

### DRAINAGE STRUCTURE SCHEDULE

STRUCT NUMBER	LOCATION	STATION	OFFSET	NORTHING	EASTING	STRUCTURE TYPE / DIA			RIM EL. (FT)	PIPE SIZE (IN)	NORTH** INVERT EL. (FT)	PIPE SIZE (IN)	EAST** INVERT EL. (FT)	PIPE SIZE (IN)	SOUTH** INVERT EL. (FT)	PIPE SIZE (IN)	WEST** INVERT EL. (FT)	MAIN DRAIN SIZE	MAIN DRAIN INV. EL. (FT)	PGE (CU YD)	BRACED EX (CU YD)
						MH TA	DROP MH	JC													
71+	WBXCON	314+33.00	6.00 LT	1839010.90	1179148.36			1	0.65	42*	-27.72*							7'-9"x8'-7"	-30.30	***	***
72+	WBXCON	317+78.53	23.87 LT	1839143.31	1178825.98			1	-0.84	48*	-27.39*							7'-9"x8'-7"	-29.97	***	***
105	SB BF	1141+90.80	29.90 LT	1838869.76	1179120.93		5' DIA.		-0.04	27*	-14.92*	24	-8.20		24	-8.51					****
106	NB BF	2017+31.03	44.45 RT	1839109.76	1179171.14		6' DIA.		-0.70			30	-8.20	36*	-15.66*	30	-8.35				****
107	SB BF	1145+23.58	49.61 LT	1838954.96	1178791.94		7' DIA.		-1.51	36*	-14.59*	21	-8.02		30	-8.88					****
108	NB BF	2020+92.53	46.08 RT	1839259.91	1178852.38		6' DIA.		-2.37					36*	-18.90*	36	-16.90				****
146	WBXCON	314+32.67	7.54 RT	1839023.58	1179153.11		7' DIA.		0.93	36*	-15.79*			27*,42*	-15.21*, -27.71*					66	(114)
147	WBXCON	317+80.73	8.49 LT	1839157.60	1178832.11		7' DIA.		-1.34	36*	-19.05*			36*,48*	-14.99*, -27.37*					60	(104)

### STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	DIAMETER (IN)	LENGTH (FT)	SLOPE (%)	TYPE
5	105	146	27	152	0.19	JACK
6	106	146	36	83	0.16	JACK
7	107	147	36	201	0.20	JACK
8	108	147	36	99	0.15	JACK
44	146	71	42	4	0.15	6
45	147	72	48	6	0.25	5

### STORM SEWER STUB SCHEDULE

STRUCTURE NUMBER	EAST STUB**			WEST STUB**		
	DIA. (IN)	TYPE	SLOPE	DIA. (IN)	TYPE	SLOPE
105	24	2	0.25%	24	2	0.25%
106	30	2	0.25%	30	2	0.25%
107	21	2	0.40%	30	2	0.30%
108				36	2	0.20%

### DROP MANHOLE SCHEDULE

STRUCT NUMBER	LOCATION	STATION	OFFSET	DIMENSIONS												ELEVATIONS (FT)								
				A (FT)	B (FT)	C (FT)	D1 (IN)	D2 (IN)	D3 (IN)	D4 (IN)	D5 (IN)	D6 (IN)	E (FT)	F (FT)	1	2	3	4	5	6	G	H		
105	SB BF	1141+90.80	29.90 LT	5	6.41	4.16						24	24	27	2.0	4.16				-8.51	-8.20	-14.92	-16.92	-0.04
106	NB BF	2017+31.03	44.45 RT	6	7.31	4.31	36					30	30		2.0	3.00	-15.66			-8.35	-8.20		-17.66	-0.70
107	SB BF	1145+23.58	49.61 LT	7	5.71	2.71						30	21	36	2.0	2.76				-8.88	-8.02	-14.59	-16.59	-1.51
146	WBXCON	314+32.67	7.54 RT	7	11.92	8.42	42	36	27						2.0	11.72	-27.71	-15.79	-15.21				-29.71	0.93
147	WBXCON	317+80.73	8.49 LT	7	8.32	4.32	48	36	36						2.0	8.65	-27.37	-19.05	-14.99				-29.37	-1.34

#### NOTES:

- + CONNECTION TO EXISTING MAIN DRAIN USING JUNCTION CHAMBER.
- \* STORM SEWERS TO BE CONSTRUCTED ENTIRELY IN THIS CONTRACT. INVERTS SHOWN WITHOUT ASTERISK (\*) ARE TO BE FORMED AND STORM SEWERS CONSTRUCTED A DISTANCE OF 8' AND PLUGGED, WITH REMAINDER OF STORM SEWER TO BE CONSTRUCTED IN SUBSEQUENT CONTRACTS.
- \*\* CARDINAL DIRECTIONS, AS SHOWN AT RIGHT, INDICATE APPROXIMATE LOCATIONS OF STORM SEWERS ONLY. SEE PLAN SHEETS FOR LOCATIONS.
- STATIONS, OFFSETS, NORTHINGS AND EASTINGS ARE MEASURED TO CENTER OF BASE OF STRUCTURE.
- \*\*\* SEE STRUCTURAL SHEETS FOR QUANTITIES PERTAINING TO JUNCTION CHAMBERS \*71 AND \*72.
- \*\*\*\* THE COST OF BRACED EXCAVATION IS INCLUDED IN THE UNIT PRICE FOR THE VARIOUS STORM SEWERS JACKED IN PLACE ITEMS.
- ( ) THE COST FOR ADDITIONAL BRACED EXCAVATION NEEDED FOR THE STORM SEWERS JACKED IN PLACE AT THESE LOCATIONS SHALL BE INCLUDED WITH THE VARIOUS STORM SEWERS JACKED IN PLACE ITEMS.
- SEE DRAINAGE STRUCTURE DETAILS FOR DROP MANHOLE DIMENSION AND ELEVATION DESIGNATIONS.
- POROUS GRANULAR EMBANKMENT LOCATED AT STRUCTURES IN/ADJACENT TO ROADWAY. SEE DRAINAGE DETAILS SHEET OF JUNCTION CHAMBERS \*71 & \*72 FOR PAY LIMITS OF BRACED EXCAVATION AND POROUS GRANULAR EMBANKMENT.



#### LEGEND:

- MH TA: MANHOLE, TYPE A,  
 DROP MH: MANHOLE, DROP TYPE  
 JC: JUNCTION CHAMBER (SEE STRUCTURAL PLANS)  
 NB DR: NORTHBOUND DAN RYAN EXPWY (I-94)  
 SB DR: SOUTHBOUND DAN RYAN EXPWY (I-94)  
 NB 57: NORTHBOUND I-57  
 SB 57: SOUTHBOUND I-57  
 WBXCON: WESTBOUND CROSS CONNECTOR (I-94 TO I-57)  
 EBXCON: EASTBOUND CROSS CONNECTOR (I-57 TO I-94)  
 NB BF: NORTHBOUND BISHOP FORD FWY (I-94)  
 SB BF: SOUTHBOUND BISHOP FORD FWY (I-94)  
 JACK: STORM SEWERS JACKED IN PLACE (REINFORCED CONCRETE PIPE, NOT LESS THAN CLASS IV).

REVISIONS	
NAME	DATE