GENERAL NOTES

- 1. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO , THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS MAY BE NECESSARY.
- 2. DESIGN LIVE LOADS

	20 565
ROOF	20 PSF
PRIVATE ROOMS	40 PSF
BALCONY	100 PSF
CORRIDORS/LANDINGS	100 PSF
STAIRS	100 PSF
MECH ROOMS	100 PSF
PUBLIC ROOMS	100 PSF
STORAGE ROOMS	100 PSF
SNOW LOAD	30 PSF

- 3. DESIGN WIND LOAD SHALL BE BASED ON THE INTERNATIONAL BUILDING CODE 2006 REQUIREMENTS
- a) BASIC WIND SPEED = 90 MPH
- b) USE FACTOR = 1.0
- c) EXPOSURE "C"
- d) COMPONENTS & CLADDING PRESSURES: +21.84 & -39.56 PSF

FOUND ATIONS

- 1. FOUNDATION DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 3000 PSF AS RECOMMENDED IN THE FOUNDATION INVESTIGATION PREPARED BY SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING SERVICES, INC. (PROJECT NO. 13G0138) APRIL 24, 2013.
- 2. PLACE FOOTINGS/SLAB ON COMPACTED SOIL. FOLLOW RECOMMENDATIONS OF SOILS REPORT.

CAST IN PLACE CONCRETE

1. ALL CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 .DAYS:

SLAB ON GRADE, FOOTINGS 3000 PSI REMAINING CONCRETE 4000 PSI

- 2. ALL CONCRETE SHALL HAVE A SLUMP OF 4" PLUS OR MINUS 1", AND HAVE 6% AIR ENTRAINMENT, AND A MAXIMUM WATER/CEMENT RATIO OF Ø.58.
- 3. CONCRETE MIX DESIGN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 301 CHAPTER 3, METHOD 1 OR METHOD 2. SUBMIT BACKUP DATA AS REQUIRED BY CHAPTER 5 SECTION 5.3. OF THE LATEST EDITION OF ACI 318.
- 4. ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.
- 5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. WWF SHALL BE LAPPED AT LEAST 8" AND CONTAIN AT LEAST ONE CROSS WIRE WITHIN THE 8".
- 6. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 318 LATEST EDITION, AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," ACI 301.
- 7. ALL REINFORCING DETAILS SHALL CONFORM TO "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" ACI 315 LATEST EDITION, UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.
- 8. CONTRACTOR SHALL REVIEW ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF EMBEDDED ITEMS, SLEEVES, SLAB DEPRESSIONS, SLOPES, ETC.
 REQUIRED BY OTHER TRADES. THESE ITEMS SHALL BE FURNISHED AND INSTALLED PRIOR TO PLACEMENT OF CONCRETE.
- 9. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, SLEEVES, ANCHOR BOLTS, INSERTS, ETC., AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED.
- 10. WHERE BAR LENGTHS ARE GIVEN ON THE DRAWINGS, THE LENGTH OF ANY HOOK, IF REQUIRED, IS NOT INCLUDED. HOOKS SHALL BE PROVIDED AT DISCONTINUOUS ENDS OF ALL TOP BARS OF BEAMS AND AT SLABS EDGES.
- II. CONTRACTOR SHALL PROVIDE SPACERS, CHAIRS, BOLSTERS, ETC. NECESSARY TO SUPPORT REINFORCING STEEL. SUPPORT ITEMS WHICH BEAR ON EXPOSED CONCRETE SURFACES SHALL HAVE ENDS WHICH ARE PLASTIC TIPPED OR STAINLESS STEEL.
- 12. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT
- 3" CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.
- 2" CONCRETE EXPOSED TO EARTH OR WEATHER, *6 THROUGH *18 BARS.
 1 1/2" CONCRETE EXPOSED TO EARTH OR WEATHER, *5 BAR AND SMALLER.
- 1 1/2" CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH FOR THE PRIMARY REINFORCEMENT, TIES, STIRRUPS, AND SPIRALS IN BEAMS AND COLUMNS:
- 3/4" CONCRETE NOT EXPOSED TO WEATHER NOR IN CONTACT WITH EARTH FOR SLABS, WALLS, AND JOISTS, *11 BAR AND SMALLER.
- 13. HORIZONTAL WALL AND FOOTING BARS SHALL BE BENT 1'-Ø" AROUND CORNERS OR CORNER BARS WITH 2'-Ø" LAP SHALL BE PROVIDED.
- 14. HORIZONTAL KEYWAYS IN CONSTRUCTION JOINTS SHALL BE PROVIDED IN BEAMS, SUPPORTED SLABS, AND WALL FOOTINGS WITH A DEPTH OF 1-1/2" AND HEIGHT EQUAL TO ONE-THIRD OF THE MEMBER'S DEPTH. REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS UNLESS OTHERWISE NOTED ON THE DRAWINGS. CONSTRUCTION JOINTS MAY BE USED ONLY AT LOCATIONS SHOWN ON THE DRAWINGS OR AT OTHER LOCATIONS APPROVED BY THE ARCHITECT.

- 15. MINIMUM LAP SPLICES ON ALL REINFORCING BAR SPLICES SHALL BE 48 BAR DIAMETERS TYP. EXCEPT WHERE OTHERWISE NOTED ON THE DRAWINGS. FOR BEAMS AND ELEVATED SLABS, LAP BOTTOM STEEL AT THE SUPPORT AND TOP STEEL OVER THE MIDSPAN, UNLESS OTHERWISE NOTED.
- 16. TESTING LABORATORY SHALL SUBMIT ONE COPY OF ALL CONCRETE TEST REPORTS DIRECTLY TO THE ENGINEER.

MASONRY WALL CONSTRUCTION

- 1. HOLLOW LOAD BEARING UNITS SHALL BE NORMAL WEIGHT, GRADE N, TYPE 2, CONFORMING TO ASTM C90, WITH A MINIMUM NET COMPRESSIVE STRENGTH OF 2000 PSI (f'm = 1500 PSI)
- 2. MORTAR SHALL BE TYPE M OR S. CONFORMING TO ASTM C270.
- 3. COURSE GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI.
- 4. VERTICAL REINFORCEMENT SHALL BE AS NOTED ON THE DRAWINGS WITH CELLS FILLED WITH COARSE GROUT.
- 5. VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT THE TOP AND BOTTOM AND AT A MAXIMUM SPACING OF 8'-0". REINFORCEMENT SHALL BE PLACED IN THE CENTER OF THE MASONRY CELL TYPICAL UNLESS OTHERWISE NOTED. SEE TYPICAL GROUTING DETAILS FOR ADDITIONAL INFORMATION.
- 6. REINFORCING STEEL SHALL BE LAPPED MINIMUM 30 BAR DIAMETERS WHERE SPLICED AT FOUNDATIONS OR FLOORS, OTHERWISE MINIMUM LAP IS 48 DIAMETERS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 1. HORIZONTAL WALL REINFORCEMENT SHALL BE STANDARD TRUSS TYPE DUR-O-WAL AT 16" O.C., UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- 8. SPLICED WIRE REINFORCEMENT SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT WITHIN THE 6". LAP WITH STANDARD 'T' AND 'L' SHAPED PIECES AT INTERSECTIONS AND CORNERS.
- 9. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN SIX VERTICALS. DOWELS SHALL BE GROUTED INTO A CORE IN VERTICAL ALIGNMENT, EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCEMENT.
- IØ. PROVIDE PRECAST CONCRETE LINTELS OVER ALL OPENINGS UNLESS NOTED OTHERWISE ON DRAWINGS. LINTELS SHALL BE OF SUFFICIENT SIZE AND REINFORCEMENT FOR THE GIVEN SPANS AND LOADING CONDITIONS. SUBMIT SHOP DRAWINGS WITH RATED LOAD CAPACITIES TO THE ARCHITECT FOR REVIEW.
- II. PROVIDE A KNOCK OUT BLOCK OR U-BLOCK REINFORCED WITH 1 #5 CONTINUOUS AT THE SILL OF ALL WINDOW OPENINGS. EXTEND 16" BEYOND EACH SIDE OF THE OPENING TYPICALLY.

STRUCTURAL STEEL

- 1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", LATEST EDITION.
- 2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY, AWS DI.I.
- 3. BOLTS AND BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS" AS APPROVED BY THE COUNCIL ON RIVETED AND BOLTED JOINTS. USE BEARING TYPE BOLTS WITH THREADS ALLOWED ACROSS THE SHEAR PLANE. ANCHOR BOLTS SHALL CONFORM TO ASTM A-36.
- 4. ALL BEAM CONNECTIONS SHALL BE STANDARD DOUBLE ANGLE TYPE UNLESS DETAILED OTHERWISE. FOR DESIGN OF STANDARD CONNECTIONS THE LARGER OF EITHER SHEAR SHOWN ON DRAWING OR 55% OF THE TOTAL LOAD CAPACITY, DERIVED FROM THE UNIFORM LOAD CONSTANT TABLES, PART 2, EIGHTH EDITION OF THE AISC CODE WHICHEVER IS GREATER. IN NO CASE SHALL THE ANGLE SIZE AND MINIMUM NUMBER OF ROWS OF BOLTS FOR THE GIVEN BEAM SIZE BE LESS THAN THAT SHOWN IN TABLE 1, PART 4 OF THE SEVENTH EDITION OF THE AISC CODE.
- 5. STRUCTURAL STEEL SHAPES, PLATES, ETC. SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-36, UNLESS NOTED OTHERWISE. STEEL TUBES SHALL BE 46 KSI STEEL CONFORMING TO ASTM A-500.
- 6. IN GENERAL, IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT ALL SHOP CONNECTIONS BE WELDED OR BOLTED AND ALL FIELD CONNECTIONS BE BOLTED EXCEPT WHERE NOTED OTHERWISE.
- 1. VERIFY THE EXACT LOCATION AND SIZE OF ALL ROOF AND FLOOR OPENINGS FOR MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION OF MATERIALS. SEE TYPICAL DETAIL FOR FRAMING AROUND OPENINGS.
- 8. ALL STEEL BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER (WITHIN THE MILL TOLERANCE) LOCATED ABOVE THE HORIZONTAL CENTERLINE BETWEEN THE END CONNECTIONS.
- 9. STEEL SHAPES, PLATES, ETC. WHICH ARE EXPOSED TO WEATHER SHALL BE GALYANIZED.
- 10. PROVIDE ONE COAT OF STANDARD SHOP PAINT ON ALL UNGALVANIZED PIECES EXCEPT AT AREAS TO BE FIELD WELDED.

- 11. TOUCH UP FIELD WELDS AND ANY DAMAGED AREAS OF PAINT IN FIELD AFTER WELDING. (USE GALYANIZING PAINT FOR TOUCH UP OF GALYANIZED STEEL).
- 12. HEADED STUDS SHALL BE NELSON TYPE OR EQUAL. WELD HEADED STUDS TO EMBEDDED PLATES TO DEVELOP THE FULL TENSION CAPACITY OF THE STUD.
- 13. ALL WELDS SHALL BE VISUALLY INSPECTED BY AN APPROVED LICENSED TESTING. COMPANY. SEE SPECIFICATIONS FOR ADDITIONAL TESTING REQUIREMENTS.
- 14. ALL STEEL TO STEEL CONNECTIONS NOT SHOWN BOLTED SHALL BE WELDED TO DEVELOP FULL SHEAR CAPACITY OF CONNECTING MEMBERSAS PER AISC SPECIFICATIONS. MINIMUM SIZE OF FILLET WELD (UNLESS NOTED OTHERWISE ON DRAWINGS):

MATERIAL THICKNESS OF MINIMUM SIZE OF THICKER PART JOINED OF FILLET WELD

TO 1/4" INCLUSIVE 1/8" ALL AROUND TO 1/4" TO 1/2" 3/16" ALL AROUND OVER 1/2" TO 3/4" 1/4" ALL AROUND 5/16" ALL AROUND

WOOD CONSTRUCTION

- 1. WOOD CONSTRUCTION SHALL CONFORM TO THE NFPA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", LATEST EDITION.
- 2. ALL WALL STUDS AND MISC. WOOD FRAMING SHALL BE NO.2 SOUTHERN YELLOW PINE. STUDS FOR LOAD BEARING WALLS SHALL BE AS FOLLOWS:

FIRST FLOOR

2-2x6 @ 16" O.C. W/ 10d NAIL @ 10" O.C. (U.N.O)

5ECOND FLOOR

2-2x6 @ 16" O.C. W/ 10d NAIL @ 10" O.C. (U.N.O)

THIRD FLOOR

2x6 @ 16" O.C. (U.N.O)

FIRST FLOOR

2x6 @ 16" O.C. (U.N.O)

FIFTH FLOOR

2x6 @ 16" O.C. (U.N.O)

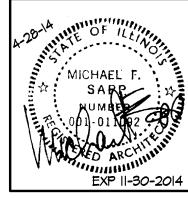
- ALL THE EXTERIOR STUD WALL MEMBERS SHALL BE FIRE RETARDANT TREATED, ALL THE INTERIOR STUD SHALL BE REGULAR WOOD STUD.
- ALL NON-LOAD BEARING PARTITIONS SHALL CONSIST OF 2x4 OR 2x6 STUDS SPACED AT 16"
 O.C. DEPENDING ON LOCATION. STUDS DO NOT NEED TO BE DOUBLED AT THE FIRST FLOOR
 FOR NON-LOAD BEARING PARTITIONS ONLY.
- 3. PLACE A SINGLE PLATE AT THE BOTTOM AND A TRIPLE PLATE AT THE TOP OF ALL STUD WALLS AT FIRST FLOOR. 2x SOLE PLATES AT THE EDGES OF SLABS SHALL BE ATTACHED TO THE SLAB WITH 1/2" DIA. EPOXY ANCHORS, WITH 4" EMBEDMENT, WITH 1 1/2" DIA WASHER, AT 32" ON CENTER, OR 1/2" DIA ANCHORS, WITH 1" EMBEDMENT, WITH 1 1/2" DIA WASHER, AT 32" ON CENTER, AT INTERIOR STUD WALLS PROVIDE EITHER RED HEAD 1516SDC (WITH 2 1/2" LENGTH) POWDER DRIVEN FASTENERS WITH 1 1/2 DIA WASHER AT 8" ON CENTER, OR 1/2" DIA EXPANSION ANCHORS, WITH 4" EMBEDMENT, WITH 1 1/2" DIA WASHER, AT 32" ON CENTER, OR 1/2" DIAMETER ANCHORS WITH 6" EMBEDMENT, WITH 1 1/2" WASHER, AT 32" ON CENTER, ALL OTHER SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
- 4. ALL WOOD IN CONTACT WITH CONCRETE OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED. PROVIDE GALVANIZED NAILS AND FASTENERS IN PRESSURE TREATED LUMBER.
- 5. STUDS SHALL BE TRIPLED AT ALL ANGLES, CORNERS AND AROUND ALL OPENINGS.
- 6. WHERE WOOD BEAMS/HEADERS ABOUT WOOD COLUMNS, PROVIDE SIMPSON "HHUC" CONNECTORS WITH ALL NAILS SPECIFIED BY THE MANUFACTURER.
- 7. WALL SHEATHING SHALL BE: (SEE SHEAR WALL SCHEDULE BELOW FOR REQUIREMENTS AT SHEAR WALLS.)
- AT INTERIOR BEARING WALLS PROVIDE 1/2" OR 5/8" GYPSUM WALLBOARD (SEE ARCH DRAWINGS FOR LOCATIONS) EACH SIDE OF STUDS, NAILED WITH 6d COOLER NAILS AT 7" O.C. AT ALL SUPPORTS PROVIDE SOLID 2x BLOCKING AT ALL SHEET EDGES. BLOCKING 15 NOT REQUIRED AT NON-LOAD BEARING PARTITIONS.
- AT EXTERIOR WALLS SHEATH THE INTERIOR FACE OF WALLS WITH GYPSUM WALLBOARD AS NOTED ABOVE FOR INTERIOR WALLS. SHEATH THE EXTERIOR FACE OF WALLS WITH 1/2" C-DX PLYWOOD WITH FIRE RETARDANT TREATED, NAILED WITH 8d NAILS AT 6" O.C. AT ALL EDGE AND INTERMEDIATE SUPPORTS. PROVIDE SOLID DOUBLE 2x BLOCKING AT ALL SHEET EDGES. LAY UP ALL EXTERIOR WALL SHEATHING PER SHEARWALL SCHEDULE NOTE 5.
- 8. FLOOR SHEATHING IS 3/4" TONGUE AND GROOVE C-C PLYWOOD, OR 3/4" O.S.B., GLUED AND NAILED WITH 10/2 NAILS AT 6" O.C. AT SUPPORTED EDGES, AND 10/2 NAILS AT 12" O.C. AT INTERMEDIATE SUPPORTS. ALL SHEATHING AT BALCONY SHALL BE PRESSURE TREATED. PROVIDE GALVANIZED NAILS AND FASTERNERS IN PRESSURE TREATED LUMBER.
- 9. ROOF SHEATHING SHALL BE 5/8" CDX PLYWOOD, NAILED
 TO TRUSSES BELOW. SEE ROOF SHEATHING NAILING SCHEDULE FOR NAIL PATTERN.
 PROVIDE ONE PLYWOOD CLIP PER SPAN BETWEEN SHEET EDGES FOR 24" SPAN.
 PROVIDE TWO PLYWOOD CLIP PER SPAN BETWEEN SHEET EDGES FOR 48" SPAN.
 PROVIDE SOLID 2x BLOCKING BETWEEN SUPPORTS AT ALL HIPS, RIDGES, VALLEYS, AND CHANGES IN ROOF SLOPE.
- 10. ALL LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED GRADING AGENCY.

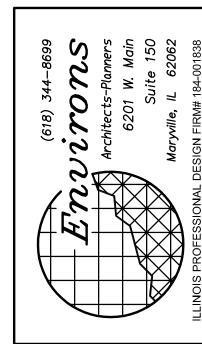
II. NAILING SCHEDULE:

CONNECTION	<u>COMMON NAIL</u>	NUMBER OR SPACING
SOLE PLATE TO TRUSS OR BLOCKING	16d	8" O.C.
STUD TO SOLE PLATE, TOE NAIL	8d	4
DOUBLE STUDS, FACE NAIL	16d	12" O.C.
DOUBLE TOP PLATES, FACE NAIL	16d	12" O.C.
TOP PLATES LAPS AND INTERSECTIONS	16d	3
TRUSSES, LAPS OVER WALLS, FACE NAIL	16d	4
BUILT-UP CORNER STUDS	16d	12" O.C.
STUDS TO SOLE PLATE, END NAIL	16d	2

12. WHERE NAILING INTO PRESSURE TREATED WOOD, NAILS MUST BE HOT DIPPED GALVANIZED TO AVOID CORROSION.

WATERPROOFING FOR THIS BUILDING IS THE SOLE RESPONSIBILITY OF THE BUILDER/CONTRACTOR/ARCHITECT, HENCE NO DETAILS OF FLASHING, FLOOR, SLOPE AND STEP, NOR ANY OTHER WATERPROOFING MEASURES HAVE BEEN INCLUDED IN OUR DRAWINGS. IF SLOPE AND FLOOR STEPS ARE SHOWN ON OUR DRAWINGS, THEY SHALL BE USED ONLY AS A REFERENCE. FLOOR SLOPE AND STEPS SHALL FOLLOW ARCHITECTURAL DRAWINGS.





JOB NO.

DATE:

DECEMBER II, 2013

REVISED: \text{\text{\text{\text{\text{\text{FEBRUARY 20, 2014}}}}

PRECAST OPTION
APRIL 28, 2014



SHRINAY CORPORATION

WWW.SHRINAY.COM

TEL - 847-754-1064

SQUARE APARTMENTS

A NEW APARTMENT BUI CARDINAL SQUAR

STRUC.

SHEET

*O*F 13

PLAN NOTES:

- 1 SEE SHEET SØ FOR GENERAL NOTES.
- 2 DO NOT SCALE DRAWINGS. SEE ARCH'L. DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN, VERIFY ALL DIMENSIONS WITH ARCH'L. DRAWINGS PRIOR TO START OF CONSTRUCTION. IF DISCREPANCIES SHOULD OCCUR CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATION BEFORE PROCEEDING.
- PROVIDE CORNER BARS WHERE ALL FOOTINGS AND / OR TURN DOWN SLAB EDGES CHANGE DIRECTION AND AT FOOTINGS AND / OR TURN DOWN SLAB EDGE INTERSECTIONS. SEE DETAIL SHEET FOR FURTHER INFORMATION.
- #5 @ 12" O.C. EA FACE VERTICALLY AND #4 @ 12" O.C.
 HORIZONTALLY EA FACE OF WALL, PLACE (6) ADDITIONAL #5
 VERTICALLY AT EACH WALL END AND EA SIDE OF OPENING.

- 5 SEE ARCH'L. DRAWINGS FOR LOCATION / LIMITS AND CONSTRUCTION INFORMATION OF INTERIOR NON-BEARING PARTITION WALLS NOT SHOWN ON PLAN. (SEE SO FOR ADDITIONAL WALL FRAMING INFORMATION)
- 6 STEEL STAIR: SEE ARCH'L. DRAWINGS FOR STAIR CONSTRUCTION INFORMATION AND GEOMETRY. FOR ATTACHMENT / SUPPORT THERE OF, COORDINATE WITH STEEL STAIR MANUFACTURER / SUPPLIER'S APPROVED SHOP DRAWINGS.
- FIRST FLOOR CONSTRUCTION: 4" (TOTAL) CONCRETE SLAB
 REINFORCED WITH 6x6-W2.1xW2.1 W.W.F. OVER 6 MIL VAPOR
 BARRIER ON COMPACTED SUBGRADE. COORDINATE ANY
 AND ALL SLAB SLOPES, DEPRESSIONS AND LIMITS THERE OF WITH
 ARCH'L. DRAWINGS (FOR ACTUAL TOP OF SLAB ELEVATIONS, SEE
 ARCH'L. AND / OR CIVIL DRAWINGS)
- THE MAXIMUM SPACING OF SLAB CONTROL JOINTS FOR INCLOSED / INTERIOR AREAS SHALL NOT EXCEED 20' +/- OC (EACH WAY) AND FOR OUTSIDE / EXTERIOR AREAS SHALL NOT EXCEED 10' +/- OC C.G. SHALL SUBMIT PROPOSED CONTROL JOINTS LOCATION.
- 9 COORDINATE SLAB RECESSES, SLOPES AND ELEVATIONS W/ ARCHITECTURAL DRAWINGS
- CC-1: PRE-CAST CONCRETE COLUMN DESIGN BY OTHERS

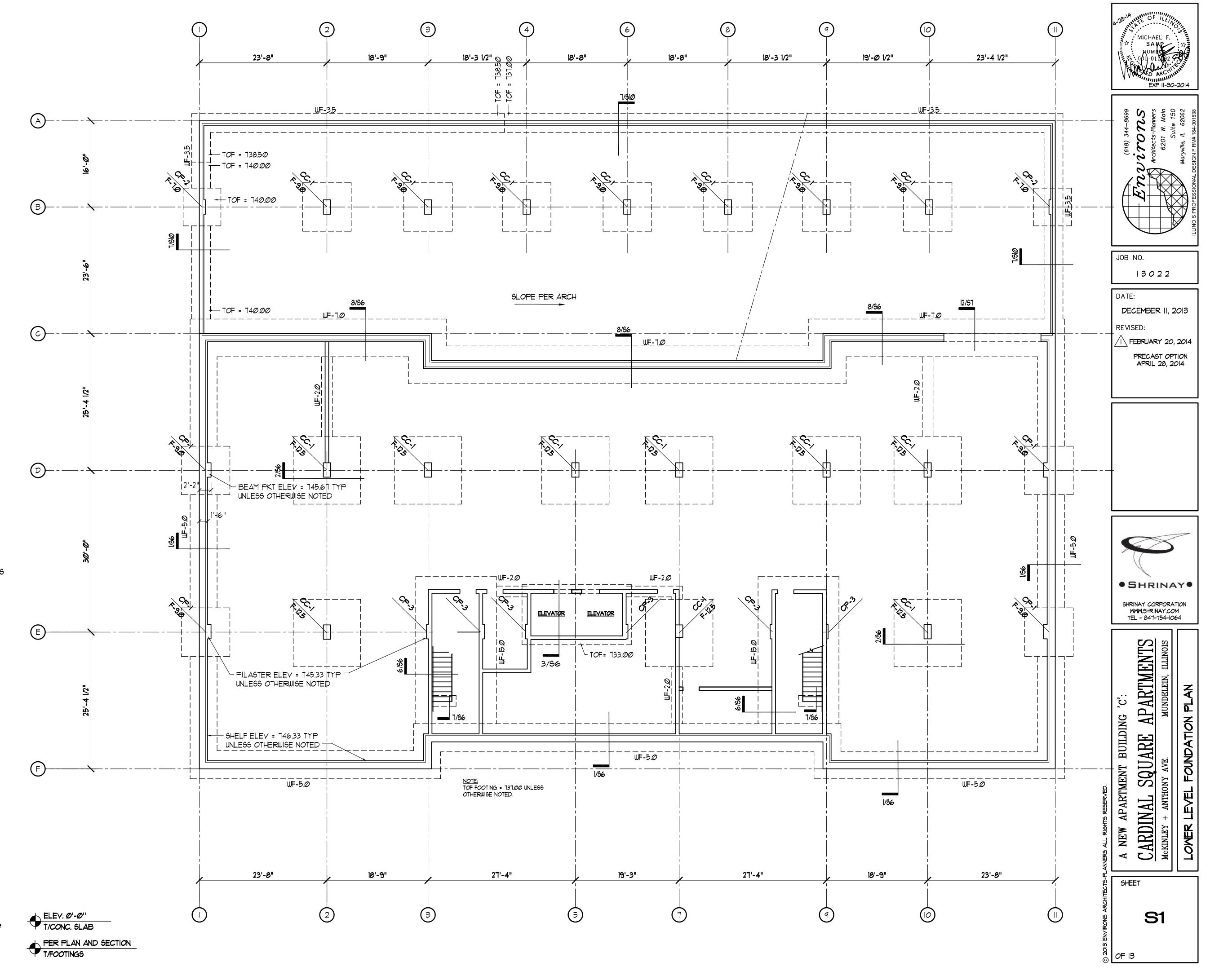
 CP-1: 26×32 CONC PILASTER W/ (10) *1 VERT. AND *3 TIES AT 10" O.C.

 CP-2: 14×32 CONC PILASTER W/ (8) *1 VERT. AND *3 TIES AT 10" O.C.

 CP-3: 12×32 CONC PILASTER W/ (8) *1 VERT. AND *3 TIES AT 10" O.C.

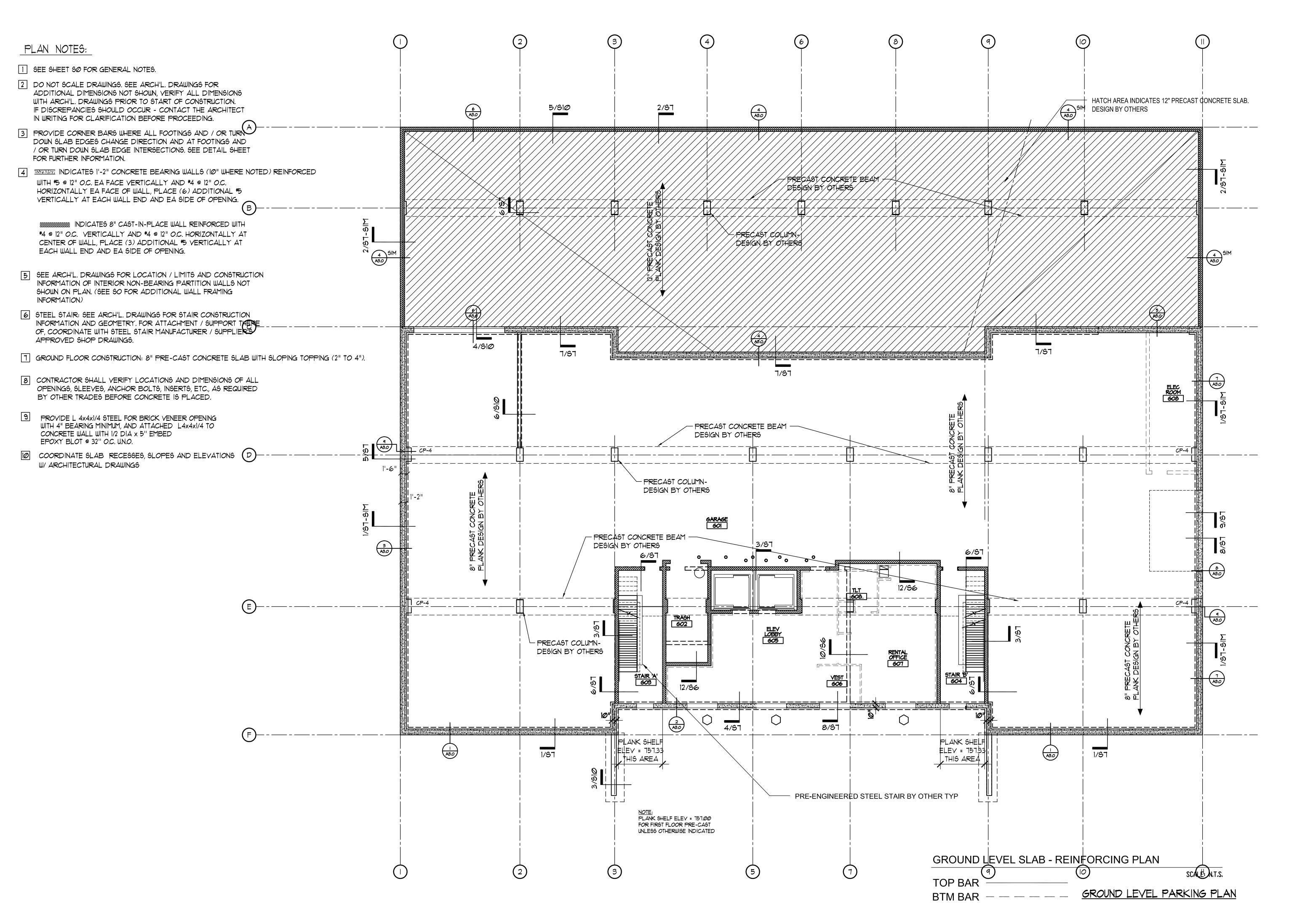
 CP-4: 18×32 CONC PILASTER W/ (8) *1 VERT. AND *3 TIES AT 10" O.C.
- COORDINATE STEP FOOTING LOCATION W/ ARCHITECTURAL DRAWINGS STEP FOOTING DETAIL SEE 9/56.

FOOTING SCHEDULE								
MARK	SIZE WIDTH X LENGTH X DEPTH	REINFORCEMENT BOTTOM						
	WID IAX ELINGIAX DEI IA							
₩F-2 <i>.</i> Ø	2'-0"× CONT × 1'-0"	(3) #5 CONT. LONG WAY #5 @ 48" O.C. SHORT WAY						
WF-3.5	3'-6"x CONT x 1'-0"	(4) #5 CONT. LONG WAY #5 @ 16" O.C. SHORT WAY						
WF-5.0	5'-0"x CONT x 1'-0"	(5) #5 CONT. LONG WAY #5 @ 8" O.C. SHORT WAY						
WF-7.0	7'-Ø"x CONT x 1'-2"	(7) #5 CONT. LONG WAY #5 @ 6" O.C. SHORT WAY						
WF-15.00	15'-0"x CONT x 1'-2"	(15) *5 CONT. LONG WAY *5 @ 6" O.C. SHORT WAY						
F-7.Ø	7'-Ø"x1'-Ø"x1'-8"	(8) #T EACH WAY						
F-9.Ø	9'-0"x9'-0"x1'-8"	(10) #7 EACH WAY						
F-12.5	12'-6"×12'-6"×2'-4"	(14) *1 EACH WAY						

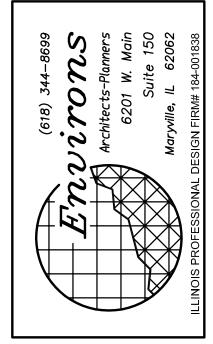


FOUNDATION PLAN

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







DECEMBER II, 2013
REVISED:

FEBRUARY 20, 2014

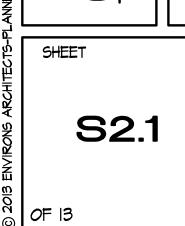
PRECAST OPTION

APRIL 28, 2014



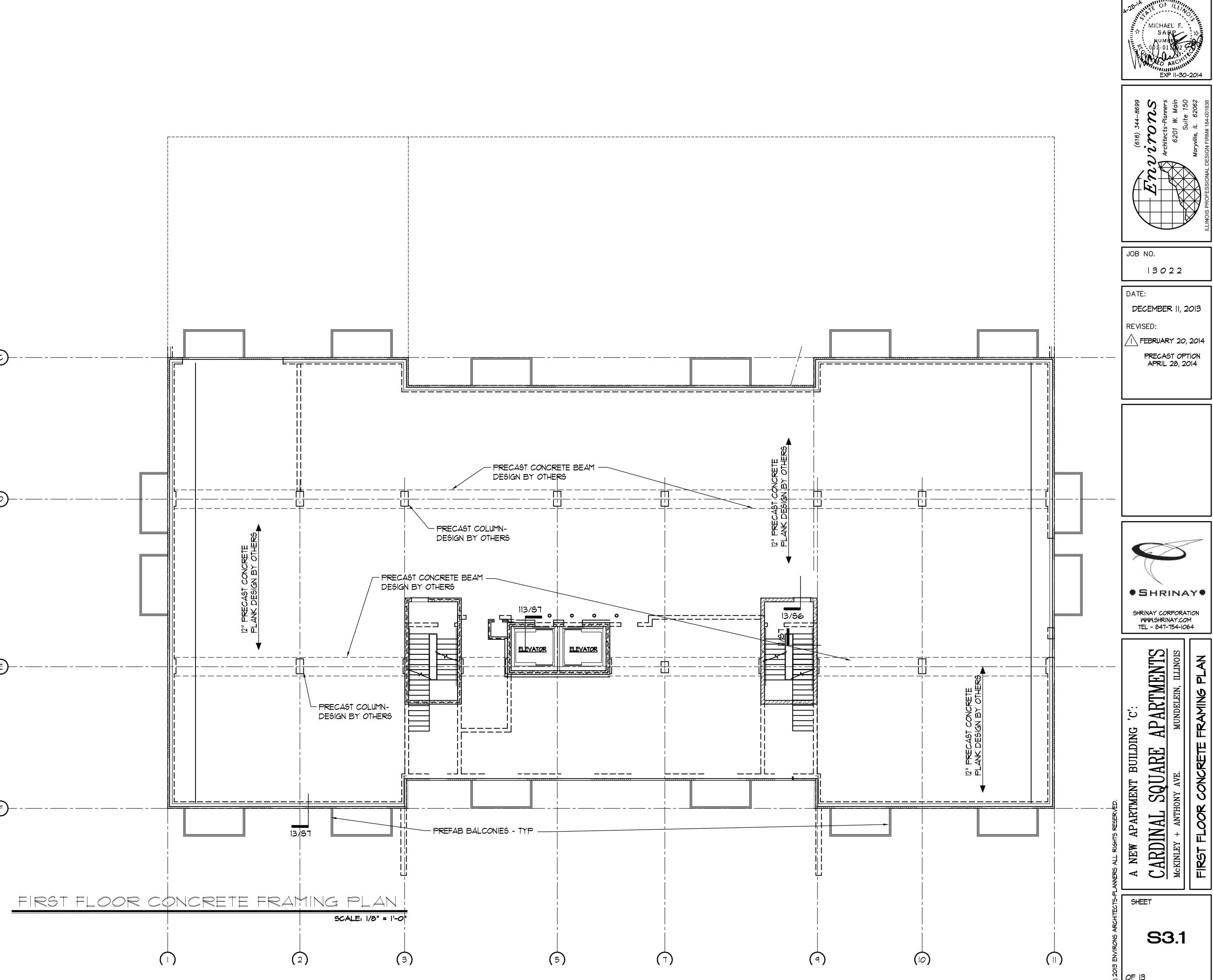
CARDINAL SQUARE APARTMENTS

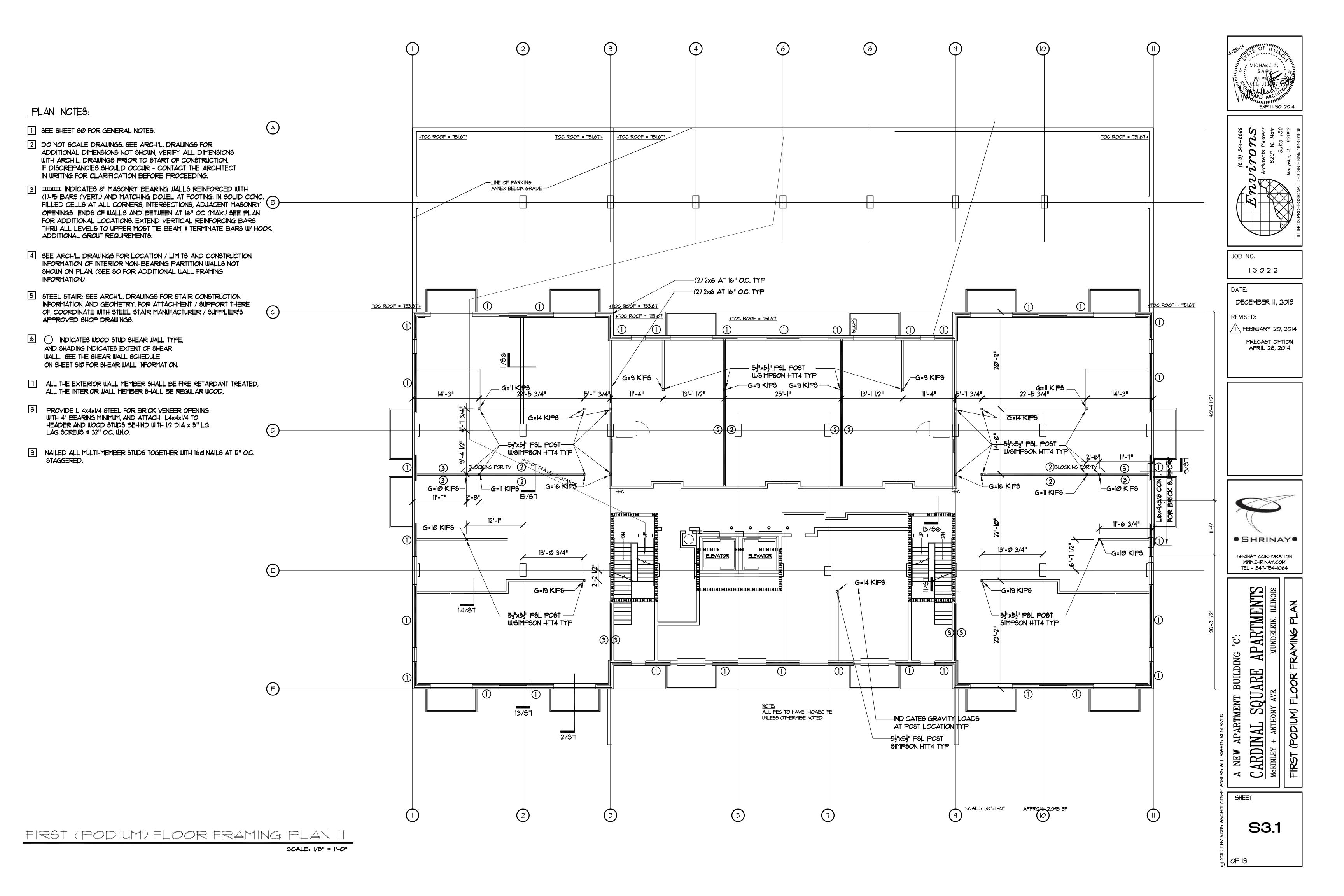
MCKINLEY + ANTHONY AVE. MUNDELEIN, ILLINOIS



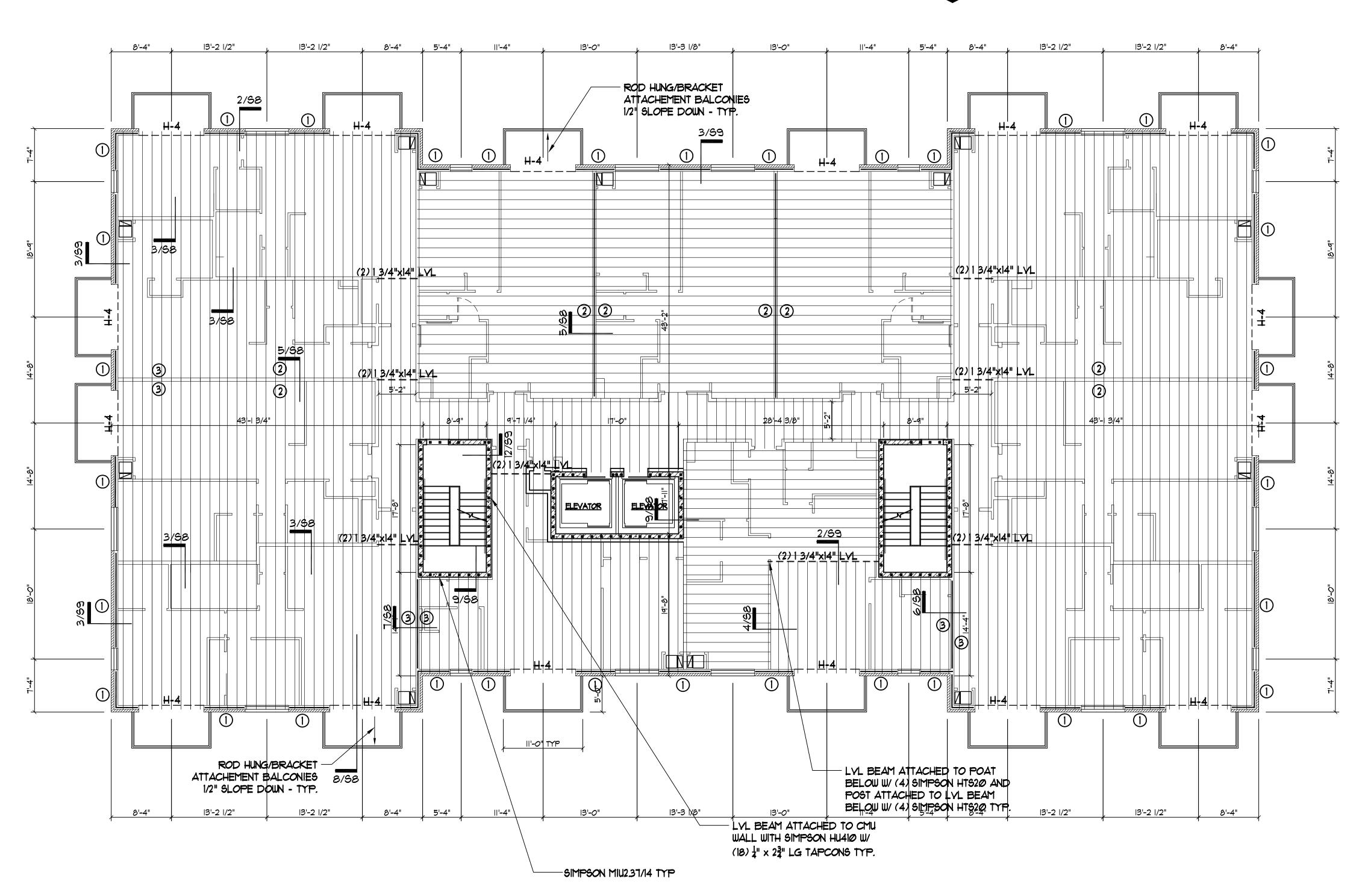
PLAN NOTES:

- 1 SEE SHEET SØ FOR GENERAL NOTES.
- 2 DO NOT SCALE DRAWINGS. SEE ARCH'L. DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN, VERIFY ALL DIMENSIONS WITH ARCH'L. DRAWINGS PRIOR TO START OF CONSTRUCTION. IF DISCREPANCIES SHOULD OCCUR CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATION BEFORE PROCEEDING.
- 3 MASONRY BEARING WALLS REINFORCED WITH (1)-#5 BARS (VERT.) AND MATCHING DOWEL AT FOOTING, IN SOLID CONC. FILLED CELLS AT ALL CORNERS, INTERSECTIONS, ADJACENT MASONRY OPENINGS ENDS OF WALLS AND BETWEEN AT 16" OC (MAX.) SEE PLAN FOR ADDITIONAL LOCATIONS. EXTEND VERTICAL REINFORCING BARS THRU ALL LEVELS TO UPPER MOST TIE BEAM & TERMINATE BARS W/ HOOK ADDITIONAL GROUT REQUIREMENTS:
- 4 SEE ARCH'L. DRAWINGS FOR LOCATION / LIMITS AND CONSTRUCTION INFORMATION OF INTERIOR NON-BEARING PARTITION WALLS NOT SHOWN ON PLAN. (SEE SO FOR ADDITIONAL WALL FRAMING INFORMATION)
- 5 PRECAST CONCRETE SLAB THICKNESS IS 12" WITH 4" TOPPING SLAB.
- 6 SEE DETAILS FOR REINFORCING AT SLAB OPENINGS.
- 1 WALL OPENINGS FOR MEP CHASES SHALL BE NO MORE THAN 3'-0" WIDE.
- 8 COORDINATE SLAB RECESSES, SLOPES AND ELEVATIONS W/ ARCHITECTURAL DRAWINGS

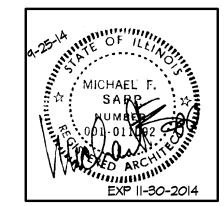


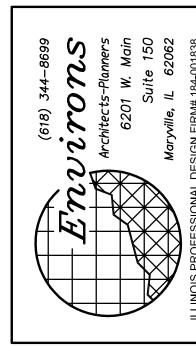


- SEE SHEET SØ FOR GENERAL NOTES.
- DO NOT SCALE DRAWINGS. SEE ARCH'L. DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN, VERIFY ALL DIMENSIONS WITH ARCH'L. DRAWINGS PRIOR TO START OF CONSTRUCTION. IF DISCREPANCIES SHOULD OCCUR CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATION BEFORE PROCEEDING.
- IIIIIIII INDICATES 8" MASONRY BEARING WALLS REINFORCED WITH
 (1)-#5 BARS (VERT.) AND MATCHING DOWEL AT FOOTING, IN SOLID CONC.
 FILLED CELLS AT ALL CORNERS, INTERSECTIONS, ADJACENT MASONRY
 OPENINGS ENDS OF WALLS AND BETWEEN AT 16" OC (MAX.) SEE PLAN
 FOR ADDITIONAL LOCATIONS. EXTEND VERTICAL REINFORCING BARS
 THRU ALL LEVELS TO UPPER MOST TIE BEAM & TERMINATE BARS W/ HOOK
 ADDITIONAL GROUT REQUIREMENTS:
- 4 SEE ARCH'L. DRAWINGS FOR LOCATION / LIMITS AND CONSTRUCTION INFORMATION OF INTERIOR NON-BEARING PARTITION WALLS NOT SHOWN ON PLAN. (SEE SO FOR ADDITIONAL WALL FRAMING INFORMATION)
- PROVIDE WOOD HEADER OVER ALL OPENINGS
 IN WOOD WALLS (COORD. EXACT SIZE, LOCATION
 AND ELEVATIONS WITH ARCH'L. DRAWINGS) IF NO
 HEADER TYPE HAS BEEN CALL-OUT ON PLAN,
 PROVIDE WOOD HEADER BASED ON HEADER
 SCHEDULE SHOWN ON SIØ SHEET.
- 6 STEEL STAIR: SEE ARCH'L. DRAWINGS FOR STAIR CONSTRUCTION INFORMATION AND GEOMETRY. FOR ATTACHMENT / SUPPORT THERE OF, COORDINATE WITH STEEL STAIR MANUFACTURER / SUPPLIER'S APPROVED SHOP DRAWINGS.
- PROVIDE MASONRY LINTEL OVER ALL OPENINGS IN MASONRY WALL (COORD. EXACT SIZE, LOCATION AND ELEVATIONS WITH ARCH'L. DRAWINGS)
 IF NO LINTEL TYPE HAS BEEN CALL-OUT ON PLAN, PROVIDE MASONRY
 LINTEL TYPE: 8FI6-IB/IT, SEE "LINTEL SCHEDULE" (ON 59 SHEET)
- PROVIDEE DOUBLE KNOCK OUT BOND BEAM WITH (1) *5 CONT. GROUT SOLID AT FLOOR AND ROOF LEVEL, UN.O.
- 9 PROVIDE 14" DEEP TJI 560 JOISTS AT 16" O.C.
- PROVIDE DOUBLE FIRE RETARDANT 2x8 AT 16" O.C. AT BALCONY.
- OORDINATE LOCATION OF FLOOR TRUSSES W/
- THE REQUIRED NUMBER OF FASTENERS FOR CONNECTORS SUCH AS NAILS TO WOOD MEMBERS, SEE SIMPSON CATALOG.
- INDICATES WOOD STUD SHEAR WALL TYPE, AND SHADING INDICATES EXTENT OF SHEAR WALL. SEE THE SHEAR WALL SCHEDULE ON SHEET SIØ FOR SHEAR WALL INFORMATION.
- 14 --- INDICATES (2) 1 3/4"x14" LYL BEAM.
- ALL THE EXTERIOR WALL MEMBERS SHALL BE FIRE RETARDANT TREATED, ALL THE INTERIOR WALL MEMBERS SHALL BE REGULAR WOOD.
- ALL THE EXTERIOR TJI BLOCKING SHALL BE FIRE RETARDANT TREATED
- PROVIDE L 4x4x1/4 STEEL FOR BRICK VENEER OPENING WITH 4" BEARING MINIMUM, AND ATTACHED L4x4x1/4 TO HEADER AND WOOD STUDS BEHIND WITH 1/2 DIA x 5" LG LAG SCREWS @ 32" O.C. UN.O.
- NAILED ALL MULTI-MEMBER STUDS TOGETHER WITH 16d NAILS AT 12" O.C. STAGGERED.
- YERIFY ALL STEPS, SLOPES AND SLAB DEPRESSIONS
 WITH ARCH'L. DRAWINGS PRIOR TO START OF CONSTRUCTION.
 IF DISCREPANCIES SHOULD OCCUR CONTACT THE ARCHITECT
 IN WRITING FOR CLARIFICATION BEFORE PROCEEDING.









DATE:

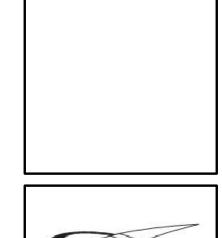
DECEMBER II, 2013

REVISED:

TEBRUARY 20, 2014

PRECAST OPTION
APRIL 28, 2014

SEPTEMBER 25, 2014
PERMIT REVIEW





BUILDING 'C':
ARE APARTMENTS

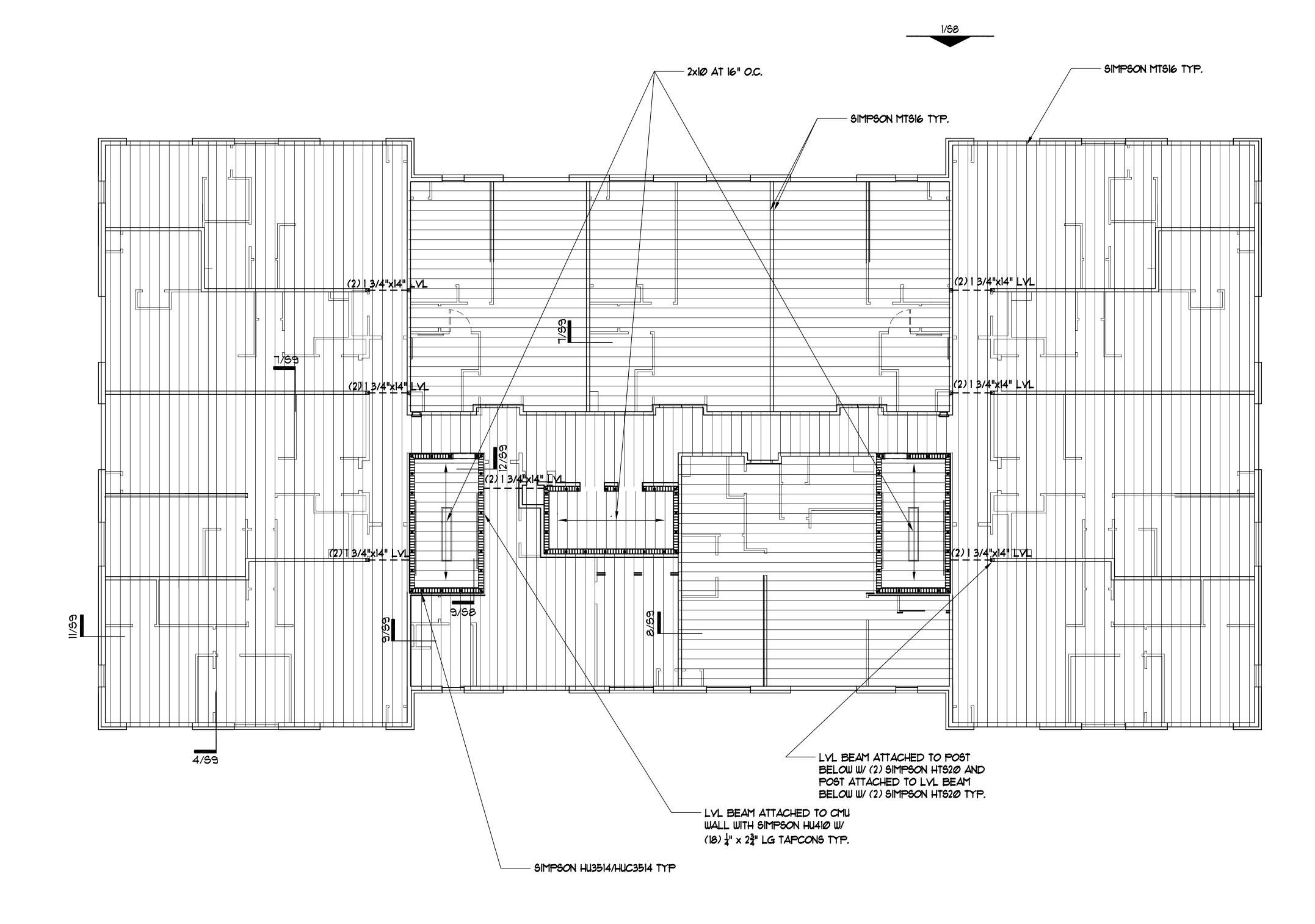
A NEW APARTMENT BUILDING CARDINAL SQUARE AMERINEY + ANTHONY AVE.

SHEET

S4

- 10

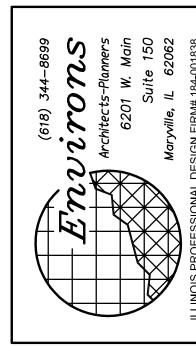
- DO NOT SCALE DRAWINGS. SEE ARCH'L. DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN, VERIFY ALL DIMENSIONS WITH ARCH'L. DRAWINGS PRIOR TO START OF CONSTRUCTION. IF DISCREPANCIES SHOULD OCCUR CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATION BEFORE PROCEEDING.
- IIIIIIII INDICATES 8" MASONRY BEARING WALLS REINFORCED WITH (1)-45 BARS (VERT.) AND MATCHING DOWEL AT FOOTING, IN SOLID CONC. FILLED CELLS AT ALL CORNERS, INTERSECTIONS, ADJACENT MASONRY OPENINGS ENDS OF WALLS AND BETWEEN AT 32" OC (MAX.) SEE PLAN FOR ADDITIONAL LOCATIONS. EXTEND VERTICAL REINFORCING BARS THRU ALL LEVELS TO UPPER MOST TIE BEAM & TERMINATE BARS W/ HOOK ADDITIONAL GROUT REQUIREMENTS:
- 4 SEE ARCH'L. DRAWINGS FOR LOCATION / LIMITS AND CONSTRUCTION INFORMATION OF INTERIOR NON-BEARING PARTITION WALLS NOT SHOWN ON PLAN. (SEE SO FOR ADDITIONAL WALL FRAMING INFORMATION)
- PROVIDE WOOD HEADER OVER ALL OPENINGS
 IN WOOD WALLS (COORD. EXACT SIZE, LOCATION
 AND ELEVATIONS WITH ARCH'L. DRAWINGS) IF NO
 HEADER TYPE HAS BEEN CALL-OUT ON PLAN,
 PROVIDE WOOD HEADER BASED ON HEADER
 SCHEDULE SHOWN ON SIØ SHEET.
- 6 STEEL STAIR: SEE ARCH'L. DRAWINGS FOR STAIR CONSTRUCTION INFORMATION AND GEOMETRY. FOR ATTACHMENT / SUPPORT THERE OF, COORDINATE WITH STEEL STAIR MANUFACTURER / SUPPLIER'S APPROVED SHOP DRAWINGS.
- PROVIDE MASONRY LINTEL OVER ALL OPENINGS IN MASONRY WALL (COORD. EXACT SIZE, LOCATION AND ELEVATIONS WITH ARCH'L. DRAWINGS) IF NO LINTEL TYPE HAS BEEN CALL-OUT ON PLAN, PROVIDE MASONRY LINTEL TYPE: 8FI6-IB/IT, SEE "LINTEL SCHEDULE" (ON 59 SHEET)
- PROVIDEE DOUBLE KNOCK OUT BOND BEAM WITH (1) *5 CONT. GROUT SOLID AT FLOOR AND ROOF LEVEL, UN.O.
- 9 PROVIDE 14" DEEP TJI 560 JOISTS AT 16" O.C.
- ELEVATOR HOIST BEAM BY OTHER.
- COORDINATE LOCATION OF FLOOR TRUSSES W/ MECH AND LOCATION OF EXHAUST FAN.
- THE REQUIRED NUMBER OF FASTENERS FOR CONNECTORS SUCH AS NAILS TO WOOD MEMBERS, SEE SIMPSON CATALOG.
- INDICATES WOOD STUD SHEAR WALL TYPE, AND SHADING INDICATES EXTENT OF SHEAR WALL. SEE THE SHEAR WALL SCHEDULE ON SHEET SIØ FOR SHEAR WALL INFORMATION.
- 14 --- INDICATES (2) 1 3/4"x14" LYL BEAM.
- ALL THE EXTERIOR WALL MEMBERS SHALL BE FIRE RETARDANT TREATED, ALL THE INTERIOR WALL MEMBERS SHALL BE REGULAR WOOD.
- EXTERIOR WALL TJI BLOCKING SHALL BE FIRE RETARDANT TREATED
- PROVIDE L 4x4x1/4 STEEL FOR BRICK VENEER OPENING WITH 4" BEARING MINIMUM, AND ATTACHED L4x4x1/4 TO HEADER AND WOOD STUDS BEHIND WITH 1/2 DIA x 5" LG LAG SCREWS @ 32" O.C. UN.O.



ROOF FRAMING PLAN

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





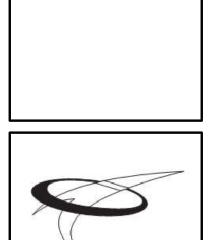
JOB NO.

DECEMBER II, 2013
REVISED:

FEBRUARY 20, 2014

PRECAST OPTION

APRIL 28, 2014



SHRINAY

SHRINAY CORPORATION

WWW.SHRINAY.COM

TEL - 847-754-1064

BUILDING 'C':

[ARE APARTMENTS]

A NEW APARTMENT BUILLI

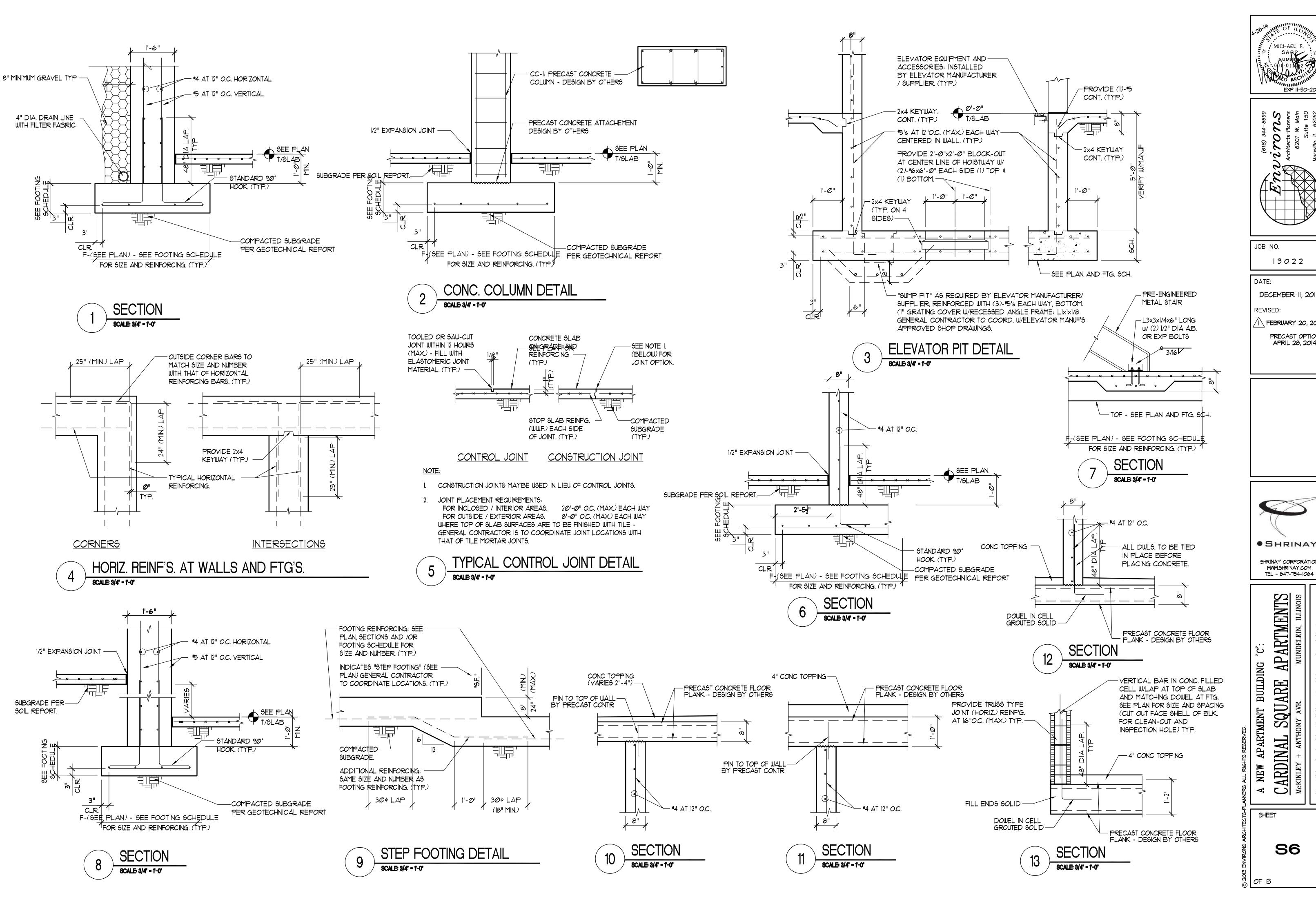
CARDINAL SQUARE

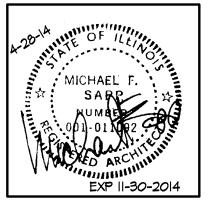
MCKINLEY + ANTHONY AVE.

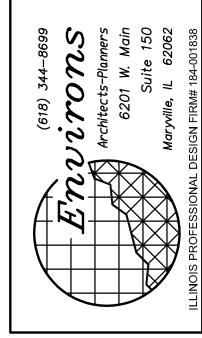
SHEET

S5

F 13







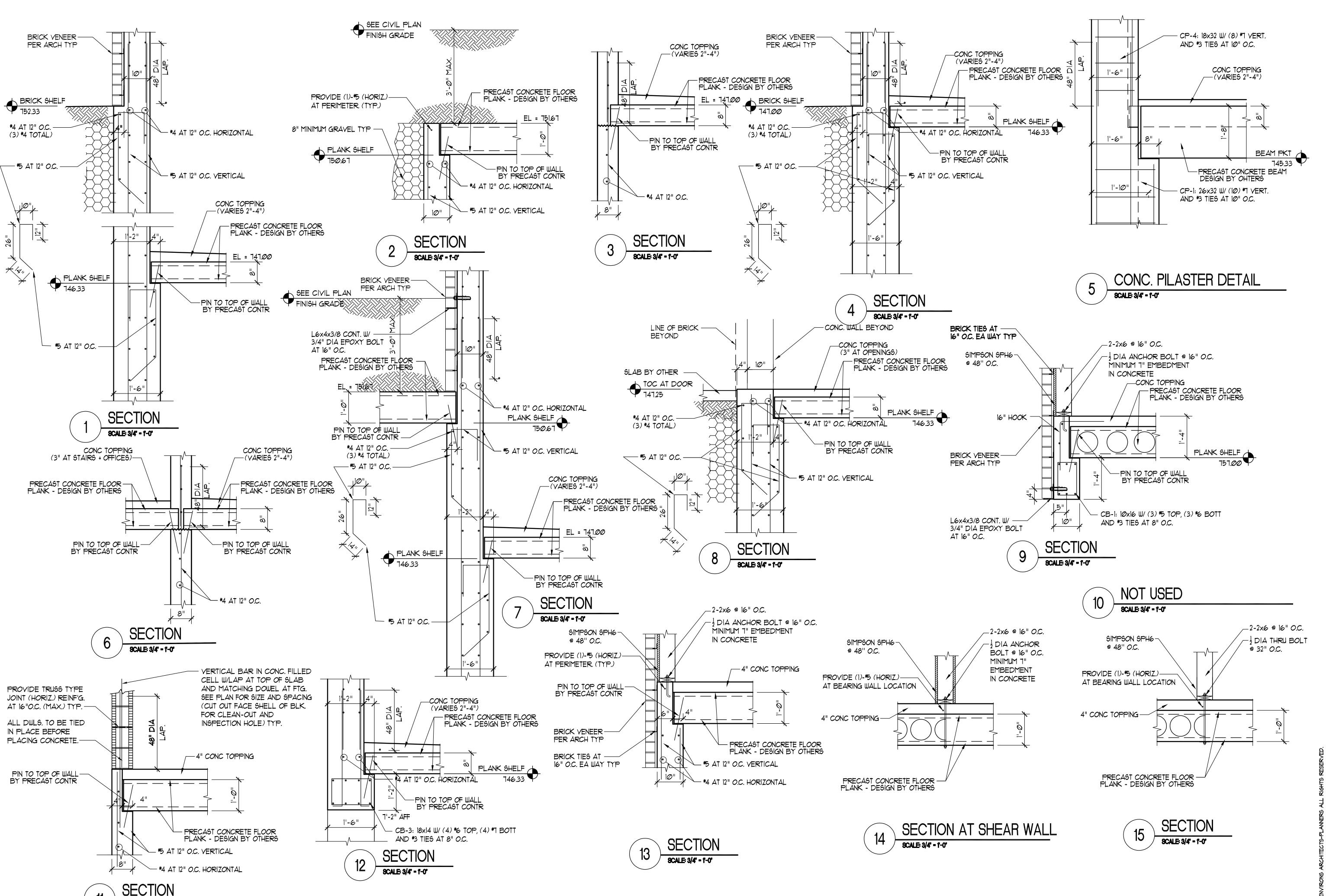
DATE: DECEMBER II, 2013 REVISED:

/I\ FEBRUARY 20, 2014 PRECAST OPTION APRIL 28, 2014

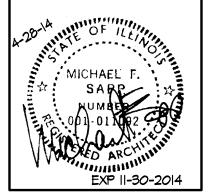
• SHRINAY SHRINAY CORPORATION WWW.SHRINAY.COM

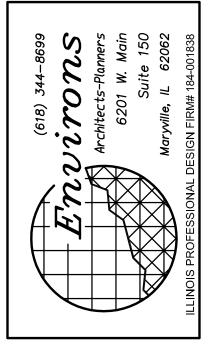
APARTMENTS MINNELEIN ILLINOIS ARE SQU

ARDIN, SHEET **S6**



SCALE: 3/4" = 1-0"





JOB NO.

DATE:

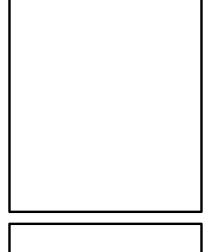
DECEMBER II, 2013

REVISED:

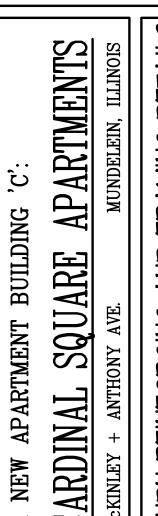
FEBRUARY 20, 2014

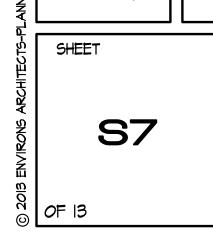
PRECAST OPTION

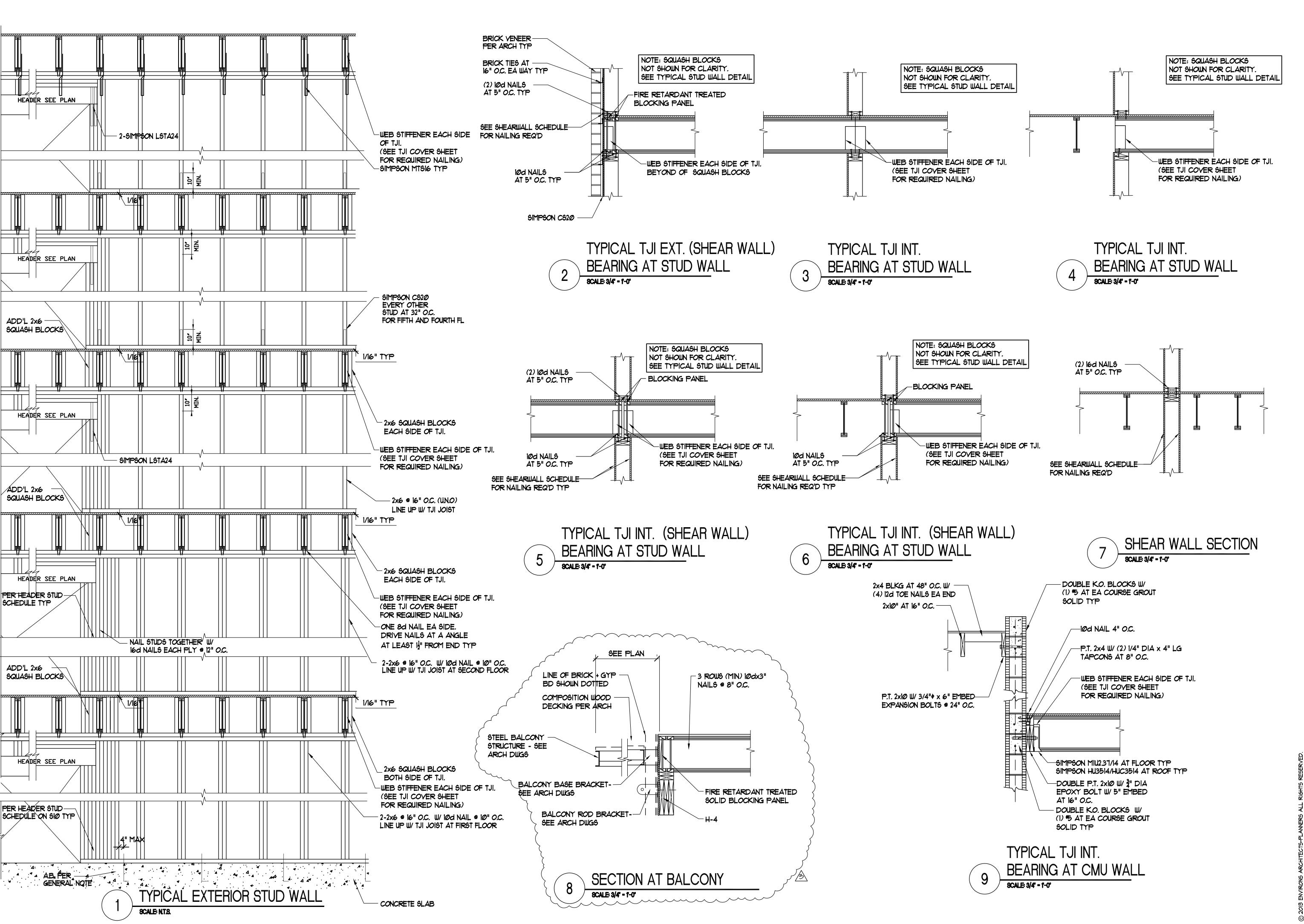
APRIL 28, 2014

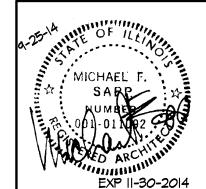


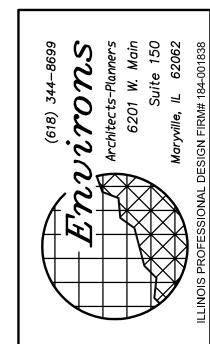






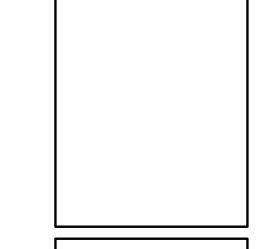






DATE: DECEMBER II, 2013

REVISED: /I\ FEBRUARY 20, 2014 PRECAST OPTION APRIL 28, 2014 乡 SEPTEMBER 25, 2014 PERMIT REVIEW



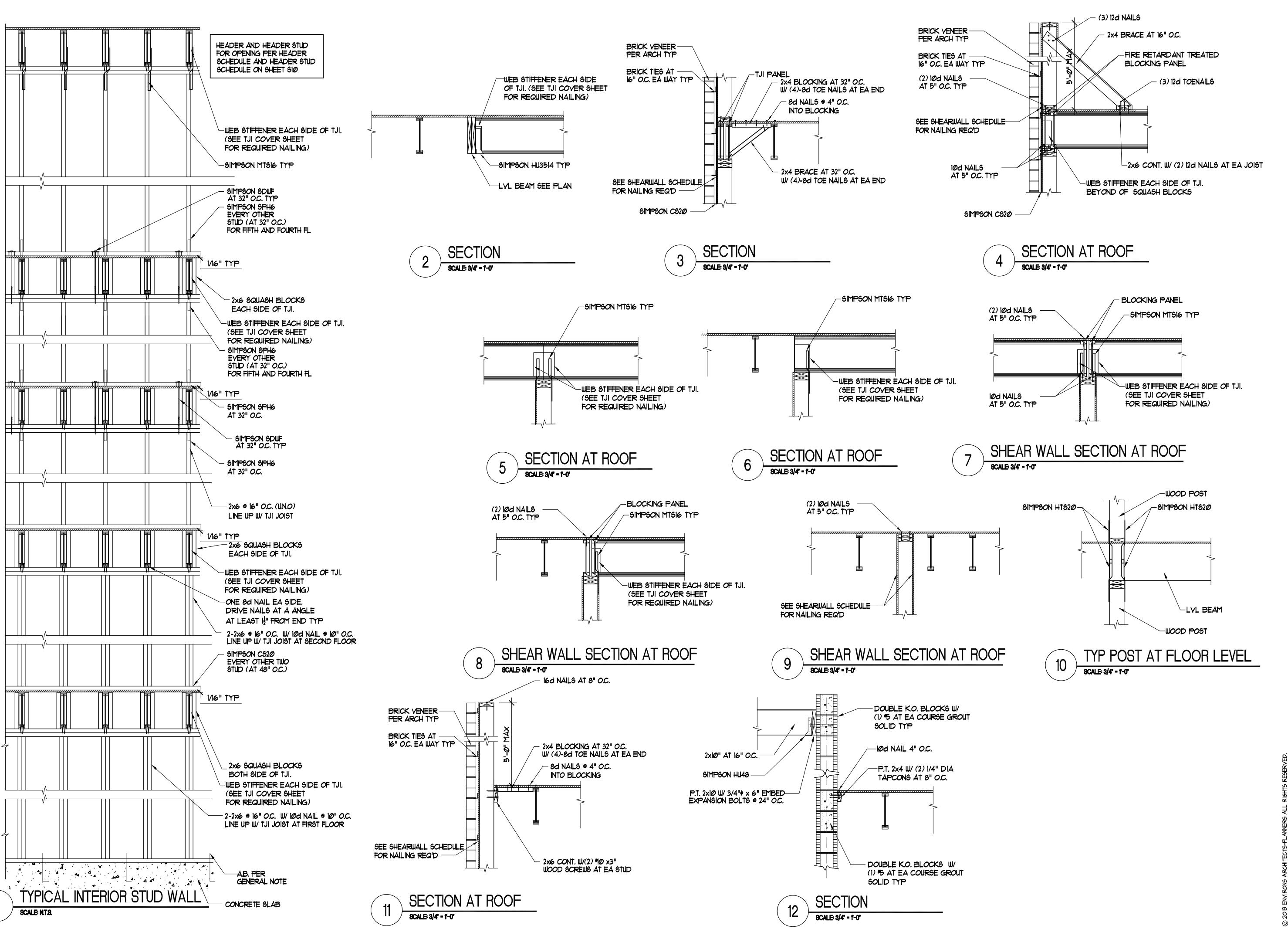


WWW.SHRINAY.COM TEL - 847-754-1064

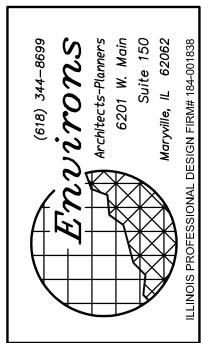
APARTMENTS

THE PROPERTY OF TH BUILDING ARE SQU ARDIN,

SHEET **S8**



MICHAEL F. SARP NUMBER 001-01 102 CA EXP II-30-2014



JOB NO. 13022

DATE: DECEMBER II, 2013 **REVISED:**

I\ FEBRUARY 20, 2014 PRECAST OPTION APRIL 28, 2014



WWW.SHRINAY.COM TEL - 847-754-1064

ARTMENTS AP. BUILDING ARE SQI ARDIN,

SHEET **S9**

			W	ער תחח פו		ALL .	SCHEDULE												
TVDE	SHEATHING	SHEATHING NAILING	:	FIRST CONN EAC	CH END OF (VALL	FND SOLE PLATE	2nd FLOC	OR CONN EACH END	OF WALL	3rd FLO	OR CONN EACH !	END OF WALL	4th FLC	OOR CONN EACH	END OF WALL	5th FLO	OOR CONN EACH E	END OF WALL
TYPE	1st-2nd FLR 2nd-ROOF @ 2 STORY 3rd-ROOF @ 3 STORY 4th-ROOF @ 4 STORY 5th-ROOF @ 5 STORY 1st-2nd FLR	2nd-ROOF @ 2 STORY 3rd-ROOF @ 3 STORY 4th-ROOF @ 4 STORY 4th-ROOF @ 4 STORY 5th-ROOF @ 5 STORY	CONNECTOR	FND BOLT-12' EMBED DBL NUT EA END	ATTACH TO STUDS	REQ'D STUDS AT END OF VALL	ATTACHMENT	CONNECTOR	NATLS EACH END DF STRAP AT STUD	REQ'D STUDS AT END OF WALL	CONNECTOR	NAILS EACH END DF STRAP AT STUD	REQ'D STUDS AT END OF VALL	CONNECTOR	NAILS EACH END OF STRAP AT STUD	REQ'D STUDS AT END OF VALL	CONNECTOR	NAILS EACH END OF STRAP AT STUD	REQ'D STUDS AT END OF VALL
1	1/2' C-D PLYVD * 8d NAILS @ 3' D.C.	8d NAILS @ 4' ILC. 8d NAILS @ 4' ILC. 8d NAILS @ 6' ILC. 8d NAILS @ 6' ILC. 8d NAILS @ 6' ILC.	НД7В	5/8" DIA	32-16d SINKERS	(4) 2x6 DR VD POST	1/2ø x 7" ANCHOR BOLTS @ 16" C.C.	2-CS20x42	18-10d	(4) 2x6	CS18x42	18-10d	(4) 2x6	CS18×42	18-10 d	(2) 2x6	CS18x42	18-10d	(2) 2x6
(5)	1/2' C-D PLYVD *2 1/2' C-D PLYVD *2 1/2' C-D PLYVD *2 5/8' GYPSUM *2 VALLBDARD 5/8' GYPSUM *2 VALLBDARD 8d NAILS @ 3' D.C.	8d NAILS @ 4" D.C. 8d NAILS @ 4" D.C. 8d NAILS @ 6" D.C. 6d CODLER NAILS @ 7" D.C. 6d CODLER NAILS @ 7" D.C.	HD7B	5/8' DIA	32-16d SINKERS	(4) 2x6 Dr VD POST	1/20 x 7" ANCHOR BOLTS @ 16" D.C.	2-CS20x42	18-10d	(4) 2x6	CS18x42	18-10d	(4) 2x6	CS18x42	18-10 d	(2) 2x6	CS18x42	18-10d	(2) 2x6
3	1/2' C-D PLYVD *2 1/2' C-D PLYVD *2 1/2' C-D PLYVD *2 5/8' GYPSUM *2 VALLBDARD 5/8' GYPSUM *2 VALLBDARD 8d NAILS @ 3' D.C.	8d NAILS @ 4" D.C. 8d NAILS @ 4" D.C. 8d NAILS @ 6" D.C. 6d CODLER NAILS @ 7" D.C. 6d CODLER NAILS	НД7В	5/8' DIA	32-16d SINKERS	(4) 2x6 Dr VD POST	1/20 x 7" ANCHOR BOLTS @ 16" D.C.	2-CS20x42	18-10d	(4) 2x6	CS18x42	18-10d	(4) 2x6	CS18x42	18-10 d	(2) 2x6	CS18x42	18-10d	(2) 2x6

- *1 SHEATH EXTERIOR FACE WITH SHEARWALL SCHEDULED, AND THE INTERIOR FACE OF STUDS AS SPECIFIED IN THE GENERAL NOTES FOR INTERIOR WALLS.
- *2 INTERIOR WALL BOTH FACE WITH SHEARWALL SCHEDULED.
- *3 TJI BLOCKING PANEL AT EVERY JOIST BETWEEN FOR SECOND AND THIRD FLOOR. TJI BLOCKING PANEL AT EVERY OTHER JOIST BETWEEN FOR FOURTH AND FIFTH FLOOR.
- *4 NO TJI BLOCKING PANEL FOR SHEAR TYPE (3)

- I ALL HD, HTT, AND CS FASTENERS ARE AS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY, INC., OR EQUAL
- 2 WHERE SCHEDULED ADDITIONAL STUDS AT THE ENDS OF SHEAR WALLS ARE INTERRUPTED AT TRUSS BEARING, PROVIDE SOLID BLOCKING IN THE TRUSS SPACE TO MATCH THE STUDS SCHEDULED FOR THE LOWER FLOOR.
- 3 WHERE SCHEDULED SHEATHING CANNOT EXTEND FULL HEIGHT OF WALL, PROVIDE SHEATHING OR BLOCKING BETWEEN FLOOR TRUSSES AT ALL SHEARWALLS.
- 4 SHEATHING SHALL EXTEND FULL HEIGHT OF SHEARWALLS. STAGGER SHEATHING HORIZONTAL JOINTS SO THEY DO NOT FALL AT HORIZONTAL JOINT BETWEEN DOUBLE TOP PLATES.
- 5 WHEREVER THE SHEATHING OF A SHEAR WALL IS INTERRUPTED (I.E. BY AN INTERSECTING WALL) IN THE VERTICAL PLANE, THE SCHEDULED "ADD'L STUD AT END OF WALL" AND HOLDDOWN ANCHORS SHALL BE PROVIDED AT THE END OF THE SHEATHING (ONE EACH SIDE OF THE INTERRUPTION). THE QUANTITY OF SHEARWALL CALLOUTS ON THE PLANS MAY NOT ACCURATELY REFLECT THE NUMBER OF HOLDDOWNS REQUIRED BECAUSE OF THIS. THE CONTRACTOR MUST FIRST DETERMINE WHERE THE SHEARWALL SHEATHING WILL BE INTERRUPTED BEFORE DETERMINING THE NUMBER HOLDDOWNS REQUIRED.

SHEATHING -

- 6 WHERE BOLTS ARE CALLED OUT FOR HOLDDOWN ANCHORS, THE BOLTS SHALL BE THROUGH BOLTS CONFORMING TO ASTM A3ØT.
- 1 1/16" O.S.B. MAY BE USED IN LIEU OF THE 1/16" C-DX PLYWOOD SHEATHING.
- 8 ANCHOR BOLTS SHALL ALL HAVE 3" HOOKS. A36 ALL THREAD RODS, DRILLED AND EPOXY GROUTED INTO FOOTINGS, MAY BE SUBSTITUTED FOR ANCHOR BOLTS CAST IN PLACE. ALL THREAD RODS SHALL HAVE SAME EMBEDMENT DEPTH AS ANCHOR BOLTS.

WOOD HEADER/BEAM SCHEDULE HEADER/BEAM TYPE HEADER/BEAM (2) 1 3/4"×14" LVL TRIPLE 2x6 TRIPLE 2x8 H-3 TRIPLE 2x10 (3) 1 3/4"×11 7/8" LVL

- PROVIDE WOOD HEADERS OVER ALL OPENINGS. IF NO HEADER IS
- SPECIFIED, PROVIDE H-3 AT WALLS SUPPORTING TRUSSES, AND H-1 AT OTHER WALLS. 2. AT DOUBLE OR TRIPLE 2x HEADER/BEAMS PROVIDE A 1/2" PLYWOOD (OR 0.5.B.) SPACER BETWEEN MEMBERS.
- 3. NAILED ALL MULTI-MEMBER HEADERS AND BEAMS TOGETHER WITH 16d NAILS AT 12" O.C. TOP AND BOTTOM, EACH SIDE, STAGGERED.
- 4. PROVIDE WOOD HEADER ATTACHED TO WOOD STUDS OR WOOD POST BELOW W/(2) SIMPSON LSTA24 U.N.O.
- 5. ALL THE EXTERIOR WALL HEADERS SHALL BE FIRE RETARDANT TREATED,

MINIMUM WALL AND HEADER STUD REQUIREMENTS

UPLIFT CONNECTION REQUIREMENT AT POINTS 'A'(TOP AND BOTTOM OF HEADER STUDS. UPLIFT CONNECTION IS REQUIRED AT EACH END OF HEADER AND AT BOTTOM OF HEADER STUDS IN ADDITION TO CONNECTORS AT WALL STUDS

MAXIMUM HEADER SPAN (FEET)										
3	6	9	12							
NUMBER OF HEADER STUDS SUPPORTING END OF HEADER										
2	3	4	4							

UNSUPPORTED WALL HEIGHT	STUD SPACING				ENGTH S	
10' OR LESS	DOUBLE STUDS AT 16" 16"	4 2	4 2	6	6 3	
GREATER THAN 10'	DOUBLE STUDS AT 16" 16"	4 2	4 2	6 3	8	

HEADER STUD SCHEDULE

--- #5 AT 12" O.C. VERTICAL

PLANK SHELF

- #4 AT 12" O.C. HORIZONTAL

752.67

AND #3 TIES AT 8" O.C.

CB-2: 14x16 W/ (4) \$5 TOP, (4) \$6 BOTT

ALL THE EXTERIOR WALL STUDS SHALL BE FIRE RETARDANT TREATED,

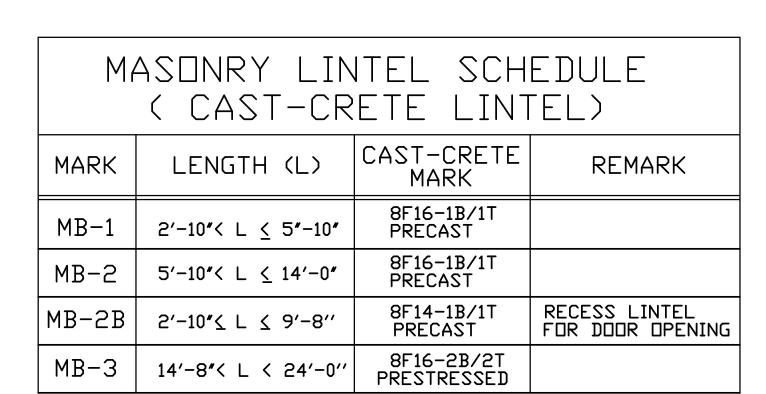
SCALE: 3/4" = 1-0"

BRICK VENEER — PER ARCH TYP

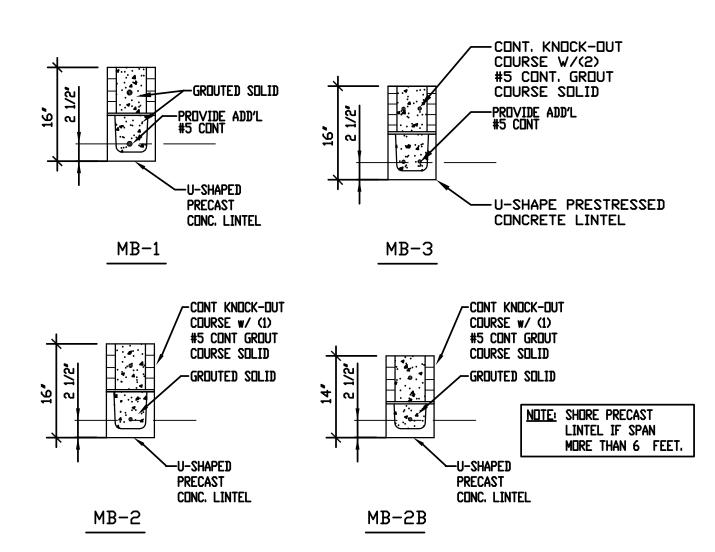
PIN TO TOP OF WALL BY PRECAST CONTR -

#4 AT 12" O.C. -

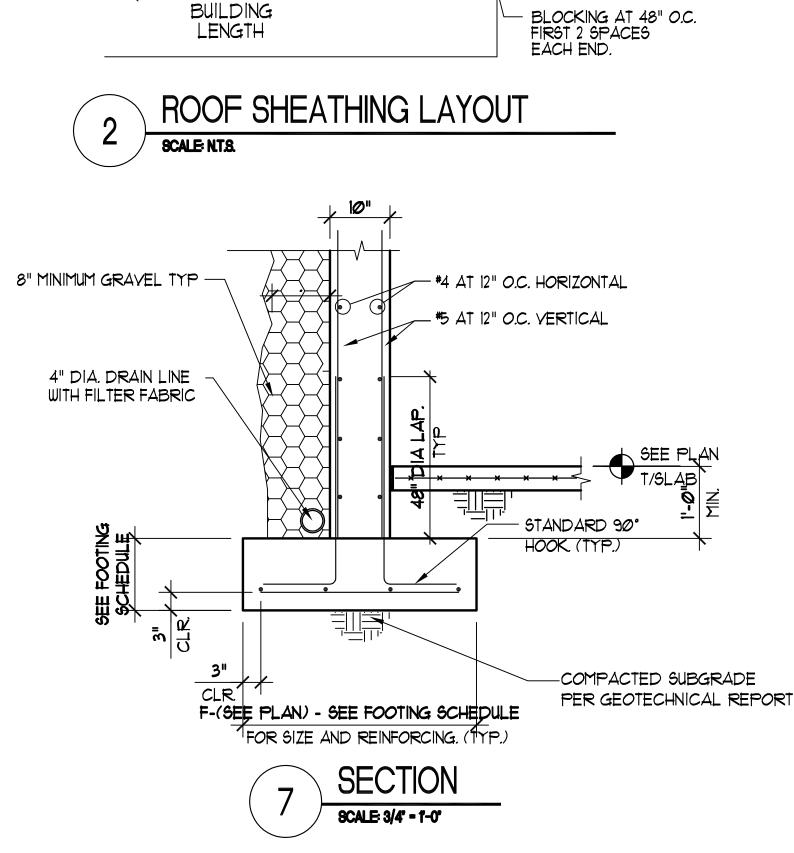
(3) *****4 **TOTAL**)



- 1. PROVIDE MASONRY LINTEL OVER ALL OPENINGS. IF NO LINTEL IS SPECIFIED, PROVIDE MB-2, AND MB-2B FOR DOOR OPENING (EXCEPT GARAGE DOOR).
- 2. PROVIDE MINIMUM END BEARING OF 8". CUT OUT BOTTOM OF LINTEL AT END TO ALLOW CONTINUATION OF FILLED CELL REINFORCING.
- 3. MASONRY LINTEL SUBSTITUTIONS MUST BE APPROVED BY ARCH.

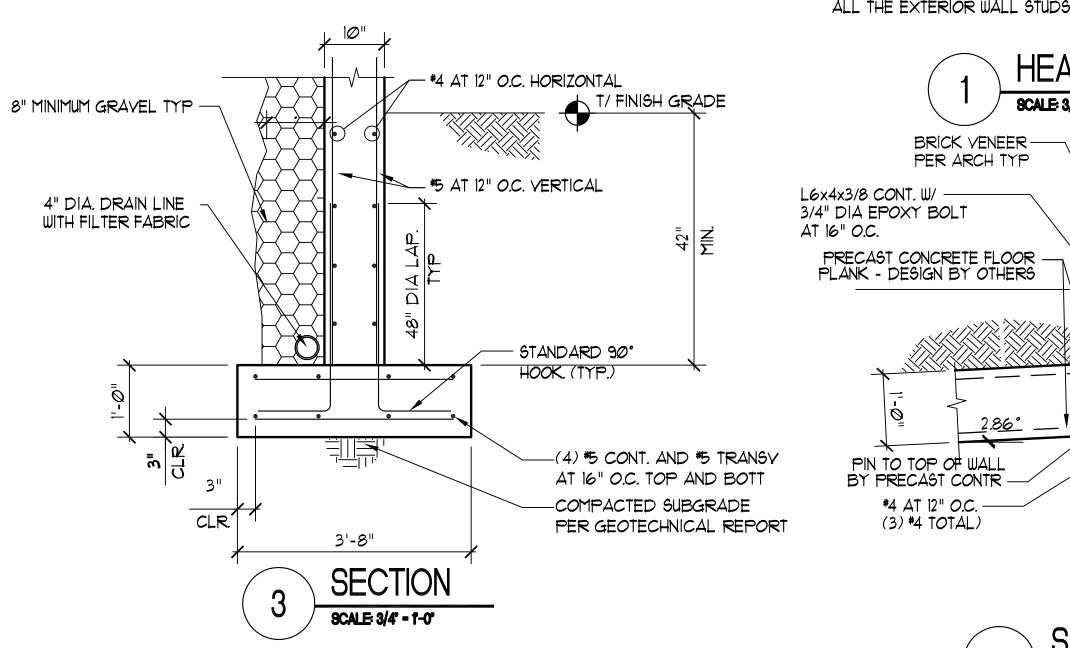


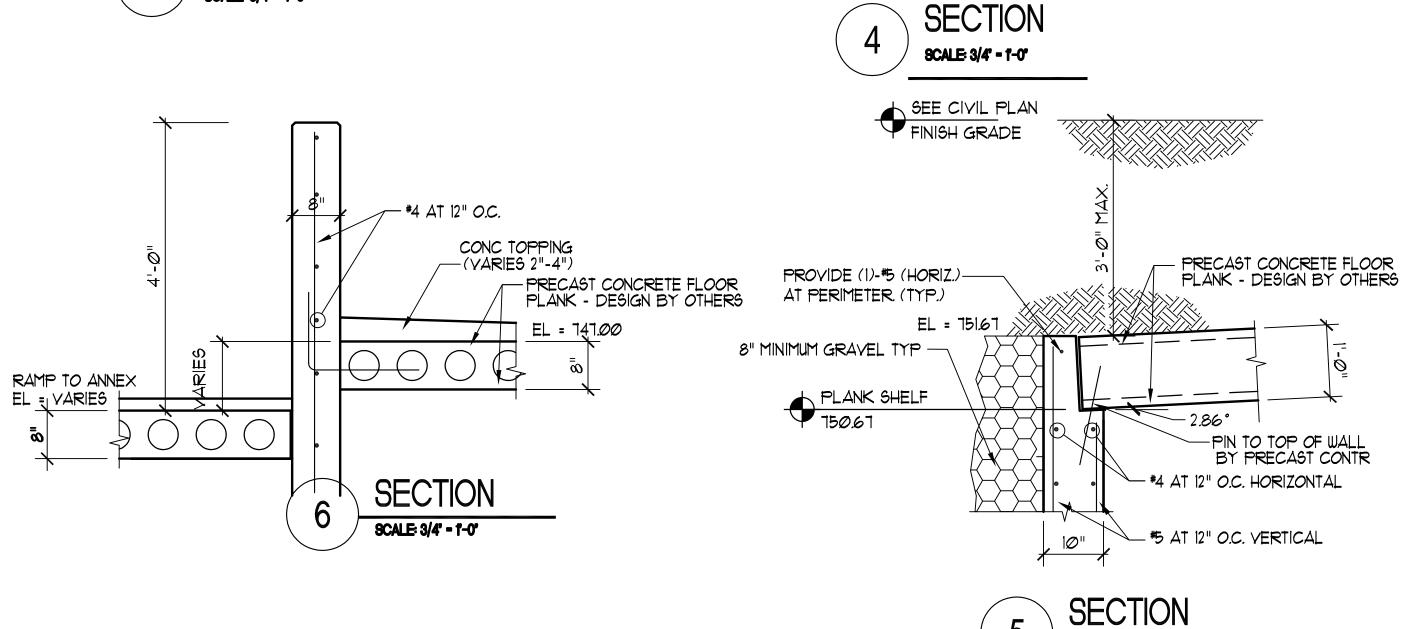
MASONRY LINTEL SCHEDULE



RAFTER/TRUSS

BUILDING

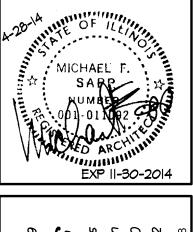


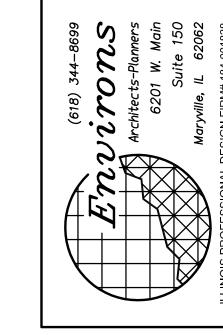




TEL - 847-754-1064 ARTMENT AP. ARE SQU ARDIN.

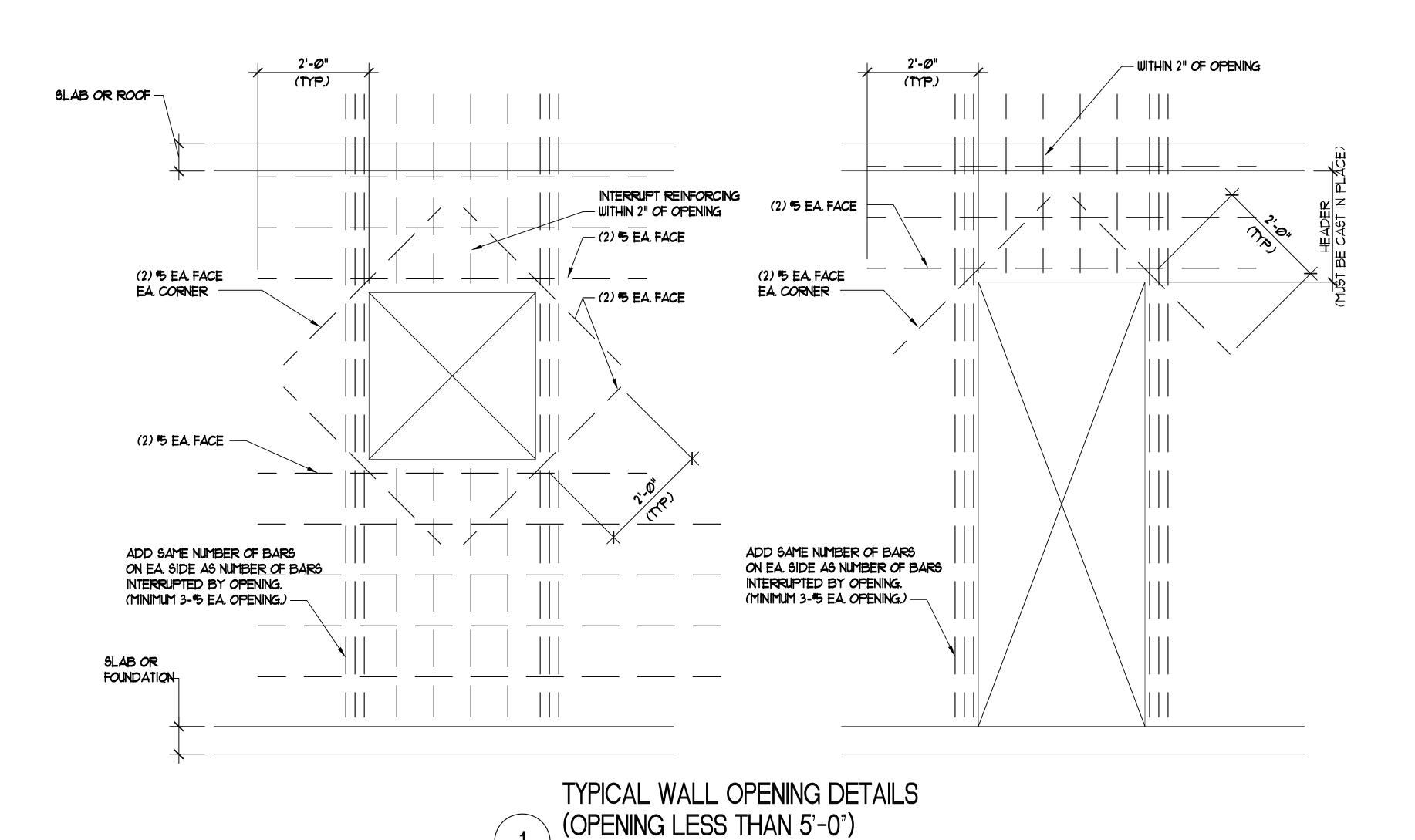
SHEET **S10**

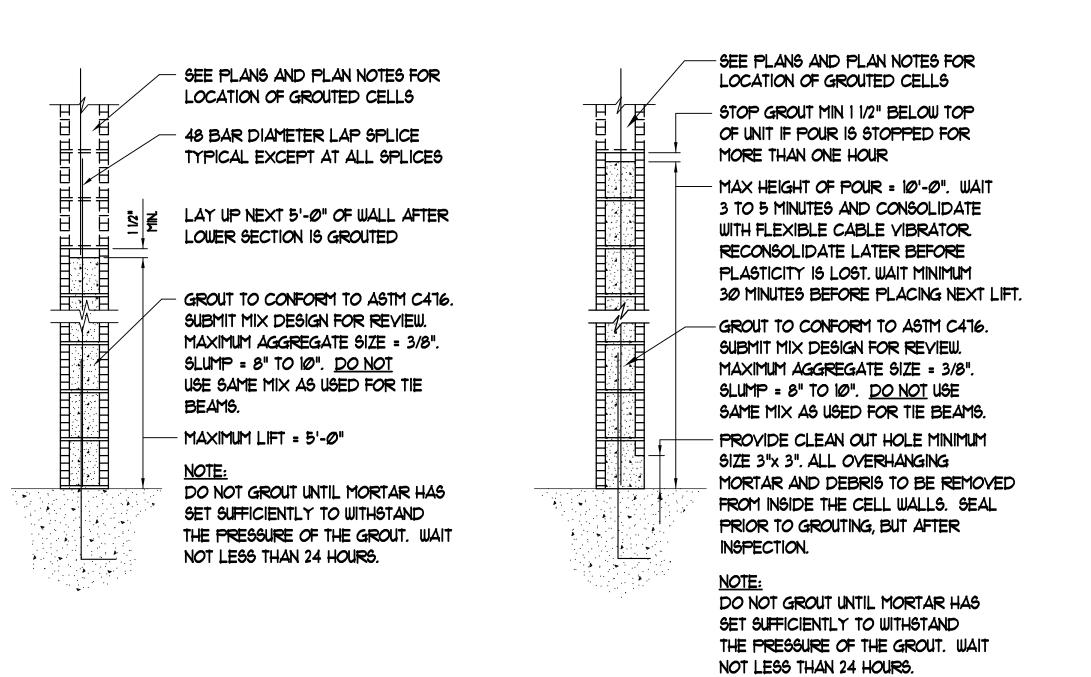




JOB NO. 13022

DATE: DECEMBER II, 2013 **REVISED:** \ FEBRUARY 20, 2014 PRECAST OPTION APRIL 28, 2014





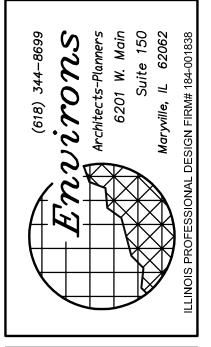




SCALE: NT.S.







OB NO.

DECEMBER II, 2013

REVISED:

FEBRUARY 20, 2014

PRECAST OPTION
APRIL 28, 2014



