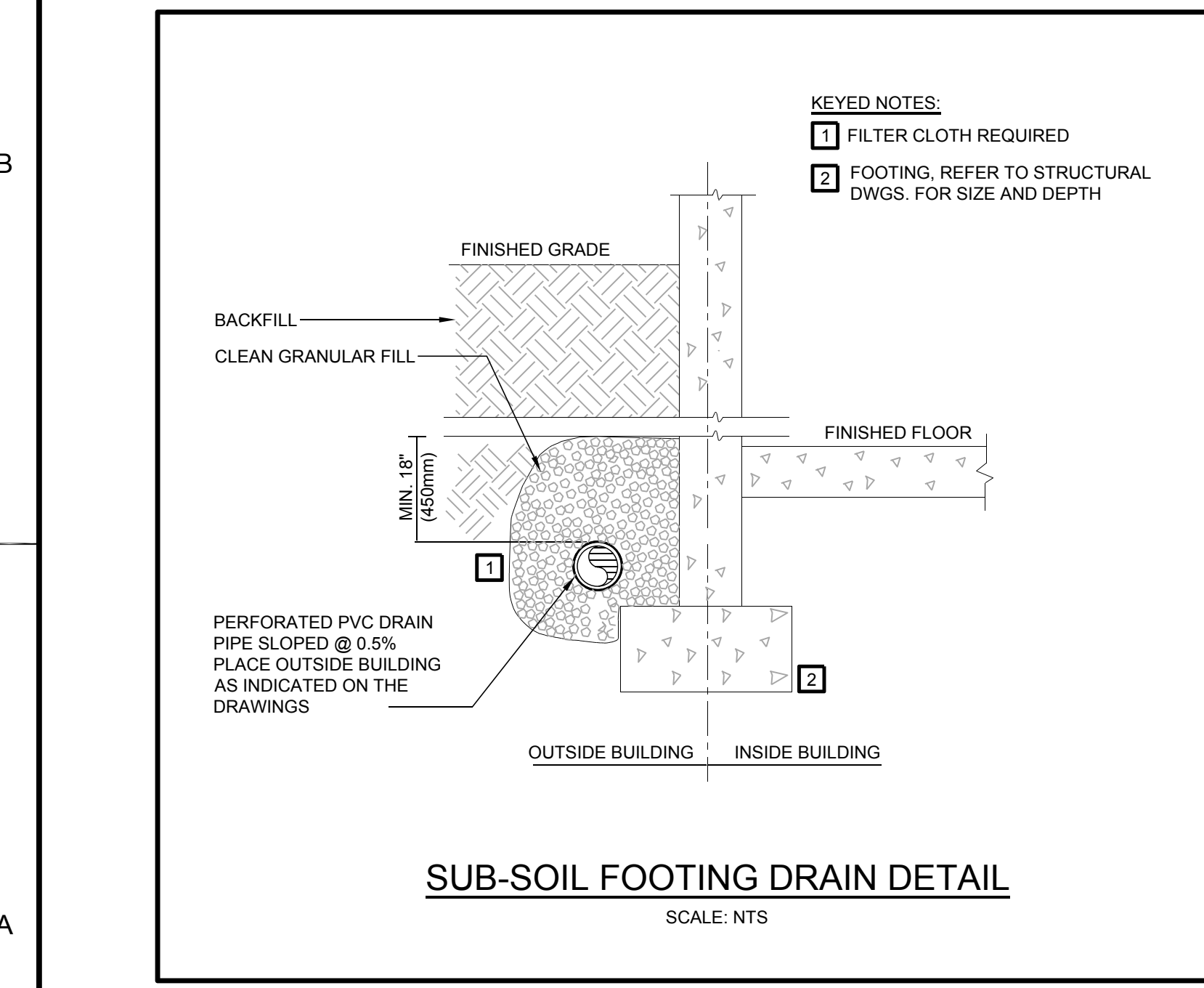
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**WM104 AMPHITRITE POINT EQUIPMENT BUILDING**

Drawing - Dessin  
**FOUNDATION PLAN & PLUMBING PLAN**

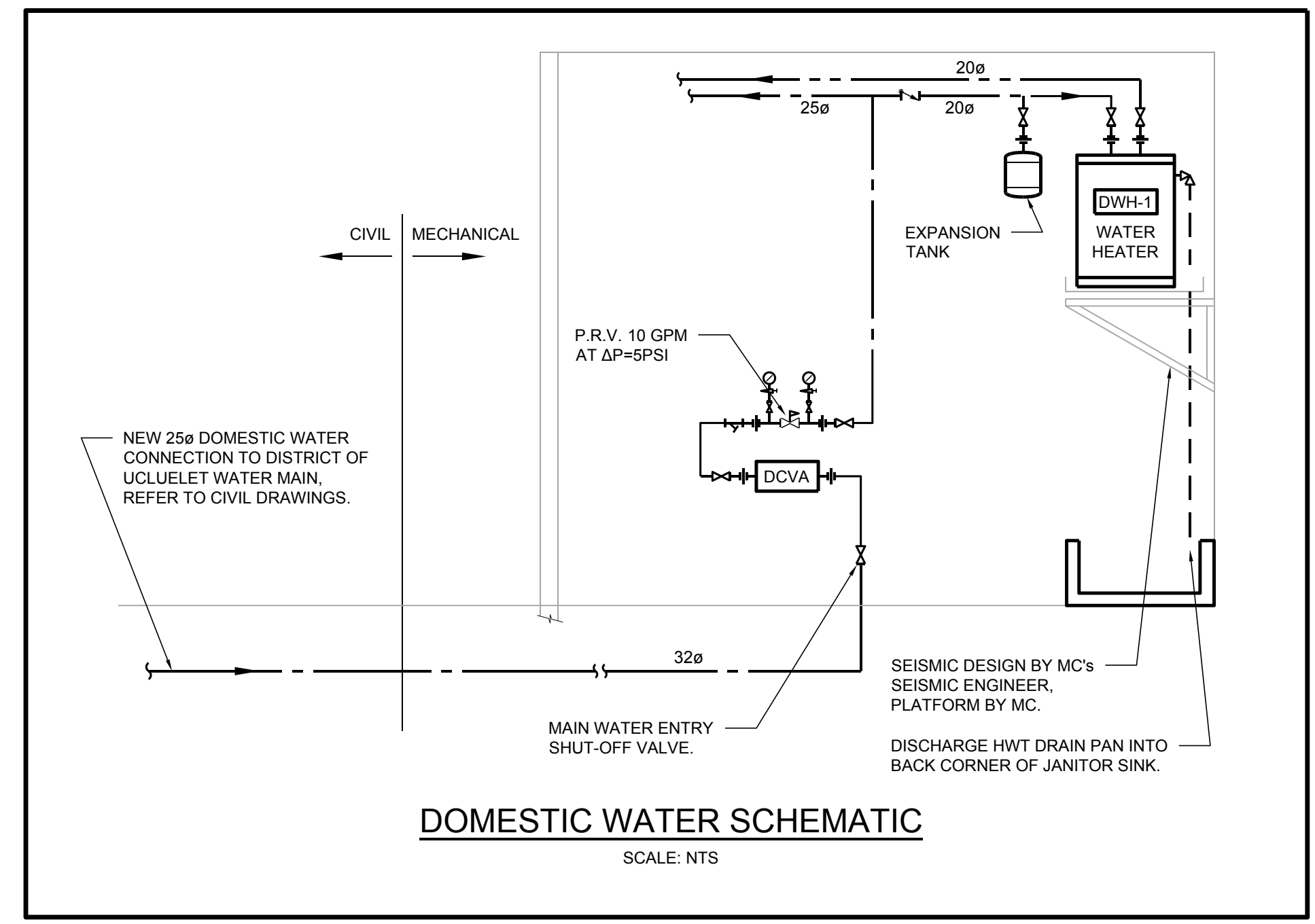
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designed - conception	date	
B.McINTYRE	2018-10-02	
checked - vérifié	date	
A.CHONG	2018-10-02	
approved - approuvé	date	
A.CHONG	2018-10-02	
CCG ref. no. - no. réf. GCC	scale - échelle	
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drawing no. - no. dessin	sheet-feuille	rev-rév
M-001	02/03	7



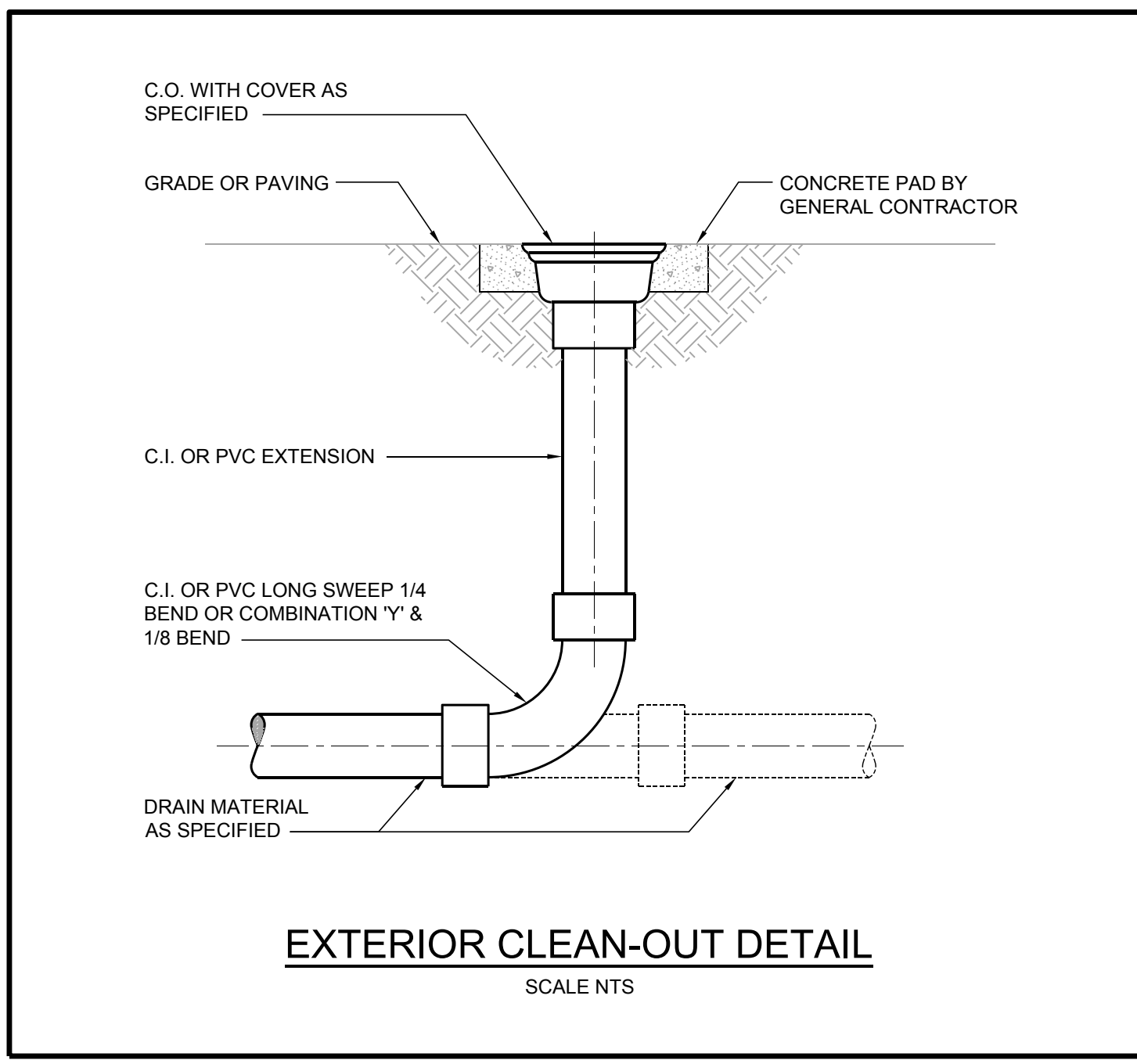
**LEVEL 1 MECHANICAL PLAN**  
 SCALE: 1:50



**SUB-SOIL FOOTING DRAIN DETAIL**  
 SCALE: NTS



**DOMESTIC WATER SCHEMATIC**  
 SCALE: NTS



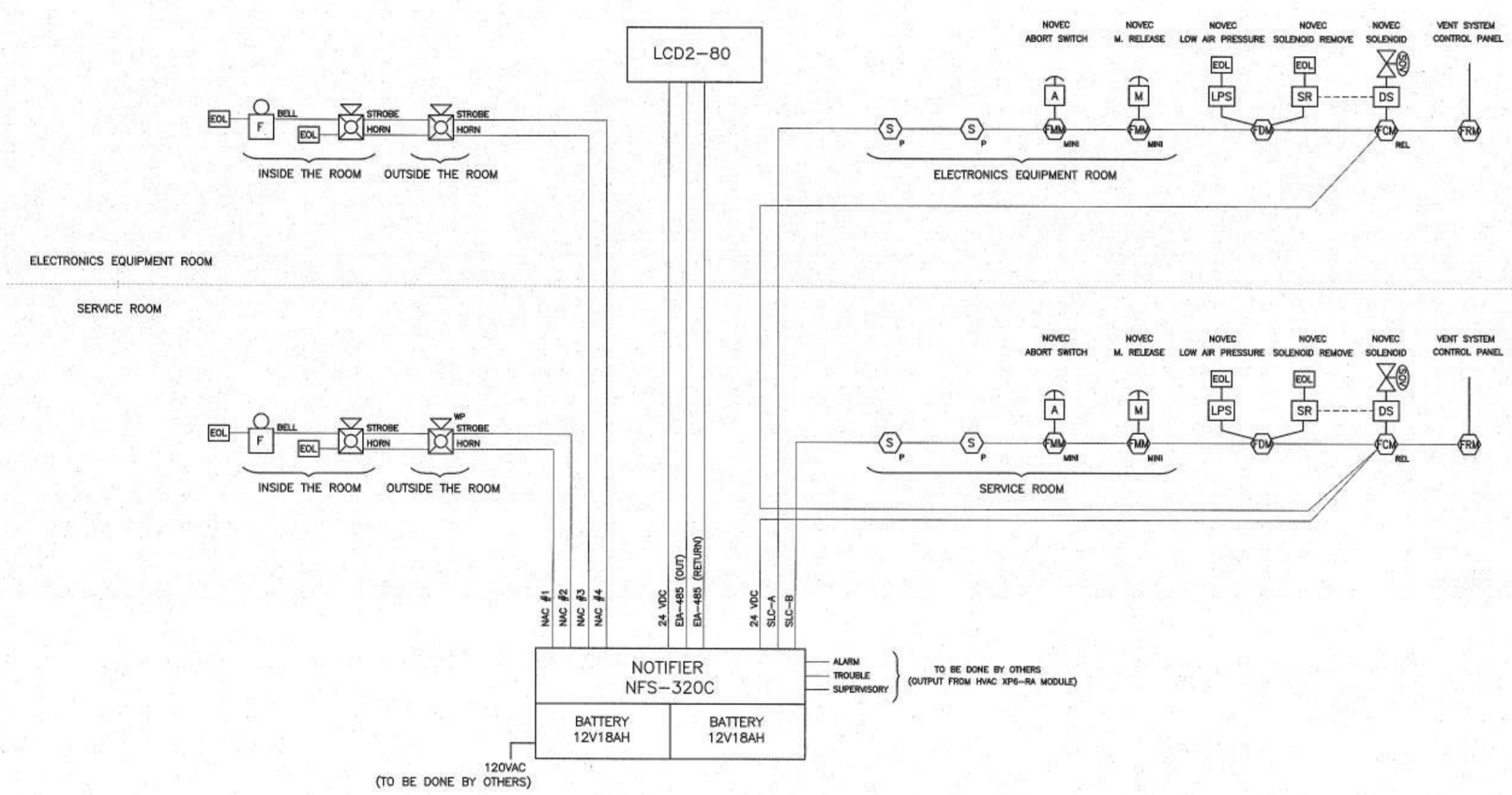
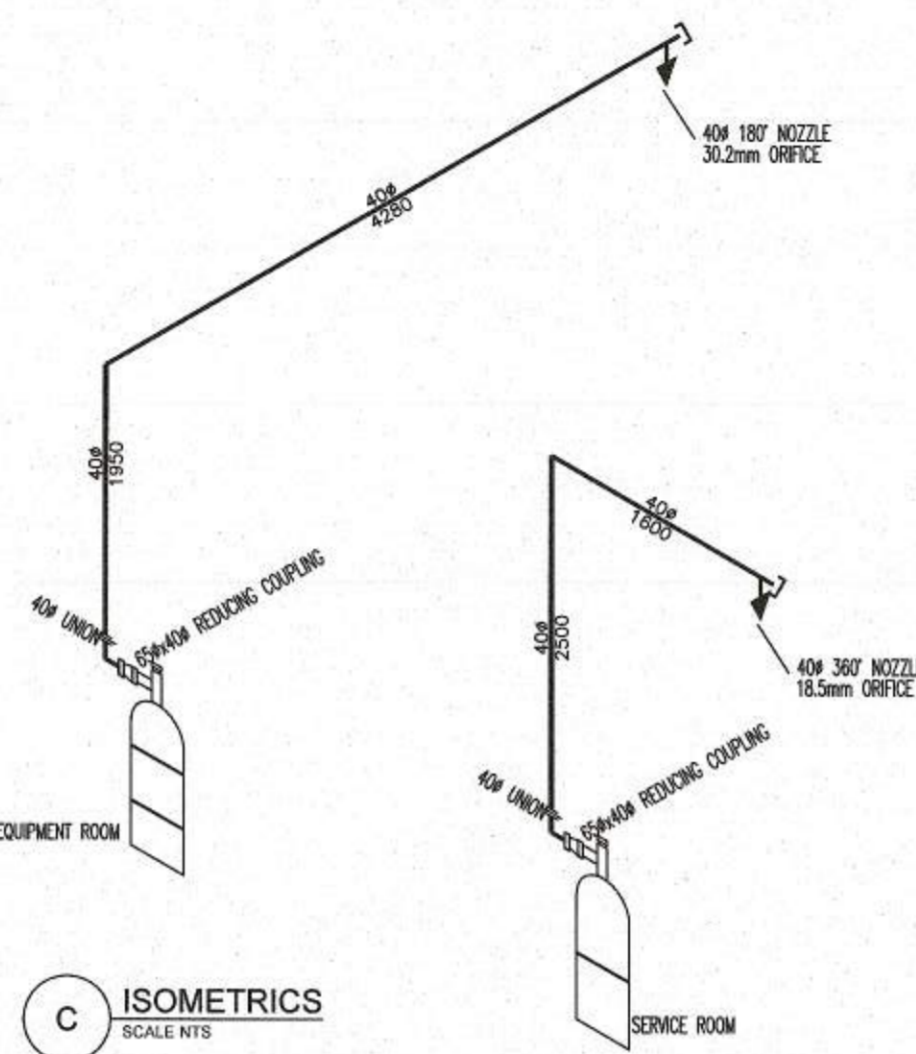
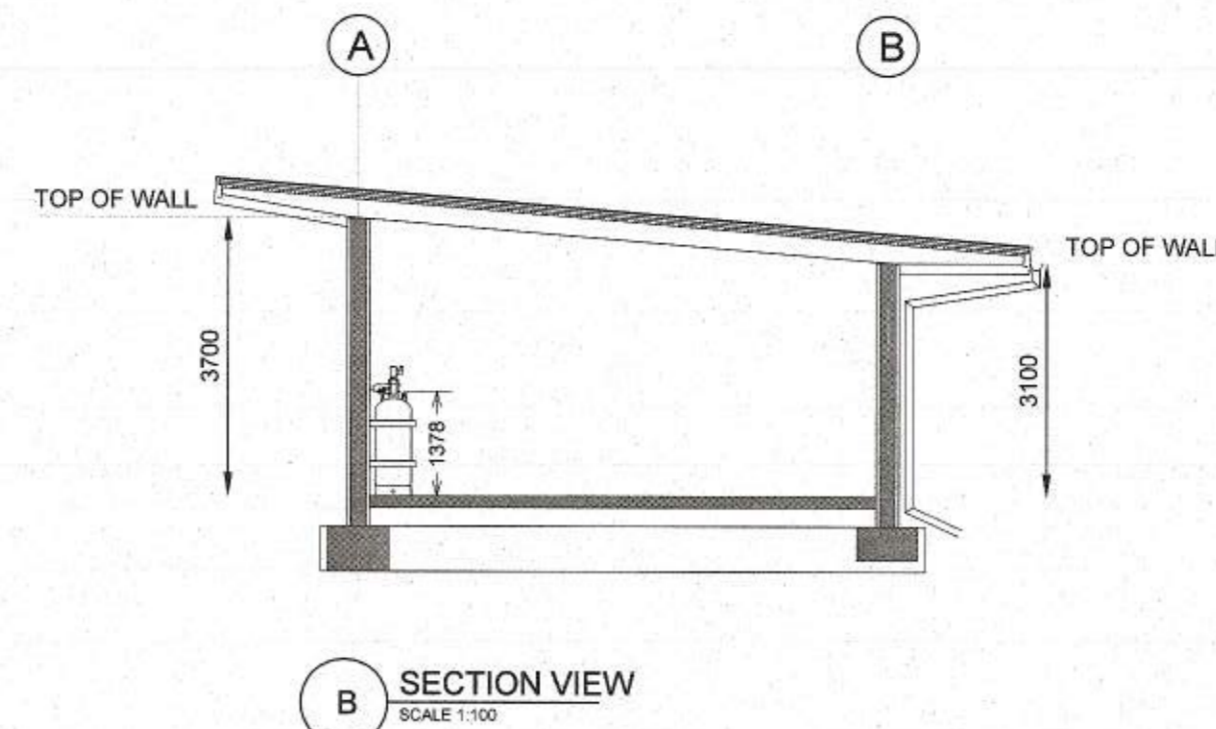
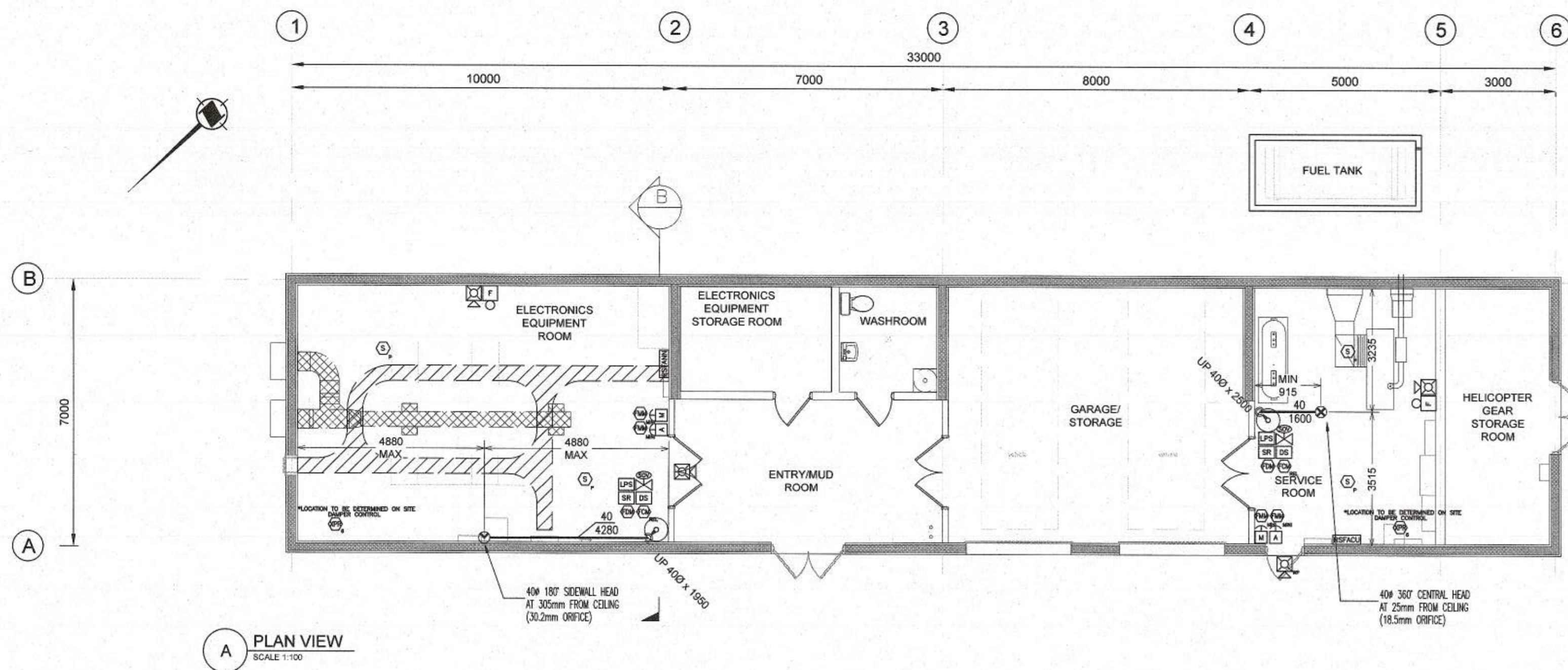
**EXTERIOR CLEAN-OUT DETAIL**  
 SCALE: NTS



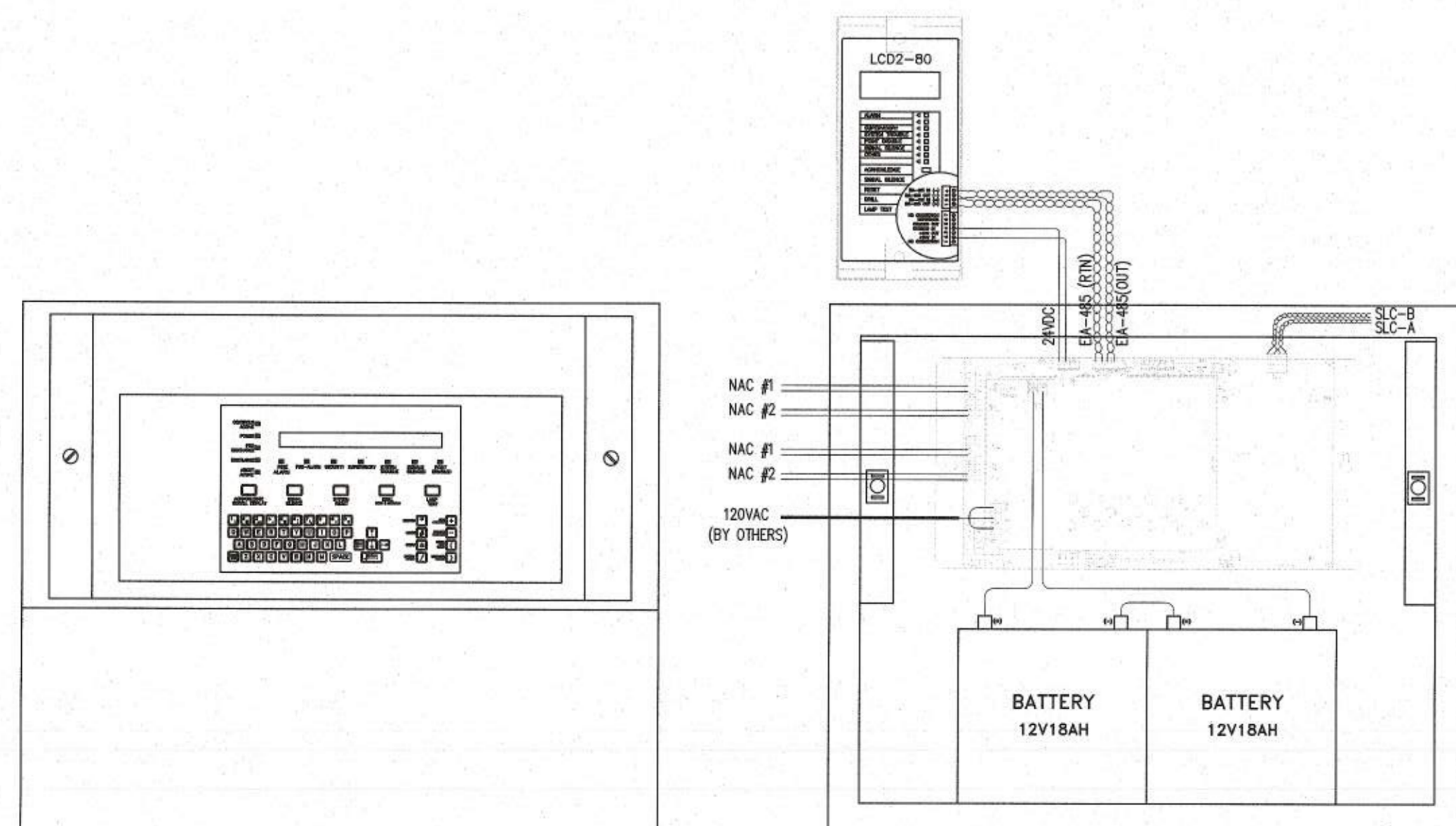
rev	description	by	date
7	RE-ISSUED FOR TENDER	HD	2019-03-22
6	RE-ISSUED FOR TENDER	BM	2019-02-27
5	ISSUED FOR TENDER	BM	2018-10-02
4	RE-ISSUED FOR 100% REVIEW	BM	2018-09-24
3	ISSUED FOR 100% REVIEW	BM	2018-09-19
2	ISSUED FOR 80% REVIEW	BM	2018-08-31
1	COORDINATION	BM	2018-08-22

Asset - Actif  
**WM104 AMPHITRITE POINT EQUIPMENT BUILDING**  
 Drawing - Dessin  
**MECHANICAL PLAN AND DETAILS**

drawn - dessiné	date
B.McINTYRE	2019-02-27
designed - conception	date
B.McINTYRE	2018-10-02
checked - vérifié	date
A.CHONG	2018-10-02
approved - approuvé	date
CCG ref. no. - no. réf. GCC	scale - échelle
WM104-1025	AS NOTED
drawing no. - no. dessin	sheet-feuille rev-rév
M-002	03/03 7

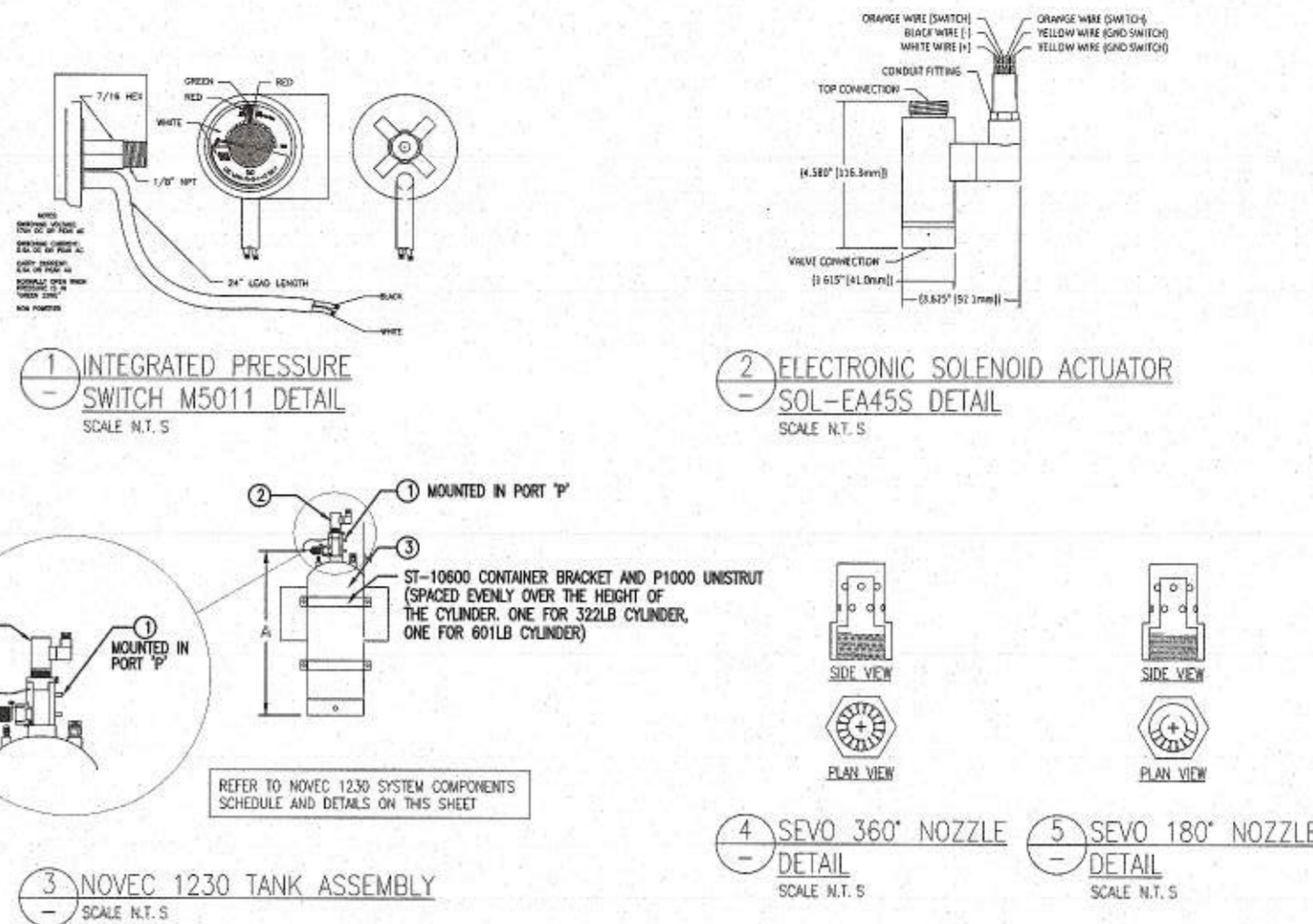


D RELEASING SYSTEM RISER DIAGRAM NTS



E RELEASING PANEL LAYOUT NTS

NOTES:  
 NOZZLES MUST BE IN A VERTICAL POSITION.  
 NOZZLES TO BE ABOVE THE ROOM BEING PROTECTED.  
 180° NOZZLES TO BE 12" AWAY FROM THE WALL BEING PROTECTED.  
 NOZZLES TO BE 1" TO 1 1/2" DOWN FROM THE CEILING.  
 NOZZLES TO HAVE NO OBSTRUCTIONS CLOSER THAN 2"-6", INCLUDING WALLS.  
 NOZZLES TO BE SPACED 12" MAXIMUM 14" AWAY FROM WALLS.  
 PIPE TO BE BRACED WITHIN 1'-0" OF ALL DISCHARGE NOZZLES.  
 PRESSURIZED CYLINDERS WILL BE STORED WITH TRANSPORT CAPS IN PLACE.  
 TRANSPORT CAPS ARE ONLY TO BE REMOVED BY WIRING PERSONNEL.  
 SOLIDIFIED NOZZLES WILL BE OPEN TO THE ELECTRICAL CONTRACTOR INCLUDING THE FIRE ALARM RELEASING SYSTEM AND MUST BE SIGNED FOR.  
 SOLIDIFIED NOZZLES WILL BE REPAIRED ON THE TOP OF THE PRESSURIZED CYLINDERS BY WIRING PERSONNEL ONLY ONCE FINAL FIRE ALARM VERIFICATION IS COMPLETE.



ITEM	PRODUCT #	DESCRIPTION	QUANTITY
1	MS011	INTEGRATED PRESSURE SWITCH	2
2	SOL-EA445S	ELECTRIC SOLENOID ACTUATOR WITH SUPERVISORY SWITCH	2
3	CV140057-500	322LB CYLINDER ASSEMBLY C/W 169.5LB OF NOVEC 1230 AGENT. SEE TANK CHARACTERISTICS BELOW	1
3	CV14813-500	601LB CYLINDER ASSEMBLY C/W 335.5LB OF NOVEC 1230 AGENT. SEE TANK CHARACTERISTICS BELOW	1
3	ST-10800	CONTAINER BRACKET FOR 322 & 601LB CYLINDER	3
3	LL-30020-1	LIQUID LEVEL INDICATOR FOR 322LB CYLINDER	1
3	LL-30020-2	LIQUID LEVEL INDICATOR FOR 601LB CYLINDER	1
4	N180-1.5-18.5	40# SEVO CHROME NOZZLE 360° - 18.5mm ORIFICE	1
5	N180-1.5-30.2	40# SEVO CHROME NOZZLE 180° - 30.2mm ORIFICE	1

SHIPPING ASSEMBLY PART NO.	NOMINAL TANK SIZE (LBS)	AGENT QUANTITY (LBS)	APPROXIMATE EMPTY WEIGHT (LB)	DIMENSION 7" (INCH)	DIAMETER (INCH)	VALVE SIZE (INCH)
140057	322	169.5	220	3.34	20	2 1/2"
14813	601	335.0	320	5.44	20	2 1/2"

GENERAL NOTES:  
 PIPE MATERIAL: SCHEDULE 40 BLACK STEEL.  
 FITTINGS: WALLEADLE IRON 3000# THREAD.  
 HANGERS: ALL THREAD ROD, RINGS, PIPE CLAMPS, UNISTRUT

ITEM	PRODUCT #	DESCRIPTION	QUANTITY
1	RF-3200	FIRE ALARM CONTROL PANEL	1
2	8008AT1218	BATTERY 12V 18AH	2
3	LC02-80	LED ANNUNCIATOR	1
4	8018LN	DETECTOR BELL	4
5	TOP-8014	ADDRESSABLE SMOKE DETECTOR	4
6	SS-24024B-EN	ABORT SWITCH	2
7	SS-24024A-EN	DISCONNECT SWITCH	2
8	ED27163	BACK BOX	4
9	MS-0128	MANUAL RELEASE	2
10	SB-10	SURFACE BACKBOX	2
11	PARA	HORN/STROBE	3
12	PARA	HORN/STROBE, OUTDOOR	1
13	EMG-6-24A	ALARM BELL	2
14	FCM-1-RELA	RELEASING CONTROL MODULE	2
15	FM-1A	DUAL MONITOR MODULE	2
16	FRM-10A	MINI MONITOR MODULE	4
17	FRM-1A	RELAY MODULE	1
18	XP4-8A	SIX RELAY MODULE	1
19	BB-9P	BACK BOX	1
20	EDL-OR	END-OF-LINE RESISTOR	4

SYMBOL	DESCRIPTION
[Symbol]	RELEASING PANEL
[Symbol]	RELEASING ANNUNCIATOR
[Symbol]	SMOKE DETECTOR - PHOTOELECTRIC
[Symbol]	MANUAL RELEASE
[Symbol]	ABORT SWITCH
[Symbol]	SOLENOID
[Symbol]	DISCONNECT SWITCH
[Symbol]	LOW PRESSURE SWITCH
[Symbol]	SOLENOID REMOVAL SUPERVISORY SWITCH
[Symbol]	ALARM BELL
[Symbol]	HORN/STROBE
[Symbol]	HORN/STROBE, OUTDOOR
[Symbol]	RELEASING CONTROL MODULE
[Symbol]	DUAL MONITOR MODULE
[Symbol]	MINI MONITOR MODULE
[Symbol]	RELAY CONTROL MODULE
[Symbol]	SIX RELAY CONTROL MODULE
[Symbol]	END-OF-LINE RESISTOR
[Symbol]	SLC TWISTED-UNSHIELDED PAIR, 12 TO 18 AWG
[Symbol]	NAC 2# 12 TO 18 AWG
[Symbol]	IDC 2# 12 TO 18 AWG
[Symbol]	24VDC 2# 12 TO 18 AWG

NOTE:  
 • MOTORIZED DAMPERS ON THE NOVEC SYSTEM PROTECTED SPACE SHOULD BE CLOSED IN 30 SECONDS TO BE CONFIRMED ON SITE (IF APPLICABLE).  
 SCOPE OF WORK:  
 • ELECTRICAL CONTRACTOR RESPONSIBLE FOR INSTALLING AND WIRING OF FIRE ALARM PANELS AND DEVICES AS SHOWN.  
 • FIRE ALARM SYSTEM SUPPLIER TO SUPPLY AND VERIFY THE FIRE ALARM PANELS AND DEVICES AS SHOWN.  
 SEQUENCE OF OPERATIONS (CROSS ZONED INTEGRATED SMOKE DETECTION SYSTEM)  
 1. FIRST ALARM (ACTIVATION OF ANY ONE SMOKE DETECTOR):  
 1.1 ACTIVATES BELL INSIDE THE PROTECTED SPACE.  
 1.2 ACTIVATES STROBE INSIDE AND OUTSIDE THE PROTECTED SPACE.  
 1.3 SENDS ALARM SIGNAL TO THE SECURITY PANEL.  
 2. SECOND ALARM (ACTIVATION OF SECOND SMOKE DETECTOR):  
 2.1 ACTIVATES HORNS INSIDE AND OUTSIDE THE ROOM WITH CONTINUOUS TONE.  
 2.2 ACTIVATES THE SYSTEM AGENT RELEASE TIMER FOR 30 SECONDS.  
 2.3 SENDS ALARM SIGNAL TO VENT SYSTEM CONTROL PANEL TO CONTROL THE FAN AND MOTORIZED DAMPERS.  
 2.4 NOTIFIES THE NOVEC SYSTEM TO THE PROTECTED SPACE.  
 3. EXPIRATION OF THE TIMER:  
 3.1 DISCHARGES THE NOVEC INTO THE PROTECTED SPACE UNLESS THE ABORT SWITCH IS ACTIVATED.  
 4. MANUAL RELEASE SEQUENCE TO:  
 4.1 INITIATE BOTH FIRST AND SECOND ALARM SEQUENCE WITH NO TIME DELAY.  
 5. ABORT SWITCH OPERATES AS FOLLOWS:  
 5.1 WILL STOP THE DISCHARGE TIMER AT 10 SECONDS.  
 5.2 RELEASES ABORT SWITCH WILL DISCHARGE NOVEC AFTER 10 SECONDS, UNLESS THE RELEASING PANEL HAS BEEN RESET.  
 6. NOVEC SOLENOID REMOVE.  
 6.1 SENDS A TROUBLE SIGNAL TO RELEASE PANEL.

INSTALLATION STANDARDS:  
 • INSTALLATION OF FIRE ALARM SYSTEMS - CAN/ULC 524-06  
 • CAN 122.1, CANADIAN ELECTRIC CODE  
 • VERIFICATION OF FIRE ALARM SYSTEMS - CAN/ULC 537-04

**IMPORTANT!**  
 OWNERS MUST MAINTAIN SUFFICIENT HEAT MINIMUM 10°C (50°F) THROUGHOUT THE AREAS WHERE "VEY" SYSTEM ARE INSTALLED TO PREVENT FREEZING OF WATER LINES AND ANTI-FREEZE ON A DRY SYSTEM IS PROVIDED.

[ 12 IN ] INDICATES THE DISTANCE IN INCHES OR MILLIMETERS FROM THE CENTER LINE OF THE PIPE TO THE UNDERSIDE OF THE CEILING, CONCRETE SLAB OR ROOF DECK.  
 [ 1/4 ] INDICATES THE DISTANCE IN FEET OR MILLIMETERS FROM THE CENTER LINE OF THE PIPE TO THE FLOOR.

HYDRAULIC REFERENCE POINT  
 SPRINKLERS IN CENTER OF TILES  
 NONE 1 WAY 2 WAYS

NOTES:  
 THIS DRAWING IS THE PROPERTY OF VIKING FIRE PROTECTION INC. AND IS INTENDED TO BE USED FOR PURPOSES OF THIS PROJECT. THE DISTRIBUTION OR REPRODUCTION IS PROHIBITED UNLESS EXPRESSLY AUTHORIZED.  
 MEASUREMENT TOLERANCE: 1/32" (1.5mm)

VERIFICATION CODE (ED)  
 DATE  
 FOREMAN INITIALS  
 DATE

THE FOLLOWING TO BE PROVIDED OR PERFORMED BY VIKING OTHER N/A

DESCRIPTION	PROVIDED	OTHER	N/A
EXCAVATING AND BACKFILLING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UNDERGROUND WATER MAIN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CITY WATER CONNECTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ELECTRICAL WIRING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ELECTRICAL COMPONENTS CONNECTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FIRE HOSE CABINET	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FIRE DEPARTMENT CONNECTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MAIN CONTROL VALVE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FIRE SUPPLY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PAINTING PIPES & EQUIPMENTS IF REQUIRED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SCHEMATIC WATER CONNECTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4" (100mm) HUB DRAIN OUTLET	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ELEVATOR CORDWAY FIRE STOPPING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PORTABLE FIRE EXTINGUISHERS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PIPING & FITTINGS

CLASS	DESCRIPTION	LINE	MAIN
CLASS 82	TYTON JOINT	<input type="checkbox"/>	<input type="checkbox"/>
CLASS 83	MESH JOINT	<input type="checkbox"/>	<input type="checkbox"/>
P.V.C.	CLAY PIPE	<input type="checkbox"/>	<input type="checkbox"/>
1 1/4" ABOVEGROUND - LINES	CONCRETE ANCHOR	<input type="checkbox"/>	<input type="checkbox"/>
BCH 10	THREAD MALL	<input type="checkbox"/>	<input type="checkbox"/>
BCH 40	THREAD CL	<input type="checkbox"/>	<input type="checkbox"/>
O.P.V.C.	GROUND GALV.	<input type="checkbox"/>	<input type="checkbox"/>
DRALVANIZED	GROUND STEEL	<input type="checkbox"/>	<input type="checkbox"/>
DRALVANIZED	GROUND GALV.	<input type="checkbox"/>	<input type="checkbox"/>
ABOVEGROUND - MAINS	UPROFILE CHANNEL	<input type="checkbox"/>	<input type="checkbox"/>
BCH 10	THREAD MALL	<input type="checkbox"/>	<input type="checkbox"/>
BCH 40	THREAD CL	<input type="checkbox"/>	<input type="checkbox"/>
BCH 40	GROUND STEEL	<input type="checkbox"/>	<input type="checkbox"/>
DRALVANIZED	GROUND GALV.	<input type="checkbox"/>	<input type="checkbox"/>

SPRINKLERS

SYM	CLASS	THREAT	NOV	MAX COV	MODEL	QTY

REQUIREMENTS & APPROVALS

APPLICABLE CODES & STANDARDS	DESIGN ACCORDING TO
<input type="checkbox"/> NFPA 1 (2007) <input type="checkbox"/> NFPA 13 (2010) <input type="checkbox"/> NFPA 20 (2010)	<input type="checkbox"/> NFPA <input type="checkbox"/> BDC
<input type="checkbox"/> NFPA 13 (2010) <input type="checkbox"/> NFPA 14 (2010) <input type="checkbox"/> NFPA 20 (2010)	<input type="checkbox"/> NFPA <input type="checkbox"/> VERR
<input type="checkbox"/> NFPA 13 (2010) <input type="checkbox"/> NFPA 14 (2010) <input type="checkbox"/> NFPA 20 (2010)	<input type="checkbox"/> NFPA 2001.72

APPROVED BY: ISSUED: APPROVAL

ENGINEER STAMP: TYPE OF SYSTEM

REVISIONS

REV	BY	DATE
1	ISSUED FOR APPROVAL	NOV 30 2010

VANCOUVER 1785 South Fraser Hwy Unit 140 TEL: (604) 324-7122  
 Burnaby British Columbia V5L 0A7 FAX: (604) 324-8200

**VIKING**  
 VIKING FIRE PROTECTION INC.

DATE: 2010-11-30 Canadian Coast Guard  
 DRAWN BY: WM104 Amphibrite Point  
 K. Calloway/Chen Uchelet, BC  
 CHECK BY: PROJECT: SECTION: Fire Suppression Systems  
 A. Hoffman CONTRACT WITH: Canadian Coast Guard  
 CONTRACT NO: SCALE: SHEET NO:  
 XVS00271 1:100 FP-01

