

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES  
24 Env-Or 300

Env-Or 305.13 Oil Transfer and Dispensing Areas.

(a) Each area where oil is transferred from a cargo truck or railcar engaged in the transport of oil to an

AST system shall be constructed of a concrete pad or other impermeable surface that is of sufficient size for

all connection points to be situated over the impermeable area when oil is being transferred.

(b) Each area where oil is transferred from an AST system to a cargo truck or railcar engaged in the

transport of oil shall be constructed of a concrete pad or other impermeable surface that is of sufficient size

for the entire tank portion of the cargo truck or railcar being filled to be situated over the impermeable area

when oil is being transferred.

(c) Each area where oil is transferred from an AST system to the fuel tank of a motor vehicle (dispensing area) that was not used prior to May 28, 2005 shall be constructed of a concrete pad or other

impermeable surface.

(d) The concrete pad or impermeable surface required by (c), above, shall be:

(1) Of sufficient size for the entire motor vehicle being fueled, exclusive of any trailers, to be situated over the impermeable area when oil is being transferred; and

(2) Equipped with positive limiting barriers capable of containing a volume of at least 5 gallons for each dispenser in that dispensing area.

(e) Dispensing nozzles shall not extend beyond the positive limiting barriers required by (d)(2), above.

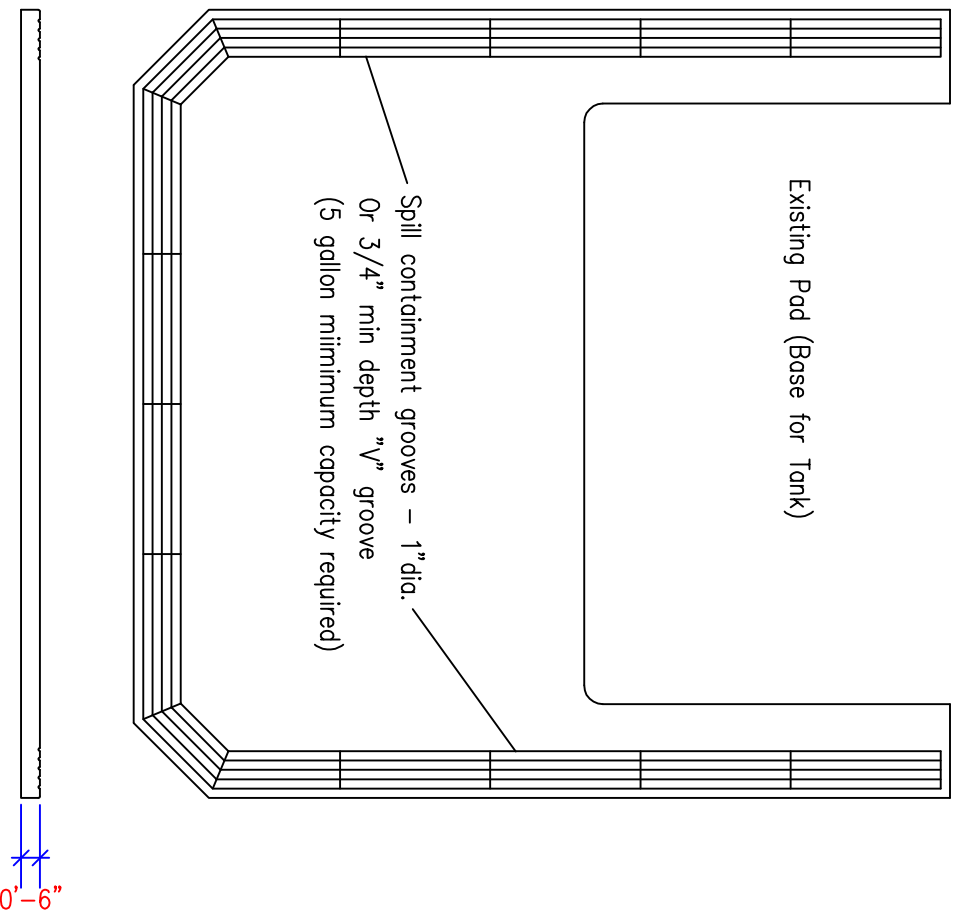
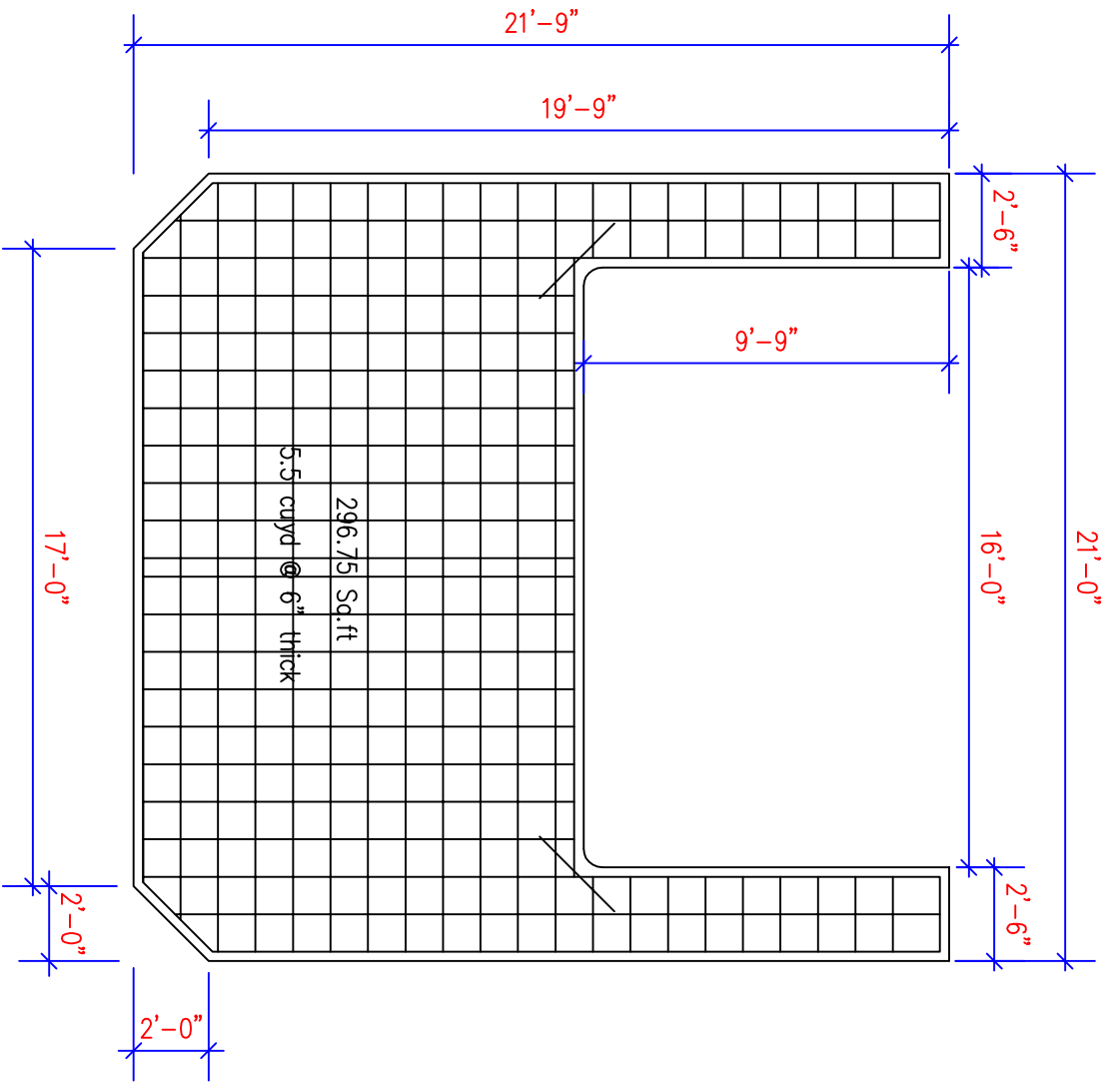
(f) Subject to (g), below, each dispensing area that was in use prior to May 28, 2005 that does not have

an impervious surface as specified in (c), above, as of February 7, 2014 shall install a concrete pad or other

impermeable surface that complies with (d), above, on or before February 7, 2016.

(g) Political subdivisions shall be exempt from (f), above, unless the local legislative body votes to fund

compliance or the state provides full funding.

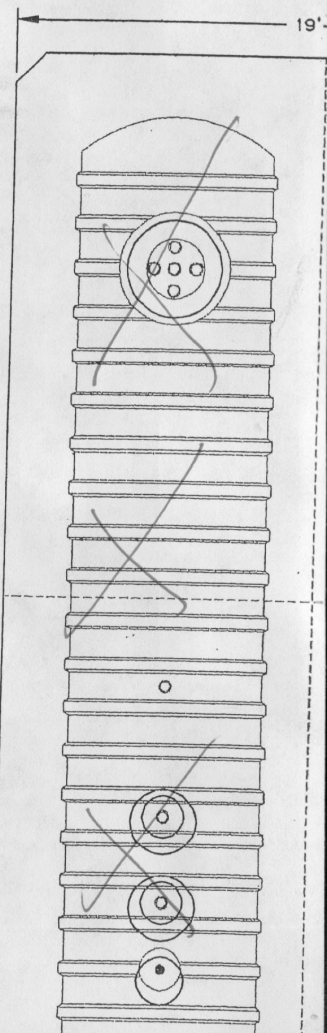
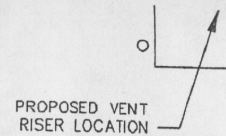
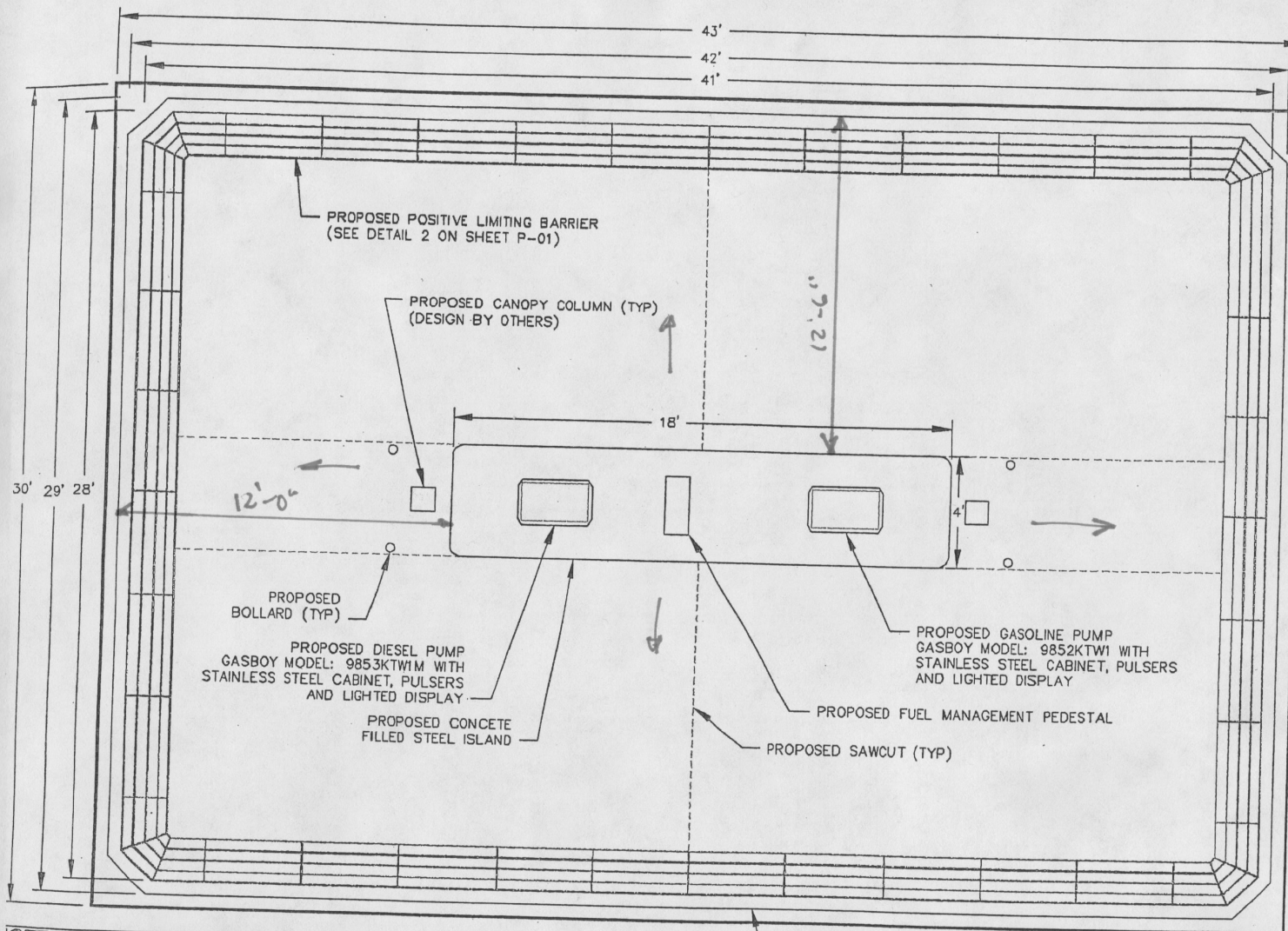


**Apron Construction Notes;**

1. Compact base soil with plate compactor.
2. Rebar Grid: #4 bar, 12" o.c. (see drawing for layout)
3. Top of Apron Elevation: 801.0' (same elevation as top of existing equipment shed slab.
4. NHDOT Class AA (see separate note for complete description)
5. Edges to be hand tooled with .5 to 1" radius.
6. Grooved catchment for spill containment: 245.25 lf of 1" dia groove @ .5" depth or equivalent. (5 gal capacity/required). See separate detail for layout.

**NHDOT Concrete Class "AA" specification:**

- Minimum 28 day compliance strength of concrete: 4000 psi
- Minimum amount of cement per cy of concrete: 656 lbs (7 bags)
- Maximum amount of water per bag of cement: 5 gallons
- Maximum water/cement ratio: .444 gallons
- Estimated air entrainment: 5-8 percent



**NOTE: DISPENSING NOZZLES SHALL NOT EXTEND BEYOND THE POSITIVE LIMITING BARRIER.**

*GRADE FROM ISLAND: 1" DROP IN 12' TO 12'-6" TOWARD POSITIVE BARRIER LIMITING*

**DETAILED LAYOUT**  
SCALE: 3/16" = 1'

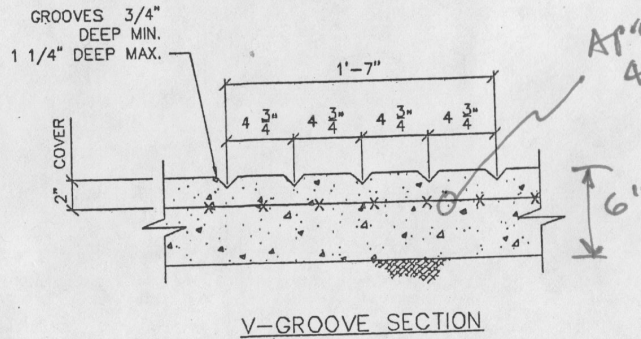
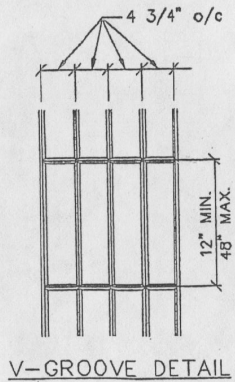
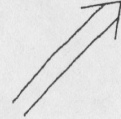
(SEE SHEET P-01 FOR PIPING LAYOUT, RELATIVE ELEVATIONS, TANK DETAILS, PLB DETAILS, MANHOLE CROWNING DETAIL AND SURFACE WATER FLOW. SEE SHEET P-02 FOR PIPING DETAILS SEE SHEET E-02 FOR MONITORING SYSTEM DETAIL S)

PROPOSED CONCRETE TANK PAD

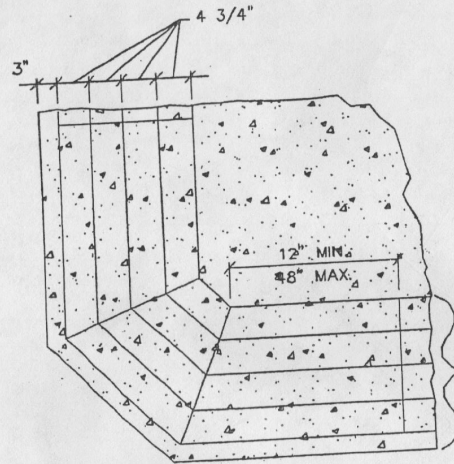
SYSTEMS (NOT SHOWN FOR CLARITY)

NEW 6,000 GALLON DW FRP GASOLINE

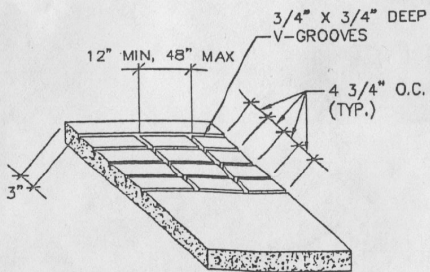
NEW 6,000 GALLON DW FRP DIESEL



*Apron reinforcing  
4x4x w/d/w 4.0 steel mesh  
top only*



THIS SECTION OF THE CONCRETE APRON TO REMAIN LEVEL



**POSITIVE LIMITING BARRIER NOTES:**

- 1) THE POSITIVE LIMITING BARRIER TO BE 5 CONTINUOUS "V" GROOVES 3/4" WIDE x 3/4" DEEP MIN. (1 1/4" DEEP MAX.), ON 4 3/4" CENTERS WITH CROSS INTERCONNECTING GROOVES, EQUALLY SPACED ON MIN. 12" MAX. 48" CENTERS.
- 2) GROOVES MUST BE KEPT CLEAN OF DIRT AND DEBRIS.
- 3) "V" GROOVES SHALL BE TROWELLED IN CONCRETE SLAB.

TYPICAL APRON CORNER DETAIL

V-GROOVE

DETAIL 2  
POSITIVE LIMITING BARRIER DETAILS  
N.T.S.