

FOOTING ELEVATIONS SHOWN REPRESENT THE MINIMUM DEPTH TO WHICH FOOTINGS SHALL BE CARRIED. IF FOOTING EXCAVATIONS REVEAL DISTURBED, UNSTABLE, OR UNSUITABLE SOIL, THE ENGINEER SHALL BE NOTIFIED. FOOTINGS SHALL BE LOWERED AS REQUIRED TO OBTAIN SUITABLE BEARING. ALL UNSUITABLE FOUNDATION MATERIAL SHALL BE REMOVED AND FOOTINGS SHALL REST ON UNDISTURBED SOIL OR PRE-ENGINEERED FILL USING SUITABLE MATERIAL OR COMPACTED #21A BASE COURSE WITH A MINIMUM BEARING CAPACITY OF 1,500 PSF. COMPACT EACH LAYER OF FILL OR BACKFILL TO 95% OF THE MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 698.

FOUNDATIONS

### CONCRETE

- ALL REINFORCING SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH ACI 315-80, REVISED 1986, UNLESS OTHERWISE NOTED. ALL SPLICES SHALL BE CLASS B TENSION WITH ALL APPLICABLE MODIFICATION FACTORS, UNLESS OTHERWISE NOTED. SPLICES NOT INDICATED MAY BE PROVIDED IF PROPERLY DETAILED ON SHOP DRAWINGS AND APPROVED BY THE ENGINEER. SPREAD REINFORCING AT OPENINGS AND SLEEVES UNLESS OTHERWISE DETAILED. DO NOT CUT REIN-FORCING BARS. CONCRETE PROTECTION FOR REINFORCEMENT SHALL CONFORM TO ACI 301-89 AND SHALL BE INDICATED ON THE SHOP DRAWINGS. ALL SPLICE LENGTHS AND EMBEDMENT LENGTHS, BENDING DIAGRAMS, AND ASSEMBLY DIAGRAMS SHALL BE INDICATED ON THE SHOP DRAWINGS.
- 2. CHAMFER ALL EXPOSED EDGES OF CONCRETE 1 INCH.
- CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS PRIOR TO PLACING ANY CONCRETE SO THAT REINFORCEMENT, SLEEVES, PIPES, INSERTS, HANGERS, ETC., CAN BE INSPECTED FOR CONFORMANCE WITH PLANS AND SPECIFICATIONS.

### PRECAST CONCRETE UTILITY BUILDING

- 1. THE CONTRACTOR SHALL COORDINATE STRUCTURAL DRAWINGS WITH DRAWINGS FURNISHED BY PRECAST BUILDING MANUFACTURER PRIOR TO CONSTRUCTION. ANY DISCREPANCY SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- SHOULD THE CONTRACTOR SELECT A PRECAST BUILDING WITH DIFFERENT DETAIL REQUIREMENTS. THEN ANY MODIFICATIONS TO THE FOUNDATION. SLAB, ETC. SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.

# 1. 8"-90" MJ BEND (RESTRAINED)

- 2. 4"-90° BEND 3. 4" FLOOR DRAIN W/TRAP- BRASS FLOOR GRATING AND FRAME
- PUMP AND MOTOR 5. 3"-90" BEND (AS REQUIRED BY PUMP MFG.)
- 6. NOT USED

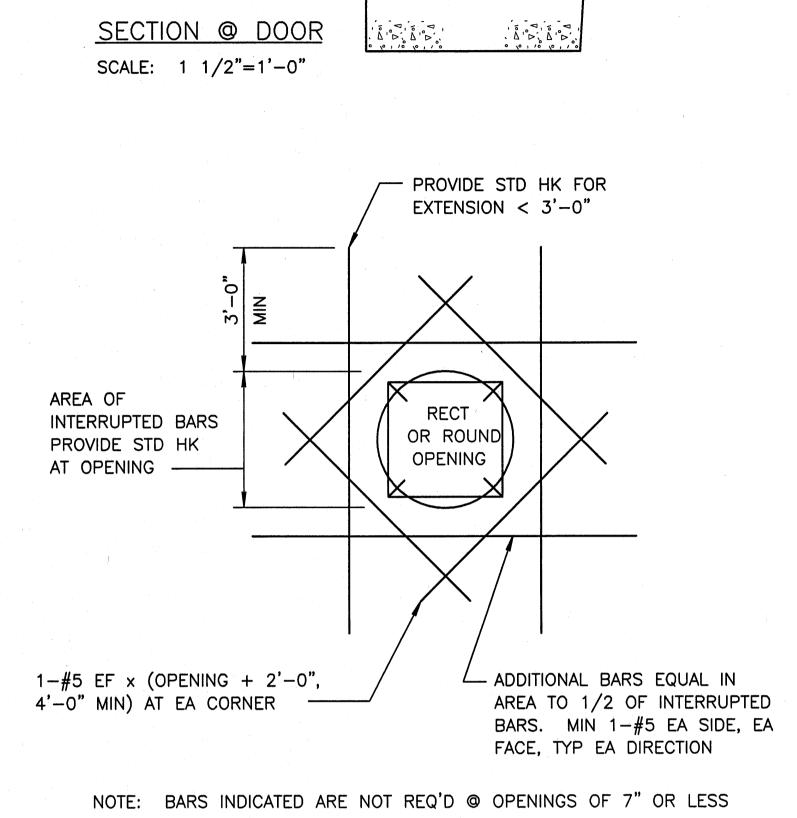
LEGEND

7. 4" GATE VALVE

10. 4" SURGE RELIEF VALVE (ANGLE)

- AIR RELIEF VALVE AND SPOOL PIECE 9. 4" TEE
- 11. 4" SPOOL PIECE (LENGTH AS REQUIRED) 12. 4" FLEXIBLE COUPLING (RESTRAINED TYPE)
- 13. 8" x 4" REDUCER
- 14. 4" x 3" REDUCER 15. CONC. PUMP BASE (SEE NOTE THIS PAGE)
- 16. PIPE SUPPORT
- 17. ELECTRIC HEATER (MH 6'-6") 18. RADIO MODEM AND SCADA PANEL
- 19. 3'-0" X 6'-8" DOUBLE DOORS
- 20. NOT USED
- 21. NOT USED
- 22. NOT USED
- 23. LOW SUCTION PRESSURE CUTOFF SWITCH AND TRANSDUCER SET AT 70 PSI
- 24. PRESSURE GAUGE (DISCHARGE) 25. PRESSURE GAUGE (SUCTION)
- 26. PRESSURE TRANSMITTER TO SCADA (ACTIVATES PUMPS IF TELEMETRY FAILS)
- 27. 4" PVC ELBOW
- 28. 4" FLANGED SLUDGE SHOE FITTING
- 29. 4" PRESSURE SUSTAINING VALVE
- 30. NOT USED
- 31. DISCHARGE PRESSURE TRANSMITTER
- 32. 2"-90" BEND (AS REQUIRED BY PUMP MFG.)
- 33. 4" x 2" REDUCER

PROVIDE PIPING OR TUBING FROM PUMP BASES AND AIR RELEASE TO FLOOR DRAIN.



H.M. FRAME

THRESHOLD

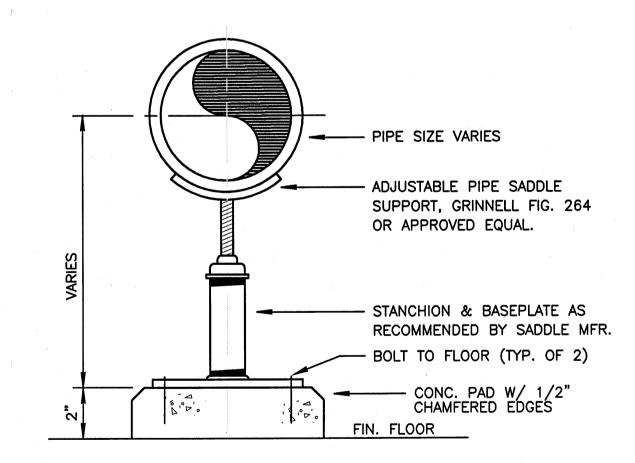
5" CONC. WALK

W/ #4@12 EW

**EXPANSION** 

W/ SEALANT

## TYPICAL SLAB OPENING DETAIL NOT TO SCALE



FLOOR PIPE SUPPORT

# D S S

RECORD DRAWINGS

\*-\*-14\_ASBUILT LAYOUT1\_1\_PAGE 1.-2/16/05 10:27:31 AM

CONCRETE PUMP BASES SHALL BE SIZED TO BE 2" LARGER ON ALL SIDES THAN THE PUMP BASE AND SHALL BE THE PROPER HEIGHT TO SUIT THE

PUMPS PROVIDED.

REFER TO SECTION FOR REINFORCING OF WALLS, FOOTINGS

SCALE: 3/4"=1'-0"

FIN. FLOOR ELEV. 1132.0 @ WALLS SLOPE FLOOR TO FLOOR DRAIN

 $R:\DWG\2120\DWGS\14.DWG$ 

-TURN DOWN

CONC. SLAB

No. 023879

Commission Number:

Vertical Scale:

Sheet No.: