

## **Town of Mendon Information to Bidders**

**PROJECT:** Installation of Dry Hydrant Piping and Construction of Vehicle Turnout

**LOCATION:** Pond west of Cortina Resort, 5709 U.S. Route 4, Mendon, VT

**HISTORY:** The existing 6" dry hydrant system was installed when the Cortina was constructed for use as a water supply for the fire department when the resort was a hotel with no fire sprinkler system in the building. The dry hydrant was located in the field west of the pond, approximately 250 feet off of the US Route 4 roadway. This location has been in service since the early days of operation of the resort. The access to the hydrant is across an open field area that does not have an adequate driveway structurally that will support a large fire department pumper truck.

The present owners of the Cortina are transitioning the hotel into an assisted living facility. As part of the transition, an internal fire suppression system was installed that provides adequate internal water storage for 30 minutes of full sprinkler fire suppression for the facility, negating the need for the pond as part of the Cortina fire protection.

### **THE PROJECT**

The Town of Mendon and the Rutland City Fire Department have determined that the existing pond is an important source of water for the other buildings in the area. The Town of Mendon intends to upgrade the existing dry hydrant system to an 8" diameter supply pipe, relocate the inlet to a more southerly location in the pond and install the new 6" diameter dry hydrant riser closer to US Route 4 to facilitate the extraction of water from the pond.

A new gravel turnout area, 60' long by 35' wide will be constructed adjacent and parallel to the existing westbound driving lane. Turnout ends will 45 degree back to the existing roadway pavement as shown in the project sketches. The turnout will be constructed to adequately support a 57,000 pound fire department truck filled with water without causing damage to the new pavement area.

The new dry hydrant construction shall include the following items of work:

1. Excavate and remove existing muck, south of the large rock in the pond, down to the existing clay liner;
2. Install an Underwater Strainer Support to keep the strainer two feet above the pond bottom and 6' south of the large rock in the pond;
3. Install a 6" Horizontal PVC Strainer W/Back Flush Cover (flap gate) on the north end of the 8" diameter Schedule 40 PVC pipe;
4. Install approximately 50' of 8" diameter Schedule 40 PVC Pipe w/ all pipe joints to the 6" hydrant riser in accordance with the detail of the pipe trench;
5. Install two (2) Schedule 40 PVC Elbows w/Airtight Fittings and install a fire department connection on the riser;

6. Install a Reflective Dry Hydrant Sign set on a steel sign post 6' above the finish ground at the hydrant;
7. Construct standpipe protection of either two 1000-pound boulders or two concrete-filled 6" steel bollards set 3' in the ground and extending 3' above ground height painted safety red;
8. Grade a 35' wide by 60' long by 30" thick turnout with structural section consisting of 6" of "sure-pack" gravel compacted to 95% relative compaction over 24" of 1 ¼ " angular stone compacted in 6" lifts over one layer of geo-textile fabric, over native soil compacted to 90% relative compaction in the top 6";
9. Raise the existing Alpine Pipeline sewer manhole, located in the new turnout area, to the new surface grade of the turnout;
10. Spread excavated soil from the newly constructed turnout and pipeline excavation at a maximum gradient of 3:1 slope from the edge of the new turnout to existing surrounding ground; remove excess excavated soil not spread onsite and dispose of legally; seed (rye grass) and mulch all exposed newly-graded soil;
11. Remove and dispose of the old dry hydrant riser; salvage the fire department connection to the Town of Mendon garage; abandon the existing horizontal PVC pipe in-place after plugging the end with a concrete plug at least 6" long; cover the pipe end with soil and grade level;
12. New horizontal pipe with less than 4 feet of cover shall be covered with two-inch foam board insulation over the pipe; new pipe with more than 4' of cover need not be insulated.
13. Provide traffic control as necessary to insure the safety in the work area and roadway;
14. Perform any other incidental work required to accomplish Items 1-12.
15. Attachments: Sketch 1, Sketch 2, Sketch 3

#### **MANDATORY PRE-BID MEETING ONSITE:**

A mandatory pre-bid site meeting for all interested bidders will be held on November 18, 2019 at 11:00 am at 5709 US Route 4 in Mendon next to the pond. Bidder questions will be answered at the meeting. Attendance at this informational meeting is required in order to submit a bid for the work.

#### **WORK SCHEDULE**

The work is to be started after **June 1, 2020** and completed prior to **June 20, 2020**.

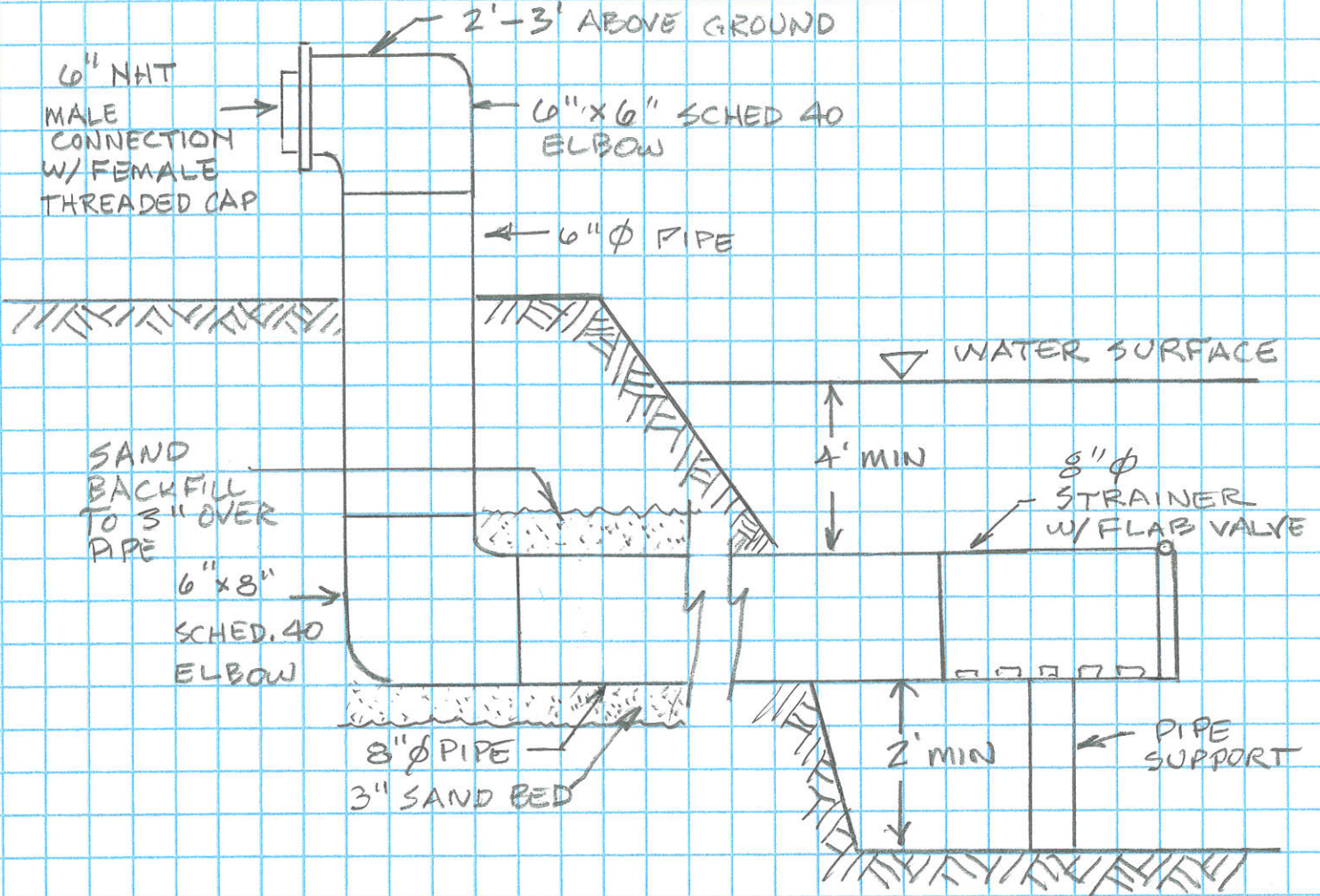
#### **BID SUBMITTAL**

Bids for the work shall be due at the Mendon town office by 12:00 noon on Monday, November 25, 2019. Please address bids to the Mendon Selectboard, 2282 US Route 4, Mendon, VT 05701. **Bids received after that time will not be accepted.**

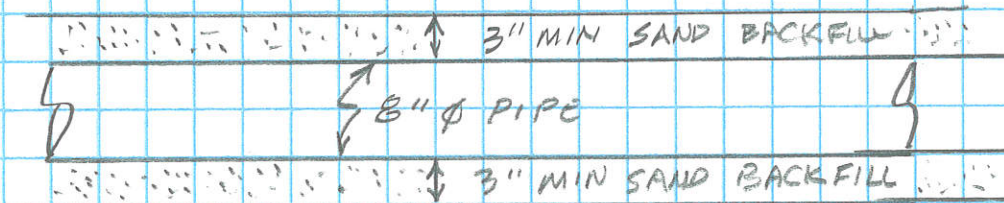
## **INSURANCE REQUIREMENTS**

The successful bidder shall be required to have the following insurance at the time the work is to be performed:

(1) Commercial General Liability insurance coverage with a policy limit of at least \$1,000,000 per occurrence and \$2,000,000 in aggregate; (2) Business Automobile Liability coverage with total liability limits of at least \$1,000,000; and (3) Statutory Workers' Compensation insurance. If Contractor is not required by law to carry workers' compensation insurance, in place of proof of workers' compensation insurance Contractor may provide a fully executed Non Employee Work Agreement specifying the particular provision of 21 V.S.A §601(14)(F) that exempts Contractor from having to carry such coverage. The Contractors policies shall name the Municipality as an additional insured.



PIPE DETAIL (NTS)

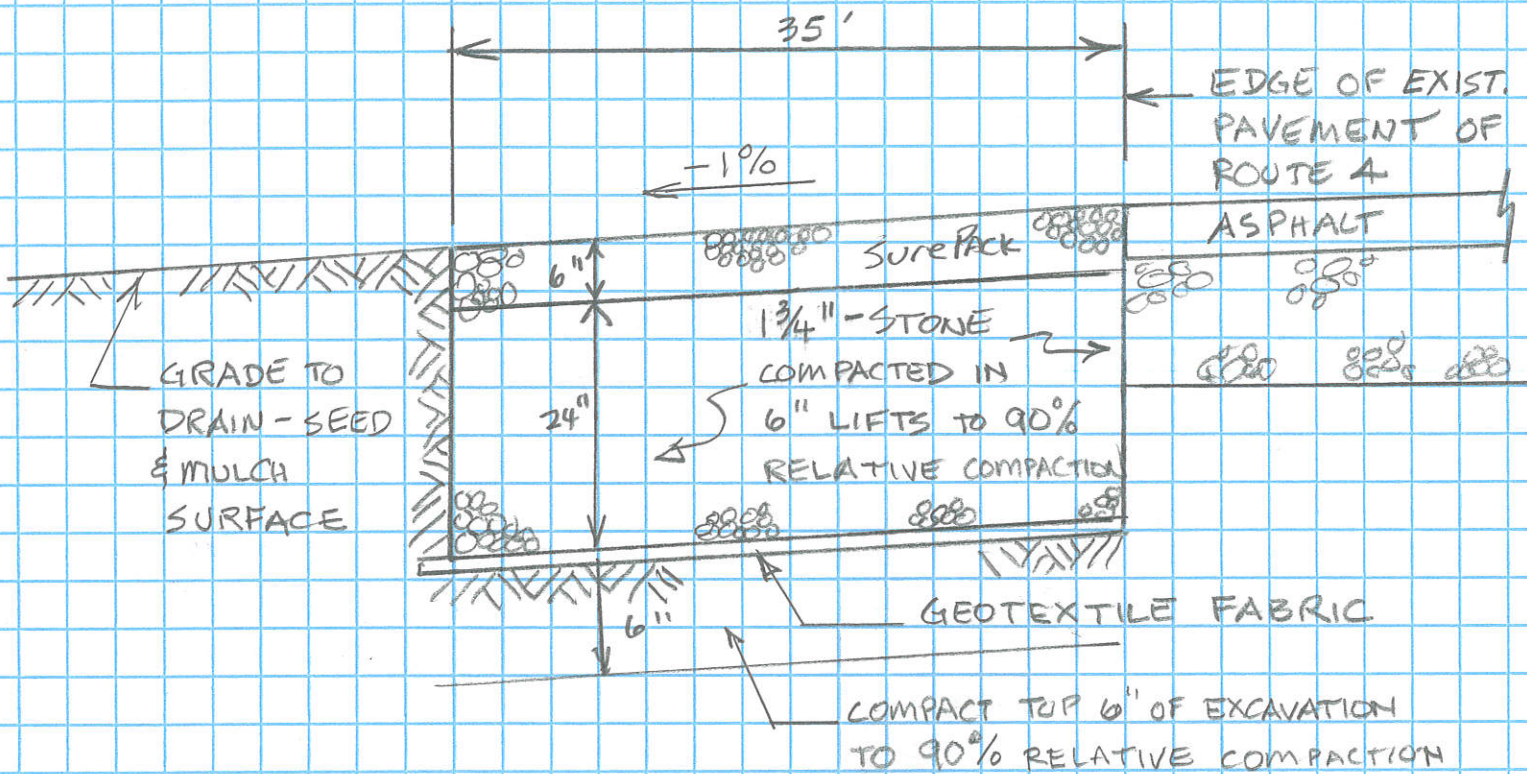


PIPE TRENCH TOP VIEW

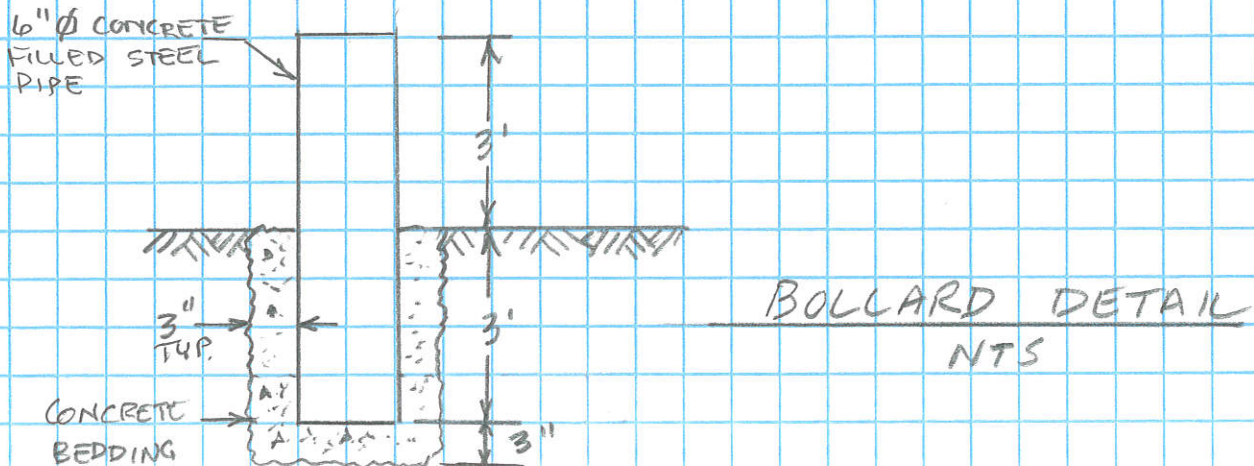
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SKETCH # 1



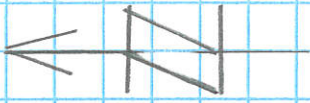


TURNOUT STRUCTURAL SECTION A-A  
NTS



SKETCH #2





← EXIST POND →



6'

NEW PIPE

STRAINER

NEW HYDRANT

BOLLARDS

A Δ

U.S. ROUTE 4

EXIST E/P

60'

35'



EXIST P.P. → ○

45°

TURNOUT PLAN VIEW

NTS

SKETCH #3

