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REUSE OF TREATED WASTEWATER FOR AGRICULTURE USE IN AL-MAWASI AREA - RAFAH - GAZA STRIP

Project Code: 11473/OVERSEAS

CARRIER LINE DRAWINGS

JULY 2020

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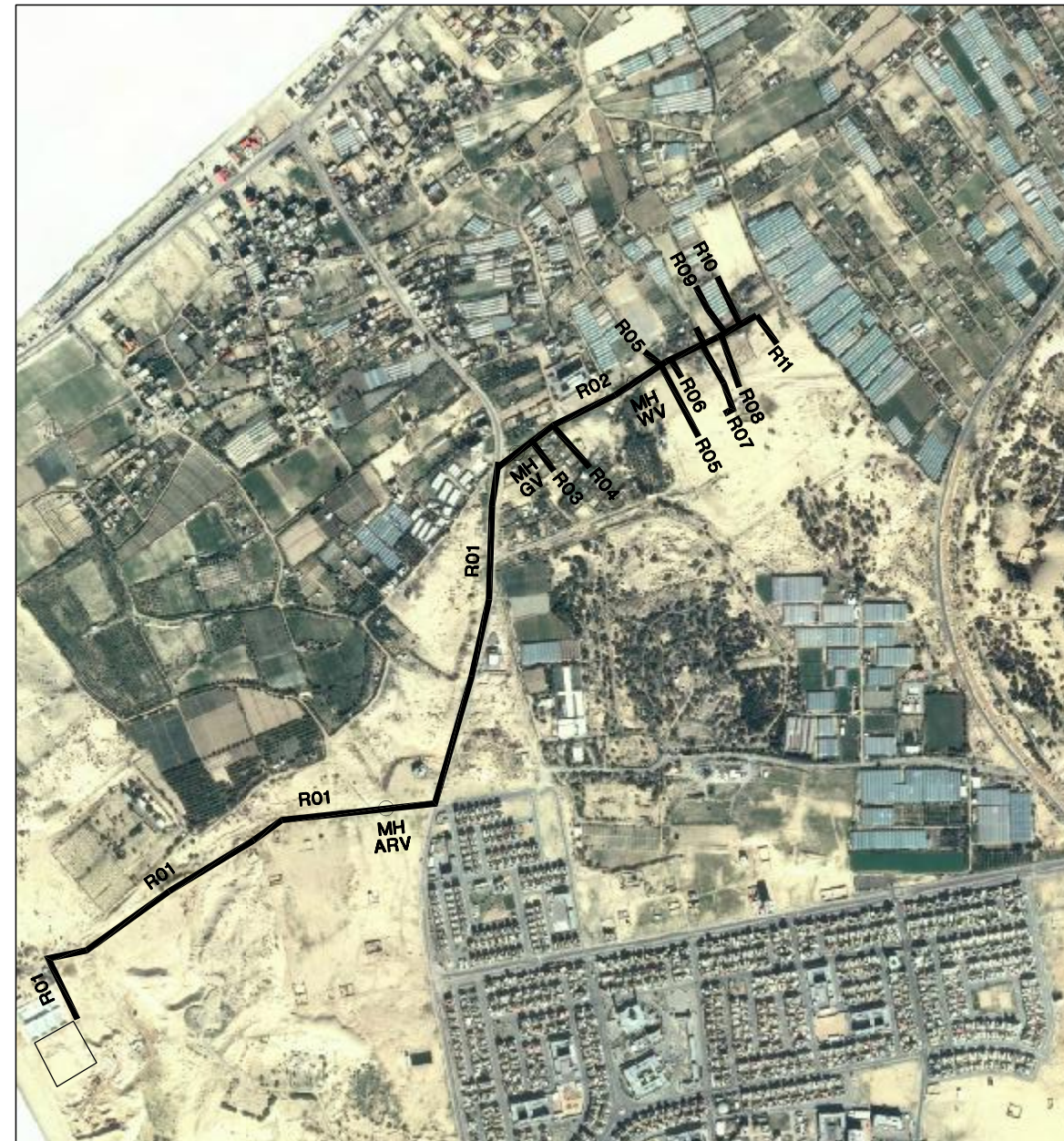


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03	PLAN & PROFILE FOR ROAD R01 FROM St. 50 to St. 100	CL-03
04	PLAN & PROFILE FOR ROAD R01 FROM St. 100 to St. 150	CL-04
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GAZA STRIP VICINITY MAP
SCALE 1:1,000



AL-MAWASI LOCATION MAP
SCALE 1:1,000

NOTES :-

- Paper Size: A1

ABBREVIATIONS & SYMBOLS	
	GATE VALVE, MANHOLE & TWO FLANGED COUPLING (GV, MH & 2FC)
	ALL FLANGED TEE (T3)
	DOUBLE FLANGED TEE (T2)
	DOUBLE SOCKET TEE (T1)
	ALL SOCKET TEE (T)
	FLANGED COUPLING (FC)
	FLANGED SOCKET (FS)
	STRAIGHT COUPLING (SC)
	FLANGE REDUCER (FR)
	REDUCER (R)
	END CAP (C)
	BEND (B)
	AIR RELEASE VALVE (ARV)
	WASH VALVE (WV)
	FIRE HYDRANT (FH)

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PROJECT TITLE:

REUSE OF TREATED WASTEWATER FOR AGRICULTURE USE IN AL-MAWASI AREA, RAFAH, GAZA STRIP

Project Code.: 11473/OVERSEAS

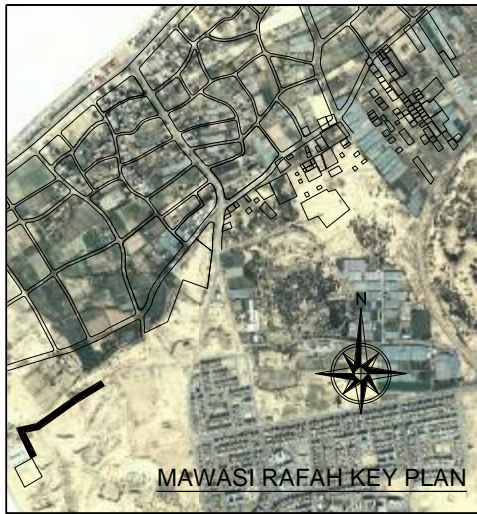
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LOCATION MAPS FOR AL-MAWASI PROPOSED PIPES

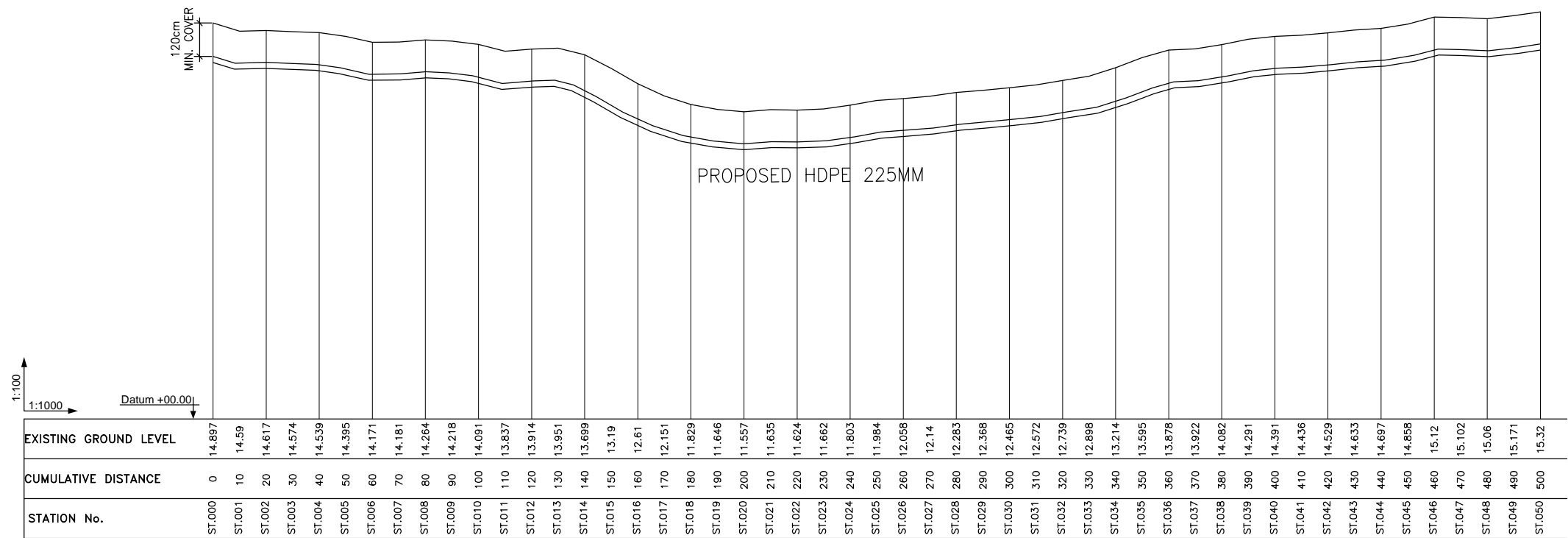
DRAWING NO.: CL-01

DATE: JULY 2020

SCALE: AS SHOWN



PLAN FOR R01 FROM St. 0 to St. 50
SCALE: 1:1000



PROFILE FOR ROAD R01

NOTES :-

- Paper Size: A1

ABBREVIATIONS & SYMBOLS	
	GATE VALVE, MANHOLE & TWO FLANGED COUPLING (GV, MH & 2FC)
	ALL FLANGED TEE (T3)
	DOUBLE FLANGED TEE (T2)
	DOUBLE SOCKET TEE (T1)
	ALL SOCKET TEE (T)
	FLANGED COUPLING (FC)
	FLANGED SOCKET (FS)
	STRAIGHT COUPLING (SC)
	FLANGE REDUCER (FR)
	REDUCER (R)
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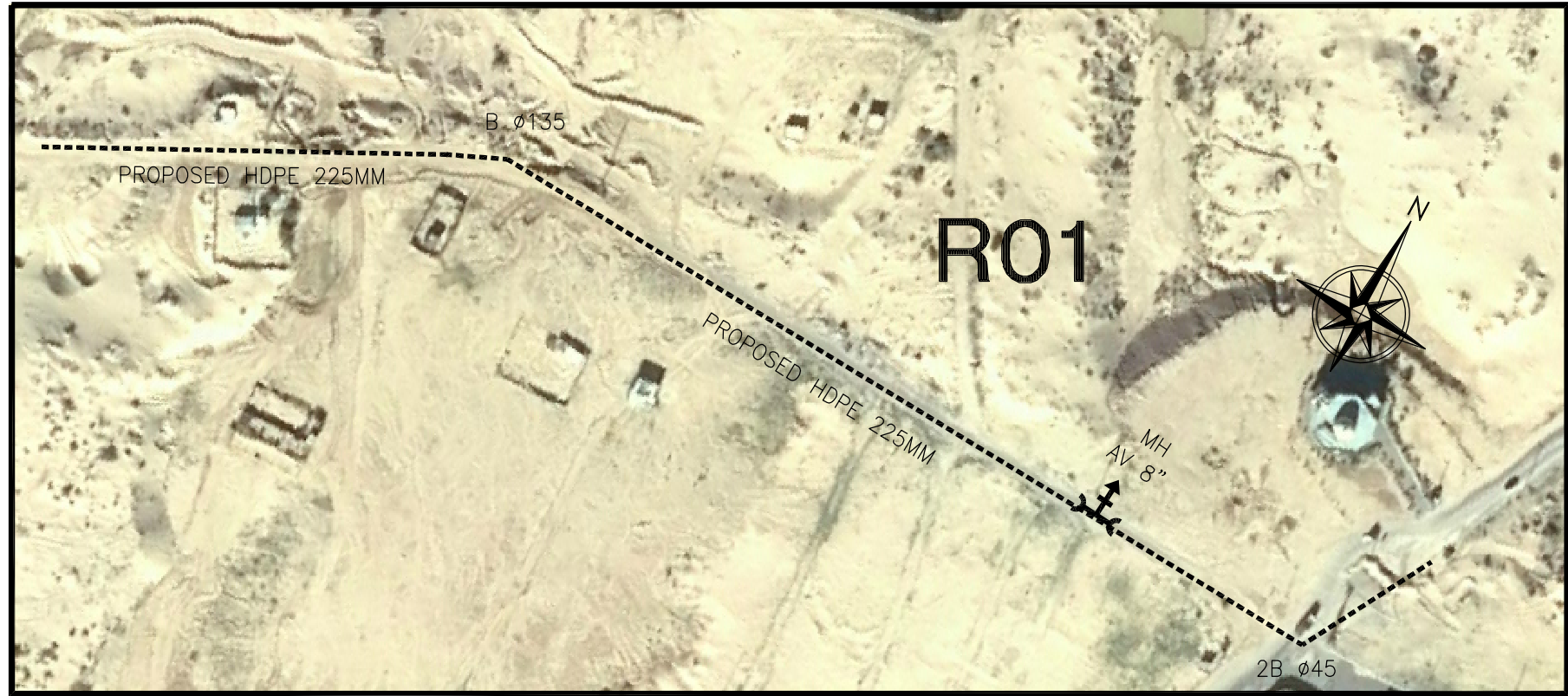
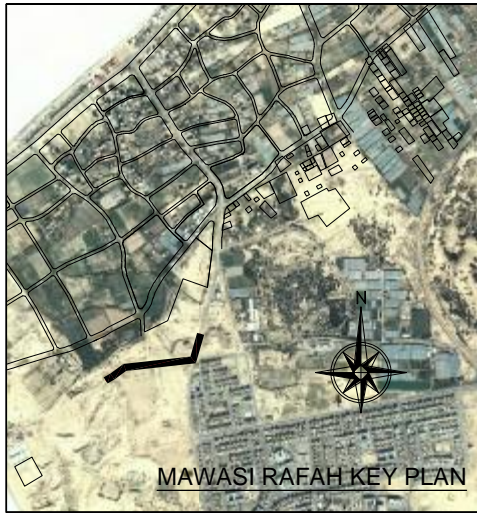
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PLAN & PROFILE FOR ROAD R01
FROM St. 0 to St. 50

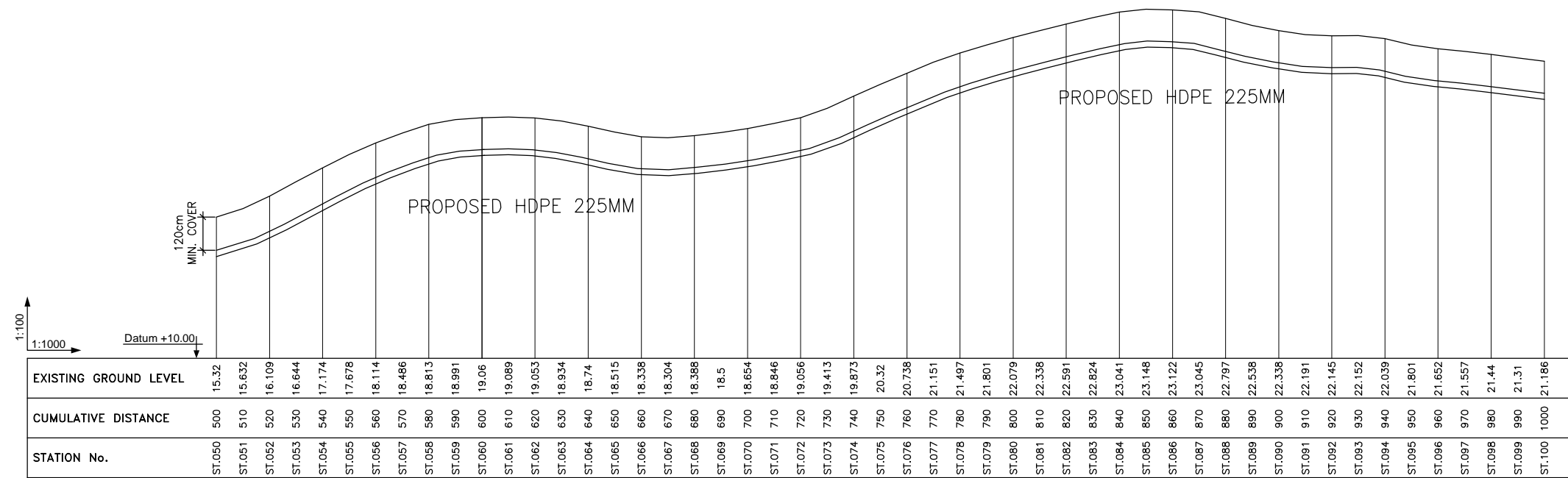
DRAWING NO.: CL-02

DATE: JULY 2020

SCALE: AS SHOWN



PLAN FOR R01 FROM St. 50 to St. 100
SCALE: 1:1000



PROFILE FOR ROAD R01

NOTES :-

- Paper Size: A1

ABBREVIATIONS & SYMBOLS	
	GATE VALVE, MANHOLE & TWO FLANGED COUPLING (GV, MH & 2FC)
	ALL FLANGED TEE (T3)
	DOUBLE FLANGED TEE (T2)
	DOUBLE SOCKET TEE (T1)
	ALL SOCKET TEE (T)
	FLANGED COUPLING (FC)
	FLANGED SOCKET (FS)
	STRAIGHT COUPLING (SC)
	FLANGE REDUCER (FR)
	REDUCER (R)
	END CAP (C)
	BEND (B)
	AIR RELEASE VALVE (ARV)
	WASH VALVE (WV)
	FIRE HYDRANT (FH)

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PROJECT TITLE:

REUSE OF TREATED WASTEWATER FOR AGRICULTURE USE IN AL-MAWASI AREA, RAFAH, GAZA STRIP

Project Code.: 11473/OVERSEAS

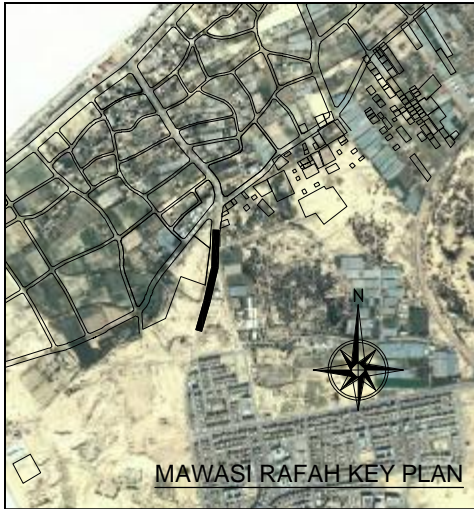
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PLAN & PROFILE FOR ROAD R01
FROM St. 50 to St. 100

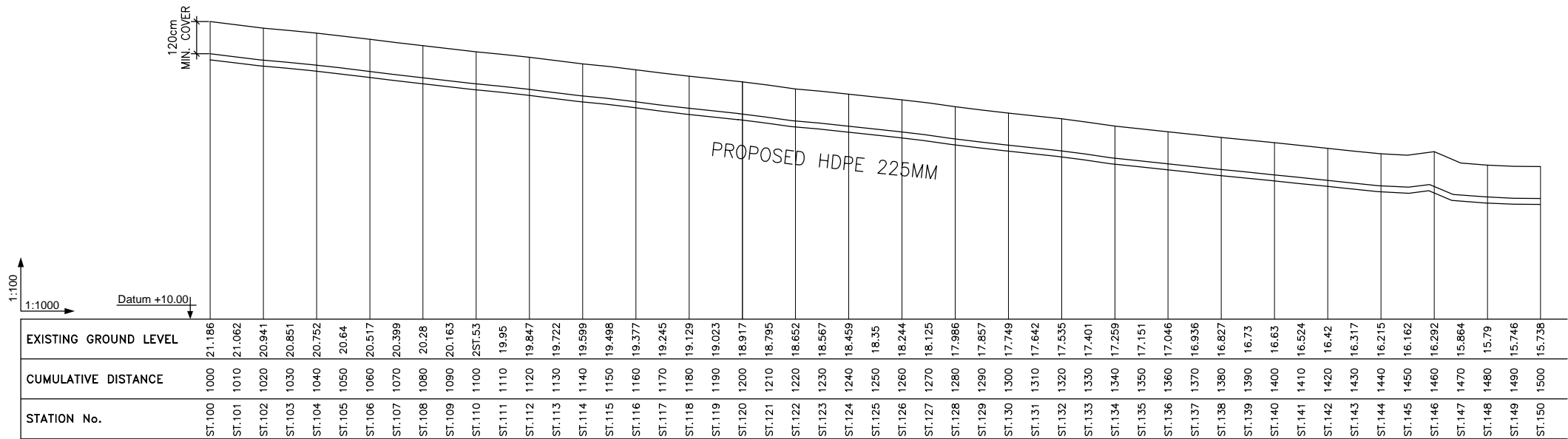
DRAWING NO.: CL-03

DATE: JULY 2020

SCALE: AS SHOWN



PLAN FOR R01 FROM St. 100 to St. 150
SCALE: 1:1000



PROFILE FOR ROAD R01

NOTES :-

- Paper Size: A1

ABBREVIATIONS & SYMBOLS	
	GATE VALVE, MANHOLE & TWO FLANGED COUPLING (GV, MH & 2FC)
	ALL FLANGED TEE (T3)
	DOUBLE FLANGED TEE (T2)
	DOUBLE SOCKET TEE (T1)
	ALL SOCKET TEE (T)
	FLANGED COUPLING (FC)
	FLANGED SOCKET (FS)
	STRAIGHT COUPLING (SC)
	FLANGE REDUCER (FR)
	REDUCER (R)
	END CAP (C)
	BEND (B)
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PROJECT TITLE:

REUSE OF TREATED WASTEWATER FOR AGRICULTURE USE IN AL-MAWASI AREA, RAFAH, GAZA STRIP

Project Code.: 11473/OVERSEAS

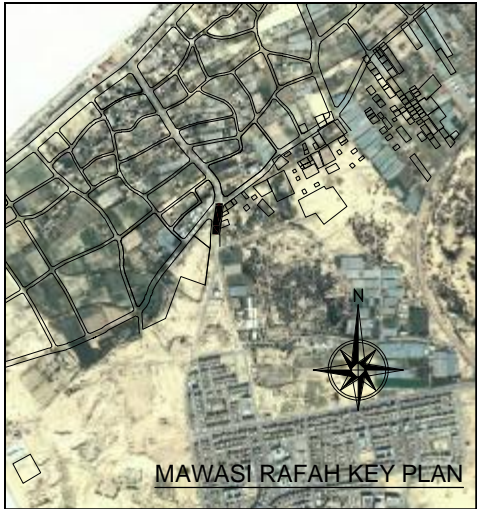
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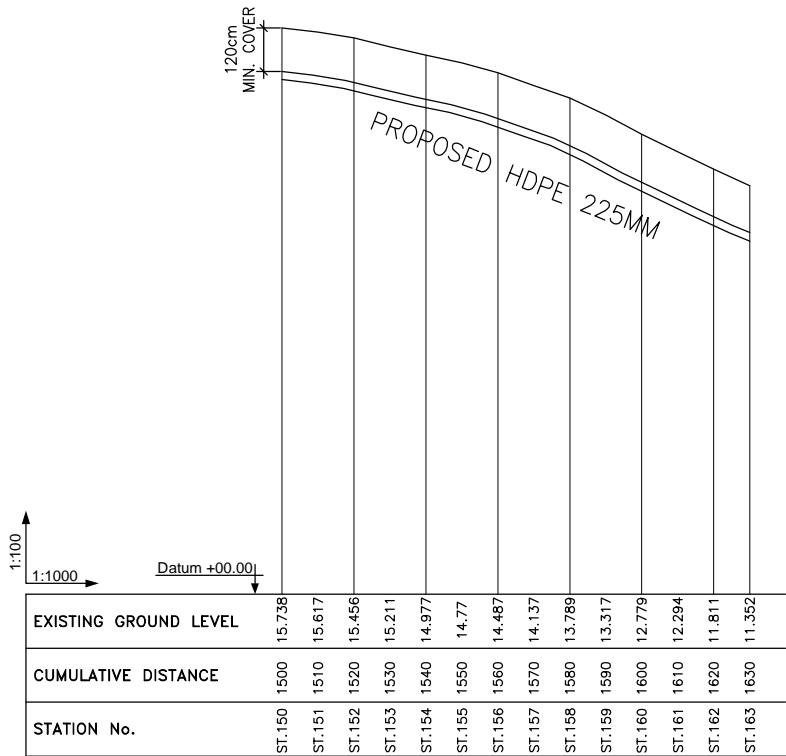
DRAWING NO.: CL-04

DATE: JULY 2020

SCALE: AS SHOWN



PLAN FOR R01 FROM St. 150 to St. 163
SCALE: 1:1000



PROFILE FOR ROAD R01

NOTES :-

- Paper Size: A1

ABBREVIATIONS & SYMBOLS	
	GATE VALVE, MANHOLE & TWO FLANGED COUPLING (GV, MH & 2FC)
	ALL FLANGED TEE (T3)
	DOUBLE FLANGED TEE (T2)
	DOUBLE SOCKET TEE (T1)
	ALL SOCKET TEE (T)
	FLANGED COUPLING (FC)
	FLANGED SOCKET (FS)
	STRAIGHT COUPLING (SC)
	FLANGE REDUCER (FR)
	REDUCER (R)
	END CAP (C)
	BEND (B)
	AIR RELEASE VALVE (ARV)
	WASH VALVE (WV)
	FIRE HYDRANT (FH)

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PROJECT TITLE:

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Project Code.: 11473/OVERSEAS

DRAWING TITLE:

PLAN & PROFILE FOR ROAD R01
FROM St. 150 to St. 163

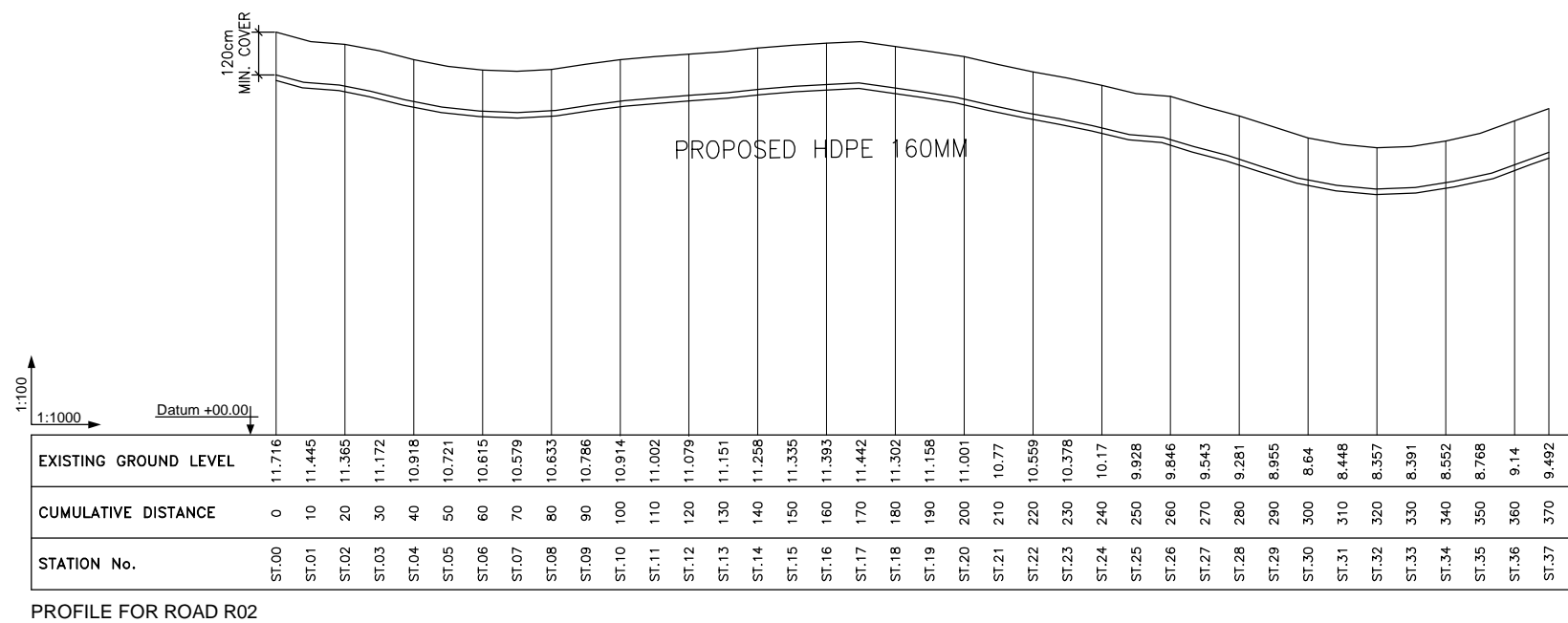
DRAWING NO.: CL-05

DATE: JULY 2020

SCALE: AS SHOWN



PLAN FOR R02 FROM St. 0 to St. 37
SCALE: 1:1000



NOTES :-

- Paper Size: A1

ABBREVIATIONS & SYMBOLS	
	GATE VALVE, MANHOLE & TWO FLANGED COUPLING (GV, MH & 2FC)
	ALL FLANGED TEE (T3)
	DOUBLE FLANGED TEE (T2)
	DOUBLE SOCKET TEE (T1)
	ALL SOCKET TEE (T)
	FLANGED COUPLING (FC)
	FLANGED SOCKET (FS)
	STRAIGHT COUPLING (SC)
	FLANGE REDUCER (FR)
	REDUCER (R)
	END CAP (C)
	BEND (B)
	AIR RELEASE VALVE (ARV)
	WASH VALVE (WV)
	FIRE HYDRANT (FH)

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CONSULTANT:



PROJECT TITLE:

REUSE OF TREATED WASTEWATER FOR AGRICULTURE USE IN AL-MAWASI AREA, RAFAH, GAZA STRIP

Project Code.: 11473/OVERSEAS

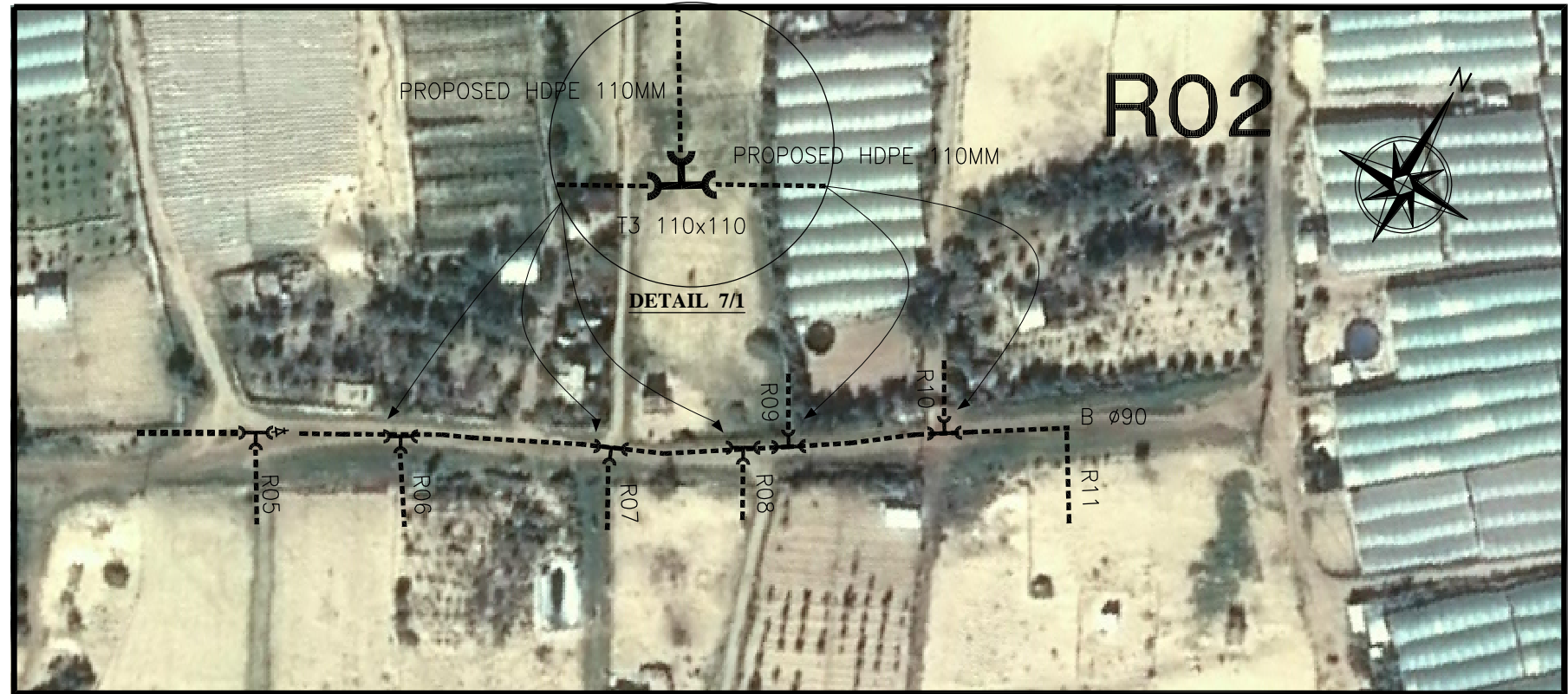
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PLAN & PROFILE FOR ROAD R02 FROM St. 0 to St. 37

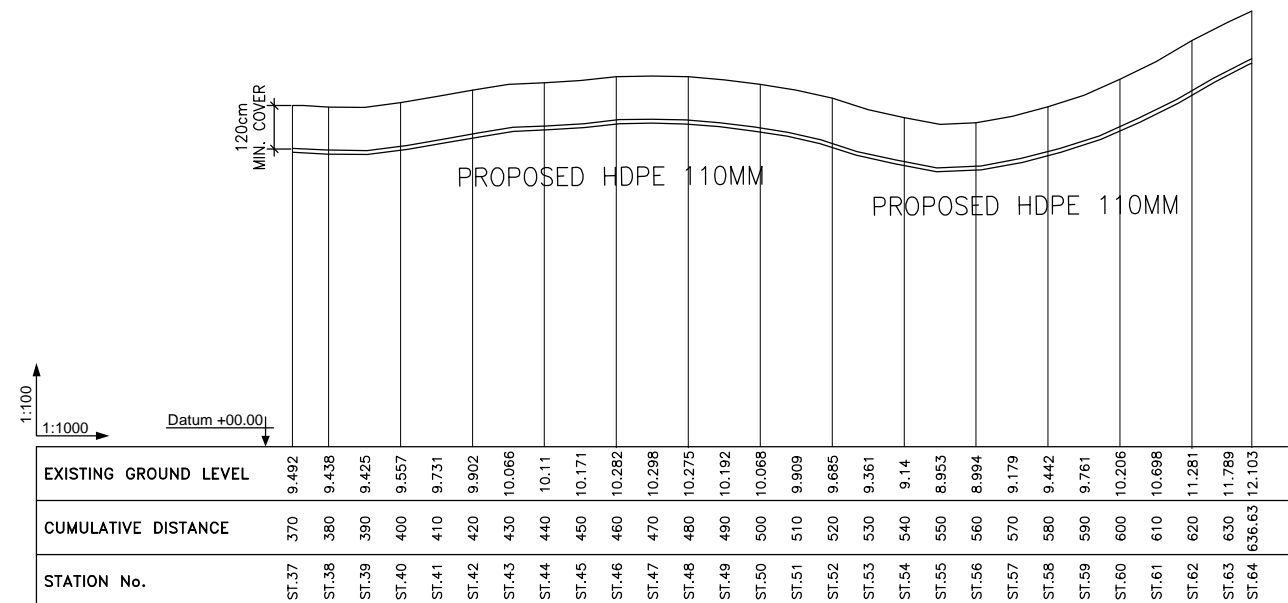
DRAWING NO.: CL-06

DATE: JULY 2020

SCALE: AS SHOWN



PLAN FOR R02 FROM St. 37 to St. 64
SCALE: 1:1000



PROFILE FOR ROAD R02

NOTES :-

- Paper Size: A1

ABBREVIATIONS & SYMBOLS	
	GATE VALVE, MANHOLE & TWO FLANGED COUPLING (GV, MH & 2FC)
	ALL FLANGED TEE (T3)
	DOUBLE FLANGED TEE (T2)
	DOUBLE SOCKET TEE (T1)
	ALL SOCKET TEE (T)
	FLANGED COUPLING (FC)
	FLANGED SOCKET (FS)
	STRAIGHT COUPLING (SC)
	FLANGE REDUCER (FR)
	REDUCER (R)
	END CAP (C)
	BEND (B)
	AIR RELEASE VALVE (ARV)
	WASH VALVE (WV)
	FIRE HYDRANT (FH)

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CONSULTANT:



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Project Code.: 11473/OVERSEAS

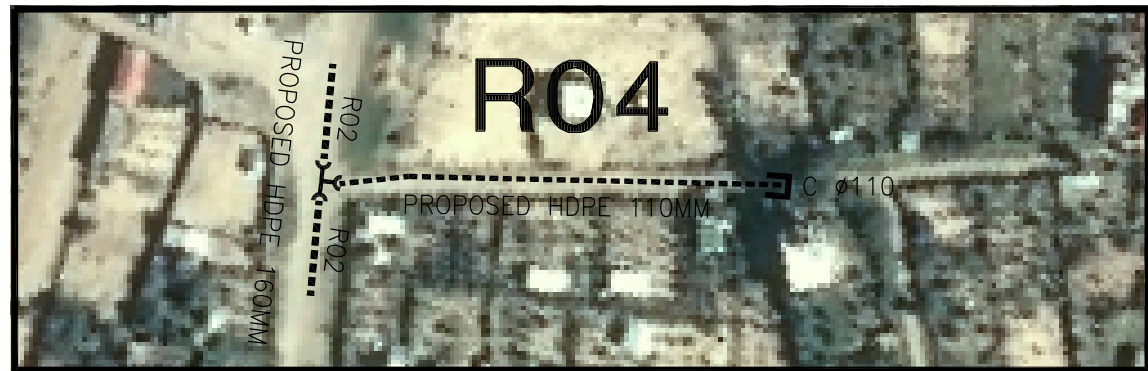
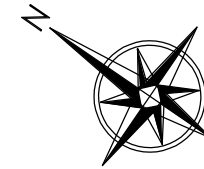
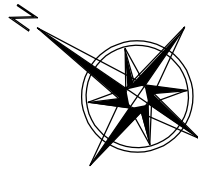
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PLAN & PROFILE FOR ROAD R02
FROM St. 37 to St. 64

DRAWING NO.: CL-07

DATE: JULY 2020

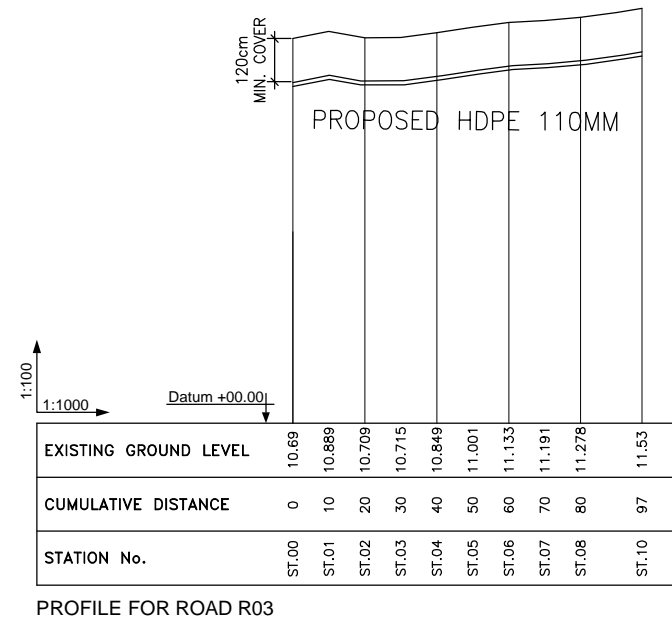
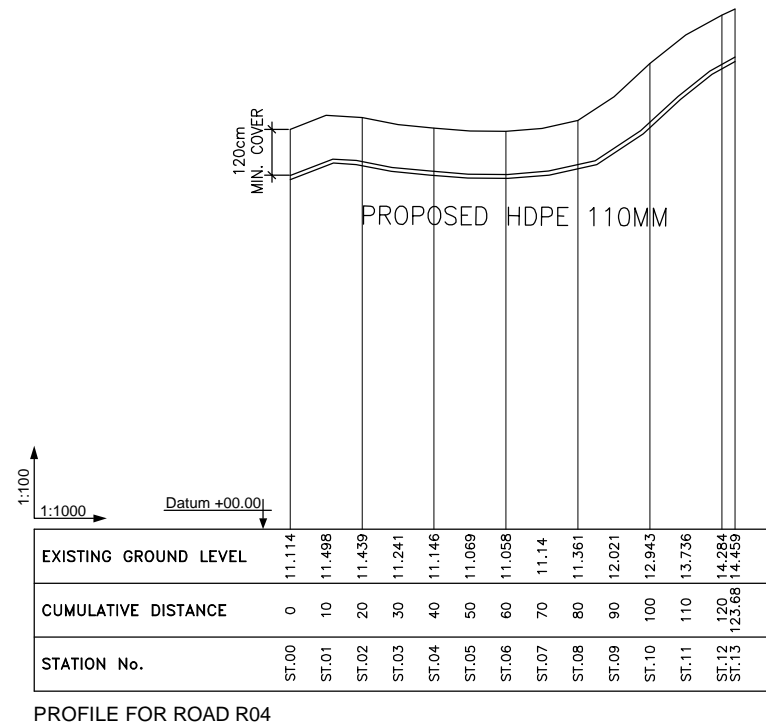
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PLAN FOR R04
SCALE: 1:1000



PLAN FOR R03
SCALE: 1:1000



NOTES :-

- Paper Size: A1

ABBREVIATIONS & SYMBOLS	
	GATE VALVE, MANHOLE & TWO FLANGED COUPLING (GV, MH & 2FC)
	ALL FLANGED TEE (T3)
	DOUBLE FLANGED TEE (T2)
	DOUBLE SOCKET TEE (T1)
	ALL SOCKET TEE (T)
	FLANGED COUPLING (FC)
	FLANGED SOCKET (FS)
	STRAIGHT COUPLING (SC)
	FLANGE REDUCER (FR)
	REDUCER (R)
	END CAP (C)
	BEND (B)
	AIR RELEASE VALVE (ARV)
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Project Code.: 11473/OVERSEAS

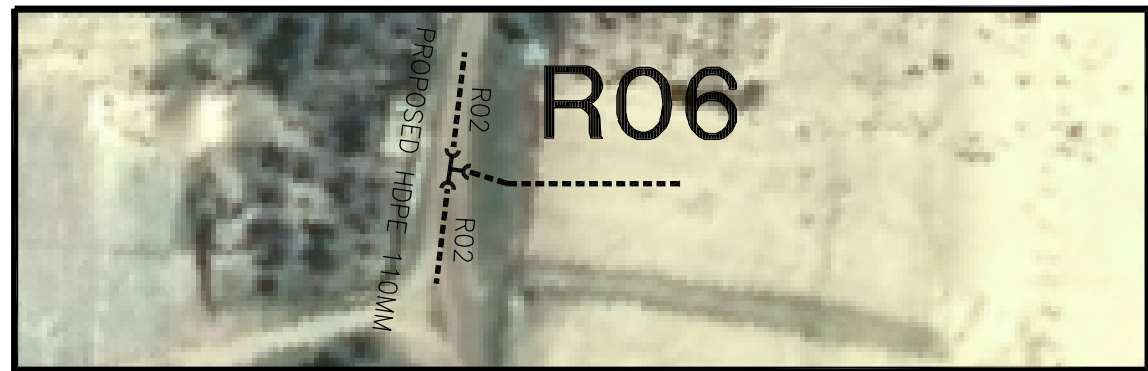
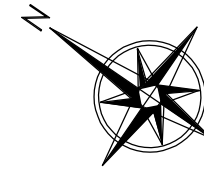
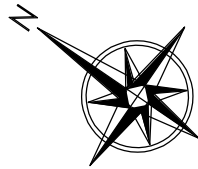
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PLAN & PROFILE FOR ROAD R03 AND R04

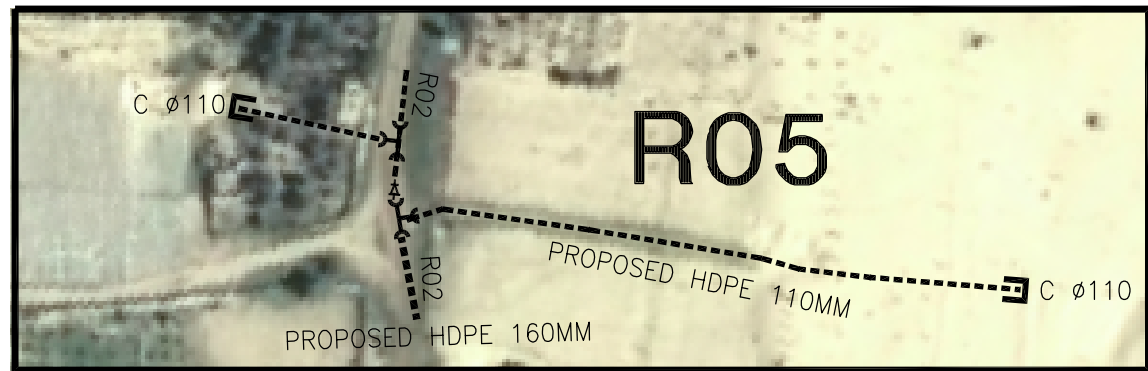
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DATE: JULY 2020

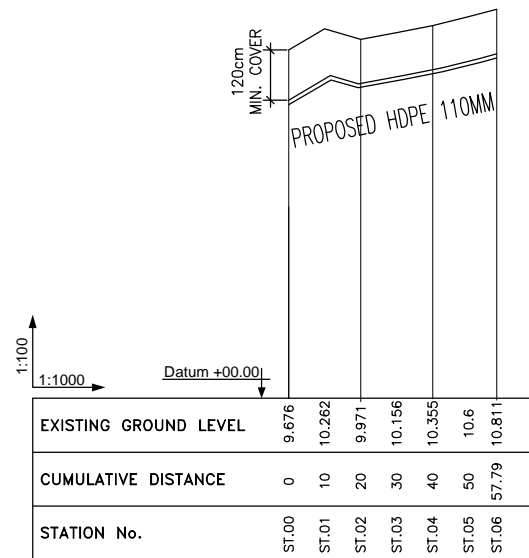
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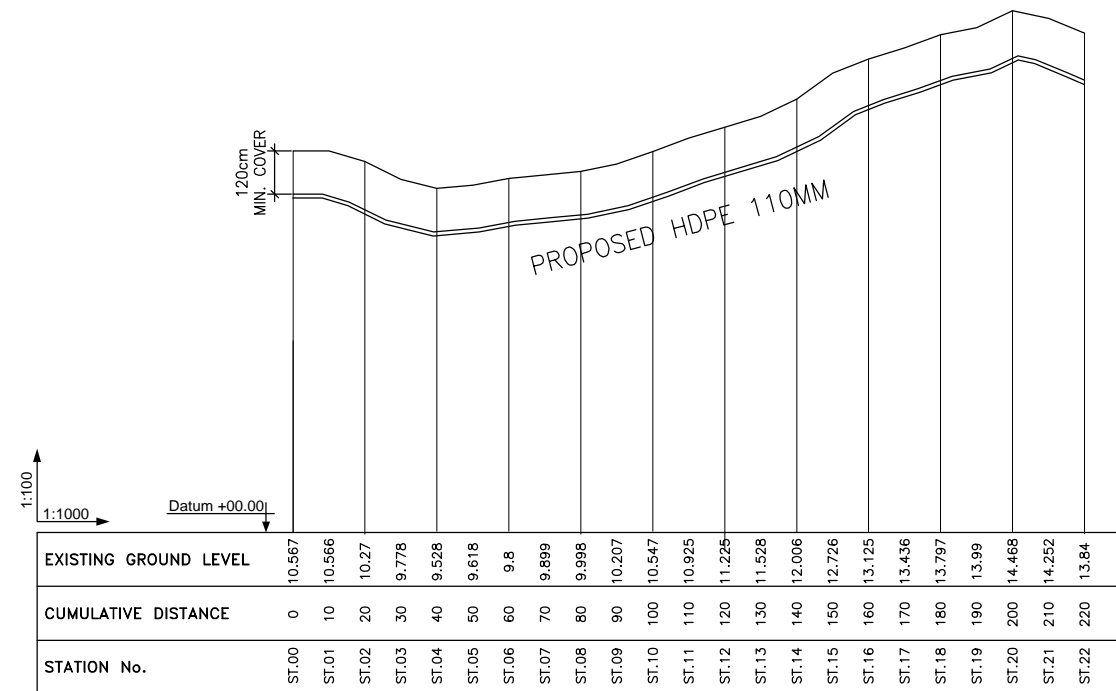
PLAN FOR R06
SCALE: 1:1000



PLAN FOR R05
SCALE: 1:1000



PROFILE FOR ROAD R06



PROFILE FOR ROAD R05

NOTES :-

- Paper Size: A1

ABBREVIATIONS & SYMBOLS	
	GATE VALVE, MANHOLE & TWO FLANGED COUPLING (GV, MH & 2FC)
	ALL FLANGED TEE (T3)
	DOUBLE FLANGED TEE (T2)
	DOUBLE SOCKET TEE (T1)
	ALL SOCKET TEE (T)
	FLANGED COUPLING (FC)
	FLANGED SOCKET (FS)
	STRAIGHT COUPLING (SC)
	FLANGE REDUCER (FR)
	REDUCER (R)
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	BEND (B)
	AIR RELEASE VALVE (ARV)
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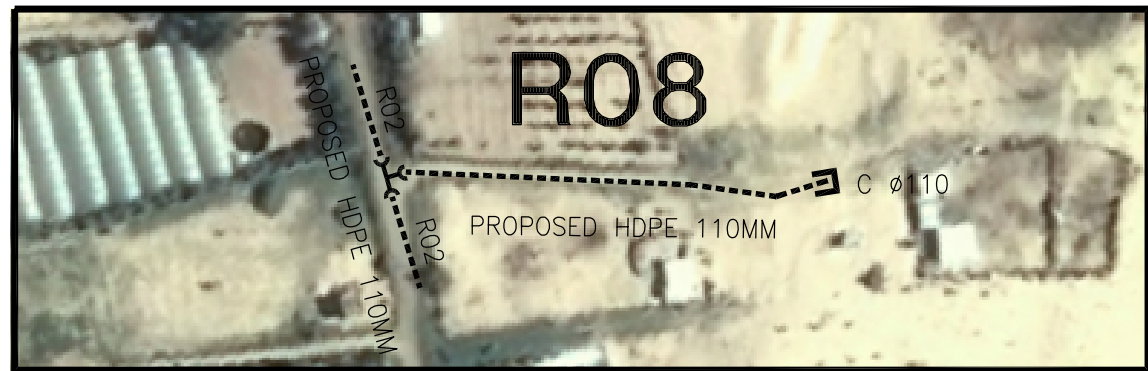
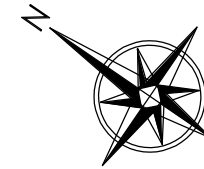
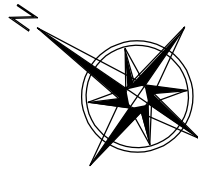
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PLAN & PROFILE FOR ROAD R05 AND R06

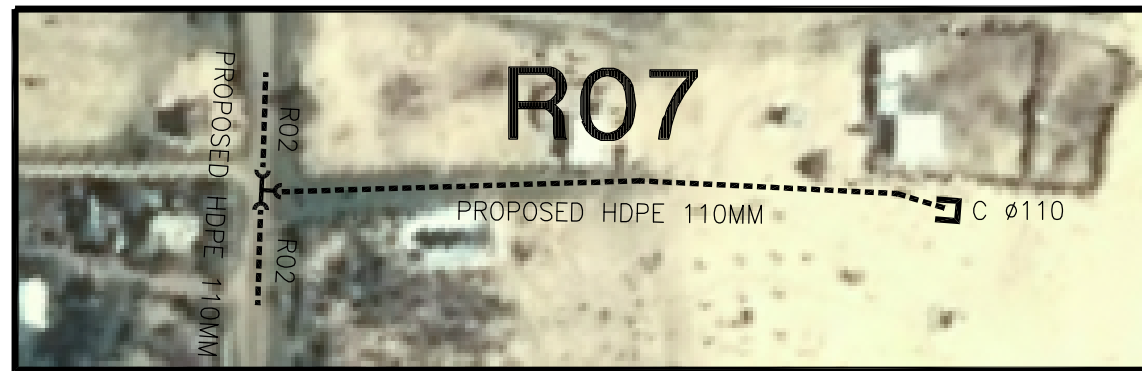
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DATE: JULY 2020

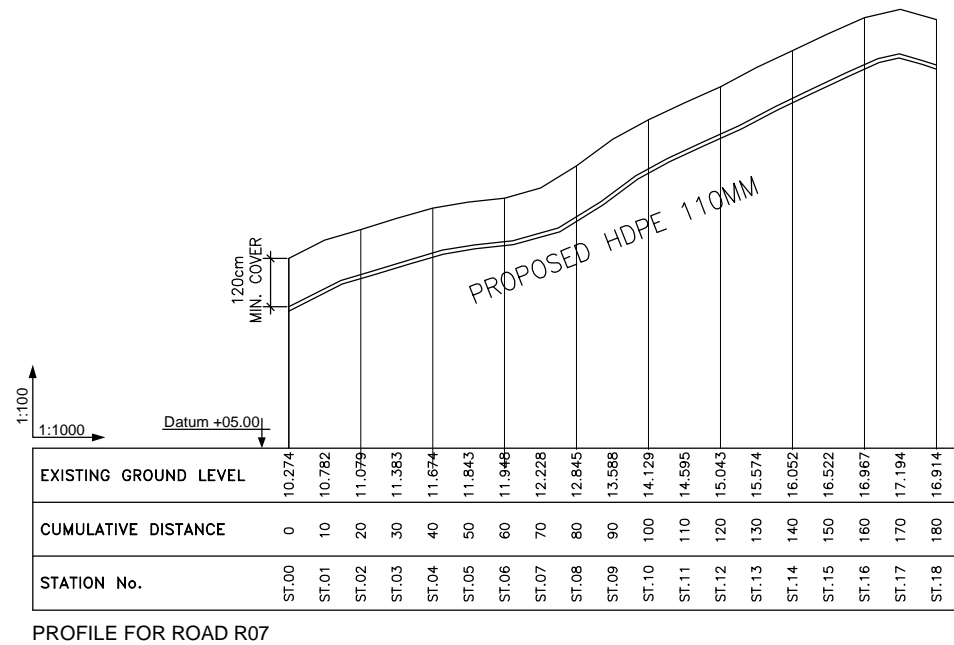
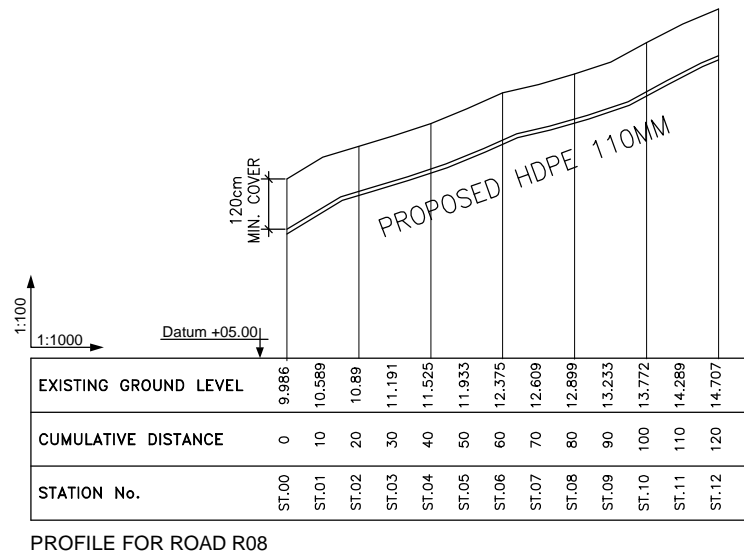
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PLAN FOR R08
SCALE: 1:1000



PLAN FOR R07
SCALE: 1:1000



NOTES :-

- Paper Size: A1

ABBREVIATIONS & SYMBOLS	
	GATE VALVE, MANHOLE & TWO FLANGED COUPLING (GV, MH & 2FC)
	ALL FLANGED TEE (T3)
	DOUBLE FLANGED TEE (T2)
	DOUBLE SOCKET TEE (T1)
	ALL SOCKET TEE (T)
	FLANGED COUPLING (FC)
	FLANGED SOCKET (FS)
	STRAIGHT COUPLING (SC)
	FLANGE REDUCER (FR)
	REDUCER (R)
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	WASH VALVE (WV)
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Project Code.: 11473/OVERSEAS

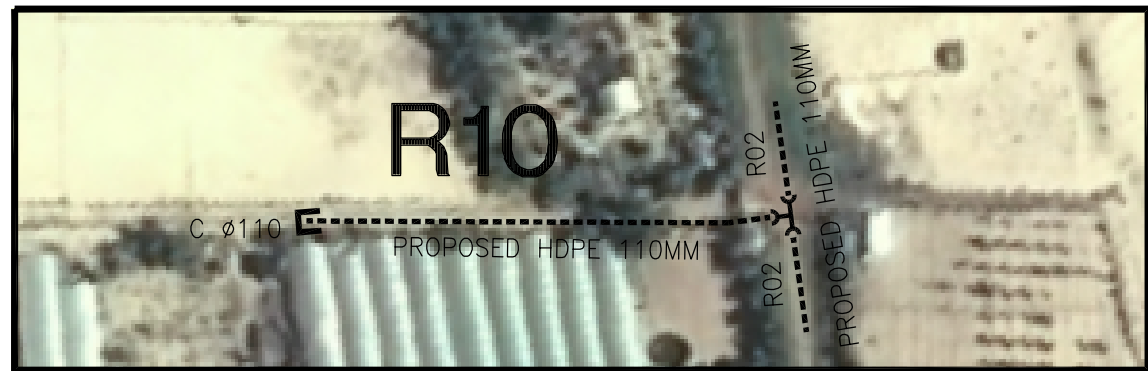
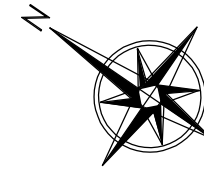
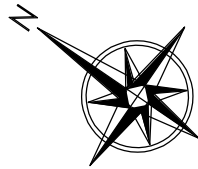
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PLAN & PROFILE FOR ROAD R07 AND R08

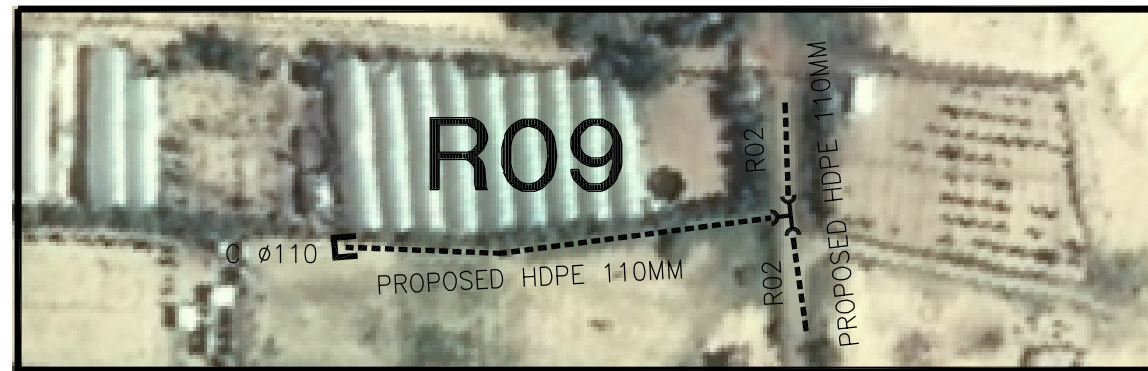
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DATE: JULY 2020

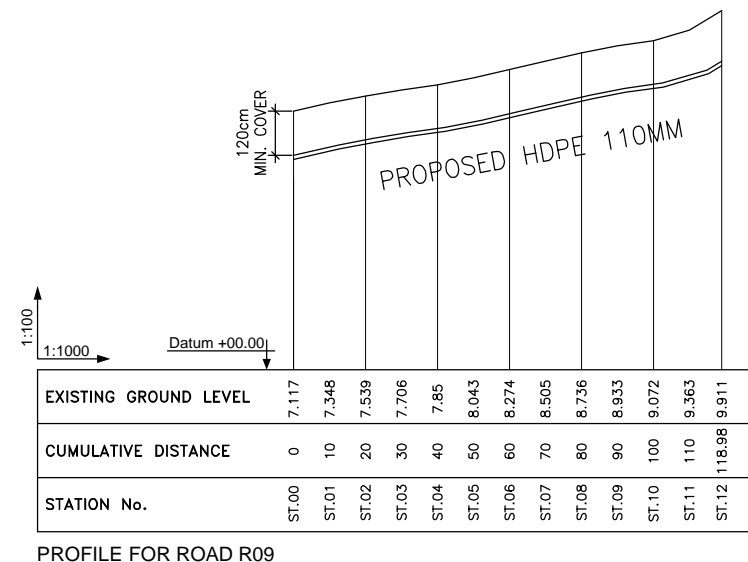
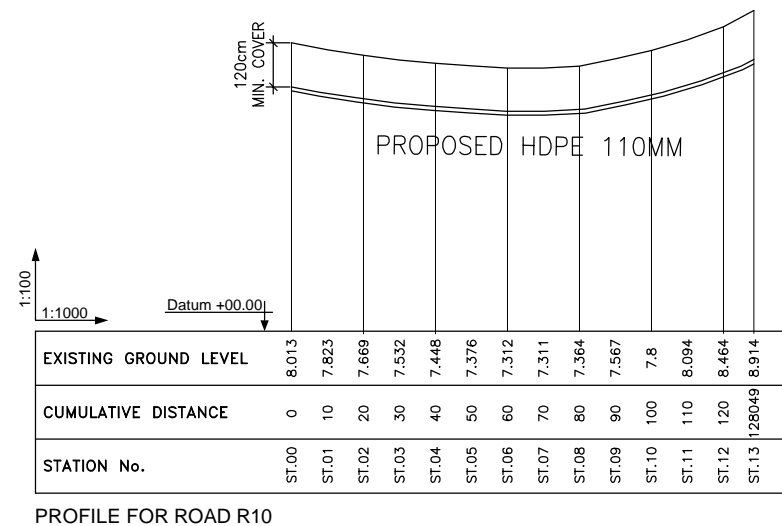
SCALE: AS SHOWN



PLAN FOR R10
SCALE: 1:1000



PLAN FOR R09
SCALE: 1:1000



NOTES :-

- Paper Size: A1

ABBREVIATIONS & SYMBOLS	
	GATE VALVE, MANHOLE & TWO FLANGED COUPLING (GV, MH & 2FC)
	ALL FLANGED TEE (T3)
	DOUBLE FLANGED TEE (T2)
	DOUBLE SOCKET TEE (T1)
	ALL SOCKET TEE (T)
	FLANGED COUPLING (FC)
	FLANGED SOCKET (FS)
	STRAIGHT COUPLING (SC)
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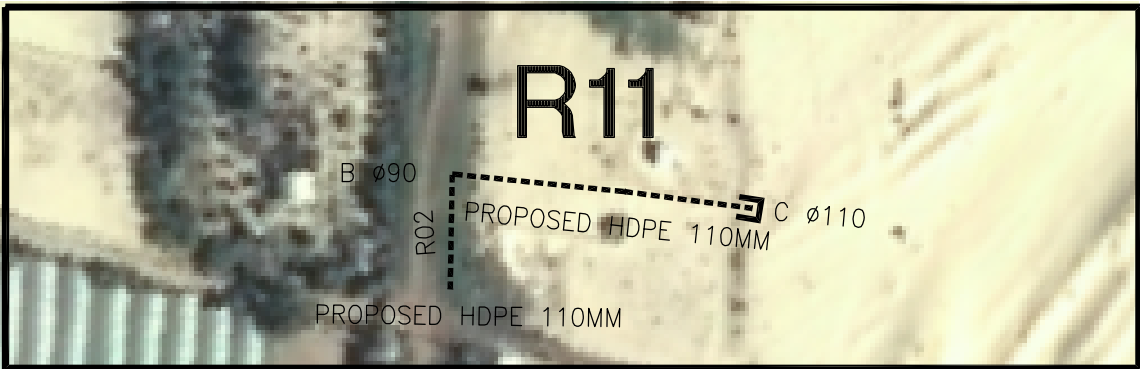
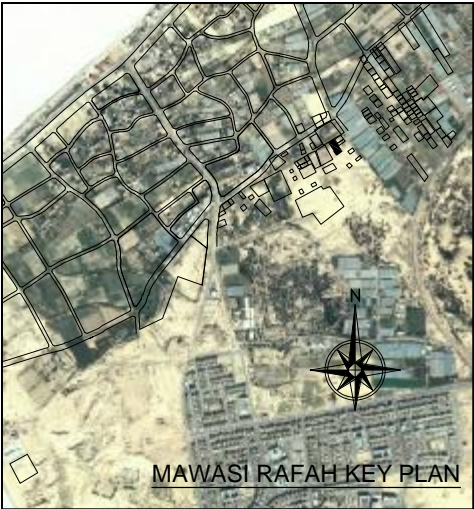
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PLAN & PROFILE FOR ROAD R09 AND R10

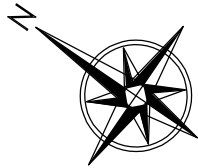
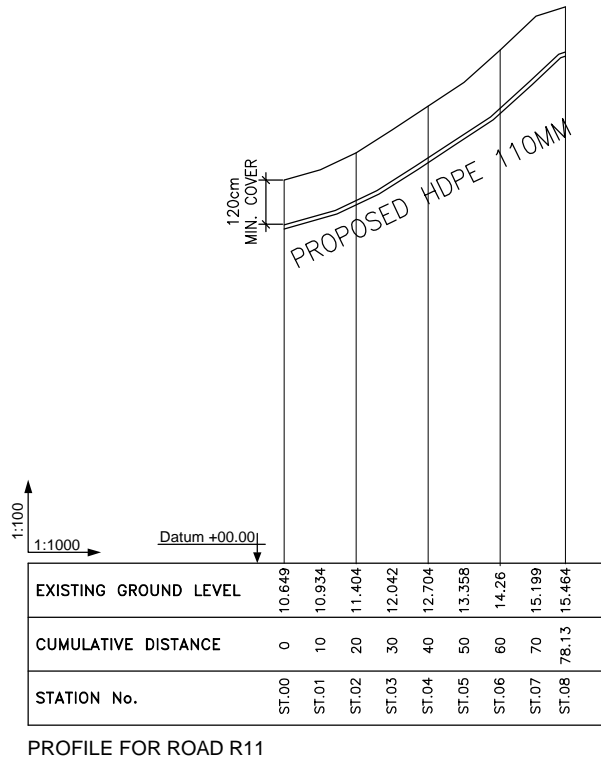
DRAWING NO.: CL-11

DATE: JULY 2020

SCALE: AS SHOWN



PLAN FOR R11
SCALE: 1:1000



NOTES :-

- Paper Size: A1

ABBREVIATIONS & SYMBOLS	
	GATE VALVE, MANHOLE & TWO FLANGED COUPLING (GV, MH & 2FC)
	ALL FLANGED TEE (T3)
	DOUBLE FLANGED TEE (T2)
	DOUBLE SOCKET TEE (T1)
	ALL SOCKET TEE (T)
	FLANGED COUPLING (FC)
	FLANGED SOCKET (FS)
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REUSE OF TREATED WASTEWATER FOR AGRICULTURE USE IN AL-MAWASI AREA, RAFAH, GAZA STRIP

Project Code.: 11473/OVERSEAS

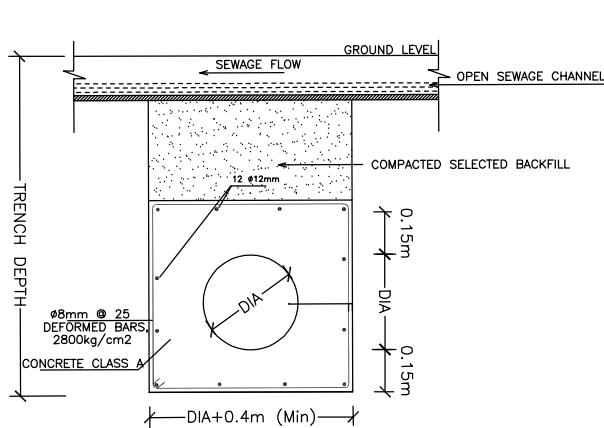
DRAWING TITLE:

PLAN & PROFILE FOR ROAD R11 AND R12

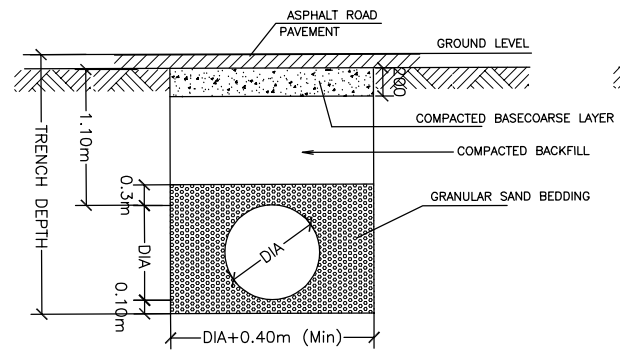
DRAWING NO.: CL-12

DATE: JULY 2020

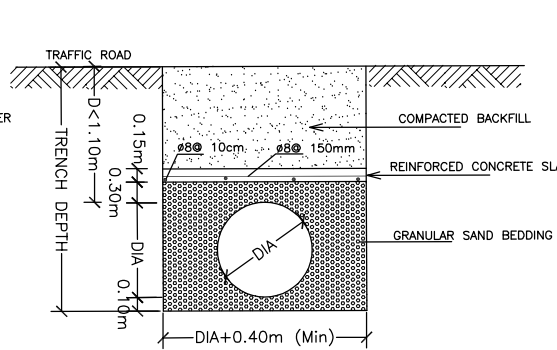
SCALE: AS SHOWN



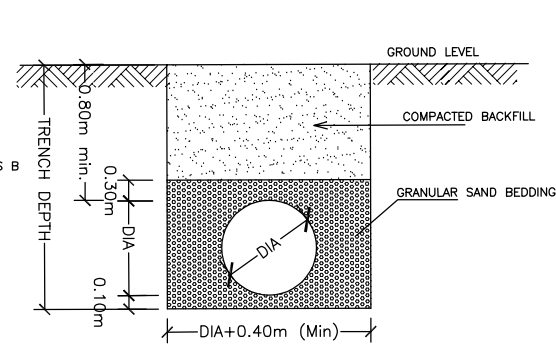
DETAIL OF PIPE LAYING IN CROSSING OPEN CHANNEL
(PIPE ENCASED)



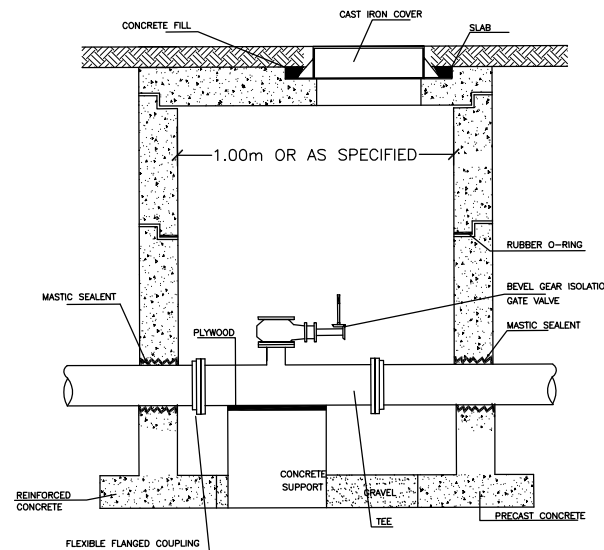
TYPICAL PIPE TRENCH IN TRAFFIC ROADS



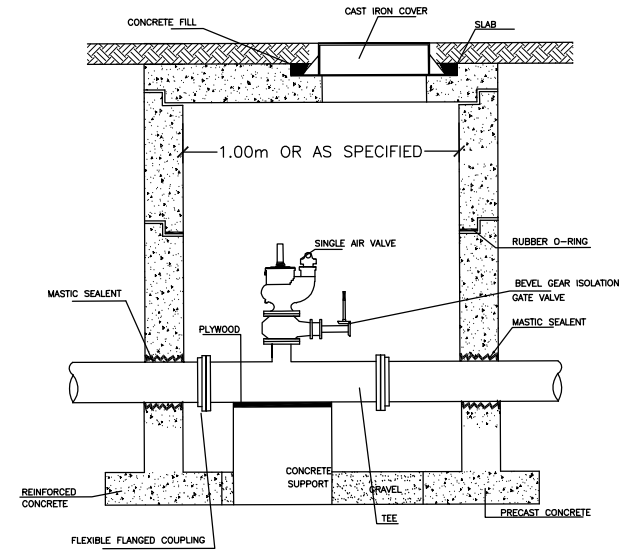
DETAIL FOR PROTECTIVE SLABS ABOVE PIPE
(PIPE ALONG TRAFFIC ROAD)



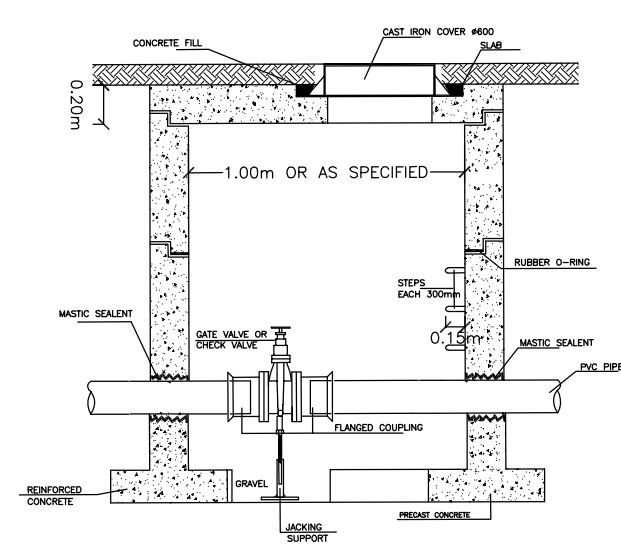
TYPICAL TRENCH CROSS SECTION
(PIPE ALONG ROADS OF NO TRAFFIC)



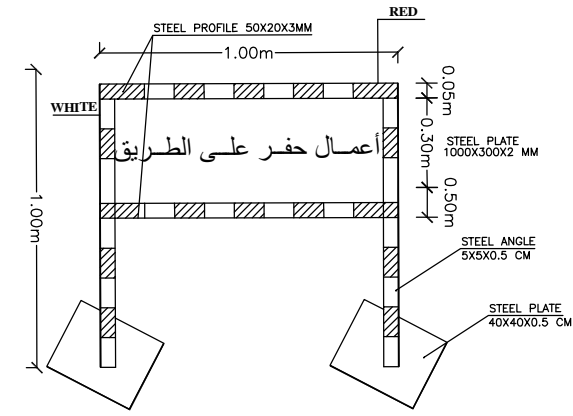
WASH VALVE CHAMBER SECTION



SINGLE AIR VALVE CHAMBER SECTION



PRECAST CONCRETE VALVES CHAMBER ON PVC PIPES



DETAIL FOR SAFETY BARRIERS
ALONG TRENCH, EACH 10 METERS

NOTES :-

- Paper Size: A1

ABBREVIATIONS & SYMBOLS	
	GATE VALVE, MANHOLE & TWO FLANGED COUPLING (GV, MH & 2FC)
	ALL FLANGED TEE (T3)
	DOUBLE FLANGED TEE (T2)
	DOUBLE SOCKET TEE (T1)
	ALL SOCKET TEE (T)
	FLANGED COUPLING (FC)
	FLANGED SOCKET (FS)
	STRAIGHT COUPLING (SC)
	FLANGE REDUCER (FR)
	REDUCER (R)
	END CAP (C)
	BEND (B)
	AIR RELEASE VALVE (ARV)
	WASH VALVE (WV)
	FIRE HYDRANT (FH)

FOR TENDER ONLY

FUNDED BY:

IMPLEMENTED BY:

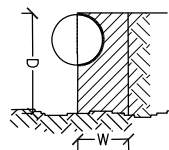
CONSULTANT:

PROJECT TITLE:
REUSE OF TREATED WASTEWATER FOR AGRICULTURE USE IN AL-MAWASH AREA, RAFAH, GAZA STRIP
Project Code.: 11473/OVERSEAS

DRAWING TITLE:
GENERAL DETAILS (1/2)

DRAWING NO.: CL-13

DATE: JULY 2020 SCALE: AS SHOWN

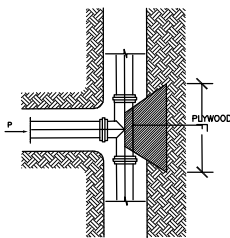


NOTES:

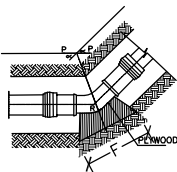
- ** END: CAPS OR BLANK FLANGES
- ** TEE: ALL SOCKETS, DOUBLE SOCKETS AND FLANGED TEES
- ** DIMENSIONS IN CM

ANCHOR BLOCKS

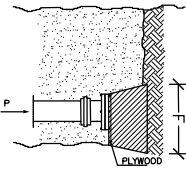
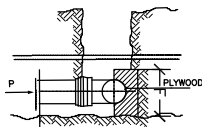
DIMENTION	FITTINGS																															
	250 & 300mm								200 & 225mm								160mm								110mm							
	B11 1/4	B22 1/2	B45	B90	110 ^{10"10"} 112 ^{12"}	125 ^{12"} 110 ^{10"}	END	B11 1/4	B22 1/2	B45	B90	125 ^{12"}	160 ^{16"} 18 ^{18"}	END	B11 1/4	B22 1/2	B45	B90	16 ^{16"}	18 ^{18"}	END	B11 1/4	B22 1/2	B45	B90	14 ^{14"}	14 ^{14"}	END				
WIDTH (W)	30	40	40	40	45	50	50	25	35	35	35	40	45	45	20	25	25	35	35	35	35	15	20	20	30	30	25	30				
AREA (F=LXD)	1925	2700	4400	1750	7800	7150	4875	1500	2200	3500	6000	6600	6000	4200	1000	1350	2400	4400	4050	3200	2000	600	875	1500	3150	3750	2600	1600				
LENGTH (L)	55	60	80	130	120	110	75	50	55	70	120	110	100	70	40	45	60	110	90	80	50	30	35	50	90	75	40	40				
DEPTH (D)	35	45	55	55	65	65	65	30	40	50	50	60	60	60	25	30	40	40	40	45	40	40	20	25	30	35	50	65	40			



ANCHOR BLOCK DIMENTIONS FOR TEES



ANCHOR BLOCK DIMENTIONS FOR BEND

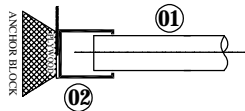


ANCHOR BLOCK DIMENTIONS FOR PIPE END

WATER NETWORK GENERAL DETAILS

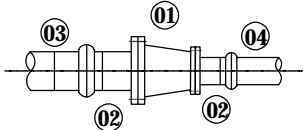
END CAP DETAILS

- 01 PROPOSED HDPE PIPE
- 02 END CAP



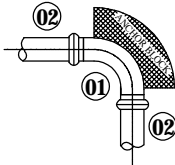
FLANGED REDUCER DETAILS

- 01 FLANGED REDUCER
- 02 FLANGED COUPLING
- 03 PROPOSED INLET PIPE
- 04 PROPOSED OUTLET PIPE



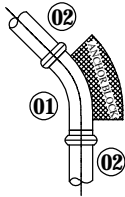
BEND 90° DETAILS

- 01 PROPOSED PIPES
- 02 BEND 90°



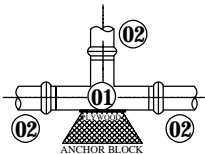
BEND 45° DETAILS

- 01 PROPOSED PIPES
- 02 BEND 45°



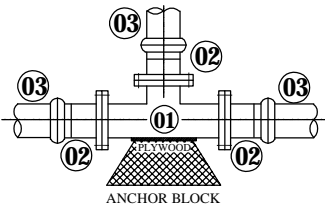
TEE ALL SOCKET (T) DETAILS

- 01 ALL SOCKET TEE
- 02 PROPOSED HDPE PIPES



TEE ALL FLANGE (T3) DETAILS

- 01 ALL FLANGED TEE
- 02 FLANGED COUPLING
- 04 PROPOSED PIPES
- 04 PROPOSED PIPES



NOTES :-

- Paper Size: A1

ABBREVIATIONS & SYMBOLS	
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	FLANGED SOCKET (FS)
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	END CAP (C)
	BEND (B)
	AIR RELEASE VALVE (ARV)
	WASH VALVE (WV)
	FIRE HYDRANT (FH)

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FUNDED BY:



IMPLEMENTED BY:



CONSULTANT:



PROJECT TITLE:

REUSE OF TREATED WASTEWATER FOR AGRICULTURE USE IN AL-MAWASHI AREA, RAFAH, GAZA STRIP

Project Code.: 11473/OVERSEAS

DRAWING TITLE:

GENERAL DETAILS (2/2)

DRAWING NO.: CL-14

DATE: JULY 2020 SCALE: AS SHOWN