STRUCTURAL ABBREVIATIONS

A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT (ANCHOR ROD)
ADD	ADDENDUM
ADDL	ADDITIONAL
ADJ	ADJACENT
ADJUST	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE (LY)
ARCH	ARCHITECTURAL
ASPH	ASPHALT
AVG	AVERAGE

B/	BOTTOM OF
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCHMARK/ BEAM
BOD	BASIS OF DESIGN
BOT	BOTTOM
BP	BEARING PLATE
BRDG	BRIDGING
BRG	BEARING
BRK	BRICK
BSMT	BASEMENT

C&C	COMPONENTS & CLADDING
CANT	CANTILEVER
CFP	CONCRETE FIREPROOF
CFS	COLD FORMED STEEL
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CLOSET/ CENTER LINE
CLG	CEILING
CLKG	CAULKING
CLL	CONTRACT LIMIT LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPACTED
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUE (OUS)
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CTR	CENTER (ED)

D	DEEP, DEPTH
DBL	DOUBLE
DEG	DEGREES
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DL	DEAD LOAD
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
DWL	DOWELS

E	EAST
E/	EDGE OF
EA	EACH
EF	EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC (AL)
ELEV	ELEVATOR
EMBED	EMBEDMENT
ENGR	ENGINEER
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EXPOSED SLAB
ES GWB	EXTERIOR SHEATHING GYPSUM WALL BOARD
EST	ESTIMATE (D)
EW	EACH WAY
EX	EXISTING (EX W12x30)
EXIST	EXISTING
EXP	EXPANSION, EXPAND
EXT	EXTERIOR

F/	FACE OF
F/ CONC	FACE OF CONCRETE
F/ FDN	FACE OF FOUNDATION
F/ MAS	FACE OF MASONRY
F/ STUD	FACE OF STUD
FAB	FABRICATE
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FIN	FINISH (ED)
FLG	FLANGE (ED)
FLR	FLOOR (ING)
FP	FIRE PROTECTION
FR	FRAME (ING)
FS	FOOTING STEP
FT	FEET, FOOT
FTG	FOOTING
FURR	FURRING
FUT	FUTURE

GA	GAGE, GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GEN	GENEARL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM

HDR	HEADER
HEX	HEXAGONAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HSS	HOLLOW STRUCTURAL SECTIONS
HT	HEIGHT
HVAC	HEATING/VENTILATING/AIR CONDITIONING

ID	INSIDE DIAMETER
IN	INCH OR INCHES
INC	INCORPORATED
INCL	INCLUDE (D) (ING), INCLUSIVE
INFO	INFORMATION
INSUL	INSULATE (D), (ION)
INT	INTERIOR
INV	INVERT/ INVERT ELEVATION

J	JOIST
JT	JOINT

K	KIPS
KB	KNEE BRACE
KSI	KIP PER SQUARE INCH

L	LENGTH, LONG
LBS	POUNDS
LF	LINEAR FOOT (FEET)
LIN	LINEAR
LL	LIVE LOAD
LLBB	LONG LEG BACK TO BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LOUV	LOUVER
LP	LOW POINT
LSL	LAMINATED STRAND LUMBER
LTWT	LIGHTWEIGHT
LVL	LAMINATED VENEER LUMBER

MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MEM	MEMBER
MEMB	MEMBRANE
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MONO	MONOLITHIC
MPH	MILES PER HOUR
MTL	METAL

N	NORTH
N/A	NOT APPLICABLE
NF	NEAR FACE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE

OC	ON CENTER (S)
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE

PAF	POWER ACTUATED FASTNER
PCF	POUNDS PER CUBIC FOOT
PERF	PERFORATED
PERM	PERMANENT
PL	PLATE
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PREP	PREPARE (ATION)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	PRESSURE TREATED

QTY	QUANTITY

R	RADIUS, RISER, OR REGISTER
RAD	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCE (D), (ING)
REQD	REQUIRED
REV	REVISION (S), REVISED
RO	ROUGH OPENING
RTU	ROOFTOP UNIT

S	SOUTH
SAN	SANITARY
SCH	SCHEDULE
SECT	SECTION
SF	SQUARE FOOT (FEET)
SFU	SPLIT FACE MASONRY UNIT
SHT	SHEET
SIM	SIMILAR
SOG	SLAB ON GRADE
SP	SPECIAL
SPEC	SPECIFICATION (S)
SQ	SQUARE
SS	STAINLESS STEEL
ST	STORM OR STREET
STD	STANDARD
STIFF	STIFFNER
STL	STEEL
STRUCT	STRUCTURE (AL)
SUSP	SUSPENDED
SYM	SYMMETRY (ICAL)
SYS	SYSTEM

T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
T&S	TEMPERATURE AND SHRINKAGE REINFORCING
T/	TOP OF
T/ CONC	TOP OF CONCRETE
T/ FTG	TOP OF FOOTING
T/ GB	TOP OF GRADE BEAM
T/ PIER	TOP OF PIER
T/ PLANK	TOP OF PLANK
T/ SLAB	TOP OF SLAB
T/ STL	TOP OF STEEL
T/ WALL	TOP OF WALL
TBD	TO BE DETERMINED
TEMP	TEMPERATURE OR TEMPORARY
THK	THICK (NESS)
TOL	TOLERANCE
TRANS	TRANSVERSE
TYP	TYPICAL
TYPOS	TYPICAL OTHER SIDE

UON	UNLESS OTHERWISE NOTED

VAR	VARIES (ABLE)
VB	VAPOR BARRIER
VERT	VERTICAL
VIF	VERIFY IN FIELD
VOL	VOLUME

W	WEST, WIDE, WIDTH
W/	WITH
W/O	WITHOUT
WD	WOOD
WP	WATERPROOFED (ING) / WORKING POINT
WS	WATERSTOP
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

CONTRACTOR RESPONSIBILITIES

1. FOLLOW ALL RECOMMENDATIONS CONTAINED IN GEOTECHNICAL REPORT # PREPARED BY ????????, AND DATED ##-##-####. ANY DEVIATIONS FROM THIS REPORT MUST BE APPROVED BY OWNER OR ENGINEER OF RECORD.
2. CONTRACTOR SHALL DETERMINE EXISTING MATERIALS, CONDITIONS AND DIMENSIONS BY VISITING THE SITE. VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING AND/OR FABRICATING MATERIAL. DIMENSIONS ON DRAWINGS ARE REPRESENTIVE ONLY.
3. CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN HEREIN WITH ARCHITECTURAL PLANS, SECTIONS, AND DETAILS PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE AND SHALL NOTIFY ARCHITECT/ ENGINEER IN WRITING OF DISCREPANCIES.
4. CONTRACTOR SHALL FIELD LOCATE AND VERIFY GEOMETRY OF ALL EXISTING STRUCTURAL MEMBERS AND COORDINATE WITH CONTRACT DRAWINGS. IF DISCREPANCIES ARE FOUND NOTIFY ARCHITECT/ ENGINEER IN WRITING.
5. COORDINATE STRUCTURAL WORK WITH ALL OTHER TRADES.
6. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STRUCTURE IS STABLE UNTIL ALL STRUCTURAL ELEMENTS ARE INSTALLED PER DOCUMENTS.
7. DO NOT SCALE DRAWINGS

CONCRETE NOTES

1. CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST AMERICAN CONCRETE INSTITUTE ACI-301, 305, 306, 315, 318, AND 347. LATEST EDITIONS
2. COMPRESSIVE STRENGTH OF CONCRETE IN 28 DAYS:
   a. SLAB-ON-GRADE: 4,000 PSI
   b. FOUNDATIONS AND PIERS 4,000 PSI
3. SEE SPECIFIACTION FOR ADDITIONAL REQUIREMENTS
4. PROVIDE 3" REINFORCING STEEL COVER WHERE CAST AGAINST AND EXPOSED TO EARTH
5. PROVIDE 2" REINFORCING STEEL COVER WHERE FORMED, BUT EXPOSED TO EARTH.
6. REINFORCING BAR SPLICES AND EMBEDMENT LENGTH ARE TO CONFORM TO THE LATEST CRSI HANDBOOK COMPLYING WITH ACI 318 CODE OF LATEST ISSUE, UNLESS OTHERWISE NOTED.

STRUCTURAL STEEL

1. GENERAL NOTES

   A. DESIGN, DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE FOLLOWING:
   - AISC 303 – CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
   - ANSI/AISC 360 – SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
   - ANSI/AISC 341 – SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS
   - RCSC – SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS
   - ANSI/AWS D1.1 – STRUCTURAL WELDING CODE - STEEL

   B. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASING AND FABRICATING MATERIAL. SEE SPECIFICATIONS FOR REQUIREMENTS.

   C. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS, INCLUDING AS-BUILT ANCHOR ROD AND EMBEDMENT PLACEMENT, PRIOR TO COMMENCING STRUCTURAL STEEL FABRICATION AND ERECTION. NOTIFY A/E OF DISCREPANCIES AND ANY FABRICATION OR ERECTION ISSUES THAT REQUIRE MODIFICATION OF THE STRUCTURAL STEEL BEFORE FIELD CORRECTIONS OR OTHER MODIFICATIONS ARE MADE. SUBMIT REVISED SHOP DRAWINGS OR PROPOSED REMMEDIATION DETAIL DRAWINGS FOR APPROVAL PRIOR TO COMMENCING THE WORK. GAS CUTTING SHALL NOT BE ALLOWED WITHOUT WRITTEN APPROVAL BY THE A/E.

   D. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ERECTION MEANS AND METHODS INCLUDING TEMPORARY SHORING OR BRACING OF THE NEW AND ADJACENT EXISTING CONSTRUCTION. CARE SHALL BE TAKEN DURING THE ERECTION OF STRUCTURAL STEEL TO AVOID DAMAGE. NOTIFY A/E IN WRITING AND PROVIDE REPAIR DETAILS FOR APPROVAL IF EXISTING STRUCTURE IS DAMAGED BY THE WORK, OR MUST BE CUT OR MODIFIED TO ALLOW INSTALL OF NEW STRUCTURAL STEEL.

   E. SEE "CONTRACTOR`S RESPONSIBILITIES" AND "SPECIAL INSPECTIONS" FOR ADDITIONAL REQUIREMENTS RELATED TO STRUCTURAL STEEL.

2. MATERIALS

   A. SEE THE SPECIFICATIONS FOR MATERIAL REQUIREMENTS.

3. CONNECTIONS

   A. CONNECTION CALCULATIONS AND DETAILS SHALL BE DEVELOPED TO MEET THE FOLLOWING REQUIREMENTS;
   - CONNECTIONS SHALL BE DESIGNED FOR THE ALLOWABLE STRENGTH DESIGN REACTIONS INDICATED ON THE PLANS. WHERE REACTIONS ARE NOT SHOWN, THE CONTRACTOR SHALL COORDINATE WITH THE A/E FOR DESIGN LOAD REQUIREMENTS.
   - TO THE EXTENT PRACTICAL, CONNECTIONS SHALL BE SHOP WELDED AND FIELD BOLTED UNLESS OTHERWISE NOTED.
   - CONNECTIONS SHALL BE DETAILED WITH MINIMUM 3/4 " DIAMETER ASTM A325 SNUG-TIGHT BOLTS UNLESS OTHERWISE NOTED, OR LARGER DIAMETER ASTM A325 OR ASTM A 490 BOLTS PROVIDE A MORE ECONOMICAL CONNECTION.
   - THE STRUCTURAL DRAWING DETAILS AND SECTIONS PRESENT THE MINIMUM DESIGN INTENT. CONNECTIONS SHALL BE DETAILED CONSIDERING THE ANGLES, PLATES, WELD SIZES AND THE QUANTITY OF BOLTS SHOWN TO BE THE MINIMUM ACCEPTABLE.
   - CONNECTION TO WIDE FLANGE COLUMNS SHALL BE DOUBLE CLIP ANGLES UNLESS OTHERWISE NOTED. CONNECTION TO HSS COLUMNS SHALL BE MINIMUM 3/8 " THRU PLATE WITH MINIMUM 5/16 DOUBLE FILLET WELDS EACH SIDE OF THE COLUMN. BEAM TO GIRDER CONNECTIONS SHALL HAVE A MINIMUM 3/8" THICK, FULL-HEIGHT, WEB STIFFENER / SHEAR TAB UNLESS OTHERWISE NOTED. PROVIDE AT LEAST 3 BOLTS FOR 8" AND LARGER MEMBERS UNLESS OTHERWISE NOTED.
   - FINAL LOCATION OF ANGLES ATTACHED TO BEAMS WHICH SUPPORT EXTERIOR OR INTERIOR WALLS SHALL BE COORDINATED WITH THE DIMENSIONAL REQUIREMENTS OF THE ATTACHED ASSEMBLIES ACCOUNTING FOR ROLLING AND ERECTION TOLERANCES OF THE STRUCTURAL STEEL MEMBERS. PROVIDE FIELD CONNECTIONS WHERE NECESSARY TO MAINTAIN PROPER ALIGNMENT.
   - PROVIDE HOLES IN THE STRUCTURAL STEEL AS REQUIRED TO ATTACH WOOD BLOCKING AND NAILERS AS SHOWN IN THE STRUCTURAL, ARCHITECTURAL, OR RELATED TRADE SHOP DRAWINGS.

   B. ALL WELDING SHALL BE COMPLED BY QUALIFIED WELDERS CERTIFIED IN ACCORDANCE WITH ANSI/AWS D1.1.

   C. FABRICATE AND ERECT STRUCTURAL STEEL WITH MILL CAMBER UP UNLESS NOTED OTHERWISE.

4. COATINGS

   A. SEE THE SPECIFICATIONS FOR GALVANIZING, PRIMER, AND PAINT REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL FIREPROOFING, AND STEEL TO BE FIREPROOFED SHALL NOT BE PRIMED OR PAINTED.

   B. STRUCTURAL STEEL EMBEDDED IN CONCRETE BELOW GRADE SHALL BE COATED WITH 2 LAYERS OF BITUMINOUS SEALER.

   C. STRUCTURAL STEEL EXPOSED TO WEATHER, DEICING CHEMICALS, OR SWIMMING POOL VAPORS OR SIMILAR CORROSIVE ENVIRONMENT SHALL BE HOT DIP GALVANIZED. ADDITIONAL MEMBERS AS SHOWN IN THE DOCUMENTS AS (GALV) OR (HDG) SHALL BE HOT DIP GALVANIZED. FASTENERS FOR GALVANIZED STEEL SHALL BE HOT DIP GALVANIZED. PROVIDE MINIMUM TWO COATS OF ZINC RICH PAINT AS TOUCH-UP FOR ANY FIELD WELDED AREAS OR DAMAGED GALVANIZING.

GENERAL CONSTRUCTION NOTES

1 DESIGN CONSTRUCTION AND SAFETY SHALL CONFORM TO ALL LOCAL, STATE AND OWNER SPECIFIC CODES, INCLUDING (BUT NOT LIMITED TO) THE "INTERNATIONAL BUILDING CODE 2015 (IBC)", THE NFPA 101 LIFE SAFETY CODE, LATEST REVISION, ANSI A117.1 - LATEST REVISION, OSHA, AND ANY OTHER CODES GOVERNED BY THE JURISDICTION IN WHICH THIS PROJECT IS BEING CONSTRUCTED

2 THIS CONTRACT REQUIRES COMPLETE, FINISHED WORKABLE PROJECT OF THE AREAS INDICATED BY THE CONTRACT DOCUMENTS, AND SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO COMPLETE, REGARDLESS OF WHETHER OR NOT ALL WORK OR EACH ITEM IS SPECIFICALLY INDICATED ON ANY OTHER PORTION OF THE DRAWINGS AND/OR NOTES.

3 WHERE MATERIALS REFERENCED ON DRAWINGS, OR NECESSARY TO COMPLETE THE WORK OF THIS CONTRACT ARE NOT SPECIFIED HEREIN, PROVIDE BEST QUALITY MATERIAL. WHERE MATERIALS ARE INTENDED TO MATCH EXISTING, PROVIDE CLOSEST POSSIBLE MATCH, SUBJECT TO OWNER'S APPROVAL. ALL ITEMS AND WORK ON DRAWINGS ARE NEW, UNLESS INDICATED EXISTING. ALL WORK WHICH HAS BEEN DAMAGED SHALL BE REPAIRED TO A "NEW CONDITION," OR WHERE THE STRUCTURAL INTEGRITY HAS BEEN AFFECTED, ITEMS SHALL BE REPLACED AT NO COST TO THE OWNER.

4 CONTRACTOR IS RESPONSIBLE TO VERIFY ALL SITE, FIELD AND BUILDING CONDITIONS PRIOR TO SUBMITTING BIDS AND COMMENCING WORK. IF THERE ARE ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS, NOTIFY THE CONSTRUCTION MANAGER AND ARCHITECT/ENGINEER AND REQUEST CLARIFICATION. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A BUILDING PERMIT FROM TOWN OF CLAY PLANNING DEPARTMENT PRIOR TO THE COMMENCEMENT OF ANY WORK.

5 DRAWINGS MAY NOT INDICATE ALL DEMOLITION/REMOVALS. CONTRACTOR SHALL REFER TO DRAWINGS, SPECIFICATIONS AND VERIFY FIELD CONDITIONS TO DETERMINE FULL SCOPE AND PARTICULARS OF REMOVALS AS REQUIRED FOR AND COORDINATED WITH THE NEW WORK PRIOR TO BIDDING WORK. VERIFY AND CONFIRM WITH OWNER WHICH ITEMS ARE TO BE SAVED FOR OWNER'S USE OR REINSTALLATION BY CONTRACTOR.

6 WHERE CONSTRUCTION OR ITEMS HAVE BEEN INFILLED, REMOVED AND/OR DISTURBED FOR INSTALLATION OF NEW WORK, CAUSING THE EXPOSURE OF UNFINISHED AND/OR DAMAGED SURFACES, RESULTING SURFACES AND INFILLED SURFACES SHALL BE RECONSTRUCTED WITH MATERIALS TO MATCH FINISHED AREAS. ALL ABANDONED OPENINGS (I.E., DUCT/PIPE REMOVALS, ETC.) AT WALLS, ROOF OR FLOOR TO BE INFILLED SOLID.

7 WHERE CONSTRUCTION RESULTS IN DEPRESSIONS AND/OR UNEVEN FLOOR CONDITIONS, PATCH, LEVEL AND FEATHER AREAS AS REQUIRED TO PROVIDE UNIFORMITY OF NEW FLOORING.

8 WORK IS REQUIRED IN VARIOUS PORTIONS OF THE FACILITY TO EXECUTE WORK OF OTHER TRADES (I.E. ELECTRICAL, MECHANICAL). ALTHOUGH NOT NECESSARILY SHOWN ON DRAWINGS, WORK IS REQUIRED IN THESE AREAS CONSISTING OF PLACEMENT OF CEILINGS, WALLS, FINISHES, PAVEMENT AND OTHER CONSTRUCTION AS NECESSARY TO PERFORM WORK AND RESTORE THESE SPACES OR AREAS TO ORIGINAL CONDITIONS.

9 CONTRACTOR SHALL OBTAIN FROM OWNER ALL REQUIREMENTS FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT INCLUDING ROUGHING DIAGRAMS, INSTALLATION INSTRUCTIONS, ELECTRICAL SCHEMATICS, TEMPLATES, LAYOUTS AND DIMENSIONS AND ALL OTHER INFORMATION NECESSARY FOR A PROPER, WELL COORDINATED INSTALLATION. PRIOR TO ROUGH-IN OF SERVICES, CONFER WITH OWNER EXACT LOCATION OF ALL ITEMS.

10 CONTRACTOR SHALL COORDINATE THE WORK WITH EACH TRADE SO THAT THE WORK AND SCHEDULE ARE NOT IMPEDED. SCHEDULE WORK PROGRESS THROUGHOUT THE ENTIRE PROJECT TO PREVENT CONFLICTS AND INTERFERENCES. OBTAIN ALL NECESSARY INFORMATION SUCH AS SIZES, LOCATIONS, TEMPLATES, LAYOUT, DIMENSIONS AND ALL OTHER INFORMATION NECESSARY FOR A PROPER AND WELL COORDINATED INSTALLATION. PRIOR TO INSTALLATION OF ITEMS, VERIFY AND CONFIRM WITH EACH TRADE EXACT LOCATION OF ALL ITEMS

11 ALL PENETRATIONS THROUGH FLOORS AND FULL HEIGHT WALLS TO BE FIRE STOPPED. ALL GAPS AND JOINTS AT RATED FLOORS, ROOFS AND WALL TO BE FIRE AND SMOKE STOPPED. GAPS AND JOINTS INCLUDE (BUT ARE NOT LIMITED TO) TOP OF WALL TO FLOOR OR ROOF DECK WALL TO BEAMS, AND CONTROL OR EXPANSION JOINTS. FIRE STOPPING INCLUDES BOTH FORM OR PACKING MATERIAL AND THE FILL, VOID OR CAVITY MATERIAL.

12 EXTERIOR PERIMETER OF ALL WINDOWS, DOOR FRAMES, LOUVERS OR OTHER ITEMS INSERTED IN AN EXTERIOR WALL SHALL BE SEALED WEATHER TIGHT WHETHER INDICATED ON DRAWINGS OR NOT.

13 WOOD USED FOR BLOCKING OR OTHER PURPOSES ON OR ABOVE THE ROOF DECK WITHIN 2'-0" OF GRADE AND OTHER LOCATIONS OUTSIDE THE BUILDING ENVELOPE WHERE EXPOSED TO THE WEATHER, SHALL BE PRESSURED TREATED TYPE. WOOD USED FOR BLOCKING OR OTHER PURPOSES SHALL BE FIRE RETARDANT TYPE.

14 FINISHED DOOR OPENINGS SHALL BE NOMINAL 6" FROM FINISHED CORNER OF ROOM AT HINGE SIDE, EXCEPT WHERE DIMENSIONED OTHERWISE, ON THE 'PULL' SIDE OF A DOOR OPENING , THE STRIKE SIDE SHALL BE NOMINAL 18" FROM A PERPENDICULAR WALL ON THE 'PUSH' SIDE OF A DOOR OPENING EQUIPPED WITH BOTH A CLOSER AND LATCH, THE STRIKE SIDE SHALL BE NOMINAL 12" FROM A PERPENDICULAR WALL.

15 SUSPENDED GRID CEILINGS SHALL BE ARRANGED SO THAT A GRID IS SPACED EQUALLY FROM EACH MOST REMOTE WALL IN EACH DIRECTION, WITH NO TILE LESS THAN 6" UNLESS OTHERWISE INDICATED. CEILING MOUNTED ITEMS TO BE CENTERLINE OF CEILING TILES, UNLESS OTHERWISE NOTED.

16 INTERIOR AND EXTERIOR CONCRETE SLABS SHALL BE SEPARATED FROM ANY VERTICAL SURFACE WITH AN ISOLATION JOINT. ALL SLAB ON-GRADE (CONTROL, EXPANSION, CONSTRUCTION (COLD), ETC.) JOINTS TO RECEIVE SEALANT. ALL EXTERIOR SLABS TO SLOPE TO DRAIN AWAY FROM BUILDING AT 1/8" PER 1'-0" UON.

17 PROVIDE BUILDING EXPANSION JOINT AND CONTROL JOINTS AT INTERIOR AND EXTERIOR MASONRY WALLS PER THE BRICK INSTITUTE OF AMERICA AND THE NATIONAL CONCRETE MASONRY ASSOCIATION SPECIFICATIONS AND RECOMMENDATIONS, AND WHERE BUILDING ADDITIONS MEET EXISTING BUILDING. AT RATED WALLS, EXPANSION JOINT OR CONTROL JOINT TO EQUAL WALL RATING.

18 ALL DRAWINGS INDICATED AS GENERAL APPLY TO ENTIRE PROJECT, INCLUSIVE OF ALL BUILDINGS.

a+e architects, p.c.
7301 Barberry Lane
Manlius, New York 13104
315·415·9988

NKB
N.K. BHANDARI
ARCHITECTURE & ENGINEERING, P.C.
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90% SUBMITTAL

REVISION DATES

DRAWING TITLE
ABBREVIATIONS AND NOTES

DATE
05-12-2020

PROJECT NUMBER
17971

SHEET NUMBER
S001

SPECIAL INSPECTIONS -

A . CONTRACTORS RESPONSIBILITY

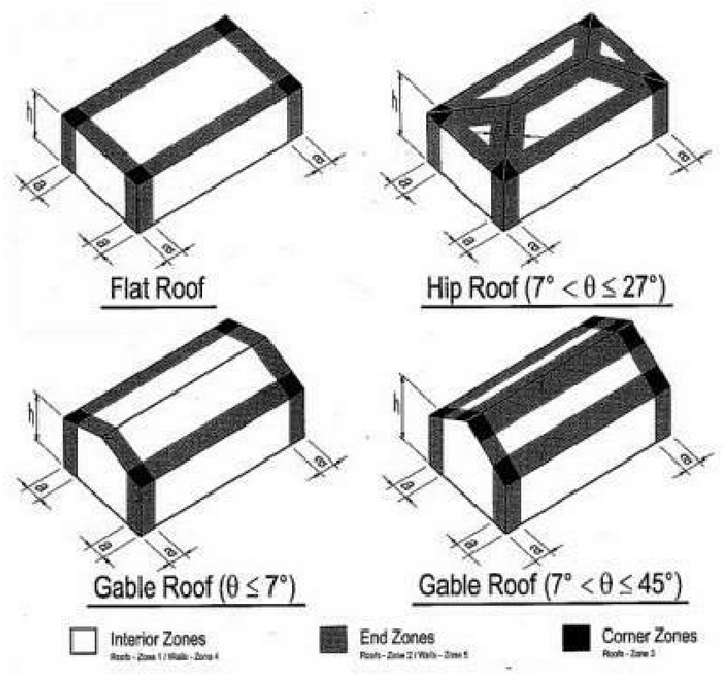
1. TO FACILITATE SPECIAL INSPECTION AND TESTING SERVICES, THE CONTRACTOR SHALL:
2. FURNISH TO THE SPECIAL INSPECTOR SUCH SAMPLES OF MATERIALS AS MAY BE NECESSARY FOR TESTING PURPOSES.
3. FURNISH SUCH CASUAL LABOR, EQUIPMENT AND FACILITIES AS IS NECESSARY TO OBTAIN AND HANDLE SAMPLES AT THE PROJECT.
4. ADVISE THE SPECIAL INSPECTOR SUFFICIENTLY IN ADVANCE OF OPERATIONS TO ALLOW FOR COMPLETION OF TESTS AND FOR THE ASSIGNMENT OF PERSONNEL.
5. PROVIDE AND MAINTAIN, FOR THE SOLE USE OF THE SPECIAL INSPECTOR, ADEQUATE FACILITIES FOR SAFE STORAGE AND PROPER CURING OF CONCRETE TEST CYLINDERS ON THE PROJECT SITE FOR THE FIRST 24 HOURS AS REQUIRED BY ASTM C31-69.
6. MAINTAIN RECORDS AT THE PROJECT SITE SHOWING THE DATE AND EXTENT OF EACH CONCRETE PLACEMENT.
7. PROVIDE SAFE ACCESS TO ITEMS TO BE INSPECTED AND/OR TESTED. THIS INCLUDES SHEETING AND LADDERS FOR DEEP EXCAVATION; SCAFFOLDING AND LADDERS FOR INSPECTION AND TESTING OF SUPERSTRUCTURE ITEMS.
8. IF ANY PORTION OF THE WORK SHOWS LOW TEST RESULTS, EVIDENCE OF DETRIMENTAL PLACING OR CURING CONDITIONS, THE OWNER MAY REQUIRE ADDITIONAL TESTING, COMPACTION, CORED SAMPLES OR RE-WELDING AT THE CONTRACTOR'S EXPENSE.
9. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

B. STEEL CONSTRUCTION INSPECTIONS

1. THE SPECIAL INSPECTOR SHALL PERFORM AN INSPECTION OF THE STEEL FRAME TO VERIFY COMPLIANCE
2. MATERIAL VERIFICATION REQUIRED AS FOLLOWS:
   a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.
   b. MANUFACTURER'S CERTIFIED MILL TEST REPORTS.
   c. WELD FILLER MATERIALS: MATERIAL VERIFICATION REQUIRED
3. PERIODIC INSPECTIONS DURING TASK ARE REQUIRED FOR:
   a. INSTALLATION OF HIGH-STRENGTH BOLTS
   b. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS
   c. BEARING-TYPE CONNECTIONS
4. WELDING INSPECTIONS REQUIRED AS FOLLOWS:
   a. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS: CONTINUOUS INSPECTIONS.
   b. MULTI-PASS FILLET WELDS: CONTINUOUS INSPECTIONS.
   c. SINGLE-PASS FILLET WELDS GREATER THAN 5/16 INCH: CONTINUOUS INSPECTIONS.
   d. SINGLE-PASS FILLET WELDS LESS THAN 5/16 INCH: PERIODIC INSPECTIONS.
   e. FLOOR AND DECK WELDS: PERIODIC INSPECTIONS.

C. CONCRETE CONSTRUCTION INSPECTIONS

1. PERIODIC INSPECTIONS DURING TASK ARE REQUIRED FOR:
   a. INSPECTION OF REINFORCING STEEL
   b. VERIFYING USE OF REQUIRED DESIGN MIX
   c. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES
2. CONTINUOUS INSPECTIONS DURING TASK ARE REQUIRED FOR:
   a. SAMPLING FRESH CONCRETE AND PERFORMING SLUMP, AIR CONTENT AND DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TEST.
   b. CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.



STRUCTURAL DESIGN CRITERIA

CODES

NYS BUILDING CODE

INTERNATIONAL BUILDING CODE

ASCE 7

GEOTECHNICAL PARAMTERS

NET ALLOWABLE LOAD BEARING:	4000 PSF
DEPTH FOR FROST PROTECTION:	42 INCH
PROJECT SITE ELEVATION:	COORD W/ CIVIL DWGS

RISK CATEGORY

ALL BUILDINGS AND OTHER STRUCTURES EXCEPT THOSE LISTED IN RISK CATEGORY I, III, IV	II

TERRAIN CATEGORY

URBAN AND SUBURBAN AREAS, WOODED AREAS, OR OTHER TERRAIN WITH NUMEROUS CLOSELY SPACED OBSTRUCTIONS (ASCE 7-10 para 26.7)	SURFACE ROUGHNESS B

LOADS

LIVE:

PRIVATE ROOMS & CORRIDORS SERVING THEM	40 PSF
PUBLIC ROOMS & CORRIDORS SERVING THEM	100 PSF
STAIRS & EXITWAYS	100 PSF
ROOF	20 PSF

SNOW:

EXPOSURE OF ROOF	FULLY EXPOSED
EXPOSURE FACTOR, C_e	1.0
IMPORTANCE FACTOR, I_s	1.0
THERMAL FACTOR, C_t(HEATED)	1.0
THERMAL FACTOR, C_t(UNHEATED)	1.0
GROUND SNOW LOAD, P_g	30 PSF
SNOW LOAD ON FLAT ROOFS, P_f(HEATED)	18.9 PSF
SNOW LOAD ON FLAT ROOFS, P_f(UNHEATED)	25.2 PSF
SLOPED ROOF, DRIFTING & SLIDING	PER ASCE 7

SEISMIC:

IMPORTANCE FACTOR, I_e	1.0

SITE SPECIFIC PARAMETERS:

SITE CLASS	D
S_S	0.236g
S_1	0.069g
S_{MS}	0.378g
S_{M1}	0.166g
S_{DS}	0.252g
S_{D1}	0.110g
SEISMIC DESIGN CATEGORY:	B
ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE
SEISMIC FORCE-RESISTING SYSTEM & COEFFICIENTS	LIGHT - FRAME (COLD - FORMED STEEL) WALL SYSTEMS USING FLAT STRAP BRACING
RESPONSE MODIFICATION COEFFICIENT, R	4.0
OVERSTRENGTH FACTOR, Ω_o	2.0
DEFLECTION AMPLIFICATION FACTOR, C_d	3.5
SEISMIC RESPONSE COEFFICIENT, C_s	0.063
SEISMIC BASE SHEAR, V	247K

WIND:

EXPOSURE CATEGORY	C
BASIC WIND SPEED (V)	120 MPH
TOPOGRAPHIC FACTOR, K_{zt}	1.0
DIRECTIONALITY FACTOR, K_d	0.85
GUST EFFECT FACTOR, G	0.85
INTERNAL PRESSURE COEFFICIENT, GC_{pi}	±0.18

COMPONENTS AND CLADDING

DIMENSION, a	6.0 FT
ROOFS - INTERIOR ZONE 1	-51 PSF
ROOFS - ENDS ZONE 2	-62 PSF
ROOFS - CORNER ZONE 3	-107 PSF
WALLS - INTERIOR ZONE 4	-44 PSF
WALLS - ENDS ZONE 5	-55 PSF

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90% SUBMITTAL

REVISION DATES

DRAWING TITLE
STRUCTURAL DESIGN BASIS AND SPECIAL INSPECTIONS

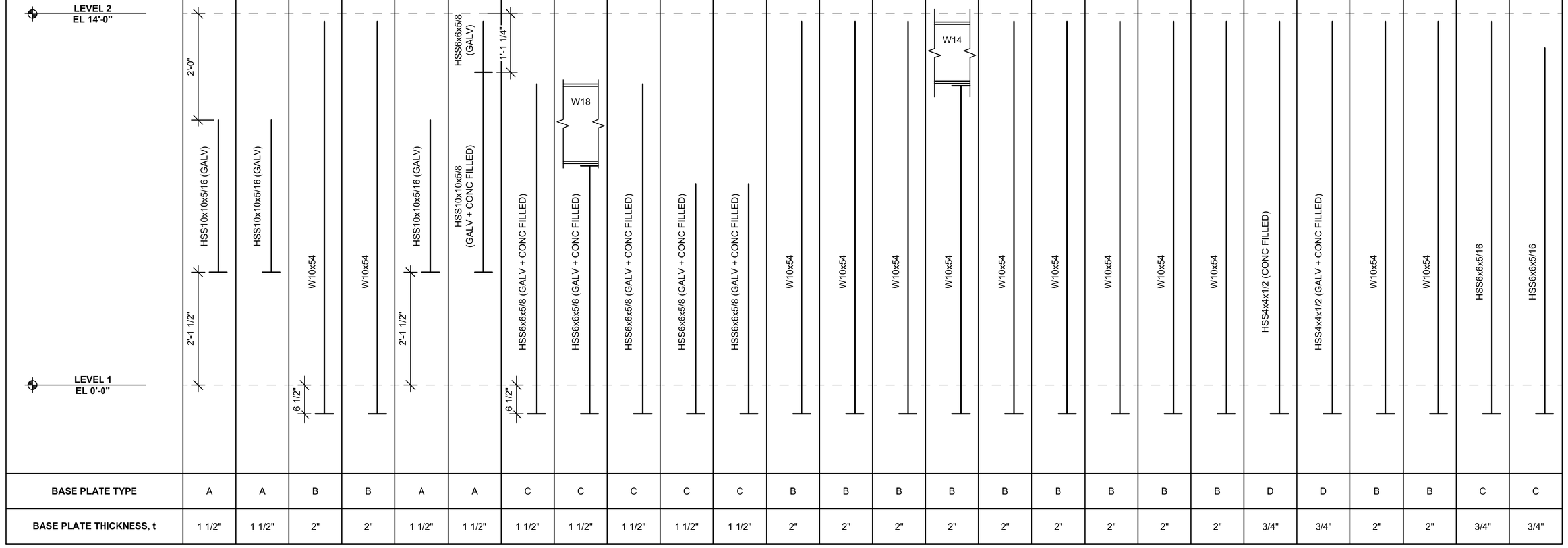
DATE
05-12-2020

PROJECT NUMBER
17971

SHEET NUMBER
S002

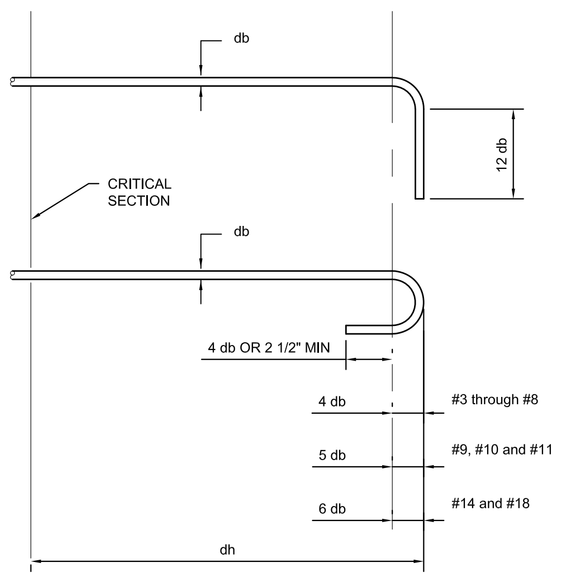
STRUCTURAL STEEL COLUMN SCHEDULE

	A		A.9		B		C					C.4		D		E			F		F.3		G		H	
	6.3	8	10	12	6.3	8	2	3	4	5	6	6	8	10	12	4	6	8	6	8	10	11	6	8	6	8
BASE PLATE TYPE	A	A	B	B	A	A	C	C	C	C	C	B	B	B	B	B	B	B	B	B	D	D	B	B	C	C
BASE PLATE THICKNESS, t	1 1/2"	1 1/2"	2"	2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	3/4"	3/4"	2"	2"	3/4"	3/4"



MINIMUM REINFORCING LAP SPLICE & EMBEDMENT LENGTHS (f'c = 3000 PSI)

	CLASS B LAP LENGTH (IN)		EMBEDMENT LENGTH (IN)		HOOK DEVELOPMENT LENGTH, dh (IN)
BAR SIZE	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	ALL BARS
#3	17	16	13	12	6
#4	23	18	17	14	8
#5	28	22	22	17	10
#6	34	26	26	20	12
#7	55	43	43	33	14
#8	70	54	54	41	16
#9	86	66	66	51	18



STANDARD HOOK GEOMETRY

NOTES:

1) CLEAR COVER = 1 1/2" MINIMUM.
2) CENTER TO CENTER SPACING = 4" MINIMUM FOR #3 THRU #8 AND 5" FOR #9.
3) TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
4) MULTIPLY THE REQUIRED LENGTHS BY (1.3/1.5) FOR EPOXY COATED (TOP/OTHER) BARS.
5) FOR OTHER CONDITIONS, COMPLY WITH ACI 318 REQUIREMENTS.

SPREAD FOOTING SCHEDULE

ALLOWABLE SOIL BEARING PRESSURE: 4000 PSF

FOOTING MARK	WIDTH	LENGTH	THICKNESS	BOTTOM REINFORCING		REMARKS
				LONGITUDINAL	PERPENDICULAR	
FTG: 4.0	4'-0"	4'-0"	12"	6 - #4	6 - #4	
FTG: 4.5	4'-6"	4'-6"	13"	7 - #4	7 - #4	
FTG: 5.0	5'-0"	5'-0"	14"	5 - #5	5 - #5	
FTG: 5.5	5'-6"	5'-6"	16"	7 - #5	7 - #5	
FTG: 6.0	6'-0"	6'-0"	17"	8 - #5	8 - #5	
FTG: 6.5	6'-6"	6'-6"	18"	9 - #5	9 - #5	
FTG: 7.0	7'-0"	7'-0"	20"	10 - #5	10 - #5	
FTG: ELEV	9'-6"	20'-6"	2'-6"	SEE DETAILS	SEE DETAILS	COORD REQUIREMENTS W/ MFR

STRIP FOOTING SCHEDULE

ALLOWABLE SOIL BEARING PRESSURE: 4000 PSF

FOOTING MARK	WIDTH	THICKNESS	BOTTOM REINFORCING		REMARKS
			LONGITUDINAL	PERPENDICULAR	
SF: 1-4	1'-4"	12"	2 - #4	N/A	
SF: 2-0	2'-0"	12"	3 - #5	#4 @ 48" TIE BAR	
SF: 2-8	2'-8"	12"	4 - #5	#4 @ 48" TIE BAR	
SF: 2-10	2'-10"	17"	4 - #5	#4 @ 48" TIE BAR	

SPREAD & STRIP FOOTING SCHEDULE NOTES:

1. WHERE CONCRETE IS PLACED AGAINST SOIL, REINFORCING SHALL HAVE 3" CLEAR COVER AND SHALL BE SUPPORTED ON CHAIRS OR CONCRETE BLOCKS. AT ALL OTHER LOCATIONS PROVIDE 2" CLEAR COVER.
2. BOTTOM REINFORCEMENT BARS ORIENTED PERPENDICULAR TO THE FOOTING SHALL BE PLACED FIRST AND TIED TO THE LONGITUDINAL BOTTOM REINFORCEMENT PLACED ABOVE. TOP REINFORCING BARS ORIENTED PARALLEL (LONGITUDINAL) TO THE FOOTING SHALL BE SUPPORTED ON REINFORCEMENT STANDS AND TIED TO THE TOP PERPENDICULAR REINFORCEMENT PLACED ABOVE.
3. REINFORCING ORIENTED PARALLEL (LONGITUDINAL) TO THE FOOTING SHALL BE LAP SPLICED AS REQUIRED.
4. BENT REINFORCING SHALL BE PROVIDED PER THE TYPICAL FOUNDATION DETAILS AT ALL CORNERS AND "T" INTERSECTIONS.
5. REINFORCING DOWELS MATCHING THE SIZE OF REINFORCEMENT IN THE WALL OR PIER ABOVE SHALL BE PROVIDED WITH A STANDARD 90 DEGREE HOOK AND PLACED AT ALL LOCATIONS OF VERTICAL WALL REINFORCEMENT. TIE THE LEG OF THE BENT DOWEL TO THE BOTTOM FOOTING REINFORCEMENT AND LAP THE DOWELS TO THE VERTICAL WALL REINFORCING BARS.
6. PROVIDE REINFORCING AT FOOTING STEPS PER THE TYPICAL FOUNDATION DETAILS.

NOTES:

1. SEE MASONRY DETAIL SHEETS FOR MASONRY SCHEDULES AND REQUIREMENTS.
2. SEE COLD-FORMED STEEL DETAIL SHEETS FOR POST AND HEADER SCHEDULE AND REQUIREMENTS.

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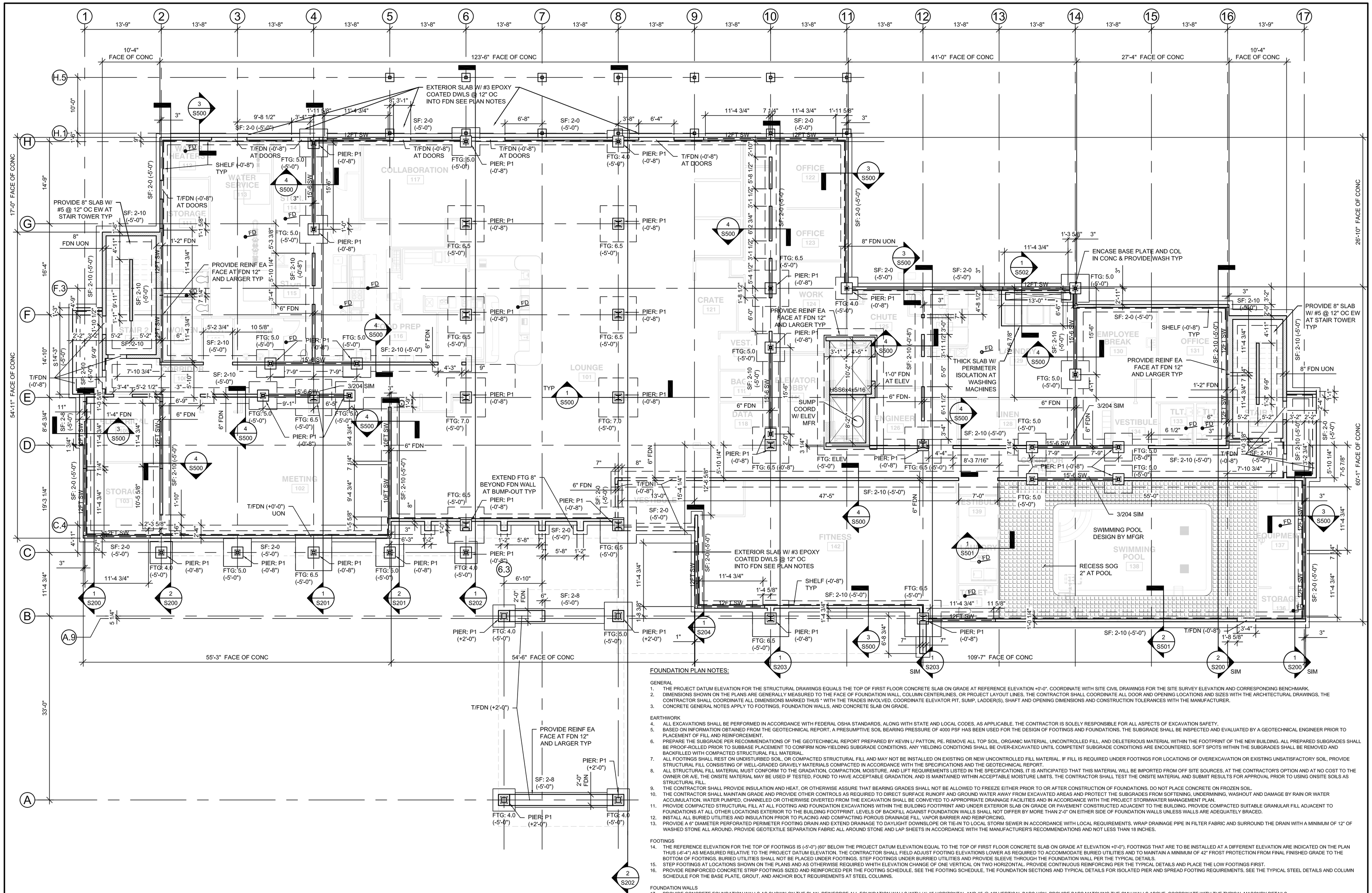

1 S100 FOUNDATION PLAN
1/8" = 1'-0"

FOUNDATION PLAN NOTES:

GENERAL
1. THE PROJECT DATUM ELEVATION FOR THE STRUCTURAL DRAWINGS EQUALS THE TOP OF FIRST FLOOR CONCRETE SLAB ON GRADE AT REFERENCE ELEVATION +0'-0", COORDINATE WITH SITE CIVIL DRAWINGS FOR THE SITE SURVEY ELEVATION AND CORRESPONDING BENCHMARK.
2. DIMENSIONS SHOWN ON THE PLANS ARE GENERALLY MEASURED TO THE FACE OF FOUNDATION WALL, COLUMN CENTERLINES, OR PROJECT LAYOUT LINES. THE CONTRACTOR SHALL COORDINATE ALL DOOR AND OPENING LOCATIONS AND SIZES WITH THE ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS MARKED THUS * WITH THE TRADES INVOLVED. COORDINATE ELEVATOR PIT, SUMP, LADDER(S), SHAFT AND OPENING DIMENSIONS AND CONSTRUCTION TOLERANCES WITH THE MANUFACTURER.
3. CONCRETE GENERAL NOTES APPLY TO FOOTINGS, FOUNDATION WALLS, AND CONCRETE SLAB ON GRADE.

EARTHWORK
4. ALL EXCAVATIONS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL OSHA STANDARDS, ALONG WITH STATE AND LOCAL CODES, AS APPLICABLE, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL ASPECTS OF EXCAVATION SAFETY.
5. BASED ON INFORMATION OBTAINED FROM THE GEOTECHNICAL REPORT, A PRESUMPTIVE SOIL BEARING PRESSURE OF 4000 PSF HAS BEEN USED FOR THE DESIGN OF FOOTINGS AND FOUNDATIONS. THE SUBGRADE SHALL BE INSPECTED AND EVALUATED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FILL AND REINFORCEMENT.
6. PREPARE THE SUBGRADE PER RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED BY KEVIN L/ PATTON, PE. REMOVE ALL TOP SOIL, ORGANIC MATERIAL, UNCONTROLLED FILL, AND DELETERIOUS MATERIAL WITHIN THE FOOTPRINT OF THE NEW BUILDING. ALL PREPARED SUBGRADES SHALL BE PROOF-ROLLED PRIOR TO SUBBASE PLACEMENT TO CONFIRM NON-YIELDING SUBGRADE CONDITIONS, ANY YIELDING CONDITIONS SHALL BE OVER-EXCAVATED UNTIL COMPETENT SUBGRADE CONDITIONS ARE ENCOUNTERED, SOFT SPOTS WITHIN THE SUBGRADES SHALL BE REMOVED AND BACKFILLED WITH COMPACTED STRUCTURAL FILL MATERIAL.
7. ALL FOOTINGS SHALL REST ON UNDISTURBED SOIL, OR COMPACTED STRUCTURAL FILL AND MAY NOT BE INSTALLED ON EXISTING OR NEW UNCONTROLLED FILL MATERIAL. IF FILL IS REQUIRED UNDER FOOTINGS FOR LOCATIONS OF OVEREXCAVATION OR EXISTING UNSATISFACTORY SOIL, PROVIDE STRUCTURAL FILL CONSISTING OF WELL-GRADED GRAVELY MATERIALS COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE GEOTECHNICAL REPORT.
8. ALL STRUCTURAL FILL MATERIAL MUST CONFORM TO THE GRADATION, COMPACTION, MOISTURE, AND LIFT REQUIREMENTS LISTED IN THE SPECIFICATIONS. IT IS ANTICIPATED THAT THIS MATERIAL WILL BE IMPORTED FROM OFF SITE SOURCES, AT THE CONTRACTOR'S OPTION AND AT NO COST TO THE OWNER OR A/E, THE ONSITE MATERIAL MAY BE USED IF TESTED, FOUND TO HAVE ACCEPTABLE GRADATION, AND IS MAINTAINED WITHIN ACCEPTABLE MOISTURE LIMITS, THE CONTRACTOR SHALL TEST THE ONSITE MATERIAL AND SUBMIT RESULTS FOR APPROVAL PRIOR TO USING ONSITE SOILS AS STRUCTURAL FILL.
9. THE CONTRACTOR SHALL PROVIDE INSULATION AND HEAT, OR OTHERWISE ASSURE THAT BEARING GRADES SHALL NOT BE ALLOWED TO FREEZE EITHER PRIOR TO OR AFTER CONSTRUCTION OF FOUNDATIONS. DO NOT PLACE CONCRETE ON FROZEN SOIL.
10. THE CONTRACTOR SHALL MAINTAIN GRADE AND PROVIDE OTHER CONTROLS AS REQUIRED TO DIRECT SURFACE RUNOFF AND GROUND WATER AWAY FROM EXCAVATED AREAS AND PROTECT THE SUBGRADES FROM SOFTENING, UNDERMINING, WASHOUT AND DAMAGE BY RAIN OR WATER ACCUMULATION. WATER PUMPED, CHANNELED OR OTHERWISE DIVERTED FROM THE EXCAVATION SHALL BE CONVEYED TO APPROPRIATE DRAINAGE FACILITIES AND IN ACCORDANCE WITH THE PROJECT STORMWATER MANAGEMENT PLAN.
11. PROVIDE COMPACTED STRUCTURAL FILL AT ALL FOOTING AND FOUNDATION EXCAVATIONS WITHIN THE BUILDING FOOTPRINT AND UNDER EXTERIOR SLAB ON GRADE OR PAVEMENT CONSTRUCTED ADJACENT TO THE BUILDING. PROVIDE COMPACTED SUITABLE GRANULAR FILL ADJACENT TO FOUNDATIONS AT ALL OTHER LOCATIONS EXTERIOR TO THE BUILDING FOOTPRINT. LEVELS OF BACKFILL AGAINST FOUNDATION WALLS SHALL NOT DIFFER BY MORE THAN 2'-0" ON EITHER SIDE OF FOUNDATION WALLS UNLESS WALLS ARE ADEQUATELY BRACED.
12. INSTALL ALL BURIED UTILITIES AND INSULATION PRIOR TO PLACING AND COMPACTING POROUS DRAINAGE FILL, VAPOR BARRIER AND REINFORCING.
13. PROVIDE A 6" DIAMETER PERFORATED PERIMETER FOOTING DRAIN AND EXTEND DRAINAGE TO DAYLIGHT DOWNSLOPE OR TIE-IN TO LOCAL STORM SEWER IN ACCORDANCE WITH LOCAL REQUIREMENTS. WRAP DRAINAGE PIPE IN FILTER FABRIC AND SURROUND THE DRAIN WITH A MINIMUM OF 12" OF WASHED STONE ALL AROUND. PROVIDE GEOTEXTILE SEPARATION FABRIC ALL AROUND STONE AND LAP SHEETS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND NOT LESS THAN 18 INCHES.

FOOTINGS
14. THE REFERENCE ELEVATION FOR THE TOP OF FOOTINGS IS (-5'-0") (60" BELOW THE PROJECT DATUM ELEVATION EQUAL TO THE TOP OF FIRST FLOOR CONCRETE SLAB ON GRADE AT ELEVATION +0'-0"). FOOTINGS THAT ARE TO BE INSTALLED AT A DIFFERENT ELEVATION ARE INDICATED ON THE PLAN THUS (-6'-4") AS MEASURED RELATIVE TO THE PROJECT DATUM ELEVATION. THE CONTRACTOR SHALL FIELD ADJUST FOOTING ELEVATIONS LOWER AS REQUIRED TO ACCOMMODATE BURIED UTILITIES AND TO MAINTAIN A MINIMUM OF 42" FROST PROTECTION FROM FINAL FINISHED GRADE TO THE BOTTOM OF FOOTINGS. BURIED UTILITIES SHALL NOT BE PLACED UNDER FOOTINGS. STEP FOOTINGS UNDER BURIED UTILITIES AND PROVIDE SLEEVE THROUGH THE FOUNDATION WALL PER THE TYPICAL DETAILS.
15. STEP FOOTINGS AT LOCATIONS SHOWN ON THE PLANS AND AS OTHERWISE REQUIRED WHITH ELEVATION CHANGE OF ONE VERTICAL ON TWO HORIZONTAL. PROVIDE CONTINUOUS REINFORCING PER THE TYPICAL DETAILS AND PLACE THE LOW FOOTINGS FIRST.
16. PROVIDE REINFORCED CONCRETE STRIP FOOTINGS SIZED AND REINFORCED PER THE FOOTING SCHEDULE, SEE THE FOOTING SCHEDULE, THE FOUNDATION SECTIONS AND TYPICAL DETAILS FOR ISOLATED PIER AND SPREAD FOOTING REQUIREMENTS, SEE THE TYPICAL STEEL DETAILS AND COLUMN SCHEDULE FOR THE BASE PLATE, GROUT, AND ANCHOR BOLT REQUIREMENTS AT STEEL COLUMNS.

FOUNDATION WALLS
17. PROVIDE CONCRETE FOUNDATION WALLS AS SHOWN ON THE PLAN. REINFORCE ALL FOUNDATION WALLS WITH (4) #5 HORIZONTAL AND #5 @ 16" VERTICAL BARS UON. PROVIDE BARS MATCHING THE CMU WALLS ABOVE. COORDINATE WITH THE TYPICAL MASONRY DETAILS.
18. PROVIDED POCKETS IN CONCRETE WALLS FOR BEAM AND COLUMN SUPPORTS. COORDINATE LOCATIONS, DIMENSIONS AND BEARING ELEVATIONS WITH STRUCTURAL PLANS AND THE APPROVED STRUCTURAL STEEL SHOP DRAWINGS.
19. THE TOP OF FOUNDATION VARIES AND SOME REGIONS MAY REQUIRE A SHELF. TYPICAL TOP OF FOUNDATION IS AT REFERENCE ELEVATION +0'-0". COORDINATE THE GEOMETRY WITH THE PLANS, SECTIONS, DETAILS AND THE ARCHITECTURAL DRAWINGS.
20. PROVIDE 1/2" DIAMETER STAINLESS STEEL OR HOT-DIP GALVANIZED ANCHOR BOLTS AT 48" ON CENTER AND WITHIN 12" OF THE ENDS AND CORNERS OF SUPORTED STUD WALLS. ANCHORS SHALL BE PROVIDED WITH A MINIMUM 7" EMBEDMENT INTO THE FOUNDATION AND 2" PROJECTION ABOVE UON. POWDER ACTUATED FASTENERS (PAF) SHALL NOT BE USED AT EXTERIOR WALLS OR INTERIOR BEARING AND SHEAR WALLS UON.
21. PROVIDE STAINLESS STEEL OR HOT-DIP GALVANIZED ANCHOR RODS AT HOLD-DOWN LOCATIONS WITH DIAMETER AND EMBEDMENT PER THE DETAILS AND NOTES AND IN ACCORDANCE WITH THE HOLD-DOWN MANUFACTURER'S RECOMMENDATIONS.
22. THE CONTRACTOR SHALL INSTALL SLEEVES PROVIDED BY HVAC, PLUMBING AND ELECTRICAL CONSTRUCTION CONTRACTORS FOR PENETRATIONS THROUGH THE FOUNDATION WALL AS REQUIRED. THE GENERAL CONTRACTOR SHALL COORDINATE SIZE, QUANTITY, LOCATION AND SEQUENCE OF PLACEMENT WITH THE TRADES INVOLVED. SEE THE SECTIONS AND TYPICAL DETAILS FOR REINFORCEMENT AT FOUNDATION WALL OPENINGS.
23. PROVIDE CONSTRUCTION JOINTS IN THE FOUNDATION WALL AT INTERVALS OF 30 FEET PER THE TYPICAL DETAILS. STAGGER THE LOCATION OF WALL JOINTS AT LEAST 4'-0" FROM FOOTING CONSTRUCTION JOINTS.

SLAB ON GRADE
24. THE TOP OF THE FLOOR SLAB IS AT THE PROJECT REFERENCE ELEVATION +0'-0" UNLESS OTHERWISE REQUIRED FOR SLAB RECESSES, OR OTHERWISE NOTED ON THE PLAN. SEE THE SECTIONS AND TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
25. THE CONCRETE SLAB ON GRADE FOR THE FIRST FLOOR IS 4" NORMAL WEIGHT CONCRETE ON 6" COMPACTED POROUS DRAINAGE FILL UON. REINFORCE THE CONCRETE SLAB WITH 6"x6" W2.9XW2.9 WELDED WIRE FABRIC INSTALLED ON CHAIRS OR CONCRETE BLOCKS. PROVIDE A CONTINUOUS #4 PERIMETER BAR (LAPPED AT SPLICES A BENT BARS AT CORNERS). PROVIDE 2-#4 BARS AT RE-ENTRANT CORNERS, AT SIDES OF DOORS, AT DISCONTINUOUS CONTROL JOINTS AND AT ADDITIONAL LOCATIONS AS SHOWN. SEE THE PLANS, SECTIONS AND DETAILS FOR ADDITIONAL SLAB ON GRADE REQUIREMENTS AND DETAILS FOR REINFORCEMENT AT CONSTRUCTION JOINTS.
26. SLAB CONSTRUCTION AND CRACK CONTROL JOINTS ARE TYPICALLY NOT SHOWN, THE CONTRACTOR SHALL SUBMIT A PLAN LAYOUT FOR PROPOSED LOCATIONS SPACED APPROXIMATELY 10'-0" ON CENTER MAXIMUM. THE ASPECT RATIO SHALL NOT EXCEED 1.5 TO 1.0 IN PLAN DIMENSION, EXPANSION JOINTS SHALL BE PROVIDED AT 100'-0" OC MAXIMUM. SEE THE TYPICAL DETAILS FOR JOINT REQUIREMENTS. PROVIDE A 1/4" SLAB ON GRADE ISOLATION JOINT WITH BITUMINOUS FILLER AT LOCATIONS ADJACENT TO CONCRETE OR MASONRY WALLS AND COLUMNS. SEE THE SECTIONS AND TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
27. COORDINATE THE FIRST FLOOR CONCRETE SLAB ON GRADE SURFACE FINISHES, EQUIPMENT HOUSEKEEPING PADS, RECESSES, CURING, SEALING, AND HARDENER REQUIREMENTS WITH THE ARCHITECT'S SCHEDULE OF FINISH MATERIALS, THE SPECIFICATIONS, AND THE TRADES INVOLVED. SAW CUT OR TOOL THE CONCRETE SLAB ON GRADE CONTROL JOINTS AS SOON AS THE SLAB SURFACE FINISH WILL ALLOW.
28. EXTERIOR CONCRETE SLABS ARE TO BE 5" THICK REINFORCED W/ #5 @ 12" OC EPOXY COATED REINFORCING. ALL DOWELS TO EXTERIOR SLABS SHALL BE EPOXY COATED. EXTERIOR SLABS SHALL BE PROVIDED WITH A NON-SLIP SURFACE AND A 1/4" PER 12" SLOPE AWAY FROM THE BUILDING UON. COORDINATE GEOMETRY, SLOPE, AND NON-SLIP FINISHES WITH THE SITE CIVIL AND LANDSCAPE DRAWINGS.

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DRAWING TITLE
FOUNDATION PLAN

DATE
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PROJECT NUMBER
17971

SHEET NUMBER
S100

PROVIDE SPRAY APPLIED 1-HOUR RATED FIRE PROTECTION ON ALL COLUMNS AND BEAMS AT THE SECOND FLOOR AND BELOW UNLESS OTHERWISE NOTED.

PROVIDE CMU INFILL AND DOOR LINTELS AFTER ELEVATOR INSTALL

FIRE PROTECTION NOT REQ'D AT ELEV SUPPORT

EXTEND 600S200-54 STUDS TO UNDERSIDE OF BEAM

EXTEND 600S200-54 STUDS TO UNDERSIDE OF SOFFIT TYP

SEE SECTIONS FOR HUNG CFS SOFFIT TYP

EXTEND WALL TO UNDERSIDE OF BM

HSS6x6x3/8 AT TOP OF WALL

EXTEND 600S200-54 STUDS TO UNDERSIDE OF SOFFIT TYP

SEE SECTIONS FOR HUNG CFS SOFFIT TYP

INTUMESCENT PAINT FIRE PROTECTION REQ'D THIS COL

FIRE PROTECTION NOT REQ'D AT PORTE-COCHERE EXCEPT AS NOTED

FIRST FLOOR WALL FRAMING PLAN NOTES:

1. THE PROJECT DATUM ELEVATION EQUALS THE TOP OF FINISHED FLOOR AT REFERENCE ELEVATION 0'-0".
2. THE REFERENCE ELEVATION FOR THE TOP OF CFS BEARING WALLS IS 12'-8 1/4" (12'-8" 1/4 ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED. PROVIDE NOTCH AS REQUIRED TO ACCOMMODATE STRUCTURAL STEEL BEAMS. HOLD CFS 2" AWAY COLUMNS TO PROVIDE CLEARANCE FOR SPRAY FIREPROOFING.
3. STRUCTURAL CFS WALLS ON THE FIRST FLOOR SHALL BE 600S200-97 @ 16" OC WITH BRIDGING AT MAXIMUM 48" OC SPACED VERTICALLY UNLESS OTHERWISE NOTED.
4. PROVIDE CFS POSTS PER THE SCHEDULE.
5. PROVIDE HEADERS, JAMB AND KING STUDS PER THE HEADER SCHEDULE.
6. PROVIDE SHEAR WALLS WITH HOLD-DOWNS PER SCHEDULE AND DETAILS. PROVIDE THREADED ROD AND SOLID BLOCK THRU FLOOR PER SCHEDULE AND DETAILS.
7. PROVIDE 8" REINFORCED CMU AT THE STAIRS AND ELEVATOR PER THE MASONRY DETAILS.
8. PROVIDE SPRAY APPLIED 1-HOUR RATED FIRE PROTECTION ON ALL COLUMNS AND BEAMS AT THE SECOND FLOOR AND BELOW UNLESS OTHERWISE NOTED.

1 S101 1ST FLOOR WALL FRAMNG PLAN
1/8" = 1'-0"

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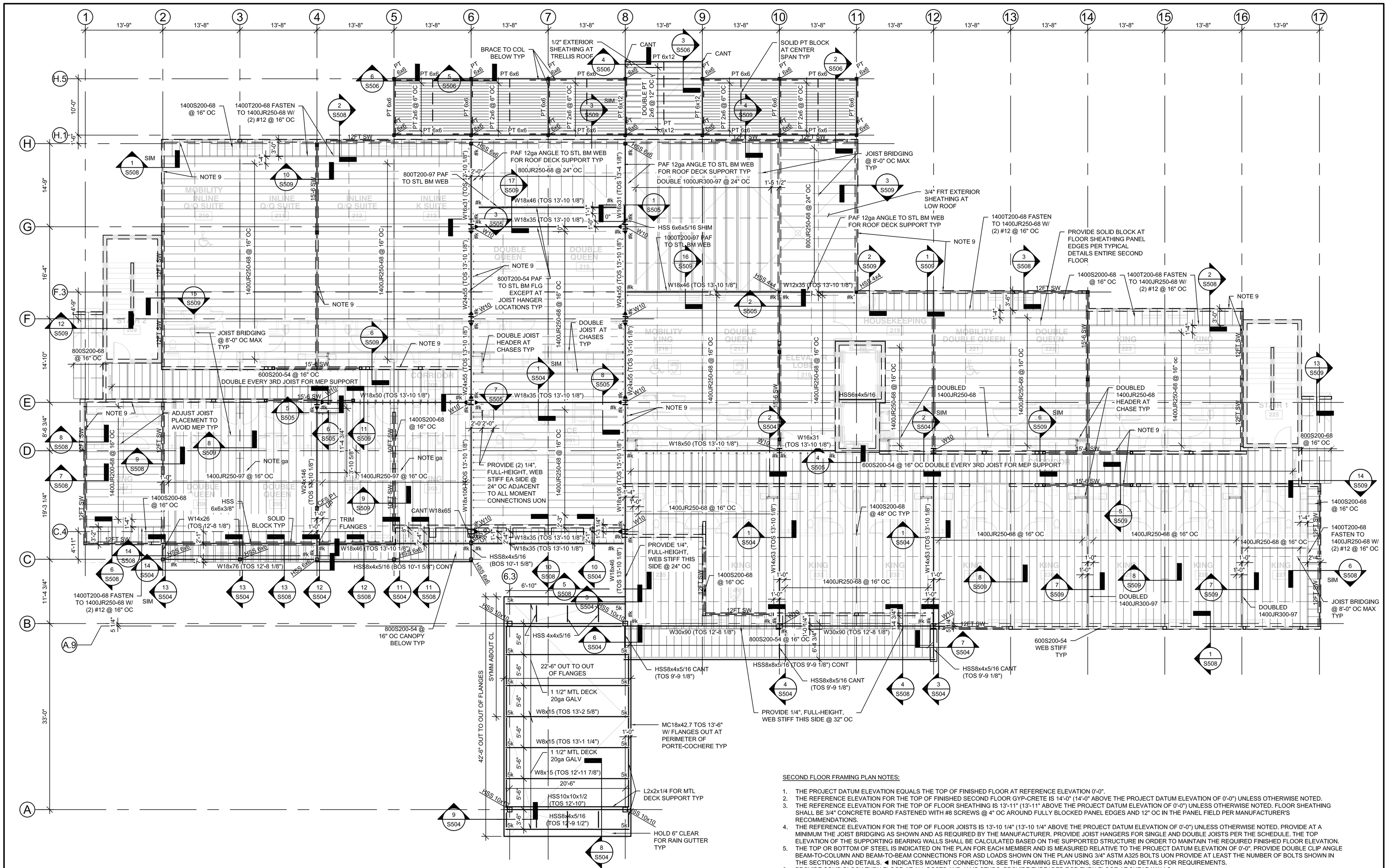

1 S102 2ND FLOOR FRAMNG PLAN
1/8" = 1'-0"

SECOND FLOOR FRAMING PLAN NOTES:

1. THE PROJECT DATUM ELEVATION EQUALS THE TOP OF FINISHED SECOND FLOOR AT REFERENCE ELEVATION 0'-0".
2. THE REFERENCE ELEVATION FOR THE TOP OF FINISHED SECOND FLOOR GYP-CRETE IS 14'-0" (14'-0" ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED.
3. THE REFERENCE ELEVATION FOR THE TOP OF FLOOR SHEATHING IS 13'-11" (13'-11" ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED. FLOOR SHEATHING SHALL BE 3/4" CONCRETE BOARD FASTENED WITH #8 SCREWS @ 4" OC AROUND FULLY BLOCKED PANEL EDGES AND 12" OC IN THE PANEL FIELD PER MANUFACTURER'S RECOMMENDATIONS.
4. THE REFERENCE ELEVATION FOR THE TOP OF FLOOR JOISTS IS 13'-10 1/4" (13'-10 1/4" ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED. PROVIDE AT A MINIMUM THE JOIST BRIDGING AS SHOWN AND AS REQUIRED BY THE MANUFACTURER. PROVIDE JOIST HANGERS FOR SINGLE AND DOUBLE JOISTS PER THE SCHEDULE. THE TOP ELEVATION OF THE SUPPORTING BEARING WALLS SHALL BE CALCULATED BASED ON THE SUPPORTED STRUCTURE IN ORDER TO MAINTAIN THE REQUIRED FINISHED FLOOR ELEVATION.
5. THE TOP OR BOTTOM OF STEEL IS INDICATED ON THE PLAN FOR EACH MEMBER AND IS MEASURED RELATIVE TO THE PROJECT DATUM ELEVATION OF 0'-0". PROVIDE DOUBLE CLIP ANGLE BEAM-TO-COLUMN AND BEAM-TO-BEAM CONNECTIONS FOR ASD LOADS SHOWN ON THE PLAN USING 3/4" ASTM A325 BOLTS UON PROVIDE AT LEAST THE NUMBER OF BOLTS SHOWN IN THE SECTIONS AND DETAILS. ◀ INDICATES MOMENT CONNECTION. SEE THE FRAMING ELEVATIONS, SECTIONS AND DETAILS FOR REQUIREMENTS.
6. PROVIDE SOLID BLOCK THRU FLOOR AT ALL POSTS AND JAMB STUDS, PROVIDE THREADED ROD THRU FLOOR AT SHEAR WALLS.
7. THE REFERENCE ELEVATION FOR THE TOP OF LOW ROOF SHEATHING IS 13'-5" (13'-5" ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED. ROOF SHEATHING SHALL BE 3/4" FRT EXTERIOR GRADE APA RATED SHEATHING FASTENED WITH SS #12 @ 6" OC AT PANEL ENDS AND 12" OC IN THE PANEL FIELD PER MANUFACTURER'S RECOMMENDATIONS.
8. THE REFERENCE ELEVATION FOR THE TOP OF TRELLIS ROOF SHEATHING IS 9'-7 1/2" (9'-7 1/2" ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED. ROOF SHEATHING SHALL BE 1/2" EXTERIOR GRADE APA RATED SHEATHING FASTENED WITH SS 12d @ 6" OC AT PANEL ENDS AND 12" OC IN THE PANEL FIELD PER MANUFACTURER'S RECOMMENDATIONS.
9. PROVIDE 600S200 STIFF/SQUASH BLOCK TYPICAL.

a+e architects, p.c.
7301 Barberry Lane
Manlius, New York 13104
315·415·9988

NKB
N.K. BHANDARI
ARCHITECTURE & ENGINEERING, P.C.
1005 W. Fayette St, Suite 500
Syracuse, NY 13204
Phone 315.428.1177
www.nkbpc.com

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Turner Road
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location #12121

for

RAINBOW ENTERPRISES

4758 Highway 28
Cooperstown, NY

90% SUBMITTAL

REVISION DATES

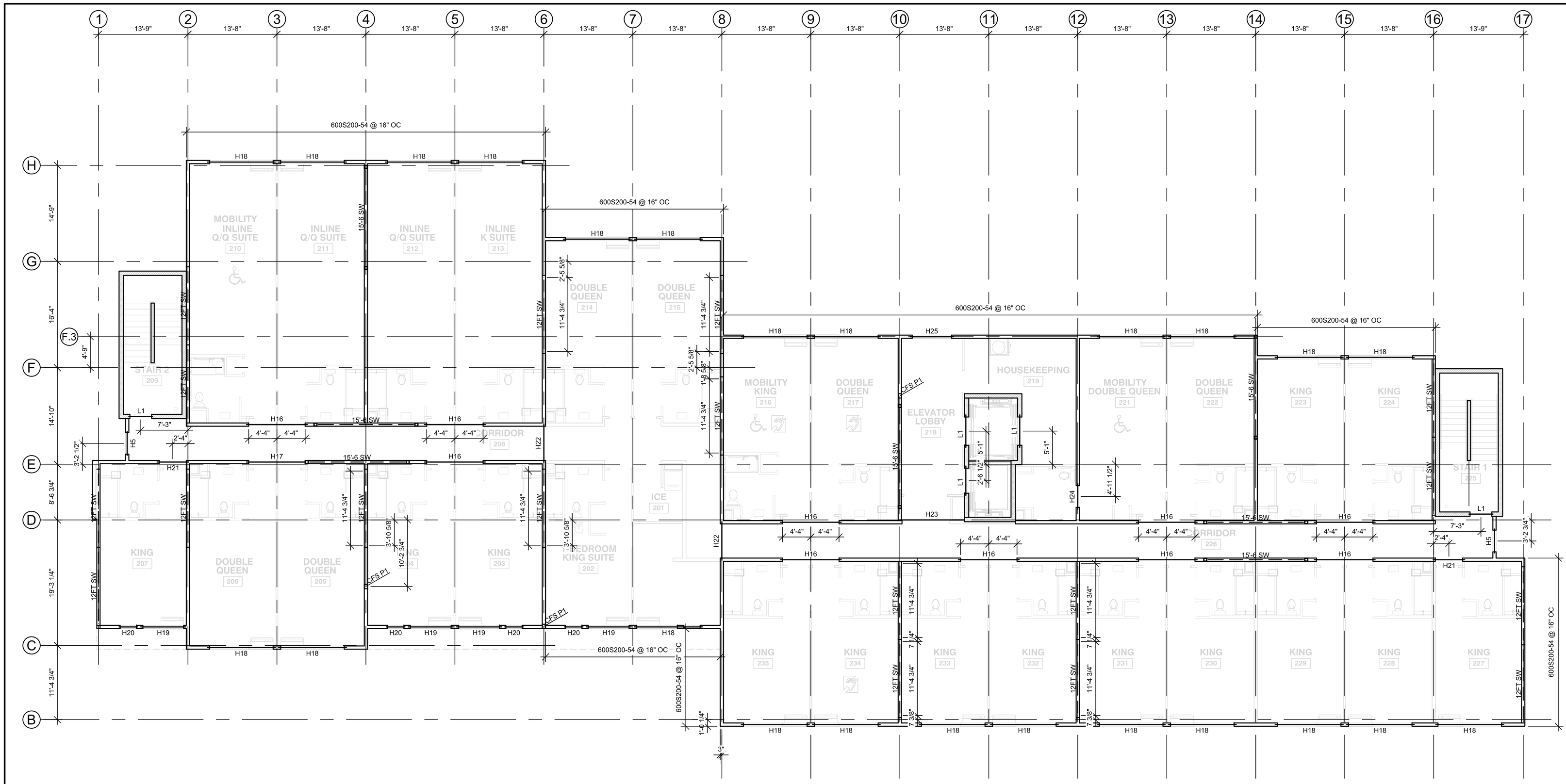
NOT FOR CONSTRUCTION

DRAWING TITLE
2ND FLOOR FRAMING PLAN

DATE
05-12-2020

PROJECT NUMBER
17971

SHEET NUMBER
S102



SECOND FLOOR WALL FRAMING PLAN NOTES:

1. THE PROJECT DATUM ELEVATION EQUALS THE TOP OF FINISHED FLOOR AT REFERENCE ELEVATION 0'-0".
2. THE REFERENCE ELEVATION FOR THE TOP OF CFS BEARING WALLS IS 22'-7 1/4" (22'-7" 1/4 ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED.
3. STRUCTURAL CFS WALLS ON THE SECOND FLOOR SHALL BE 600S200-97 @ 16" OC WITH BRIDGING AT MID-HEIGHT UNLESS OTHERWISE NOTED.
4. PROVIDE CFS POSTS PER THE SCHEDULE.
5. PROVIDE HEADERS, JAMB AND KING STUDS PER THE HEADER SCHEDULE.
6. PROVIDE SHEAR WALLS WITH HOLD-DOWNS PER SCHEDULE AND DETAILS. PROVIDE THREADED ROD AND SOLID BLOCK THRU FLOOR PER SCHEDULE AND DETAILS.
7. PROVIDE 8" REINFORCED CMU AT THE STAIRS AND ELEVATOR PER THE MASONRY DETAILS.
8. SEE S101 FOR ADDITIONAL DIMENSIONS.

1 / S103 2ND FLOOR WALL FRAMNG PLAN
1/8" = 1'-0"

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7301 Barberry Lane
Manlius, New York 13104
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N.K. BHANDARI
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Syracuse, NY 13204
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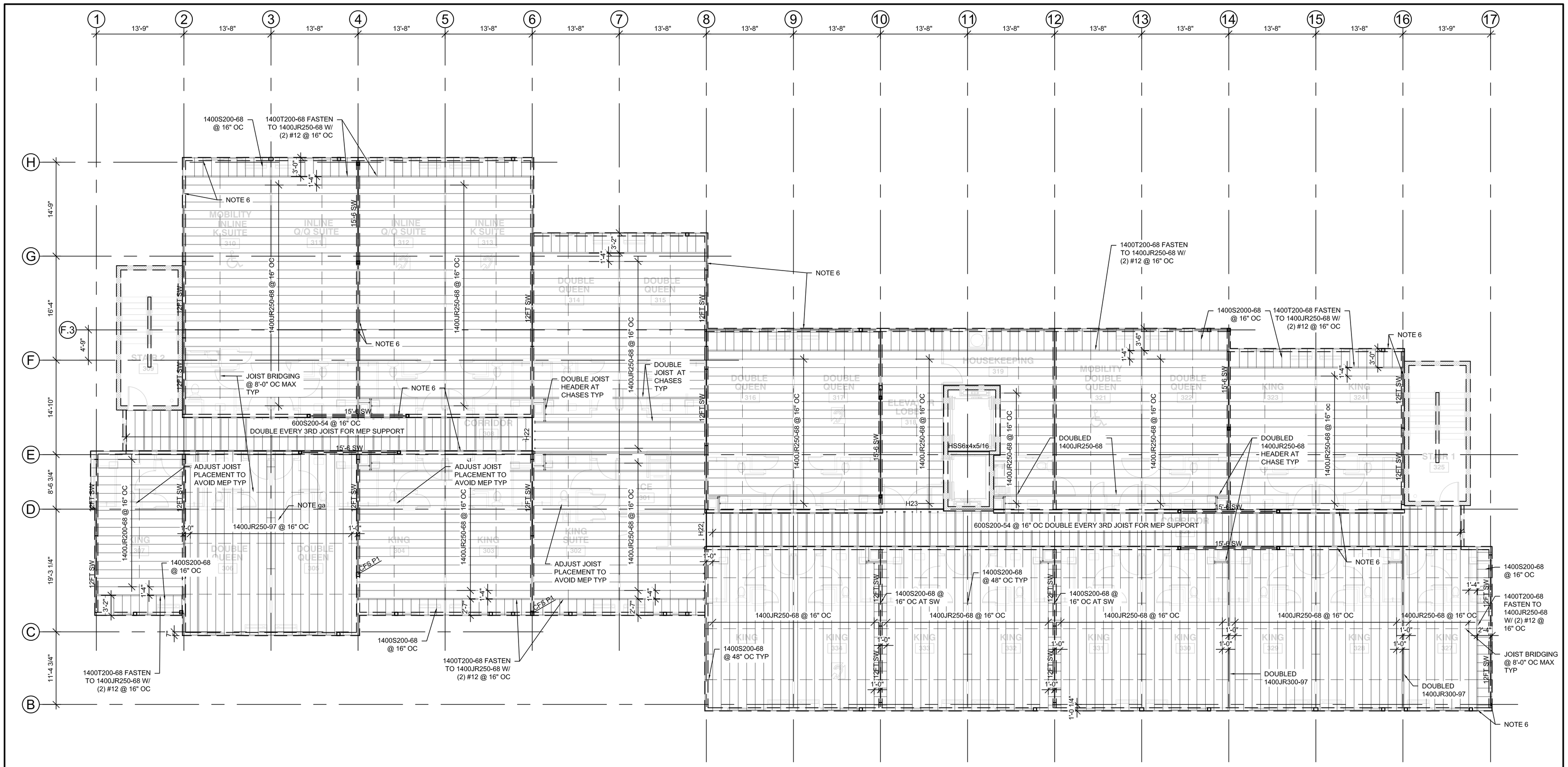
DRAWING TITLE
2ND FLOOR WALL FRAMING PLAN

DATE 05-12-2020

PROJECT NUMBER 17971

SHEET NUMBER **S103**



THIRD FLOOR FRAMING PLAN NOTES:

1. THE PROJECT DATUM ELEVATION EQUALS THE TOP OF FINISHED FLOOR AT REFERENCE ELEVATION 0'-0".
2. THE REFERENCE ELEVATION FOR THE TOP OF FINISHED THIRD FLOOR GYP-CRETE IS 23'-11" (23'-11" ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED.
3. THE REFERENCE ELEVATION FOR THE TOP OF FLOOR SHEATHING IS 23'-10" (23'-10" ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED. FLOOR SHEATHING SHALL BE 3/4" CONCRETE BOARD FASTENED WITH #8 SCREWS @ 4" OC AT PANEL ENDS AND 12" OC IN THE PANEL FIELD PER MANUFACTURER'S RECOMMENDATIONS.
4. THE REFERENCE ELEVATION FOR THE TOP OF FLOOR JOISTS IS 23'-9 1/4" (23'-9 1/4" ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED. PROVIDE AT A MINIMUM THE JOIST BRIDGING AS SHOWN AND AS REQUIRED BY THE MANUFACTURER. PROVIDE JOIST HANGERS FOR SINGLE AND DOUBLE JOISTS PER THE SCHEDULE. THE TOP ELEVATION OF THE SUPPORTING BEARING WALLS SHALL BE CALCULATED BASED ON THE SUPPORTED STRUCTURE IN ORDER TO MAINTAIN THE REQUIRED FINISHED FLOOR ELEVATION.
5. PROVIDE SOLID BLOCK THRU FLOOR AT ALL POSTS AND JAMB STUDS. PROVIDE THREADED ROD THRU FLOOR AT SHEAR WALLS.
6. PROVIDE 600S200 STIFF/SQUASH BLOCK TYPICAL.

1 / S104 3RD FLOOR FRAMNG PLAN
1/8" = 1'-0"

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7301 Barberry Lane
Manlius, New York 13104
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ARCHITECTURE & ENGINEERING, P.C.
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Syracuse, NY 13204
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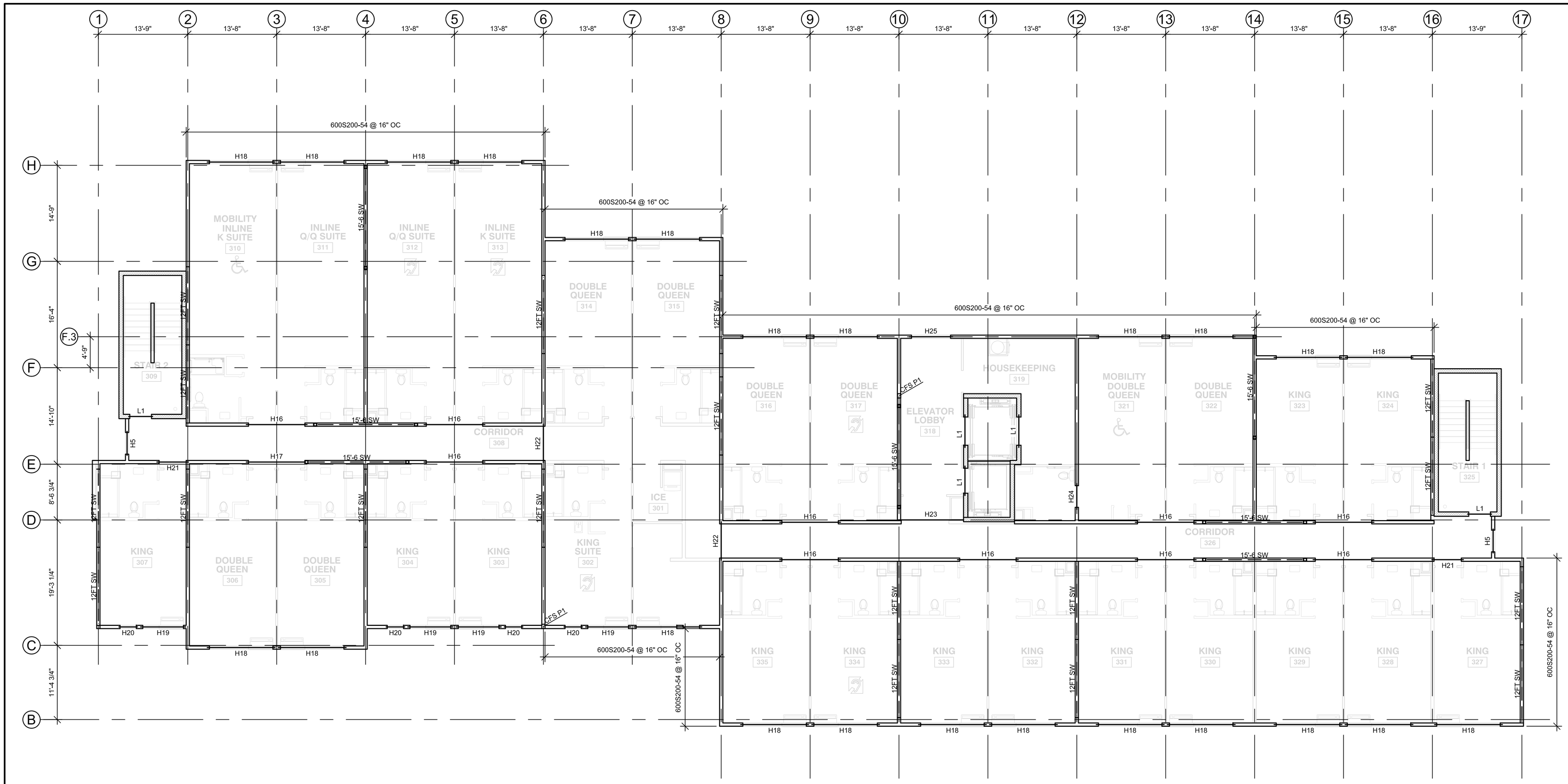
DATE
05-12-2020

PROJECT NUMBER
17971

SHEET NUMBER
S104



THIRD FLOOR WALL FRAMING PLAN NOTES:

1. THE PROJECT DATUM ELEVATION EQUALS THE TOP OF FINISHED FLOOR AT REFERENCE ELEVATION 0'-0".
2. THE REFERENCE ELEVATION FOR THE TOP OF CFS BEARING WALLS IS 32'-6 1/4" (32'-6" 1/4 ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED.
3. STRUCTURAL CFS WALLS ON THE SECOND FLOOR SHALL BE 600S200-68 @ 16" OC WITH BRIDGING AT MID-HEIGHT UNLESS OTHERWISE NOTED.
4. PROVIDE CFS POSTS PER THE SCHEDULE.
5. PROVIDE HEADERS, JAMB AND KING STUDS PER THE HEADER SCHEDULE.
6. PROVIDE SHEAR WALLS WITH HOLD-DOWNS PER SCHEDULE AND DETAILS. PROVIDE THREADED ROD AND SOLID BLOCK THRU FLOOR PER SCHEDULE AND DETAILS.
7. PROVIDE 8" REINFORCED CMU AT THE STAIRS AND ELEVATOR PER THE MASONRY DETAILS.
8. SEE S101 & S103 FOR ADDITIONAL DIMENSIONS.

1 / S105 3RD FLOOR WALL FRAMNG PLAN
1/8" = 1'-0"

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Manlius, New York 13104
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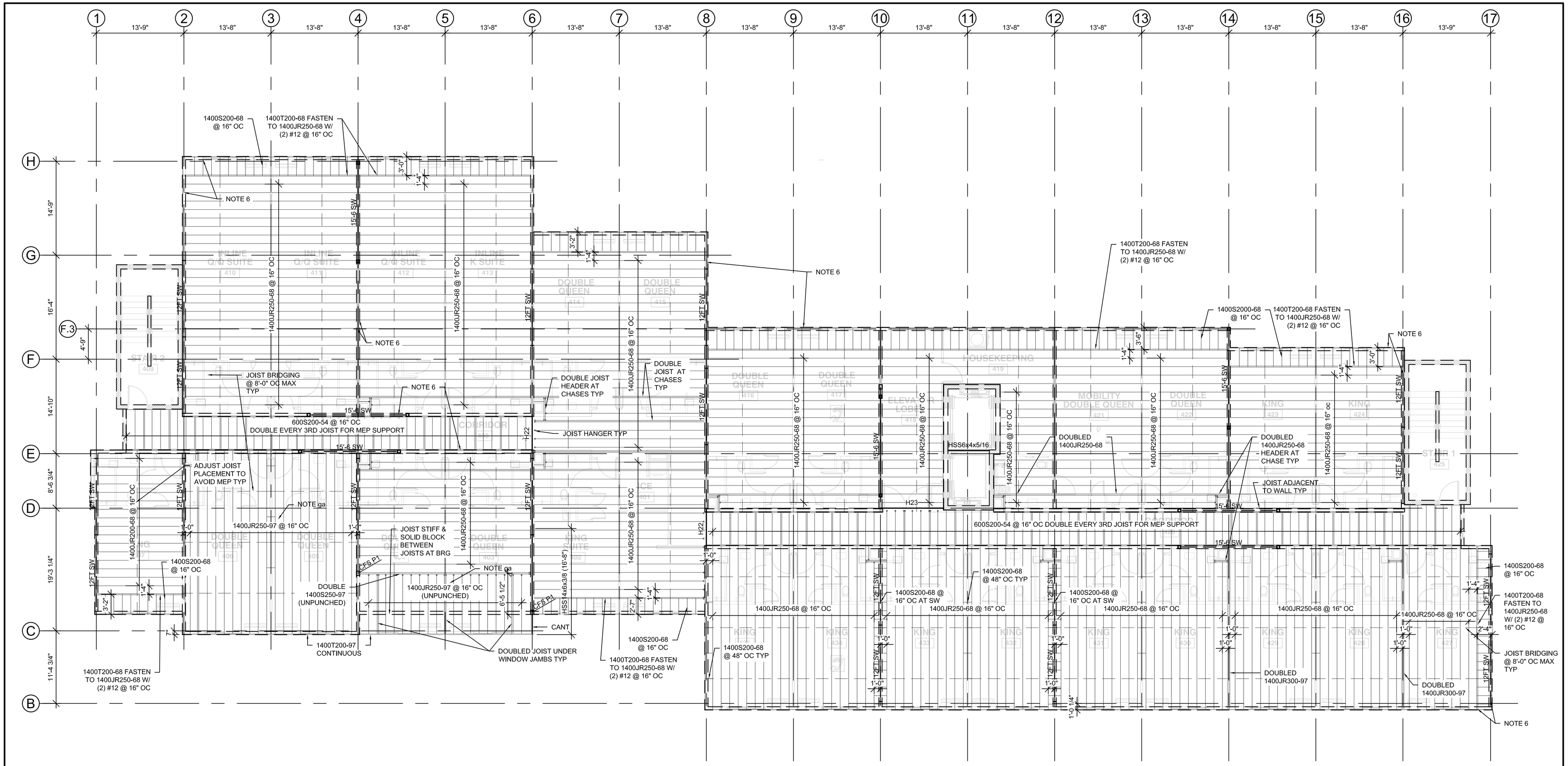
DATE 05-12-2020

PROJECT NUMBER 17971

SHEET NUMBER **S105**



1 S106 4TH FLOOR FRAMNG PLAN
1/8" = 1'-0"

FOURTH FLOOR FRAMING PLAN NOTES:

1. THE PROJECT DATUM ELEVATION EQUALS THE TOP OF FINISHED FLOOR AT REFERENCE ELEVATION 0'-0".
2. THE REFERENCE ELEVATION FOR THE TOP OF FINISHED FOURTH FLOOR GYP-CRETE IS 33'-10" (33'-10" ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED.
3. THE REFERENCE ELEVATION FOR THE TOP OF FLOOR SHEATHING IS 33'-9" (33'-9" ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED. FLOOR SHEATHING SHALL BE 3/4" CONCRETE BOARD FASTENED WITH #8 SCREWS @ 4" OC AT PANEL ENDS AND 12" OC IN THE PANEL FIELD PER MANUFACTURER'S RECOMMENDATIONS.
4. THE REFERENCE ELEVATION FOR THE TOP OF FLOOR JOISTS IS 33'-8 1/4" (33'-8 1/4" ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED. PROVIDE AT A MINIMUM THE JOIST BRIDGING AS SHOWN AND AS REQUIRED BY THE MANUFACTURER. PROVIDE JOIST HANGERS FOR SINGLE AND DOUBLE JOISTS PER THE SCHEDULE. THE TOP ELEVATION OF THE SUPPORTING BEARING WALLS SHALL BE CALCULATED BASED ON THE SUPPORTED STRUCTURE IN ORDER TO MAINTAIN THE REQUIRED FINISHED FLOOR ELEVATION.
5. PROVIDE SOLID BLOCK THRU FLOOR AT ALL POSTS AND JAMB STUDS. PROVIDE THREADED ROD THRU FLOOR AT SHEAR WALLS.
6. PROVIDE 600S200 STIFF/SQUASH BLOCK TYPICAL.

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7301 Barberry Lane
Manlius, New York 13104
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N.K. BHANDARI
ARCHITECTURE & ENGINEERING, P.C.
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DRAWING TITLE
4TH FLOOR FRAMING PLAN

DATE
05-12-2020

PROJECT NUMBER
17971

SHEET NUMBER
S106

FOURTH FLOOR WALL FRAMING PLAN NOTES:

1. THE PROJECT DATUM ELEVATION EQUALS THE TOP OF FINISHED FLOOR AT REFERENCE ELEVATION 0'-0".
2. THE REFERENCE ELEVATION FOR THE TOP OF CFS BEARING WALLS IS 42'-5 1/4" (42'-5" 1/4 ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED.
3. STRUCTURAL CFS WALLS ON THE SECOND FLOOR SHALL BE 600S200-54 @ 16" OC WITH BRIDGING AT MID-HEIGHT UNLESS OTHERWISE NOTED.
4. PROVIDE CFS POSTS PER THE SCHEDULE.
5. PROVIDE HEADERS, JAMB AND KING STUDS PER THE HEADER SCHEDULE.
6. PROVIDE SHEAR WALLS WITH HOLD-DOWNS PER SCHEDULE AND DETAILS. PROVIDE THREADED ROD AND SOLID BLOCK THRU FLOOR PER SCHEDULE AND DETAILS.
7. PROVIDE 8" REINFORCED CMU AT THE STAIRS AND ELEVATOR PER THE MASONRY DETAILS.
8. SEE S101 & S103 FOR ADDITIONAL DIMENSIONS.

1 / S107 4TH FLOOR WALL FRAMNG PLAN
1/8" = 1'-0"

a+e architects, p.c.
7301 Barberry Lane
Manlius, New York 13104
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ARCHITECTURE & ENGINEERING, P.C.
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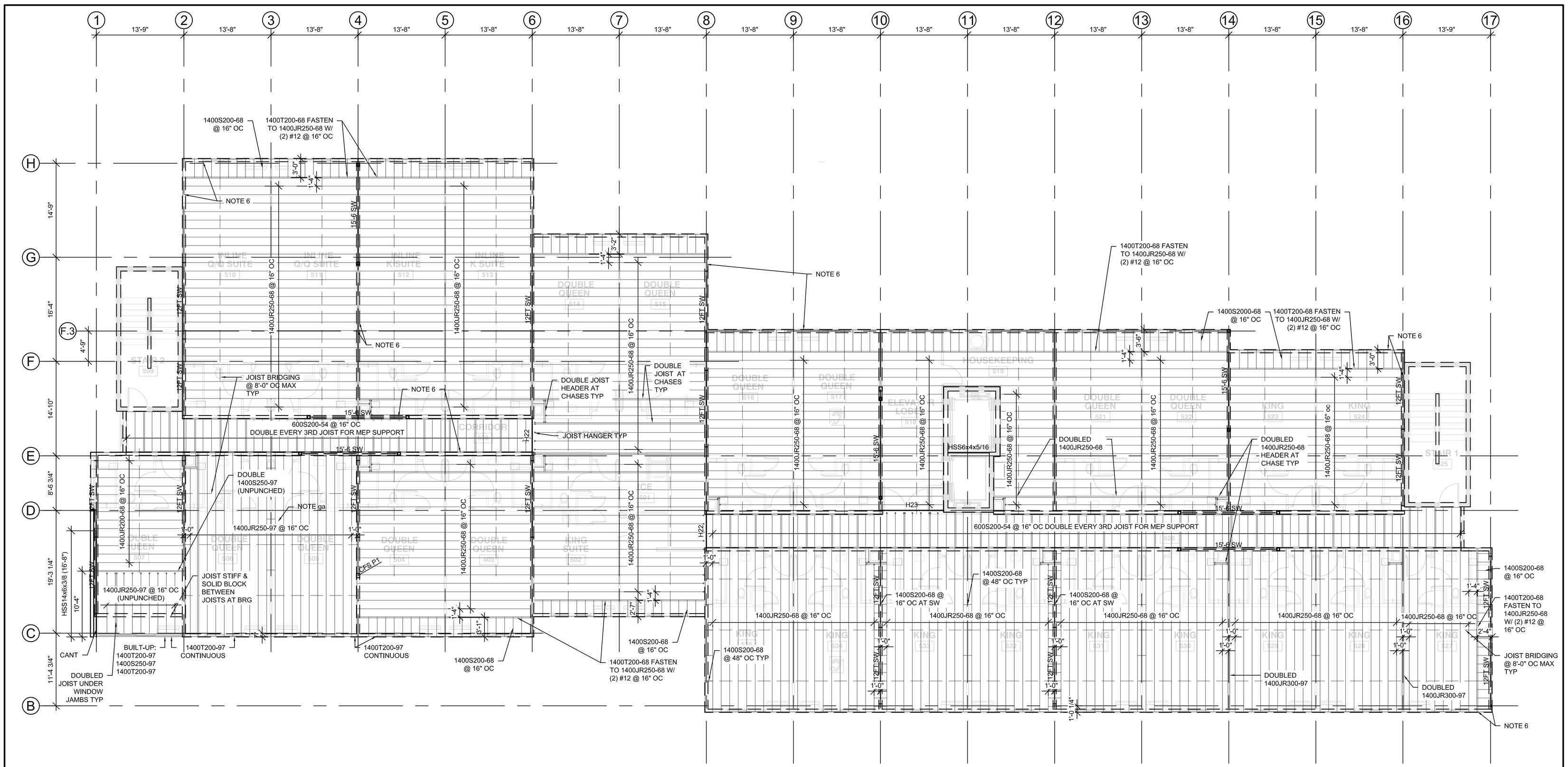
DRAWING TITLE
4TH FLOOR WALL FRAMING PLAN

DATE 05-12-2020

PROJECT NUMBER 17971

SHEET NUMBER **S107**



1 S108 5TH FLOOR FRAMNG PLAN
1/8" = 1'-0"

FIFTH FLOOR FRAMING PLAN NOTES:

1. THE PROJECT DATUM ELEVATION EQUALS THE TOP OF FINISHED FLOOR AT REFERENCE ELEVATION 0'-0".
2. THE REFERENCE ELEVATION FOR THE TOP OF FINISHED FIFTH FLOOR GYP-CRETE IS 43'-9" (43'-9" ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED.
3. THE REFERENCE ELEVATION FOR THE TOP OF FLOOR SHEATHING IS 43'-8" (43'-8" ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED. FLOOR SHEATHING SHALL BE 3/4" CONCRETE BOARD FASTENED WITH #8 SCREWS @ 4" OC AT PANEL ENDS AND 12" OC IN THE PANEL FIELD PER MANUFACTURER'S RECOMMENDATIONS.
4. THE REFERENCE ELEVATION FOR THE TOP OF FLOOR JOISTS IS 43'-7 1/4" (43'-7 1/4" ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED. PROVIDE AT A MINIMUM THE JOIST BRIDGING AS SHOWN AND AS REQUIRED BY THE MANUFACTURER. PROVIDE JOIST HANGERS FOR SINGLE AND DOUBLE JOISTS PER THE SCHEDULE. THE TOP ELEVATION OF THE SUPPORTING BEARING WALLS SHALL BE CALCULATED BASED ON THE SUPPORTED STRUCTURE IN ORDER TO MAINTAIN THE REQUIRED FINISHED FLOOR ELEVATION.
5. PROVIDE SOLID BLOCK THRU FLOOR AT ALL POSTS AND JAMB STUDS. PROVIDE THREADED ROD THRU FLOOR AT SHEAR WALLS.
6. PROVIDE 600S200 STIFF/SQUASH BLOCK TYPICAL.

a+e architects, p.c.
7301 Barberry Lane
Manlius, New York 13104
315·415·9988

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N.K. BHANDARI
ARCHITECTURE & ENGINEERING, P.C.
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Syracuse, NY 13204
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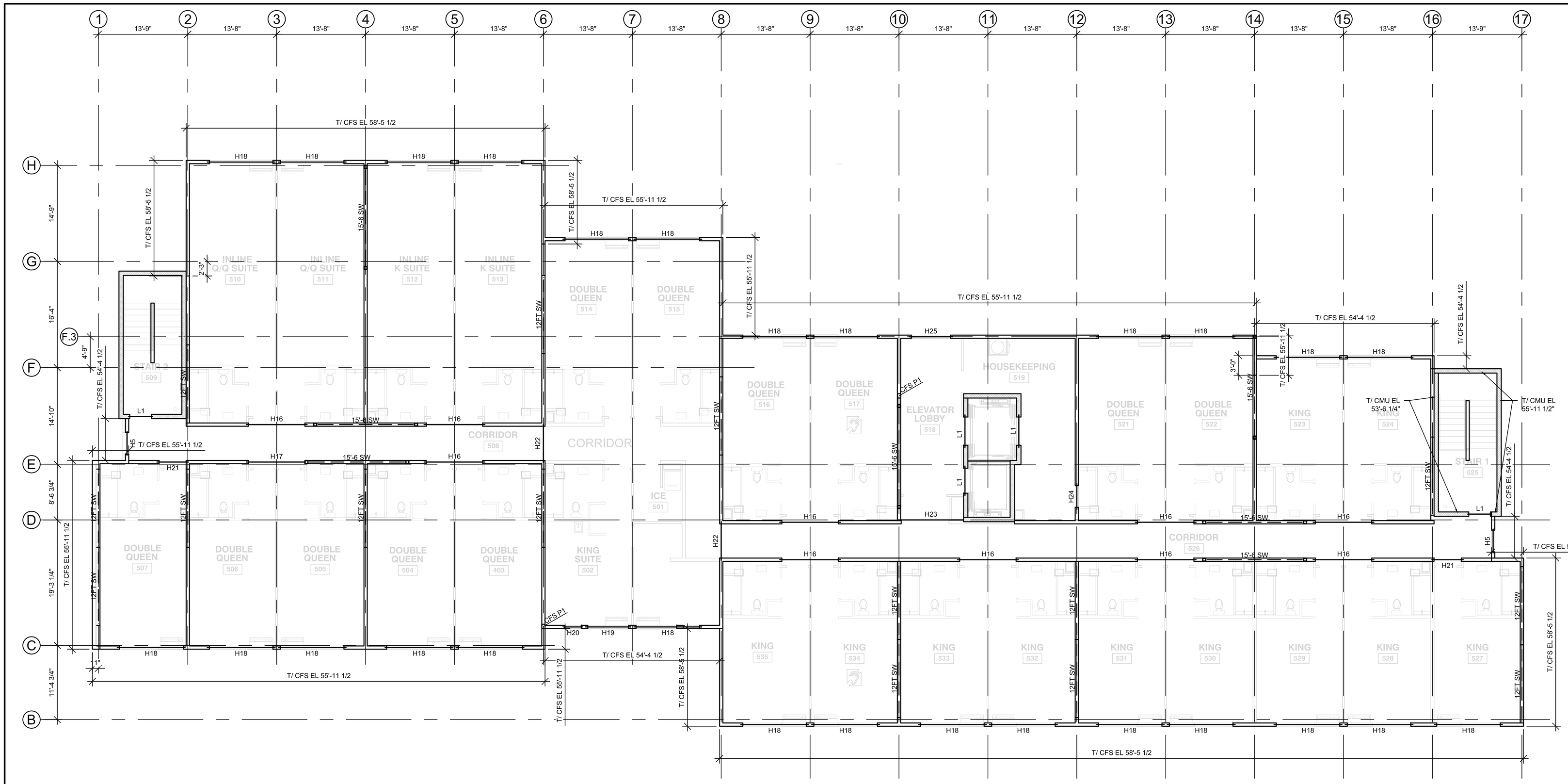
DRAWING TITLE
5TH FLOOR FRAMING PLAN

DATE
05-12-2020

PROJECT NUMBER
17971

SHEET NUMBER
S108



FIFTH FLOOR WALL FRAMING PLAN NOTES:

1. THE PROJECT DATUM ELEVATION EQUALS THE TOP OF FINISHED FLOOR AT REFERENCE ELEVATION 0'-0".
2. THE REFERENCE ELEVATION FOR THE TOP OF CFS BEARING WALLS IS 52'-4 1/4" (52'-4" 1/4 ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED. SEE SECTIONS AND DETAILS FOR WALLS INTEGRAL WITH PARAPETS.
3. STRUCTURAL CFS WALLS ON THE SECOND FLOOR SHALL BE 600S162-54 @ 16" OC WITH BRIDGING AT MAXIMUM 48" OC SPACED VERTICALLY UNLESS OTHERWISE NOTED.
4. PROVIDE CFS POSTS PER THE SCHEDULE.
5. PROVIDE HEADERS, JAMB AND KING STUDS PER THE HEADER SCHEDULE.
6. PROVIDE SHEAR WALLS WITH HOLD-DOWNS PER SCHEDULE AND DETAILS. PROVIDE THREADED ROD AND SOLID BLOCK THRU FLOOR PER SCHEDULE AND DETAILS.
7. PROVIDE 8" REINFORCED CMU AT THE STAIRS AND ELEVATOR PER THE MASONRY DETAILS.
8. SEE S101 & S103 FOR ADDITIONAL DIMENSIONS.

1 / S109 5TH FLOOR WALL FRAMNG PLAN
1/8" = 1'-0"

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7301 Barberry Lane
Manlius, New York 13104
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N.K. BHANDARI
ARCHITECTURE & ENGINEERING, P.C.
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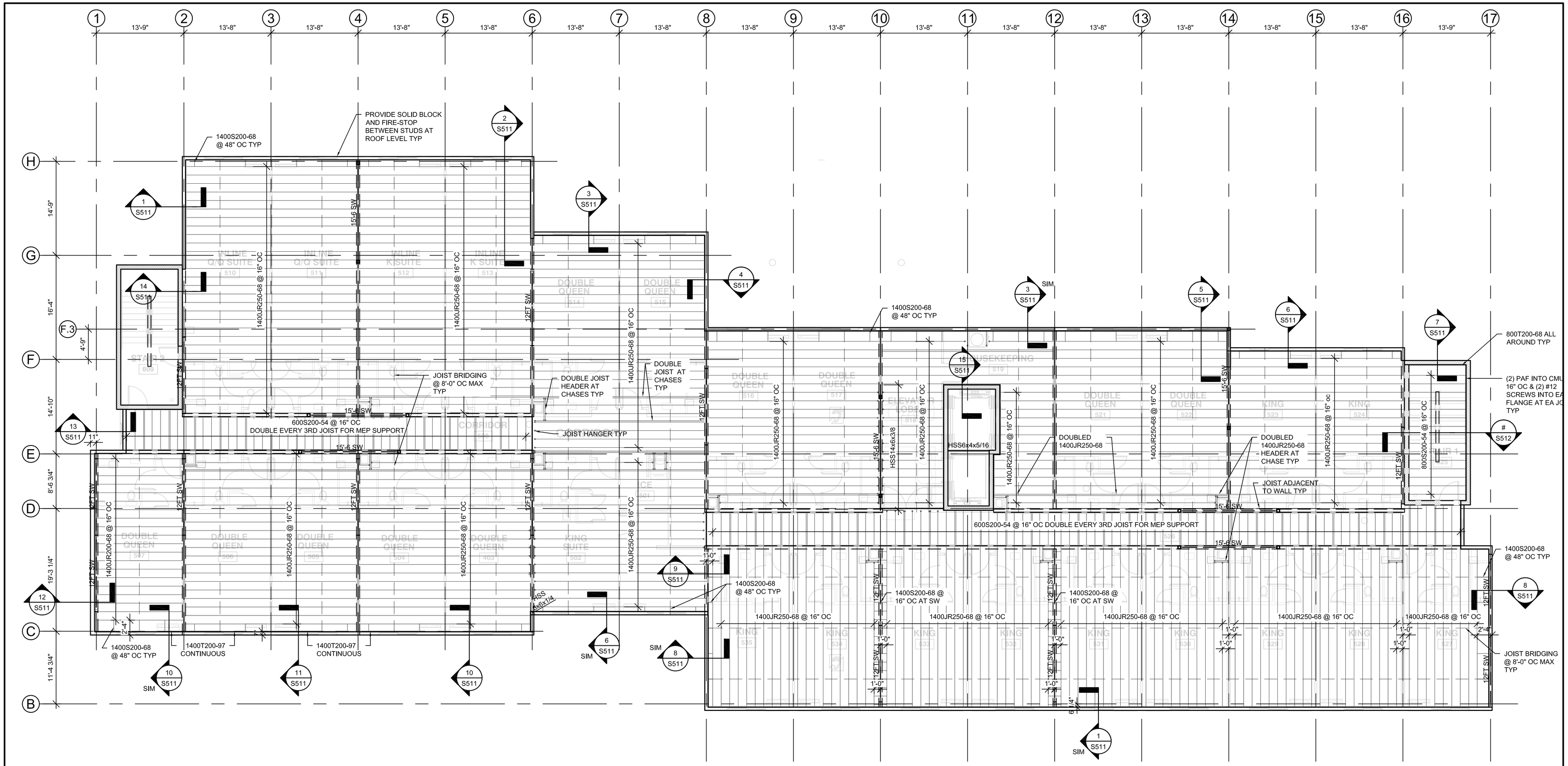
5TH FLOOR WALL FRAMING PLAN

DATE
05-12-2020

PROJECT NUMBER
17971

SHEET NUMBER
S109



ROOF FRAMING PLAN NOTES:

1. THE PROJECT DATUM ELEVATION EQUALS THE TOP OF FINISHED FLOOR AT REFERENCE ELEVATION 0'-0".
2. THE REFERENCE ELEVATION FOR THE TOP OF ROOF SHEATHING IS 53'-7" (53'-7" ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED. ROOF SHEATHING SHALL BE 3/4" FRT EXTERIOR GRADE APA RATED SHEATHING FASTENED WITH SS #12 @ 6" OC AT PANEL ENDS AND 12" OC IN THE PANEL FIELD PER MANUFACTURER'S RECOMMENDATIONS.
3. THE REFERENCE ELEVATION FOR THE TOP OF ROOF JOISTS IS 53'-6 1/4" (53'-6 1/4" ABOVE THE PROJECT DATUM ELEVATION OF 0'-0") UNLESS OTHERWISE NOTED. PROVIDE AT A MINIMUM THE JOIST BRIDGING AS SHOWN AND AS REQUIRED BY THE MANUFACTURER. PROVIDE JOIST HANGERS FOR SINGLE AND DOUBLE JOISTS PER THE SCHEDULE. THE TOP ELEVATION OF THE SUPPORTING BEARING WALLS SHALL BE CALCULATED BASED ON THE SUPPORTED STRUCTURE IN ORDER TO MAINTAIN THE REQUIRED ROOF DECK ELEVATION.

1 S110 ROOF FRAMNG PLAN
1/8" = 1'-0"

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7301 Barberry Lane
Manlius, New York 13104
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N.K. BHANDARI
ARCHITECTURE & ENGINEERING, P.C.
1005 W. Fayette St, Suite 500
Syracuse, NY 13204
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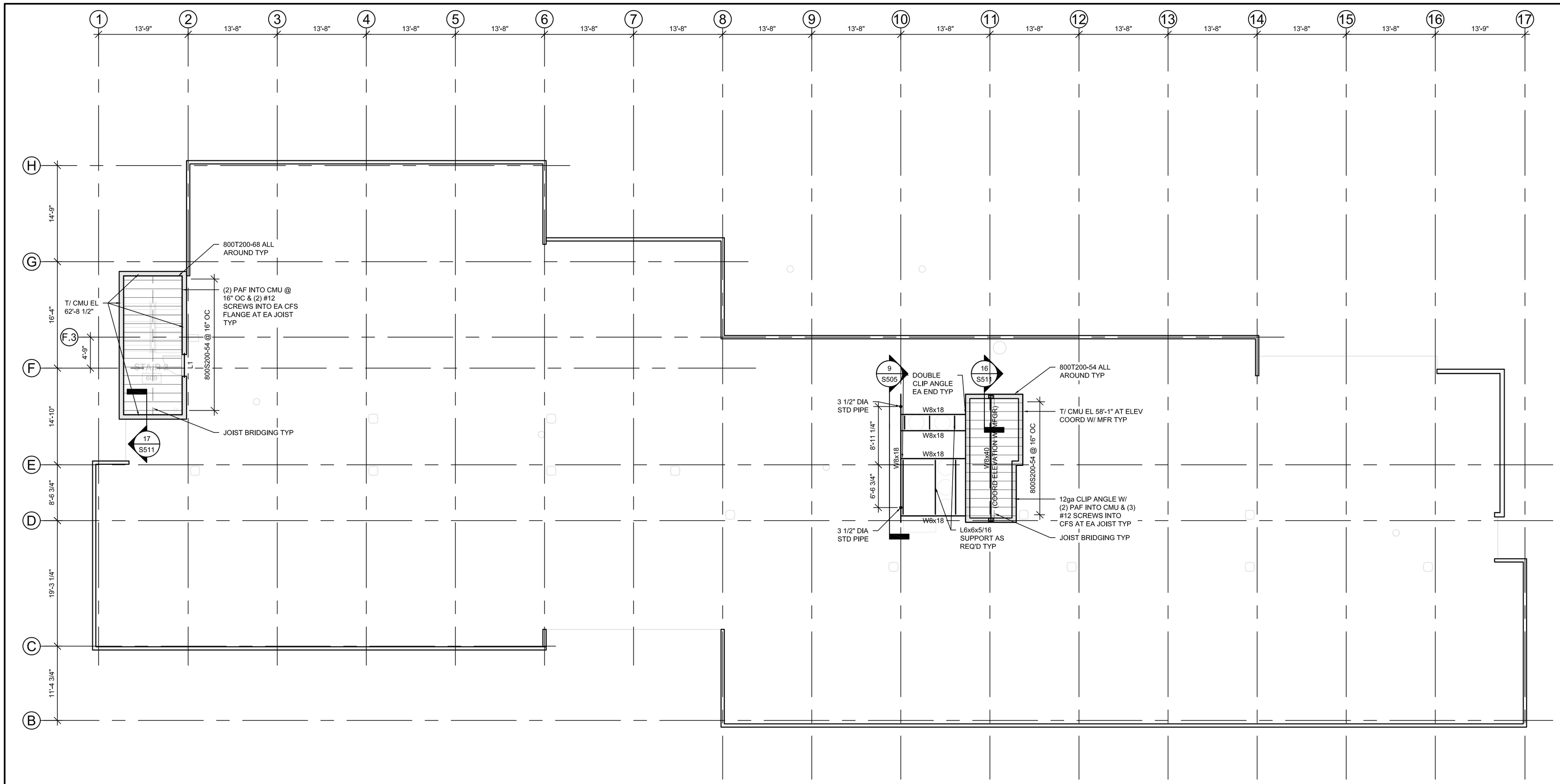
DRAWING TITLE
ROOF FRAMING PLAN

DATE
05-12-2020

PROJECT NUMBER
17971

SHEET NUMBER
S110



HIGH ROOF FRAMING PLAN NOTES:

1. THE PROJECT DATUM ELEVATION EQUALS THE TOP OF FINISHED FLOOR AT REFERENCE ELEVATION 0'-0".
2. ROOF SHEATHING SHALL BE 3/4" FRT EXTERIOR GRADE APA RATED SHEATHING FASTENED WITH SS #12 @ 6" OC AT PANEL ENDS AND 12" OC IN THE PANEL FIELD PER MANUFACTURER'S RECOMMENDATIONS.
3. COORDINATE THE REFERENCE ELEVATION FOR THE TOP OF ROOF JOISTSWITH THE ELEVATOR MANUFACTURER AND APPROVED STAIR SHOP DRAWINGS. PROVIDE AT A MINIMUM THE JOIST BRIDGING AS SHOWN AND AS REQUIRED BY THE MANUFACTURER.
4. THE REFERENCE ELEVATION FOR THE TOP OF STEEL FRAME AT MEP IS 56'-10" (56'-10" ABOVE THE PROJECT DATUM ELEVATION OF 0'-0"). COORDINATE GEOMETRY AND CONNECTION REQUIREMENTS WITH MANUFACTURER. HOT DIP GALVANIZE ALL STRUCTURAL STEEL AND GALVANIZE WELDED STEEL ASSEMBLIES AFTER FABRICATION.

1 S111 HIGH ROOF FRAMNG PLAN
1/8" = 1'-0"

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7301 Barberry Lane
Manlius, New York 13104
315•415•9988

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N.K. BHANDARI
ARCHITECTURE & ENGINEERING, P.C.
1005 W. Fayette St, Suite 500
Syracuse, NY 13204
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DATE
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PROJECT NUMBER
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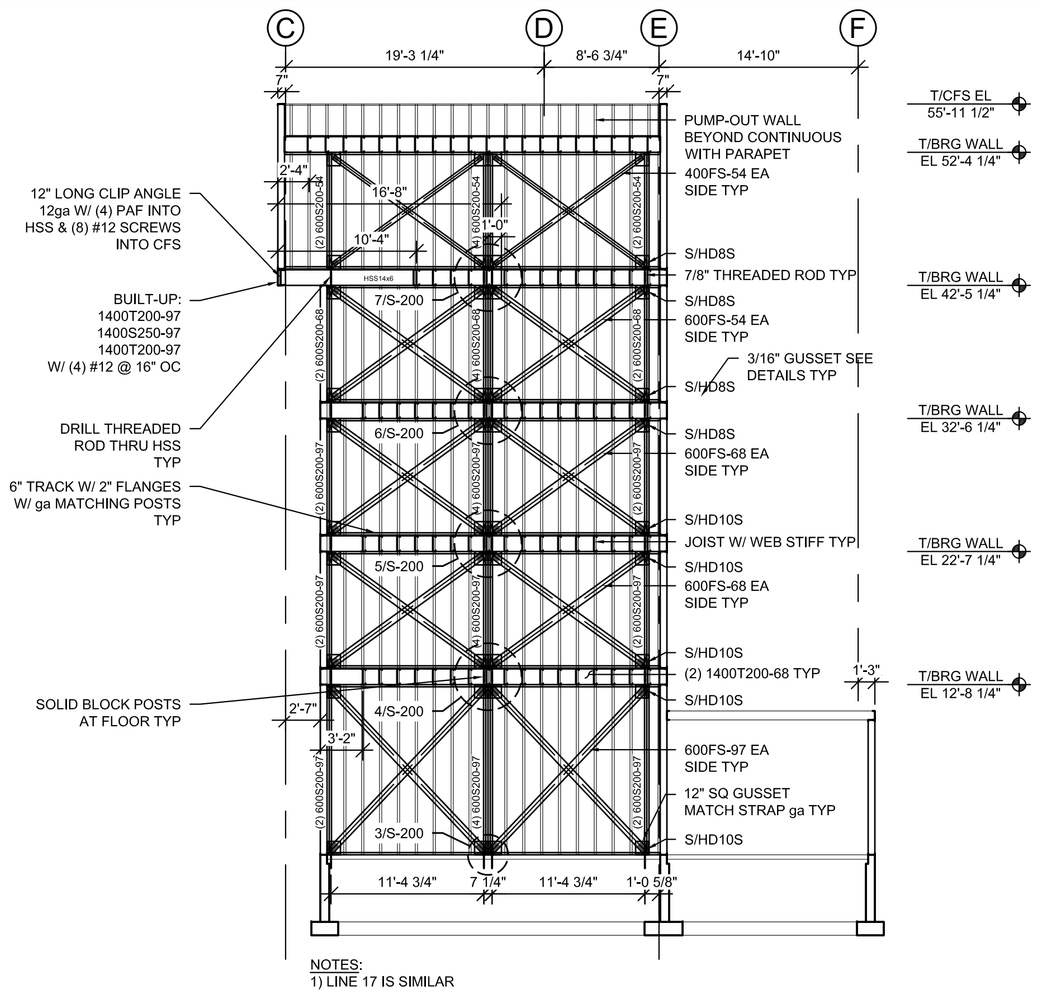
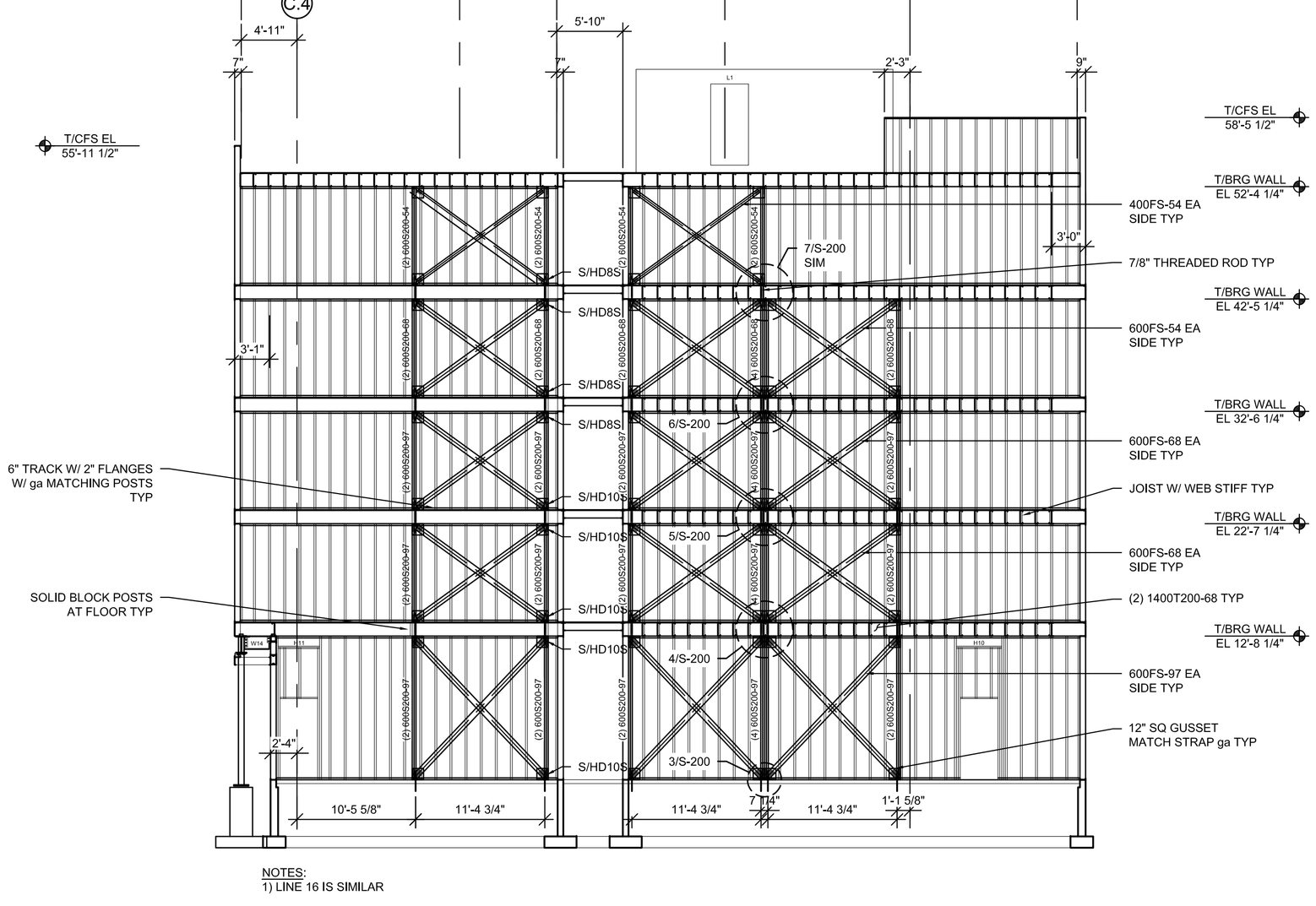
SHEET NUMBER
S111



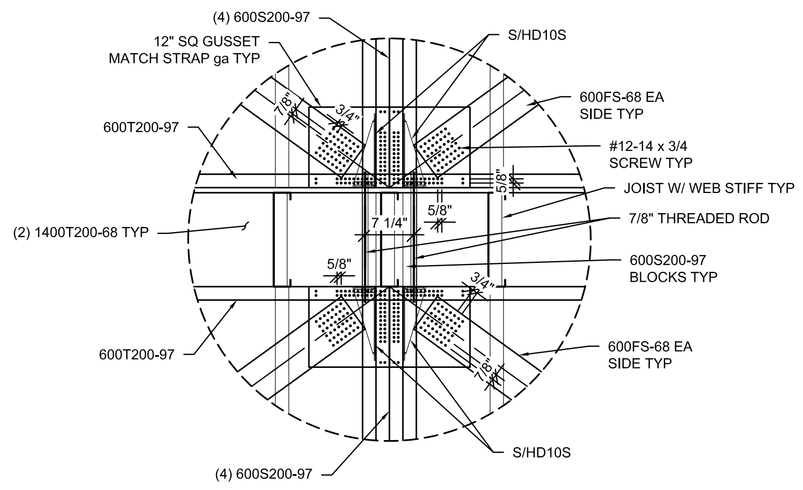
NOTES:
1) LINE 17 IS SIMILAR

1 S200 STRUCTURAL ELEVATION ALONG LINE 1
1/8" = 1'-0"

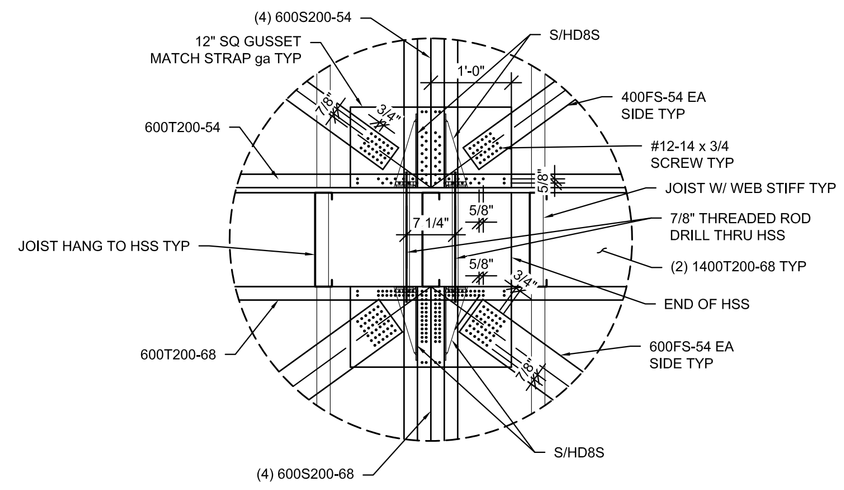


NOTES:
1) LINE 16 IS SIMILAR

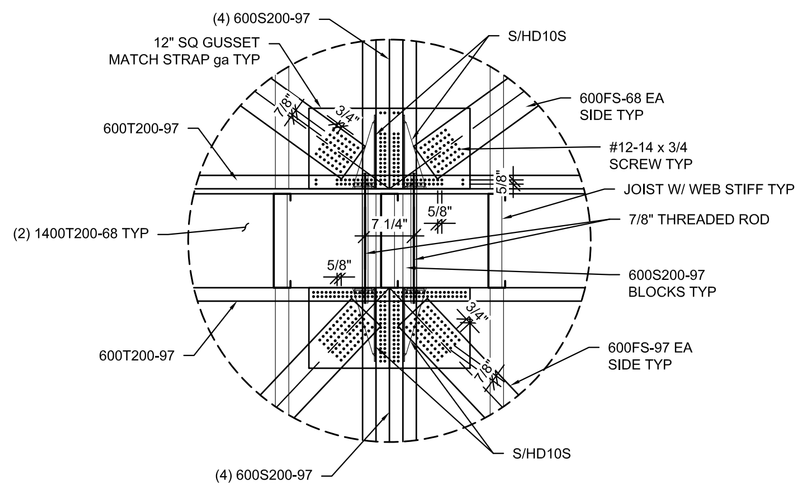
2 S200 STRUCTURAL ELEVATION ALONG LINE 2
1/8" = 1'-0"



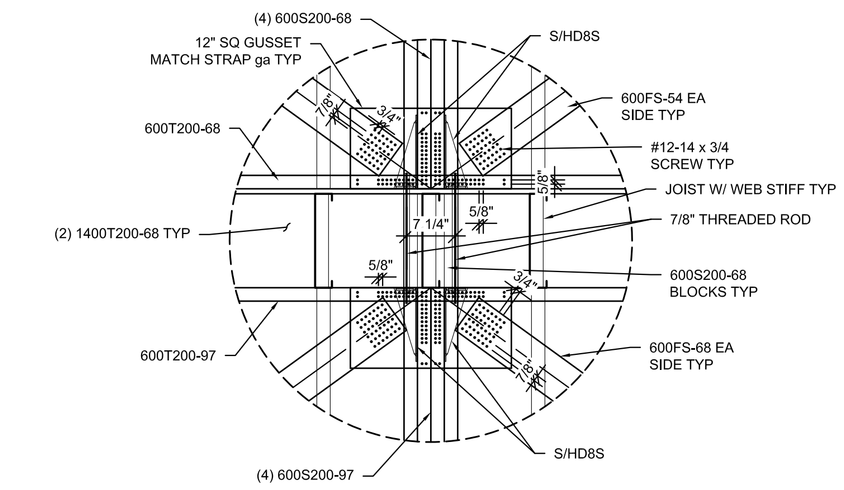
5 S200 SW DETAIL
3/4 = 1'-0"



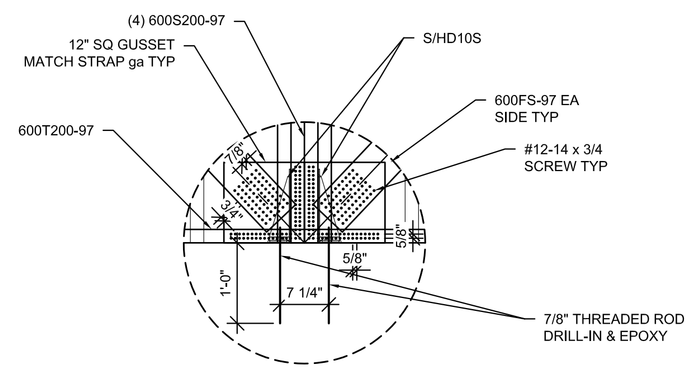
7 S200 SW DETAIL
3/4 = 1'-0"



4 S200 SW DETAIL
3/4 = 1'-0"



6 S200 SW DETAIL
3/4 = 1'-0"



3 S200 SW DETAIL
3/4 = 1'-0"

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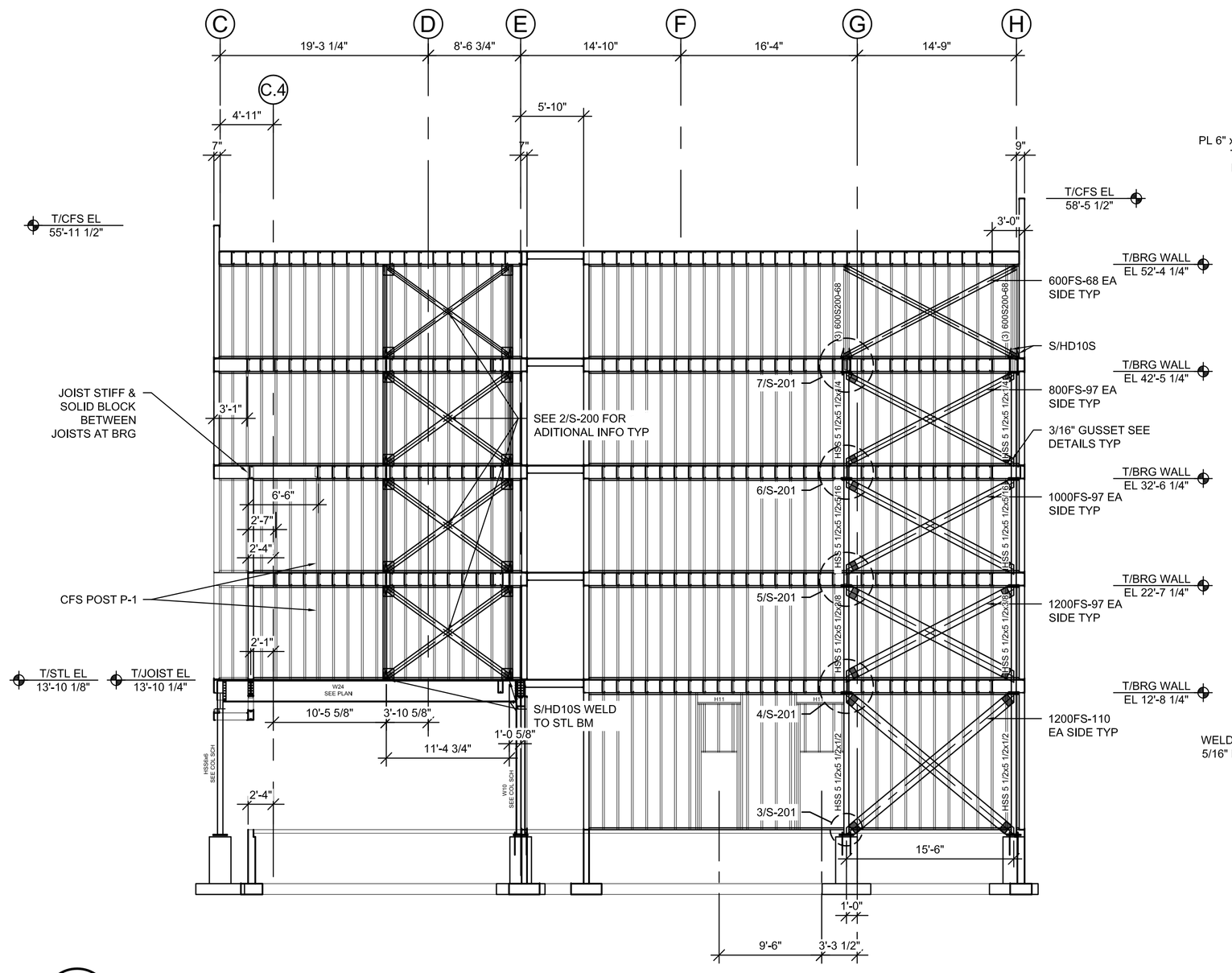
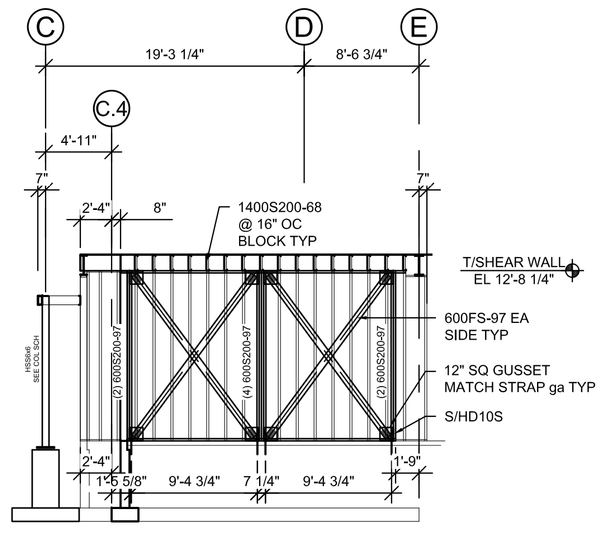
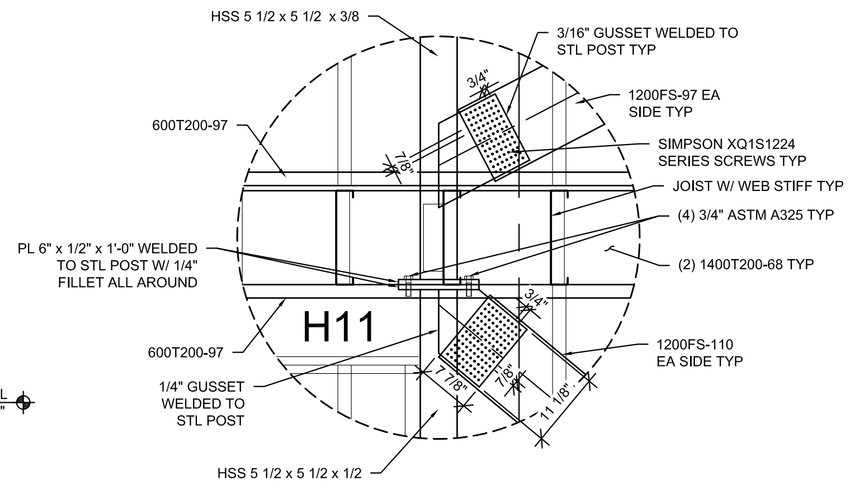


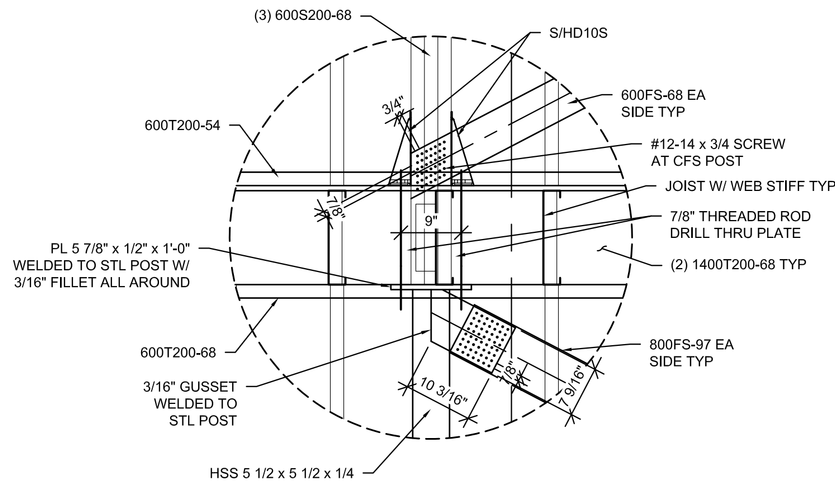
1 S201 STRUCTURAL ELEVATION ALONG LINE 4
1/8" = 1'-0"



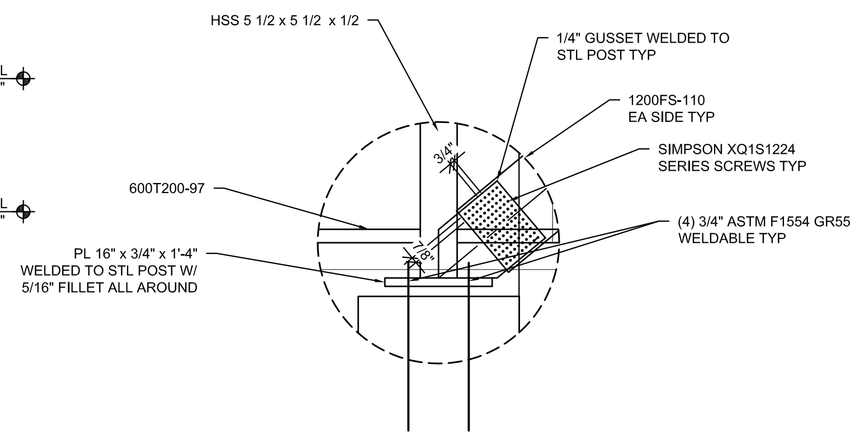
2 S201 STRUCTURAL ELEVATION ALONG LINE 5
1/8" = 1'-0"



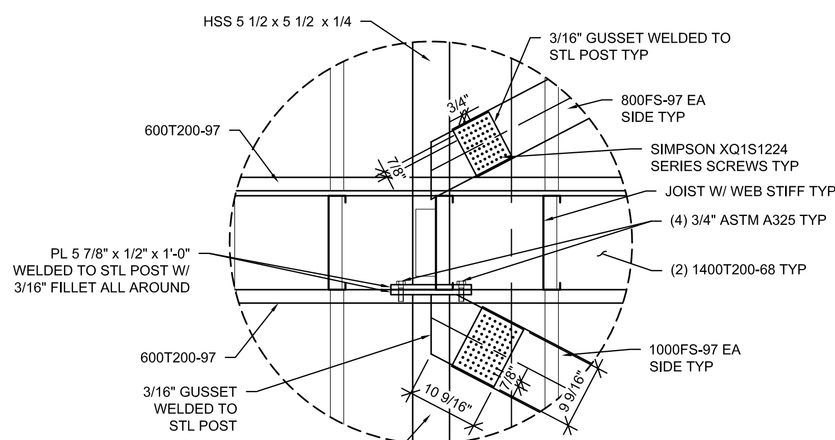
4 S201 SW DETAIL
3/4 = 1'-0"



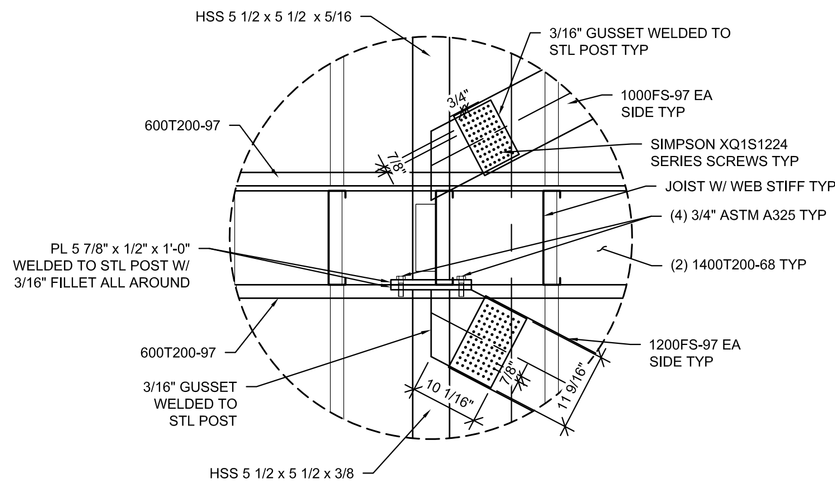
7 S201 SW DETAIL
3/4 = 1'-0"



3 S201 SW DETAIL
3/4 = 1'-0"



6 S201 SW DETAIL
3/4 = 1'-0"



5 S201 SW DETAIL
3/4 = 1'-0"

STRAP ANCHORAGE INTO STEEL HSS

LATERAL SYSTEM FLAT STRAP BRACING DETAILED FOR SEISMIC
USE SIMPSON XQ1S1224 SERIES SCREWS
DIA = 0.216 IN

STRAP SIZE (in)			4							5							6						
STRAP THICKNESS (mils)	DESIGN THICKNESS (in)	ASD ALLOWABLE (lb/screw)	RyFyAg (kip)	MIN QTY SCREWS	ROWS	COLS	ACTUAL QTY SCREW	RtFuAn (kip)		RyFyAg (kip)	MIN QTY SCREWS	ROWS	COLS	ACTUAL QTY SCREW	RtFuAn (kip)		RyFyAg (kip)	MIN QTY SCREWS	ROWS	COLS	ACTUAL QTY SCREW	RtFuAn (kip)	
54	0.0566	595	12.45	20.9	4	6	24	12.69	OK	15.57	26.2	5	6	30	15.86	OK	18.68	31.4	6	6	36	19.04	OK
68	0.0713	840	15.69	18.7	4	5	20	15.99	OK	19.61	23.3	5	5	25	19.98	OK	23.53	28.0	6	5	30	23.98	OK
97	0.1017	840	22.37	26.6	4	7	28	22.80	OK	27.97	33.3	5	7	35	28.50	OK	33.56	40.0	6	7	42	34.21	OK

STRAP SIZE (in)			8							10							12						
STRAP THICKNESS (mils)	DESIGN THICKNESS (in)	ASD ALLOWABLE (lb/screw)	RyFyAg (kip)	MIN QTY SCREWS	ROWS	COLS	ACTUAL QTY SCREW	RtFuAn (kip)		RyFyAg (kip)	MIN QTY SCREWS	ROWS	COLS	ACTUAL QTY SCREW	RtFuAn (kip)		RyFyAg (kip)	MIN QTY SCREWS	ROWS	COLS	ACTUAL QTY SCREW	RtFuAn (kip)	
54	0.0566	595	24.90	41.9	8	6	48	25.38	OK	31.13	52.3	10	6	60	31.73	OK	37.36	62.8	12	6	72	38.07	OK
68	0.0713	840	31.37	37.3	8	5	40	31.97	OK	39.22	46.7	10	5	50	39.97	OK	47.06	56.0	12	5	60	47.96	OK
97	0.1017	840	44.75	53.3	8	7	56	45.61	OK	55.94	66.6	10	7	70	57.01	OK	67.12	79.9	12	7	84	68.41	OK
110	0.1242	840	54.65	65.1	8	9	72	55.70	OK	68.31	81.3	10	9	90	69.62	OK	81.97	97.6	12	9	108	83.55	OK

STRAP ANCHORAGE INTO CFS STUDS

LATERAL SYSTEM FLAT STRAP BRACING DETAILED FOR SEISMIC
USE #12-14 x 3/4
DIA = 0.216 IN

STRAP SIZE (in)			2							4							5						
STRAP THICKNESS (mils)	DESIGN THICKNESS (in)	ASD ALLOWABLE (lb/screw)	RyFyAg (kip)	MIN QTY SCREWS	ROWS	COLS	ACTUAL QTY SCREW	RtFuAn (kip)		RyFyAg (kip)	MIN QTY SCREWS	ROWS	COLS	ACTUAL QTY SCREW	RtFuAn (kip)		RyFyAg (kip)	MIN QTY SCREWS	ROWS	COLS	ACTUAL QTY SCREW	RtFuAn (kip)	
54	0.0566	610	6.23	10.2	2	6	12	6.35	OK	12.45	20.4	4	6	24	12.69	OK	15.57	25.5	5	6	30	15.86	OK
68	0.0713	610	7.84	12.9	2	7	14	7.99	OK	15.69	25.7	4	7	28	15.99	OK	19.61	32.1	5	7	35	19.98	OK
97	0.1017	610	11.19	18.3	2	10	20	11.40	OK	22.37	36.7	4	10	40	22.80	OK	27.97	45.8	5	10	50	28.50	OK

STRAP SIZE (in)			6							7							8						
STRAP THICKNESS (mils)	DESIGN THICKNESS (in)	ASD ALLOWABLE (lb/screw)	RyFyAg (kip)	MIN QTY SCREWS	ROWS	COLS	ACTUAL QTY SCREW	RtFuAn (kip)		RyFyAg (kip)	MIN QTY SCREWS	ROWS	COLS	ACTUAL QTY SCREW	RtFuAn (kip)		RyFyAg (kip)	MIN QTY SCREWS	ROWS	COLS	ACTUAL QTY SCREW	RtFuAn (kip)	
54	0.0566	610	18.68	30.6	6	6	36	19.04	OK	21.79	35.7	7	6	42	22.21	OK	24.90	40.8	8	6	48	25.38	OK
68	0.0713	610	23.53	38.6	6	7	42	23.98	OK	27.45	45.0	7	7	49	27.98	OK	31.37	51.4	8	7	56	31.97	OK
97	0.1017	610	33.56	55.0	6	10	60	34.21	OK	39.15	64.2	7	10	70	39.91	OK	44.75	73.4	8	10	80	45.61	OK

a+e architects, p.c.
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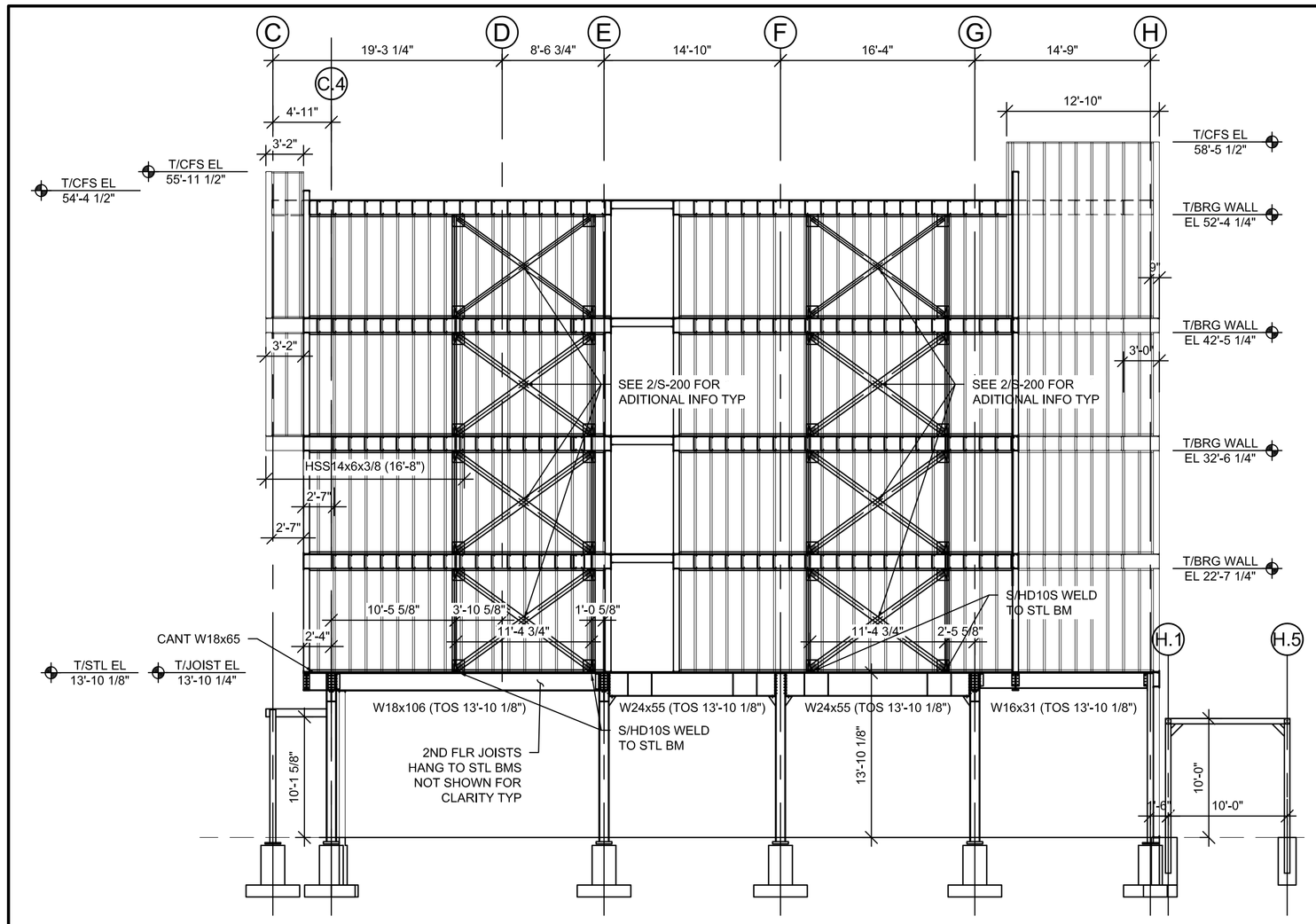
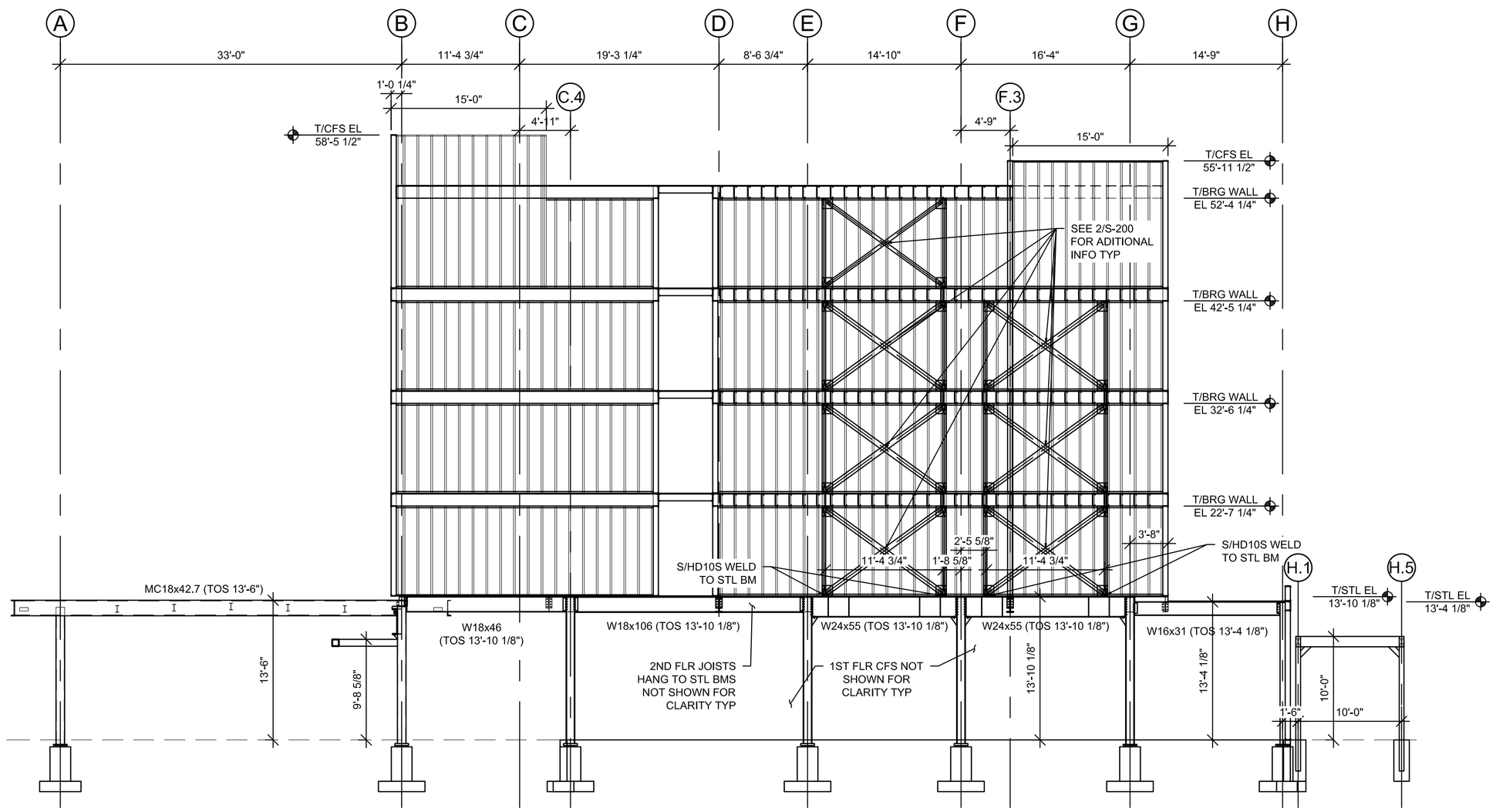


1 S202 STRUCTURAL ELEVATION ALONG LINE 6

1/8" = 1'-0"



2 S202 STRUCTURAL ELEVATION ALONG LINE 8

1/8" = 1'-0"

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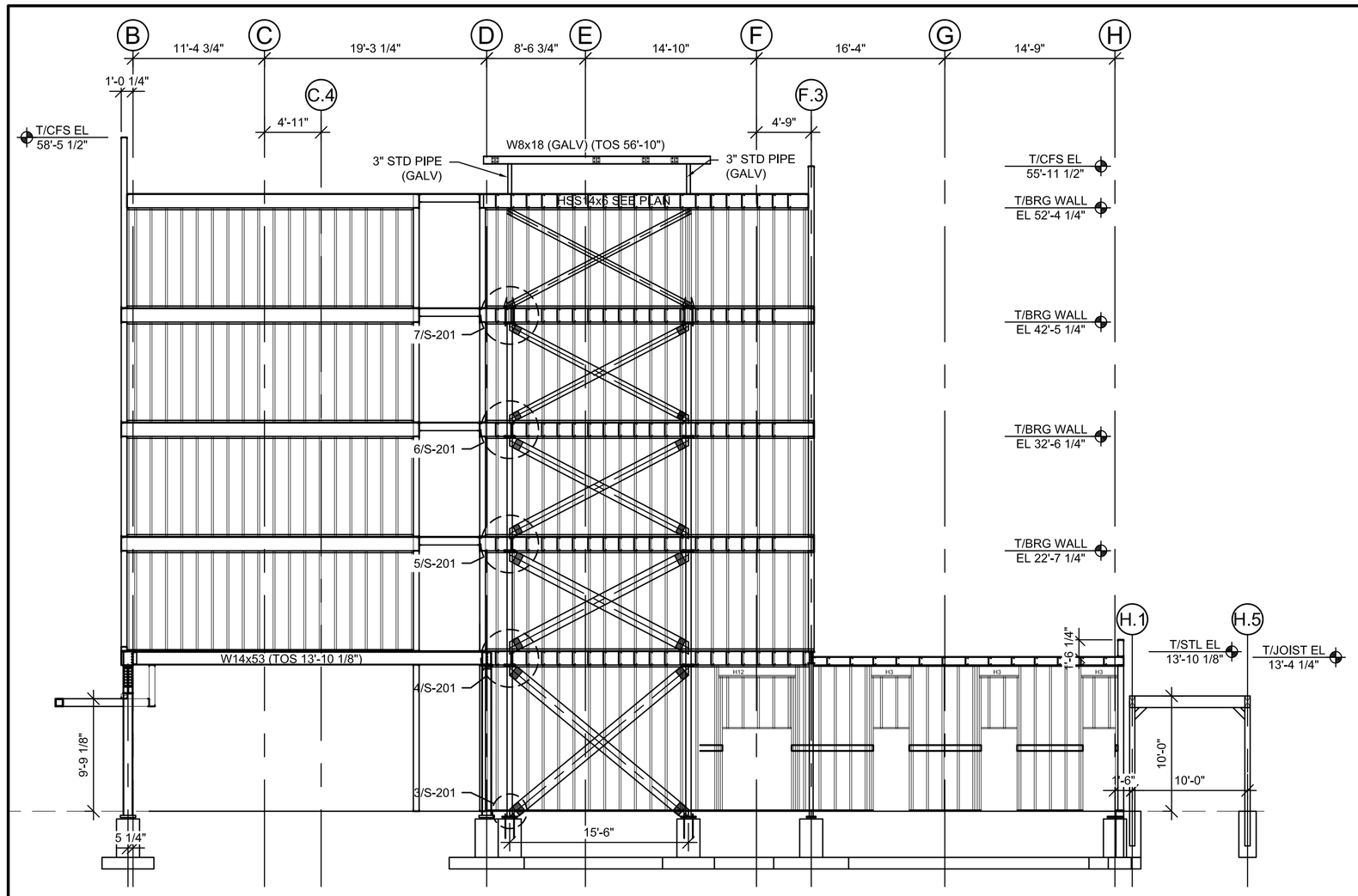
SHEET NUMBER **S202**



1 S203 STRUCTURAL ELEVATION ALONG LINE 10

1/8" = 1'-0"

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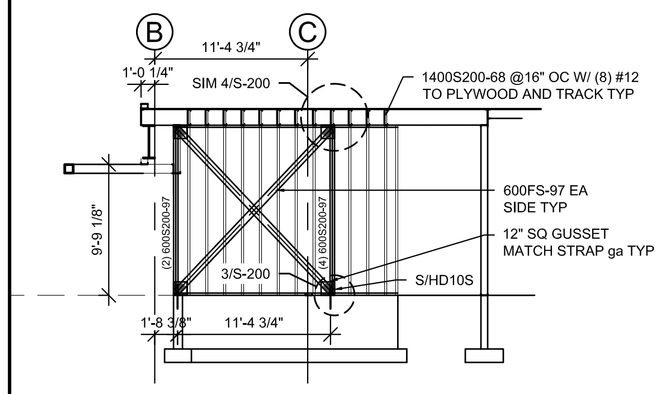
SHEET NUMBER **S203**



1 / S204 12'–0" SHEAR WALL ALONG LINE 9

1/8" = 1'–0"

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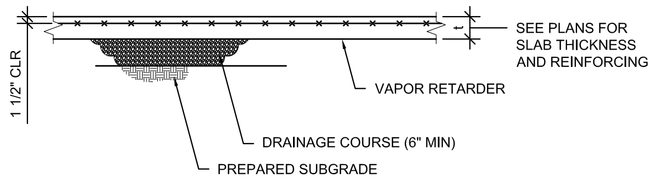
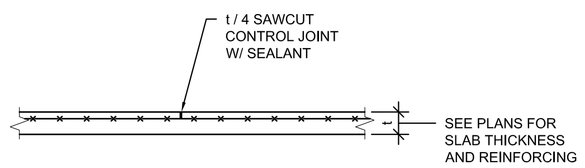
SHEET NUMBER **S204**



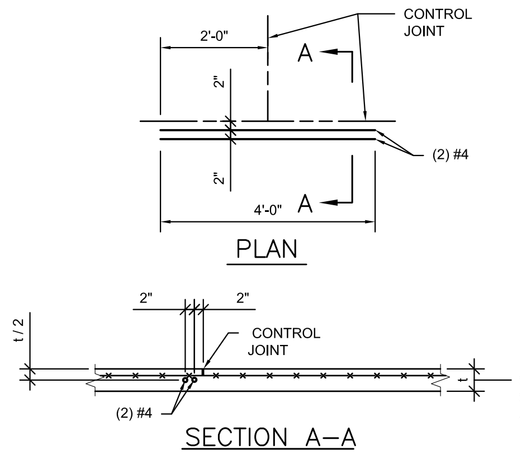
NOTES:
1. SUPPORT REINFORCING ON CHAIRS OR CONCRETE BLOCKS AND LAP REINFORCING AT CONSTRUCTION JOINTS.
2. PROVIDE (2) #4 BARS 4'-0" LONG PLACED AT A DIAGONAL TO CONTROL CRACKING AT INSIDE CORNERS, DOORS, AND AT DISCONTINUOUS CONTROL JOINTS.
3. PROVIDE 1/2" PREFORMED EXPANSION JOINT MATERIAL AT ADJACENT FOUNDATIONS AND AROUND COLUMNS.
4. COORDINATE SLAB FINISHES WITH ARCHITECTURAL DRAWINGS AND PROVIDE NON-SLIP FINISH AND SLOPE FOR DRAINAGE AT ALL EXTERIOR SLABS UON.

14 S500 SLAB ON GRADE
NO SCALE

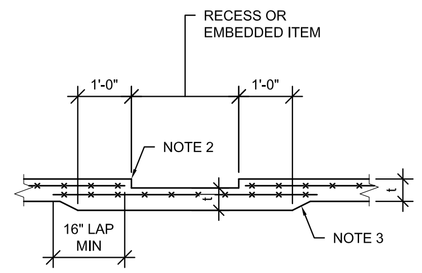


NOTES:
1. DISCONTINUE EVERY OTHER BAR AT CONTROL JOINTS (CUT EVERY OTHER WIRE).
2. SAW CUT OR TOOL THE JOINTS TO A DEPTH OF t / 4 AS SOON AS POSSIBLE AFTER PLACING CONCRETE.
3. PROVIDE JOINT SEALANT PER SPECIFICATIONS.

15 S500 SLAB CONTROL JOINT
NO SCALE

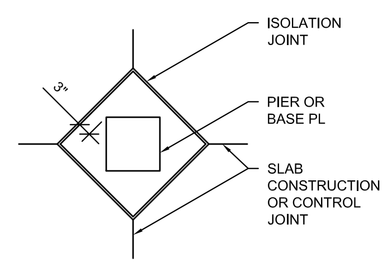


16 S500 DISCONTINUOUS CONTROL JOINT
NO SCALE

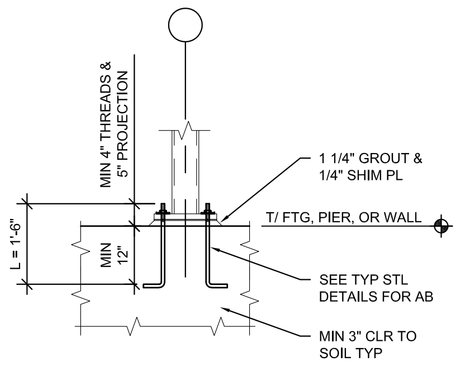


NOTES:
1. MAXIMUM 2" RECESS OR EMBEDDED ITEM. COORDINATE PLAN LOCATION AND DIMENSIONS WITH MANUFACTURER & TRADE INVOLVED.
2. COORDINATE DEPTH AND PROVIDE FRAME INSERT AS REQUIRED PER MANUFACTURER.
3. SLOPE 1 VERTICAL ON 2 HORIZONTAL.

17 S500 SLAB RECESS OR EMBEDMENT
NO SCALE

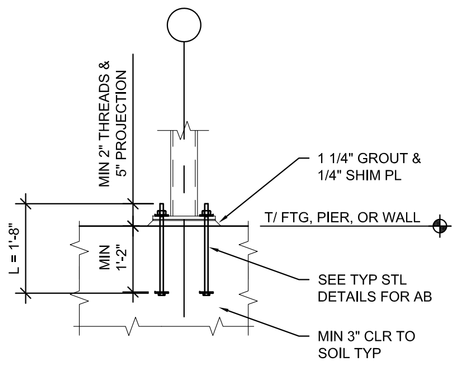


18 S500 SLAB ISOLATION
NO SCALE



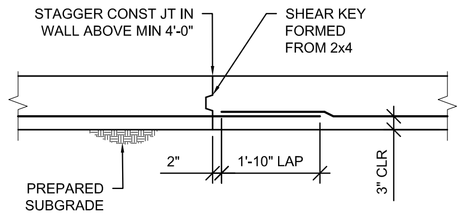
NOTES:
1) USE THIS DETAIL AT HSS UP TO 6x6
2) USE TEMPLATE OR SHIM PL TO ALIGN AB PLAN LAYOUT

9 S500 3/4"x18" HOOKED AB INSTALL
NO SCALE



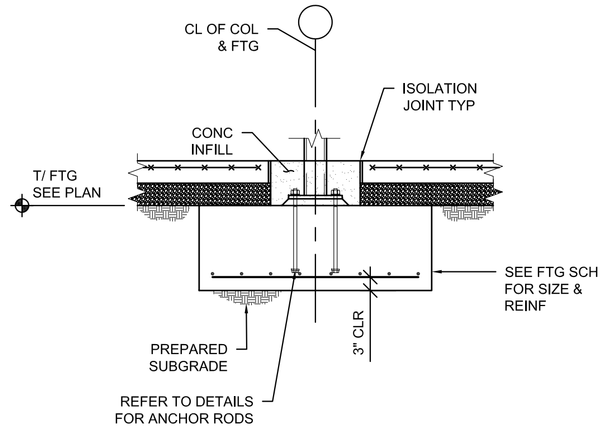
NOTES:
1) USE THIS DETAIL AT WIDE FLANGE COLS AND HSS7x7 AND LARGER
2) USE TEMPLATE OR SHIM PL TO ALIGN AB PLAN LAYOUT

10 S500 3/4"x20" HEADED AB INSTALL
NO SCALE



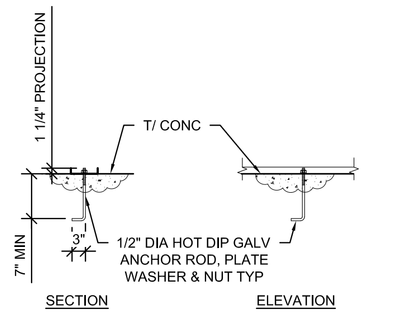
NOTE:
FDN WALL & VERT DWLS (NOT SHOWN)

11 S500 FTG CONSTRUCTION JOINT
NO SCALE



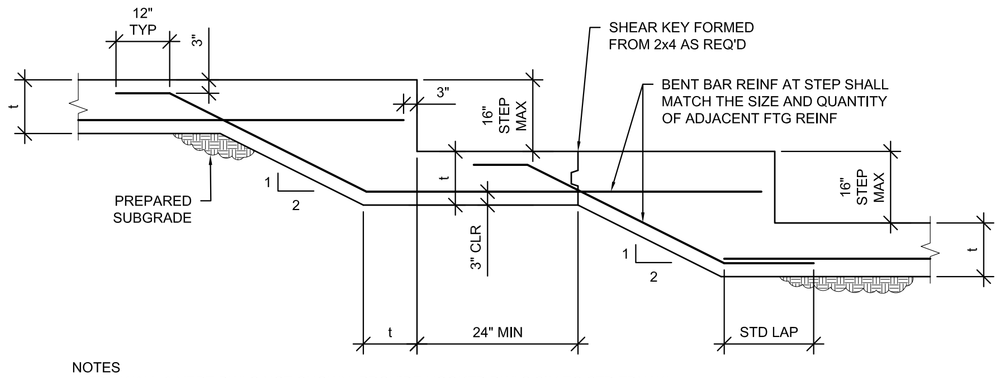
NOTE:
ADJUST FTG THICKNESS AS REQ'D TO MAINTAIN 3" CLR AT AB

12 S500 COL ON ISOLATED FTG
NO SCALE



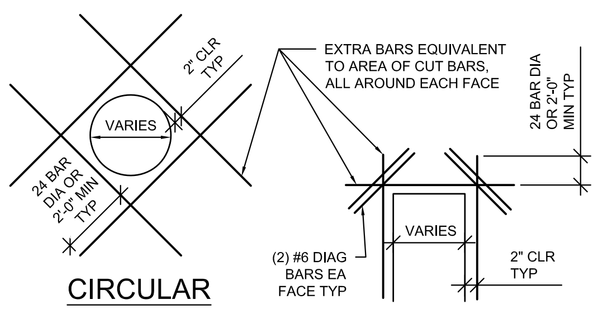
NOTES:
FASTEN BOTTOM TRACK TO FOUNDATION WITH 1/2" DIA GALVANIZED ANCHOR BOLTS AT 4'-0" OC TYPICAL WITH MAXIMUM SPACING OF 6'-0". PROVIDE AT LEAST TWO BOLTS PER PLATE AND LOCATE ANCHOR BOLTS NOT MORE THAN 12" OR LESS THAN 3 1/2" FROM EACH END OF EACH PLATE. PROVIDE 1/4"x3" SQUARE PLATE WASHERS. PROVIDE SILL SEAL AT EXTERIOR WALLS.

13 S500 AB AT CFS WALL
NO SCALE



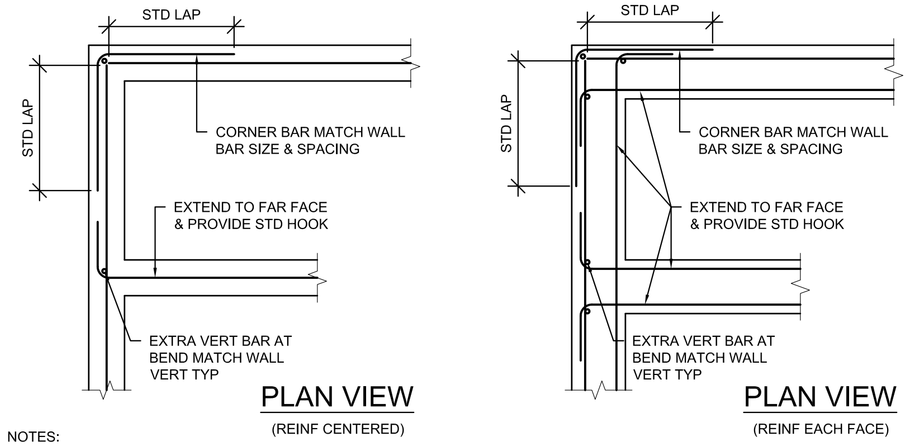
NOTES
1) FDN WALL & VERT DWLS NOT SHOWN. PROVIDE HOOKED DWLS SIM TO STD FDN W/ HOOK SUPPORTED AT LOWEST FTG REINF TYP.
2) PROVIDE STEP SIZE AS REQUIRED. WHERE REQUIRED STEP EXCEEDS THE MAXIMUM PROVIDE STAGGERED STEPS AS SHOWN.
3) PLACE LOWEST FTG FIRST.

6 S500 STEPPED FTG
NO SCALE



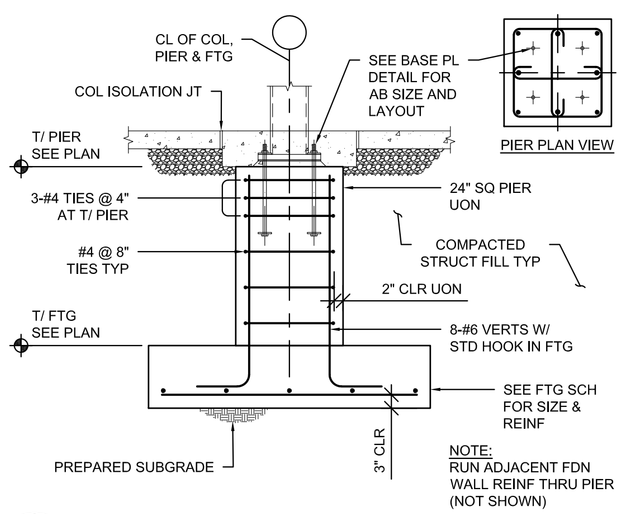
NOTES:
1. DIAGONAL BARS ARE NOT REQ'D FOR 6" DIA OR SMALLER.
2. CONTRACTOR SHALL COORDINATE LOCATION OF ALL PENETRATIONS W/ TRADE INVOLVED.
3. PROVIDE WATER-TIGHT SLEEVE AT BASEMENT AND PIT WALLS.

7 S500 FDN WALL PENETRATION
NO SCALE



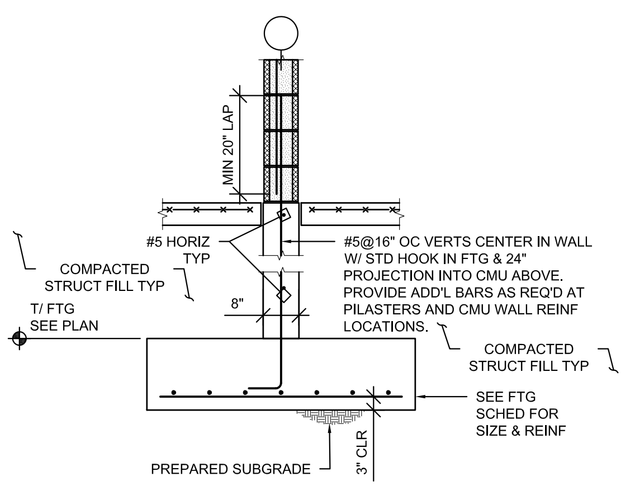
NOTES:
1. WALL VERT BARS NOT SHOWN TYP.
2. FOOTINGS SIMILAR.

8 S500 WALL REINF AT CORNER & "T"
NO SCALE

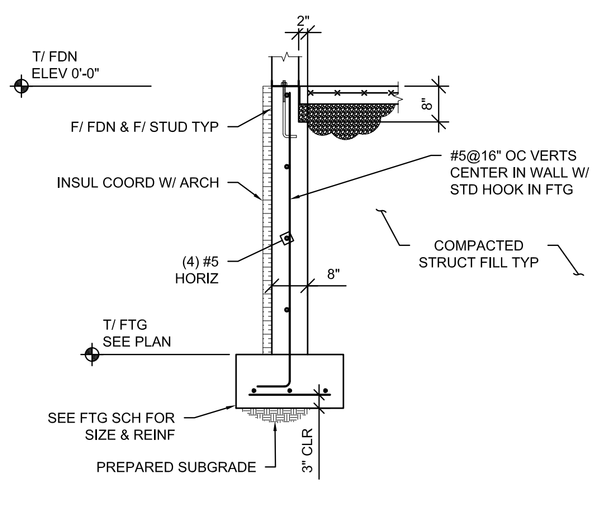


NOTE:
RUN ADJACENT FDN WALL REINF THRU PIER (NOT SHOWN)

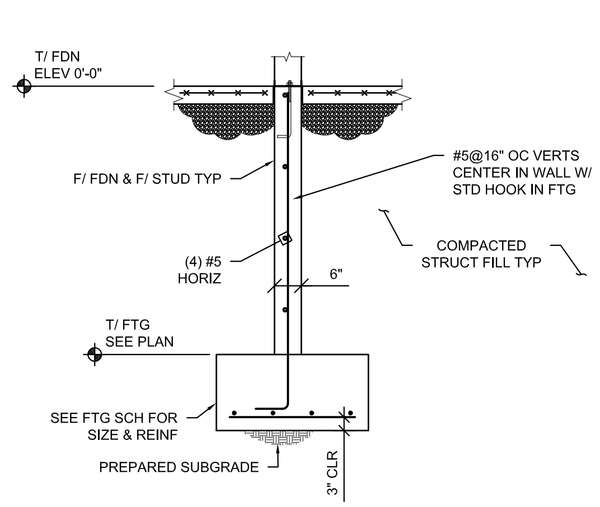
1 S500 24" SQ REINF CONC PIER: P1
NO SCALE



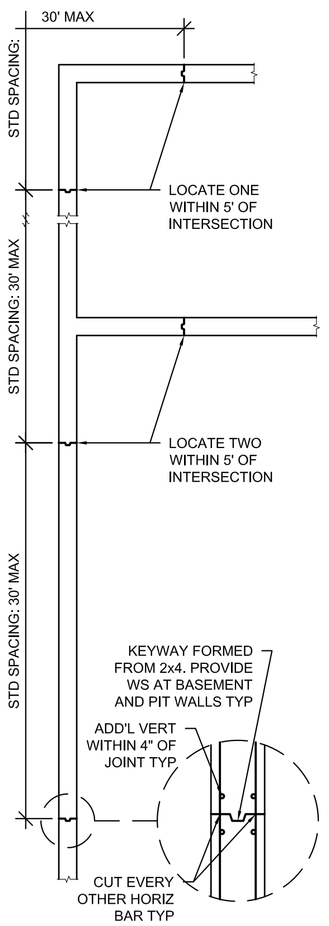
2 S500 TYP FDN WALL AT CMU
NO SCALE



3 S500 TYP 8" FDN WALL & SF 2–0
NO SCALE



4 S500 TYP 6" FDN WALL & SF 2–10
NO SCALE



NOTES:
1. COORDINATE PLAN LOCATIONS WITH MASONRY JOINTS ABOVE. AVOID PILASTERS.

5 S500 FDN WALL JOINTS
NO SCALE

a+e architects, p.c.
7301 Barberry Lane
Manlius, New York 13104
315•415•9988

NKB
N.K. BHANDARI
ARCHITECTURE & ENGINEERING, P.C.
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Syracuse, NY 13204
Phone 315.428.1177
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Turner Road
Woodbury, New York
location #12121

for

RAINBOW ENTERPRISES

4758 Highway 28
Cooperstown, NY

90% SUBMITTAL

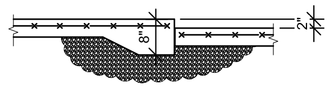
REVISION DATES

DRAWING TITLE
TYPICAL CONCRETE DETAILS

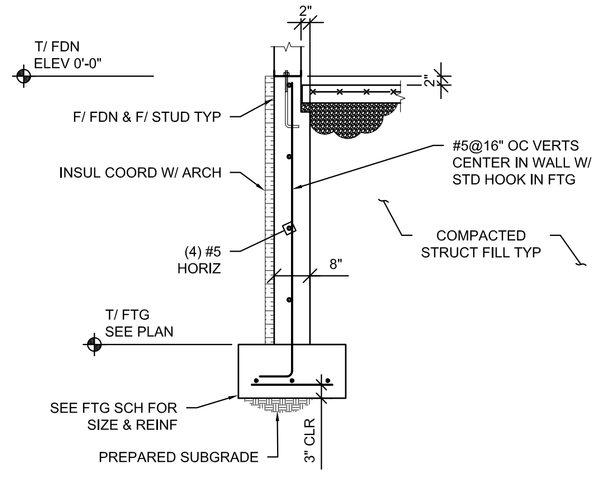
DATE
05-12-2020

PROJECT NUMBER
17971

SHEET NUMBER
S500



1 S501 RECESS SLAB AT POOL
NO SCALE



2 S501 FDN AT POOL RECESS SLAB
NO SCALE

a+e architects, p.c.
7301 Barberry Lane
Manlius, New York 13104
315•415•9988

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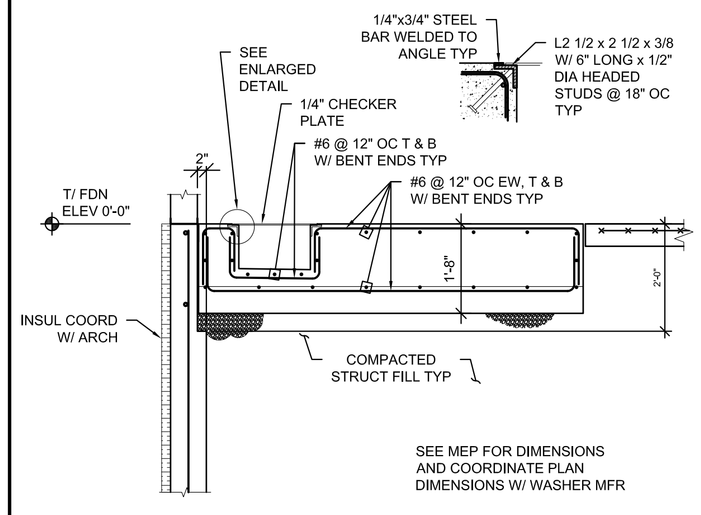
SHEET NUMBER **S501**



1 S502 THICKENED SLAB AT WASHER

NO SCALE

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7301 Barberry Lane
Manlius, New York 13104
315•415•9988

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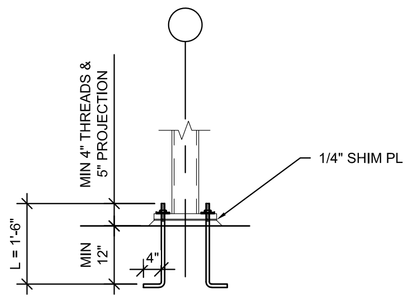
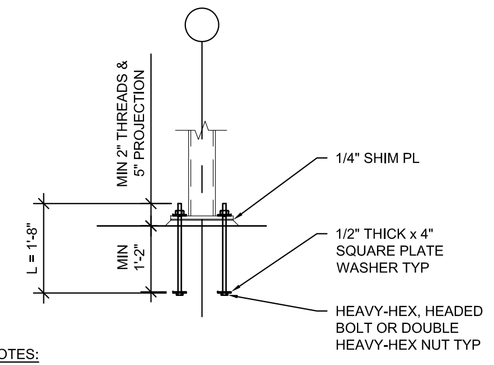
SHEET NUMBER **S502**



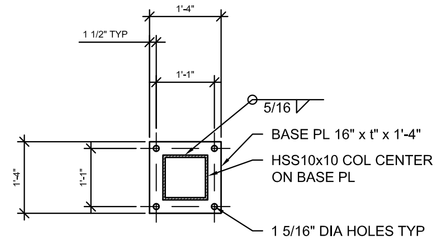
NOTES:
1) ALL ANCHOR BOLTS SHALL BE ASTM F1554 GR55 (WELDABLE).
2) PROVIDE HEAVY HEX NUTS & 1/4" THICK x 3" DIA PLATE WASHERS.
2) USE THIS DETAIL FOR UP TO HSS 6x6.
2) PROVIDE SHIM PLATE WITH AB's TO USE AS TEMPLATE TO ALIGN AB PLAN LAYOUT.

12 / S503 3/4"x18" HOOKED AB
NO SCALE



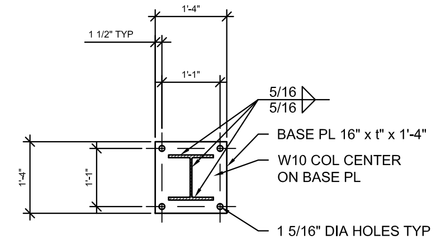
NOTES:
1) ALL ANCHOR BOLTS SHALL BE ASTM F1554 GR55 (WELDABLE).
2) PROVIDE HEAVY HEX NUTS & 1/4" THICK x 3" DIA PLATE WASHERS.
2) USE THIS DETAIL FOR WIDE FLANGE AND HSS 7x7 AND LARGER.
2) PROVIDE SHIM PLATE WITH AB's TO USE AS TEMPLATE TO ALIGN AB PLAN LAYOUT.

13 / S503 3/4"x20" HEADED AB
NO SCALE



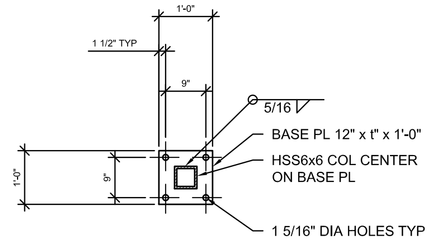
NOTE:
1) SEE COL SCHED FOR COL SIZE & BASE PLATETHICKNESS, t.
2) PROVIDE 3/4" DIAMETER AB's.
3) PROVIDE MATCHING 1/4" THICK LEVELING PLATE WITH 13/16" DIA HOLES.

8 / S503 TYPE "A" BASE PLATE
NO SCALE



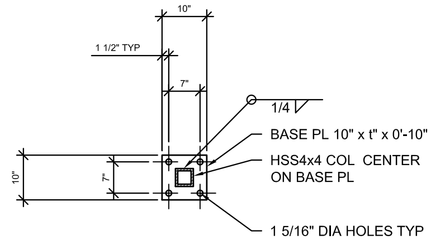
NOTE:
1) SEE COL SCHED FOR COL SIZE & BASE PLATETHICKNESS, t.
2) PROVIDE 3/4" DIAMETER AB's.
3) PROVIDE MATCHING 1/4" THICK LEVELING PLATE WITH 13/16" DIA HOLES.

9 / S503 TYPE "B" BASE PLATE
NO SCALE



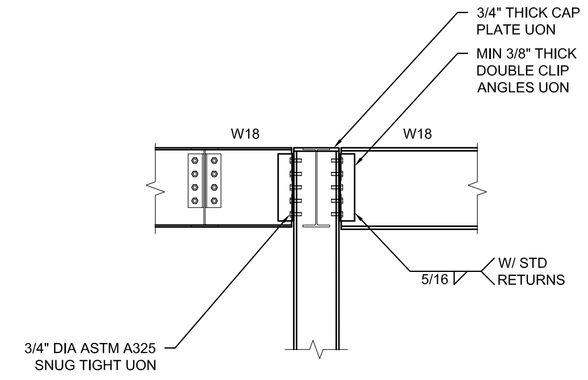
NOTE:
1) SEE COL SCHED FOR COL SIZE & BASE PLATETHICKNESS, t.
2) PROVIDE 3/4" DIAMETER AB's.
3) PROVIDE MATCHING 1/4" THICK LEVELING PLATE WITH 13/16" DIA HOLES.

10 / S503 TYPE "C" BASE PLATE
NO SCALE

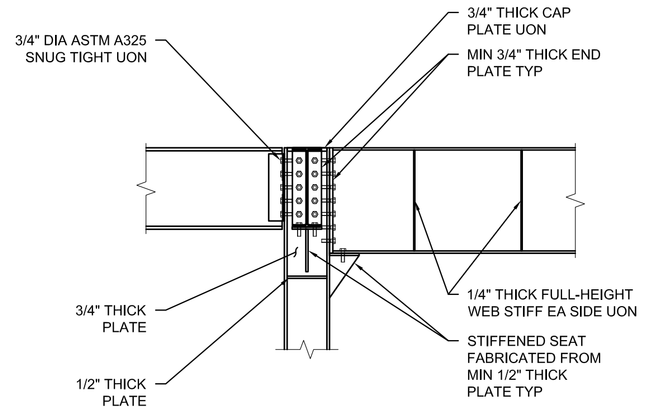


NOTE:
1) SEE COL SCHED FOR COL SIZE & BASE PLATETHICKNESS, t.
2) PROVIDE 3/4" DIAMETER AB's.
3) PROVIDE MATCHING 1/4" THICK LEVELING PLATE WITH 13/16" DIA HOLES.

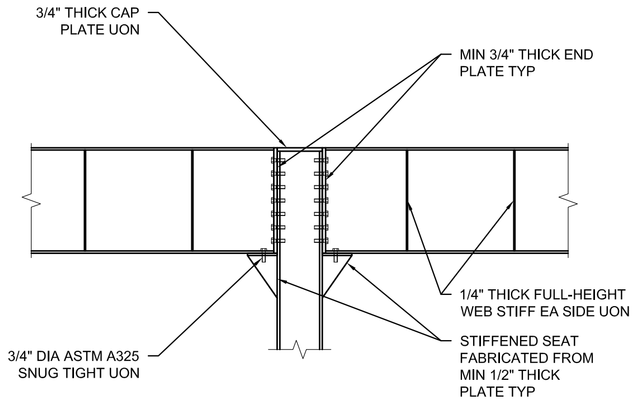
11 / S503 TYPE "D" BASE PLATE
NO SCALE



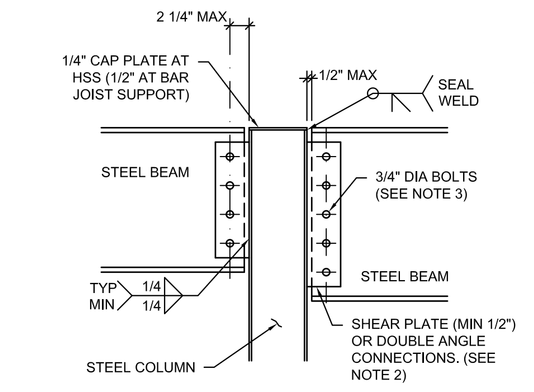
5 / S503 SIMPLE CONNECTIONS
NO SCALE



6 / S503 SIMPLE & MOMENT CONNECTIONS
NO SCALE

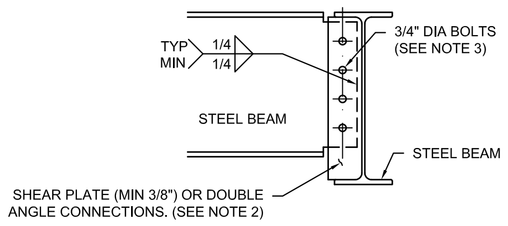


7 / S503 MOMENT CONNECTION
NO SCALE



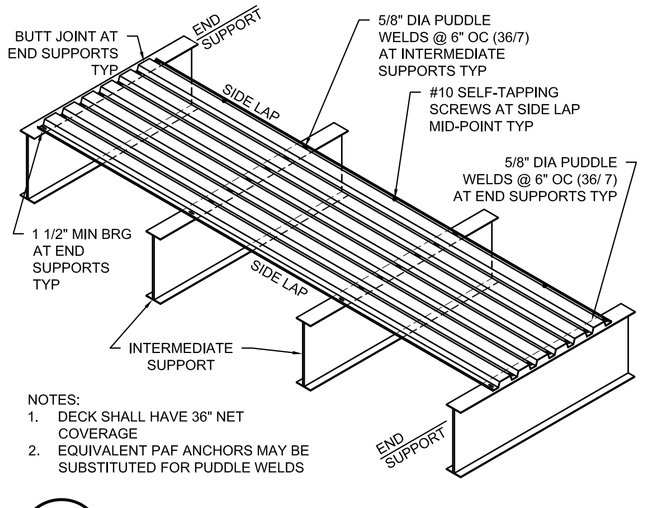
A. SIMPLE BEAM (COLUMN)

NOTES
1. INTENT OF THESE DETAILS IS TO PROVIDE TYPICAL FRAMING INFORMATION FOR CONDITIONS NOT SPECIFICALLY COVERED BY SPECIFIC SECTIONS OR DETAILS ELSEWHERE.
2. USE SHEAR PLATES WITH MOMENT CONNECTIONS. USE DOUBLE ANGLE OR THRU SHEAR PLATES CONNECTIONS FOR ALL OTHER PERIMETER COLUMN LOCATIONS. SHEAR PLATES WELDED TO WEB OF BEAM TO BE 5/8" THICK FOR W27 BEAMS AND LARGER.
3. DESIGN CONNECTIONS IN ACCORDANCE WITH AISC FOR REACTIONS INDICATED ON PLANS UNLESS OTHERWISE NOTED. WHERE REACTIONS ARE NOT SHOWN, THE CONNECTION SHALL BE DESIGNED FOR 60% OF THE TOTAL ALLOWABLE UNIFORM LOAD ON THE SPAN PER THE LATEST EDITION OF THE AISC MANUAL OR 6 kips, WHICHEVER IS LARGER, PROVIDE AT LEAST AS MANY BOLTS AS SHOWN ON THE SECTIONS AND DETAILS.



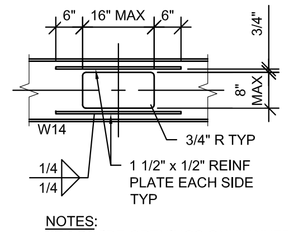
B. SIMPLE BEAM (MID BEAM)

4 / S503 TYP STEEL FRAMING DETAILS
NO SCALE



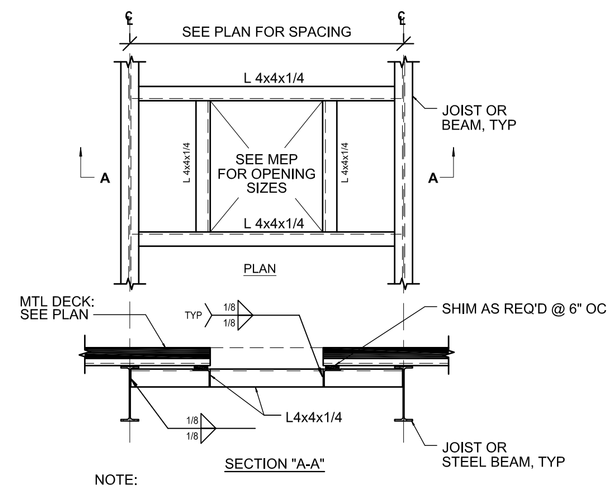
NOTES:
1. DECK SHALL HAVE 36" NET COVERAGE
2. EQUIVALENT PAF ANCHORS MAY BE SUBSTITUTED FOR PUDDLE WELDS

1 / S503 TYP ROOF DECK ATTACHMENT
NO SCALE



NOTES:
1) PROVIDE OPENINGS ONLY WHERE SHOWN ON THE PLANS OR APPROVED IN WRITING BY EOR.
2) ALIGN WEB OPENING ON BEAM CL AT MID-SPAN.

2 / S503 REINF AT BEAM WEB OPENING
NO SCALE



SECTION "A-A"

NOTE:
1. COORDINATE OPENING SIZE AND LOCATIONS WITH MECHANICAL DRAWINGS

3 / S503 REINF AT ROOF OPENING
NO SCALE

a+e architects, p.c.
7301 Barberry Lane
Manlius, New York 13104
315•415•9988

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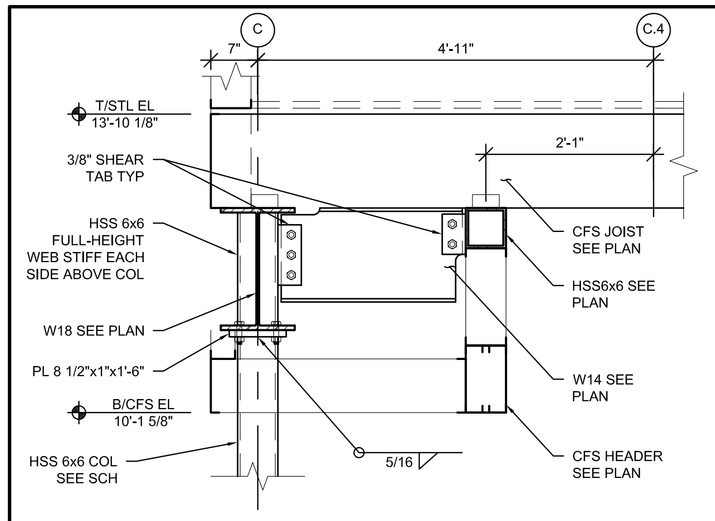
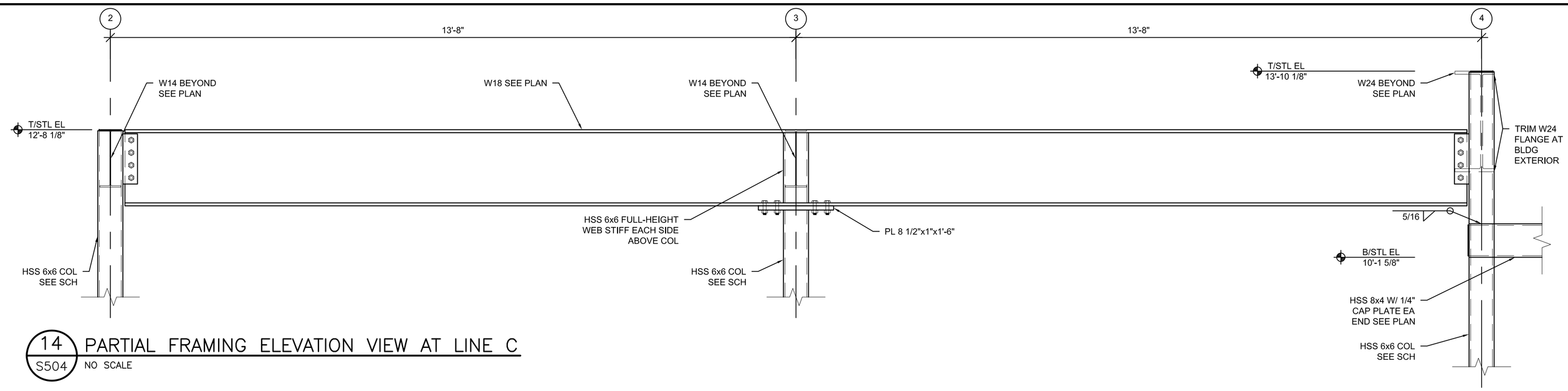
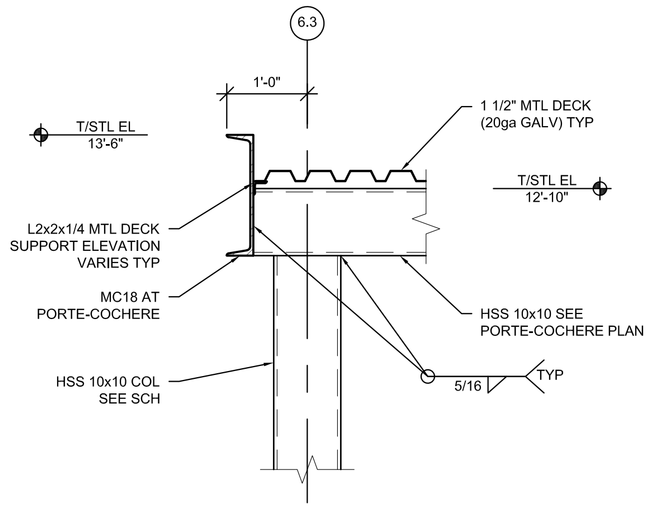


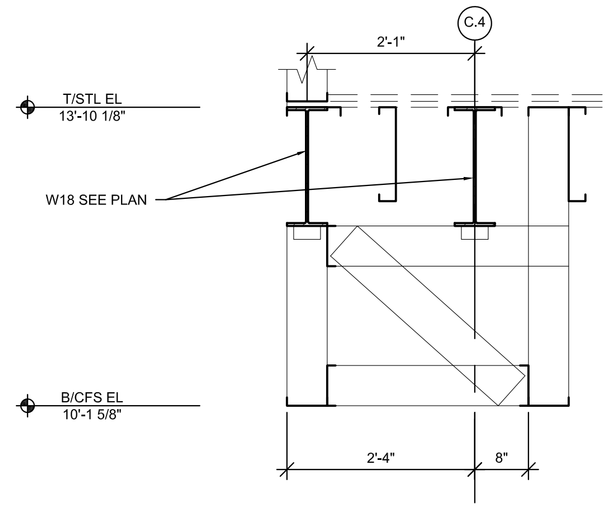
13 S504 SECTION AT C/3
NO SCALE



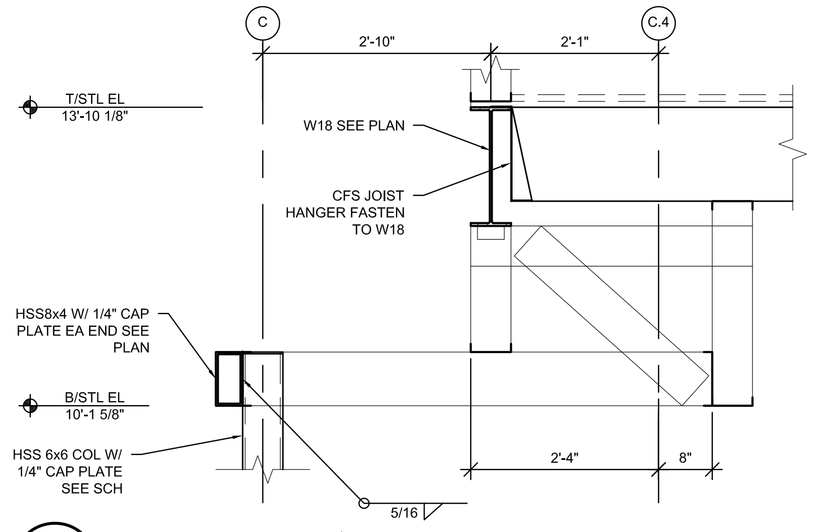
14 S504 PARTIAL FRAMING ELEVATION VIEW AT LINE C
NO SCALE



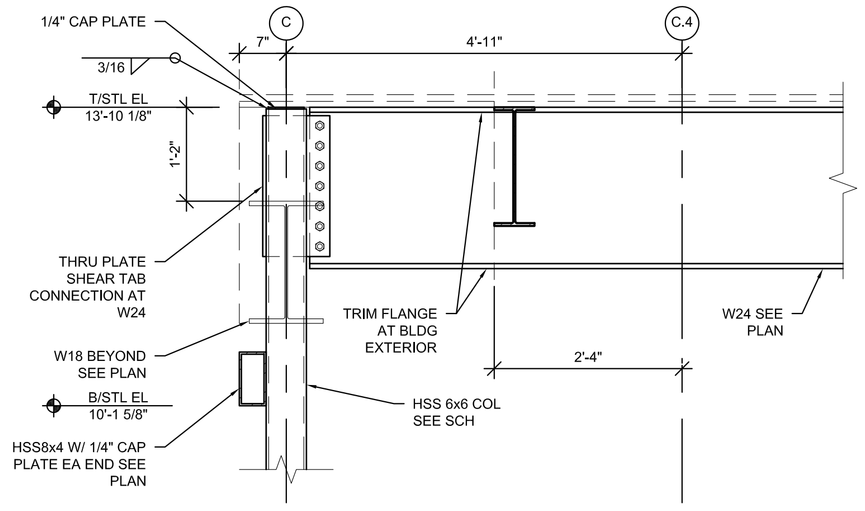
9 S504 SECTION AT PORTE–COCHERE
NO SCALE



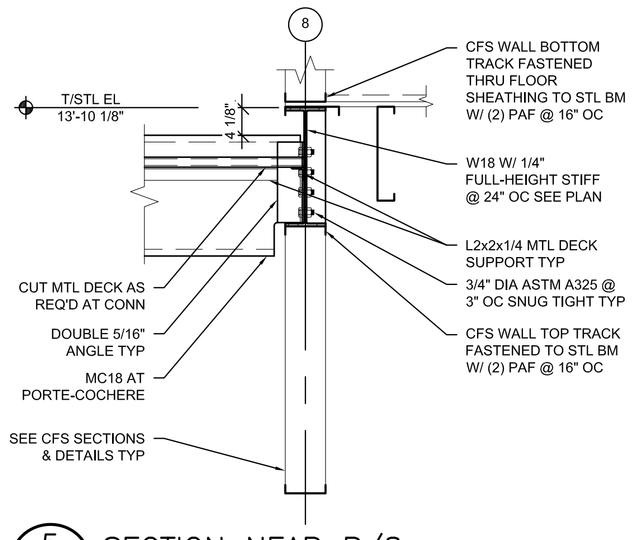
10 S504 SECTION ALONG C.4 LINE
NO SCALE



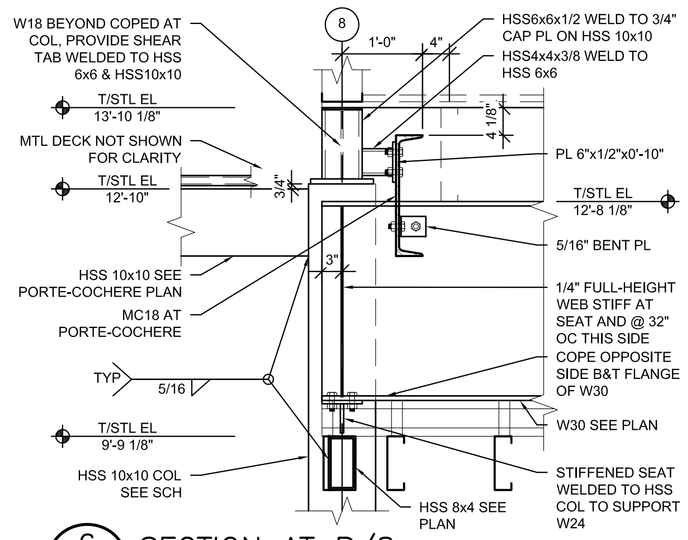
11 S504 SECTION AT C/5
NO SCALE



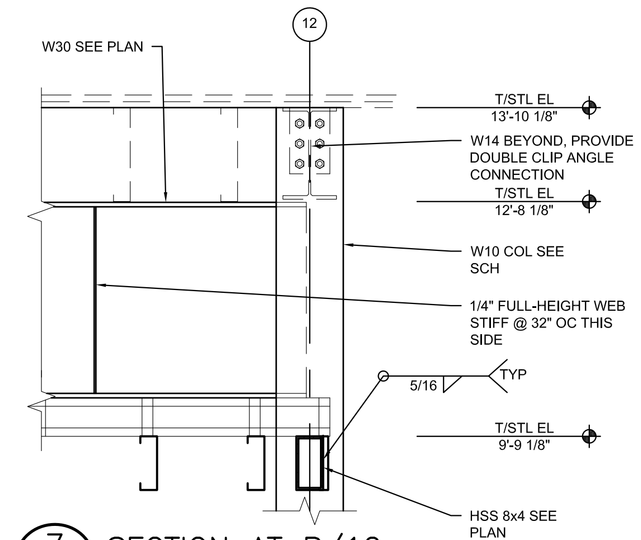
12 S504 SECTION AT C/4
NO SCALE



5 S504 SECTION NEAR B/8
NO SCALE



6 S504 SECTION AT B/8
NO SCALE



7 S504 SECTION AT B/12
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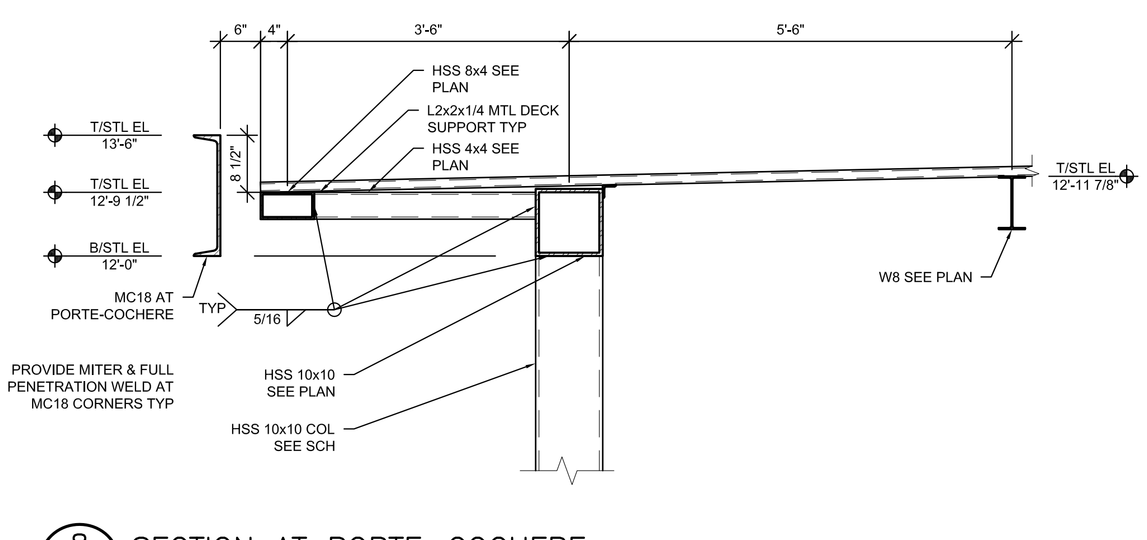
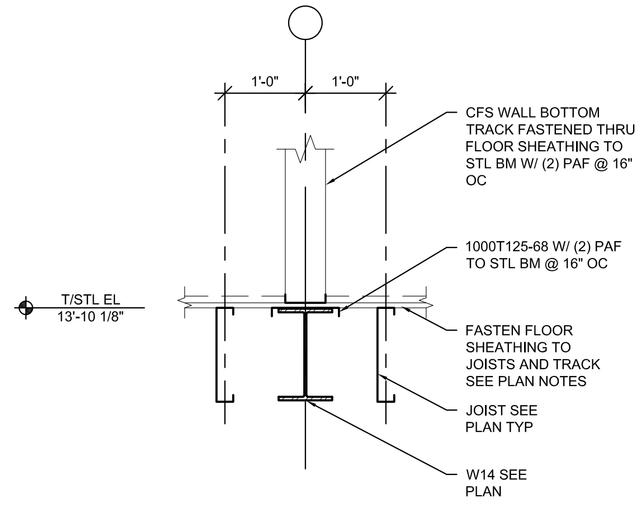
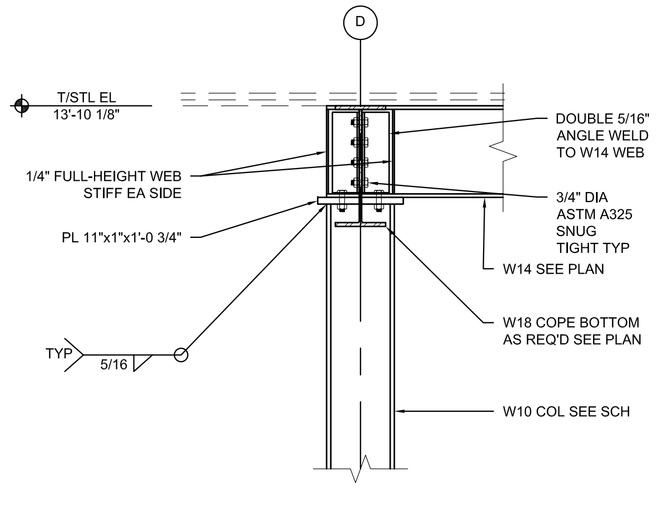


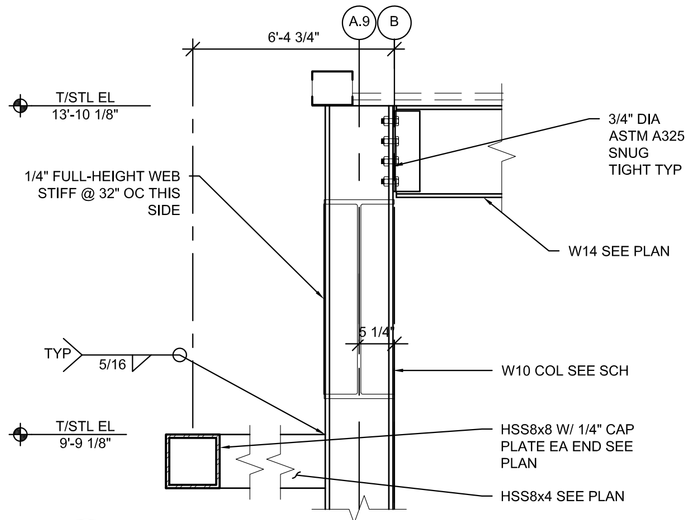
8 S504 SECTION AT PORTE–COCHERE
NO SCALE



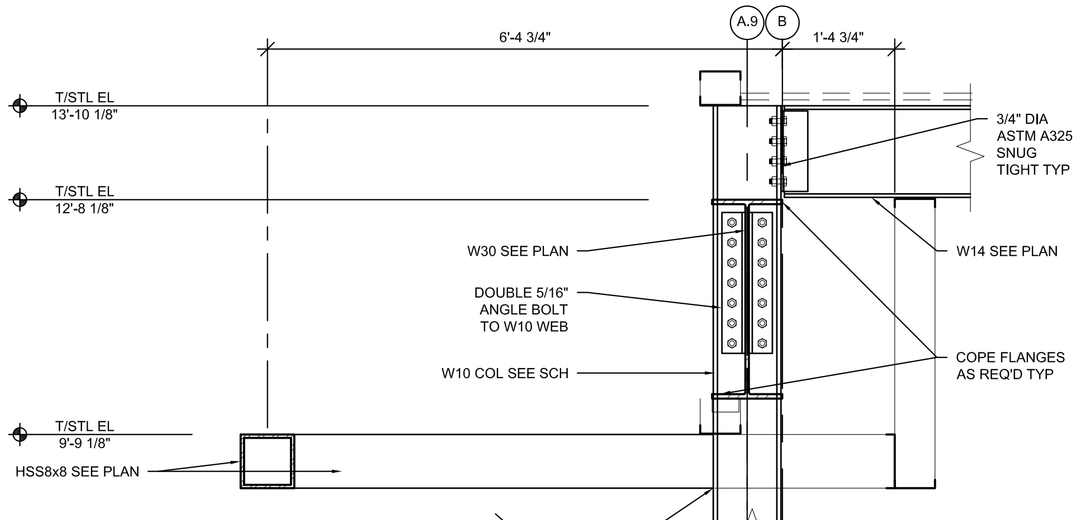
1 S504 SECTION AT INTERIOR STL BM
NO SCALE



2 S504 BEAM TO COL CONNECTION
NO SCALE



3 S504 CANOPY AT LINE 12
NO SCALE



4 S504 CANOPY AT LINE 10
NO SCALE

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7301 Barberry Lane
Manlius, New York 13104
315·415·9988

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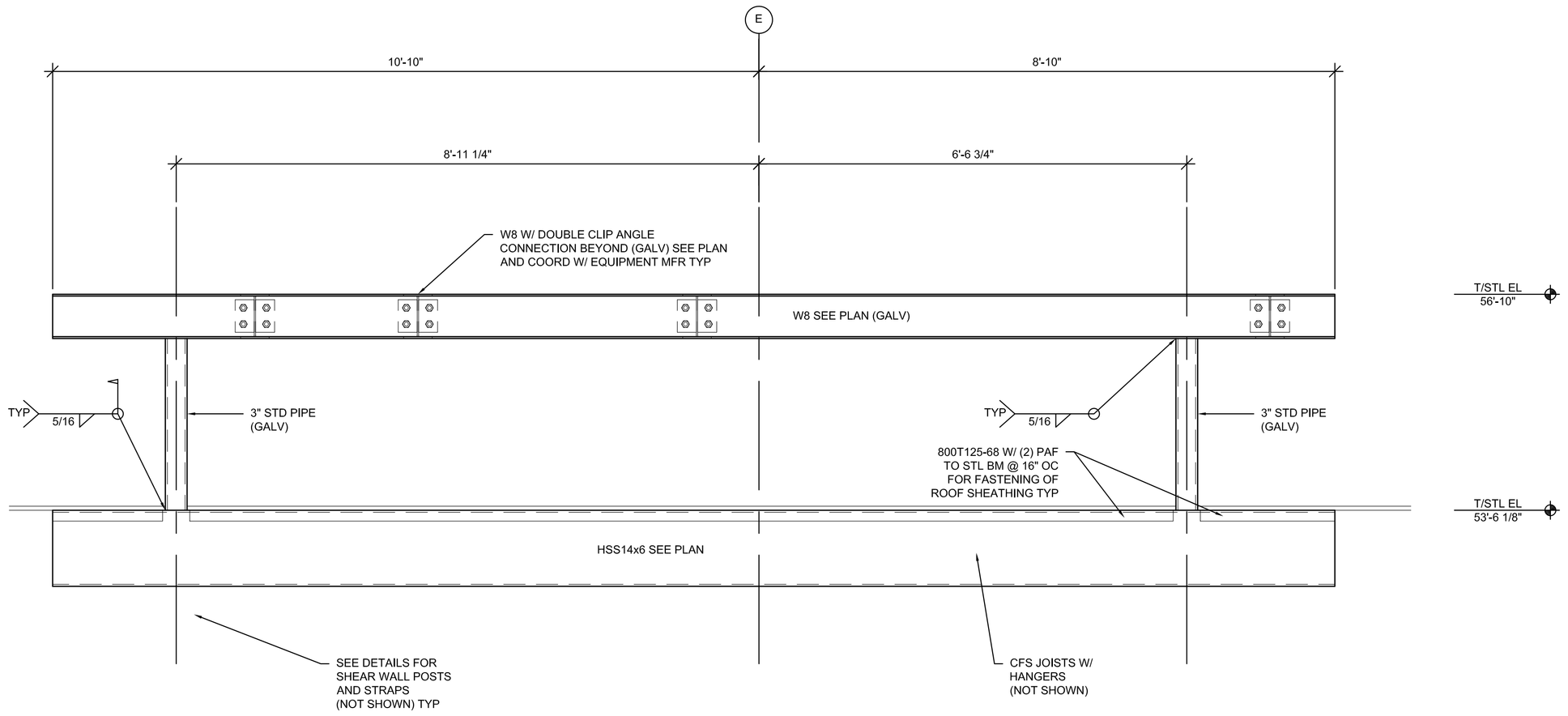
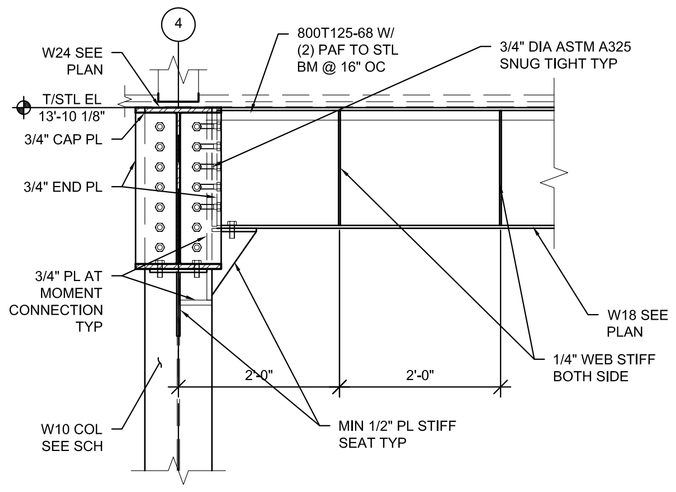
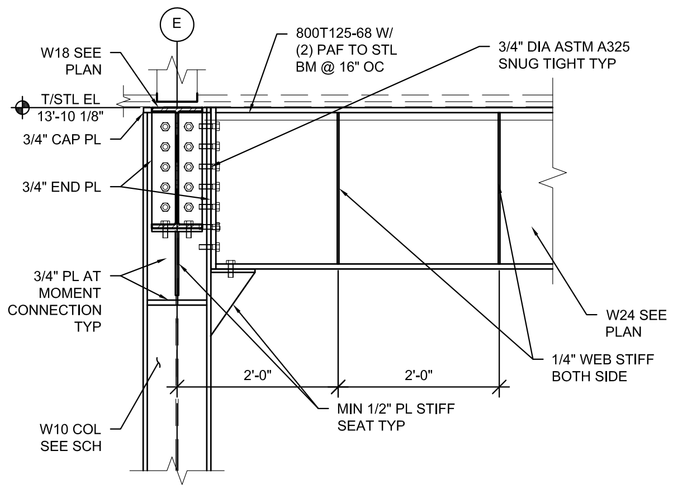


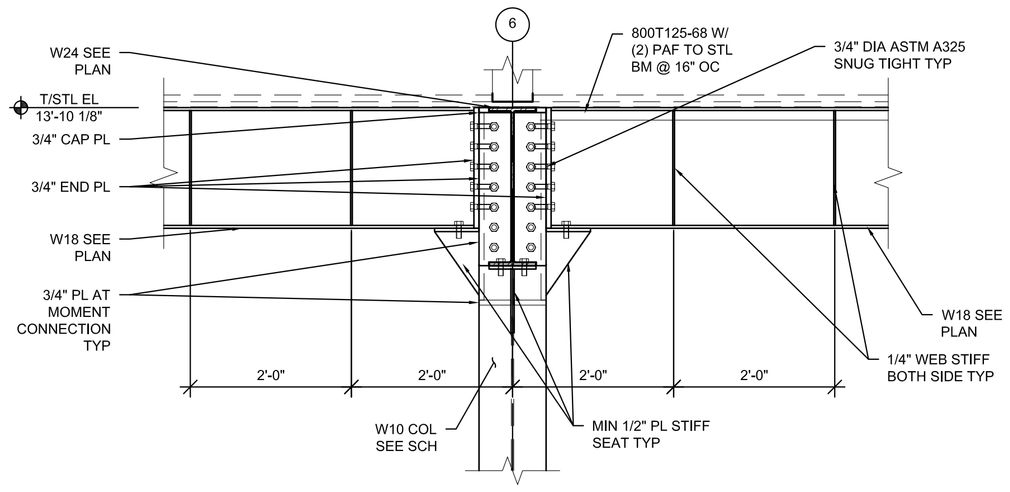
9 S506 SECTION AT ROOF FRAME
NO SCALE



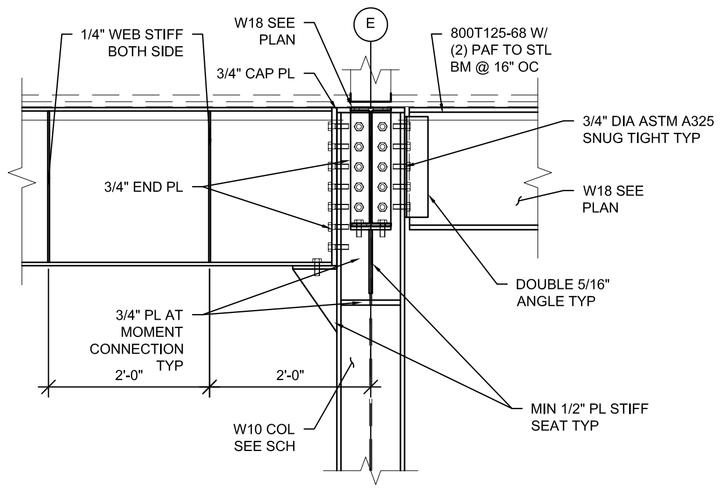
5 S505 SECTION AT E/4
NO SCALE



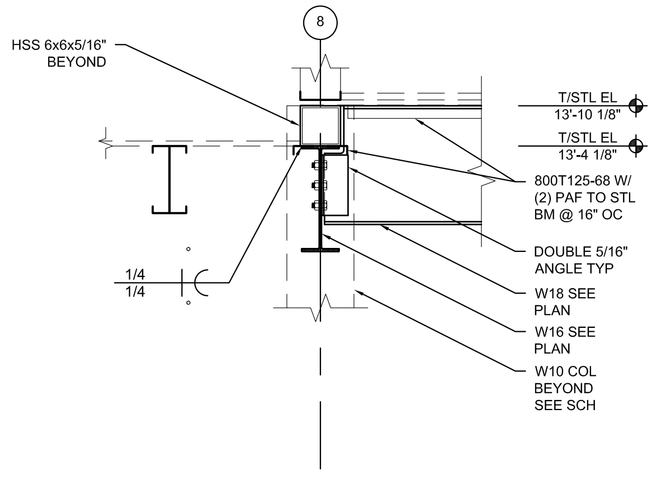
6 S505 SECTION AT E/4
NO SCALE



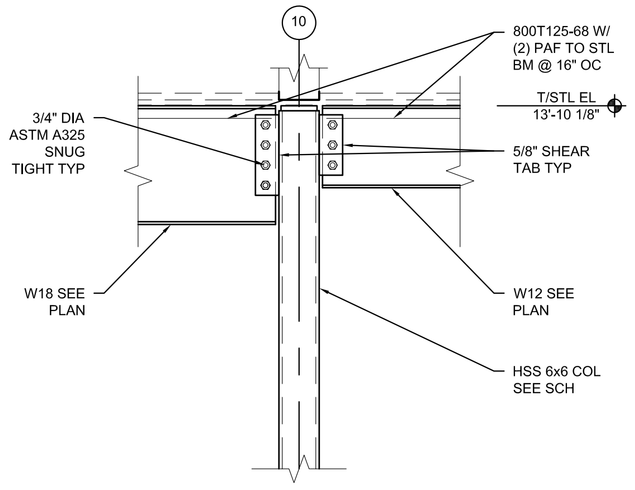
7 S505 SECTION AT E/6
NO SCALE



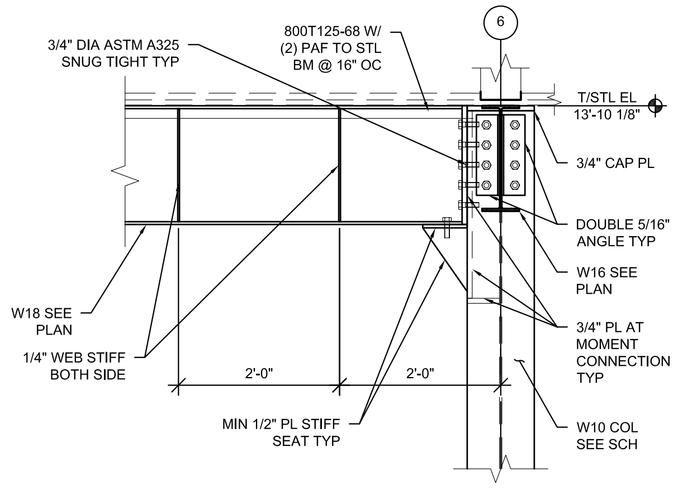
8 S505 SECTION AT E/8
NO SCALE



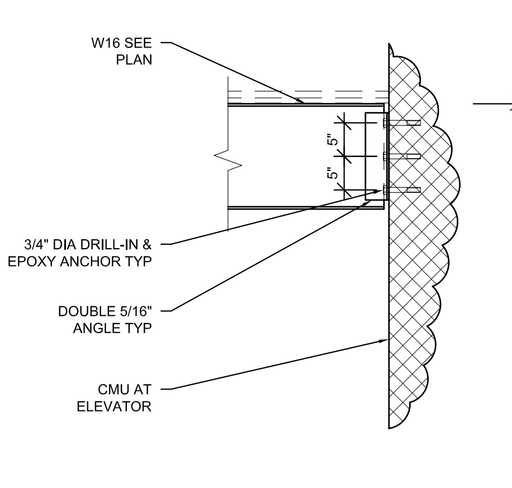
1 S505 SECTION AT LOW ROOF
NO SCALE



2 S505 SECTION AT LINE 10
NO SCALE



3 S505 SECTION AT LINE 6
NO SCALE



4 S505 SECTION AT CMU
NO SCALE

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Manlius, New York 13104
315•415•9988

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DATE
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PROJECT NUMBER
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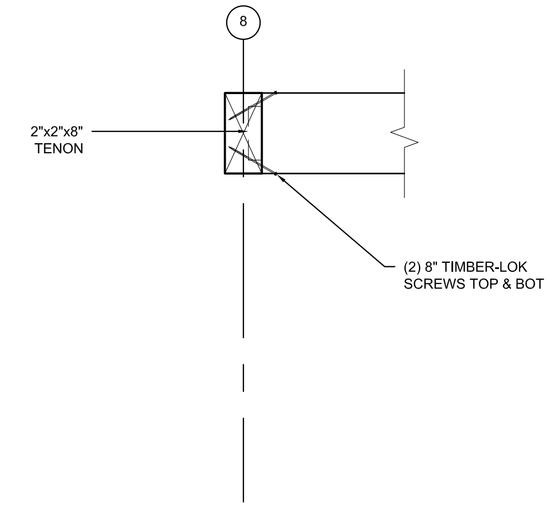
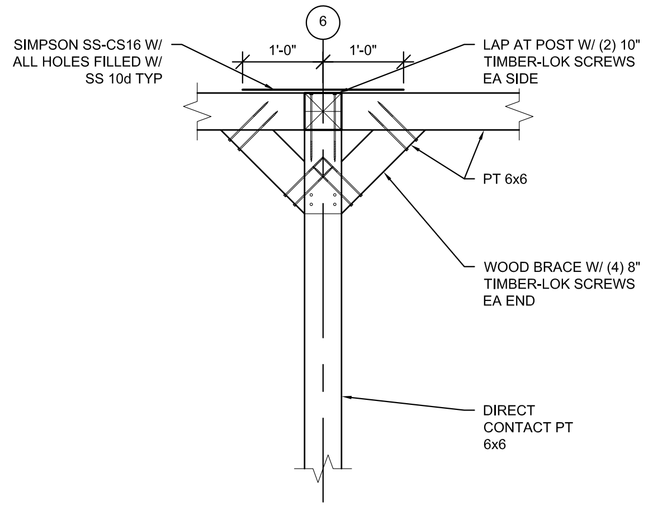
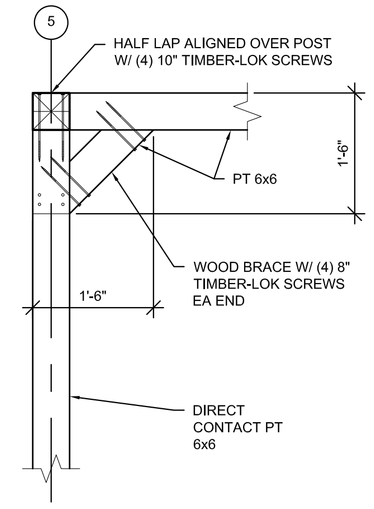
SHEET NUMBER
S505



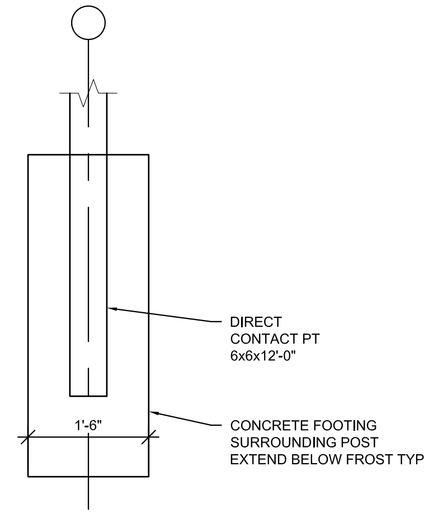
4 S506 SECTION AT LINE 8
NO SCALE



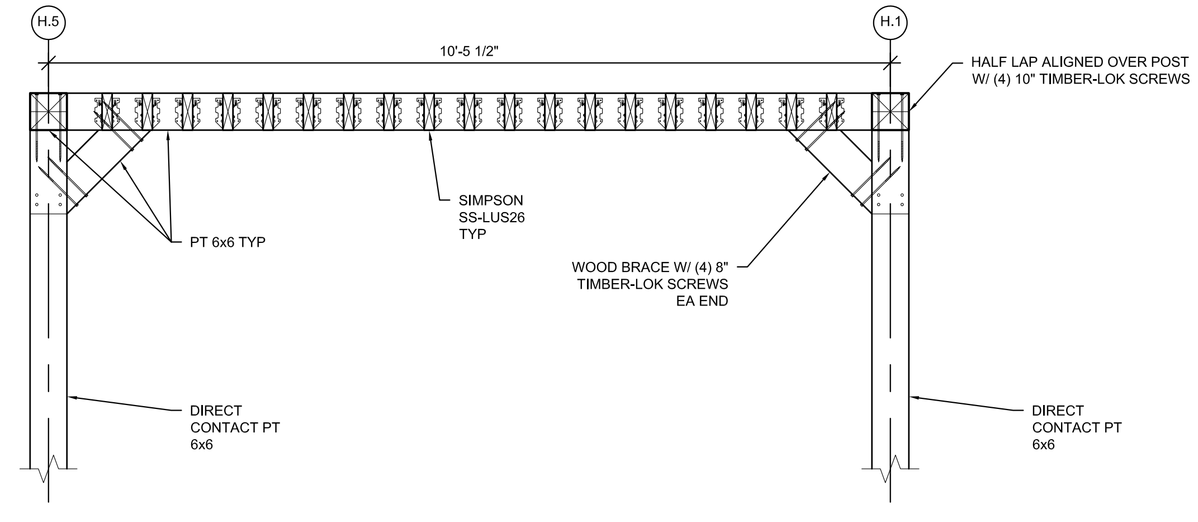
5 S506 SECTION AT H.5/6
NO SCALE



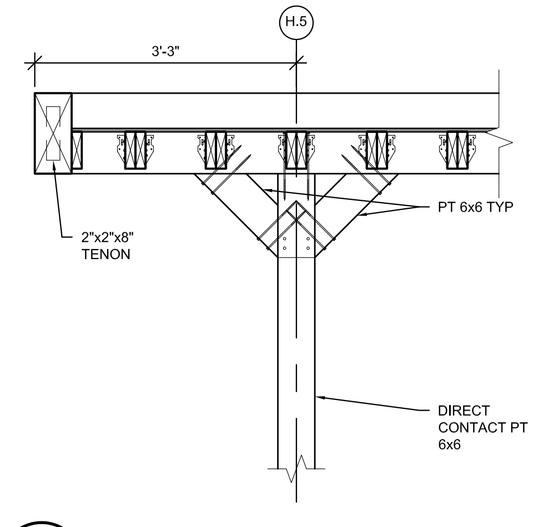
6 S506 SECTION AT H.5/5
NO SCALE



1 S506 PT POST FDN
NO SCALE



2 S506 SECTION AT LINE 11
NO SCALE



3 S506 SECTION AT CANTILEVER
NO SCALE

a+e architects, p.c.
7301 Barberry Lane
Manlius, New York 13104
315•415•9988

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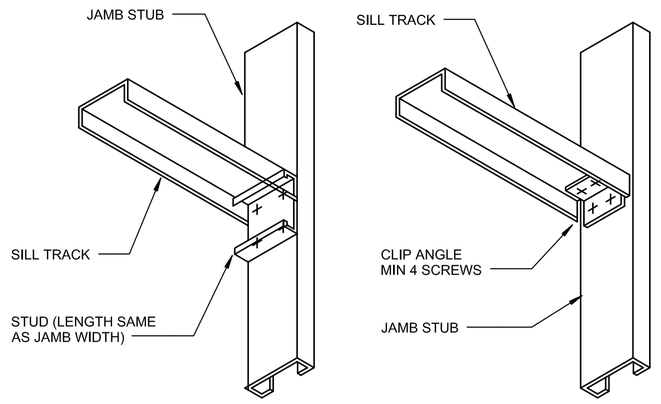
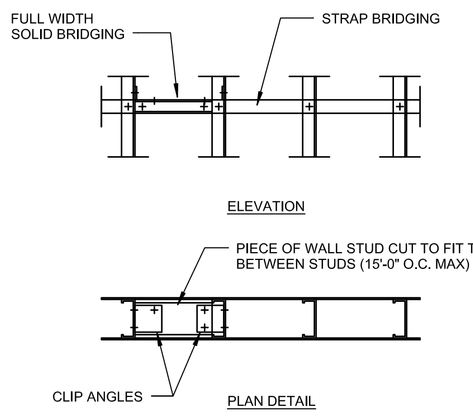


NOTES:
1. FOR OPENINGS GREATER THAN 6'-0" USE BOX HEADER AT SILL SAME AS HEAD OF WINDOW. SEE DETAIL 7.

8 / S507 WINDOW SILL
NO SCALE

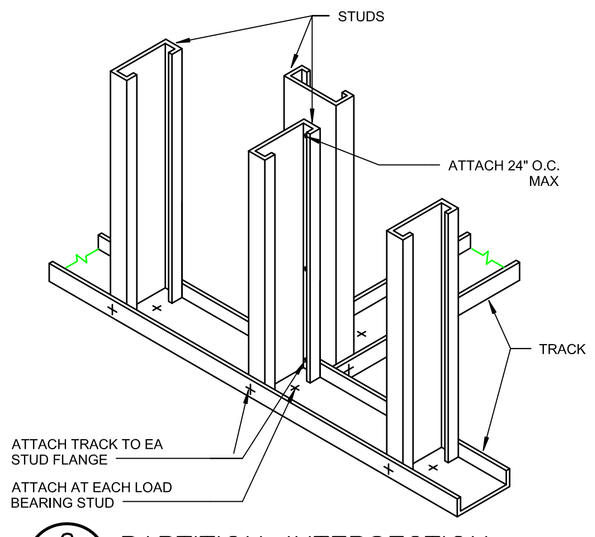
COLD FORMED STEEL POST SCHEDULE

MARK	STUDS	TRACK	REMARKS
CFS P1	(2) 600S200-97	N/A	BACK TO BACK W/ (2) #12 @ 12" OC
CFS P2	(4) 600S200-110	(2) 800T125-54	

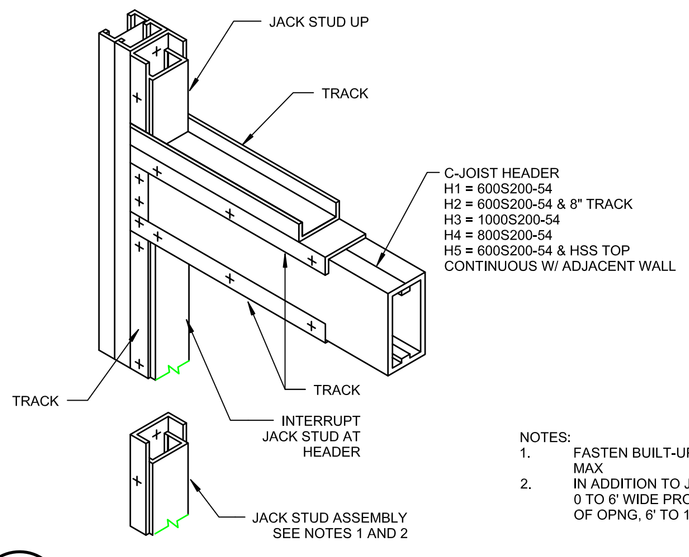


NOTE: STRAP BRIDGING AT 4'-0" O.C. MAX. VERTICALLY. ATTACH ENDS OF STRAP BRIDGING TO JAMB STUD, SOLID BRIDGING, OR BUILDING STRUCTURE.

5 / S507 BRIDGING
NO SCALE

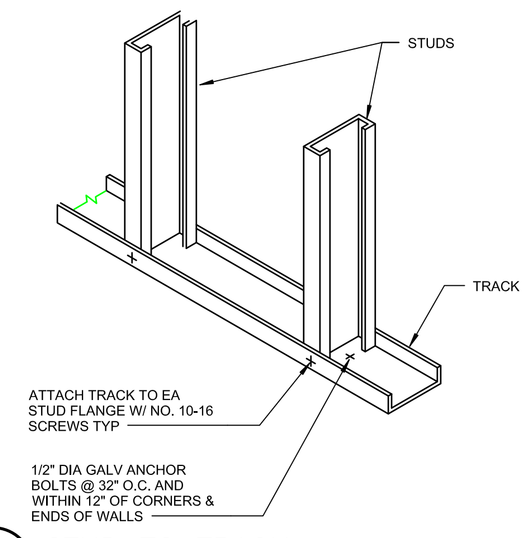


6 / S507 PARTITION INTERSECTION
NO SCALE

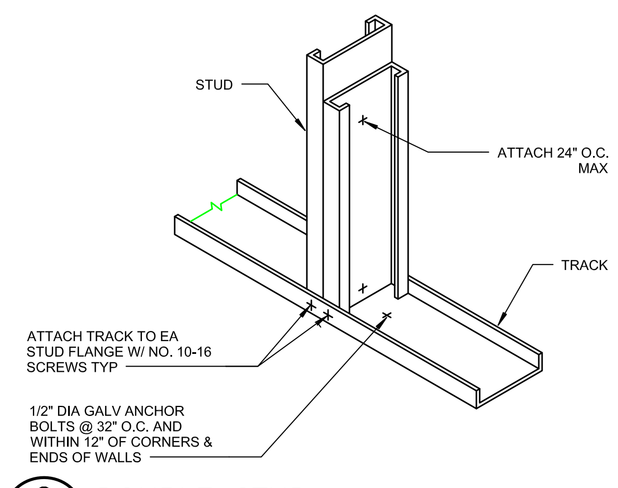


NOTES:
1. FASTEN BUILT-UP MEMBERS TOGETHER AT 12" O.C. MAX
2. IN ADDITION TO JACK STUD ASSEMBLY, FOR OPENING 0 TO 6' WIDE PROVIDE 2 FULL HEIGHT STUDS EA SIDE OF OPNG, 6' TO 10' - 3 STUDS, OVER 10' - 4 STUDS

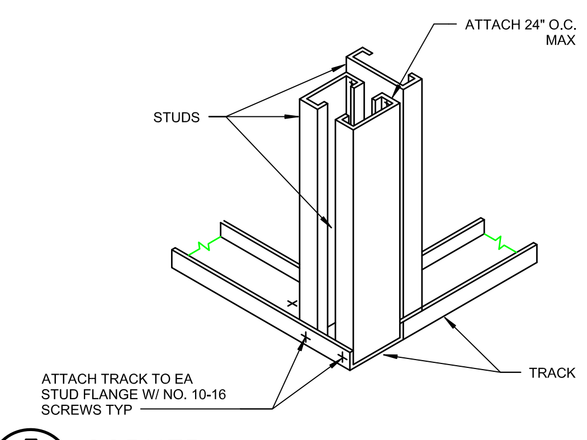
7 / S507 BOX HEADER
NO SCALE



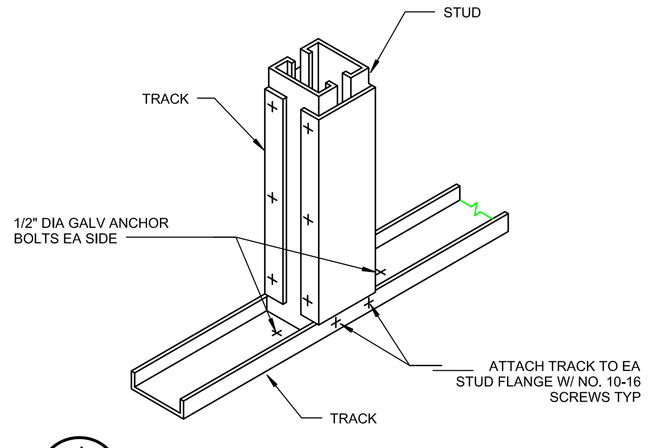
1 / S507 STUD TO TRACK
NO SCALE



2 / S507 DOUBLE STUD
NO SCALE



3 / S507 CORNER
NO SCALE



4 / S507 BUILT-UP POST
NO SCALE

NOTES:

1. SEE S511 COLD-FORMED STEEL HEADER SCHEDULE AND REQUIREMENTS.

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7301 Barberry Lane
Manlius, New York 13104
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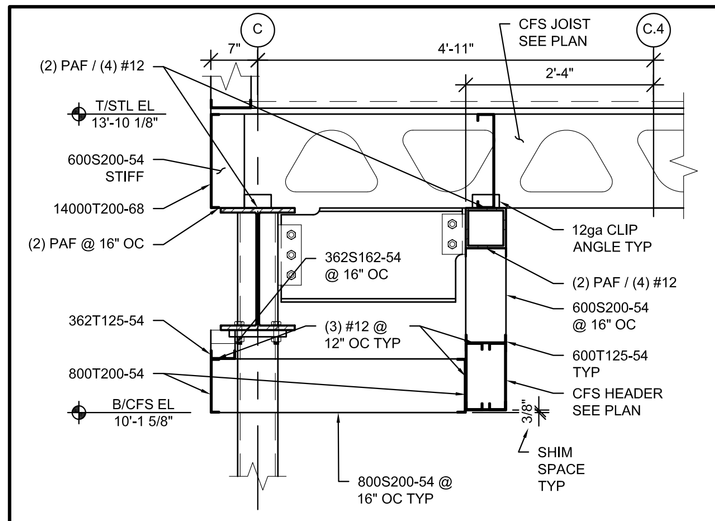
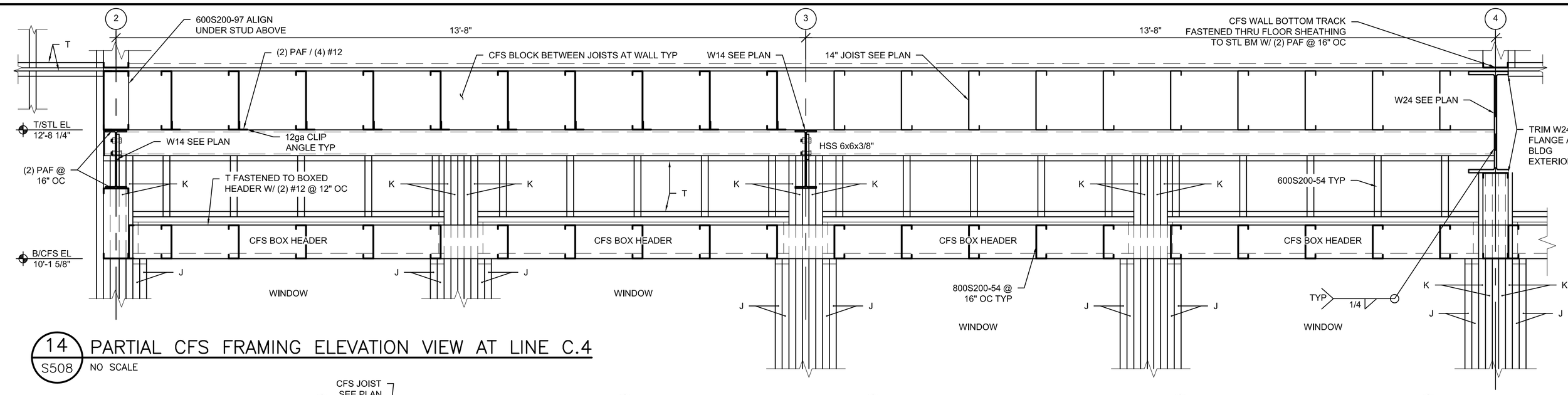


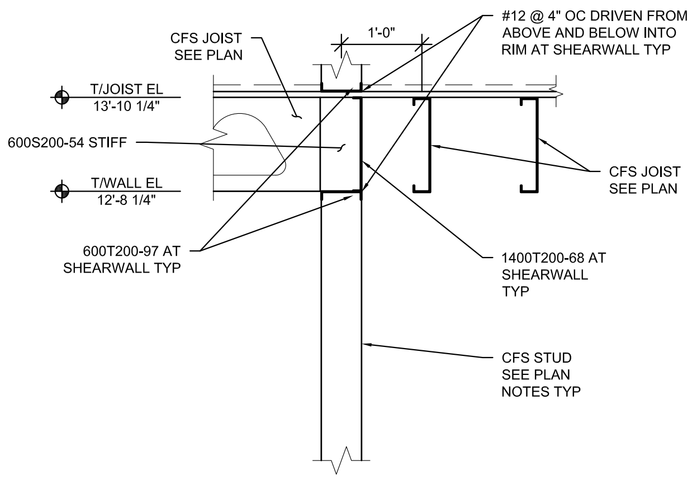
13 S508 SECTION NEAR C/3

NO SCALE



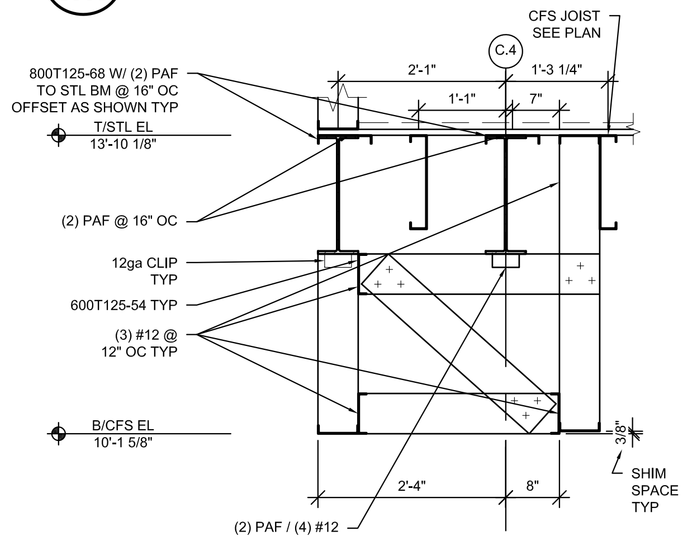
14 S508 PARTIAL CFS FRAMING ELEVATION VIEW AT LINE C.4

NO SCALE



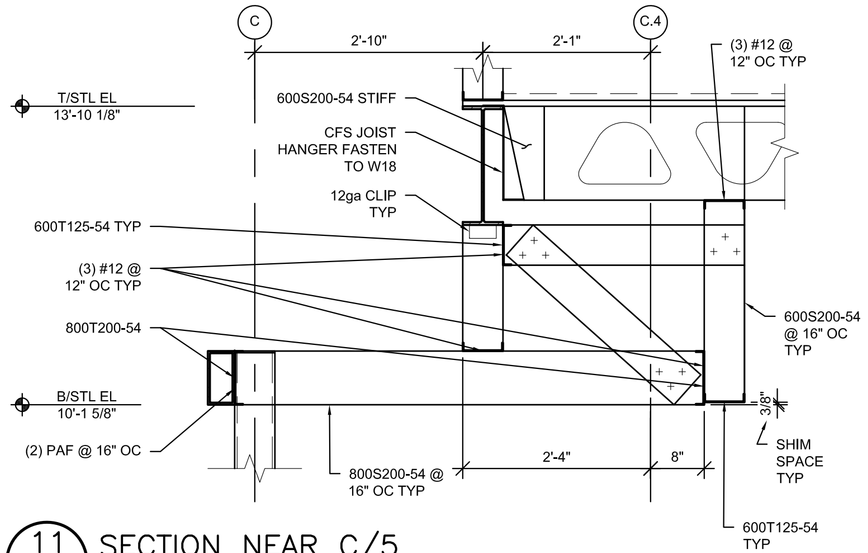
9 S508 SECTION AT SHEARWALL

NO SCALE



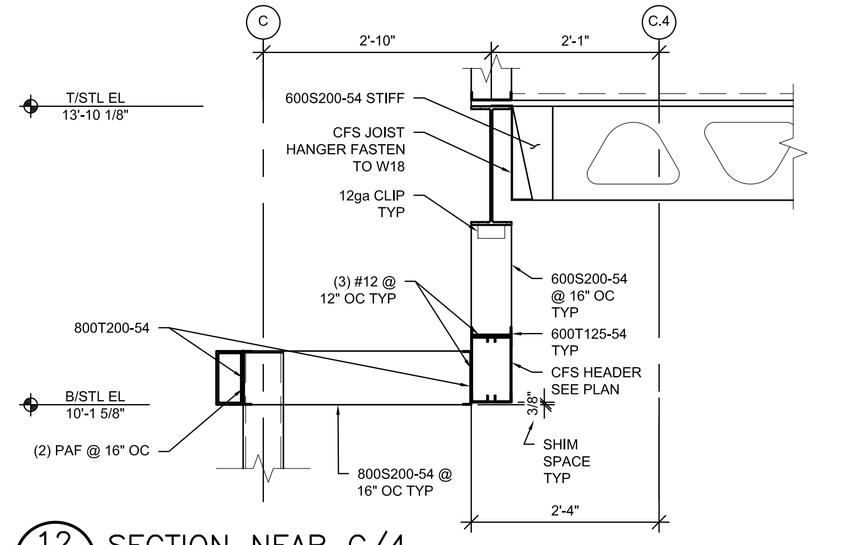
10 S508 SECTION ALONG C.4 LINE

NO SCALE



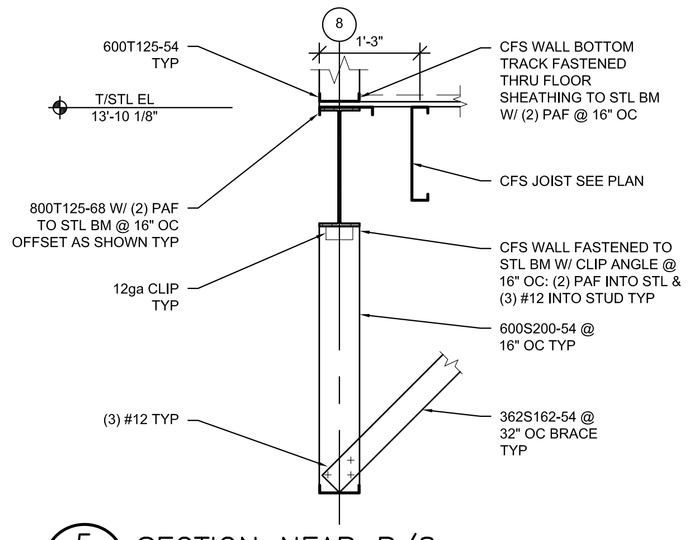
11 S508 SECTION NEAR C/5

NO SCALE



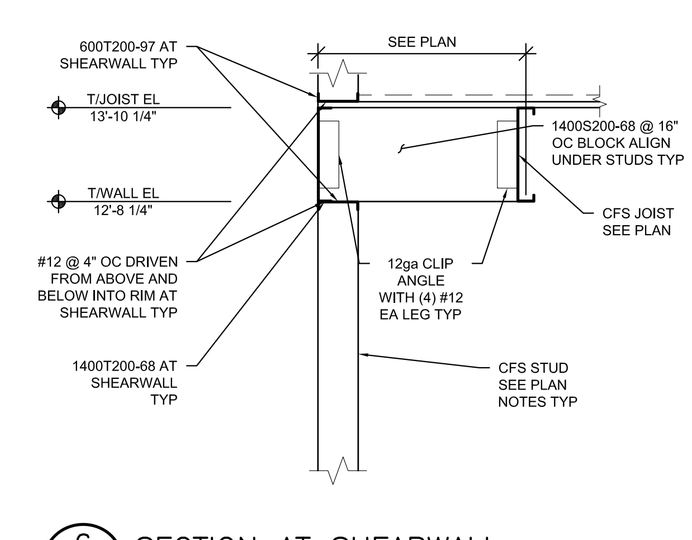
12 S508 SECTION NEAR C/4

NO SCALE



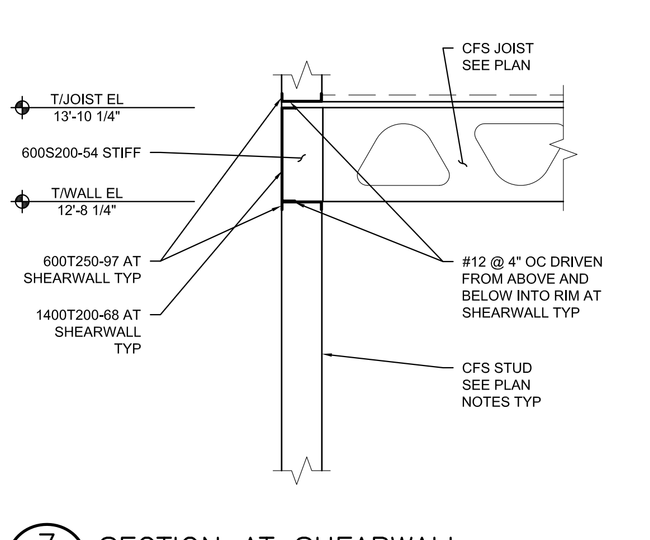
5 S508 SECTION NEAR B/8

NO SCALE



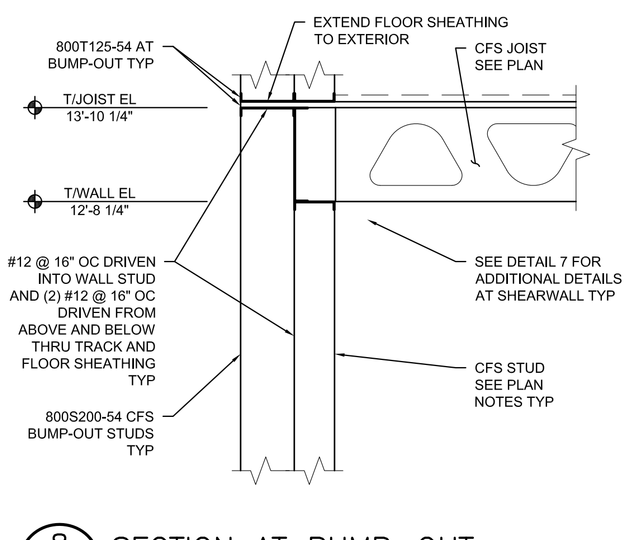
6 S508 SECTION AT SHEARWALL

NO SCALE



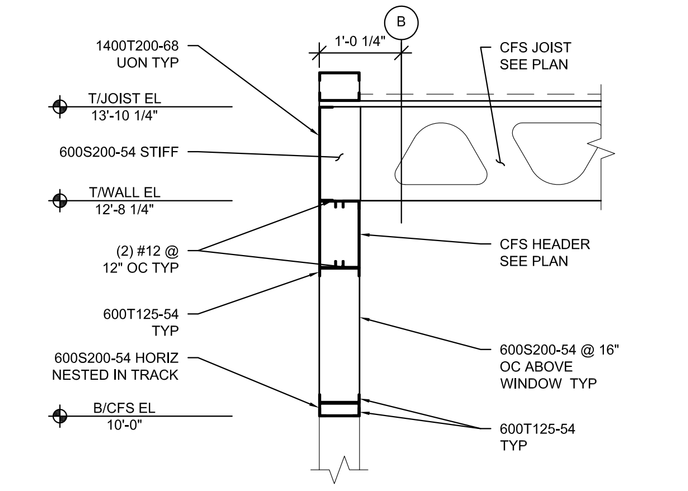
7 S508 SECTION AT SHEARWALL

NO SCALE



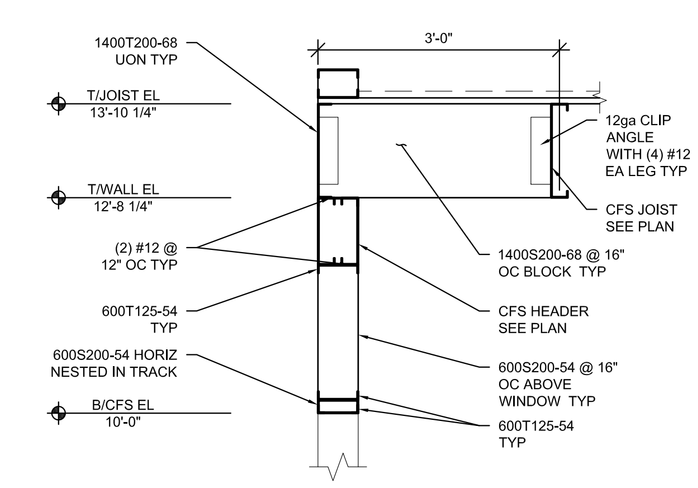
8 S508 SECTION AT BUMP-OUT

NO SCALE



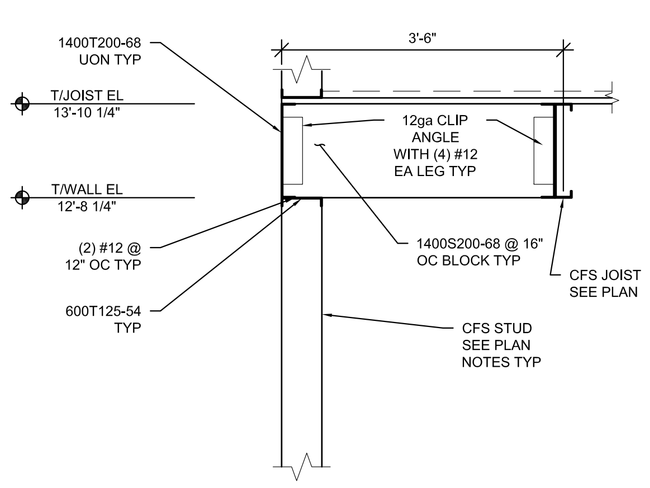
1 S508 JOIST BRG AT EXTERIOR

NO SCALE



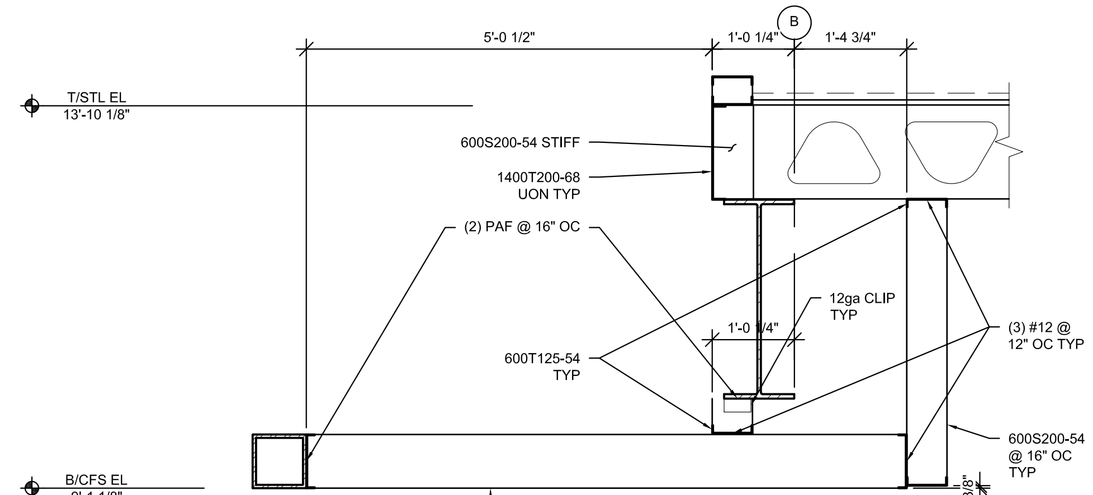
2 S508 JOIST PARALLEL TO EXTERIOR

NO SCALE



3 S508 JOIST PARALLEL TO EXTERIOR

NO SCALE



4 S508 CANOPY ALONG LINE B

NO SCALE

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7301 Barberry Lane
Manlius, New York 13104
315·415·9988

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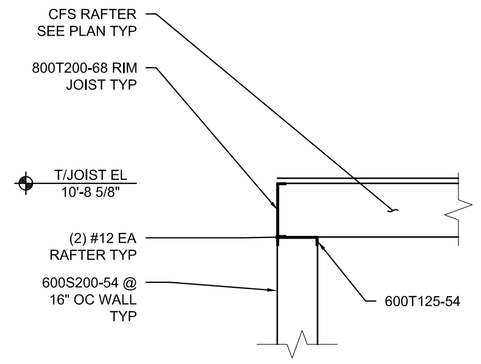
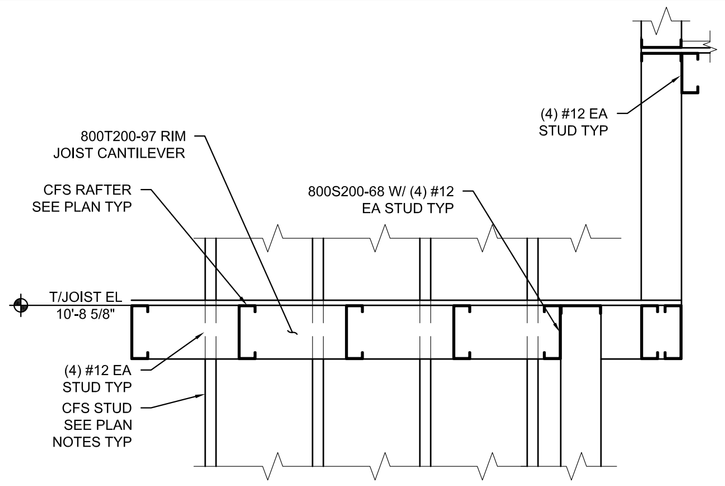
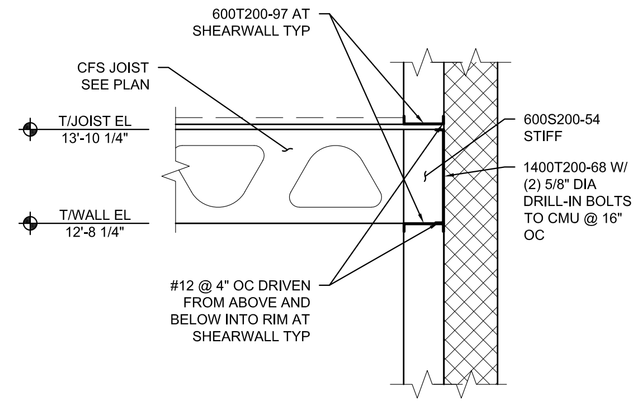


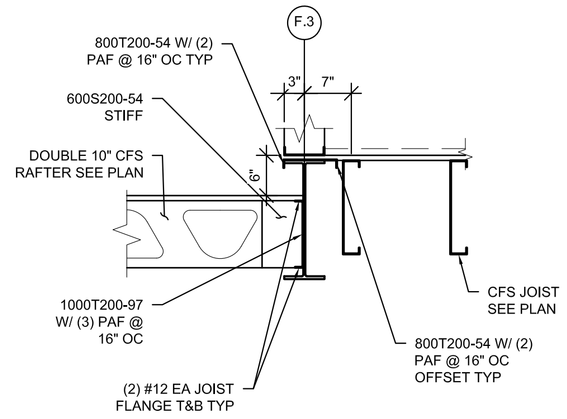
13 S509 DETAIL AT END CANOPY
NO SCALE



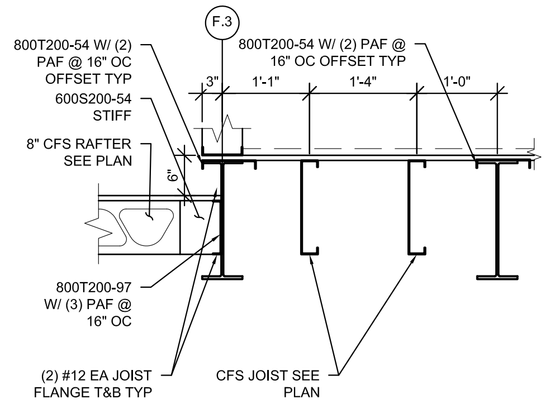
14 S509 DETAIL AT END CANOPY
NO SCALE



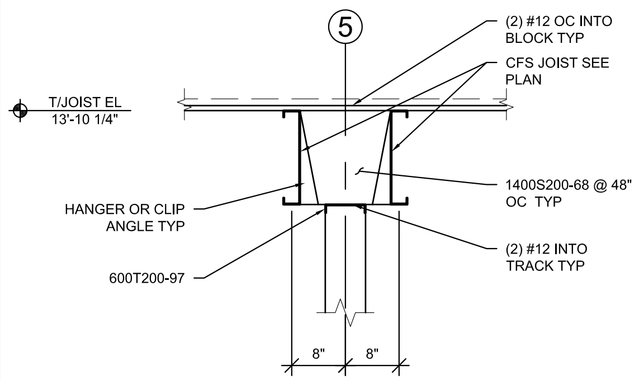
15 S509 DETAIL AT STAIR & SHEARWALL
NO SCALE



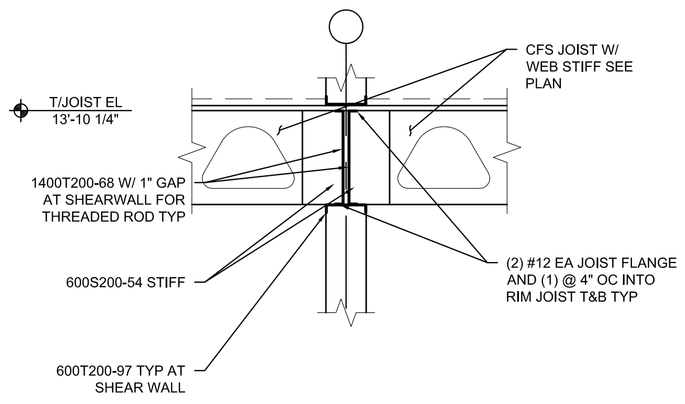
16 S509 DETAIL AT LOW ROOF
NO SCALE



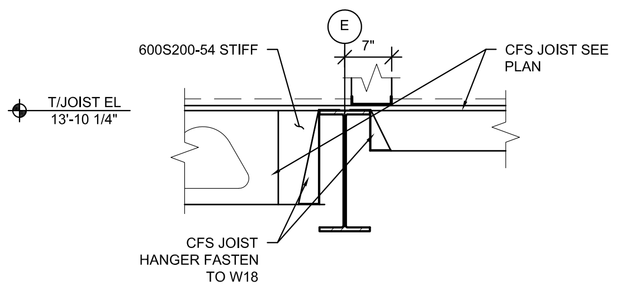
17 S509 DETAIL AT LOW ROOF
NO SCALE



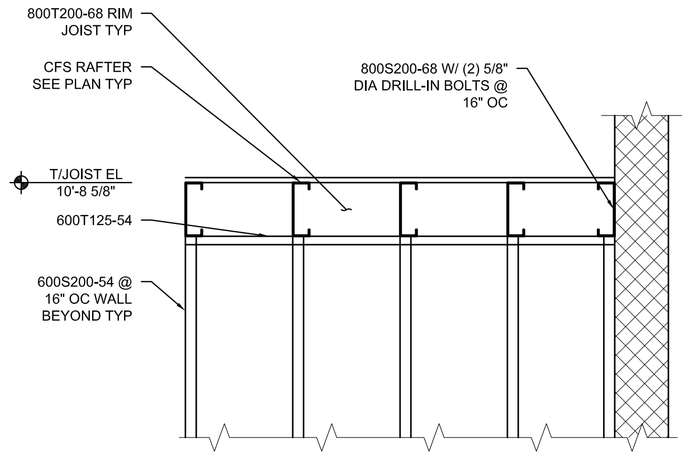
9 S509 DETAIL AT SHEAR WALL
NO SCALE



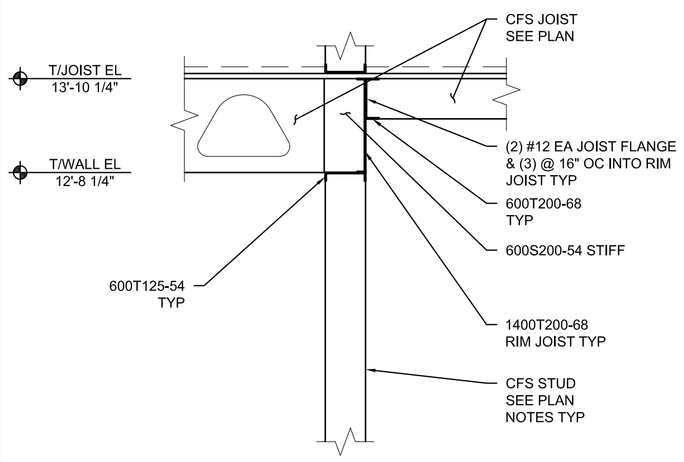
10 S509 DETAIL AT SHEAR WALL
NO SCALE



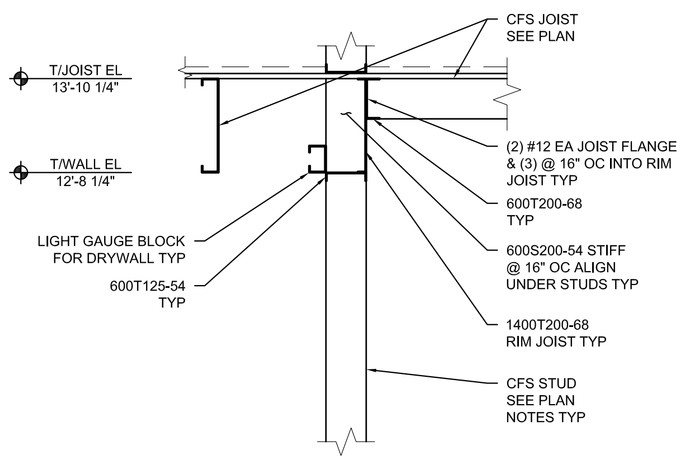
11 S509 DETAIL AT BM
NO SCALE



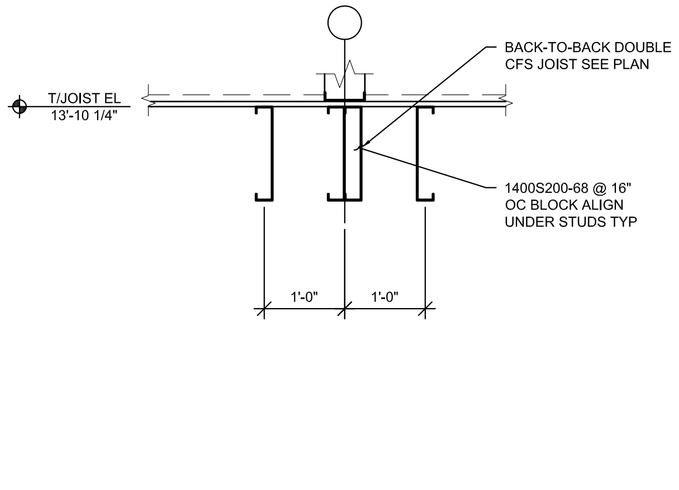
12 S509 DETAIL AT END CANOPY
NO SCALE



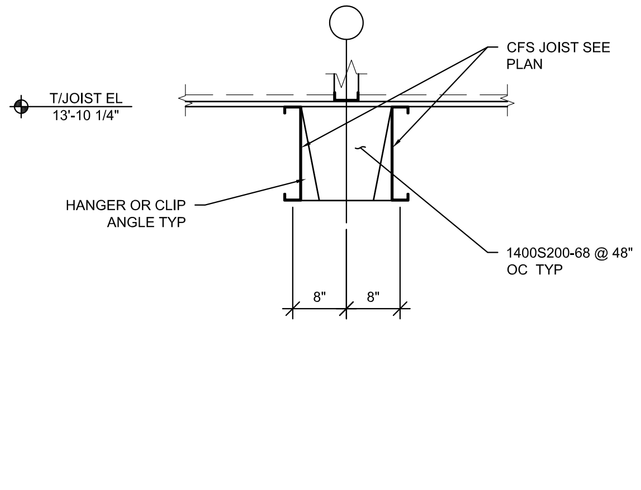
5 S509 CORRIDOR – JOISTS BRG
NO SCALE



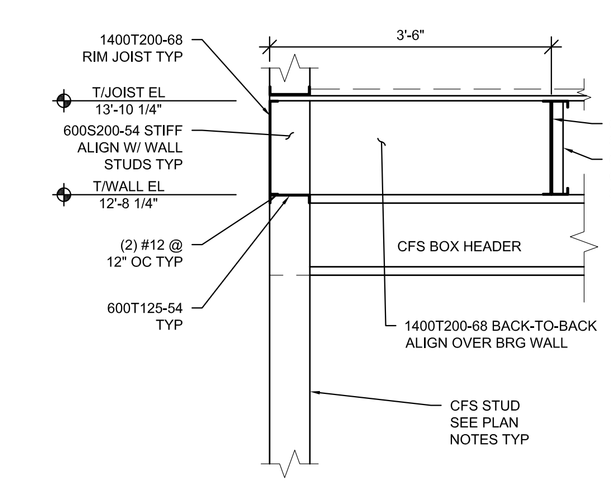
6 S509 CORRIDOR – JOISTS PARALLEL
NO SCALE



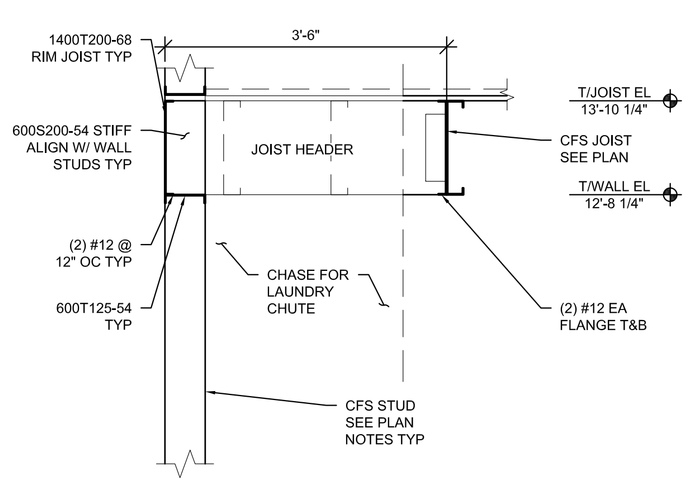
7 S509 6" PARTITION
NO SCALE



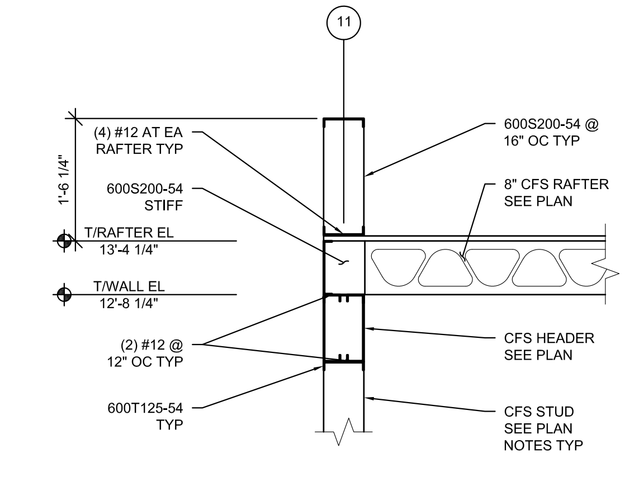
8 S509 BLOCKING AT 3 5/8" PARTITION
NO SCALE



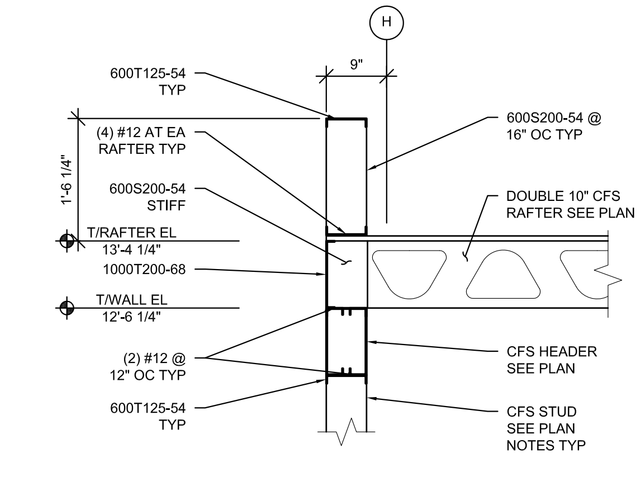
1 S509 HEADER ON LINE F.3
NO SCALE



2 S509 SECTION AT LAUNDRY CHUTE
NO SCALE



3 S509 8" RAFTER ON LINE 11
NO SCALE



4 S509 10" RAFTER ON LINE H
NO SCALE

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7301 Barberry Lane
Manlius, New York 13104
315•415•9988

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N.K. BHANDARI
ARCHITECTURE & ENGINEERING, P.C.
1005 W. Fayette St, Suite 500
Syracuse, NY 13204
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A NEW 108-ROOM MARRIOTT COURTYARD HOTEL & SUITES

Turner Road
Woodbury, New York
location #12121

for

RAINBOW ENTERPRISES

4758 Highway 28
Cooperstown, NY

90% SUBMITTAL

REVISION DATES

DRAWING TITLE
COLD FORMED STEEL SECTIONS & DETAILS

DATE
05-12-2020

PROJECT NUMBER
17971

SHEET NUMBER
S509

13 S510 TBD NO SCALE

14 S510 TBD NO SCALE

15 S510 TBD NO SCALE

16 S510 TBD NO SCALE

9 S510 TBD NO SCALE

10 S510 TBD NO SCALE

11 S510 TBD NO SCALE

12 S510 TBD NO SCALE

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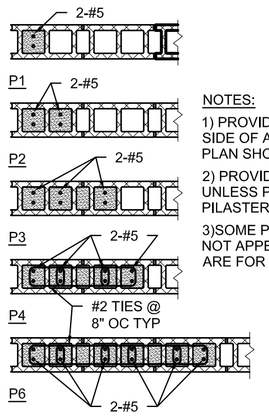
SHEET NUMBER **S511**



NOTES:

1) PROVIDE P1 FULL HEIGHT EACH SIDE OF ALL OPENINGS UNLESS PLAN SHOWS LARGER PILASTER.

2) PROVIDE P2 AT ALL CORNERS UNLESS PLAN SHOWS LARGER PILASTER.

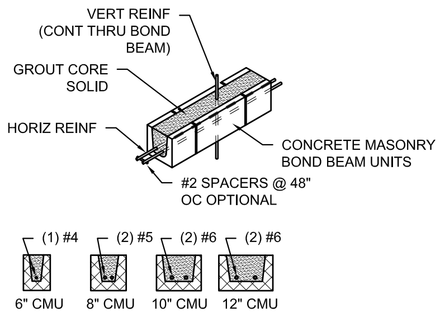
3)SOME PILASTERS SHOWN MAY NOT APPEAR ON THE PLANS AND ARE FOR REFERENCE ONLY.

9 S512 PILASTER SCH & DETAILS

NO SCALE

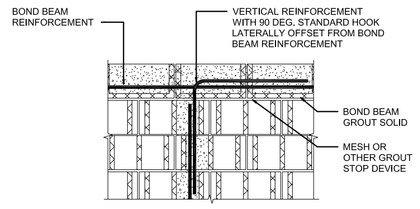
NOTES:

1) FULLY GROUT TOP COURSE AND PROVIDE A BOND BEAM 1 COURSE DOWN FROM TOP OF ALL CMU WALLS AND AT MAXIMUM 4'-0" OC VERTICAL SPACING.



10 S512 BOND BEAM DETAILS

NO SCALE



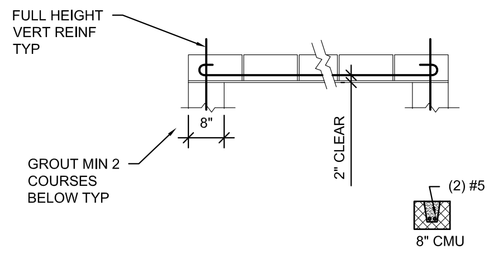
11 S512 REINF DETAIL AT TOP BOND BEAM

NO SCALE

CMU WALL SCHEDULE				
MARK	CMU THICKNESS	BOND BEAM SPACING	VERT REINF	REMARKS
8" CMU	8"	48"	#5 @ 48"	FULLY GROUT ALL CELLS AT ELEVATOR
4" CMU	4"	48"	#3 @ 24"	UL RATED FOR LAUNDRY CHUTE

2 S512 WALL SCHEDULE

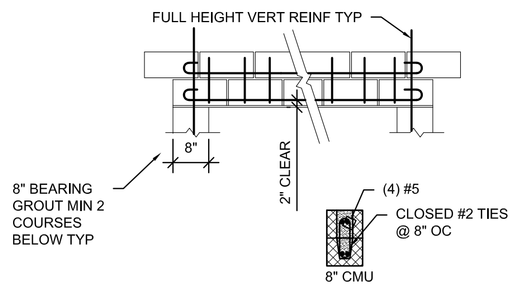
NO SCALE



TYPICAL CMU LINTEL NOTES:
1. GROUT SOLID ALL MASONRY UNITS.
2. ALL REINFORCING BARS ARE HOOKED AROUND VERTICAL BARS AT THE ENDS. STIRRUPS SHALL TERMINATE IN FULL 180° HOOK.
3. LINTELS SHALL BEAR ON GROUT FILLED COURSES, UON.
4. BOND PATTERN OF LINTEL TO MATCH ADJACENT WALL USE CUT BLOCK AS REQUIRED.
5. BOTTOM OF LINTEL SHALL BE SMOOTH MASONRY WITH NO CORES EXPOSED

5 S512 TYP CMU LINTEL: ML-1

NO SCALE



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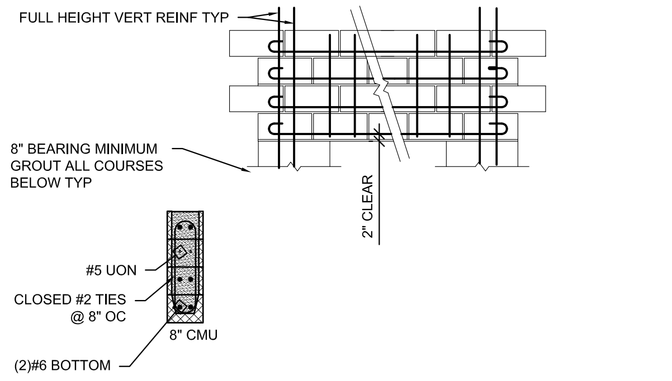
4. BOND PATTERN OF LINTEL TO MATCH ADJACENT WALL USE CUT BLOCK AS REQUIRED.
5. BOTTOM OF LINTEL SHALL BE SMOOTH MASONRY WITH NO CORES EXPOSED

6 S512 TYP CMU LINTEL: ML-2

NO SCALE



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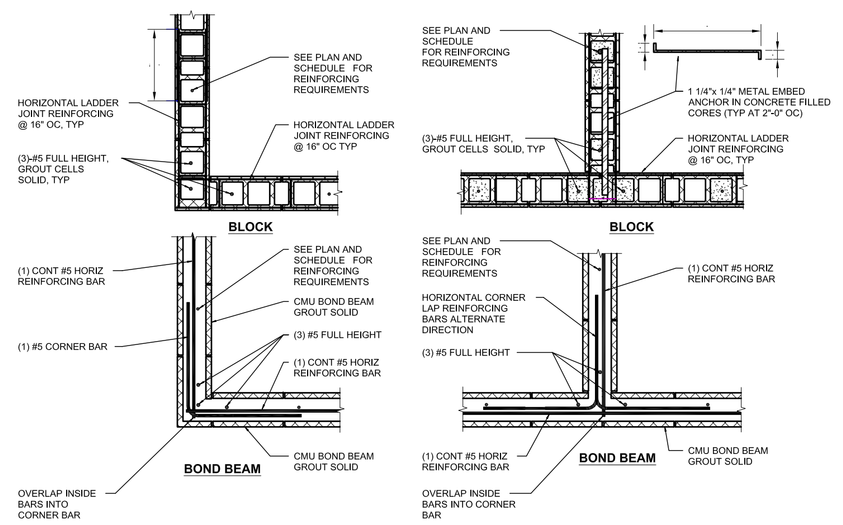
3. LINTELS SHALL BEAR ON GROUT FILLED COURSES, UON.
4. BOND PATTERN OF LINTEL TO MATCH ADJACENT WALL USE CUT BLOCK AS REQUIRED.
5. BOTTOM OF LINTEL SHALL BE SMOOTH MASONRY WITH NO CORES EXPOSED

7 S512 TYP CMU LINTEL: ML-4

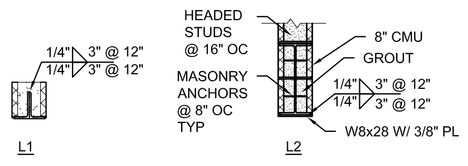
NO SCALE

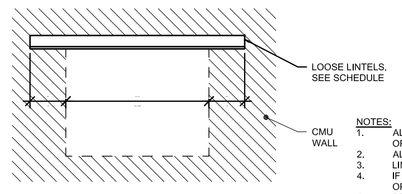


8 S512 BOND BEAM & WALL REINF DETAILS AT CORNER & "T"

NO SCALE

LINTEL SCHEDULE		
LINTEL NAME	STEEL SIZE	MAX OPNG LENGTH
L1	(2) L5x3 1/2x3/8 (LLV BACK TO BACK)	3'-6"
L2	W16x40 STL BM, LARGE ELEVATOR OPNG AT 1ST GLR AND TOP LEVEL COORD W/ MFR	18'-0"



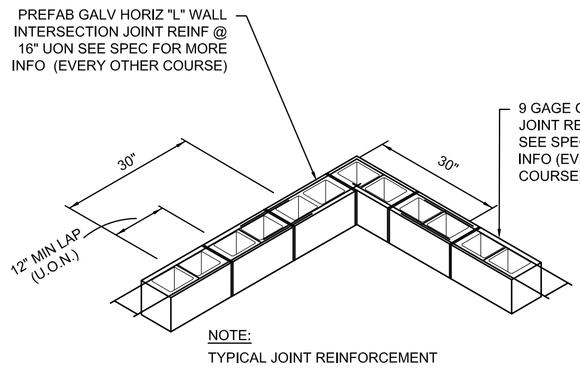


ELEVATION

NOTES:
1. ALL LINTEL LOCATIONS NOT SHOWN ON STRUCTURAL DRAWINGS, CONTRACTOR TO COORDINATE ALL OPENING SIZES AND LOCATIONS WITH ARCH AND MECH DRAWINGS.
2. ALL EXTERIOR WALL LINTELS ARE TO BE GALVANIZED.
3. LINTELS TO HAVE 8" BEARING MIN.
4. IF LINTEL IS NOT SPECIFICALLY CALLED OUT ON PLANS REFER TO SCHEDULE FOR LINTEL SIZE. IF AN OPENING IS REQUIRED GREATER THAN SCHEDULED CONTACT ENGINEER OF RECORD.
5. PROVIDE AN 100 LB ALLOWANCE OF LOOSE LINTEL MATERIAL FOR MISCELLANEOUS OPENINGS NOT SHOWN.
6. PROVIDE TEMPORARY SHORING AT ALL OPENINGS 3'-0" AND GREATER.

4 S512 LINTEL SCHEDULE & DETAIL

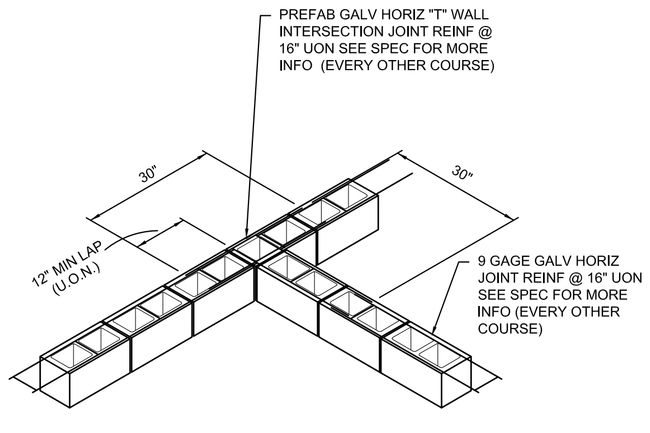
NO SCALE



NOTE:
TYPICAL JOINT REINFORCEMENT DETAILS AT CORNER

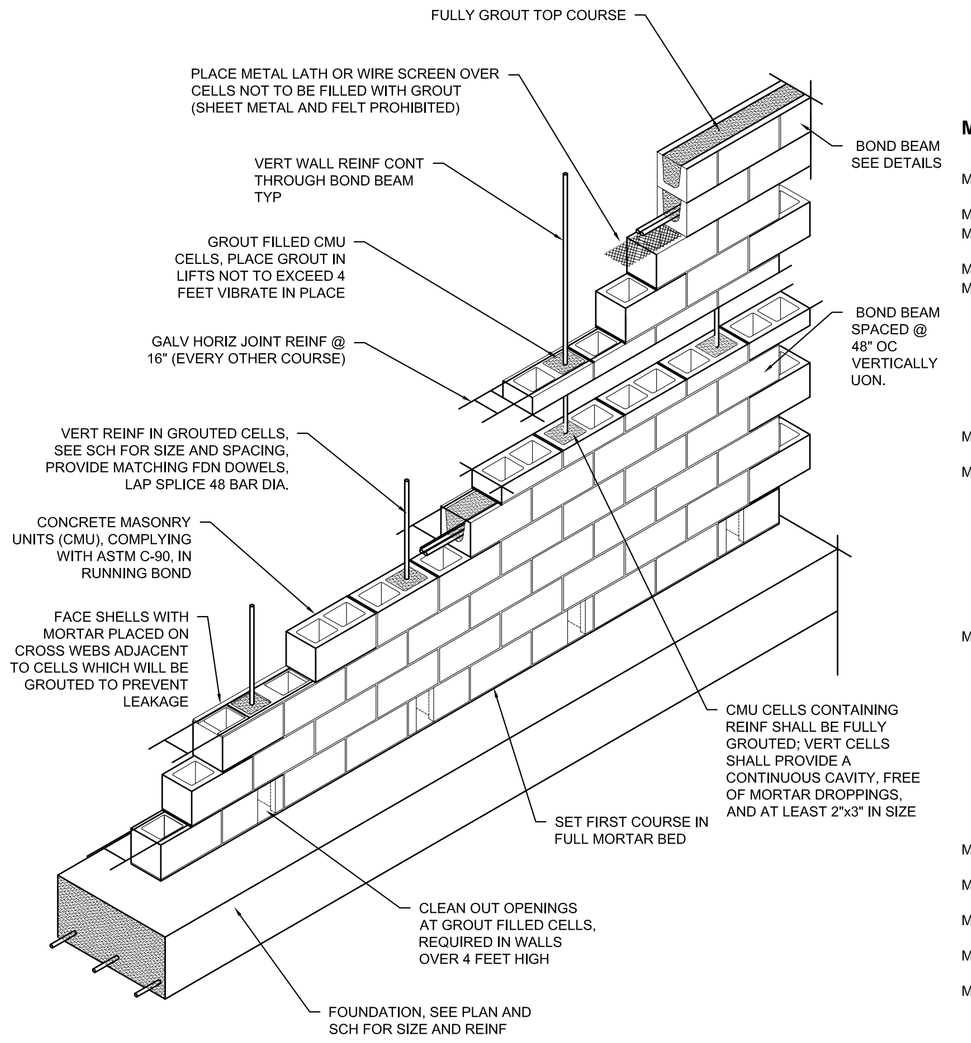
1 S512 WALL CORNER JOINT REINF

NO SCALE



2 S512 WALL "T" JOINT REINF

NO SCALE



3 S512 TYP REINFORCED MASONRY WALL CONSTRUCTION

NO SCALE

MASONRY NOTES

M-1 ALL CONCRETE MASONRY SHALL CONFORM WITH ASTM C90 HOLLOW LOAD BEARING (HL) UNITS WITH A COMPRESSIVE STRENGTH OF 2150 PSI ON THE NET SECTION.

M-2 ALL MORTAR SHALL CONFORM WITH ASTM C270.

M-3 ALL GROUT SHALL CONFORM WITH ASTM C476 AND HAVE AN AVERAGE COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. CONCRETE SHALL NOT BE USED IN LIEU OF MASONRY GROUT.

M-4 CENTER ALL VERTICAL REINFORCING IN CMU CORE AND HOLD IN POSITION WITH CAGING DEVICES.

M-5 THE MINIMUM LENGTH OF LAP FOR REINFORCING IN MASONRY WALLS UNLESS OTHERWISE NOTED SHALL BE AS FOLLOWS:

BAR NO	LAP
#3	18"
#4	24"
#5	30"
#6	36"
#7	42"

M-6 PROVIDE BOND BEAMS AT THE TOP OF NON-BEARING PARTITIONS AND BRACE WALL TO STRUCTURE TO RESIST LATERAL LOAD. SEE FRAMING PLANS FOR BEARING AND SHEAR WALLS.

M-7 ALL BOND BEAMS SHALL BE CONTINUOUS AND SHALL BE FILLED WITH GROUT AND REINFORCED AS FOLLOWS:

BOND BEAM	REINFORCING
6" CMU	(1) #4
8" CMU	(2) #5
10" CMU	(2) #6
12" CMU	(2) #6

REINFORCING SHALL BE CONTINUOUS UNLESS OTHERWISE NOTED. PROVIDE HORIZONTAL BENT BARS AT CORNERS AND INTERSECTIONS TO MAINTAIN CONTINUOUS REINFORCING.

M-8 GROUT SHALL BE PLACED IN THE VERTICAL CORES OF THE MASONRY UNITS UTILIZING THE LOW LIFT GROUTING METHOD SET FORTH IN NCMA-TEK 23A.

A) WEBS ADJACENT TO CORES TO BE GROUTED SHALL BE MORTARED. MORTAR SHALL BE STRUCK FLUSH WITH THE INSIDE FACE OF CORES TO BE GROUTED. CORES TO BE GROUTED SHALL BE CLEARED OF ALL MORTAR DROPPINGS AND OTHER DEBRIS PRIOR TO GROUTING.
B) THE MAXIMUM HEIGHT OF A GROUT LIFT SHALL BE 4 FEET.
C) STOP GROUT POURS 1½ INCHES BELOW THE UPPERMOST PORTION OF THE CAVITY BEING FILLED TO PROVIDE A KEY FOR THE NEXT LIFT OR POUR.
D) CONSOLIDATE GROUT BY VIBRATE TWICE WITH A MECHANICAL VIBRATOR EACH LIFT, ONCE IMMEDIATELY AFTER POUR AND ONCE APPROXIMATELY 30 MINUTES AFTER GROUT IS INSTALLED.
E) ALL REINFORCING STEEL SHALL BE INSPECTED IN PLACE BEFORE GROUTING AND THERE SHALL BE CONTINUOUS INSPECTION DURING THE GROUTING OPERATION.

M-9 PROVIDE VERTICAL REINFORCING IN GROUTED CORES FOR ALL CMU WALLS AS INDICATED ON THE FRAMING PLANS. PROVIDE #4 @ 4'-0" OC IN NON-BEARING PARTITIONS UON.

M-10 PROVIDE VERTICAL REINFORCING AT FLUSH PILASTERS IN GROUTED CORES FOR ALL CMU WALLS AS INDICATED ON THE FRAMING PLANS AND DETAILED IN THE TYPICAL DETAILS.

M-11 PLACE #5 REINFORCING BARS IN TWO GROUTED CORES EACH SIDE OF OPENING EXTENDING FULL HEIGHT OF WALL.

M-12 PROVIDE ONE VERTICAL REINFORCING BAR (SAME SIZE AS ADJACENT WALL) FULL HEIGHT OF WALL AT CORNERS, INTERSECTIONS, WALL ENDS, JAMBS AND EACH SIDE OF CONTROL JOINTS, UON.

M-13 SUBMIT SHOP DRAWINGS DETAILING ALL REINFORCING STEEL IN REINFORCED MASONRY CONSTRUCTION INCLUDING DETAILS OF ALL BENT BARS, VERTICAL REINFORCING AND HORIZONTAL BOND BEAM REINFORCING. INCLUDE PLANS, BEARING POCKETS AND ELEVATIONS AS REQUIRED TO CLEARLY SHOW ALL REINFORCING.

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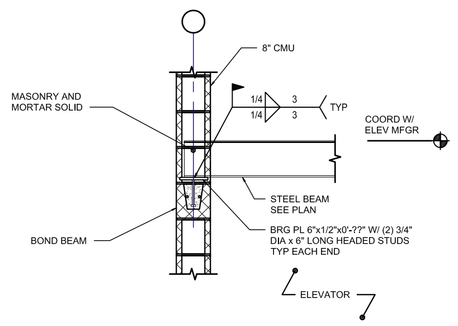
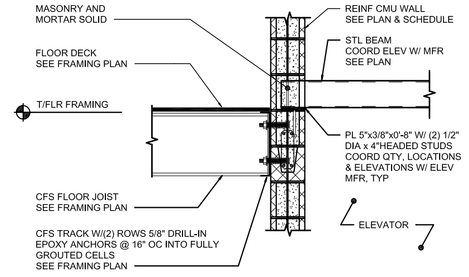
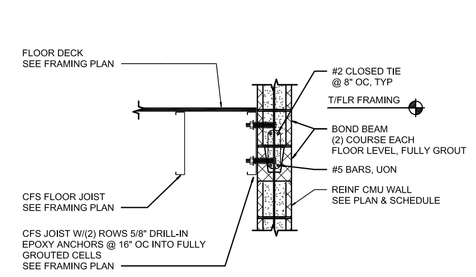


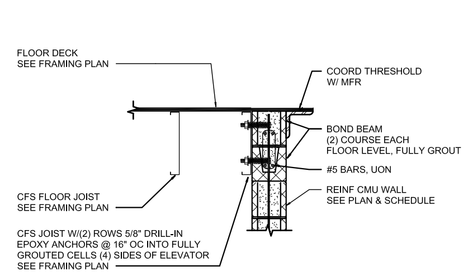
1 S513 ELEVATOR BEAM
NO SCALE



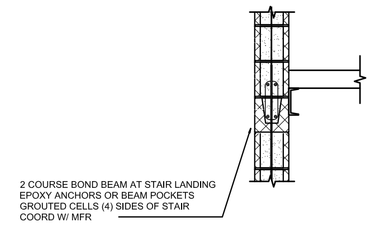
2 S513 ELEVATOR RAIL SUPPORT BEAM
NO SCALE



3 S513 CFS TRACK ATTACHMENT TO CMU
NO SCALE



4 S513 ELEVATOR THRESHOLD
NO SCALE



5 S513 CMU AT STAIR
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