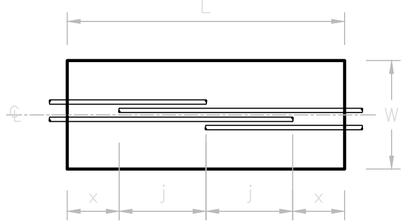
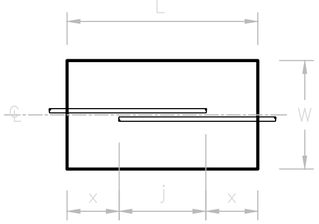
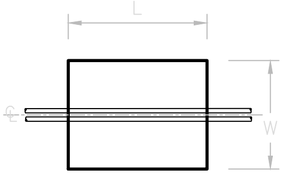
	HV CABLE	LV CABLE	LV CABLE	SERVICE
	≤400mm²	≤300mm²	≤120mm²	≤35mm²
j	2.0m	1.5m	1.0m	0.8m
x	1.5m	1.0m	0.75m	0.35m
y	1.0m	0.75m	0.5m	0.25m



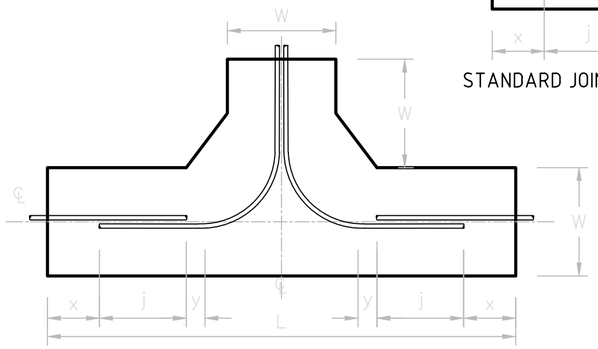
STANDARD JOINTING PIT FOR 2 x JOINTS



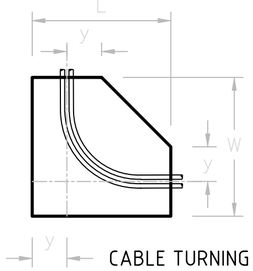
STANDARD JOINTING PIT FOR 1 x JOINT



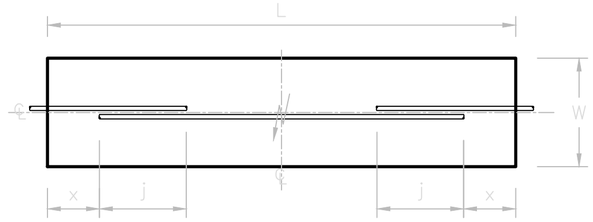
CABLE HAULAGE PIT



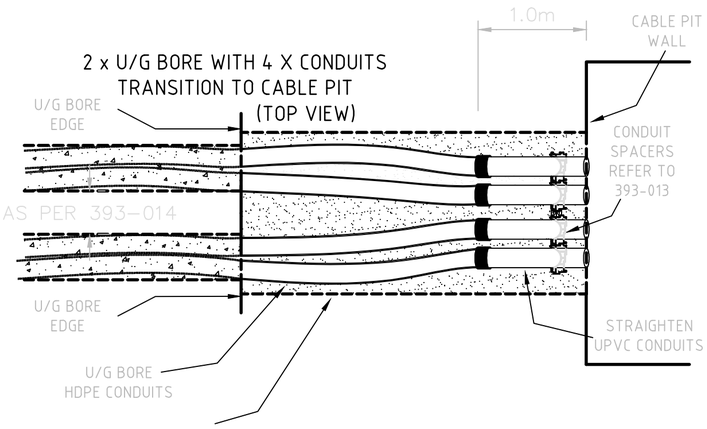
3 WAY CABLE JUNCTION JOINTING / HAULAGE PIT

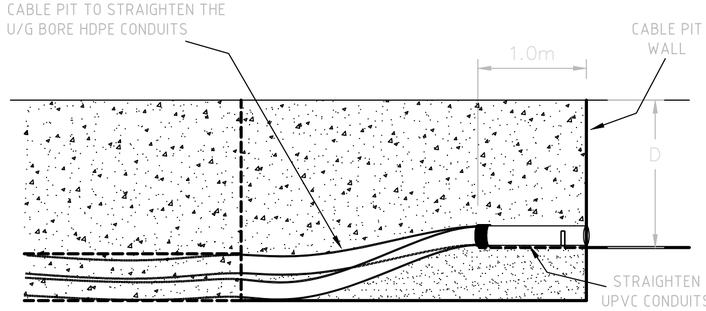


CABLE TURNING HAULAGE PIT



CABLE FAULT JOINTING PIT



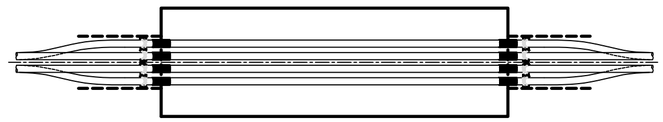


2 x U/G BORE WITH 4 X CONDUITS TRANSITION TO CABLE PIT (SIDE VIEW), NOTE 12

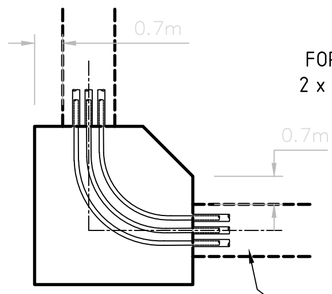
PIT DIMENSIONS FOR MAXIMUM 2 CABLES					
TYPE OF PIT	LEGEND	HV	LV		SERVICE
		≤400mm²	≤300mm²	≤120mm²	≤35mm²
CABLE TURNING HAULAGE PIT	LENGTH (L)	3500	2000	1500	1000
	WIDTH (W)	3500	2000	1500	1000
	DEPTH (D)	1000	850		750
CABLE HAULAGE PIT	LENGTH (L)	3500	2000	1500	1000
	WIDTH (W)	2000	1500		600
	DEPTH (D)	1000	850		750
STANDARD JOINT PIT (FOR 1 x JOINT)	LENGTH (L)	5000	3500	2500	1500
	WIDTH (W)	2000	1500		600
	DEPTH (D)	1000	850		750
STANDARD JOINT PIT (FOR 2 x JOINTS)	LENGTH (L)	7000	5000	3500	2300
	WIDTH (W)	2000	1500		600
	DEPTH (D)	1000	850		750
3 WAY CABLE JUNTION JOINTING / HAULAGE PIT	LENGTH (L)	12000	8000	5300	3000
	WIDTH (W)	2000	1500		600
	DEPTH (D)	1000	850		750
CABLE FAULT JOINTING PIT	LENGTH (L)	15000	9000	6500	4500
	WIDTH (W)	2000	1500		600
	DEPTH (D)	1000	850		750

SUITE OF CABLE PIT DRAWINGS TABLE		
DRAWING NO.	SHEET NO.	DESCRIPTION
394-021	1	CABLE HAULAGE PIT (FORMED CONCRETE)
394-022	2	CABLE HAULAGE & JOINT PIT (FORMED CONCRETE)
394-023	3	CABLE HAULAGE & JOINT PIT EXCAVATION DETAILS (NATURAL GROUND)
394-024	4	CABLE HAULAGE & JOINT PIT (NATURAL GROUND)
394-025	5	CABLE HAULAGE & JOINT PIT DRAWING NOTES

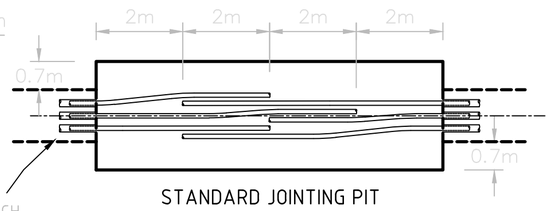
NOTES:
1. FOR DETAILED NOTES, REFER TO EVOENERGY DRAWING 394-025.
2. UNLESS INDICATED, ALL DIMENSIONS ARE IN MILLIMETRES AND ARE MINIMUM REQUIREMENTS.
3. ON SITE VARIATIONS SHALL BE APPROVED BY EVOENERGY's AUTHORISED OFFICER.
4. EVOENERGY's AUTHORISED OFFICER CAN REQUEST/ALLOW A DIFFERENT DIMENSIONED PIT FOR PROJECT/SITE SPECIFIC REASONS. SITE/PROJECT SPECIFIC DRAWINGS MAY NEED TO BE DRAWN FOR ANY VARIATIONS FROM THE OPTIONS DETAILED ON THIS DRAWING.
5. PITS ARE TO BE CENTERED AROUND, FAULT OR JOINT LOCATION, CUT IN POINT AND/OR CABLE HAULAGE ROUTE.
6. PITS WHERE CABLES CHANGE DIRECTION, HAVE BEEN DESIGNED WITH OFFSET TO ALLOW ADEQUATE WORKING SPACE.
7. BASED ON SITE ASSESSMENT, THE PIT LENGTH MAY NEED TO BE INCREASED AND WILL BE ADVISED BY EVOENERGY's AUTHORISED OFFICER.
8. FOR EXISTING CABLES, PITS MUST BE EXCAVATED 100mm BELOW THE BOTTOM OF THE CABLES / CONDUITS.
9. THE MINIMUM PIT DEPTH AS NOTED IN PIT DIMENSIONS TABLE MAY BE INCREASED TO MATCH THE EXISTING CABLE TRENCH DEPTH.
10. THE PIT CAN BE COVERED WITH REMOVABLE CONCRETE PAVERS OF MAXIMUM 15kg EACH WITH A FACILITY FOR MECHANICAL LIFTING.
11. EFFORTS MUST BE MADE TO LOCATE THE JOINT PIT WITH MINIMUM INTERRUPTION OF OTHER SERVICES WHERE POSSIBLE OTHERWISE:
    - 11.1. WHERE THE JOINT PIT EXCAVATIONS RESULT IN EXISTING CABLES BEING EXPOSED, THE PIT SHALL BE BACKFILLED WITH APPROVED THERMAL BEDDING SAND TO PROVIDE A MINIMUM COVER OF 200mm WHENEVER THE PIT IS UNATTENDED.
    - 11.2. IF EXPOSED GAS ASSETS ARE LOCATED WITHIN THE JOINTING PITS, AND WHERE SITE CONDITIONS ALLOW, A SECOND EXIT POINT MUST BE PROVIDED BY WAY OF STEPS OR A RAMP. IF EXISTING INFRASTRUCTURE RESTRICTS SPACE, A LADDER CAN BE USED FOR ALTERNATE EXIT.
    - 11.3. ADDITIONAL LENGTH AND WIDTH MAY BE REQUIRED FOR ADDITIONAL SERVICES IN THE JOINT PIT.
12. CONDUITS AT THE CABLE ENTRY AND EXIT TO THE PIT MUST BE ALIGNED WITH EACH OTHER WITH NO DEVIATION GREATER THAN 100mm, TO ENSURE THE CABLES ARE STRAIGHT AND PARALLEL AS THEY PASS THROUGH THE PIT, THAT IS THE CENTER LINE ON CONDUITS IS ALIGNED HORIZONTALLY AND VERTICALLY TO 100mm.
13. UNDER BORE HDPE CONDUIT MUST TRANSITION TO A FLAT & LEVEL ARRANGEMENT AND STRAIGHTENED USING 150mm UPVC CONDUITS UTILISING CONDUIT SPACERS, NO LESS THAN 1.0m ON THE APPROACH TO CABLE PITS.
14. FOR 3 OR MORE CABLES, ALLOW 1m SEPARATION BETWEEN OUTERMOST CABLE AND PIT WALL. PROJECT OFFICER TO CONFIRM THE DIMENSIONS BASED ON THE CABLE SIZE, SEPARATION AND TRENCH SIZE.
15. SPARE CONDUITS FOR FUTURE USE ARE TO BE INSTALLED THROUGH ALL CABLE HAULING PITS. ALL CONDUITS ARE TO TRANSITION TO FLAT LAID ARRANGEMENT USING SPACERS, WHEN INSTALLED IN A CABLE JOINTING PIT
16. WAE DRAWING ARE TO RECORD THE FOUR CORNERS OF ALL CABLE PITS AS WELL AS X,Y,Z OF ALL CABLES, JOINTS AND CONDUITS.
17. FOR ADDITIONAL INFORMATION, REFER TO THE SUITE OF CABLE PIT DRAWINGS TABLE AS PER THEIR DESCRIPTION.



FOR FUTURE WORKS, CONDUITS CONTINUED IN THE PIT (NOTE 14)
2 x 2 CONDUITS ARRANGEMENT TRANSITIONED TO 1 x 4 CONDUITS



CABLE TURNING HAULAGE PIT FOR 3 OR MORE CABLES



STANDARD JOINTING PIT OR CABLE HAULAGE PIT FOR 3 OR MORE CABLES

No	Revision	Date	Checked	Approved

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Drawn: J. Ryan	Designed: N. Azizi		
Checked: J. Primmer	24/09/2024		
Approved: N. Azizi	24/09/2024		
Project No:			

CABLE HAULAGE & JOINT PIT EXCAVATED NATURAL GROUND PIT DIMENSION REQUIREMENTS, CABLE & JOINT ARRANGEMENT

Scale: NTS	Date: 24/09/2024	Sheet No: 4 OF 5
Work Pack No:	File:	
Status: Current		
A2	394-024	Rev

Date Plotted: 2/10/2024 Plot Style: Electrical.ctb