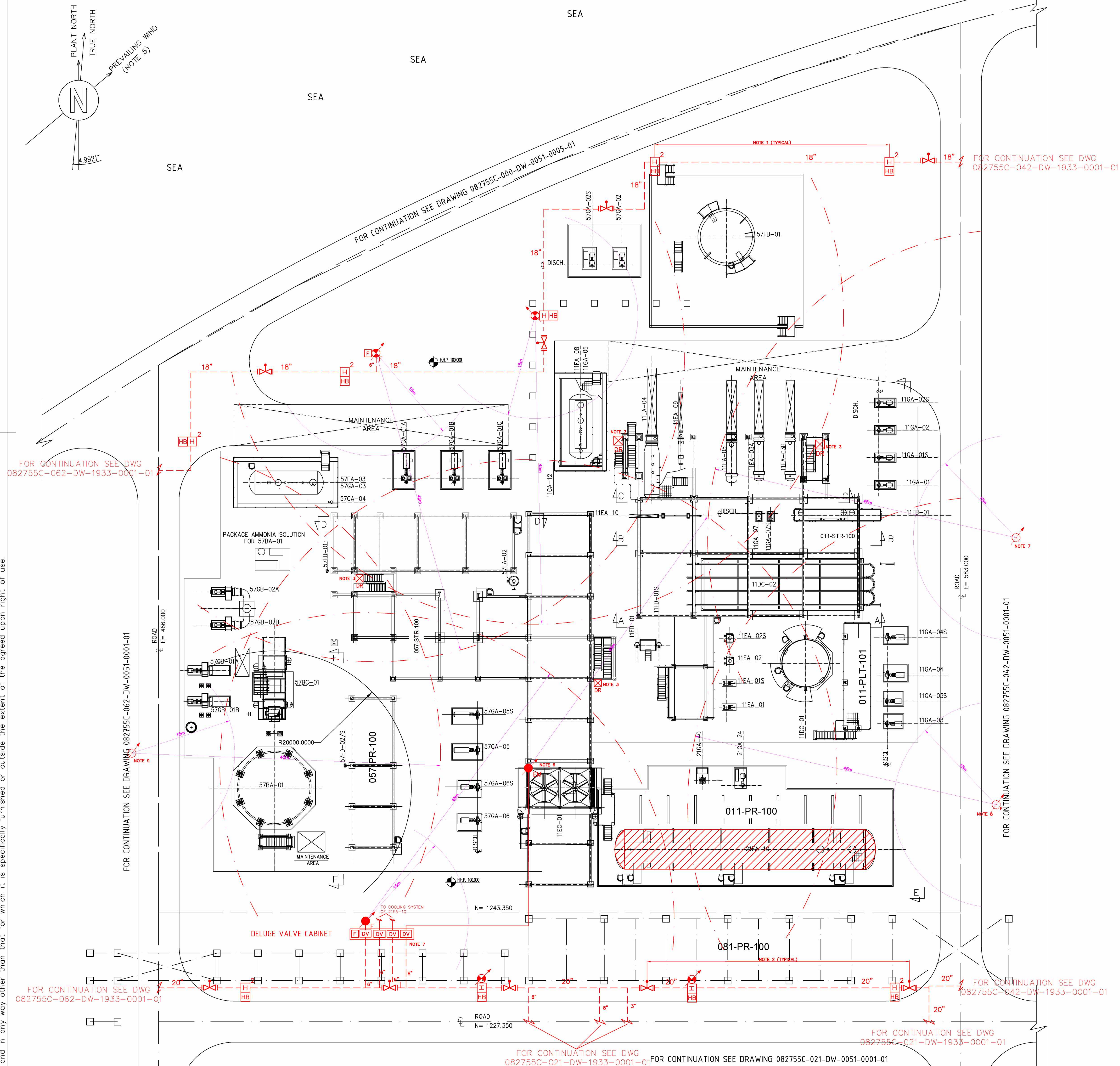


DO NOT USE AS PLOT PLAN VALID
FOR FIREFIGHTING ONLY

MINIMUM DISTANCE OF FIRE
MONITOR FROM EQUIPMENT BEING
PROTECTED (15m)

PERFORMANCE OF MONITOR (45m)



EQUIPMENT NO.	SERVICE	NOTE
11DC-01	HEAT TREATMENT REACTOR	
11DC-02	TUBE REACTOR	
11EA-01/S	HTU FEED HEATER	
11EA-02/S	HTU DRIED FEED HEATER	
11EA-03A	HTU REACTOR CIRCULATION HEATER	
11EA-03B	HTU REACTOR CIRCULATION HEATER	
11EA-04	HTU STEAM GENERATOR	
11EA-05	HTU/HDO HEAT INTEGRATION HEATER	
11EA-06/S	HTU REACTOR STEAM CONDENSER	
11EA-07/S	HTU VACUUM SYSTEM CONDENSER	
11EA-08/S	HTU VACUUM PUMP LIQUID COOLER (11PK-01)	INCLUDED IN 11PK-01 ON PLOT PLAN - (ITEM NOT SHOWN ON PLOT PLAN)
11EA-09	CONDENSATE ECONOMIZER	
11EA-10	BLOWDOWN WATER COOLER	
11EB-01	HTU OIL DRAIN DRUM COIL	(ITEM NOT SHOWN ON PLOT PLAN)
11EB-02	HTU BAROMETRIC WATER TANK COIL	NOT SHOWN ON CURRENT PFD REVISION - SHOWN ON CURRENT PIPING LIST
11EC-01A/B	HEAT TREATED OIL COOLER	TAGGED AS EC-01 ON CURRENT PFD REVISION
11EX-01	HTU BAROMETRIC TANK WATER/OIL COMPARTMENT ELECTRIC HEATER	SHOWN ON CURRENT PFD REVISION - (ITEM NOT SHOWN ON PLOT PLAN)
11EX-02	HTU BAROMETRIC TANK WASTE WATER COMPARTMENT ELECTRIC HEATER	SHOWN ON CURRENT PFD REVISION - (ITEM NOT SHOWN ON PLOT PLAN)
11EX-03	HTU BAROMETRIC TANK OIL COMPARTMENT ELECTRIC HEATER	SHOWN ON CURRENT PFD REVISION - (ITEM NOT SHOWN ON PLOT PLAN)
11FA-01	HTU FEED SURGE DRUM	
11FA-02	HTU FEED DRYER	
11FA-03	HTU VACUUM PUMP SEPARATOR (11PK-01)	INCLUDED IN 11PK-01 ON PLOT PLAN - (ITEM NOT SHOWN ON PLOT PLAN)
11FA-08	HTU OIL DRAIN DRUM	
11FB-01	HTU BAROMETRIC WATER TANK	
11FD-01/S	HTU FEED STRAINER	
11GA-01/S	HTU FEED PUMP	
11GA-02/S	HTU DRIED OIL PUMP	
11GA-03/S	HEAT TREATED OIL PUMP	
11GA-04/S	HEAT TREATMENT REACTOR HEATING CIRCULATION PUMP	
11GA-06	HTU OIL DRAIN DRUM PUMP	
11GA-07/S	HTU BAROMETRIC TANK WASTE WATER	
11GA-08/S	HTU VACUUM PUMP (11PK-01)	INCLUDED IN 11PK-01 ON PLOT PLAN - (ITEM NOT SHOWN ON PLOT PLAN)
11GA-09/S	HTU NAOH DAY TANK PUMP	SHOWN ONLY ON 082755C-057-DW-0051-0001-01_B EQUIPMENT LIST - (ITEM NOT SHOWN ON PLOT PLAN)
11GA-12	HTU DRAINAGE STORM WATER PUMP	
11PA-02	LP STEAM DESUPERHEATER	(ITEM NOT SHOWN ON PLOT PLAN)
11PA-03	STEAM GENERATOR SILENCER	(ITEM NOT SHOWN ON PLOT PLAN)
11PK-01	HTU VACUUM SYSTEM	
57BA-01	HOT OIL HEATER	
57BC-01	57BA-01 AIR PREHEATER	
57EA-01	57BA-01 STEAM AIR PREHEATER	SHOWN ON CURRENT PFD REVISION - (ITEM NOT SHOWN ON PLOT PLAN)
57EA-02	HOT OIL SYSTEM STEAM GENERATOR	SHOWN ON CURRENT PFD REVISION - (ITEM NOT SHOWN ON PLOT PLAN)
57EA-03	BLOWDOWN COOLER	SHOWN ON CURRENT PFD REVISION - (ITEM NOT SHOWN ON PLOT PLAN)
57EA-04	HOT OIL DRAINAGE COOLER	SHOWN ON CURRENT PFD REVISION - (ITEM NOT SHOWN ON PLOT PLAN)
57EC-01	HOT OIL DRAINAGE COOLER	CHANGED IN 57EA-04 ON CURRENT PFD REVISION - (ITEM NOT SHOWN ON PLOT PLAN)
57EX-01	HOT OIL STORAGE ELECTRICAL HEATER	SHOWN ON CURRENT PFD REVISION - (ITEM NOT SHOWN ON PLOT PLAN)
57EX-02	HOT OIL DRAIN ELECTRICAL HEATER	SHOWN ON CURRENT PFD REVISION - (ITEM NOT SHOWN ON PLOT PLAN)
57FA-01	HOT OIL EXPANSION DRUM	
57FA-02	OFFGAS KO DRUM	
57FA-03	HOT OIL DRAIN DRUM	
57FA-04	HOT OIL START-UP DRUM	
57FA-05	HOT OIL EXPANSION TANK	
57FB-01	HOT OIL STORAGE TANK	
57FD-01	HOT OIL DRAINAGE FILTER	
57FD-02/S	NATURAL GAS FILTERS	
57GA-01A/B/C	HIT OIL CIRCULATION PUMP	
57GA-02/S	HOT OIL TANK PUMP	
57GA-03	HOT OIL DRAIN DRUM PUMP	
57GA-04	DRAINAGE STORM WATER PUMP	
57GA-05/S	HOT OIL START-UP PUMP	
57GA-06/S	HEAT INTEGRATION HOT OIL CIRCULATION PUMP	
57GB-01A/B	FUEL GAS BLOWER	
57GB-02A/B	COMBUSTION AIR BLOWER	
57PA-01	STEAM GENERATOR SILENCER	(ITEM NOT SHOWN ON PLOT PLAN)
21FA-10	RERUN BULLET	
21FA-71	HOT OIL EXPANSION TANK	SHOWN ONLY ON 082755C-057-DW-0051-0001-01_B EQUIPMENT LIST - (ITEM NOT SHOWN ON PLOT PLAN)
21GA-24	FLUSHING PUMP	
21GA-40	RERUN PUMP	
21GA-88	21FA-10 WATER BOOT DRAINAGE PUMP	SHOWN ONLY ON 082755C-057-DW-0051-0001-01_B EQUIPMENT LIST - (ITEM NOT SHOWN ON PLOT PLAN)

GENERAL NOTES

A. FOR DETAILS ON ACTIVE FIRE PROTECTION REFER TO "ACTIVE FIRE PROTECTION PHILOSOPHY" (082755C-000-JSD-1900-0001).

B. HYDRANT CONNECTION TO FIREWATER MAIN RING IS 6".

NOTES

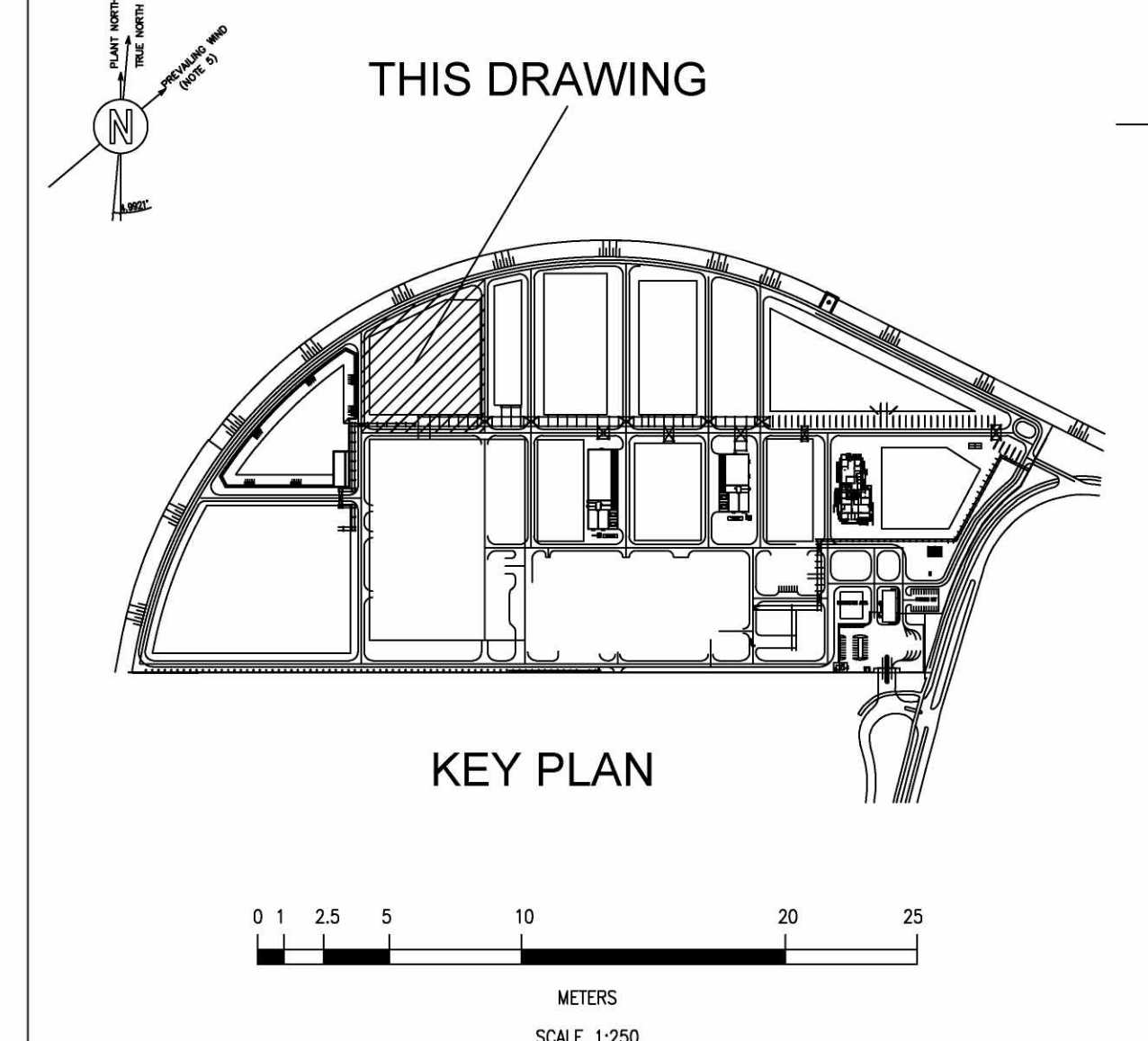
1. MAXIMUM DISTANCE BETWEEN TWO HYDRANTS SHALL NOT EXCEED 40 METERS.
2. MAXIMUM DISTANCE OF PIPING BETWEEN TWO FIVS SHALL BE NO MORE THAN 60 METERS.
3. THE DISTANCE BETWEEN TWO HYDRANTS SHALL NOT BE MORE THAN THREE FIRE PROTECTION DEVICES (MONITORS, HYDRANTS, FIXED SPRAY SYSTEM) ARE OUT OF SERVICE.
4. WATER LANDING VALVES AND FIRE HOSE BOXES TO BE SUPPLIED CLOSE TO EACH OTHER AND TO BE LOCATED WITHIN 18 METERS FROM EACH OTHER.
5. TO BE LOCATED NO MORE THAN 18 METERS AWAY FROM ANY FIRE ENGINE ACCESS WAY.
6. FOR EQUIPMENT TO BE PROTECTED WITH FIXED SPRAY SYSTEM REFER TO TABLE BELOW.

ITEM	SPRINK
FROM PROTECTED EQUIPMENT.	
5. DELUGE VALVE FOR FIXED SPRAY SYSTEM TO BE LOCATED AT LEAST 30 METERS FROM PROTECTED EQUIPMENT.	
6. MONITOR TO BE LOCATED ON PIPERACK.	
7. WATER MONITOR TO BE INSTALLED IN UNIT 42; THE EQUIPMENT IS COUNTED IN PERMITS OF DRAINED FIRE FIGHTING LAYOUT SUMMARY TABLE AND NOT IN SUMMARY TABLE OF PRESENT LAYOUT.	
8. REMOTE CONTROL, FOAM-WATER MONITOR TO BE INSTALLED IN UNIT 42; THE EQUIPMENT IS COUNTED IN PERMITS OF DRAINED FIRE FIGHTING LAYOUT SUMMARY TABLE AND NOT IN SUMMARY TABLE OF PRESENT LAYOUT.	
9. WATER MONITOR TO BE INSTALLED IN UNIT 62; THE EQUIPMENT IS COUNTED IN PERMITS OF DRAINED FIRE FIGHTING LAYOUT SUMMARY TABLE AND NOT IN SUMMARY TABLE OF PRESENT LAYOUT.	

LEGEND

SYMBOLS	DESIGNATION	QTY
	TWO WAY HYDRANT	6
	FOUR WAY HYDRANT	0
	HOSE BOX (HB)	3
	HYDRANT WITH MONITOR	9
	WATER MONITOR (WM)	0 NOTE 7 AND 9
	ELEVATED REMOTE CONTROL WATER MONITOR (EM)	1
	REMOTE CONTROL WATER MONITOR WITH TOWER (TWM)	0
	REMOTE CONTROL FOAM-WATER MONITOR (FWM)	1 NOTE 8
	FOAM-WATER MONITOR	1
	FOAM CONTAINER	2
	DRY RISING MAIN WITH BREECHING INLET CONNECTION (DR)	4
	HOSE REEL (HR)	0
	DELUGE VALVE (DV)	4
	GATE VALVE POST INDICATOR (PI)	9
	FIXED SPRAY SYSTEM	NOTE 5
	FIRE WATER U/G LINE	NOT APPLICABLE
	FIRE WATER A/G LINE	NOT APPLICABLE

KEY PLAN



082755C-057-DW-0051-0001-01_B	057 (HOT OIL) / 011 (HTR) UNIT PLOT PLAN
Drawing No	DESCRIPTION

REFERENCE DRAWINGS

CONFIDENTIAL						
REV	DATE	DESCRIPTION	PREP	CKD	APPR./AUTH	
A	11/05/2021	ISSUE FOR REVIEW	C.P002	A TABSUSRO	CINQUESE- F. DIROZZO, M. LANDOTTI	    
	2-9-2021	Issued for local authorities				    

CONFIDENTIAL

RDCG (Rotterdam Capacity Growth) - DEFINITION PHASE
NESTE

DETAILED FIREFIGHTING LAYOUT - UNIT 057

Scale	Technip Drawing No						Page	Rev.
1/250	082755C Project	057 Unit	DW Doc.Type	19 Disc	33 Subj	0001 Ser.No	1of1	A
NESTE Drawing No								
- CAD Model								