



<div><div>MEDAIR</div><div>AFGHANISTAN MEDAIR WASH Development</div><div>WASH</div></div>	SURVEYED BY:	KHR - WASH Department	CHECKED BY:	Eng. Samiullah Azizi	SCALE:	1:xx	SHEET NO. <div><div>X</div><div>X</div></div>	PROVINCE:	KANDAHAR	PROJECT NAME:	REGWA Solar Powered Water Supply Network
	DESIGNED BY:	KHR - WASH Department	REVIEWED BY:	Eng. Waheedullah Majeed	DATE:			DISTRICT:	PANJWAI	DRAWING TITLE:	(Model colors showing Flow range)
	DRAWN BY:	KHR - WASH Department	APPROVED BY:	Simon Beswetherick	DRAWING NO.	SITE PLAN		VILLAGE:	REGWA (Dabak)	Label & Inner Dia. in Network while Label & Elevation in Junction	

تشریح پروژه شبکه آبرسانی قریه ریگوا (دبک) ولسوالۍ پنجوایی ولایت کندهار:

1. تعداد فامیل مجموعی این قریه (255) فامیل در (59) عدد هاوړ کنیکشن و (4) باب مسجد و یک باب مدرسه که در حدود 135 شاگردان اناث و ذکور دارد میباشد.
2. منبع : چای عمیق حفر می گردد که قرار گزارش سروی مقدار آبدهی چاه های چهار اطراف آن بیشتر از (3) لیتر فی ثانیه میباشد. و کوردینات آن در سایت پلان نشان داده شده است.
3. این شبکه نظر به ضرورت ساحه و آبدهی چاه به شکل شیردهن های خانه به خانه دیزاین گردیده است .
4. طول مجموعی پایپ های این شبکه آبرسانی تقریباً (3813) متر میباشد .
5. جهت ذخیره نمودن آب یک باب ذخیره ارتفاعی آب به حجم (30) متر مکعب از نوع کانکریتی سیخ دار در قریه در نظر گرفته شده. که کوردینات دقیق آن بصورت مشخص در سایت پلان شبکه آبرسانی ذکر گردیده اند.
6. در Site Plan بالائی هر پایپ طول و قطر آن نوشته شده ، همچنان بر علاوه جدول دیگر تحت نام جدول پایپ ها شامل این اسناد بوده که در آن نیز قطر و طول پایپ درج میباشد.
7. تمام کانکریت سخیدار باید مارک 200 داشته باشد که نسبت آن 1:1.5:3 (سمنت:ریگ:جغل) میباشد.
8. تمام کار سنگ کاری باید بامصالحه 1:4 (سمنت:ریگ) کار شود.
9. تمام کانکریت بیدون سیخ مارک 150 باشد که نسبت آن 1:2:4 (سمنت:ریگ:جغل) میباشد.
10. تمام کار پلسترکاری داخل ذخیره ضد نفوذ آب باید نسبت 1:3 (سمنت:ریگ) داشته باشد و حداقل 1 کیلوگرام پودر ضد نفوذ آب در یک بوری سمنت مخلوط گردد.
11. کار هنگاف کاری و پلسترکاری باید نسبت 1:3 (سمنت:ریگ) داشته باشد.
12. ذخیره یک منهل که مجهز به دروازه فلزی است که قفل شود و از ملوث شدن آب جلوگیری میشود.
13. آب سقف ذخیره و تمام ساختمان های مشابه کشیده شده تا آب باران یابرف این ساختمان ها را تخریب ننماید.
14. جهت ورود به ذخیره یک زینه فلزی است تا در وقت ضرورت جهت پائین شدن به این ساختمان از آن استفاده صورت گیرد.
15. کندنکاری جوی جهت گور نمودن پایپ باید (80) سانتی متر عمیق و 40 سانتی متر عرض در نظر گرفته شده خلاصه پایپ باید از عمق یخ بندان پایین تر جابجای شود.
16. پرکاری جویچه پایپ طوری صورت میگیرد که بالائی پایپ مواد نرم (خاک نرم و پاک) انداخته میشود تا از متضرر شدن پایپ جلوگیری صورت بگیرد.
17. آب ایکه در کارهای ساختمانی از آن استفاده صورت میگیرد کاملاً صاف و پاک است.

Design Data for Regwa (Dabak) village Water Supply Project

S #:	Description	Quantity	Unit	Remarks	
1	Number of family	255	Family		
2	Number of individual/family	7	Person		
3	Population growth rate	2.5	%		
4	Design duration	15	Year		
5	Demand/capita/day	25	LPCD		
6	Peak daily demand	2	Time		
7	Peak hourly demand	1	Hrs		
8	Current population	1785	Person		
9	Population (15 years growth)	2585.2	Person		
10	Water Demand	67861.8	Lit/day		
11	Water resource discharge	2.36	Lit/sec		
12	Number of Taps	Number of Family	Waiting Time	Flow in each Taps	Remarks Flow in each STP is different based on its existing population.
		(7 individual)	(Second)	Lit/sec	
13	59	255	3600	0.16	

Hydraulic Analysis Data of Regwa Village Solar Powered Water Supply Project

S #:	Label	Start Note:	End Note:	Length (M):	Outer Dia (mm):	Inner Dia (mm):	Materials	Hyziene Williams ©:	Flow (lit/sec):	Velocity (m/sec):	Headloss (M):	Remarks:
1	P-001	RVR	J# 01	13.36	110	96.8	PE100, PN10	140	7.32	0.995	0.011	
2	P-002	J# 01	J# 02	39.16	110	96.8	PE100, PN10	140	7.32	0.995	0.011	
3	P-003	J# 02	STP# 01	22.68	25	21.4	PE100, PN10	140	0.22	0.612	0.026	
4	P-004	J# 02	J# 03	42.52	110	96.8	PE100, PN10	140	7.1	0.965	0.01	
5	P-005	J# 03	STP# 02	16.66	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
6	P-006	J# 03	J# 04	4.6	110	96.8	PE100, PN10	140	6.99	0.95	0.01	
7	P-007	J# 04	J# 05	8.17	110	96.8	PE100, PN10	140	4.48	0.609	0.004	
8	P-008	J# 05	STP# 03	14.07	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
9	P-009	J# 05	J# 06	15.73	90	79.2	PE100, PN10	140	4.37	0.887	0.011	
10	P-010	J# 06	STP# 04	18.77	25	21.4	PE100, PN10	140	0.22	0.612	0.026	
11	P-011	J# 06	J# 07	37.01	90	79.2	PE100, PN10	140	4.15	0.842	0.01	
12	P-012	J# 07	STP# 05	9.62	25	21.4	PE100, PN10	140	0.22	0.612	0.026	
13	P-013	J# 07	B# 01	37.68	90	79.2	PE100, PN10	140	3.93	0.798	0.009	
14	P-014	B# 01	B# 02	64.65	90	79.2	PE100, PN10	140	3.93	0.798	0.009	
15	P-015	B# 02	J# 08	18.33	90	79.2	PE100, PN10	140	3.93	0.798	0.009	
16	P-016	J# 08	STP# 06	20.31	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
17	P-017	J# 08	J# 09	8.85	90	79.2	PE100, PN10	140	3.82	0.775	0.009	
18	P-018	J# 09	STP# 07	26.02	20	16.4	PE100, PN12.5	140	0.15	0.71	0.046	
19	P-019	J# 09	J# 10	11.68	90	79.2	PE100, PN10	140	3.67	0.745	0.008	
20	P-020	J# 10	J# 11	17.24	32	28.2	PE100, PN10	140	0.62	0.993	0.046	
21	P-021	J# 11	STP# 08	33.86	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
22	P-022	J# 11	J# 12	14.23	32	28.2	PE100, PN10	140	0.51	0.817	0.032	
23	P-023	J# 12	STP# 09	21.86	25	21.4	PE100, PN10	140	0.18	0.5	0.018	
24	P-024	J# 12	J# 13	52.87	32	28.2	PE100, PN10	140	0.33	0.528	0.014	
25	P-025	J# 13	STP# 10	8.05	20	16.4	PE100, PN12.5	140	0.15	0.71	0.046	
26	P-026	J# 13	STP# 11	79.08	25	21.4	PE100, PN10	140	0.18	0.5	0.018	
27	P-027	J# 10	J# 14	10.8	75	66.0	PE100, PN10	140	3.05	0.892	0.014	
28	P-028	J# 14	STP# 12	10.58	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
29	P-029	J# 14	J# 15	11.18	75	66.0	PE100, PN10	140	2.94	0.859	0.013	
30	P-030	J# 15	STP# 13	12.91	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
31	P-031	J# 15	J# 16	30.61	75	66.0	PE100, PN10	140	2.83	0.827	0.012	
32	P-032	J# 16	STP# 14	13.83	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
33	P-033	J# 16	J# 17	41.95	75	66.0	PE100, PN10	140	2.72	0.795	0.011	
34	P-034	J# 17	STP# 15	18.11	25	21.4	PE100, PN10	140	0.22	0.612	0.026	
35	P-035	J# 17	J# 17 (a)	13.44	75	66.0	PE100, PN10	140	2.5	0.731	0.01	
36	P-036	J# 17 (a)	STP# 16	14.19	25	21.4	PE100, PN10	140	0.26	0.416	0.009	
37	P-037	J# 17 (a)	J# 18	16.16	75	66.0	PE100, PN10	140	2.24	0.655	0.008	
38	P-038	J# 18	J# 19	35.77	40	35.2	PE100, PN10	140	0.48	0.493	0.01	
39	P-039	J# 19	STP# 17	27.63	20	16.4	PE100, PN12.5	140	0.15	0.71	0.046	
40	P-040	J# 19	J# 19 (a)	59.95	32	28.2	PE100, PN10	140	0.33	0.528	0.014	
41	P-041	J# 19 (a)	STP# 18	13.47	25	21.4	PE100, PN10	140	0.18	0.5	0.018	
			STP# 18 (a)	21.25	25	21.4	PE100, PN10	140	0.15	0.417	0.013	

Hydraulic Analysis Data of Regwa Village Solar Powered Water Supply Project

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43	P-043	J# 18	J# 18 (a)	8.95	63	55.4	PE100, PN10	140	1.76	0.73	0.012	
44	P-044	J# 18 (a)	J# 23	11.79	40	35.2	PE100, PN10	140	0.66	0.678	0.018	
45	P-045	J# 23	STP# 22	8.41	25	21.4	PE100, PN10	140	0.26	0.723	0.035	
46	P-046	J# 23	B# 03	19.69	32	28.2	PE100, PN10	140	0.4	0.64	0.02	
47	P-047	B# 03	J# 20	77.47	32	28.2	PE100, PN10	140	0.4	0.64	0.02	
48	P-048	J# 20	J# 21	14.37	32	28.2	PE100, PN10	140	0.4	0.64	0.02	
49	P-049	J# 21	STP# 19	28.26	25	21.4	PE100, PN10	140	0.18	0.5	0.018	
50	P-050	J# 21	J# 22	33.85	25	21.4	PE100, PN10	140	0.22	0.612	0.026	
51	P-051	J# 22	STP# 20	21.59	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
52	P-052	J# 22	STP# 21	23.24	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
53	P-053	J# 18 (a)	J# 24	25.52	50	44.0	PE100, PN10	140	1.1	0.723	0.015	
54	P-054	J# 24	STP# 23	38.37	25	21.4	PE100, PN10	140	0.22	0.612	0.026	
55	P-055	J# 24	J# 25	50.81	50	44.0	PE100, PN10	140	0.88	0.579	0.01	
56	P-056	J# 25	STP# 24	11.56	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
57	P-057	J# 25	J# 26	18.64	40	35.2	PE100, PN10	140	0.77	0.791	0.023	
58	P-058	J# 26	STP# 25	56.73	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
59	P-059	J# 26	J# 27	46.56	40	35.2	PE100, PN10	140	0.66	0.678	0.017	
60	P-060	J# 27	STP# 26	24.89	25	21.4	PE100, PN10	140	0.22	0.612	0.026	
61	P-061	J# 27	J# 28	50.5	32	28.2	PE100, PN10	140	0.44	0.704	0.024	
62	P-062	J# 28	STP# 27	9.73	25	21.4	PE100, PN10	140	0.18	0.5	0.018	
63	P-063	J# 28	STP# 28	52.05	25	21.4	PE100, PN10	140	0.26	0.723	0.035	
64	P-064	J# 04	J# 29	25.22	75	66.0	PE100, PN10	140	2.51	0.734	0.01	
65	P-065	J# 29	J# 31	24.07	50	44.0	PE100, PN10	140	1.44	0.947	0.025	
66	P-066	J# 31	STP# 31	15.79	25	21.4	PE100, PN10	140	0.18	0.5	0.018	
67	P-067	J# 31	J# 31 (a)	42.33	50	44.0	PE100, PN10	140	1.26	0.829	0.02	
68	P-068	J# 31 (a)	STP# 32	17.37	25	21.4	PE100, PN10	140	0.22	0.612	0.026	
69	P-069	J# 31 (a)	J# 32	22.3	40	35.2	PE100, PN10	140	1.04	1.069	0.041	
70	P-070	J# 32	STP# 33	21.08	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
71	P-071	J# 32	J# 33	8.02	40	35.2	PE100, PN10	140	0.93	0.956	0.033	
72	P-072	J# 33	STP# 34	37.6	25	21.4	PE100, PN10	140	0.26	0.723	0.035	
73	P-073	J# 33	J# 34	21.12	40	35.2	PE100, PN10	140	0.67	0.688	0.018	
74	P-074	J# 34	J# 35	13.94	25	21.4	PE100, PN10	140	0.3	0.834	0.046	
75	P-075	J# 35	STP# 35	20.66	20	16.4	PE100, PN12.5	140	0.15	0.71	0.046	
76	P-076	J# 35	STP# 36	14.3	20	16.4	PE100, PN12.5	140	0.15	0.71	0.046	
77	P-077	J# 34	J# 36	48.6	32	28.2	PE100, PN10	140	0.37	0.592	0.018	
78	P-078	J# 36	STP# 37	28.16	25	21.4	PE100, PN10	140	0.15	0.417	0.013	
79	P-079	J# 36	J# 37	47.27	25	21.4	PE100, PN10	140	0.22	0.612	0.026	
80	P-080	J# 37	STP# 38	28.38	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
81	P-081	J# 37	STP# 39	34.68	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
82	P-082	J# 29	J# 30	19.97	63	55.4	PE100, PN10	140	1.07	0.444	0.005	
83	P-083	J# 30	STP# 29	30.17	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
84	P-084	J# 30	J# 38	50.48	50	44.0	PE100, PN10	140	0.96	0.631	0.012	

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85	P-085	J# 38	STP# 30	37.76	25	21.4	PE100, PN10	140	0.18	0.5	0.018	
86	P-086	J# 38	B# 04	28.75	50	44.0	PE100, PN10	140	0.78	0.513	0.008	
87	P-087	B# 04	B# 05	13.99	50	44.0	PE100, PN10	140	0.78	0.513	0.008	
88	P-088	B# 05	J# 39	21.33	50	44.0	PE100, PN10	140	0.78	0.513	0.008	
89	P-089	J# 39	STP# 40	23.31	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
90	P-090	J# 39	J# 40	11.26	40	35.2	PE100, PN10	140	0.67	0.688	0.018	
91	P-091	J# 40	STP# 41	27.57	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
92	P-092	J# 40	J# 41	23.96	40	35.2	PE100, PN10	140	0.56	0.575	0.013	
93	P-093	J# 41	STP# 42	53.93	20	16.4	PE100, PN12.5	140	0.15	0.71	0.046	
94	P-094	J# 41	J# 42	23.73	40	35.2	PE100, PN10	140	0.41	0.421	0.007	
95	P-095	J# 42	STP# 43	23.35	20	16.4	PE100, PN12.5	140	0.15	0.71	0.046	
96	P-096	J# 42	J# 43	48.74	32	28.2	PE100, PN10	140	0.26	0.416	0.009	
97	P-097	J# 43	STP# 44	26.91	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
98	P-098	J# 43	STP# 45	32.15	20	16.4	PE100, PN12.5	140	0.15	0.71	0.046	
99	P-099	RVR	J# 01 (a)	13.97	90	79.2	PE100, PN10	140	2.06	0.418	0.003	
100	P-100	J# 01 (a)	J# 44	32.86	90	79.2	PE100, PN10	140	2.06	0.418	0.003	
101	P-101	J# 44	STP# 46	17.61	20	16.4	PE100, PN12.5	140	0.22	1.041	0.094	
102	P-102	J# 44	J# 45	13.53	75	66.0	PE100, PN10	140	1.84	0.538	0.005	
103	P-103	J# 45	J# 45 (a)	20.67	25	21.4	PE100, PN10	140	0.3	0.834	0.046	
104	P-104	J# 45 (a)	STP# 47	17.38	20	16.4	PE100, PN12.5	140	0.15	0.71	0.046	
105	P-105	J# 45 (a)	STP# 47 (a)	26.94	20	16.4	PE100, PN12.5	140	0.15	0.71	0.046	
106	P-106	J# 45	J# 46	43.05	75	66.0	PE100, PN10	140	1.54	0.45	0.004	
107	P-107	J# 46	STP# 48	51.23	20	16.4	PE100, PN12.5	140	0.18	0.852	0.065	
108	P-108	J# 46	J# 47	31.12	75	66.0	PE100, PN10	140	1.36	0.398	0.003	
109	P-109	J# 47	STP# 49	10.14	20	16.4	PE100, PN12.5	140	0.15	0.71	0.046	
110	P-110	J# 47	J# 48	83.84	63	55.4	PE100, PN10	140	1.21	0.502	0.006	
111	P-111	J# 48	STP# 50	39.95	25	21.4	PE100, PN10	140	0.18	0.5	0.018	
112	P-112	J# 48	J# 49	59.25	63	55.4	PE100, PN10	140	1.03	0.427	0.004	
113	P-113	J# 49	STP# 51	121.94	25	21.4	PE100, PN10	140	0.15	0.417	0.013	
114	P-114	J# 49	J# 50	52.06	63	55.4	PE100, PN10	140	0.88	0.365	0.003	
115	P-115	J# 50	STP# 52	20	20	16.4	PE100, PN12.5	140	0.15	0.71	0.046	
116	P-116	J# 50	J# 51	99.84	50	44.0	PE100, PN10	140	0.73	0.48	0.007	
117	P-117	J# 51	STP# 53	21.6	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
118	P-118	J# 51	J# 52	69.6	40	35.2	PE100, PN10	140	0.62	0.637	0.016	
119	P-119	J# 52	STP# 54	11.37	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
120	P-120	J# 52	J# 53	13.91	40	35.2	PE100, PN10	140	0.51	0.524	0.011	
121	P-121	J# 53	STP# 55	35.19	25	21.4	PE100, PN10	140	0.18	0.5	0.018	
122	P-122	J# 53	J# 54	13.72	32	28.2	PE100, PN10	140	0.33	0.528	0.014	
123	P-123	J# 54	STP# 56	18.75	20	16.4	PE100, PN12.5	140	0.11	0.521	0.026	
124	P-124	J# 54	STP# 57	47.76	25	21.4	PE100, PN10	140	0.22	0.612	0.026	
125												

Joints Tabel of Regwa village Solar Powered Water Supply Project								
S #:	Label	Easting (X):	Northing (Y):	Elevation (M):	Demand (lit/sec):	Hydraulic Grade (M):	Pressure (m H2O):	Remarks
1	B# 01	738685.42	3482374.87	940.0	0	949.01	8.99	
2	B# 02	738639.37	3482341.94	941.7	0	948.42	6.70	
3	B# 03	738619.23	3482539.61	940.2	0	945.97	5.75	
4	B# 04	738729.09	3482187.76	941.5	0	948.77	7.26	
5	B# 05	738717.84	3482181.42	941.0	0	948.66	7.65	
6	J# 01	738800.01	3482313.93	942.0	0	950.85	8.84	
7	J# 01 (a)	738806.30	3482313.39	942.0	0	950.96	8.94	
8	J# 02	738760.89	3482312.09	942.5	0	950.43	7.91	
9	J# 03	738718.41	3482310.37	940.9	0	949.99	9.07	
10	J# 04	738713.83	3482309.94	940.7	0	949.94	9.22	
11	J# 05	738713.80	3482318.11	941.0	0	949.91	8.89	
12	J# 06	738714.60	3482333.81	940.9	0	949.73	8.81	
13	J# 07	738711.57	3482370.70	940.8	0	949.35	8.54	
14	J# 08	738635.55	3482358.78	942.0	0	948.25	6.23	
15	J# 09	738634.89	3482367.60	941.6	0	948.17	6.56	
16	J# 10	738631.53	3482378.78	941.1	0	948.08	6.96	
17	J# 11	738615.52	3482372.37	941.3	0	947.28	5.97	
18	J# 12	738603.10	3482365.42	941.5	0	946.83	5.32	
19	J# 13	738554.53	3482348.77	942.0	0	946.08	4.07	
20	J# 14	738629.41	3482389.38	940.6	0	947.93	7.31	
21	J# 15	738628.97	3482400.54	940.1	0	947.78	7.66	
22	J# 16	738621.47	3482429.98	939.1	0	947.41	8.29	
23	J# 17	738622.05	3482471.10	938.2	0	946.94	8.72	
24	J# 17 (a)	738623.85	3482484.42	938.2	0	946.81	8.59	
25	J# 18	738626.20	3482500.41	938.4	0	946.68	8.26	
26	J# 18 (a)	738624.48	3482509.18	938.4	0	946.57	8.16	
27	J# 19	738660.78	3482506.99	940.6	0	946.33	5.72	
28	J# 19 (a)	738709.08	3482524.79	942.8	0	945.48	2.67	
29	J# 20	738543.24	3482530.37	940.2	0	944.39	4.18	
30	J# 21	738546.58	3482516.39	939.8	0	944.09	4.28	
31	J# 22	738521.71	3482506.89	939.3	0	943.22	3.91	
32	J# 23	738623.65	3482520.95	939.0	0	946.37	7.35	

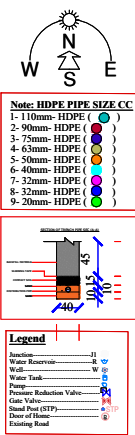
Joints Tabel of Regwa village Solar Powered Water Supply Project								
S #:	Label	Easting (X):	Northing (Y):	Elevation (M):	Demand (lit/sec):	Hydraulic Grade (M):	Pressure (m H2O):	Remarks
33	J# 24	738601.17	3482501.88	938.1	0	946.18	8.07	
34	J# 25	738555.75	3482481.65	938.0	0	945.67	7.66	
35	J# 26	738537.58	3482477.51	937.7	0	945.24	7.52	
36	J# 27	738491.04	3482476.21	937.5	0	944.43	6.91	
37	J# 28	738440.92	3482472.34	937.0	0	943.20	6.18	
38	J# 29	738712.30	3482285.21	940.3	0	949.70	9.38	
39	J# 30	738714.92	3482265.41	941.3	0	949.60	8.29	
40	J# 31	738688.39	3482282.44	939.6	0	949.09	9.47	
41	J# 31 (a)	738663.29	3482287.34	940.2	0	948.27	8.05	
42	J# 32	738641.63	3482286.54	940.8	0	947.36	6.55	
43	J# 33	738641.36	3482278.52	940.9	0	947.10	6.18	
44	J# 34	738621.83	3482270.49	941.3	0	946.72	5.41	
45	J# 35	738615.89	3482283.09	940.8	0	946.08	5.27	
46	J# 36	738574.51	3482260.41	942.1	0	945.86	3.75	
47	J# 37	738530.01	3482252.31	939.7	0	944.64	4.93	
48	J# 38	738725.16	3482216.24	941.9	0	949.01	7.09	
49	J# 39	738717.27	3482160.10	940.7	0	948.49	7.78	
50	J# 40	738716.59	3482148.86	940.4	0	948.29	7.87	
51	J# 41	738715.77	3482124.92	941.0	0	947.98	6.97	
52	J# 42	738710.99	3482101.68	942.1	0	947.81	5.70	
53	J# 43	738757.38	3482089.97	943.4	0	947.36	3.95	
54	J# 44	738839.04	3482314.43	942.9	0	950.87	7.95	
55	J# 45	738852.58	3482314.55	943.0	0	950.80	7.78	
56	J# 45 (a)	738848.23	3482297.91	943.0	0	949.85	6.83	
57	J# 46	738892.01	3482323.08	942.3	0	950.63	8.31	
58	J# 47	738890.69	3482353.99	944.0	0	950.53	6.52	
59	J# 48	738968.81	3482353.45	942.0	0	950.03	8.02	
60	J# 49	738985.48	3482406.26	942.3	0	949.78	7.46	
61	J# 50	738972.93	3482455.63	942.3	0	949.60	7.29	
62	J# 51	738908.35	3482484.70	941.2	0	948.89	7.68	
63	J# 52	738840.40	3482473.19	943.9	0	947.81	3.90	
64	J# 53	738828.77	3482465.57	943.5	0	947.66	4.15	

Joints Tabel of Regwa village Solar Powered Water Supply Project



S #:	Label	Easting (X):	Northing (Y):	Elevation (M):	Demand (lit/sec):	Hydraulic Grade (M):	Pressure (m H2O):	Remarks
65	J# 54	738817.08	3482458.37	943.0	0	947.46	4.45	
66	STP# 01	738767.99	3482333.63	942.4	0.22	949.84	7.43	
67	STP# 02	738723.83	3482295.85	940.6	0.11	949.55	8.93	
68	STP# 03	738703.50	3482324.55	940.6	0.11	949.54	8.92	
69	STP# 04	738733.37	3482333.80	941.0	0.22	949.25	8.23	
70	STP# 05	738702.02	3482369.60	940.5	0.22	949.11	8.59	
71	STP# 06	738649.20	3482368.10	941.5	0.11	947.72	6.20	
72	STP# 07	738621.51	3482347.73	941.7	0.15	946.96	5.25	
73	STP# 08	738598.50	3482399.16	941.0	0.11	946.40	5.39	
74	STP# 09	738583.67	3482369.27	941.2	0.18	946.44	5.23	
75	STP# 10	738553.46	3482356.74	941.5	0.15	945.70	4.19	
76	STP# 11	738487.77	3482319.29	939.5	0.18	944.67	5.16	
77	STP# 12	738639.04	3482393.74	940.3	0.11	947.65	7.33	
78	STP# 13	738616.33	3482397.88	940.5	0.11	947.44	6.93	
79	STP# 14	738607.67	3482429.10	938.6	0.11	947.05	8.43	
80	STP# 15	738603.94	3482471.26	937.2	0.22	946.47	9.25	
81	STP# 16	738638.04	3482484.58	938.1	0.26	946.68	8.56	
82	STP# 17	738648.56	3482527.84	941.6	0.15	945.05	3.44	
83	STP# 18	738709.86	3482538.24	942.9	0.18	945.24	2.33	
84	STP# 18 (a)	738687.96	3482527.15	942.5	0.15	945.21	2.70	
85	STP# 19	738519.69	3482520.95	939.5	0.18	943.59	4.08	
86	STP# 20	738503.22	3482515.27	939.4	0.11	942.65	3.25	
87	STP# 21	738529.00	3482489.04	939.4	0.11	942.61	3.20	
88	STP# 22	738615.35	3482519.53	938.8	0.26	946.07	7.26	
89	STP# 23	738566.22	3482509.06	939.4	0.22	945.19	5.78	
90	STP# 24	738550.73	3482492.06	939.1	0.11	945.37	6.26	
91	STP# 25	738520.59	3482435.19	938.0	0.11	943.76	5.74	
92	STP# 26	738497.59	3482496.05	937.6	0.22	943.78	6.17	
93	STP# 27	738439.78	3482462.68	937.5	0.18	943.02	5.51	
94	STP# 28	738403.49	3482450.43	937.0	0.26	941.37	4.36	
95	STP# 29	738691.12	3482264.88	940.3	0.11	948.81	8.50	
96	STP# 30	738705.51	3482195.86	940.9	0.18	948.33	7.42	

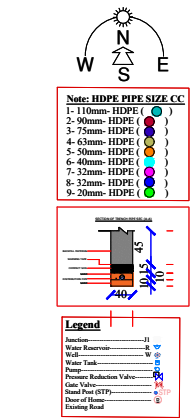
Joints Tabel of Regwa village Solar Powered Water Supply Project



S #:	Label	Easting (X):	Northing (Y):	Elevation (M):	Demand (lit/sec):	Hydraulic Grade (M):	Pressure (m H2O):	Remarks
97	STP# 31	738686.96	3482298.16	939.4	0.18	948.81	9.39	
98	STP# 32	738663.47	3482304.71	939.9	0.22	947.82	7.90	
99	STP# 33	738637.73	3482307.26	941.0	0.11	946.81	5.80	
100	STP# 34	738658.97	3482255.19	941.4	0.26	945.77	4.36	
101	STP# 35	738620.96	3482301.38	940.3	0.15	945.12	4.81	
102	STP# 36	738603.20	3482289.67	940.5	0.15	945.41	4.90	
103	STP# 37	738591.04	3482241.83	942.3	0.15	945.50	3.19	
104	STP# 38	738540.09	3482275.98	939.9	0.11	943.90	3.99	
105	STP# 39	738519.43	3482270.76	939.0	0.11	943.73	4.72	
106	STP# 40	738697.88	3482151.61	940.5	0.11	947.88	7.37	
107	STP# 41	738732.71	3482163.32	940.9	0.11	947.57	6.65	
108	STP# 42	738684.13	3482146.14	940.6	0.15	945.47	4.86	
109	STP# 43	738698.48	3482115.79	941.5	0.15	946.72	5.21	
110	STP# 44	738784.25	3482088.44	943.7	0.11	946.66	2.95	
111	STP# 45	738767.55	3482118.62	942.8	0.15	945.87	3.06	
112	STP# 46	738836.56	3482330.24	942.7	0.22	949.21	6.49	
113	STP# 47	738833.98	3482303.07	942.0	0.15	949.04	7.03	
114	STP# 47 (a)	738853.92	3482274.33	941.0	0.15	948.60	7.58	
115	STP# 48	738941.73	3482321.93	941.3	0.18	947.29	5.98	
116	STP# 49	738880.77	3482356.06	944.0	0.15	950.06	6.05	
117	STP# 50	738950.01	3482333.79	942.6	0.18	949.32	6.71	
118	STP# 51	739077.18	3482446.86	942.0	0.15	948.23	6.21	
119	STP# 52	738952.93	3482455.50	942.1	0.15	948.68	6.56	
120	STP# 53	738895.18	3482497.56	941.8	0.11	948.33	6.52	
121	STP# 54	738834.20	3482482.72	943.8	0.11	947.51	3.71	
122	STP# 55	738843.22	3482434.95	943.8	0.18	947.03	3.23	
123	STP# 56	738813.76	3482476.82	943.0	0.11	946.97	3.96	
124	STP# 57	738815.94	3482426.79	943.5	0.22	946.23	2.72	
125								

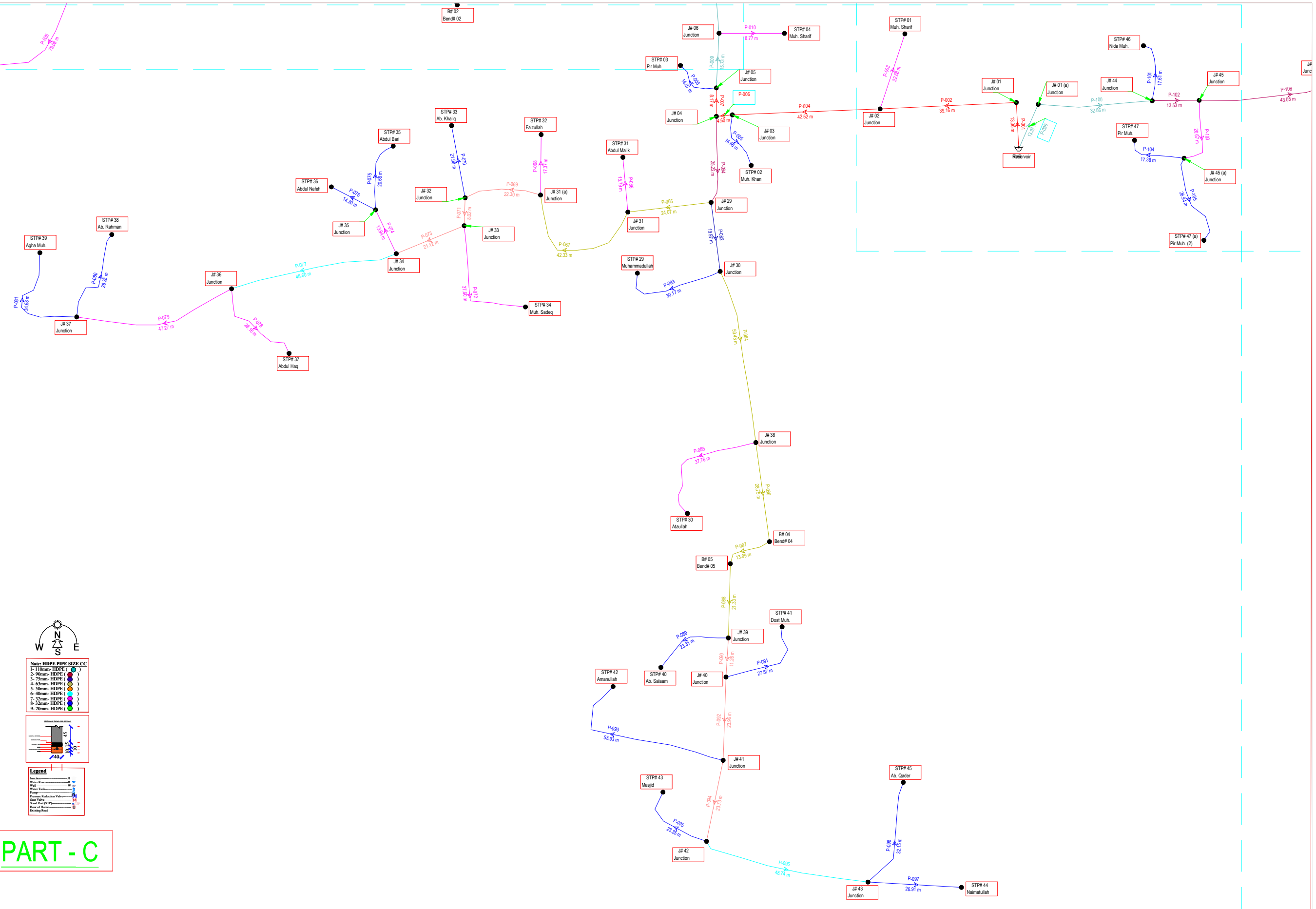


PART - A



 MEDAIR EMERGENCY RELIEF AND RECOVERY	AFGHANISTAN MEDAIR WASH Development		SURVEYED By:	KHR - WASH Department	CHECKED By:	Eng Samiullah Azizi	SCALE	1:xx	SHEET NO. 	PROVINCE:	KANDAHAR	PROJECT NAME: REGWA Solar Powered Water Supply Network	
			DESIGNED By:	KHR - WASH Department	REVIEWED By:	Eng Waheedullah Majeed	DATE			DISTRICT:	PANJWAI	DRAWING TITLE: (Model colors showing Dia. of Pipes in model)	
			DRAWN By:	KHR - WASH Department	APPROVED By:	Simon Beswetherick	DRAWING NO.	PART - A		VILLAGE:	REGWA (Dabak)	Label & Length in Network while Label & Notes in Junction	

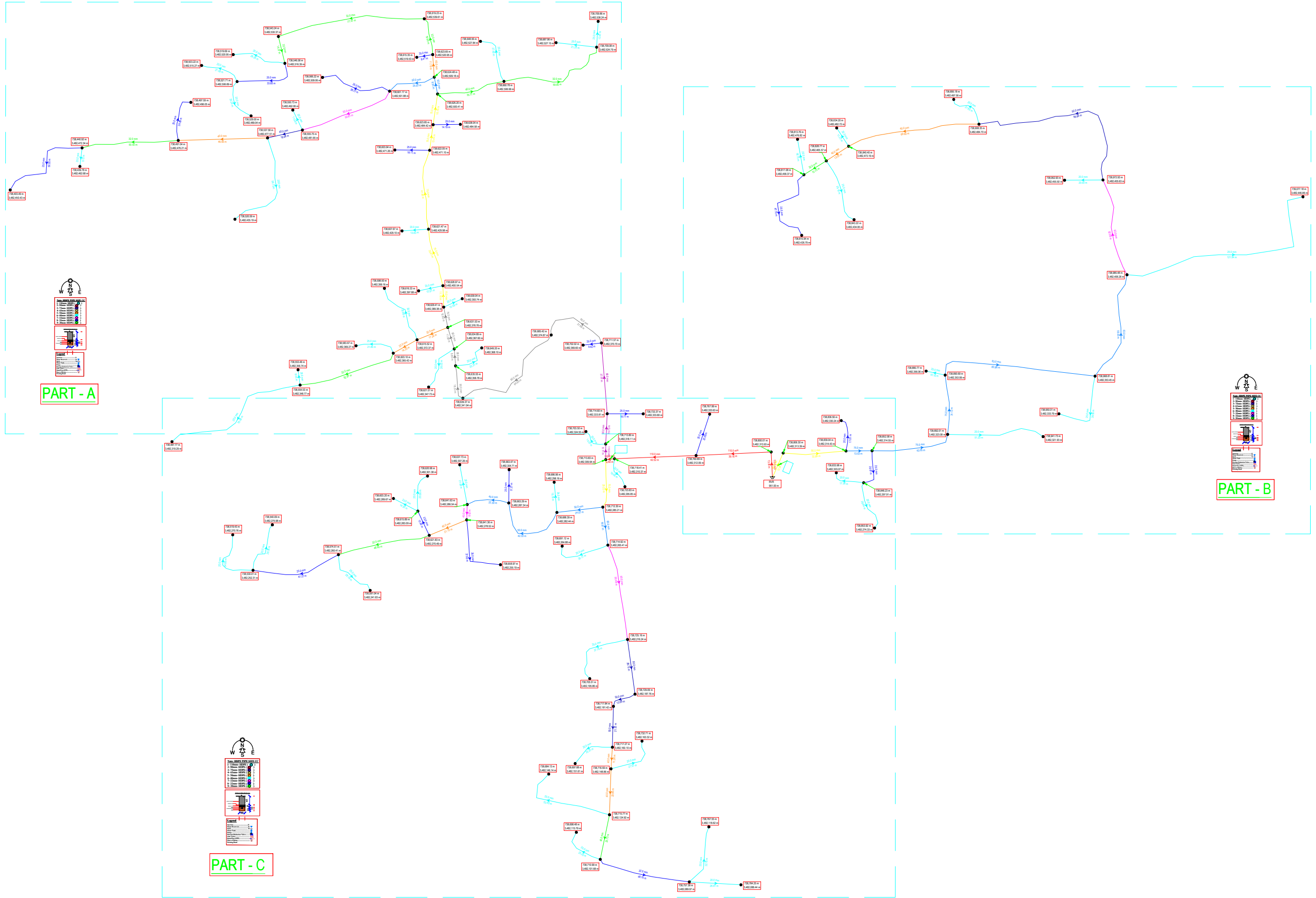


 <div> <p>AFGHANISTAN MEDAIR WASH Development</p> <p><i>WASH</i></p> </div>	SURVEYED By:	KHR - WASH Department	CHECKED By:	Eng Samiullah Azizi	SCALE	1:xx	<div> <p>SHEET NO.</p>  </div>	PROVINCE:	KANDAHAR	PROJECT NAME:	REGWA Solar Powered Water Supply Network
	DESIGNED By:	KHR - WASH Department	REVIEWED By:	Eng Waheedullah Majeed	DATE			DISTRICT:	PANJWAI	DRAWING TITLE:	(Model colors showing Dia. of Pipes in model)
	DRAWN By:	KHR - WASH Department	APPROVED By:	Simon Beswetherick	DRAWING NO.	PART - B		VILLAGE:	REGWA (Dabak)	Label & Length in Network while Label & Notes in Junction	

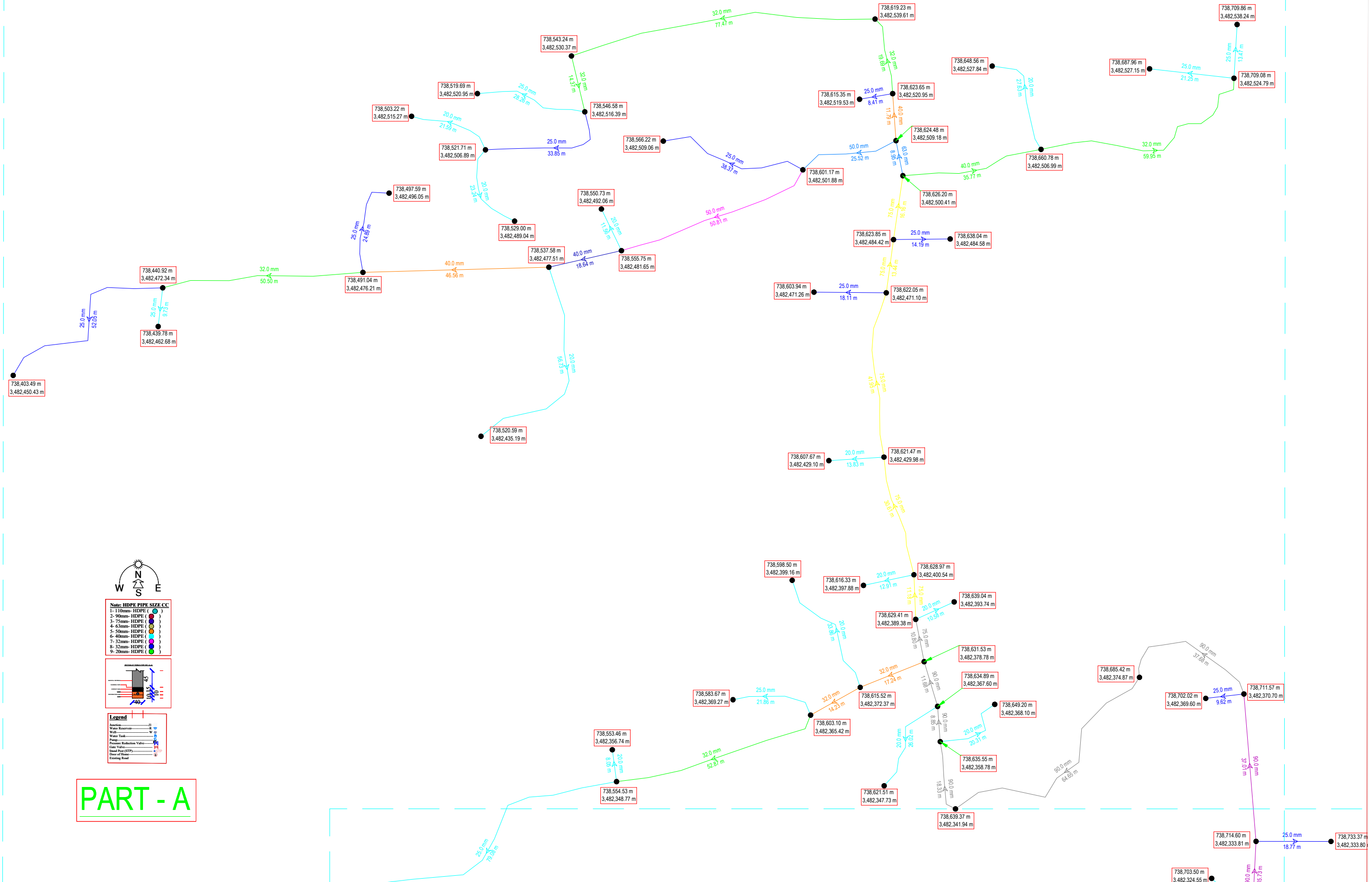


PART - C

 MEDAIR EMERGENCY RELIEF AND RECOVERY	AFGHANISTAN MEDAIR WASH Development <i>WASH</i>	SURVEYED By:	KHR - WASH Department	CHECKED By:	Eng Samiullah Azizi	SCALE	1:xx	SHEET NO. 	PROVINCE:	KANDAHAR	PROJECT NAME: REGWA Solar Powered Water Supply Network
		DESIGNED By:	KHR - WASH Department	REVIEWED By:	Eng Waheedullah Majeed	DATE			DISTRICT:	PANJWAI	
		DRAWN By:	KHR - WASH Department	APPROVED By:	Simon Beswetherick	DRAWING NO.	PART - C		VILLAGE:	REGWA (Dabak)	



<div><div>MEDAIR</div><div>AFGHANISTAN MEDAIR WASH Development</div><div>WASH</div></div>	SURVEYED By:	KHR - WASH Department	CHECKED By:	Eng. Samiullah Azizi	SCALE:	1:xx	SHEET NO. <div>X</div>	PROVINCE:	KANDAHAR	PROJECT NAME:	REGWA Solar Powered Water Supply Network
	DESIGNED By:	KHR - WASH Department	REVIEWED By:	Eng. Waheedullah Majeed	DATE:			DISTRICT:	PANJWAI	DRAWING TITLE:	(Model colors showing flow in model)
	DRAWN By:	KHR - WASH Department	APPROVED By:	Simon Beswetherick	DRAWING NO.	SITE PLAN		VILLAGE:	REGWA (Dabak)	Outer Dia & Length in Network while Coordinates in Junction	





Note: HDPE PIPE SIZE CCC

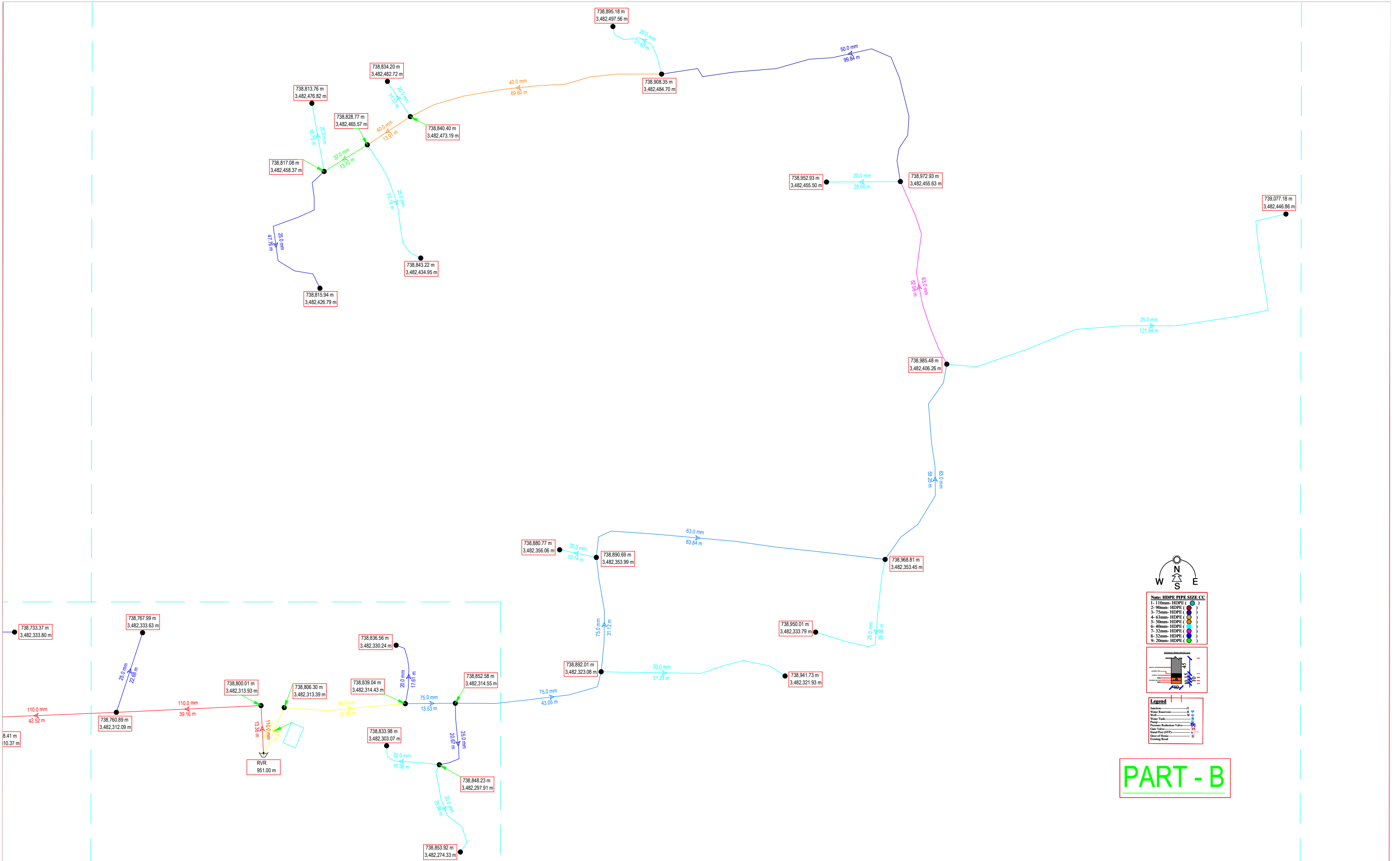
1- 110mm- HDPE ()
2- 90mm- HDPE ()
3- 75mm- HDPE ()
4- 63mm- HDPE ()
5- 50mm- HDPE ()
6- 40mm- HDPE ()
7- 32mm- HDPE ()
8- 25mm- HDPE ()
9- 20mm- HDPE ()

Legend

Asphalte	21
Water Reservoir	22
Well	23
Water Tank	24
Pump	25
Pressure Reduction Valve	26
Gate Valve	27
Isolated Pipe (IPP)	28
Door of Road	29
Existing Road	30

PART - A

 MEDAIR EMERGENCY RELIEF AND RECOVERY	AFGHANISTAN MEDAIR WASH Development		SURVEYED By:	KHR - WASH Department	CHECKED By:	Eng Samiullah Azizi	SCALE	1:xx	SHEET NO. 	PROVINCE:	KANDAHAR	PROJECT NAME: REGWA Solar Powered Water Supply Network
	<i>WASH</i>		DESIGNED By:	KHR - WASH Department	REVIEWED By:	Eng Waheedullah Majeed	DATE			DISTRICT:	PANJWAI	
			DRAWN By:	KHR - WASH Department	APPROVED By:	Simon Beswetherick	DRAWING NO.	PART - A		VILLAGE:	REGWA (Dabak)	



W N E
S

Note: HDPE PIPE SIZE CC

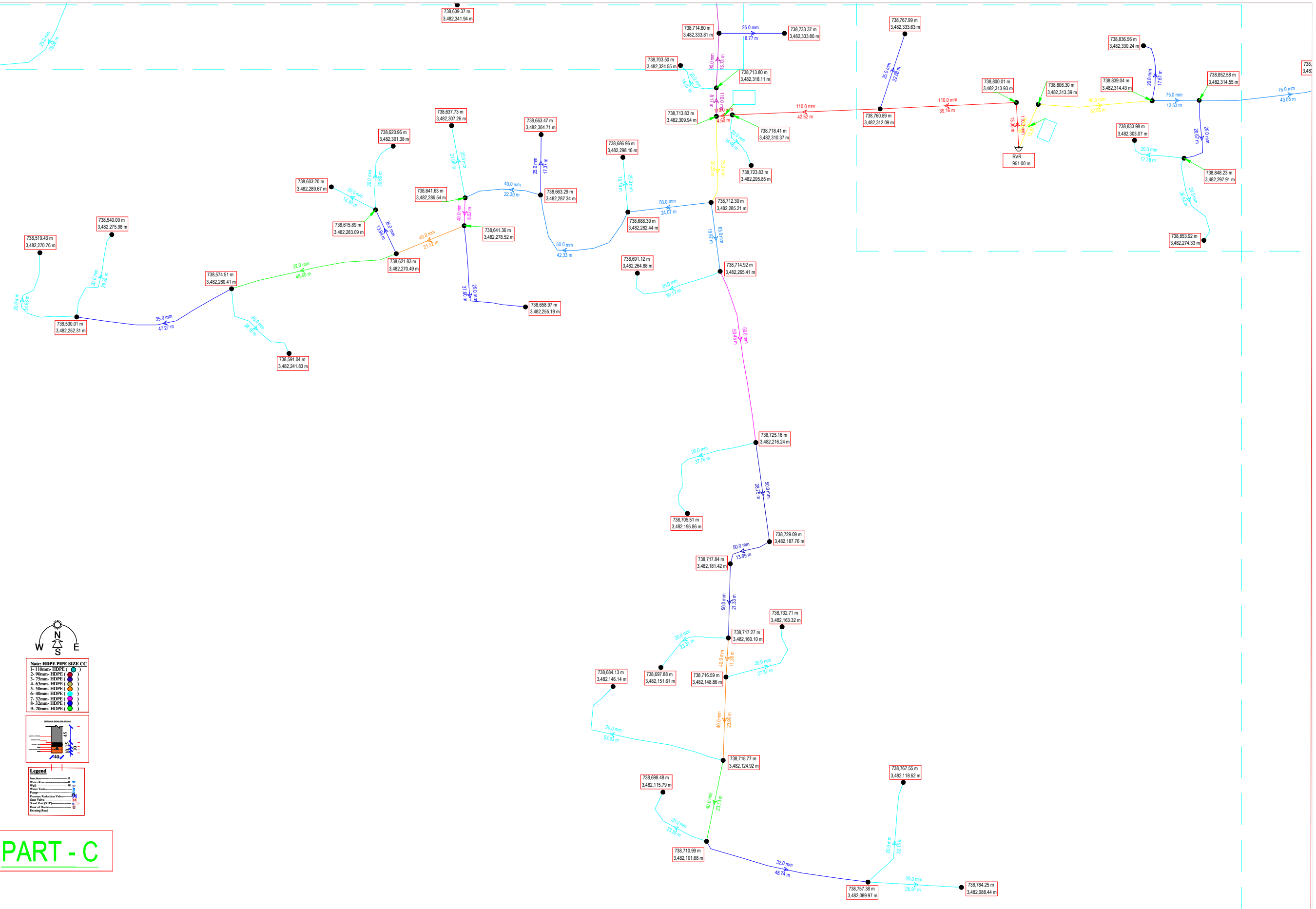
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2- 90mm- HDPE ()
3- 75mm- HDPE ()
4- 63mm- HDPE ()
5- 50mm- HDPE ()
6- 40mm- HDPE ()
7- 32mm- HDPE ()
8- 25mm- HDPE ()
9- 20mm- HDPE ()

Legend

Access	→
Water Reservoir	→
Water Tank	→
Pump	→
Pressure Reduction Valve	→
Stand Post (STP)	→
Break of Main	→
Existing Road	→

PART - B

<div><div>MEDAIR</div><div>AFGHANISTAN MEDAIR WASH Development</div><div>WASH</div></div>	SURVEYED By:	KHR - WASH Department	CHECKED By:	Eng Samiullah Azizi	SCALE	1:xx	SHEET NO. <div>X X</div>	PROVINCE:	KANDAHAR	PROJECT NAME:	REGWA Solar Powered Water Supply Network
	DESIGNED By:	KHR - WASH Department	REVIEWED By:	Eng Waheedullah Majeed	DATE			DISTRICT:	PANJWAI	DRAWING TITLE:	(Model colors showing flow in model)
	DRAWN By:	KHR - WASH Department	APPROVED By:	Simon Beswetherick	DRAWING NO.	PART - B		VILLAGE:	REGWA (Dabak)	Outer Dia & Length in Network while Coordinates in Junction	




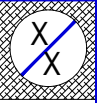
Note: HDPE PIPE SIZE CC

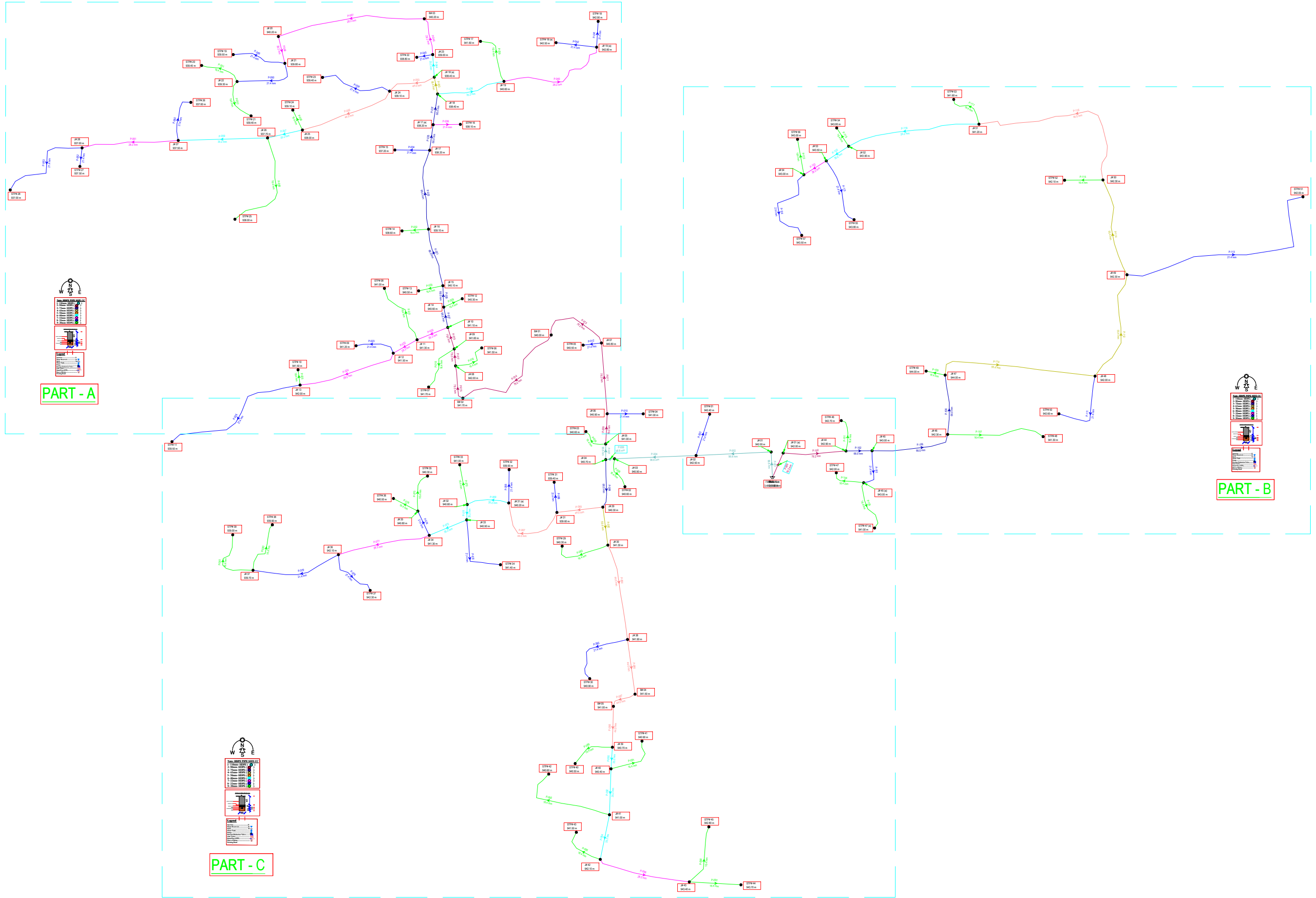
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2- 90mm- HDPE	()
3- 75mm- HDPE	()
4- 63mm- HDPE	()
5- 50mm- HDPE	()
6- 40mm- HDPE	()
7- 32mm- HDPE	()
8- 25mm- HDPE	()
9- 20mm- HDPE	()

Legend

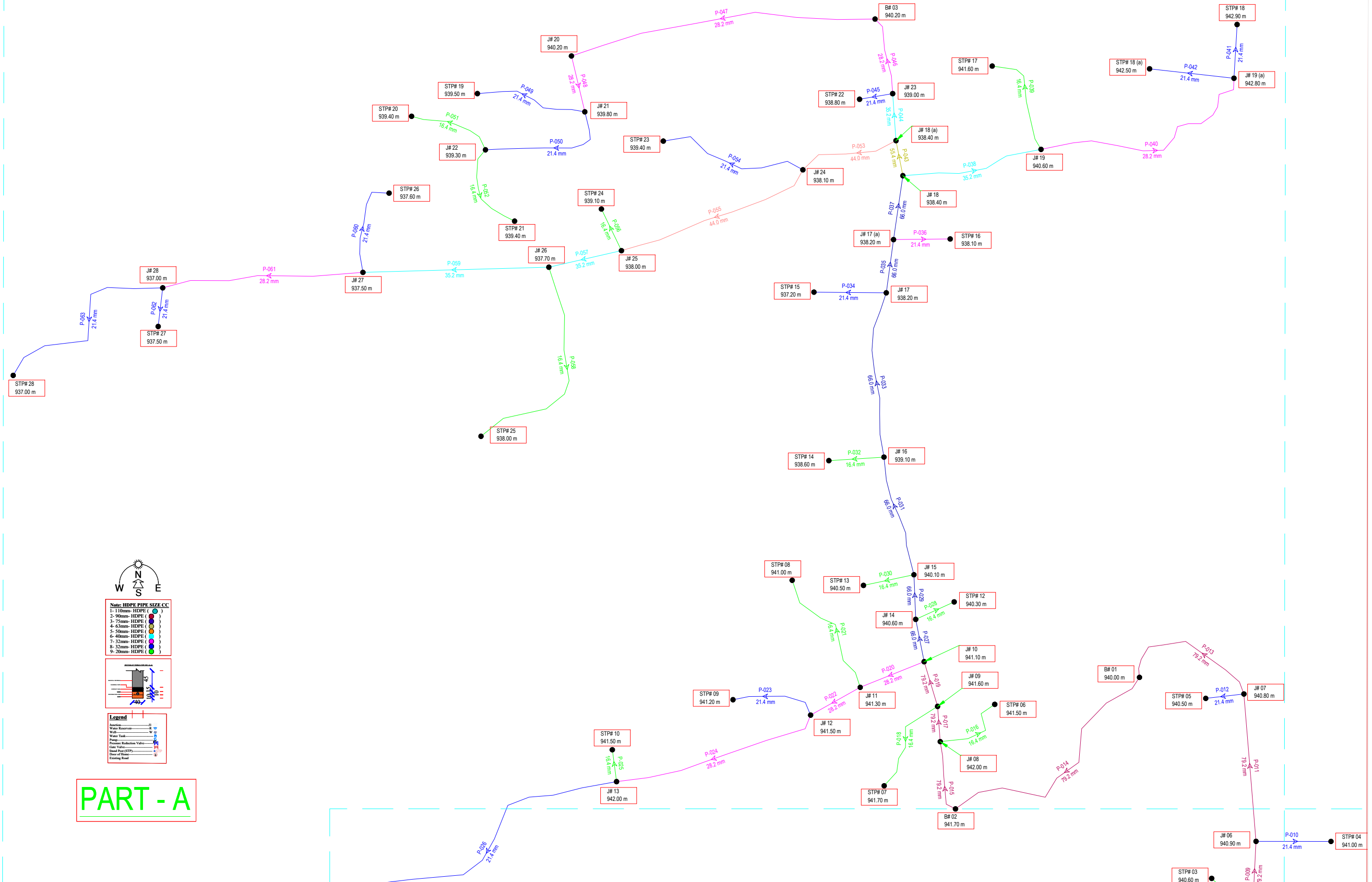
Manhole	1
Water Meter	2
Valve	3
Pump	4
Pressure Reducing Valve	5
Gate Valve	6
Stand Post (STP)	7
Draw of House	8
Drinking Point	9

PART - C




 MEDAIR EMERGENCY RELIEF AND RECOVERY	AFGHANISTAN MEDAIR WASH Development <i>WASH</i>	SURVEYED By:	KHR - WASH Department	CHECKED By:	Eng Samiullah Azizi	SCALE	1:xx	SHEET NO. 	PROVINCE:	KANDAHAR	PROJECT NAME:	REGWA Solar Powered Water Supply Network
		DESIGNED By:	KHR - WASH Department	REVIEWED By:	Eng Waheedullah Majeed	DATE			DISTRICT:	PANJWAI	DRAWING TITLE: (Model colors showing flow in model)	
		DRAWN By:	KHR - WASH Department	APPROVED By:	Simon Beswetherick	DRAWING NO.	PART - C		VILLAGE:	REGWA (Dabak)	Outer Dia & Length in Network while Coordinates in Junction	

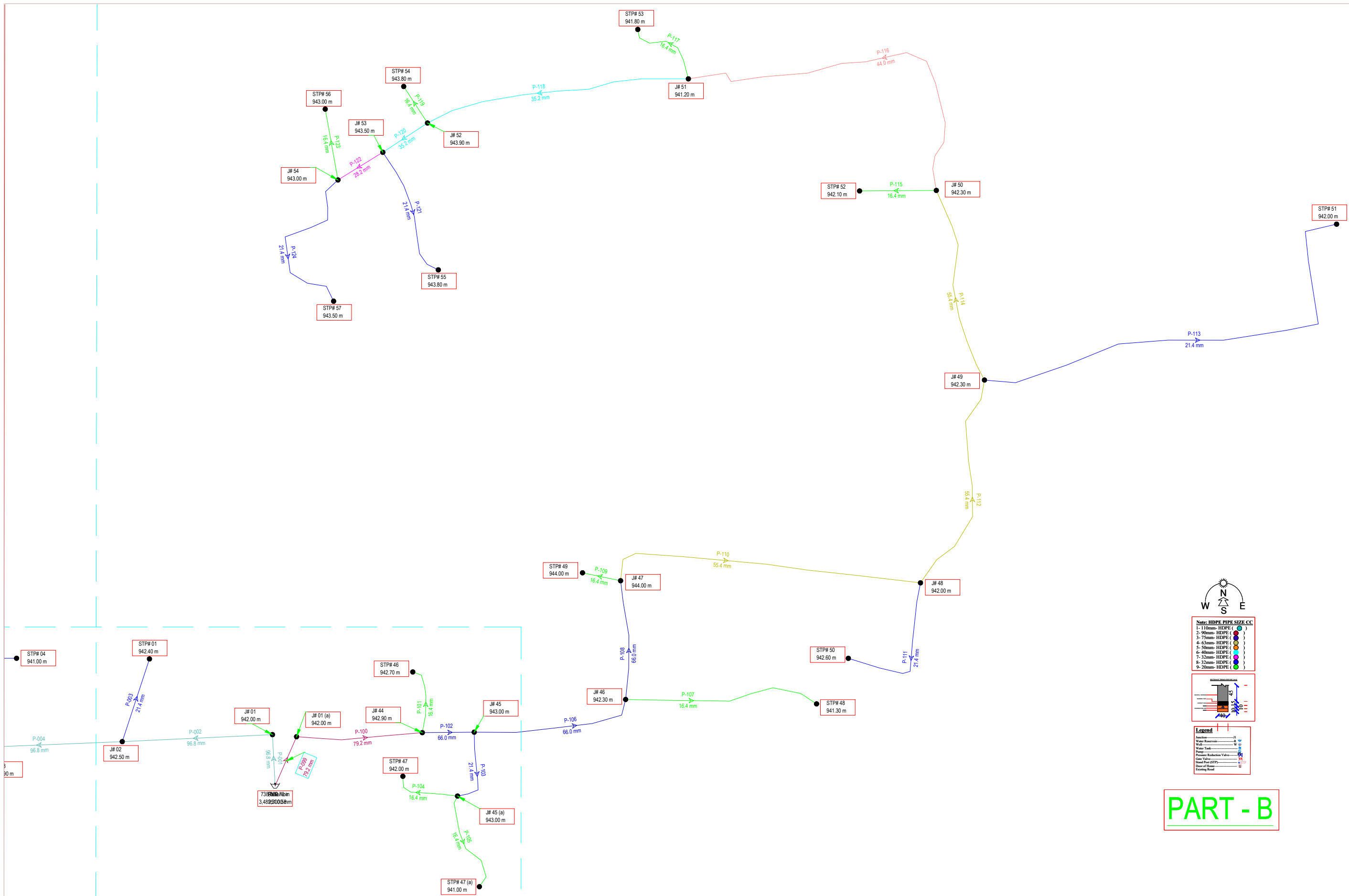


<div><div>MEDAIR</div><div>AFGHANISTAN MEDAIR WASH Development</div><div>WASH</div></div>	SURVEYED By:	KHR - WASH Department	CHECKED By:	Eng. Samiullah Azizi	SCALE:	1:xx	SHEET NO. <div>X</div>	PROVINCE:	KANDAHAR	PROJECT NAME:	REGWA Solar Powered Water Supply Network
	DESIGNED By:	KHR - WASH Department	REVIEWED By:	Eng. Waheedullah Majeed	DATE:			DISTRICT:	PANJWAI	DRAWING TITLE:	(Model colors showing Inner Diameter of pipes)
	DRAWN By:	KHR - WASH Department	APPROVED By:	Simon Beswetherick	DRAWING NO.	SITE PLAN		VILLAGE:	REGWA (Dabak)	Label & Inner Dia. in Network while Label & Elevation in Junction	



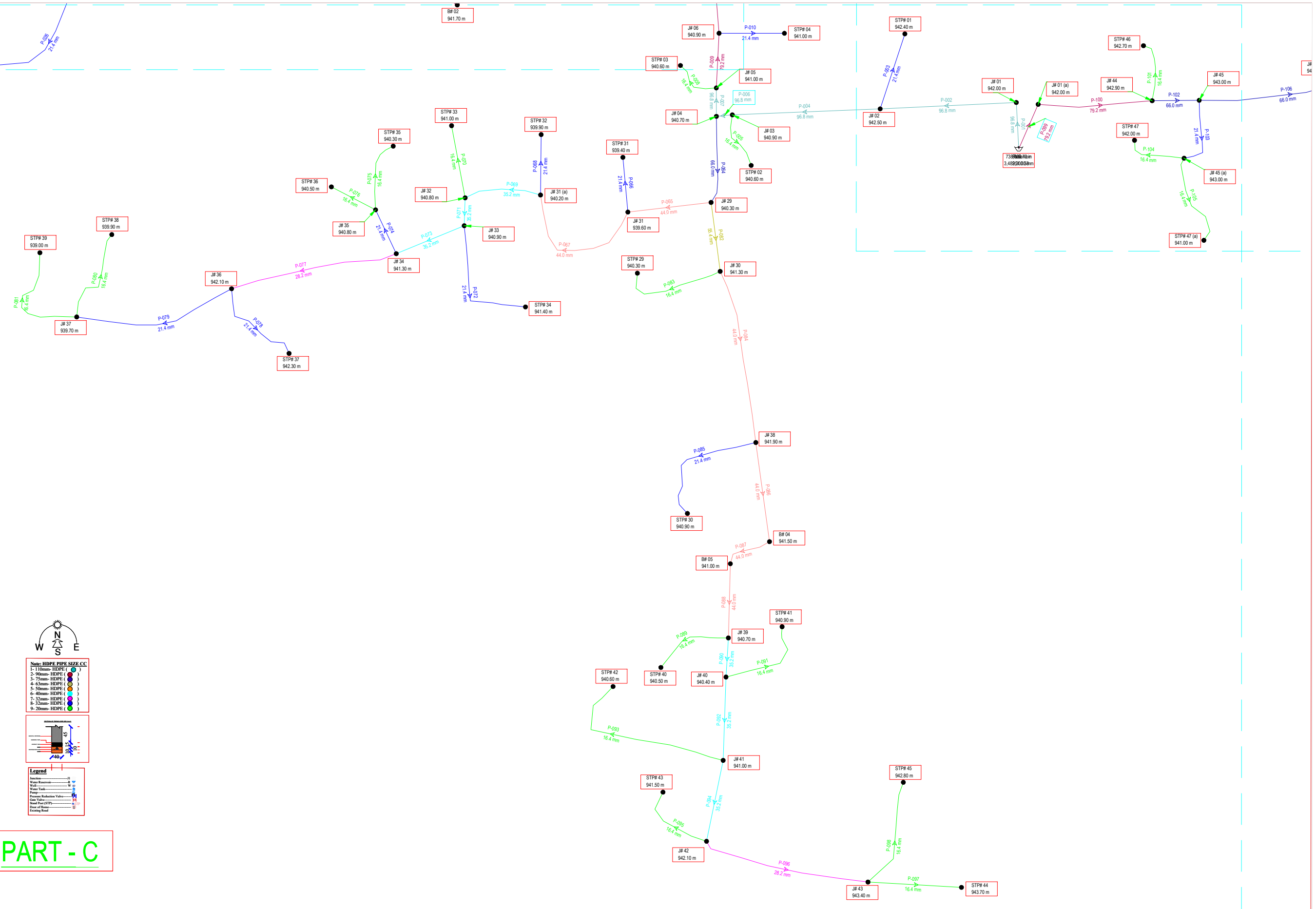
PART - A

 MEDAIR EMERGENCY RELIEF AND RECOVERY	AFGHANISTAN MEDAIR WASH Development		SURVEYED By:	KHR - WASH Department	CHECKED By:	Eng Samiullah Azizi	SCALE	1:xx	SHEET NO. 	PROVINCE:	KANDAHAR	PROJECT NAME: REGWA Solar Powered Water Supply Network
			DESIGNED By:	KHR - WASH Department	REVIEWED By:	Eng Waheedullah Majeed	DATE			DISTRICT:	PANJWAI	
			DRAWN By:	KHR - WASH Department	APPROVED By:	Simon Beswetherick	DRAWING NO.	PART - A		VILLAGE:	REGWA (Dabak)	



PART - B

<div><div>MEDAIR</div><div>AFGHANISTAN MEDAIR WASH Development</div><div>WASH</div></div>	SURVEYED By:	KHR - WASH Department	CHECKED By:	Eng Samiullah Azizi	SCALE	1:xx	SHEET NO. <div><div>X</div><div>X</div></div>	PROVINCE:	KANDAHAR	PROJECT NAME:	REGWA Solar Powered Water Supply Network	
	DESIGNED By:	KHR - WASH Department	REVIEWED By:	Eng Waheedullah Majeed	DATE			DISTRICT:	PANJWAI	DRAWING TITLE: (Model colors showing Inner Diameter of pipes)		
	DRAWN By:	KHR - WASH Department	APPROVED By:	Simon Beswetherick	DRAWING NO.	PART - B		VILLAGE:	REGWA (Dabak)	Label & Inner Dia. in Network while Label & Elevation in Junction		




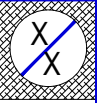
Note: HDPE PIPE SIZE CC

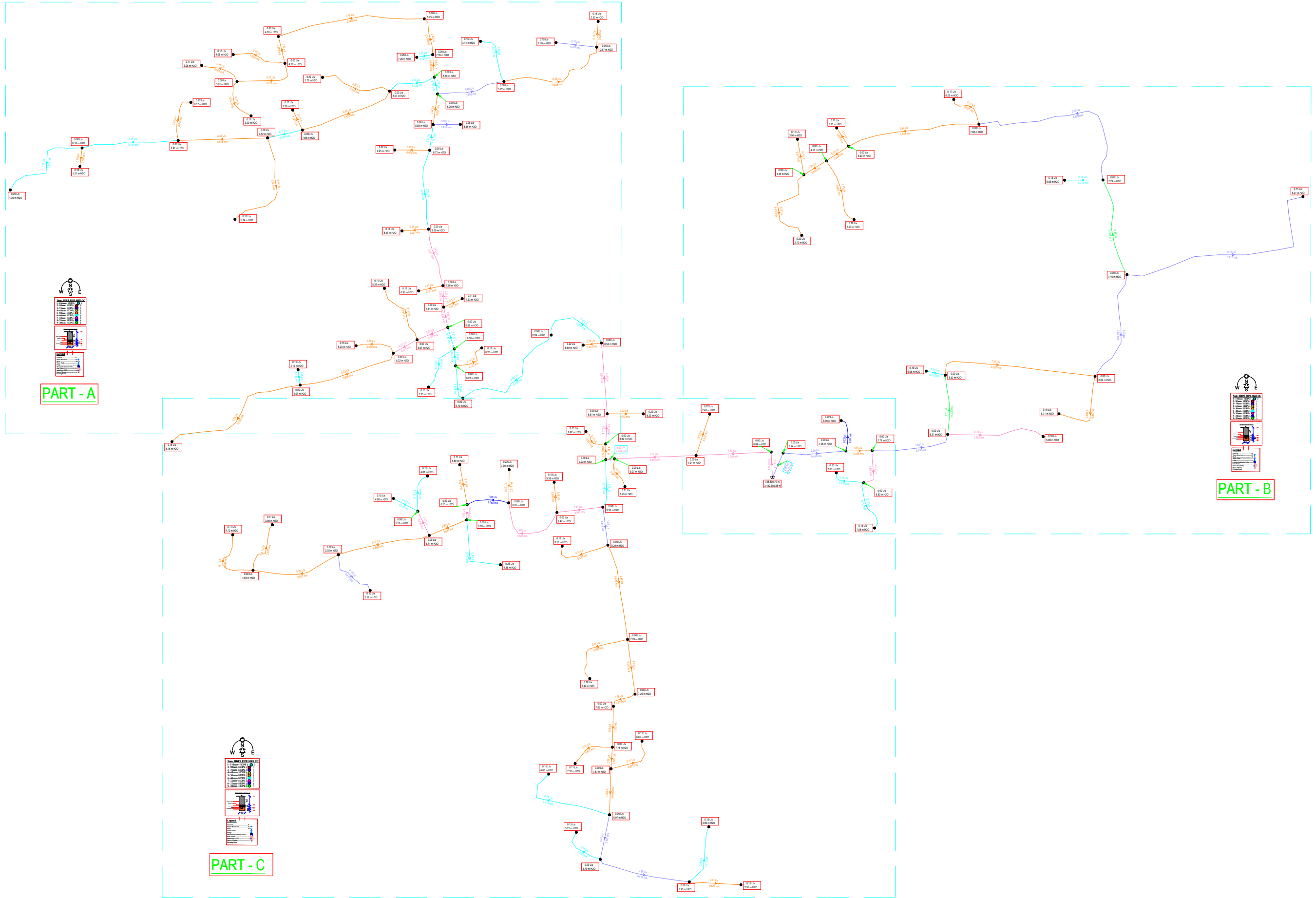
1- 110mm- HDPE	(Blue)
2- 90mm- HDPE	(Green)
3- 75mm- HDPE	(Yellow)
4- 63mm- HDPE	(Orange)
5- 50mm- HDPE	(Red)
6- 40mm- HDPE	(Purple)
7- 32mm- HDPE	(Brown)
8- 25mm- HDPE	(Pink)
9- 20mm- HDPE	(Grey)

Legend

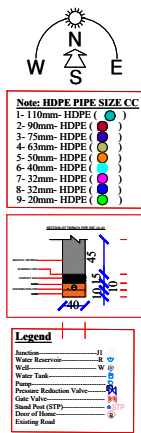
Junction	●
Water Reservoir	■
Valve	⊕
Pump	⊕
Pressure Reduction Valve	⊕
Gate Valve	⊕
Stand Post (STP)	⊕
Door of House	⊕
Existing Road	—

PART - C



 MEDAIR EMERGENCY RELIEF AND RECOVERY	AFGHANISTAN MEDAIR WASH Development <i>WASH</i>	SURVEYED By:	KHR - WASH Department	CHECKED By:	Eng Samiullah Azizi	SCALE	1:xx	SHEET NO. 	PROVINCE:	KANDAHAR	PROJECT NAME:	REGWA Solar Powered Water Supply Network
		DESIGNED By:	KHR - WASH Department	REVIEWED By:	Eng Waheedullah Majeed	DATE			DISTRICT:	PANJWAI	DRAWING TITLE:	(Model colors showing Inner Diameter of pipes)
		DRAWN By:	KHR - WASH Department	APPROVED By:	Simon Beswetherick	DRAWING NO.	PART - C		VILLAGE:	REGWA (Dabak)	Label & Inner Dia. in Network while Label & Elevation in Junction	

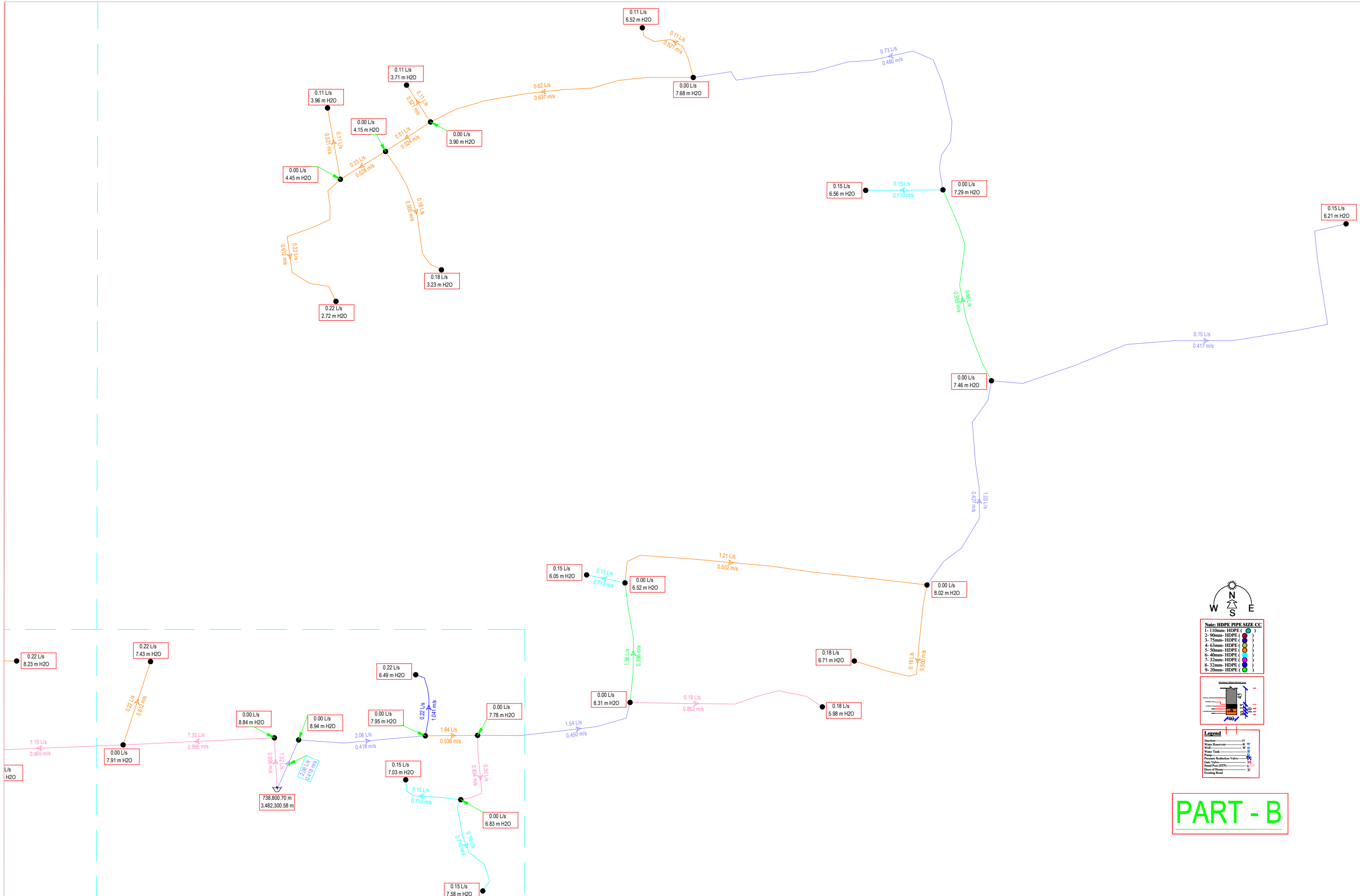


<div><div>MEDAIR</div><div>AFGHANISTAN MEDAIR WASH Development</div><div>WASH</div></div>	SURVEYED By:	KHR - WASH Department	CHECKED By:	Eng. Samiullah Azizi	SCALE:	1:xx	SHEET NO. <div>X X</div>	PROVINCE:	KANDAHAR	PROJECT NAME:	REGWA Solar Powered Water Supply Network
	DESIGNED By:	KHR - WASH Department	REVIEWED By:	Eng. Waheedullah Majeed	DATE:			DISTRICT:	PANJWAI	DRAWING TITLE:	(Model colors showing flow velocity in model)
	DRAWN By:	KHR - WASH Department	APPROVED By:	Simon Beswetherick	DRAWING NO.	SITE PLAN		VILLAGE:	REGWA (Dabak)	Flow & Velocity in Network while Demand & Pressure in Junction	



PART - A

<div>MEDAIR <small>EMERGENCY RELIEF AND RECOVERY</small></div> <div>AFGHANISTAN MEDAIR WASH Development</div> <div><i>WASH</i></div>	SURVEYED By:	KHR - WASH Department	CHECKED By:	Eng Samiullah Azizi	SCALE	1:xx	SHEET NO. 	PROVINCE:	KANDAHAR	PROJECT NAME:	REGWA Solar Powered Water Supply Network	
	DESIGNED By:	KHR - WASH Department	REVIEWED By:	Eng Waheedullah Majeed	DATE			DISTRICT:	PANJWAI	DRAWING TITLE: (Model colors showing flow velocity in model)		
	DRAWN By:	KHR - WASH Department	APPROVED By:	Simon Beswetherick	DRAWING NO.	PART - A		VILLAGE:	REGWA (Dabak)	Flow & Velocity in Network while Demand & Pressure in Junction		



W
N
S
E



Note: HDPE PIPE SIZE CC

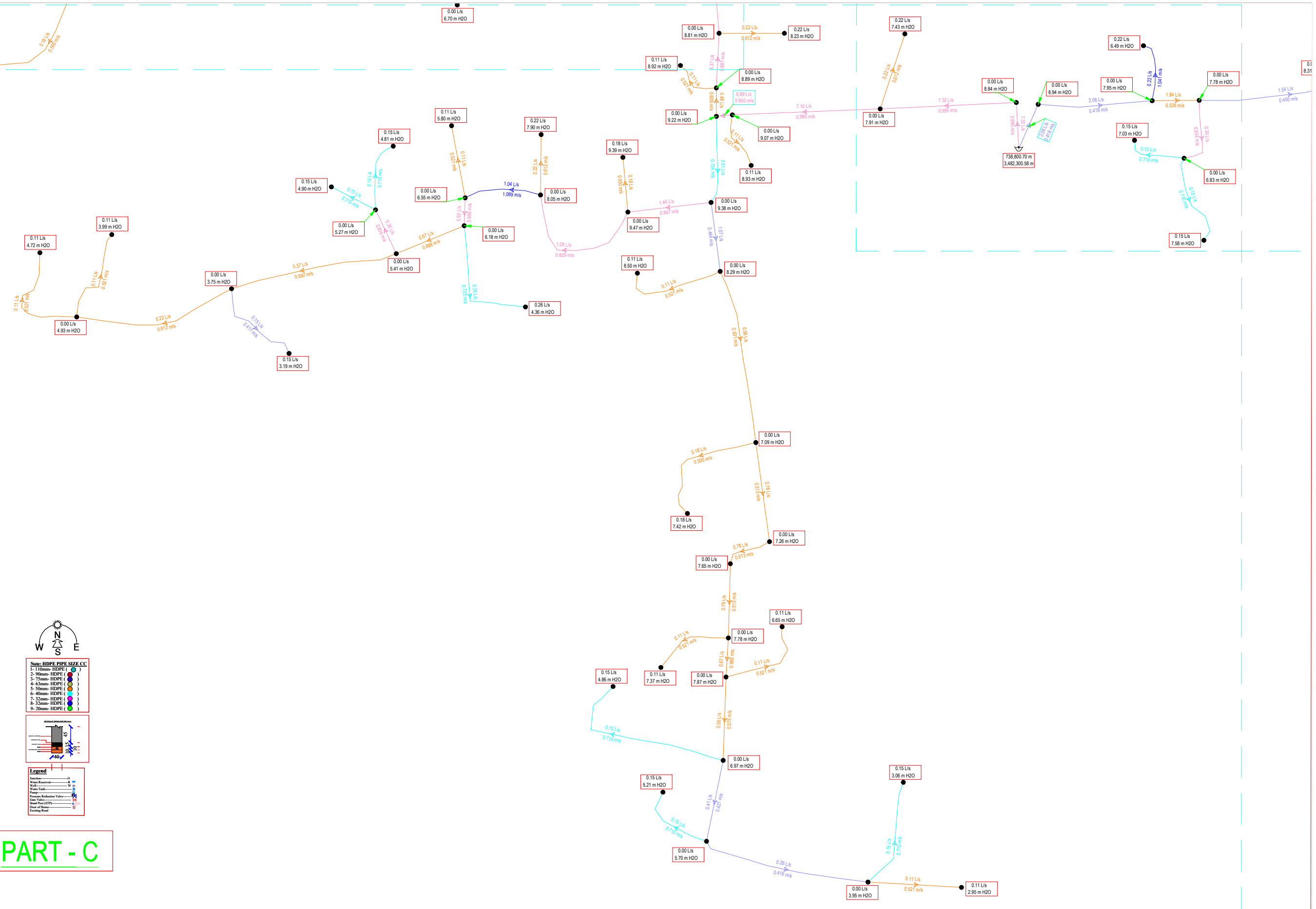
- 1- 110mm- HDPE ()
- 2- 90mm- HDPE ()
- 3- 75mm- HDPE ()
- 4- 63mm- HDPE ()
- 5- 50mm- HDPE ()
- 6- 40mm- HDPE ()
- 7- 32mm- HDPE ()
- 8- 25mm- HDPE ()
- 9- 20mm- HDPE ()

Legend

- Access
- Water Reservoir
- Water Tank
- Pump
- Pressure Reduction Valve
- Gate Valve
- Stand Post (STP)
- Break of Main
- Existing Road

PART - B

 MEDAIR EMERGENCY RELIEF AND RECOVERY	AFGHANISTAN MEDAIR WASH Development <i>WASH</i>	SURVEYED By:	KHR - WASH Department	CHECKED By:	Eng Samiullah Azizi	SCALE	1:xx	SHEET NO. 	PROVINCE:	KANDAHAR	PROJECT NAME:	REGWA Solar Powered Water Supply Network
		DESIGNED By:	KHR - WASH Department	REVIEWED By:	Eng Waheedullah Majeed	DATE			DISTRICT:	PANJWAI	DRAWING TITLE: (Model colors showing flow velocity in model)	
		DRAWN By:	KHR - WASH Department	APPROVED By:	Simon Beswetherick	DRAWING NO.	PART - B		VILLAGE:	REGWA (Dabak)	Flow & Velocity in Network while Demand & Pressure in Junction	



PART - C

<div><div>MEDAIR</div><div>AFGHANISTAN MEDAIR WASH Development</div><div>WASH</div></div>	SURVEYED By:	KHR - WASH Department	CHECKED By:	Eng Samiullah Azizi	SCALE	1:xx	SHEET NO. <div>X/X</div>	PROVINCE:	KANDAHAR	PROJECT NAME:	REGWA Solar Powered Water Supply Network
	DESIGNED By:	KHR - WASH Department	REVIEWED By:	Eng Waheedullah Majeed	DATE			DISTRICT:	PANJWAI	DRAWING TITLE:	(Model colors showing flow velocity in model)
	DRAWN By:	KHR - WASH Department	APPROVED By:	Simon Beswetherick	DRAWING NO.	PART - C		VILLAGE:	REGWA (Dabak)	Label & Inner Dia. in Network while Label & Elevation in Junction	