



P.A. architect, INC

PLANNING - EVALUATION - DESIGN

5450 GRIFFIN ROAD, SUITE B1

DAVIE, FLORIDA, 33314

TEL: (954) 584-6880 FAX: (954) 581-2631

FLORIDA LICENSE AA-003186 e-mail : paguire@pa-architect.com

**CODE CONFORMANCE**

ALL WORK IS DESIGNED TO CONFORM TO  
 - FLORIDA BUILDING CODE (FBC) 5th EDITION 2014  
 - EXISTING BUILDING CODE (FBC) 5th EDITION 2014  
 - A.S.C.E. 7-10  
 - FLORIDA FIRE PREVENTION CODE - 5th EDITION (2014)  
 BASED ON:  
 NFPA 1 FIRE CODE 2012 EDITION  
 NFPA 101 LIFE SAFETY CODE 2012 EDITION

**SCOPE OF WORK**

- INTERIOR TENANT IMPROVEMENT

**BUILDING CLASSIFICATION DATA**

CLASS OF REHABILITATION: PER NFPA 101 CHAPTER 43 RECONSTRUCTION (GROUND FLOOR) ADDITION (MEZZ LEVEL)  
 PREVIOUS OCCUPANCY: GROUP "B" BUSINESS GROUP "S-1" MODERATE HAZARD STORAGE USE: SALES OF ELECTRONICS  
 PROPOSED OCCUPANCY CLASSIFICATION: GROUP "B" BUSINESS GROUP "S-1" USE: INTERNATIONAL COURIER WITH STORAGE WAREHOUSE  
 OCCUPANCY CLASSIFICATION: MIXED USE UN-SEPARATED (PER FBC 508.3.1) MIXED OCCUPANCY NFPA 101 SECTION 6.1.14.3 BETWEEN B AND S-1  
 ALLOWABLE BUILDING AREA AND HEIGHT (PER FBC 508.3.2): PER TABLE 503 TYPE III-B AND "B" = 3 STORIES / 19,000 SF "S-1" = 2 STORIES / 17,500 SF ALLOWABLE BUILDING AREA MODIFICATION PER FBC 508.1:  $A_b = (A_t + (A_t \times I_f) + (A_t \times I_s))$   $I_f = (F / P - 0.25) (W / 30)$   $I_s = ((949 \text{ LF} / 1120 \text{ LF}) - 0.25) (105 \text{ LF} / 30)$   $I_f = 2.1$  BUILDING SPRINKLERED THEREFORE  $I_s = 3.0$   $A_b = (17,500 + (17,500 \times 2.1) + (17,500 \times 3))$   $A_b = 106,750 \text{ sf} > \text{EXISTING BLDG AREA } 64,035 \text{ SF}$   
 SEPARATION PER FBC 508.3.3: NO SEPARATION WILL BE REQUIRED WITH IN THE UNIT  
 CONSTRUCTION TYPE: III-B  
 GROSS BUILDING UNIT AREA: 6,349 S.F.  
 FIRE SPRINKLERING: SPRINKLERED SYSTEM (NO FIRE ALARM)  
 STORAGE MATERIALS: MODERATE / ORDINARY HAZARD. DOMESTIC AND FOREIGN CARGO, COSMETICS, CLOTHING, FOOTWEAR, ELECTRONICS, APPLIANCES, CANNED FOOD, AUTOMOBILE PARTS, INDUSTRIAL PARTS.

**ALLOWABLE MEZZ AREA CALCULATION**

ENCLOSED AREA: 1,122 SF 10 OCCUPANTS  
 OPEN AREA: 254 SF 1 OCCUPANT  
 1,376 SF < 1,540 SF  
 (% OF WAREHOUSE 4,621)

**THERMAL- AND SOUND-INSULATING MATERIALS NOTE**

INSULATING MATERIALS, WHERE CONCEALED AS INSTALLED SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450.

| OCCUPANT LOAD CALCULATION (PER NFPA 101 TABLE 7.3.1.2) |                                  |                  |       |                                       |               |
|--|----------------------------------|------------------|-------|---------------------------------------|---------------|
|  | SPACE NAME                       | USE              | AREA  | OCCUPANT LOAD FACTOR                  | OCCUPANT LOAD |
| REAR EGRESS  | GROUND FLOOR WAREHOUSE           | STORAGE          | 4,468 | 500 SF/PERSON                         | 9             |
|  | GROUND FLOOR OFFICE / BATH       | BUSINESS         | 153   | 100 SF/PERSON                         | 2             |
|  | TOTAL WAREHOUSE AREA             |                  | 5,621 | TOTAL WAREHOUSE OCCUPANTS             | 11            |
| MEZZ EGRESS  | ENCLOSED OFFICES MEZZ            | BUSINESS STORAGE | 943   | 100 SF/PERSON                         | 9.4           |
|  | ENCLOSED STORAGE MEZZ            |                  | 172   | 300 SF/PERSON                         | 0.6           |
|  | TOTAL ENCLOSED MEZZ AREA         |                  | 1,115 | TOTAL ENCLOSED MEZZANINE              | 10            |
| GND FL BUSINESS EGRESS                                 | OPEN STORAGE MEZZ                | STORAGE          | 272   | 300 SF/PERSON                         | 1             |
|  | TOTAL MEZZ AREA                  |                  | 1,387 | TOTAL MEZZ OCCUPANTS                  | 11            |
|  | GROUND FLOOR OFFICES             | BUSINESS         | 1,096 | 100 SF/PERSON                         | 11            |
|  | GROUND FLOOR WAITING AREA        | ASSEMBLY         | 54    | 15 SF/PERSON NET                      | 4             |
|  | GROUND FLOOR BREAKROOM           | ASSEMBLY         | 73    | 15 SF/PERSON NET                      | 5             |
|  | GROUND FLOOR CONFERENCE          | ASSEMBLY         | 262   | 15 SF/PERSON NET                      | 18            |
|  | TOTAL GROUND FLOOR BUSINESS AREA |                  | 1,485 | TOTAL GROUND FLOOR BUSINESS OCCUPANTS | 38            |
| TOTAL GND FL AND MEZZ OCCUPANTS FOR FRONT EGRESS       |                                  |                  |       |                                       | 50            |
| TOTAL BUILDING OCCUPANTS                               |                                  |                  |       |                                       | 60            |

PER FBC 2014 CHAPTER 8 INTERIOR FINISHES TABLE 803.9

CONTRACTOR TO VERIFY THAT ALL INTERIOR FINISH MATERIALS COMPLY WITH THE FLAME SPREAD RATING AS REQUIRED BY THE ABOVE REFERENCED CODES:

1. INTERIOR WALL AND CEILINGS MINIMUM FLAME SPREAD RATING CLASSIFICATION REQUIREMENTS:

| SPRINKLERED  |                                      |  |                           |
|--------------|--------------------------------------|--|---------------------------|
| OCCUP. GROUP | VERTICAL EXITS AND EXIST PASSAGEWAYS | EXIT ACCESS CORRIDORS AND OTHER EXITWAYS | ROOMS AND ENCLOSED SPACES |
| B            | B                                    | C  | C                         |
| S            | C                                    | C  | C                         |

2. INTERIOR FLOOR FINISH MINIMUM FLAME SPREAD RATING CLASSIFICATION REQUIREMENTS PER FBC 2014 SECTION 804:

| SPRINKLERED  |                                      |                       |   |
|--------------|--------------------------------------|-----------------------|---|
| OCCUP. GROUP | VERTICAL EXITS AND EXIST PASSAGEWAYS | EXIT ACCESS CORRIDORS | ALL OTHER AREAS                           |
| B, S         | II                                   | II                    | MAT. SHALL COMPLY W/ DOC FF-1 "PILL TEST" |

NOTE: WHERE A COMPLETE STANDARD SYSTEM OF AUTOMATIC FIRE SPRINKLER IS INSTALLED, CLASS C INTERIOR FINISH MATERIALS MAY BE USED WHERE CLASS B ARE REQUIRED, ALSO INTERIOR FLOOR FINISH COMPLYING WITH DOC FF-1 "PILL TEST" ARE PERMITTED IN ANY AREAS WHERE CLASS II ARE REQUIRED, NO CRITICAL RADIANT FLUX RATING IS REQUIRED.



**A & S COURIER INTERNATIONAL, LLC**

**SHEET LIST**

SP-1 SITE PLAN

A-1 FLOOR PLAN

A-2 DOOR AND WINDOW SCHEDULES

A-3 LIFE SAFETY

A-4 DETAILS

A-5 WALL DETAILS

S-1 FLOOR FRAMING PLAN

S-2 BUILDING SECTION

S-3 BUILDING SECTION

S-4 STAIRCASE 1 SECTION

S-5 STAIRCASE 2 SECTION

S-6 ROOF RTU SUPPORT PLAN

M-1 MECHANICAL (HVAC) PLAN

M-2 MECHANICAL ROOF PLAN AND NOTES

M-3 MECHANICAL DETAILS AND CALCULATION

E-1 ELECTRICAL LIGHTING PLAN

E-2 ELECTRICAL POWER PLAN

E-3 ELECTRICAL PANELS AND ELECTRIC RISER DIAGRAM

P-1 PLUMBING PLAN

P-2 PLAN VIEW SANITARY

P-3 PLAN VIEW WATER

GN-1 GENERAL NOTES



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| NO. | DATE | REVISIONS | DESCRIPTION |
|-----|------|-----------|-------------|
|     |      |           |             |
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|     |      |           |             |

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 FLORIDA LICENSE AA-26001926



**COMMERCIAL INTERIOR BUILDOUT**  
**A&S COURIER INTERNATIONAL, LLC**  
**7620 NW 25th STREET**  
**MIAMI FLORIDA, 33122**

CLIENT  
**HERNAN LIGO**

DESIGNED BY:  
**PHILIP D. AGUIRRE**

DRWN: **JLL - BA** START DATE: **9-11-2015**

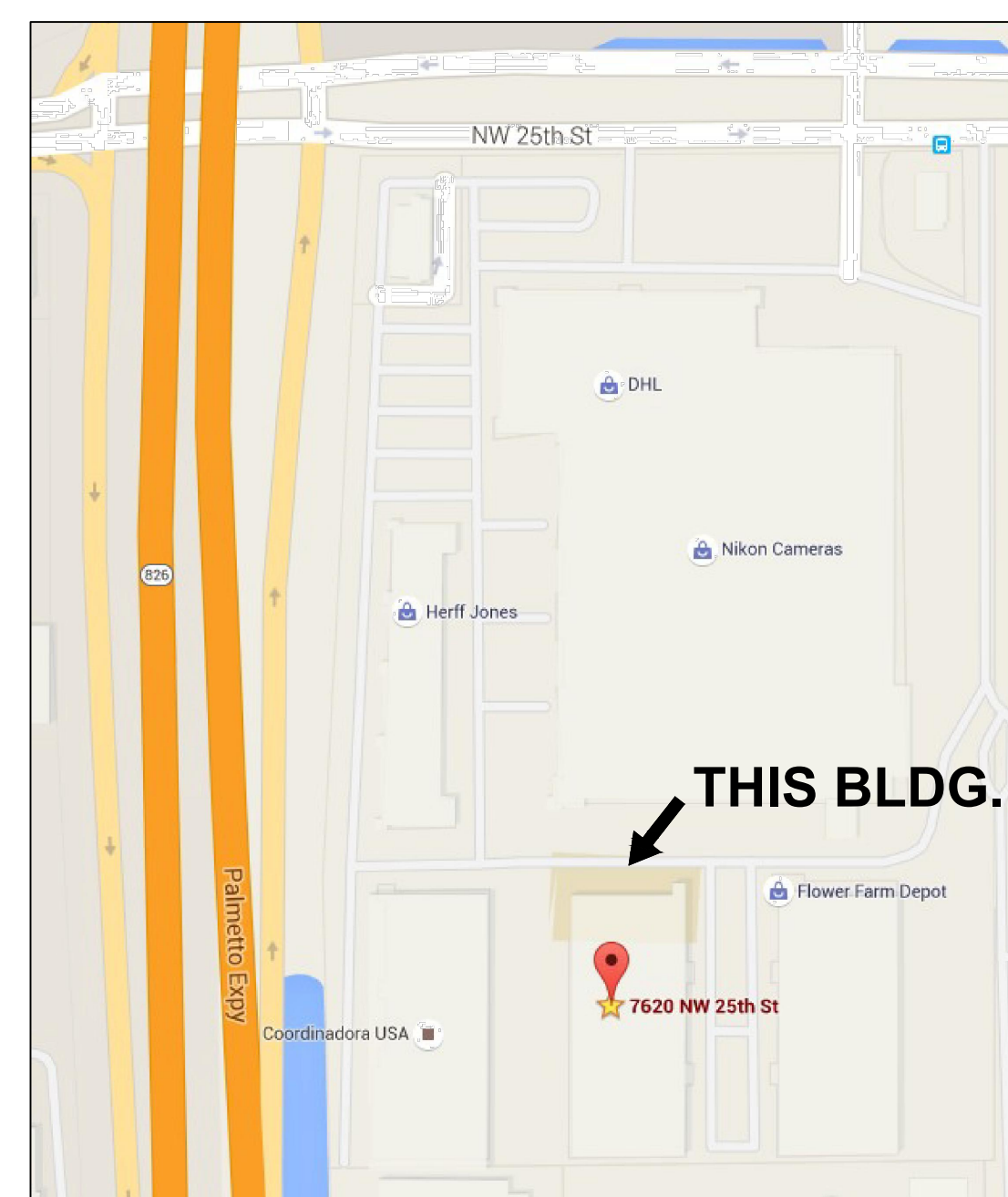
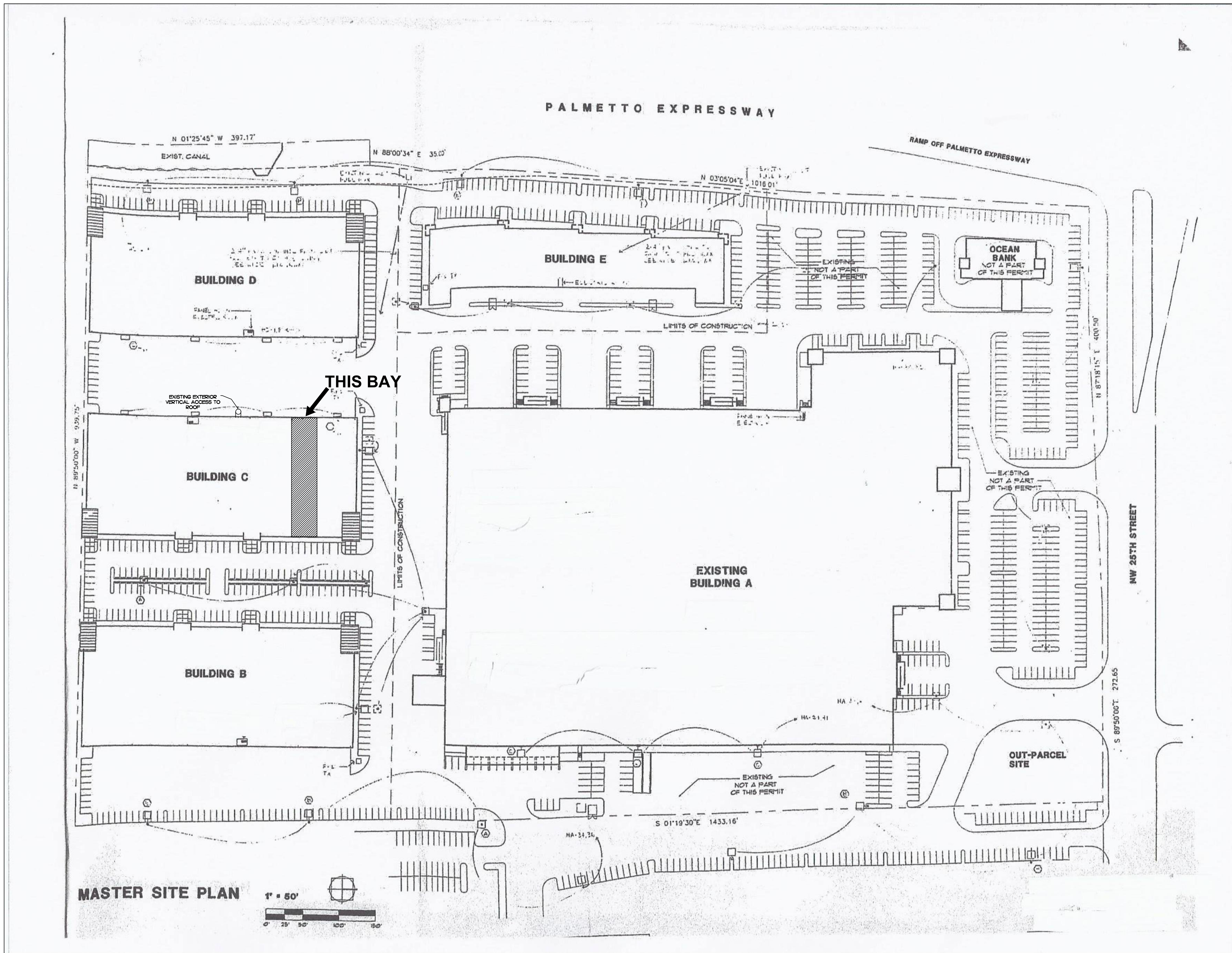
CHKD: **P.D.A.** ISSUE DATE: **9-25-2015**

SIGN & SEAL

DATE:  
**PHILIP D. AGUIRRE, R.A.**  
**FL-AR0092740**

ACAD DWG: **PHILIP D. AGUIRRE** PROJ. NO.: **15-46**  
 SER. VER. / S. / 8TH GROUP INC.

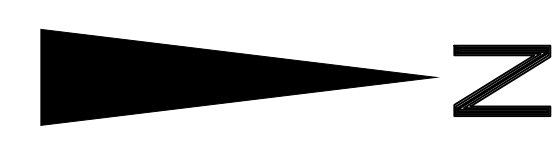
SHEET  
**SP-1**



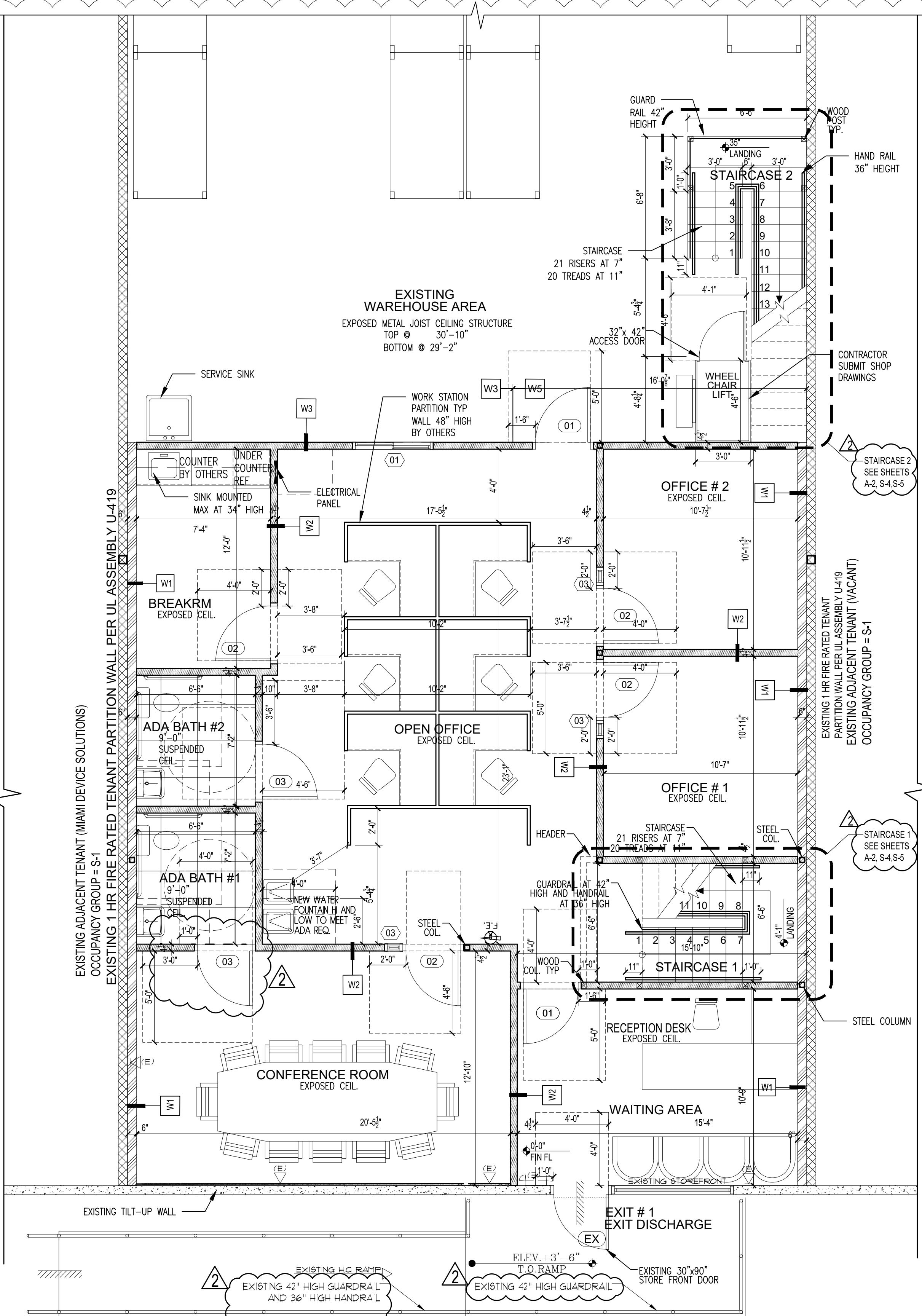
**SCOPE OF WORK**

THE SCOPE OF WORK OF THIS PROJECT IS LIMITED TO THE INTERIOR MODIFICATION OF EXISTING WAREHOUSE.  
 THE BUILDING SHELL, SITE WORK, SHELL HVAC ARE EXISTING AND THE SCOPE OF WORK WILL NOT DISTURB THE MENTIONED SYSTEMS WHICH HAVE BEEN CONSTRUCTED AND INSTALLED UNDER A SEPARATE PERMIT AND CONTRACT.

**SITE PLAN**  
 SCALE: N.T.S.



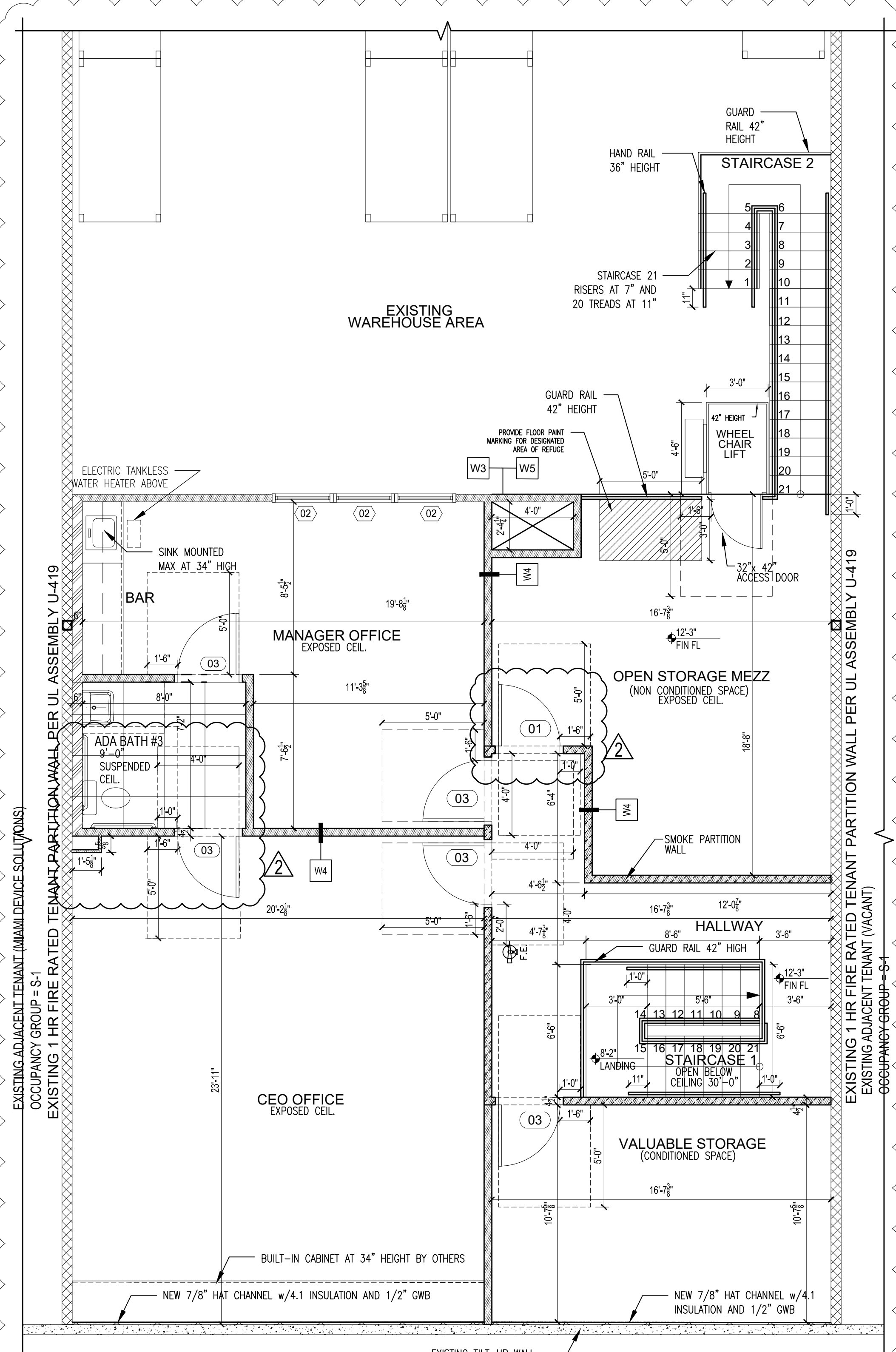




**GROUND FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

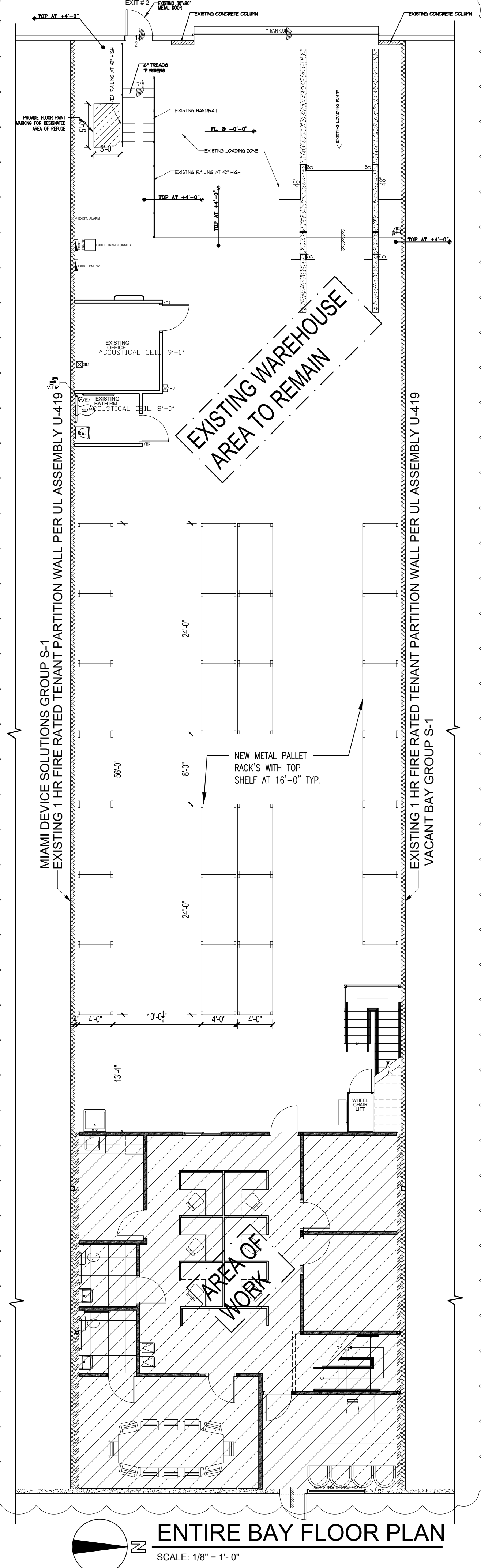
FIRE: SMOKE BARRIER PARTITION LABELING

NOTE: ALL 1 HR FIRE RATED AND SMOKE BARRIER PARTITIONS SHALL BE PERMANENTLY IDENTIFIED WITH SIGN OR STENCIL WITH LETTERS NOT LESS THAN 3" HEIGHT W/ MIN 3/8" STROKE IN CONTRASTING COLOR WITH WORDING "FIRE AND OR SMOKE BARRIER PROTECT ALL OPENINGS", TO BE LOCATED WITHIN 15' OF END @ 30' INTERVALS.



**MEZZANINE FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

| LEGEND |                                      |  |   |
|--------|--------------------------------------|--|---|
| (E)    | EXISTING                             |  | NEW NON LOAD BEARING INT. PARTITION WALL      |
| (N)    | NEW                                  |  | SMOKE PARTITION WALL                          |
| (EX)   | WINDOW MARK                          |  | EXISTING TILT UP WALL                         |
| (EX)   | DOOR MARK                            |  | NEW WORK STATION 48" HIGH (BY OTHERS)         |
| W1     | WALL MARK                            |  | EXISTING FIRE RATED TENANT PARTITION WALL     |
|        | LOAD BEARING INTERIOR PARTITION WALL |  | INDICATES ASSEMBLY USE FOR OCCUPANT LOAD ONLY |



**ENTIRE BAY FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

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| NO. | DATE    | DESCRIPTION       |
|-----|---------|-------------------|
| 1   | 12-8-15 | PER CITY COMMENTS |
| 2   | 1-12-16 | PER CITY COMMENTS |

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FLORIDA LICENSE AA-26001926

**COMMERCIAL INTERIOR BUILDOUT**  
**416 COURIER INTERNATIONAL LLC**  
1620 NW 28th STREET  
BUILDING "C" UNIT # 2  
MIAMI, FLORIDA, 33122

CLIENT  
**HERNAN LUGO**

DESIGNED BY:  
**PHILIP D. AGUIRRE**

DRWN: START DATE  
**JUL - BA 9-11-2015**

CHKD: ISSUE DATE  
**P.D.A. 9-25-2015**

SIGN & SEAL

DATE:  
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ACAD DWG PROJ NO.  
**SERVER / S / 15-46**  
BY GROUP

SHEET  
**A-1**



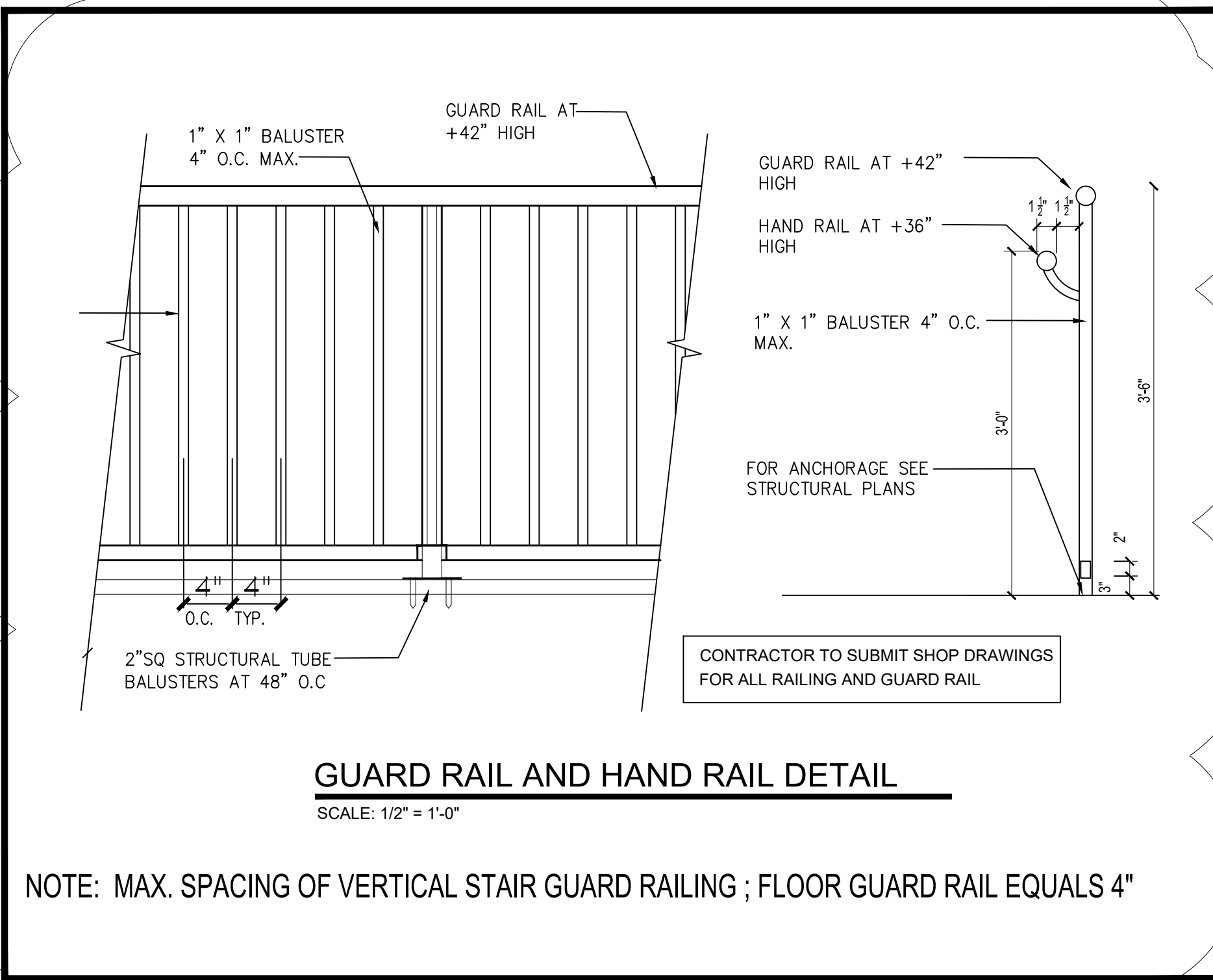
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**REVISIONS**

| NO. | DATE    | DESCRIPTION       |
|-----|---------|-------------------|
| 1   | 12-8-15 | PER CITY COMMENTS |
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**LEGEND:**  
 LWD - LAMINATED WOOD  
 C. TILE - CERAMIC TILE  
 GYP. BD. - GYPSUM BOARD  
 S.A.C. - SUSPENDED ACOUSTICAL CEILING

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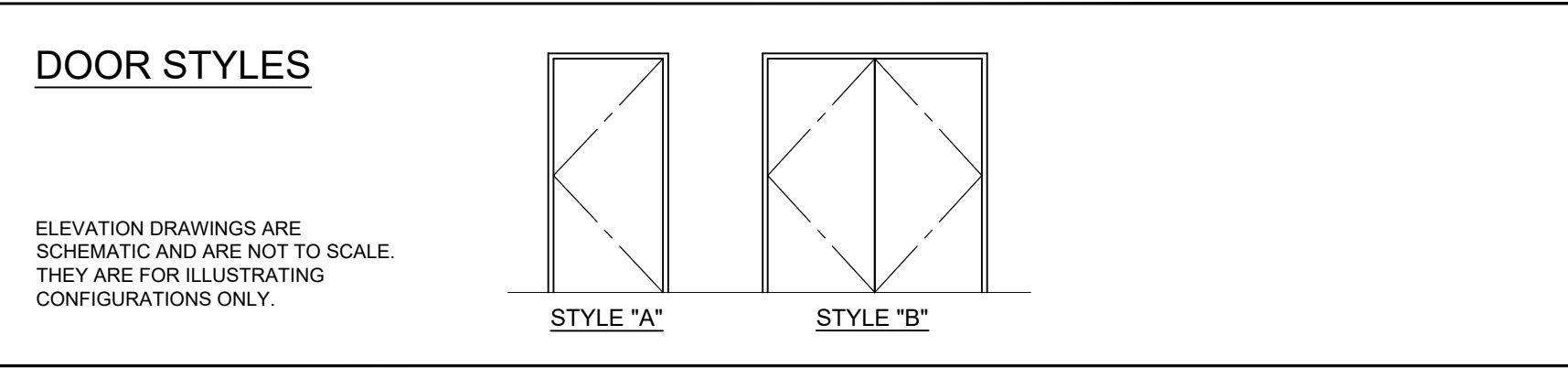


**DOOR SCHEDULE**

| MARK | SIZE     |        | THICKNESS | DOOR STYLE | MATERIAL |       |              |       |       |         |         |       |        |       | GLAZING | REMARKS |      |              |          |       |             |             |           |       |                       |
|------|----------|--------|-----------|------------|----------|-------|--------------|-------|-------|---------|---------|-------|--------|-------|---------|---------|------|--------------|----------|-------|-------------|-------------|-----------|-------|-----------------------|
|      | WIDTH    | HEIGHT |           |            | WOOD     | GLASS | WOOD / GLASS | METAL | FLUSH | BI-FOLD | SLIDING | SOLID | HOLLOW | GLASS |         |         | WOOD | HOLLOW METAL | ALUMINUM | PAINT | STAIN GRADE | FIRE RATING | THRESHOLD | WIDTH | HEIGHT                |
| EX   | EXISTING |        |           |            |          |       |              |       |       |         |         |       |        |       |         |         |      |              |          |       |             |             |           |       |                       |
| 01   | 36"      | 80"    | 1 3/4"    | A          |          |       |              |       |       |         |         |       |        |       |         |         |      |              |          |       |             |             | 2         |       | AUTOMATIC DOOR CLOSER |
| 02   | 36"      | 80"    | 1 3/8"    | A          |          |       |              |       |       |         |         |       |        |       |         |         |      |              |          |       |             |             | 1         |       |                       |
| 03   | 36"      | 80"    | 1 3/8"    | A          |          |       |              |       |       |         |         |       |        |       |         |         |      |              |          |       |             |             | -         |       | AUTOMATIC DOOR CLOSER |

**HARDWARE GROUP(s)**

|          |                       |
|----------|-----------------------|
| TYPE "1" | LEVER w/ PRIVACY LOCK |
| TYPE "2" | LEVER w/ LATCH        |

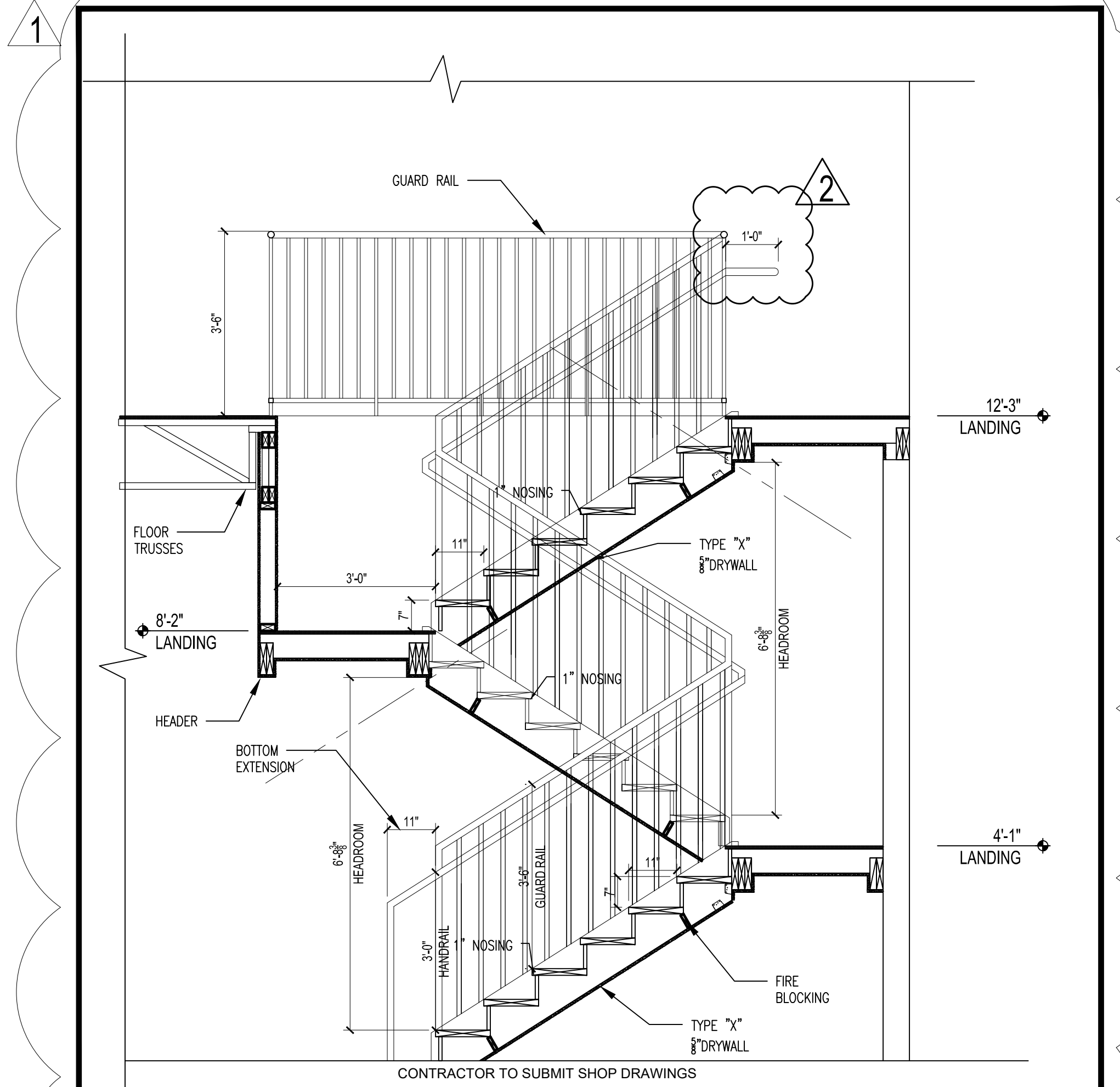
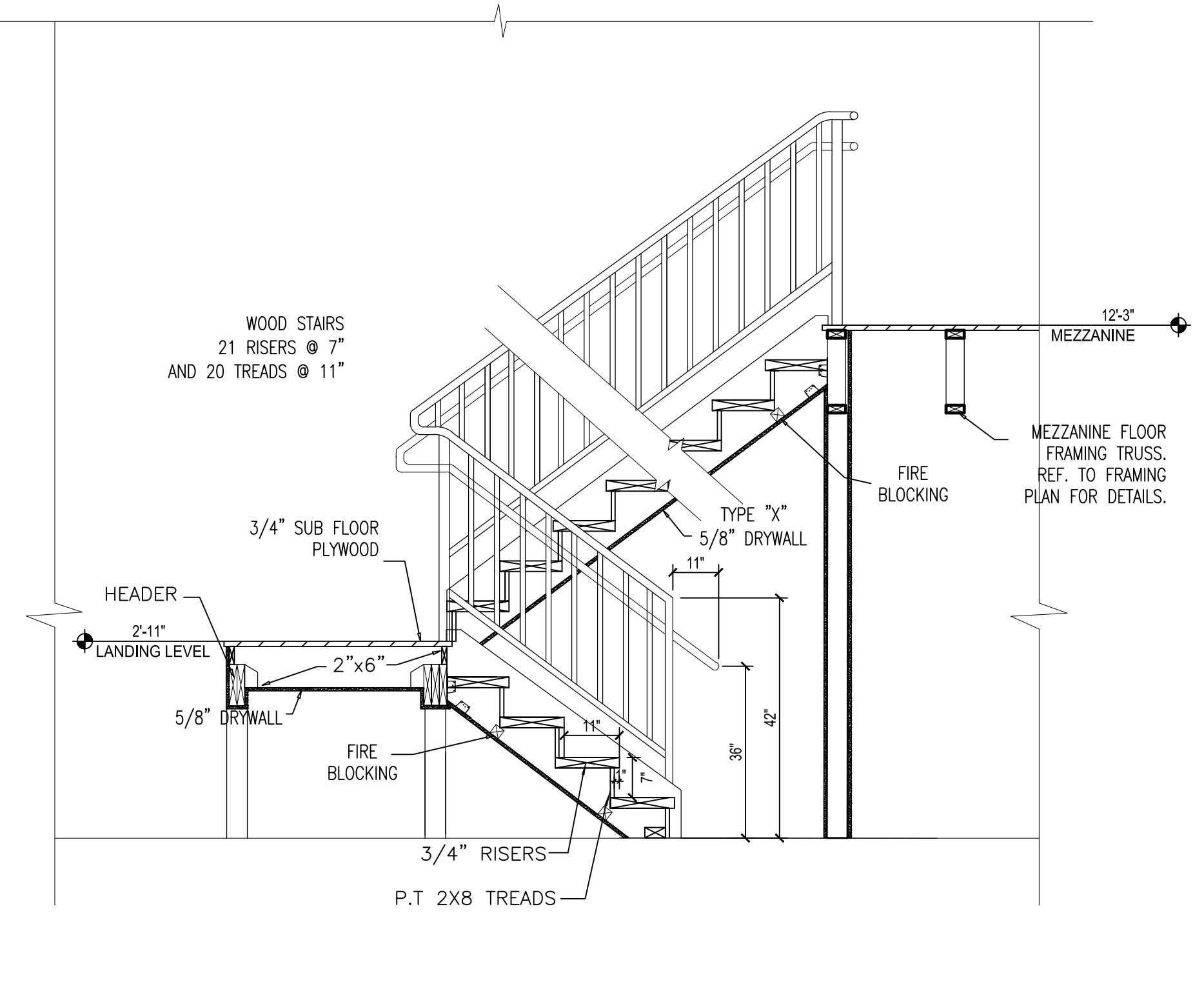
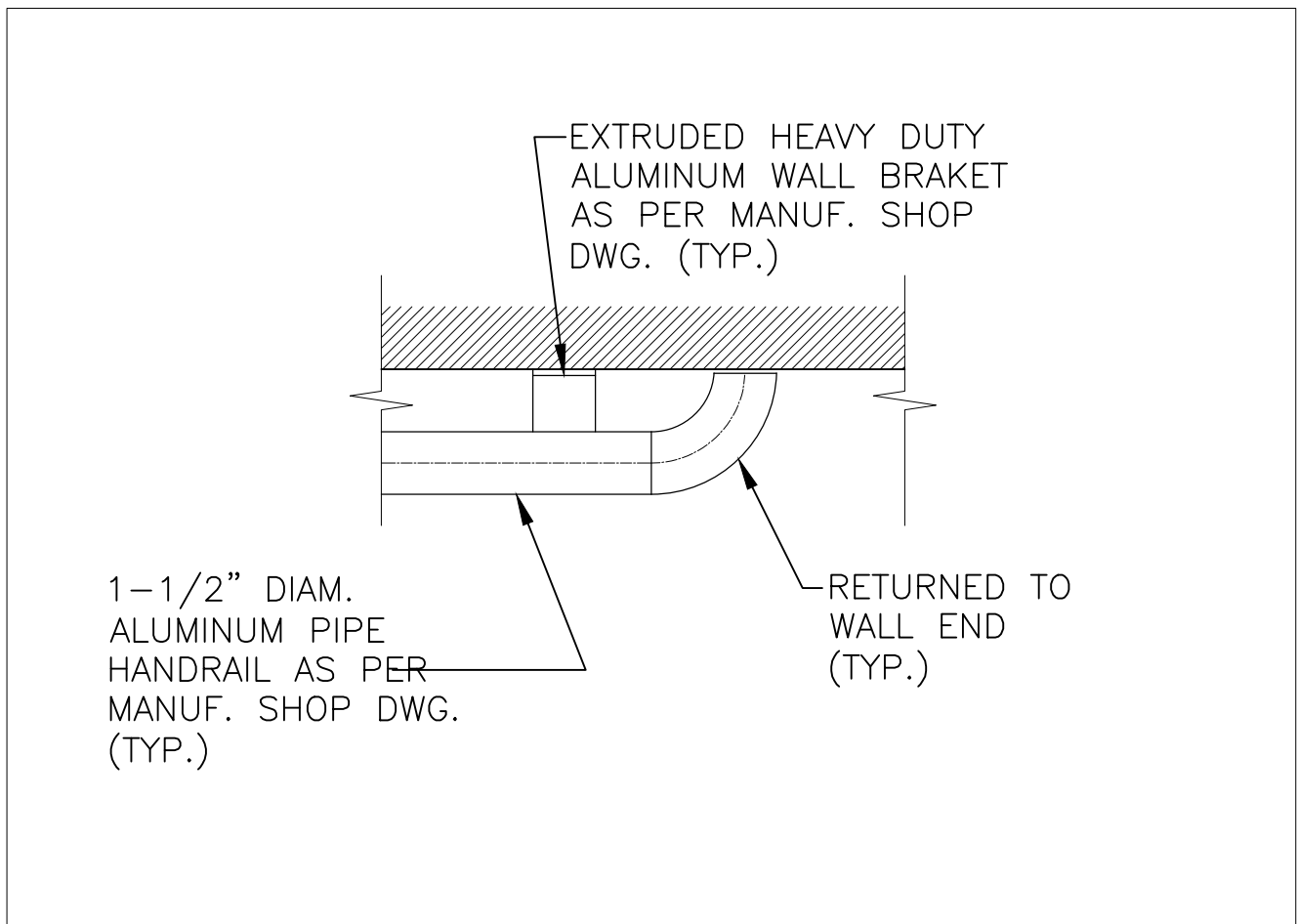
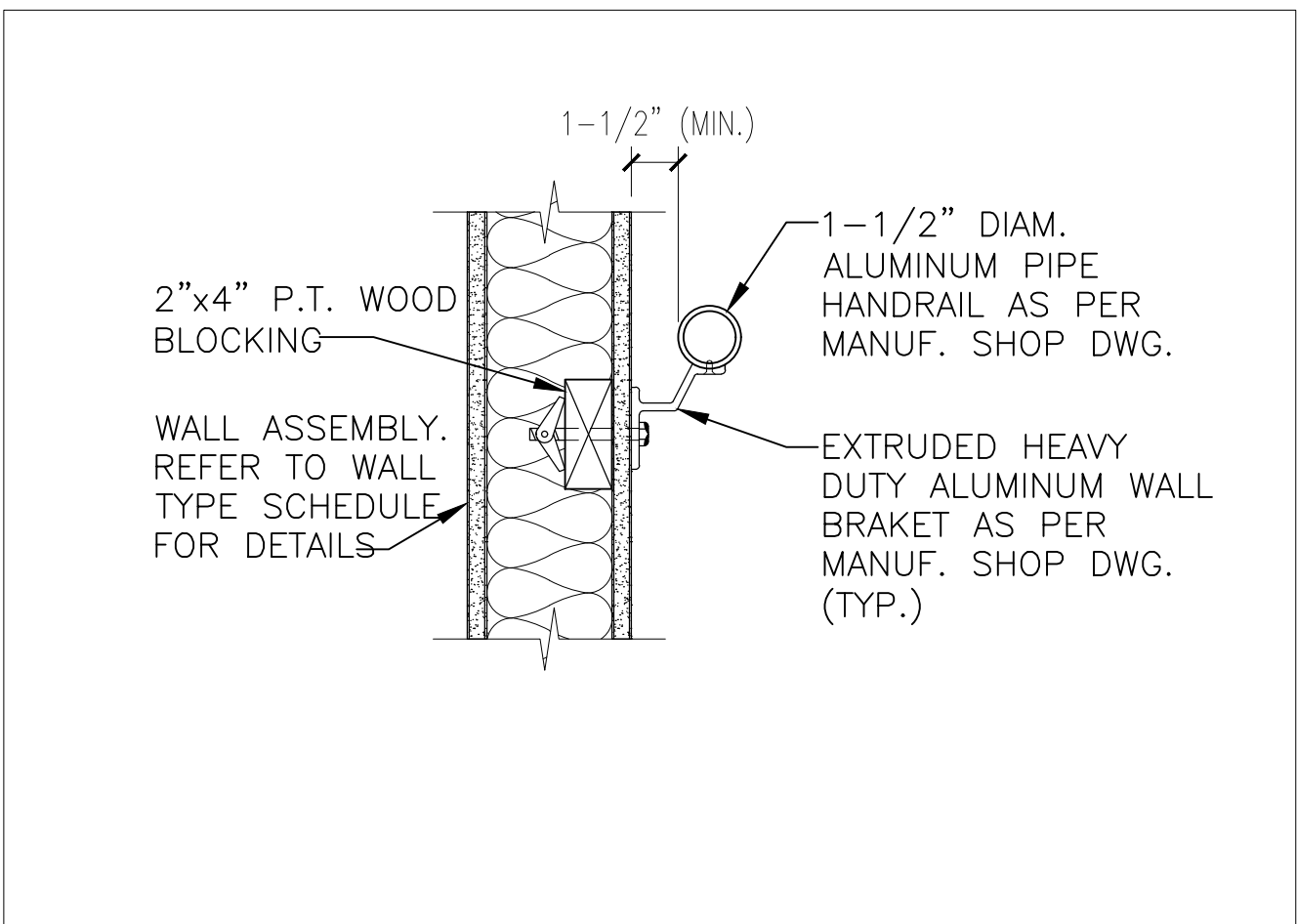


**WINDOW SCHEDULE**

| MARK | WIDTH    | HEIGHT | MATL     | TYPE        | REMARKS                  |
|------|----------|--------|----------|-------------|--------------------------|
| EX   | EXISTING |        |          |             |                          |
| 01   | 53"      | 38"    | ALUMINUM | H.R. 33     | SLIDING OPERABLE WINDOW  |
| 02   | 36"      | 38"    | ALUMINUM | FIXED GLASS |                          |
| 03   | 12"      | 80"    | ALUMINUM | FIXED GLASS | SAFETY GLASS CATEGORY II |

**ROOM FINISH SCHEDULE**

| NAME             | CLG HT | FLOOR   | BASE    | WALLS          | CEILING | NOTES |
|------------------|--------|---------|---------|----------------|---------|-------|
| RECEPTION        | -      | C. TILE | WOOD    | GYP. BD. PAINT | EXPOSED | -     |
| CONFERENCE ROOM  | -      | LWD     | WOOD    | GYP. BD. PAINT | EXPOSED | -     |
| BREAK ROOM       | -      | C. TILE | WOOD    | GYP. BD. PAINT | EXPOSED | -     |
| OPEN OFFICE      | -      | C. TILE | WOOD    | GYP. BD. PAINT | EXPOSED | -     |
| OFFICE #1        | -      | C. TILE | WOOD    | GYP. BD. PAINT | EXPOSED | -     |
| OFFICE #2        | -      | C. TILE | WOOD    | GYP. BD. PAINT | EXPOSED | -     |
| (2) PRVT. BATH   | 108"   | C. TILE | C. TILE | GYP. BD. PAINT | S.A.C.  | -     |
| ADA BATH         | 108"   | C. TILE | C. TILE | GYP. BD. PAINT | S.A.C.  | -     |
| CEO OFFICE       | -      | LWD     | WOOD    | GYP. BD. PAINT | EXPOSED | -     |
| MANAGER OFFICE   | -      | LWD     | WOOD    | GYP. BD. PAINT | EXPOSED | -     |
| HALLWAY          | -      | C. TILE | WOOD    | GYP. BD. PAINT | EXPOSED | -     |
| VALUABLE STORAGE | -      | C. TILE | WOOD    | GYP. BD. PAINT | EXPOSED | -     |
| STAIRCASE        | -      | LWD     | WOOD    | GYP. BD. PAINT | EXPOSED | -     |



**COMMERCIAL INTERIOR BUILDOUT**

**416 COURIER INTERNATIONAL, LLC**  
 1620 NW 25th STREET  
 MIAMI, FLORIDA, 33122

CLIENT: **HERNAN LUGO**

DESIGNED BY: **PHILIP D. AGUIRRE**

DRWN: **J.J.L. - BA** START DATE: **9-11-2015**

CHKD: **P.D.A.** ISSUE DATE: **9-25-2015**

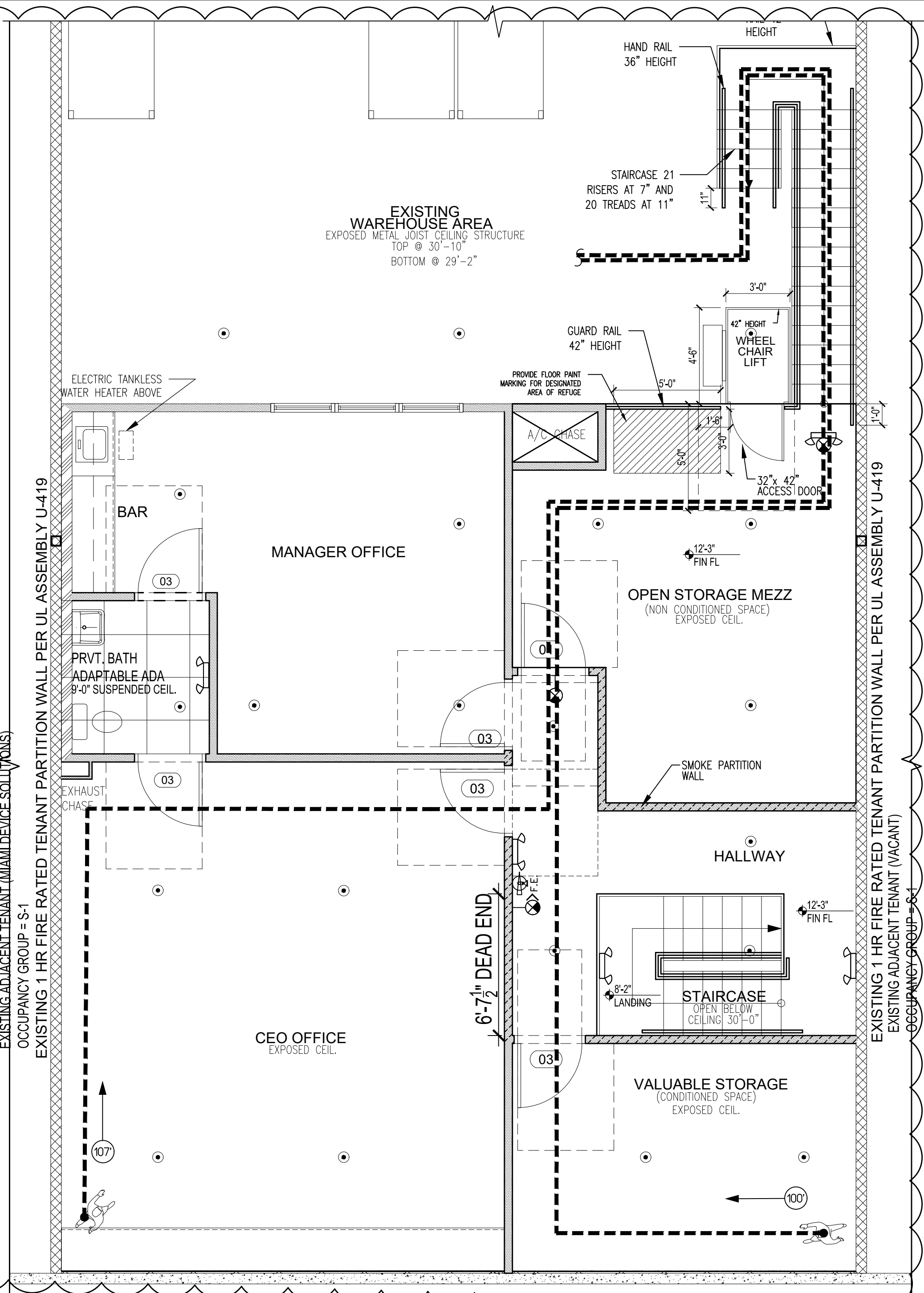
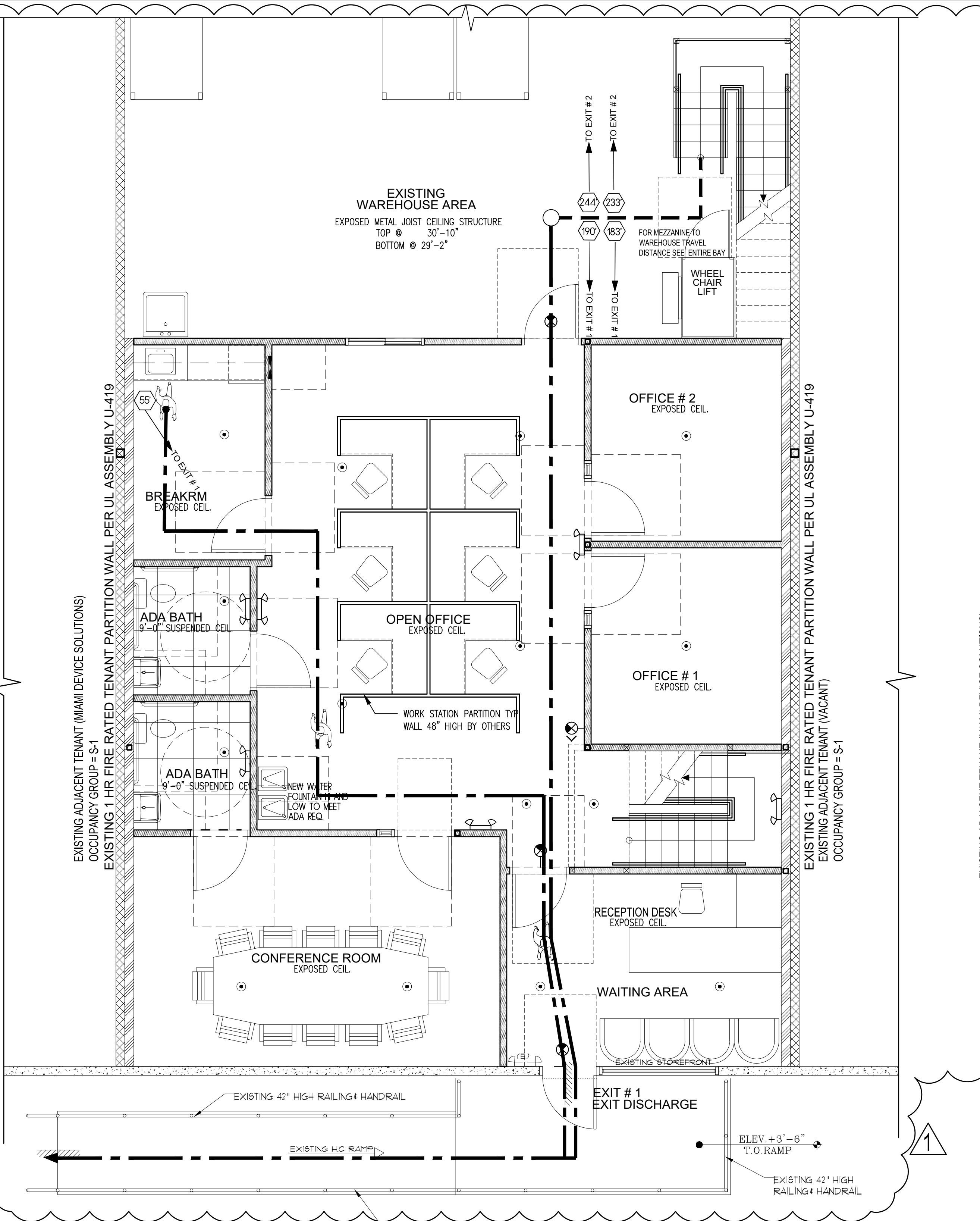
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DATE: **PHILIP D. AGUIRRE, R.A. FL-AR0092740**

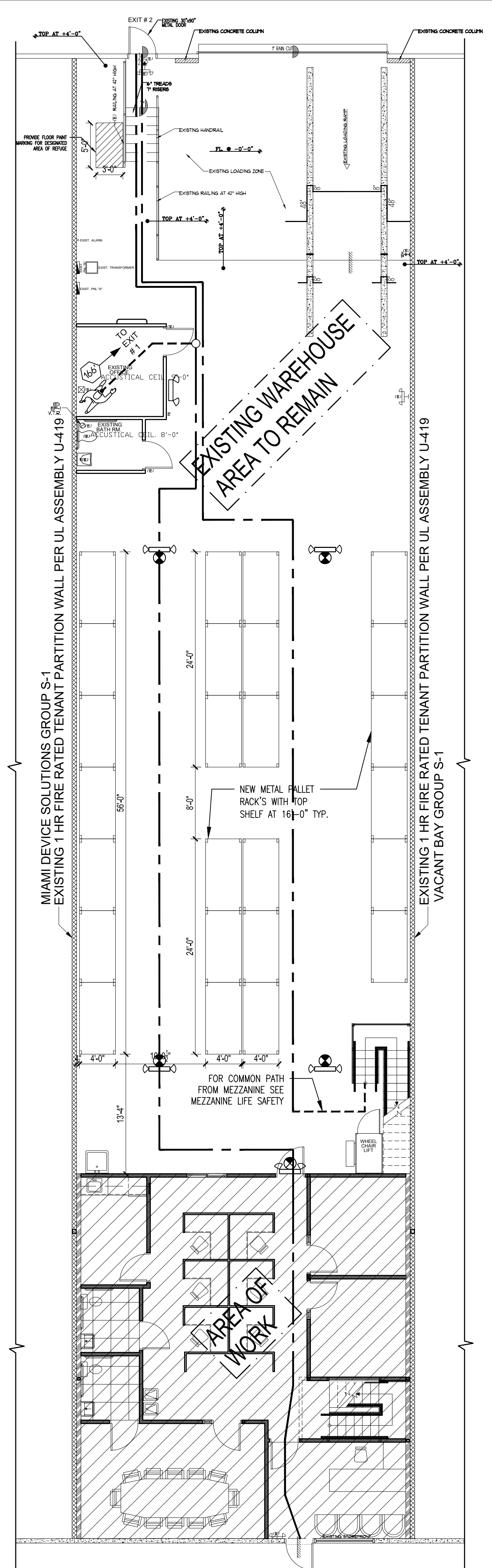
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SHEET **A-2**





**MEZZANINE LIFE SAFETY**  
SCALE: 1/4" = 1'-0"



**ENTIRE BAY LIFE SAFETY**  
SCALE: 1/8" = 1'-0"

| LIFE SAFETY LEGEND |  |
|--------------------|--|
| SYMBOL             | DESCRIPTION  |
| ◇ 170              | CAPACITY OF EGRESS COMPONENT (BASED UPON NET CLEAR WIDTH DIVIDED BY USE FACTOR i.e., 34" / 0.2 = 170)  |
| →                  | INDICATES COMMON PATH  |
| ○ →                | INDICATES PATH OF EXIT ACCESS TRAVEL DISTANCE  |
| ○ 100              | INDICATES COMMON PATH OF EGRESS  |
| ○ 100              | INDICATES EXIT ACCESS TRAVEL DISTANCE  |
| F.E.               | 10 LB ABC FIRE EXTINGUISHER TO COMPLY w/ NFPA 10   |
| ⊗                  | INDICATES WALL MOUNTED "EXIT" SIGNAL W/ BATTERY BACK-UP AND SELF DIAGNOSTICS. U.O.N. LITHONIA MDL # LGM S W 3R 120/277 EL N SD OR EQUAL. HATCH AREA INDICATES FACE OF SIGN |
| ⊗                  | INDICATES WALL MOUNTED COMBO EMERGENCY LIGHT EXIT SIGN FIXTURE W/ BATTERY BACK-UP AND SELF DIAGNOSTICS   |
| ⊗                  | INDICATES CEILING MOUNTED EXIT SIGN WITH CHEVRON, FIXTURE W/ BATTERY BACK-UP AND SELF DIAGNOSTICS  |
| ⊗                  | INDICATES WALL MOUNTED EMERGENCY LIGHT FIXTURE W/ BATTERY BACK-UP AND SELF DIAGNOSTICS   |
| ⊙                  | INDICATES FIRE SPRINKLERS  |

- GENERAL NOTES:**
- THIS PLAN SHOWS THE FOLLOWING:  
-EXIT ACCESS TRAVEL DISTANCE. (WORST CASE SCENARIO)  
-EXIT CAPACITY.  
-LOCATION OF EMERGENCY LIGHT FIXTURES.  
-LOCATION OF EXIT SIGNS.  
-LOCATION OF PORTABLE FIRE EXTINGUISHERS
  - ALL GLAZING ADJACENT TO PATHS OF EGRESS SHALL BE SAFETY GLAZED IN ACCORDANCE TO SECTION 2411.6.4 OF F.B.C. 5TH EDITION BUILD'S (2014)
  - THERE ARE NO SPECIAL MEANS OF EGRESS COMPONENTS SUCH AS DELAYED EGRESS, ACCESS CONTROLLED DOORS OR ANY SECURITY GRILLS WITHIN THIS PROJECT.
  - ALL DOORS IN THE MEANS OF EGRESS SHALL BE SINGLE ACTION RELEASE AND SHALL NOT REQUIRE THE USE OF A KEY, TOOL, OR SPECIAL KNOWLEDGE TO OPEN FROM EGRESS SIDE.
  - FIRE EXTINGUISHERS SHALL BE MOUNTED 48" A.F.F. TO TOP OF HANDLE, NOT TO EXCEED 75' TRAVEL DISTANCE, AND THEY WILL BE CURRENTLY TAGGED BY A LICENSED FIRE EQUIPMENT COMPANY.
  - TENANT TO MAINTAIN A 36" WIDE CLEAR PATH OF TRAVEL TO AND FROM REST ROOM AND EGRESS EXITS

**F.B.C. 2014 EDITION AND N.F.P.A. 101 CHAPTER MIN. TRAVEL DISTANCE, MEANS OF EGRESS**

**1. FOR NEW BUSINESS (MEZZ LEVEL)**  
COMMON PATH:  
BASED ON NFPA 101 SECTION 3825.31  
100 FEET MAX. ALLOWED

EXIT ACCESS TRAVEL DISTANCE:  
BASED ON NFPA 101 SECTION 382.6.3  
300 FEET MAX. ALLOWED

**2. FOR EXISTING BUSINESS (GROUND LEVEL)**  
COMMON PATH OF TRAVEL:  
BASED ON NFPA 101 SECTION 3825.31  
100 FEET MAX. ALLOWED

EXIT ACCESS TRAVEL DISTANCE:  
BASED ON NFPA 101 SECTION 382.6.3  
300 FEET MAX. ALLOWED

**3. FOR WAREHOUSE (REAR GROUND LEVEL)**  
COMMON PATH OF TRAVEL:  
BASED ON NFPA 101 SECTION 42.2.5 ORDINARY HAZARD STORAGE  
100 FEET

TRAVEL DISTANCE:  
BASED ON NFPA 101 SECTION 42.2.6 ORDINARY HAZARD STORAGE  
400 FEET

**4. MEANS OF EGRESS CEILING HEIGHT:**  
BASED ON F.B.C. SECTION 1003.2  
7'-6" MIN. REQUIRED  
12'-0" PROVIDED

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|-----|----------|-------------|-------------------|
| 1   | 12-28-15 |             |                   |

**P.A. architect, inc.**  
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e-mail: paguirre@pa-architect.com  
FLORIDA LICENSE AA-26001926

**COMMERCIAL INTERIOR BUILDOUT**  
416 COURIER INTERNATIONAL LLC  
1620 NW 28th STREET  
BUILDING "C" UNIT # 2  
MIAMI, FLORIDA, 33122

**CLIENT**  
HERNAN LUGO

**DESIGNED BY:**  
PHILIP D. AGUIRRE

**DRWN:** J.J.L. - BA  
**START DATE:** 9-11-2015

**CHKD:** P.D.A.  
**ISSUE DATE:** 9-25-2015

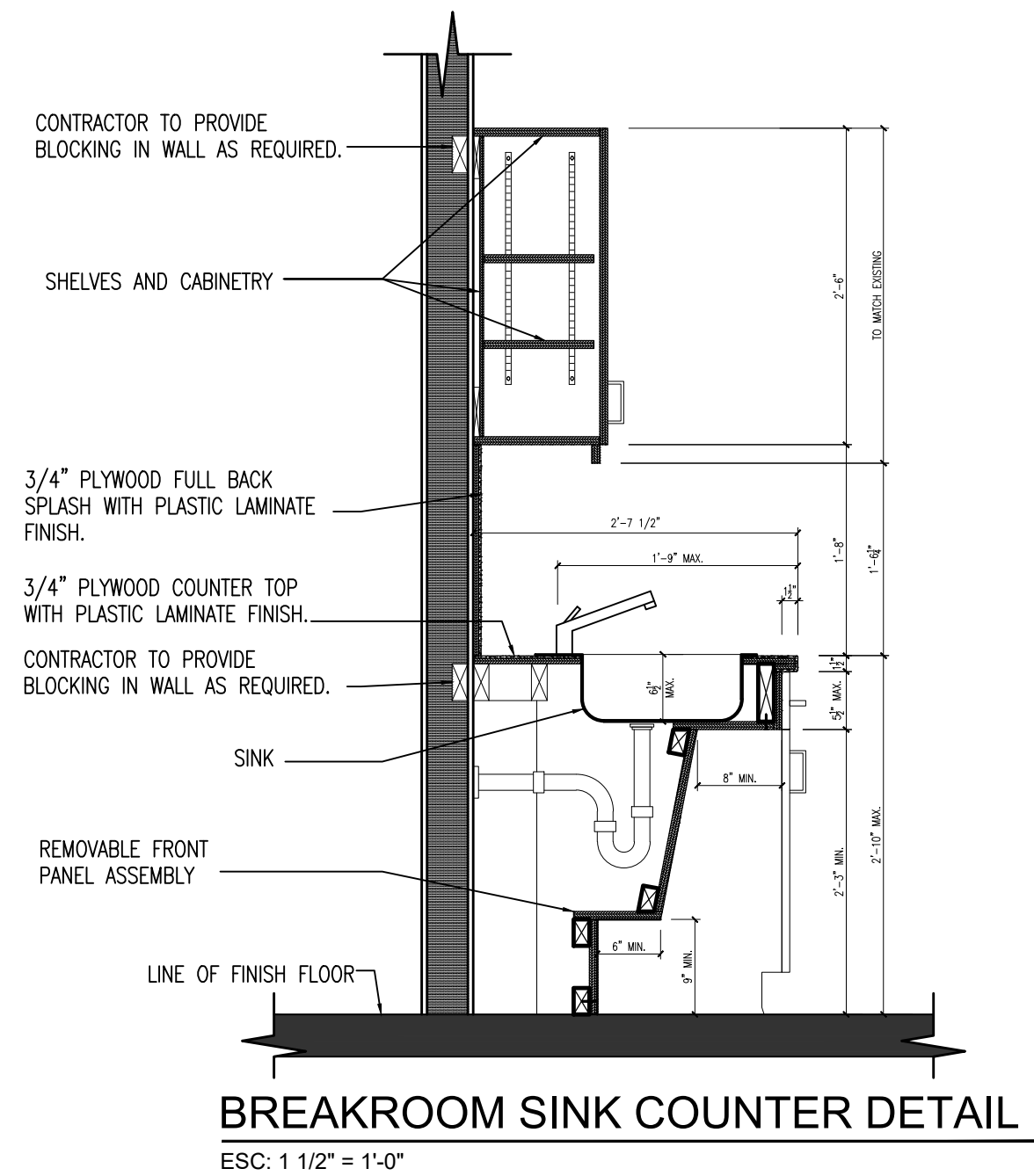
**SIGN & SEAL**

**DATE:** PHILIP D. AGUIRRE, R.A.  
FL-AR0092740

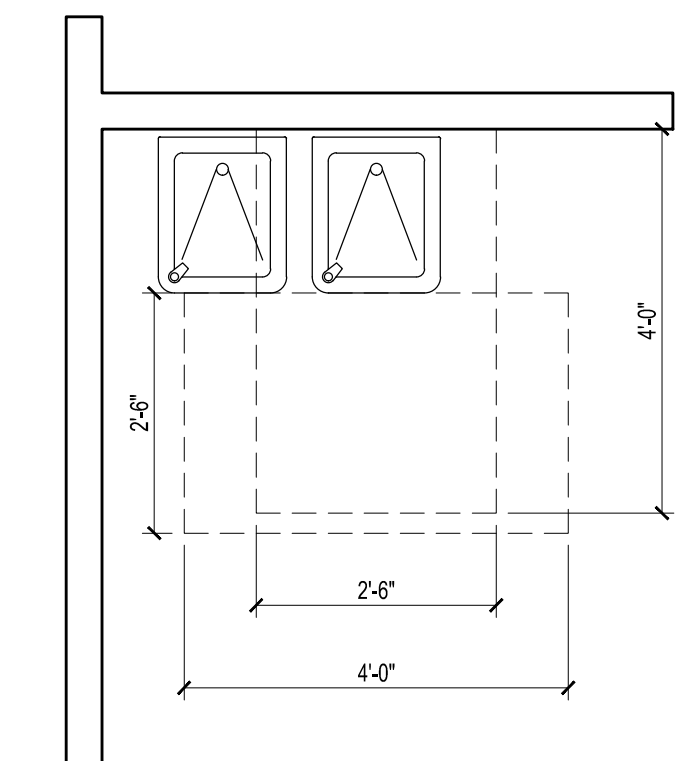
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**PROJ NO.:** 15-46

**SHEET:** A-3

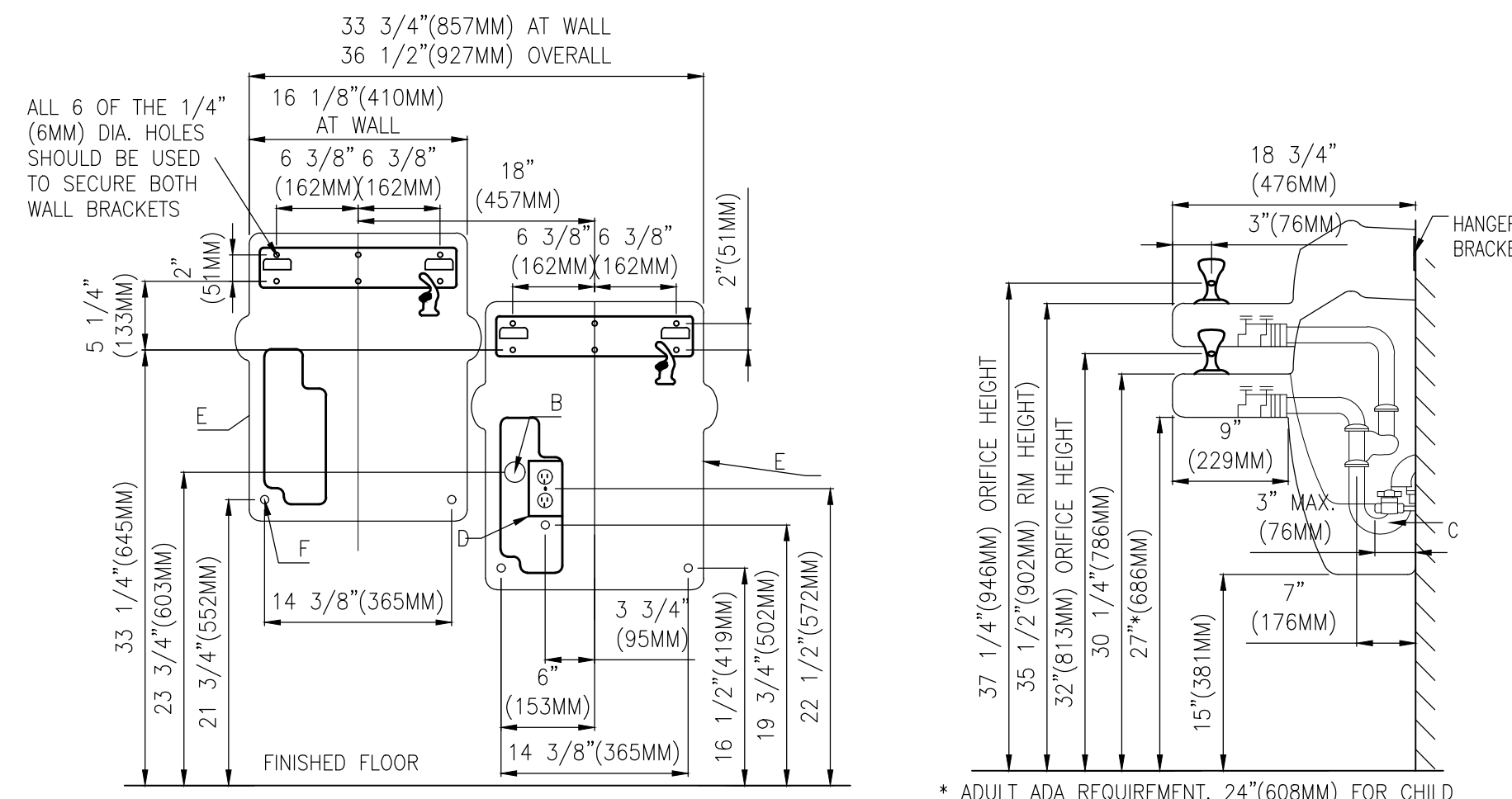




**BREAKROOM SINK COUNTER DETAIL**  
ESC: 1 1/2" = 1'-0"



**HI-LOW WATER FOUNTAIN**  
N.T.S.

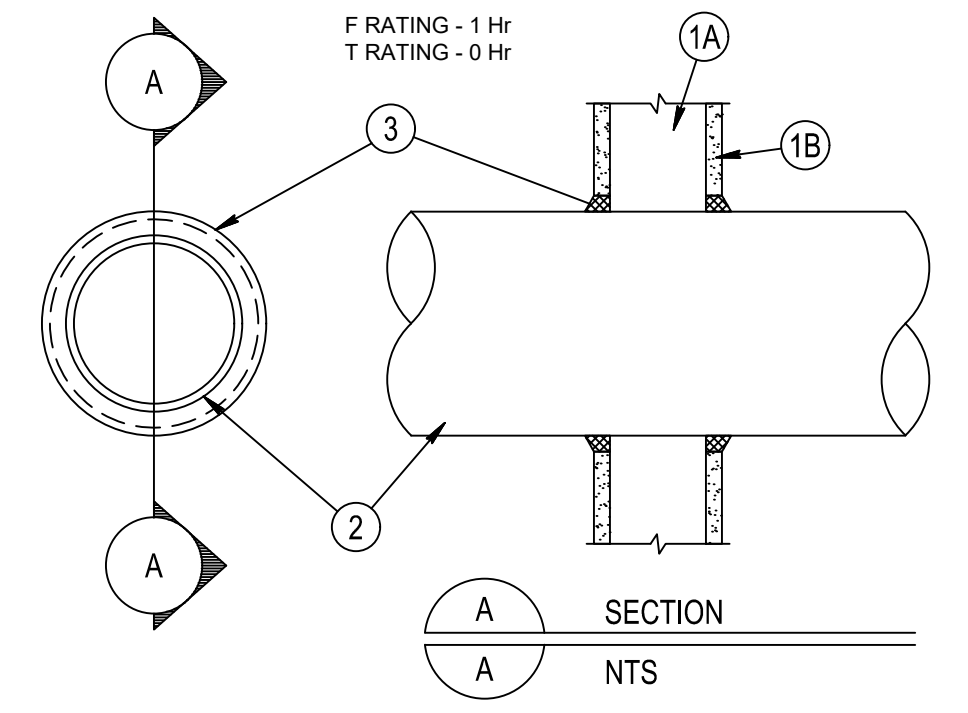


**FRONT VIEW / WALL LAYOUT**

**SIDE VIEW**

- LEGEND:**
- A = RECOMMENDED WATER SUPPLY LOCATION, SHUT OFF VALVE (NOT FURNISHED) TO ACCEPT 3/8" O.D. UNPLATED COPPER TUBE.
  - B = RECOMMENDED LOCATION FOR WASTE OUTLET 1 1/4" O.D. DRAIN.
  - C = 1 1/4" TRAP NOT FURNISHED
  - D = ELECTRICAL SUPPLY (3) WIRE RECESSED BOX.
  - F = INSURE PROPER VENTILATION BY MAINTAINING 6" (152MM) (MIN.) CLEARANCE FROM CABINET LOUVERS TO WALL.
  - F = 5/16" BOLT HOLES FOR FASTENING UNIT TO WALL.

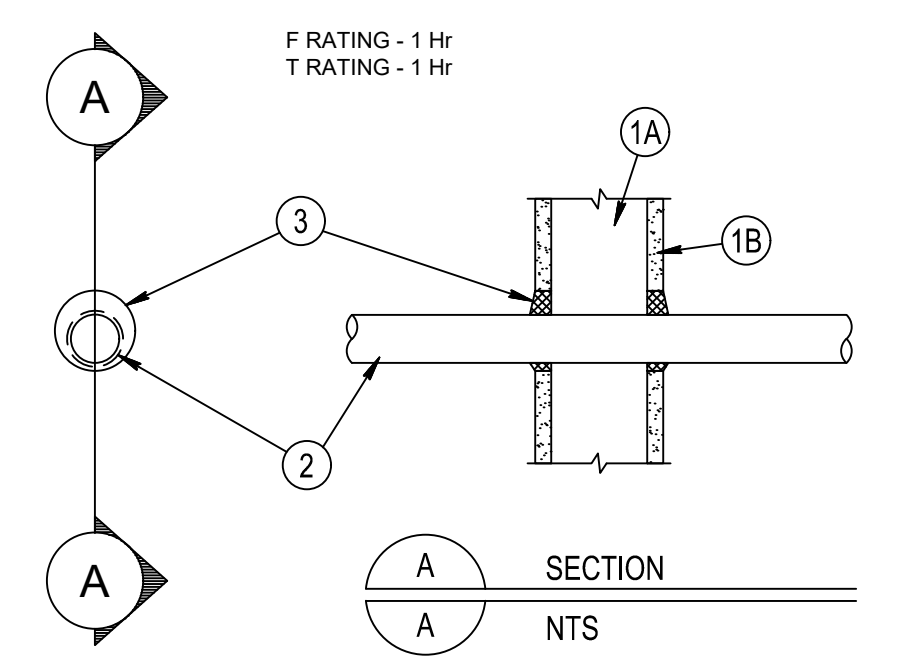
**HI-LOW WATER FOUNTAIN SECTIONS**  
N.T.S.



- 1 **WALL ASSEMBLY** - The fire-rated gypsum wall board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:  
A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 x 4 in. lumber spaced 16 in. O.C. Steel studs to be min. 2-1/2 in. wide and spaced max. 24 in. O.C.  
B. Wallboard Gypsum\* - One layer of nom. 5/8 in. thick gypsum wallboard as specified in the individual Wall and Partition Design. Max. diameter of opening is 13-1/4 in.
- 2 **THROUGH PENETRANTS** - One metallic pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The annular space between the through-penetrant and the periphery of the opening shall be min. 0 in. to max. 1/4 in. The following types and sizes of metallic pipe, conduits or tubing may be used:  
A. Steel Pipe - Nom. 12 in. diameter (or smaller) Schedule 10 (or heavier) steel pipe  
B. Iron Pipe - Nom. 12 in. diameter (or smaller) cast or ductile iron pipe  
C. Conduit - Nom. 6 in. diameter (or smaller) steel electrical metal tubing or steel conduit  
D. Copper Tubing - Nom. 6 in. diameter (or smaller) Type L (or heavier) copper tubing  
E. Copper Pipe - Nom. 6 in. diameter (or smaller) Regular (or heavier) copper pipe
- 3 **FILL, VOID OR CAVITY MATERIAL\* - CAULK** - Fill material to be forced into the annulus to maximum extent possible. Additional fill material to be installed such that a min 1/2 in. crown is formed around the penetrating item and lapping 1/4 in. beyond the periphery of the opening.  
\* the Rectorseal Corp. - Metacaulk 950  
\* Bearing the UL Classification Marking

**SYSTEM No. WL-1074**

**LARGE DIA. PIPE PENETRATION DETAIL**  
N.T.S.



- 1 **WALL ASSEMBLY** - The fire-rated gypsum wall board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:  
A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 x 4 in. lumber spaced 16 in. O.C. Steel studs to be min. 2-1/2 in. wide and spaced max. 24 in. O.C.  
B. Wallboard Gypsum\* - One layer of nom. 5/8 in. thick gypsum wallboard as specified in the individual Wall and Partition Design. Max. diameter of opening is 2-1/2 in.
- 2 **THROUGH PENETRANTS** - One metallic pipe or conduit for use in closed (process or supply) or vented (drain, waste or vent) piping systems, installed either concentrically or eccentrically within the firestop system. The annular space between the pipe or conduit and the edge of the opening shall be min. 3/8 in. to max. 13/16 in. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:  
A. Polyvinyl Chloride (PVC) Pipe - Nom. 3/4 in. diameter (or smaller) Schedule 40 solid core PVC pipe.  
B. Chlorinated Polyvinyl Chloride (CPVC) Pipe - Nom. 3/4 in. diameter (or smaller) SDR17 CPVC pipe.
- 3 **FILL, VOID OR CAVITY MATERIAL\* - CAULK** - Min. thickness of 5/8 in. of fill material applied within annulus between pipe or conduit and periphery of the opening, flush with both surfaces of wall assembly.  
Instant firestop Mfg. Inc. - 344-GG  
\* Bearing the UL Classification Marking

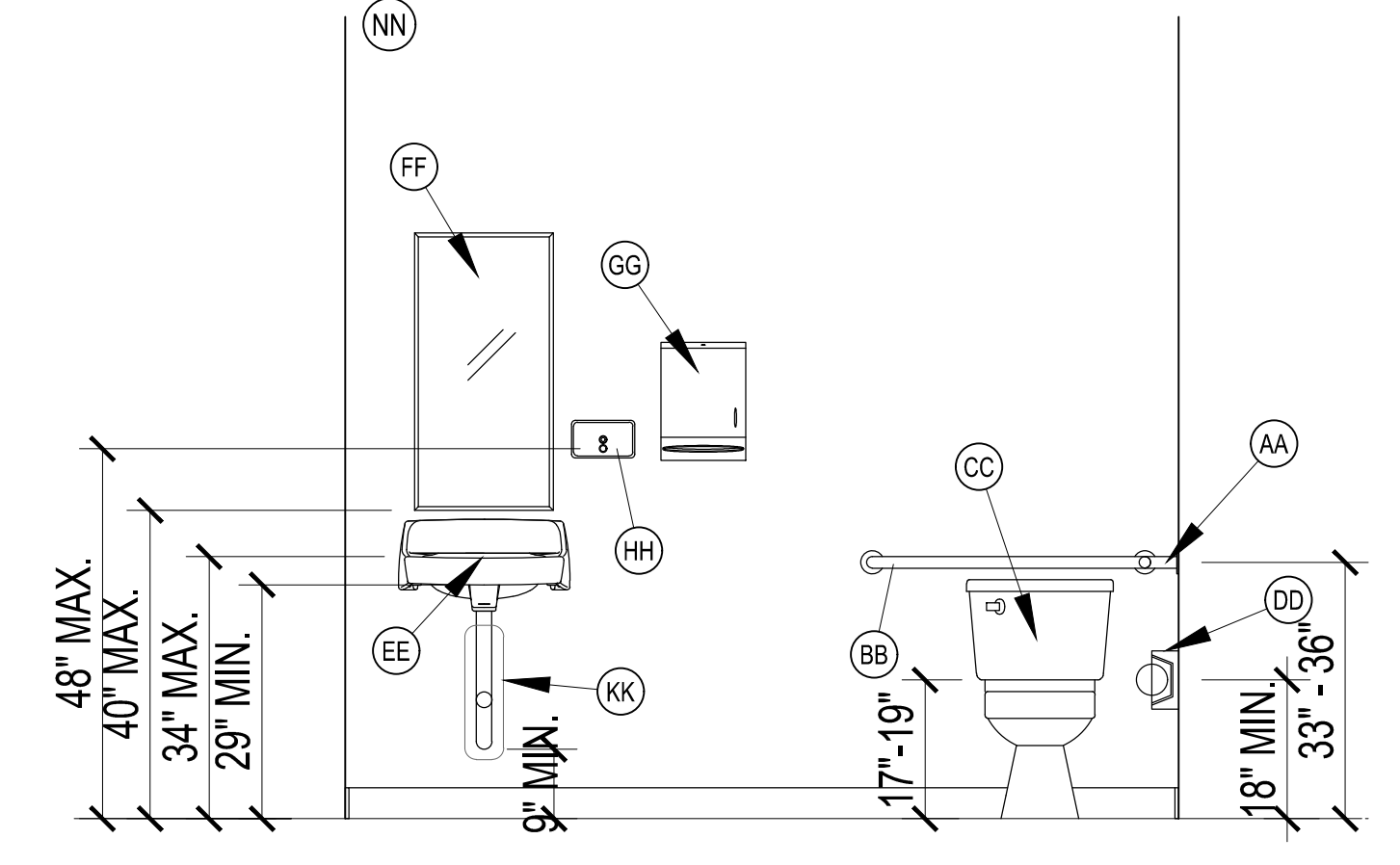
**SYSTEM No. WL-2089**

**SMALL DIA. PIPE PENETRATION DETAIL**  
N.T.S.

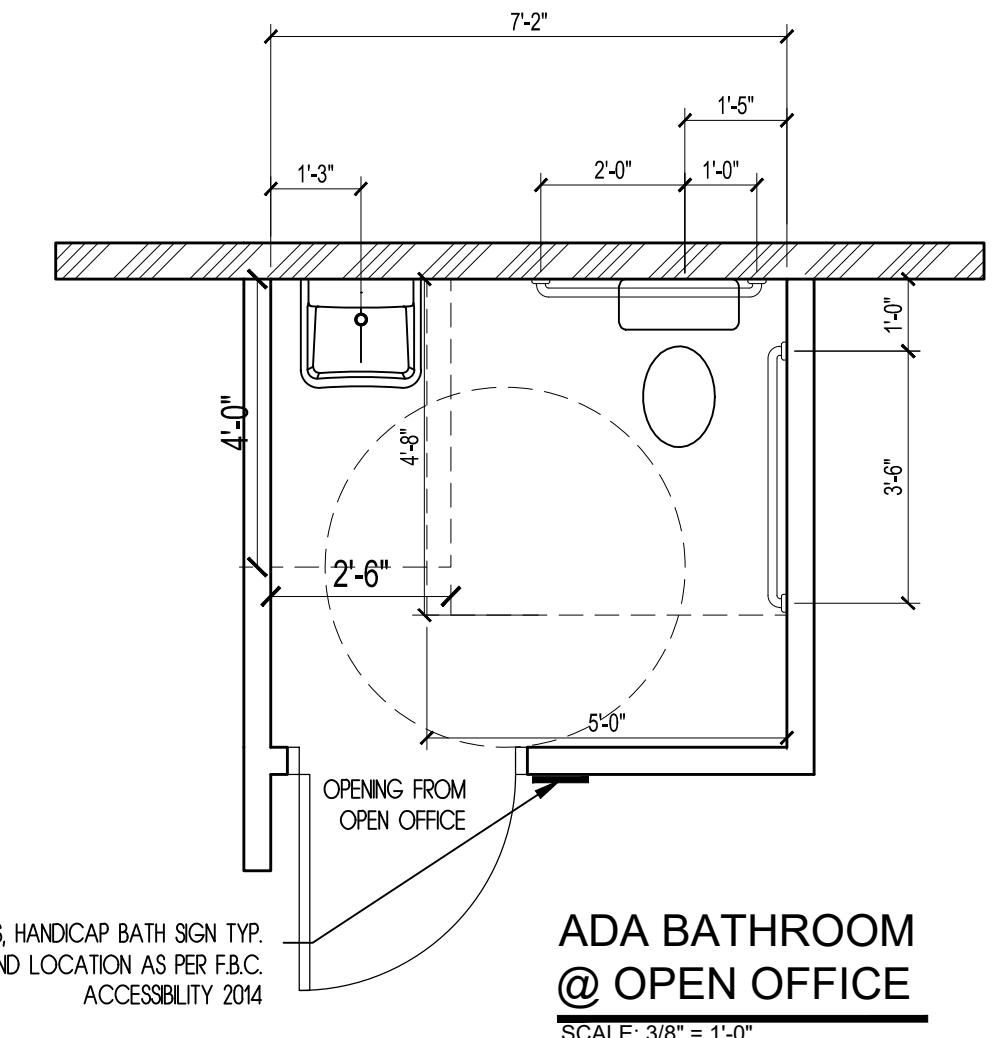
**RESTROOM KEY NOTES**  
**A.D.A. COMPLIANT**  
LETTERS "II," "JJ," "OO" & "QQ" NOT USED

NOTE: ALL FIXTURES TO MEET LATEST ADA REQUIREMENTS

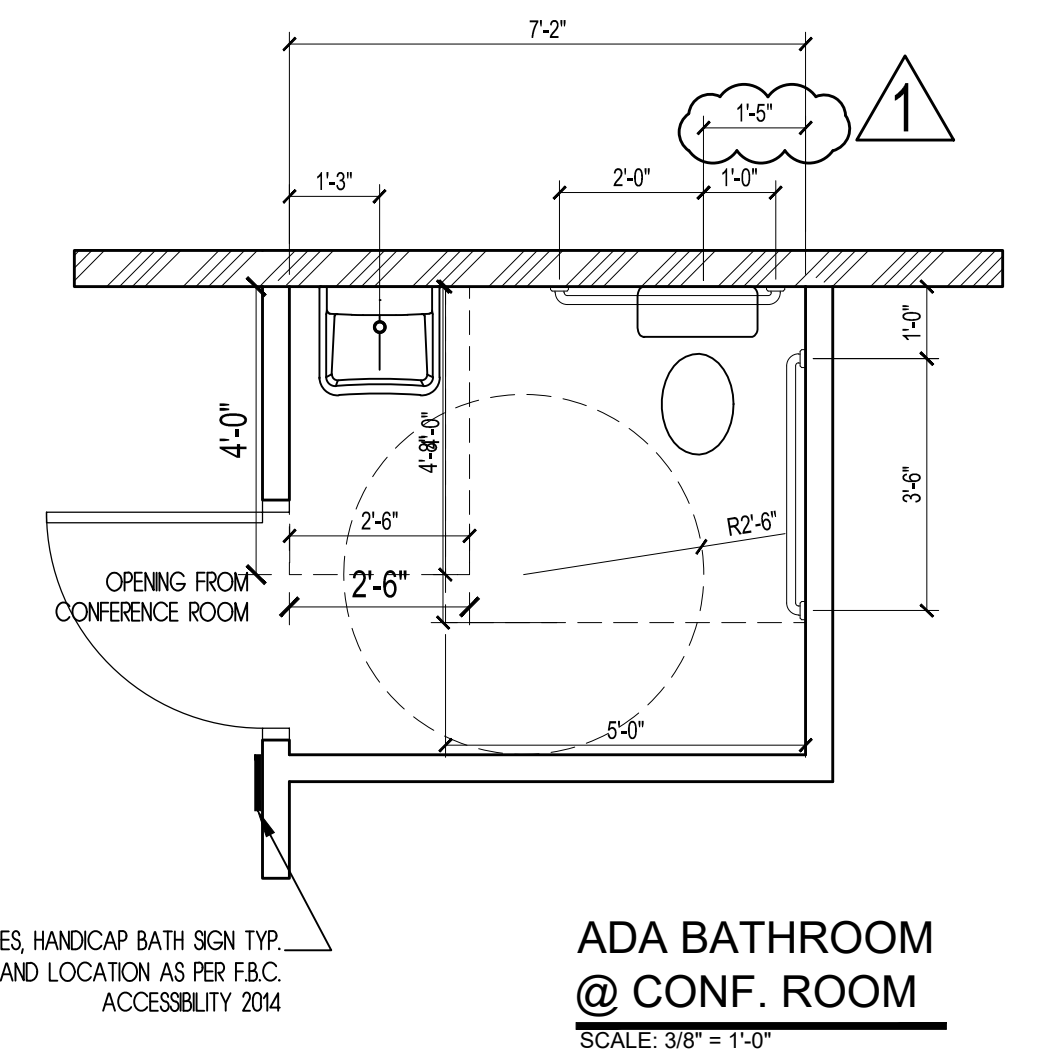
- AA GRAB BAR - SIDE - ADA COMPLIANT (MIN 42" LONG) MTD AT 2'-9" AFF. MIN.
- BB GRAB BAR - REAR - ADA COMPLIANT (MIN 36" LONG) MTD AT 2'-9" AFF. MIN.
- CC TOILET - ADA COMPLIANT (SEAT AT 1'-5" TO 1'-7" AFF)
- DD TOILET PAPER DISPENSER - ADA COMPLIANT (MTD AT 1'-7" AFF.)
- EE WALL MTD HAND SINK - ADA COMPLIANT (TOP AT 2'-9" AFF)
- FF MIRROR - PLATE GLASS - ADA COMPLIANT 18" x 36" h (BOTT. AT 40" AFF)
- GG PAPER TOWEL DISPENSER - ADA COMPLIANT HIGHEST OPERABLE COMPONENT MOUNTED AT +48" A.F.F.
- HH SOAP DISPENSER - ADA COMPLIANT
- KK EXPOSED HOT WATER PIPES SHALL BE INSULATED FOR PROTECTION AGAINST CONTACT / SCALDING
- LL 60" DIAMETER TURNING SPACE - ADA COMPLIANT
- MM 30" x 48" CLEAR FLOOR SPACE AT LAVATORY
- 60" x 48" CLEAR FLOOR SPACE AT FLR. MTD WC



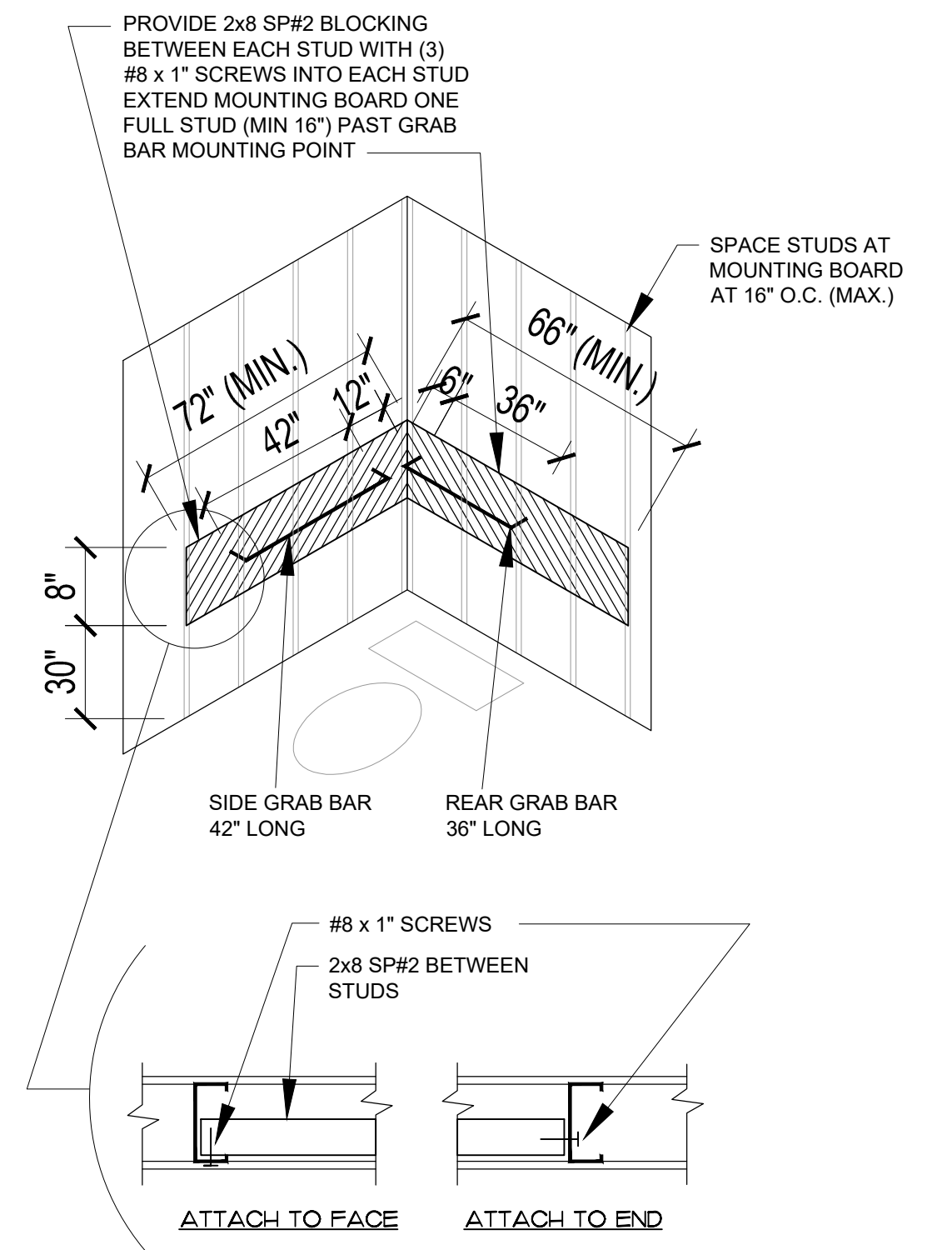
**ADA BATHROOM ELEVATION**  
N.T.S.



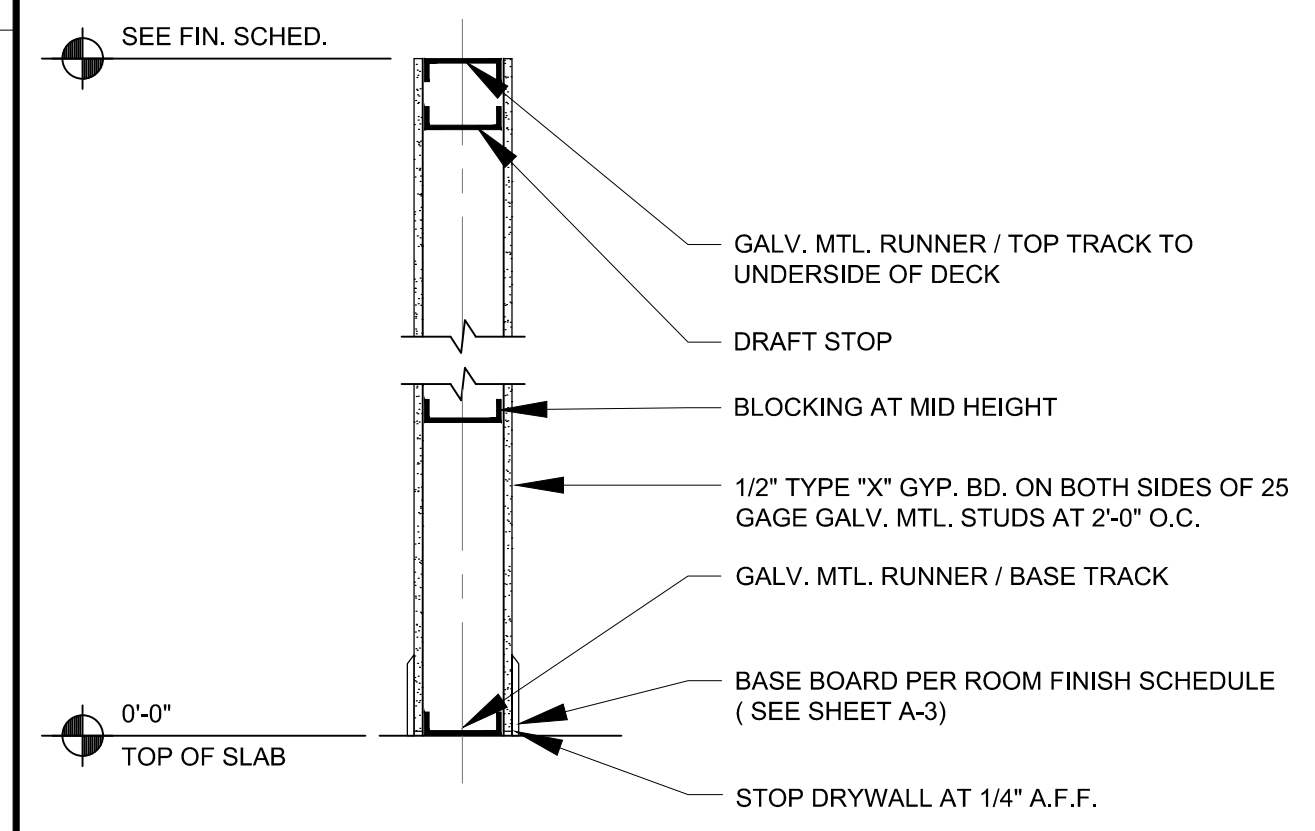
**ADA BATHROOM @ OPEN OFFICE**  
SCALE: 3/8" = 1'-0"



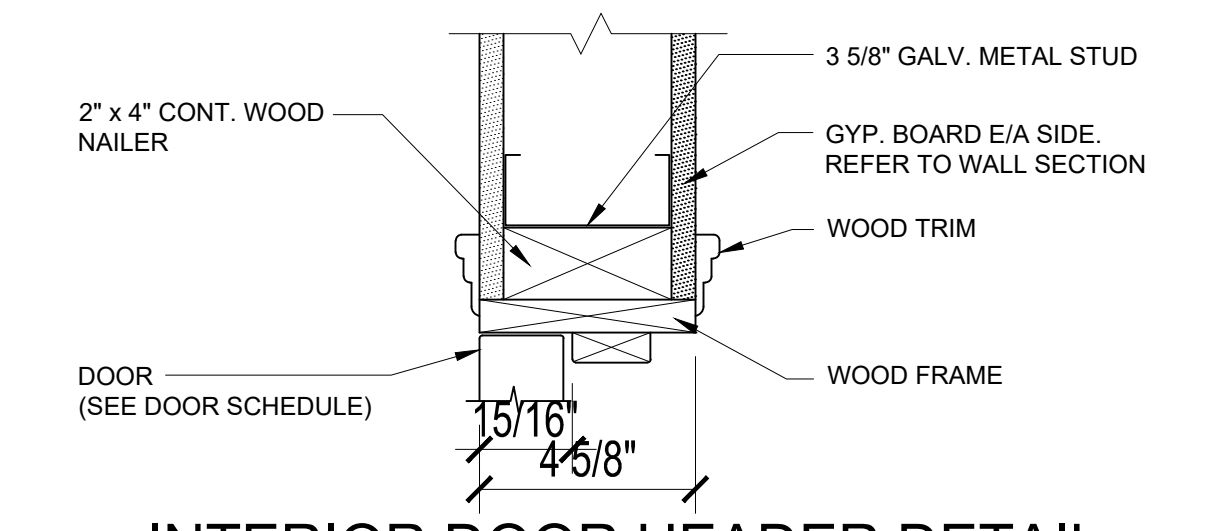
**ADA BATHROOM @ CONF. ROOM**  
SCALE: 3/8" = 1'-0"



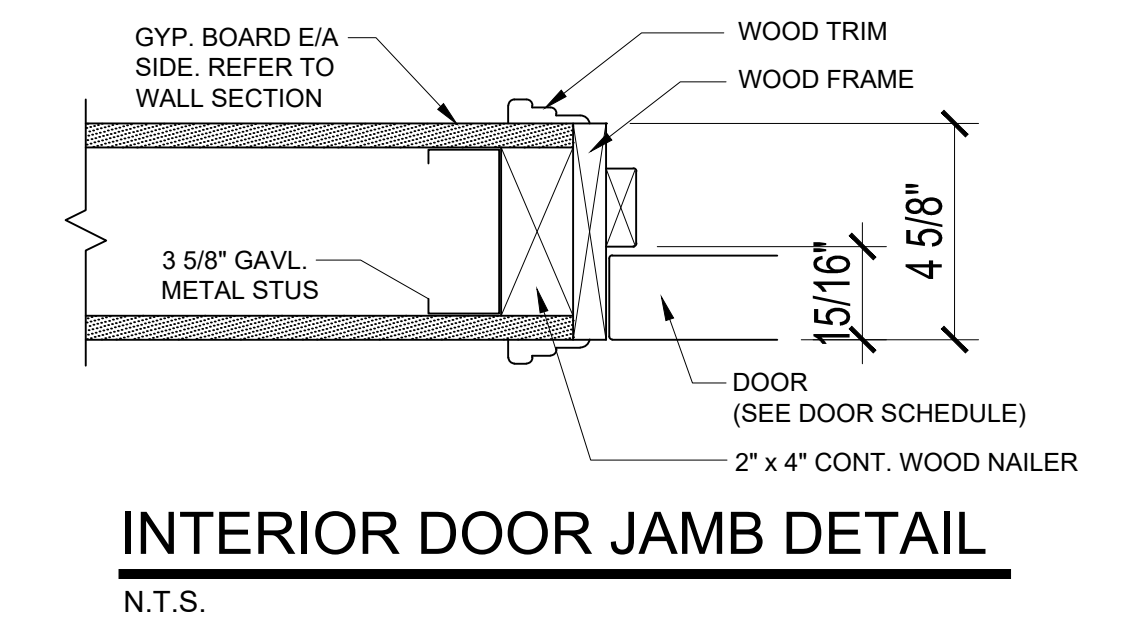
**GRAB BAR WALL REINFORCEMENT**  
N.T.S.



**TYPICAL INTERIOR WALL SECTION**  
N.T.S.



**INTERIOR DOOR HEADER DETAIL**  
N.T.S.



**INTERIOR DOOR JAMB DETAIL**  
N.T.S.

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| NO. | DATE    | DESCRIPTION | PER CITY COMMENTS |
|-----|---------|-------------|-------------------|
| 1   | 12-8-15 |             |                   |

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e-mail: paguire@pa-architect.com  
FLORIDA LICENSE AA-26001926

**COMMERCIAL INTERIOR BUILDOUT**  
**416 COURIER INTERNATIONAL, LLC**  
1620 NW 25th STREET  
MIAMI, FLORIDA, 33122

**CLIENT**  
HERNAN LUGO

**DESIGNED BY:**  
PHILIP D. AGUIRRE

**DRWN: START DATE**  
JUL - BA 9-11-2015

**CHKD: ISSUE DATE**  
P.D.A. 9-25-2015

**SIGN & SEAL**

**DATE:**  
PHILIP D. AGUIRRE, R.A.  
FL-AR0092740

**ACAD DWG: PROJ NO.**  
SERVER / 5 / 15 - 46

**SHEET**  
A-4



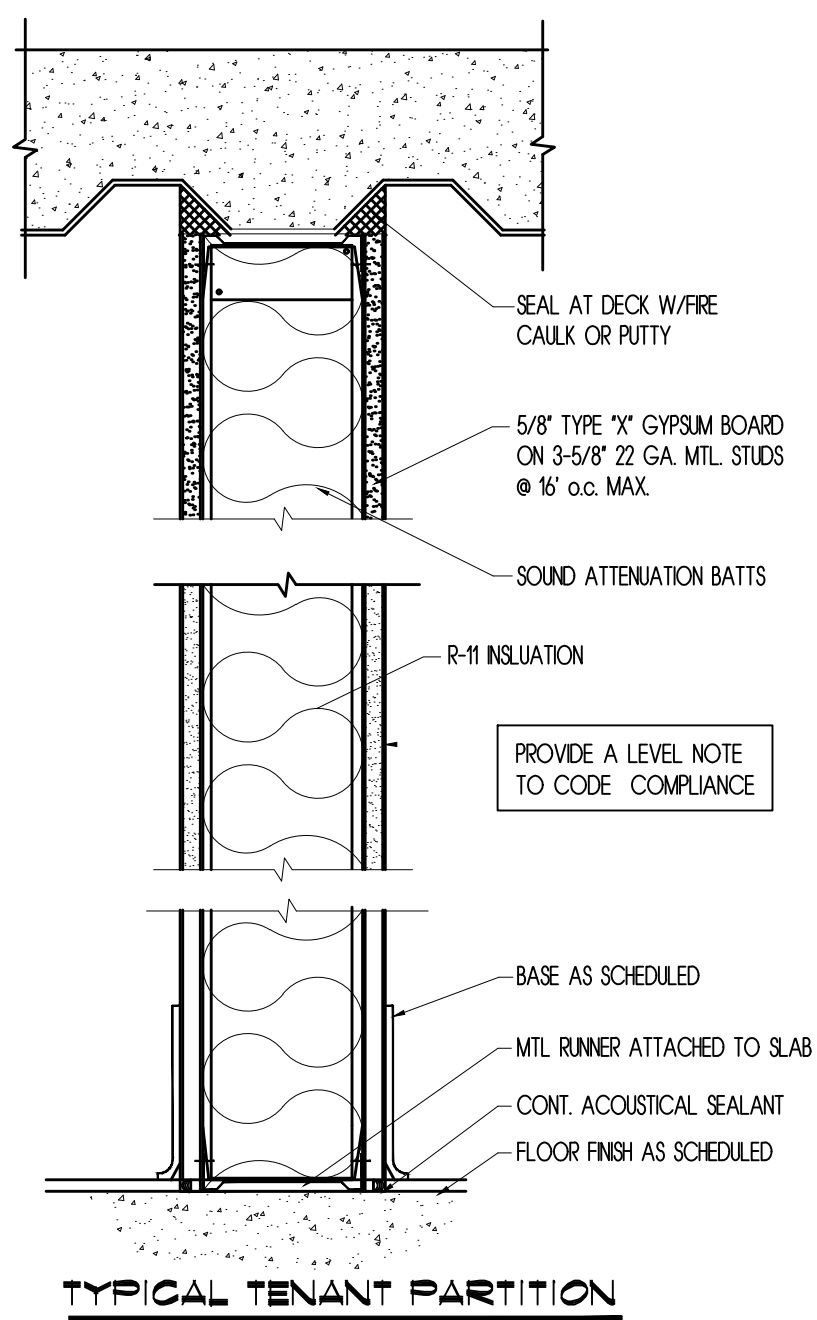
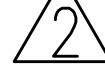
**DETAIL WALL SECTION LEGEND**

**KEY NOTE**

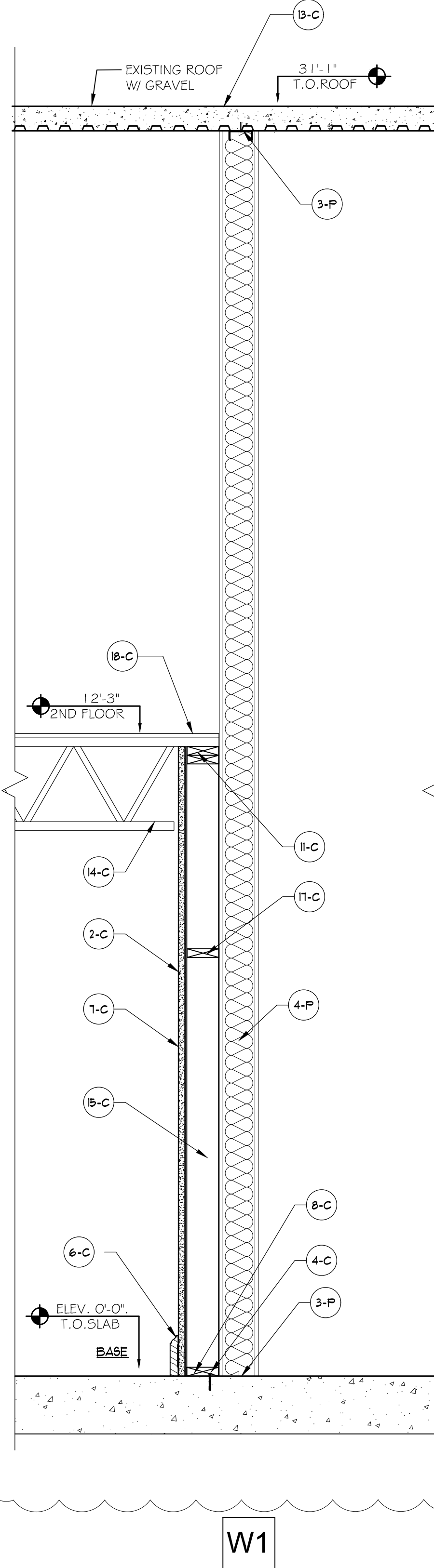
|      |   |
|------|---|
| 1-C  | EXISTING (1) LAYER OF 1/2" GYPSUM WALLBOARD.                    |
| 2-C  | (1) LAYER OF 1/2" GYPSUM WALL BOARD.                            |
| 3-C  | (1) LAYER OF 3/4" PLYWOOD SHEATHING.                            |
| 4-C  | PAF. (POWDER ACTUATED FASTENER) #45" DIAM.                      |
| 5-C  | R-19 BATT INSULATION BETWEEN CONDITION AND UN-CONDITIONED SPACE |
| 6-C  | BASE AS PER FINISH SCHEDULE. SEE SHEET A-2                      |
| 7-C  | FINISH AS PER FINISH SCHEDULE. SEE SHEET A-2.                   |
| 8-C  | (1) 2"x6" FT. WOOD BOTTOM PLATE.                                |
| 9-C  | EXISTING STUCCO FINISH.   |
| 10-C | EXISTING PAINTED FINISH.  |
| 11-C | 2"x6" WOOD DOUBLE TOP PLATE.                                    |
| 12-C | EXISTING ROOF METAL BAR JOIST                                   |
| 13-C | EXISTING ROOF DECK  |
| 14-C | FLOOR TRUSS SYSTEM  |
| 15-C | 2" x 6" WOOD STUDS AT 16" O.C                                   |
| 16-C | EXISTING 5/8" TYP "X" GUBS                                      |
| 17-C | 2" x 6" WOOD FIRE BLOCKING                                      |
| 18-C | PLYWOOD SHEATHING DECK  |

|     |  |
|-----|--|
| 1-P | 3-5/8" 20 GAUGE STUDS AT 24" O.C                                   |
| 2-P | 3-5/8" RUNNER 20 GAUGE ATTACH TO DECK                              |
| 3-P | 3-5/8" "C" METAL RUNNER TO MATCH STUD GA. FASTENERS # 24" O/C MAX. |
| 4-P | EXISTING 4" METAL STUD   |
| 5-P | 3-5/8" 20 GAUGE STUDS # 16" O.C.                                   |

LAT-LIVE LOAD: 5 PSF W/ L/120



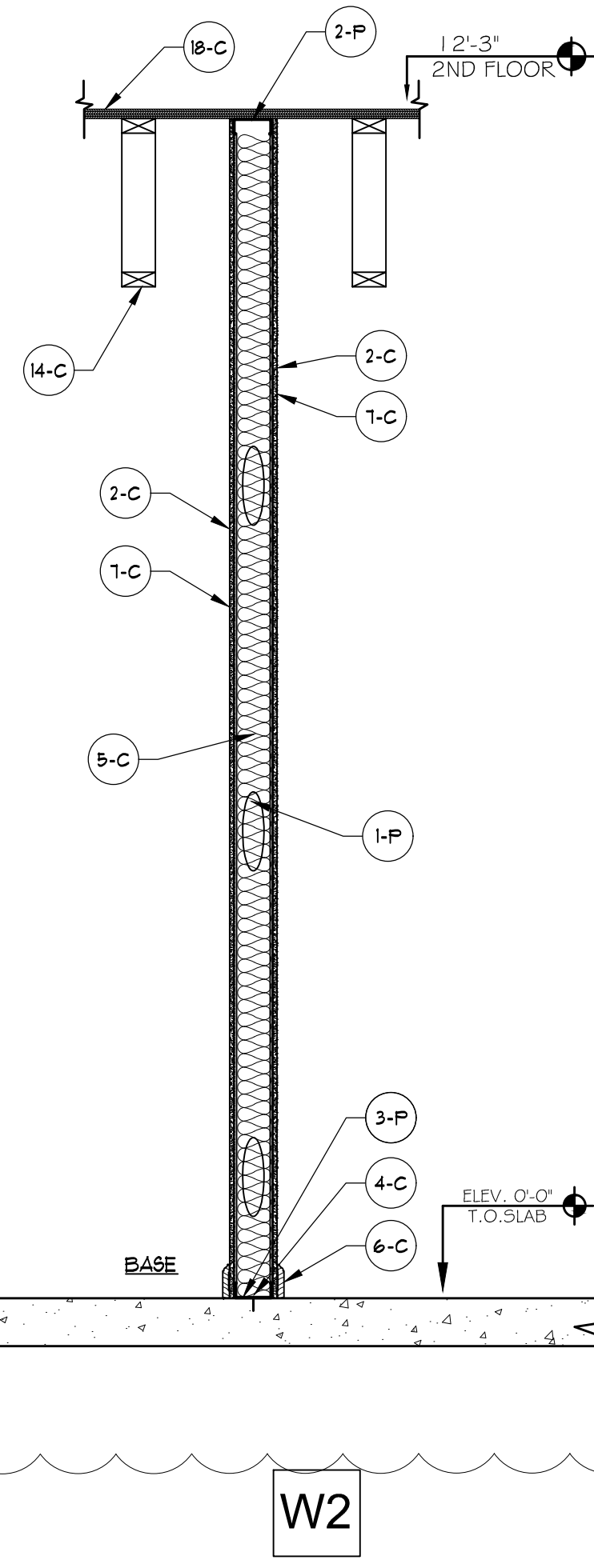
**TYPICAL TENANT PARTITION**



**LOAD BEARING INTERIOR PARTITION WALL**

SCALE: N.T.S.

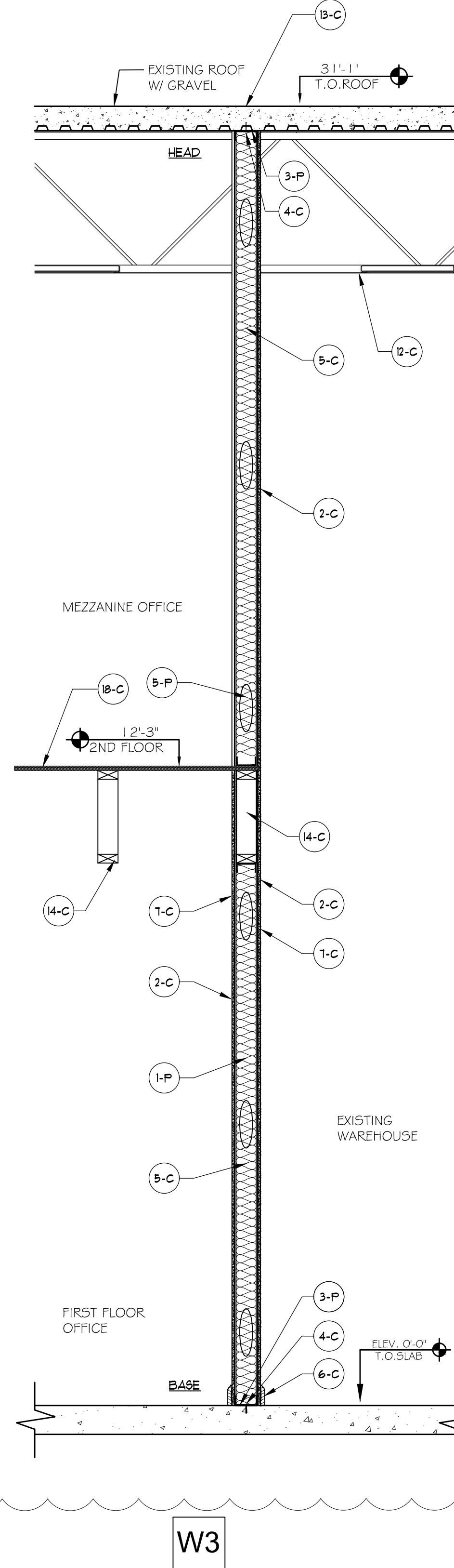
TYPICAL INTERIOR PARTITION WALL SECTION



**NEW NON LOAD BEARING INTERIOR PARTITION WALL**

SCALE: N.T.S.

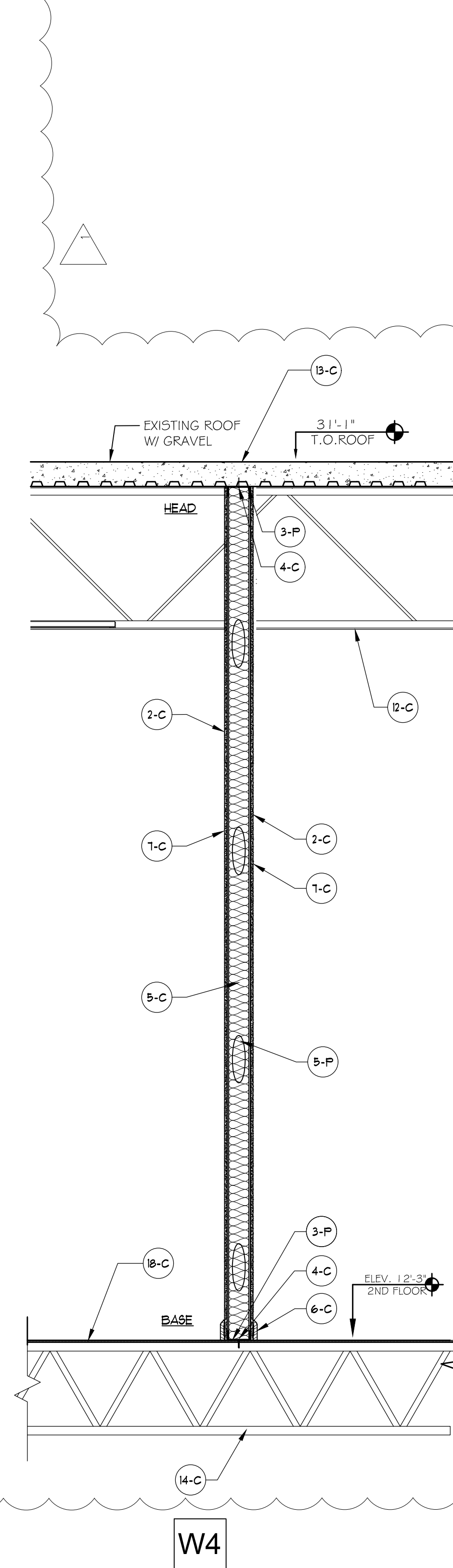
INTERIOR PARTITION WALL SECTION



**NEW NON LOAD BEARING INTERIOR PARTITION WALL FULL HEIGHT**

SCALE: N.T.S.

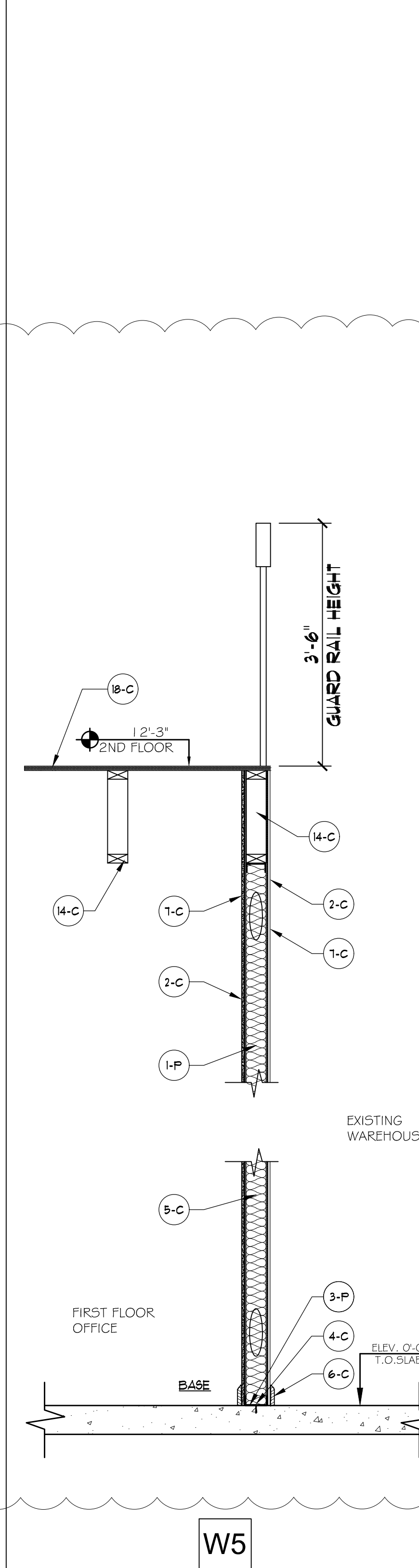
INTERIOR PARTITION WALL SECTION



**NEW NON LOAD BEARING INTERIOR PARTITION WALL ON 2ND FLOOR**

SCALE: N.T.S.

INTERIOR PARTITION WALL SECTION



**NEW NON LOAD BEARING INTERIOR PARTITION WALL ON 2ND FLOOR**

SCALE: N.T.S.

INTERIOR PARTITION WALL SECTION

| NO. | DATE    | REVISIONS         | DESCRIPTION |
|-----|---------|-------------------|-------------|
| 1   | 12-3-15 | PER CITY COMMENTS |             |
| 2   | 1-13-16 | PER CITY COMMENTS |             |

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 FLORIDA LICENSE AA-26001926

**COMMERCIAL INTERIOR BUILDOUT**  
**A&S COURIER INTERNATIONAL, LLC**  
 7620 NW 25th STREET  
 BUILDING "C" UNIT # 2  
 MIAMI, FLORIDA 33122

CLIENT  
**HERNAN LUGO**

DESIGNED BY:  
**PHILIP D. AGUIRRE**

DRWN: **J.J.L. - BA** START DATE  
**9-11-2015**

CHKD: **P.D.A.** ISSUE DATE  
**9-25-2015**

SIGN & SEAL

DATE:  
**PHILIP D. AGUIRRE, R.A.**  
**FL-AR0092740**

ACAD DWG  
 SERVER / S/  
 5th GROUP

PROJ NO.  
**15-46**

SHEET  
**A-5**

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| 1   | 12-8-15 | PER CITY COMMENTS |
| 2   | 1-13-16 | PER CITY COMMENTS |

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**COMMERCIAL INTERIOR BUILDOUT**  
**A16 COURIER INTERNATIONAL, LLC**  
 1620 NW 25th STREET  
 BUILDING "C" UNIT # 2  
 MIAMI, FLORIDA, 33122

CLIENT  
**HERNAN LUGO**

DESIGNED BY:  
**PHILIP D. AGUIRRE**

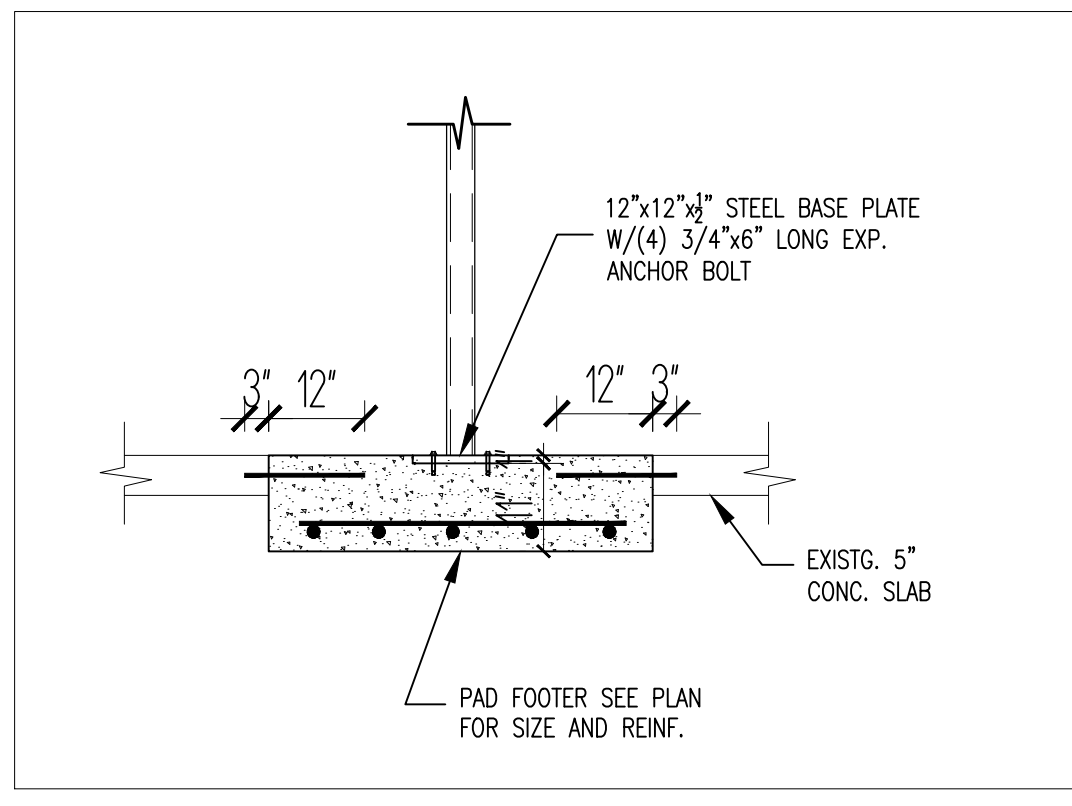
DRWN: **J.L. - BA** START DATE: **9-11-2015**

CHKD: **P.D.A.** ISSUE DATE: **9-25-2015**

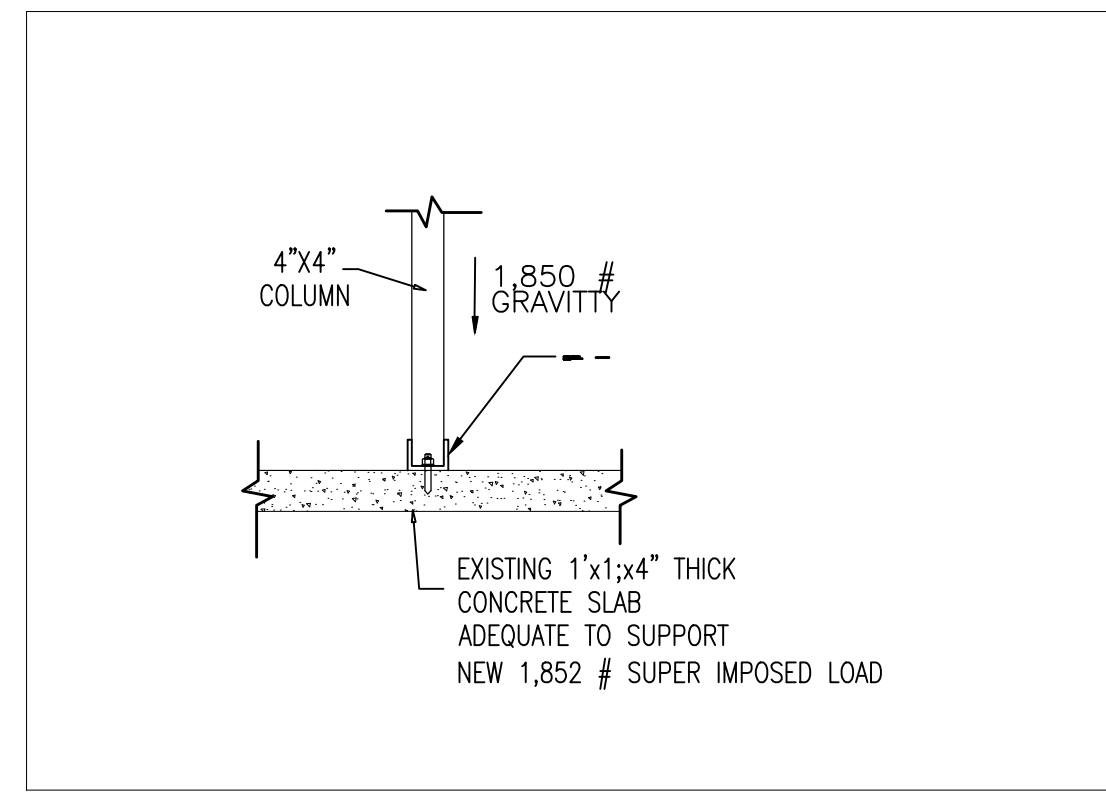
SIGN & SEAL  
 DATE: **PHILIP D. AGUIRRE, R.A.**  
**FL-AR0092740**

ACAD DWG: **SPR. PER. 5. 15-46**  
 5/11/2016

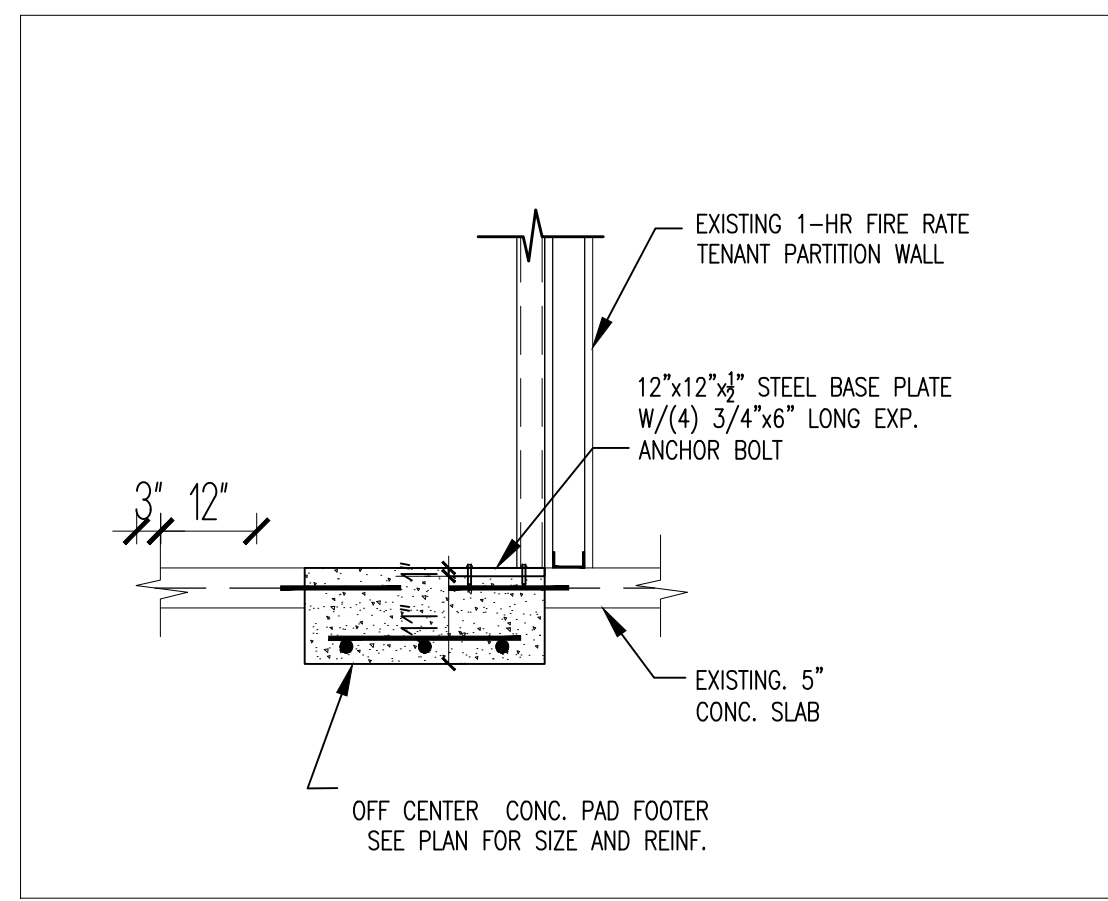
SHEET  
**S-1**



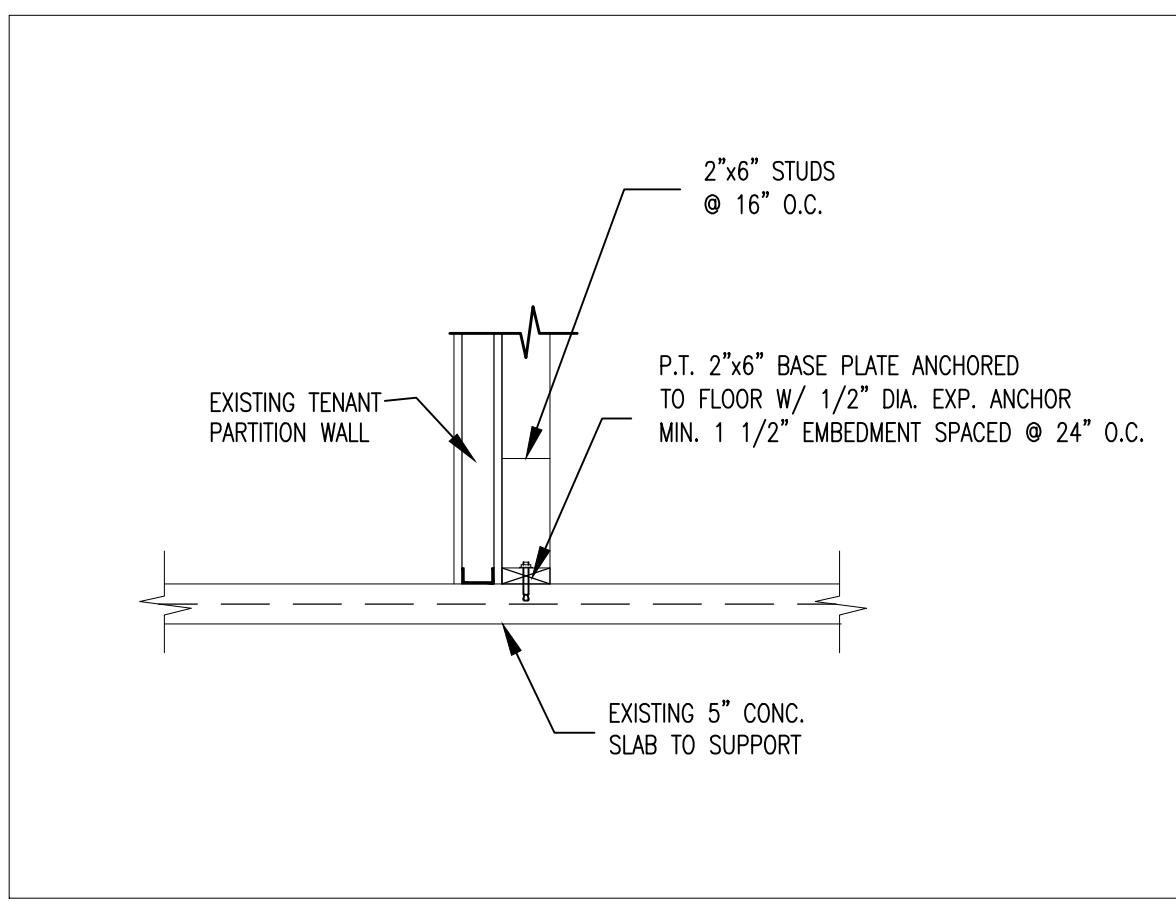
**SECTION A**  
 SCALE: 1/2" = 1'-0"



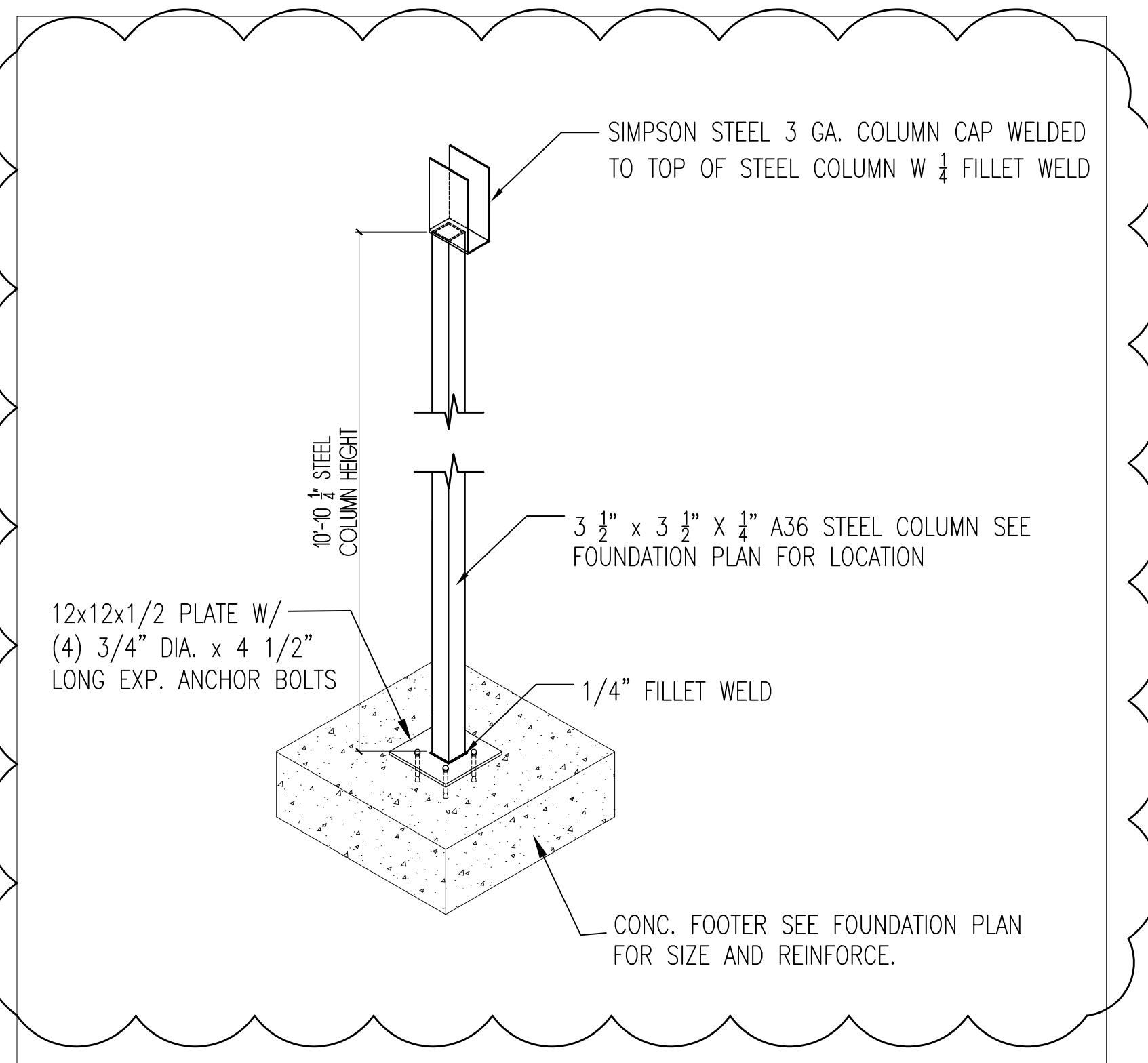
**SECTION D**  
 SCALE: 1/2" = 1'-0"



**SECTION B**  
 SCALE: 1/2" = 1'-0"



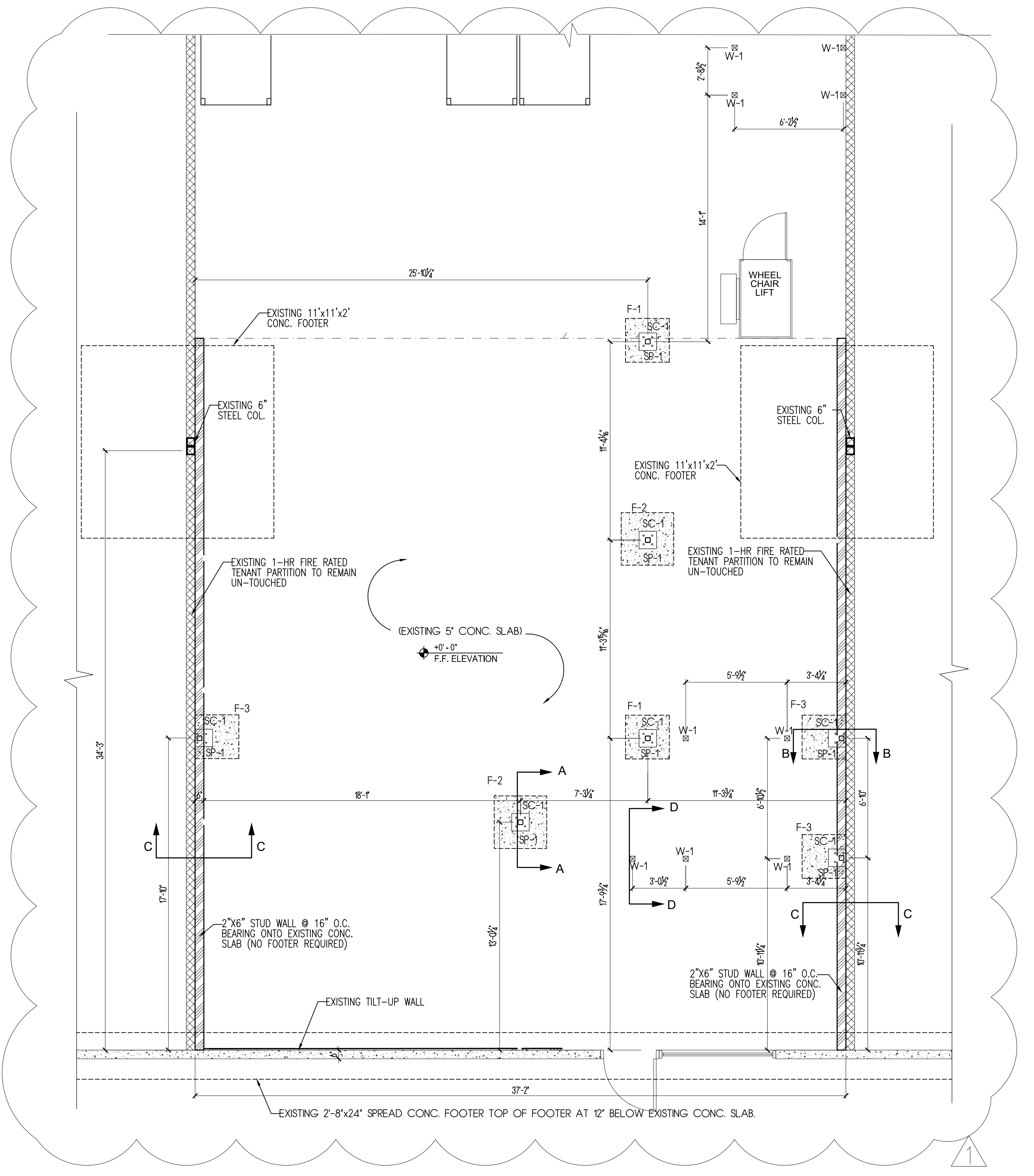
**SECTION C**  
 SCALE: 1/2" = 1'-0"



**STEEL COL. AND PLATE DETAIL**  
 SCALE: 1/2" = 1'-0"

**FLOOR LOADS PER FBC TABLE 1607.1**

| OCCUPANCY OR USE | LIVE LOAD |              | DEAD LOAD |
|------------------|-----------|--------------|-----------|
|                  | UNIFORM   | CONCENTRATED |           |
| OFFICE           | 50 PSF    | 2000 PSF     |           |
| CORRIDOR GRND    | 100 PSF   | 2000 PSF     |           |
| CORRIDOR ABOVE   | 80 PSF    | 2000 PSF     | 20 PSF    |
| ASSEMBLY         | 100 PSF   | -----        |           |
| STAIRS           | 100 PSF   | 300 PSF      |           |
| STORAGE LIGHT    | 125 PSF   | -----        |           |



**FOUNDATION PLAN**  
 SCALE: 1/4" = 1'-0"

**FOOTING SCHEDULE**

| TYPE | SIZE  |        |       | REINFORCING LENGTHWISE |      |        | REINFORCING TRANSVERSE |     |      | REMARKS                    |                                |
|------|-------|--------|-------|------------------------|------|--------|------------------------|-----|------|----------------------------|--------------------------------|
|      | WIDTH | LENGTH | DEPTH | NO.                    | SIZE | LENGTH | SPACE                  | NO. | SIZE |                            | LENGTH                         |
| F-1  | 30"   | 30"    | 12"   | 3                      | #5   | 2'-0"  |                        |     |      | EQUALLY SPACED ON EACH WAY | ISOLATED PAD                   |
| F-2  | 36"   | 36"    | 12"   | 5                      | #5   | 2'-6"  |                        |     |      | EQUALLY SPACED ON EACH WAY | ISOLATED PAD                   |
| F-3  | 24"   | 24"    | 12"   | 3                      | #5   | 1'-6"  |                        |     |      | EQUALLY SPACED ON EACH WAY | OFF CENTER ISOLATED PAD FOOTER |

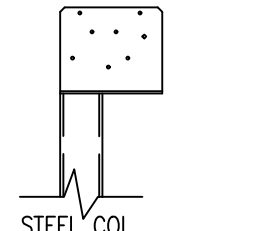
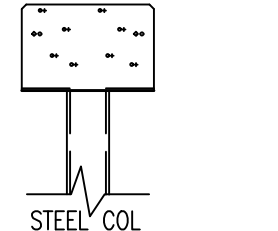
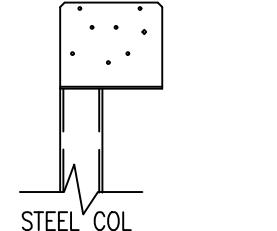
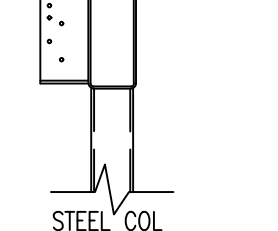
**COLUMN SCHEDULE**

| COLUMN | TYPE | SIZE   |        | REINFORCEMENT |        | REMARKS   |
|--------|------|--------|--------|---------------|--------|---|
|        |      | WIDTH  | LENGTH | VERTICAL      | HORIZ. |   |
| SC-1   | SC-1 | 3-1/2" | 3-1/2" | ASTM-A36      |        | STEEL COLUMN 1/4" THICK   |
| SP-1   | SP-1 | 12"    | 12"    | ASTM-A36      |        | 12"x12"x1/2" STEEL BASE PLATE W/ (4) 3/4"x6" LONG EXP. ANCHOR BOLTS               |
| W-1    | W-1  | 4"     | 4"     |               |        | P.T. STAIR SUPPORT WOOD COL. ANCHORED TO EXISTING CONC. SLAB (NO FOOTER REQUIRED) |



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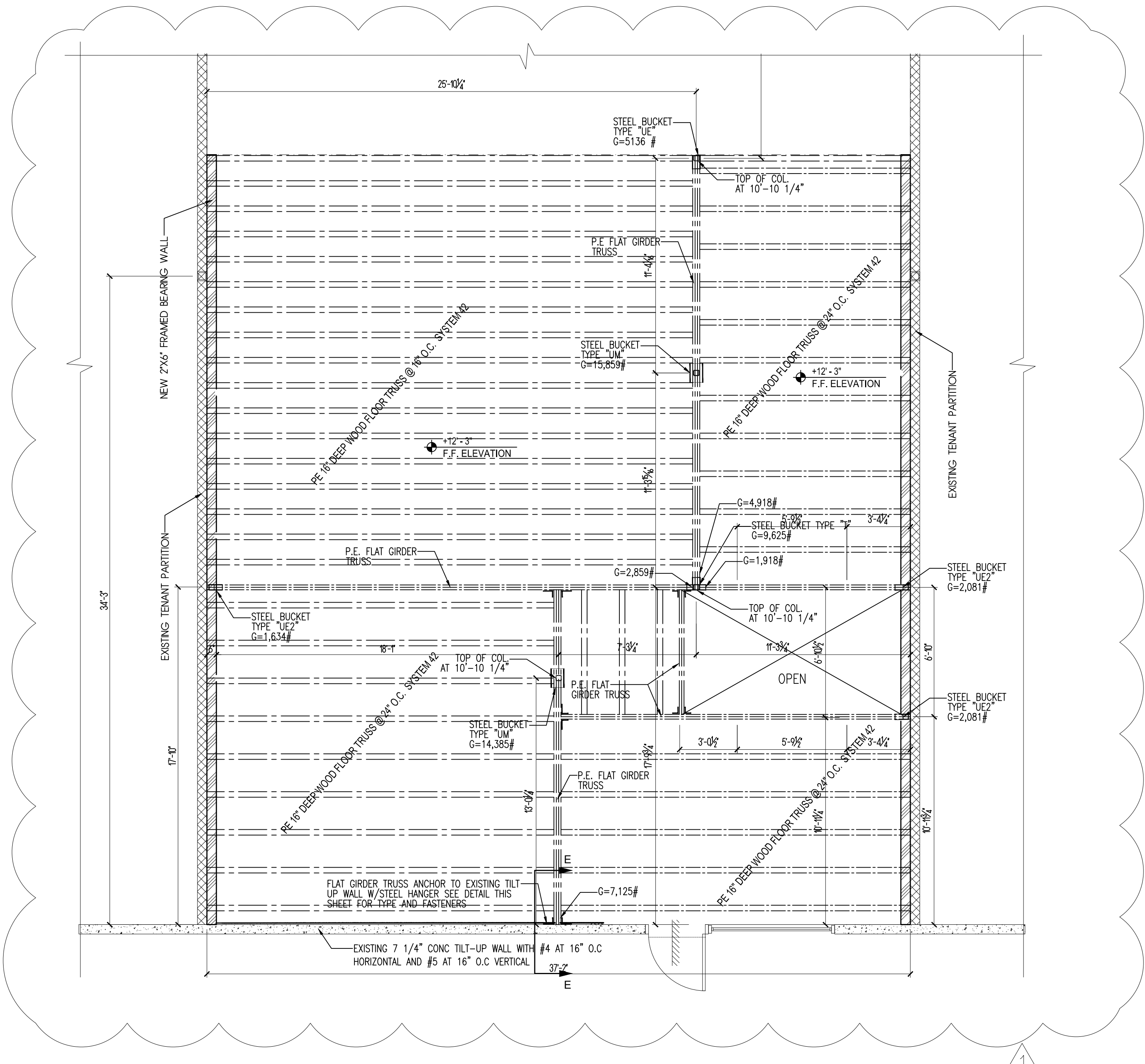
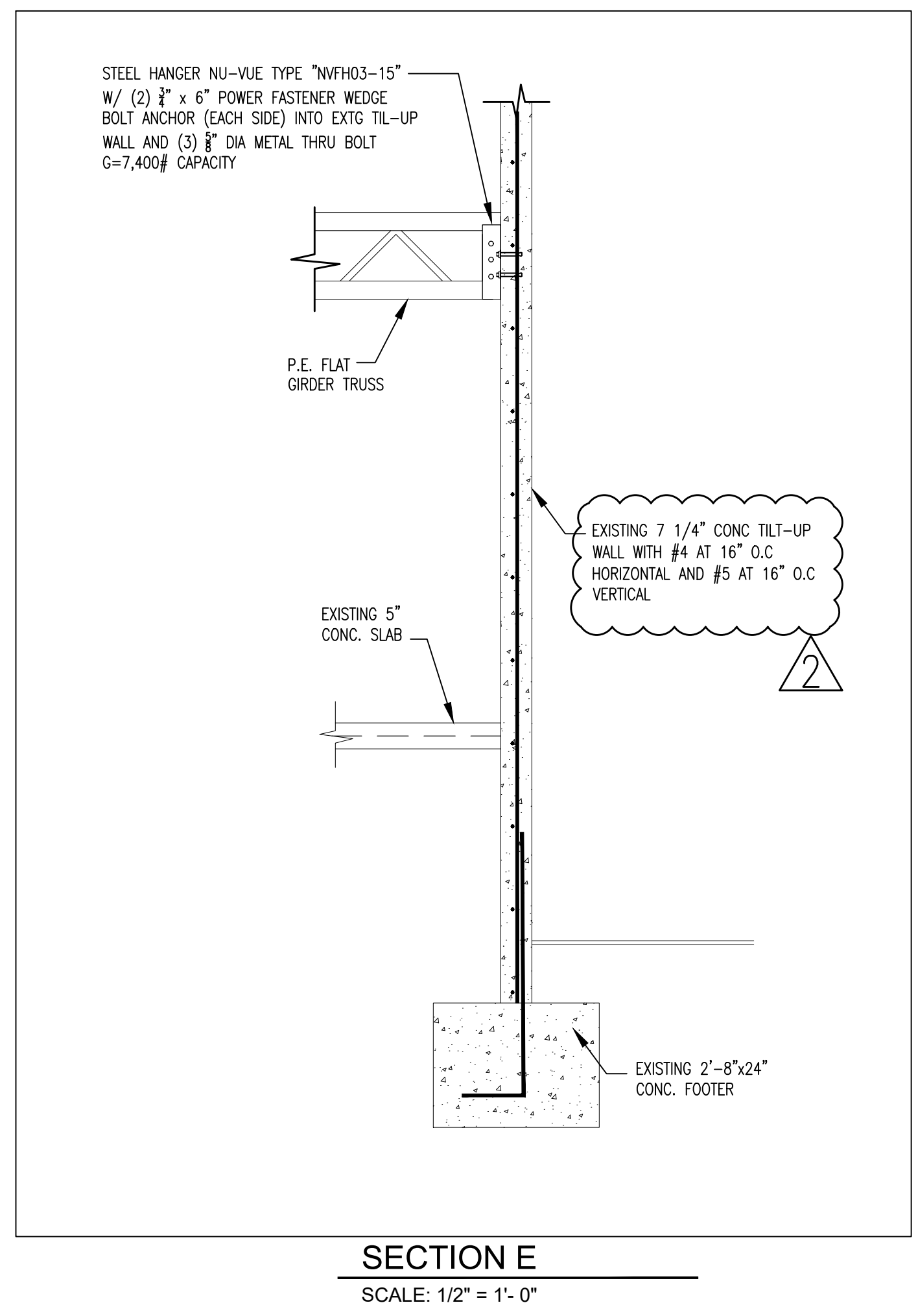
### STEEL COLUMN CAPS SCHEDULE

|   |   |
|---|---|
| <br>STEEL COL<br>SIMPSON ECC004.62-SDS2.5<br>(4 5/8" x 8 1/2" x 7"H)<br>(16) 1/2" x 2 1/2" SDS WELDED TO TOP OF STEEL COLUMN W/ 1/4" FILLET WELD<br>G = 9,845# CAPACITY<br>TYPE "UE" | <br>STEEL COL<br>SIMPSON CC004.62-SDS2.5<br>(4 5/8" x 8 1/2" x 7"H)<br>(16) 1/2" x 2 1/2" SDS WELDED TO TOP OF STEEL COLUMN W/ 1/4" FILLET WELD<br>G = 24,450# CAPACITY<br>TYPE "UM"      |
| <br>STEEL COL<br>SIMPSON ECC003-SDS2.5<br>(3 1/8" x 8 1/2" x 7"H)<br>(16) 1/2" x 2 1/2" SDS WELDED TO TOP OF STEEL COLUMN W/ 1/4" FILLET WELD<br>G = 9,625# CAPACITY<br>TYPE "UE2"   | <br>STEEL COL<br>SIMPSON CC004.62-SDS2.5<br>(3 1/8" x 4 5/8" x 12" x 7"H)<br>(16) 1/2" x 2 1/2" INTO EACH G.T WELDED TO STEEL COL W/ 1/4" FILLET WELD<br>G = 9,625# CAPACITY<br>TYPE "UM" |

### FASTENING SCHEDULE

| LOCATION                  | NAIL SIZE/ STAPLE      | MANUFACTURER  | SPACING   | REMARKS  |
|---------------------------|------------------------|---|---|--|
| PLYWOOD WALL SEATING      | 8D RING SHANK NAILS    | HAND NAILED OR HATCH PWD OR APPROV. POWER DRIVEN NAIL | 6" O.C. @ EDGE/FIELD<br>4" O.C. @ CORNER STUDS  |  |
| PLYWOOD SUB-FLOOR SEATING | 8D COMMON NAILS        | FULL HEAD HATCH                                       | 6" O.C. @ EDGES<br>12" O.C. @ INTERMEDIATE SUPPORT  | PLYWOOD SHALL BE BONDED TO TOP CHORD OF TRUSSES USING ADHESIVE MEETING THE REQUIREMENTS OF ASTM D 3988 |
| WIRE LATH                 | 1" X 1-1/2" 1/8 GA     | PASLIDE OR APP. EQUAL PREMATIC FASTENER               | MAX 4" O.C. SIDE LAP SECURED TO SUPPORTS & TIED BETWEEN SUPPORTS @ 9" O.C. 14" O.C. @ CORNERS |  |
| ROOFING PAPER             | 7/16" X 1-1/4" (IGALV) | HATCH OR APP. EQUAL                                   | 11" TAGGED @ 6" O.C. ON LAPS & 2 ROWS STAGGERED @ 12" O.C. IN FIELD                           |  |
| DRP EDGE                  | 7/16" X 1-1/4" (IGALV) | HATCH OR APP. EQUAL                                   | 4" CL. THROUGH OUT DRP EDGE   |  |
| ROOF TILE                 | 100 (NON CORROSIVE)    | HAND NAILED OR SPP EQUAL                              | 2 PER TILE  |  |
| FASA                      | 16D (IGALV)            | HAND NAILED OR SPP EQUAL                              | 2 PER TRUSS   |  |
| INTO SEATING              | 8D (IGALV)             | HAND NAILED OR SPP EQUAL                              | MAX 6" O.C.   |  |

NOTE: THE INSTALLATION OF LARGE TRUSSES INCLUDING TEMPORARY BRACING, SAFETY PRECAUTIONS AND PERMANENT BRACING AS REQUIRED BY THE SPECIALTY ENGINEER AND THE ARCHITECT OR PROFESSIONAL ENGINEER OF RECORD, SHALL BE PERFORMED UNDER DIRECT SUPERVISION OF EITHER A LICENSED BUILDING CONTRACTOR, LICENSED GENERAL CONTRACTOR, ARCHITECT OR PROFESSIONAL ENGINEER. LARGE TRUSSES ARE THOSE MEASURING:



### REVISIONS

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|-----|---------|-------------------|
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| 2   | 1-13-16 | PER CITY COMMENTS |

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**COMMERCIAL INTERIOR BUILDOUT**

**A16 COURIER INTERNATIONAL, LLC**  
1620 NW 25th STREET  
BUILDING "C" UNIT # 2  
MIAMI, FLORIDA, 33122

CLIENT  
**HERNAN LUGO**

DESIGNED BY:  
**PHILIP D. AGUIRRE**

DRWN: START DATE  
**J.J.L. - B.A. 9-11-2015**

CHKD: ISSUE DATE  
**P.D.A. 9-25-2015**

SIGN & SEAL

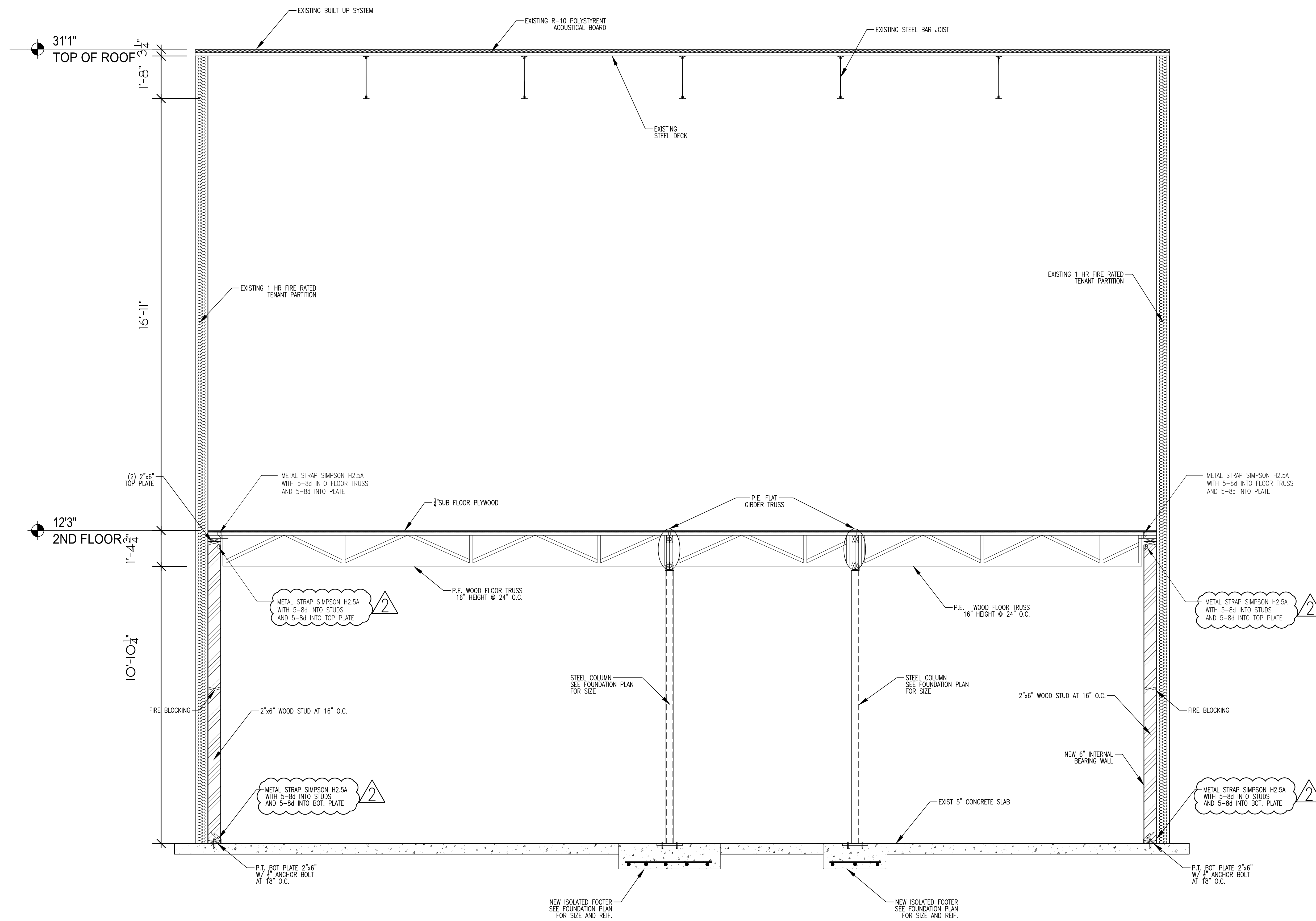
DATE:  
**PHILIP D. AGUIRRE, R.A. FL-AR092740**

ACAD DWG: PROJ NO.  
**SERVER/ S/ 15-46**  
ENV GROUP

SHEET  
**S-2**



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

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**COMMERCIAL INTERIOR BUILDOUT**

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**MIAMI, FLORIDA, 33122**

**CLIENT**  
HERNAN LUGO

**DESIGNED BY:**  
PHILIP D. AGUIRRE

**DRWN:** JLL - BA  
**START DATE:** 9-11-2015

**CHKD:** P.D.A.  
**ISSUE DATE:** 9-25-2015

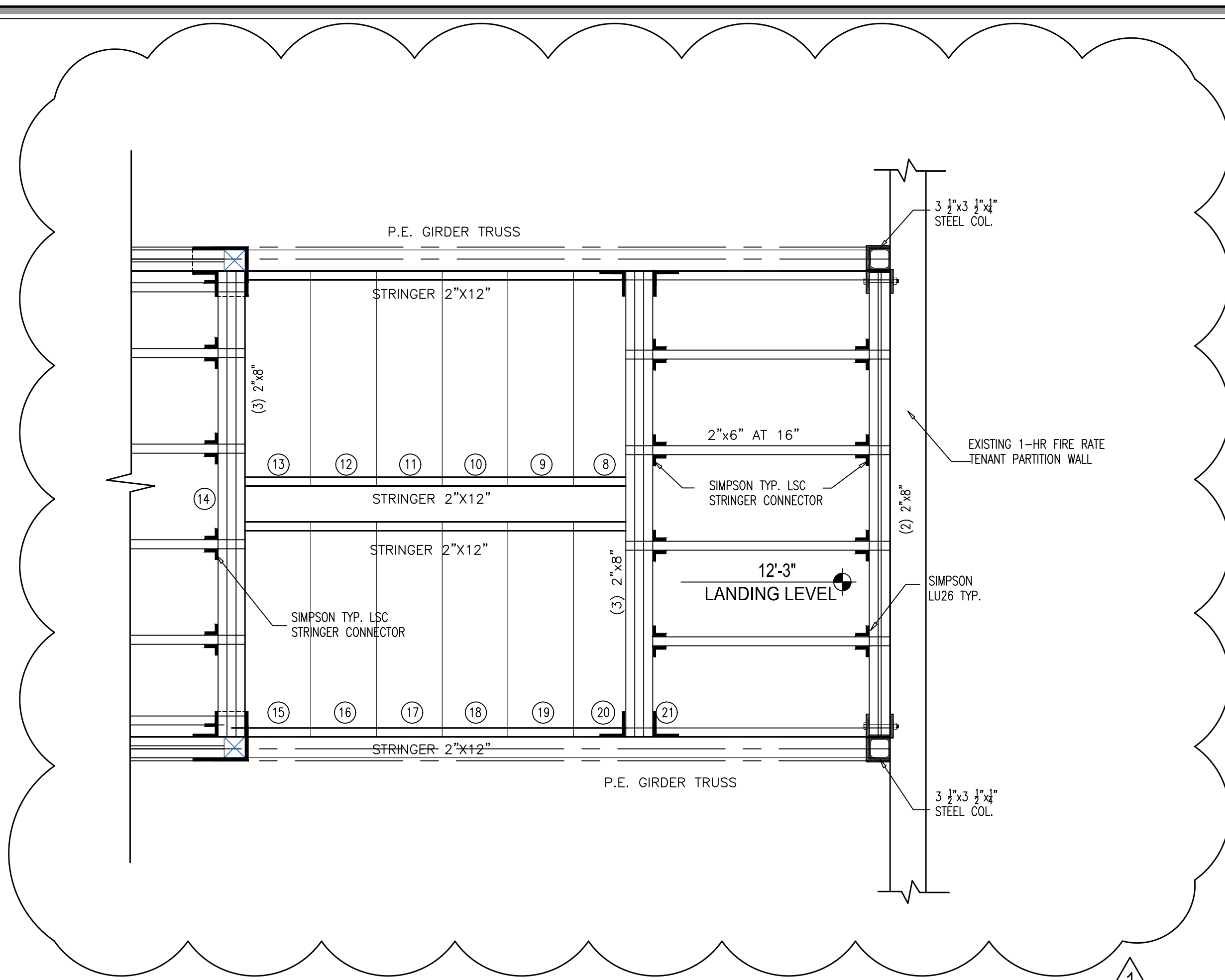
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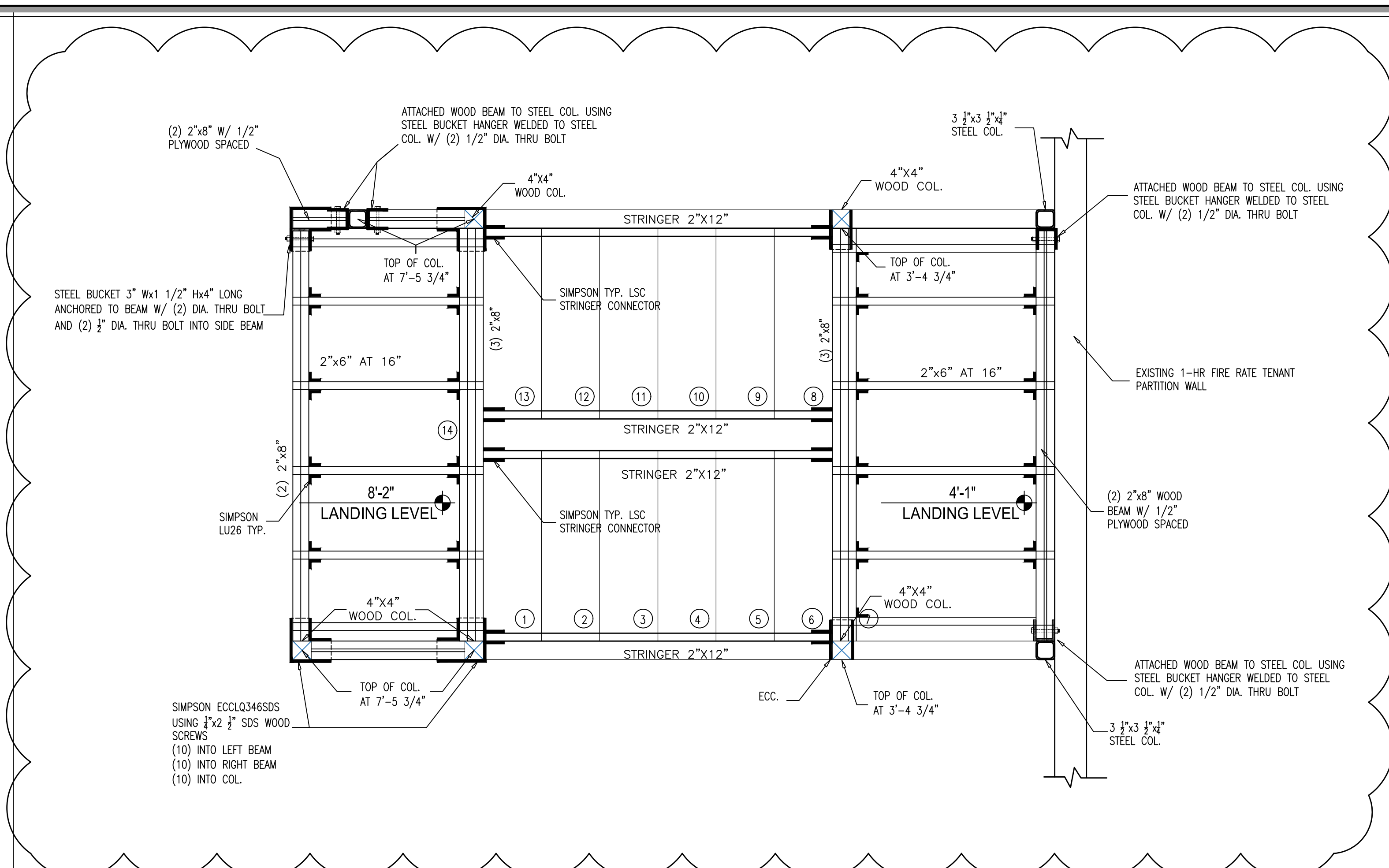
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**S-3**

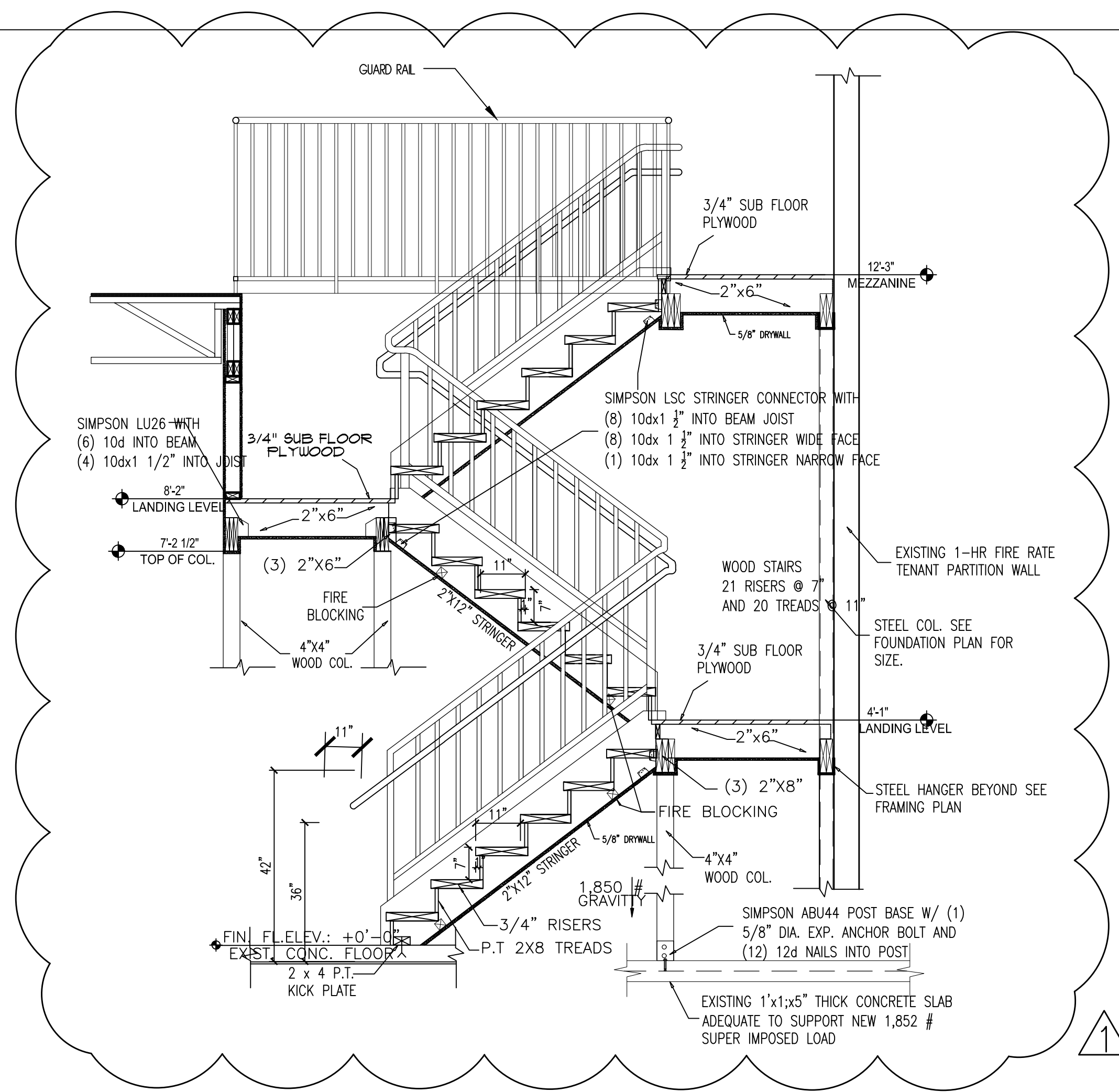




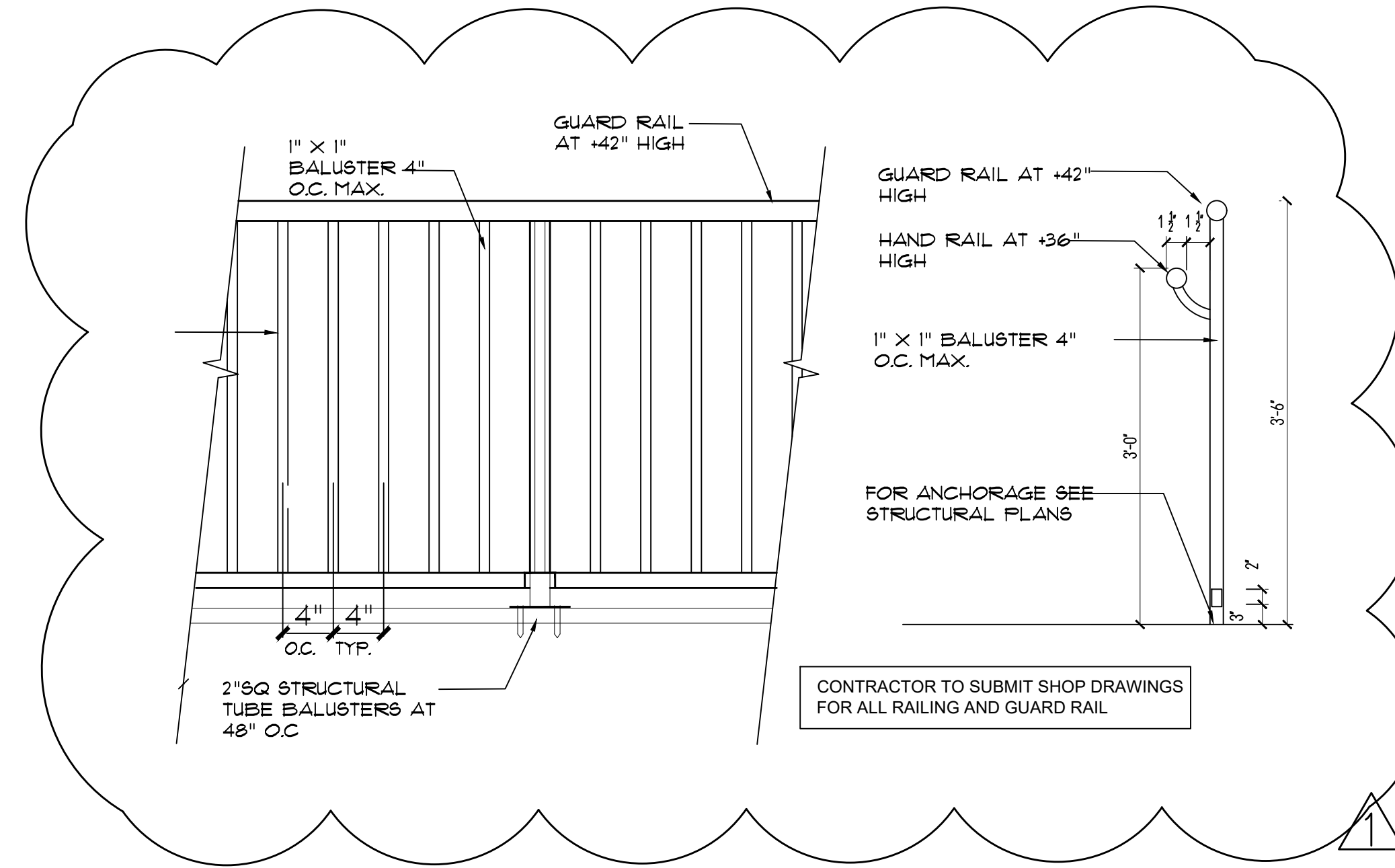
**STAIRCASE 1 TOP LANDING**  
SCALE: 3/4" = 1'-0"



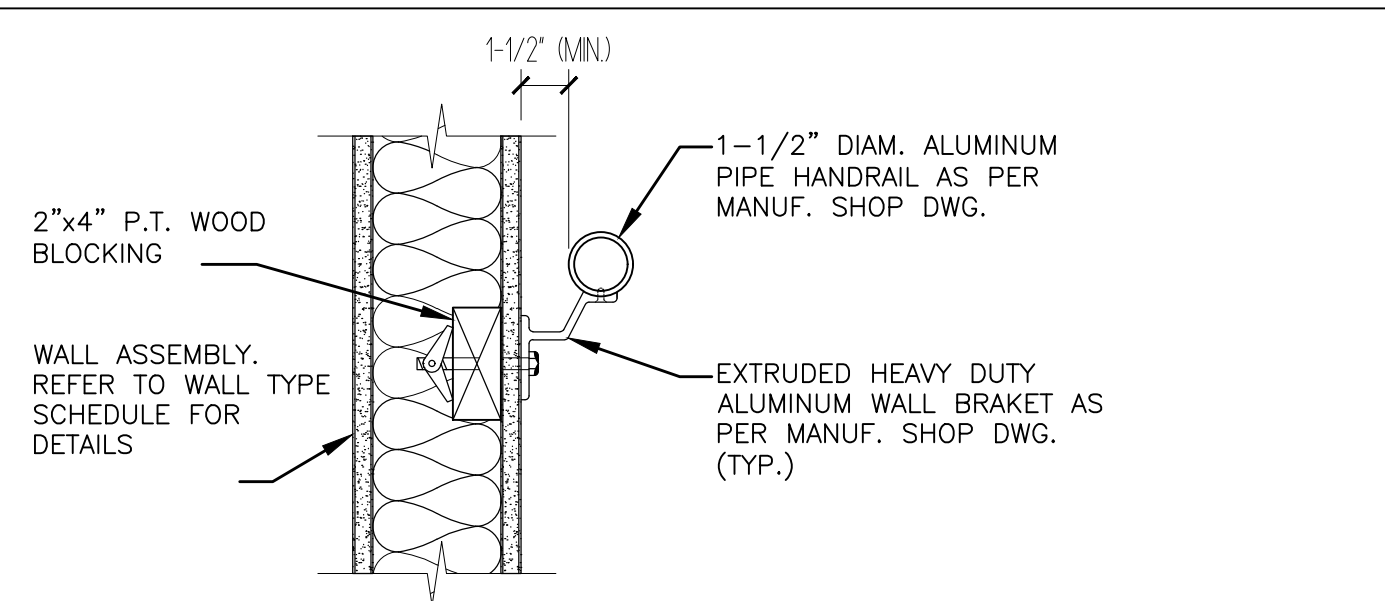
**STAIRCASE INTERMEDIATE AND LOWER LANDING**  
SCALE: 3/4" = 1'-0"



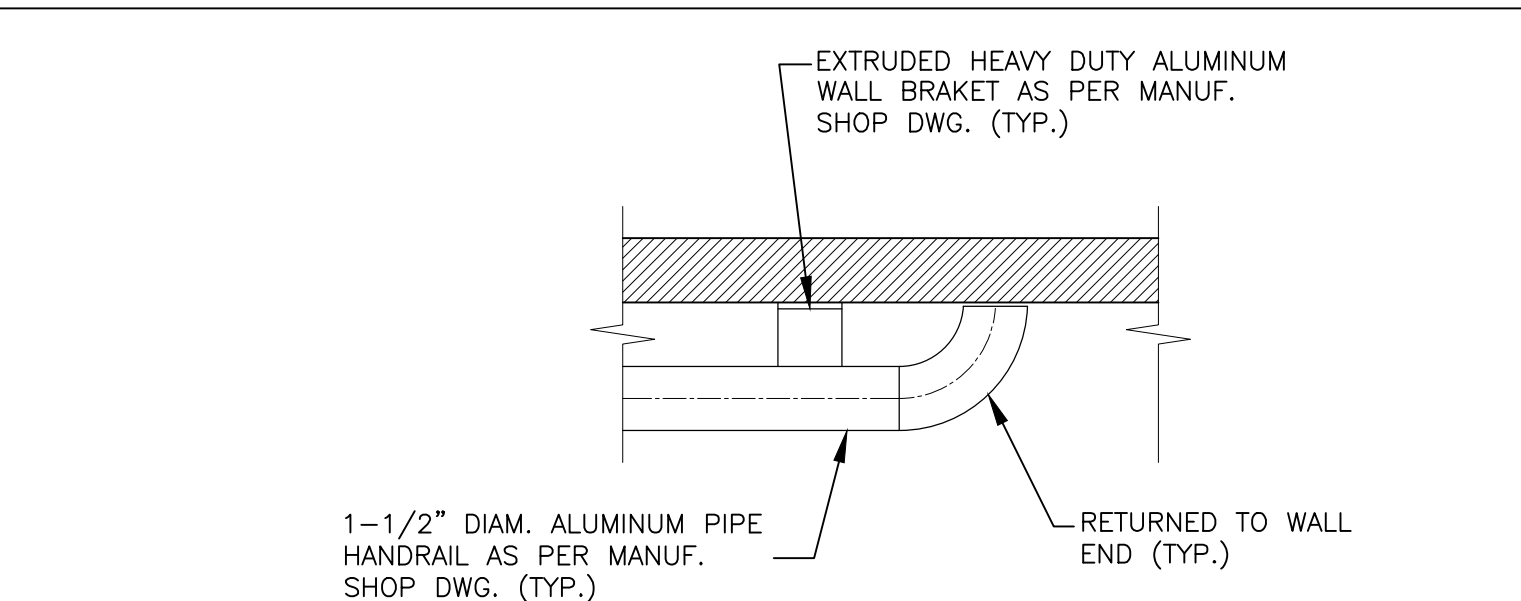
**STAIRCASE 1 SECTION**  
SCALE: 1/2" = 1'-0"



**GUARD RAIL AND HAND RAIL DETAIL**  
SCALE: 1/2" = 1'-0"



**TYPICAL WALL ANCHOR RAILING DETAIL**  
SCALE: N.T.S.



**TYPICAL WALL MOUNTED RAILING END DETAIL**  
SCALE: N.T.S.

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**COMMERCIAL INTERIOR BUILDOUT**

**A4S COURIER INTERNATIONAL, LLC**  
1620 NW 25th STREET  
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MIAMI, FLORIDA, 33122

CLIENT: HERNAN LUGO

DESIGNED BY: PHILIP D. AGUIRRE

DRWN: J.J.L. - BA START DATE: 9-11-2015

CHKD: P.D.A. ISSUE DATE: 9-25-2015

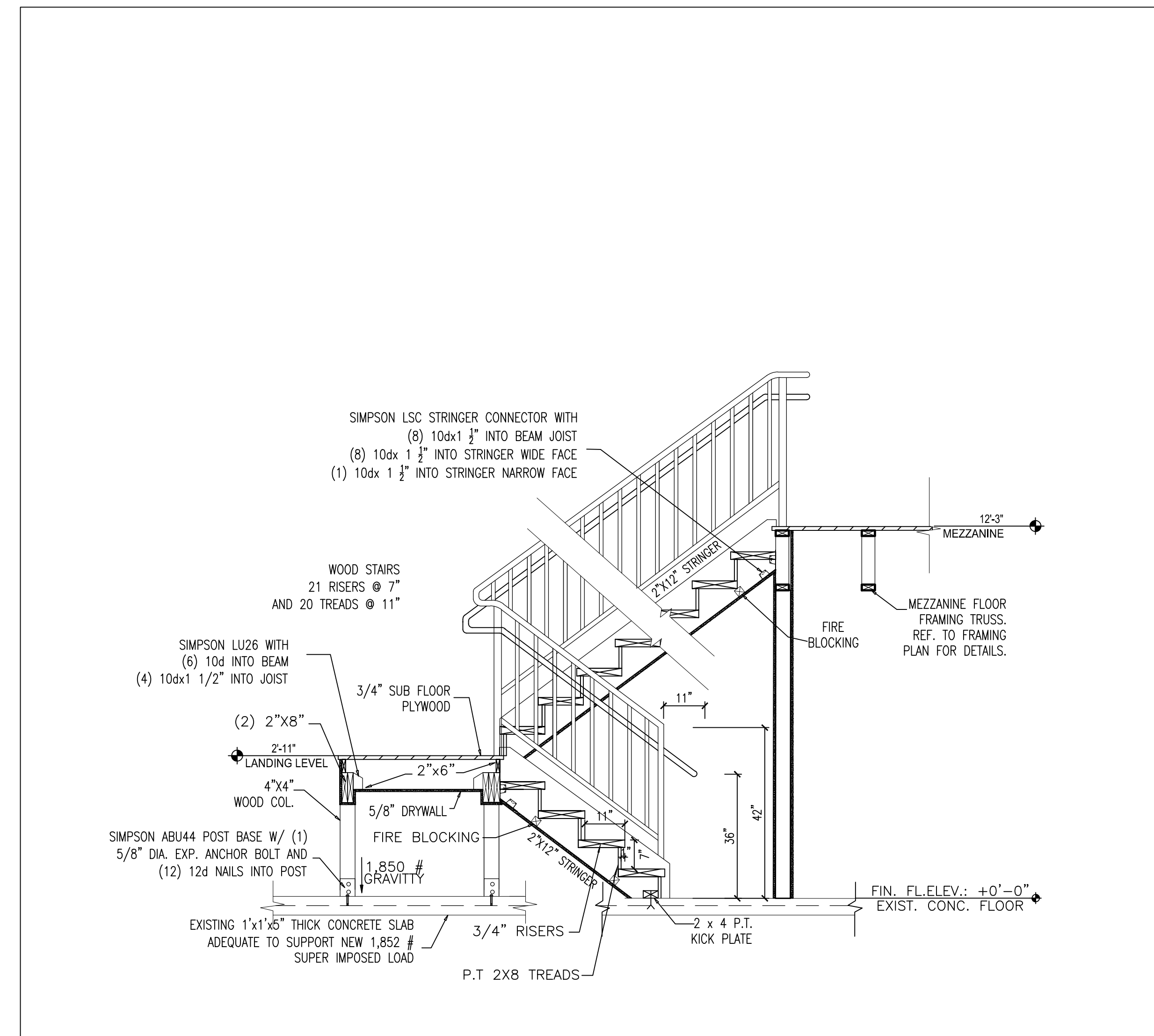
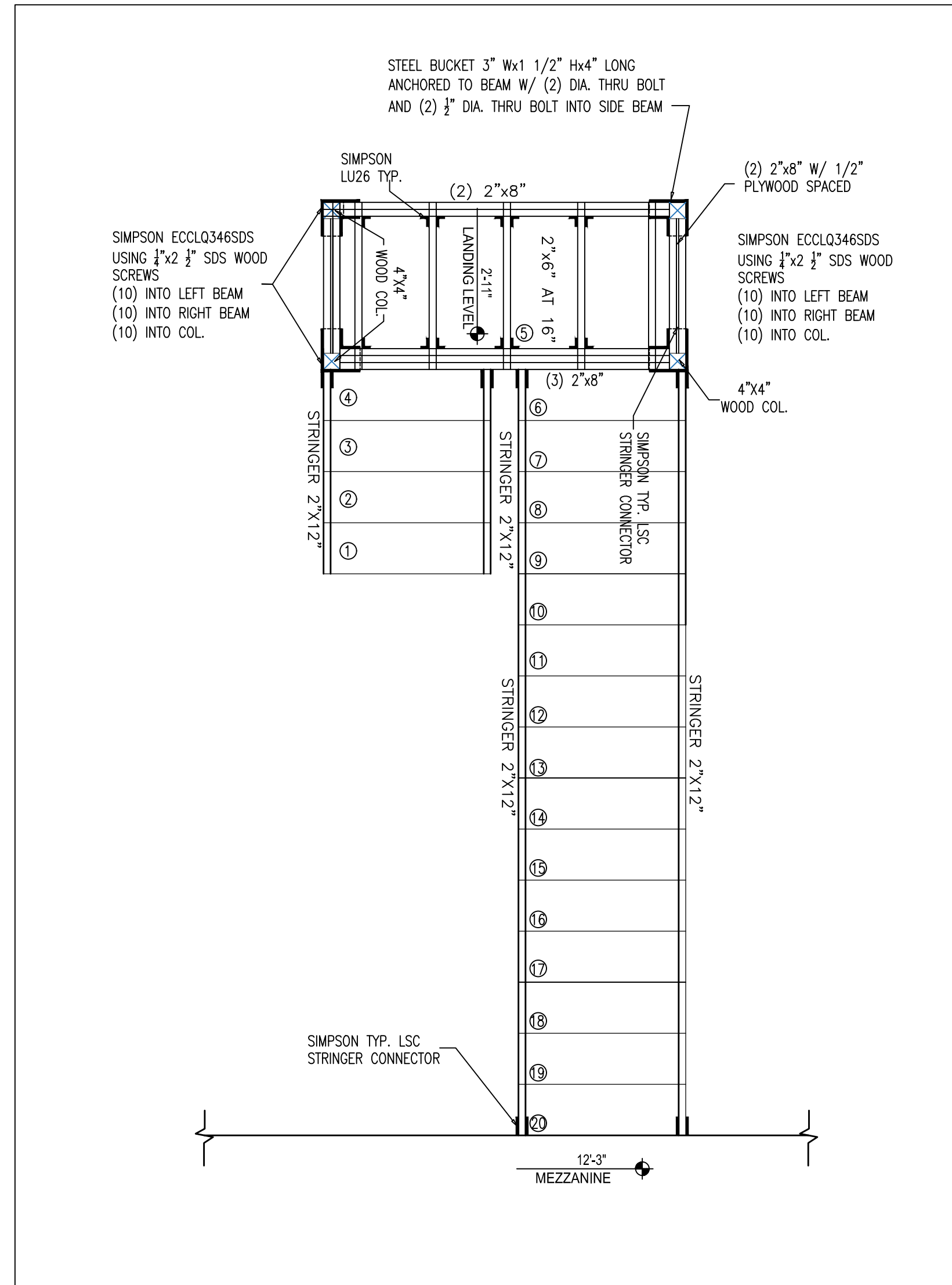
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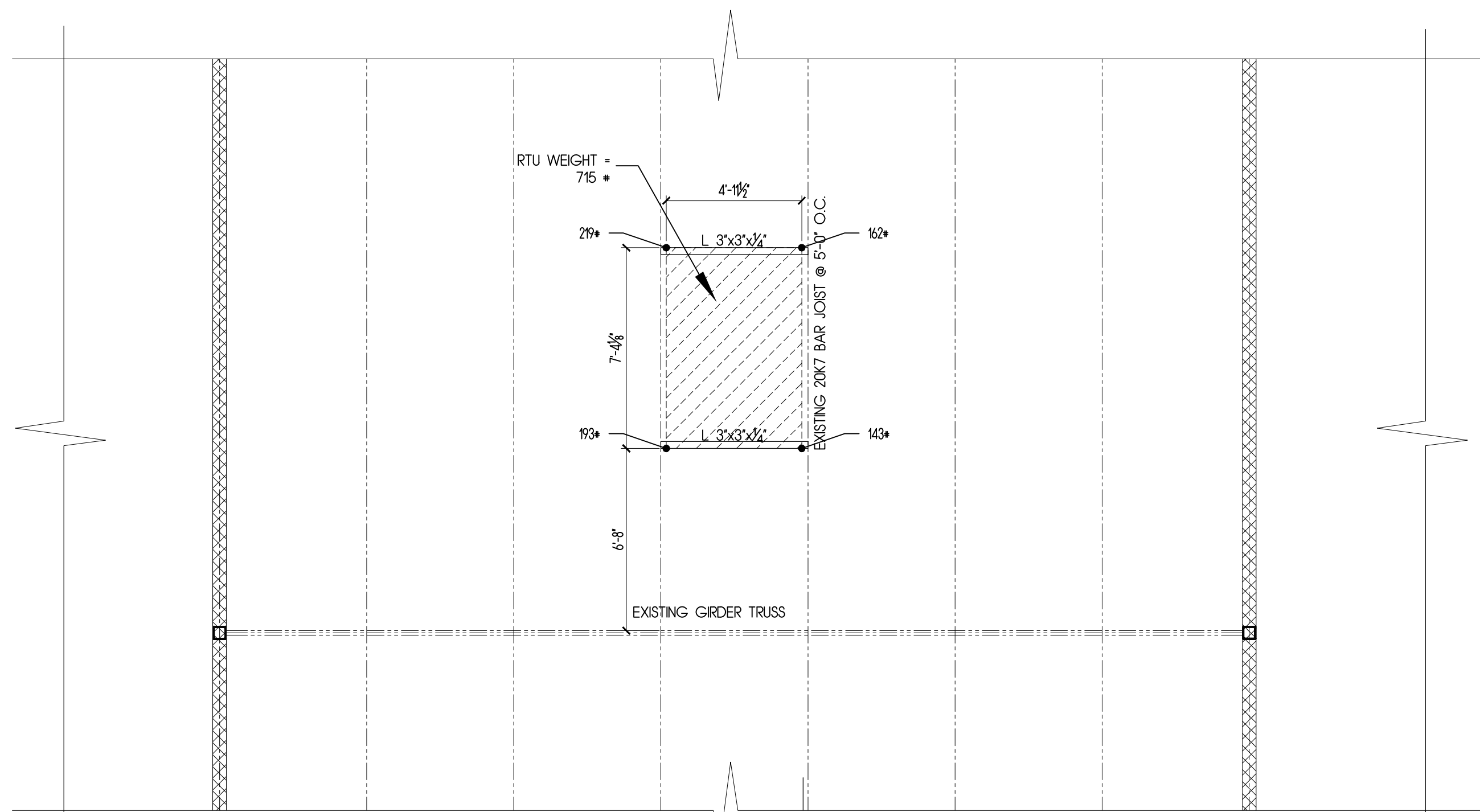
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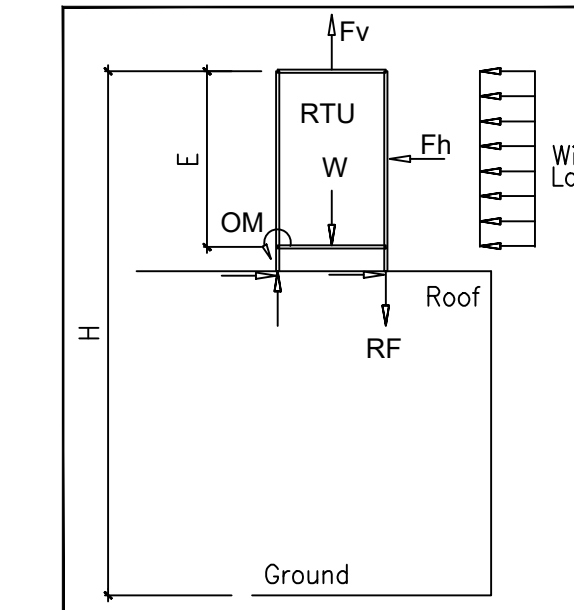
**ROOF RTU SUPPORT PLAN**

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

**1. Wind Load Roof Equipment, Based on ASCE 7-2010**

**INPUT DATA & DESIGN SUMMARY**

BASIC WIND VELOCITY  $V = 176$  mph  
 EXPOSURE TYPE (B, C, D)  $=> C$   
 RTU TOP ELEVATION  $H = 35$  ft  
 HEIGHT OF STRUCTURE  $h = 31$  ft, (ASCE Fig. 29.5-1 note 3)  
 BUILDING WIDTH  $B = 191$  ft  
 BUILDING LENGTH  $L = 390$  ft  
 RTU VERTICAL SIZE  $E = 4$  ft  
 RTU HORIZONTAL SIZE (l)  $D1 = 7.33$  ft, (ASCE Fig. 29.5-1)  
 RTU HORIZONTAL SIZE (b)  $D2 = 5$  ft  
 VERTICAL PROJECTED AREA  $A_f = 29.32$  ft<sup>2</sup>  
 HORIZONTAL PROJECTED AREA  $A_p = 36.65$  ft<sup>2</sup>  
 TOPOGRAPHIC FACTOR  $K_{zt} = 1$  Flat, (26.8 & Table 26.8-1)



Out-of-plane load for RTU design  $P = 209.0$  psf, Horizontal  
 $F_h = 6.126$  kips, Horizontal

$F_u = 3.706$  kips, uplift  
 $F_v = 3.196$  kips, vertical

**WIND ANALYSIS**

Out-of-plane wind force for screen design (ASCE 7-10, 29.5.1)

$A_f = 29.32 < (0.1 Bh) = 592.1$  (THEREFORE FBC 1620.6 applies where  $GC_f = 3.1$  for  $A_f$  &  $GC_r = 1.5$  for  $A_r$ )

$F_h = PA_f = q_h GC_f A_f = (0.00256 K_z K_d K_e V^2) GC_f A_f = (209.0 \text{ psf}) A_f = 6.126$  kips, Horizontal

Where:  $GC_f = \text{Max}\{\text{Min}[2 - A_f / (Bh), 1.9], 3.1\} = 3.1$ , (ASCE 7-10 Eq. 29.5-2) FBC 1620.6

$h_c = 33$  ft, centroid height of the RTU

$Bh = 5921$  ft<sup>2</sup>, building side area (ASCE 7-10 Eq. 29.5-2)

$K_z = 1.00$ , (ASCE 7-10 Tab. 29.3-1)

$K_d = 0.85$ , (ASCE 7-10 26.6)

$F_v = PA_r = q_h GC_r A_r = (0.00256 K_z K_d K_e V^2) GC_r A_r = (101.1 \text{ psf}) A_r = 3.706$  kips, Vertical

Where:  $GC_r = \text{Max}\{\text{Min}[2 - A_r / (BL), 1.5], 1.5\} = 1.50$ , (ASCE 7-10 Eq. 29.5-3)

$BL = 74490$  ft<sup>2</sup>, building side area (ASCE 7-10 Eq. 29.5-3)

**2. Overturning Moment Calculation**

RTU weight = 0.96 kips  
 overturning moment =  $(1.5)(F_h)(E/2) = 18.4$  kip-ft  
 restoring force req =  $((RTU w)(D2/2) - (OM))/D2 = -3.2$  kip

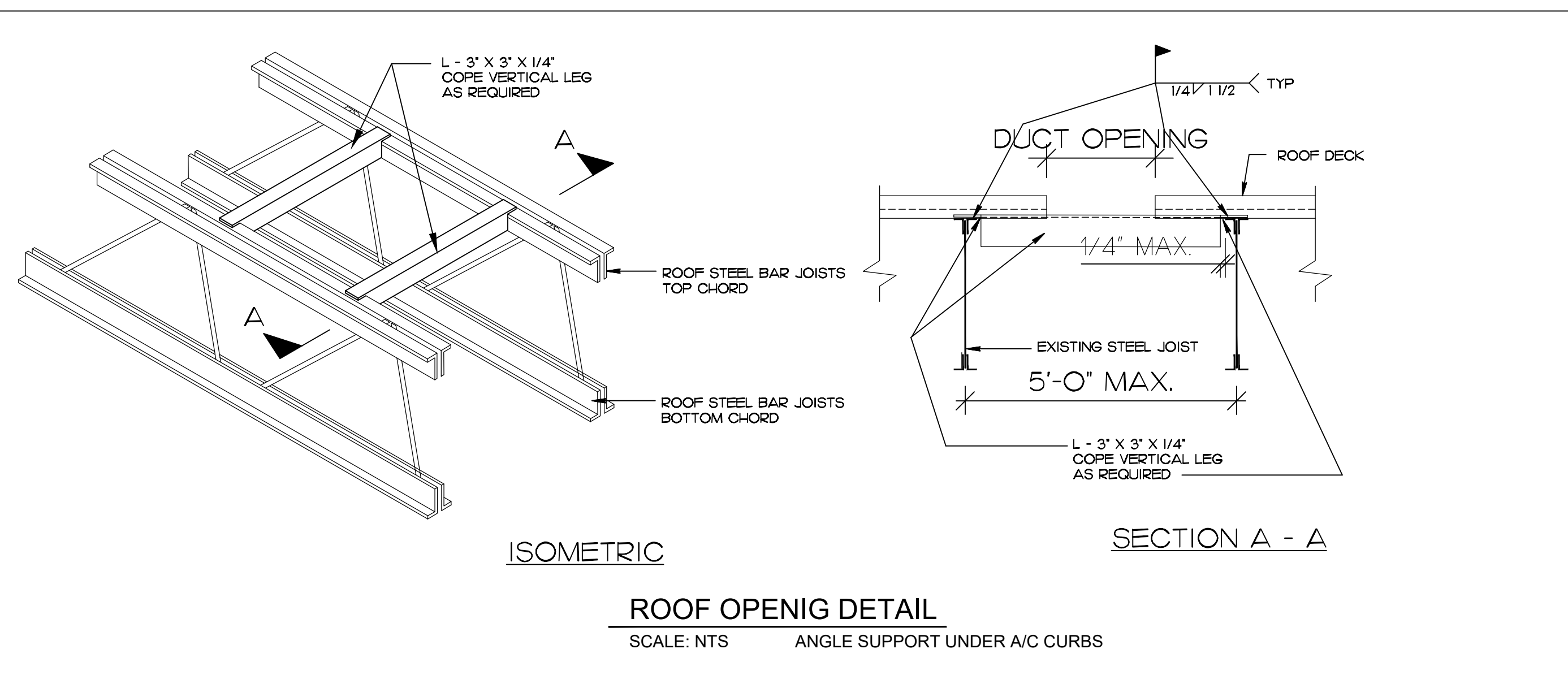
therefore 3.71 kips restoring vertical load is worst case

**3. Bolt Anchorage Calculation**

3/8" dia threaded galv steel rods ASTM A575 allowable tension capacity = 610 lbs

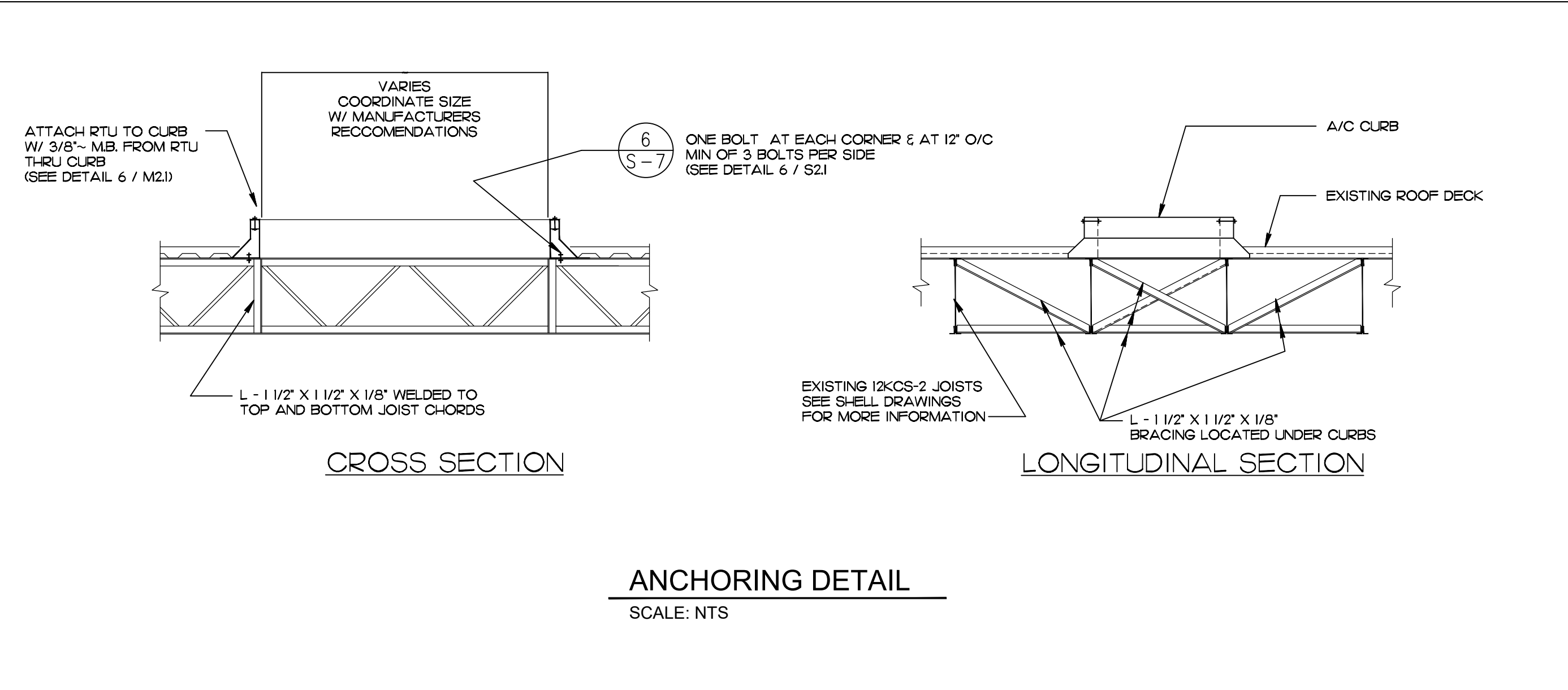
Req number of bolts on critical side = (restoring vertical load) / tensional bolt capacity = 5.2 bolts

therefore provide (1) in each corner, & 3 bolts spaced at 20.7 inches on center



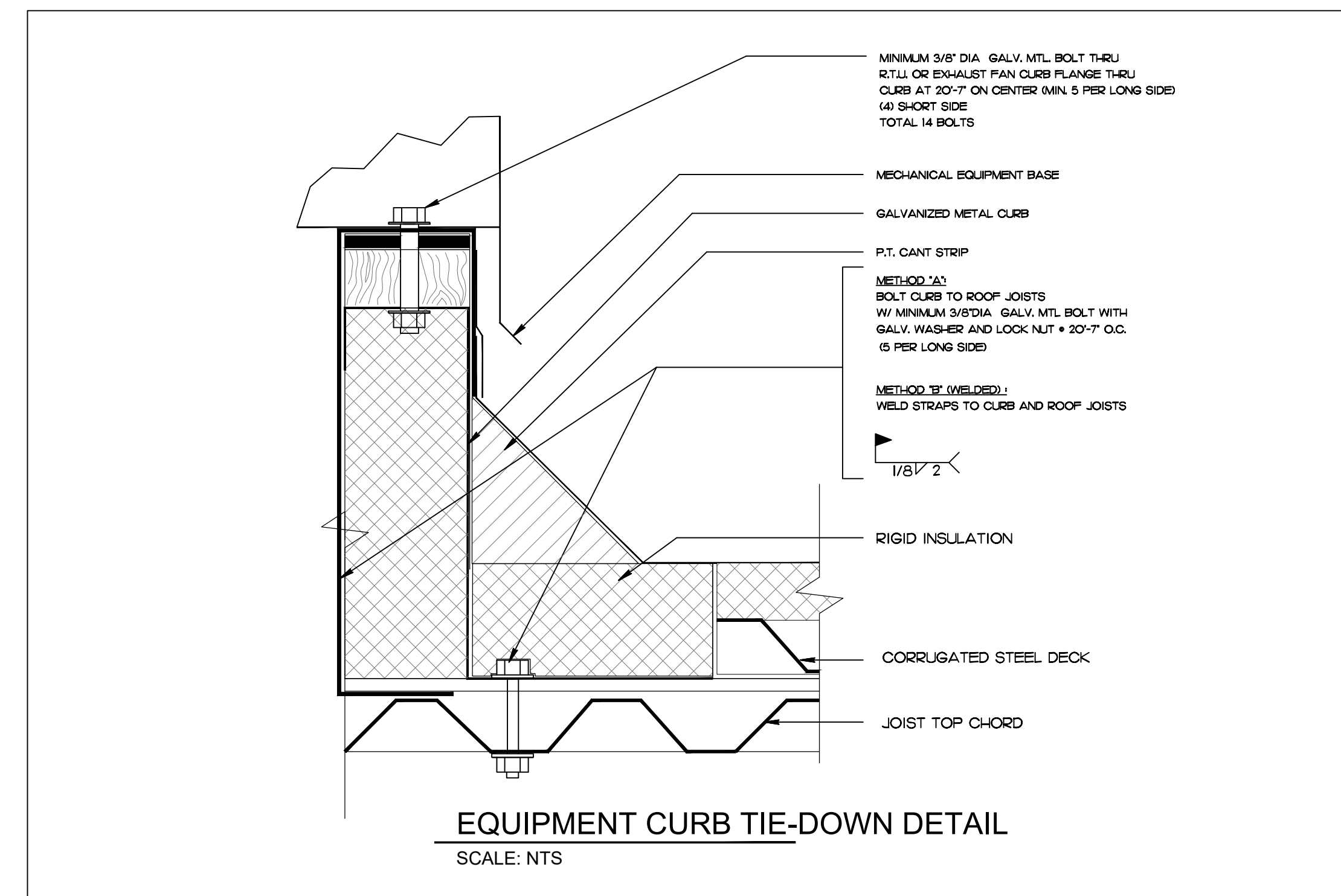
**ROOF OPENING DETAIL**

SCALE: NTS ANGLE SUPPORT UNDER A/C CURBS



**ANCHORING DETAIL**

SCALE: NTS



**EQUIPMENT CURB TIE-DOWN DETAIL**

SCALE: NTS

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CLIENT  
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DESIGNED BY:  
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DRWN: START DATE  
**JUL - BA 9-11-2015**

CHKD: ISSUE DATE  
**P.D.A. 9-25-2015**

SIGN & SEAL

DATE:  
**PHILIP D. AGUIRRE, R.A.**  
**FL-AR0092740**

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**COMMERCIAL INTERIOR BUILDOUT**  
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CLIENT  
**HERNAN LUGO**

DESIGNED BY:  
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**P.D.A. 9-25-2015**

SIGN & SEAL

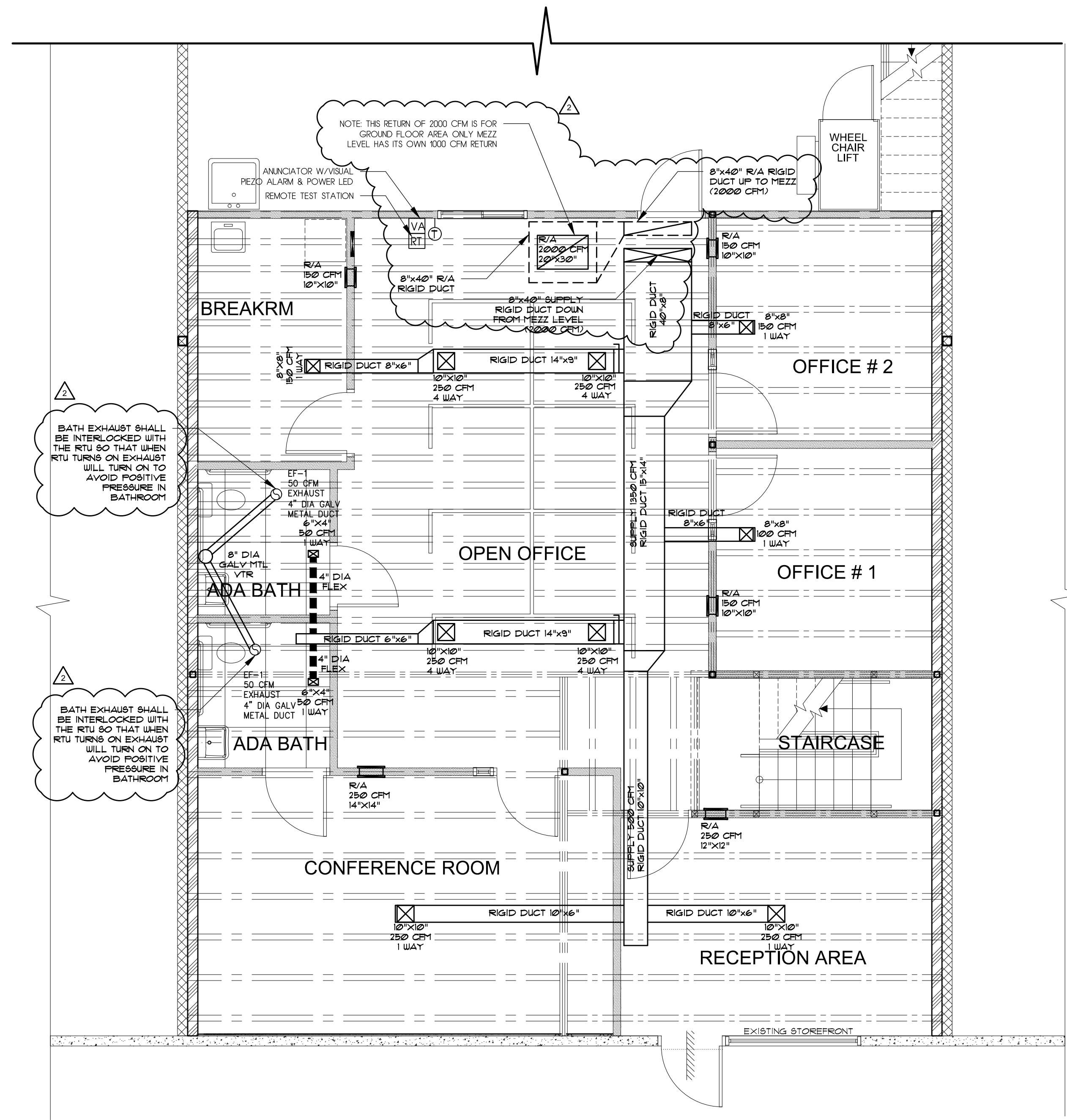
DATE:  
**PHILIP D. AGUIRRE, R.A.**  
**FL-AR092740**

ACAD DWG PROJ NO.  
**SERVER/5/ 15-46**  
**5TU GROUP INC**

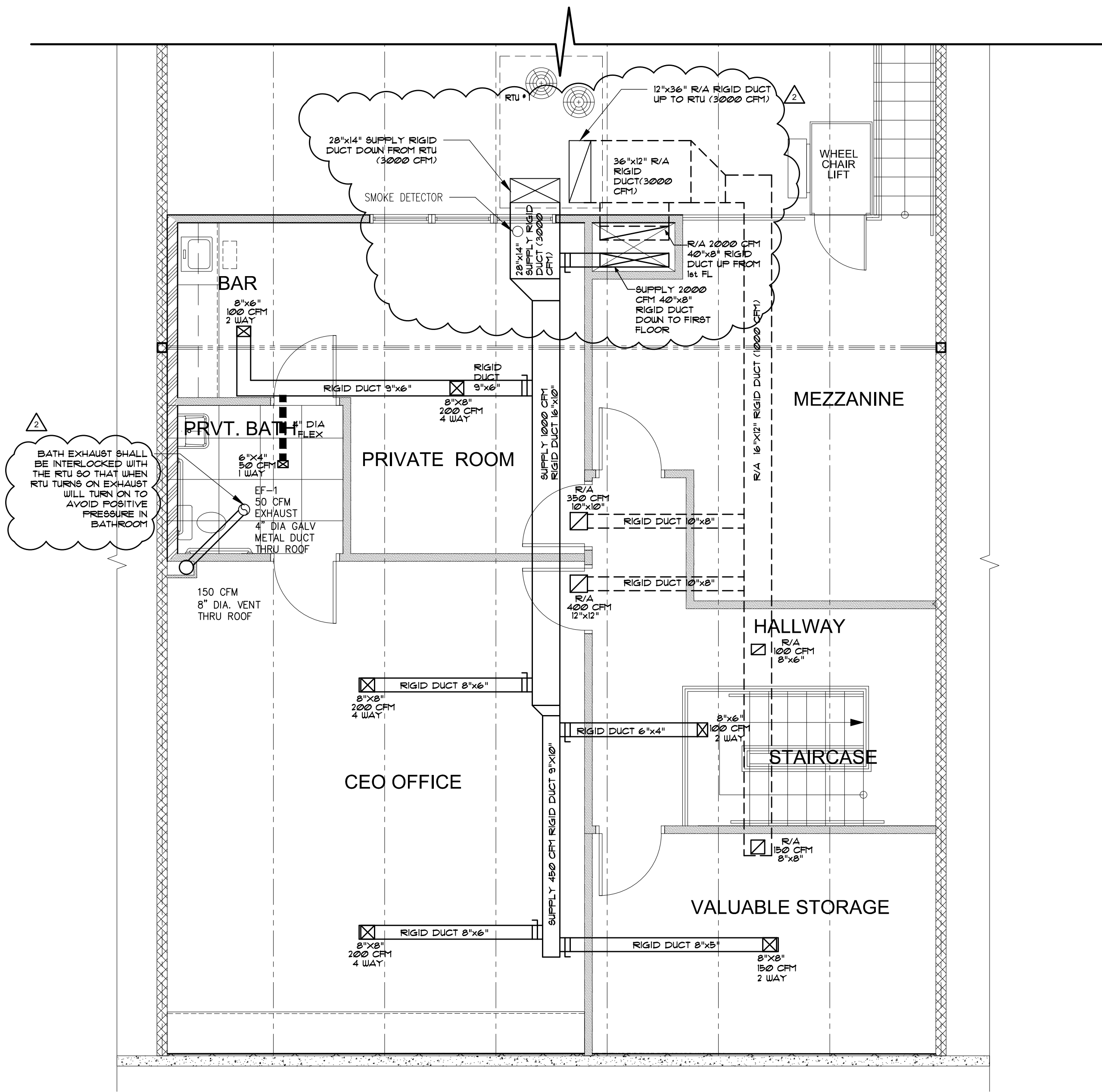
SHEET  
**M-1**

### HYVAC LEGEND

- RETURN AIR
- DIFFUSER SUPPLY
- BALANCING DAMPER
- SUPPLY RIGID DUCTING IN CONDITIONED SPACE R-4.0
- RETURN RIGID DUCTING IN CONDITIONED SPACE R-4.0
- FLEXIBLE DUCT R-4.0
- INDICATES EXHAUST FAN  
EF-1
- PROGRAMMABLE THERMOSTAT



**GROUND FLOOR MECHANICAL PLAN**  
 SCALE: 1/4" = 1'-0"



**MEZZANINE MECHANICAL PLAN**  
 SCALE: 1/4" = 1'-0"







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2

**OUTSIDE AIR CALCULATION**

PER FBC M 2014 CHAPTER 4 TABLE 403.3

$P_z = \text{Density} / 1000 \times \text{Area}$   
 $V_{bz} = A_z R_a + P_z R_p$

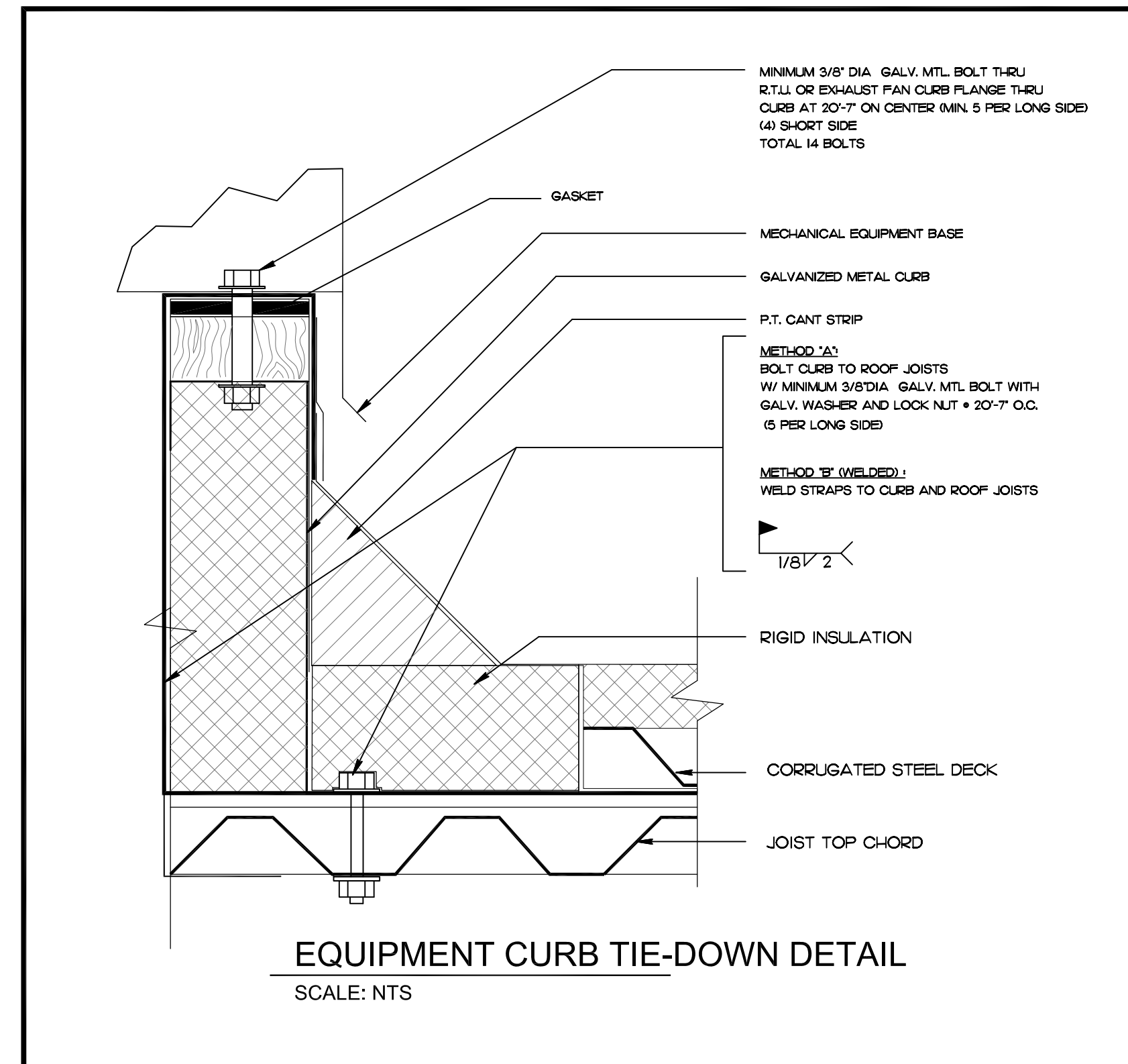
| SPACE                          | OCCUPANCY CLASSIFICATION | OCCUPANCY SUB-CLASSIFICATION | BREATHING ZONE AREA SQ. FT. (Az) | PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE CFM/SF Ra | DEFAULT OCCUPANT DENSITY #/1000 FT2 | NUMBER OF PEOPLE Pz | PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE CFM/P (Rp) | O/A CFM Vbz |
|--------------------------------|--------------------------|------------------------------|----------------------------------|---|-------------------------------------|---------------------|--|-------------|
| MANAGER OFFICE                 | OFFICES                  | OFFICE SPACE                 | 273                              | 0.06 CFM / SF   | 5                                   | 2                   | 5  | 27          |
| OFFICE #1                      | OFFICES                  | OFFICE SPACE                 | 116                              | 0.06 CFM / SF   | 5                                   | 1                   | 5  | 12          |
| OFFICE #2                      | OFFICES                  | OFFICE SPACE                 | 116                              | 0.06 CFM / SF   | 5                                   | 1                   | 5  | 12          |
| BREAK ROOM                     | OFFICES                  | OFFICE SPACE                 | 88                               | 0.06 CFM / SF   | 5                                   | 1                   | 5  | 11          |
| RECEPTION                      | OFFICES                  | RECEPTION AREA               | 165                              | 0.06 CFM / SF   | 5                                   | 1                   | 5  | 15          |
| CEO OFFICE                     | OFFICES                  | OFFICE SPACE                 | 491                              | 0.06 CFM / SF   | 5                                   | 3                   | 5  | 45          |
| CONFERENCE ROOM                | OFFICES                  | CONFERENCE ROOMS             | 263                              | 0.06 CFM / SF   | 50                                  | 14                  | 5  | 70          |
| OPEN OFFICE                    | OFFICES                  | OFFICE SPACES                | 485                              | 0.06 CFM / SF   | 5                                   | 3                   | 5  | 44          |
| VALUABLE STORAGE               | RETAIL                   | STORAGE ROOMS                | 173                              | 0.12 CFM / SF   | --                                  | --                  | --   | 21          |
| HALLWAY                        | PUBLIC SPACE             | CORRIDORS                    | 137                              | 0.06 CFM / SF   | --                                  | --                  | --   | 9           |
| <b>TOTAL CFM O.A. REQUIRED</b> |                          |                              |                                  |   |                                     |                     |  | <b>266</b>  |
| <b>UNIT</b>                    |                          |                              | <b>O/A PROVIDED</b>              |   |                                     |                     |  |             |
| RTU # 1                        |                          |                              | 275 CFM                          |   |                                     |                     |  |             |
| <b>TOTAL CFM O.A. PROVIDED</b> |                          |                              |                                  |   |                                     |                     |  | <b>275</b>  |

**MECHANICAL EXHAUST CALCULATION**

|                        |          |         |                |   |                |
|------------------------|----------|---------|----------------|---|----------------|
| PRIVATE BATH 1st FLOOR | 1 TOILET | FIXTURE | @ 50 CFM / FIX | = | 50 CFM         |
| ADA BATH 1st FLOOR     | 1 TOILET | FIXTURE | @ 50 CFM / FIX | = | 50 CFM         |
| PRIVATE BATH 2nd FLOOR | 1 TOILET | FIXTURE | @ 50 CFM / FIX | = | 50 CFM         |
| <b>TOTAL EXHAUST</b>   |          |         |                |   | <b>150 CFM</b> |

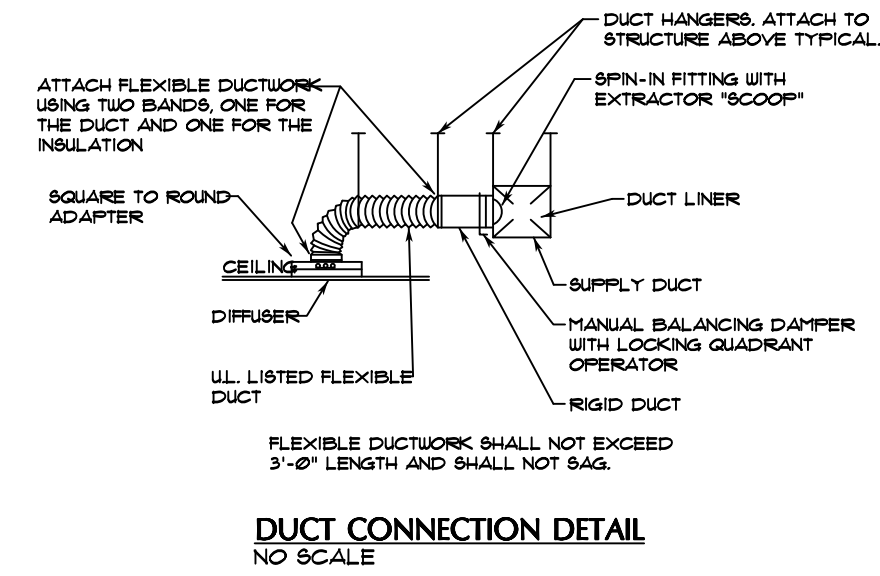
**SHUTOFF DAMPER CONTROLS**

RTU #1 AND EXHAUST DUCTS SHALL BE EQUIPPED WITH MOTORIZED DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SYSTEMS OR SPACES SERVED ARE NOT IN USE



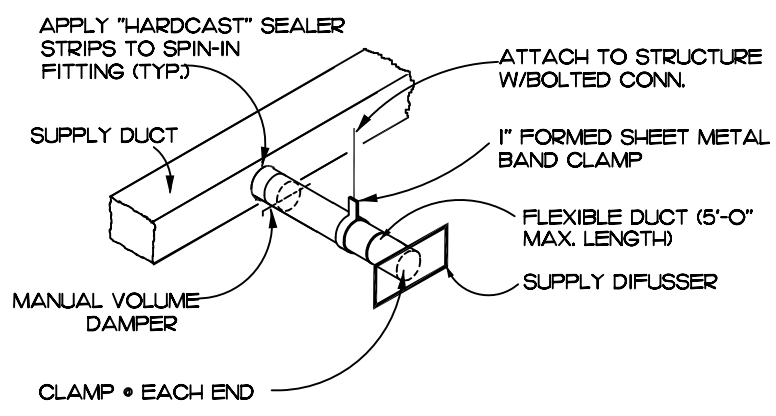
**EQUIPMENT CURB TIE-DOWN DETAIL**

SCALE: NTS



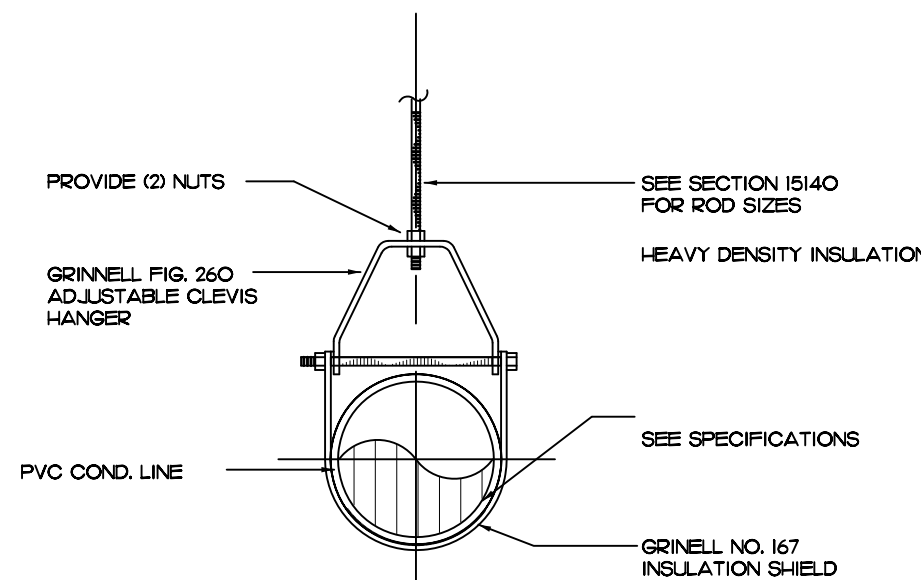
**DUCT CONNECTION DETAIL**

NO SCALE



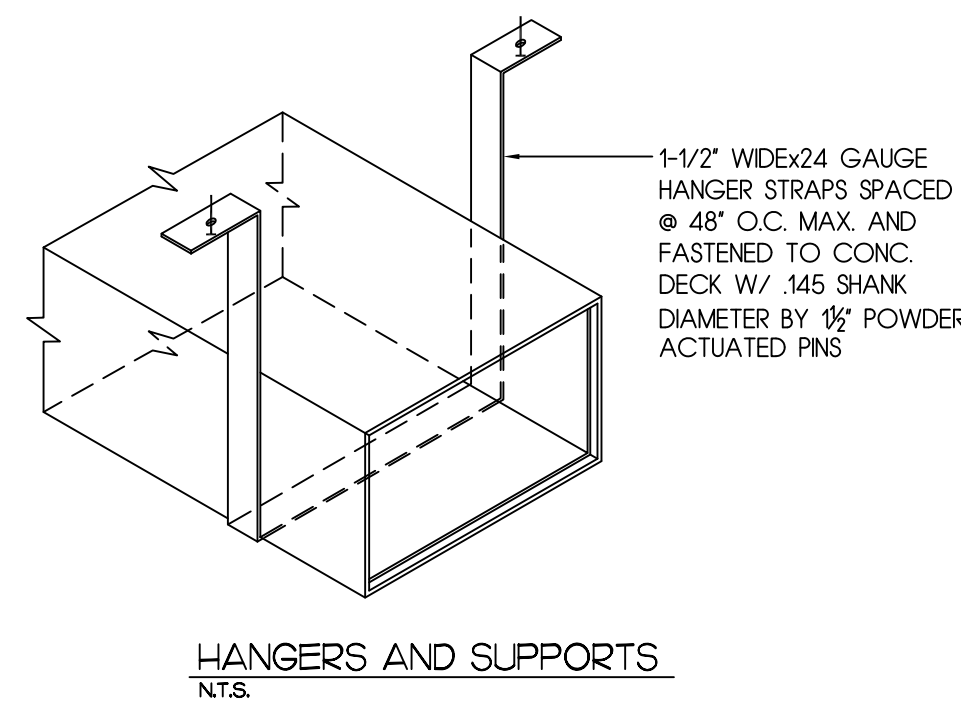
**TYPICAL DIFFUSER RUN-OUT DETAIL**

NO SCALE



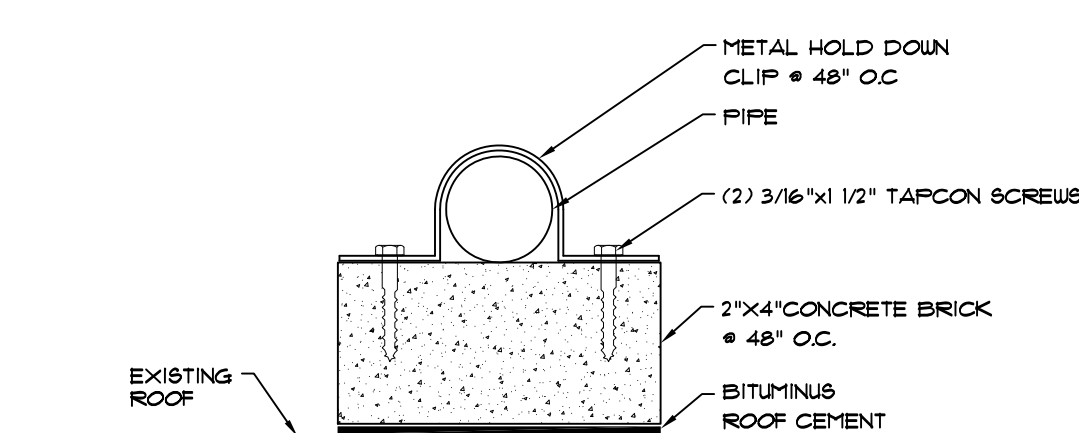
**PIPE SUPPORT DETAIL**

SCALE: NTS



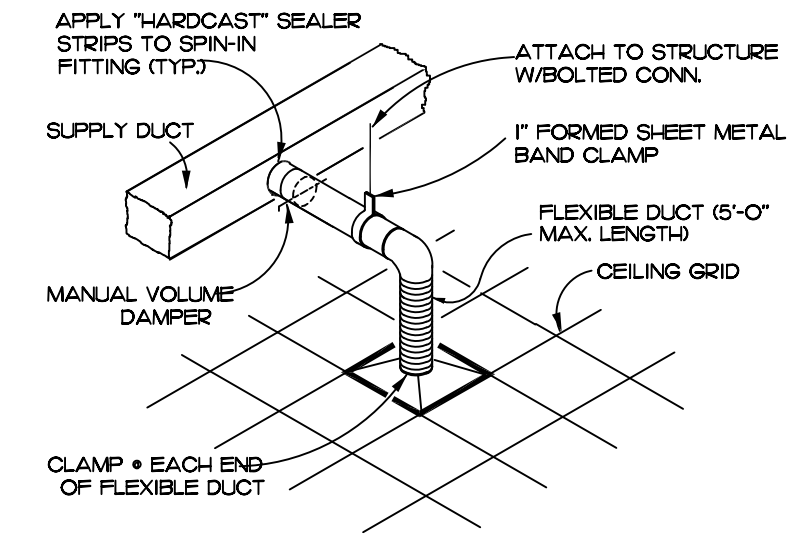
**HANGERS AND SUPPORTS**

NTS



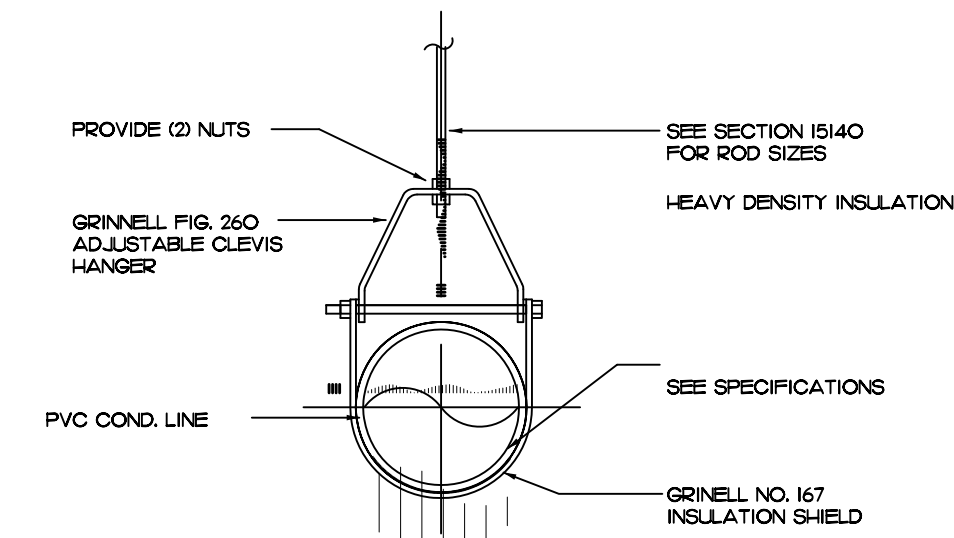
**CONDENSATE LINE SUPPORT DETAIL**

NTS



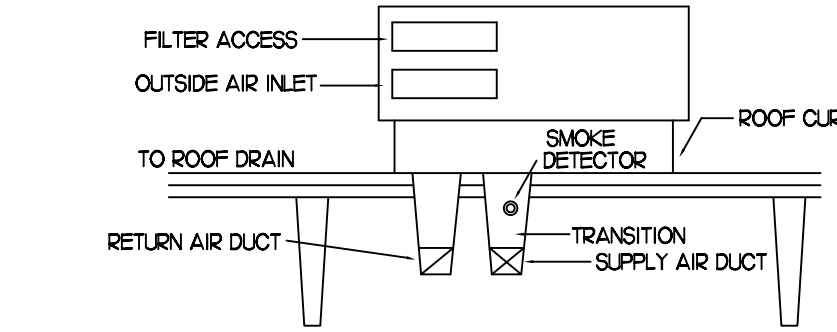
**TYPICAL DIFFUSER RUN-OUT DETAIL AT BATHROOMS**

NO SCALE



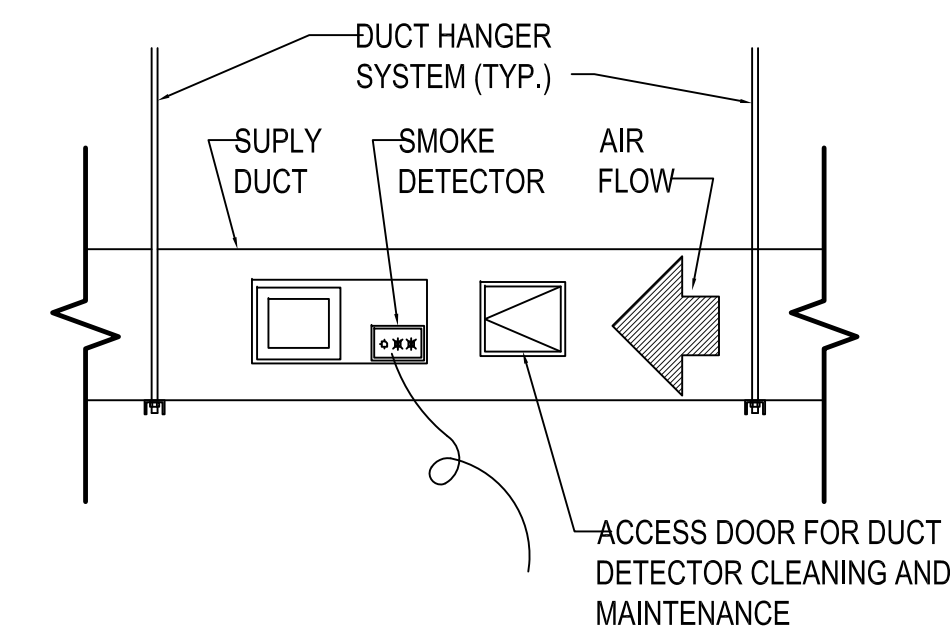
**PIPE SUPPORT DETAIL**

SCALE: NTS



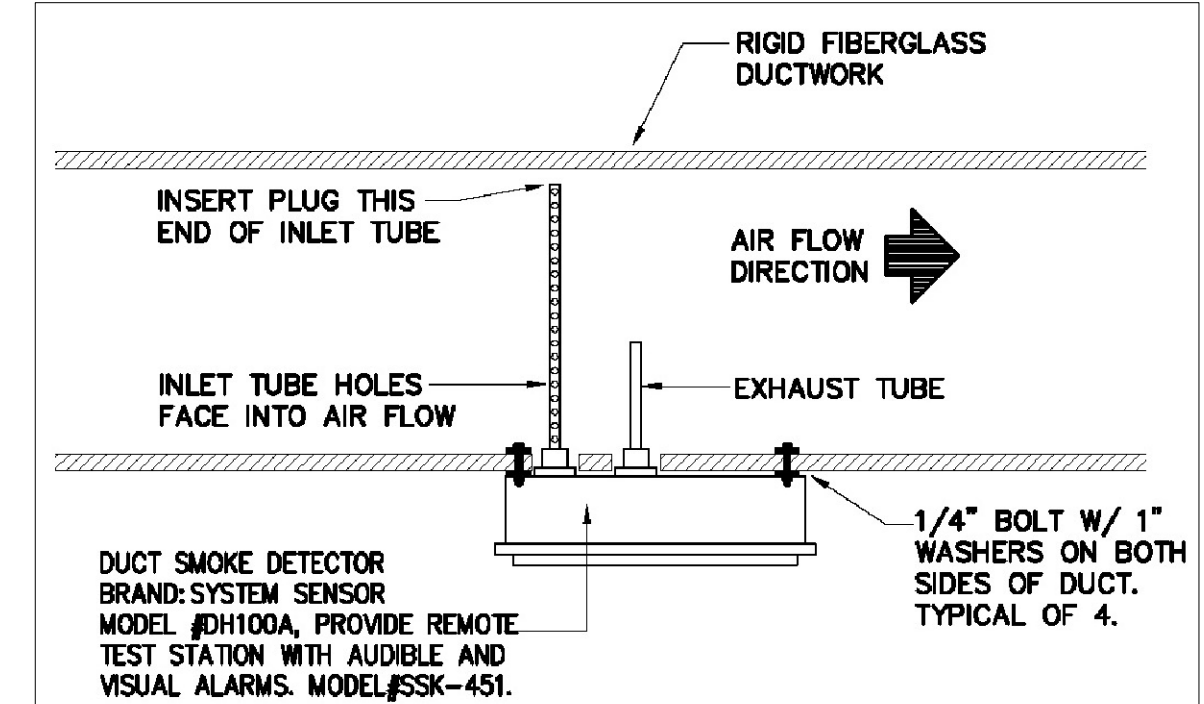
**ROOF TOP UNIT DETAIL (TYP.)**

SCALE: NTS



**DUCT SMOKE DETECTOR FRONT VIEW DETAIL**

SCALE: NTS

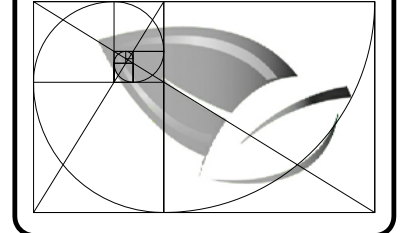


**DUCT SMOKE DETECTOR PLAN VIEW DETAIL**

SCALE: NTS

| NO. | DATE    | DESCRIPTION       |
|-----|---------|-------------------|
| 1   | 11-2-15 | PER CITY COMMENTS |
| 2   | 1-11-16 | PER CITY COMMENTS |

**P.A. architect, inc.**  
 ARCHITECTURAL | INTERIOR | EXTERIOR | MECHANICAL | ELECTRICAL  
 5450 GRIFFIN ROAD, SUITE 102  
 DAVIE, FLORIDA, 33114  
 TEL (954) 594-6860 FAX: (954) 591-2631  
 e-mail: paguirre@pa-architect.com  
 FLORIDA LICENSE AA-26001926



**COMMERCIAL INTERIOR BUILDOUT**  
**A&S COURIER INTERNATIONAL, LLC**  
**7620 NW 25th STREET**  
**MIAMI, FLORIDA, 33122**

CLIENT  
**HERNAN LUGO**

DESIGNED BY:  
**PHILIP D. AGUIRRE**

DRWVN: **J.J.L. - BA** START DATE: **9-11-2015**

CHKD: **P.D.A.** ISSUE DATE: **9-25-2015**

SIGN & SEAL

DATE:  
**PHILIP D. AGUIRRE, R.A.**  
**FL-AR0092740**

ACAD DWG: **15-40** PROJ NO.  
 SERVER / S: **15-40**  
 DTU GROUP INC

SHEET  
**M-3**



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| NO. | DATE | REVISIONS | DESCRIPTION |
|-----|------|-----------|-------------|
|     |      |           |             |

**P.A. architect, inc.**  
 ARCHITECTURAL PLANNING DESIGN  
 5450 GRIFFIN ROAD, SUITE B2 33314  
 DAVIE, FLORIDA  
 TEL: (954) 584-6880 FAX: (954) 581-2631  
 e-mail: paguirre@pa-architect.com  
 FLORIDA LICENSE AA-26001926

**COMMERCIAL INTERIOR BUILDOUT**  
**46 COURIER INTERNATIONAL, LLC**  
**1620 NW 25th STREET**  
**MIAMI BUILDING "C" UNIT # 2**  
**FLORIDA, 33122**

CLIENT  
**HERNAN LUGO**

DESIGNED BY:  
**PHILIP D. AGUIRRE**

DRWN: **JUL - BA** START DATE: **9-11-2015**

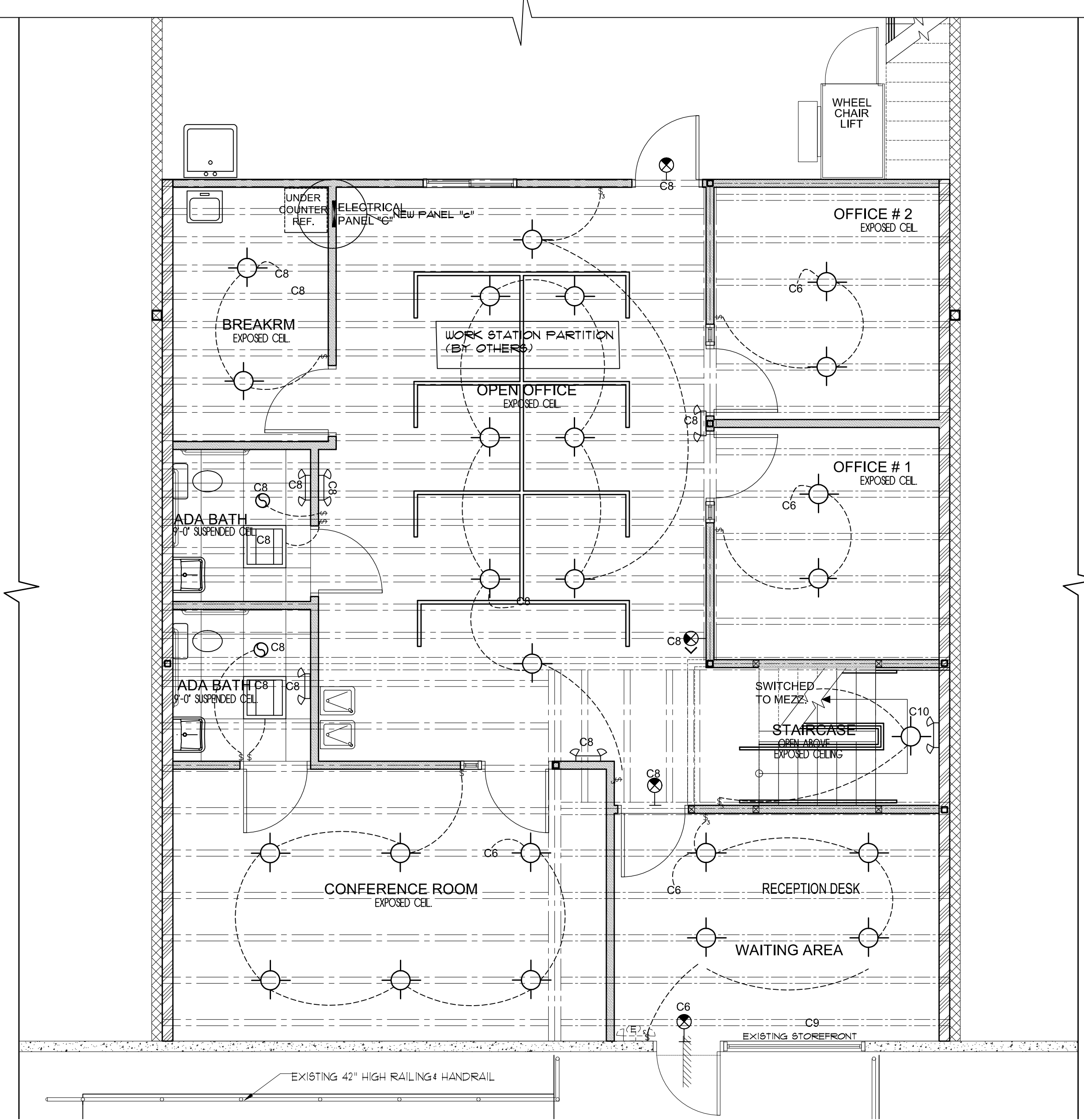
CHKD: **P.D.A.** ISSUE DATE: **9-25-2015**

SIGN & SEAL

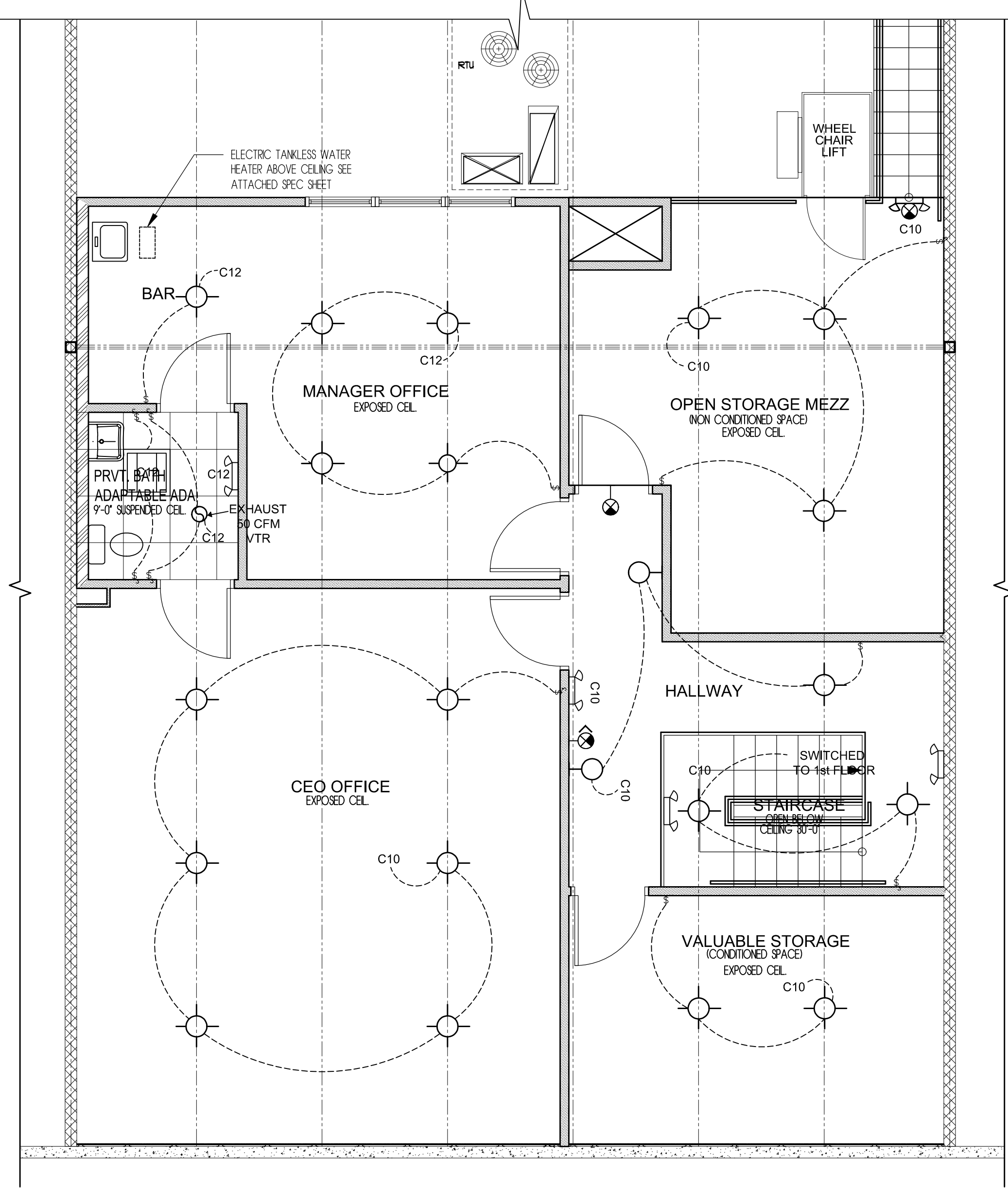
DATE:  
**PHILIP D. AGUIRRE, R.A.**  
**FL-AR0092740**

ACAD DWG: **SERVER / 8 / 011 GROUP INC** PROJ NO: **15-46**

SHEET  
**E-1**



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



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

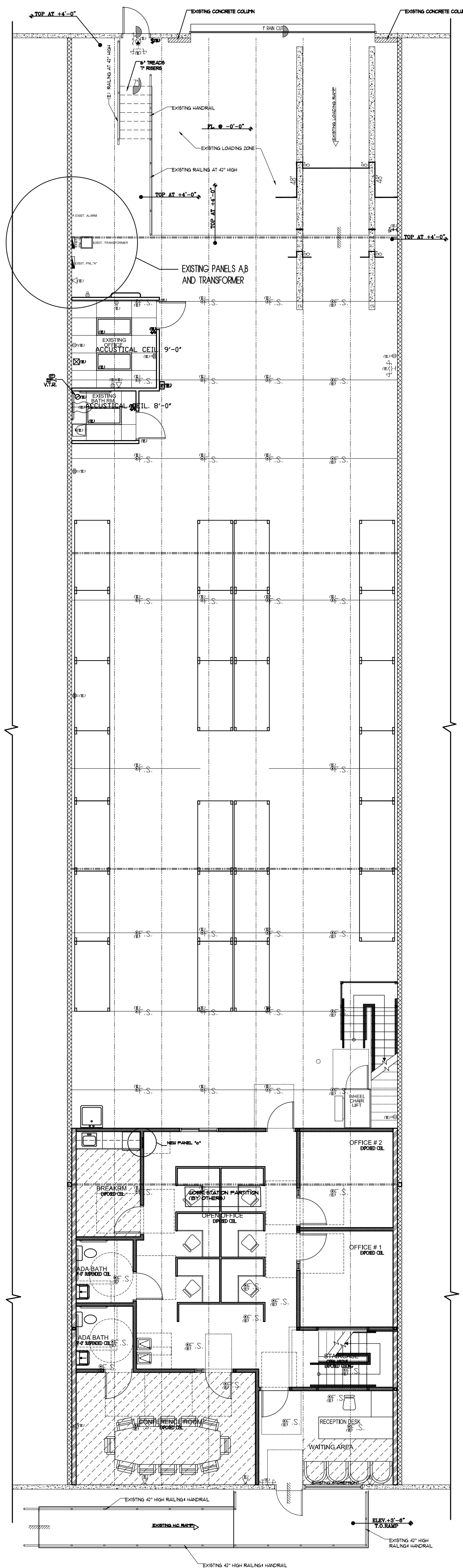
LIGHTING NOTE:  
 PER FBC (E) C405.2.2.2. ALL SPACES SHALL BE PROVIDED WITH OCCUPANCY SENSORS

| NEW & EXISTING ELECTRICAL LEGEND |   |
|----------------------------------|---|
| \$                               | NEW LIGHT SWITCH  |
| §                                | 3 WAY LIGHT SWITCH  |
| ⊙                                | COMPACT FLUORESCENT 23W MAX. PENDANT CEILING MOUNT LIGHTING FIXTURE BY OWNER  |
| ⊖                                | COMPACT FLUORESCENT 23W MAX WALL MOUNT LIGHT FIXTURE  |
| ⊙                                | INDICATES EXISTING WALL MOUNTED COMBO EMERGENCY LIGHT EXIT SIGN FIXTURE W/ BATTERY BACK-UP AND SELF DIAGNOSTICS TO REMAIN |
| ⊖                                | INDICATES CEIL. RECESS MOUNT. FLUORESCENT LIGHTING FIXTURE  |
| ⊙                                | INDICATES NEW WALL MOUNTED COMBO EMERGENCY LIGHT EXIT SIGN FIXTURE W/ BATTERY BACK-UP AND SELF DIAGNOSTICS                |
| ⊖                                | INDICATES NEW WALL MOUNTED EMERGENCY LIGHT FIXTURE W/ BATTERY BACK-UP AND SELF DIAGNOSTICS TO REMAIN                      |
| ⊙                                | EXHAUST FAN TO REMAIN   |
| ---                              | ELECTRICAL WIRE TO REMAIN   |
| (E)                              | INDICATES EXISTING TO REMAIN  |
| (R)                              | INDICATES RELOCATED   |
| (RE)                             | INDICATES REMOVED   |
| (N)                              | INDICATES NEW   |









TYPE: SQUARE D OR APPROVED EQUAL  
 SERVICE: NEUTRAL  
 VOLTAGE: 480/277 3Ø 4W  
 MOUNTING: WALL MOUNT.

**EXISTING MAIN PANEL "A"**

| AMPS | POLES | LOAD V.A. |        |       | COND. | WIRE | REMARKS                  | CKT NO. | CKT NO. | REMARKS               | WIRE | COND. | LOAD V.A. |        |        | POLES | AMPS |
|------|-------|-----------|--------|-------|-------|------|--------------------------|---------|---------|-----------------------|------|-------|-----------|--------|--------|-------|------|
|      |       | A         | B      | C     |       |      |                          |         |         |                       |      |       | A         | B      | C      |       |      |
| 20   | 1     | 2000      |        |       |       | 12   | GENERAL LIGHTING         | 1       | 2       |                       |      |       |           |        |        |       |      |
| 20   | 1     | 1500      |        |       |       | 12   | GFCI AC RECEPTACLE       | 5       | 6       | H-BAY LIGHTING        | 12   | 1/2   | 1000      |        | 1      | 20    |      |
| 80   | 3     | 8,640     |        | 8,640 | 1     | 4    | R.T.U. 1 (7.5 TONS UNIT) | 7       | 8       | H-BAY LIGHTING        | 12   | 1/2   | 1000      |        | 1      | 20    |      |
|      |       |           |        |       |       |      |                          | 9       | 10      | PANEL "B" TRANSFORMER | 1    | 1 1/4 | 13,034    | 13,034 | 3      | 125   |      |
|      |       |           |        |       |       |      |                          | 11      | 12      |                       |      |       | 13,034    |        |        |       |      |
|      |       |           |        |       |       |      |                          | 13      | 14      |                       |      |       |           |        |        |       |      |
|      |       |           |        |       |       |      |                          | 15      | 16      |                       |      |       |           |        |        |       |      |
|      |       |           |        |       |       |      |                          | 17      | 18      |                       |      |       |           |        |        |       |      |
|      |       | 10,640    | 10,140 | 8,640 |       |      |                          |         |         |                       |      |       | 14,034    | 14,034 | 13,034 |       |      |

CONNECTED LOAD LESS CONT. LIGHTS AND RTU = 42,602 WATTS  
 CONT. LIGHT LOAD 4,000 @ 125% = 5,000 WATTS  
 RTU LARGEST MOTOR 25,920 @ 125% = 32,400 WATTS  
 TOTAL DEMAND LOAD = 80,002 WATTS

$\frac{80,002 \text{ WATTS}}{\sqrt{3} (480 \text{ V})} = 97 \text{ AMPS.}$

TOTAL LOAD IS 97 AMPS THEREFORE THE EXISTING 125 AMPS SERVICE OK

(3) #1 THHN & 1 #6 C.U.  
 FEEDER : BOND IN 1-1/2" PVC COND.  
 FED FROM: ELECTRICAL ROOM

TYPE: SQUARE D OR APPROVED EQUAL  
 SERVICE: NEUTRAL  
 VOLTAGE: 120/208 3Ø 4W  
 MOUNTING: FLUSH

**EXISTING PANEL "B" ( M.D.P.)**

| AMPS | POLES | LOAD V.A. |       |       | COND. | WIRE | REMARKS    | CKT NO. | CKT NO. | REMARKS            | WIRE | COND. | LOAD V.A. |        |        | POLES | AMPS |
|------|-------|-----------|-------|-------|-------|------|------------|---------|---------|--------------------|------|-------|-----------|--------|--------|-------|------|
|      |       | A         | B     | C     |       |      |            |         |         |                    |      |       | A         | B      | C      |       |      |
| 20   |       | 900       |       |       |       | 12   | RECEPTACLE | 1       | 2       | GENERAL LIGHTS     | 12   |       |           |        | 1      | 20    |      |
| 20   |       | 900       |       |       |       | 12   |            | 3       | 4       | NEW SUB PANEL "C"  | 1    | 1 1/4 | 600       | 14,576 |        | 125   |      |
| 30   | 2     | 2000      |       | 2000  | 1/2   | 12   | WINDOW A/C | 5       | 6       | SPACE              |      |       |           | 14,576 | 2      |       |      |
|      |       |           |       |       |       |      |            | 7       | 8       | EF - 1 EXHAUST FAN | 12   | 1/2   | 200       |        | 1      | 20    |      |
|      |       |           |       |       |       |      |            | 9       | 10      | SIGN               | 12   | 1/2   |           | 500    | 1      | 20    |      |
| 20   | 1     | 900       |       |       | 1/2   | 12   | RECEPTACLE | 13      | 14      | DOOR MOTOR         | 12   | 1/2   | 800       |        | 1      | 20    |      |
|      |       |           |       |       |       |      |            | 15      | 16      |                    |      |       |           |        |        |       |      |
|      |       |           |       |       |       |      |            | 17      | 18      |                    |      |       |           |        |        |       |      |
|      |       |           |       |       |       |      |            | 19      | 20      |                    |      |       |           |        |        |       |      |
|      |       |           |       |       |       |      |            | 21      | 22      |                    |      |       |           |        |        |       |      |
|      |       |           |       |       |       |      |            | 23      | 24      |                    |      |       |           |        |        |       |      |
|      |       |           |       |       |       |      |            | 25      | 26      |                    |      |       |           |        |        |       |      |
|      |       |           |       |       |       |      |            | 27      | 28      |                    |      |       |           |        |        |       |      |
|      |       |           |       |       |       |      |            | 29      | 30      |                    |      |       |           |        |        |       |      |
|      |       |           |       |       |       |      |            | 31      | 32      |                    |      |       |           |        |        |       |      |
|      |       |           |       |       |       |      |            | 33      | 34      |                    |      |       |           |        |        |       |      |
|      |       |           |       |       |       |      |            | 35      | 36      |                    |      |       |           |        |        |       |      |
|      |       |           |       |       |       |      |            | 37      | 38      |                    |      |       |           |        |        |       |      |
|      |       |           |       |       |       |      |            | 39      | 40      |                    |      |       |           |        |        |       |      |
|      |       |           |       |       |       |      |            | 39      | 40      |                    |      |       |           |        |        |       |      |
|      |       | 2,900     | 1,800 | 2,000 |       |      |            |         |         |                    |      |       | 1,400     | 14,776 | 15,076 |       |      |

CONNECTED LOAD LESS CONT. LIGHTS AND RTU = 33,352 WATTS  
 CONT. LIGHT LOAD 600 @ 125% = 750 WATTS  
 RTU LARGEST MOTOR 4,000 @ 125% = 5,000 WATTS  
 TOTAL DEMAND LOAD = 39,102 WATTS

$\frac{39,102 \text{ WATTS}}{\sqrt{3} (208 \text{ V})} = 109 \text{ AMPS.}$

TOTAL LOAD IS 122 AMPS THEREFORE THE EXISTING 125 AMPS SERVICE OK

(3) #1 THHN & 1 #6 C.U.  
 FEEDER : BOND IN 1-1/2" PVC COND.  
 FED FROM: PANEL "A"

TYPE: SQUARE D OR APPROVED EQUAL  
 SERVICE: NEUTRAL  
 VOLTAGE: 240/120V 1 Ø 3 WIRE  
 MOUNTING: FLUSH

**NEW SUB PANEL "C"**

| AMPS | POLES | TOTAL V.A. | COND. | WIRE | REMARKS                           | CKT NO. | CKT NO. | REMARKS   | WIRE | COND. | TOTAL V.A. | POLES | AMPS |
|------|-------|------------|-------|------|-----------------------------------|---------|---------|---|------|-------|------------|-------|------|
| 20   | 1     | 900        | 1/2   | 12   | RECEPTION RECEPTACLE              | 1       | 2       | MICROWAVE   | 12   | 1/2   | 1500       | 1     | 20   |
| 20   | 1     | 1440       | 1/2   | 12   | OFFICE #1, #2 RECEPTACLE          | 3       | 4       | BREAKROOM, OPEN OFFICE RECEPTACLE                                 | 12   | 1/2   | 1260       | 1     | 20   |
| 20   | 1     | 900        | 1/2   | 12   | CONFERENCE ROOM RECEPTACLE        | 5       | 6       | RECEPTION, OFFICES #1, #2 AND CONFERENCE ROOM LIGHTS              | 12   | 1/2   | 550        | 1     | 20   |
| 20   | 1     | 1800       | 1/2   | 12   | BATHROOM AND BAR GFCI             | 7       | 8       | OPEN OFFICE LIGHTS, GROUND BATHS AND BREAK ROOM LIGHTS            | 12   | 1/2   | 800        | 1     | 20   |
| 20   | 1     | 1500       | 1/2   | 12   | STOREFRONT                        | 9       | 10      | CEO OFFICE, HALLWAY, OPEN MEZZ, VALUABLE STORAGE AND STAIR LIGHTS | 12   | 1/2   | 650        | 1     | 20   |
| 20   | 1     | 900        | 1/2   | 12   | CEO OFFICE RECEPTACLE             | 11      | 12      | MANAGER OFFICE AND PRVT. BATH LIGHTS                              | 12   | 1/2   | 250        | 1     | 20   |
| 20   | 1     | 720        | 1/2   | 12   | MANAGER OFFICE RECEPTACLE         | 13      | 14      | UNDER COUNTER REF   | 12   | 1/2   | 500        | 1     | 20   |
| 20   | 1     | 900        | 1/2   | 12   | HALLWAY AND OPEN MEZZ. RECEPTACLE | 15      | 16      | TANKLESS WATER HEATER   | 6    | 1/2   | 10800      | 2     | 60   |
| 20   | 1     | 720        | 1/2   | 12   | VALUABLE STORAGE                  | 17      | 18      |   |      |       |            |       |      |
| 20   | 1     | 1000       | 1/2   | 12   | MACHINE RECEPTACLE OPEN OFFICE    | 19      | 20      | LIFT PLATFORM   | 12   | 1/2   | 1500       | 1     | 20   |
|      |       |            |       |      |                                   | 21      | 22      |   |      |       |            |       |      |
|      |       |            |       |      |                                   | 23      | 24      |   |      |       |            |       |      |
|      |       |            |       |      |                                   | 25      | 26      |   |      |       |            |       |      |
|      |       |            |       |      |                                   | 27      | 28      |   |      |       |            |       |      |
|      |       |            |       |      |                                   | 29      | 30      |   |      |       |            |       |      |
|      |       |            |       |      |                                   | 31      | 32      |   |      |       |            |       |      |
|      |       |            |       |      |                                   | 33      | 34      |   |      |       |            |       |      |
|      |       |            |       |      |                                   | 35      | 36      |   |      |       |            |       |      |
|      |       |            |       |      |                                   | 37      | 38      |   |      |       |            |       |      |
|      |       |            |       |      |                                   | 39      | 40      |   |      |       |            |       |      |
|      |       |            |       |      |                                   | 41      | 42      |   |      |       |            |       |      |
|      |       | 10,780     |       |      |                                   |         |         |   |      |       | 17,810     |       |      |

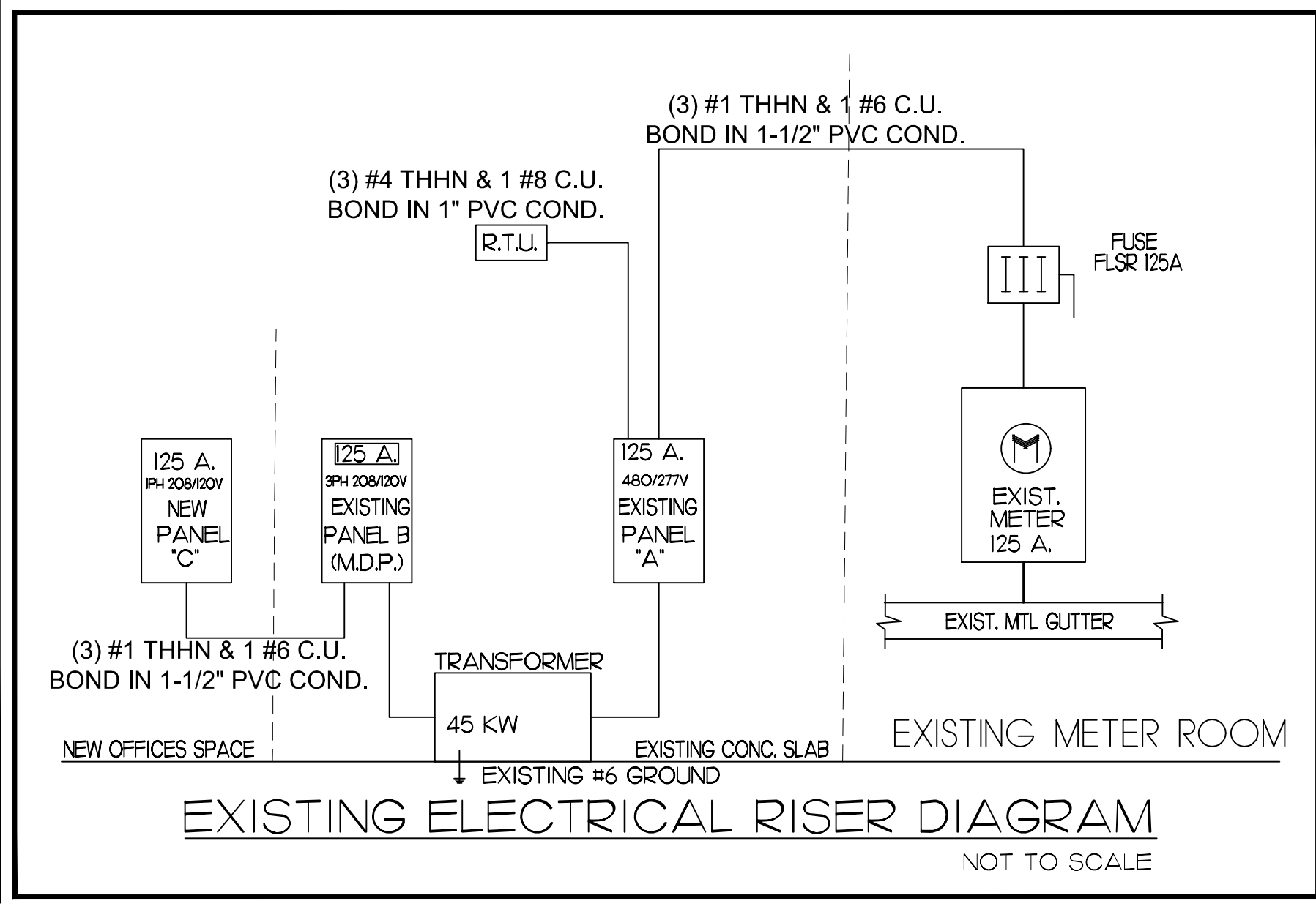
CONNECTED LOAD LESS CONT. LIGHTS = 26,340 WATTS  
 CONT. LIGHT LOAD 2,250 @ 125% = 2,812 WATTS  
 TOTAL DEMAND LOAD = 29,153 WATTS

$\frac{29,153 \text{ WATTS}}{240 \text{ V}} = 122 \text{ AMPS}$

TOTAL LOAD IS 122 AMPS THEREFORE 125 AMPS OK

(3) #1 THHN & 1 #6 C.U.  
 FEEDER : BOND IN 1-1/2" PVC COND.  
 FED FROM: PANEL "B"

- ### ELECTRICAL NOTES
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LATEST ADOPTED EDITION, AND SHALL COMPLY WITH ALL LOCAL RULES AND ORDINANCES.
  - IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
  - PERFORM ALL WORK BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE, AND ACCEPTED BY THE ARCHITECT AND/OR OWNER.
  - COORDINATE ALL WORK WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
  - MEET ALL STANDARD REQUIREMENTS OF ELECTRIC COMPANY AND TELEPHONE COMPANY FOR THEIR INSTALLATION.
  - ELECTRICAL CONTRACTOR TO SIZE AND VERIFY ALL SERVICES TO UNITS AND MAIN SERVICE.
  - PROVIDE ALL NEW MATERIALS BEARING UNDERWRITER'S AND UNION LABELS, WHERE APPLICABLE.
  - MINIMUM WIRE SIZE SHALL BE #12 AWG. EXCLUDING CONTROL WIRING. UNLESS OTHERWISE NOTED, ALL CONDUCTORS SHALL BE COPPER WITH THW INSULATION. ROMEX IS ACCEPTABLE WHERE ALLOWED PER CODE.
  - ALL RACEWAYS UNDERGROUND AND/OR LARGER THAN 2" IN DIAMETER SHALL BE GALVANIZED RIGID STEEL CONDUIT OR SCHEDULE 40 PVC. ALL OTHER RACEWAYS SHALL COMPLY WITH GOVERNING CODES.
  - ALL RACEWAYS AND PIPES SPACED IN OR THRU ANY CONCRETE SLAB SHALL BE SPACED A MINIMUM OF 3 DIAMETERS OF THE LARGEST RACEWAY.
  - USE GFI CIRCUIT BREAKERS ON GFI OUTLETS.
  - INSTALLATION HEIGHTS ( ABOVE FINISHED FLOOR ) UNLESS NOTED OTHERWISE (UNO.)  
 WALL HUNG TELEPHONE + 60" AFF  
 TELEPHONE JACKS + 12" AFF  
 LIGHT SWITCHES + 48" AFF TO CENTER OF BOX (UNO.)  
 RECEPTACLES + 12" AFF  
 TELEVISION JACKS + 12" AFF
  - AS PER NEC 210-63, A 125 VOLT, SINGLE-PHASE, 15 OR 20 AMPERE RATED RECEPTACLE (WEATHER PROOF - GFI) SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT ON ROOFTOPS (AND IN ATTICS AND CRAWL SPACES). THE RECEPTACLE SHALL BE LOCATED ON THE SAME LEVEL AND WITHIN 25 FT. OF THE HEATING, AIRCONDITIONING AND REFRIGERATION EQUIPMENT. THE RECEPTACLE OUTLET SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE EQUIPMENT DISCONNECTING MEANS.
  - ALL 15 - 20 AMPS RECEPTACLES SHALL BE TAMPER - RESISTANT COMPLYING WITH N.E.C. 406 . 11



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| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|     |      |             |
|     |      |             |
|     |      |             |

**PA architect, inc.**  
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 FLORIDA LICENSE AA-26001926

**COMMERCIAL INTERIOR BUILDOUT**  
**A4S COURIER INTERNATIONAL LLC**  
**1620 NW 25th STREET**  
**BUILDING "C" UNIT # 2**  
**MIAMI FLORIDA, 33122**

CLIENT: **HERNAN LUGO**

DESIGNED BY: **PHILIP D. AGUIRRE**

DRWN: **J.J.L. - BA** START DATE: **9-11-2015**

CHKD: **P.D.A.** ISSUE DATE: **9-25-2015**

SIGN & SEAL

DATE: **PHILIP D. AGUIRRE, R.A. FL-AR0092740**

ACAD DWG: **SERVER / S/ 5/1 GROUP NC** PROJ NO: **15-46**

SHEET **E-3**











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| NO. | DATE    | REVISIONS         | DESCRIPTION |
|-----|---------|-------------------|-------------|
| 1   | 12-8-15 | PER CITY COMMENTS |             |

**P.A. architect, inc.**  
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**COMMERCIAL INTERIOR BUILDOUT**  
**A16 COURIER INTERNATIONAL, LLC**  
**7620 NW 25th STREET**  
**MIAMI, FLORIDA, 33122**

CLIENT  
**HERNAN LUIGO**

DESIGNED BY:  
**PHILIP D. AGUIRRE**

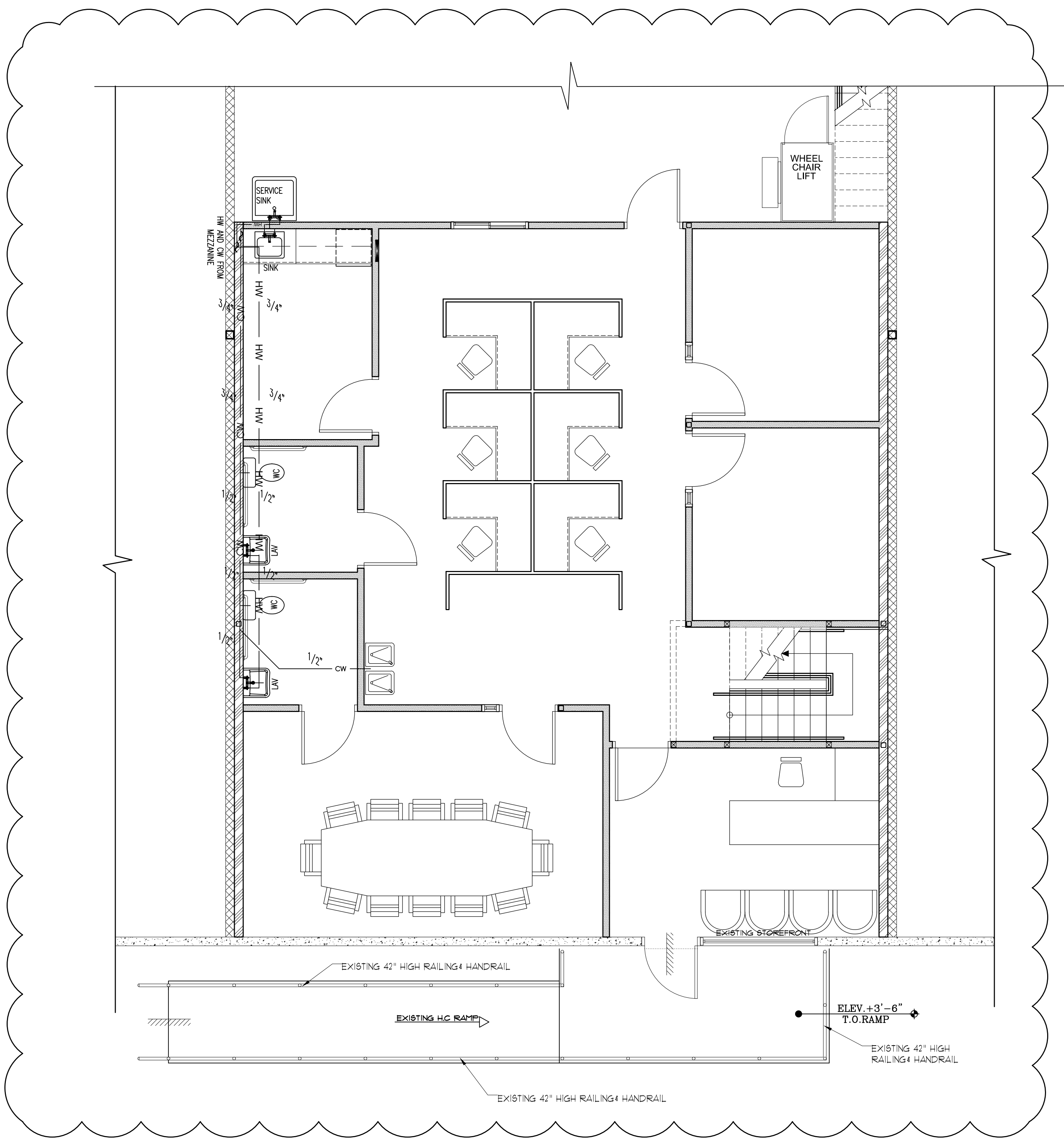
DRWN: START DATE  
**J.J.L. - B.A. 9-11-2015**

CHKD: ISSUE DATE  
**P.D.A. 9-25-2015**

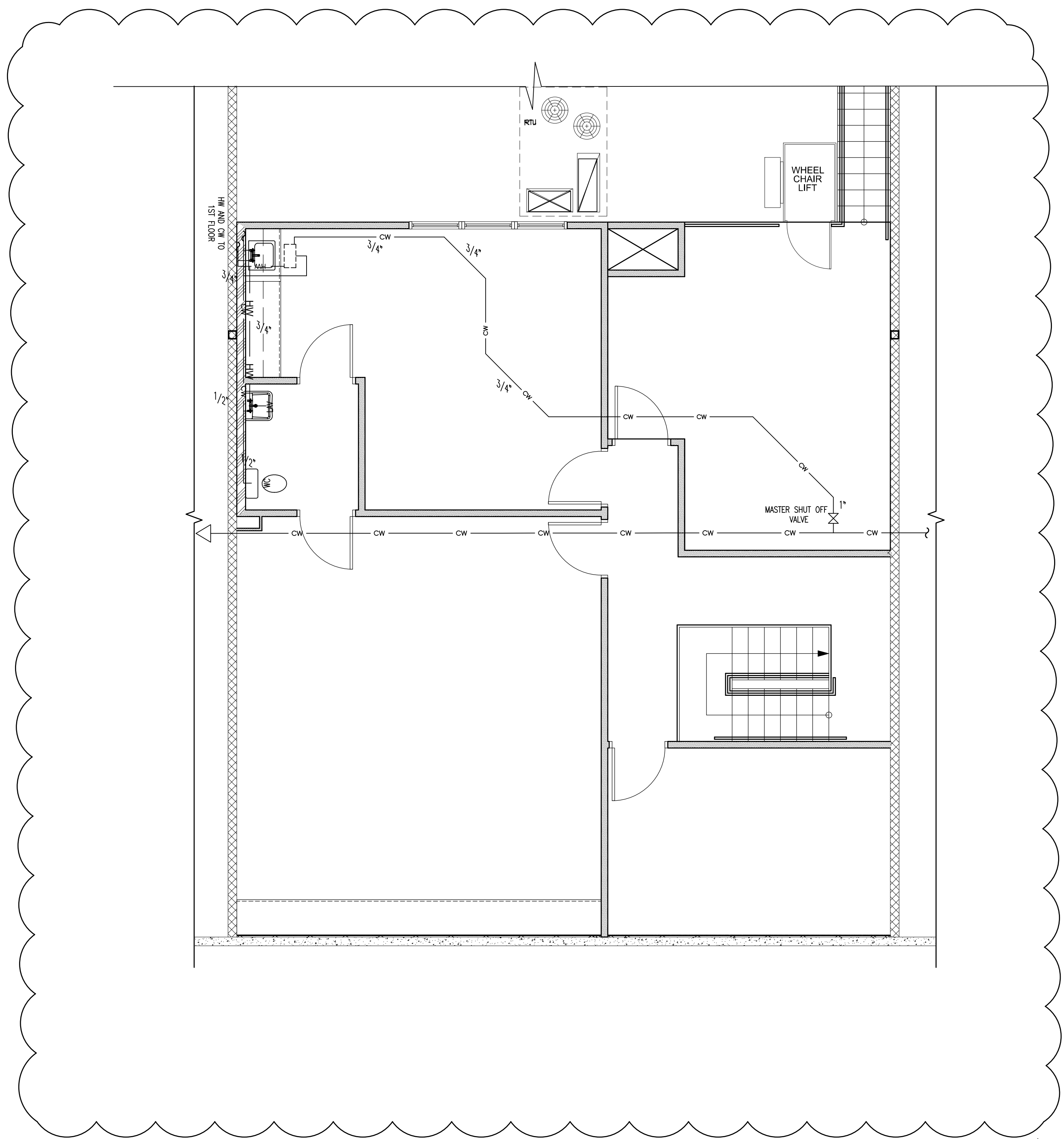
SIGN & SEAL  
 DATE:  
**PHILIP D. AGUIRRE, R.A.**  
**FL-AR0092740**

ACAD DWG PROJ NO.  
 SERVER / S. 15 - 40  
 6TH GROUP INC

SHEET  
**P-3**



**GROUND FLOOR WATER PLAN VIEW**  
 SCALE: NTS



**MEZZANINE WATER PLAN VIEW**  
 SCALE: NTS



# GENERAL NOTES

## GENERAL

- CODES: ALL DESIGN AND WORK SHALL CONFORM TO THE FLORIDA BUILDING CODE AND OTHER APPLICABLE LOCAL CODES. UNLESS OTHERWISE NOTED, ALL CODES, SPECIFICATIONS, AND TESTS REFERENCES INDICATED IN THESE DRAWINGS CORRESPOND TO THEIR LATEST EDITIONS ACCEPTED AS CURRENT AT ISSUANCE OF CONSTRUCTION PERMIT.
- DIMENSIONS AND CONDITIONS: THE GENERAL CONTRACTOR (GC) SHALL OBTAIN THE LATEST SET OF DRAWINGS, INCLUDING ANY REVISIONS BEFORE STARTING CONSTRUCTION. THE GC SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER, ARCHITECT, AND OWNERS REPRESENTATIVE (E.A.O.R.). WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED ONES AT ALL TIME. SCALE IS FOR GUIDELINE PURPOSES ONLY. IF DIMENSIONS ARE UNCLEAR, DO NOT SCALE. REQUEST CLARIFICATION FROM THE ARCHITECT OR ENGINEER.
- CONFLICTS IN PLANS: IF CONFLICTS OCCUR IN PLANS BETWEEN ARCHITECTURAL AND ENGINEERING PLANS OR OTHERWISE, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE E.A.O.R. FOR CLARIFICATION AND DIRECTION BEFORE PROCEEDING. THE GC SHALL PROCEED WORK ONLY AFTER OBTAINING WRITTEN CLARIFICATION AND APPROVAL FROM THE E.A.O.R.
- METHODS & SAFETY: THE GC SHALL BE RESPONSIBLE FOR ALL METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION, AS WELL AS THE SAFETY AND SERVICEABILITY OF THE PROJECT. THE GC SHALL TAKE PRECAUTION TO MAINTAIN SAFE ACCESS FOR ALL CONSTRUCTION AND EMERGENCY PERSONNEL AND THE PUBLIC THROUGH AREAS AFFECTED. THE GC SHALL COMPLY WITH THE SAFETY REQUIREMENTS OF ALL LOCAL, STATE, AND FEDERAL LAWS.
- LOGISTICS: THE GC SHALL BE RESPONSIBLE FOR COORDINATION OF ALL TRADES ON THE JOB WHETHER THEY ARE DIRECT OR INDIRECT OR INDEPENDENT SUBCONTRACTORS. GC SHALL FURNISH ALL LABOR, TOOLS, EQUIPMENTS, SERVICE, AND MATERIAL REQUIRED, INCLUDING DELIVERIES AND HOISTING TO COMPLETE THE WORK DESCRIBED ON THE DRAWINGS AND IN THE SPECS HEREIN REFERRED TO OR OTHERWISE APPLICABLE. WITH THE EXCEPTION OF WORK DESIGNATED N/C (NOT IN THIS CONTRACT), GC SHALL CHECK CLEARANCE OF CORRIDORS, DOORS, ETC. AND NOTIFY THE E.A.O.R. OF POTENTIAL CLEARANCE PROBLEMS FOR ARRIVING EQUIPMENTS, CABINETS, MATERIAL, AND OTHER RESTRICTIVE ITEMS, PRIOR TO THE FABRICATION OR DELIVERY OR INSTALLATION OF SAID WALLS, DOORS, AND MATERIAL. GC SHALL BE RESPONSIBLE FOR THE UNLOADING, STORAGE, AND SAFE-KEEPING OF ALL BUILDING MATERIALS UNTIL THE COMPLETION OR TERMINATION OF THE PROJECT OR HIS CONTRACT. GC SHALL PROVIDE ALL SHORING, BRACING, AND SHEATHING, AS REQUIRED FOR SAFETY AND FOR THE PROPER EXECUTION OF THE WORK AND REMOVE SAME WHEN THE WORK IS COMPLETED.
- FAMILIARITY: THE GC SHALL VISIT THE SITE AND BECOME THOROUGHLY ACQUAINTED WITH THE EXISTING CONDITIONS AND WITH THE EXTENT OF THE WORK AS PRESENTED IN THE CONTRACT DOCUMENTS PRIOR TO THE COMMENCEMENT OF THE WORK.
- PERMITS: GC SHALL BE RESPONSIBLE FOR ALL PERMITS AND FILING AS REQUIRED BY LOCAL AUTHORITIES, CODES, AND APPLICABLE REGULATIONS AND TO DISPLY AND PRESENT SAME AS AND WHEN REQUIRED.
- AREAS: THE GC SHALL BE RESPONSIBLE FOR ALL EXISTING AREAS AFFECTED BY ANY DEMOLITION AND NEW CONSTRUCTION WORK SHOWN ON THE DRAWINGS, AND TO INVESTIGATE THE SITE TO DETERMINE DEMOLITION EXTENT.
- CLEANLINESS: THE GC SHALL BE RESPONSIBLE FOR THE PERIODIC REMOVAL OF DEBRIS FROM THE WORK SITE. THERE SHALL BE NO STORAGE OF EXCESSIVE QUANTITY OF DIRT, DEBRIS, RUBBISH, OR WASTE OF ANY KIND ON THE SITE. THE GC SHALL PROVIDE ALL TEMPORARY DUSTPROOF ENCLOSURES TO KEEP THE NEIGHBORING OCCUPANTS AND ADJACENT PREMISES COMPLETELY FREE OF DUST, DEBRIS, AND ANY IMPEDIMENTS TO THE NORMAL USE OF THESE AREAS.
- FINAL CLEAN-UP: AT THE COMPLETION OF THE JOB, THE GC SHALL BE RESPONSIBLE FOR OVERALL CLEAN-UP OF THE SPACE. TOUCHING-UP MINOR DAMAGE OR ABRASIONS, AND LEAVING THE AREA READY FOR FINAL INSPECTION SPECIFICALLY INCLUDED HEREIN BUT NOT LIMITED TO ARE THE DOORS AND WINDOWS AND THEIR FULL AND PROPER FUNCTIONS OF HARDWARE, GLASS, SILLS, MULLIONS, BLINDS, AND OTHERS.
- SUBSTITUTIONS: THERE SHALL BE NO SUBSTITUTIONS OF ANY MATERIAL SPECIFIED IN THESE DRAWINGS, WHATSOEVER (INCLUDING BUT NOT LIMITED TO, BRANDS AND TYPE OF PAINT, AND MANUFACTURERS AND PRODUCT NUMBER OF HARDWARE, LIGHTING FIXTURES, OR EQUIPMENTS WITHOUT THE PRIOR WRITTEN CONSENT OF THE E.A.O.R.
- EXISTING AREA MATCHING: ANY EXISTING AREAS TEMPORARILY REMOVED OR DEMOLISHED SHALL BE PATCHED WITH THE SAME MATERIAL AS ADJACENT AREAS. ALL NEW PLASTERING OR FINISHING ON NEW AREAS SHALL MATCH EXISTING LEVEL OF EXISTING SAME AS REQUIRED IN DRAWINGS UNLESS OTHERWISE NOTED.
- TOLERANCES: THE GC SHALL PERFORM ALL NEW WORK AND SHALL PERFORM ALL NECESSARY WORK TO BRING ALL EXISTING WORK WITH THE FOLLOWING DEVIATION STANDARDS FOR PLUMB AND LEVEL:
 

|  |               |
|--|---------------|
| A. CEILING AND SOFFIT:   | 1/8" PER 20'  |
| B. OTHER BUILDING SURFACES NOT OTHERWISE DESIGNATED BUT SPECIFICALLY INCLUDING WALLS AND FLOORS: | 1/8" PER 20'  |
| C. FOR ALL FLOOR AREAS WHERE FILE CABINETS, FURNITURE, OR BUILT-INS ARE TO BE LOCATED:           | 1/16" PER 10' |

 AS MEASURED IN ANY DIRECTION BY A METAL STRAIGHT EDGE OF NOT LESS THAN TEN (10) FEET IN LENGTH.
- CONSTRUCTION LOADS: THE STRUCTURES INVOLVED HAVE BEEN DESIGNED ACCORDING TO THE LIVE AND DEAD LOADS AS LISTED UNDER THE DESIGN CRITERIA SECTION AND ACCORDING TO THE REQUIREMENTS SET FORTH BY THE PROPOSED USE OF THE STRUCTURE. THESE LOADS MAY NOT TAKE INTO ACCOUNT ANY AND ALL CONSTRUCTION LOADS WHICH MAY BE SUPERIMPOSED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LOADS OF THE STRUCTURE, AND THAT PROPER PLACEMENT OF MATERIALS AND FORMING AND SHORING TECHNIQUES ARE UTILIZED TO ASSURE PROPER AND SAFE DISTRIBUTION OF LOADS THROUGHOUT THE STRUCTURE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EMPLOY THE NECESSARY PROFESSIONAL SERVICES TO DETERMINE THE NECESSARY METHODS AND SUPPORTS REGARDING FORMING AND CONSTRUCTION LOADS.
- SHOP DRAWINGS:
  - PRIOR TO FABRICATION OF ANY ITEMS, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR REVIEW BY THE ENGINEER COMPLETE SHOP DRAWINGS DETAILING CONCRETE REINFORCING STEEL, PRECAST AND PRESTRESSED CONCRETE UNITS, STRUCTURAL AND MISCELLANEOUS STEEL, WOOD ROOF TRUSSES, AND ANY OTHER ITEMS OF CONSTRUCTION REQUIRING OFFSITE FABRICATION.
  - REVIEW AND APPROVAL OF SHOP DRAWINGS IS FOR CONFORMANCE TO THE DESIGN CONCEPT AND LAYOUT ONLY. THE CONTRACTOR SHALL CHECK AND APPROVE THE SHOP DRAWINGS FIRST FOR COMPLIANCE AND COMPLETENESS BEFORE SUBMITTAL. APPROVAL BY THE ENGINEER IS NOT FOR THE PURPOSE OF APPROVING CHANGES OR SUBSTITUTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS, QUANTITIES, JOB CONDITIONS, AND COORDINATION WITH ALL PLANS AND OTHER TRADES.
- OPENINGS IN SLABS, FLOORS, AND ROOFS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED OPENINGS IN SLABS, FLOORS, AND ROOFS OR OTHER STRUCTURAL ELEMENTS. A PLAN OF ALL SUCH OPENINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION OF SUCH
- OWNER-BUILDER: WHEN NO GC IS HIRED AND OWNER SUPERVISES AND HANDLES CONTRACTING AND SUPERVISES SUBCONTRACTORS, THE TERM GC SHALL BE REPLACED BY "ANY AND ALL CONTRACTORS": THIS SHALL NOT RELIEVE THE OWNERS FROM FOLLOWING APPLICABLE REGULATIONS.

## DESIGN CRITERIA

- WIND LOAD DESIGN:
- ALL STRUCTURAL ELEMENTS EXPOSED TO WIND, HAVE BEEN DESIGNED PER THE GUIDELINES OF THE ASCE 7-10 BUILDING CODE WITH THE FOLLOWING DESIGN VALUES.

| COUNTY      | WIND SPEED | GUST   | EXPOSURE | RISK CATEGORY |
|-------------|------------|--------|----------|---------------|
| DADE COUNTY | 176 MPH    | 3 SEC. | C        | II            |

## SOIL, FOOTINGS, SLABS ON GRADE

- SOIL INVESTIGATION: SOIL BORINGS SHALL BE TAKEN AT THE JOBSITE PRIOR TO START OF CONSTRUCTION BY A RECOGNIZED SOIL TESTING LABORATORY. LOCATIONS AND NUMBER OF SUCH BORINGS SHALL BE AS DELEGATED BY THE ENGINEER. AN ANALYSIS OF THE BORINGS SHALL BE MADE BY A REGISTERED FLORIDA PROFESSIONAL ENGINEER EXPERIENCED IN SOILS ENGINEERING, AND AN OPINION IN WRITING SHALL BE RENDERED BY SUCH ENGINEER AS TO THE RESULTS OF SUCH ANALYSIS. THE OPINION SHALL BE SPECIFIC IN DETERMINING TYPES OF FOOTINGS TO BE UTILIZED, SAFE BEARING CAPACITY TO BE UTILIZED, SOIL PREPARATION NECESSARY PRIOR TO CONSTRUCTION FOR FOOTINGS, SLABS, AND PARKING AREAS, AND THE NEED FOR PILING OR OTHER POSITIVE MEANS OF SUPPORT, IF NECESSARY. THE COST OF SUCH BORINGS AND ANALYSIS SHALL BE PAID FOR BY THE OWNER/DEVELOPER.

- SOIL CAPACITY REQUIREMENTS: FOUNDATIONS HAVE BEEN DESIGNED FOR A SAFE SOIL BEARING CAPACITY OF 2,500 PSF. THIS CONDITION SHALL BE VERIFIED BY THE ABOVE REFERENCED SOIL INVESTIGATION PRIOR TO START OF CONSTRUCTION. IF ANY DISCREPANCY EXISTS BETWEEN ASSUMED AND ACTUAL BEARING CAPACITIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR FURTHER DIRECTION PRIOR TO PROCEEDING.
- SITE PREPARATION: ALL VEGETATION, DEBRIS, AND ORGANIC MATERIAL SHALL BE REMOVED FROM THE CONSTRUCTION SITE TO AT LEAST FIVE (5) FEET OUTSIDE THE PERIMETER OF ANY BUILDINGS, STRUCTURES, WALKS, OR SLABS. ALL FILL UTILIZED UNDER SLABS, FOOTERS, WALKS, OR OTHER STRUCTURES SHALL BE CLEAN SAND FREE FROM ORGANICS, DEBRIS, OR OTHER DELTERIOUS MATERIALS.
- COMPACTION: SURFACE OF NATURAL SOIL SHALL BE COMPACTED USING A HEAVY SELF PROPELLED, HIGH FREQUENCY VIBRATORY ROLLER OR PLATE WITH NO LESS THAN TEN (10) PASSES OVER THE WHOLE SLAB AREA PRIOR TO APPLICATION OF FILL. SUCH FILL SHALL BE BROUGHT IN AND SHALL BE PLACED AND COMPACTED IN 12 INCH LIFTS TO A MINIMUM OF 98 PER CENT DENSITY WITH A MINIMUM OF 4 PASSES, AND COMPACTION SHALL BE VERIFIED BY FIELD TESTS BY A RECOGNIZED SOIL TESTING LABORATORY. ALL RECOMMENDATIONS SET FORTH AS A RESULT OF THE SOIL INVESTIGATION SECTION OF THESE SPECIFICATIONS SHALL BE ACCURATELY FOLLOWED, PARTICULARLY IF THEY ARE MORE RESTRICTIVE THAN THOSE SET FORTH IN THIS SECTION. A CERTIFIED TESTING LABORATORY ACCEPTABLE TO THE ARCHITECT AND ENGINEER SHALL BE EMPLOYED TO VERIFY THAT SUCH WORK HAS BEEN COMPLETED PRIOR TO THE START OF FOUNDATIONS.
- CERTIFICATION OF SOIL PREPARATION: AFTER COMPLETION OF COMPACTION AND PREPARATION OF SOIL, A WRITTEN AND SEALED CERTIFICATION FROM THE TESTING LABORATORY AND THEIR ENGINEER, INDICATING COMPLIANCE WITH THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS AND THE BEARING CAPACITY REQUIREMENTS OF THE PLANS, SHALL BE TRANSMITTED TO THE ARCHITECT AND ENGINEER PRIOR TO THE POURING OF ANY CONCRETE INTO FOUNDATIONS OR SLABS.
- VARIATIONS IN SITE CONDITIONS: IF ANY VARIATION IN SITE CONDITIONS DIFFERENT FROM THOSE PREDICTED IN THE SOIL INVESTIGATION AND REPORT BY THE SOIL LABORATORY OR ENGINEER ARE ENCOUNTERED IN THE FIELD, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY PRIOR TO PROCEEDING FOR FURTHER DIRECTION. A REASONABLE TIME SHALL BE ALLOWED FOR THE ANALYSIS OF THE FIELD CONDITIONS AND DETERMINATION OF ACTION TO TAKE.
- FORMING: ALL FOUNDATIONS, INCLUDING ISOLATED PADS OR WALL FOOTINGS, SHALL BE FORMED WITH WOOD OR SIMILAR FORMS. CONCRETE SHALL NOT BE PLACED INTO OPEN EXCAVATIONS WITHOUT FORMS. UNLESS SPECIFICALLY NOTED OTHERWISE, SIDE FORMS SHALL BE STRAIGHT, FORMED AT RIGHT ANGLES WITH THE EXCAVATION BOTTOM, AND PROPERLY BRACED TO PREVENT LATERAL DISPLACEMENT DURING

- PLACING AND FINISHING OF SLABS SHALL CONFORM TO REQUIREMENTS OF ACI 318, ACI 301, AND "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (ACI 302.1R) AND SHALL BE FINISHED WITH A CLASS B TOLERANCE UNLESS OTHERWISE REQUIRED BY THE ARCHITECT.
- CONTROL JOINTS SHALL BE PLACED IN SLABS ON GRADE IN LOCATIONS AS NOTED ON THE PLANS. CONTROL JOINTS SHALL BE EITHER SAWCUT JOINTS CUT TO A DEPTH OF 25% MIN. OF THE SLAB THICKNESS AND CUT WITHIN 12 HOURS OF POURING OF THE SLAB, OR BUTT TYPE CONSTRUCTION JOINTS. JOINTS SHALL BE OF THE BUTT TYPE CONSTRUCTION TYPE WHERE SAW CUTTING CANNOT BE CONTINUOUS AND WHERE SLABS ARE CONTINUOUS THROUGH DOOR OPENINGS. SLAB REINFORCEMENT SHALL NOT CONTINUE THROUGH CONSTRUCTION JOINTS.

- AT ALL MASONRY DOOR OPENINGS PROVIDE A THICKENED SLAB EDGE OF MINIMUM DIMENSION OF 8" X 8" WITH ONE NUMBER 5 REINFORCING BAR PLACED THEREIN UNLESS OTHERWISE NOTED.

- PLACING OF CONCRETE. THE BOTTOM OF ALL FOUNDATIONS SHALL BE FREE OF UNNECESSARY UNDULATIONS. THE CONTRACTOR SHALL EXERCISE DUE CAUTION SO AS NOT TO DISTURB SOILS WHICH HAVE BEEN DENSIFIED. ALL FORMS SHALL BE COMPLETELY REMOVED AFTER PLACING OF CONCRETE AND CURING HAS BEEN COMPLETED.

- SLABS AND FLOORS ON GRADE:
  - UNLESS NOTED OTHERWISE, ALL CONCRETE SLABS ON GRADE SHALL BE A MINIMUM OF FOUR (4) INCHES THICK AND REINFORCED WITH ONE (1) LAYER OF 6X6 - W14W1.4 W.W.M. PLACED AT MID-DEPTH IN THE CONCRETE. WIRE MESH SHALL BE ADEQUATELY SUPPORTED PRIOR TO AND DURING THE PLACING OF CONCRETE.
  - POUR SLAB IN CHECKERBOARD PATTERNS, NO PANEL EXCEEDING 20 FEET IN LENGTH, OR 400 SQFT OF AREA, OR USE CONTROL JOINTS.
- VAPOR BARRIER: A VAPOR BARRIER OF 6 MIL. VISQUEEN (OR EQUAL) SHALL BE USED UNDER ALL CONCRETE SLABS ON GRADE.
- TERMITE TREATMENT: SOIL POISONING SHALL BE APPLIED TO ALL AREAS UNDER THE GROUND FLOOR OF ALL BUILDINGS PRIOR TO THE POURING OF THE SLABS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ARCHITECT AND THE LOCAL BUILDING CODE AND GOVERNING AUTHORITY. THIS REQUIREMENT ALSO APPLIES TO AREAS WITH GROUND FLOORS MADE OF WOOD OR OTHER MATERIALS AND UP TO 4'-0" MIN. BEYOND ALL FOOTING AND SLAB EDGES.

## REINFORCED CONCRETE

- STANDARDS: ALL CONCRETE MATERIAL, AS WELL AS MIXING, CONVEYING, PLACING, AND FINISHING OF CONCRETE, SHALL CONFORM TO THE FOLLOWING STANDARDS:
  - ACI 318: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
  - ACI 301: "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
  - ACI SP-15 - "FIELD REFERENCE MANUAL: SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS WITH SELECTED ACI AND ASTM REFERENCES". THE CONTRACTOR SHALL HAVE A COPY OF THIS PUBLICATION AT THE JOBSITE AT ALL TIMES FOR REFERENCE.
- CONCRETE STRENGTH: CONCRETE SHALL BE NORMAL WEIGHT AND SHALL ATTAIN A 28 DAY COMpressive STRENGTH OF F'c = 3,000 PSI AT ALL STRUCTURAL COMPONENTS UNLESS OTHERWISE NOTED. 2500 PSI CONCRETE SHALL BE PERMITTED FOR EXTERIOR WALKS.
- MIXES: ALL CONCRETE MIXES SHALL BE DESIGNED BY THE SUPPLIER TO MEET THE REQUIREMENTS SET FORTH HEREIN, AS WELL AS THE SPECIFIC CONDITIONS OF THIS JOB. MIX DESIGNS, PREPARED BY AND CERTIFIED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO PLACING OF ANY CONCRETE. MIXES SHALL BE DESIGNED ACCORDING TO ACI 318 AND ACI 301 USING NOT LESS THAN 470 POUNDS (5 BAGS) OF CEMENT PER CUBIC YARD. FLYASH SHALL NOT BE USED AS A REPLACEMENT FOR CEMENT.
- TESTS ON CONCRETE: CONCRETE CYLINDER TESTS SHALL BE MADE ON EACH 50 CUBIC YARDS OF CONCRETE IN ACCORDANCE WITH THE REQUIREMENTS OF THE F.B.C., TESTS ON CONCRETE, AND ACI 301. ALL STRENGTHS SPECIFIED SHALL BE MINIMUM IN 28 DAYS. FIVE (5) CYLINDER SAMPLES SHALL BE TAKEN FOR EACH TEST UNIT. ONE CYLINDER SHALL BE BROKEN AT 3 DAYS, ONE CYLINDER SHALL BE BROKEN AT 7 DAYS, AND THE REMAINING THREE AT 28 DAYS. TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH APPROPRIATE ASTM METHODS AND PROCEDURES. WRITTEN AND CERTIFIED RESULTS OF ALL TESTS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW BY THE ENGINEER OF RECORD. TESTING SHALL BE PERFORMED BY A RECOGNIZED TESTING LABORATORY AND SHALL BE SUPERVISED AND CERTIFIED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.
- MIXING AND PLACING: NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOBSITE EXCEPT UNDER THE CONTROL OF A REGISTERED PROFESSIONAL ENGINEER EMPLOYED BY THE CONCRETE SUPPLIER. NO CONCRETE SHALL BE DEPOSITED IN FORMS MORE THAN 1 AND 1/2 HOUR (1.5) AFTER THE MIXING OF THAT PARTICULAR BATCH HAS COMMENCED. PLACING OF CONCRETE SHALL CONFORM TO ACI AND ASTM STANDARDS.
- SLUMP: UNLESS NOTED OR APPROVED OTHERWISE, THE MAXIMUM SLUMP ALLOWABLE FOR CONCRETE SHALL BE FOUR (4) INCHES AT THE POINT OF PLACEMENT. A TOLERANCE OF PLUS OR MINUS ONE (1) INCH WILL BE ACCEPTED TO ALLOW FOR MIXING AND TRANSPORTATION. CONTROL OF SLUMP IS THE RESPONSIBILITY OF THE CONTRACTOR AND SUPPLIER.
- VIBRATION: ALL CAST IN PLACE CONCRETE SHALL BE CONSOLIDATED BY MEANS OF MECHANICAL VIBRATORS, UNLESS OTHER MEANS ARE APPROVED AS SUFFICIENT.
- FINISHING: FINISHING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301.
- CURING: BEGINNING IMMEDIATELY AFTER PLACEMENT, CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY, AND SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT A RELATIVELY CONSTANT TEMPERATURE FOR THE PERIOD NECESSARY FOR HYDRATION OF THE CEMENT AND HARDENING OF THE CONCRETE. THE MATERIALS AND METHODS OF CURING SHALL BE SUBJECT TO APPROVAL OF THE ARCHITECT AND SHALL CONFORM TO ACI 301.
- STRIPPING OF FORMS: ALL BOTTOM FORMS SHALL BE LEFT IN PLACE FOR AT LEAST 14 DAYS AFTER PLACING OF CONCRETE, OR UNTIL THE CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO ADEQUATELY SUPPORT ALL DESIGN LOADS, WHICHEVER IS LONGER AND SHALL CONFORM TO ACI 347.

## REINFORCING STEEL

- STANDARDS: REINFORCING STEEL SHALL BE DEFORMED BARS AND ITS PLACING SHALL CONFORM TO THE FOLLOWING STANDARDS:
  - ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
  - CRSI "PLACING REINFORCING BARS - RECOMMENDED PRACTICES"
- STRENGTH: ALL CONVENTIONAL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI AND SHALL CONFORM TO ASTM DESIGNATION A-615 GRADE 60.
- WWF: WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
- DETAILING: REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI SP-06 "ACI DETAILING MANUAL".
- SPICES:

- IN FLEXURAL MEMBERS, TOP REINFORCING BARS SHALL BE SPLICED IN THE MIDDLE 1/3 SPAN, AND BOTTOM REINFORCING BARS SHALL BE SPLICED AT OR NEAR THE COLUMNS OR SUPPORTS.
- UNLESS OTHERWISE NOTED ON THE PLANS, LAP SPICE LENGTHS SHALL BE AS FOLLOWS:

|                              |                  |
|------------------------------|------------------|
| TOP & BOTTOM REINF. IN SLABS | 45 BAR DIAMETERS |
| FOOTINGS                     | 36 BAR DIAMETERS |

IN NO CASE SHALL THE SPLICE LENGTH BE LESS THAN 12 INCHES.

- COVER: UNLESS NOTED OTHERWISE, CLEAR CONCRETE COVER SHALL BE AS FOLLOWS:

|  |        |
|--|--------|
| CONCRETE PLACED DIRECTLY IN CONTACT WITH GROUND          | 3"     |
| CONCRETE EXPOSED TO WEATHER OR GROUND AFTER FORM REMOVAL | 1-1/2" |
| #5 BARS OR SMALLER                                       | 1-1/2" |
| ALL OTHER BARS   | 2"     |
| CONCRETE NOT EXPOSED TO WEATHER OR GROUND:               |        |
| SLABS, JOISTS, WALLS                                     | 3/4"   |

## STRUCTURAL STEEL

- STANDARDS: ALL STRUCTURAL STEEL AND ERECTION THEREOF SHALL CONFORM TO THE FOLLOWING STANDARDS:
    - AISC "MANUAL OF STEEL CONSTRUCTION", INCLUDING "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
  - LOADS: FOR LOAD REQUIREMENTS FOR STEEL STRUCTURAL ELEMENTS, SEE SECTION OF THESE NOTES ENTITLED "DESIGN CRITERIA".
  - STRUCTURAL SHAPES: ALL STRUCTURAL STEEL HOT ROLLED SHAPES AND PLATES SHALL BE ASTM A36 WITH A MINIMUM YIELD STRESS OF 36 KSI. ALL STEEL SHALL CONFORM TO AISC STANDARDS AND SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL.
  - TUBES: ALL STRUCTURAL STEEL TUBES SHALL BE ASTM A500, GRADE B WITH A MINIMUM YIELD STRESS OF 46 KSI.
  - PIPE: ALL STEEL PIPE SHALL BE ASTM A53 GRADE B, TYPE S WITH A MINIMUM YIELD STRESS OF 35 KSI OR ASTM A501 WITH A MINIMUM YIELD STRESS OF 36 KSI.
  - CONCRETE FILLING: ALL STEEL PIPE AND TUBES SHALL BE COMPLETELY FILLED WITH CONCRETE OF F'c = 2,500 PSI. PIPE AND TUBES SHALL HAVE 1/4 INCH DIAMETER PRESSURE RELIEF HOLES DRILLED THROUGH THE SHELL, ONE WITHIN 6 INCHES OF THE TOP, ONE WITHIN 6 INCHES OF THE BOTTOM, AND ONE HOLE AT MID HEIGHT. ALL HOLES SHALL BE EXPOSED.
  - BOLTS: ALL BOLTS SHALL CONFORM TO "SPECIFICATIONS FOR LOW CARBON STEEL EXTERNALLY AND INTERNALLY THREADED STANDARD FASTENERS" ASTM A307 OR "HIGH STRENGTH BOLTS FOR STRUCTURAL STEEL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS" ASTM A325. SEE PLANS FOR DESIGNATIONS AND LOCATIONS. ALL BOLTS SHALL BE A325 UNLESS SPECIFICALLY NOTED OTHERWISE.
  - WELDS: ALL WELDS SHALL CONFORM TO AWS STANDARDS AND SHALL BE MADE BY CURRENTLY CERTIFIED WELDERS. ALL ELECTRODES SHALL BE 70XX. ALL WELDS, INCLUDING STEEL DECK WELDS, SHALL BE WIRE BRUSHED AND PAINTED. JOISTS SHALL NOT BE FABRICATED USING ELECTRICAL RESISTANCE WELDING.
  - ROOF OPENINGS: STEEL CONTRACTOR SHALL SUPPLY AND INSTALL ALL ROOF OPENINGS. EXACT SIZES AND LOCATIONS SHALL BE COORDINATED BY THE ARCHITECT, MECHANICAL ENGINEER, GENERAL CONTRACTOR, STEEL CONTRACTOR, AND TRADE AFFECTED BY THE OPENING TO AVOID CONFLICT WITH STRUCTURAL MEMBERS. SEE ARCHITECTURAL AND MECHANICAL ENGINEERING PLANS FOR OPENING SIZES AND LOCATIONS. ROOF OPENINGS SHALL BE CLEARLY DETAILED AND INDICATED ON THE STRUCTURAL STEEL SHOP DRAWINGS. ALL COORDINATION SHALL BE ACCOMPLISHED PRIOR TO FABRICATION OF ANY STRUCTURAL STEEL. ANY CONFLICTS WITH STRUCTURAL MEMBERS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER.
  - SHOP PAINTING: ALL STEEL SHALL BE SHOP PAINTED PRIOR TO DELIVERY TO THE JOBSITE WITH AN APPROVED WEATHER AND RUST RESISTANT PAINT WITH A 1 MIL. MINIMUM THICKNESS ACCORDING TO AISC STANDARDS. EMBED ANCHORS AND SURFACES OF STEEL TO BE EMBEDDED INTO CONCRETE SHALL NOT BE PAINTED, HOWEVER, EXPOSED SURFACES OF SUCH EMBEDS SHALL BE PAINTED. ALL STEEL SHALL BE SUBSTANTIALLY FREE FROM RUST WHEN DELIVERED TO THE JOBSITE.
  - SHOP DRAWINGS: PRIOR TO FABRICATION AND CONSTRUCTION, THE STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR ALL RELATED WORK TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL. ALL DETAILS OF STEEL ELEMENTS AND CONNECTIONS SHALL BE PART OF THIS SUBMITTAL. ALL MATERIALS AND DESIGNATIONS SHALL BE CLEARLY INDICATED. THE FABRICATOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE DESIGN AS SET FORTH ON THE PLANS AND MAINTAINING FABRICATION AND ERECTION TOLERANCES AND FOR ENSURING THE FIT AND ERECTABILITY OF THE STRUCTURE. ANY MODIFICATIONS OF STRUCTURAL CONNECTIONS SHALL BE CLEARLY MARKED AS BEING MODIFIED AND SHALL BE SUBJECT TO REVIEW BY THE ENGINEER OF RECORD PRIOR TO FABRICATION. STRUCTURAL SUBMITTALS REQUIRING ENGINEERING INPUT SUCH AS THOSE DEALING WITH SUBSTITUTE CONNECTIONS SHALL BE ACCOMPANIED BY DESIGN CALCULATIONS PREPARED BY, AND SHALL BEAR THE IMPRESS SEAL AND SIGNATURE OF, A STATE OF FLORIDA REGISTERED "DELEGATED ENGINEER" AND SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH BY THE STATE OF FLORIDA DEPARTMENT OF PROFESSIONAL REGULATION BOARD OF PROFESSIONAL ENGINEERS RELATING TO "DELEGATED ENGINEERS".
  - CONNECTIONS: ALL BEAM AND COLUMN CONNECTIONS, INCLUDING SPLICES, SHALL BE DETAILED AND CLEARLY INDICATED ON THE SHOP DRAWINGS. ALL CONNECTIONS SHALL BE DESIGNED FOR THE MAXIMUM LOAD CAPACITY OF THE MEMBERS CONNECTED UNLESS SPECIFICALLY NOTED ON THE PLANS OTHERWISE.
  - COLUMN PLATES: ALL COLUMN TOP AND BOTTOM PLATES SHALL BE DETAILED BY THE FABRICATOR AND CLEARLY INDICATED ON THE SHOP DRAWINGS.
- WOOD NOTES
  - WOOD IN CONTACT WITH CONCRETE: ALL WOOD COMING IN CONTACT WITH CONCRETE SHALL BE TREATED WITH AN APPROVED PRESERVATIVE METHOD OR OTHERWISE MECHANICALLY ISOLATED.
  - ANCHORAGE: EACH ROOF JOIST, RAFTER, BEAM, OR TRUSS SHALL BE ANCHORED TO THE SUPPORT TO RESIST UPLIFT WITH AN APPROVED ANCHORING DEVICE.
  - FIBER STRESS: ALL WOOD USED SHALL HAVE A MINIMUM ALLOWABLE EXTREME FIBER STRESS IN BENDING OF 1,000 PSI.
  - METAL ELEMENTS: ALL METAL ELEMENTS SHALL BE GALVANIZED. ALL BOLTS, LAGS, NUTS, WASHERS, ETC. SHALL BE DOUBLE-DIPPED HOT GALVANIZED. ALL BOLTS SHALL BE PROVIDED WITH WASHERS AT BOTH ENDS.
  - GRADE: LUMBER FOR BEARING WALL SHALL BE STUD GRADE OR BETTER. LUMBER FOR NON-BEARING WALLS SHALL BE ACCEPTABLE AS UTILITY GRADE OR BETTER.
  - MOISTURE: ALL LUMBER INCORPORATED IN THE STRUCTURE SHALL BE KILN OR AIR DRIED TO 19% MOISTURE CONTENT.

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DRWN: **JUL - BA** | START DATE: **9-11-2015**

CHKD: **P.D.A.** | ISSUE DATE: **9-25-2015**

SIGN & SEAL

DATE: **PHILIP D. AGUIRRE, R.A.**  
**FL-AR092740**

ACAD DWG: **SERVER / 8 / 811 GROUP** | PROJ NO: **15-46**

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