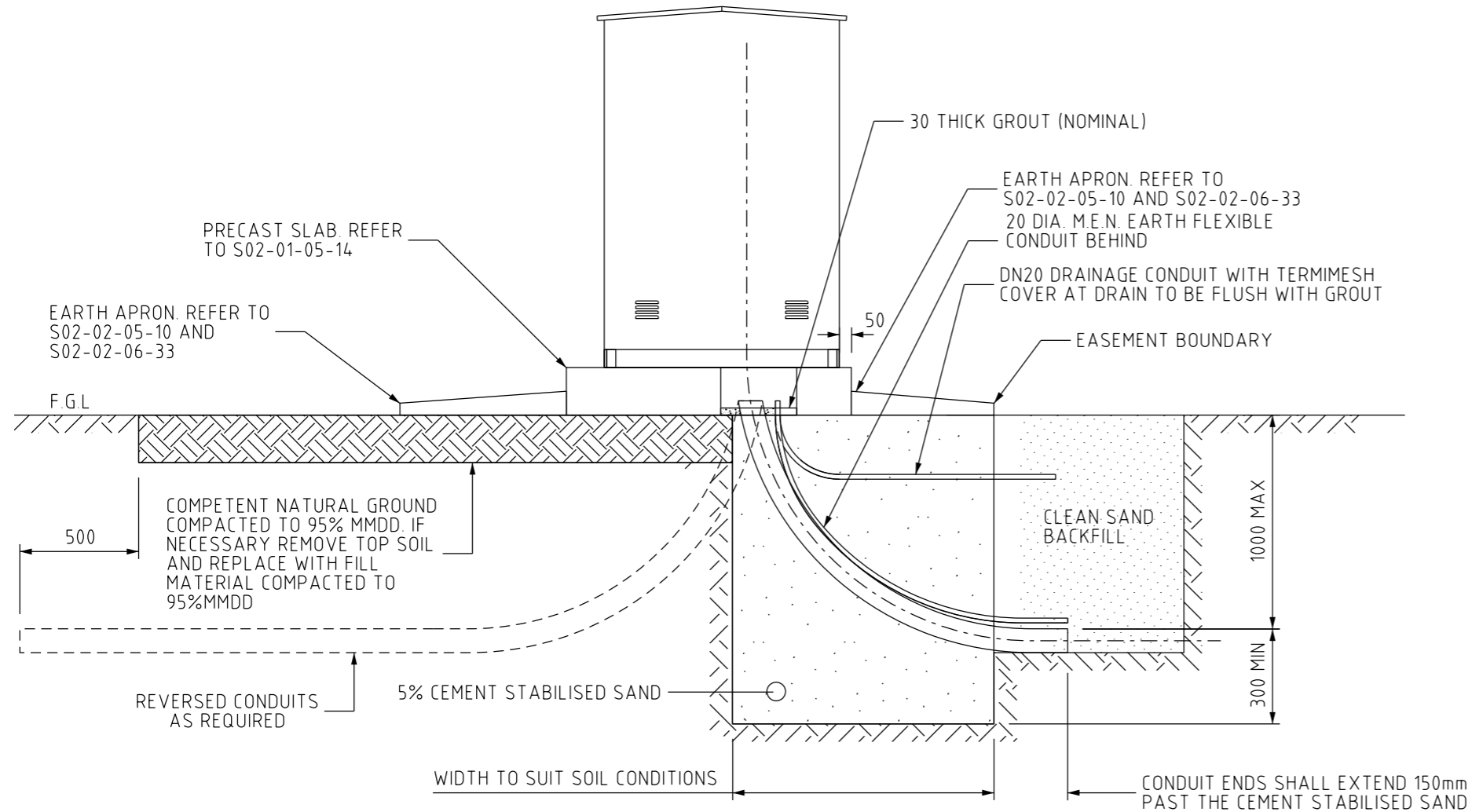


GENERAL NOTES-

1. INSTALLATION DETAILS ARE PROVIDED FOR THE GENERAL 3500x2500 EASEMENT.
2. CIVIL FOUNDATION IS DESIGNED FOR PWC STANDARD SPECIFICATION SOIL TYPE 1, 2 & 3 AND LIMITED TO THE PWC APPROVED 4 WAY ENCLOSURE. REFER TO S02-01-04-19 FOR DETAILS BELL ENDS OF CONDUIT IN CABLE ENTRY SHALL BE REMOVED PRIOR TO ASSEMBLY
3. FOR OTHER SOIL TYPES THE PWC STANDARD CIVIL DESIGN MUST BE REVIEWED AND THE AMENDED DESIGN SUBMITTED TO PWC FOR APPROVAL.
4. EARTHING, REFER TO S02-02-05-06 FOR DETAILS.
5. HEAVY DUTY ORANGE 100mm DIAMETER CONDUITS WITH 1200mm RADIUS BENDS SHALL BE USED FOR HV CABLE ENTRY. BELL ENDS SHALL BE REMOVED WITHIN THE CABLE VOID PRIOR TO ASSEMBLY. EACH HV CABLE SHALL OCCUPY ONE SINGLE 100mm CONDUIT.
6. ALL CONDUITS (EXCEPT FOR DRAIN) SHALL BE CUT LEVEL 30mm ABOVE THE FINISHED GROUT LEVEL.
7. ALL CONDUIT ENDS SHALL BE SEALED WITH PWC APPROVED SEALANT (REFER DWG S02-01-09-06) VERMIN MESH SHALL BE INSTALLED IN THE RMU AS REQUIRED.
8. THE PRECAST SLAB AS PER S02-02-06-48 SHALL BE USED FOR THE RMU RING MAIN UNIT INSTALL.
9. INSTALL SUITABLE OUTDOOR NEUTRAL CURING SILICON BEAD AT EDGE OF CONCRETE SLAB CABLE VOID NO GREATER THAN 20mm WIDTH TO LIMIT WATER INGRESS INTO CABLE VOID. THIS SHALL BE DONE PRIOR TO THE PLACEMENT OF THE SUBSTATION.

CIVIL NOTES-

1. THE CONTRACTOR IS RESPONSIBLE FOR ASSESSING SOIL CONDITIONS PRIOR TO COMMENCING WORK. HAZARD IDENTIFICATION AND RISK ASSESSMENT ARE REQUIRED PRIOR TO THE COMMENCEMENT OF WORKS.
2. THIS CIVIL DESIGN IS APPROVED FOR THE FOLLOWING SOIL CONDITIONS. OTHER SOIL CONDITIONS REQUIRE ENGINEERING DESIGN.
 - 2a - SOIL GROUP 1: (GOOD BEARING CAPACITY 300kPa) WELL COMPACTED ROCK SOIL HARD CLAY AND WELL BONDED SAND AND GRAVEL WITH GOOD SURFACE WATER DRAINAGE AND FOOTING NORMALLY ABOVE WATER TABLE.
 - 2b - SOIL GROUP 2 (MEDIUM BEARING 200kPa) COMPACT MEDIUM CLAY WELL BONDED SANDY LOAM BONDED SAND AND GRAVEL WITH REASONABLE SURFACE DRAINAGE.
 - 2c - SOIL GROUP 3: (POOR BEARING 100kPa) SOFT CLAY POOR COMPACTED SAND AND SOILS THAT TEND TO ABSORB LARGE AMOUNTS OF WATER, PROVIDED THESE DO NOT DEVELOP INTO SLUSH.
3. CEMENT STABILISED SAND SHALL BE 5% CEMENT WITH COHESION = 1000kPa AND A FRICTION ANGLE = 30 DEGREES. THE CONTRACTOR SHALL PERFORM TESTS ON SITE TO PROVE THE REQUIRED STRENGTH IS ACHIEVED
4. MAXIMUM ALLOWABLE SURCHARGE IS 15kPa. THE CONTRACTOR IS RESPONSIBLE FOR ACCESSING SOIL CONDITIONS PRIOR TO COMMENCING WORK. KEEP ALL EXCAVATION AND LIFTING PLANT A MINIMUM OF 2000mm FROM THE EXCAVATION EDGE.
5. THE PRECAST SLAB SHALL BE FOUNDED ON COMPETENT NATURAL GROUND (COMPACTED TO 95% MMDD IF TOP SOIL IS PRESENT. REMOVE AND REPLACE WITH FILL MATERIAL THAT IS FREE OF ORGANIC MATTER, HAS A MINIMUM SOAKED CBR AT 95% MMDD OF 20% AT 2.5mm AND A PLASTICITY INDEX BETWEEN 2% AND 15% COMPACTED TO 95% MMDD.
6. FOR RMU'S REQUIRING REVERSE CONDUITS, A SUITABLE WIDTH TRENCH SHALL BE EXCAVATED AND BACK FILLED WITH 5% CEMENT STABILISED SAND. EXCAVATION POSITION TO SUIT CABLE POSITION REQUIREMENTS
7. IF RING MAIN UNIT IS ADJACENT TO PAVING THEN ENSURE PAVING IS FLUSH WITH EDGE OF EARTH APRON.
8. ENSURE 30 THICK GROUT (NOMINAL) IS SLOPED TOWARD DRAIN TO ENSURE ADEQUATE DRAINAGE.
9. ALL LIFTING ANCHORS TO BE GROUTED OR CONCRETE FILLED TO BE FLUSH WITH CONCRETE SLAB FACE.



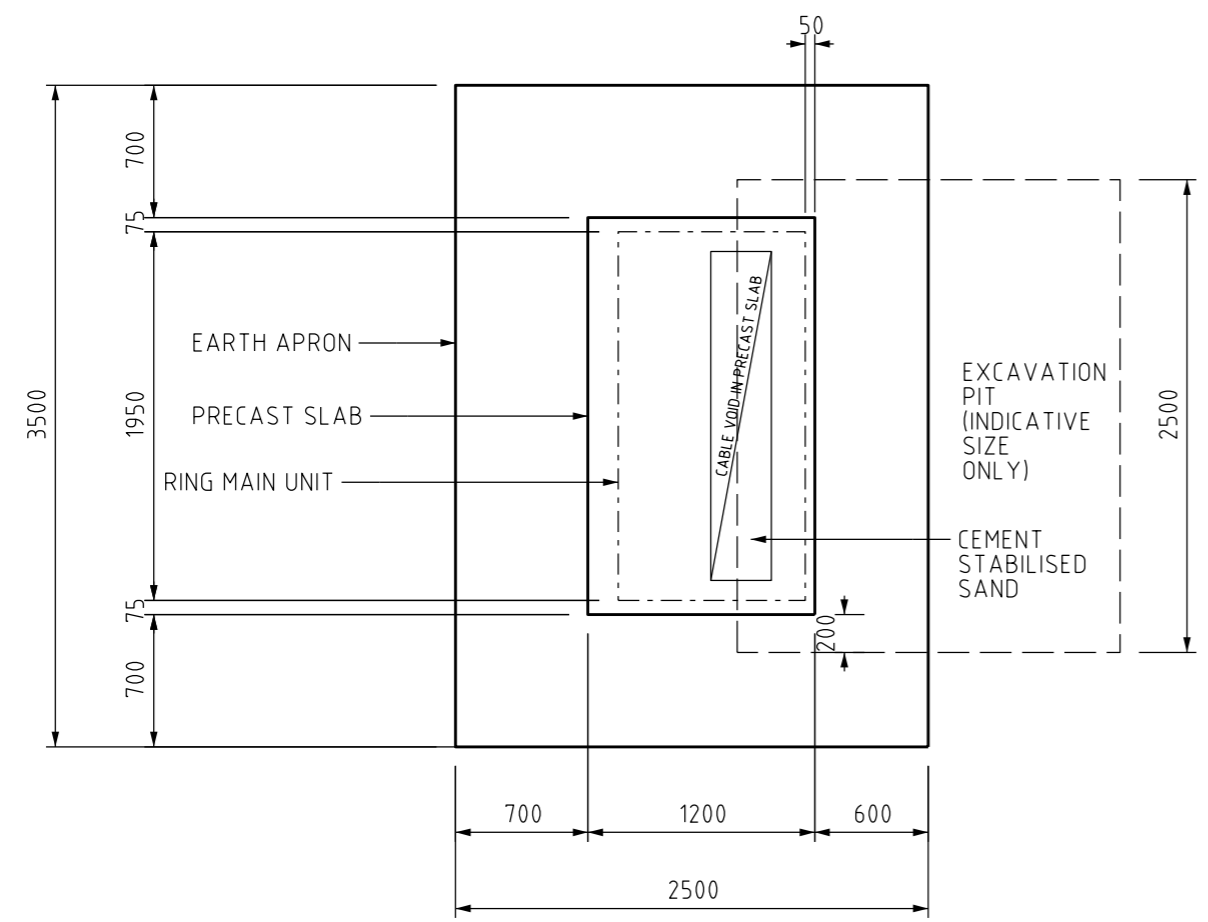
ELEVATION
SCALE 1:25

NO	DESCRIPTION	DRN	DATE	CKD	APPD
7	AMEND NOTE 7. ADD CIVIL NOTE 9. AMEND SHEETS 2, 3 & 4.	C.C.	DEC'21	B.V.	A.N.
6	GENERAL & CIVIL NOTES UPDATED. SHEET 2, 3 & 4 AMENDED	C.C.	JUL'21	B.V.	B.C.
5	RENEW CIVIL INSTALLATION DESIGN. ADD SHEET 2, 3 & 4	C.C.	MAR'21	B.V.	B.C.
4	AMENDED DRAWING FRAME & FONTS	CWM	FEB'20	BV	BV
3	ADD NOTE 14, AND REMOVE EXPANDING FOAM REFERENCE	CWM	NOV'19	BV	BV
2	TITLE BLOCK & DRAWING NUMBER FORMATTED	KT	FEB'19	CC	CC
1	INCLUDE BROWNFIELDS WALL INSTALLATION NOTES	PH	APR'18	BC	BV
0	ISSUED FOR CONSTRUCTION	SHW	SEP'17	MP	MP



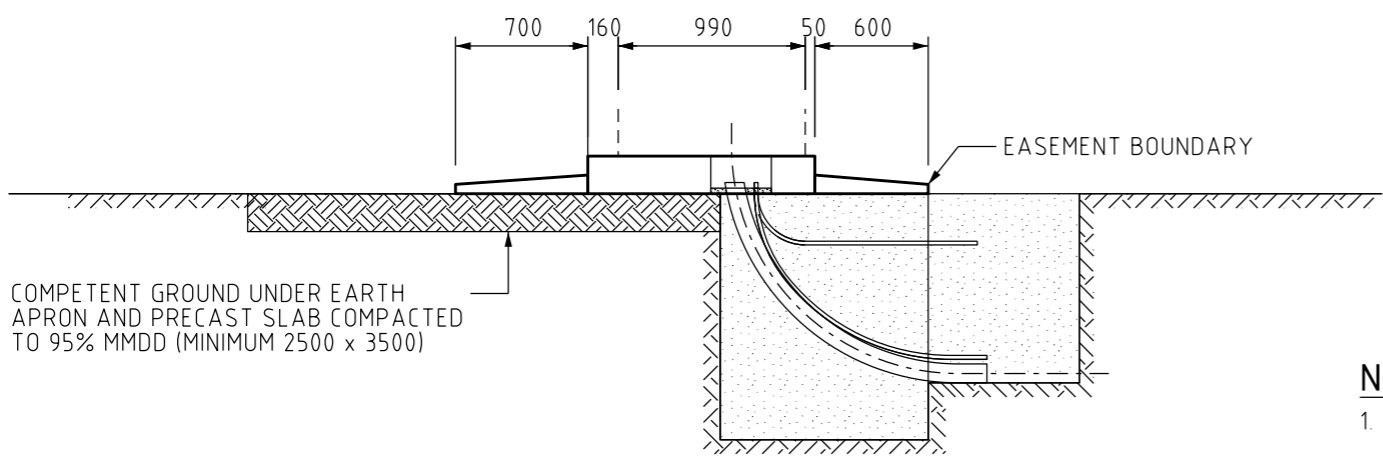
DES		POWER STANDARD DRAWING	
DRN	C.COPPINS	CIVIL, SCHNEIDER RM6 RING MAIN UNIT	
CKD	B.VANDERSTELT	GENERAL ARRANGEMENT	
APPD	B.CHEUNG	CABLE ENTRY AND FOUNDATION	
SCALE	AS SHOWN	DETAILS ELEVATION	
ISSUED	MARCH'2021	SHEET 1 OF 4	
ALL DIM. IN mm	A3	DRAWING NUMBER	S02-02-06-23_1
DRAFTING STANDARD TO A.S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY	





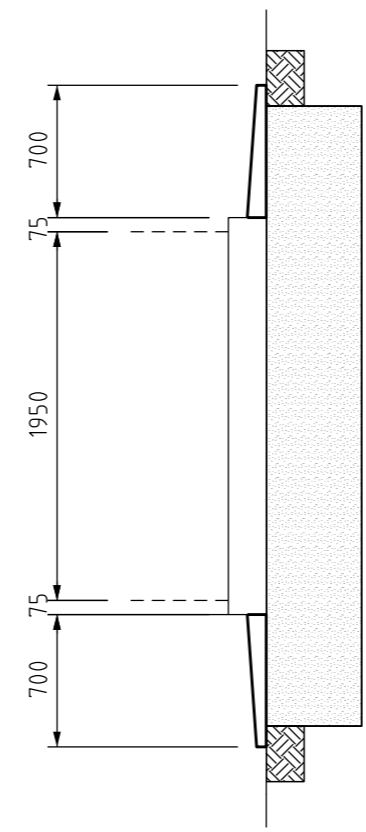
PLAN VIEW

1:40



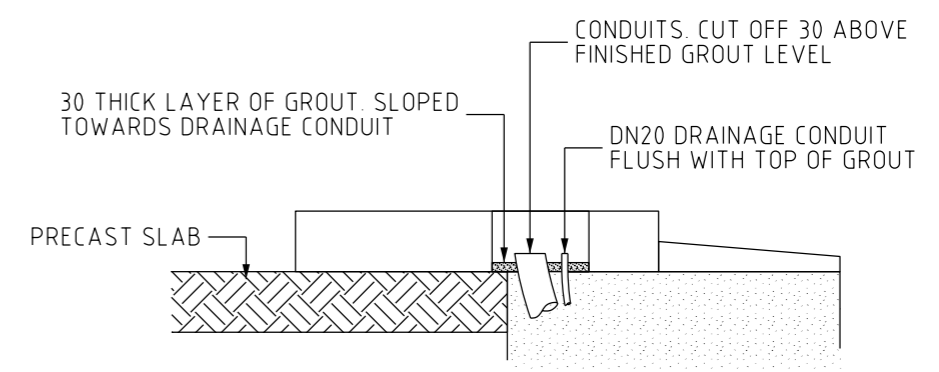
FRONT VIEW

1:40

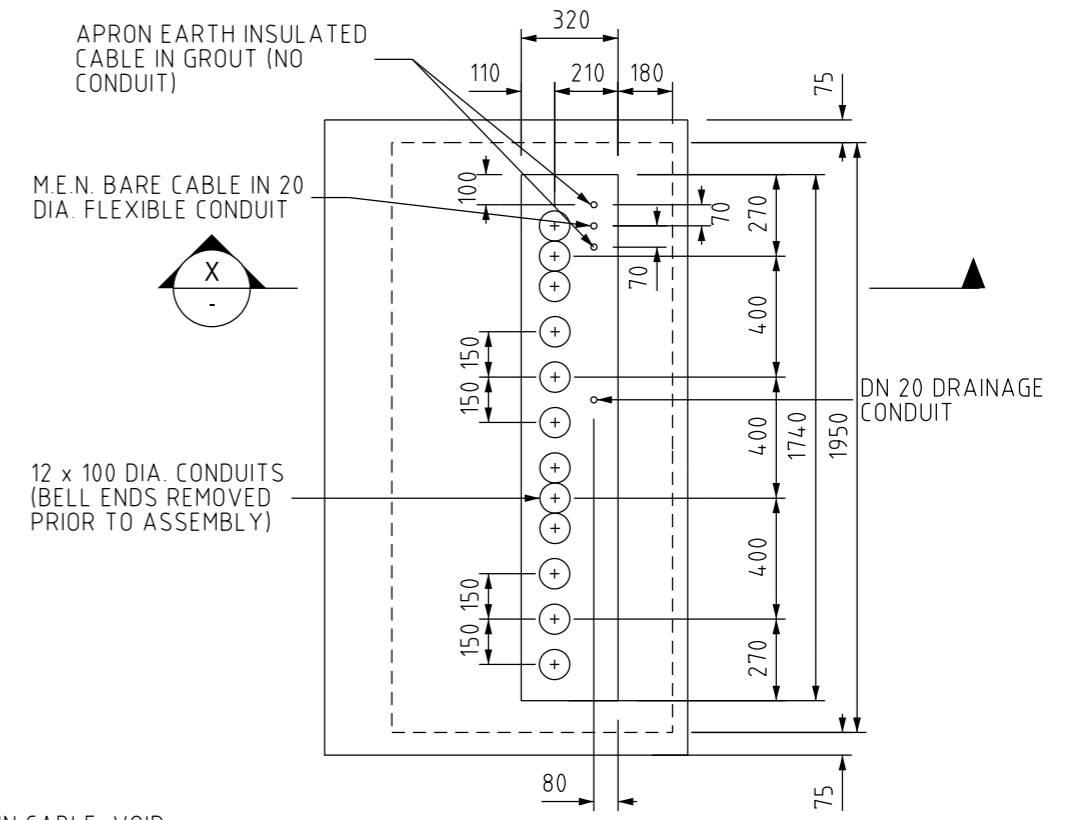


SIDE VIEW

1:40



SECTION
X
-
N.T.S.



CONDUIT ENTRY DETAILS

SCALE 1:25

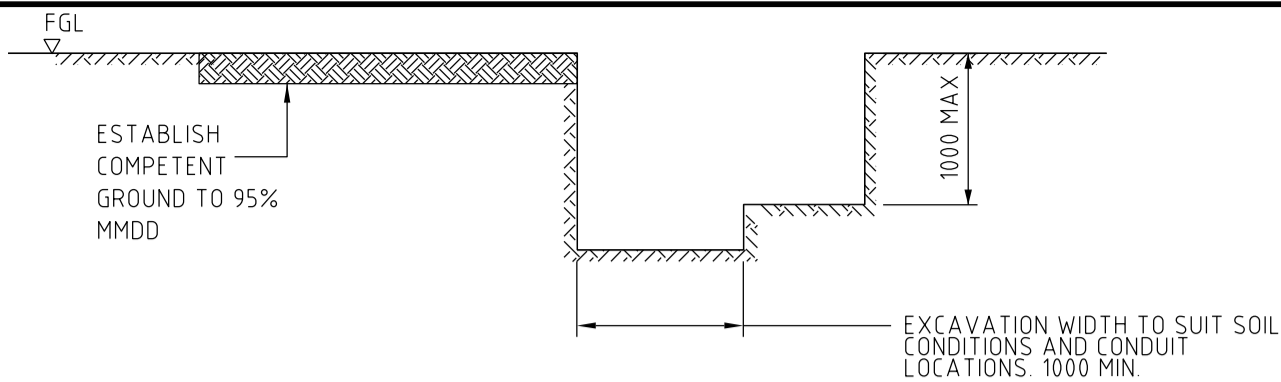
NOTES:

1. ALL BELL ENDS REMOVED IN CABLE VOID PRIOR TO ASSEMBLY.
2. CROSS SECTION DETAILS SIMPLIFIED FOR CLARITY.

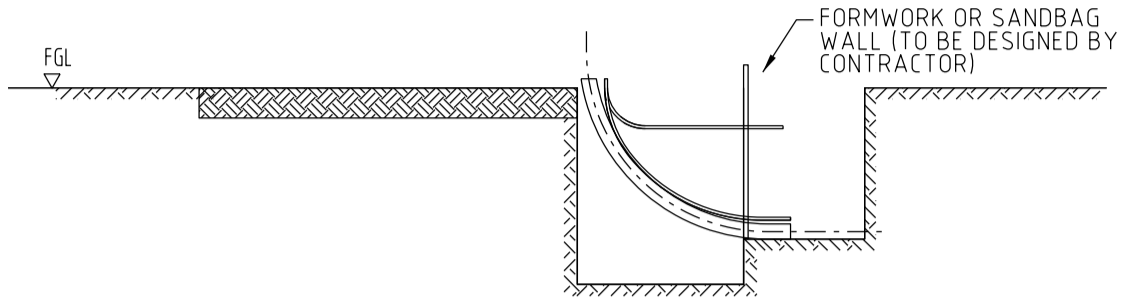
NO	DESCRIPTION	DRN	DATE	CKD	APPD
2	ADD SECOND LOCAL EARTH CONDUIT.	C.C.	DEC'21	B.V.	A.N.
1	NOTES 1 & 2 ADDED.	C.C.	JUL'21	B.V.	B.C.
0	ISSUED FOR CONSTRUCTION	C.C.	MAR'21	B.V.	B.C.
AMENDMENTS					



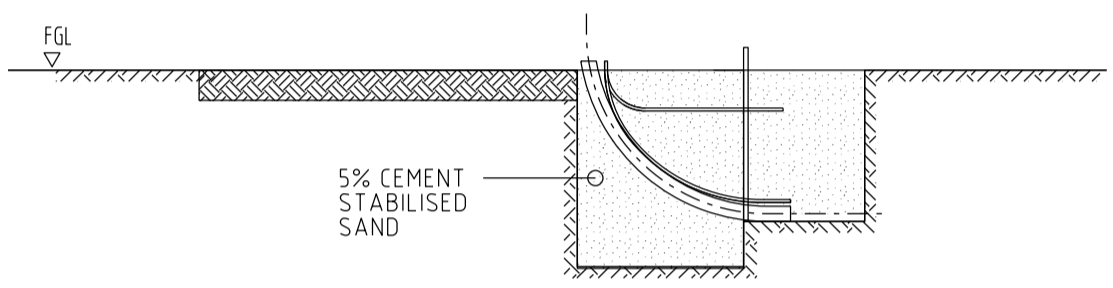
DES		POWER STANDARD DRAWING	
DRN	C.COPPINS	CIVIL, SCHNEIDER RM6 RING MAIN UNIT	
CKD	B.VANDERSTELT	CABLE ENTRY	
APPD	B.CHEUNG	AND FOUNDATION DETAILS SETOUT DRAWING	
SCALE AS SHOWN		SHEET 2 OF 4	
ISSUED	MARCH'2021	A3	DRAWING NUMBER S02-02-06-23_2
ALL DIM. IN mm		CAD PRODUCT - DO NOT AMEND MANUALLY	
DRAFTING STANDARD TO A.S.1100		AMDT	



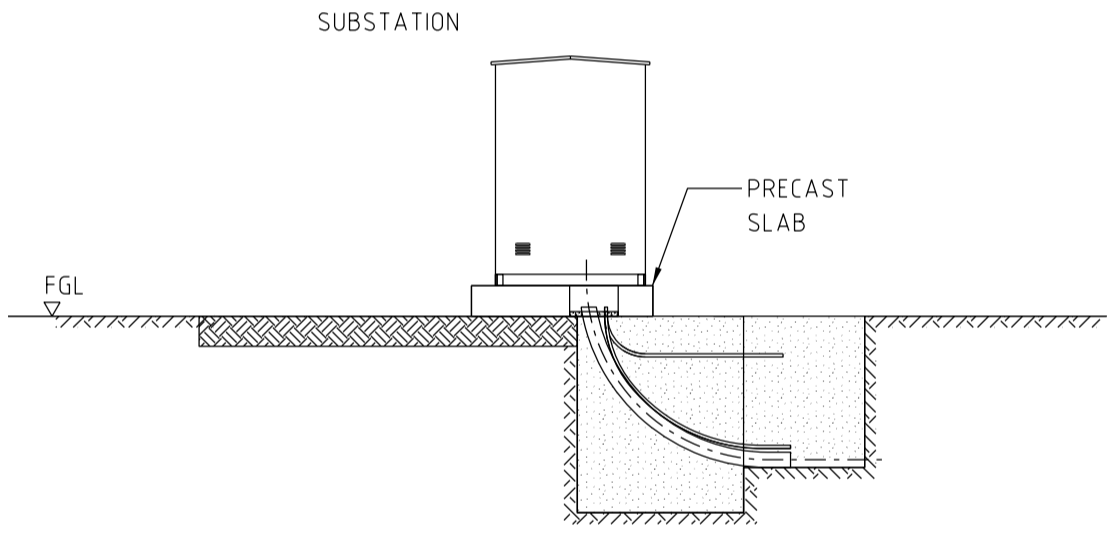
STEP 1 - COMPACT PAD FOR SLAB, INSTALL STANDARD JIG AND EXCAVATE SITE



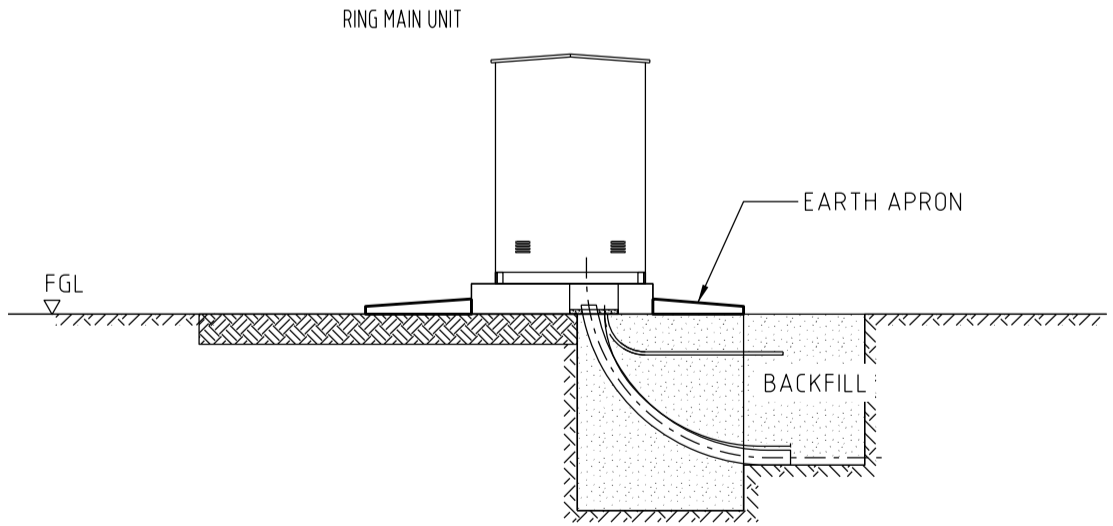
STEP 2 - INSTALL THE CONDUITS AND FORMWORK FOR THE CEMENT STABILISED SAND



STEP 3 - PLACE 5% CEMENT STABILISED SAND AND ALLOW IT TO ACHIEVE REQUIRED STRENGTH



STEP 4 - INSTALL PRECAST CONCRETE SLAB, GROUT CONDUIT ENTRY AND INSTALL RING MAIN UNIT INCLUDING CABLES, EARTHING AND TERMINATIONS



STEP 5 - BACKFILL THE PIT AND INSTALL EARTH APRON. MAKE EXISTING PAVING FLUSH WITH EARTH APRON AS REQUIRED

CONSTRUCTION SEQUENCE

1:50

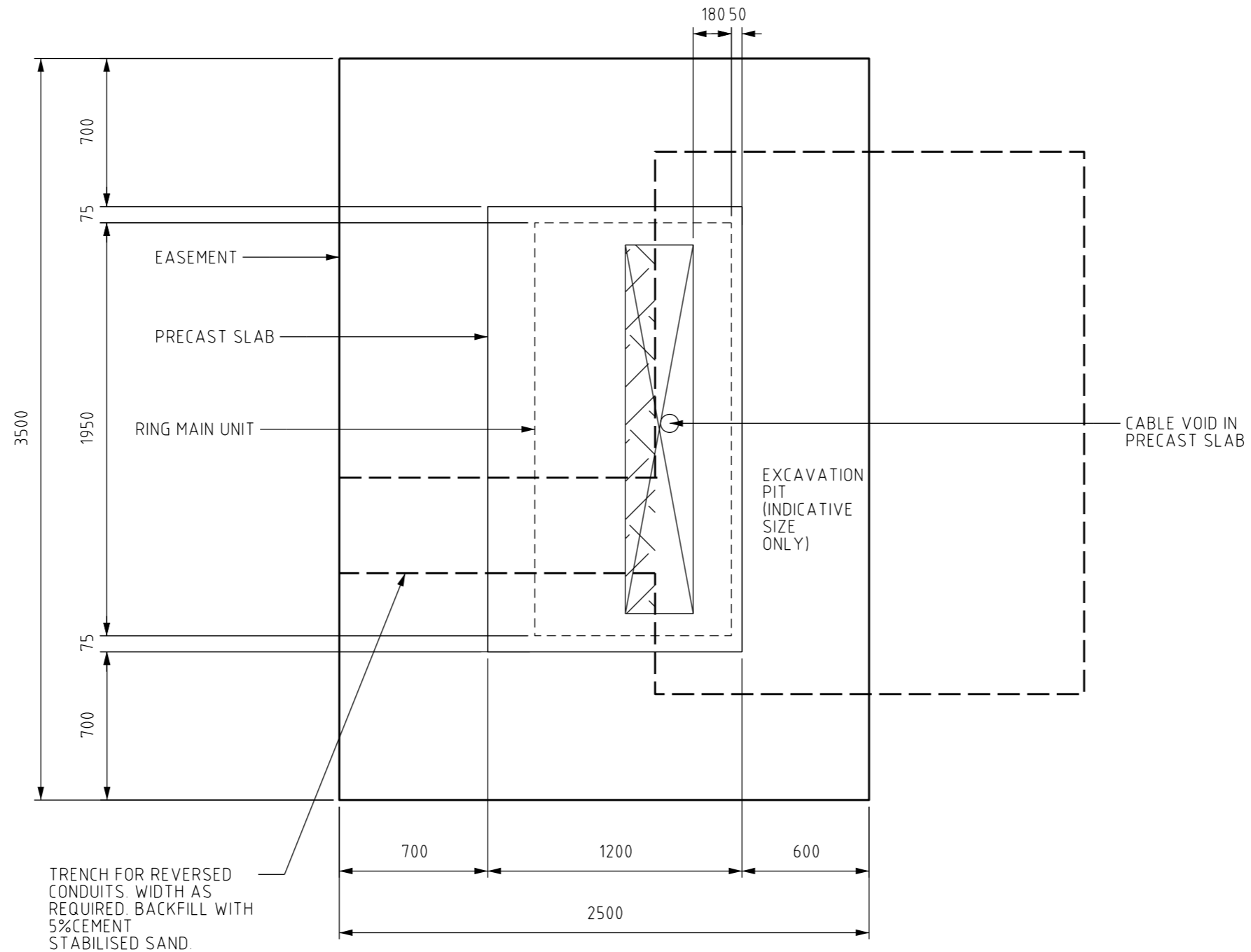
- CONSTRUCTION SEQUENCE NOTES:-
1. ESTABLISH COMPETENT NATURAL GROUND OR SELECT FILL BASE FOR THE SLAB AND COMPACT TO 95% MMDD.
 2. MARK OUT THE SITE
 3. EXCAVATE THE PIT.
 4. INSTALL THE CONDUITS.
 5. PLACE THE 5% CEMENT STABILISED SAND AND ALLOW FOR IT TO REACH THE REQUIRED STRENGTH.
 6. INSTALL THE PRECAST SLAB.
 7. GROUT THE CONDUIT ENTRY OPENING AND CUT OFF THE CONDUITS 30mm ABOVE THE GROUT. ALL LIFTING ANCHORS TO BE GROUTED OR CONCRETE FILLED TO BE FLUSH WITH CONCRETE SLAB FACE.
 8. INSTALL THE RM6 RING MAIN UNIT
 9. BACKFILL THE PIT.
 10. QINSTALL CABLES & TERMINATIONS.
 11. INSTALL THE EARTH APRON.

NOTE:
CROSS SECTION DETAILS SIMPLIFIED FOR CLARITY.

AMENDMENTS		DRN	DATE	CKD	APPD
NO	DESCRIPTION				
2	AMEND NOTE 7.	C.C.	DEC'21	B.V.	A.N.
1	CONSTRUCTION SEQUENCE NOTES UPDATED & NOTES AMENDED	C.C.	JUL'21	B.V.	B.C.
0	ISSUED FOR CONSTRUCTION	C.C.	MAR'21	B.V.	B.C.

PowerWater
NORTHERN TERRITORY

DES	-	POWER STANDARD DRAWING
DRN	C COPPINS	CIVIL SCHNEIDER RM6 RING MAIN UNIT
CKD	B VANDERSTELT	CABLE ENTRY AND FOUNDATION DETAILS
APPD	B CHEUNG	CONSTRUCTION SEQUENCE
SCALE	AS SHOWN	SHEET 3 OF 4
ISSUED	MARCH 2021	
ALL DIM	IN mm	
DRAWING NUMBER	S02-02-06-23_3	
DRAFTING STANDARD	TO A.S.1100	
	CAD PRODUCT - DO NOT AMEND MANUALLY	
AMDT	2	



TRENCH FOR REVERSED CONDUITS. WIDTH AS REQUIRED. BACKFILL WITH 5% CEMENT STABILISED SAND.

PLAN VIEW
1:25

CONSTRUCTION SEQUENCE NOTES:-

1. ESTABLISH COMPETENT NATURAL GROUND OR SELECT FILL BASE FOR THE SLAB AND COMPACT TO 95% MMDD.
2. MARK OUT THE SITE
3. EXCAVATE THE PIT AND THE TRENCH.
4. INSTALL THE CONDUITS.
5. PLACE THE 5% CEMENT STABILISED SAND AND ALLOW FOR IT TO REACH THE REQUIRED STRENGTH.
6. INSTALL THE PRECAST SLAB. REFER DRAWING S02-01-05-14.
7. GROUT THE CONDUIT ENTRY OPENING AND CUT OFF THE CONDUITS 30mm ABOVE THE GROUT. ALL LIFTING ANCHORS TO BE GROUTED OR CONCRETE FILLED TO BE FLUSH WITH CONCRETE SLAB FACE.
8. INSTALL THE RM6 RING MAIN UNIT.
9. BACKFILL THE PIT AND THE REMAINING TRENCH LENGTH.
10. INSTALL CABLES & TERMINATIONS.
11. INSTALL THE EARTH APRON. REFER DRAWINGS S02-02-05-06 AND S02-02-06-33.

						PowerWater			NORTHERN TERRITORY			POWER STANDARD DRAWING		
						C.C. DEC'21 B.V. A.N. C.C. JUL'21 B.V. B.C. C.C. MAR'21 B.V. B.C.			DES - DRN C.COPPINS CKD B.VANDERSTELT APPD B.CHEUNG SCALE AS SHOWN ISSUED MARCH'2021 ALL DIM. IN mm			CIVIL, SCHNEIDER RM6 RING MAIN UNIT CABLE ENTRY AND FOUNDATION DETAILS CONSTRUCTION SEQUENCE SHEET 4 OF 4		
AMENDMENTS						DRAFTING STANDARD TO A.S.1100			CAD PRODUCT - DO NOT AMEND MANUALLY			AMDT		