

I. WASTEWATER SYSTEM DETAILS – EXHIBIT LISTING

GENERAL

1S OIL/GREASE INTERCEPTOR

2S SAND/OIL INTERCEPTOR

3S GREASE TRAP

4S POTABLE WATER MAIN, WASTEWATER MAIN & STORM SEWER CONFLICT

5S POTABLE WATER/FORCE MAIN PRESSURE PIPE CONFLICT

6S OPEN CUT PIPE INSTALLATION - NON-THOROUGHFARE ROAD

7S OPEN CUT PIPE INSTALLATION - THOROUGHFARE ROAD

8S TYPICAL TRENCH DETAIL & ROOT BARRIER INSTALLATION

9S WASTEWATER SYSTEM STANDARD CUT IN DETAILS

10S PRESSURE TEST CRITERIA FOR GRAVITY WASTEWATER MAIN IN WELL FIELD
AND FORCE MAIN

11S TYPICAL CLEANOUT INSTALLATION

12S TYPICAL WASTEWATER SERVICE CONNECTIONS

I. WASTEWATER SYSTEM DETAILS – EXHIBIT LISTING (cont'd)

GRAVITY SEWER MANHOLES WITHOUT CAST-IN WALL LINER

13S STANDARD MANHOLE

14S SHALLOW MANHOLE

15S DROP CONNECTION PRECAST MANHOLE

16S INVERT FLOW CHANNELS

17S GRAVITY SEWER MANHOLE FRAME & COVER

I. WASTEWATER SYSTEM DETAILS – EXHIBIT LISTING (cont'd)

GRAVITY SEWER MANHOLES WITH CAST-IN WALL LINER

18S STANDARD MANHOLE WITH CAST-IN LINER

19S SHALLOW MANHOLE WITH CAST-IN LINER

20S OUTSIDE DROP MANHOLE WITH CAST-IN LINER

21S PIPE TO MANHOLE CONNECTION - TYPE "A"

22S PIPE TO MANHOLE CONNECTION - TYPE "B"

23S PIPE TO MANHOLE CONNECTION - TYPE "C"

24S PIPE TO MANHOLE CONNECTION FOR CORE DRILLED INVERT

25S PIPE TO DROP MANHOLE CONNECTION - LOWER INVERT

26S BASE MANHOLE SECTION WATERSTOP DETAIL

27S TURN BACK JOINT INSTALLED PRIOR TO CAST

28S TURN BACK JOINT INSTALLED AFTER CAST

I. WASTEWATER SYSTEM DETAILS – EXHIBIT LISTING (cont'd)

GRAVITY SEWER MANHOLES WITH CAST-IN WALL LINER & BASE LINER

29S STANDARD MANHOLE WITH CAST-IN LINER & BASE LINER

30S SHALLOW MANHOLE WITH CAST-IN LINER & BASE LINER

31S OUTSIDE DROP MANHOLE WITH CAST-IN LINER & BASE LINER

32S MANHOLE BASE SECTION

33S FLOW CHANNEL/PIPE CONNECTION TO NEW CAST-IN BASE LINER

34S FLOW CHANNEL/PIPE CONNECTION TO EXISTING CAST-IN BASE LINER

35S PIPE TO MANHOLE CONNECTION DETAIL - TYPE "A" (GASKET)

36S PIPE TO MANHOLE CONNECTION DETAIL - TYPE "B" (BOOT)

I. WASTEWATER SYSTEM DETAILS – EXHIBIT LISTING (cont'd)

FORCE MAINS

37S CONNECTION OF PRIVATE FORCE MAIN UNDER 4" IN DIAMETER

38S TYPICAL FORCE MAIN GATE VALVE SETTING AND CUT-IN DETAIL

39S FORCE MAIN AIR RELEASE VALVE & VAULT OUTSIDE OF ROAD RIGHT-OF-WAY,
NON TRAFFIC AREAS

40S FORCE MAIN AIR RELEASE VALVE AND MANHOLE IN PAVED AREAS AND ROAD
RIGHT-OF WAY

41S MECHANICAL THRUST RESTRAINT - MINIMUM PIPE LENGTHS (FORCE MAINS)

42S TYPICAL THRUST BLOCKS FOR PRESSURE PIPING

43S FORCE MAIN ENTERING MANHOLE

44S WASTEWATER MAIN CASING INSTALLATION

45S TYPICAL FORCE MAIN AERIAL CANAL CROSSING- SINGLE PIPE (SINGLE PILES)

46S FAN GUARD/PILE CAP DESIGN - SINGLE PIPE (SINGLE PILES)

LIFT STATIONS

47S TYPICAL LIFT STATION SITE PLAN DETAIL
48S TYPICAL LIFT STATION SITE PLAN NOTES
49S TYPICAL LIFT STATION SECTION WITH CAST-IN LINER
50S LIFT STATION TOP SLAB
51S LIFT STATION WITH 2" CONDUIT CONNECTION
52S LIFT STATION WETWELL SETTING TREMIE POUR DETAIL
53S LIFT STATION STANDARD ALUMINUM COVER AND PUMP CABLE RACK
54S HOSE CONNECTION WITH RP BACKFLOW PREVENTER FOR LIFT STATION
WATER SERVICE
55S FENCE AND GATE DETAIL
56S LIFT STATION ELECTRICAL RACK FOR GENERATOR RECEPTACLE ON LEFT SIDE
57S LIFT STATION ELECTRICAL RACK FOR GENERATOR RECEPTACLE ON RIGHT SIDE
58S CONTROL PANEL INSTALLATION NOTES
59S CONTROL PANEL - INTERNAL PANEL LAYOUT FOR MOTORS SMALLER THAN 20 HP
60S CONTROL PANEL - INTERNAL PANEL LAYOUT FOR MOTORS 20 HP AND LARGER
61S LIFT STATION CONTROL PANEL INNER DOORS FOR MOTORS SMALLER THAN 20
HP
62S LIFT STATION CONTROL PANEL INNER DOORS FOR 20 HP MOTORS AND LARGER
63S ELECTRICAL PANEL SPECIFICATIONS (1 OF 3)
64S ELECTRICAL PANEL SPECIFICATIONS (2 OF 3)
65S ELECTRICAL PANEL SPECIFICATIONS (3 OF 3)
66S CONTROL PANEL - BILL OF MATERIALS
67S CONTROL PANEL - 240V & 480V PANELS NOTES
68S LIFT STATION ELECTRICAL SCHEMATIC (1 OF
3) 69S LIFT STATION ELECTRICAL SCHEMATIC (2
OF 3) 70S LIFT STATION ELECTRICAL SCHEMATIC
(3 OF 3)
71S LIFT STATION ELECTRICAL SCHEMATICS WITH SOFT STARTERS (SHEET 1 OF 3)
72S LIFT STATION ELECTRICAL SCHEMATICS WITH SOFT STARTERS (SHEET 2 OF 3)
73S LIFT STATION ELECTRICAL SCHEMATICS WITH SOFT STARTERS (SHEET 3 OF 3)
74S LIFT STATION CONTROL PANEL ELECTRICAL RISER
75S REMOTE TELEMETRY UNIT SPECIFICATIONS (SHEET 1 OF 5)
76S REMOTE TELEMETRY UNIT SPECIFICATIONS (SHEET 2 OF 5)
77S REMOTE TELEMETRY UNIT SPECIFICATIONS (SHEET 3 OF 5)
78S REMOTE TELEMETRY UNIT SPECIFICATIONS (SHEET 4 OF 5)
79S REMOTE TELEMETRY UNIT SPECIFICATIONS (SHEET 5 OF 5)
80S RTU WIRING DIAGRAM/PLC ANALOG INPUT WIRING DIAGRAM
81S TYPICAL LIFT STATION (SECTION)

VACUUM SEWER

82S TYPICAL WASTEWATER SERVICE INSTALLATION FOR VACUUM SEWER
83S RIP-RAP INSTALLATION DETAIL

WASTEWATER SYSTEM

STANDARD DETAILS 1S-

83S