

CJUSD - BUILDING 900 SEISMIC RETROFIT

900 East Washington Street
Colton, CA 92334

REVIEWED FOR CODE COMPLIANCE

Reviewed by: Mered Gentry
Date: 01/15/2025

Approval of these plans & specifications shall not be construed to be a permit for, or an approval of any violation of any Federal, State, County or City laws or ordinances. One set of approved plans must be kept on the job until completion.

WILLDAN ENGINEERING

SCOPE OF WORK

PROJECT DESCRIPTION:
VOLUNTARY SEISMIC RETROFIT TO BUILDING 900. SCOPE IS LIMITED TO STRUCTURAL STRENGTHENING AT THE ROOF LEVEL AS DEPICTED ON THE STRUCTURAL DRAWINGS. INCLUDING PATCHING OF FINISHES AS A RESULT OF ACCESSING THE STRUCTURAL COMPONENTS.

Revision	Date

☐ Approved
☐ Approved As Noted

Signature: _____ Date: _____

APPROVED
FEB 06 2025
BY _____
CITY OF COLTON
BUILDING DEPARTMENT

APPLICANT'S
APPROVED
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CJUSD - SUITE 100 REMODEL

900 East Washington Street
Colton, CA 92334

Developed for
Colton Joint Unified School District

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LPA

ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING

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5301 California Avenue, Suite 100
Irvine, California 92617

REGISTERED ARCHITECT
RICHARD MURDO
No. C-18638
REN 12/31/2025
STATE OF CALIFORNIA

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PROJECT INFORMATION	
PROJECT ADDRESS:	900 EAST WASHINGTON COLTON, CA 92324
CONSTRUCTION TYPE:	III- NON RATED
OCCUPANCY GROUP:	B - OFFICE, A-3
NUMBER OF STORIES:	3
FIRE PROTECTION:	SPRINKLERED
BUILDING AREA:	72,000 S.F. (3 STORY BUILDING)
BUILDING HEIGHT:	43'-0" A.F.F. TO PARAPET (48'-2" TOP OF ROOF SCREEN)
AREA OF MODIFICATION	ROOF (24,000 sf)

PROJECT DIRECTORY	
OWNER/ CLIENT INFORMATION	
COLTON JOINT UNIFIED SCHOOL DISTRICT	
325 HERMOSA AVENUE, BUILDING 5	
COLTON, CA 92324	
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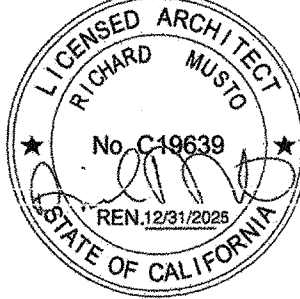
STRUCTURAL ENGINEER	
MIYAMOTO INTERNATIONAL, INC.	
17300 RED HILL AVE., SUITE 250	
IRVINE, CA 92614	
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CONTACT: TRACI PETCOFF WONG	E-MAIL: twong@miyamotointernational.com
DAVID KILPATRICK	dkilpatrick@miyamotointernational.com

SHEET INDEX		
ISSUE DATE	SHEET NUMBER	SHEET NAME
11/15/2021	G-0.01	TITLE SHEET
11/15/2021	G-0.02	GENERAL INFORMATION
11/15/2021	G-0.03	SITE PLAN (FOR REFERENCE ONLY)
06/28/2024	S-0.01	GENERAL NOTES
06/28/2024	S2.01	EXISTING FOUNDATION PLAN
06/28/2024	S2.11	2ND FLOOR FRAMING PLAN EXISTING (FOR REFERENCE ONLY)
06/28/2024	S-2.12	3RD FLOOR FRAMING PLAN EXISTING (FOR REFERENCE ONLY)
06/28/2024	S2.13	ROOF FRAMING PLAN
06/28/2024	S5.01	SEISMIC RETROFIT DETAILS

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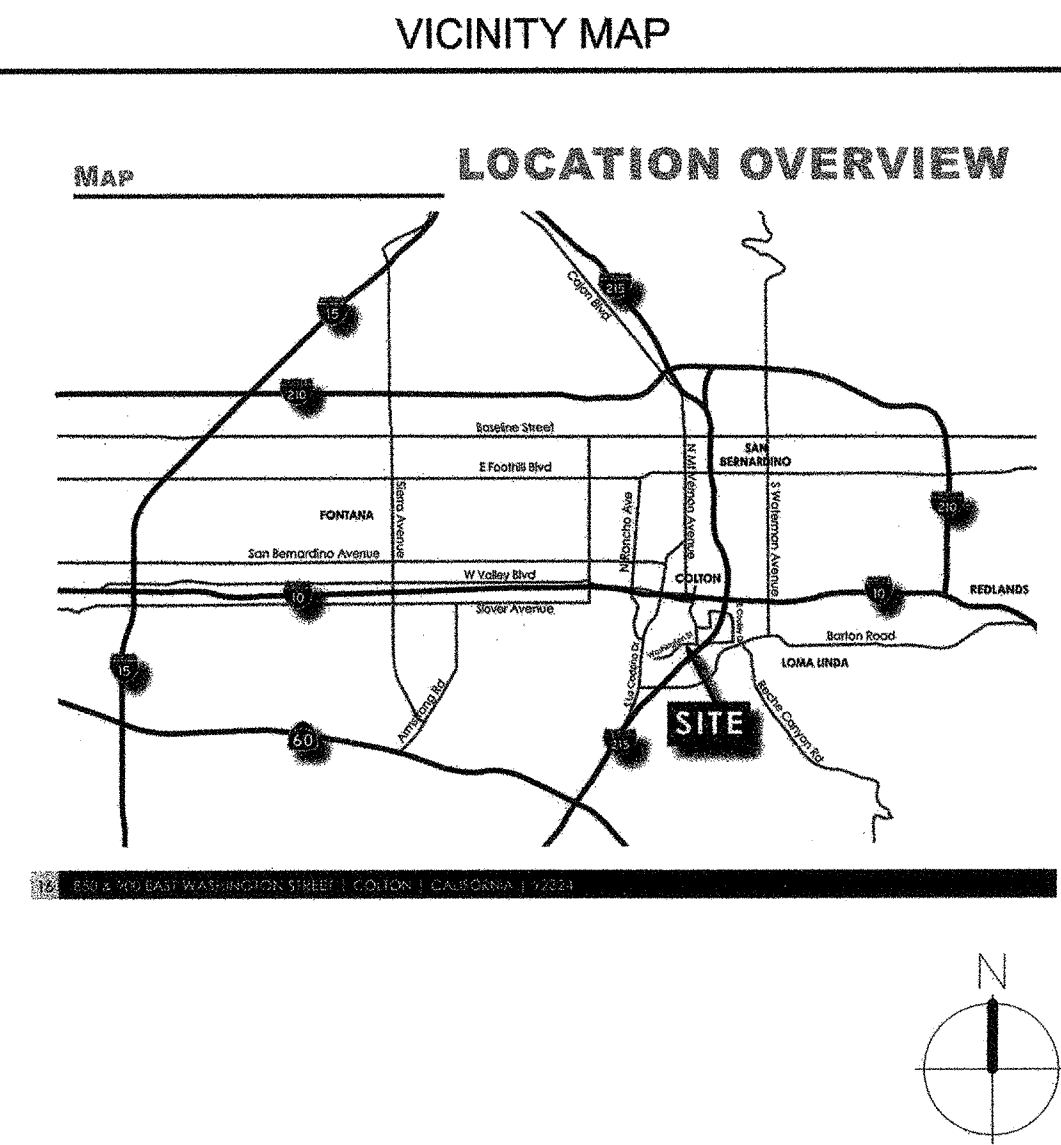
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WILLDAN ENGINEERING



APPROVED
FEB 06 2025

BY: CITY OF COLTON
BUILDING DEPARTMENT

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Date	
Revision	

Date	07/28/2021
Submittal	PRICING PLAN

Job Number	1912130
Date Published	11.04.2021
Checked By	Checker
Scale	As Indicated

GENERAL
INFORMATION

N.I.C.

• • • • ACCESSIBLE PATH--OF--TRAVEL U.O.N. RUNNING SLOPE NOT TO EXCEED 1:20 AND
CROSS SLOPE NOT TO EXCEED 1:48.

— — — — PROPERTY LINE

PROPERTY LINE

850
E. WASHINGTON
STREET
(N.I.C.)

900
E. WASHINGTON
STREET

RV CENTER DRIVE

850 & 900 E. WASHINGTON ST.

REQUIRED PARKING

* TOTAL REQUIRED ACCESSIBLE PARKING STALLS FOR EXISTING PARKING = 8 SPACES (INCL. 2 VAN)

PROVIDED PARKING

PROPOSED PARKING

850 & 900
E. WASHINGTON ST.

REG. ACCESSIBLE
STALLS STALLS

373 + 11 =
(INCL. 2 VAN)

TOTAL

384 TOTAL

(40) 805 E. WASHINGTON
(344) 900 E. WASHINGTON

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CITY OF COLTON
BUILDING DEPARTMENT

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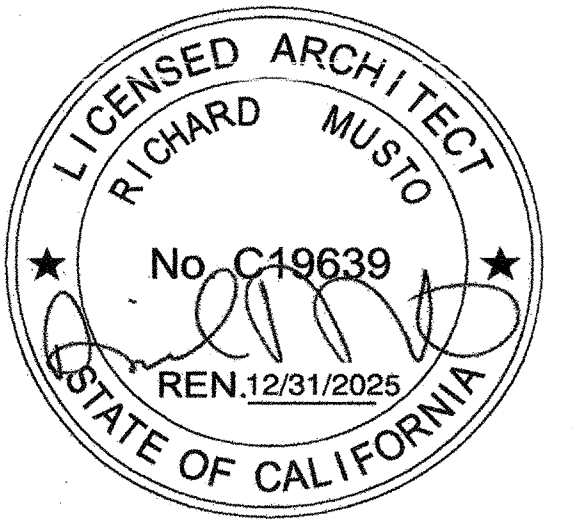
PROJECT NAME:	COLTON JOINT USD
PROJECT SQ.FT.:	± 0,000 S.F.
PROJECT NUMBER:	121052

SCALE:	NTS
DESCRIPTION:	

SITE PLAN

NORTH

GO.03



Property Owned & Managed by
Colton JUSD

SITE PLAN
SCALE: N.T.S.

EXISTING SITE PLAN, FOR REFERENCE ONLY

12/17/2024, 12:50:47 PM Autodesk Docs://M2404043.00 900 Washington Seismic Retrofit/M2404043.00 900 East Washington Street Colton, CA 92334

ABBREVIATIONS AND LEGEND

ABV	ANCHOR BOLT	IF	INSIDE FACE
ABV	ABOVE	IN	INCH
ADOL	ADDITIONAL	INT	INTERIOR
ADJ	ADJUNCT	JOR	INSPECTOR OF RECORD
AF	ABOVE FINISH FLOOR	JST	JOIST
ALT	ALTERNATE	JT	JT
ARCH	ARCHITECTURAL	KLF	KIPS PER LINEAR FOOT
BUDS	BUILDING	KSF	KIPS PER SQUARE FOOT
BLK	BLACK	KSI	KIPS PER SQUARE INCH
BLKG	BLOCKING	L	ANGLE
BLW	BELOW	LD	DEVELOPMENT LENGTH
BM	BEAM	LDH	HOOK DEVELOPMENT LENGTH
BN	BOTTOM NAILING	LFRS	LATERAL FORCE RESISTING
BOT	BOTTOM OF	MECH	MECHANICAL
BOTT	BOTTOM	MFR	MANUFACTURER
BRB	BUCKLING-RESTRAINED BRACE	MIN	MINIMUM
BRG	BEARING	OC	ON CENTER
BS	BOTH SIDES	OS	OUTSIDE
BTWN	BETWEEN	OSD	OUTSIDE DIAMETER
C	CAMBER	O.F.	OUTSIDE FACE
CG	CENTER OF GRAVITY	OPNG	OPENING
CIP	CAST IN PLACE	OPF	OPENING POWER DRIVEN
CJ	CONTROLLED JOINT PENETRATION	PJ	PANEL JOINT
CJP	COMPLETE JOINT PENETRATION	PJ	PANEL JOINT
CL	CENTERLINE	PJP	PARTIAL JOINT PENETRATION
CLG	CILING	PL	PLATE
CLR	CLEAR	PLG(S)	PLATE(S)
CMU	CONCRETE MASONRY UNIT	PLF	POUNDS PER LINEAR FOOT
COL	COLUMN	PLYWD	PLYWOOD
CONC	CONCRETE	PSF	POUNDS PER SQUARE FOOT
CONN	CONNECTION	PSI	POUNDS PER SQUARE INCH
CONT	CONTINUOUS	PT	PRESSURE TREATED OR
CSK	COUNTERSINK, COUNTERSUNK	QTY	QUANTITY
CTR(D)	CENTER(D)	RAD	RADIUS
DB	BAR DIAMETER OR BOLT DIAMETER	REF	REFERENCE
DE	DOUBLE	REIN	REINFORCING
DEMO	DEMOLITION	REQD	REQUIRED
DET	DETAIL	S	"SIMPSON" STRONG TIE CO. OR
DIA	DIAMETER	SB	SAW CUT OR SLIP-CRITICAL
DIAG	DIAGONAL	SCHED	SCHEDULE
DIM	DIMENSION	SEOR	STRUCTURAL ENGINEER OF
DIRECTION	DIRECTION	SHG	SHEATHING
DO	DITTO	SIM	SIMILAR
DWG	DRAWING	SMS	STEEL METAL SCREW
E	EXISTING	SN	SILL NAIL
EA	EACH	SO	SLAB ON GRADE
EACH	EACH FACE	SQ	SQUARE
EXP	EXPANSION JOINT	STD	STANDARD
EMBED	EMBEDMENT	STGRD	STAGGERED
ELEC	ELECTRICAL	STIFF	STIFFENER
ELEV	ELEVATION OR ELEVATOR	STL	STEEL
EN	EDGE NAILING	STRUC	STRUCTURAL
E.O.	EDGE OF	T&B	TOP & BOTTOM
ENG	ENGINEER OF RECORD	T&G	TONGUE AND GROOVE
EQ	EQUAL	THK	THICK
EQUIP	EQUIPMENT	THRD	THREADED
EXP	EACH SIDE OR EDGE SCREW	T.O.	TOP OF
EXP	EXPANSION	TRANS	TRANSVERSE </td
EXT	EXTERIOR	TP	TYPICAL
FIN	FINISH	UNO	UNLESS NOTED OTHERWISE
FLG	FLOOR	VERT	VERTICAL
FLR	FLOOR	VF	VERIFY IN FIELD
FN	FIELD NAILING	W	WITH
FND	FOUNDATION	WO	WITHOUT
F.O.	FACE OF	WF	WIDE FLANGE
FS	FAR SIDE OR FIELD SCREW	WLD	WELDED
FRMG	FRAMING	WO	WHERE OCCURS
FRR	FIBER REINFORCED POLYMER	WP	WORK POINT
FT	FOOT OR FEET	WT	WEIGHT
FTG	FOOTING	WWF	WELDED WIRE FABRIC
FTT	FOOTING		
GR	GIRDER		
GA	GAGE		
GALV	GALVANIZED		
GB	GRADE BEAM		
GC	GENERAL CONTRACTOR		
THRD	THREADED		
HAB	HEADED ANCHOR BOLT		
HOLD	HOLDOWN		
HDR	HORIZONTAL		
HWR	HANGER		
HK	HOOK		
HORIZ	HORIZONTAL		
HIP	HIP		
HS	HIGH-STRENGTH		
HSS	HIGH-STRENGTH BOLT		
HSS	HOLLOW STRUCTURAL SECTION		
HT	HEIGHT		
ID	INSIDE DIAMETER		

REFERENCE ELEVATION OR WORK POINT
INDICATES THAT A DETAIL OR PORTION OF FRAMING IS A PART OF THE LATERAL FORCE RESISTING SYSTEM AND IS SUBJECT TO ADDITIONAL REQUIREMENTS OUTLINED IN THE GENERAL NOTES AND SPECIFICATIONS

TYPICAL HATCH PATTERNS USED (UNLESS NOTED OTHERWISE):
CONCRETE STEEL SOIL/EARTH
MASONRY GROUT/SAND PLYWOOD/SHEATHING

EXISTING ELEMENTS ARE SHOWN AS HALFTONE, NEW ELEMENTS ARE SHOWN AS FULL TONE
UNO, EXAMPLE:

INDICATES A NEW ELEMENT
INDICATES AN EXISTING ELEMENT

SAWN LUMBER:
CONTINUOUS BLOCKING END OF MEMBER

REFERENCE OF SECTIONS, DETAILS & SYMBOLS

DETAIL REFERENCE SHOWN THUS:
BUILDING SECTION INDICATION SHOWN THUS:
ELEVATION INDICATION SHOWN THUS:

DETAIL NOTE IS SHOWN ON SHEET SS.01, DETAIL 2
CUT IS SHOWN ON SHEET SS.01, DETAIL 2
ELEVATION IS SHOWN ON SHEET SS.01, DETAIL 2

(ADDITIONAL INDICATORS MAY BE USED TO SHOW LOCATION OF DETAIL CUTS)
(SHEET NUMBER MAY BE REPLACED BY A HYPERION (H) WHEN THE REFERENCED DETAIL APPEARS ON THE SAME SHEET AS THE CALL-OUT)

DETAIL TITLE SHOWN THUS:

DETAIL TITLE
SCALE
INDICATES THE TITLE, SCALE, AND DETAIL NUMBER ON SHEET

STATEMENT OF SPECIAL INSPECTION

- THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVED FABRICATORS MUST SUBMIT A CERTIFICATE OF COMPLIANCE FOR OFFSITE FABRICATIONS SUCH AS STRUCTURAL STEEL, PRECAST CONCRETE, GLUED LAMINATED TIMBER, ETC.
- ALL INSPECTIONS SHALL BE PERFORMED BY INDEPENDENT SPECIAL INSPECTORS. JOB SITE VISITS BY THE STRUCTURAL ENGINEER OR BUILDING OFFICIAL DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS BY A SPECIAL INSPECTOR.
- ALL INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND SEOR. THE FINAL REPORTS BY THE SPECIAL INSPECTOR(S) MUST CERTIFY THAT THE STRUCTURAL SYSTEM COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT THESE INSPECTIONS ARE PERFORMED.
- WORK REQUIRING SPECIAL INSPECTION SHALL BE INSPECTED BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS PERFORMED AND AT THE COMPLETION OF WORK. CONTINUOUS (CONT.) INSPECTION CONSISTS OF FULL-TIME INSPECTION. PERIODIC INSPECTION CONSISTS OF PART-TIME OR INTERMITTENT INSPECTION.
- AT A MINIMUM, ALL SPECIAL INSPECTIONS REQUIRED BY THE BUILDING CODE SHALL BE PROVIDED. THE FOLLOWING SPECIAL INSPECTIONS ARE IN ADDITION TO INSPECTIONS BY THE BUILDING OFFICIAL. THIS LIST IS NOT INTENDED TO BE ALL INCLUSIVE.

SOILS SUPPORTING FOUNDATIONS
PERIODIC: VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.
PERIODIC: VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.
PERIODIC: PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.
CONT: VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILLS.
PERIODIC: PRIOR TO PLACEMENT OF CONTROLLED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.

STRUCTURAL CONCRETE
PERIODIC: INSPECTION OF REINFORCING STEEL AND PLACEMENT.
CONT: INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE.
PERIODIC: VERIFY USE OF REQUIRED DESIGN MIX.
CONT: SAMPLING FRESH CONCRETE AND PERFORMING SLUMP AND AIR CONTENT TESTS, AND DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS.
CONT: INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.
PERIODIC: INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUE.
PERIODIC: VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.
PERIODIC: INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.
PERIODIC: ERECTION OF PRECAST CONCRETE MEMBERS.
PERIODIC: POST-INSTALLED AND ADHESIVE ANCHORS.

STRUCTURAL STEEL
PERIODIC: HIGH-STRENGTH BOLTS, NUTS, AND WASHERS IDENTIFICATION MARKINGS TO CONFORM TO SPECIFIED ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.
PERIODIC: HIGH-STRENGTH BOLT BEARING-TYPE CONNECTIONS.
CONT: SLIP-CRITICAL CONNECTIONS USING TURN-OF-NUT METHOD WITH MATCH-MARKING, DIRECT TENSION INDICATOR METHOD, OR TURN-OF-NUT METHOD.
PERIODIC: SLIP-CRITICAL CONNECTIONS USING CALIBRATED WRENCH METHOD OR TURN-OF-NUT WITHOUT MATCH-MARKING.
PERIODIC: STRUCTURAL STEEL IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.
PERIODIC: STRUCTURAL STEEL MANUFACTURERS CERTIFIED MILL TEST REPORTS.
CONT: STEEL FRAME BEAMS AND STIFFENER DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS.
PERIODIC: STEEL FRAME MEMBER LOCATIONS.
CONT: APPLICATIONS OF JOINT DETAILS AT EACH CONNECTION.
REFER TO AISC 360 CHAPTER N FOR MORE INFORMATION ON REQUIRED INSPECTIONS RELATED TO STEEL CONSTRUCTION.

WELDING
CONT: COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.
CONT: FILLET WELDS - 1/8" MIN. AND MULTIPASS FILLET WELDS.
PERIODIC: FILLET WELDS < 1/8" MIN.
PERIODIC: METAL DECK WELDS.
PERIODIC: LIGHT GAUGE METAL WELDS.
PERIODIC: WELD FILLER MATERIAL IDENTIFICATION MARKINGS TO CONFORM TO AWS STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS, MANUFACTURER'S CERTIFICATION OF COMPLIANCE REQUIRED.
CONT: WELDING OF REINFORCING STEEL RESISTING SEISMIC FORCES, INDICATED ON PLANS AND DETAILS AS LFG ELEMENTS OR CONNECTIONS.
CONT: VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706.
CONT: WELDING OF STRUTS, HOOPS OR TIES.
CONT: REINFORCING STEEL WELDS IN CMU.
CONT: ALL OTHER REINFORCING STEEL WELDS, UNO.

ROUGH CARPENTRY / WOOD
PERIODIC: HIGH LOAD DIAGRAMS WITH MULTIPLE ROWS OF FASTENERS: VERIFY PANEL GRADE, THICKNESS, NOMINAL FRAMING SIZES AND FASTENERS.
PERIODIC: SHEAR WALL AND DIAPHRAGM NAILING, BOLTING, ANCHORING AND OTHER FASTENING WHERE FASTENER SPACING OF THE SHEATHING IS 4 INCHES ON CENTER OR LESS.
PERIODIC: METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING 60 FEET OR GREATER, VERIFY TEMPORARY INSTALLATION BRACING AND PERMANENT INDIVIDUAL TRUSS MEMBER BRACING PER REVIEWED TRUSS SUBMITTAL.

COLD-FORMED STEEL FRAMING
PERIODIC: SCREW ATTACHMENT, BOLTING, AND ANCHORING OF STRAPS, HOLD-DOWNS, BRACES, DRAG STRUTS, ROOF, WALLS AND FLOORS.

NON-STRUCTURAL COMPONENTS
PERIODIC: ERECTION AND FASTENING OF EXTERIOR CLADDING, INTERIOR AND EXTERIOR NON-BEARING WALLS, AND INTERIOR AND EXTERIOR VENEER GREATER THAN 9' HEIGHTS, EXTERIOR WALLS GREATER THAN 5 PSF, AND INTERIOR WALLS MORE THAN 15 PSF.
PERIODIC: ANCHORAGE OF ELECTRICAL EQUIPMENT.
PERIODIC: ANCHORAGE OF SUSPENDED CEILING SYSTEMS.
PERIODIC: ANCHORAGE OF HVAC DUCTWORK THAT WILL CONTAIN HAZARDOUS MATERIALS.
PERIODIC: ANCHORAGE OF PIPING SYSTEMS AND MECHANICAL UNITS THAT WILL CONTAIN FLAMMABLE, COMBUSTIBLE, OR HIGHLY TOXIC MATERIALS.
PERIODIC: ANCHORAGE OF ACCESS FLOORS AND ANCHORAGE OF STORAGE RACKS 8 FEET OR GREATER IN HEIGHT.
PERIODIC: FLEXIBLE CONNECTIONS OF UTILITIES CROSSING EXPANSION OR SEISMIC JOINTS.

STRUCTURAL TESTS AND SPECIAL INSPECTIONS

- THE OWNER SHALL EMPLOY ONE OR MORE DSA APPROVED SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF DSA, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- SEE DSA FORM DSA 103 FOR ALL REQUIRED STRUCTURAL TESTS AND SPECIAL INSPECTIONS.
- ALL INSPECTIONS SHALL BE PERFORMED BY INDEPENDENT SPECIAL INSPECTORS. JOB SITE VISITS BY THE STRUCTURAL ENGINEER OR DSA DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS BY A SPECIAL INSPECTOR.
- ALL INSPECTION REPORTS SHALL BE SUBMITTED TO DSA AND SEOR, AOR, CONTRACTOR AND SCHOOL DISTRICT. THE FINAL REPORT BY THE SPECIAL INSPECTOR(S) MUST CERTIFY THAT THE ENTIRE STRUCTURAL SYSTEM COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT THESE INSPECTIONS ARE PERFORMED.
- WORK REQUIRING SPECIAL INSPECTION SHALL BE OBSERVED BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS PERFORMED AND AT THE COMPLETION OF WORK. CONTINUOUS INSPECTION CONSISTS OF FULL-TIME INSPECTION. PERIODIC INSPECTION CONSISTS OF PART-TIME OR INTERMITTENT INSPECTION.

ROUGH CARPENTRY / WOOD

- ALL GRADES SPECIFIED ARE MINIMUM GRADES REQUIRED. DOUGLAS FIR-LARCH SHALL BE GRADED BY A GRADING AGENCY CERTIFIED BY THE ALSO TO THE WCLB OR WCPA GRADING RULES, CONFORMING TO DOC P-20. REDWOOD SHALL BE GRADED BY THE WCPA REDWOOD ASSOCIATION, REDWOOD INSPECTION SERVICE.
- WOOD SPECIES SPECIFICATIONS (D*) INDICATES DOUGLAS FIR-LARCH CONFORMING TO DOC P-20:
NON-LOAD-BEARING STUDS, TOP PLATES, BLOCKING, FURRING AND BRACING
JOISTS, RAFTERS, PURLINS, BEAMS & POSTS
LOAD-BEARING STUDS (UNO)
HEIGHT NOT EXCEEDING 15'
HEIGHT EXCEEDING 15'
HEIGHT EXCEEDING 15'

- MOISTURE CONTENT OF SAWN LUMBER SHALL NOT EXCEED 19% WHEN FRAMING STARTS OR SHEATHING IS APPLIED, ANY NONCOMPLIANT WORK SHALL BE REJECTED AND REFRAMED WITH ACCEPTABLE LUMBER.
- ARCHITECTURALLY EXPOSED TIMBERS 4" NOMINAL IN THE LEAST DIMENSION SHALL NOT CONTAIN BOXED HEART.
- PROVIDE FIRE-RETARDANT-TREATED (FRT) LUMBER AND WOOD STRUCTURAL PANELS PER CBC SECTION 2303.2 WHERE INDICATED BY ARCHITECT.
- WOOD MEMBERS SHALL BE PRESERVATIVE-TREATED (PT) OR NATURALLY DURABLE (WITH APPROVAL OF EOR) WHERE EXPOSED TO WEATHER AND IN ACCORDANCE WITH CBC SECTION 2304.12. SILL PLATES SHALL BE PRESERVATIVE-TREATED DOUGLAS FIR #2, END CUTS AND HOLES IN PT SILL PLATES SHALL BE TREATED.
- FASTENERS, INCLUDING NUTS AND WASHERS, FOR PRESERVATIVE-TREATED WOOD, WOOD EXPOSED TO WEATHER, AND FIRE-RETARDANT-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHTS FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A153. EXCEPTIONS: FASTENERS OTHER THAN NAILS, TIMBER RIVETS, WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B965, CLASS 55 MINIMUM, AND PLACEMENT JOINTS NOT SHOWN ON THE STRUCTURAL PLANS.
MINUTES FROM PREINSTALLATION CONFERENCE.
- UNLESS NOTED OTHERWISE, SILL FASTENERS FOR INTERIOR NON-STRUCTURAL WALLS MAY BE 0.15" DIAMETER X 1 1/4" EMBED PDP# AT 16"OC.
- SILL PLATES SHALL BE BOLTED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS AT 48" OC MAX, UNO, WITH A BOLT BETWEEN 7 X BOLT DIAMETER (4 3/8" MIN) AND 12" FROM THE END OF EACH PIECE OF SILL (2 BOLTS MIN EACH PIECE). PIECE OF SILL SHALL BE CONSIDERED ENDED WHERE PLATE IS CUT OVER ONE-THIRD OF CROSS-SECTION.
- ANCHOR BOLTS FOR BEARING WALLS SHALL HAVE 9" EMBEDMENT (UNO) MEASURED FROM TOP OF SLAB.
- ALL BOLTS IN WOOD SHALL BE ASTM A307 STANDARD BOLTS, UNO. BOLTS AND SCREWS SHALL BE TIGHTENED AT TIME OF ERECTION AND RETIGHTENED BEFORE CLOSING IN OR AT THE COMPLETION OF THE JOB. HOLES IN WOOD AND STEEL MEMBERS FOR BOLTS SHALL BE THE NOMINAL BOLT DIAMETER PLUS 1/16".
- NAIL SPACING SHALL NOT BE LESS THAN THE REQUIRED PENETRATION, EDGE DISTANCES AND END DISTANCES SHALL NOT BE LESS THAN 1/2" OF THE REQUIRED PENETRATION, ALL NAIL SPACING, EDGE DISTANCES, AND END DISTANCES SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD. HOLES FOR NAILS, WHERE NECESSARY TO PREVENT SPLITTING, SHALL BE BORED OF A DIAMETER SMALLER THAN THAT OF THE NAILS.
- HOLES IN WOOD FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME DIAMETER AND DEPTH AS THE SHANK. HOLES FOR THE THREADED PORTION SHALL BE BORED WITH A BIT DIAMETER EQUAL TO 40% TO 70% OF THE SHANK DIAMETER IN DOUGLAS FIR. FOR OTHER WOOD SPECIES, REFER TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS).
- LAG SCREWS AND SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
- STANDARD CUT STEEL WASHERS SHALL BE PROVIDED UNDER HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS WHICH BEAR ON WOOD. SEE SHEAR WALL SCHEDULE FOR WASHER REQUIREMENTS AT SHEAR WALL SILL BOLTS WHERE OCCUR.
- STUD BEARING WALLS AND PARTITIONS SHALL HAVE DOUBLE TOP PLATES LAPPED AT INTERSECTIONS, JOINTS IN UPPER AND LOWER MEMBERS OF DOUBLE TOP PLATES SHALL BE STAGGERED AT LEAST 4'-0".
- NOTHING AND HOLES SHALL NOT BE ALLOWED EXCEPT AS DETAILED ON THESE PLANS OR AS APPROVED BY THE EOR.
- INSTALL WINDOWS AND DOORS IN STUD WALLS AFTER DEAD LOADS ARE APPLIED, AND PROVIDE A 1/2" SHIM SPACING AT THE HEAD CONDITION.
- STRUCTURAL FLOOR, ROOF AND WALL SHEATHING SHALL BE APA-RATED AND SHALL CONFORM TO DOC P-1 OR P-2.
- EXTERIOR STUD WALLS SHALL BE COMPLETELY SHEATHED WITH 1/2" SHEATHING, EXPOSURE-1 (3216), TYPICAL, UNO.
- INTERIOR BEARING WALLS SHALL BE SHEATHED WITH 1/2" SHEATHING, EXPOSURE-1 (3216), TYPICAL, UNO.
- ALL STRUCTURAL WALL SHEATHING SHALL BE SPLICED ON 2" NOMINAL BLOCKING AT HORIZONTAL JOINTS, UNO.
- AT FLOOR FRAMING, PROVIDE BRIDGING OR FULL-HEIGHT BLOCKING AS REQUIRED BY THE BUILDING CODE.
- STRUCTURAL FLOOR AND ROOF SHEATHING SHALL BE APA-RATED EXPOSURE-1, 1/2" GAP SHALL BE PROVIDED BETWEEN ADJACENT SHEATHING PANELS, PANELS WITH GRADE STAMP INDICATION "SIZED FOR SPACING" MAY BE USED TO FACILITATE THIS REQUIREMENT. SHEATHING AT EXTERIOR DECKS SHALL BE EXTERIOR RATED PLYWOOD.

STRUCTURAL SUBMITTALS

- REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE EOR IS FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE EOR (ALLOW FOR A REVIEW DURATION OF 10 BUSINESS DAYS), AND SHALL CONSIST OF ELECTRONIC FILES.
- REPRODUCTION OF STRUCTURAL PLANS AND DETAILS FOR SHOP DRAWINGS IS PROHIBITED. SUBCONTRACTOR/FABRICATOR IS TO PROVIDE INDEPENDENTLY CREATED DRAWINGS BASED ON THE STRUCTURAL PLANS AND DETAILS. SHOP DRAWINGS THAT ARE REPRODUCTIONS OF STRUCTURAL DRAWINGS WILL NOT BE REVIEWED.
- EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND-OR SEISMIC-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND-OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.
- THE FOLLOWING LIST SUMMARIZES REQUIRED STRUCTURAL SUBMITTALS FOR THIS PROJECT. REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST AND ADDITIONAL REQUIREMENTS.
 - QUALIFICATION DATA FOR APPROVED INSTALLERS AND FABRICATORS
 - CERTIFICATES OF PERFORMANCE FOR PREFABRICATED MEMBERS
 - SEISMIC JOINT AND EXPANSION JOINT COVER PRODUCT DATA

CONCRETE REINFORCEMENT
• MANUFACTURER'S PRODUCT DATA, IDENTIFICATION AND INSTALLATION PROCEDURES FOR PROPRIETARY MATERIALS AND REINFORCEMENT
• STEEL PRODUCERS CERTIFICATES OF MILL ANALYSIS, TENSILE AND BEND TESTS
• SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT

CASIT-IN-PLACE CONCRETE
• DESIGN MIX FOR EACH CONCRETE MIX
• MATERIAL TEST REPORTS
• MATERIAL CERTIFICATES FOR CEMENT, AGGREGATES AND ADMIXTURES
• SHOP DRAWINGS FOR PROPOSED LOCATIONS OF ADDITIONAL CONSTRUCTION OR CONTROL JOINTS NOT SHOWN ON THE STRUCTURAL PLANS
• MINUTES FROM PREINSTALLATION CONFERENCE

UNIT MASONRY
• DESIGN MIX FOR GROUT
• MATERIAL TEST REPORTS

STRUCTURAL STEEL
• MANUFACTURERS MILL CERTIFICATES
• MILL TEST REPORTS
• SHOP DRAWINGS FOR FABRICATION AND ASSEMBLY OF MEMBERS
• ERECTION PLAN SEQUENCE AND PROCEDURES
• WELDING PROCEDURE SPECIFICATIONS (WPS)
• CERTIFICATES FOR ALL WELDERS VERIFYING CURRENT AWS QUALIFICATIONS
• TEST REPORTS FOR SHOP AND FIELD WELDED AND BOLTED CONNECTIONS

ROUGH CARPENTRY
• PRODUCT DATA FOR TREATMENTS AND PRESERVATIVES
• MATERIAL CERTIFICATES FOR DIMENSION LUMBER

GLUED LAMINATED BEAMS
• SHOP DRAWINGS INDICATING LAYOUT
• CERTIFICATE OF CONFORMANCE

NAILING SCHEDULE

(UNLESS OTHERWISE NOTED ON PLANS)
COMMON NAILS SHALL BE USED FOR NAILING AT TYPICAL CONNECTIONS NOTED BELOW (UNO).

CONNECTION, NAIL TYPE	NAILING
JOISTS TO JOIST OR GIRDER, TOENAIL	(3) 8d
JOISTS TO RIM JOIST, FACE NAIL	(3) 16d
BRIDGING TO JOIST, TOENAIL, EACH END	(2) 8d
BLOCKING BETWEEN JOISTS/RAFTERS TO TOP PLATE, TOENAIL	(3) 8d
1" x 6" SUBFLOOR OR LESS TO EACH JOIST, ... WIDER THAN 1" x 6" SUBFLOOR TO EACH JOIST, BLIND AND FACE NAIL	(2) 8d (3) 8d
2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	(2) 16d
SILL PLATE TO JOIST OR BLOCKING, FACE NAIL	16d @ 16"OC
TOP PLATE TO STUD, END NAIL	(2) 16d, TYP. UNO (4) 16d @ 2x10 STUDS
STUD TO SILL PLATE	(4) 8d TOENAIL, OR (2) 16d END NAIL, TYP. UNO (7) 8d TOENAIL, OR (4) 16d END NAIL @ 2x10 STUDS (2) 20 END NAIL @ 3x SILL PLATE
DOUBLE STUDS, FACE NAIL	16d @ 24"OC
DOUBLE TOP PLATES, FACE NAIL	16d @ 16"OC
TOP PLATES, LAPS, FACE NAIL	(8) 16d, UNO (18) 16d @ SHEARWALL LOCATIONS, UNO
TOP PLATES AT INTERSECTIONS, FACE NAIL	(2) 16d
CONTINUOUS HEADER, TWO PIECES	16d @ 16"OC ALONG EA EDGE
CEILING JOISTS TO PLATE, TOENAIL	(3) 8d
CONTINUOUS HEADER TO STUD, TOENAIL	(4) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) 8d
RAFTER TO PLATE, TOENAIL	(3) 8d
RIM JOIST TO TOP PLATE, TOENAIL	8d @ 6"OC
JACK RAFTER TO HIP, FACE NAIL	(2) 16d
1" BRACE TO EACH STUD & PLATE, FACE NAIL	(2) 8d
ROOF RAFTER TO 2x RIGID BEAM, FACE NAIL	(2) 16d
1/2" SHEATHING OR LESS TO EACH BEARING, FACE NAIL	(3) 8d
WIDER THAN 1/2" SHEATHING TO EACH BEARING, FACE NAIL	(3) 8d
2" PLANKS	16d @ EA BEARING
BUILT-UP CORNER STUDS	16d @ 24"OC
BUILT-UP GIRDERS AND BEAMS	20d @ 32"OC @ TOP & BOTTOM & STGRD (2) 20d @ 16" @ EA BEARING

SIZE	DIAMETER (IN)	LENGTH (IN)
8d	0.131	2 1/2
10d	0.148	3
12d	0.148	3 1/4
16d	0.162	3 1/2
20d	0.192	4

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FEB 05 2025

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BUILDING DEPARTMENT

STRUCTURAL OBSERVATIONS

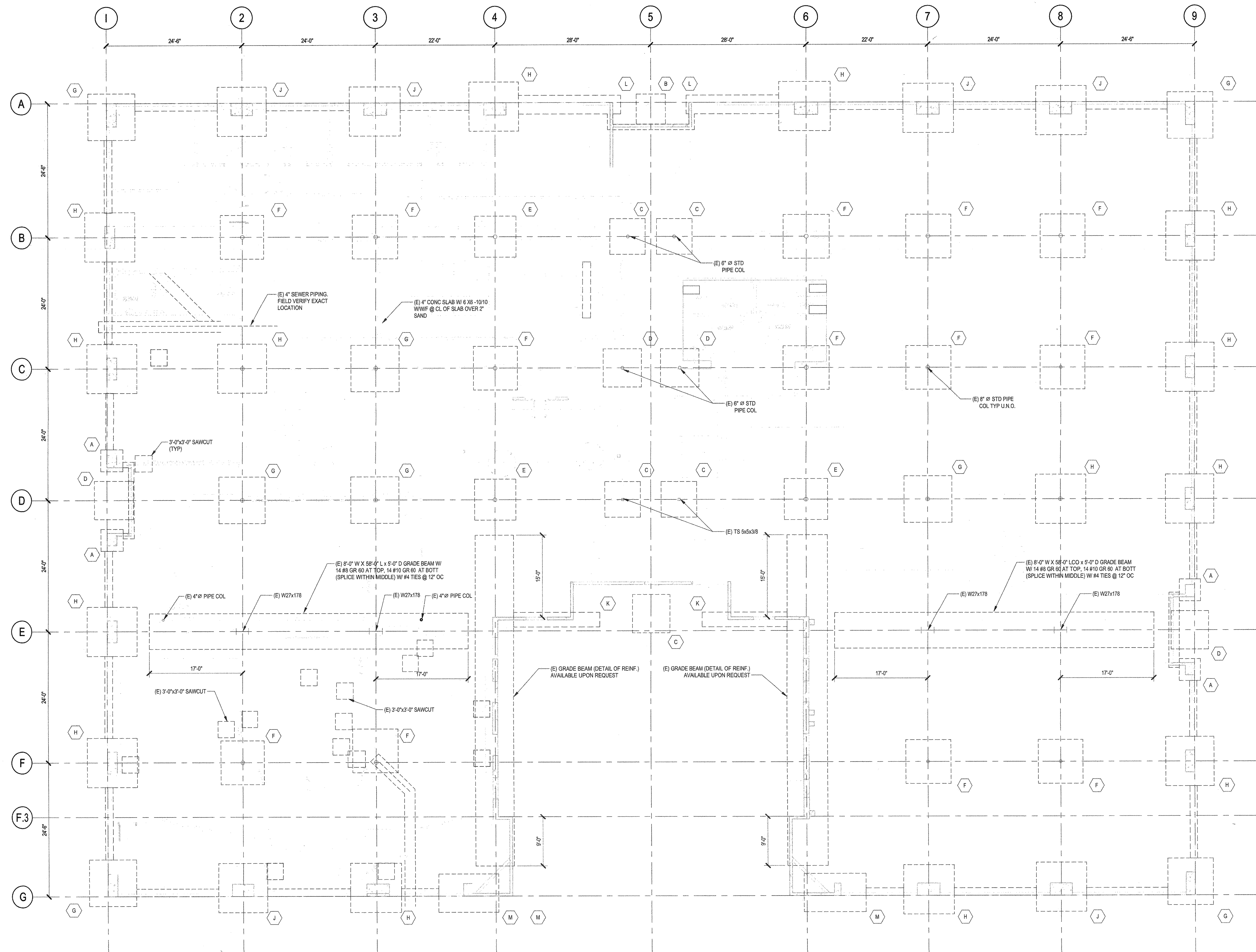
- VISUAL OBSERVATIONS WILL BE PERFORMED AT THE DISCRETION OF THE OWNER, ARCHITECT, EOR, AND AS REQUIRED BY THE BUILDING OFFICIAL IN ACCORDANCE WITH THE BUILDING CODE. VISUAL OBSERVATIONS SHALL NOT BE CONSIDERED AS A SUBSTITUTE FOR THE SPECIAL INSPECTION REQUIREMENTS.
- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE SEOR AS TO WHEN EACH MAJOR PHASE OF CONSTRUCTION IS READY FOR OBSERVATION A MINIMUM OF FIVE BUSINESS DAYS IN ADVANCE.
- THE FOLLOWING MAJOR PHASES OF CONSTRUCTION REQUIRE A SITE VISIT AND STRUCTURAL OBSERVATION REPORT FROM THE SEOR:
 - FOUNDATION REBAR AND ANCHORS - PRIOR TO FIRST POUR OF CONCRETE
 - STRUCTURAL FRAMING - AFTER ERECTION AND PRIOR TO CLOSING IN
 - RAISED FLOOR SLABS AND REBAR - PRIOR TO FIRST POUR OF CONCRETE
 - ROOF RAILING - PRIOR TO INSTALLATION OF ROOFING AND CRICKETS
 - COMPLETION OF THE STRUCTURAL SYSTEM
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NAILING, REINFORCEMENT, WELDS, CONNECTIONS, ETC. ARE VISIBLE FOR OBSERVATION WHEN THE SEOR IS ON-SITE AND FOR ANY SCHEDULING DELAYS DUE TO NONCOMPLIANT ITEMS FOUND DURING THE OBSERVATION.
- AT THE CONCLUSION OF THE WORK INCLUDED IN THE PERMIT, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

PRODUCT REPORTS

- FOR ALL ITEMS IN THE CONSTRUCTION DOCUMENTS NOT NOTED WITH A SPECIFIC PRODUCT NAME OR MANUFACTURER, THE CONTRACTOR SHALL PROVIDE A PRODUCT SPECIFIED IN THE TABLE BELOW.
- THE FOLLOWING PRODUCTS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE REFERENCED PRODUCT REPORTS, UNO.
- A PRODUCT MAY BE SUBSTITUTED FOR AN EQUIVALENT PRODUCT PER THE SCHEDULE BELOW IF APPROVED BY THE EOR AND THE BUILDING OFFICIAL.
- PRODUCTS SPECIFIED BY TYPE ONLY MAY USE ANY PRODUCT FROM THE SCHEDULE BELOW.

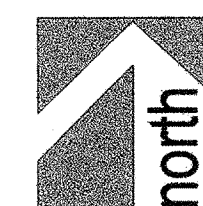
TYPE	PRODUCT	ICCI	IAFIRM	LARR#
EXPANSION ANCHOR TO CONCRETE*	HLTI KWIK BOLT TZ	ESR-1917	-	25701
	MKT SZ	ESR-3173	-	-
	SIMPSON STRONG-BOLT Z	ESR-3037	-	25891
	DEWALT POWER STUD-S01	ESR-2502	-	25767
	DEWALT POWER STUD-S02/S03/S04/S05/S06	ESR-2607	-	25824
SCREW ANCHOR TO CONCRETE	HLTI KWIK-HUS-EZ	ESR-3277	-	25897
	SIMPSON ITTEN HD	ESR-2113	-	-
	SIMPSON SS ITTEN SCREW	-	0480	26126
	DEWALT SCREW-BOLT Z	ESR-2269	-	25975
	HLTI LOW-VELOCITY	ESR-2269	-	25975
SHOTPIN (POWER DRIVEN FASTENER) **	ITW / RAMSET POWER-DRIVEN	ESR-1198	-	22686
	SIMPSON POWER-ACTUATED	ESR-2136	-	25469
	DEWALT TRACK-IT CS	ESR-3275	-	25620
	DEWALT POWER-DRIVEN	ESR-2024	-	25504
	HLTI KWIK-PRO	ESR-2186	-	25678
SHEET METAL SCREW **	HLTI KWIK-FLEX	ESR-3332	-	25596
	SIMPSON X METAL SCREWS	ESR-3006	0326	25917
	PRIMERCOURED DARTS	ESR-3408	-	25954
	ITW BURLIK TBS	ESR-1076	-	25915
	ELOD DRILL-FLEX	ESR-3332	-	25596
WOOD FRAMING CLIPS	SIMPSON STRONG-TIE CLIPS	ESR-2623	-	-
	USP STRUCTURAL CONNECTORS	ESR-2685	-	-
	SIMPSON STRONG DRIVE SCREWS (SDS)	ESR-2236	-	25711
WOOD SCREWS	SIMPSON SD TIMBER SCREWS (SDS/SDWH)	-	0192	25936
	FASTENMASTER TIMBERLOK / HEADLOK / LEDGERLOK	ESR-1078	-	-
STEEL METAL STUD	ISSMA	ESR-3064P	-	-

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1 FOUNDATION PLAN
1/8" = 1'-0"

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EXISTING PAD FOOTING SCHEDULE				
Mark	Size (ft.-in)	Size (in)	Thickness	Reinforcing
A	4'-0" x 4'-0"	48" x 48"	12"	5 #4 EA. WAY @ BOT.
B	5'-0" x 5'-0"	60" x 60"	14"	7 #5 EA. WAY @ BOT.
C	6'-0" x 6'-0"	72" x 72"	16"	8 #6 EA. WAY @ BOT.
D	7'-0" x 7'-0"	84" x 84"	18"	8 #6 EA. WAY @ BOT.
E	7'-6" x 7'-6"	90" x 90"	18"	10 #6 EA. WAY @ BOT.
F	8'-0" x 8'-0"	96" x 96"	20"	8 #7 EA. WAY @ BOT.
G	8'-6" x 8'-6"	102" x 102"	20"	9 #8 EA. WAY @ BOT.
H	9'-0" x 9'-0"	108" x 108"	22"	10 #8 EA. WAY @ BOT.
J	9'-6" x 9'-6"	120" x 120"	24"	10 #8 EA. WAY @ BOT.
K	3'-6" x 14'-0"	36" x 168"	24"	4 #5 CONT. TOP & BOT W/ #4 TIES @ 12" OC
L	3'-6" x 16'-0"	36" x 192"	18"	4 #5 CONT. TOP & BOT W/ #4 TIES @ 12" OC
M	7'-0" x 11'-0"	84" x 132"	24"	8 #7 TRANSVERSE, 14 #8 LONGITUDINAL

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S-2.01
EXISTING
FOUNDATION PLAN

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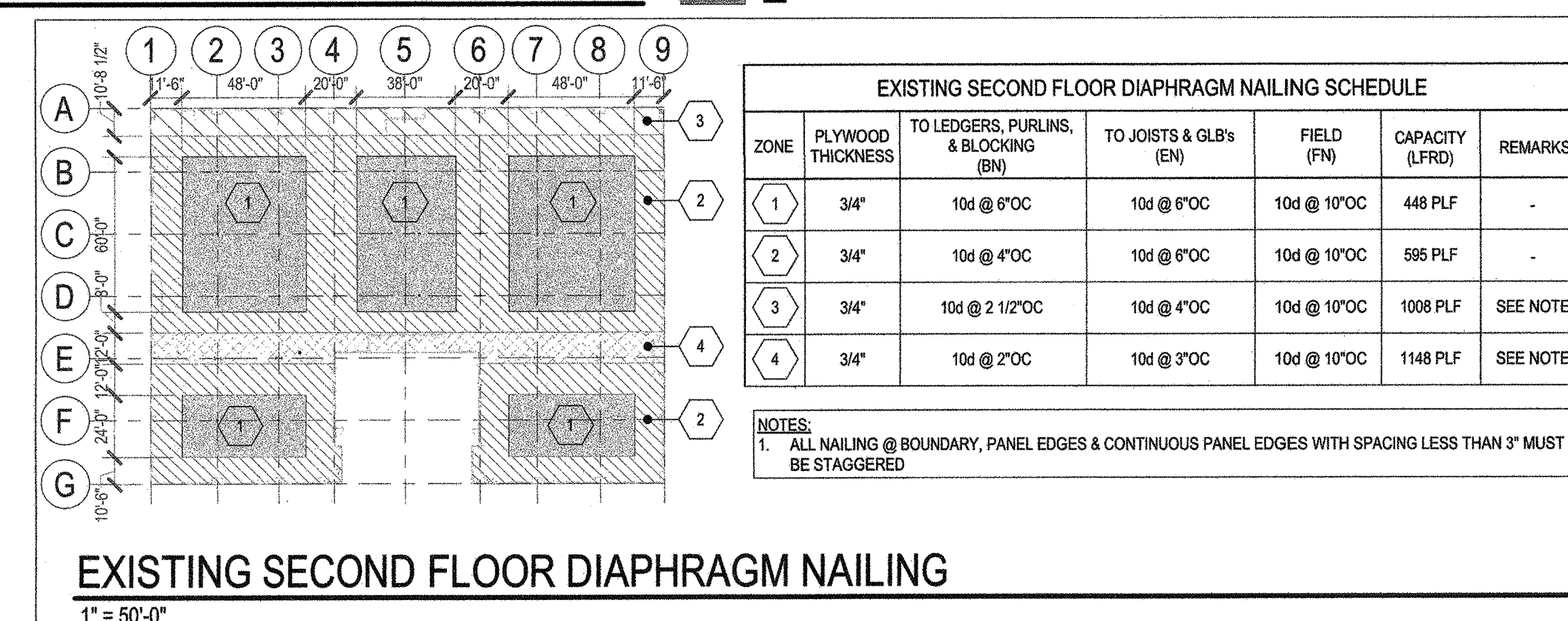
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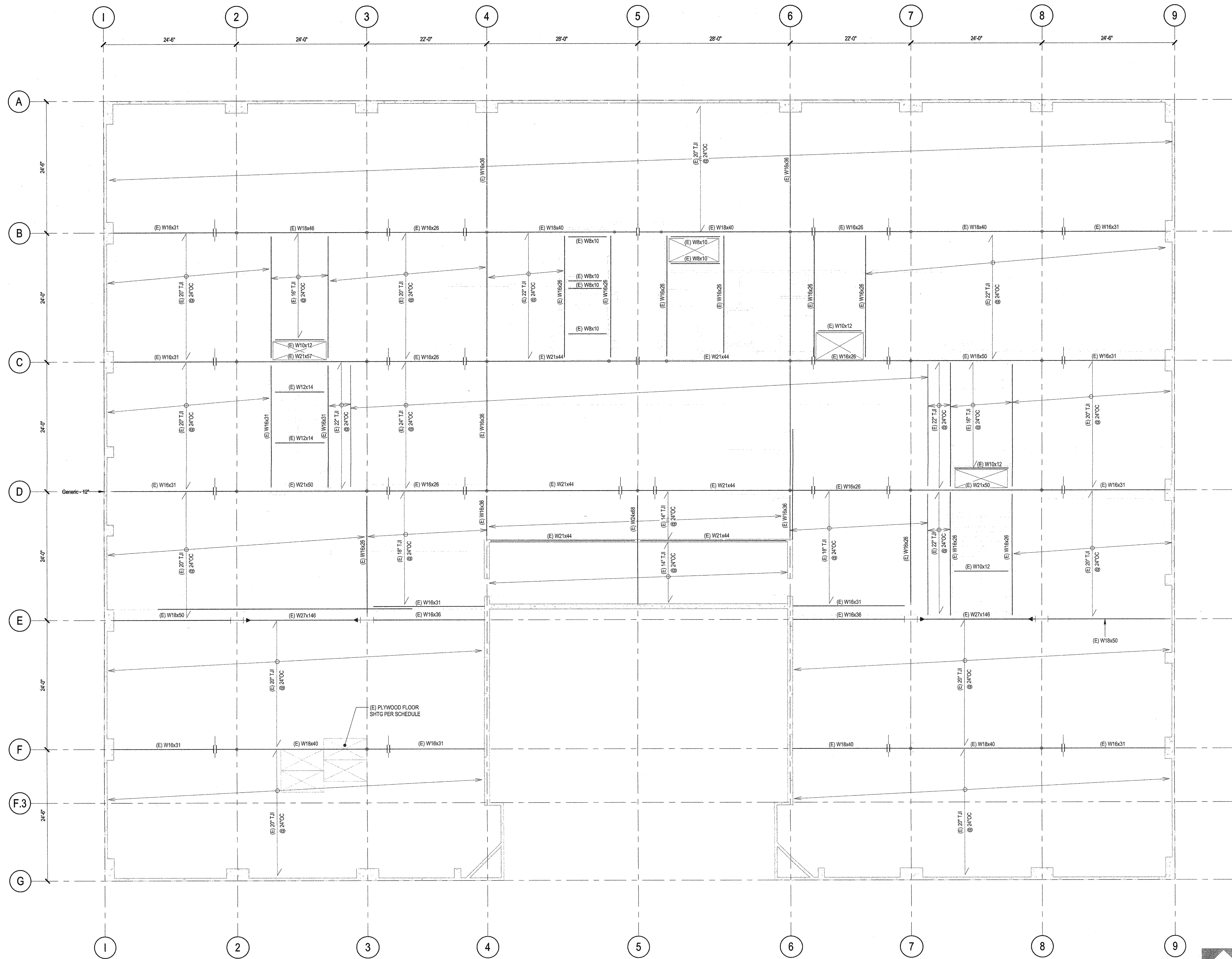
DATE:	06.26.2024
DRAWN:	Author

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S-2.11
2ND FLOOR
FRAMING PLAN

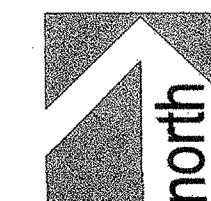


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1 3rd - FLOOR FRAMING PLAN
1/8" = 1'-0"

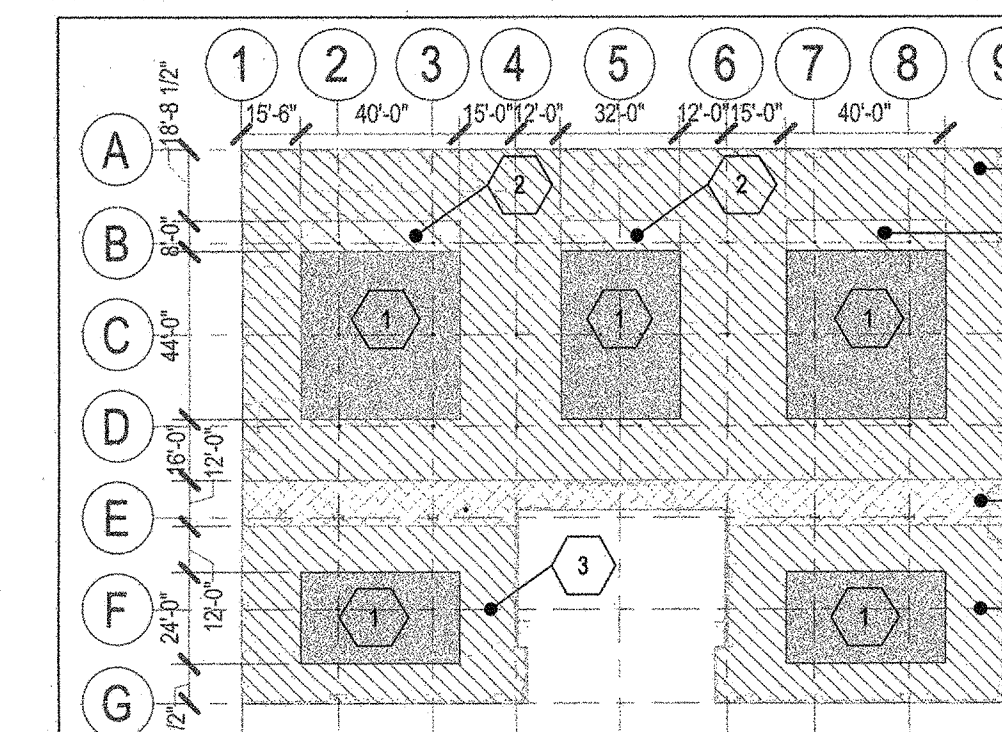
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EXISTING THIRD FLOOR DIAPHRAGM NAILING
1" = 50'-0"

EXISTING THIRD FLOOR DIAPHRAGM NAILING SCHEDULE					
ZONE	PLYWOOD THICKNESS	TO LEDGERS, PURLINS, & BLOCKING (BN)	TO JOISTS & GLB'S (EN)	FIELD (FN)	CAPACITY (ASD)
1	3/4"	10d @ 6"OC	10d @ 6"OC	10d @ 10"OC	505 PLF
2	3/4"	10d @ 4"OC	10d @ 6"OC	10d @ 10"OC	672 PLF
3	3/4"	10d @ 2 1/2"OC	10d @ 4"OC	10d @ 10"OC	1007 PLF
4	3/4"	10d @ 2"OC	10d @ 3"OC	10d @ 10"OC	1475 PLF

NOTES:
1. ALL NAILING @ BOUNDARY, PANEL EDGES & CONTINUOUS PANEL EDGES WITH SPACING LESS THAN 3" MUST BE STAGGERED.
2. 3/4" PLYWOOD SHEATHING STRUCT I INDEX 48/24 BLOCK ALL EDGES.

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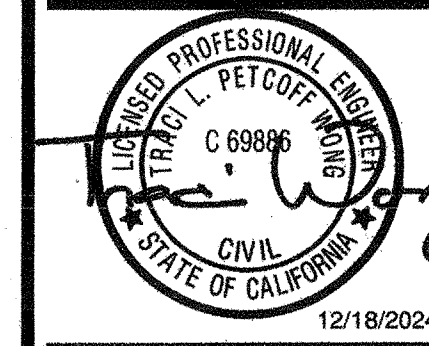
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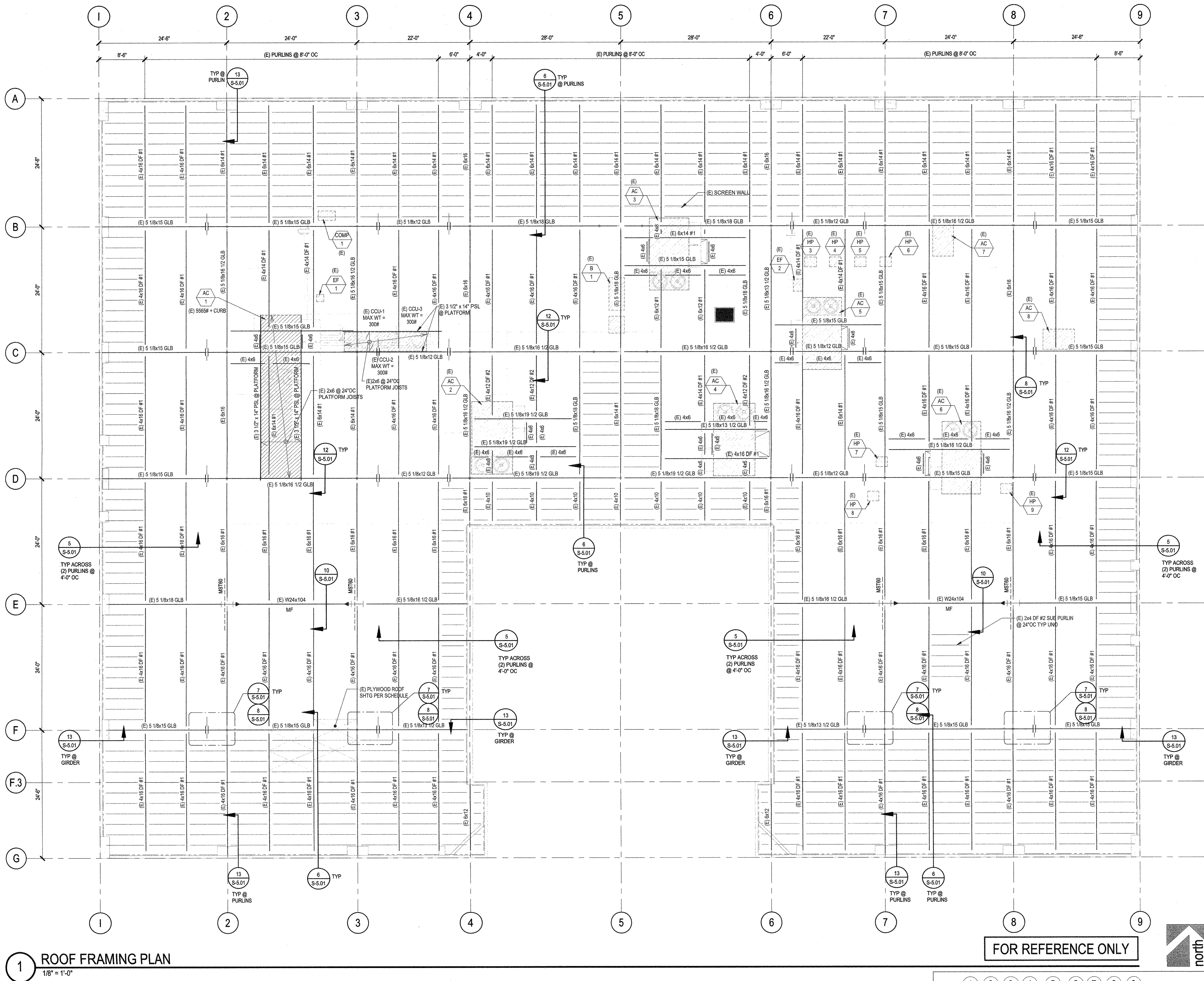
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S-2.12
3RD FLOOR
FRAMING PLAN



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1 ROOF FRAMING PLAN
1/8" = 1'-0"

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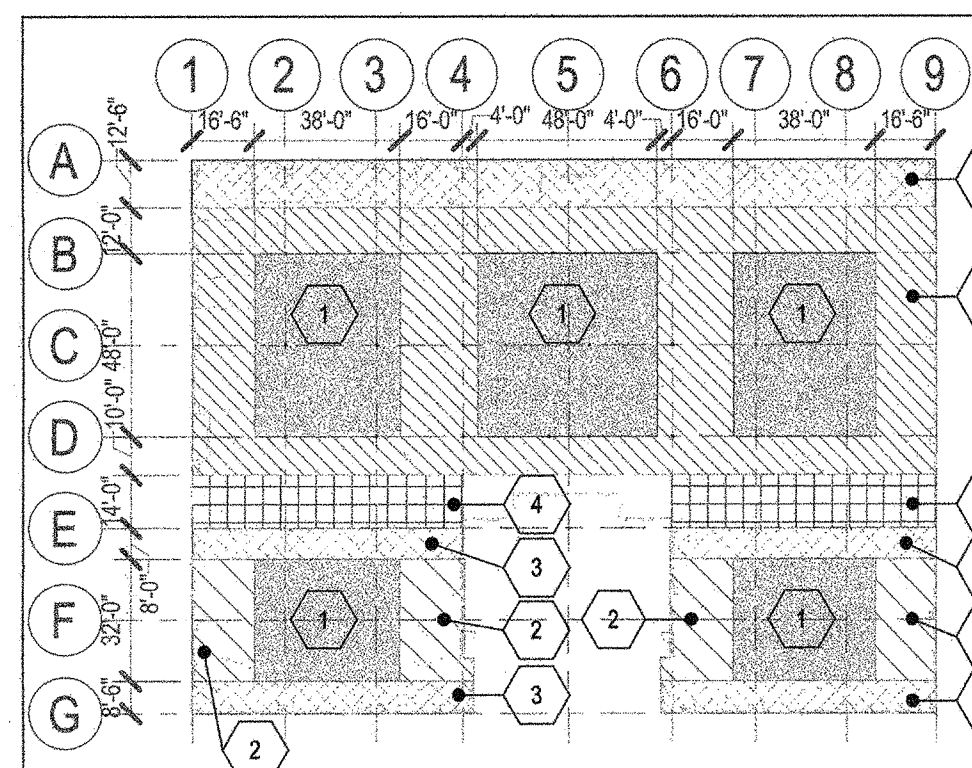
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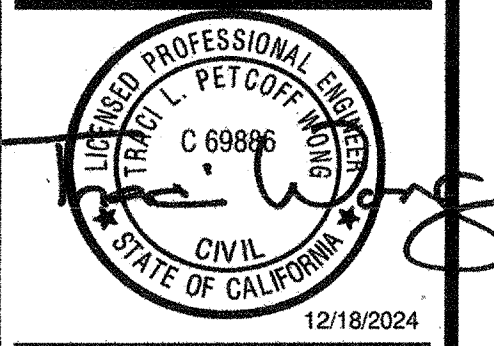
EXISTING ROOF DIAPHRAGM NAILING
1" = 50'-0"

EXISTING ROOF DIAPHRAGM NAILING SCHEDULE					
ZONE	PLYWOOD THICKNESS	TO LEDGERS, PURLINS, & BLOCKING (N)	TO JOISTS & GLBs (N)	FIELD (N)	CAPACITY (ASD)
1	1/2"	10d @ 8"OC	10d @ 8"OC	10d @ 12"OC	405 PLF
2	1/2"	10d @ 4"OC	10d @ 8"OC	10d @ 12"OC	540 PLF
3	1/2"	10d @ 2 1/2"OC	10d @ 4"OC	10d @ 12"OC	910 PLF
4	1/2"	10d @ 2"OC	10d @ 3"OC	10d @ 12"OC	1030 PLF

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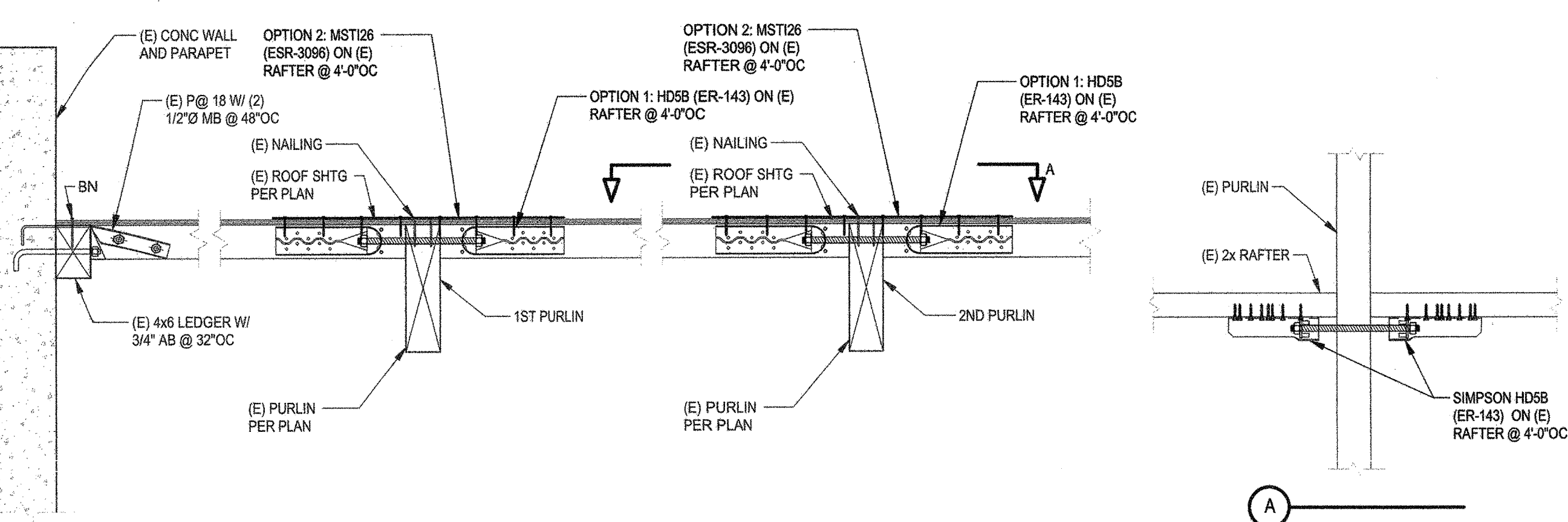
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S-2.13
ROOF FRAMING
PLAN



5 SEISMIC RAFTER TIE DETAILS



11 SISTER DETAIL
1" = 1'-0"



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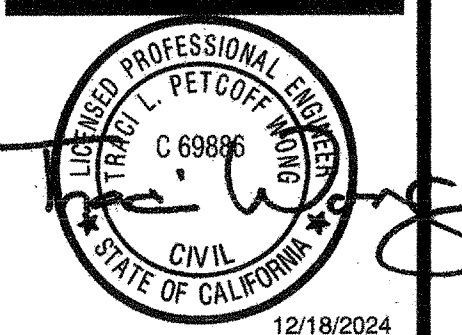
7 CROSS TIE AT HINGE CONNECTION
1" = 1'-0"



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