

## STANDARD AND EXAMPLE DRAWINGS

DRAWING	ISSUE	TITLE
		GENERAL
CA01-1-1	Е	EXAMPLE CATCHMENT PLAN - DESIGN BASIS
CA01-1-2	D	EXAMPLE PRESSURE MAIN CHARACTERISTIC CURVE
CA01-1-3-1	С	TYPE 10, 40 AND 90 PUMPING STATIONS
		COMMON SPECIFICATION NOTES – SHEET 1 OF 2
CA01-1-3-2	В	TYPE 10, 40 AND 90 PUMPING STATIONS
		COMMON SPECIFICATION NOTES – SHEET 2 OF 2
CA01-1-4	C	TYPE 10, 40, 90 AND 180 PUMPING STATIONS AND VALVE
		PITS
		PIPE SUPPORT STAND, VALVE SPINDLE EXTENSION &
		GUIDE DETAILS
		SITE PLANS AND ACCESS ROAD
CA01-3-1	L	TYPE 40 PUMPING STATION WITH VALVE PIT
~		SITE PLAN
CA01-3-2	K	TYPE 90 PUMPING STATION
G 1 0 1 2 2		SITE PLAN
CA01-3-3	I	TYPE 10 & TYPE 40 PUMPING STATION - NO VALVE PIT
CA01-3-5	A	SITE PLAN PUMPING STATION ACCESS ROAD – HAMMERHEAD ROAD
CA01-3-3	A	
		FOR 12.5M TRUCK – EXAMPLE DRAWING  EMERGENCY STORAGE
CA01-5-1	G	EMERGENCY STORAGE TANK DETAILS
CA01-5-3	G	TYPE 40 PUMPING STATIONS AND SMALLER EMERGENCY
		OVERFLOW DETAILS
CA01-5-4	G	TYPE 90 PUMPING STATIONS
		EMERGENCY OVERFLOW DETAILS
CA01-5-5	D	PUMPING STATIONS WITH PUMP RATE NOT EXCEEDING
		14L/s, EMERGENCY OVERFLOW DETAILS – BUBBLE UP
		ACCESS CHAMBER DISCHARGE
CA01-5-6	E	TYPE 10 AND TYPE 40 PUMPING STATIONS
		AIR VENT ARRANGEMENT
CA01-5-7	F	TYPE 90 PUMPING STATIONS
		AIR VENT ARRANGEMENT
CA01-5-10	В	TYPE 10 AND TYPE 40 PUMPING STATIONS
		AIR VENT ARRANGEMENT – FENCED SITE
~	T =	TYPE 6 PUMPING STATION
CA01-8-1	F	GENERAL ARRANGEMENT AND DETAILS
		THE 10 DESCRIPTION OF A TROOP
G 1 0 1 0 6		TYPE 10 PUMPING STATION
CA01-9-6	G	PUMP GUIDE RAIL SUPPORT, LIFTING CHAIN HOOK &
CA01 0 0	T	LIFTING CHAIN DETAILS – WET WELL  INLET DIDE LITTRASONIC SUPPORT & LANVARD
CA01-9-8	I	INLET PIPE, ULTRASONIC SUPPORT & LANYARD DETAILS
CA01 0 20	17	
CA01-9-20	K	NO VALVE PIT - GENERAL ARRANGEMENT
CA01-9-21	K	NO VALVE PIT - GENERAL ARRANGEMENT -
		DECONTACTOR



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CA01-9-22	F	NO VALVE PIT - STRUCTURAL DETAILS – PRECAST
CA01-9-23-1	K	COMPONENTS PRECAST SLAB AND COVER – TEMPORARY
CAU1-9-23-1	K	GUARDRAIL SYSTEM
CA01-9-23-2	I	PRECAST SLAB AND COVER – PERMANENT
C1101 > 20 2		GUARDRAIL SYSTEM
CA01-9-24	Е	NO VALVE PIT - ELECTRICAL SLAB DETAILS
CA01-9-25	F	NO VALVE PIT - MISCELLANEOUS STEEL
		FABRICATION DETAILS
CA01-9-26	Е	NO VALVE PIT - ELECTRICAL SLAB DETAILS –
		DECONTACTOR
CA01-9-27	F	NO VALVE PIT - STRUCTURAL DETAILS – PRECAST
C 4 0 1 0 20	Б	COMPONENTS - DECONTACTOR
CA01-9-28	E E	CONTROL AND ALARM HOLE COVERS
		PUMPING STATION - PREVENTION OF FALLS
CA01-9-29	G	GRATING ARRANGEMENT
CA01-9-30	F	GRATING DETAILS
CA01-9-31	C	WITH TEMPORARY GUARDRAIL SYSTEM – GUARDRAIL DETAILS
CA01-9-32	D	PERMANENT GUARDRAIL SYSTEM – GUARDRAIL
C/101 > 52		DETAILS
TYPE 4	40 PUMP	ING STATION - DN150 PIPEWORK WITH VALVE PIT
CA01-10-2-1	L	GENERAL ARRANGEMENT - DN150 PIPEWORK
CA01-10-5-1	Н	STRUCTURAL DETAILS - PRECAST COMPONENTS
CA01-10-6-1	J	PRECAST SLABS AND COVERS – TEMPORARY
		GUARDRAIL SYSTEM
CA01-10-6-2	С	PRECAST SLABS AND COVERS – TEMPORARY
		GUARDRAIL - REINFORCEMENT
CA01-10-6-3	E	PRECAST SLABS AND COVERS – PERMANENT
G 1 01 10 6 4		GUARDRAIL SYSTEM
CA01-10-6-4	C	PRECAST SLABS AND COVERS – PERMANENT
CA01-10-7-1	F	GUARDRAIL - REINFORCEMENT  ELECTRICAL SLAB DETAILS
CA01-10-7-1	G	VALVE, CONTROL AND ALARM HOLE COVERS
CA01-10-9-1	Н	MISCELLANEOUS STEEL FABRICATION DETAILS
CA01-10-10-1	F	PUMP GUIDE RAIL SUPPORT, LIFTING CHAIN HOOK &
CA01-10-11-1	1	LIFTING CHAIN DETAILS – WET WELL
CA01-10-12-1	J	VALVE PIT DRAIN, INLET PIPE & LANYARD DETAILS
CA01-10-13-1	D	ELECTRICAL CABINET SLAB FOR MORE THAN 4
		CABINETS
CA01-10-18-1	G	GENERAL ARRANGEMENT – GUIDE RAILS ALTERNATIVE
		ARRANGEMENT
r	ГҮРЕ 40	PUMPING STATION - PREVENTION OF FALLS
CA01-10-14-1	F	TEMP AND PERM GUARDRAIL SYSTEM – GRATING
		ARRANGEMENT
CA01-10-14-2	A	VALVE PIT – TEMP AND PERM GUARDRAIL SYSTEM –
		GRATING ARRANGEMENT
CA01-10-15-1	F	WITH TEMP OR PERM GUARDRAIL SYSTEM – GRATING
		DETAILS
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CA01-10-16-1	С	WITH TEMPORARY GUARDRAIL SYSTEM – GUARDRAIL DETAILS
CA01-10-17-1	Е	PERMANENT GUARDRAIL SYSTEM – GUARDRAIL DETAILS
TYPE 40	PUMPINO	G STATION - DN100 PIPEWORK WITHOUT VALVE PIT
CA01-10-20-1	J	GENERAL ARRANGEMENT – DN100 PIPEWORK
CA01-10-21-1	F	STRUCTURAL DETAILS – PRECAST COMPONENTS
CA01-10-22-1	G	PRECAST SLABS AND COVERS – TEMPORARY
		GUARDRAIL SYSTEM
CA01-10-22-2	E	PRECAST SLABS AND COVERS – PERMANENT
~		GUARDRAIL SYSTEM
CA01-10-23-1	D	ELECTRICAL SLAB DETAILS
CA01-10-24-1	Е	MISCELLANEOUS STEEL FABRICATION DETAILS
TYPE 40 PU	UMPING	STATIONS WITH ELECTRICAL DECONTACTOR DN150 PIPEWORK AND VALVE PIT
CA01-15-3-1	G	STRUCTURAL DETAILS - PRECAST COMPONENTS
CA01-15-7-1	D	WITH ELECTRICAL DECONTACTOR 22KW TO 37KW
		ELECTRICAL SLAB DETAILS
CA01-15-8-1	I	WITH ELECTRICAL DECONTACTOR 22KW TO 37KW
		GENERAL ARRANGEMENT – DN150 PIPEWORK
TYPE 40 P	UMPING	STATION WITH ELECTRICAL DECONTACTOR DN100
1112 101	01/11/11/0	PIPEWORK WITHOUT VALVE PIT
CA01-15-20-1	I	ELECTRICAL DECONTACTOR UP TO 22KW
		GENERAL ARRANGEMENT NO. 1 – DN100 PIPEWORK
CA01-15-21-1	I	ELECTRICAL DECONTACTOR >22KW TO 37KW
		GENERAL ARRANGEMENT NO. 2 – DN100 PIPEWORK
CA01-15-22-1	Е	STRUCTURAL DETAILS – PRECAST COMPONENTS
CA01-15-24-1	D	WITH ELECTRICAL DECONTACTOR UP TO 22KW
		ELECTRICAL SLAB DETAILS
CA01-15-25-1	D	WITH ELECTRICAL DECONTACTOR >22KW TO 37KW
		ELECTRICAL SLAB DETAILS
		TYPE 90 PUMPING STATIONS
CA01-5-8-1	В	ODOUR CONTROL DETAILS
CA01-20-1-1	K	PUMP WELL CAST INSITU – GENERAL ARRANGEMENT – SHEET 1 OF 2
CA01-20-1-2	G	PUMP WELL CAST INSITU – GENERAL ARRANGEMENT – SHEET 2 OF 2
CA01-20-3-1	G	PUMP WELL CAST INSITU – STRUCTURAL DETAILS
CA01-20-5-1	Е	PUMP WELL CAST INSITU – REINFORCEMENT DETAILS
CA01-20-7-1	Е	VALVE PIT CAST INSITU – STRUCTURAL AND
		REINFORCEMENT DETAILS
CA01-20-9-1	G	PUMP GUIDE RAIL SUPPORT, LIFTING CHAIN HOOK & LIFTING CHAIN DETAILS
CA01-20-12-1	F	MSCL PIPE SPECIALS
CA01-20-14-1	Е	CONTROL AND ALARM HOLE COVERS
CA01-20-15-1	I	INLET PIPE, INLET TEE, VALVE PIT DRAIN, ULTRASONIC SUPPORT & LANYARD DETAILS
CA01-20-16-1	D	ELECTRICAL SLAB DETAILS

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CA01-20-17-1	F	INLET ACCESS CHAMBER DETAILS
CA01-20-18-1	D	DN200 BYPASS PUMPING PIPEWORK FOR TYPE 90
		PUMPING STATION – TYPICAL BYPASS PIT
		CONFIGURATION
CA01-20-20-1	F	PUMP WELL PRECAST – GENERAL ARRANGEMENT-
		SHEET 1 OF 2
CA01-20-20-2	F	PUMP WELL PRECAST – GENERAL ARRANGEMENT-
		SHEET 2 OF 2
CA01-20-21	D	PUMP WELL AND VALVE PIT PRECAST – STRUCTURAL
		DETAILS

TYPE 90 PU	IMPING S	STATIONS - PUMP WELL - PREVENTION OF FALLS
CA01-20-8-1 H	H	PUMP WELL - TOP SLAB WITH TEMPORARY
		GUARDRAIL SYSTEM - ARRANGEMENT
CA01-20-8-2 I	D	PUMP WELL - TOP SLAB WITH TEMPORARY
		GUARDRAIL SYSTEM - REINFORCEMENT
CA01-20-8-3	E	PUMP WELL – TOP SLAB WITH PERMANENT
		GUARDRAIL SYSTEM - ARRANGEMENT
CA01-20-8-4	E	PUMP WELL – TOP SLAB WITH PERMANENT
G + 0.1 .0 .1		GUARDRAIL SYSTEM - REINFORCEMENT
	C	GRATING ARRANGEMENT AND NOTES
	C	GRATING DETAILS
CA01-20-19-3	C	WITH TEMPORARY GUARDRAIL SYSTEM – GUARDRAIL DETAILS
CA01-20-19-4 H	E	WITH PERMANENT GUARDRAIL SYSTEM – GUARDRAIL
		DETAILS & NOTES
	-	STATIONS – VALVE PIT - PREVENTION OF FALLS
CA01-20-7-2	D	VALVE PIT – CIRCULAR – PRECAST SLAB AND COVERS
		- STRUCTURAL DETAILS - TEMPORARY GUARDRAIL
G + 0.1 .0	~	SYSTEM COMPANY OF THE
CA01-20-7-3	C	VALVE PIT – CIRCULAR – PRECAST SLAB AND COVERS
		– REINFORCEMENT – TEMPORARY GUARDRAIL SYSTEM
CA01-20-7-4 I	D	VALVE PIT - CIRCULAR - PRECAST SLAB AND COVERS
		- STRUCTURAL DETAILS - PERMANENT GUARDRAIL
		SYSTEM
CA01-20-7-5	C	VALVE PIT – CIRCULAR – PRECAST SLAB AND COVERS
		- REINFORCEMENT - PERMANENT GUARDRAIL
		SYSTEM
CA01-20-23-1 F	E	TEMP & PERM GUARDRAIL SYSTEM – GRATING ARRANGEMENT
CA01-20-24-1 I	E	WITH TEMP OR PERM GUARDRAIL SYSTEM – GRATING
		DETAILS
CA01-20-25-1 E	В	TEMPORARY GUARDRAIL SYSTEM – GUARDRAIL
C101 20 201		DETAILS CHAPPEAN SUSTEIN CHAPPEAN
CA01-20-26-1 I	D	PERMANENT GUARDRAIL SYSTEM - GUARDRAIL DETAILS
DDESCHDE MA	INCLAID	
PRESSURE MAINS (AIR/SCOUR/NON-RETURN VALVE AND FLOWMETER PIT ARRANGEMENTS)		
CA01-52-2 I	F	DN300 PRESSURE MAINS (OTHER THAN PE) - AIR VALVE
		ARRANGEMENT AND DETAILS

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CA01-52-3	F	DN375/400 PRESSURE MAINS (OTHER THAN PE) - AIR VALVE ARRANGEMENT AND DETAILS	
CA01-52-5	E	DN315, 355, 450, 560 & 630 PE PRESSURE MAINS - AIR VALVE ARRANGEMENT AND DETAILS	
CA01-53-1	A	DN125, 180, 315, 355 & 450 PE PRESSURE MAINS – SWING CHECK NON-RETURN VALVE ARRANGEMENT & DETAILS	
CA01-54-2	F	DN200 TO DN300 PRESSURE MAINS (OTHER THAN PE) - SCOUR VALVES - DEEP VALVE PIT (DEPTH TO IL 2.3M AND GREATER)	
CA01-54-3	F	DN200 TO DN300 PRESSURE MAINS (OTHER THAN PE) - SCOUR VALVES - SHALLOW VALVE PIT (DEPTH TO IL LESS THAN 2.3M)	
CA01-54-4	F	DN375/400 PRESSURE MAINS - SCOUR VALVES (OTHER THAN PE) - SHALLOW VALVE PIT (DEPTH TO IL LESS THAN 2.3M)	
CA01-54-5	F	DN375/400 PRESSURE MAINS - SCOUR VALVES (OTHER THAN PE) - DEEP VALVE PIT (DEPTH TO IL 2.3M AND GREATER)	
CA01-54-7	E	DN250 - DN630 PE PRESSURE MAINS - SCOUR VALVES - DEEP VALVE PIT (DEPTH TO IL 2.3M AND GREATER)	
CA01-54-8	E	DN250 TO DN630 PE PRESSURE MAINS - SCOUR VALVES - SHALLOW VALVE PIT (DEPTH TO IL LESS THAN 2.3M)	
CA01-56-2-1	В	TYPE 90 PUMPING STATIONS, MOBILE PUMP CONNECTION AND AIR RELEASE POINT CANCELLED (REFER TO CA01-020-018)	
CA01-57-1-1	С	MAGNETIC FLOW METER INSTALLATION – SHALLOW ARRANGEMENT	
CA01-57-2-1	С	MAGNETIC FLOW METER INSTALLATION – DEEP ARRANGEMENT	
PRESSURE MA	INS (AIR	AND SCOUR VALVE ARRANGEMENTS - NO PITS)	
CA01-52-1-1	D	DN80 TO DN250 PRESSURE MAINS –OTHER THAN PE - AIR RELEASE POINT ARRANGEMENT & DETAILS	
CA01-52-4-1	В	DN125, DN180 & DN250 PE PRESSURE MAINS - AIR RELEASE POINT ARRANGEMENT & DETAILS	
CA01-54-1-1	Е	DN80 TO DN150 PRESSURE MAINS (OTHER THAN PE) – SCOUR POINTS - ARRANGEMENT WITHOUT VALVE PIT (DEPTH TO IL LESS THAN 4M)	
CA01-54-6-1	С	DN125 & DN180 PE PRESSURE MAINS - SCOUR POINTS - ARRANGEMENT WITHOUT VALVE PIT (DEPTH TO IL LESS THAN 4M)	
CA01-56-1-1	D	TYPE 10 AND TYPE 40 PUMPING STATIONS, MOBILE PUMP CONNECTION AND AIR RELEASE POINT	
CA01-56-4-1	В	PRESSURE MAINS DN100 TO DN300 BYPASS PUMPING PIPEWORK – TYPICAL BYPASS PIT CONFIGURATION	
CA01-56-5-1	В	PRESSURE MAINS DN100 TO DN300 BYPASS PUMPING PIPEWORK – FABRICATION AND SLUICE VALVE INSTALLATION DETAILS	
		PRESSURE MAINS (PIPELINES)	



CA01-60-1-1	D	PRESSURE MAINS - DN375 AND SMALLER, THRUST BLOCK	
C/101-00-1-1		AND TRENCH REFILL DETAILS	
REDUCE	REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE		
CA01-70-1 -1	L	ARRANGEMENT AND INSTALLATION DETAILS -	
		FENCED SITE	
CA01-70-1-2	F	ARRANGEMENT AND INSTALLATION DETAILS -	
		UNFENCED SITE	
CA01-70-3-1	E	RPZ ENCLOSURE – CAGE FABRICATION	
E	EMERGENCY BACKUP GENERATOR - CONCRETE PAD		
CA01-80-1-1	В	STRUCTURAL DETAILS	
INLET SEWER SEALING DETAILS			
CA01-58-1-1	A	INLET SEWER SEALING DETAILS	
	PIPELINE STANDARD AND EXAMPLE DRAWINGS		
LJ01-2-1-1	С	PE PIPE TO PVC PIPE CONNECTION	
		PE PIPE SIZES DN125 TO DN450	
LJ01-3-1-1	В	PE PIPELINE FITTING CONFIGURATION	
		NOMINAL ECCENTRIC TEE DIMENSIONS	
LJ01-3-2	A	VARIOUS PS TYPES (DN225 PVC INLET PIPE EXAMPLE) –	
		INLET KNIFE GATE VALVE RETROFIT	
LJ01-4-1-1	В	TRENCHLESS INSTALLATION OF PRESSURE MAINS AT	
		CROSSINGS OF ROADS, RAILWAYS AND WATERWAYS -	
		WASTEWATER CONVEYANCE ONLY	

MARKER POST AND SIGNAGE STANDARD DRAWINGS		
KA76-1-1-1	F	ASSET IDENTIFICATION - MARKER POST
		TYPICAL DETAILS
KA76-1-2-1	G	PIPELINE - MARKER POST
		TYPICAL DETAILS

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