

State of Vermont
Department of Buildings & General Services
CALEDONIA COUNTY STATE AIRPORT
CIVIL AIR PATROL HANGER
LYNDON, VERMONT

AGENCY OF ADMINISTRATION
DEPT. OF BUILDINGS & GENERAL SERVICES
2 GOVERNOR AIKEN AVENUE
MONTPELIER, VERMONT 05633-5801
R. TASHA WALLIS, COMMISSIONER



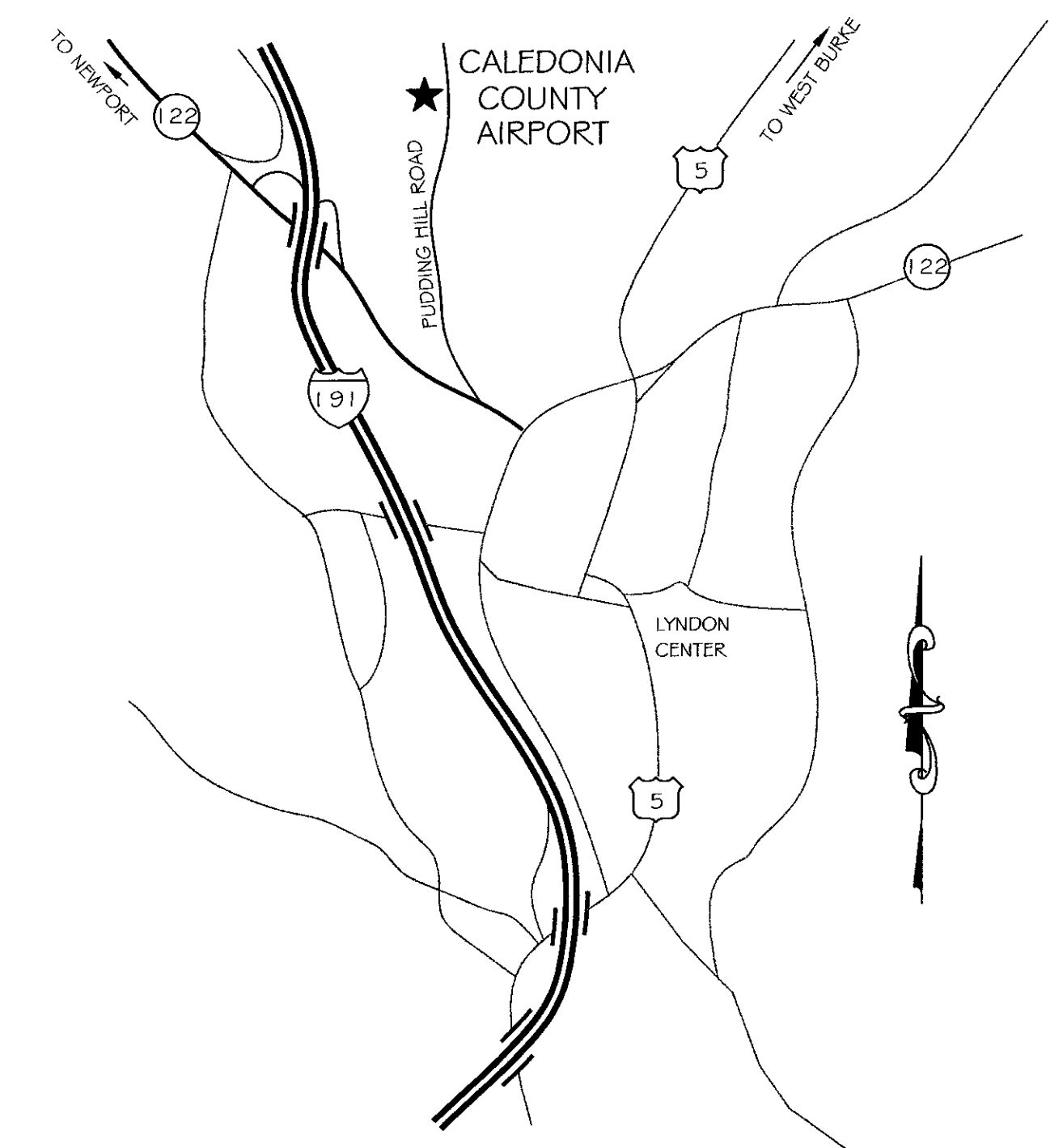
James H. Douglas
Governor

JANUARY, 2005

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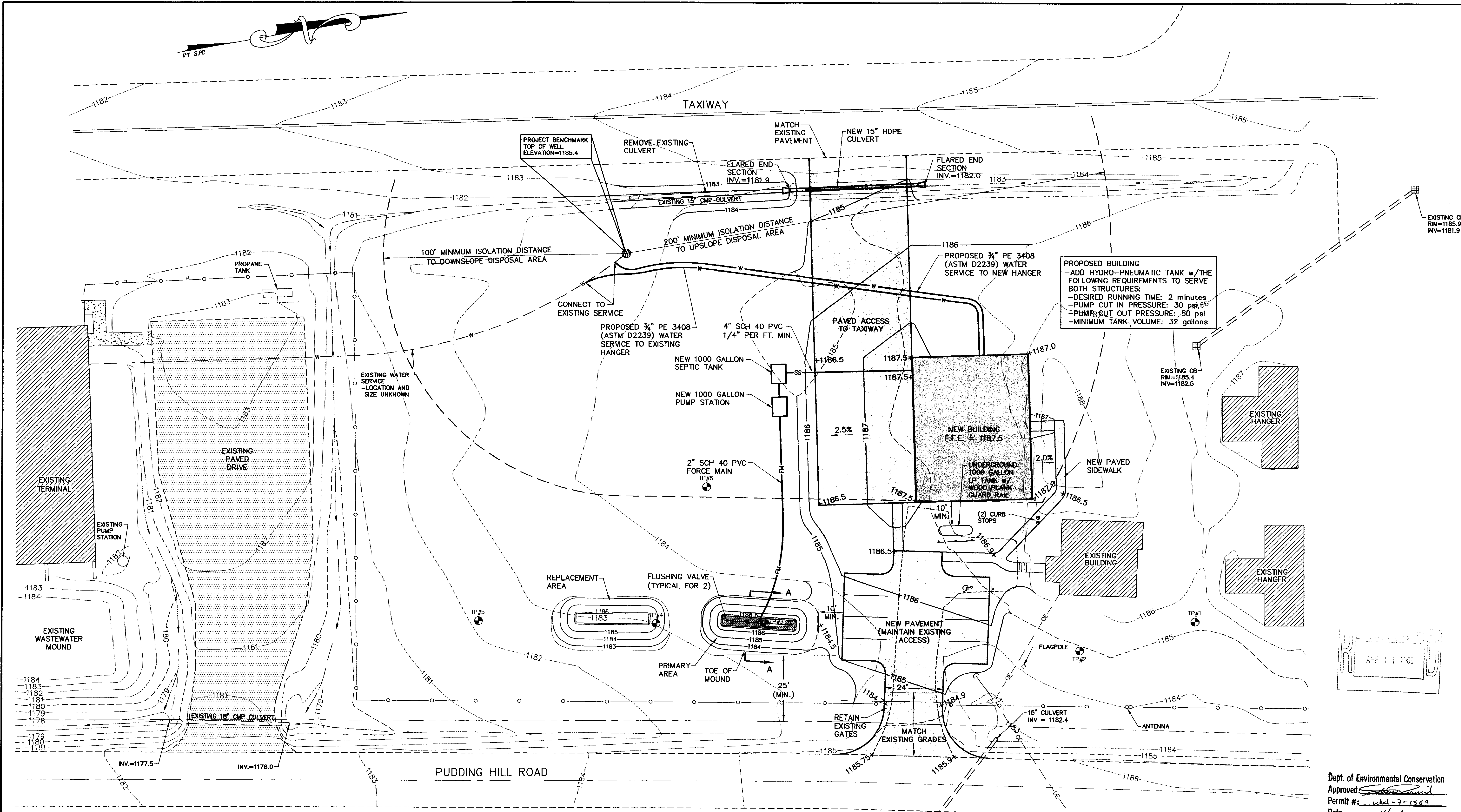
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AGENCY OF TRANSPORTATION
NATIONAL LIFE BUILDING
MONTPELIER, VERMONT 05633-5001
DAWN TERRILL, SECRETARY



PROJECT LOCATION

SET # _____
DO NOT COPY



LEGEND

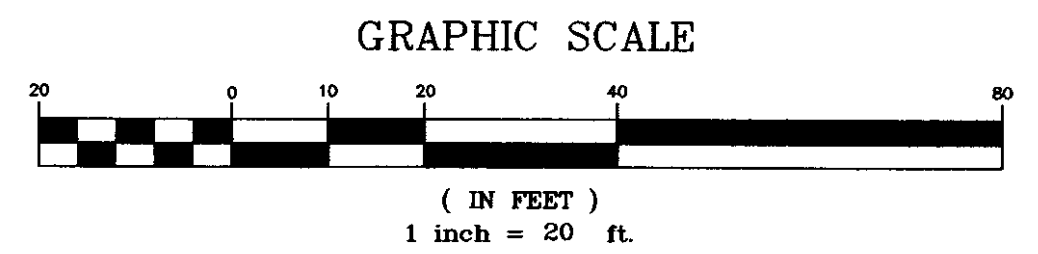
- 1186 --- EXISTING CONTOUR
- SS --- GRAVITY SEWER LINE
- FM --- FORCE MAIN
- W --- WATER LINE
- OE --- OVERHEAD ELECTRIC
- ST --- STORM DRAINAGE LINE
- ⊙ --- SEWER MANHOLE
- ⊙ --- POWER POLE
- ⊙ --- CATCH BASIN
- ⊙ --- WELL
- ⊙ --- SIGN
- FENCE
- DRAINAGE SWALE

NOTES:

- Underground utilities shown hereon are based on utility evidence visible at ground surface and are subject to field verification by excavation. Utilities shown do not purport to constitute or represent all utilities located upon or adjacent to the surveyed premises. All discrepancies shall be reported to the Engineer. The Contractor shall contact Dig Safe (800-225-4977) prior to any construction.
- All existing utilities not incorporated into the final design shall be removed or abandoned as indicated on the plans or directed by the Engineer.
- The Contractor shall maintain as-built plans (with ties) for all underground utilities. Those plans shall be submitted to the Owner at the completion of the project.
- The Contractor shall repair/restore all disturbed areas (on or off the site) as a direct or indirect result of the construction.
- All grassed areas shall be maintained until full vegetation is established.
- Maintain all trees outside of construction limits.
- The Contractor shall be responsible for all work necessary for complete and operable facilities and utilities.
- The Contractor shall submit shop drawings for all items and materials incorporated into the site work. Work shall not begin on any item until shop drawing approval is granted.
- In addition to the requirements set in these plans and specifications, the Contractor shall complete the work in accordance with all permit conditions and any local Public Works Standards.
- The tolerance for finish grades for all pavement, walkways and lawn areas shall be 0.1 feet.
- Any dewatering necessary for the completion of the sitework shall be considered as part of the contract and shall be the Contractor's responsibility.
- Existing pavement and tree stumps to be removed shall be disposed of at an approved off-site location. All pavement cuts shall be made with a pavement saw.
- If there are any conflicts or inconsistencies with the plans or specifications, the Contractor shall contact the Engineer for verification before work continues on the item in question.

TEST PIT DATA
Caledonia Airport
Lyndon, VT
February 25, 2004

- Test Pit #1
- 0 - 4" Brown fine sandy loam, friable
 - 4 - 16" Brown fine sandy loam, friable
 - 16 - 26" Yellowish brown loamy sand
 - 26 - 48" Sandy loam, very firm, mottled @ 26"
- Test Pit #2
- 0 - 10" Dark brown fine sandy loam, very firm
 - 10 - 14" Yellowish brown fine sandy loam, very friable
 - 14 - 19" Silt loam, firm
 - 19 - 26" Dark brown silt loam, firm
 - 26 - 4" Yellowish brown, loamy sand, friable, mottled @ 33"
- Test Pit #3
- 0 - 6" Dark brown fine sandy loam, friable
 - 6 - 12" Brown fine sandy loam, friable
 - 12 - 31" Yellowish brown fine sandy loam, friable
 - 31 - 58" Greyish brown loamy sand, mottled
- Test Pit #4
- 0 - 10" Dark brown fine sandy loam, very friable
 - 10 - 28" Light brown fine sandy loam
 - 28 - 54" Greyish brown fine sandy loam, mottled @ 33"
- Test Pit #5
- 0 - 12" Dark brown fine sandy loam, very friable
 - 12 - 24" Light brown fine sandy loam
 - 24 - 50" Greyish brown fine sandy loam, mottled
- Test Pit #6
- 0 - 5" Reddish brown fine sandy loam
 - 5 - 24" Yellowish brown sandy loam, firm
 - 24 - 32" Dark brown fine sandy loam, firm
 - 32 - 60" Yellowish brown sandy loam, firm



NOTES:

- THIS WASTEWATER SYSTEM IS DESIGNED BASED UPON THE STATE OF VERMONT "ENVIRONMENTAL PROTECTION RULES, WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES", AUGUST 16, 2002 RULES.
- ELEVATIONS ARE BASED UPON NATIONAL GEODETIC SURVEY MARK "LYNPOT", ELEVATION 1182.67' (NAVD 88) EXPRESSED IN U.S. SURVEY FEET.
- THIS PLAN IS NOT A BOUNDARY SURVEY AND IS NOT INTENDED TO BE USED AS ONE.

GPS COORDINATES

	LATITUDE	LONGITUDE
CENTER OF WASTEWATER SYSTEM	N44°34'22.4"	W72°00'55.7"
CENTER OF DRILLED WELL	N44°34'21.8"	W72°00'58.5"

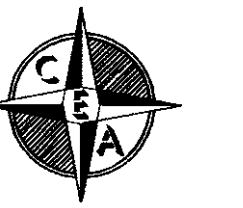
(WGS 84 CRITERIA, ±50' ACCURACY)

I HEREBY CERTIFY THAT THE DESIGN-RELATED INFORMATION SUBMITTED WITH THIS APPLICATION IS TRUE AND CORRECT, AND THAT, IN THE EXERCISE OF MY REASONABLE PROFESSIONAL JUDGMENT, THE DESIGN INCLUDED IN THIS APPLICATION FOR A PERMIT COMPLIES WITH THE VERMONT WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES AND THE VERMONT WATER SUPPLY RULES.

DESIGNER SIGNATURE

DATE 4/8/05

SITE ENGINEER:



CIVIL ENGINEERING ASSOCIATES, INC.
P.O. BOX 485 SHELBOURN, VT 05482
802-985-2323 FAX: 802-985-2271 web: www.cca-vt.com

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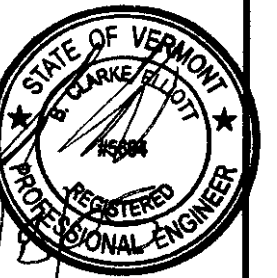
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APPROVED

BCE



OWNER:



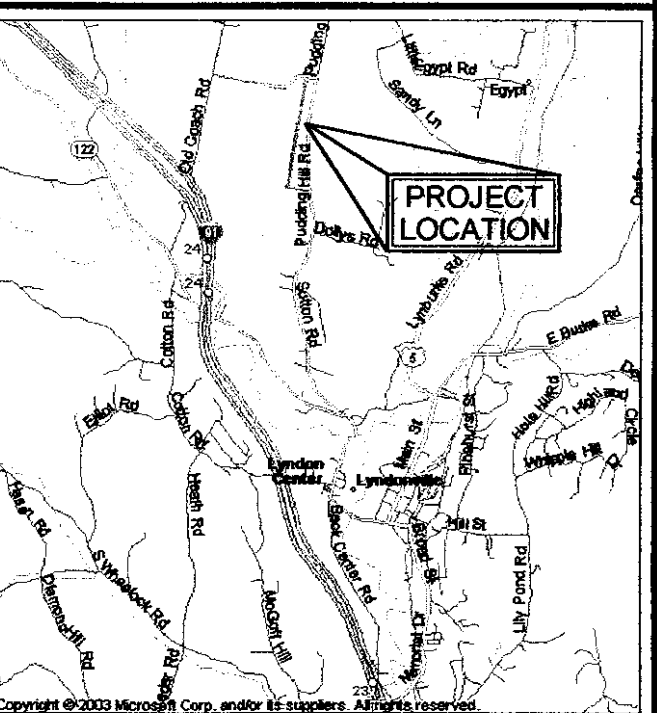
STATE OF VERMONT

VERMONT AGENCY
OF
TRANSPORTATION
MONTPELIER, VERMONT

PROJECT:

**CALEDONIA
COUNTY STATE
AIRPORT**

PUDDING HILL ROAD
LYNDON, VERMONT



LOCATION MAP

1" = 1.2 miles ±

DATE	CHECKED	REVISION
4/6/05	BCE	ADDED UNDERGROUND LP TANK/ MINOR TEXT REVISION

**PROPOSED
CONDITIONS
PLAN**

DATE
JAN., 2005

SCALE
1" = 20'

PROJ. NO.
03146.03

DRAWING NUMBER

C1.0



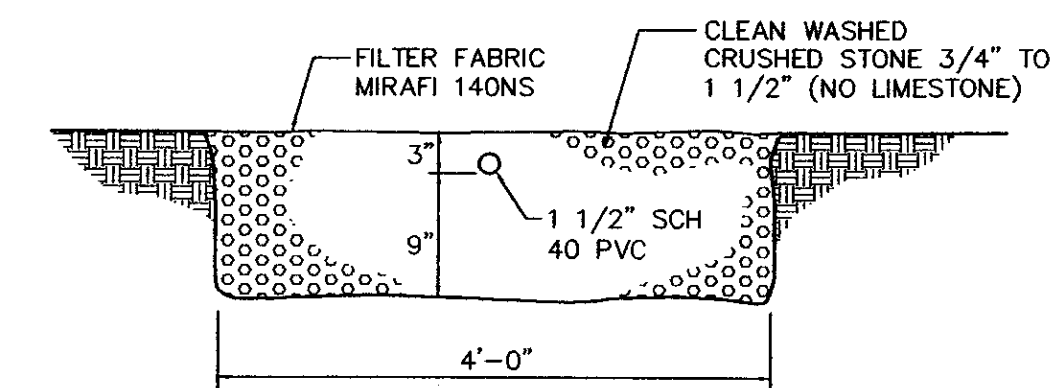
-
- The diagram illustrates a cross-section of a trench repair. The trench is 18 inches wide at the top and 12 inches wide at the bottom (12" MIN). The trench is filled with 'SELECT SAND FILL SHALL MEET ONE OF THE FOLLOWING SIEVE ANALYSES:'. The trench is lined with 'FILTER FABRIC MIRAFIL 140NS (OR APPROVED EQUAL)'. The trench is backfilled with 'NATIVE MATERIAL 1'-0" THICK ON INCLINE 4" MIN. TOPSOIL'. The trench is covered with a 'TOE OF SLOPE'. The 'EXISTING GRADE' is shown as a dashed line. The 'PLOWED SURFACE' is shown as a solid line. The diagram includes elevation markers: 1186, 1184, 1182, and 1180. Dimensions include 1', 3', 18", and 12" MIN.
- Diagram illustrating a cross-section of a trench repair. The trench is filled with sand fill meeting specific sieve analyses. The trench is lined with filter fabric (MIRAFIL 140NS or approved equal). The trench is backfilled with native material (1'-0" thick on incline, 4" min. topsoil). The trench is covered with a toe of slope. The existing grade is shown. The plowed surface is shown.
- SIEVE # % PASSING**
- | | |
|-----|--------|
| 10 | 85-100 |
| 40 | 25-75 |
| 60 | 0-30 |
| 100 | 0-10 |
| 200 | 0-5 |
- SIEVE # % PASSING**
- | | |
|-----|--------|
| 8 | 80-100 |
| 16 | 50-85 |
| 30 | 25-60 |
| 50 | 10-30 |
| 100 | 2-10 |
- SIEVE # % PASSING**
- | | |
|-----|--------|
| 10 | 85-100 |
| 40 | 30-50 |
| 200 | 0-10 |

SECTION A-A
NTS



-
- 30'
- 4'
- TRENCH

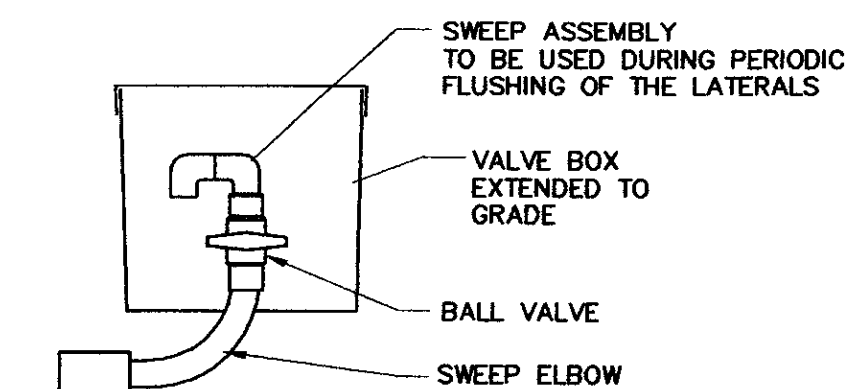
TYPICAL TRENCH PLAN
N.T.S.



TYPICAL TRENCH SECTION
N.T.S.

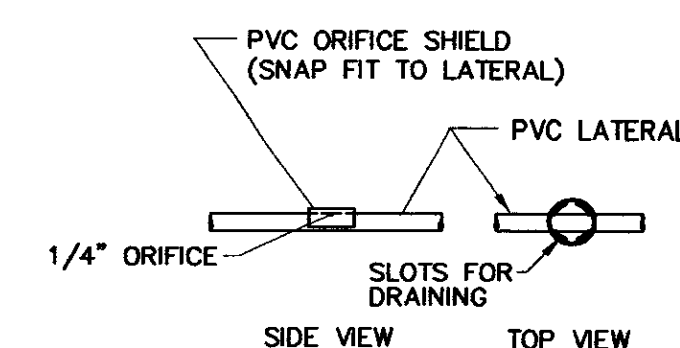
-
- 2" RIGID INSULATION OVER MANIFOLD (W=2')
- 1 1/2" Ø SCH 40 PVC
- FLUSHING VALVE & ENCLOSURE (SEE DETAIL TYPICAL FOR TWO)
- LAST ORIFICE TO BE FACING DOWN (1'-10" FROM END OF TRENCH)
- 3'-9"
- 26'-3" (BETWEEN ORIFICE HOLES)
- FROM PUMP STA. 2" SCH 40 PVC
- SINGLE ROW 5/16" Ø ORIFICE HOLES FACING UP
 -3'-9" O.C.
 -8 ORIFICES
 -FIRST & LAST ORIFICE TO BE FACING DOWN
 -ORIFICE SHIELDS SHALL BE USED @ EACH ORIFICE
- 1185.25

TRENCH PIPING DETAIL
N.T.S.



FLUSHING VALVE DETAIL

Dept. of Environmental Conservation
Approved: [Signature]
Permit #: 6461-7-1569
Date: 4/29/05



ORIFICE SHIELD DETAIL

SITE ENGINEER:



CIVIL ENGINEERING ASSOCIATES, INC.
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802-985-2323 FAX: 802-985-2271 web: www.cea-vt.com

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BCE

APPROVED

OWNER:

STATE OF
VERMONT

VERMONT AGENCY
OF
TRANSPORTATION

MONTPELIER, VERMONT

PROJECT:

**CALEDONIA
COUNTY STATE
AIRPORT**

PUDDING HILL ROAD
LYNDON, VERMONT

[illegible]

WASTEWATER DETAILS

DATE
JAN 2005

SCALE
AS SHOWN

PROJ. NO.
03146.03

DRAWING NUMBER

C2.0

DISPOSAL FIELDS & FORCE MAINS

PART 1 – GENERAL

1.01 Summary

A. Section includes:

1. Wastewater Disposal Field
2. Force Main Materials

1.02 References

- A. All work shall be done in accordance with the State of Vermont Environmental Protection Rules effective August 16, 2002.

PART 2 – PRODUCTS

2.01 General

- A. Disposal Fields: Schedule 40 PVC pipe meeting the requirements of the latest revision of ASTM Specification D-1785. Fittings used in the disposal fields shall be compatible with distribution lines material.

- B. Force Mains: PVC pipe shall conform in all respects to the latest revisions of ASTM Specifications D-2241. All pipe fittings shall be SDR 26 (or SCH 40) clearly marked as follows:

- Manufacturer's Name and Trademark
- Nominal Pipe Size (as shown on plans)
- Material Designation

Joints shall be push-on type using elastomeric gaskets factory installed conforming to ASTM Specification D-3212.

- C. Crushed stone shall be clean, durable and no smaller than 3/4" or larger than 1 1/2 inches in diameter.

PART 3 – EXECUTION

MOUND CONSTRUCTION

- A. Aboveground vegetation shall be closely cut and removed from the ground surface throughout the area to be utilized for the placement of the fill material. Prior to plowing, the dosing pump discharge line from the pump chamber or dosing chamber to the point of connection with the distribution piping header shall be installed. The area shall then be plowed to a depth of seven to eight inches, parallel to the land contour with the plow throwing the soil upslope to provide a proper interface between the fill and natural soils. Tree stumps should be cut flush with the surface of the ground and roots should not be pulled. Once plowing of the mound area is completed, the area shall be fenced to prevent vehicles and equipment from entering the plowed area.

- B. To prevent compaction, construction equipment shall not be moved across the plowed surface or the effluent disposal area. However, after placement of a minimum of six inches of sand fill over the plowed area, construction equipment may be driven over the protected surface to expedite construction. Construction equipment shall be kept off the area down gradient of the disposal field. Construction and/or plowing shall not be initiated when the soil moisture content is high.

- C. Construction should be initiated immediately after preparation of the soil interface by placing all of the sand fill needed for the mound to a minimum depth of 21 inches. This depth will permit excavation of trenches to accommodate the crushed stone (12 inches) necessary for the distribution piping.

- D. The pressure distribution pipe should be laid level on top of the stone and flushing valves installed at the ends of the pipe. Upon completion of the distribution piping, the qualified consultant shall test the system with clean water. The test shall show that a minimum pressure of three feet of head is present at the ends of the pipe and that the difference in discharge rate between the two orifices with the greatest difference in discharge rates is not greater than 15 percent. After connecting the distribution pipe to the force main, the distribution pipe shall be covered with at least two inches of clean stone aggregate. The stone aggregate shall be covered completely with filter fabric.

- E. After installation of the distribution system, crown the entire mound with cover of soil less permeable than the mound fill, covering with 12 inches on the side slopes and a minimum of 18 inches over the center of the mound. Native soil from the site is normally suitable for cover material, though the top two to four inches of this cover should be topsoil. The entire mound shall be seeded, sodded or otherwise provided with vegetative cover to assure stability of the installation.

- F. The area surrounding the disposal field shall be graded to provide diversion of surface runoff waters if required.

3.02 Testing Notes

- A. The wastewater system shall be inspected during critical stages of construction by a qualified consultant. This shall include at a minimum the staking of the disposal field, the trenches after the initial 12 inches of stone and distribution piping is placed, the installation and pressure test of distribution piping, and a final inspection of the entire system. The Contractor will be responsible for contacting the Engineer to set up the inspection schedule.

- B. Testing of pressure distribution shall be done in the Engineer's presence. Pressure shall be measured to insure a minimum of 1 psi. (See section D above).

- C. The distribution line shall then be carefully placed on the bedding with no slope, orifice shields snapped into place, and covered with at least 2" of crushed stone.

- D. All work shall be done in accordance with the State of Vermont Environmental Protection Rules.

- E. Prior to use of the system, the qualified consultant shall submit a written report to the Town of Lyndon stating that the system has been installed according to the approved plans and permit. The report shall specifically address the inspection of the site preparations and include numerical results of the orifice discharge rate comparison.

MINIMUM ISOLATION DISTANCES

(Contact Engineer for any Clarifications or Conflicts)

	Horizontal Distance (Ft.)	
	Toe of Mound	Septic Tank
Shallow Well or Spring, Up Slope of Disposal Field	150*(Min.)	75
Shallow Well or Spring, Down Slope of Disposal Field	500*(Min.)	---
Drilled Well Serving 1 Home – Up Slope of Disposal Field	100*(Min.)	50
Drilled Well Serving 1 Home – Down Slope of Disposal Field	200*(Min.)	---
Municipal Water Main	50	50
Service Water Lines	25	25
Roadways, Driveways, Buildings	10 (25 Downslope)	5
Stream, Watercourse, Lake or Impoundment	50	25
Drainage Swales, Roadway Ditches	25	---
Top of embankment or slope > 30%	25	10
Trees	10	10
Foundation, Footing Drains	35 (75 Downslope)	10
Replacement Area – Sides	10	---
Replacement Area – Uphill or Downhill	25	---
Property Line – 10' from toe (or 25' from edge of disposal system, whichever is greater.)	10 (25 Downslope)	---

*Isolation distances to well locations may vary due to site conditions – contact Engineer for verification with the Vermont Water Supply Rule Regulations.

VERMONT WATER SUPPLY RULE – CHAPTER 21

TABLE A – REQUIRED MINIMUM SEPARATION DISTANCES

Single Family Drilled Well

Potential Source of Contamination and other Siting Limitations	Separation Distance
Roadway, Parking Lot (outer edge of shoulder)	25'
Driveway (less than 3 residences)	15'
Sewage System Disposal Fields	See Well Shield
Subsurface Wastewater Piping and Related Tanks	50'
Property Line	10'b
Limit of Herbicide Application on Utility R.O.W.	100'c
Surface Water	10'd
Flood ways	e.
Buildings	10'
Concentrated Livestock Holding Area & Manure Storage Systems	200'
Hazardous or Solid Waste Disposal Site	f.
Non-sewage Wastewater Disposal Fields	f.

- b. Increased to 50' when adjacent to agricultural cropland.

- c. Applies to rights-of-way (ROW) where herbicides have been applied in the past 12 months or may be applied in the future. This distance may be increased to 200' depending on the active ingredient in the herbicide according to Vermont Regulations for Control of Pesticides.

- d. For Public water sources, see Appendix A, part 3, Subpart 3.3.8.

- e. Water sources shall not be located in a flood way.

- f. If a water source is potentially downgradient of a source of contamination, then the Agency shall apply the criteria in 11.4.2.2.

SITE ENGINEER:



CIVIL ENGINEERING ASSOCIATES, INC.

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802-985-2323 FAX: 802-985-2271 web: www.coe-vt.com

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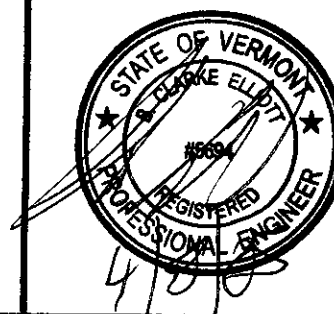
PJM

CHECKED

BCE

APPROVED

BCE



OWNER:



STATE OF
VERMONT

VERMONT AGENCY
OF
TRANSPORTATION

MONTPELIER, VERMONT

PROJECT:

CALEDONIA
COUNTY STATE
AIRPORT

PUDDING HILL ROAD
LYNDON, VERMONT

DATE	CHECKED	REVISION
4/6/05	BCE	MINOR TEXT REVISION

Dept. of Environmental Conservation
Approved: [Signature]
Permit #: VER-7-1589
Date: 4/29/05

WASTEWATER
NOTES

DATE
JAN., 2005

SCALE
AS SHOWN

PROJ. NO.
03146.03

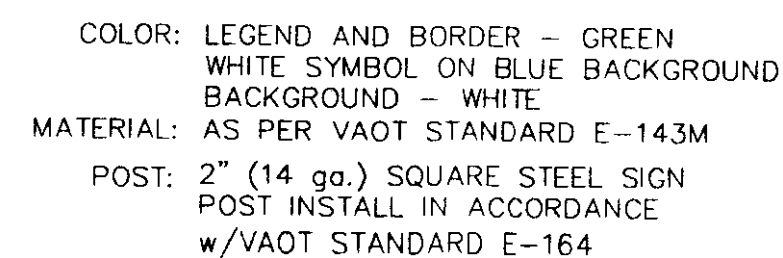
DRAWING NUMBER

C2.1



-
- A cross-sectional diagram of a foundation. A vertical wall is shown with a base. To the left of the wall, the ground slopes away from the building, indicated by a dashed line and the text "GROUND LINE (SLOPE AWAY FROM BUILDING)". The area between the wall and the ground line is filled with a stippled pattern and labeled "GRANULAR BACKFILL (TYP.)". To the right of the wall, there is a horizontal slab labeled "SLAB". Below the slab, the area is filled with a cross-hatched pattern and labeled "STRUCTURAL FILL OR GRANULAR BACKFILL".

**TYPICAL FOUNDATION
BACKFILL SECTION**



**HANDICAPPED PARKING
SIGN DETAIL**

LOCATION	MATERIAL	% COMPACTION MODIFIED PROCTOR ASTM D-1557
Under Footings	Undisturbed Native Material or Structural Fill	-- 98%
Interior Slab-on-Grade	Structural Fill	95%
Interior, Adjacent to Foundation Walls	Structural Fill; or Granular Backfill	95% 95%
Exterior, Adjacent to Foundation Walls	Structural Fill; or Granular Backfill	90% 90%

C3.0

EROSION CONTROL REQUIREMENTS

PART 1 - GENERAL

1.01 SUMMARY

A. The work under this section includes but is not limited to providing all labor, equipment and materials for the installation of all required site related erosion control measures. If not otherwise directed on the plans, erosion control shall be in strict conformity with the latest revision of the "Vermont Handbook for Soil Erosion and Sediment Control on Construction Sites".

1.02 GENERAL NOTES

- A. The discharge of sediment laden water from the project site is prohibited. All discharged water from dewatering operations shall discharge into a temporary sedimentation basin.
- B. Contractor shall install all erosion control measures as depicted on plans and details or as recommended by the Vermont Agency of Natural Resources, or Soil Conservation Service, prior to any construction. Contractor shall also be responsible for inspecting and maintaining all erosion control measures until project is completed.
- C. Contractor shall also limit the soil disturbance and seeding application dates to between May 1st and October 15th. If soil disturbance occurs later than October 15th and prior to May 1st, winter erosion control measures will be necessary. Contractor shall consult with the Engineer for additional site specific winter erosion control measures.
- D. All stockpile material (topsoil, borrow, etc.) will have a hay bale dike or silt fence constructed around the perimeter. Seed and mulch stockpiled material as soon as possible to prevent soil erosion and sedimentation off site. Locate stockpiles on the uphill side of the disturbed areas, if possible. During windy conditions, stockpiled material shall be covered or watered appropriately to prevent wind erosion.
- E. Slopes greater than 1:3 shall have erosion control netting installed to stabilize the slope and reduce the erosion potential. Install netting over mulched slopes so that all parts are in contact with the soil and mulch. Pin netting with wire staples 3' o.c. to ensure full bonding with soil surface.
- F. Install stone check dams in grass-lined swales 50 feet on center to prevent silt from washing into the drainage system during construction. Check dams shall be removed when vegetation is established.
- G. Control dust through the application of calcium chloride or water. An average application of one pound of calcium chloride per square yard of exposed area should be considered for each treatment. The exact number of applications and amount of dust controller shall be based upon field and weather conditions. It shall be spread in such manner and by such devices that uniform distribution is attained over the entire area on which it is ordered placed.

PART 2 - PRODUCTS

2.01 EROSION CONTROL NETTING

- A. Jute netting shall consist of undyed and unbleached yarn woven into a uniform open plain weave mesh.

2.02 EROSION CONTROL MATTING

- A. Where required on the plans or where directed by the Engineer, erosion control blankets (matting) shall be North American Green C125 for swales, and SC150 for slope stabilization, or approved equal.

2.03 FILTER FABRIC

- A. When filter fabric is required, it shall conform to the requirements of Mirafi 140NS or approved equivalent.

2.04 CALCIUM CHLORIDE

- A. Calcium chloride shall conform to the requirements of AASHTO M 144. Either regular flake calcium chloride, Type 1 or concentrated flake, pellet or other granular calcium chloride, Type 2, may be used.

2.05 WATER

- A. All water used shall be clean and free of harmful amounts of oil, salt, acids, alkalis, sugar, organic matter and other substances injurious to the finished product, plant life or the establishment of vegetation.

PART 3 - EXECUTION

3.01 STONE CHECK DAM AND CATCH BASIN INLET PROTECTION

- A. Stone check dams to be constructed as outlined in the "STONE CHECK DAM STRUCTURE" detail and spaced as indicated or as instructed by the Engineer. Once vegetation is established and the check dams are no longer needed for erosion control, they shall be removed.
- B. Catch Basin Inlet protection to be constructed as outlined in the "CATCH BASIN INLET PROTECTION (WITH METAL STAKES)" detail and placed as indicated or as instructed by the Engineer. Once vegetation is established and the check dams are no longer needed for erosion control, they shall be removed.

3.02 SILT FENCES

- A. The silt fences shall be constructed in accordance with the construction detail. The fence shall generally be placed 10 feet from the toe of the slope or as shown on the plans. The ends of the fence shall be placed uphill to form a horseshoe shape to trap all runoff.
- B. The silt fences shall be inspected periodically for damage or build-up of sediments. All damaged fences shall be repaired or replaced. Sediment deposits shall be removed from the fence as they build up and be placed in an area where there is no danger of further erosion.

3.03 EROSION MATTING

- A. Erosion matting shall be placed on all grass-lined ditches with profile grades exceeding 5.0% and shall be placed and maintained in accordance with the Vermont Agency of Transportation Standard Specifications Sections 654 and 755.07.

3.04 RESTORATION

- A. As soon as construction is completed in a given area, it shall be topsoiled, seeded, fertilized and mulched as specified in the Permanent Seeding section.

3.05 GRASS-LINED DITCHES

- A. All ditches that are not stone-lined shall be topsoiled, seeded, fertilized and mulched. Any area which shows signs of erosion shall be reseeded immediately and maintained until permanent vegetation is established.

3.06 TEMPORARY DIVERSION DITCH

- A. Some diversion ditches will be temporary in nature with shallow slopes and therefore will not need to be stabilized with stone or seeding. These ditches will act as infiltrative areas and will have stone check dams to minimize the move of fine grained materials.

3.07 MAINTENANCE

- A. All erosion control measures shall be inspected weekly and repaired and/or replaced as needed.
- B. All erosion control measures shall be inspected after periods of heavy rain.
- C. The stabilized road entrance shall be top dressed with additional stone should the existing stone become clogged with sediment.
- D. Hay or straw mulch is subject to wind action. Mulch may require anchoring as the weather conditions warrant.

3.08 WINTER CONSTRUCTION

- A. If, due to the project schedule, construction during the winter months is necessary, the Contractor shall follow the winter construction procedures outlined in the "Vermont Handbook for Soil Erosion and Sediment Control on Construction Sites".
1. Minimize disturbance between October and May.
 2. All erosion control measures shall be in place prior to the ground freezing.
 3. Mulch shall be applied to all disturbed areas at a rate of 90 pounds per 1,000 square feet. The Contractor shall maintain all areas that are mulched until permanent vegetation can be established.

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes:
1. Furnishing all labor, materials and equipment to complete all seeding required to provide temporary protection against wind or water erosion.

1.02 GENERAL NOTES

- A. Adequate seed bed preparation, use of quality seed, and timely planting are required to achieve a good stand of vegetation to control erosion.

PART 2 - PRODUCTS

2.01 GENERAL

- A. At a minimum, all products shall meet the requirements of the Permanent Seeding Section.

PART 3 - EXECUTION

3.01 SEEDING CONDITIONS

- A. All essential grading and all temporary structures, such as diversions, dams, ditches, and drains needed to prevent gully and reduce siltation, should be completed prior to seeding.

3.02 SEED AND SEEDING

- A. Seed and seeding rates may be selected from the table below. The selection will be based on the time of year the seeding is to be made and the length of time the vegetation is to afford the protection. The seed should be spread uniformly over the area. After seeding, the soil should be firmed by rolling or packing. Where rolling or packing is not feasible, the seed should be covered lightly by raking, disking, or dragging.

- B. Plant Selection and Seeding Rates:

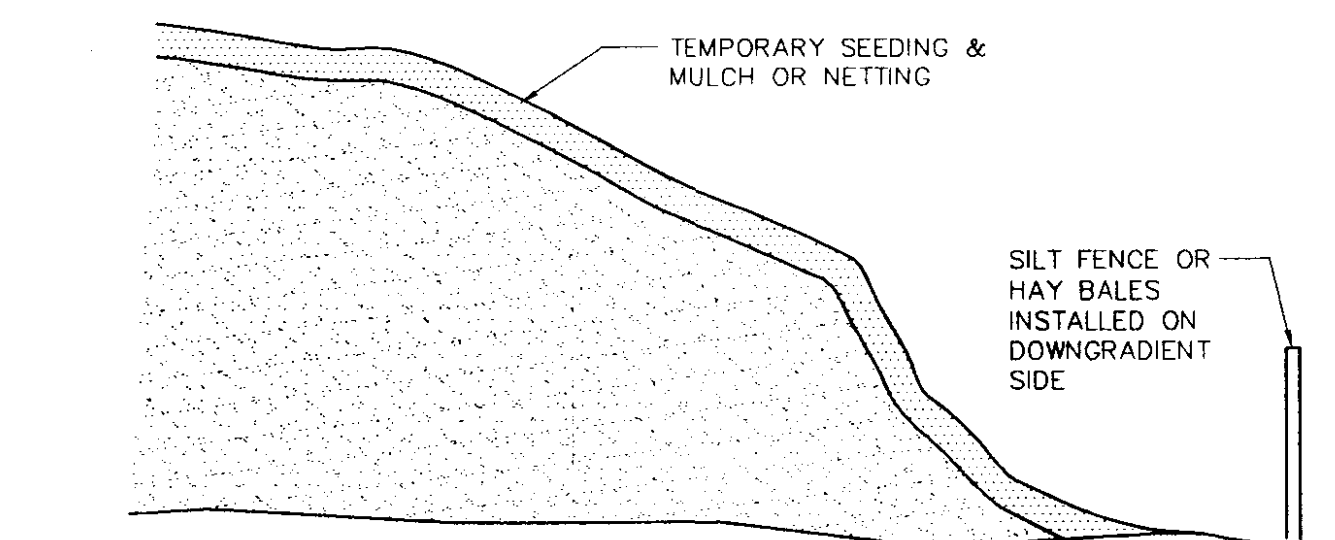
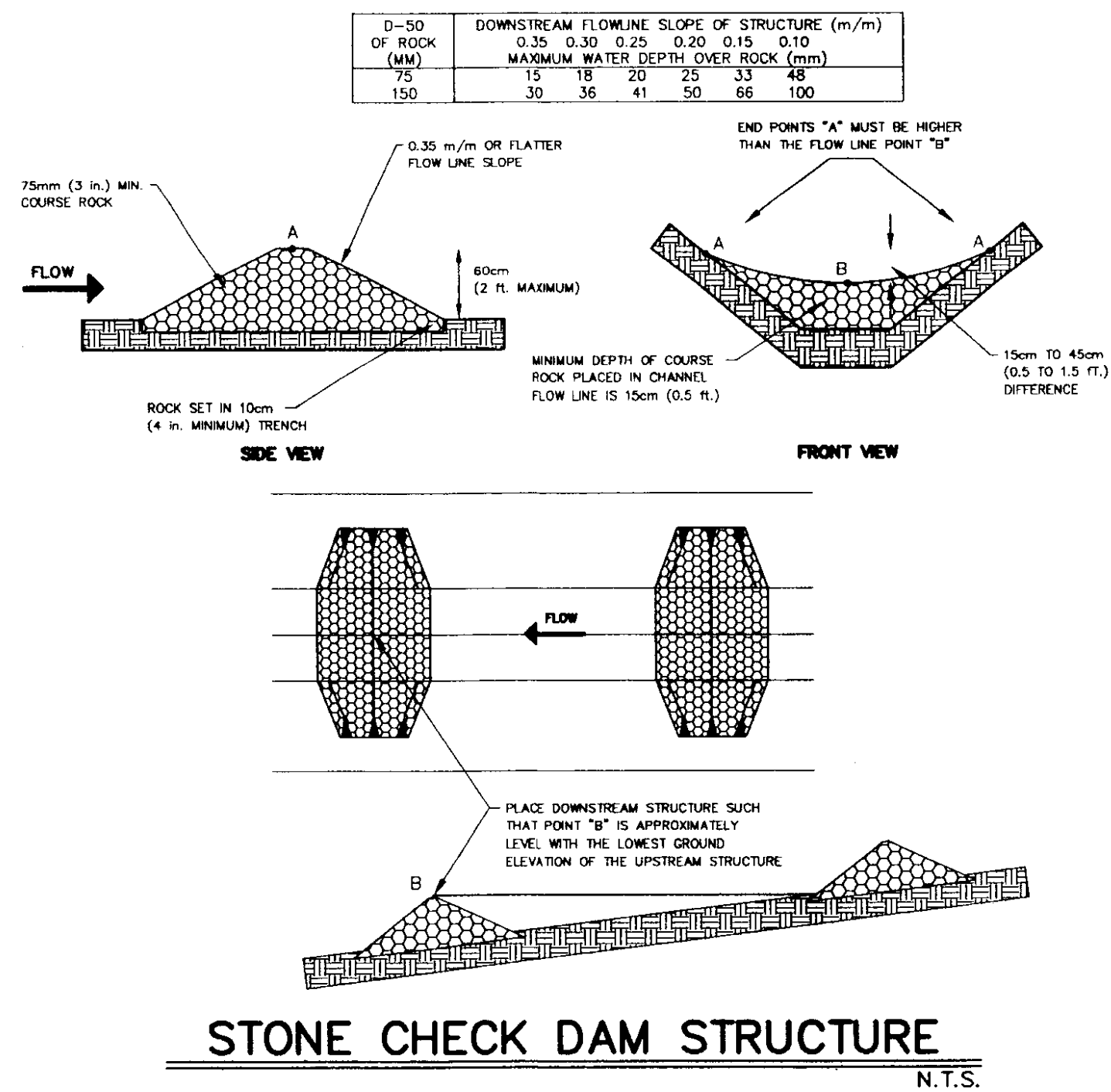
Species	Per Acre	Per 1000 Sq. Ft.	Remarks
Annual Ryegrass	40 lbs.	1 lb.	Grows quickly, but is of short duration. Use where appearances are important. Seed early spring and/or between August 15 and September 15. Cover the seed with no more than 0.25 inch of soil.
Perennial Ryegrass	30 lbs.	0.7 lbs.	Good cover which is longer lasting than annual ryegrass. Seed between April 1 and June 1 and/or between August 15 and September 15. Mulching will allow seeding throughout the growing season. Seed to a depth of approximately .5 inch.

3.04 MULCHING

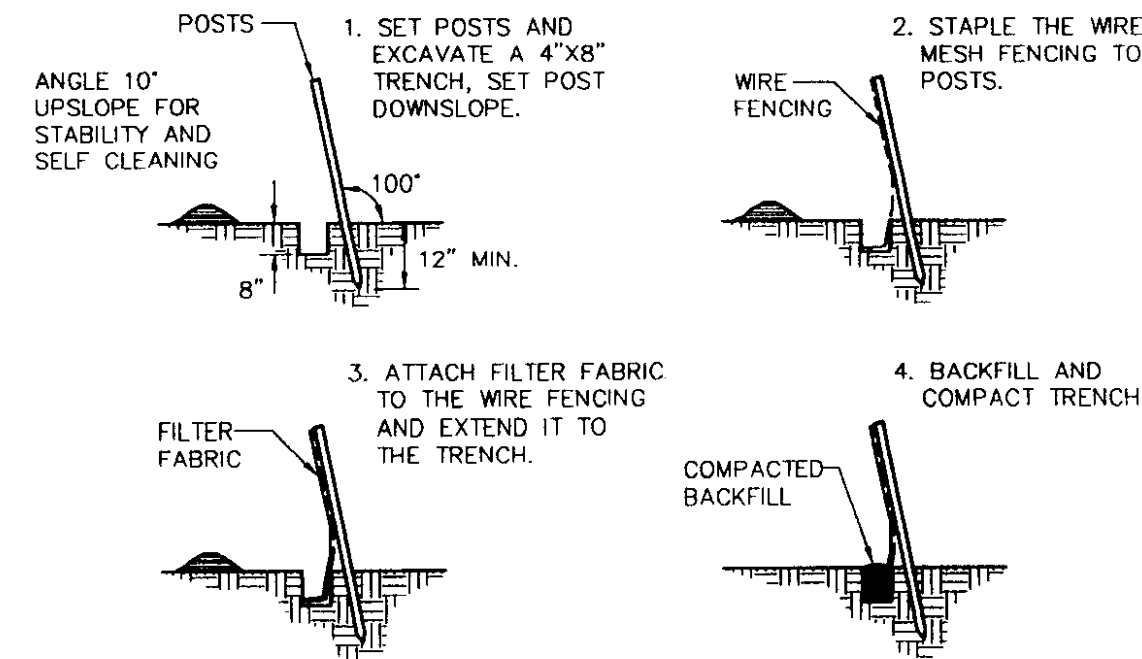
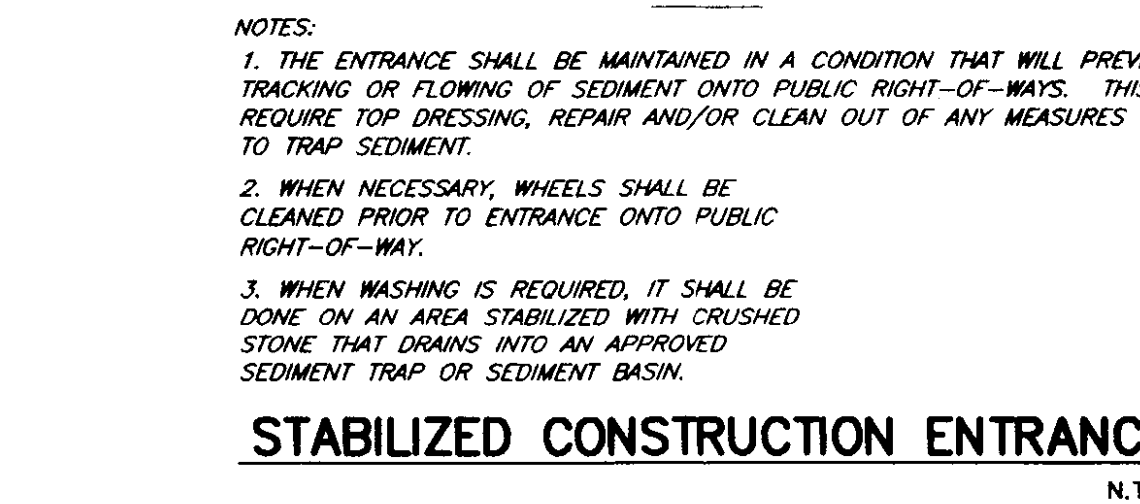
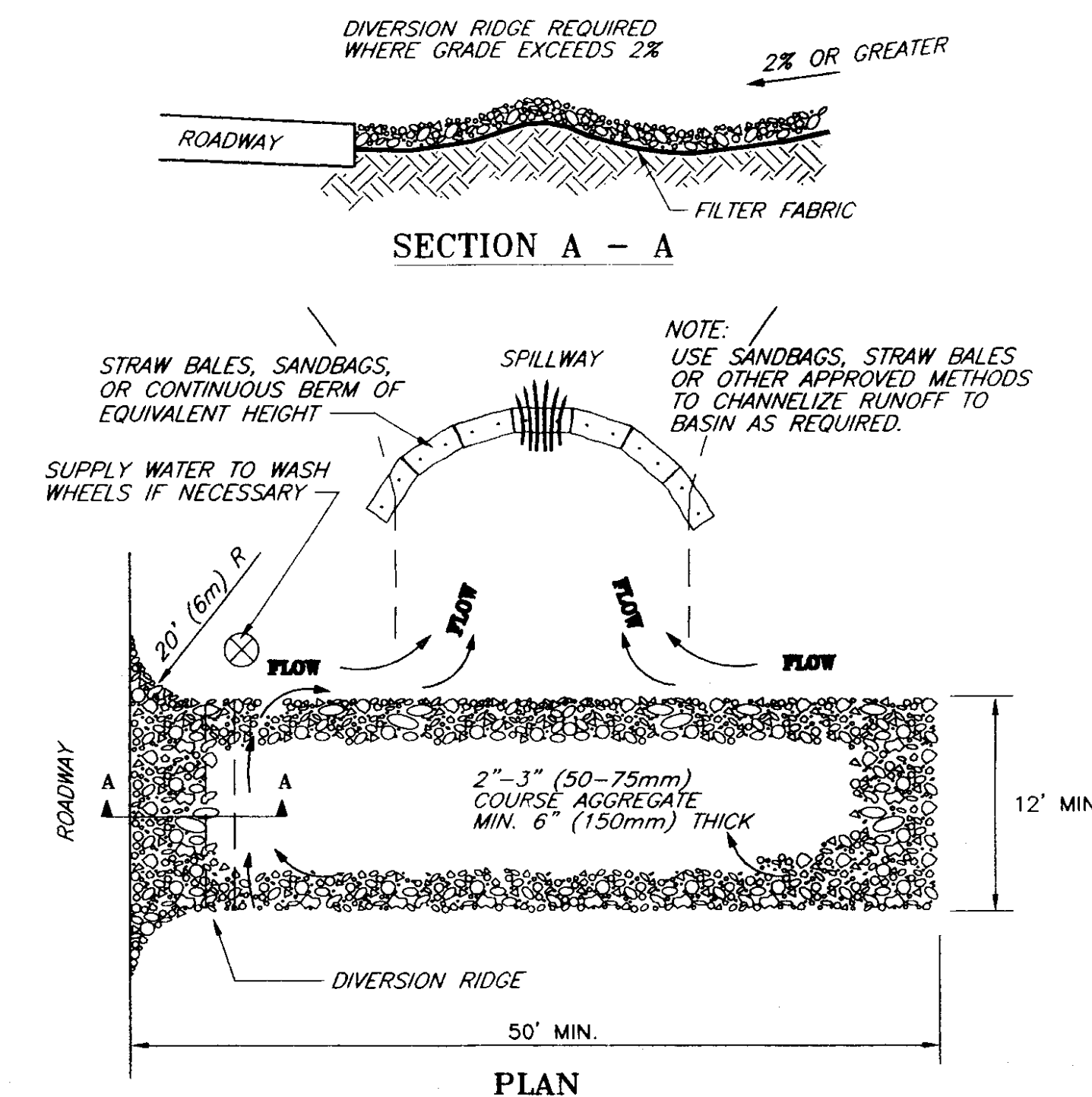
- A. Where it is impracticable to incorporate fertilizer and seed into moist soil, the seeded area should be mulched to facilitate germination.

3.05 MAINTENANCE

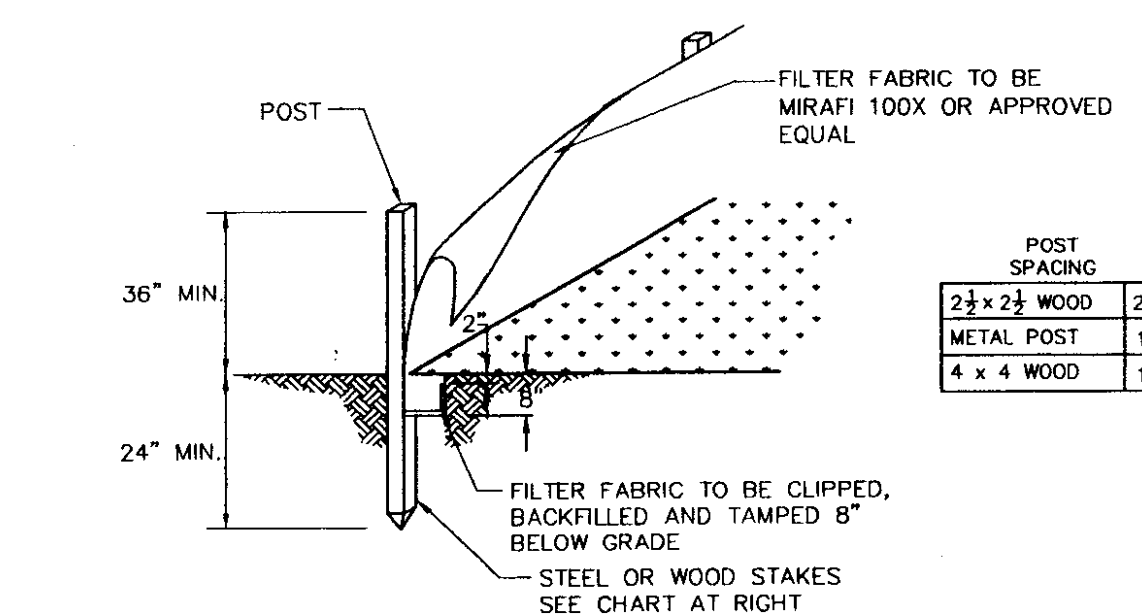
- A. If the seeding fails to grow, it may need to be re-established to provide adequate erosion control.
- B. If weeds become a problem, they may need to be controlled by mowing.



TEMPORARY STOCKPILE DETAIL N.T.S.

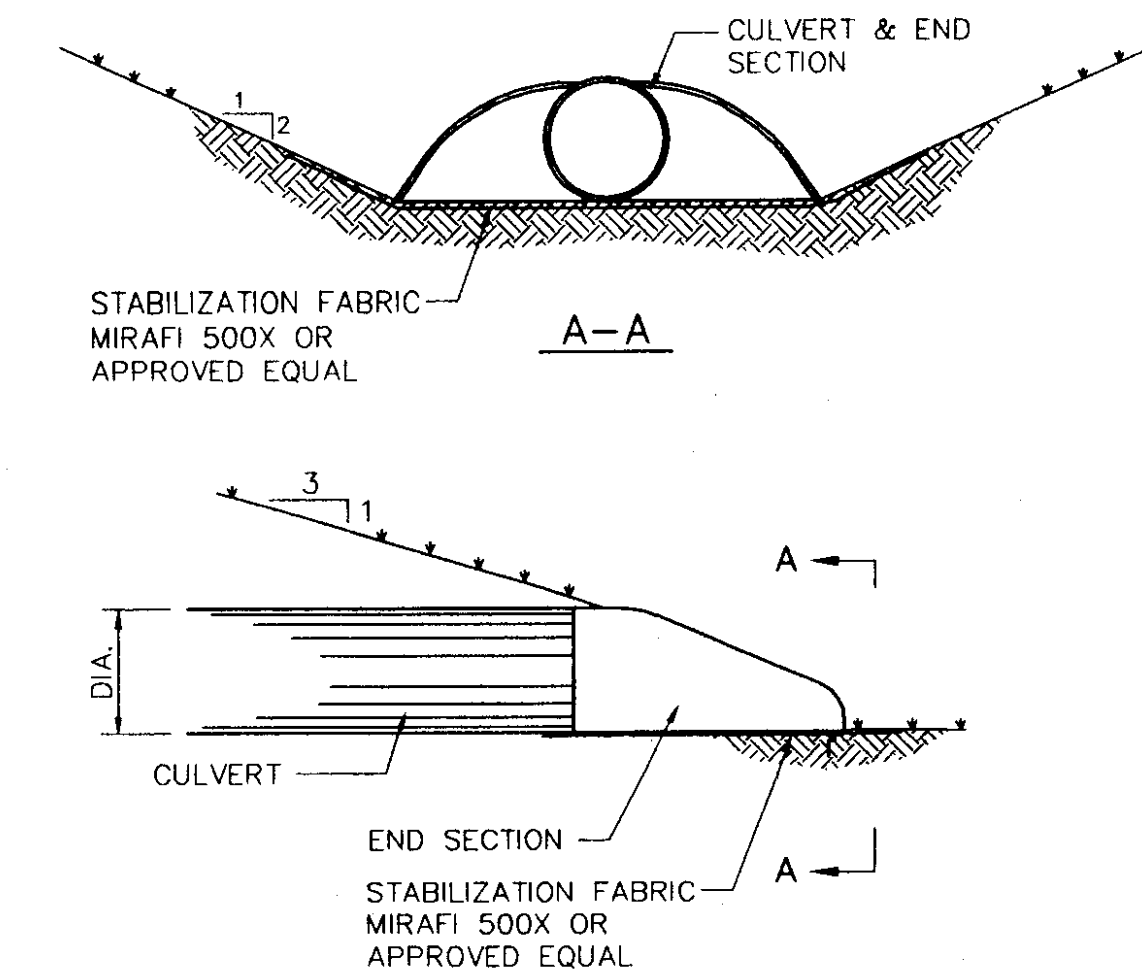


SILT FENCE CONSTRUCTION DETAIL N.T.S.

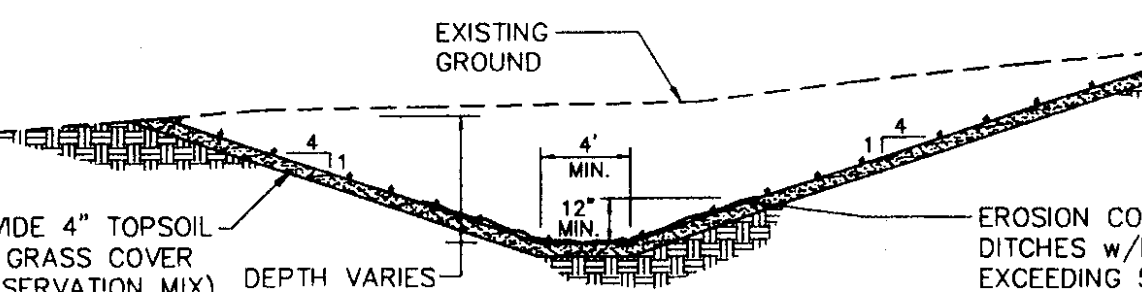


1. INSTALL MIRAFI ENVIROFENCE, OR APPROVED EQUAL OR AS DETAILED HEREIN.
2. INSTALL SILT FENCES AT TOES OF ALL UNPROTECTED SLOPES AND AS PARALLEL TO CONTOURS AS POSSIBLE. THIS INCLUDES ALL FILLED OR UNPROTECTED SLOPES CREATED DURING CONSTRUCTION, NOT NECESSARILY REFLECTED ON THE FINAL PLANS. CURVE THE ENDS OF THE FENCE UP INTO THE SLOPE. REMOVE SEDIMENT WHEN ACCUMULATED TO HALF THE HEIGHT OF THE FENCE. SILT FENCES ARE TO BE MAINTAINED UNTIL SLOPES ARE STABILIZED.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6", FOLDED AND STAPLED.

SILT FENCE DETAIL N.T.S.



END SECTION DETAIL N.T.S.



GRASS LINED DITCH N.T.S.

SITE ENGINEER:



CIVIL ENGINEERING ASSOCIATES, INC.
P.O. BOX 485 SHELburne, VT 05482
802-885-2323 FAX: 802-885-2271 web: www.cae-vt.com

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DRAWN

PJM

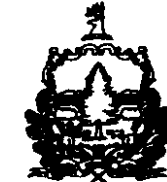
CHECKED

BCE

APPROVED

BCE

OWNER:



STATE OF VERMONT

VERMONT AGENCY OF TRANSPORTATION

MONTPELIER, VERMONT

PROJECT:

CALEDONIA COUNTY STATE AIRPORT

PUDDING HILL ROAD LYNDON, VERMONT

DATE	CHECKED	REVISION
4/6/05	BCE	MINOR TEXT REVISION

EROSION CONTROL NOTES and DETAILS

DATE

SEPT., 2004

SCALE

AS SHOWN

PROJ. NO.

03146.03

DRAWING NUMBER

C3.1

STRUCTURAL EARTHWORK

1. PRIOR TO PLACING STRUCTURAL FILL ALL ORGANIC MATERIAL, TOPSOIL, DEBRIS AND ANY OTHER DELETERIOUS MATERIAL SHALL BE REMOVED.
2. STRUCTURAL FILL SHALL BE AN APPROVED, WELL GRADED BANK RUN, SCREENED OR CRUSHED GRAVEL MEETING THE FOLLOWING REQUIREMENTS:

SIEVE DESIGNATION	% PASSING
2"	100
No. 4	40-70
No. 100	5-20
No. 200	2-8 (MAXIMUM 5% FOR FROST FREE MATERIAL)

3. THE MATERIAL SHALL BE PLACED IN MAXIMUM 8" LIFTS AND COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698, STANDARD PROCTOR.
4. THE OWNER MAY TAKE DENSITY TESTS ON THE COMPACTED FILL. IF THE MATERIAL TESTS LESS THAN 95%, CORRECTIVE ACTION AND ADDITIONAL TESTING WILL BE REQUIRED. THE ADDITIONAL TESTING AND CORRECTIVE ACTION WILL BE PAID FOR BY THE CONTRACTOR.
5. SAND SHALL BE MATERIAL FREE FROM SILT, LOAM, CLAY OR ORGANIC MATTER. IT SHALL BE OBTAINED FROM APPROVED SOURCES AND MEET THE REQUIREMENTS OF THE FOLLOWING TABLE:

SIEVE DESIGNATION	% PASSING
3/8"	100
No. 4	80-95
No. 10	50-90
No. 40	20-50
No. 100	5-20
No. 200	2-10

7. SAND SHALL BE PLACED IN 6-INCH LAYERS AND COMPACTED TO 95% ASTM D698, STANDARD PROCTOR.
8. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT, A SIEVE ANALYSIS AND A LABORATORY MOISTURE-DENSITY CURVE FOR THE PROPOSED STRUCTURAL FILL AND THE SAND. THE TESTS SHALL BE CONDUCTED, AT THE CONTRACTOR'S EXPENSE, BY A TESTING FIRM APPROVED BY THE ENGINEER. ADDITIONAL SAMPLES SHALL BE TESTED UNTIL A MATERIAL MEETING THE ABOVE REQUIREMENTS IS PROVIDED.

WOOD TRUSS NOTES

1. ALL WOOD TRUSSES SHALL COMPLY WITH THE FOLLOWING CODES AND REGULATIONS:
 - A. TIMBER CONSTRUCTION MANUAL - AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
 - B. NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENINGS - NATIONAL FOREST PRODUCTS ASSOCIATION
 - C. DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES - TRUSS PLATE INSTITUTE.
2. LUMBER FOR WOOD TRUSSES SHALL BE KILN DRIED MACHINE STRESS RATED LUMBER WITH A STRESS RATING ADEQUATE FOR THE TRUSS DESIGN.
3. ALL LUMBER SHALL BE STRAIGHT AND NEW, IN SOUND CONDITION, KILN DRIED WITH A MAXIMUM MOISTURE CONTENT OF 16%. ALL DIMENSION LUMBER SHALL BEAR THE GRADE AND MARK OF THE ASSOCIATION UNDER WHOSE RULES IT IS PRODUCED, AND A MARK OF MILL IDENTIFICATION.
4. GUSSET PLATES AT ALL JOINTS SHALL BE SIZED BY THE TRUSS MANUFACTURER FOR 125% OF THE AXIAL LOADS.
5. THE MINIMUM NOMINAL SIZE FOR WOOD MEMBERS OF TRUSSES SHALL BE 2x4.
6. FOR 2x6 CHORDS SPACE TOP CHORD PANEL POINTS AT 5 FEET TO 7 FEET ON CENTER AND BOTTOM CHORD LESS THAN 8 FEET ON CENTER.

SHOW LATERAL BRACING FOR ALL WEB MEMBERS EXCEEDING 6 FEET LENGTH FOR COMPRESSION AND 10 FEET LENGTH FOR TENSION MEMBERS.

BRACING SHALL BE 2x4 MINIMUM SIZE AND SHALL BE NAILED TO ALL CROSSING TRUSSES WITH 2-16D COMMON. BRACING SHALL BE OVERLAPPED ONE TRUSS SPACING MINIMUM AT SPLICES.

BOTTOM CHORD BRACING SHALL BE USED IF CEILING IS NOT NAILED TO TRUSS BOTTOM CHORD. SHOW BOTTOM CHORD LATERAL BRACES ON TRUSS SKETCH AT ALL BOTTOM CHORD PANEL POINTS (MAXIMUM 10 FEET ON CENTER).

IN ADDITION TO TRUSS MANUFACTURER'S BRACING, THE CONTRACTOR SHALL INSTALL THREE CONTINUOUS ROWS OF 2X4 X-BRACING NEAR THE

CONCRETE NOTES

1. ALL CONCRETE WORK SHALL COMPLY WITH THE LATEST RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE LOCAL BUILDING CODES.
2. ALL CONCRETE SHALL BE NORMAL WEIGHT AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF **4000 PSI** AT 28 DAYS, WITH THE FOLLOWING REQUIREMENTS:

PORTLAND CEMENT	-	ASTM C150, TYPE OR II, 6 SACKS/CY
AGGREGATE	-	ASTM C33, MAXIMUM SIZE 1 1/2"
WATER	-	POTABLE; MAXIMUM WATER/CEMENT RATIO = 0.49
SLUMP	-	2" TO 4"
ADMIXTURES	-	AIR ENTRAINING AGENT, ASTM C260 - 4-6% AIR
	-	HIGH RANGE WATER REDUCING AGENT CONFORMING TO ASTM C494
	-	SUBMIT A CURRENT DESIGN MIX WITH 28-DAY STRENGTH TESTS TO THE ENGINEER FOR APPROVAL.
3. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
4. LAP ALL BARS MINIMUM 40 DIAMETERS AT SPLICES UNLESS INDICATED OTHERWISE ON DRAWINGS.
5. REINFORCEMENT SHALL BE SECURELY TIED IN PLACE DURING POURING OPERATIONS USING APPROVED CHAIRS AND SPACERS AS REQUIRED. USE BOLSTERS AND HIGH CHAIRS TO HOLD SLAB REINFORCING IN PLACE; THE USE OF CONCRETE BRICKS SHALL NOT BE ALLOWED.
6. FREE FALL FROM MIXER OR TRUCK TO CONVEYANCE SHALL NOT EXCEED 3'. WHEN PLACING CONCRETE IN FINAL POSITION, THE FREE FALL SHALL NOT EXCEED 4'. THE HORIZONTAL DISTRIBUTION OF CONCRETE BY SPADING OR VIBRATION IS PROHIBITED.
7. PROPER VIBRATION OF CONCRETE IS VERY IMPORTANT IN THE PLACEMENT OF CONCRETE. THE CONCRETE CONTRACTOR SHALL MAKE PROVISION FOR BACK-UP VIBRATION EQUIPMENT.
8. SLABS SHALL RECEIVE A STEEL TROWELL FINISH.
9. CURING: SLABS - CURE WITH WATER AND BURLAP FOR MINIMUM 7 DAYS.

CENTERLINE OF THE TRUSSES TO PREVENT LATERAL MOVEMENT OF TRUSSES.

THE TOP CHORDS OF THE LOWER TRUSSES OF "PIGGY BACK" DESIGNED TRUSSES SHALL BE BRACED TO PREVENT LATERAL DEFLECTION. INSTALL CONTINUOUS 2X4 BRACING AT 4 FEET ON CENTER, WITH 2X4 DIAGONAL BRACES AT EACH END.

7. SUBMIT 6 COPIES OF SHOP DRAWINGS, INCLUDING TEMPORARY AND PERMANENT BRACING, TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER, LICENSED TO PRACTICE STRUCTURAL ENGINEERING IN THE STATE OF VERMONT.
8. TEMPORARY BRACING DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS (TRUSS PLATE INSTITUTE, INC. 1976).
9. PREFABRICATED WOOD TRUSSES SHALL BE FABRICATED IN AN ENCLOSED STRUCTURE UNDER CONTROLLED CONDITIONS BY AN EXPERIENCED FABRICATOR. THE TRUSS FABRICATOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND HAVE APPROVAL OF HIS SHOP DRAWING PRIOR TO COMMENCING FABRICATION. NO TRUSSES SHALL BE ERECTED UNTIL AN APPROVED ERECTION PROCEDURE AND TEMPORARY BRACING PLAN ARE AVAILABLE.

DESIGN LOADS:

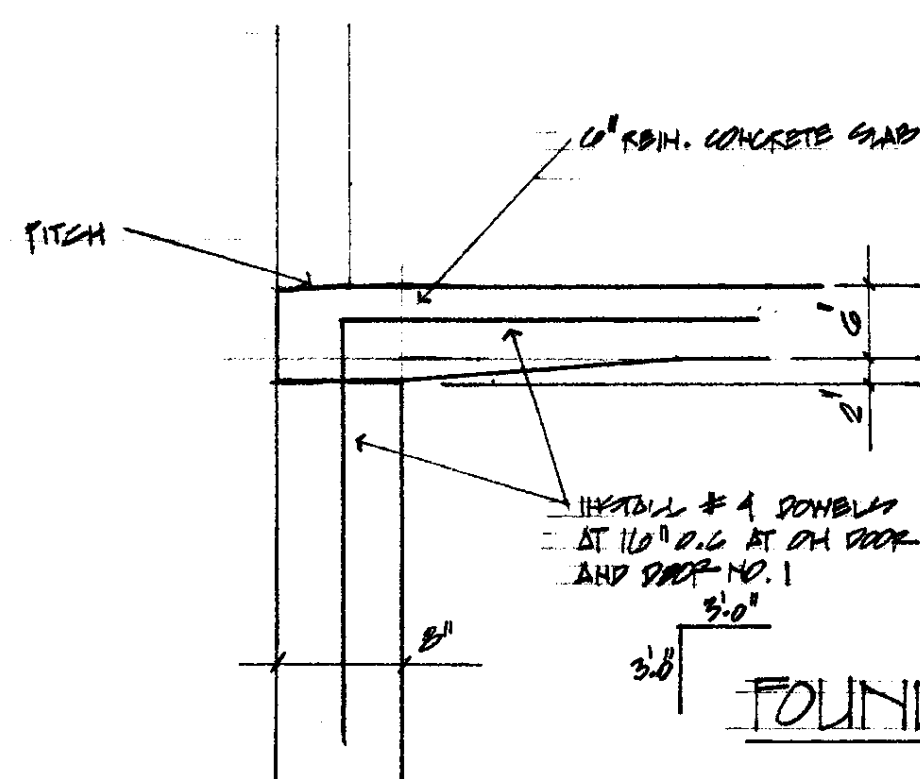
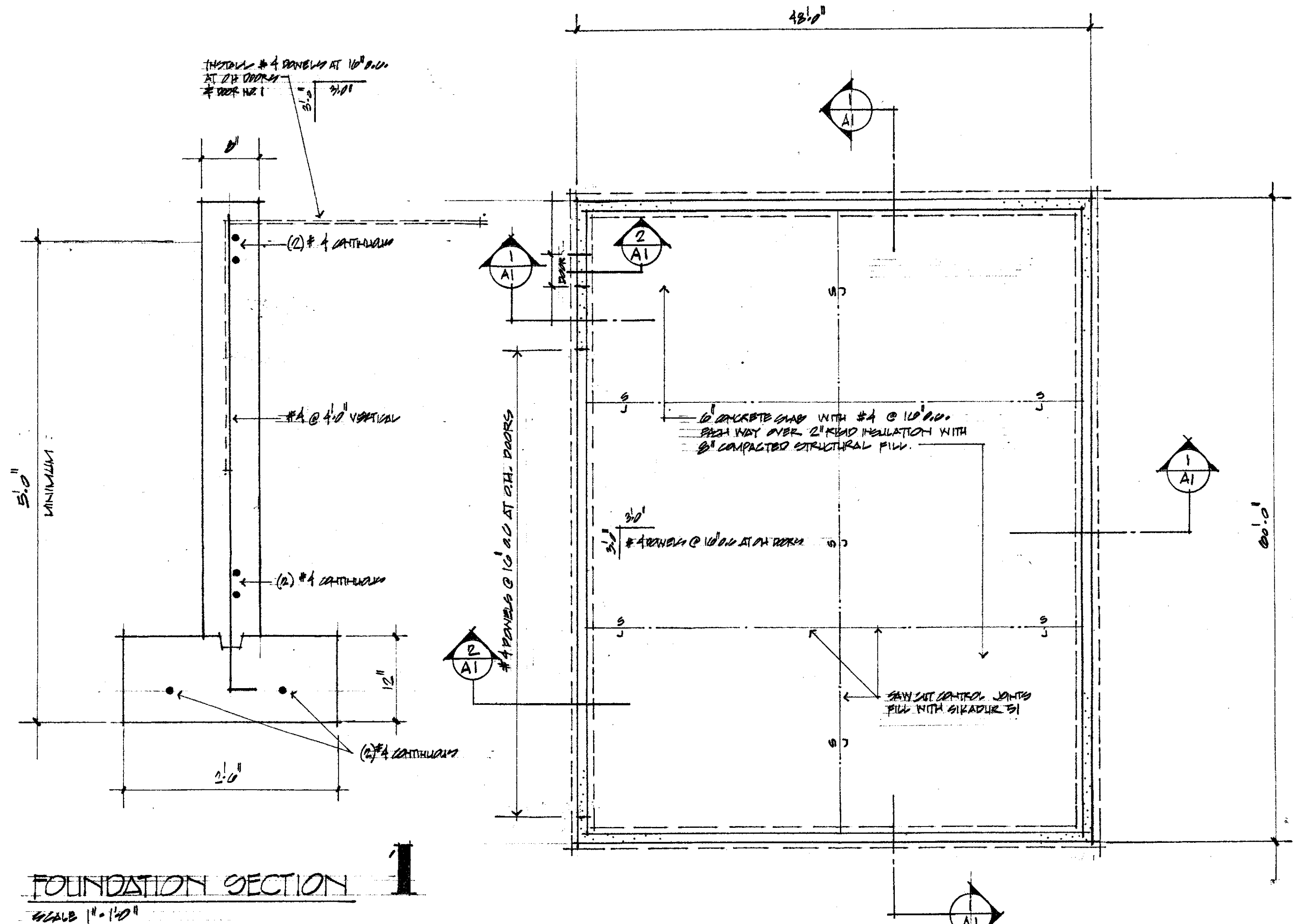
TOP CHORD LIVE LOAD	=	60	PSF
TOP CHORD DEAD LOAD	=	10	PSF
BOTTOM CHORD LIVE LOAD	=	10	PSF
BOTTOM CHORD DEAD LOAD	=	10	PSF *

TOTAL LOAD = 80 PSF

- * IN ADDITION TRUSS BOTTOM CHORDS ONLY SHALL BE ADEQUATE TO CARRY A 200 LB CONCENTRATED LOAD PLACED ANYWHERE. LOAD DURATION FACTOR MAY BE INCREASED TO 1.50 WHEN THIS LOAD IS APPLIED.

DEFLECTION REQUIREMENTS

TYPICAL TRUSSES - TOTAL LOAD DEFLECTION $\leq L/240$
- LIVE LOAD DEFLECTION $\leq L/360$

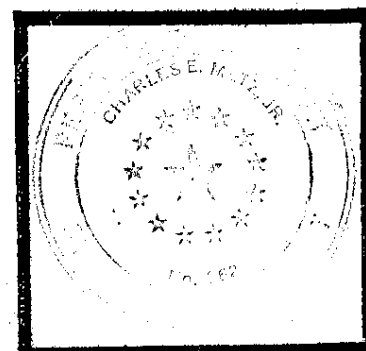


FOUNDATION PLAN

- NOTES
1. INSTALL 4 MIL HIGH DENSITY VAPOR BARRIER AT GRAVIMETER AREA ONLY

WOOD CONSTRUCTION NOTES

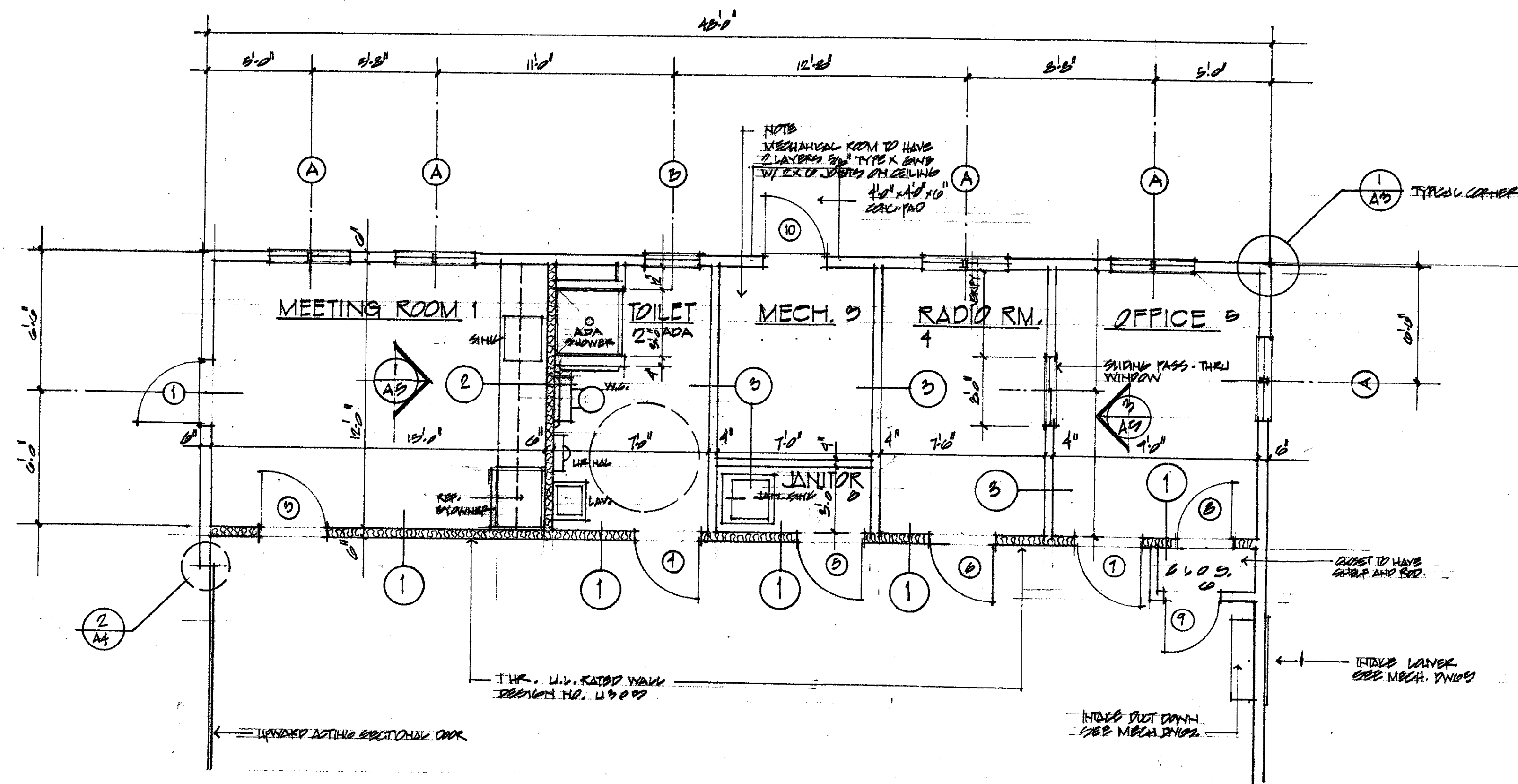
1. LUMBER FOR MISCELLANEOUS WOOD FRAMING AND BLOCKING SHALL BE SPRUCE-PINE-FIR, CONSTRUCTION GRADE AND BETTER WITH A MINIMUM BENDING STRESS OF 775 PSI.
2. LUMBER FOR STUDS AND JOISTS SHALL BE SPRUCE-PINE-FIR, NO. 2 OR BETTER GRADE WITH A MINIMUM BENDING STRESS OF 1000 PSI. ALL LUMBER IN CONTACT WITH EXISTING CONCRETE SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE.
3. ALL LUMBER SHALL BE STRAIGHT AND NEW, IN SOUND CONDITION, KILN DRIED WITH A MAXIMUM MOISTURE CONTENT OF 19%. ALL DIMENSION LUMBER SHALL BEAR THE GRADE AND MARK OF THE ASSOCIATION UNDER WHOSE RULES IT IS PRODUCED AND A MARK OF MILL IDENTIFICATION.
4. PLY WOOD SHEATHING SHALL BE STANDARD C-D INT-EPFA WITH EXTERIOR GLUE.
5. ALL WOOD FRAMING CONSTRUCTION SHALL BE ERECTED TRUE TO LINE AND DIMENSIONS, WELL FASTENED AND PROPERLY BRACED.



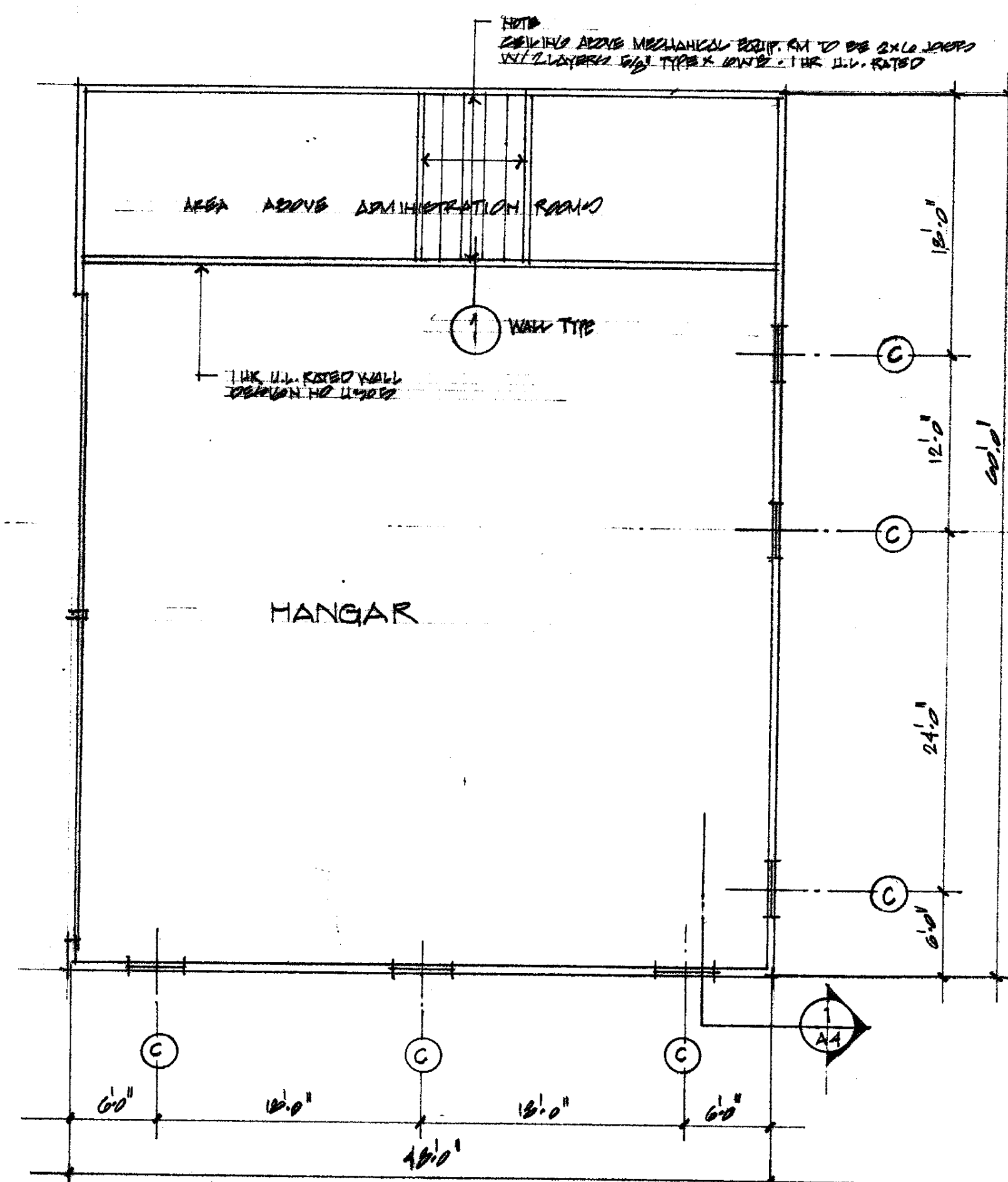
PROJECT:
NEW HANGAR FOR:
CIVIL AIR PATROL
TITLE: CALDWELL COUNTY STATE AIRPORT, MONTICELLO, VT
FOUNDATION PLAN
DETAILS

APRIL 2009
CHARLES E. METZ
ARCHITECT
THE GRIST MILL
BRADFORD VT 05033

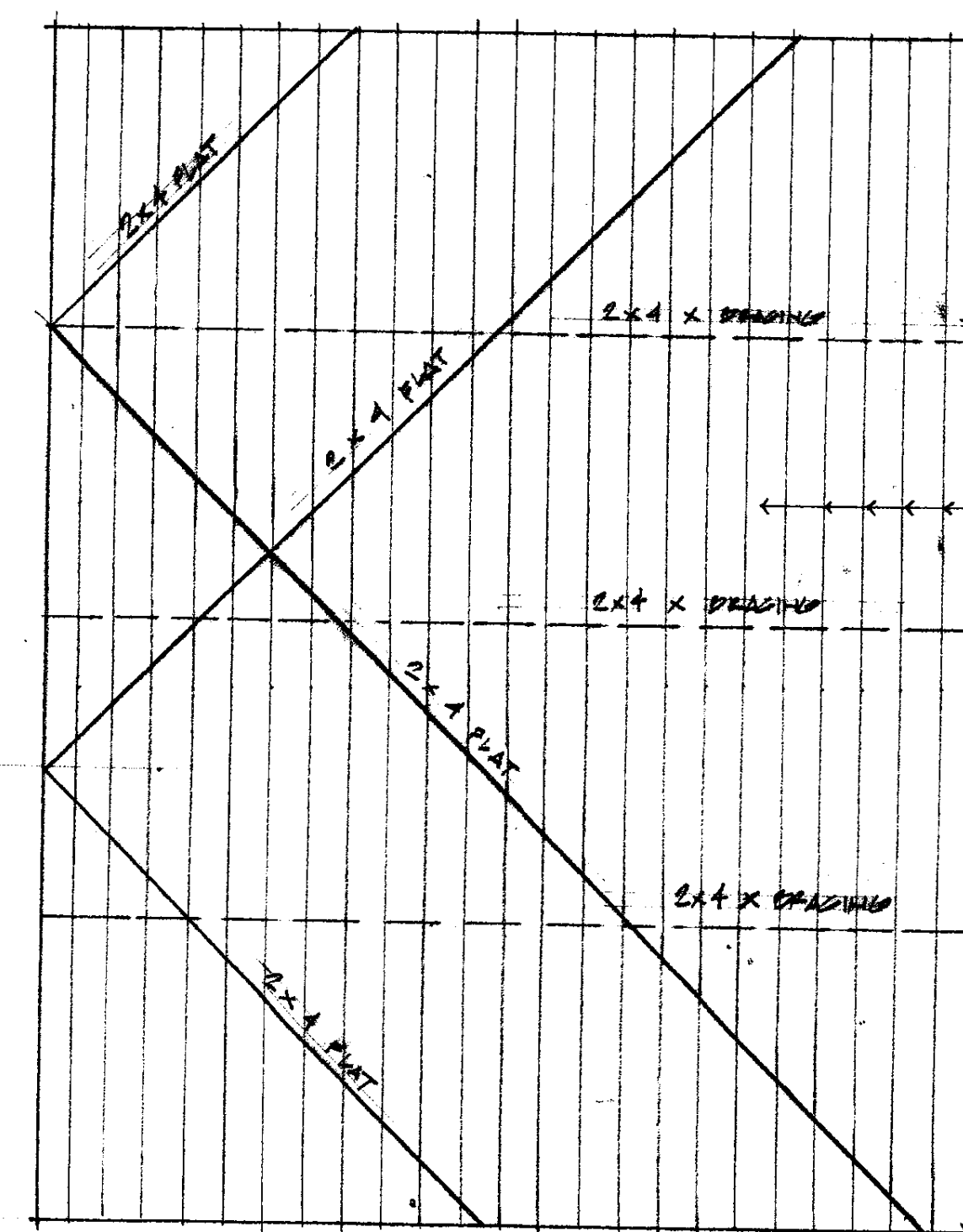
DRAWING:
A1



PARTIAL FLOOR PLAN - ADMINISTRATION AREA SCALE 1/4" = 1'-0"

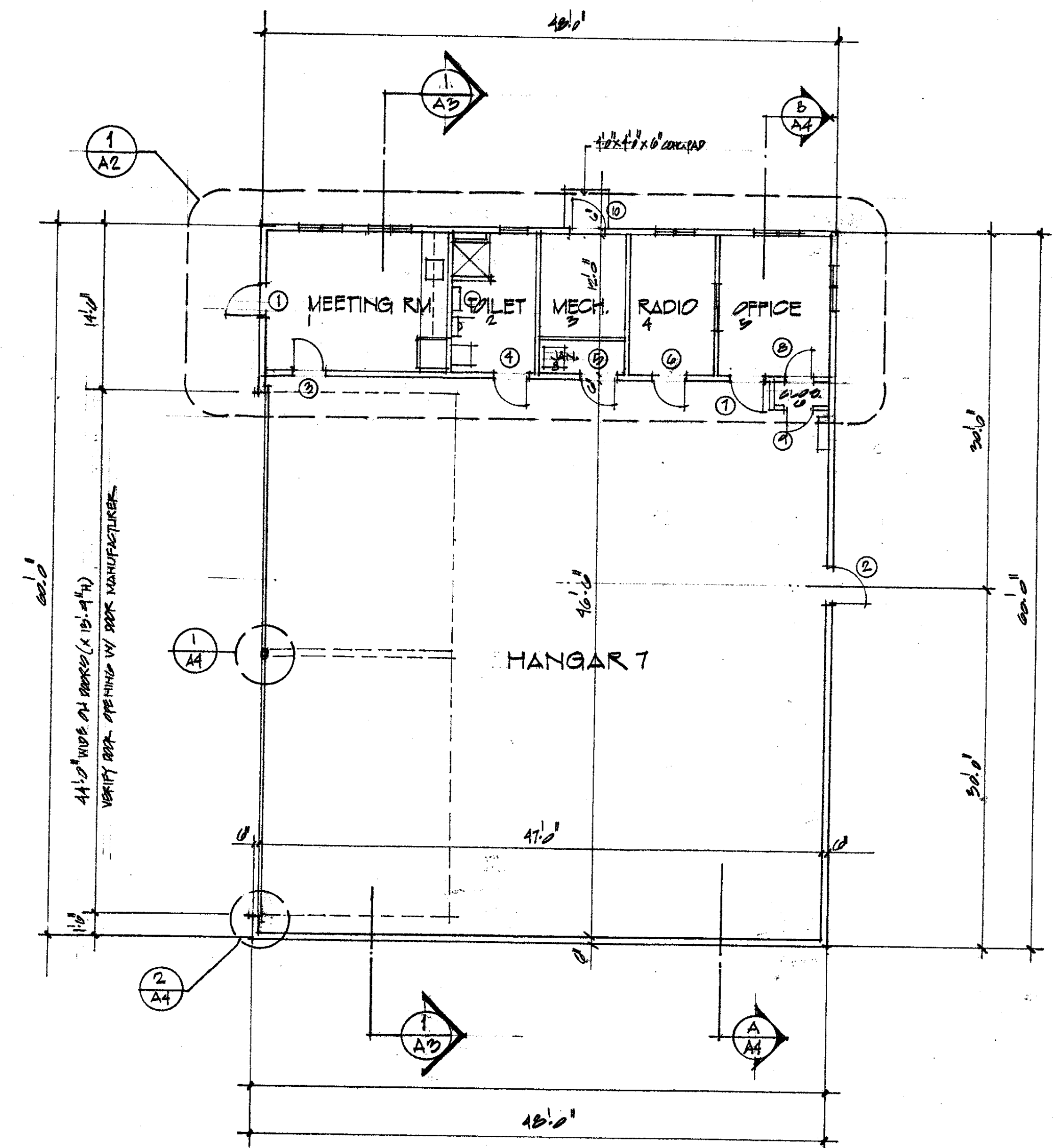


PLAN - UPPER LEVEL OF HANGAR SCALE 1/8" = 1'-0"



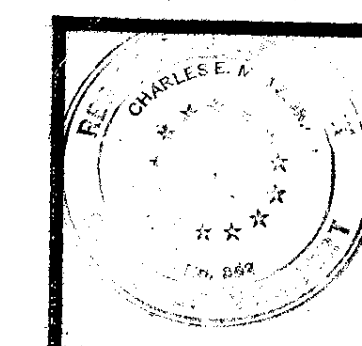
- NOTES
- 2x4 PLATE ARE NAILED TO TOP OF TRUSS BOTTOM CHORD WITH (2) 10d NAILS.
 - 2x4 x BRACING ARE NAILED TO TRUSS WEB MEMBERS.
 - ATTACH ALL BRACING TO EXTERIOR WALLS WITH 2x4 CLEATS AND 10d NAILS.

TRUSS WIND BRACING PLAN



GROUND FLOOR PLAN

SCALE 1/8" = 1'-0"



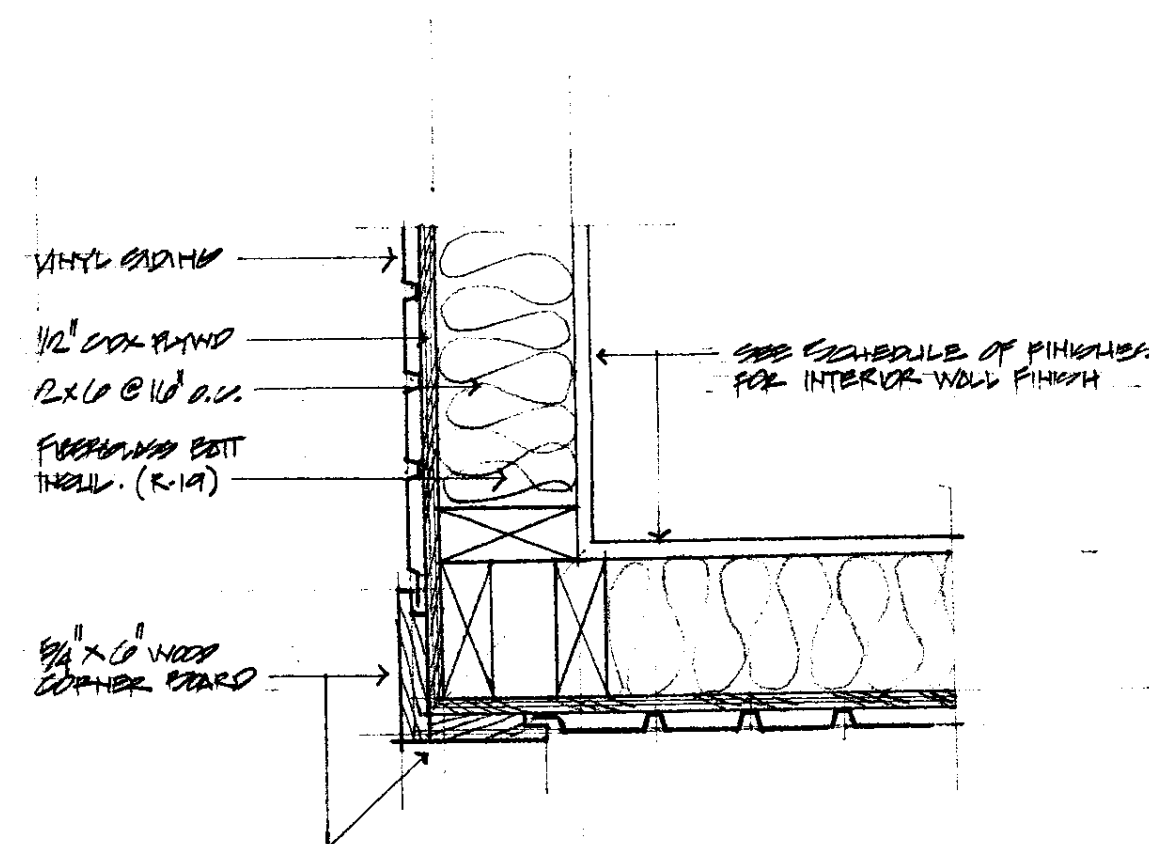
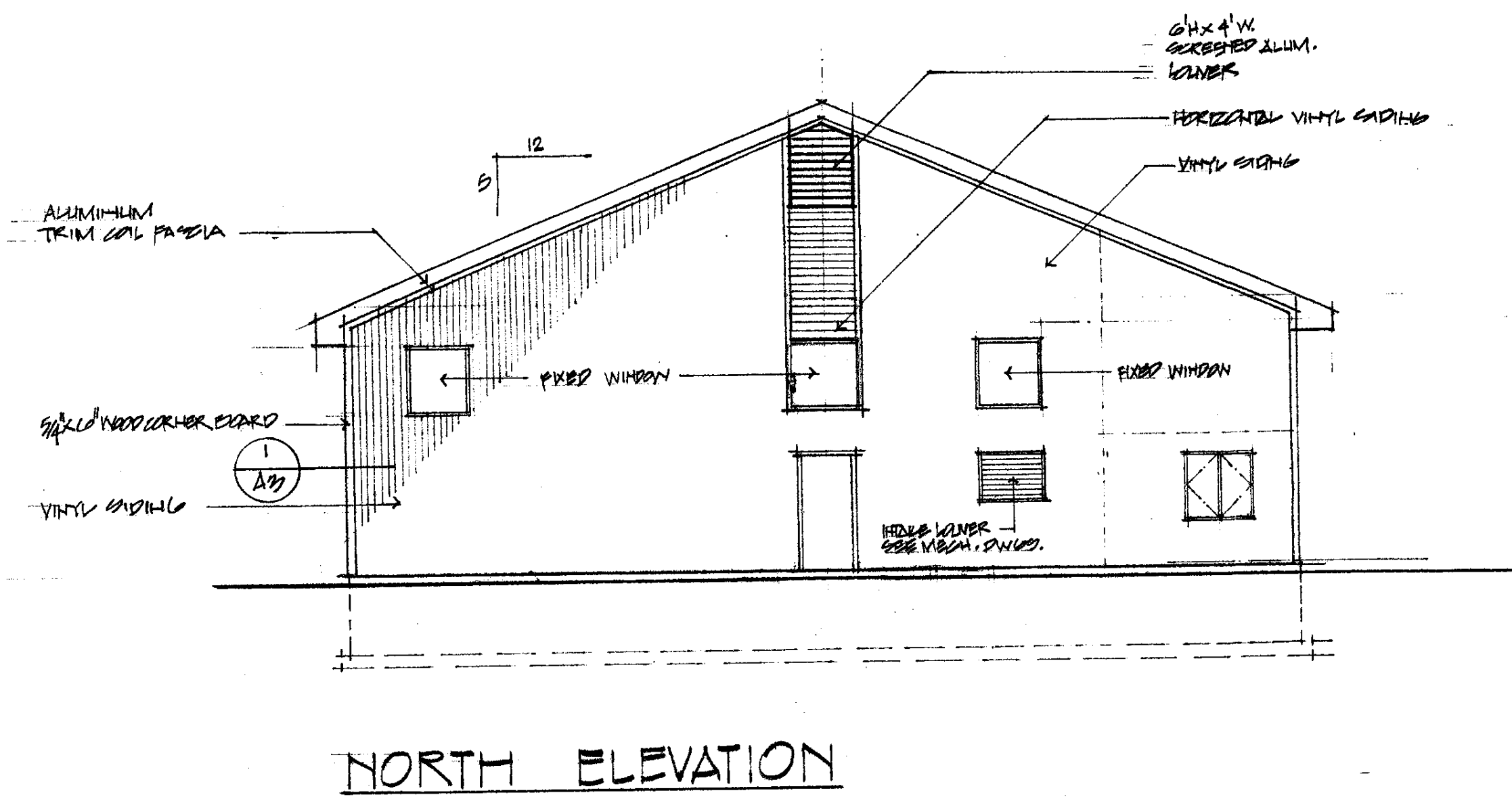
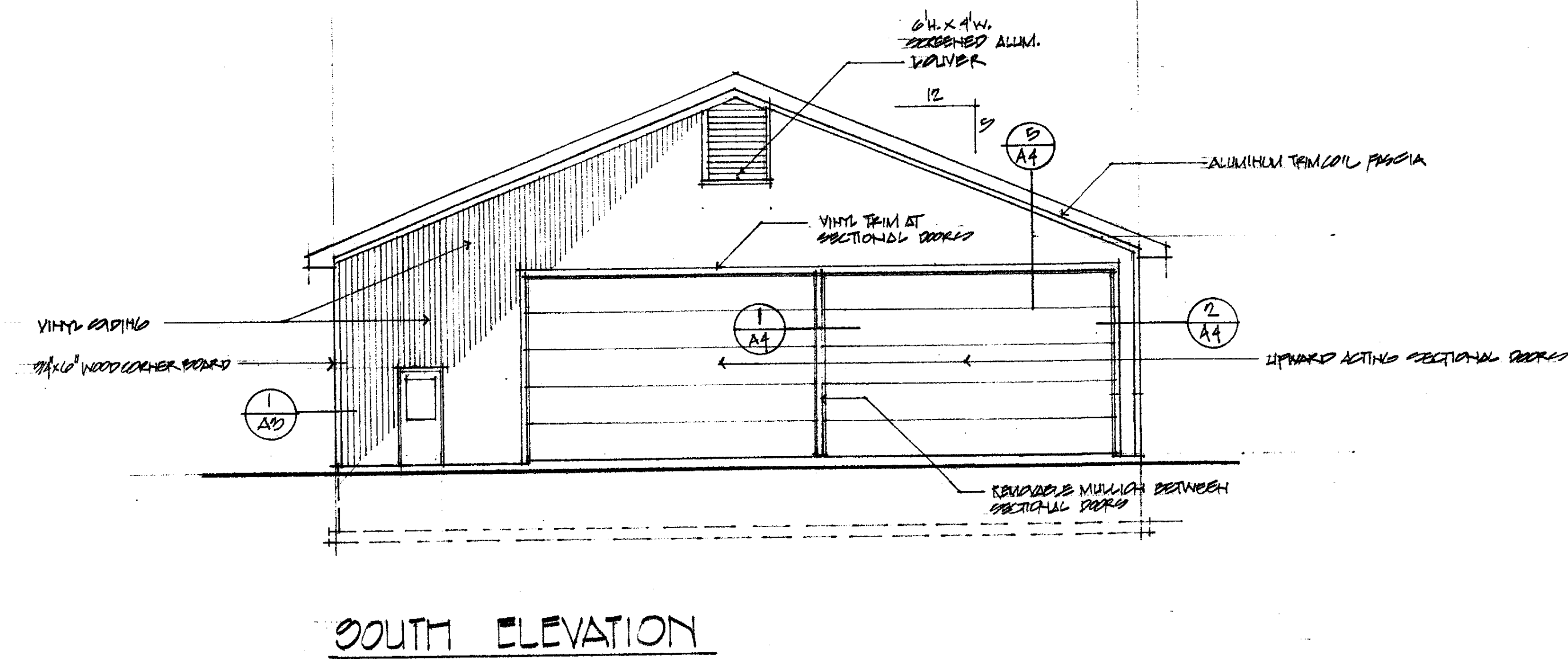
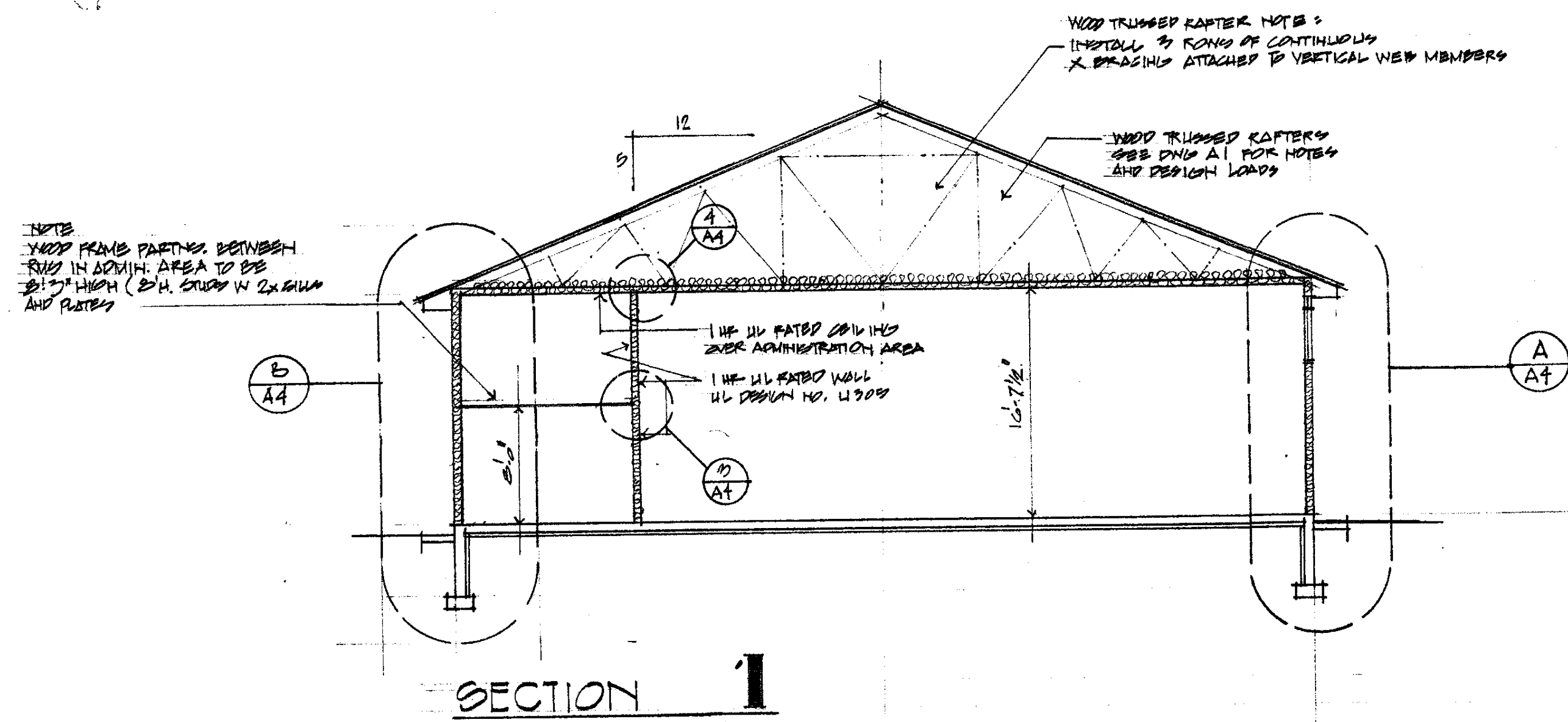
PROJECT:
NEW HANGAR FOR
CIVIL AIR PATROL
TITLE: CALVERDON COUNTY STATE AIRPORT, LINDA VILLE, VT.
FLOOR PLANS

APRIL 2007

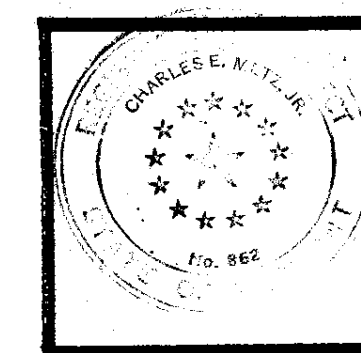
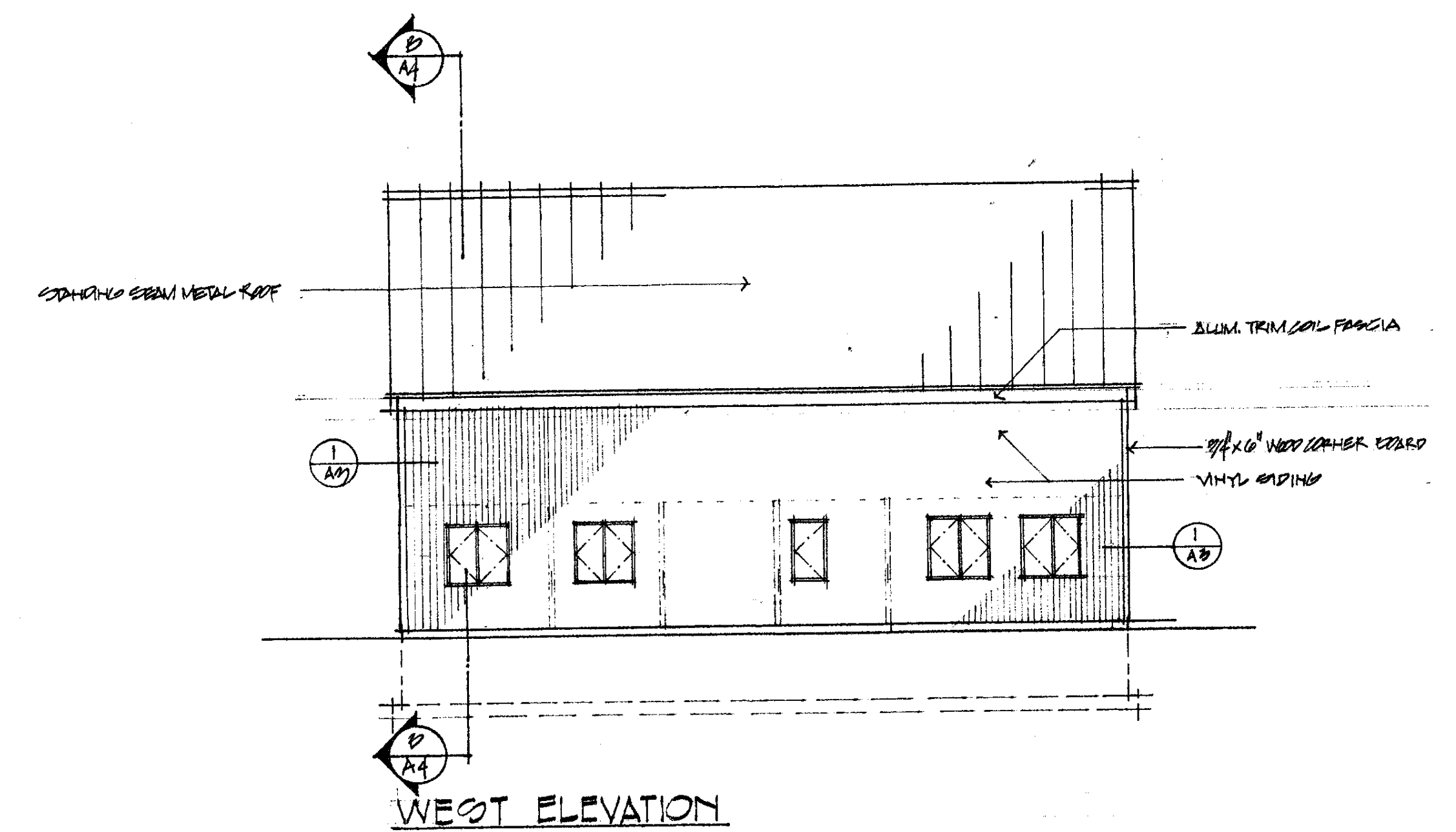
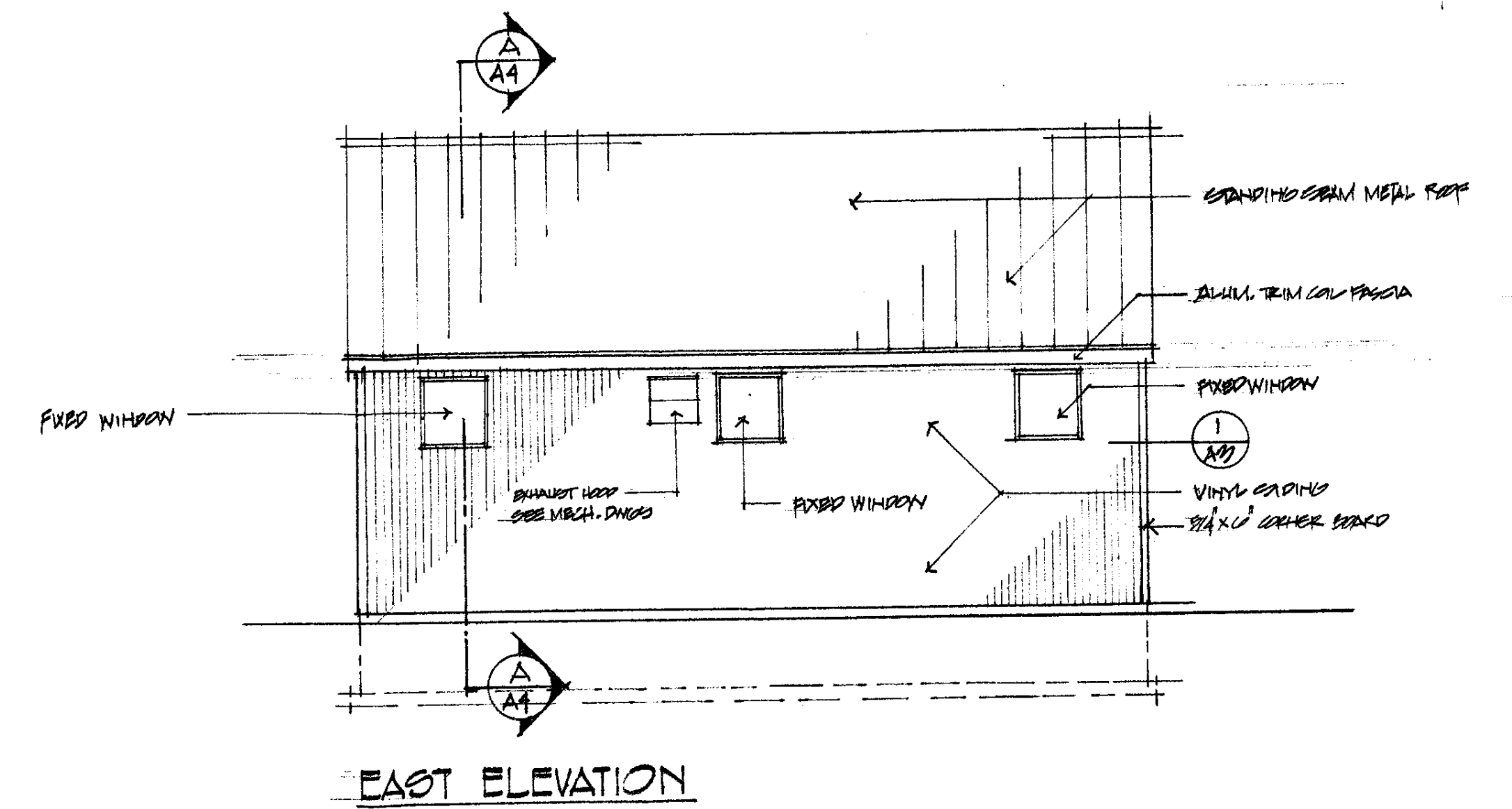
CHARLES E. METZ
ARCHITECT
THE GRIST MILL
BRADFORD VT 05033

DRAWING:

A2



CORNER BOARD DETAIL 1



PROJECT:
NEW HANGAR FOR
CIVIL AIR PATROL
TITLE:
SECTION 1
EXTERIOR ELEVATIONS

APRIL 2007

CHARLES E. METZ
ARCHITECT
THE GRIST MILL
BRADFORD VT 05033

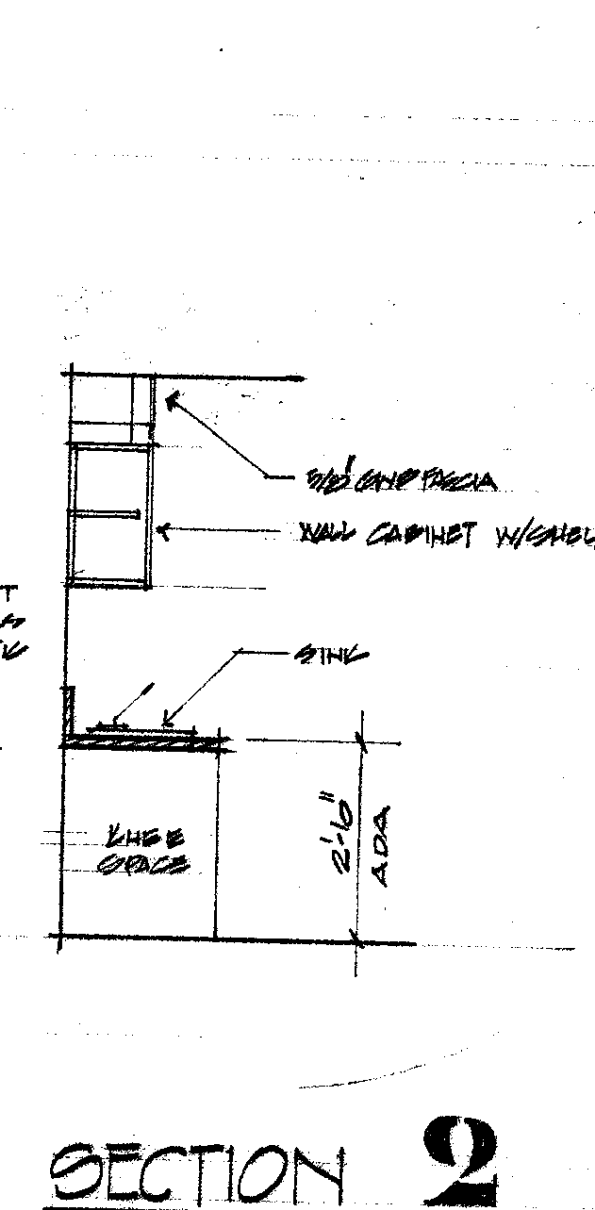
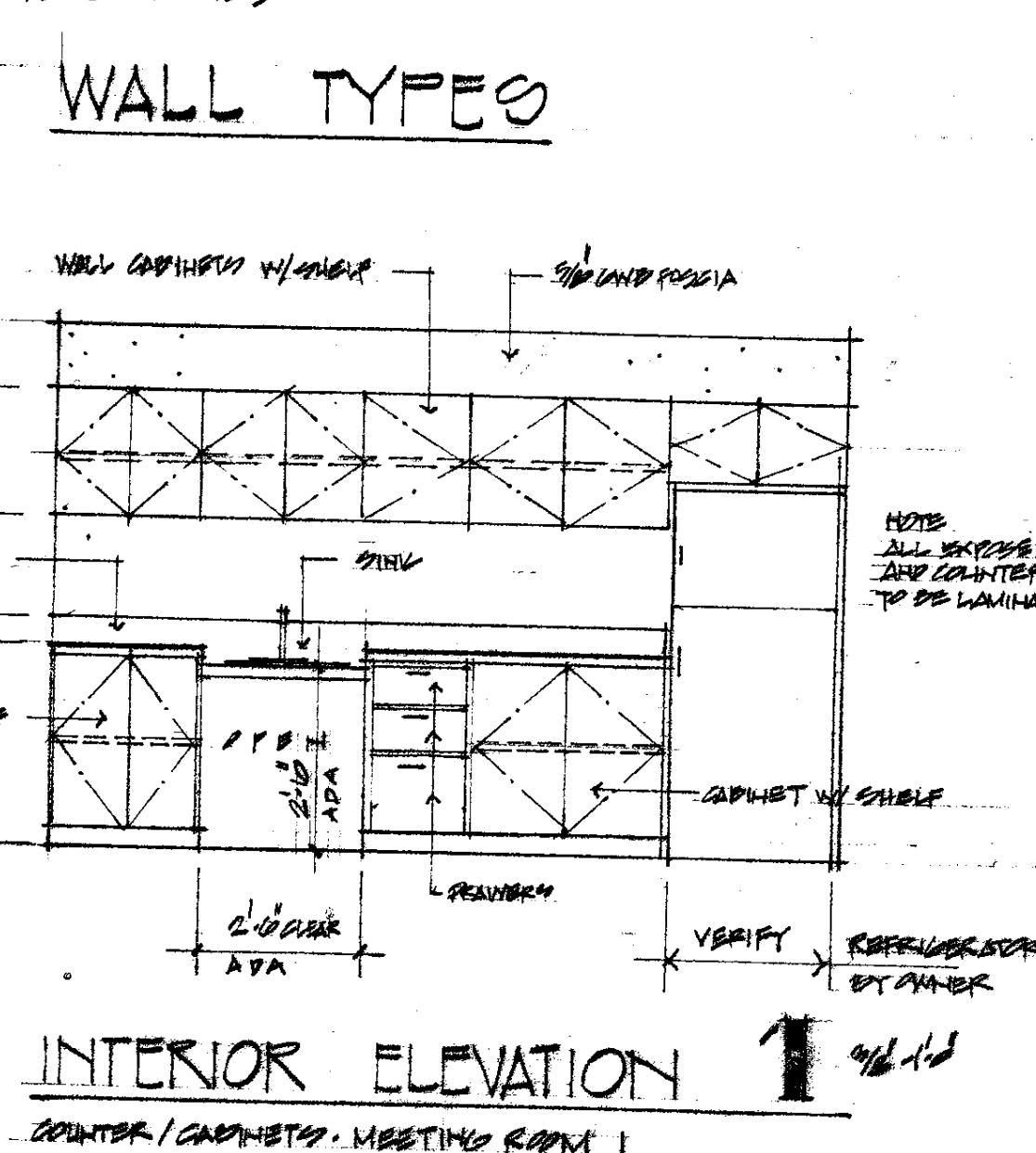
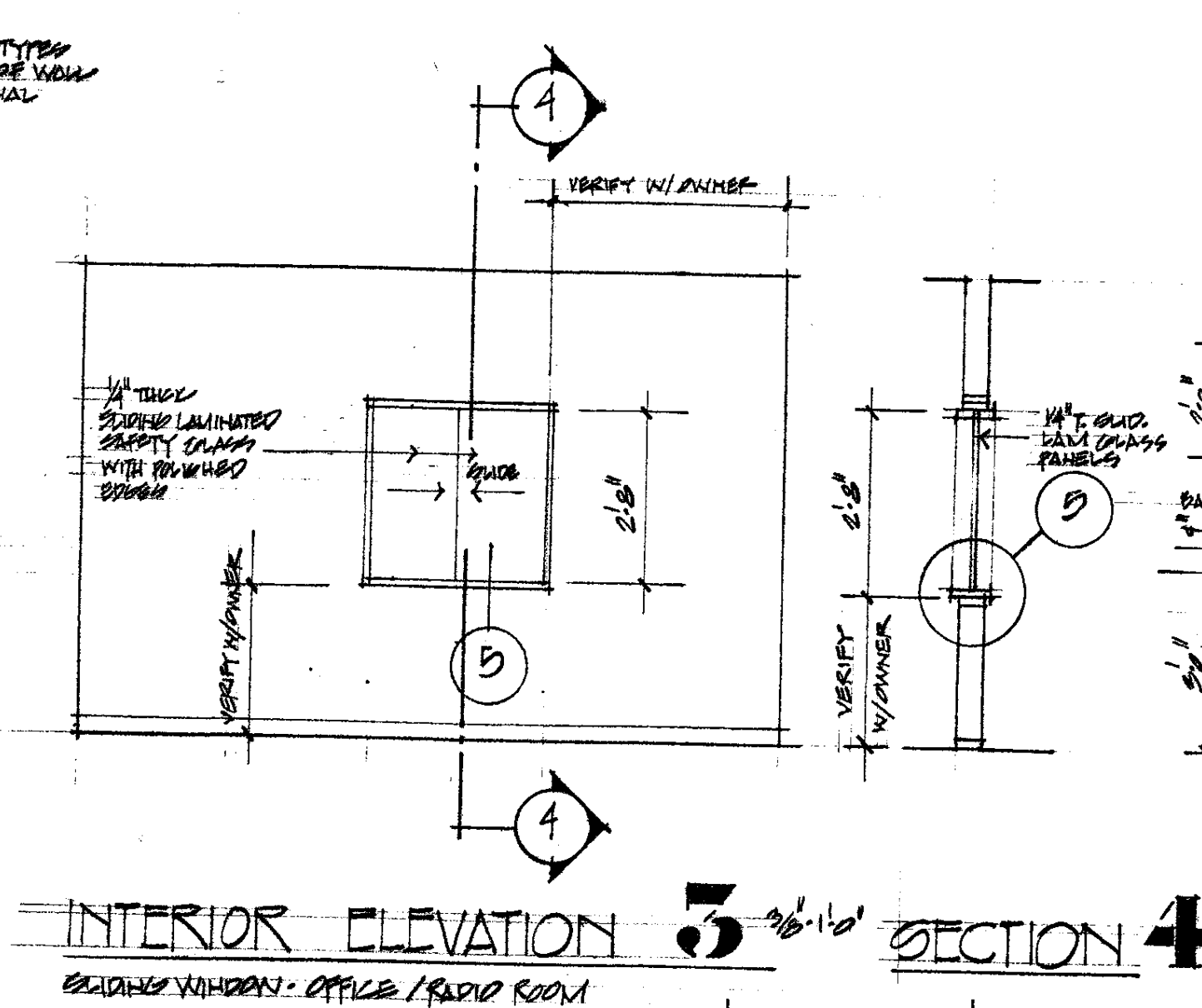
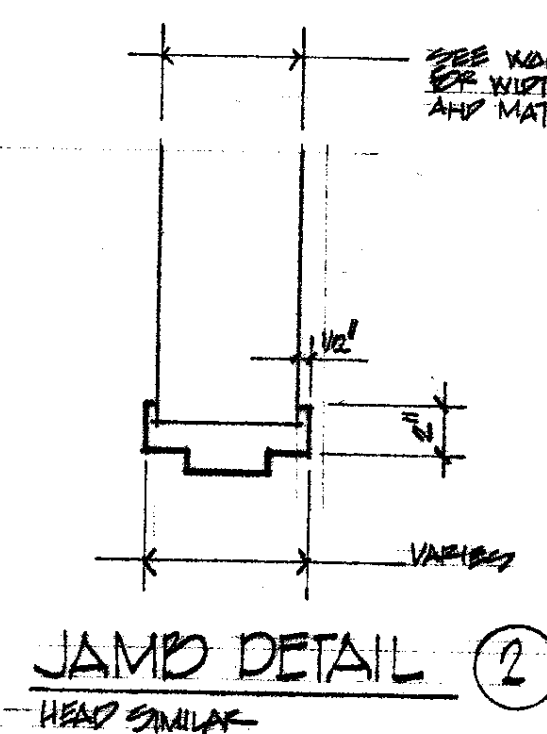
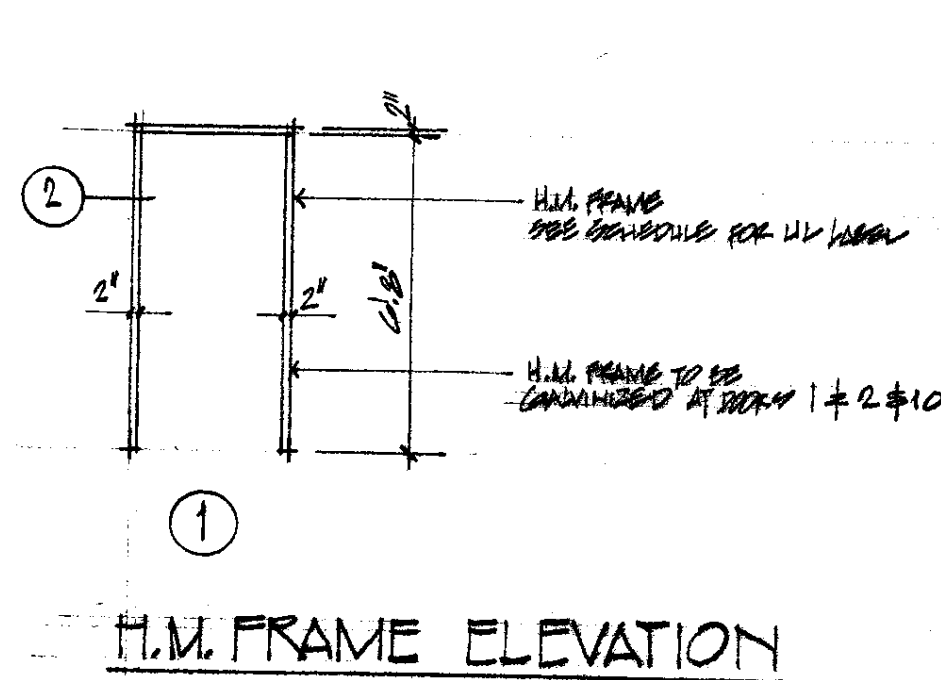
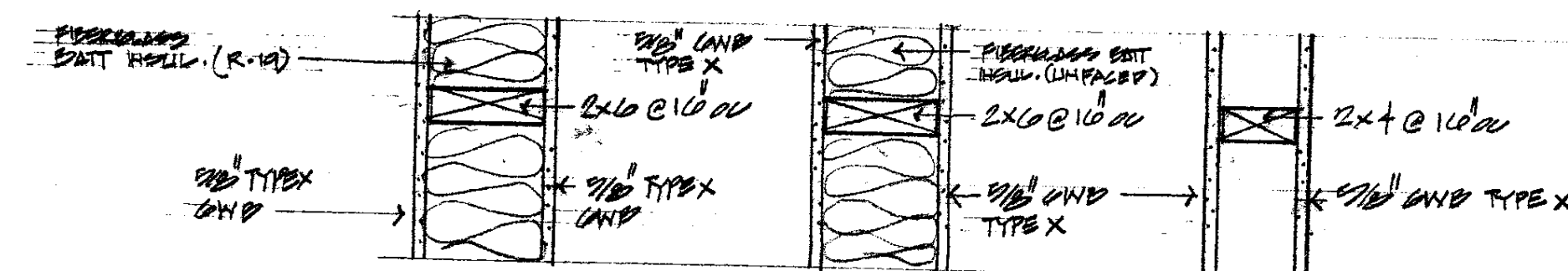
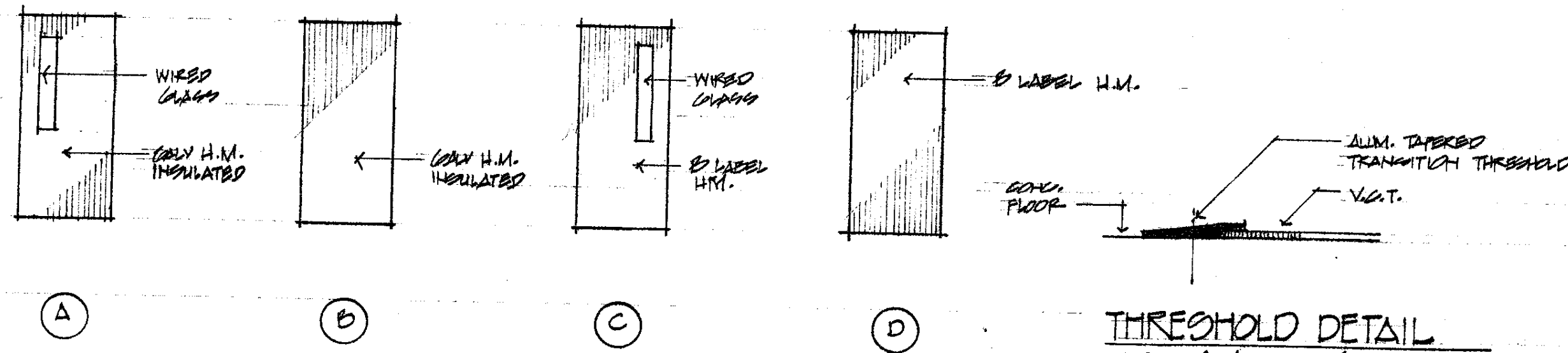
DRAWING:
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DOOR AND FRAME SCHEDULE												
DOOR NO.	DOOR DESCRIPTION				FRAME			DETAILS			GLASS TYPE	LVL LABEL
	SYMB.	MATERIAL	WIDTH	HEIGHT	SYMB.	MAT'L.	THRESH.	HEAD	JAMB	SILL		
1	A	GLASS, H.M.	3'-0"	6'-8"	1	GLASS, H.M.	ALUM.	2	2	-	WIRE	-
2	B	GLASS, H.M.	3'-0"	6'-8"	1	GLASS, H.M.	ALUM.	2	2	-	-	-
3	C	H.M./GLASS	3'-0"	6'-8"	1	H.M.	ALUM.	2	2	-	WIRE	B LABEL
4	D	H.M.	3'-0"	6'-8"	1	H.M.	ALUM.	2	2	-	-	B LABEL
5	D	H.M.	3'-0"	6'-8"	1	H.M.	-	2	2	-	-	B LABEL
6	C	H.M./GLASS	3'-0"	6'-8"	1	H.M.	ALUM.	2	2	-	WIRE	B LABEL
7	C	H.M./GLASS	3'-0"	6'-8"	1	H.M.	ALUM.	2	2	-	WIRE	B LABEL
8	D	H.M.	3'-0"	6'-8"	1	H.M.	-	2	2	-	-	B LABEL
9	D	H.M.	3'-0"	6'-8"	1	H.M.	-	2	2	-	-	B LABEL
10	B	GLASS, H.M.	3'-0"	6'-8"	1	GLASS, H.M.	ALUM.	2	2	-	-	-

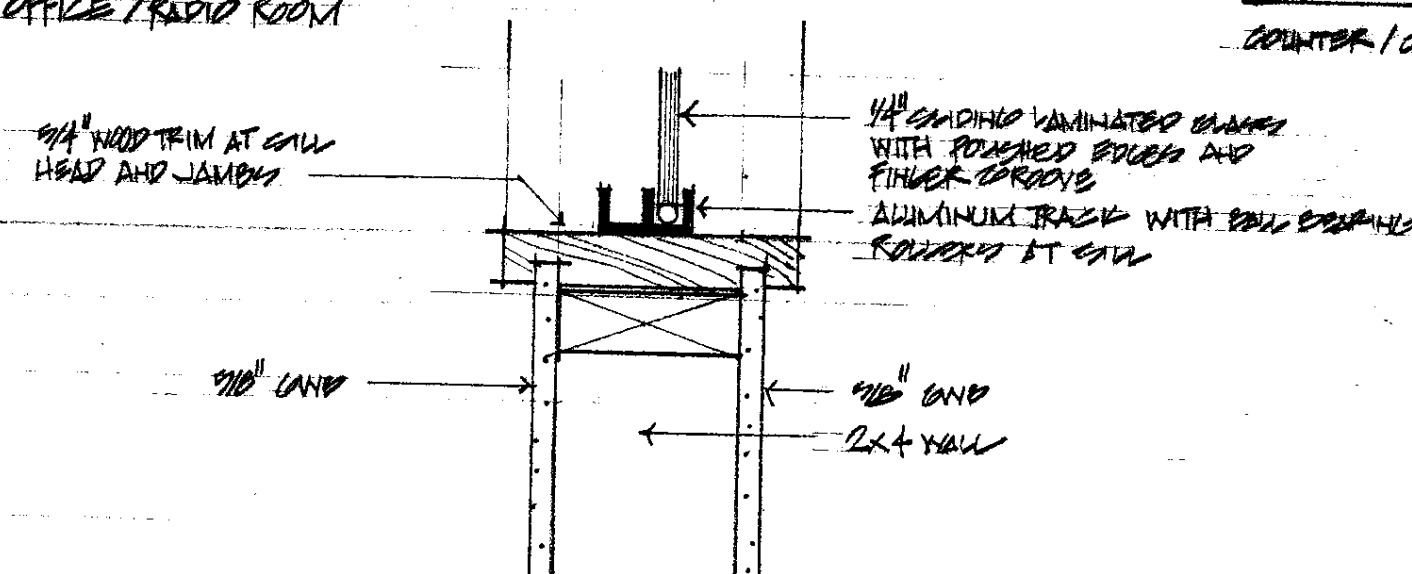
REMARKS: DOOR TO BE INSULATED. THRESHOLD TO HAVE THERM. BREAK.

SCHEDULE OF INTERIOR FINISHES									
NO.	ROOM	FLOOR	BASE	WALLS				CEILING	NOTATION
				NORTH	SOUTH	EAST	WEST		
1	MEETING ROOM	VCT	VINYL	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	GLASS, ACES PANEL	
2	TOILET ROOM	VCT	VINYL	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	GLASS, ACES PANEL	
3	MECHANICAL	CON.	VINYL	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	GLASS, ACES PANEL	
4	RADIO ROOM	VCT	VINYL	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	GLASS, ACES PANEL	
5	OFFICE	VCT	VINYL	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	GLASS, ACES PANEL	
6	CLOSET	VCT	VINYL	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	GLASS, ACES PANEL	
7	HANGAR	CON.	-	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	GLASS, ACES PANEL	
8	JANTER	VCT	VINYL	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	2 1/2" TYPE X GNB	GLASS, ACES PANEL	

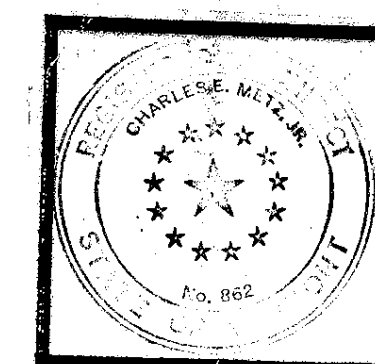
GLASS - GLASS, ACES PANEL
VCT - VINYL COMPOSITION TILE
ACES PANELS - SUSPENDED ACES PANELS



WINDOW SCHEDULE						
NO.	TYPE	MATERIAL	SIZE	GLASS	SCREENING	NOTATION
A	CASEMENT	VINYL	4'-0" x 4'-0"	INSULATED	YES	W/ JAMB EXTENDING TO ROOF
B	CASEMENT	VINYL	4'-0" x 4'-0"	INSULATED	YES	W/ JAMB EXTENDING TO ROOF
C	FIXED	VINYL	4'-0" x 4'-0"	INSULATED	NO	W/ JAMB EXTENDING TO ROOF



SILL DETAIL 3
SHADING WINDOW AT OFFICE/RADIO RM.



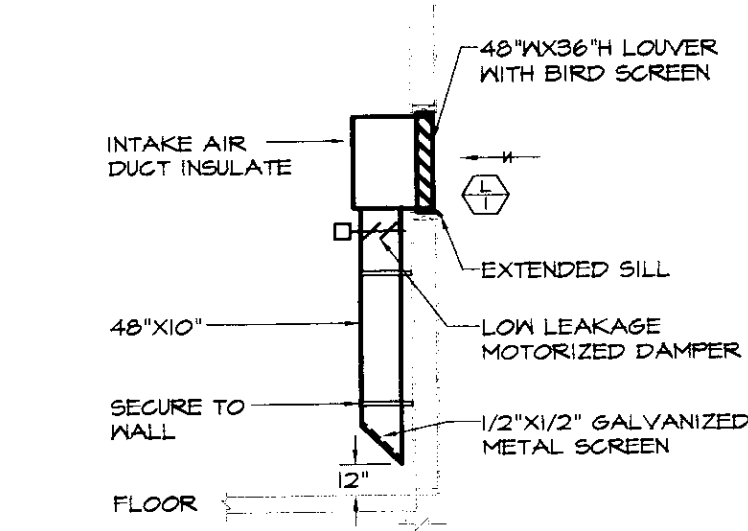
PROJECT:
NEW HANGAR FOR
CIVIL AIR PATROL
TITLE:
FINISH, DOOR AND WINDOW SCHEDULE
DETAILS AND WALL TYPES

APRIL 2007
CHARLES E. METZ
ARCHITECT
THE GRIST MILL
BRADFORD VT 05033

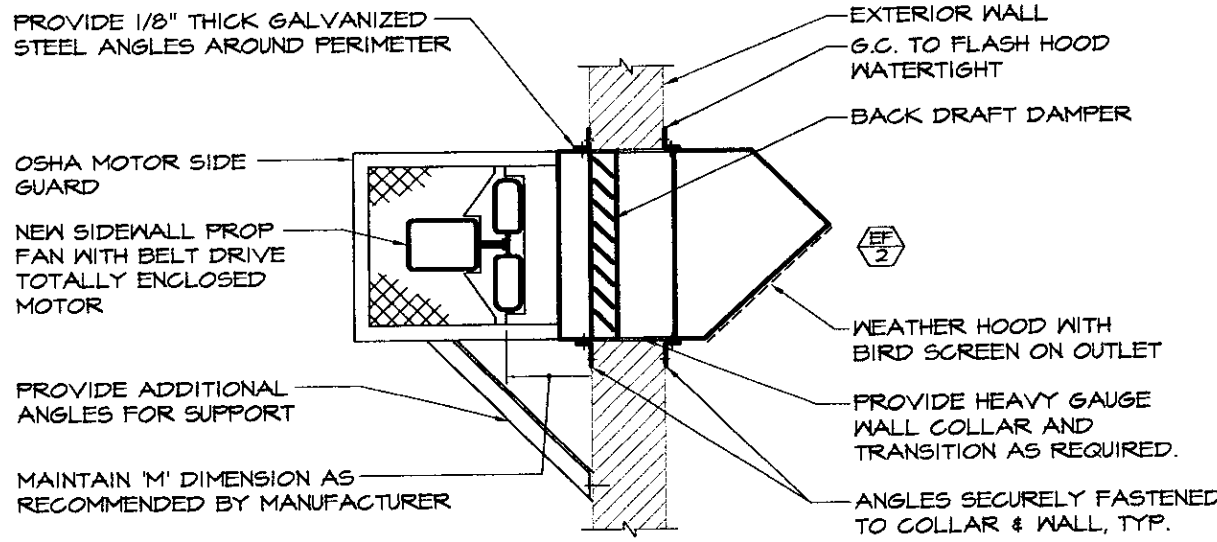
DRAWING:
A5

MECHANICAL LEGEND AND ABBREVIATIONS

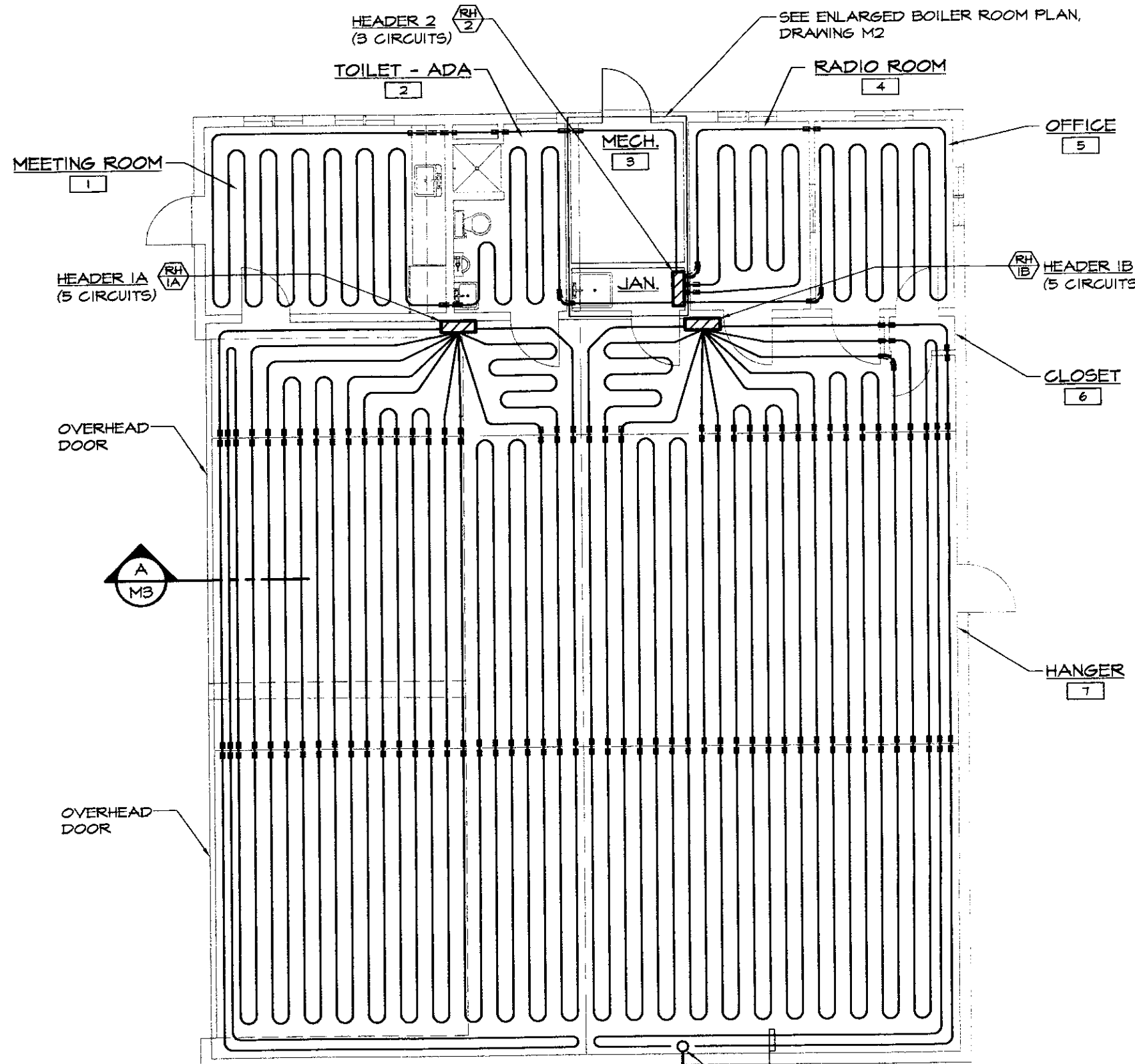
- NEW DUCTWORK
- RETURN DUCT DOWN
- EXHAUST FAN
- MOTORIZED DAMPER
- HWS HOT WATER SUPPLY
- HWR HOT WATER RETURN
- LP GAS PIPING
- IN-LINE PUMP
- PIPE UNION
- PIPE RISER
- PIPE DROP
- PIPE CAP
- BOTTOM PIPE CONNECTION
- TOP PIPE CONNECTION
- BALL VALVE
- CHECK VALVE
- BALANCING VALVE
- DRAIN VALVE
- BACK FLOW PREVENTER
- STRAINER W/ BLOW DOWN VALVE
- 2-WAY VALVE
- 3-WAY VALVE
- AIR VENT
- PRESSURE GAUGE
- TEMPERATURE SENSOR
- PRESSURE RELIEF VALVE (PRV)
- TEMPERATURE GAUGE
- LP GAS REGULATOR
- THERMOSTAT, SUBSCRIPTS:
E = 120V ELECTRIC, # = ZONE
- AIR FLOW INDICATOR
- ABOVE FINISHED FLOOR
- BACK DRAFT DAMPER
- MECHANICAL CONTRACTOR
- PLUMBING CONTRACTOR
- ELECTRICAL CONTRACTOR
- GENERAL CONTRACTOR
- SECTION NUMBER
- DWS. NUMBER
- EXHAUST FAN
- LOUVER
- RADIANT HEATING SYSTEM HEADER
- DRAWING NOTE TAG
- PUMP TAG
- EQUIPMENT TAG



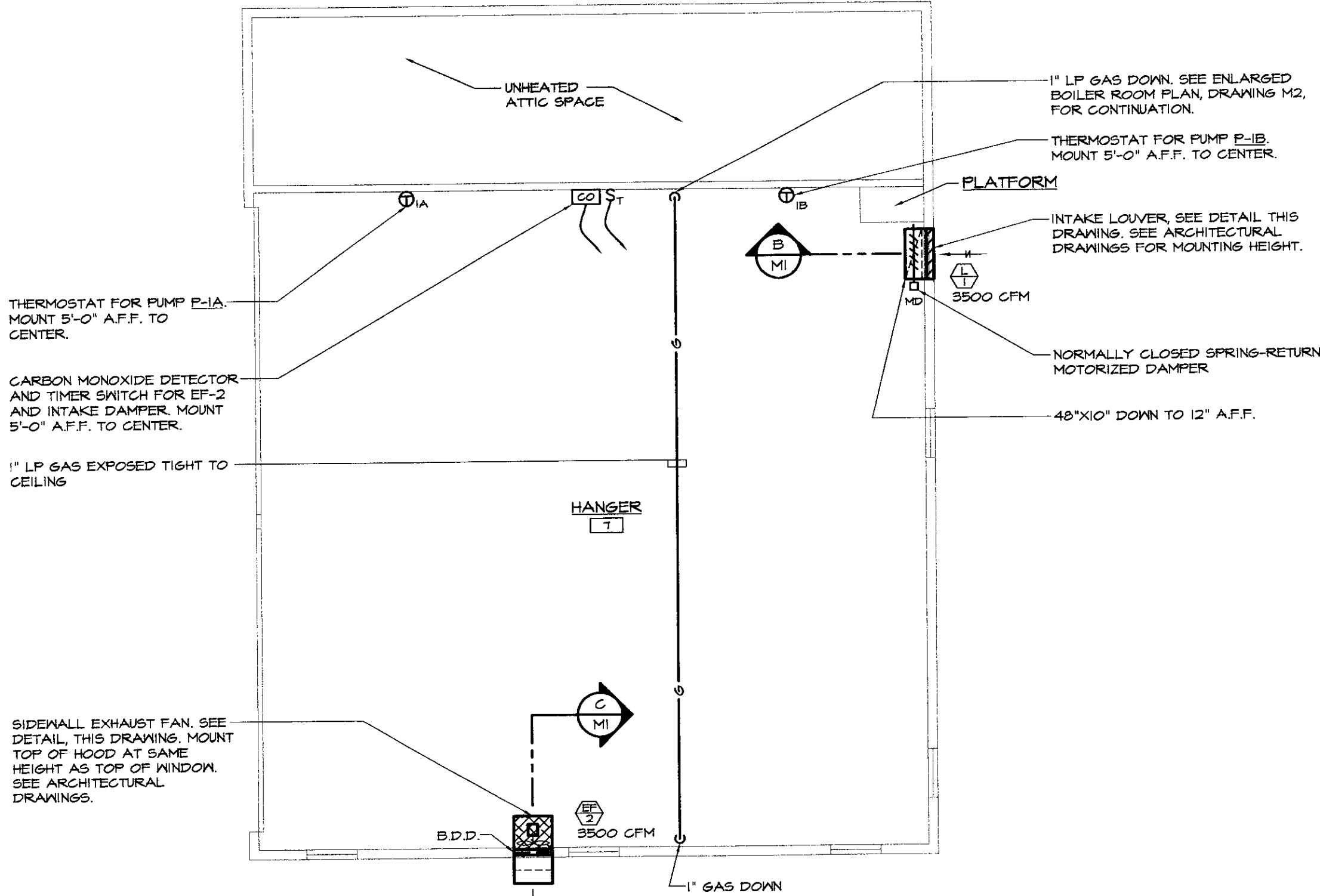
INTAKE LOUVER DETAIL
SCALE: 1/4"=1'-0"



SIDEWALL EXHAUST FAN DETAIL
NOT TO SCALE



GROUND FLOOR PLAN - MECHANICAL
SCALE: 1/8"=1'-0"



UPPER LEVEL PLAN - MECHANICAL
SCALE: 1/8"=1'-0"

1	BIDDING & CONSTRUCTION	04/19/05
NO.	ISSUED FOR	DATE

L

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C

ASSOCIATES

CONSULTING ENGINEERS, P.C.

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FLOOR PLANS - MECHANICAL AND MECHANICAL DETAILS			
NEW HANGER CIVIL AIR PATROL CALEDONIA COUNTY AIRPORT LYNDONVILLE, VT			
APPR:	DWD	DRAWN:	TDL/RRT
SCALE:		AS NOTED	

M

1

PROJ. NO. 0312-14

CIRCULATOR PUMP SCHEDULE										PLAN SYMBOL	P.#
No.	MANUFACTURER	SERIES	MODEL	MIN. GPM	HEAD (FT. HD.)	MOTOR				REMARKS	
						HP	VOLT	PH	RPM		
P-1A	TACO	00	0011	6.5	24	1/8	115	1	3250	HEADER 1A PUMP	
P-1B	TACO	00	0011	4.5	20	1/8	115	1	3250	HEADER 1B PUMP	
P-2	TACO	00	0014	1.0	20	1/8	115	1	3250	HEADER 2 PUMP	
P-3	TACO	00	0011	-	-	1/8	115	1	3250	BOILER PUMP, NOTE 1	
P-4	TACO	00	0010	12.0	10	1/8	115	1	3250	SYSTEM PUMP	
P-5	TACO	00	0011	1.0	18	1/8	115	1	3250	DOM. HOT WATER PUMP	

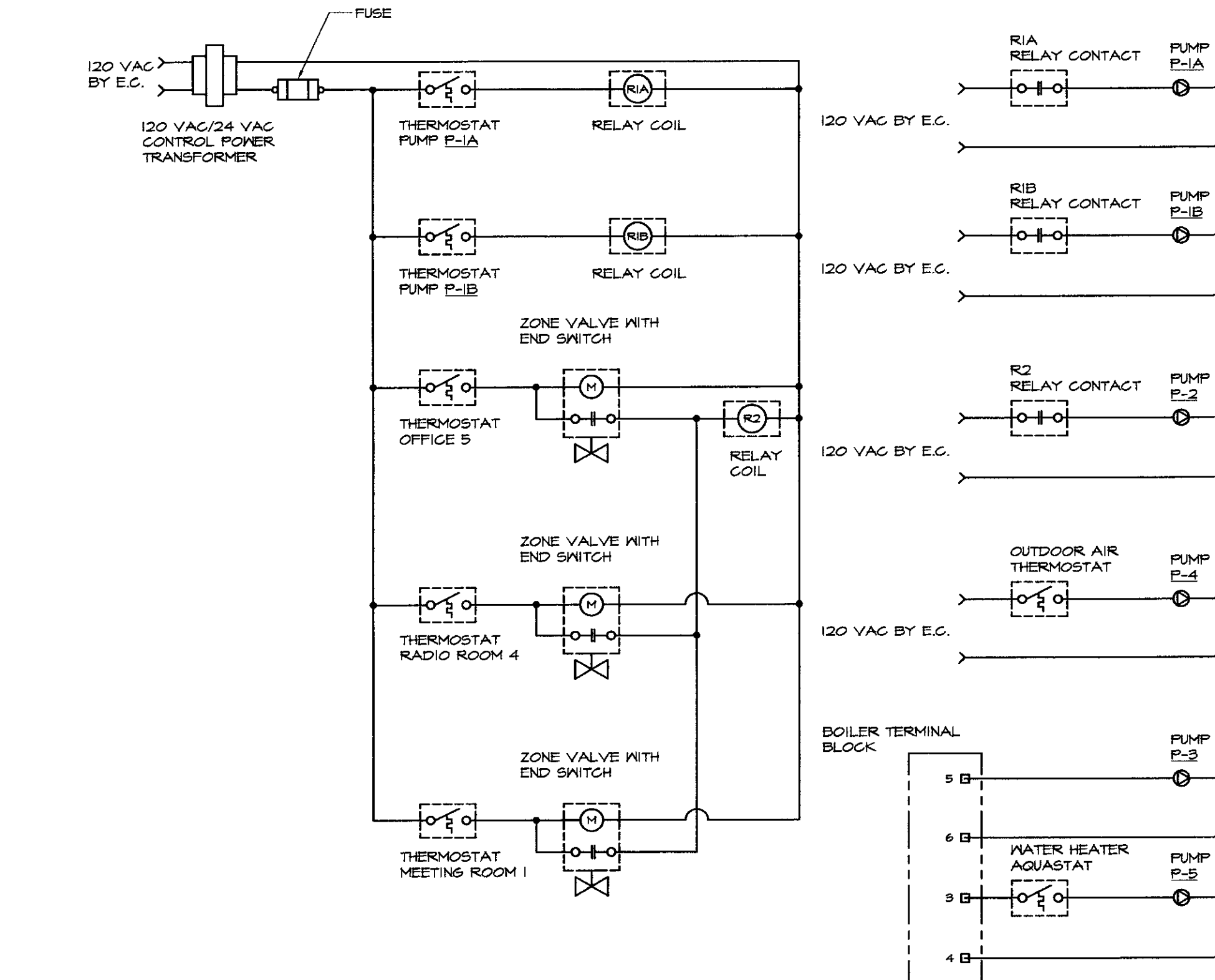
NOTES:
1) PUMP PROVIDED WITH BOILER AND SHIPPED LOOSE FOR FIELD INSTALLATION.

EXHAUST FAN SCHEDULE										PLAN SYMBOL	P.#
No.	MANUFACTURER	MODEL	CFM	E.S.P.	TYPE	RPM	MODEL			REMARKS	
							H.P.	VOLT	PH		
EF-1	GREENHECK	SP-B150	155	0.125	CEILING	1050	1/4	115	1	NOTE 2	
EF-2	GREENHECK	SB-2H24-5	3500	0.30	SIDENALL	961	1/2	115	1	NOTE 1	

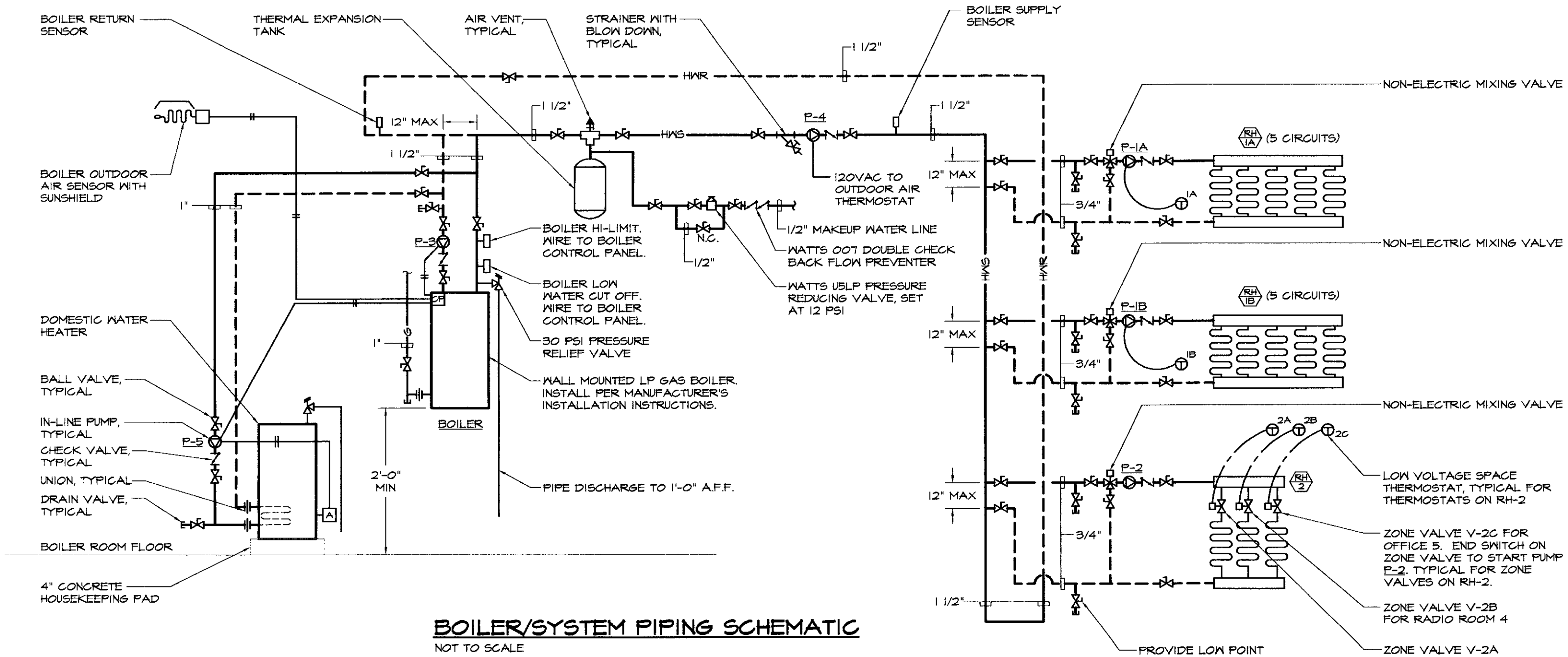
NOTES:
1) PROVIDE WALL SLEEVE, LOW LEAKAGE BACKDRAFT DAMPER, EXPLOSION PROOF MOTOR, SPARK PROOF FAN BLADE, OSHA SIDE MOTOR, GUARD AND WEATHERHOOD WITH BIRDSCREEN. WEATHERHOOD TO BE PROVIDED WITH A BAKED ENAMEL FINISH, COLOR SELECTED BY ARCHITECT.
2) PROVIDE WALL CAP WITH BACKDRAFT DAMPER.

LOUVER SCHEDULE									PLAN SYMBOL	P.#
No.	MANUFACTURER	SERIES	MODEL	SIZE	AIR PAT	DAMPER	FINISH	REMARKS		
L1	RUSKIN	ELF	ELF-STSDX	48"X x 56"	INTAKE	-	B.E.	NOTE 1		

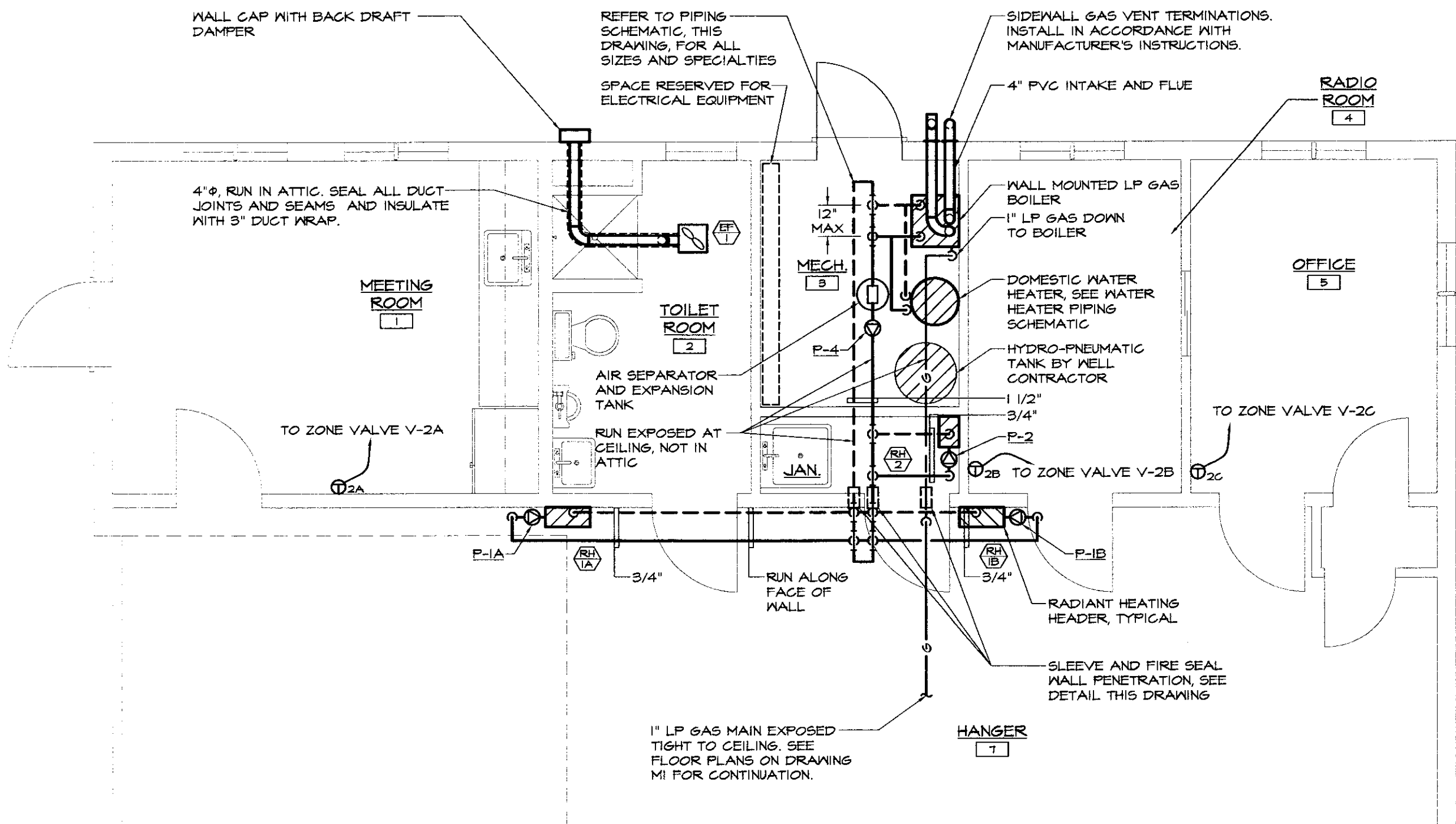
NOTES:
1) COORDINATE EXACT WIDTH TO MATCH WINDOW ABOVE.
2) PROVIDE GALVANIZED BIRDSCREEN.
3) COLOR OF LOUVER TO BE SELECTED BY ARCHITECT.



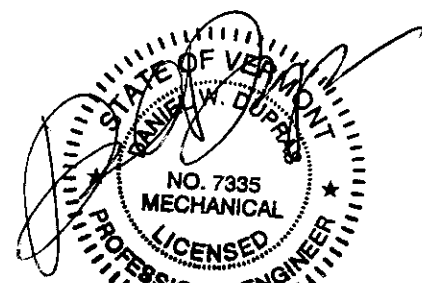
HEATING CONTROL WIRING SCHEMATIC
NOT TO SCALE



BOILER/SYSTEM PIPING SCHEMATIC
NOT TO SCALE



ENLARGED BOILER ROOM PLAN - MECHANICAL
SCALE: 1/4"=1'-0"



NO.	ISSUED FOR	DATE
1	BIDDING & CONSTRUCTION	04/19/05



HEATING, VENTILATION, & AIR CONDITIONING,
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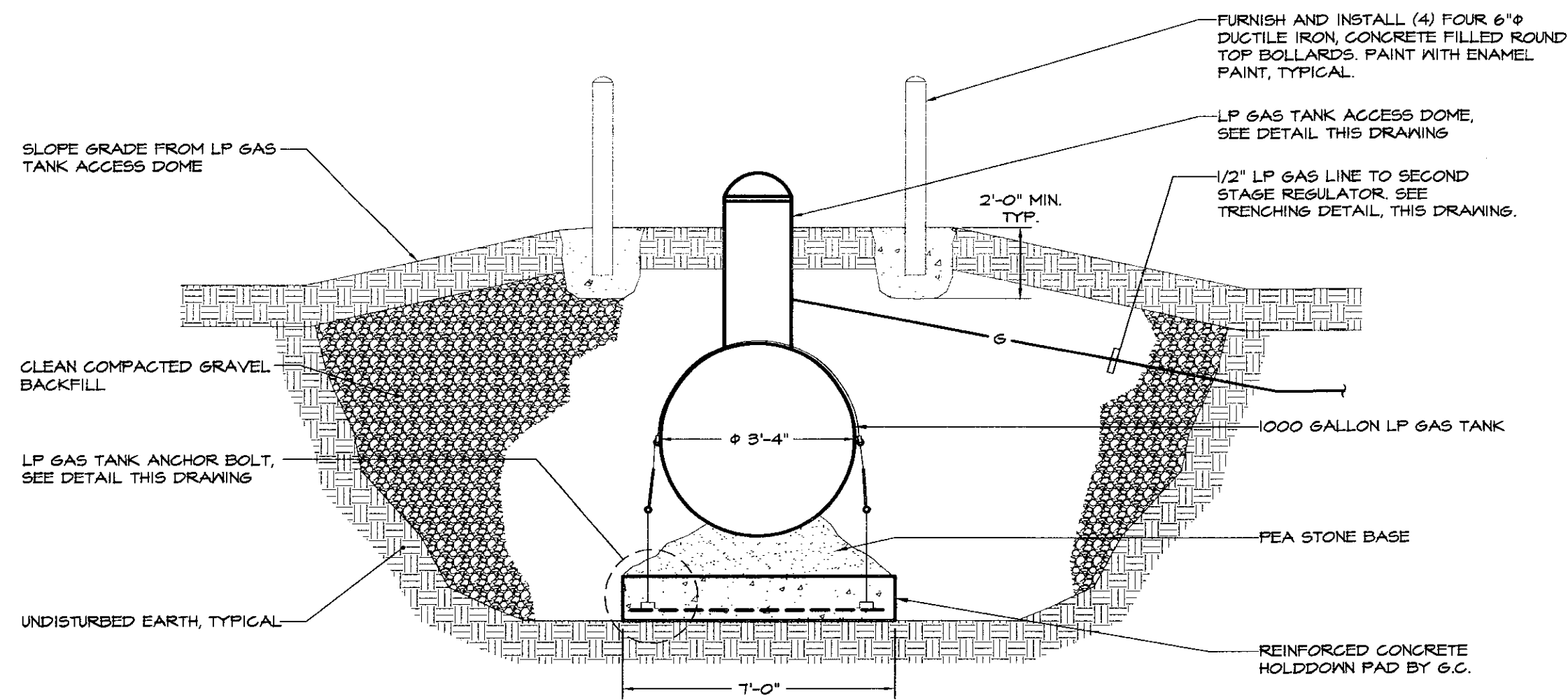
51 KILLINGTON AVENUE,
RUTLAND, VERMONT 05701
TELEPHONE: (802)747-3346
FAX/MODEM: (802)747-3356

ENLARGED BOILER ROOM PLAN - MECHANICAL MECHANICAL DETAILS & SCHEDULES

NEW HANGER
CIVIL AIR PATROL
CALEDONIA COUNTY AIRPORT
LYNDONVILLE, VT

APPR:	DWD	DRAWN:	TDL	SCALE:	AS NOTED	PROJ. NO.	0312-14
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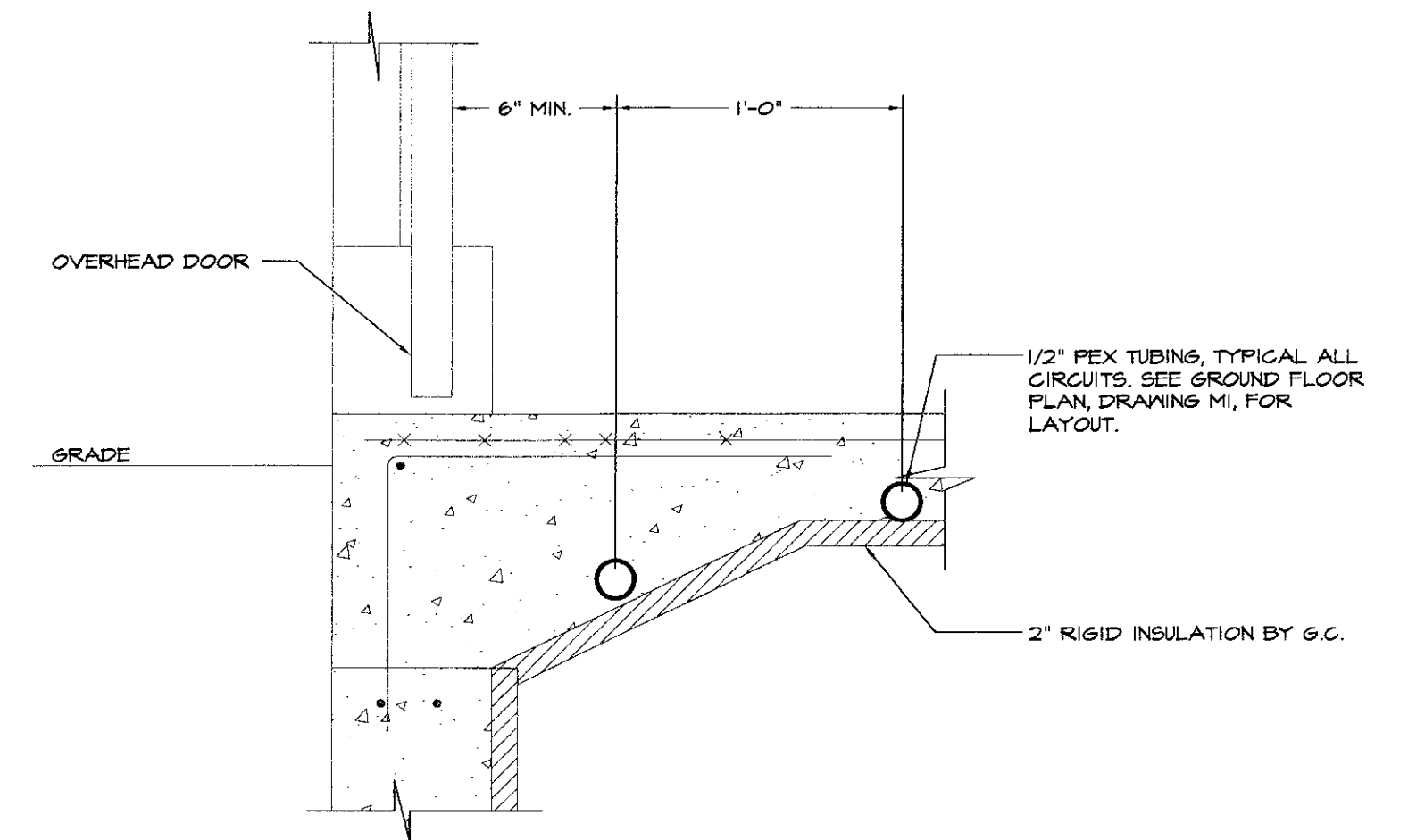
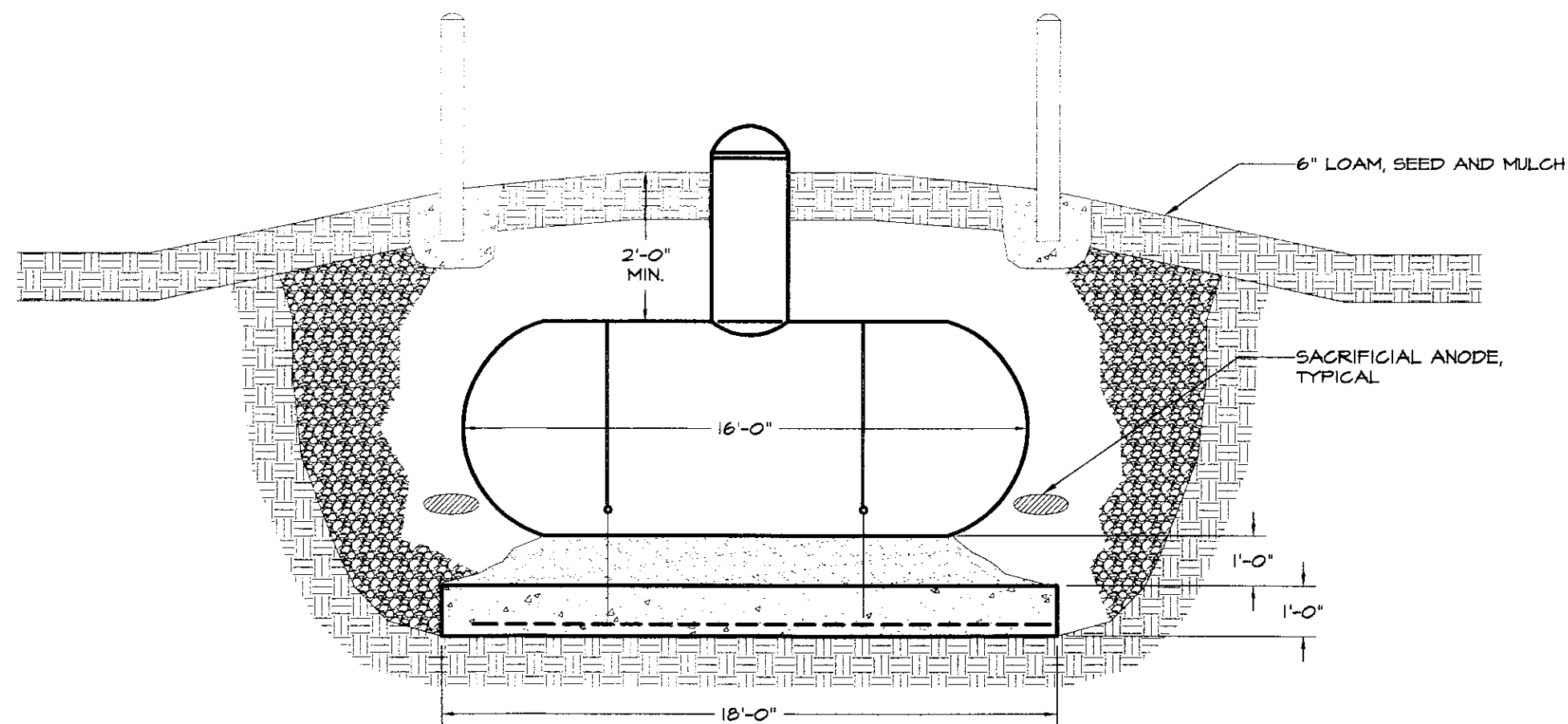
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UNDERGROUND LP GAS TANK DETAILS

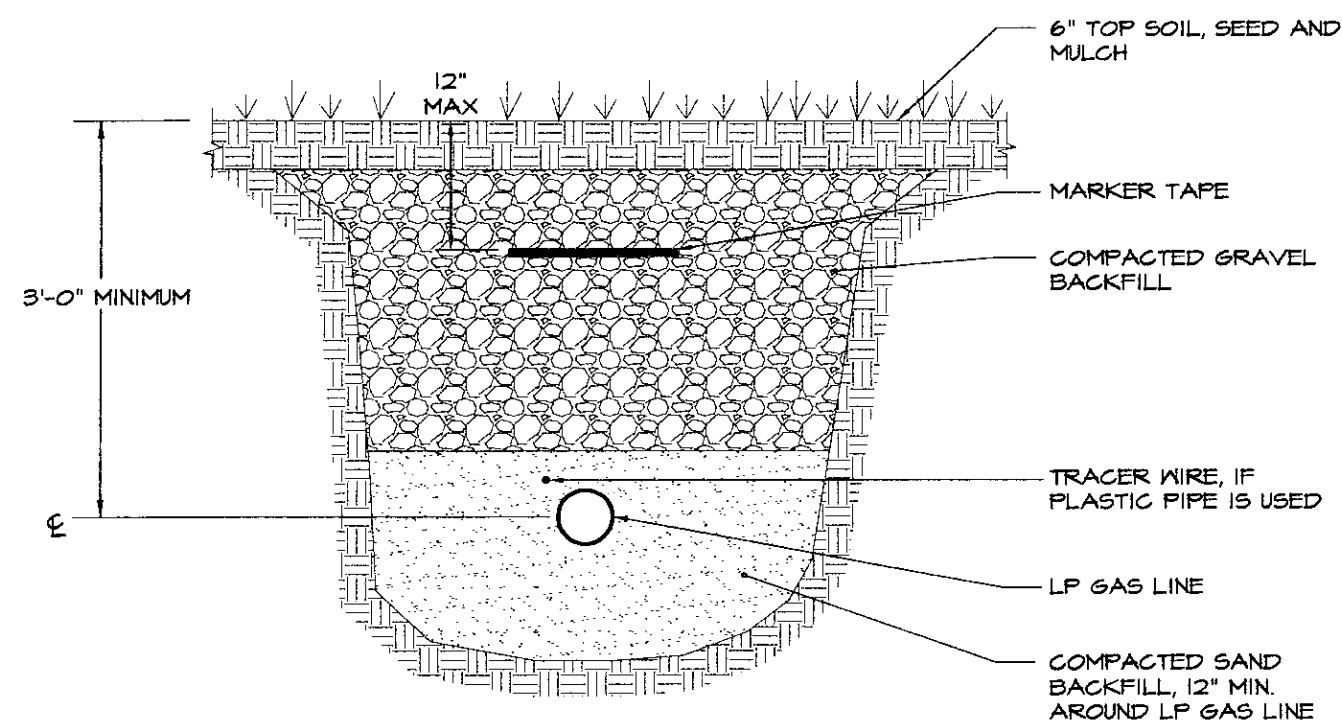
NOT TO SCALE

NOTE: TANK, REGULATORS, PIPING AND ACCESSORIES, INCLUDING FIRST AND SECOND STAGE REGULATORS, TO BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. COORDINATE WITH G.C. FOR REQUIRED FOR REQUIRED EXCAVATION AND BACKFILL.



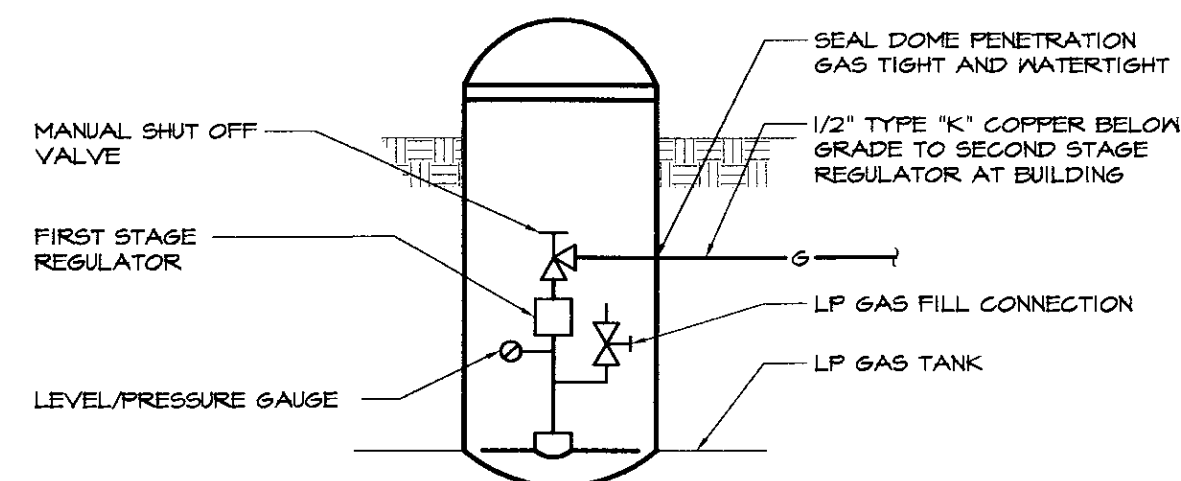
SECTION AT OVERHEAD DOOR (TYP.)

NOT TO SCALE



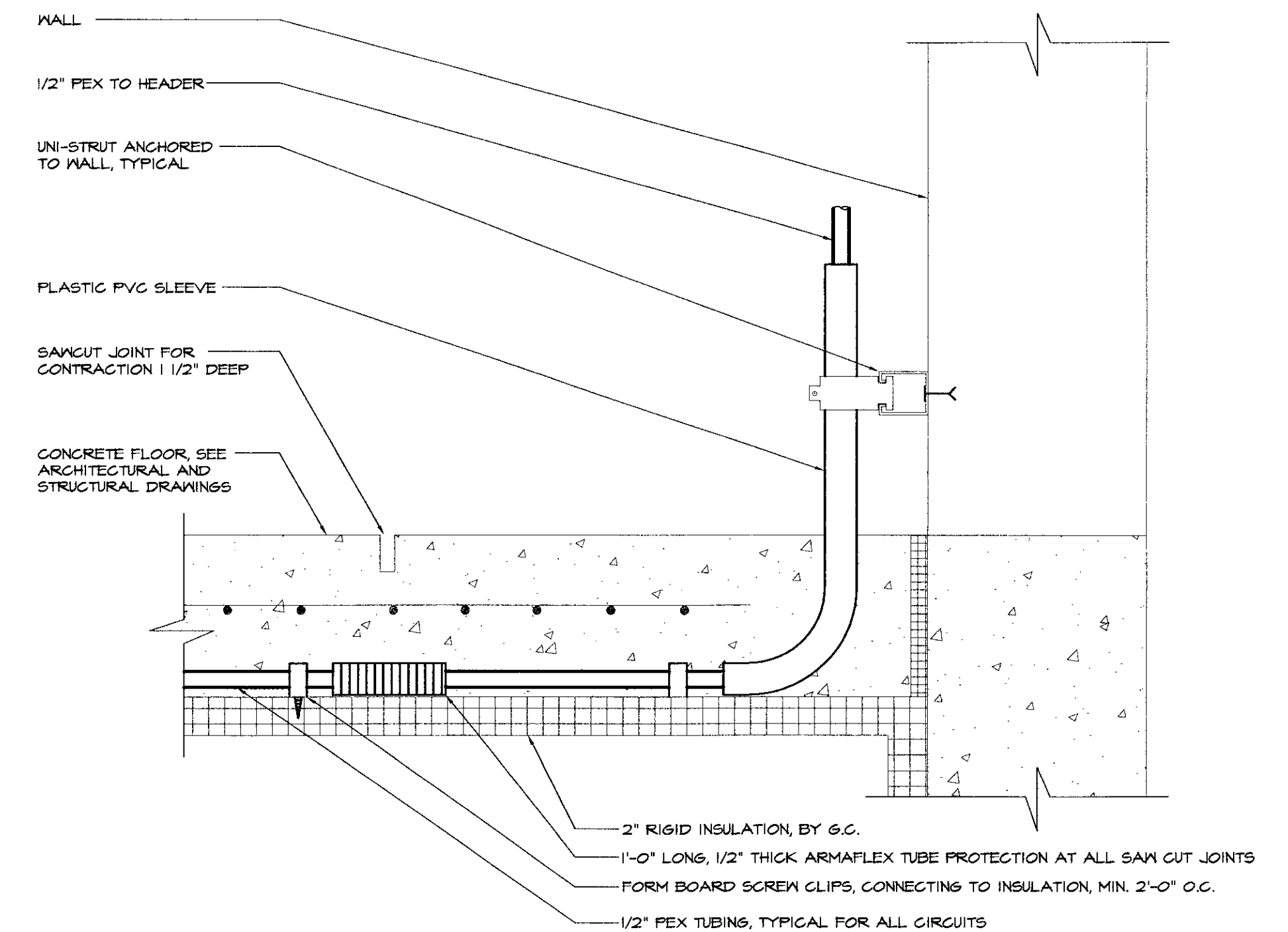
LP GAS SUPPLY PIPE TRENCHING DETAIL

NOT TO SCALE



LP GAS TANK ACCESS DOME DETAIL

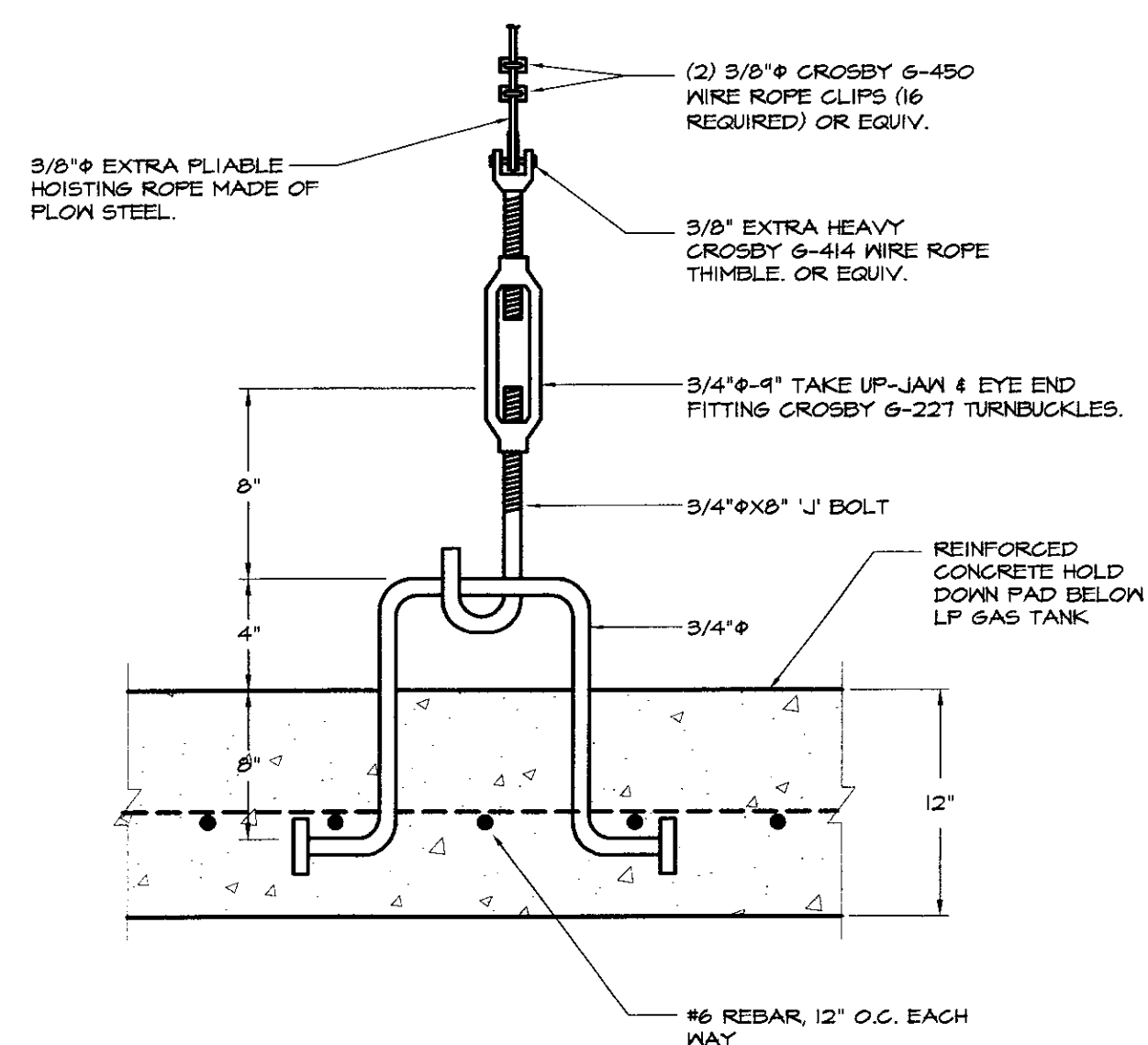
NOT TO SCALE



TYPICAL RADIANT TUBING DETAIL

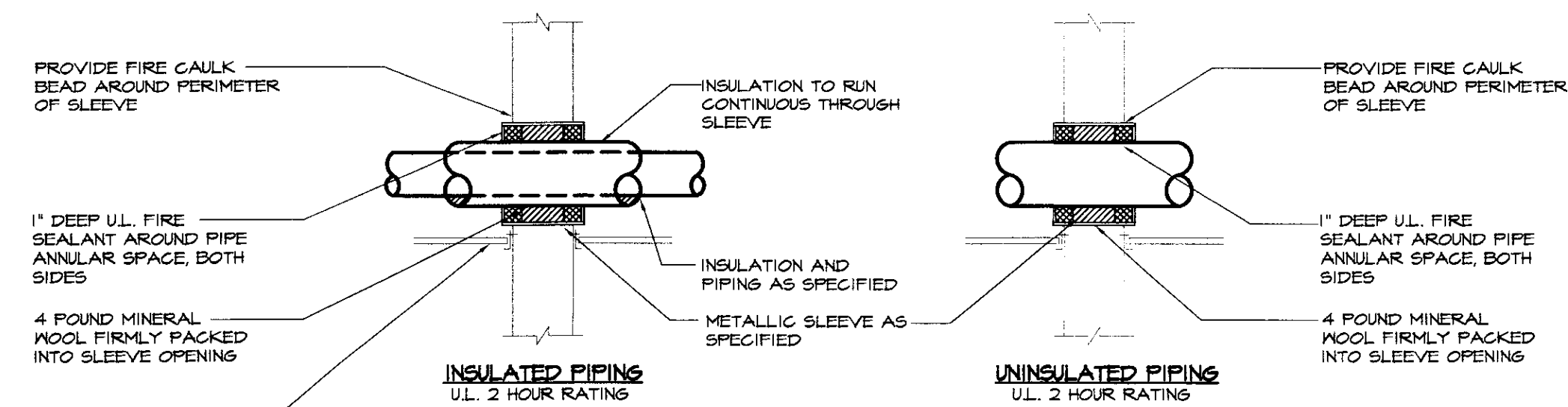
NOT TO SCALE

1. PROVIDE PLASTIC SLEEVE PROTECTION TO WITHIN 6" OF HEADER ASSEMBLY



TANK ANCHOR BOLT DETAIL

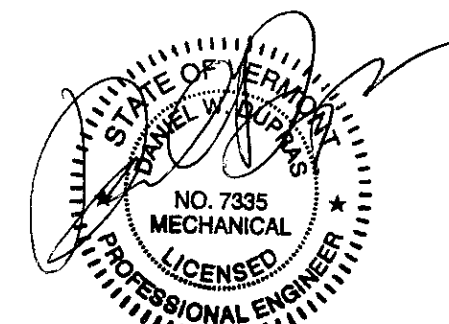
NOT TO SCALE



WALL PIPE PENETRATION DETAILS

NOT TO SCALE

NOTE: 1) FOLLOW FIRE SEALANT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED. 2) ALL WALL PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL. 3) DETAIL BASED ON STI 'SPEC-SEAL' FIRE STOPPING PRODUCTS, ALTERNATE MANUFACTURER'S INSTALLATION REQUIREMENTS MAY VARY.



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MECHANICAL DETAILS

NEW HANGER
CIVIL AIR PATROL
CALEDONIA COUNTY AIRPORT
LYNDONVILLE, VT

M
3

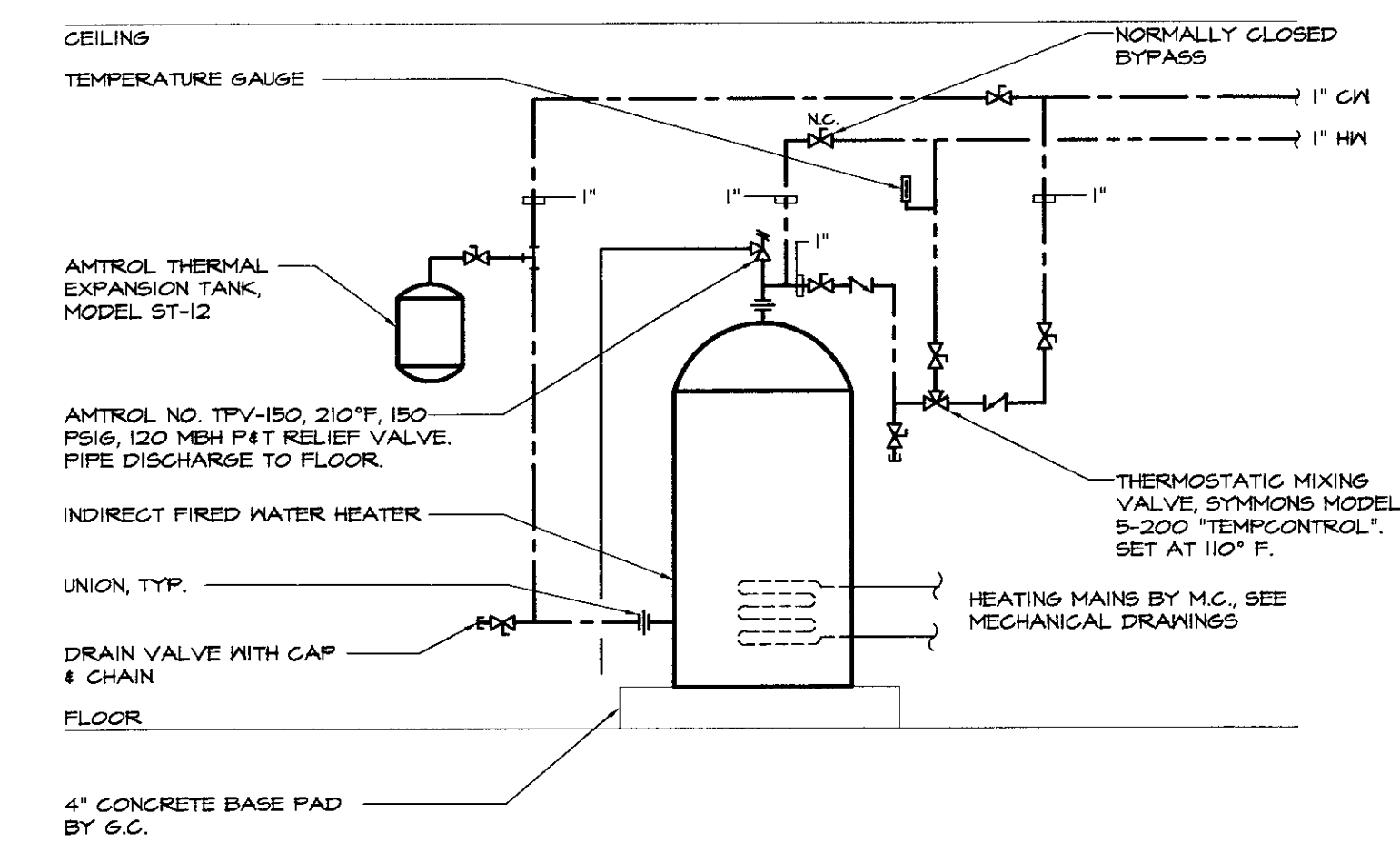
APPR: DWD DRAWN: TDL/RRR SCALE: AS NOTED PROJ. NO. 0912-14

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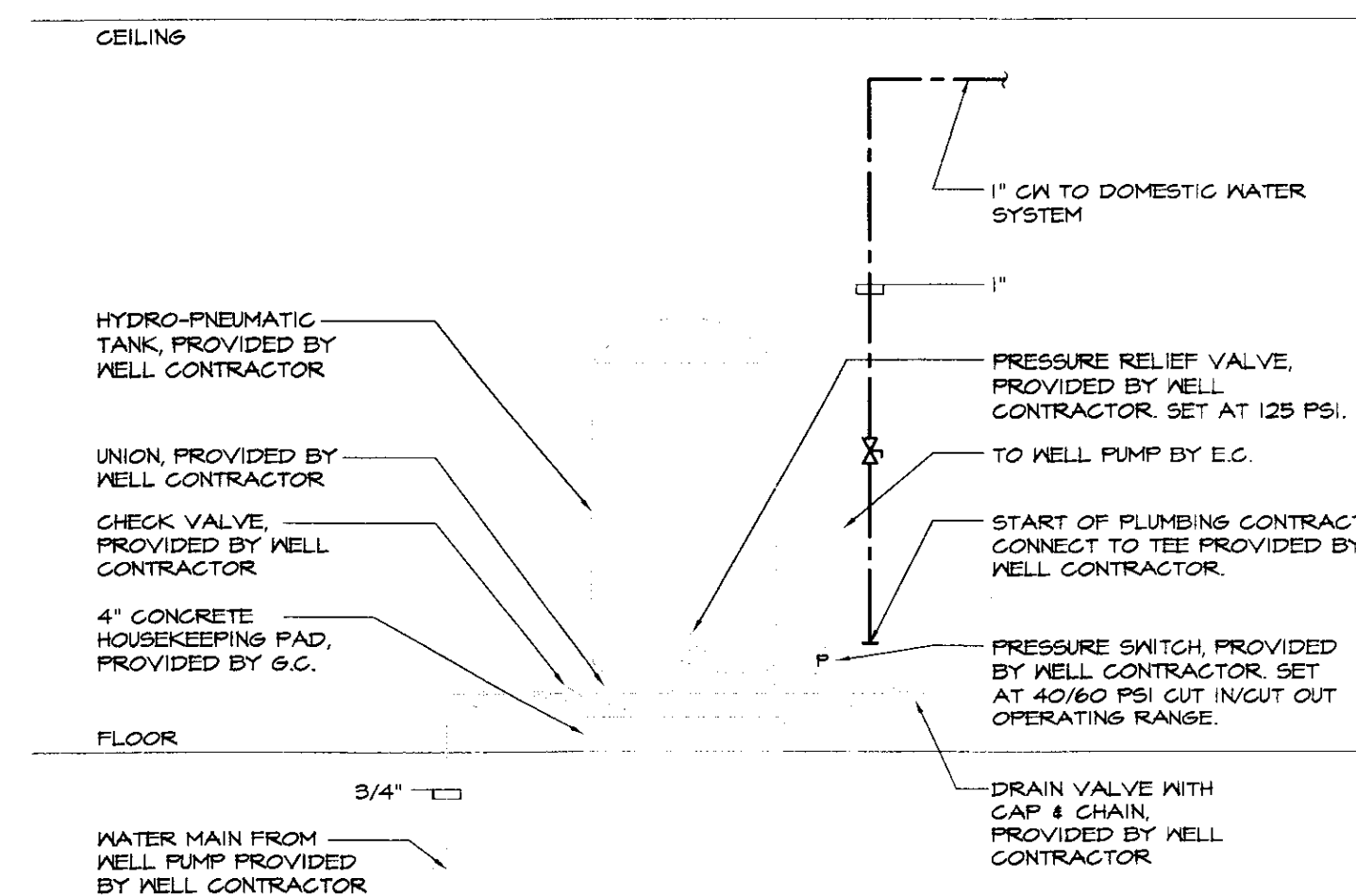
PLUMBING FIXTURE CONNECTION SCHEDULE								PLAN SYMBOL P-1
No.	ITEM	SOIL	WASTE	VENT	CN	HM	TRAP	REMARKS
P-1	ADA WATER CLOSET	3"	-	2"	1/2"	-	INTEGRAL	-
P-2	ADA LAVATORY	-	1 1/2"	1 1/2"	1/2"	1/2"	1 1/4" X 1 1/2"-P	-
P-3	ADA URINAL	2"	-	1 1/2"	3/4"	-	INTEGRAL	-
P-4	ADA SHOWER	-	2"	1 1/2"	1/2"	1/2"	2"-P	-
P-5	COUNTER SINK	-	1 1/2"	1 1/2"	1/2"	1/2"	1 1/2"-P	-
P-6	SERVICE SINK	-	2"	1 1/2"	1/2"	1/2"	2"-P	-

PLUMBING LEGEND AND ABBREVIATIONS

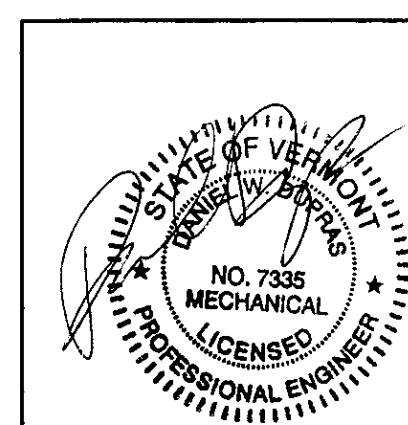
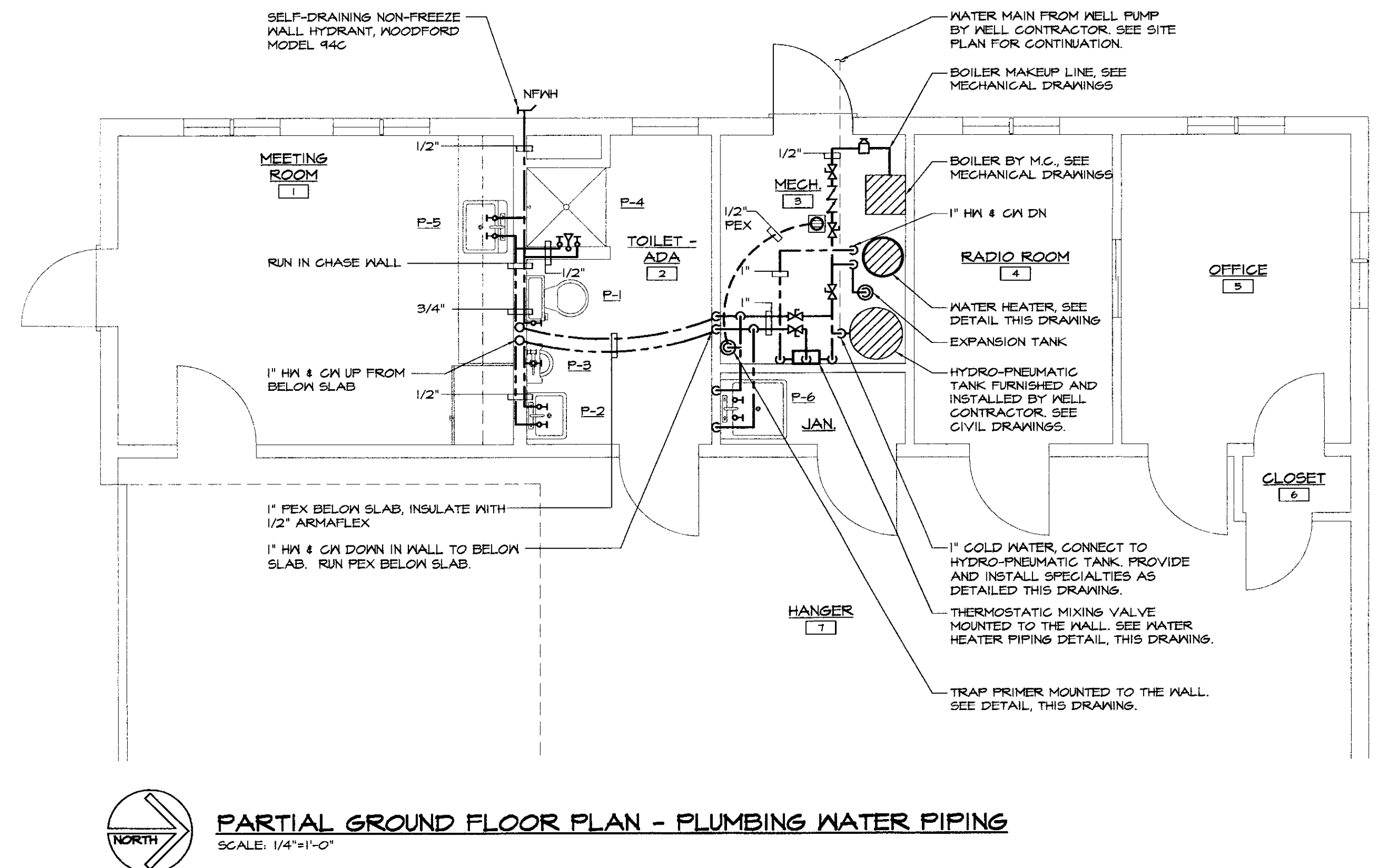
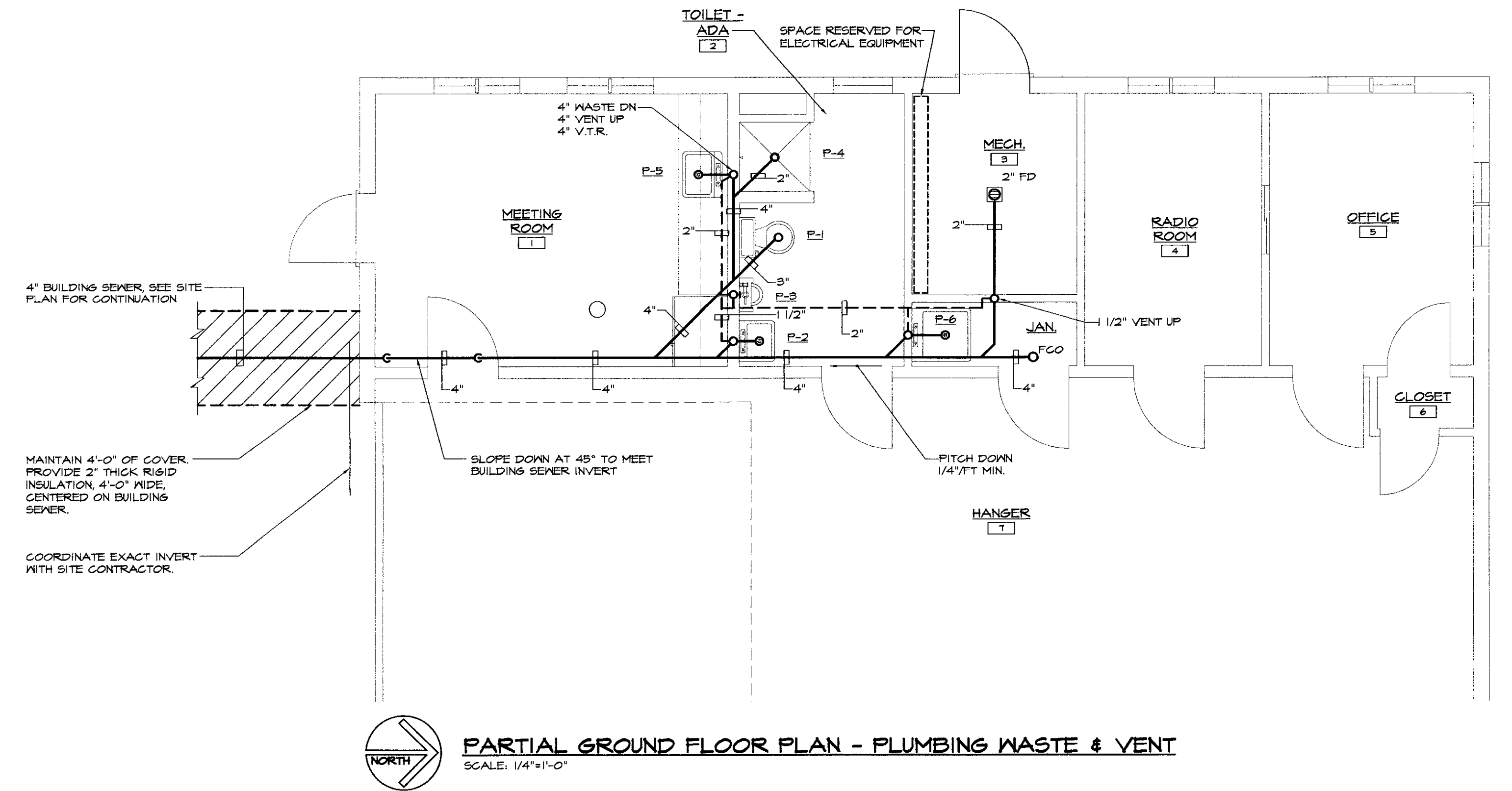
	SANITARY PIPING		PRESSURE SWITCH
	VENT PIPING		PRESSURE RELIEF VALVE
	COLD WATER PIPING		THERMOSTATIC MIXING VALVE
	HOT WATER PIPING (110°F)		TEMPERATURE GAUGE
	PRIMER PIPING		NON-FREEZE WALL HYDRANT
	PIPE RISER		FLOOR DRAIN
	PIPE DROP		MECHANICAL CONTRACTOR
	PIPE CAP		PLUMBING CONTRACTOR
	PIPE UNION		ELECTRICAL CONTRACTOR
	BALL VALVE		GENERAL CONTRACTOR
	FIXTURE STOP		
	CHECK VALVE		
	BACKFLOW PREVENTER, PRZ=REDUCED PRESSURE ZONE		
	FLOOR CLEANOUT		
	PRESSURE REDUCING VALVE		



DOMESTIC WATER HEATER PIPING DETAIL
NOT TO SCALE



DOMESTIC WATER HYDRO-PNEUMATIC TANK DETAIL
NOT TO SCALE



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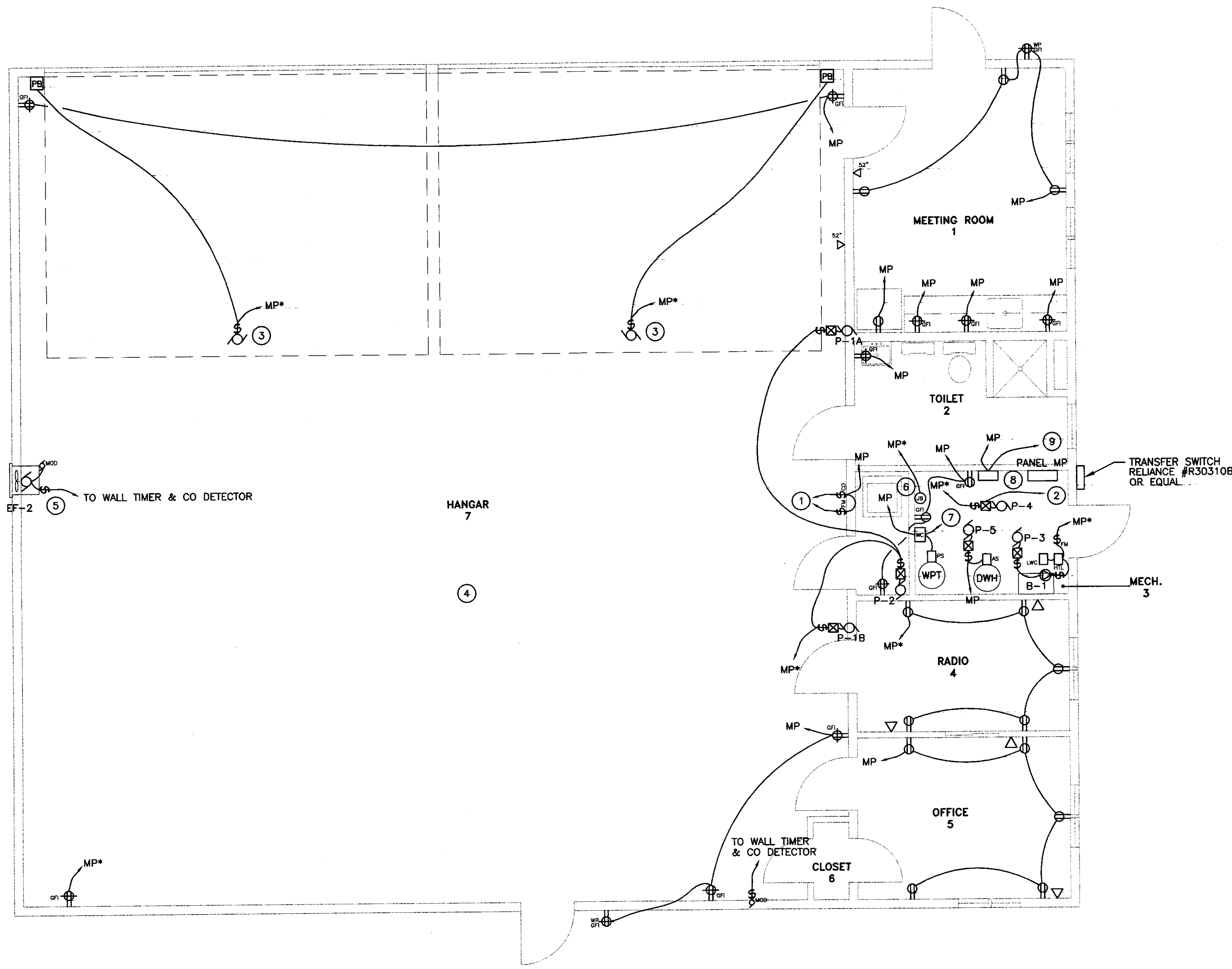
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PARTIAL GROUND FLOOR PLUMBING PLANS,
PLUMBING DETAILS & SCHEDULES

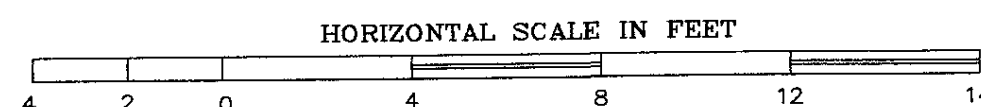
NEW HANGER
CIVIL AIR PATROL
CALEDONIA COUNTY AIRPORT
LYNDONVILLE, VT

P
1

APPR: DWD DRAWN: KPG SCALE: AS NOTED PROJ. NO. 0912-14



ELECTRICAL POWER PLAN
SCALE: 1/4" = 1'-0"



GENTRAN PANEL SCHEDULE							
PANEL: PROTRAN R30310B				LOCATION: OUTSIDE ELECTRICAL ROOM			
FED FROM PANEL MP				MOUNTING: SURFACE			
& PORTABLE GENERATOR							
CKT NO.	KW LOAD	DESCRIPTION	BREAKER P	BREAKER AMP	DESCRIPTION	KW LOAD	CKT NO.
1		RECEPTACLES	1	15	RADIO OFFICE		2
3		RECEPTACLES	1	15	OVERHEAD DOOR		4
5		BOILER	1	15	LIGHTS		6
7		CIRC PUMP P-4	1	15	HEATING CONTROLS		8
9		CIRC PUMPS P-1A, P-1B, P-2	1	15	OVERHEAD DOOR		10

KEYED NOTES:

- TO EXHAUST FAN & INTAKE LOUVER. CO SENSOR & TIMER SWITCH PROVIDED BY MC, WIRED BY EC.
- 120V LINE TO OUTDOOR AIR SENSOR, COORD. WITH MC.
- OVERHEAD DOOR OPENER. PROVIDE WIRING TO REMOTE DOOR OPENING STATION. COORDINATE LOCATION & WIRING REQUIREMENTS WITH OWNER & EQUIPMENT SUPPLIER.
- ALL WIRING IN THIS AREA SHALL CONFORM TO NEC ARTICLE #513. ALL RECEPTACLES SHALL BE MOUNTED AT 20" AFF.
- PROVIDE E-Y FITTING AT MOTOR.
- PROVIDE 120V CIRCUIT & JB FOR USE BY MC FOR CONTROL WIRING. COORD. EXACT LOCATION WITH MC.
- 30-AMP, 240V CIRCUIT TO DEEP WELL PUMP, REFER TO SITE PLAN.
- TELEPHONE TERMINATION AREA, CONDUIT TERMINATION AREA INCLUDING SPARE.
- SEWER PUMP CONTROLLER, PROVIDE SERVICE TO EXTERIOR SEWER PUMP, REFER TO SITE PLAN.

GENERAL NOTES:

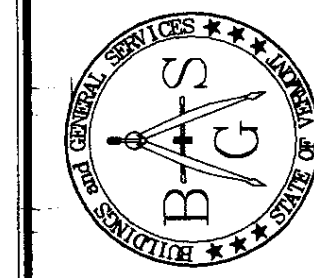
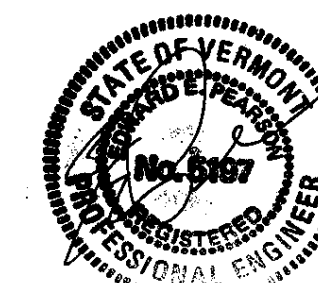
- ANY PLACE WHERE THE CONTRACTOR PENETRATES, CUTS AND/OR REMOVES WALLS, CEILINGS, OR WOODWORK, CONTRACTOR IS TO REPLACE, PATCH AND PAINT FINISH SURFACES TO ORIGINAL FINISHES.
- FIELD VERIFY ALL DIMENSIONS BEFORE COMMENCEMENT OF WORK. NOTIFY ENGINEER OF ANY ERRORS.
- EC TO PROVIDE AND INSTALL ALL DISCONNECT SWITCHES, MC TO SUPPLY ALL MOTOR STARTERS, EC TO INSTALL.

ELECTRICAL LEGEND

- FLUORESCENT FIXTURE
- LIGHT FIXTURE
- EXIT LIGHT
- EMERGENCY LIGHT
- SWITCH - SINGLE POLE
- SWITCH - SINGLE POLE WITH GAS BURNER PLATE
- SWITCH - 3-WAY
- SWITCH - 4-WAY
- SWITCH - TIMER, INTERMATIC FF60M
- SWITCH - OCCUPANCY SENSOR
- SWITCH - FAN SPEED CONTROL, DAYTON 4C929
- FIREMATIC SWITCH, PROVIDED AND INSTALLED BY EC
- PUSH-BUTTON STATION, PROVIDED BY ES, WIRED BY EC.
- MOTOR STARTER PROV. BY MC, INSTALLED BY EC
- SAFETY DISCONNECT PROV. AND INSTALLED BY EC.
- PANEL
- BRANCH CIRCUIT
- JUNCTION BOX
- DUPLEX RECEPTACLE
- QUAD RECEPTACLE
- DUPLEX RECEPTACLE - COUNTER HEIGHT
- DUPLEX RECEPTACLE-GFCI PROTECTED
- SPECIAL PURPOSE OUTLET, REFER TO SCHEDULE
- WP WEATHERPROOF, NEMA 3R RATED
- AFF ABOVE FINISH FLOOR
- EC ELECTRICAL CONTRACTOR (DIVISION 16)
- MC MECHANICAL CONTRACTOR (DIVISION 15)
- GC GENERAL CONTRACTOR
- ES EQUIPMENT SUPPLIER
- TYP. TYPICAL OF ALL
- LEC LYNDONVILLE ELECTRIC COMPANY
- NEC NATIONAL ELECTRIC CODE
- MTS MANUAL TRANSFER SWITCH
- HTL HIGH TEMP. LIMIT SWITCH, PROV. BY MC, WIRED BY EC
- LWC LOW-WATER CUTOFF, PROV. BY MC, WIRED BY EC
- MOTOR
- MOTOR-OPERATED DAMPER
- PS PRESSURE SWITCH
- PHONE LOCATION (4" SQUARE BOX WITH 3/4" CONDUIT TO TELEPHONE TERMINATION AREA. PROVIDE EXTENSION RINGS (MUD RINGS) AS REQUIRED.
- PC PHOTOCELL
- TC-1 TIMECLOCK, 2-CIRCUIT, DIGITAL, ASTRONOMICAL, PROGRAMMABLE

PANEL: MP				LOCATION: BREAK ROOM			
AMPS: 150 MAIN CIRCUIT BREAKER				120/240 VOLTS 1 PHASE 3 WIRE			
AMPS FAULT CURRENT WITHSTAND: 10K				FLUSH MOUNT			
NOTES: SERVICE RATED TOTAL LOAD: 40.5 KW							
NO	BREAKER AMPS	KW LOAD	DESCRIPTION	NO	BREAKER AMPS	KW LOAD	DESCRIPTION
1	20*	0.2	RECEPTACLES GFI	2	30	3.5	WATER WELL
3	20	0.4	RECEPTACLES GFI	4	2P		
5	20	0.6	RECEPTACLES GFI	6	20*	0.7	EXHAUST FAN
7	20*	0.5	HEATING CONTROL POWER	8	20*	1.5	HANGAR DOOR
9	20	0.6	BATHROOM, RECEPTACLES	10	30	3.5	SEWER PUMP
11	20	0.7	RECEPTACLES/BREAK AREA	12	2P		
13	20	1.5	REFRIGERATOR	14	20*	1.5	HANGAR DOOR
15	20	1.5	KITCHEN COUNTERTOP	16	20*	0.5	OFFICE LIGHTING
17	20	1.5	KITCHEN COUNTERTOP	18	20*	1.2	LIGHTING & PADDLE FANS
19	20	1.5	KITCHEN COUNTERTOP	20	20	1.7	BAY LIGHTING
21	20*	1.5	BOILER B-1/PUMP P-3	22	20	0.5	OUTDOOR BUILDING LIGHTING
23	20*	1.2	CIRC. PUMPS P-1A, P-1B, P-2	24	20	0.6	MECH. ROOM RECEPTACLES
25	20*	0.4	PUMP P-4	26	20*	1.1	RADIO OFFICE
27	20	0.4	PUMP P-5	28	20		SPARE
29	20	1.1	OFFICE 5	30	20		SPARE
31			SPACE	32			SPACE
33				34			
35				36			
37				38			
39				40			
41				42			

* DENOTES CONNECTION THRU GENERATOR TRANSFER SWITCH



STATE OF VERMONT
Department of Buildings
and General Services
Agency of Administration
Montpelier, Vermont



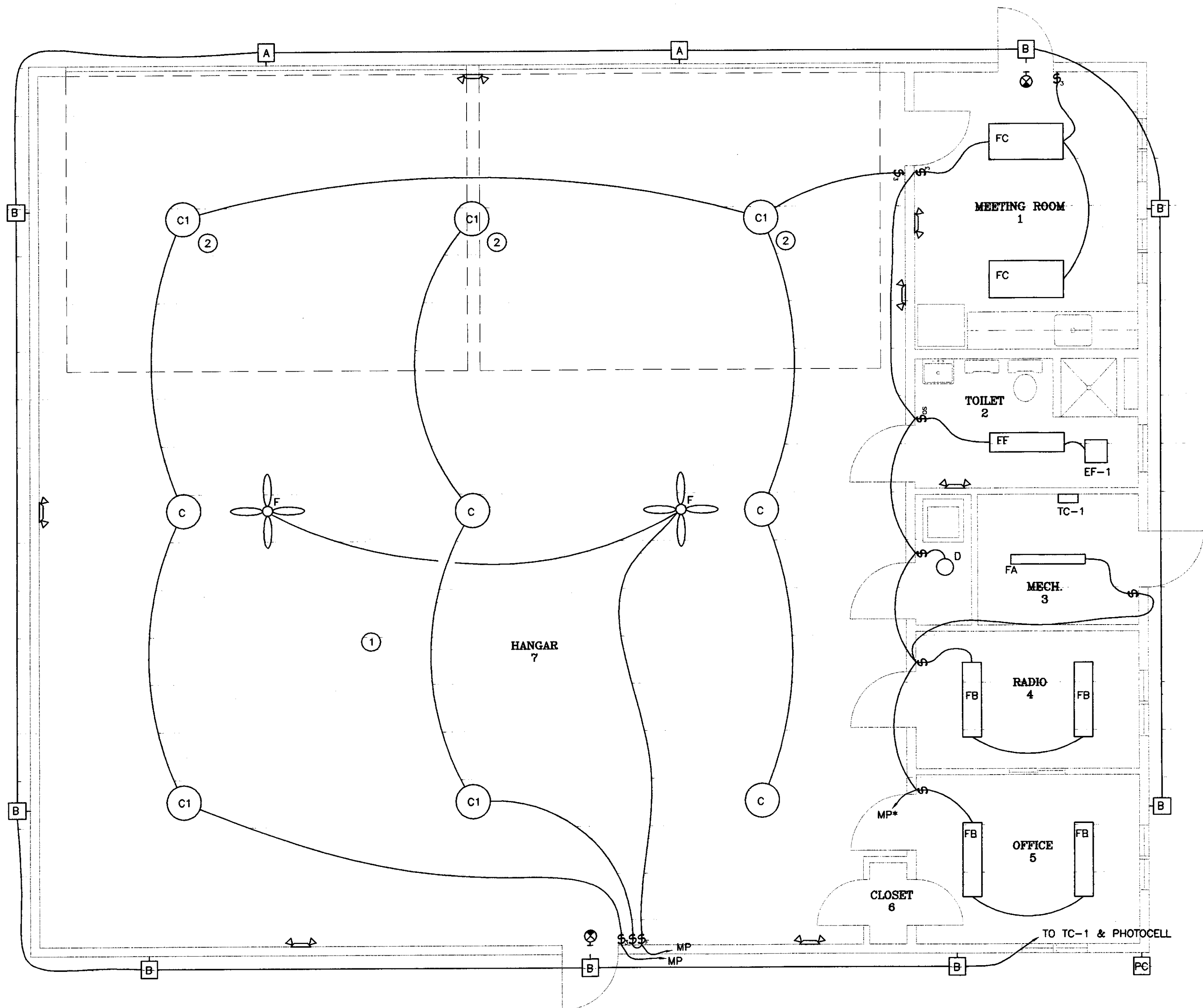
Pearson & Associates
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EMAIL: pearson@stowe.net

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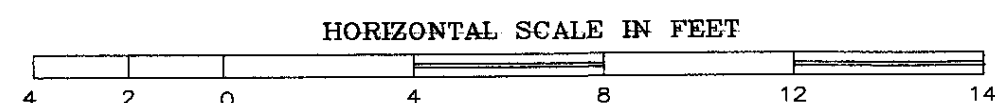
REVISIONS
SCALE: AS SHOWN
DATE: JULY 2005
DRAWN BY: ASC
APPR. BY: E. E. P.

NEW HANGAR
FOR CIVIL
AIR PATROL

ELECTRICAL
PLAN
E-1
1 OF 3



ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"

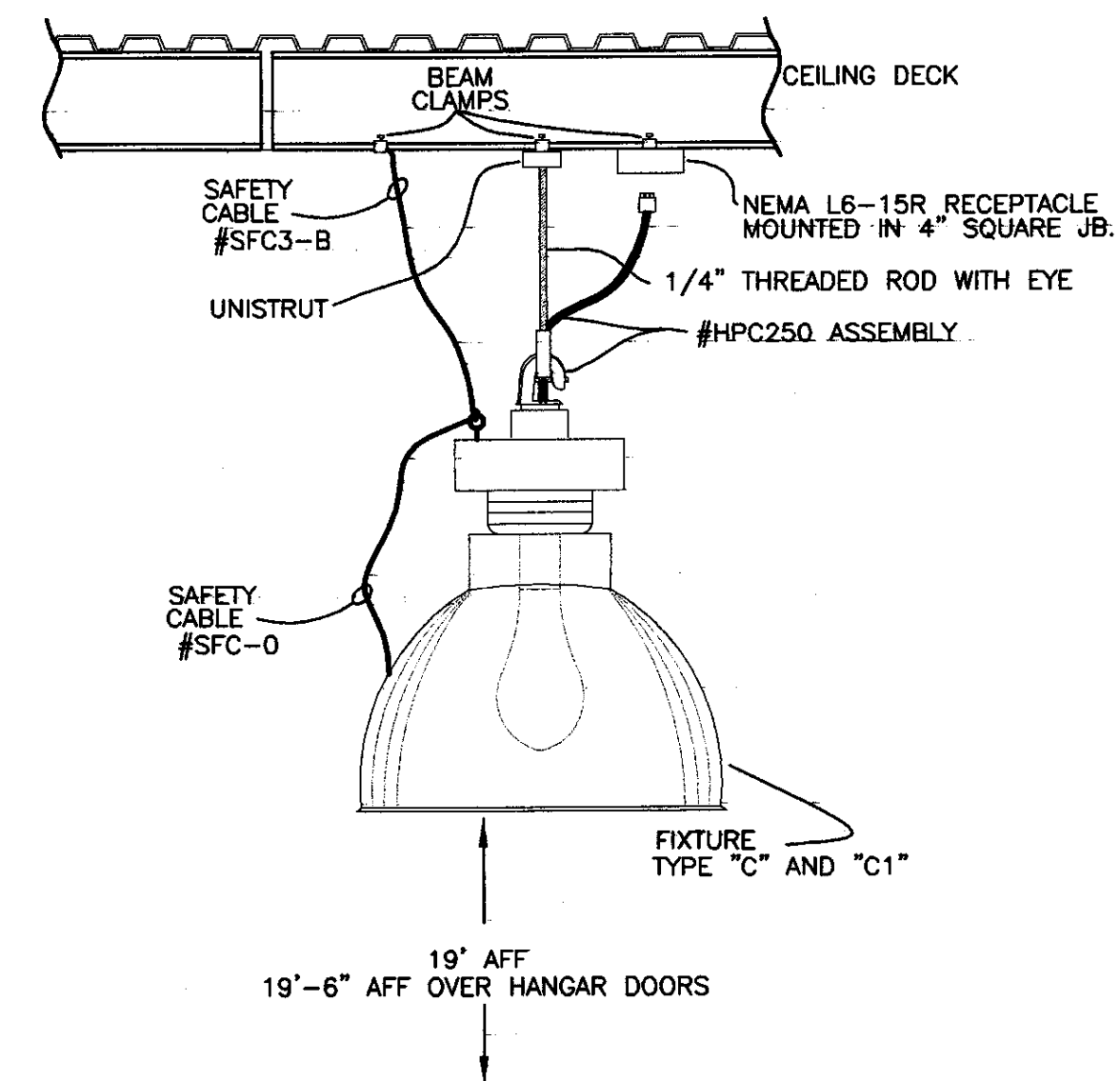


GENERAL NOTES:

- ANY PLACE WHERE THE CONTRACTOR PENETRATES, CUTS AND/OR REMOVES WALLS, CEILINGS, OR WOODWORK, CONTRACTOR IS TO REPLACE, PATCH AND PAINT FINISH SURFACES TO ORIGINAL FINISHES.
- FIELD VERIFY ALL DIMENSIONS BEFORE COMMENCEMENT OF WORK. NOTIFY ENGINEER OF ANY ERRORS.
- EC TO PROVIDE AND INSTALL ALL DISCONNECT SWITCHES, MC TO SUPPLY ALL MOTOR STARTERS, EC TO INSTALL.

KEYED NOTES:

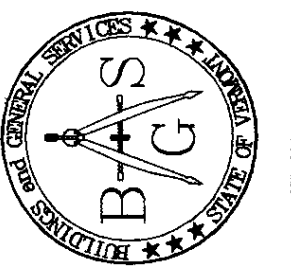
- ALL WIRING IN THIS AREA SHALL CONFORM TO NEC ARTICLE #513.
- FIXTURES OVER HANGAR DOORS MOUNTED AT 19'-6" AFF, ALL OTHERS AT 19' AFF.



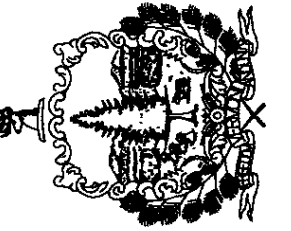
TYPE "C" & "C1" FIXTURE MOUNTING DETAIL
NO SCALE

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER & MODEL	MOUNTING	LAMPS	REMARKS
A	RUUD MAC2410-D, WM-3	SURFACE	(1)-100W MH	MOUNT AT 14' AFG
B	RUUD E4405D	SURFACE	(1)-50W MH	
C	GE V2G-25P0A-4EA5 SFC-0 SFC3-B HCP250	PENDANT	(1)-250W MH COATED PULSE START	MOUNT AT 14' AFF PULSE START
C1	GE V2G-25P0A-4EA5Q SFC-0 SFC3-B HCP250	PENDANT	(1)-250W MH COATED PULSE START	SAME AS ABOVE WITH QUARTZ RE-STRIKE
D	PRESOLITE 9424-13 NPF	SURFACE	(1)-13W TT	
F	DAYTON 4C853 W/4C929 CONTROL	SURFACE		MOUNT AT 14' AFF
FA	METALUX DIM-232-120-EB81	CHAIN HUNG	(2)-F032T8 3500 K	
FB	METALUX WS332A-120-EB81	SURFACE	(3)-F032T8 3500 K	
FC	METALUX 2M-332PB1S-120-EB82	SURFACE	(3)-F032T8 3500 K	DUAL LEVEL LIGHTING
FF	METALUX WS232A-120-EB81	SURFACE	(2)-F032T8 3500 K	
EF-1	EXHAUST FAN - PROVIDED & INSTALLED BY MC			WIRING BY EC
☐	SURELITE CC4-WH-NICAD	SURFACE	INCLUDED	CEILING OR WALL MOUNT
⊗	SURELITE CCX-7270-RWH120	SURFACE	INCLUDED	RED LETTERING



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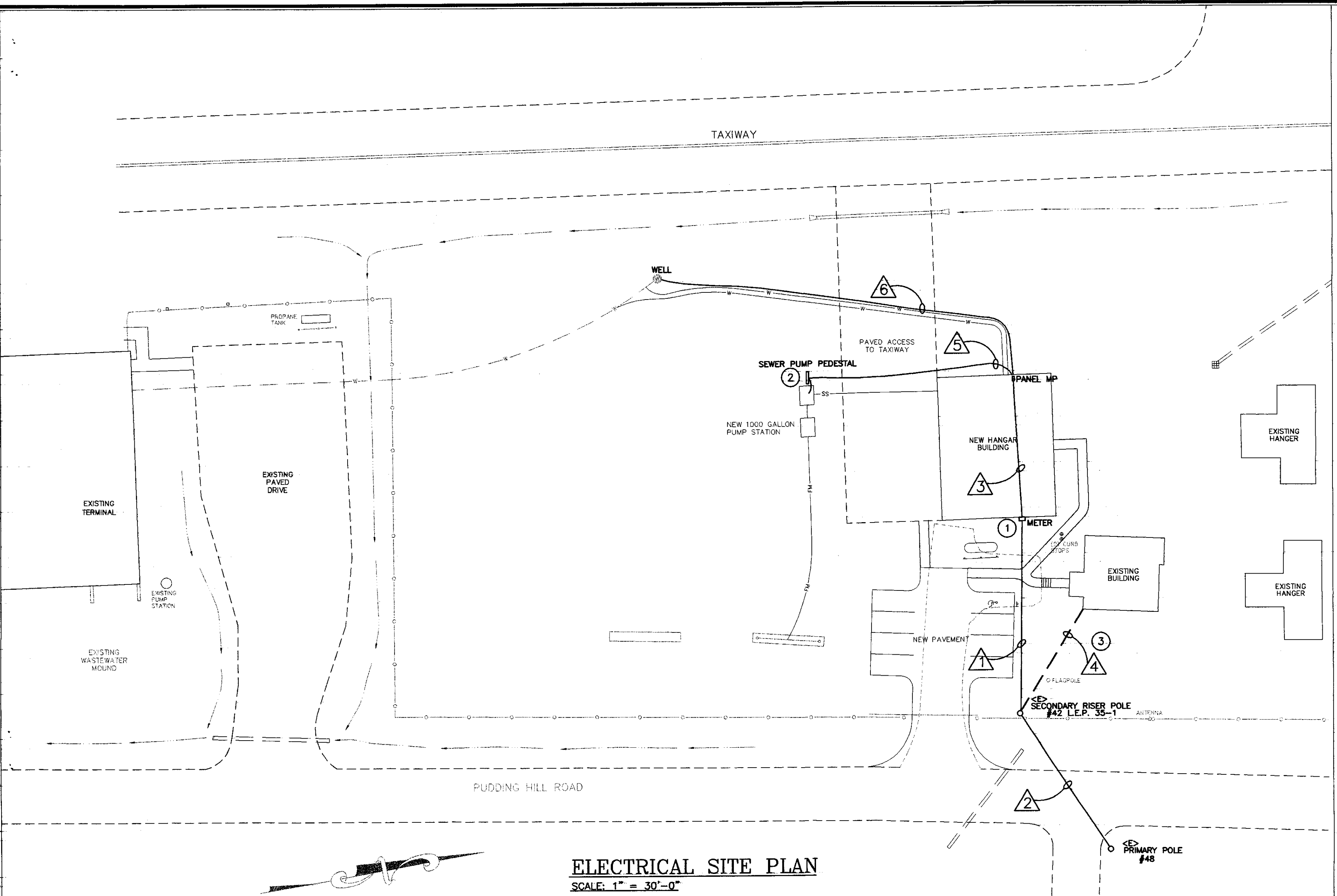
NEW HANGAR
FOR CIVIL
AIR PATROL

LIGHTING
PLAN

E-2

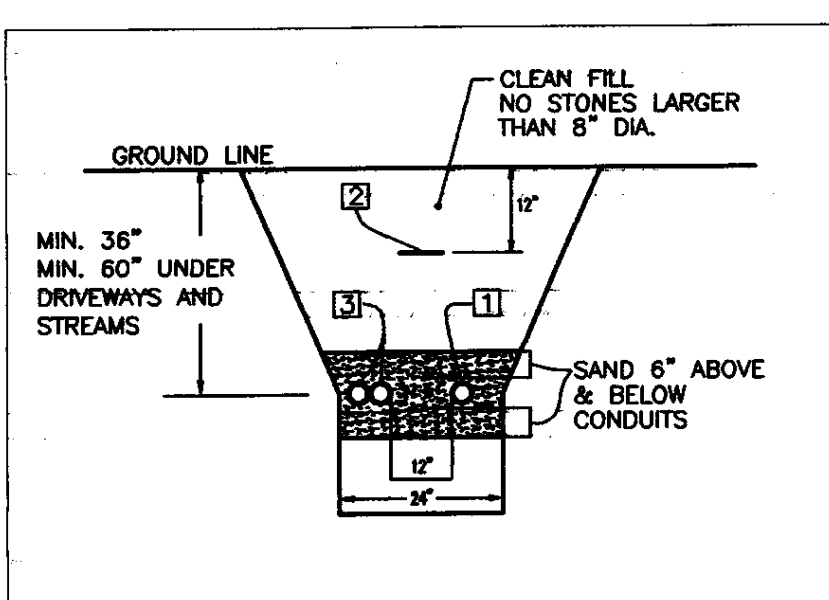
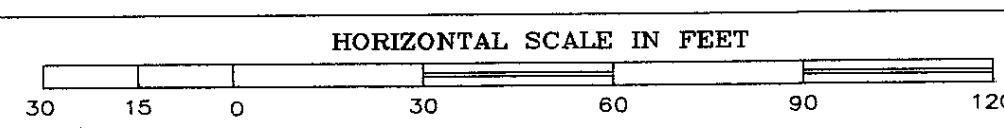
2 OF 3





ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"

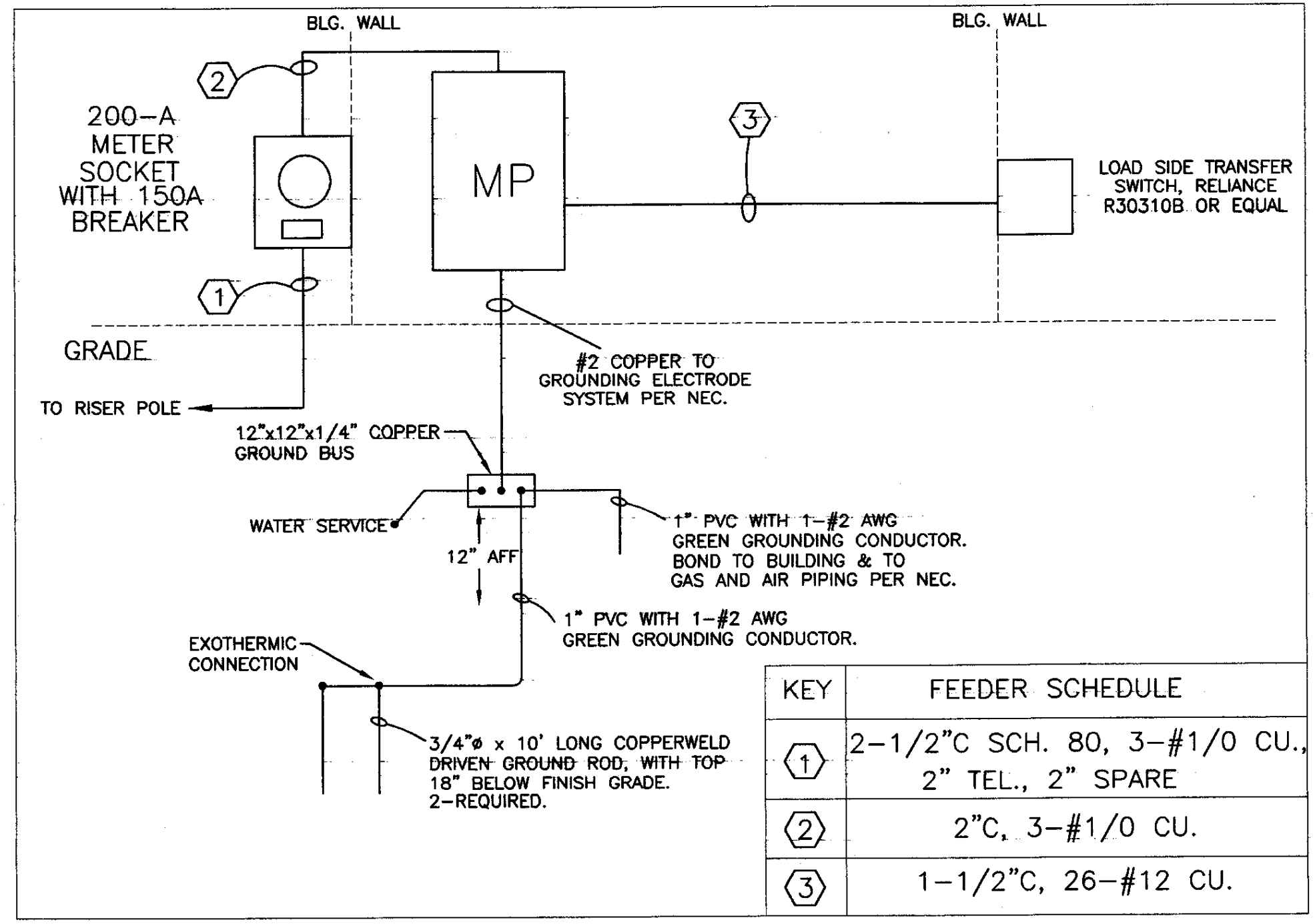
KEY	FEEDER SCHEDULE
①	2-1/2"C, 3-#1/0 CU., 2"C TEL., 2"C SPARE
②	EXISTING OVERHEAD
③	2"C, 3-#1/0 CU., 2"C TEL., 2"C SPARE
④	OVERHEAD LINES TO BE REMOVED POLE BY L.E.C.
⑤	1"C, 5-#12CU.
⑥	1"C, 3-#8CU.



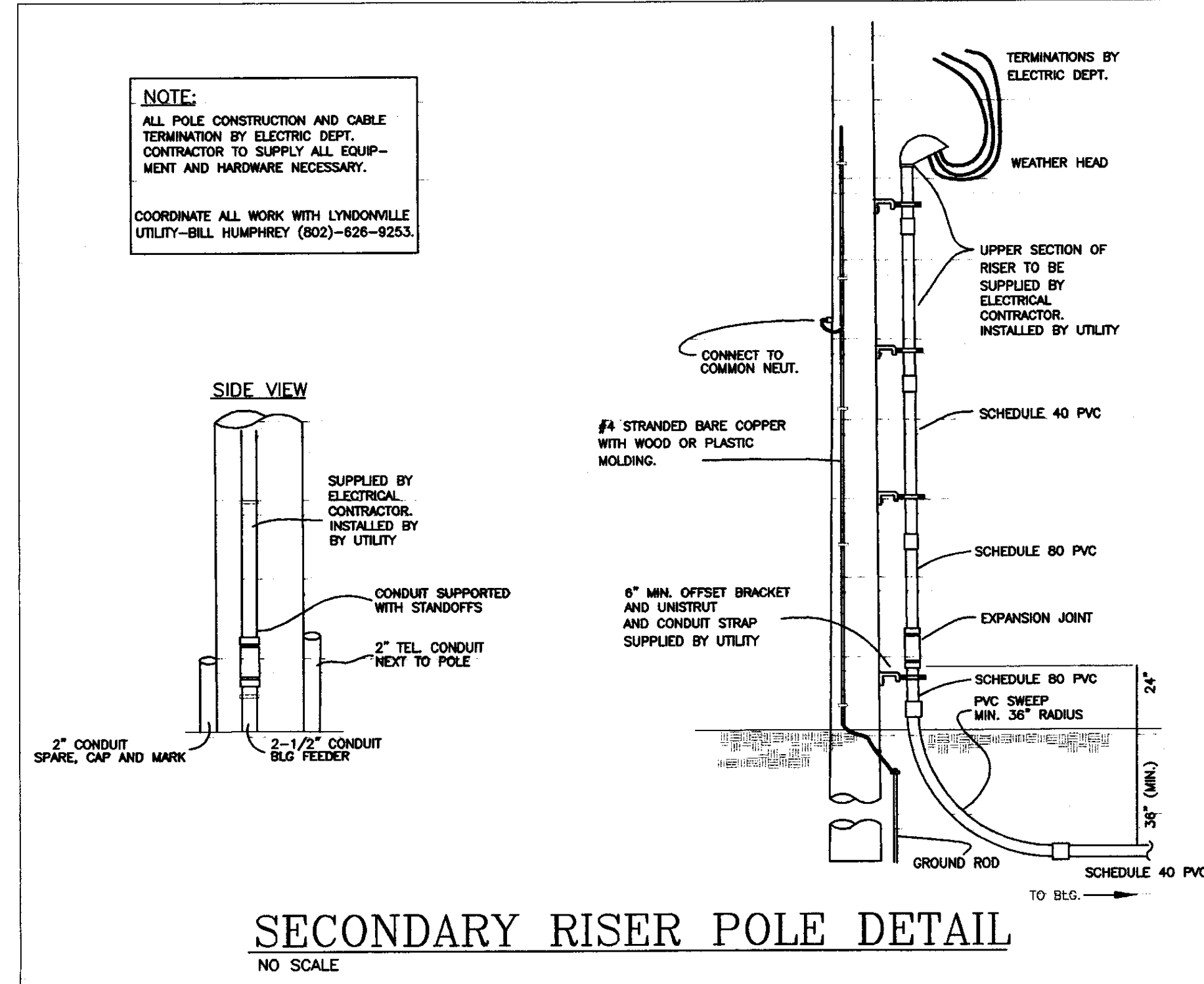
TRENCH DETAIL
NO SCALE

KEY	DESCRIPTION
①	SERVICE CABLE DUCT SHALL BE PVC SCHEDULE 80.
②	WARNING TAPE SHALL BE ELECTRIC LEGEND TYPE, ALLEN CAT.#ANT-1008-RE OR EQUAL. (WARNING TAPE SHALL BE PLACED 12" BELOW SURFACE.)
③	TEL. DUCT SHALL BE PVC SCHEDULE 40. UNDER ROADS & DRIVEWAYS TO BE SCHEDULE 80. MAINTAIN 12" SEPARATION FROM ELECTRIC. PROVIDE SPARE 2" CONDUIT.

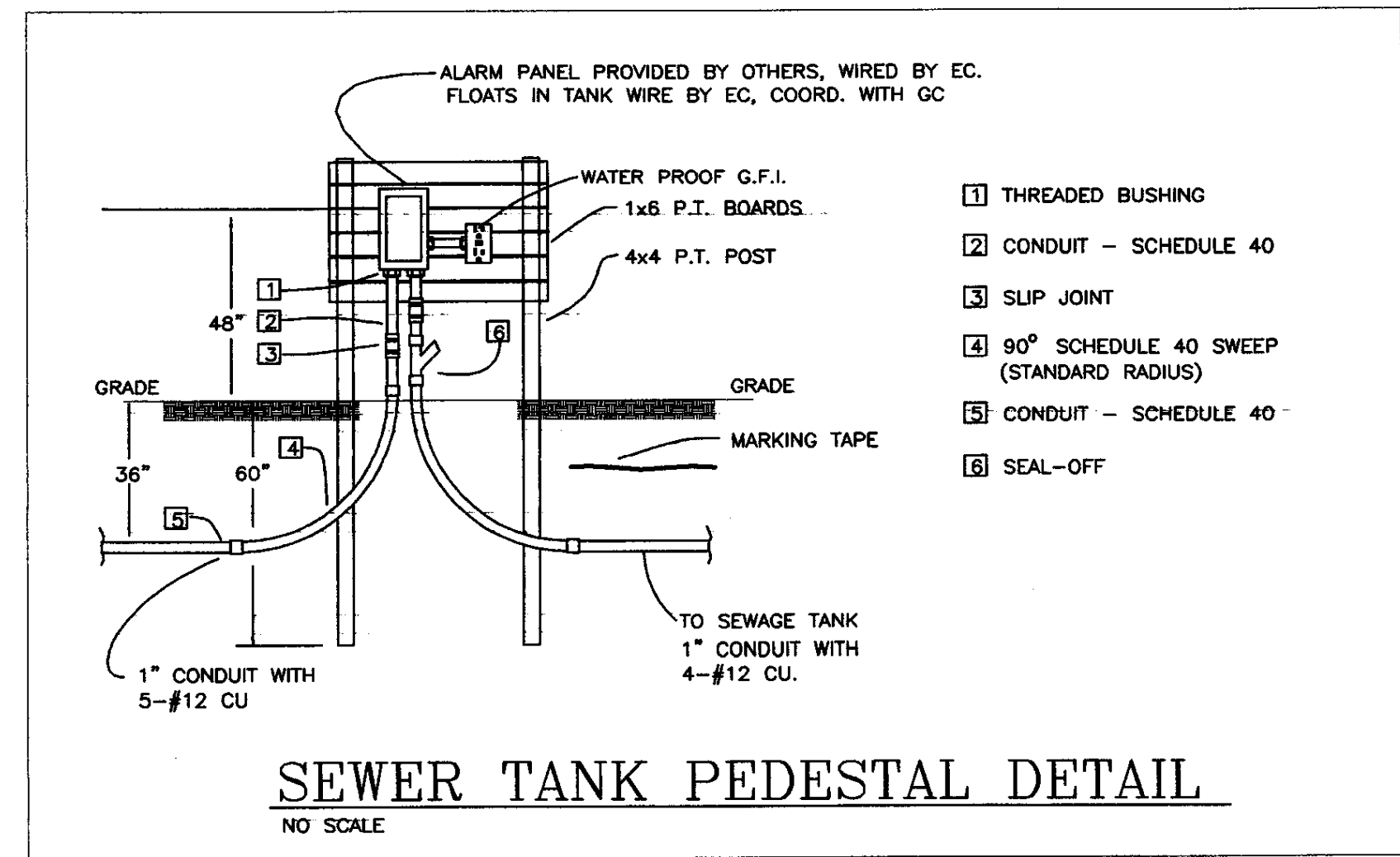
- GENERAL NOTES:**
- ANY PLACE WHERE THE CONTRACTOR PENETRATES, CUTS AND/OR REMOVES WALLS, CEILINGS, OR WOODWORK, CONTRACTOR IS TO REPLACE, PATCH AND PAINT FINISH SURFACES TO ORIGINAL FINISHES.
 - FIELD VERIFY ALL DIMENSIONS BEFORE COMMENCEMENT OF WORK. NOTIFY ENGINEER OF ANY ERRORS.
 - EC TO PROVIDE AND INSTALL ALL DISCONNECT SWITCHES, MC TO SUPPLY ALL MOTOR STARTERS, EC TO INSTALL.
- KEYED NOTES:**
- TELEPHONE CONDUIT & SPARE CONDUIT CONTINUE UNDERSLAB & DO NOT EMERGE FROM THE GROUND.
 - REFER TO PEDESTAL DETAIL & CIVIL DRAWINGS FOR SEWER PUMP WIRING.
 - EXISTING OVERHEAD TO BE REMOVED. COORDINATE WITH UTILITY. EC SHALL INCLUDE \$500. ALLOWANCE FOR UTILITY CHARGES ASSOCIATED WITH REMOVING THIS OVERHEAD SERVICE.



POWER ONE-LINE DIAGRAM
NO SCALE



SECONDARY RISER POLE DETAIL
NO SCALE



SEWER TANK PEDESTAL DETAIL
NO SCALE

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NEW HANGAR FOR CIVIL AIR PATROL			

LYNDONVILLE

E-3
3 OF 3