





**GENERAL NOTES:**

1. ALL CONTRACTORS MUST MAKE ON SITE VISITATIONS TO PROJECT SITE PRIOR TO BIDDING TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF CONSTRUCTION.
2. DISCREPANCIES: THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS OR OF ANY VARIATIONS NEEDED IN ORDER TO CONFORM TO CODES, RULES AND REGULATIONS. UPON RECEIPT OF SUCH INFORMATION, THE ARCHITECT WILL SET DISCREPANCY, OMISSION, OR VARIATION WORK REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WORK SHALL BE PERFORMED IN A MANNER DIRECTED BY THE ARCHITECT.
3. EXISTING CONDITIONS: ALL EXISTING INFORMATION WAS TAKEN FROM DRAWINGS FURNISHED BY OTHERS WHICH MAY OR MAY NOT BE CORRECT. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE JOB SITE. ANY DISCREPANCIES OR VARIATIONS FROM THE CONDITIONS SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES WHOSE LOCATION IS IN CONTACT WITH THE AREA OF CONSTRUCTION. HE SHALL PROPERLY BARRICADE THE AREA TO PREVENT INTRUSION BY PERSONS NOT ASSOCIATED WITH CONSTRUCTION.
5. DRAWING SCALES: THESE DRAWINGS ARE PREPARED TO THE SCALES NOTED. HOWEVER, DIMENSIONS ARE NOT TO BE DERIVED BY SCALING THE PLANS, SECTIONS OR DETAILS. IF THERE IS ANY QUESTION ABOUT DETAILS OR DIMENSIONS, CONTACT THE ARCHITECT FOR INFORMATION PRIOR TO STARTING WORK.
6. ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AND TRADES TO COORDINATE THE INSTALLATION OF THEIR CONTRACTORS AND TRADES WITH THE WORK OF OTHER CONTRACTORS AND TRADES.
7. THE REQUIREMENTS OF THE DRAWINGS, GENERAL REQUIREMENTS AND SPECIFICATIONS OF THE CONTRACT DOCUMENTS ARE EQUALLY BINDING ON ALL CONTRACTORS AND TRADES. EACH CONTRACTOR IS REQUIRED TO MAINTAIN FULL SETS OF THE CONTRACT DOCUMENTS FOR HIS EMPLOYEES. USE ON THE PROJECT TO ASSURE THAT ALL WORK IS PROPERLY AND ACCORDING TO THE REQUIREMENTS OF THE DRAWINGS AND TRADES AND COORDINATE WITH THE WORK OF OTHER CONTRACTORS AND TRADES.
8. CONTRACTOR SHALL MEET WITH THE ARCHITECT PRIOR TO THE START OF WORK TO REVIEW ALL EXISTING CONDITIONS AND THE EXACT EXTENT OF THE WORK TO BE COMPLETED.
9. ALL WORK SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA STATE BUILDING CODE AND ALL OTHER LOCAL CODES AND REGULATIONS HAVING JURISDICTION.
10. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING CONSTRUCTION AROUND THE SITE WHICH WILL REMAIN. ANY DAMAGES SHALL BE REPAIRED TO THE OWNER'S SATISFACTION.
11. SLOPE ALL EXTERIOR LANDINGS, WALKS, PORCHES, STEPS, ETC. TO DRAIN AWAY FROM BUILDINGS FOR DRAINAGE UNLESS NOTED OTHERWISE.
12. FRAMING LUMBER IN CONTACT WITH MASONRY, CONCRETE, OR STEEL SHALL BE PRESSURE TREATED.
13. GENERAL CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS LOOSE STEEL UNITS AS REQUIRED WHERE MECH., PLUMBING, OR ELECTRICAL EQUIPMENT IS TO BE BUILT INTO MASONRY WALLS OR OTHER ITEMS IN MASONRY WALLS.
14. SLOPE FLOOR TO FLOOR DRAINS. COORDINATE ALL FLOOR DRAINS WITH PLUMBING CONTRACTOR.
15. PROVIDE WEEP HOLES @ 16" O.C. OVER ALL MASONRY OPENINGS.
16. PROVIDE FIRE TREATED LUMBER AS REQUIRED BY THE BUILDING CODE.
17. FIRE PENETRATION NOTES APPLY TO ALL TRADES
18. DO NOT CUT ANY LAY-IN ACOUSTICAL CEILING PANELS UNLESS THEY ARE TO BE REMOVED TO BE REPAIRED AND SPACED IN AREA.
19. FIELD VERIFY ALL DIMENSIONS

**GENERAL NOTES:**

- FIRESMOKING AND FIRE/SMOKE STOPPING**
- 1) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND PROPERLY INSTALLING ALL FIRING, FIRE/SMOKE STOPPING AT ALL PENETRATIONS OR OPENINGS BETWEEN FLOORS AT INTERSECTIONS OF RATED AND NON-RATED WALLS AND STRUCTURAL ELEMENTS AT ALL PENETRATIONS OR OPENINGS THROUGH RATED AND NON-RATED WALLS AND AT ALL OTHER AREAS WHERE PENETRATIONS AND OPENINGS ARE MADE THROUGH RATED WALLS. PENETRATIONS SHALL BE MADE THROUGH THE PENETRATION COMPARTMENT FOR FLOOR PENETRATIONS, WALL PENETRATIONS, AND PERIMETER WALL TO FLOOR PROTECTION OR OPENINGS.

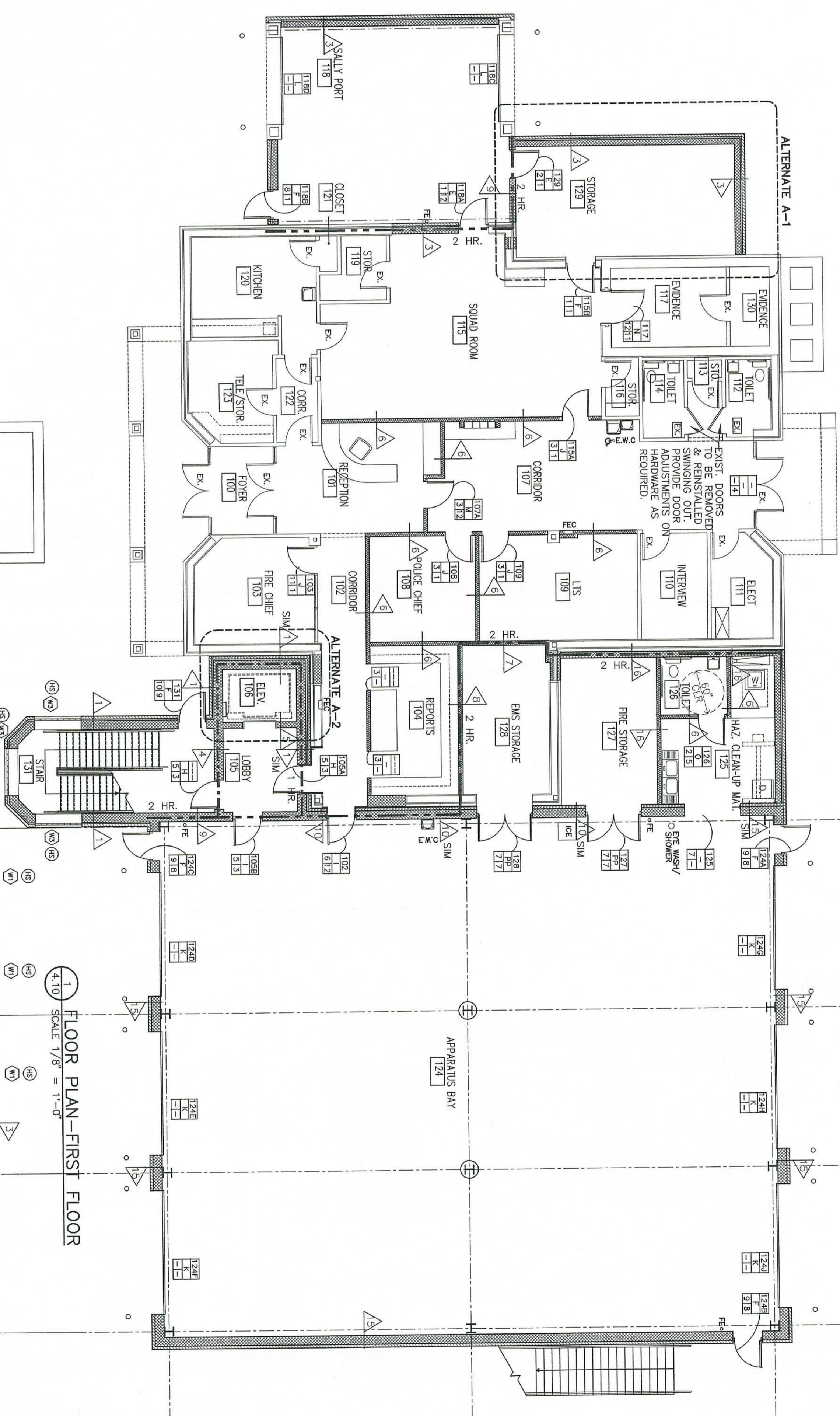
- INSULATION NOTES**
- 1) PROVIDE 3" SOUND ATTENUATION BLANKETS ABOVE ALL THE CEILINGS & SURROUNDING WALLS.

**RATED & NON-RATED WALL TYPE SCHEDULE**

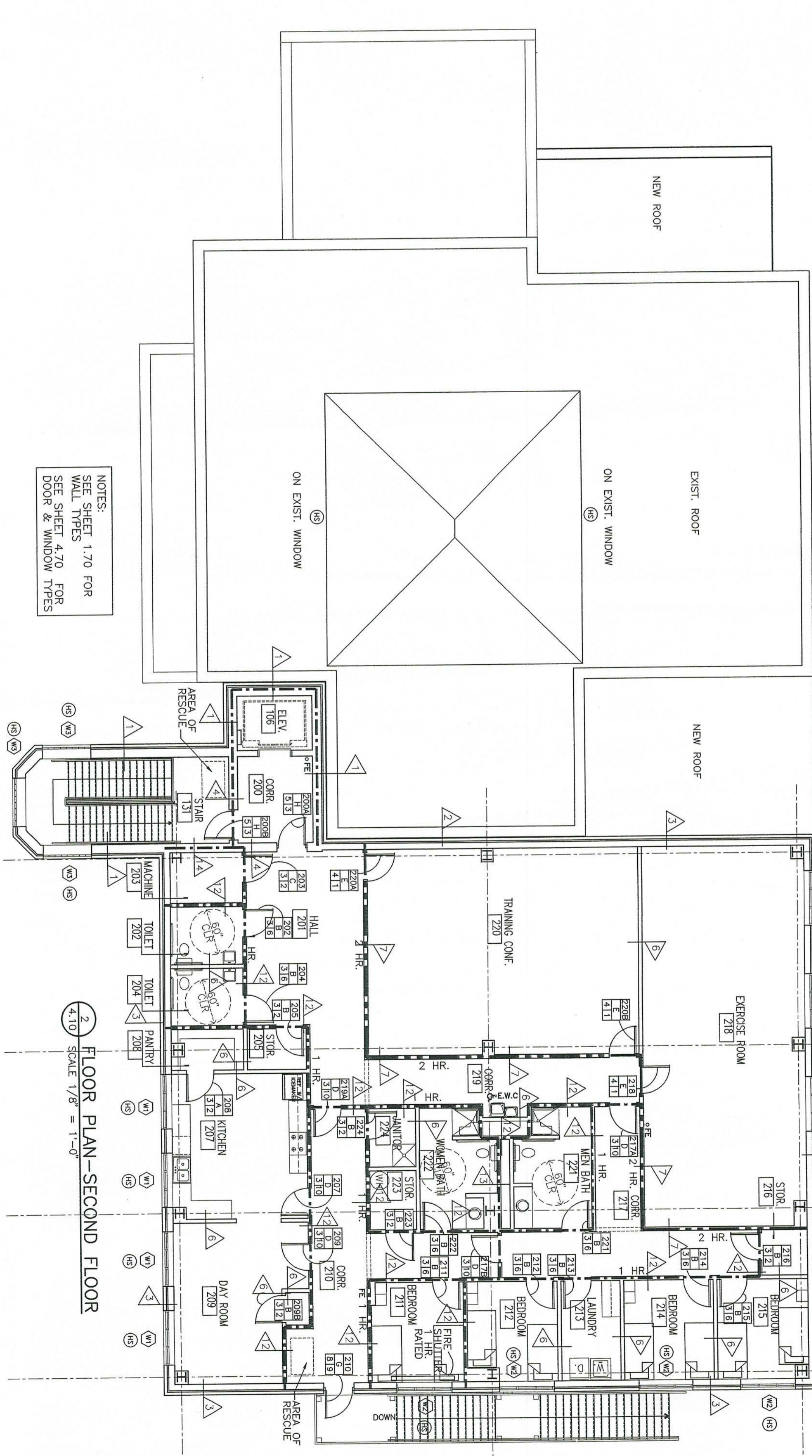
**GENERAL NOTES:**

1. FIRESTOP AROUND ALL PIPE, CONDUIT, DUCTWORK AND ANY OTHER PENETRATIONS THROUGH RATED AND NON RATED WALLS.
2. ALL FIRE RATED PARTITIONS MUST BE STENCILED WITH RED SPRAY PAINT IN THE CONCEALED SPACE ABOVE THE CEILING WITH THE WORDS: "FIRE AND SMOKE BARRIER AS REQUIRED BY THE NORTH CAROLINA BUILDING CODE STENCILING SHALL BE APPLIED AT 20"-0" O.C. STAGGER THE STENCILING ON OPPOSITE CORNER WALLS
3. PROVIDE 2x8 MIN. WOOD BLOCKING SECURELY ANCHORED IN ALL WALLS BEHIND ALL TOILET ACCESSORIES, BATH FIXTURES, WALL CABINETS, VISUAL DISPLAY DEVICES AND PROVIDE WOOD FRAMING SECURELY ANCHORED TO WALL FRAMING TO PROVIDE ANCHORING SURFACE FOR ITEMS RECESSED IN WALLS.

WALL SYMBOL	WALL RATING	WALL HEIGHT	COMMENTS
---	1 - HOUR	TO DECK	SEE SHEET 1.71 FOR UL ASSEMBLIES
----	2 - HOUR	TO DECK	SEE SHEET 1.71 FOR UL ASSEMBLIES
----	NON-RATED		



1.10 FLOOR PLAN—FIRST FLOOR  
SCALE 1/8" = 1'-0"

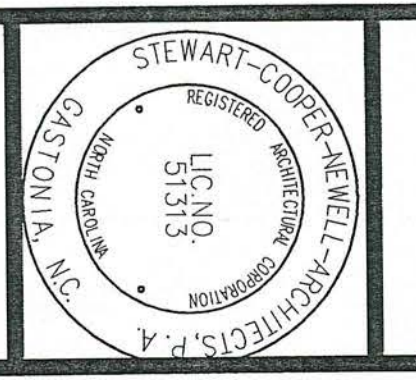


2.10 FLOOR PLAN—SECOND FLOOR  
SCALE 1/8" = 1'-0"

NOTES:  
SEE SHEET 1.70 FOR WALL TYPES  
SEE SHEET 4.70 FOR DOOR & WINDOW TYPES

Project No.  
**999**

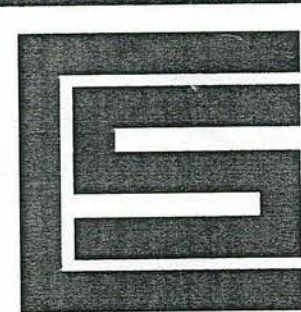
Date  
8-01-02  
Drawn  
APS  
Checked  
JHS  
Revisions



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columbia, sc 29201  
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fax: 803.765.2011

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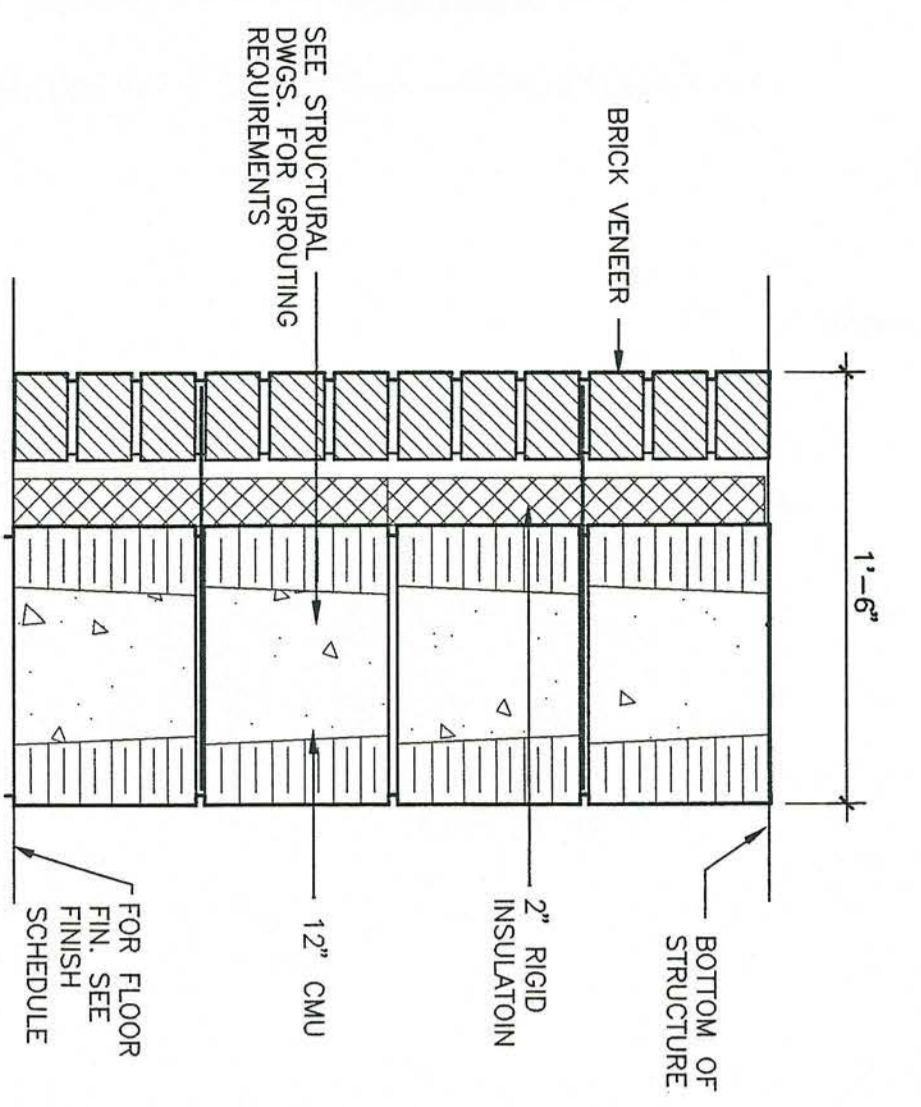


**RENOVATIONS AND ADDITIONS FOR THE NEW PUBLIC SAFETY BUILDING**

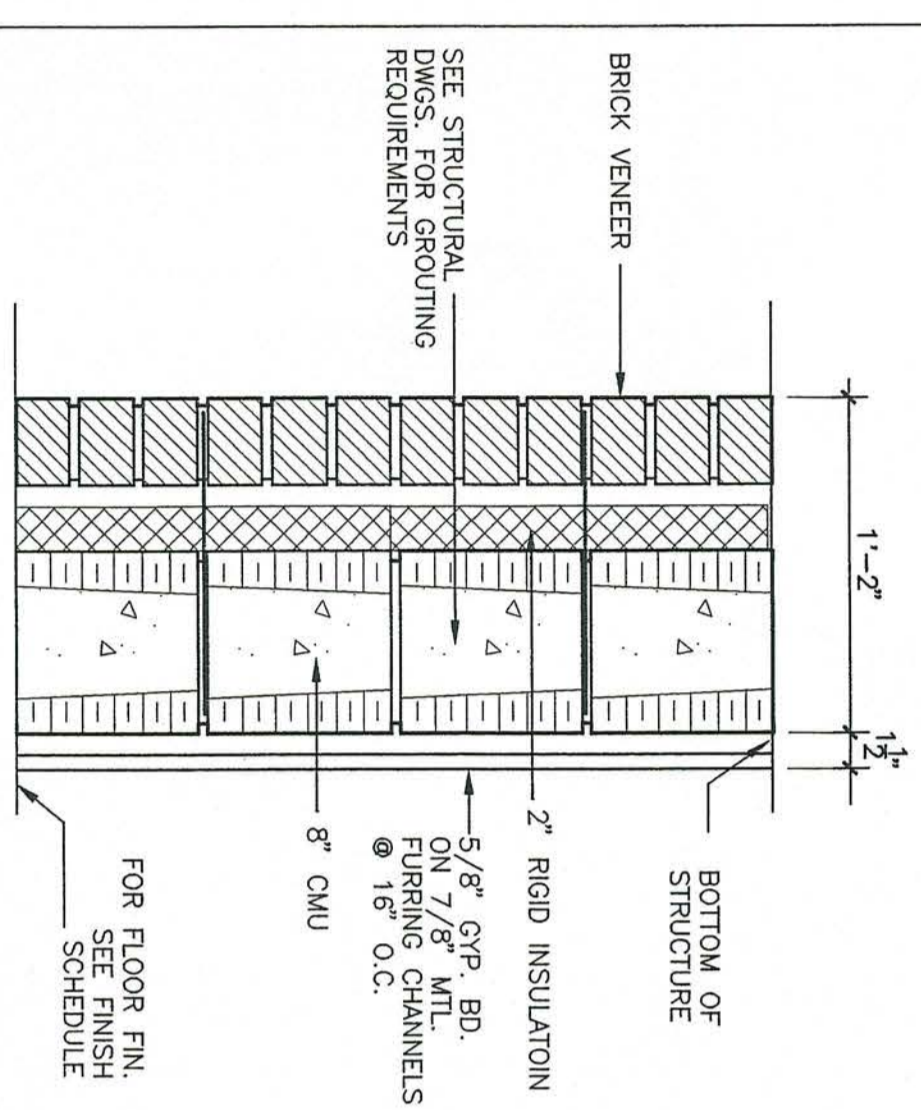
Pine Knoll Shores, North Carolina  
WALL TYPES, DOORS NUMBERS  
WINDOW NUMBERS, FIRE PROTECTION PLAN

sheet  
**120**

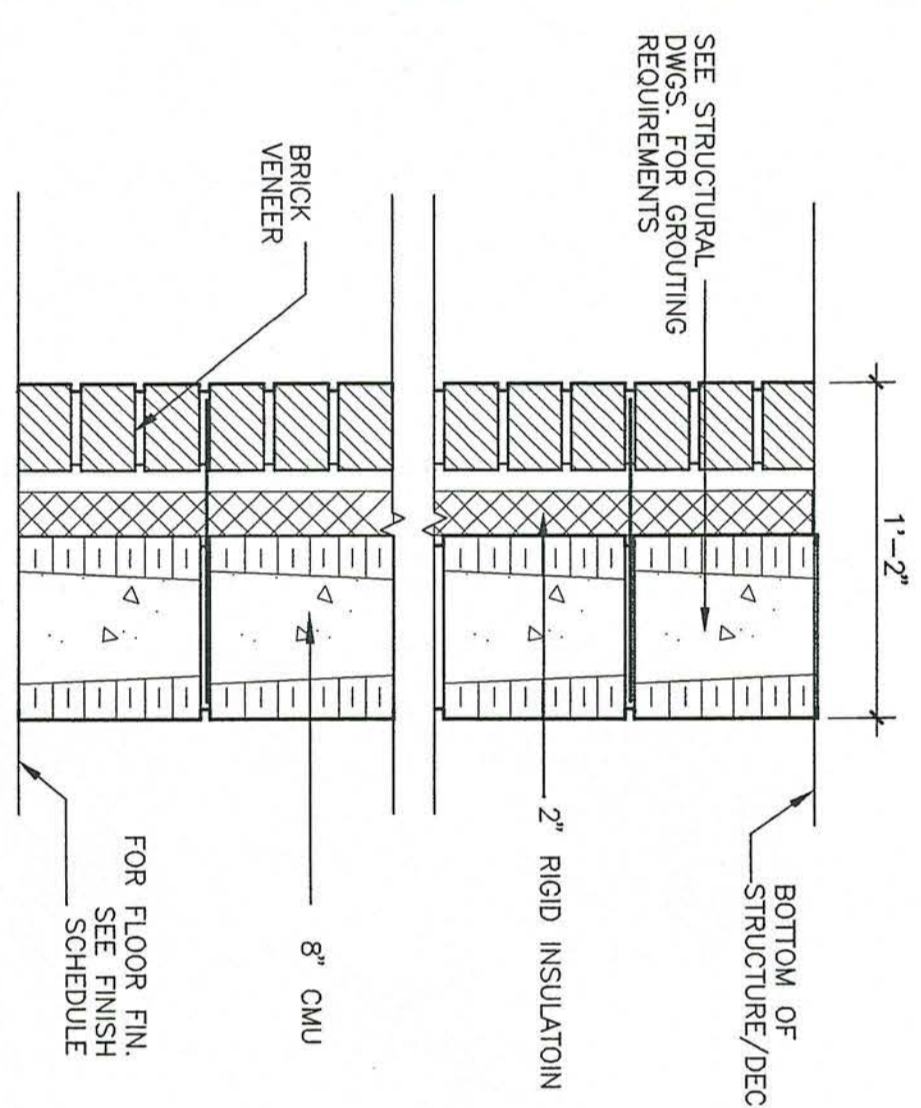




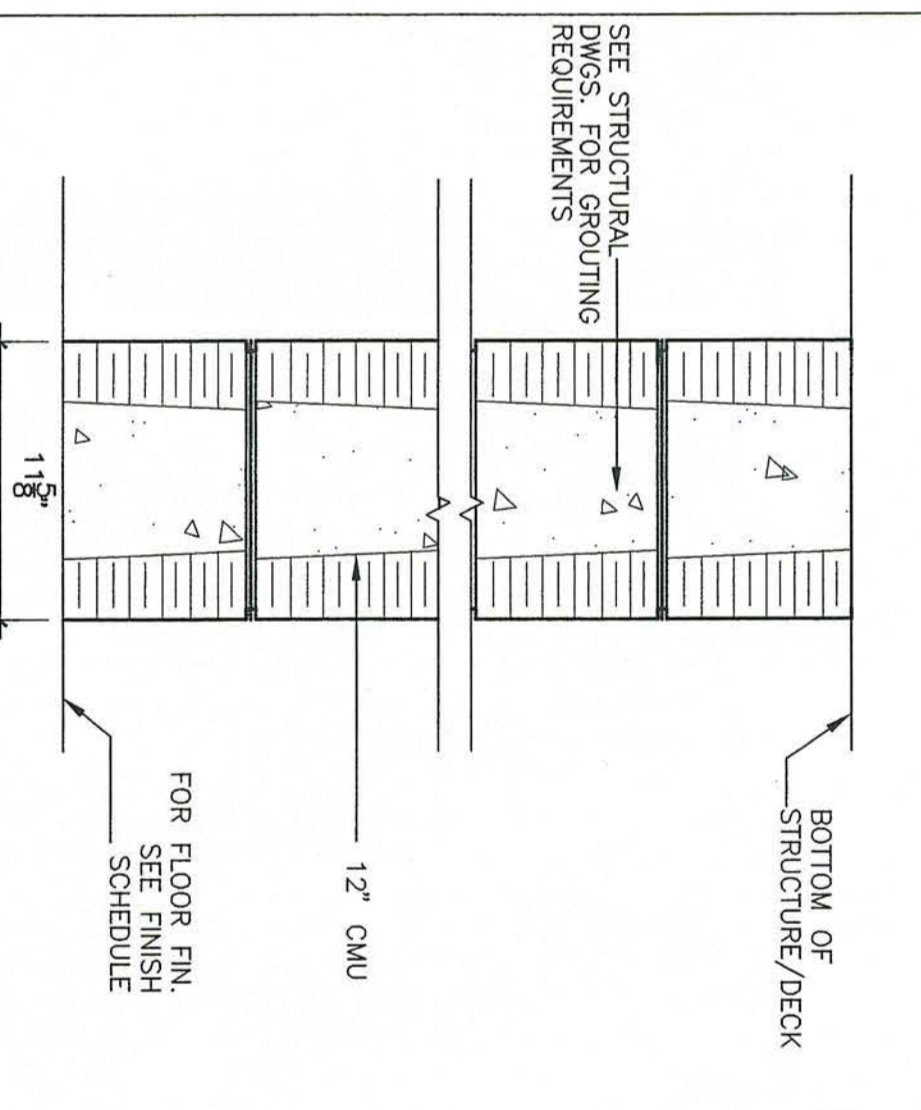
**1** NON RATED WALL  
SCALE: 1 1/2"=1'-0"  
NOTE: SEE FINISH PLAN FOR CEILING LOCATIONS & HEIGHTS



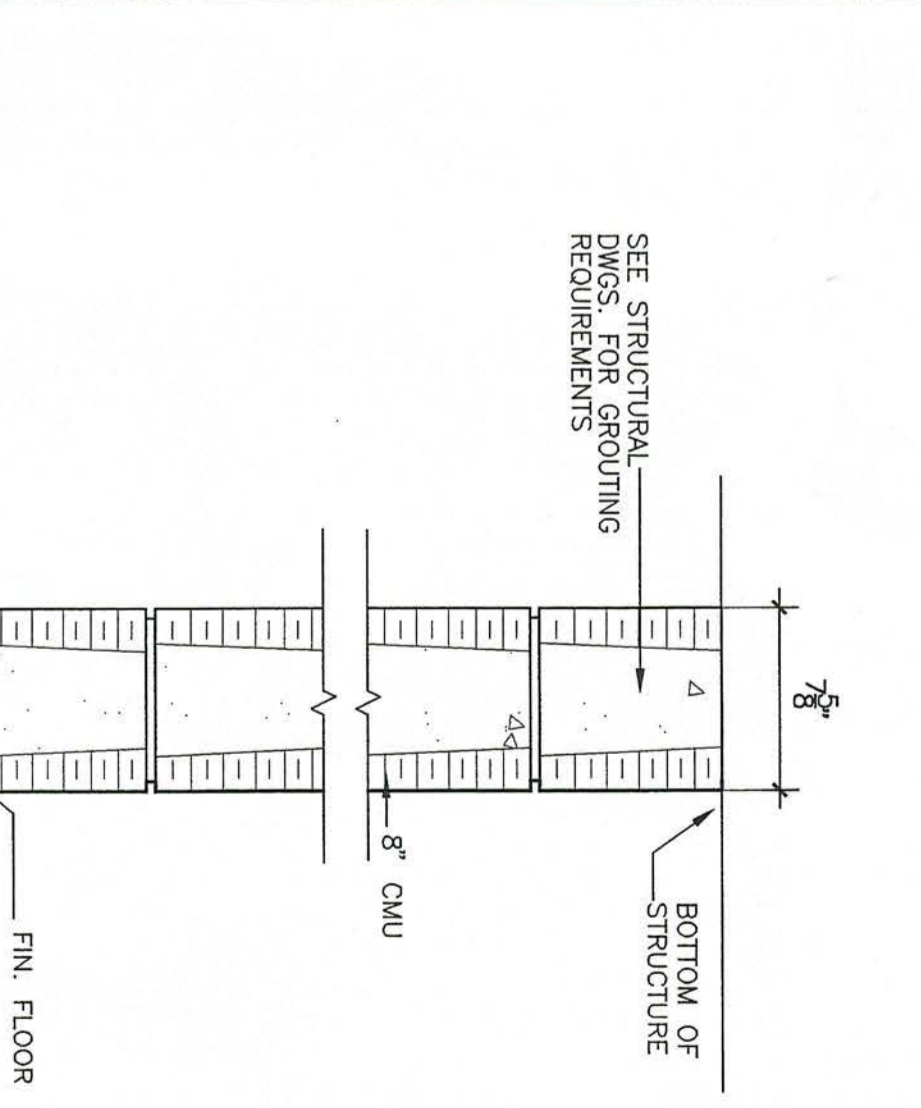
**2** NON RATED WALL  
SCALE: 1 1/2"=1'-0"  
NOTE: SEE FINISH PLAN FOR CEILING LOCATIONS & HEIGHTS



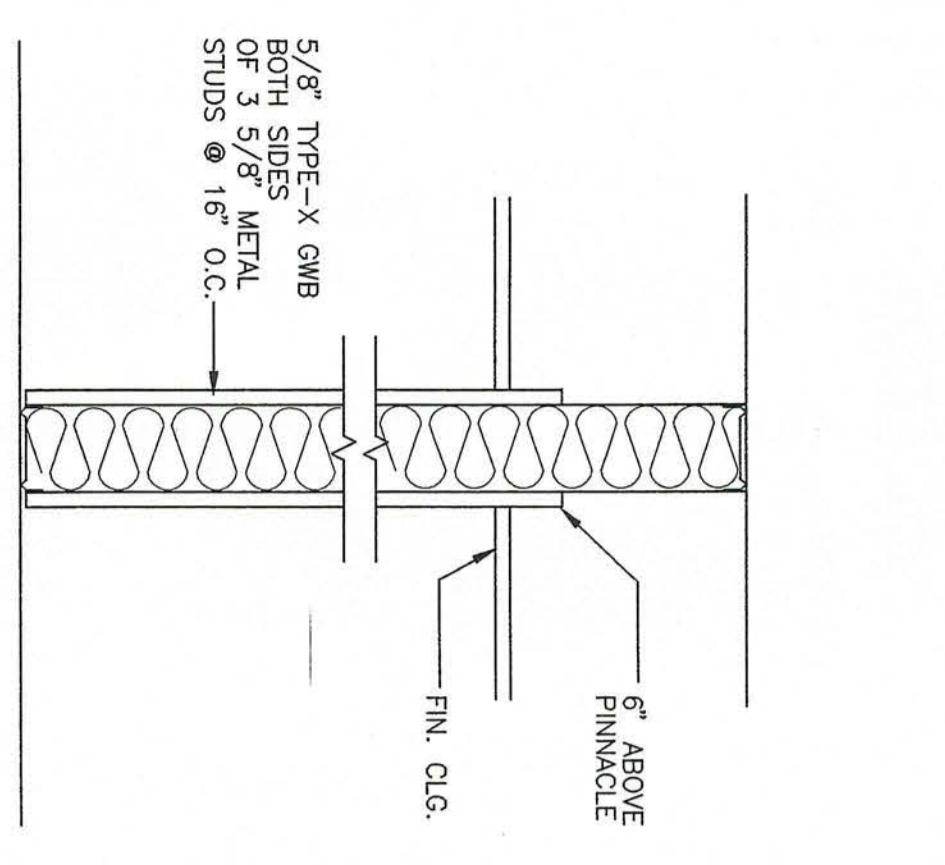
**3** NON RATED WALL  
SCALE: 1 1/2"=1'-0"  
NOTE: SEE FINISH PLAN FOR CEILING LOCATIONS & HEIGHTS



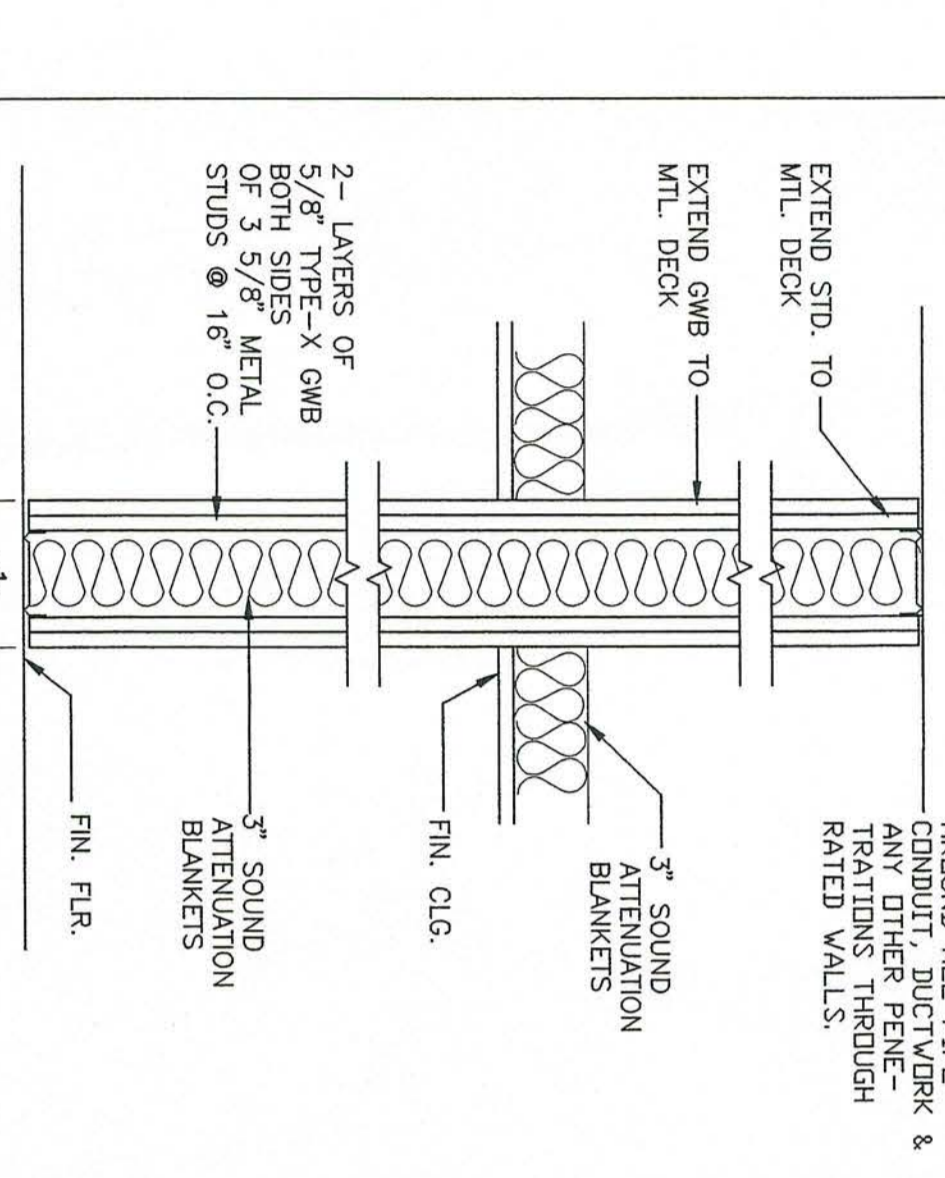
**4** NON RATED WALL  
SCALE: 1 1/2"=1'-0"  
NOTE: SEE FINISH PLAN FOR CEILING LOCATIONS & HEIGHTS



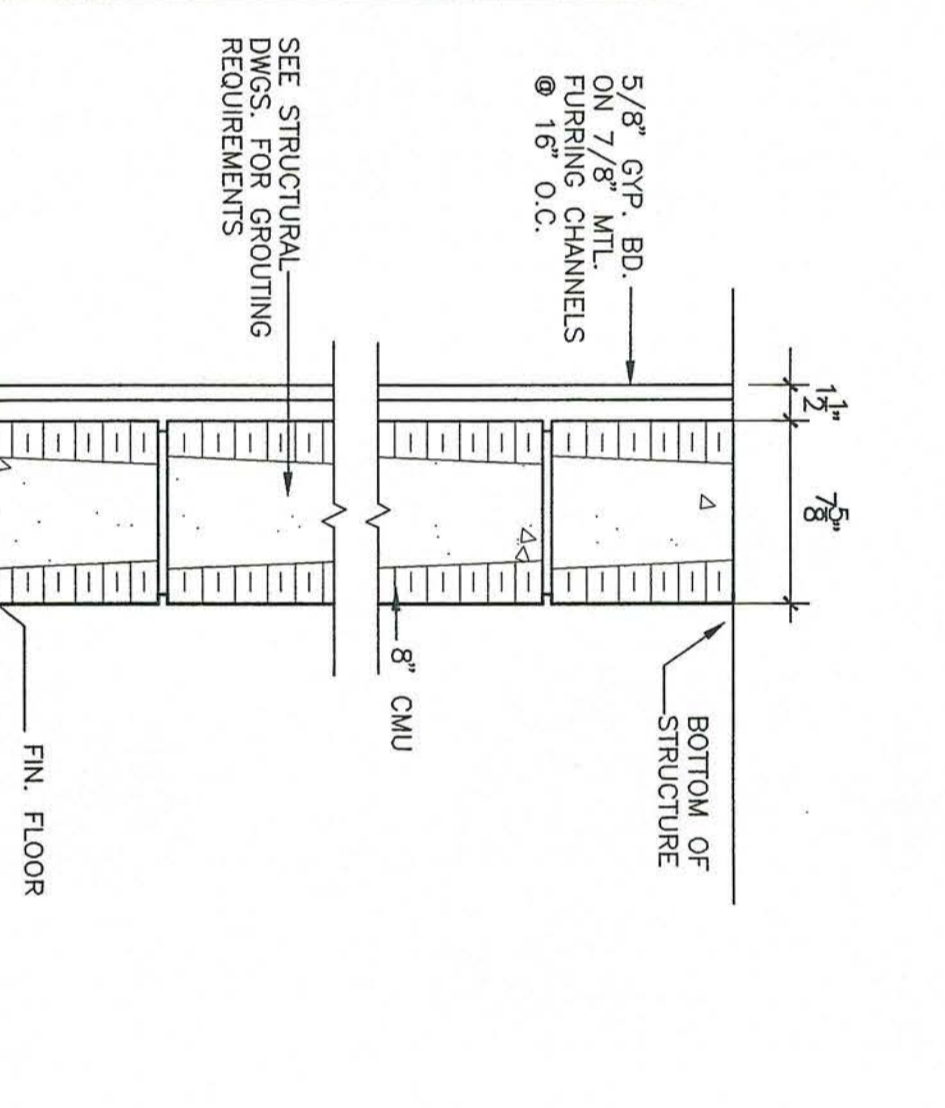
**5** NON RATED WALL  
SCALE: 1 1/2"=1'-0"  
NOTE: SEE FINISH PLAN FOR CEILING LOCATIONS & HEIGHTS



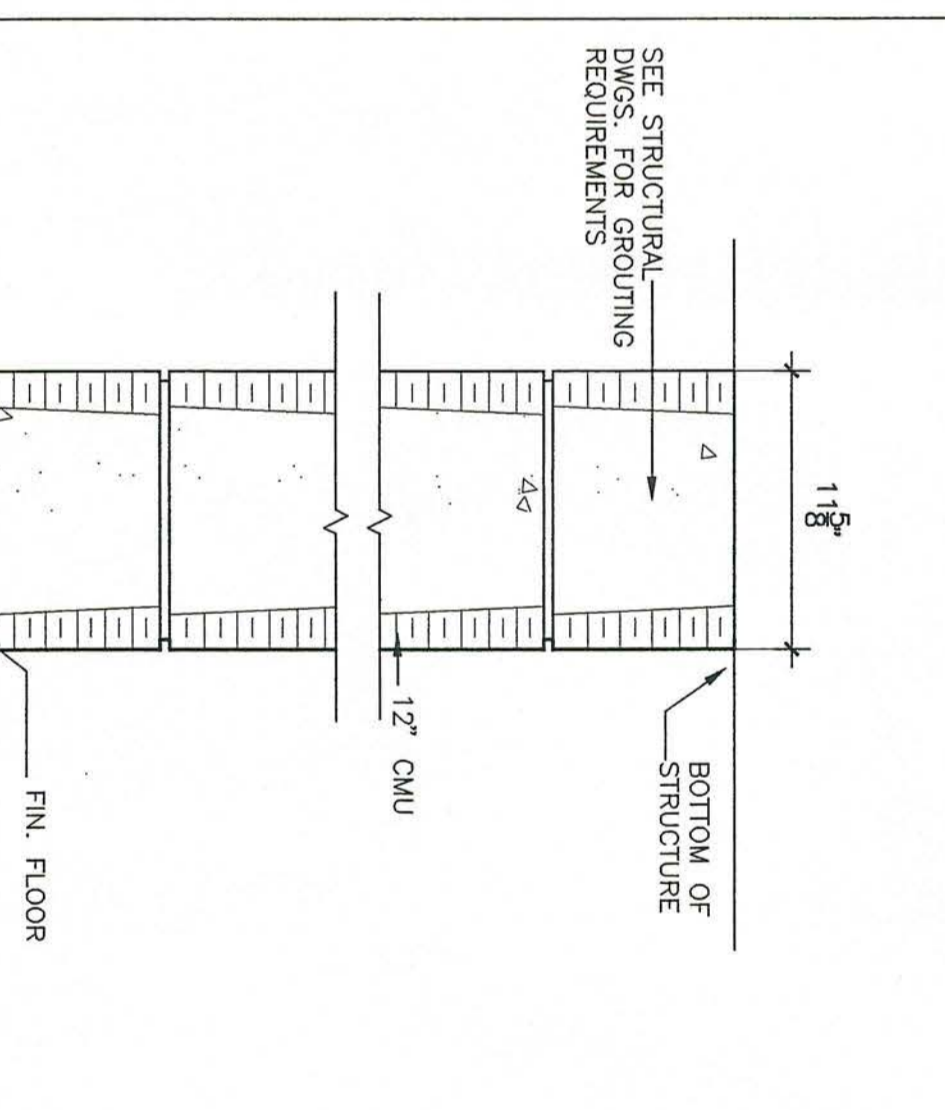
**6** NON RATED WALL  
SCALE: 1 1/2"=1'-0"  
NOTE: SEE FINISH PLAN FOR CEILING LOCATIONS & HEIGHTS



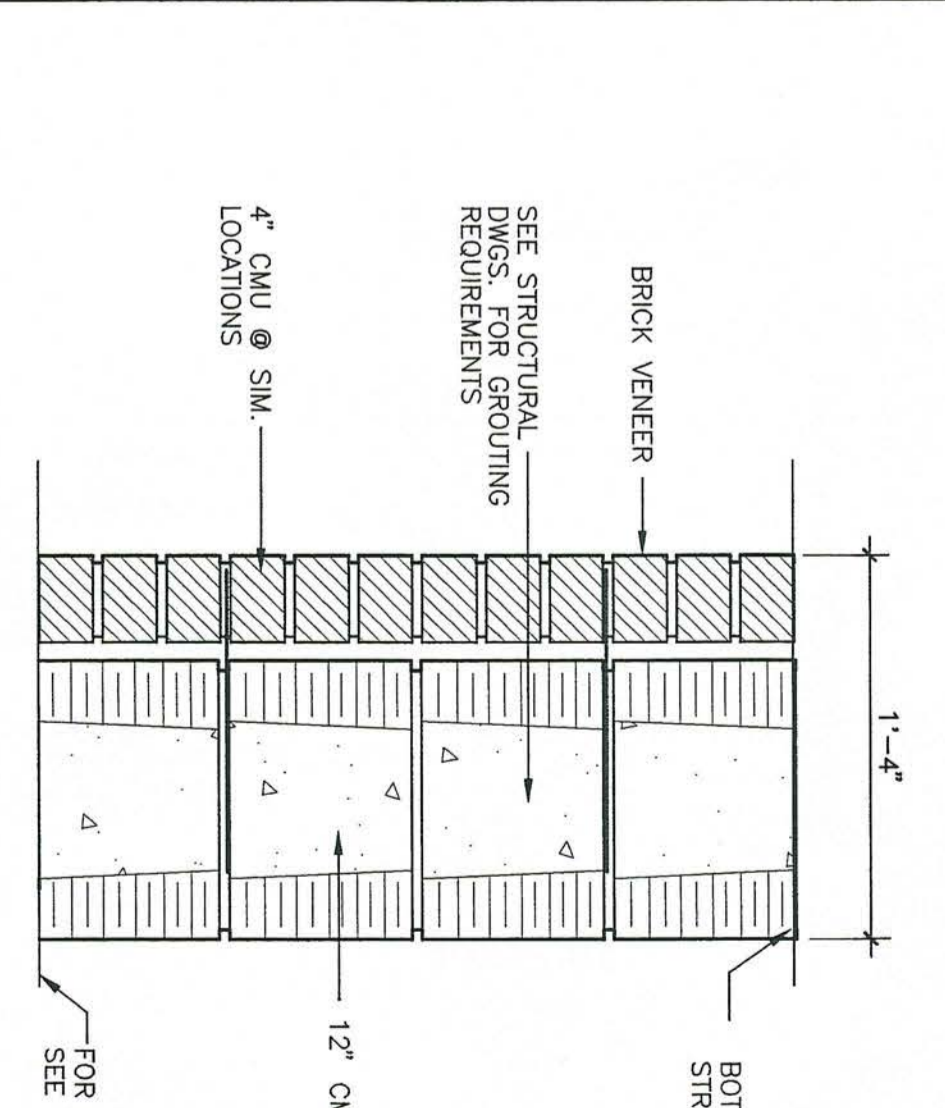
**7** 2 HR RATED WALL  
SCALE: 1 1/2"=1'-0"  
UL# U491  
NOTE: SEE FINISH PLAN FOR CEILING LOCATIONS & HEIGHTS



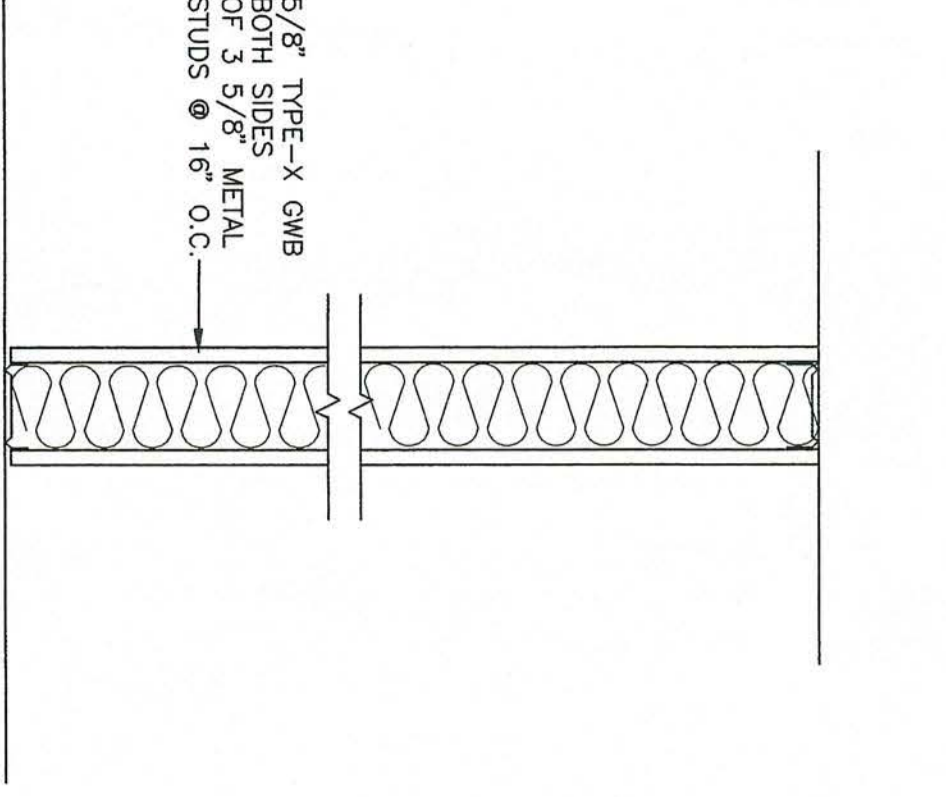
**8** 2 HR RATED 8\"/>



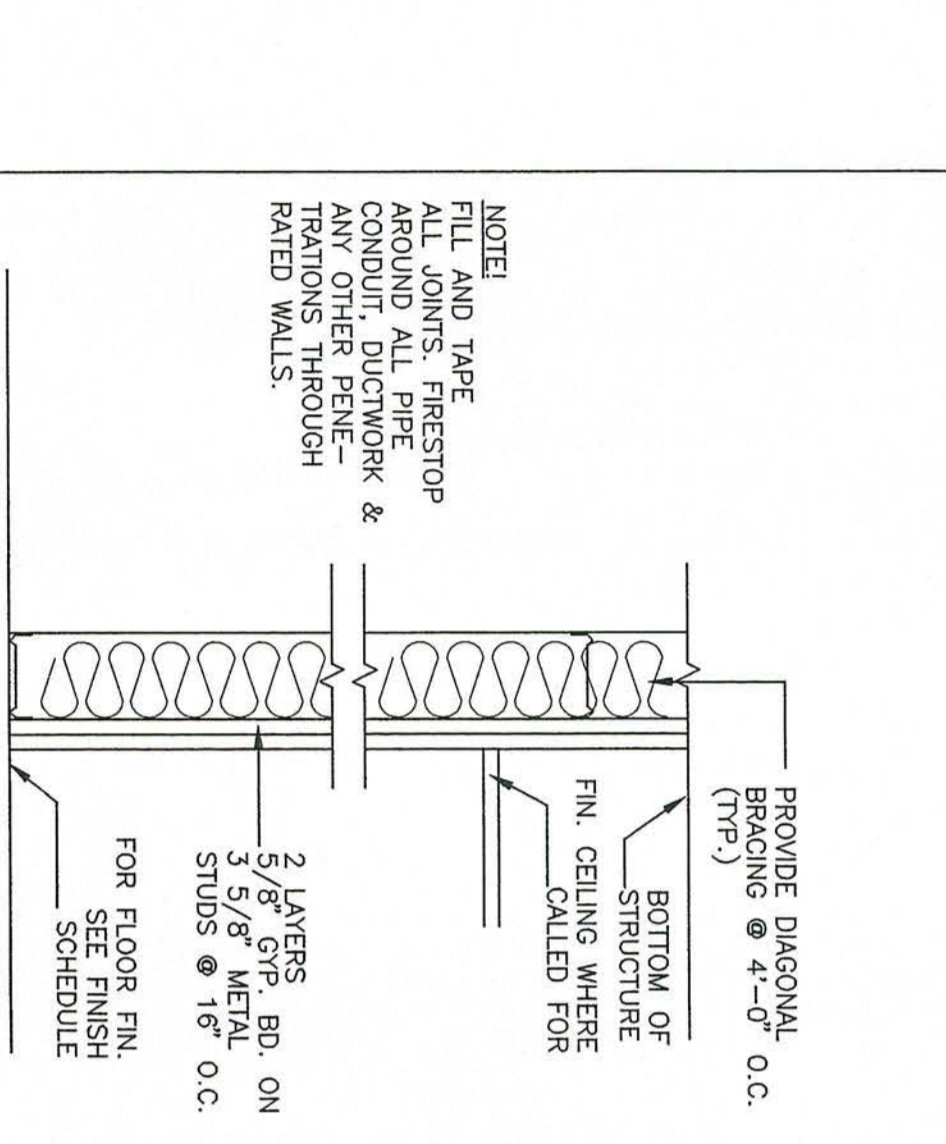
**9** 2 HR RATED 12\"/>



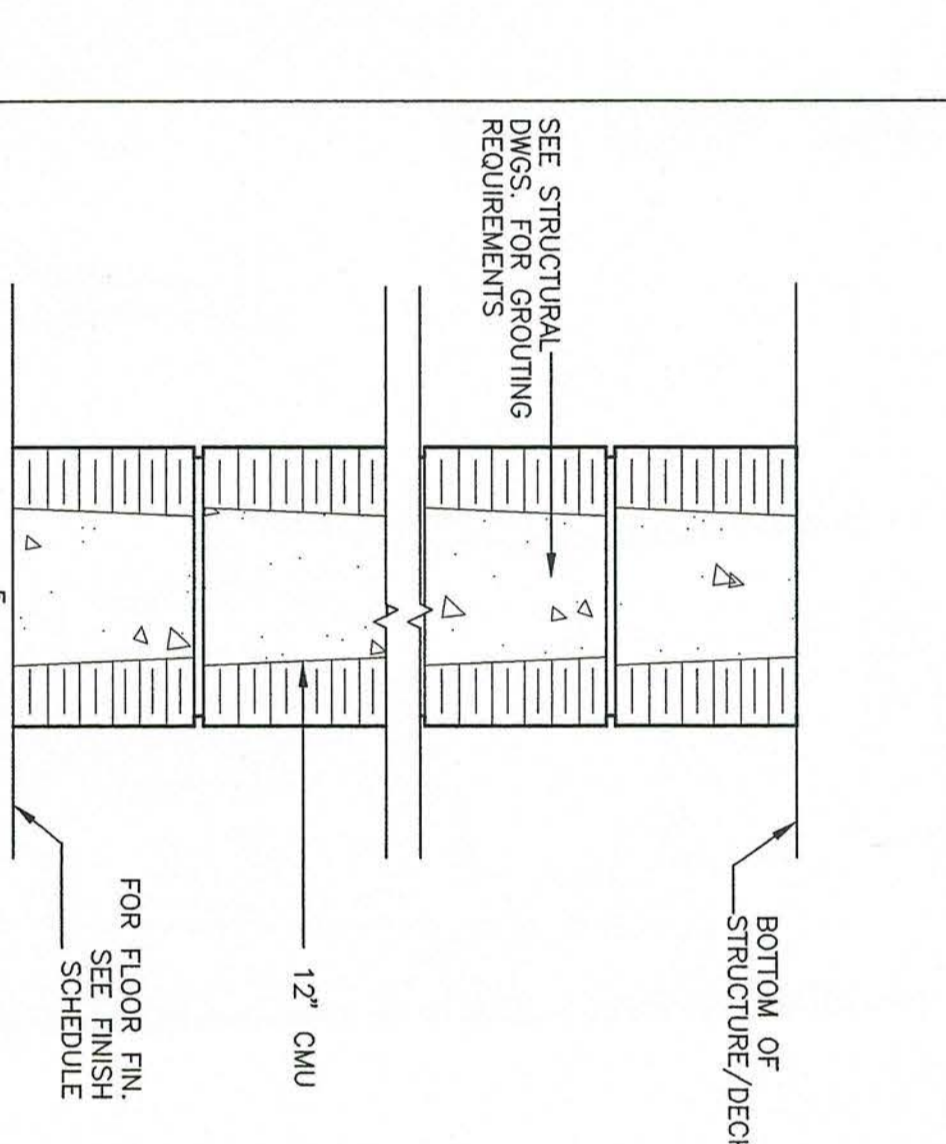
**10** 2 HR RATED WALL  
SCALE: 1 1/2"=1'-0"  
NOTE: SEE FINISH PLAN FOR CEILING LOCATIONS & HEIGHTS



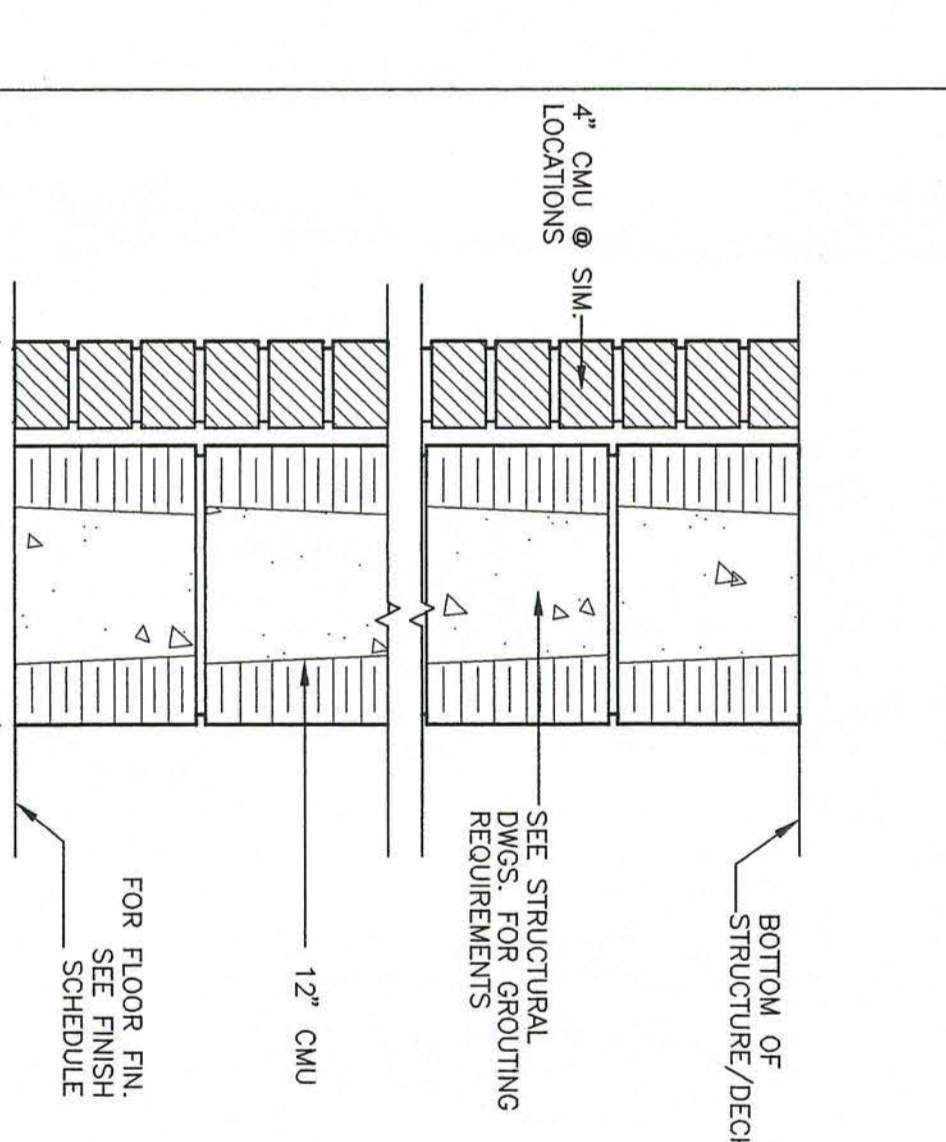
**12** 1 HR RATED WALL  
SCALE: 1 1/2"=1'-0"  
UL# U465  
NOTE: SEE FINISH PLAN FOR CEILING LOCATIONS & HEIGHTS



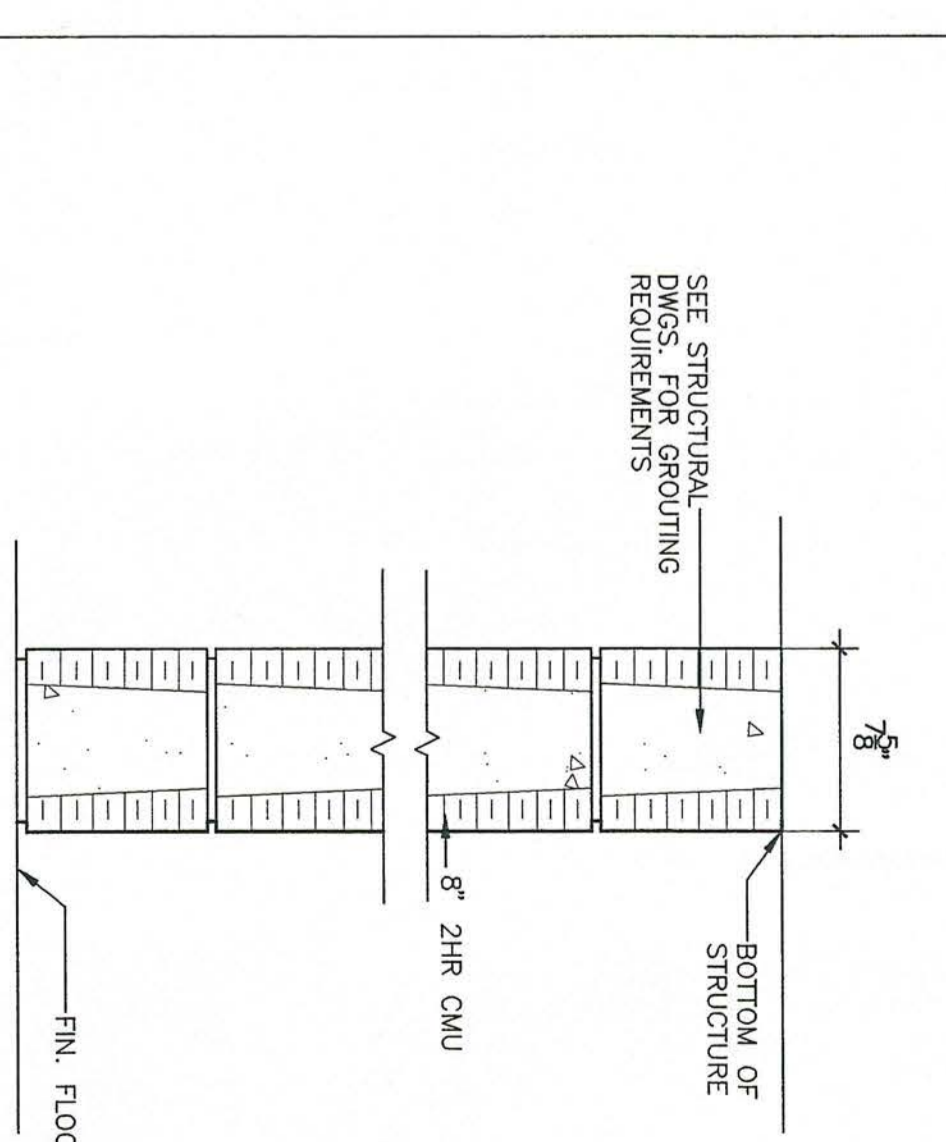
**13** 1 HR RATED CHASE WALL  
SCALE: 1 1/2"=1'-0"  
NOTE: SEE FINISH PLAN FOR CEILING LOCATIONS & HEIGHTS



**14** 1 HR RATED WALL  
SCALE: 1 1/2"=1'-0"  
NOTE: SEE FINISH PLAN FOR CEILING LOCATIONS & HEIGHTS



**15** 1 HR RATED WALL  
SCALE: 1 1/2"=1'-0"  
NOTE: SEE FINISH PLAN FOR CEILING LOCATIONS & HEIGHTS

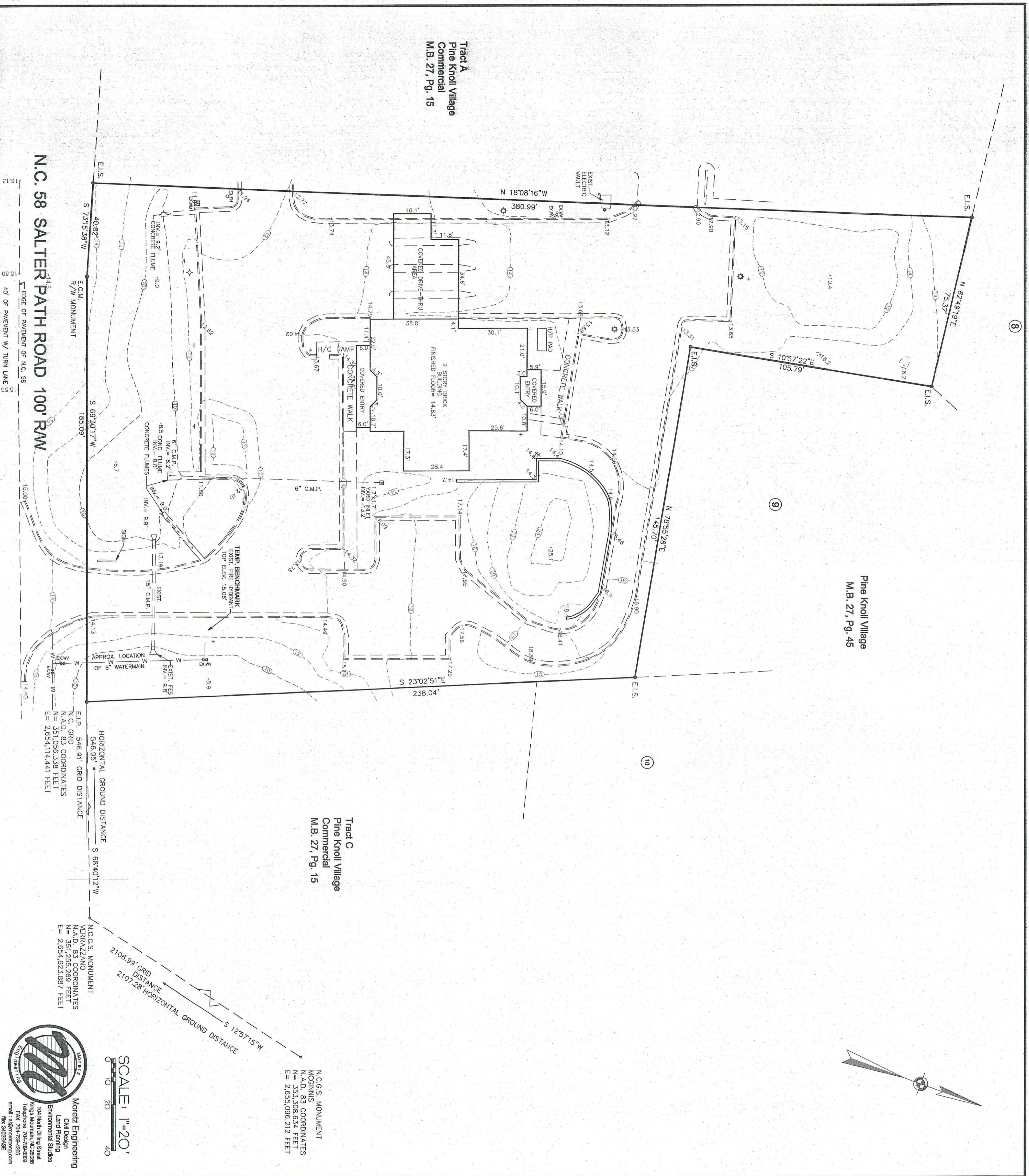


**16** 2 HR RATED WALL  
SCALE: 1 1/2"=1'-0"  
NOTE: SEE FINISH PLAN FOR CEILING LOCATIONS & HEIGHTS







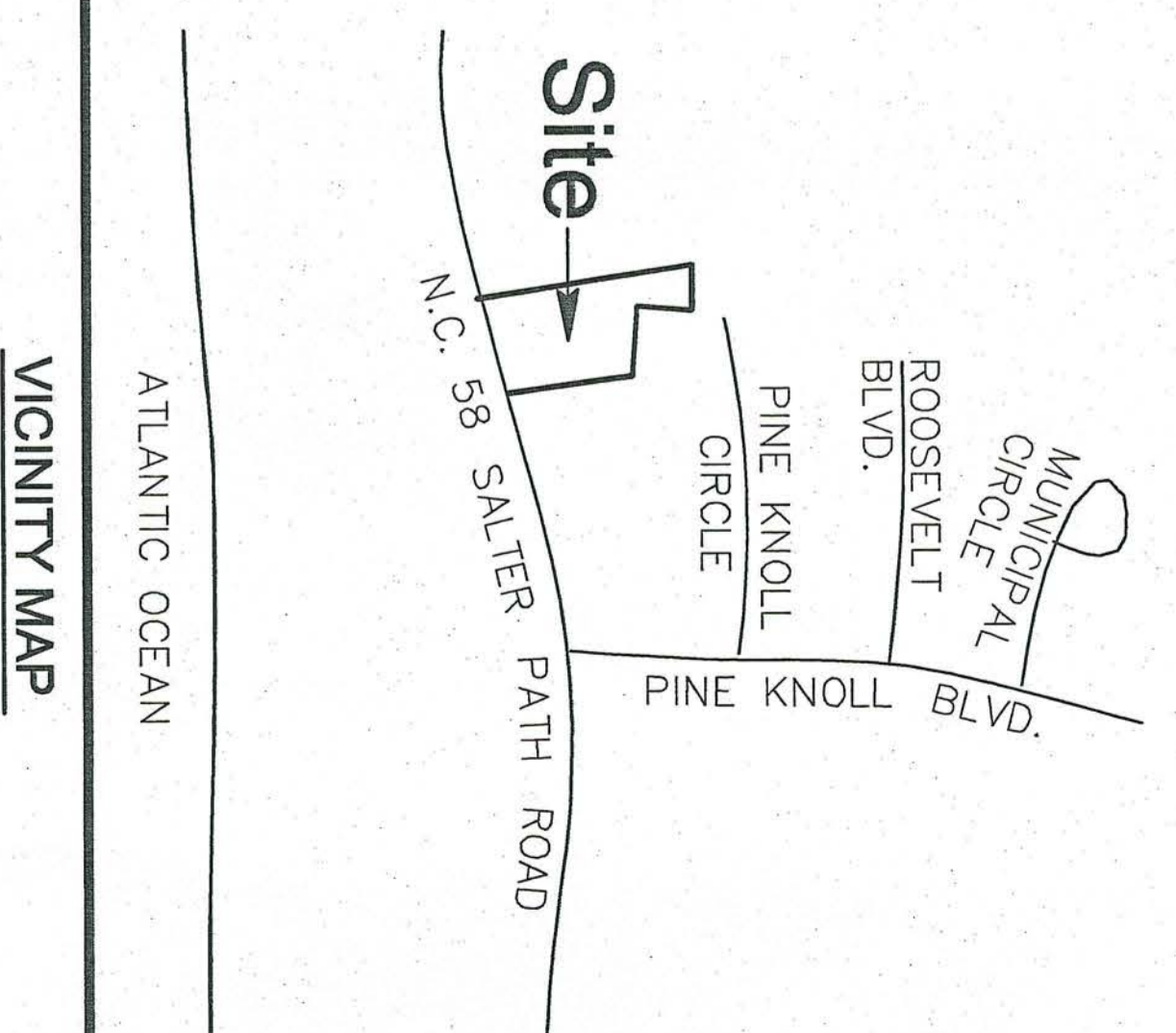
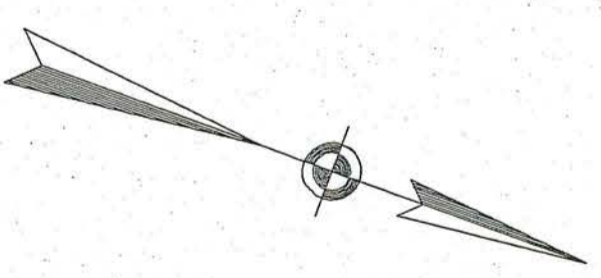


Pine Knoll Village  
M.B. 27, Pg. 45

Tract C  
Pine Knoll Village  
Commercial  
M.B. 27, Pg. 15

Tract A  
Pine Knoll Village  
Commercial  
M.B. 27, Pg. 15

N.C. 58 SALTER PATH ROAD 100' RW



**GENERAL NOTES**

- BOUNDARY/ TOPOGRAPHIC INFORMATION TAKEN FROM A SURVEY BY:  
PRESTIGE LAND SURVEYING, P.A.  
501 W. WINDHAM BLVD.  
SOLIMBERSO, NC  
PHONE # (252) 393-2129
- NOTES FROM SURVEY:  
- TOTAL AREA - 143 ACRES (BY COORDINATE COMPUTATION).  
- REFERENCE: DE 94, PG. 19, DE 60, PG. 79, DE 60, PG. 76, M.B. 27, PG. 5, M.B. 27, PG. 45.  
- TAX PIN 63818-9-8076  
- FLOOD ZONE: ZONE X PER FIRMA 370267-000-E DATED NOVEMBER 6, 1998.  
- THIS PROPERTY IS SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND AGREEMENTS OF RECORD PRIOR TO THE DATE OF THIS PLAN.  
- ELEVATIONS SHOWN HEREON ARE BASED ON MEAN SEA LEVEL, NGVD, 1929 DATUM.  
- ALL ELEVATIONS SHOWN ON EDGE OF PARKING ARE TOP AND BACK OF CURB UNLESS OTHERWISE NOTED.  
- TEMPORARY BENCH MARK IS TOP OF FIRE HYDRANT. ELEV. - 50.6

**LEGEND**

---	EXIST. BOUNDARY LINE
---	EXIST. EDGE OF PAVEMENT
---	EXIST. BUILDING
---	EXIST. CONTOUR
---	EXIST. CURB AND GUTTER
---	EXIST. CONTOUR
---	EXIST. SPOT ELEVATION
---	EXIST. WALL
---	EXIST. WATERMAIN

SCALE: 1"=20'



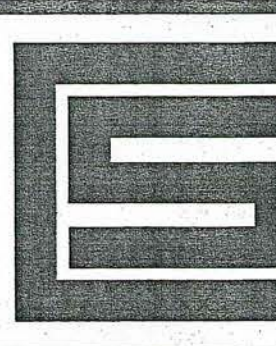
**Moretz Engineering**  
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Land Planning  
Environmental Studies  
104 North Dilling Street  
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Telephone 704-739-8300  
FAX 704-739-4255  
email: @moretzeng.com  
186 04/25/05

Project No.  
**999**

Date  
8/01/02  
Drawn  
ATH  
Checked  
BSR  
Revisions



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www.scn-architects.com  
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fax: 803.926.7771



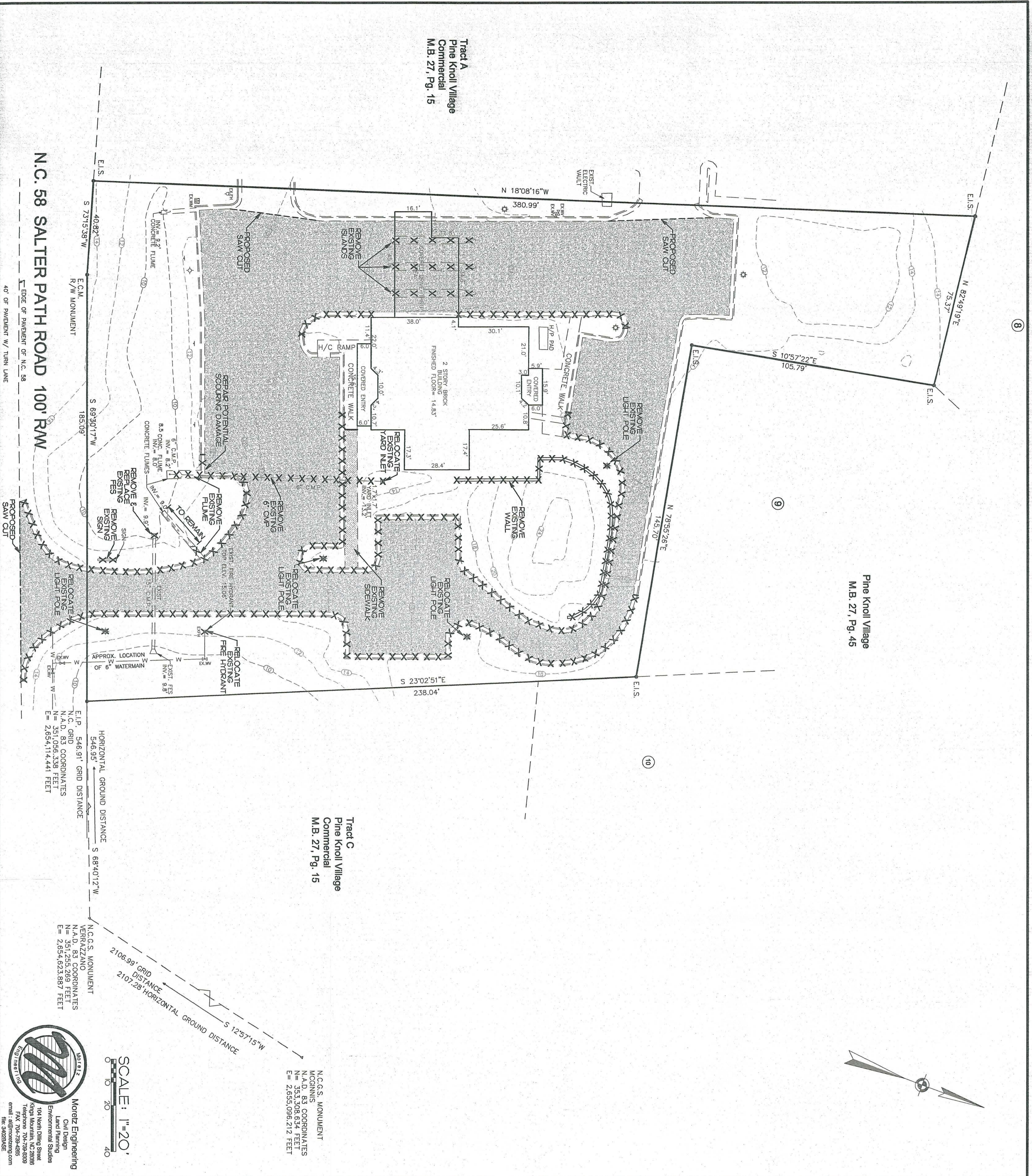
719 east second ave.  
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RENOVATIONS AND ADDITIONS FOR THE  
**NEW PUBLIC SAFETY BUILDING**  
Pine Knoll Shores, North Carolina

**EXISTING CONDITIONS PLAN**

sheet  
**C2.10**





Tract A  
Pine Knoll Village  
Commercial  
M.B. 27, Pg. 15

Pine Knoll Village  
M.B. 27, Pg. 45

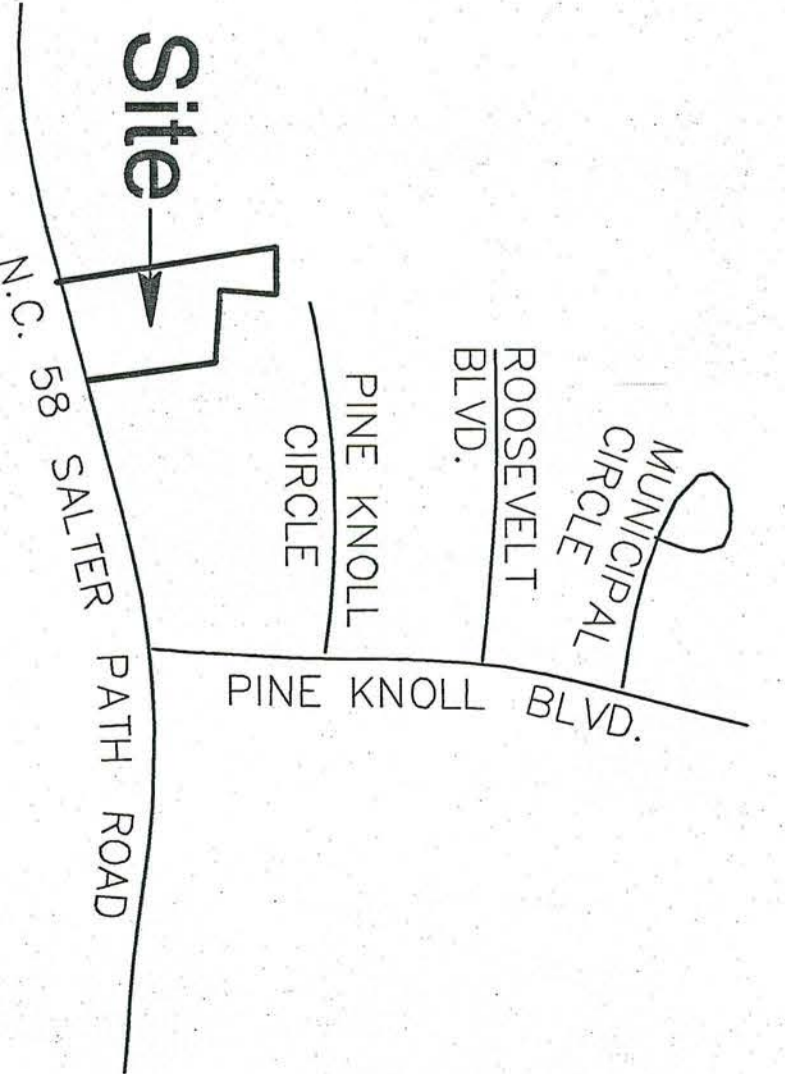
Tract C  
Pine Knoll Village  
Commercial  
M.B. 27, Pg. 15

N.C.G.S. MONUMENT  
MCGINNIS  
N.A.D. 83 COORDINATES  
N = 353,308.634 FEET  
E = 2,855,096.212 FEET

N.C.G.S. MONUMENT  
N.A.D. 83 COORDINATES  
N = 351,255.269 FEET  
E = 2,654,623.887 FEET

SCALE: 1"=20'  
0 10 20 40

Moretz Engineering  
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FAX: 704-739-4285  
email: info@moretzeng.com  
www.moretzeng.com



VICINITY MAP

GENERAL NOTES

- BOUNDARY TOPOGRAPHIC INFORMATION TAKEN FROM A SURVEY BY: PRESTIGE LAND SURVEYING, P.A. 501 W.B. WALEN BLVD. CAPE CARTER-SWANBORO, NC. PHONE # (252) 395-2129
- NOTES FROM SURVEY:
  - TOTAL AREA - 143 ACRES (BY COORDINATE COMPUTATION).
  - REFERENCE: D.B. 914, PG. 591, D.B. 60, PG. 78, D.B. 60, PG. 76, M.B. 27, PG. 51, M.B. 27, PG. 43.
  - TAX P.L.N. 635018-31-8076
  - FLOOD ZONE, ZONE X PER FIRM 370267-000-E DATED NOVEMBER 6, 1998.
  - THIS PROPERTY IS SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND AGREEMENTS OF RECORD PRIOR TO THE DATE OF THIS PLAN.
  - ELEVATIONS SHOWN HEREON ARE BASED ON MEAN SEA LEVEL, N.G.V.D. 1929 DATUM.
  - ALL ELEVATIONS SHOWN ON EDGE OF PARKING ARE TOP AND BACK OF CURB UNLESS OTHERWISE NOTED.
- RELOCATION OF POWER POLES AND LINE SHALL BE BY THE OWNER.
- CONTRACTOR SHALL SAWCUT ALL ASPHALT TO BE REMOVED IN NEAT STRAIGHT LINES FROM EXISTING EDGE OF PAVEMENT (WHERE APPLICABLE).
- ALL DEMOLITION SHALL BE HALLED OFF-SITE AND DISPOSED OF OFF-SITE AT A PERMITTED DISPOSAL SITE.
- SEE ARCHITECTURAL PLANS FOR BUILDING DEMOLITION.

LEGEND

	EXIST. BOUNDARY LINE
	EXIST. EDGE OF PAVEMENT
	EXIST. BUILDING
	EXIST. CONTROL
	EXIST. CURB AND GUTTER
	EXIST. STORM DRAIN
	EXIST. WATERMAN
	EXIST. ASPHALT TO BE REMOVED
	PROP. SAW CUT

RENOVATIONS AND ADDITIONS FOR THE  
**NEW PUBLIC SAFETY BUILDING**  
Pine Knoll Shores, North Carolina

**DEMOLITION PLAN**

sheet  
**C2.11**

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fax: 803.926.7771

Project No.  
**999**

Date  
8/01/02

Drawn  
ATH

Checked  
BSR

Revisions

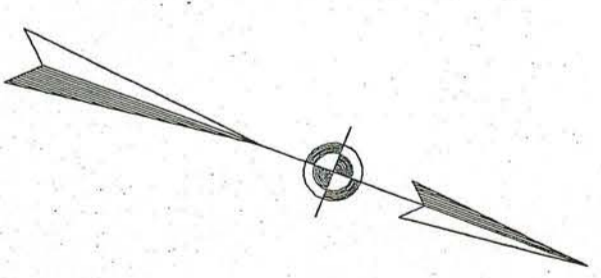
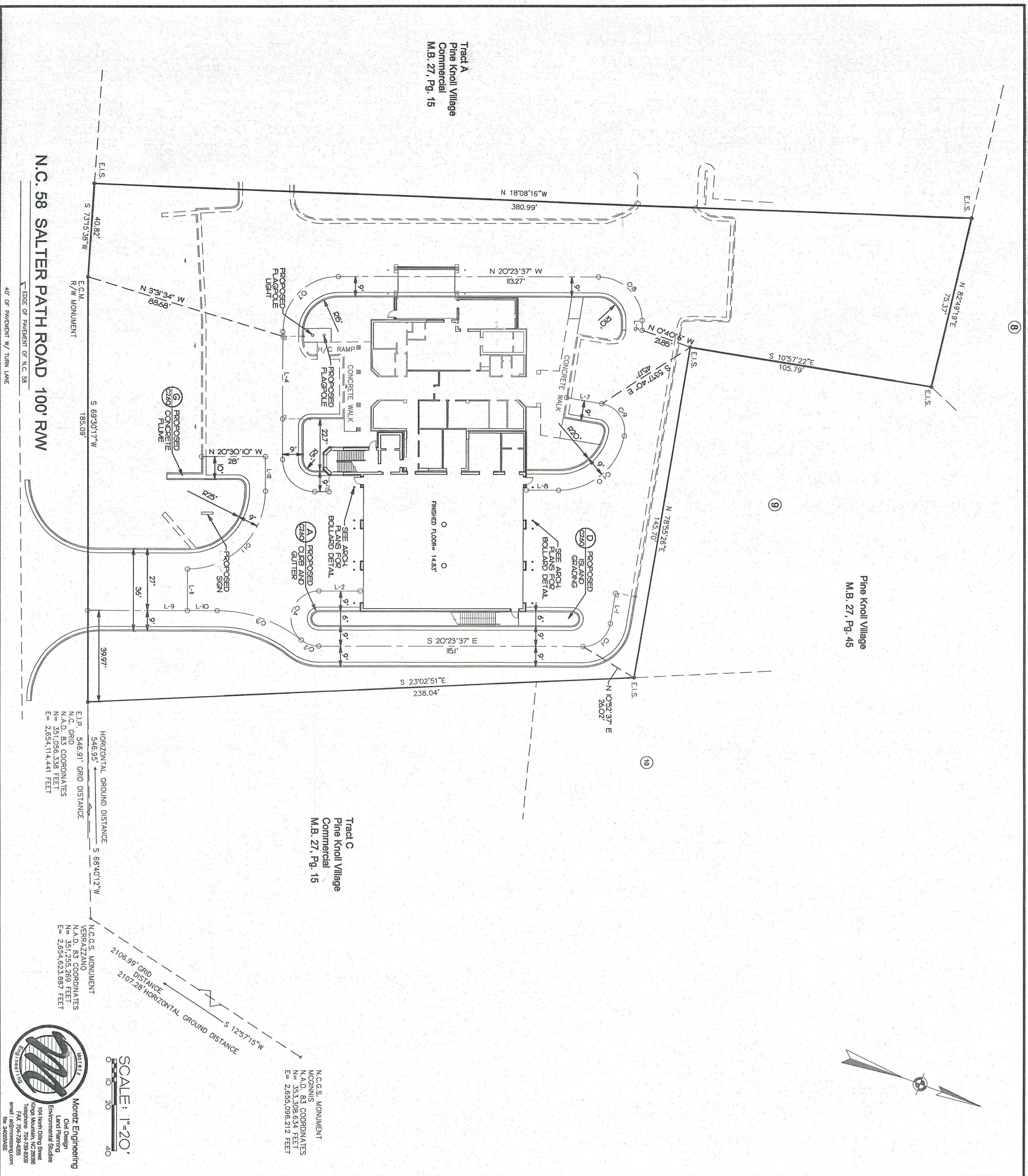


Tract A  
Pine Knoll Village  
Commercial  
M.B. 27, Pg. 15

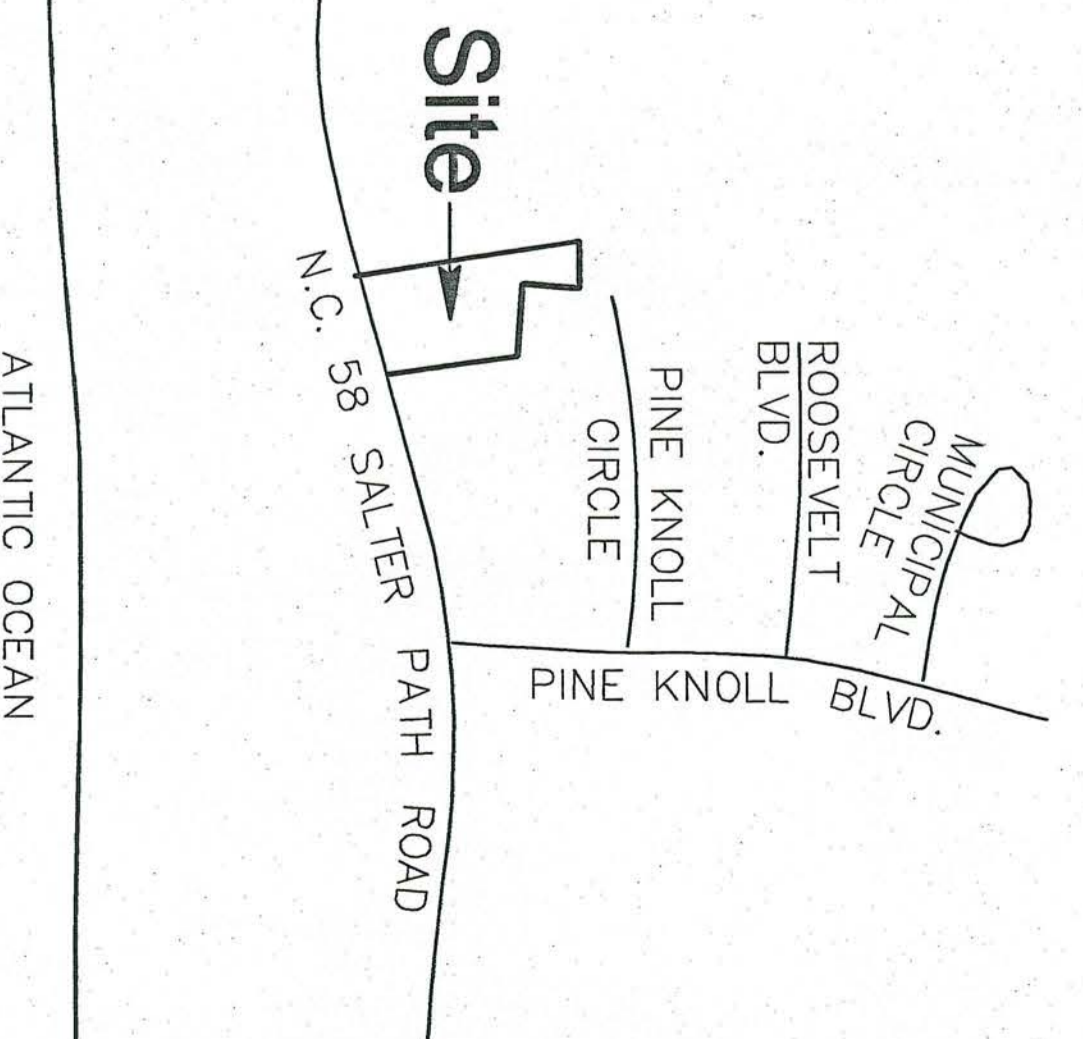
Pine Knoll Village  
M.B. 27, Pg. 45

Tract C  
Pine Knoll Village  
Commercial  
M.B. 27, Pg. 15

N.C.G.S. MONUMENT  
MCGINNIS  
N.A.D. 83 COORDINATES  
N = 353,308.634 FEET  
E = 2,855,099,212 FEET



SCALE: 1"=20'



**GENERAL NOTES**

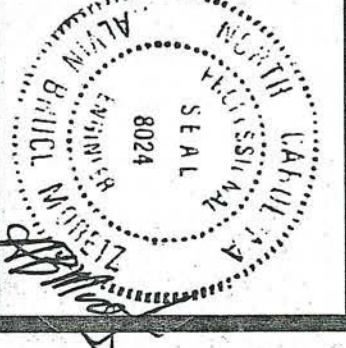
1. LOT AREA: 143 ACRES
2. BUILDING AREA: EXIST. BUILDING: 3,697 ± SQ. FT. TOTAL BUILDING AREA: 9,939 SQ. FT.
3. FLOOR AREA RATIO TO LOT - 15.95%
4. CURRENT ZONING: MS
5. PROJECT ADDRESS: 314 SALTER PATH RD (HWY 59) PINE KNOLL SHORES, NC 28512
6. CONTACT ADDRESS: TOWN OF PINE KNOLL SHORES 100 MUNICIPAL CIRCLE PINE KNOLL SHORES, NC 28512
7. BOUNDARY/TOPOGRAPHIC INFORMATION TAKEN FROM A SURVEY BY: PRESTIGE LAND SURVEYING, P.A. 501 W. WALEN BLVD. CLARE CARTER-SWANSON, NC PHONE #: (252) 395-2129
8. ALL RADII ARE MEASURED TO BACK OF CURB AND ARE 3' UNLESS OTHERWISE NOTED.
9. ALL DIMENSIONS ARE MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED.

**LEGEND**

- EXIST. BOUNDARY LINE
- - - - EXIST. EDGE OF PAVEMENT
- ==== EXIST. BUILDING
- ==== PROP. BUILDING
- ==== EXIST. CURB AND GUTTER
- ==== PROP. CURB AND GUTTER
- ==== PROP. CENTERLINE

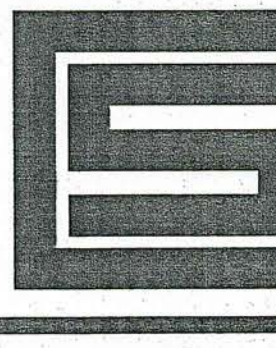
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fax: 803.926.7771

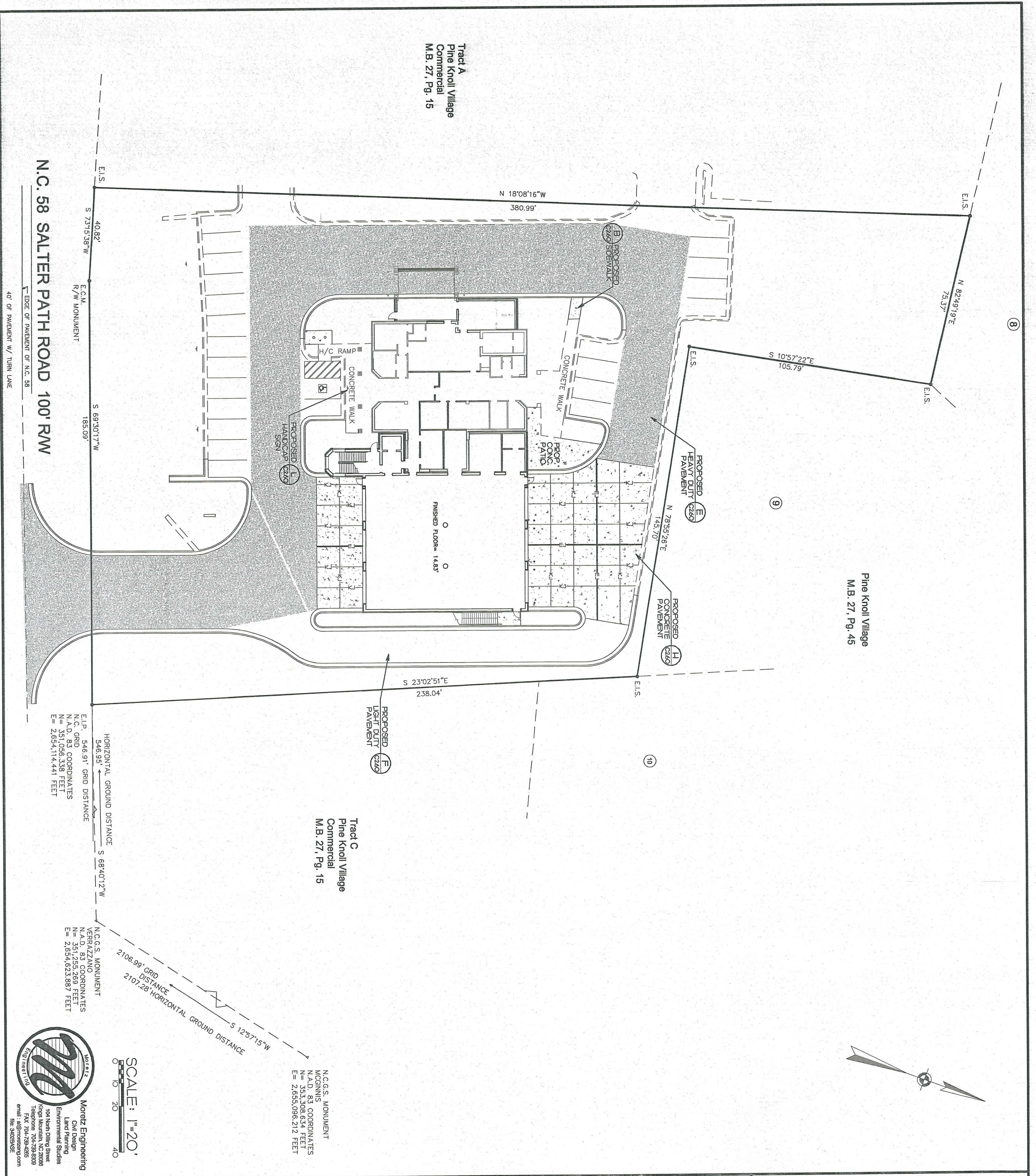
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fax: 704.865.0046



RENOVATIONS AND ADDITIONS FOR THE  
**NEW PUBLIC SAFETY BUILDING**  
Pine Knoll Shores, North Carolina  
**STAKING PLAN**

sheet  
**C2.20**





Tract A  
Pine Knoll Village  
Commercial  
M.B. 27, Pg. 15

Pine Knoll Village  
M.B. 27, Pg. 45

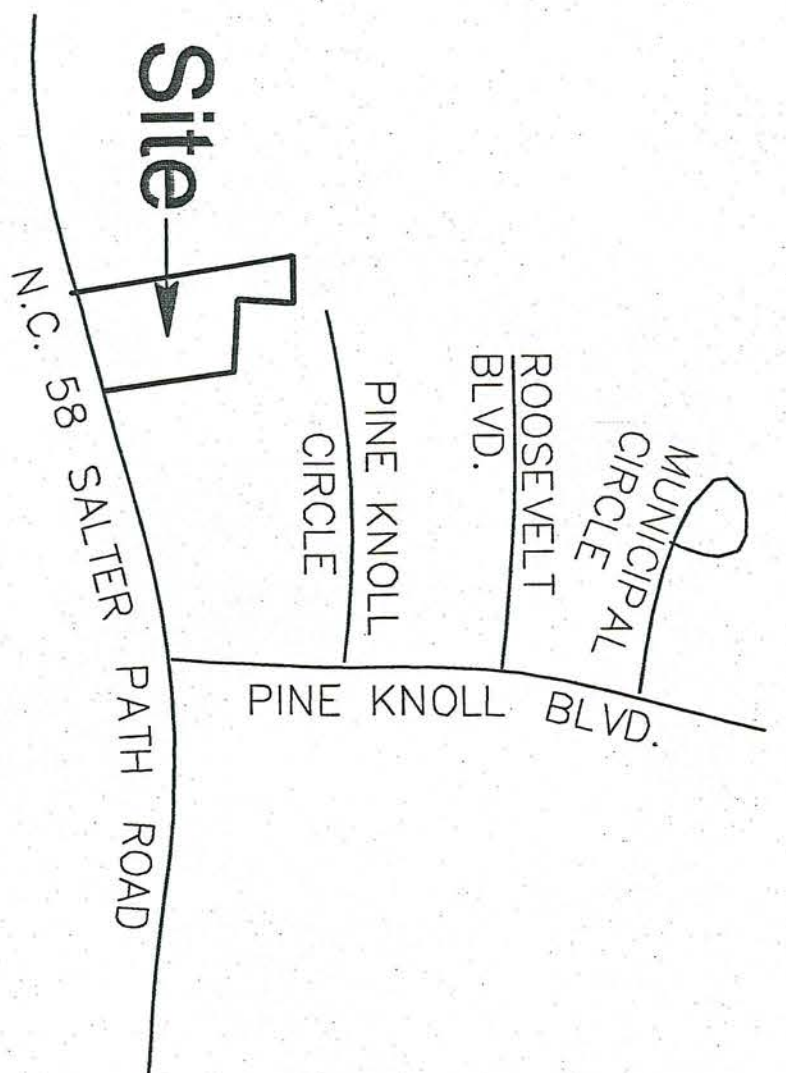
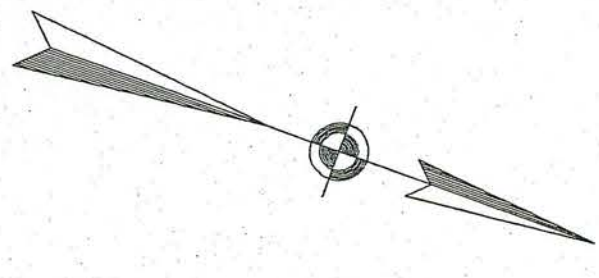
Tract C  
Pine Knoll Village  
Commercial  
M.B. 27, Pg. 15

N.C.G.S. MONUMENT  
MCGINNIS  
N.A.D. 83 COORDINATES  
N = 353,308.634 FEET  
E = 2,655,096.212 FEET

E.I.P. 546.91' GRID DISTANCE  
N.C. GRID  
N.A.D. 83 COORDINATES  
N = 351,056.336 FEET  
E = 2,554,114.441 FEET

N.C.G.S. MONUMENT  
VERRAZZANO  
N.A.D. 83 COORDINATES  
N = 351,255.289 FEET  
E = 2,654,623.887 FEET

SCALE: 1"=20'  
0 10 20 40



- GENERAL NOTES**
- EXPANSION JOINT MATERIAL TO BE PLACED AT THE EDGES OF ALL CONCRETE PAVING AND AT THE BLDG.
  - PARKING PROVIDED - 23 SPACES @ 9' x 9' = 207 SQ. FT. TOTAL

**LEGEND**

---	EXST. BOUNDARY LINE
---	EXST. EDGE OF PAVEMENT
---	EXST. BUILDING
---	PROP. BUILDING
---	EXST. CURB AND GUTTER
---	PROP. CURB AND GUTTER
---	PROP. CONCRETE
---	EXST. STRIPING
---	EXPANSION JOINT
---	KETED JOINT

Project No.  
**999**

Date  
8/01/02  
Drawn  
ATH  
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BSR  
Revisions



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Planning Architecture Interiors

719 east second ave.  
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RENOVATIONS AND ADDITIONS FOR THE  
**NEW PUBLIC SAFETY BUILDING**  
Pine Knoll Shores, North Carolina

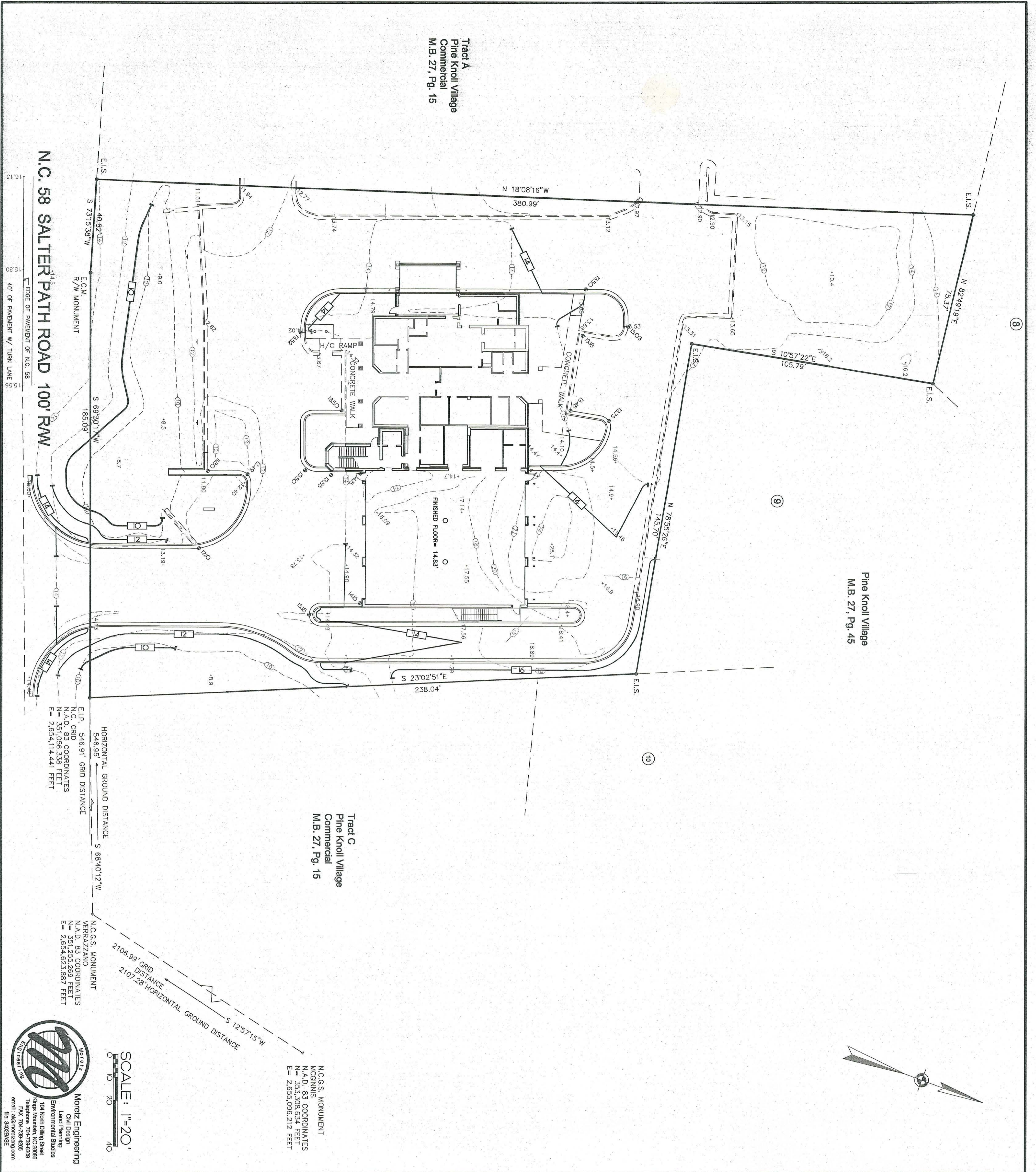
**STRIPING AND PAVING PLAN**

sheet  
**C2.21**









Tract A  
Pine Knoll Village  
Commercial  
M.B. 27, Pg. 15

Pine Knoll Village  
M.B. 27, Pg. 45

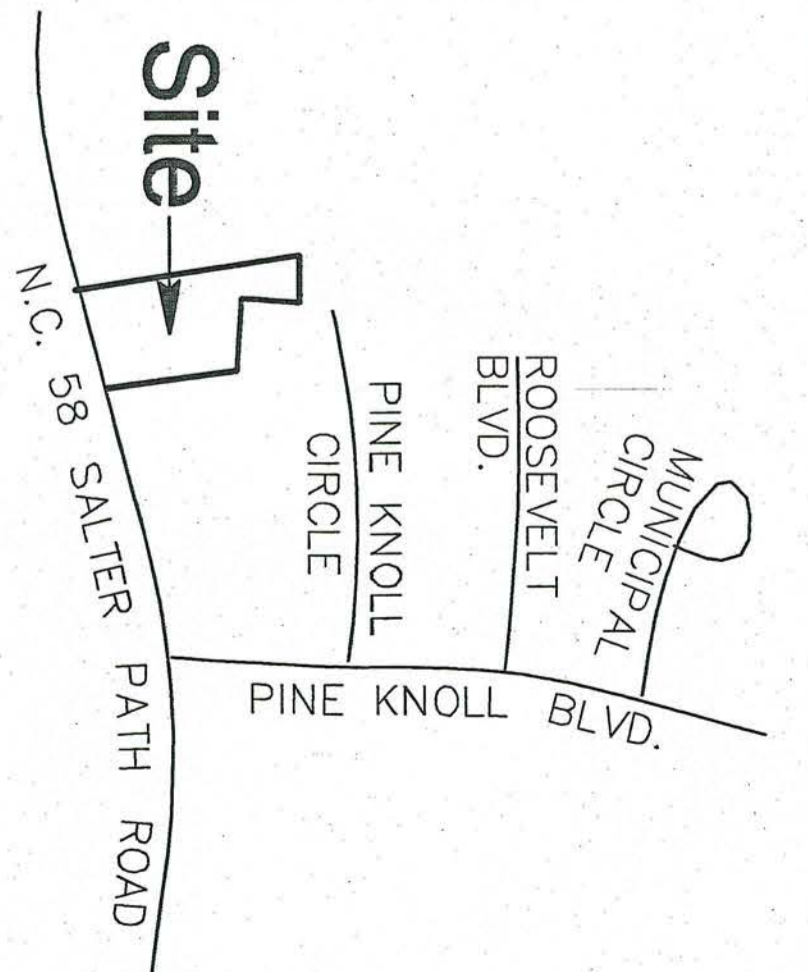
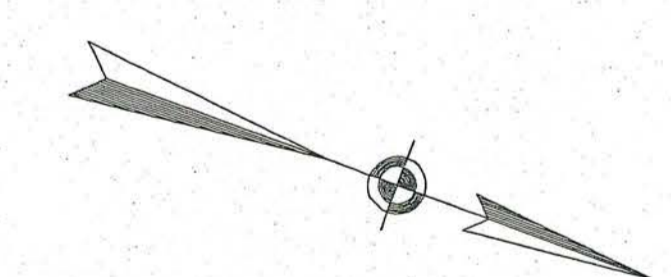
Tract C  
Pine Knoll Village  
Commercial  
M.B. 27, Pg. 15

N.C.G.S. MONUMENT  
MCINNIS  
N.A.D. 83 COORDINATES  
N = 3551,308.534 FEET  
E = 21695,096.212 FEET

E.I.P. 546.91' GRID DISTANCE  
N.C.G. GRID COORDINATES  
N = 351,056.338 FEET  
E = 21654,114.441 FEET

N.C.G.S. MONUMENT  
VERRAZZANO  
N.A.D. 83 COORDINATES  
N = 351,255.289 FEET  
E = 21654,623.887 FEET

SCALE: 1"=20'  
0 10 20 40



**VICINITY MAP**

- GENERAL NOTES**
1. ALL PROPOSED SPOT ELEVATIONS WITHIN PAVED AREAS ARE AT PROPOSED BOTTOM OF CURB UNLESS OTHERWISE NOTED.
  2. PROPOSED CONTOURS AND SPOT ELEVATIONS ARE FINISHED GRADE.

**LEGEND**

	EXIST. BOUNDARY LINE
	EXIST. EDGE OF PAVEMENT
	EXIST. BUILDING
	PROP. BUILDING
	EXIST. CURB AND GUTTER
	PROP. CURB AND GUTTER
	EXIST. CONTOUR
	PROP. CONTOUR
	EXIST. SPOT ELEVATION
	PROP. SPOT ELEVATION

RENOVATIONS AND ADDITIONS FOR THE  
**NEW PUBLIC SAFETY BUILDING**  
Pine Knoll Shores, North Carolina

**GRADING PLAN**

sheet  
**C2.40**

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fax: 803.926.7771

Project No.  
**999**

Date  
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ATH

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BSR

Revisions

Professional Seal: MORITZ ENGINEERING, ENVIRONMENTAL STUDIES, CIVIL DESIGN, LAND PLANNING, 104 NORTH DILLING STREET, KINGS MOUNTAIN, NC 28086, TEL: 704-793-8809, FAX: 704-793-4295, WWW.MORITZENG.COM

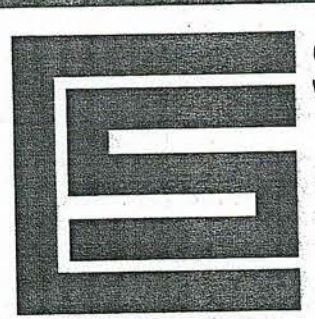


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Date  
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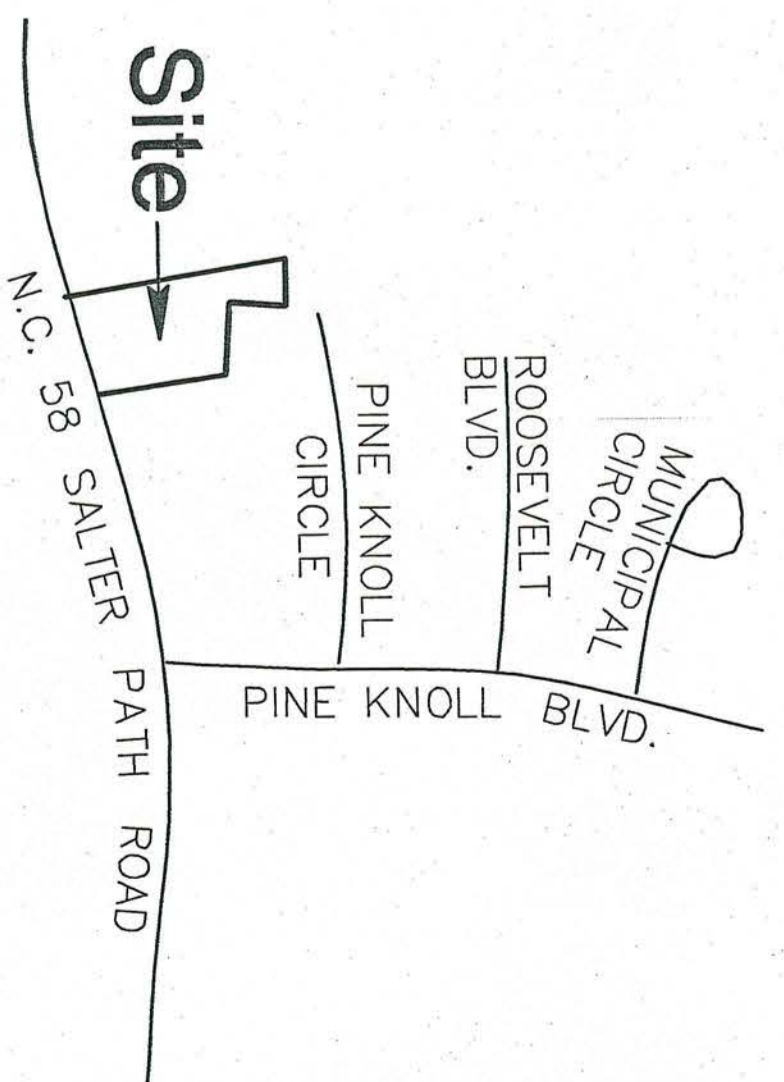
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RENOVATIONS AND ADDITIONS FOR THE  
**NEW PUBLIC SAFETY BUILDING**  
Pine Knoll Shores, North Carolina

**DRAINAGE/UTILITY PLAN**

sheet  
**C2.50**



**GENERAL NOTES**

**VICINITY MAP**

**LEGEND**

---	EXIST. BOUNDARY LINE
---	EXIST. EDGE OF PAVEMENT
---	EXIST. BUILDING
---	PROP. BUILDING
---	EXIST. CURB AND GUTTER
---	PROP. CURB AND GUTTER
---	EXIST. CONTROL
---	PROP. CONTROL
---	EXIST. WATERMAN
---	PROP. WATERMAN
---	PROP. WATER SERVICE
---	PROP. STORM DRAIN

N.C.G.S. MONUMENT  
MORITZ  
N.A.D. 83 COORDINATES  
N = 351,308.534 FEET  
E = 2,655,096.212 FEET

SCALE: 1"=20'  
0 20 40

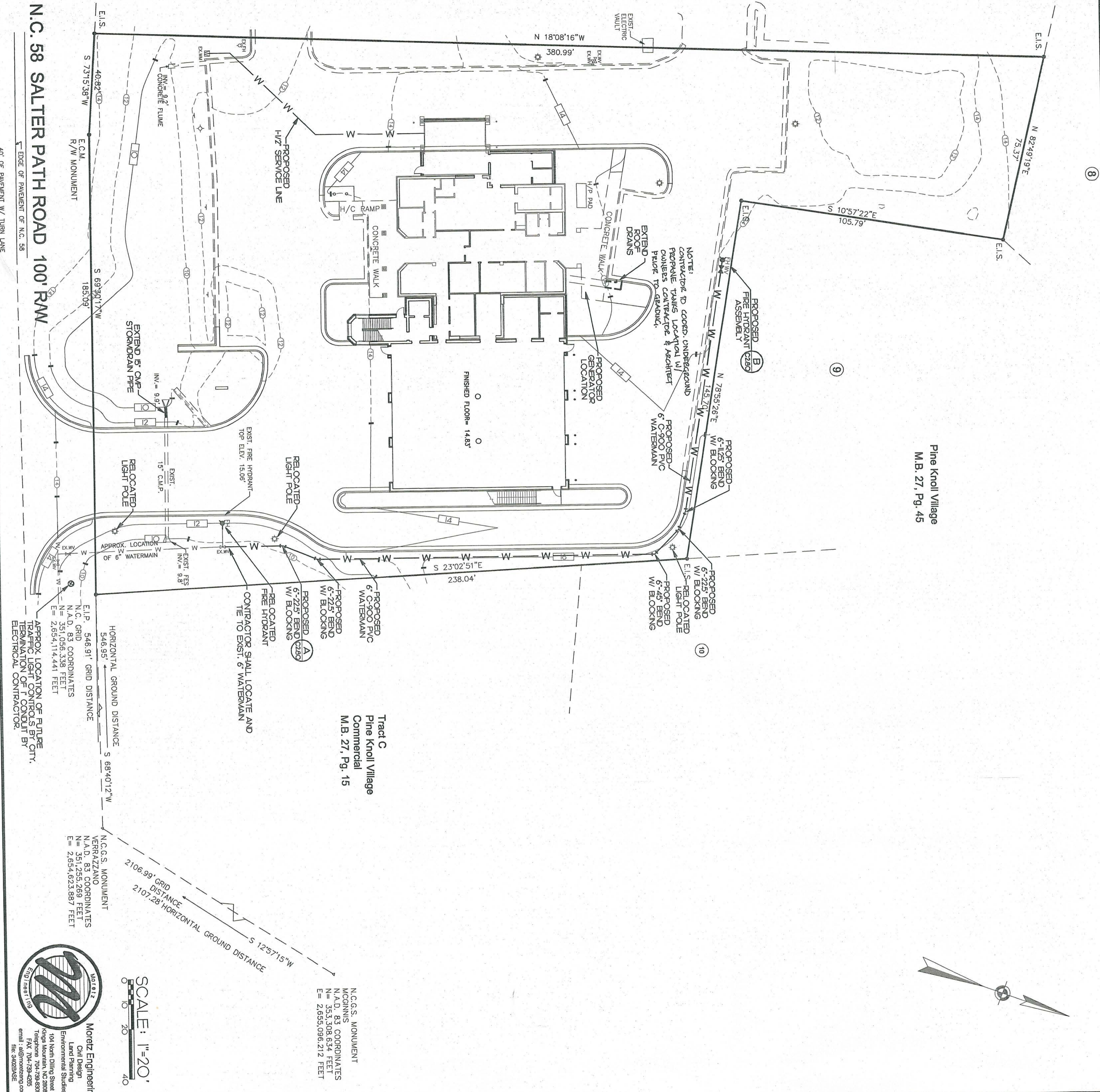


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email: amoritz@moritzeng.com  
file: 3/02/28/5A/E

Pine Knoll Village  
M.B. 27, Pg. 45

Tract A  
Pine Knoll Village  
Commercial  
M.B. 27, Pg. 15

Tract C  
Pine Knoll Village  
Commercial  
M.B. 27, Pg. 15

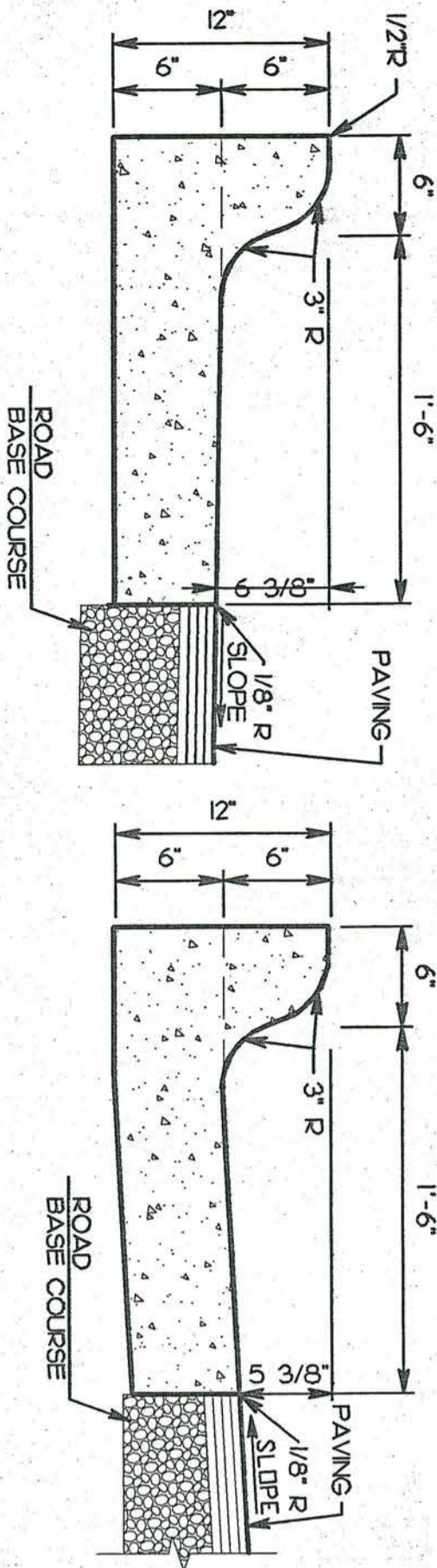


N.C. 58 SALTER PATH ROAD 100' R/W

40' OF PAVEMENT W/ TURN LANE



- NOTES:**
1. LOCATIONS OF SPILL AND CATCH TYPES OF CURB & GUTTER DETERMINED BY DIRECTION OF SLOPE OF ADJACENT PAVEMENT IN ACCORDANCE WITH GRADING PLAN SHEET 03.
  2. SLOPE FINISHED GRADE BEHIND CURB AT 2% MIN TOWARD OR AWAY FROM BACK OF CURB AS SHOWN ON GRADING PLAN.
  3. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS MAXIMUM, BUT SHALL MATCH LOCATIONS OF JOINTS MAINTAINED BY USE OF TEMPLATES OR TOWMED AT A MINIMUM DEPTH OF 1/2" FROM SURFACE. JOINTS WILL BE FINISHED ALL JOINT SEALER.
  4. EXPANSION JOINTS SHALL BE SPACED AT 90 FOOT INTERVALS, AND ADJACENT TO ALL MAJOR OBJECTS. JOINTS SHALL BE 1/2" JOINT FILLER WITH TOP 1" OF JOINT SEALER.
  5. CONCRETE SHALL BE 3600PSI.
  6. TOP 6" OF SUBGRADE BEHIND CURB & GUTTER SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.

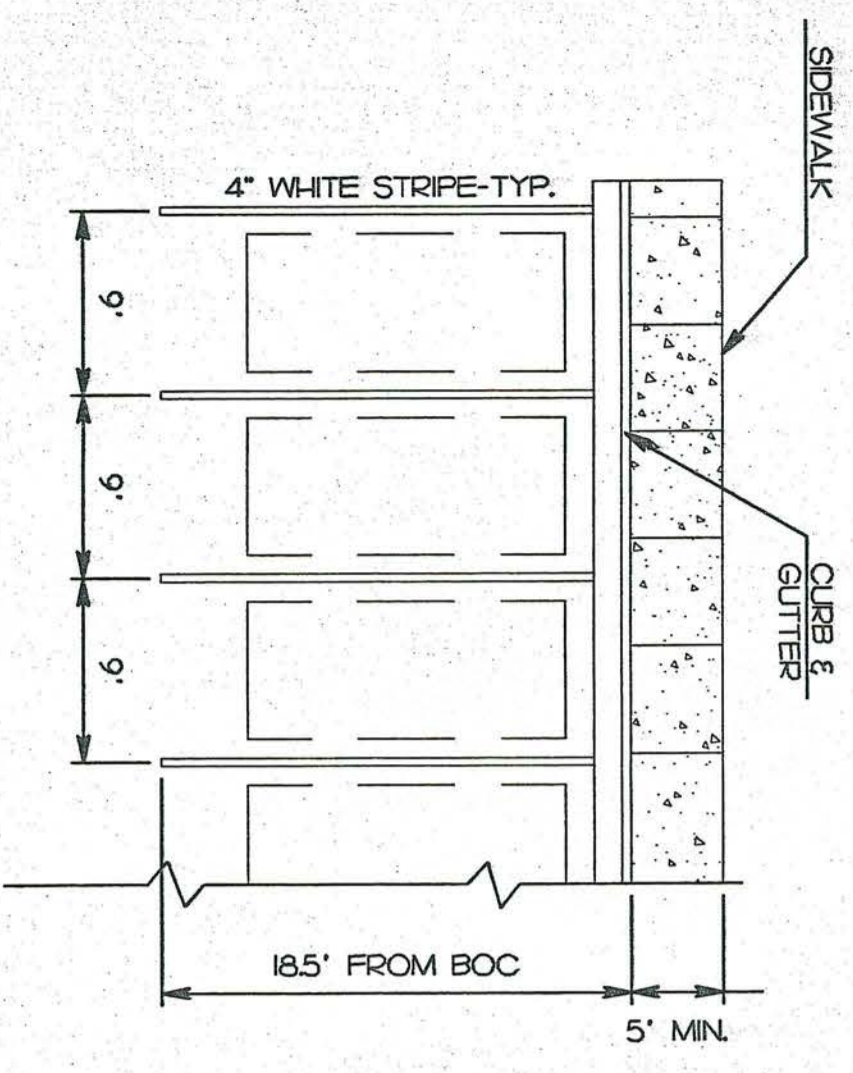


**A** SPILL & CATCH TYPE CURB & GUTTER DETAIL

SPILL TYPE  
CATCH TYPE

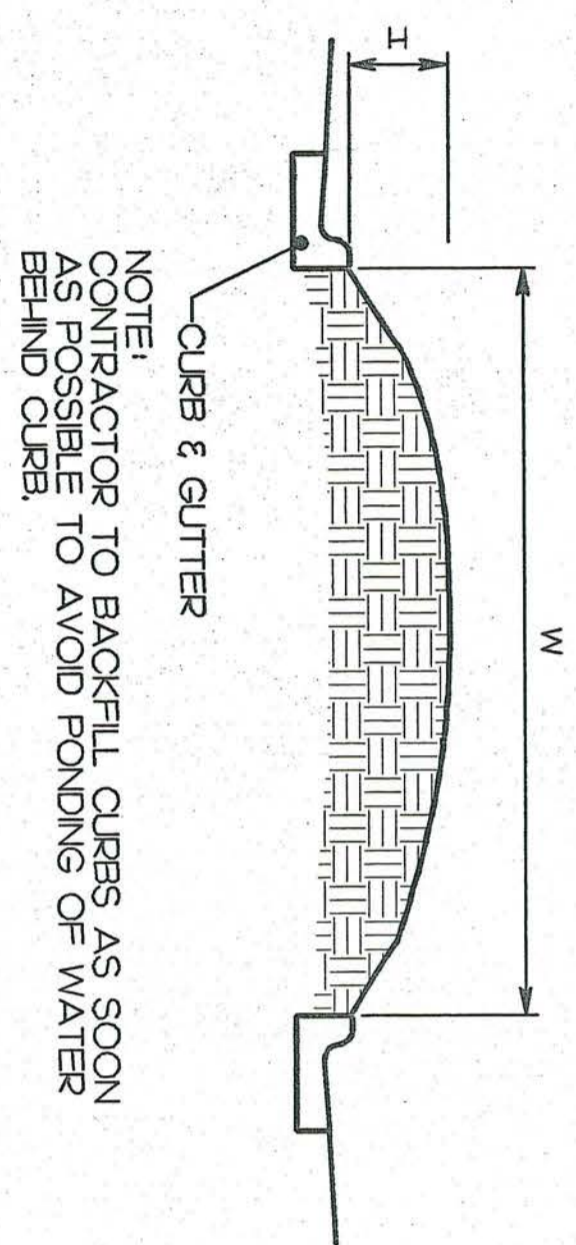
SCALE:NENTS

WIDTH (W)	HEIGHT (H)
0-5'	0.25'
6-10'	1.0'
11+	2.0'



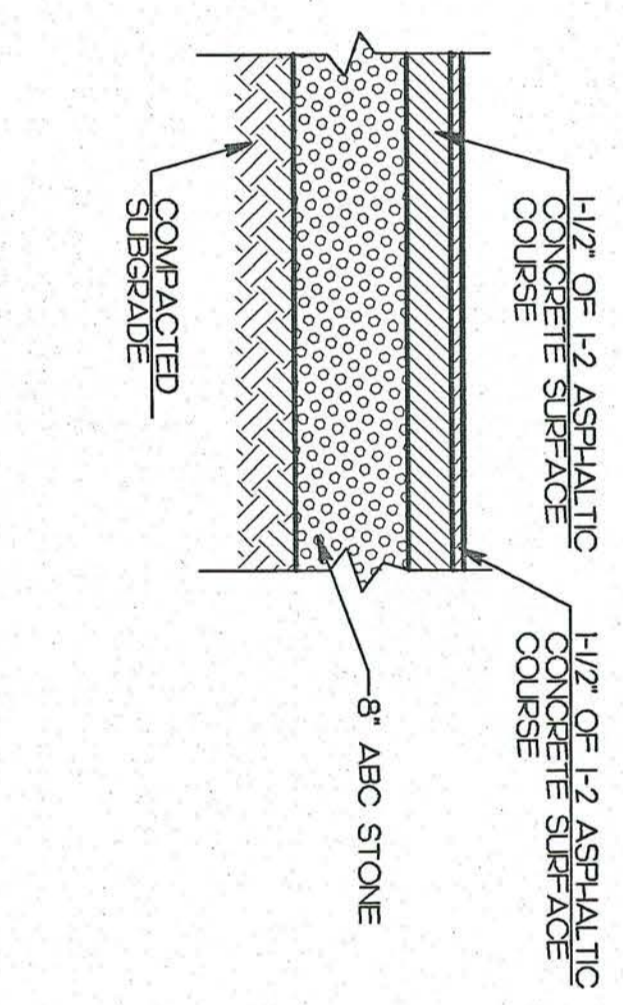
**C** TYPICAL STRIPING DETAIL

SCALE:NENTS



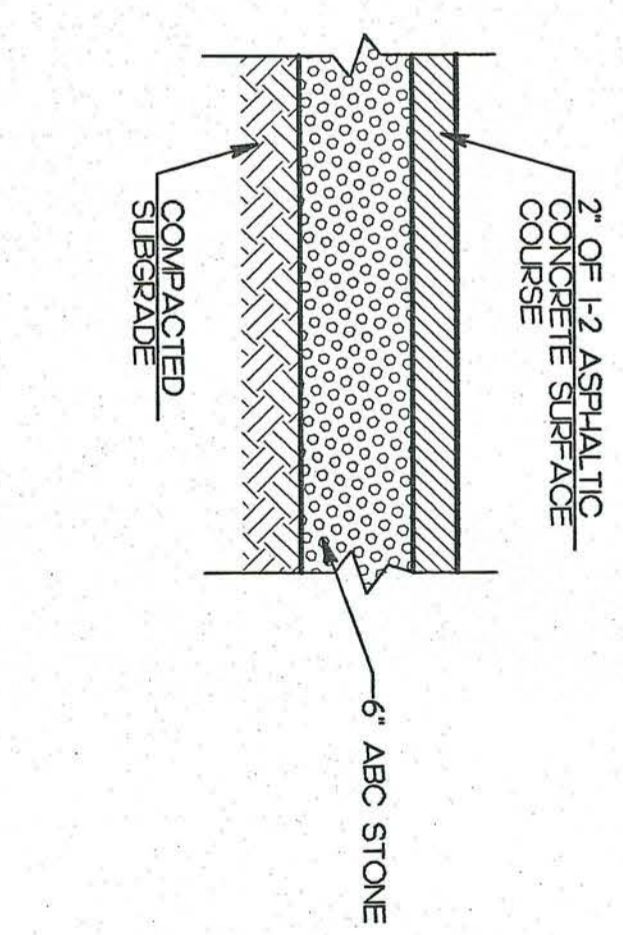
**D** TYPICAL ISLAND GRADING

SCALE:NENTS



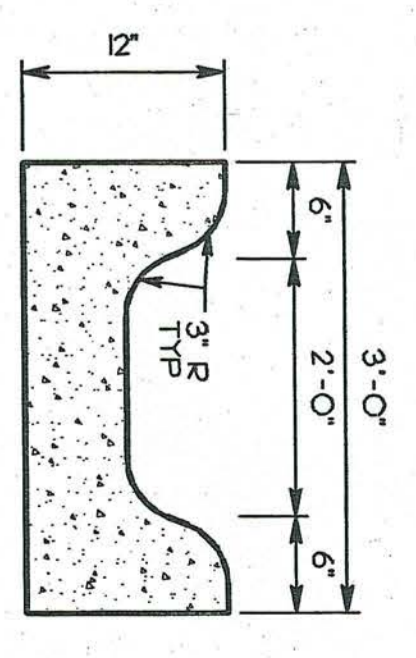
**E** HEAVY DUTY PAVEMENT DETAIL

SCALE:NENTS



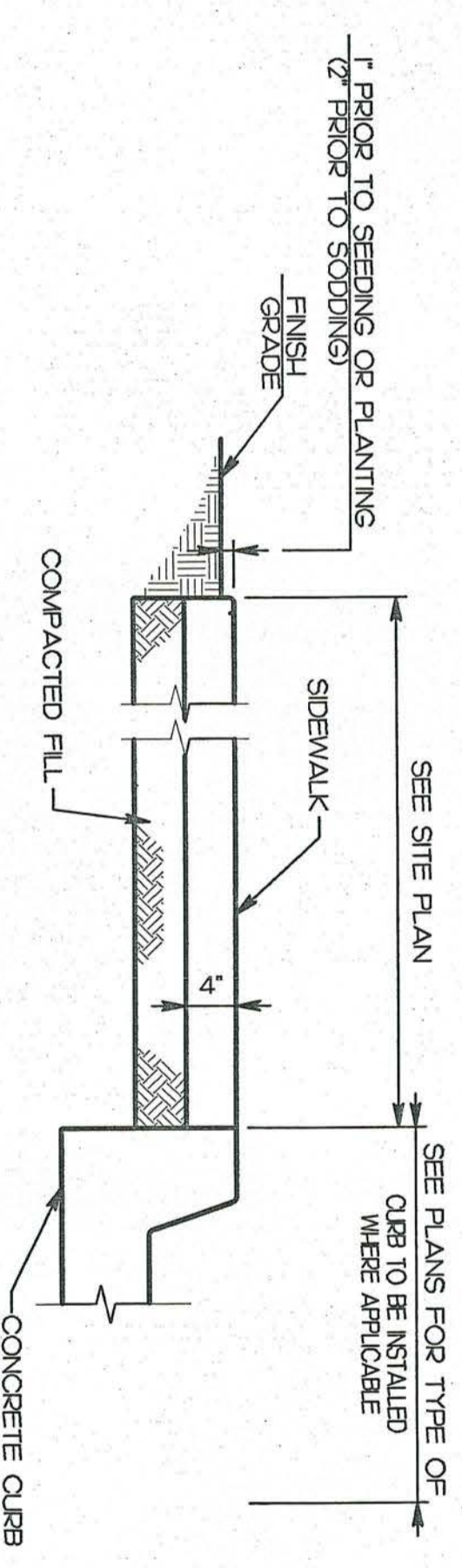
**F** LIGHT DUTY PAVEMENT DETAIL

SCALE:NENTS



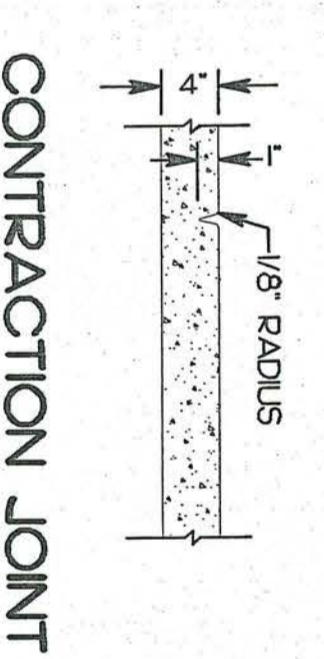
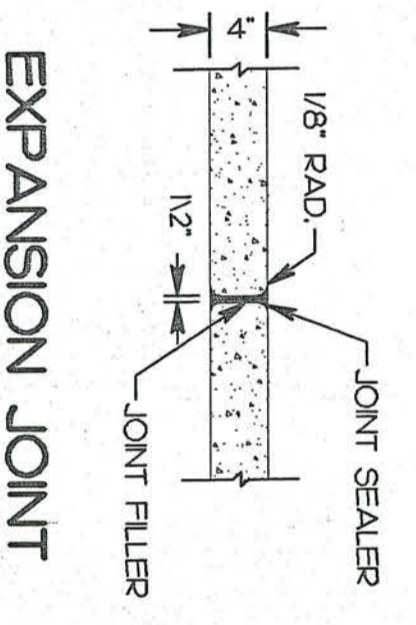
**G** CURB FLUME

SCALE:NENTS



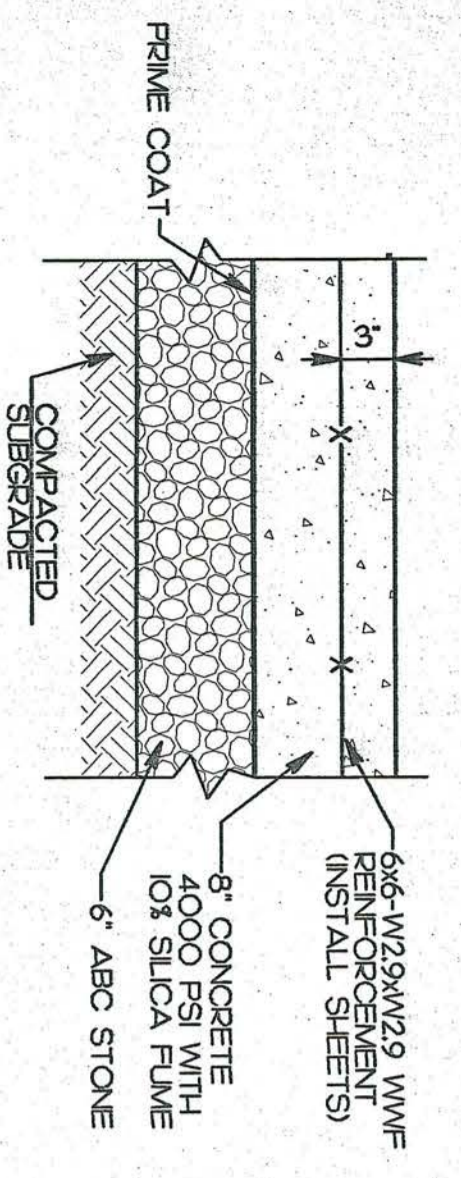
**B** SIDEWALK & EXPANSION JOINT DETAIL

SCALE:NENTS



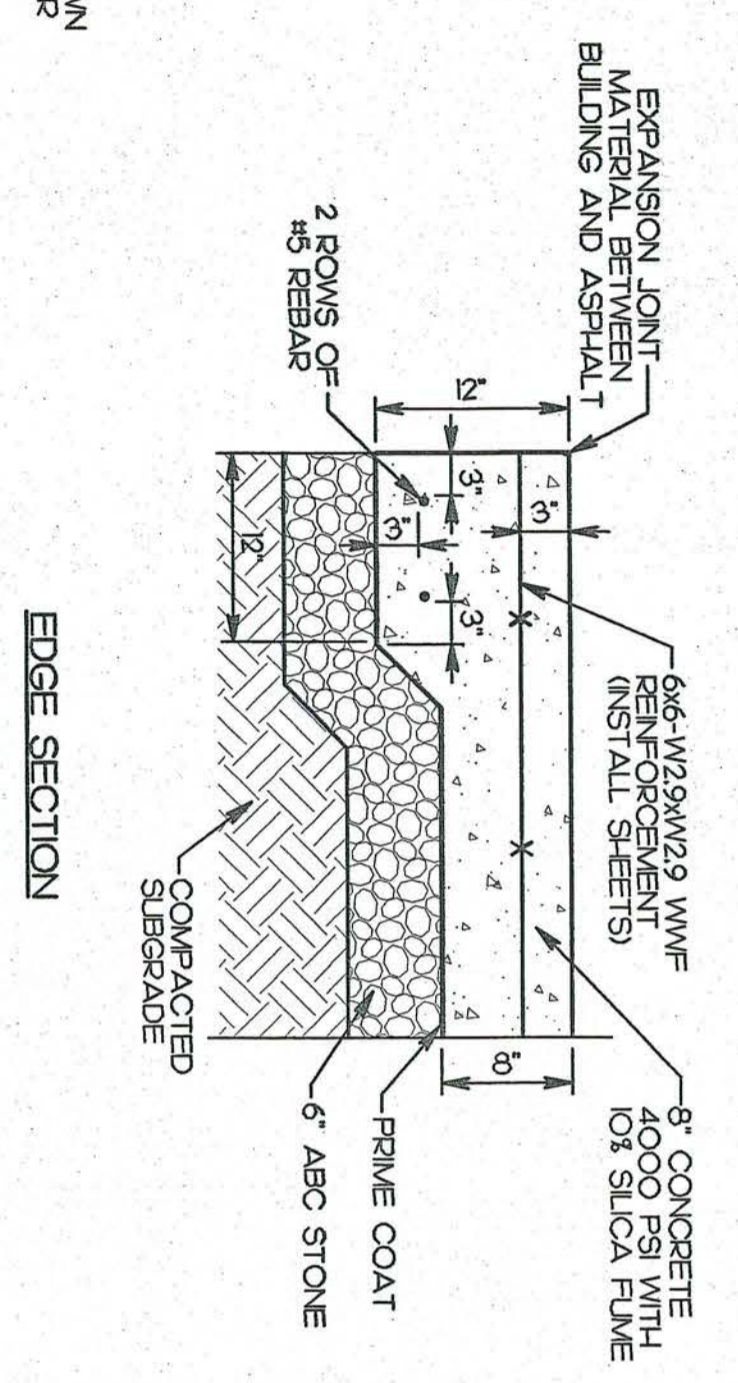
- NOTES:**
1. CONTRACTION JOINT DEPTH WITH 1/2" RAD. SHALL BE REQUIRED FOR ALL PAVEMENTS. AT LEAST ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 45' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY ROAD STRUCTURE INCLUDING PROPOSED OR EXISTING BUILDINGS.
  2. SIDEWALK AT DRIVEWAY ENTRANCES TO BE 6" THICK.
  3. WIDTH OF SIDEWALK ON THOROUGHFARE STREETS SHALL BE A MINIMUM OF 5'.
  4. CONCRETE SHALL BE 3600 PSI. N 28 DAYS.

1. ALL WELDED WIRE FABRIC SHALL BE INSTALLED AT DEPTH SHOWN THROUGH USE OF HIGH CHAIRS OR A SMALL BLOCK NO CLOSER THAN 4" ON CENTER.
2. NO WELDED WIRE FABRIC SHALL EXTEND UNDER KEYED CONSTRUCTION JOINTS.

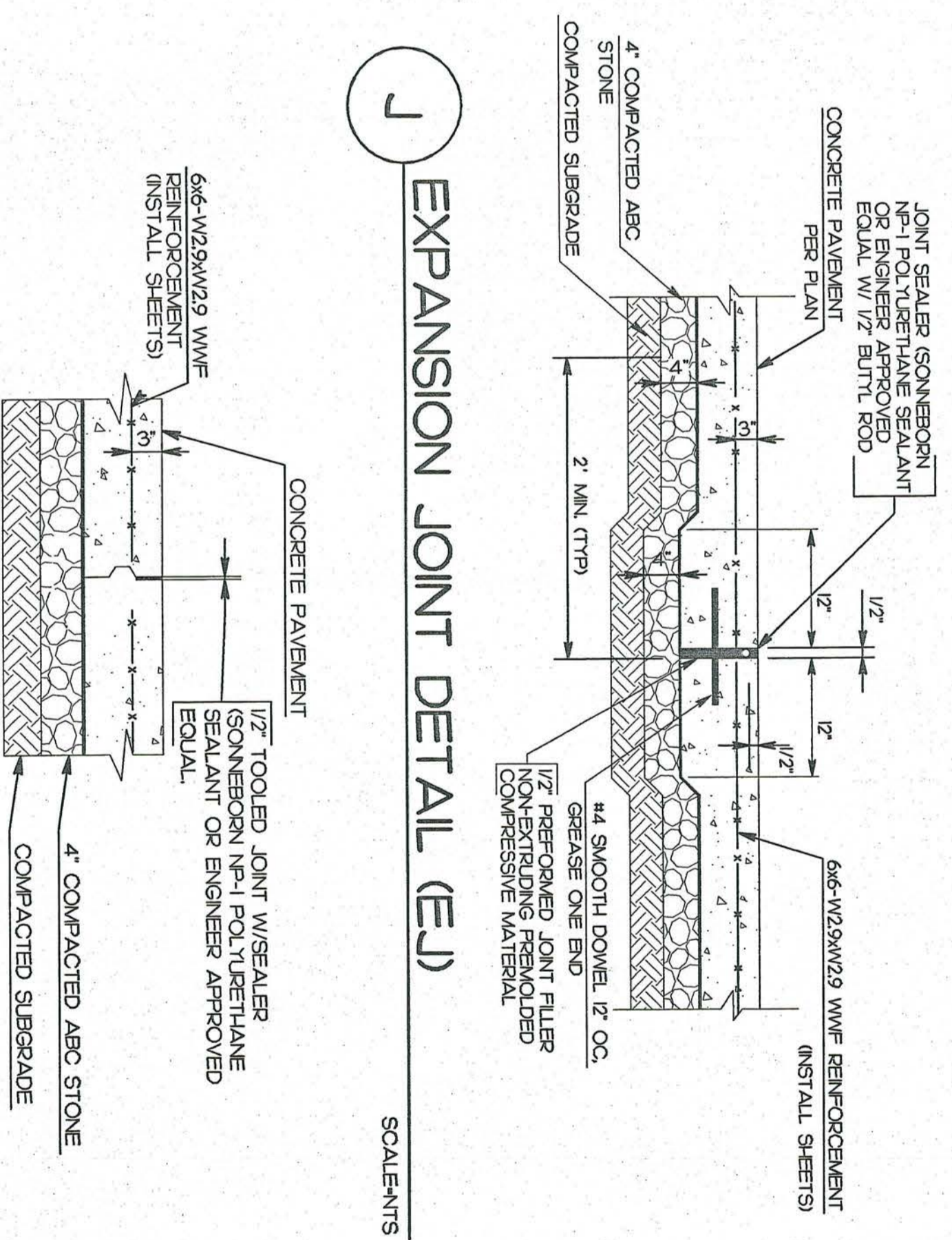


**H** 8" CONCRETE PAVEMENT DETAIL

SCALE:NENTS

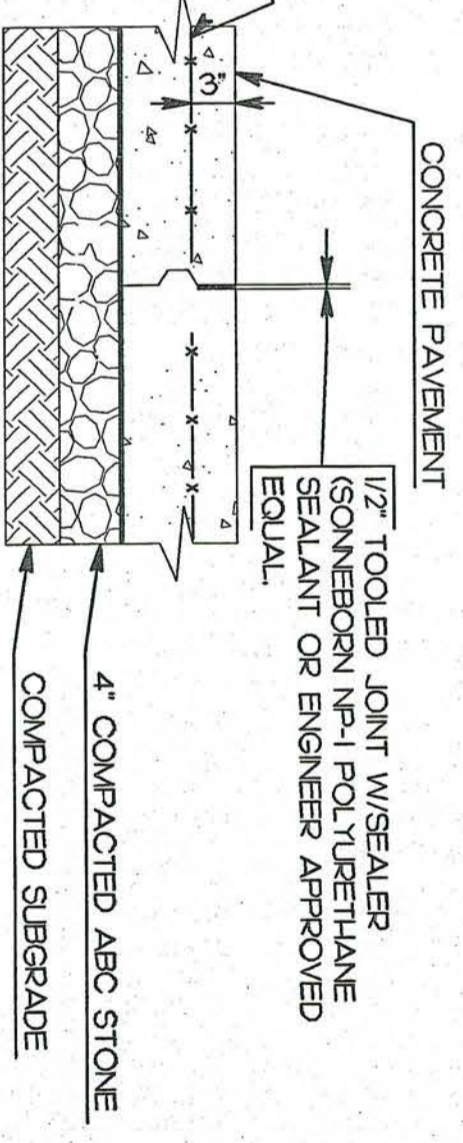


EDGE SECTION



**J** EXPANSION JOINT DETAIL (EJ)

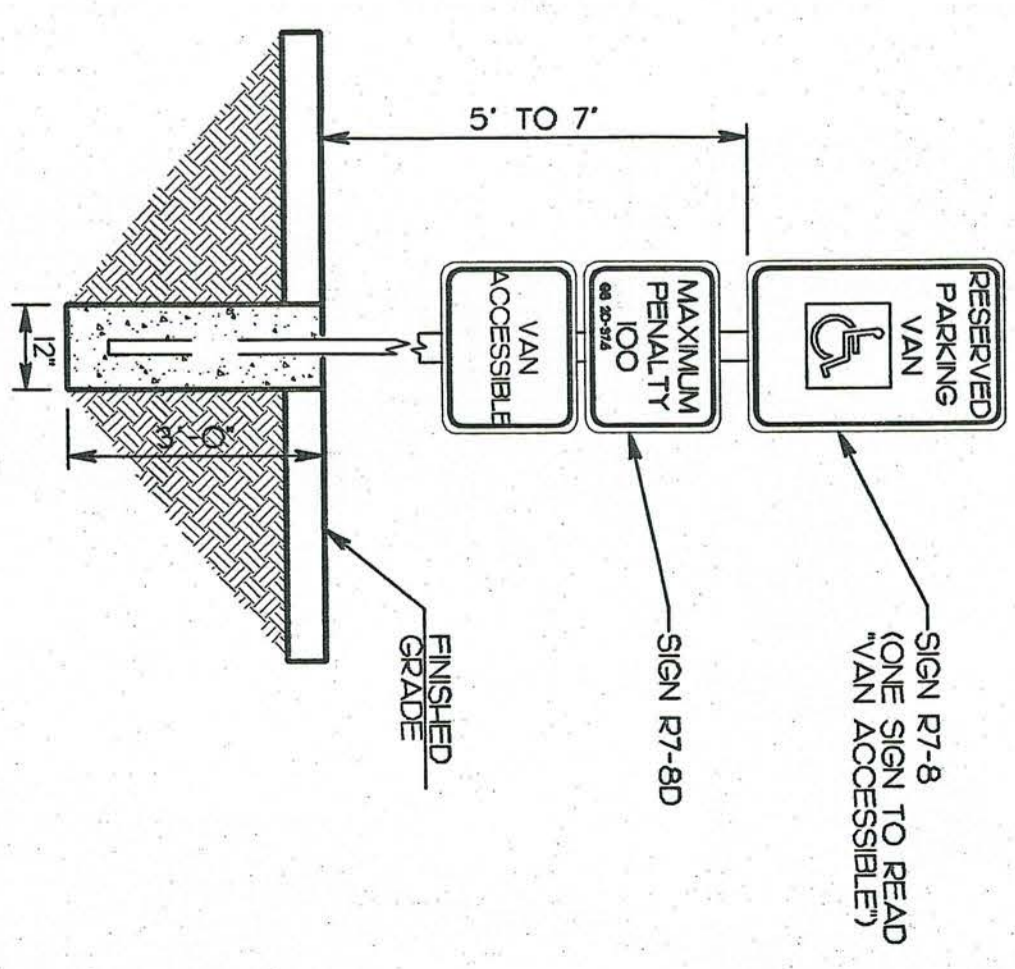
SCALE:NENTS



**K** KEYED CONSTRUCTION JOINT (KJ)

SCALE:NENTS

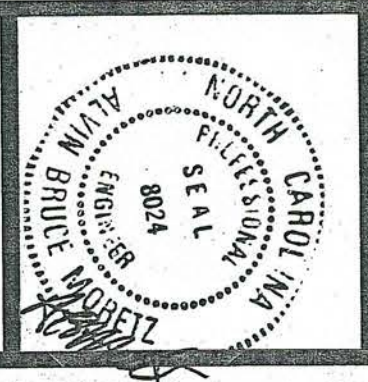
**L** HANDICAP SIGN - VAN ACCESSIBLE- DETAIL



SCALE:NENTS

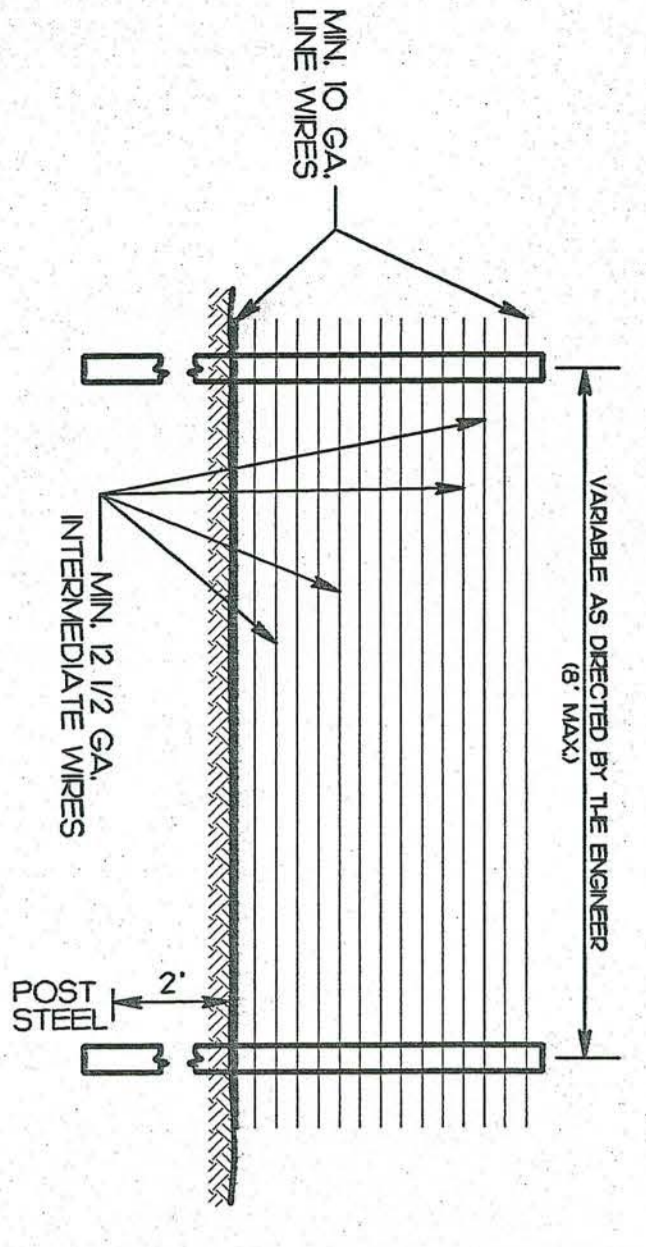


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Fax: 704.739.4555  
email: info@moritzeng.com  
tel: 3042531

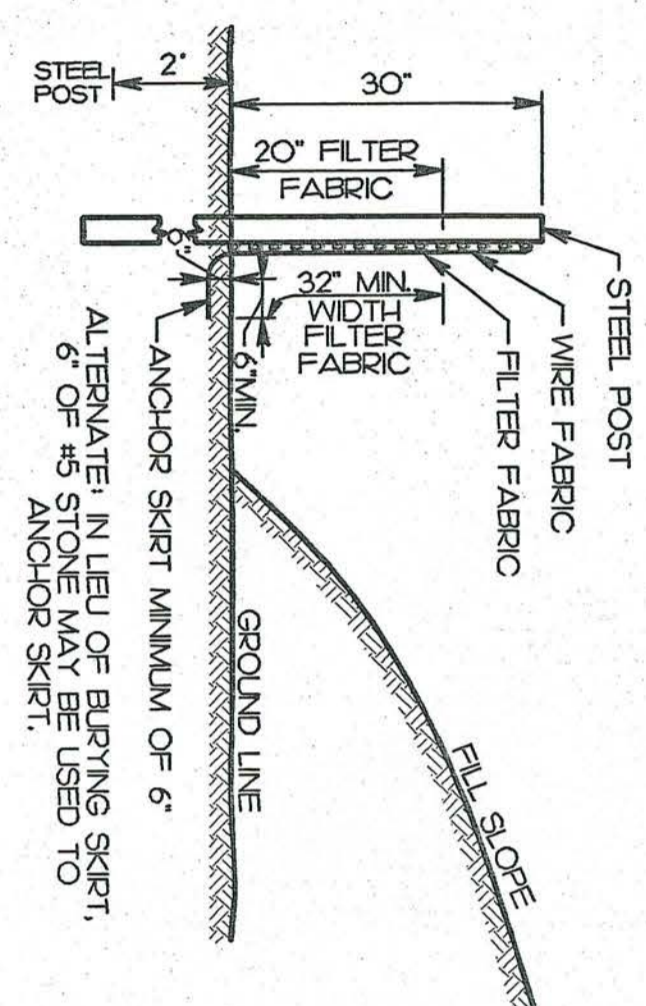




- GENERAL NOTES:
1. FENCE FABRIC SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
  2. FILTER FABRIC SHALL BE MRAFI 100 FABRIC OR EQUIVALENT.
  3. BURLAP CANNOT BE USED WHERE SILT FENCE IS TO REMAIN FOR STEEP SLOPES SHALT BE 4' HIGH.
  4. FASTENER ANGLE STEEL TYPE.



- MAINTENANCE NOTES:
1. FILTER BARBERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
  2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE PROJECT, THE FABRIC SHALL BE REPAIRED PROMPTLY.
  3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH APPROXIMATELY HALF THE HEIGHT OF THE BARBER.
  4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE REMOVED AND THE EXISTING GRADE REPAIRED AND SEEDED.



**A** TEMPORARY SILT FENCE

SCALE:NITS

**B** PERMANENT SEEDING SPECIFICATIONS AND DESIGN MANUAL

**C** SEDIMENT CONTROL FEATURES MAINTENANCE SCHEDULE

TABLE E - SEEDING NO. 40P FOR 1 WELL-DRAINED SANDY LOAMS TO VERY SANDY COASTAL PLAIN AND EASTERN EDGE OF PIEDMONT LOW TO MEDIUM-CARE LAWNS

SEEDING MIXTURE SPECIES	RATE (lb/acre)
CENTIPEDGRASS	0-20 lb/acre (SEED) or 33 bu/acre (SPRIGS)

SEEDING DATES: SPRIGGING CAN BE DONE THROUGH JULY WHERE WATER IS AVAILABLE FOR REGAIATION)

SOIL AMENDMENTS: APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS. OR APPLY 300 lb/acre 0-0-0.

MAINTENANCE: SPARINGLY 20 lb/acre NITROGEN IN SPRING WITH NO PHOSPHOROUS. CENTIPEDGRASS CANNOT TOLERATE HIGH PH OR EXCESS FERTILIZER.

TABLE A.01A - LATER WINTER & EARLY SPRING SEEDING MIXTURE

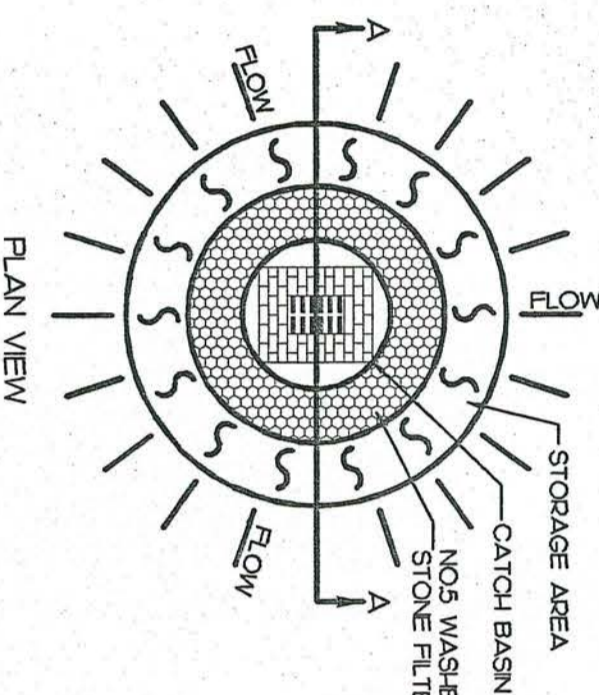
SEEDING MIXTURE SPECIES	RATE (lb/acre)
PTE (GRASS)	120
ANN PEDICELLATA	
FLAN PEDICELLATA	
FLAN KOREANI (MOUNTAINS)	50

SOIL AMENDMENTS: FOLLOW RECOMMENDATION OF SOIL TEST OR APPLY 750 lb/acre 0-0-0 FERTILIZER.

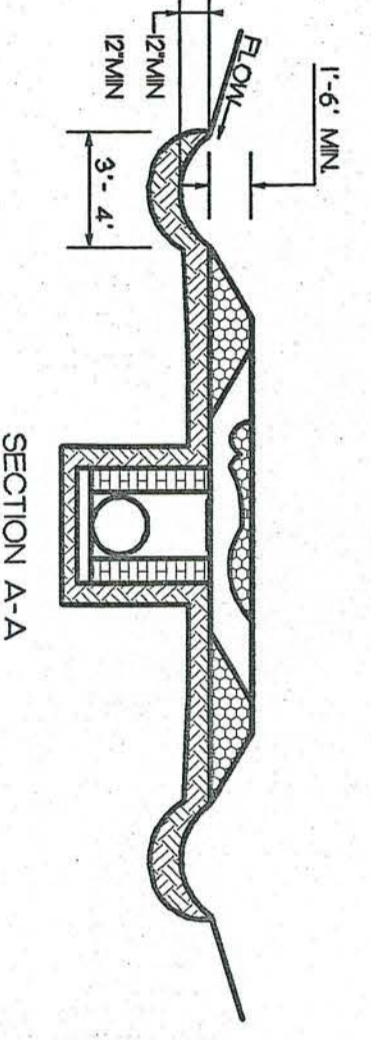
MAINTENANCE: GROWTH IS NOT FULLY ADEQUATE RESEED, REFERILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

**D** TEMPORARY SEEDING SPECIFICATIONS AND DESIGN MANUAL

**E** STORM INLET SEDIMENT TRAP



- NOTES:
1. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS TO 1/2 THE DESIGN DEPTH OF THE TRAP.
  2. THE STRUCTURE SHALL BE INSPECTED AS NEEDED.
  3. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION SHALL BE MINIMIZED.
  4. THE SEDIMENT TRAP SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE PROJECT IS STABILIZED.



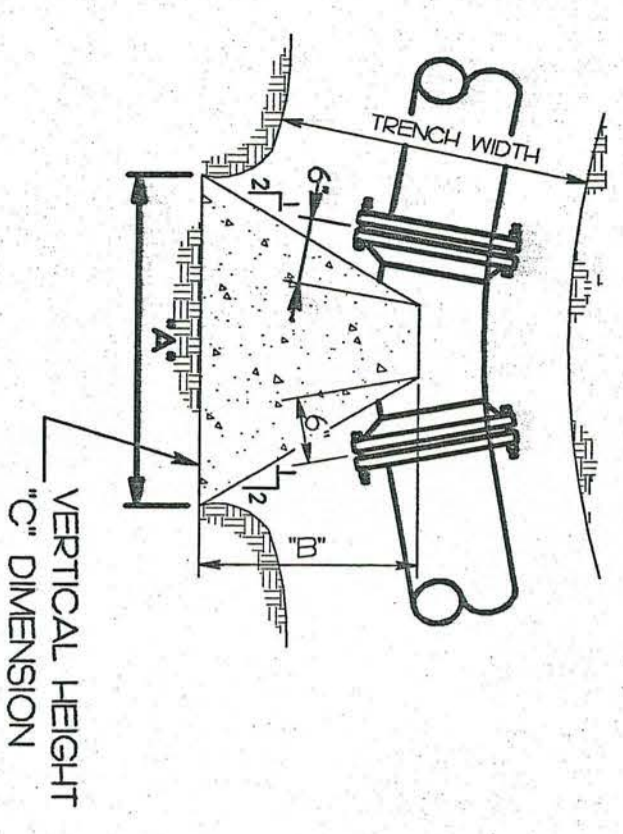
SCALE:NITS STD # 300.6



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email: en@nordzeng.com  
REG. 34025901



NOTE:  
1. CONCRETE BLOCKING IS TO BE FORMED TO INSURE ACCESSIBILITY TO FITTINGS AND POURED AGAINST UNDISTURBED EARTH  
2. ALL CONCRETE TO BE 3000 PSI



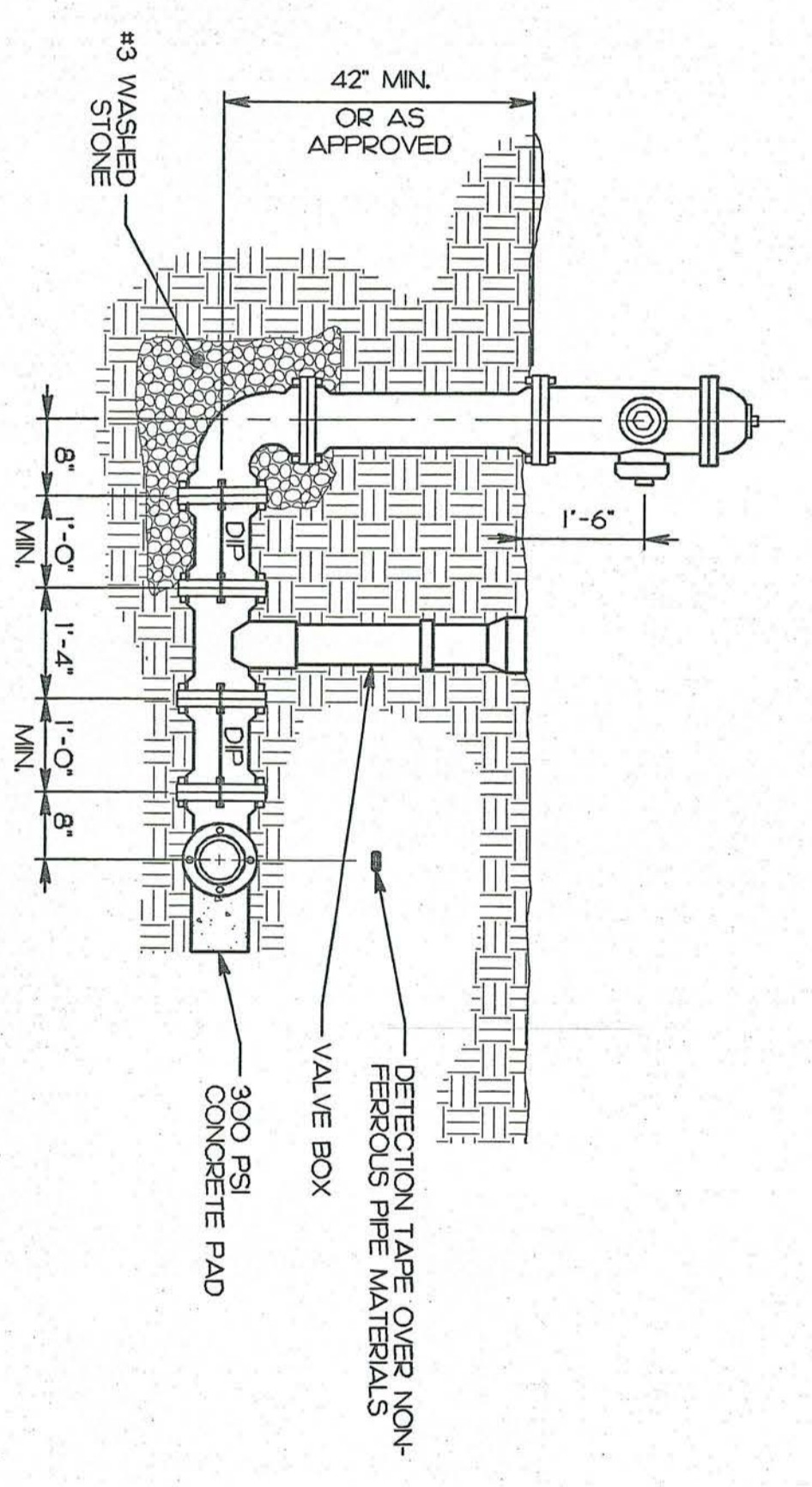
NOMINAL DIAMETER	A	B	C	TRENCH WIDTH
UNDER 4"	1'-0"	1'-6"	1'-0"	2'-0"
4"	1'-0"	1'-6"	1'-0"	2'-4"
6"	2'-0"	1'-6"	1'-0"	2'-6"
8"	3'-0"	1'-6"	1'-6"	2'-8"
10"	3'-0"	2'-0"	2'-0"	2'-10"
12"	4'-0"	2'-4"	2'-0"	3'-0"

**A** 22-1/2" AND 45° BEND BLOCKING DETAIL

SCALE:N/T/S

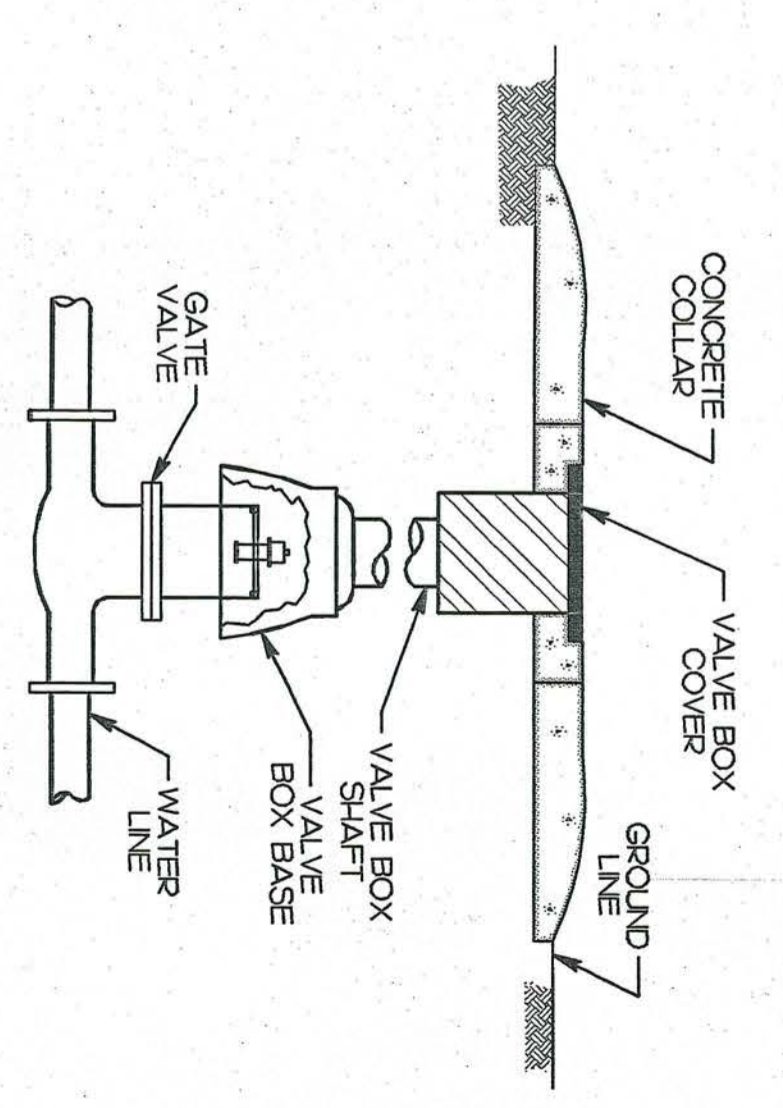
**B** FIRE HYDRANT DETAIL

SCALE:N/T/S



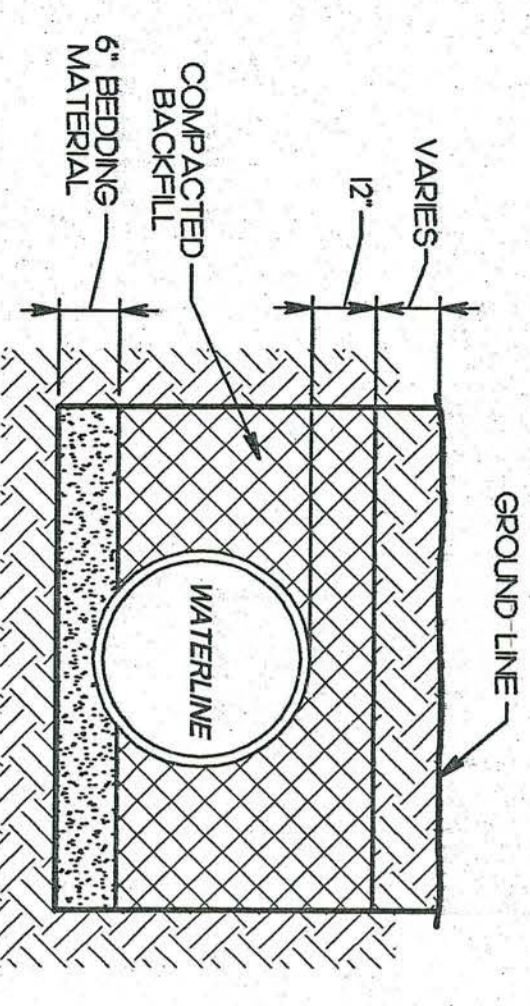
**C** GATE VALVE AND VALVE BOX DETAIL (TYPICAL)

SCALE:N/T/S



**NOTES:**

1. PIPE SHALL BE BEDDED IN SAND, GRAVEL, OR CRUSHED STONE TO DEPTH OF 6\"/>
- 2. ADDITIONAL BACKFILL SHALL BE PLACED IN MAXIMUM 6\"/>

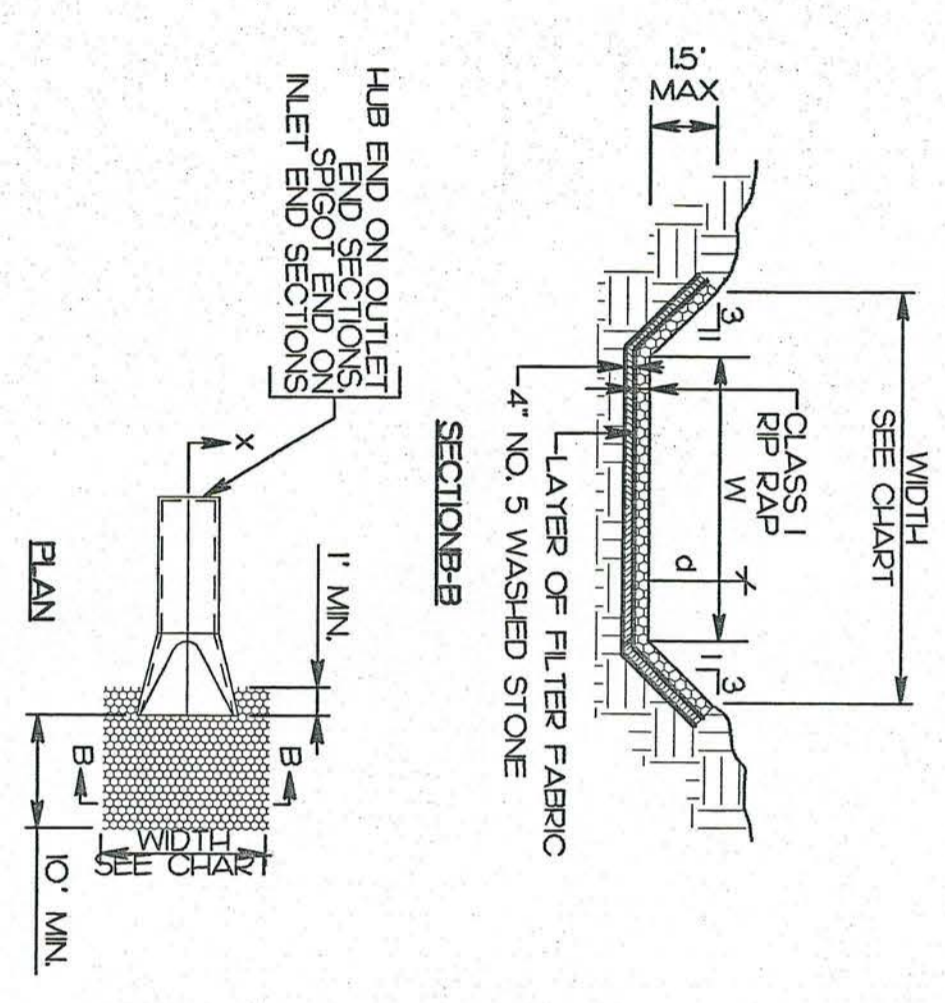


**D** LAYING CONDITIONS FOR PVC (TYPICAL)

SCALE:N/T/S

**E** FLARED END SECTION W/ RIP RAP DETAIL

SCALE:N/T/S



1. ALL SUBGRADE FOR STRUCTURE TO BE COMPACTED TO 95% OR GREATER.
2. SLOPE SHALL BE AS SHOWN ON THE PLANS BUT NOT LESS THAN TWO THIRDS THE PIPE DIAMETER.
3. THE SURFACE OF THE RECEIVING CHANNEL SHALL BE UNDERCUT SO THAT THE INVERT OF THE APRON SHALL BE AT THE SAME GRADE (FLUSH) WITH THE SURFACE OF THE RECEIVING CHANNEL.
4. THE APRON SHALL HAVE A CUTOFF OR TOE WALL AT DOWNSTREAM END.
5. APRON DIMENSIONS AND PREPARE SIZE OR CONCRETE THICKNESS MUST BE AS SHOWN ON THE PLANS.
6. THE WIDTH OF THE APRON SHALL BE EQUAL TO THE BOTTOM WIDTH OF THE RECEIVING CHANNEL.
7. THE FALLOWS OF FILL EITHER LOOSE OR COMPACTED SHALL BE PLACED IN THE APRON WITH THE HORIZONTAL ALIGNMENT OF THE APRON WILL BE PERMITTED.
8. BOTTOM GRADE SHALL MATCH SLOPE OF CHANNEL.



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RENOVATIONS AND ADDITIONS FOR THE  
**NEW PUBLIC SAFETY BUILDING**  
Pine Knoll Shores, North Carolina

**UTILITY  
DETAILS**

sheet  
**C2.80**

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Project No.	<b>999</b>
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Revisions	



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- COORDINATION: STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION AND COORDINATION WITH ALL OTHER CONTRACT DOCUMENTS.
- DISCREPANCIES: THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS OR OF ANY VARIATIONS NECESSARY IN ORDER TO CONFORM TO THE DRAWINGS AND REGULATIONS. UPON RECEIPT OF SUCH INFORMATION, THE ARCHITECT SHALL BE RESPONSIBLE FOR THE REVISIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVISIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVISIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
- EXISTING CONDITIONS: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE JOB SITE. ANY DISCREPANCIES OR VARIATIONS FROM THE CONDITIONS SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING.
- DRAWING SCALES: THESE DRAWINGS ARE PREPARED TO THE SCALES NOTED. HOWEVER, DIMENSIONS ARE NOT TO BE DERIVED BY SCALING THE PLANS, SECTIONS OR DETAILS. IF THERE IS ANY QUESTION ABOUT DETAILS OR DIMENSIONS, CONTACT THE ARCHITECT FOR CLARIFICATION PRIOR TO SUBMITTING SHOP DRAWINGS.
- SHOP DRAWINGS: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREPARE AND PROVIDE ALL SHOP DRAWINGS, INCLUDING SHOP DRAWINGS FOR REBAR AND BRACING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREPARE AND PROVIDE ALL SHOP DRAWINGS, INCLUDING SHOP DRAWINGS FOR REBAR AND BRACING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREPARE AND PROVIDE ALL SHOP DRAWINGS, INCLUDING SHOP DRAWINGS FOR REBAR AND BRACING.
- SHOP DRAWINGS: SHOP DRAWINGS ARE AN AID FOR FIELD AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL MAKE SURE SUPERSEDED CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.
- SHOP DRAWING REVIEW: THE CONTRACTOR SHALL SUBMIT THE ARCHITECT WITH A SHOP DRAWING PRIOR TO ANY FABRICATION OR PLACEMENT OF MATERIALS. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO FABRICATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW OF SHOP DRAWINGS BY THE ARCHITECT. THE REVIEW OF SHOP DRAWINGS BY THE ARCHITECT IS NOT A GUARANTEE OF THE CORRECTNESS OF THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW OF SHOP DRAWINGS BY THE ARCHITECT. THE REVIEW OF SHOP DRAWINGS BY THE ARCHITECT IS NOT A GUARANTEE OF THE CORRECTNESS OF THE DRAWINGS.

**FOUNDATIONS:**

- FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS IN THE REPORT EXPANSION, PINE KNOLL SHORES, NORTH CAROLINA, LAY NO. 10000-21859 DATED MAY 3, 2002.
- PRELIMINARY DESIGN IS BASED ON A NET ALLOWABLE SOIL BEARING CAPACITY OF 2500 PSF. SOIL BEARING CAPACITY SHALL BE DETERMINED BY STANDARD PENETRATION TESTS OR NEWLY PLACED CONTROLLED STRUCTURAL FILL COMPACTED TO 95 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
- THE SOIL ENGINEER OR HIS REPRESENTATIVE SHALL INSPECT ALL SUBGRADE WORK PRIOR TO THE PLACEMENT OF ANY REINFORCING STEEL OR CONCRETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSPECTION AND RECORDING OF THE PROCEDURES NOTED IN THE CONTRACT DOCUMENTS.

**CONCRETE:**

- CONCRETE PLACEMENT AND QUALITY: PER RECOMMENDATIONS IN ACI SP-5.
- DEBRIS: REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.
- SEGREGATION OF AGGREGATES: DO NOT DROP CONCRETE THROUGH REINFORCING STEEL SO AS TO CAUSE SEGREGATION OF AGGREGATES.
- REINFORCING: SECURELY POSITION ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING DOWELS, BOLTS, ANCHORS, PIPES AND SLICES IN THE FORMS BEFORE PLACING CONCRETE.
- CONSTRUCTION JOINTS: OBTAIN THE ENGINEER'S APPROVAL OF JOINT LOCATION IN ALL SLABS, BEAMS AND SHEAR WALLS. REMOVE LANTANA AND CLEAN SURFACE OF CONCRETE CONSTRUCTION JOINTS.
- PIPES: DO NOT EMBED PIPES OTHER THAN ELECTRICAL CONDUITS. IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE ARCHITECT, MAXIMUM PIPE SIZE SHALL BE 1/8 OF THE SLAB THICKNESS AND DIAMETER SHALL NOT EXCEED THE STRENGTH OF THE MEMBER. ANY PIPES OF ALUMINUM ARE PROHIBITED IN STRUCTURAL CONCRETE.
- WELDED WIRE FABRIC: WELDED WIRE FABRIC CONFORMING TO ASTM A42 AND A65.
- REBAR GRADERS: ALL REINFORCING STEEL TO BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A63 OR A60.
- REBAR COVER: ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS CLEARANCE TO CENTER OF STEEL. MINIMUM REBAR COVER SHALL BE AS FOLLOWS:

LOCATION	MIN. COVER CLEAR	TOLERANCES
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"	-3/8"
EXPOSED TO EARTH OR WEATHER: NO. 5 AND SMALLER BARS	1 1/2"	-3/8"
NO. 6 AND LARGER BARS	2"	-3/4"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:	3/4"	-1/8"
STRUCTURAL SLABS AND WALLS	3/4"	-1/8"
BEAMS AND COLUMNS (PRIMARY REINFORCEMENT, TIES, STRIPPED AND SPIRALS)	1 1/2"	-3/8"
SLABS ON GRADE	1 1/2"	-1/2"

- TOLERANCES OF REBAR PLACEMENT: TOLERANCE FOR LONGITUDINAL REBAR SHALL BE PLUS OR MINUS 2 INCHES EXCEPT AT DISCONTINUING ENDS OF MEMBERS WHERE TOLERANCES SHALL BE PLUS OR MINUS 1/2 INCH.
- CONCRETE QUALITY:

CONCRETE USE	STRENGTH SLUMP	AIR	AGGREGATE SIZE	AGGREGATE TYPE	NO. OF TESTS
FOUNDATIONS	3000	4%	1 1/2"	NORMAL WT	4
SLAB-ON-GRADE	4000	4%	1 1/2"	NORMAL WT	4
SUPPORTING SLAB	3000	4%	1 1/2"	LIGHT WT	4

DO NOT ADD WATER TO CONCRETE MIX AT SITE UNLESS APPROVED BY ARCHITECT.
- CONCRETE: NORMAL WEIGHT CONCRETE SHALL HAVE A MINIMUM UNIT WEIGHT OF 145 POUNDS PER CUBIC FOOT. LIGHT WEIGHT CONCRETE SHALL HAVE A MAXIMUM UNIT WEIGHT OF 120 POUNDS PER CUBIC FOOT.

**CONCRETE (CONTINUED):**

- AGGREGATE: NORMAL WEIGHT AGGREGATE CONFORMING TO ASTM C39
- AGGREGATE SIZE CONFORMING TO:
  - 1 1/2" ASTM C57
  - 1 1/2" ASTM C467
- CEMENT: TYPE I.
- CONCRETE AGE: NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY ARCHITECT.

**CONCRETE MASONRY:**

- CODES: MASONRY DESIGN AND CONSTRUCTION IS BASED ON AND SHALL CONFORM TO THE PROVISIONS OF ACI 530-99/ASCE 5-99/TMS 402/99.
- MASONRY: CONCRETE UNITS CONFORMING TO:
  - 1. ASTM C90 FOR HOLLOW LOAD BEARING UNITS
  - 2. ASTM C91 FOR SOLID LOAD BEARING UNITS
  - 3. MINIMUM 7m - 800 PSI
- MORTAR AND GROUT: USE MORTAR FOR MASONRY CONFORMING TO ASTM C270 TYPE S. GROUT SHALL CONFORM TO ASTM C476, MIN 19 - 2000 PSI.
- REBAR SHALL CONFORM TO ASTM A-63 GRADE 60.
- ALL FILLED CELL MASONRY TO BE BUILT TO PRESERVE THE UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS TO BE FILLED. LAY UNITS WITH FULL FACE MORTAR BEDS AND CROSS WEBS ADJACENT TO VERTICAL CORERS TO BE FILLED.
- FILL CELLS WITH GROUT TO MAXIMUM OF 4 FEET. IF TOTAL POUR IS GREATER THAN 4 FEET POUR IN 4 FOOT LIFTS STOPPING 1/2" BELOW TOP OF UPPERMOST UNIT FOR CONSTRUCTION JOINTS.

**STRUCTURAL STEEL:**

- CODES: STRUCTURAL STEEL IS DESIGNED, AND IS TO BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH:
  - a. 1992 AISC LRP SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS
  - b. 1992 AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
  - c. 1985 SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
- STEEL: STRUCTURAL STEEL IS TO CONFORM TO THE FOLLOWING SPECIFICATIONS:
  - a. ASTM A992 (Fy - 50 KSI)
  - b. OTHER SHAPES, BARS AND PLATES - ASTM A572 (Fy - 50 KSI)
  - c. STRUCTURAL TUBING - ASTM A500 GRADE B (Fy - 46 KSI)
- WELDING: ALL WELDING IS TO CONFORM TO A515/ASME VIII DIV 5 STRUCTURAL WELDING CODE USING E70XX ELECTRODES. ALL WELDING IS TO BE DONE BY QUALIFIED WELDERS UNDER ANSII/AWS D11. PROVIDE EVIDENCE OF QUALIFICATION TO ARCHITECT.
- BOLTS: ALL BOLTED CONNECTIONS ARE TO BE MADE USING 3/4" A325 BOLTS IN BEARING TYPE CONNECTIONS UNLESS SHOWN OTHERWISE ON NOTED OTHER-DRAWINGS. ANCHOR RODS ARE TO BE OF A36 MATERIAL. ALL ANCHOR RODS ARE TO BE SET WITH A TEMPORARY PRIOR TO POURING CONCRETE.

**STEEL JOISTS & JOIST GIRDERS:**

- SPECIFICATIONS: STEEL JOISTS AND JOIST GIRDERS ARE TO BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH:
  - a. STEEL JOIST INSTITUTE STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS, K-SERIES EFFECTIVE SEPTEMBER 1, 1994.
  - b. STEEL JOIST INSTITUTE STANDARD SPECIFICATIONS FOR JOIST GIRDERS EFFECTIVE SEPTEMBER 1, 1994.
- BRIDGING: BRIDGING IS REQUIRED AND SHALL CONSIST OF HORIZONTAL OR VERTICAL BRIDGING AS REQUIRED BY THE SPECIFICATIONS. SIZE OF BRIDGING SHALL BE PER S.I.J. SPECIFICATIONS. DO NOT USE BRIDGING FOR HANGING CEILING, MECHANICAL DUCTS OR EQUIPMENT.
- CAMBER: PROVIDE MINIMUM CAMBER IN JOISTS IN ACCORDANCE WITH S.I.J. SPECIFICATION SECTION 4.7 & 103.6 UNLESS A DIFFERENT CAMBER IS SHOWN ON THE DRAWINGS.
- UP/LIFT: JOIST MANUFACTURER SHALL DESIGN JOISTS AND BRIDGING FOR UP/LIFT. NET UP/LIFT FORCE IS 30 PSF.
- WELDING: ALL WELDING IS TO CONFORM TO ANSII/AWS D11 STRUCTURAL WELDING CODE USING E70XX ELECTRODES. ALL WELDING IS TO BE DONE BY QUALIFIED WELDERS UNDER ANSII/AWS D11. PROVIDE EVIDENCE OF QUALIFICATION TO ARCHITECT.
- BOLTS: ALL BOLTED CONNECTIONS ARE TO BE MADE USING 3/4" A325 BOLTS IN BEARING TYPE CONNECTIONS UNLESS SHOWN OTHERWISE ON NOTED OTHER-DRAWINGS. A307 BOLTS MAY BE USED FOR DETENTION BOLTS.

**METAL DECK:**

- SPECIFICATIONS: THE DESIGN, FABRICATION AND ERECTION OF METAL DECK SHALL BE IN ACCORDANCE WITH THE DESIGN AND SPECIFICATIONS OF METAL DECK COMMENTARIES FOR COMPOSITE FLOOR DECK, NON-COMPOSITE STEEL FORM DECK AND STEEL ROOF DECK AS APPLICABLE.
- SUPPORT: ERECT ALL DECK WITH A MINIMUM THREE SPAN CONDITION. SUPPORTS SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL. SUPPORTS SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL.
- OPENINGS: PROVIDE AN ANGLE FRAME FOR ALL OPENINGS GREATER THAN 12" X 12" OR 12" ROUND IN THE DECK UNLESS NOTED OTHERWISE ON THE DRAWINGS. PROVIDE AN ANGLE FRAME FOR ALL OPENINGS GREATER THAN 12" X 12" OR 12" ROUND IN THE DECK UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- ROOF DECK: STEEL ROOF DECK IS TO BE 1/2" 22 GAUGE TYPE B DECK, GALVANIZED. CONNECT TO SUPPORTS PER DETAIL 723/24.
- FLOOR DECK IS TO BE 2" 20 GAUGE GALVANIZED COMPOSITE DECK. CONNECT TO SUPPORTS WITH 5/8" PLDLE WELDS AT 120° WHEN NOT CONNECTED BY SHEAR STUDS. WELD OR SCREW SIDELAPS AT 360° BETWEEN SUPPORTS.
- SHEAR STUDS: USE STEEL FOR STUDS CONFORMING TO THE REQUIREMENTS OF ASTM A08, WITH A MINIMUM TENSILE STRENGTH OF 60,000 PSI.

**COMPOSITE FLOOR SYSTEM:**

- DESIGN: THE FLOOR SLABS HAVE BEEN DESIGNED BASED ON COMPOSITE DESIGN AND INTERACTION OF STEEL BEAMS AND CONCRETE. DESIGN HAS ASSUMED NO SHORING.
- CAMBER: BEAM CAMBER INDICATED ON THE DRAWINGS (EX: c - 1/2") HAS BEEN DESIGNER TO PROVIDE BEAM AFTER THE CONCRETE HAS BEEN PLACED ON THE METAL DECK. BEAM AFTER THE CONCRETE HAS BEEN PLACED ON THE METAL DECK.
- SCREERS: SET SCREERS TO FOLLOW BEAM CAMBER TO PROVIDE A CONSTANT THICKNESS OF THE SLAB OVER THE BEAMS DUE TO THE METAL DECK DEFLECTION.
- CONSTRUCTION JOINTS: SUBMIT CONSTRUCTION JOINT LOCATIONS TO THE ARCHITECT FOR APPROVAL PRIOR TO POUR.
- THE HORIZONTAL PLACEMENT OF CONDUIT IN THE COMPOSITE FLOOR IS NOT ALLOWED.
- REMOVE FERRELLS FROM SHEAR STUDS PRIOR TO POURING CONCRETE.

**DESIGN LOADS:**

DESIGN LOADS ARE IN ACCORDANCE WITH THE NORTH CAROLINA STATE BUILDING CODE 2002 EDITION.

**VERTICAL LOADS (PSF):**

DESCRIPTION	DEAD LOAD (G9F)	LIVE LOAD (G9F)
FLOOR: SLAB-SUPPORTED	20	20
FLOOR: SLAB-ON-GRADE	60	100

**DESIGN LOADS:**

IMPORTANCE FACTORS:

LOAD TYPE	WIND	SEISMIC	ROOF	FLOOR
LIVE LOADS:	(N)	(N)	20	20
SNOW LOAD:	10	15	150	150
WIND LOAD:	10	15	150	150
SEISMIC LOAD:	10	15	150	150

**SEISMIC DESIGN CATEGORY A**

SEISMIC DESIGN CATEGORY B, C & D

SEISMIC USE GROUP III

SEISMIC RESPONSE ACCELERATION 5% S 27.2%

BASIC STRUCTURAL SYSTEM (CHECK ONE)

BEARING WALL

DUAL W/ SPECIAL MOMENT FRAME

DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL

SEISMIC BASE SHEAR

V<sub>b</sub> = 63

WIND PERIOD

ANALYSIS PROCEDURE

SIMPLIFIED

ANALYSIS PROCEDURE

ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED: YES

LATERAL DESIGN CONTROL: EARTHQUAKE

WIND

SOIL BEARING CAPACITY:

FIELD TEST PROVIDE COPY OF TEST REPORT

PRELIMINARY BEARING CAPACITY

FILE SIZE, TYPE, AND CAPACITY

2500

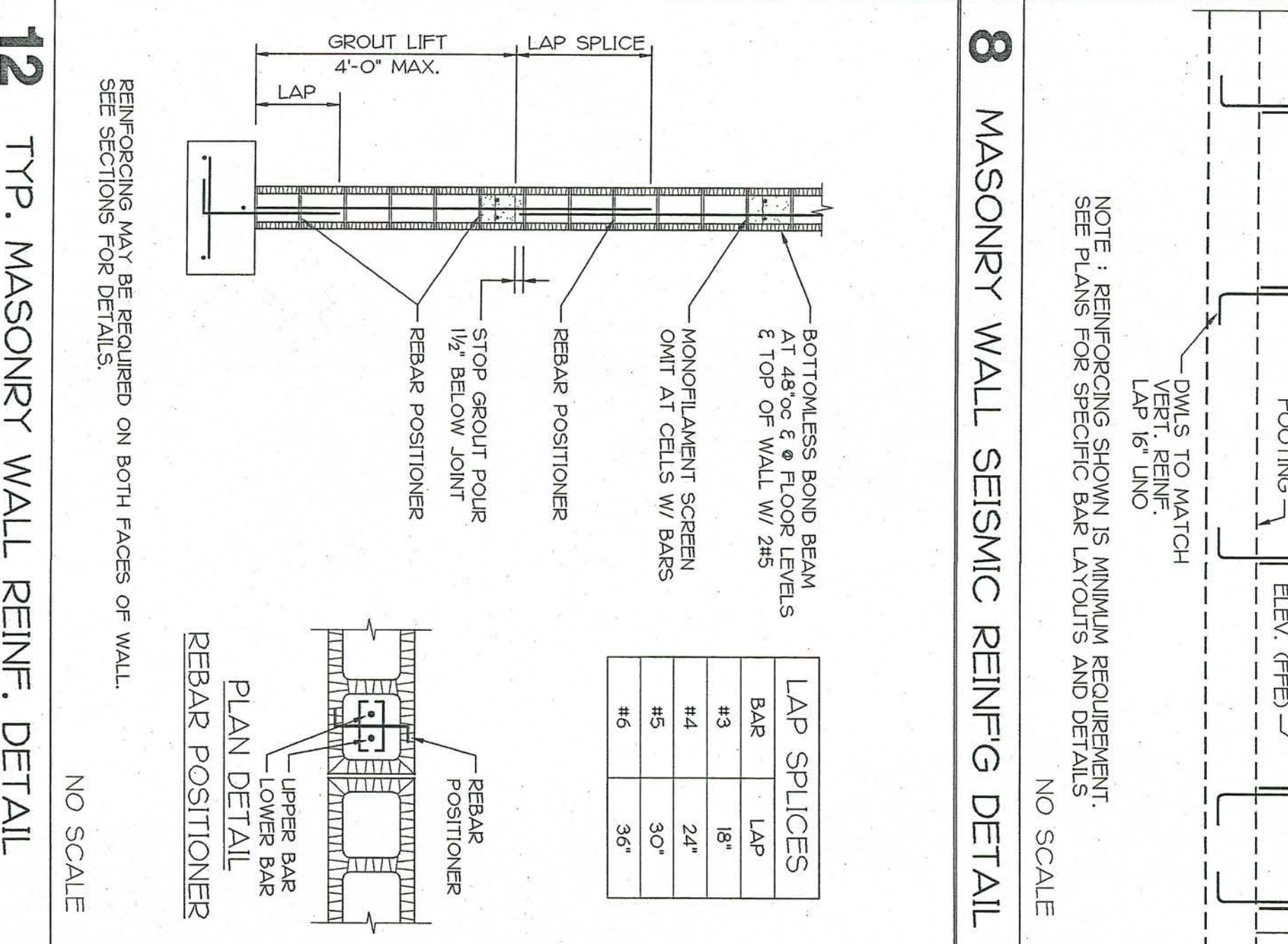
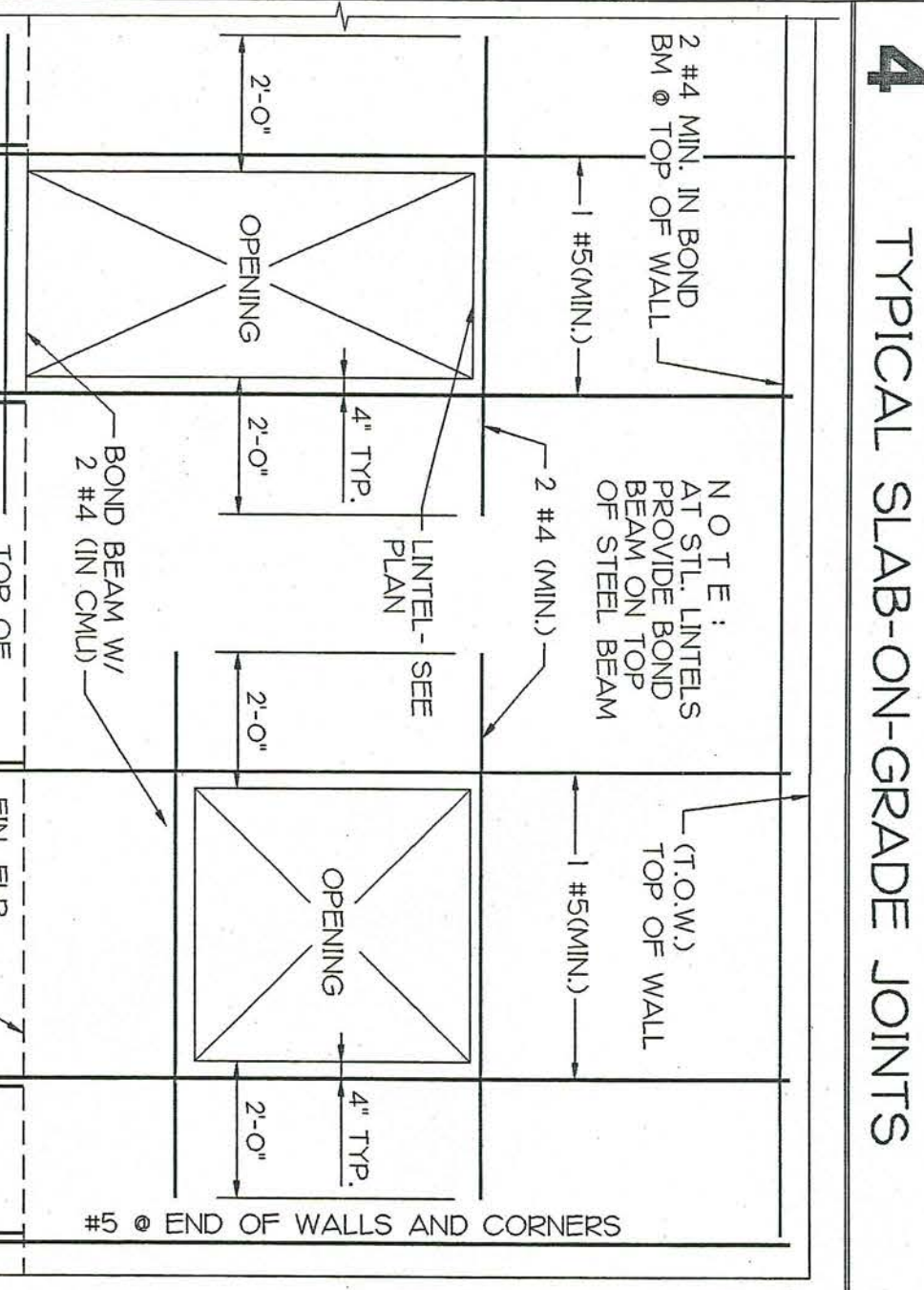
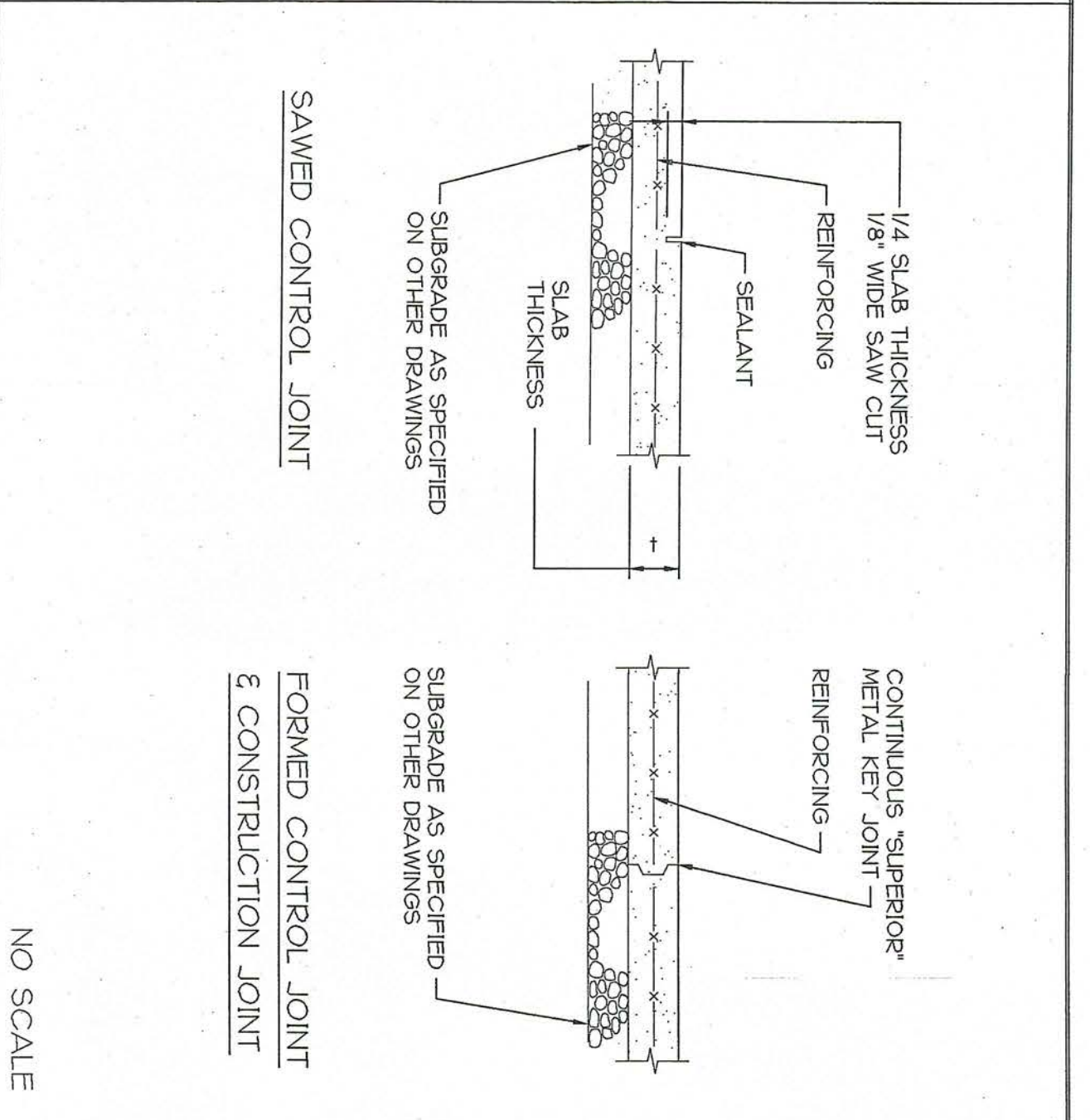
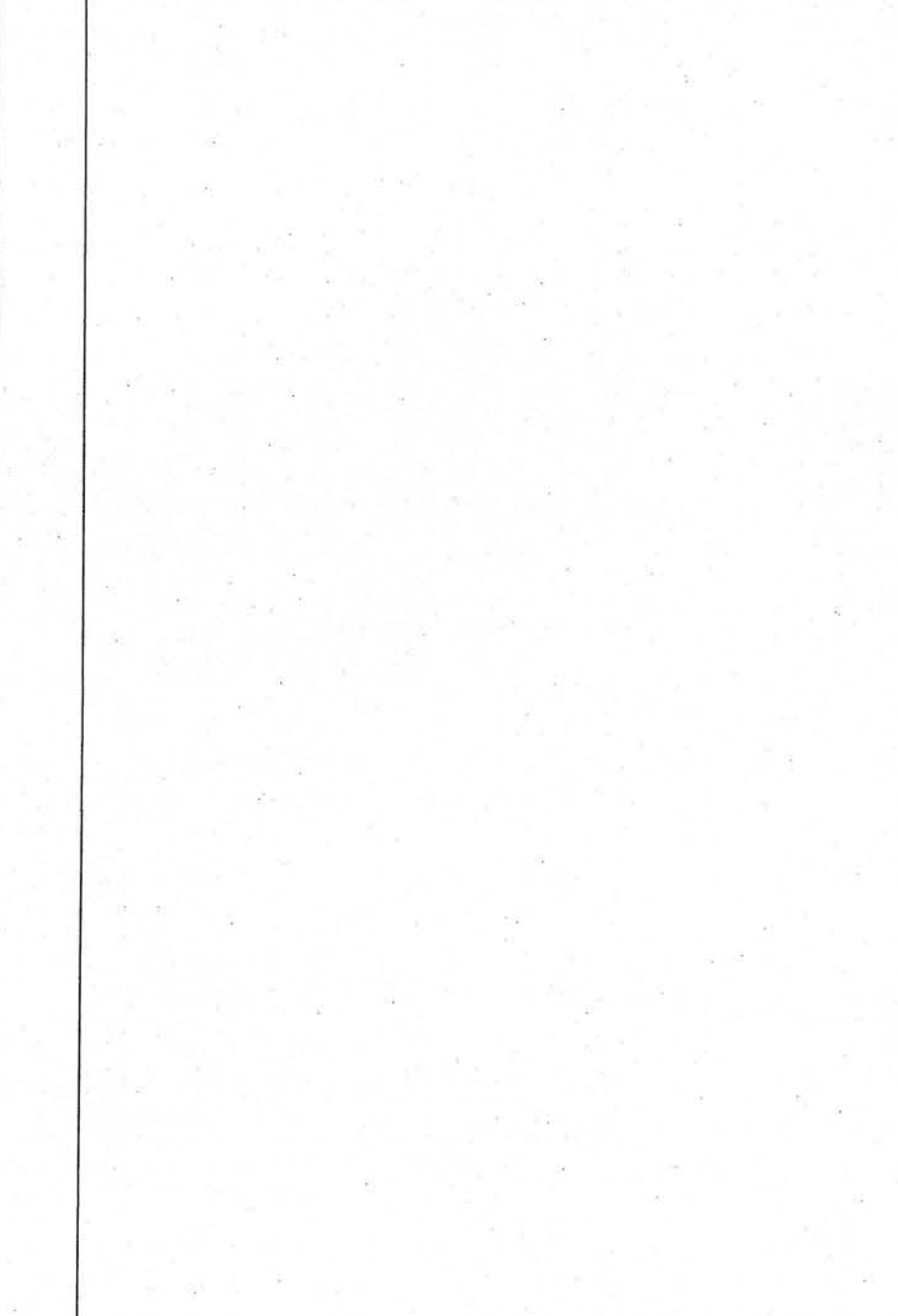
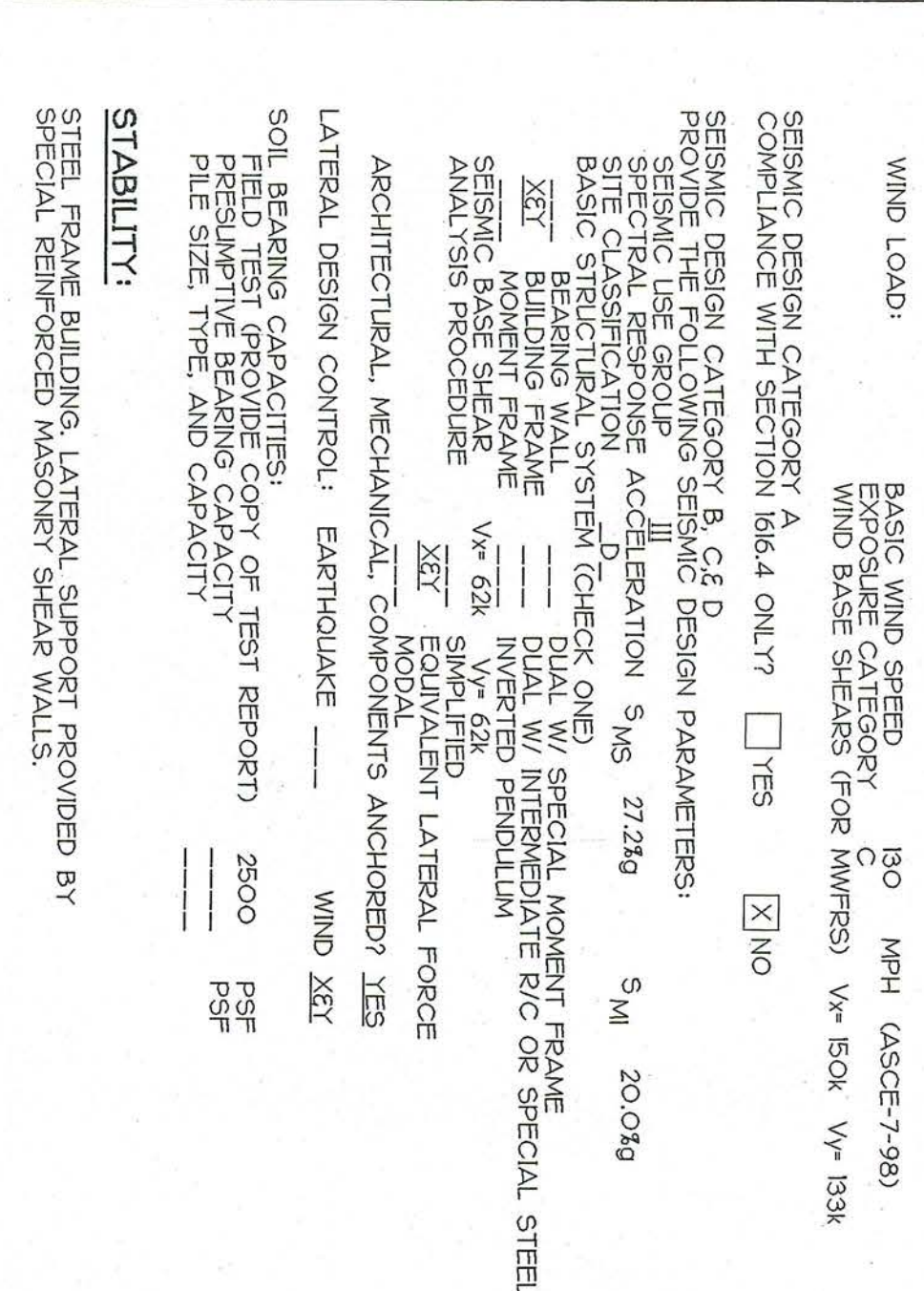
2500

PSF

PSF

**STABILITY:**

STEEL FRAME BUILDING, LATERAL SUPPORT PROVIDED BY SPECIAL REINFORCED MASONRY SHEAR WALLS.

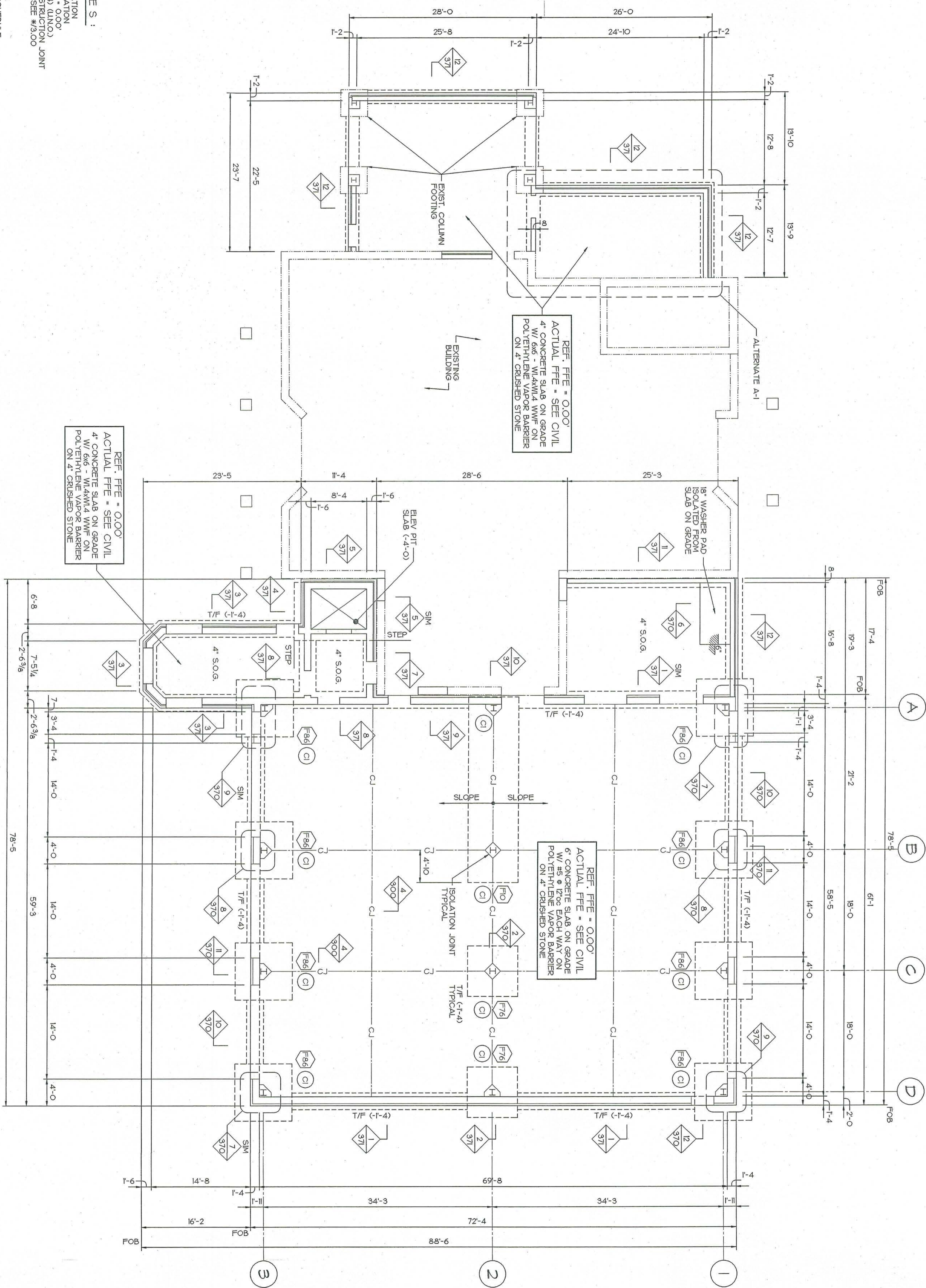




9

**FOUNDATION PLAN NOTES:**

- INDICATES FINISHED FLOOR ELEVATION, T/F (F-4)
  - INDICATES TOP OF FOOTING ELEVATION, T/F (F-4)
  - INDICATES CONTROL JOINT / CONSTRUCTION JOINT
  - INDICATES WALL FOOTING STEP, SEE #3.00
  - INDICATES EDGE OF SLAB
  - INDICATES FACE OF BUILDING
  - INDICATES FOOTING MARK, SEE SCHEDULE.
  - INDICATES COLUMN MARK, SEE SCHEDULE.
  - INDICATES SLAB SPOT ELEVATION, SEE PLAN/ARCH
- REFERS TO ARCHITECTURAL FLOOR PLAN FOR DIMENSIONS OF THIS DRAWING.  
 REFERS TO ARCHITECTURAL DRAWINGS FOR ALL MASONRY OPENINGS DIMENSIONS AND LOCATIONS

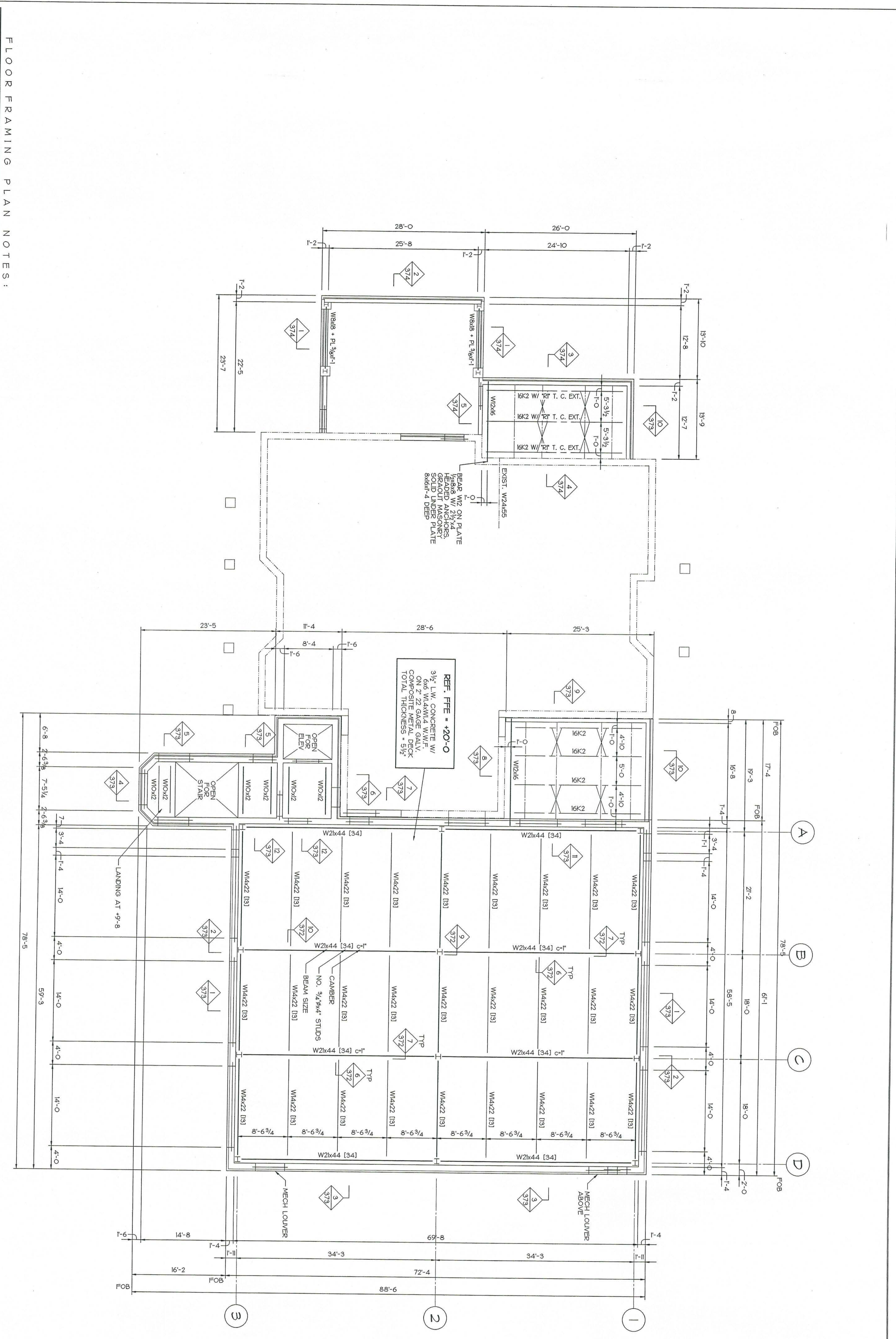


FOUNDATION PLAN

1/8" = 1'-0"

<p>RENOVATIONS AND ADDITIONS FOR THE  <b>NEW PUBLIC SAFETY BUILDING</b>                  Pine Knoll Shores, North Carolina</p>		<p><b>Stewart-Cooper-Newell-Architects</b>                  Planning Architecture Interiors</p> <p>719 east second ave.                  gastonia, nc 28054                  phone: 704.865.6311                  fax: 704.865.0046</p> <p>www.scn-architects.com</p>	<p><b>COGGIN CARRARA, INC.</b></p> <p>© 2002 BY:                  COGGIN CARRARA, INC.                  3717 LATROBE DRIVE                  SUITE 750                  CHARLOTTE, NC 28211                  704-443-1956                  704-443-1057 (FAX)                  WWW.COGGINCARRARA.COM                  JOB NUMBER: 1282</p>	<p>Project No.  <b>999</b></p> <p>Date                  08-01-02</p> <p>Drawn                  CRG</p> <p>Checked                  ADC</p> <p>Revisions</p>
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FLOOR FRAMING PLAN NOTES:

- T/S - #9-6/16 - INDICATES TOP OF STEEL ELEVATION ABOVE REFERENCE ELEVATION 0.00.
- SEE ARCHITECTURAL DRAWINGS FOR ALL FLOOR OPENING DIMENSIONS AND LOCATIONS.
- 1. COORDINATE ALL HOLES THROUGH SLAB WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- 2. SEE ARCHITECTURAL DRAWINGS FOR INTERIOR WALLS.

SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

<p><b>RENOVATIONS AND ADDITIONS FOR THE NEW PUBLIC SAFETY BUILDING</b> Pine Knoll Shores, North Carolina</p> <p><b>SECOND FLOOR FRAMING PLAN</b></p> <p>sheet 3.20 3 of 9</p>	 <p><b>Stewart Cooper Newell Architects</b> Planning Architecture Interiors</p> <p>719 east second ave. 28054 gastonia, nc 28054 phone: 704.865.8311 fax: 704.865.0048</p> <p>www.scn-architects.com</p>	 <p><b>COGGIN CARRARA, INC.</b> QUALITY STRUCTURAL STEEL</p> <p>© 2002 BY: COGGIN CARRARA, INC. 3177 LATROBE DRIVE SUITE 702 CHARLOTTE, NC 28211 704-442-1057 704-442-1057 (FAX) WWW.COGGINCARRARA.COM JOB NUMBER: 1282</p> <p><small>*For every house is built by some man; but he that build all things is God.* Job 2:4</small></p>	<p>Project No. <b>999</b></p> <p>Date 08-01-02</p> <p>Drawn CHG</p> <p>Checked ADC</p> <p>Revisions</p>
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**ROOF FRAMING PLAN NOTES:**

T/S = +1'-8" - INDICATES TOP OF STEEL ELEVATION ABOVE REFERENCE ELEVATION 0.000.

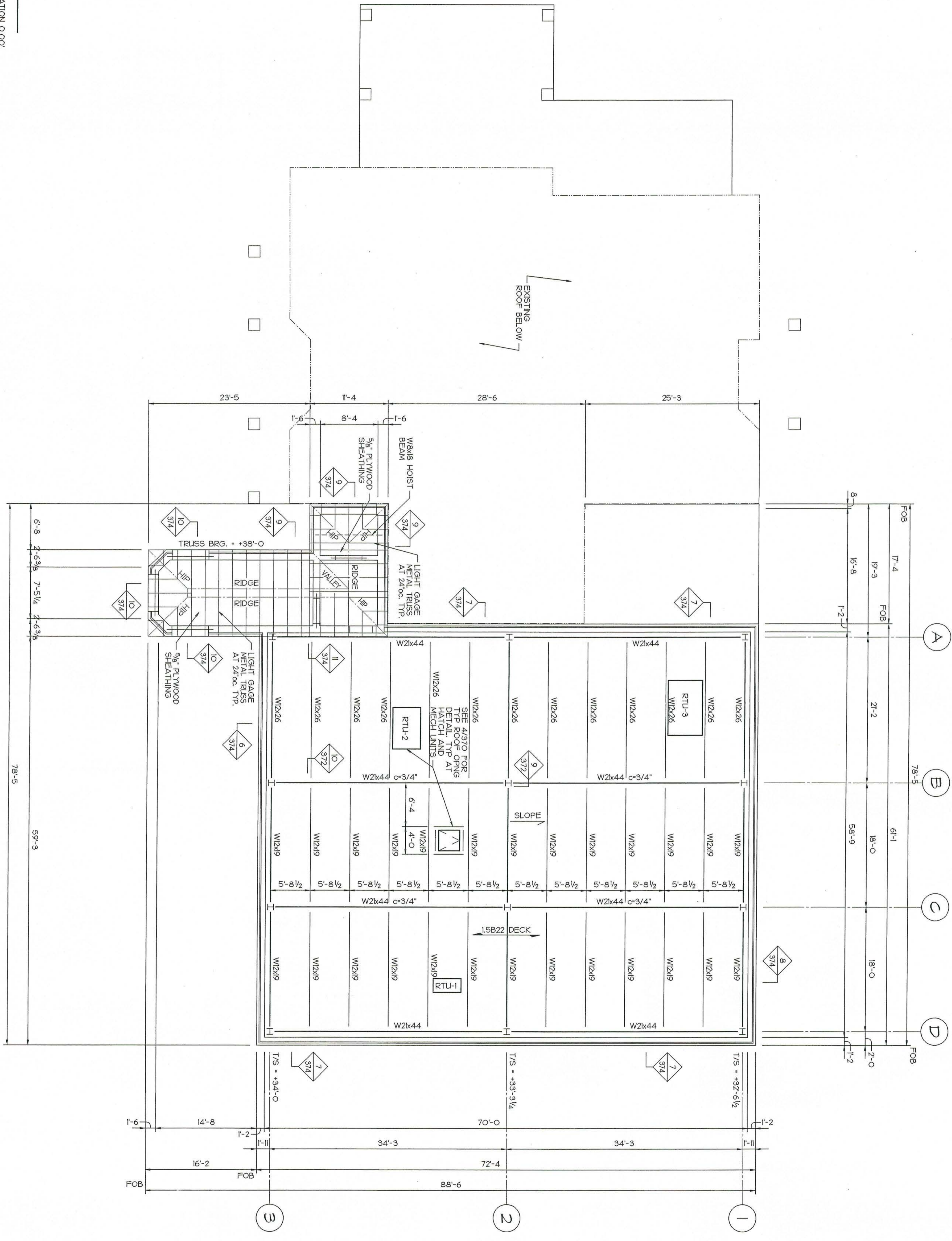
RTU - INDICATES ROOF TOP UNIT. RTUS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY AND CORRECT AS REQUIRED. GENERAL NUMBER OF ALL ROOF TOP UNITS (RTU) REQUIRED. SEE 1/3/75 FOR FRAMING AROUND ROOF OPENINGS.

FOB - FACE OF BUILDING

1. COORDINATE ALL HOLES THROUGH ROOF WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.

9

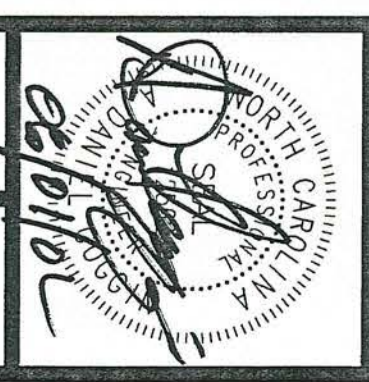
ROOF FRAMING PLAN



**RENOVATIONS AND ADDITIONS FOR THE NEW PUBLIC SAFETY BUILDING**  
Pine Knoll Shores, North Carolina

**ROOF FRAMING PLAN**

sheet **3.30**  
4 of 9



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Drawn CRG  
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\*For every house we build by some man, but He that built all things is God.\* Job 2:4

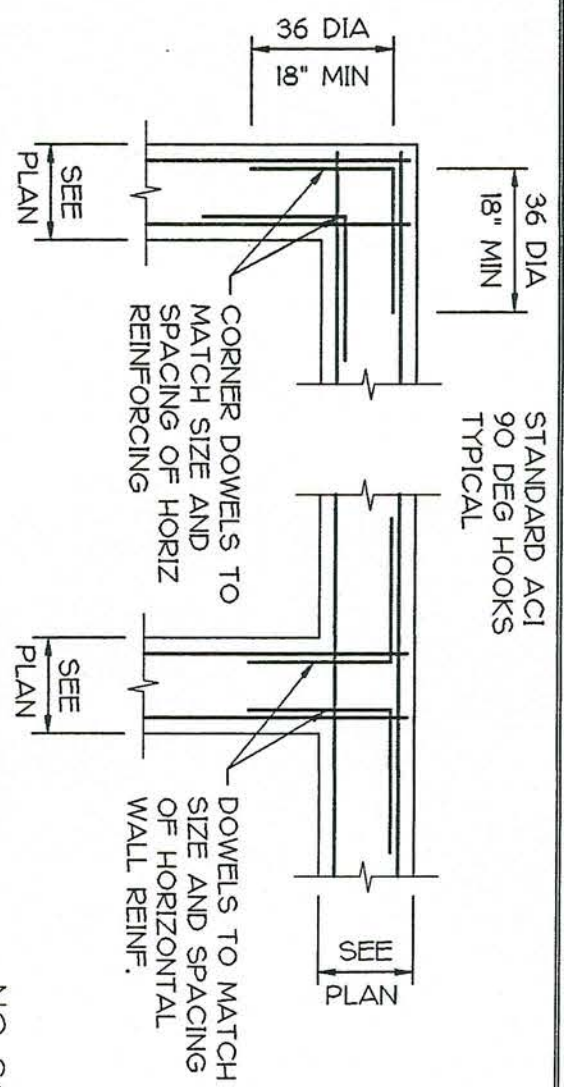


### FOOTING SCHEDULE

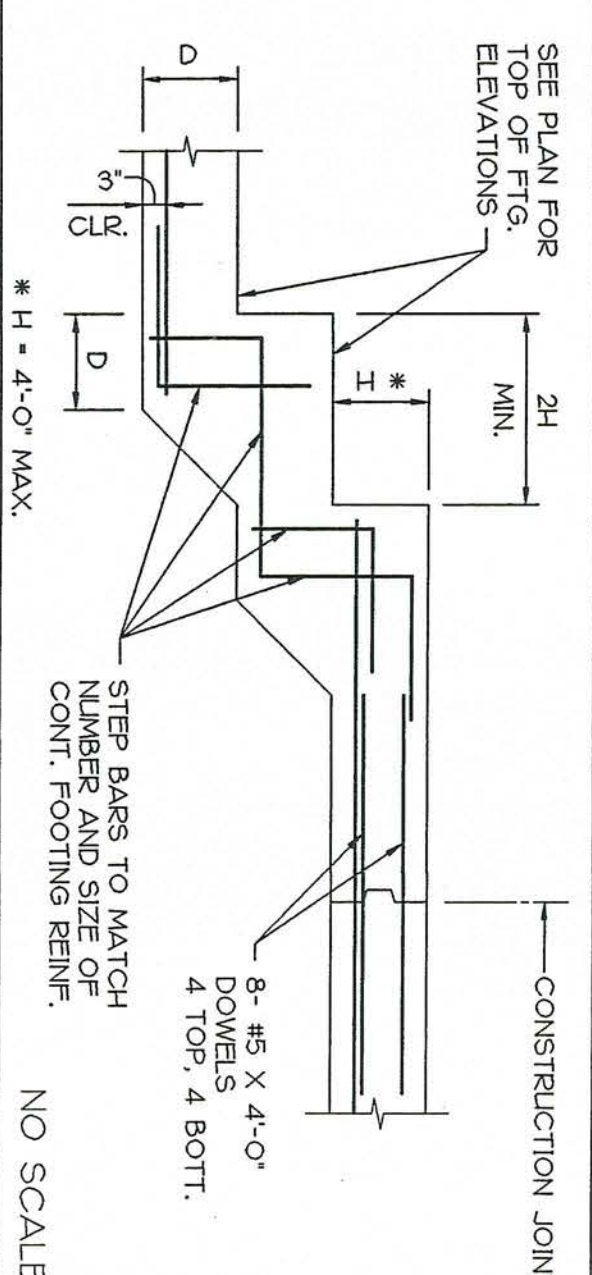
MARK	SIZE	DEPTH	REINFORCING
F30	3'-0" X 3'-0"	1'-0"	3 # 4 EA. WAY
F40	4'-0" X 4'-0"	1'-0"	4 # 5 EA. WAY
F50	5'-0" X 5'-0"	1'-0"	6 # 5 EA. WAY
F60	6'-0" X 6'-0"	1'-0"	6 # 5 EA. WAY TBS
F66	6'-6" X 6'-6"	1'-4"	8 # 5 EA. WAY TBS
F70	7'-0" X 7'-0"	1'-5"	8 # 5 EA. WAY
F76	7'-6" X 7'-6"	2'-0"	7 # 6 EA. WAY
F80	8'-0" X 8'-0"	1'-7"	6 # 7 EA. WAY
F86	8'-6" X 8'-6"	1'-8"	7 # 7 EA. WAY
F90	7'-6" X 27'-8"	1'-8"	14 # 7 X 27'-0" T & B 22 # 7 X 7'-0" T & B

NOTE: ALL FOOTING SIZES MAY NOT BE UTILIZED.

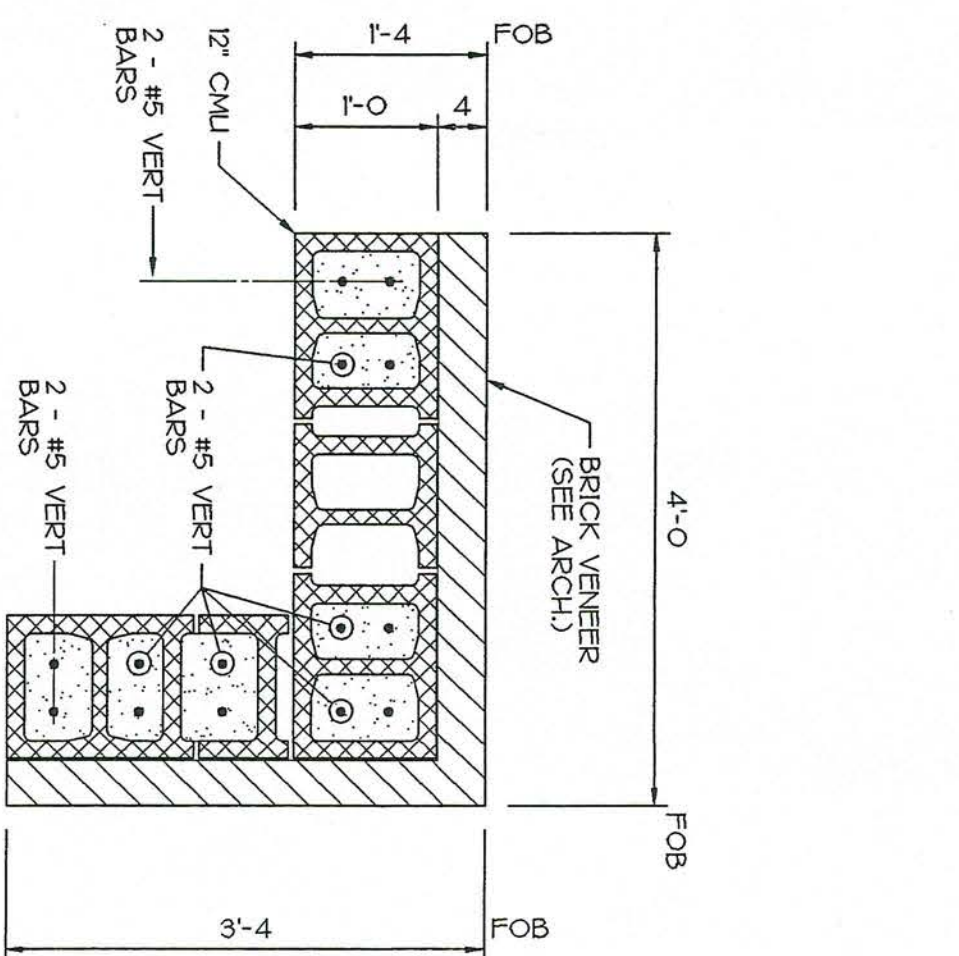
### 1 FOOTING SCHEDULE



### 5a TYP. WALL/FTG CORNER BAR DETAILS



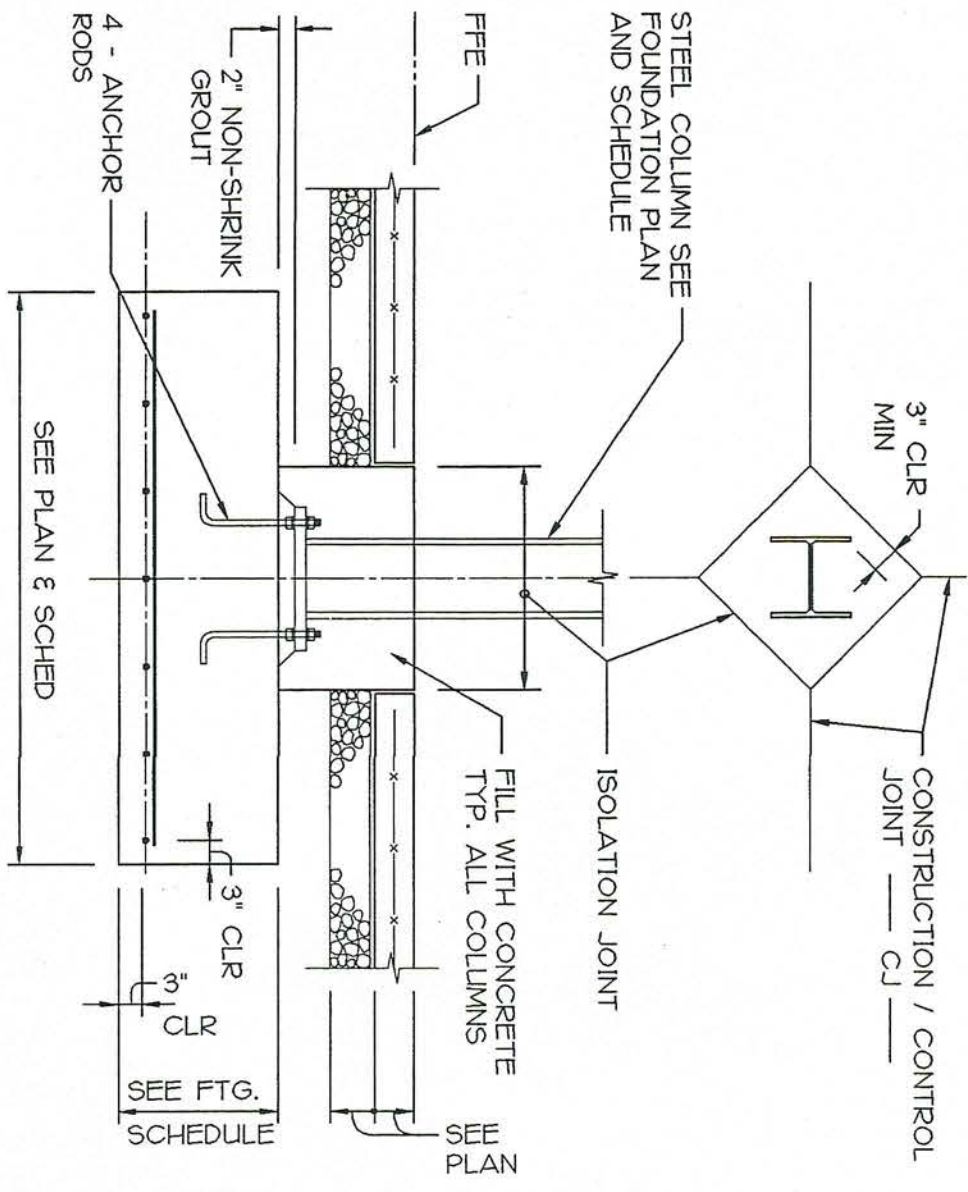
### 5 TYPICAL STEPPED FOOTING DETAIL



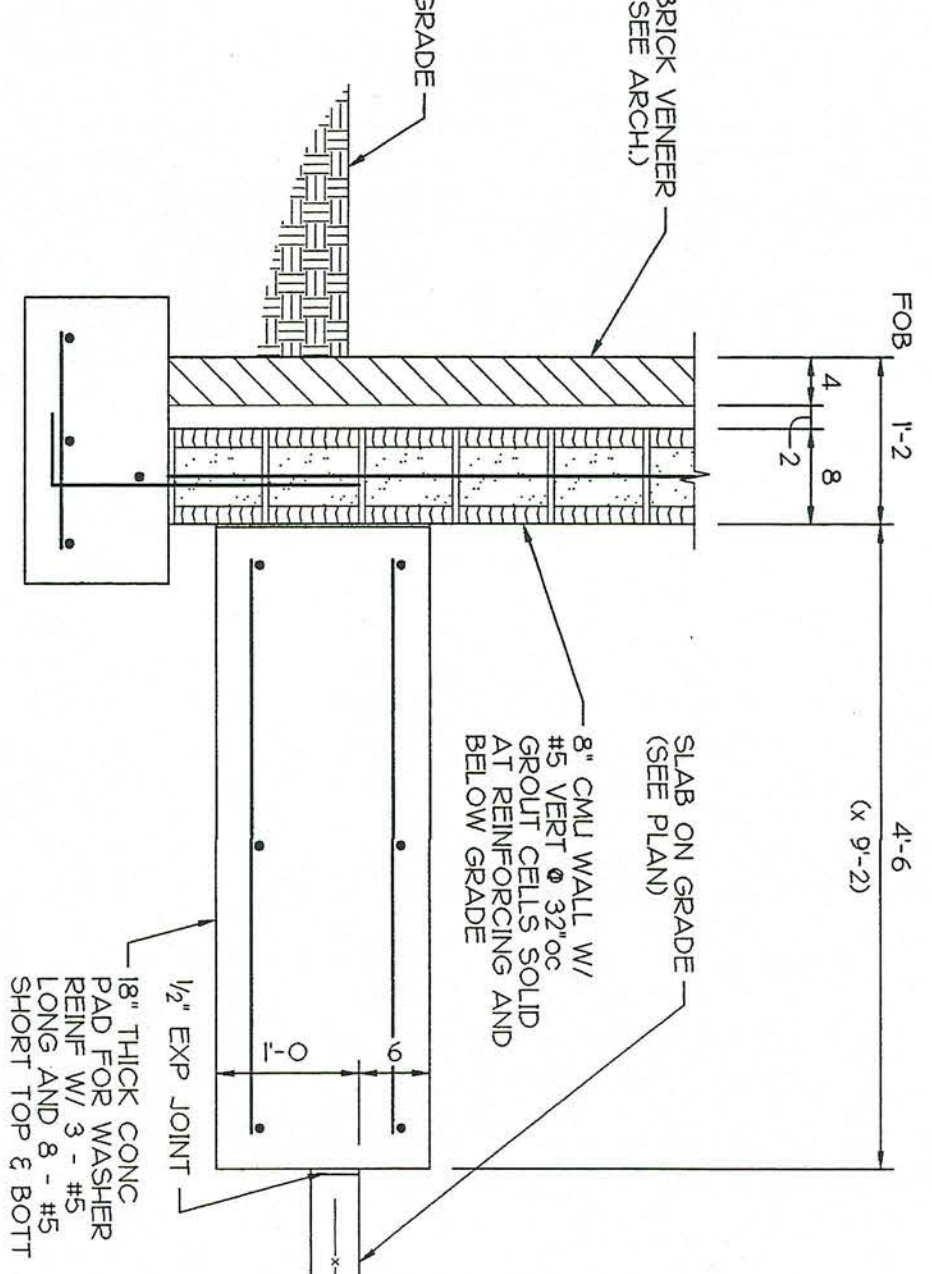
### 9 PIER DETAIL

3/4" = 1'-0"

### 2 TYPICAL COLUMN FOOTING DETAIL



### 6 SECTION AT WASHER PAD

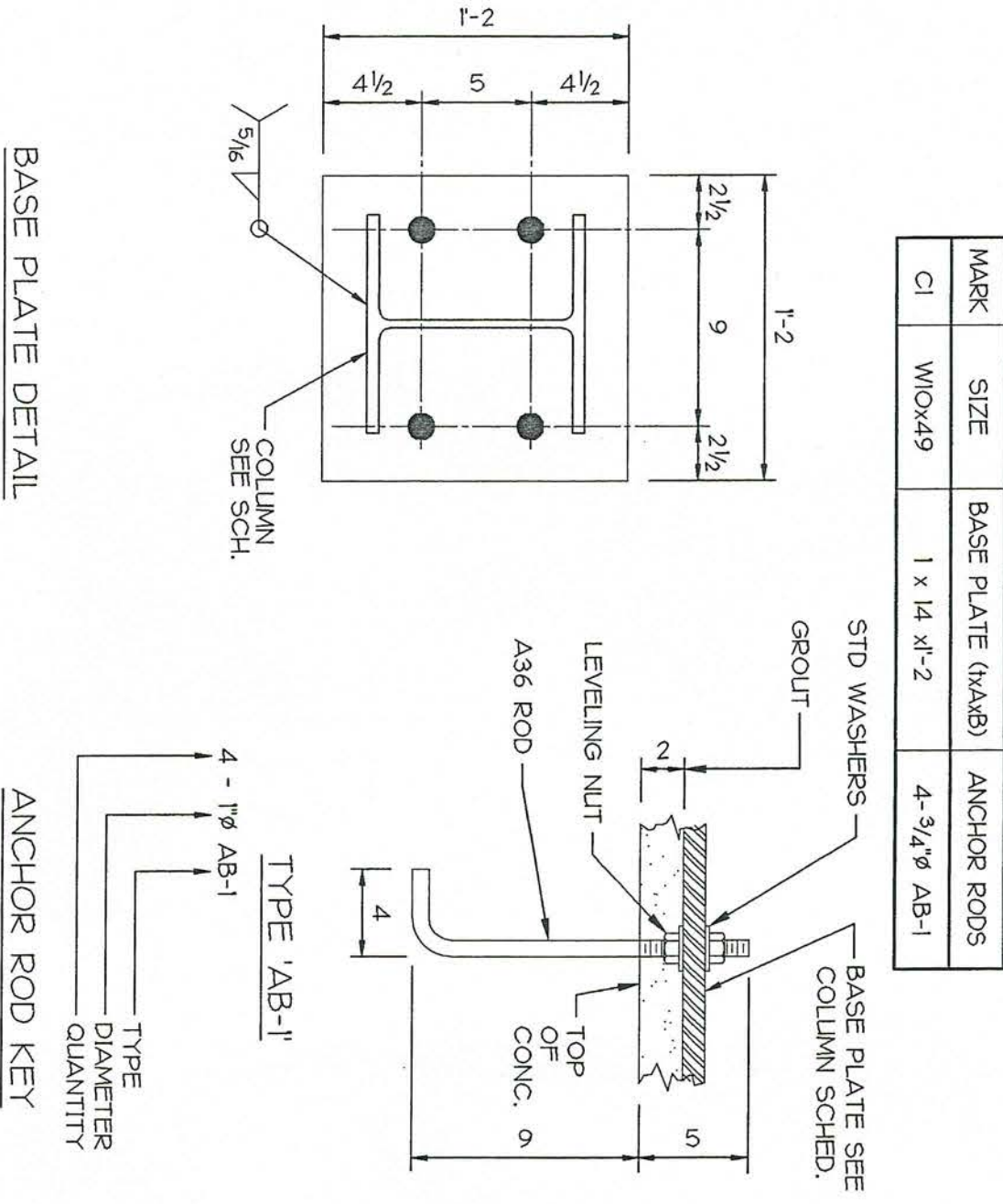


3/4" = 1'-0"

### COLUMN SCHEDULE

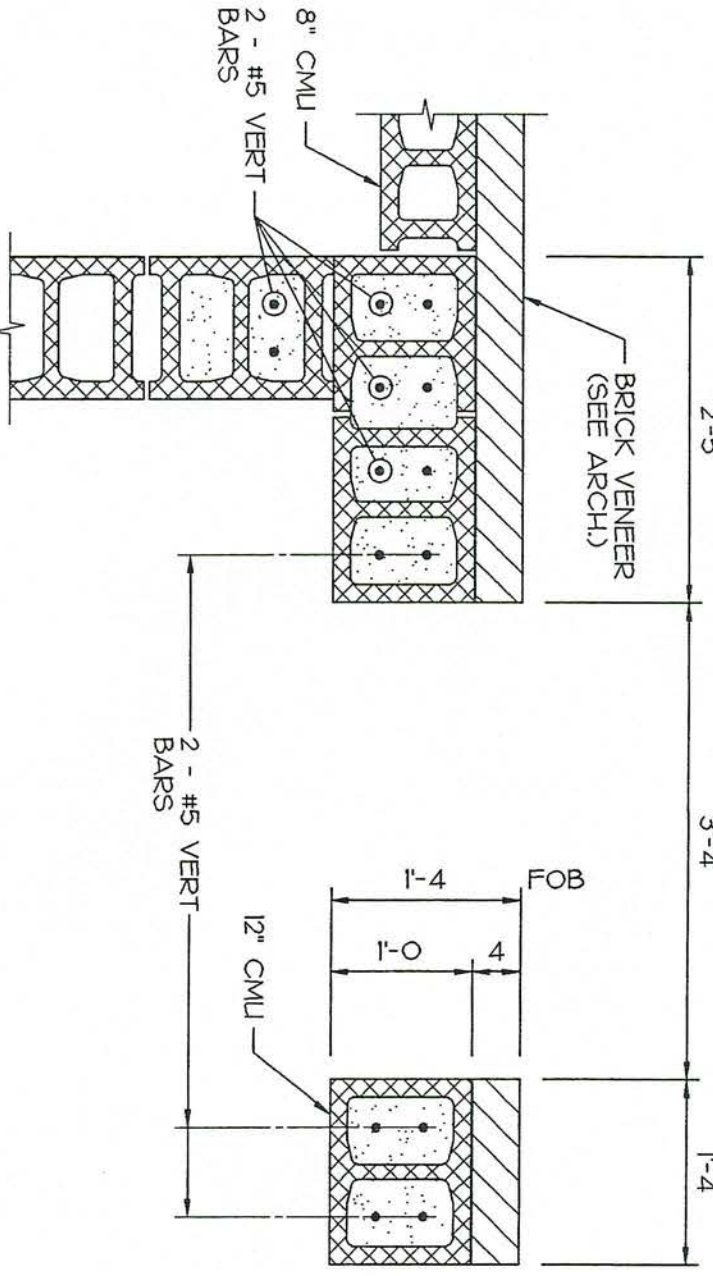
MARK	SIZE	BASE PLATE (WAS)	ANCHOR RODS
C1	W10x49	1 x 14 "1"-2	4 - 3/4" AB-1

### 3 COLUMN & BASE PLATE SCHEDULE



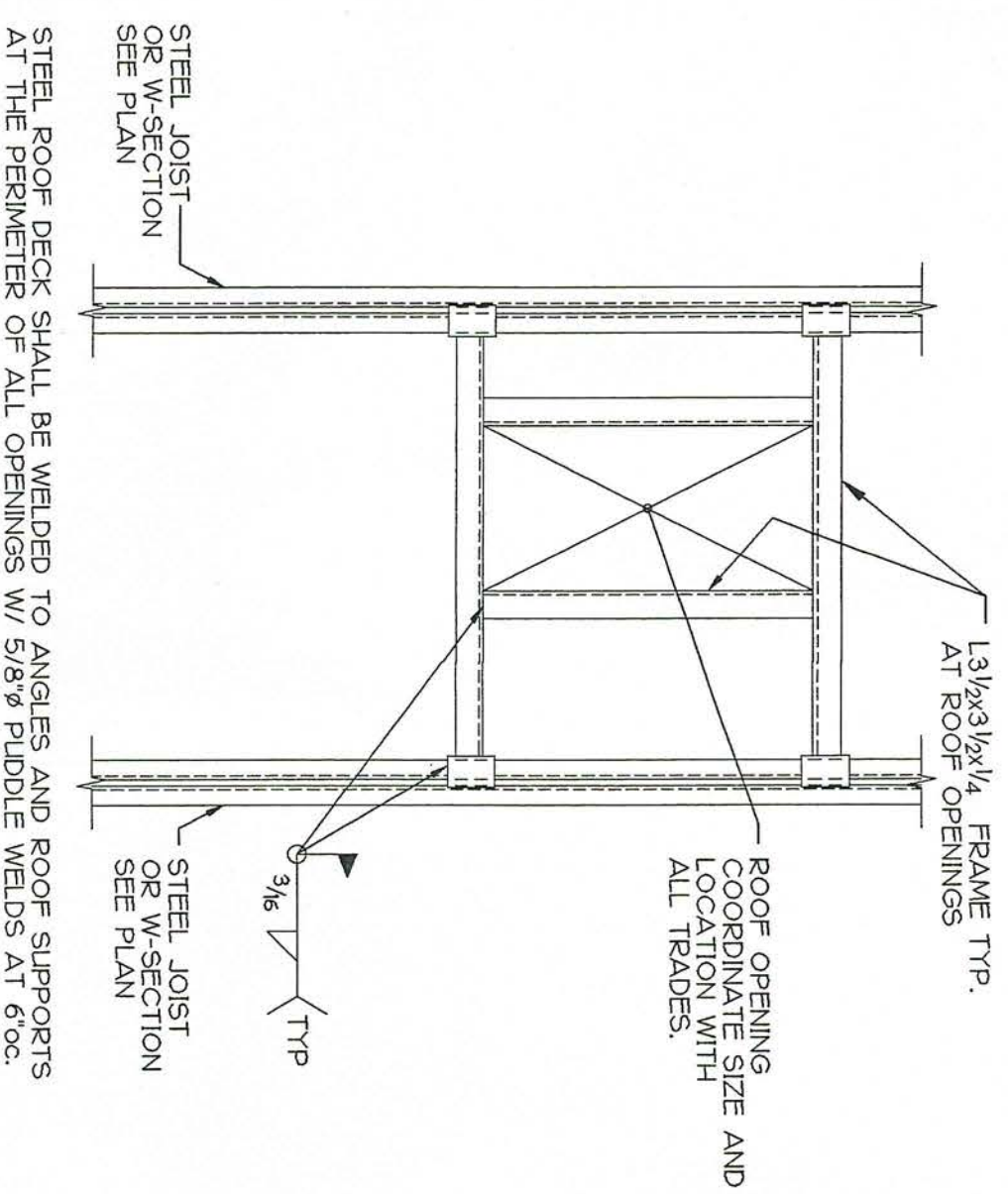
### 3 COLUMN & BASE PLATE SCHEDULE

### 7 PIER DETAIL



3/4" = 1'-0"

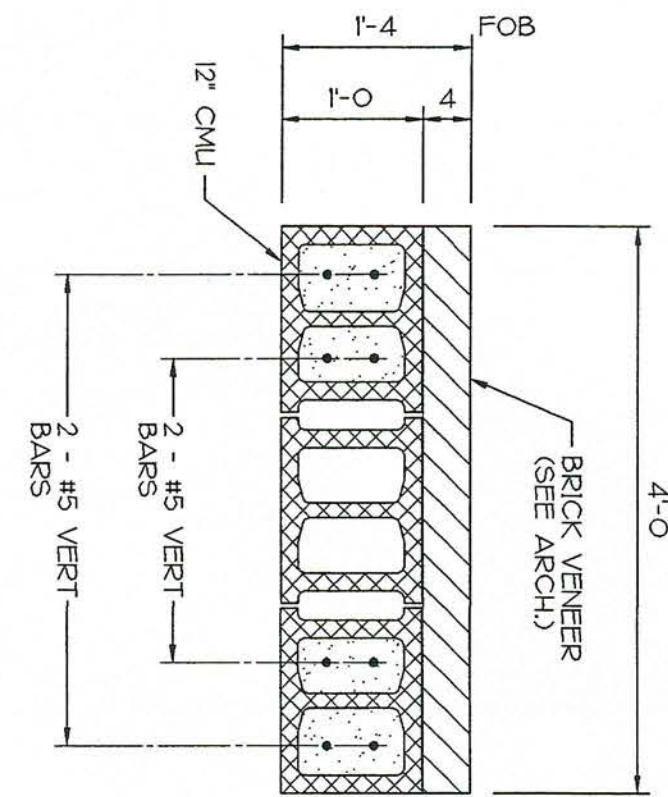
### 4 TYPICAL ROOF OPENING DETAIL



NO SCALE

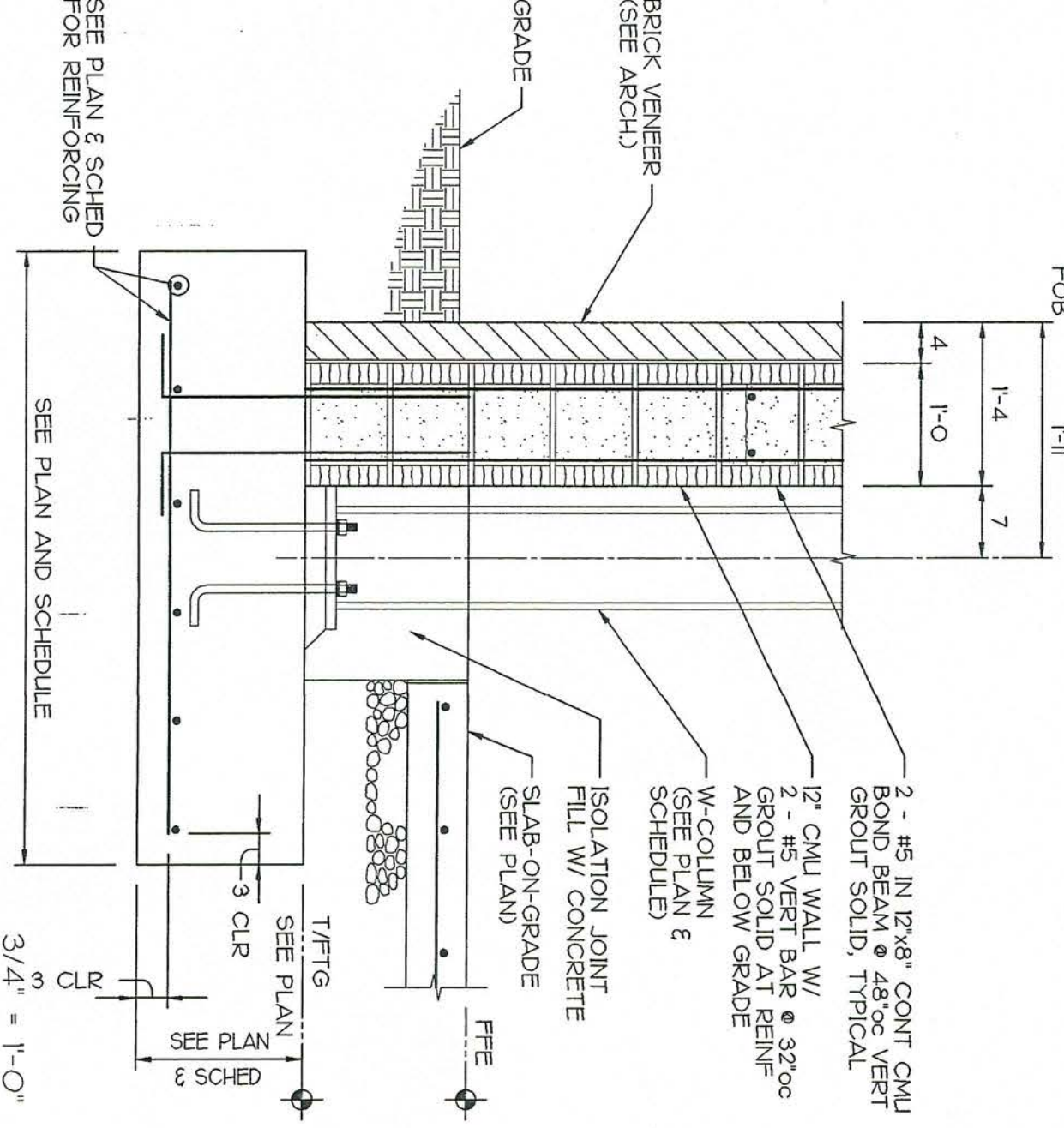
NOTE: COORD ALL OPENINGS THRU ROOF WITH ARCH AND MECH/PLUMBING DRAWINGS. INDICATE ALL DETAILS ON SHOP DRAWINGS.

### 8 PIER DETAIL



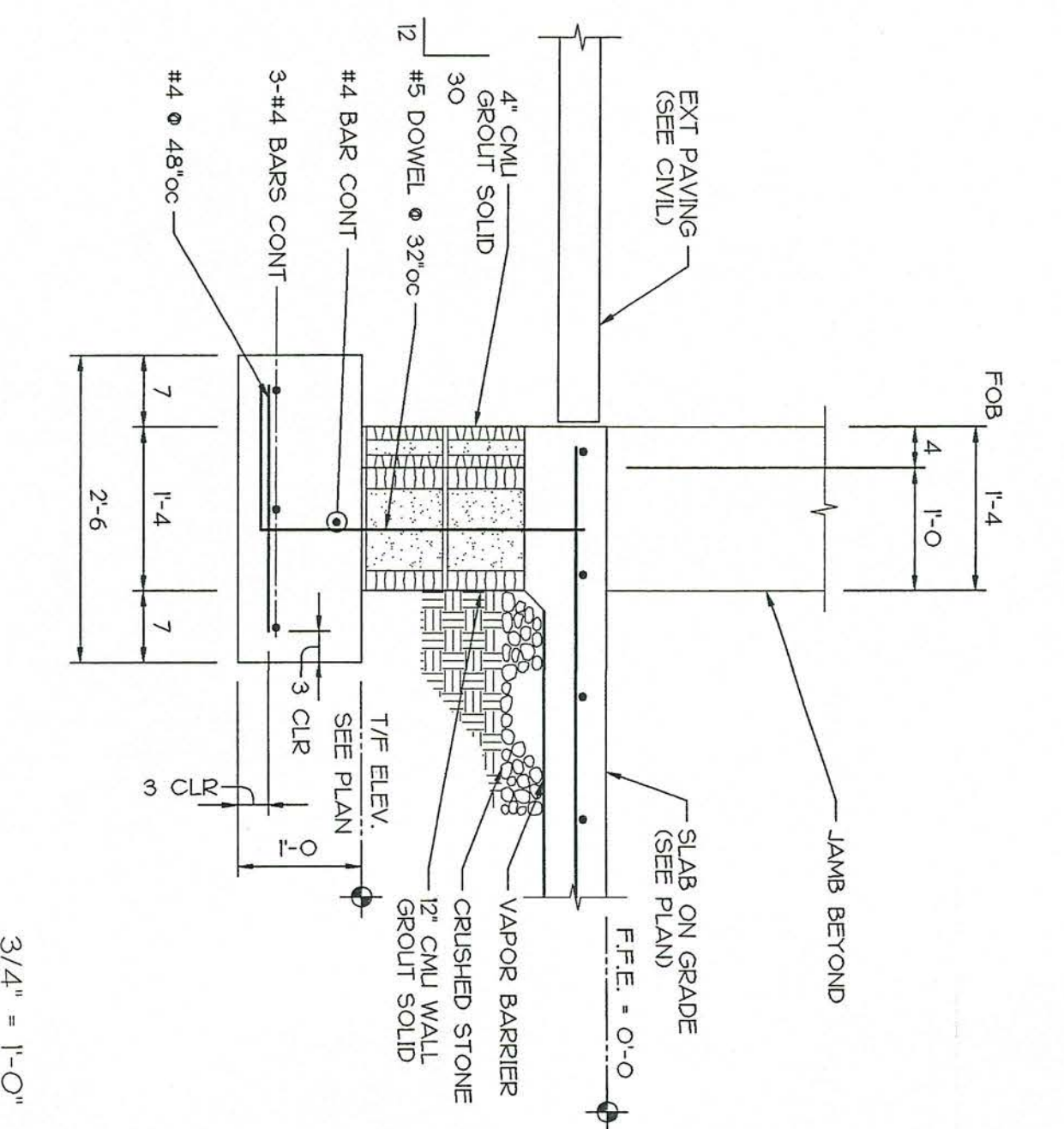
3/4" = 1'-0"

### 8 PIER DETAIL



3/4" = 1'-0"

### 11 EXTERIOR COLUMN FOOTING



3/4" = 1'-0"

### 12 SECTION AT EXTERIOR DOOR

Da. 08-1  
DRWN  
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ADC  
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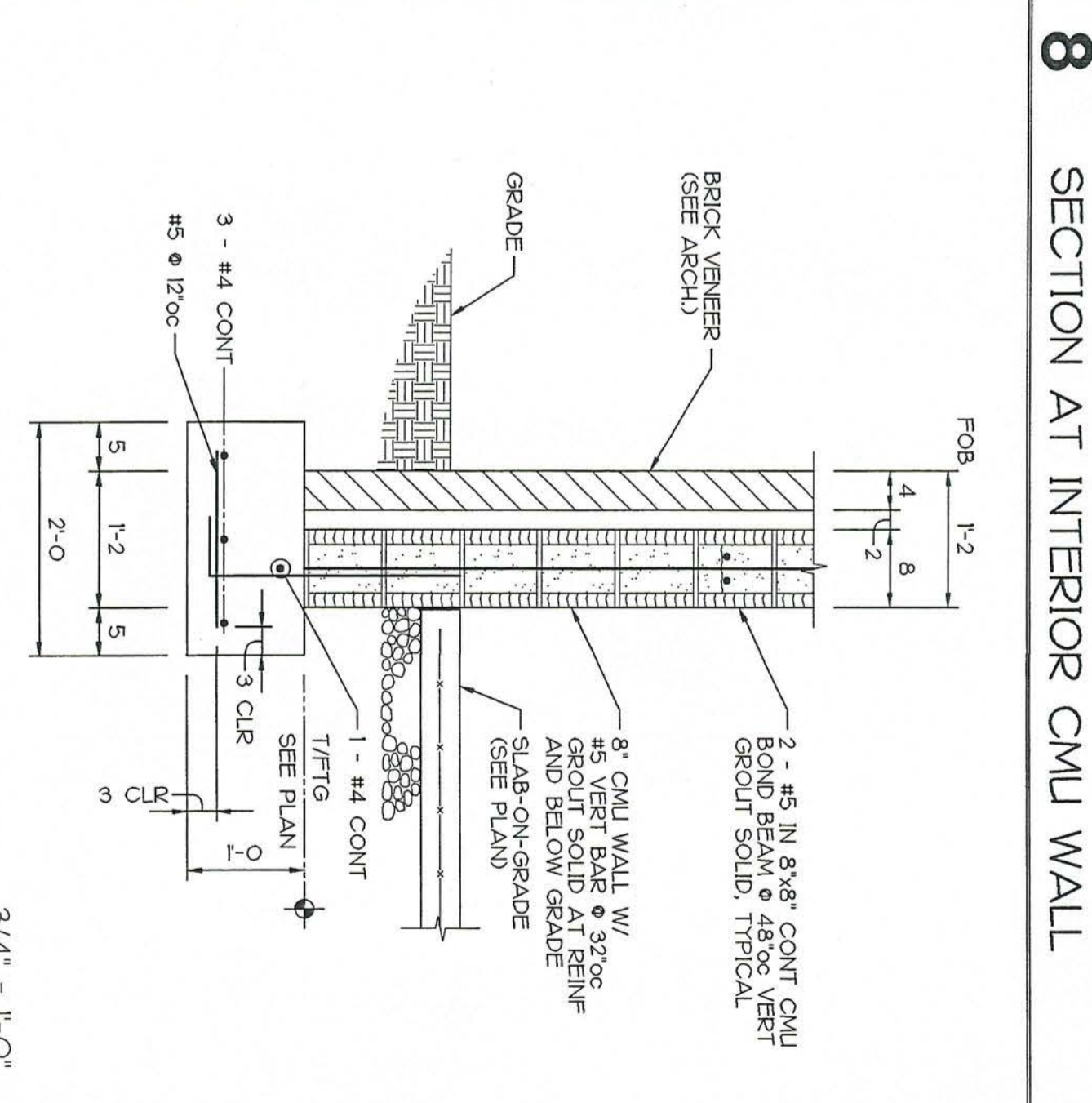
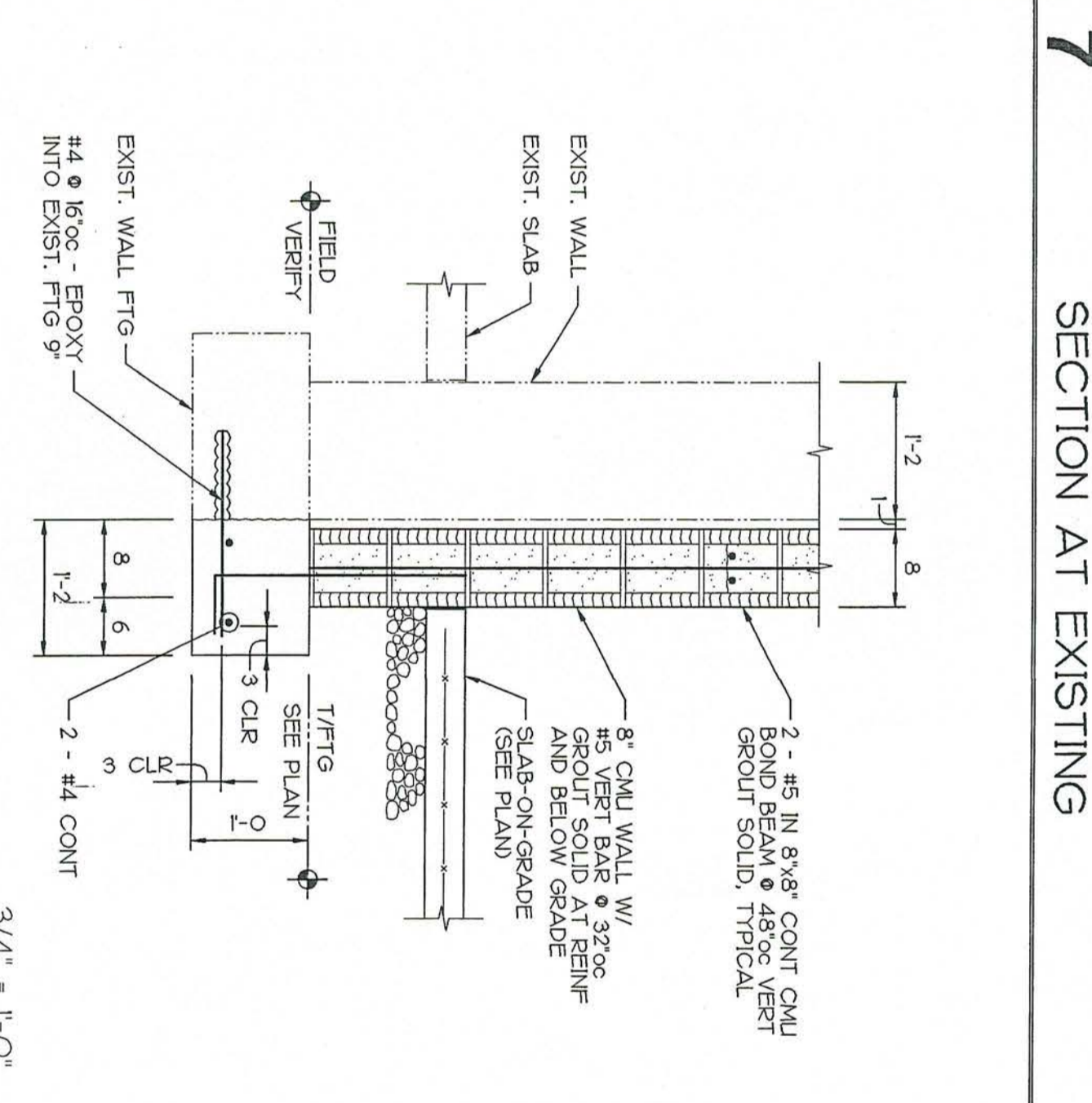
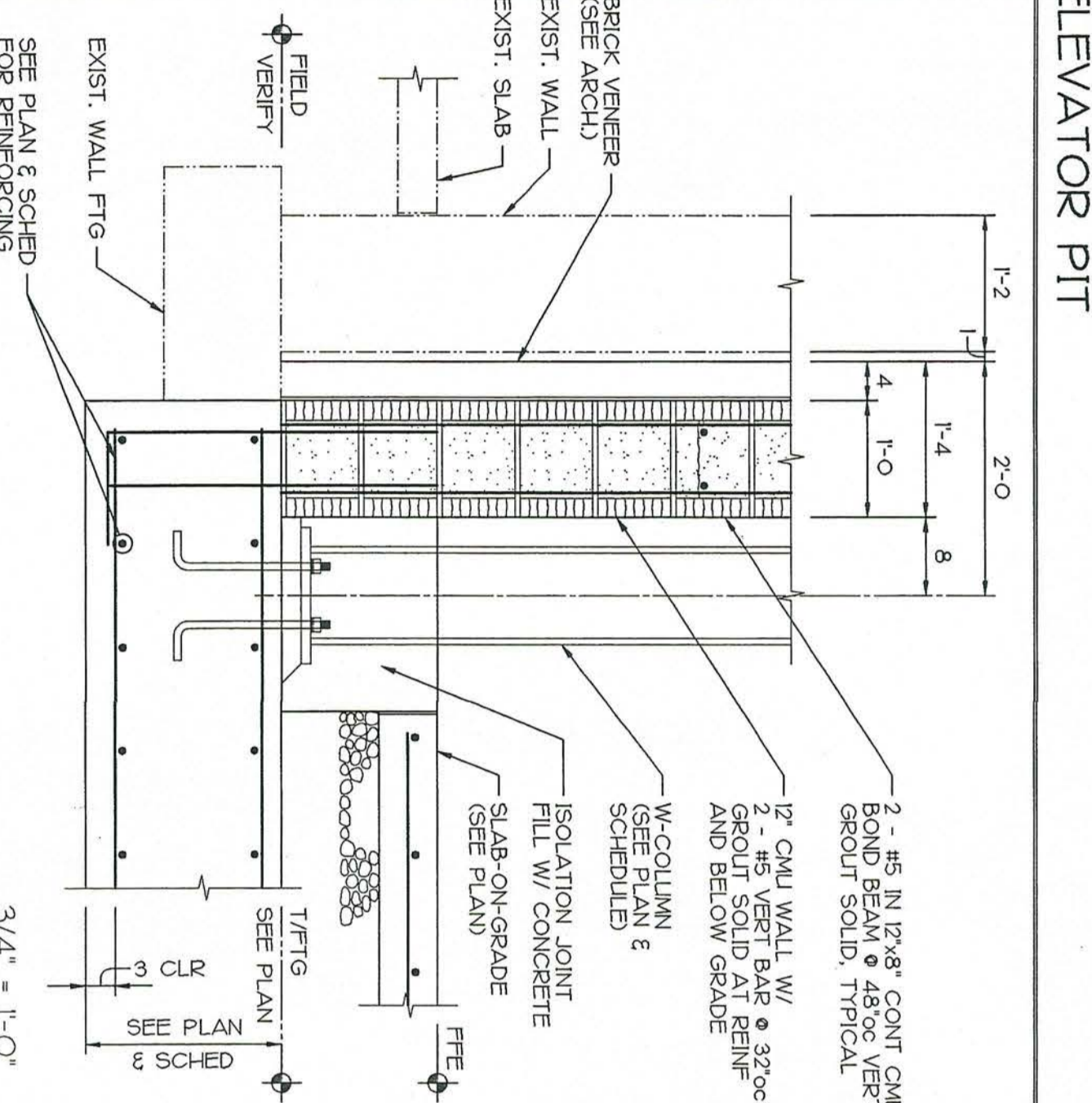
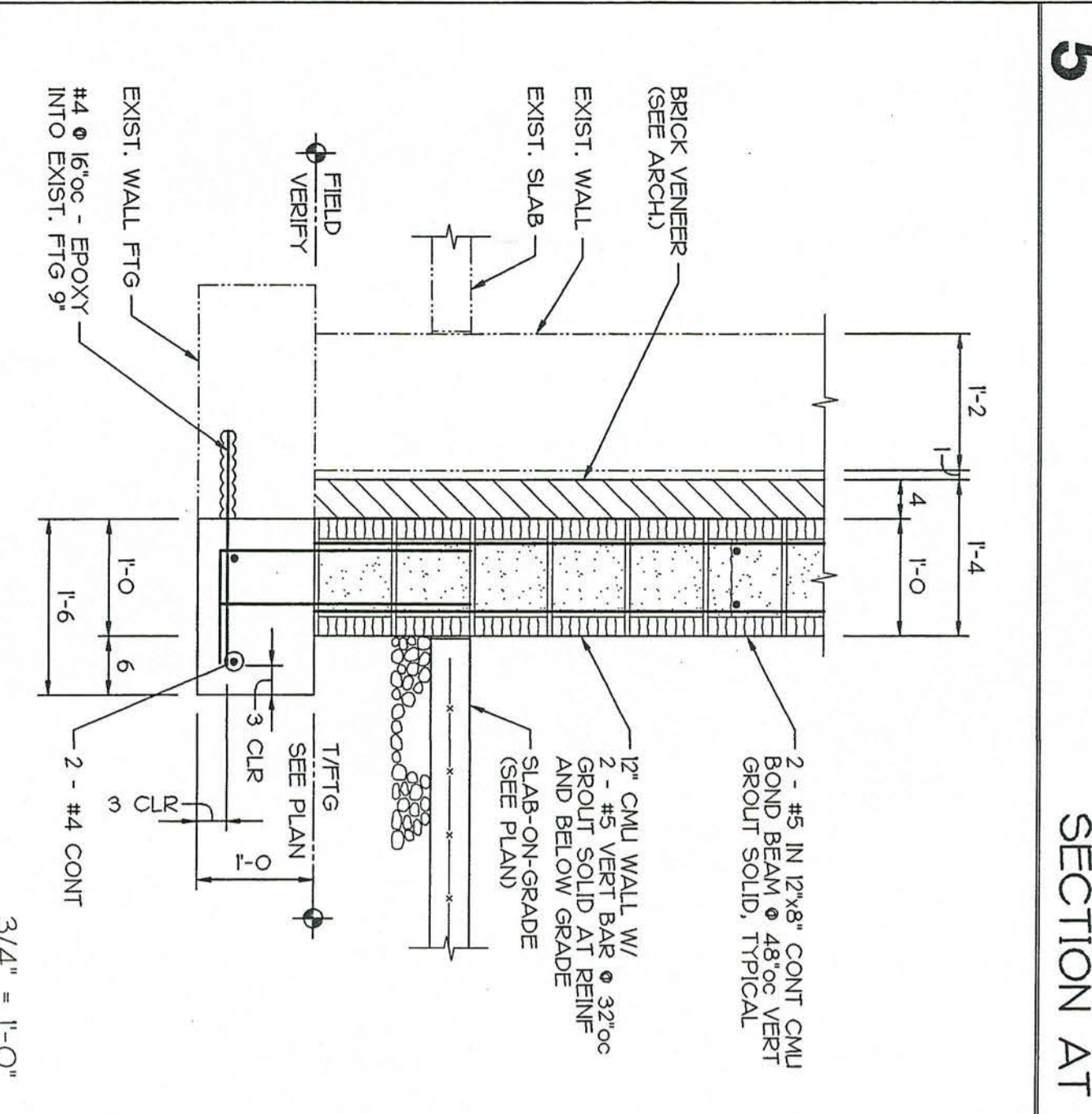
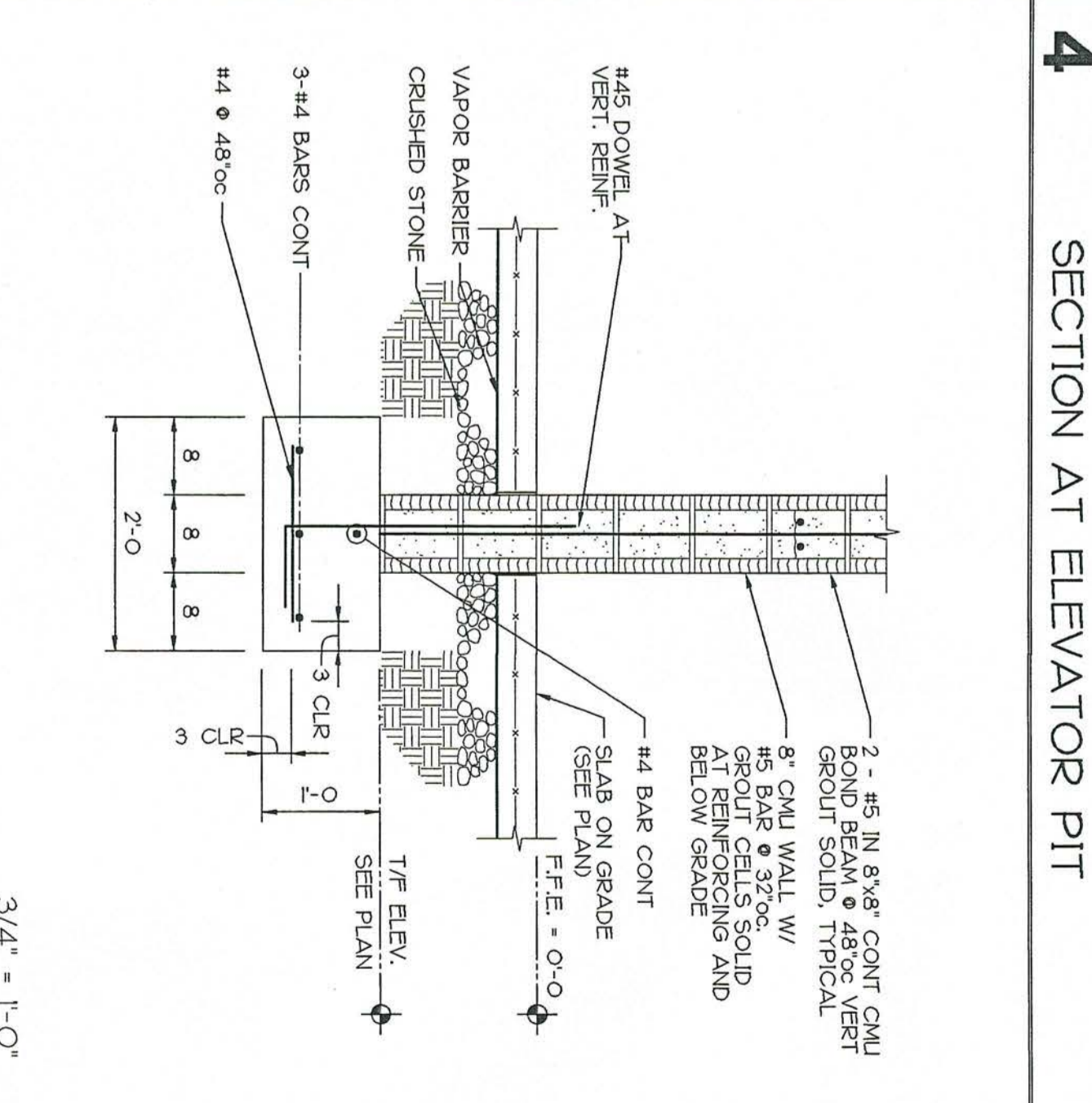
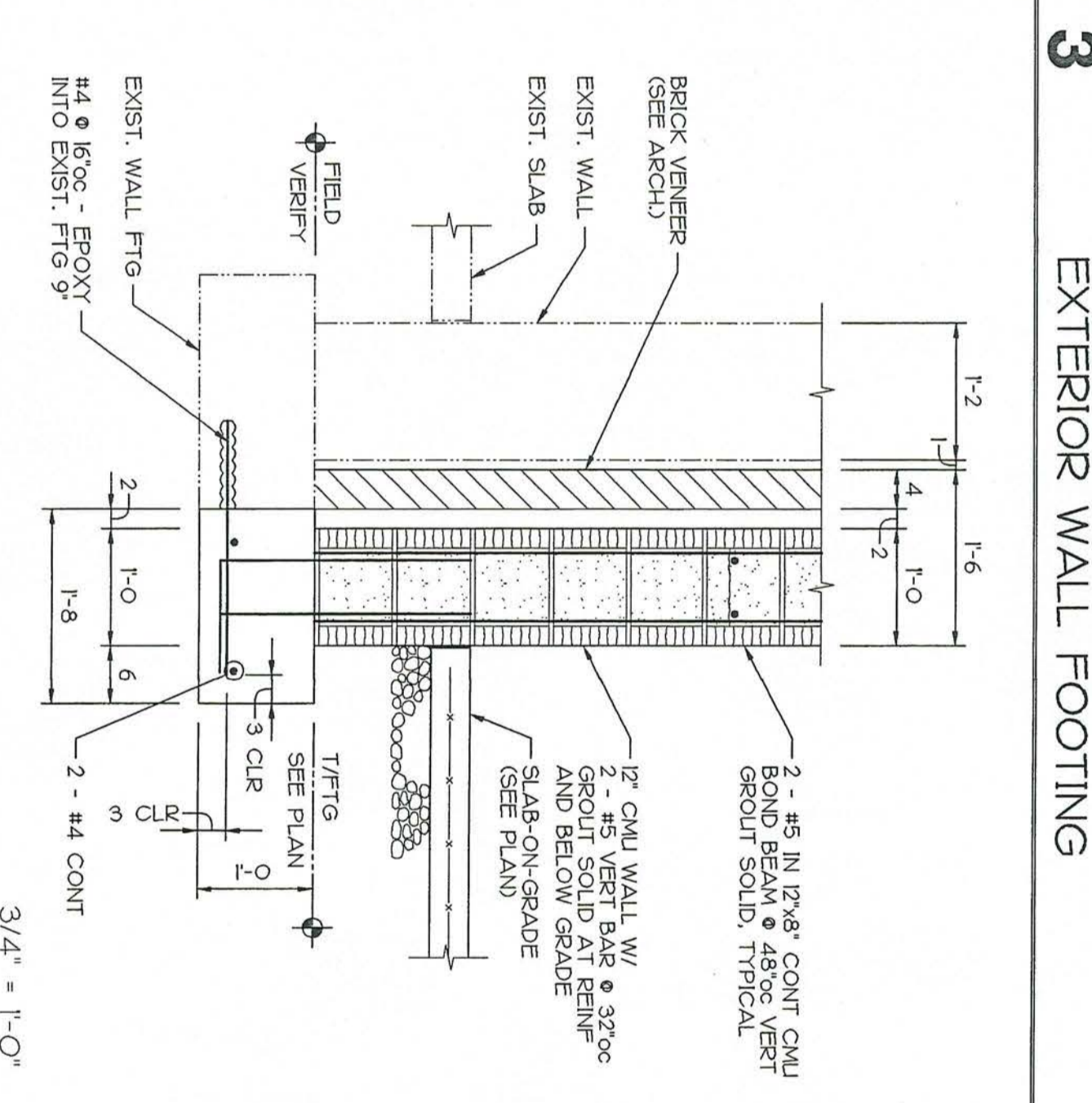
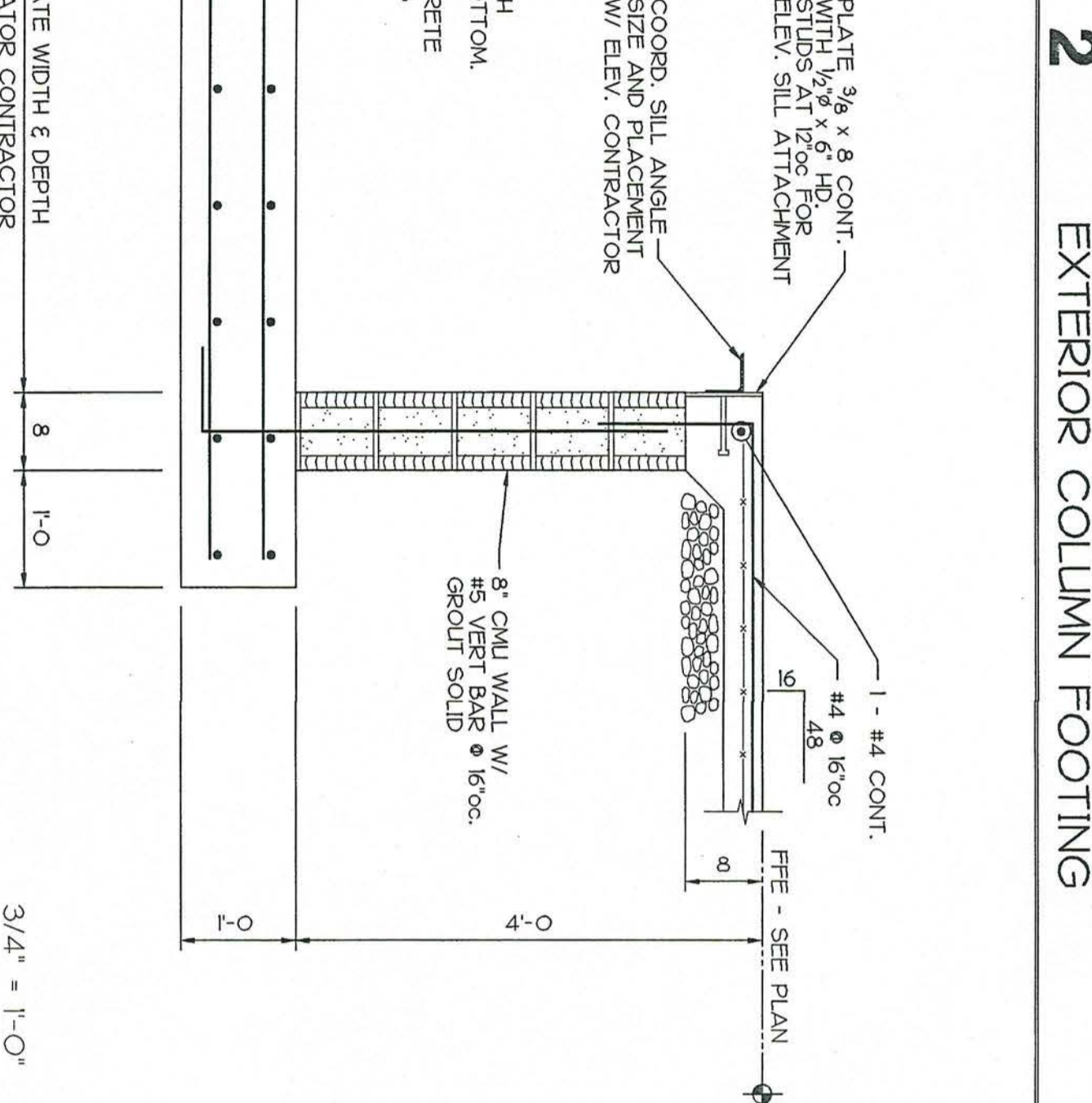
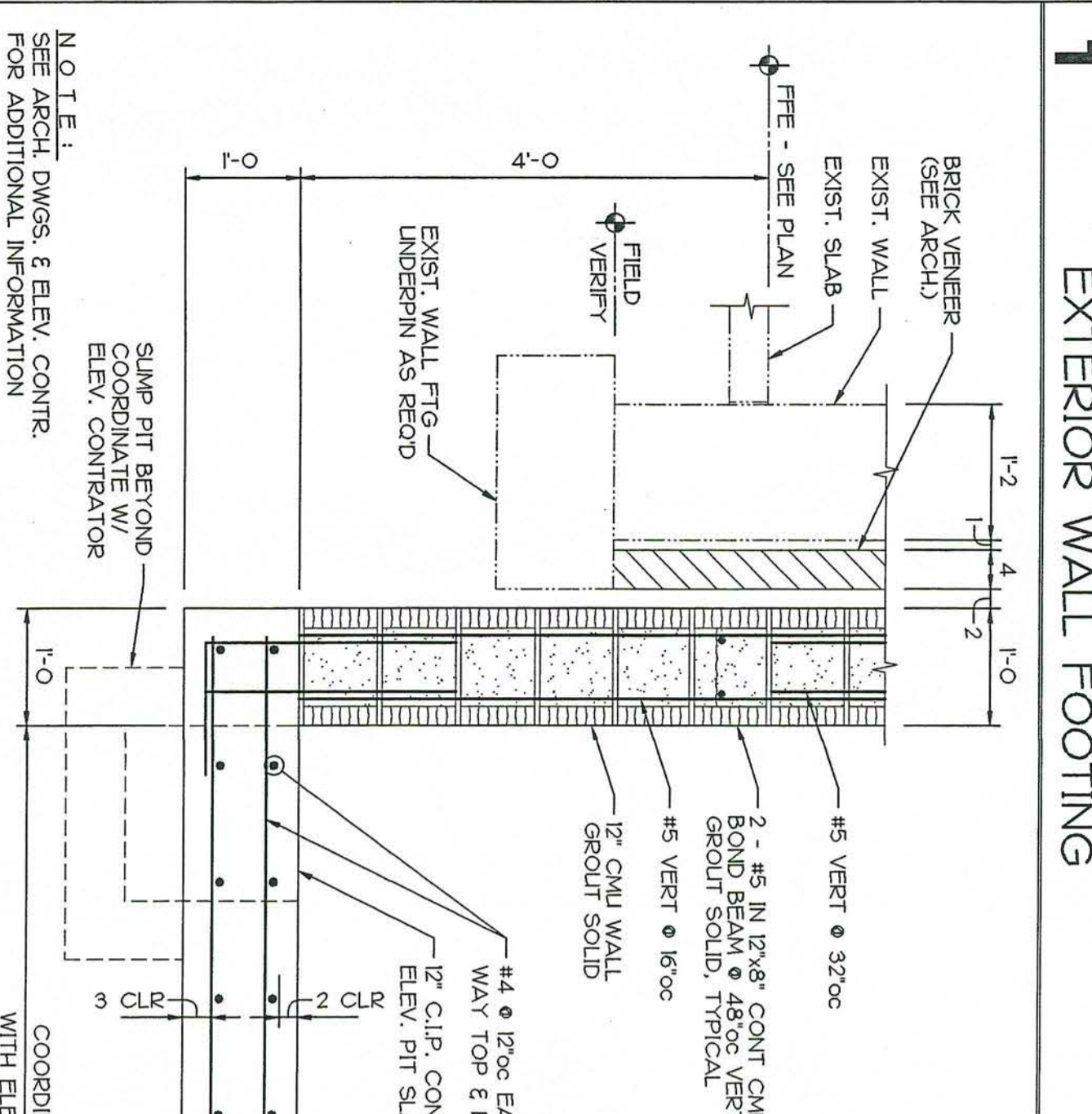
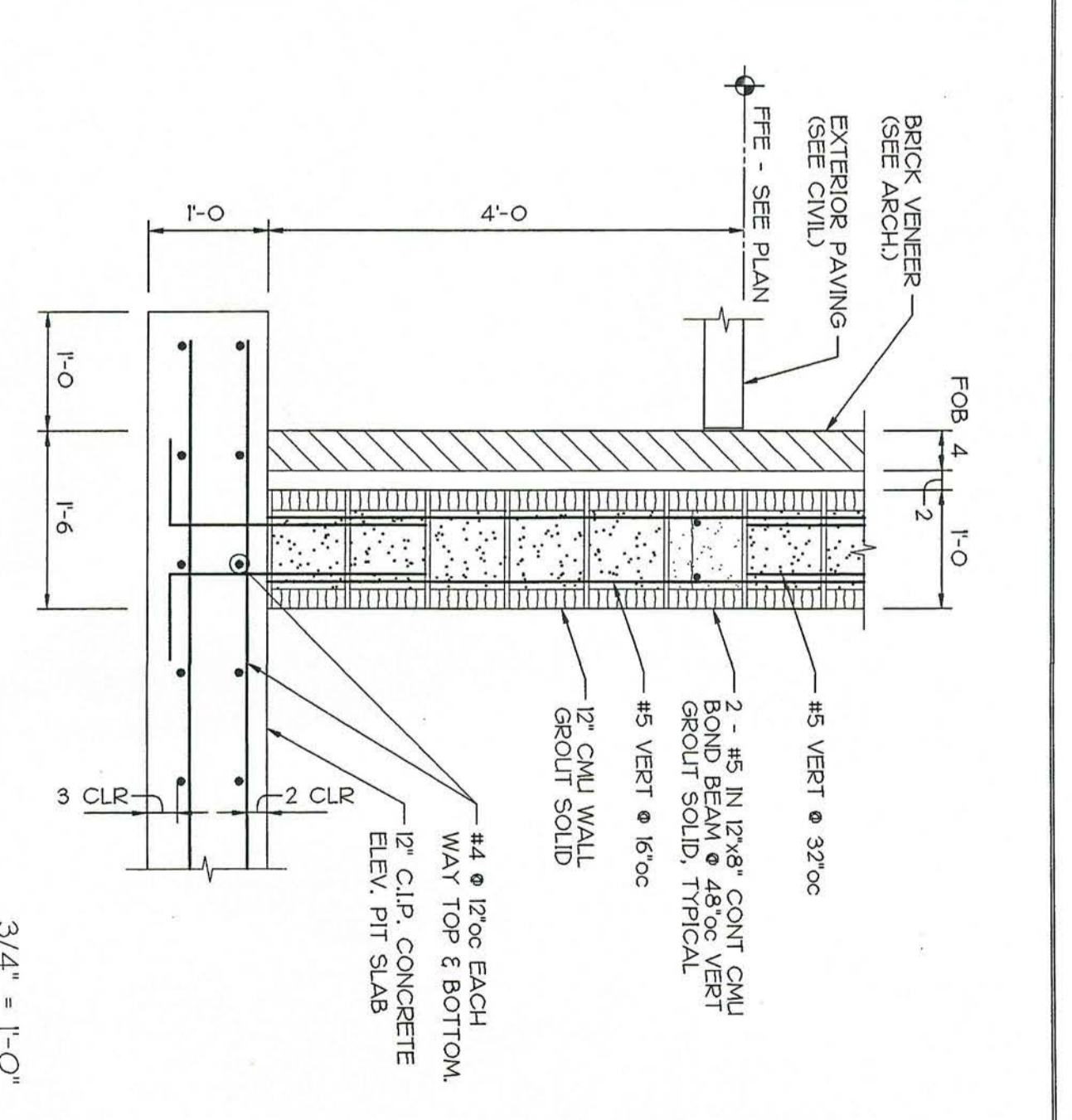
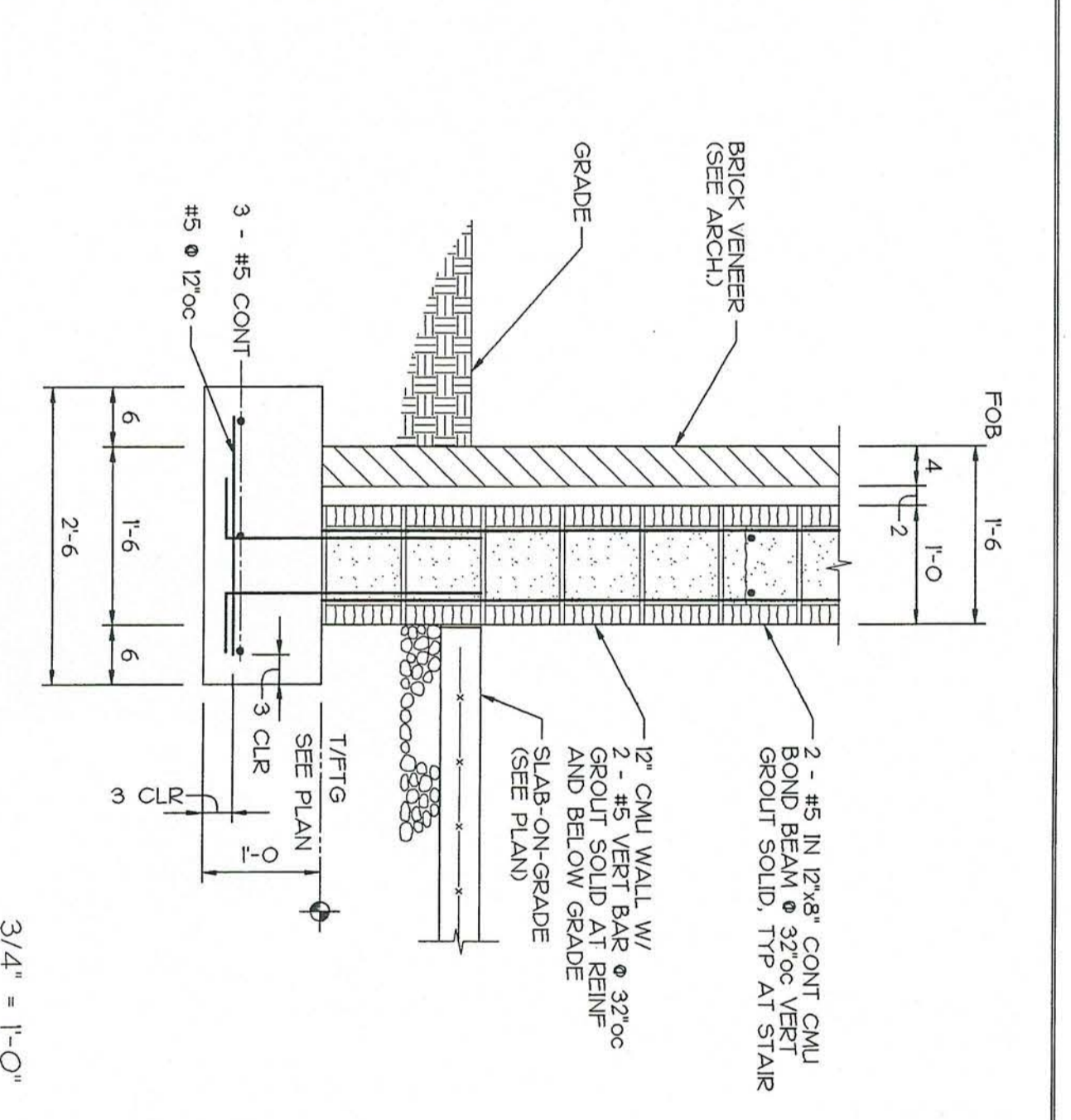
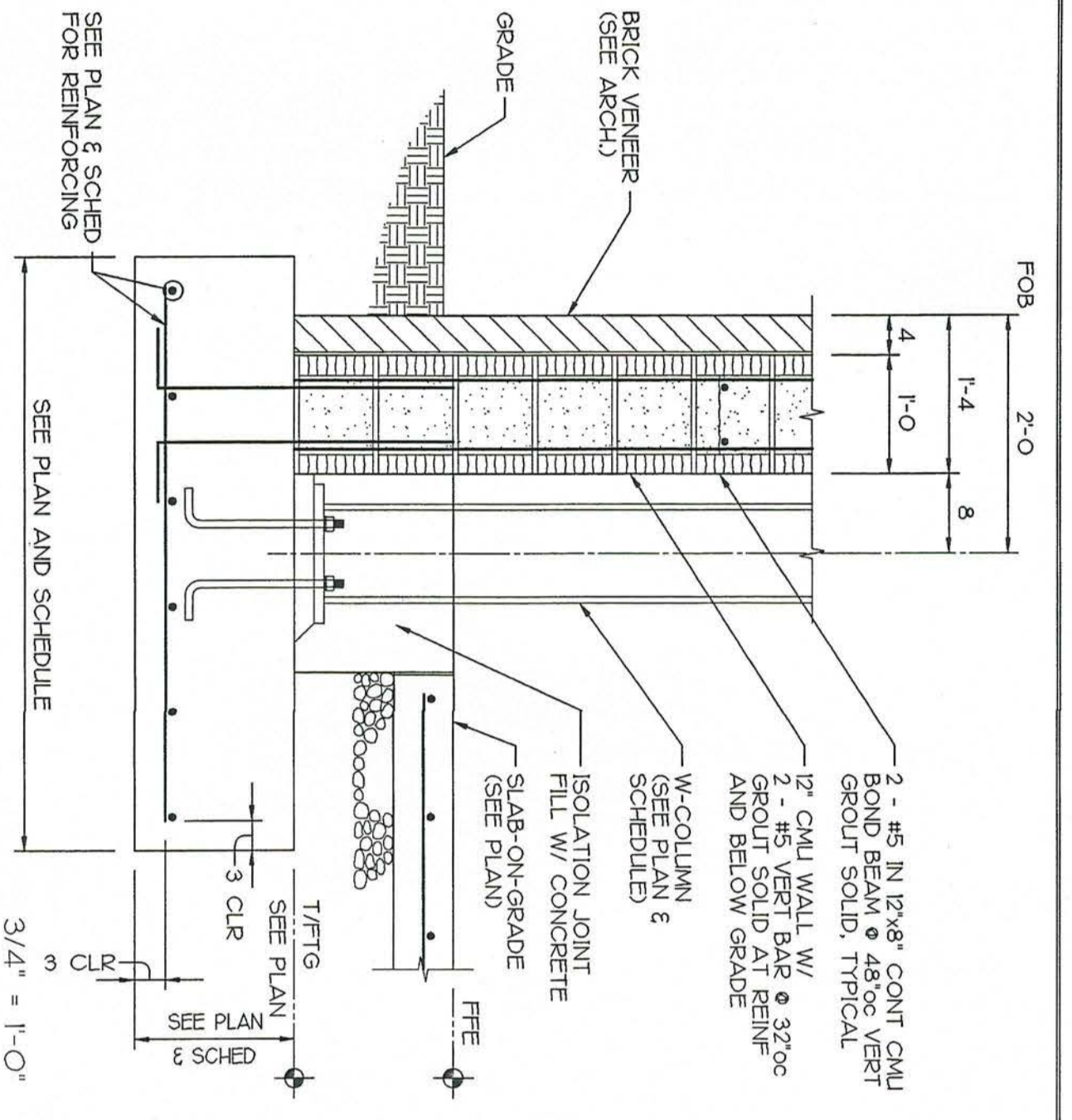
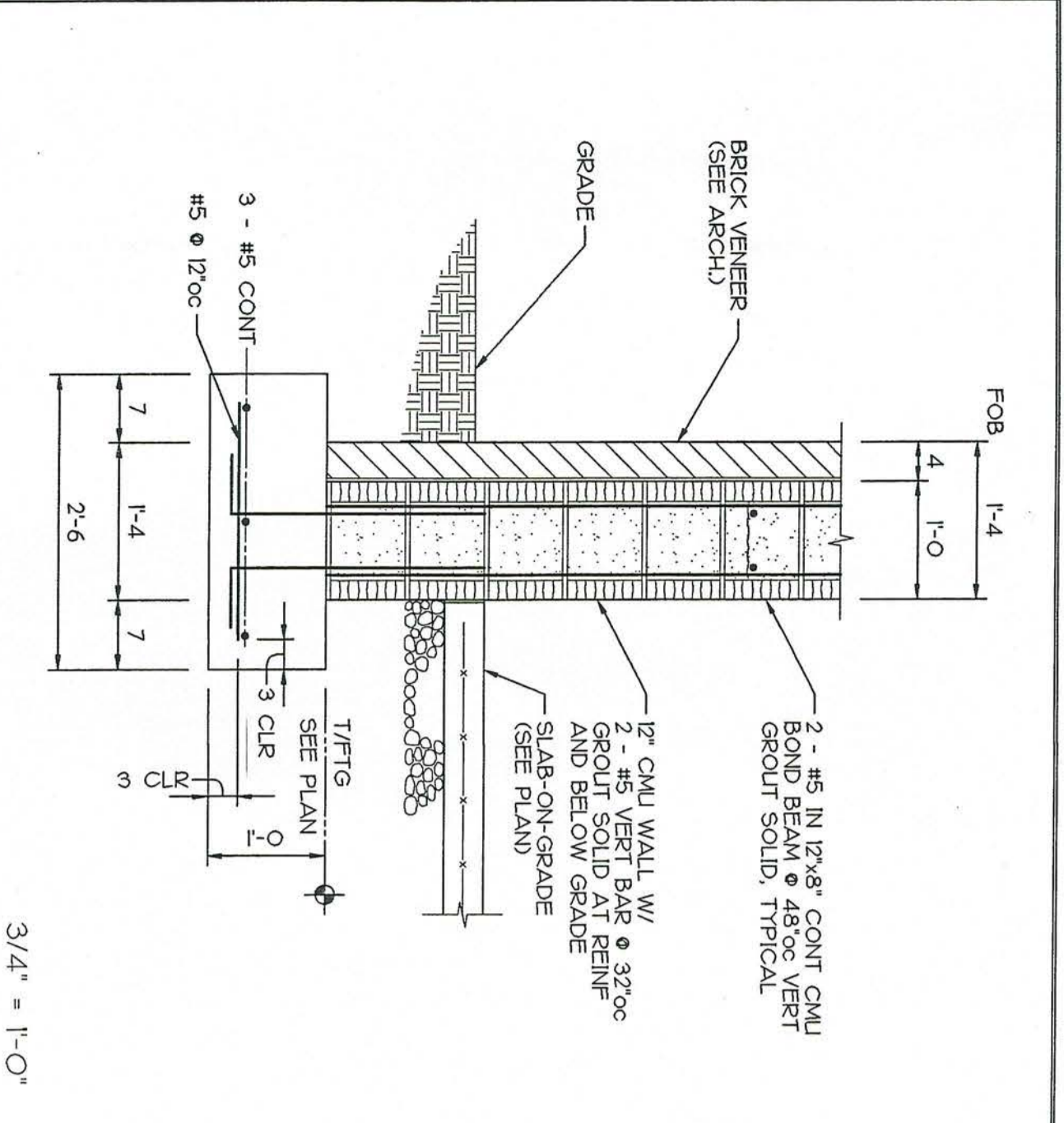
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fax: 803.926.7771

RENOVATIONS AND ADDITIONS FOR THE  
NEW PUBLIC SAFETY BUILDING  
Pine Knoll Shores, North Carolina

SECTIONS AND DETAILS

sheet 3.70  
5 of 9





1 EXTERIOR WALL FOOTING

2 EXTERIOR COLUMN FOOTING

3 EXTERIOR WALL FOOTING

4 SECTION AT ELEVATOR PIT

5 SECTION AT ELEVATOR PIT

7 SECTION AT EXISTING

8 SECTION AT INTERIOR CMU WALL

9 SECTION AT EXISTING

10 COLUMN FOOTING AT EXISTING

11 SECTION AT EXISTING

12 EXTERIOR WALL FOOTING

NO FIELD SLAB DETAIL FOR ADDITIONAL INFORMATION

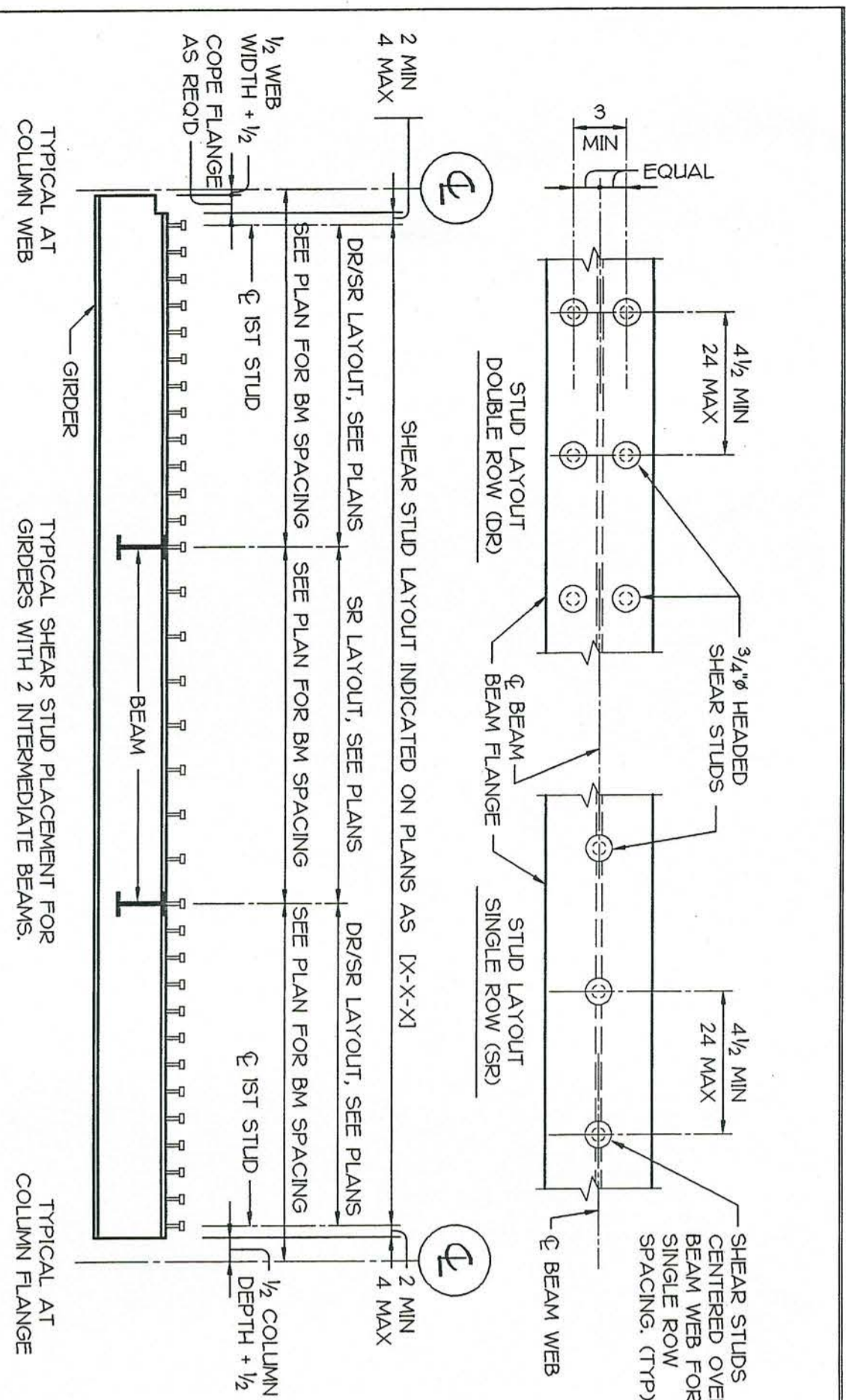
COORDINATE WIDTH & DEPTH WITH ELEVATOR CONTRACTOR

FIELD VERIFY

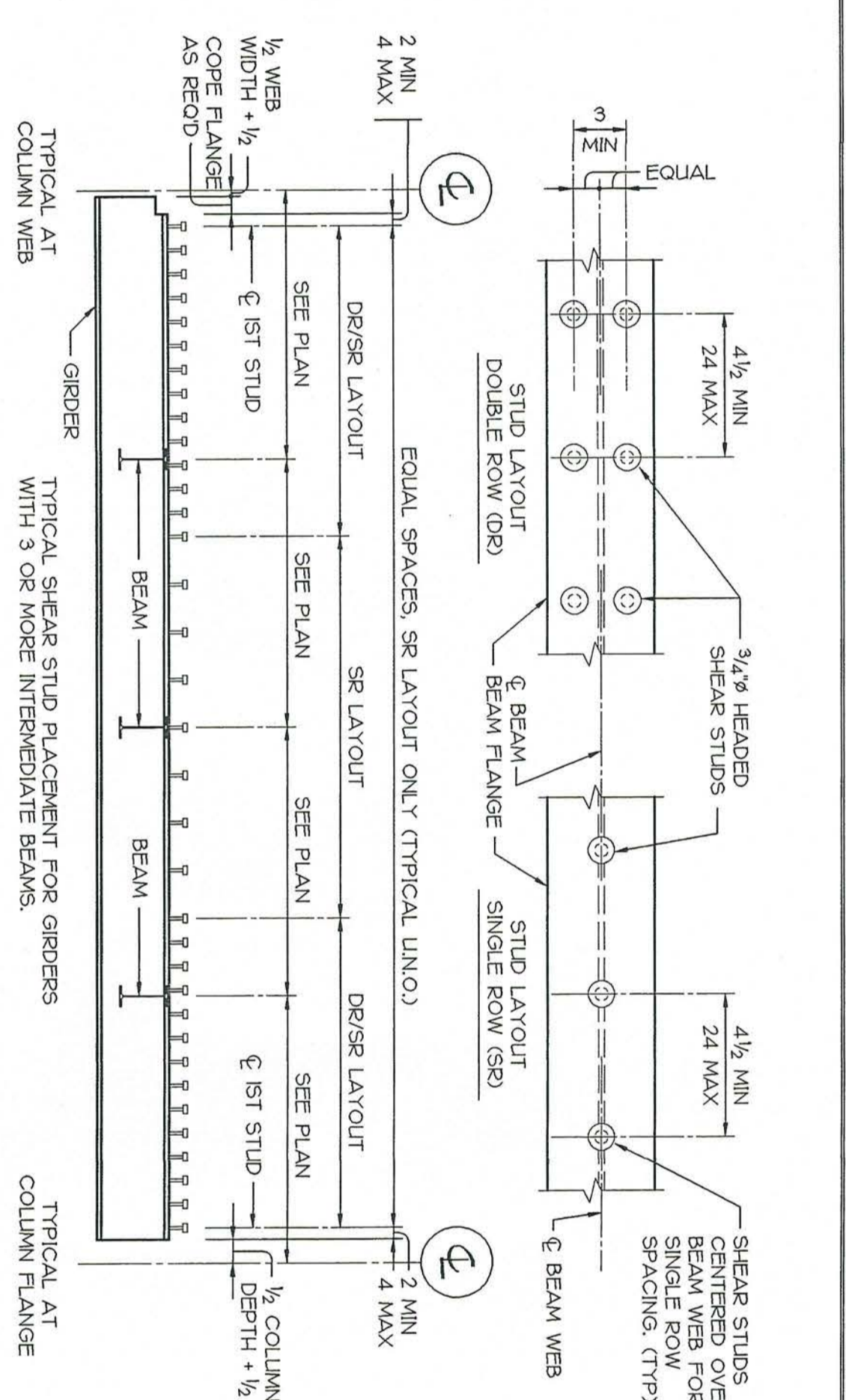
FIELD VERIFY

<p>RENOVATIONS AND ADDITIONS FOR THE NEW PUBLIC SAFETY BUILDING Pine Knoll Shores, North Carolina</p>		<p><b>Stewart-Cooper-Newell-Architects</b> Planning Architecture Interiors</p>	<p>719 east second ave. gastonia, nc 28054 phone: 704.865.8311 fax: 704.865.0048</p>	<p>108 inview road #109 w. columbia, sc 29169 phone: 803.926.7722 fax: 803.926.7771</p>	<p><b>COGGIN CARRARA, INC.</b> 2002 BY: COGGIN CARRARA, INC. 3717 LATROBE DRIVE SUITE 760 CHARLOTTE, NC 28211 704-442-1059 704-442-1057 FAX SERVICE WWW.COGGINCARRARA.COM JOB NUMBER: 1282</p>	<p>Project No. <b>999</b></p>
						<p>Date 08-01-02 Drawn CRG Checked ADC Revisions</p>
<p>SECTIONS AND DETAILS</p>		<p>sheet <b>3.71</b> 6 of 9</p>		<p>www.scn-architects.com</p>		

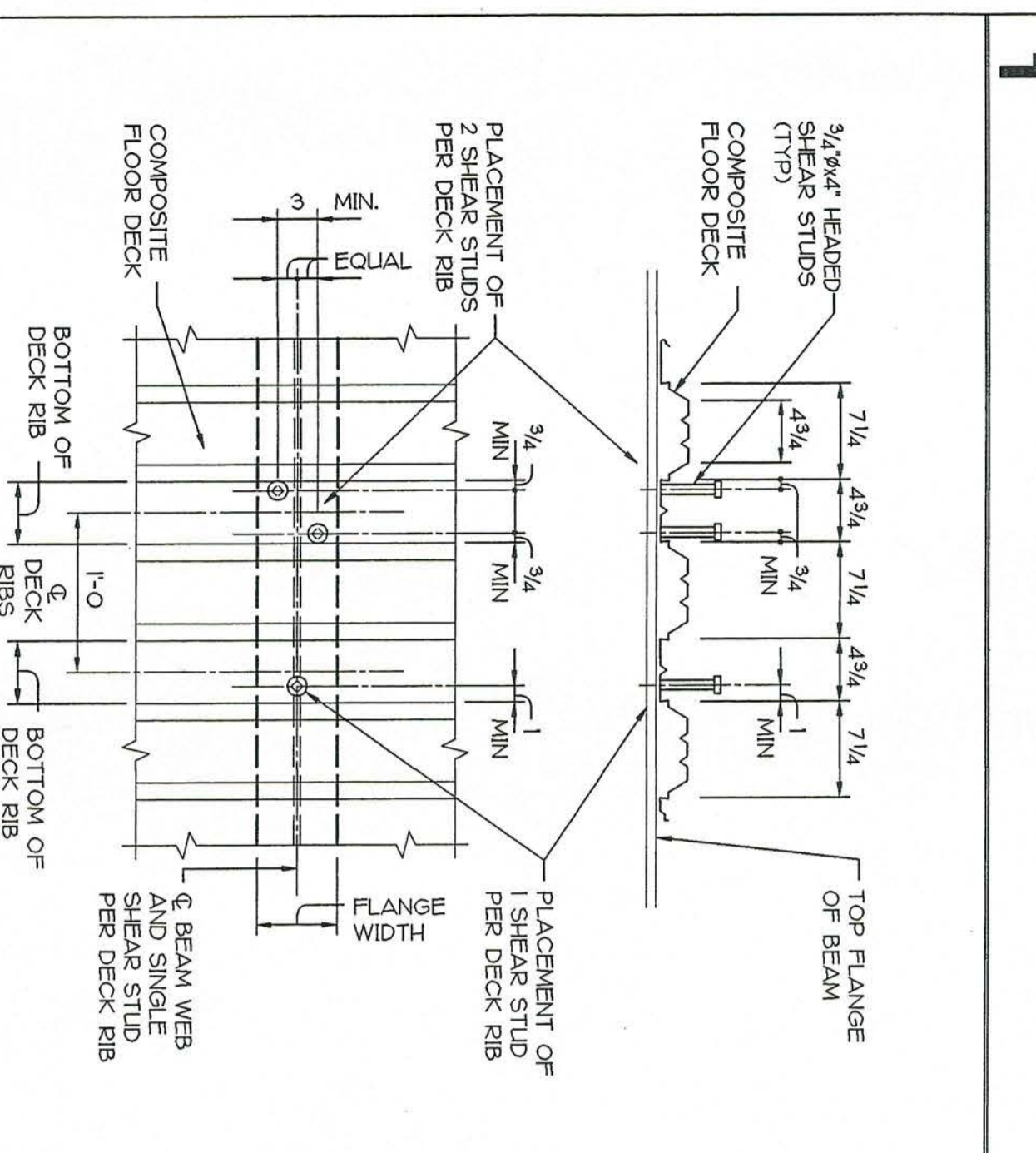




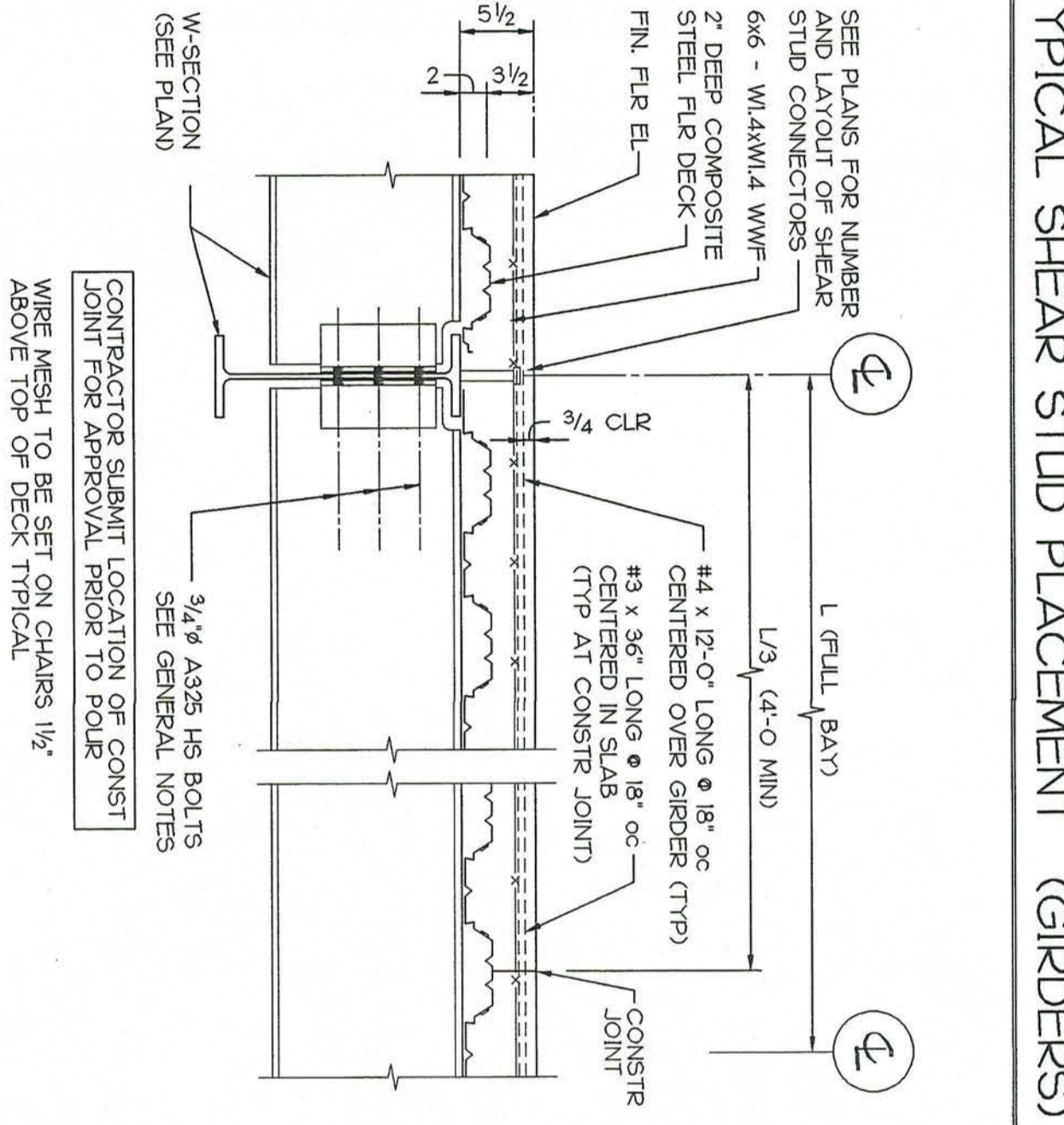
1 GIRDER W/ TWO SUPPORTED BEAMS



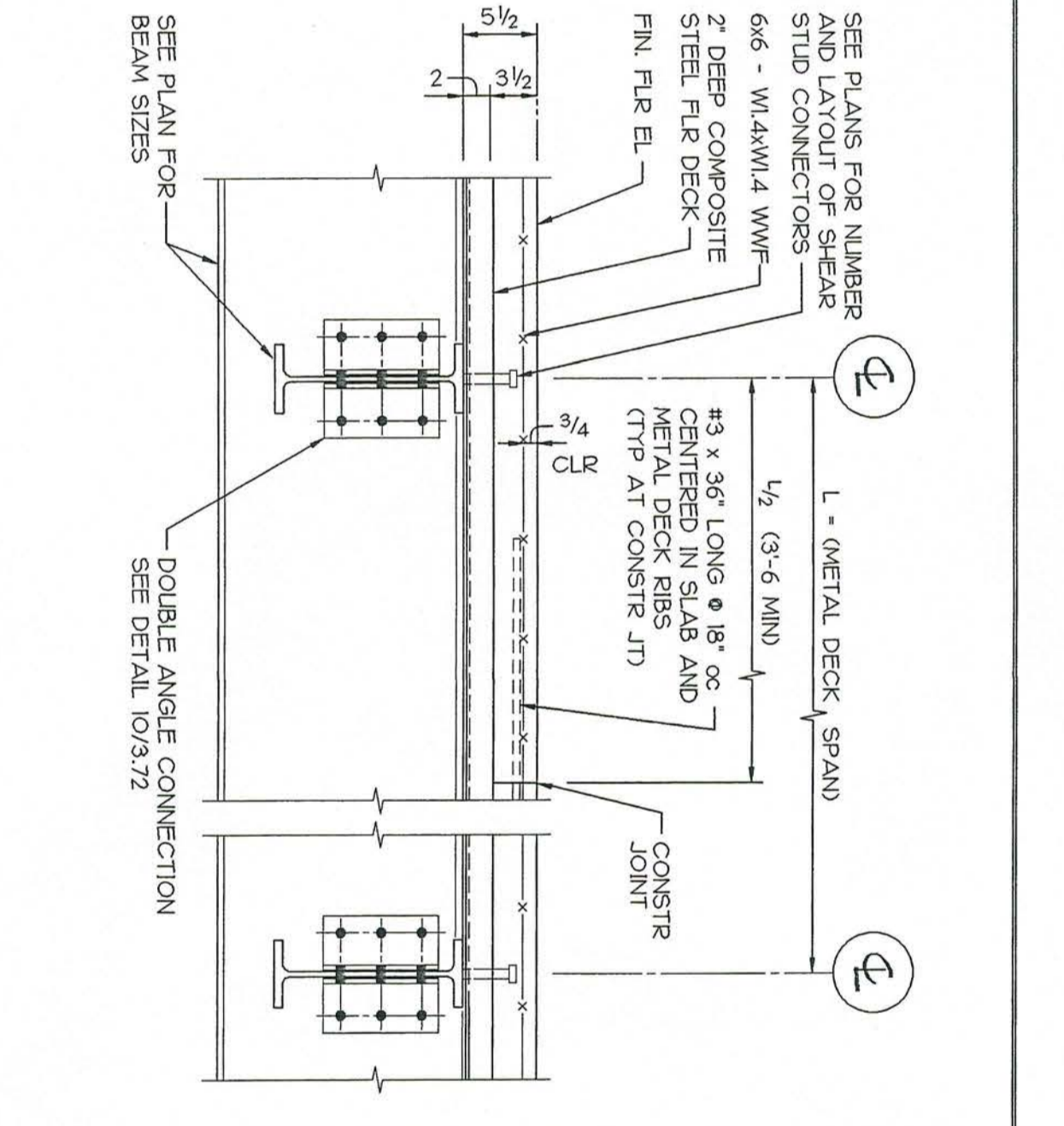
4 TYP. SHEAR STUD PLACEMENT (BEAMS)



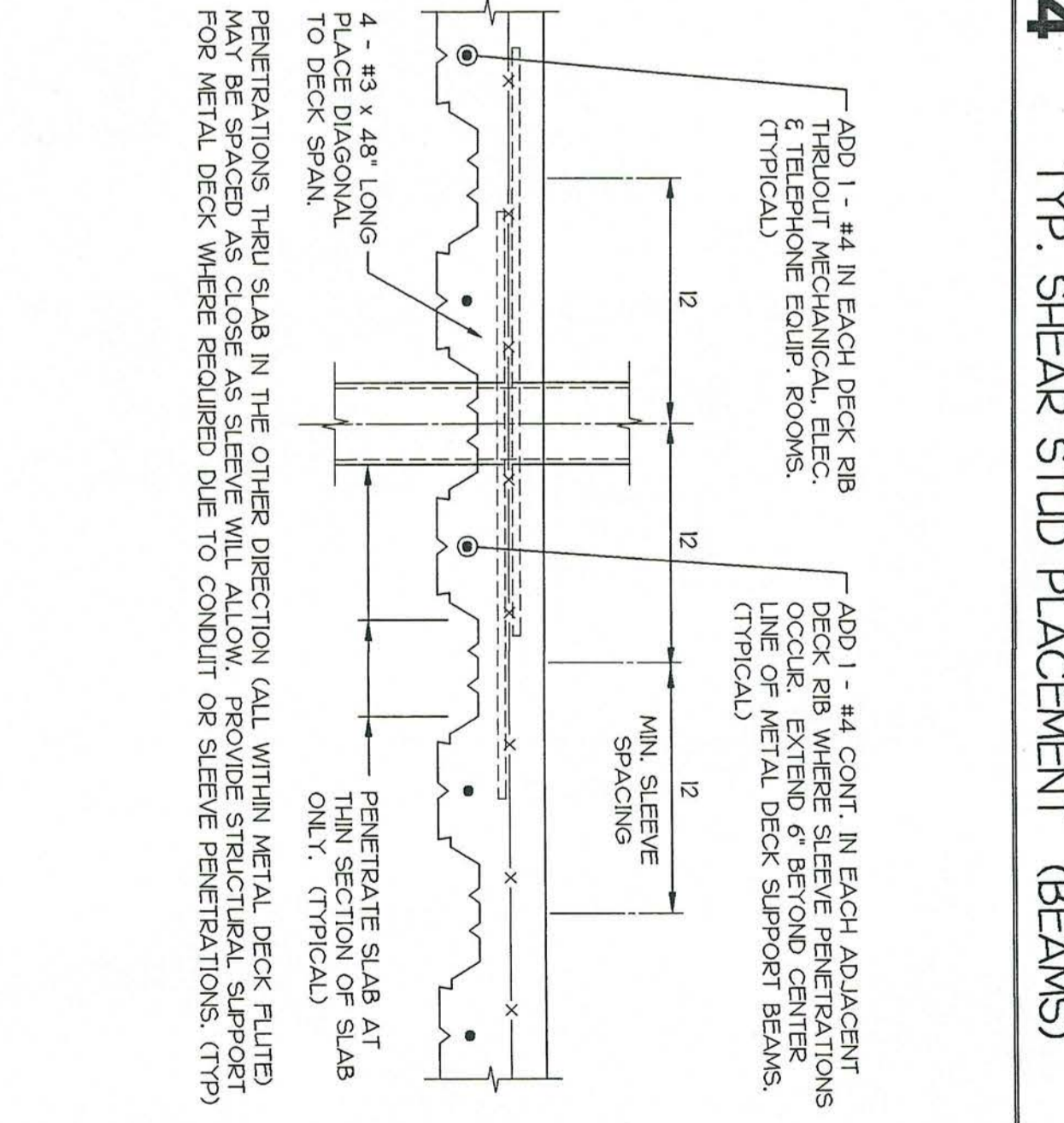
5 TYP SHEAR STUD PLACEMENT - BEAMS



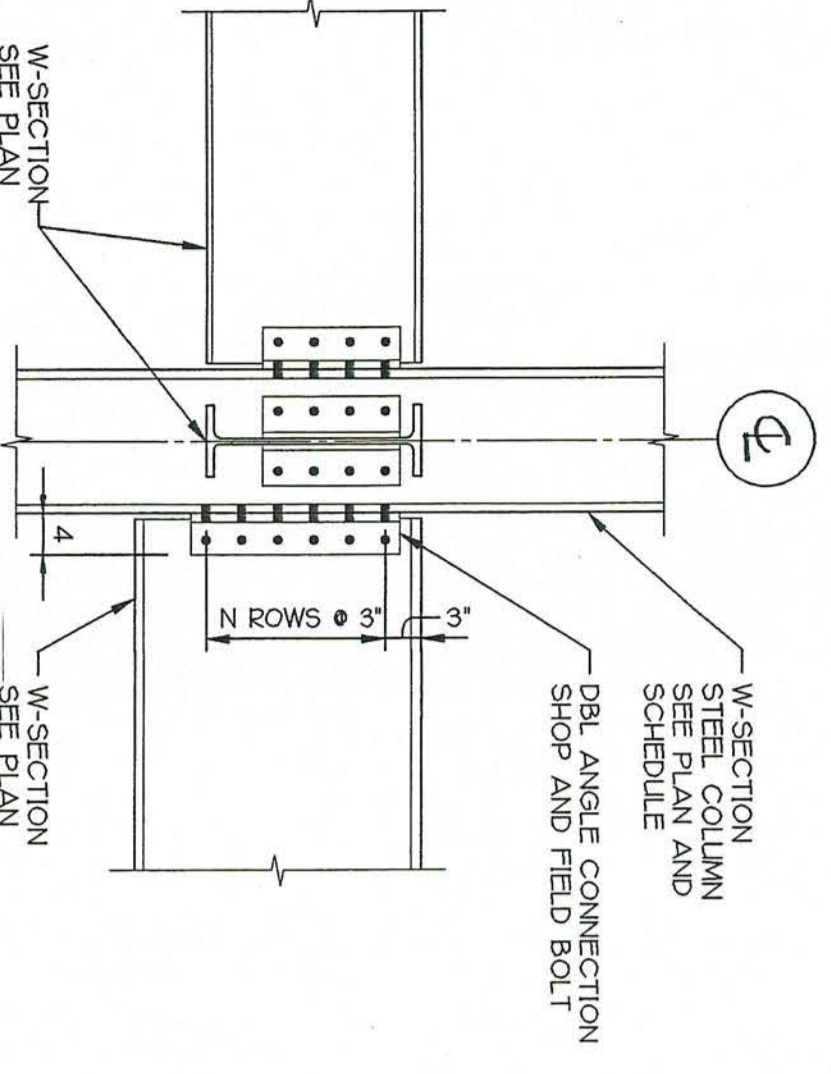
6 TYPICAL INTERIOR GIRDER SECTION



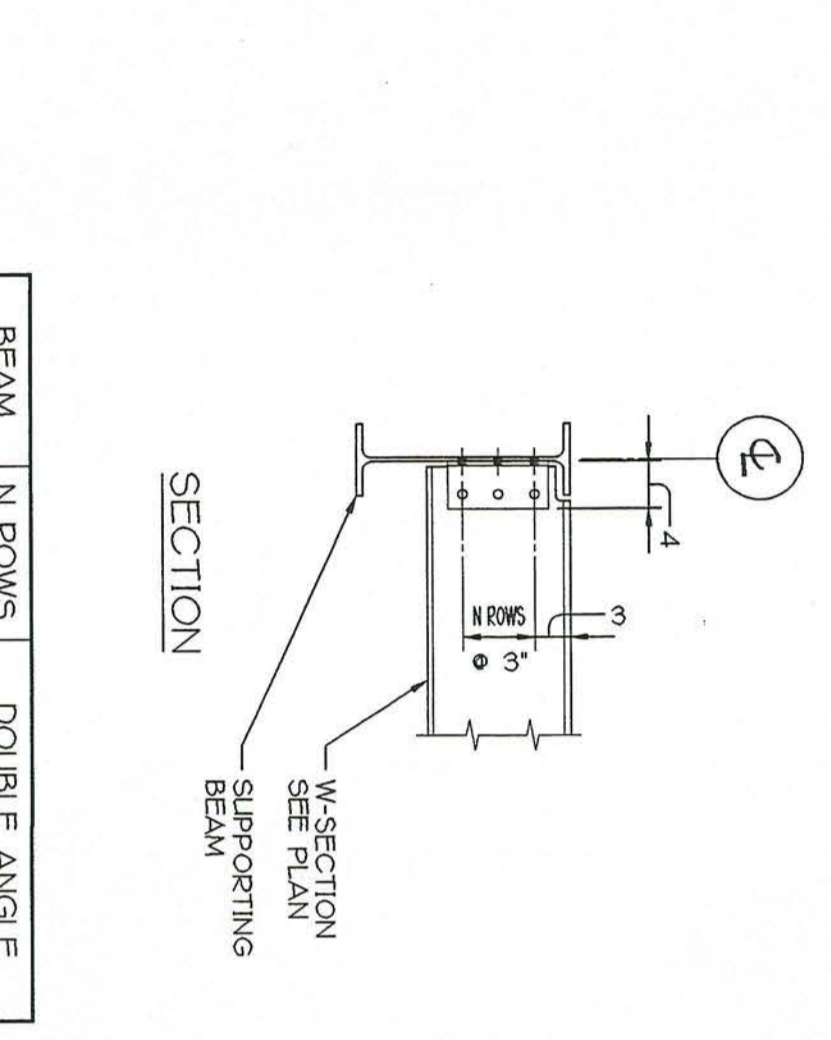
7 TYPICAL INTERIOR BEAM SECTION



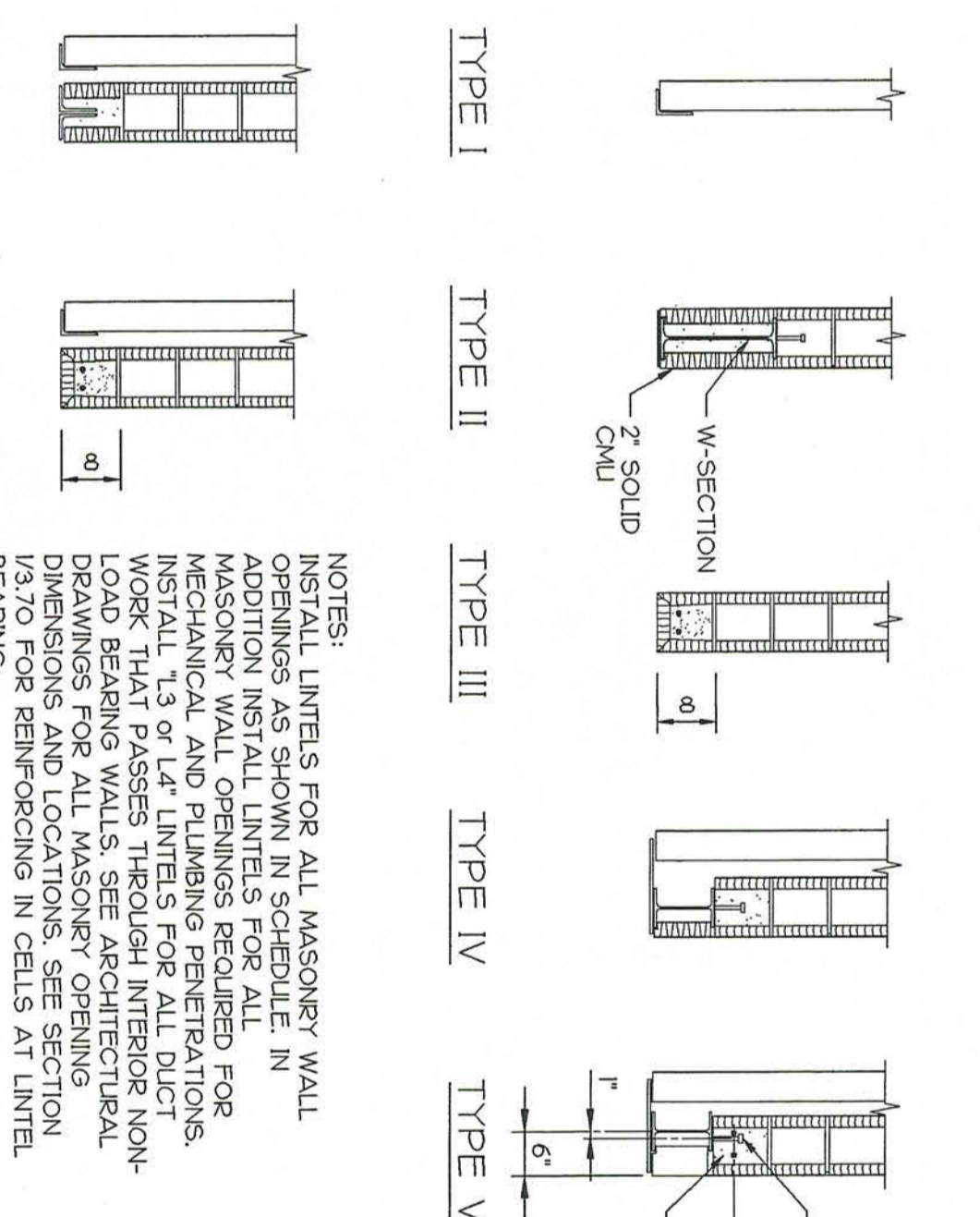
8 TYPICAL FLOOR SLAB PENETRATION



9 TYPICAL BEAM TO COLUMN CONNECTION



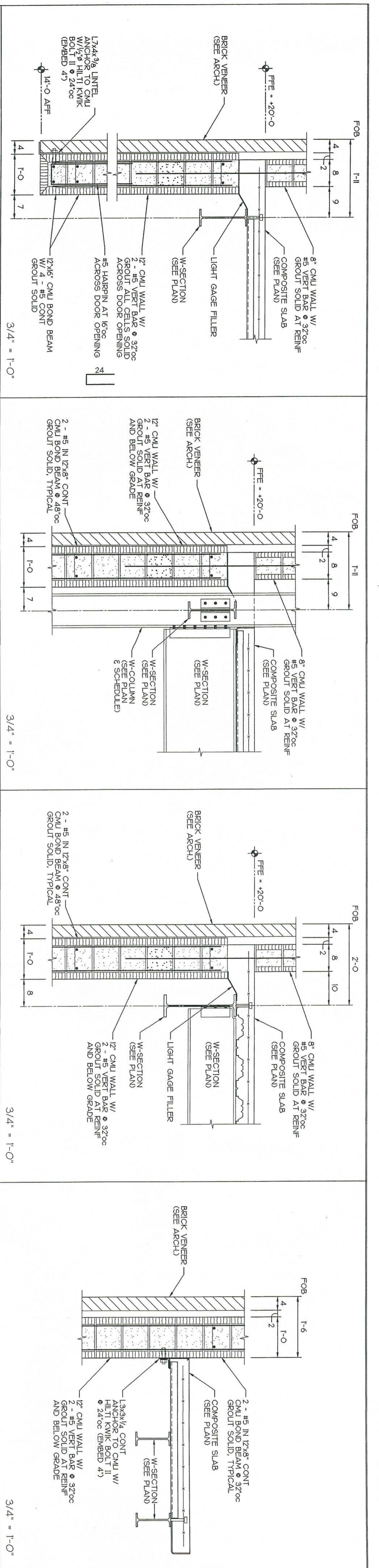
10 TYP. BEAM TO BEAM CONNECTION



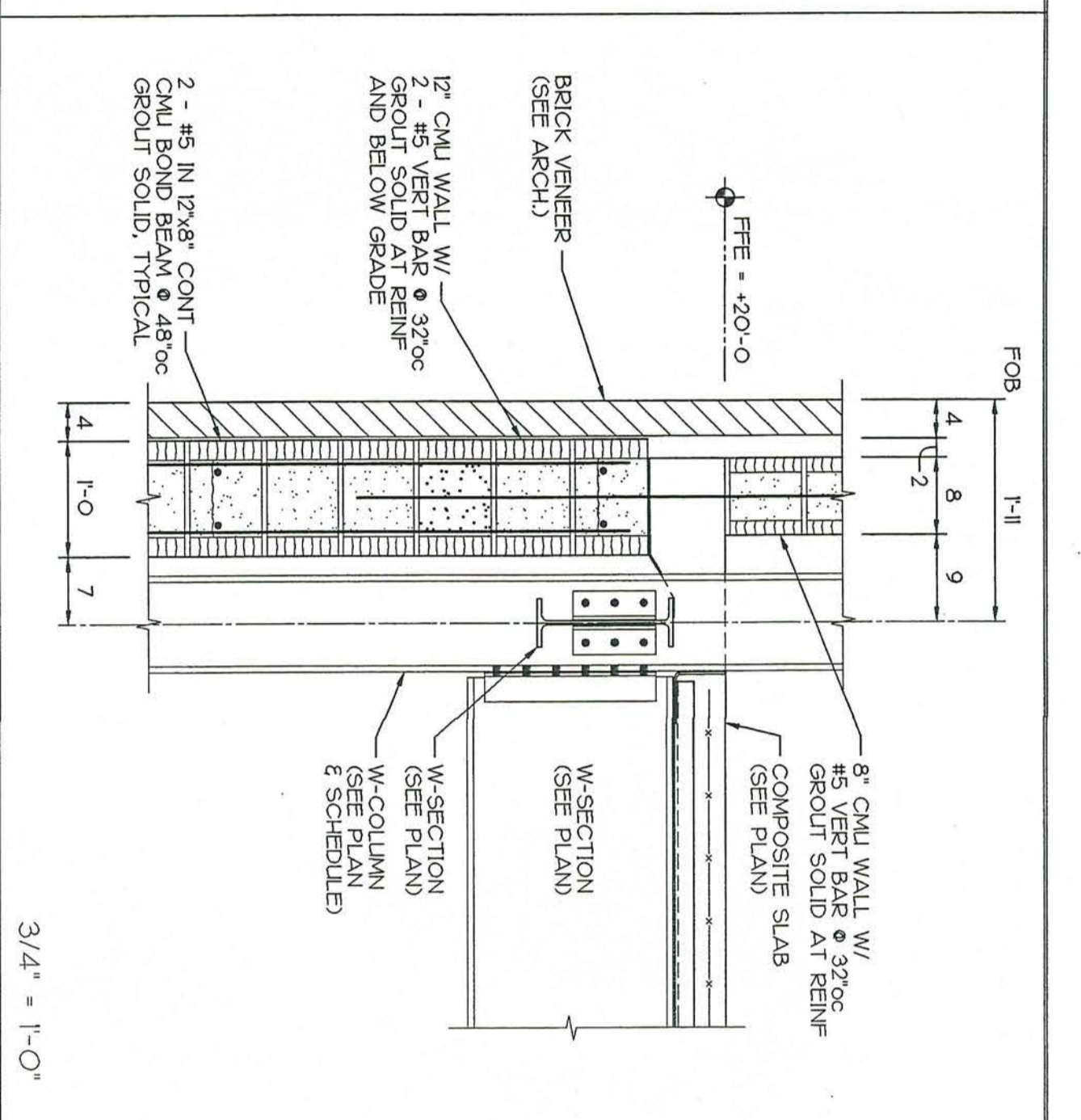
11 MASONRY LINTEL DETAILS & SCHEDULE

MARK	LINTEL TYPE	MAX SPAN	WALL CONSTRUCTION	LINTEL DESCRIPTION
L1	I	6'-0"	4" BRK	L3 1/2 x 3 1/2 W/4
L2	I	14'-0"	4" BRK	L7 x 4 3/8
L3	III	8'-0"	8" CMU	BOND BEAM W/ 2#5
L4	III	9'-4"	12" CMU	BOND BEAM W/ 2#5
L5	V	9'-4"	4 BRK-6" CMU	W8 x 8 PL/Lx14d
L6	V	9'-4"	4 BRK-12" CMU	W8 x 8 PL/Lx18
L7	VII	6'-0"	4 BRK-8" CMU	L3 1/2 x 3 1/2 + BB W/ 2#5
L8	II	14'-0"	12" CMU	W6 x 65 PL/Lx14d
L9				
L10				
L11				
L12				
L13				
L14				
L15				
L16				

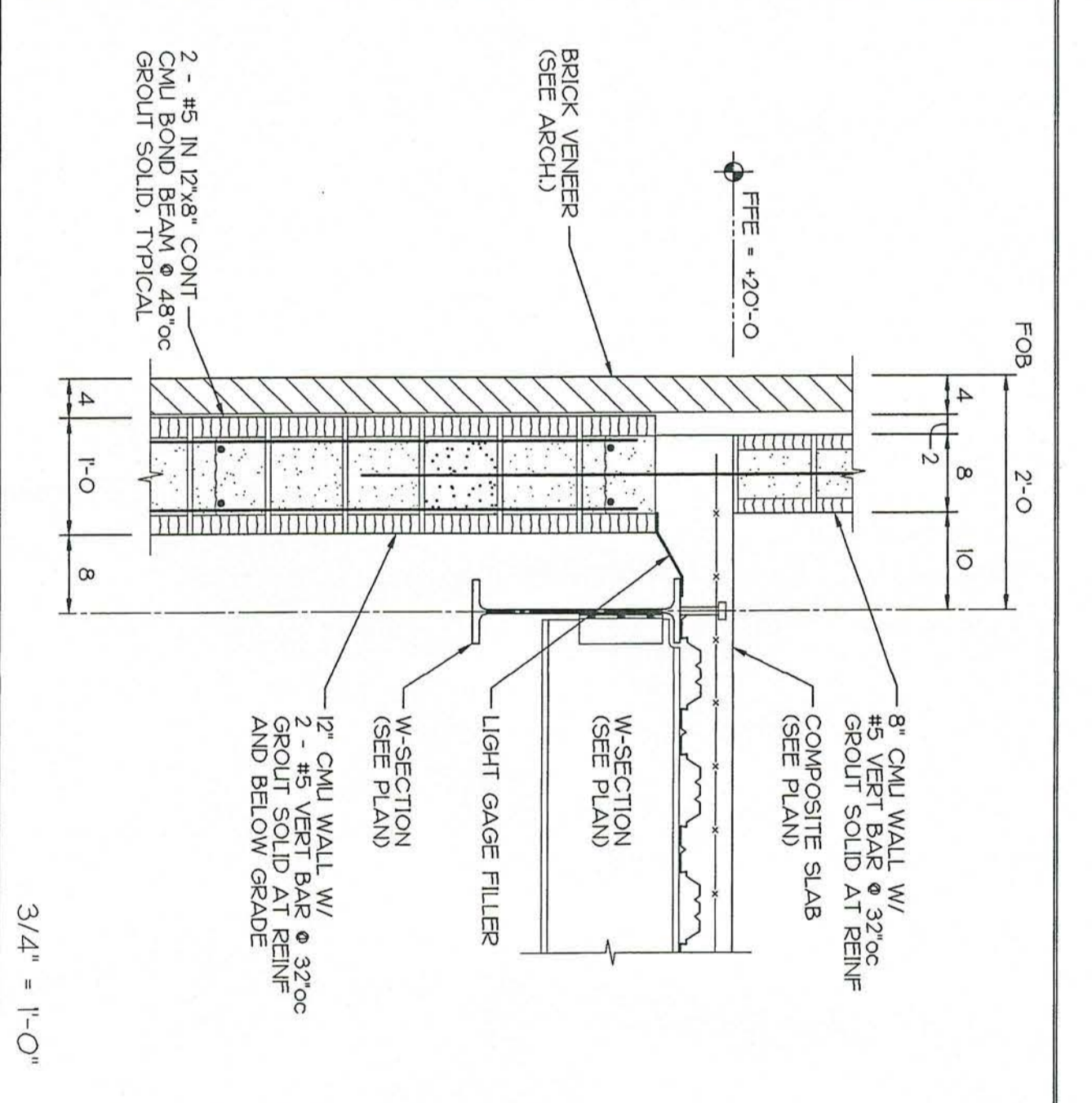




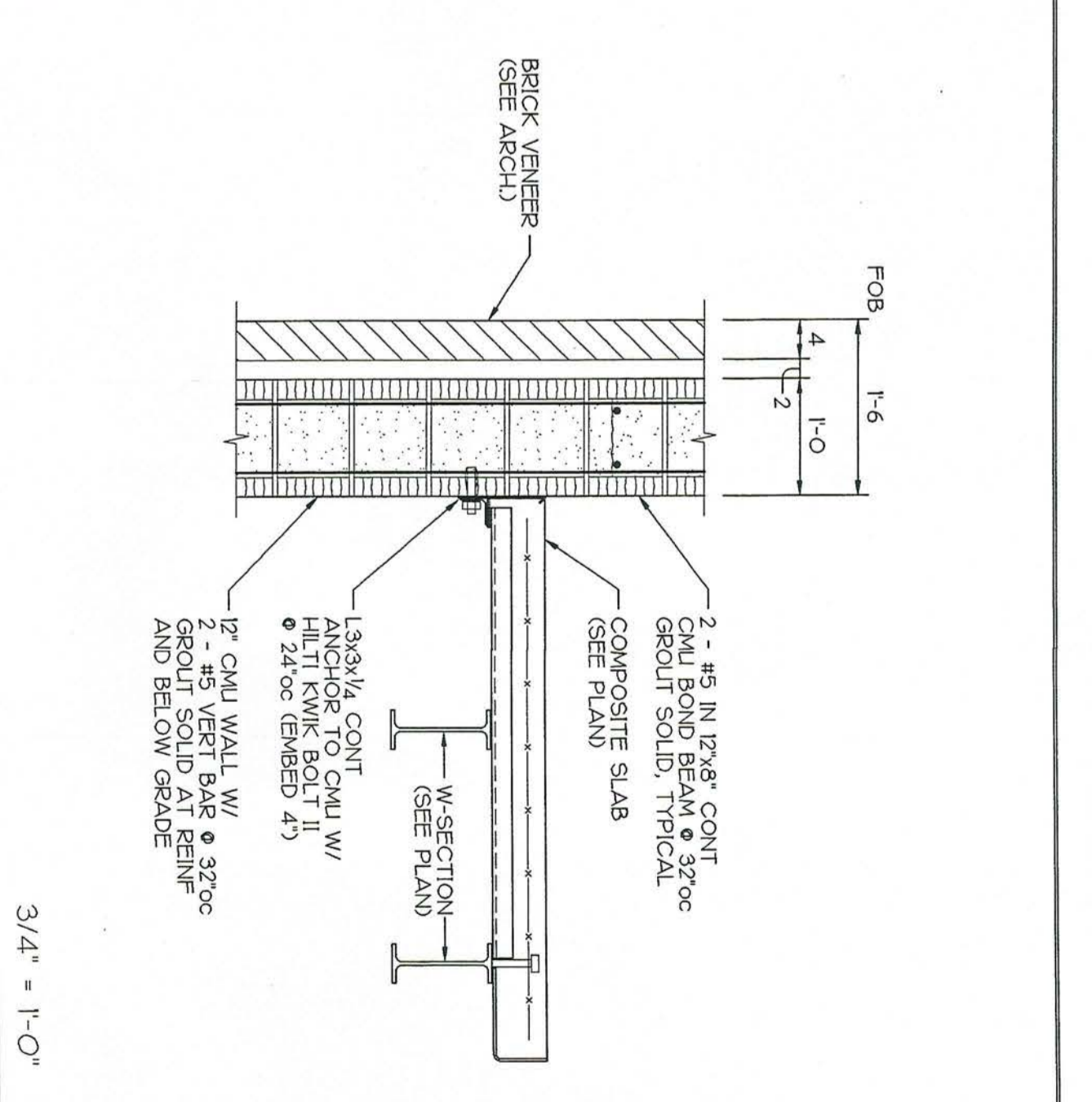
1 SECTION AT EXTERIOR WALL



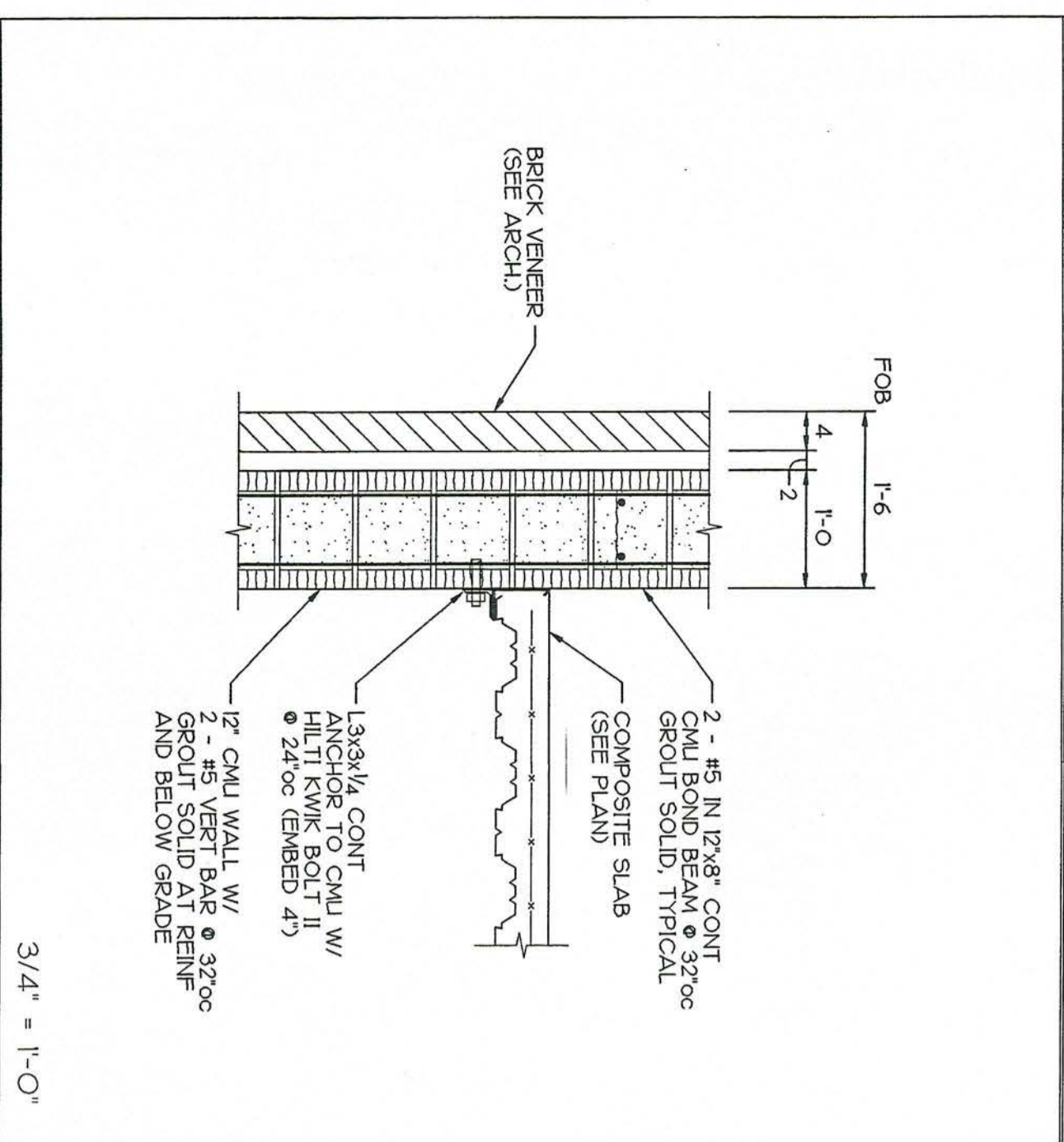
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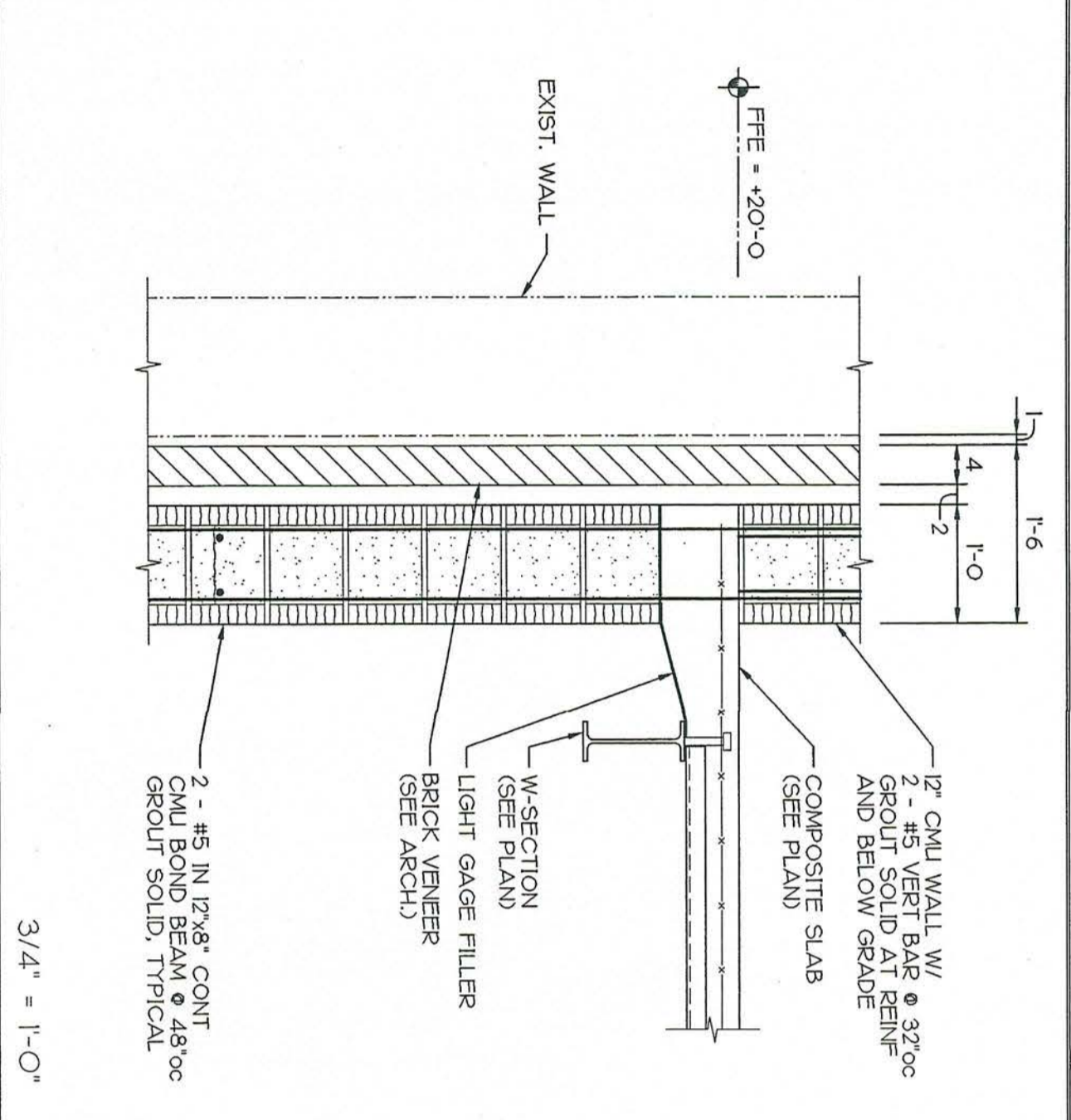
3 SECTION AT EXTERIOR WALL



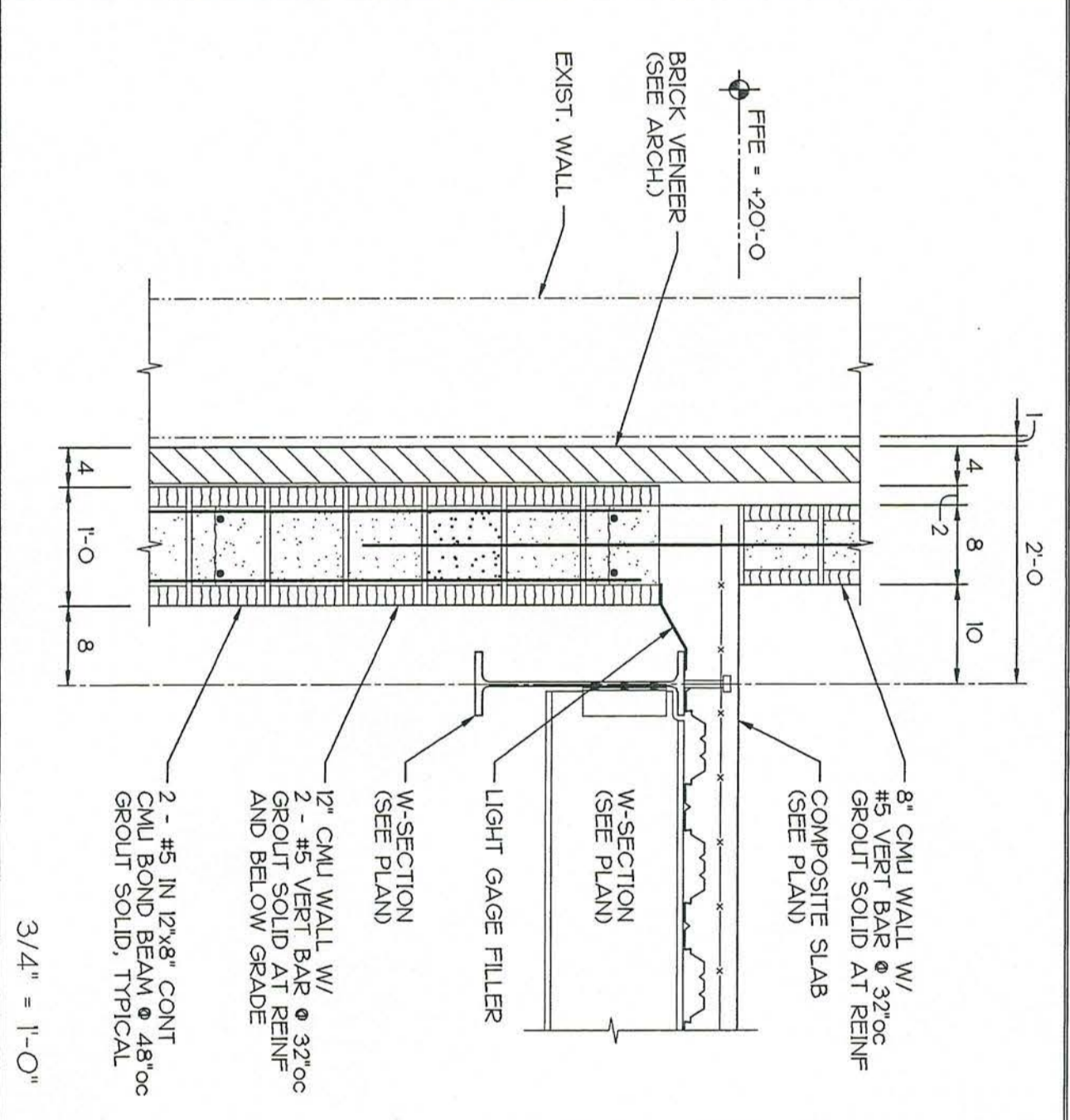
4 SECTION AT STAIR



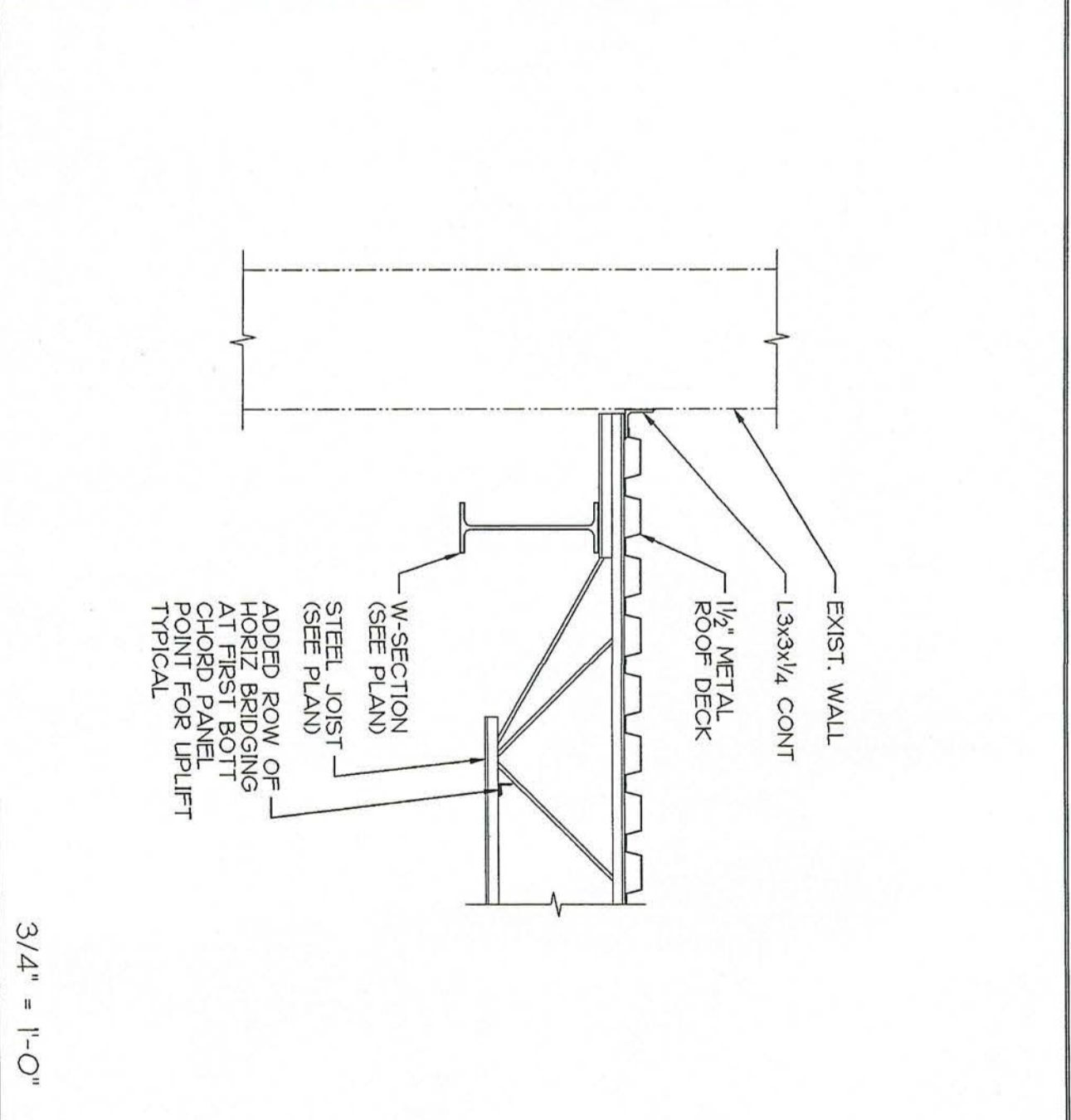
5 SECTION AT STAIR



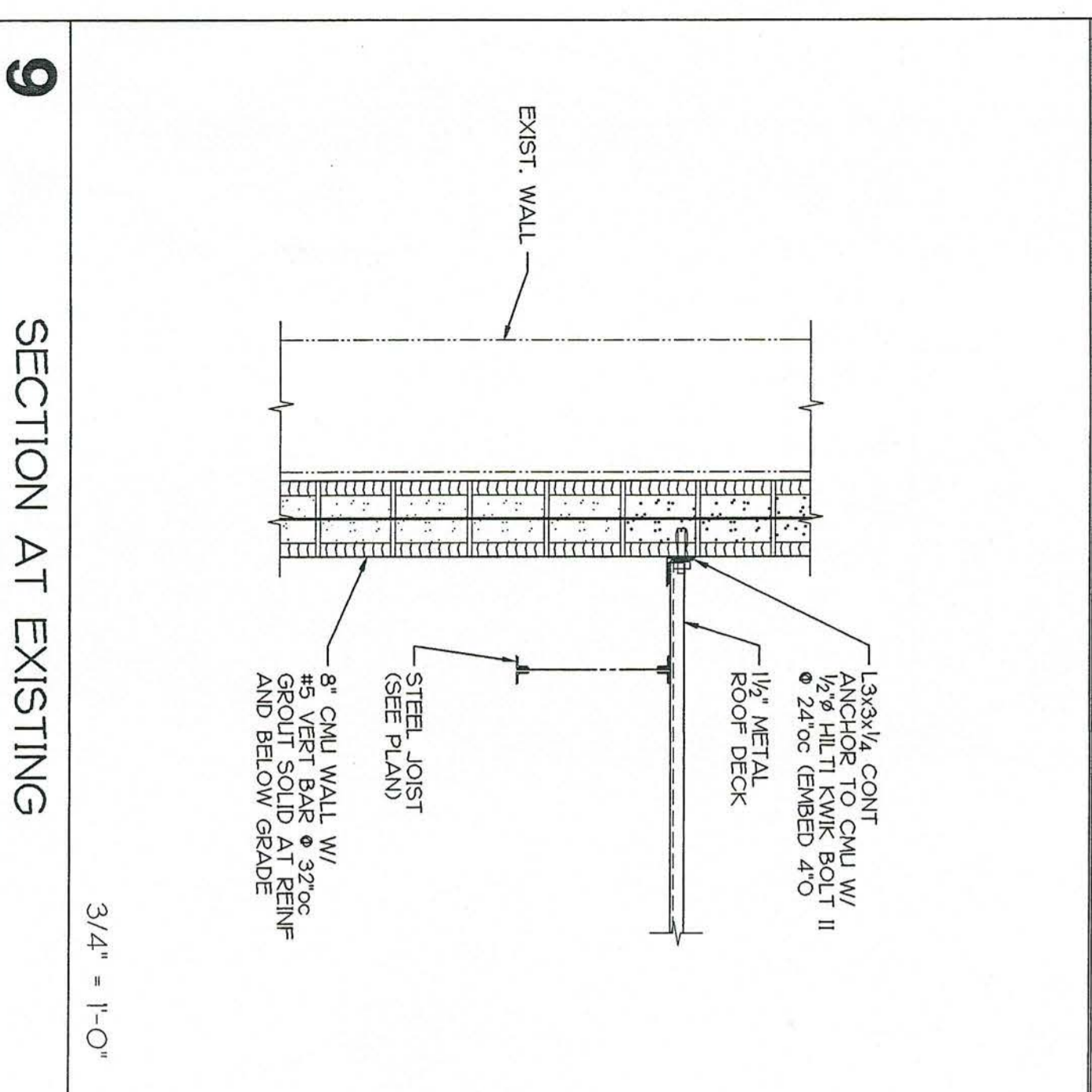
6 SECTION AT EXISTING



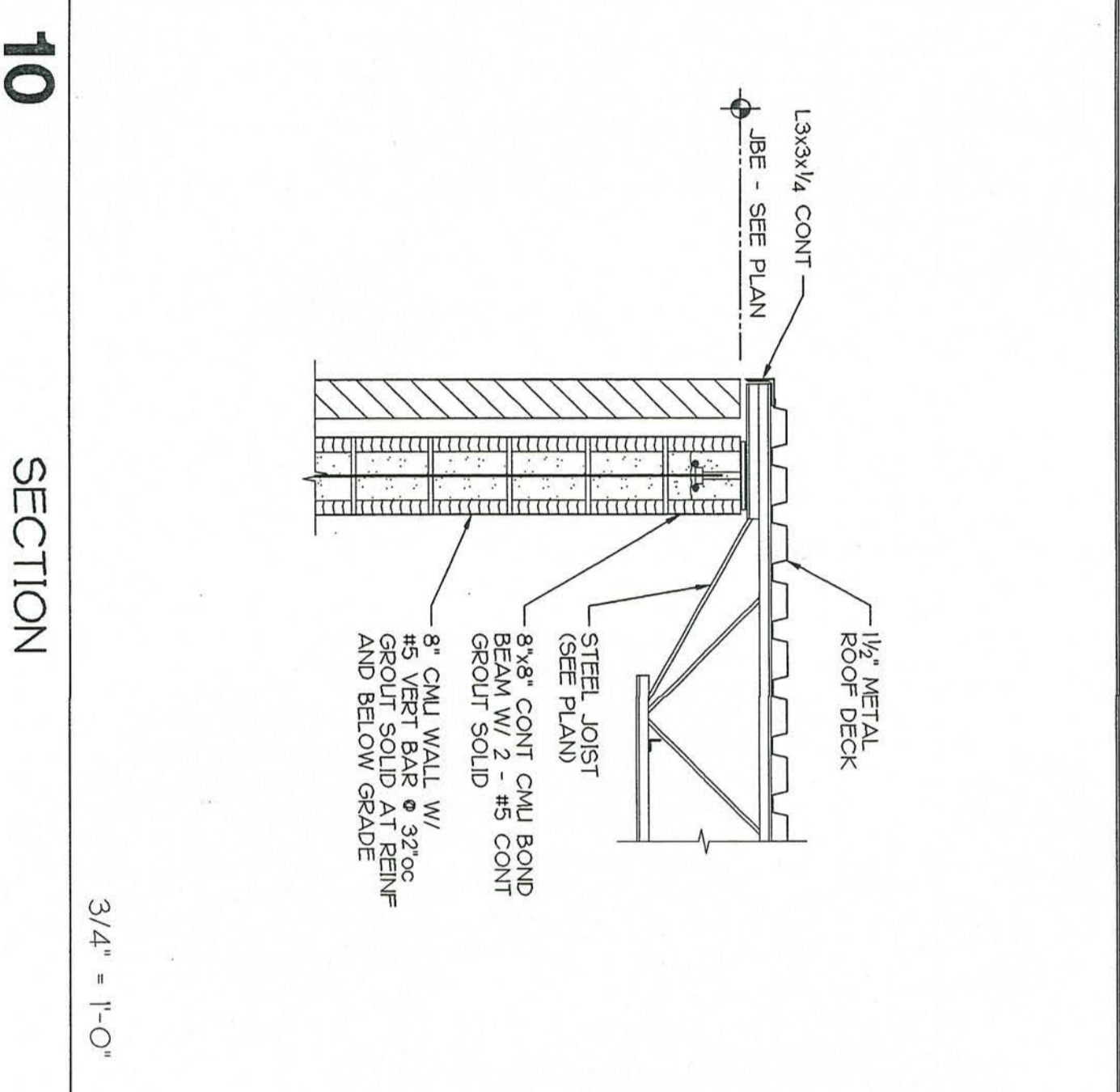
7 SECTION AT EXISTING



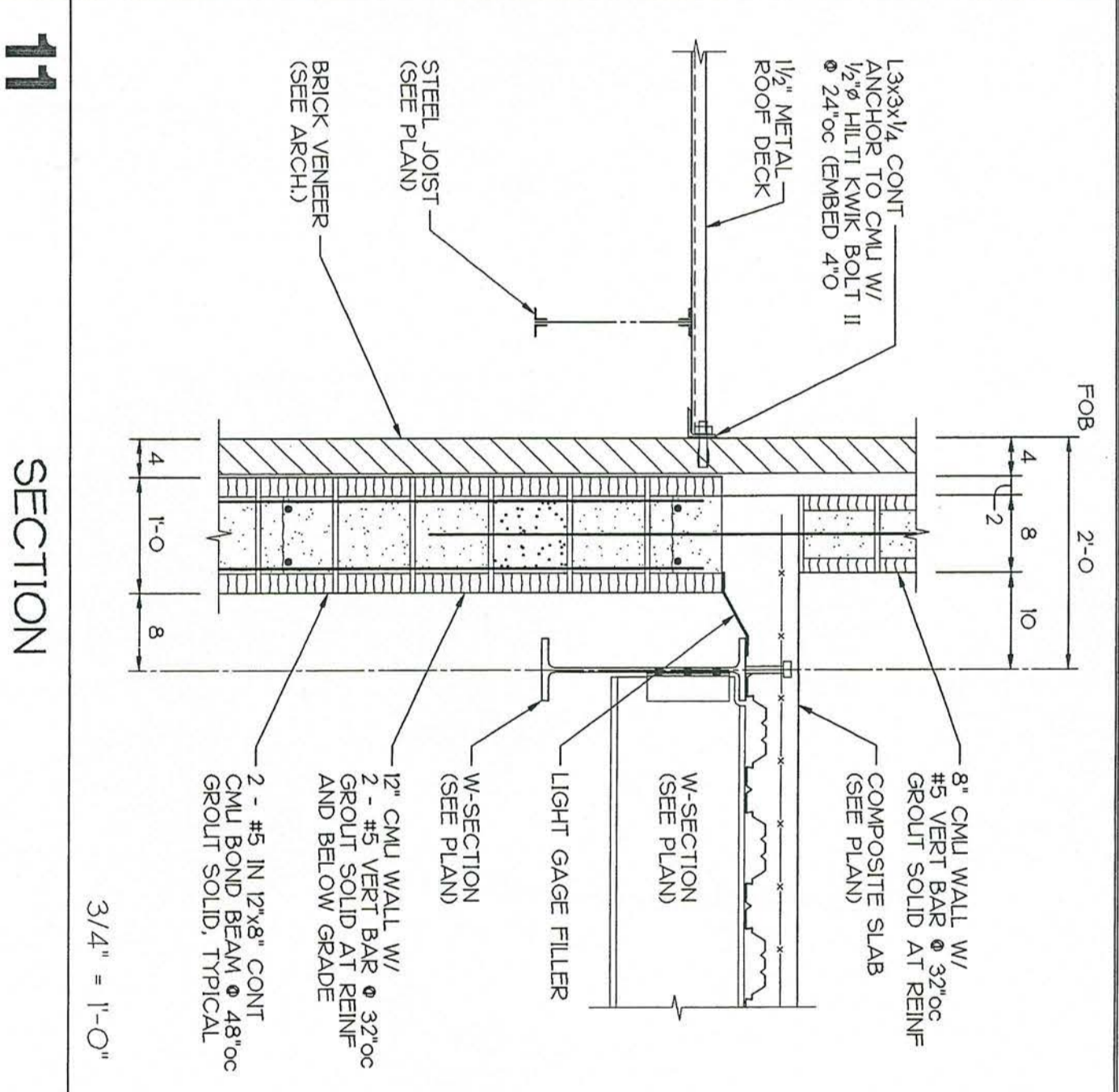
8 SECTION AT EXISTING



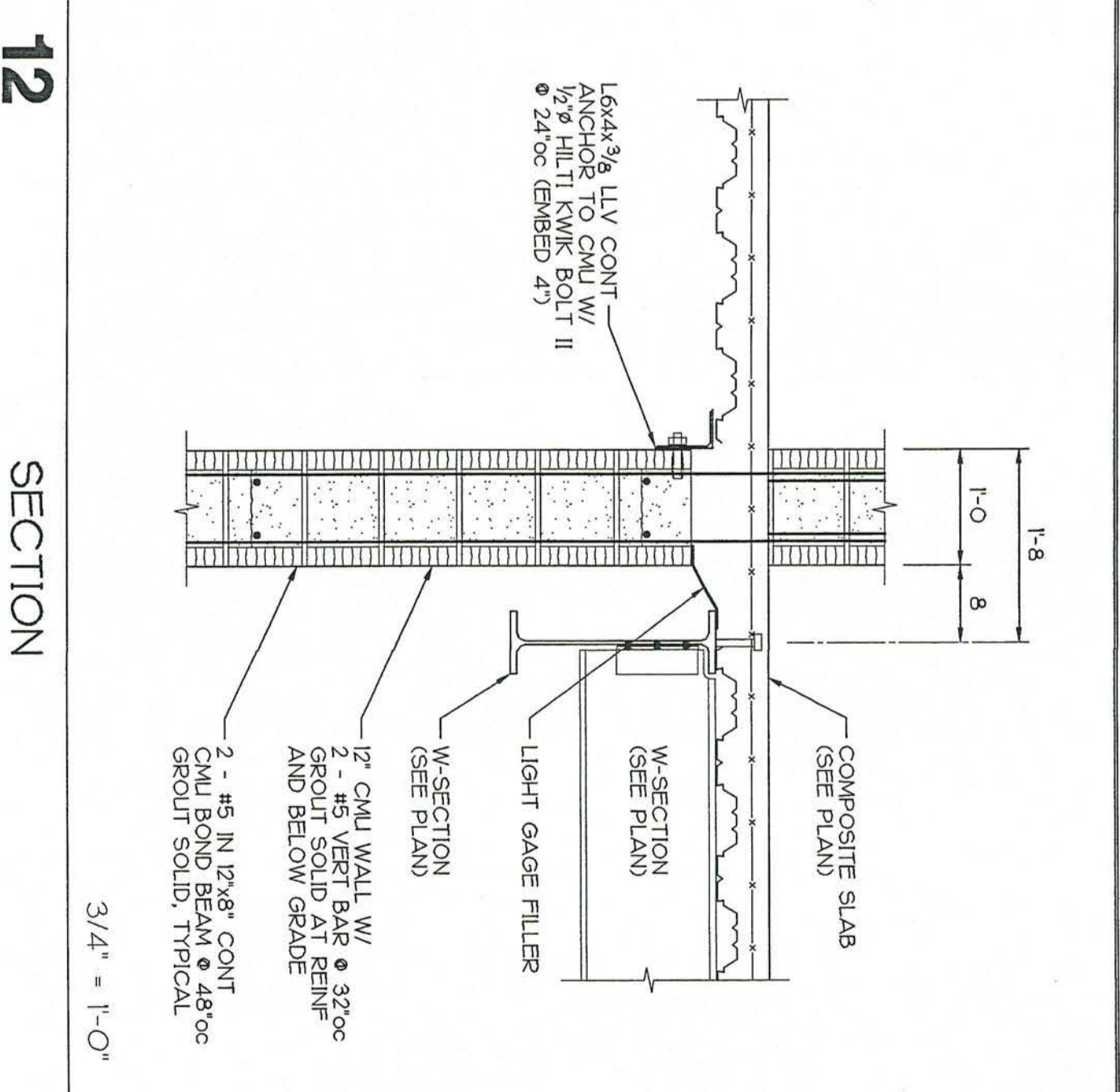
9 SECTION AT EXISTING



10 SECTION



11 SECTION



12 SECTION

Project No.  
**999**

Date  
08-01-02  
Drawn  
CRG  
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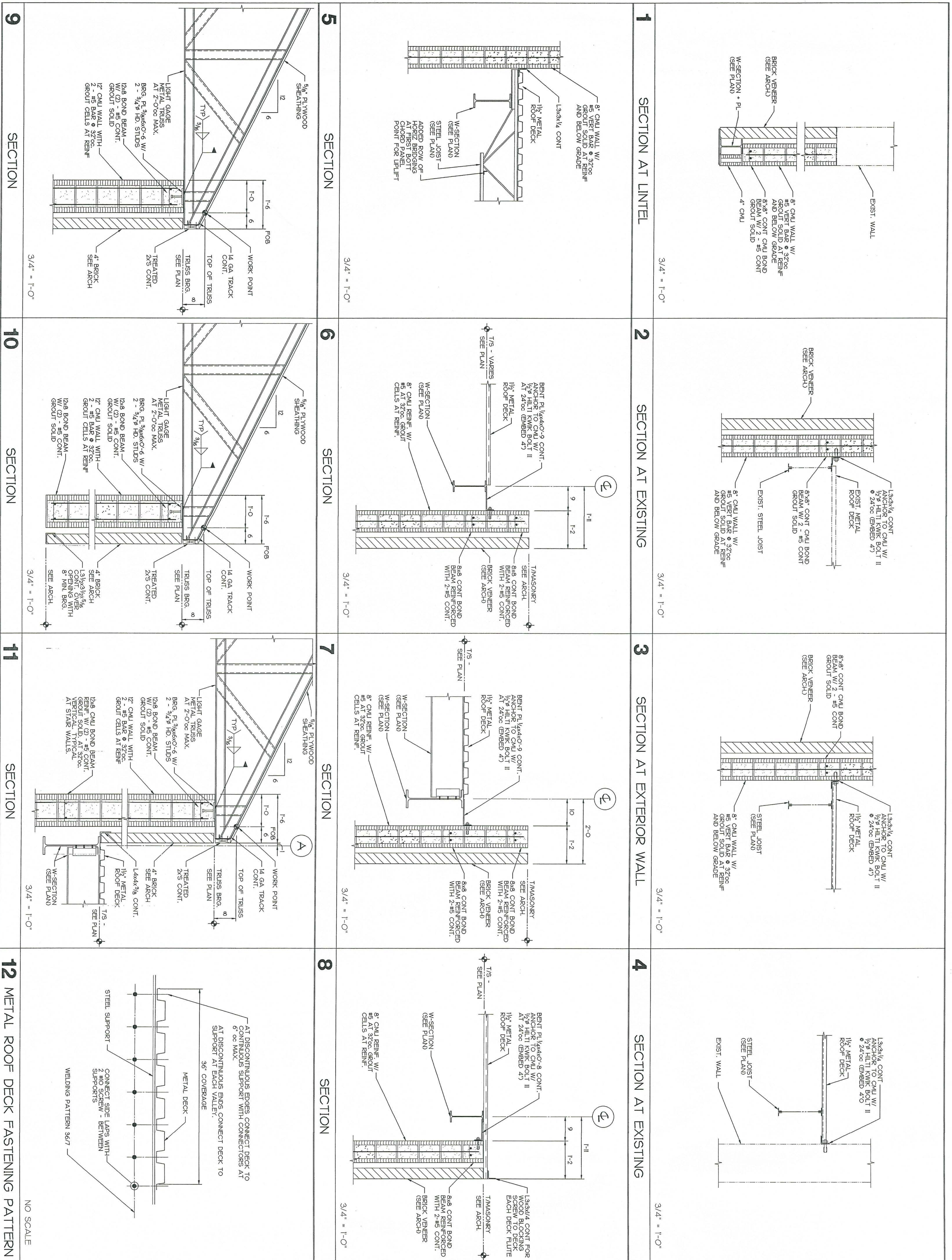


RENOVATIONS AND ADDITIONS FOR THE  
**NEW PUBLIC SAFETY BUILDING**  
Pine Knoll Shores, North Carolina

SECTIONS AND DETAILS

sheet  
8 of 9  
**3.73**





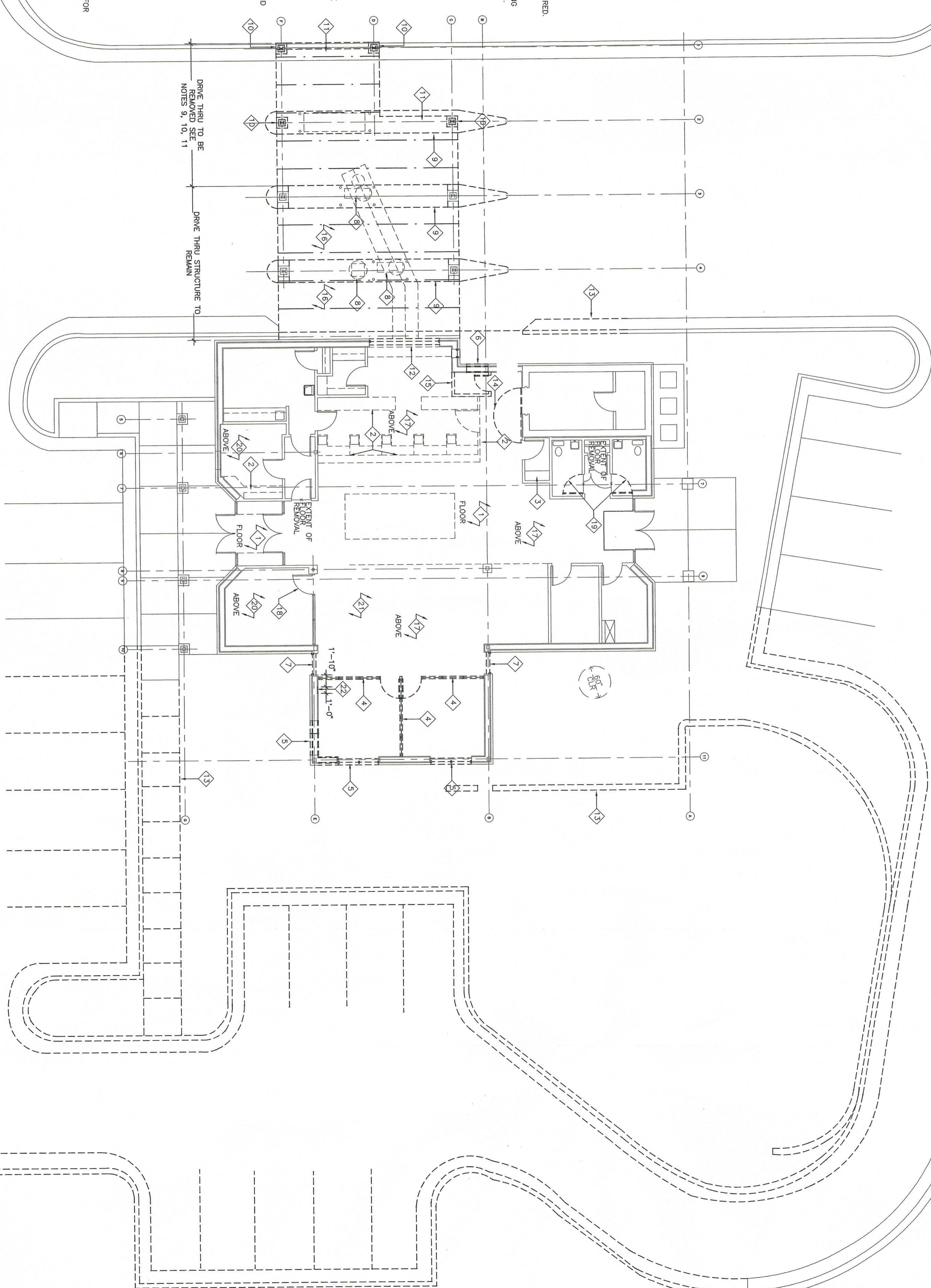
sheet 9 of 9 374	RENOVATIONS AND ADDITIONS FOR THE <b>NEW PUBLIC SAFETY BUILDING</b> Pine Knoll Shores, North Carolina		<b>Stewart-Cooper-Newell-Architects</b> Planning Architecture Interiors 719 east second ave. gastonia, nc 28054 phone: 704.865.6311 fax: 704.865.0048 www.scn-architects.com	108 inview road #109 w. columbia, sc 29169 phone: 803.926.7722 fax: 803.926.7771	<b>COGGIN CARRARA, INC.</b> © 2002 BY: COGGIN CARRARA, INC. 3717 LATROBE DRIVE SUITE 700 CHARLOTTE, NC 28211 704.447.1955 704.447.1037 (FAX) WWW.COGGINCARRARA.COM JOB NUMBER: 1282	Date 08-01-02	Project No. 999
	SECTIONS AND DETAILS					Drawn CRG	Checked ADC



# DEMOLITION NOTES

## GENERAL NOTES:

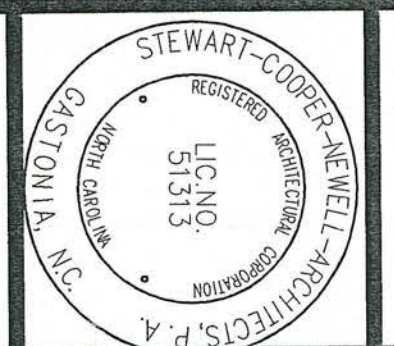
- A) BY NATURE OF THE SCOPE OF THIS DEMOLITION WORK, THESE NOTES ARE NOT MEANT TO BE EXHAUSTIVE, BUT BROAD SCOPING. ALL DEMOLITION NECESSARY TO COMPLETE THE WORK, AS NOTED HEREIN, DETAIL ESTIMATE, PERMIT REQUIREMENTS, WORK IS REQUIRED UNDER THIS CONTRACT. REVIEW THE PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR POSSIBLE FURTHER WORK. COORDINATE ALL DEMOLITION REQUIRED WITH THESE TRADES. EACH CONTRACTOR IS REQUIRED TO VISIT THE SITE TO DETERMINE EXTENT OF DEMOLITION BEFORE BIDDING.
- B) COORDINATE ALL WALL/COLUMN DEMOLITION WITH STRUCTURAL DRAWINGS TO MAINTAIN SUPPORT FOR STRUCTURAL ELEMENTS AS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF ALL DEMOLITION ALL TEMPORARY SUPPORTS/SHOORING.
- C) COORDINATE REMOVAL OF PLUMBING, MECHANICAL AND ELECTRICAL ELEMENTS WITH PERMITTING PRIOR TO REMOVAL OF WALLS, FLOORS, CEILING, ETC.
- D) EACH CONTRACTOR, GENERAL CONSTRUCTION, SHALL BE RESPONSIBLE FOR THE COMPLETE DEMOLITION OF ALL ITEMS RELATED TO THEIR PORTION OF WORK. FOR EXAMPLE ANY ABANDONED DUCTWORK OR HEATING/AIR CONDITIONING EQUIPMENT AND ASSOCIATED CONTROL WIRING SHOULD BE REMOVED. THE ELECTRICAL CONTRACTOR AND GAS PIPING BY THE PLUMBING CONTRACTOR FOR ALL EQUIPMENT AND SERVICES. THIS IS TYPICAL FOR ALL EQUIPMENT AND SERVICES.
1. REMOVE EXISTING FLOOR TILE CLEAN AREA. PATCH AS REQUIRED. MAKE READY FOR NEW.
2. REMOVE ENTIRE TELLER LINE CASEWORK. COORDINATE ELECTRICAL CAPPING WITH ELECTRICAL CONTRACTOR PATCH FLOOR AND ADJACENT WALLS AS REQUIRED. MAKE READY FOR NEW. STORE LOOK BOXES (S) AT OTHER DIRECTIONS.
3. REMOVE SHELF AND WALL SURROUND. PATCH WALLS AS REQUIRED. EXISTING SHELF TO BE RAISED IN SAME ROOM TO ACCOMMODATE RELOADED LOOK BOX.
4. REMOVE EXISTING WINDOW WALL & DOORS PATCH FLOOR AND WALLS AS REQUIRED FOR NEW.
5. REMOVE STOREFRONT GLASS AND FRAME. CLEAN AND PATCH AREA. MAKE READY FOR NEW.
6. IF ALTERNATE 1 IS TAKEN REMOVE PORTION OF BRICK & BLOCK WALL. PROVIDE UNITS AS REQUIRED. TOOTH IN CMU & BRICK FOR CLEAN FINISH. ENSURE THAT ROOF DRAIN IN WALL IS PROTECTED AND RE-WORKED AS REQUIRED.
7. REMOVE EXISTING STOREFRONT GLASS AND FRAME. CLEAN AREA AND MAKE READY FOR NEW.
8. REMOVE EXISTING BANK EQUIPMENT AND BOLLARDS. CLEAN AREA AND MAKE READY FOR NEW.
9. REMOVE PORTION OF CONCRETE CURB AS TO NOT DISTURB BRICK COLUMNS THAT REMAIN. CLEAN AREA AND MAKE READY FOR NEW.
10. REMOVE BRICK SURROUND. STEEL COLUMN. STORE EXISTING STRUCTURE AND BRICK AS REQUIRED.
11. REMOVE BAR JOISTS, BEAMS AND ROOF. BRACE REMAINING AS REQUIRED.
12. REMOVE DRIVE THRU-WINDOW. COORDINATE ELECTRICAL CAPPING. CLEAN AREA AND MAKE READY FOR NEW.
13. REMOVE CONCRETE CURB AS REQUIRED. SEE CIVIL DRAWING FOR FURTHER DETAILS.
14. REMOVE EXISTING VAULT DOOR AND FRAME. CLEAN AND PATCH WALL AS REQUIRED MAKE READY FOR NEW.
15. REMOVE WALL AND DOOR. PATCH FLOOR AND WALL AS REQUIRED. CLEAN AND MAKE READY FOR NEW.
16. REMOVE LAY-IN CEILING, GRID AND LIGHTS. CLEAN AREA AND MAKE READY FOR NEW. COORDINATE ELECTRICAL CAPPING WITH ELECTRICAL CONTRACTOR.
17. REMOVE LAY-IN CEILING, GRID, LIGHTS AND MECHANICAL GRILLES. CLEAN AND MAKE READY FOR NEW.
18. REMOVE HM DOOR. CLEAN AREA MAKE READY FOR NEW.
19. REMOVE EXISTING POOR. LEAVE FRAME INTACT. CLEAN AND MAKE READY FOR NEW SWING OF DOOR.
20. REMOVE CEILING TILE ONLY. CLEAN GRID AND MAKE READY FOR NEW.
21. REMOVE ALL CARPET IN ENTIRE BUILDING EXCEPT KITCHEN 120. MAKE READY FOR NEW. CORRIDOR 121, AND CORRIDOR 122. CLEAN AREA AND MAKE READY FOR NEW.
22. REMOVE PORTION OF GIP. WALL TO ACCOMMODATE FOR FIRE EXTINGUISHER CABINET.



1 DEMOLITION FLOOR PLAN  
 SCALE 1/8" = 1'-0"  
 4.00

Project No.  
**999**

Date  
 8-04-02  
 Drawn  
 APS  
 Checked  
 JRS  
 Revisions

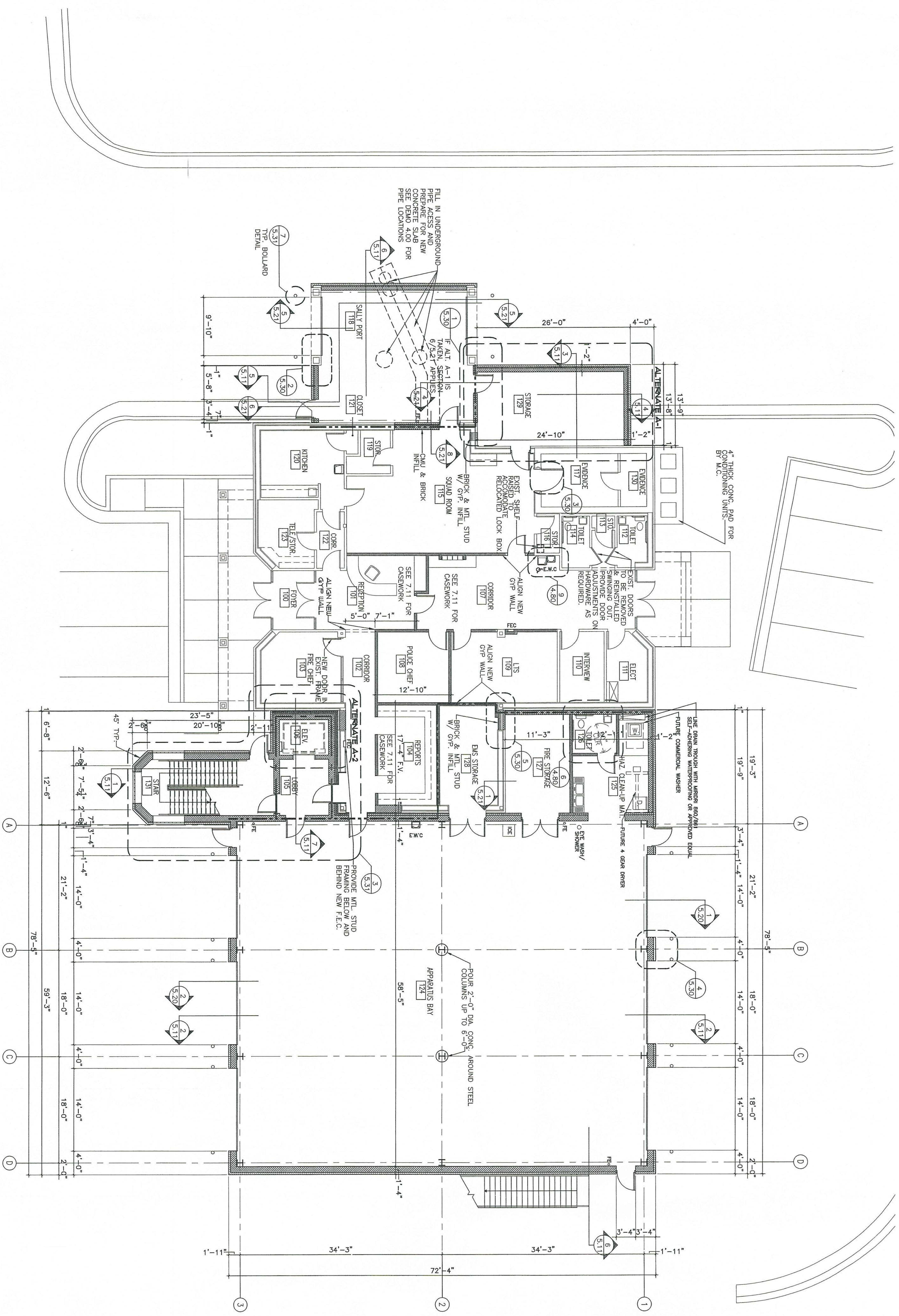


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 www.scn-architects.com  
 2016 sumter st.  
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 fax: 803.765.2011



RENOVATIONS AND ADDITIONS FOR THE  
**NEW PUBLIC SAFETY BUILDING**  
 Pine Knoll Shores, North Carolina  
**DEMOLITION FLOOR PLAN**  
 sheet 4.00



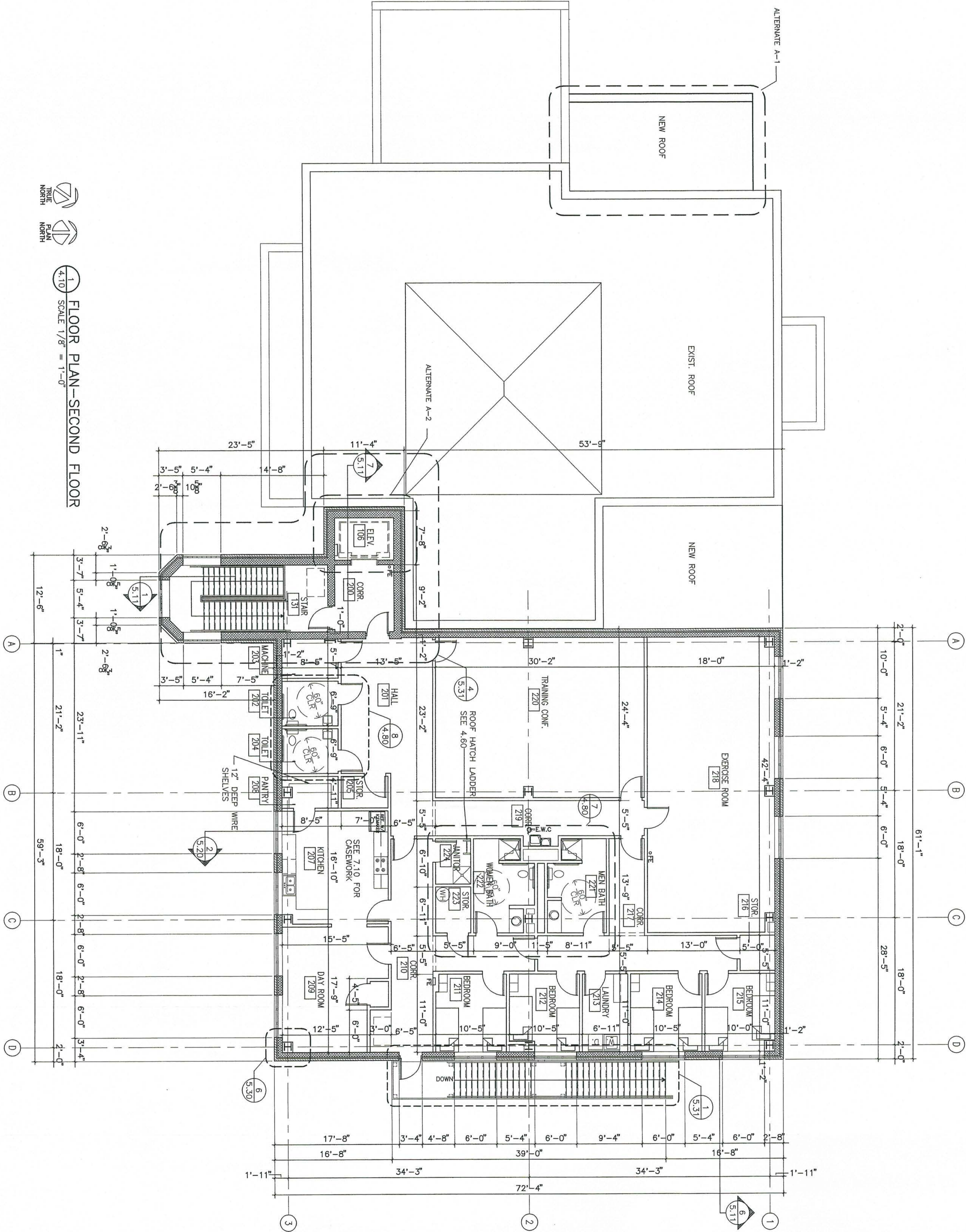


**1 FLOOR PLAN—FIRST FLOOR**  
 SCALE 1/8" = 1'-0"  
 SEE CIVIL DRAWINGS FOR FLAGPOLE LOCATION  
 SEE DETAIL 5/5.31 FOR FLAGPOLE DETAIL

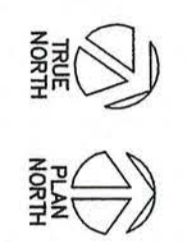
**IMPORTANT NOTE**  
 ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES. CONTRACTORS SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHER CONTRACTORS AND TRADES. THE REQUIREMENTS OF THE ALL ITEMS OF THE CONTRACT DOCUMENTS ARE EQUALLY BINDING ON ALL CONTRACTORS AND TRADES. EACH CONTRACTOR IS NOT TO ASSUME RESPONSIBILITY FOR THE WORK OF OTHER CONTRACTORS AND TRADES. EACH CONTRACTOR IS TO ASSURE THAT ALL WORK IS PROPERLY COORDINATED AND INSTALLED WITH THE WORK OF OTHER CONTRACTORS AND TRADES.

	<p><b>Stewart-Cooper-Newell-Architects</b>                  Planning Architecture Interiors                  719 east second ave.                  gastonia, nc 28054                  phone: 704.865.6311                  fax: 704.865.0046</p> <p>www.scn-architects.com</p>		<p>Project No. <b>999</b>                  Date 8-01-02                  Drawn APS                  Checked JRS                  Revisions</p>
<p>RENOVATIONS AND ADDITIONS FOR THE                  NEW PUBLIC SAFETY BUILDING                  Pine Knoll Shores, North Carolina</p>		<p>2016 sumter st.                  suite 202                  columbia, sc 29201                  phone: 803.765.9011                  fax: 803.765.2011</p>	
<p>sheet <b>4.10</b></p>		<p>DATE: 8-01-02                  DRAWN: APS                  CHECKED: JRS                  REVISIONS:</p>	





1 FLOOR PLAN—SECOND FLOOR  
 SCALE 1/8" = 1'-0"

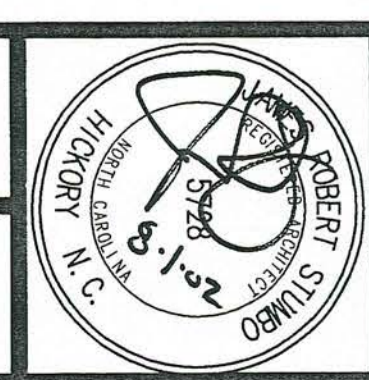


TRUE NORTH  
 PLAN NORTH

RENOVATIONS AND ADDITIONS FOR THE  
**NEW PUBLIC SAFETY BUILDING**  
 Pine Knoll Shores, North Carolina

SECOND FLOOR PLAN

sheet 4.20

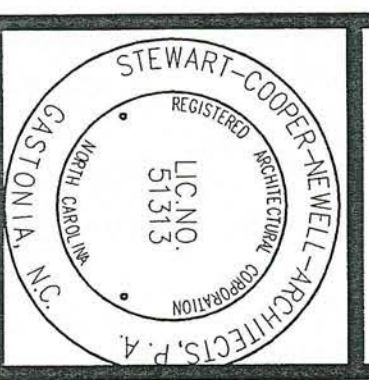


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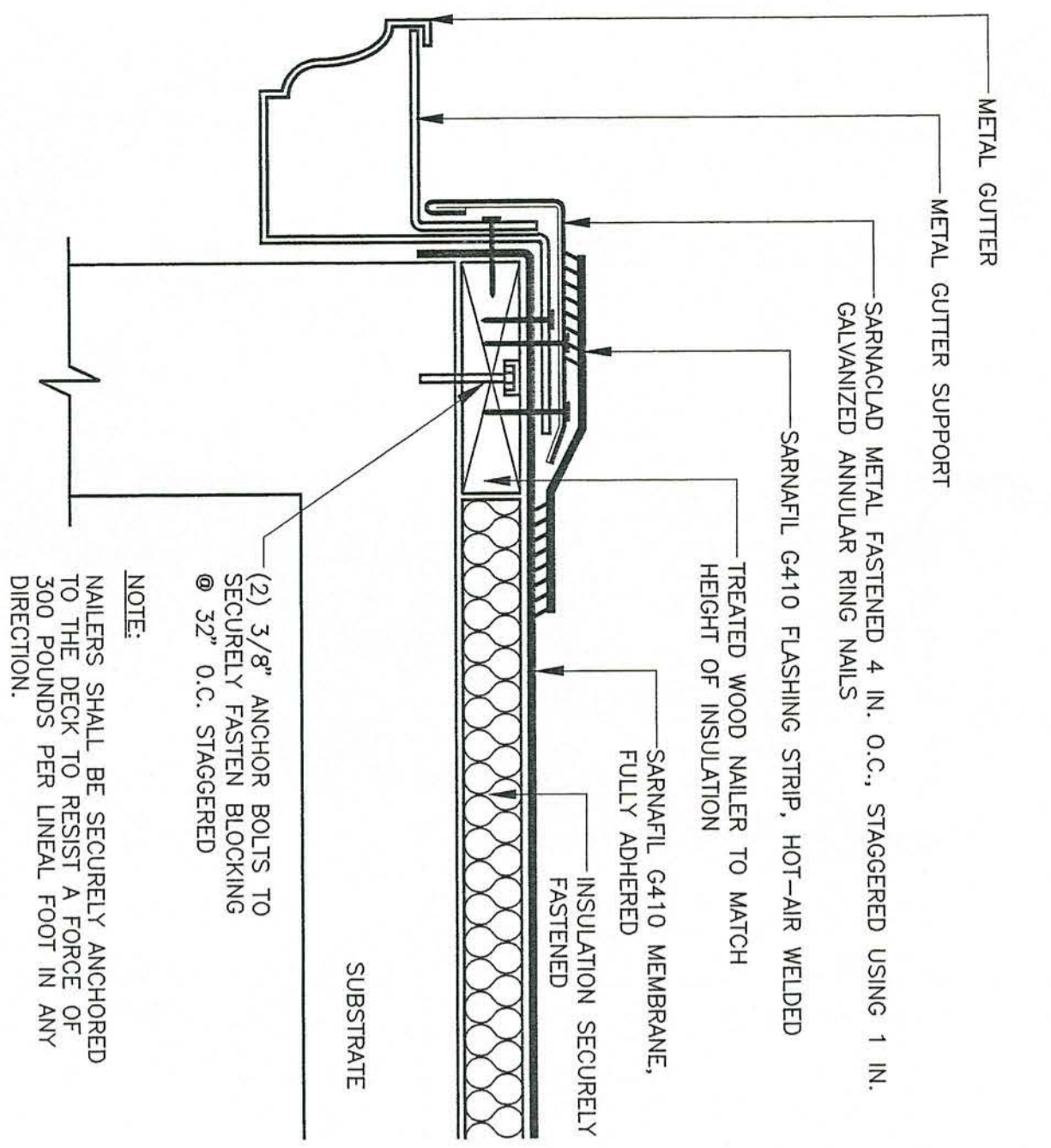
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 suite 202  
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 fax: 803.765.2011

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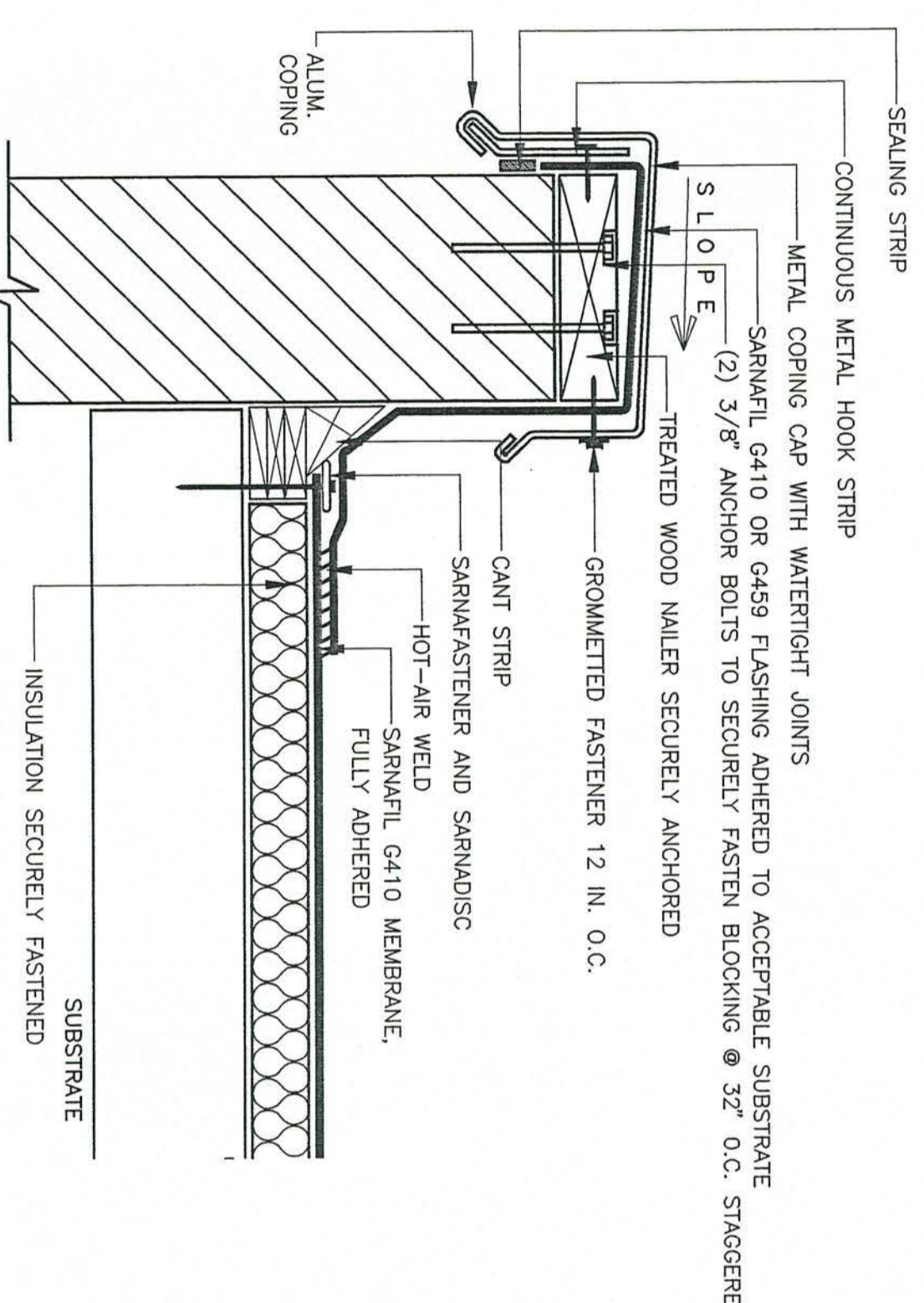


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Checked	JPS
Revisions	

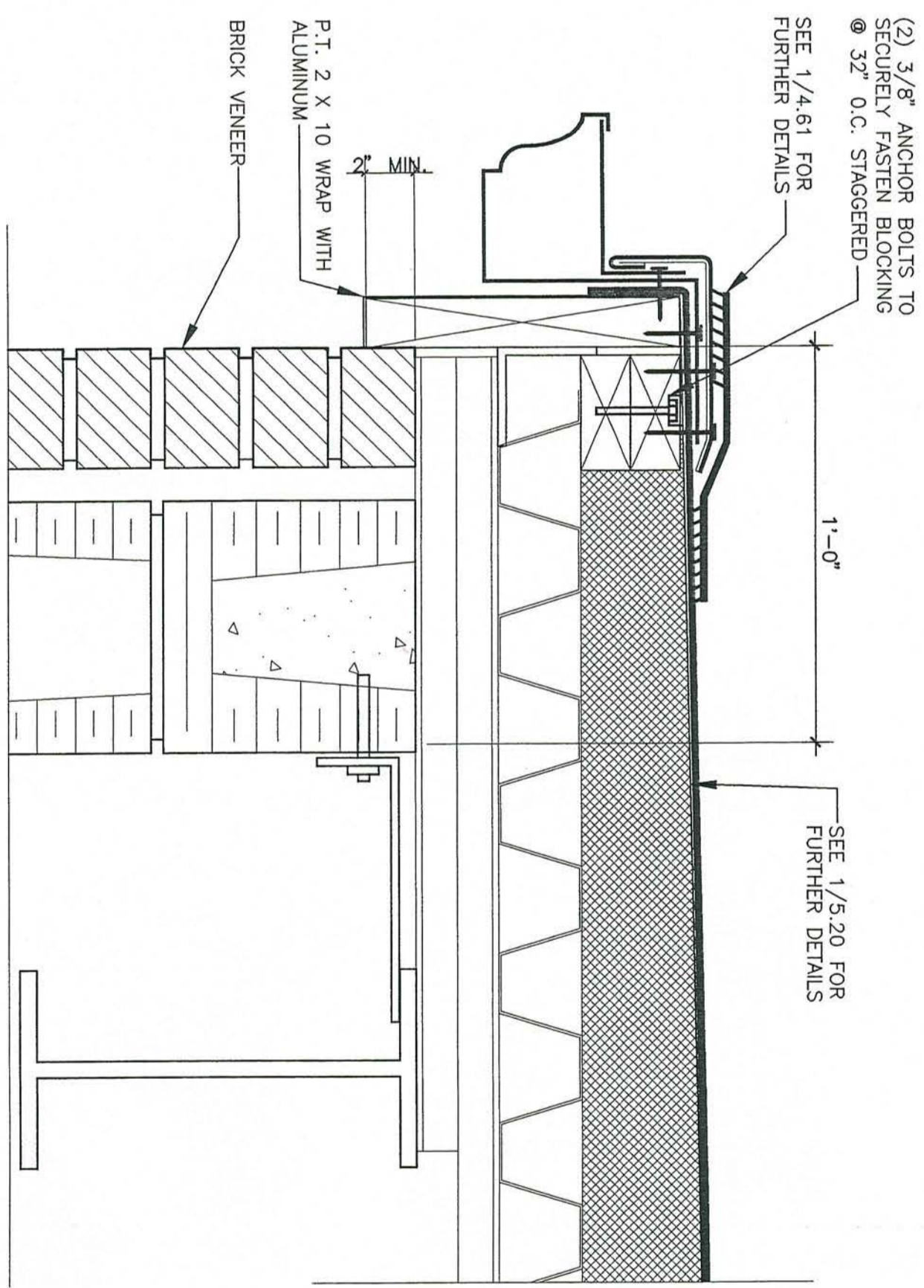




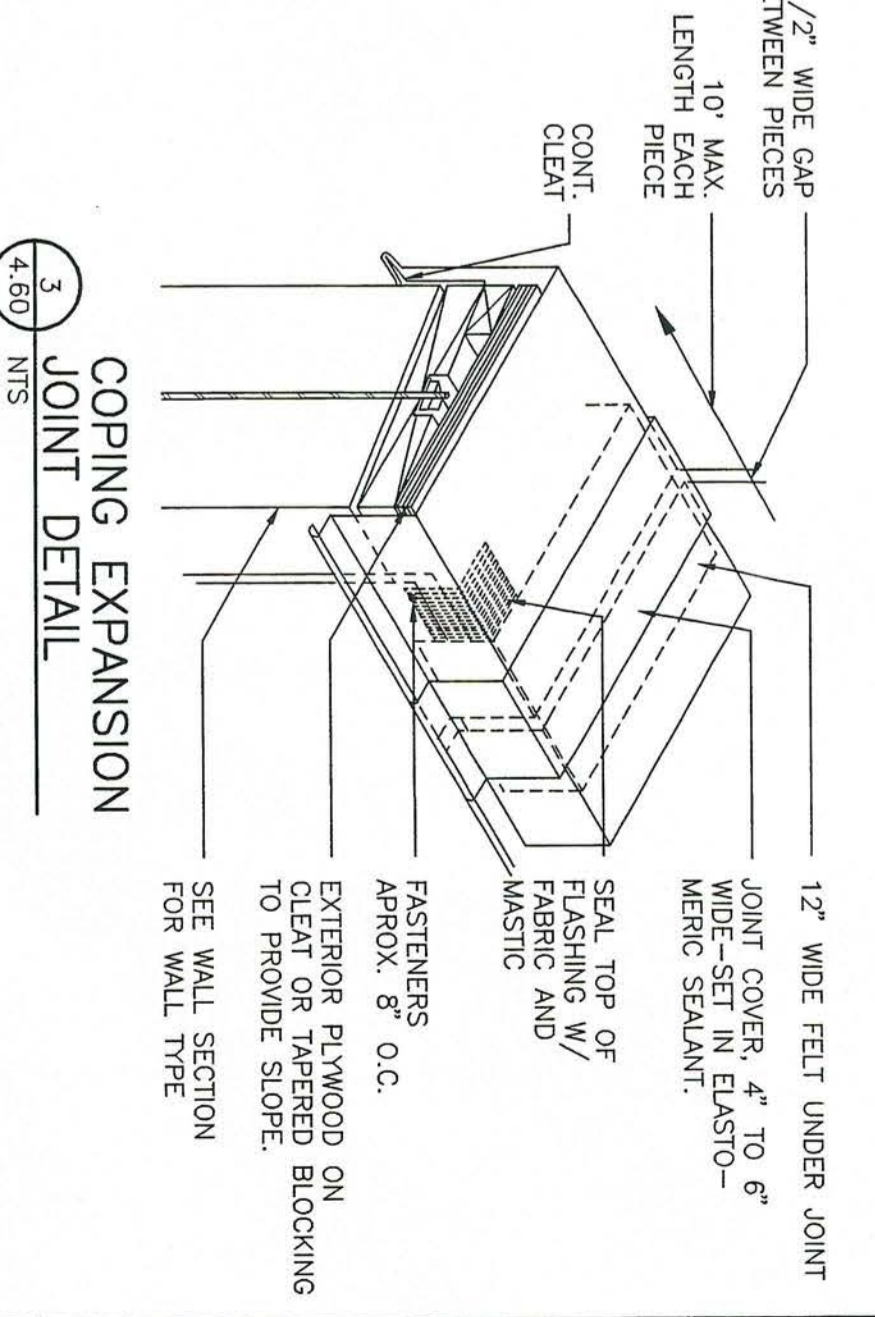
4.80 NTS  
GUTTER EDGE  
SARNAFIL DETAIL  
OR APPROVED EQUAL



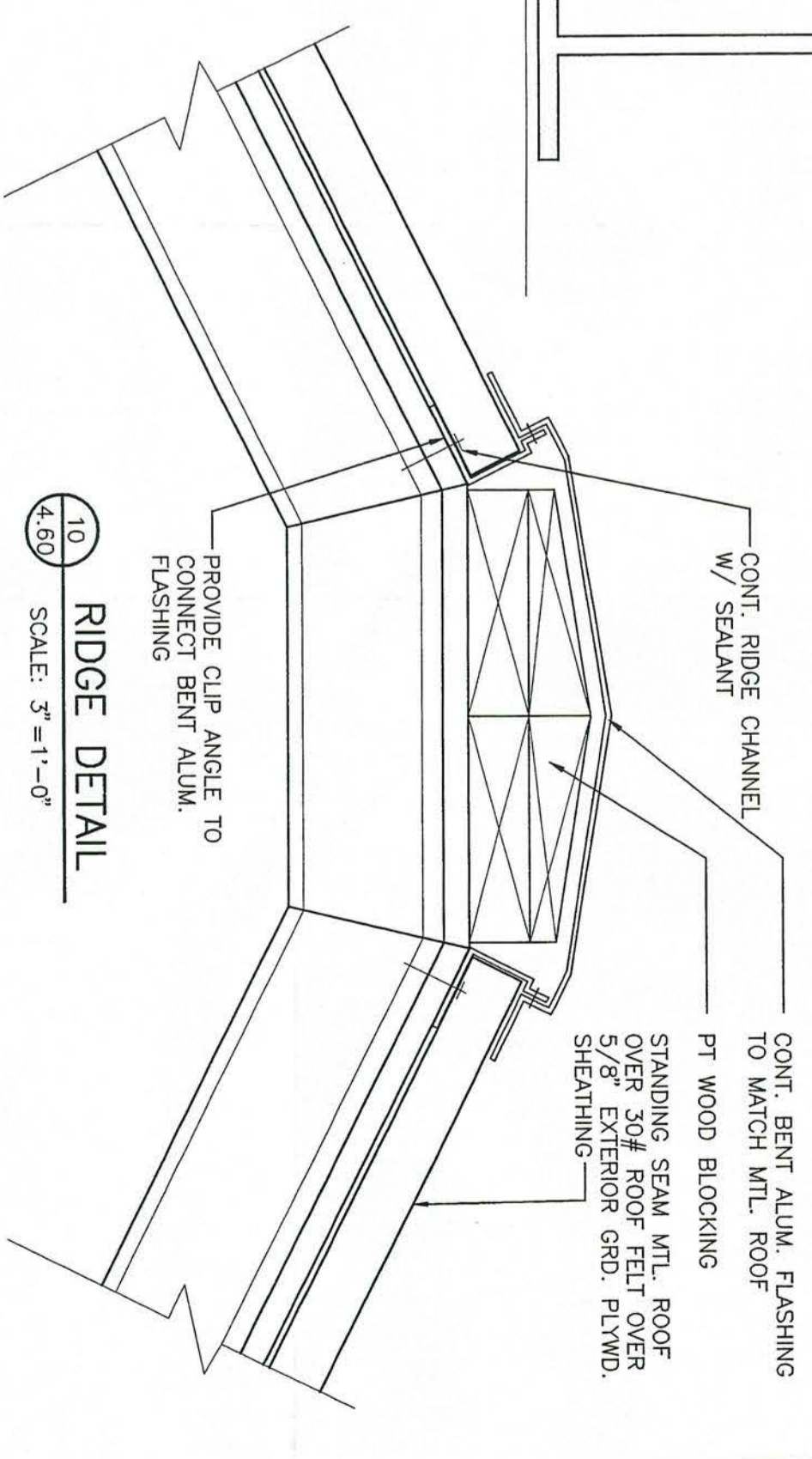
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PARAPET WALL WITH METAL COPING CAP  
SARNAFIL DETAIL  
OR APPROVED EQUAL



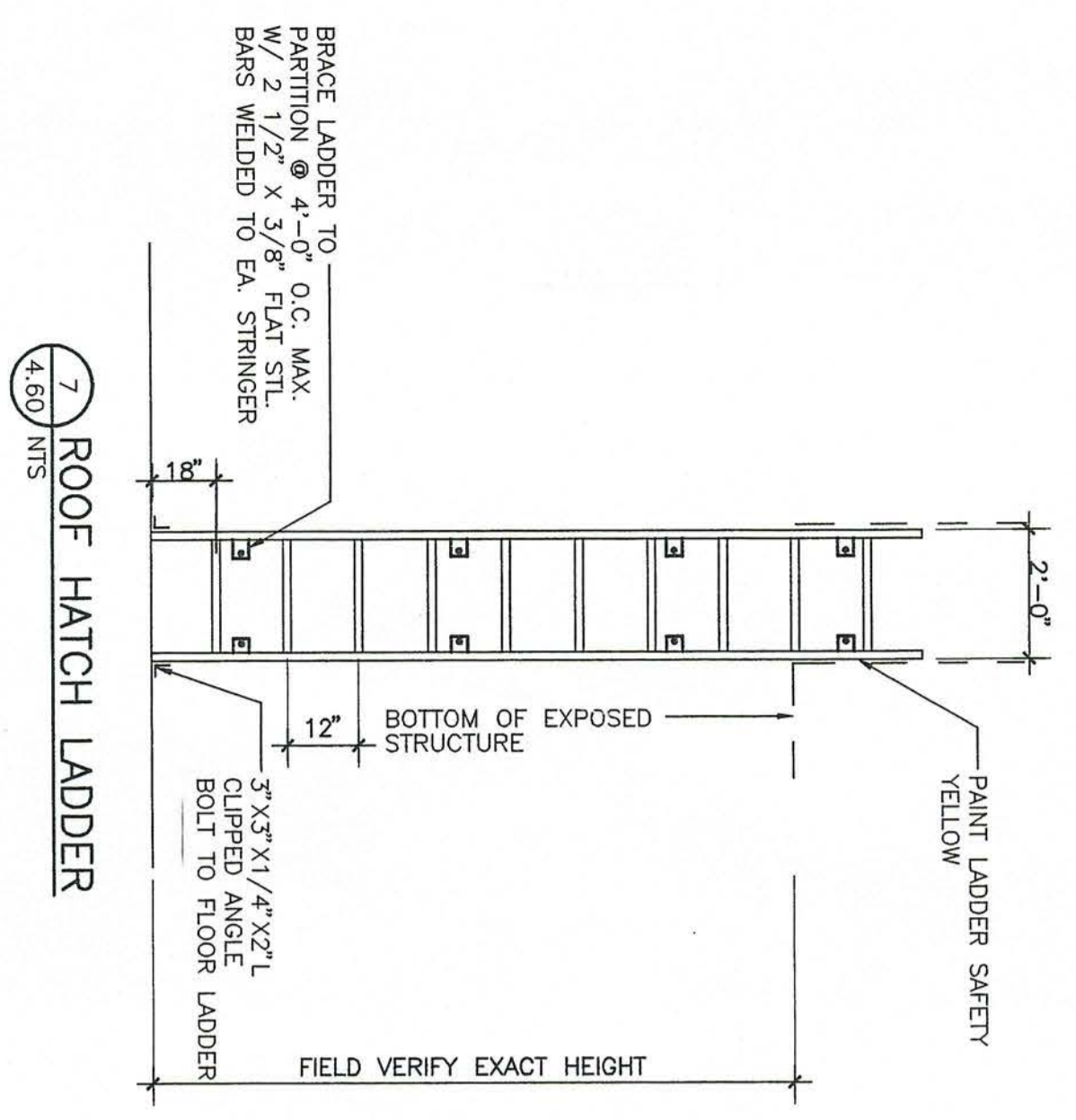
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RAKE DETAIL @ BRICK VENEER &  
LOW SLOPE SARNAFIL ROOF



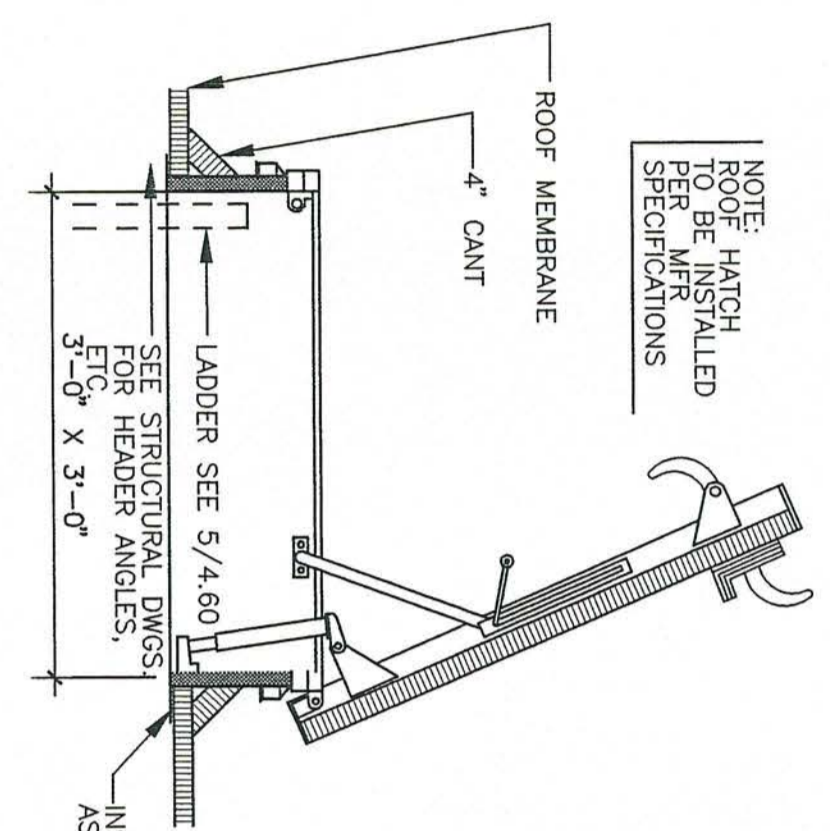
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COPING EXPANSION  
JOINT DETAIL



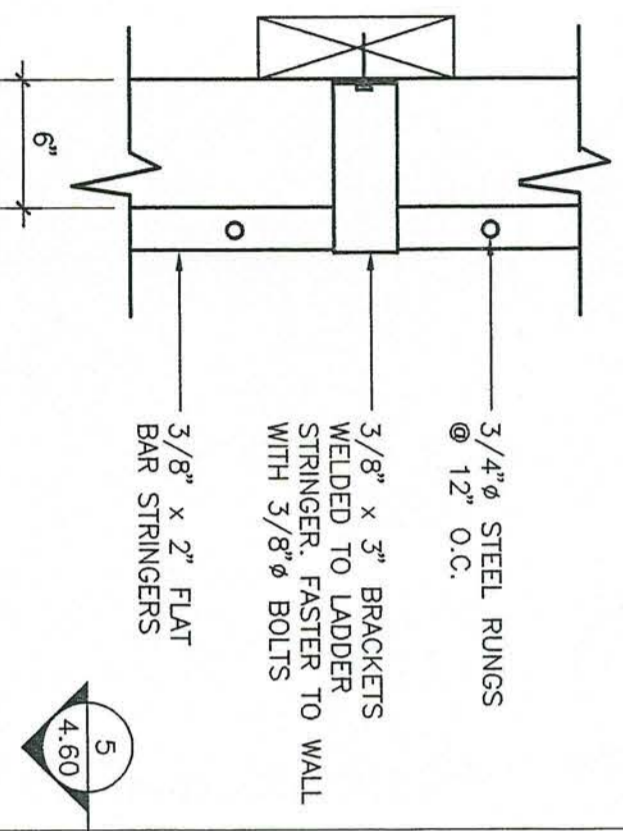
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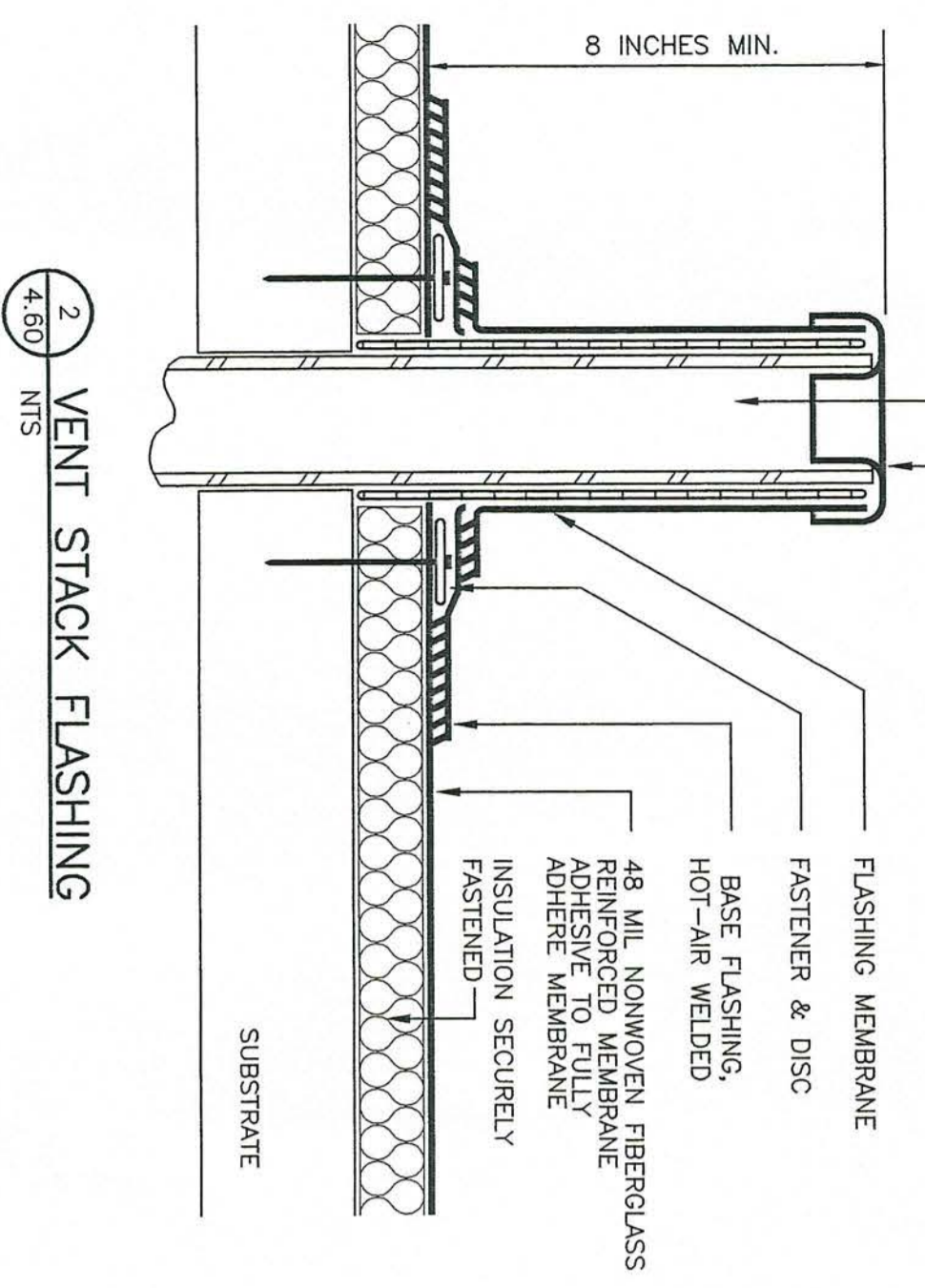
4.80 NTS  
ROOF HATCH LADDER



4.80 NTS  
ROOF HATCH

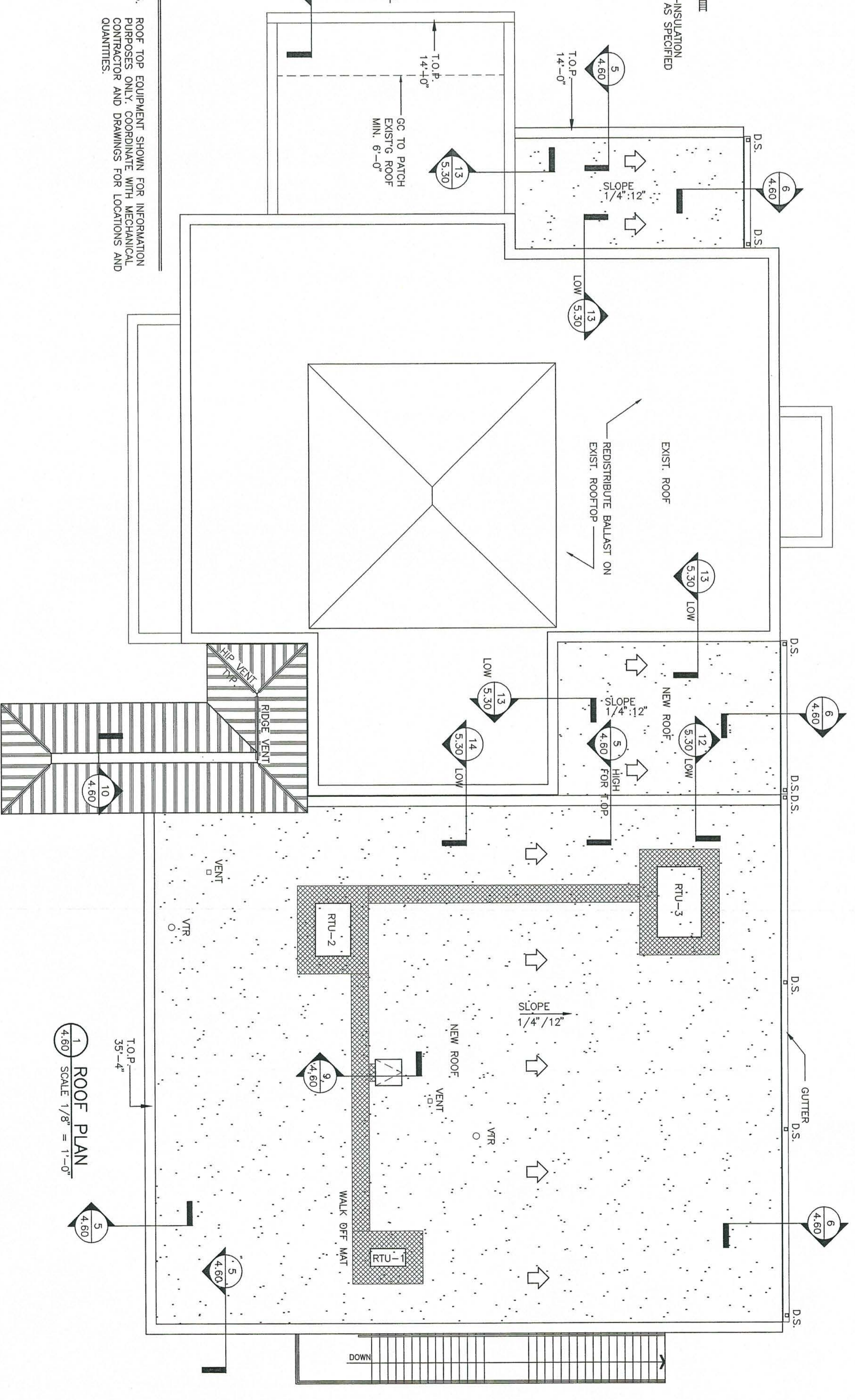


4.80 NTS  
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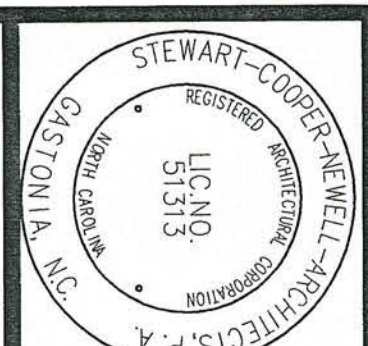
4.60 NTS  
VENT STACK FLASHING

- ROOF NOTES**
1. PROVIDE CRACKERS AT ALL ROOF TOP MECH. UNITS AND OTHER ROOF PENETRATIONS
  2. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW OTHER DRAWINGS FOR ROOF PENETRATIONS NOT SHOWN.
  3. PROVIDE WALK BOARD AS SHOWN TO BE SARNAFIBRO PROTECTION MAT
  4. PROVIDE ALL FLASHING MATERIALS AND METHODS AS APPROVED BY THE MANUFACTURER FOR A FULL WATERPROOF SYSTEM
  5. ROOF TOP EQUIPMENT SHOWN FOR INFORMATION PURPOSES ONLY. COORDINATE WITH MECHANICAL CONTRACTOR AND DRAWINGS FOR LOCATIONS AND QUANTITIES.

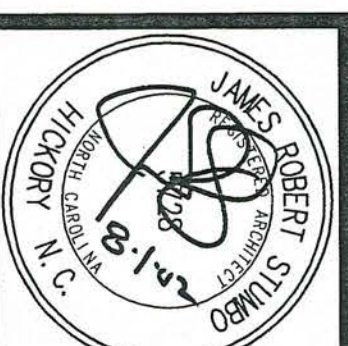


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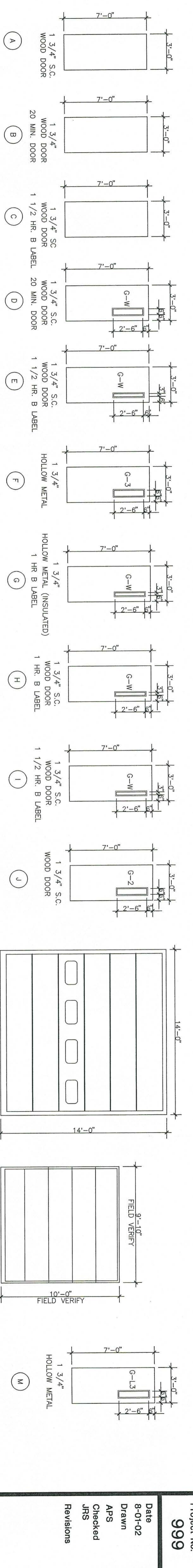


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RENOVATIONS AND ADDITIONS FOR THE  
**NEW PUBLIC SAFETY BUILDING**  
 Pine Knoll Shores, North Carolina  
 ROOF PLAN  
 sheet 4.60





### HARDWARE SCHEDULE

**MANUFACTURERS:**  
 LOCK-LATCH - SARGENT  
 HINGES - HAGER, MANNING, STANLEY  
 CLOSERS - SARGENT  
 EXIT DEVICES - YON, DUPRE  
 PUSH PLATES - ROCKWOOD  
 FLUSH-BOLTS - QUINN-JOHNSON, ROCKWOOD, WES  
 STOPS - QUINN-JOHNSON, ROCKWOOD, WES  
 SILENCERS - QUINN-JOHNSON, WES  
 LOCK GUARDS - QUINN-JOHNSON, WES  
 WEATHERSTRIPPING - ZERO, NATIONAL GUARD  
 FISH PLATES - ROCKWOOD

**HARDWARE NOTES:**  
 1) THE FOLLOWING LIST OF HARDWARE ITEMS AND THEIR MANUFACTURERS ARE REPRESENTED BY SPECIFIC HARDWARE ITEMS NOT SHOWN HERE WILL BE SPECIFICALLY CALLED OUT BY MANUFACTURER AND CATALOG NUMBER IN THE ACTUAL HARDWARE GROUP.  
 2) HARDWARE FINISHES SHALL BE AS FOLLOWS (UNLESS NOTED OTHERWISE):  
 EXTENSION - US320  
 3) ALL KEYS TO HAVE CONSTRUCTION KEYS.  
 4) CLOSERS AND CLOSURE/HOLDERS SHALL BE MOUNTED ON THE ROOM SIDE OF DOORS TO THE GREATEST EXTENT POSSIBLE. PROVIDE IN CORRIDORS. PROVIDE LCN 4010 SERIES IN REGULAR MOUNT OR PARALLEL AS REQUIRED.  
 5) ALL EXTERIOR HOLLOW METAL DOORS NOT COVERED BY AN OVERLAP SHALL HAVE "PENCIL" NO. 3474 AND "PENCIL" NO. 668 INTERLOCKING WATER SHIELD ATTACHED TO HEAD OF DOOR AND FRAME.  
 6) PROVIDE WES 1825320 LOCK GUARDS ON ALL OUTSWINGING EXTERIOR HOLLOW METAL DOORS.  
 7) PROVIDE FLOOR OR WALL STOPS FOR ALL DOORS, WHERE WALL OR FLOOR STOPS ARE NOT APPLICABLE. PROVIDE OVERHEAD DOOR STOPS. PROVIDE SARGENT 580 SERIES X35320 FOR THE PERFORATE DOOR.  
 8) PROVIDE FLOOR STOPS FOR ALL OUTSWINGING DOOR. STOPS SHALL BE QUINN-JOHNSON FIS18.  
 9) PROVIDE WEATHER-STRIPPING AT ALL EXTERIOR DOORS WHETHER INDICATED OR NOT.  
 10) FINISH MANUFACTURERS CUT SHEETS FOR ALL HARDWARE.  
 11) ALL HARDWARE SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.  
 12) REPAIR HARDWARE TO MATCH LABOR DOOR.  
 13) REPAIR EXISTING CLOSERS W/ NEW MATCH KEYS.  
 14) REPAIR EXISTING CLOSERS W/ NEW MATCH KEYS.

### HOLLOW METAL FRAME INSTALLATION SCHEDULE

**HOLLOW METAL FRAME NOTES:**  
 1) PROVIDE LABEL, HOLLOW METAL FRAMES WHERE SCHEDULED, WHEN INSTALLED IN RATED WALLS OR REQUIRED BY CODE.  
 2) ALL EXTERIOR HOLLOW METAL FRAMES SHALL BE 14 GAUGE.  
 3) ALL INTERIOR HOLLOW METAL FRAMES SHALL BE 16 GAUGE.  
 4) SPECIAL HOLLOW METAL FRAMES SHALL BE AS DETAIL OR AS NOTED.  
 5) PROVIDE FRAMES WHERE SCHEDULED WITH HARDWARE SHALL BE PROVIDED BY THE HARDWARE SUPPLIER.  
 6) HOLLOW METAL FRAMES, DOORS, & HARDWARE SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

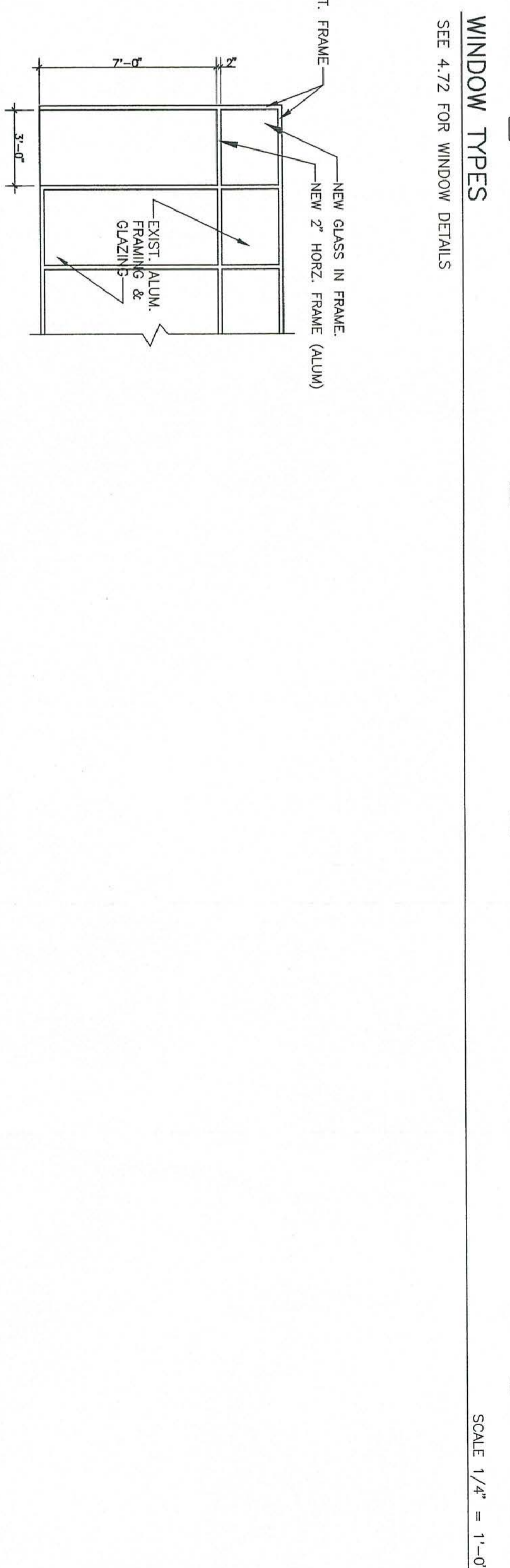
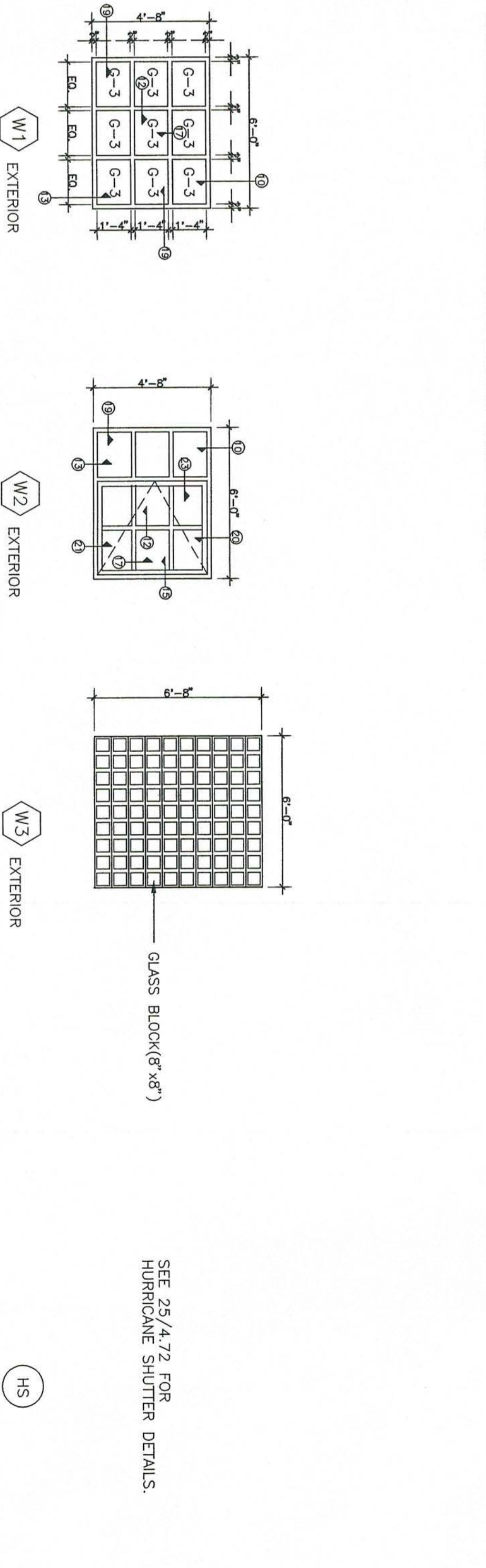
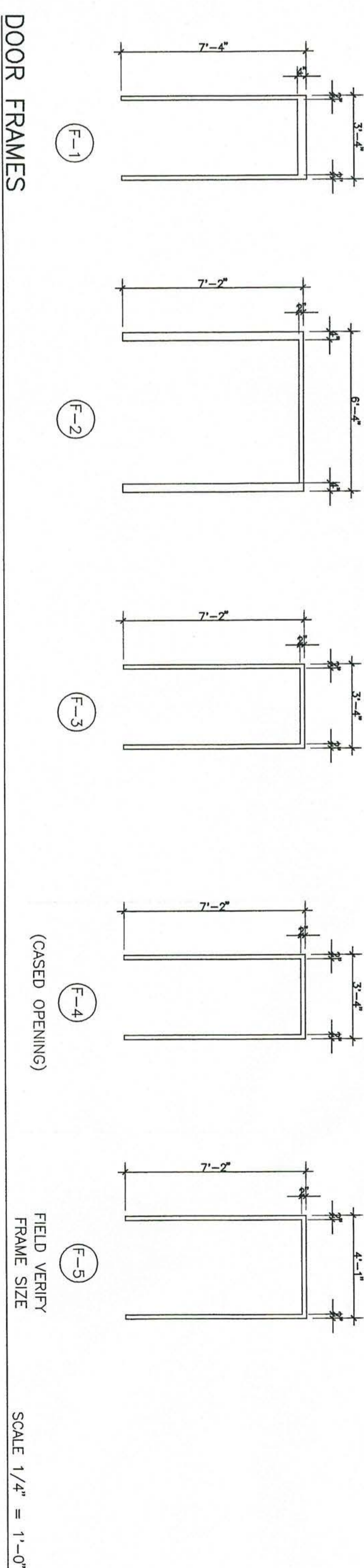
### DOOR FRAME INSTALLATION

INSTALL NUMBER	FRAME TYPE	HEAD	JAMB	SILL	REMARKS
1	F-1	4/4.71	8/4.71	*	NT-2HR
2	F-1	9/4.71	13/4.71	*	NT-2HR, (NOT RATED @ 120)
3	F-3	1/4.71	5/4.71	*	SEE FLOOR PLAN
4	F-3	3/4.71	7/4.71	*	NT-2HR
5	F-1	10/4.71	14/4.71	*	NT-1HR, OR 2HR - SEE DOORS
6	F-1	2/4.71	6/4.71	*	NT-2HR
7	F-2	2/4.71	6/4.71	*	NT-2HR
8	F-1	4/4.71	8/4.71	*	EXTERIOR
9	F-1	11/4.71	15/4.71	*	EXTERIOR
10	F-1	3/4.72	6/4.72	*	EXTERIOR
11	EXIST.	SEE 1/4.70	EXIST.	ALUM	NEW DOOR IN EXIST. ALUM FRAME W/ VERT. ROOF AND FRAME SIZE W/ EXISTING DOOR OPENING
12	F-5	10/4.71	14/4.71	*	

### GLASS SCHEDULE

**GLASS SPECIFICATIONS**

GLASS TYPE	GLASS SPECIFICATIONS	GLASS TINT/COLOR
G-1	1/4" THICK CLEAR POLISHED PLATE GLASS AS MANUFACTURED BY P.P.G. INDUSTRIES.	CLEAR
G-2	1/4" THICK CLEAR TEMPERED POLISHED PLATE GLASS AS MANUFACTURED BY P.P.G. INDUSTRIES.	CLEAR
G-3	1" THICK THERMOPLANE CLEAR POLISHED PLATE INSULATING GLASS AS MANUFACTURED BY P.P.G. INDUSTRIES.	CLEAR
G-4	1" THICK THERMOPLANE CLEAR POLISHED PLATE INSULATING GLASS BOTH PANE TEMPERED, AS MANUFACTURED BY P.P.G. INDUSTRIES.	CLEAR
G-W	1/4" WIRE GLASS	CLEAR
G-13	15/16" GUARDIAN INDUSTRIES - CLAD POLYCARBONATE # 31553 CERTIFICATION - HP WHITE TREAT - FORCED ENTRY & 44 WARRIOR.	CLEAR



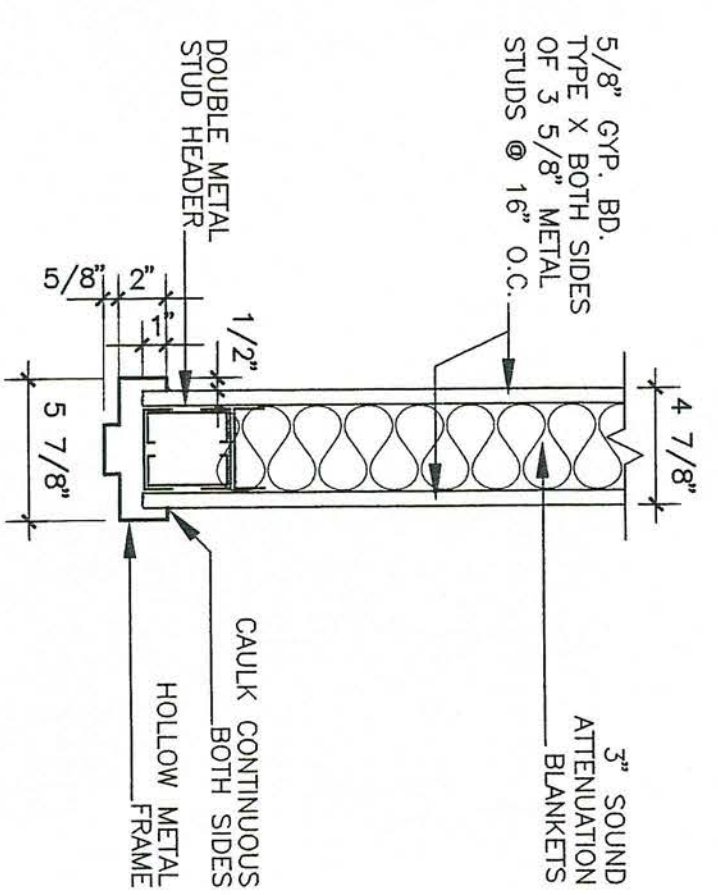
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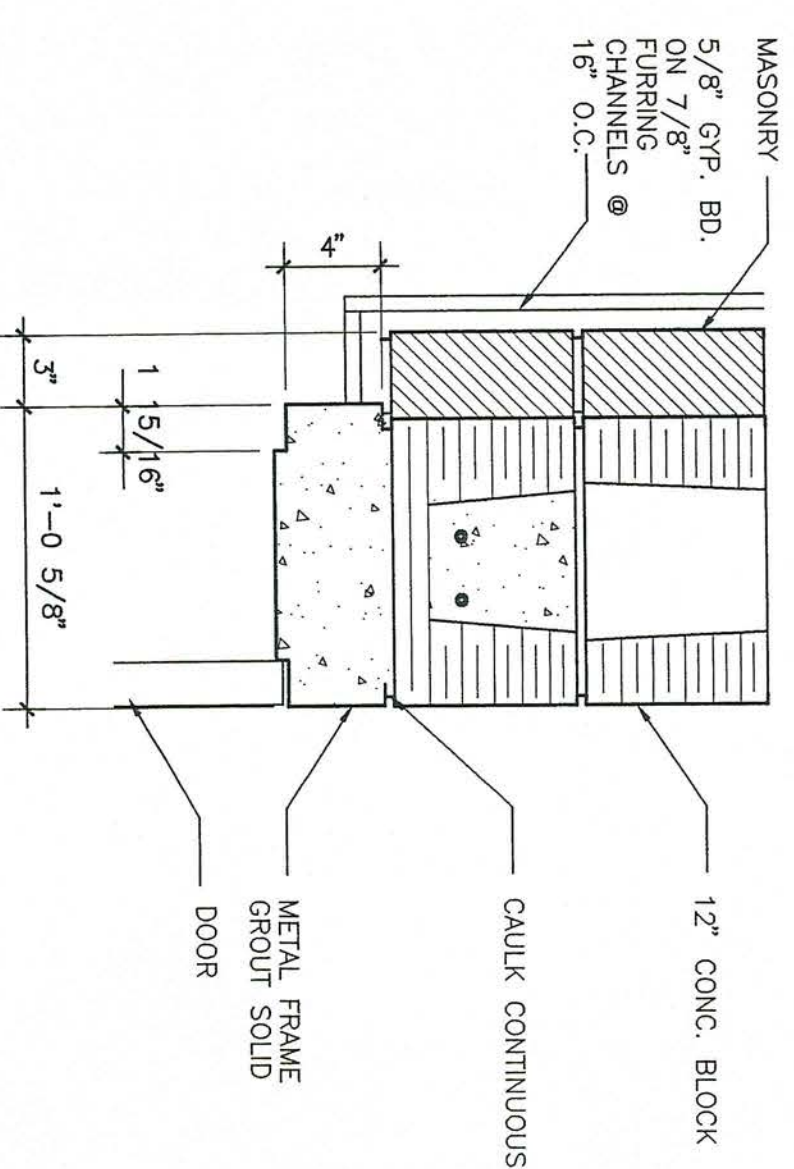
**ROBERT STANLEY HICKORY**  
 LICENSED ARCHITECT  
 No. 112

**RENOVATIONS AND ADDITIONS FOR THE NEW PUBLIC SAFETY BUILDING**  
 Pine Knoll Shores, North Carolina  
**DOOR, WINDOWS TYPES & HARDWARE SCHEDULE**  
 sheet 4.70

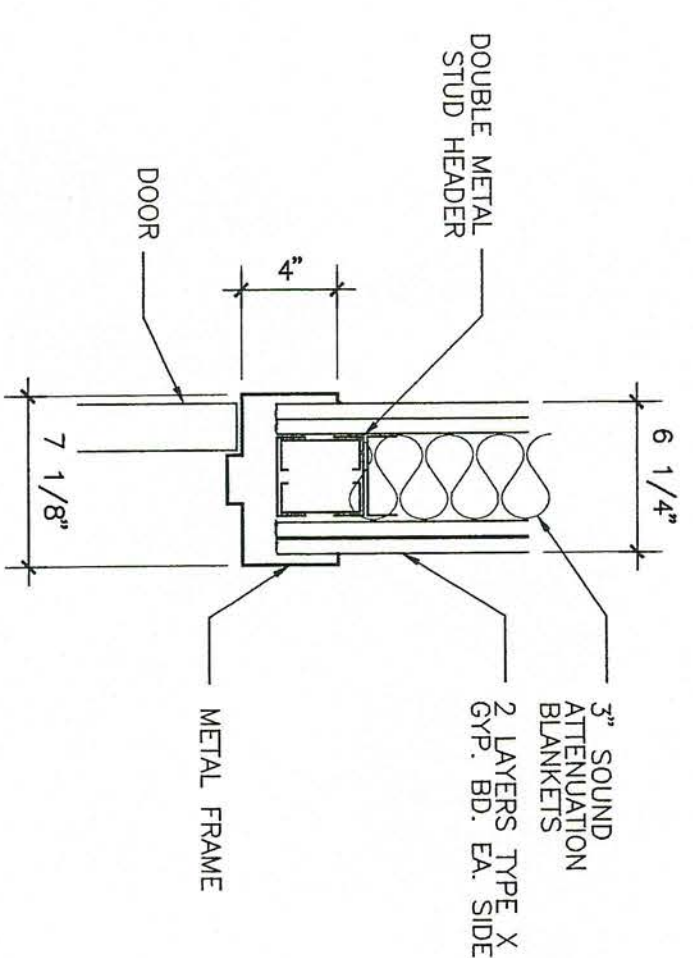




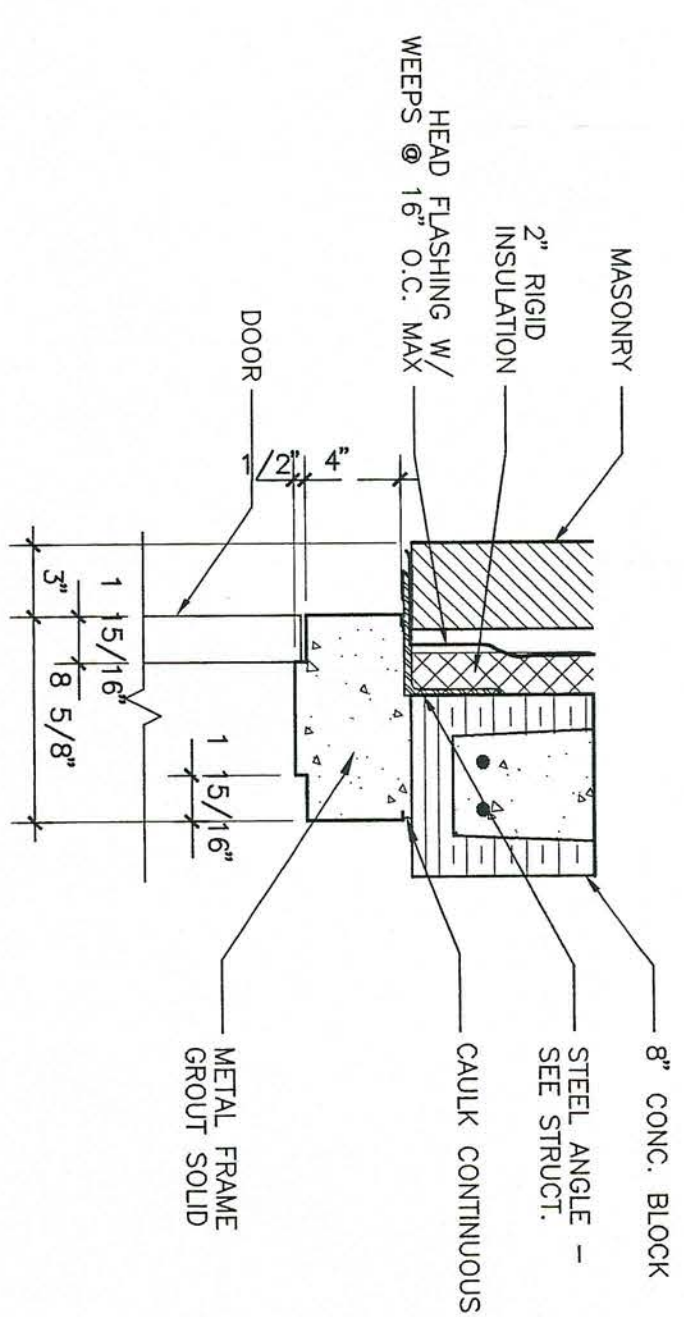
1 INT. HEAD  
4.71 SCALE: 1/2" = 1'-0"



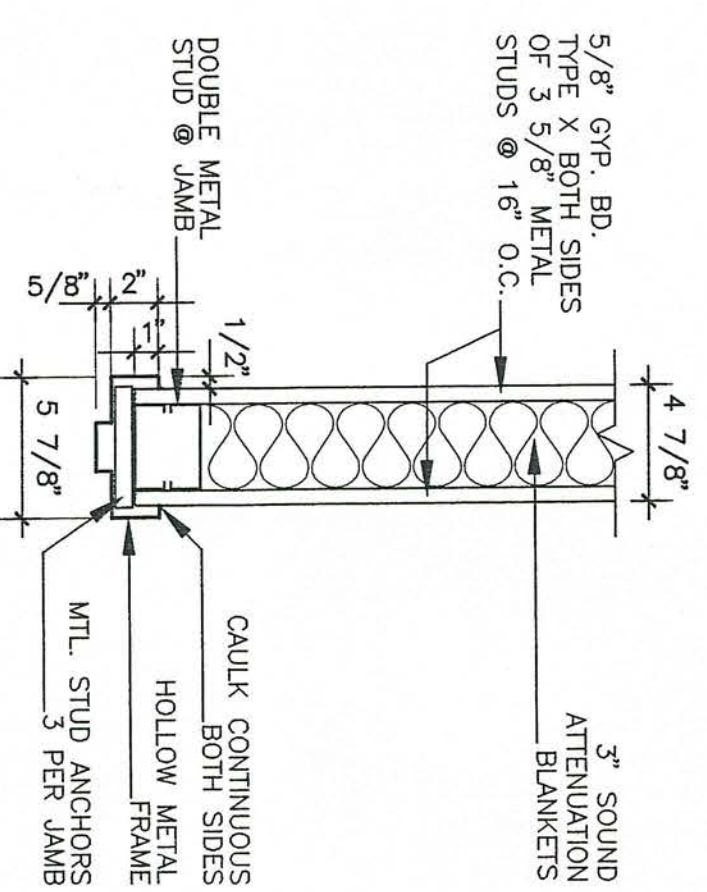
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4.71 SCALE: 1/2" = 1'-0"



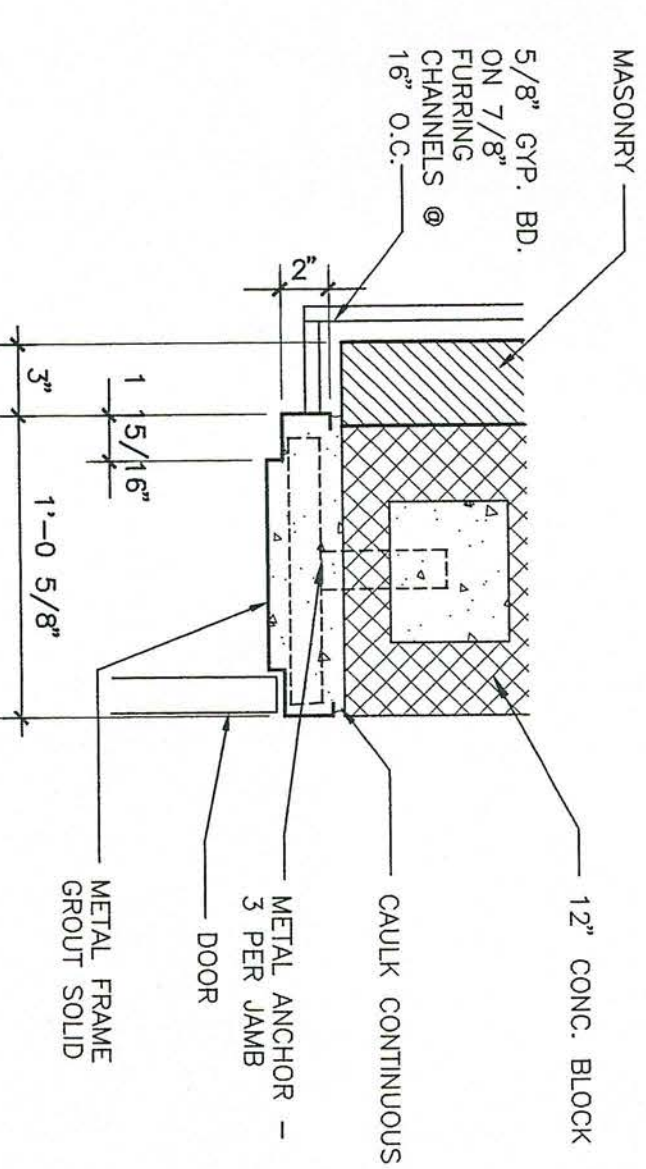
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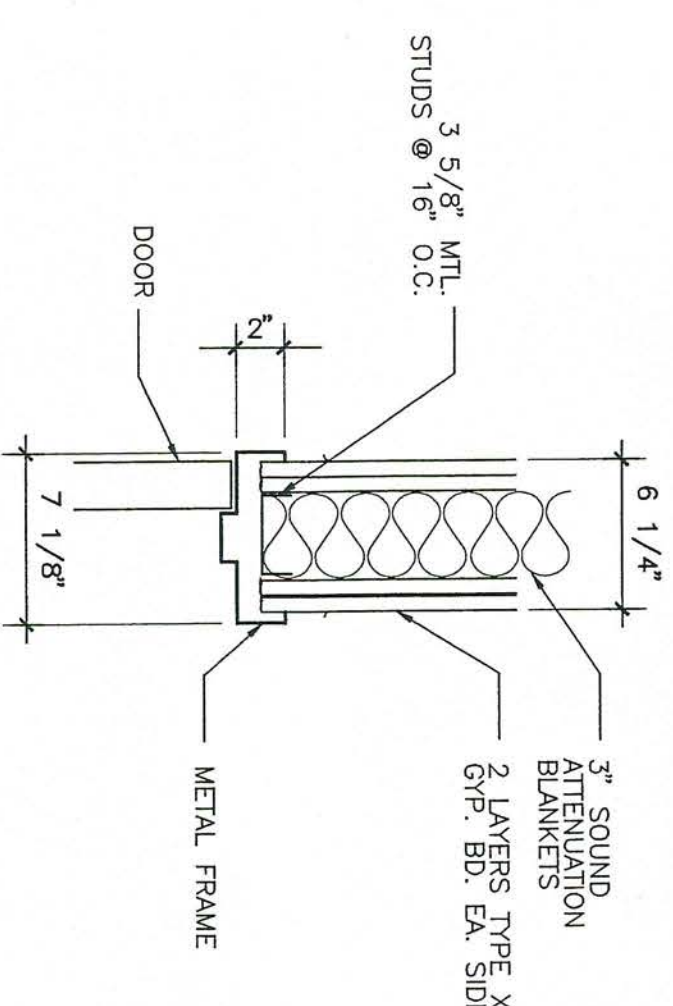
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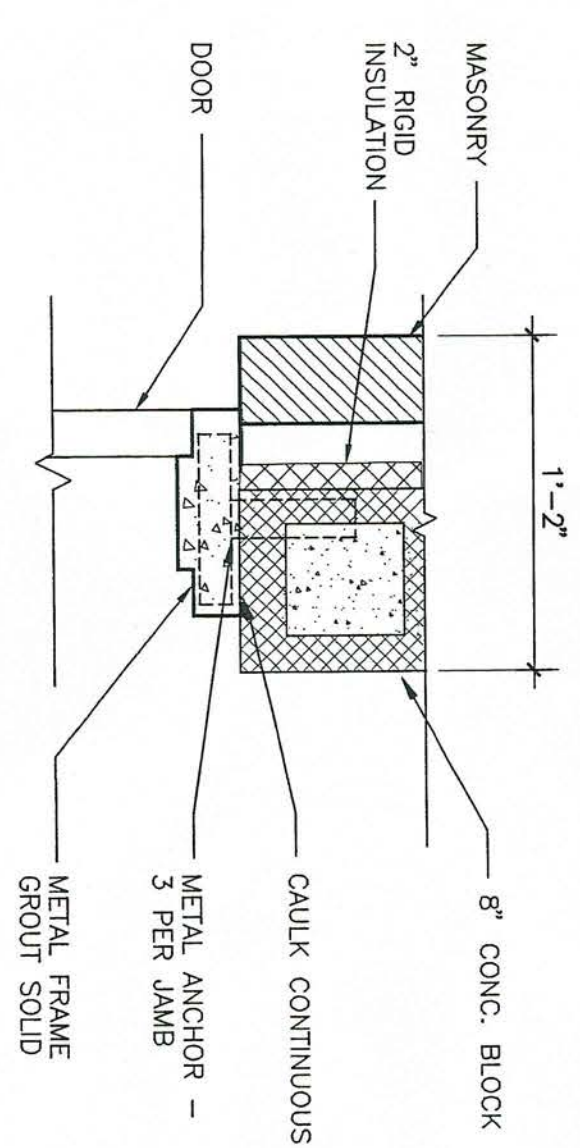
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4.71 SCALE: 1/2" = 1'-0"



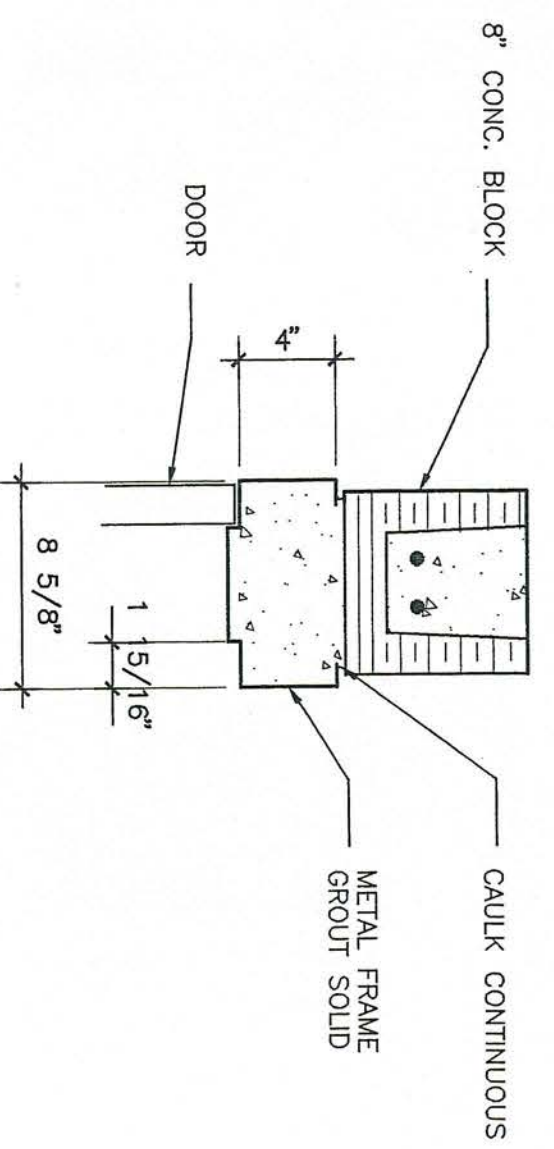
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4.71 SCALE: 1/2" = 1'-0"



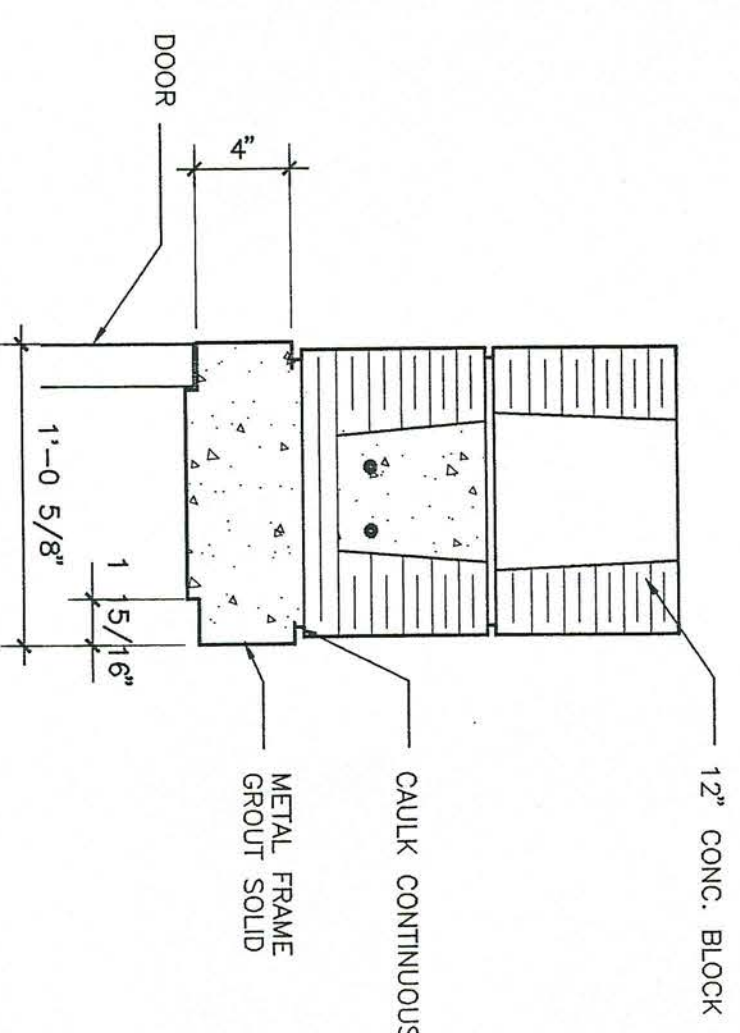
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4.71 SCALE: 1/2" = 1'-0"



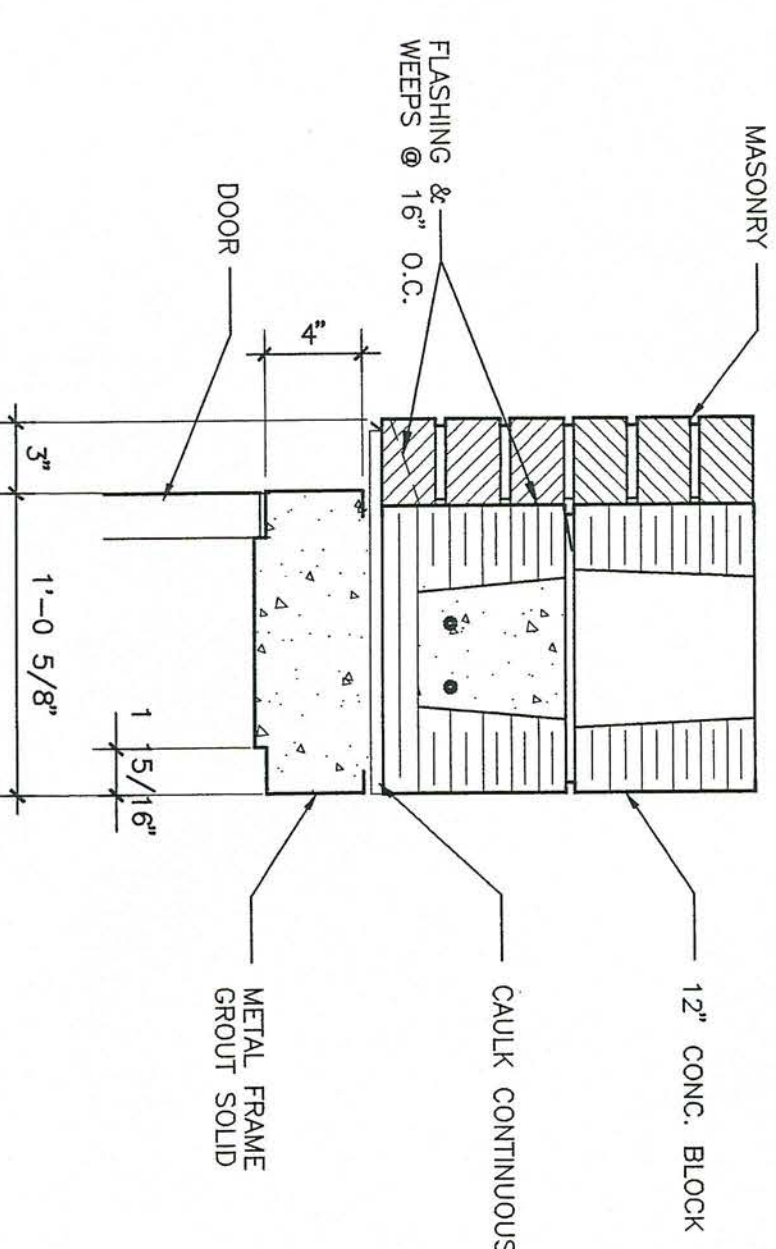
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4.71 SCALE: 1/2" = 1'-0"



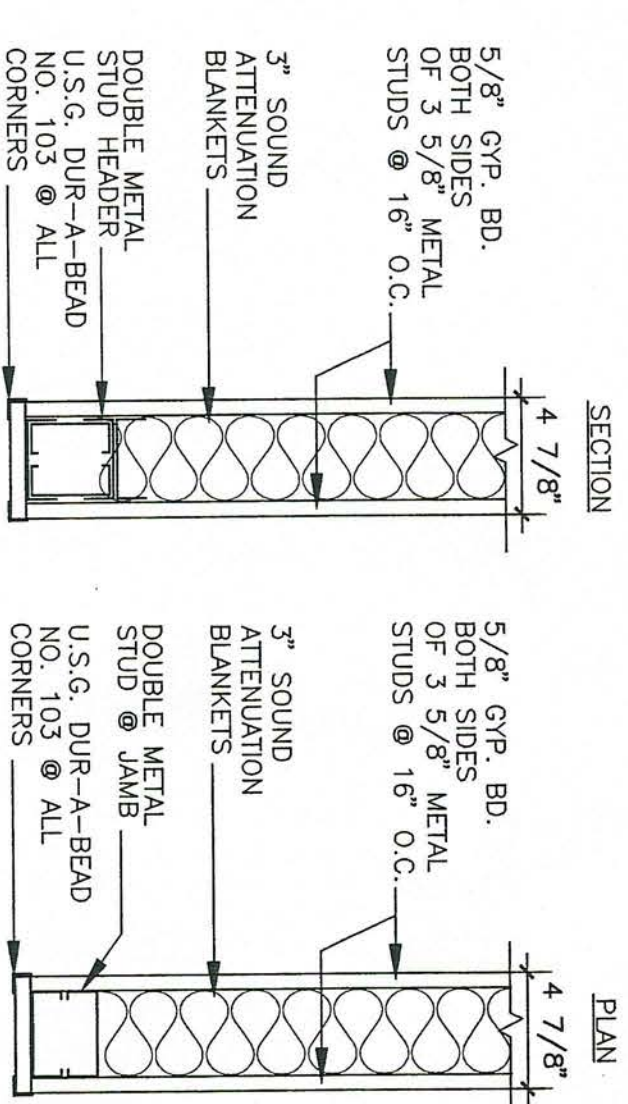
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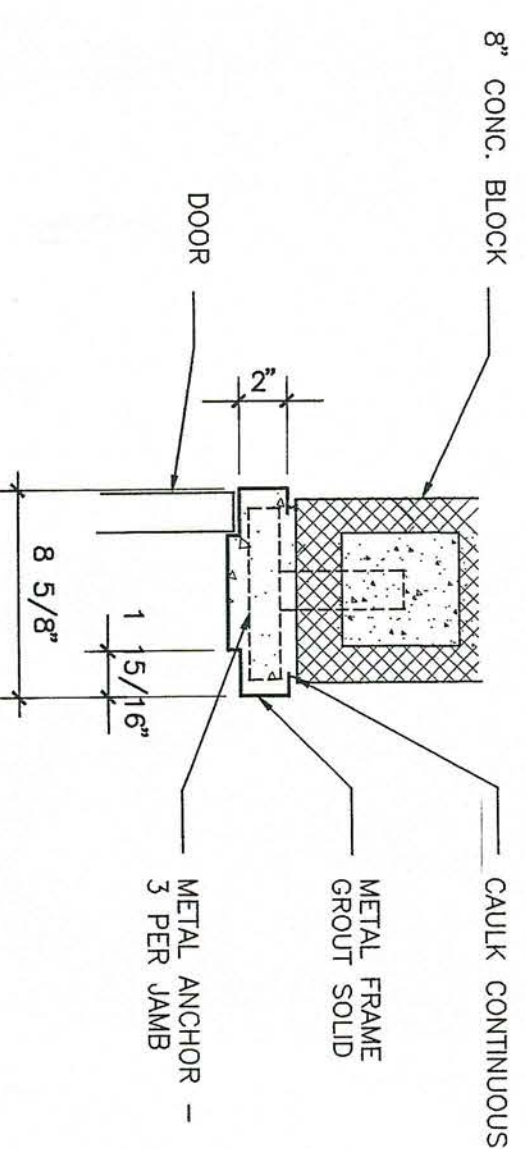
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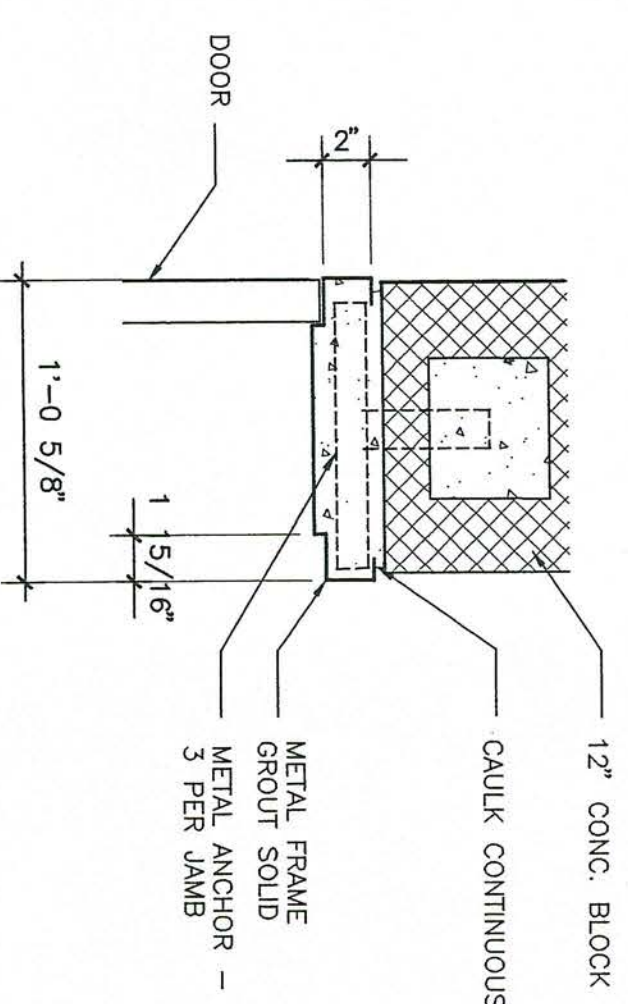
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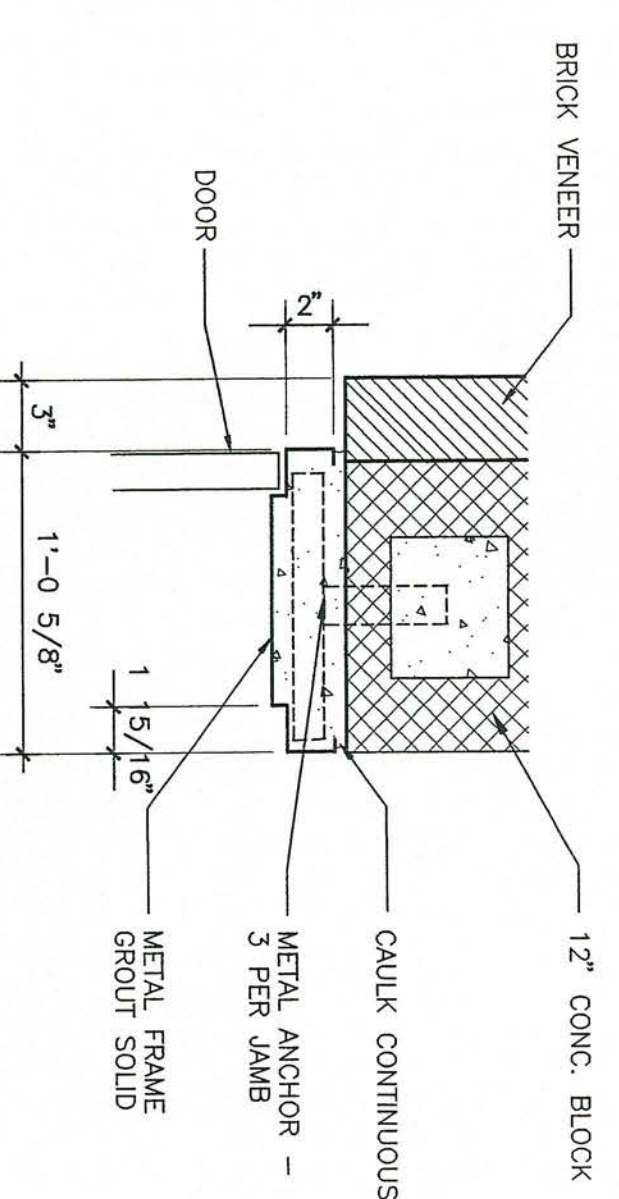
12 BULK HEAD SECTION & PLAN  
4.71 SCALE: 1/2" = 1'-0"



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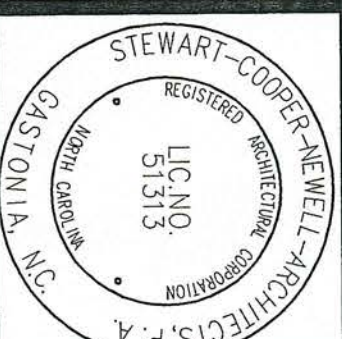


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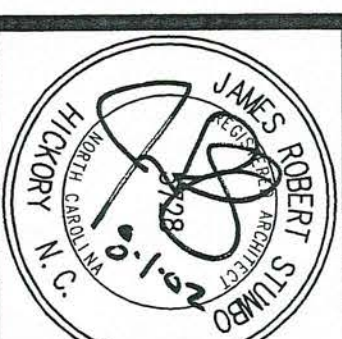
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Project No. 999  
Date 8-01-02  
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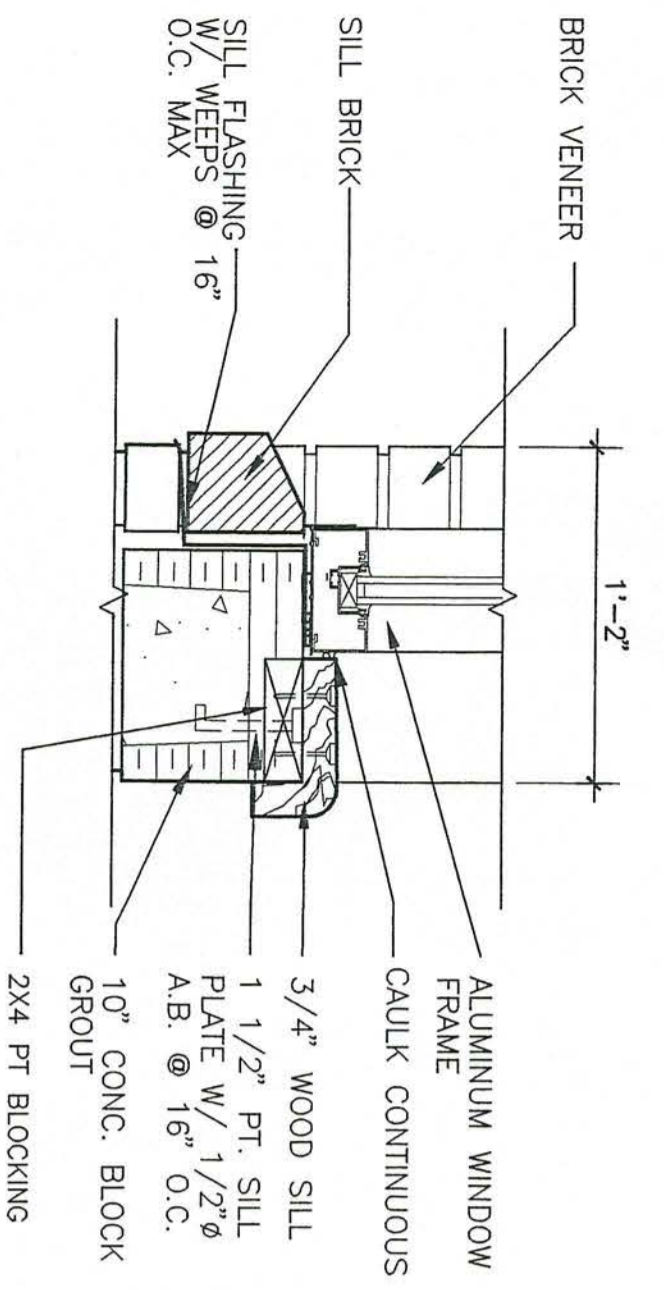
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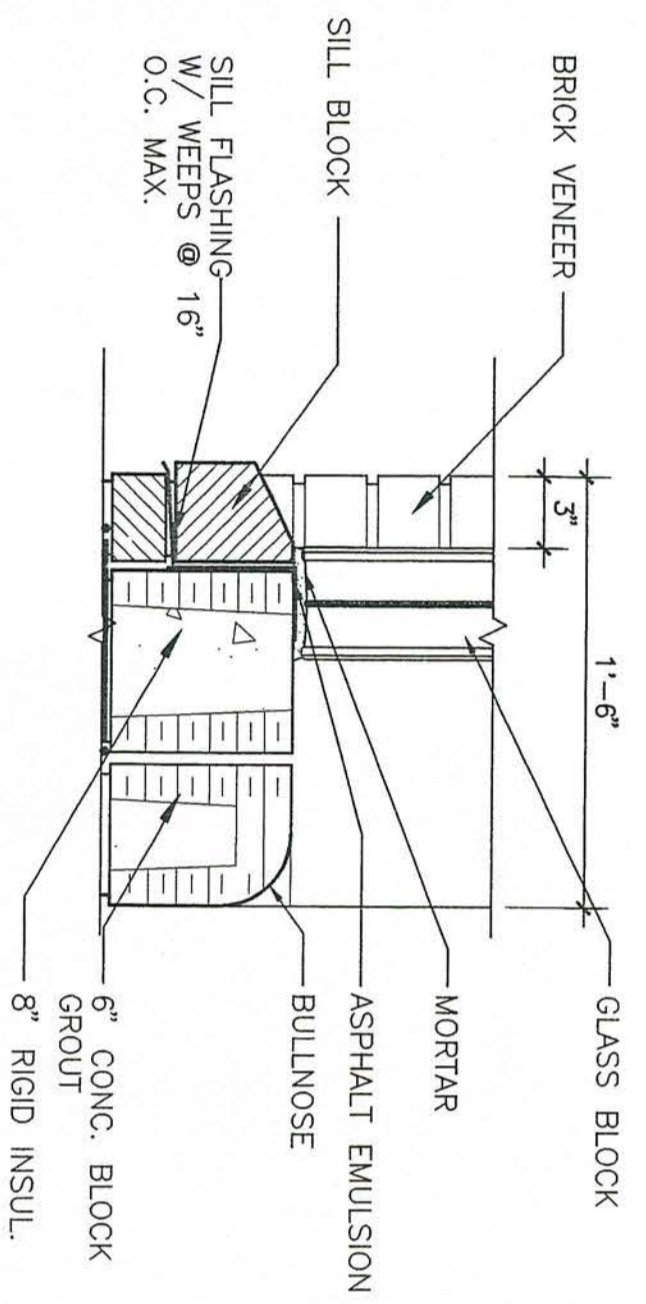


RENOVATIONS AND ADDITIONS FOR THE  
NEW PUBLIC SAFETY BUILDING  
Pine Knoll Shores, North Carolina  
DOORS & WINDOWS DETAILS

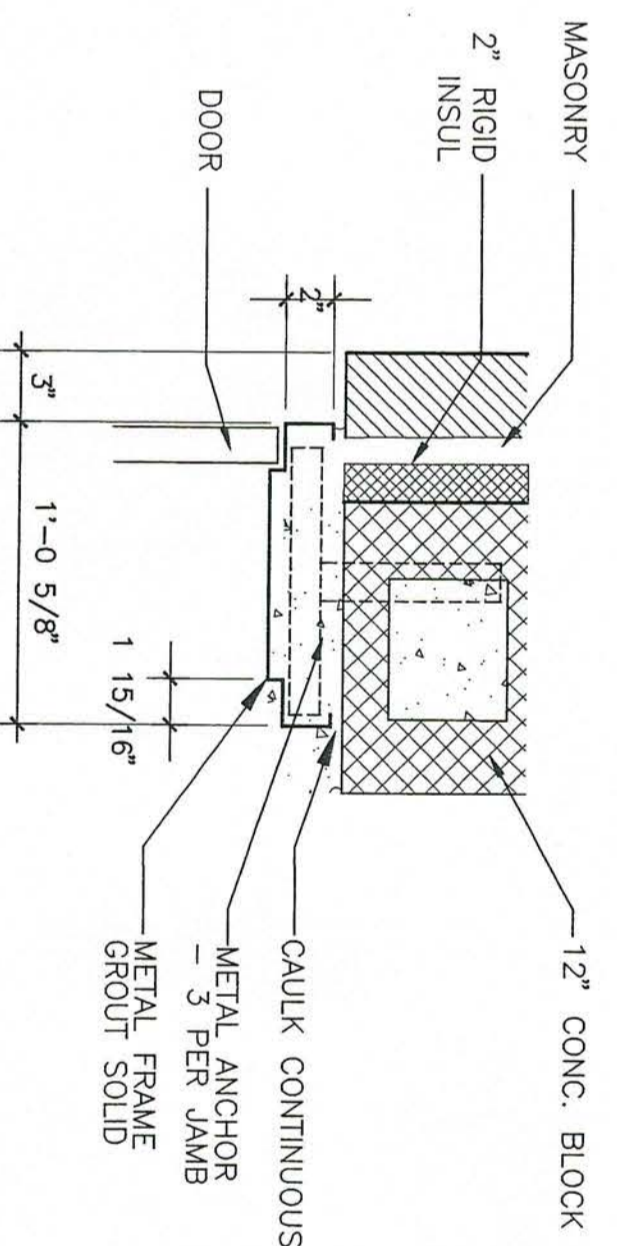




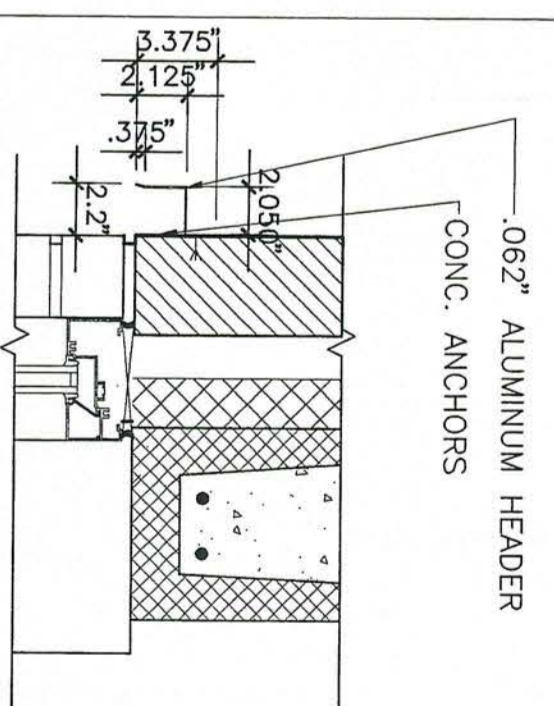
1 WINDOW SILL DETAIL  
4.7/2 1 1/2" = 1'-0"



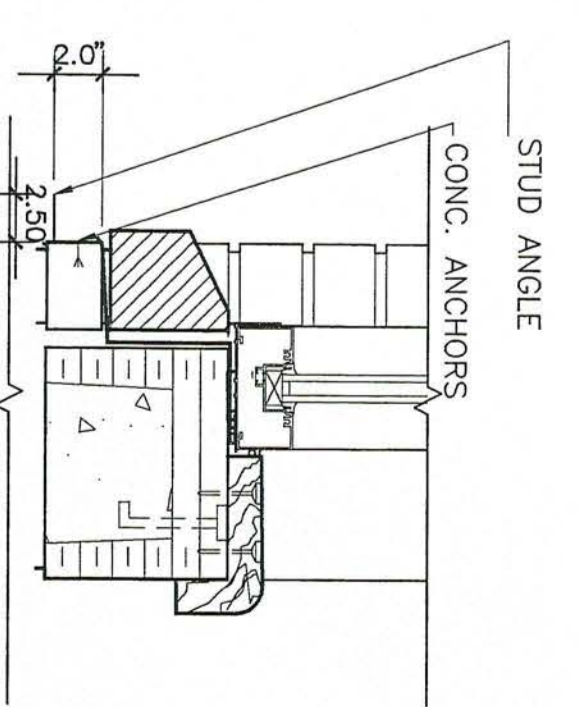
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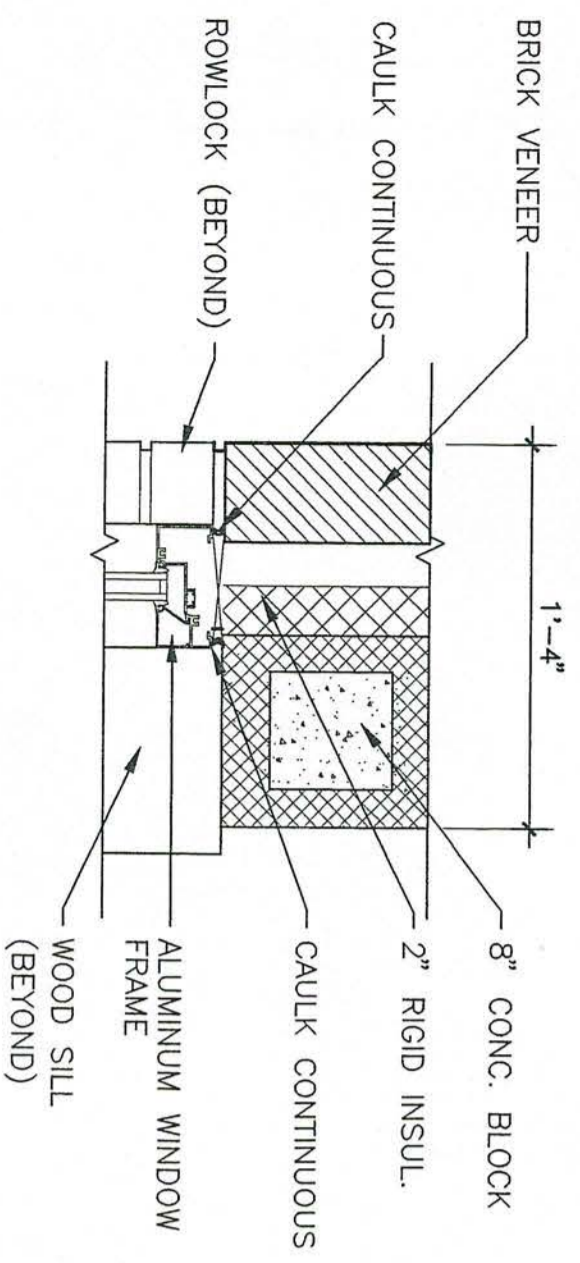
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4.7/2 SCALE: 1 1/2" = 1'-0"



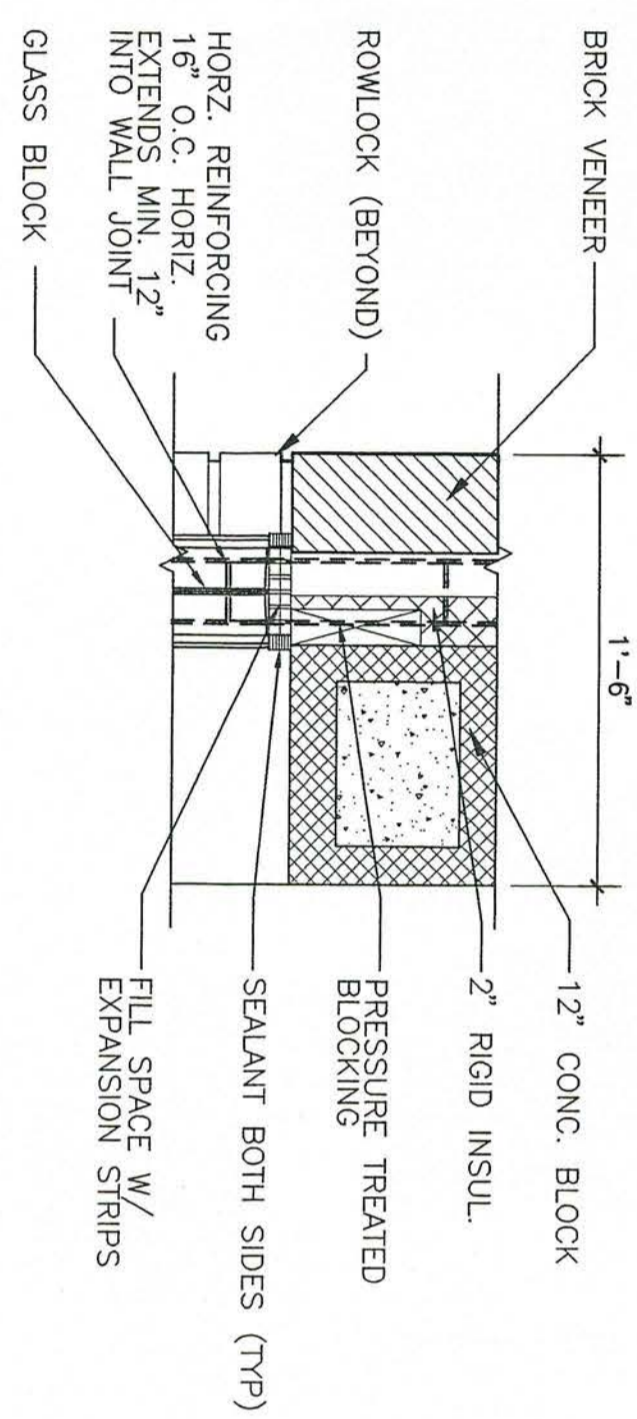
23 HURRICANE SHUTTER HEADER DETAIL  
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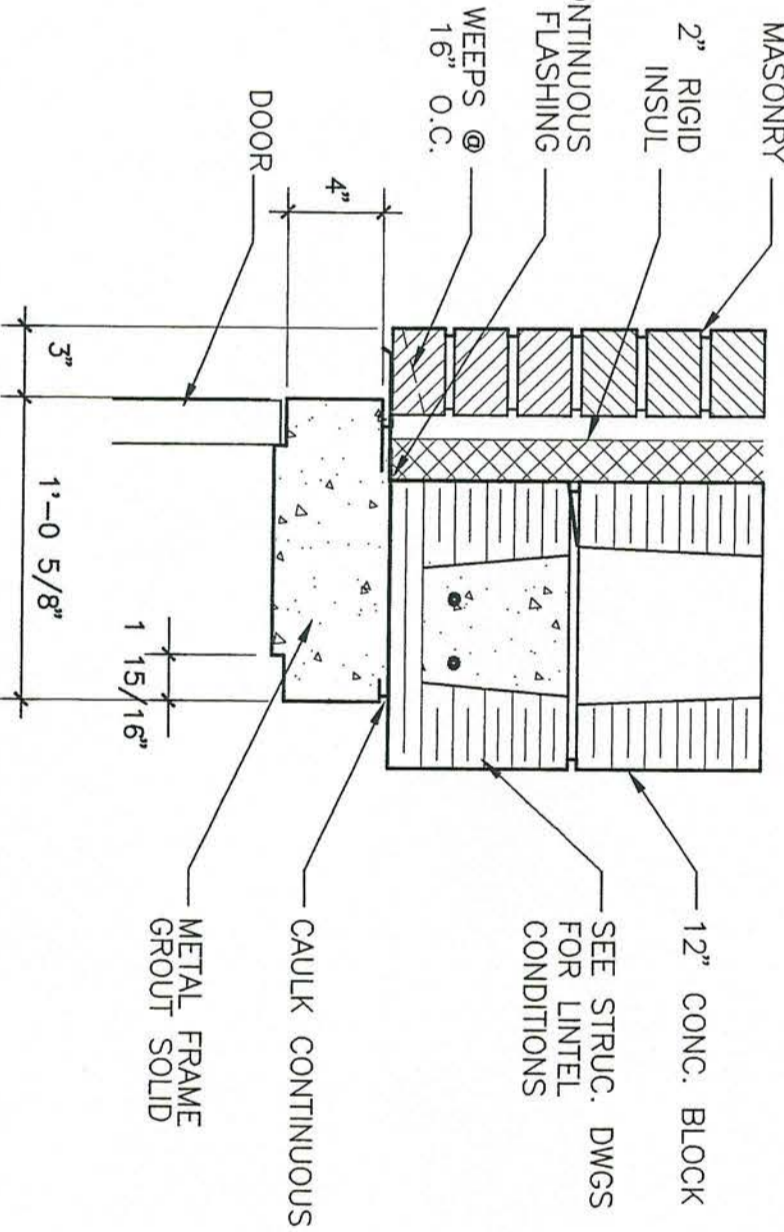
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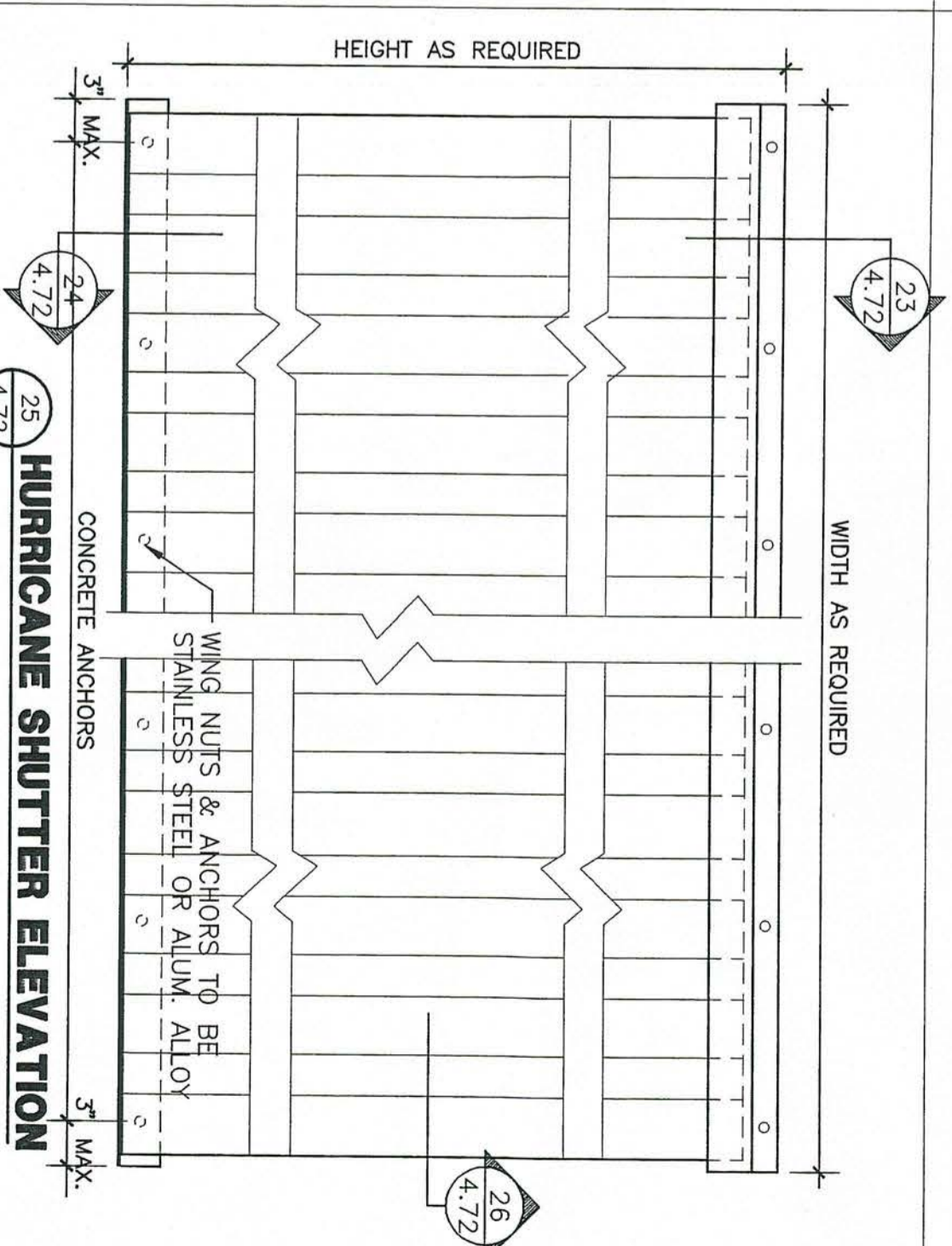
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4.7/2 1 1/2" = 1'-0"



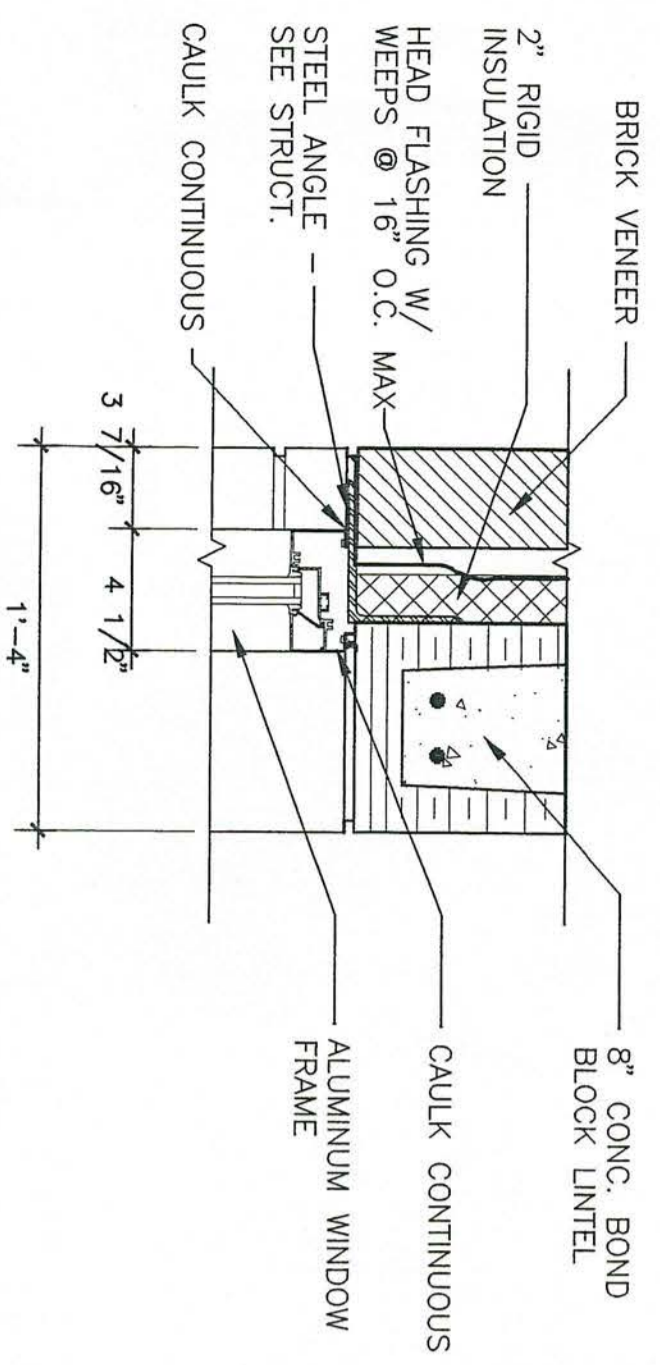
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4.7/2 1 1/2" = 1'-0"



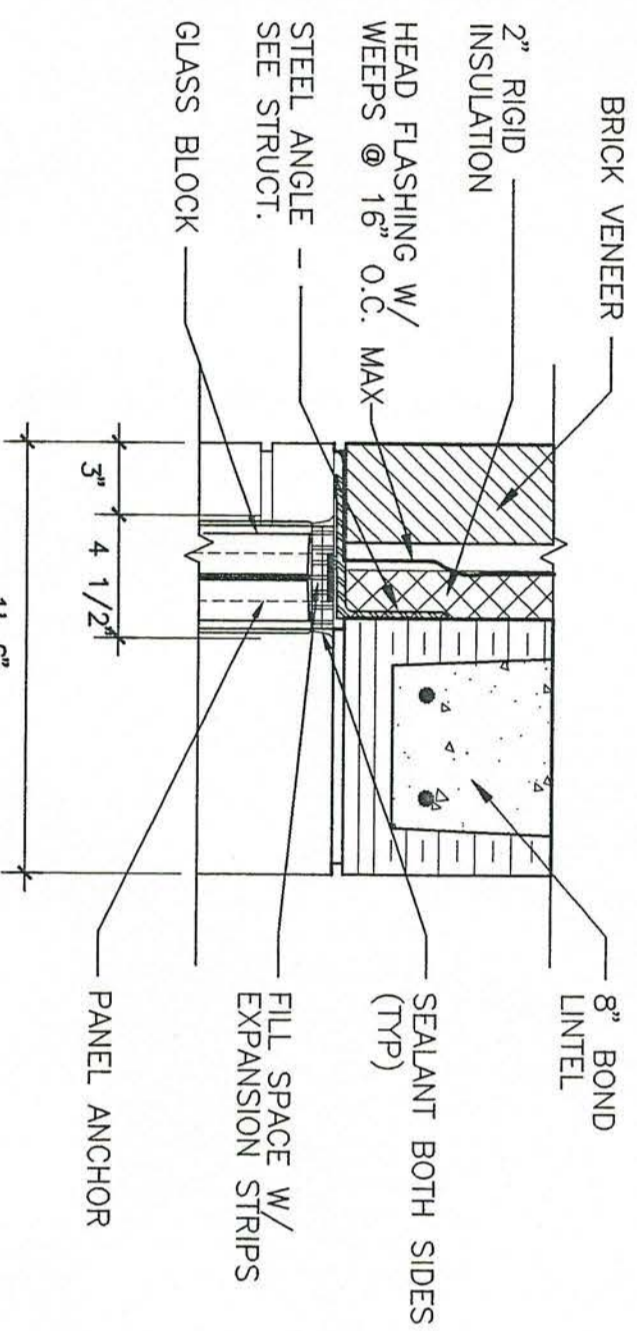
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4.7/2 SCALE: 1 1/2" = 1'-0"



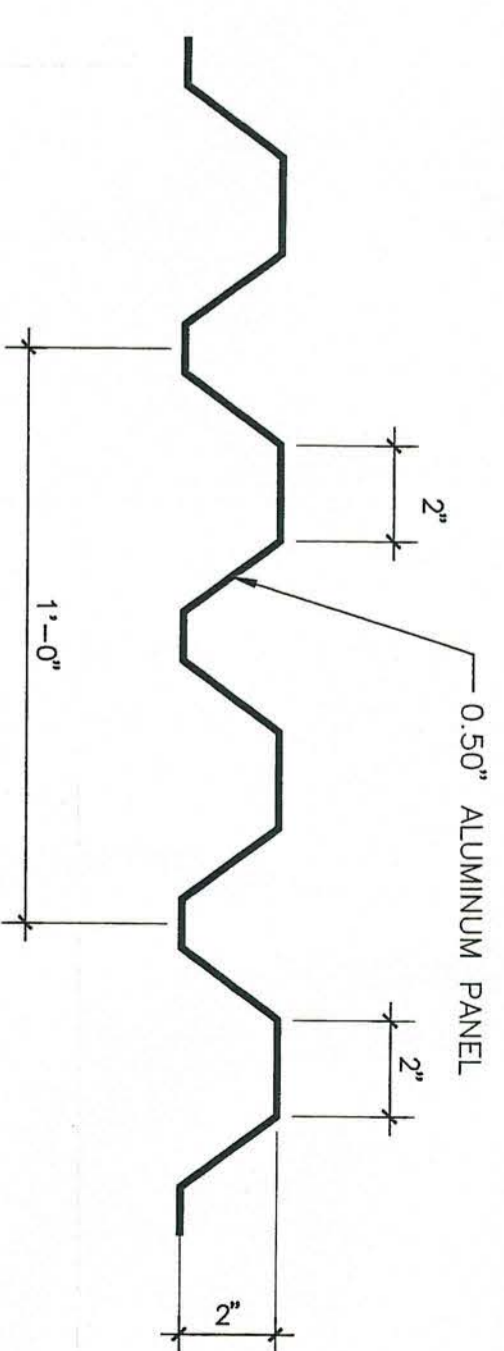
25 HURRICANE SHUTTER ELEVATION  
4.7/2 N.T.S.



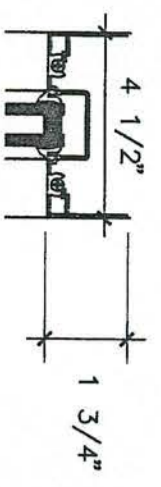
7 WINDOW HEAD DETAIL  
4.7/2 1 1/2" = 1'-0"



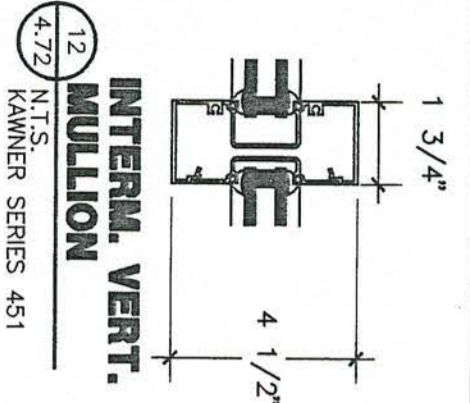
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4.7/2 1 1/2" = 1'-0"



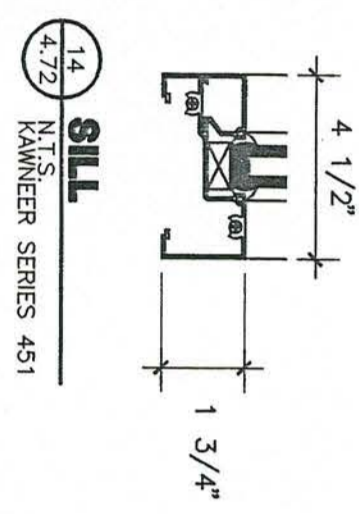
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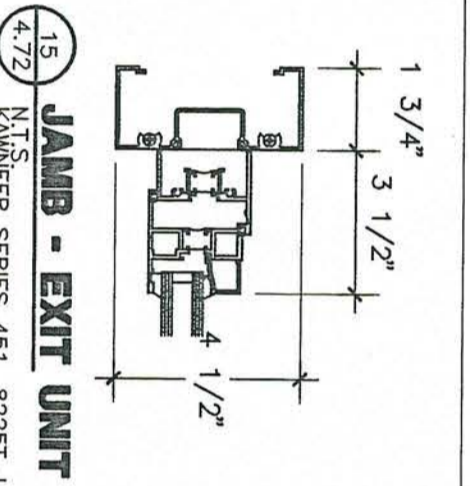
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4.7/2 KAMNER SERIES 451



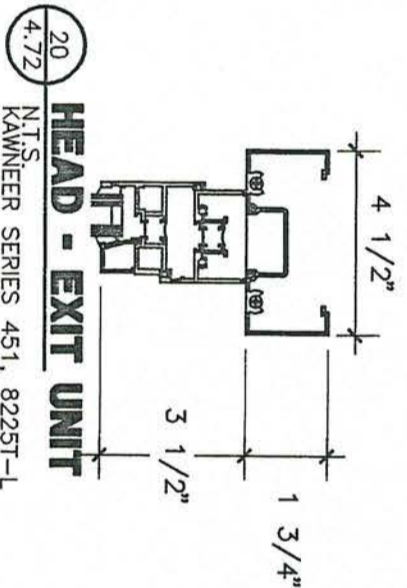
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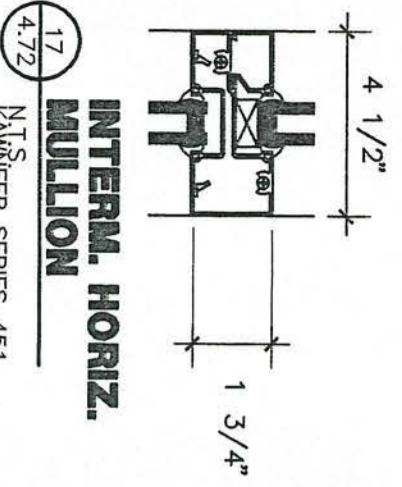
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4.7/2 KAMNER SERIES 451



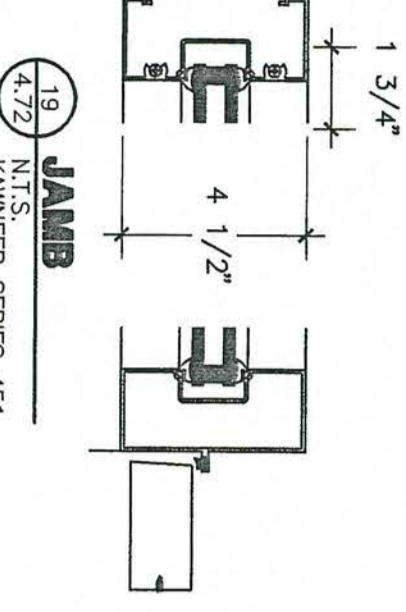
15 JAMB - EXIT UNIT  
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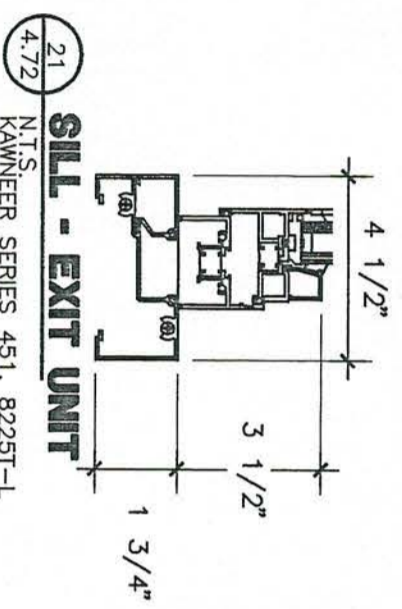
16 HEAD - EXIT UNIT  
4.7/2 KAMNER SERIES 451, 8225T-L



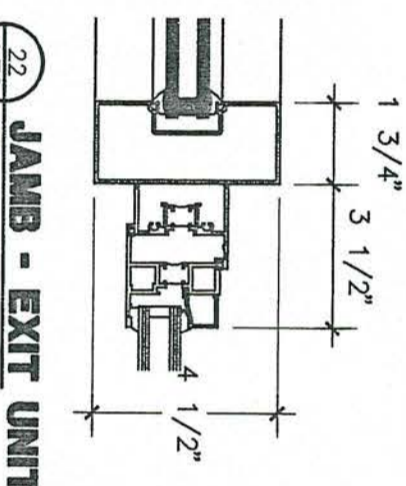
17 INTERNAL HORIZ. MULLION  
4.7/2 KAMNER SERIES 451



19 JAMB  
4.7/2 N.T.S. KAMNER SERIES 451



21 SILL - EXIT UNIT  
4.7/2 N.T.S. KAMNER SERIES 451, 8225T-L



22 JAMB - EXIT UNIT  
4.7/2 N.T.S. KAMNER SERIES 451, 8225T-L



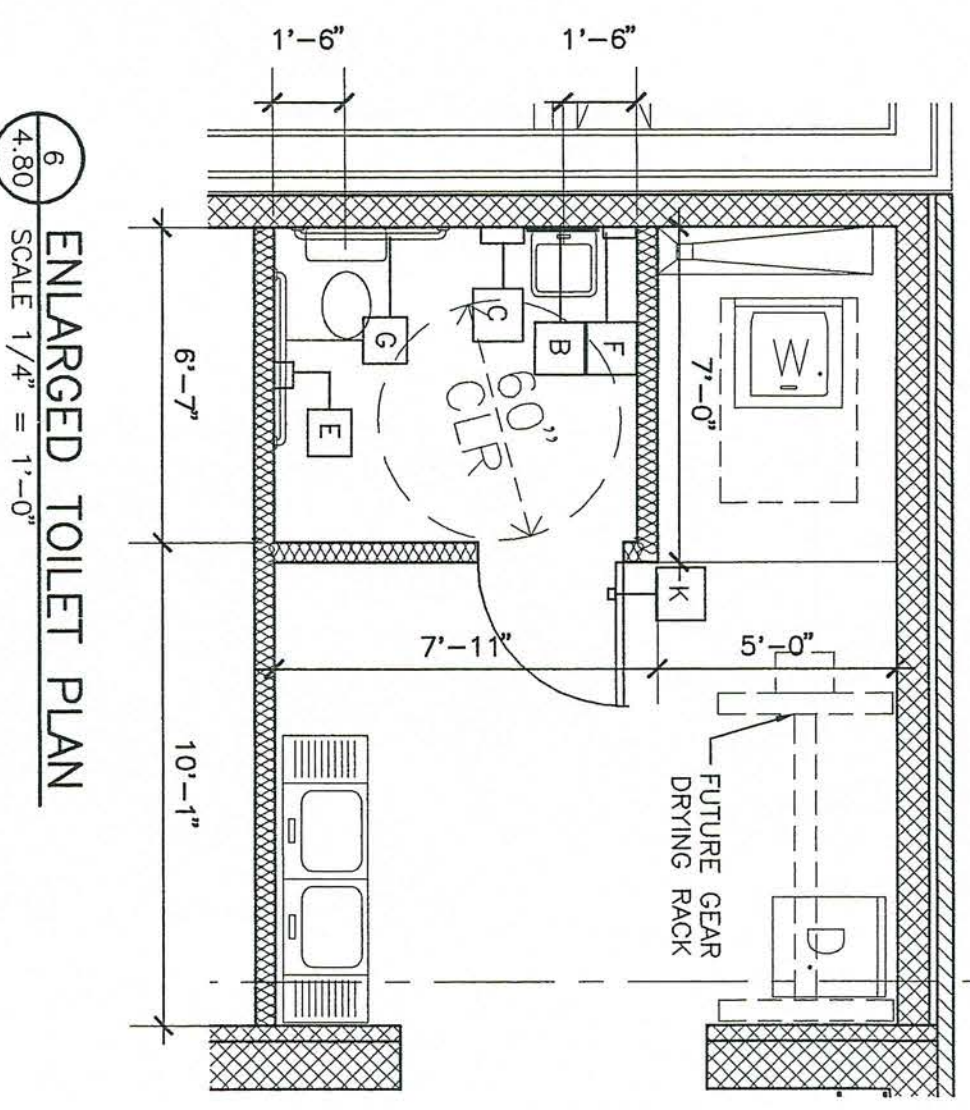
# TOILET ACCESSORIES

SPECIFICATIONS SECTION 10800 TOILET AND BATH ACCESSORIES

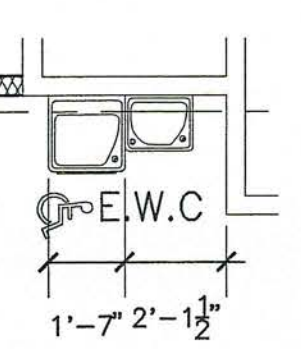
GENERAL NOTES:  
 PRODUCTS AS MANUFACTURED BY FOLLOWING WILL BE ACCEPTED AS EQUAL:  
 BOBRICK CORPORATION  
 BRADLEY CORPORATION  
 WERLOCK CORPORATION  
 WERLOCK DISPENSER COMPANY

- TOILET ACCESSORIES SHALL BE STAINLESS STEEL UNLESS NOTED OTHERWISE. TO THE GREATEST EXTENT POSSIBLE, USE TOILET ACCESSORIES MANUFACTURED BY ONE COMPANY.
- PROVIDE 2 x 8 MINIMUM WOOD BLOCKING IN ALL WALLS BEHIND ALL TOILET ACCESSORIES. INSTALL ALL TOILET ACCESSORIES AS REQUIRED TO COMPLY WITH GOVERNING CODE REQUIRING ACCESS FOR THE HANDICAPPED.
- INSTALL TOILET ACCESSORIES IN STRICT ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS.

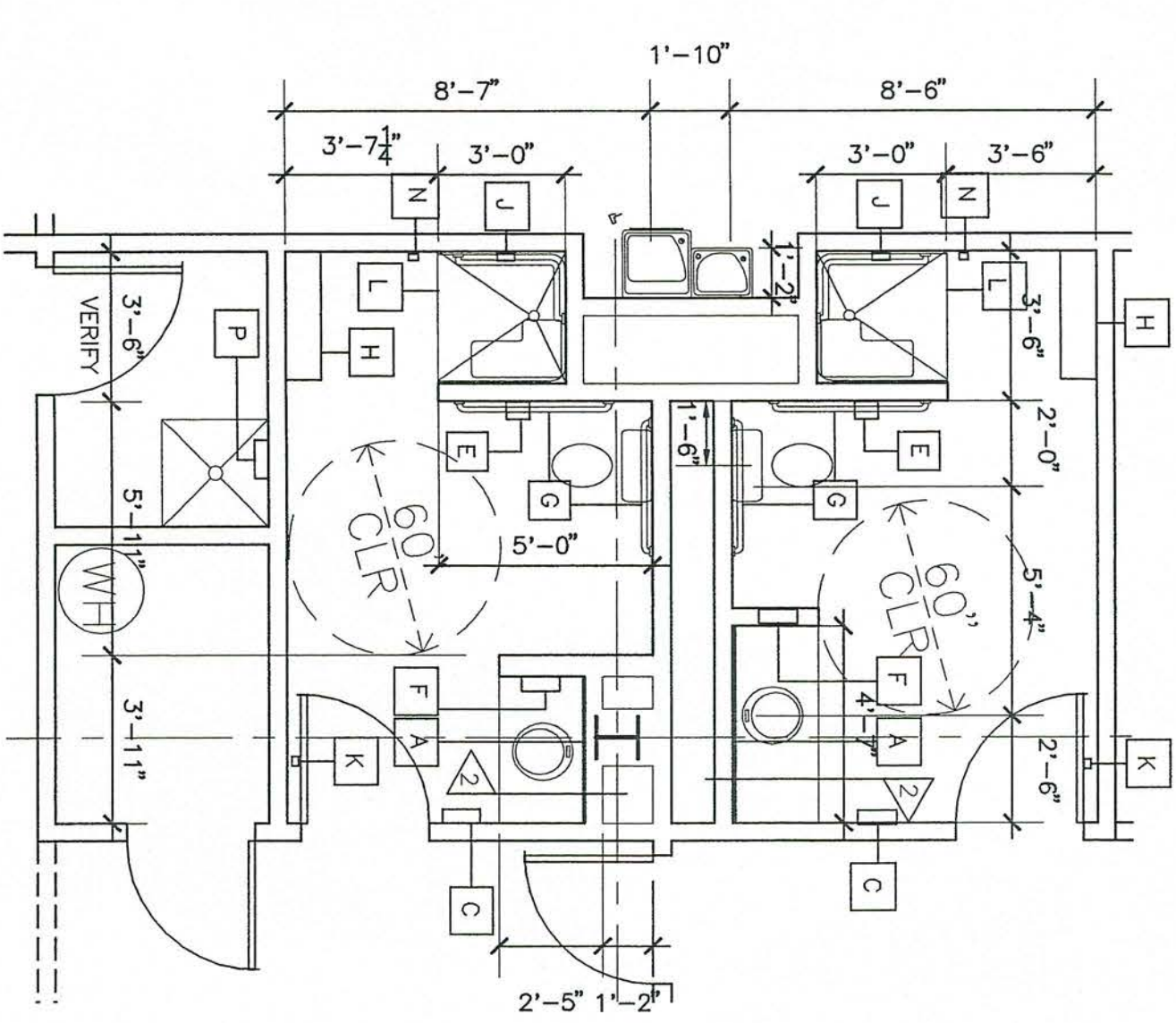
MARK	ITEM	SPECIFICATIONS
A	MIRROR TYPE "A"	BOBRICK MODEL NO. B-165 SIZE: LENGTH OF THE VANITY x 30" HIGH
B	MIRROR TYPE "B"	BOBRICK MODEL NO. B-165 SIZE: 18" X 60"
C	PAPER TOWEL DISPENSER AND WASTE RECEPTACLE	BOBRICK MODEL NO. B-3944
D	GRAB BARS HORIZONTAL ON TWO WALLS 5' X 5' COMPARTMENT PROVIDE ONE PAIR	BOBRICK MODEL NO. B-6808X42" SIZE: 42"
E	TOILET TISSUE DISPENSER DOUBLE ROLL	BOBRICK MODEL NO. B-2892
F	DISPENSER FOR LIQUID SOAPS, LOTIONS, AND DETERGENTS.	BY OWNER
G	GRAB BARS HORIZONTAL ON TWO WALLS 5' X 5' COMPARTMENT PROVIDE ONE PAIR	BOBRICK MODEL NO. B-6808X30" SIZE: 30" BOBRICK MODEL NO. B-6808X42" SIZE: 42"
H	SHELF W/ ROBE HOOK	SEE SECT. 9/4.80
J	SOAP DISH	BOBRICK MODEL NO. B-68007
K	CLOTHES HOOK	BOBRICK MODEL NO. B-212 MOUNTED 60" ABOVE FIN. FLR. MOUNTED 48" STALLS MOUNT 48" ABOVE FINISH FLOOR.
L	CLASSIC SERIES HEAVY-DUTY SHOWER CURTAIN ROD WITH VANITY SHOWER CURTAIN AND SHOWER CURTAIN HOOKS	BOBRICK MODEL NO. 6107 36" LENGTH BOBRICK MODEL NO. 204-2 42" W X 72" H BOBRICK MODEL NO. 204-1 (AS REQUIRED)



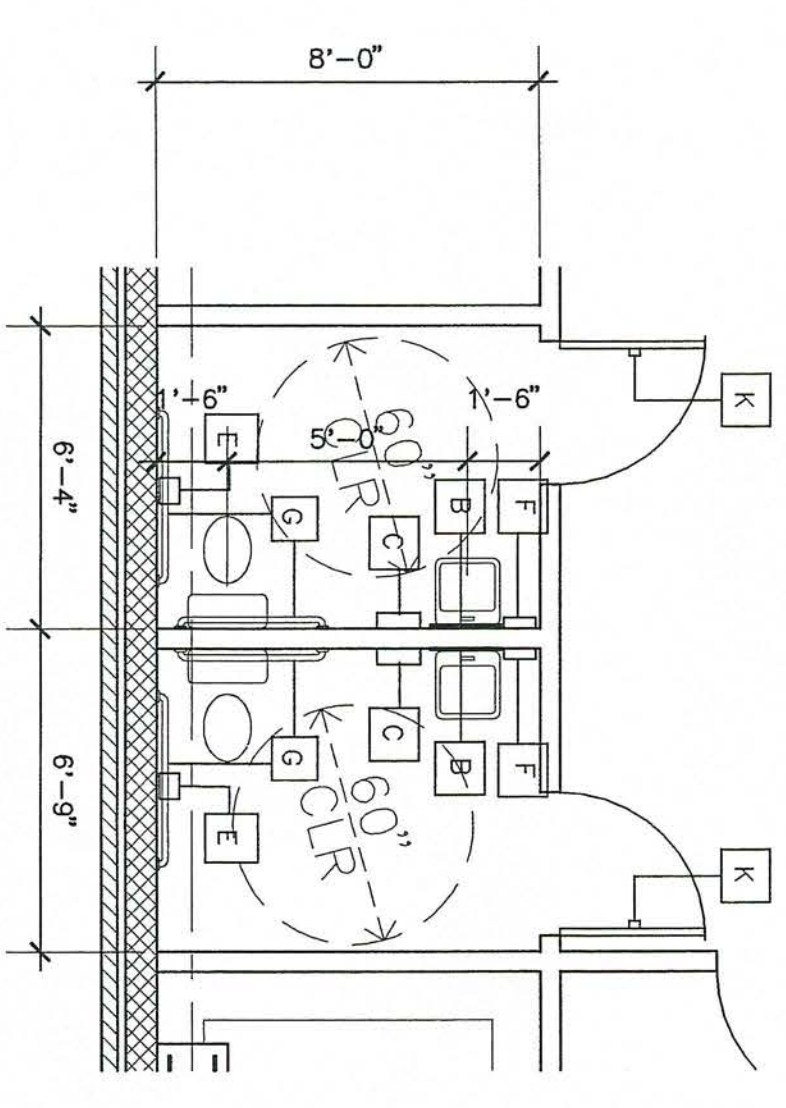
4.80 ENLARGED TOILET PLAN  
SCALE 1/4" = 1'-0"



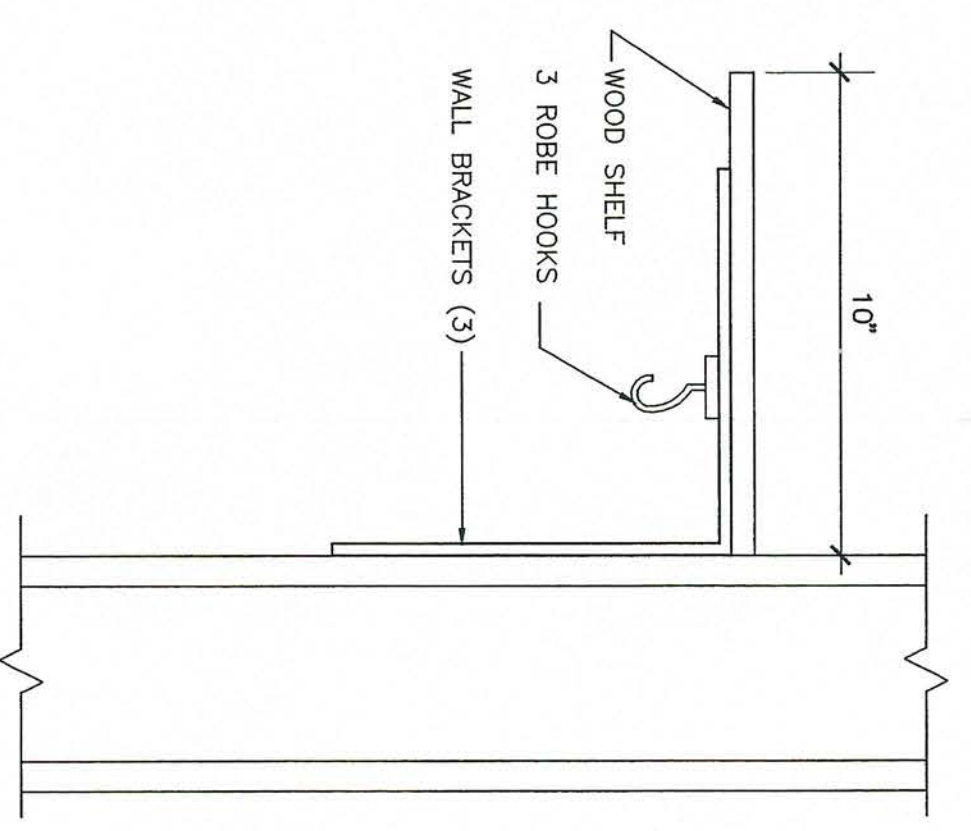
4.80 ENLARGED EWC PLAN  
SCALE 1/4" = 1'-0"



4.30 ENLARGED TOILET PLAN  
SCALE 1/4" = 1'-0"



4.10 ENLARGED TOILET PLAN  
SCALE 1/4" = 1'-0"

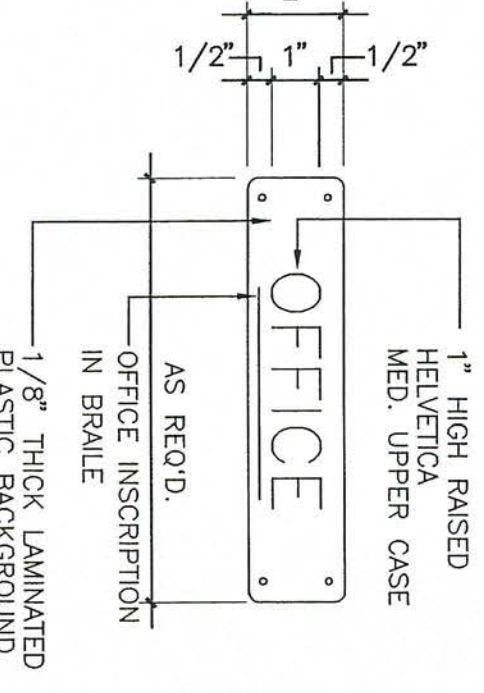


4.10 ENLARGED TOILET PLAN  
SCALE 1" = 1'-0"

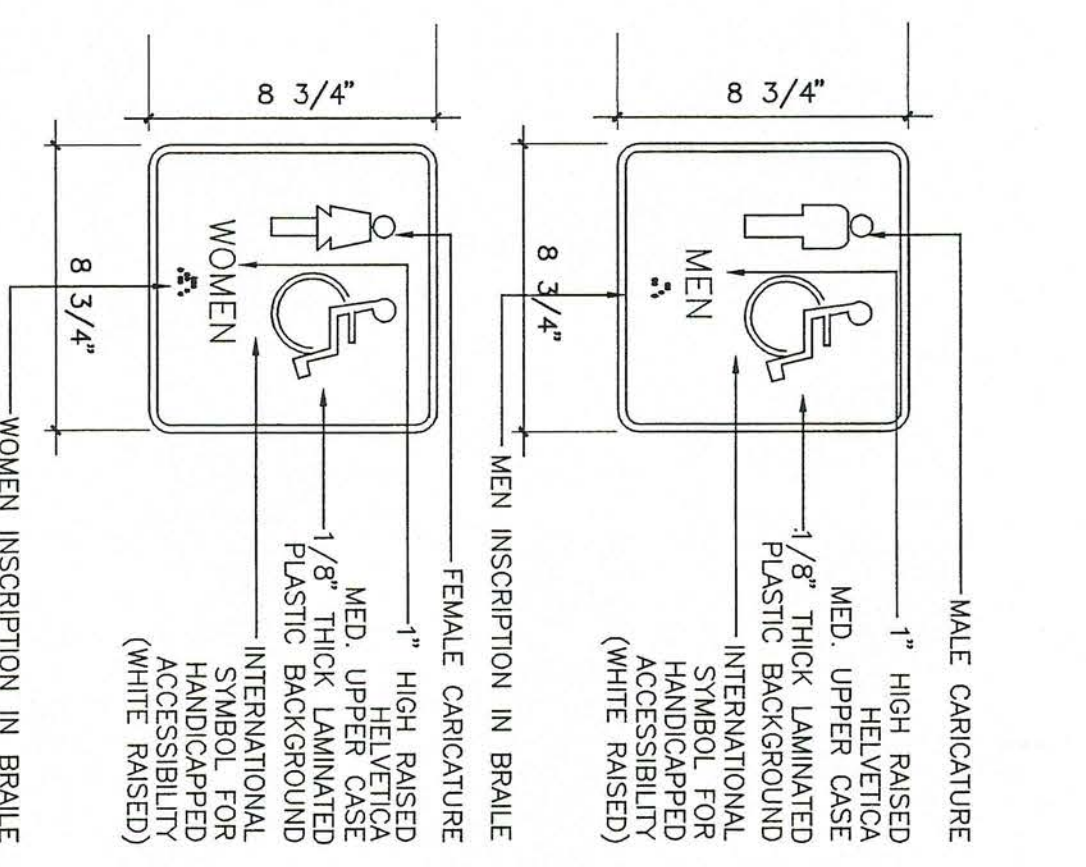
### NOTES:

- BACKGROUND COLOR SHALL BE SELECTED BY THE ARCHIT.
- ALL DOOR SIGNS TO HAVE BRAILLE INSCRIPTIONS, LETTERS NUMERALS & CARICATURE TO BE RAISED 1/32" MIN. - LETTERS TO BE ARABIC TYPE.
- ALL DOOR SIGNS TO HAVE BRAILLE INSCRIPTIONS, LETTERS, NUMERALS & CARICATURE TO BE RAISED 1/32" MIN. - LETTERS TO BE ARABIC TYPE.
- MOUNT ALL DOOR SIGNS 60" A.F.F. TO CENTER OF THE SIGN & 3" FROM EDGE OF DOOR JAMB.
- MOUNT ON SURFACES WITH VINYL PRESSURE SENSITIVE FOAM TAPE AND 4 CHROME PLATED PHILLIPS HEAD SCREWS ON EACH SIGN.
- INSTALL DOOR SIGN ON WALL ADJ. TO THE DOOR LATCH U.N.O.
- DOOR SIGNS - MESH, & ELECT. EQUIP. ROOMS, PUBLIC TOILETS & EXIT STAIRS TO BE CENTERED ON DOOR.

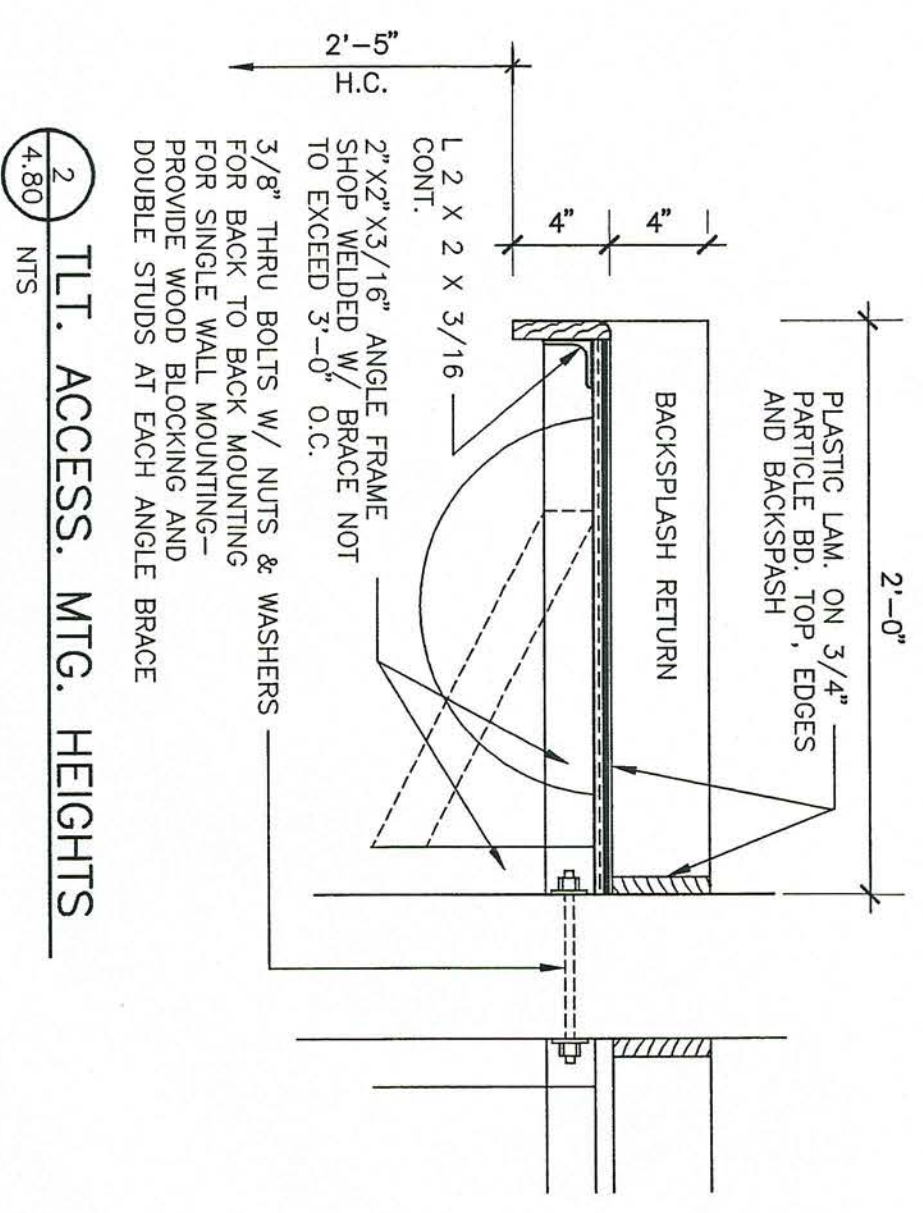
4.30 DOOR SIGN DETAILS  
NTS



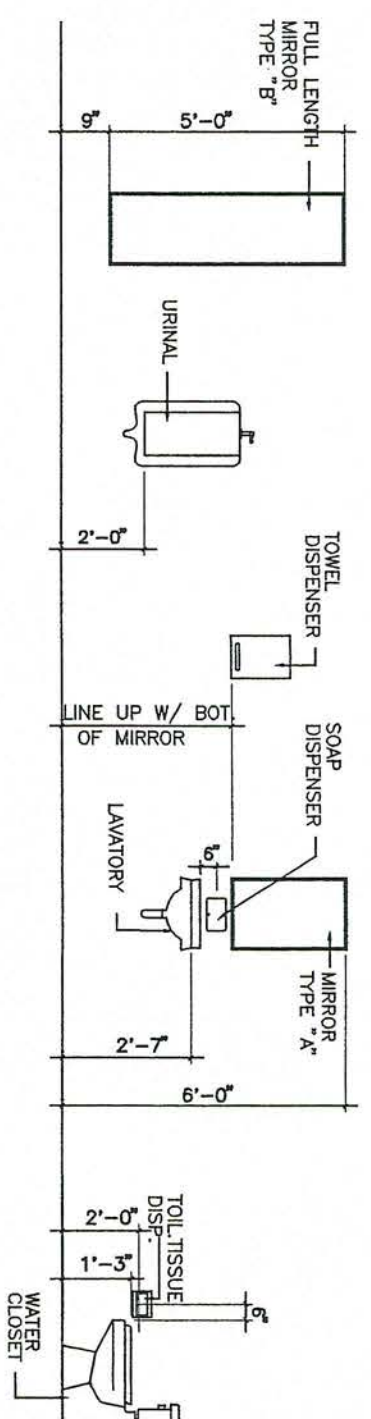
4.30 DOOR SIGN DETAILS  
NTS



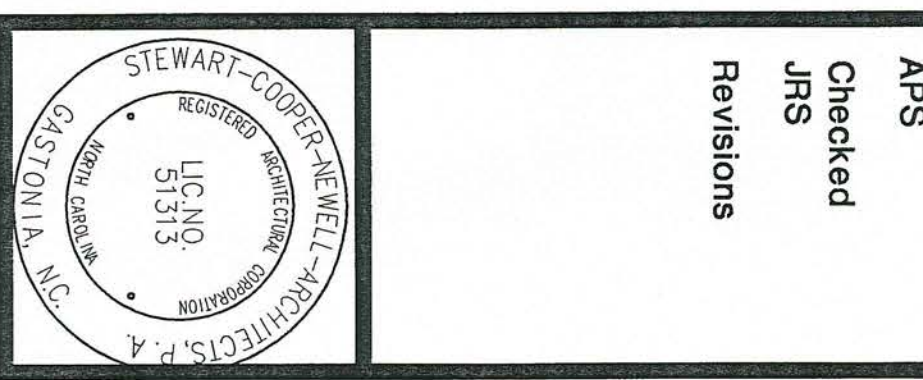
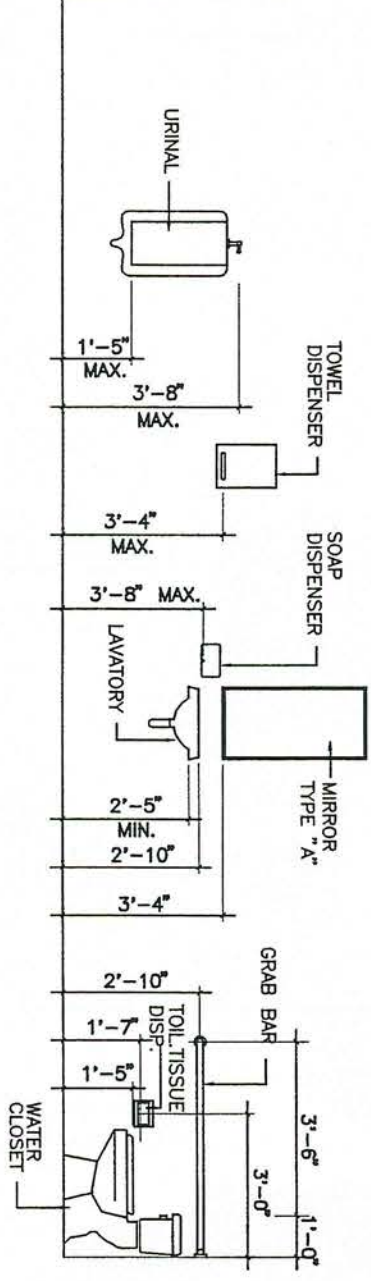
4.20 TLT. ACCESS. MTG. HEIGHTS  
NTS



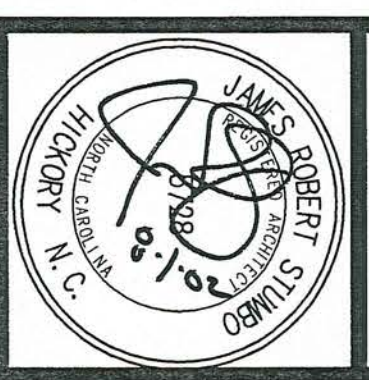
4.30 TLT. ACCESS. MTG. HEIGHTS  
NTS



4.30 TLT. ACCESS. MTG. HEIGHTS  
FOR THE HANDICAPPED  
ALL HTGS. TO COMPLY W/  
LOCAL CODES & ADA

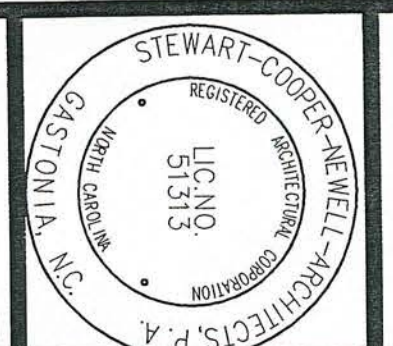


**Stewart-Cooper-Newell-Architects**  
 Planning Architecture Interiors  
 2016 sumter st.  
 suite 202  
 columbia, sc 29201  
 phone: 803.765.9011  
 fax: 803.765.2011  
 www.scn-architects.com

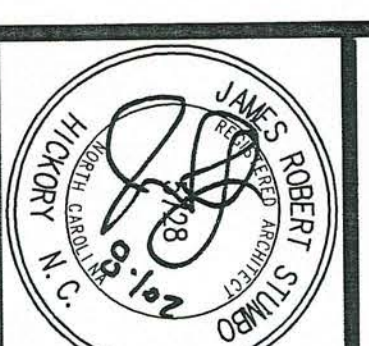


RENOVATIONS AND ADDITIONS FOR THE  
**NEW PUBLIC SAFETY BUILDING**  
 Pine Knoll Shores, North Carolina  
**ENLARGED TOILET PLANS**

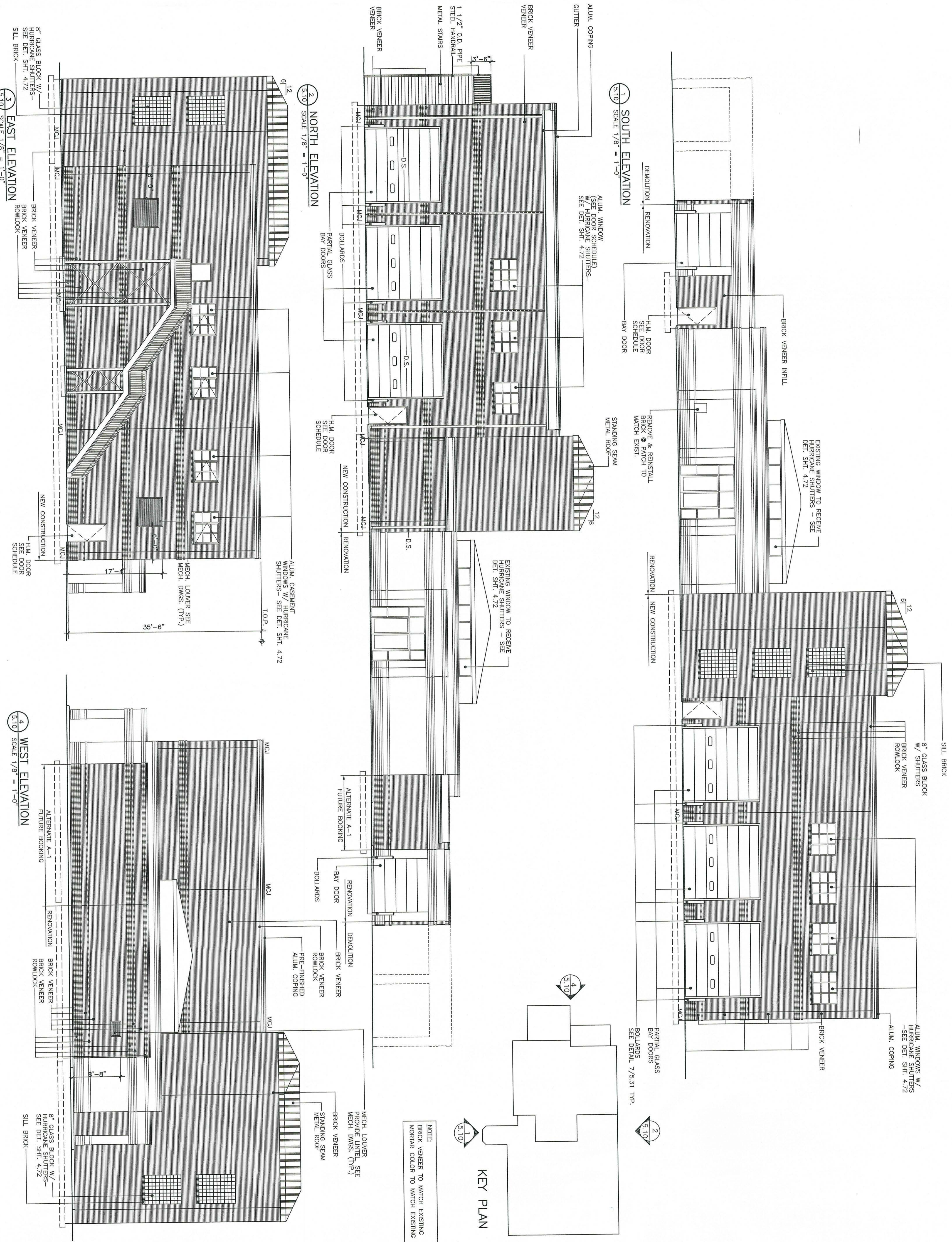




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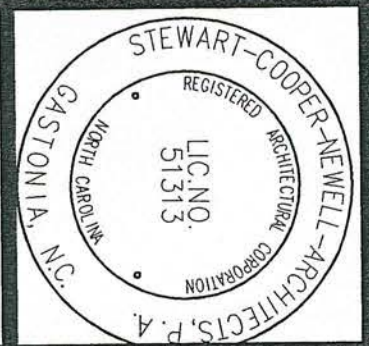
**RENOVATIONS AND ADDITIONS FOR THE NEW PUBLIC SAFETY BUILDING**  
 Pine Knoll Shores, North Carolina



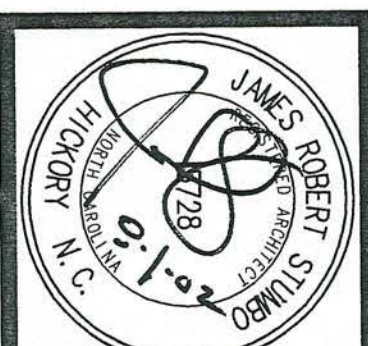
NOTE:  
 BRICK VENEER TO MATCH EXISTING  
 MORTAR COLOR TO MATCH EXISTING

ELEVATIONS





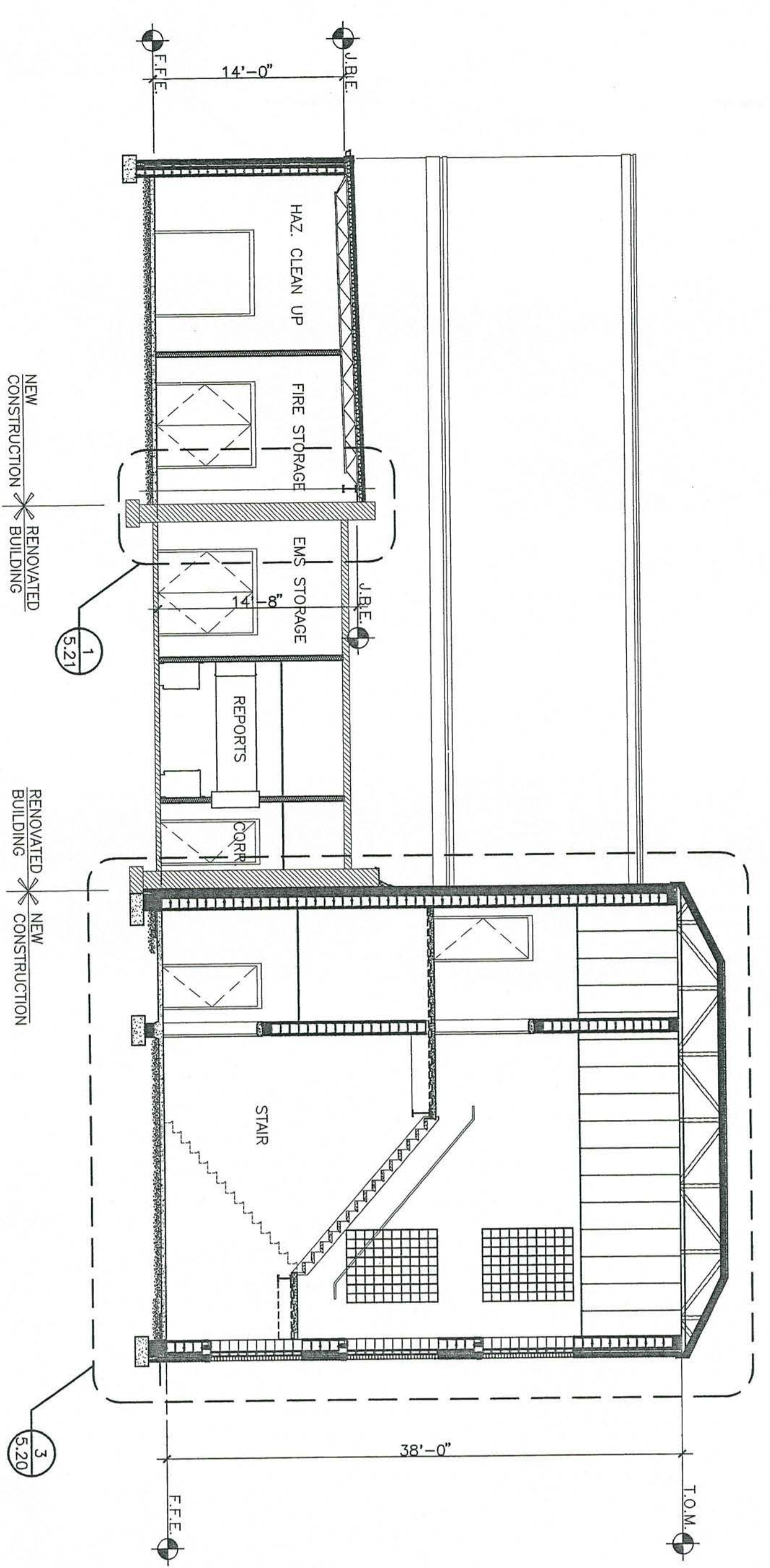
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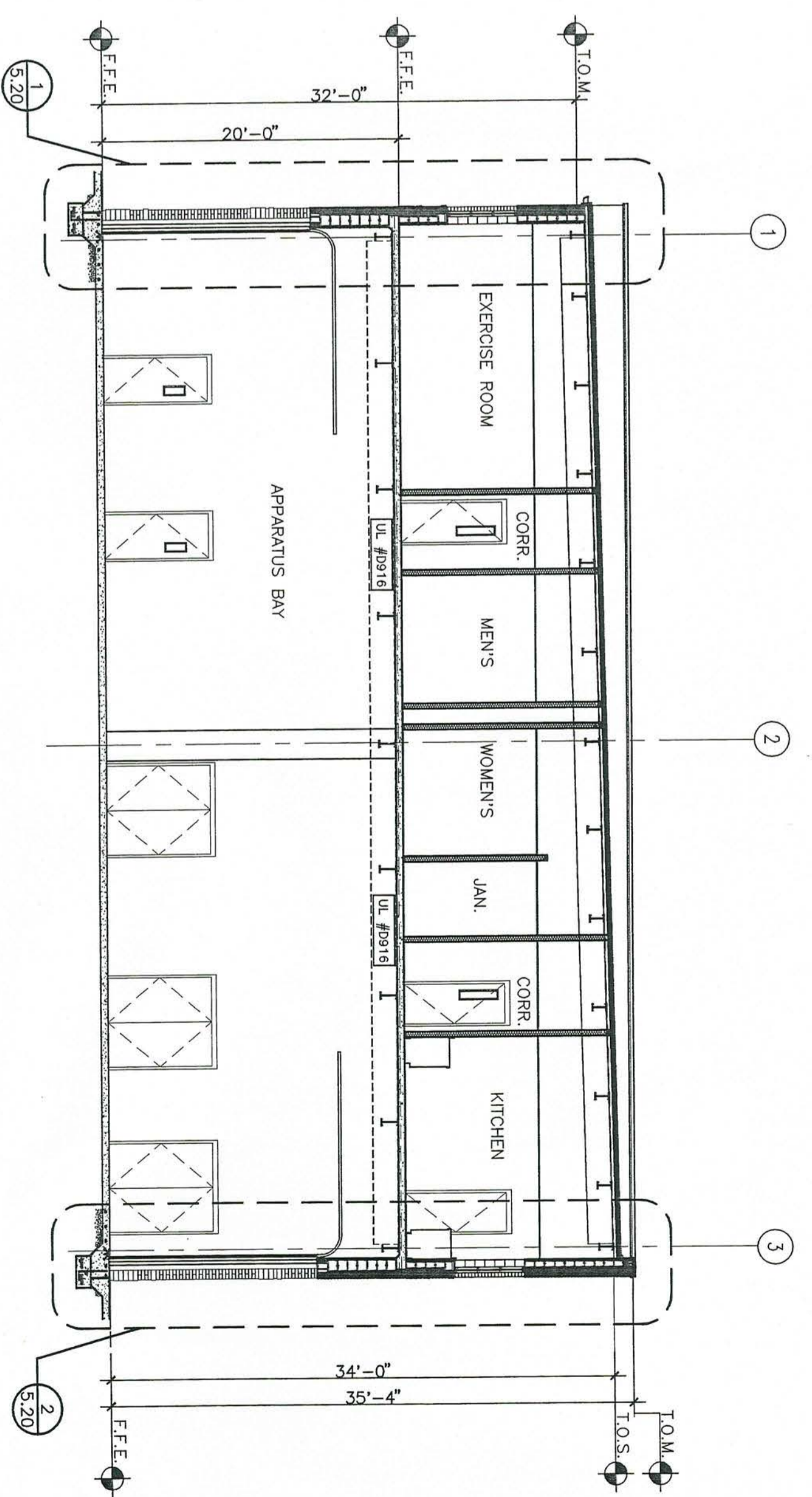
**RENOVATIONS AND ADDITIONS FOR THE  
NEW PUBLIC SAFETY BUILDING**  
Pine Knoll Shores, North Carolina

**BUILDING SECTIONS**

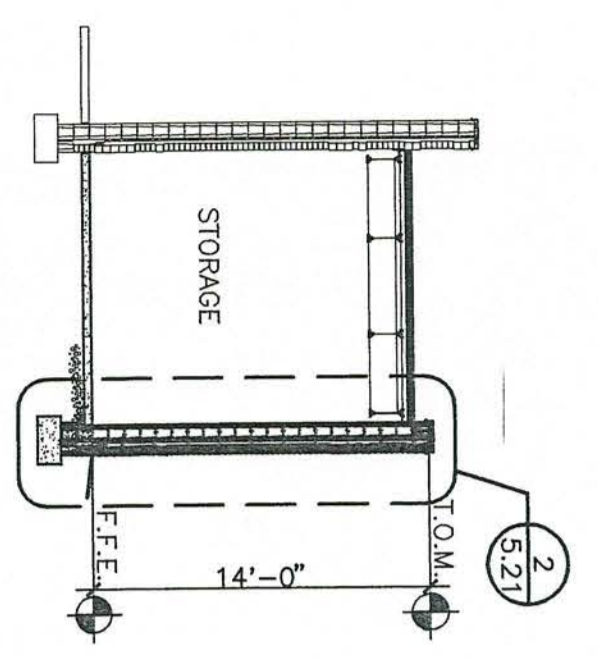
sheet  
**5.11**



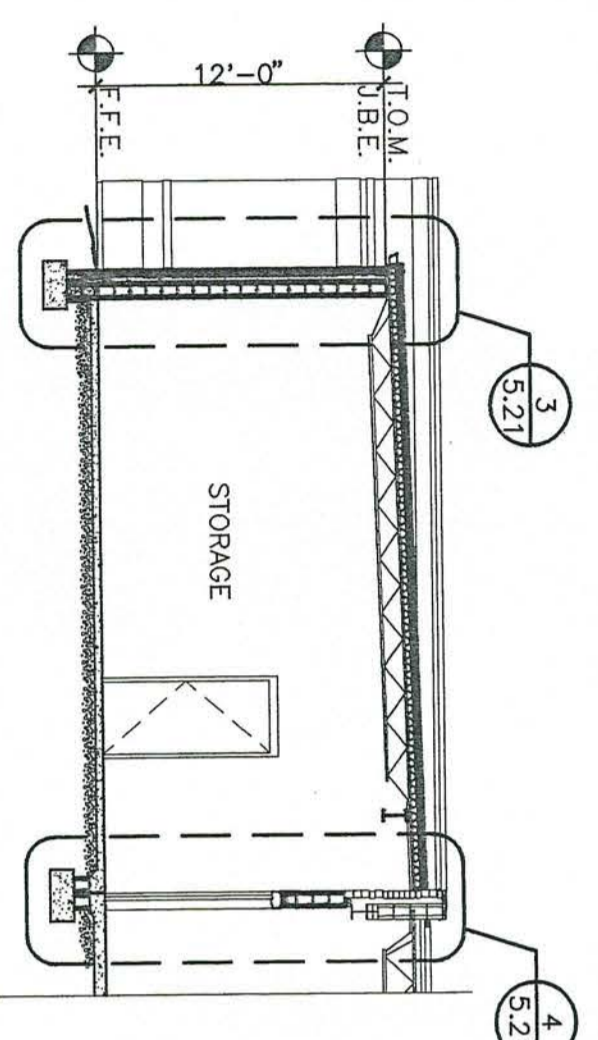
**1** BUILDING SECTION  
SCALE 1/8" = 1'-0"



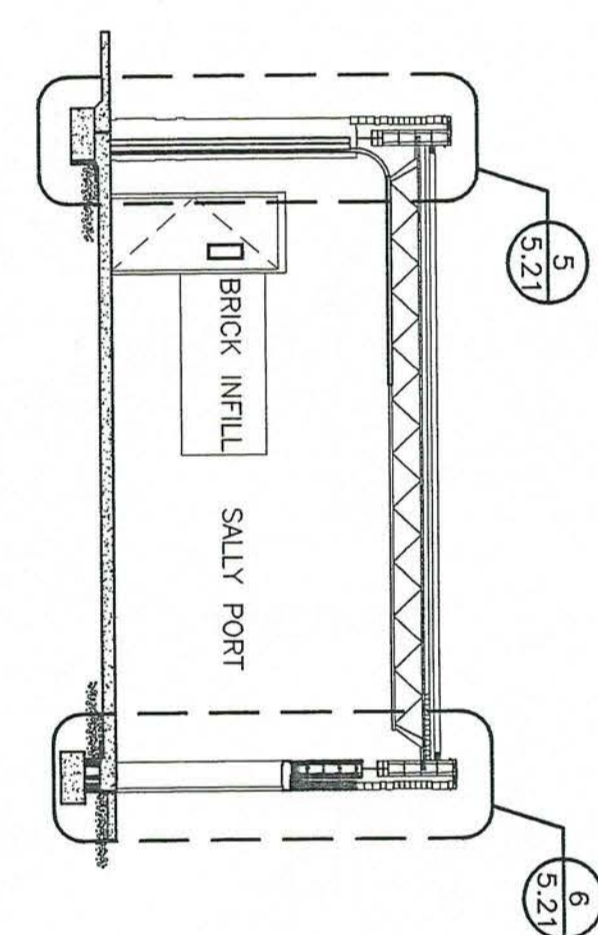
**2** BUILDING SECTION  
SCALE 1/8" = 1'-0"



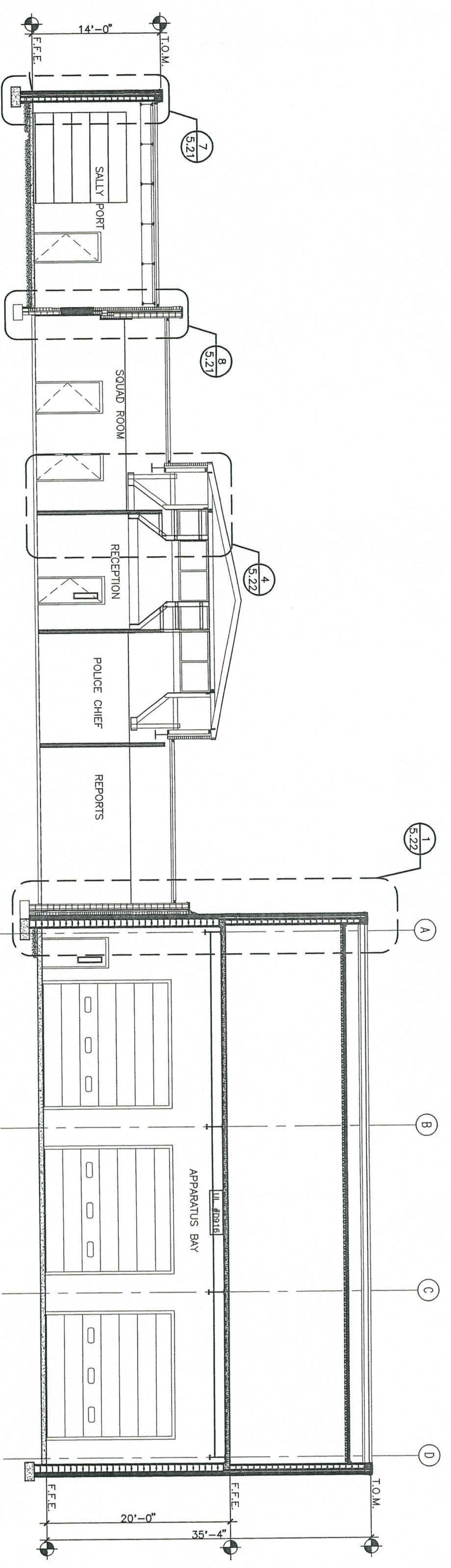
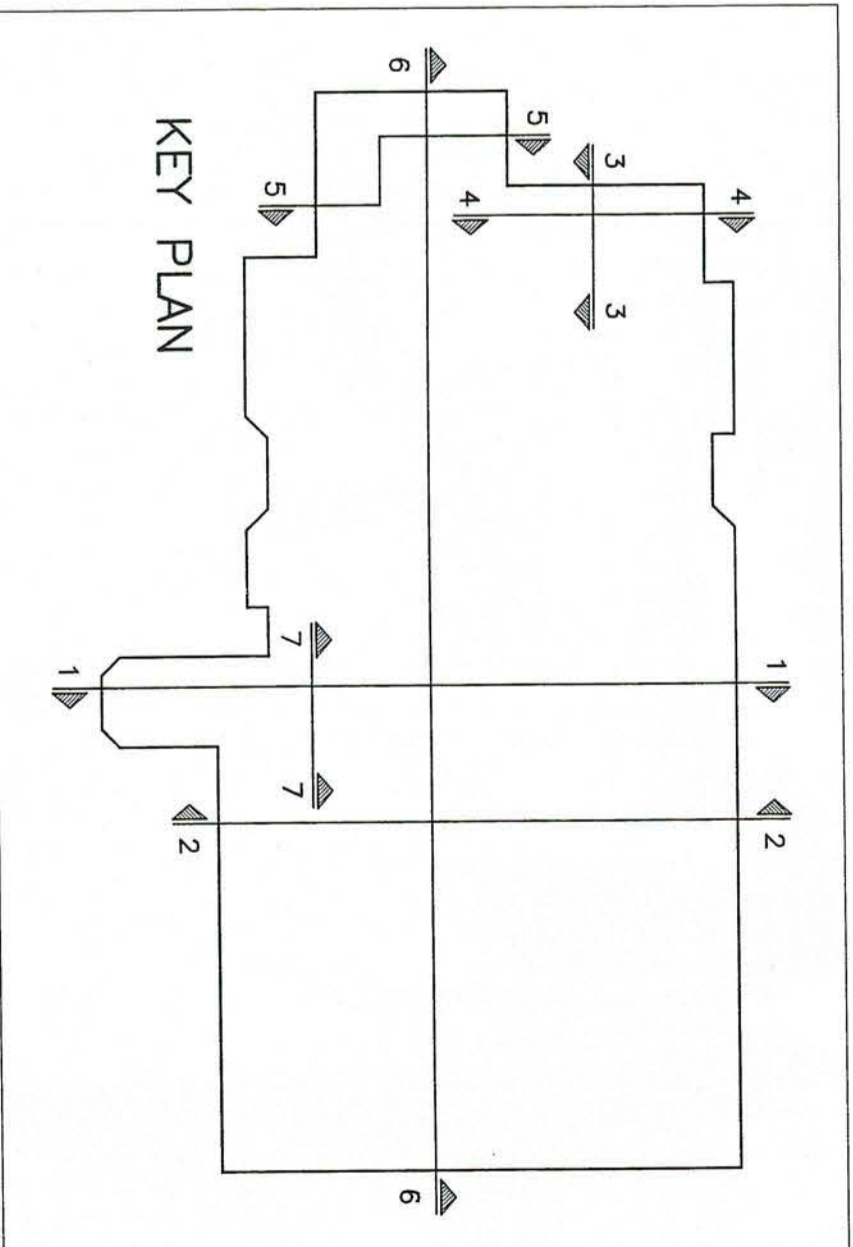
**3** BUILDING SECTION  
SCALE 1/8" = 1'-0"



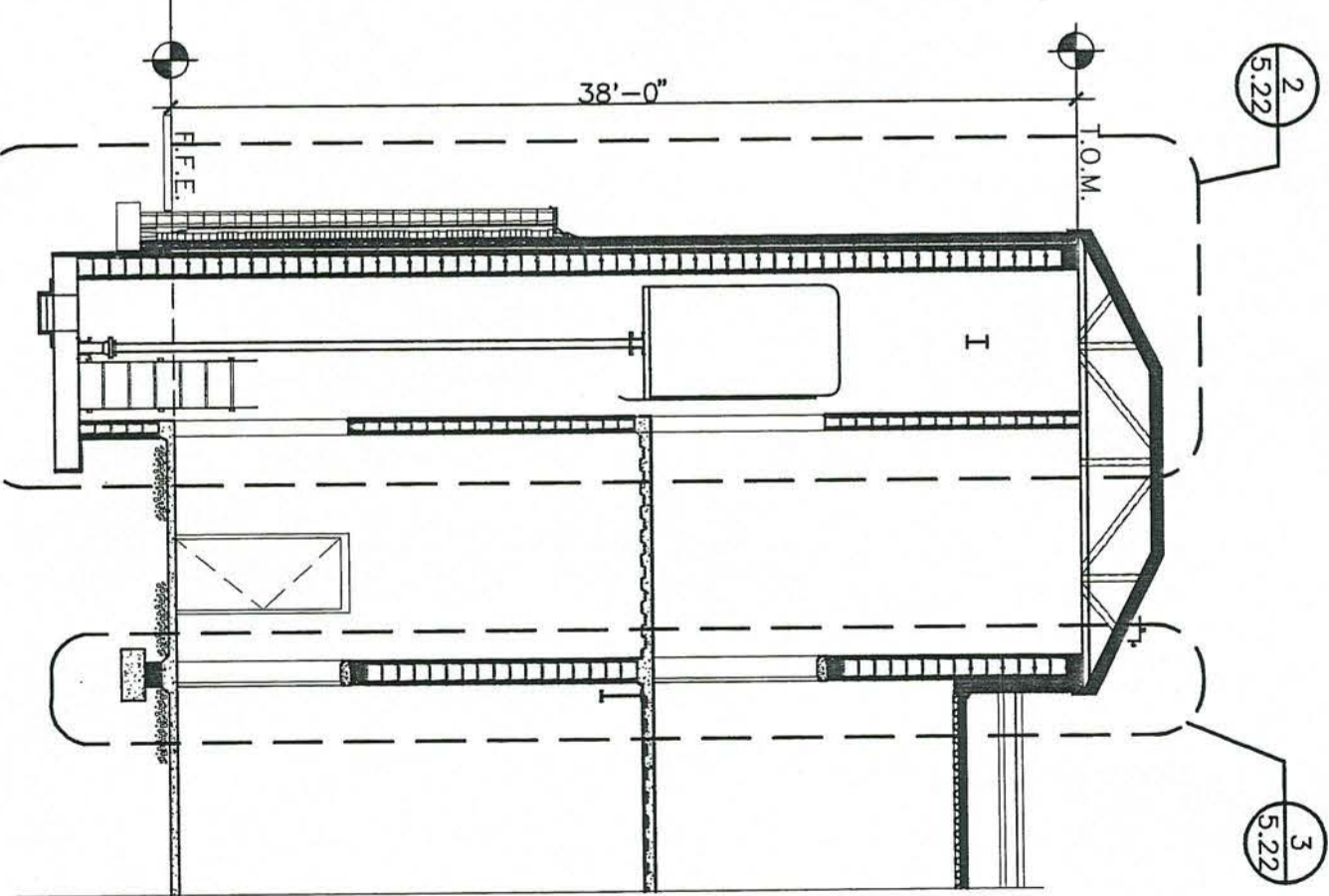
**4** BUILDING SECTION  
SCALE 1/8" = 1'-0"



**5** BUILDING SECTION  
SCALE 1/8" = 1'-0"

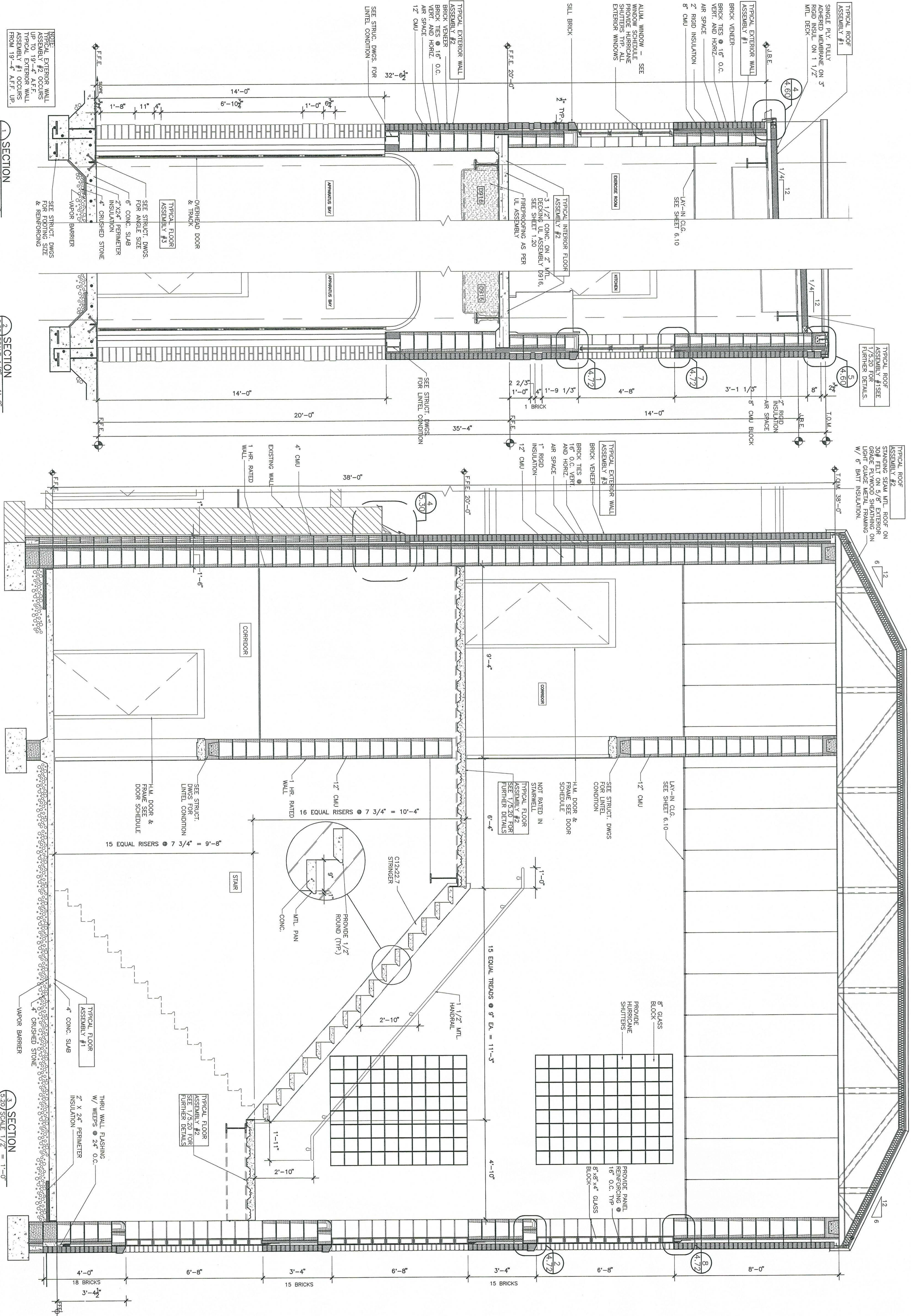


**6** BUILDING SECTION  
SCALE 1/8" = 1'-0"



**7** BUILDING SECTION  
SCALE 1/8" = 1'-0"

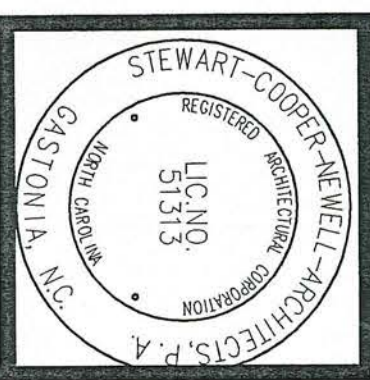
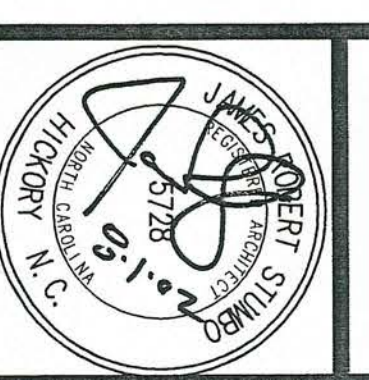




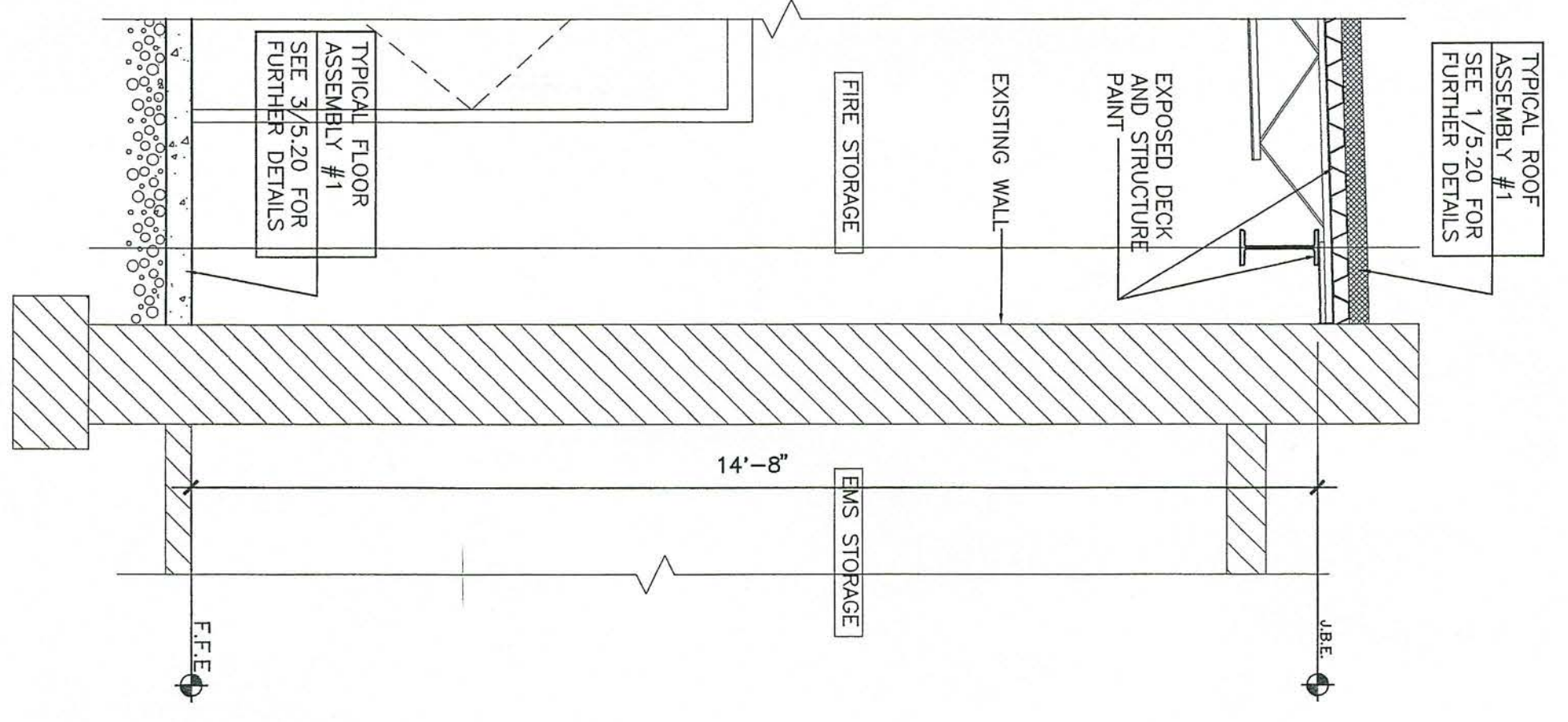
SECTION 1  
SCALE 1/2" = 1'-0"

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

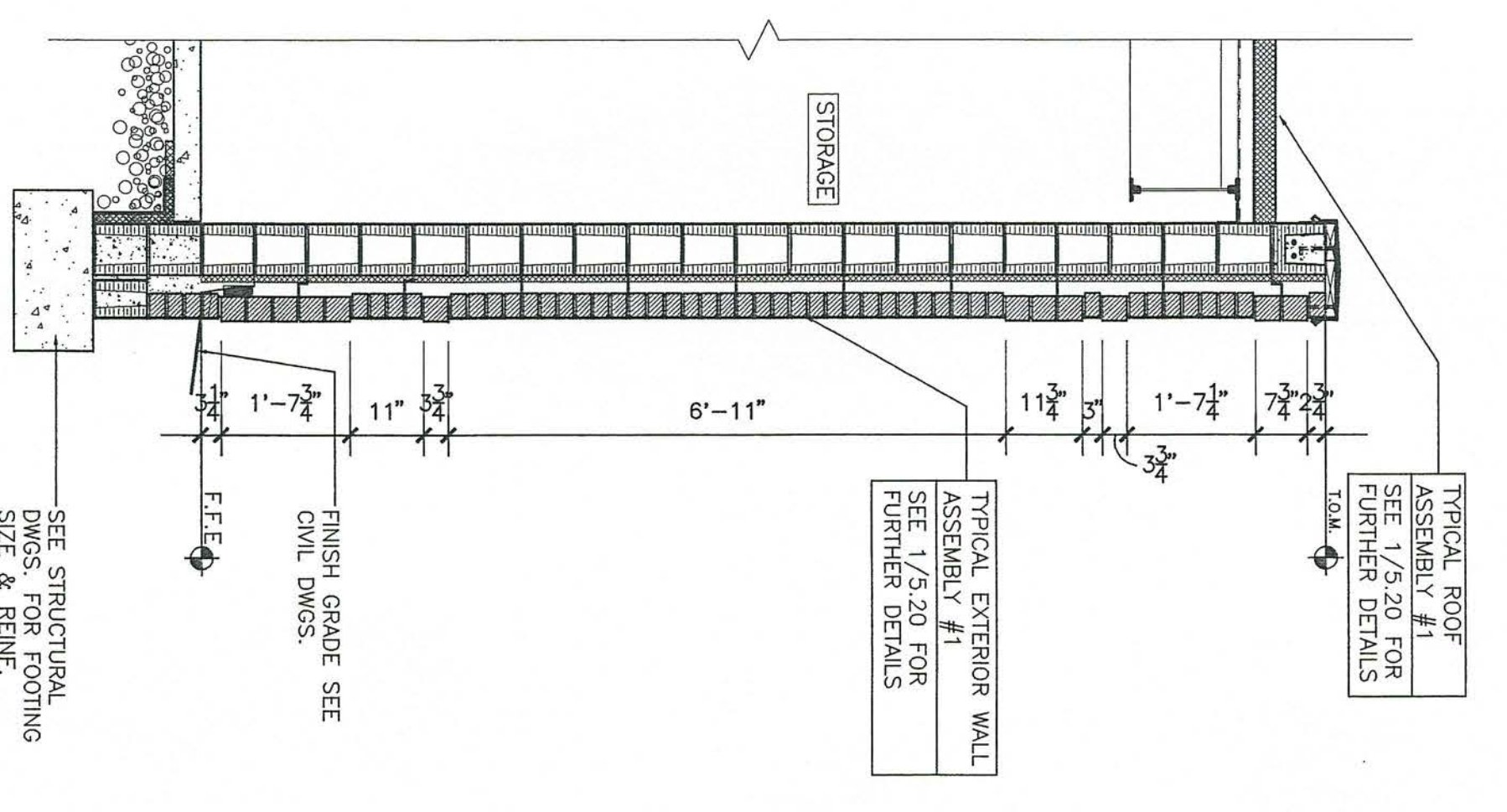
SECTION 3  
SCALE 1/2" = 1'-0"



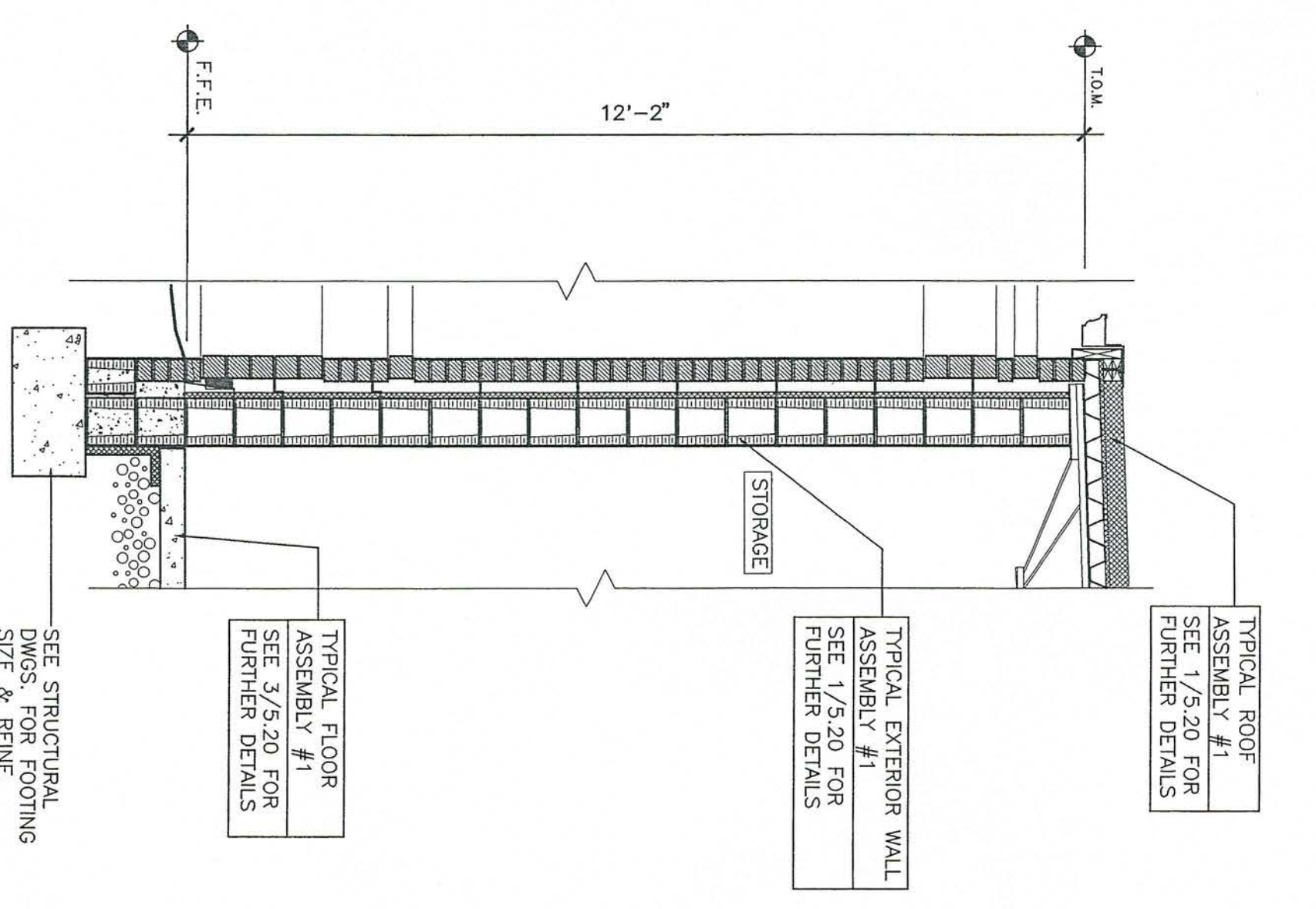




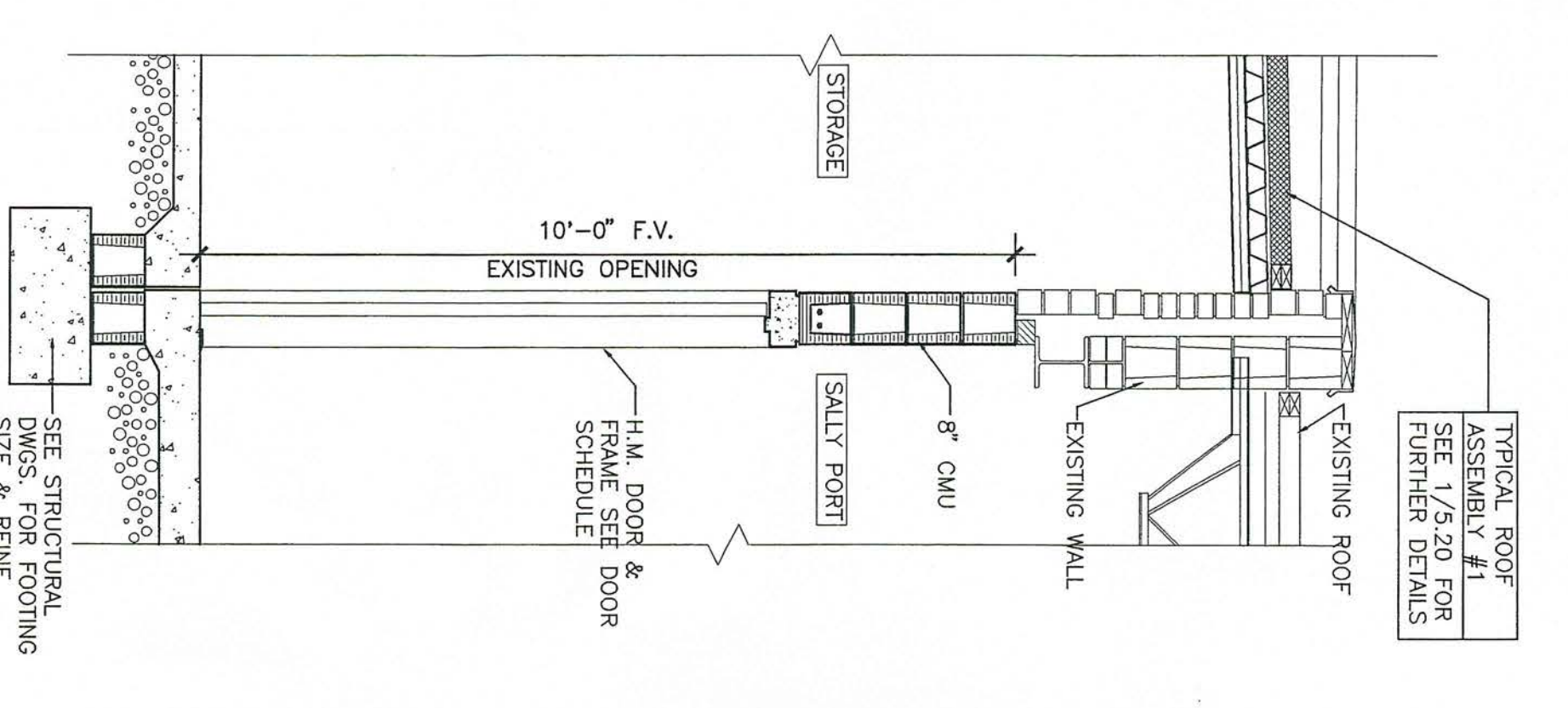
1 SECTION  
5.21 SCALE 1/2" = 1'-0"



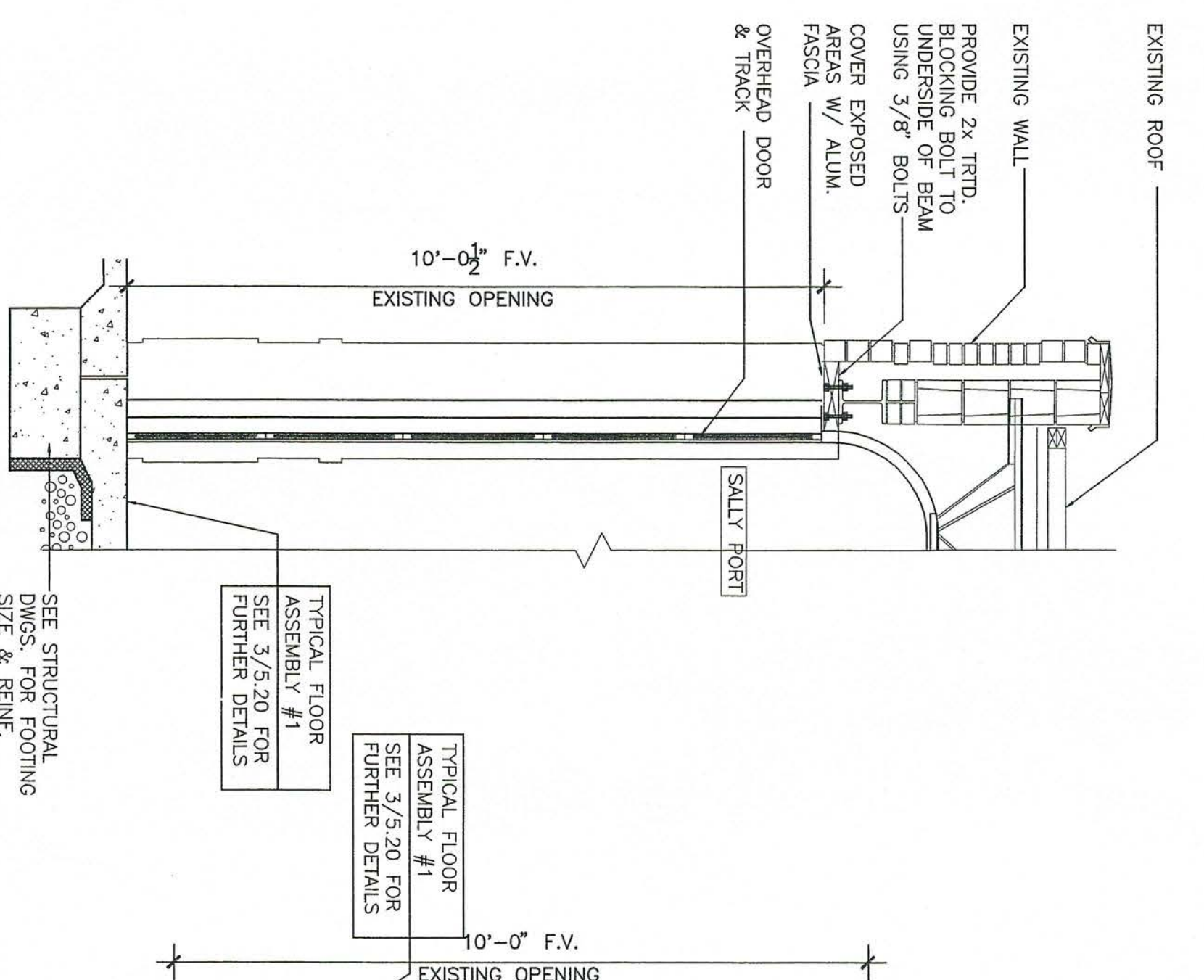
2 SECTION  
5.21 SCALE 1/2" = 1'-0"



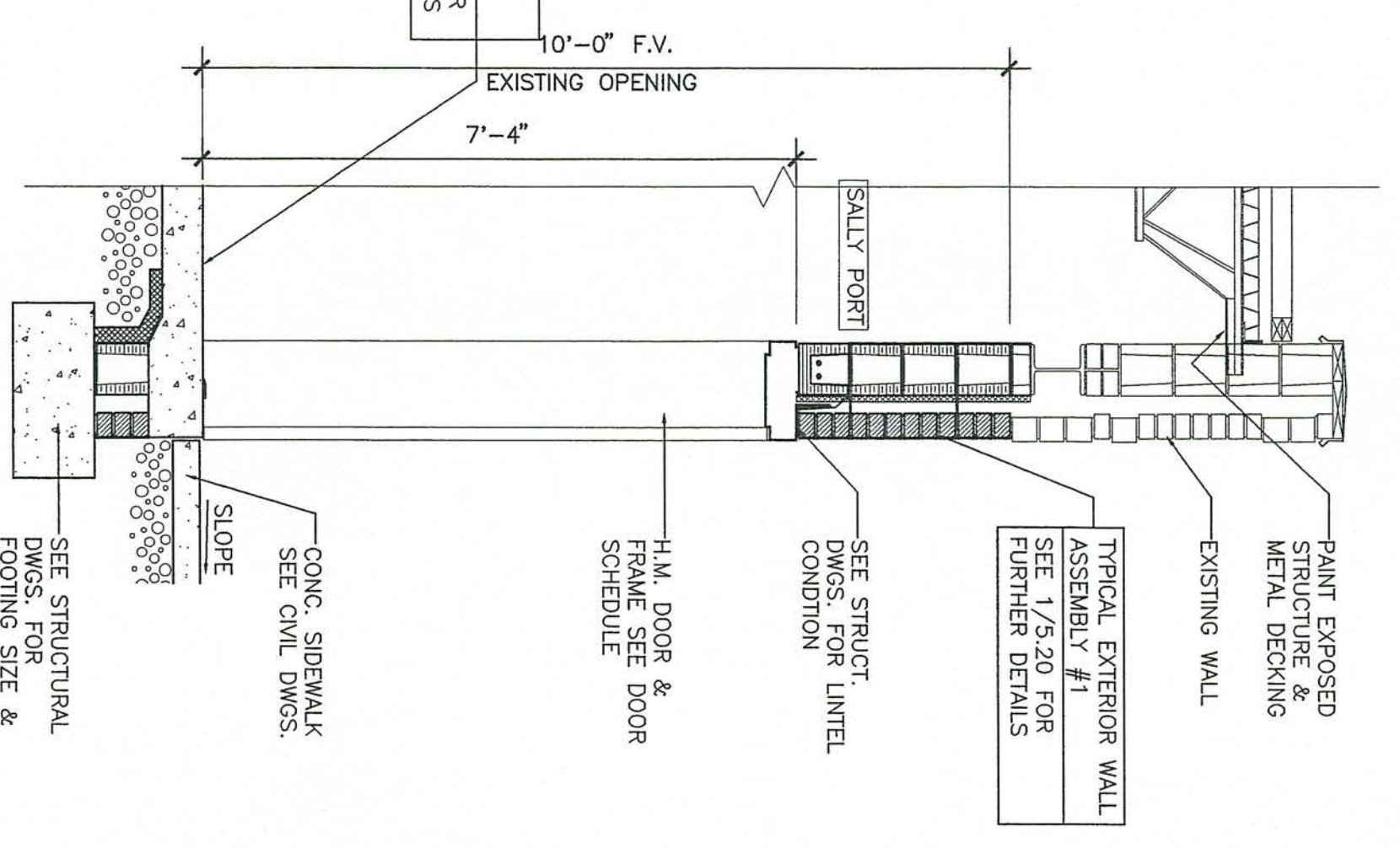
3 SECTION  
5.21 SCALE 1/2" = 1'-0"



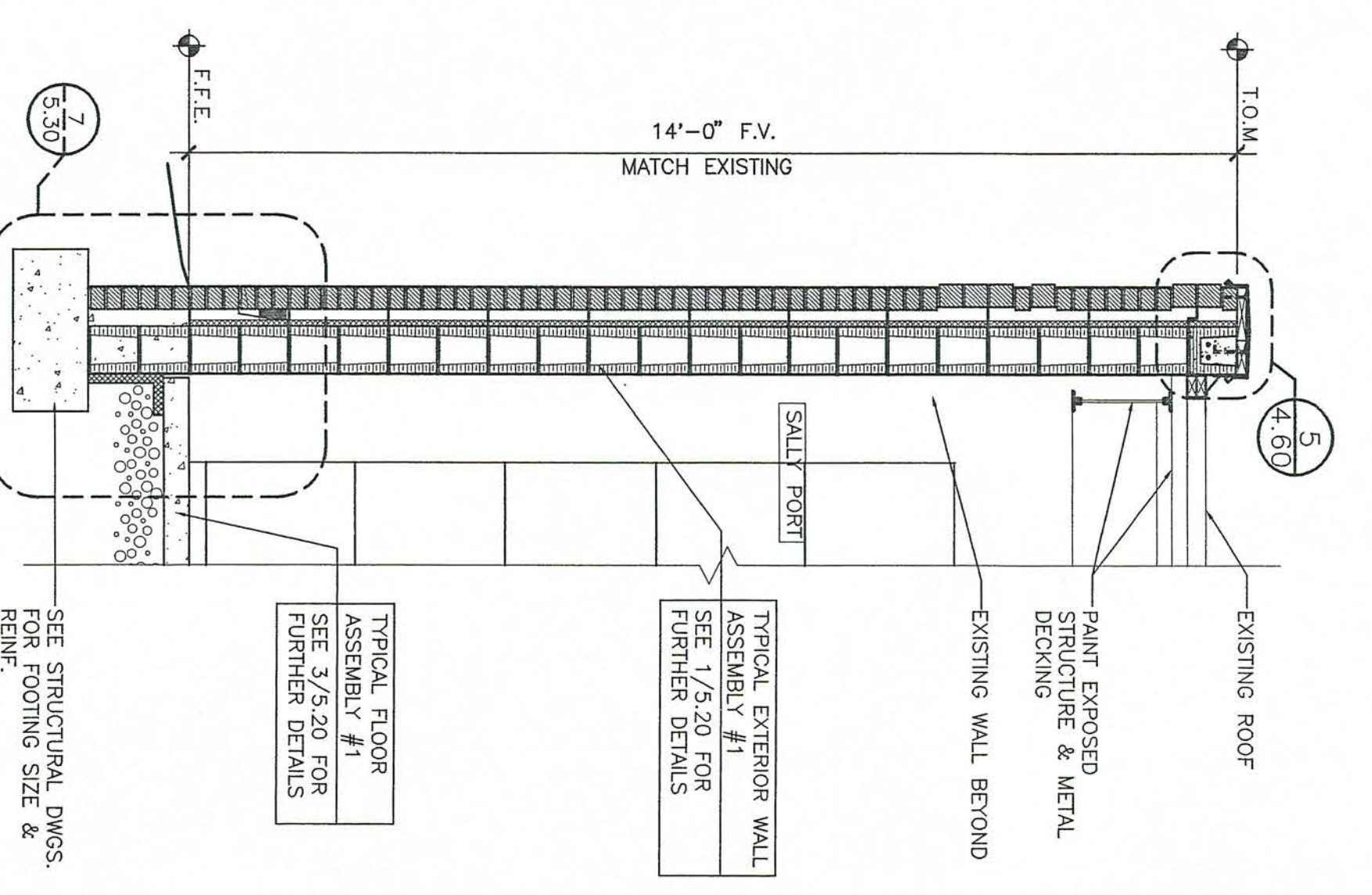
4 SECTION  
5.21 SCALE 1/2" = 1'-0"



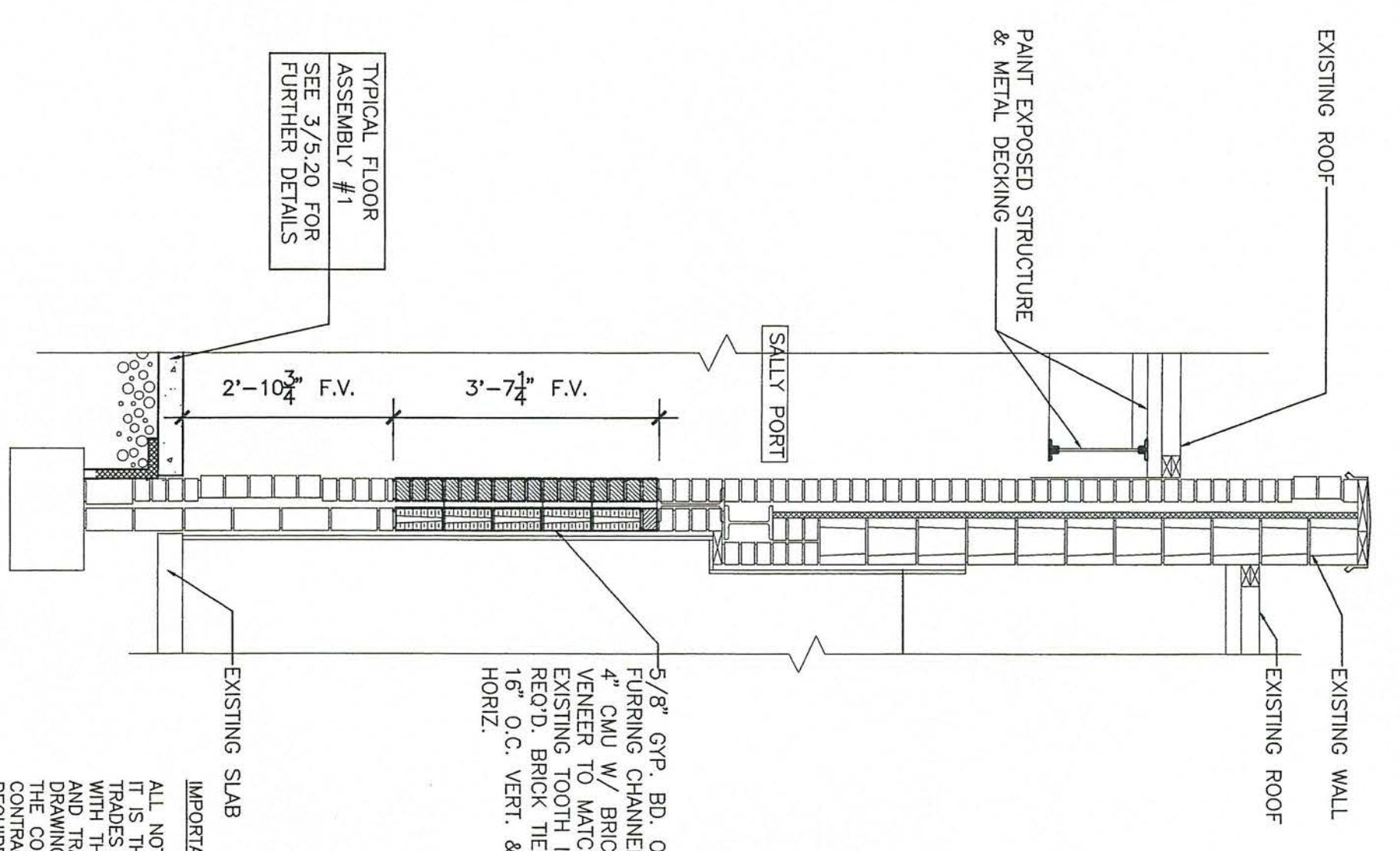
5 SECTION  
5.21 SCALE 1/2" = 1'-0"



6 SECTION  
5.21 SCALE 1/2" = 1'-0"



7 SECTION  
5.21 SCALE 1/2" = 1'-0"



8 SECTION  
5.21 SCALE 1/2" = 1'-0"

**IMPORTANT NOTE**  
ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AND TRADES TO COORDINATE THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHER CONTRACTORS. DRAWINGS, GENERAL REQUIREMENTS AND ALL ITEMS OF THE CONTRACT DOCUMENTS ARE EQUALLY BINDING ON ALL CONTRACTORS AND TRADES. EACH CONTRACTOR IS TO ASSURE THAT ALL WORK IS PROPERLY COORDINATED AND TIED TO THE PROJECT DOCUMENTS FOR HIS EMPLOYEES USE ON THE PROJECT AND TO ASSURE THAT ALL WORK IS PROPERLY COORDINATED AND TIED TO THE PROJECT DOCUMENTS FOR HIS EMPLOYEES USE ON THE PROJECT AND TRADES.

<b>RENOVATIONS AND ADDITIONS FOR THE NEW PUBLIC SAFETY BUILDING</b> Pine Knoll Shores, North Carolina <b>SECTIONS</b> sheet <b>5.21</b>			<b>Stewart-Cooper-Newell-Architects</b> Planning Architecture Interiors 2016 sumter st. suite 202 columbia, sc 29201 phone: 803.765.9011 fax: 803.765.2011 www.scn-architects.com				Date 8-01-02	Project No. <b>999</b>
			Drawn AMF	Checked JRS	Revisions			



TYPICAL ROOF ASSEMBLY #1  
SEE 1/5.20 FOR FURTHER DETAILS

TYPICAL EXTERIOR WALL ASSEMBLY #1  
BRICK VENEER  
BRICK TIES @ 16" O.C. VERT. AND HORIZ.  
AIR SPACE  
2" RIGID INSULATION  
8" CMU

TYPICAL EXTERIOR WALL ASSEMBLY #2  
BRICK VENEER  
BRICK TIES @ 16" O.C. VERT. AND HORIZ.  
AIR SPACE  
12" CMU

EXISTING WALL  
EXISTING F.V.  
16'-0"

2 HR. RATED WALL  
20'-0"

SEE STRUCTURAL DWGS. FOR FOOTING SIZE & REINF.

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

TYPICAL EXTERIOR WALL ASSEMBLY #2  
BRICK VENEER  
BRICK TIES @ 16" O.C. VERT. AND HORIZ.  
AIR SPACE  
12" CMU  
EXIST. PARAPET

EXIST. ROOF  
HOST BEAM  
13'-4"

NOT RATED IN STAIR  
TYPICAL INTERIOR FLOOR ASSEMBLY  
SEE 1/5.20 FOR FURTHER DETAILS

IF ALT. A-2 IS TAKEN, GC IS TO FILL VOID W/ 8" CMU. CMU PANEL SHOULD BE INSTALLED W/ WEAR ELEV. EQUIPMENT IS INSTALLED.

3x3x1/4" CLIP ANGLES WELD TO JOIST LESS (2) 1/2" & BOLTS @ 12" O.C.  
1/2"x3" PLATE STEEL LESS VERIFY LADDER LOCATION W/ ELEV. EQUIP. SUPPLIER

SEE STRUCTURAL DWGS. FOR FOOTING SIZE & REINF.

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

TYPICAL ROOF ASSEMBLY #2  
SEE 1/5.20 FOR FURTHER DETAILS

TYPICAL EXTERIOR WALL ASSEMBLY #3  
SEE 3/5.20 FOR FURTHER DETAILS

TYPICAL ROOF ASSEMBLY #1  
SEE 1/5.20 FOR FURTHER DETAILS

2 HOUR RATED WALL  
12" CMU

SEE STRUCT. DWGS. FOR LINTEL CONDITION  
H.M. DOOR & FRAME FOR DOOR SCHEDULE

SEE STRUCTURAL DWGS. FOR FOOTING SIZE & REINF.

3 SECTION  
SCALE 1/2" = 1'-0"

TYPICAL ROOF ASSEMBLY #2  
SEE 1/5.20 FOR FURTHER DETAILS

5/8" GYP TO 1'-0" ABOVE LAV- IN CEILING  
LAV- IN CEILING SEE SHEET, 6.10

BRACE AS SHOWN W/ 6" MTL STUDS @ 16" O.C.  
ENSURE EDGE OF NEW GYP. BD. LINES UP W/ MIDDLE OF WINDOW FRAME

EXIST. WINDOW  
EXIST. FLOOR

NEW 3 5/8" MTL STUD WALL W/ 5/8" BRACE TO UNDERSIDE OF EXISTING ROOF STRUCTURE AS REQ'D.

SEE STRUCTURAL DWGS. FOR FOOTING SIZE & REINF.

4 SECTION  
SCALE 1/2" = 1'-0"

TYPICAL ROOF ASSEMBLY #2  
SEE 1/5.20 FOR FURTHER DETAILS

2 HOUR RATED FLOOR  
TYPICAL INTERIOR FLOOR ASSEMBLY  
SEE 1/5.20 FOR FURTHER DETAILS

2 HOUR RATED WALL  
12" CMU

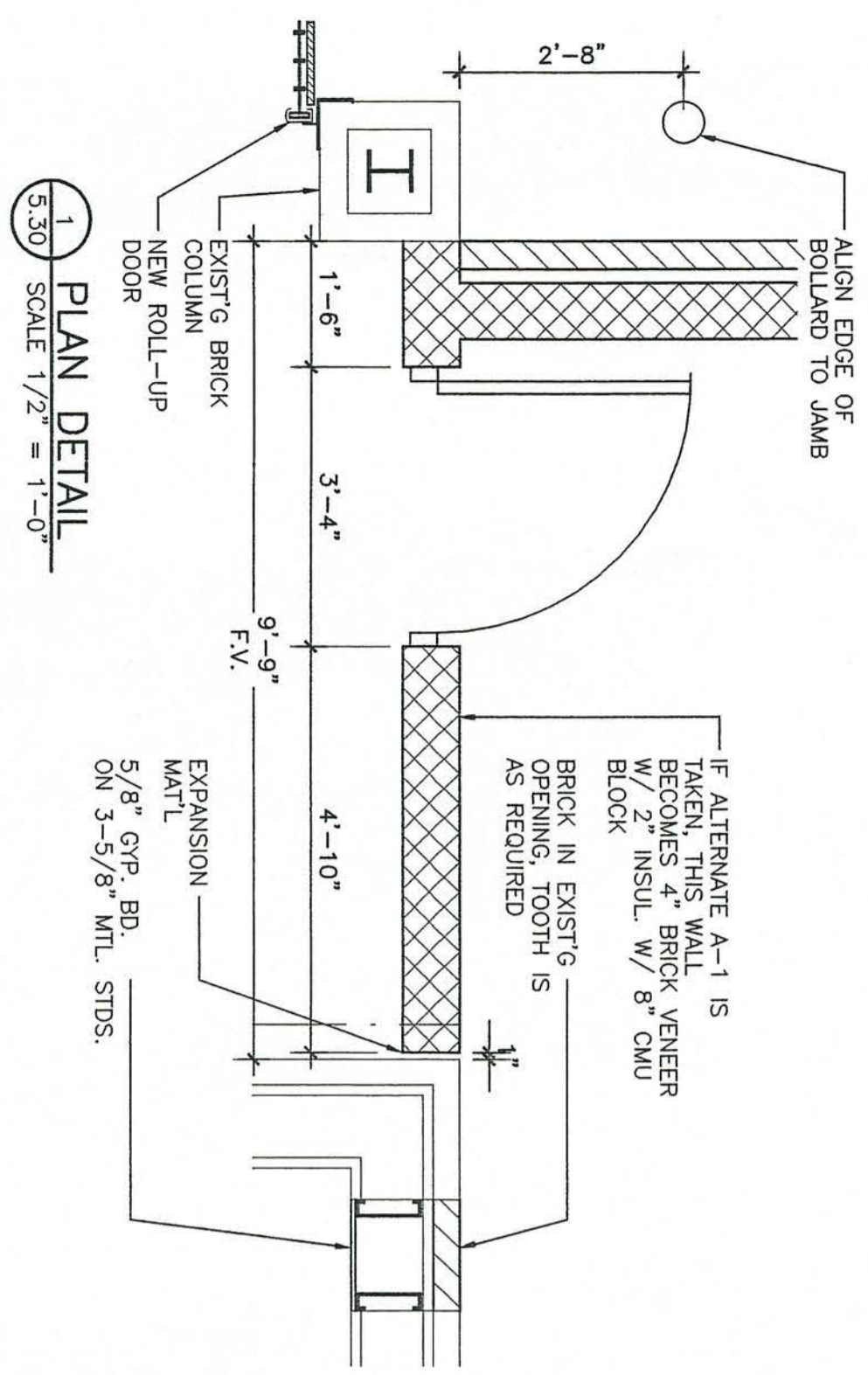
CONC. SLAB

SEE STRUCTURAL DWGS. FOR FOOTING SIZE & REINF.

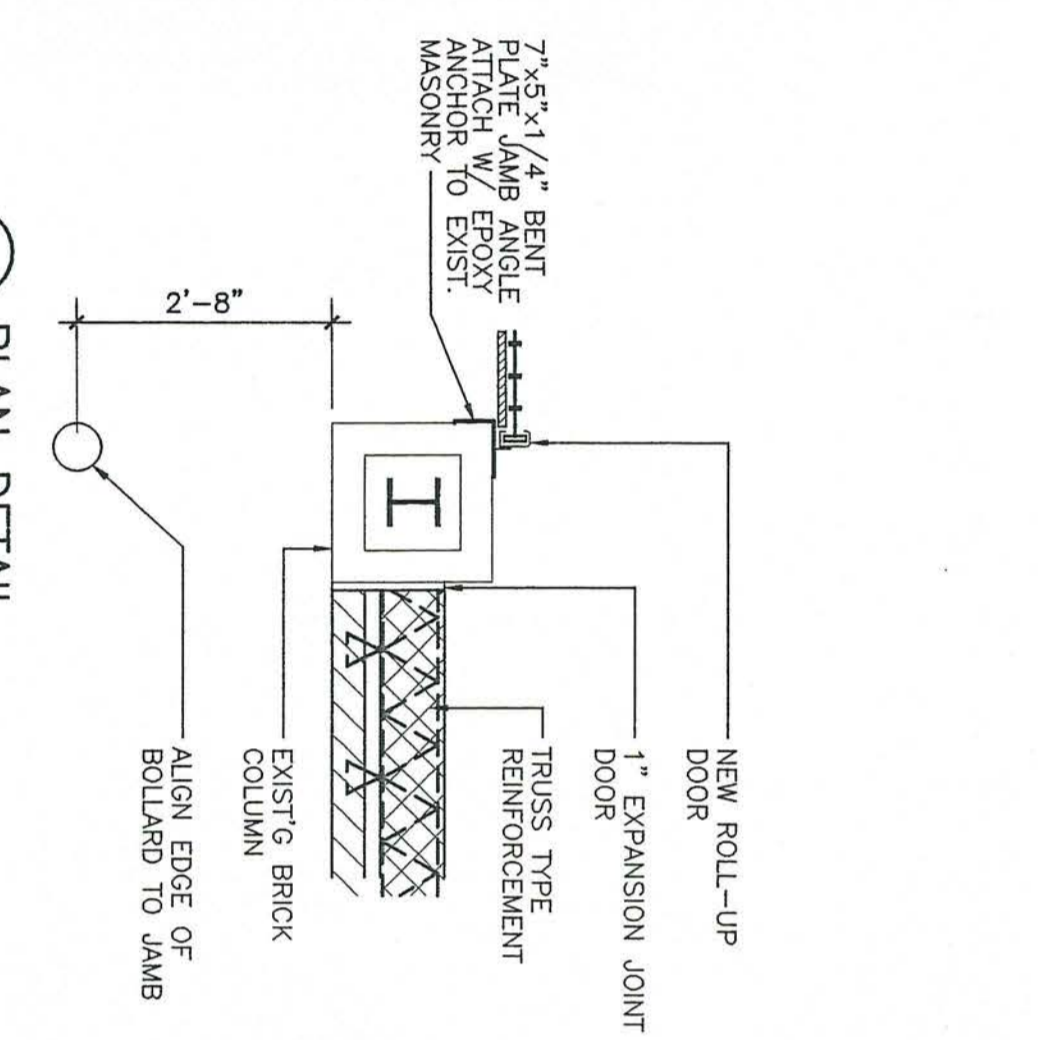
5 SECTION  
SCALE 1/2" = 1'-0"

Project No. <b>999</b>	Date 8-01-02	Drawn AMF Checked JRS Revisions	 STEWART-COOPER-NEWELL ARCHITECTS, P.A. LICENSED PROFESSIONAL ARCHITECTS LIC. NO. 51313 REGISTERED OFFICE 2016 SUMTER ST. SUITE 202 COLUMBIA, SC 29201 PHONE: 803.765.8011 FAX: 803.765.2011	 JAMES ROBERT STEWART HISTORY ARCHITECTS N.C.	 <b>Stewart-Cooper-Newell-Architects</b> Planning Architecture Interiors 719 east second ave. gastonia, nc 28054 phone: 704.865.6311 fax: 704.865.0046 www.scn-architects.com	RENOVATIONS AND ADDITIONS FOR THE <b>NEW PUBLIC SAFETY BUILDING</b> Pine Knoll Shores, North Carolina	sheet <b>5.22</b>
	SECTION <b>5.22</b>						

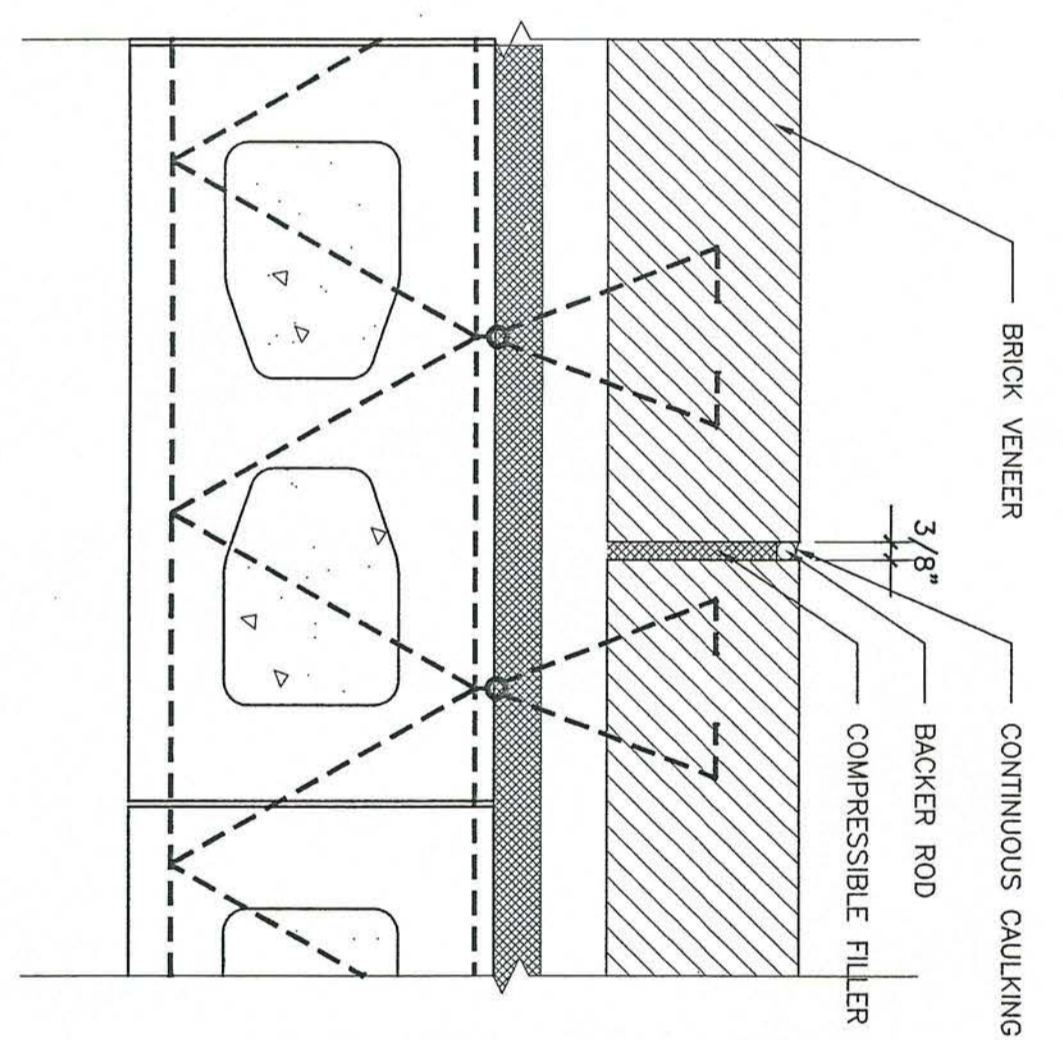




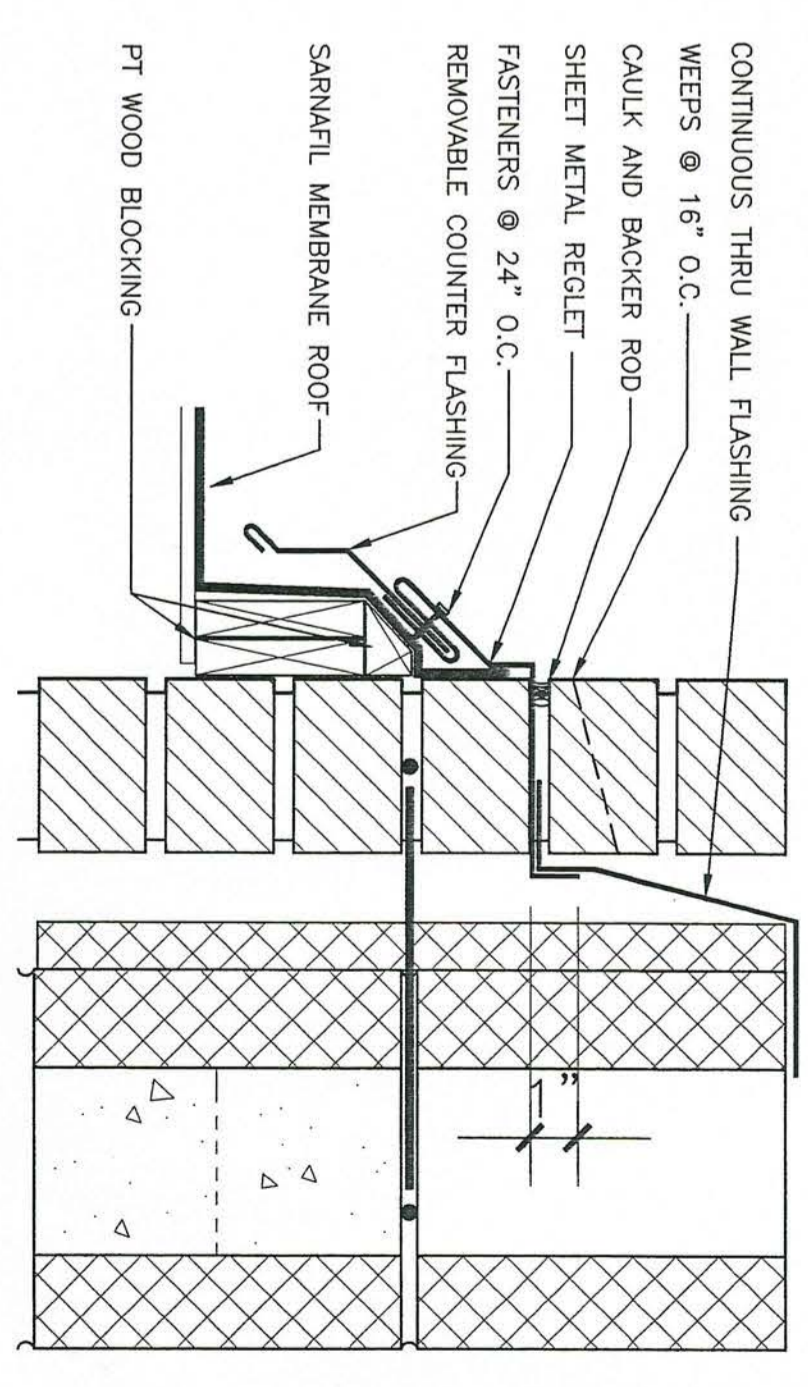
2 PLAN DETAIL  
SCALE 1/2" = 1'-0"



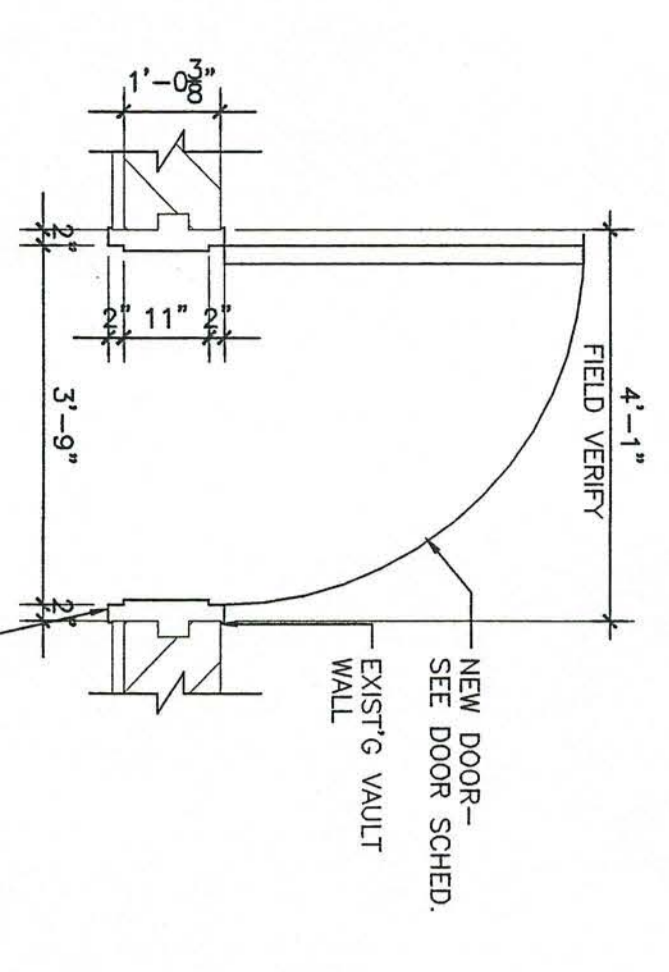
11 MASONRY CONTROL JOINT (MCJ)  
SCALE 3" = 1'-0"



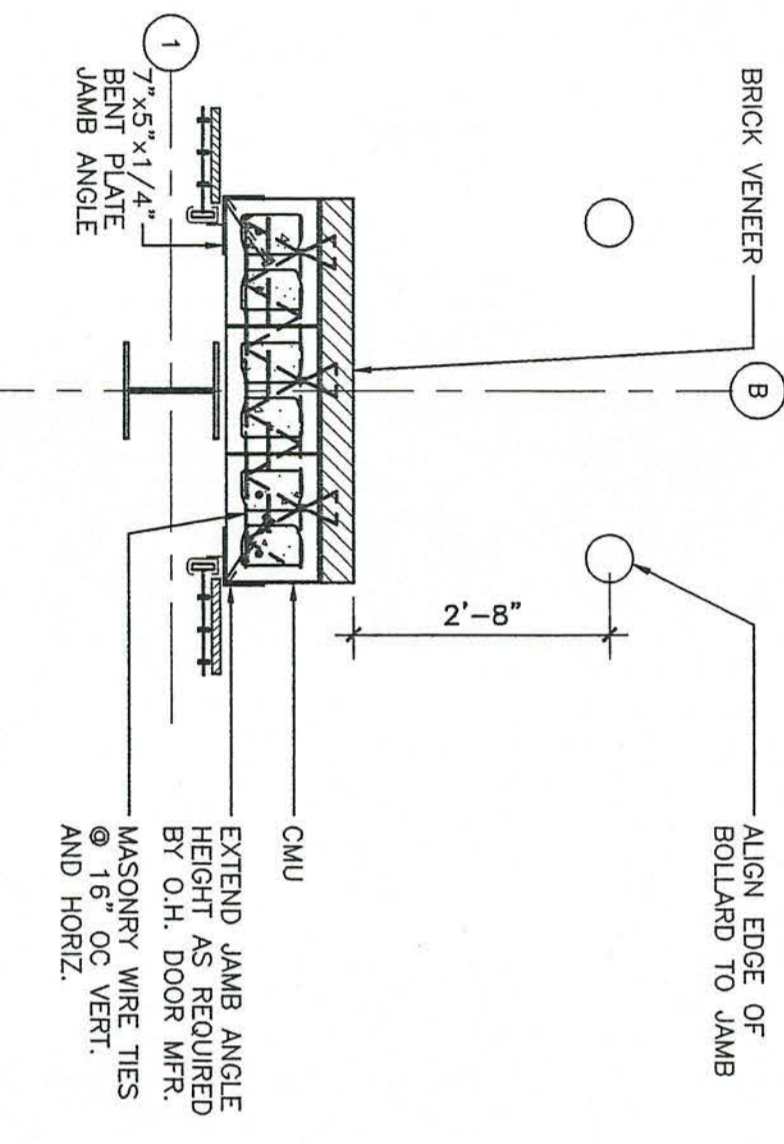
12 FLASHING DETAIL  
SCALE 3" = 1'-0"



3 PLAN DETAIL  
SCALE 1/2" = 1'-0"

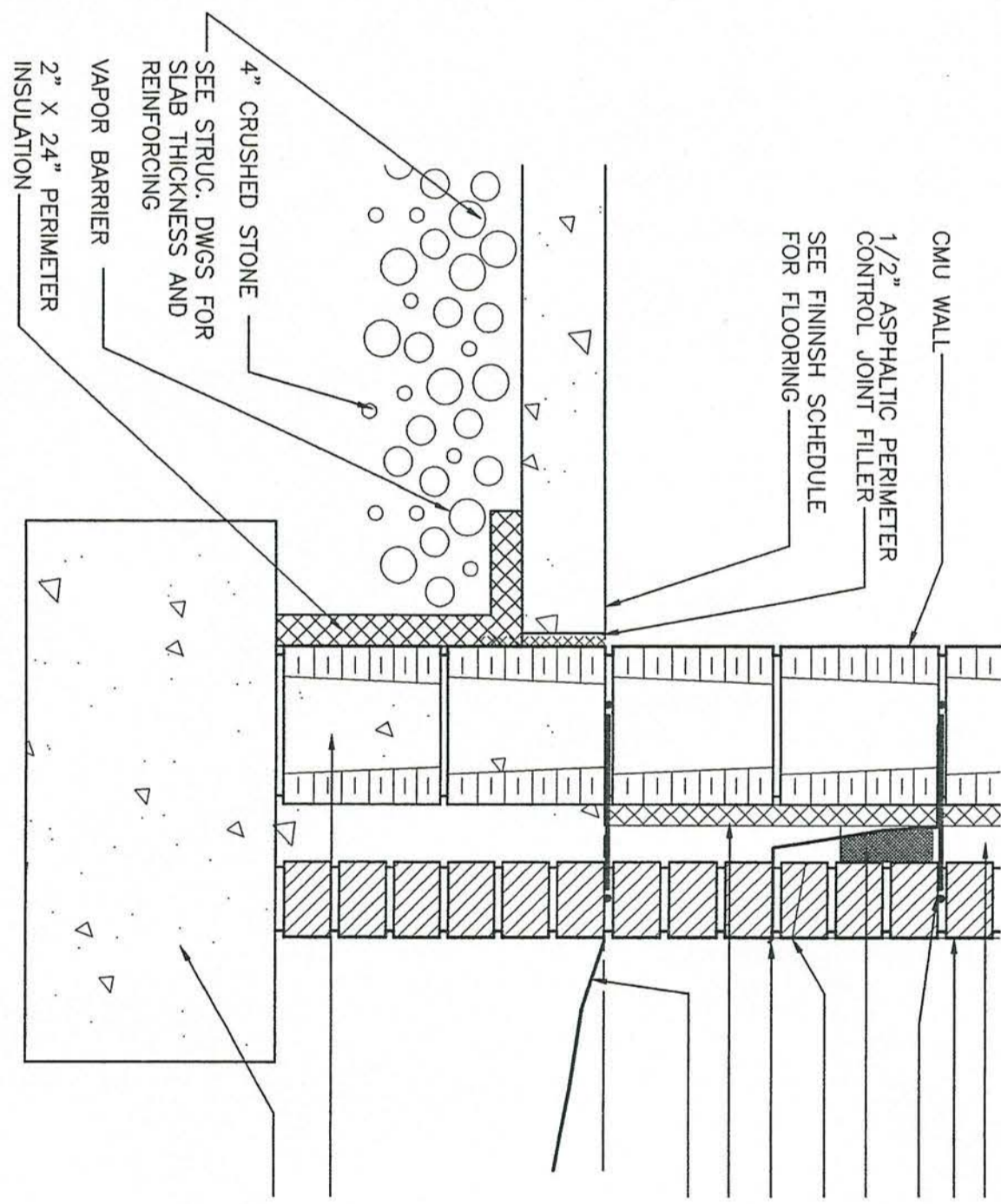


4 PLAN DETAIL  
SCALE 1/2" = 1'-0"

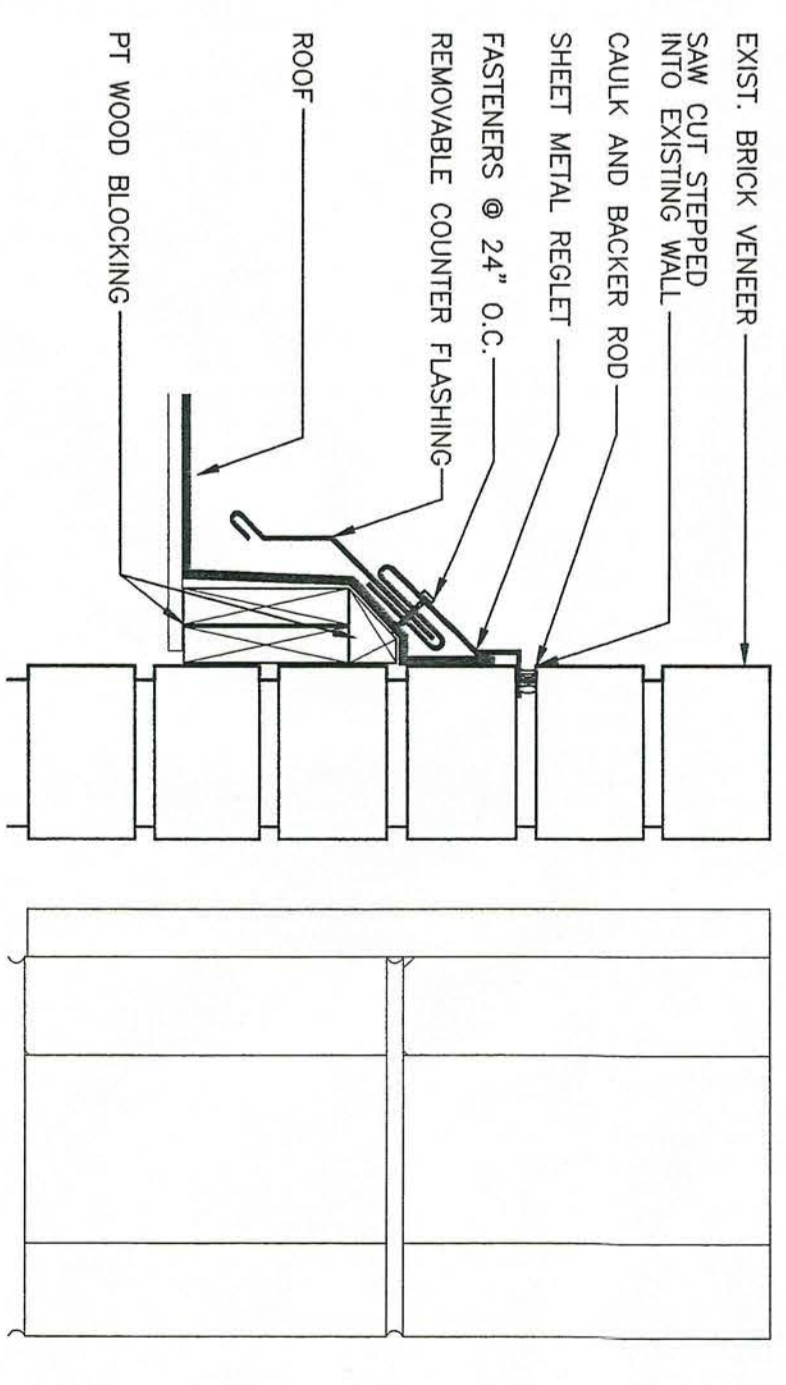


NOTES:  
1) FILL ALL CMU CELLS SOLID W/ GROUT FDN TO TOP OF WALL.  
2) SEE 11/3.70 FOR ADDITIONAL NOTES.

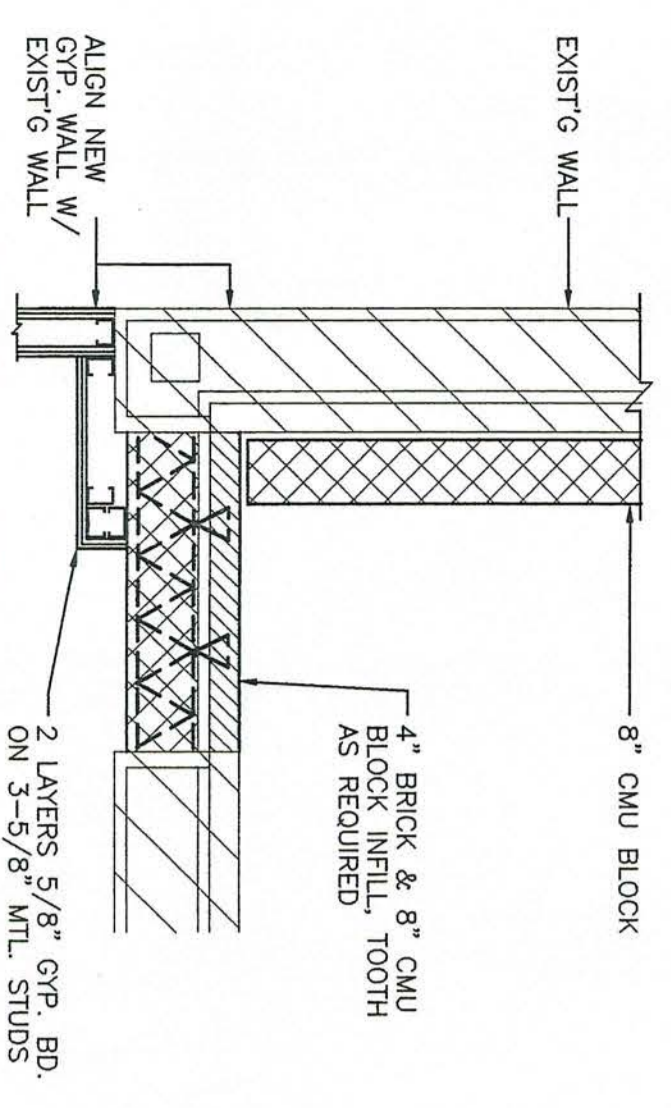
10 BASE OF WALL DETAIL  
SCALE 1 1/2" = 1'-0"



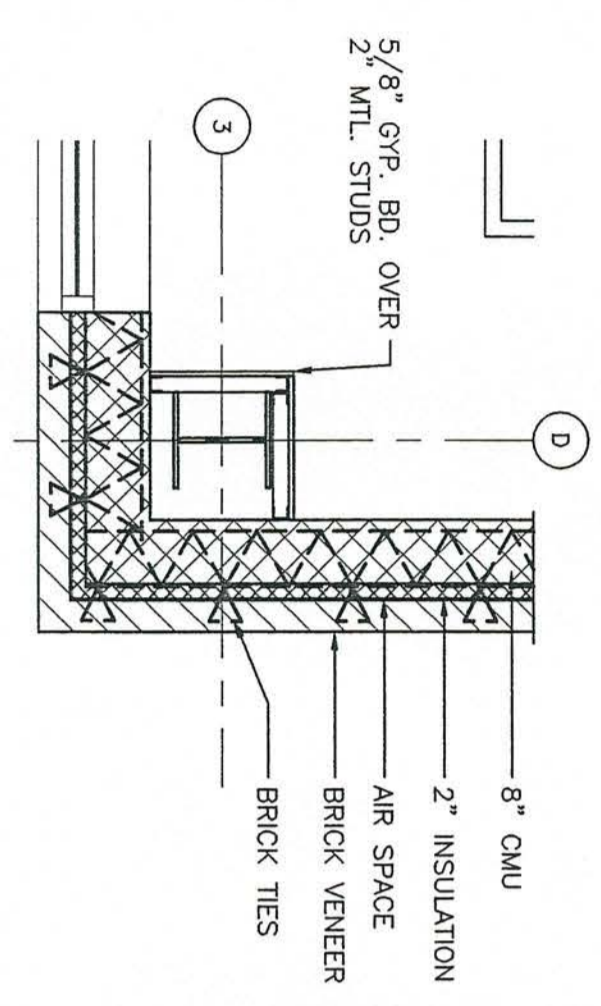
13 FLASHING DETAIL IN EXIST. WALL  
SCALE 3" = 1'-0"



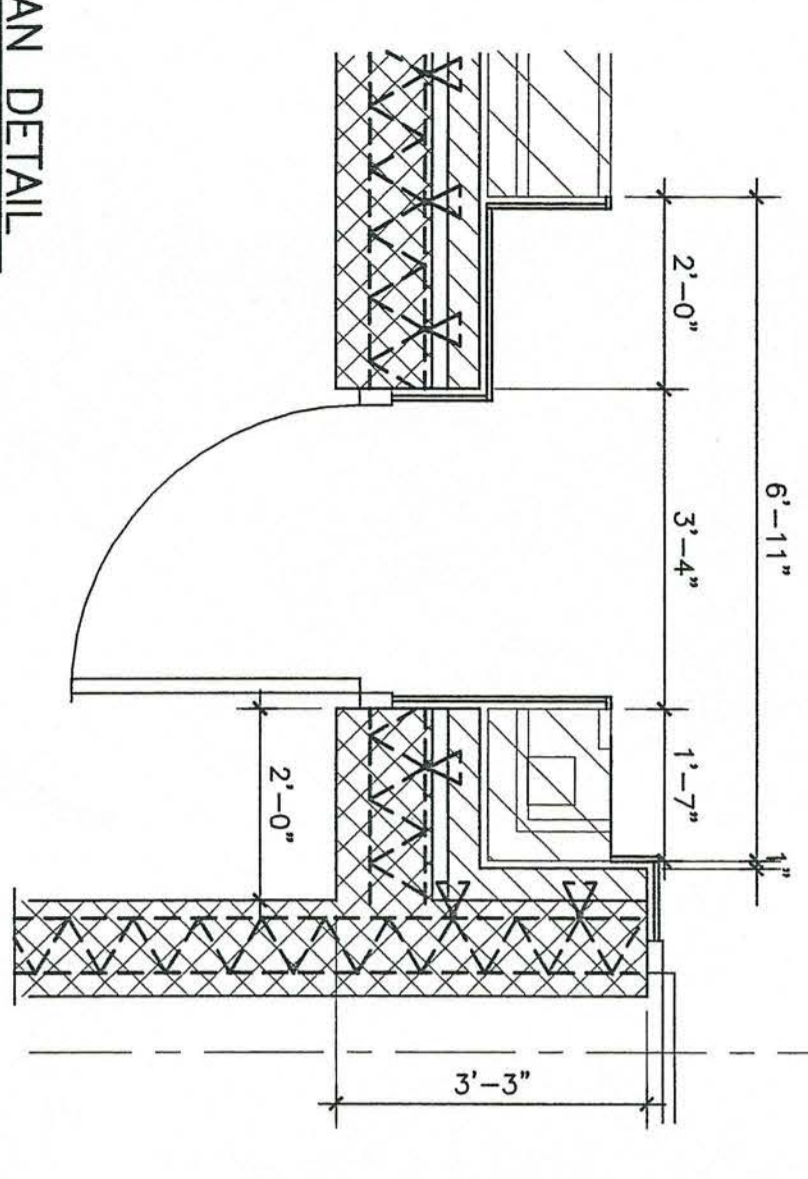
5 PLAN DETAIL  
SCALE 1/2" = 1'-0"



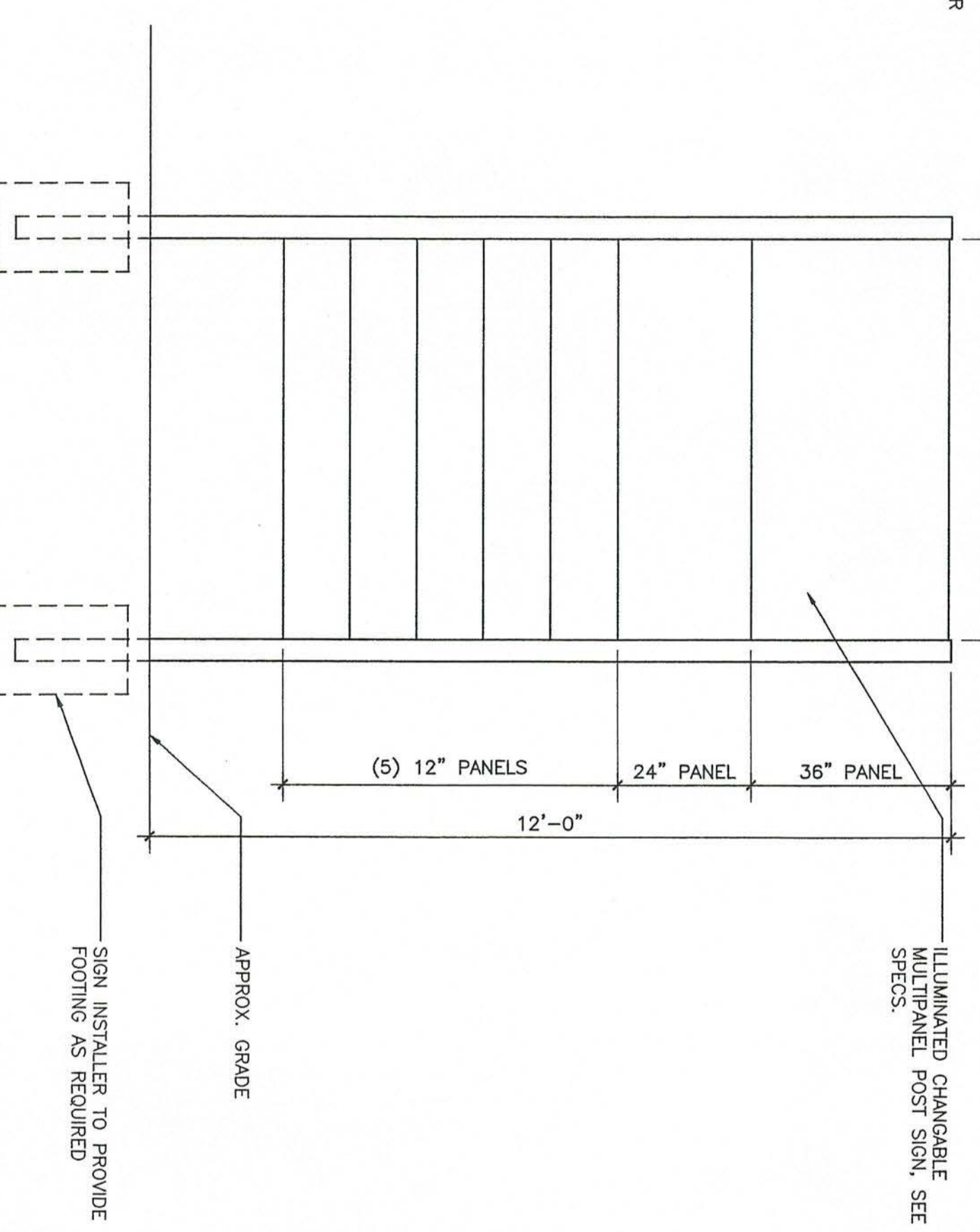
6 PLAN DETAIL  
SCALE 1/2" = 1'-0"



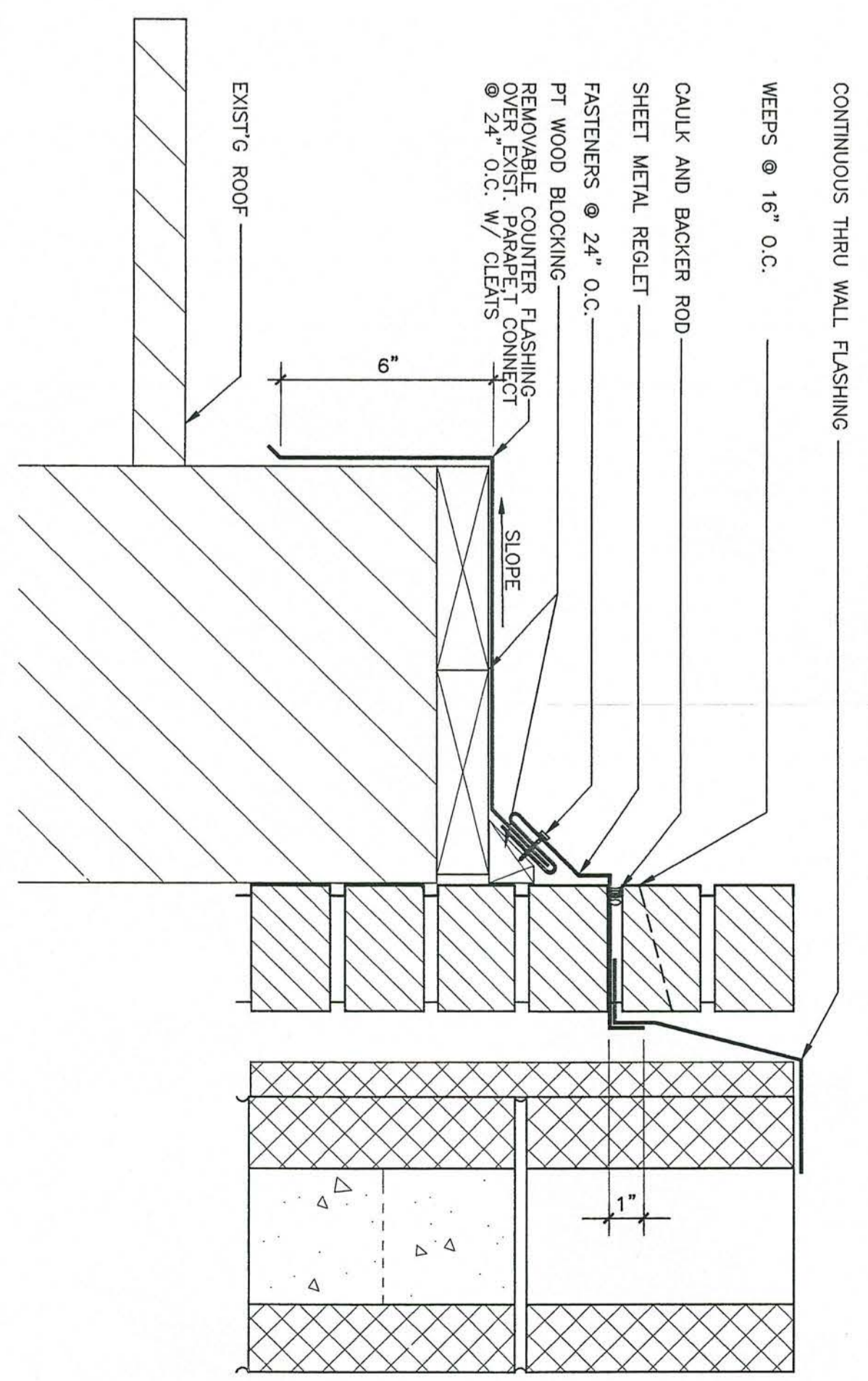
7 PLAN DETAIL  
SCALE 1/2" = 1'-0"



8 ILLUMINATED MULTIPANEL SIGN  
SCALE 1/2" = 1'-0"  
ALTERNATE A-7

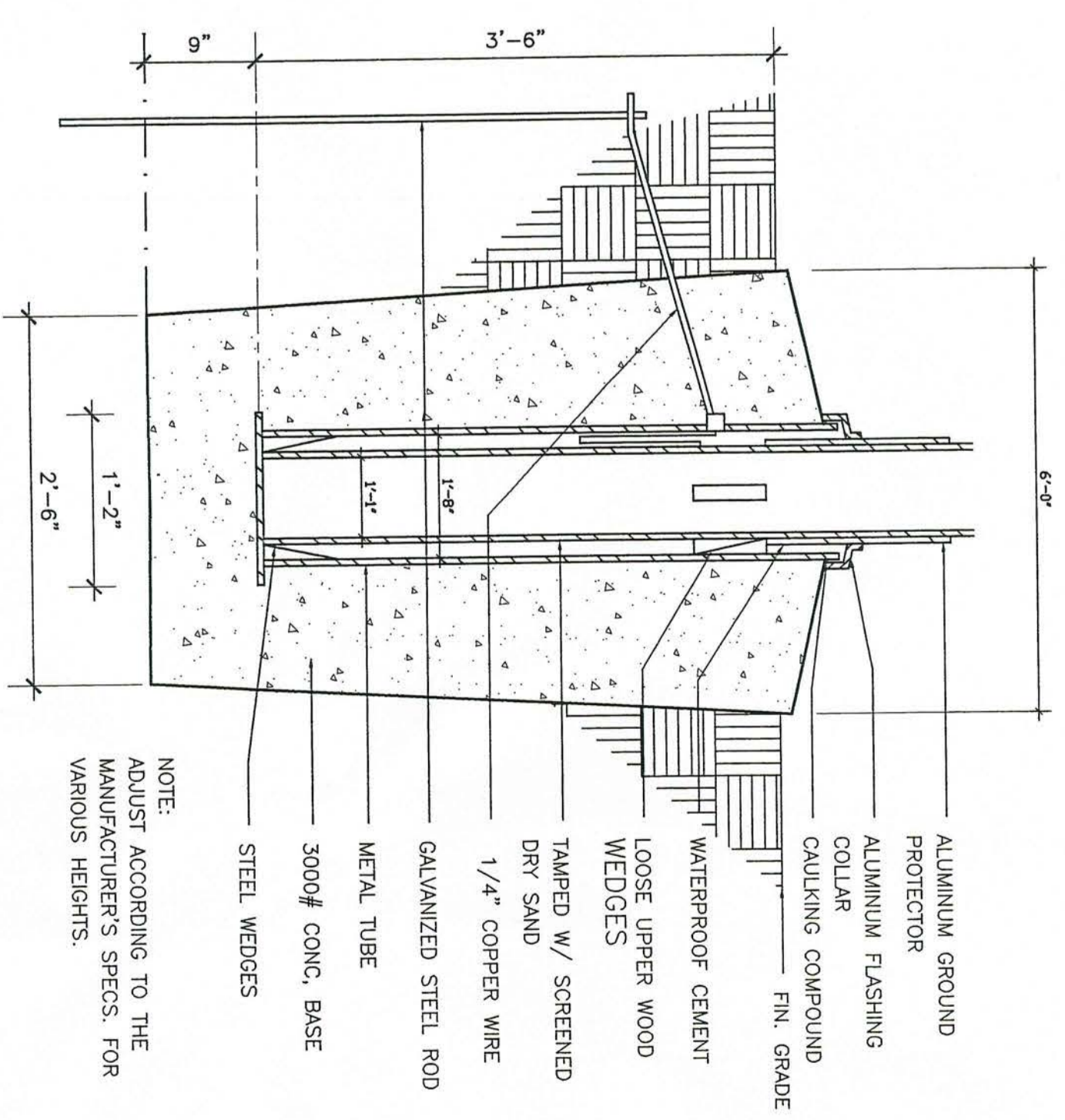
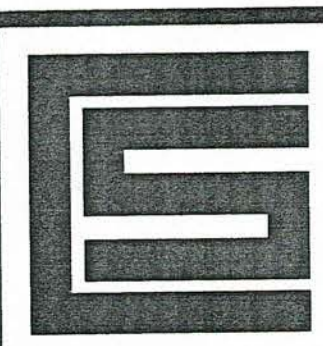
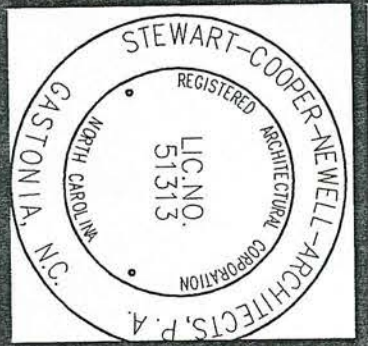


14 FLASHING DETAIL  
SCALE 3" = 1'-0"

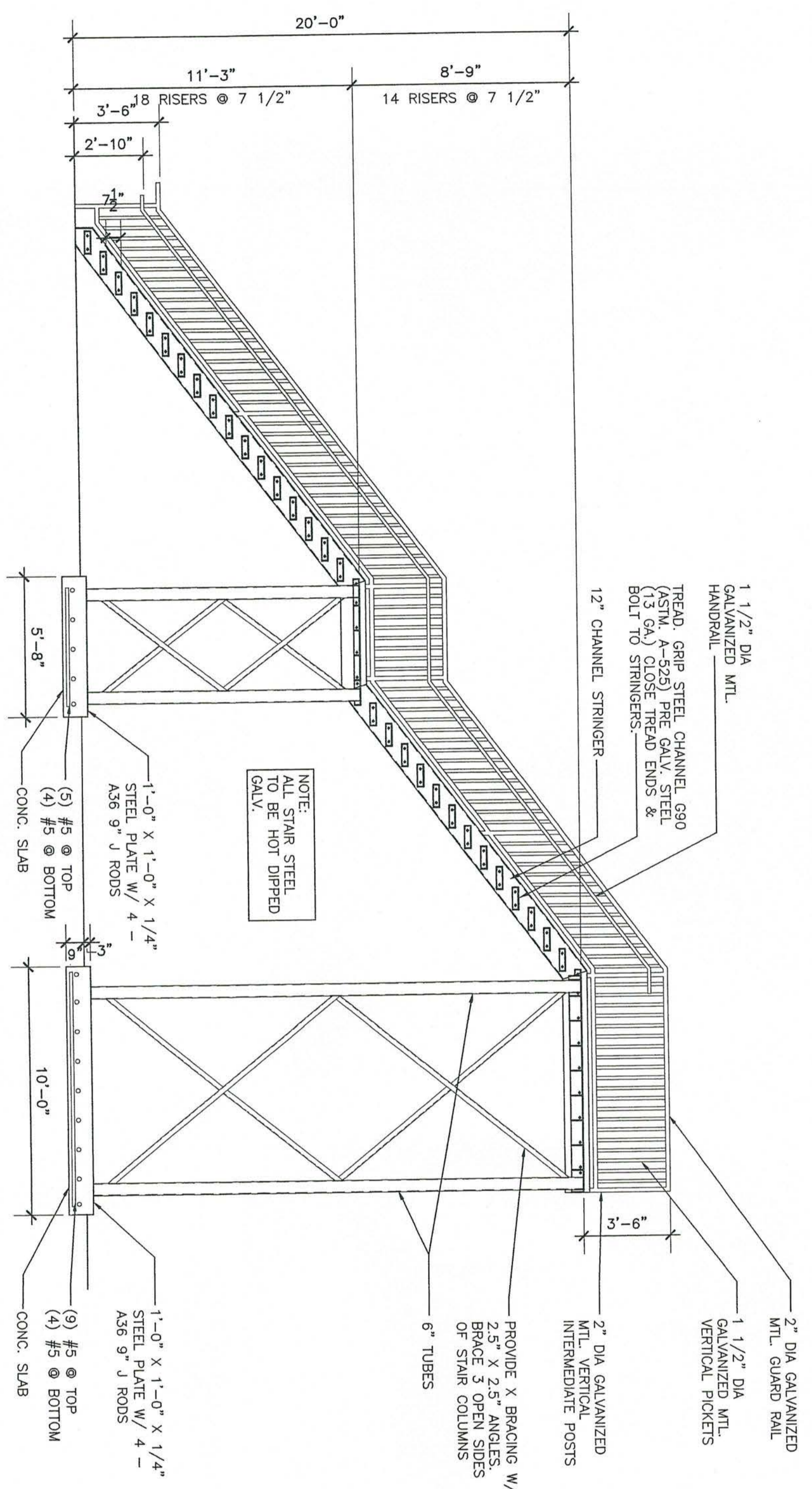


IMPORTANT NOTE:  
ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES. ALL IS RESPONSIBLE FOR THE ACCURACY OF ALL INFORMATION AND TO COORDINATE THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHER CONTRACTORS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR THE ACCURACY OF ALL INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF ALL INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF ALL INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF ALL INFORMATION.

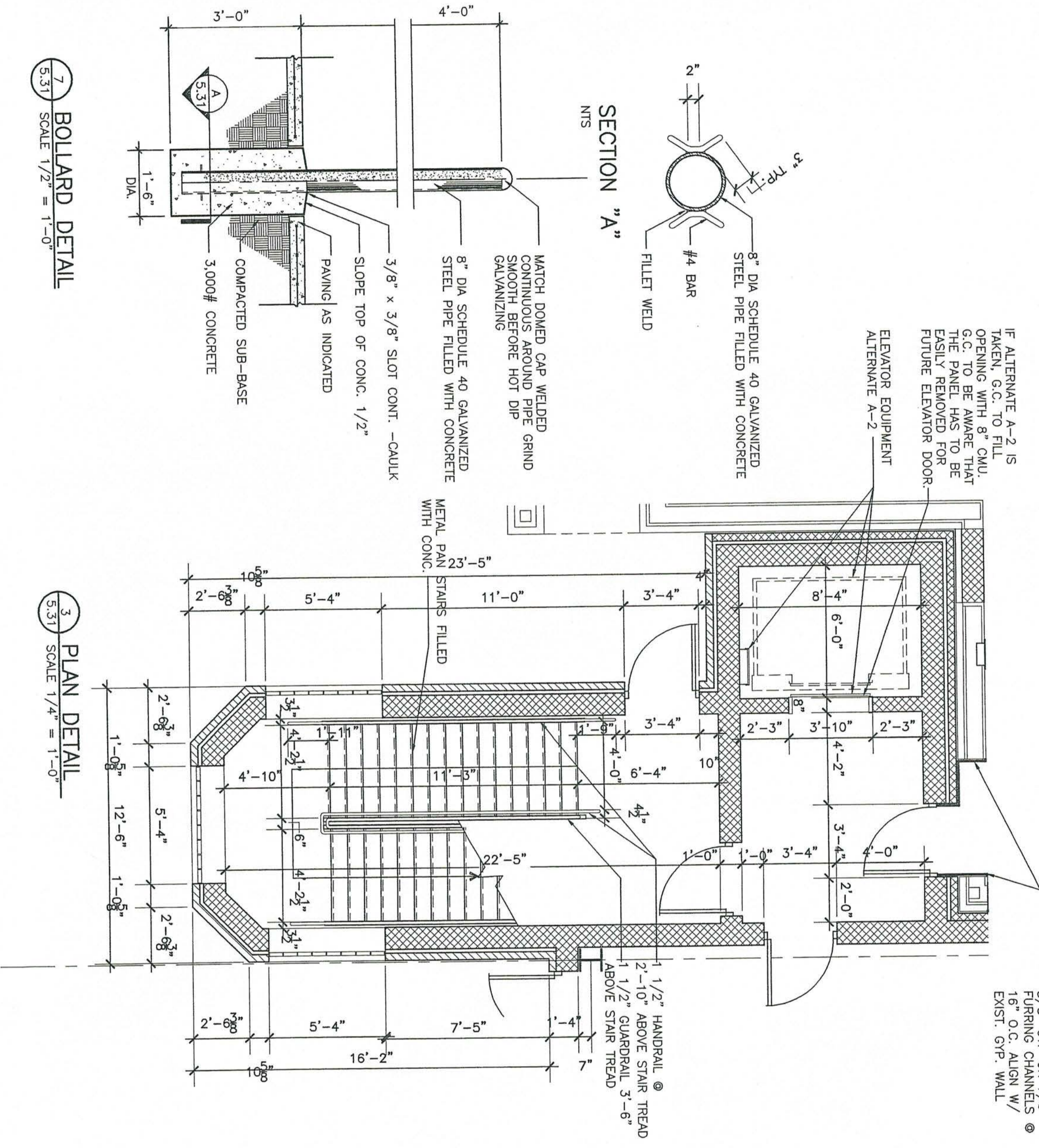




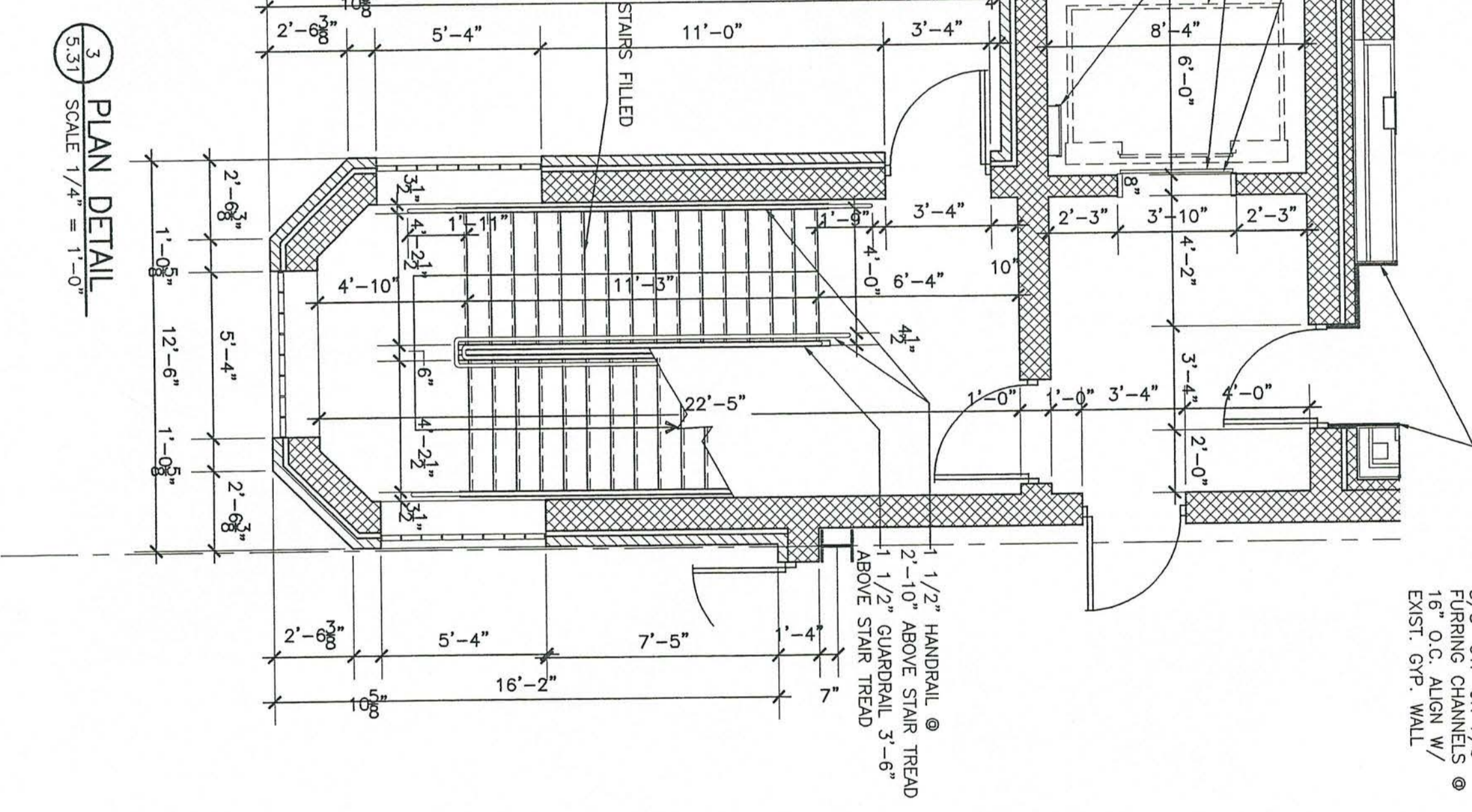
5 FLAGPOLE FOUNDATION  
 SCALE 1" = 1'-0"



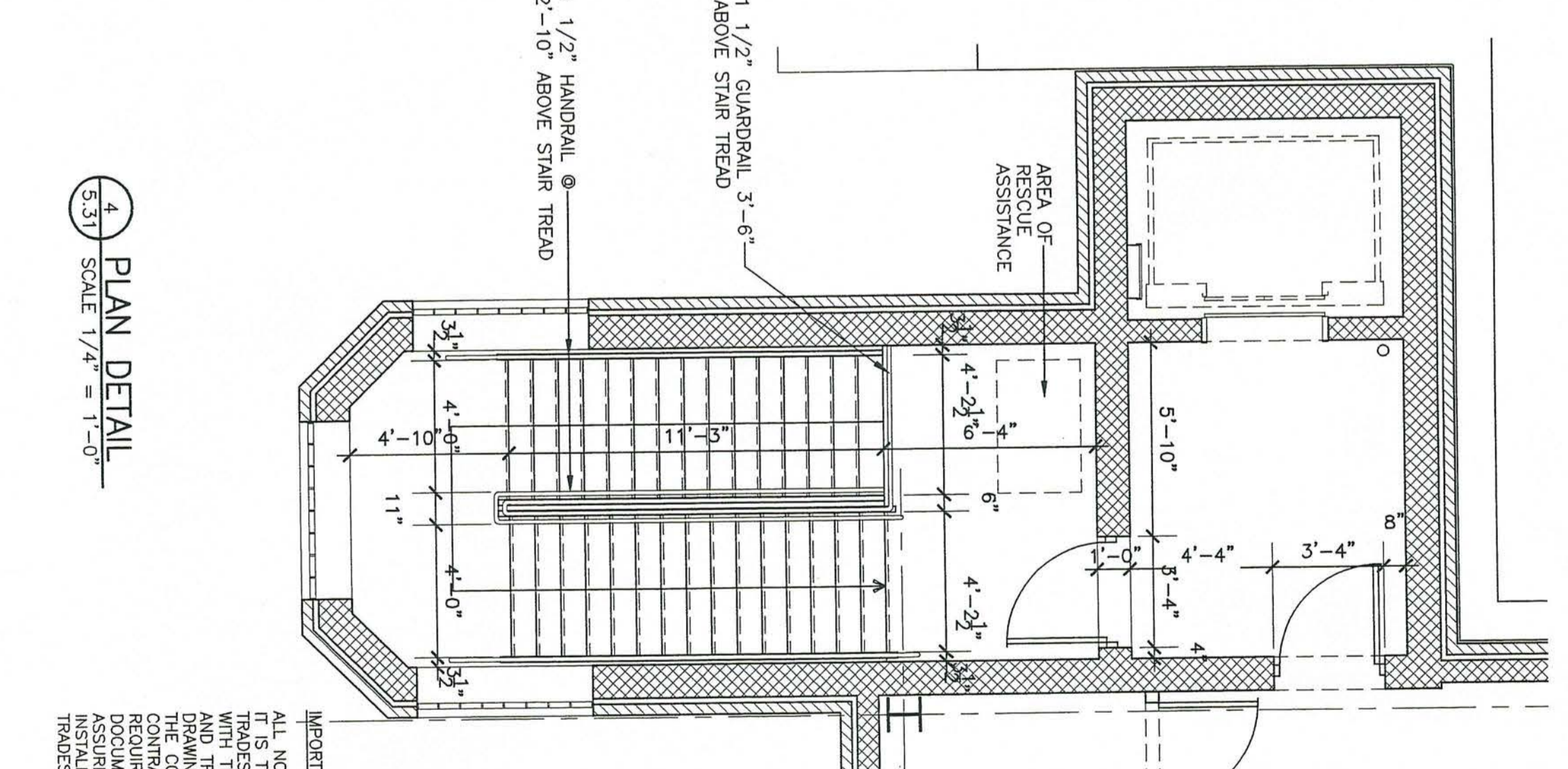
2 SECTION  
 SCALE 1/4" = 1'-0"



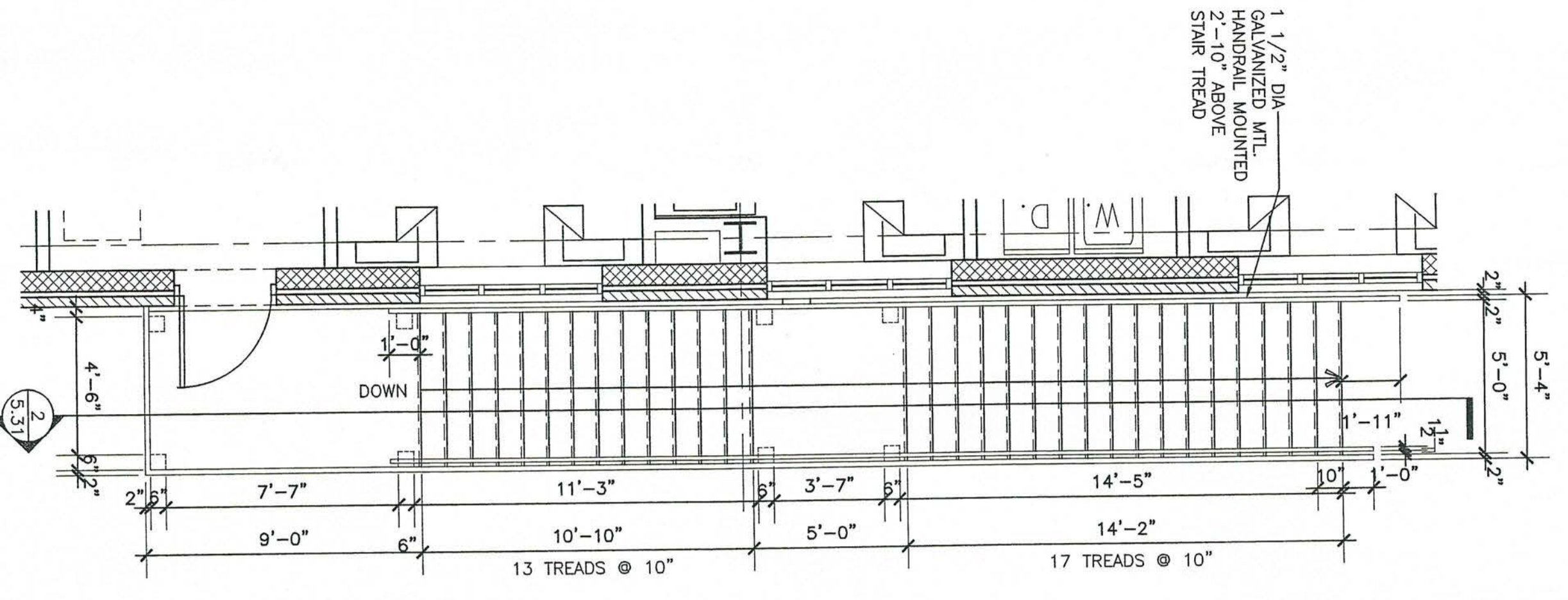
7 BOLLARD DETAIL  
 SCALE 1/2" = 1'-0"



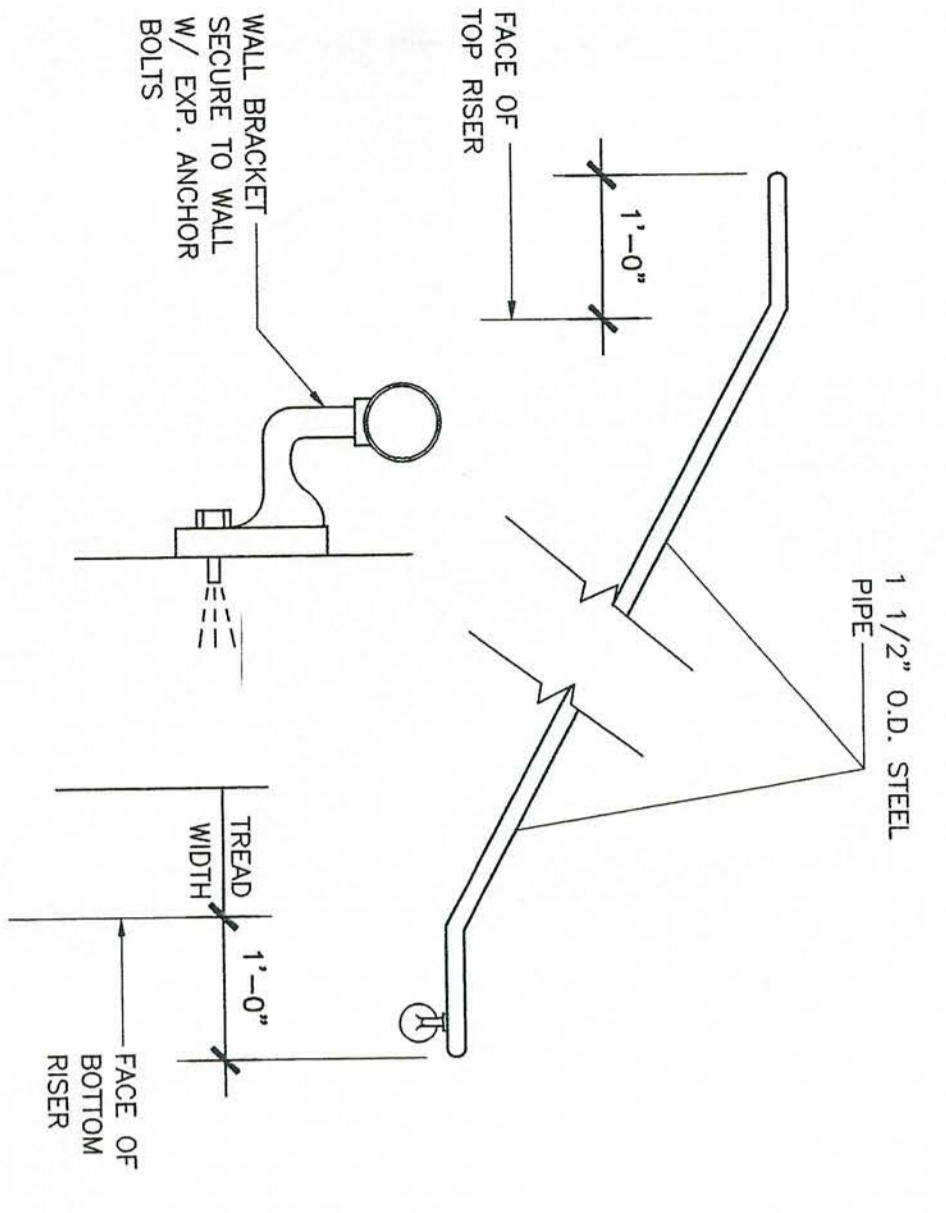
3 PLAN DETAIL  
 SCALE 1/4" = 1'-0"



4 PLAN DETAIL  
 SCALE 1/4" = 1'-0"



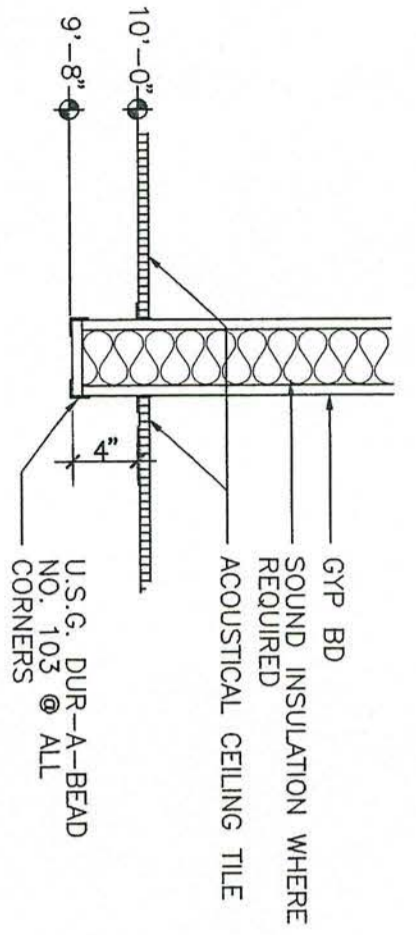
1 PLAN DETAIL  
 SCALE 1/4" = 1'-0"



6 HANDRAIL DETAIL  
 SCALE 1/4" = 1'-0"

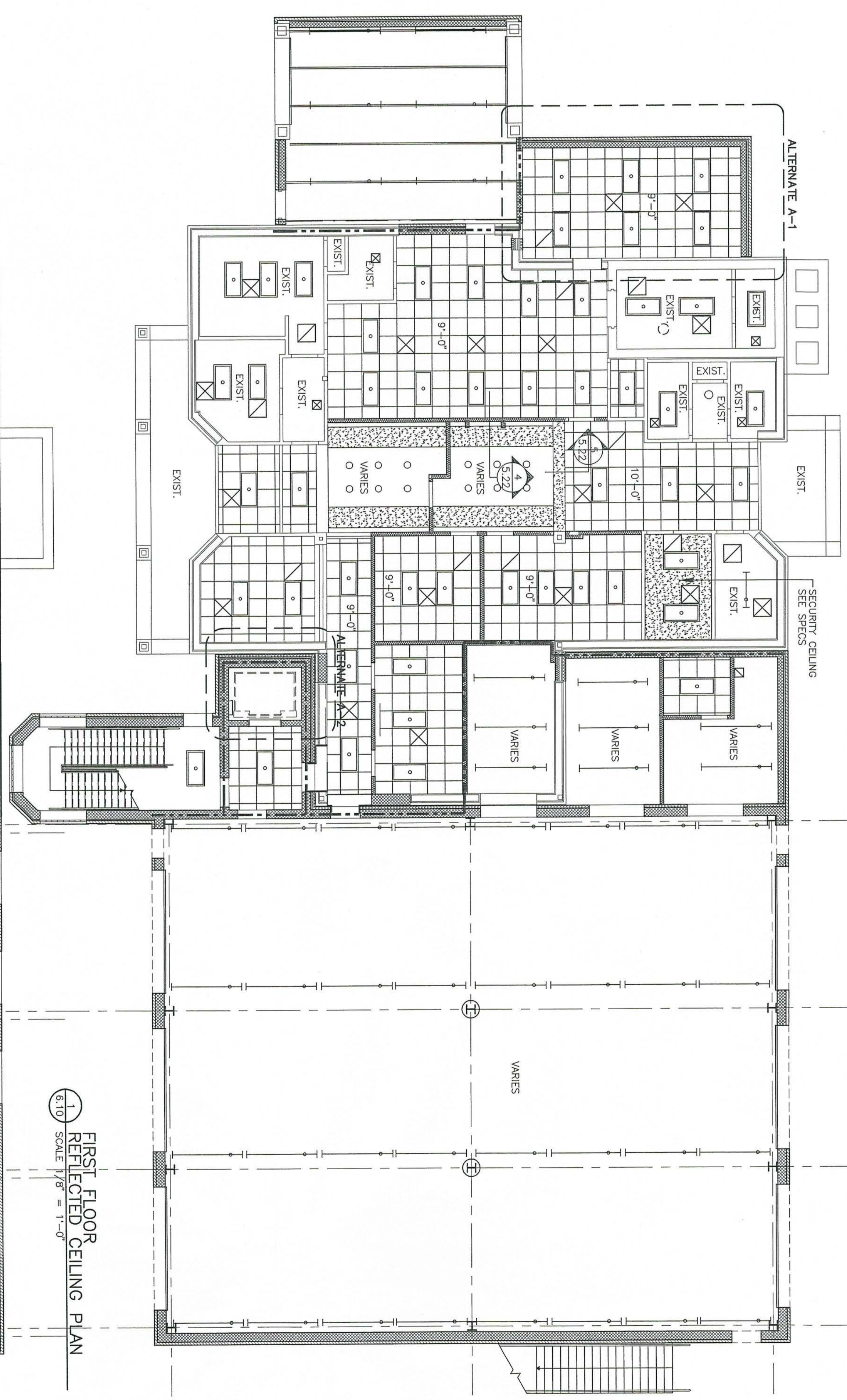
**IMPORTANT NOTE:**  
 ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRACES. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AND TRADES TO COORDINATE THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION REQUIREMENTS OF THE OTHER CONTRACTORS DRAWINGS. GENERAL REQUIREMENTS AND ALL ITEMS OF THE CONTRACT DOCUMENTS ARE EQUALY BINDING ON ALL CONTRACTORS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.



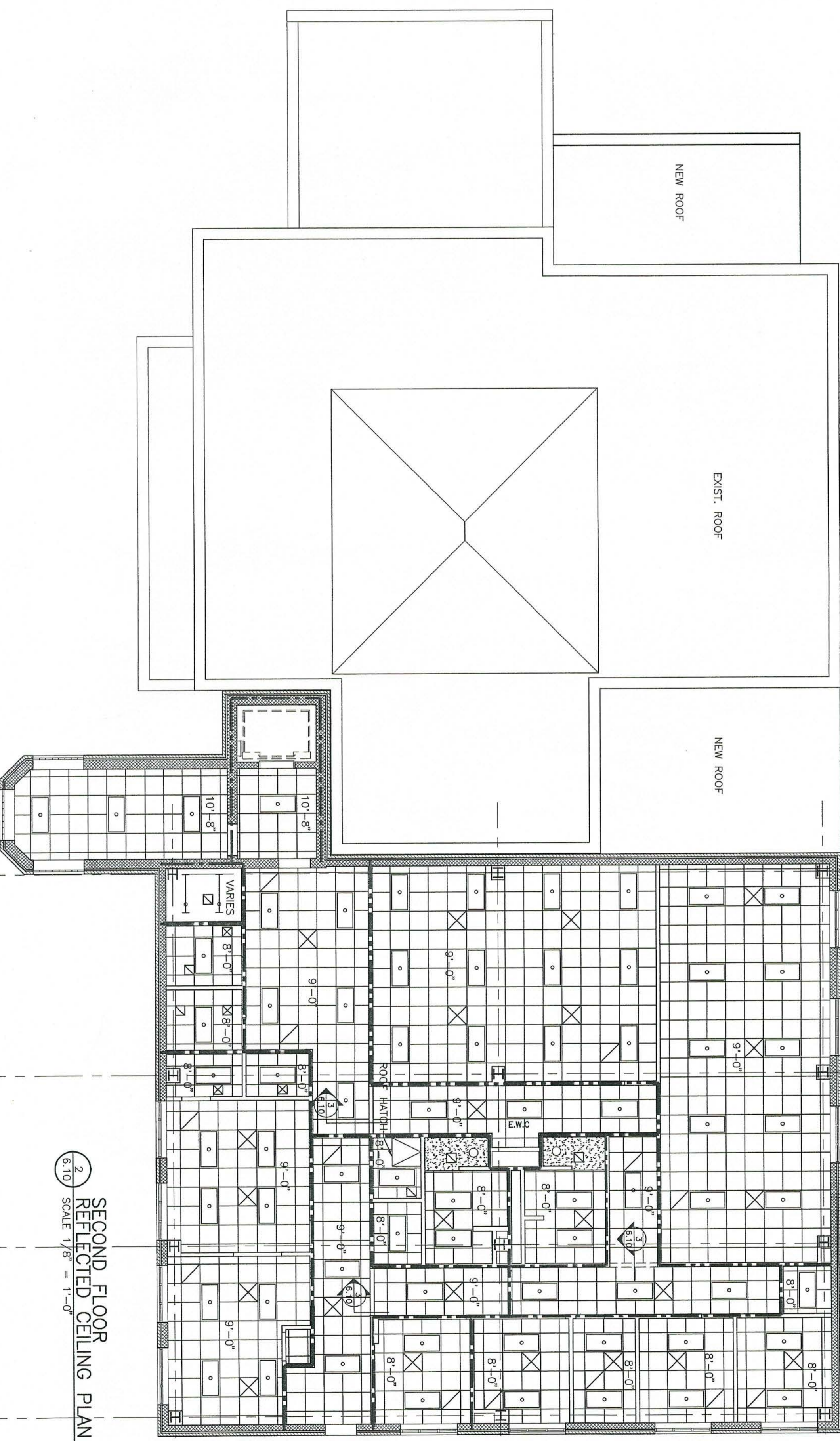


3 TYP. BULKHEAD DETAIL  
SCALE 1" = 1'-0"  
6.10

NOTE:  
PROVIDE EXPANSION JOINT  
@ WALL INTERSECTION



1 FIRST FLOOR  
REFLECTED CEILING PLAN  
SCALE 1/8" = 1'-0"  
6.10

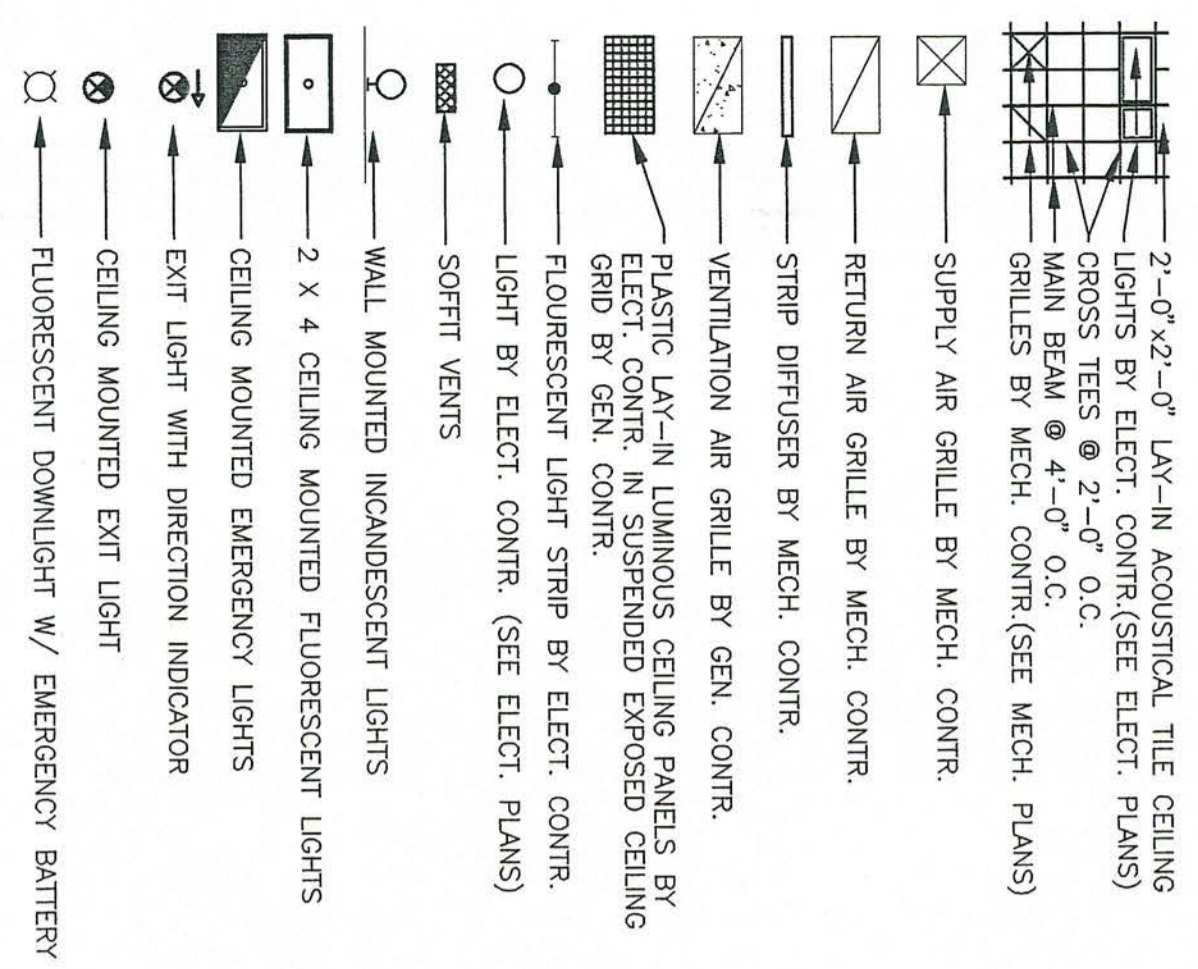


2 SECOND FLOOR  
REFLECTED CEILING PLAN  
SCALE 1/8" = 1'-0"  
6.10

REFLECTED CEILING PLAN NOTES

- 1) PROVIDE 3" SOUND ATTENUATION BLANKETS ABOVE ALL CEILINGS UNLESS NOTED OTHERWISE.
- 2) GENERAL CONTRACTORS SHALL COORDINATE INSTALLATION AND PROPER LOCATION OF ALL HVAC GRILLES AND LIGHTING. CEILING GRID MAY BE SUBJECT TO CHANGE TO ASSURE PROPER CENTERING AND PLACEMENT OF LIGHTS IN ROOMS. NO CEILING TILES ARE TO BE LESS THAN 6" IN EITHER DIRECTION. SEE ADDITIONAL INSULATION NOTES ON 1.70.
- 3) ALL CEILING HEIGHTS TO BE 9'-0" UNLESS NOTED OTHERWISE.
- 4) REFER TO MECHANICAL SHFT. (9.11/9.22) & ELECTRICAL SHFT. (10.2/10.3) FOR DIFFUSER & LIGHT FIXTURE LOCATIONS

REFLECTED CEILING PLAN LEGEND



<p>RENOVATIONS AND ADDITIONS FOR THE <b>NEW PUBLIC SAFETY BUILDING</b> Pine Knoll Shores, North Carolina</p>		<p><b>Stewart-Cooper-Newell-Architects</b> Planning    Architecture    Interiors</p> <p>719 east second ave. gastonia, nc 28054 phone: 704.865.6311 fax: 704.865.0046</p> <p>www.scn-architects.com</p>		<p>Project No. <b>999</b></p> <p>Date 8-01-02</p> <p>Drawn APS</p> <p>Checked JRS</p> <p>Revisions</p>
<p>CEILING PLAN</p> <p>Sheet <b>6.10</b></p>				



**GENERAL PAINTING & FINISH NOTES:**

1. ALL DOORS, WINDOW STUOLS ETC. SHALL BE NATURAL RED OAK WITH CLEAR POLYURETHANE FINISH.
2. DOOR FRAMES SHALL BE PAINTED WITH SEMI-GLOSS ENAMEL TO MATCH THE ADJACENT WALL COLOR.
3. PROVIDE WHITE MARBLE THRESHOLDS AT ENTRANCES TO ALL ROOMS WITH HARD TILE FLOORS, NOTED AS MT ON DRAWINGS.
4. PROVIDE MAIN ENTRANCE ALL INTERIOR & EXTERIOR WINDOWS.
5. PRIME ALL SURFACES PRIOR TO APPLYING FINAL PAINT FINISHES.
6. ALL SURFACES SHALL RECEIVE A FINISH WHETHER NOTED OR NOT. ITEMS NOT NOTED WILL BE SELECTED BY THE ARCHITECT DURING CONSTRUCTION.
7. CARPET TO TILE AND TILE TO TILE TRANSITION STRIPS TO MATCH ROOM RB, UNLESS NOTED OTHERWISE.
8. CARPET TO TILE AND TILE TO TILE TRANSITION STRIPS TO MATCH ROOM RB, UNLESS NOTED OTHERWISE.

**CARPET (NOTED AS C-)**

- C-1 SHAW CONTRACT - ILLUSIONS II BI - 45340 SCHOOL PLAY PORCELAIN FLOOR TILE (NOTED AS PFT-)

- PFT-1 CROSSVILLE CERAMICS - A246 PACIFIC SURF 1/8" JOINTS AND MATCHING GROUT (8" X 8" TILES)
- PFT-2 CROSSVILLE CERAMICS - A246 PACIFIC SURF UP WITH 1/8" JOINTS AND MATCHING GROUT (4" X 8" BULLNOSE & BULLNOSE CORNERS AS REQUIRED)
- PFT-3 CROSSVILLE CERAMICS - A246 PACIFIC SURF 1/8" JOINTS AND MATCHING GROUT (2" X 2" TILES)

- CERAMIC WALL TILE (NOTED AS CWT-)
- CWT-1 DALTELE 4" X 4" GLAZED WALL TILE 0145 MAJORCA - SEMI GLOSS
- CWT-2 DALTELE 4" X 4" GLAZED WALL TILE K182 TEAL - SEMI GLOSS

- VINYL COMPOSITION TILE (NOTED AS VCT-)
- VCT-1 MANNINGTON COMMERCIAL INSPIRATIONS - 407 BEIGE MULTIFLEC

- RESILIENT BASE (NOTED AS RB-)
- RB-1 ROPPE 1/8" X 4" HIGH COVE RUBBERNYTE COLOR P169 - HUNTER GREEN

- PAINT (NOTED AS P-)
- P-1 DUREN CROSSW - APPLE DELIGHT LATEX
- P-2 DUREN CROSSW - APPLE DELIGHT POLYURETHANE
- P-3 GUDEN CROSSW - APPLE DELIGHT DRYFOC SEMI-GLOSS ULTRA HIDE ALKYD SPRAY ENAMEL
- P-4 DUREN 8094M - KENTUCKY GRASS LATEX

- CEILING TILE (NOTED AS CLG-)
- CLG-1 ARANSTRONG CORTEGA MINIBOARD 24" X 24" X 3/4" TEE GRID WHITE
- CLG-2 GYPSUM BOARD
- CLG-3 EXPOSE STRUCTURE (PAINT)
- CLG-4 SPRAY FIREPROOFING ON STEEL BEAMS AS PER U# 0916
- CLG-5 SECURITY CEILING PLASTIC LAMINATE (NOTED AS PL-)

- PL-1 FORMICA 483-58 SAIL WHITE - MATTE FINISH
- PL-2 FORMICA 7267-58 CONCRETE STONE - MATTE FINISH
- PL-3 FORMICA 128-42 NILE DORIAN MARBLE - SPARKLE FINISH

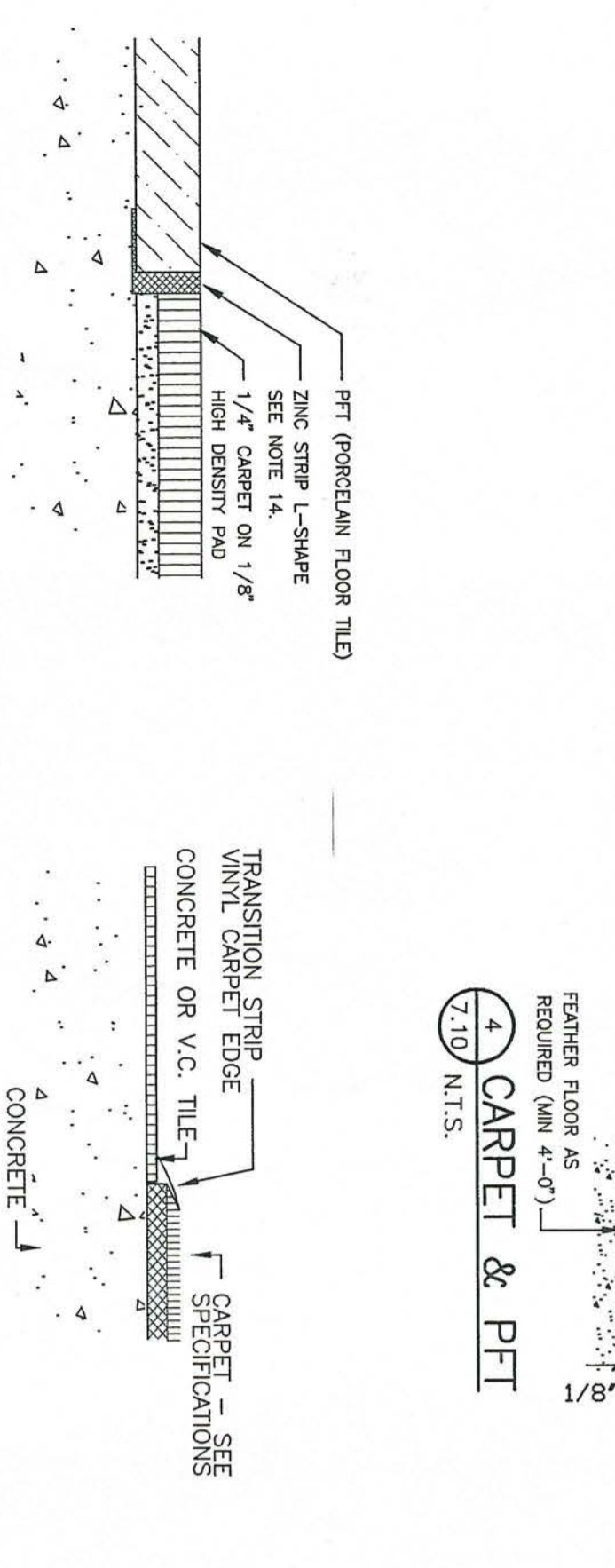
- MINI BLINDS
- MB-1 LEVELOR RIVIERA WHITE 110 - INSTALL AT ALL INTERIOR AND EXTERIOR WINDOWS EXCEPT MAIN ENTRANCE.

- RUBBER FLOOR (NOTED AS RF-)
- RF-1 ROPPE - P198 NORVY - MATCHMAKERS

- WALL PATTERNS
- WS-1 SEE 3/7.10

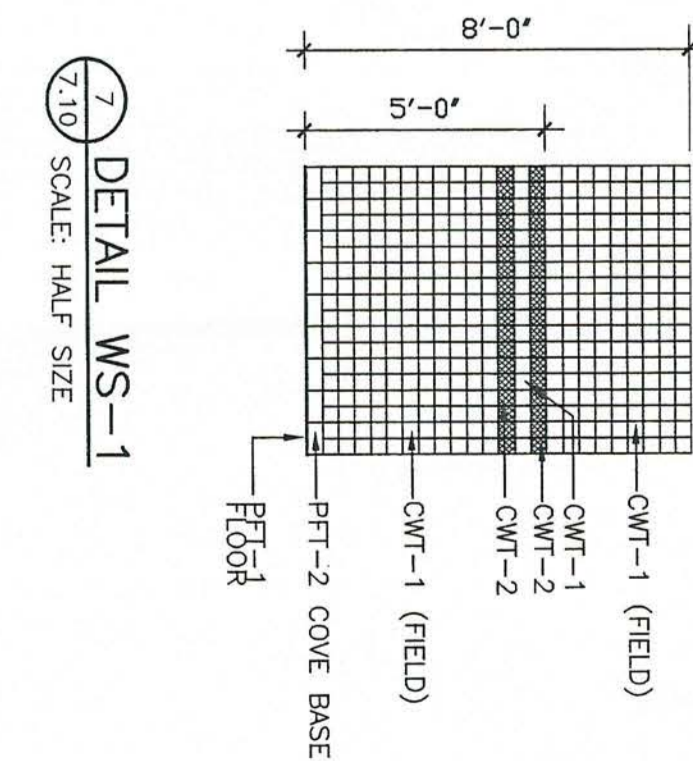
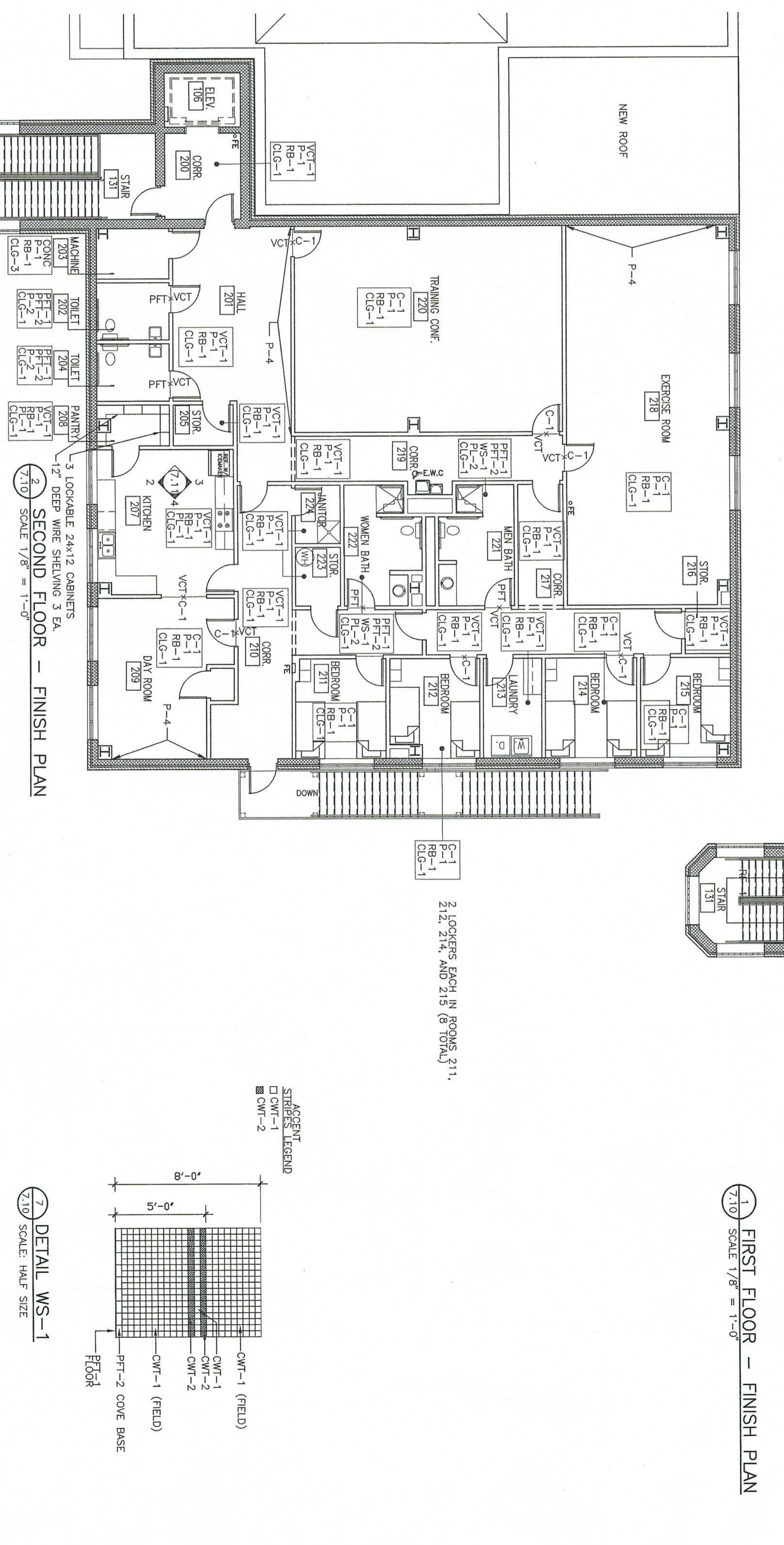
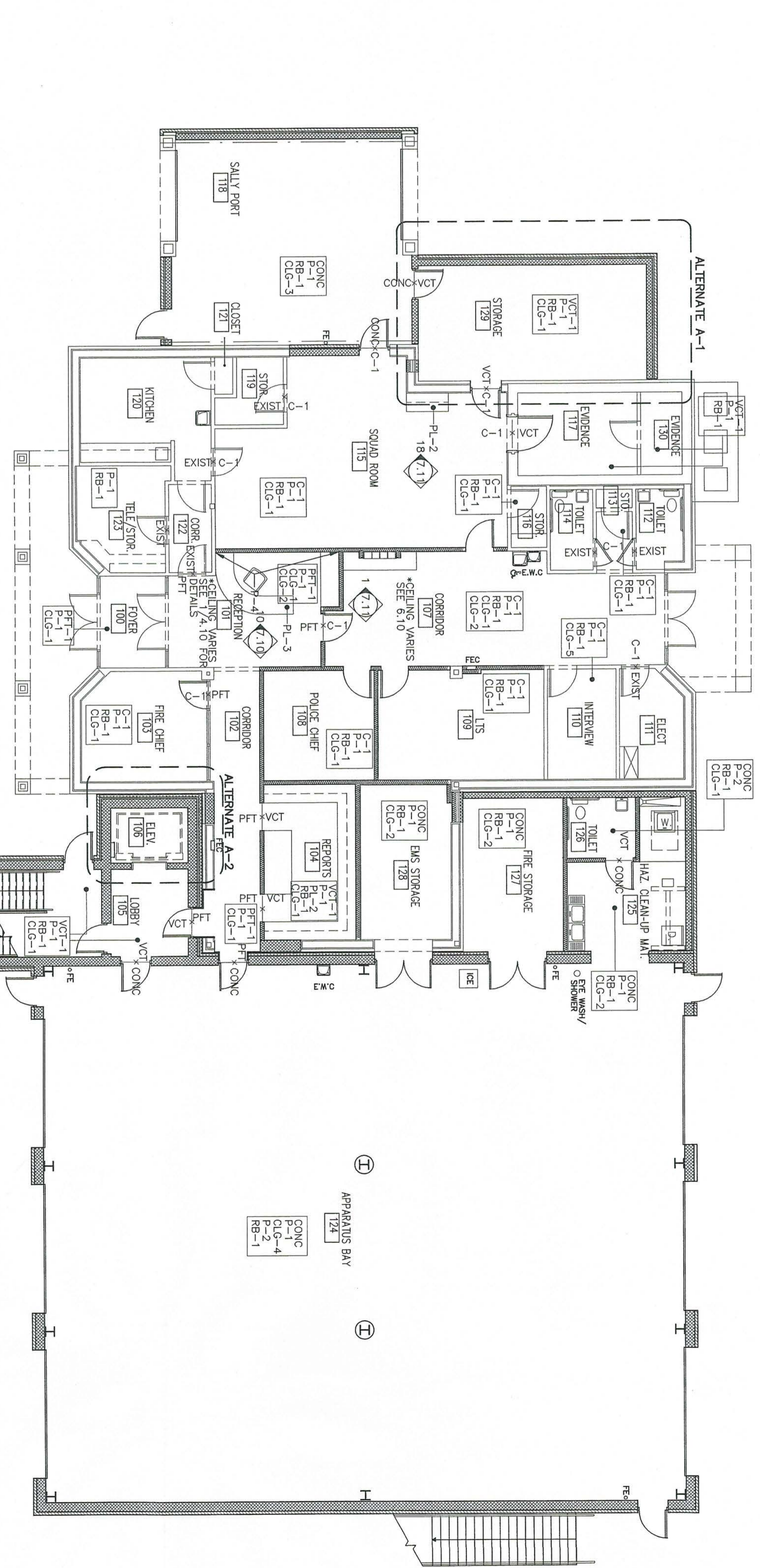
**NOTES:**

1. INTERIOR BLOCKS - 2-COATS OF BLOCK FILLER
2. 2-COATS OF POLYURETHANE
3. EXPOSED CONCRETE FLOOR TO RECEIVE CONG. SEALER. ALTERNATE A-3 IS TO PROVIDE SPECIAL CONCRETE FINISH. IN APPARATUS 124, HAZ. CLEAN-UP 125, TOILET 126, FIRE STORAGE 127 & EMS STORAGE 128.
4. ALL COLORS NOT SHOWN TO BE SELECTED @ LATER DATE.
5. CONTRACTOR TO BUILD 4" X 4" BRICK & SPLIT FACE SAMPLE WALL FOR APPROVAL PRIOR TO BEGINNING BRICK WORK ON BUILDING.
6. ALL UNFINISHED SPACE TO BE SEALED CONG. FLOORS, EXPOSED STUD OR CMU WALLS, NO CEILINGS - EXPOSED TO STRUCTURE
7. ALL CABINETS/CASEWORK TO BE MEADOW OAK II CATHEDRAL AS MFD. BY MERRILLAT OR APPROVED EQUAL.
8. ANY FLOOR PREP. WORK TO BE IN THE BASE BID



THE PFT AT THESE LOCATIONS MUST MEMBER OUT WITH THE CARPET. FEATHER CARPET 4'-0" TO THE PFT.

**6 CARPET EDGE DETAIL**  
7/10 SCALE: HALF SIZE



2 LOCKERS EACH IN ROOMS 211, 212, 214, AND 215 (8 TOTAL)

3 LOCKABLE 24x12 CABINETS  
1/2 DEEP WIRE SHELVING 3 EA.

STRIPES LEGEND  
□ CWT-1  
□ CWT-2

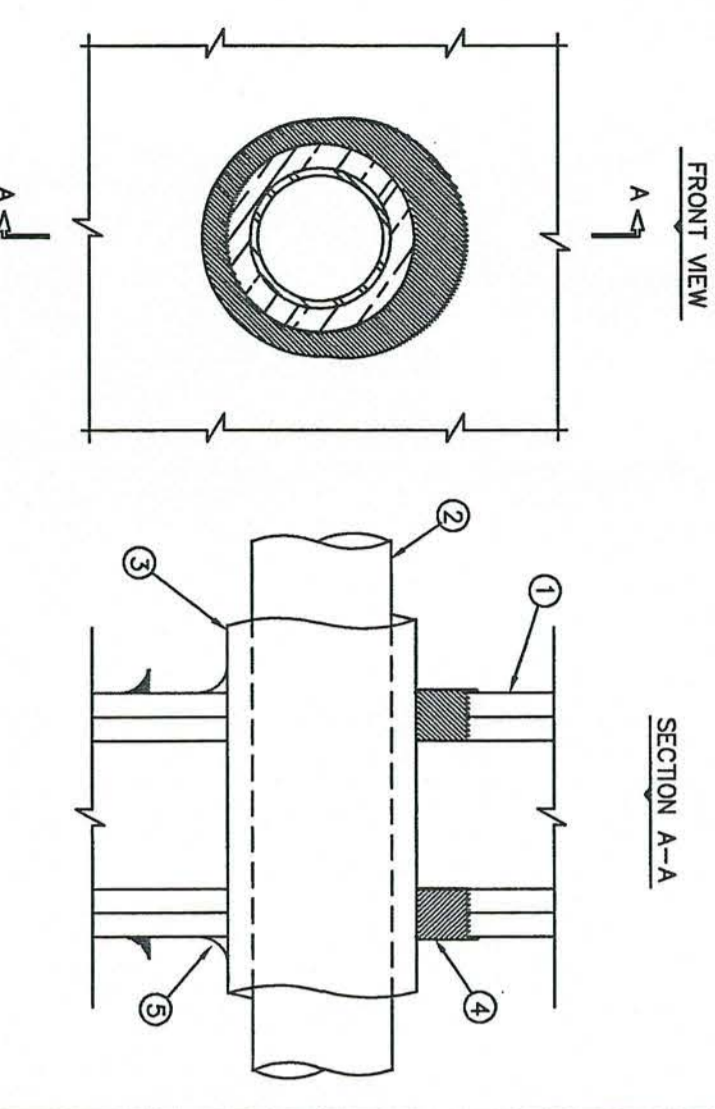
FLOOR  
PFT-2 COVE BASE  
CWT-1 (FIELD)  
CWT-1  
CWT-2  
CWT-2 (FIELD)







**UL SYSTEM NO. WL5028**  
**INSULATED METAL PIPE THROUGH 1-HR. OR 2-HR. Gypsum WALL ASSEMBLY**  
 F RATING = 1-HR AND 2-HR L RATING AT AMBIENT = 4 GPM/50 FT.  
 T RATING = 1/2-HR L RATING AT 400F = LESS THAN 1 GPM/50 FT.



1. GYPSUM-WALL ASSEMBLY (1-HR. OR 2-HR. FIRE RATING)(2-HR. SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
  - A. MAXIMUM 4" DIAMETER STEEL PIPE.
  - B. MAXIMUM 2" DIAMETER COPPER PIPE.
  - C. MAXIMUM 2" DIAMETER EXT.
  - D. MAXIMUM 4" DIAMETER STEEL CONDUIT.
3. MAXIMUM 3/4" THICK (80/PVC) FLEXIBLE FOAM TYPE PIPE INSULATION.
4. HILT FS-ONE FIRESTOP SEALANT:
  - A. MINIMUM 5/8" DEPTH, FOR A 1-HR. FIRE-RATING.
  - B. MINIMUM 1-1/4" DEPTH, FOR A 2-HR. FIRE-RATING.
  - C. MINIMUM 1/2" CROWN HILT FS-ONE FIRESTOP SEALANT AT PIPE INSULATION/WALL ASSEMBLY INTERFACE.

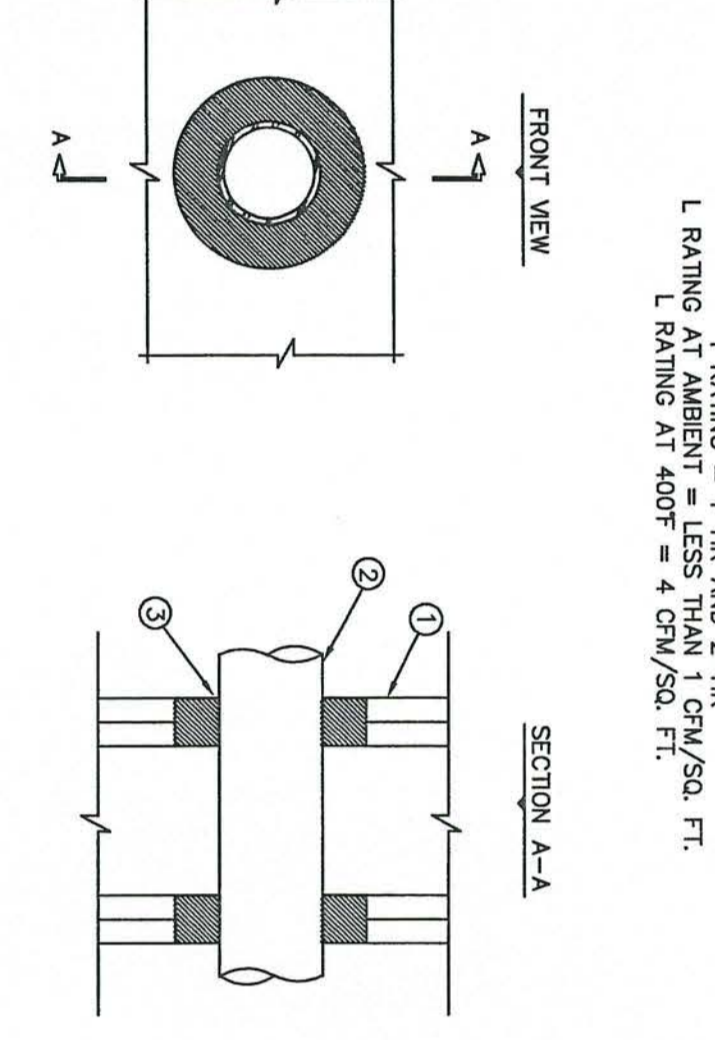
NOTES: 1. MAXIMUM DIAMETER OF OPENING = 2-1/2".  
 2. ANNULAR SPACE = MINIMUM 0". MAXIMUM 1-1/2".

**3 FIRE STOP DETAIL U.L.# WL 5028**  
 NO SCALE

**COMPRESSED AIR SPECIFICATIONS**

- HOSE REEL SPECIFICATION**
1. EQUAL TO REEL, CAPT SERIES 5088 Q, MODEL 5850, O.P. SPRING DRIVEN REEL, WITH 50' OF 3/8" HOSE, INSULATED, RATED @ 500 PSIG.
- COMPRESSED AIR PIPING SPECIFICATION: (TRANSPIRE SPECIFICATION)**
1. THE COMPRESSED AIR DISTRIBUTION SYSTEM SHALL BE A PUSH TO FIT SYSTEM AND SHALL BE MANUFACTURED IN ACCORDANCE TO ISO 9001 PROCEDURE. IT SHALL BE TUV CERTIFIED AND IT SHALL COMPLY WITH ASME B31.1 STANDARD (FLOWER PIPING) AND IT SHALL COMPLY WITH ASME B31.1.1 NON-FERROUS (METALIC) FLUID POWER SYSTEMS (RELATIVE TO SYSTEMS). THE TUBING WILL BE A RIGID PIPE, MANUFACTURED IN EXTRUDED ALUMINUM 6060 T5 AND POWER COATED IN RAL5023 BLUE. IT SHALL BE IN 25mm AND 40mm O.D. IN 10' AND 20' LENGTHS. (25mm = 1" 40mm = 1 1/2")
- TECHNICAL SPECIFICATIONS:**
- 1. MAXIMUM WORKING PRESSURE - 185 PSIG
  - 2. WORKING TEMPERATURE - -4F TO 140F
  - 3. FITTINGS, CONFORM TO UL94-B
  - 4. HOSE, CONFORM TO UL94-B
  - 5. FLEXIBLE HOSE, CONFORM TO ASTM C 842

**UL SYSTEM NO. WL2098**  
**CLOSED PVC/GPVC PLASTIC PIPE THROUGH 1-HR. AND 2-HR. GYPSUM WALL ASSEMBLY**  
 F RATING = 1-HR AND 2-HR L RATING AT AMBIENT = LESS THAN 1 GPM/50 FT.  
 T RATING = 1-HR AND 2-HR L RATING AT 400F = 4 GPM/50 FT.

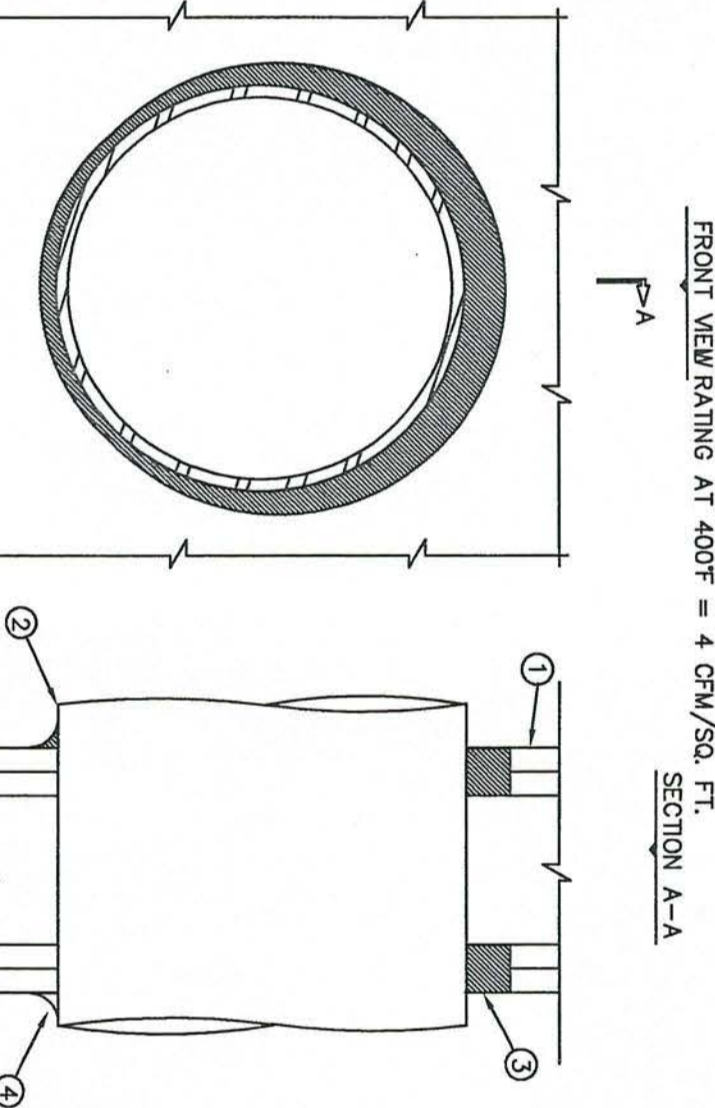


1. GYPSUM-WALL ASSEMBLY (1-HR. AND 2-HR. FIRE RATING)(2-HR. SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
  - A. MAXIMUM 2" DIAMETER PVC PLASTIC PIPE (CLOSED PIPING SYSTEM).
  - B. MAXIMUM 2" DIAMETER GPVC PLASTIC PIPE (CLOSED PIPING SYSTEM).
  - C. MAXIMUM 4" DIAMETER STEEL CONDUIT.
  - D. MAXIMUM 4" DIAMETER STEEL PIPE.
3. HILT FS-ONE FIRESTOP SEALANT:
  - A. MINIMUM 5/8" DEPTH, FOR A 1-HR. FIRE-RATING.
  - B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.

NOTES: 1. MAXIMUM DIAMETER OF OPENING = 2-1/2".  
 2. ANNULAR SPACE = MINIMUM 0". MAXIMUM 1-1/4".

**2 FIRE STOP DETAIL U.L.# WL 2098**  
 NO SCALE

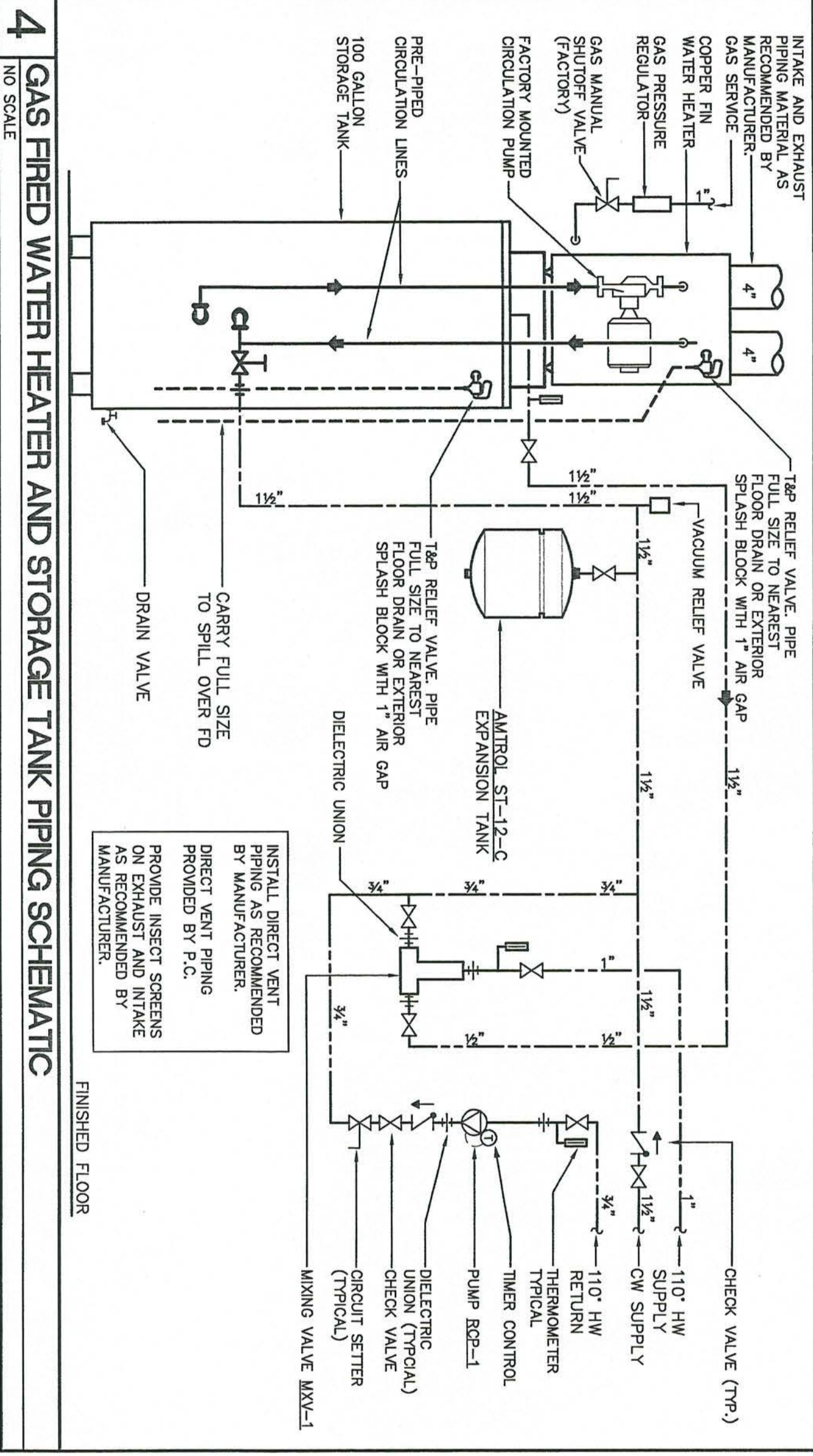
**UL SYSTEM NO. WL1054**  
**METAL PIPE THROUGH GYPSUM WALL ASSEMBLY**  
 F RATING = 1-HR OR 2-HR L RATING AT AMBIENT = LESS THAN 1 GPM/50 FT.  
 T RATING AT 400F = 4 GPM/50 FT.



1. GYPSUM-WALL ASSEMBLY (1-HR. AND 2-HR. FIRE RATING)(2-HR. SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
  - A. MAXIMUM 2" DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
  - B. MAXIMUM 2" DIAMETER COPPER PIPE.
  - C. MAXIMUM 4" DIAMETER STEEL CONDUIT.
  - D. MAXIMUM 4" DIAMETER STEEL PIPE.
3. HILT FS-ONE FIRESTOP SEALANT:
  - A. MINIMUM 5/8" DEPTH, FOR A 1-HR. FIRE-RATING.
  - B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.
4. MINIMUM 1/2" BEAD HILT FS-ONE FIRESTOP SEALANT FOR POINT OF CONTACT.

NOTES: 1. MAXIMUM DIAMETER OF OPENING = 2-1/2".  
 2. ANNULAR SPACE = MINIMUM 0". MAXIMUM 2-1/4".

**1 FIRE STOP DETAIL U.L.# WL1054**  
 NO SCALE



**4 GAS FIRED WATER HEATER AND STORAGE TANK PIPING SCHEMATIC**  
 NO SCALE

**PLUMBING LEGEND**

ABBREVIATIONS	DESCRIPTION
W	SANITARY WASTE PIPING - BELOW FLOOR/GRADE
V	SANITARY VENT PIPING - ABOVE CEILING
CW	COLD WATER PIPING - ABOVE CEILING
HW	HOT WATER PIPING - ABOVE CEILING
DN	ELBOW DOWN
DN	ELBOW UP
-	PIPE CONTINUES
-	BALL VALVE (FULL PORT)
CV	CHECK VALVE
FOO	FLOOR CLEAN OUT
YCO	YARD CLEAN OUT
CO	CLEAN OUT
FD	FLOOR DRAIN
A.F.F.	ABOVE FINISHED FLOOR
P.C.	PLUMBING CONTRACTOR
A.F.G.	ABOVE FINISHED GRADE
AA.V.	AIR ADMITTANCE VALVE
V.T.R.	VENT THROUGH ROOF

**PLUMBING SPECIFICATIONS**

- GENERAL REQUIREMENTS:**
1. GENERAL AND SPECIAL CONDITIONS: GENERAL AND SPECIAL CONDITIONS ARE HEREBY MADE AN INTEGRAL PART OF THIS DIVISION OF THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, FEES, AND INSURANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, FEES, AND INSURANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, FEES, AND INSURANCE.
  2. THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES.
  3. PERMITS: APPLY FOR AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSURANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, FEES, AND INSURANCE.
  4. WARRANTY: PROVIDE ALL MATERIALS AND EQUIPMENT UNDER THIS SECTION OF THE SPECIFICATIONS WITH A ONE YEAR WARRANTY FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER.
  5. COORDINATION: VERIFY ALL ROUGH-IN LOCATIONS AND COORDINATE PIPING AND EQUIPMENT LOCATIONS WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID CONFLICTS.
  6. FIELD VERIFICATION: FIELD VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, FEES, AND INSURANCE.
  7. PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO:
    - FIRE STOPPING
    - PLUMBING FIXTURES AND EQUIPMENT
    - SANITARY WASTE AND VENT SYSTEM (CONDENSATE DRAIN)

**PLUMBING FIXTURE AND EQUIPMENT SCHEDULE**

SYMBOL	DESCRIPTION	CONNECTIONS (IN)	W	V	CW	HW	SPECIFICATION	REMARKS
P-1	WATER CLOSET, A.D.A.	2"	2"	1/2"	-	-	FIGURE: A.S. 2163.182 "CODET" SEAT: CHURCH 9500C STOPS: MCGUIRE 185	PROVIDE LAYER ON WIDE SIDE OF STALL
P-2	WATER CLOSET, A.D.A. COUNTERTOP, SELF-RIMMING	1 1/2"	1 1/2"	1/2"	-	-	FIGURE: A.S. 0478.028 "AQUALYN" P-RAP: MCGUIRE 255A P-RAP: MCGUIRE 8902 1 1/2" x 1 1/2" STOPS: MCGUIRE 175	PROVIDE INSULATION KIT FOR EXPOSED TRIM. PROVIDE "AV-COLOR" OR APPROVED EQUAL.
P-3	LAUNDRY, A.D.A. 20" x 17" OVAL COUNTERTOP, SELF-RIMMING	1 1/2"	1 1/2"	1/2"	-	-	FIGURE: A.S. 0355.012 "LUCERNE" P-RAP: MCGUIRE 8902 1 1/2" x 1 1/2" STOPS: MCGUIRE 175	PROVIDE INSULATION KIT FOR EXPOSED TRIM. PROVIDE "AV-COLOR" OR APPROVED EQUAL.
P-4	SHOWER, A.D.A. 36"x36" GELCOATED ACRYLIC W/ SEAT & GRAB BARS AND ANTI SLIP SHOWER VALVE AND HAND SHOWER WITH HINGED AND DIVERTER VALVE	2"	1 1/2"	1/2"	-	-	FIGURE: ACRYLIC MODEL: A3636-ADA-36" HEAD: ZURN Z7000-17-AB VALVE/DIVERTER/HAND: ZURN Z7121-DV-HW P-RAP: MCGUIRE 8902 1 1/2" x 1 1/2" STOPS: MCGUIRE 175	PROVIDE INSULATION KIT FOR EXPOSED TRIM. PROVIDE "AV-COLOR" OR APPROVED EQUAL.
P-5	STAINLESS STEEL SINK, A.D.A. 33" x 22" (1 3/8" x 16" BOWLS) 3 HOLE DRILLING 18 GAUGE STAINLESS	1 1/2"	1 1/2"	1/2"	-	-	FIGURE: ELKAY 18-3322-60-4 P-FALCET: DELTA 172-WF P-RAP: MCGUIRE 8912 1 1/2" x 1 1/2" STOPS: MCGUIRE 175	
P-6	STAINLESS STEEL SINK, A.D.A. DECON ROOM 62" x 27" (24" x 14" BOWLS)	1 1/2"	1 1/2"	1/2"	-	-	FIGURE: ELKAY SSC-8200UR-162414-6-62LR DRANK: ELKAY 14-188 P-FALCET: DELTA 172-WF P-RAP: MCGUIRE 8902 1 1/2" x 1 1/2" STOPS: MCGUIRE 175	
P-7	UTILITY CONNECTION BOX (REFRIGERATOR ICEMAKERS)	-	-	-	-	-	FIGURE: GUY GRAY BM875 FINISH: EPOXY	COORDINATE FINISH WITH ARCHITECT
P-8	ELECTRIC WATER COOLER, A.D.A. SURFACE MOUNTED, SPLIT LEVEL, STEEL CABINET, STAINLESS FINISH	1 1/2"	1 1/2"	1/2"	-	-	FIGURE: HANS HMB848SS P-RAP: MCGUIRE 8902 1 1/2" x 1 1/2" STOPS: MCGUIRE 175	
P-9	EMERGENCY EGRESS/SHOWER W/ FEND WATER BLENDING SYSTEM PROTECTIVE CABINET	1 1/2"	1 1/2"	1/2"	-	-	FIGURE: HANS 8200 BLENDING SYSTEM: HANS TMS5SH CABINET: HANS TMS5CB FINISH: EPOXY	
P-10	UTILITY CONNECTION BOX (WASHING MACHINE)	2"	1 1/2"	1/2"	-	-	FIGURE: GUY GRAY B-150 FINISH: EPOXY	
P-11	MOP SINK MOP SINK 30" x 24" 1/2" BUMPERS EDWARDS	3"	1 1/2"	1/2"	-	-	BASIN: FLORESTONE MSR-2424 DRANK: FLORESTONE MSR-2424 ACCESSORIES: MR-372 HOSE & BRACKET ACCESSORIES: MR-373 BUMPERS/EDWARDS	
MV-1	MAKING VALVE RECESSED STAINLESS STEEL CABINET	-	-	-	-	-	EQUIPMENT: LOCHMARV EBN 150-85 INPORT: 150,000 BTUH RECOVER: 153 GRH @ 100' RISE.	
WH-1	WATER HEATER 65 GALLON TANK	-	-	-	-	-	EQUIPMENT: BELL AND GOSSETT N81-22U RECOVER: 153 GRH @ 100' RISE.	SEE FLOOR PLANS FOR FLOOR DRAIN SIZES
RD-1	RECYCLING PUMP FLOOR DRAIN CAST IRON BODY 6" ROUND	-	-	-	-	-	EQUIPMENT: BELL AND GOSSETT N81-22U RECOVER: 153 GRH @ 100' RISE.	SEE FLOOR PLANS FOR FLOOR DRAIN SIZES
FD-1	FLOOR DRAIN CAST IRON BODY 6" ROUND	-	-	-	-	-	DRANK: MIFAB FT100-15 STRAINER: NICKEL BRONZE	SEE FLOOR PLANS FOR FLOOR DRAIN SIZES
HB-1	HOSE BIBB CAST IRON HANDLE	-	-	-	-	-	FIGURE: MIFAB H9130 FINISH: POLISHED CHROME	
HB-2	HOSE BIBB FREEZE PROOF	-	-	-	-	-	FIGURE: MIFAB H9100 FINISH: POLISHED CHROME	
YCO	FLOOR CLEANOUT, ADJUSTABLE NO-HUB CONNECTION CAST IRON BODY SOFT-STARTED PP	4"	-	-	-	-	CLEANOUT: SMITH 4250 18" L x 18" W x 6" D CONCRETE PAD.	
F.CO.	FLOOR CLEANOUT, ADJUSTABLE NO-HUB CONNECTION GAS/WATER TIGHT ABS PLUG SCRAWLED TOP	-	-	-	-	-	CLEANOUT: MIFAB C100 FINISH: POLISHED NICKEL BRONZE	

**Project No. 999**  
 Date: 8-01-02  
 Drawn: J. FORD  
 Checked: B. FORD  
 Revisions:

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**RENOVATIONS AND ADDITIONS FOR THE NEW PUBLIC SAFETY BUILDING**  
 Pine Knoll Shores, North Carolina

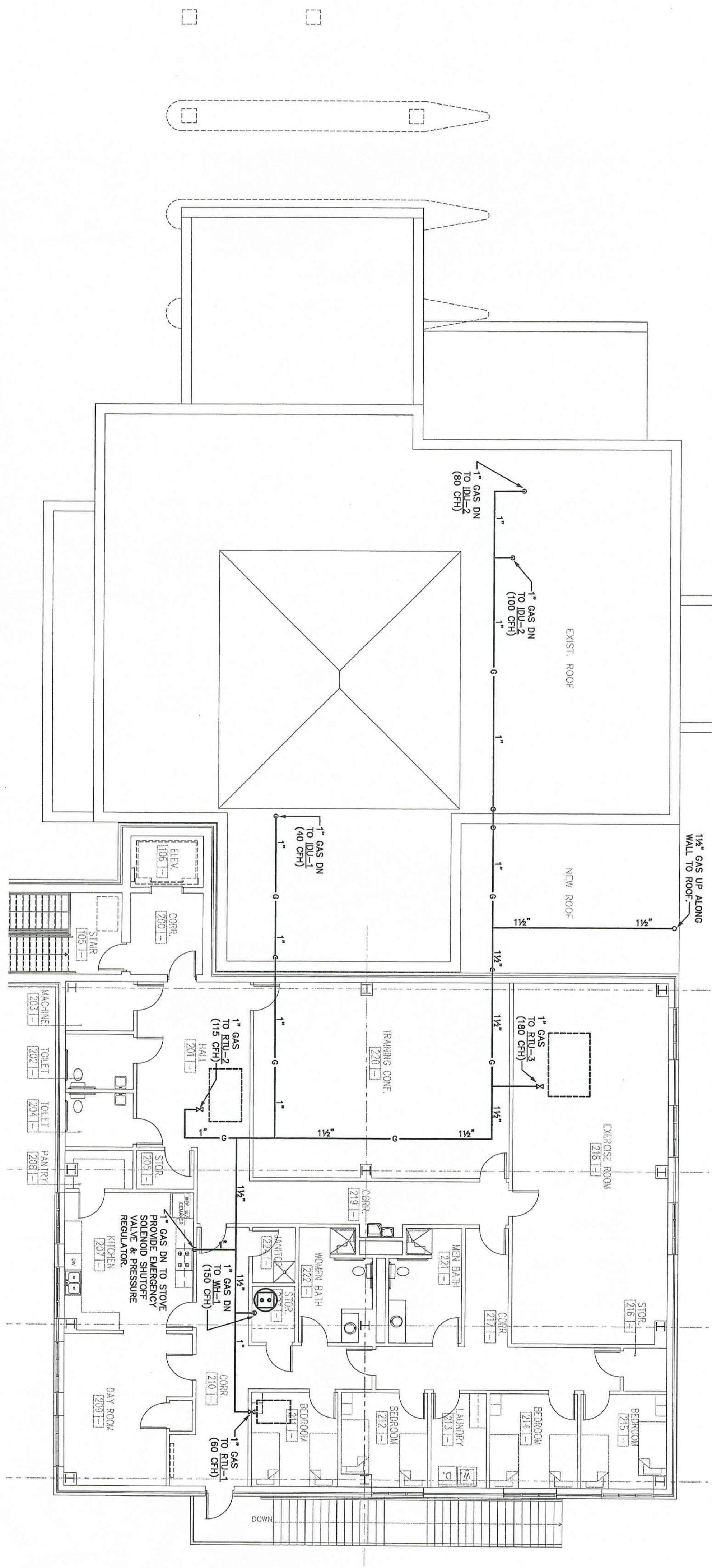
**SCHEDULE, NOTES, AND DETAILS PLUMBING**

sheet **8.00** OF 4  
 OPTIMA # 02249

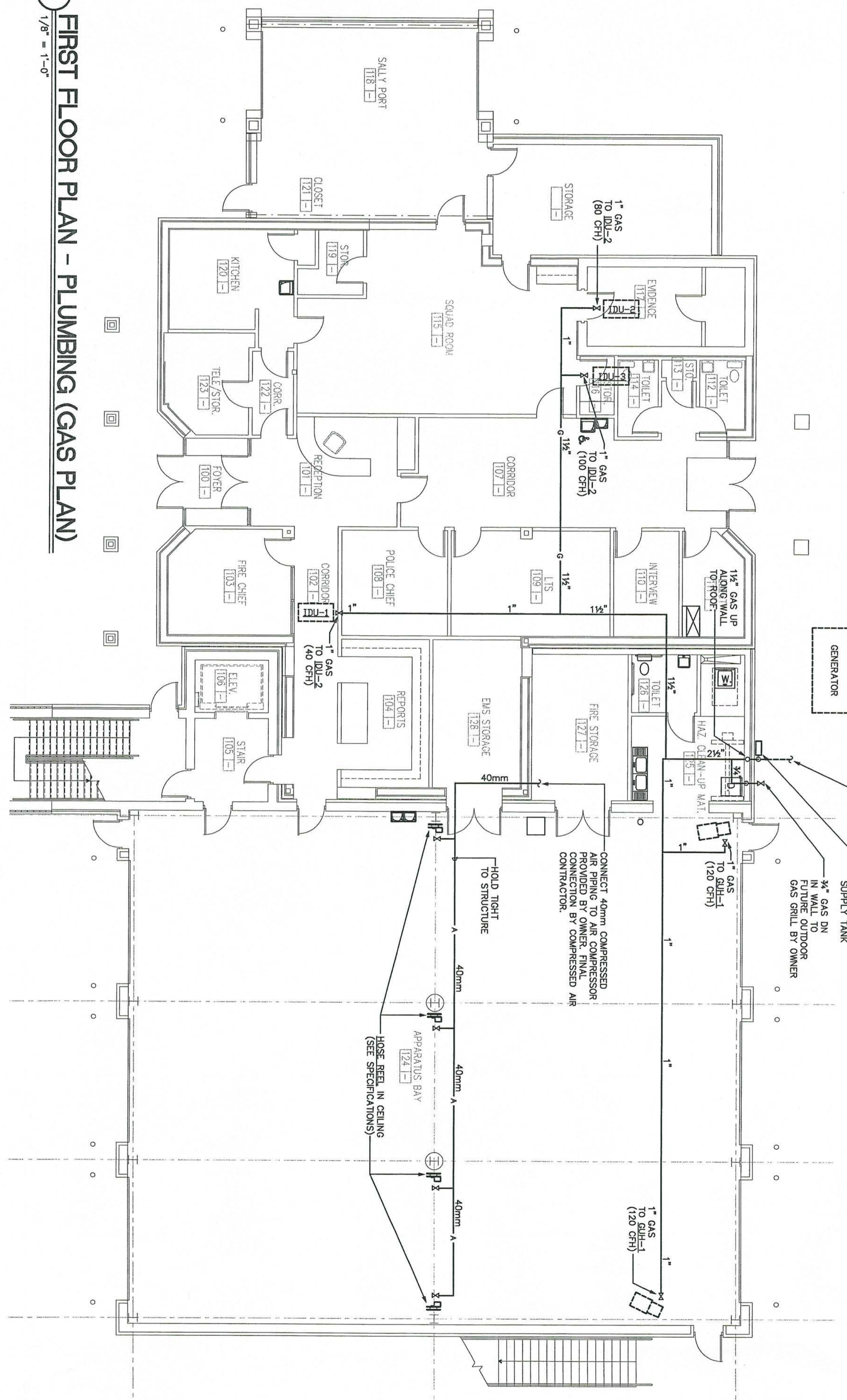








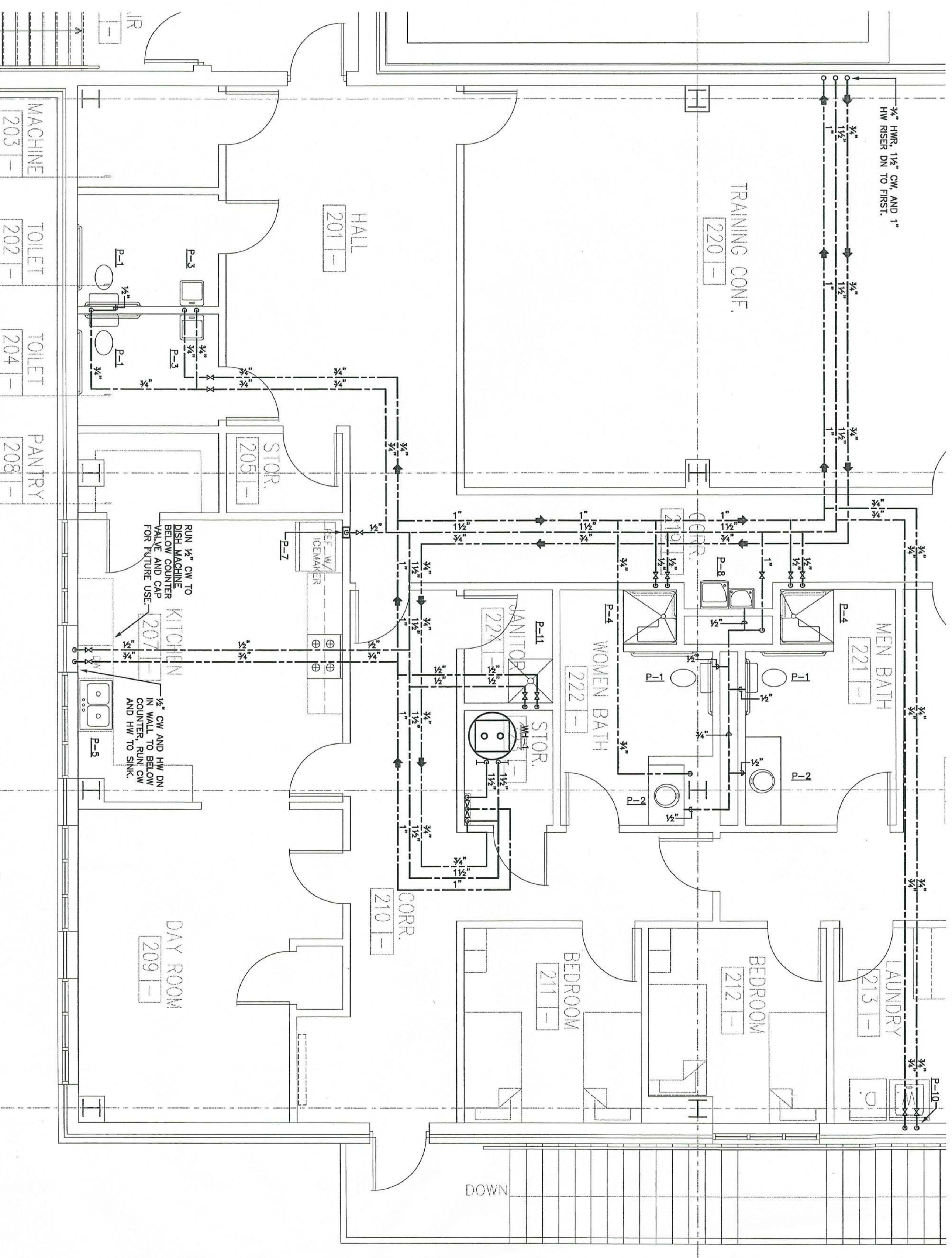
**2 SECOND FLOOR PLAN - PLUMBING (GAS PLAN)**  
1/8" = 1'-0"



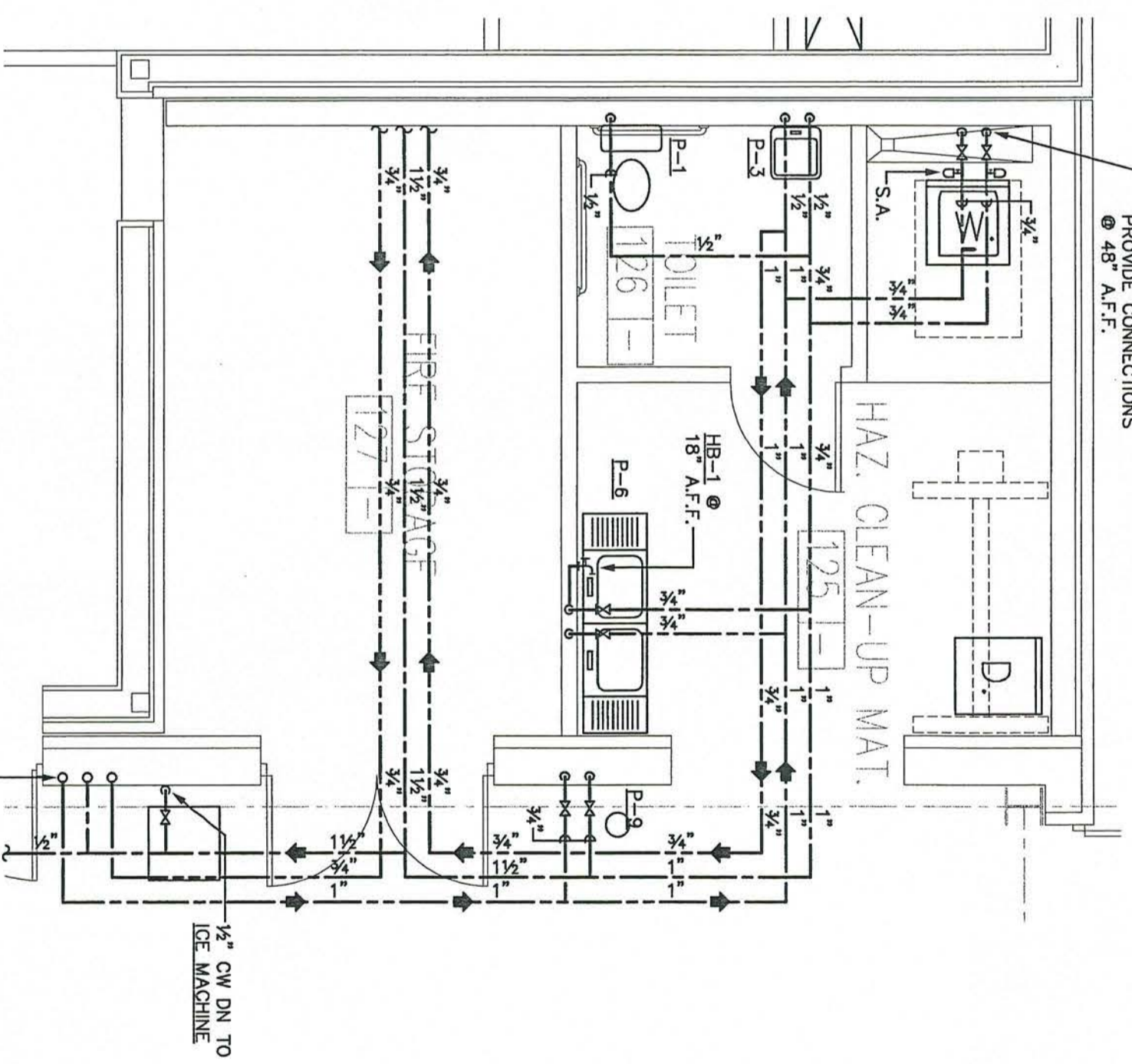
**1 FIRST FLOOR PLAN - PLUMBING (GAS PLAN)**  
1/8" = 1'-0"

<b>Project No.</b> 999	<b>Date</b> 8-04-02 <b>Drawn</b> J. FORD <b>Checked</b> B. FORD <b>Revisions</b>	<b>OPTIMA ENGINEERING, P.A.</b> 1300 SOUTH MINT STREET SUITE 100 CHARLOTTE, N.C. 28203 (704) 338-1292 FAX (704) 338-9974	<b>Stewart · Cooper · Newell · Architects</b> Planning    Architecture    Interiors 719 east second ave. gastonia, nc 28054 phone 704.895.6311 fax 704.895.0049 2016 summer st. ste.202 columbia, nc 28201 phone 803.765-6011 fax 803.765-2011 www.scn-architects.com		<b>RENOVATIONS AND ADDITIONS FOR THE NEW PUBLIC SAFETY BUILDING</b> Pine Knoll Shores, North Carolina <b>FLOOR PLANS</b> <b>PLUMBING</b> sheet 8.11 OF 4 OPTIMA # 02249
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**2** PARTIAL FLOOR PLAN - PLUMBING (WATER SUPPLY)  
 1/4" = 1'-0" ALTERNATE A-3  
 CW AND HW DN TO WASHING MACHINE  
 PROVIDE CONNECTIONS @ 48" A.F.F.



**1** PARTIAL FLOOR PLAN - PLUMBING (WATER SUPPLY)  
 1/4" = 1'-0"

Project No.  
**999**

Date  
8-01-02  
 Drawn  
**J. FORD**  
 Checked  
**B. FORD**  
 Revisions

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RENOVATIONS AND ADDITIONS FOR THE  
**NEW PUBLIC SAFETY BUILDING**  
 Pine Knoll Shores, North Carolina  
**FLOOR PLANS**  
**PLUMBING**  
 sheet **8.20**  
 OF 4  
 OPTIMA # 02249







Project No. **999**  
 Date **8-21-02**  
 Drawn **BLF**  
 Checked **BLF**  
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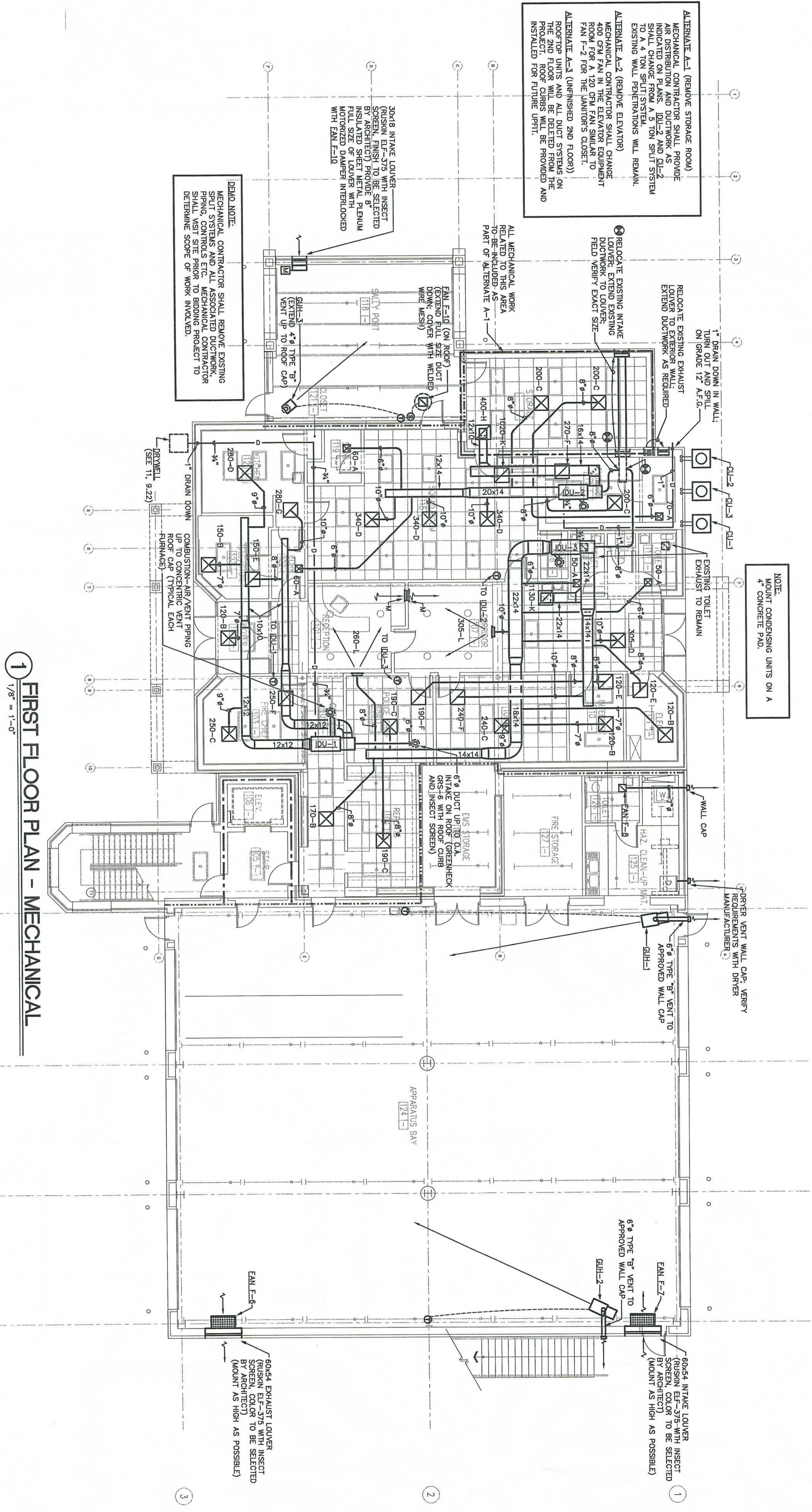
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RENOVATIONS AND ADDITIONS FOR THE  
**NEW PUBLIC SAFETY BUILDING**  
 Pine Knoll Shores, North Carolina  
**MECHANICAL FIRST FLOOR PLAN**

sheet **9.11**  
 OF 4  
 OPTIMA # 02249



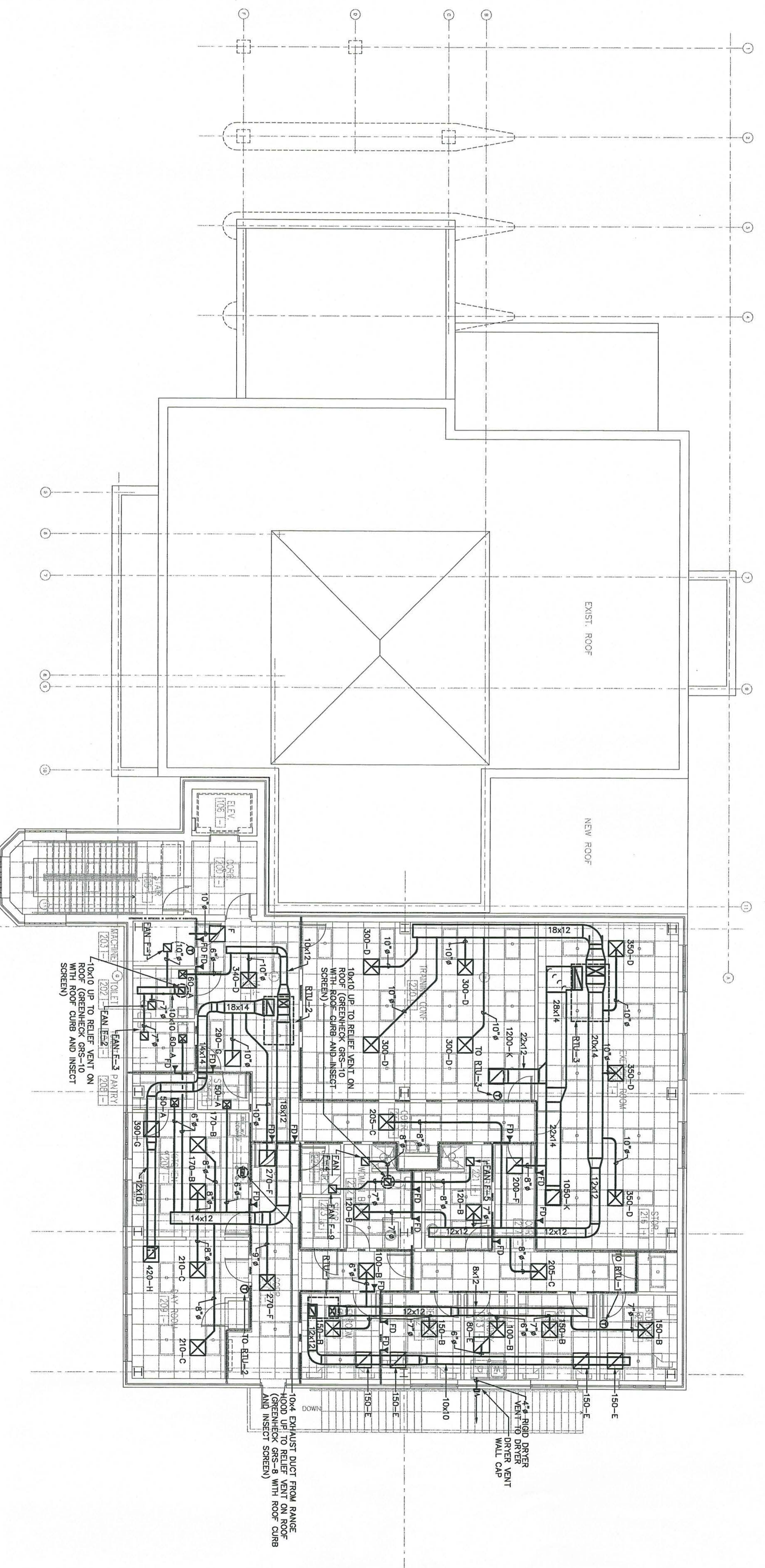
ALTERNATE A-1 (REMOVE STORAGE ROOM)  
 MECHANICAL CONTRACTOR SHALL PROVIDE  
 MECHANICAL SYSTEMS FOR THE STORAGE  
 ROOM ON PLANS DUC-2 AND Q1-2  
 SHALL CHANGE FROM A 5 TON SPLIT SYSTEM  
 TO A 4 TON SPLIT SYSTEM.  
 EXISTING WALL PENETRATIONS WILL REMAIN.  
 ALTERNATE A-2 (REMODE ELEVATOR)  
 MECHANICAL CONTRACTOR SHALL CHANGE  
 400 CFM FAN IN THE ELEVATOR EQUIPMENT  
 ROOM FROM THE MANITORS' CLOSET TO  
 FAN #2 FOR THE MANITORS' CLOSET.  
 ALTERNATE A-3 (UNFINISHED 2ND FLOOR)  
 ROOF TOP PITS AND BE DIRECTED FROM THE  
 PROJECT. ROOF CURBS WILL BE PROVIDED AND  
 INSTALLED FOR FUTURE UPFIT.

DEMO NOTE:  
 MECHANICAL CONTRACTOR SHALL REMOVE EXISTING  
 PIPING SYSTEMS AND ALL MECHANICAL CONTRACTOR  
 SHALL VISIT SITE PRIOR TO BIDDING PROJECT TO  
 DETERMINE SCOPE OF WORK INVOLVED.

NOTE:  
 MOUNT CONDENSING UNITS ON A  
 4" CONCRETE PAD.

**1** FIRST FLOOR PLAN - MECHANICAL  
 1/8" = 1'-0"





1 SECOND FLOOR PLAN - MECHANICAL  
1/8" = 1'-0"

Project No.  
**999**

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8-01-02  
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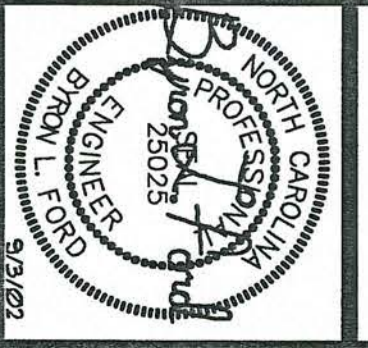
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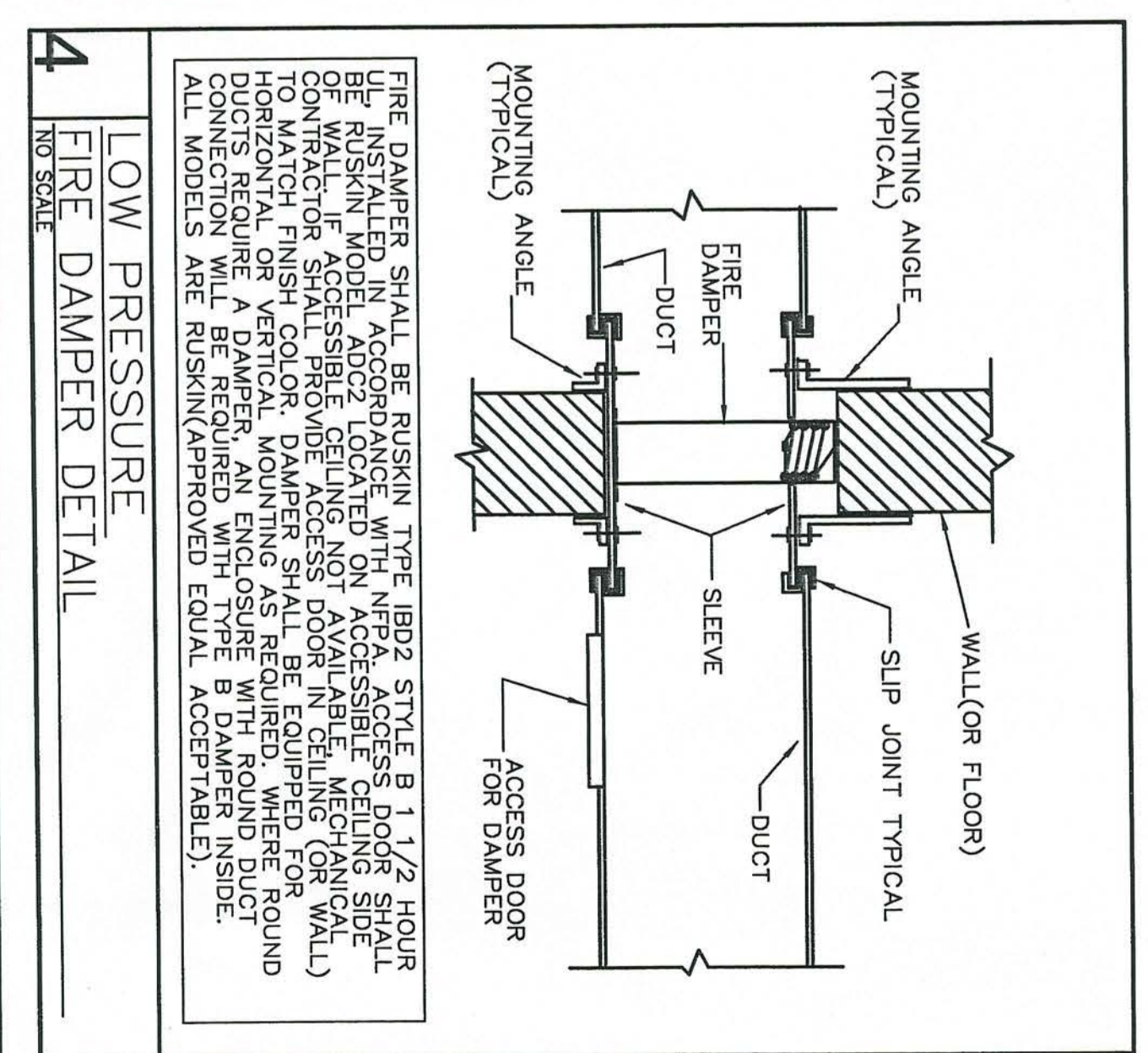


RENOVATIONS AND ADDITIONS FOR THE  
NEW PUBLIC SAFETY BUILDING  
Pine Knoll Shores, North Carolina

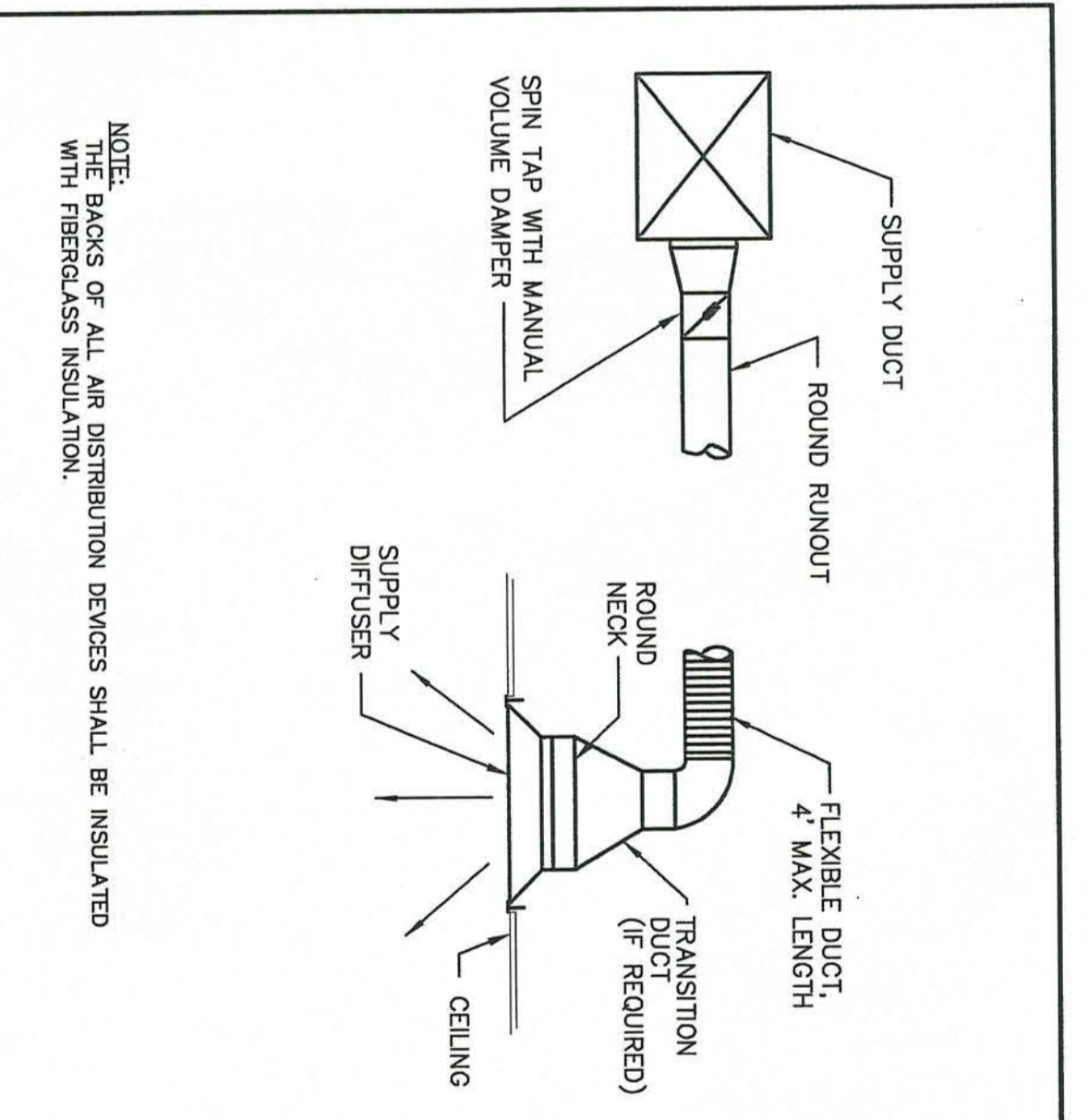
MECHANICAL  
SECOND FLOOR PLAN

sheet 9.12  
OF 4  
OPTIMA # 02249

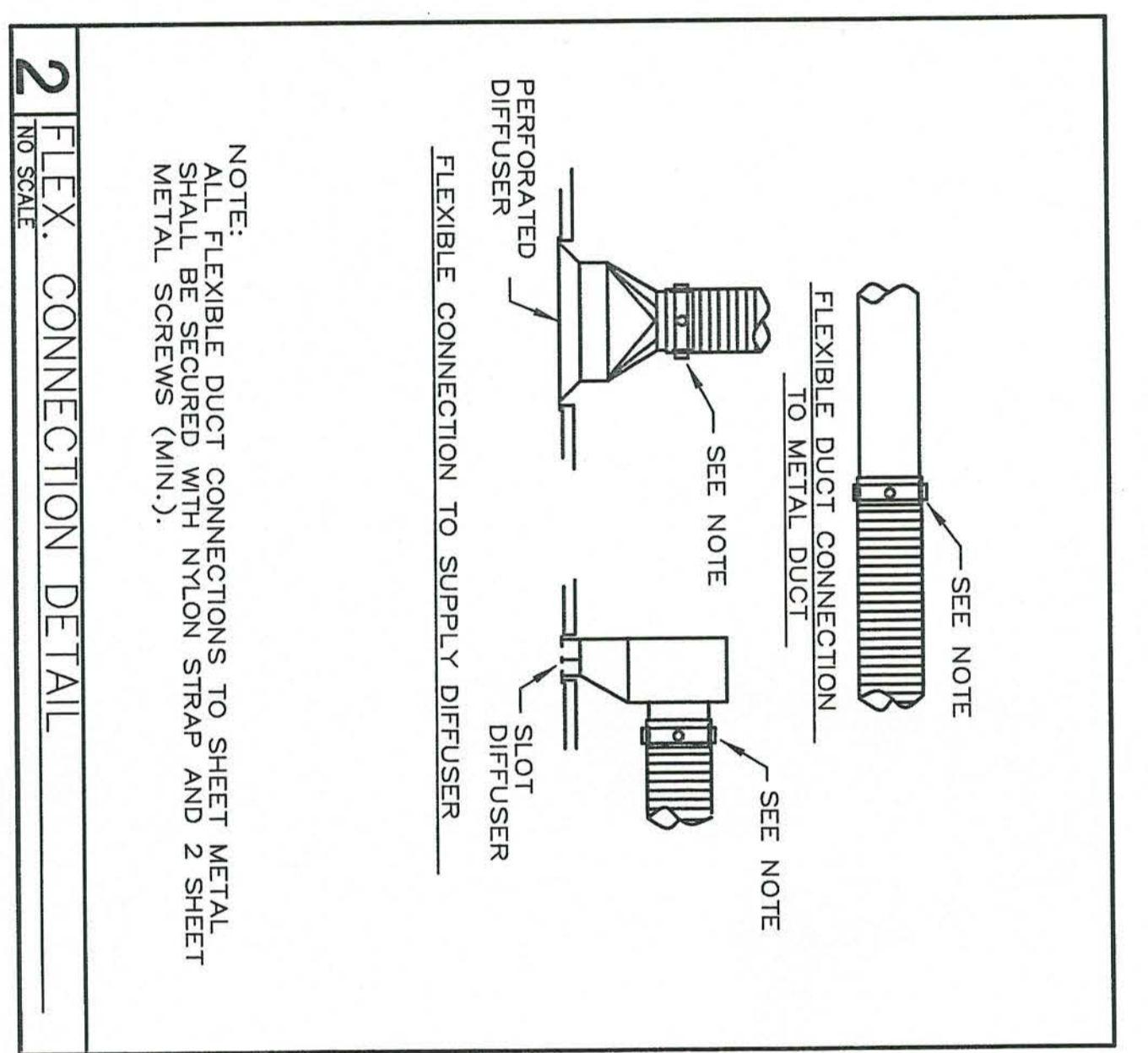




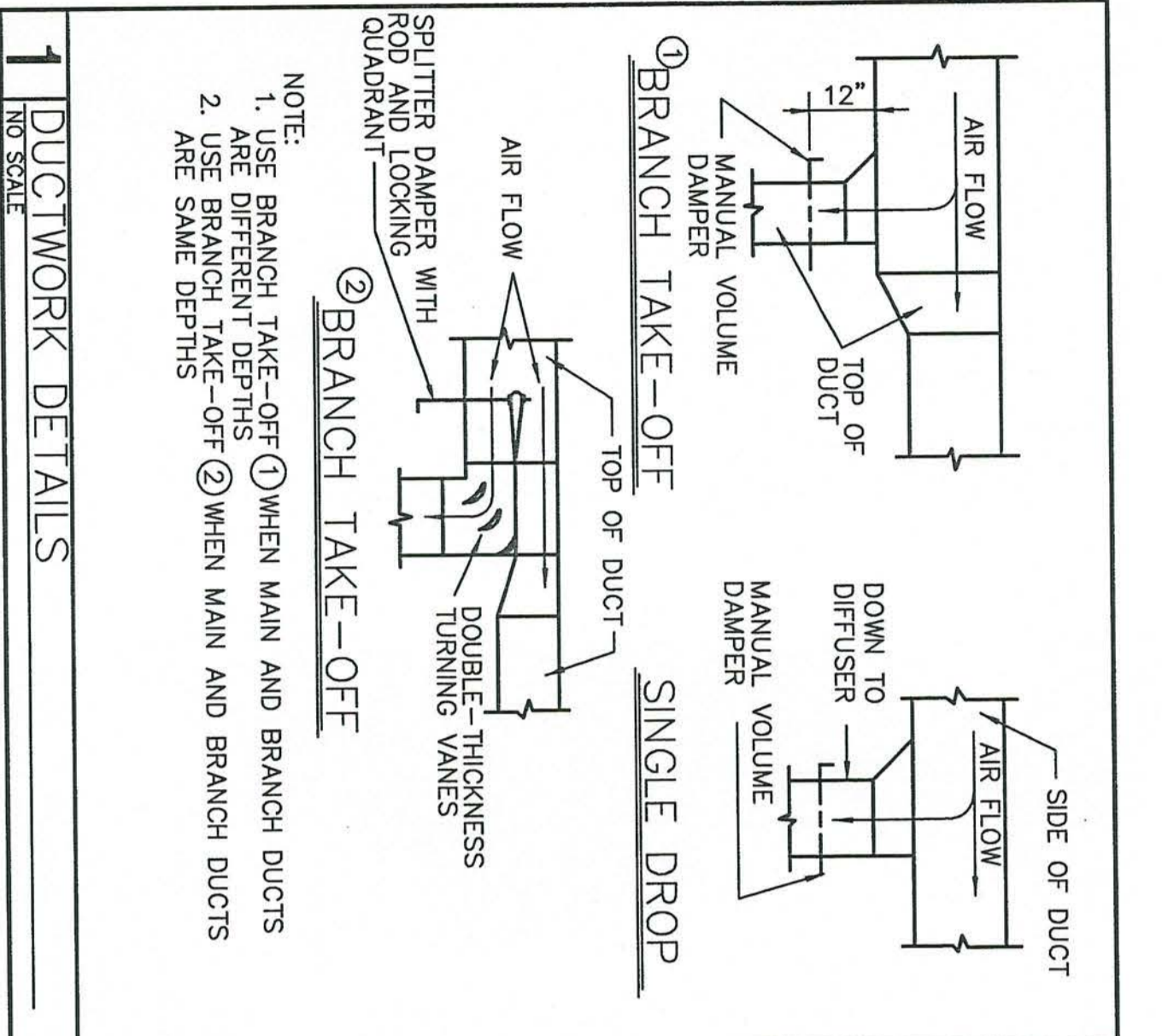
**4 FIRE DAMPER DETAIL**  
 NO SCALE



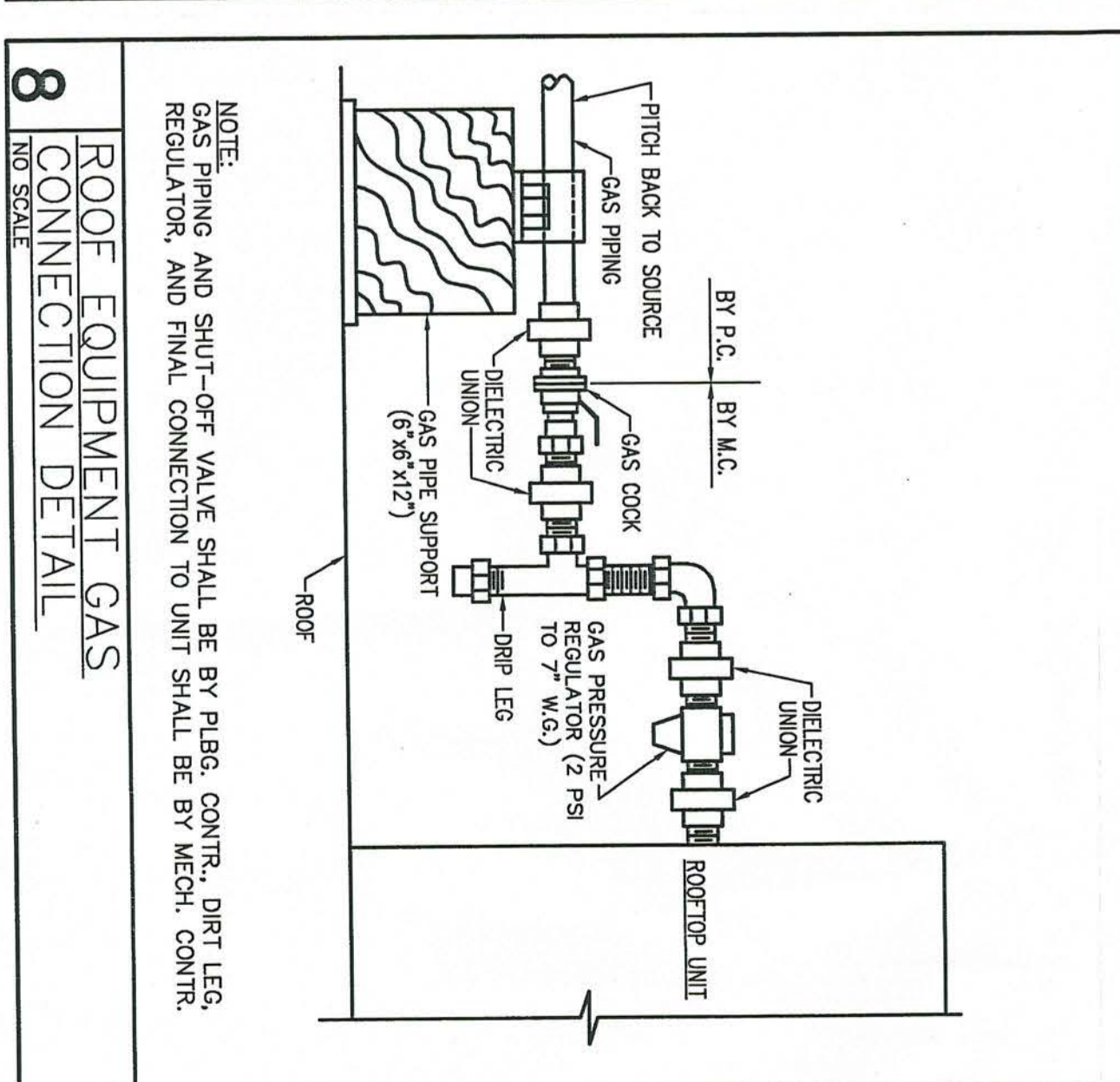
**3 SPIN TAP TO ROUND NECK TO DIFFUSER**  
 NO SCALE



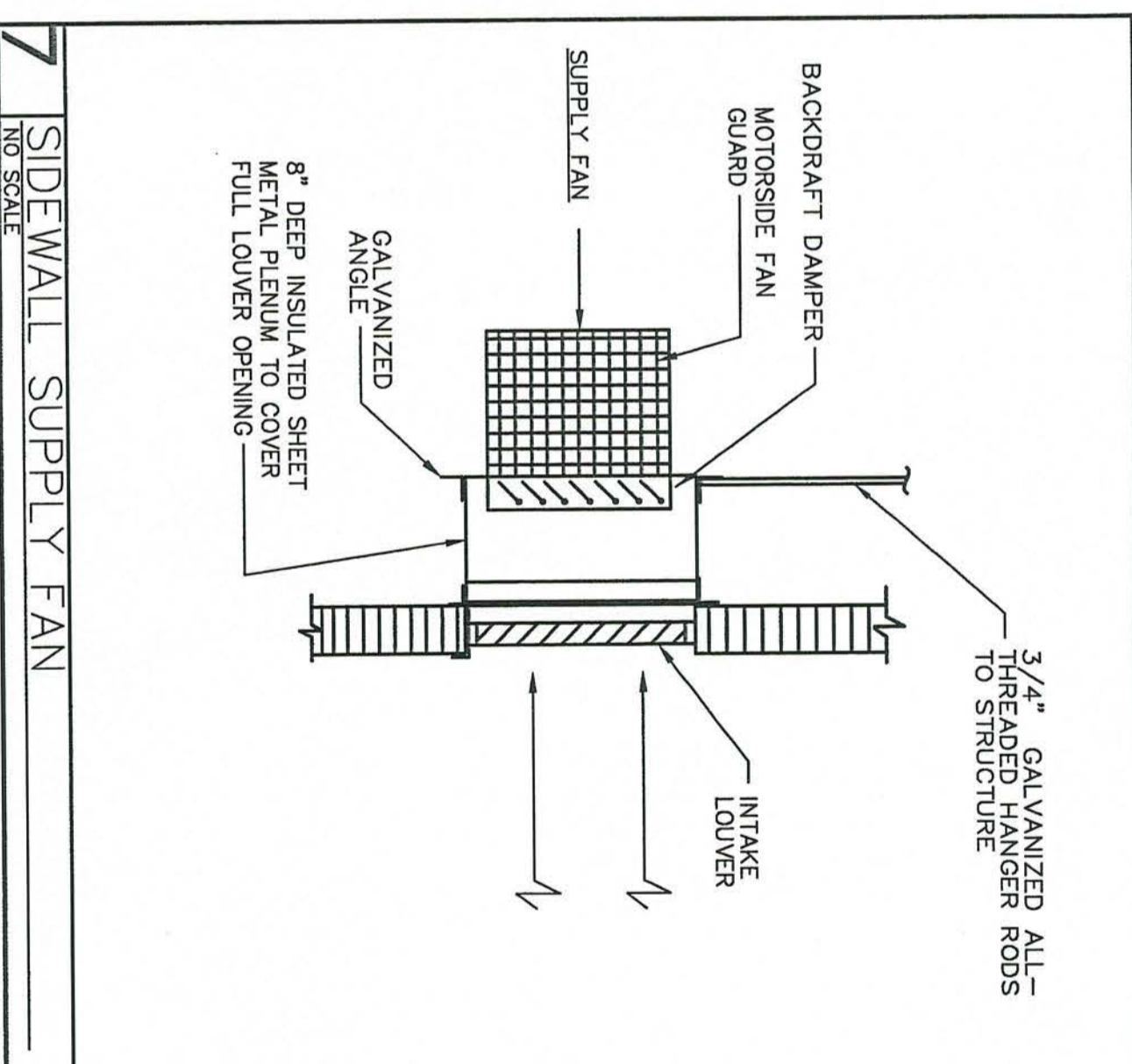
**2 FLEX. CONNECTION DETAIL**  
 NO SCALE



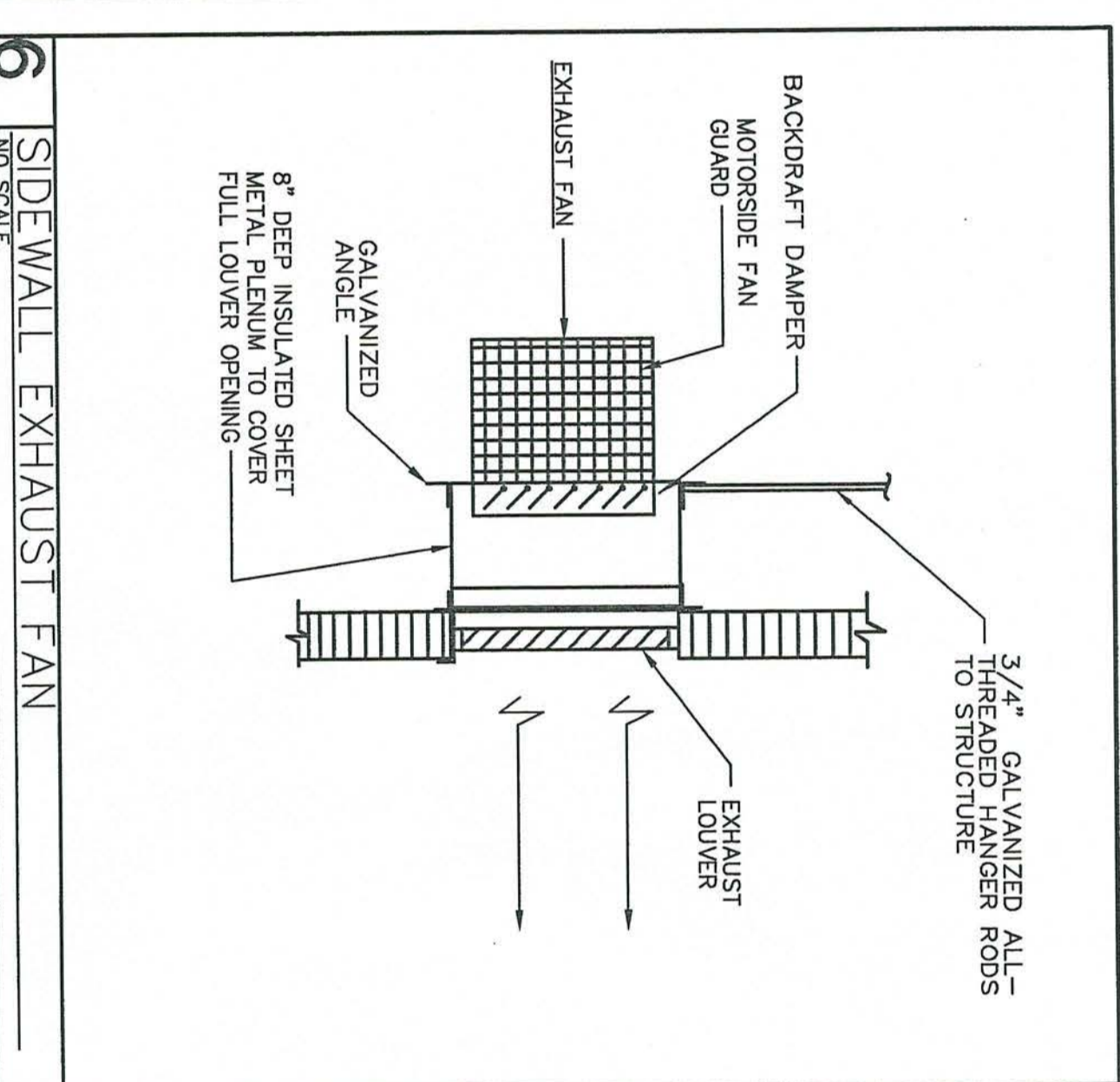
**1 DUCTWORK DETAILS**  
 NO SCALE



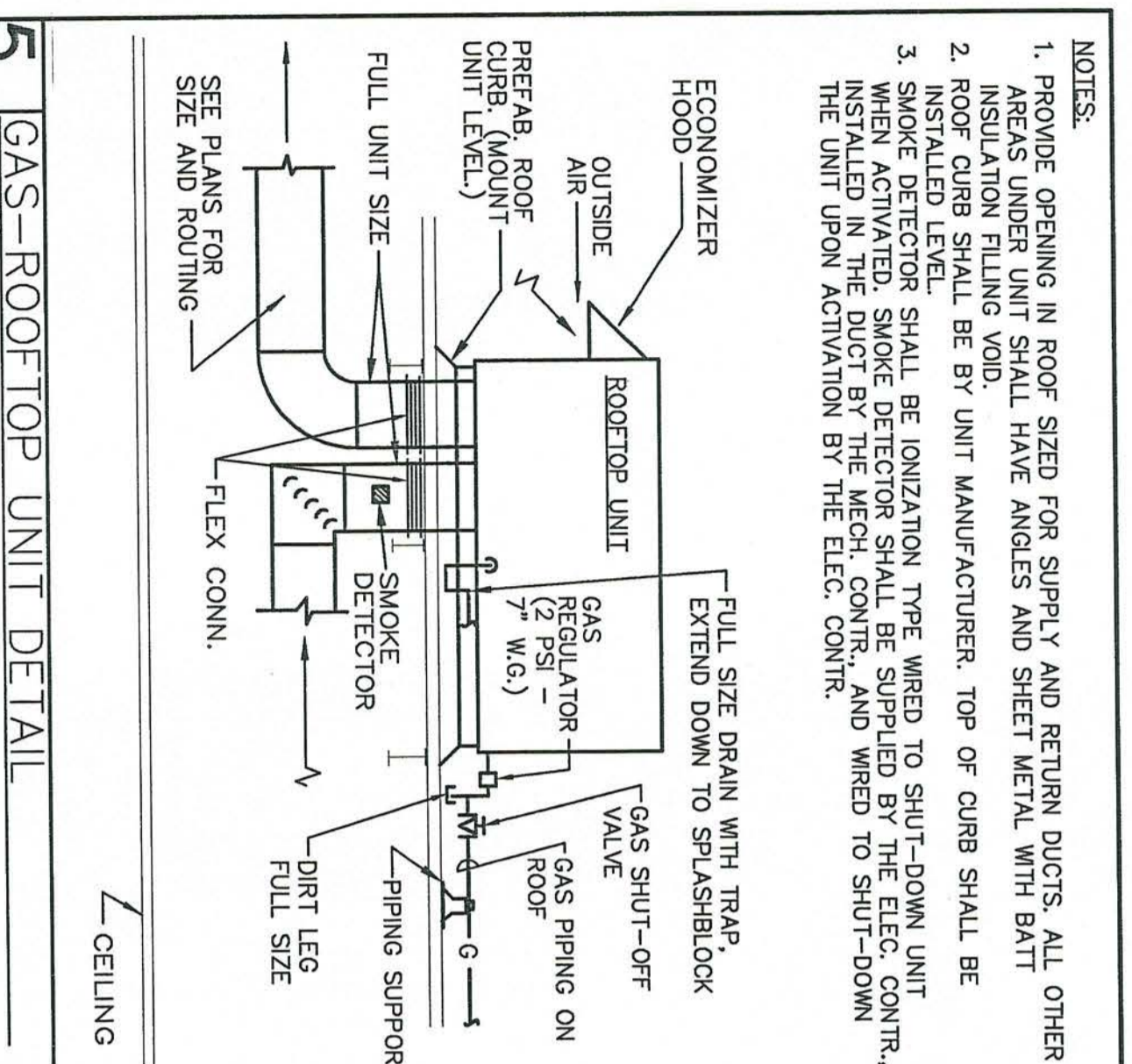
**8 ROOF EQUIPMENT GAS CONNECTION DETAIL**  
 NO SCALE



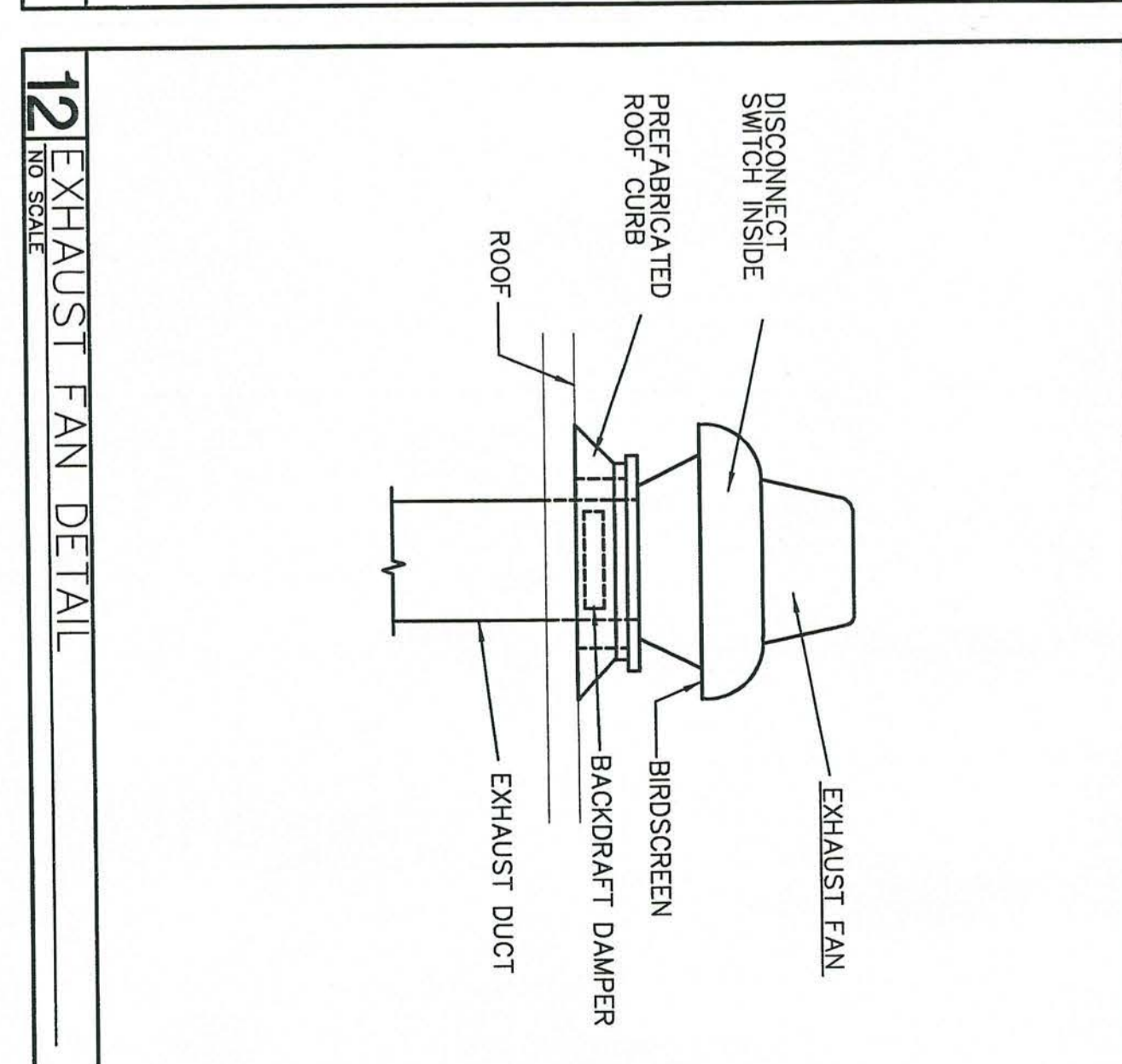
**7 SIDEWALL SUPPLY FAN**  
 NO SCALE



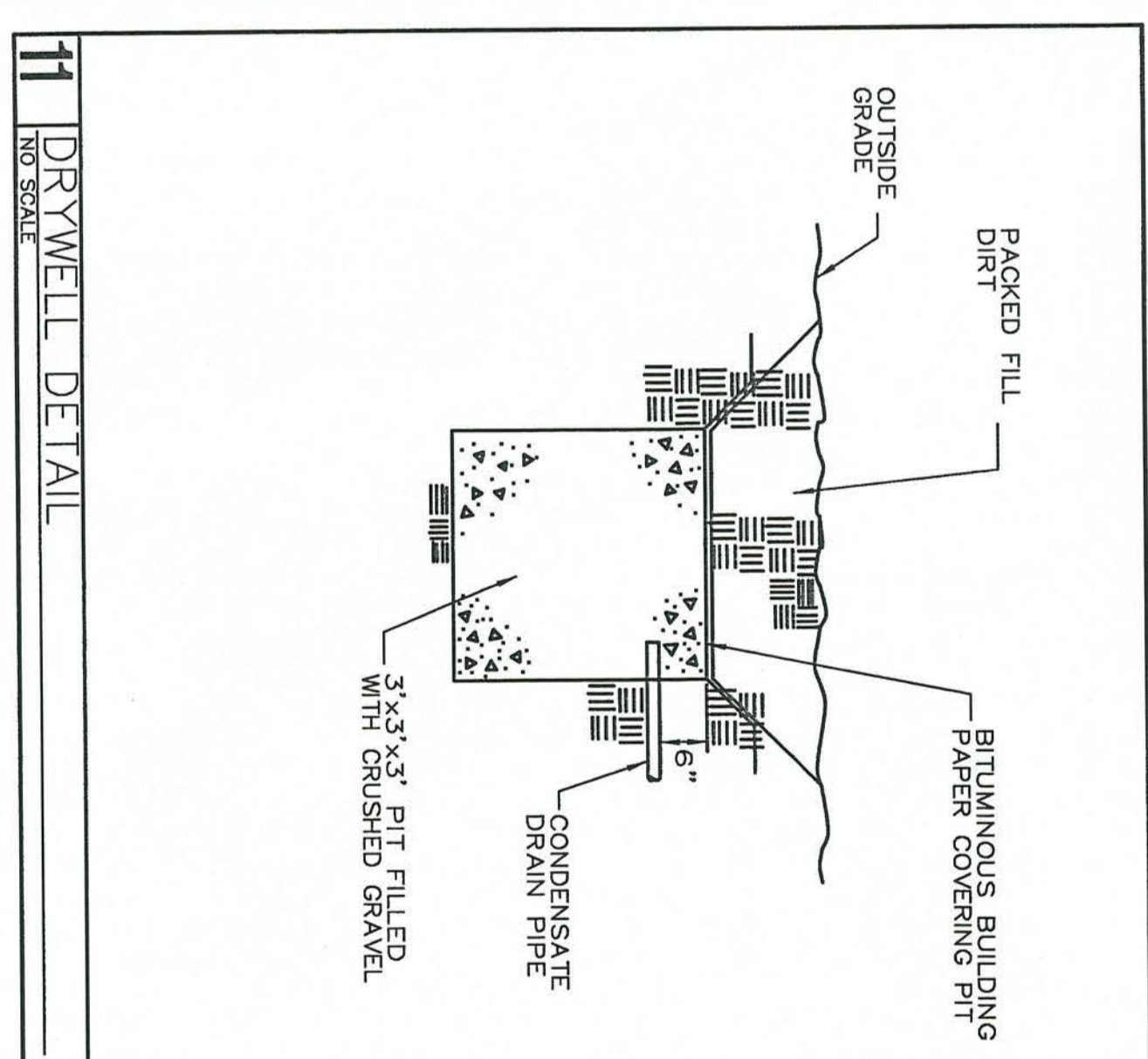
**6 SIDEWALL EXHAUST FAN**  
 NO SCALE



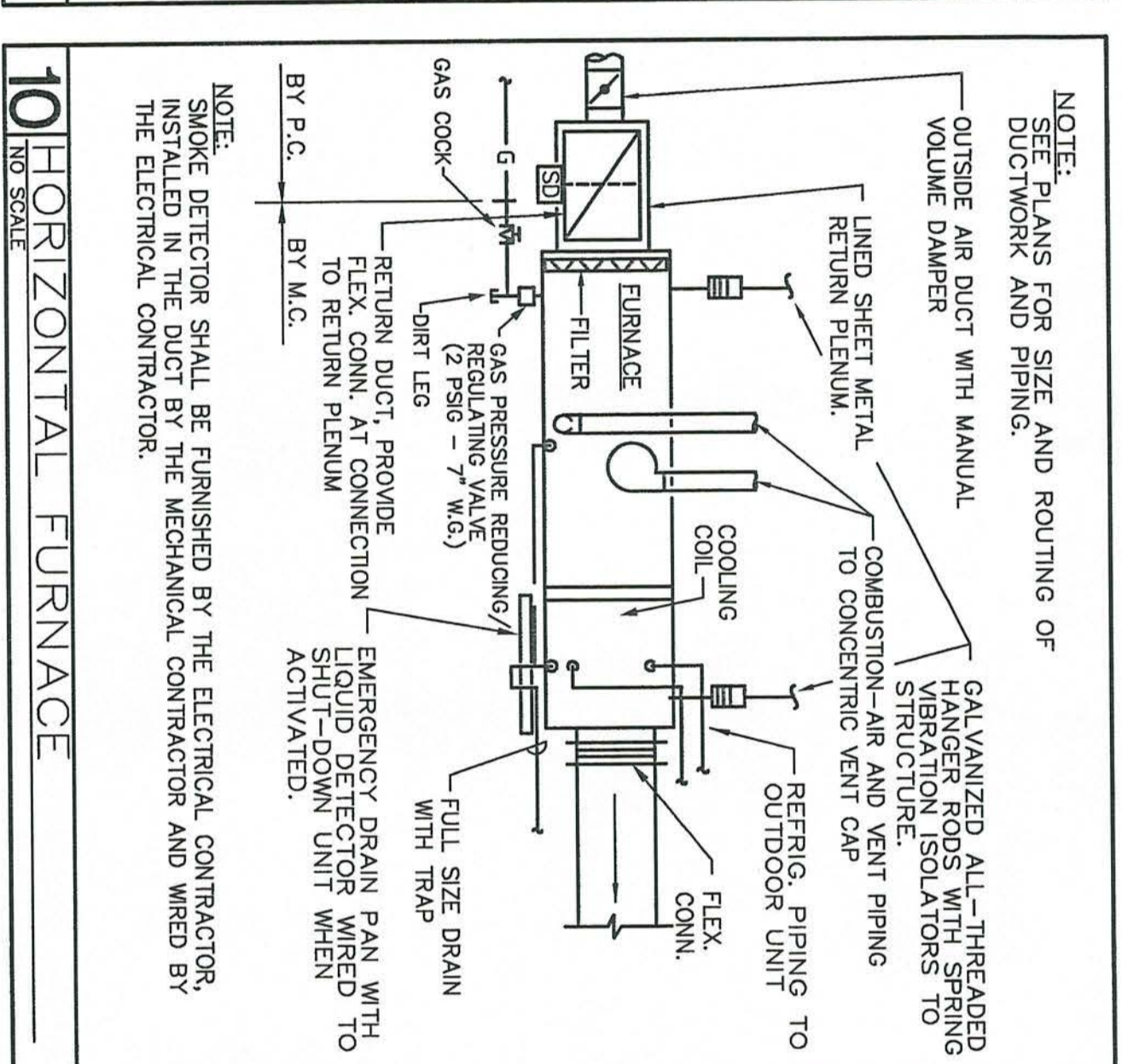
**5 GAS-ROOFTOP UNIT DETAIL**  
 NO SCALE



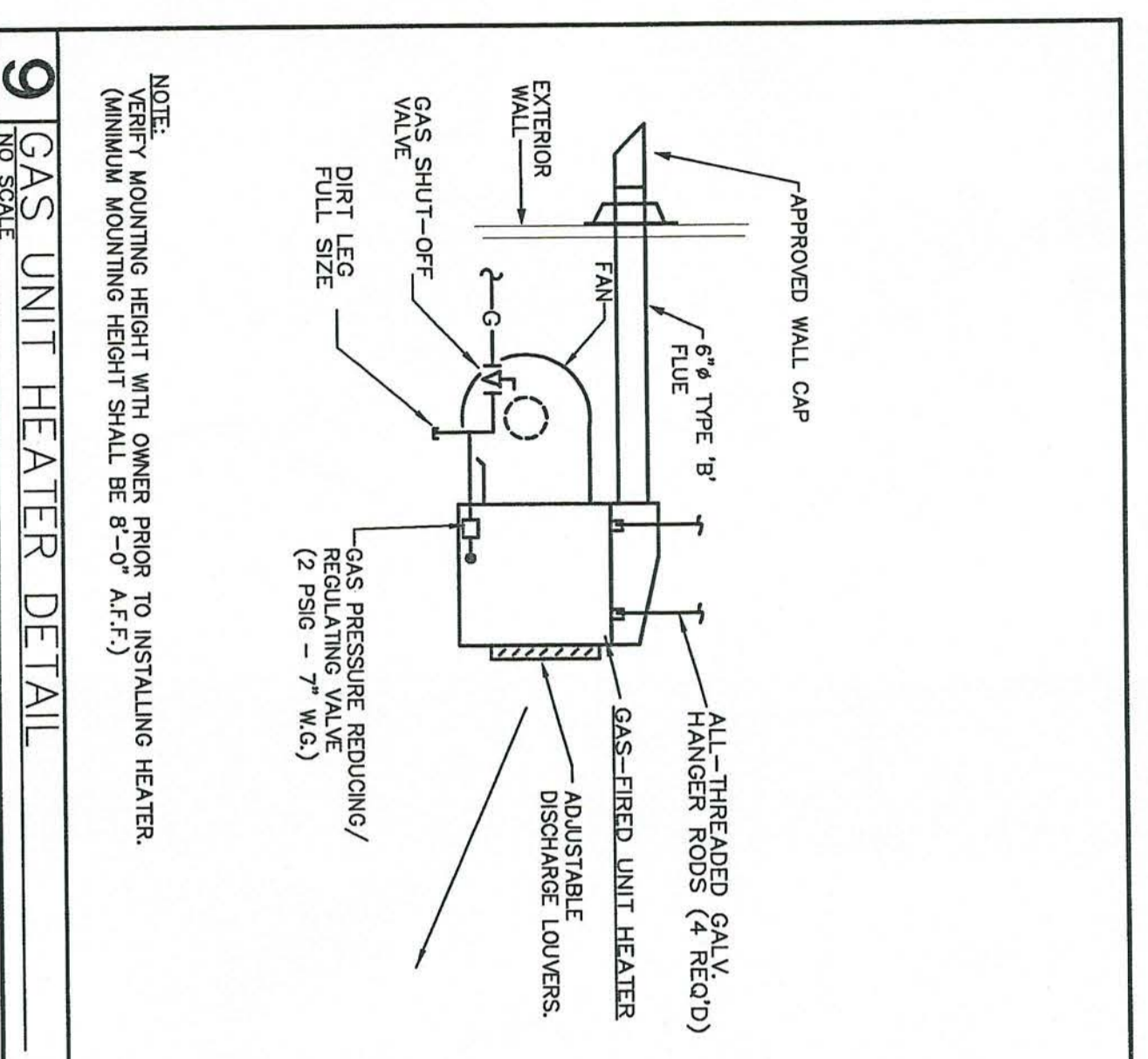
**12 EXHAUST FAN DETAIL**  
 NO SCALE



**11 DRYWELL DETAIL**  
 NO SCALE



**10 HORIZONTAL FURNACE**  
 NO SCALE



**9 GAS UNIT HEATER DETAIL**  
 NO SCALE

NOTES:  
 1. AREAS UNDER UNIT SHALL HAVE ANGLES AND SHEET METAL WITH BATT INSULATION FILLING VOID.  
 2. ROOF CURB SHALL BE BY UNIT MANUFACTURER. TOP OF CURB SHALL BE INSTALLED LEVEL.  
 3. SMOKE DETECTOR SHALL BE IONIZATION TYPE WIRED TO SHUT-DOWN UNIT WHEN ACTIVATED. SMOKE DETECTOR SHALL BE WIRED TO SHUT-DOWN THE UNIT UPON ACTIVATION BY THE ELEC. CONTR.

NOTES:  
 1. PROVIDE OPENING IN ROOF SIZED FOR SUPPLY AND RETURN DUCTS. ALL OTHER AREAS UNDER UNIT SHALL HAVE ANGLES AND SHEET METAL WITH BATT INSULATION FILLING VOID.  
 2. ROOF CURB SHALL BE BY UNIT MANUFACTURER. TOP OF CURB SHALL BE INSTALLED LEVEL.  
 3. SMOKE DETECTOR SHALL BE IONIZATION TYPE WIRED TO SHUT-DOWN UNIT WHEN ACTIVATED. SMOKE DETECTOR SHALL BE WIRED TO SHUT-DOWN THE UNIT UPON ACTIVATION BY THE ELEC. CONTR.

NOTE:  
 VERIFY MOUNTING HEIGHT WITH OWNER PRIOR TO INSTALLING HEATER.  
 MINIMUM MOUNTING HEIGHT SHALL BE 8'-0" A.F.F.

NOTE:  
 ALL FLEXIBLE DUCT CONNECTIONS TO SHEET METAL SHALL BE SECURED WITH NYLON STRAP AND 2 SHEET METAL SCREWS (MIN.)

NOTE:  
 SET PLANS FOR SIZE AND ROUTING OF DUCTWORK AND PIPING.

NOTE:  
 SMOKE DETECTOR SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR, INSTALLED IN THE DUCT BY THE MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.

NOTE:  
 THE BACKS OF ALL AIR DISTRIBUTION DEVICES SHALL BE INSULATED WITH FIBERGLASS INSULATION.

NOTE:  
 SET PLANS FOR SIZE AND ROUTING OF DUCTWORK AND PIPING.

NOTE:  
 SMOKE DETECTOR SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR, INSTALLED IN THE DUCT BY THE MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.



**SYMBOL SCHEDULE**

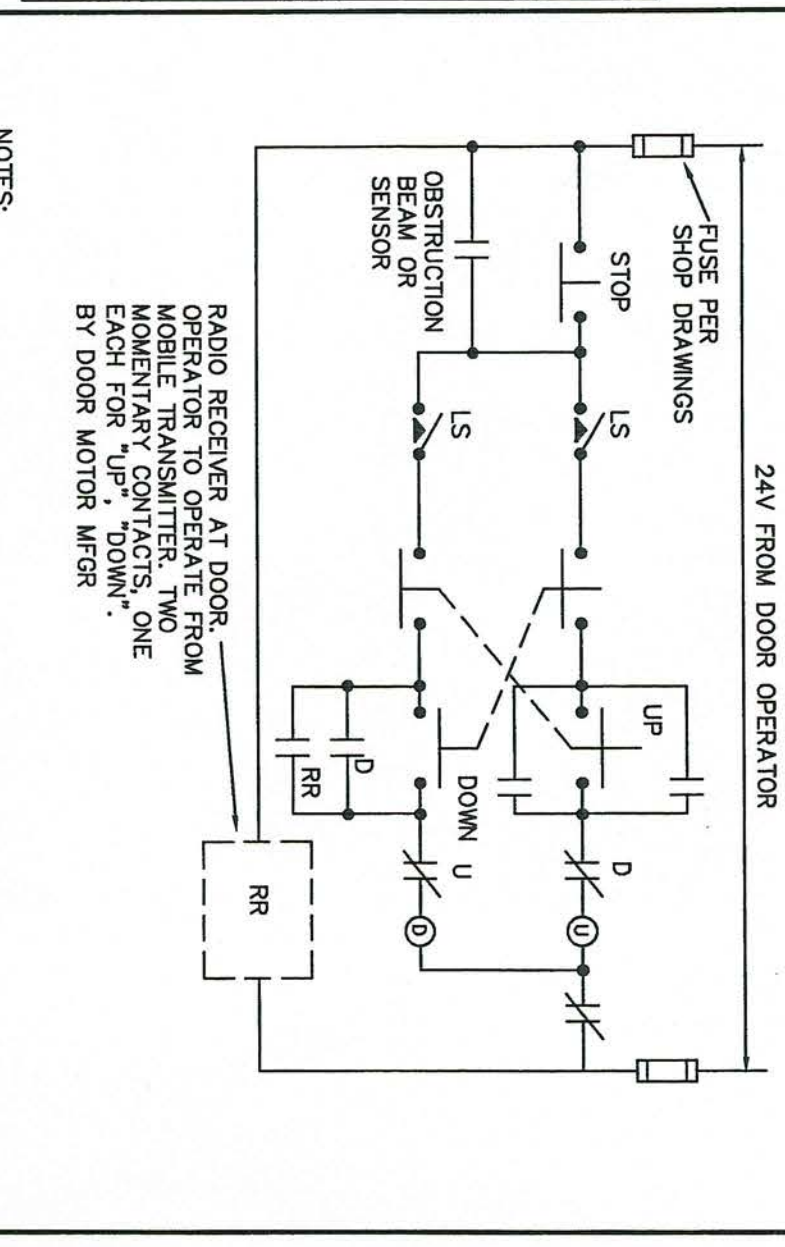
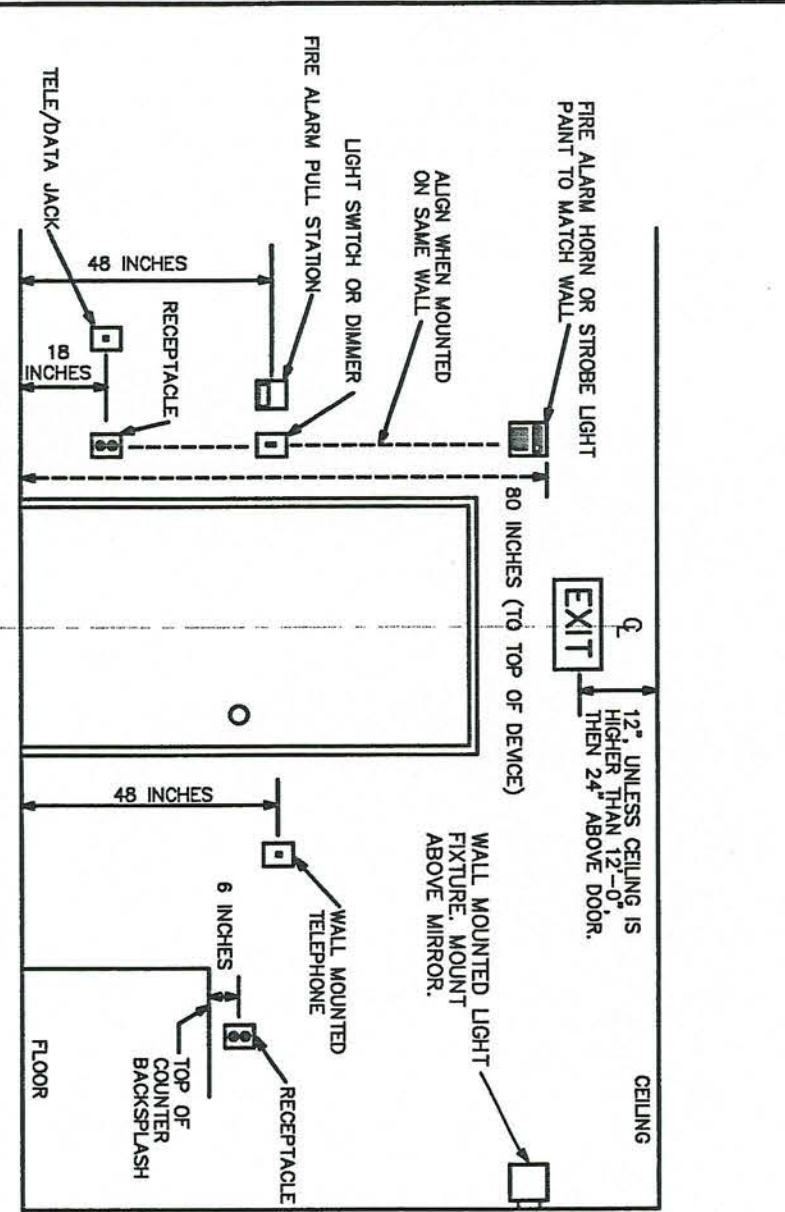
<p>WIRING SYSTEM CONCEALED IN WALL OR CEILING. GROSS LINES INDICATE NUMBER OF WIRES. NO CROSS LINES INDICATES TWO WIRES. (GROUND WIRES ARE NOT SHOWN)</p> <p>CONDUIT TURNED UP TO FLOOR ABOVE.</p> <p>CONDUIT TURNED DOWN TO FLOOR BELOW.</p> <p>BRANCH CIRCUIT HOOKUP TO PANEL.</p> <p>JUNCTION BOX WITH CONNECTION TO EQUIPMENT SERVED.</p> <p>SINGLE POLE SWITCH, 20 AMP, 120/277 VOLT. HUBBELL 1221, OR EQUAL.</p> <p>DOUBLE POLE SWITCH, 20 AMP, 120/277 VOLT. HUBBELL 1222, OR EQUAL.</p> <p>THREE WAY SWITCH, 20 AMP, 120/277 VOLT. HUBBELL 1223, OR EQUAL.</p> <p>FOUR WAY SWITCH, 20 AMP, 120/277 VOLT. HUBBELL 1224, OR EQUAL.</p> <p>DIMMER SWITCH, 120V, LUTRON NT-SERIES, UNLESS OTHERWISE NOTED.</p> <p>PROVIDE DOUBLE GANG 4-BOX FOR EACH SEPARATE DIMMER.</p> <p>INDICATES TWO LEVEL SWITCHING, SWITCH OUTER TWO LAMPS OF FIXTURES TOGETHER AND THE INNER LAMP(S) TOGETHER.</p> <p>FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER.</p> <p>DUPLEX RECEPTACLE, 15 AMP, 120 VOLT (USE 20 AMP FOR SINGLE RECEPTACLE ON A CIRCUIT). HUBBELL 5522, OR EQUAL.</p> <p>DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER BACKSPASH, OR AT HEIGHT NOTED.</p> <p>QUAD RECEPTACLE TWO NEMA 5-15R DUPLEX RECEPTACLES.</p> <p>STANDARD NEMA 5-15R DUPLEX RECEPTACLE FOR ELECTRIC WATER COOLER. COORDINATE LOCATION WITH PLUMBING CONTRACTOR.</p> <p>GROUND FAULT RECEPTACLE. NEMA 5-15R DUPLEX.</p> <p>CIRCUIT BREAKER. NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.</p> <p>ISOLATED GROUND RECEPTACLE. NEMA 5-15R DUPLEX.</p> <p>WEATHERPROOF RECEPTACLE. NEMA 5-15R DUPLEX.</p> <p>RACO #901 OR EQUAL.</p> <p>TELE/DATA OUTLET, 3/4" x 5/8" TO ABOVE ACCESSIBLE CEILING WITH PULL STRING.</p> <p>TELE/DATA SQUARE BOX WITH A SINGLE-GANG OPENING AND PASTER RING.</p> <p>TELE/DATA OUTLET MOUNTED ABOVE COUNTER BACKSPASH, OR AT HEIGHT NOTED.</p> <p>NON-FUSED HEAVY DUTY DISCONNECT SWITCH. NUMERALS INDICATE RATING/POLE SIZE. NUMERALS INDICATE SWITCH OTHER THAN OTHERWISE NOTED.</p> <p>CIRCUIT BREAKER. NUMERALS INDICATE RATING. NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.</p> <p>PLYWOOD TELEPHONE BACKBOARD. SIZE AS INDICATED ON RISER.</p> <p>PANELBOARD. SEE SCHEDULE FOR MOUNTING, TOP OF PANEL AT 6'-6" AFF.</p> <p>WALL MOUNTED INCANDESCENT OR HALO LIGHTING FIXTURE. SEE FIXTURE SCHEDULE.</p>	<p>FLUORESCENT LIGHTING FIXTURE. SEE FIXTURE SCHEDULE.</p> <p>FLUORESCENT LIGHTING FIXTURE ON NIGHT LIGHT CIRCUIT.</p> <p>FLUORESCENT STRIP FIXTURE. SEE FIXTURE SCHEDULE.</p> <p>INCANDESCENT OR HALO LIGHTING FIXTURE. SEE FIXTURE SCHEDULE.</p> <p>CONNECTION TO MOTOR. STARTER PROVIDED BY OTHERS UNLESS OTHERWISE NOTED.</p> <p>DIMENSION INDICATES HEIGHT ABOVE FINISHED FLOOR AT WHICH CENTER OF DEVICE IS TO MOUNTED.</p> <p>+42" ABOVE FINISHED FLOOR.</p> <p>AFF</p> <p>3R</p> <p>NEMA 3R</p> <p>EMPTY CONDUIT WITH PULL WIRE.</p> <p>WEATHERPROOF</p> <p>EMERGENCY WALL PACK WITH BATTERY BACK-UP.</p> <p>EXIT LIGHT WITH ARROWS AND NUMBERS OF FACES AS INDICATED ON PLANS. SEE FIXTURE SCHEDULE.</p> <p>CAMERA OUTLET. MOUNT 6" BELOW CEILING. PROVIDE 1" TO ELECTRIC ROOM.</p> <p>MICROPHONE OUTLET. PROVIDE 1" TO ELECTRIC ROOM.</p> <p>FIRE ALARM MANUAL STATION.</p> <p>ADA COMPLIANT FIRE ALARM STROBE LIGHT, 15/75/94, UNLESS OTHERWISE NOTED.</p> <p>ADA COMPLIANT FIRE ALARM STROBE LIGHT, 15/75/94, UNLESS OTHERWISE NOTED.</p> <p>ADA COMPLIANT FIRE ALARM STROBE LIGHT, 15/75/94, UNLESS OTHERWISE NOTED.</p> <p>PULL MOUNTED SMOKE DETECTOR. FINISHED AND CONNECTED TO ELECTRICAL CONTRACTOR. INSTALLED BY MECHANICAL CONTRACTOR.</p> <p>FLUSH MOUNTED CEILING SPEAKER.</p> <p>SURFACE MOUNTED HORN.</p> <p>VOLUME CONTROL.</p> <p>CARBON MONOXIDE DETECTOR.</p> <p>CEILING MOUNTED HEAT DETECTOR.</p> <p>CABLE TV OUTLET. COORDINATE WITH CABLE COMPANY.</p>
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**LIGHT FIXTURE SCHEDULE**

MARK	DESCRIPTION	LAMPS	TOTAL FIXTURE WATTAGE	BALLASTS	VOLTAGE	MANUFACTURER	DETAILS
A	2x4 ACRYLIC LAMP FLUORESCENT.	3 - F30T/735 18" OPTION	89W	OSRAM SYLVANIA QUICKTRONIC 07KX32 BALLAST.	120V	METALUX 200-332-A125 LITHONIA 2828332-A12125 COLUMBIA 48524-3320-15-A12	0.75" THICK 6" ACRYLIC LENS. PROVIDE ELECTRONIC BALLASTS AS REQUIRED TO FACILITATE INBOARD/OUTBOARD SWITCHING.
B	2x4 18-GEL PARABOLIC LAMP FLUORESCENT.	3 - F30T/735 18" OPTION	89W	OSRAM SYLVANIA QUICKTRONIC 07KX32 BALLAST.	120V	LITHONIA 282-306-332-18LD COLUMBIA PA-243208-038-9 METALUX 282-332-18	3" HOLE DUE TO PARABOLIC BEAM. PROVIDE 3/8" DIA. LAMPS AROUND LAMP HOUSING. NOTE 4.
C	SURFACE MOUNTED 2x4	3 - F30T/735 18" OPTION	79W	OSRAM SYLVANIA QUICKTRONIC 07KX32 BALLAST. FACTOR SHALL BE 0.77	120V	WILLIAMS W32320-020-01 LITHONIA WS32320-020-01	SOLID METAL SIZES AND ACRYLIC PRISMATIC LENS IN HINGED AND LATCHED FRAME. WHITE BAKED ENAMEL FINISH. APPROVED FOR MOUNTING DIRECT TO GYS CEILING.
D	WALL PACK	175/6/1	200W	HIGH POWER FACTOR	120V	LITHONIA TMR715M	HORIZONTAL FLOOD SPREAD. ONE PIECE DIECAST FRAME. APPROVED FOR MOUNTING DIRECT TO GYS CEILING.
E	SHOWER LIGHT	CF280T/E/835	30W	OSRAM SYLVANIA QUICKTRONIC 07P128/22/45CF/18V BALLAST.	120V	LITHONIA LPT280T 7 RINDOL.	3" ACRYLIC LENS WITH 25" POLYCARBONATE OVERLAY. WHITE BAKED ENAMEL FINISH. WET LOCATION LABEL.
F	WALL MOUNTED FIXTURE	28W DIT	32W	ELECTRONIC	120V	LITHONIA WPC28DIT	MOUNT 7'-0" ABOVE LANDING
G	8FT STRIP	2-708/735	110W	ELECTRONIC BALLAST	120V	LITHONIA LA3818B-03TRN	
H	4 FT. FLUORESCENT STRIP	2-708/735 18" OPTION	51W	OSRAM SYLVANIA QUICKTRONIC 07KX32/LP BALLAST. FACTOR SHALL BE 0.77	120V	HUBBELL 07KX32-LP BALLAST. FACTOR SHALL BE 0.77. HUBBELL 07KX32-LP BALLAST. FACTOR SHALL BE 0.77. WILLIAMS WS32320-020-01	
K	WALL MTD MIRROR FIXTURE	2-701/735 18" OPTION	62W	ELECTRONIC	120V	LITHONIA WS32320-02TRN	
K2	WALL MTD MIRROR FIXTURE	2-701/735 18" OPTION	32W	ELECTRONIC	120V	LITHONIA WS217-03TRN	
L	2x4 ACRYLIC LAMP FLUORESCENT.	3 - F30T/735 18" OPTION	89W	OSRAM SYLVANIA QUICKTRONIC 07KX32 BALLAST.	120V	LITHONIA 2828332AL	0.75" THICK 6" ACRYLIC LENS WITH 25" POLYCARBONATE OVERLAY. WHITE BAKED ENAMEL FINISH.
0A	GROUND WELL LIGHT.	100W MH	120W	HIGH POWER FACTOR	120V	HYDREL W8710 100W SP OS	PROVIDE DRAINAGE PER RISER RECOMMENDATION. SPOT REFLECTOR AND GEAR SHIELD. COORDINATE EXACT LOCATION WITH SITE ARCHITECT. PROVIDE 1/4" MIN. CLEARANCE TO CEILING. PROVIDE 1/4" MIN. CLEARANCE TO CEILING. PROVIDE 1/4" MIN. CLEARANCE TO CEILING.
0B	GROUND MOUNTED FLOOD LIGHT	100W MH	120W	HIGH POWER FACTOR	120V	HIL A11-100H120-08 INFRARED P6100H120-08 GREENLEE S13-48-100-MH-8W	ALUMINUM HOUSING WITH A CONTINUOUS CYLINDER SHAPE. PROVIDE 1/4" MIN. CLEARANCE TO CEILING. PROVIDE 1/4" MIN. CLEARANCE TO CEILING. PROVIDE 1/4" MIN. CLEARANCE TO CEILING.
⊗	LED EXIT SIGN	LED	2.5W/FACE		120V	LITHONIA QUANTUM SERIES	THEMOPLASTIC HOUSING WITH SELF-CONTAINED PACK FOR 90MIN OPERATION. NICAD BATTERY. RED LETTERS. WHITE HOUSING.
⊠	EMERGENCY WALL PACK	2-8W	20W		120V	LITHONIA QUANTUM SERIES	THEMOPLASTIC HOUSING WITH SELF-CONTAINED POWER PACK FOR 90MIN OPERATION. NICAD BATTERY.

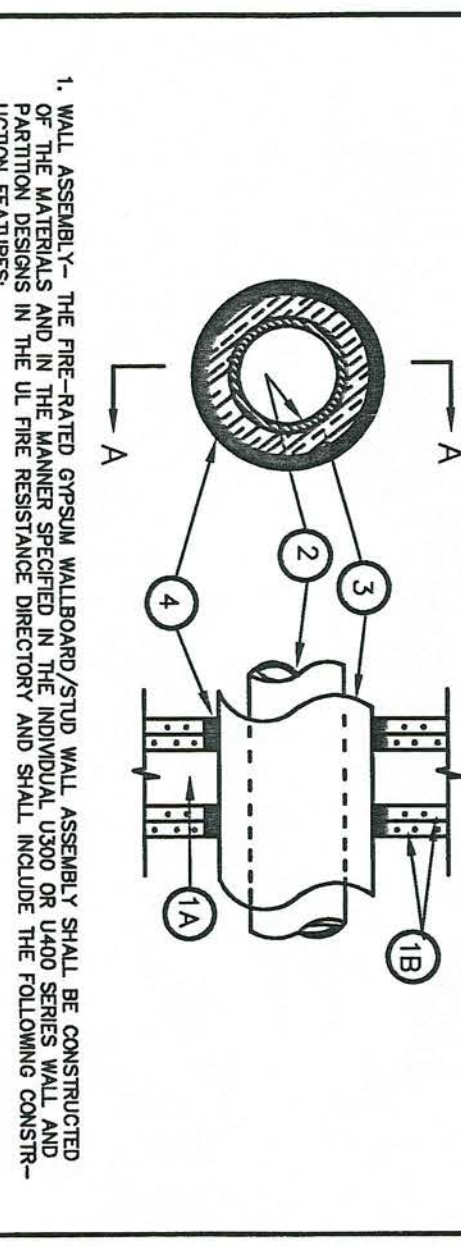
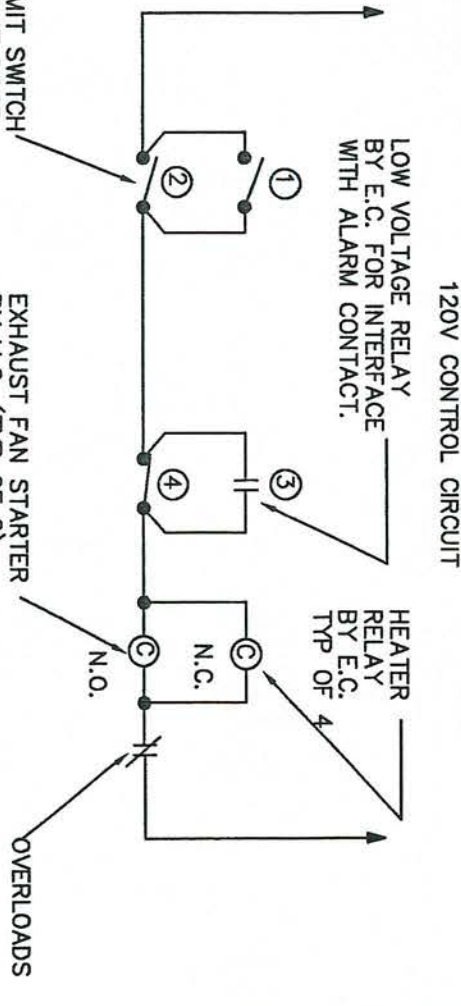
**FIXTURE NOTES:**

- ALL FLUORESCENT LAMPS SHALL BE 78 OPTION 3000 K AND OF FLUORESCENT BALLASTS SHALL BE ELECTRONIC BY MANUFACTURER SPECIFIED, (OR APPROVED EQUAL), UNLESS OTHERWISE NOTED.
- SUBSTITUTIONS APPROVED BY THE ENGINEER PREVIOUS TO BID ARE ACCEPTABLE AS LONG AS THEY ARE EQUAL TO THE FIXTURE SPECIFIED. THIS INCLUDES LENS, REFLECTORS, LAMP COLORS, AND FINISHES. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER WITH CUT SHEETS FOR APPROVAL.
- ALL INCANDESCENT LIGHT FIXTURES SHALL HAVE AN UL LABEL. MAXIMUM WATTAGE SHALL BE SPECIFIED ABOVE THE FIXTURE. PART NUMBERS MAY BE INCOMPLETE. SEE ADDITIONAL DETAILS IN DRAWINGS.
- INBOARD/OUTBOARD SWITCHING IS INDICATED ON THE DRAWINGS. TABLET/FITTINGS ARE ALLOWED TO FACILITATE INBOARD/OUTBOARD SWITCHING.
- ALSO ALL VERTICAL FLUORESCENT POINTLIGHTS SO THAT THE PL LAMPS ARE ASSEMBLED IN THE SAME DIRECTION.
- PART NUMBERS MAY BE INCOMPLETE. SEE ADDITIONAL DETAILS IN LIGHT FIXTURE SCHEDULE FOR COMPLETE DESCRIPTIONS.



**1. MOUNTING HEIGHTS OF DEVICES - ELEVATION**  
 NO SCALE  
 NOTES:  
 1. ALL DIMENSIONS ARE TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED.

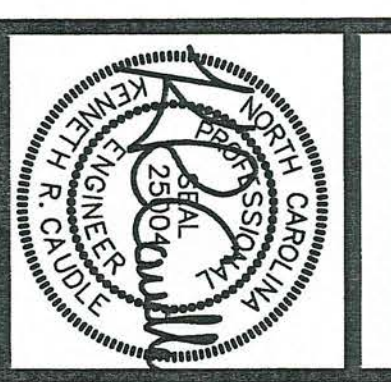
**2. DOOR CONTROL SCHEMATIC**  
 NO SCALE  
 NOTES:  
 1. ONENESS DOORS ARE TO OPERATE FROM LOCAL WALL-MOUNTED SWITCHES. TRUCKS.  
 2. SEE POWER PLANS FOR EXACT QUANTITY OF MOTORS.  
 3. ONE SYSTEM EACH DOOR.  
 4. WIRING BY E.C.



**3. EXHAUST SYSTEM SCHEMATIC**  
 NO SCALE  
 NOTES:  
 1. "ON" UNDER CONDITION "D" WHEN ALARM RECEIVED AND LOW VOLTAGE RELAY OPERATIONAL. OVERLOAD PROTECTION SHALL BE PROVIDED.  
 2. AUTOMATICALLY OPERATE FROM EXHAUST/HEATER SYSTEM.  
 3. EXHAUST SYSTEM SHALL REMAIN ON 10 MIN. AFTER BAY DOORS ARE SHUT.  
 4. PROVIDE TUNER AS REQUIRED.  
 5. EXHAUST SWITCHES FINISHED BY ELECTRICAL CONTRACTOR.  
 6. ELECTRICAL CONTRACTOR SHALL WIRE EXHAUST/HEATER SYSTEM CONTROLS PER SPECIFICATIONS. CONDITIONS THE DOORS ARE CLOSED. THE HEATERS ARE ON AND THE FANS ARE OFF. WHEN DOORS OPEN THE HEATERS TURN OFF AND THE FANS TURN ON.

**4. THROUGH-PENETRATION FIRESTOP SYSTEMS**  
 NO SCALE  
**NORTH CAROLINA STATE BUILDING CODE**  
 (ASHRAE 90.1 WITH NORTH CAROLINA AMENDMENTS)  
 VOLUME X - ENERGY  
 ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE:  
 PERFORMANCE  ENERGY COST BUDGET   
 STANDARD RISER DIAGRAM WHICH INDICATES DESIGNATED POINTS FOR CHECK METERS.  
 SEE SHEET 10.03  
 STANDARD PANEL SCHEDULE DESCRIPTION WHICH IDENTIFIES DIFFERENT END USE LOADS.  
 SEE SHEET 10.04  
 LIGHTING SCHEDULE  
 LAMP TYPE REQUIRED IN FIXTURE  
 BALLAST TYPE USED IN THE FIXTURE  
 NUMBER OF BALLASTS IN FIXTURE  
 TOTAL WATTAGE PER FIXTURE  
 TOTAL WATTAGE PER ROOM  
 TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED  
**EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS)**  
 MOTOR HORSEPOWER N/A  
 MOTOR EFFICIENCY N/A  
 MOTOR TYPE N/A  
 NUMBER OF POLES N/A  
**DESIGNER STATEMENT: 1**  
 TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS SYSTEM SHALL COMPLY WITH ALL APPLICABLE REGULATORY, CODE AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, VOLUME X-ENERGY.  
 SIGNED: \_\_\_\_\_  
 NAME: KENNETH R. COOPER, P.E.  
 TITLE: ELECTRICAL ENGINEER

**RENOVATIONS AND ADDITIONS FOR THE NEW PUBLIC SAFETY BUILDING**  
 Pine Knoll Shores, North Carolina  
**ELECTRICAL DETAILS AND SYMBOLS**

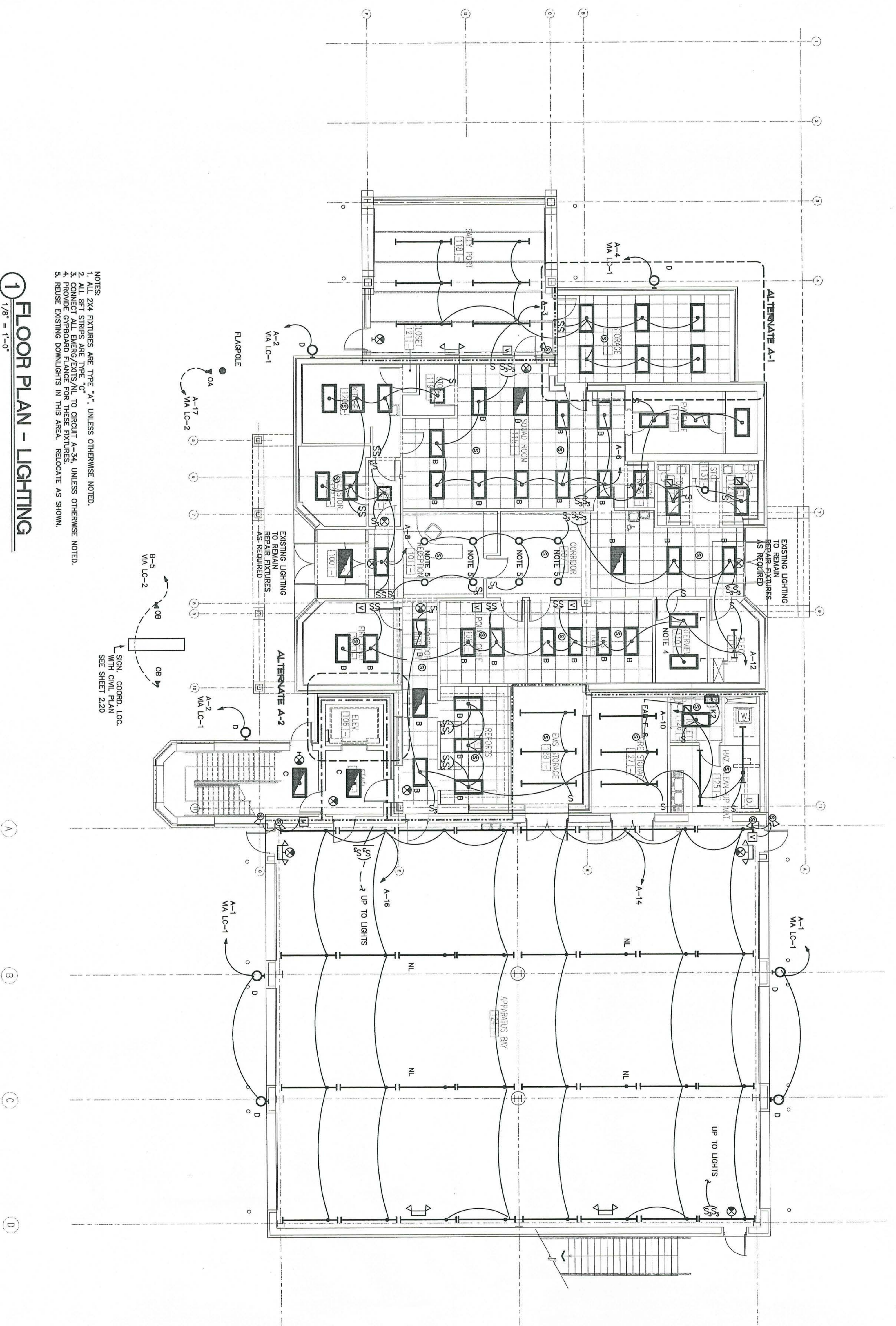


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 www.scn-architects.com

**Optima Engineering, P.A.**  
 1300 South Mint Street  
 Suite 100  
 Charlotte, N.C. 28203  
 (704) 338-1292  
 FAX (704) 338-9974

Project No. **999**  
 Date: 10-02  
 Drawn: KRC  
 Checked: KGP  
 Revisions:





- NOTES:
1. ALL 2'x4' FIXTURES ARE TYPE 'A', UNLESS OTHERWISE NOTED.
  2. ALL 8'x1' STRIPS ARE TYPE 'C' TO CIRCUIT A-24 UNLESS OTHERWISE NOTED.
  3. PROVIDE CORROSION RESISTANT FIXTURES FOR THESE FIXTURES.
  4. PROVIDE DOWNLIGHTS FOR THESE FIXTURES.
  5. REUSE EXISTING DOWNLIGHTS IN THIS AREA. RELOCATE AS SHOWN.

**1** FLOOR PLAN - LIGHTING  
1/8" = 1'-0"

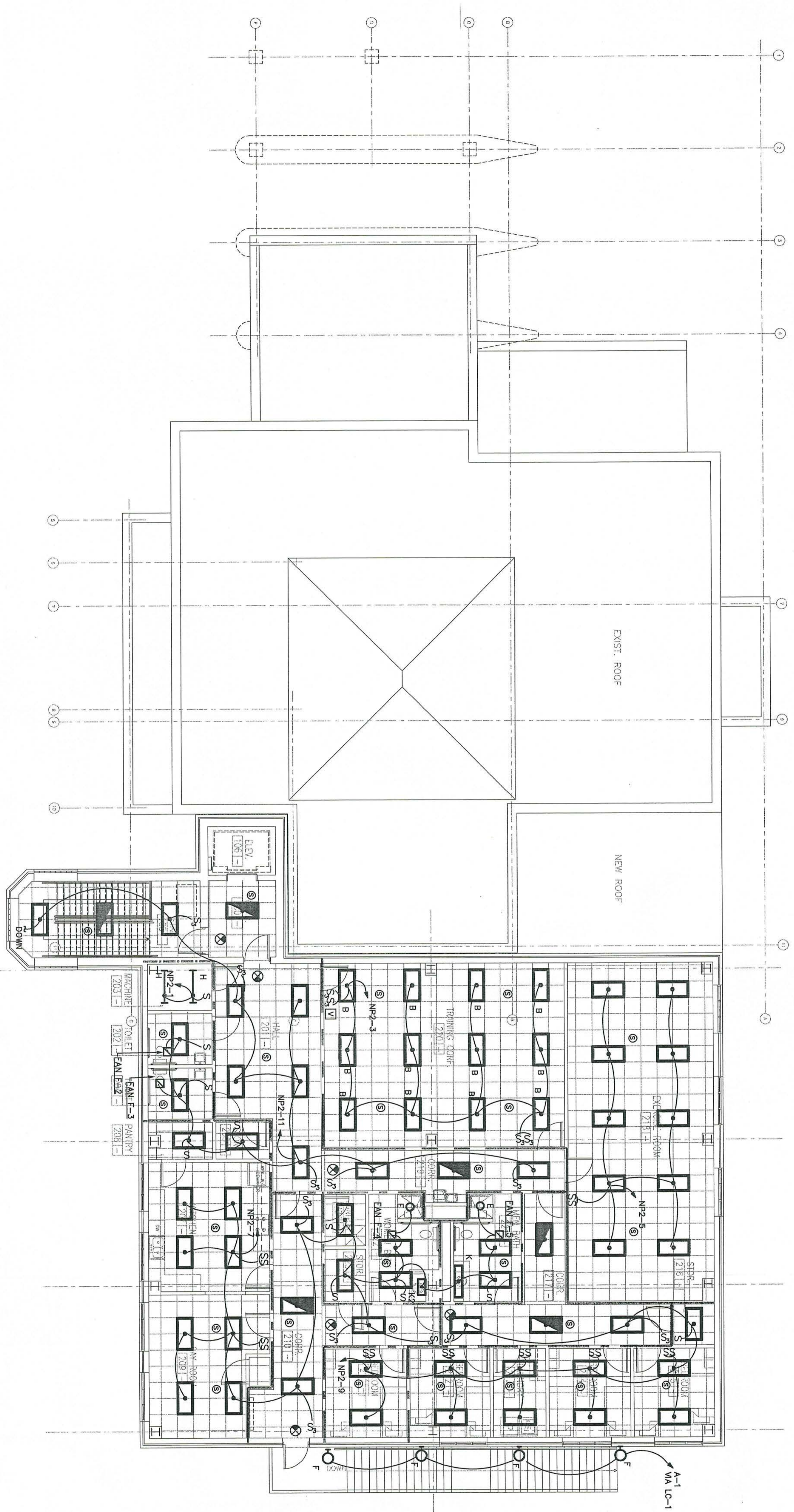
SIGN. COORD. LOC. WITH CIVIL PLAN SEE SHEET 2.20

sheet 10.11 2 OF 7 OPTIMA # 02249	<b>RENOVATIONS AND ADDITIONS FOR THE NEW PUBLIC SAFETY BUILDING</b> Pine Knoll Shores, North Carolina			<b>Stewart · Cooper · Newell · Architects</b> Planning Architecture Interiors	2019 Sumner St. Ste. 202 Columbia, SC 29201 phone: 803.766-0001 phone: 803.766-0011 fax: 803.766-2011	OPTIMA ENGINEERING, P.A. 1300 SOUTH MINT STREET SUITE 100 CHARLOTTE, N.C. 28203 (704) 338-1292 FAX (704) 338-9974	Date: 8-7-02 Drawn: KRC Checked: KRP Revisions:	Project No. <b>999</b>
	<b>FLOOR PLAN - LIGHTING</b>			719 east second ave. Gastonia, NC 28054 phone: 704.865.6311 fax: 704.865.0048 www.scn-architects.com				









NOTES:  
 1. ALL 2X4 FIXTURES ARE TYPE 'A', UNLESS OTHERWISE NOTED.  
 2. CONNECT ALL EMERGENCY/EXITS TO CIRCUIT NP2-15, UNLESS OTHERWISE NOTED.

**1 FLOOR PLAN - LIGHTING**  
 1/8" = 1'-0"

Project No.  
**999**

Date  
 8-21-02  
 Drawn  
 KRC  
 Checked  
 KGP  
 Revisions

OPTIMA ENGINEERING, P.A.  
 1300 SOUTH MINT STREET  
 SUITE 100  
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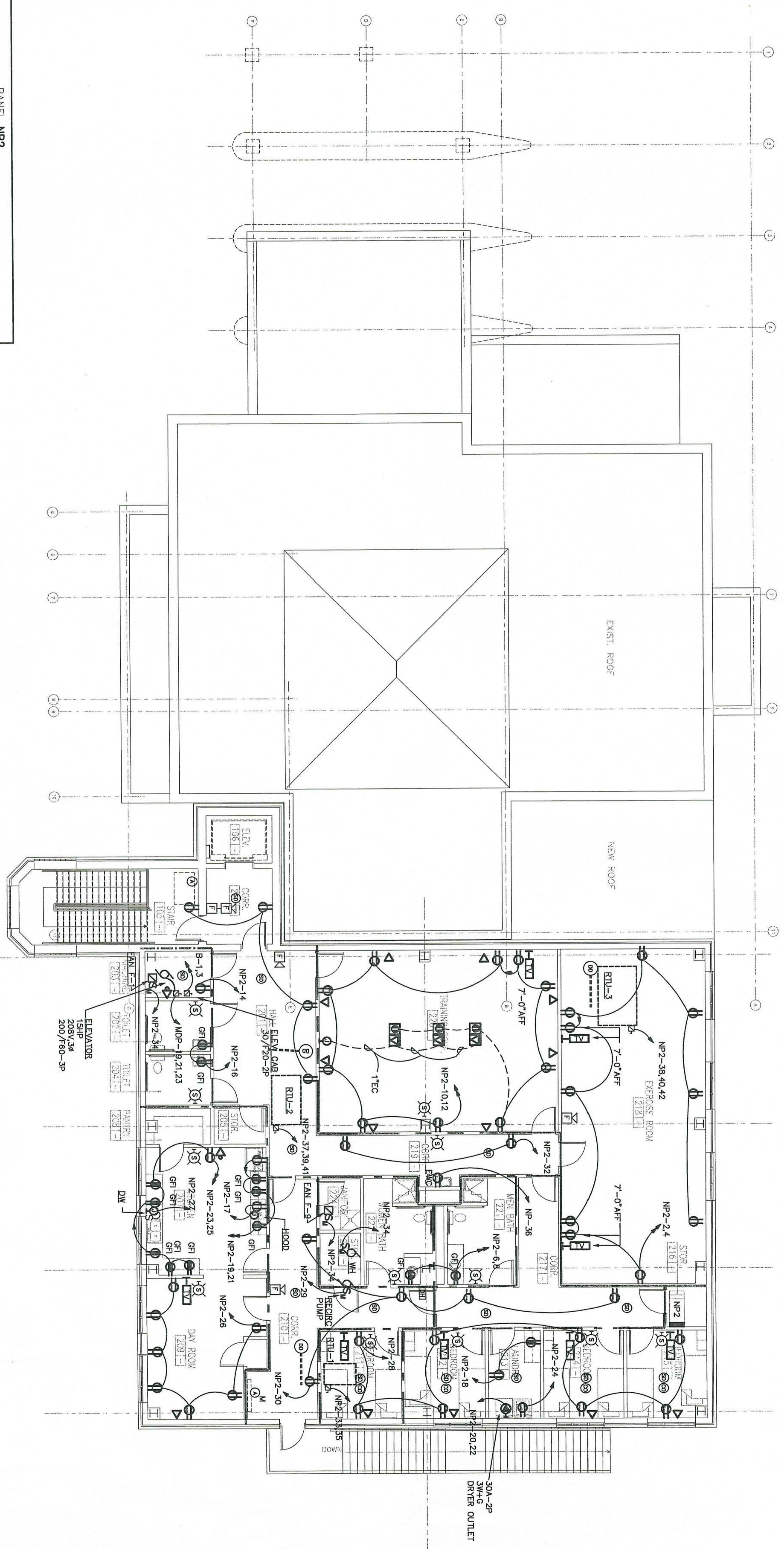


**RENOVATIONS AND ADDITIONS FOR THE NEW PUBLIC SAFETY BUILDING**  
 Pine Knoll Shores, North Carolina  
**FLOOR PLAN - LIGHTING**  
 sheet 10.21  
 4 OF 7  
 OPTIMA # 02249



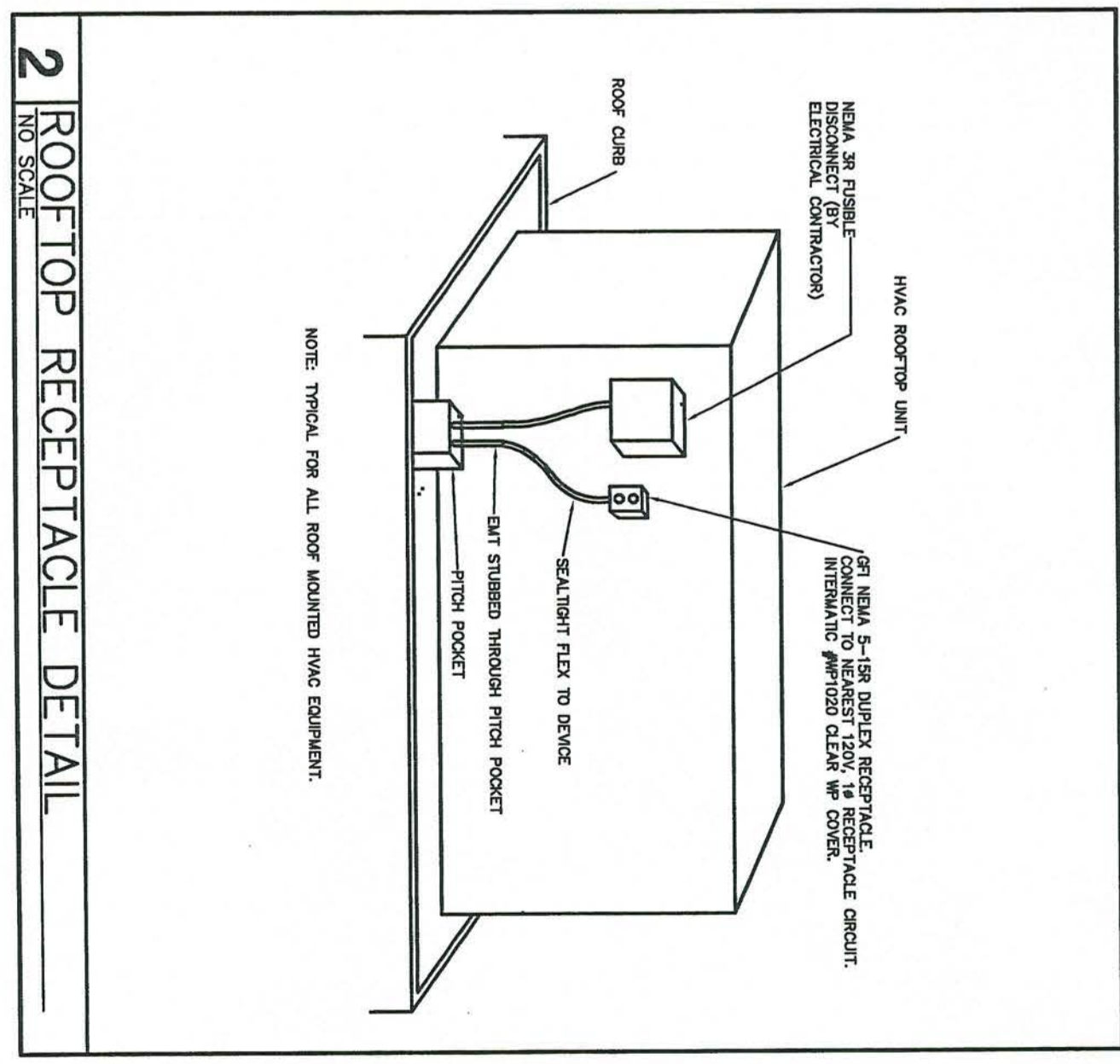
PANEL NP2									
120/208 VOLTS	3	4	WIRE	225A MLO	TYPE	NOOD	10,000 AIC		
SURFACE MOUNTING									
LOAD SERVED	WIRE	WIRE	CKT	CKT	REL	WIR	LOAD SERVED		
	SIZE	TYPE	NO	NO	TYPE	TYPE			
			A B C	A B C					
LIGHTING	12 20	008 1	2	008 20	12	RECEPTACLES			
LIGHTING	12 20	008 3	4	008 20	12	RECEPTACLES			
LIGHTING	12 20	008 5	6	008 20	12	RECEPTACLES			
LIGHTING	12 20	008 7	8	008 20	12	RECEPTACLES			
LIGHTING	12 20	008 9	10	008 20	12	RECEPTACLES			
LIGHTING	12 20	008 11	12	008 20	12	RECEPTACLES			
LIGHTING	12 20	008 13	14	008 20	12	RECEPTACLES			
EMERGENCY/EXIT LIGHTING *	12 20	008 15	16	008 20	12	RECEPTACLES			
PANNE	12 20	008 17	18	008 20	12	RECEPTACLES			
RECEPTACLES	12 20	008 19	20	008 30	10	DRYER			
RECEPTACLES	12 20	008 21	22	008 10	10	WASHER			
RECEPTACLES	12 20	008 23	24	008 20	12	RECEPTACLES			
RECEPTACLES	12 20	008 25	26	008 20	12	RECEPTACLES			
DISHWASHER	12 20	008 27	28	008 20	12	RECEPTACLES			
RECEPTACLES	12 20	008 29	30	008 20	12	RECEPTACLES			
RECIRC PUMP	008 31	32	008 20	12	RECEPTACLES				
RTU-1	10 30	008 33	34	008 20	12	FANS			
RTU-1	10 30	008 35	36	008 20	12	FANS			
RTU-1	10 30	008 37	38	008 20	12	FANS			
RTU-2	10 30	008 39	40	008 45	6	RTU-3			
RTU-2	10 30	008 41	42	008 45	6	RTU-3			
TOTAL									571

- LOADS  
 LIGHTS 6  
 COOLING 24  
 VENTILATION 0.0  
 MOTORS 0.0  
 RECEPTACLES 17.6  
 WATER HEATER 5  
 SPACE 0.0  
 TOTAL 57.1
- NOTES  
 1. \* - INDICATES HANDLE LOCK-ON DEVICE.



- NOTES  
 1. PROVIDE CONNECTION TO SOLENOID FOR RANGE TO BE CONTROLLED BY PUSHER BUTTON AND WIRING BY E.O.S. SOLENOID VALVE BY P.C. SOLENOID IS NORMALLY CLOSED.

**1 FLOOR PLAN - POWER**  
 1/8" = 1'-0"



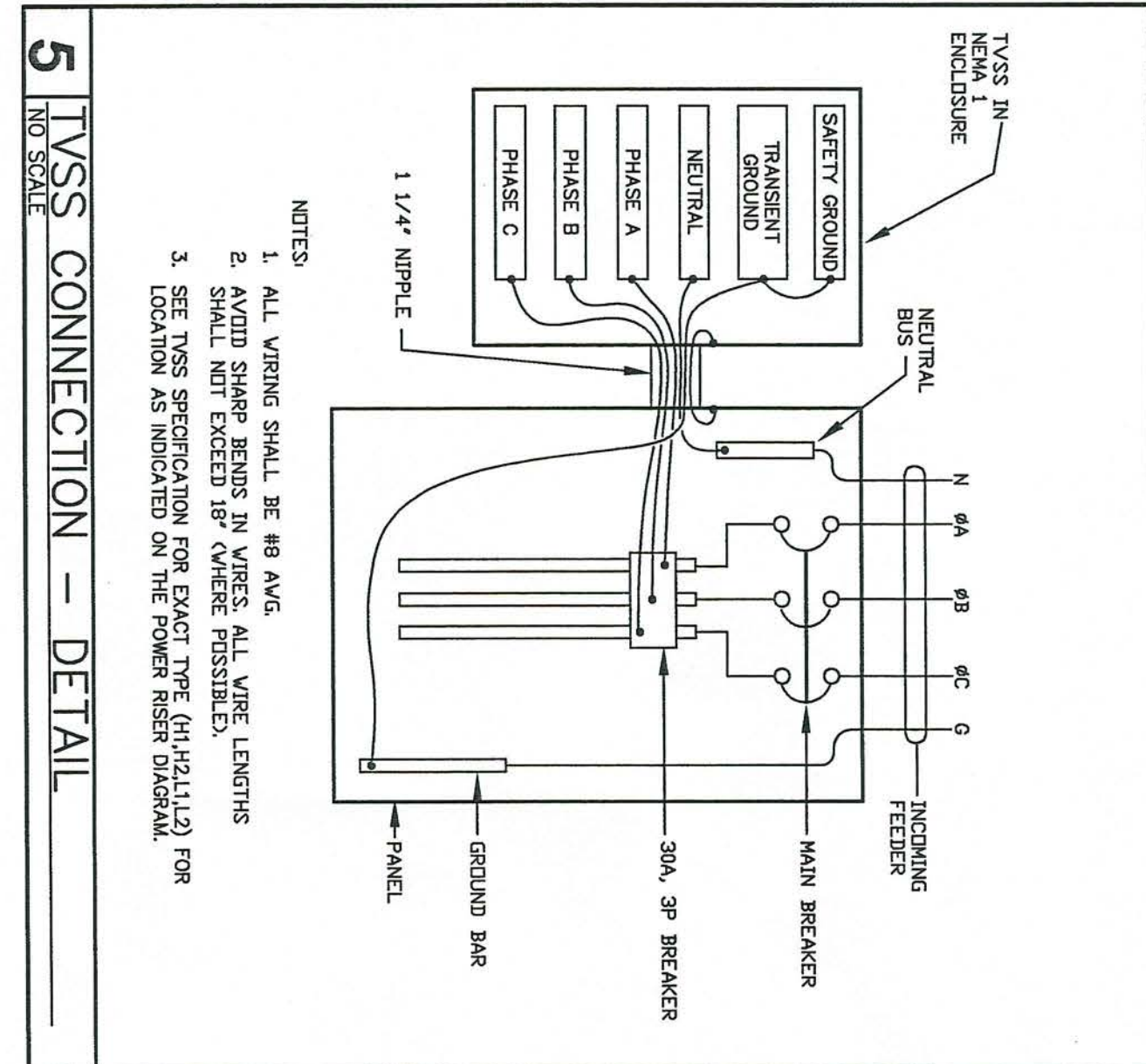
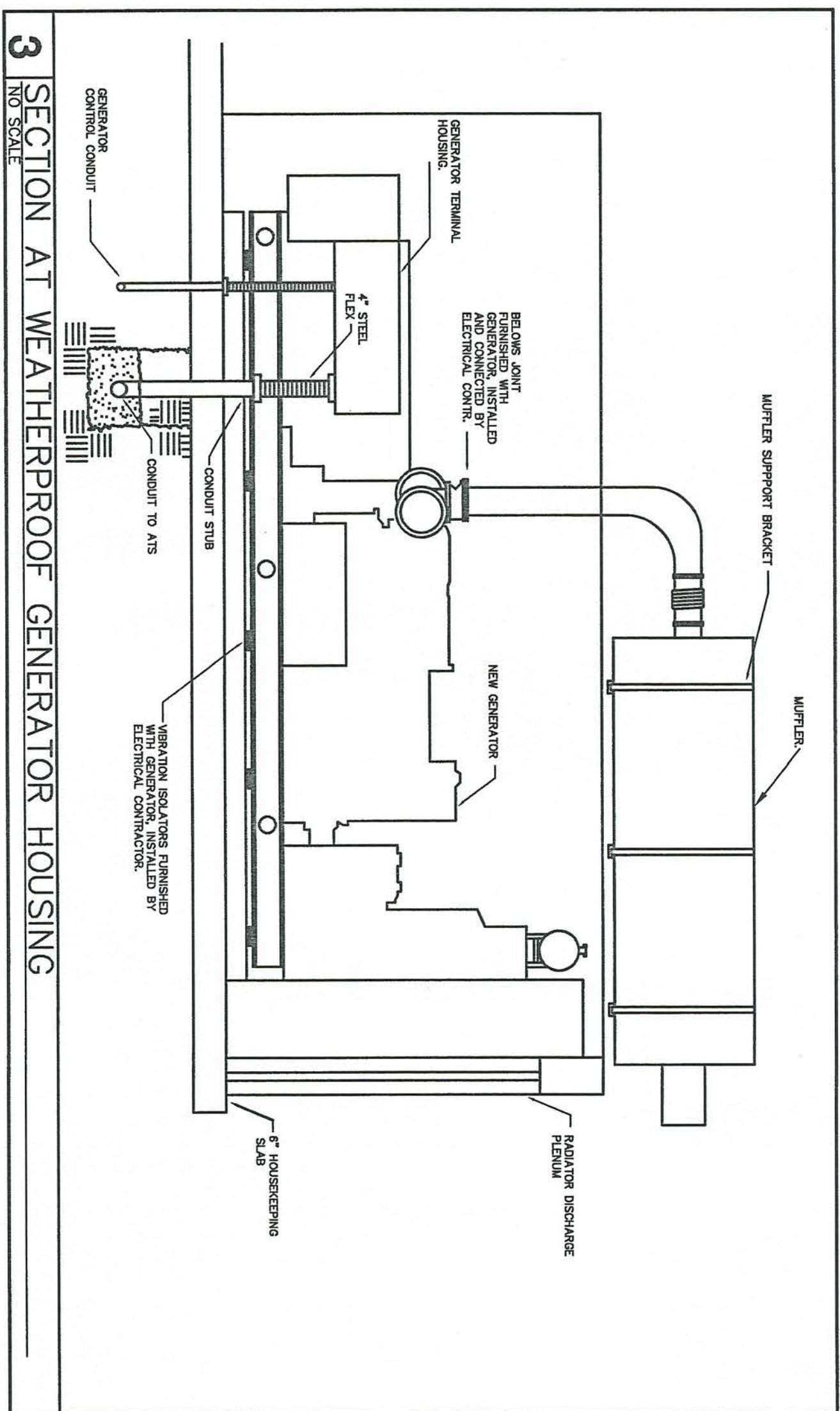
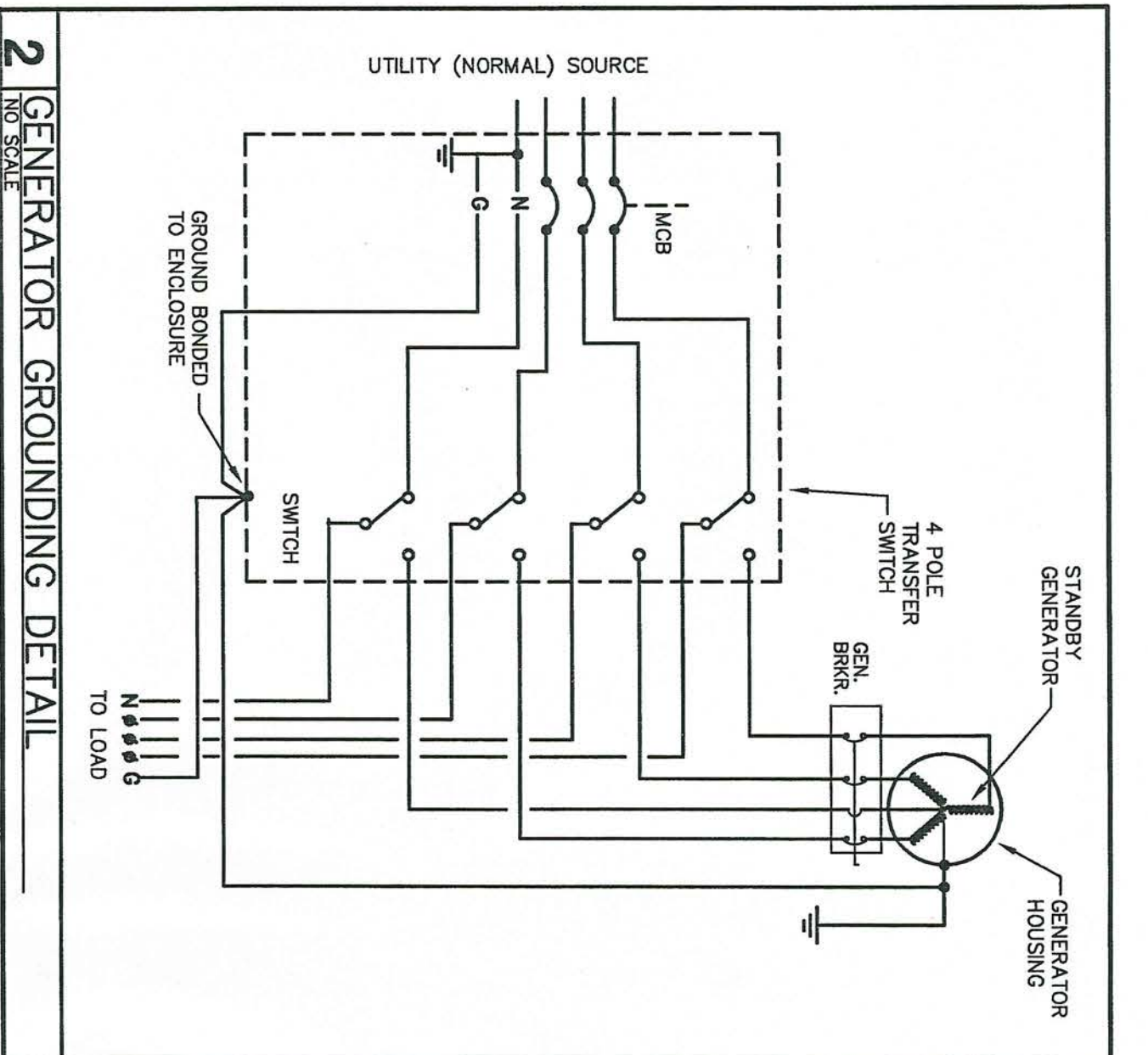
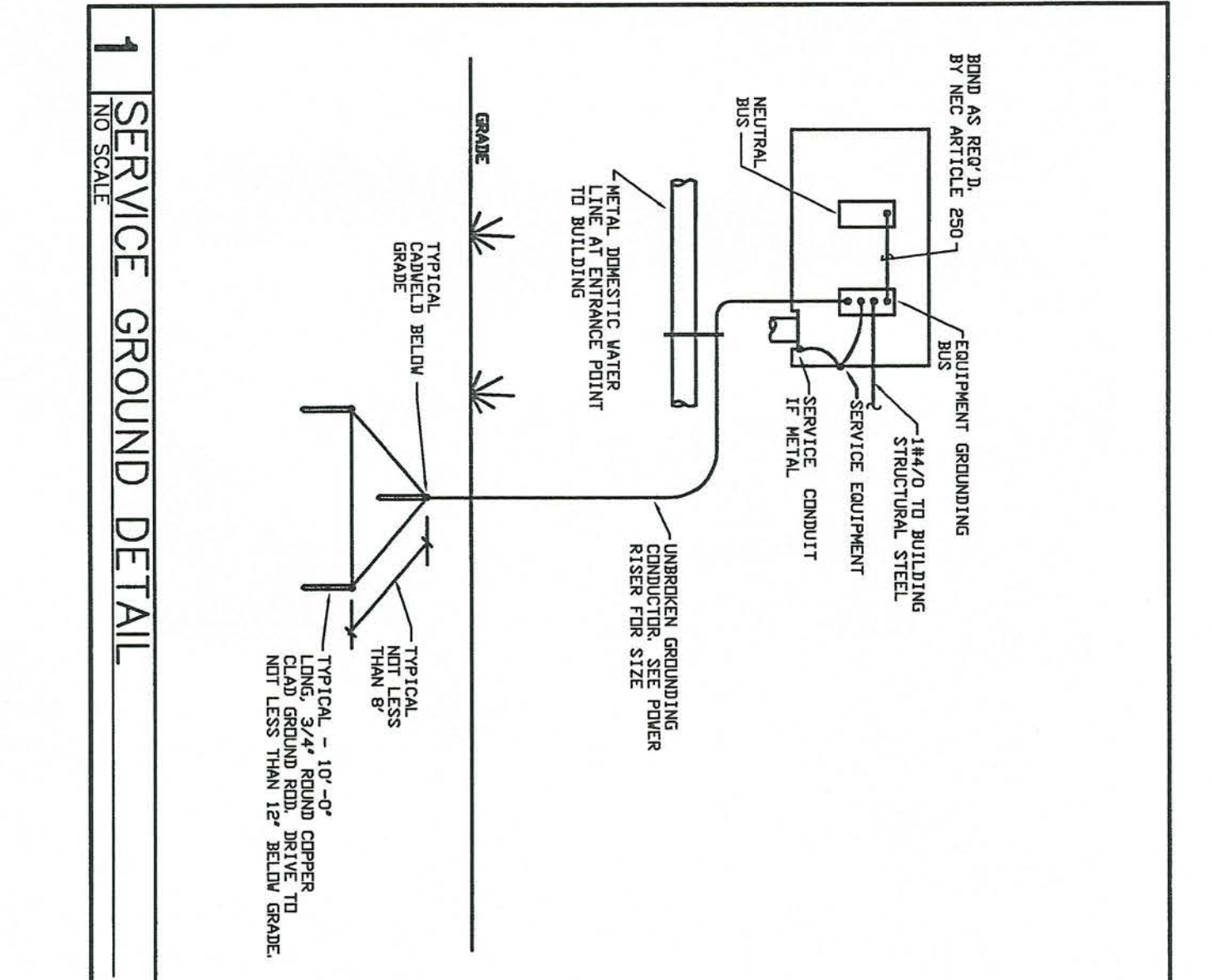
**2 ROOFTOP RECEPTACLE DETAIL**  
 NO SCALE



120/208 VOLTS SURFACE MOUNTING	3	4	WIRE MAINS	225A MLO	PANEL A	TYPE	EXISTING	LOAD SERVED
WIRE	FRAME	WIRE	CT	NO	FRAME	WIRE	LOAD SERVED	
LIGHTING VA LC-1	12 20	008 1	2	008 20	12		LIGHTING VA LC-1	
LIGHTING	12 20	008 3	4	008 20	12		LIGHTING VA LC-1	
SPARE	12 20	008 5	6	008 20	12		LIGHTING	
SPARE	12 20	008 7	8	008 20	12		LIGHTING	
LIGHTING VA LC-3 (RM)	10 20	008 9	1	008 20	12		LIGHTING	
LIGHTING VA LC-3 (RM)	10 20	008 11	2	008 20	12		LIGHTING	
LIGHTING VA LC-3 (RM)	10 20	008 13	3	008 20	12		LIGHTING	
LIGHTING VA LC-3 (RM)	10 20	008 15	4	008 20	12		LIGHTING	
LIGHTING VA LC-2	10 20	008 17	5	008 20	12		SPARE	
RECEPTACLES	12 20	008 19	7	008 20	12		RECEPTACLES (RM)	
RECEPTACLES	12 20	008 21	9	008 20	12		RECEPTACLES (RM)	
RECEPTACLES	12 20	008 23	11	008 20	12		RECEPTACLES (RM)	
RECEPTACLES	12 20	008 25	13	008 20	12		RECEPTACLES (RM)	
RECEPTACLES	12 20	008 27	15	008 20	12		RECEPTACLES (RM)	
RECEPTACLES	12 20	008 29	17	008 20	12		RECEPTACLES (RM)	
RECEPTACLES	12 20	008 31	19	008 20	12		RECEPTACLES (RM)	
RECEPTACLES	12 20	008 33	21	008 20	12		RECEPTACLES (RM)	
RECEPTACLES	12 20	008 35	23	008 20	12		RECEPTACLES (RM)	
RECEPTACLES	12 20	008 37	25	008 20	12		RECEPTACLES (RM)	
RECEPTACLES	12 20	008 39	27	008 20	12		RECEPTACLES (RM)	
RECEPTACLES	12 20	008 41	29	008 20	12		RECEPTACLES (RM)	
LOADS								
HEATING	0.0							
COOLING	0.0							
VENTILATION	0.0							
KITCHEN	0.0							
RECEPTACLES	12							
WATER HEATER	0.0							
MISC.	0.0							
SPARE	0.0							
TOTAL	277.0							

120/208 VOLTS SURFACE MOUNTING	3	4	WIRE MAINS	500A MGB	PANEL MDP	TYPE	EXISTING	LOAD SERVED
WIRE	FRAME	WIRE	CT	NO	FRAME	WIRE	LOAD SERVED	
PANEL 'X' (RM)	3/0	008 1	2	008 3/0	3/0		PANEL 'X' (RM)	
PANEL 'X' (RM)	3/0	200 008 3	4	200 3/0	3/0		PANEL 'X' (RM)	
PANEL 'X' (RM)	3/0	008 5	6	008 3/0	3/0		PANEL 'X' (RM)	
PANEL 'Y' (RM)	3/0	008 7	8	008 3/0	3/0		PANEL 'Y' (RM)	
PANEL 'Y' (RM)	3/0	008 9	9	008 3/0	3/0		PANEL 'Y' (RM)	
PANEL 'Y' (RM)	3/0	008 11	10	008 3/0	3/0		PANEL 'Y' (RM)	
PANEL 'Y' (RM)	3/0	008 13	11	008 3/0	3/0		PANEL 'Y' (RM)	
PANEL 'Y' (RM)	3/0	008 15	12	008 3/0	3/0		PANEL 'Y' (RM)	
PANEL 'Y' (RM)	3/0	008 17	13	008 3/0	3/0		PANEL 'Y' (RM)	
PANEL 'Y' (RM)	3/0	008 19	14	008 3/0	3/0		PANEL 'Y' (RM)	
PANEL 'Y' (RM)	3/0	008 21	15	008 3/0	3/0		PANEL 'Y' (RM)	
PANEL 'Y' (RM)	3/0	008 23	16	008 3/0	3/0		PANEL 'Y' (RM)	
PANEL 'Y' (RM)	3/0	008 25	17	008 3/0	3/0		PANEL 'Y' (RM)	
PANEL 'Y' (RM)	3/0	008 27	18	008 3/0	3/0		PANEL 'Y' (RM)	
PANEL 'Y' (RM)	3/0	008 29	19	008 3/0	3/0		PANEL 'Y' (RM)	
PANEL 'Y' (RM)	3/0	008 31	20	008 3/0	3/0		PANEL 'Y' (RM)	
PANEL 'Y' (RM)	3/0	008 33	21	008 3/0	3/0		PANEL 'Y' (RM)	
PANEL 'Y' (RM)	3/0	008 35	22	008 3/0	3/0		PANEL 'Y' (RM)	
PANEL 'Y' (RM)	3/0	008 37	23	008 3/0	3/0		PANEL 'Y' (RM)	
PANEL 'Y' (RM)	3/0	008 39	24	008 3/0	3/0		PANEL 'Y' (RM)	
PANEL 'Y' (RM)	3/0	008 41	25	008 3/0	3/0		PANEL 'Y' (RM)	
LOADS								
HEATING	0.0							
COOLING	0.0							
VENTILATION	0.0							
KITCHEN	0.0							
RECEPTACLES	12							
WATER HEATER	0.0							
MISC.	0.0							
SPARE	0.0							
TOTAL	164.0							

120/208 VOLTS SURFACE MOUNTING	3	4	WIRE MAINS	225A MLO	PANEL B	TYPE	EXISTING	LOAD SERVED
WIRE	FRAME	WIRE	CT	NO	FRAME	WIRE	LOAD SERVED	
ELEVATOR CAB/CONTROLS	12 20	008 1	2	008 20	12		SPARE	
ELEVATOR CAB/CONTROLS	12 20	008 3	3	008 20	12		SPARE	
LIGHTING VA LC-2	12 20	008 5	4	008 20	12		SPARE	
SUMP PUMP (RM)	12 20	008 7	5	008 20	12		SPARE	
DOOR MOTOR	12 20	008 9	6	008 20	12		SPARE	
DOOR MOTOR	12 20	008 11	7	008 20	12		SPARE	
DOOR MOTOR	12 20	008 13	8	008 20	12		SPARE	
DOOR MOTOR	12 20	008 15	9	008 20	12		SPARE	
RECEPTACLES (RM)	12 20	008 17	10	008 20	12		RECEPTACLES (RM)	
RECEPTACLES (RM)	12 20	008 19	11	008 20	12		RECEPTACLES (RM)	
RECEPTACLES (RM)	12 20	008 21	12	008 20	12		RECEPTACLES (RM)	
RECEPTACLES (RM)	12 20	008 23	13	008 20	12		RECEPTACLES (RM)	
RECEPTACLES (RM)	12 20	008 25	14	008 20	12		RECEPTACLES (RM)	
RECEPTACLES (RM)	12 20	008 27	15	008 20	12		RECEPTACLES (RM)	
RECEPTACLES (RM)	12 20	008 29	16	008 20	12		RECEPTACLES (RM)	
RECEPTACLES (RM)	12 20	008 31	17	008 20	12		RECEPTACLES (RM)	
RECEPTACLES (RM)	12 20	008 33	18	008 20	12		RECEPTACLES (RM)	
RECEPTACLES (RM)	12 20	008 35	19	008 20	12		RECEPTACLES (RM)	
RECEPTACLES (RM)	12 20	008 37	20	008 20	12		RECEPTACLES (RM)	
RECEPTACLES (RM)	12 20	008 39	21	008 20	12		RECEPTACLES (RM)	
RECEPTACLES (RM)	12 20	008 41	22	008 20	12		RECEPTACLES (RM)	
LOADS								
LAUNDRY	0.0							
HEATING	0.0							
COOLING	0.0							
VENTILATION	0.0							
KITCHEN	0.0							
RECEPTACLES	2							
WATER HEATER	0.0							
MISC.	0.0							
SPARE	0.0							
TOTAL	17.0							



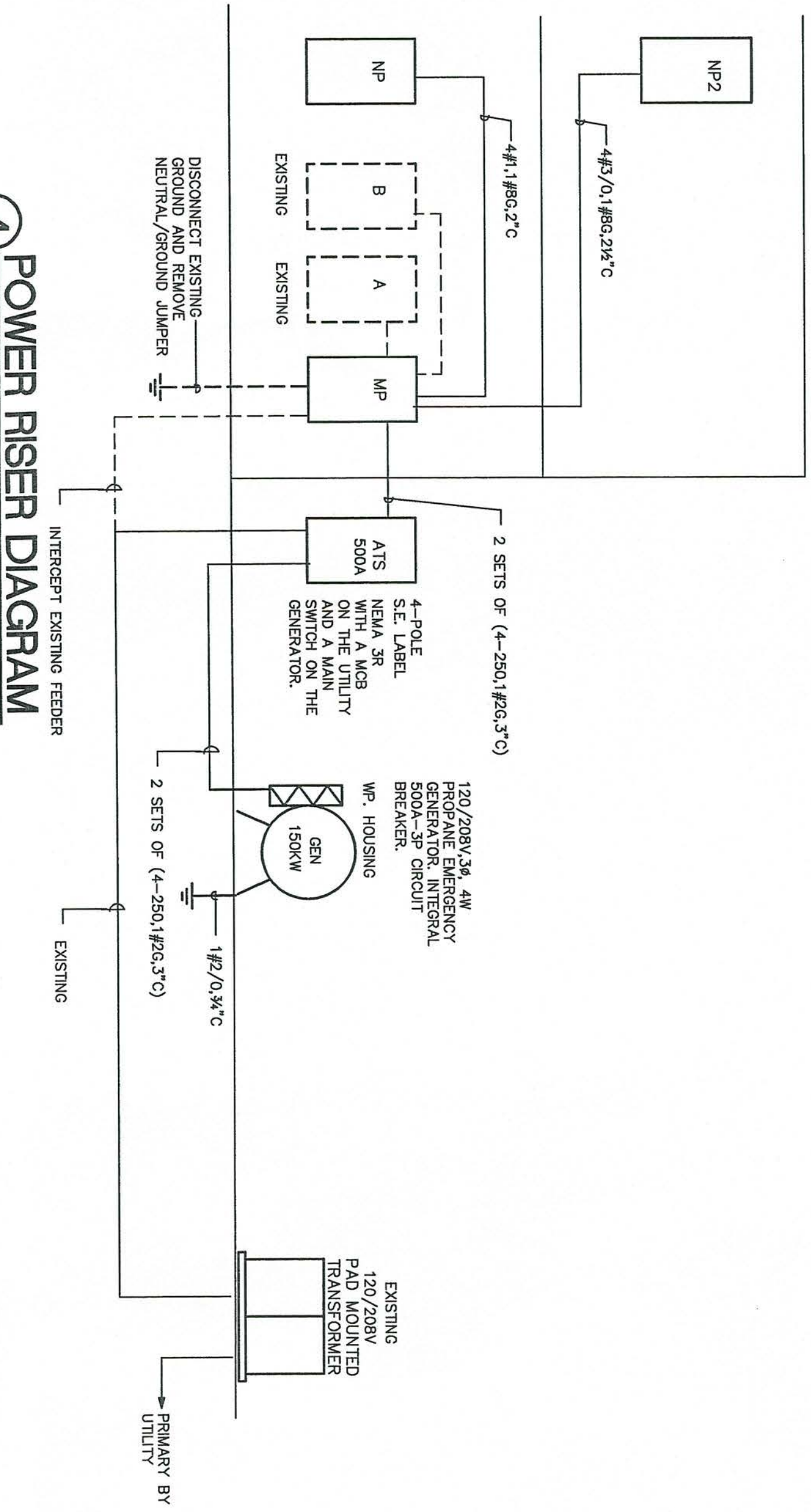
SYMBOL	COMPRESSOR (EA)	FAN	OPM	ELM	COMB. FAN	POWER SUPPLY	DISCONNECT
RUI-1	12.8	61.0	1	0.8	2.0	18.8	30/750-2P-3R
RUI-2	15.4	90.0	1	1.4	3.5	24.2	30/750-3P-3R
RUI-3	14.0	91.0	2	1.4	5.8	40.1	60/745-3P-3R

SYMBOL	FAN	ELECTRICAL DATA	DISCONNECT
CL-1	60.0	11.8 1.0 15.5 2.0	30/750-2P-3R
CL-2	137.0	17.3 1.4 23.0 3.5	30/750-3P-3R
CL-3	137.0	17.3 1.4 23.0 3.5	60/735-3P-3R

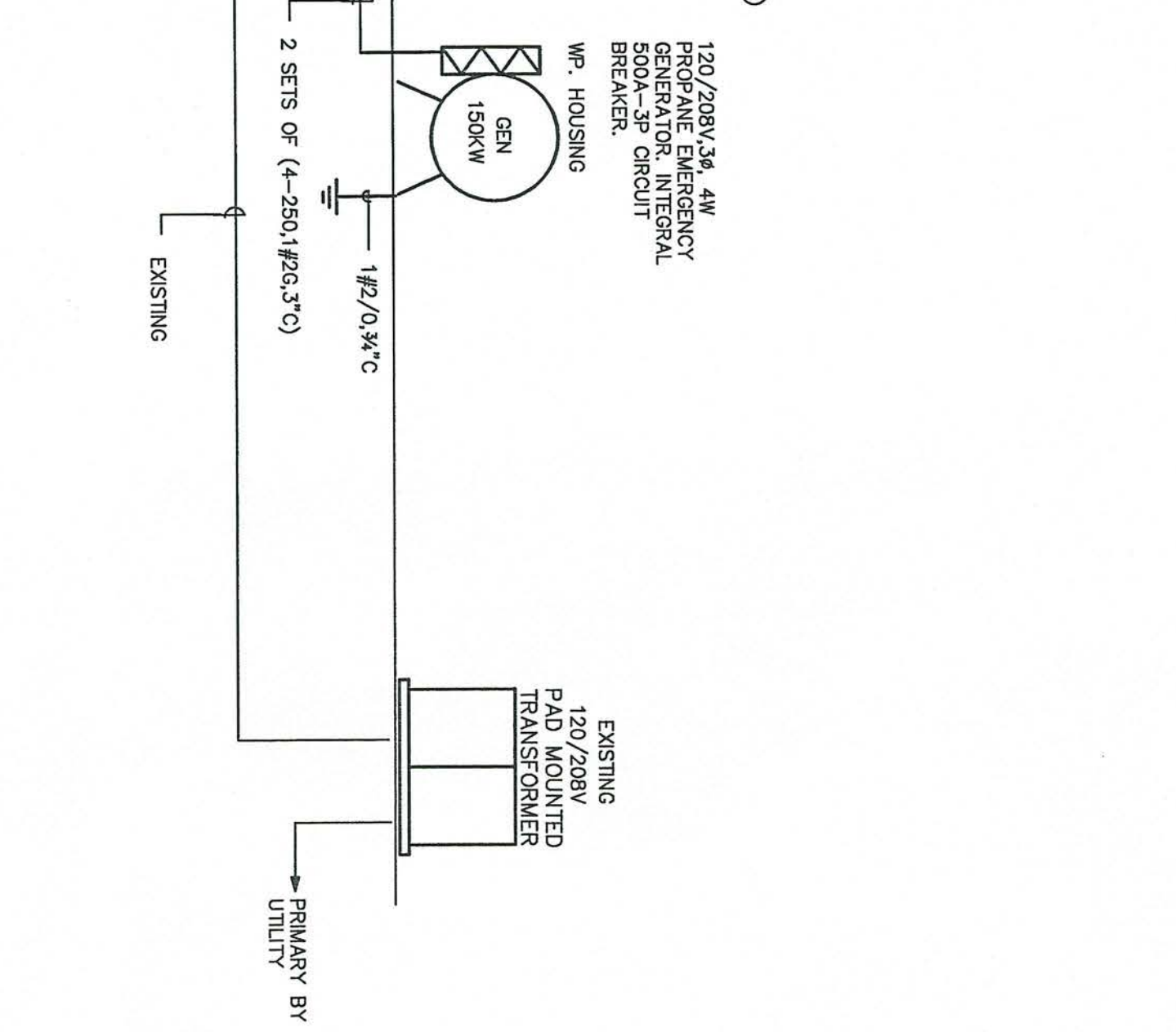
SYMBOL	FAN	VOLTS	DISCONNECT
GH-1	1/3	120	MANUAL MOTOR STARTER W/O.L.
GH-2	1/3	120	MANUAL MOTOR STARTER W/O.L.
GH-3	1/20	120	MANUAL MOTOR STARTER W/O.L.

SYMBOL	FAN MOTOR	ELECTRICAL DATA	DISCONNECT
IDU-1	1/5	4.9 8.4 15	120V-1P
IDU-2	3/4	11.1 19.3 20	120V-1P
IDU-3	3/4	11.1 19.3 20	120V-1P

SYMBOL	FAN	VOLTS	DISCONNECT
E-1	2/4	120	MANUAL MOTOR STARTER W/O.L.
E-2	1/2	120	MANUAL MOTOR STARTER W/O.L.
E-3	1/2	120	MANUAL MOTOR STARTER W/O.L.
E-4	81	120	MANUAL MOTOR STARTER W/O.L.
E-5	81	120	MANUAL MOTOR STARTER W/O.L.
E-6	1	208	30/775-3P-3R
E-7	1	208	30/775-3P-3R
E-8	1/2	120	MANUAL MOTOR STARTER W/O.L.
E-9	1/4	120	MANUAL MOTOR STARTER W/O.L.
E-10	1/4	120	MANUAL MOTOR STARTER W/O.L.

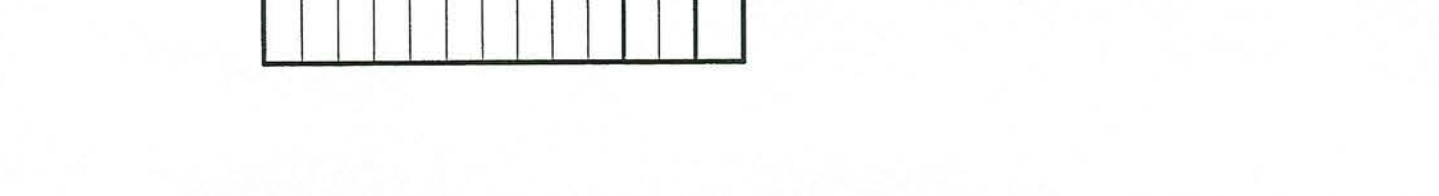


#### 4 POWER RISER DIAGRAM



#### 3 SECTION AT WEATHERPROOF GENERATOR HOUSING

#### 5 TVSS CONNECTION - DETAIL



<b>RENOVATIONS AND ADDITIONS FOR THE NEW PUBLIC SAFETY BUILDING</b> Pine Knoll Shores, North Carolina <b>POWER RISER DIAGRAM AND DETAILS</b>	Project No. <b>999</b> Date: <b>8-01-02</b> Drawn: <b>KRC</b> Checked: <b>KBP</b> Revisions:	<b>Stewart · Cooper · Newell · Architects</b> Planning Architecture Interiors 710 east second ave. #2054 gastonia, nc 28054 phone: 704.898.0092 fax: 704.898.0048 www.scn-architects.com	OPTIMA ENGINEERING, P.A. 1300 SOUTH MINT STREET SUITE 100 CHARLOTTE, N.C. 28203 (704) 338-1292 FAX (704) 338-9974
	sheet <b>10.31</b> 6 OF 7 <small>OPTIMA # 022318</small>	<small>2018 center st. ste.202 columbia, sc 29201 phone: 803.765-1011 fax: 803.765-2010</small>	



