

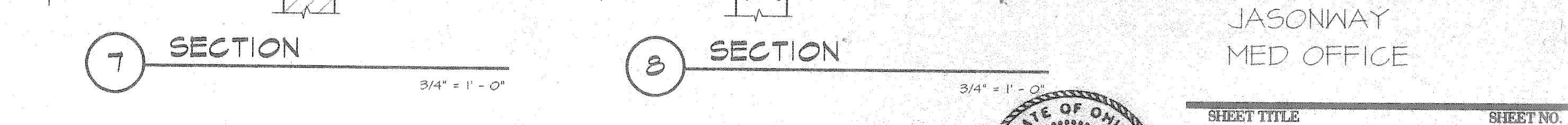
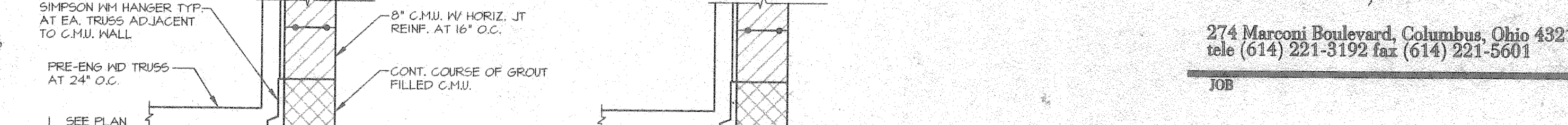
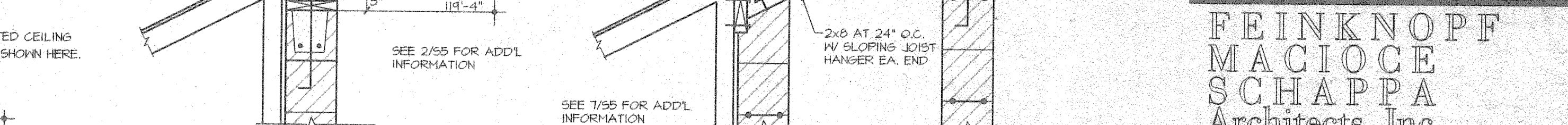
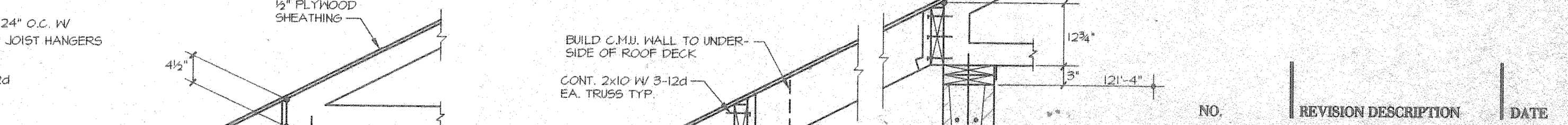
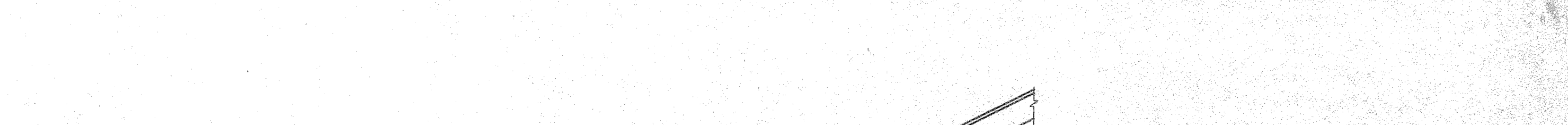
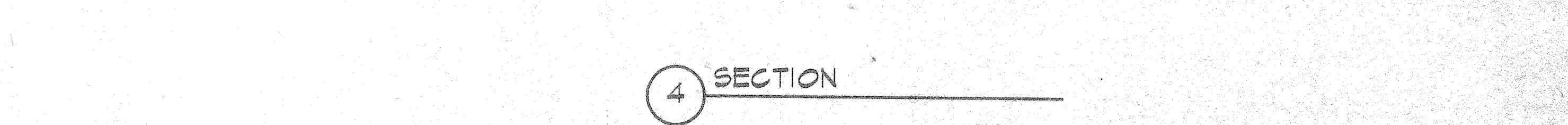
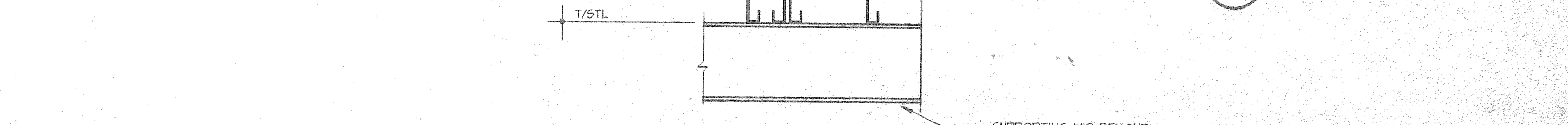
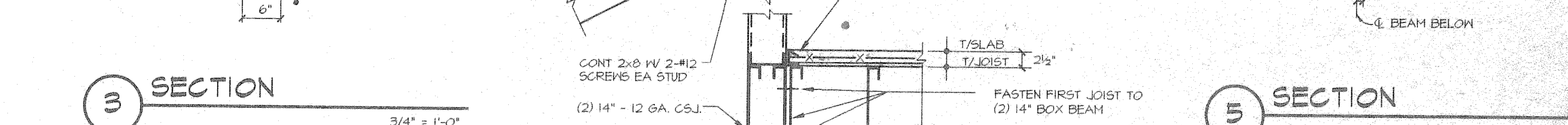
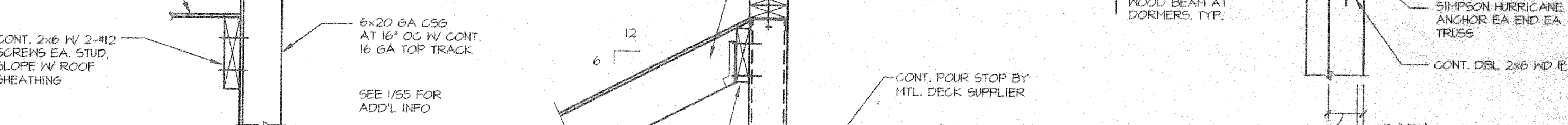
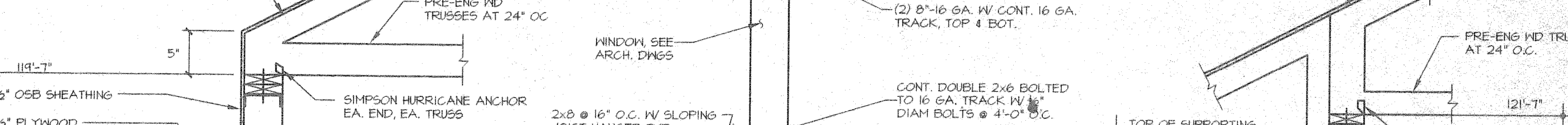
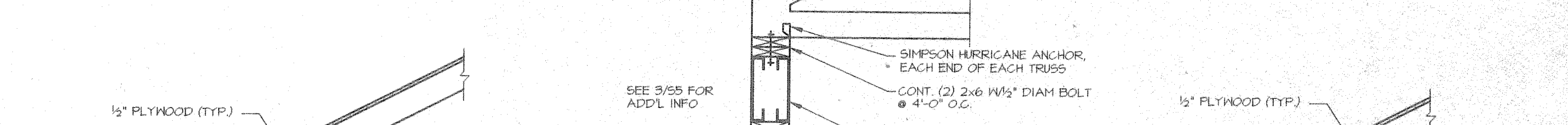
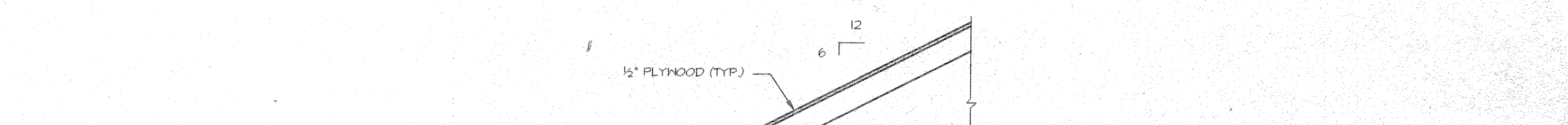
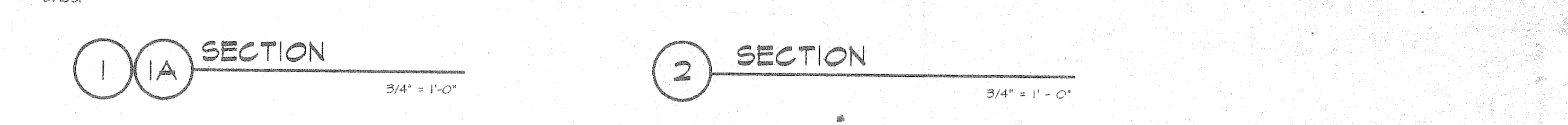
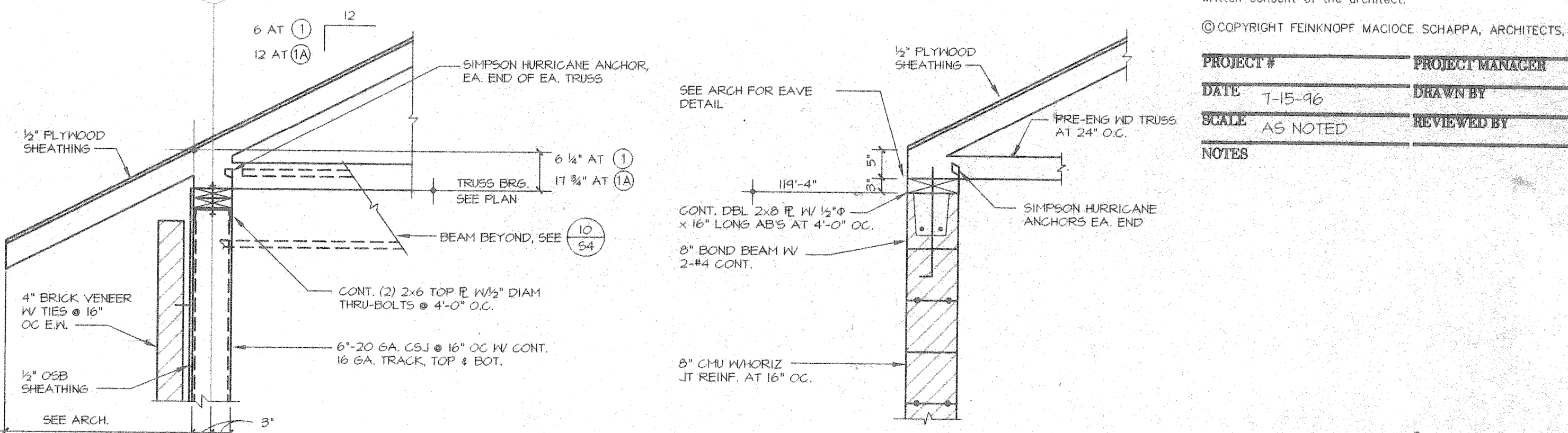
STRUCTURAL NOTES

- A. GENERAL**
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS LIGHTLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY BRACING, SAYS OR TIEDOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.
 - IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
 - EQUIPMENT FRAMING, LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS TO BE BORNE BY THE APPROPRIATE CONTRACTOR.
 - SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
 - GOVERNING CODE: OHIO BASIC BUILDING CODE.
 - DESIGN CRITERIA:
 - FLOOR LIVE LOADS:
 - OFFICES: 50 PSF
 - CORRIDORS: 80 PSF
 - REST ROOMS: 50 PSF
 - STAIRWAYS: 100 PSF
 - MECHANICAL ROOM: 150 PSF
 - A DEAD LOAD ALLOWANCE OF 20 PSF FOR PARTITIONS HAS BEEN ADDED FOR FLOOR AREAS WITH A DESIGN LIVE LOAD LESS THAN 80 PSF.
 - ROOF LOADS:
 - DESIGN ROOF LIVE LOAD: 25 PSF
 - ROOF SNOW LOADS:
 - GROUND SNOW LOAD: 25 PSF
 - FLAT-ROOF SNOW LOAD: 50 PSF
 - SNOW EXPOSURE FACTOR: 0.7
 - SNOW IMPORTANCE FACTOR: 1.0
 - WIND LOADINGS:
 - BASIC WIND SPEED: 80 MPH
 - WIND IMPORTANCE FACTOR: 1.0
 - WIND EXPOSURE CATEGORY:
 - MAIN WIND FORCE RESISTING SYSTEM: B
 - COMPONENTS AND CLADDING: C
 - WIND DESIGN PRESSURES:
 - MAIN WIND FORCE RESISTING SYSTEM: 20 PSF
 - COMPONENTS AND CLADDING: 22 PSF
 - ROOFS: 17 PSF
 - EARTHQUAKE DESIGN DATA: (NOT APPLICABLE, WIND LOADING GOVERNS)

- D. MASONRY**
- ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING REFERENCES AND STANDARDS:
 - AMERICAN CONCRETE INSTITUTE COMMITTEE 530.
 - NATIONAL CONCRETE MASONRY ASSOCIATION.
 - MATERIALS:
 - CONCRETE BLOCK: ASTM C40.
 - MORTAR: TYPE S, MINIMUM COMPRESSIVE STRENGTH 1800 PSI.
 - BEAM AND CORE FILL: ASTM C416, COARSE TYPE, MINIMUM COMPRESSIVE STRENGTH 5000 PSI.
 - JOINT REINFORCING: MILL GALVANIZED FINISH, #6 GAGE MINIMUM SIDE WIRES CROSS WIRES.
 - BAR REINFORCING: ASTM A615, GRADE 60.
 - REINFORCED MASONRY: WHERE VERTICAL BARS ARE TO BE GROUTED INTO CORES, THE FOLLOWING REQUIREMENTS APPLY:
 - PROVIDE DONNELLS FROM FOOTINGS, SAME SIZE AND SPACING AS WALL BARS. LAP 12 INCHES MINIMUM WITH WALL BARS. EMBED INTO FOOTINGS 8 INCHES PLUS STANDARD 90 DEGREE HOOK.
 - PROVIDE A CONTINUOUS VERTICAL CAVITY, AT LEAST 2" X 3" IN SIZE FREE OF MORTAR DROPPINGS.
 - PROVIDE AN OPENING FOR CLEANOUT AND INSPECTION AT EACH VERTICAL BAR, AT BOTTOM OF EACH GROUT LIFT.
 - PROVIDE REBAR ALIGNMENT DEVICES AT A MAXIMUM SPACING OF 1/2 BAR DIAMETERS.
 - AT SPLICES IN VERTICAL BARS, PROVIDE MECHANICAL COUPLERS OR 48 BAR DIAMETER LAP.
 - MAXIMUM HEIGHT OF GROUT LIFT = 4'-0".
 - MISCELLANEOUS:
 - VERTICAL COLLAR JOINTS TO BE FILLED SOLID WITH MORTAR.
 - PROVIDE 100% SOLID BEARINGS, MINIMUM THREE COURSES UNDER BEAMS, AND COLLARS.
 - FILL CORE SOLID AROUND ANCHOR BOLTS.
 - HOLLOW MASONRY UNITS TO BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALL ALSO BE BEDDED IN ALL COURSES OF PIERS. IN THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.
 - PROVIDE JOINT REINFORCING AT 16 INCHES, EXCEPT AS NOTED.
 - LAP JOINT REINFORCING AT 16 INCHES.

- H. LIGHT-GAGE METAL FRAMING**
- MATERIALS AND FINISHES:
 - HEADERS AND JOISTS: ASTM A446, GRADE C OR D, MINIMUM YIELD STRESS 50 KSI.
 - ALL OTHER MATERIALS: ASTM A446, GRADE A, MINIMUM YIELD STRESS 33 KSI.
 - GALVANIZED FINISH PER ASTM A525, 660.
 - SPECIFICATIONS: ALL LIGHT-GAGE METAL FRAMING SHALL BE IN ACCORDANCE WITH AISI SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, 1986 EDITION.
 - STUDS: ALL STUDS USED FOR EXTERIOR LOAD BEARING WALLS AT THE FIRST FLOOR AND INTERIOR LOAD BEARING WALLS AT THE SECOND FLOOR SHALL BE #1 DEEP STEEL "C" STUDS WITH THE FOLLOWING MINIMUM PROPERTIES:

GAGE AREA (in ²)	lx (in.4)	Sx (in.3)	Iy (in.4)	Sy (in.3)
20	0.346	1.808	0.536	0.118
24	0.418	2.188	0.648	0.141
 - STUDS SHALL BE INSTALLED SO ENDS HAVE FULL BEARINGS AGAINST INSIDE TRACK KEYS. SECURELY ATTACH ENDS OF STUDS TO BOTH FLANGES OF UPPER AND LOWER TRACKS. DO NOT SPLICE STUDS.
 - INSTALL LATERAL BRACING TO PREVENT STUD ROTATION. USE THE MANUFACTURER'S RECOMMENDATIONS FOR BRACING, EXCEPT THAT THE MAXIMUM SPACING IS TO BE 3'-4" FOR BEARING WALLS AND 5'-0" FOR ALL OTHER WALLS.
 - PROVIDE HEADERS AND SUPPORTING STUDS AS REQUIRED AT ALL OPENINGS IN WALLS. JAMB SECTIONS SHALL CONSIST OF HEAVIER GAGE STUDS, MULTIPLE STUDS, OR BOTH AS REQUIRED TO CARRY THE HEADER END REACTION AND/OR THE WIND LOADS FOR THE ADJACENT OPENING.
 - HEADERS:
 - PROVIDE WEB STIFFENERS AT ENDS OF EACH MEMBER.
 - PROVIDE CONTINUOUS TRACKS AT TOP AND BOTTOM OF ALL HEADERS.
 - CONNECTIONS:
 - FASTENING OF COMPONENTS SHALL BE DESIGNED BY THE FABRICATOR. FASTENINGS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. SCREWS AND WELDS SHALL BE SUFFICIENT IN NUMBER AND SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. ALL WELDS SHALL BE TOUCHED-UP WITH A ZINC-RICH PAINT.
 - SPLICES IN FRAMING MEMBERS OTHER THAN END TRACKS SHALL NOT BE PERMITTED.
 - SIZE AND GAGE OF END TRACKS SHALL MATCH SIZE AND GAGE OF FRAMING MEMBERS, UNLESS NOTED OTHERWISE.



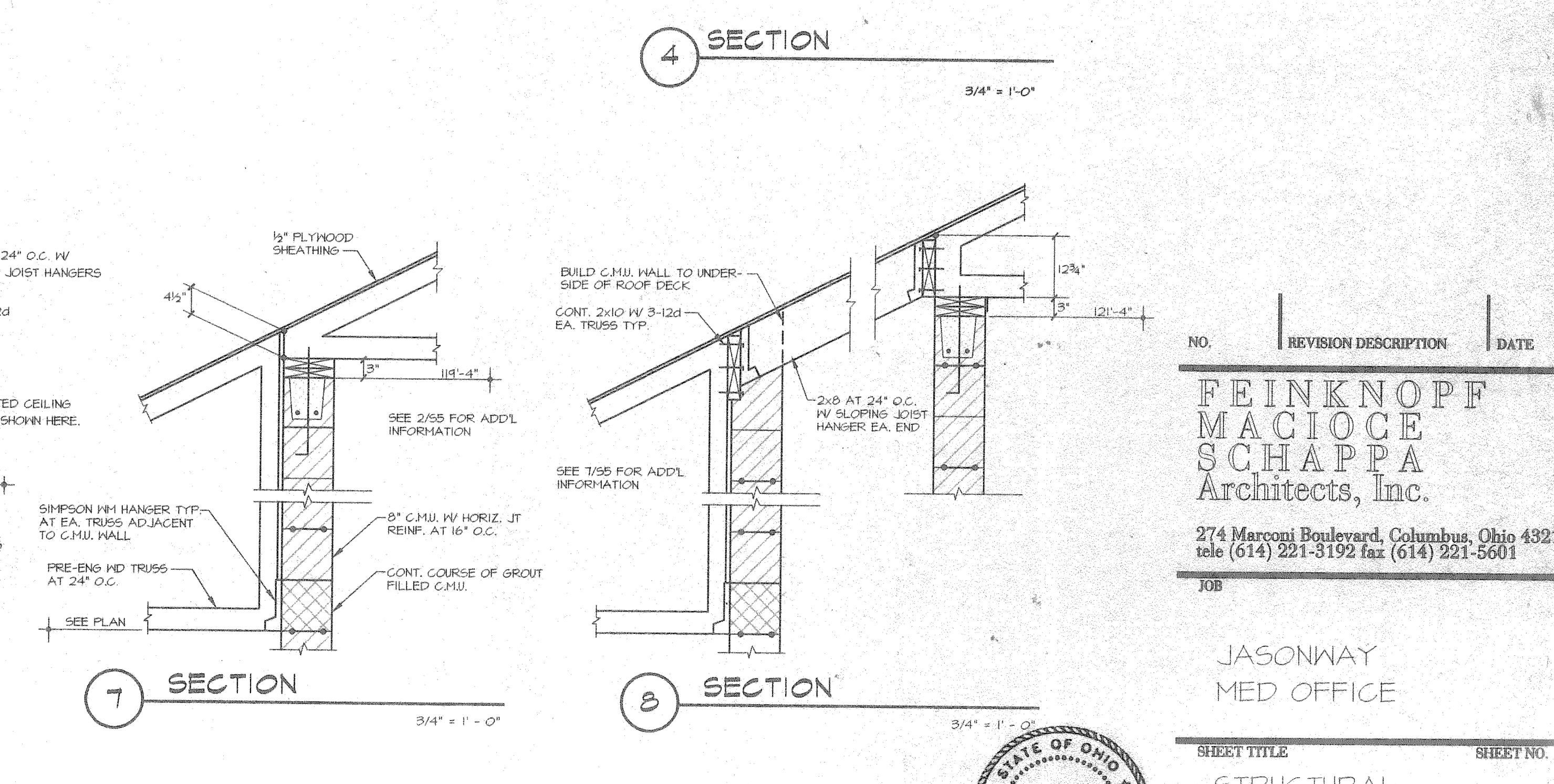
- C. REINFORCED CONCRETE**
- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318-84, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
 - SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI 301-84, 'SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.'
 - ALL REINFORCING DETAILS SHALL CONFORM TO ACI 315-86, 'MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES' UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.
 - MATERIALS:
 - STRUCTURAL CONCRETE:

CLASS	LOCATION	f _c
I	FOOTINGS AND PIERS	3000
II	INTERIOR SLABS ON GRADE AND ALL INTERIOR CONCRETE NOT OTHERWISE IDENTIFIED	3500
III	EXTERIOR SLABS ON GRADE AND ALL EXTERIOR CONCRETE NOT OTHERWISE IDENTIFIED	4000
IV	BACKFILL BELOW FOOTINGS	1500
V	FILL OVER METAL CENTERINGS AND FILL IN STAIR PANS AND TREADS (no aggregate)	3500
 - ALL DEFORMED REINFORCING BARS: ASTM A615, GRADE 60.
 - ALL WELDED WIRE FABRIC: ASTM A185, DELIVERED IN FLAT SHEETS.
 - FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES.
 - FOOTINGS:
 - DONNELLS IN FOOTINGS TO MATCH VERTICAL PIER REINFORCING.
 - PROVIDE CORNER BARS AT ALL FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING. MINIMUM LENGTH OF EACH LEG = 48 BAR DIAMETERS.
 - BACKFILL AGAINST BOTH SIDES OF WALLS EQUALLY UNTIL THE LOWER ELEVATION.
 - PROTECT REINFORCING CONCRETE (CLASS IV) UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES.
 - CONSTRUCTION JOINTS:
 - CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER. ALL CONSTRUCTION JOINTS ARE TO BE KEPT.
 - CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE MINIMUM CONCRETE COVER AS FOLLOWS:
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES
 - CONCRETE EXPOSED TO EARTH OR WEATHER: #5 BARS AND SMALLER: 1-1/2 INCHES; OTHERS: 2 INCHES
 - CONCRETE NOT EXPOSED TO EARTH OR WEATHER: 1-1/2 INCHES

- E. STRUCTURAL STEEL**
- MATERIALS:
 - STRUCTURAL STEEL: ASTM A36, F_y = 36 KSI; HIGH STRENGTH BOLTS: ASTM A325 OR A440, ANCHOR BOLTS: ASTM A307 OR A36, ELECTRODES: SERIES E70, STRUCTURAL WELDS: ASTM A53 OR A501, F_y = 35 KSI MIN; SQUARE AND RECTANGULAR TUBING: ASTM A500, F_y = 46 KSI; EXPANSION BOLTS: MILITARY "NUT-BOLTS" OR APPROVED EQUAL.
 - SPECIFICATION: WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D11. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY:
 - AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (JUNE 1, 1984).
 - AISC CODE OF STANDARD PRACTICE (SEPTEMBER 1, 1986).
 - STRUCTURAL WELDING CODE, AWS D11.88 OF THE AMERICAN WELDING SOCIETY.
 - SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A440 BOLTS (NOVEMBER 13, 1985).
 - CONNECTIONS:
 - FIELD CONNECTIONS TO BE BOLTED. SHOP CONNECTIONS TO BE WELDED OR BOLTED. CONNECTIONS TO BE DESIGNED BY THE FABRICATOR TO DEVELOP THE FULL UNIFORM LOAD STRENGTH OF MEMBER. FOLLOW INSTRUCTIONS ON DRAWINGS FOR GENERAL ARRANGEMENT OR PARTICULAR DETAILS.
 - PAINT:
 - DO NOT PAINT STEEL OR ANCHOR BOLTS WHICH WILL BE ENCASED IN CONCRETE OR ANY STEEL WHICH WILL BE LOCATED INSIDE THE FINISHED PRODUCT CONCEALED FROM VIEW. LINTELS AND COLLARS IN EXTERIOR WALLS ARE TO RECEIVE TWO COATS OF SHOP PAINT.
 - MISCELLANEOUS:
 - PROVIDE HOLES FOR OTHERS. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.
 - STEEL SUPPORTING OR CONNECTING TO ROOF OPENINGS, HVAC AND OTHER EQUIPMENT AS SHOWN ON DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL RECOGNIZE EXACT SIZE AND LOCATION BEFORE PROCEEDING WITH HIS WORK.
 - PROVIDE NON-SHRINKING, NON-METALLIC GROUT UNDER ALL BEARING PLATES AND BASE PLATES.
 - STEEL BELOW GRADE TO BE PROTECTED BY A MINIMUM OF 3 INCHES OF CONCRETE OR 4 INCHES OF MASONRY.
 - PROVIDE 1/4 INCH THICK SETTINGS PLATES FOR ALL BEAMS BEARING ON MASONRY OR CONCRETE WHICH DO NOT REQUIRE A BEARING PLATE.
 - PROVIDE SHOP WELDED ANCHORS FOR ATTACHMENTS OF MASONRY. SPACING TO BE 24 INCHES ON BEAMS, 16 INCHES ON COLLARS.
 - PROVIDE HEAVY NUT AND WASHER AT ALL ANCHOR BOLTS (BOTH ENDS WHERE SHOWN).
 - FINISH ENDS OF ALL COLLARS, STIFFENERS AND ALL OTHER MEMBERS IN DIRECT BEARING: MINIMUM BEAM BEARING ON MASONRY = 6 INCHES UNLESS NOTED OTHERWISE.
 - EMBEDMENT LENGTH OF EXPANSION BOLTS INTO SOLID MASONRY OR CONCRETE SHALL BE AS FOLLOWS:

1/2 INCH DIAMETER BOLTS --- 3-1/2 INCHES EMBEDMENT
3/4 INCH DIAMETER BOLTS --- 5 INCHES EMBEDMENT

- F. METAL DECKING**
- REFERENCE STANDARDS:
 - SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, 1980 EDITION, BY THE AMERICAN IRON AND STEEL INSTITUTE.
 - DESIGN MANUAL FOR FLOOR DECKS AND ROOF DECKS, BY THE STEEL DECK INSTITUTE.
 - MATERIALS: STEEL SHEET CONFORMING TO ASTM A446-85 OR A611-85.
 - GALVANIZED FINISHES: CONFORM TO ASTM A525-86, 660.
 - ACCESSORIES: SAME MATERIAL AND FINISH AS DECK UNITS.
 - ATTACHMENT TO SUPPORTING MEMBERS: ATTACH TO SUPPORTS BY WELDING FROM TOP SIDE ONLY. WELDS WHICH BURN HOLES IN DECKING OR SUPPORTING MEMBER WILL BE REJECTED. MINIMUM SIZE AND SPACING OF WELDS TO BE AS RECOMMENDED BY THE MANUFACTURER.



This drawing and the material appearing herein, constitute original and unpublished work of Feinknopf Macioce Schappa Architects, Inc. and may not be used on any project for purpose, nor may the same be copied (except by governmental agencies required by law), or disclosed without written consent of the architect.

© COPYRIGHT FEINKNOPF MACIOCE SCHAPPA, ARCHITECTS, INC.

PROJECT #	PROJECT MANAGER
DATE: 7-15-96	DRAWN BY
SCALE: AS NOTED	REVIEWED BY

NOTES

NO.	REVISION DESCRIPTION	DATE
FEINKNOPF MACIOCE SCHAPPA Architects, Inc.		
274 Marconi Boulevard, Columbus, Ohio 43211 tele (614) 221-3192 fax (614) 221-5601		
JOB		
JASONWAY MED OFFICE		
SHEET TITLE	SHEET NO.	
STRUCTURAL NOTES & SECTIONS	55	

