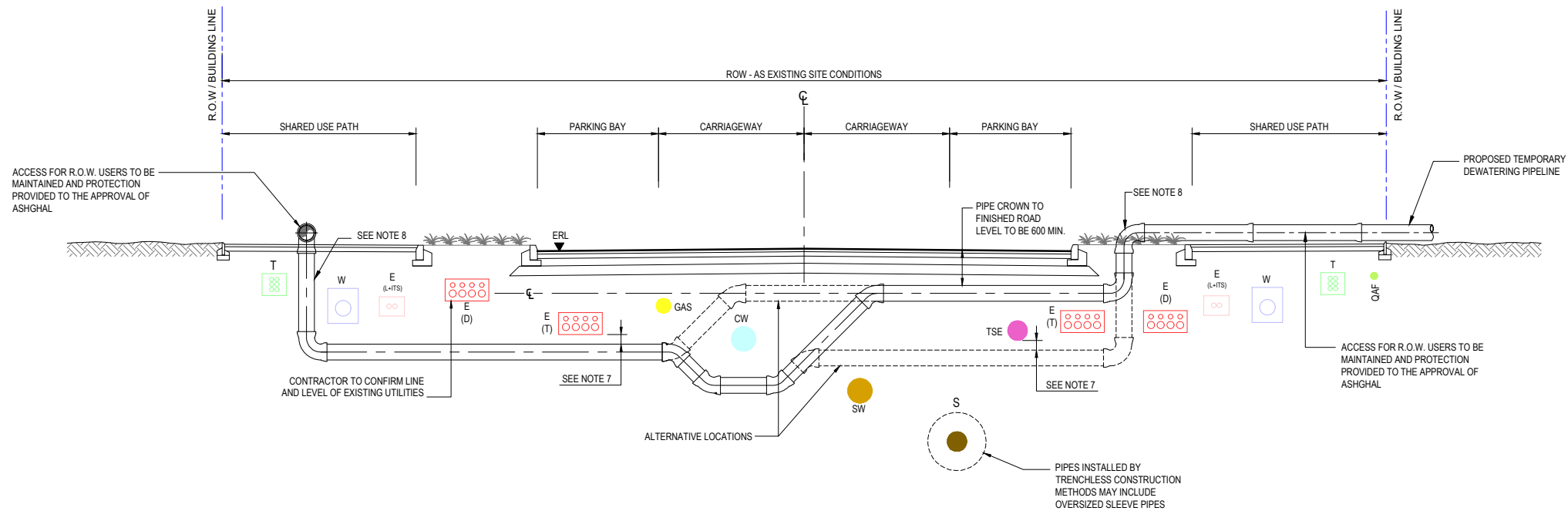
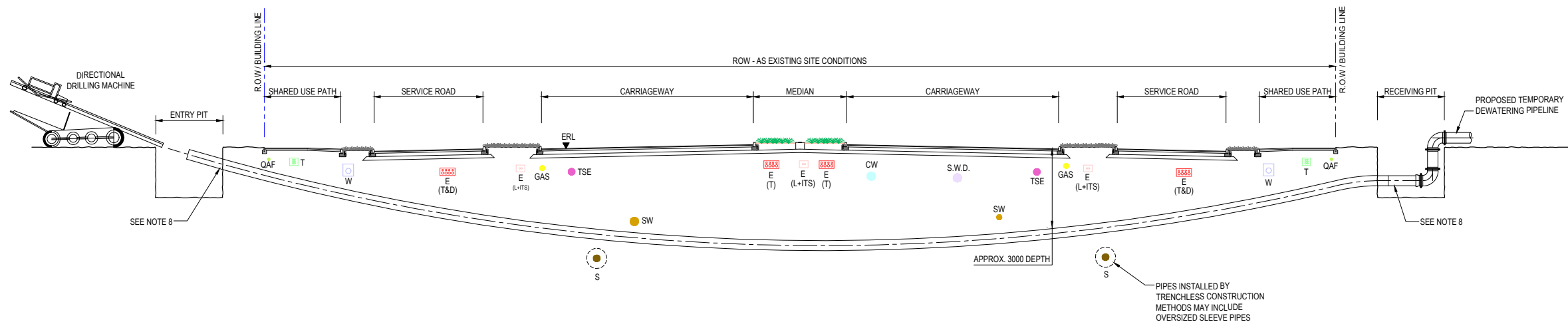




TEMPORARY ROAD CROSSING - OPEN CUT
(LOW TRAFFIC VOLUME ROADS AND ROADS MORE THAN FIVE YEARS SINCE CONSTRUCTION)



TEMPORARY ROAD CROSSING - DIRECT DRILLING (HDD)
(HIGH TRAFFIC VOLUME ROADS AND ROADS LESS THAN FIVE YEARS SINCE CONSTRUCTION)

NOTES:

- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH CURRENT Q.C.S. UNLESS OTHERWISE AGREED WITH ASHGHAL.
- THIS DRAWING IS TO BE USED ONLY AS A GUIDE AND DETAILS SHOWN ARE INDICATIVE ONLY.
- THE CONTRACTOR SHALL PREPARE PROJECT SPECIFIC DETAILED DRAWINGS ACCORDING TO THE SPECIFICATIONS TOGETHER WITH METHOD STATEMENTS AND SUBMIT THEM FOR THE APPROVAL OF ASHGHAL PRIOR TO CONSTRUCTION.
- DETAILS TO BE PROVIDED BY THE CONTRACTOR AS PART OF ITS SUBMISSION TO INCLUDE BUT NOT LIMITED TO:
 - PLAN SHOWING LOCATION OF CROSSING
 - LOCATION OF EXISTING UNDERGROUND SERVICES AND CLASH ANALYSIS (LINE AND LEVEL) INCLUDING OVERBREAK FOR DRILLING
 - DETAILS OF OVER GROUND PROTECTION TO PIPEWORK
 - ROW BOUNDARIES
 - CONSTRUCTION SEQUENCE
 - PIPE HYDRAULIC AND STRUCTURAL CALCULATIONS
 - PIPE JOINT RESTRAINT METHODOLOGY INCLUDING ANY THRUST BLOCKS
 - MOT PLANS
 - CONFIRMATION OF EXISTING PAVEMENT CONSTRUCTION
 - ASSESSMENT OF ANTICIPATED MAXIMUM SETTLEMENT FOR DIRECTIONAL DRILLING IN SOFT GROUND OR MADE GROUND. PROGRAMME AND METHODOLOGY FOR MONITORING SETTLEMENT.
 - DETAILS OF DISCHARGE POINTS AND APPROVAL OF CONCERNED AUTHORITIES.
 - FULL REINSTATEMENT DETAILS.
- FOR TRENCH REINSTATEMENT DETAILS REFER TO THE AMENDMENT TO THE CODE OF PRACTICE AND SPECIFICATION FOR ROAD OPENINGS IN THE HIGHWAY.
- MINIMUM CLEARANCE BETWEEN UTILITIES AND DEWATERING PIPELINE TO BE 200. CONTRACTOR TO PROVIDE PERMANENT SUPPORT/CONCRETE PROTECTION TO UTILITY.
- UPON COMPLETION OF THE WORKS, THE CONTRACTOR SHALL REMOVE THE TEMPORARY DEWATERING SYSTEM AND ALL BURIED PIPEWORK WITHIN 600mm OF THE FINISHED GROUND LEVELS TO THE SATISFACTION OF ASHGHAL. THE CONTRACTOR SHALL PLUG THE ENDS OF THE TEMPORARY ROAD CROSSING DUCTS WITH 30 MPa CONCRETE FOR A MINIMUM LENGTH OF 1 METRE AND REINSTATE PITS.

LEGEND:

CW	CHILLED WATER
ERL	EXISTING ROAD LEVEL
E(D)	ELECTRICITY (DISTRIBUTION)
E (T)	ELECTRICITY (TRANSMISSION)
E	ELECTRICITY
(L+ITS)	(STREET LIGHTING + INTELLIGENT TRAFFIC SYSTEM)
GAS	GAS
S	SEWERAGE
SW	SURFACE WATER
T	TELECOMMUNICATIONS
T(QAF)	TELECOMMUNICATIONS (QATAR ARMED FORCES)
TSE	TREATED SEWERAGE EFFLUENT
W	WATER

Rev.	Date	Revision Details	Appd.
0	28JUN15	ISSUED FOR USE	

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PA PROJECTS AFFAIRS

QCS Section:
Section 1 - General
Part 24 - Construction Dewatering

Drawing Title:

TEMPORARY ROAD CROSSING DETAILS

Approved:	Sheet No: 1 OF 1
Date: JUNE 2015	Scale: N.T.S.
Drawing Number: SD 1-24-101	Revision: 0