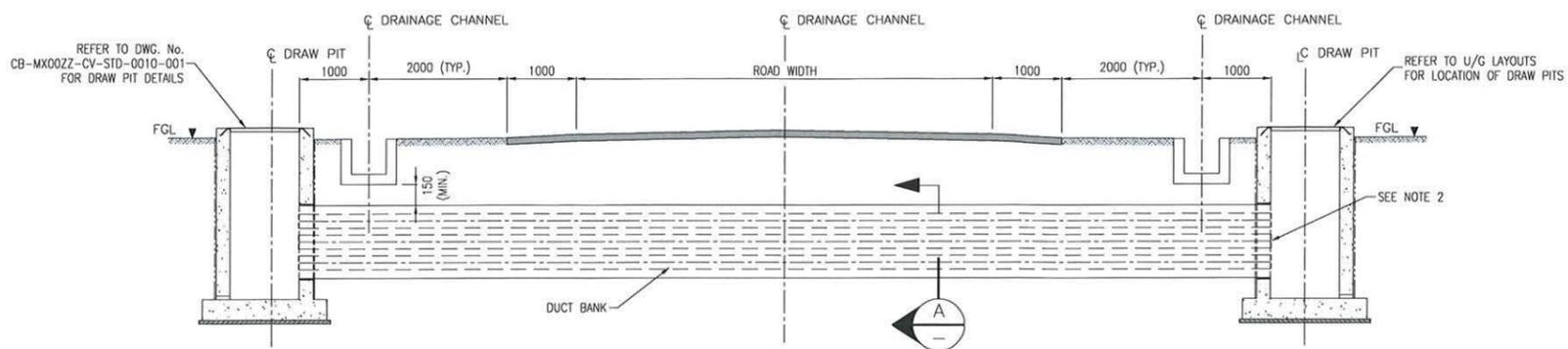
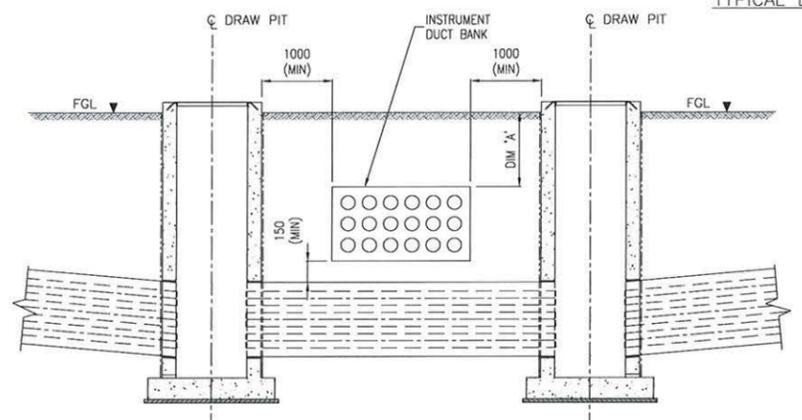


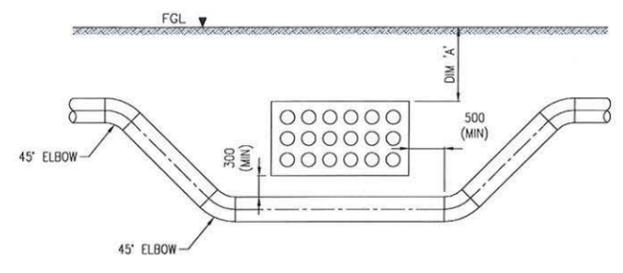
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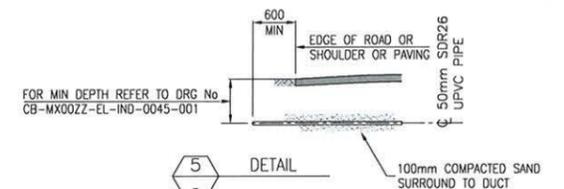
1
DETAIL
TYPICAL DUCT BANK ROAD CROSSING
SCALE 1:50



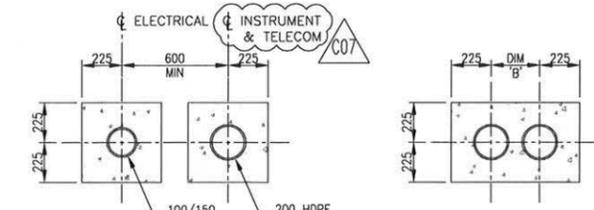
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DETAIL
TYPICAL DETAIL FOR CROSSING DUCT BANKS
SCALE 1:50



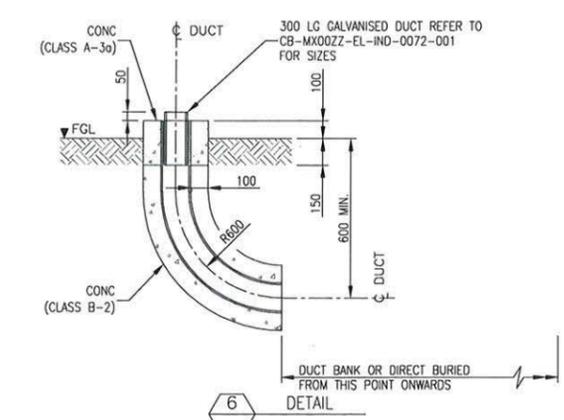
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DETAIL
TYPICAL DETAIL FOR DUCT BANK CROSSING PRESSURE PIPE
SCALE 1:50



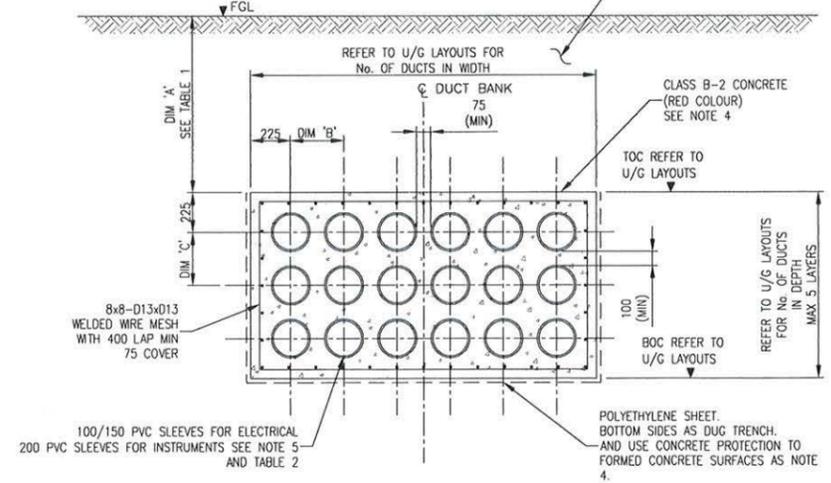
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DETAIL
TYPICAL DETAIL FOR FARTHING DUCT ROAD CROSSING
SCALE 1:50



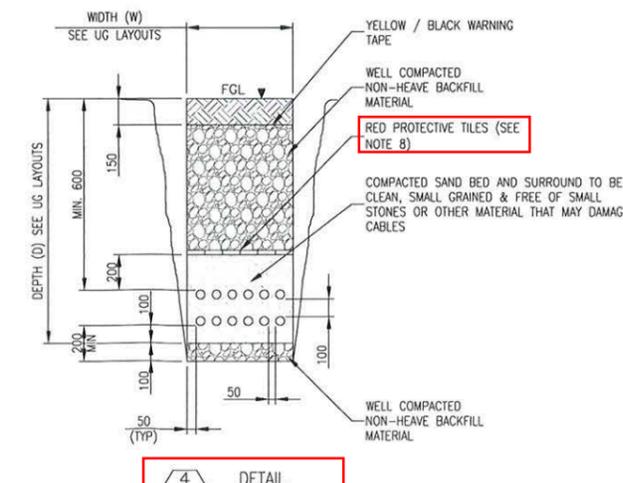
4
TYPICAL SINGLE DUCT SECTION
SCALE 1:20
TYPICAL DOUBLE DUCT SECTION
SCALE 1:20



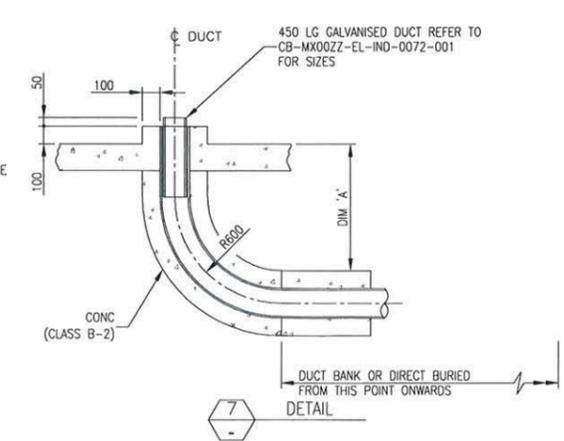
6
DETAIL
TYPICAL DETAIL OF CABLE RISER IN UNPAVED AREAS
SCALE 1:20



A
SECTION
SCALE 1:20



4
DETAIL
TYPICAL DIRECT BURIED CABLE
SCALE 1:20



7
DETAIL
TYPICAL DETAIL OF CABLE RISER IN PAVED AREAS
SCALE 1:20

TABLE 1
MINIMUM DEPTH TO T.O.C. DUCTBANK U.N.O. ON U/G LAYOUTS

AREA	DIMENSION 'A' (mm)	
	ROADS AND EMBANKMENTS	SUBJECT TO VEHICLE LOADS NOT IN ROADWAY
MX14 (BVR A6)	600	400
MX17 (BVR A7)	600	400
MX20 (BVR A8)	600	400
MX22 (BVR A9)	600	400
MX24 (BVR A10)	600	400
MX33 (BVR G7)	600	400
MX40/41	600	400
MX53	600	400
MX71	600	400
MX74	800	800
MX77	1000	1000
MX81	800	800

TABLE 2
DUCT DETAILS

DUCT NOM. SIZE	O/A DIA.	MATERIAL	MIN WALL THICKNESS (mm)	DIM 'B'	DIM 'C'
100	114	PVC	2.1	175	200
150	168	PVC	2.9	225	250
200	200	HDPE	12.9 (SDR 15.5)	275	300

- NOTES
- WHERE U/G CABLES ARE ROUTED ACROSS ROADWAYS THEY SHALL BE INSTALLED IN DUCTS ENCASED IN CONCRETE (RED COLOURED).
 - MINIMUM HORIZONTAL SEPARATION DISTANCE OF 600mm SHALL BE MAINTAINED BETWEEN ELECTRICAL AND INSTRUMENTATION DUCT BANKS, IF THE RUNS ARE PARALLEL.
 - CONSIDERATION SHALL BE GIVEN FOR PRE-CASTING DUCT BANKS, WHEREVER POSSIBLE AND ECONOMICAL TO DO SO. IN CASE OF PRE-CAST DUCT BANKS, CONSTRUCTION CONTRACTOR IS RESPONSIBLE TO PROVIDE SUITABLE LIFTING ARRANGEMENTS.
 - FOR PROTECTION OF CONCRETE SURFACES, SEE NOTE 5.0 ON DRG. No. CB-MX00ZZ-CV-STD-0001-001.
 - FOR DUCT SIZES AND ITS ARRANGEMENTS, REFER TO DUCT BANK SCHEDULE.
 - ALL DUCTS SHALL BE SPIGOT AND SOCKET TYPE, SOLVENT WELDED JOINTS.
 - CABLES LAID DIRECT IN THE GROUND SHALL BE PROTECTED BY RED CABLE WARNING TILES LOCATED 200mm ABOVE THE CABLES.

DRAWING UPDATED AND REVISED PER DCN No. 1588

HOLDS

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
CB-MX00ZZ-CV-STD-0001-001	CONCRETE WORK GENERAL NOTES, ABBREVIATIONS & LEGEND
CB-MX00ZZ-CV-STD-0001-002	GRADING, PAVING, ROADS & U/G SERVICES, ABBREVIATIONS & LEGEND
CB-MX00ZZ-CV-STD-0010-001 CB-MX00ZZ-CV-STD-0010-002	INSTRUMENT / TELECOM AND ELECTRICAL CABLE DRAW PIT DETAILS
CB-MX71ZZ-CV-SCH-0001-005	MX71 CABLE DRAWPIT SCHEDULE
CB-MX77ZZ-CV-SCH-0001-005	MX77 CABLE DRAWPIT SCHEDULE
CB-MX81ZZ-CV-SCH-0001-005	MX81 CABLE DRAWPIT SCHEDULE
CB-MX00ZZ-EL-IND-0069-001	ELECTRICAL INSTALLATION DIAGRAM - P1
CB-MX00ZZ-EL-IND-0071-001	ELECTRICAL INSTALLATION DIAGRAM - P3

REV	DATE	DESCRIPTION	DRN	CHK	APP	CLT
C07	22/06/15	RE-ISSUED FOR CONSTRUCTION	LER	AK	AT	CME
C06	10/04/15	RE-ISSUED FOR CONSTRUCTION	SD	AK	AT	
C05	27/02/15	RE-ISSUED FOR CONSTRUCTION	SD	RG	AT	CME
C04	05/02/15	RE-ISSUED FOR CONSTRUCTION	MS	RG	AT	CME
C03	24/11/14	RE-ISSUED FOR CONSTRUCTION	SD	RG	SUM	CME
C02	23/04/14	RE-ISSUED FOR CONSTRUCTION	ST	ATM	SUM	CME
C01	31/10/13	AFC	LER	ATM	SUM	CME



SOUTH CAUCASUS PIPELINE EXPANSION PROJECT



TITLE: STANDARD DETAILS
TYPICAL ROAD CROSSING FOR ELECTRICAL, INSTRUMENTATION & TELECOMMUNICATION CABLES

SCALE (A1): AS SHOWN

DOCUMENT ID:

CONTRACT No:

CLIENT CONTRACT No:

DRAWING No. CB-MX00ZZ-CV-STD-0012-001

REV C07

