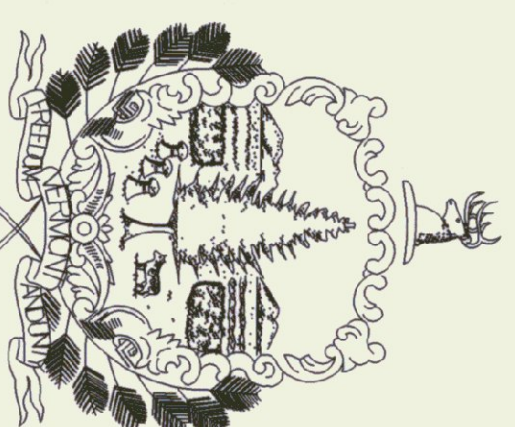


State of Vermont
Department of Buildings & General Services
HIGHGATE MAINTENANCE FACILITY
8 BAY MAINTENANCE GARAGE
SALT/SAND & STORAGE SHEDS
HIGHGATE, VERMONT

AGENCY OF ADMINISTRATION
DEPARTMENT OF BUILDINGS & GENERAL SERVICES
2 GOVERNOR AIKEN AVENUE
MONTPELIER, VERMONT 05633-5801
THOMAS W. TORTI, COMMISSIONER



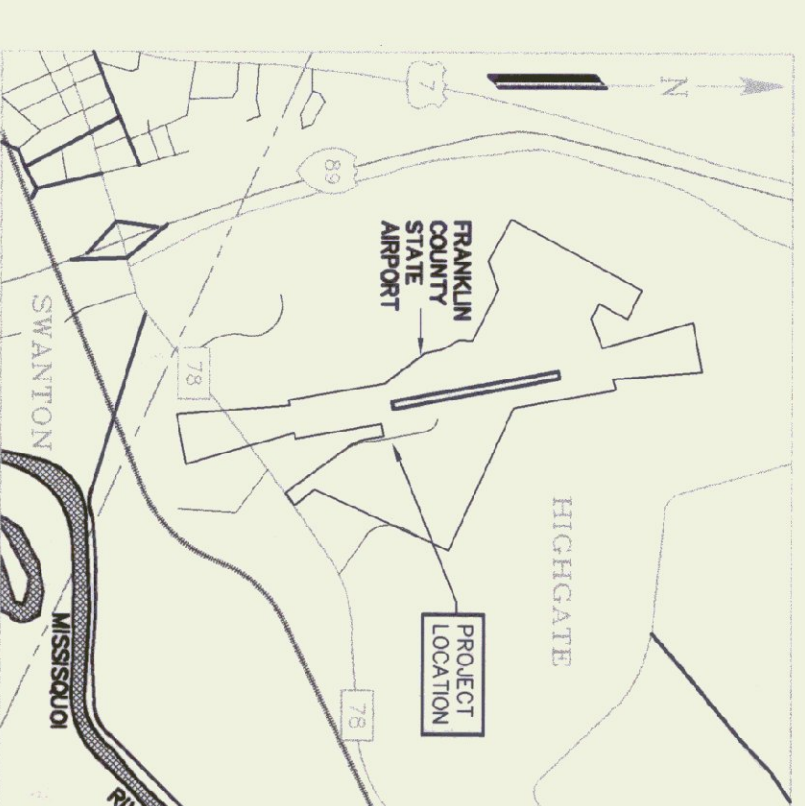
Howard Dean, M.D.
Governor

September 24, 2001

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C-2	PROPOSED SITE PLAN
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S-1.1	WALL PLAN
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AGENCY OF TRANSPORTATION
NATIONAL LIFE BUILDING
DRAWN 33
MONTPELIER, VERMONT 05633
BRIAN SEARLES, SECRETARY

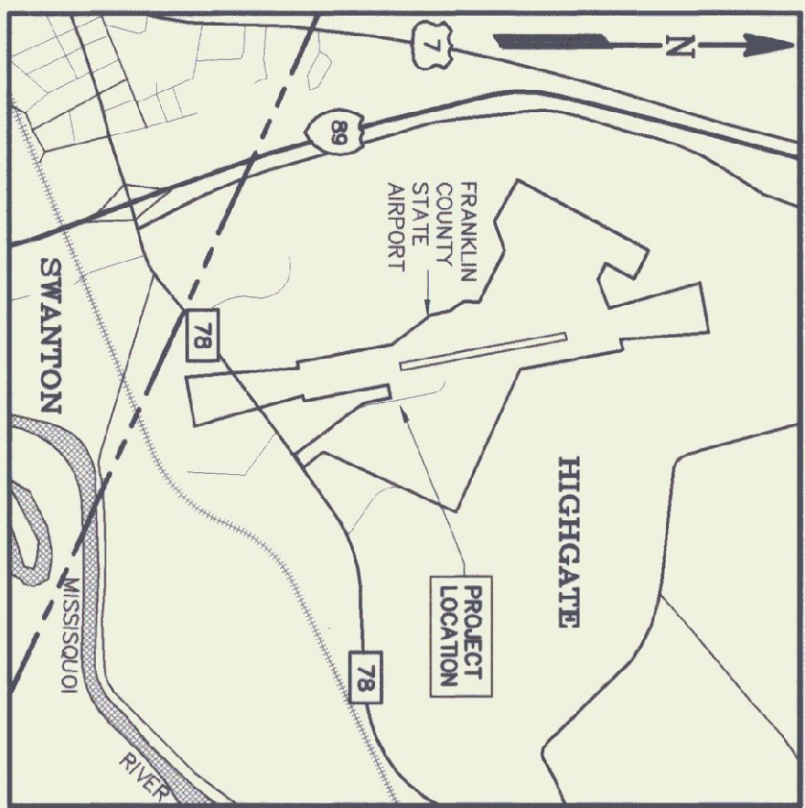


PROJECT LOCATION



<u>TP #1</u>	0-6" 6-8-4"	TOPSOIL & DUFF MEDIUM TEXTURED SAND NO MOTTLING TO DEPTH
<u>TP #2</u>	0-6" 6-1-08"	TOPSOIL & DUFF MEDIUM TEXTURED SAND NO MOTTLING TO DEPTH
<u>TP #3</u>	0-6" 6-6-4"	TOPSOIL & DUFF MEDIUM TEXTURED BROWN SAND NO MOTTLING TO DEPTH
<u>TP #4</u>	0-6" 6-6-4"	TOPSOIL & DUFF MEDIUM TEXTURED BROWN SAND NO MOTTLING TO DEPTH
<u>TP #5</u>	0-6" 7-2-12" 7-2-12" 96-104"	TOPSOIL & DUFF MEDIUM TEXTURED BROWN SAND MEDIUM TEXTURED SILT NO MOTTLING TO DEPTH
<u>TP #6</u>	0-6" 6-9-6"	TOPSOIL & DUFF MEDIUM BROWN SAND
<u>TP #7</u>	0-8" 8-40" 40-80"	TOPSOIL & DUFF MEDIUM TEXTURED BROWN SAND FINE SAND NO MOTTLING TO DEPTH
<u>TP #8</u>	0-6" 6-6-4"	TOPSOIL & DUFF MEDIUM TEXTURED SAND NO MOTTLING TO DEPTH
<u>TP #9</u>	0-6" 6-6-4"	TOPSOIL & DUFF FINE MOTTLING @ 72"
<u>TP #10</u>	0-6" 6-6-4"	TOPSOIL & DUFF MEDIUM BROWN SAND NO MOTTLING TO DEPTH

TEST PIT SUMMARY:



LOCATION MAP

N.T.S.

DESIGN SUMMARY:

1. PROJECT DESCRIPTION:
NEW VERMONT AGENCY OF TRANSPORTATION DISTRICT #6
MAINTENANCE FACILITY.
2. CONTACTS:

OWNER: - STATE OF VERMONT

CONTACT: MERLE MILLER - PROJECT MANAGER

USER: AGENCY OF TRANSPORTATION, DISTRICT #8
P.O. BOX 317

TRANSPORTATION ADMINISTRATOR
(903) 524-5926

PROJECT ARCHITECT: - DORE & WHITTIER
1795 WILLISTON ROAD

(802) 863-1428

PROJECT ENGINEERS: - CHAPMAN CONSULTING ENGINEERS
85 PRIM ROAD, P.O. BOX 453

(802) 863-8060

170 EMERALD STREET
P.O. BOX 769

CONTACT: WATLINE IN. WHITE
(603) 352-7007

7 KILBURN STREET
BURLINGTON, VT 05401

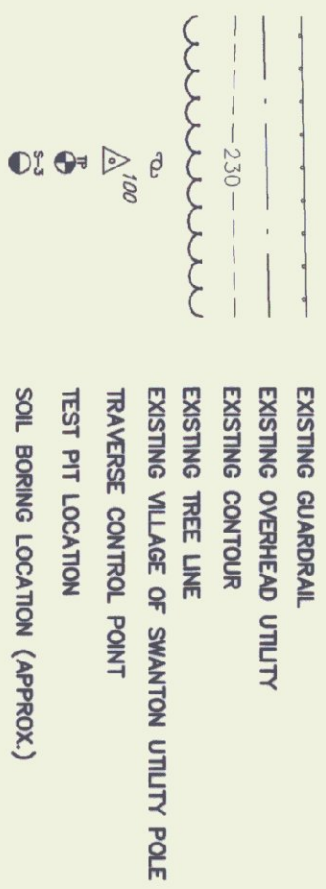
GENERAL NOTES:

- (1) This plan is for topographic purposes only and is not to be used for engineering or construction purposes. It is not to be shown or used for reference only. Project files are for reference only.
- (2) Prior to commencing site work, the General Contractor shall verify existing bed conditions. The Project Engineer shall provide design and natural bed conditions.
- (3) The General Contractor shall contact DCE S&E at (1-888-344-7233) twenty-two hours prior to any attention to the project. Allocation of all underground facilities is located on the project.
- (4) When dimensions of the project drawings are unclear, contact the Project Engineer immediately for clarification.
- (5) It is the General Contractor's responsibility to ensure that the Project drawings reflect the latest revisions.

JOB SITE SAFETY NOTES:

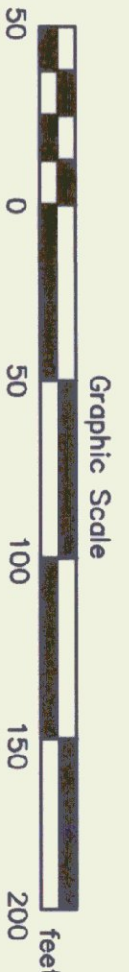
- (1) PROVIDE ADEQUATE SAFETY FOR ALL WORKERS AND THE GENERAL PUBLIC ON AND NEAR THE JOB SITE AT ALL TIMES.
- (2) FOLLOW THE SAFETY PROCEDURES SET FORTH BY THE EMPLOYER OR THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AT ALL TIMES.
- (3) ALL EXCAVATION AND HOLES SHALL BE FILLED, COVERED OR BARREADED AT THE END OF EACH WORKING DAY.
- (4) AT THE END OF EACH WORKDAY, ALL UNFINISHED WORK SHALL BE IDENTIFIED IN SUCH A MANNER SO AS TO AVERT UNAUTHORIZED PERSONNEL FROM ENTERING OR USING THE UNFINISHED AREA.

LEGEND



SITE PLAN

C-1 SCALE 1" = 50



ID#	Engineering Ventures		PROJECT NAME:		SHEET:	
	2000 Rte 2000 New Bedford MA 01940	1000 Rte 1000 New Bedford MA 01940	0000 Rte 0000 New Bedford MA 01940	0000 Rte 0000 New Bedford MA 01940	1 07/12/01 S-1	1 07/12/01 S-1
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[illegible][illegible][illegible]

ALL AND UTILITY RECORDS OF SHAWNOT UTILITY POLE LOC. POINT IN LOCATION (APPROX.)	SCALE:	1"
	DATE:	09/
	DRAWN BY:	
	APPR. BY:	

REVISIONS

AGENCY OF TRANSPORTATION
HIGHGATE MAINTENANCE FACILITY
HIGHGATE VERMONT

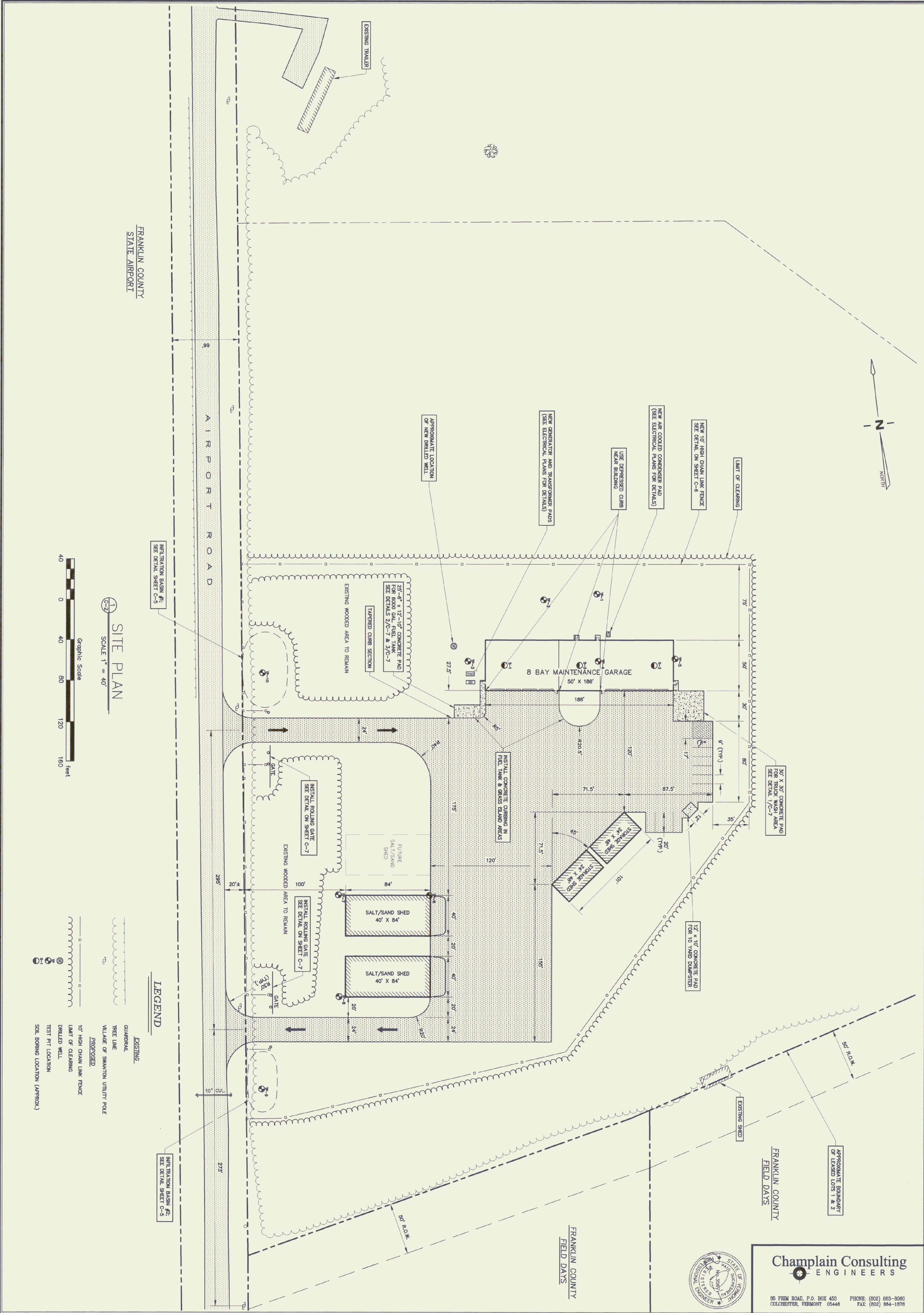


STATE OF VERMONT
DEPARTMENT OF BUILDINGS
AND GENERAL SERVICES
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT



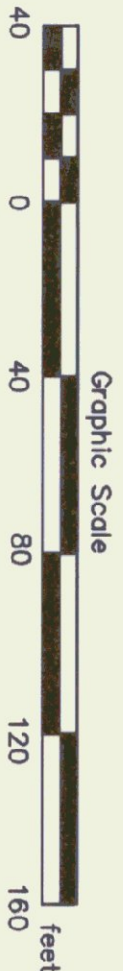
D&W
DORE AND WHITTIER, INC.
Architects • Project Managers

1400 HANCOCK STREET
QUINCY, MA 02169
Phone: (617) 471-2897
Fax: (617) 471-2516



FRANKLIN COUNTY
STATE AIRPORT

SITE PLAN
SCALE 1" = 40'



INTEGRATION BASIN #1
SEE DETAIL SHEET C-3

EXISTING TRAILER

APPROXIMATE LOCATION
OF NEW DRILLED WELL

NEW GENERATOR AND TRANSFORMER PADS
(SEE ELECTRICAL PLANS FOR DETAILS)

USE DEPRESSED CURB
NEAR BUILDING

NEW AIR COOLED CONDENSER PAD
(SEE ELECTRICAL PLANS FOR DETAILS)

NEW 10' HIGH CHAIN LINK FENCE
SEE DETAIL ON SHEET C-6

LIMIT OF CLEARING

30' X 30' CONCRETE PAD
FOR TRUCK WASH AREA
SEE DETAIL V/C-7

12' X 10' CONCRETE PAD
FOR 10 YARD DUMPSTER

INSTALL CONCRETE CURBING IN
FUEL TANK & GRASS ISLAND AREAS

25'-6" X 12'-10" CONCRETE PAD
FOR 6000 GAL. FUEL TANK
SEE DETAILS Z/C-7 & 3/C-7

TAPERED CURB SECTION

EXISTING WOODED AREA TO REMAIN

INSTALL ROLLING GATE
SEE DETAIL ON SHEET C-7

EXISTING WOODED AREA TO REMAIN

INSTALL ROLLING GATE
SEE DETAIL ON SHEET C-7

SALT/SAND SHED
40' X 84'

SALT/SAND SHED
40' X 84'

INTEGRATION BASIN #2
SEE DETAIL SHEET C-3

LEGEND

- EXISTING:
 - GUARDRAIL
 - TREE LINE
 - VILLAGE OF SWANTON UTILITY POLE
- PROPOSED:
 - 10' HIGH CHAIN LINK FENCE
 - LIMIT OF CLEARING
 - DRILLED WELL
 - TEST PIT LOCATION
 - SOIL BORING LOCATION (APPROX.)

**Champlain Consulting
ENGINEERS**

85 PRIM ROAD, P.O. BOX 455 COLCHESTER, VERMONT 05446
PHONE: (802) 863-8080 FAX: (802) 864-1878

D&W
DORE AND WHITTIER, INC.
Architects • Project Managers

1795 WILLISTON RD, STE 5
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Fax: (802) 863-4955
1400 HANCOCK STREET
QUINCY, MA 02169
Phone: (617) 471-2897
Fax: (617) 471-2516

STATE OF VERMONT
DEPARTMENT OF BUILDINGS
AND GENERAL SERVICES
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT



AGENCY OF TRANSPORTATION
HIGHGATE MAINTENANCE FACILITY
HIGHGATE VERMONT

REVISIONS	

SCALE:	1" = 40'
DATE:	09/24/01
DRAWN BY:	CCE
APPR. BY:	PD

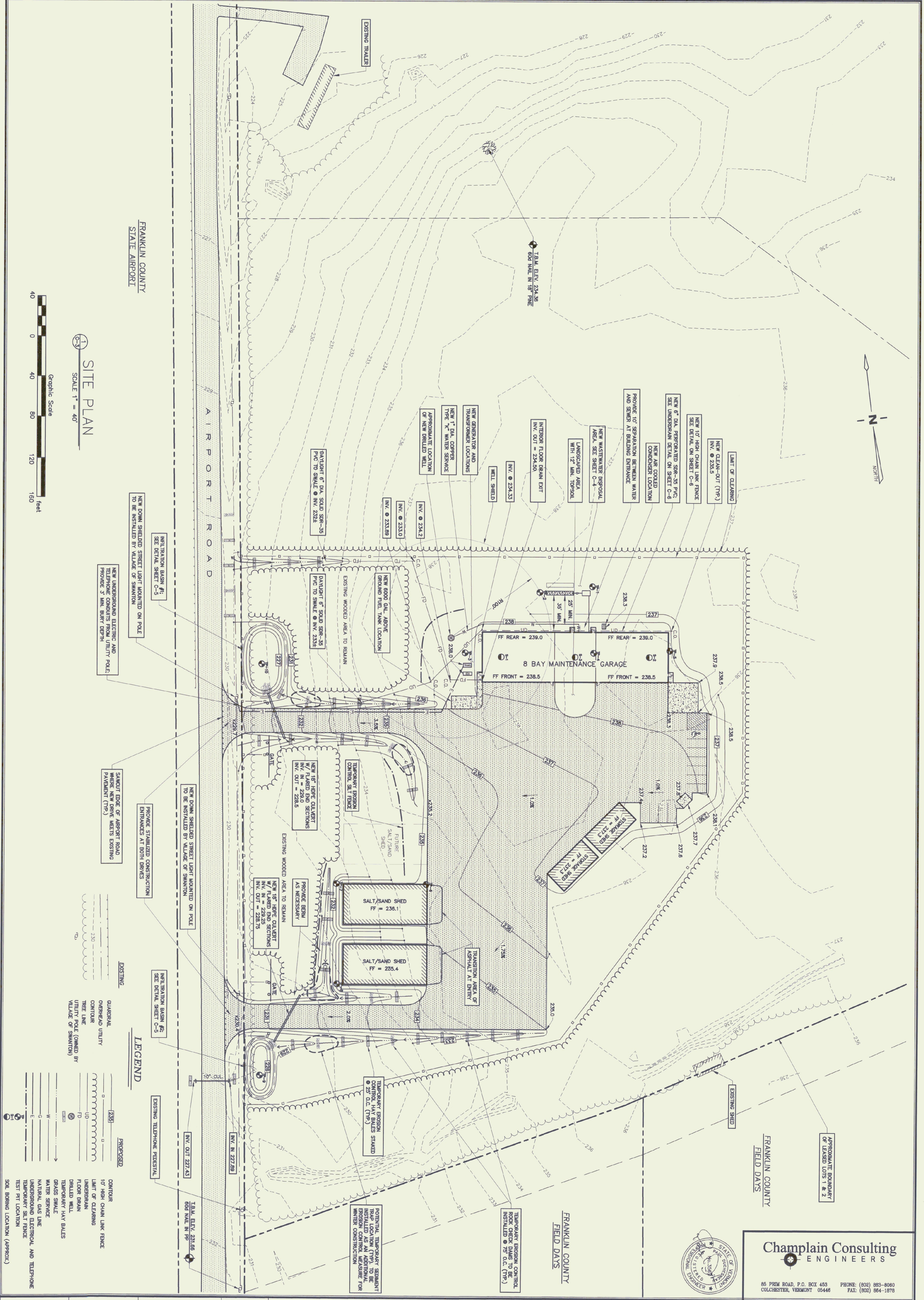
HIGHGATE

MAINTENANCE
GARAGE

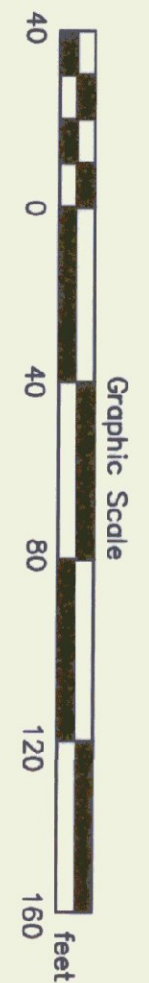
SITE PLAN

C-2

3 OF 37



SITE PLAN
SCALE 1" = 40'



- LEGEND**
- EXISTING**
- QUADRAIL
 - OVERHEAD UTILITY
 - CONTOUR
 - TREE LINE
 - UTILITY POLE (OWNED BY VILLAGE OF SWANTON)
- PROPOSED**
- CONTOUR
 - 10' HIGH CHAIN LINK FENCE
 - UNDERDRAIN
 - FLOOR DRAIN
 - DRILLED WELL
 - TEMPORARY HAY BALES
 - GRASS SWALE
 - NATURAL GAS LINE
 - UNDERGROUND ELECTRICAL AND TELEPHONE
 - TEST PIT LOCATION
 - SOIL BORING LOCATION (APPROX.)

Champlain Consulting ENGINEERS

85 PRIM ROAD, P.O. BOX 463
COLCHESTER, VERMONT 05446

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1400 HANCOCK STREET
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Phone: (617) 471-2897
Fax: (617) 471-2516

AGENCY OF TRANSPORTATION
HIGHGATE MAINTENANCE FACILITY
HIGHGATE VERMONT

REVISIONS
SCALE: 1" = 40'
DATE: 09/24/01
DRAWN BY: CCE
APPR. BY: PD

BASIS OF DESIGN:
12 EMPLOYEES @ 15 gal./EMPLOYEE = 180 gal
WATER SAVING ALLOWANCE = 9 X 180 = 162 gal
REQUIRED DISPOSAL AREA = 162 gal / 1.5 gal per sq ft = 108 sq ft.
108 sq ft. x 27" DEPTH = 2916 cu ft. OF DISPOSAL AREA FOR
PRIMARY AND SECONDARY DISPOSAL TRENCHES
INSTALL A NEW 1000 GALLON PRECAST CONCRETE SEPTIC TANK

PERIODIC MAINTENANCE NOTES:

- SEPTIC TANK**
- (1) The depth of sludge and scum in the septic tank shall be measured annually by the Owner. The septic tank shall be pumped if the sludge is closer than 3" to the septic tank outlet baffle.
 - (2) All interior surfaces shall be inspected for cracking after the septic tank has been pumped.
 - (3) The effluent filter should be rinsed clean regularly.

WASTEWATER DISPOSAL AREA

- (1) Maintain turf conditions throughout the summer months by mowing the grass to 2 1/2" - 3" in length, reseed of bare spots.
- (2) At least once per year, open the distribution box and remove all settled solids as necessary.

TEST PIT SUMMARY:

TP #1 0-6" TOPSOIL & DUFF
6-94" MEDIUM TEXTURED SAND
NO NOTING TO DEPTH

TP #2 0-6" TOPSOIL & DUFF
6-108" MEDIUM TEXTURED SAND
NO NOTING TO DEPTH

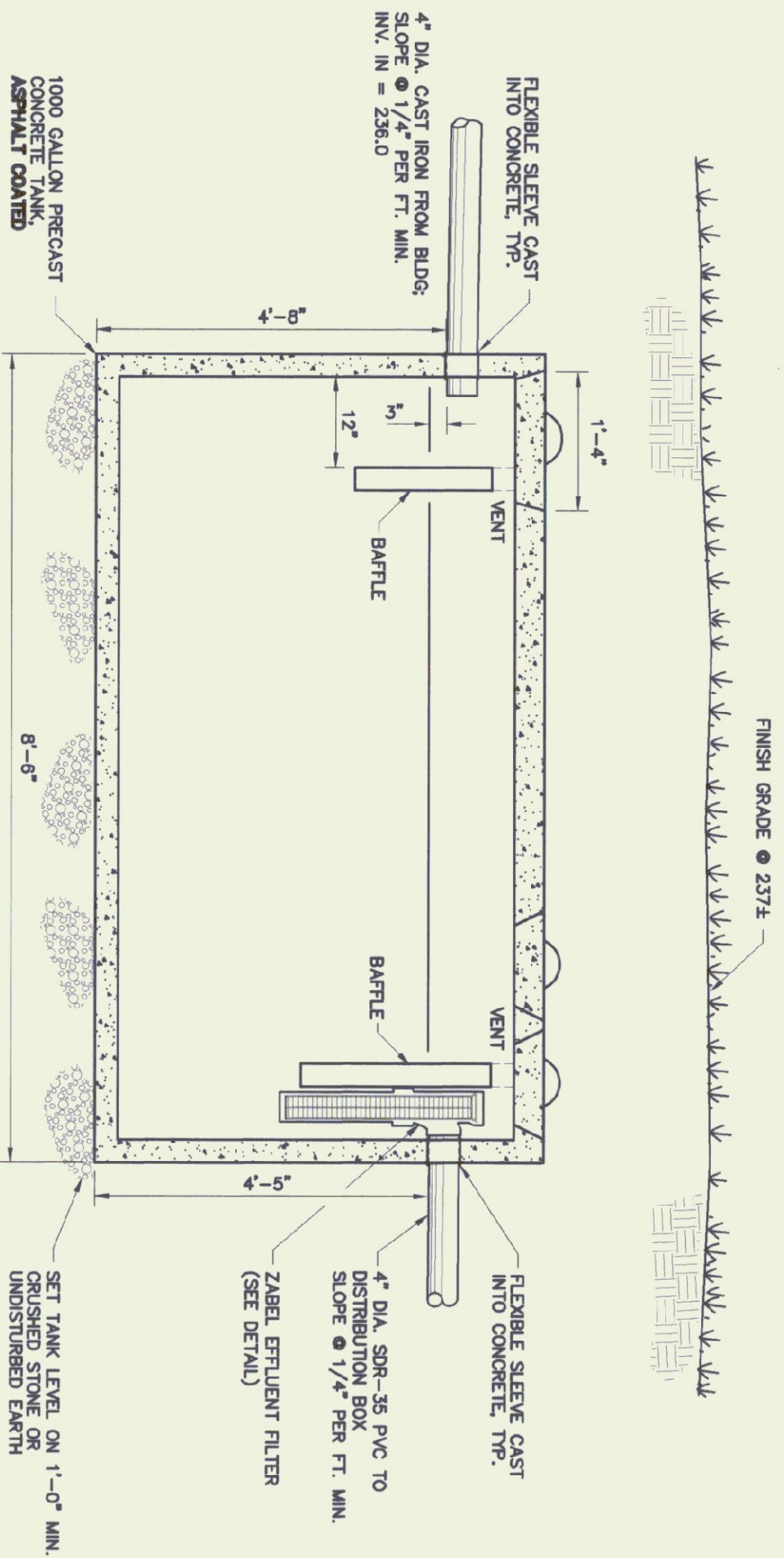
PERCOLATION TEST SUMMARY:

PT #1 1 MIN./INCH
PT #2 1 MIN./INCH
DEPTH OF PERC. TESTS: 30"

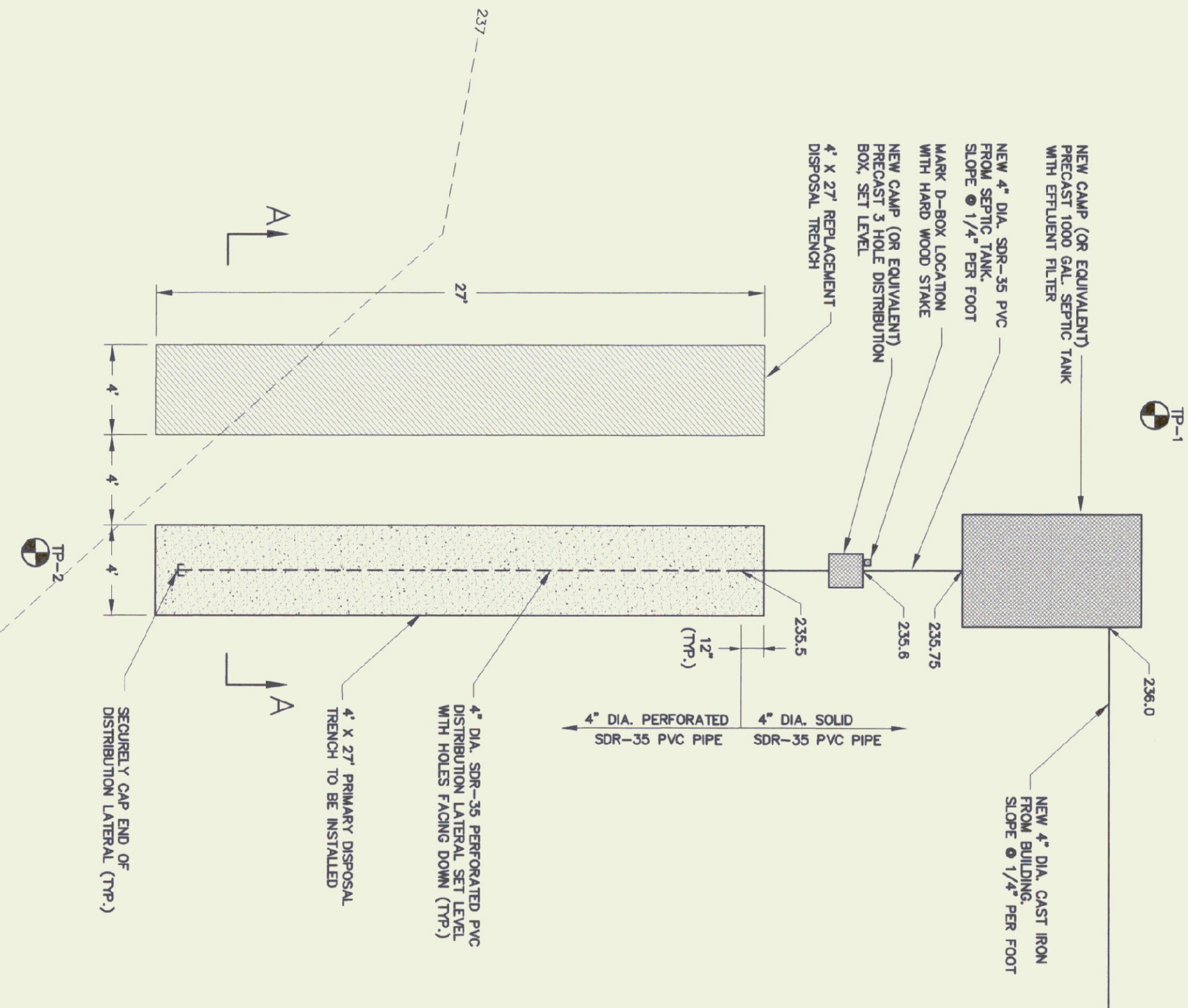
SOILS INVESTIGATION COMPLETED BY CHAMPLAIN CONSULTING
ENGINEERS ON 05/31/01.

CONSTRUCTION NOTES:

- (1) The wastewater disposal system design shall be reviewed with the General Contractor prior to commencement of construction, and reviewed during the critical phases of construction by a representative from Champlain Consulting Engineers to confirm construction methods and materials. The General Contractor shall be responsible for establishing the construction schedule. Forty-eight (48) hours advance notice is required for all construction reviews.
- (2) The sides and bottom of the disposal trenches shall be rolled to scurry any smeared soil surfaces after excavation is completed. All loose material shall be removed from the disposal trenches.
- (3) The distribution lines shall be placed on the crushed stone bedding with no slope, and covered with crushed stone as per the disposal trench detail.
- (4) The area around the wastewater disposal system shall be graded to provide diversion of surface runoff water from the disposal area.

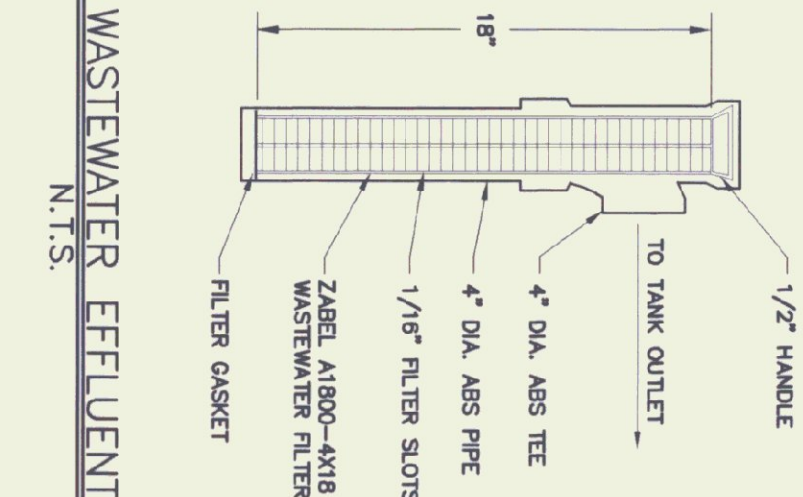


C-4 TYPICAL SEPTIC TANK WITH OUTLET FILTER
N.T.S.

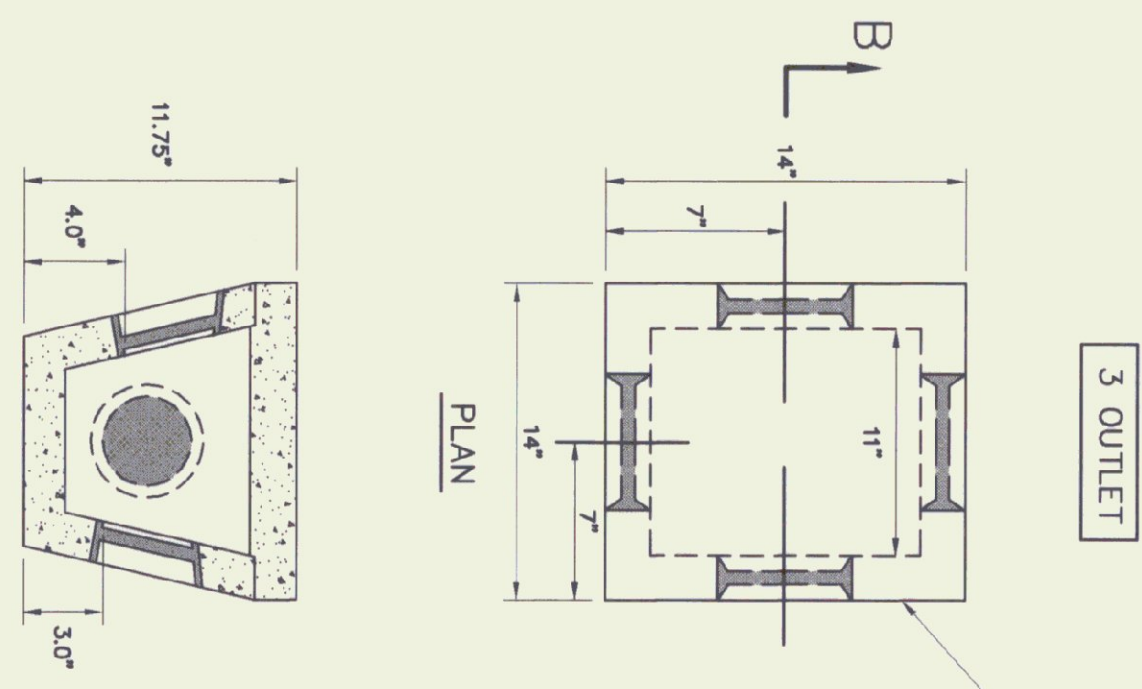


C-5 DISPOSAL AREA PLAN
SCALE: 1" = 5'
N.T.S.

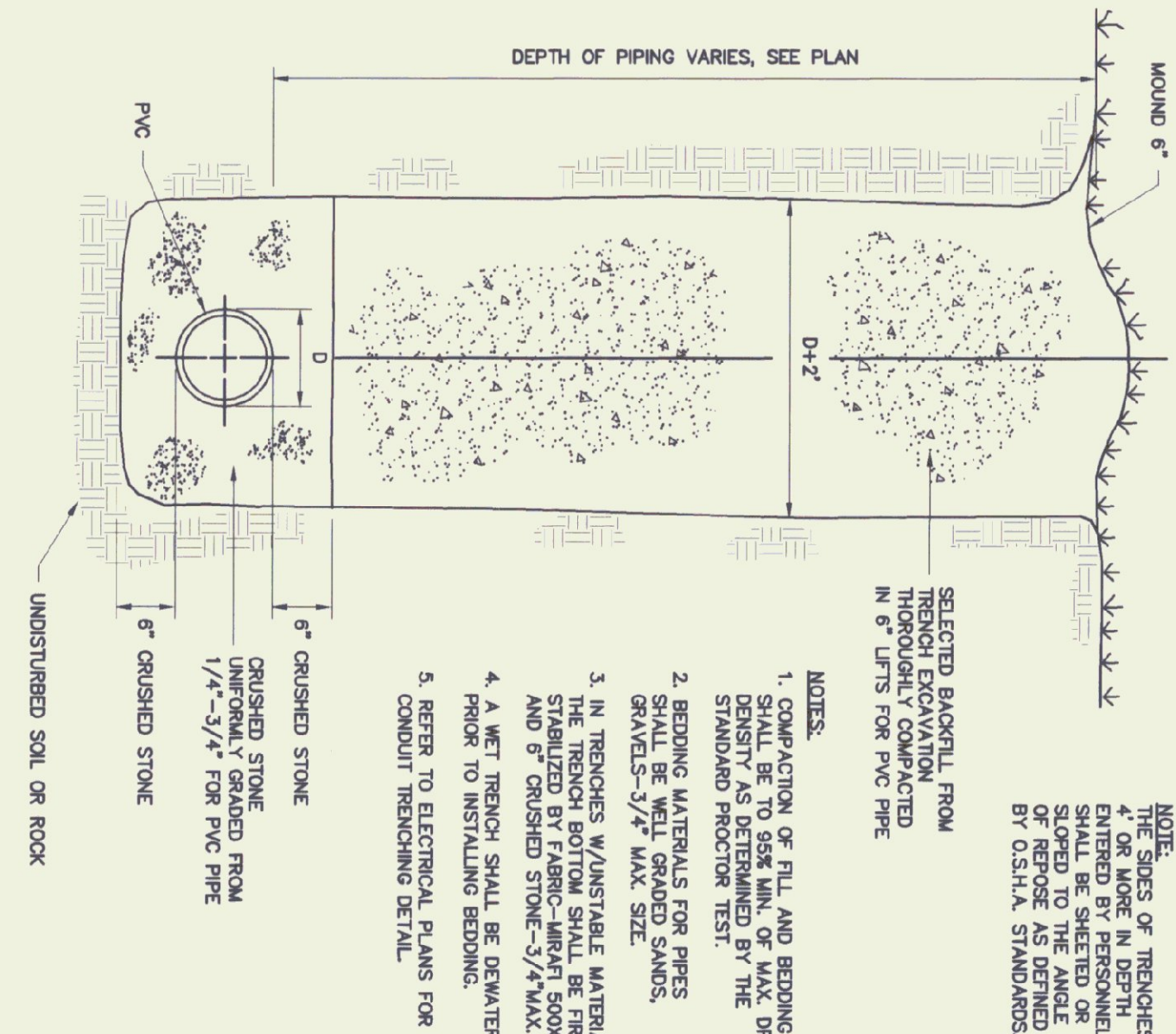
C-6 ZABEL WASTEWATER EFFLUENT FILTER
N.T.S.



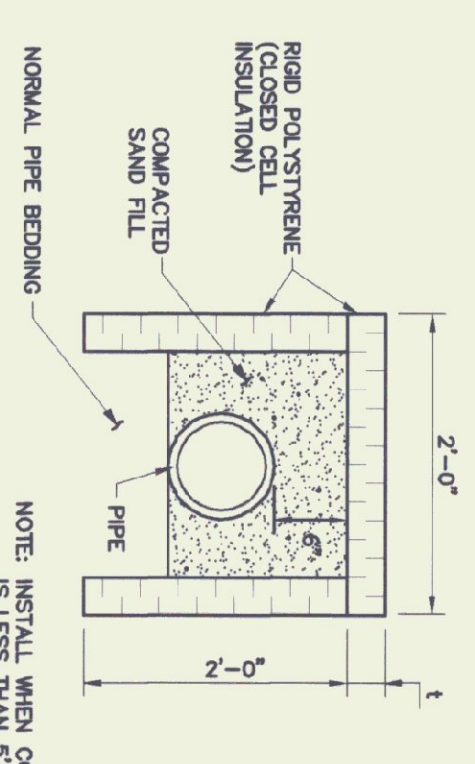
C-7 PRECAST CONCRETE DISTRIBUTION BOX DETAIL
N.T.S.



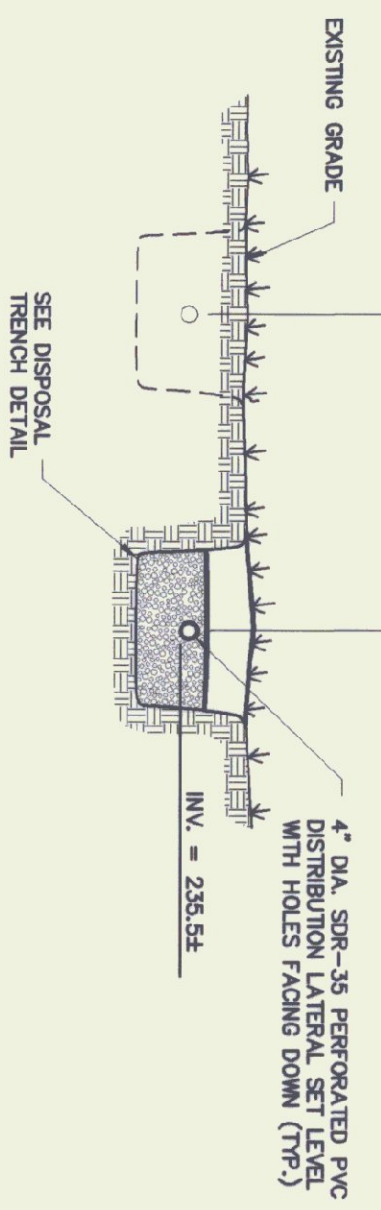
C-8 TYPICAL EXCAVATION TRENCH DETAIL
N.T.S.



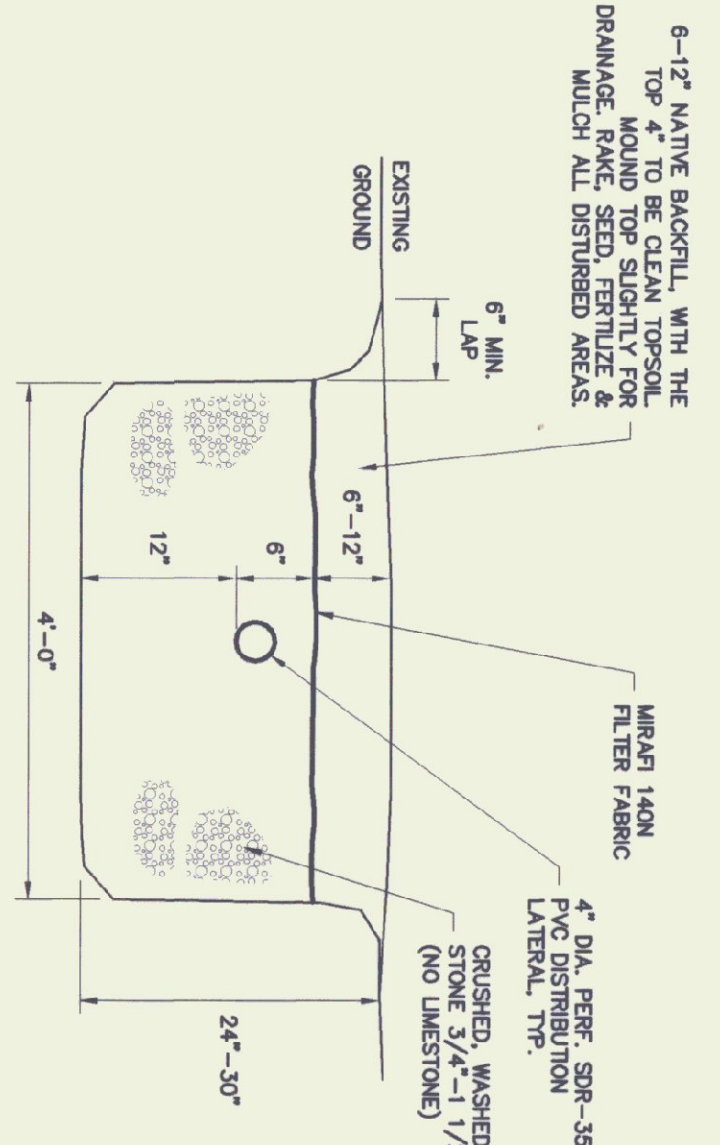
C-9 WATER/SEWER INSULATION DETAIL
N.T.S.



C-10 WASTEWATER DISPOSAL AREA SECTION A-A
N.T.S.



C-11 TYPICAL DISPOSAL TRENCH DETAIL
N.T.S.



Champlain Consulting
ENGINEERS

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COLCHESTER, VERMONT 05446

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STATE OF VERMONT
DEPARTMENT OF BUILDINGS
AND GENERAL SERVICES
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT

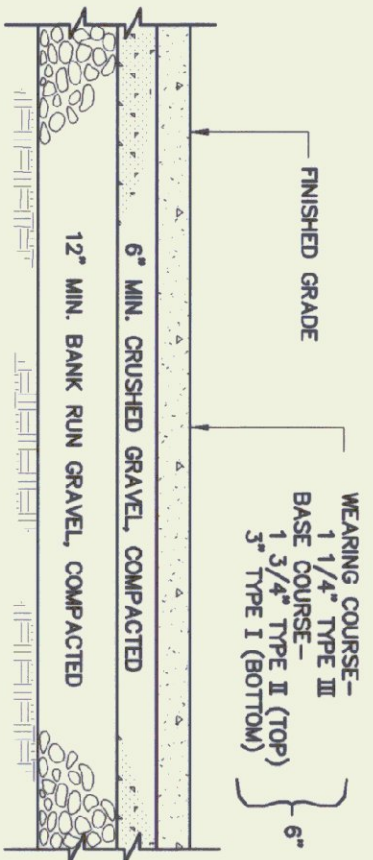
AGENCY OF TRANSPORTATION
HIGHGATE MAINTENANCE FACILITY
HIGHGATE VERMONT

REVISIONS

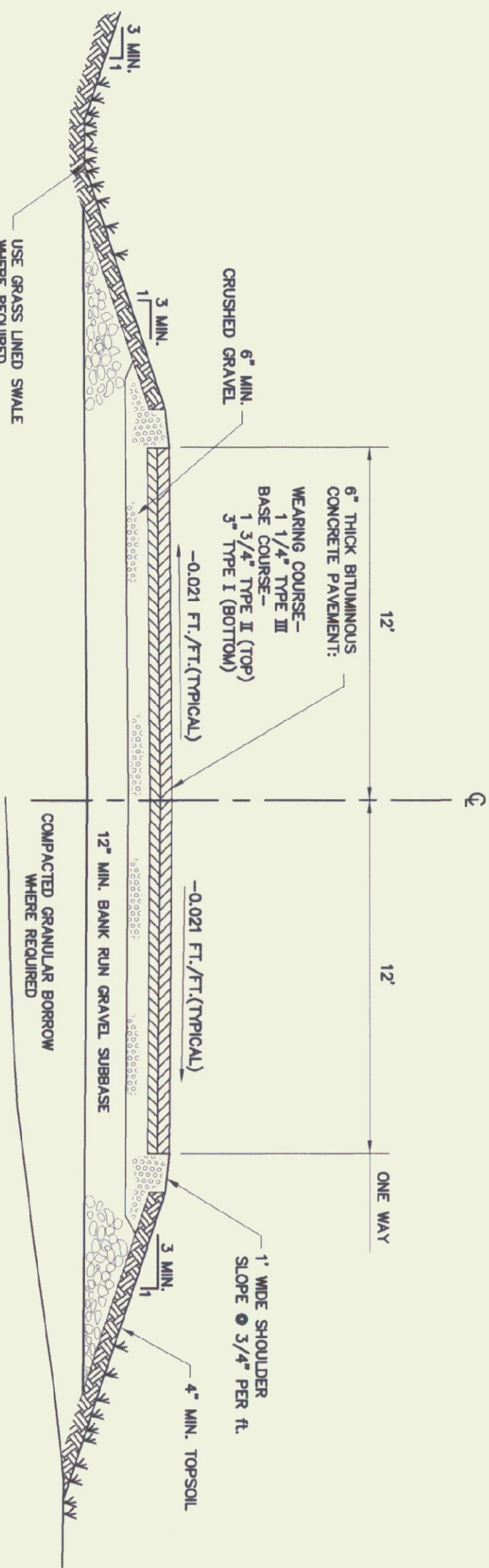
SCALE: AS NOTED	DATE: 09/24/01	DRAWN BY: CCE	APPR. BY: PD
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C-4
5 OF 37

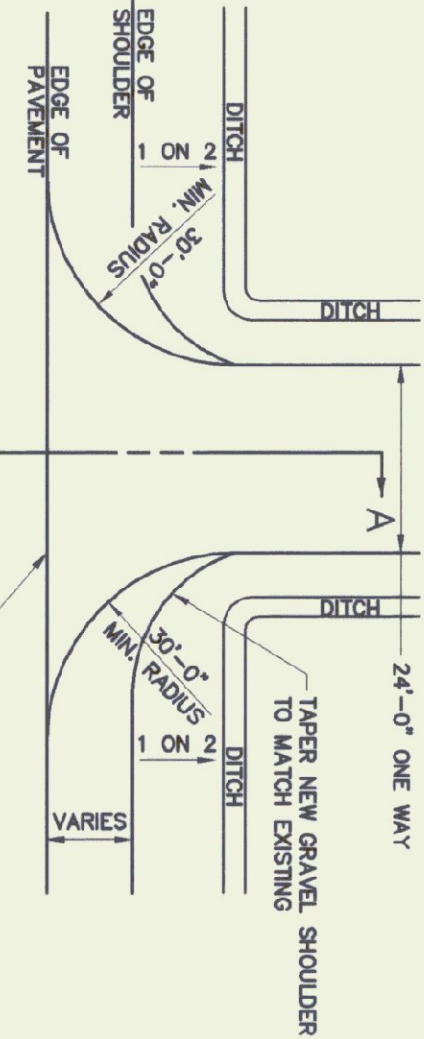
HIGHGATE
MAINTENANCE
GARAGE
WASTEWATER PLAN



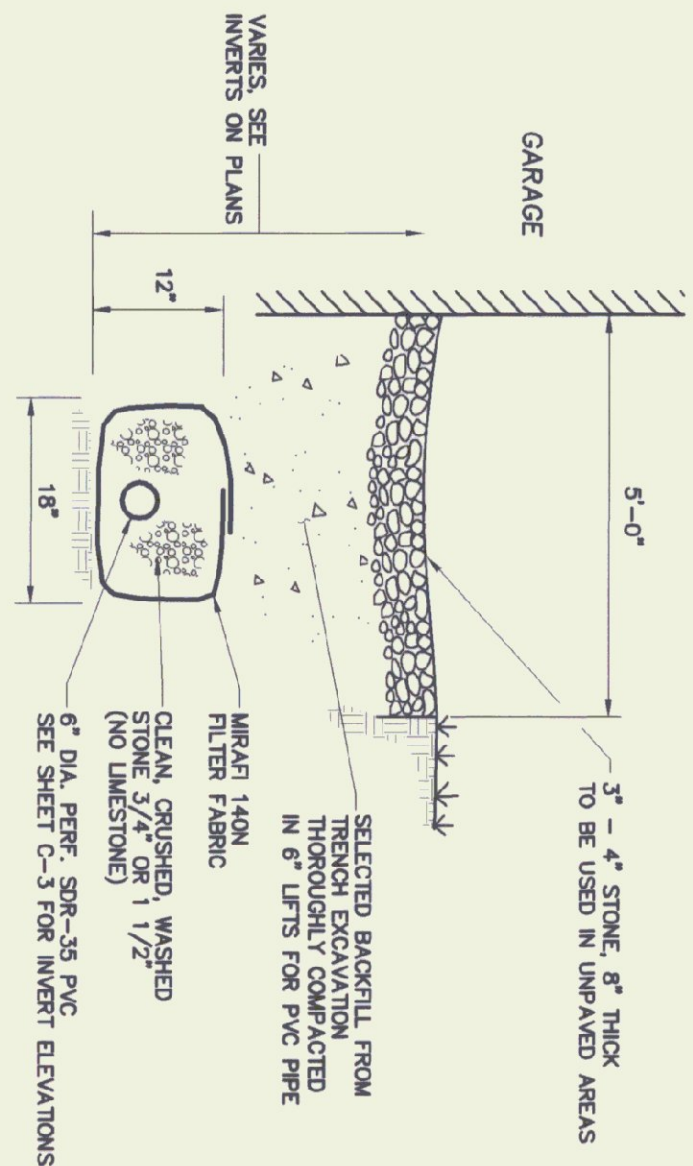
1 TYPICAL PAVEMENT SECTION
N.T.S.



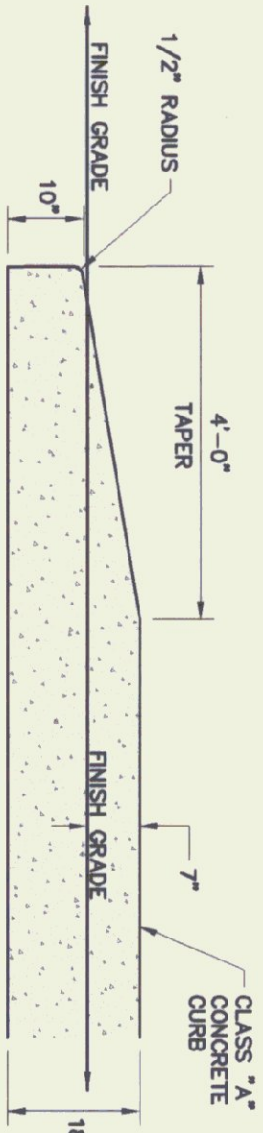
2 TYPICAL COMMERCIAL ENTRANCE CROSS-SECTION
N.T.S.



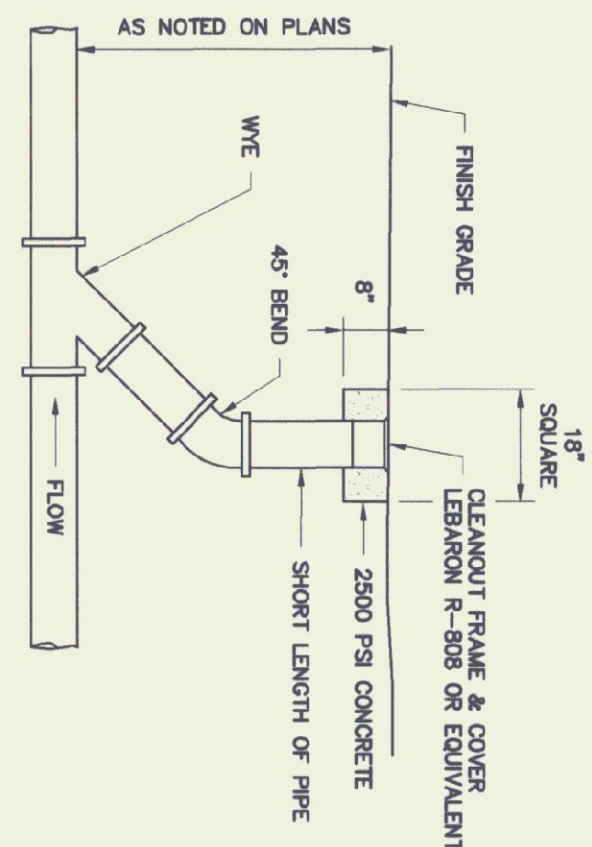
4 TYPICAL RURAL DRIVEWAY DETAIL
N.T.S.



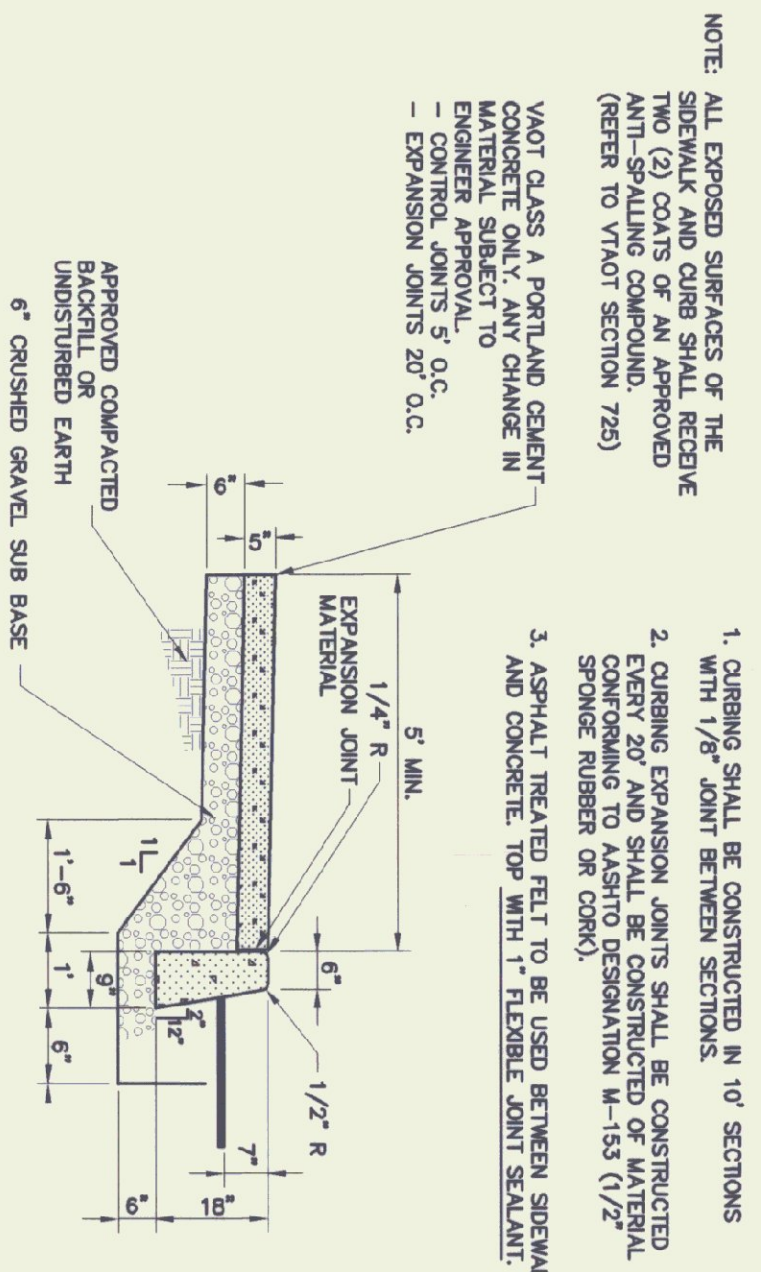
5 TYPICAL UNDERDRAIN DETAIL
N.T.S.



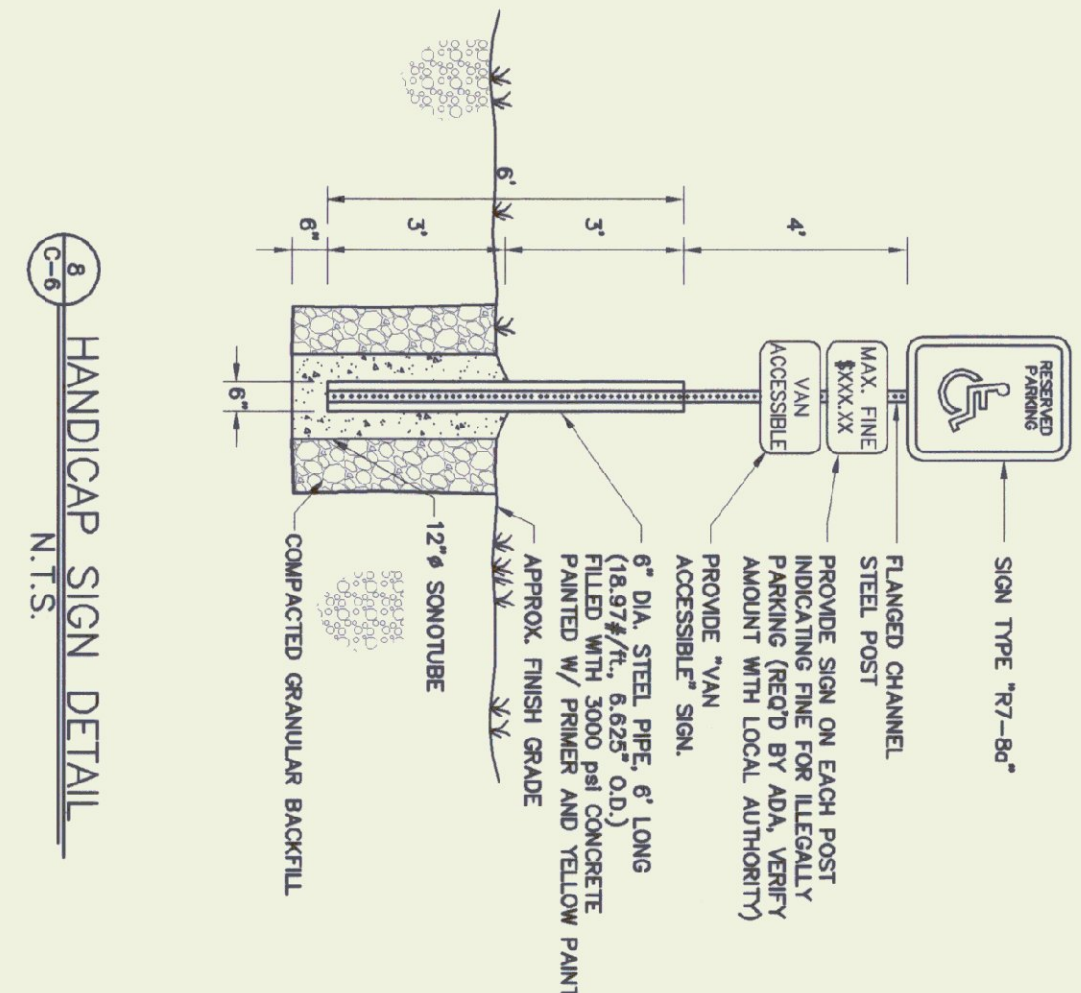
6 TYPICAL TAPERED CURB
N.T.S.



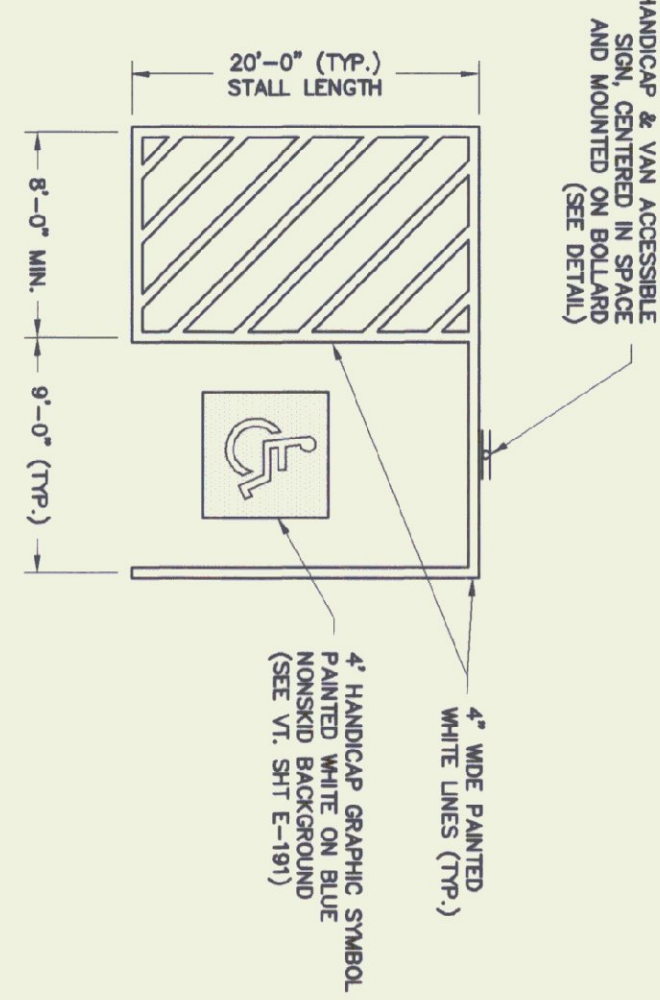
3 TYPICAL CLEANOUT DETAIL
N.T.S.



7 CONCRETE SIDEWALK & CURB DETAIL
N.T.S.

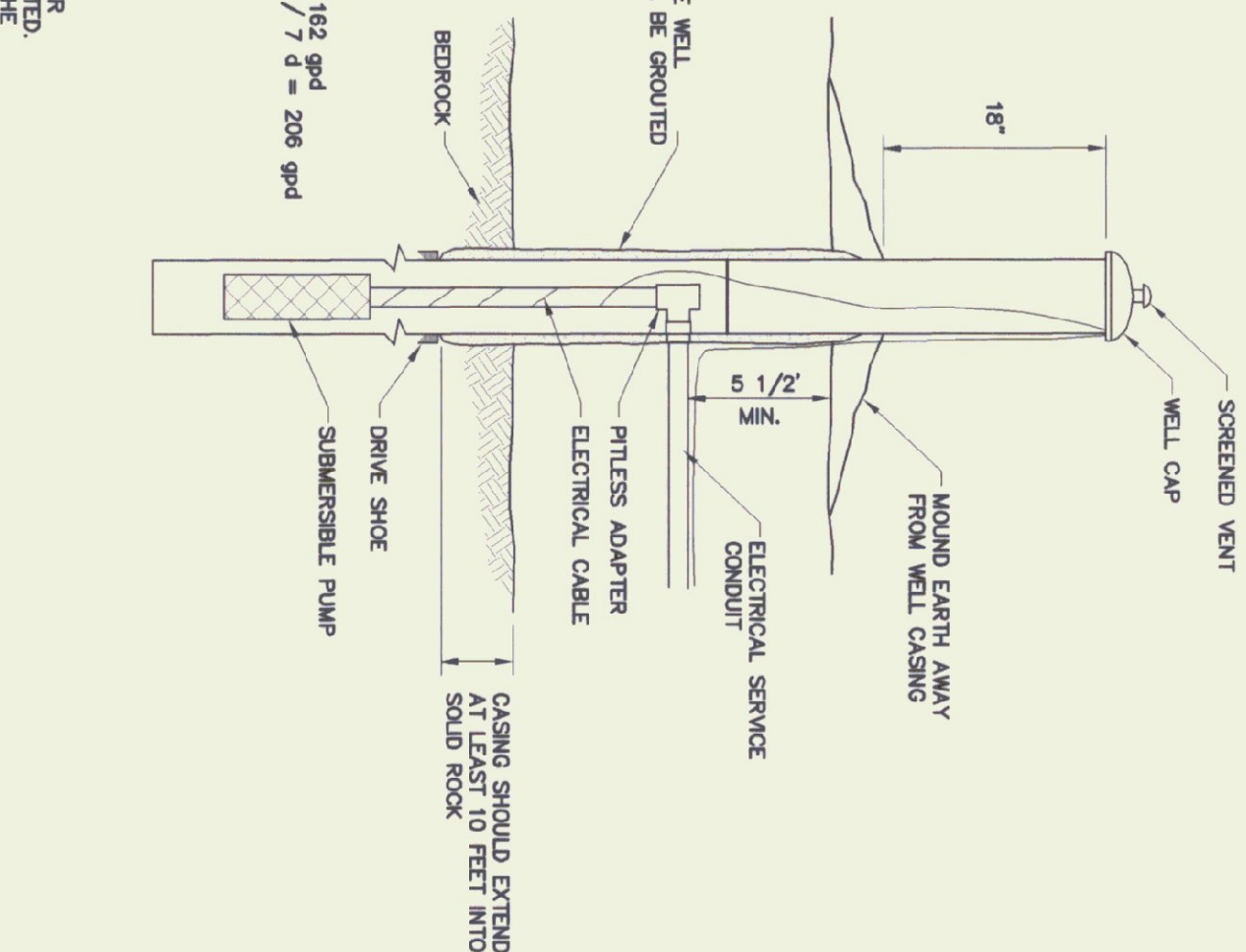


8 HANDICAP SIGN DETAIL
N.T.S.

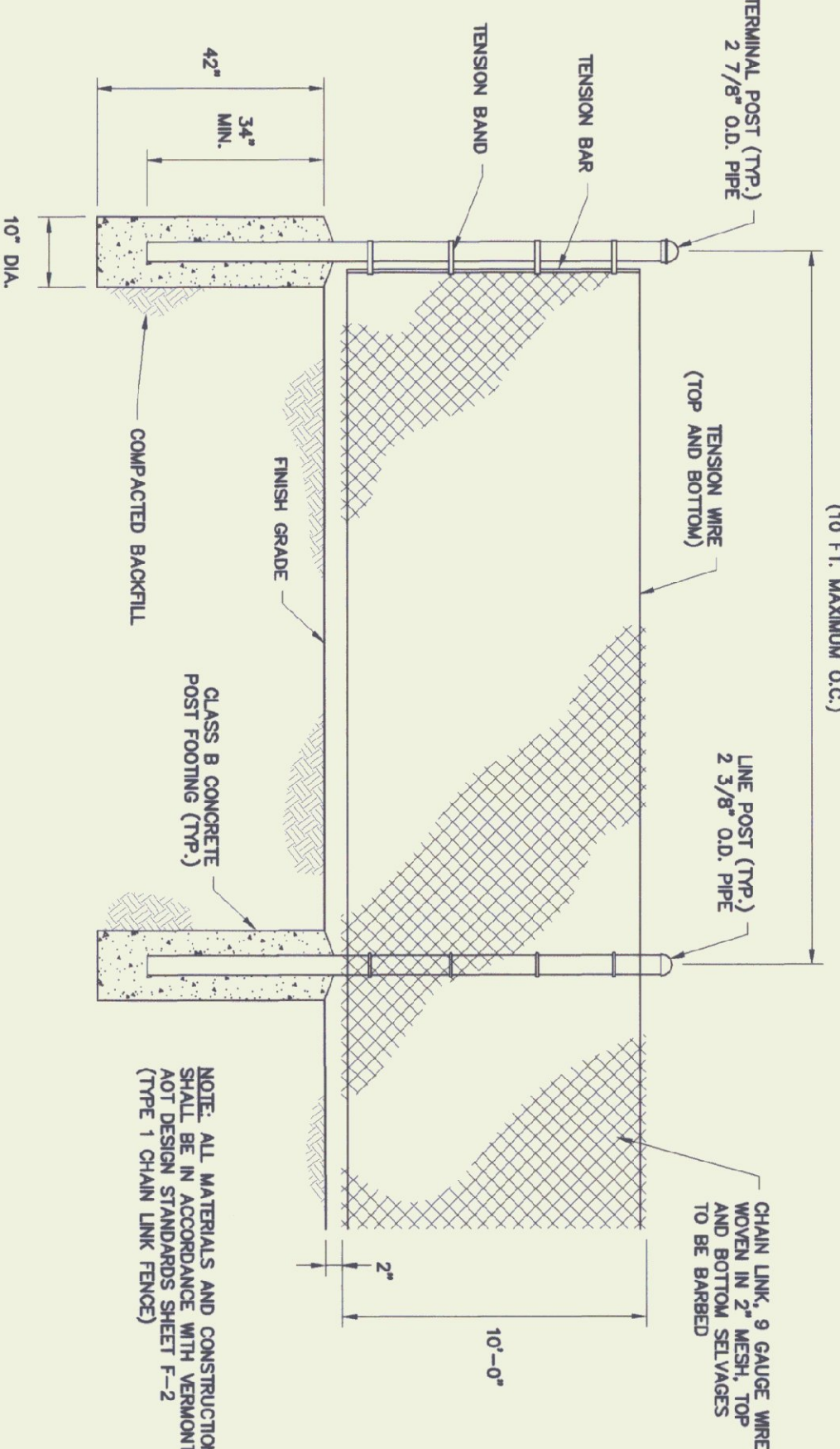


9 ACCESSIBLE SPACE PAVEMENT MARKING
N.T.S.

DESIGN NOTES - WATER SUPPLY
A) AVERAGE DAY DEMAND = 388 gpd
B) PEAK DAY DEMAND = 1200 gpd
C) PEAK HOUR DEMAND = 100 gpm
D) SOURCE CAPACITY = 1000 gpm
E) STORAGE CAPACITY = 1000 gpm
F) PUMP CAPACITY = 1000 gpm
G) PUMP EFFICIENCY = 40%
H) FLOOD PLAN = N/A



10 TYPICAL DRILLED WELL
N.T.S.



11 CHAIN LINK FENCE DETAIL
N.T.S.

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STATE OF VERMONT
DEPARTMENT OF BUILDINGS
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AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT



REVISIONS	SCALE: N.T.S.
DATE: 09/24/01	
DRAWN BY: CCE	
APPR. BY: PD	

AGENCY OF TRANSPORTATION
HIGHGATE MAINTENANCE FACILITY
HIGHGATE VERMONT

GENERAL SPECIFICATIONS

The Standard Specifications shall refer to the Vermont Agency of Transportation Standard Specifications for Construction (1990 Edition). All shop work shall also be completed in accordance with any form of Highway's Public Works standards. Any prior to beginning that work.

A. Earthwork

1. The work area shall be cleared of all debris and vegetation, and all topsoil shall be stripped prior to placing any fill material. Debris and vegetation shall be disposed of at an approved location.

2. Grading

- a. Perform all rough grading, including excavation, formation of embankments, and final grading, in accordance with the Standard Specifications for Construction (1990 Edition). Grading shall be brought to the bottom of the base course under paved or surfaced areas and to within a minimum of 2 inches of the sub-grade under unsurfaced areas.

- b. Accomplish all excavation and fill within the slope and grade lines as indicated on the Drawings unless otherwise authorized in writing by the Owner. Paved areas shall be graded to full cross section width of sub-grade before placing any type of sub-base or pavement.

- c. Do not use frozen material in the construction of embankments or areas.

- d. Place all material in embankments in horizontal layers of uniform thickness, compacting each layer to the required density, except when it is impractical to compact in horizontal layers, in which case the Contractor shall be authorized by the Owner. Do not allow or place slump, trees, rubbish or other unsuitable material in embankments. Begin layers of embankment at the toe of the slope.

- e. Areas of soft, yielding or otherwise unsuitable material that will not meet compaction requirements shall be removed, replaced with suitable material and properly compacted to no cost to the Owner.

- f. Place embankments for paved or surfaced areas in horizontal layers of depths which will result in layers of compacted material not exceeding 8 inches. The Contractor shall be authorized by the Owner to use a vibratory plate compaction equipment on each layer to obtain uniform thickness prior to placing the next layer. The Contractor shall be authorized by the Owner to use a vibratory plate compaction equipment on each layer to obtain uniform thickness prior to placing the next layer.

- g. The Contractor shall be authorized by the Owner to use a vibratory plate compaction equipment on each layer to obtain uniform thickness prior to placing the next layer.

- h. All ditches and drains shall be constructed so they will effectively drain the subgrade from damage. In no case shall vehicles be allowed to be placed in the subgrade from damage. In no case shall vehicles be allowed to be placed in the subgrade from damage. In no case shall vehicles be allowed to be placed in the subgrade from damage.

- i. The Contractor shall be authorized by the Owner to use a vibratory plate compaction equipment on each layer to obtain uniform thickness prior to placing the next layer. The Contractor shall be authorized by the Owner to use a vibratory plate compaction equipment on each layer to obtain uniform thickness prior to placing the next layer.

3. Compaction

- a. General: Control soil compaction during construction providing minimum percentage of density specified for each area classification.

- b. Percentage of Maximum Density Requirements: Compact soil to not less than the following percentage of maximum dry density for soils which exhibit a well graded sand.

1. Low or unimodal soils: Compact top 6" of sub-grades and each layer of backfill or fill material to 90% maximum dry density.

2. Compaction under paved and surfaced areas:

- The required minimum density, by using compaction equipment consisting of not less than 10,000 lb. of weight, shall be determined by the Standard Method of Test for Moisture-Density Relations of Soils, ASTM D-1556, Method C, except that the method in the test shall be modified to not less than 35 percent of the maximum dry density. The field density determination will be made by a qualified testing laboratory using a nuclear density gauge.

3. Concrete Slabs: Compact each layer of backfill or material to 95% maximum dry density.

- c. Moisture Control: Where sub-grades or layer of soil material must be moisture conditioned, the Contractor shall be authorized by the Owner to use a vibratory plate compaction equipment on each layer to obtain uniform thickness prior to placing the next layer.

1. The sub-grade shall be prepared in accordance with Section 203.12 of the Standard Specifications.

2. Bank run gravel (gravel for sub-base) shall meet the following grading requirements (Section 704.04):

Sieve Designation	Percentage by Weight Passing Square Mesh Sieves
No. 4	20 - 60
No. 10	0 - 12
No. 20	0 - 8

- The gravel shall be uniformly graded from coarse to fine and the maximum size shall be 1 1/2 inches. The gravel shall be compacted to 95% of the maximum dry density as determined by ASTM D-1556.

3. Plant Mixed Course: This work shall consist of furnishing and placing one or more courses of crushed gravel or crushed stone, and a reasonably close conformity with the specifications, thickness and typical cross-sections shown on the plans or as established by the Engineer.

Materials

- (a) Material shall meet the requirements of the following specifications for Plant Mixed Base Course 704.03

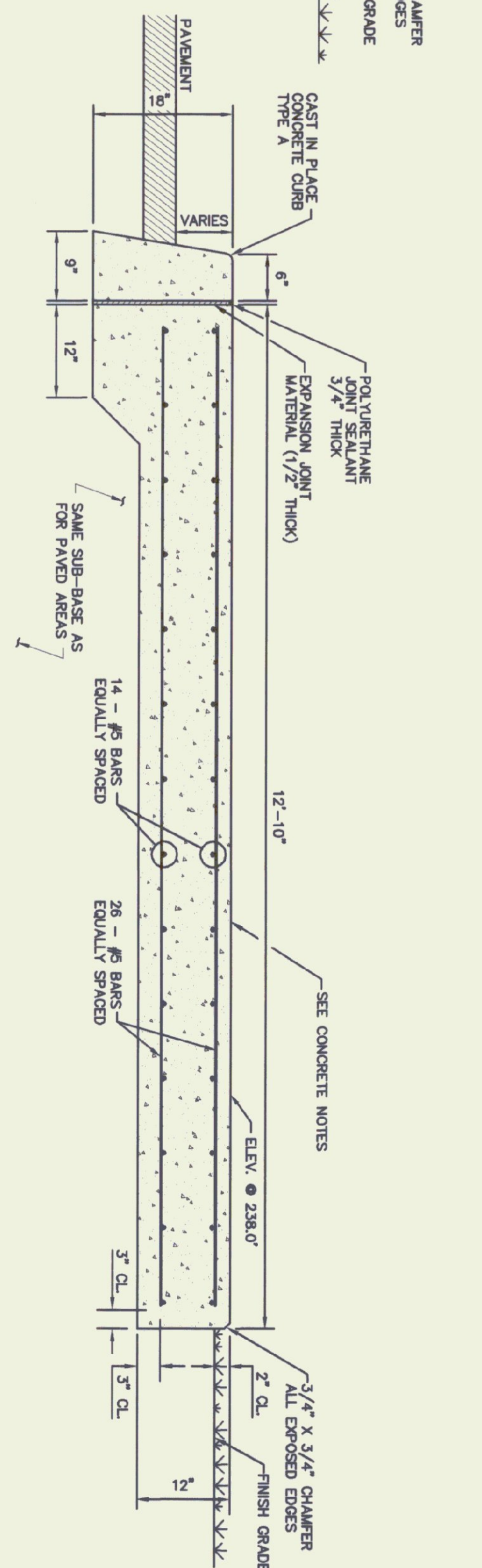
Gradation

- (b) The materials shall be combined and graded to meet the following composition limits by weight:

Sieve Designation	Percentage Passing
No. 4	100
No. 10	85 - 100
No. 20	60 - 85
No. 40	30 - 60
No. 60	15 - 40
No. 100	5 - 15



TRUCK WASH AREA SLAB SECTION
N.T.S.



FUEL TANK SLAB SECTION
N.T.S.

GENERAL SPECIFICATIONS (CONT.)

4. Grouted Gravel for Sub-base: All materials shall be secured from approved sources and shall be free of deleterious materials, such as organic or other deleterious rock of uniform quality throughout, reasonably free from thin elongated pieces, soft or disintegrated stone, dirt, organic or other deleterious material. The materials shall conform to the following table (Section 704.05 - Fine):

Sieve Designation	Percentage by Weight Passing Square Mesh Sieves
2"	100
1 1/2"	90 - 100
1"	75 - 100
3/4"	0 - 12
No. 100	0 - 12
No. 200	0 - 6

The crushed gravel shall be compacted to 95% of the maximum dry density as determined by ASTM D-1556.

5. Dense Graded Crushed Stone for Sub-base: Dense graded crushed stone shall be obtained from approved sources and shall be free of deleterious materials, such as organic or other deleterious material. The materials shall conform to the following table (Section 704.05 - Fine):

Sieve Designation	Percentage by Weight Passing Square Mesh Sieves
3 1/2"	100
3"	90 - 100
2 1/2"	75 - 100
2"	50 - 80
1 1/2"	30 - 60
1"	15 - 40
3/4"	0 - 6
No. 200	0 - 6

6. Gravelly Backfill for Structures: Gravelly backfill for structures shall be obtained from approved sources. It shall consist of satisfactorily graded, free draining material reasonably free from loam, silt, clay, and organic material.

Sieve Designation	Percentage by Weight Passing Square Mesh Sieves
3"	100
No. 4	45 - 75
No. 10	0 - 12
No. 20	0 - 6

7. Blumhous Concrete Pavement: The materials, grading and composition shall meet the requirements of the Vermont Agency of Transportation Standard Specifications Sections 406, 702, and 704.10. Other requirements are as follows: Application of blumhous concrete pavement shall be in accordance with the Vermont Agency of Transportation Standard Specifications, Section 406, or as periodically amended, but not limited to, the following:

- a. Weather Limitations: Blumhous material shall not be placed between November 1, and May 1. Material shall not be placed when the air temperature is below 40 degrees Fahrenheit and/or when the wet surface is below 40 degrees Fahrenheit.

- b. Compaction: Immediately after the blumhous mixture has been applied, struck off, and surface irregularities reduced, it shall be thoroughly and uniformly compacted by rolling. Using forms, curbs, and other structures shall be thoroughly compacted with hot or lightly oiled hand tampers, smoothing tools, or mechanical tampers. On depressed areas, the material may be compacted by the use of a vibratory plate compaction equipment.

- c. Surface Tolerances: The surface will be tested by the Engineer using a 16-foot straightedge of selected locations parallel with the centerline. Any voids exceeding 3/16 of an inch between any surface and the straightedge shall be corrected. The straightedges shall be provided by the Contractor.

- d. Matching Surfaces: When a new pavement is to match an existing blumhous pavement for a roadway or trench, the Contractor shall maintain a minimum of one foot (1') into the existing pavement, over the existing gravel base. The smooth cut shall be thoroughly cleaned and coated with Emulsion Asphalt, RS-1, just prior to paving.

8. Stabilization Fabric: Stabilization fabric where required by the Engineer shall be woven geotextile or geogrid. The fabric shall be installed in accordance with the manufacturer's requirements.

9. All pavement markings shall be V-1, 7.05 Feet By White Traffic Paint.

- c. Drainage Systems

1. All culverts and storm drains shall meet the requirements of Section 601 of the Standard Specifications.

2. At the Contractor's option, the following materials may be used for the storm drainage:

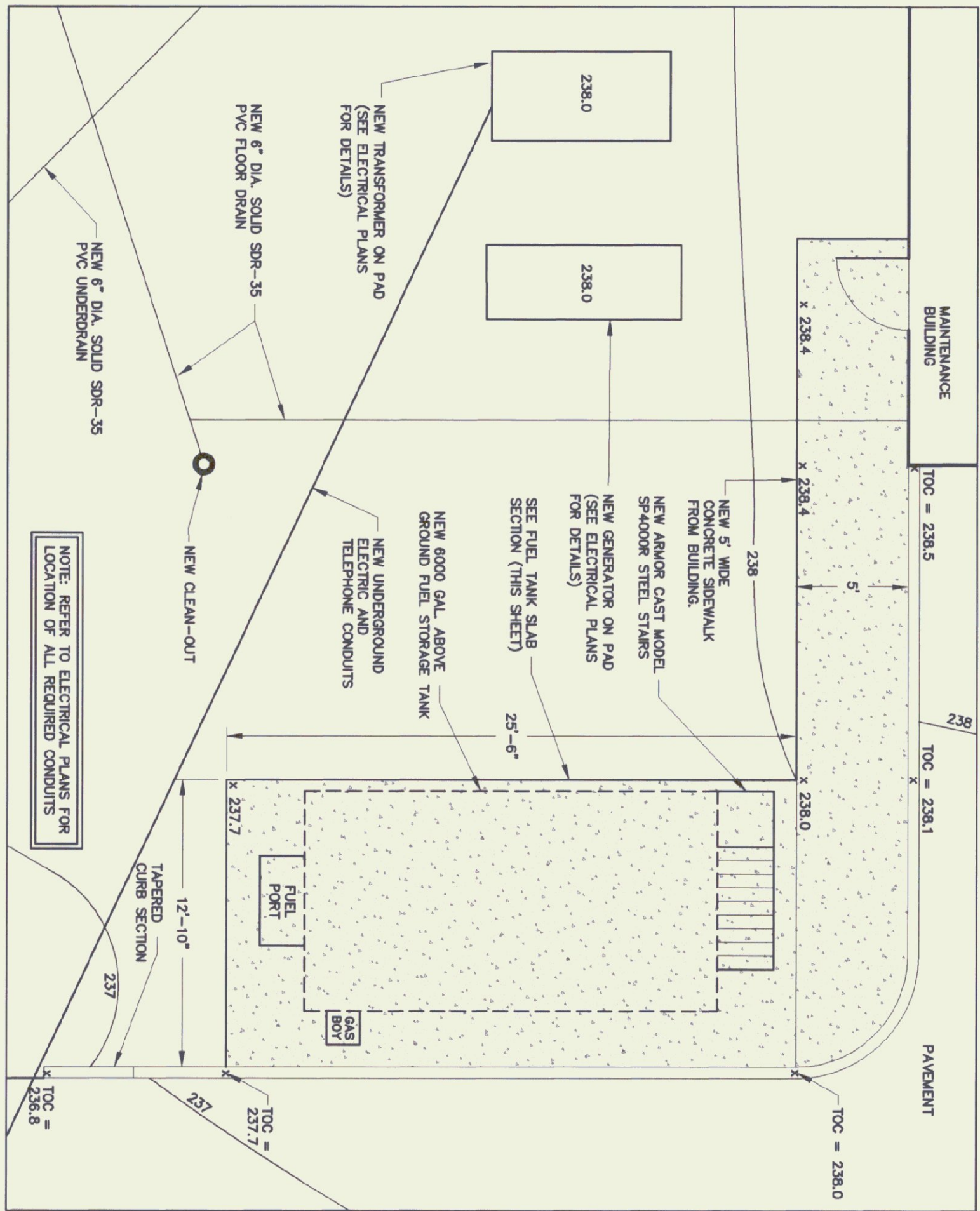
- a. Polyvinyl Chloride pipe conforming to ASTM Specification D2234 or

- b. Reinforced concrete pipe meeting the requirements of Section 710.01, c. Corrugated Polyethylene pipe meeting the requirements of Section 710.03.

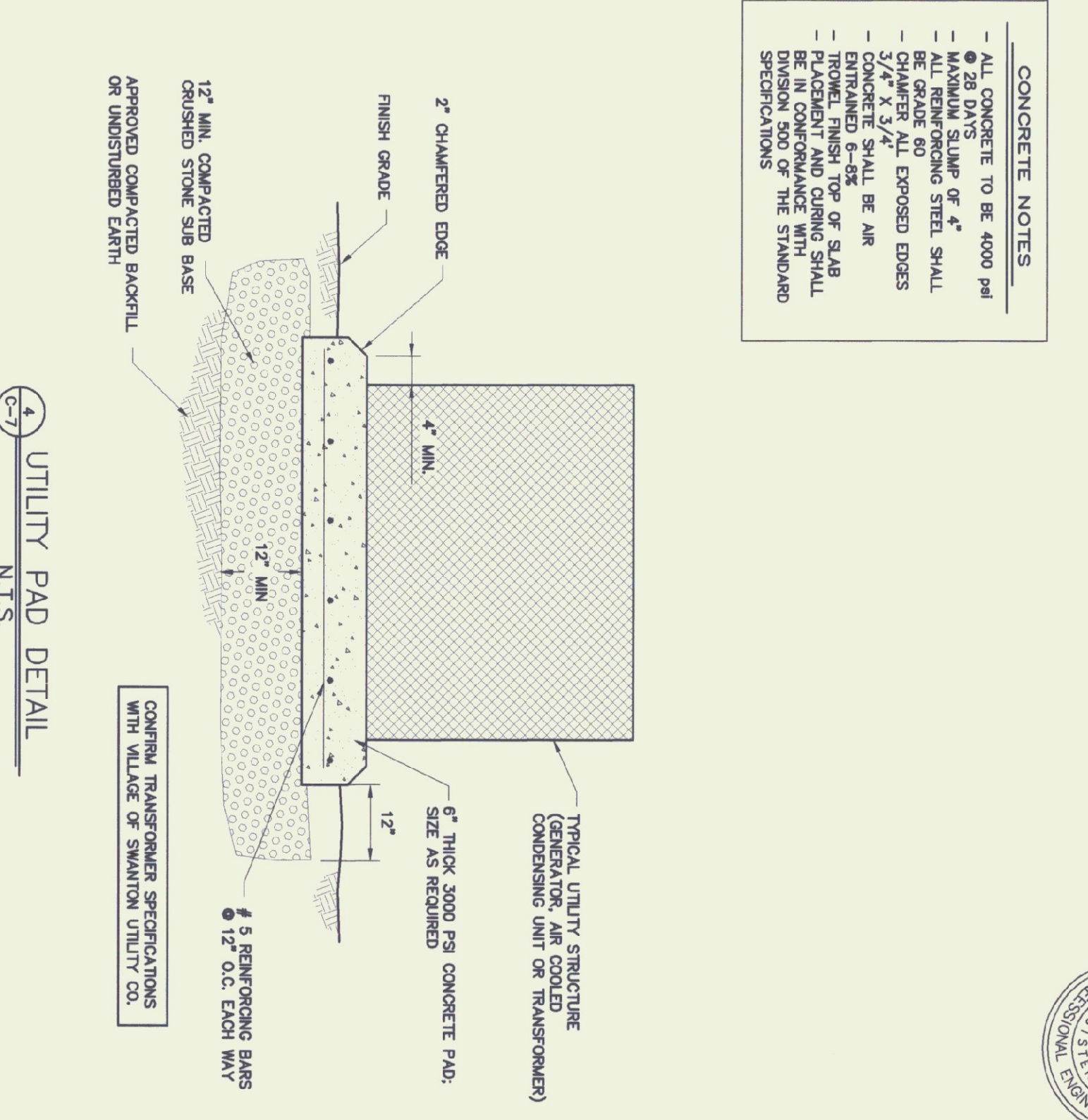
- d. Corrugated aluminum alloy pipe meeting the requirements of Section 711.02.

- Underground Utilities

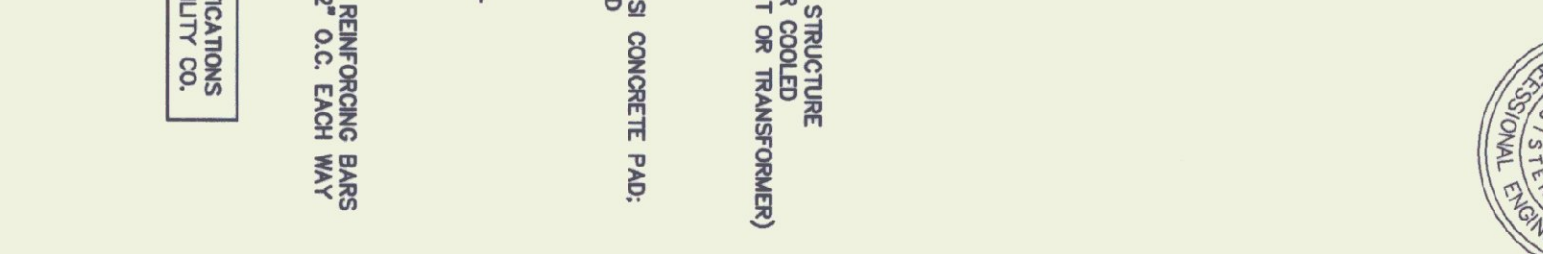
- For underground electrical and telephone (cable) services, the Contractor shall trench, place bedding, place conduit, and backfill in accordance with the utility company's requirements.



FUEL TANK AREA PLAN
SCALE: 1" = 5'



UTILITY PAD DETAIL
N.T.S.



ENTRANCE GATE DETAIL
N.T.S.



ENTRANCE GATE POSTS DETAIL
N.T.S.

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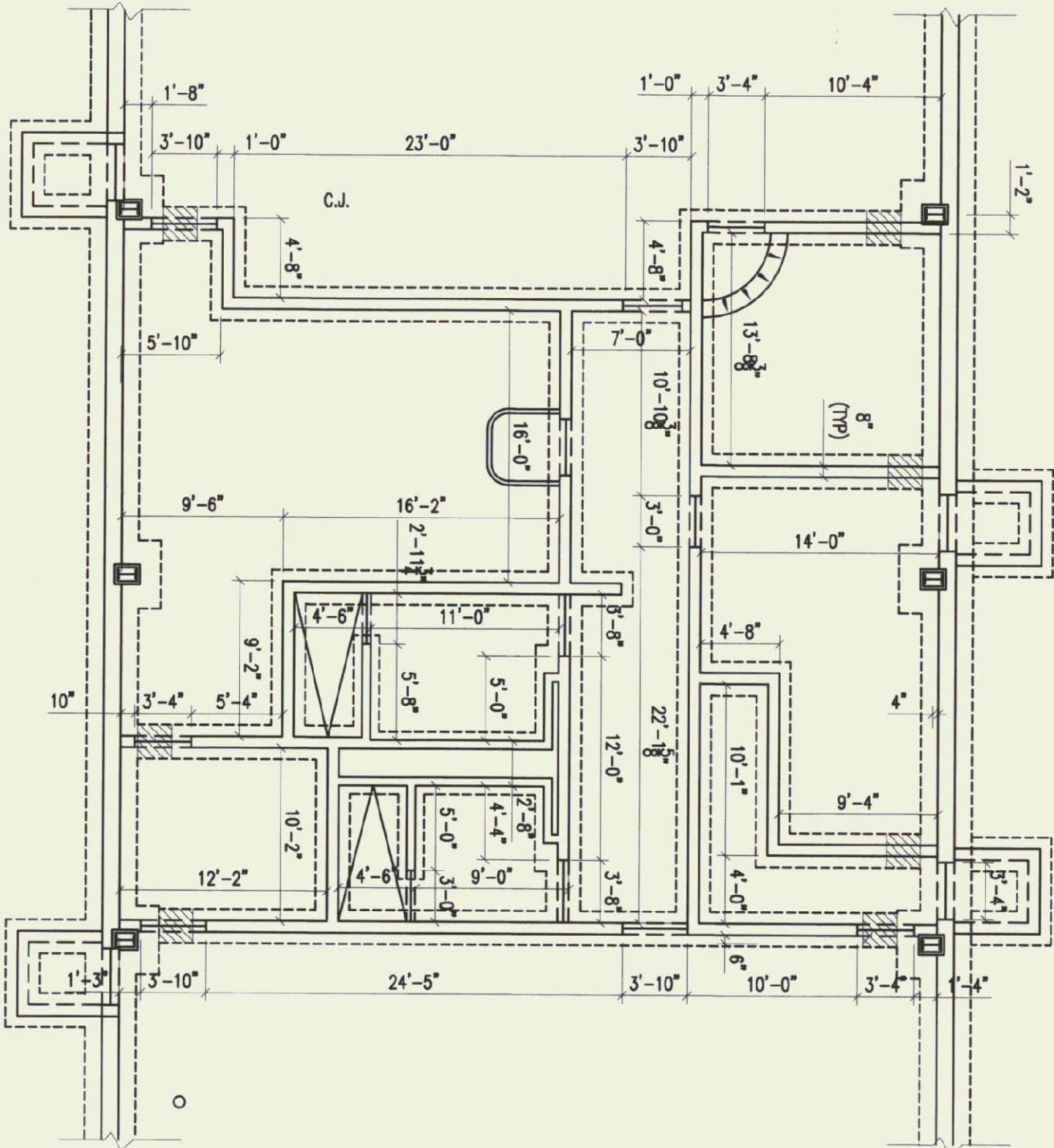
STATE OF VERMONT
DEPARTMENT OF BUILDINGS AND GENERAL SERVICES
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT

AGENCY OF TRANSPORTATION
HIGHGATE MAINTENANCE FACILITY
HIGHGATE VERMONT

REVISIONS
SCALE: AS NOTED
DATE: 09/24/01
DRAWN BY: CCE
APPR. BY: PD
HIGHGATE
MAINTENANCE
GARAGE
DETAILS AND
SPECIFICATIONS

FOUNDATION PARTIAL PLAN - CORE AREA

1/8" = 1'-0"



- NOTES:
- 1) TOP OF FOOTING AT EXTERIOR WALL [234.50']
 - 2) TOP OF FOOTING AT INTERIOR WALL [238.50']
 - 3) TOP OF REIN ON COLUMN LINE "A" TO BE AT ELEVATION 238.17'
 - 4) ALL COLUMNS TO BE W12x40.
 - 5) ON GRADE CONCRETE SLABS IN PARKING AND MECHANICAL BAYS TO SLOPE DOWN AT 1/8" PER 1'-0" FROM REAR OF BUILDING TO THE FRONT.
 - 6) ON GRADE CONCRETE SLABS IN PARKING AND MECHANICAL BAYS TO HAVE IN SLOPE DRAINAGE SYSTEM, SEE MECHANICAL DRAWINGS.
 - 7) C.I. - CONTROL JOINT, OR CONSTRUCTION JOINT, SEE DETAIL 6/5-21
 - 8) E.I. - EXPANSION JOINT, SEE DETAIL 6/5-21

BASIS OF DESIGN

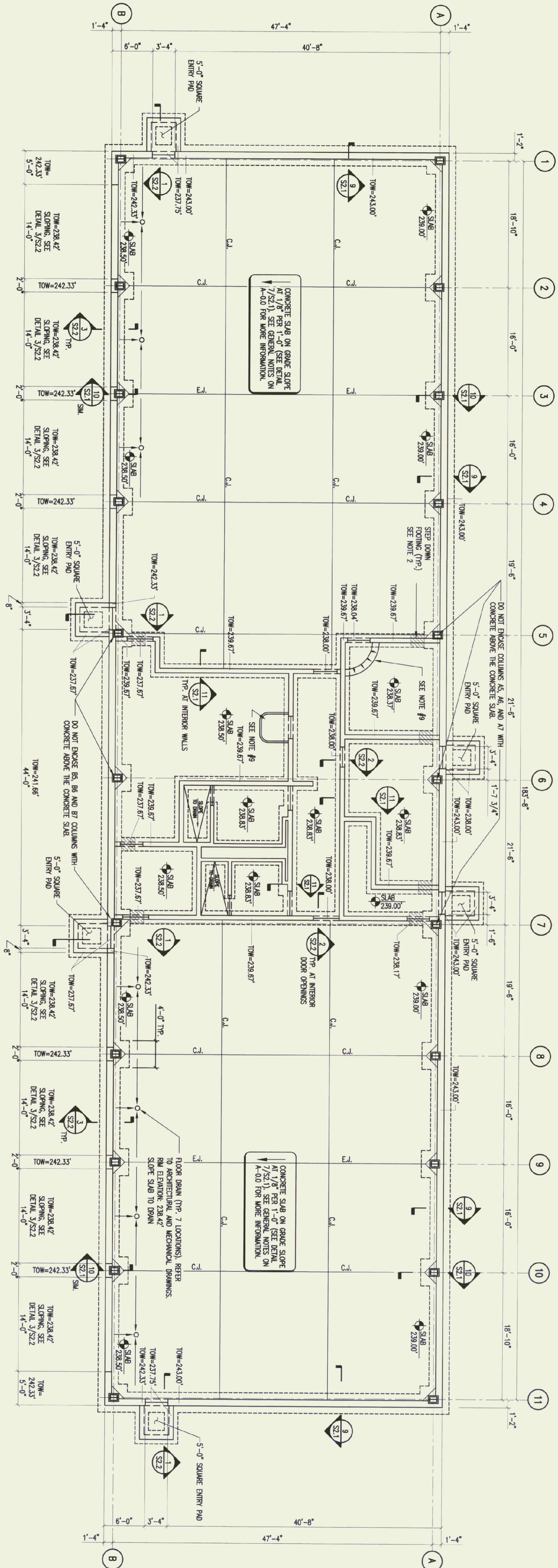
BUILDING CODE:	1986 BOCA CODE
DEAD LOADS:	20 psf
ROOF LOADS:	40 psf
LIVE LOADS:	40 psf
MEZZANINE LIVE LOAD:	125 psf
SNOW LOADS:	40 psf
EXPOSURE FACTOR:	0.9
WIND LOADS:	40 psf
WIND SPEED:	70 mph
WIND DIRECTION:	70 mph
WIND CATEGORY:	C
WIND FACTOR:	1.15
SEISMIC HAZARD EXPOSURE GROUP:	III
SEISMIC CATEGORY:	C
SEISMIC PERFORMANCE CATEGORY:	0.15
ASSUMED SOIL BEARING CAPACITY:	3000 psf

STRUCTURAL DRAWING LIST

- S1.0 FOUNDATION PLAN
- S1.1 WALL PLAN
- S1.2 ROOF FRAMING PLAN
- S2.1 STRUCTURAL DETAILS
- S2.2 STRUCTURAL DETAILS
- S3.1 STRUCTURAL DETAILS

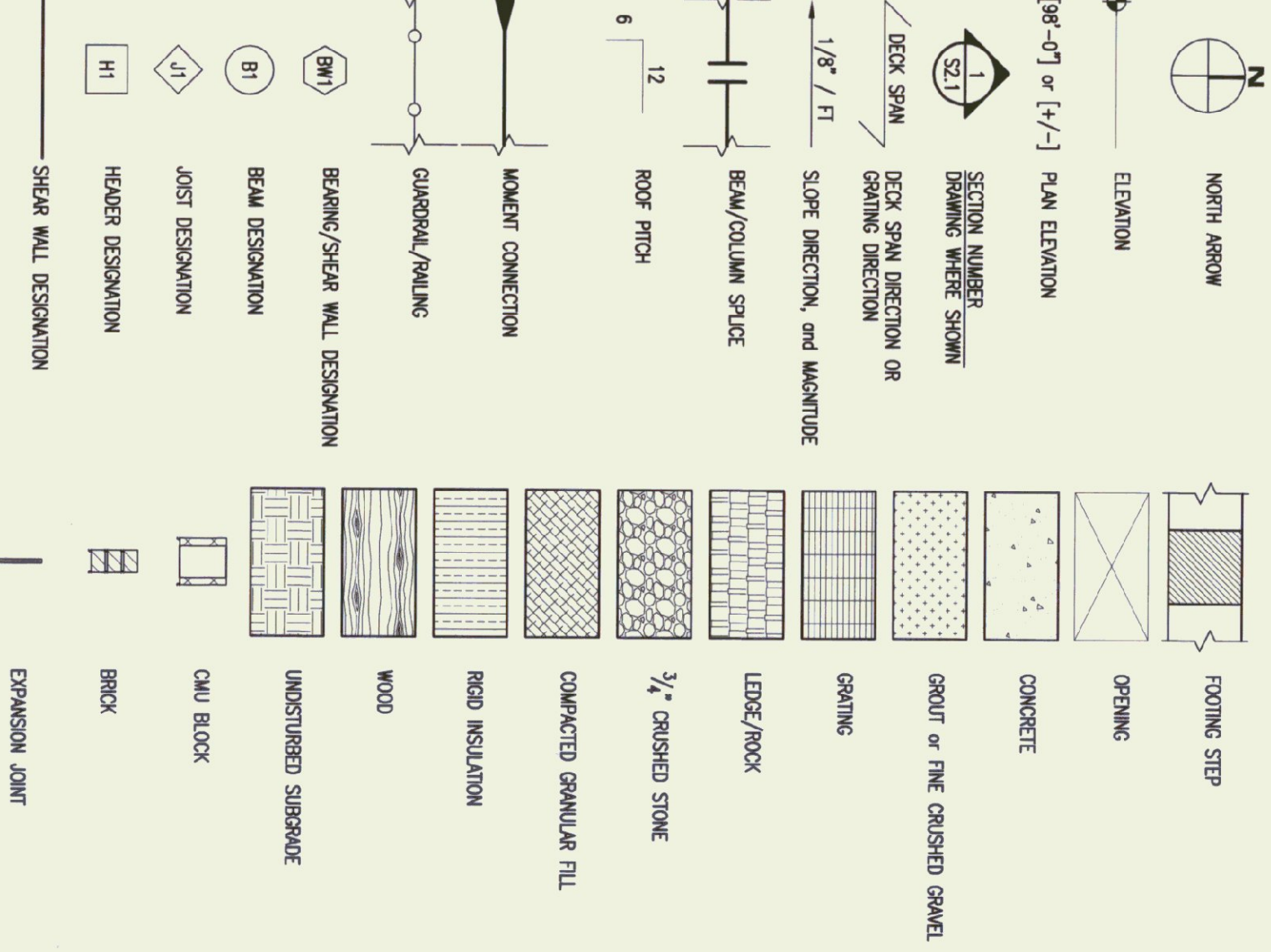
FOUNDATION PLAN

1/8" = 1'-0"



DRAWING LEGEND

NOTE: NOT ALL SYMBOLS AND NOTATIONS USED



ABBREVIATIONS

AB	ANCHOR BOLT	NS	NEAR SIDE
AF	ABOVE FINISH FLOOR	OC	ON CENTER
AL	ALUMINUM	PF	PER FOR DESIGNATION
BO	BOTTOM OF FOOTING	PL	PLATE
DR	DRAWING	SS	STAINLESS STEEL
ELEV	ELEVATION	STD	STANDARD
EF	EACH FACE	TOC	TOP OF CONCRETE
ES	EACH SIDE	TOT	TOP OF FOOTING
EW	EACH WAY	TOS	TOP OF STEEL
EQ	EQUAL	TOS	TOP OF STEEL
EX	EXISTING	TOW	TOWERS
FJ	FOUNDATION DESIGNATION	TYP	TYPICAL
FND	FOUNDATION	UNO	UNLESS NOTED OTHERWISE
FS	FACE SIDE	VF	VERTICAL IN FIELD
INC	NOT IN CONTRACT		



AGENCY OF TRANSPORTATION
HIGHGATE MAINTENANCE FACILITY
HIGHGATE VERMONT



STATE OF VERMONT
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AND GENERAL SERVICES
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MONTPELIER, VERMONT

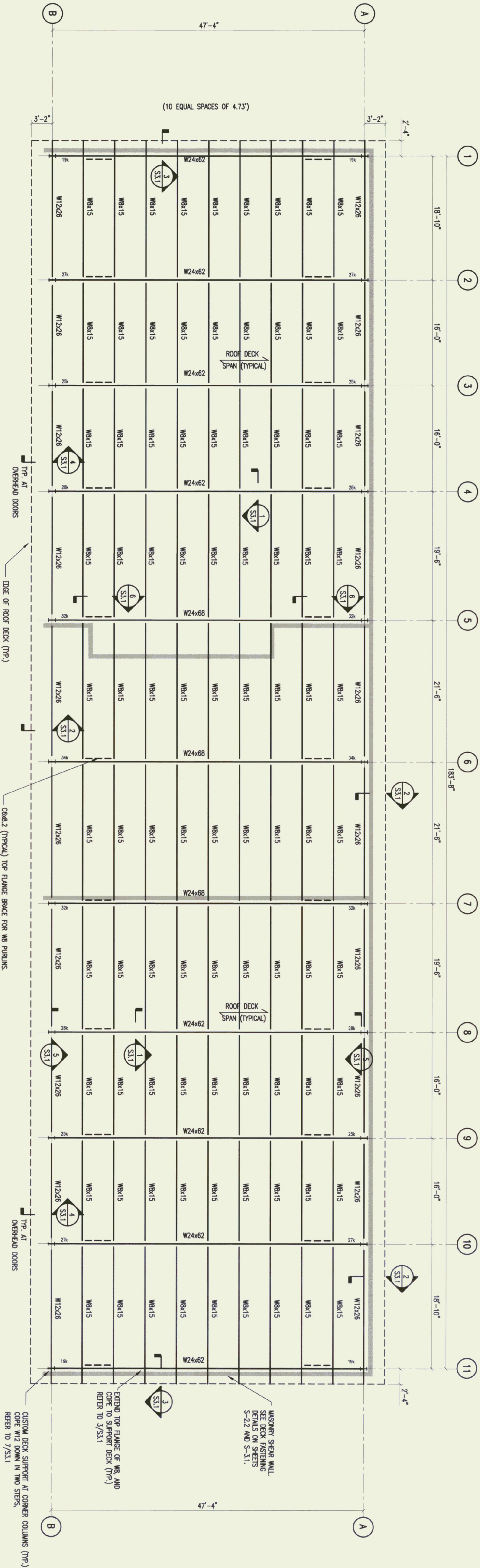


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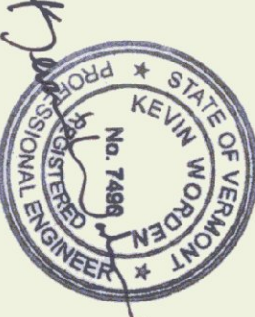
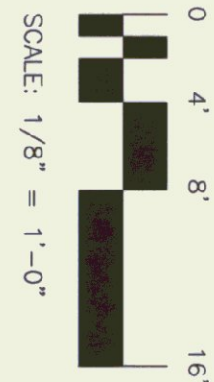
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ROOF FRAMING PLAN

- NOTES:
- 1.) ROOF PITCH IS APPROXIMATELY 1/4" PER 1'-0" FROM B LINE TO A LINE.
TOP OF COLUMNS ON COLUMN LINE "A" AT ELEVATION 255.67 FT.
TOP OF COLUMNS ON COLUMN LINE "B" AT ELEVATION 256.70 FT.
 - 2.) THE ROOF DECK (SHEAR DIAPHRAGM) SHALL BE 1 1/2" TYPE B 20 GA. STEEL DECKING WITH A 35/4 WELD PATTERN (5/8" WEIDS) AND TWO SIDE LAP FASTENERS PER SPAN. (REFER TO SPECIFICATIONS.)
 - 3.) ALL STEEL BEAM CONNECTIONS TO BE SIZED TO MEET OR EXCEED THE MINIMUM REACTION SHOWN.
USE 60 KIPS MINIMUM WHERE REACTION NOT SPECIFIED.
USE MINIMUM 2 BOLT CONNECTION FOR W8 PURLINS AND W12 BEAMS.



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MONTPELIER, VERMONT

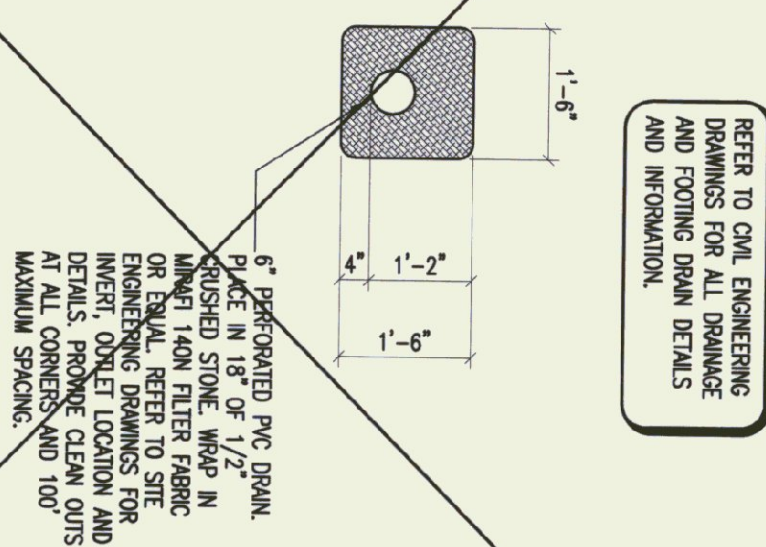


AGENCY OF TRANSPORTATION
HIGHGATE MAINTENANCE FACILITY
HIGHGATE VERMONT

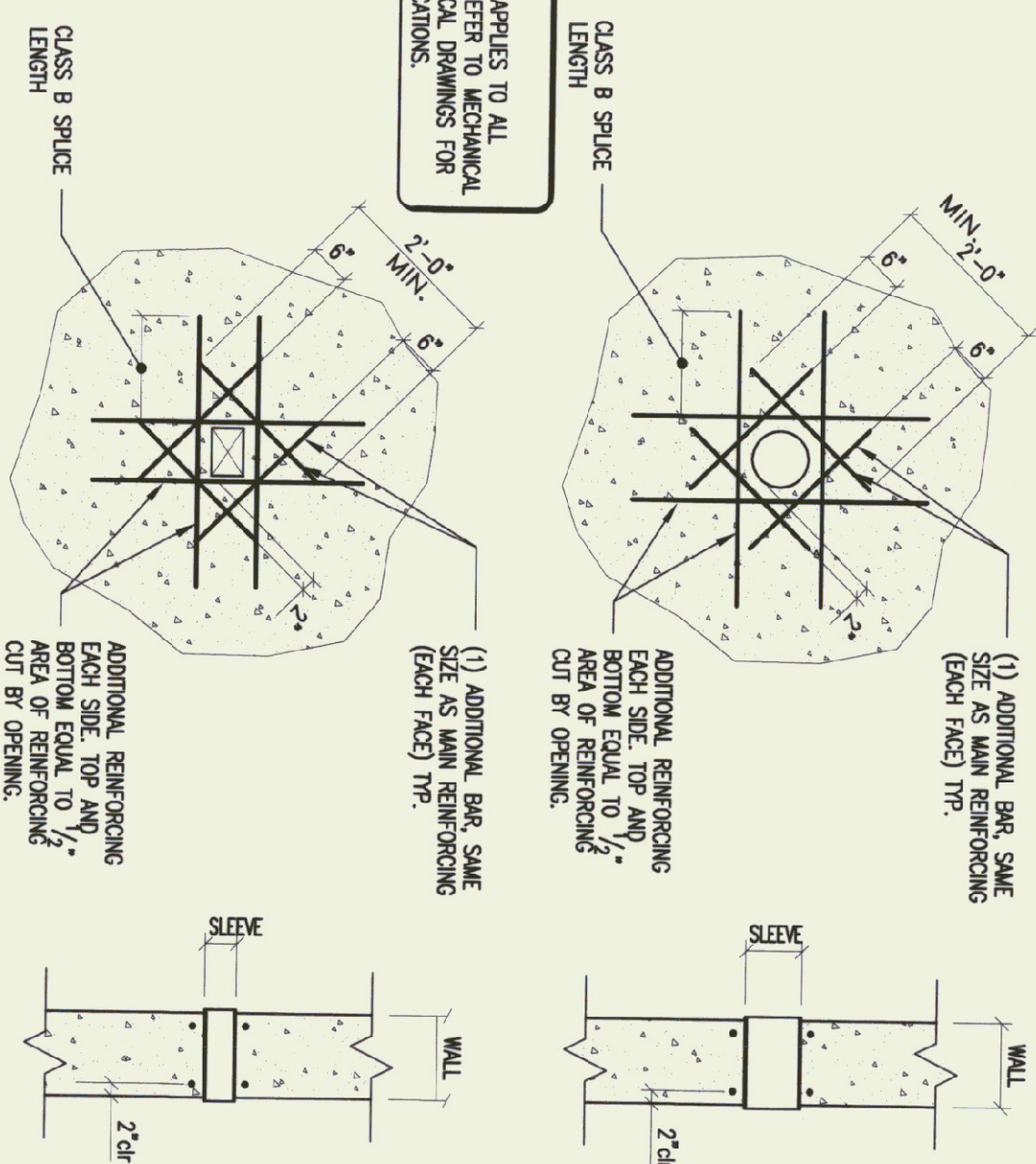
REVISIONS	

SCALE: AS NOTED
DATE: 9/24/01
DRAWN BY: WP/MLJ
APPR. BY: WP/KW

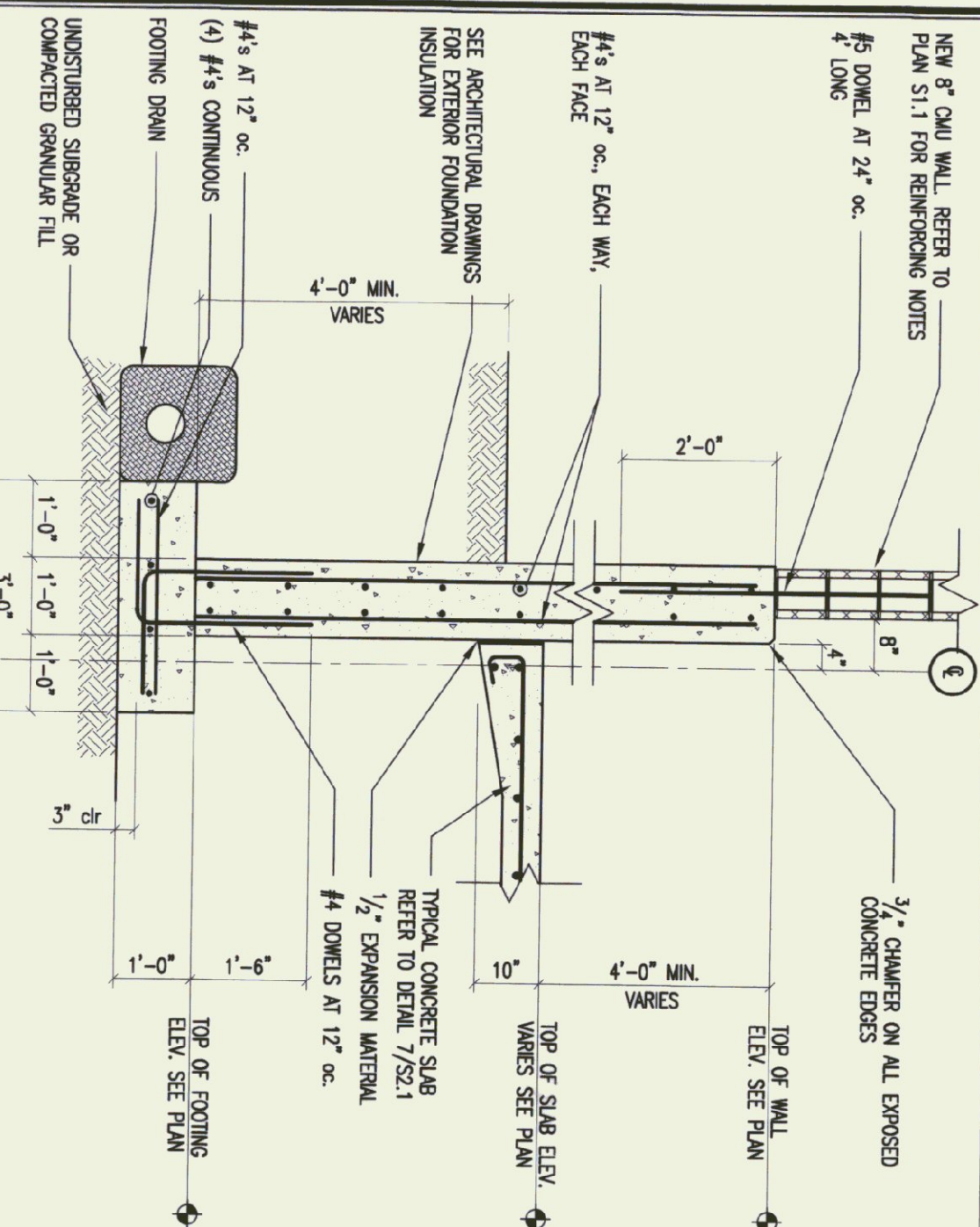
HIGHGATE
MAINTENANCE
GARAGE
ROOF FRAMING
PLAN



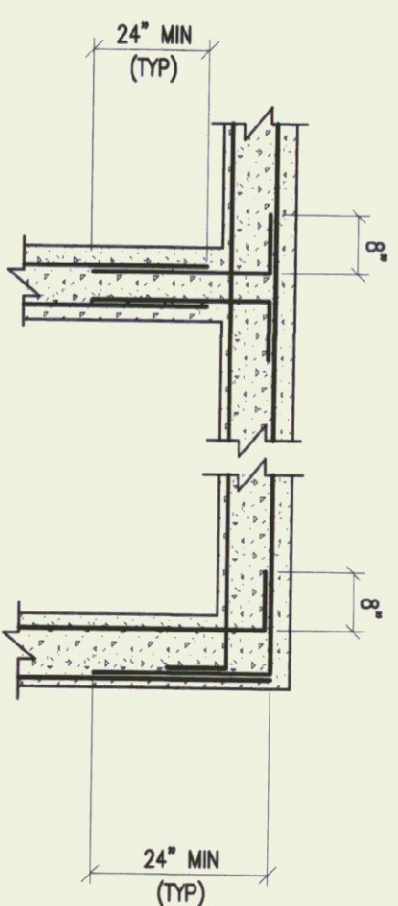
TYPICAL FOOTING DRAIN DETAIL



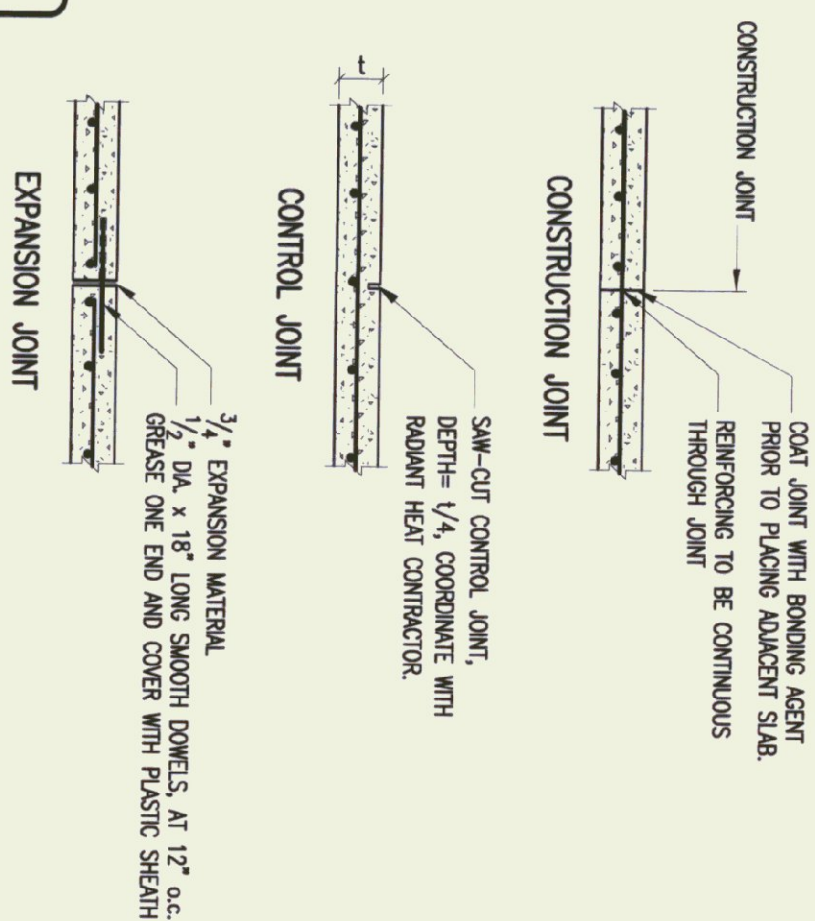
TYPICAL WALL OPENING DETAIL



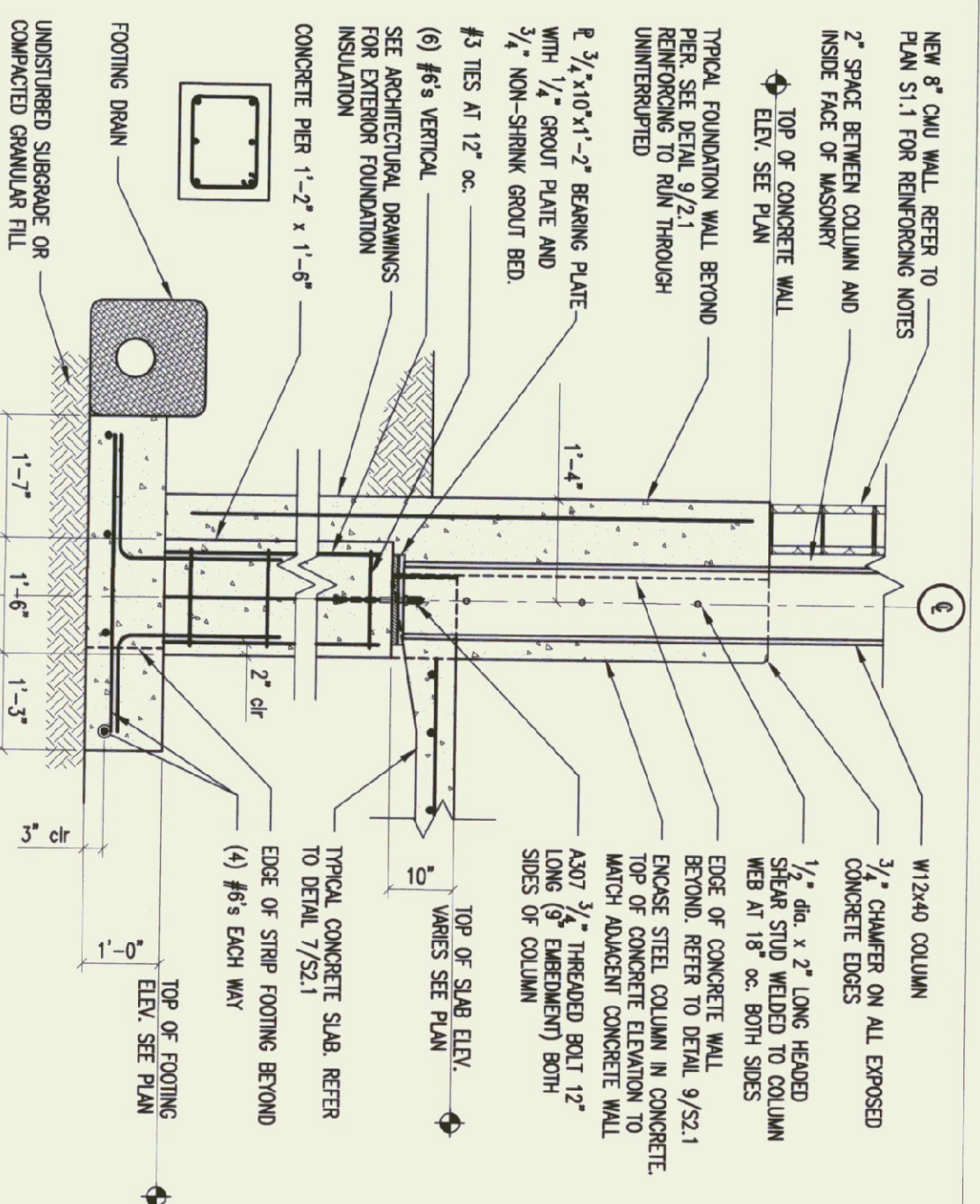
TYPICAL FOUNDATION WALL DETAIL



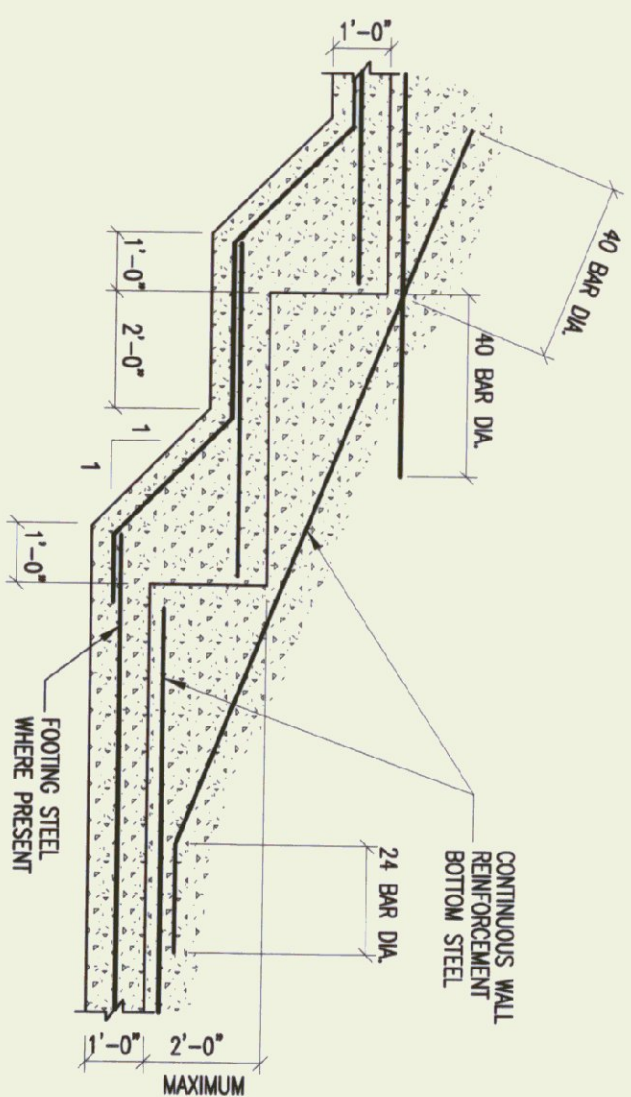
CORNER REINFORCING DETAIL



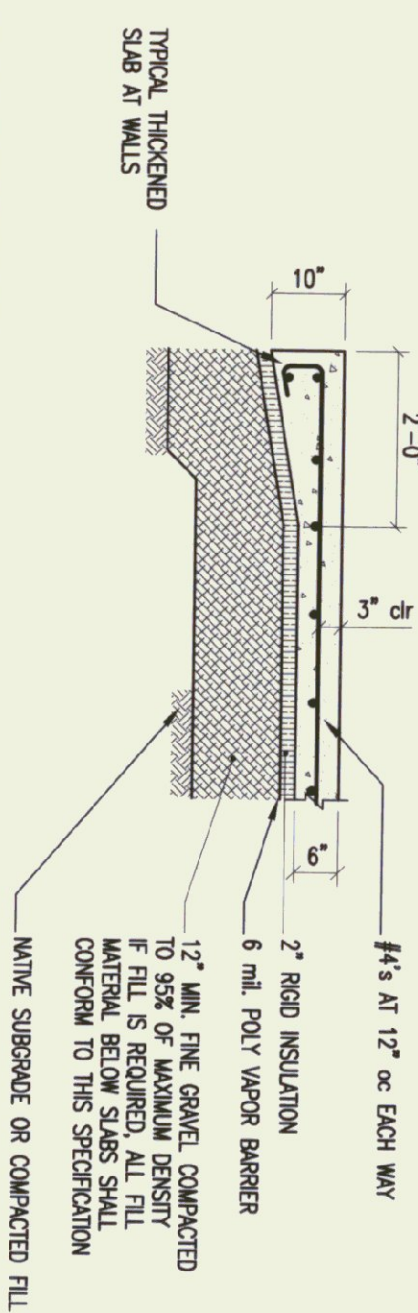
TYPICAL SLAB JOINTS



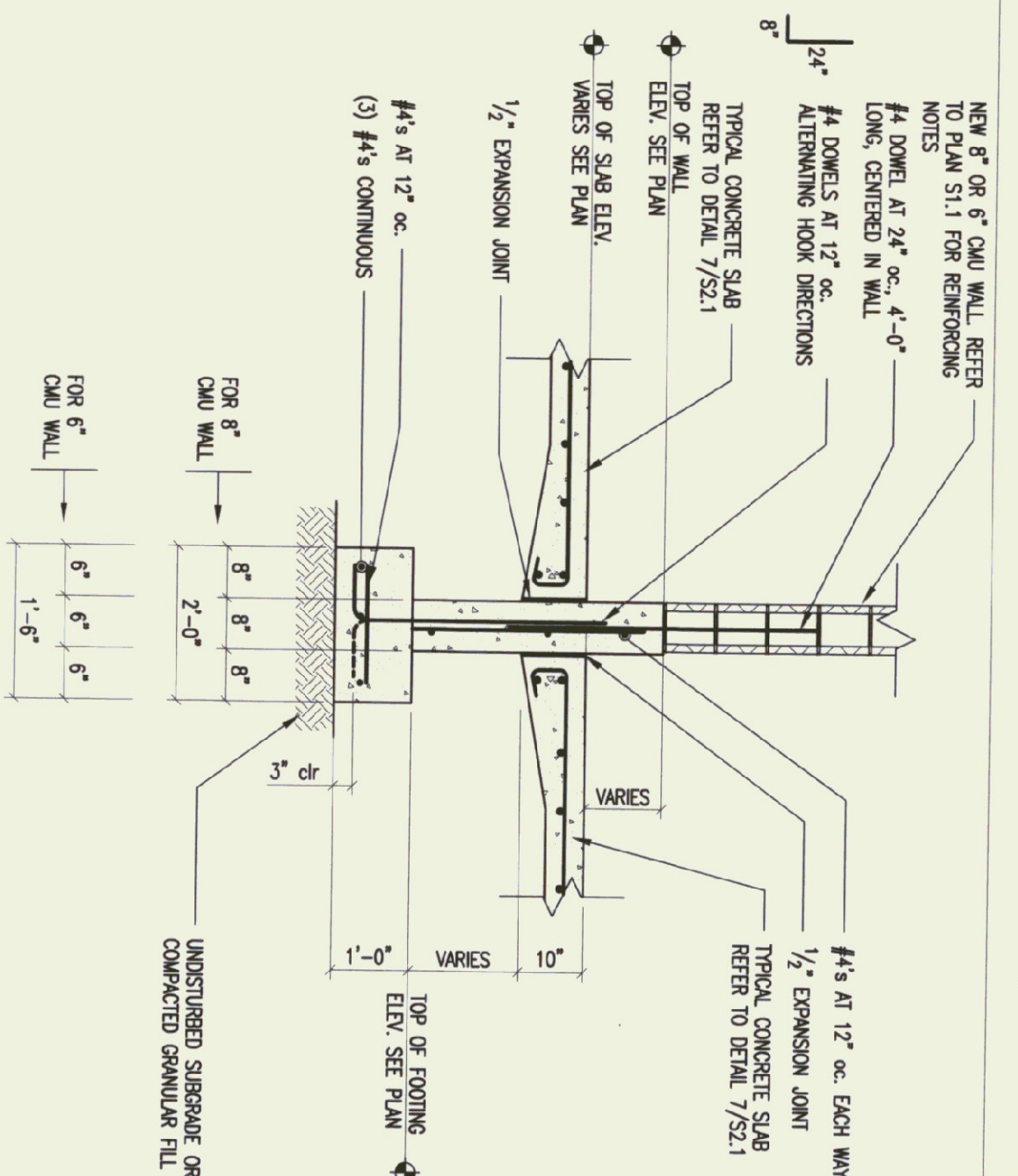
TYPICAL COLUMN PIER AND FOOTING DETAIL



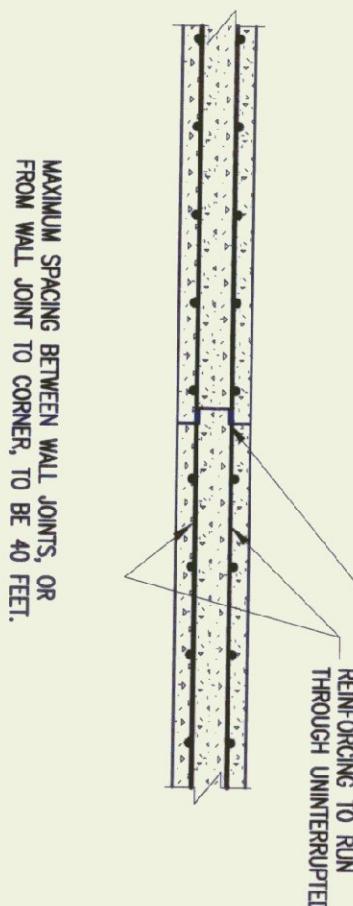
TYPICAL FOOTING STEP



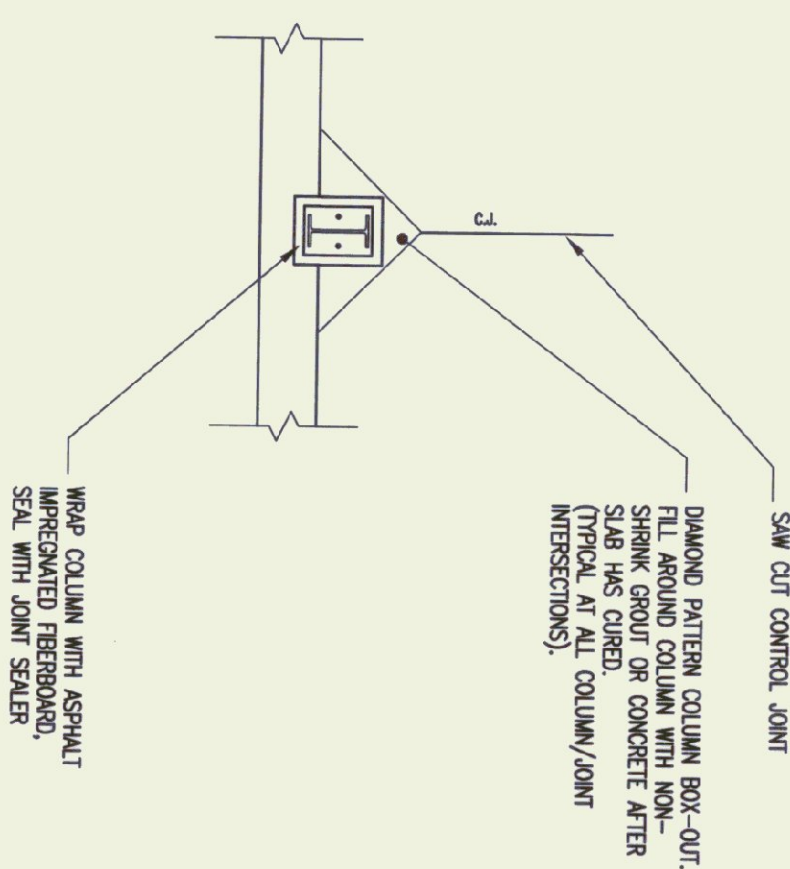
MAINTENANCE BUILDING TYPICAL SLAB ON GRADE



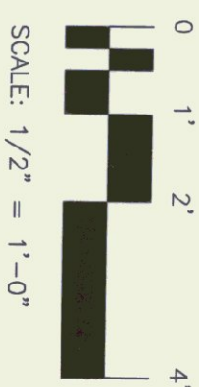
TYPICAL INTERIOR STRIP FOOTING DETAIL

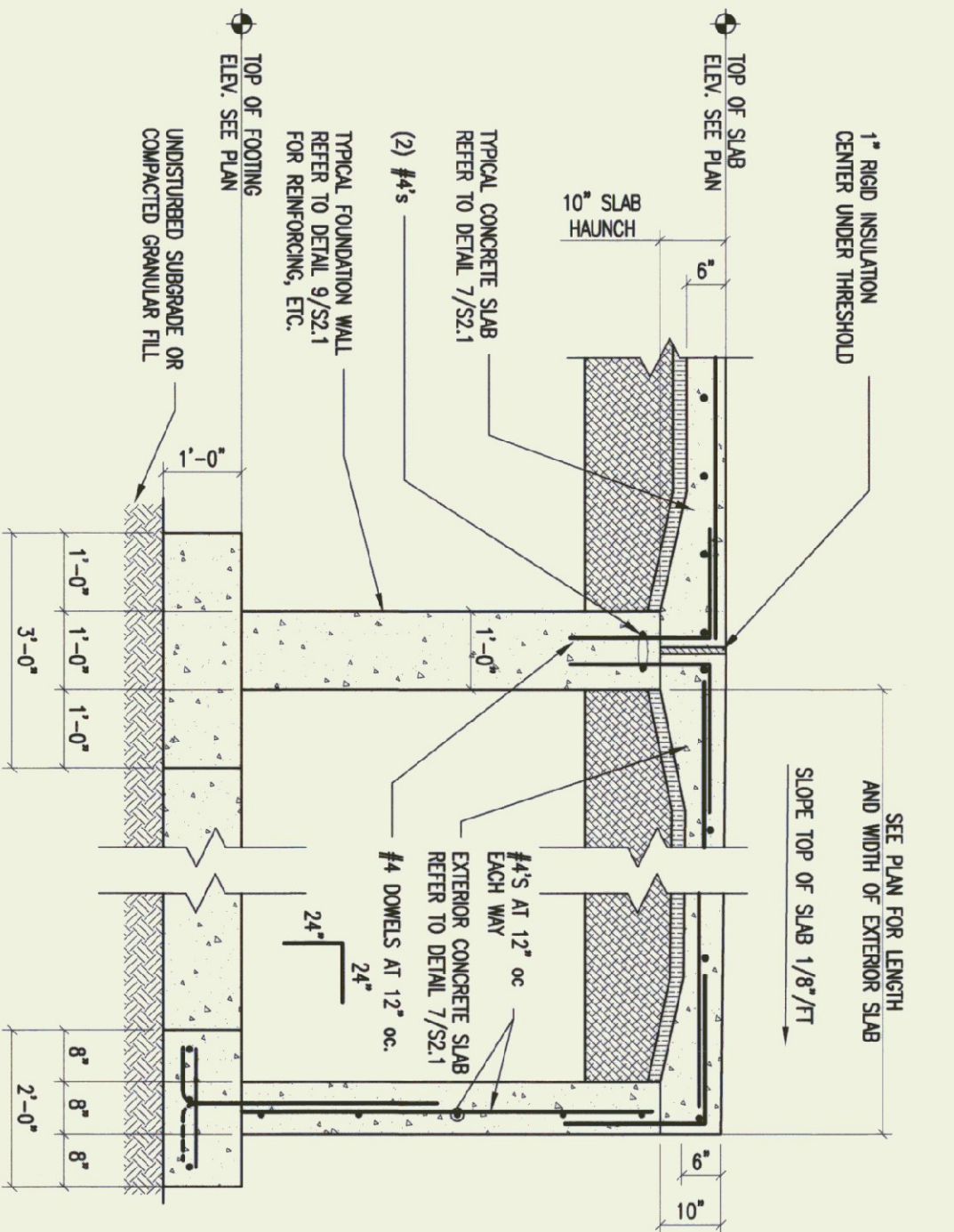


WALL CONSTRUCTION JOINT

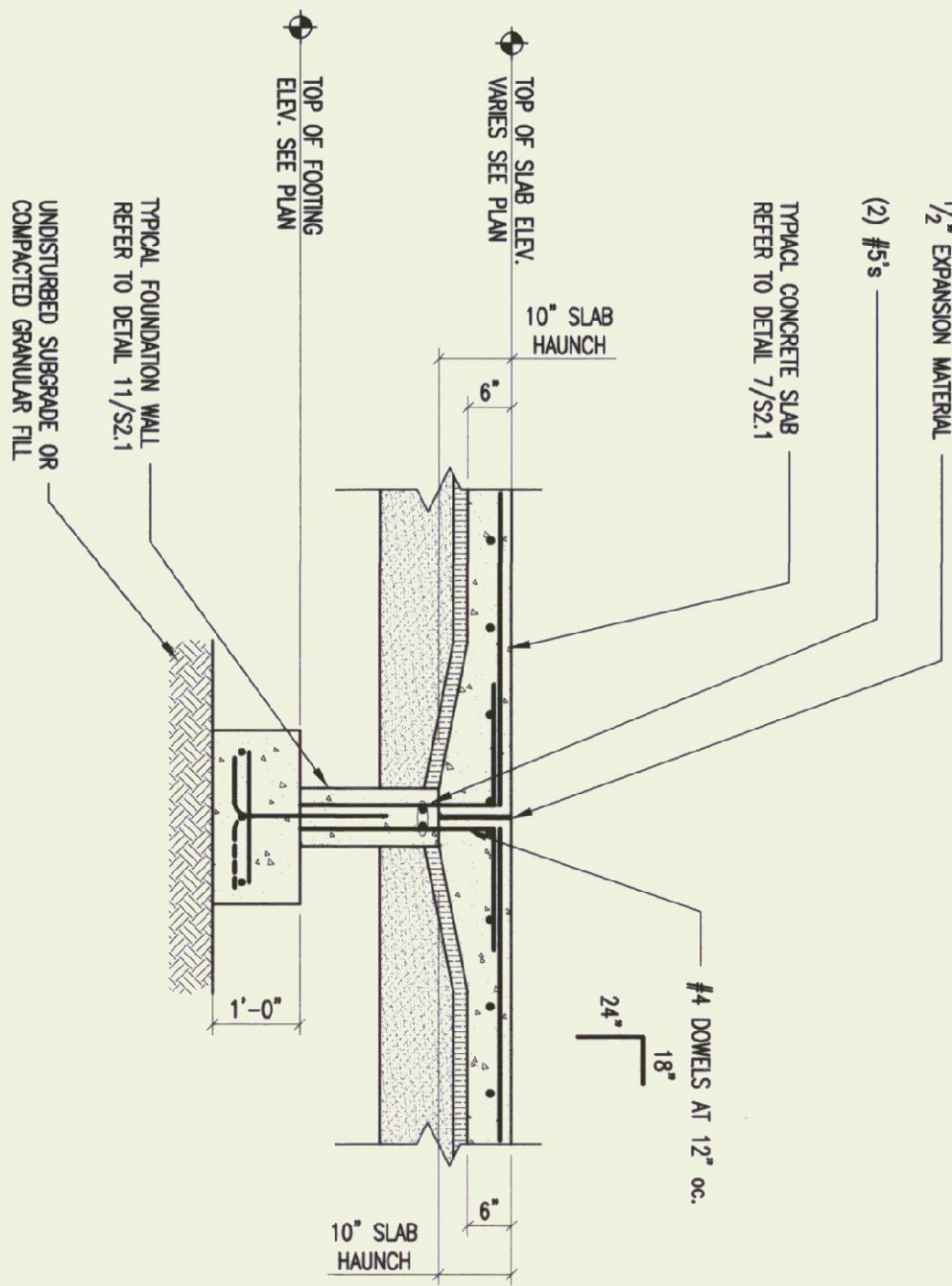


TYPICAL CONTROL JOINT AT COLUMN

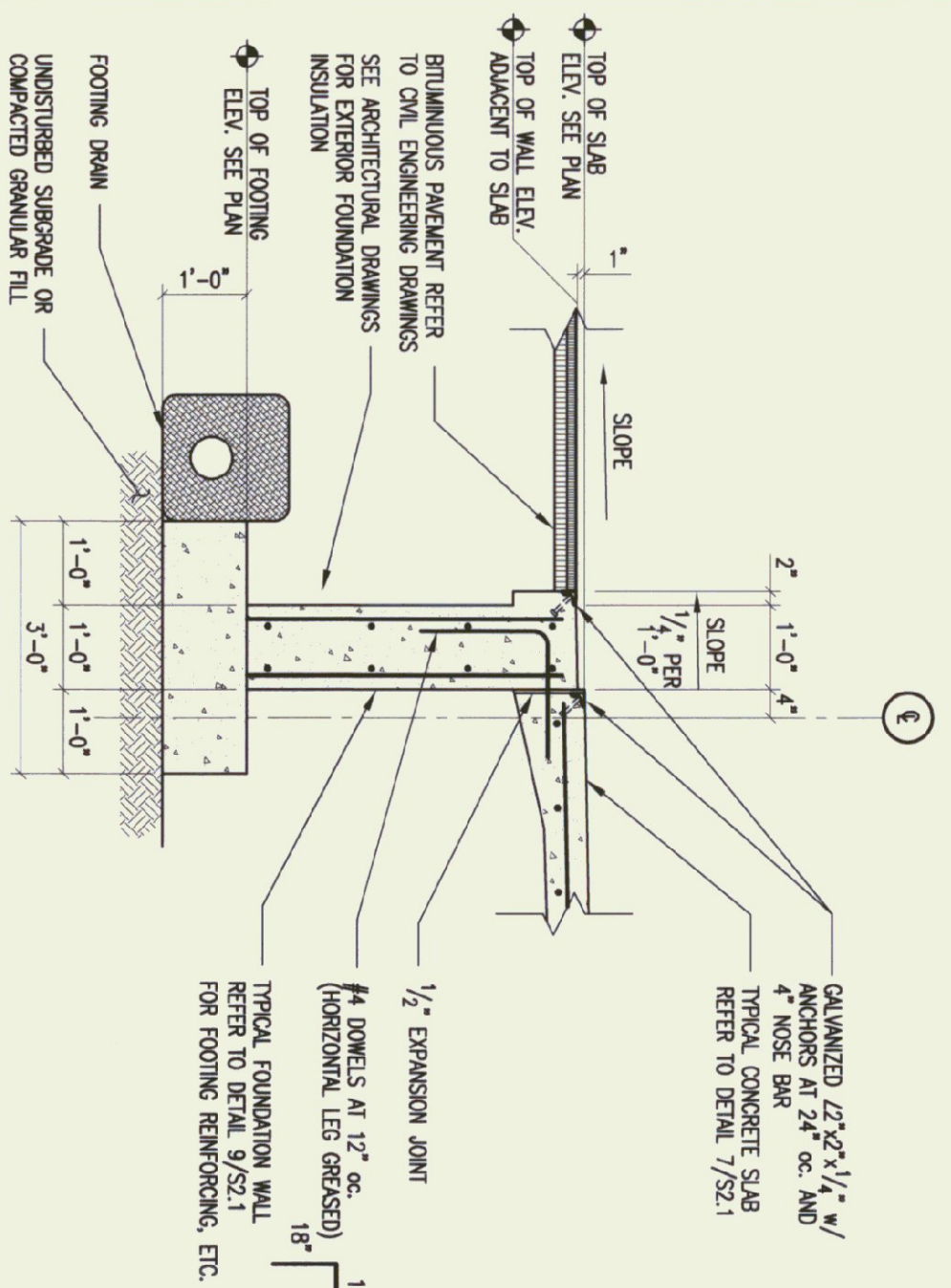




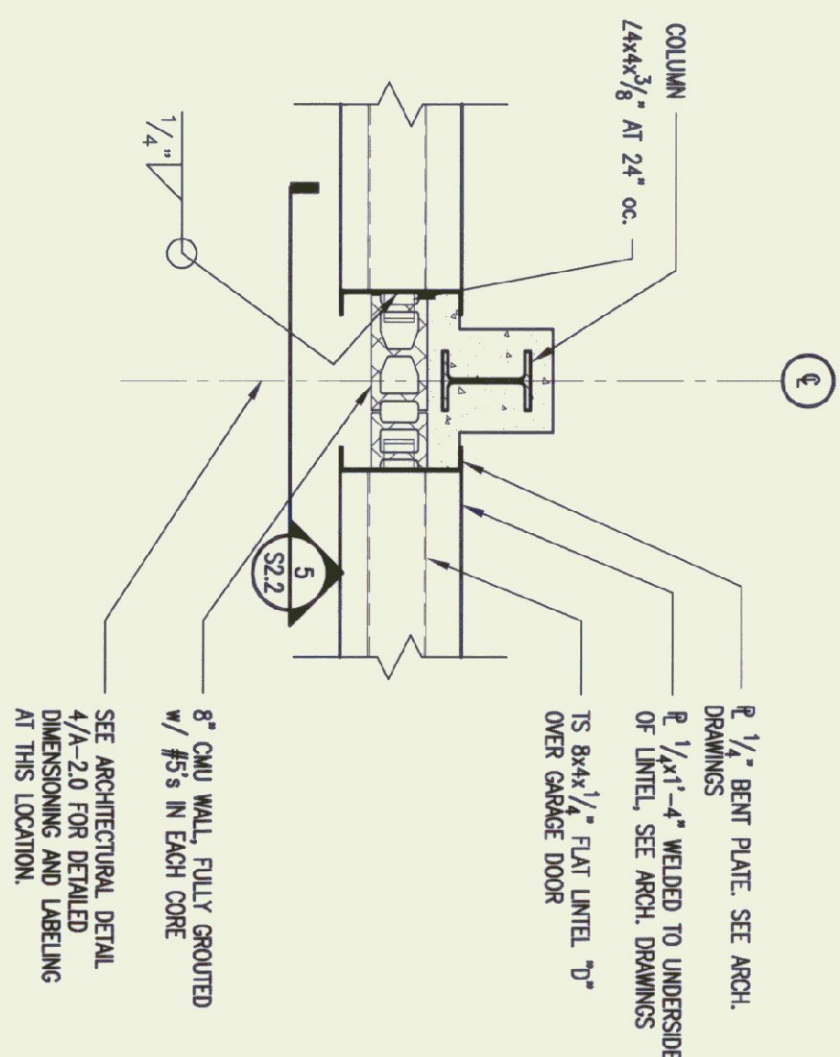
TYPICAL ENTRY SLAB AT EXTERIOR DOOR



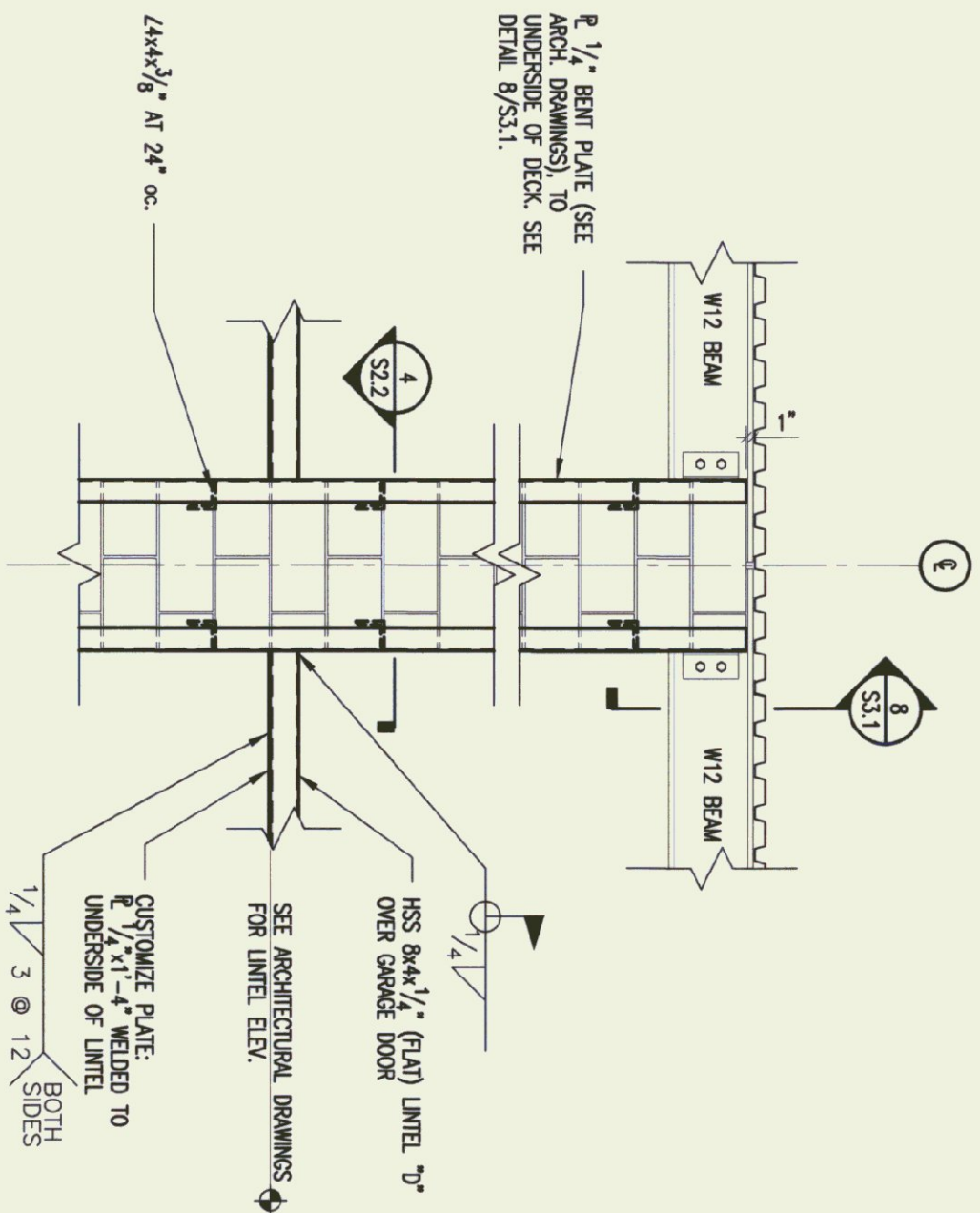
TYPICAL SLAB AT INTERIOR DOOR



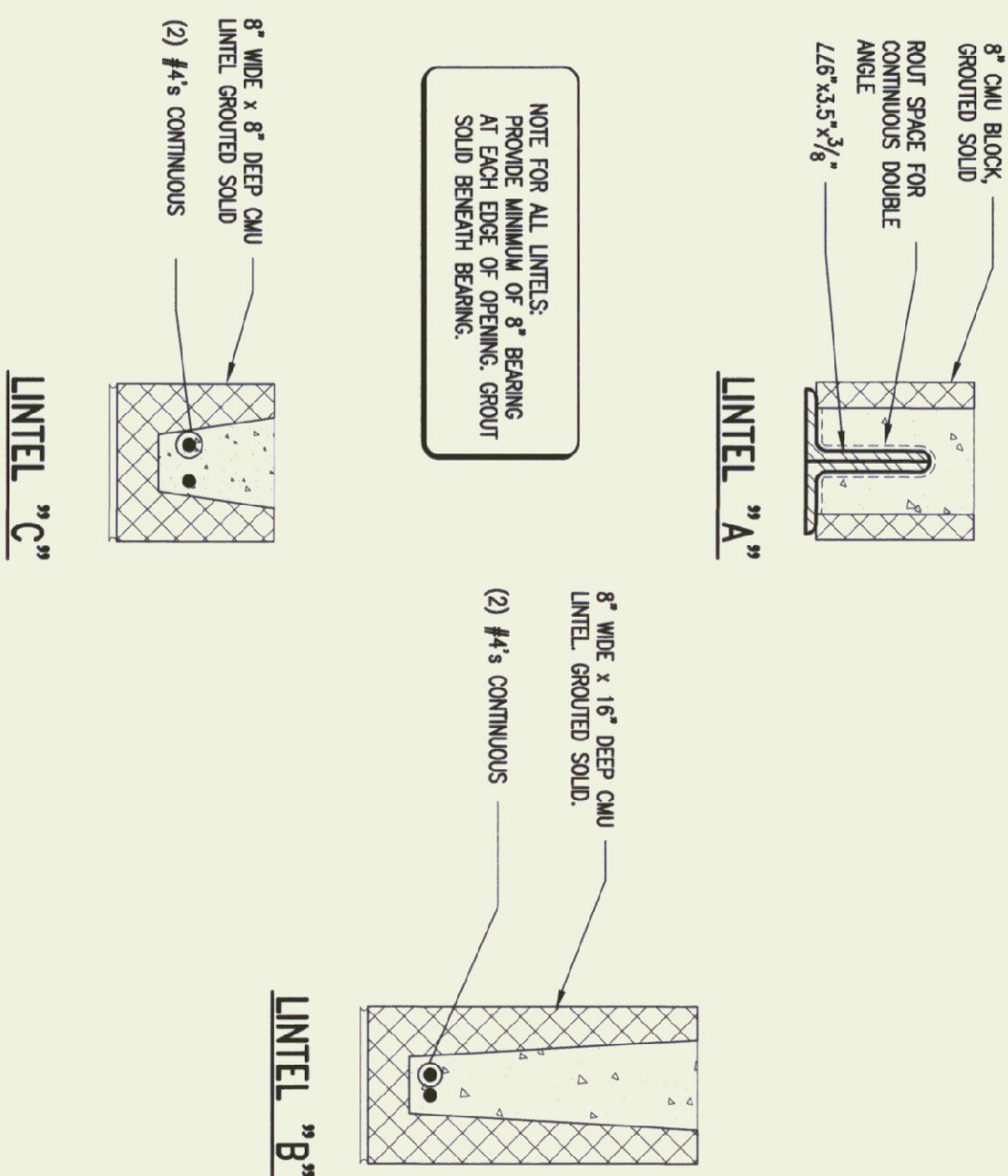
FOUNDATION WALL AND SLAB DETAIL
AT OVERHEAD DOORS



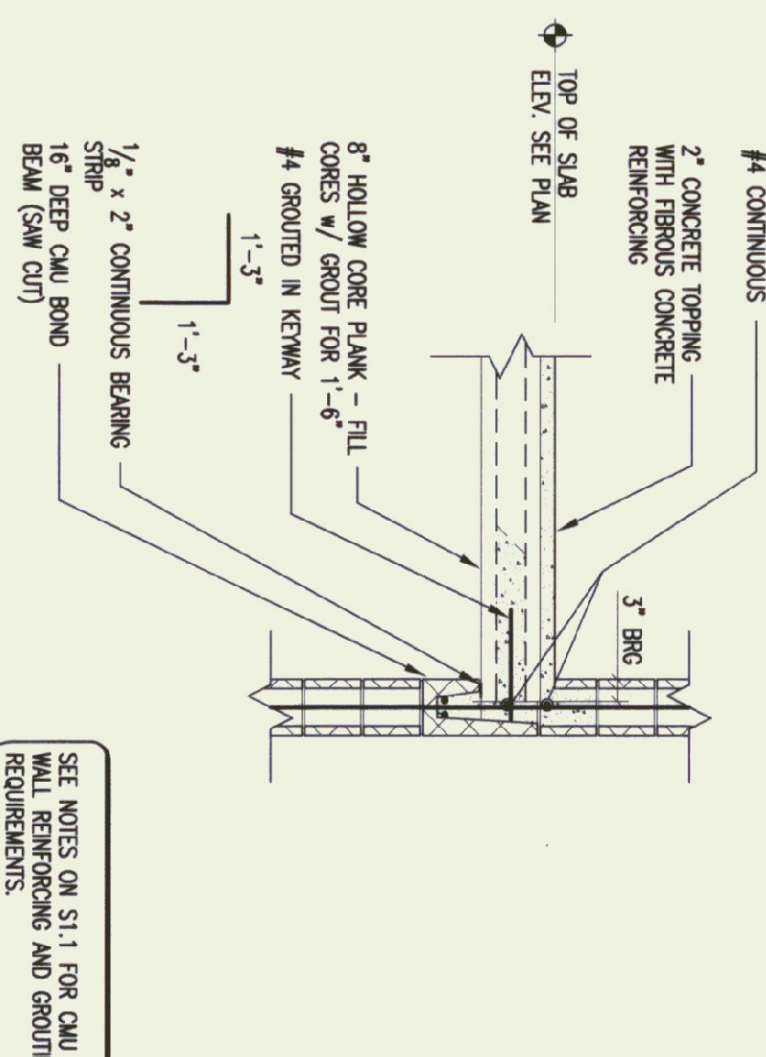
GARAGE DOOR LINTEL AND JAMB SECTION



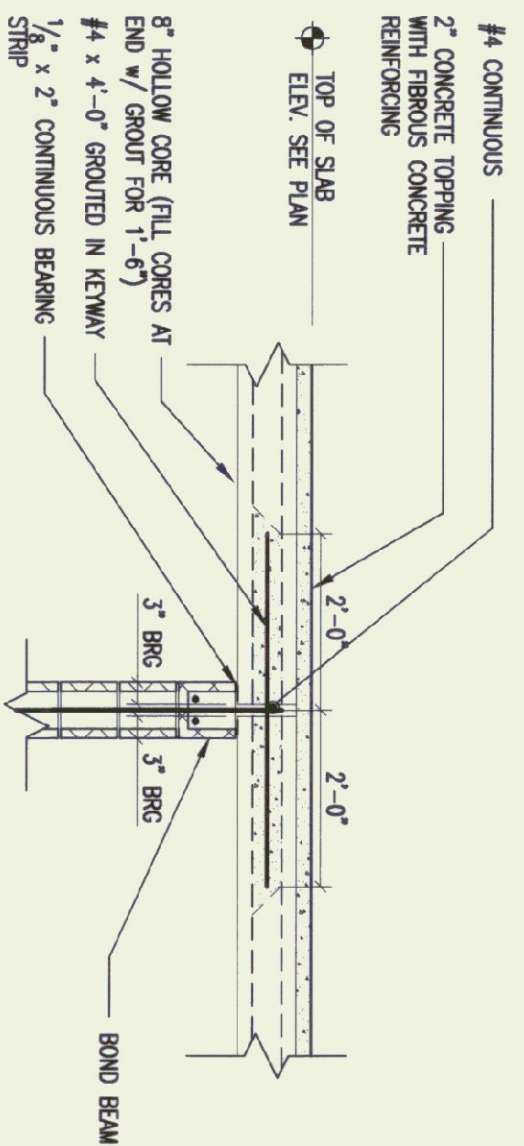
GARAGE DOOR LINTEL AND JAMB DETAIL



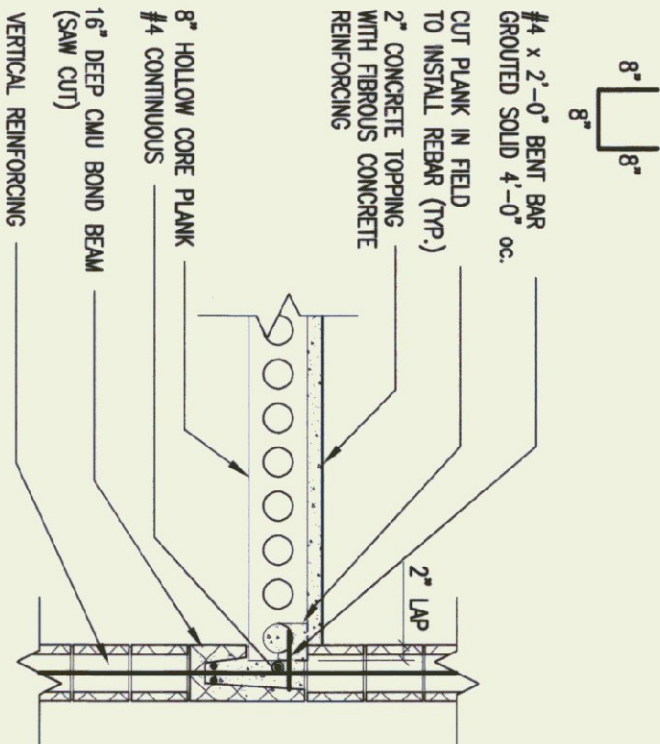
TYPICAL LINTELS



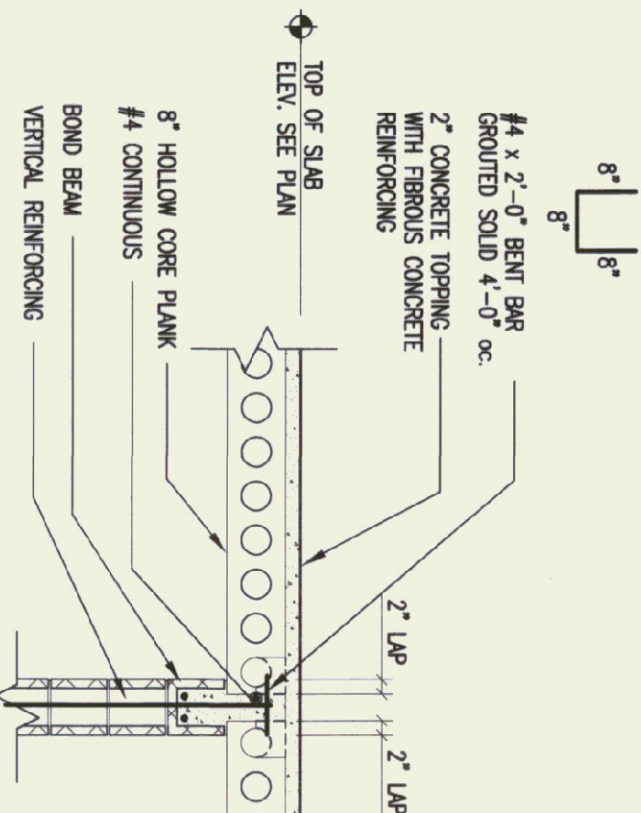
EXTERIOR WALL BEARING SECTION



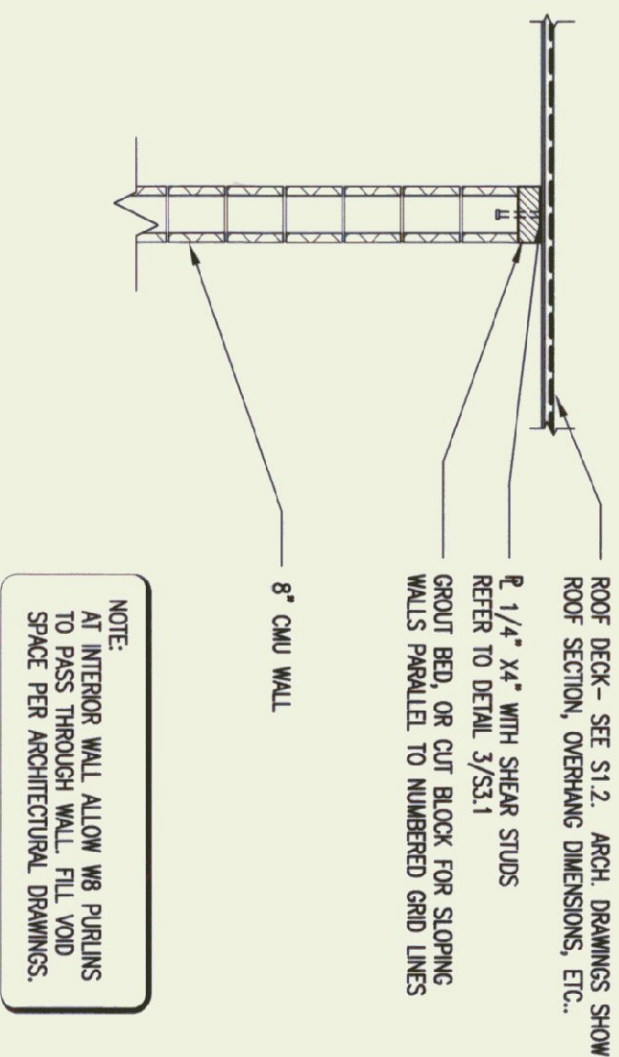
INTERMEDIATE WALL BEARING SECTION



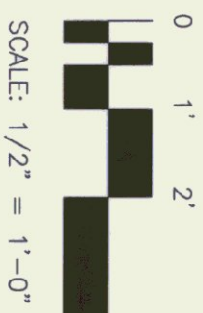
SIDE WALL - LAP SECTION



INTERMEDIATE WALL - LAP SECTION



ROOF DECK AT TOP OF CMU WALL



SCALE: 1/2" = 1'-0"



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1400 HANCOCK STREET
QUINCY, MA 02169
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Fax: (617) 471-2516



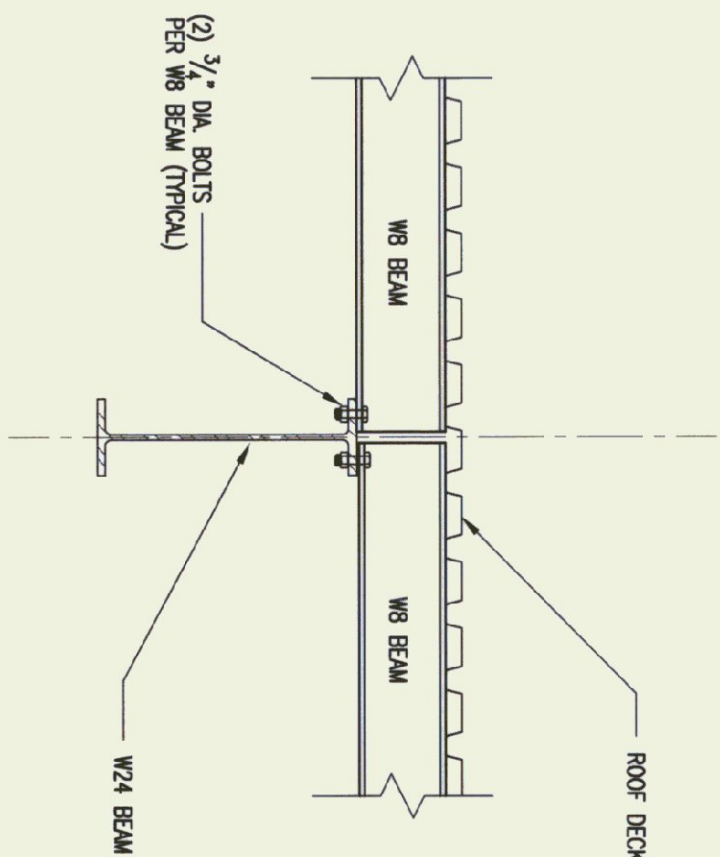
STATE OF VERMONT
DEPARTMENT OF BUILDINGS
AND GENERAL SERVICES
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT



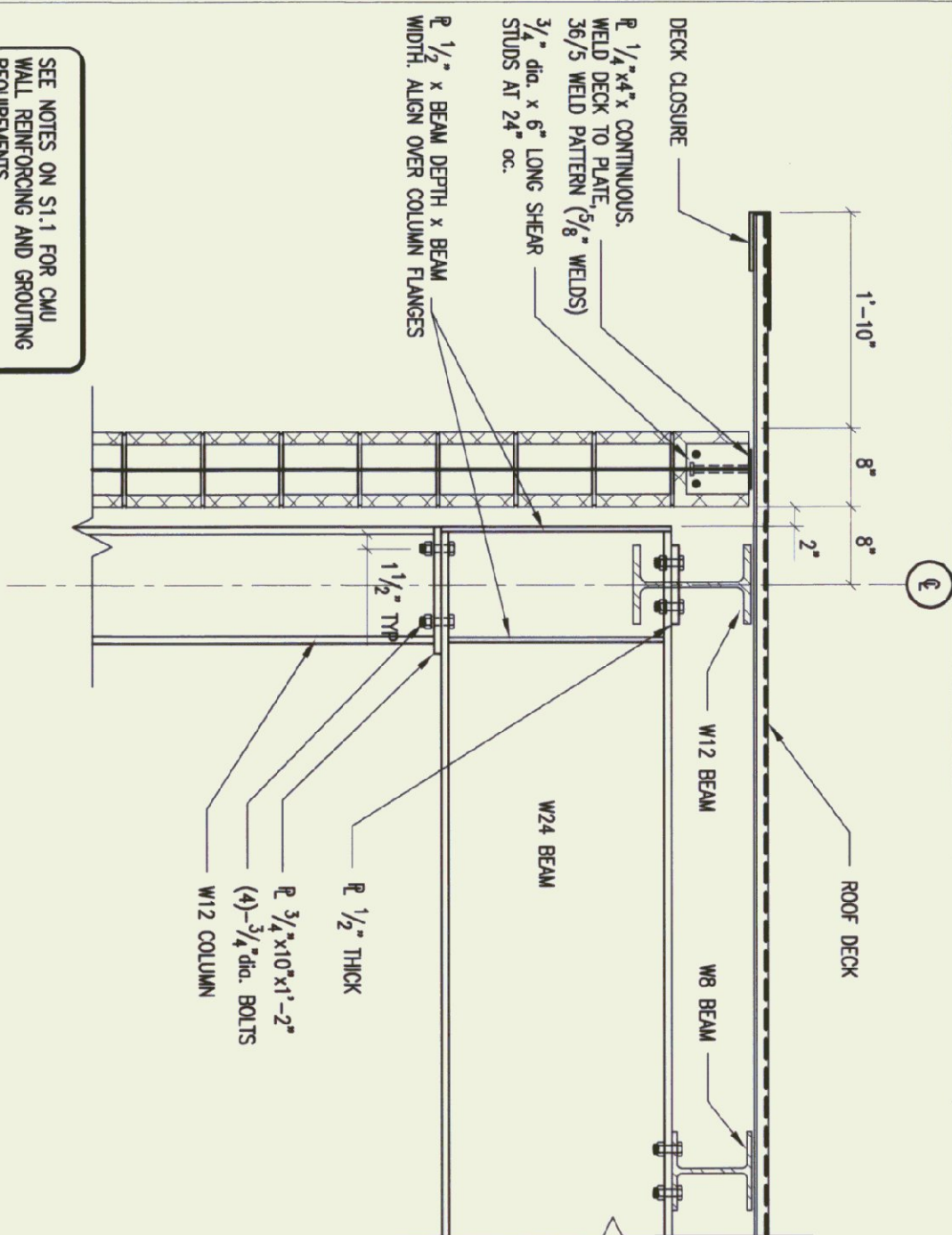
AGENCY OF TRANSPORTATION
HIGHGATE MAINTENANCE FACILITY
HIGHGATE VERMONT

SCALE: AS NOTED
DATE: 9/24/01
DRAWN BY: WP/MJ
APPR. BY: WP/KW

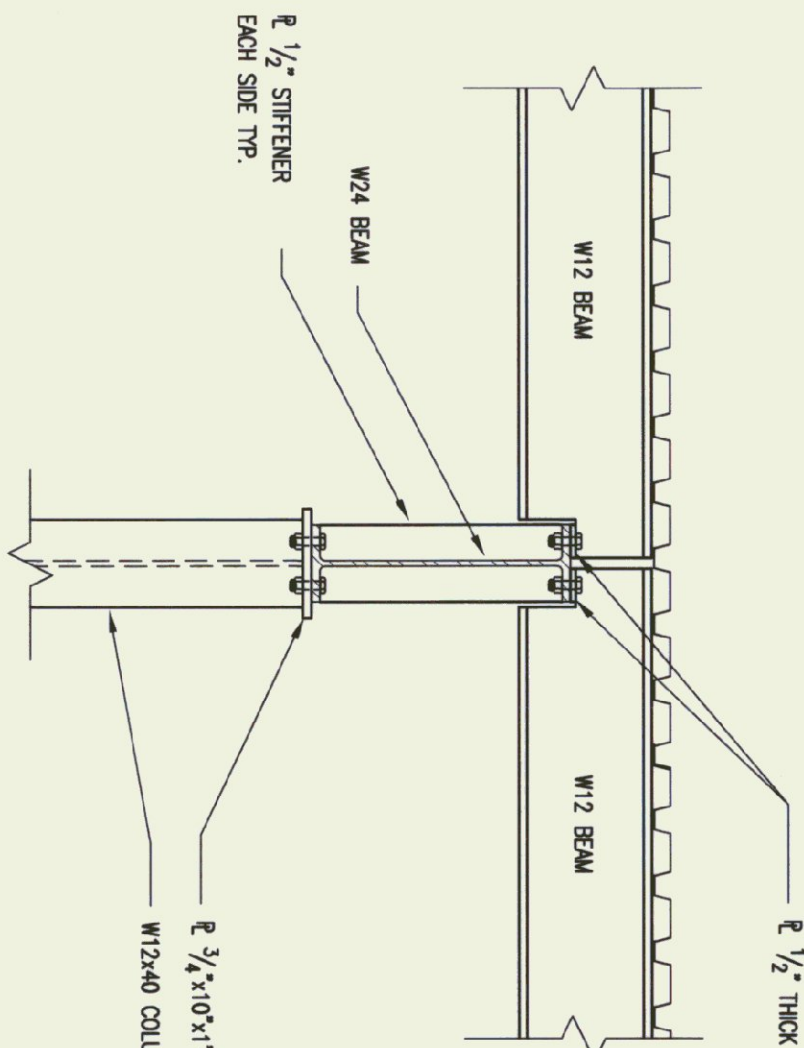
HIGHGATE
MAINTENANCE
GARAGE
STRUCTURAL
DETAILS



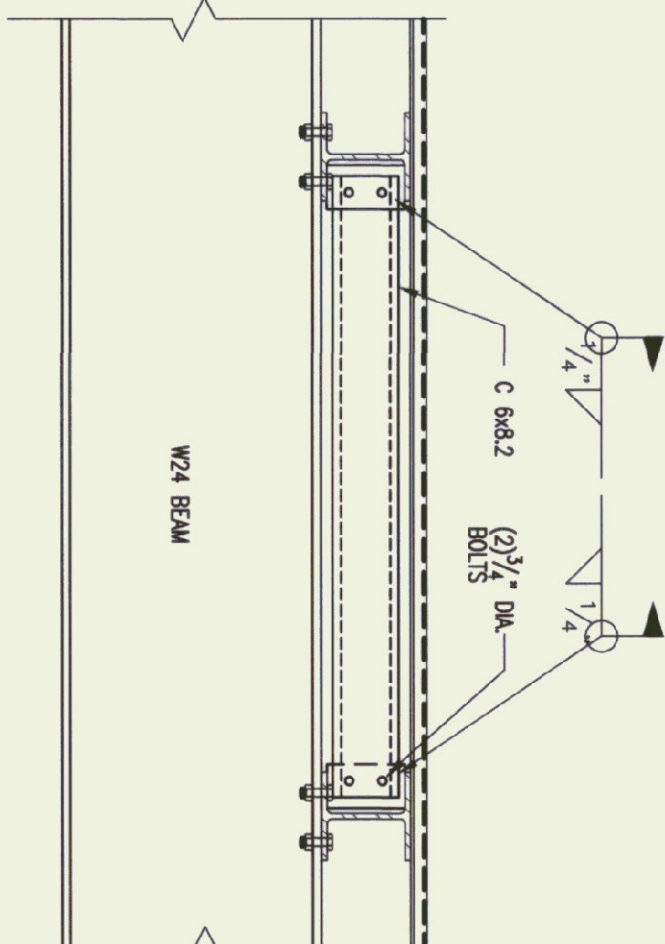
FRAMING DETAIL

$$3/4'' = 1'-0''$$


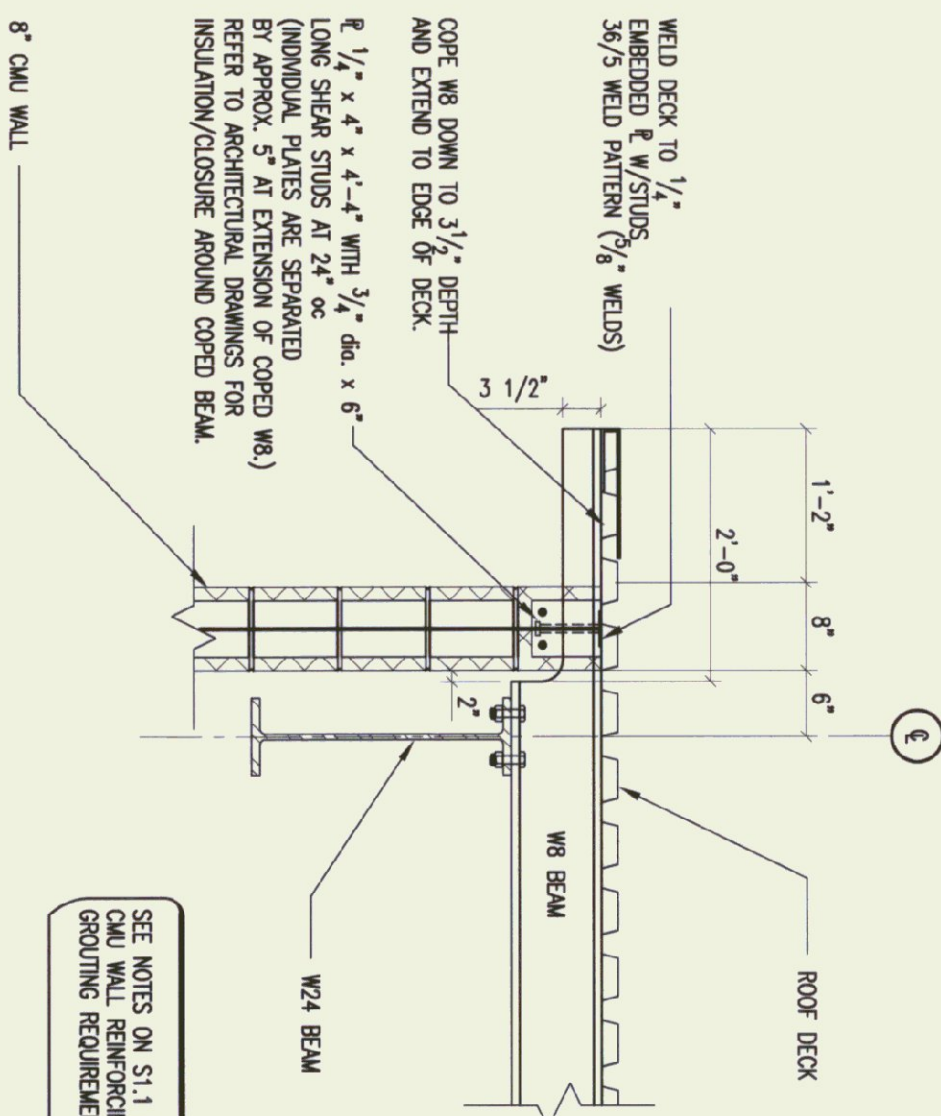
EAVE FRAMING DETAIL AT CMU WALL

$$3/4 = 1 - 0$$


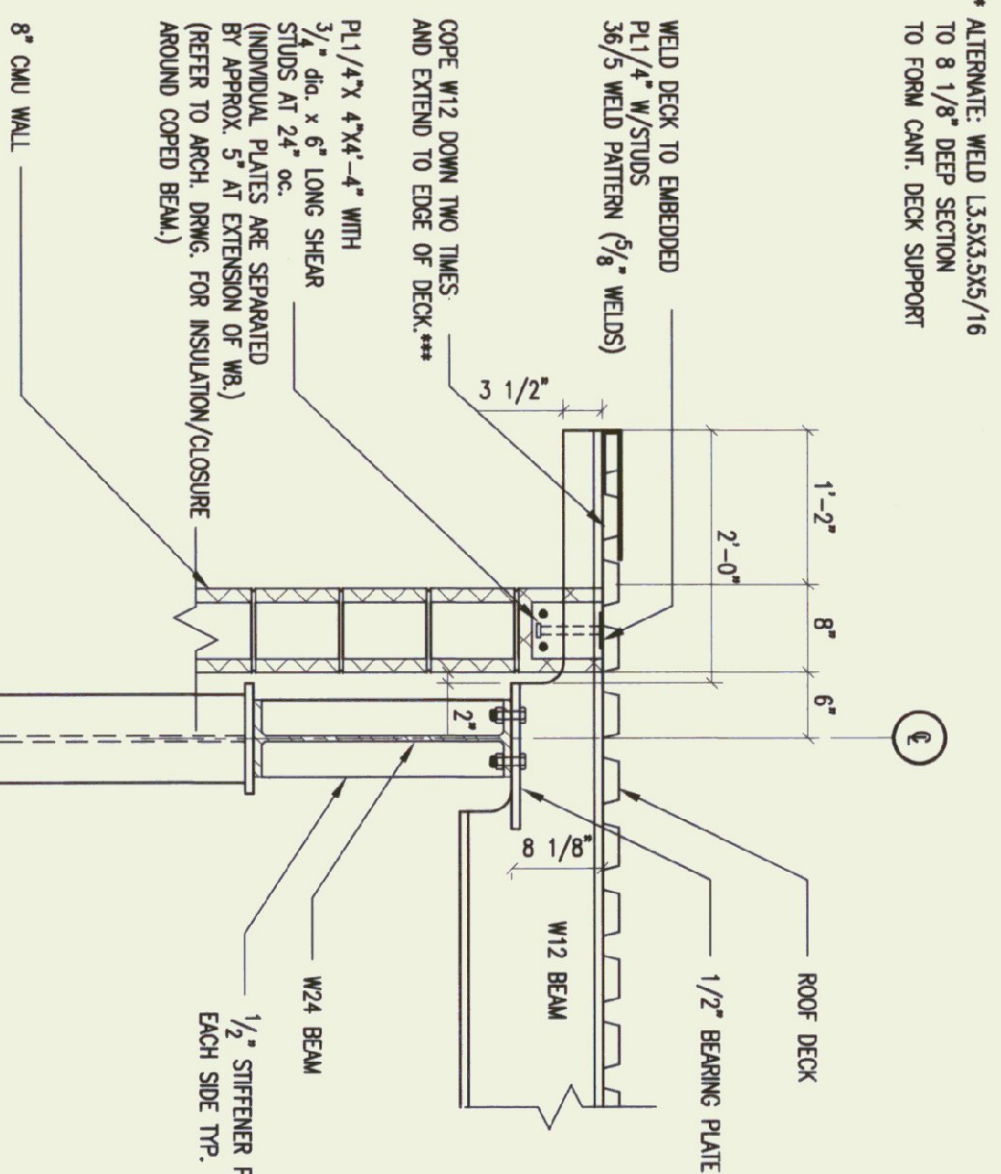
FRAMING DETAIL

$$3/4'' = 1'-0''$$


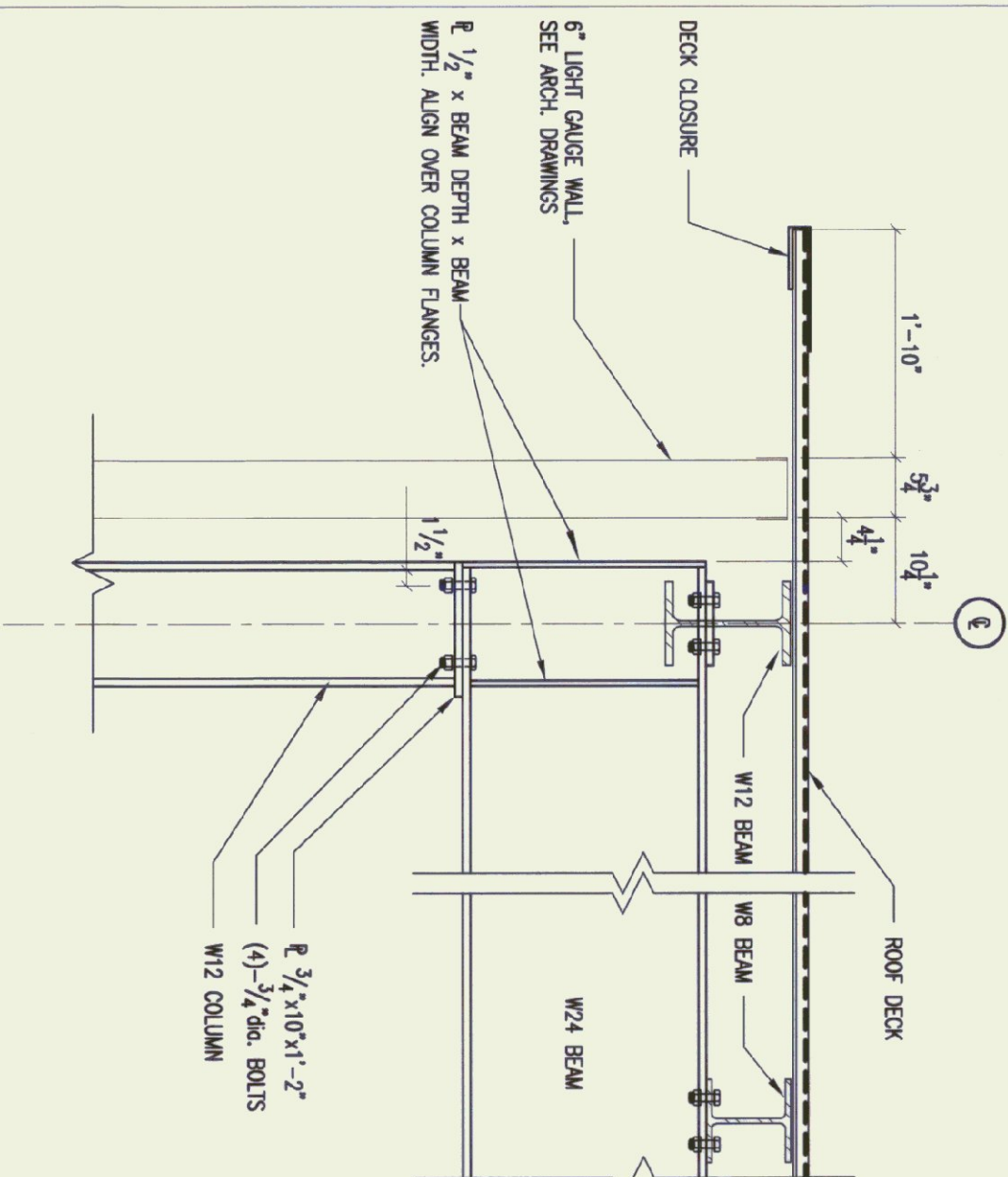
FRAMING DETAIL

$$3/4 = 1 - 0$$


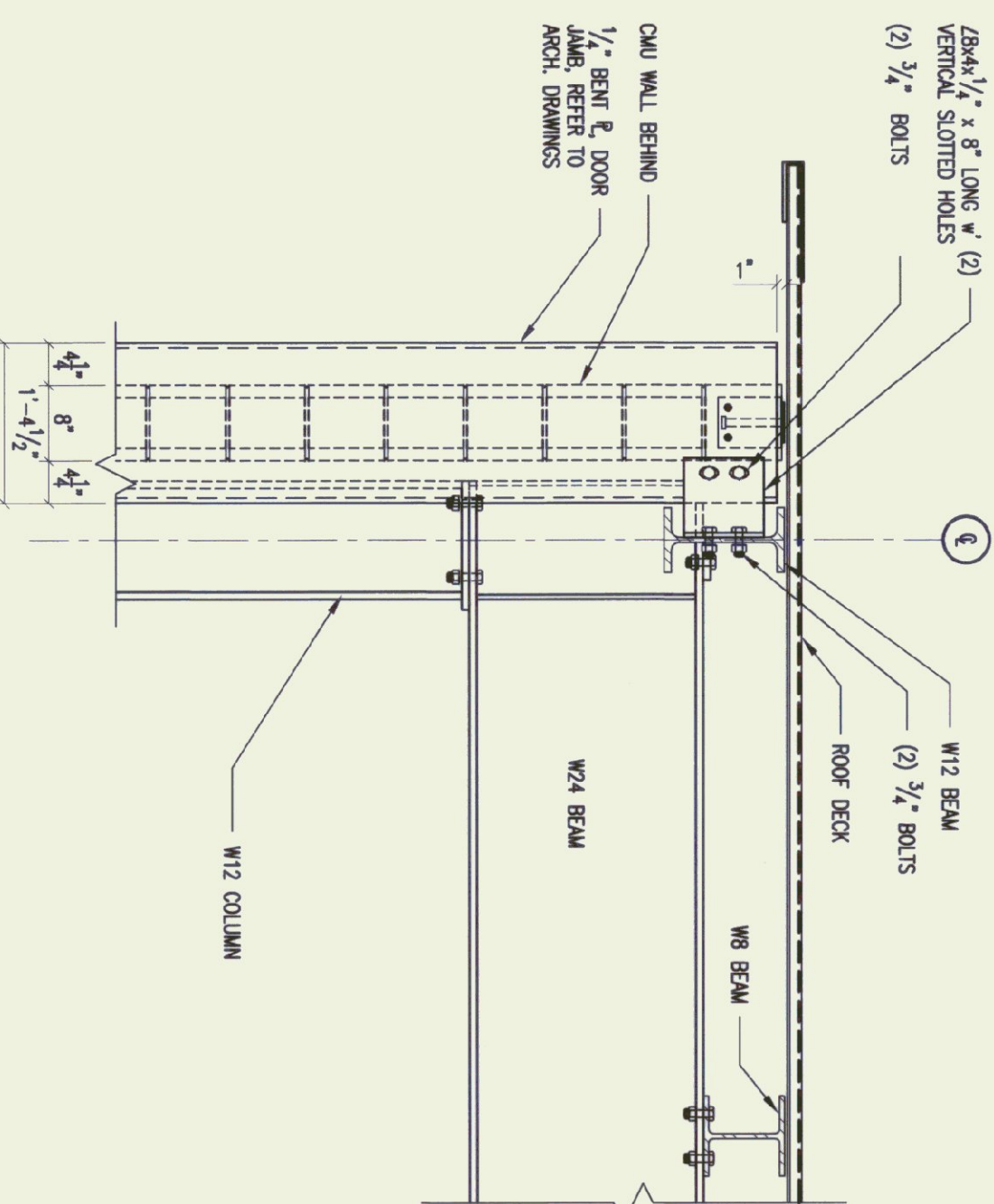
GABLE END FRAMING DETAIL

$$3/4 = 1 - 0$$


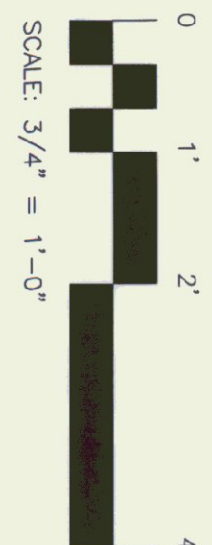
DECK SUPPORT-CORNER COLUMNS

$$3/4'' = 1'-0''$$


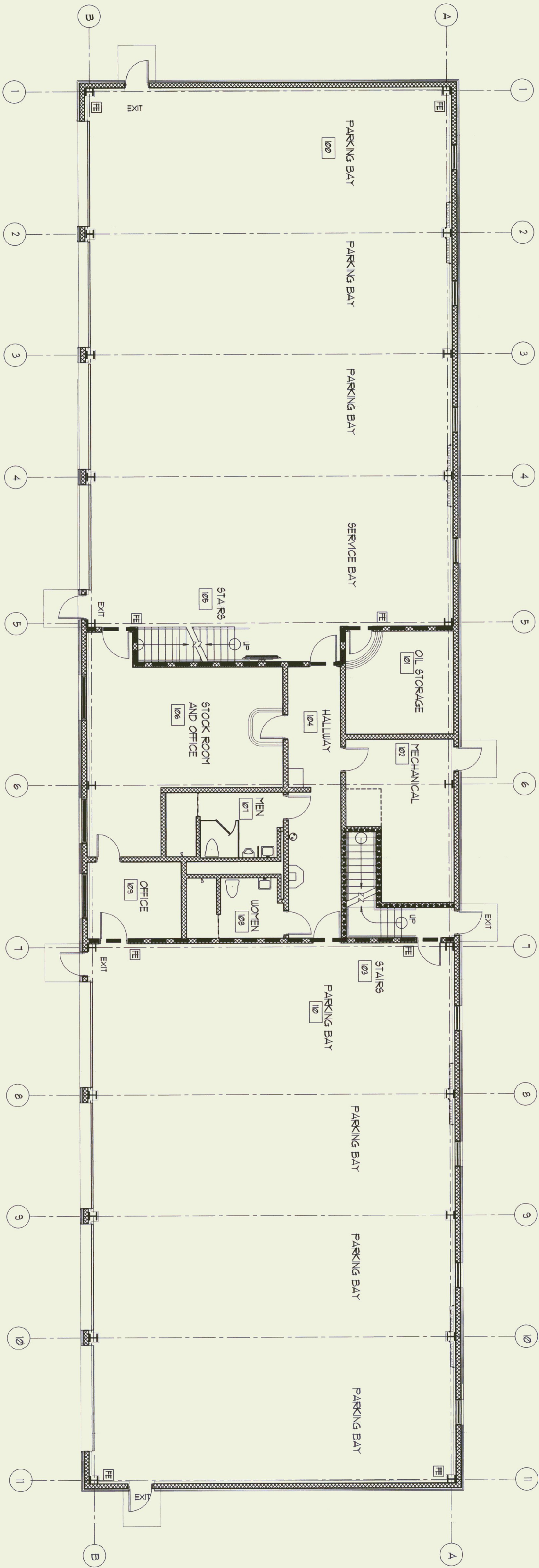
EAVE FRAMING DETAIL AT OVERHEAD DOORS

$$3/4'' = 1'-0''$$


OVERHEAD DOOR JAMB DETAIL

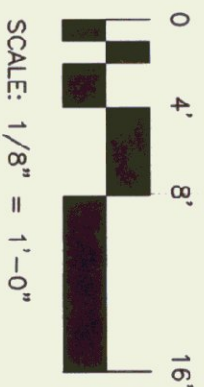
$$3/4 = 1 - 0$$


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



MAIN LEVEL PLAN

1/8" = 1'-0"



BOCA BUILDING REQUIREMENTS - 1996 EDITION

OCCUPANT TYPE: B - STORAGE, ORDINARY HAZARD
CONSTRUCTION TYPE: 2C, UNPROTECTED
BASE HEIGHT AND AREA LIMITATIONS
2 STORES AT 30'
8400 SF
ALLOWED AREA INCREASE
DESIGNED AREA
STREET FRONTAGE INCREASE
33% ACCESSIBLE PERIMETER
28X 8400 SF = 2352 SF
TOTAL ALLOWED AREA
8400SF + 2352 SF = 10752 SF

CONSTRUCTION REQUIREMENTS
FIRE SEPARATION WALLS: 2 HOUR (PER NFPA 88B)
FIRE ENCLOSURES, EXITS AND STAIRWAYS: 1 HOUR
EXIT ACCESS CORRIDORS: 0 HOURS (OCCUPANT LOAD LESS THAN 50)
INTERIOR BEARING WALLS, COLUMNS, FLOOR TRUSSES: 0 HOURS
STRUCTURAL MEMBERS SUPPORTING WALL: 0 HOURS
FLOOR CONSTRUCTION: 0 HOURS
ROOF CONSTRUCTION: 1 HOUR
INTERIOR DOORS TO BE 1 1/2 HOUR FIRE RATING
ROOF DECK: 0 HOURS
NFPA 101 BUILDING REQUIREMENTS - 1997 EDITION

CLASSIFICATION - STORAGE, ORDINARY HAZARD
EXITS REQUIRED - MIN. 2 REQUIRED
MAX. TRAVEL DISTANCE TO EXITS: 200 FEET
DEAD END CORRIDORS NOT EXCEED 50 FEET
COMMON PATH FOR ORDINARY HAZARD: 50 FEET
CLASS 1/4" FINISH REQUIRED

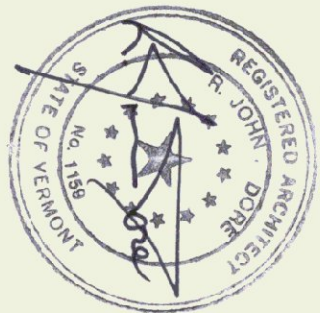
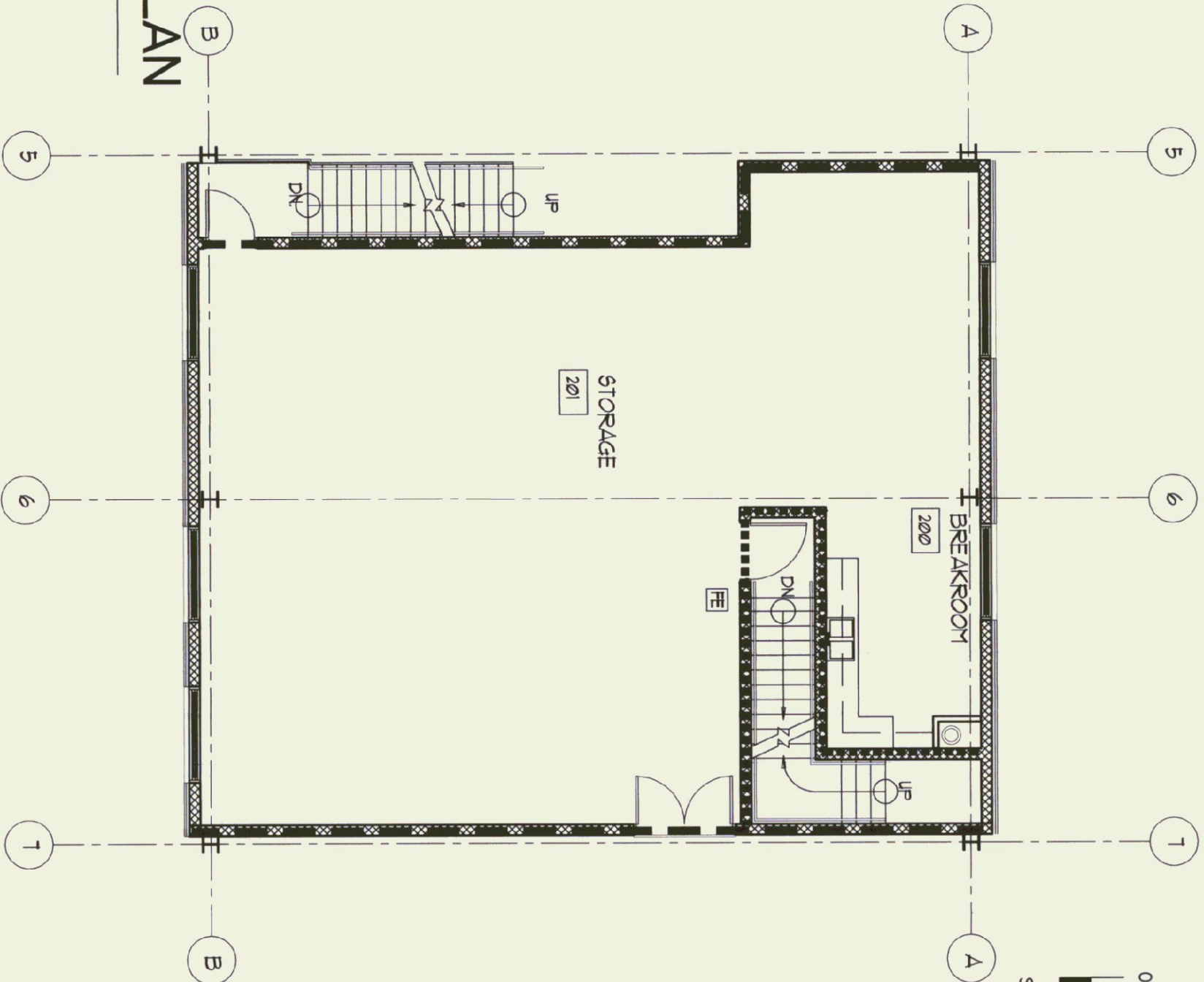
DESIGN FLOOR LOAD OF MEZZANINE = 75 PSF

LEGEND

- TWO HOUR FIRE SEPARATION WALL
- ONE HOUR FIRE SEPARATION WALL
- AOT SUPPLIED FIRE EXTINGUISHERS

UPPER LEVEL PLAN

1/8" = 1'-0"



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HIGHGATE MAINTENANCE FACILITY
HIGHGATE VERMONT

REVISIONS	

SCALE: 1/8" = 1'-0"	DATE: 9/24/01
DRAWN BY: <i>AMD</i>	APPR. BY: <i>AMD</i>

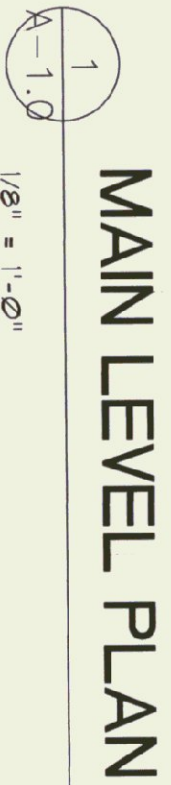
HIGHGATE

MAINTENANCE
GARAGE

CODE PLANS

A-0.1

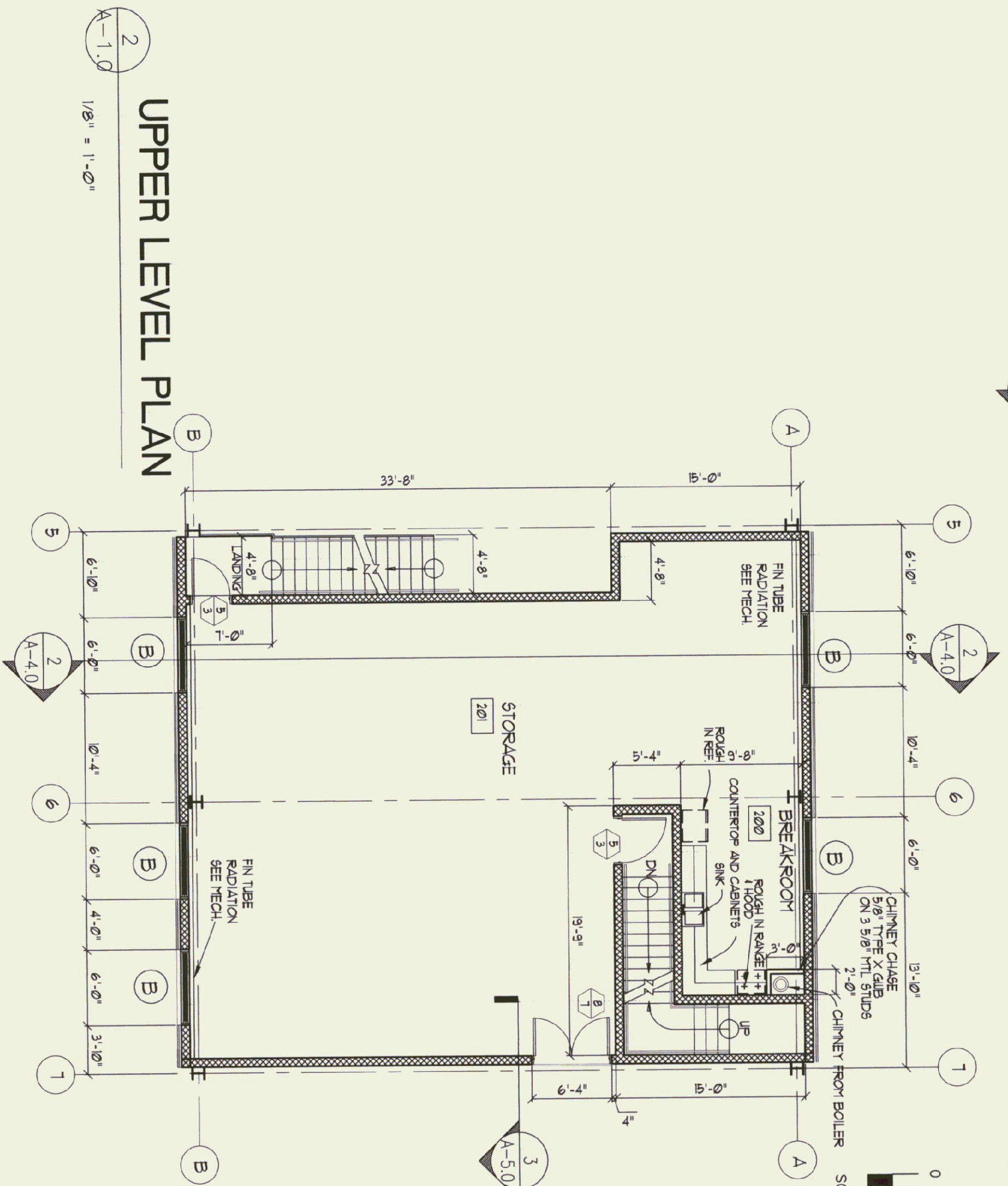
16 OF 37

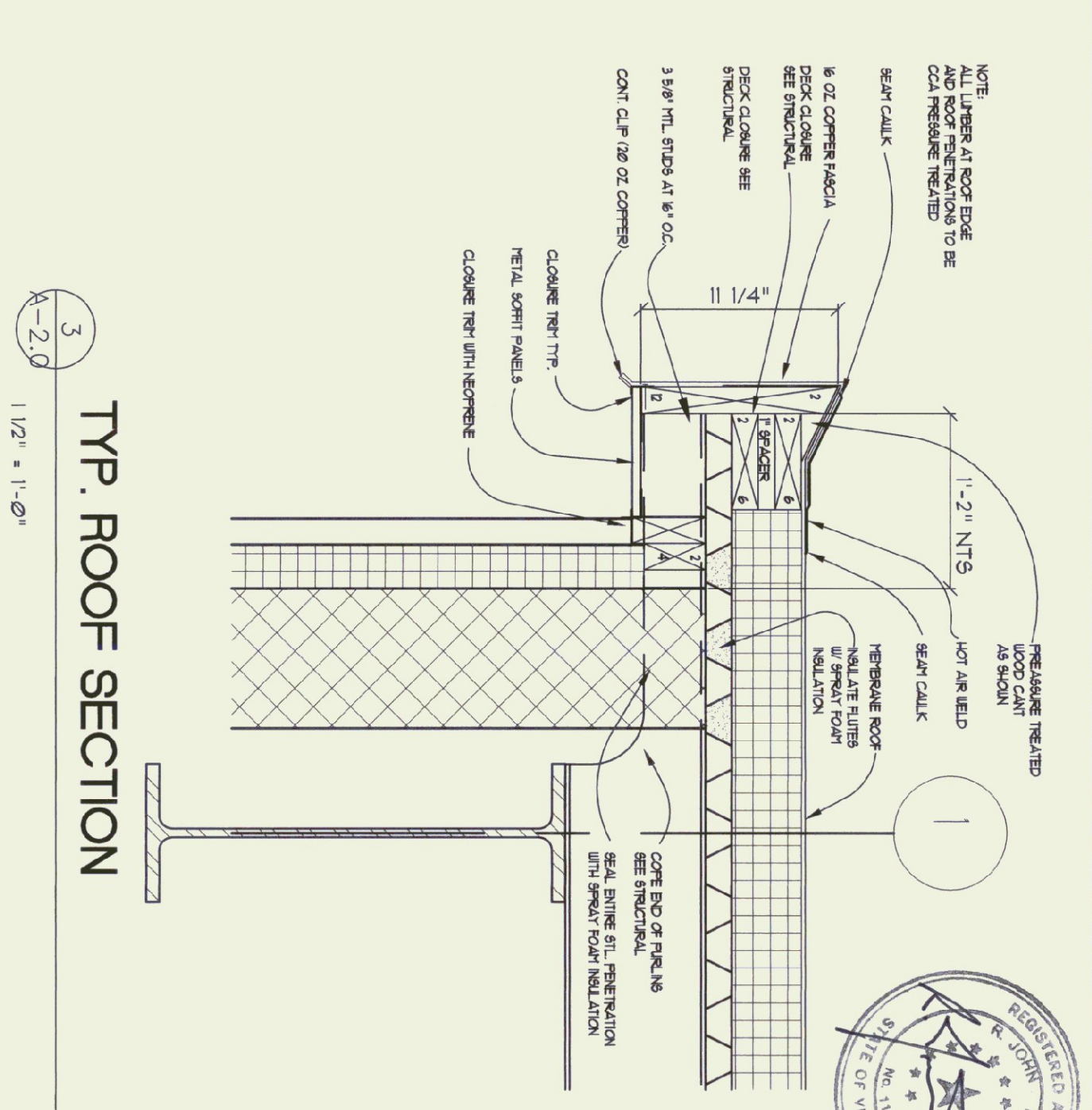


Room Finish Schedule										REMARKS
No.	ROOM TYPE	FLOOR	MATERIAL	FINISH	BASE	WALL	FINISH	CEILING	MATERIAL	
01	PARKING & SERVICE BAYS	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
02	OIL STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	FRAC/ASI CONC PLANK	PT	PT
03	MECHANICAL	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	FRAC/ASI CONC PLANK	PT	PT
04	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
05	HALLWAY	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	FRAC/ASI CONC PLANK	PT	PT
06	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
07	STOCK RM/ OFFICE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	FRAC/ASI CONC PLANK	PT	PT
08	OPEN	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	FRAC/ASI CONC PLANK	PT	PT
09	LOBBY	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	FRAC/ASI CONC PLANK	PT	PT
10	OFFICE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	FRAC/ASI CONC PLANK	PT	PT
11	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
12	PARKING BAYS	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
13	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
14	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
15	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
16	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
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119	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
120	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
121	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
122	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
123	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
124	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
125	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
126	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
127	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
128	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
129	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
130	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
131	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
132	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
133	STORAGE	CONC	SEAL & LINIC	CONC	CONC	CRU	PT	SILL, DWS & ROOF DECK	PT	PT
134	STORAGE	CONC								

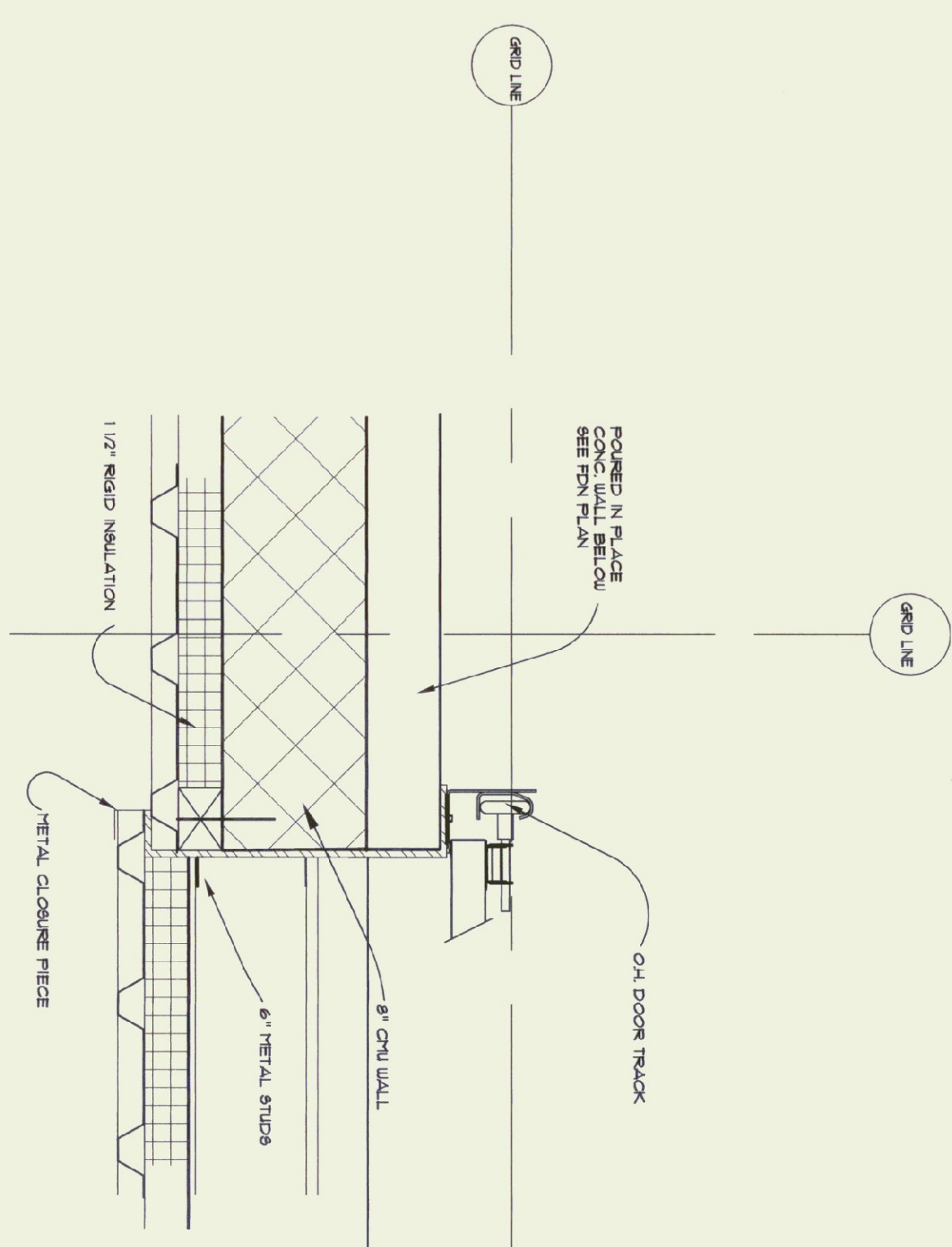
1. PAINT ALL HOLLOW METAL FRAMES AND TRIM.
2. PAINT ALL EXPOSED STRUCTURE AND MISCELLANEOUS METAL STRIPS AND RAIL NGS.
3. REFER TO FLOOR PLANS FOR LOCATIONS OF WALL TYPES AND WALL MATERIAL.
4. DO NOT PAINT ELEC. CONDUIT, PIPES, OTHER MECH. EQUIP. PAINT WALL PRIOR TO INSTALLATION OF CONDUIT AND PIPES.
5. DO NOT PAINT UNDERSIDE OF GALVANIZED ROOF DECK.

UPPER LEVEL PLAN

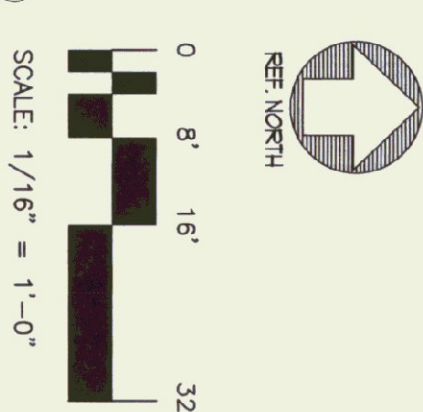




TYP. ROOF SECTION



O.H. DOOR JAMB DETAIL



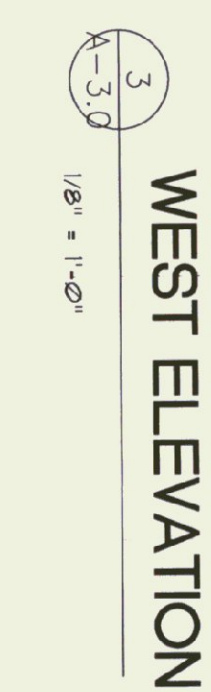
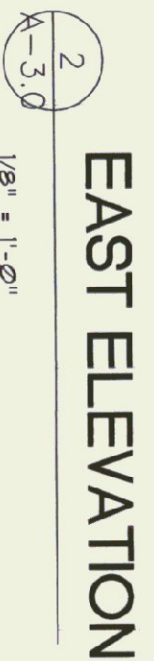
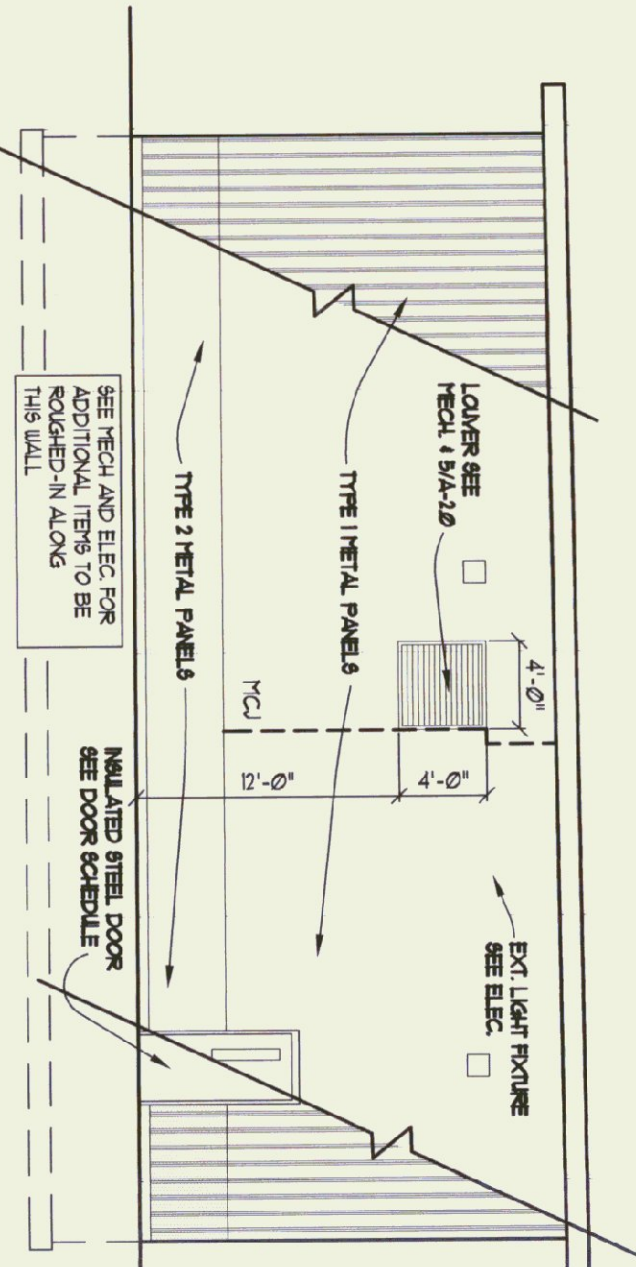
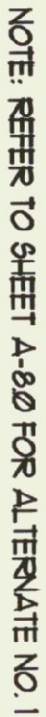
TYP. MANIFOLD ENCLOSURE



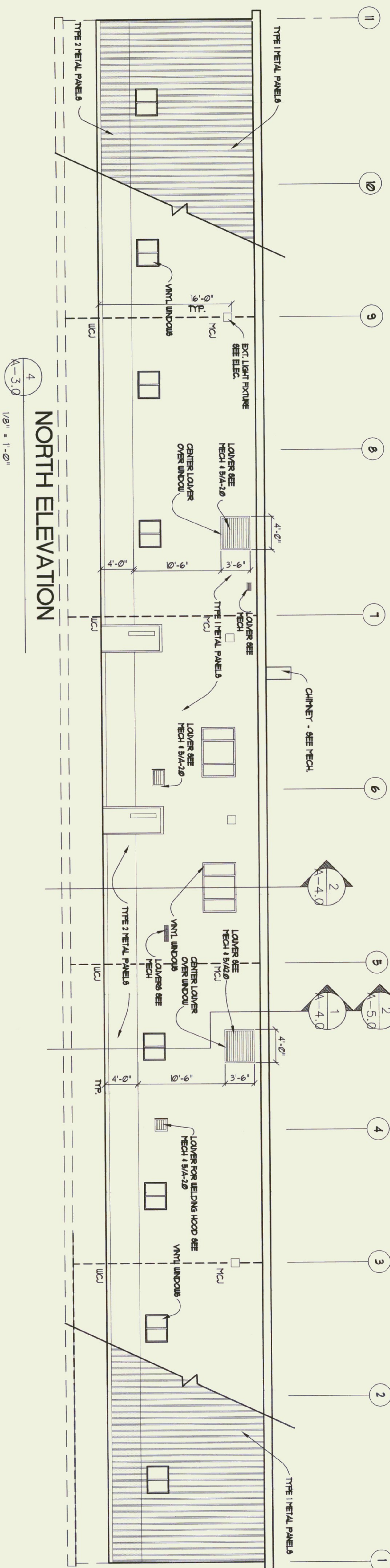
REVISIONS

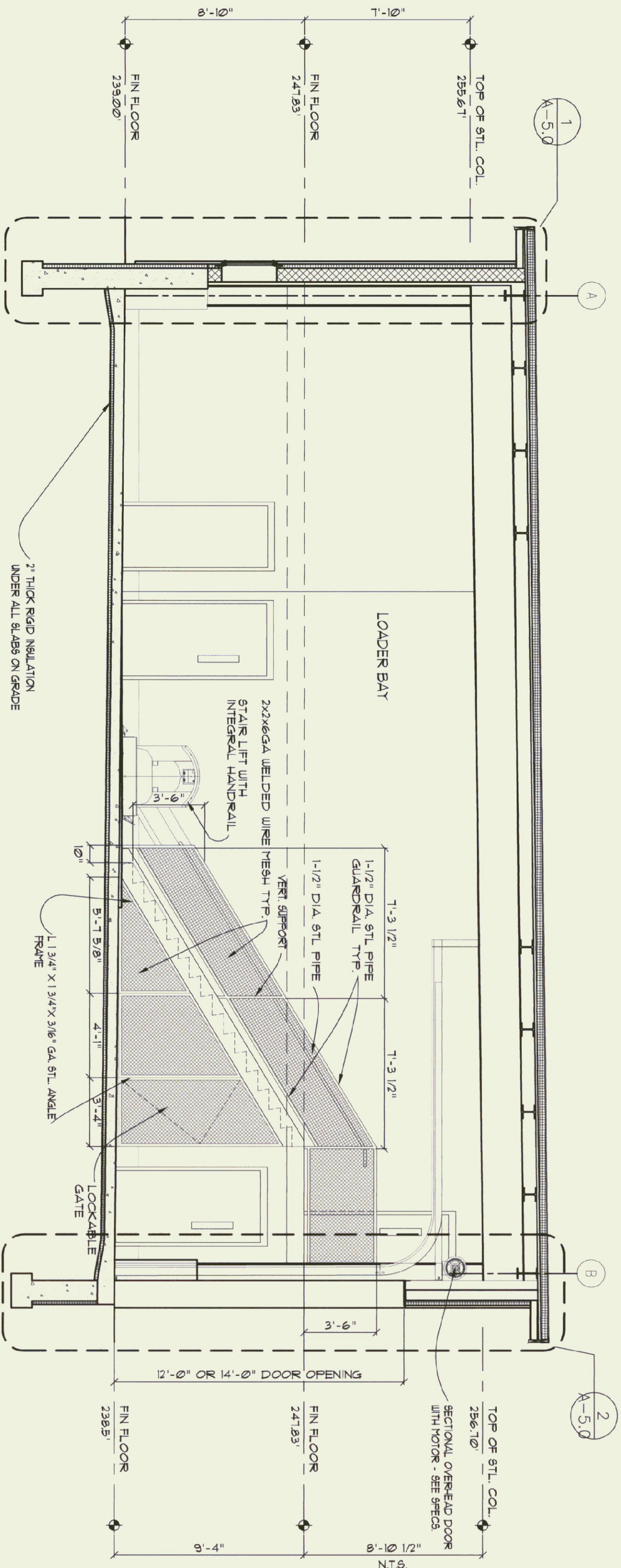
MAINTENANCE
GARAGE

A-3.0



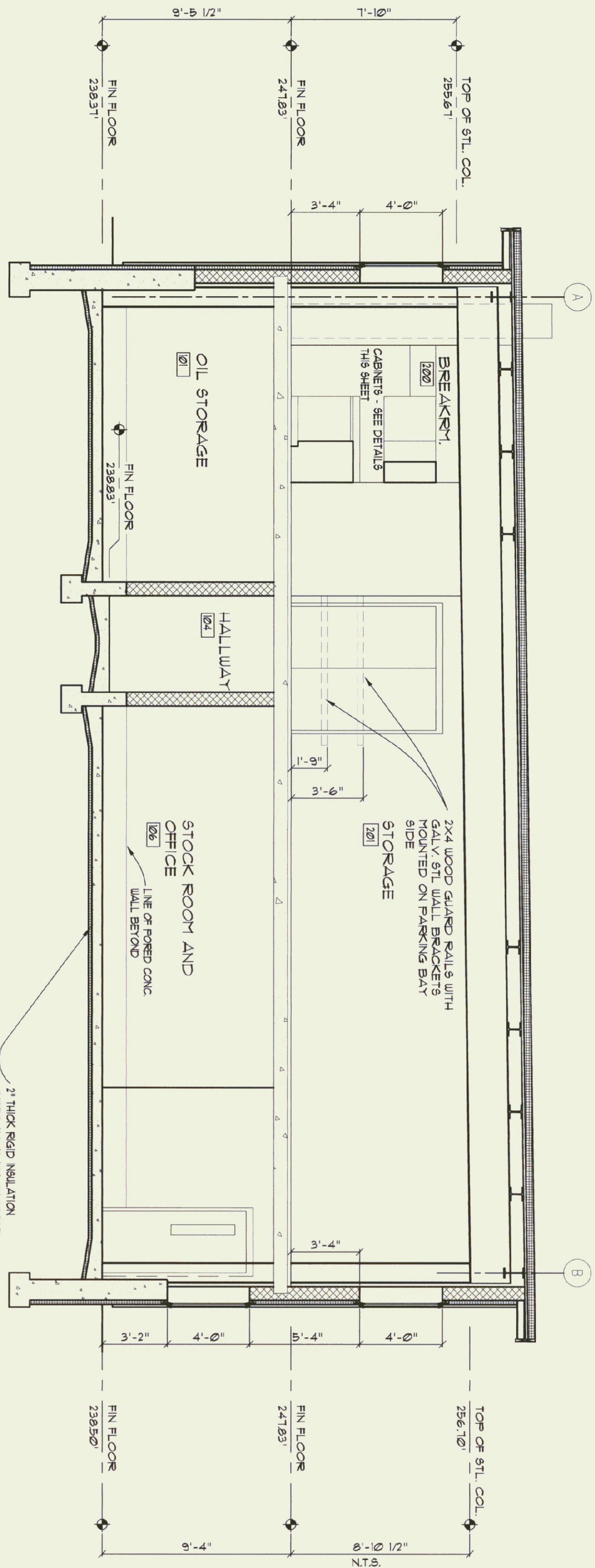
NOTE5:
TYPE 1 METAL PANELS ARE APPROX. 16'-0" HIGH
TYPE 2 METAL PANELS ARE APPROX. 4'-6" HIGH
VERTICAL METAL PANELS 1 OVER LAP MIN. 6" OVER VERTICAL PANELS 2
LOWERS AND VENTS BY HV CONTRACTOR INSTALLATION AND
FLASHING BY GC.
SEE SHEET A-80 FOR ALTERNATE NO. 1
MCJ = MASONRY CONTROL JOINT
MCJ = WALL CONSTRUCTION JOINT - SEE DETAIL 4/9-2)





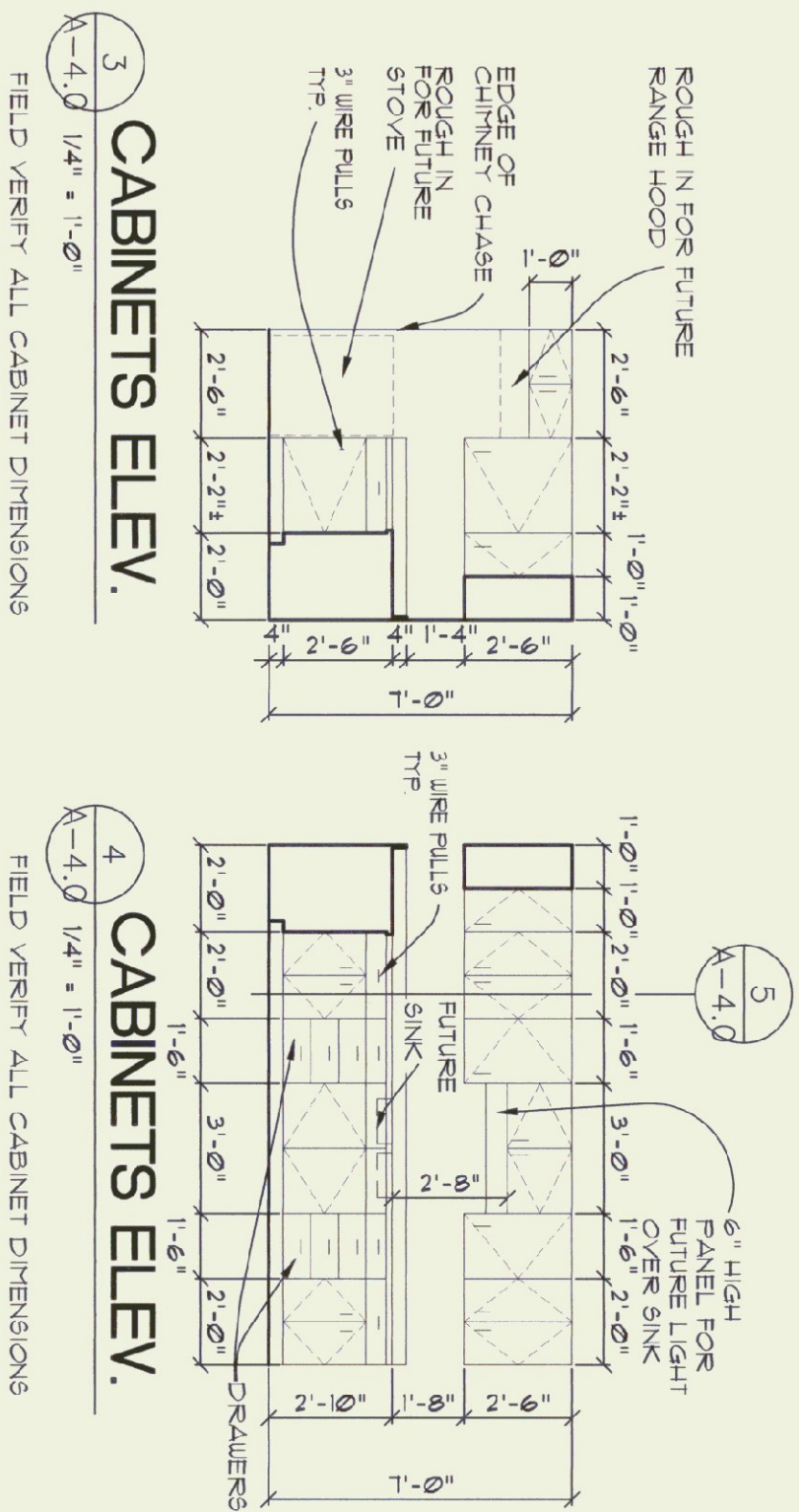
1
A-4.0
1/4" = 1'-0"

BUILDING SECTION



2
A-4.0
1/4" = 1'-0"

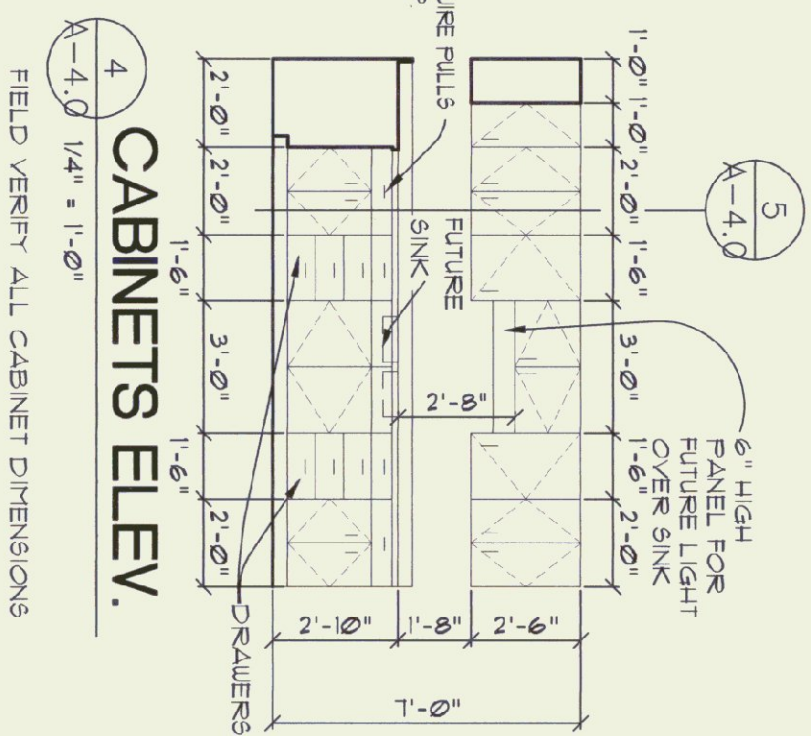
BUILDING SECTION



3
A-4.0
1/4" = 1'-0"

CABINETS ELEV.

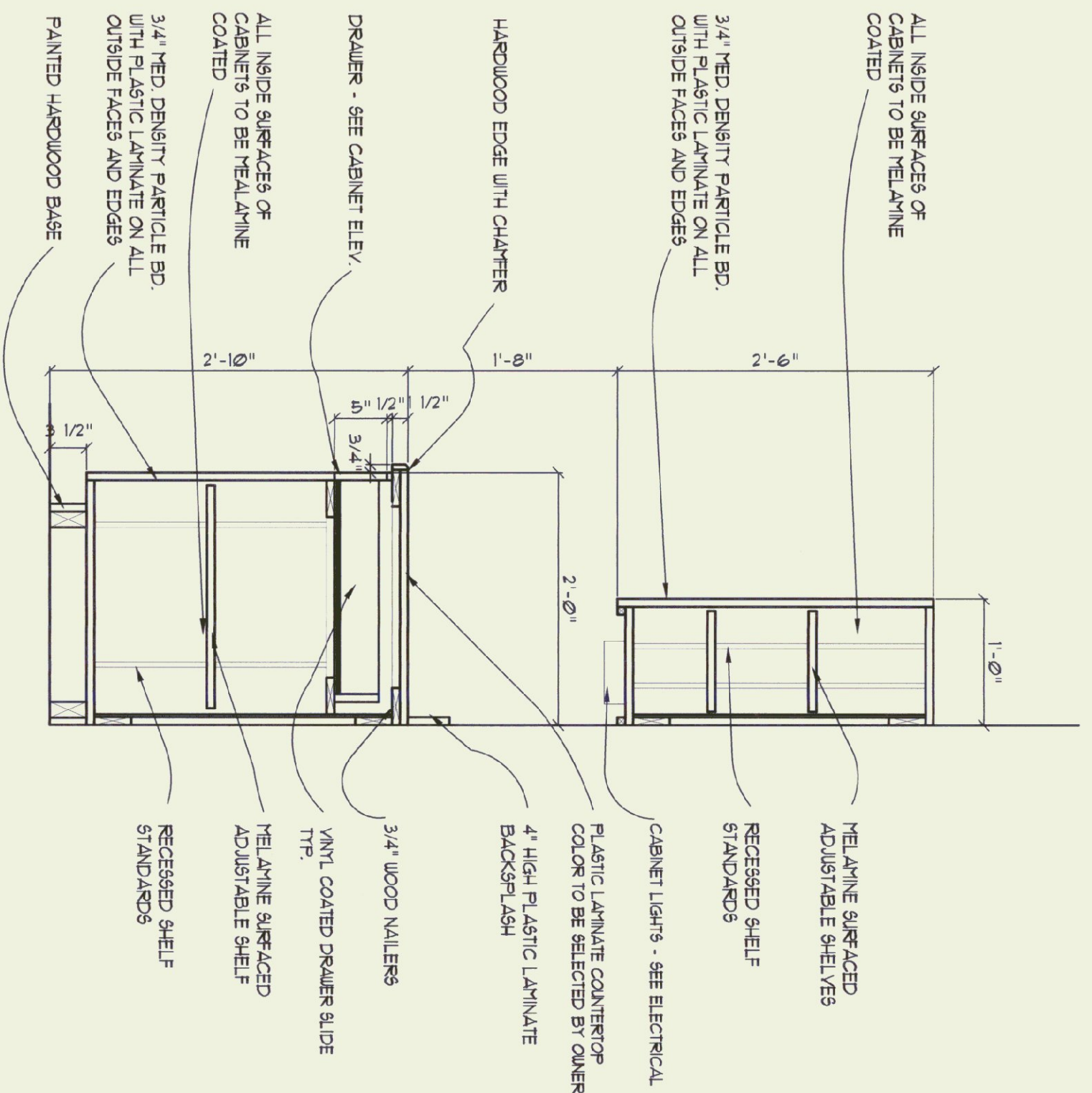
FIELD VERIFY ALL CABINET DIMENSIONS



4
A-4.0
1/4" = 1'-0"

CABINETS ELEV.

FIELD VERIFY ALL CABINET DIMENSIONS



5
A-4.0
1/4" = 1'-0"

TYP. CABINET SECT.



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QUINCY, MA 02169
Phone: (617) 471-2897
Fax: (617) 471-2516

AGENCY OF TRANSPORTATION
HIGHGATE MAINTENANCE FACILITY
HIGHGATE VERMONT

REVISIONS	

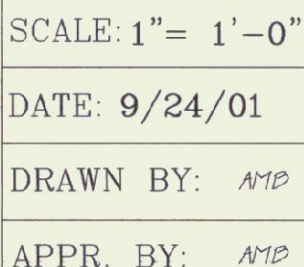
SCALE: AS NOTED
DATE: 9/24/01
DRAWN BY: <i>AMP</i>
APPR. BY: <i>AMP</i>

HIGHGATE
MAINTENANCE
GARAGE
BUILDING
SECTIONS AND
CABINET DTLS.

A-4.0



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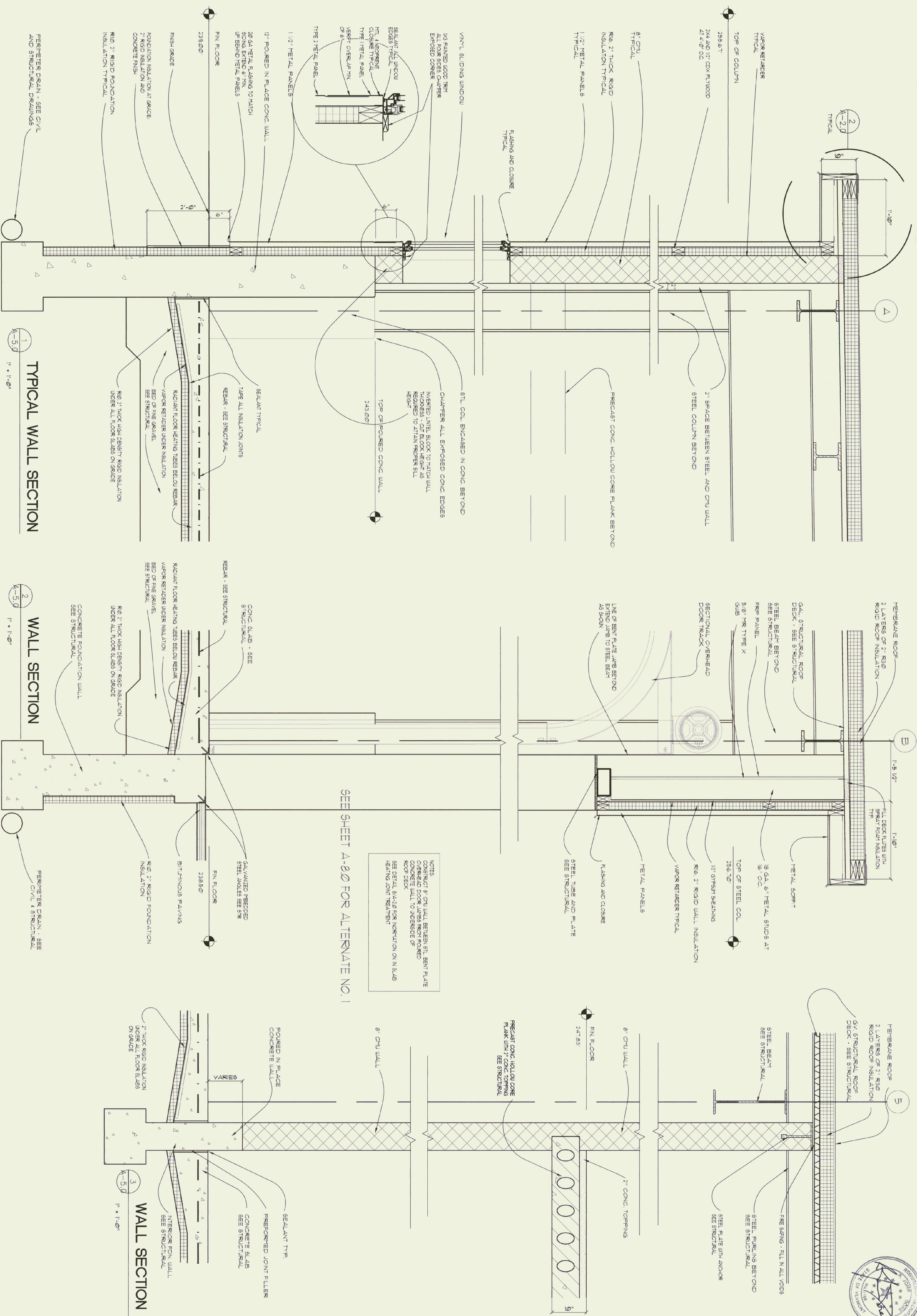


REVISIONS

WALL SECTIONS

A-5.0

21 OF 37





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AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT



AGENCY OF TRANSPORTATION
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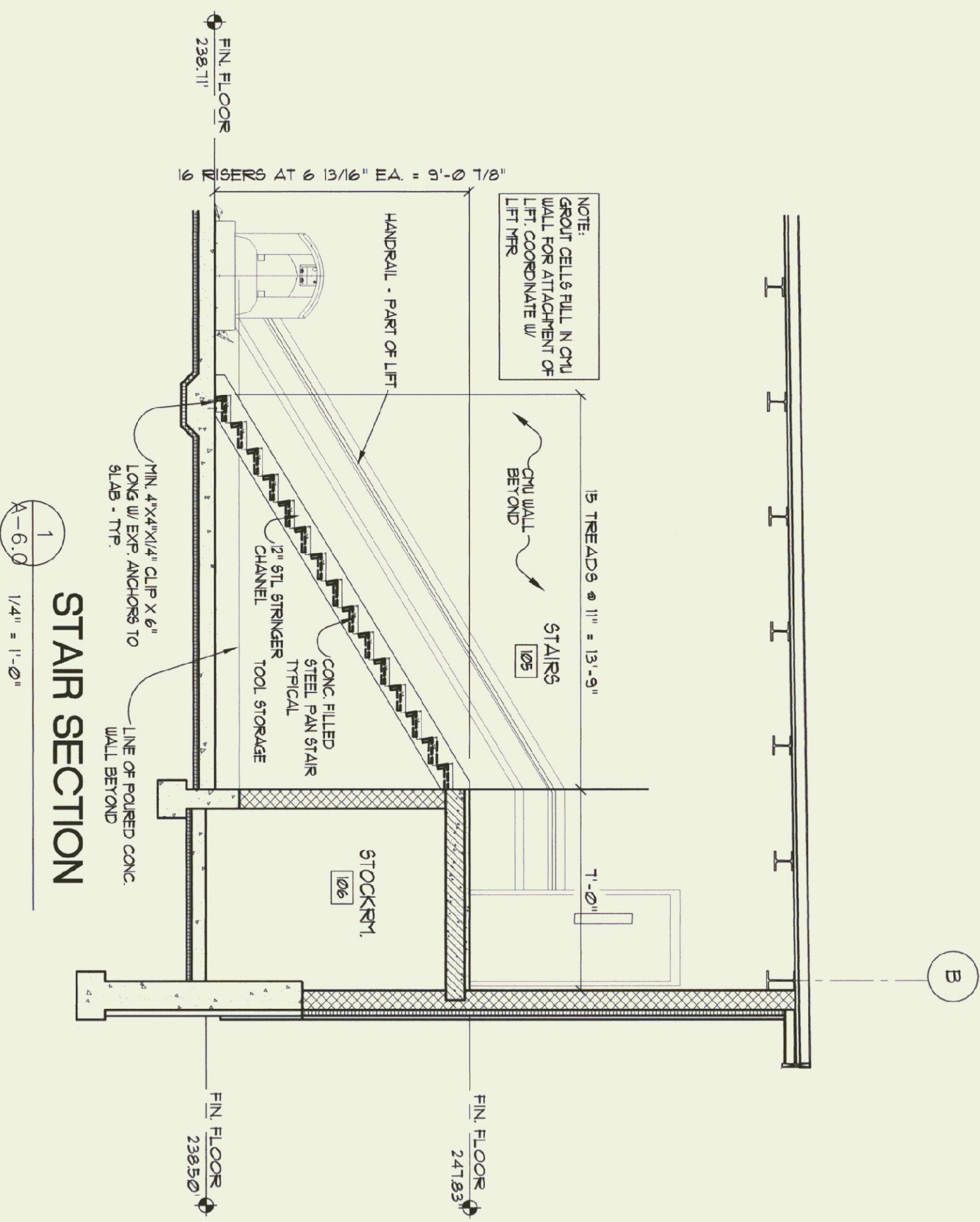
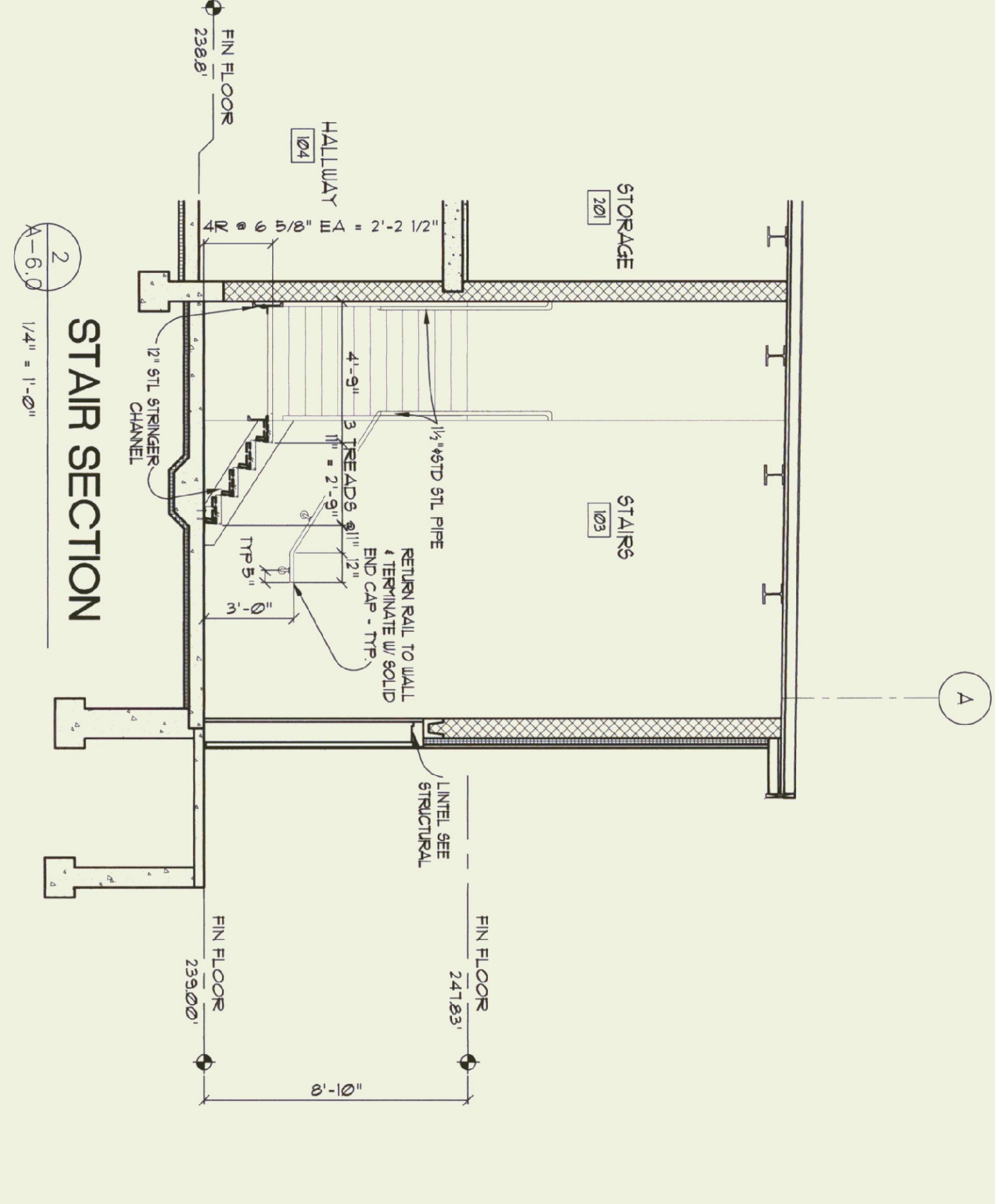
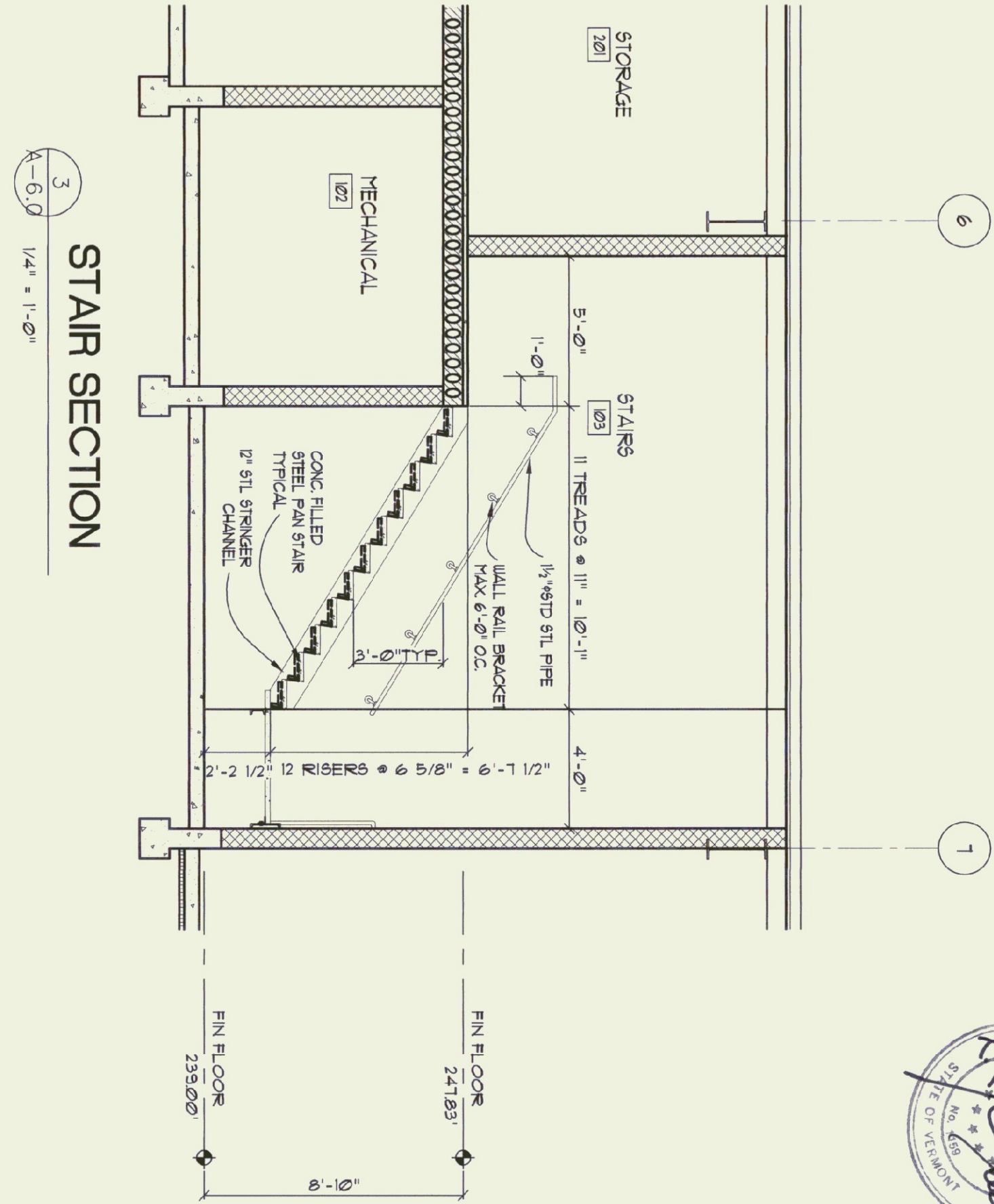
REVISIONS

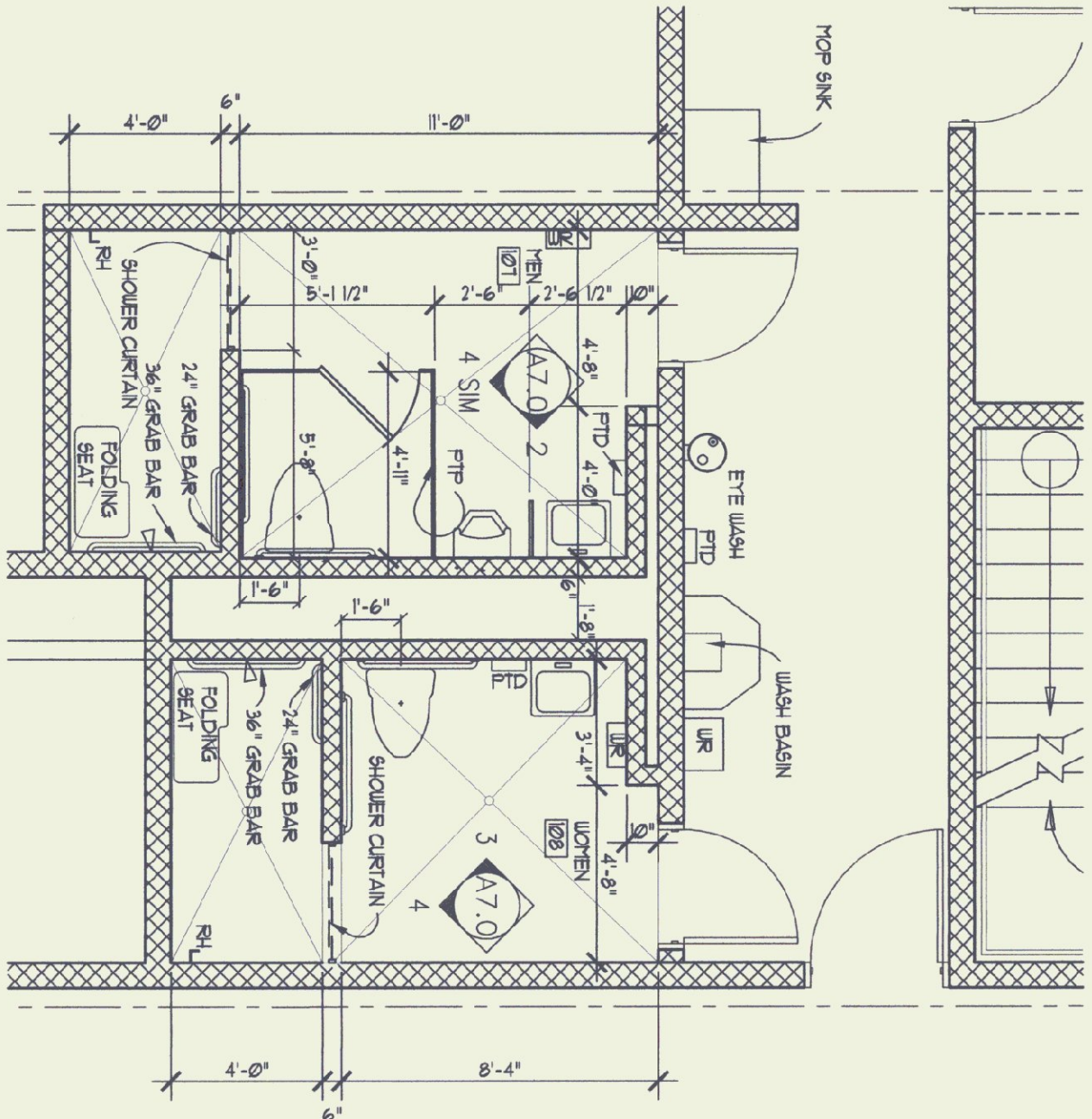
SCALE: 1/4" = 1'-0"
DATE: 9/24/01
DRAWN BY: <i>MTD</i>
APPR. BY: <i>MTD</i>

HIGHGATE
MAINTENANCE
GARAGE

STAIR SECTIONS

A-6.0

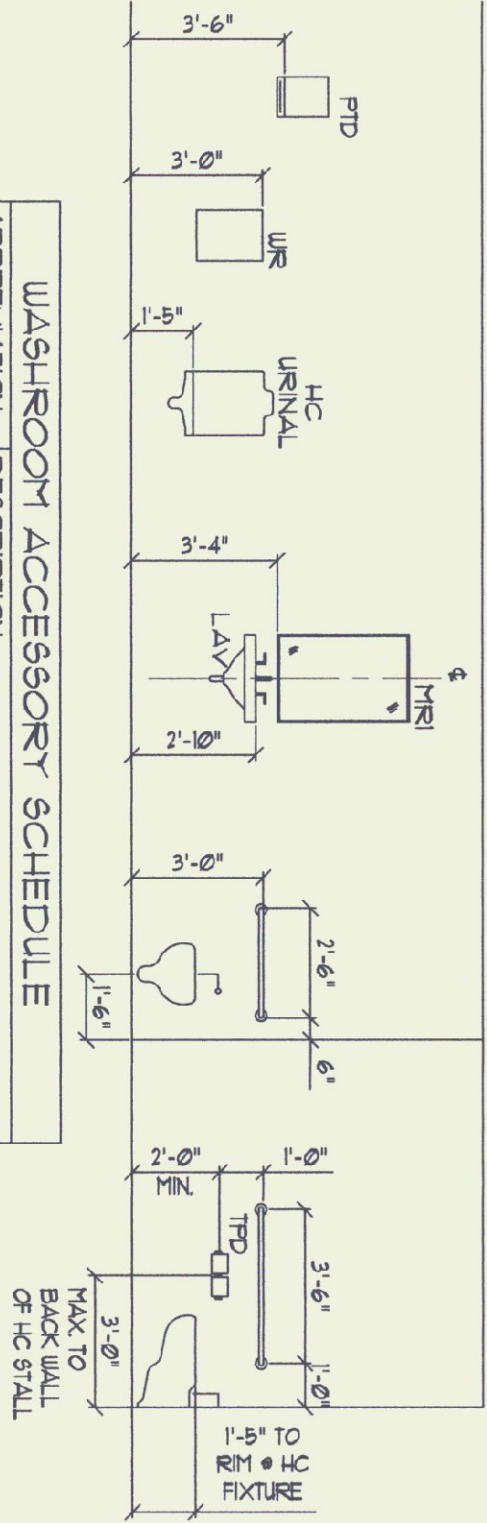




TOILET RMS. PLAN DETAIL

1
A-7.0
1/4" = 1'-0"

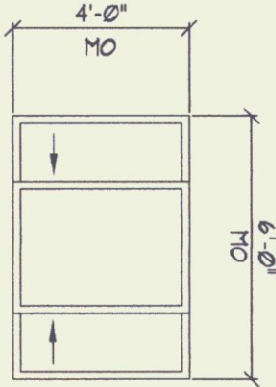
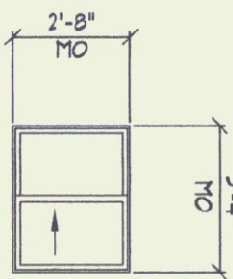
NOTE: PROVIDE ACCESS PANELS IN PLUMBING CHASE
WALL AS REQUIRED - SEE PLUMBING DRUGS AND SPECS.



ABBREVIATION	DESCRIPTION
PTD	MIRROR, 24" X 36"
GB	GRAB BAR
TPD	SHUR MOUNT TOILET TISSUE HOLDER
PTP	PHENOLIC TOILET PARTITION
RH	ROBE HOOK
SD	LIQUID SOAP DISPENSER
PTD	PAPER TOWEL DISPENSER
UR	WASTE RECEPTACLE

NOTES:

1. GC TO FILLY GROUT ON BLOCK CELLS FOR MOUNTING ALL ACCESSORIES

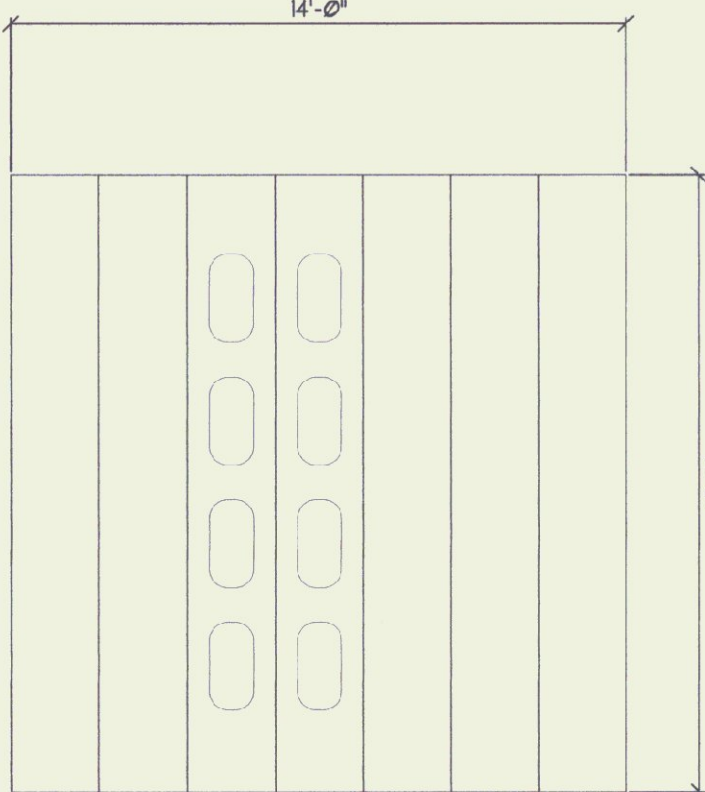
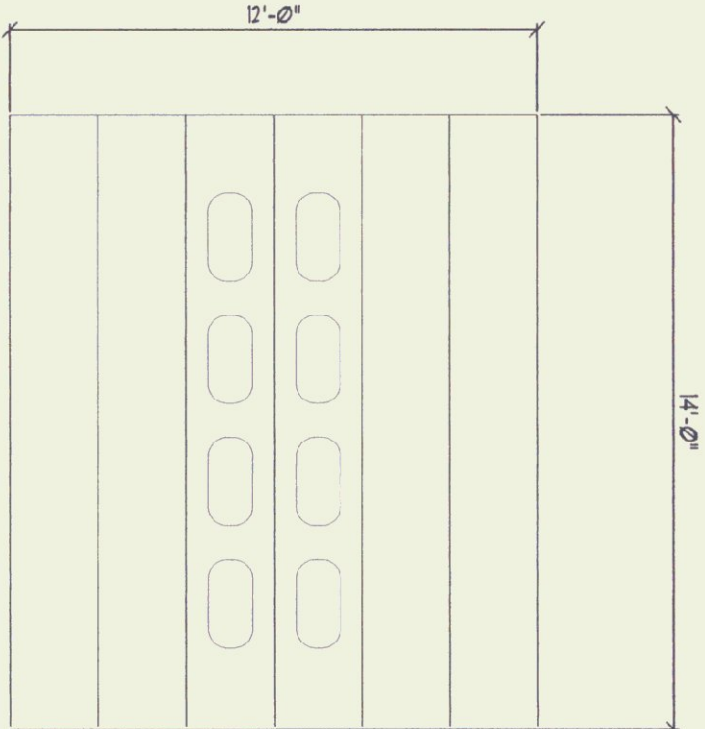
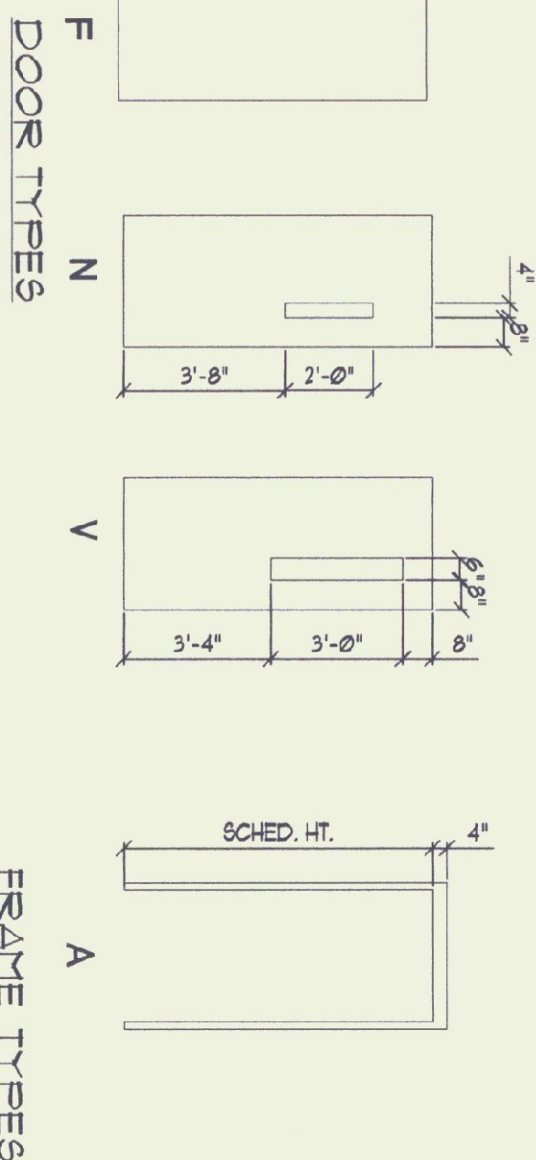


8
A-7.0
1/4" = 1'-0"

WINDOW TYPES

DOOR & FRAME SCHEDULE (INCLUDING BORROWED LITES)									
NUMBER	TYPE	DOOR		FRAME		SILL	LABEL	REMARKS	DOOR NUMBER
		MATERIAL	FINISH	SIZE	FR TYPE	FR MATERIAL	FR FINISH	HEAD	JAMB
1	V	PT	PT	3'-0" X 7'-0"	A	HT	PT	-	-
2	OH	SIL	PT	12'-0" X 14'-0"	-	-	PT	-	-
3	N	HT	PT	3'-0" X 7'-0"	A	HT	PT	-	-
4	N	HT	PT	3'-0" X 7'-0"	A	HT	PT	-	-
5	N	HT	PT	3'-0" X 7'-0"	A	HT	PT	-	-
6	F	HT	PT	3'-0" X 7'-0"	A	HT	PT	-	-
7	F	HT	PT	3'-0" X 7'-0"	A	HT	PT	-	-
8	F	HT	PT	3'-0" X 7'-0"	A	HT	PT	-	-

- NOTES:
1. ALL DOORS ARE 1 3/4" THICK UNLESS NOTED OTHERWISE.
 2. INSULATE ALL EXT. HT DOORS.
 3. ALL DOORS AND FRAMES ARE TO HAVE GALVANIZED PRIMER THEN PAINTED. SEE SPECS.
- DOOR & TITIBOL
- DOOR NUMBER LISTED IN SCHEDULE
- HARDWARE SET

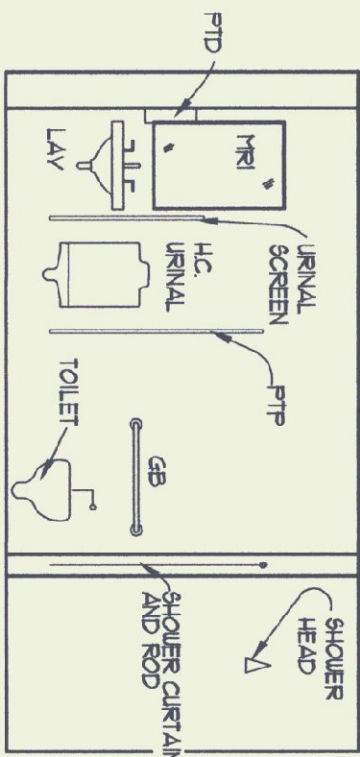


OH1

OH2

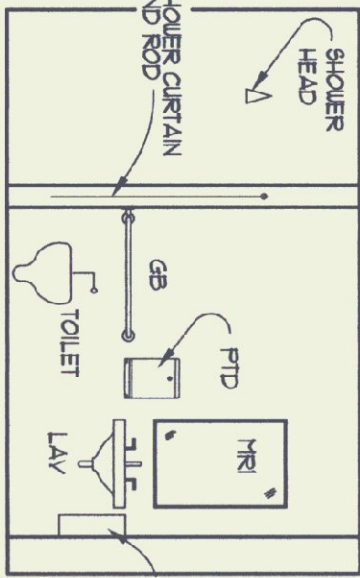
DOOR AND FRAME TYPES

9
A-7.0
1/4" = 1'-0"



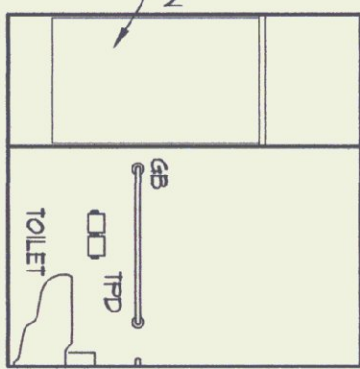
TOILET ELEV.

2
A-7.0
1/4" = 1'-0"



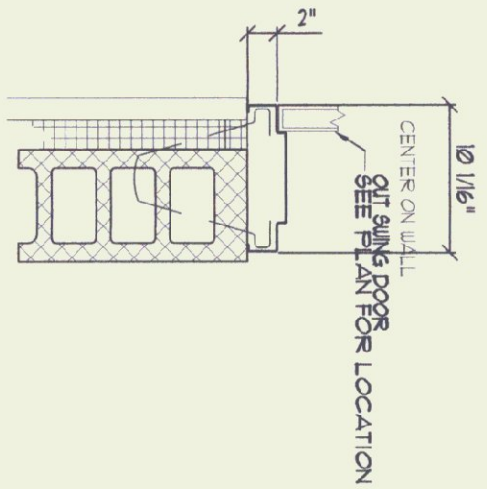
TOILET ELEV.

3
A-7.0
1/4" = 1'-0"

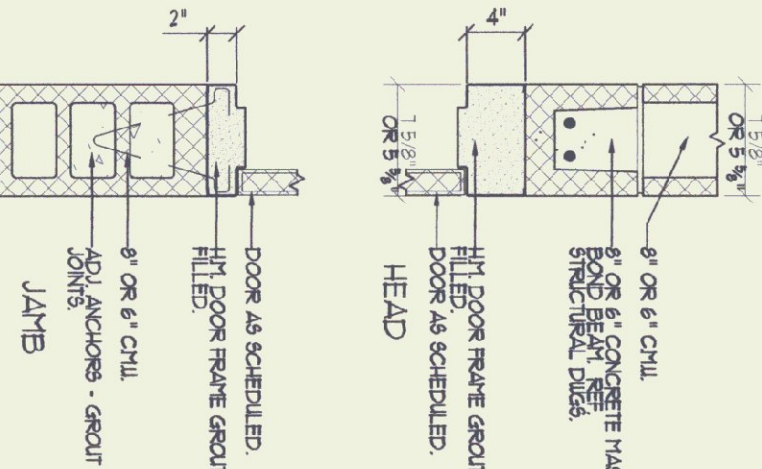


TOILET ELEV.

4
A-7.0
1/4" = 1'-0"

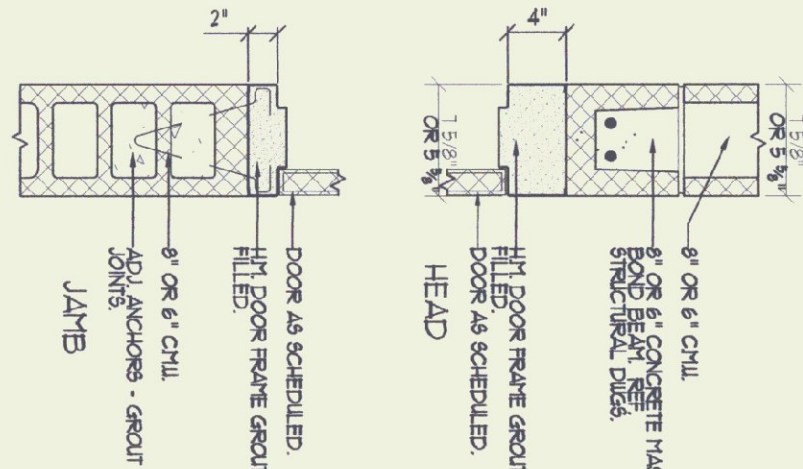


NOTE:
4" FRAME AT HEAD



TYP. EXT. DOOR JAMB

6
A-7.0
1" = 1'-0"



TYP. INT. DOOR JAMB

7
A-7.0
1" = 1'-0"

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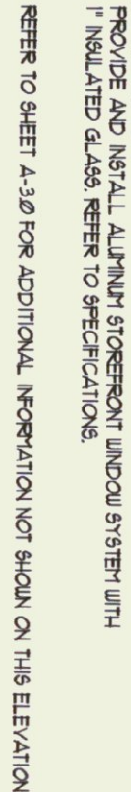
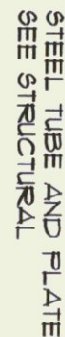
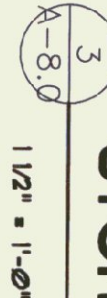
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HIGHGATE MAINTENANCE GARAGE

A-8.0

$\frac{24}{37}$ OF


$$\frac{1}{A-3.0} \quad v_B = 1.0$$

$$\frac{2}{A-8.0}$$


$$\frac{4}{A-8.0}$$





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



AGENCY OF TRANSPORTATION
HIGHGATE MAINTENANCE FACILITY
40' x 84' SALT/SAND SHED

HIGHGATE

VERMONT

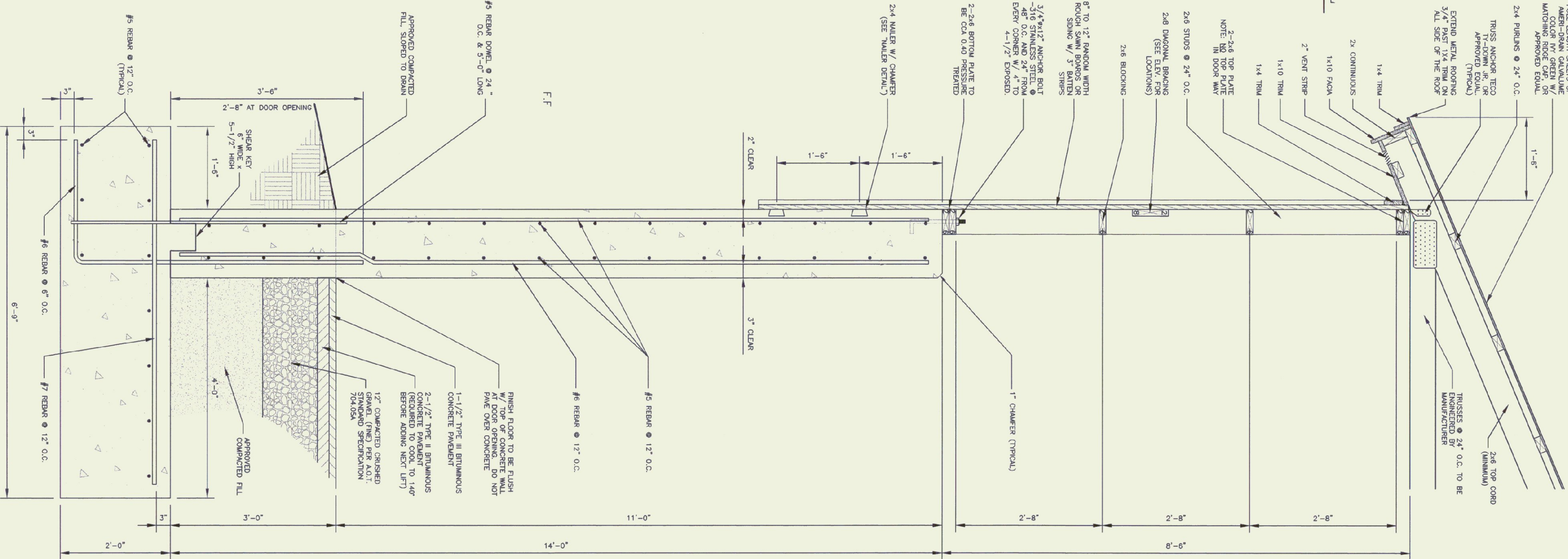
REVISIONS	
7/8/98 GDN	
2/10/99 BTM	
10/15/99 ADW	
03/15/01 KDC	
09/05/01 BTM	

SCALE: AS NOTED
DATE: 09/24/01
DRAWN BY: K.CHISHOLM
APPR. BY:

HIGHGATE
40' x 84'
SALT SHED

PLAN & DETAILS

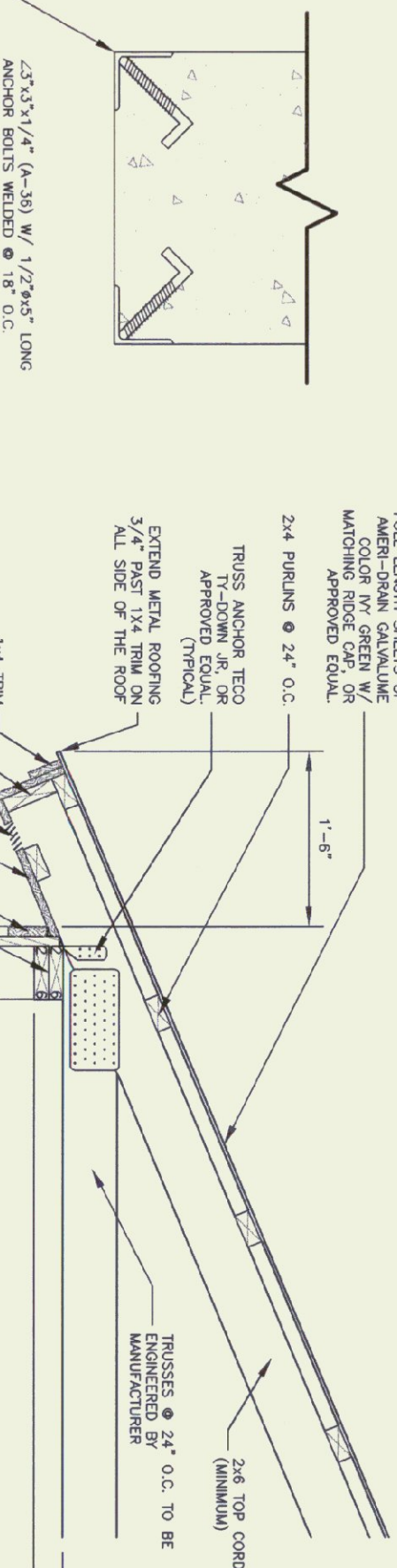
25 OF 37



WALL SECTION (TYP.)

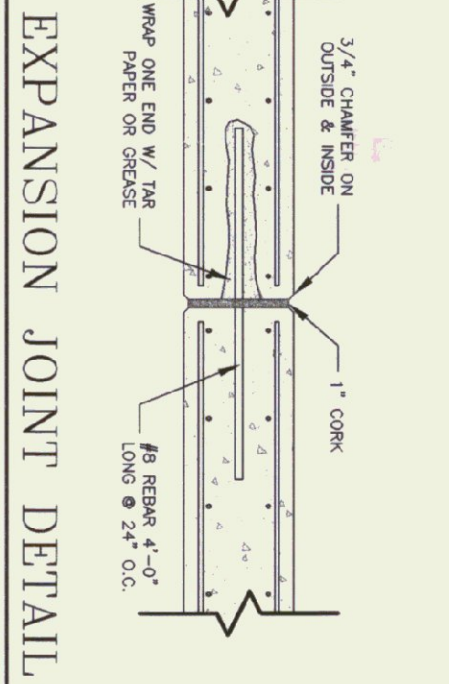
SCALE: 3/4" = 1'-0"

TYPICAL OF 2



CORNER GUARD DETAIL

SCALE: 1-1/2" = 1'-0"

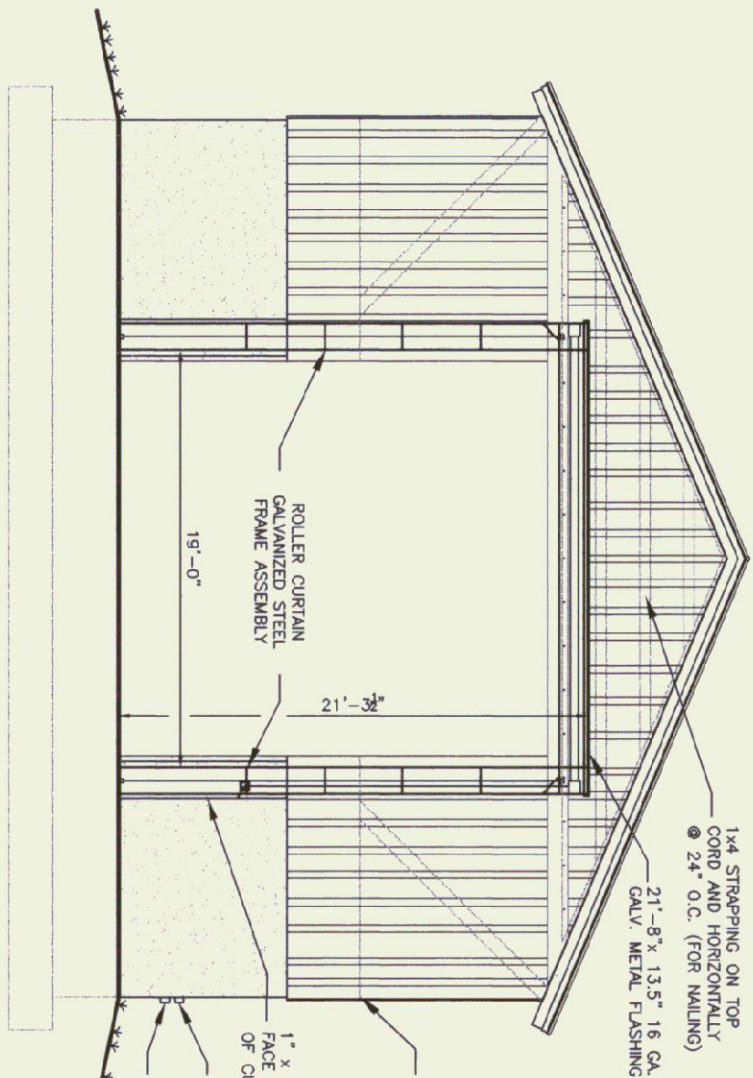


EXPANSION JOINT DETAIL

SCALE: 1/2" = 1'-0"

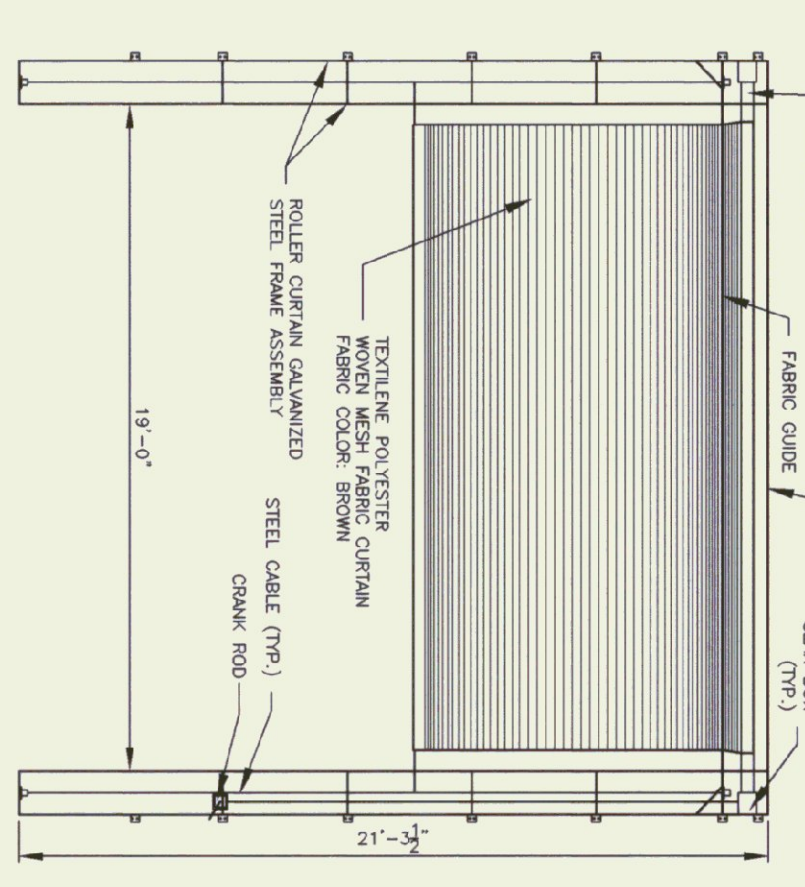
CORNER DETAIL

SCALE: 1/2" = 1'-0"



ROLLER CURTAIN ASSEMBLY

SCALE: 1/8" = 1'-0"



NEW ROLLER CURTAIN

SCALE: N.T.S.

GENERAL NOTES:

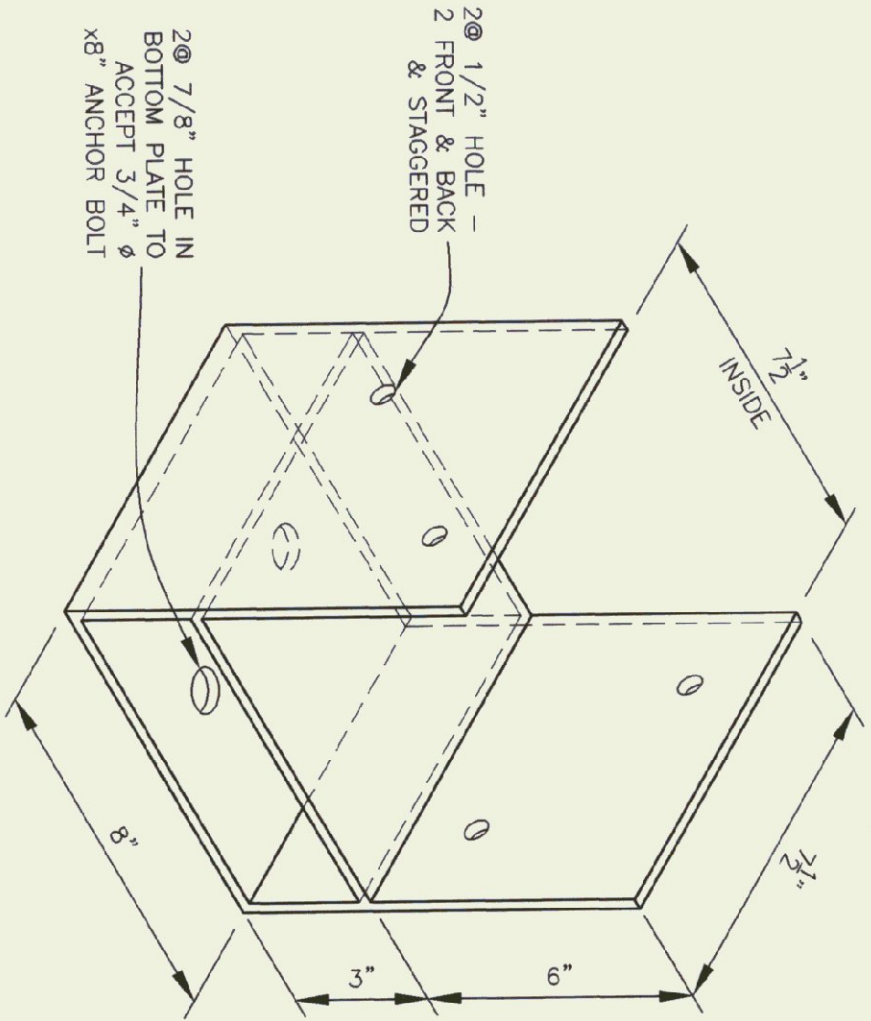
ALL MATERIALS TO BE FURNISHED BY THE CONTRACTOR.
ALL EXPOSED METAL, EXCEPT GALVANIZED, (CORNER ANGLES, DOOR GUIDES, BRACKETS, ETC.) SHALL BE PAINTED FLAT BLACK (2 MILS THICK, DRY, MIN) OVER RUST INHIBITING PRIMER.
ALL ELECTRICAL WORK SHALL COMPLY WITH N.E.C.
ALL FRAMING AND BOARD & BATTEN SINGING MATERIALS SHALL BE FURNISHED USING APPROPRIATELY SIZED GALVANIZED FASTENERS AND ACCORDING TO INDUSTRY STANDARDS.
ALL FLOORING WORK, BACK FILL MATERIAL, FLOOR MATERIAL, ETC. TO BE SUBSIDIARY TO THE LUMP SUM ITEM.
ROOFING COLOR - IV GREEN (AMER-DRINK)

TRUSS NOTES:

TRUSS MANUFACTURER TO SUBMIT TO THE PROJECT ENGINEER A FULL SET OF ENGINEERED AND STAMPED DRAWINGS FOR APPROVAL PRIOR TO TRUSS MANUFACTURE.
TRUSS MANUFACTURER TO PROVIDE THE CONTRACTOR WITH ALL THE NECESSARY INSTRUCTIONS FOR PROPER TRUSS INSTALLATION, ANCHORAGE, BRACING, LIFTING, ETC.
TRUSS DESIGN IN ACCORDANCE WITH THE 1987 B.O.C.A. FOR VERMONT MINIMUM LOADS.
LIVE - 40 P.S.F. - PER 1994 VERMONT FIRE PROTECTION CODE.
DEAD - 46 CALCULATED FROM TRUSS AND ROOF MATERIALS AND IN ADDITION 5 P.S.F. ON BOTTOM CHORDS.
WIND - 25 P.S.F.
DIAGONAL BRACING PER TRUSS MANUFACTURER AND PER MANUAL TRUSS BRACING DETAIL IN SPECIFICATIONS.

WOODER NOTES:

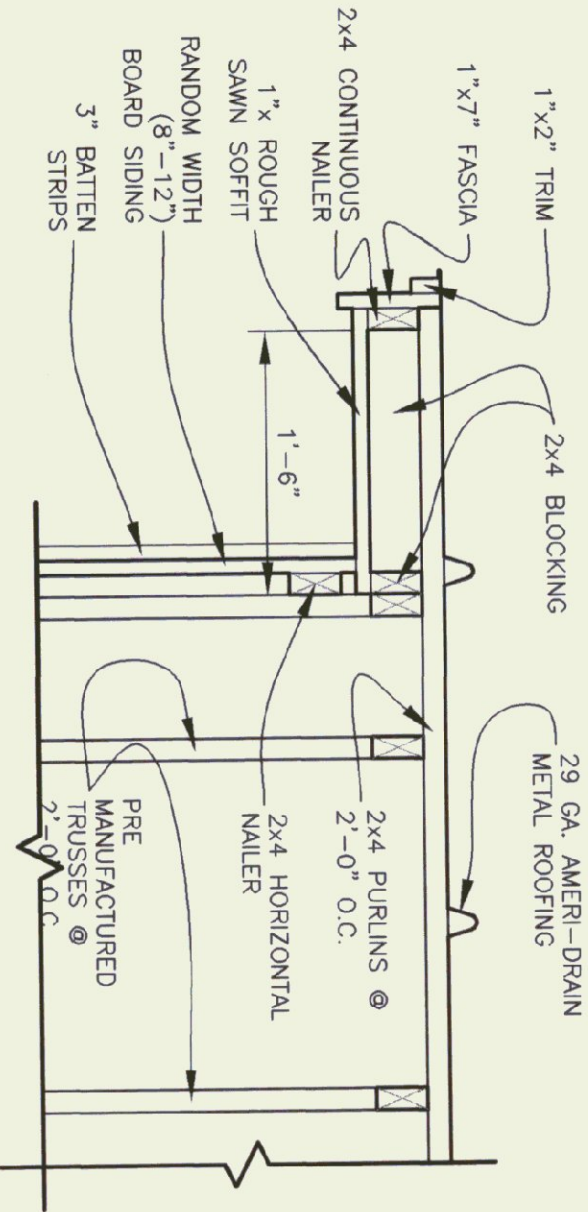
FRAMING MEMBERS TO BE KILN DRIED CONIST GRADE SERVICE S4S MAX 19% MOISTURE CONTENT.
PLATES & BATTENS IN CONTACT WITH CONCRETE TO BE CCA 0.40 PRESURIZED TREATED.
BOARD & BATTEN SINGING TO BE RANDOM WIDTH 8"-12" - BATTENS WITH 5" - BATTENS WITH 3" - BATTENS WITH 1" - BATTENS WITH 1/2" - BATTENS WITH 1/4" - BATTENS WITH 1/8" - BATTENS WITH 1/16" - BATTENS WITH 1/32" - BATTENS WITH 1/64" - BATTENS WITH 1/128" - BATTENS WITH 1/256" - BATTENS WITH 1/512" - BATTENS WITH 1/1024" - BATTENS WITH 1/2048" - BATTENS WITH 1/4096" - BATTENS WITH 1/8192" - BATTENS WITH 1/16384" - BATTENS WITH 1/32768" - BATTENS WITH 1/65536" - BATTENS WITH 1/131072" - BATTENS WITH 1/262144" - BATTENS WITH 1/524288" - BATTENS WITH 1/1048576" - BATTENS WITH 1/2097152" - BATTENS WITH 1/4194304" - BATTENS WITH 1/8388608" - BATTENS WITH 1/16777216" - BATTENS WITH 1/33554432" - BATTENS WITH 1/67108864" - BATTENS WITH 1/134217728" - BATTENS WITH 1/268435456" - BATTENS WITH 1/536870912" - BATTENS WITH 1/1073741824" - BATTENS WITH 1/2147483648" - BATTENS WITH 1/4294967296" - BATTENS WITH 1/8589934592" - BATTENS WITH 1/17179869184" - BATTENS WITH 1/34359738368" - BATTENS WITH 1/68719476736" - 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NOTES:
POST BASE TO BE
FABRICATED FROM
1/4" PLATE STEEL,
PRIMED & PAINTED
BLACK BEFORE
INSTALLATION.

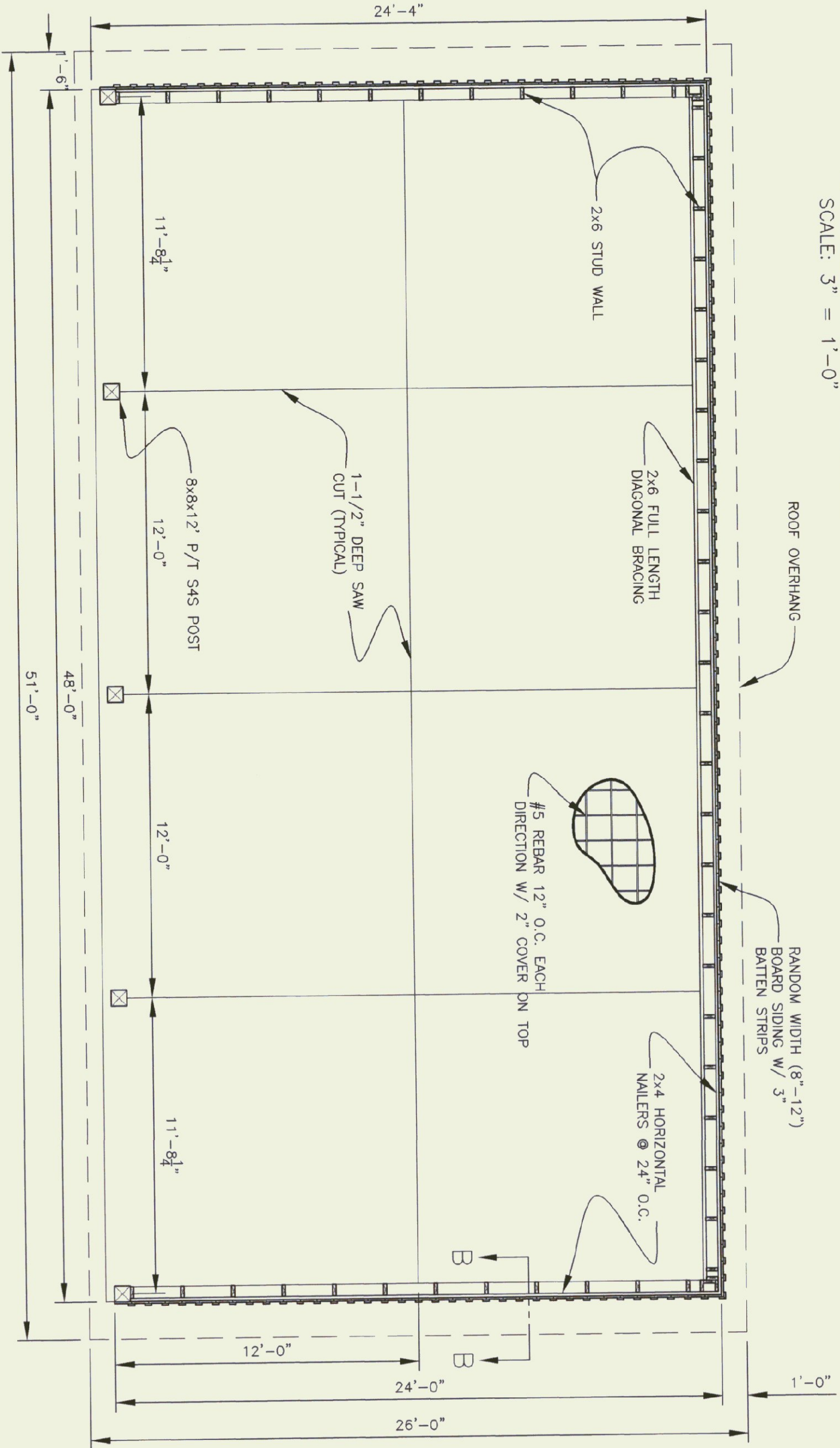
POST BASE DETAIL

SCALE: 3" = 1'-0"



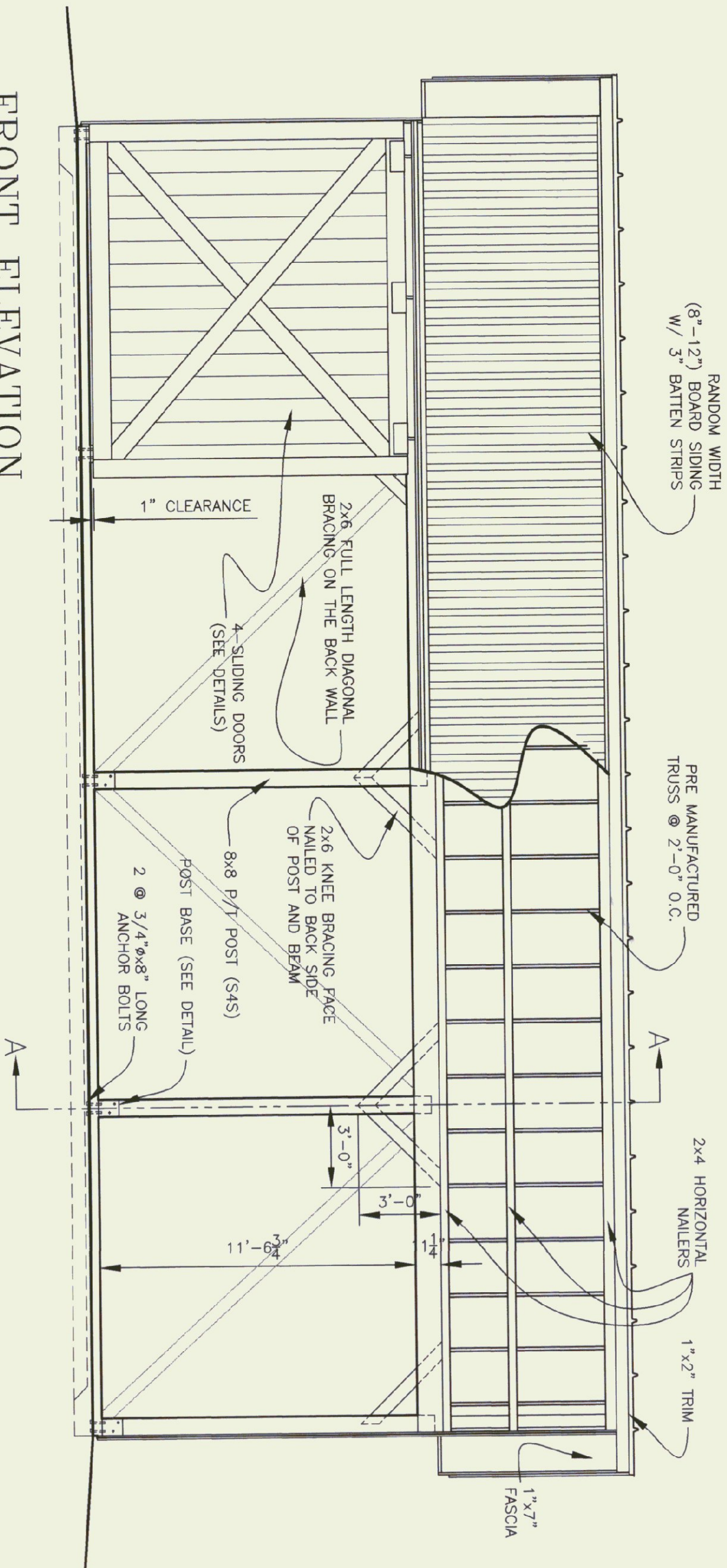
SOFFIT DETAIL

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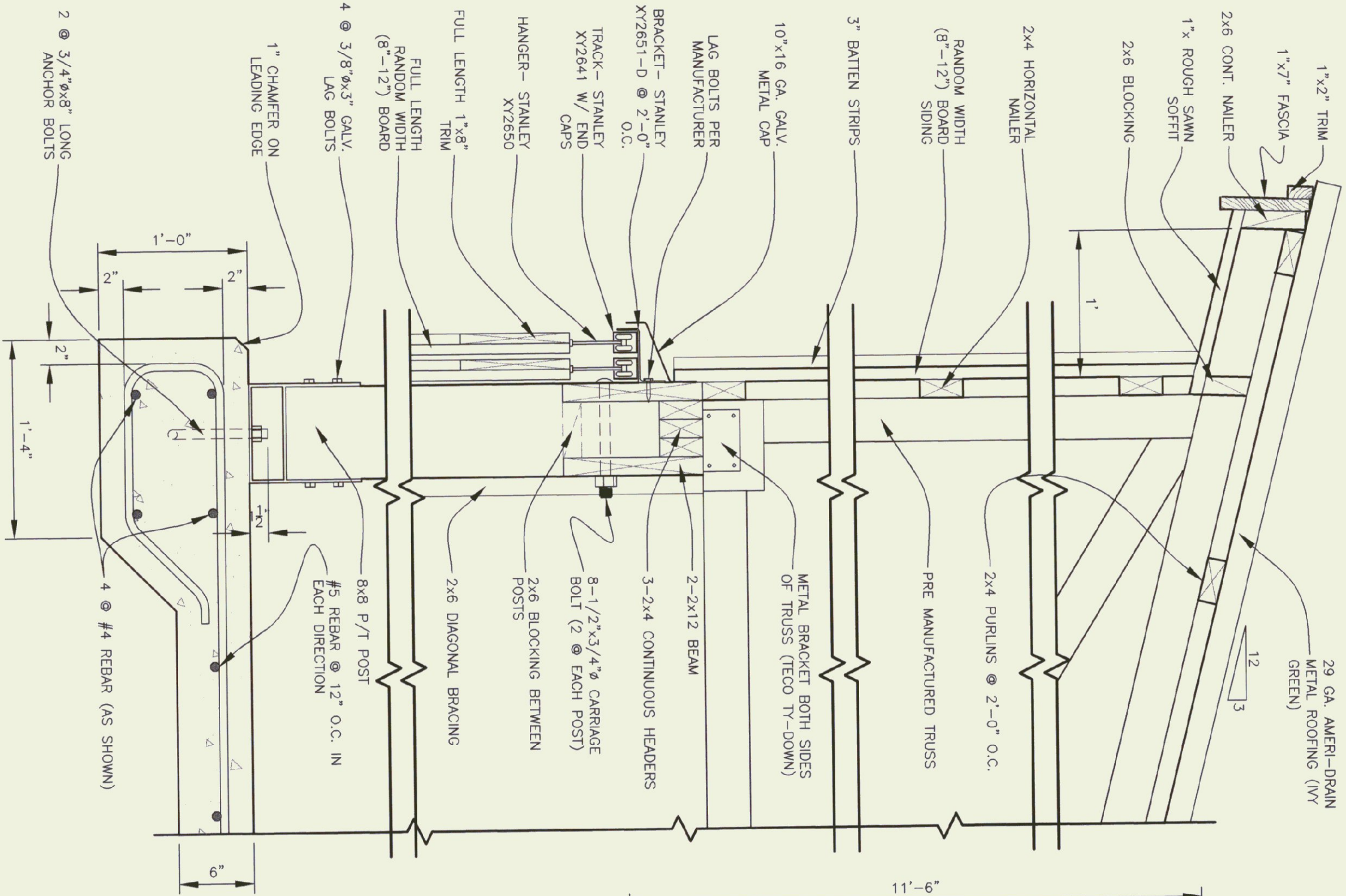
SHED PLAN

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



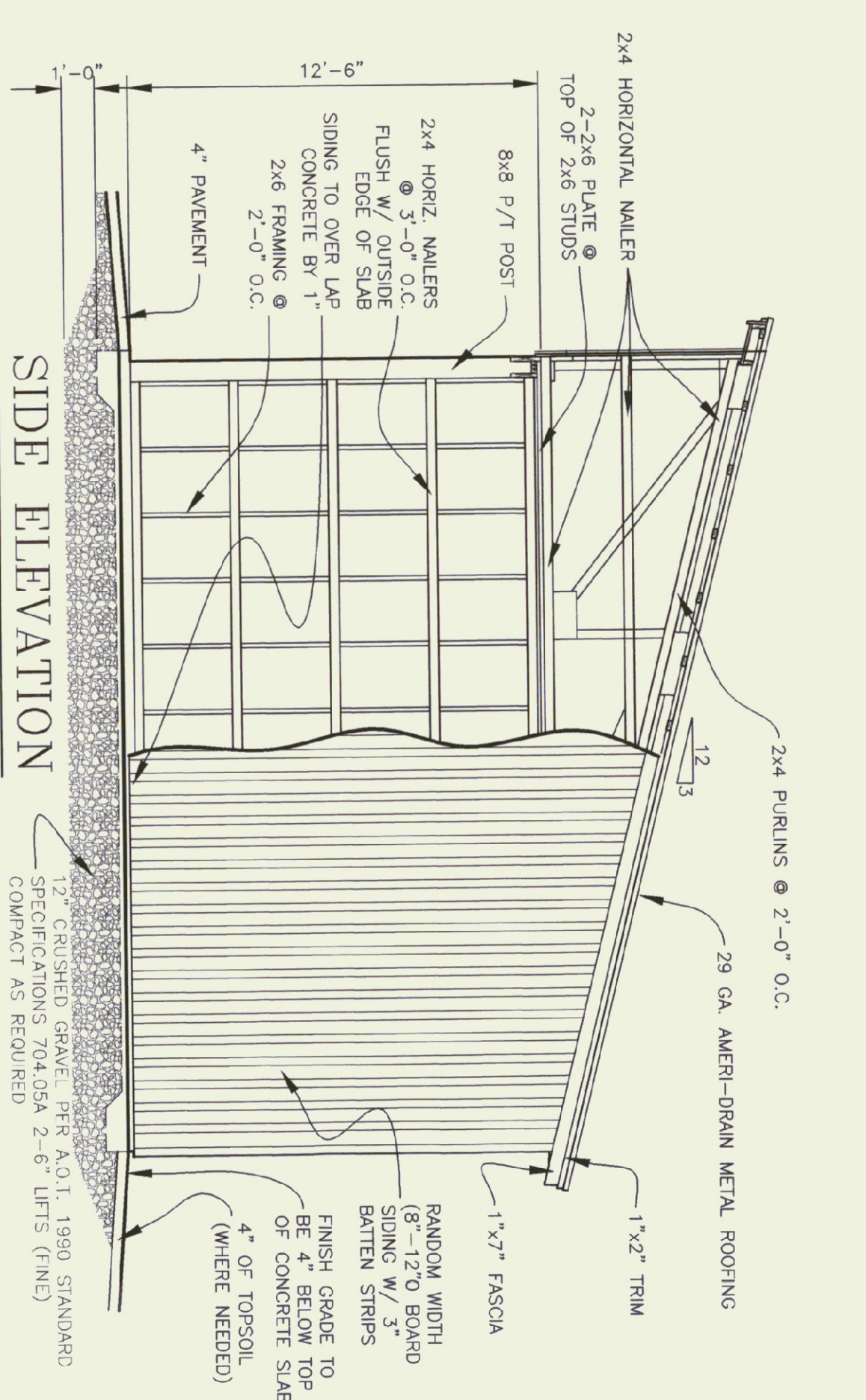
FRONT ELEVATION

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



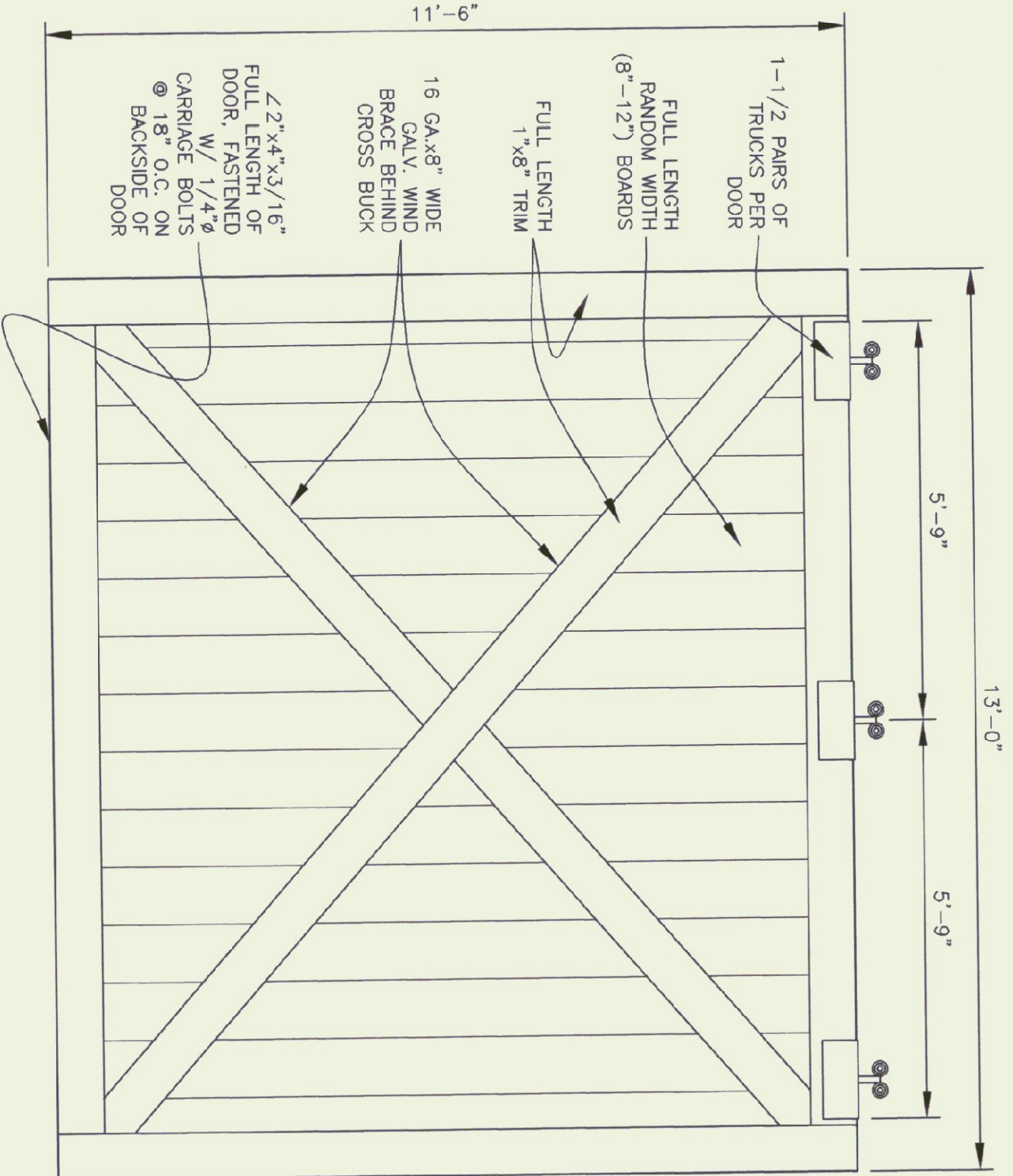
SECTION A-A

SCALE: 1-1/2" = 1'-0"



SIDE ELEVATION

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



DOOR DETAIL

SCALE: 1/2" = 1'-0"

GENERAL NOTES

- TRUSS NOTES**
- TRUSS MANUFACTURER TO PROVIDE DETAIL OF STATE BUILDINGS ENGINEER A SET OF ENGINEERED & STAMPED DRAWINGS FOR APPROVAL PRIOR TO TRUSS MANUFACTURE.
- TRUSS MANUFACTURER TO PROVIDE THE CONTRACTOR WITH ALL NECESSARY INSTRUCTIONS FOR PROPER TRUSS INSTALLATION, ANCHORAGE, BRACING, LIFTING, ECT.
- TRUSS DESIGN LOADS IN ACCORDANCE WITH THE 1987 B.O.C.A. FOR VERMONT.
- MINIMUM LOADS:**
- LIVE - PER 1987 B.O.C.A. FOR VERMONT (40 PSF MIN.)
- DEAD - AS CALCULATED FROM TRUSS & ROOF MATERIAL
- 5 PSF ON BOTTOM CHORD
- WIND - 25 PSF
- DIAGONAL WIND BRACING PER TRUSS MANUFACTURE.
- LUMBER NOTES:**
- FRAMING MEMBERS TO BE KILN DRIED CONSTRUCTION GRADE SPRUCE S4S 19% MOISTURE CONTENT.
- PLATES & NAILERS IN CONTACT WITH CONCRETE TO BE CCA 0.40 TREATED
- BOARD & BATTEN SIDING, TRIM, AND SOFFIT MATERIAL TO BE NATIVE ROUGH SAWN WHITE PINE, SPRUCE, EASTERN FIR OR RED PINE. BOARDS TO BE RANDOM WIDTH 8"-12" - BATTEN 3".
- BOARD SIDING & BATTEN STRIPS TO BE FULL LENGTH (NO HORIZONTAL JOINTS).
- ALL FASTENERS TO BE GALVANIZED AND SHALL BE APPROPRIATELY SIZED.
- FINISH NOTES:**
- ALL BOARDS & BATTEN TO BE STAINED WITH ONE COAT (ALL SURFACES) PRIOR TO INSTALLATION. AFTER INSTALLATION EXTERIOR SIDING TO RECEIVE ONE ADDITIONAL COAT OF STAIN.
- ROOFING COLOR: IVY GREEN (BY AMERI-DRAIN)
- STAIN TO BE OLIVARIC OIL BASE SEMI-TRANSPARENT OXFORD BROWN #713.
- CONCRETE NOTES:** PER A.O.T. STANDARD.
- STRENGTH: 3500 PSI
- FINISH: FLOATED
- CURING METHOD: PER TABLE 501.17A



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



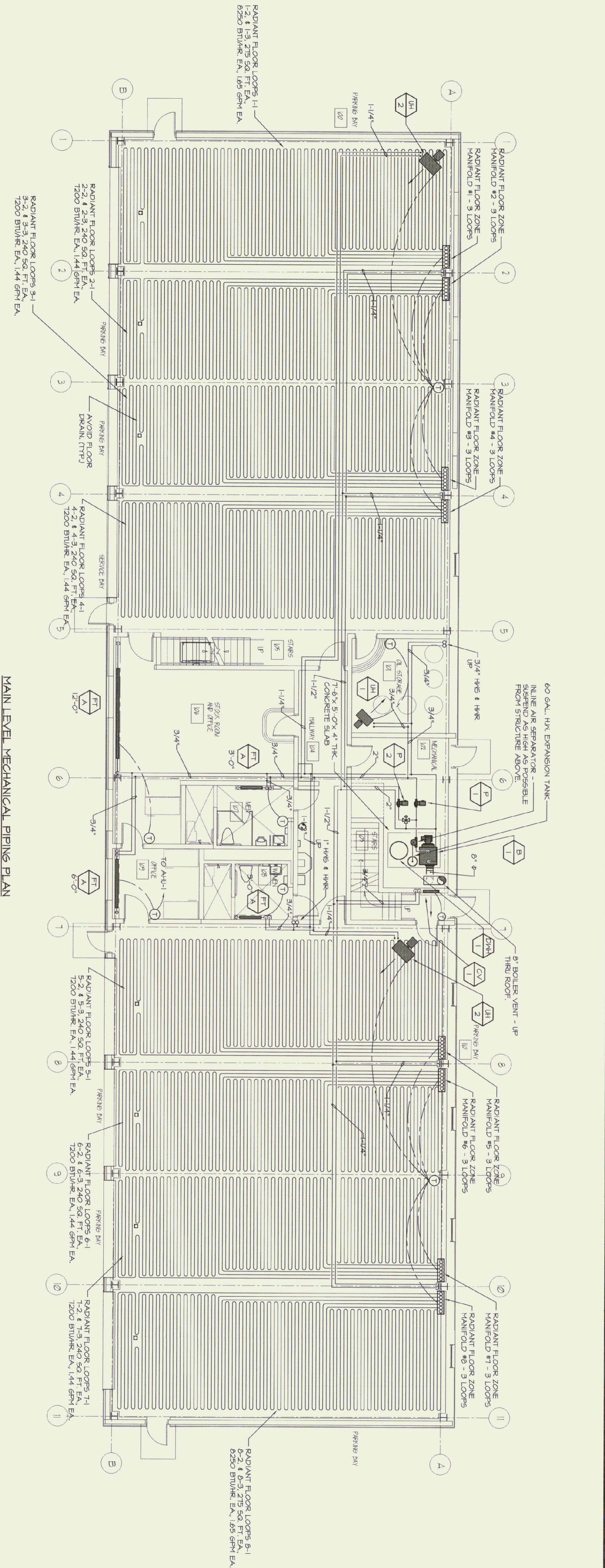
AGENCY OF TRANSPORTATION
HIGHGATE MAINTENANCE FACILITY
24'x48' STORAGE SHED

HIGHGATE VERMONT

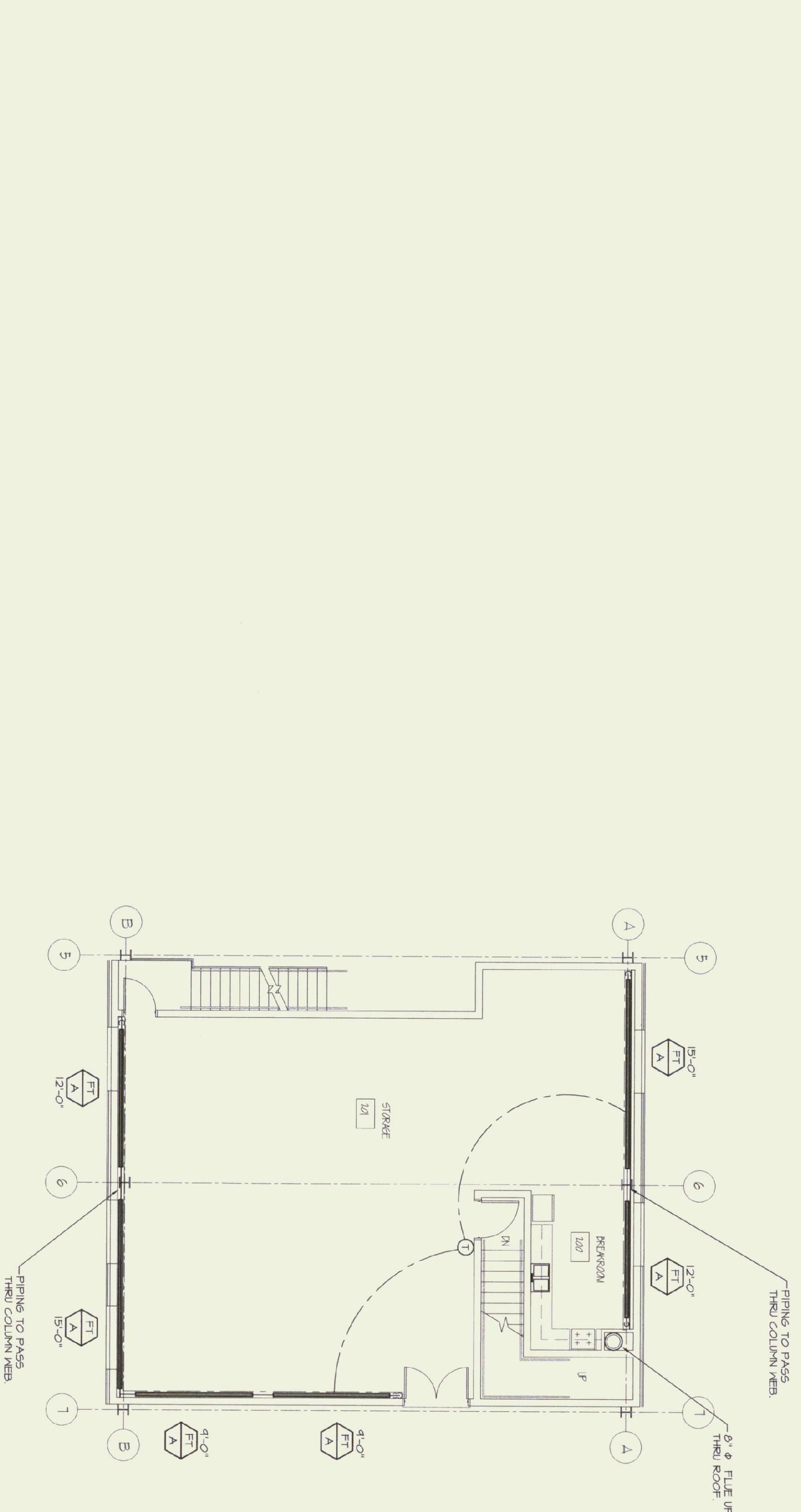
REVISIONS	
9/1/99 BTM	
10/15/99 ADW	
09/05/01 BTM	

SCALE: As Noted
DATE: 09/24/01
DRAWN BY: Brad McAvoy
APPR. BY:

A.O.T.
24'x48'
STORAGE SHED
HIGHGATE



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



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

HVAC SYMBOL LIST	
ALL SYMBOLS ARE NOT NECESSARILY USED	
1-1	BALANCING COCK
1-2	FLOW BALANCER
1-3	STRAINER/STATIC TRAP ASSEMBLY
1-4	FLOAT & THERMOSTATIC TRAP ASSEMBLY
1-5	BUCKET TRAP ASSEMBLY
1-6	THERMOSTATIC TRAP
1-7	THERMOMETER
1-8	THERMOMETER/CONTROL WELL
1-9	PUMP PITCH DOWN/CURVE RISE
1-10	FINED TUBE RADIATION ELEMENT
1-11	WALL TO WALL FIN TUBE ENCLOSURE
1-12	RETURNS OR EXHAUST DUCT SECTION
1-13	ROUND DUCT SECTION
1-14	FIRE DAMPER
1-15	BACKDRAFT DAMPER
1-16	SMOKE DAMPER
1-17	MANUAL DAMPER
1-18	MOTOR OPERATED DAMPER
1-19	CUBIC FEET/MINUTE
1-20	FEET/MINUTE
1-21	NOT TO SCALE
1-22	SMOKE DETECTOR
1-23	THOUSAND BTU/HOUR
1-24	EXISTING
1-25	THERMOSTAT
1-26	ELECTRIC THERMOSTAT
1-27	WITH MULTIPLE SET POINTS
1-28	WITH A SENSING
1-29	STATIC PRESSURE SENSOR
1-30	HUMIDISTAT
1-31	UNDERCUT DOOR (1" BY THE 6" C)
1-32	LOVERCUT DOOR, INDICATES 50 FT. FREE AREA
1-33	AIR FLOW THERMAL LINKS
1-34	SOUND ATTENUATOR
1-35	WORK TO BE REMOVED
1-36	NEW TO EXISTING CONNECTION
1-37	REGISTER, DIFFUSER OR
1-38	GRILLE DESIGNATION



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STATE OF VERMONT
DEPARTMENT OF BUILDINGS
AND GENERAL SERVICES
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT



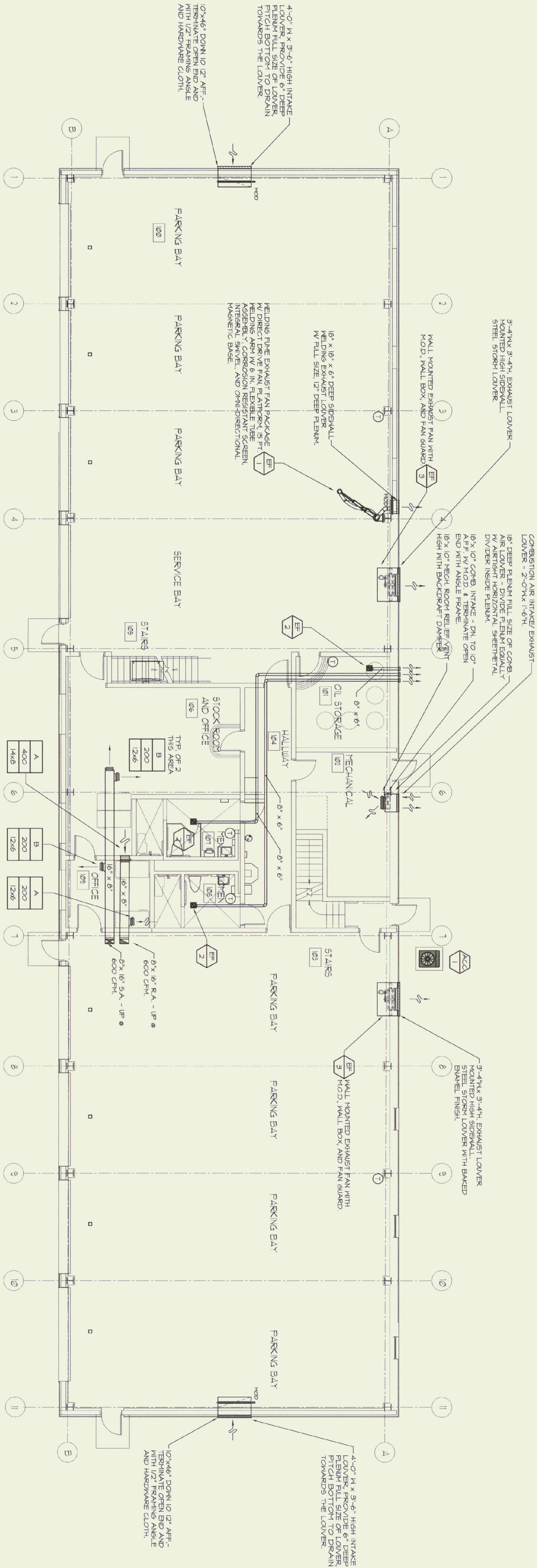
1795 WILLISTON RD, STE 5
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1400 HANCOCK STREET
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AGENCY OF TRANSPORTATION
HIGHGATE MAINTENANCE FACILITY
HIGHGATE
AIRPORT ROAD
HIGHGATE, VERMONT

REVISIONS
DATE: 09/24/01
DRAWN BY: MAM
APPR. BY: MDV

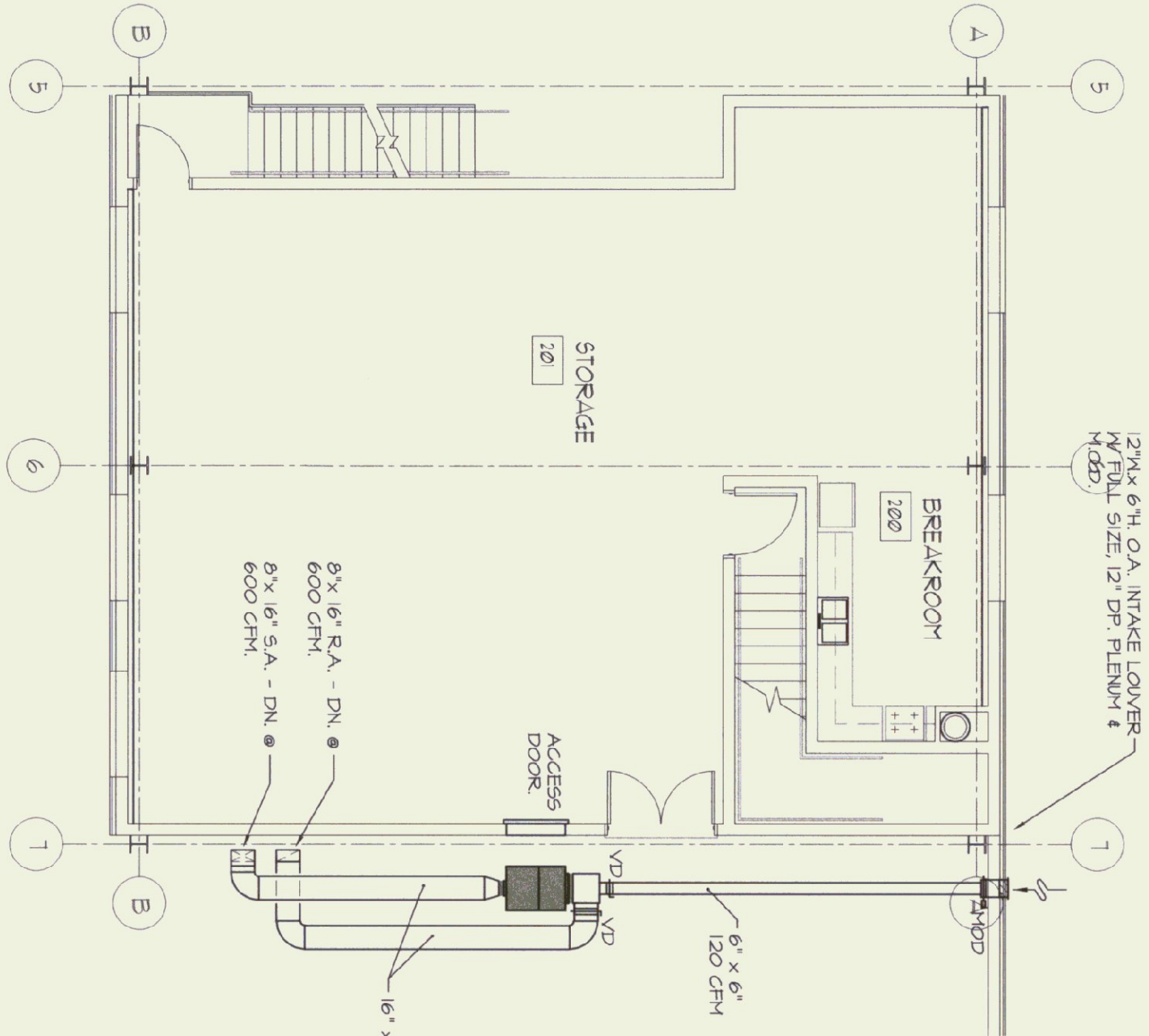
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HIGHGATE
MAINTENANCE
GARAGE
MECHANICAL
FLOOR PLAN



MAIN LEVEL MECHANICAL DUCTWORK PLAN

SCALE: 1/8" = 1'-0"



UPPER LEVEL MECHANICAL DUCTWORK PLAN

SCALE: 1/8" = 1'-0"



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STATE OF VERMONT
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HIGHGATE MAINTENANCE FACILITY
HIGHGATE

AIRPORT ROAD

HIGHGATE, VERMONT

REVISIONS

SCALE: AS SHOWN
DATE: 09/24/10
DRAWN BY: MAM
APPR. BY: MDV

HIGHGATE
MAINTENANCE
GARAGE
MECHANICAL
FLOOR PLAN

M-2
30 OF 37

[illegible]

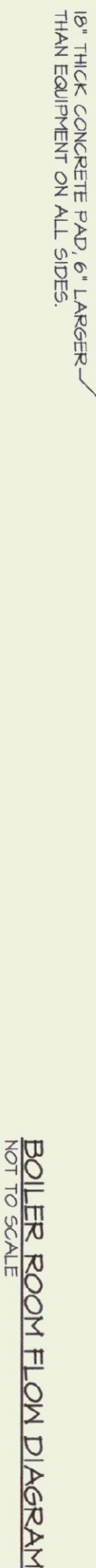
FAN SCHEDULE																	
UNIT NO.	LOCATION	SERVICE	TYPE	CFM	S.P. DIA	BLADE TYPE	TIP FAN SPEED (RPM)	OUTLET (RPM)	DRIVE DISCHARGE	CONTROL	MOTOR				DESIGN EQUIPMENT		
											RPM	HP	VOLTS	PHASE		STARTER	PILOT LIGHT
EF-1	AS SHOWN	WEL DING	UTILITY	300	3.0"	T"	---	---	DIRECT	LOCAL 5M	---	208	3	C, MAG	NO	CORBAN SERIES CVM - 6" HOSE	
EF-2	AS SHOWN	CEILING	ISO	0.25"	6"	---	---	---	DIRECT	LOCAL 5M	400	113 M	120	1	MAN.	NO	GREENHECK SP-218
EF-3	AS SHOWN	SIDEWALL	4500	0.125"	24"	PROF.	---	---	BELT	LOCAL 5M	750	1/3	120	1	MAN.	NO	GREENHECK SBLL-24

RADIATION SCHEDULE - HOT WATER										
TYPE	LOCATION	SERVICE	ENCLOSURE				ELEMENT			
			H	D	MOUNT, HGT. TO TOP	TYPE SIZE	H	M	ROVQ	FIN/FT
ETA	AS SHOWN	HEATING	14"	4 1/4"	16"	3 1/4"	3 1/4"	1	50	STERILING JVA-5
CV-1	AS SHOWN	HEATING	20"	4"	24"	---	---	---	---	STERILING FIVE-A 420 X 201 L.

[illegible]

UNIT HEATER SCHEDULE - HOT WATER										100 F. W.T.				
TYPE	LOCATION	SERVICE	TYPE	CFM	CAPACITY HEB	CFM	PRE- DROPT F. HE	EAT F.	LAT. F.	FAN MOTOR			DESIGN EQUIPMENT	
										REFM	HP	VOLTS		PHASE
UH-1	AS SHOWN	HEATING	HORIZ.	345	131	0.75	34	60	45	1550	9 KWATT	120	1	STERLING H818
UH-2	AS SHOWN	HEATING	HORIZ.	2200	2200	1180	40	60	110	1140	1/4 HP	120	1	STERLING H818D

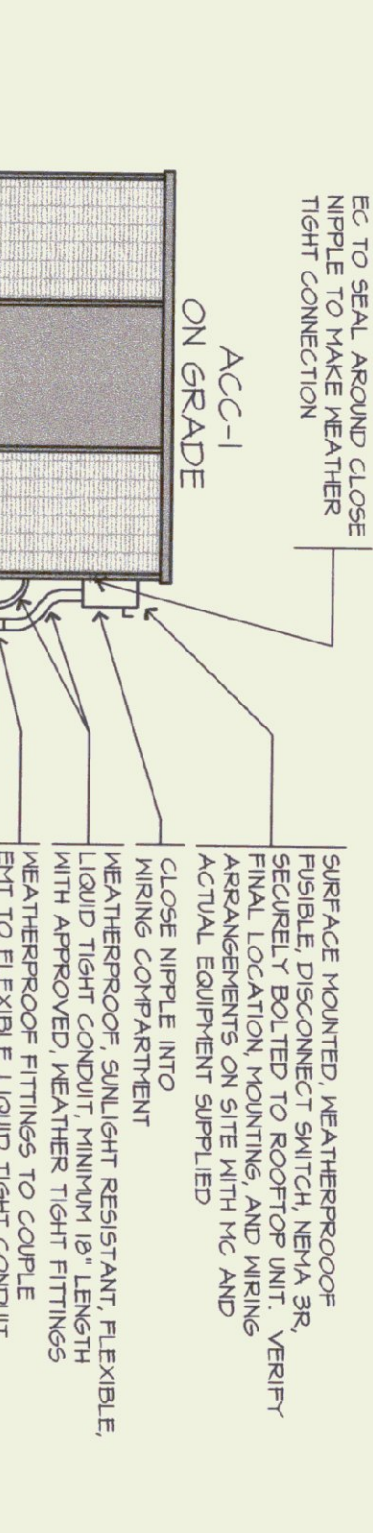
PUMP SCHEDULE										
PUMP NO.	LOCATION	SERVICE	GPM	HEAD WATER	MAX WHP	MOTOR		STARTER	PUMP TYPE	DESIGN EQUIPMENT
						H.P.	VOL.TS	PHASE		
P-1	A5 SHOWN	HEATING	40	30	175	1	208	3ø	C. MAG.	TACO 1616
P-2	A5 SHOWN	RADIANT FLOOR	40	40	175	1-1/2	208	3ø	C. MAG.	TACO 1616
P-3	A5 SHOWN	DHW	6	20	175	1/2	120	1	C. MAG.	TACO 004

[illegible]

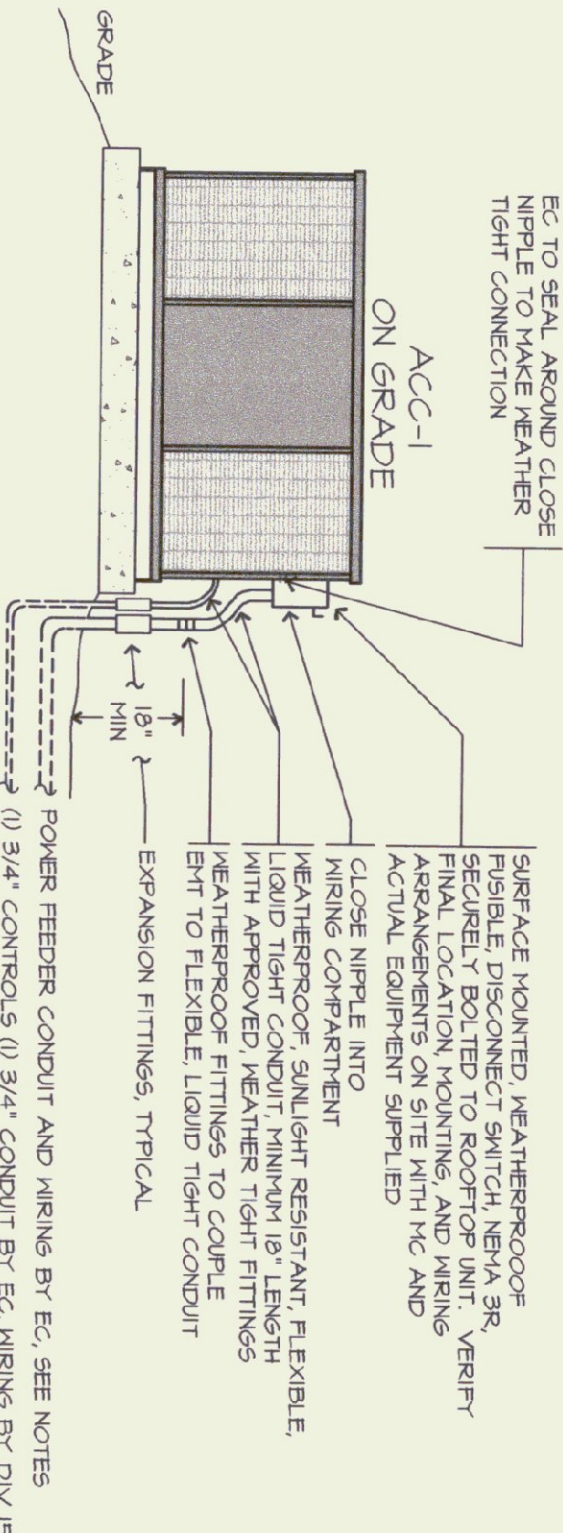
NOT ALL SYMBOLS ARE NECESSARILY USED

- [illegible]

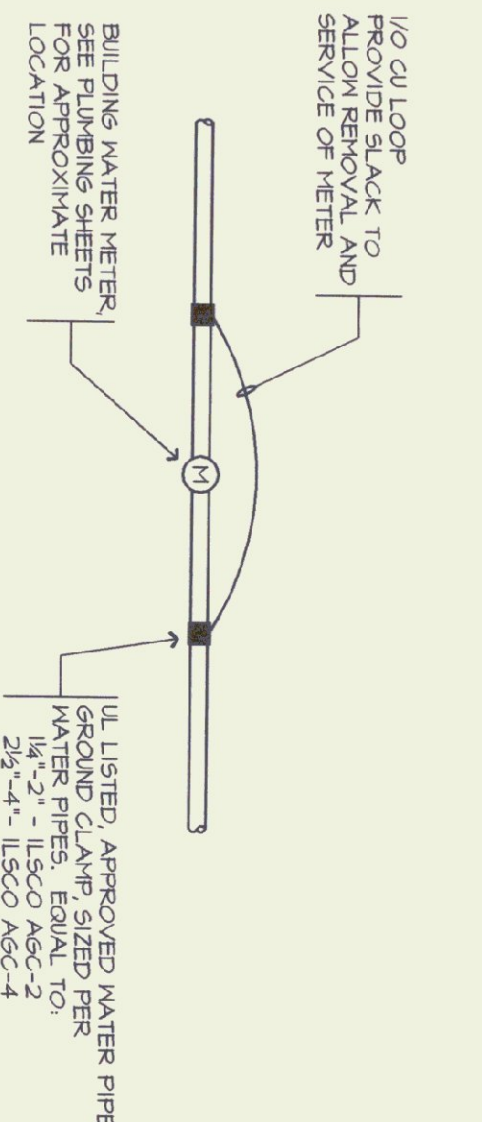
NOT TO SCALE



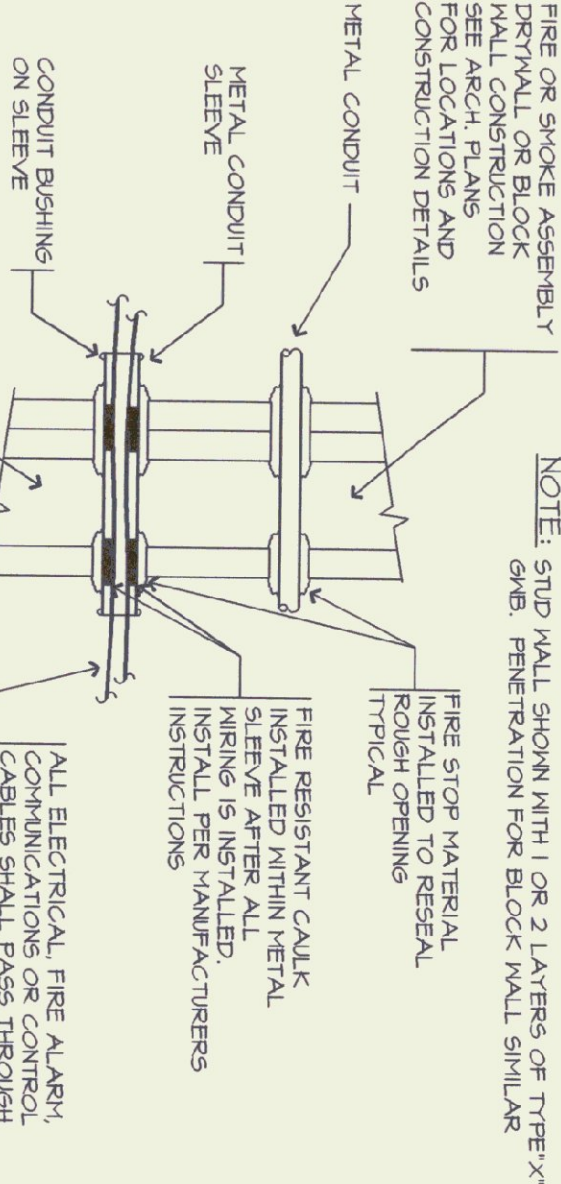
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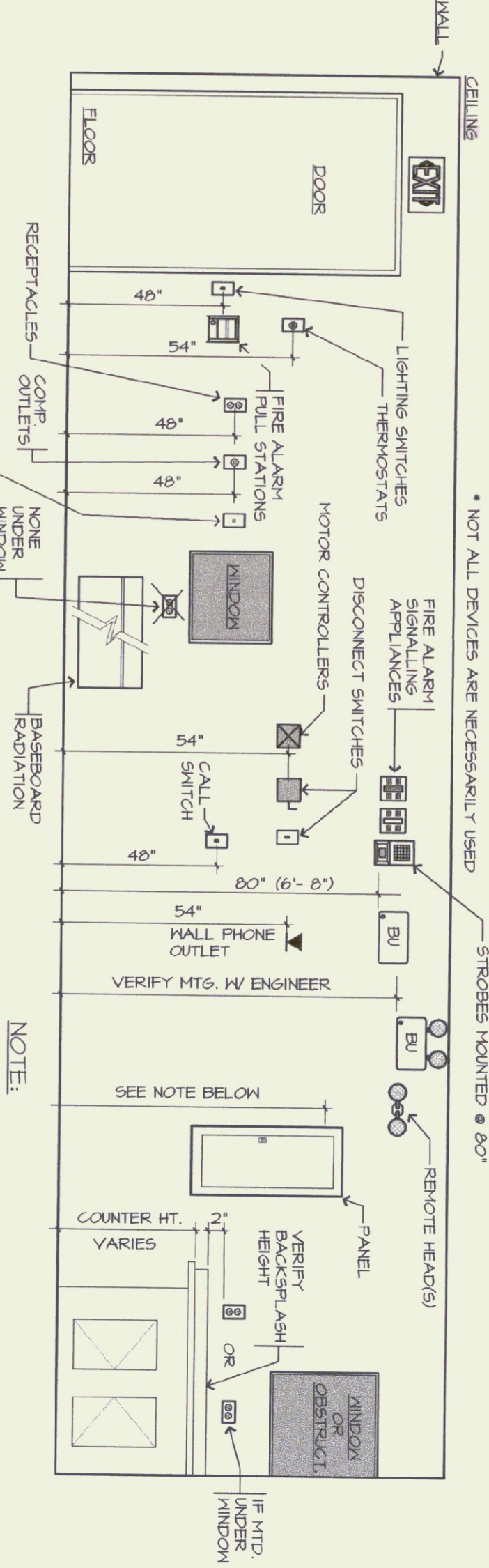


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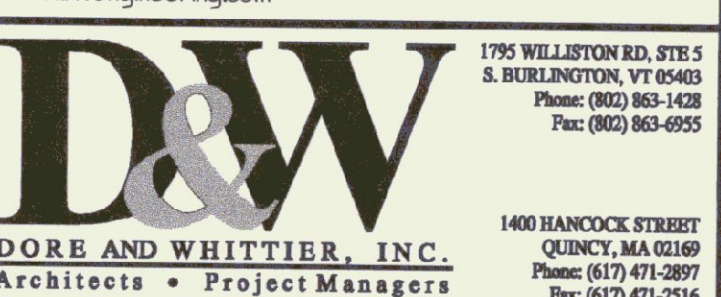
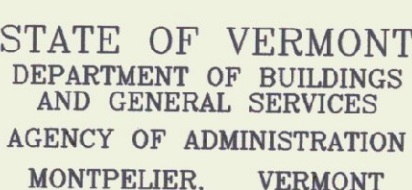
- LISTED EQUIPMENT NOTICE**
- ALL EQUIPMENT NEEDING ELECTRICAL POWER IS INTENDED AND SPECIFIED TO BE "UL" OR "CSA" LISTED AND LABELED. ELECTRICAL CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER OF ANY EQUIPMENT NOT SO LISTED AND LABELED AND SHALL NOT PROCEED WITH ANY WIRING OF SUCH EQUIPMENT UNTIL REPLACEMENT OF EQUIPMENT OR DIRECTED IN WRITING BY ENGINEER. TYPICAL OF ALL DEVICES AND EQUIPMENT ON THIS PROJECT.



- A. THE ABOVE MOUNTING HEIGHTS SHALL APPLY TO ALL DEVICES, UNLESS NOTED OTHERWISE ON THE PLANS. ALL NOTED DIMENSIONS ARE TO THE CENTRELINE OF THE DEVICE FROM THE FINISHED FLOOR.
- B. WHERE EXISTING OR SPECIAL CONDITIONS PREVENT THE INSTALLATION OF DEVICES AT THE ABOVE HEIGHTS, THE EC SHALL VERIFY HEIGHTS ON SITE WITH ARCHITECT. ABOVE COUNTDOWN DEVICES NOTED BY (4).
- C. ALL DEVICES IN FINISHED AREAS SHALL BE INSTALLED IN SPECIFIED BOXES.
- D. EC SHALL VERIFY FINAL WORKS/KEY COUNTDOWN CABINET OR VANITY HEIGHTS INCLUDING BACKLASH, ON SITE WITH GC PRIOR TO INSTALLATION OF BOXES.
- E. REFER TO M - SERIES DIV. 15) 4) ABOVE BASEBOARD RADIATION INSTALLATION TO M - SERIES DIV. 15) 3) RADIATION PLANT OUT.

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AGENCY OF TRANSPORTATION
HIGHGATE MAINTENANCE FACILITY
HIGHGATE VERMONT

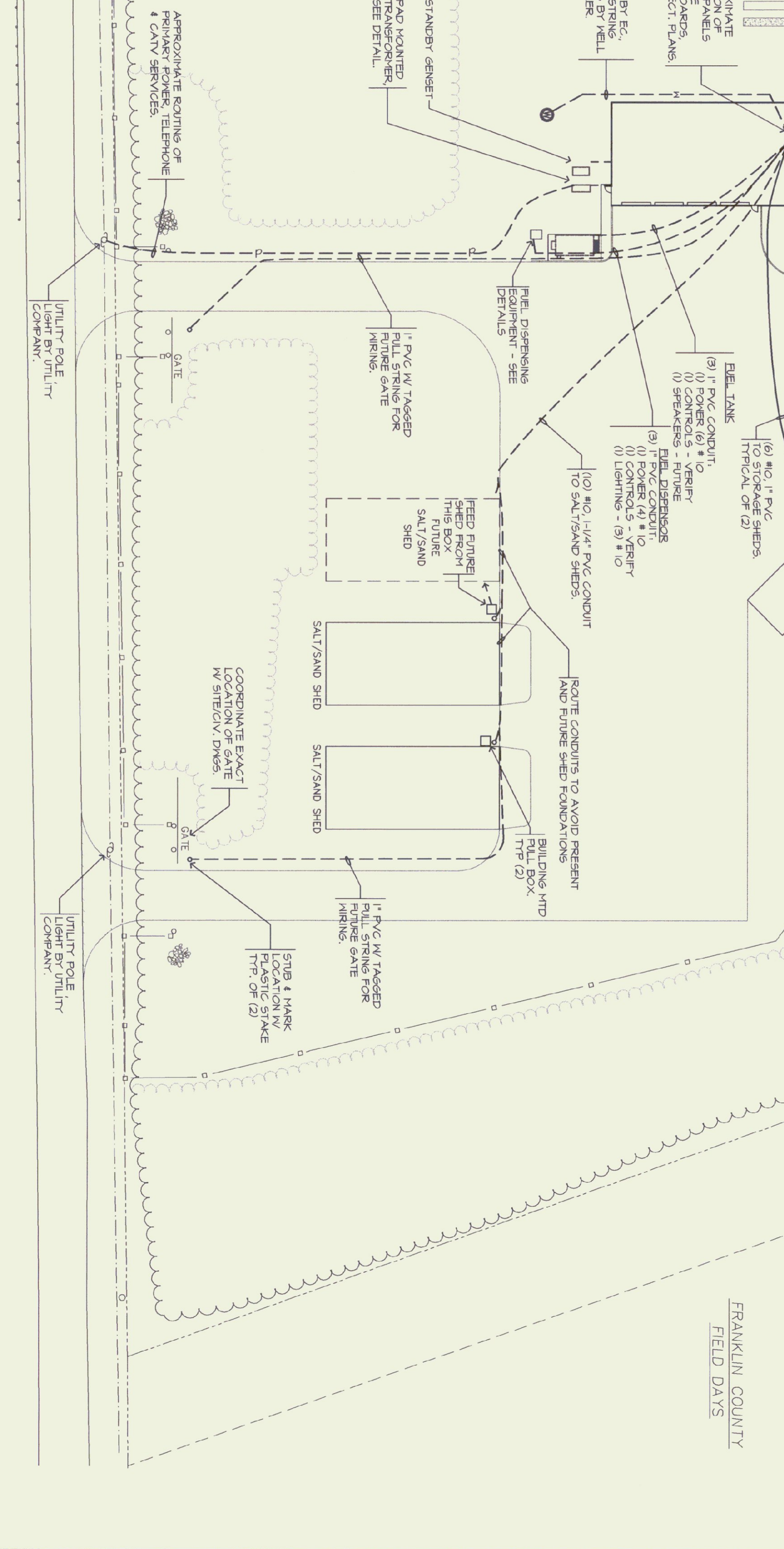
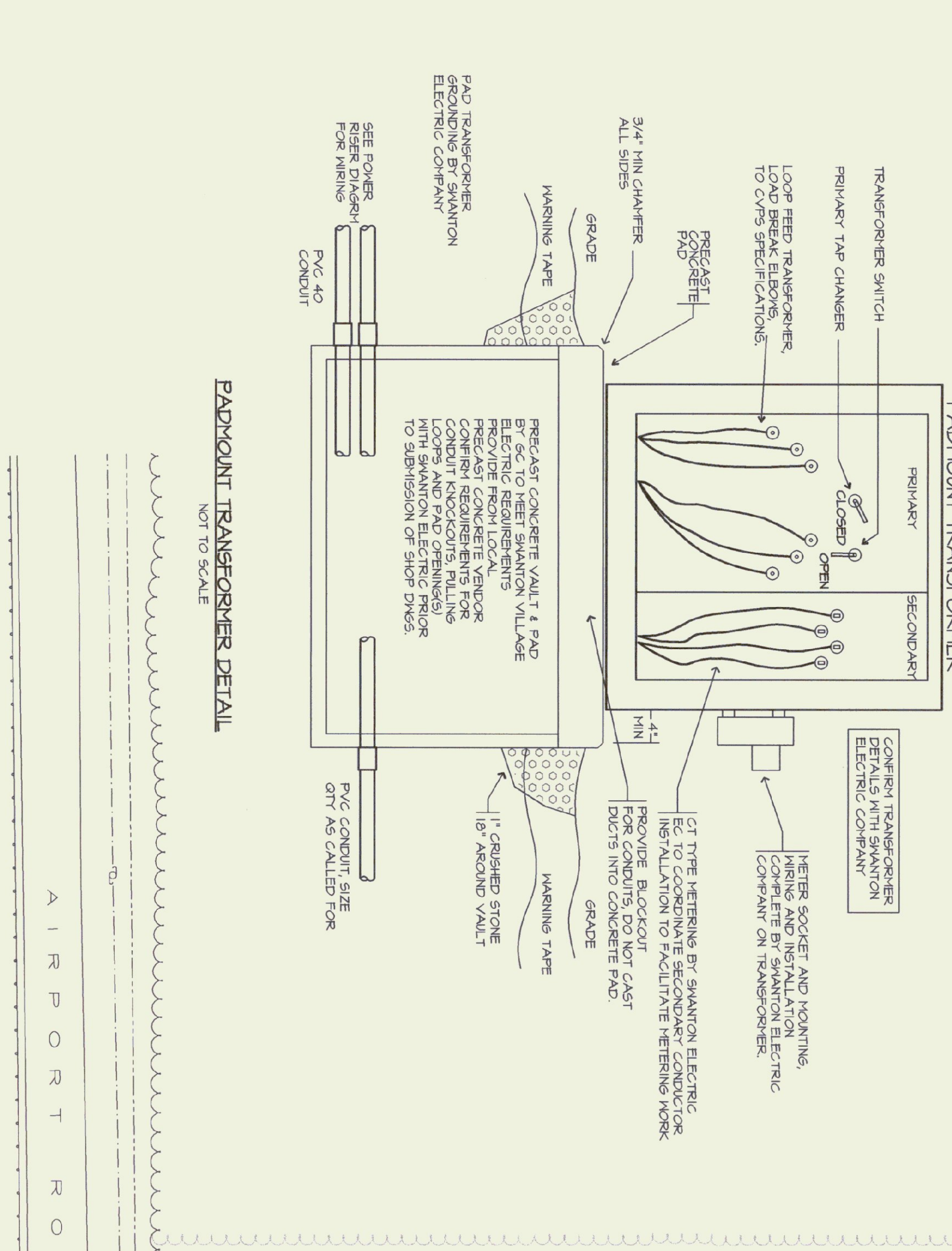
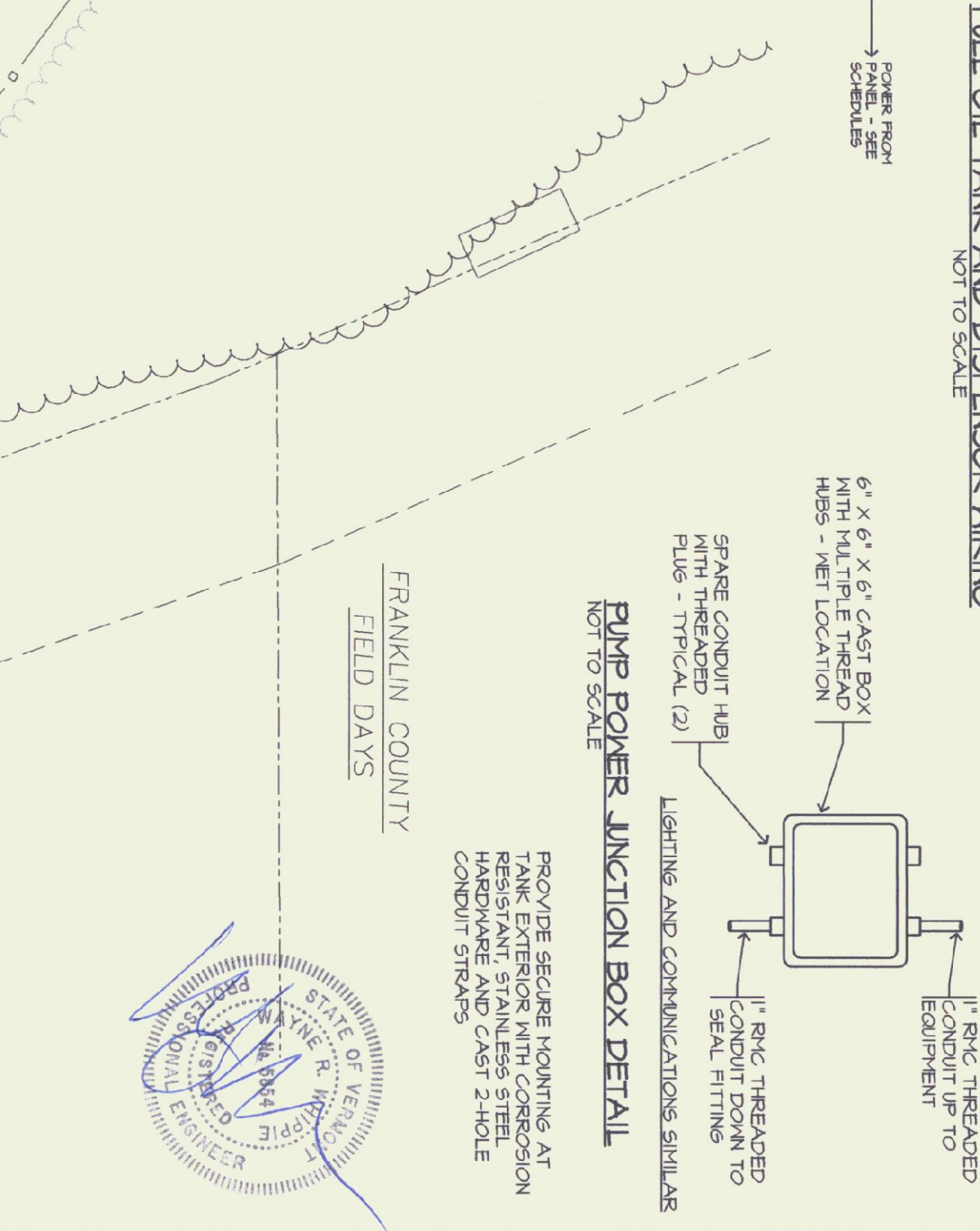
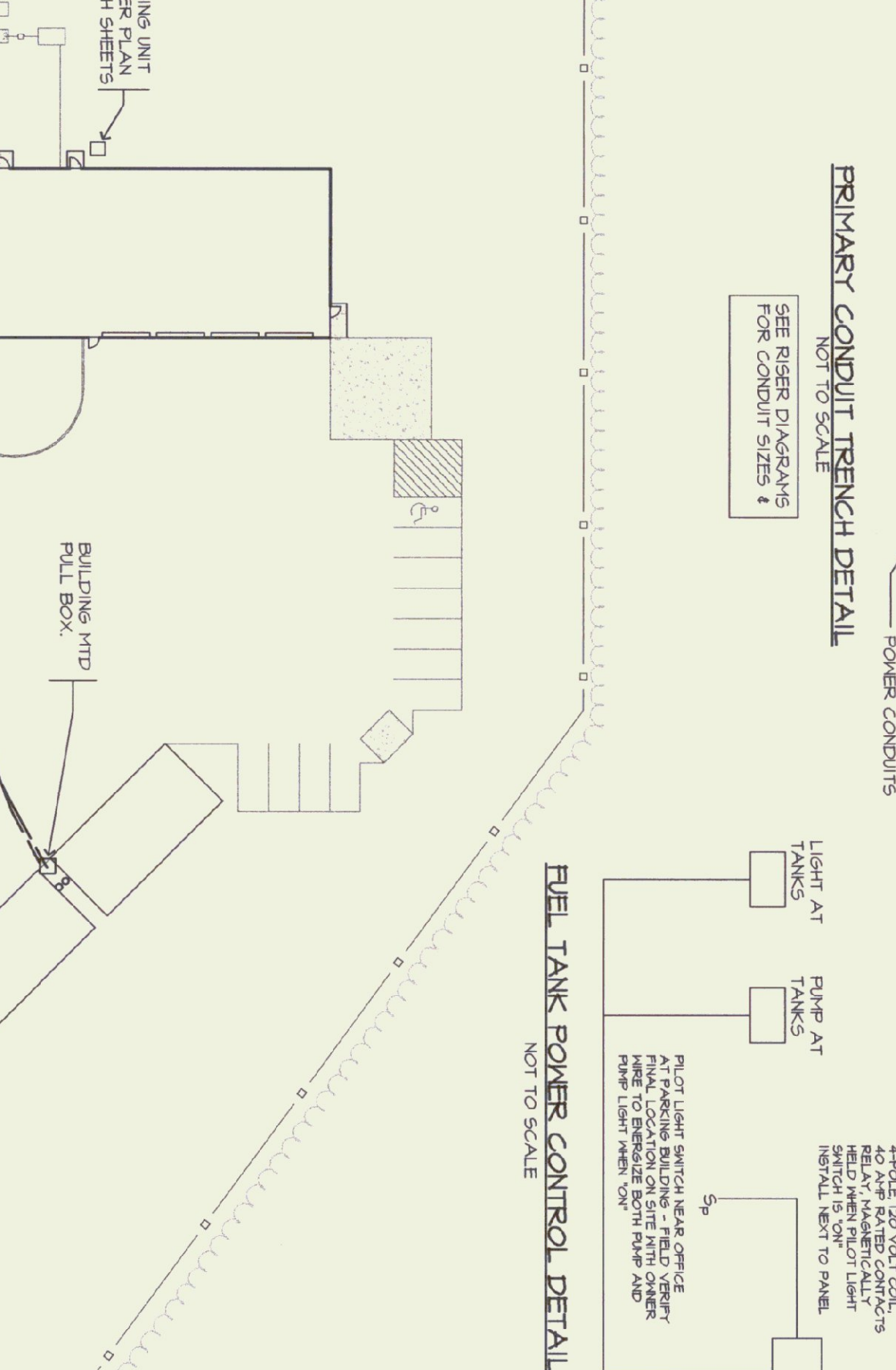
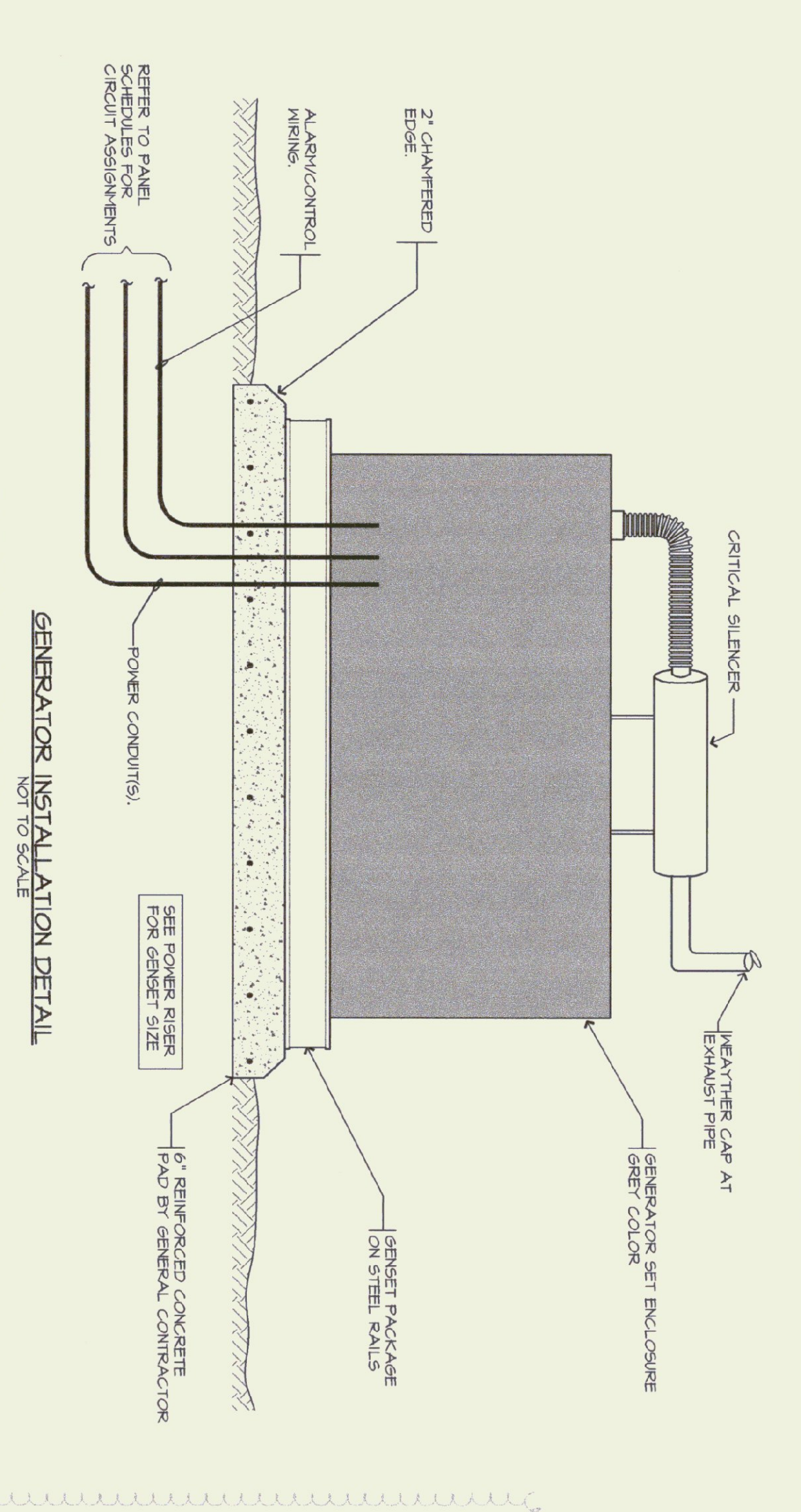
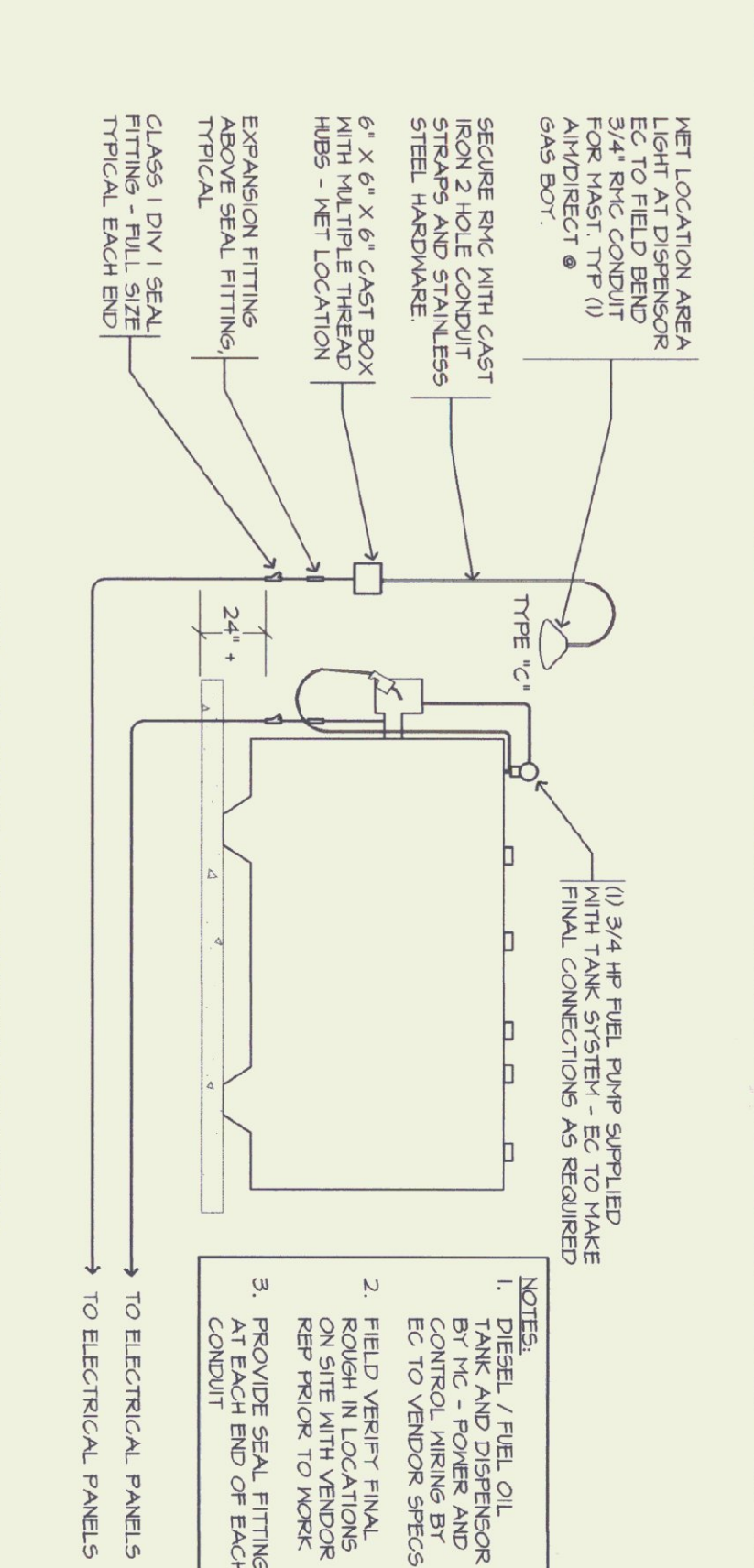
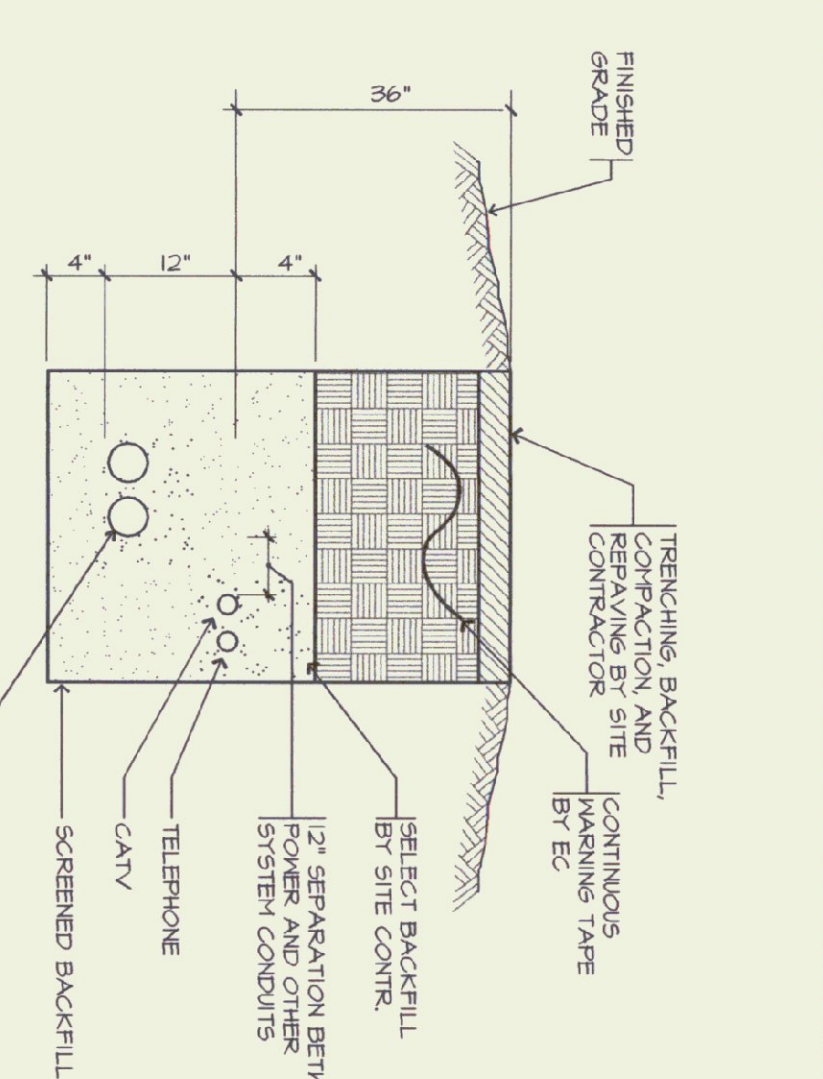
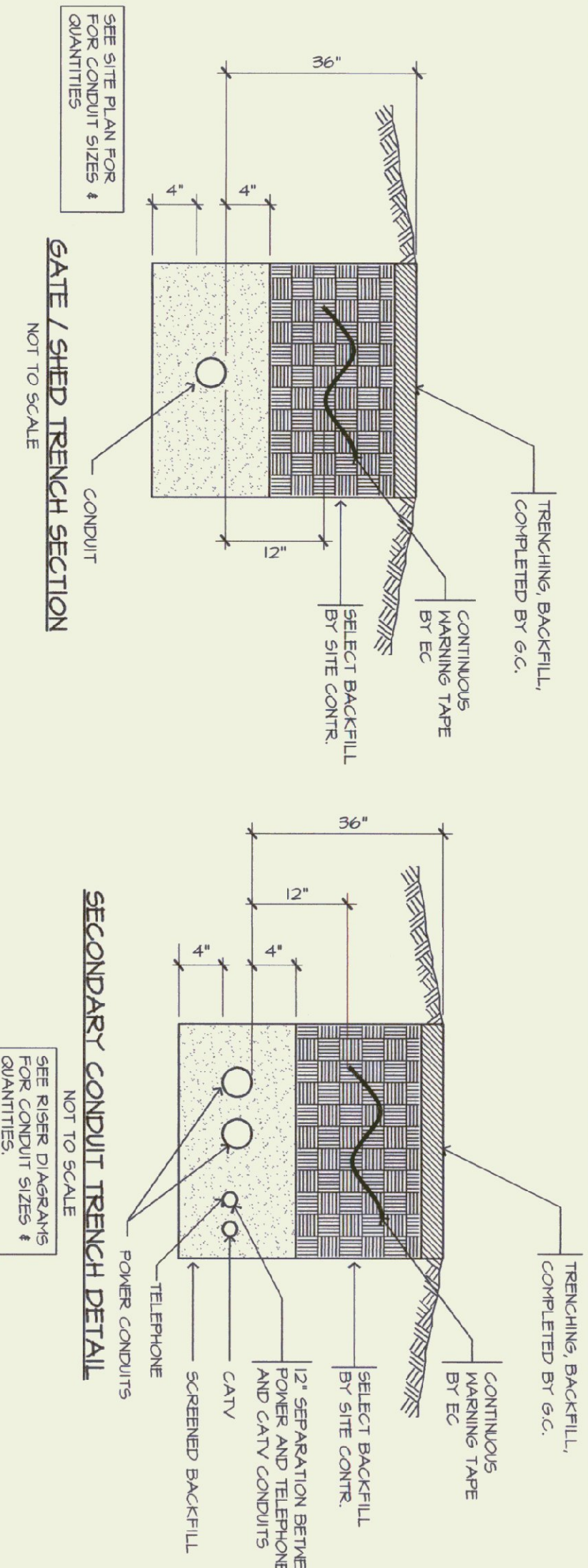


SCALE:	AS SHOWN	REVISIONS
DATE:	09/24/01	
DRAWN BY:	CTS	
APPR. BY:	WRW	

MAINTENANCE

MAINTENANCE
GARAGE

ELECTRICAL
LEGEND/DETAILS



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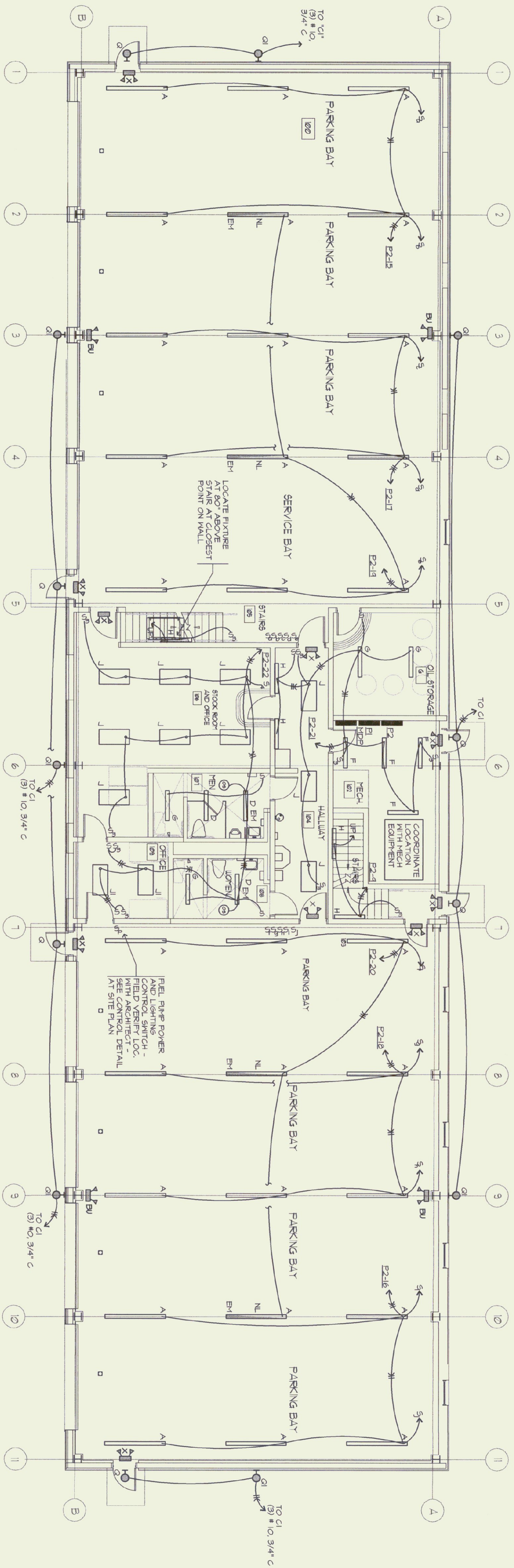
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DEPARTMENT OF BUILDINGS AND GENERAL SERVICES
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT

AGENCY OF TRANSPORTATION
HIGHGATE MAINTENANCE FACILITY
HIGHGATE VERMONT

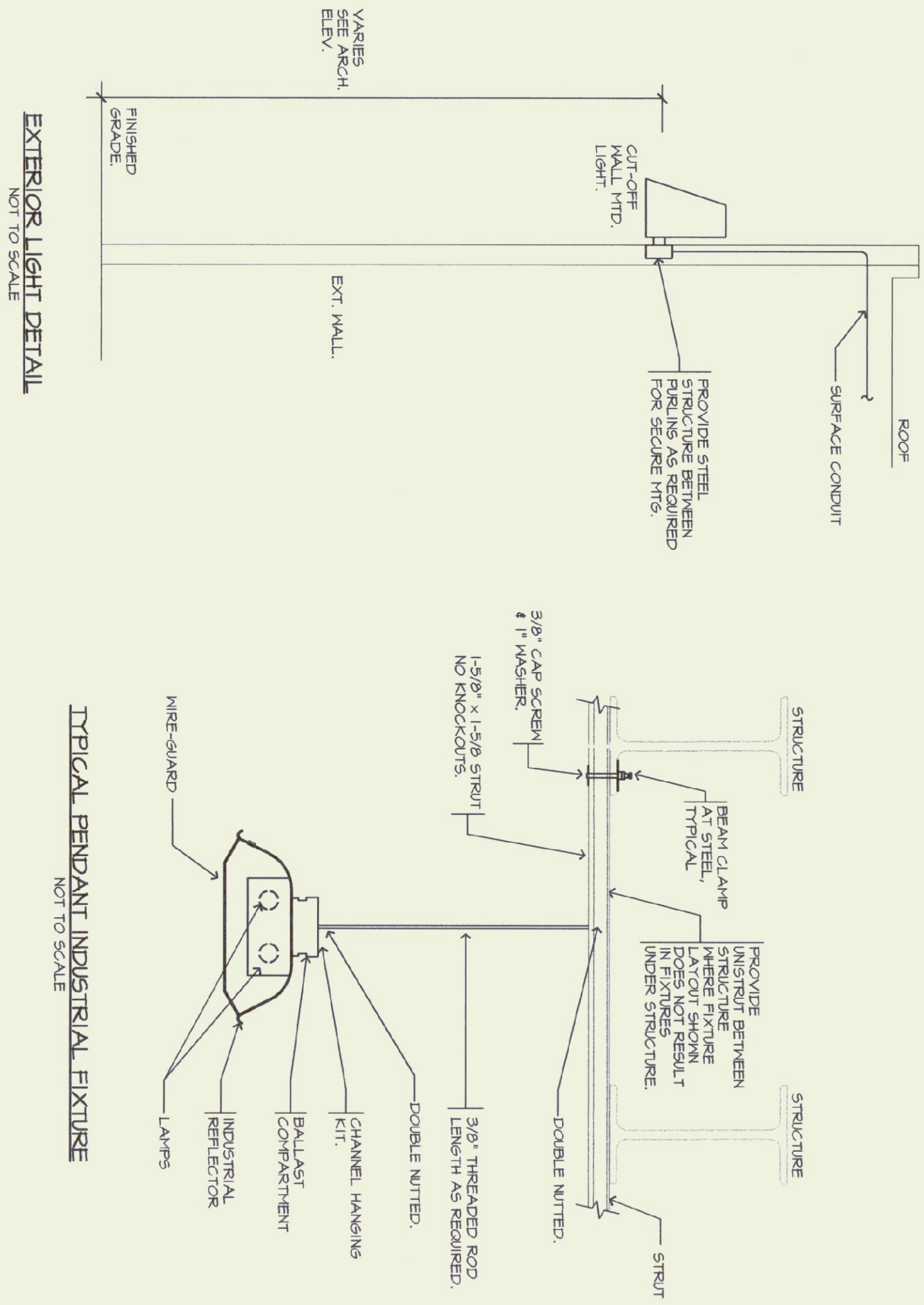
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MAINTENANCE GARAGE ELECTRICAL SITE PLAN

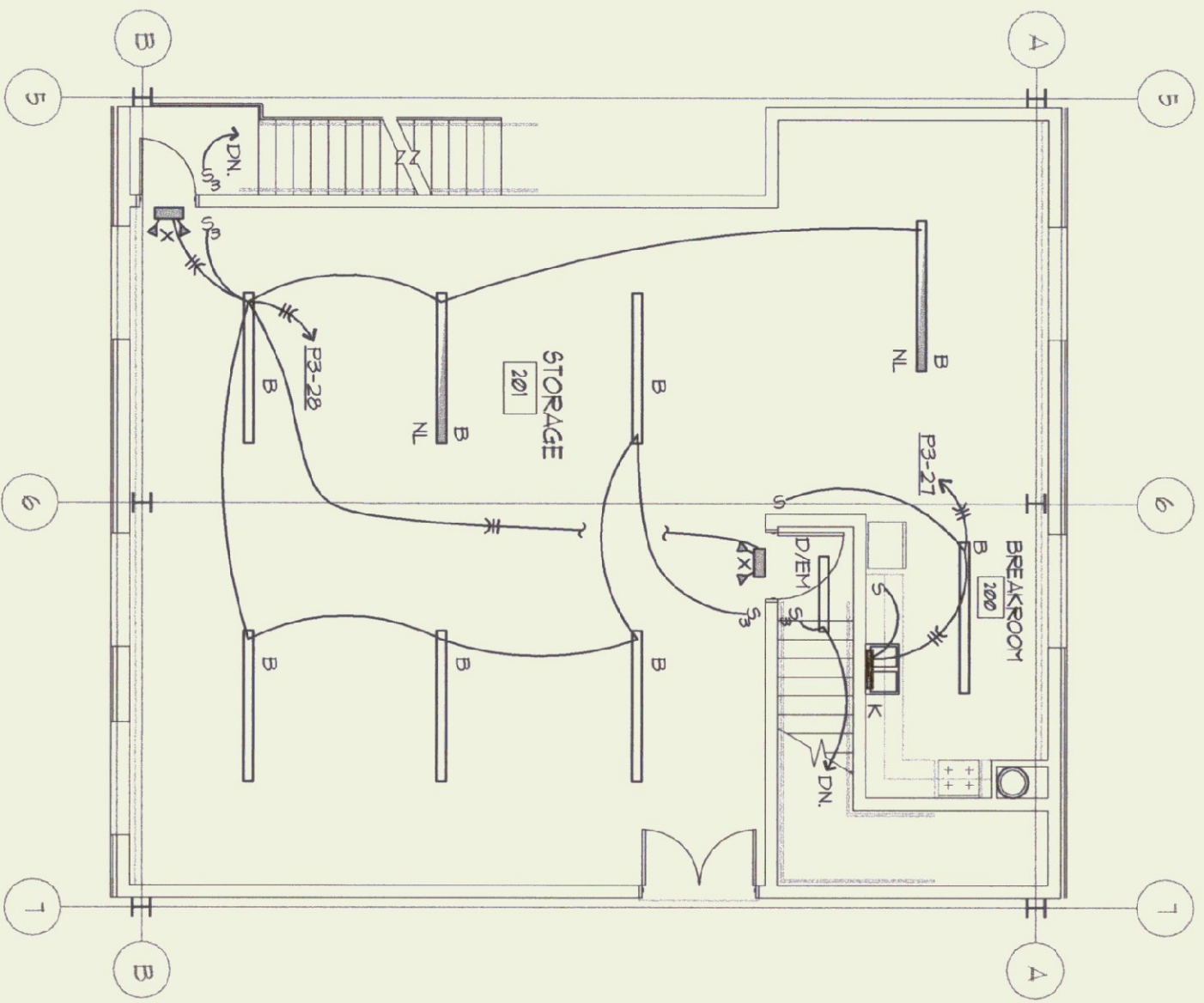


MAIN LEVEL LIGHTING PLAN
SCALE: 1/8"=1'-0"

WIRE COMBINATION EXIT SIGNS/ BATTERY UNITS TO LOCAL LIGHTING CIRCUITS AHEAD OF LOCAL OR CENTRAL SWITCHING.
WIRE BATTERY UNITS TO LOCAL LIGHTING CIRCUITS AHEAD OF LOCAL AND CENTRAL SWITCHING.

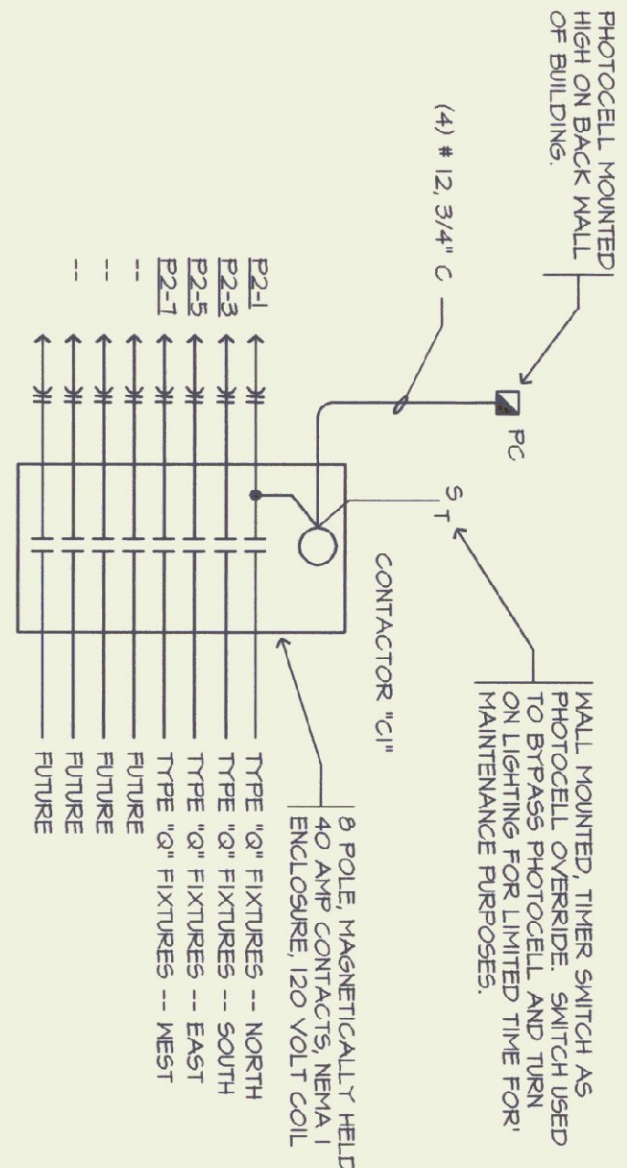


TYPICAL PENDANT INDUSTRIAL FIXTURE
NOT TO SCALE



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

EXTERIOR LIGHTING CONTROL DIAGRAM
NOT TO SCALE



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MONTPELIER, VERMONT



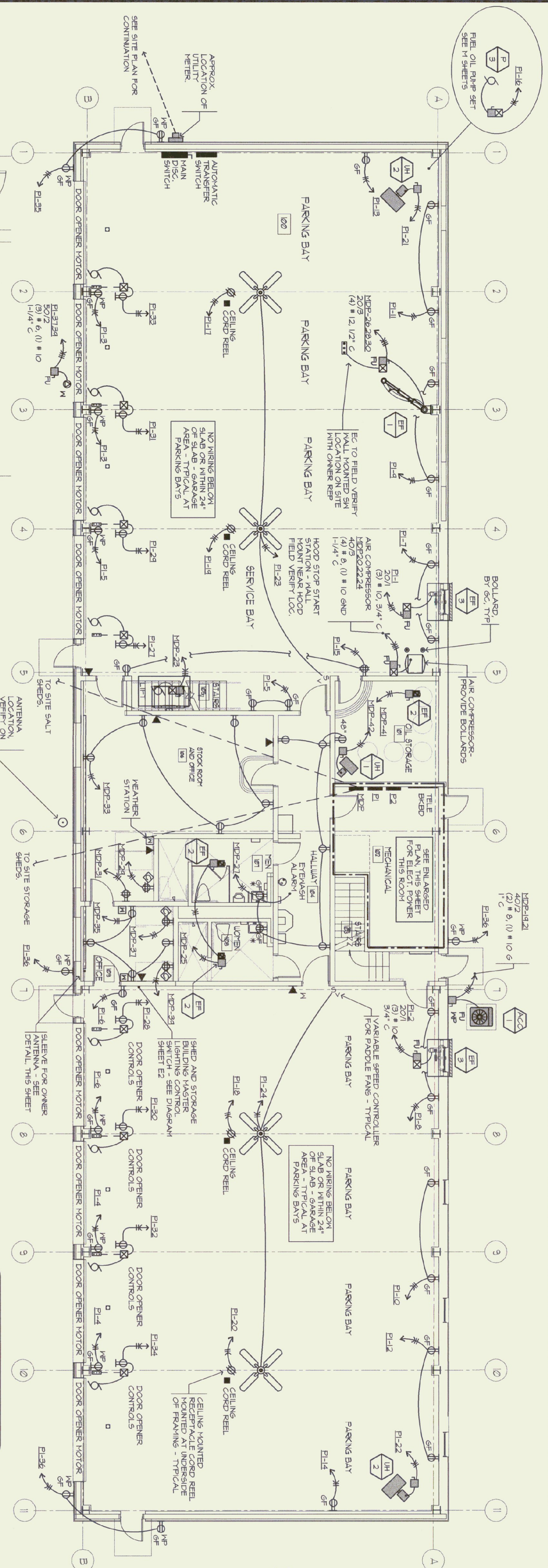
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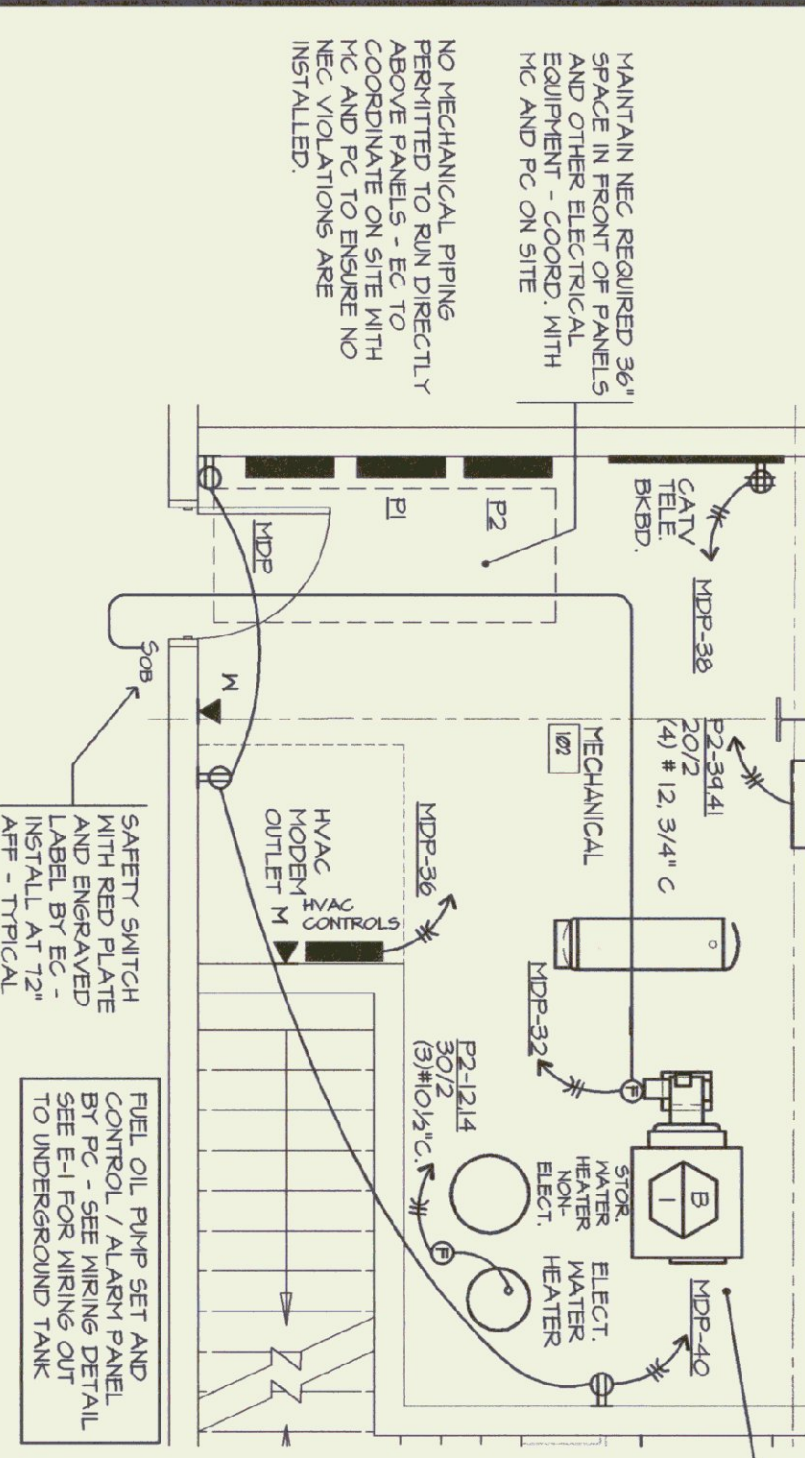
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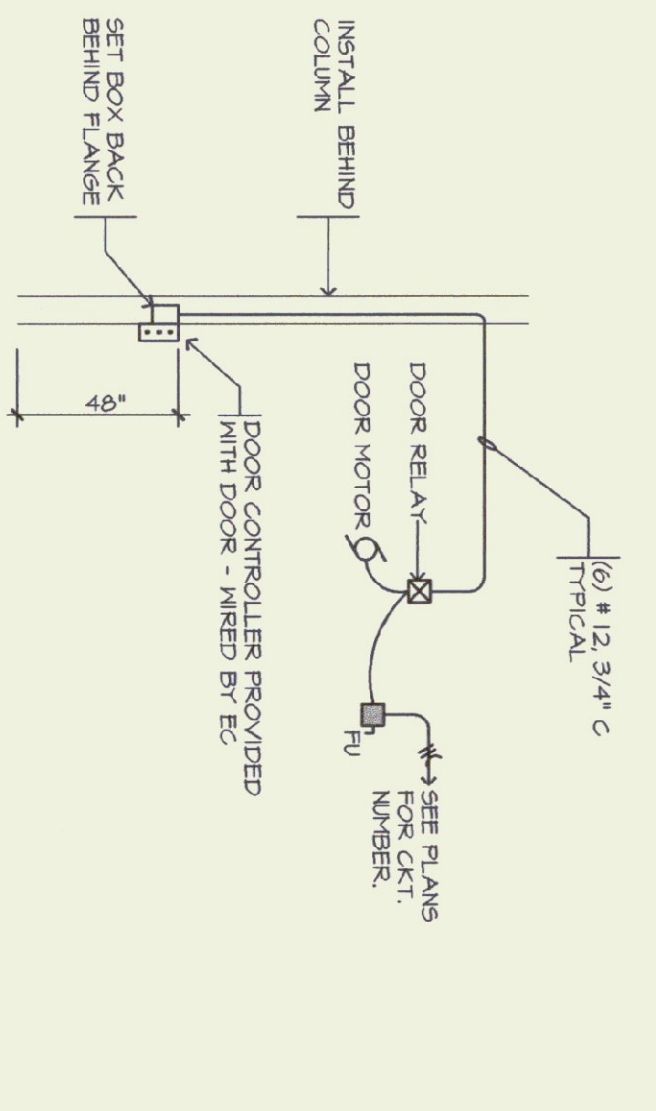
HIGHGATE
MAINTENANCE
GARAGE
ELECTRICAL
LIGHTING PLAN



MAIN LEVEL POWER PLAN
SCALE: 1/8"=1'-0"

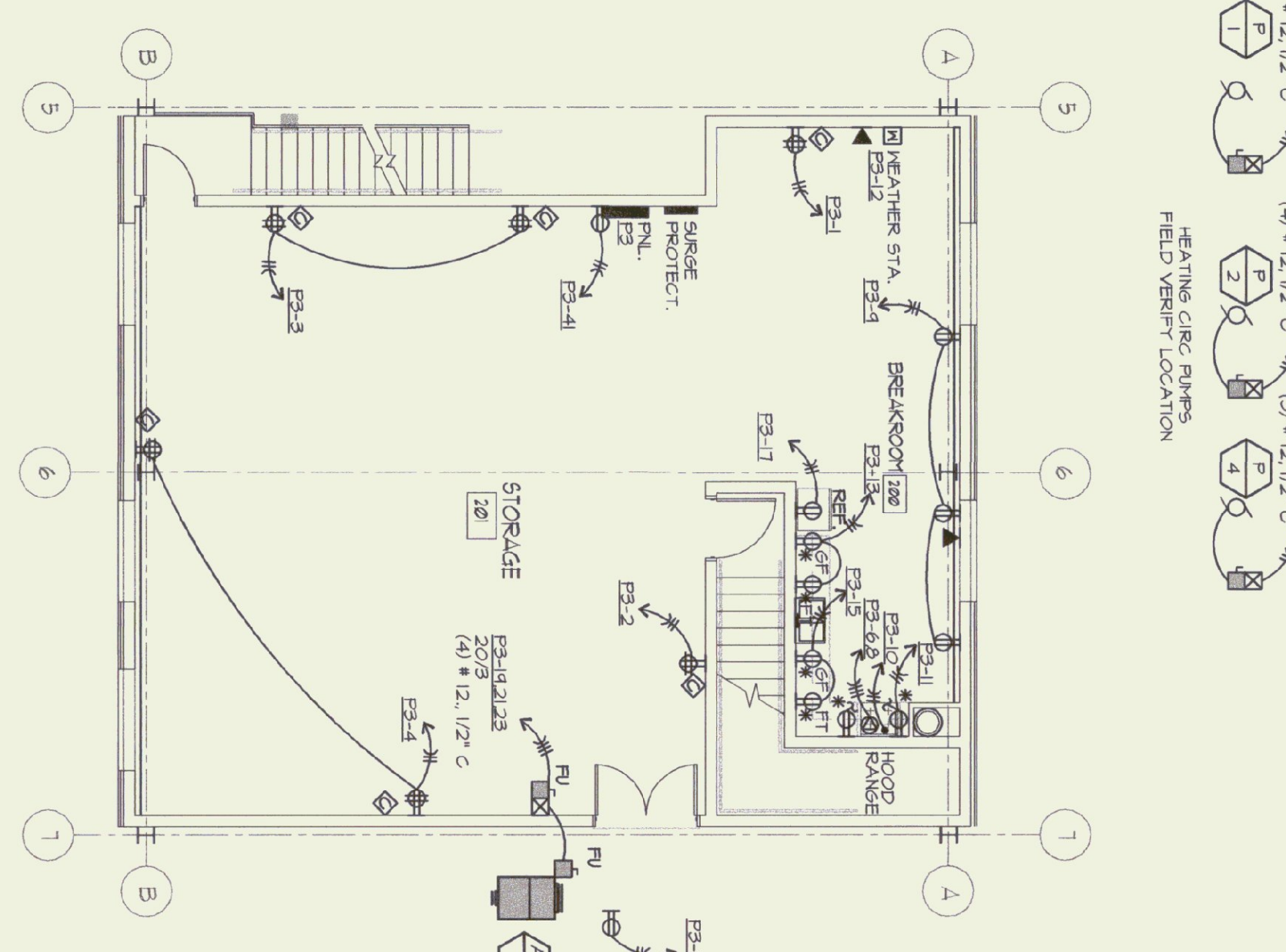


ENLARGED POWER PLAN • MECHANICAL 102
SCALE: 1/4"=1'-0"



OVERHEAD DOOR CONTROL DIAGRAM
NOT TO SCALE
TYPICAL OF (6)

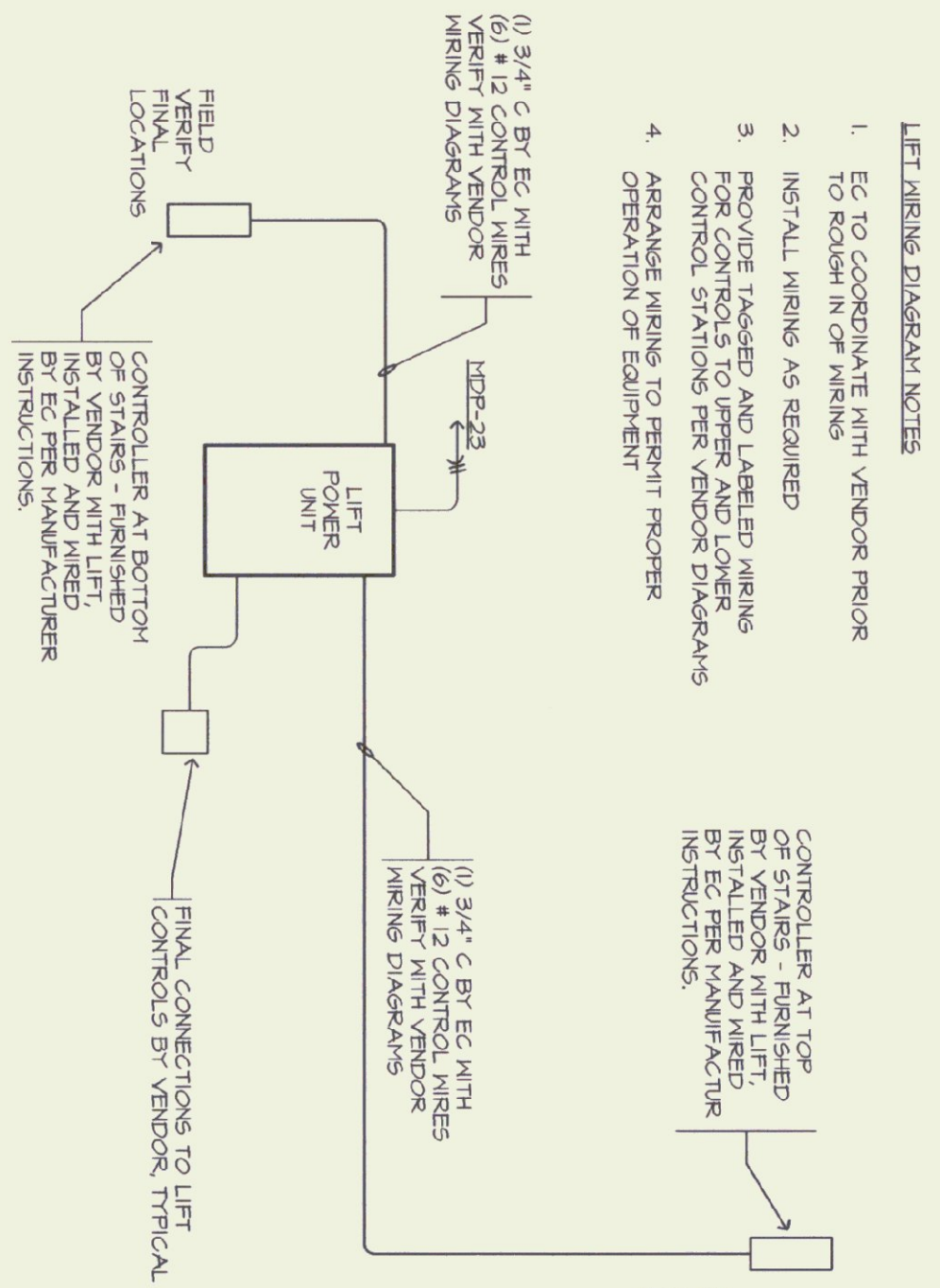
- NOTES
1. MOTORS PROVIDED WITH DOORS
 2. CONTROL STATIONS, STARTER, DOOR SAFETY SWITCH, FINISHED WITH DOORS, INSTALLED AND WIRED BY DIV. 16.
 3. FIELD VERIFY LOCATIONS
 4. ALL OPERATORS TO BE MOUNTED TO RIGHT OF DOOR WHEN VIEWED FROM INSIDE THE BUILDING



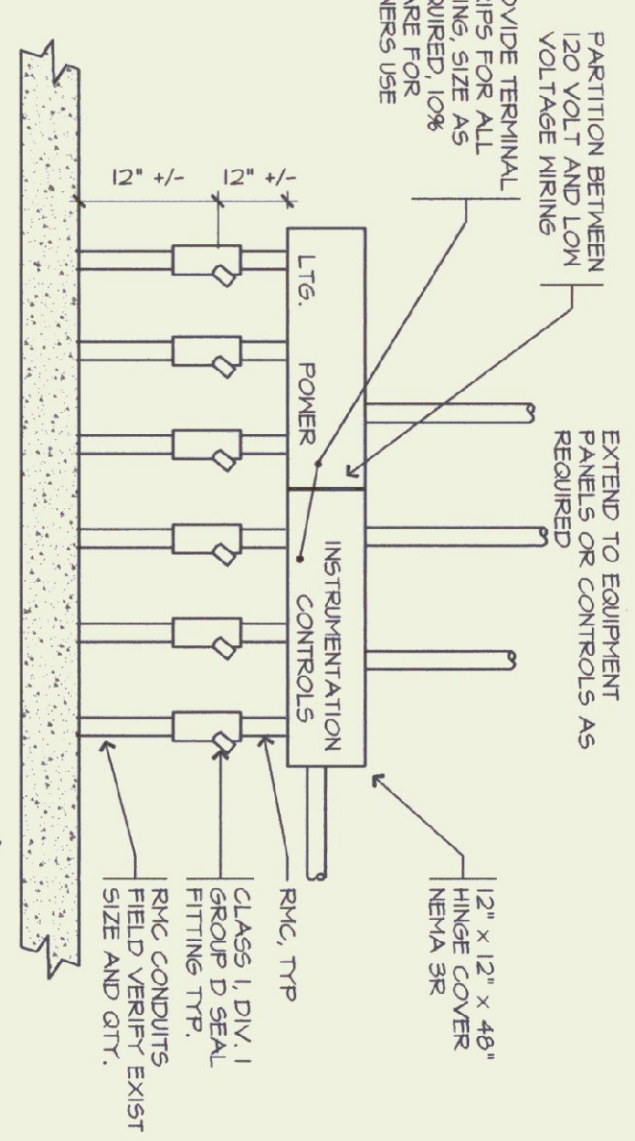
UPPER LEVEL POWER PLAN
SCALE: 1/8"=1'-0"

LET WIRING DIAGRAM NOTES

1. EC TO COORDINATE WITH VENDOR PRIOR TO ROUTING OF WIRING
2. INSTALL WIRING AS REQUIRED
3. PROVIDE TAGGED AND LABELED WIRING FOR CONTROLS TO UPPER AND LOWER CONTROL STATIONS PER VENDOR DIAGRAMS
4. ARRANGE WIRING TO PERMIT PROPER OPERATION OF EQUIPMENT



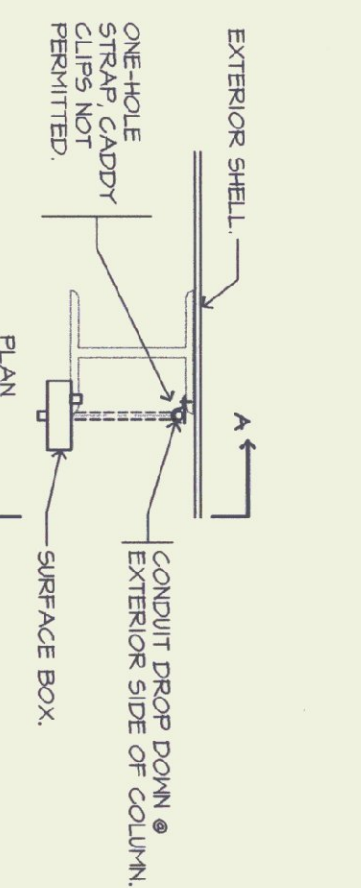
STAIR LIFT WIRING DIAGRAM
NOT TO SCALE



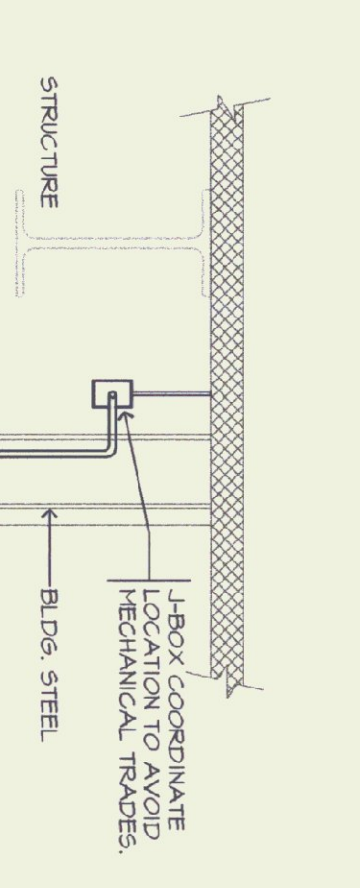
1. TYPICAL FOR DISPERSED LIGHTING, RAMP POWER, DISPENSOR CONTROLS, INTERCOM, VERIFY ON SITE
2. REFER TO PLANS FOR APPX LOCATIONS, & QUANTITY.

EQUIPMENT SEAL-OFF DETAIL
NOT TO SCALE

EYEWASH ALARM DETAIL
NOT TO SCALE

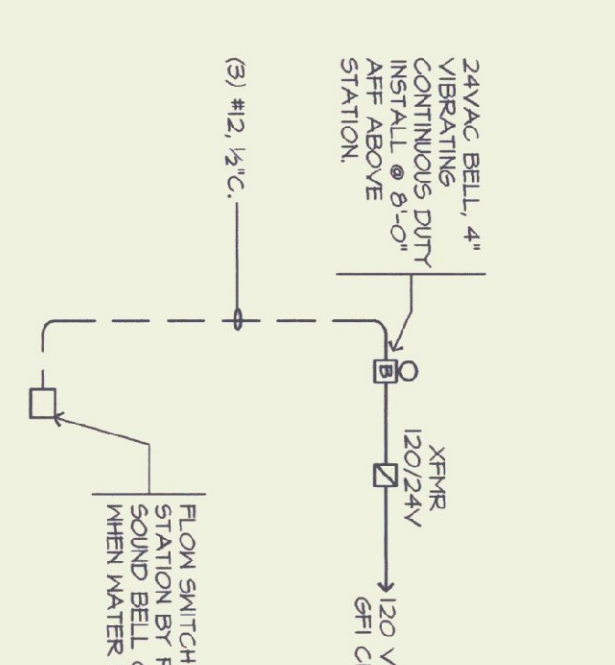


DETAIL AT EXTERIOR WALL COLUMNS
NOT TO SCALE



JBOX EXTERIOR WALL DETAIL
NOT TO SCALE

ANTENNA (FUTURE) MOUNTING DETAIL
NOT TO SCALE



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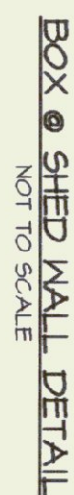
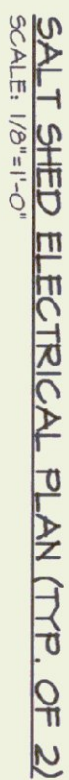
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HIGHGATE MAINTENANCE FACILITY
HIGHGATE VERMONT

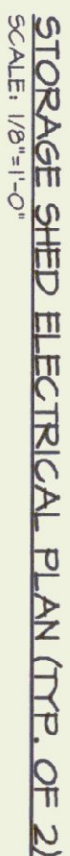
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DEPARTMENT OF BUILDINGS
AND GENERAL SERVICES
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT

REVISIONS		SCALE:	AS SHOWN
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		APPR. BY:	WRW
		HIGHGATE	
		MAINTENANCE	
		GARAGE	
		ELECTRICAL	
		POWER PLANS	

1. WIRING WITHIN STORAGE SHAED TO BE SCHEDULE 80
2. BOXES TO INCLUDE GULDED RIBS AND MOUNTING EARS
3. WIRING TO BE DAMP LOCATION RATED.
4. FIELD VERIFY ALL FINAL LOCATIONS ON SITE WITH OWNER REPRESENTATIVE.
5. CONDUIT IN BOXES TO BE INSTALLED IN BETWEEN WOOD STUDS.



1. WIRING WITHIN STORAGE SHED TO BE RAC CONDUIT WITH THREADED FITTINGS.
2. BOXES TO INCLUDE THREADED NIBS AND MOUNTINGS EASES
3. WIRING TO BE DAMP LOCATION RATED
4. FIELD VERIFY ALL FINAL LOCATIONS ON SITE WITH OWNER REPRESENTATIVE.
5. CONDUIT IN BOXES TO BE INSTALLED IN BETWEEN WOOD STUDS.



- MAINTENANCE
GARAGE
ELECTRICAL
SHED PLANS

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AGENCY OF TRANSPORTATION
HIGHGATE MAINTENANCE FACILITY
HIGHGATE VERMONT



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MONTPELIER, VERMONT



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