SHALLOW BURY HYDRANT AND FAN GUN STATION DETAIL - TYP.

ELEVATED PIPE SUPPORT
20' MINIMUM SPACING
12" HEADER LINE FROM VALVE PIT #8 TO VALVE PIT D (ALTERNATE #1)
SECTION A-A

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

POUR 10" CONCRETE SLAB MINIMUM 4000 PSI ON TOP OF EXISTING BLOCK
PROVIDE NO. 6 EPOXY COATED REBAR AT 6" SPACING EACH WAY AT VERTICAL HOLE LOCATIONS;
PROVIDE 6" LONG DIAGONAL BARS AROUND HOLES

2" CLEAR SPACE

CORE HOLE AND GROUT ANNULAR SPACE IN EXISTING BLOCK WALL (ALTERNATE HEADER)

FIELD VERIFY ELEVATIONS OF EXISTING PIPES
CONNECT AND BRING PIPES VERTICAL AT LOCATIONS SPECIFIED ON SHEET M1

6" STUD WALL CONSTRUCTION
NEW FLOOR SLAB
FILL EXISTING SPACE WITH SAND
EXISTING BUILDING FLOOR

WRITTEN CONSENT FROM THE COMPANY. PROPERTY OF TORRENT ENGINEERING AND EQUIPMENT, LLC, AND SHALL NOT BE REPRODUCED OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT.
SCOPE -
- (1) NEW 12" (TRAIL #9)
- CAP EXISTING CITY SUPPLY & REMOVE BOOSTER PUMP
- ALTERNATE - UPGRADE EXISTING 8"/8 TO VALVE STATION D TO 12"/8

NOTE: ALL STEEL PIPING, VALVES, AND FITTINGS TO BE ANSI CLASS 300 RATED
TORRENT
Engineering and Equipment

P.O. BOX 270
Phone: (574) 658-3200
Fax: (574) 658-3229
MILFORD, IN 46542 USA

SCOPE -
- NEW 12" SUPPLY TRAIL #10
- ABANDON TRAIL #11 TO DAYLIGHT
- CITY SUPPLY
- NEW 12" SUPPLY TRAIL #11
- TRAIL #13
- TRAIL #12
- TRAIL #11B
- TRAIL #8
- TRAIL #7
- TRAIL #10
- TRAIL #9B
- TRAIL #9
- TRAIL #6
- TRAIL #5
- TRAIL #4
- TRAIL #3
- TRAIL #2
- TRAIL #1
- TRAIL #8A
- UP HILL
- SUPPLY TRAIL #10
- SUPPLY TRAIL #9B
- ABANDON TRAIL #11 TO DAYLIGHT
- CITY SUPPLY
- NEW 12" SUPPLY TRAIL #11
- TRAIL #13
- TRAIL #12
- TRAIL #11B
- TRAIL #8
- TRAIL #7
- TRAIL #10
- TRAIL #9B
- TRAIL #9
- TRAIL #6
- TRAIL #5
- TRAIL #4
- TRAIL #3
- TRAIL #2
- TRAIL #1
- TRAIL #8A
- UP HILL

NOTE: ALL STEEL PIPING, VALVES, AND FITTINGS TO BE ANSI CLASS 300 RATED
**CODE SUMMARY**

**CODES USED:**
- 2006 INTERNATIONAL BUILDING CODE (IBC)
- 2007 MINNESOTA STATE BUILDING CODE (MSBC): CHAPTER 1305

**OCCUPANCY:**
- GROUP U
- UTILITY AND MISCELLANEOUS (PUMP SHED)

**CONSTRUCTION TYPE:**
- VB

**ALLOWABLE AREA:**
- FULL SCALE 1/4"=1'-0" 5,500 SF

**ACTUAL AREA:**
- GROUP U
- MAIN FLOOR 224 SF

**MATERIALS:**
- OVERHANG SLOPE 4:12
- BUILDING PERIMETER SLOPE 4:12

**AUTOMATIC FIRE PROTECTION:**
- NOT REQUIRED

**FIRE RESISTIVE REQUIREMENTS:**
- STRUCTURAL FRAME
  - 0 HOUR
- BEARING WALLS (EXT)
  - 0 HOUR
- BEARING WALLS (INT)
  - 0 HOUR
- NONBEARING WALLS (EXT)
  - TABLE 602
- NONBEARING WALLS (INT)
  - 0 HOUR
- FLOOR CONSTRUCTION
  - 0 HOUR
- ROOF CONSTRUCTION
  - 0 HOUR
- EXTERIOR WALLS
  - <5 FEET 1 HOUR
  - 5 FEET TO <10 FEET 1 HOUR
  - 10 FEET TO <30 FEET 1 HOUR
  - >30 FEET 0 HOUR
- EXTENSION WALL OPENINGS
  - UNPROTECTED
  - <3 FEET NOT PERMITTED
  - >3 FEET TO 5 FEET NOT PERMITTED
  - >5 FEET TO 10 FEET 10%
  - >10 FEET TO 15 FEET 15%
  - >15 FEET TO 20 FEET 25%
  - >20 FEET TO 25 FEET 45%
  - >25 FEET TO 30 FEET 70%
  - >30 FEET UNLIMITED
- PROTECTED
  - NOT APPLICABLE

**INTERIOR FINISH REQUIREMENTS:**
- Exit Enclosures and Exit Passageways
  - NO RESTRICTIONS
- Corridors
  - NO RESTRICTIONS
- Rooms and Enclosed Spaces
  - NO RESTRICTIONS

**PROJECT REQUIREMENTS:**
- OCCUPANT LOAD
  - EQUIPMENT ROOM - 224 SF / 300 OCF 1 OCCUPANTS
- EXIT ACCESS TRAVEL DISTANCE
  - GROUP U WITHOUT SPRINKLER MAXIMUM 300 FT
  - BUILDINGS WITH ONE EXIT
    - GROUP U 1 STORY MAXIMUM 49 OCCUPANTS AND 75 FEET TRAVEL DISTANCE
- SANITATION REQUIREMENTS
  - NOT REQUIRED

**COMMENTS:**
1. PROJECT SCOPE INCLUDES CONSTRUCTION OF NEW PUMP SHED ON EXISTING FOUNDATION AND FOOTING.
2. NO CHANGE OF USE.
3. SPECIAL INSPECTIONS NOT REQUIRED.
4. WLSSD CAF FEES NOT REQUIRED.
5. UNIFIED DEVELOPMENT CODE CHAPTER 50 REQUIREMENTS NOT APPLICABLE, NO CHANGE OF USE.

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**ROOF PLAN**

**FLOOR PLAN**

**REVISIONS:**
- SHEET NO.
- ON HILL
- IMPROVEMENTS
- SPIRIT MOUNTAIN
- 9500 SPIRIT MOUNTAIN PL
- DULUTH, MINNESOTA  55810

**PROJECT:**
- OCTOBER 20, 2014

**CHECKED:**
- WILLIAM B. SCALZO
- OCTOBER 20, 2014

**SITE PLAN:**
- CALZO ARCHITECTS LTD.
- 1320 South Road
- Duluth, Minnesota 55810
- Tel: 218-726-0202
- Fax: 218-726-0206

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**DATE:**
- OCTOBER 20, 2014

**LICENSE NO:**
- 18130
TYPICAL WALL CONSTRUCTION:
(INSIDE TO OUTSIDE)
1x12 FASCIA BOARD
1/2" EXTERIOR SHEATHING
AIR/WEATHER BARRIER
T1-11 PLYWOOD SIDING PANEL

EXISTING CMU WALL
EXISTING CONCRETE FLOOR SLAB

TYPICAL ROOF / CEILING CONSTRUCTION:
(INSIDE TO OUTSIDE)
METAL LINER PANEL
8 MIL POLY VAPOR BARRIER
PRE-ENGINEERED ROOF TRUSS W/ 1'-0" ENERGY HEAL
12" BATT INSULATION
1/2" ROOF SHEATHING
ICE AND WATER SHIELD
ASPHALT SHINGLES

EXISTING CONCRETE FLOOR SLAB
POURED CONCRETE FLOOR SLAB
2x6 TREATED PLATE W/ SILL SEAL - SECURE TO EXISTING WALL
1" EXPANSION MATERIAL
2x6 TREATED PLATE W/ SILL SEAL - SECURE TO EXISTING WALL

T.O. BEARING
108'-0"

T.O. SLAB
108'-0"

(2) 3'-0"x7'-0" EXTERIOR HOLLOW METAL DOORS/ FRAME ASSEMBLY
PREFINISHED METAL FASCIA
PREFINISHED METAL DRIP EDGE
PREFINISHED METAL FASCIA
INSULATION BAFFLE
VENTED SOFFIT
Poured Concrete Soffit