STORM SEWER SCHEDULE

Structure	Station	Offset	Type	Diameter	Rim El.	Invert El.	Pay Length	Size	Slope %
E4	207+22.46	371.00 RT	Replace Manhole	84	665.80	E 662.26	98.0	12.0	0.32
E4a	207+42.5	271.00 RT	Manhole	48	665.62	W 662.57			
N1a	363+30.25	50.60 RT	Existing Pipe	18	---	662.00	45.8	18.0	0.31
N1	363+56.86	63.44 RT	Manhole	72	664.86	N 661.86 SW 661.48 NE 661.58			
						(N1 to N1b)	109.6	21.0	0.31
						(N1 to N1c)	168.1	24.0	0.45
N1b	363+80.59	46.94 LT	Existing Pipe	21	---	661.92			
N1c	363+53.63	233.84 RT	Existing Pipe	24	---	660.73			
N2	201+76.00	130.26 RT	Inlet	24	668.21	SE 665.50	168.3	12.0	0.30
N3	209+52.46	79.49 RT	Oil Water Separator	48	667.37	NW 665.00 SE 664.80			
							33.6	12.0	0.65
N4	209+69.38	74.62 RT	Flared End Section	12		NW 664.58			
N5	215+35.5	71.00 RT	Manhole	60	662.57	E 660.32	137.5	30.0	0.30
N6	215+35.5	71.00 LT	Manhole	84	662.57	W 659.91 S 659.70			
							140.3	30.0	0.30
N7	368+37.00	66.71 RT	Flared End Section	30		659.28			
N8	212+14.32	283.47 LT	Flared End Section (Elliptical)	24x38		662.00	54.0	24x38 (15)	0.30
N9	212+14.32	337.94 LT	Flared End Section (Elliptical)	24x38		661.84			
N10	213+61.14	191.19 LT	Inlet	24	662.99	S 659.72	135.8	15	0.30
N11	215+00.46	191.19 LT	Manhole	60	662.99	N 659.31 E 659.10			
						(N11 to N13)	121.9	21.0	0.30
N12	213+61.14	317.06 LT	Inlet	24	662.99	S 659.04	135.8	15.0	0.30
N13	215+00.46	317.06 LT	Manhole	72	662.99	N 658.63 W 658.74 S 658.52			
N14	370+83.05	65.92 RT	Flared End Section	24		N 658.00	175.4	24.0	0.30
N15	413+12.00	0.00 LT	Inlet	24	662.80	S 658.81	145.0	15.0	0.30
N16	414+60.00	0.00 LT	Manhole	48	662.80	N 658.38 SE 658.27			
						(N16 to N18)	105.3	21.0	0.30
N17	371+70.99	47.44 LT	Manhole	48	662.40	E 658.44	88.5	12.0	0.45
N18	372+60.99	47.42 LT	Manhole	72	662.40	W 658.05 NW 657.95 S 657.84			
N19	372+60.98	66.65 RT	Flared End Section	21		N 657.49	117.2	21.0	0.30
T1	208+26.43	140.25 RT	Utility Trench Drain	---	---	666.49	25.9	3.0 (11)	2.38
T2	208+22.93	116.13 RT	RCP Connection	---	---	665.85			
T3	209+232.29	140.25 RT	Utility Trench Drain	---	---	665.91	64.7	3.0 (11)	1.72
T4 (N3)	209+52.46	79.49 RT	Oil Water Separator	---	667.37	664.80			
V1	507+08.74	74.35 LT	Manhole (1)	72	666.50 (2)	NW 661.28 SE 661.28 SW 661.58	Existing Existing	30.0 30.0	0.30 0.30
V2	507+32.50	CL	Manhole	48	667.25	NE 661.95 S 662.15	74.0	18.0	0.50
V3	508+40.41	CL	Manhole	48	666.90	N 662.68 S 662.78	105.0	18.0	0.50
V4	510+10.41	CL	Inlet	24	666.90	N 663.62	167.0	12.0	0.50
V5	511+46.47	39.19 RT	Flared End Section	12	---	664.49	93.0	12.0	0.30
V6	511+05.92	57.22 LT	Flared End Section	12	---	664.80			

FRAME AND LID DATA

Structure Number	Structure Type	Diameter "D" (in.)	Frame Height "X" (in.)	Hole Opening "L" (in.)	Frame Type (East Jordan)	Cover/Grate (East Jordan)
E4	Replace Manhole	84	8.5	36	1585	Type M
E4a	Manhole	48	8.5	36	1585	Type M
N1	Manhole	72	8.5	36	1585	Type M
N2	Inlet	24	9	24	1050	Type M1
N3	Oil/Water Separator	48	6	24	1020	Type A "Oil/Water Separator"
N5	Manhole	60	8.5	36	1585	Type M
N6	Manhole	84	8.5	36	1585	Type M
N10	Inlet	24	9	24	1050	Type M1
N11	Manhole	60	9	24	1050	Type M1
N12	Inlet	24	9	24	1050	Type M1
N13	Manhole	72	9	24	1050	Type M1
N15	Inlet	24	9	24	1050	Type M1
N16	Manhole	48	9	24	1050	Type M1
N17	Manhole	48	8.5	36	1585	Type M
N18	Manhole	72	8.5	36	1585	Type M
T1	Utility Trench Drain	3	N/A	3	N/A	Open Grate
T3	Utility Trench Drain	3	N/A	3	N/A	Open Grate
V1	Manhole	72	6	24	1020	Type A "STORM"
V2	Manhole	48	6	24	1020	Type A "STORM"
V3	Manhole	48	9	24	1050	Type M1
V4	Inlet	24	9	24	1050	Type M1

NOTES

1. MANHOLE TO STRADDLE EXISTING 30" RCP PIPE WITH A SEPARATE PRECAST FLAT SLAB BOTTOM. COST FOR CONNECTING THE EXISTING PIPE TO THE NEW STRUCTURE IS INCIDENTAL TO THE STRUCTURE.
2. ADJUST RIM ELEVATION AS NECESSARY TO MATCH EXISTING GRADE.
3. FOR CONNECTIONS TO EXISTING PIPE ENDS. EXISTING PIPE END TO BE CLEARED OUT AND CLEANED PRIOR TO PLACEMENT OF NEW PIPE.
4. SEE DETAILS FOR ADDITIONAL MANHOLE AND FLARED END SECTION INFORMATION.
5. ADJUSTING RINGS, 12-INCH MAX., NO MORE THAN TWO RINGS ALLOWED.
6. ALL MANHOLES TO HAVE FLAT SLAB TOP, SEE DETAIL.
7. WHERE EXISTING MANHOLE IS TO BE REPLACED THE EXISTING STORM SEWER PIPE IS TO BE REMOVED FOR INSTALLATION OF NEW STRUCTURE AND CUT AS NEEDED FOR RE-INSTALLATION INTO NEW STRUCTURE. COST FOR REMOVAL AND REINSTALLATION OR REPLACEMENT OF PIPE ASSOCIATED WITH THE NEW STRUCTURE IS INCIDENTAL TO THE STRUCTURE.
8. OIL/WATER SEPARATOR MANHOLE TO BE CSR STRUCTURE STC 450i PRECAST CONCRETE STORMCEPTOR OR EQUAL, SEE DETAIL. STRUCTURES TO HAVE EJIW 1050 FRAME WITH GRATE (RATED LOAD CAPACITY 50,000 LB MINIMUM). GRATE TO HAVE "OIL/WATER SEPARATOR" IMPRINTED ON IT.
9. COST OF CONNECTIONS TO MANHOLES, INLETS, R.C.P. AND EXISTING UNDERDRAINS ARE INCIDENTAL TO UNDERDRAIN. CONNECTIONS AT MANHOLES/INLETS SHALL BE PRECAST WITH STRUCTURES.
10. STATIONING AND OFFSETS BASED ON ALIGNMENTS SHOWN. ENGINEER WILL PROVIDE BENCHMARKS WITH STATION, OFFSET AND ELEVATION FOR THE CONTRACTOR'S USE.
11. STRUCTURES WITH T DESIGNATIONS (T1 THROUGH T4), PAID UNDER UTILITY TRENCH, ITEM AR800991.
12. ALL FRAMES AND ADJUSTING RINGS SHALL BE MORTARED.
13. GRATES FOR STRUCTURES T1 AND T3 TO BE MORTARED IN PLACE.
14. ALL MANHOLE AND INLET STRUCTURES TO BE PRECAST.
15. ELLIPTICAL PIPE TO BE CLASS HE-IV.

NOTE
MANHOLES ARE LOCATED TO THE ℄ OF THE FRAME AND GRATE. THE CONTRACTOR IS RESPONSIBLE FOR FABRICATING AND OFFSETTING THE STRUCTURES AS NEEDED TO ALLOW FOR PROPER PLACEMENT OF THE FRAME AND GRATE.

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EXTEND TAXIWAY E: CONSTRUCT GA APRON, AVGAS FUELING APRON AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

No.	Drawing Issue Description	Date	By

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MARCH 25, 2005

Sheet Title
STORM SEWER SCHEDULES

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Project Number

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Layout By Date

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