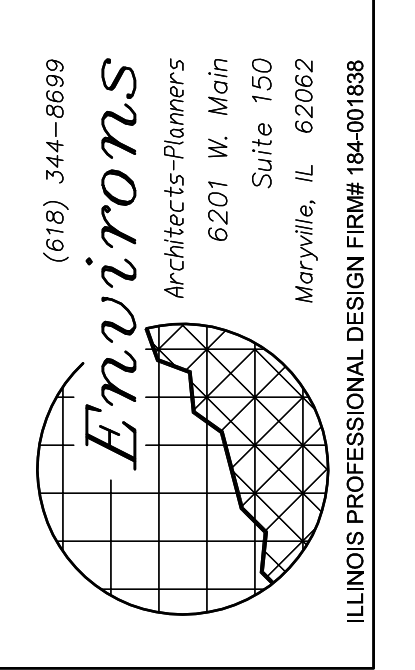
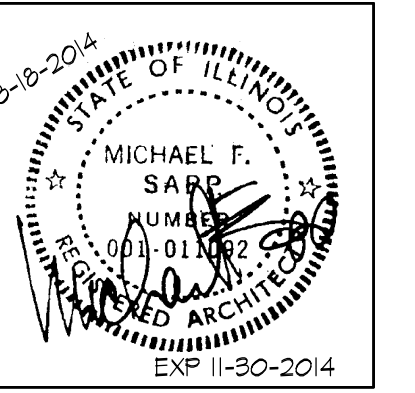


LOWER LEVEL PARKING PLAN  
 SCALE: 1/8"=1'-0"



JOB NO.  
 13022

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 1 FEBRUARY 20, 2014 PERMIT REVIEW  
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 2 AUGUST 18, 2014 PERMIT REVIEW

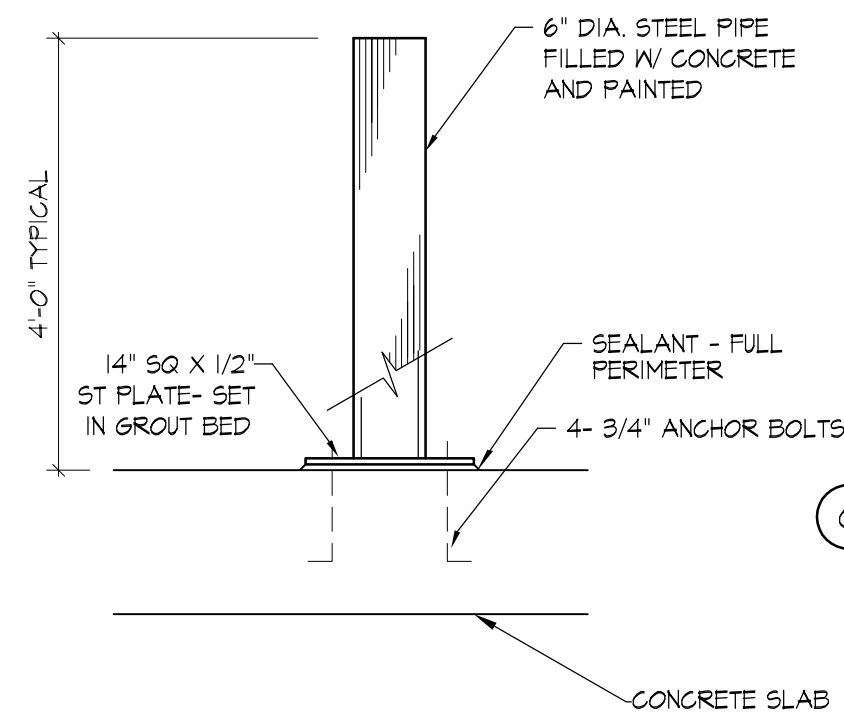


A NEW APARTMENT BUILDING 'C':  
**CARDINAL SQUARE APARTMENTS**  
 MCKINLEY + ANTHONY AVE. MUNDELEIN, ILLINOIS

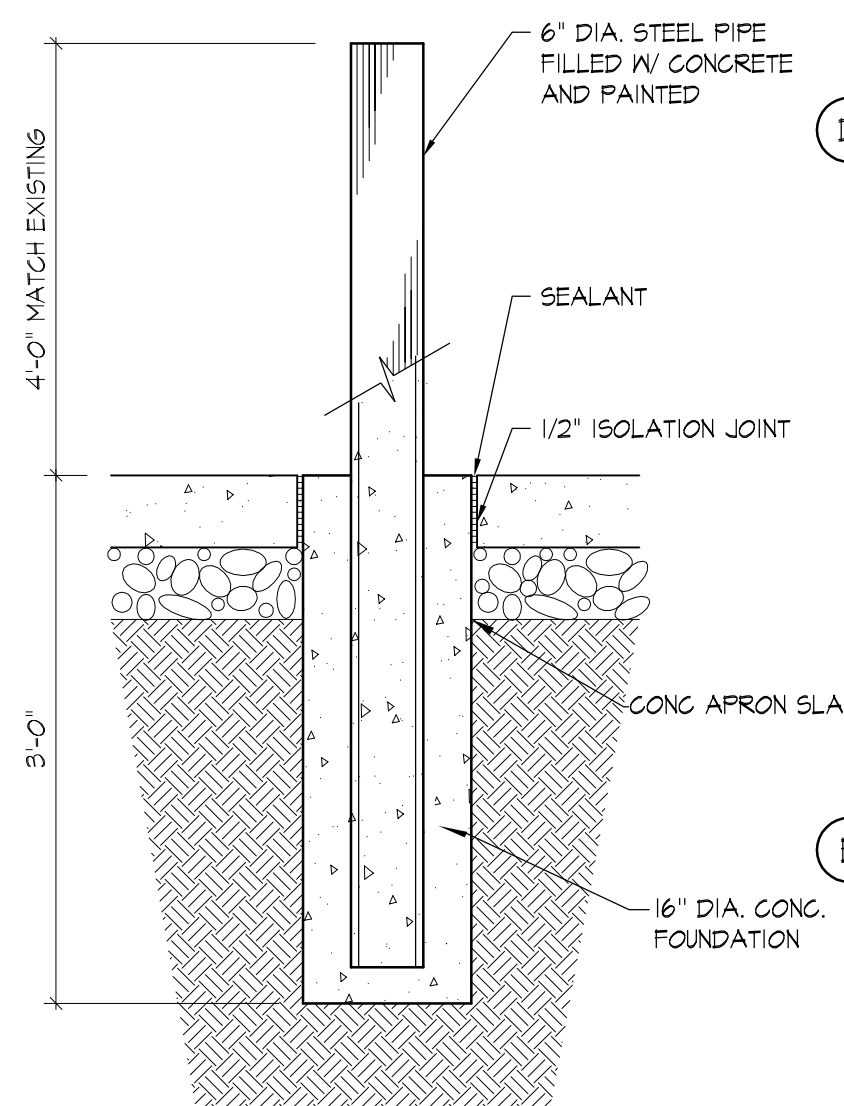
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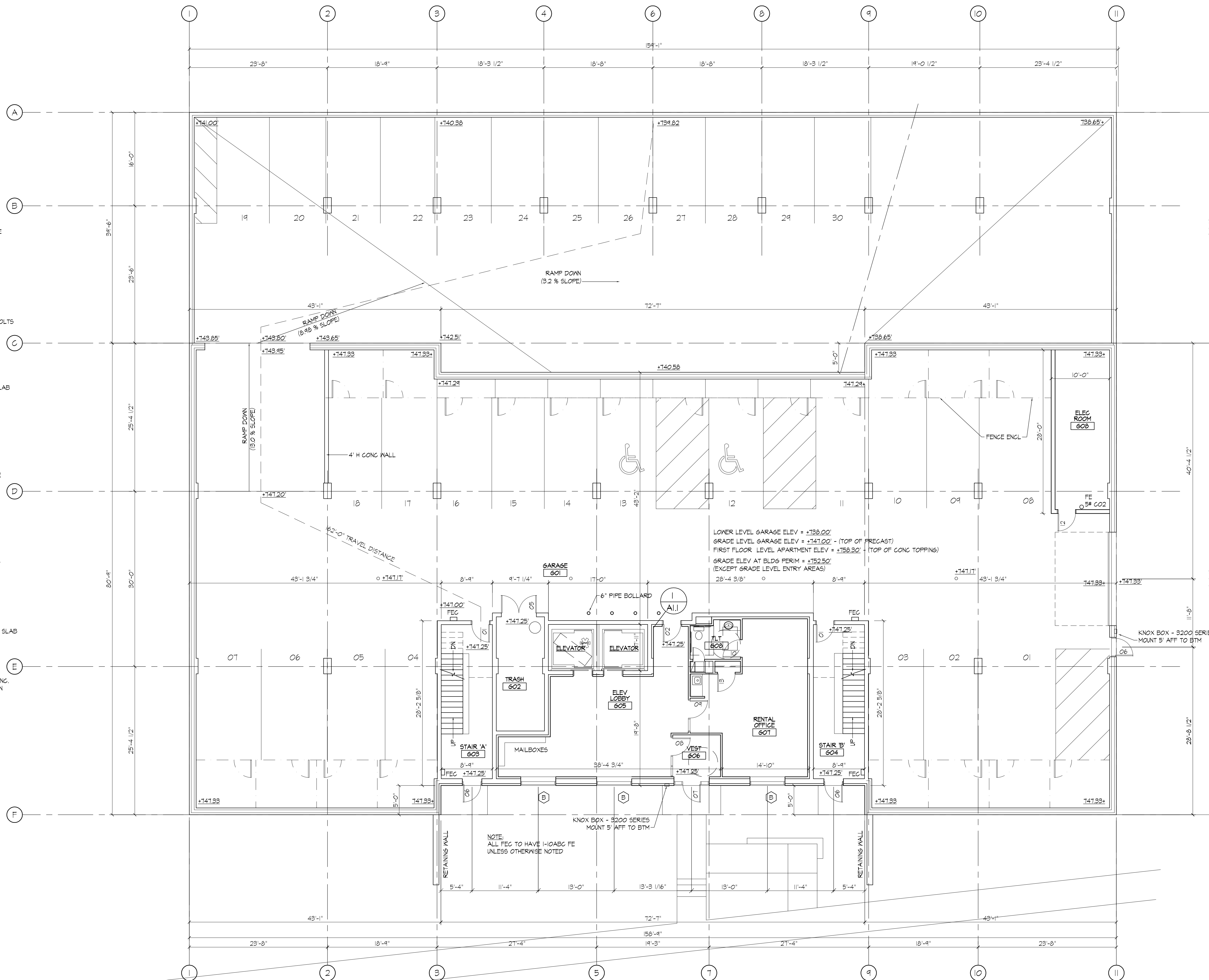
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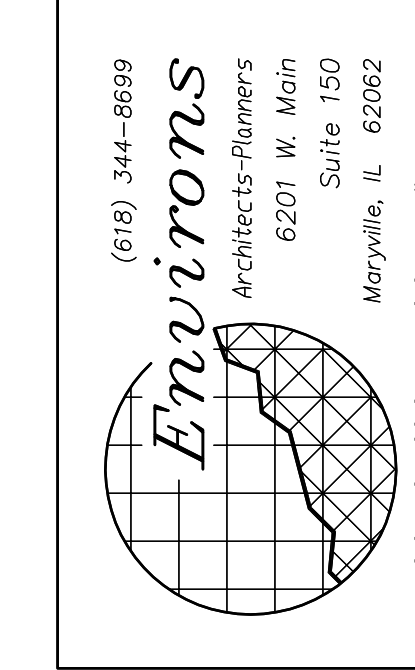
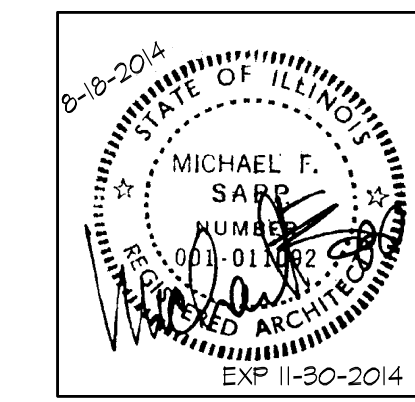
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SCALE: 3/4"=1'-0"



**2** DETAIL - BOLLARD  
SCALE: 3/4"=1'-0"



**GROUND LEVEL PARKING PLAN**  
SCALE: 1/8"=1'-0"



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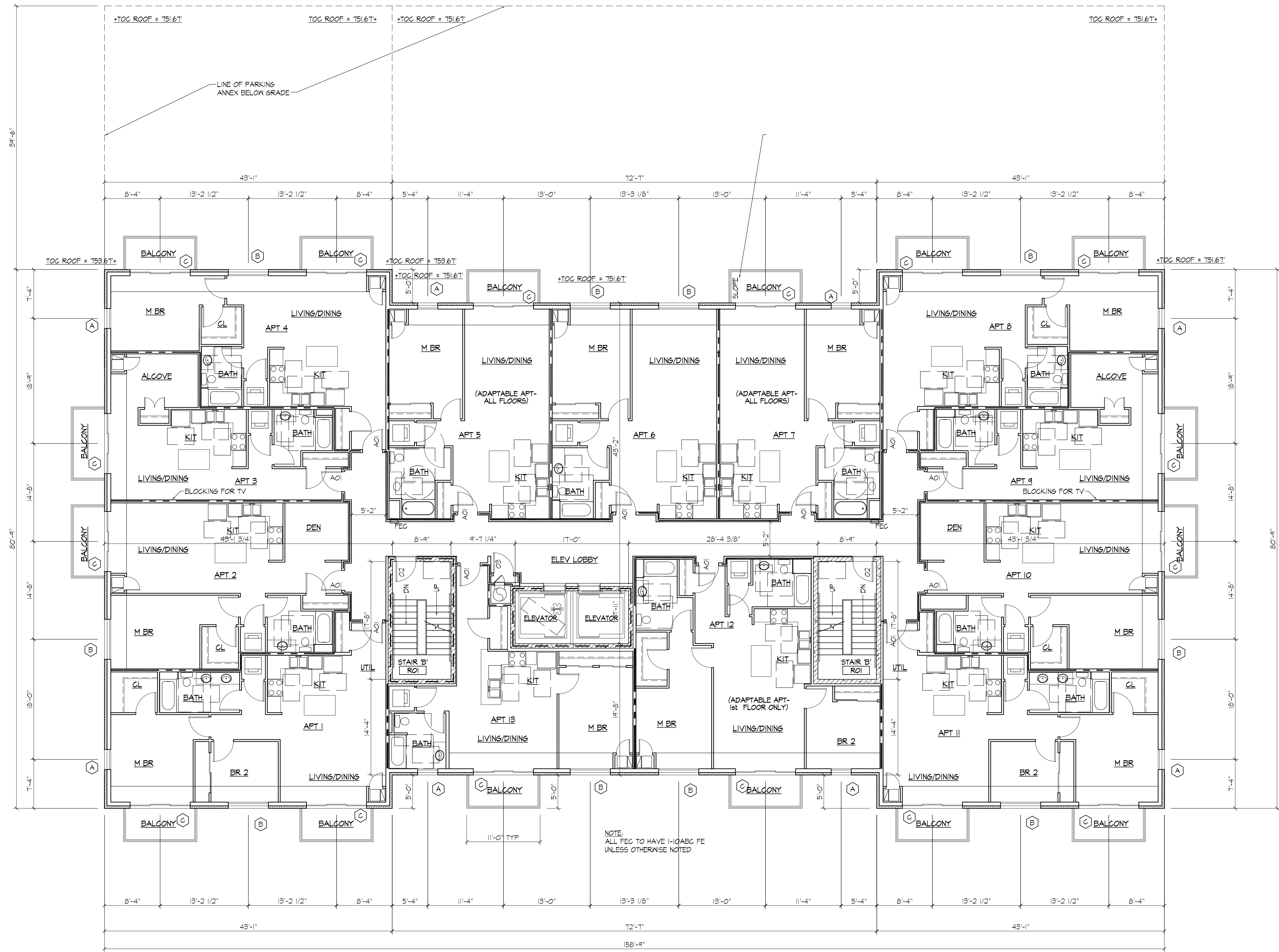
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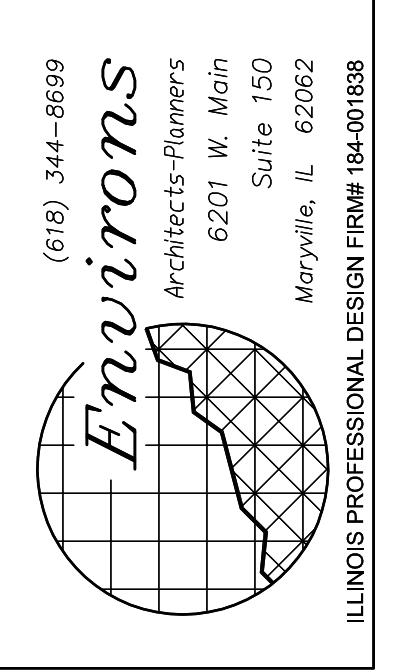
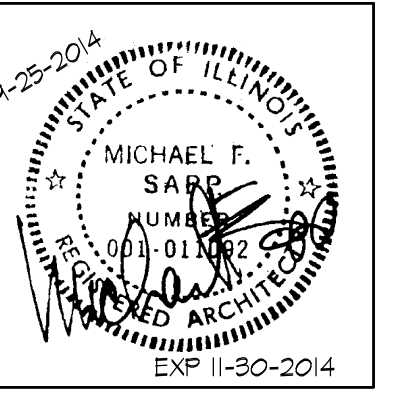
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FIRST FLOOR PLAN  
SCALE: 1/8"=1'-0" APPROX. 12,043 SF



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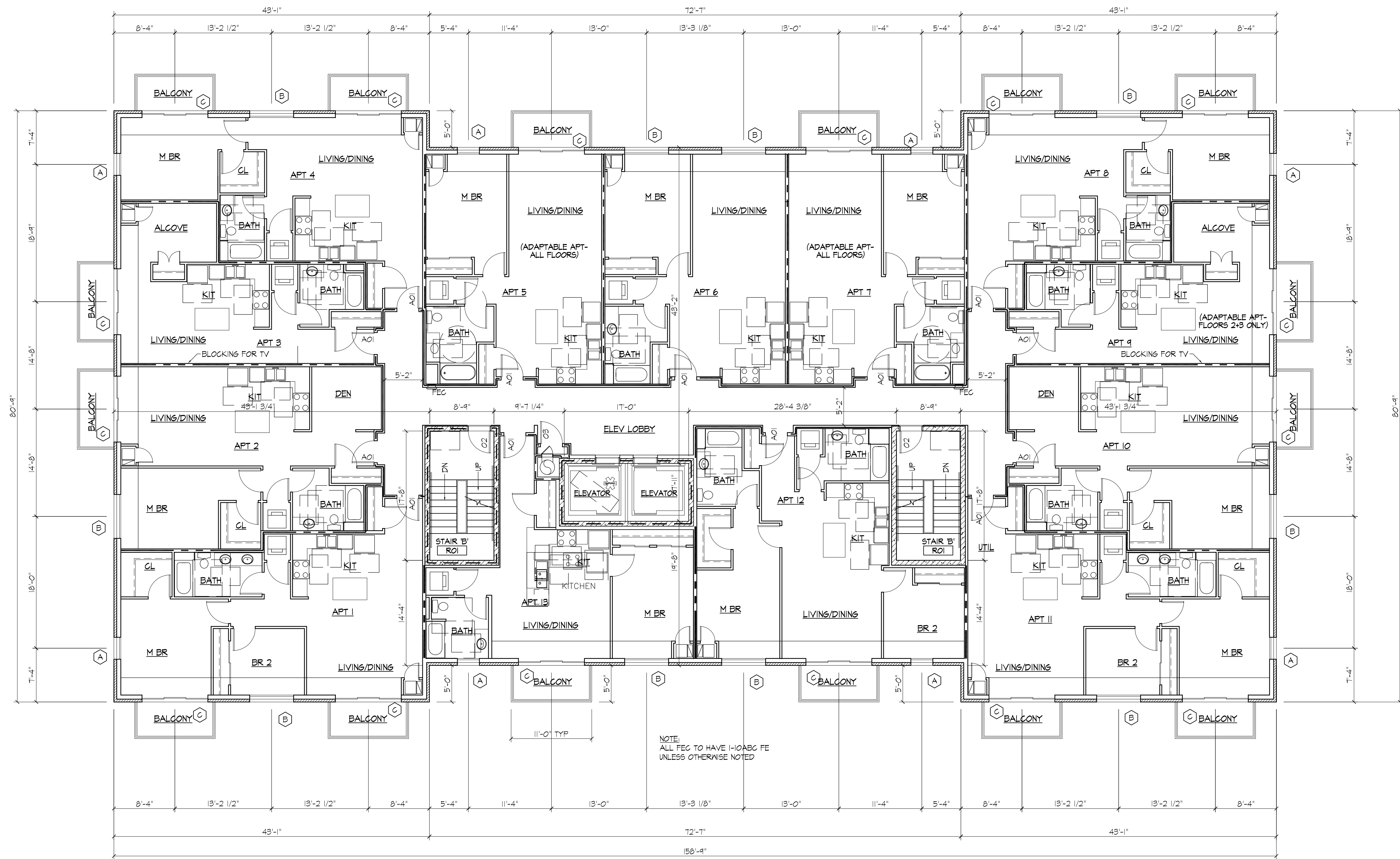
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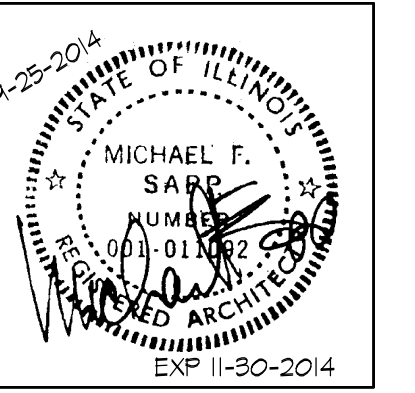
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**FIRST FLOOR APT PLAN**

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SECOND FLOOR PLAN  
 SCALE: 1/8"=1'-0" APPROX. 12,043 SF  
 THIRD FLOOR - SIMILAR



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 (618) 344-8699  
 Architects-Planners  
 6201 W. Main Suite 150  
 Maryville, IL 62062  
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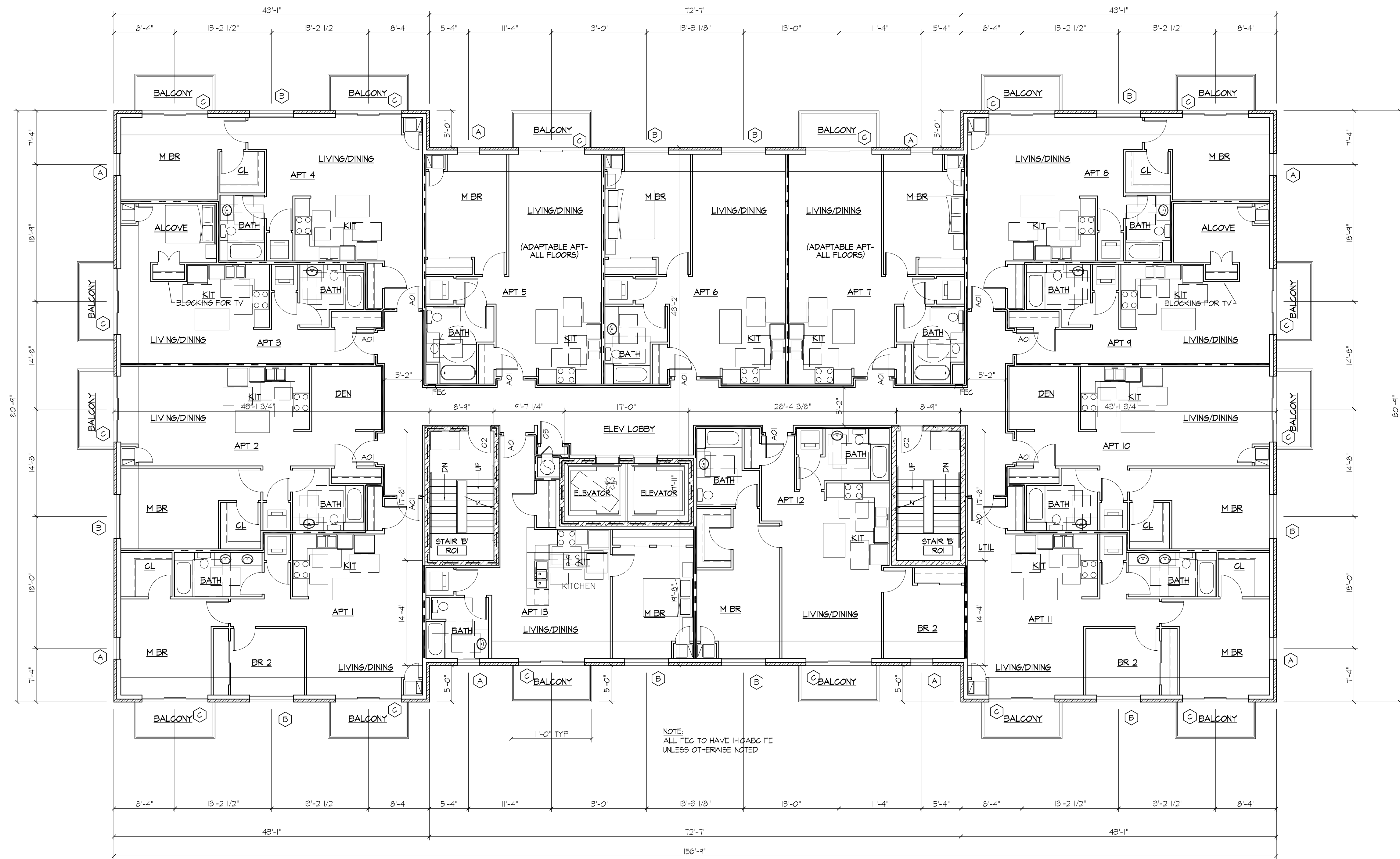
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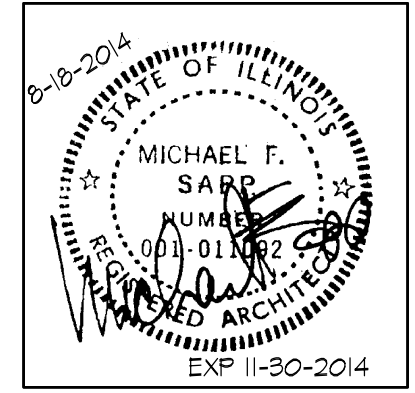
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**TYPICAL APT PLAN FLOORS 2-5**

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FOURTH FLOOR PLAN  
 SCALE: 1/8"=1'-0" APPROX. 12,043 SF  
 FIFTH FLOOR - SIMILAR



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**TYPICAL APT PLAN FLOORS 4+5**

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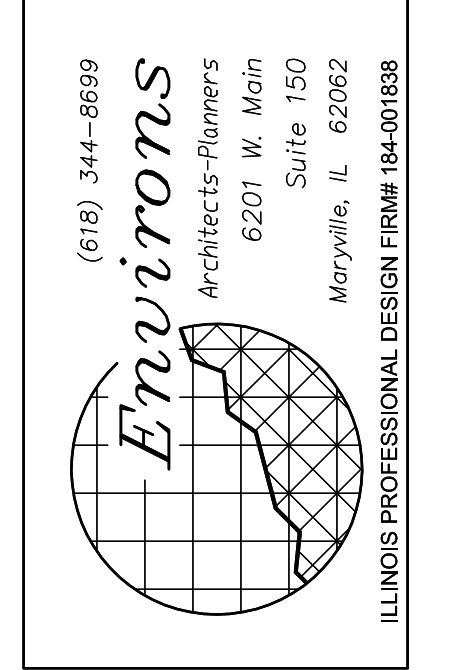
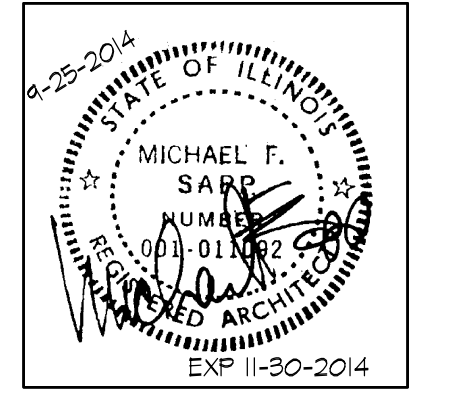
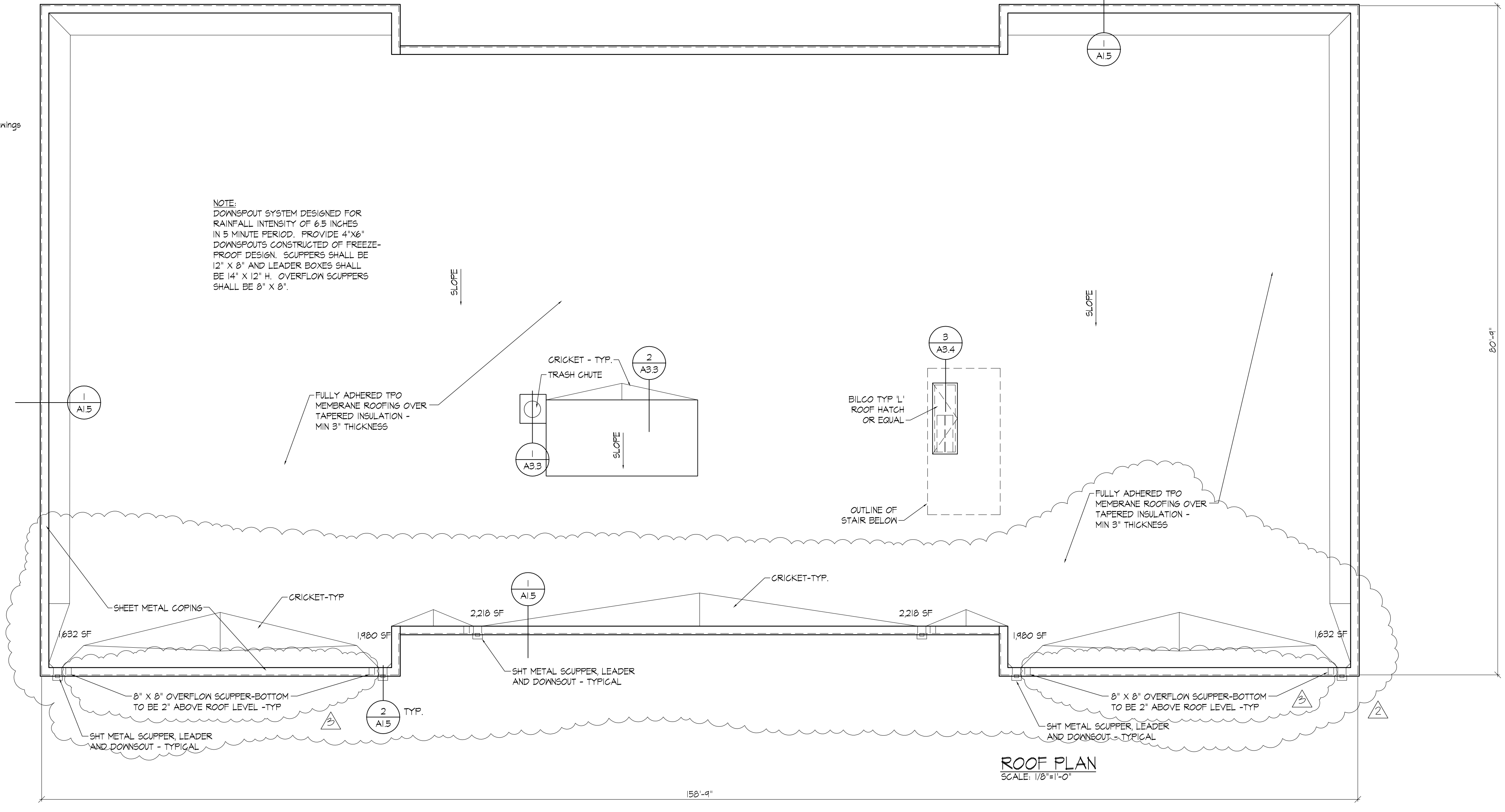
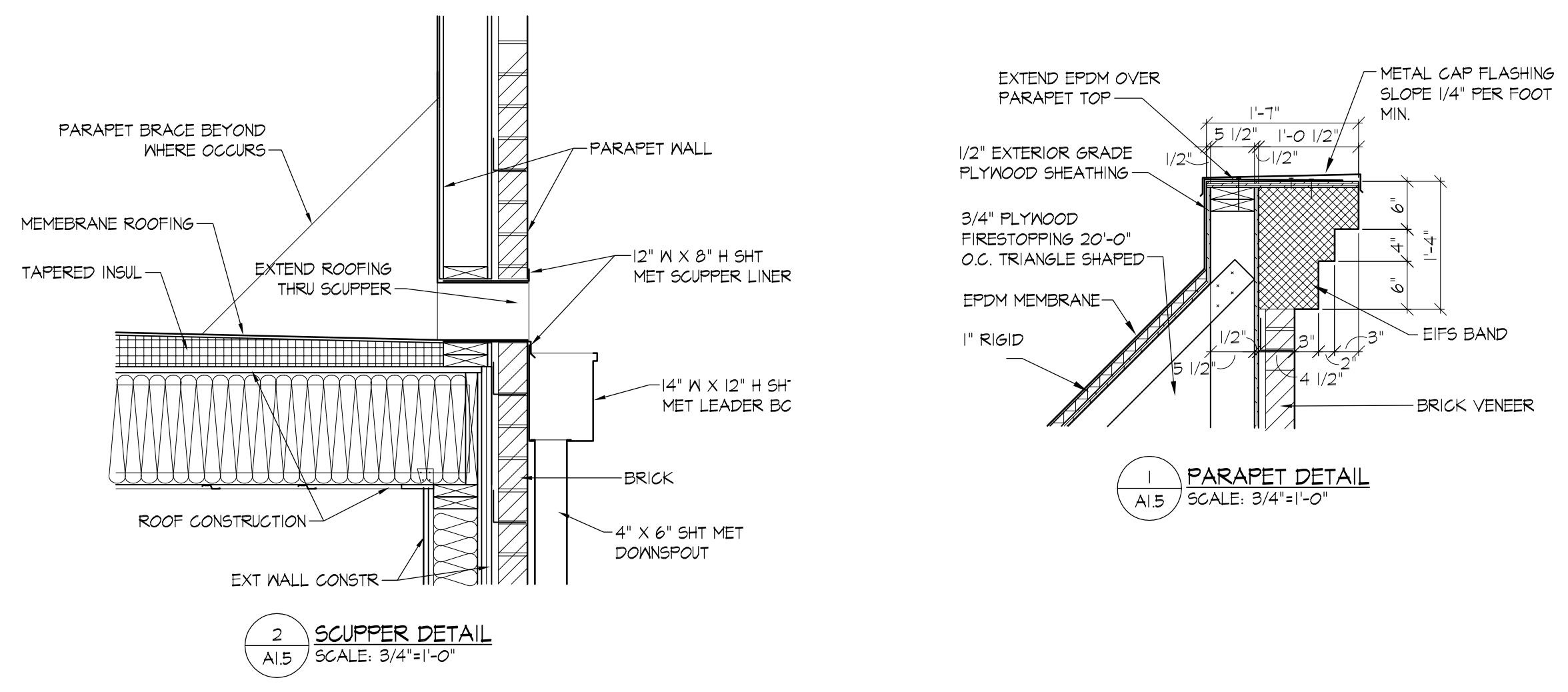
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**SPECIFICATION NOTES:**

- All work shall be as indicated on the drawings and in compliance with all applicable codes and ordinances of authorities having jurisdiction.
- Provide all excavating, filling and grading necessary to complete the work indicated on the drawings. Excavations shall be neatly cut to line and proper depth. Bottoms of all footings shall be level, clean, clear of all loose material and free of standing water. Backfill with clean earth or sand, properly tamped and compacted. Finish grade all areas to drain away from structures.
- Provide subterranean termite control soil treatment chemicals similar to "Dursban TC" acceptable by FHA standards and passing U.S. Forest Service Five (5) year test. Apply under entire area of structure and perimeter of foundations and intensified rate along both sides of foundation and where utilities penetrate walls.
- See General Foundation Notes for specifications on concrete footings, foundation walls and slabs. Provide all concrete walks, pavings, curbs as indicated and required.
- Entire site shall be cleared and grubbed as required. Upon completion of final grading, site shall receive grass seed, fertilizer and straw. Water as required.
- See Structural Drawings for structural notes and information.
- Provide all necessary carpentry work including framing, layout, cutting, bracing blocking grounds and rough hardware. All framing shall be securely anchored, blocked, spiked or bolted in place, conditions governing. All nailing shall be in accordance with IBC Code. Provide diagonal bracing at all exterior wall corners.
- Non-structural Framing and board lumber shall be min. No. 2 grade SPF, except studs which shall be "stud" grade. Sizes shall be as indicated on the drawings. Firestop all partitions, soffits, overhangs and drop ceilings as required. Floor and Roof Joists shall be T-11 code approved for specific use. --designed by manufacturer. Roof trusses shall be designed to support loads indicated, and miscellaneous loading required. All framing exposed to the elements and plates in contact with concrete and masonry shall be treated with waterborne salt preservatives.
- Roof sheathing shall be minimum 5/8" thick APA rated plywood roof sheathing designed for the specific installation, exterior type, Group I veneer species. Floor and Roof Joists shall be T-11 code approved for specific use. --designed by manufacturer. Roof trusses shall be designed to support loads indicated, and miscellaneous loading required. All framing exposed to the elements and plates in contact with concrete and masonry shall be treated with waterborne salt preservatives.
- Wall sheathing at stud wall shall be minimum 1/2 inch thick APA Rated exterior wall sheathing designed for the specific installation. All joints shall occur over supports, nailing as recommended by the manufacturer. Provide diagonal bracing at corners as required.
- Provide shear walls where indicated on drawings. Shear walls shall be constructed by applying 1/2 inch thick, minimum 4'-0" wide C-D interior grade with exterior glue structural II plywood sheathing installed on exterior with face glue across studs and nailed 3" o.c. at all edges of panels and 8" o.c. at intermediate studs with IG3 common nails. (Note: Anchor bolts shall be minimum 8" embedment and 2'-0" o.c. at shear wall locations.)
- Plywood subfloor shall be 3/4" thick APA rated STURD-I-FLOOR, exterior type, Group I veneer species. End joints shall be staggered and shall occur over floor joists. Fit tightly to all penetrations. Provide underlayment at all areas to receive resilient flooring.
- All exterior load bearing frame walls shall be constructed from fire retardant treated materials.
- Not Used.
- All exterior woodwork for subbase for siding, trim, fascias, etc. shall be fir or southern pine, sizes as required. All exposed exterior woodwork and trim shall be redwood or equal.
- Plastic laminate work including guest room vanities, misc. casework and all countertops shall be fabricated and installed in accordance with ANI Standards. Colors shall be as selected by the Owner.
- Base and wall cabinets in the reception and office areas indicated shall be plastic laminate ANI Standard Custom Grade (Section 400).
- Provide shelving and supports where indicated on the drawings. Coat racks and poles in apartments shall be coated wire shelving system. Coordinate with Owner.
- Provide concrete filled steel pan stair system similar to system designed and manufactured by American Stair. Railings and guards shall be 1 1/2" diameter pipe railing with 1/2" dia. vertical pickets - 4" o.c., max.
- Exterior load bearing partitions have two layer 5/8" type 'X' gypsum drywall over 6 mil. poly vapor barrier on interior face of studs. Install one layer of 1/2" APA rated plywood or OSB sheathing as indicated on structural drawings on exterior face of 2x6 studs and then install two layers of 5/8" type 'X' gypsum sheathing.
- Exterior brick shall be Utility size brick as selected by the Owner. Install over one layer of Tyvek infiltration barrier installed over exterior sheathing. Provide relieving angles and brick veneer anchors as indicated and required by BIA requirements.
- Provide fiberglass unfaced batt insulation in walls and ceiling, where indicated. Minimum thickness in exterior stud walls shall be 6" (R=13). A 6 mil polyethylene vapor barrier shall be installed at the warm side of wall and ceiling insulation prior to installation of gypsum board. Ceiling insulation shall be minimum R=38 and shall completely fill joist cavity. Contractor may use blown-in insulation at ceiling locations.
- Not Used.
- Aluminum coping drips, soffits, trim, gutters and downspouts, etc. at roof and fascias shall be .024 inch thick, prefinished aluminum. Color shall be as selected and installed in accordance with manufacturer's recommendations. Provide perforated soffit for attic ventilation as required.
- EPDM roofing system shall be similar to Firestone Rubbergard Adhered system, 60 mil. EPDM over manufacturers manufacturers recommended installation.
- Caulking shall be one part acrylic caulking similar to Tremco "Dymonic". Caulk all exterior joints which are not self sealing and other points indicated.
- Exterior aluminum entrances and fixed frames at lobby area shall be Kanneer, Thermal Break, 451T, anodized aluminum with 1" insulating clear tempered glass.
- Windows and sliding exterior doors shall be nail fin design thermally broken vinyl frame single hung window with 5/8" insulated glass units similar to units manufactured by Columbia, Quaker, Crystal (or equal). Sizes as indicated on the drawings. Sliding door units shall be Horizontal Sliding units Thermal Break or equal. Provide all trim and accessories for a complete installation. Glazing shall be tinted insulated glass. Color/finish shall be as selected.
- Interior doors shall be 1-3/4" solid core wood doors similar to units manufactured by VTI and selected by Owner and Contractor. Verify finish hardware and locking requirements. Provide UL rated units where required. Provide 20 min. fire rated units at apartment entry and all other corridor doors. Provide "B" label units at all stair doors and "C" label at storage doors. Provide Refer to door schedule for additional information. Coordinate locking requirements with Owner. Provide 180° peepholes and security bar at all apartment corridor doors.
- All interior partitions and finish of exterior walls shall be minimum 5/8" gypsum board. Provide type 'X' or 'C' gypsum board at all ceilings and partitions where required. Finishes shall be as directed by the Owner. Provide 3/2" thick fiberglass thermal batt sound insulation at all toilet rooms and mechanical room partitions and partitions between units.
- Paint and finish all interior and exterior surfaces which are not prefinished. Utilize three coat work (including primer) for all work and insure full coverage. Colors to be selected by the Owner.
- Carpet all areas except toilet rooms, baths, laundry, mechanical and storage rooms as indicated on drawings. Carpet shall be a minimum 52 oz. carpet weight, carpet and base to be selected and provided by Owner. Provide sheet vinyl flooring at bath rooms and kitchens (as indicated on drawings). Flooring pattern and color to be selected by Owner.

- Provide one double toilet paper holder, two towel bars (24" long) and one shower curtain rod at each bath. Provide one Bobrick B-834T (or equal) facial tissue dispenser at each lavatory. Units shall utilize concealed fasteners. Units to be selected by Owner.
- Mirrors shall be 3/16" clear float glass with full silver coating. Mount mirrors with chrome mounting clips. Units to be selected by Owner.
- Provide grab bars at all handicapped restroom facilities as indicated on drawings. Units shall be similar to Bobrick washroom equipment and shall be installed in accordance with manufacturer's specifications.
- All signage both interior and exterior, except for emergency and or traffic signage shall be provided and installed by the Owner.
- Kitchen equipment (NIC) in Apartment and Breakfast Area to be provided by the Owner and installed by the Contractor.
- Owner shall provide all laundry and cleaning equipment.
- Plumbing and sewer work shall be installed complete in accordance with all codes and ordinances. Utilize copper pipe for water supply, type M or L, with wrought copper sweat fittings. Copper pipe below grade shall be type "K". All drain, waste and vent piping shall be schedule 40 DNV piping. Gas piping shall be black iron pipe and fittings rated for gas service and distribution use.
- Sprinkler work shall be designed and installed in accordance with NFPA 13, hydraulically designed by sprinkler contractor. Provide audible and visual alarms. Place piping in conditioned areas to prevent freezing or provide means to prevent pipes from freezing in unconditioned areas.
- Heating and air conditioning work shall be installed complete in accordance with all applicable codes and ordinances. Furnish all component parts including thermostats, connections, fittings, etc. for proper operation.
- EXTERIOR DOORS AND FRAMES, AND INTERIOR DOOR FRAMES SHALL BE 1 3/4" HOLLOW METAL DOORS & FRAMES SIMILAR TO UNITS MANUFACTURED BY STEELGRAFT AND SELECTED BY THE OWNER AND THE CONTRACTOR. VERIFY FINISH HARDWARE AND LOCKING REQUIREMENTS. PROVIDE UL RATED UNITS WHERE REQUIRED. PROVIDE TWENTY (20) MINUTE FIRE RATED UNITS AT GUEST ROOMS AND ALL OTHER CORRIDOR DOORS, EXCEPT 1 HOUR "B" LABEL UNITS AT ALL STAIR, STORAGE, MECHANICAL ROOM & MAINTENANCE AREA DOORS. PROVIDE YORK E476LN-626 APARTMENT ENTRY LOCKS. BUILDING ENTRY DOORS SHALL BE EQUIPPED WITH CAT II CONTROLLER ACCESS TECHNOLOGY - SELECT ENGINEERED SYSTEM SYSTEM OF EQUAL. PROVIDE ALL HARDWARE REQUIRED FOR PROPER INSTALLATION. ALL HARDWARE SHALL COMPLY WITH THE REQUIREMENTS OF THE IBC CODE AND ADA REQMTS. NO HARDWARE SHALL BE MOUNTED ABOVE 48" A.F.F. AS REQUIRED FOR ADA COMPLIANCE.

- Trash Chute: Shall be 24" diameter 16' gal. aluminized steel as manufactured by Nilkenson Chute Company. Intakes shall be 21"x21" size hinged "B" label, stainless steel (w/ embossed letters "Trash") in drywall construction. Type Vertical discharge w/ 1" dia. drain flange. Provide steel I floor frames, provide 1/2" 165 degree sprinkler head above top intake. Offset full diameter vent thru roof to occur at rear side of roof.
- ELEVATOR SHALL BE THYSSEN KRUPP SEVILLE, PASSENGER TYPE WITH CLASS A LOADING CAPACITY, 3500LB., 100 FPM SINGLE CAR WITH FRONT AND REAR OPENINGS. SINGLE SPEED DOOR 3'-0"x7'-0" BAKED ENAMEL FINISH, COLOR TO BE SELECTED BY THE OWNER. PROVIDE STANDARD FEATURES OF THE 3500 WITH OPTIONAL HALL LANTERNS. PROVIDE CAB WITH WALL MOUNTED HANDRAILS 2'-6" OFF FLOOR. ELEVATOR SHALL MEET ADA REQUIREMENTS AND COMPLIANT WITH THE SAFETY CODE OF ELEVATORS AND ESCALATORS (ASME A17.1) AND CSA SAFETY CODE FOR ELEVATORS. POWER SUPPLY SHALL BE 3 PHASE 60 HZ. CAB FINISH SHALL BE AS DIRECTED.



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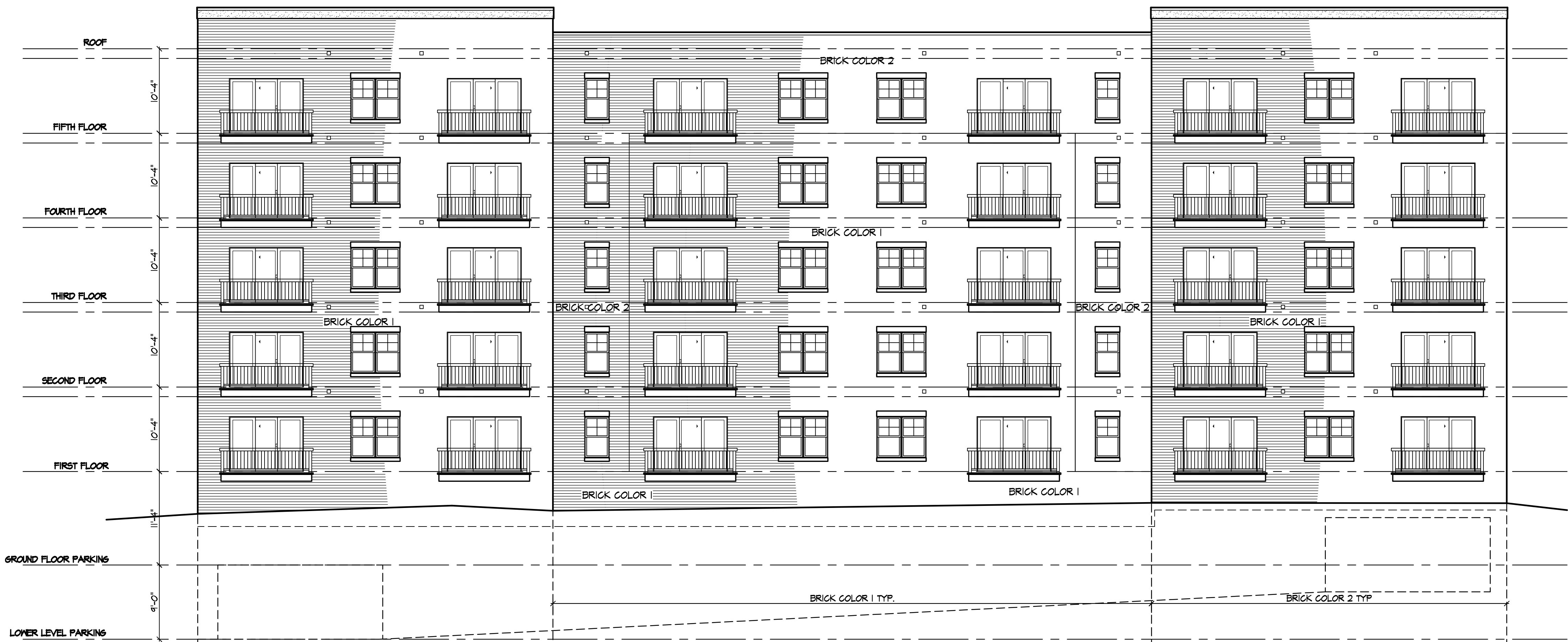
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**ROOF PLAN**

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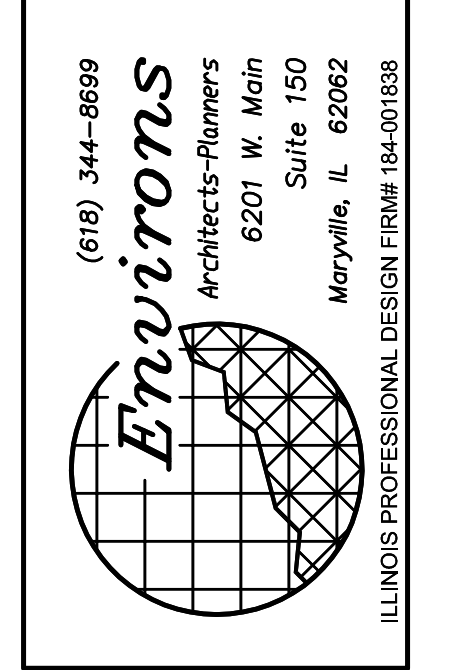
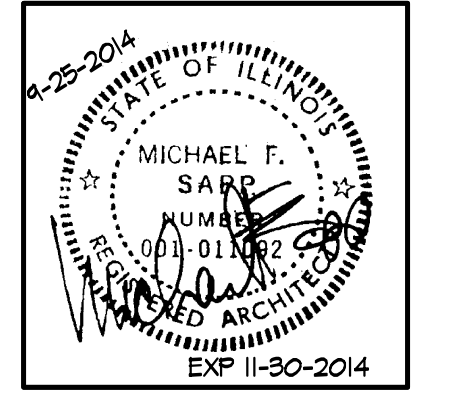
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NORTH ELEVATION



SOUTH ELEVATION  
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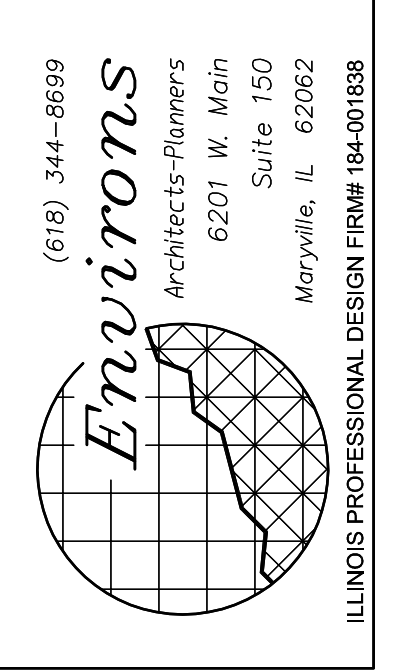
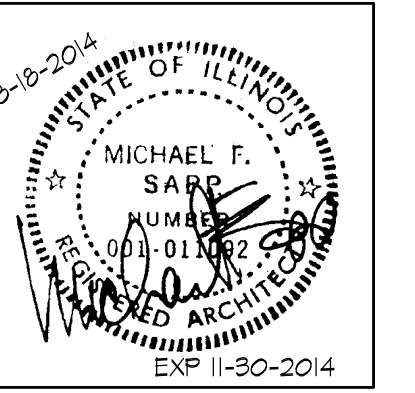
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**ELEVATIONS**

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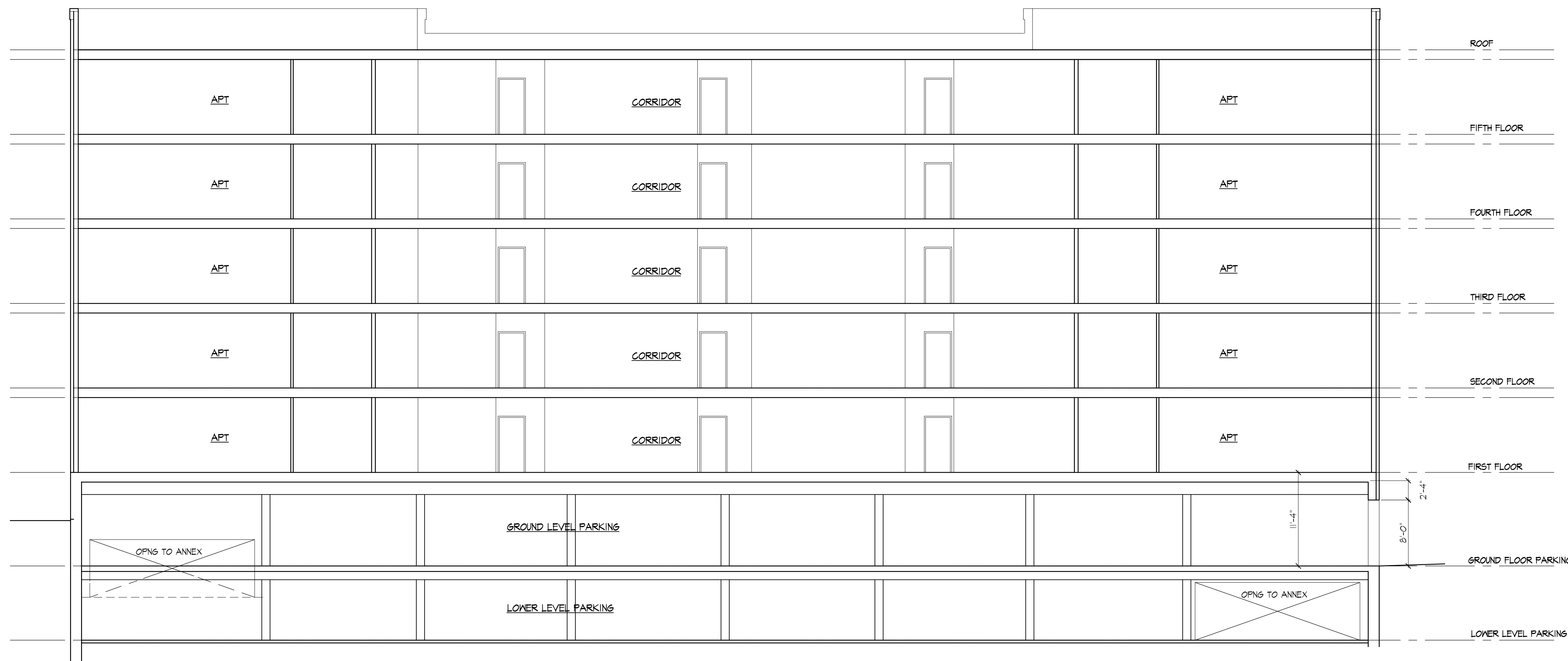
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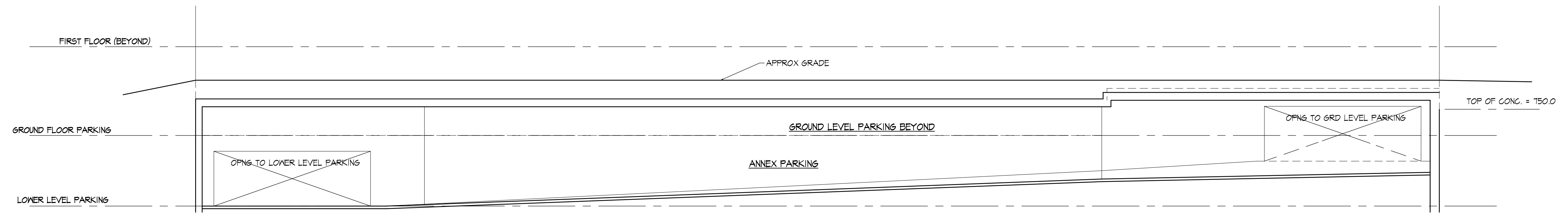
EAST ELEVATION  
SCALE: 1/8"=1'-0"



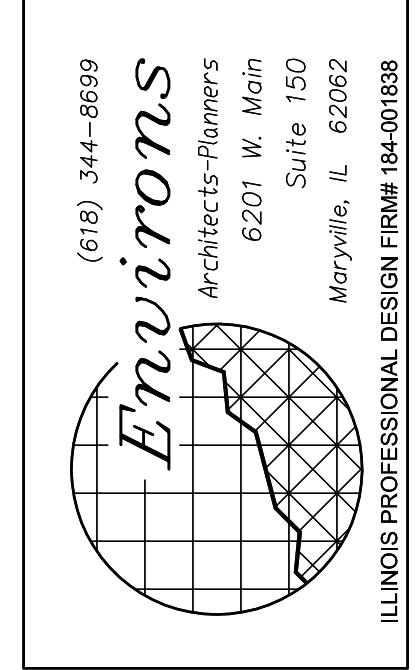
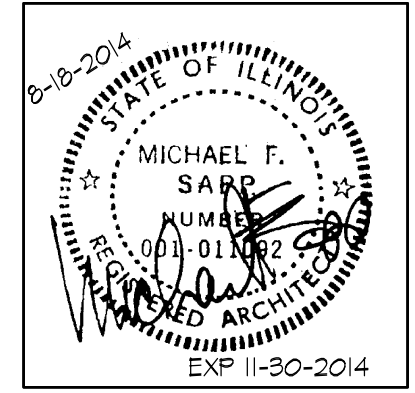
WEST ELEVATION  
SCALE: 1/8"=1'-0"



BUILDING SECTION - LOOKING SOUTH  
SCALE: 1/8"=1'-0"



SECTION THRU ANNEX - LOOKING NORTH  
SCALE: 1/8"=1'-0"



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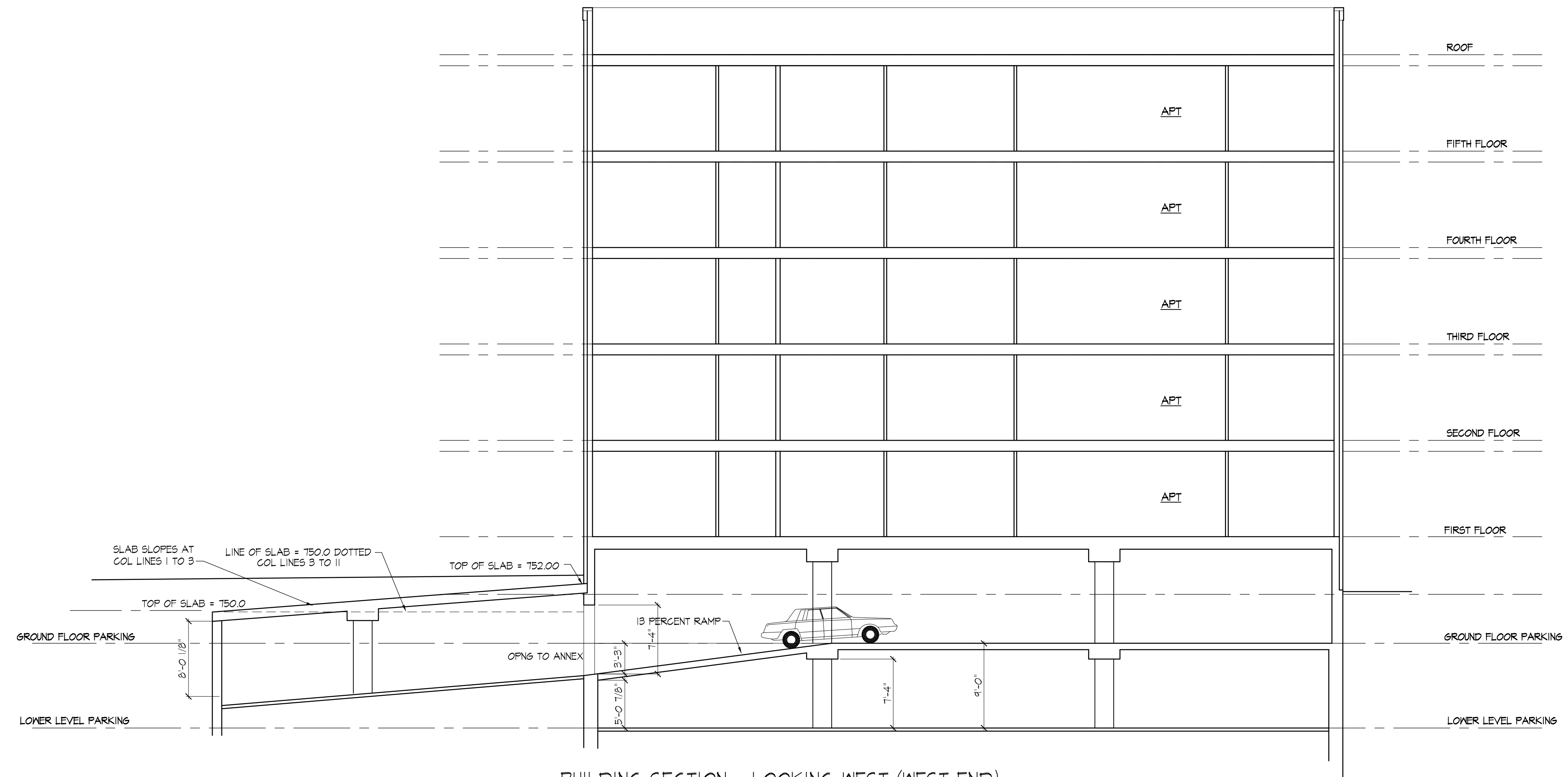


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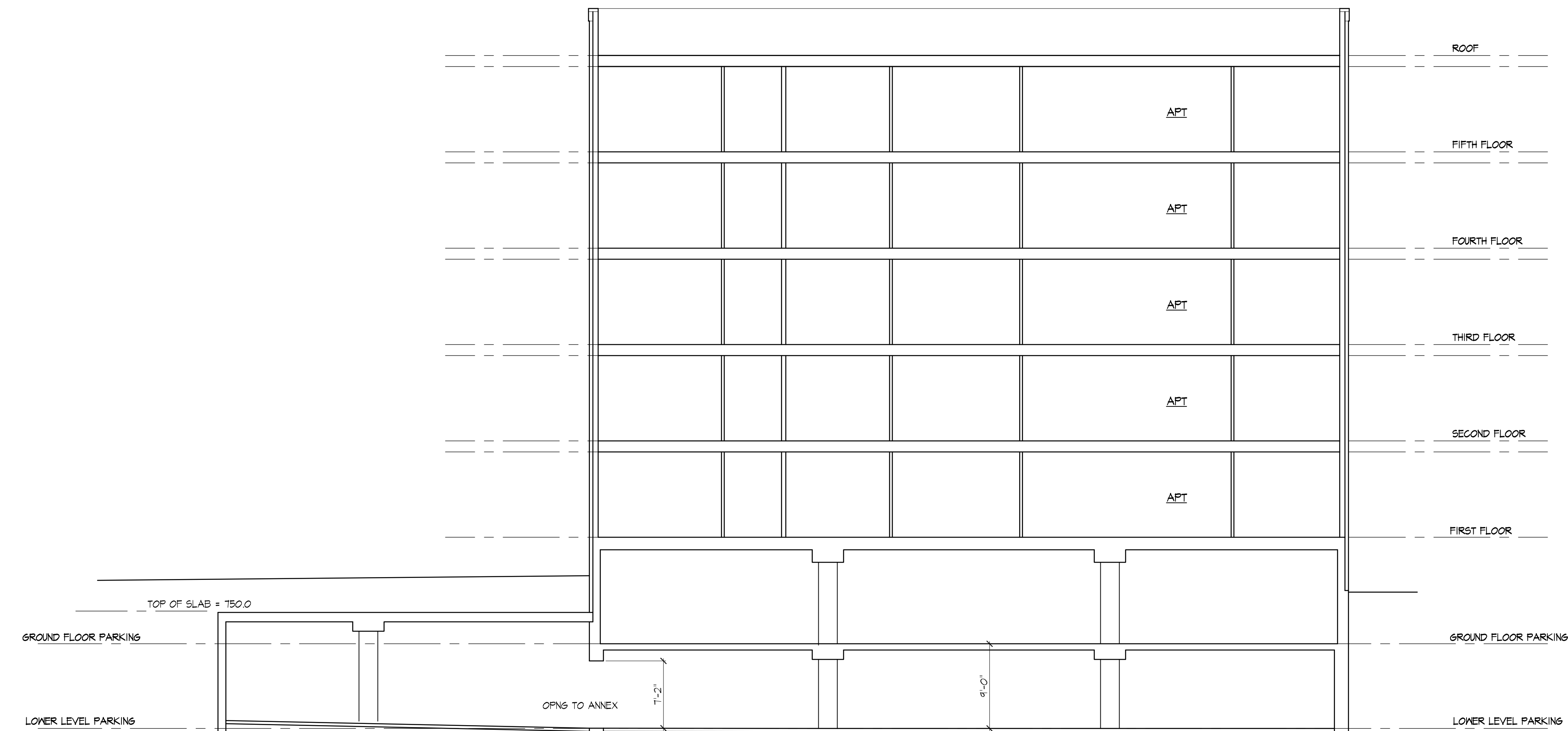
BUILDING SECTIONS

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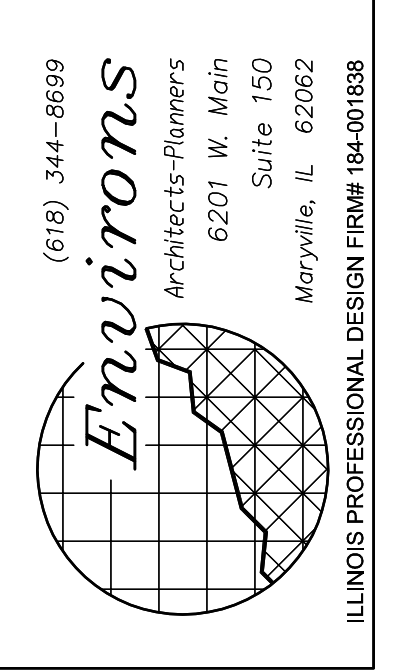
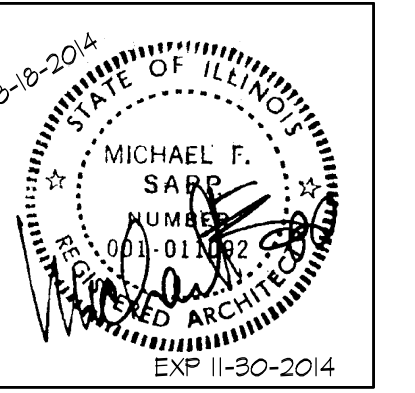
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BUILDING SECTION - LOOKING WEST (WEST END)  
SCALE: 1/8"=1'-0"



BUILDING SECTION - LOOKING WEST (EAST END)  
SCALE: 1/8"=1'-0"



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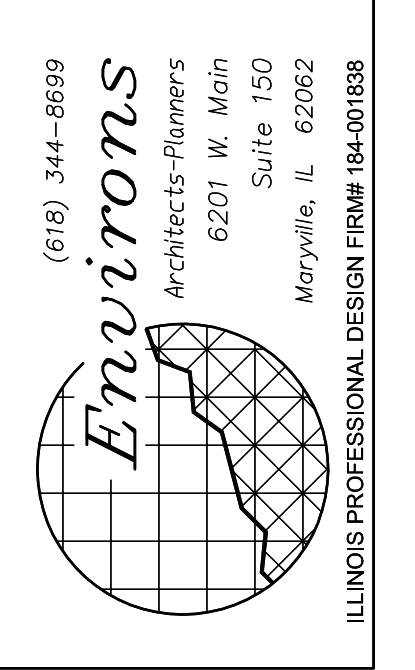
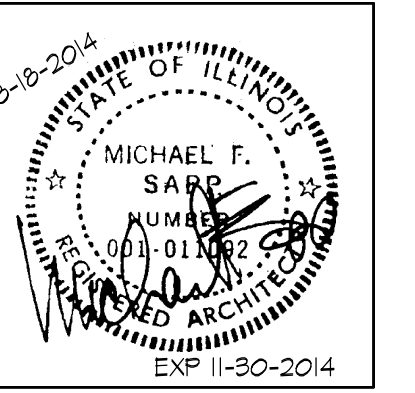


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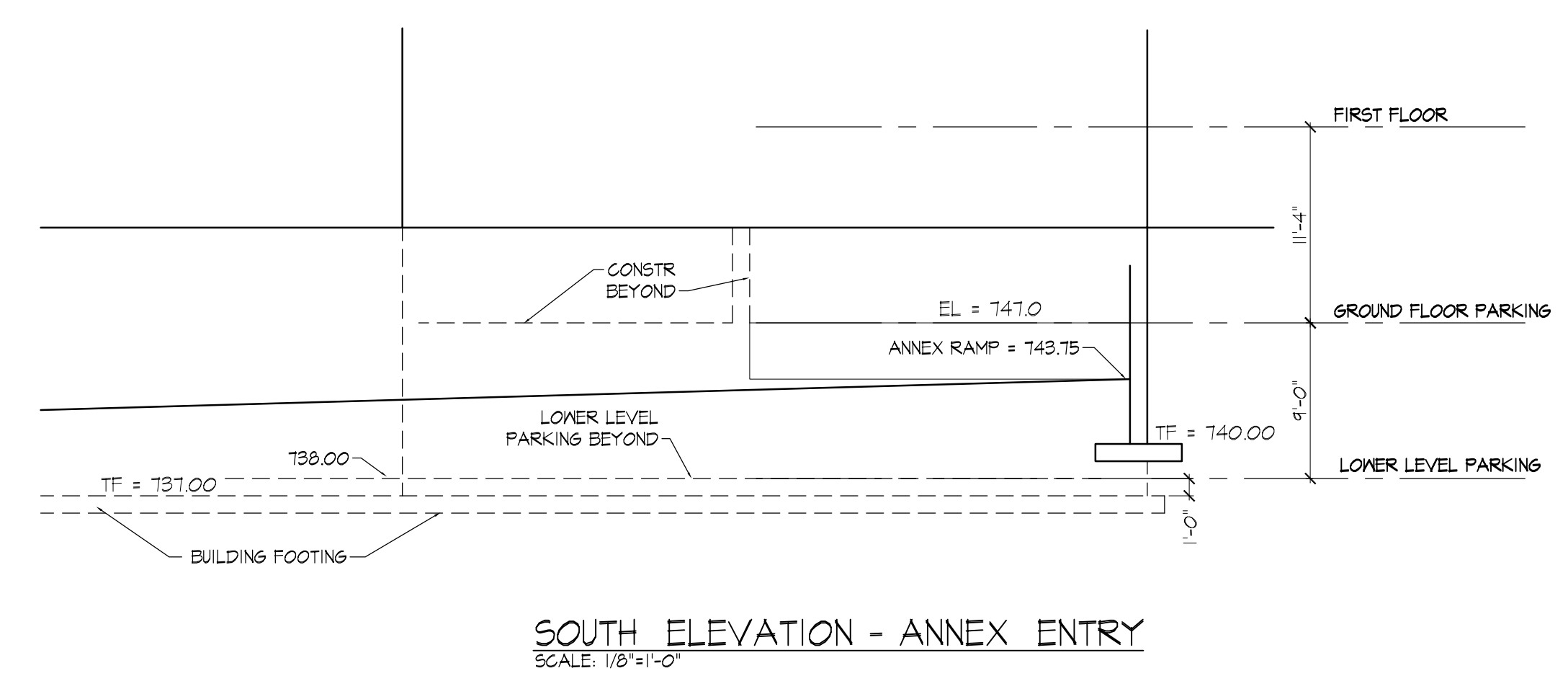
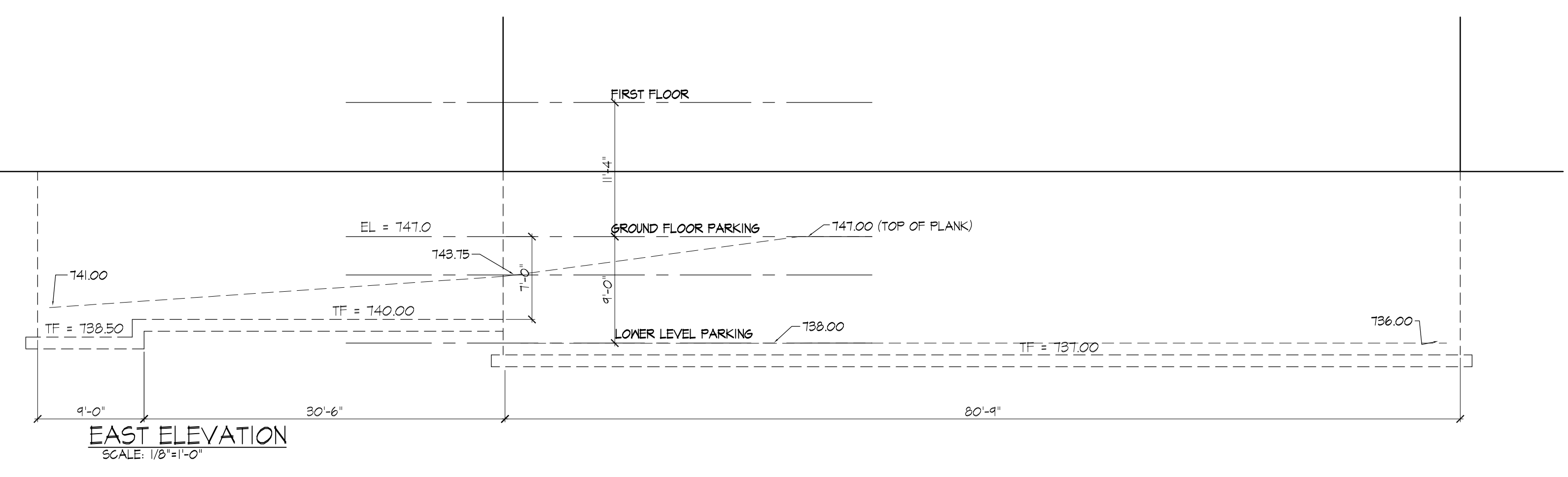
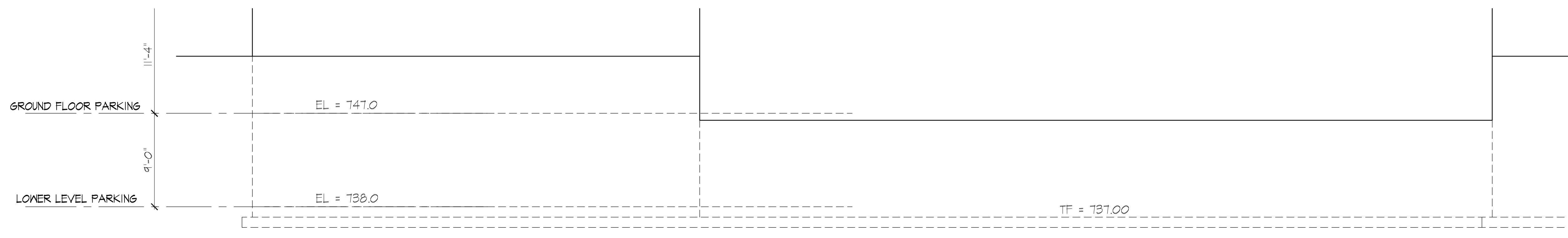
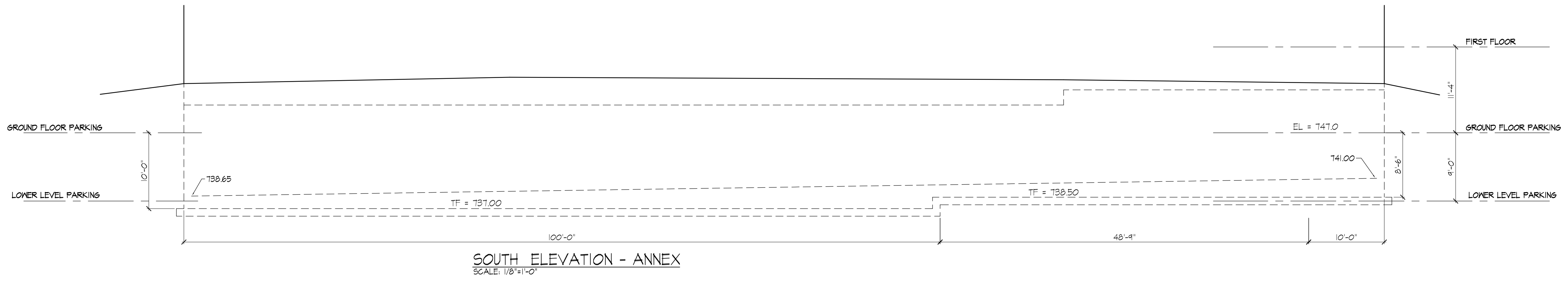
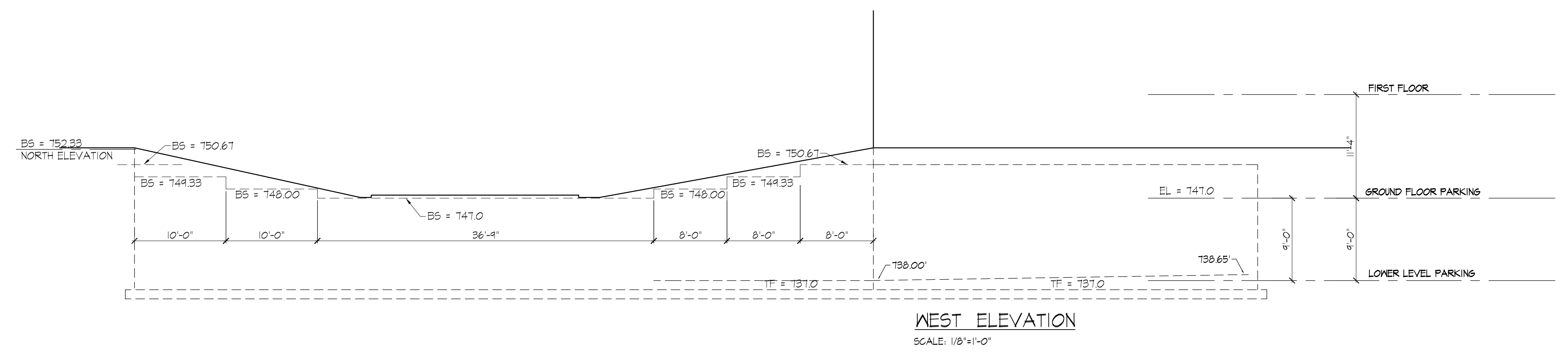
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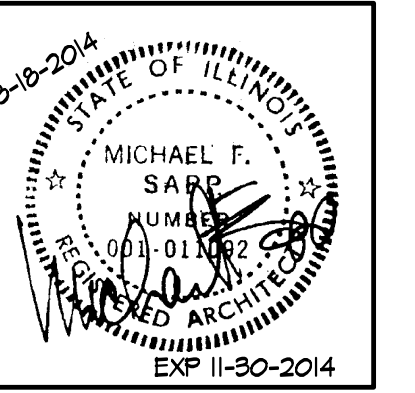


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**STEP OF FOOTING AT ANNEX**

SHEET  
**A2.4**  
 OF 28





(618) 344-8899  
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 Architects-Planners  
 6201 W. Main  
 Suite 150  
 Maryville, IL 62062  
 ILLINOIS PROFESSIONAL DESIGN FIRM #194-001838

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13022

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DECEMBER 11, 2013

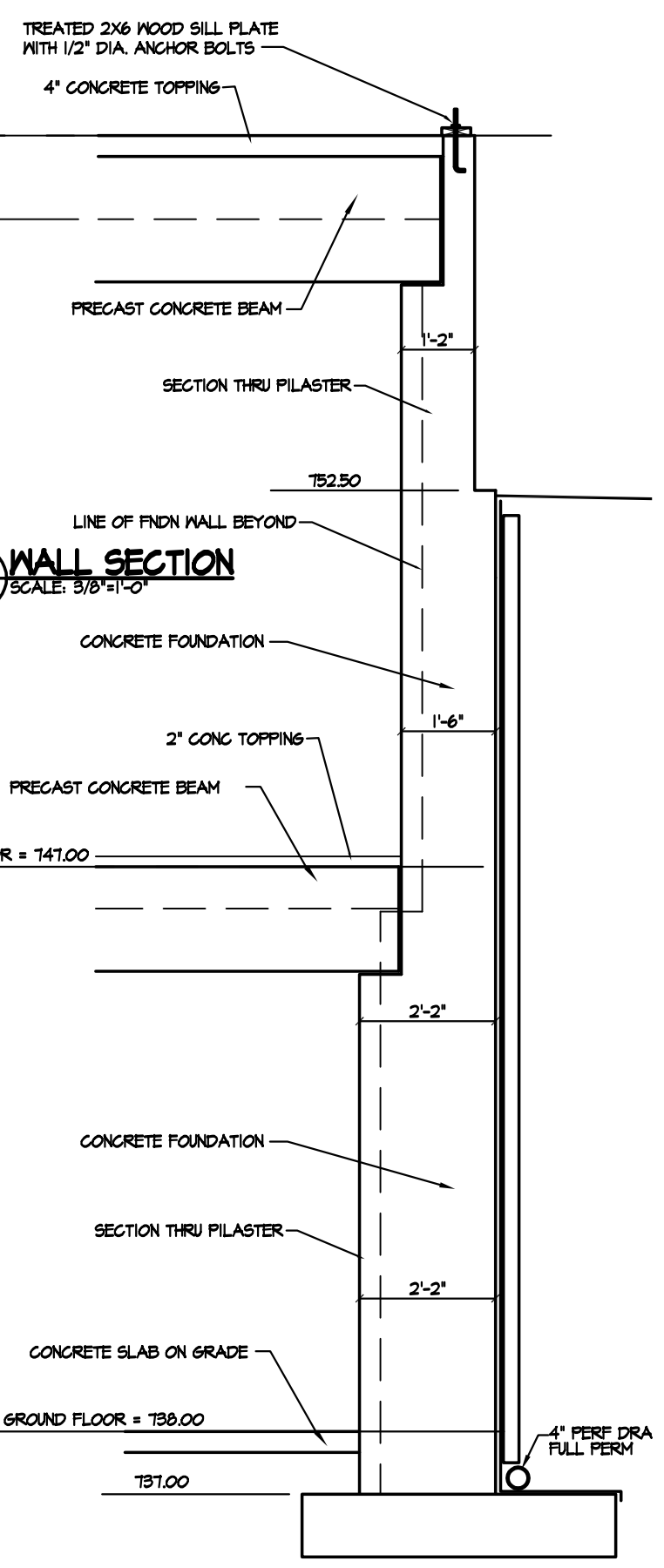
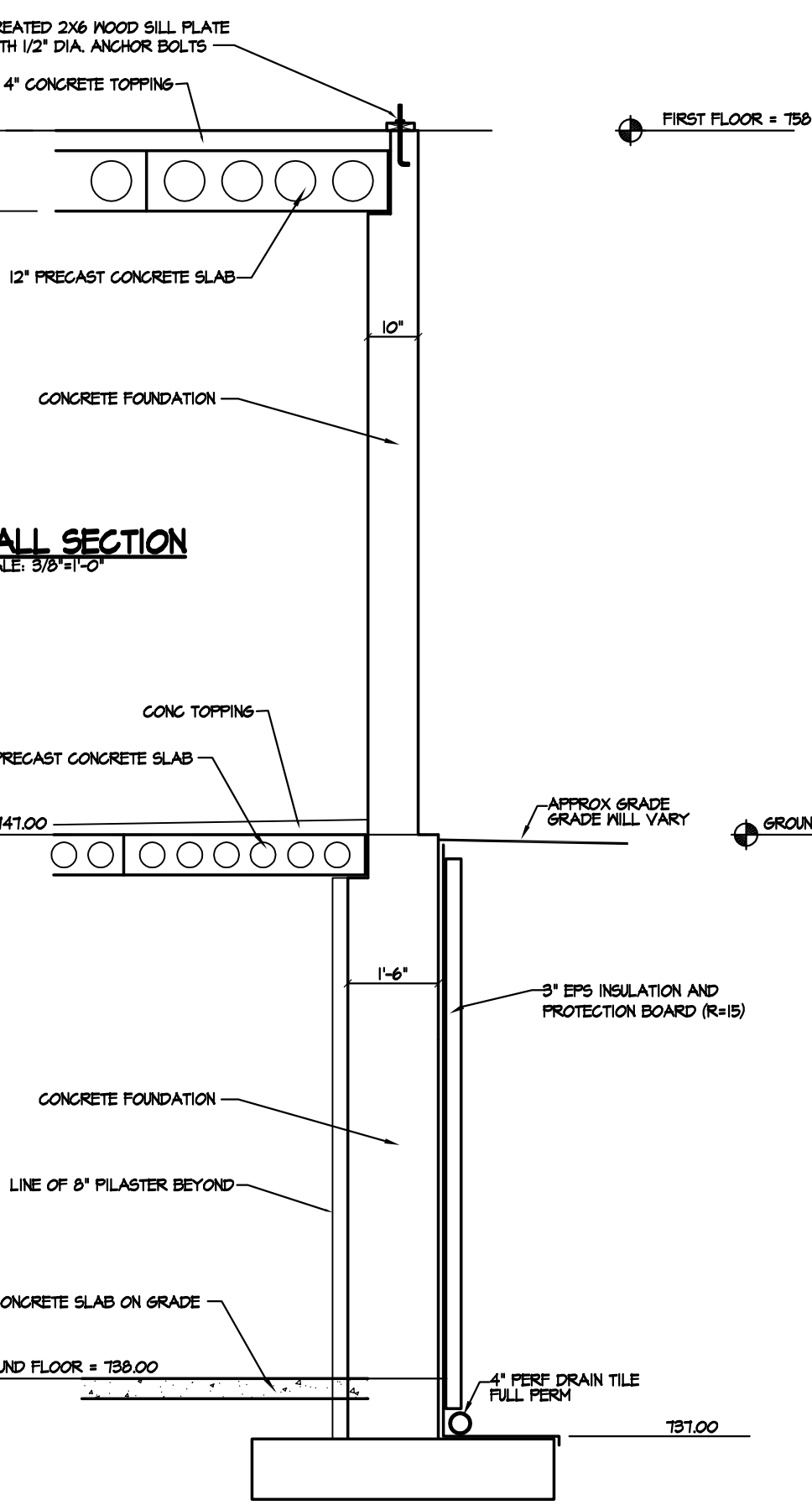
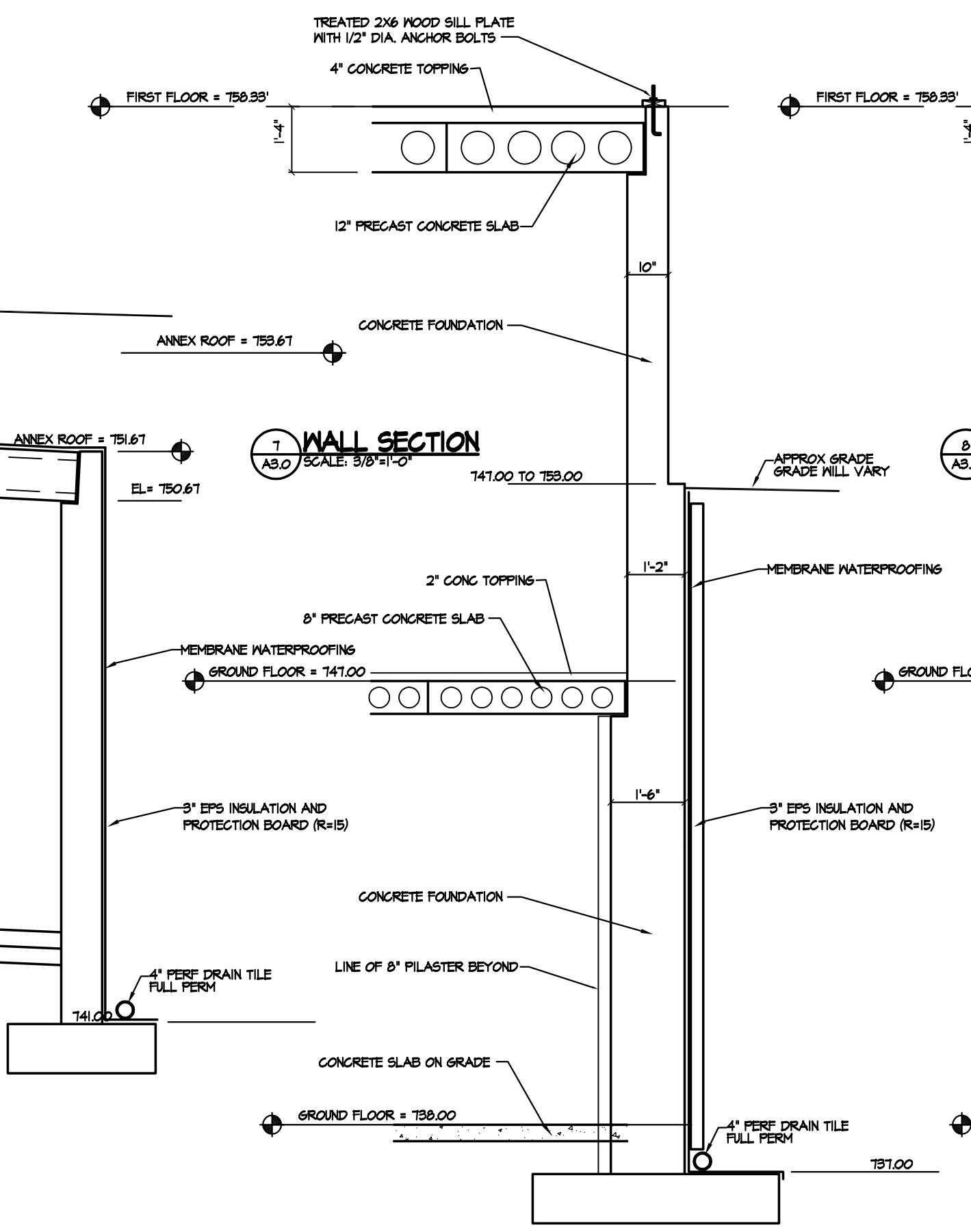
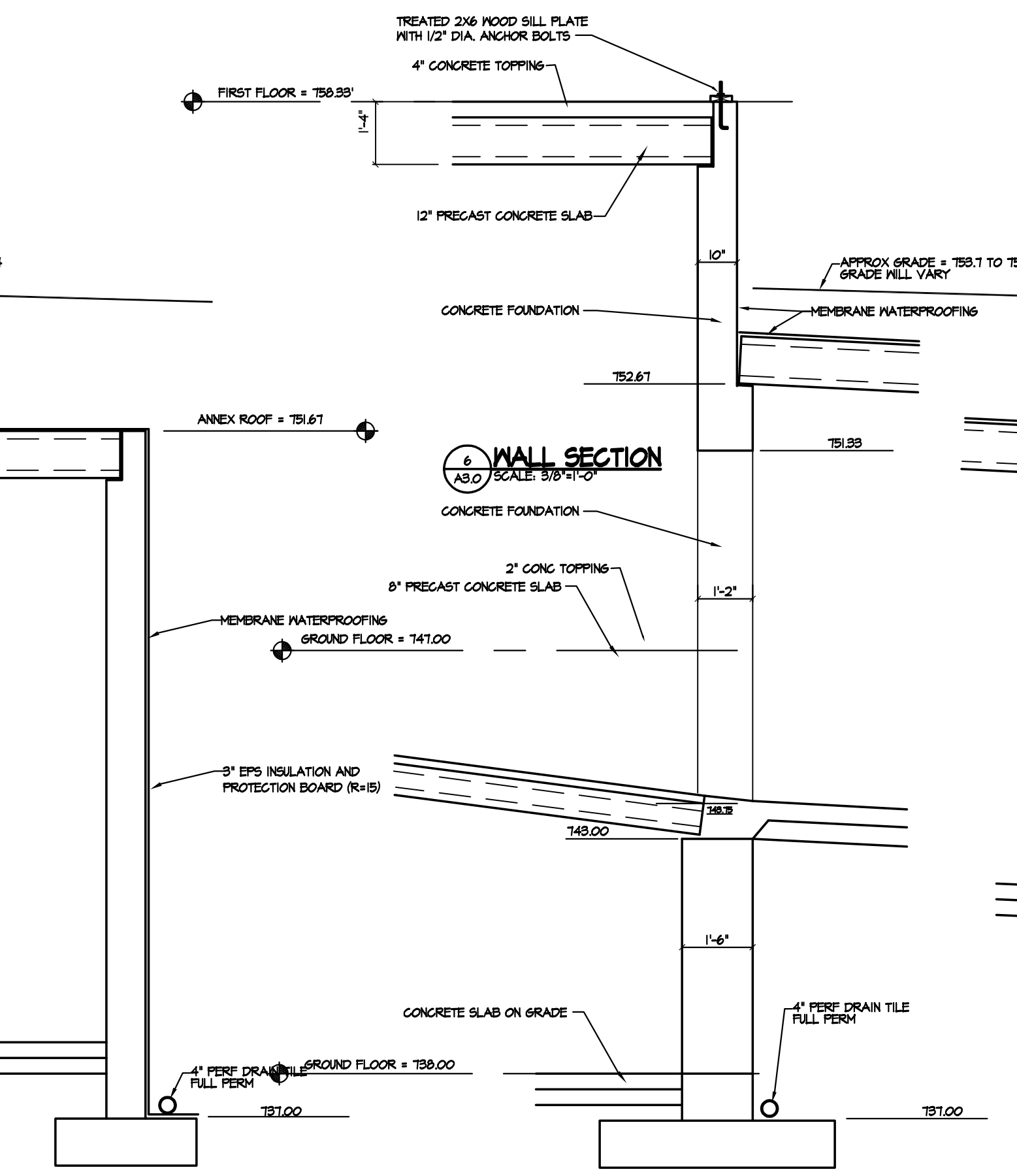
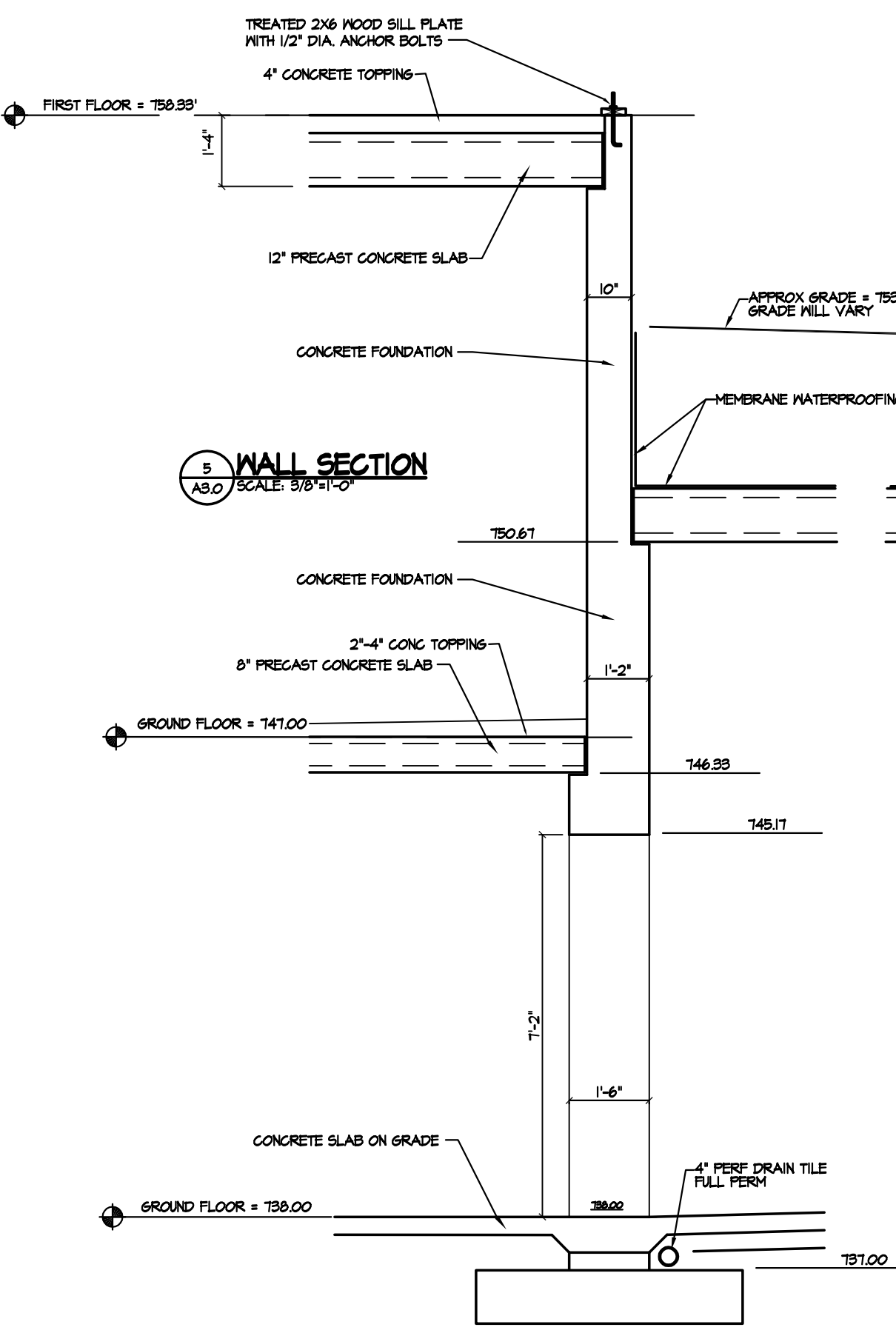
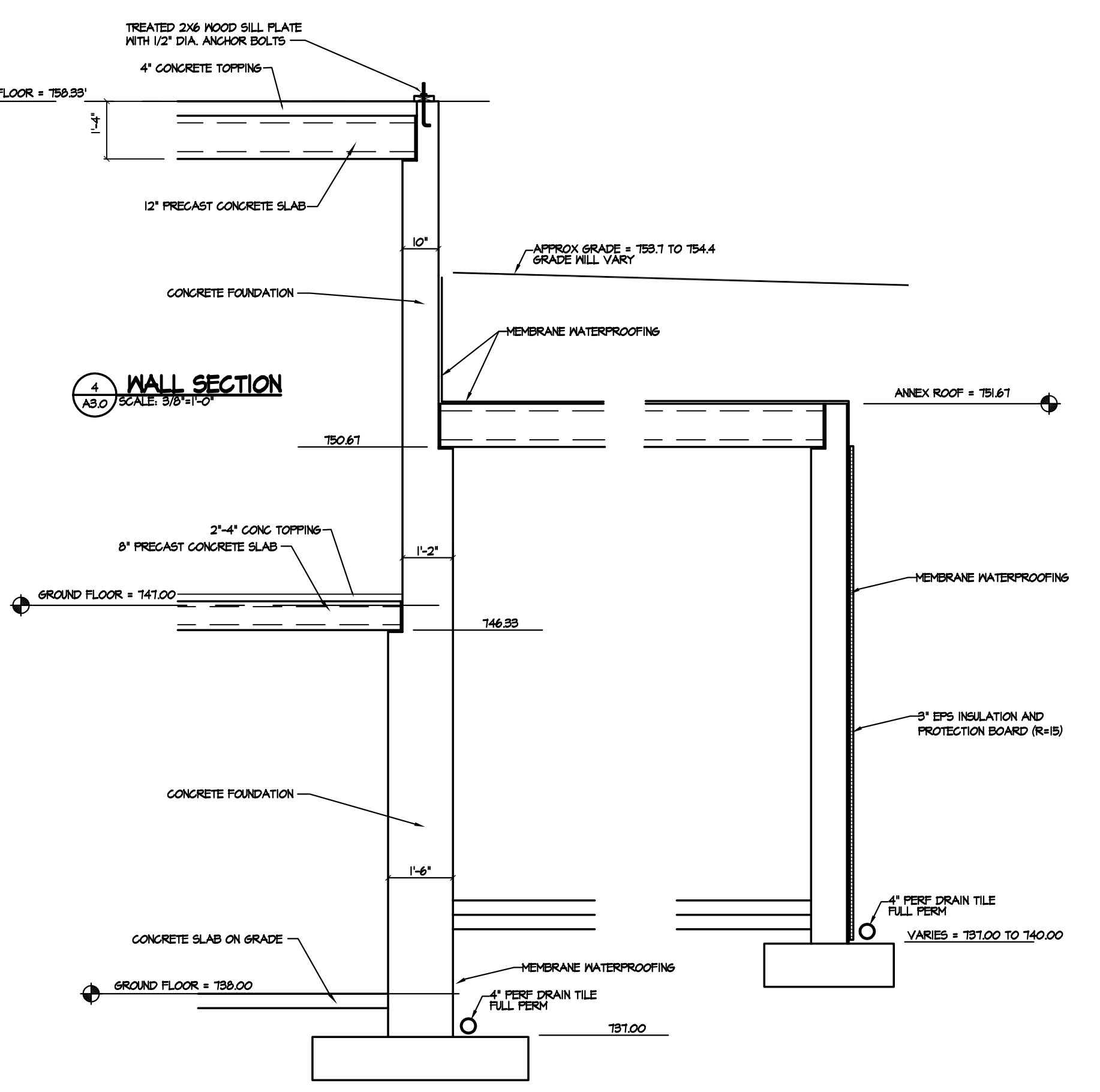
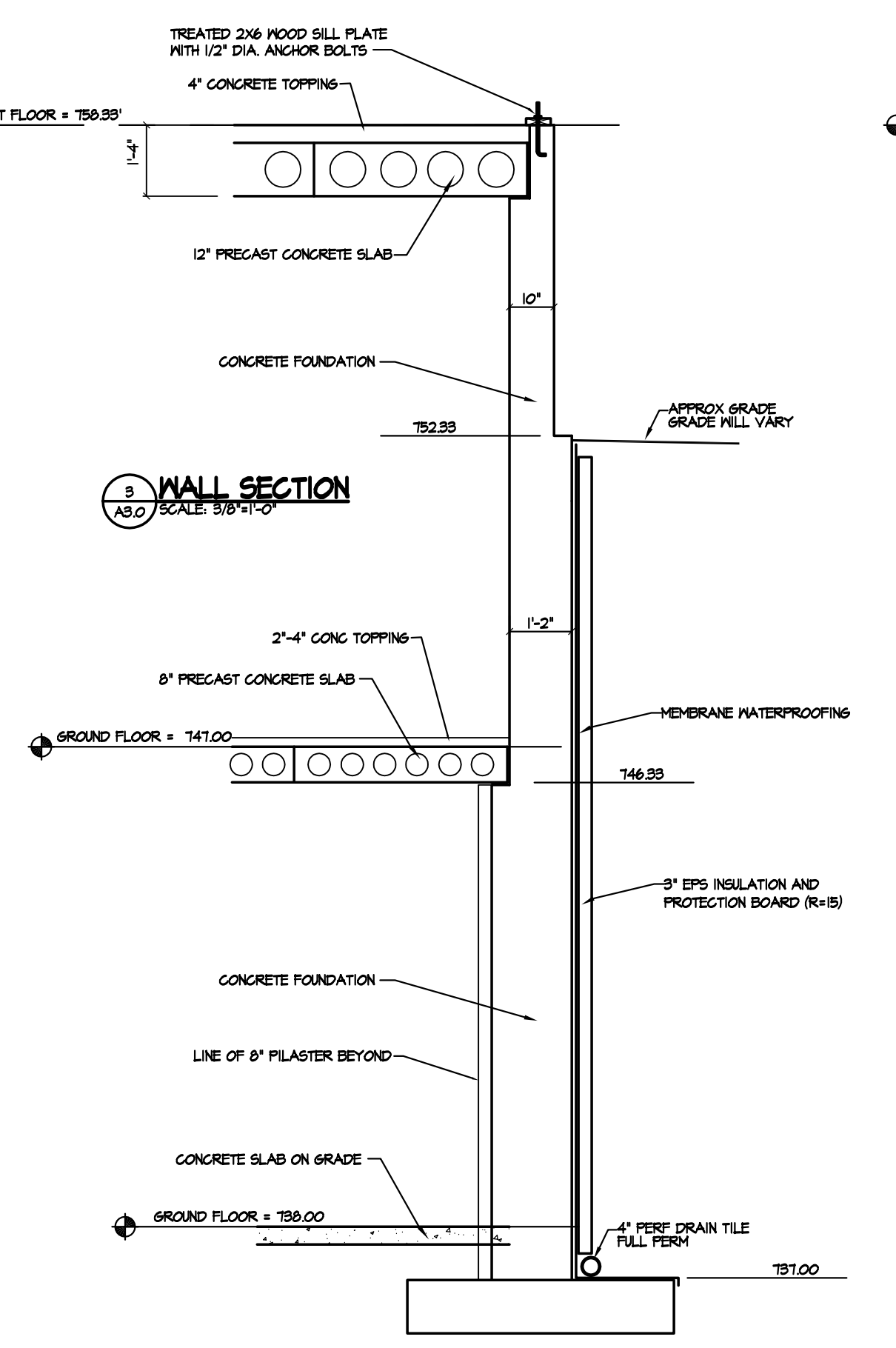
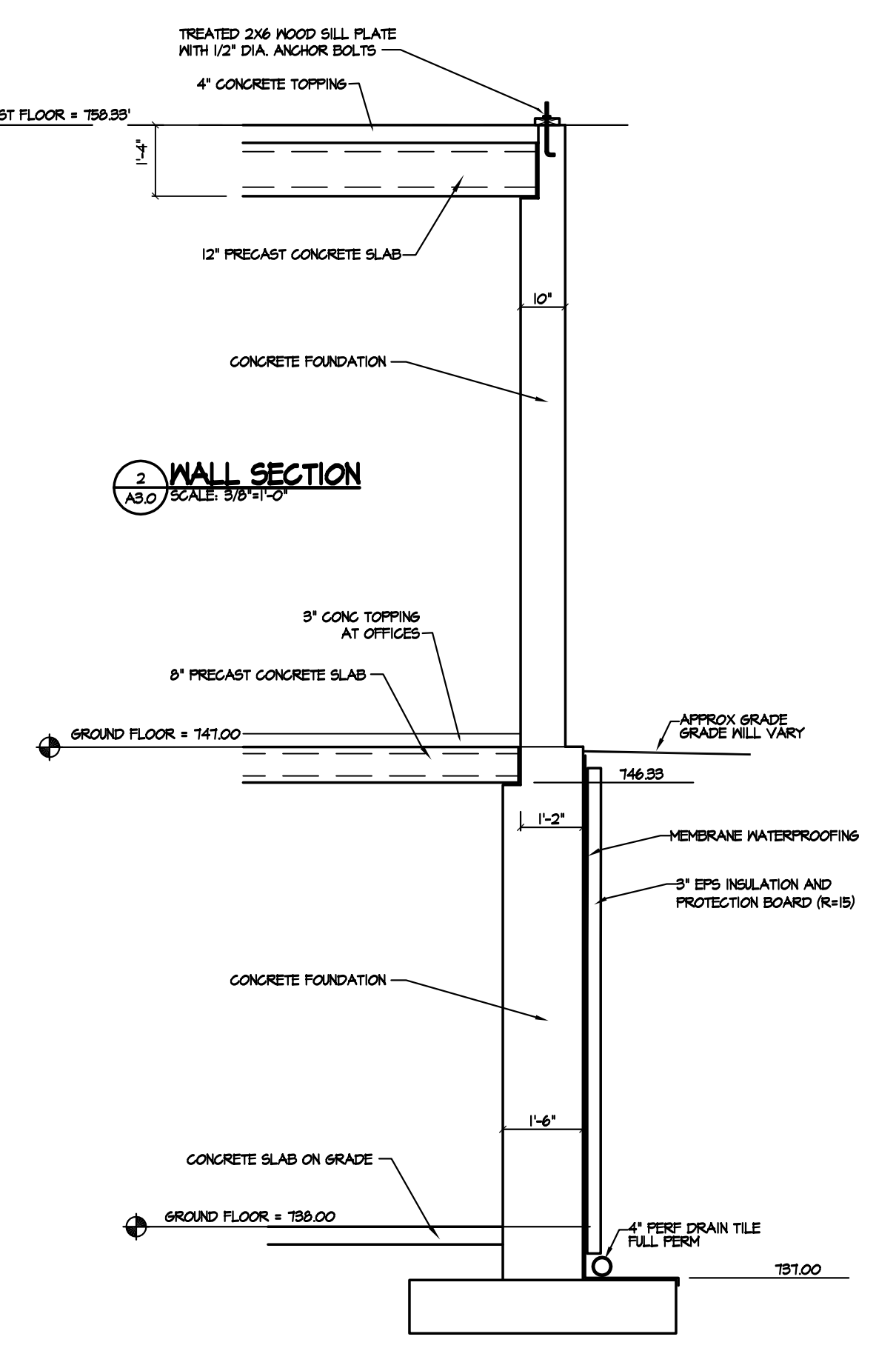
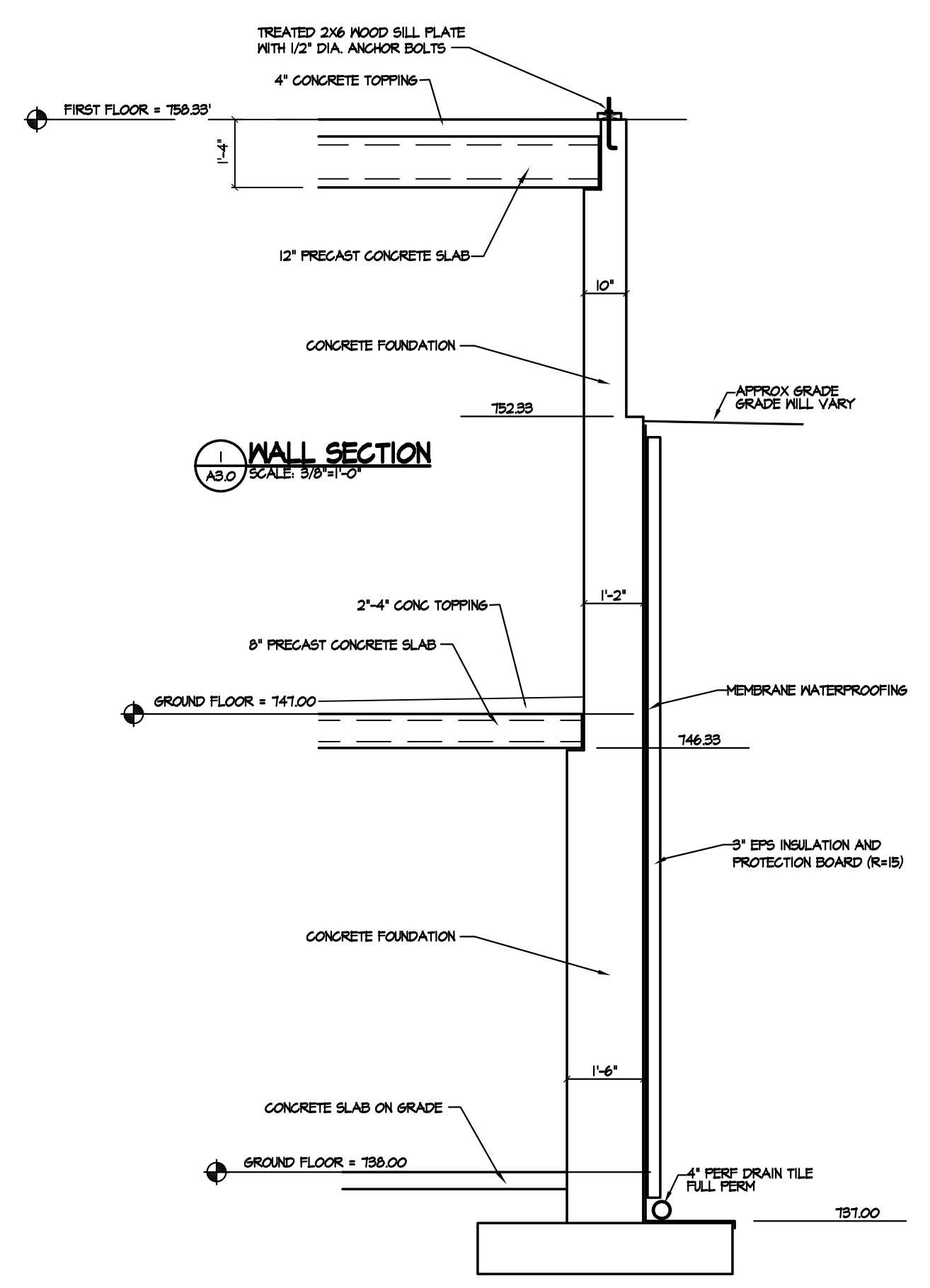
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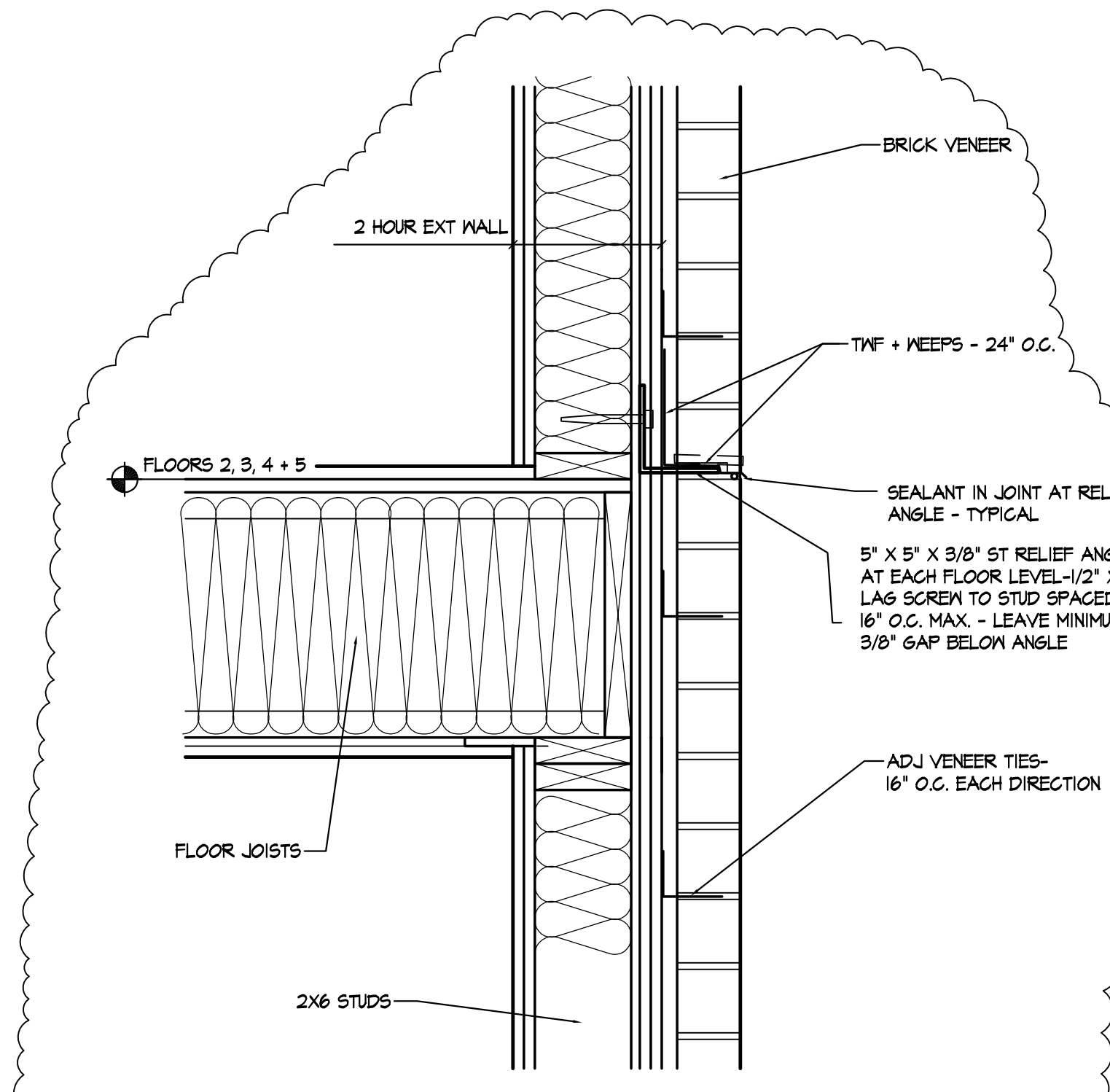
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 WWW.SHRINAY.COM  
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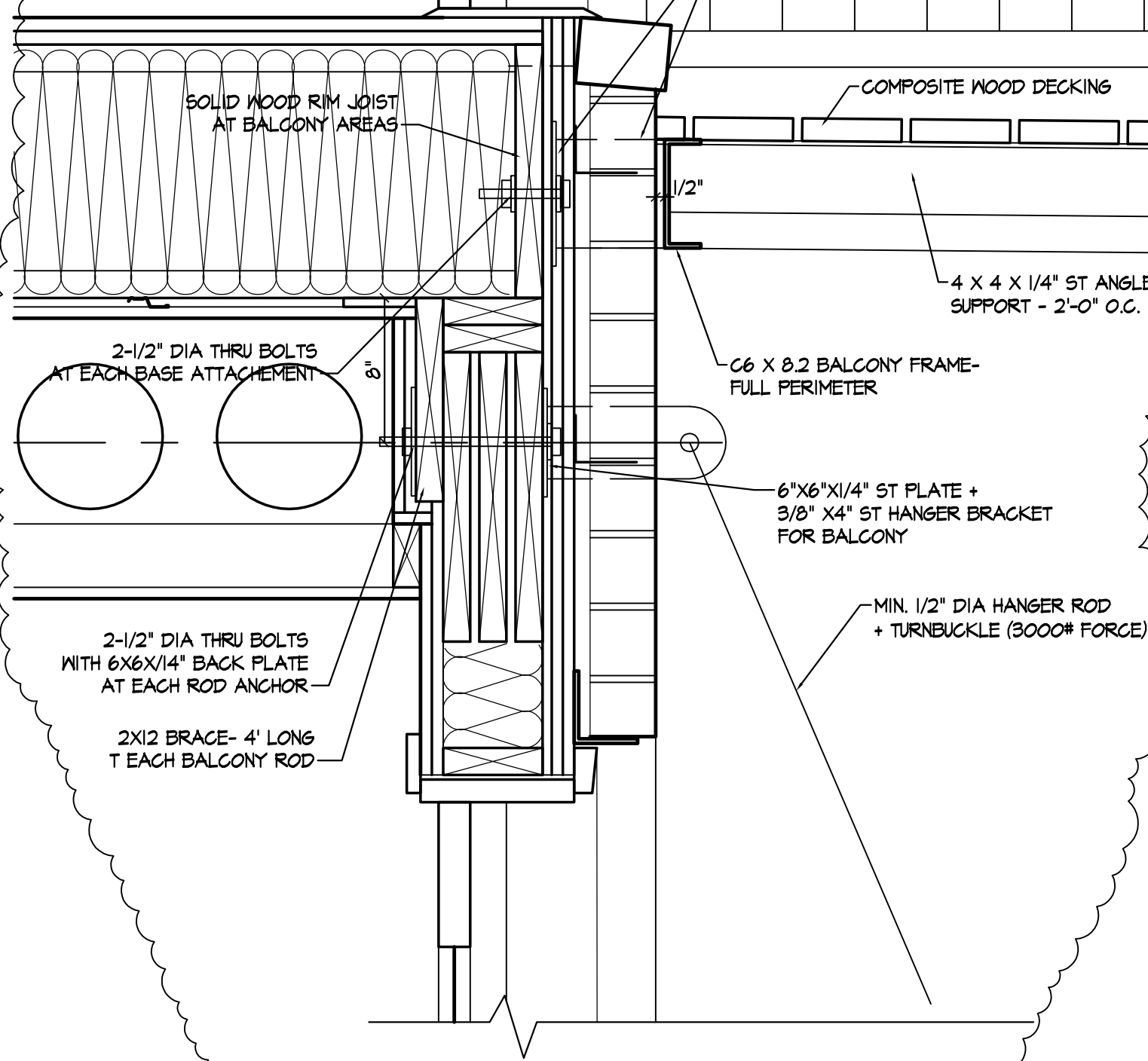
SHEET  
**A3.0**  
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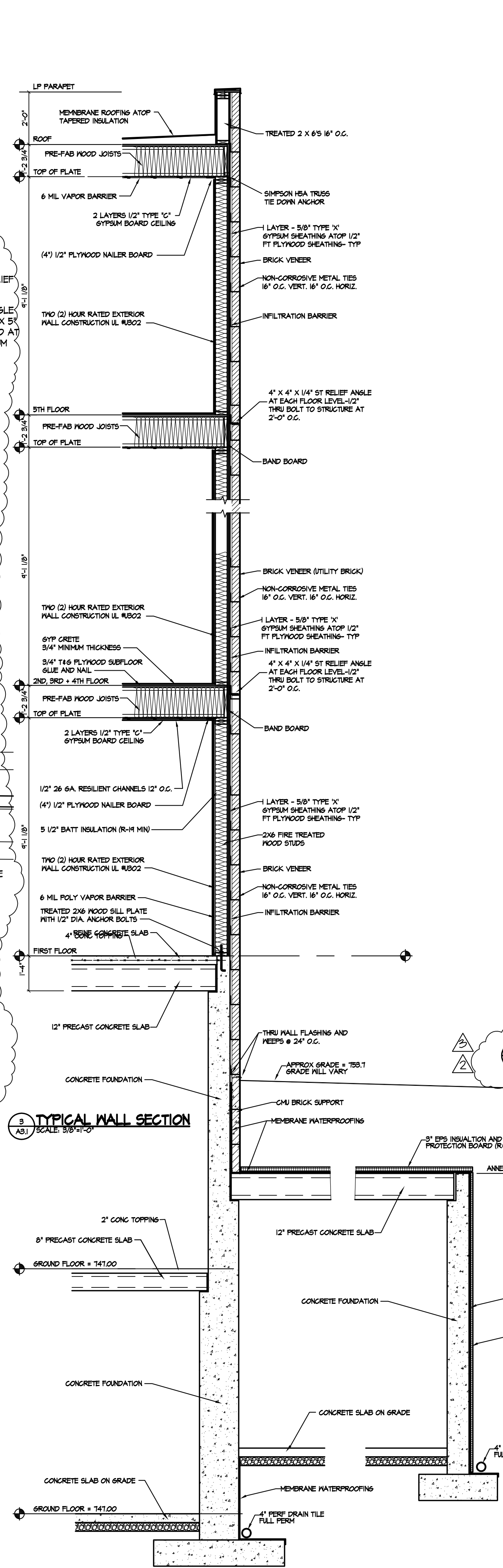
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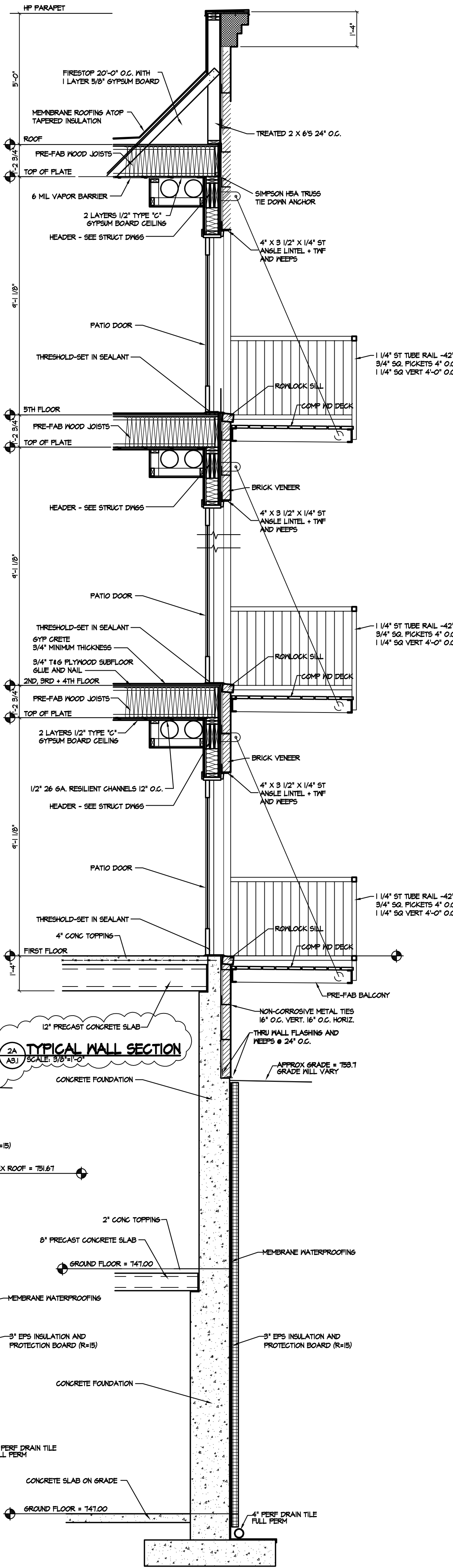
**4 DETAIL AT RELIEF ANGLE**  
 A3.1 SCALE: 1/2"=1'-0"



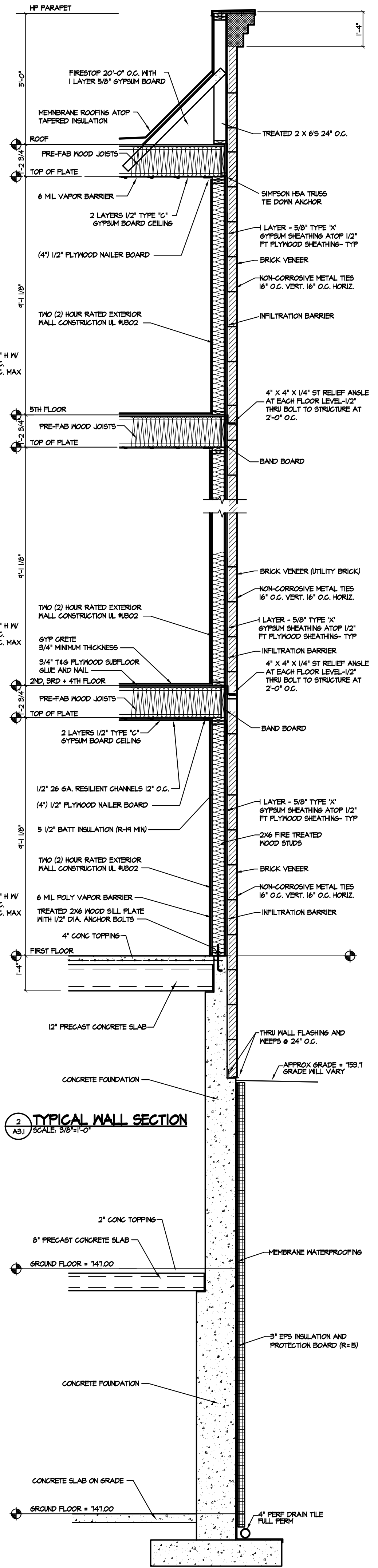
**5 BALCONY ATTACHMENT DETAIL**  
 A3.1 SCALE: 1/2"=1'-0"



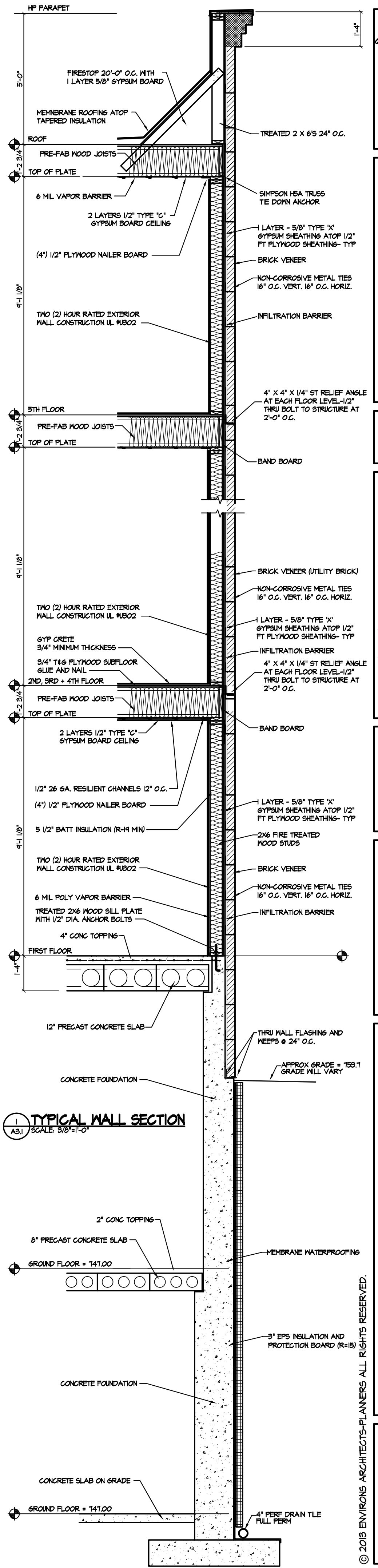
**3 TYPICAL WALL SECTION**  
 A3.1 SCALE: 3/8"=1'-0"



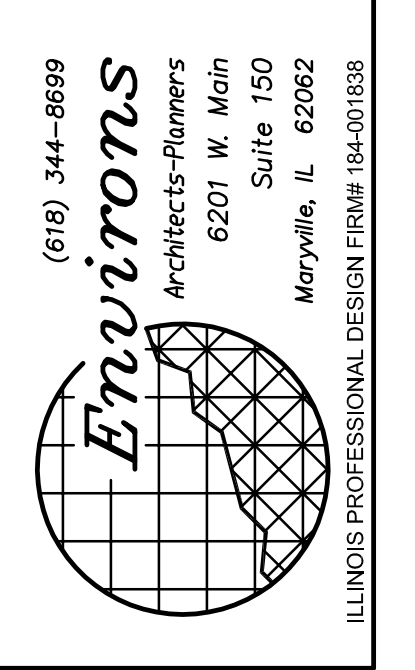
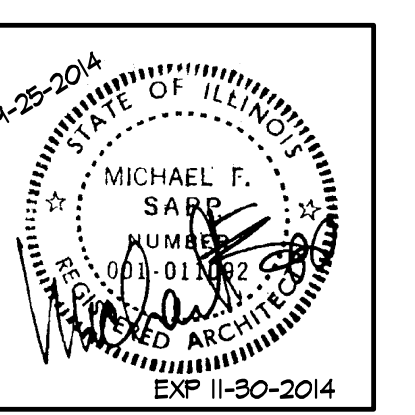
**2 TYPICAL WALL SECTION**  
 A3.1 SCALE: 3/8"=1'-0"



**1 TYPICAL WALL SECTION**  
 A3.1 SCALE: 3/8"=1'-0"



**4 TYPICAL WALL SECTION**  
 A3.1 SCALE: 3/8"=1'-0"



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**13022**

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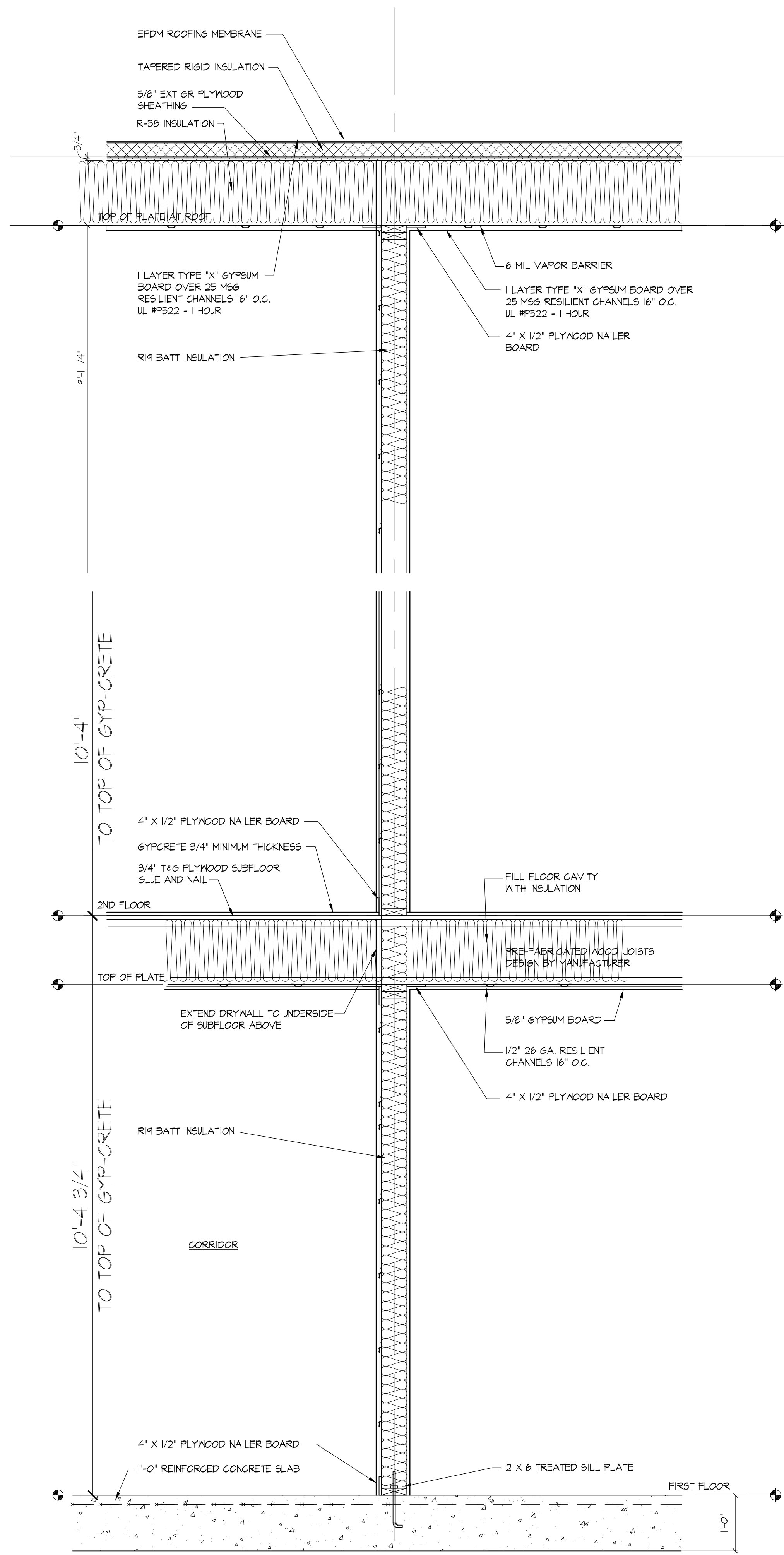
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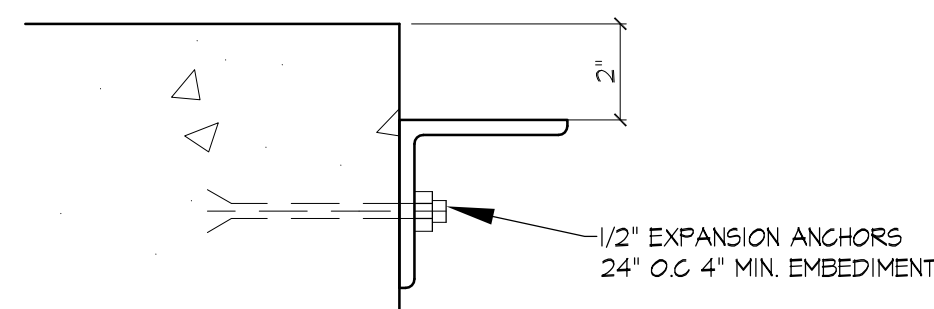
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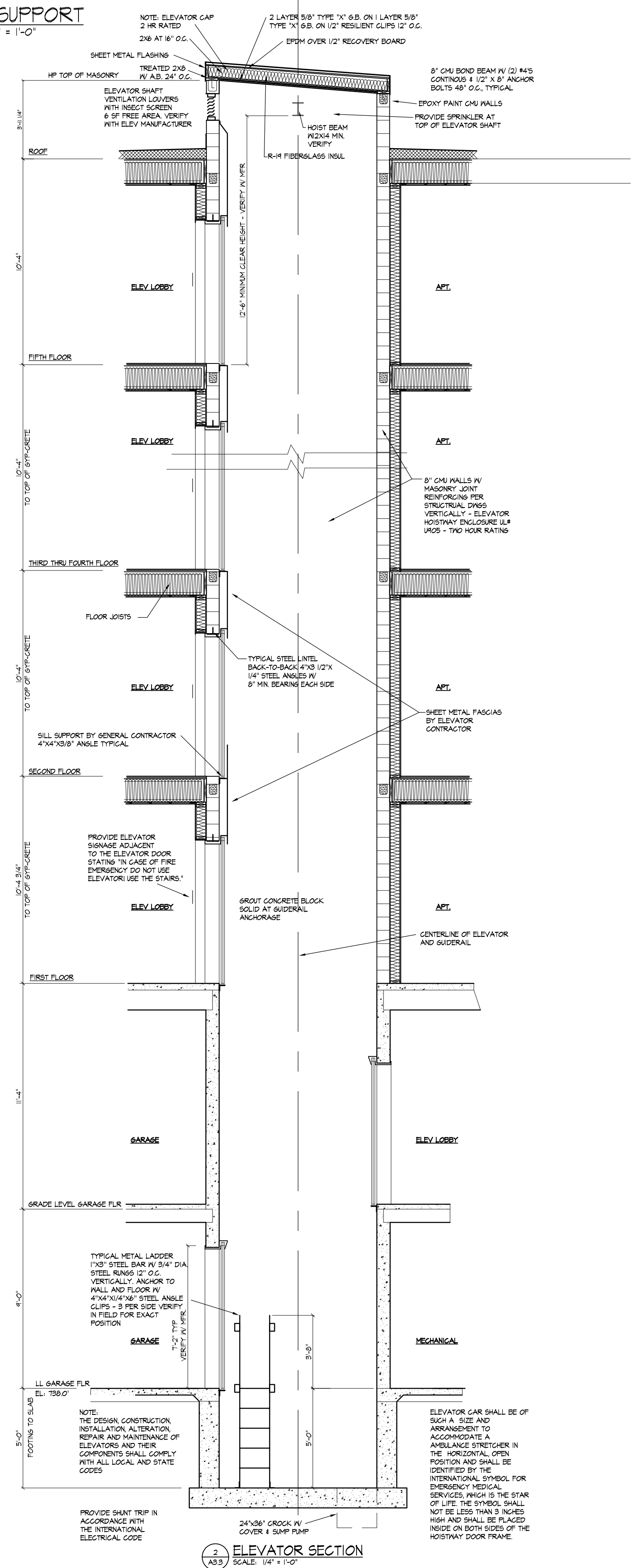
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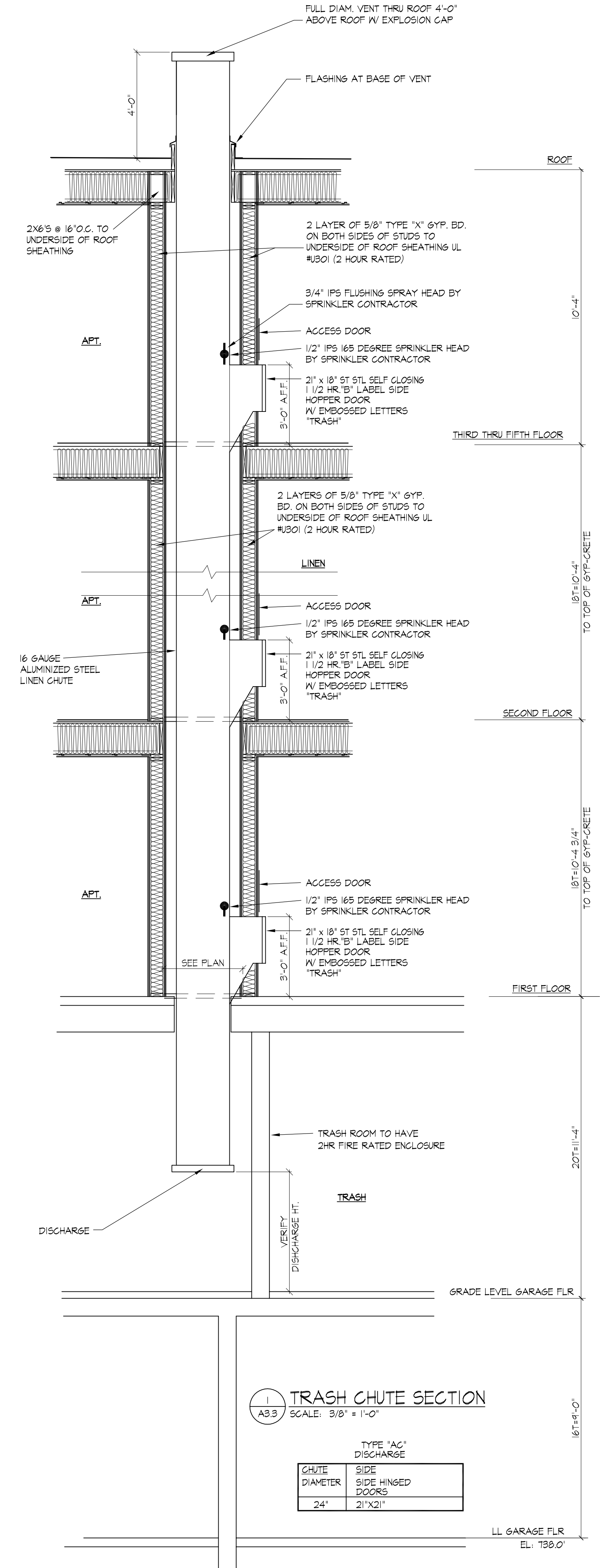
3 CORRIDOR WALL SECTION  
SCALE: 3/4" = 1'-0"



4 SILL SUPPORT  
SCALE: 3" = 1'-0"

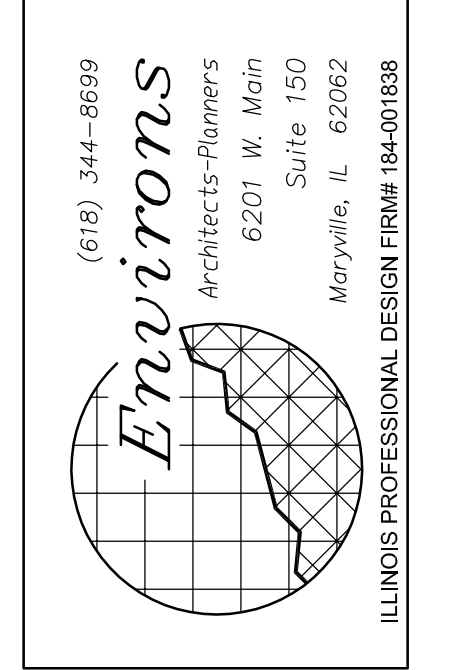
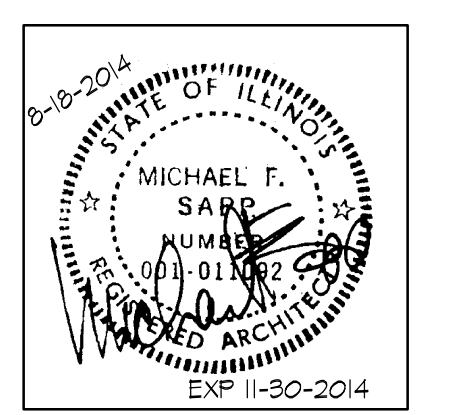


2 ELEVATOR SECTION  
SCALE: 1/4" = 1'-0"



1 TRASH CHUTE SECTION  
SCALE: 3/8" = 1'-0"

TYPE "AC" DISCHARGE	
CHUTE DIAMETER	SIDE HINGED DOORS
24"	21"X21"



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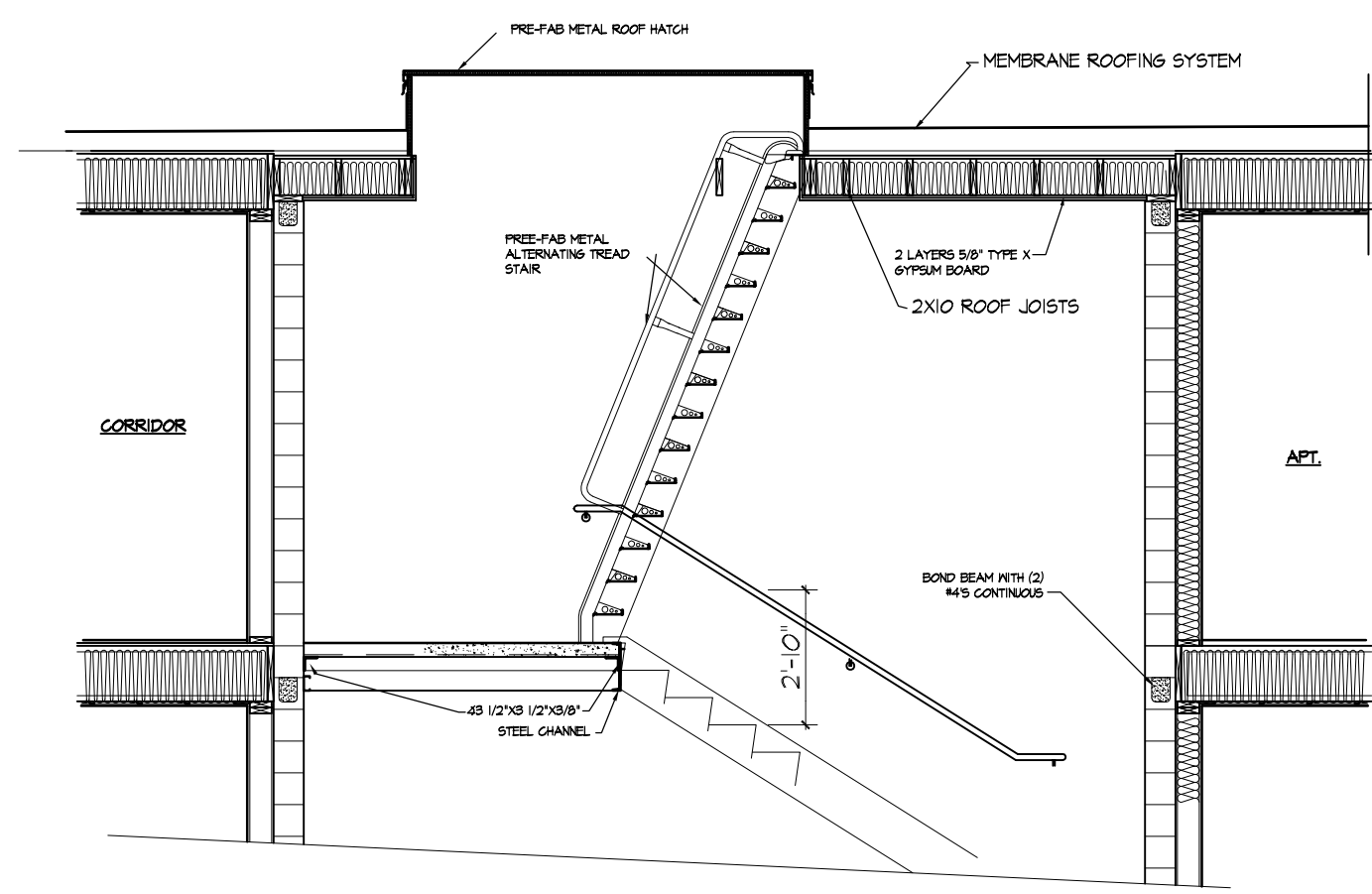
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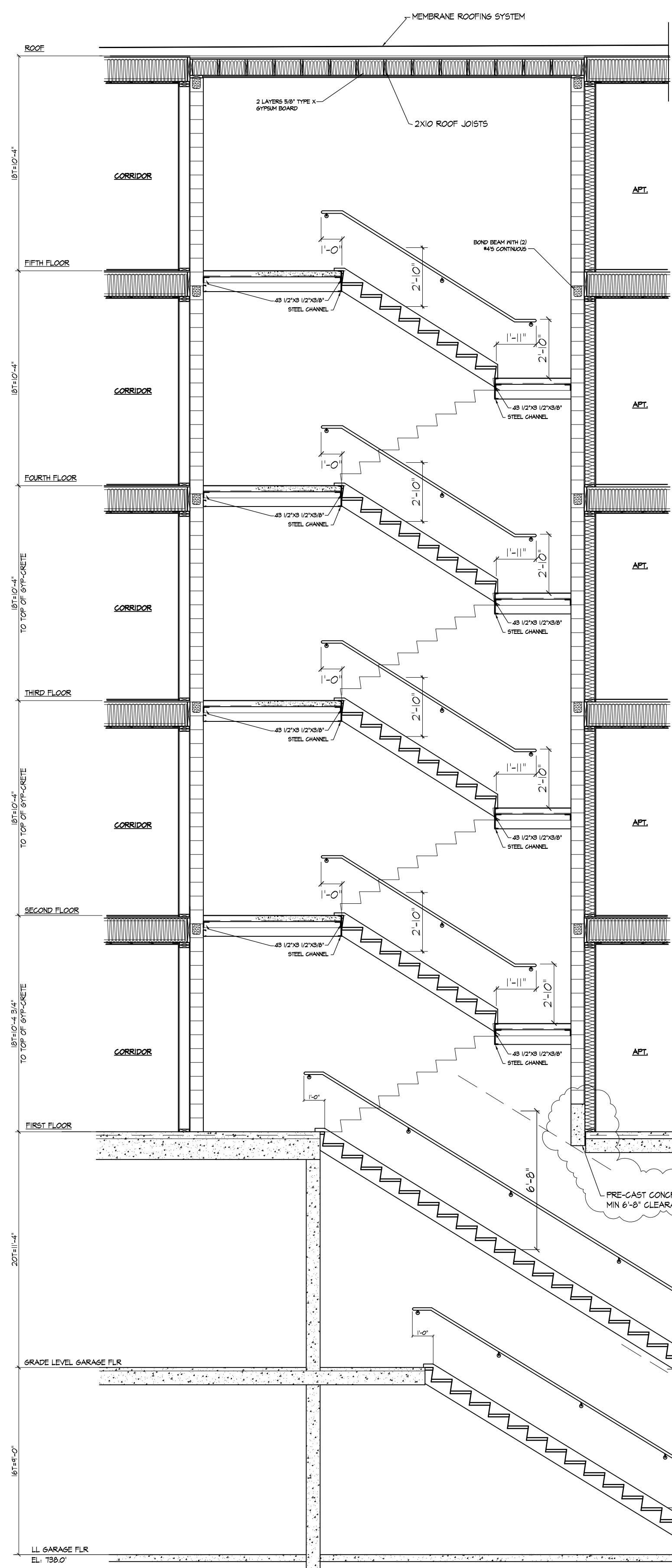
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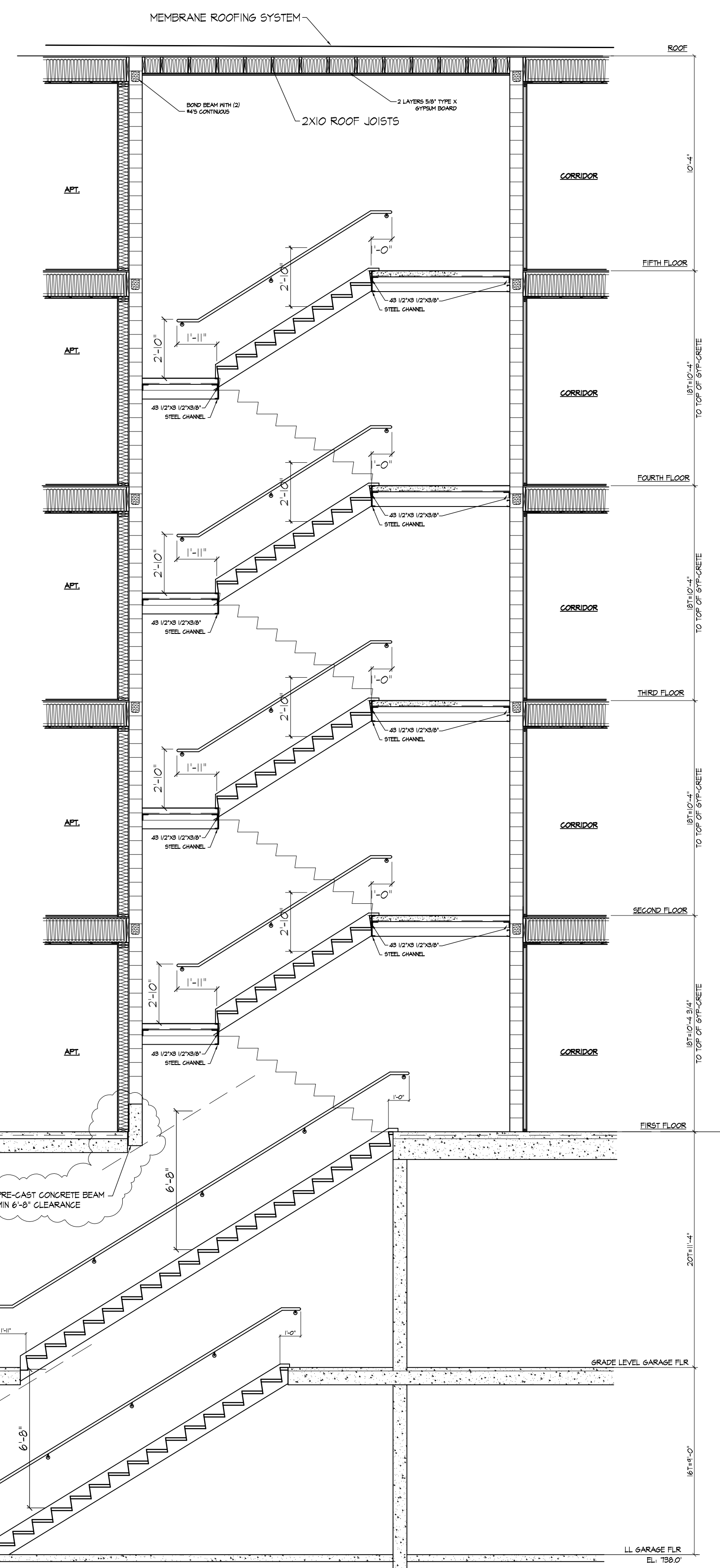
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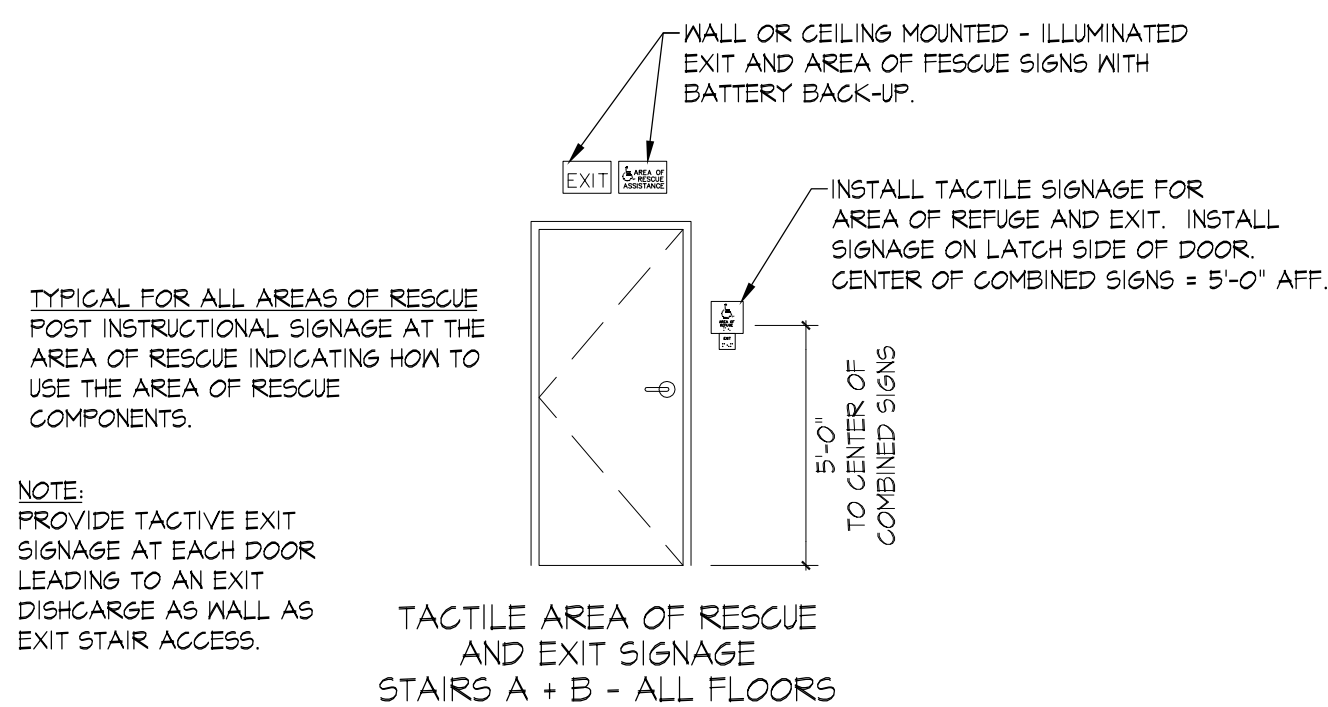
SECTION - STAIR 'B' - ROOF ACCESS  
SCALE: 1/4" = 1'-0"



SECTION - STAIR 'B'  
SCALE: 1/4" = 1'-0"



SECTION - STAIR 'A'  
SCALE: 1/4" = 1'-0"



TYPICAL FOR ALL AREAS OF RESCUE  
POST INSTRUCTIONAL SIGNAGE AT THE  
AREA OF RESCUE INDICATING HOW TO  
USE THE AREA OF RESCUE  
COMPONENTS.

NOTE:  
PROVIDE TACTILE EXIT  
SIGNAGE AT EACH DOOR  
LEADING TO AN EXIT  
DISCHARGE AS WELL AS  
EXIT STAIR ACCESS.

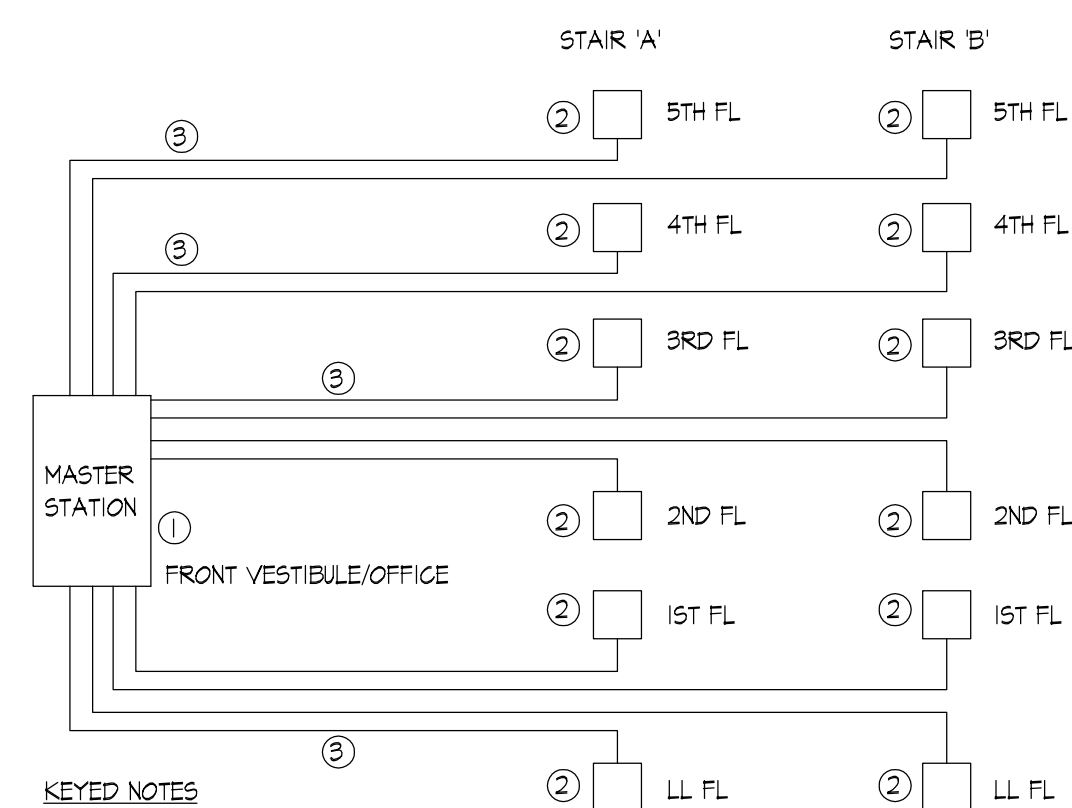
TACTILE AREA OF RESCUE  
AND EXIT SIGNAGE  
STAIRS A + B - ALL FLOORS

EXIT/ AREA OF RESCUE SIGNAGE  
SCALE: 1/4" = 1'-0"

NOTE:  
ALL ACCESSIBLE SIGNAGE TO COMPLY WITH  
REQUIREMENTS FOR CHARACTER PROPORTION,  
HEIGHT, RAISED AND BRAILED CHARACTERS AND  
PICTORIAL SYMBOLS SIGNS, FINISH AND  
CONTRAST AND MOUNTING HEIGHT/LOCATIONS.

NOTE:  
PROVIDE SIGNAGE AT EACH FLOOR LANDING IN THE STAIR ENCLOSURE WHICH  
DESIGNATES THE FLOOR LEVEL, THE TERMINUS AT THE TOP AND BOTTOM OF  
THE STAIR ENCLOSURE AND THE IDENTIFICATION OF THE STAIR. THE SIGNAGE  
SHALL INDICATE THE STORY OF AND THE DIRECTION TO THE EXIT DISCHARGE.  
SIGN SHALL BE LOCATED 5'-0" AFF AT LANDING VISIBLE WHEN DOOR IS OPEN  
OR CLOSED.

AREA OF RESCUE  
TWO-WAY COMMUNICATION SYSTEM

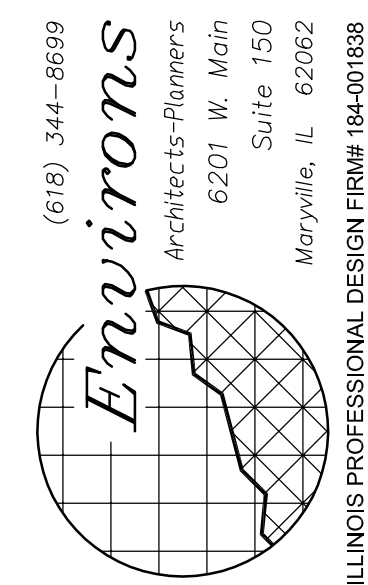
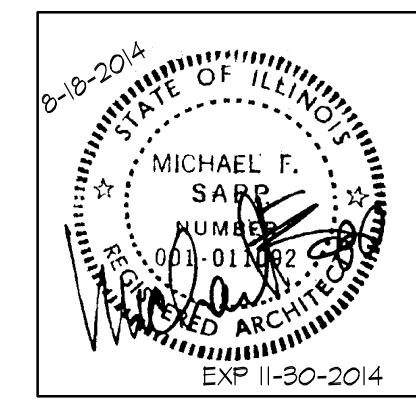


KEYED NOTES

- 1 MASTER STATION: CORNELL 4200 RESCUE ASSISTANCE SYSTEM OR EQUAL PROVIDE B5248 POWER SUPPLY WITH BATTERY BACK-UP
- 2 REMOTE CALL STATION: CORNELL 4201B. FLUSH MOUNTED
- 3 WIRING AS REQUIRED BY MANUFACTURER - INSTALL IN MIN 1/2" EMT.

NOTES:  
E.G. TO FURNISH AND INSTALL ALL COMPONENTS, WIRING, SOFTWARE,  
PROGRAMMING, ETC FOR A COMPLETE AND OPERATIONAL SYSTEM.

PROVIDE CORNELL \*SN-B\* SERIES OR EQUAL ILLUMINATED \*AREA OF RESCUE  
ASSISTANCE\* SIGNS ABOVE STAIR DOORS AT EACH FLOOR LEVEL. POWER  
SHALL BE FROM UNSWITCHED LEG OF NEAREST LIGHTING CIRCUIT.



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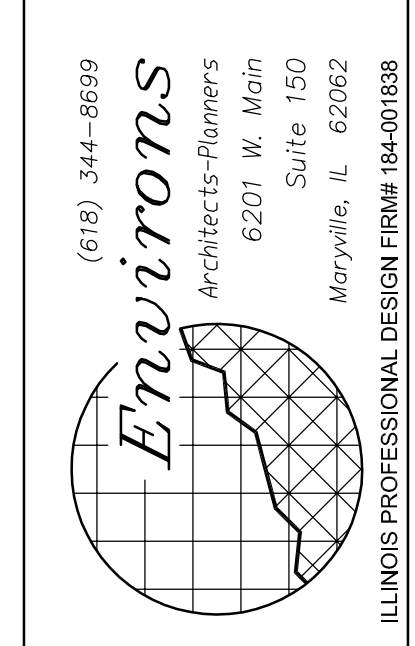
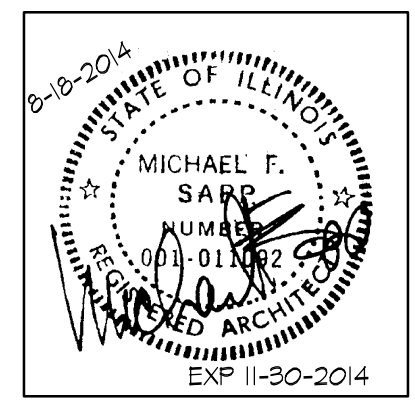
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STAIR SECTION DETAILS





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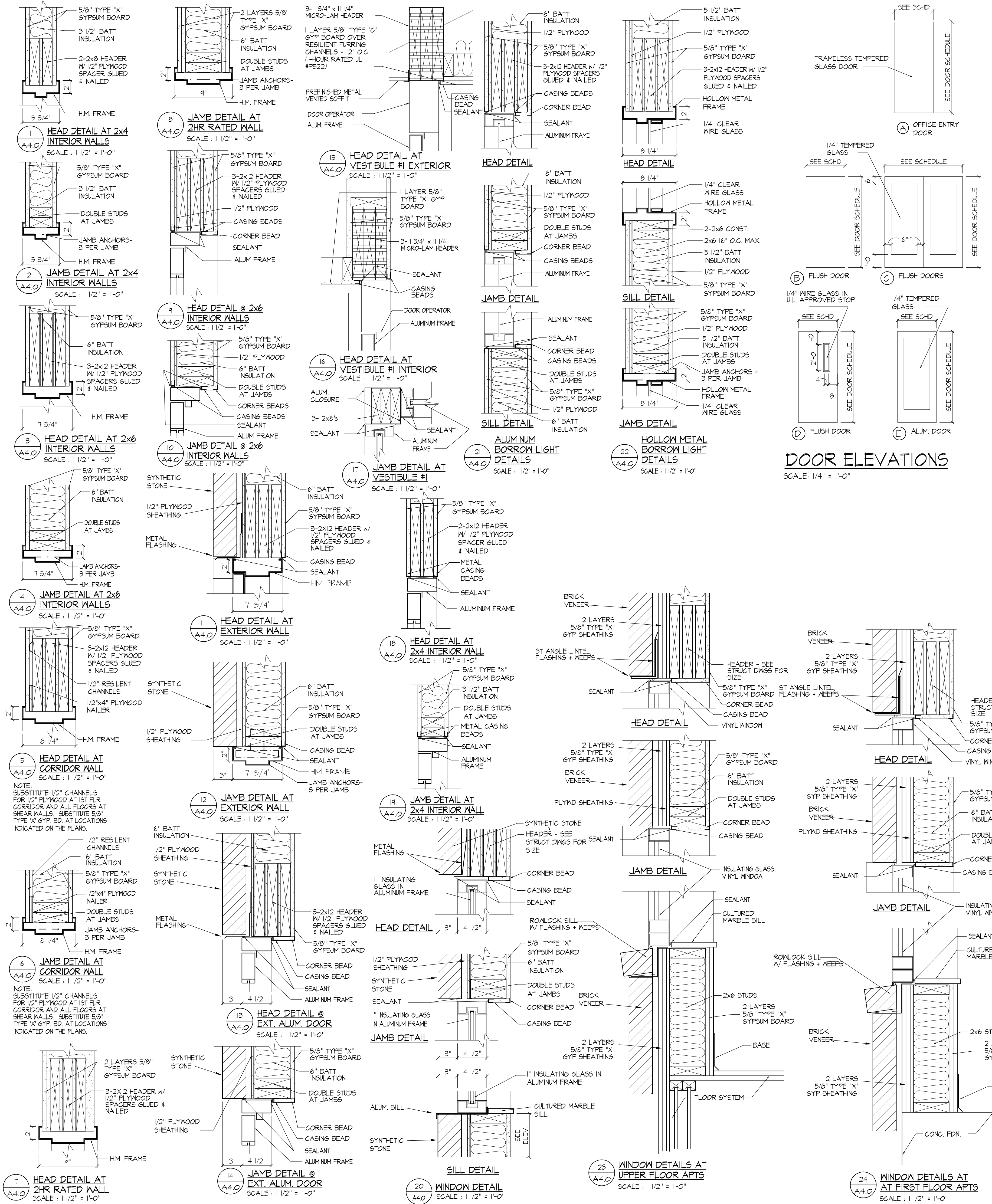
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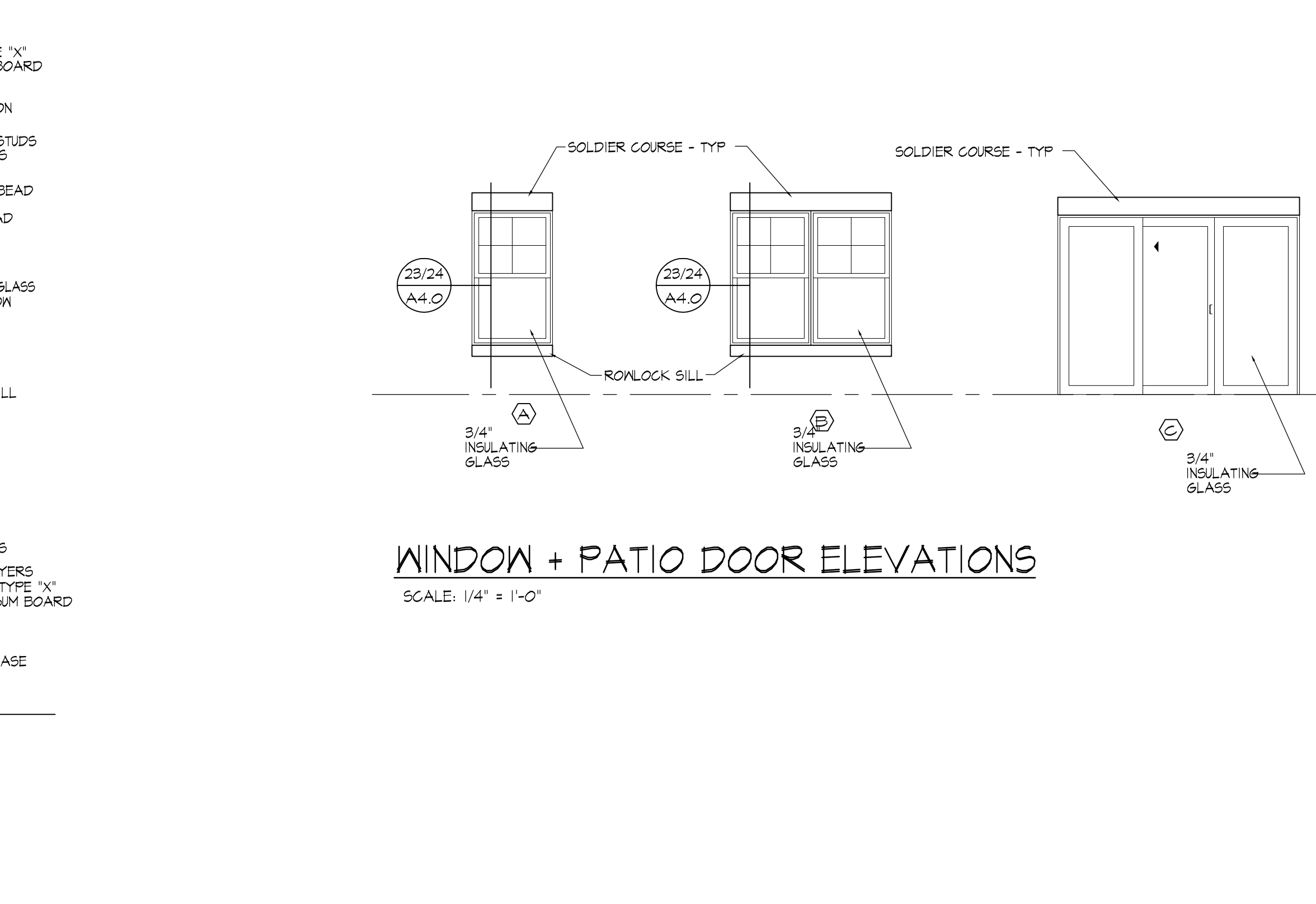


### DOOR SCHEDULE

DOOR NUMBER	LOCATION	DOOR TYPE	DOOR SIZE	DOOR THICK	DOOR MAT	FRAME MAT	FIRE RATING	HEAD DETAIL	JAMB DETAIL	HDW SET	REMARKS
01	STAIR INTERIOR-GARAGE	D	3'-0"X6'-8"	1 3/4"	HM	HM	90 MIN	7/A4.0	8/A4.0	1	
02	STAIR INTERIOR	B	3'-0"X6'-8"	1 3/4"	SCVD	HM	90 MIN	7/A4.0	8/A4.0	1	
03	TRASH CHUTE	B	3'-0"X6'-8"	1 3/4"	SCVD	HM	90 MIN	5/A4.0	6/A4.0	3	
04	MECHANICAL	B	3'-0"X7'-0"	1 3/4"	HM	HM	45 MIN	5/A4.0	6/A4.0	3	
05	MECHANICAL	B	PR 3'-0"X7'-0"	1 3/4"	HM	HM	45 MIN	5/A4.0	6/A4.0	3	
06	STAIR EXTERIOR	B	3'-0"X7'-0"	1 3/4"	ALUM	ALUM.	---	18/A4.0	14/A4.0	2	
07	VESTIBULE - EXTERIOR	E	3'-0"X7'-0"	1 3/4"	ALUM	ALUM.	---	18/A4.0	14/A4.0	4	
08	VESTIBULE - INTERIOR	E	3'-0"X7'-0"	1 3/4"	ALUM	ALUM.	---	18/A4.0	14/A4.0	5	
09	OFFICE	A	3'-0"X6'-8"	1 3/4"	GLASS	---	---	---	---	6	FRAMELESS GLASS DOOR
10	TOILET	B	3'-0"X7'-0"	1 3/4"	SCVD	HM	---	1/A4.0	2/A4.0	7	
11	ELEVATOR EQUIPMENT	B	3'-0"X6'-8"	1 3/4"	SCVD	HM	90 MIN	7/A4.0	8/A4.0	3	
12	ELECTRICAL ROOM	B	3'-0"X6'-8"	1 3/4"	SCVD	HM	90 MIN	7/A4.0	8/A4.0	1	
13	CLOSET	B	3'-0"X7'-0"	1 3/4"	SCVD	HM	---	1/A4.0	2/A4.0	8	

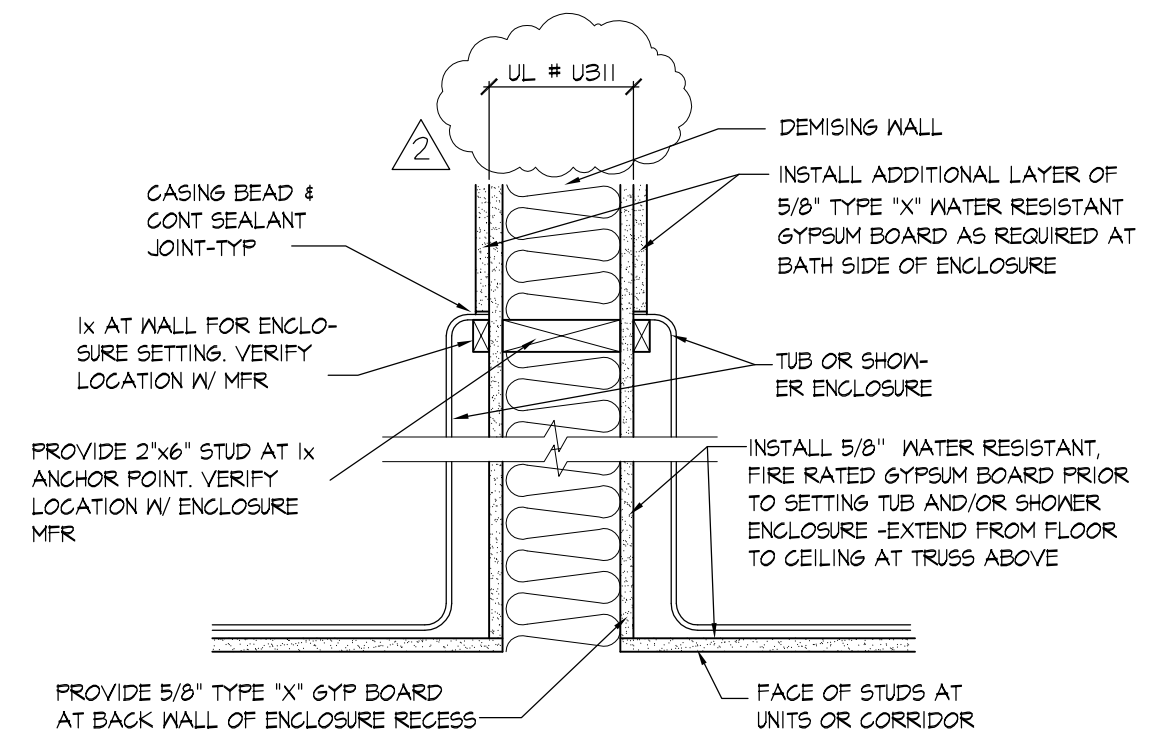
### DOOR ELEVATIONS

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

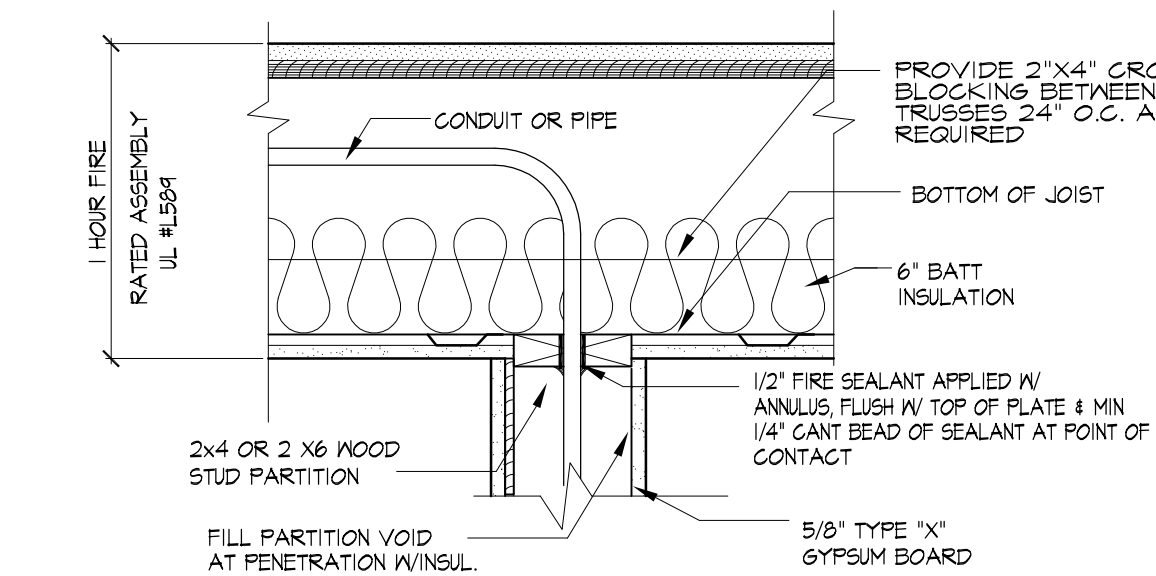


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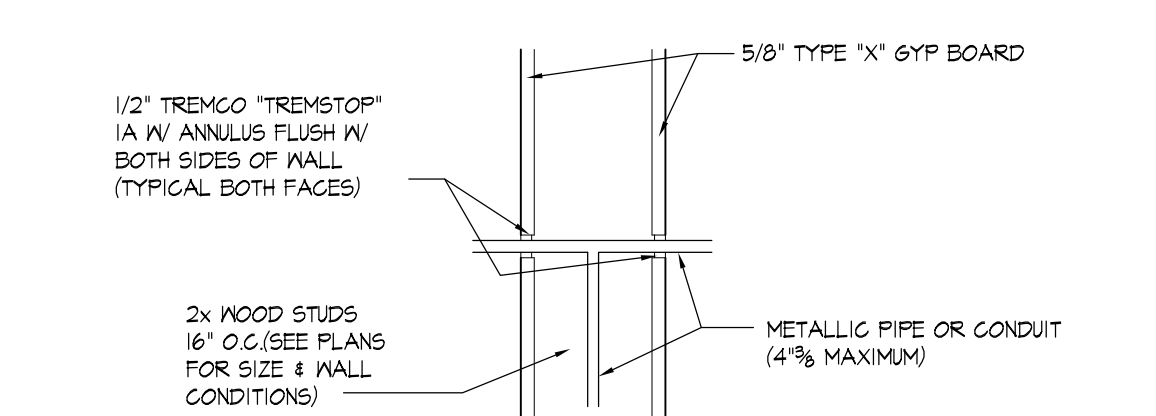




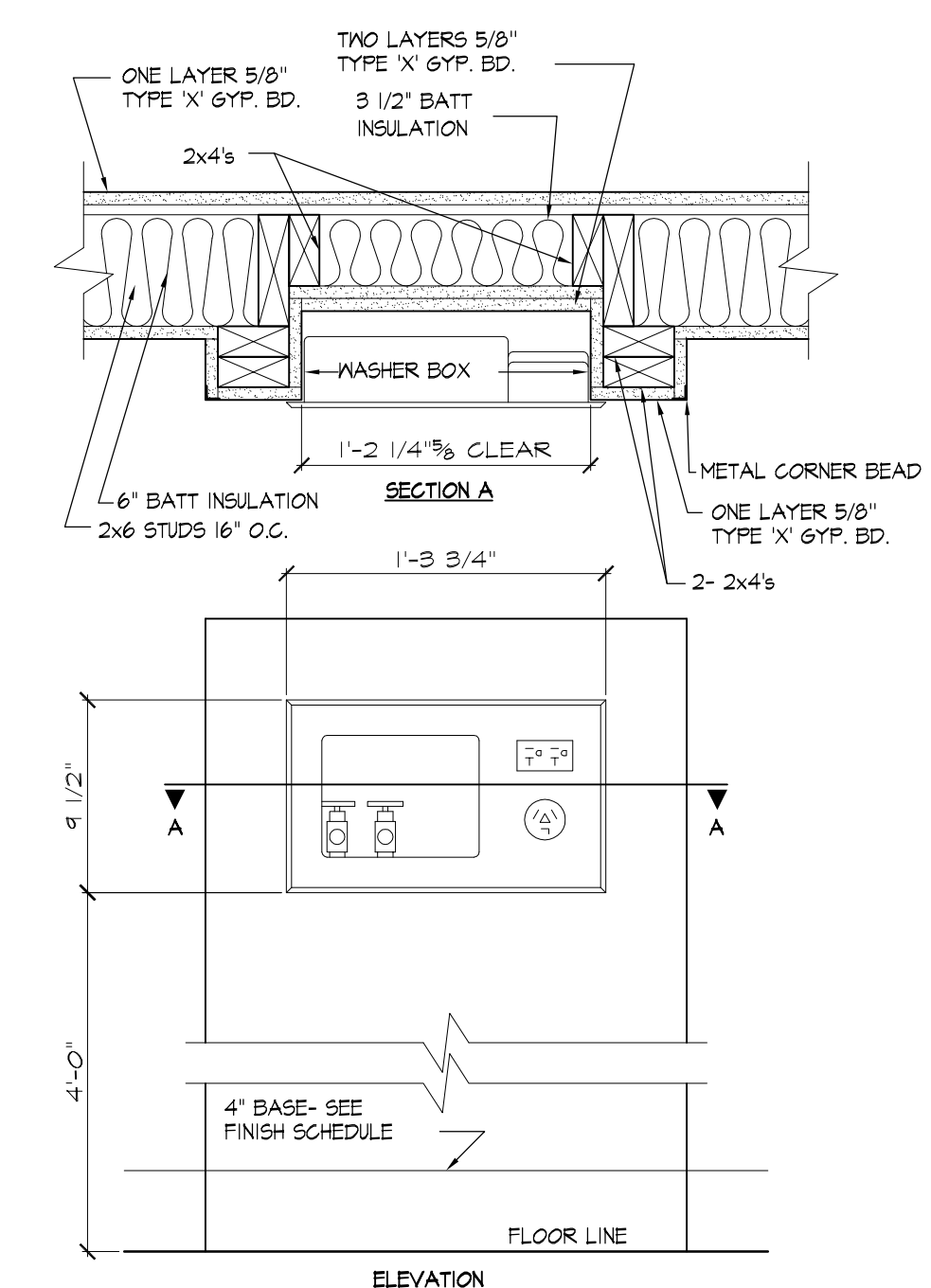
1 PLAN DETAIL AT FIRE RATED WALL FOR TUB OR SHOWER ENCLOSURES  
SCALE: 1/2" = 1'-0"



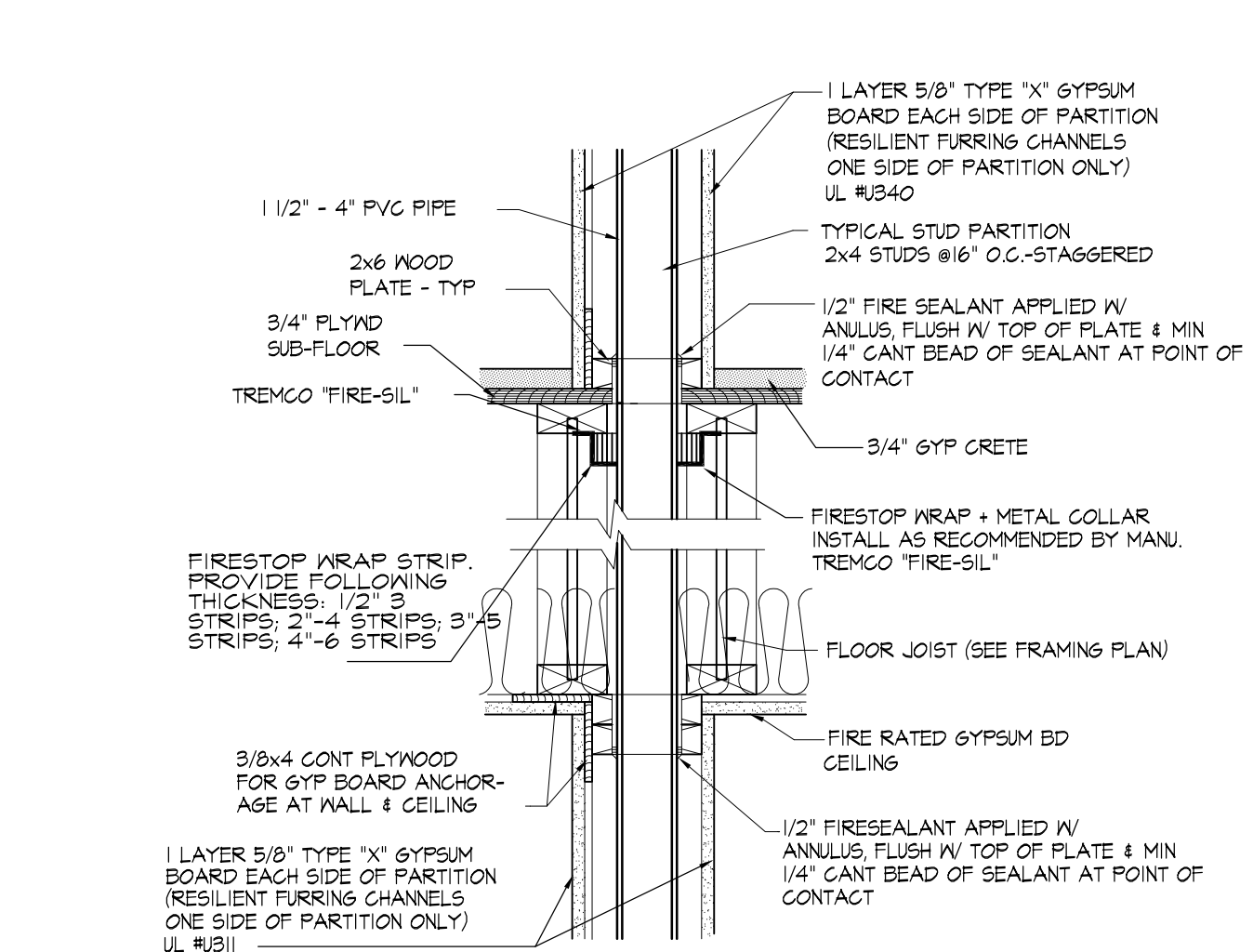
6 SINGLE PENETRATION AT INTERIOR PARTITIONS (UL F-C-1013)  
SCALE: 1/2" = 1'-0"



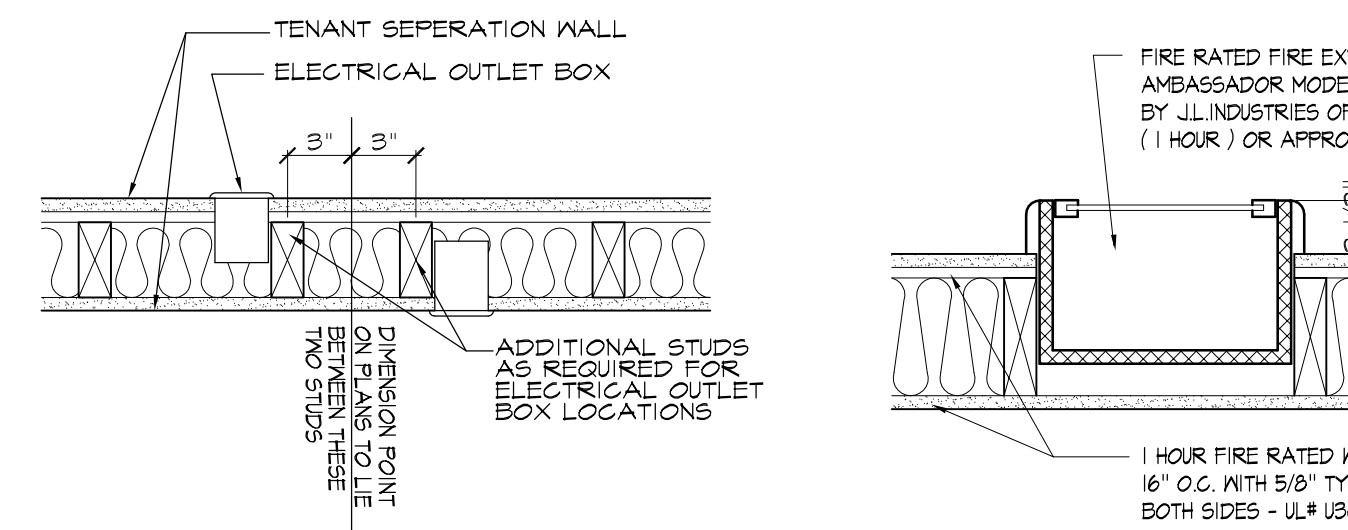
10 DETAIL AT METALLIC PIPE PENETRATION OF 1 HOUR WALL  
SCALE: 1/2" = 1'-0"



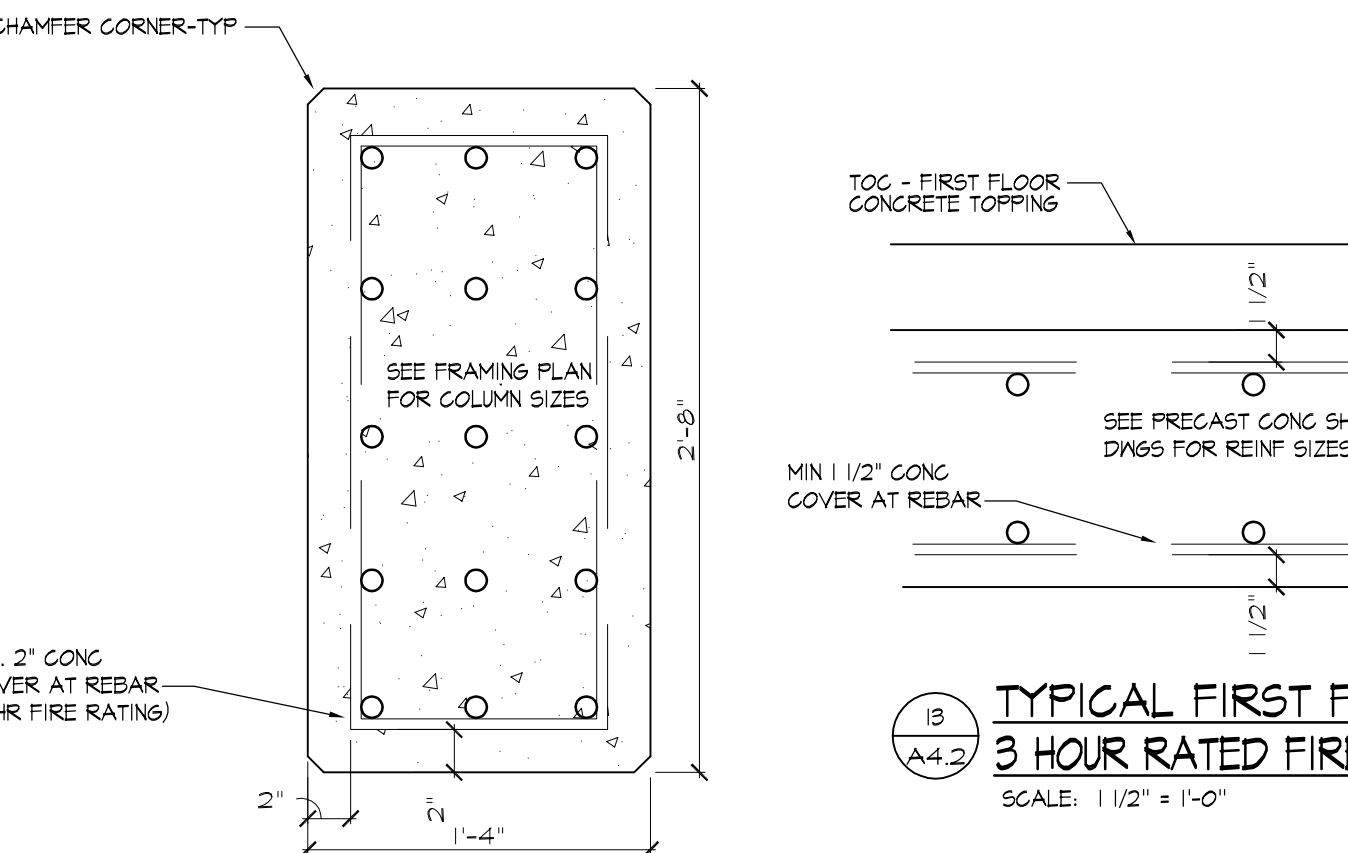
11 LAUNDRY BOX ENCLOSURE IN RATED WALL ASSEMBLY -  
SCALE: 1/2" = 1'-0"



2 1 HOUR PVC PIPE (4" OR LESS) PENETRATION (UL #F-C-2034)  
SCALE: 1/2" = 1'-0"



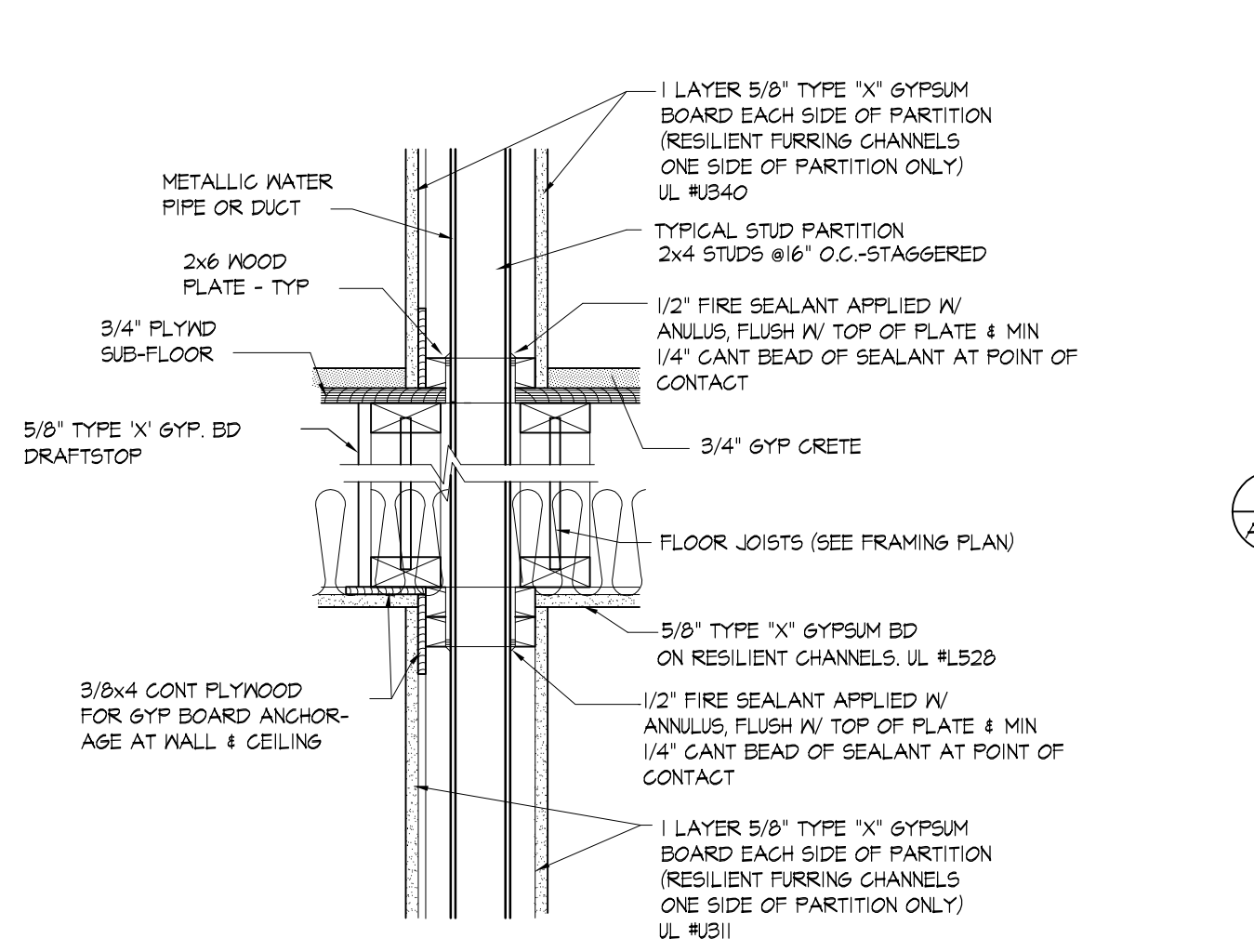
7 BACK TO BACK OUTLETS AT UNIT SEPERATION WALL  
SCALE: 1/2" = 1'-0"



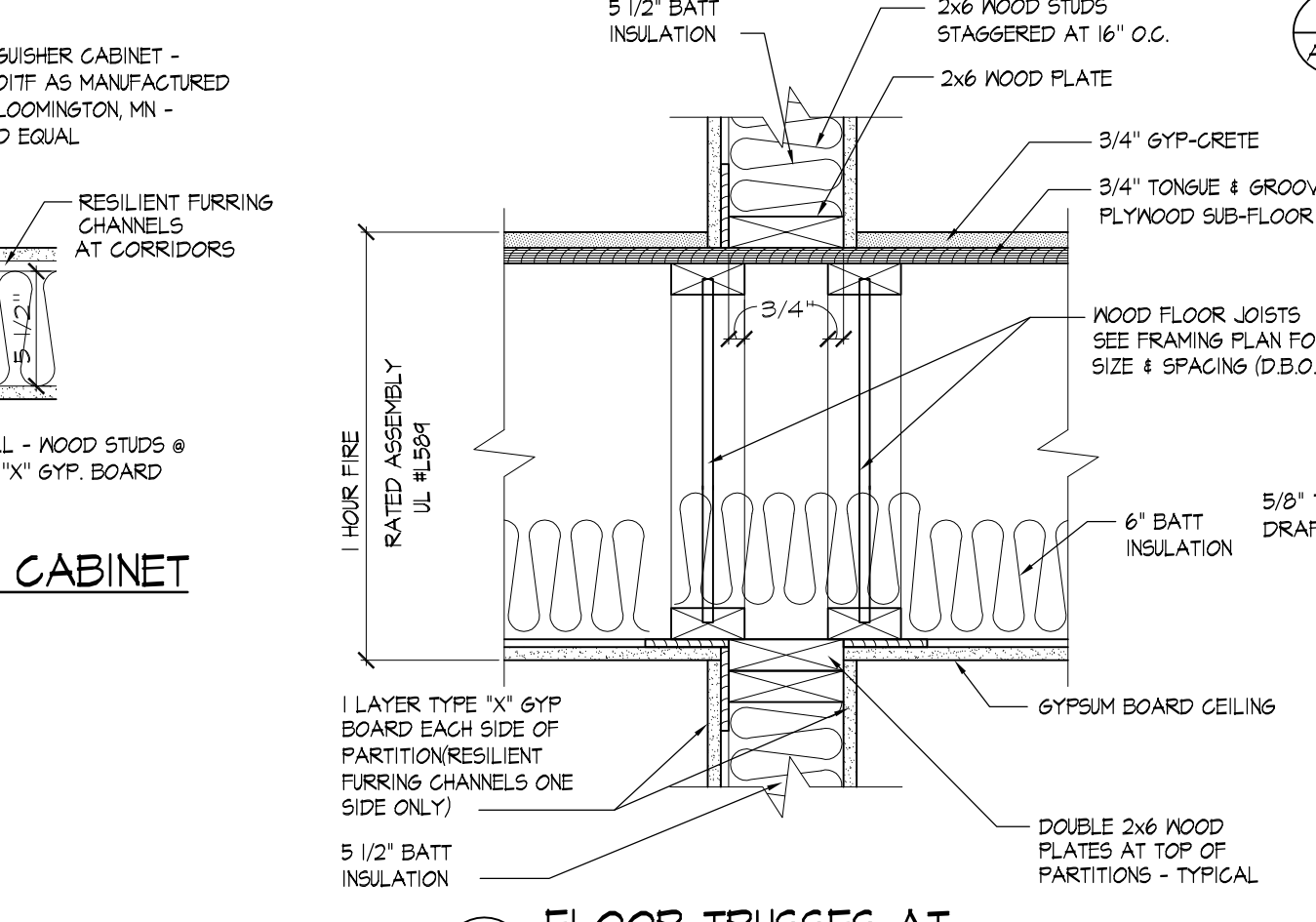
18 TYPICAL FIRST FLOOR SLAB DETAIL - 3 HOUR RATED FIREPROOFING  
SCALE: 1/2" = 1'-0"



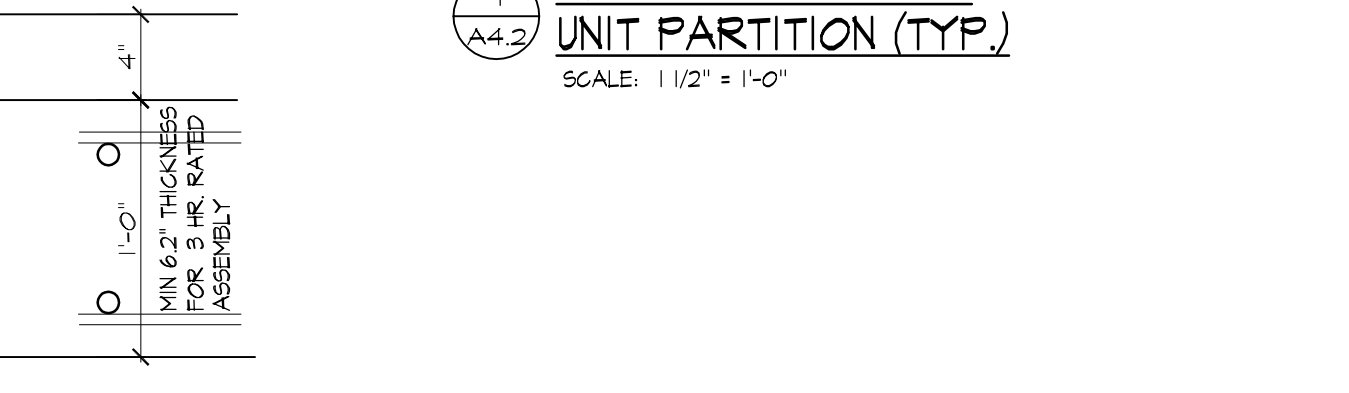
12 TYPICAL CONG COLUMN DETAIL - 1 HOUR RATED FIREPROOFING  
SCALE: 1/2" = 1'-0"



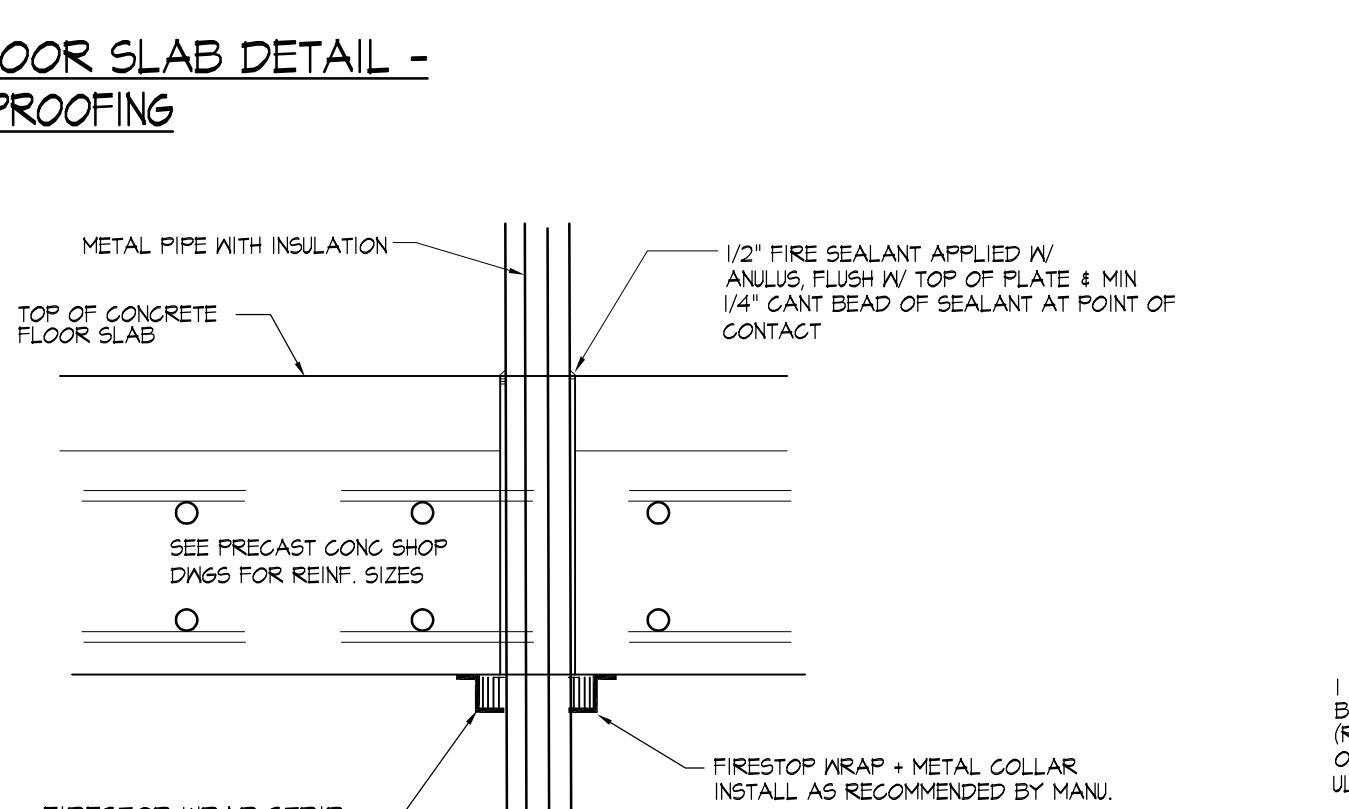
3 1 HOUR METALLIC WATER PIPE OR DUCT PENETRATION (UL #F-C-1013)  
SCALE: 1/2" = 1'-0"



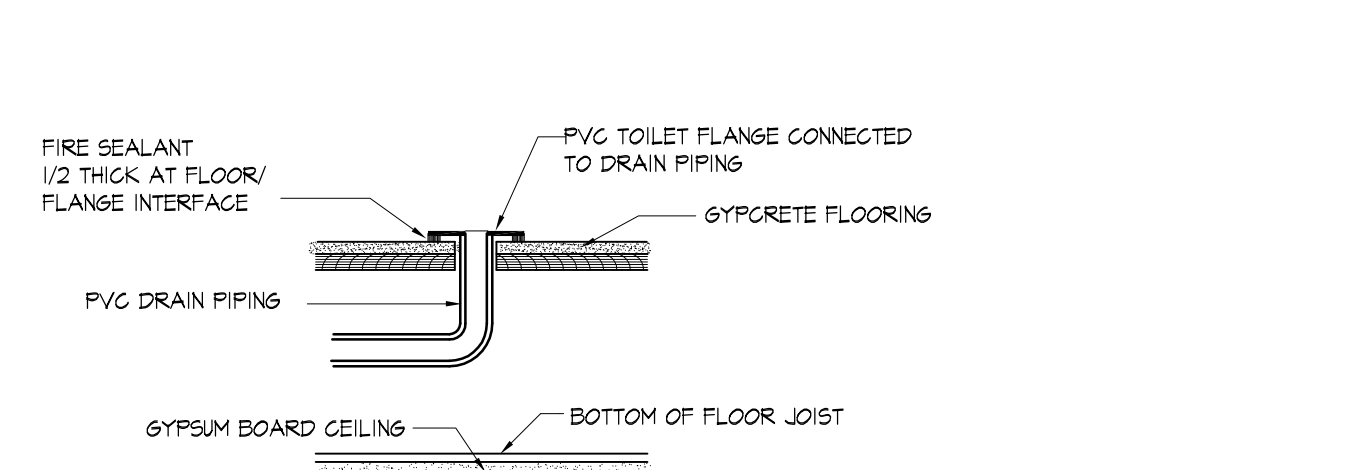
8 FIRE EXTINGUISHER CABINET  
SCALE: 1/2" = 1'-0"



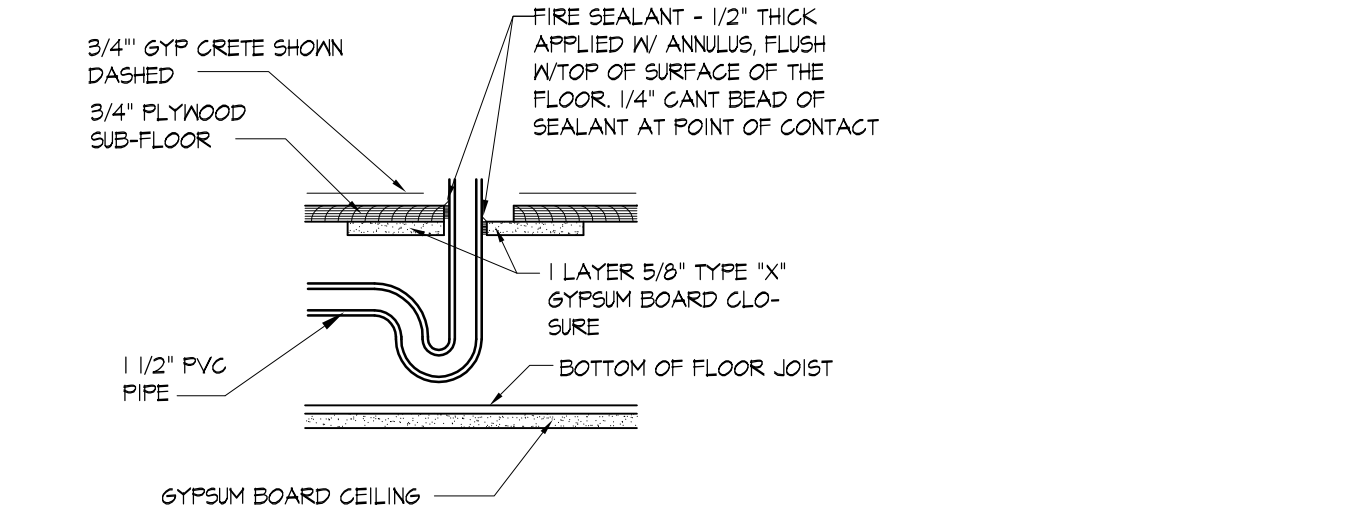
9 FLOOR TRUSSES AT UNIT PARTITION (TYP.)  
SCALE: 1/2" = 1'-0"



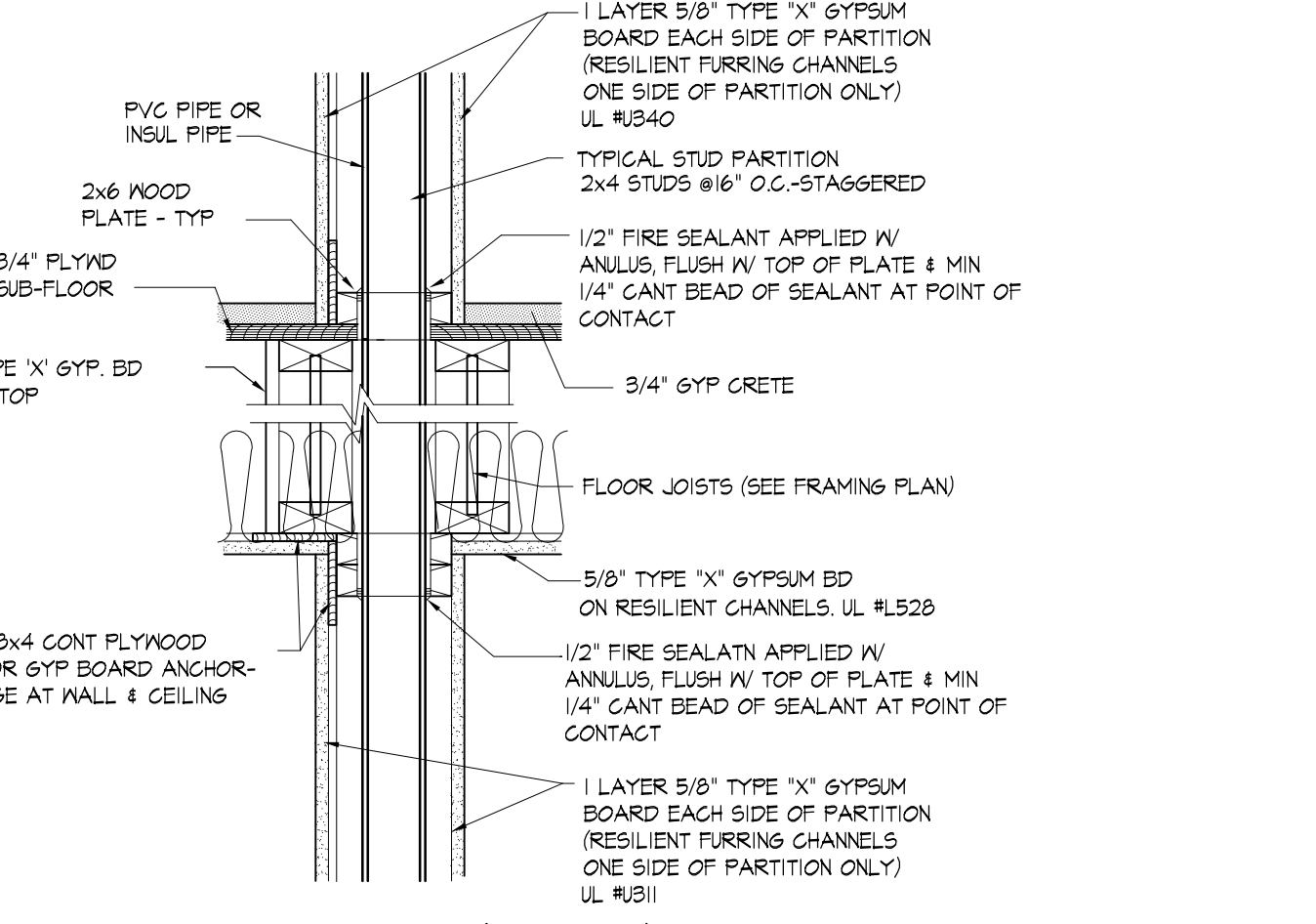
16 3 HOUR METAL PIPE WITH INSULATION PENETRATION (UL #CAJ2030)  
SCALE: 1/2" = 1'-0"



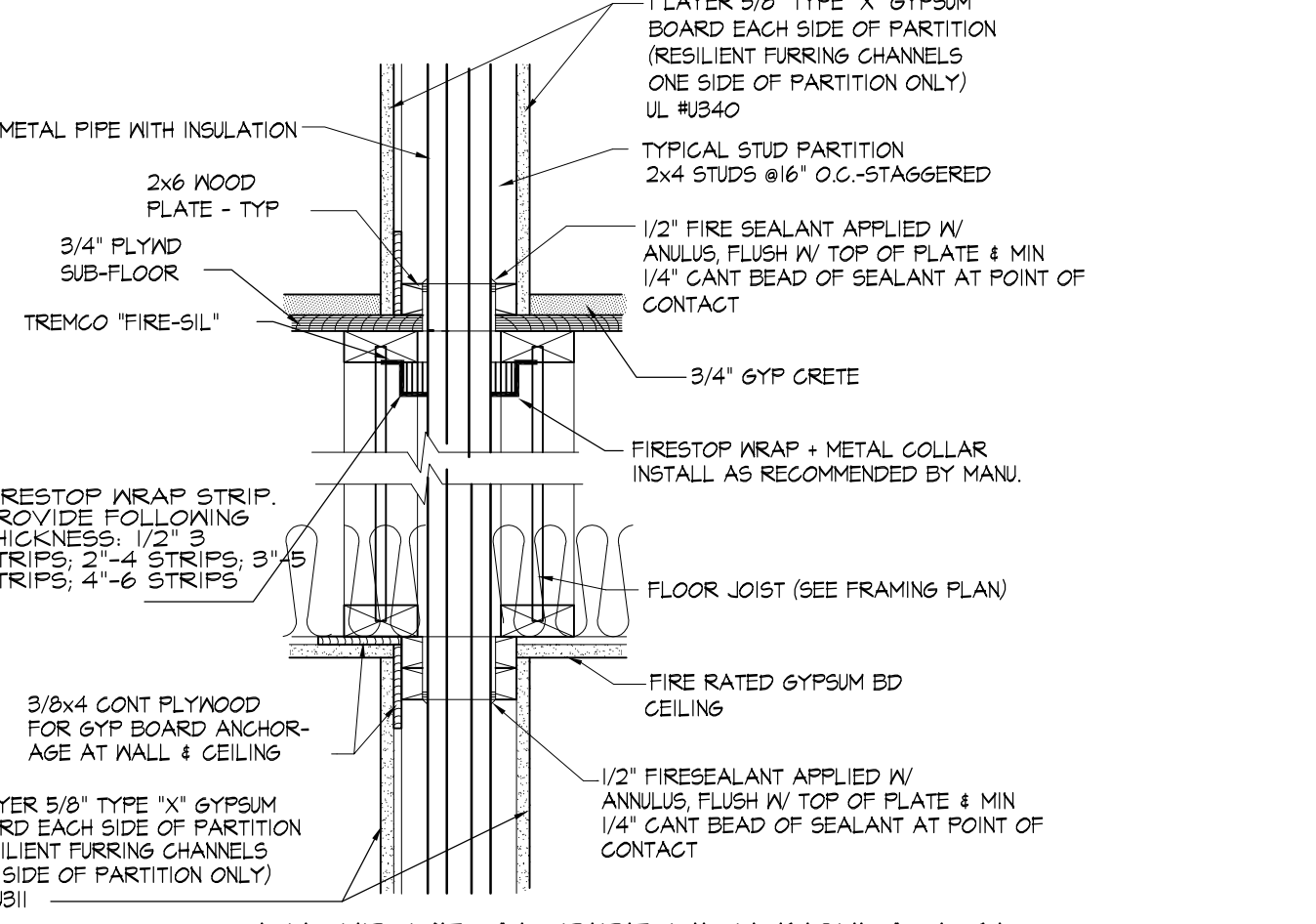
4 1 HOUR FIRESTOP AT PVC DRAIN (UL #F-C-2037)  
SCALE: 1/2" = 1'-0"



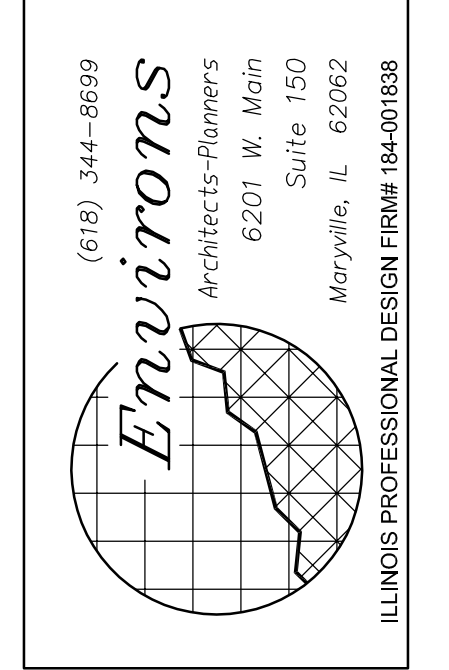
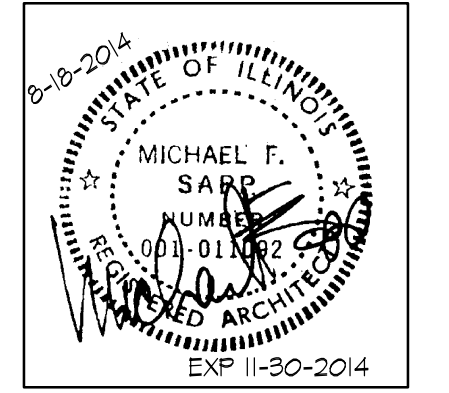
5 1 HOUR FIRESTOP AT PVC TUB DRAINS (UL #F-C-2156)  
SCALE: 1/2" = 1'-0"



14 1 HOUR PVC PIPE (2" OR  $\leq$ ) PENETRATION (UL #F-C-2034)  
SCALE: 1/2" = 1'-0"



15 1 HOUR METAL PIPE WITH INSULATION PENETRATION (UL #F-C-2147)  
SCALE: 1/2" = 1'-0"

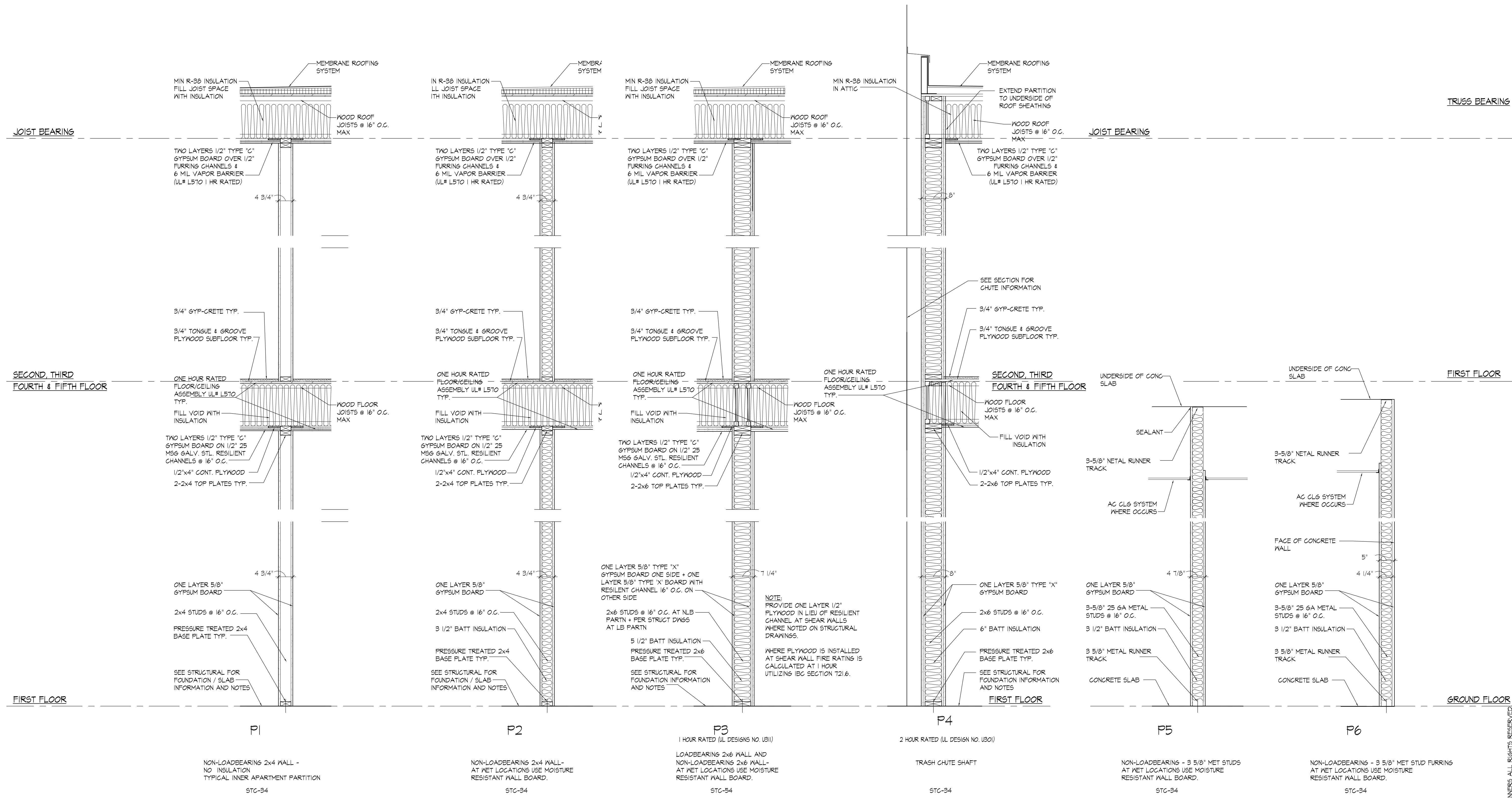
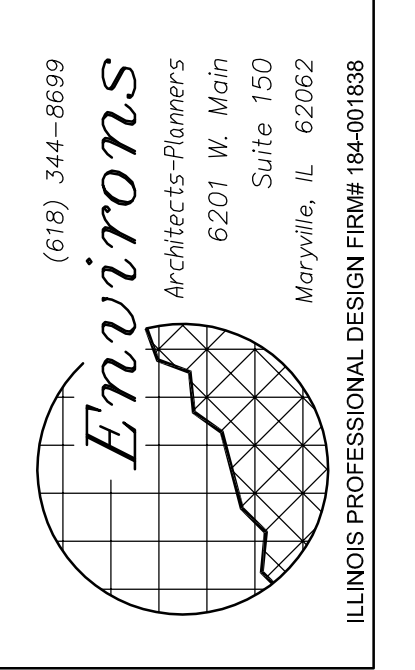
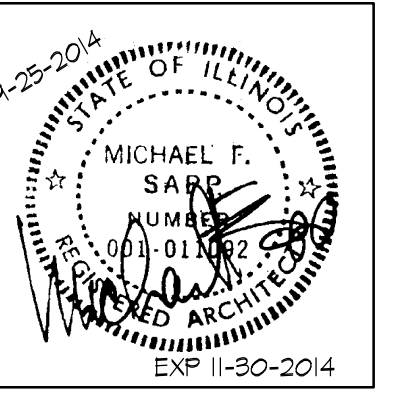


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A NEW APARTMENT BUILDING 'C':  
**CARDINAL SQUARE APARTMENTS**  
McKinley + Anthony Ave. Mundelein, Illinois  
FIRE PROTECTION DETAILS



**TRUSS BEARING**

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13022

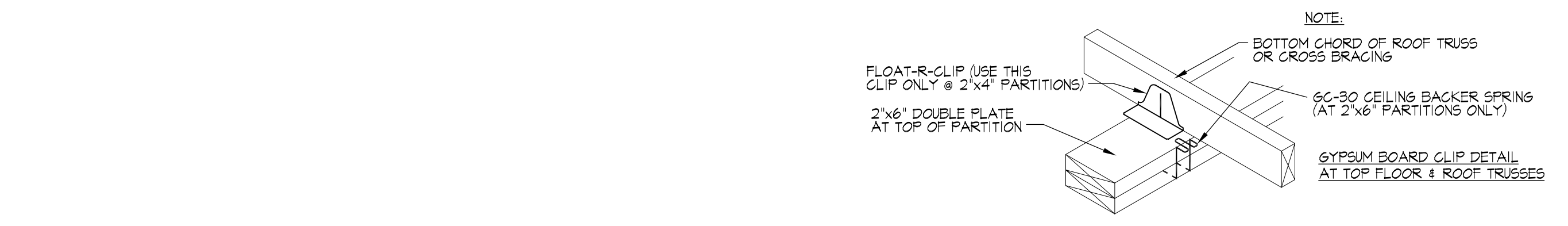
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A NEW APARTMENT BUILDING 'C':  
**CARDINAL SQUARE APARTMENTS**  
 MCKINLEY + ANTHONY AVE. MUNDELEIN, ILLINOIS

**PARTITION TYPES**

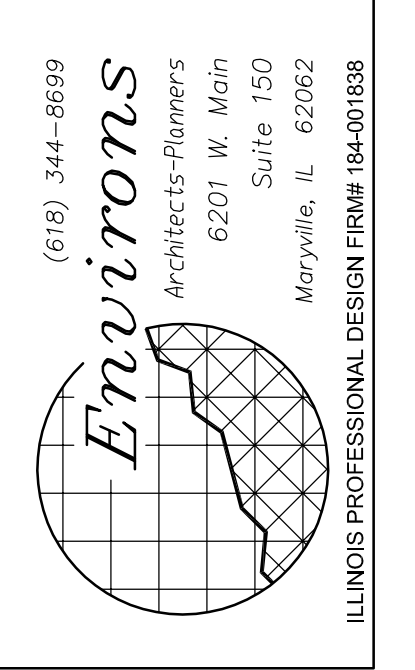
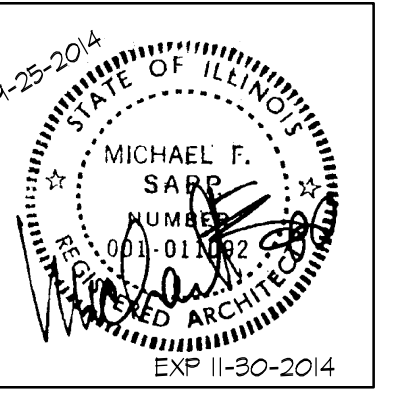


1. WALLS & PARTITIONS MAY NOT BE CONTINUOUS FROM FIRST FLOOR SLAB THROUGH ALL FLOORS. REFER TO FLOOR PLANS & FRAMING PLANS FOR EXACT LOCATION OF PARTITIONS & LOAD BEARING WALLS AT EACH FLOOR.  
 2. CONTRACTOR SHALL VERIFY THE EXACT REQUIREMENTS FOR THE UL DESIGN NUMBERS INDICATED.  
 3. PROVIDE 1/2" PLYWOOD SHEATHING AT ALL INTERIOR SHEAR WALLS, AS DETAILED, BEHIND GYPSUM BOARD FINISH, AT ALL FLOORS WHERE INDICATED ON THE STRUCTURAL DRAWINGS.

**RATED CLOSURES**  
 WALLS UL14-2043 2100 1 OR 2 HOUR WALLS; INSULATED PIPING UL14-5014 1 OR 2 HOUR UP TO 4" IN DIAMETER; MULTIPLE PIPES UL14-1043 1 OR 2 HOUR UP TO 2" DIA.; METALLIC PIPE UL14-1033 1088; HVAC DUCTWORK UL14-1009 2 HOUR RATINGS.

**TYPICAL PARTITION TYPES (P1 THROUGH P5)**  
 SCALE: 3/4" = 1'-0"

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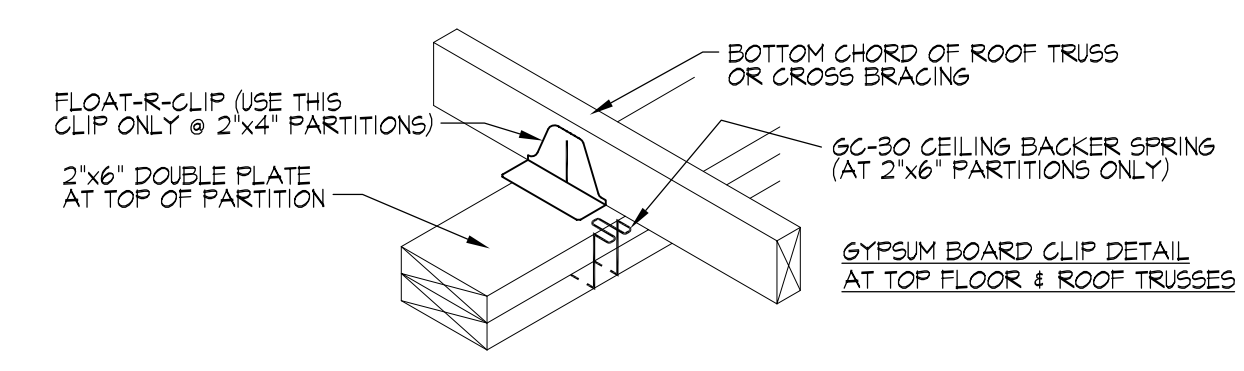
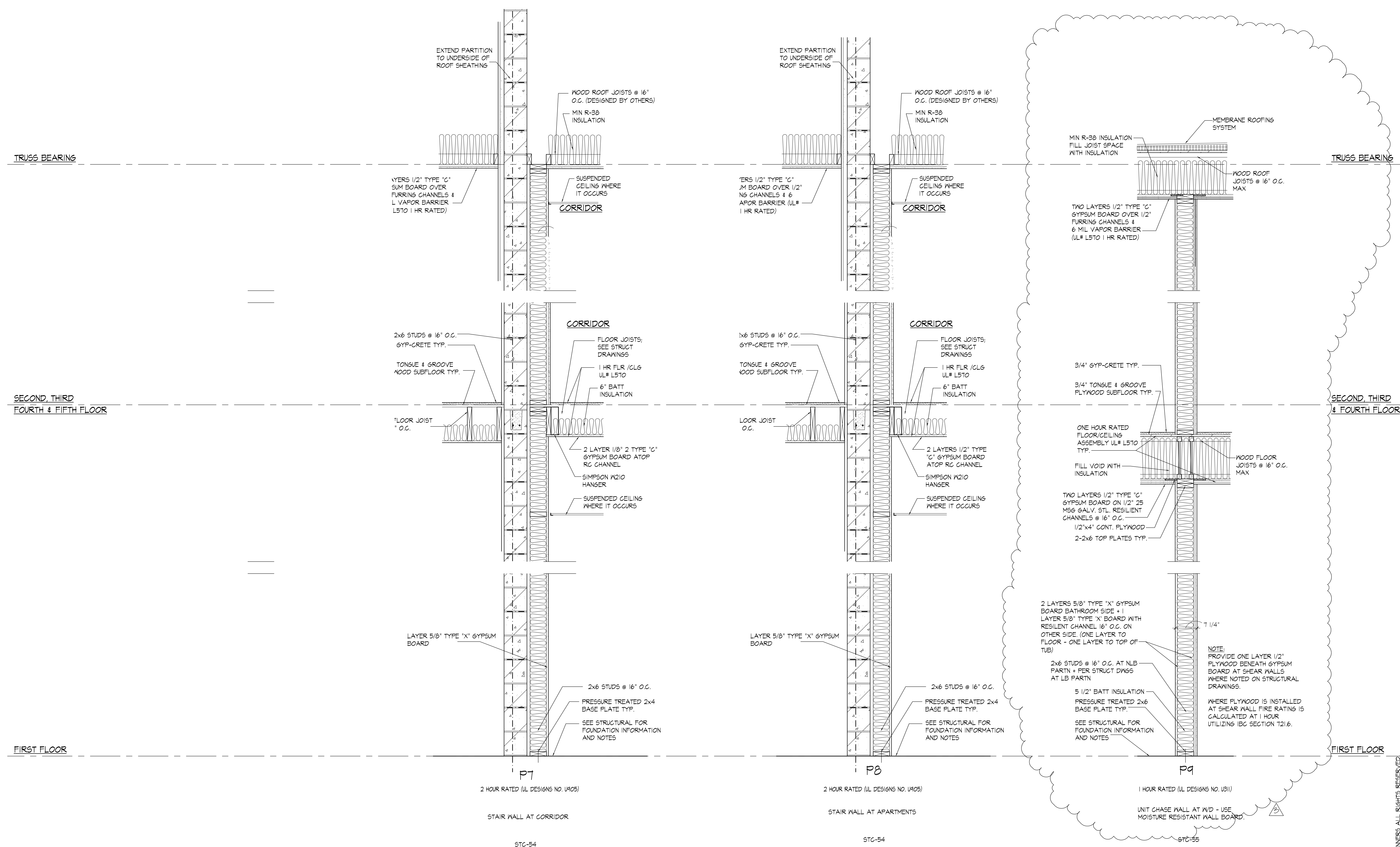
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A NEW APARTMENT BUILDING 'C':  
**CARDINAL SQUARE APARTMENTS**  
 MCKINLEY + ANTHONY AVE. MUNDELEIN, ILLINOIS  
**PARTITION TYPES**

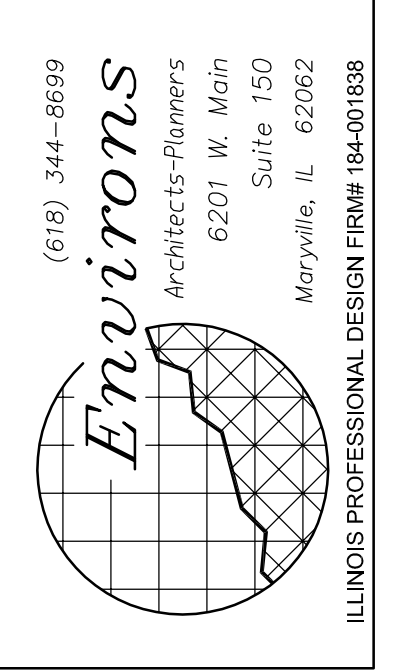
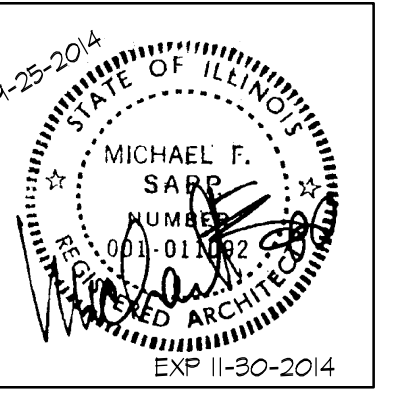


1. WALLS & PARTITIONS MAY NOT BE CONTINUOUS FROM FIRST FLOOR SLAB THROUGH ALL FLOORS. REFER TO FLOOR PLANS & FRAMING PLANS FOR EXACT LOCATION OF PARTITIONS & LOAD BEARING WALLS AT EACH FLOOR.  
 2. CONTRACTOR SHALL VERIFY THE EXACT REQUIREMENTS FOR THE UL DESIGN NUMBERS INDICATED.  
 3. PROVIDE 1/2" PLYWOOD SHEATHING AT ALL INTERIOR SHEAR WALLS, AS DETAILED, BEHIND GYP BOARD FINISH, AT ALL FLOORS WHERE INDICATED ON THE STRUCTURAL DRAWINGS.

**RATED CLOSURES**  
 WALLS UL-L-2043 2100 1 OR 2 HOUR WALLS; INSULATED PIPING UL-L-5014 1 OR 2 HOUR UP TO 4" IN DIAMETER; MULTIPLE PIPES UL-L-1043 1 OR 2 HOUR UP TO 2" DIA.; METALLIC PIPE UL-L-1033 1088; HVAC DUCTWORK UL-L-1009 2 HOUR RATING.

**TYPICAL PARTITION TYPES (P6 THROUGH P9)**  
 SCALE: 3/4" = 1'-0"

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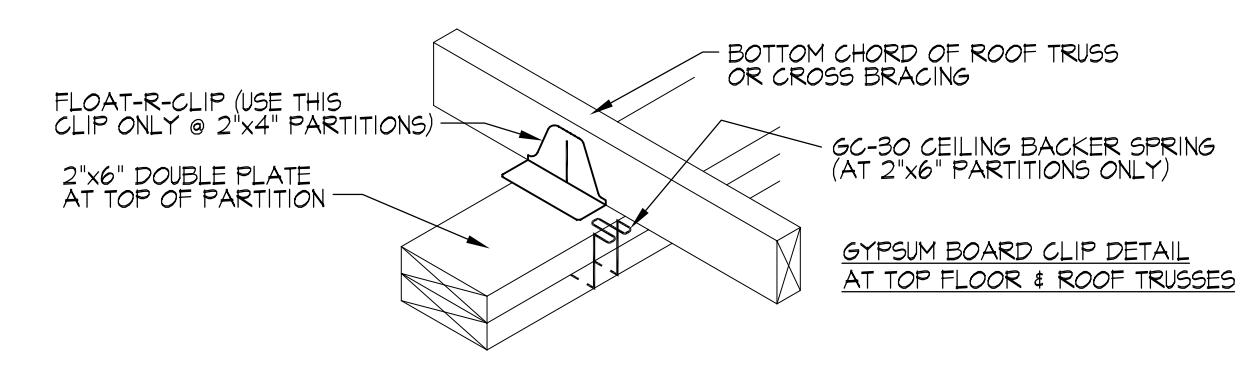
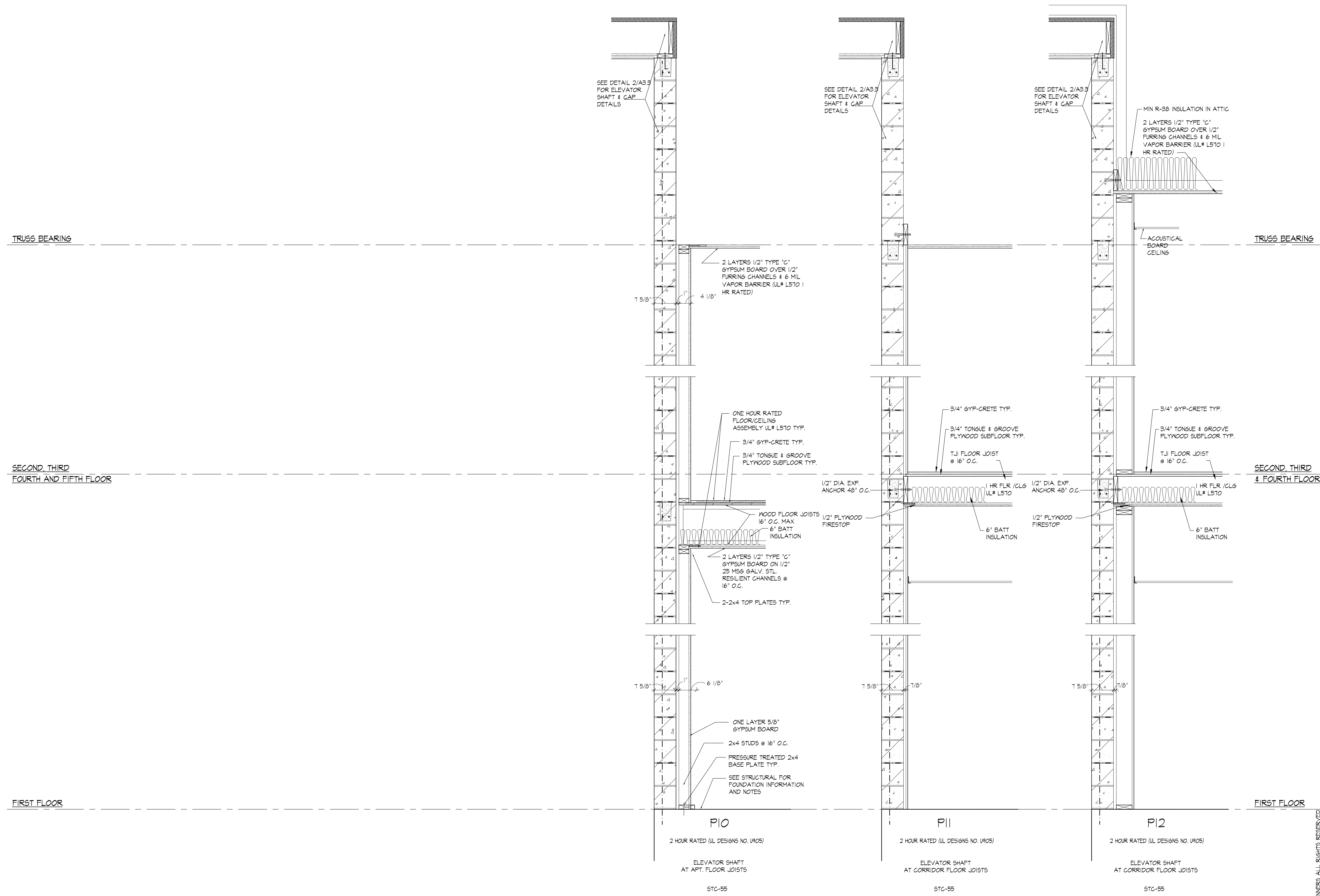
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A NEW APARTMENT BUILDING 'C':  
**CARDINAL SQUARE APARTMENTS**  
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**PARTITION TYPES**

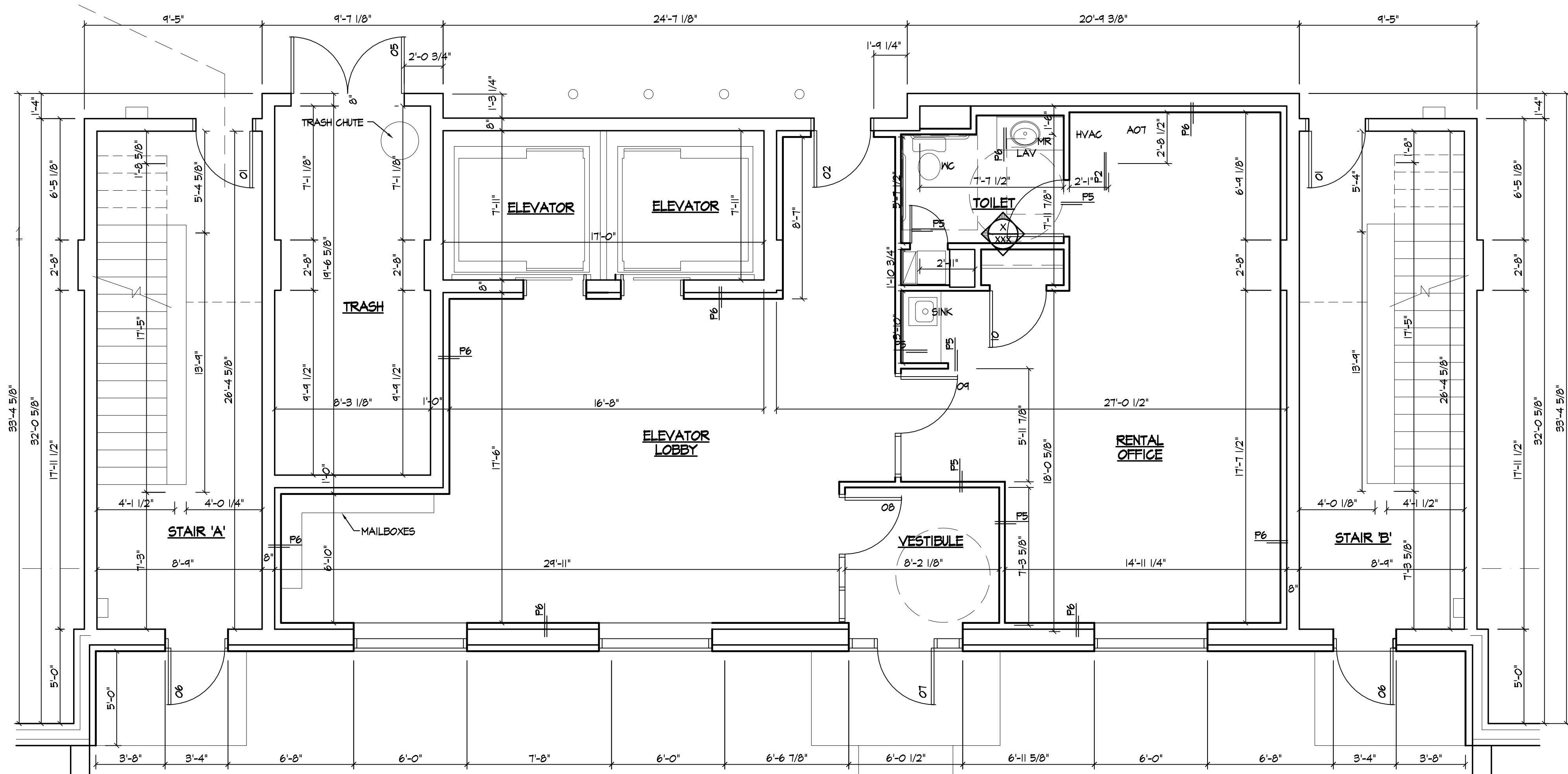


1. WALLS & PARTITIONS MAY NOT BE CONTINUOUS FROM FIRST FLOOR SLAB THROUGH ALL FLOORS. REFER TO FLOOR PLANS & FRAMING PLANS FOR EXACT LOCATION OF PARTITIONS & LOAD BEARING WALLS AT EACH FLOOR.  
 2. CONTRACTOR SHALL VERIFY THE EXACT REQUIREMENTS FOR THE UL DESIGN NUMBERS INDICATED.  
 3. PROVIDE 1/2\"/>

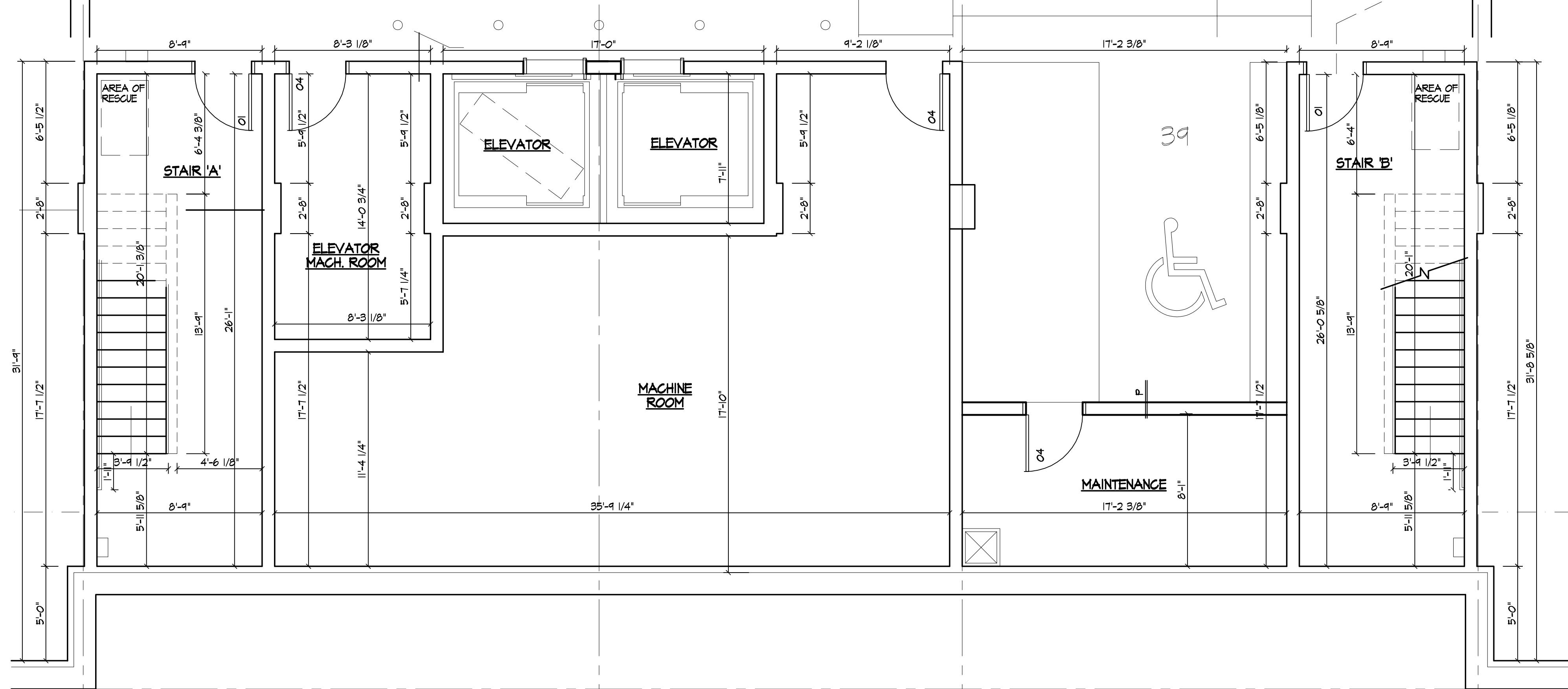
**RATED CLOSURES**  
 WALLS ULXL-2093 2100 1 OR 2 HOUR WALLS; INSULATED PIPING ULXL-5014 1 OR 2 HOUR UP TO 4\"/>

**TYPICAL PARTITION TYPES (P10 THROUGH P12)**  
 SCALE: 3/4\"/>

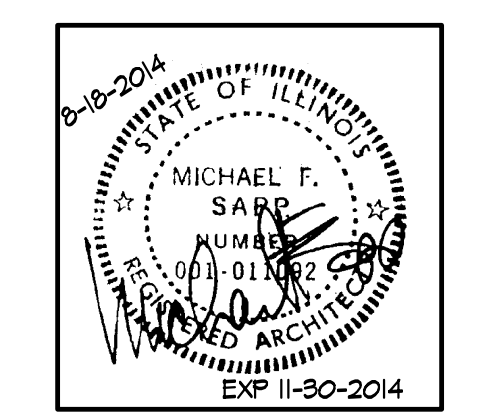
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ENLARGED GROUND FLOOR PLAN - PUBLIC SPACES  
SCALE: 1/4"=1'-0"



ENLARGED LOWER LEVEL PLAN - PUBLIC SPACES  
SCALE: 1/4"=1'-0"



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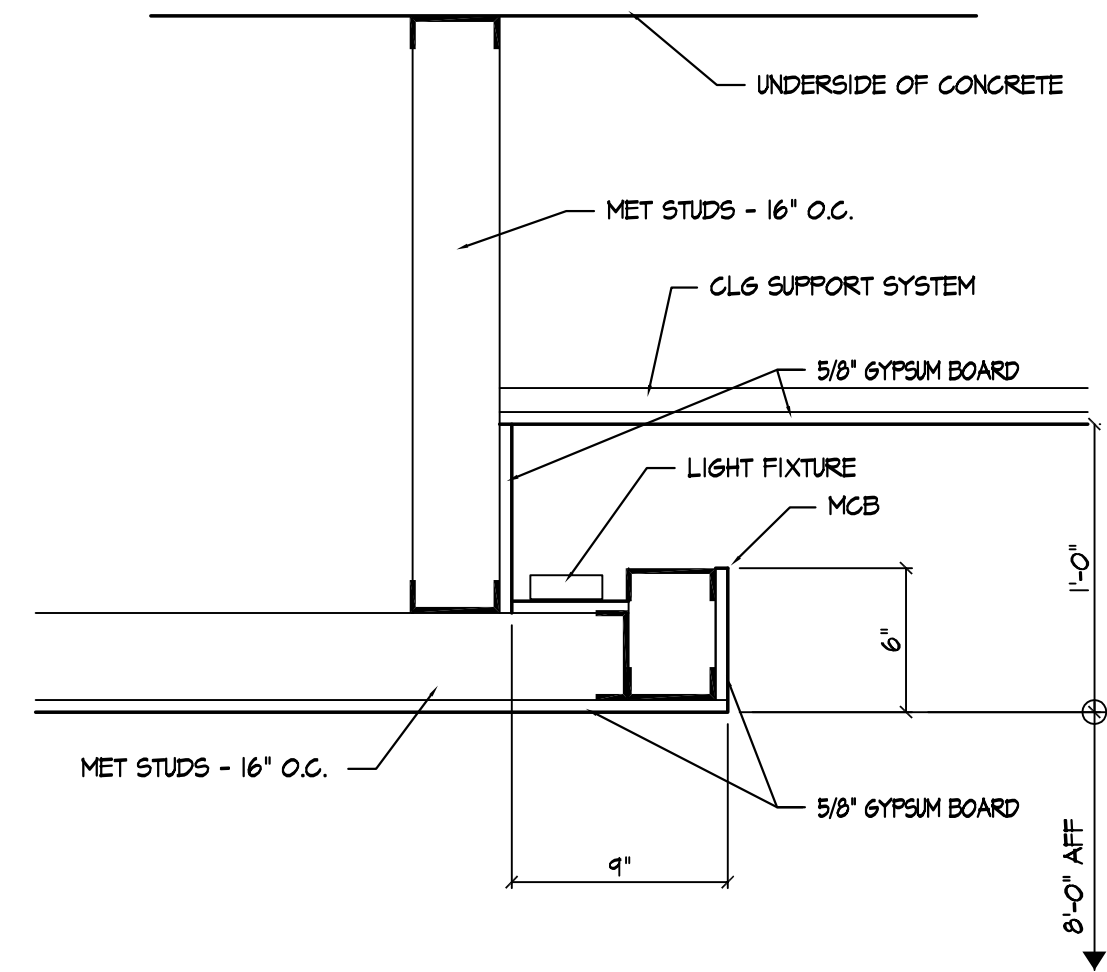
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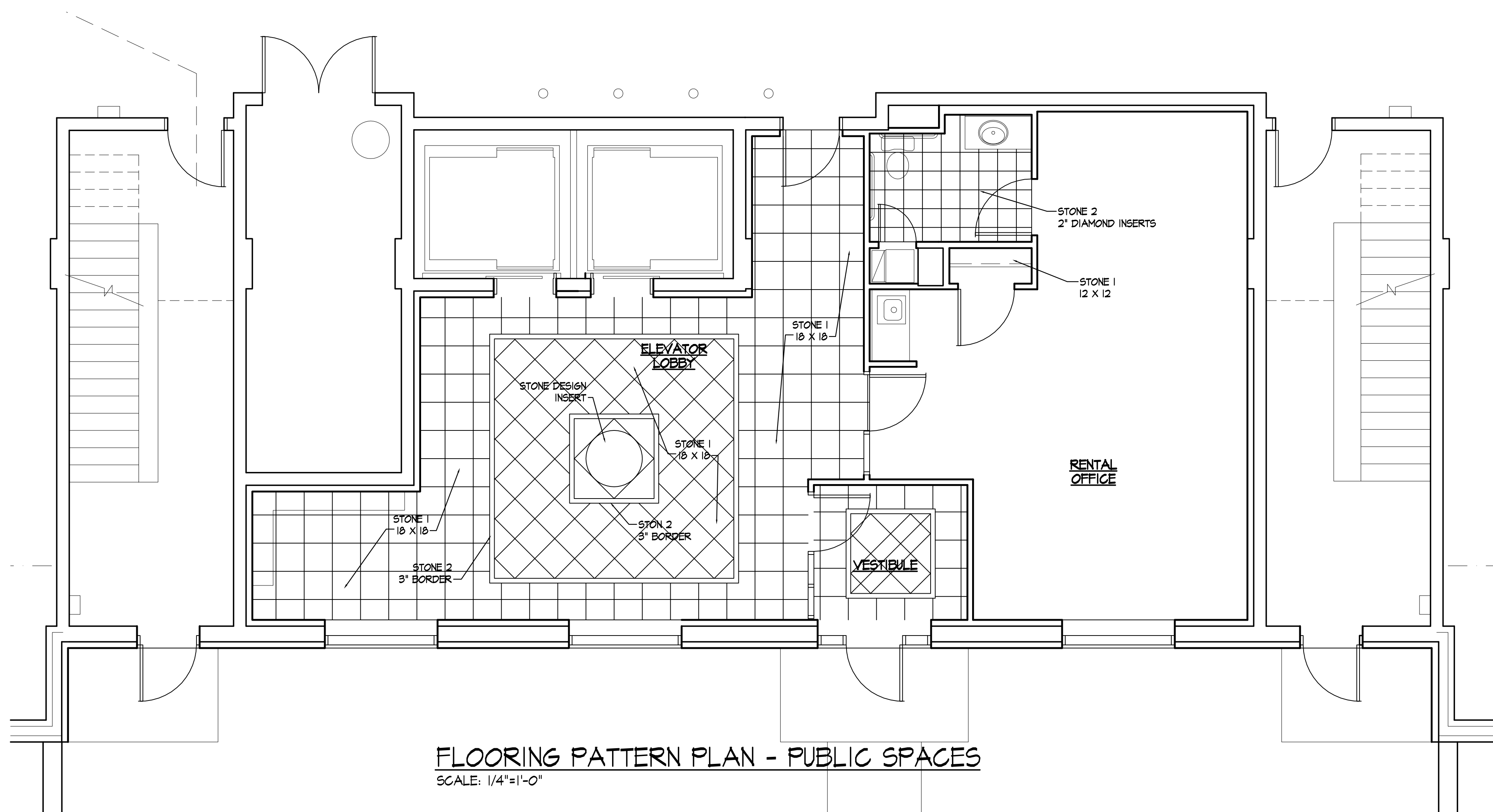
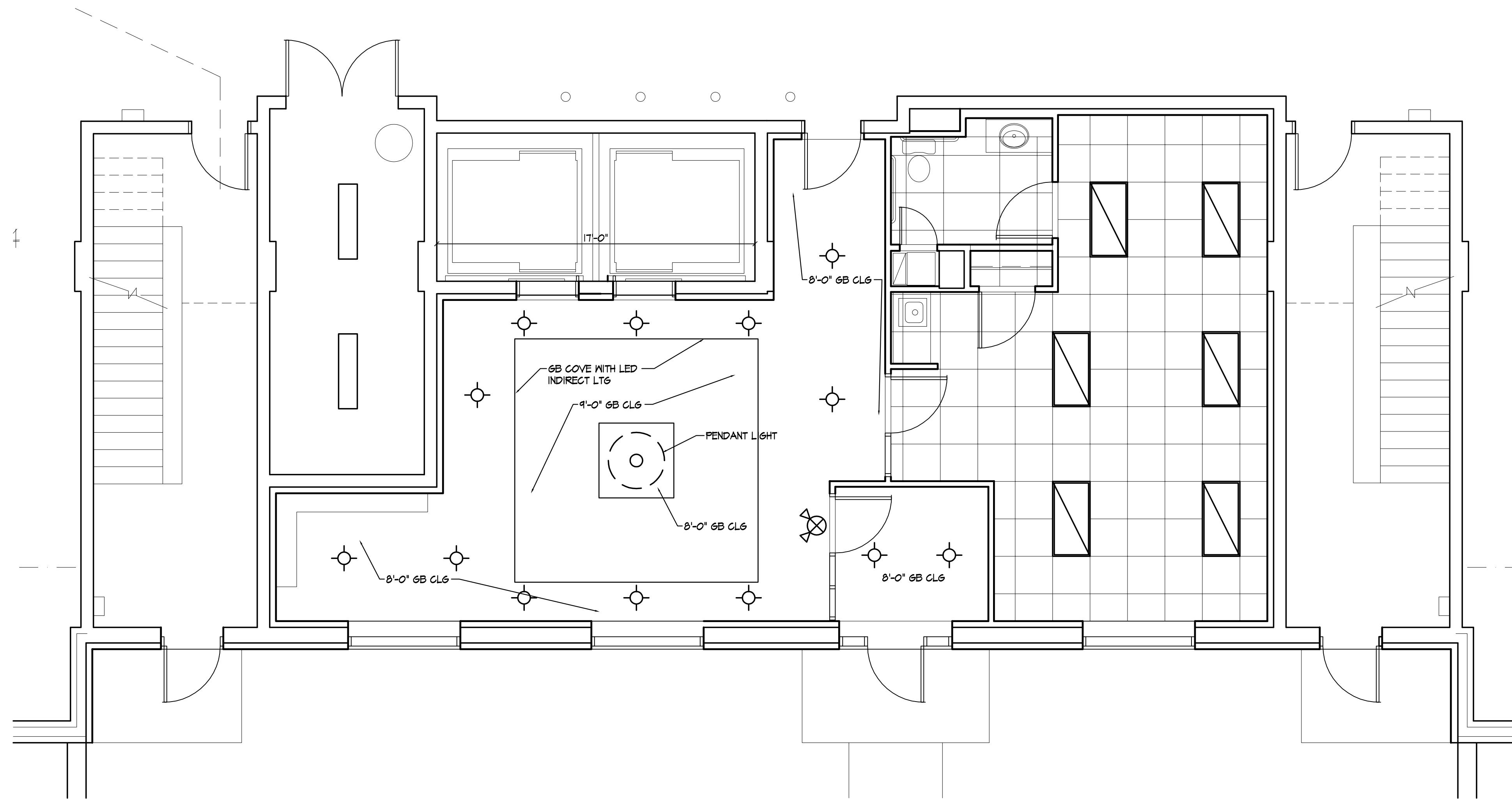
ENLARGED PLAN - PUBLIC SPACES

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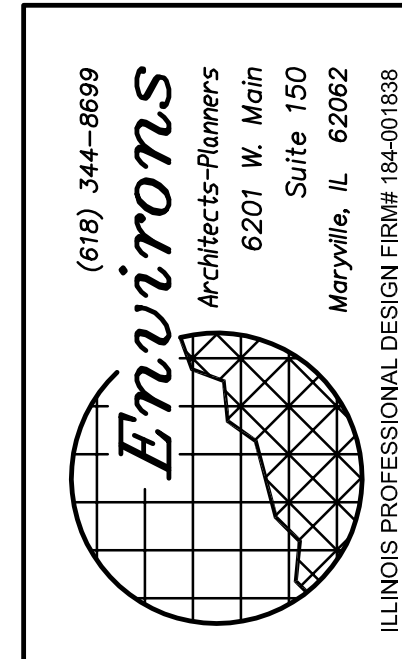
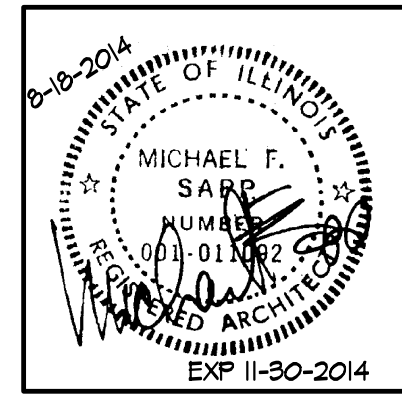
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**SOFFIT DETAIL AT LOBBY**  
SCALE: 1/2" = 1'-0"



**FLOORING PATTERN PLAN - PUBLIC SPACES**  
SCALE: 1/4" = 1'-0"



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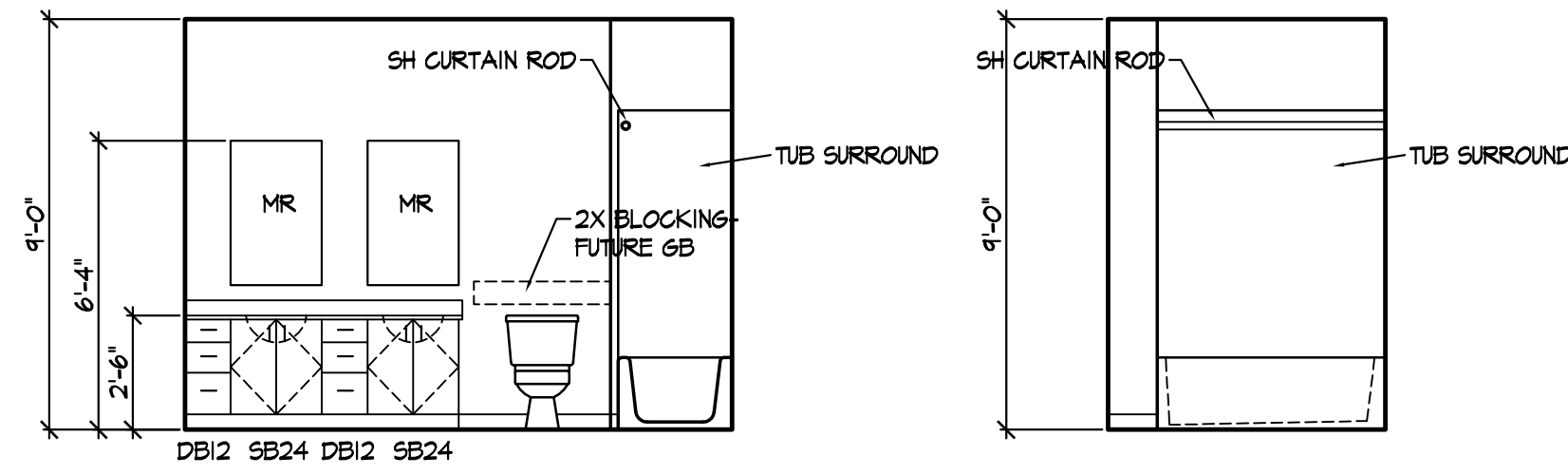


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**ENLARGED PLAN - PUBLIC SPACES**

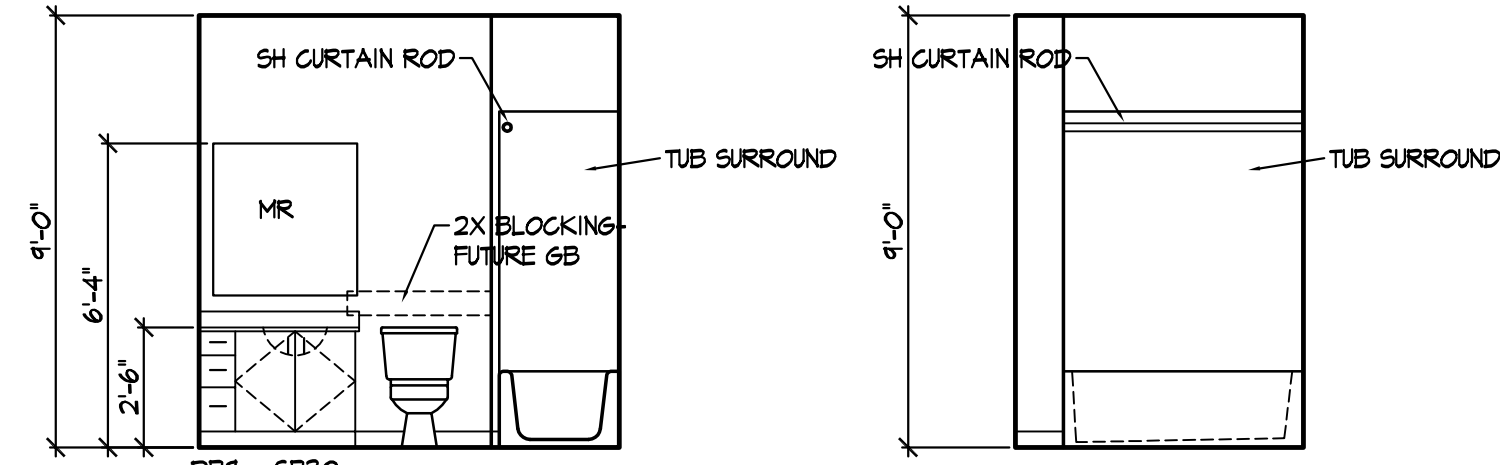
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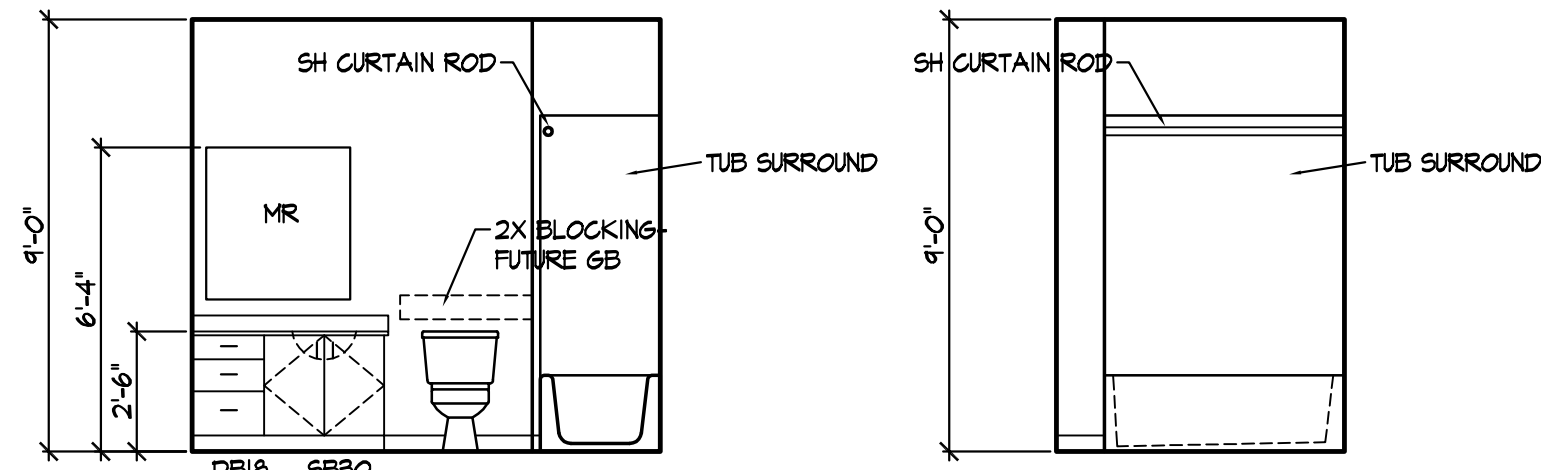




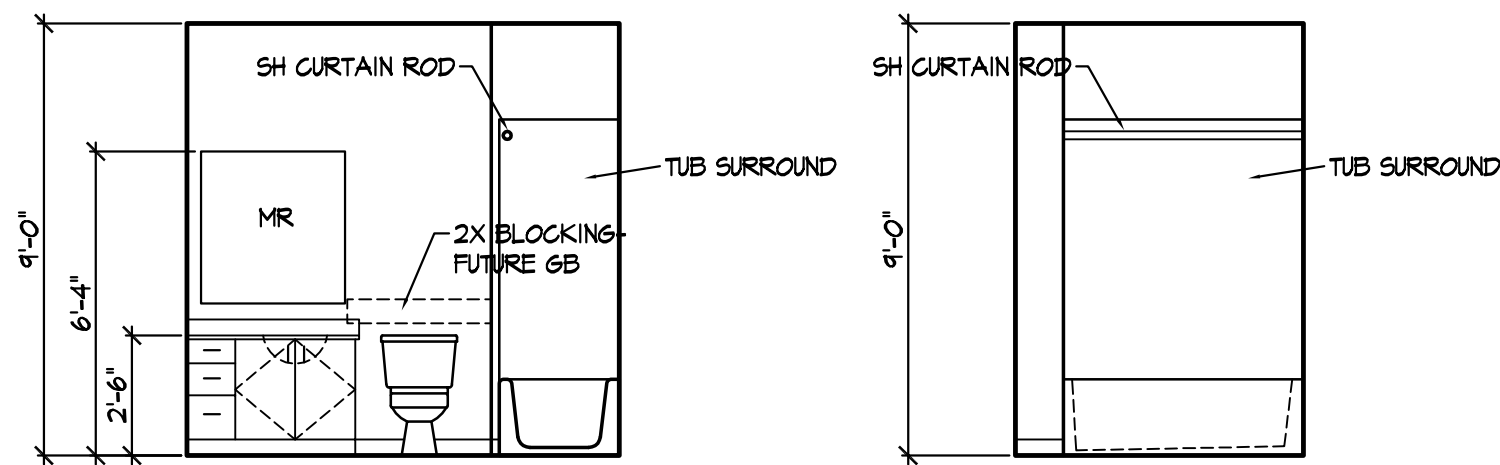
1 TOILET ROOM ELEVATIONS - APT 1 + 11  
SCALE: 1/4"=1'-0" OPPOSITE HAND - SIMILAR



2 TOILET ROOM ELEVATIONS - APT 3 + 9  
SCALE: 1/4"=1'-0" OPPOSITE HAND - SIMILAR

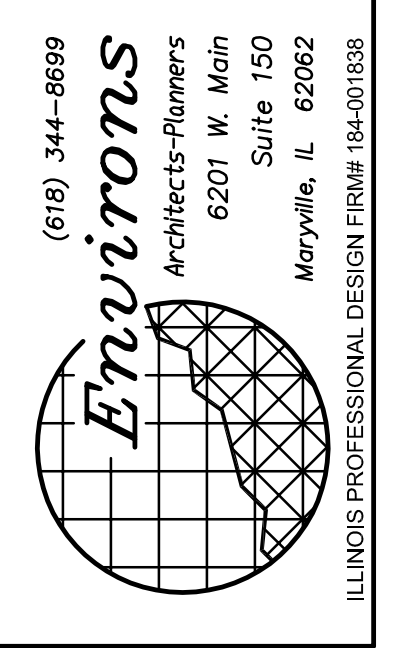
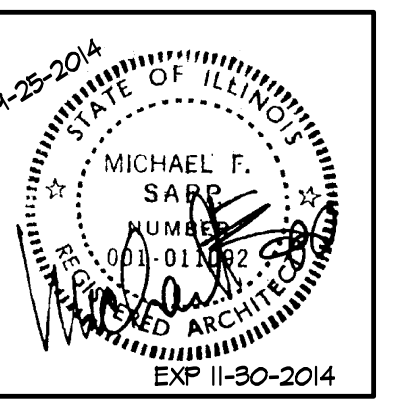
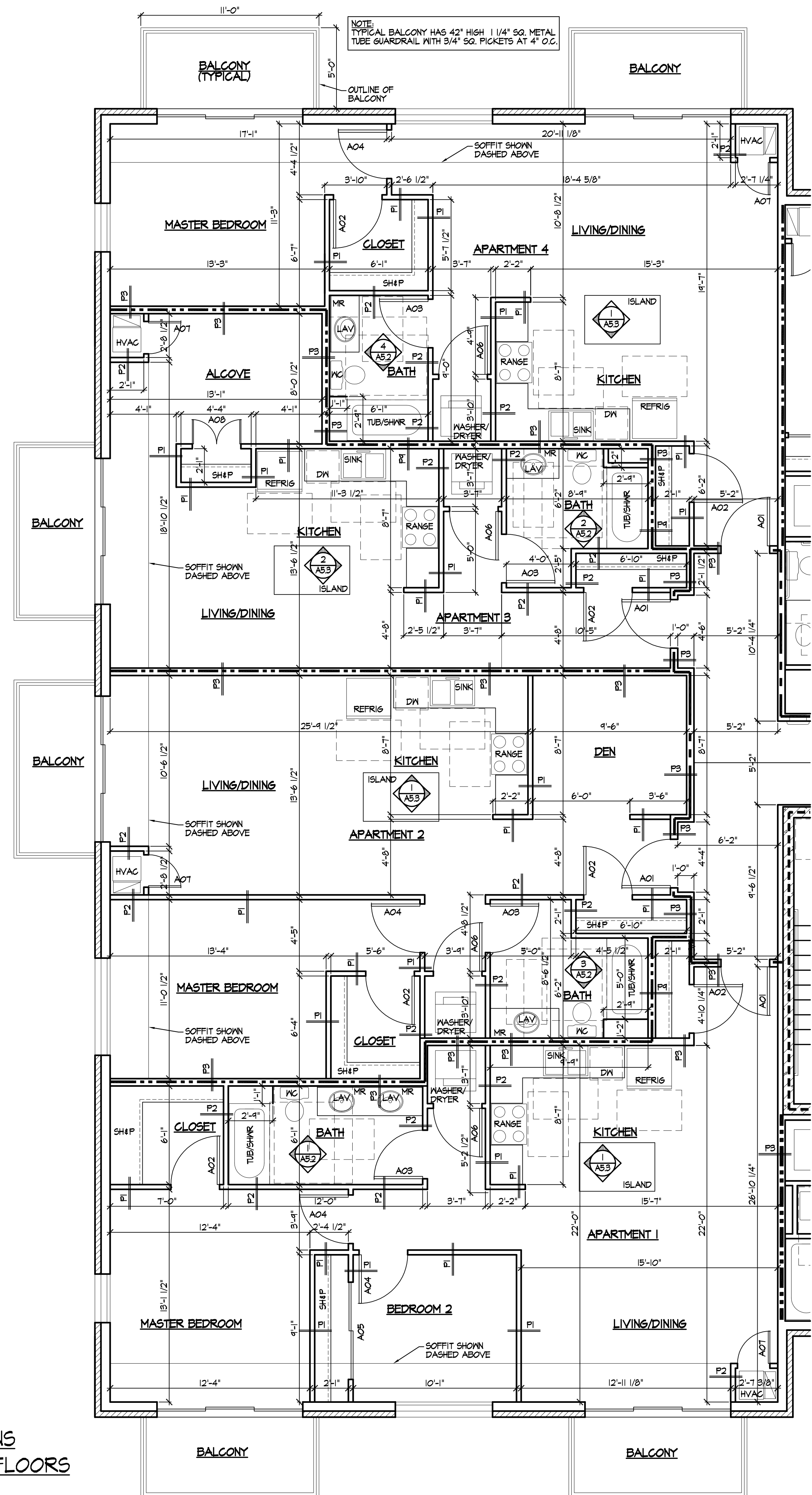


3 TOILET ROOM ELEVATIONS - APT 2 + 10  
SCALE: 1/4"=1'-0" OPPOSITE HAND - SIMILAR



4 TOILET ROOM ELEVATIONS - APT 4 + 8  
SCALE: 1/4"=1'-0" OPPOSITE HAND - SIMILAR

APARTMENT PLANS  
1, 2, 3 + 4 - ALL FLOORS  
SCALE: 1/4"=1'-0"



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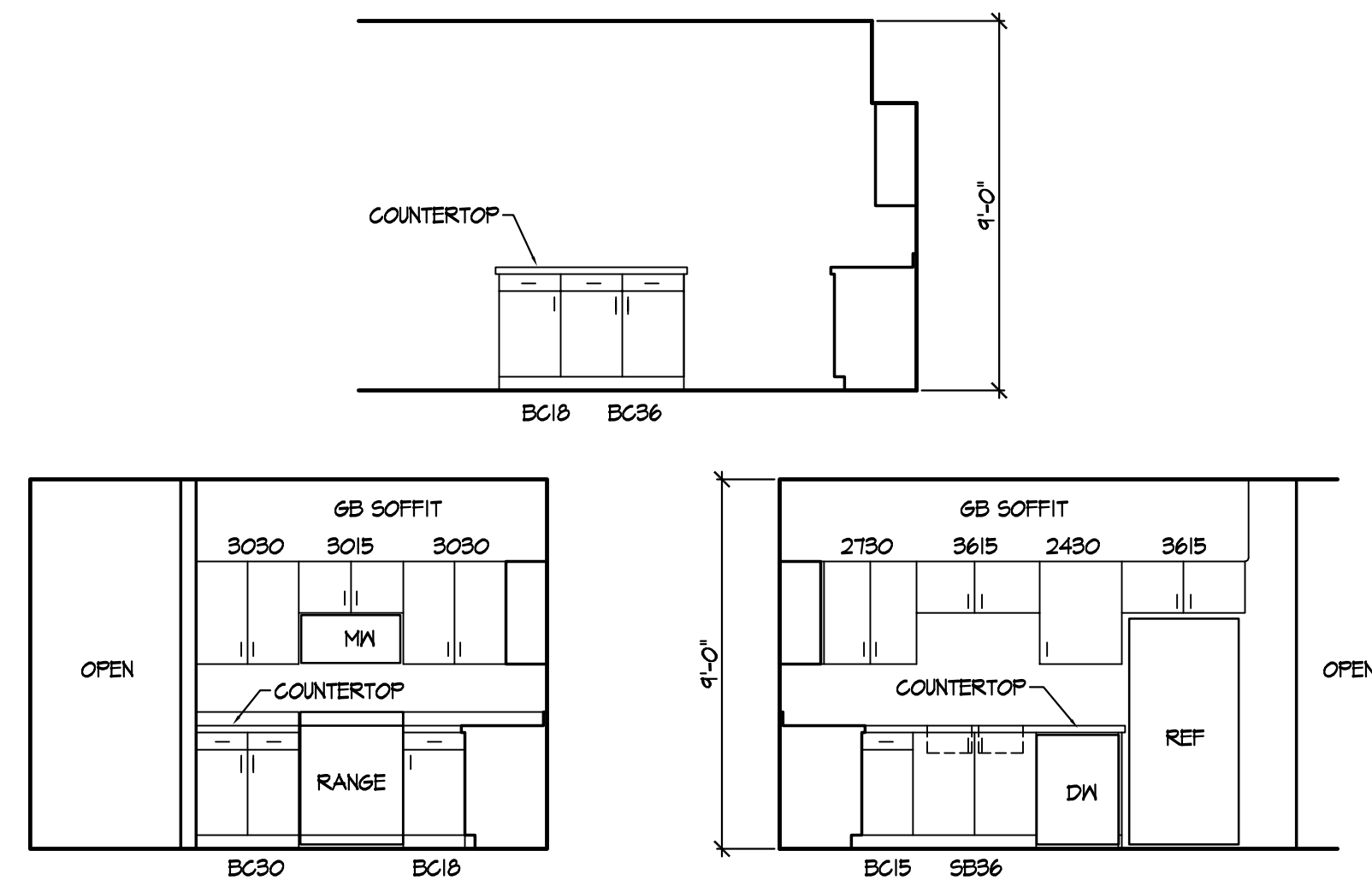
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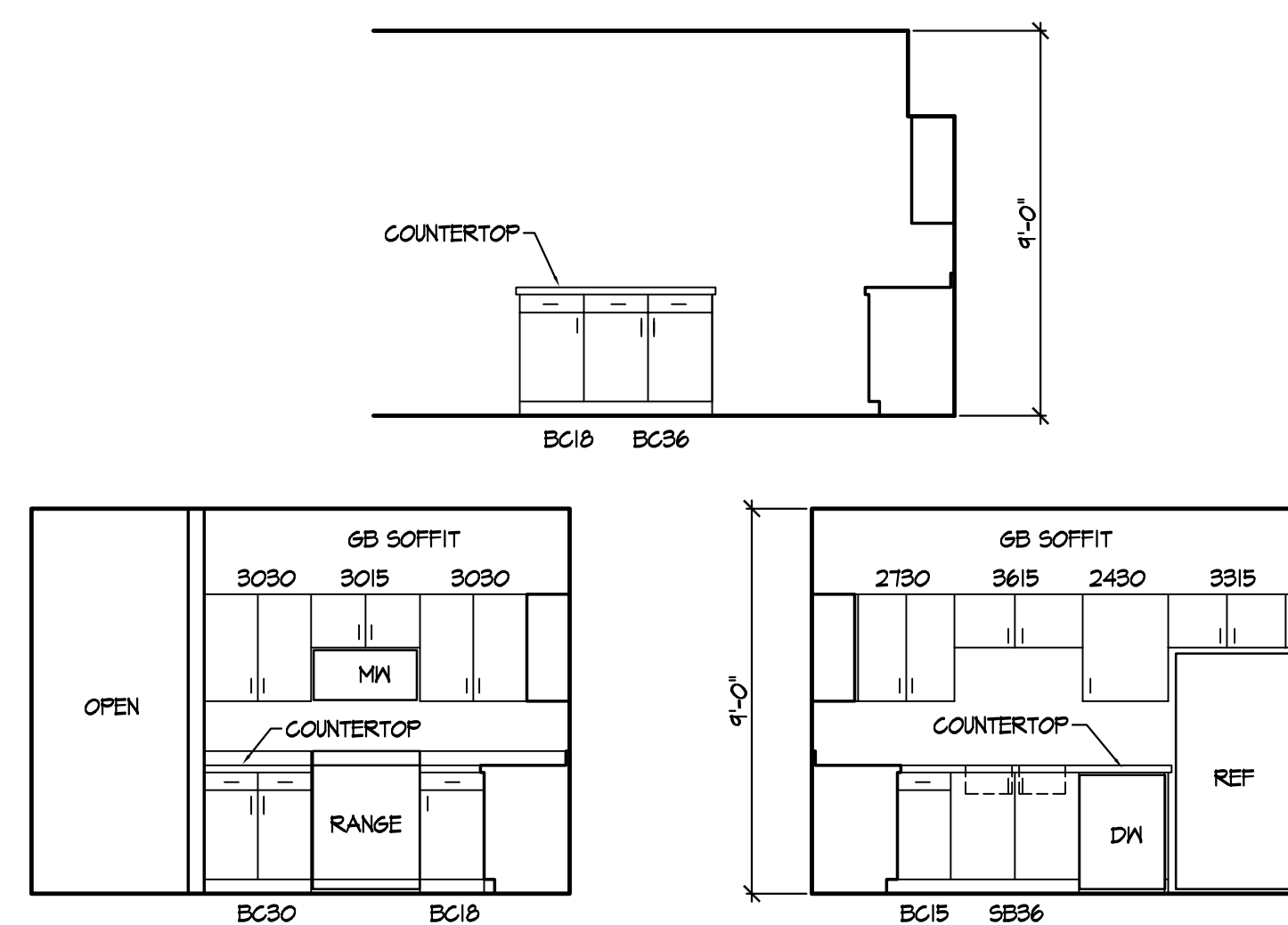
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**CARDINAL SQUARE APARTMENTS**  
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**ENLARGED PLAN - APTS- ALL FLOORS**

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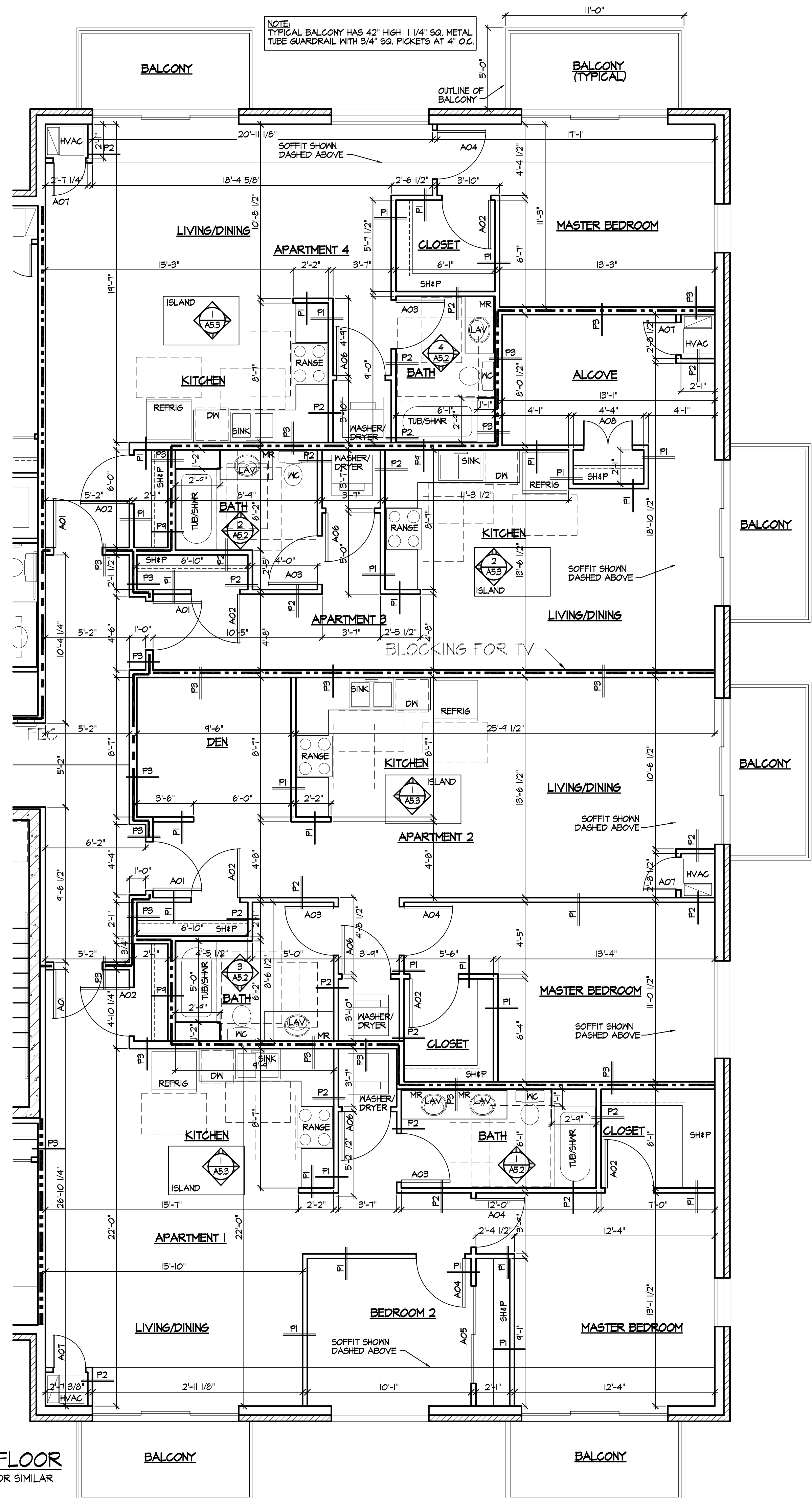
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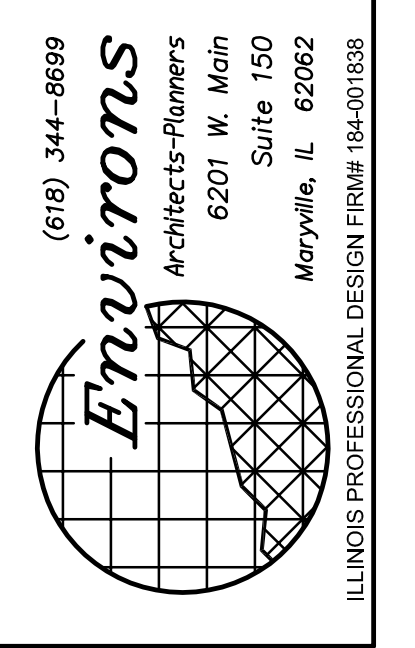
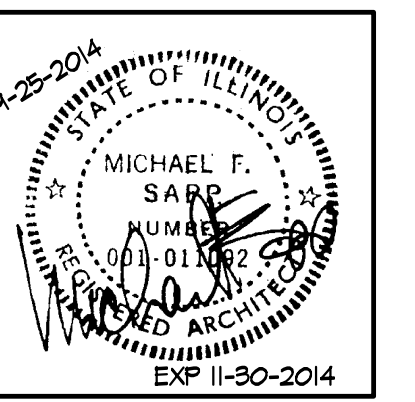
**KITCHEN ELEVATIONS - APT 1, 2, 4, 8, 10, 11 + 12**  
 SCALE: 1/4"=1'-0" OPPOSITE HAND - SIMILAR



**KITCHEN ELEVATIONS - APT 3 + 9**  
 SCALE: 1/4"=1'-0" OPPOSITE HAND - SIMILAR



**APARTMENT PLANS**  
**8, 9, 10 + 11 - SECOND FLOOR**  
 SCALE: 1/4"=1'-0" THIRD FLOOR SIMILAR



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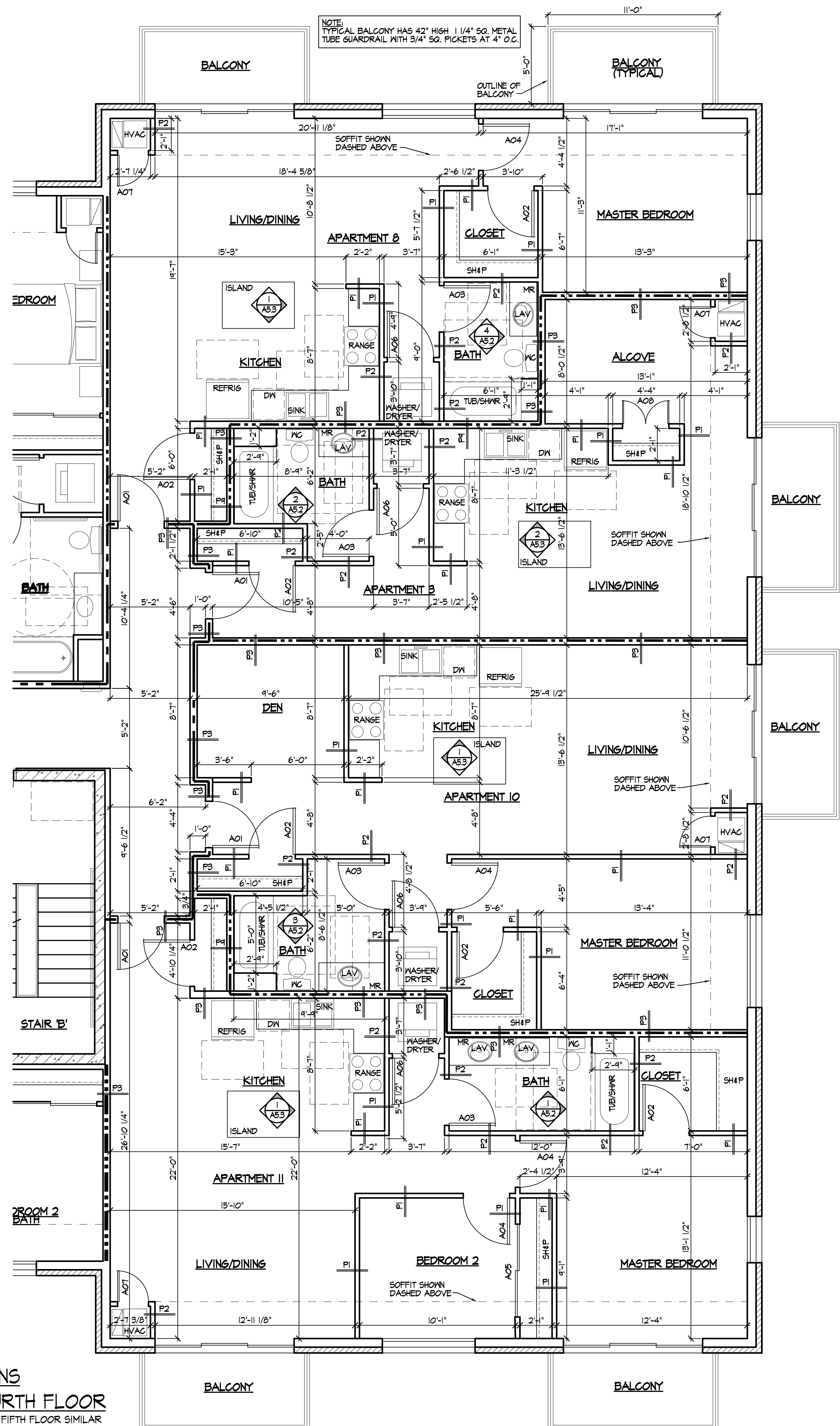
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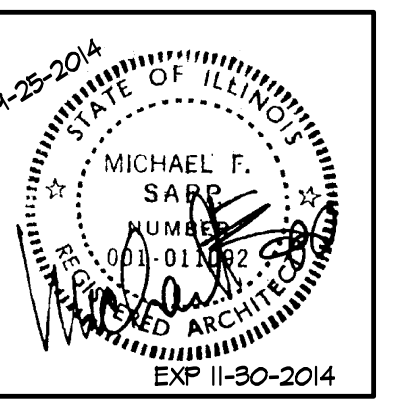
**ENLARGED PLAN - APTS - FLOORS 2+3**

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APARTMENT PLANS  
 8, 9, 10 + 11 - FOURTH FLOOR  
 SCALE: 1/4"=1'-0" FIFTH FLOOR SIMILAR



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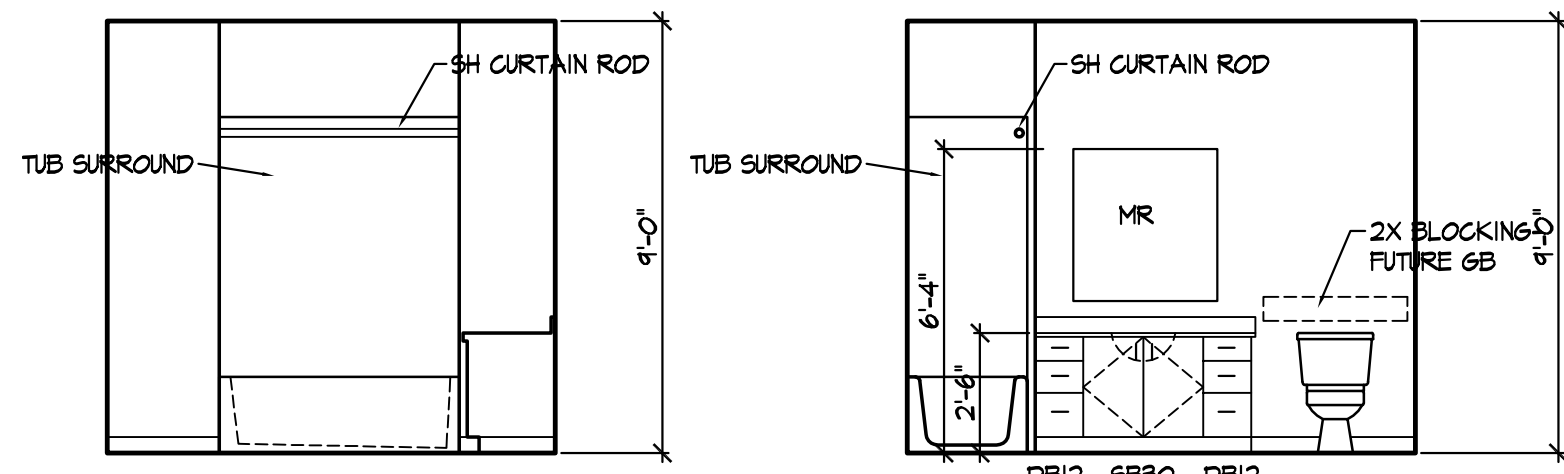


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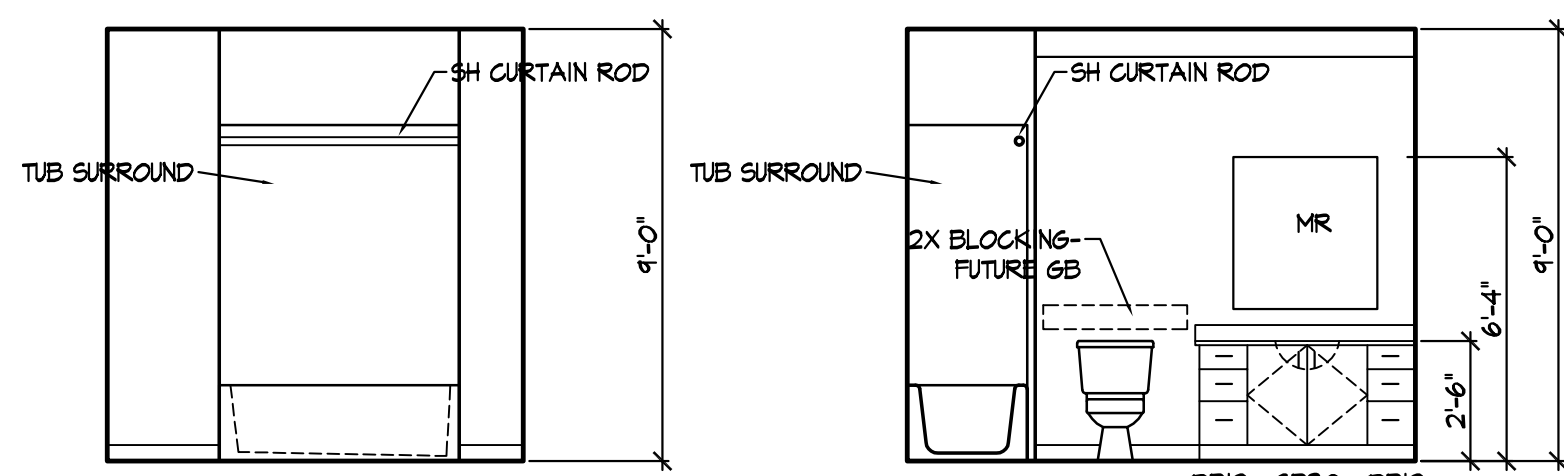
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**ENLARGED PLAN - APTS - FLOORS 4+5**

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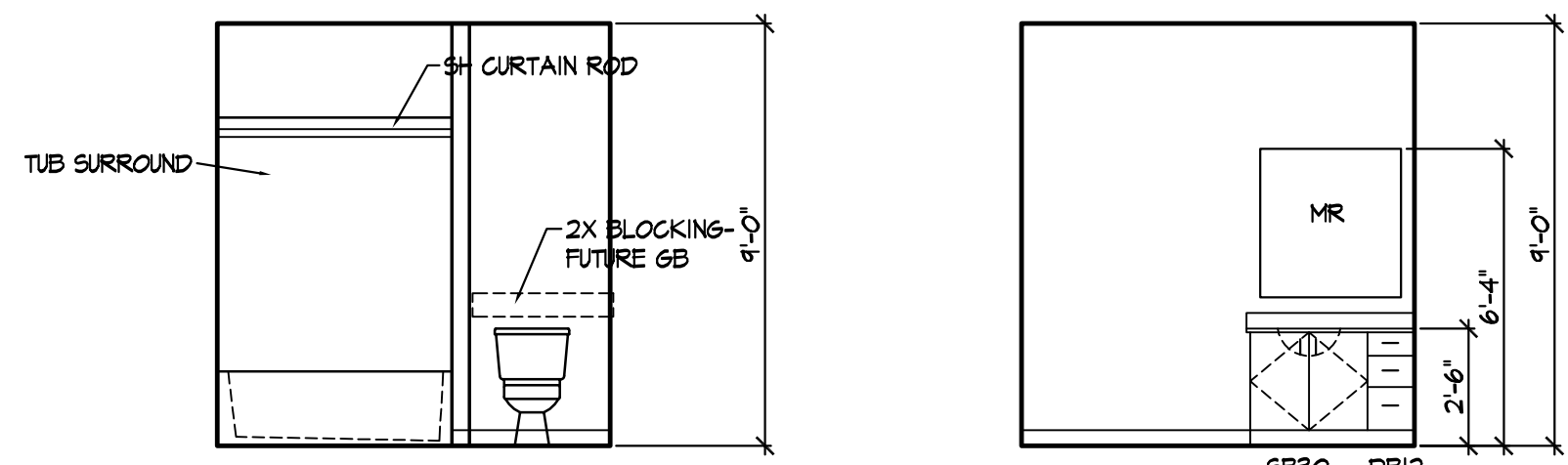
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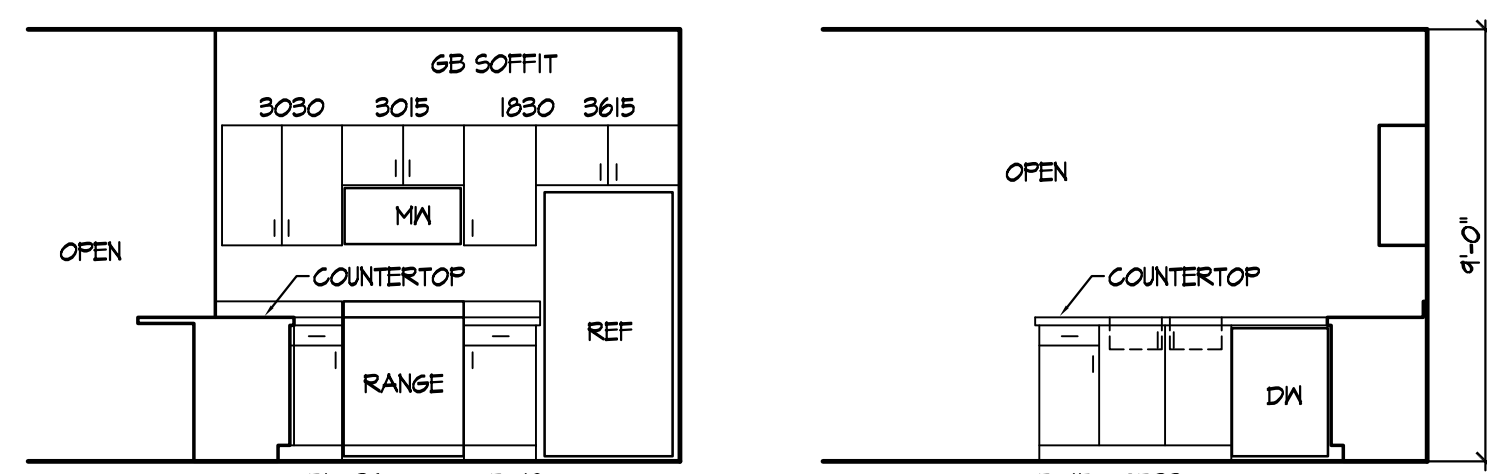
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SCALE: 1/4"=1'-0" OPPOSITE HAND - SIMILAR



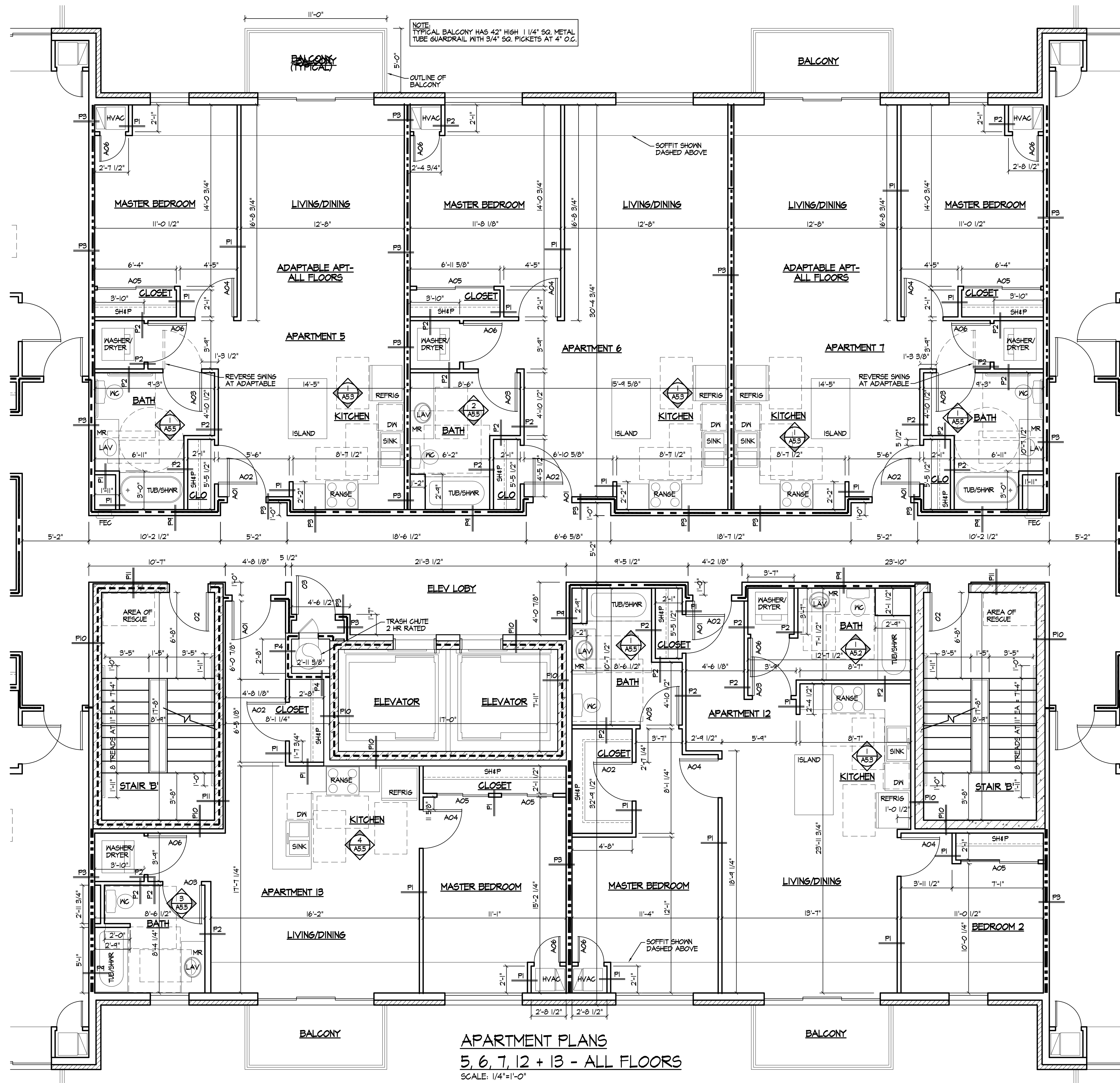
2 TOILET ROOM ELEVATIONS - APT 6  
SCALE: 1/4"=1'-0" OPPOSITE HAND - SIMILAR



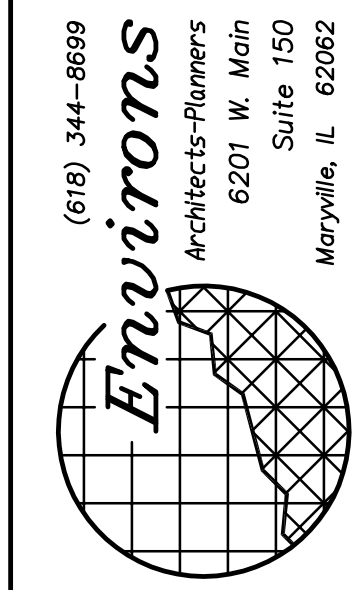
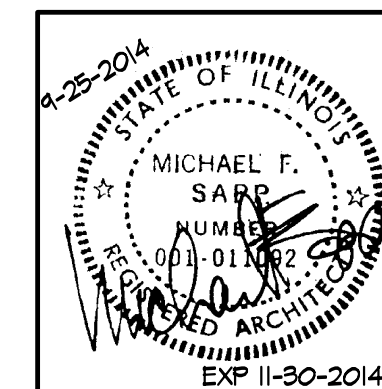
3 TOILET ROOM ELEVATIONS - APT 13  
SCALE: 1/4"=1'-0" OPPOSITE HAND - SIMILAR



4 KITCHEN ELEVATIONS - APT 13  
SCALE: 1/4"=1'-0"



APARTMENT PLANS  
5, 6, 7, 12 + 13 - ALL FLOORS  
SCALE: 1/4"=1'-0"



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**ENLARGED PLAN - APARTMENTS**

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