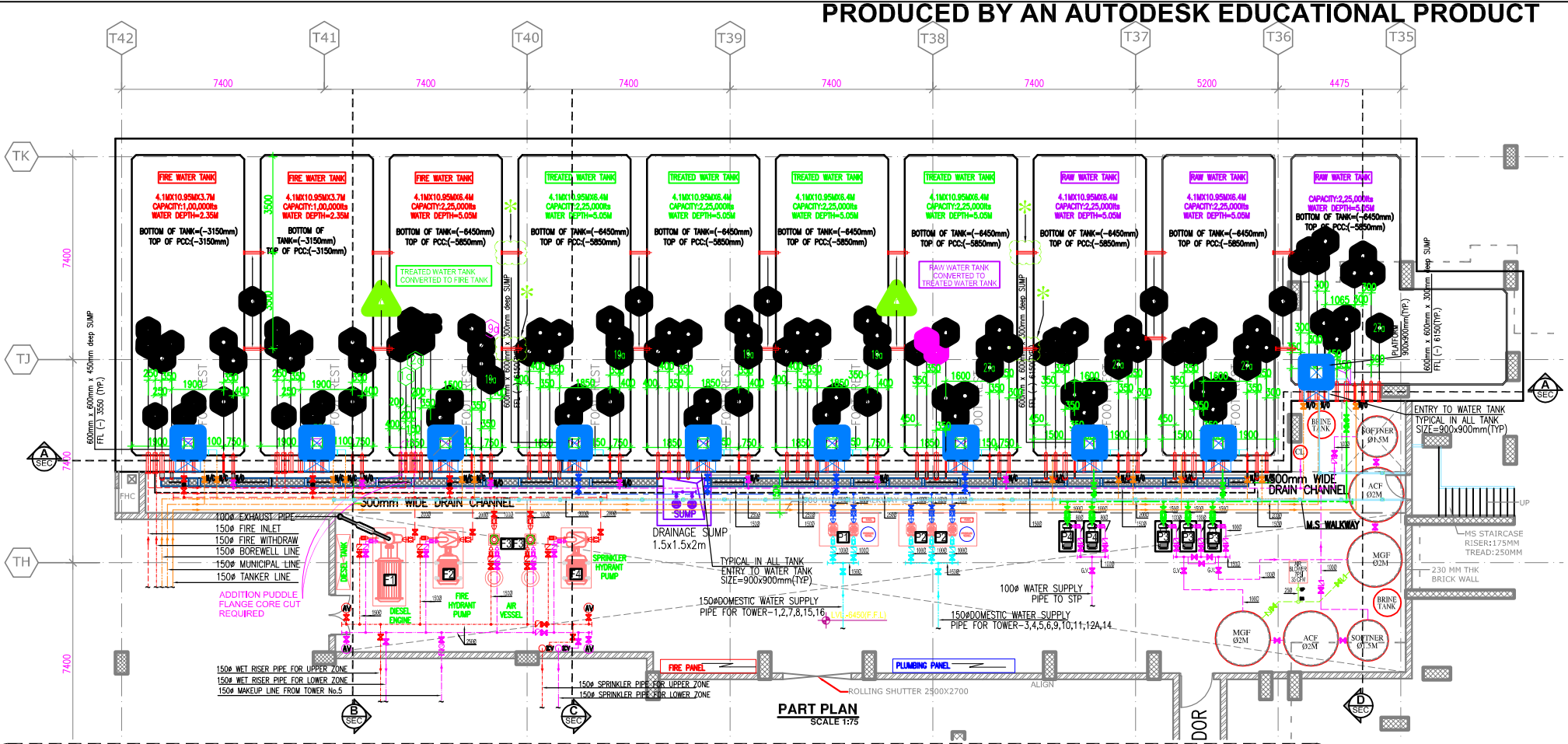
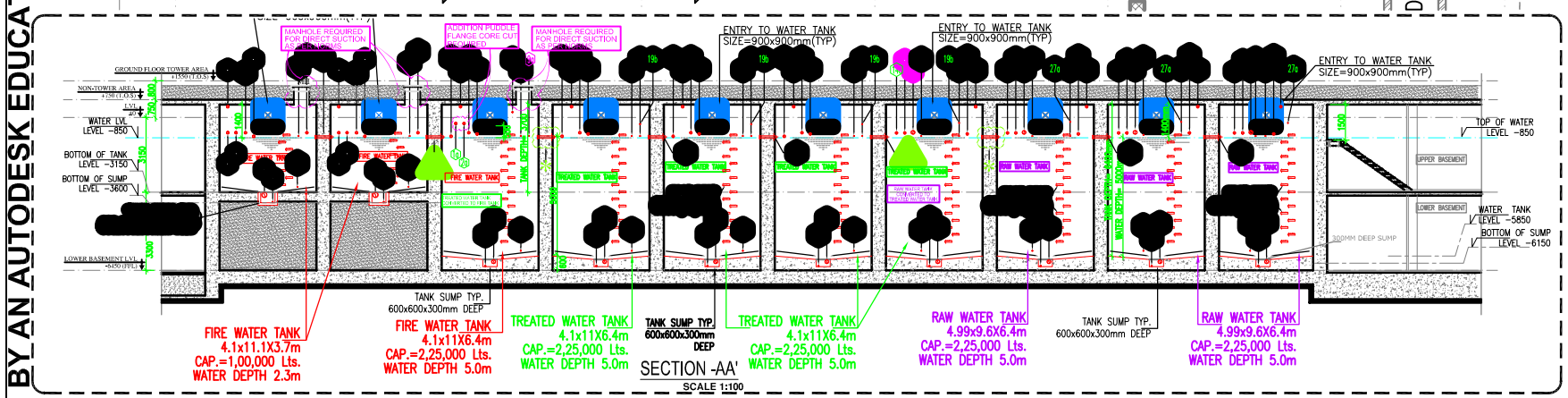
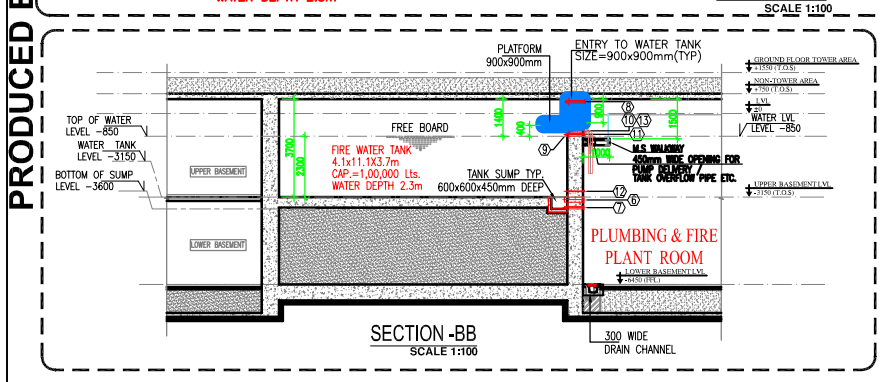
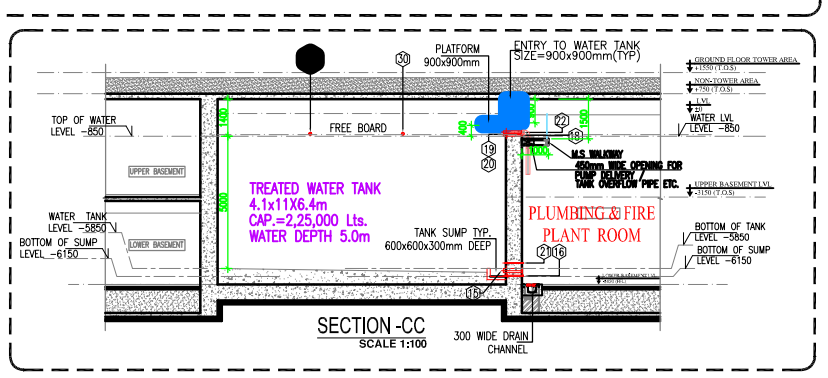
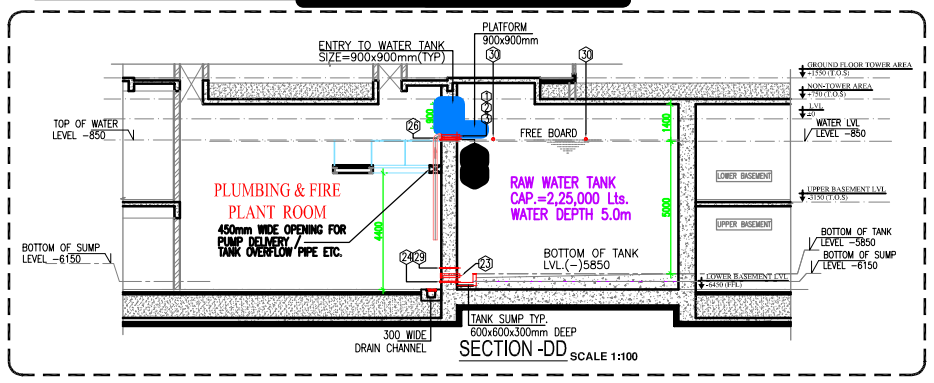
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

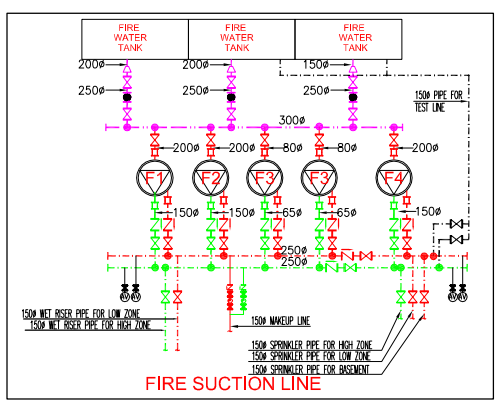




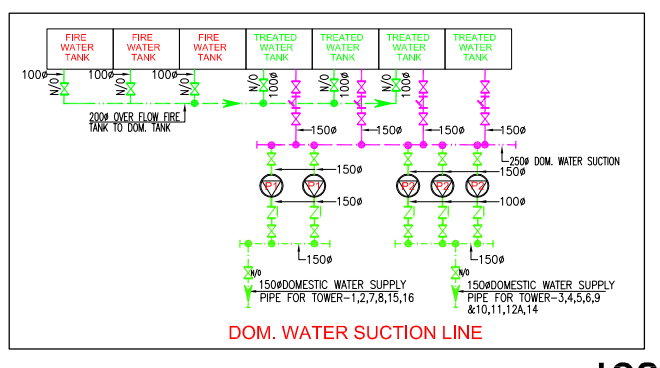




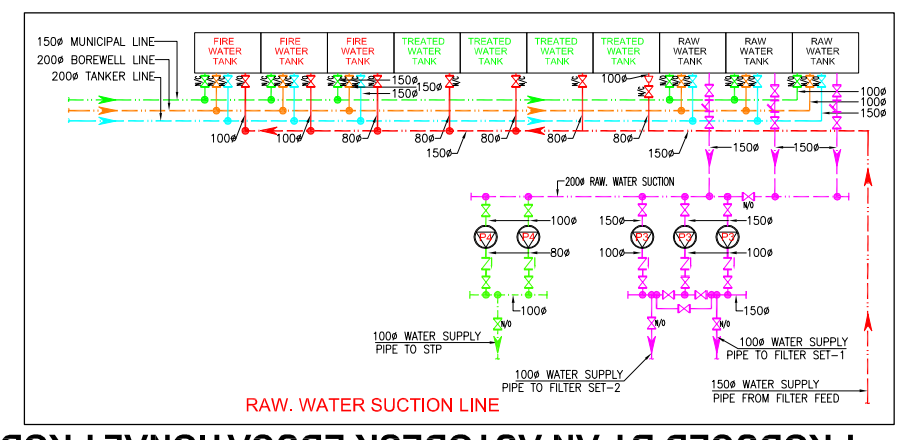




FIRE SUCTION LINE



DOM. WATER SUCTION LINE



RAW. WATER SUCTION LINE

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

SCHDULE OF PUDDLE FLANGES

PUDDLE FLANGE NO.	DESCRIPTION	SIZE OF PIPE	LEVEL IL OF PIPE	QTY. OF PUDDLE FLANGE
	FIRE WATER TANK			
4.	PUDDLE FLANGE FOR FIRE BRIGADE INLET CONNECTION	150ø	(-)700	2 Nos.
5.	PUDDLE FLANGE FOR FIRE WITHDRAWAL CONNECTION	150ø	(-)700	2 Nos.
6.	PUDDLE FLANGE FOR SUCTION PIPE	200ø	(-)3350	2 Nos.
6a.	PUDDLE FLANGE FOR SUCTION PIPE	150ø	(-)6000	1 Nos.
7.	PUDDLE FLANGE FOR DRAIN OUT	50ø	(-)3600	2 Nos.
7a.	PUDDLE FLANGE FOR DRAIN OUT	50ø	(-)6150	1 Nos.
8.	PUDDLE FLANGE FOR VENT	100ø	(+)400	2 Nos.
8a.	PUDDLE FLANGE FOR VENT	100ø	(+)400	1 Nos.
9.	PUDDLE FLANGE FOR OVER FLOW FIRE TANK TO TREATED WATER TANK	100ø	(-)3850	2 Nos.
9a.	PUDDLE FLANGE FOR OVER FLOW FIRE TANK TO TREATED WATER TANK	100ø	(-)3850	1 Nos.
10.	PUDDLE FLANGE FOR PUMP TESTING INLET	150ø	(-)700	2 Nos.
11.	PUDDLE FLANGE FOR LEVEL INDICATOR (TOP)	25ø	(-)3800	2 Nos.
11a.	PUDDLE FLANGE FOR LEVEL INDICATOR (TOP)	25ø	(-)800	1 Nos.
12.	PUDDLE FLANGE FOR LEVEL INDICATOR (BOTTOM)	25ø	(-)2950	2 Nos.
12a.	PUDDLE FLANGE FOR LEVEL INDICATOR (BOTTOM)	25ø	(-)5650	1 Nos.
13.	PUDDLE FLANGE FOR INLET PIPE FROM FILTER FEED PUMP (N/O)	100ø	(-)700	2 Nos.
13a.	PUDDLE FLANGE FOR INLET PIPE FROM FILTER FEED PUMP (N/O)	80ø	(-)700	1 Nos.
~~19a.~~	~~PUDDLE FLANGE FOR LEVEL CONTROLLER~~ ~~(TO BE PLUGGED)~~	~~25ø~~	~~(-)800~~	~~1 Nos.~~
22.	PUDDLE FLANGE FOR DIESEL ENGINE HEAT EXCHANGER DISCHARGE	100ø	(-)750	1 Nos.
30.	PUDDLE FLANGE FOR OVER FLOW FIRE TANK TO FIRE TANK	100ø	(-)875	2 Nos.
30a.	PUDDLE FLANGE FOR OVER FLOW FIRE TANK TO FIRE TANK	100ø	(-)875	2 Nos.
1a.	PUDDLE FLANGE FOR MUNICIPAL CONNECTION (NEW PUDDLE FLANGE INTRODUCED) (N/O)	100ø	(-)3300	1 Nos.
2a.	PUDDLE FLANGE FOR BORE WELL CONNECTION (NEW PUDDLE FLANGE INTRODUCED) (N/O)	100ø	(-)3300	1 Nos.
31.	PUDDLE FLANGE FOR DRY RUNNING PROTECTION (NEW PUDDLE FLANGE INTRODUCED)	50ø	(-)700	3 Nos.
☆	TO BE PLUGGED			
	TREATED WATER TANK			
14.	PUDDLE FLANGE FOR INLET PIPE FROM FILTER FEED PUMP (N/O)	80ø	(-)700	3 Nos.
14a.	PUDDLE FLANGE FOR INLET PIPE FROM FILTER FEED PUMP (N/O)	100ø	(-)700	1 Nos.
15.	PUDDLE FLANGE FOR SUCTION	150ø	(-)6000	4 Nos.
16.	PUDDLE FLANGE FOR DRAIN OUT	50ø	(-)6150	4 Nos.
17.	PUDDLE FLANGE FOR VENT	100ø	(+)400	4 Nos.
18.	PUDDLE FLANGE FOR OVER FLOW FROM FIRE TANK (N/O)	100ø	(-)3850	3 Nos.
~~19.~~	~~PUDDLE FLANGE FOR LEVEL CONTROLLER~~ ~~(TO BE PLUGGED)~~	~~25ø~~	~~(-)800~~	~~4 Nos.~~
19a.	PUDDLE FLANGE FOR LEVEL CONTROLLER	50ø	(-)3300	4 Nos.
20.	PUDDLE FLANGE FOR LEVEL INDICATOR (TOP)	25ø	(-)3800	4 Nos.
21.	PUDDLE FLANGE FOR LEVEL INDICATOR (BOTTOM)	25ø	(-)5650	4 Nos.
22.	PUDDLE FLANGE FOR OVER FLOW TO PLANT ROOM	100ø	(-)750	4 Nos.
30.	PUDDLE FLANGE FOR OVER FLOW TANK TO TANK	150ø	(-)875	2 Nos.
30a.	PUDDLE FLANGE FOR OVER FLOW TANK TO TANK	150ø	(-)875	2 Nos.
2.	(NOT REQUIRED)	100ø	(-)700	1 Nos.
3.	(NOT REQUIRED)	150ø	(-)700	1 Nos.
☆	TO BE PLUGGED			
	RAW WATER TANK			
1.	PUDDLE FLANGE FOR MUNICIPAL CONNECTION (N/O)	100ø	(-)700	3 Nos.
2.	PUDDLE FLANGE FOR BORE WELL CONNECTION (N/O)	100ø	(-)700	3 Nos.
3.	PUDDLE FLANGE FOR TANKER CONNECTION (N/O)	100ø	(-)700	3 Nos.
23.	PUDDLE FLANGE FOR SUCTION PIPE	150ø	(-)6000	3 Nos.
24.	PUDDLE FLANGE FOR DRAIN OUT	50ø	(-)6150	3 Nos.
25.	PUDDLE FLANGE FOR VENT	100ø	(+)400	3 Nos.
26.	PUDDLE FLANGE FOR OVER FLOW TO PLANT ROOM	100ø	(-)750	3 Nos.
~~27.~~	~~PUDDLE FLANGE FOR LEVEL CONTROLLER~~ ~~(TO BE PLUGGED)~~	~~25ø~~	~~(-)800~~	~~3 Nos.~~
27a.	PUDDLE FLANGE FOR LEVEL CONTROLLER	50ø	(-)3300	3 Nos.
28.	PUDDLE FLANGE FOR LEVEL INDICATOR (TOP)	25ø	(-)3800	3 Nos.
29.	PUDDLE FLANGE FOR LEVEL INDICATOR (BOTTOM)	25ø	(-)5650	3 Nos.
30	PUDDLE FLANGE FOR OVER FLOW TANK TO TANK	100ø	(-)875	6 Nos.
☆	TO BE PLUGGED			

CORE CUT FOR PUDDLE FLANGE REQUIRED

CORE CUT FOR PUDDLE FLANGE REQUIRED

CORE CUT FOR PUDDLE FLANGE REQUIRED

PLATE SIZE

S.NO.	DIA. OF PIPE	SIZE OF PLATE	THICKNESS
1	UPTO 150ø	150+D+150mm	6mm
2	200ø,300ø	200+D+200mm	6mm

a. NOMINAL BORE
b. PCD OF FLANGE
c. OUTER DIAMETER OF FLANGE
D. OUTER DIAMETER OF PIPE
H. HOLE DIAMETER OF FLANGE
T. THICKNESS OF FLANGE

SCHEDULE OF FLANGES

FLANGES AS PER IS: 1538 (PART-IV)

SL NO.	DESCRIPTION	a	b	c	T	H. Dia	NO. OF HOLES
1.	65ø PIPE	65ø	145	185	18	18	4
2.	80ø PIPE	80ø	160	200	21	19	4
3.	100ø PIPE	100ø	180	220	22	19	8
4.	150ø PIPE	150ø	240	285	23	23	8
5.	200ø PIPE	200ø	295	340	24.5	23	8
6.	250ø PIPE	250ø	350	395	26	23	12
7.	300ø PIPE	300ø	400	445	27.5	23	12

SCHEDULE OF PUMPS AND EQUIPMENTS

SYMBOL	DESCRIPTION	DISCHARGE	HEAD IN MTR.	PUMP QTY.
F1	MAIN FIRE PUMP (DIESEL ENGINE DRIVEN)	2850 LPM	160	1
F2	FIRE PUMP (ELECTRICAL OPERATED)	2850 LPM	160	1
F3	JOCKEY PUMP	180 LPM	160	1W+1S=2
F4	SPRINKLER PUMP (ELECTRICAL OPERATED)	2850 LPM	160	1
P1	DOMESTIC WATER SUPPLY PUMP SET FOR TOWER-1,2,7,8,15,16	60 KLH	110	1W+1S=2
P2	DOMESTIC WATER SUPPLY PUMP SET FOR TOWER-3,4,5,6,9,10,11,12A,14	60 KLH	120	2W+1S=3
P3	FILTER FEED PUMP	46.5 KLH	22	2W+1S=3
P4	RAW WATER PUMP SET FOR STP	45 KLH	15	1W+1S=2

LEGEND	
M	VALVE
GV	GLOBE VALVE (GV)
R	NON-RETURN VALVE
S	STRAINER
B	VIBRATION ELIMINATION BELLOW
●	BUCKET STRAINER
D	REDUCER
E	ENLARGER
MGF	MULTI GRADE FILTER (2M)
ACF	ACTIVATED CARBON FILTER (2M)
SFT	SOFTNER (1.5M)
CL	CHLORINE DOSER
BT	BRINE TANK
AV	AIR VESSEL
PV	PRESSURE VESSEL
PV	PRESSURE REDUCING VALVE
ICV	INSTALATION CONTROL VALVE
N/O	NORMALLY OPEN
N/C	NORMALLY CLOSE

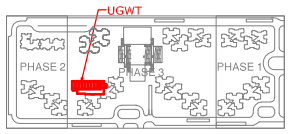
GENERAL NOTES :

1. DRAWINGS IN PL & FF SERIES REPRESENTS PLUMBING AND FIRE SUPPRESSION SYSTEM.
2. IN CASE OF ANY DISCREPANCY IF SHOULD BE BROUGHT TO THE NOTICE OF ARCHITECT / PROJECT MANAGER / CONSULTANT.
3. DRAWING SHOULD NOT BE SCALED, ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
4. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL LAND SCAPING, STRUCTURAL AND OTHER SERVICES DRAWING.
5. ALL SERVICES SHAFTS WILL BE SEALED AT EVERY FLOOR LEVEL AFTER INSTALLING SERVICES.

EXACT FOUNDATION SIZE & BOLTING LOCATION WILL BE AS PER SELECTION OF EQUIPMENT

PUDDLE FLANGE DIAMETER IS AS PER THE INSTALLATION DONE AT SITE BASED ON PREVIOUS CONSULTANTS DRAWING

KEY PLAN:-



QTY.	ISSUED TO	ISSUE FOR	DATE
	Mr. MANIVANNAN	ADVANCE COPY	26-04-16

REV	DESCRIPTION	DATE
0	ADVANCE COPY	26-04-16

Drawing Title:-
UNDER GROUND WATER TANK PUDDLE FLANGE DETAIL LAYOUT (NEAR TOWER 5)

Approved - C.P.V
Checked - D.NEGI
Scale - 1:100 @ A0
Dealt - ASHISH
Date - 27.01.2016

Drg No PL-LZ-00-UGWT-01

Rev No. R-0

North Direction :- N

Project
LOTUS ZING
SECTOR 168
NOIDA

Architect
THE 3C DESIGN TEAM
Tech Boulevard , Central block, plot no-6
sector - 127 Noida - 201301
Tel: 0120-4766415, Fax: 0120-4766415

PLUMBING AND FIRE SUPPRESSION CONSULTANT :
C P Vidya and Associates
312A, UNITECH ARCADIA, SOUTH CITY-II, SECTOR-49,NEAR PARK HOSPITAL(GURGAON) Haryana-122018 (INDIA)
Email :- cpvidyaassociates@gmail.com

STATUS ADVANCE COPY

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT