30 DIA. RAINPROOF—ROOF HATCHES MAXIMUM ELEV .= 294'-9" 24 DIA. VENTILATION HATCH INSIDE TANK LADDER -(SEE NOTE #2) INSIDE ACCESS -TUBE LADDER (SEE NOTE #2) ELEV.=250'-9" DOUBLE CURVED KNUCKLE - WITH SMOOTH TRANSITION 4" DRAIN EQUIPPED WITH A SHUTOFF VALVE CONNECTING RISER TO OVERFLOW (PIPING & VALVE TO BE INSULATED AS REQUIRED FOR RISER) SHAFT LADDER -(SEE NOTE #2) 30" DIA. MANHOLE-DOUBLE CURVED KNUCKLE-WITH SMOOTH TRANSITION BELL LADDER --- (SEE NOTE #2) 3/4" \$\phi CORP. STOP-AND SAMPLE TAP PRESSURE GAGE -----TO ALTITUDE VALVE VAULT -----RINGWALL OPENING (SEE TANK NOTE #3) PRESSURE GAGE (0-100 psi) 1/2" BALL VALVE ---1/2" COPPER PIPE WRAP PIPE IN INSULATION

SPHEROID TANK

PRESSURE-VACUUM --RELIEF VENT

48" DIA. ACCESS TUBE

500,000 GAL. CAPACITY

18" X 24" PAINTERS VENT

---- 24" DIAMETER RAINPROOF

TOP PLATFORM W/30" DIA. MANHOLE

- PROVIDE DRAIN FOR CONDENSATE

--- BOTTOM PLATFORM

- 10' DIAMETER SHAFT (MIN.)

8" DIAMETER OVERFLOW PIPE

----12" DIAMETER STEEL RISER PIPE (SCH. 30)

1" THK. RIGID CELLULAR PIPE INSULATION PROTECTED WITH AN ALUMINUM JACKET (EXTEND FROM TANK BOWL TO FLOOR)

-36"x 80" BELL DOOR

- SPLASH PAD

1/2" EXPANSION JOINT

1" COPPER PRESSURE SENSING LINE FROM ALTITUDE VALVE —

12" DIA. x 4" DEEP SUMP -

(SEE NOTE 4 THIS SHEET)

-- 12" GATE VALVE(O, S & Y)

-6" VDOT No.57
STONE

TANK ELEVATION

NOT TO SCALE

- BLEED VALVE

PIPE SUPPORTS

AS NEEDED

PRESSURE GAGE NOT TO SCALE

---- PAINTERS RINGS

SPHEROID SHAPED TANK

TANK NOTES

- THE TANK FOUNDATION SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER. DETAILED FOUNDATION PLANS FOR THE TANK SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER. THE FOUNDATION SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF VIRGINIA.
- LADDERS IN BELL, PEDESTAL, ACCESS TUBE, AND TANK SHALL BE EQUIPPED WITH RIGID—RAIL TYPE SAFETY CLIMB DEVICES MEETING OSHA REQUIREMENTS. IN ADDITION PROVIDE CAGE AROUND LADDER.
- OPENING IN RINGWALL FOR THE WATER LINE SHALL BE A NOMINAL 1-INCH LARGER THAN FLANGE DIAMETER. THE ANNULAR SPACE AROUND PIPE SHALL NOT BE GROUTED
- . TANK CONTRACTOR TO ENSURE THAT OVERLOW PIPE WILL ACCOMMODATE A MAXIMUM OVERFLOW RATE OF 1500 GPM.

DRESSER STYLE 127
FLANGED ADAPTER ----

TOP ELEV.=125.0

TANK LOGO NOTE

THE TANK SIGN SHALL SAY "YOU BELONG IN PRINCE GEORGE COUNTY." ON ONE SIDE OF THE TANK. THE COUNTY WILL PROVIDE THE SIGN SPECIFICATIONS IN THE BIDDING DOCUMENTS

2" CHAMFER (TYP.)

ALTITUDE VALVE VAULT NOTES

--- HALLIDAY MODELS2S6060 ACCESS DOOR

- 12" 2-WAY ALTITUDE VALVE (CLA-VAL 210-16 OR APPROVED EQUAL)

12" FLANGED GATE VALVE

WITH O.Y. & S. (TYP)

- THE ALTITUDE VALVE SHALL BE A 12 INCH CLA-VAL MODEL 610-16 ALTITUDE VALVE FOR TWO-WAY FLOW. THE VALVE SHALL BE A NON-THROTTLING, HYDRAULICALLY OPERATED AND PILOT CONTROLLED VALVE THAT REMAINS FULLY OPEN UNTIL THE SHUT OFF POINT IS REACHED. THE VALVE SHALL CLOSE AT A
- ALL PIPE AND FITTINGS WITHIN THE CONTROL VALVE VAULT SHALL BE 250 LB. FLANGE. PIPE SHALL BE A MINIMUM CLASS 52 IN ACCORDANCE WITH ANSI A21.15

- 6. ALL JOINTS SHALL BE SEALED WITH A BUTYL RUBBER SEALANT.

VALVE PIT NOTES

8' DIA. PRECAST CONCRETE VAULT

- DETAILED STRUCTURAL PLANS FOR THE VALVE PIT SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER. THE VALVE PIT SHALL BE STRUCTURALLY DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF VIRGINIA.
- 2. ALL PIPING INSIDE THE VALVE PIT SHALL BE 125 LB. FLANGE. OPENING IN VALVE PIT WALL SHALL BE A NOMINAL 1-INCH LARGER THAN FLANGE DIAMETER. PROVIDE LINK-SEAL WALL SLEEVE AND SEAL (OR EQUAL) FOR A WATERTIGHT WALL PENETRATION.

---- HALLIDAY MODEL S266060 ACCESS DOOR

12" 2-WAY ALTITUDE
VALVE (CLA-VAL 210-16
OR APPROVED EQUAL)

- 6" PVC FLOOR DRAIN

6° PVC VAULT DRAIN TO DAYLIGHT • 1.0%. INSTALL MESH AT END V

-12" PVC (C900)

TO DISTRIBUTION SYSTEM

12"X 8" M.J. TEE (TYP.)

8" MJ. 90" BEND (TYPICAL)

12" D.I. WATER MAIN

S

REVISIONS

AS NOTED

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HIGH WATER LEVEL AND OPEN FOR RETURN FLOW WHEN THE PRESSURE AT THE VALVE INLET IS LESS THAN THE TANK PRESSURE.

(AWWA C115). ALL FLANGES SHALL CONFORM TO CLASS 250, ANSI B16.1.

- . ALL VALVES SHALL BE SUPPORTED WITH PIPE SADDLE SUPPORTS AS SHOWN.
- 4. ALL PRE-CAST VAULT SECTIONS SHALL CONFORM TO ASTM C913.
- 5. THE FLOOR SLAB SHALL BE SLOPED 1/8" PER FOOT TO THE SUMP.
- . THE BASE VAULT SECTION INCLUDING THE SUMP SHALL BE MONOLITHIC.

