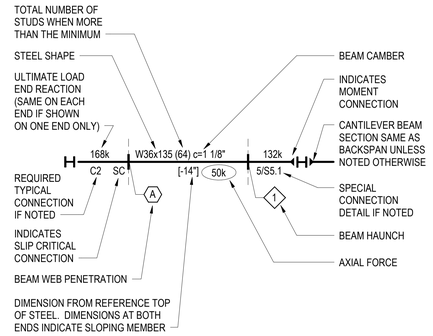
&	AND
@	AT
°, DEG	DEGREE
ø, DIA	DIAMETER
#	NUMBER, POUND
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AGGR	AGGREGATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
APPD	APPROVED
APPROX	APPROXIMATE
AR	ANCHOR RODS
ARCH	ARCHITECTURAL; ARCHITECT
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BAL	BALANCE
BD	BOARD
BF	BRACED FRAME
BLDG	BUILDING
BLK	BLOCK; BLOCKING
BM	BEAM
BMU	BRICK MASONRY UNIT
BOS	BOTTOM OF STEEL; BOSOM (WELD)
BOT	BOTTOM
BRCG	BRACING
BRG	BEARING
BRKT	BRACKET
BSMT	BASEMENT
BTWN	BETWEEN
BU	BUILT-UP
c	CAMBER
C	STANDARD CHANNEL
CANT	CANTILEVER
CC	CENTER TO CENTER
CG	CENTER OF GRAVITY
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION WELD
CL	CENTERLINE
CLR	CLEARANCE; CLEAR
CLT	CROSS LAMINATED TIMBER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSION
CONC	CONCRETE
CONFIG	CONFIGURATION
CONN	CONNECTION; CONNECT
CONST	CONSTRUCTION
CONT	CONTINUE; CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE; COORDINATION
CORR	CORRUGATED
CP, CJP	COMPLETE JOINT PENETRATION WELD
CTR	CENTER
CTSK	COUNTERSINK; COUNTERSUNK
CU	CUBIC
d	PENNY (NAIL)
db	NOMINAL BAR DIAMETER (INCHES)
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DC	DEMAND CRITICAL WELD
DEG, °	DEGREE
DEMO	DEMOLISH; DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DIA, ø	DIAMETER
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DICA	DRILLED-IN CONCRETE ANCHOR
DIM	DIMENSION
DISC	DISCONTINUED; DISCONTINUOUS
DL	DEAD LOAD
DLT	DOWEL LAMINATED TIMBER
DN	DOWN
DO	DITTO
DWG	DRAWING
DWL	DOWEL
(E)	EXISTING
E	EAST
E-W	EAST-WEST
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDDED
ENGR	ENGINEER
EQ	EQUAL; EARTHQUAKE
EQUIP	EQUIPMENT
ES	EACH SIDE
ETC	ET CETERA
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
EXTD	EXTEND; EXTENDED
F	DEGREES FAHRENHEIT
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FAR FACE
FFE	FINISH FLOOR ELEVATION
FG	FRICTION GRIP BOLT
FIN	FINISH
FL	FLOOR; FLOOR LINE
FLG	FLANGE
FOS	FACE OF STUD
FP	FIREPROOF; FULL PENETRATION
FRMG	FRAMING
FS	FULL SIZE; FAR SIDE
FT	FOOT; FEET
FTG	FOOTING
FV	FIELD VERIFY
GA	GAGE, GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLUED LAMINATED (BEAM)
GR	GRADE
GRND	GROUND
H	HORIZONTAL
HEF	HORIZONTAL EACH FACE
HGR	HANGER
HIF	HORIZONTAL INSIDE FACE
HOF	HORIZONTAL OUTSIDE FACE
HORIZ	HORIZONTAL
HP	HP SHAPES; HIGH POINT
HS	HIGH STRENGTH
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
ICC	INTERNATIONAL CODE COUNCIL
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIP (1,000 POUNDS)
KO	KNOCK-OUT
KSI	KIPS PER SQUARE INCH
L	ANGLE
LAB	LABORATORY
LB, #	POUND
LF	LINEAL FOOT
LIN	LINEAL; LINEAR
LL	LIVE LOAD
LLBB	LONG LEGS BACK-TO-BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION; LOCATE
LONGIT	LONGITUDINAL
LP	LOW POINT
LSL	LONG SLOTTED (HOLES)
LSW	LIGHT GAGE SHEAR WALL
LTWT	LIGHTWEIGHT
LVL	LEVEL
LWC	LIGHTWEIGHT CONCRETE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MISCELLANEOUS CHANNEL
MECH	MECHANICAL
MEMB	MEMBRANE
MEP	MECHANICAL/ ELECTRICAL / PLUMBING
MEZZ	MEZZANINE
MF	MOMENT FRAME
MFB	MOMENT FRAME BEAM
MFC	MOMENT FRAME COLUMN
MFR	MANUFACTURE; MANUFACTURER
MFRG	MANUFACTURING
MIN	MINIMUM; MINUTE
MISC	MISCELLANEOUS
ML	MATCH LINE
MO	MASONRY OPENING
MS	MECHANICAL SPLICE
N	NORTH
N-S	NORTH-SOUTH
NF	NEAR FACE
NIC	NOT IN CONTRACT
NLT	NAIL LAMINATED TIMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
NWC	NORMALWEIGHT CONCRETE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP	OPPOSITE (HAND)
OPT	OPTION; OPTIONAL
OVS	OVERSIZED (HOLES)
OWJ	OPEN WEB JOIST
P	PIPE
PC	PRECAST
PCF	POUNDS PER CUBIC FOOT
PCP	PRECAST CONCRETE PANEL
PEN	PENETRATION
PERP	PERPENDICULAR
PH	PENTHOUSE
PJP, PP	PARTIAL JOINT PENETRATION WELD
PL	PLATE
PLC	PLACE
PLF	POUNDS PER LINEAL FOOT
PLYWD	PLYWOOD
PP, PJP	PARTIAL JOINT PENETRATION WELD
PREFAB	PREFABRICATED
PS	PRESTRESSED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSIONED
PV	PHOTOVOLTAICS
PVC	POLYVINYL CHLORIDE
R	RADIUS
RB	RISER BAR
RC	REINFORCED CONCRETE
RCMD	RECOMMEND
REF	REFERENCE
REINF	REINFORCE; REINFORCING; REINFORCEMENT
REQD	REQUIRED
REQT	REQUIREMENT
S1S	SURFACED ONE SIDE
S2S	SURFACED TWO SIDES
S4S	SURFACED FOUR SIDES
S	AMERICAN STANDARD SHAPE; SOUTH
SB	SPACER BAR; SUPPORT BAR
SC	SLIP CRITICAL
SCC	STRUCTURAL CONSULTANT TO THE CONTRACTOR
SCHED	SCHEDULE, SCHEDULED
SDQ	SPECIAL DUCTILE QUALITY
SECT	SECTION
SEOR	STRUCTURAL ENGINEER OF RECORD
SFRS	SEISMIC FORCE RESISTING SYSTEM
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SLBB	SHORT LEGS BACK-TO- BACK
SOG	SLAB ON GRADE
SOSD	SLAB ON STEEL DECK
SP	SPIRAL
SPC	SPACE
SPCG	SPACING
SPEC	SPECIFICATION
SQ	SQUARE
SSL	SHORT SLOTTED (HOLES)
STD	STANDARD
STIFF	STIFFENER
STIRR	STIRRUP
STL	STEEL
STR	STRAIGHT
STRUC	STRUCTURAL
SUPT	SUPPORT
SW	SHEAR WALL
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T&R	TREAD AND RISER
TBD	TO BE DETERMINED
TEMP	TEMPERATURE; TEMPORARY
THK	THICK; THICKNESS
THRU	THROUGH
TOC	TOP OF CURB; TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TRANS	TRANSVERSE
TYP	TYPICAL
UB	UNIVERSAL BEAM
UBC	UNIFORM BUILDING CODE
UC	UNIVERSAL COLUMN
UL	UNDERWRITERS' LABORATORY, INC.
UNO	UNLESS NOTED OTHERWISE
UT	ULTRASONIC TEST
V, VERT	VERTICAL
VEF	VERTICAL EACH FACE
VG	VERTICAL GRAIN
VIF	VERTICAL INSIDE FACE
VOF	VERTICAL OUTSIDE FACE
W	WIDE FLANGE; WIDE; WEST
W/	WITH
W/O	WITHOUT
WD	WOOD
WF	WIDE FLANGE
WH	WEEP HOLE
WL	WORK LINE
WP	WORK POINT
WPJ	WEAKENED PLANE JOINT
WT	WEIGHT; STRUCTURAL TEE CUT FROM W SHAPE
WWR	WELDED WIRE REINFORCING
YD	YARD

16 ABBREVIATIONS

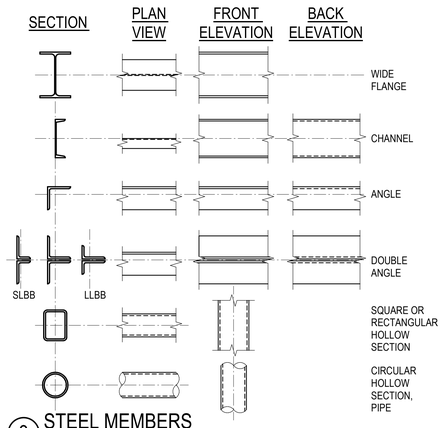


NOTES:

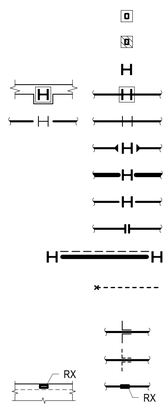
1. NO REACTION AT EITHER END INDICATES MINIMUM CONNECTION FOR BEAM DEPTH. SEE "GENERAL NOTES FOR STEEL CONNECTIONS".
2. SPACE STUDS PER "TYPICAL SHEAR STUD PLACEMENT" DETAIL.
3. "M" IN PLACE OF STEEL SHAPE INDICATES W10x12 WITH MINIMUM CONNECTION.
4. "HSS" IN PLACE OF STEEL SHAPE INDICATES HSS8x4x1/4.
5. "E" IN PLACE OF STEEL SHAPE INDICATES FRAMING PER "TYPICAL EXTENDED DECK EDGE" DETAILS.
6. WHERE NO BEAM SIZE IS CALLED OUT ADJACENT TO FLOOR OR ROOF OPENING, REFER TO TYPICAL STEEL DETAILS FOR SIZES AND CONNECTIONS.
7. (A) INDICATES BEAM WEB PENETRATION PER "TYPICAL BEAM WEB PENETRATION DETAILS".

3

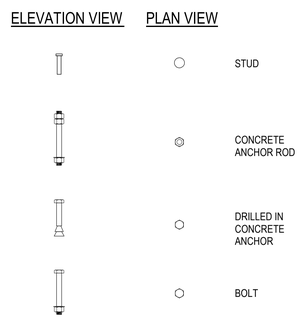
7 BEAM CALLOUT KEY



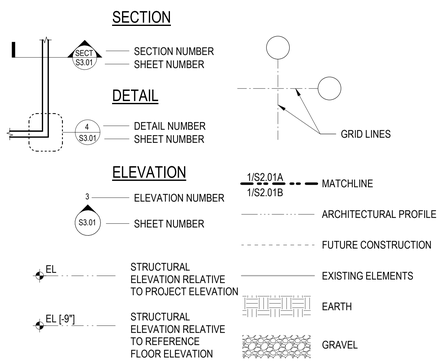
3 STEEL MEMBERS



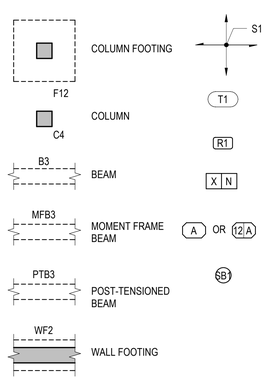
8 STEEL SYMBOLS



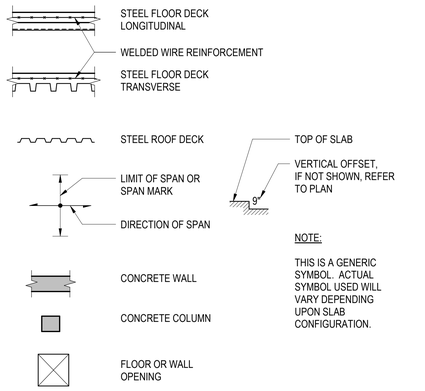
12 CONNECTORS



13 MISCELLANEOUS SYMBOLS



17 CONCRETE SCHEDULE MARKS



NOTE:

THIS IS A GENERIC SYMBOL. ACTUAL SYMBOL USED WILL VARY DEPENDING UPON SLAB CONFIGURATION.

18 CONCRETE SYMBOLS

DRAWING LIST	
SHEET NUMBER	SHEET NAME
S0.00	COVER
S0.01	ABBREVIATIONS, LEGENDS, AND DRAWING LIST
S0.02	REINFORCING DETAILS
S0.03	GENERAL NOTES
S0.04	GENERAL NOTES
S0.05	ISOMETRIC VIEWS
S0.06	ISOMETRIC VIEWS
S0.07	ISOMETRIC VIEWS
S0.08	ISOMETRIC VIEWS
S1.00	LOAD MAPS
S1.01	LOAD MAPS
S1.02	LOAD MAPS
S1.03	LOAD MAPS
S1.04	LOAD MAPS
S1.05	LOAD MAPS
S1.06	LOAD MAPS
S1.07	LOAD MAPS
S1.08	LOAD MAPS
S1.09	LOAD MAPS
S2.01	TOWER A & B LEVEL B1 COMPOSITE FRAMING PLAN
S2.02	TOWER A & B LEVEL P2 COMPOSITE FRAMING PLAN
S2.11	TOWER A LEVEL 1 & TOWER B LEVEL P1 COMPOSITE FRAMING PLAN
S2.12	TOWER A LEVEL 2 & TOWER B LEVEL 1 COMPOSITE FRAMING PLAN
S2.A.01	TOWER A LEVEL B1 FRAMING PLAN
S2.A.01.B	TOWER A LEVEL B1 LONGITUDINAL REINFORCING PLAN
S2.A.01.V	TOWER A LEVEL B1 SHEAR REINFORCING PLAN
S2.A.02	TOWER A LEVEL P2 FRAMING PLAN
S2.A.02.R	TOWER A LEVEL P2 REINFORCING PLAN
S2.A.11	TOWER A LEVEL 1 FRAMING PLAN
S2.A.11.R	TOWER A LEVEL 1 REINFORCING PLAN
S2.A.12	TOWER A LEVEL 2 FRAMING PLAN
S2.A.12.R	TOWER A LEVEL 2 REINFORCING PLAN
S2.A.13	TOWER A LEVEL 3 FRAMING PLAN
S2.A.13.R	TOWER A LEVEL 3 REINFORCING PLAN
S2.A.14	TOWER A LEVEL 4 FRAMING PLAN
S2.A.14.R	TOWER A LEVEL 4 REINFORCING PLAN
S2.A.15	TOWER A LEVEL 5 FRAMING PLAN
S2.A.15.R	TOWER A LEVEL 5 REINFORCING PLAN
S2.A.16	TOWER A LEVEL 6 FRAMING PLAN
S2.A.16.R	TOWER A LEVEL 6 REINFORCING PLAN
S2.A.17	TOWER A ROOF FRAMING PLAN
S2.A.18	TOWER A EMBEDDED HSS ROOF FRAMING PLAN
S2.A.50	TOWER A PARTIAL PLANS
S2.AB.01	TOWER A & B PARKING LEVEL 2 FRAMING PLAN
S2.AB.11	AB CONNECTOR LEVEL 1 FRAMING PLAN
S2.AB.11.R	AB CONNECTOR LEVEL 1 REINFORCING PLAN
S2.AB.12	AB CONNECTOR ROOF FRAMING PLAN
S2.AB.13	AB CONNECTOR EMBEDDED HSS ROOF FRAMING PLAN
S2.B.01	TOWER B LEVEL B1 FRAMING PLAN
S2.B.01.B	TOWER B LEVEL B1 LONGITUDINAL REINFORCING PLAN
S2.B.01.V	TOWER B LEVEL B1 SHEAR REINFORCING PLAN
S2.B.02	TOWER B LEVEL P2 FRAMING PLAN
S2.B.02.B	TOWER B LEVEL P2 MAT LONGITUDINAL REINFORCING PLAN
S2.B.02.R	TOWER B LEVEL P2 REINFORCING PLAN
S2.B.02.V	TOWER B LEVEL P2 MAT SHEAR REINFORCING PLAN
S2.B.03	TOWER B LEVEL P1 FRAMING PLAN
S2.B.03.R	TOWER B LEVEL P1 REINFORCING PLAN
S2.B.11	TOWER B LEVEL 1 FRAMING PLAN
S2.B.11.R	TOWER B LEVEL 1 REINFORCING PLAN
S2.B.12	TOWER B LEVEL 2 FRAMING PLAN
S2.B.12.R	TOWER B LEVEL 2 REINFORCING PLAN
S2.B.13	TOWER B LEVEL 3 FRAMING PLAN
S2.B.13.R	TOWER B LEVEL 3 REINFORCING PLAN
S2.B.14	TOWER B LEVEL 4 FRAMING PLAN
S2.B.14.R	TOWER B LEVEL 4 REINFORCING PLAN
S2.B.15	TOWER B LEVEL 5 FRAMING PLAN
S2.B.15.R	TOWER B LEVEL 5 REINFORCING PLAN
S2.B.16	TOWER B LEVEL 6 FRAMING PLAN
S2.B.16.R	TOWER B LEVEL 6 REINFORCING PLAN
S2.B.17	TOWER B LEVEL 7 FRAMING PLAN
S2.B.17.R	TOWER B LEVEL 7 REINFORCING PLAN
S2.B.18	TOWER B ROOF FRAMING PLAN
S2.B.19	TOWER B EMBEDDED HSS ROOF FRAMING PLAN
S2.B.50	TOWER B PARTIAL PLANS
S2.C.01	TOWER C FOUNDATION LEVEL FRAMING PLAN
S2.C.01.B	TOWER C FOUNDATION LONGITUDINAL REINFORCING PLAN
S2.C.01.V	TOWER C FOUNDATION SHEAR REINFORCING PLAN
S2.C.11	TOWER C LEVEL 1 FRAMING PLAN
S2.C.11.R	TOWER C LEVEL 1 REINFORCING PLAN
S2.C.12	TOWER C LEVEL 2 FRAMING PLAN
S2.C.12.R	TOWER C LEVEL 2 REINFORCING PLAN
S2.C.13	TOWER C LEVEL 3 FRAMING PLAN
S2.C.13.R	TOWER C LEVEL 3 REINFORCING PLAN
S2.C.14	TOWER C LEVEL 4 FRAMING PLAN
S2.C.14.R	TOWER C LEVEL 4 REINFORCING PLAN
S2.C.15	TOWER C LEVEL 5 FRAMING PLAN
S2.C.15.R	TOWER C LEVEL 5 REINFORCING PLAN
S2.C.16	TOWER C LEVEL 6 FRAMING PLAN
S2.C.16.R	TOWER C LEVEL 6 REINFORCING PLAN
S2.C.17	TOWER C LEVEL 7 FRAMING PLAN
S2.C.17.R	TOWER C LEVEL 7 REINFORCING PLAN
S2.C.18	TOWER C LEVEL 8 FRAMING PLAN
S2.C.18.R	TOWER C LEVEL 8 REINFORCING PLAN
S2.C.19	TOWER C ROOF LEVEL FRAMING PLAN
S2.C.20	TOWER C EMBEDDED HSS FRAMING PLAN
S2.C.50	TOWER C PARTIAL PLANS

DRAWING LIST	
SHEET NUMBER	SHEET NAME
S3.30	TOWER A & B BASEMENT WALL ELEVATIONS
S3.31	TOWER A & B BASEMENT WALL ELEVATIONS
S3.32	TOWER A & B BASEMENT WALL ELEVATIONS
S3.33	TOWER A & B BASEMENT WALL ELEVATIONS
S3.35	TOWER A & B BASEMENT WALL SECTIONS
S3.40	TOWER C BASEMENT WALL ELEVATIONS
S3.45	TOWER C BASEMENT WALL SECTIONS
S3.A1	TOWER A WEST CORE WALL ELEVATIONS
S3.A2	TOWER A EAST CORE WALL ELEVATIONS
S3.A10	TOWER A WEST CORE WALL SECTIONS
S3.A11	TOWER A WEST CORE WALL SECTIONS
S3.A20	TOWER A EAST CORE WALL SECTIONS
S3.A21	TOWER A EAST CORE WALL SECTIONS
S3.B1	TOWER B NORTH CORE WALL ELEVATIONS
S3.B2	TOWER B SOUTH CORE WALL ELEVATIONS
S3.B10	TOWER B NORTH CORE WALL SECTIONS
S3.B11	TOWER B NORTH CORE WALL SECTIONS
S3.B20	TOWER B SOUTH CORE WALL SECTIONS
S3.B21	TOWER B SOUTH CORE WALL SECTIONS
S3.C1	TOWER C SHEAR WALL ELEVATIONS
S3.C2	TOWER C SHEAR WALL ELEVATIONS
S3.C10	TOWER C SHEAR WALL SECTIONS
S3.C20	TOWER C SHEAR WALL SECTIONS
S4.00	COLUMN SCHEDULES
S4.01	TYPICAL CONCRETE COLUMN DETAILS
S4.02	TYPICAL CONCRETE DETAILS
S4.03	TYPICAL CONCRETE BEAM DETAILS AND SCHEDULE
S4.04	TYPICAL MILD SLAB DETAILS
S4.05	TYPICAL POST-TENSIONED SLAB DETAILS
S4.06	TYPICAL STUD RAIL DETAILS AND SCHEDULE
S4.07	TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE
S4.08	TYPICAL SHEAR WALL DETAILS
S4.09	TYPICAL COUPLING BEAM DETAILS AND SCHEDULES
S4.11	TYPICAL STEEL DETAILS
S4.12	TYPICAL STEEL DETAILS
S4.13	TYPICAL STEEL BEAM CONNECTIONS TO CONCRETE
S4.14	TYPICAL STEEL DECK DETAILS
S4.15	TYPICAL STEEL DECK DETAILS
S4.16	TYPICAL STEEL DETAILS
S4.21	TYPICAL NON-LOAD BEARING CMU WALL DETAILS
S4.22	TYPICAL NON-LOAD BEARING CMU WALL DETAILS
S4.A.10	TOWER A STEEL COLUMN SCHEDULE
S4.B.10	TOWER B STEEL COLUMN SCHEDULE
S4.C.10	TOWER C STEEL COLUMN SCHEDULE
S5.00	TOWER A & B CONCRETE SECTIONS AND DETAILS
S5.01	TOWER A & B CONCRETE SECTIONS AND DETAILS
S5.02	TOWER A & B CONCRETE SECTIONS AND DETAILS
S5.05	TOWER C CONCRETE SECTIONS AND DETAILS
S5.06	TOWER C CONCRETE SECTIONS AND DETAILS
S6.00	TOWER A & B STEEL SECTIONS AND DETAILS
S6.01	TOWER A & B STEEL SECTIONS AND DETAILS
S6.05	TOWER C STEEL SECTIONS AND DETAILS
S6.06	TOWER C STEEL SECTIONS AND DETAILS

19 DRAWING LIST

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checked by
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date 05/17/2024

revisions:

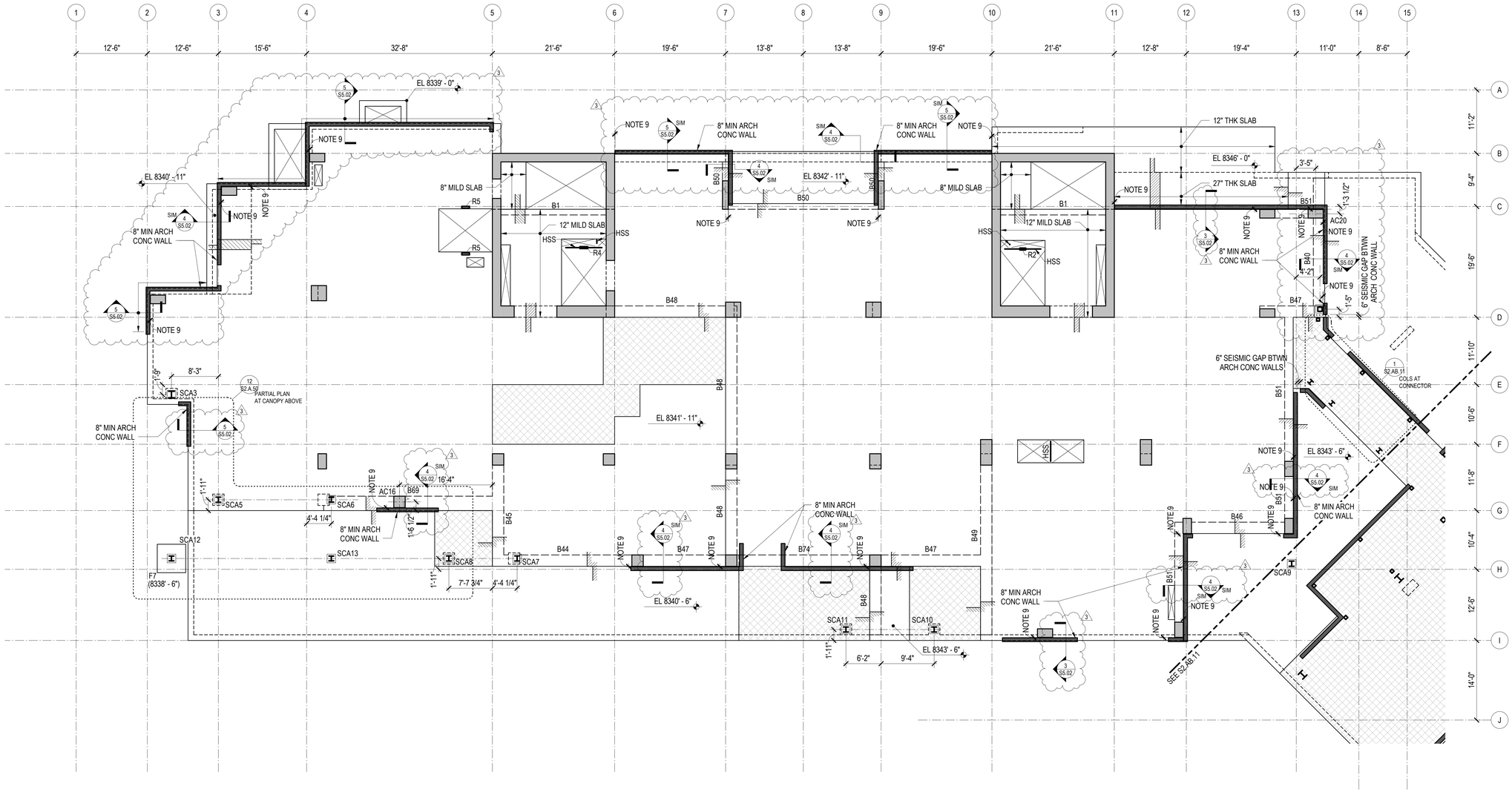
no.	date	by
3	8/19/2024	ASI-004
	04/08/2024	IFC SET 1 OF 3
	11/18/2022	95% CD

IFC SET 2 OF 3

05/17/2024

ABBREVIATIONS, LEGENDS, AND DRAWING LIST

S0.01



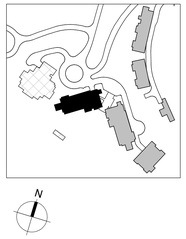
1 TOWER A - LEVEL 1 FRAMING PLAN
1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS

NOTES

1. REFERENCE FLOOR ELEVATION IS 8345' - 0". TOP OF STRUCTURAL CONCRETE SLAB IS 8344' - 11" UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. THE STRUCTURAL SLAB IS A 14-INCH THICK MILD TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE THE TYPICAL MILD SLAB DETAILS.
3. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE SHEAR WALLS.
4. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMNS DIVIDED BY 1.4.
5. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
6. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
7. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
8. [ ] INDICATES TYPICAL BUILT-UP SLAB ON RIGID FOAM. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND ELEVATIONS OF ARCHITECTURAL BUILT-UP SLABS. SEE TYPICAL BUILT-UP SLAB DETAIL FOR ADDITIONAL INFORMATION.
9. WHERE NOTED, ARCHITECTURAL CONCRETE WALLS ARE TO MAINTAIN 1" MINIMUM GAP TO PRIMARY STRUCTURAL COLUMNS/WALLS/SLABS.



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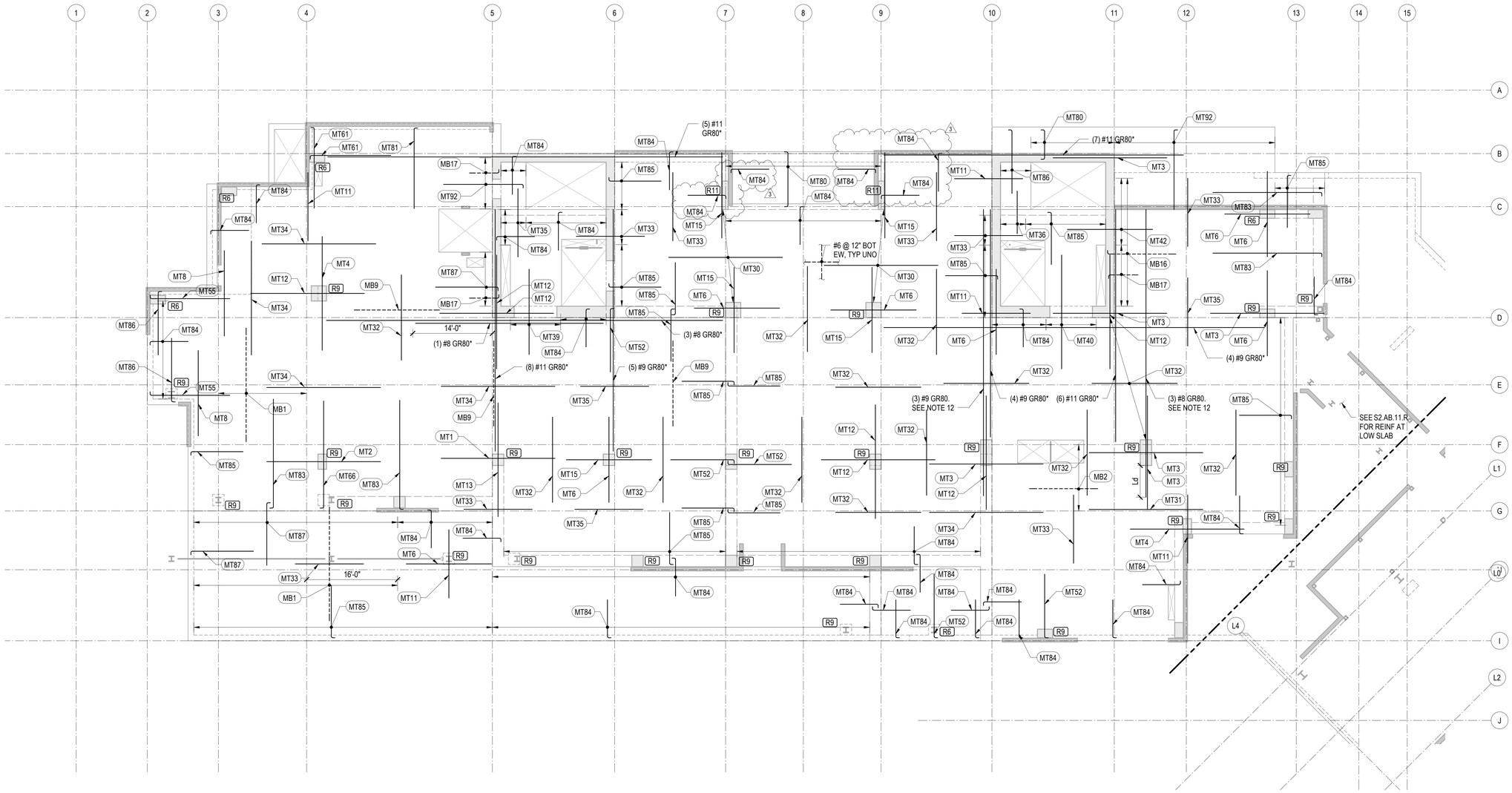
IFC SET 2 OF 3

05/17/2024

TOWER A LEVEL 1 FRAMING PLAN

S2.A.11



1 TOWER A - LEVEL 1 - REINFORCEMENT PLAN

1/8" = 1'-0"

REINFORCING NOTES:

1. SEE "GENERAL NOTES" FOR REINFORCING REQUIREMENTS.
2. SEE "TYPICAL MILD SLAB DETAILS" FOR ADDITIONAL INFORMATION.
3. SLAB REINFORCING SHALL BE PLACED IN THE FOLLOWING SEQUENCE:
   E-W BOTTOM BARS
   N-S BOTTOM BARS
   N-S TOP BARS
   E-W TOP BARS
4. FOR CONTINUOUS BOTTOM BARS, LAP BARS Lsb AS REQUIRED WITH LAPS AT 1/3 THE SLAB SPAN BETWEEN ADJACENT COLUMNS.
5. TWO OF THE CONTINUOUS BOTTOM BARS ARE TO BE PLACED EACH WAY THROUGH ALL COLUMNS WITH COLUMN VERTICAL REINFORCEMENT, UNLESS NOTED OTHERWISE.
6. BOTTOM BARS CALLED OUT ARE IN ADDITION TO CONTINUOUS BOTTOM MAT.
7. RX INDICATES STUD RAIL. STUD RAILS SHALL BE PLACED AT ALL COLUMNS. SEE "TYPICAL STUD RAIL REINFORCEMENT AT COLUMNS" DETAIL AND STUD RAIL SCHEDULE.
8. SEE "TYPICAL CONCRETE OPENINGS AND EMBEDMENTS" FOR ADDITIONAL REINFORCEMENT REQUIREMENTS. NOTIFY STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY. ADDITIONAL REINFORCEMENT MAY BE REQUIRED.
9. WHERE BAR LENGTH CANNOT BE ACHIEVED DUE TO SLAB EDGE, HOOK BAR.
10. WHERE NOTED AS "HOOKED", PROVIDE 90 OR 180 DEGREE HOOK AS SHOWN ON PLAN. NOTED BAR LENGTH IS LENGTH OF STRAIGHT PORTION OF BAR.
11. * INDICATES DIAPHRAGM REINFORCEMENT THAT IS PART OF THE LATERAL FORCE RESISTING SYSTEM AND IS IN ADDITION TO OTHER BARS SHOWN. THIS REINFORCEMENT SHALL BE CENTERED IN SLAB MID-DEPTH, UNO. REINFORCEMENT SHALL MEET CENTER-TO-CENTER SPACING OF 3db BUT NOT LESS THAN 3-INCHES, UNLESS NOTED OTHERWISE. LAP Lsb AS REQUIRED, STAGGER LAPS.
12. WHERE NOTE APPLIES, REINFORCEMENT IS DIAPHRAGM REINFORCEMENT THAT IS PART OF THE LATERAL FORCE RESISTING SYSTEM AND IN ADDITION TO OTHER BARS SHOWN. REINFORCEMENT IS TO BE PLACED WITHIN VERTICALS OF COLUMNS AT GRIDS 10/F OR 11.4/F. REINFORCEMENT SHALL BE CENTERED IN SLAB MID-DEPTH. REINFORCEMENT SHALL MEET CENTER-TO-CENTER SPACING OF 3db BUT NOT LESS THAN 3-INCHES, UNLESS NOTED OTHERWISE. LAP SPLICE IS NOT PERMITTED; PROVIDE MECHANICAL COUPLER IF NECESSARY.

MILD TOP REINFORCEMENT SCHEDULE

MARK	REINFORCING	REMARKS
MT1	(13) #6x20'-0" @ 10"	STAGGER 6'-0"
MT2	(13) #7x20'-0" @ 10"	STAGGER 5'-0"
MT3	(11) #7x20'-0" @ 12"	STAGGER 4'-0"
MT4	(11) #6x20'-0" @ 12"	STAGGER 4'-0"
MT5	(13) #5x15'-0" @ 10"	STAGGER 4'-0"
MT6	(11) #6x15'-0" @ 12"	STAGGER 4'-0"
MT7	(15) #7x15'-0" @ 9"	STAGGER 3'-0"
MT8	(6) #5x15'-0" @ 12"	STAGGER 3'-0"
MT9	(6) #7x15'-0" @ 12"	STAGGER 3'-0"
MT11	(11) #5x12'-0" @ 12"	STAGGER 2'-0"
MT12	(16) #8x20'-0" @ 8"	STAGGER 5'-0"
MT13	(21) #8x20'-0" @ 6"	STAGGER 5'-0"
MT14	(21) #7x20'-0" @ 6"	STAGGER 5'-0"
MT15	(11) #5x15'-0" @ 12"	STAGGER 3'-0"
MT16	(11) #4x12'-0" @ 12"	STAGGER 2'-0"

MILD TOP REINFORCEMENT SCHEDULE

MARK	REINFORCING	REMARKS
MT17	(11) #4x15'-0" @ 12"	STAGGER 3'-0"
MT18	(16) #8x20'-0" @ 8"	STAGGER 5'-0"
MT30	#5x20'-0" @ 12"	STAGGER 3'-0"
MT31	#5x20'-0" @ 10"	STAGGER 2'-0"
MT32	#5x15'-0" @ 12"	STAGGER 2'-0"
MT33	#5x12'-0" @ 12"	STAGGER 2'-0"
MT34	#5x20'-0" @ 12"	STAGGER 4'-0"
MT35	#5x12'-0" @ 12"	STAGGER 1'-0"
MT36	#5x7'-6" @ 12"	STAGGER 0'-0"
MT37	#4x12'-0" @ 12"	STAGGER 1'-0"
MT38	#4x15'-0" @ 12"	STAGGER 1'-0"
MT39	#5x15'-0" @ 8"	STAGGER 2'-0"
MT40	#6x20'-0" @ 12"	STAGGER 4'-0"
MT42	#6x15'-0" @ 12"	STAGGER 2'-0"
MT43	#7x15'-0" @ 6"	STAGGER 3'-0"

MILD TOP REINFORCEMENT SCHEDULE

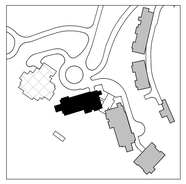
MARK	REINFORCING	REMARKS
MT50	(6) #5x24'-2" @ 12"	HOOK AT END
MT51	(11) #5x6'-8" @ 12"	HOOK AT END
MT52	(11) #5x11'-2" @ 12"	HOOK AT END
MT53	(7) #6x11'-0" @ 12"	HOOK AT END
MT54	(11) #5x14-2" @ 12"	HOOK AT END
MT55	(16) #6x14'-0" @ 8"	HOOK AT END
MT56	(6) #5x14'-2" @ 12"	HOOK AT END
MT57	(6) #6x9'-0" @ 12"	HOOK AT END
MT58	(11) #6x14'-0" @ 12"	HOOK AT END
MT60	(16) #7x10'-10" @ 8"	HOOK AT END
MT61	(11) #5x14'-2" @ 12"	HOOK AT END
MT62	(11) #4x11'-4" @ 12"	HOOK AT END
MT63	(11) #4x14'-4" @ 12"	HOOK AT END
MT64	(11) #4x19'-4" @ 12"	HOOK AT END

MILD TOP REINFORCEMENT SCHEDULE

MARK	REINFORCING	REMARKS
MT65	(11) #4x6'-10" @ 12"	HOOK AT END
MT66	(16) #7x18'-10" @ 8"	HOOK AT END
MT80	#5 @ 12"	HOOK BOTH ENDS
MT81	#5x14'-2" @ 12"	HOOK AT END
MT82	#6x29'-0" @ 12"	HOOK AT END
MT83	#5x19'-2" @ 12"	HOOK AT END
MT84	#5x6'-8" @ 12"	HOOK AT END
MT85	#5x9'-2" @ 12"	HOOK AT END
MT86	#5x11'-2" @ 12"	HOOK AT END
MT87	#6x11'-0" @ 12"	HOOK AT END
MT88	#4x14'-4" @ 12"	HOOK AT END
MT89	#4x6'-10" @ 12"	HOOK AT END
MT90	#4 @ 12"	HOOK BOTH ENDS
MT91	#4x9'-4" @ 12"	HOOK AT END,
MT92	#6x14'-0" @ 12"	HOOK AT END
MT93	#5x19'-2" @ 10"	HOOK AT END
MT97	#7x10'-10" @ 12"	HOOK AT END

MILD BOTTOM REINFORCEMENT SCHEDULE

MARK	REINFORCING	REMARKS
MB1	#5x20'-0" @ 12"	STAGGER 2'-0"
MB2	#5x12'-0" @ 24"	STAGGER 2'-0"
MB4	(3) #5x12'-0" @ 14"	STAGGER 2'-0"
MB5	#5x20'-0" @ 18"	STAGGER 2'-0"
MB6	#5x20'-0" @ 16"	STAGGER 2'-0"
MB7	(6) #5x15'-0" @ 16"	STAGGER 2'-0"
MB8	(11) #5x20'-0" @ 12"	STAGGER 3'-0"
MB9	(3) #5x15'-0" @ 24"	STAGGER 2'-0"
MB15	(6) #5x30'-0" @ 24"	STAGGER 3'-0"
MB16	(11) #4x12'-0" @ 12"	STAGGER 3'-0"
MB17	#6x5'-2" @ 24"	HOOK AT END



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checked by
job no. 20052
date 05/17/2024

revisions:

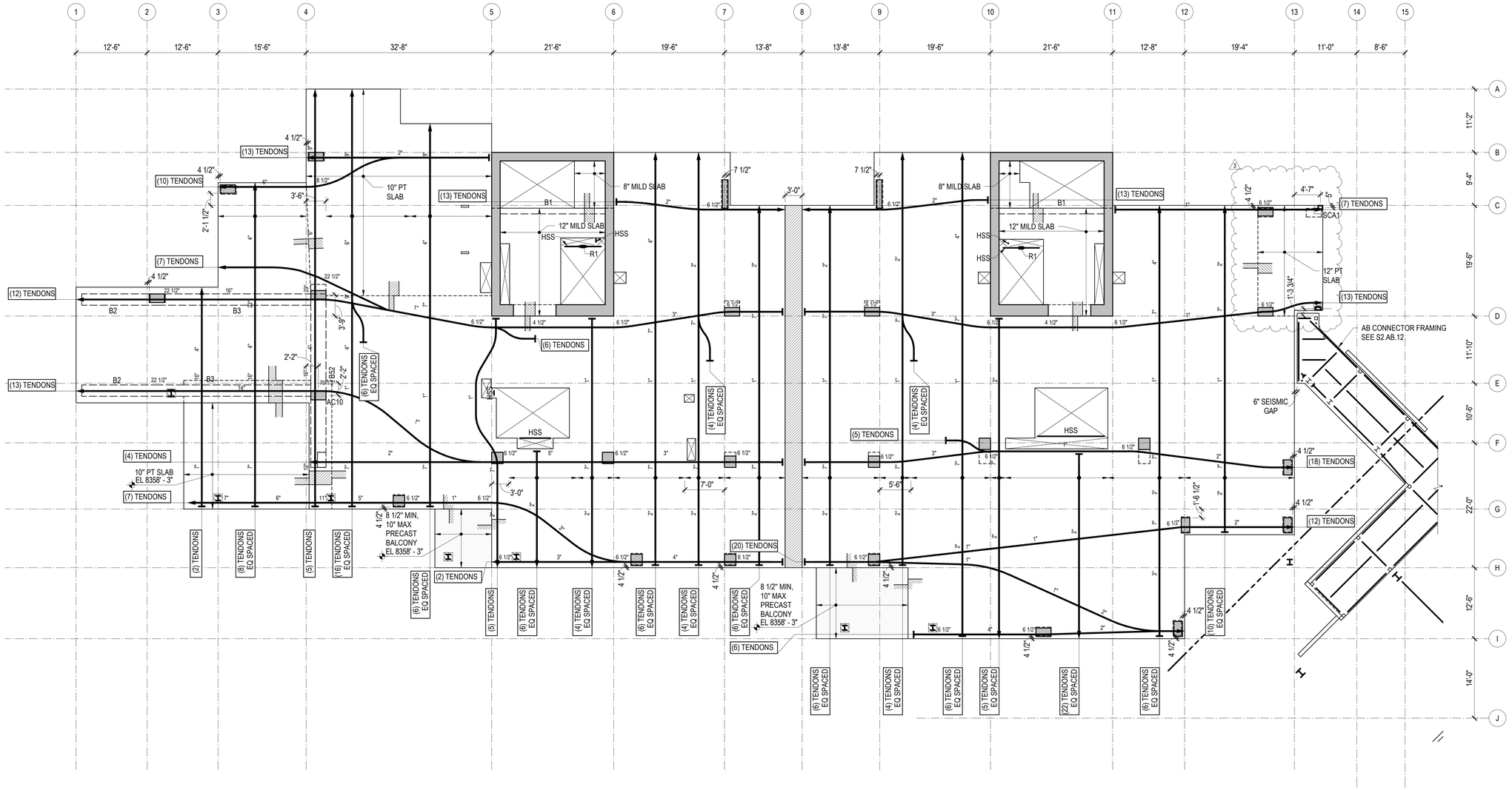
no.	date	by
3	8/19/2024	ASI-004
	04/08/2024	IFC SET 1 OF 3
	11/18/2022	95% CD

IFC SET 2 OF 3

05/17/2024

TOWER A LEVEL 1 REINFORCING PLAN

S2.A.11.R



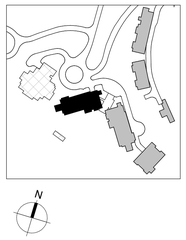
1 TOWER A - LEVEL 2 FRAMING PLAN
1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS

NOTES

1. REFERENCE FLOOR ELEVATION IS 8359' - 0". TOP OF STRUCTURAL CONCRETE SLAB IS 8358' - 11", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
4. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE SHEAR WALLS.
5. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMNS DIVIDED BY 1.4.
6. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
9. INDICATES POUR STRIPS. WAIT 28 DAYS MINIMUM AFTER PLACING SLAB CONCRETE PRIOR TO CASTING POUR STRIPS. SEE "TYPICAL POST-TENSIONED DELAY STRIP" DETAIL FOR MORE INFORMATION.



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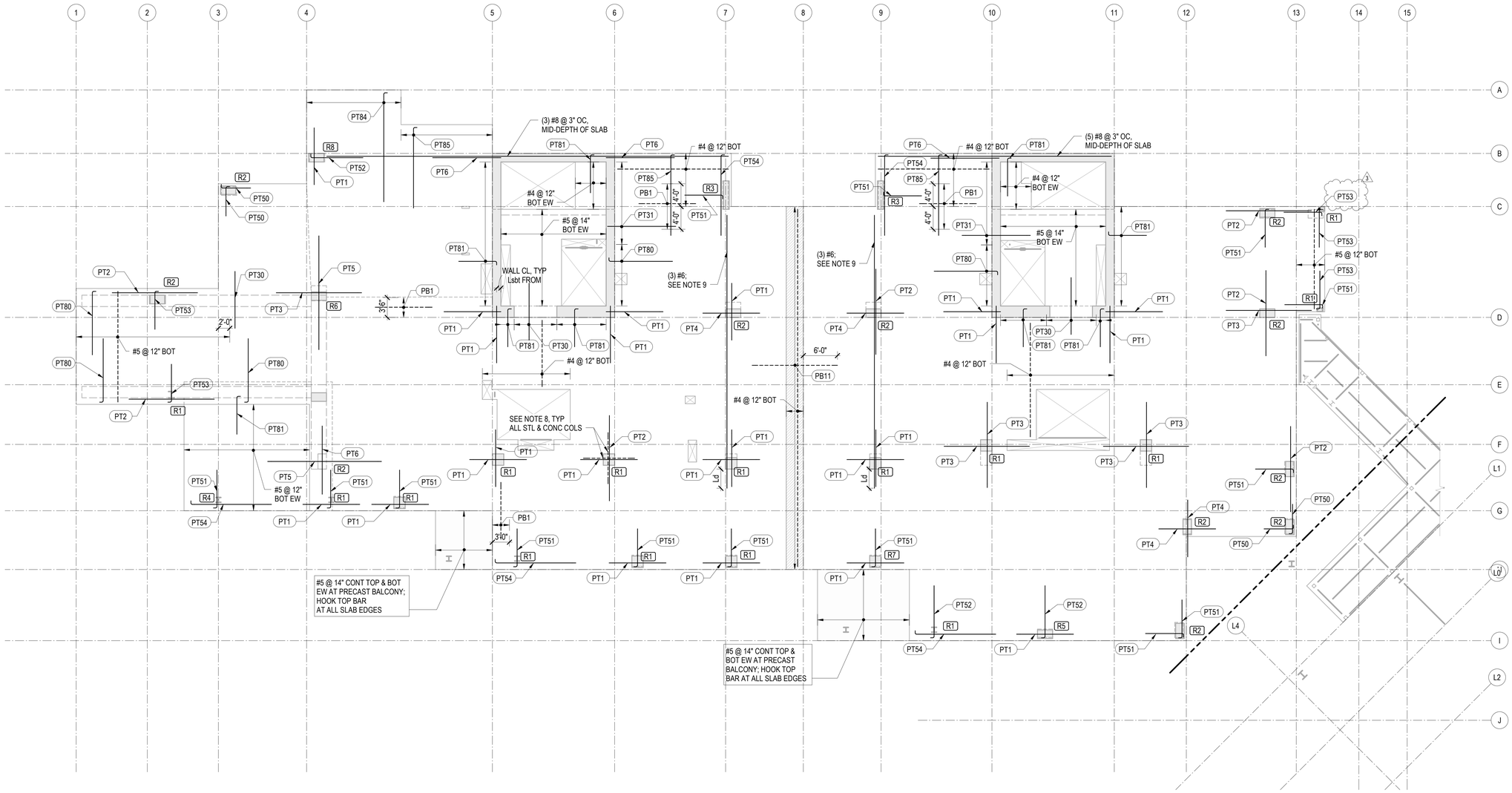
	11/18/2022	95% CD

IFC SET 2 OF 3

05/17/2024

TOWER A LEVEL 2 FRAMING PLAN

S2.A.12



1 TOWER A - LEVEL 2 - REINFORCEMENT PLAN

1/8" = 1'-0"

REINFORCING NOTES:

1. SEE "GENERAL NOTES" FOR REINFORCING REQUIREMENTS.
2. SEE "TYPICAL POST-TENSIONED SLAB DETAILS" FOR ADDITIONAL INFORMATION.
3. SLAB REINFORCING SHALL BE PLACED IN THE FOLLOWING SEQUENCE:
   BOT BARS IN DIRECTION OF DISTRIBUTED TENDONS
   BOT BARS IN DIRECTION OF BANDED TENDONS
   TOP BARS IN DIRECTION OF BANDED TENDONS
   TOP BARS IN DIRECTION OF DISTRIBUTED TENDONS
4. RX INDICATES STUD RAIL. STUD RAILS SHALL BE PLACED AT ALL COLUMNS. SEE "TYPICAL STUD RAIL REINFORCEMENT AT COLUMNS" DETAIL AND STUD RAIL SCHEDULE.
5. SEE "TYPICAL CONCRETE OPENINGS AND EMBEDMENTS" FOR ADDITIONAL REINFORCEMENT REQUIREMENTS. NOTIFY STRUCTURAL ENGINEER OF ANY \ OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY. ADDITIONAL REINFORCEMENT MAY BE REQUIRED.
6. WHERE BAR LENGTH CANNOT BE ACHIEVED DUE TO SLAB EDGE, HOOK BAR.
7. WHERE NOTES AS "HOOKED", PROVIDE 90 OR 180 DEGREE HOOK AS SHOWN ON PLAN. NOTED BAR LENGTH IS LENGTH OF STRAIGHT PORTION OF BAR.
8. PROVIDE INTEGRITY BOTTOM BARS PER STUD RAIL SCHEDULE AT ALL COLUMNS. CENTER REINFORCEMENT ON COLUMNS AND PLACE INTEGRITY BARS EACH WAY WITHIN COLUMN VERTICAL REINFORCEMENT. TRIM AND HOOK AT SLAB EDGE AS REQUIRED.

PT TOP REINFORCEMENT SCHEDULE

MARK	REINFORCING	REMARKS
PT1	(6) #5x10'-0"	
PT2	(6) #5x15'-0"	
PT3	(8) #5x15'-0"	
PT4	(12) #5x10'-0"	
PT5	(10) #5x20'-0"	
PT6	(18) #6x12'-0" @ 5"	STAGGER 3'-0"
PT7	(14) #5x10'-0"	
PT8	(16) #6x20'-0"	
PT9	(14) #6x15'-0"	
PT10	(12) #5x20'-0"	
PT11	(12) #5x15'-0"	
PT30	#5x10'-0"@ 15"	
PT31	#5x12'-0"@ 12"	STAGGER 2'-0"
PT33	#5x6'-0" @ 12"	

PT TOP REINFORCEMENT SCHEDULE

MARK	REINFORCING	REMARKS
PT50	(3) #5x5'-2"	HOOK AT END
PT51	(6) #5x6'-8"	HOOK AT END
PT52	(10) #5x9'-2" 3	HOOK AT END
PT53	(8) #5x6'-8"	HOOK AT END
PT54	(6) #5x14'-2" 3	HOOK AT END
PT55	(8) #5x14'-2"	HOOK AT END
PT56	(16) #5x11'-2"	HOOK AT END
PT57	(16) #5x14'-2"	HOOK AT END
PT58	(12) #5x6'-8"@12"	HOOK AT END
PT59	(14) #5x11'-2"@12"	HOOK AT END
PT80	#5x11'-2" @ 10"	HOOK AT END
PT81	#5x6'-8" @ 10"	HOOK AT END
PT82	#6x9'-0" @ 4"	HOOK AT END
PT83	#6x9'-0" @ 6"	HOOK AT END
PT84	#6x19'-2" @ 12"	HOOK AT END
PT85	#5x14'-2" @ 12"	HOOK AT END

PT BOTTOM REINFORCEMENT SCHEDULE

MARK	REINFORCING	REMARKS
PB1	#5x10'-0" @ 6"	
PB2	#5x15'-0" @ 12"	
PB7	#5x20'-0" @ 12"	
PB11	#5x15'-0" @ 12"	LAP SPLICE AT DELAY STRIP PER 12/S4.05
PB18	#5x9'-2" @ 12"	HOOK AT END; SEE 20/S5.01

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IFC SET 2 OF 3

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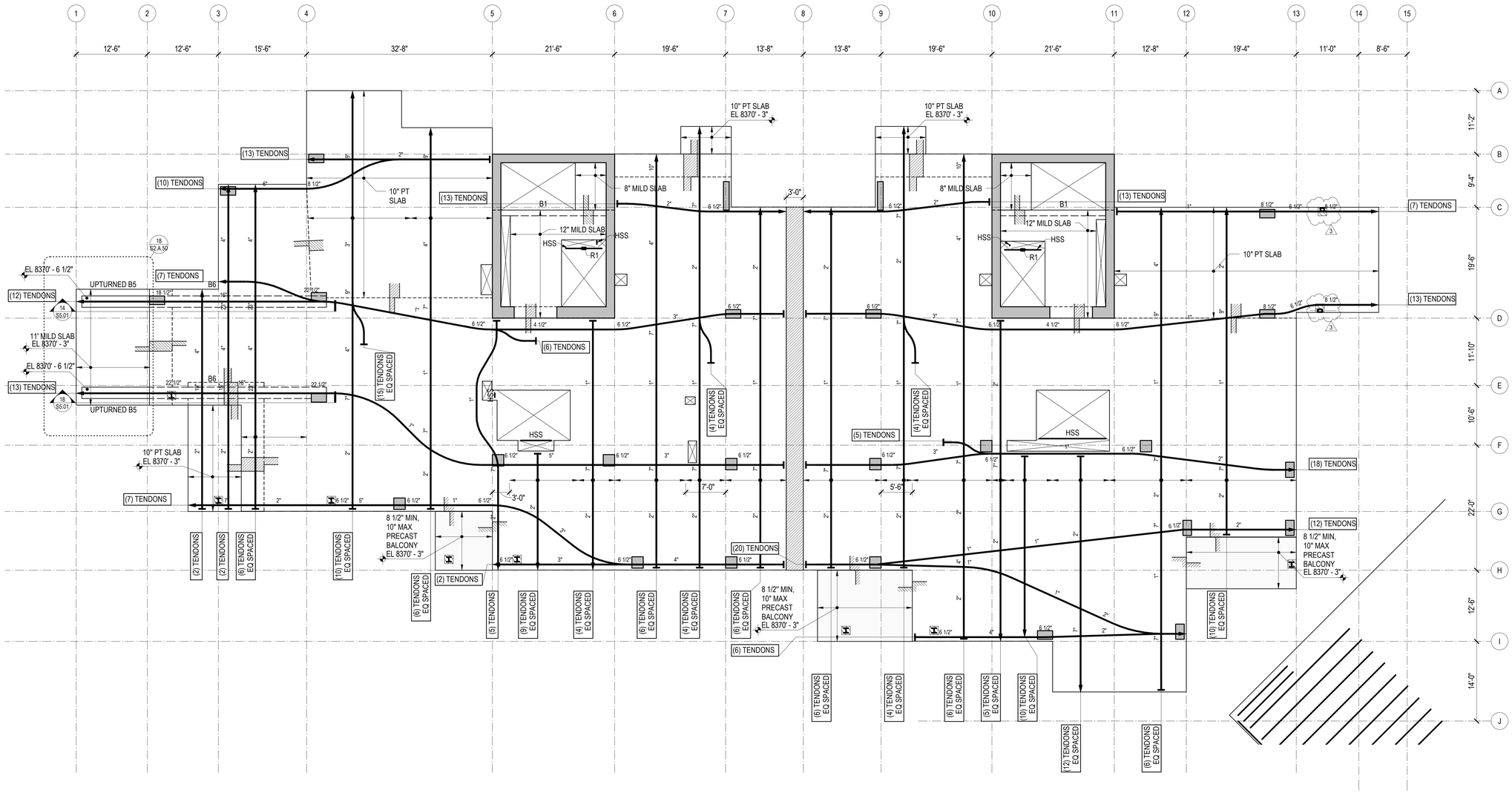
TOWER A LEVEL 2 REINFORCING PLAN

S2.A.12.R



1 TOWER A - LEVEL 3 FRAMING PLAN
1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX LOAD DIAGRAMS
S2.XX PLANS
S3.XX ELEVATIONS
S4.XX TYPICAL DETAILS AND SCHEDULES
S5.XX CONCRETE SECTIONS AND DETAILS
S6.XX STEEL SECTIONS AND DETAILS

NOTES

1. REFERENCE FLOOR ELEVATION IS 8371' - 0". TOP OF STRUCTURAL CONCRETE SLAB IS 8370' - 11", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
4. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE SHEAR WALLS.
5. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMNS DIVIDED BY 1.4.
6. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
9. INDICATES POUR STRIPS. WAIT 28 DAYS MINIMUM AFTER PLACING SLAB CONCRETE PRIOR TO CASTING POUR STRIPS. SEE "TYPICAL POST-TENSIONED DELAY STRIP" DETAIL FOR MORE INFORMATION.

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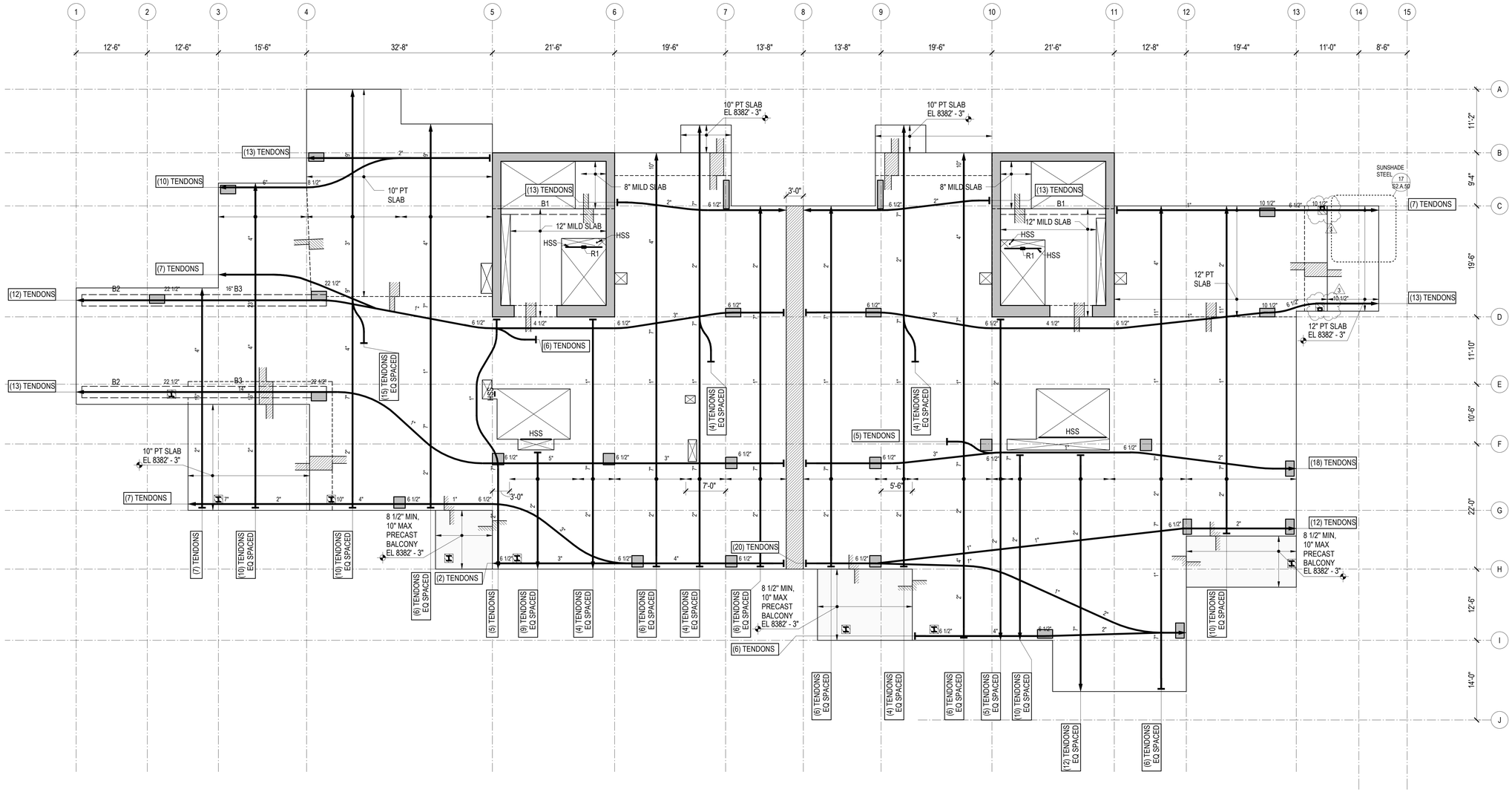
no.	date	by
3	8/19/2024	ASI-004
	04/08/2024	IFC SET 1 OF 3
	11/18/2022	95% CD

IFC SET 2 OF 3

05/17/2024

TOWER A LEVEL 3 FRAMING PLAN

S2.A.13



1 TOWER A - LEVEL 4 FRAMING PLAN
1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS

NOTES

1. REFERENCE FLOOR ELEVATION IS 8383' - 0". TOP OF STRUCTURAL CONCRETE SLAB IS 8382' - 11", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
4. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE SHEAR WALLS.
5. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMNS DIVIDED BY 1.4.
6. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
9. INDICATES POUR STRIPS. WAIT 28 DAYS MINIMUM AFTER PLACING SLAB CONCRETE PRIOR TO CASTING POUR STRIPS. SEE "TYPICAL POST-TENSIONED DELAY STRIP" DETAIL FOR MORE INFORMATION.
10. INDICATES TYPICAL BUILT-UP SLAB ON RIGID FOAM. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND ELEVATIONS OF ARCHITECTURAL BUILT-UP SLABS. SEE TYPICAL BUILT-UP SLAB DETAIL FOR ADDITIONAL INFORMATION.

N

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job no. 20052
date 05/17/2024

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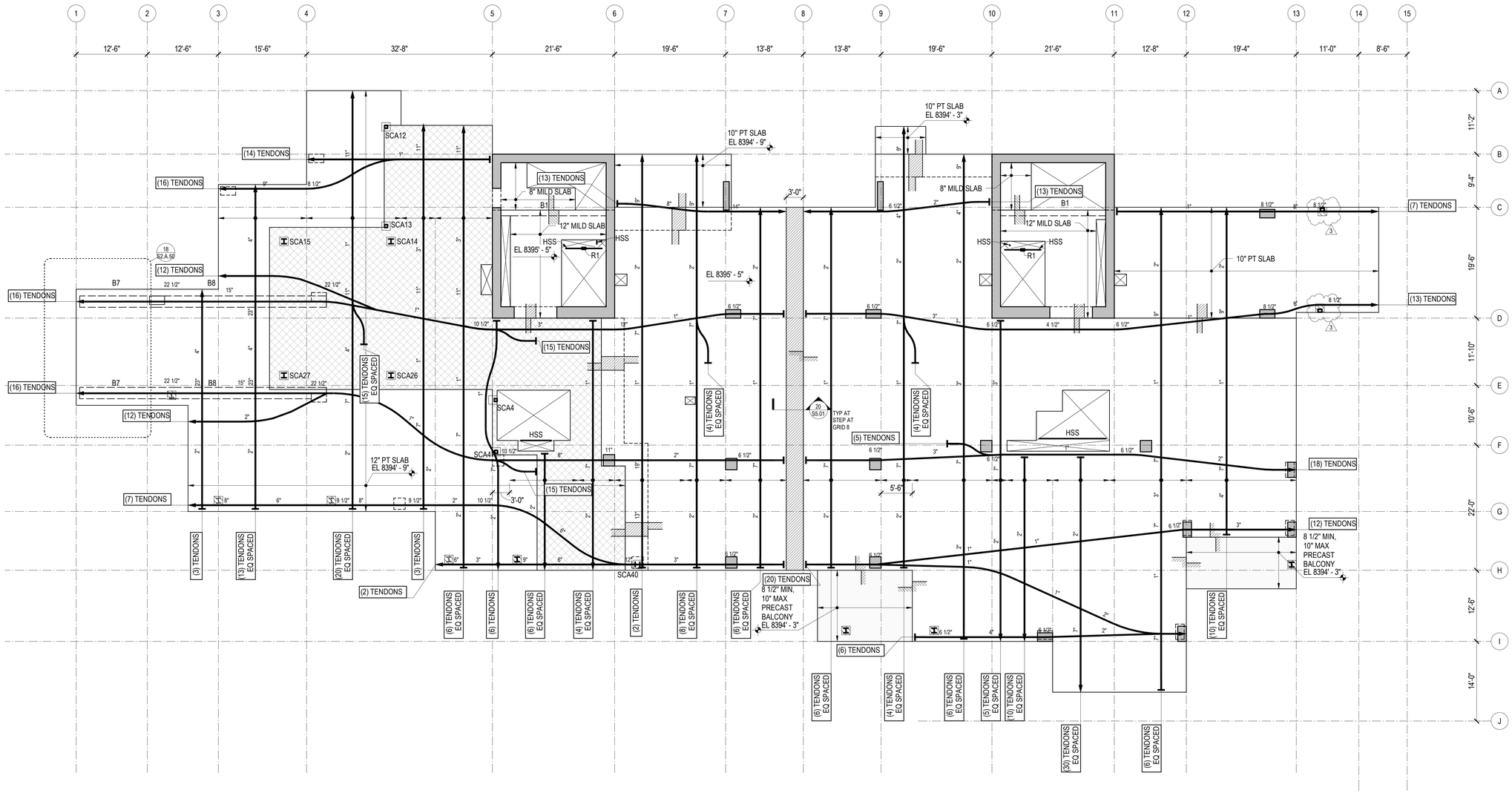
IFC SET 2 OF 3

05/17/2024

TOWER A LEVEL 4 FRAMING PLAN

S2.A.14



1 TOWER A - LEVEL 5 FRAMING PLAN
1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS

NOTES

1. REFERENCE FLOOR ELEVATION IS 8395' - 0". TOP OF STRUCTURAL CONCRETE SLAB IS 8394' - 11", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
4. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE SHEAR WALLS.
5. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMNS DIVIDED BY 1.4.
6. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
9. ▨ INDICATES POUR STRIPS. WAIT 28 DAYS MINIMUM AFTER PLACING SLAB CONCRETE PRIOR TO CASTING POUR STRIPS. SEE "TYPICAL POST-TENSIONED DELAY STRIP" DETAIL FOR MORE INFORMATION.
10. ▭ INDICATES TYPICAL BUILT-UP SLAB ON RIGID FOAM. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND ELEVATIONS OF ARCHITECTURAL BUILT-UP SLABS. SEE TYPICAL BUILT-UP SLAB DETAIL FOR ADDITIONAL INFORMATION.
11. "SC#" INDICATES STEEL COLUMN MARK FOR COLUMNS NOT LOCATED BY GRID. SEE TYPICAL STEEL COLUMN DETAILS AND SCHEDULE FOR ADDITIONAL INFORMATION.

N

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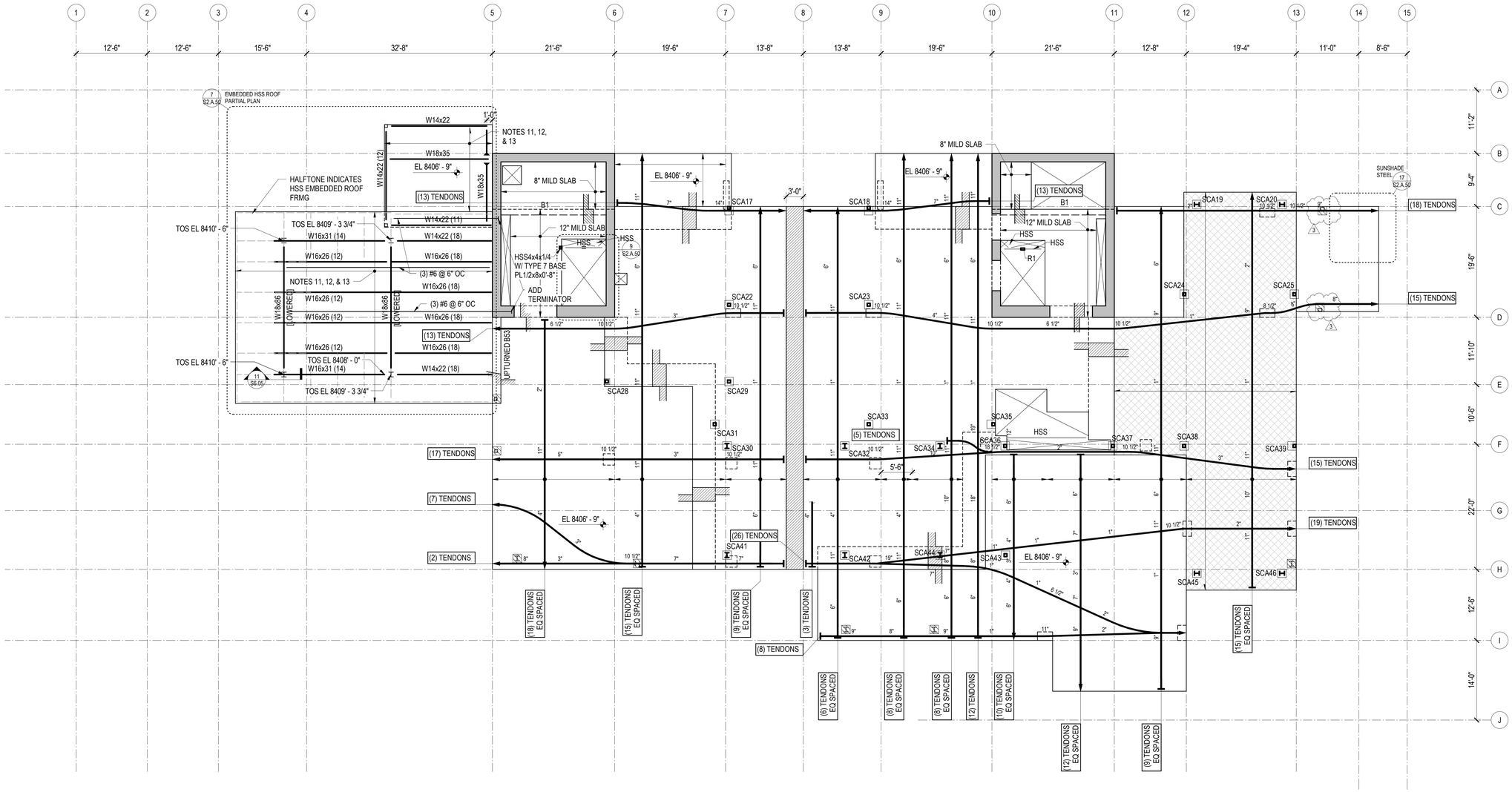
05/17/2024

TOWER A LEVEL 5
FRAMING PLAN

S2.A.15



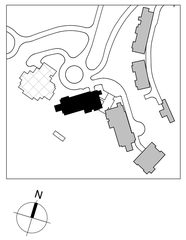
1 TOWER A - LEVEL 6 FRAMING PLAN
1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS

NOTES

1. REFERENCE FLOOR ELEVATION IS 8407' - 6". TOP OF STRUCTURAL CONCRETE SLAB IS 8407' - 5" , UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS A 12-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
4. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE SHEAR WALLS.
5. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMNS DIVIDED BY 1.4.
6. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
9. INDICATES POUR STRIPS. WAIT 28 DAYS MINIMUM AFTER PLACING SLAB CONCRETE PRIOR TO CASTING POUR STRIPS. SEE "TYPICAL POST-TENSIONED DELAY STRIP" DETAIL FOR MORE INFORMATION.
10. INDICATES TYPICAL BUILT-UP SLAB ON RIGID FOAM. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND ELEVATIONS OF ARCHITECTURAL BUILT-UP SLABS. SEE TYPICAL BUILT-UP SLAB DETAIL FOR ADDITIONAL INFORMATION.
11. STRUCTURAL SLAB IS 3-INCHES OF LIGHTWEIGHT CONCRETE ON 3-INCH COMPOSITE STEEL DECK UNLESS NOTED OTHERWISE. REINFORCE WITH WWR 6x6-W2.9xW2.9. SEE TYPICAL SLAB ON STEEL DECK DETAILS FOR REINFORCING AND OTHER INFORMATION. REINFORCING SHOWN ON THE PLAN AND IN THE TYPICAL DETAILS IS IN ADDITION TO THIS REINFORCING.
12. REFERENCE TOP OF STEEL IS AT THE BOTTOM OF SLAB ON STEEL DECK UNLESS NOTED OTHERWISE.
13. STEEL SLOPES UNIFORMLY BETWEEN GIVEN TOP OF STEEL ELEVATIONS. WHERE BEAMS OR BEAMS AND COLUMNS INTERSECT, MATCH TOP OF STEEL UNLESS NOTED OTHERWISE.
14. "SC#" INDICATES STEEL COLUMN MARK FOR COLUMNS NOT LOCATED BY GRID. SEE TYPICAL STEEL COLUMN DETAILS AND SCHEDULE FOR ADDITIONAL INFORMATION.



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checked by
job no. 20052
date 05/17/2024

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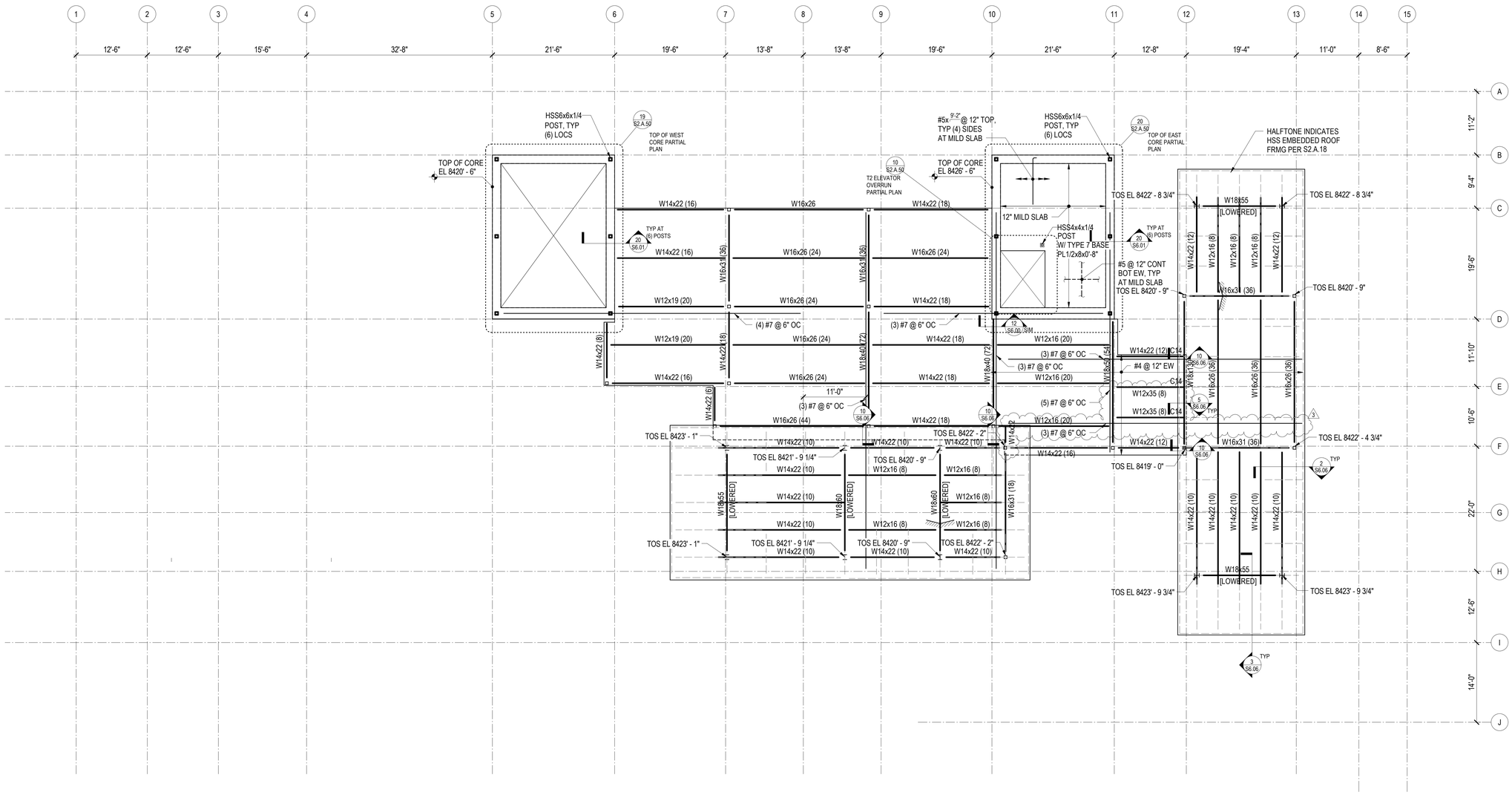
TOWER A LEVEL 6 FRAMING PLAN

S2.A.16



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

REFERENCE DRAWINGS

S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS

NOTES

1. REFERENCE FLOOR ELEVATION IS 8419' - 6". TOP OF SLAB ON STEEL DECK IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS 3-INCHES OF LIGHTWEIGHT CONCRETE ON 3-INCH COMPOSITE STEEL DECK UNLESS NOTED OTHERWISE. REINFORCE WITH WWR 6x6-W2.9xW2.9. SEE TYPICAL SLAB ON STEEL DECK DETAILS FOR REINFORCING AND OTHER INFORMATION. REINFORCING SHOWN ON THE PLAN AND IN THE TYPICAL DETAILS IS IN ADDITION TO THIS REINFORCING.
3. REFERENCE TOP OF STEEL IS AT THE BOTTOM OF SLAB ON STEEL DECK UNLESS NOTED OTHERWISE.
4. STEEL SLOPES UNIFORMLY BETWEEN GIVEN TOP OF STEEL ELEVATIONS. WHERE BEAMS OR BEAMS AND COLUMNS INTERSECT, MATCH TOP OF STEEL UNLESS NOTED OTHERWISE.
5. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING SLABS AND WALLS.
6. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE 'TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE,' 'TYPICAL ROOF DECK OPENINGS,' AND 'TYPICAL COMPOSITE DECK OPENINGS' DETAILS FOR OPENING PLACEMENT CRITERIA AND REINFORCING OR FRAMING REQUIREMENTS. NOTIFY STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
7. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, EDGE ANGLES, AND SLAB PENETRATIONS. REINFORCE PER TYPICAL DETAILS.

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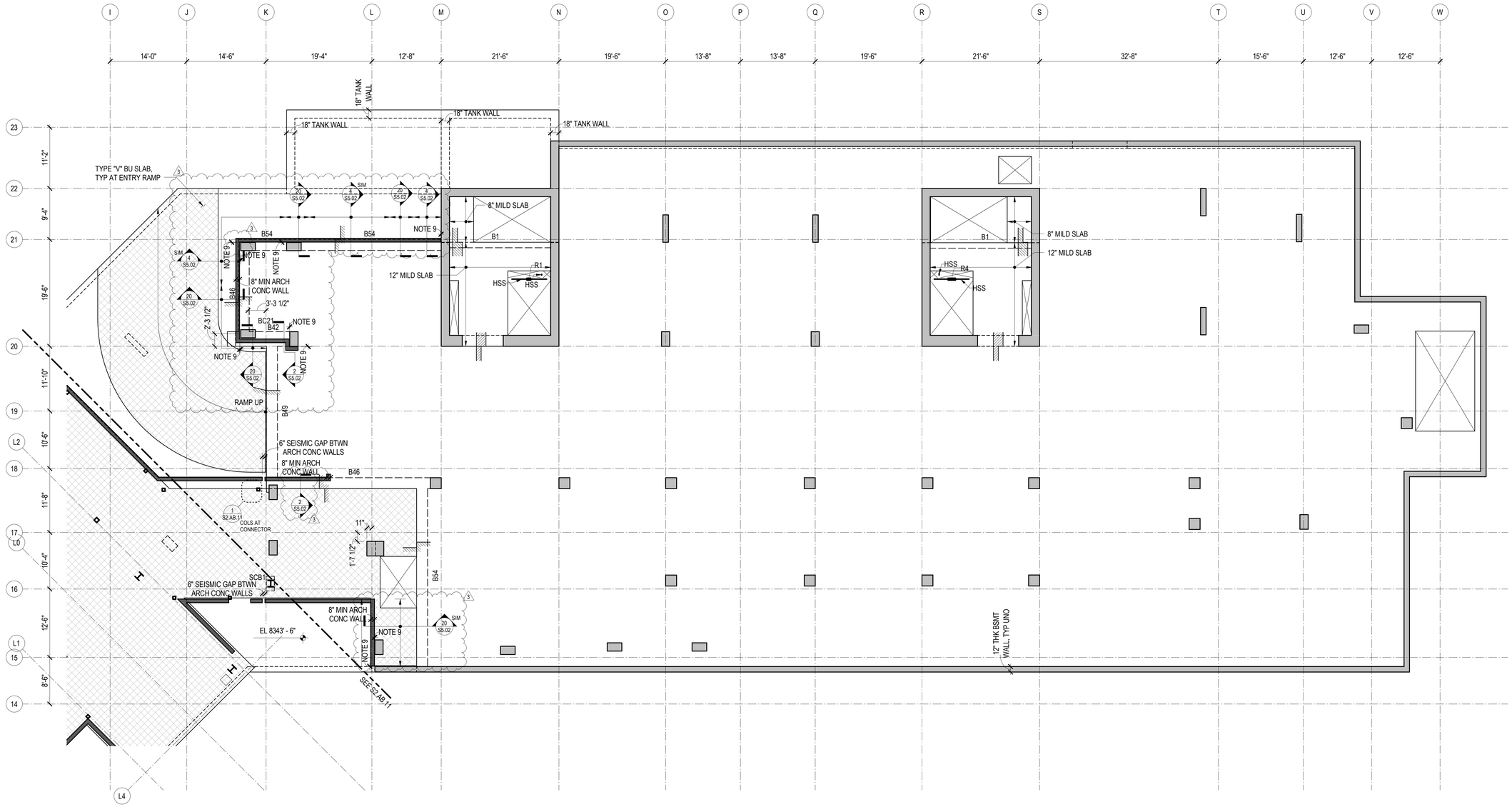
	11/18/2022	95% CD

IFC SET 2 OF 3

05/17/2024

TOWER A ROOF FRAMING PLAN

S2.A.17



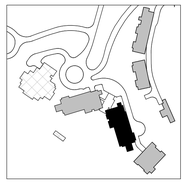
1 TOWER B - PARKING LEVEL 1 FRAMING PLAN
1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS

NOTES

1. REFERENCE FLOOR ELEVATION IS 8345' - 0". TOP OF CONCRETE SLAB IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. THE STRUCTURAL SLAB IS A 14-INCH THICK MILD TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE THE TYPICAL MILD SLAB DETAILS.
3. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE SHEAR WALLS.
4. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMNS DIVIDED BY 1.4.
5. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
6. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
7. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
8. [ ] INDICATES TYPICAL BUILT-UP SLAB ON RIGID FOAM. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND ELEVATIONS OF ARCHITECTURAL BUILT-UP SLABS. SEE TYPICAL BUILT-UP SLAB DETAIL FOR ADDITIONAL INFORMATION.
9. WHERE NOTED ARCHITECTURAL CONCRETE WALLS ARE TO MAINTAIN 1-INCH MINIMUM GAP TO PRIMARY STRUCTURAL COLUMNS / WALLS / SLAB EDGE.



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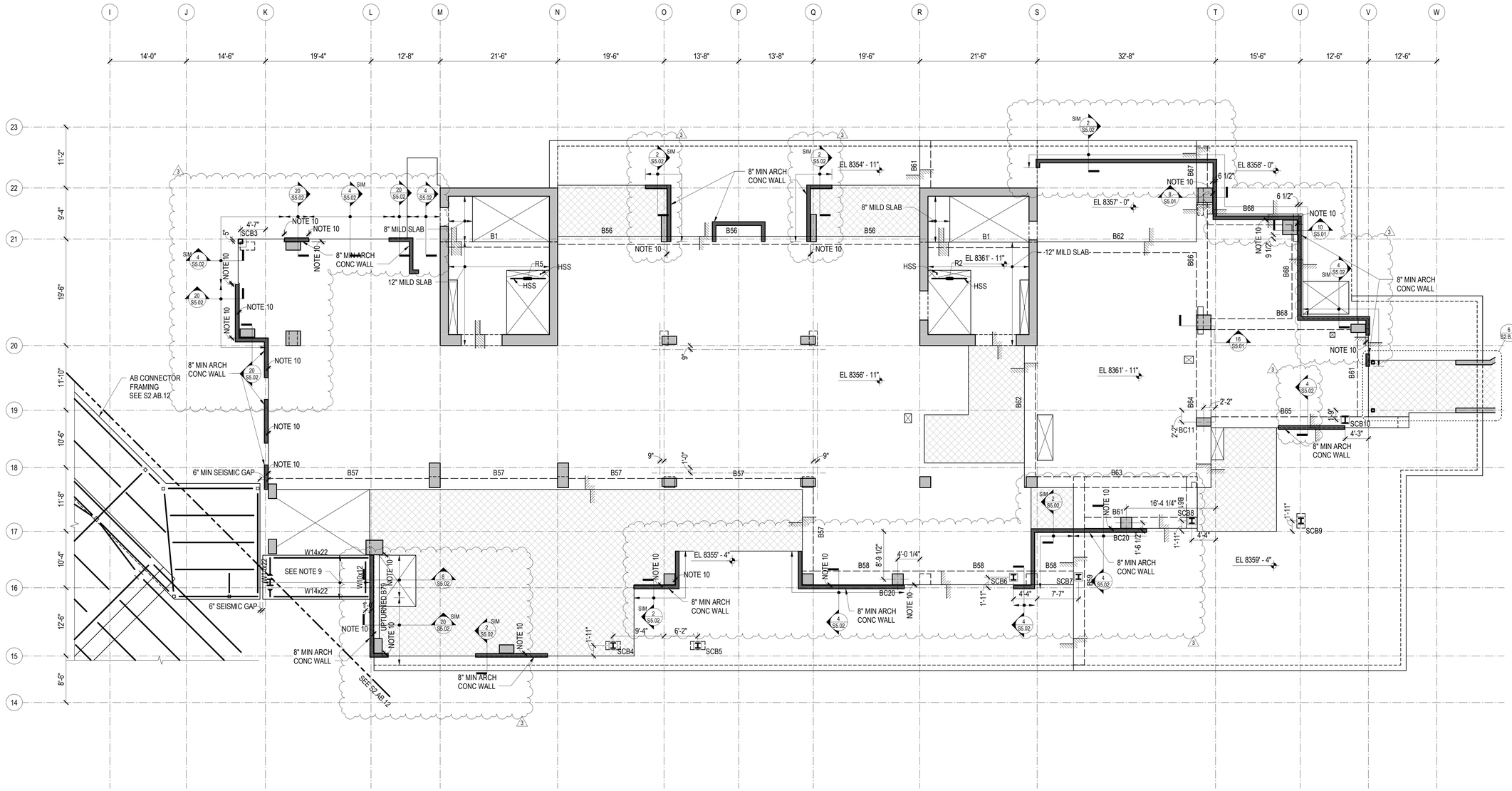
TOWER B LEVEL P1 FRAMING PLAN

S2.B.03



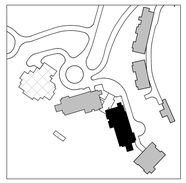
1 TOWER B - LEVEL 1 FRAMING PLAN
1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX LOAD DIAGRAMS
S2.XX PLANS
S3.XX ELEVATIONS
S4.XX TYPICAL DETAILS AND SCHEDULES
S5.XX CONCRETE SECTIONS AND DETAILS
S6.XX STEEL SECTIONS AND DETAILS

NOTES

1. REFERENCE FLOOR ELEVATION IS 8357' - 0". TOP OF STRUCTURAL CONCRETE SLAB IS 8356' - 11", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. THE STRUCTURAL SLAB IS A 14-INCH THICK MILD TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE THE TYPICAL MILD SLAB DETAILS.
3. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE SHEAR WALLS.
4. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMNS DIVIDED BY 1.4.
5. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
6. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
7. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
8. [ ] INDICATES TYPICAL BUILT-UP SLAB ON RIGID FOAM. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND ELEVATIONS OF ARCHITECTURAL BUILT-UP SLABS. SEE TYPICAL BUILT-UP SLAB DETAIL FOR ADDITIONAL INFORMATION.
9. WHERE NOTED, STRUCTURAL SLAB IS 3-INCHES OF LIGHTWEIGHT CONCRETE ON 3-INCH COMPOSITE STEEL DECK. REINFORCE WITH WWR 6x6-W2.9xW2.9. SEE TYPICAL SLAB ON STEEL DECK DETAILS FOR REINFORCING AND OTHER INFORMATION. REINFORCING SHOWN ON THE PLAN AND IN THE TYPICAL DETAILS IS IN ADDITION TO THIS REINFORCING.
10. WHERE NOTED ARCHITECTURAL CONCRETE WALLS ARE TO MAINTAIN 1-INCH MINIMUM GAP TO PRIMARY STRUCTURAL COLUMNS / WALLS / SLAB EDGE.



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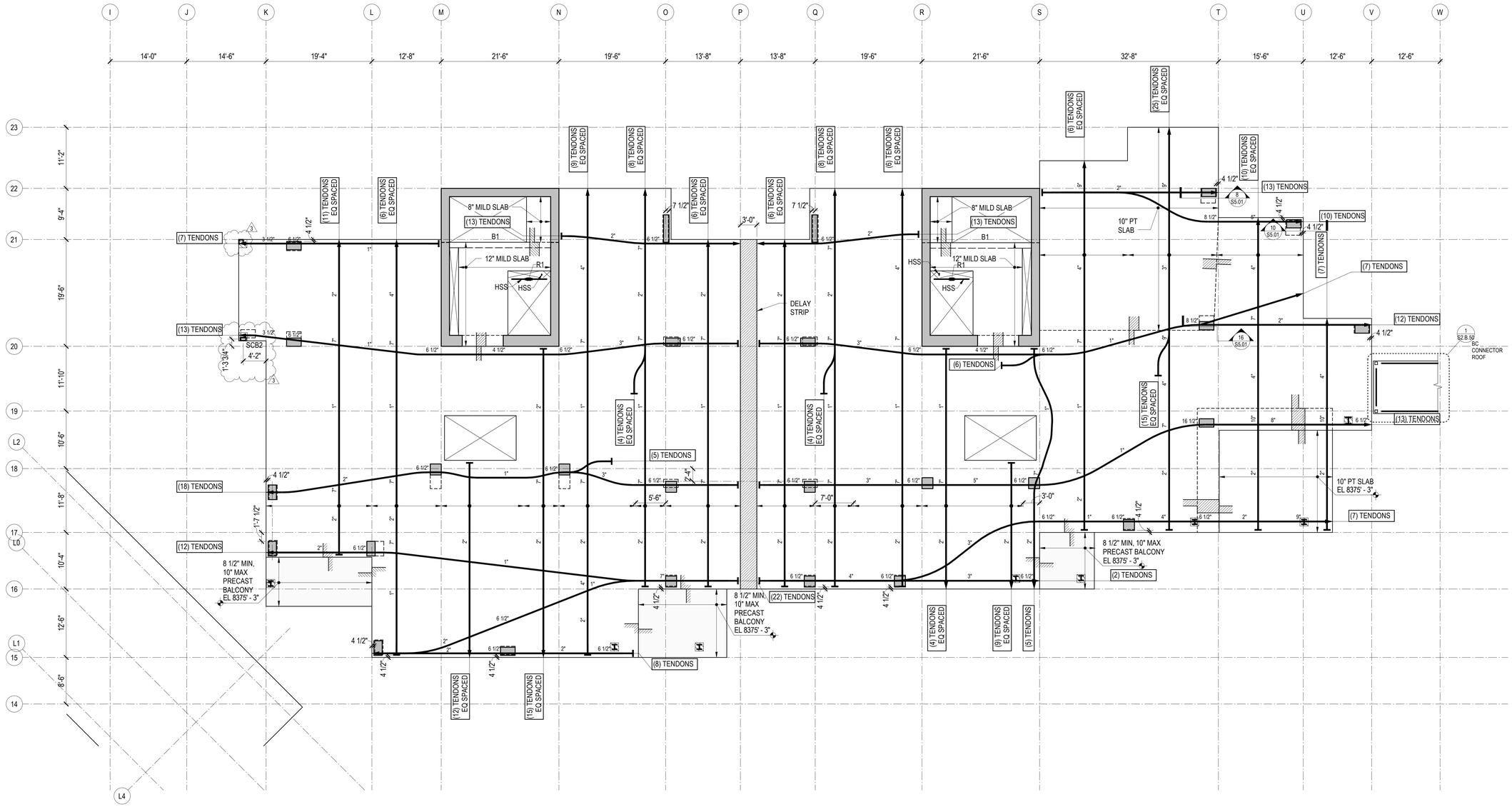
TOWER B LEVEL 1 FRAMING PLAN

S2.B.11



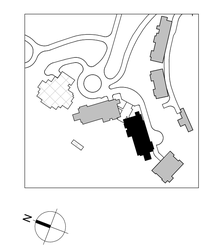
1 TOWER B - LEVEL 2 FRAMING PLAN
1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX LOAD DIAGRAMS
S2.XX PLANS
S3.XX ELEVATIONS
S4.XX TYPICAL DETAILS AND SCHEDULES
S5.XX CONCRETE SECTIONS AND DETAILS
S6.XX STEEL SECTIONS AND DETAILS

NOTES

1. REFERENCE FLOOR ELEVATION IS 8376' - 0". TOP OF STRUCTURAL CONCRETE SLAB IS 8375' - 11", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
4. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE SHEAR WALLS.
5. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMNS DIVIDED BY 1.4.
6. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
9. INDICATES POUR STRIPS. WAIT 28 DAYS MINIMUM AFTER PLACING SLAB CONCRETE PRIOR TO CASTING POUR STRIPS. SEE "TYPICAL POST-TENSIONED DELAY STRIP" DETAIL FOR MORE INFORMATION.



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principal architect
project manager
drawn by
checked by
job no. 20052
date 05/17/2024

revisions:

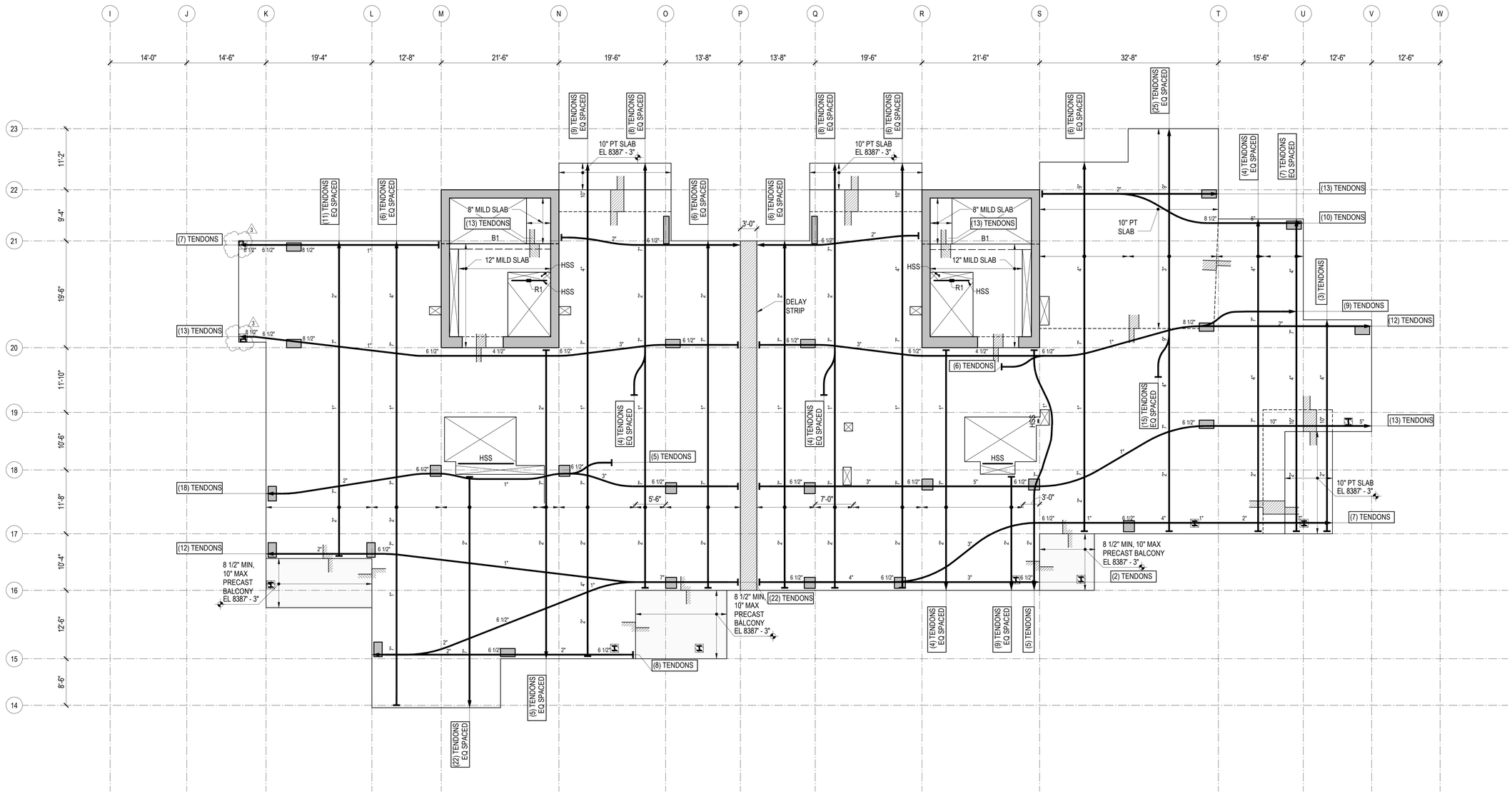
no.	date	by
3	8/19/2024	ASI-004
	04/08/2024	IFC SET 1 OF 3
	11/18/2022	95% CD

IFC SET 2 OF 3

05/17/2024

TOWER B LEVEL 2 FRAMING PLAN

S2.B.12



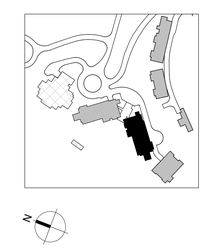
1 TOWER B - LEVEL 3 FRAMING PLAN
1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS

NOTES

1. REFERENCE FLOOR ELEVATION IS 8388' - 0". TOP OF STRUCTURAL CONCRETE SLAB IS 8387' - 11", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
4. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE SHEAR WALLS.
5. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMNS DIVIDED BY 1.4.
6. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
9. INDICATES POUR STRIPS. WAIT 28 DAYS MINIMUM AFTER PLACING SLAB CONCRETE PRIOR TO CASTING POUR STRIPS. SEE "TYPICAL POST-TENSIONED DELAY STRIP" DETAIL FOR MORE INFORMATION.



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revisions:

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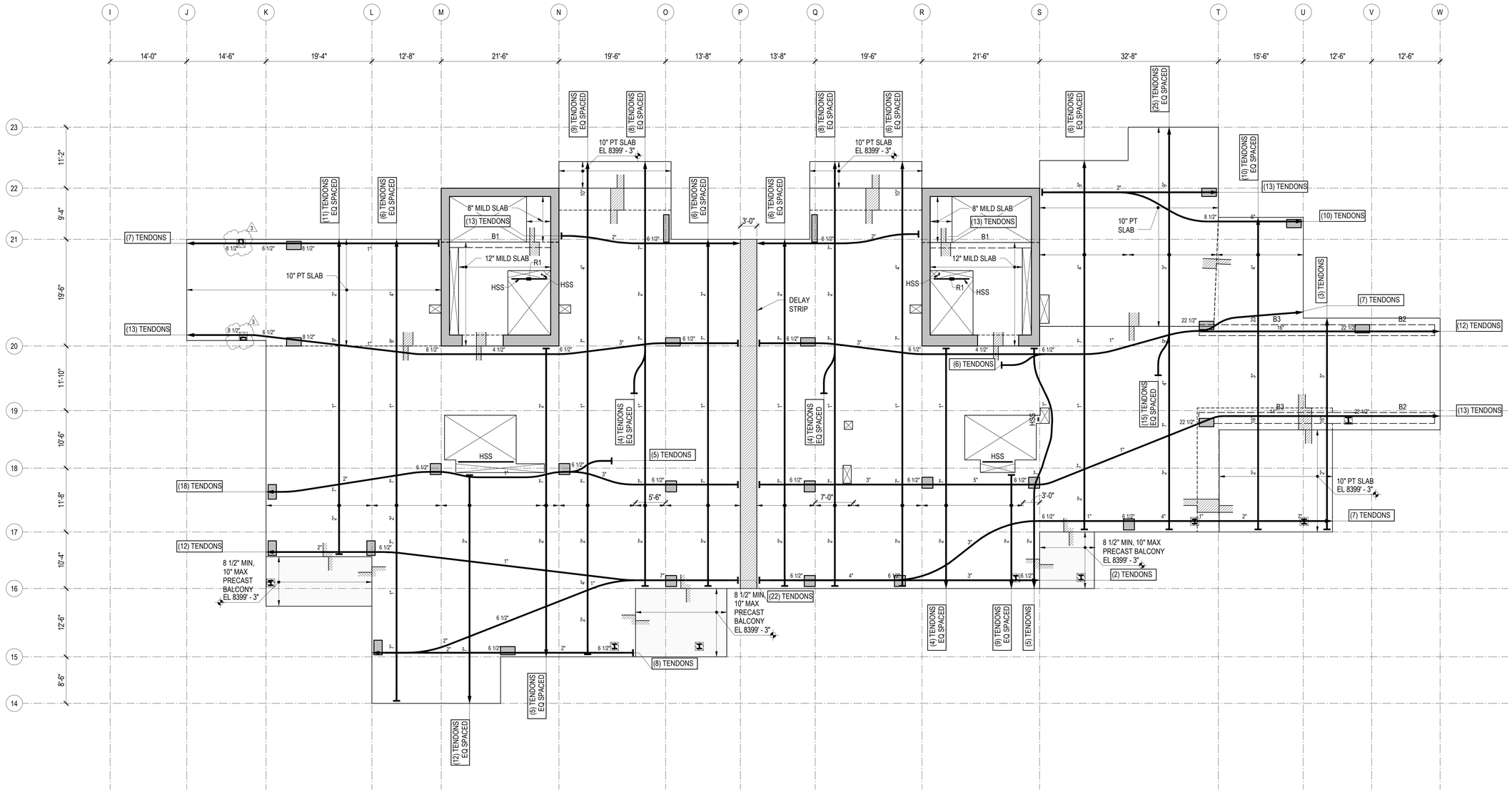
IFC SET 2 OF 3

05/17/2024

TOWER B LEVEL 3 FRAMING PLAN

S2.B.13



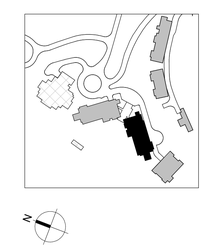
1 TOWER B - LEVEL 4 FRAMING PLAN
1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX LOAD DIAGRAMS
S2.XX PLANS
S3.XX ELEVATIONS
S4.XX TYPICAL DETAILS AND SCHEDULES
S5.XX CONCRETE SECTIONS AND DETAILS
S6.XX STEEL SECTIONS AND DETAILS

NOTES

1. REFERENCE FLOOR ELEVATION IS 8400' - 0". TOP OF STRUCTURAL CONCRETE SLAB IS 8399' - 11", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
4. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE SHEAR WALLS.
5. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMNS DIVIDED BY 1.4.
6. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
9. INDICATES POUR STRIPS. WAIT 28 DAYS MINIMUM AFTER PLACING SLAB CONCRETE PRIOR TO CASTING POUR STRIPS. SEE "TYPICAL POST-TENSIONED DELAY STRIP" DETAIL FOR MORE INFORMATION.



N

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principal architect
project manager
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checked by
job no. 20052
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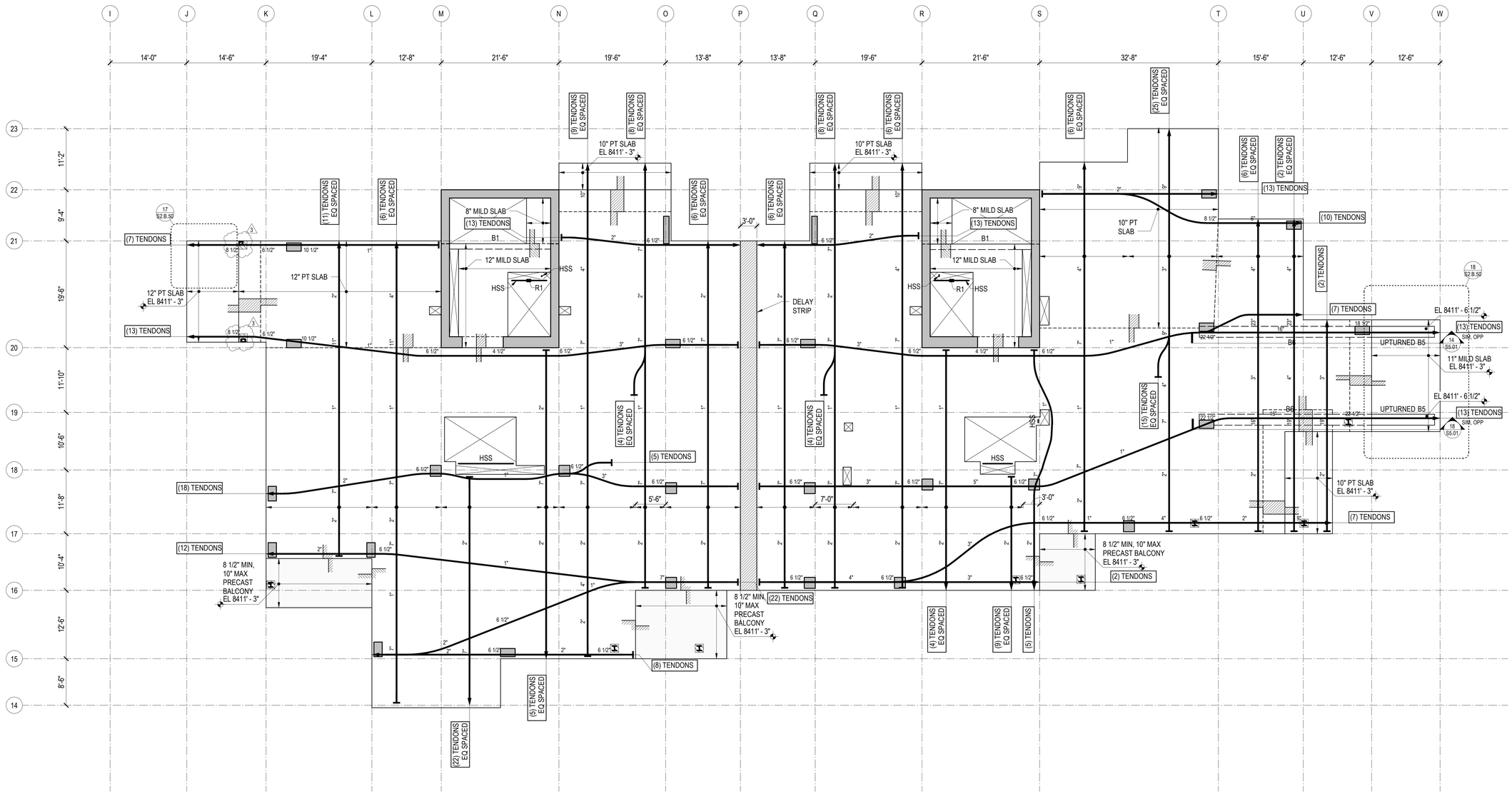
TOWER B LEVEL 4 FRAMING PLAN

S2.B.14



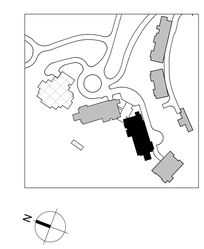
1 TOWER B - LEVEL 5 FRAMING PLAN
1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX LOAD DIAGRAMS
S2.XX PLANS
S3.XX ELEVATIONS
S4.XX TYPICAL DETAILS AND SCHEDULES
S5.XX CONCRETE SECTIONS AND DETAILS
S6.XX STEEL SECTIONS AND DETAILS

NOTES

1. REFERENCE FLOOR ELEVATION IS 8412' - 0". TOP OF STRUCTURAL CONCRETE SLAB IS 8411' - 11", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
4. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE SHEAR WALLS.
5. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMNS DIVIDED BY 1.4.
6. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
9. INDICATES POUR STRIPS. WAIT 28 DAYS MINIMUM AFTER PLACING SLAB CONCRETE PRIOR TO CASTING POUR STRIPS. SEE "TYPICAL POST-TENSIONED DELAY STRIP" DETAIL FOR MORE INFORMATION.



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principal architect
project manager
drawn by
checked by
job no. 20052
date 05/17/2024

revisions:

no.	date	by
3	8/19/2024	ASI-004
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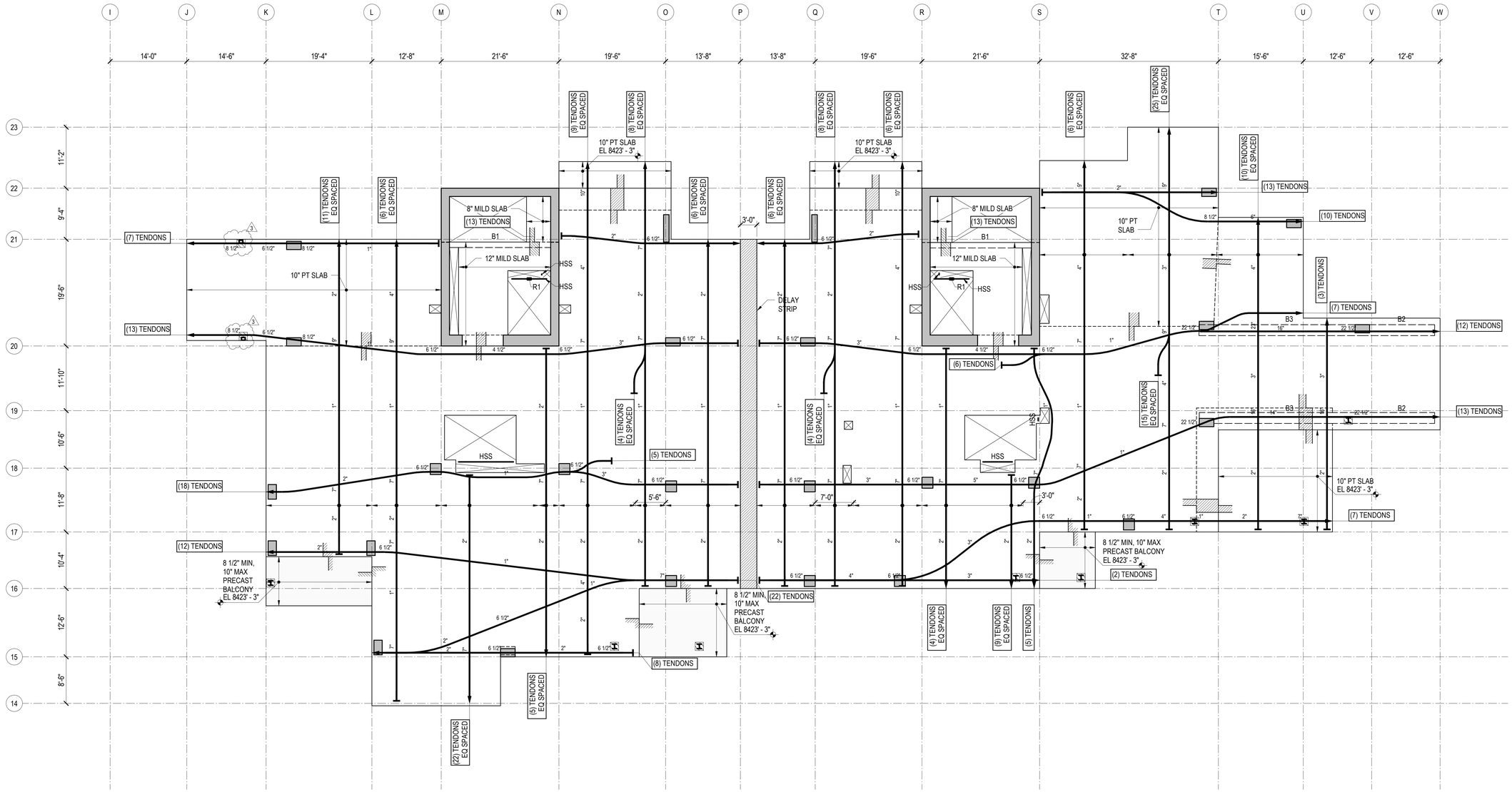
IFC SET 2 OF 3

05/17/2024

TOWER B LEVEL 5 FRAMING PLAN

S2.B.15



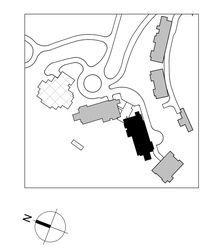
1 TOWER B - LEVEL 6 FRAMING PLAN
1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS

NOTES

1. REFERENCE FLOOR ELEVATION IS 8424' - 0". TOP OF STRUCTURAL CONCRETE SLAB IS 8423' - 11", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
4. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE SHEAR WALLS.
5. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMNS DIVIDED BY 1.4.
6. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
9. INDICATES POUR STRIPS. WAIT 28 DAYS MINIMUM AFTER PLACING SLAB CONCRETE PRIOR TO CASTING POUR STRIPS. SEE "TYPICAL POST-TENSIONED DELAY STRIP" DETAIL FOR MORE INFORMATION.
10. INDICATES TYPICAL BUILT-UP SLAB ON RIGID FOAM. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND ELEVATIONS OF ARCHITECTURAL BUILT-UP SLABS. SEE TYPICAL BUILT-UP SLAB DETAIL FOR ADDITIONAL INFORMATION.



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principal architect
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drawn by
checked by
job no. 20052
date 05/17/2024

revisions:

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3	8/19/2024	ASI-004
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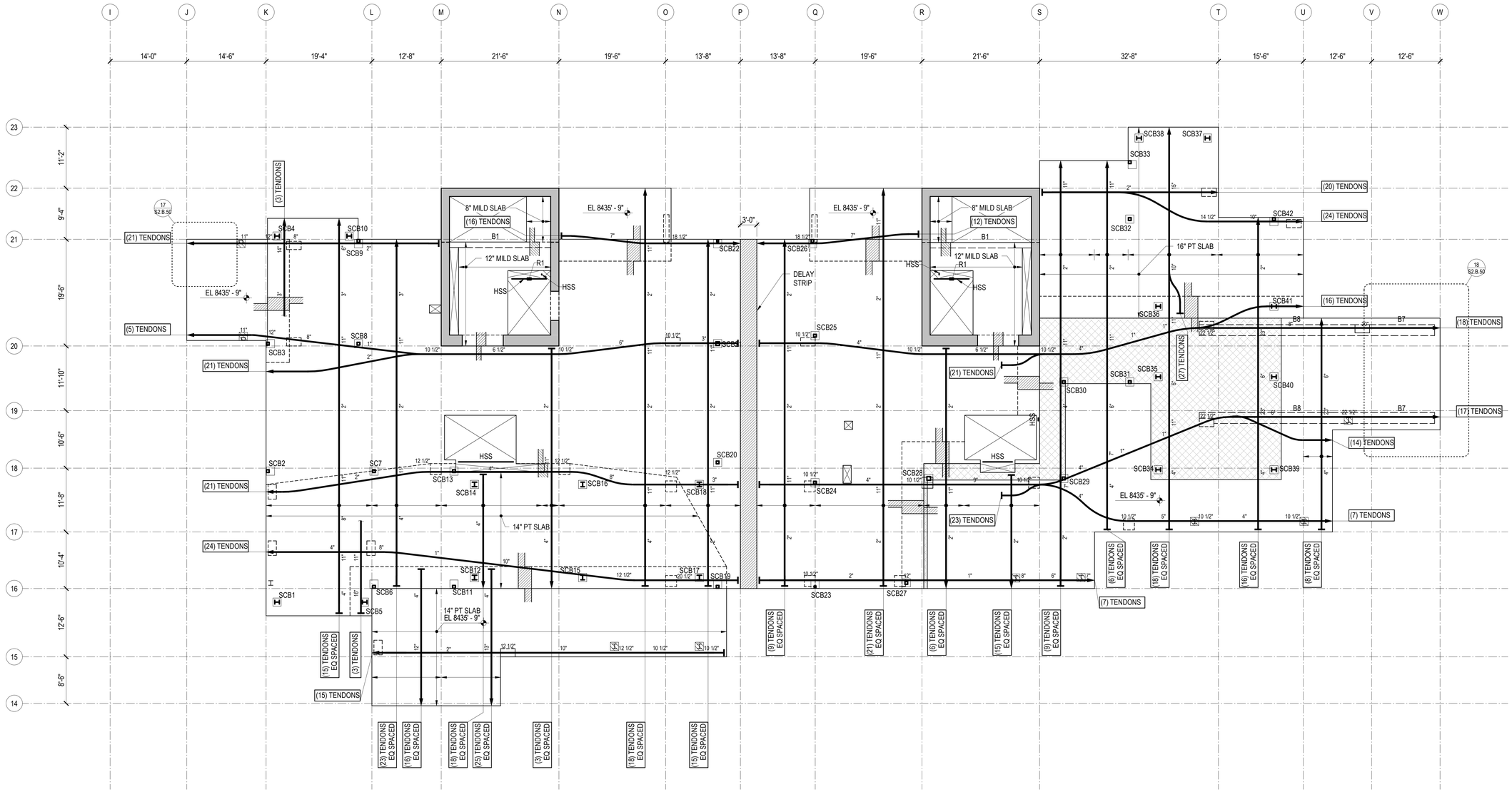
TOWER B LEVEL 6 FRAMING PLAN

S2.B.16



1 TOWER B - LEVEL 7 FRAMING PLAN
1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS

NOTES

1. REFERENCE FLOOR ELEVATION IS 8436' - 6" . TOP OF STRUCTURAL CONCRETE SLAB IS 8436' - 5" , UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS A 12-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
4. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE SHEAR WALLS.
5. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMNS DIVIDED BY 1.4.
6. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
9. INDICATES POUR STRIPS. WAIT 28 DAYS MINIMUM AFTER PLACING SLAB CONCRETE PRIOR TO CASTING POUR STRIPS. SEE "TYPICAL POST-TENSIONED DELAY STRIP" DETAIL FOR MORE INFORMATION.
10. INDICATES TYPICAL BUILT-UP SLAB ON RIGID FOAM. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND ELEVATIONS OF ARCHITECTURAL BUILT-UP SLABS. SEE TYPICAL BUILT-UP SLAB DETAIL FOR ADDITIONAL INFORMATION.
11. "SC#" INDICATES STEEL COLUMN MARK FOR COLUMNS NOT LOCATED BY GRID. SEE TYPICAL STEEL COLUMN DETAILS AND SCHEDULE FOR ADDITIONAL INFORMATION.

N

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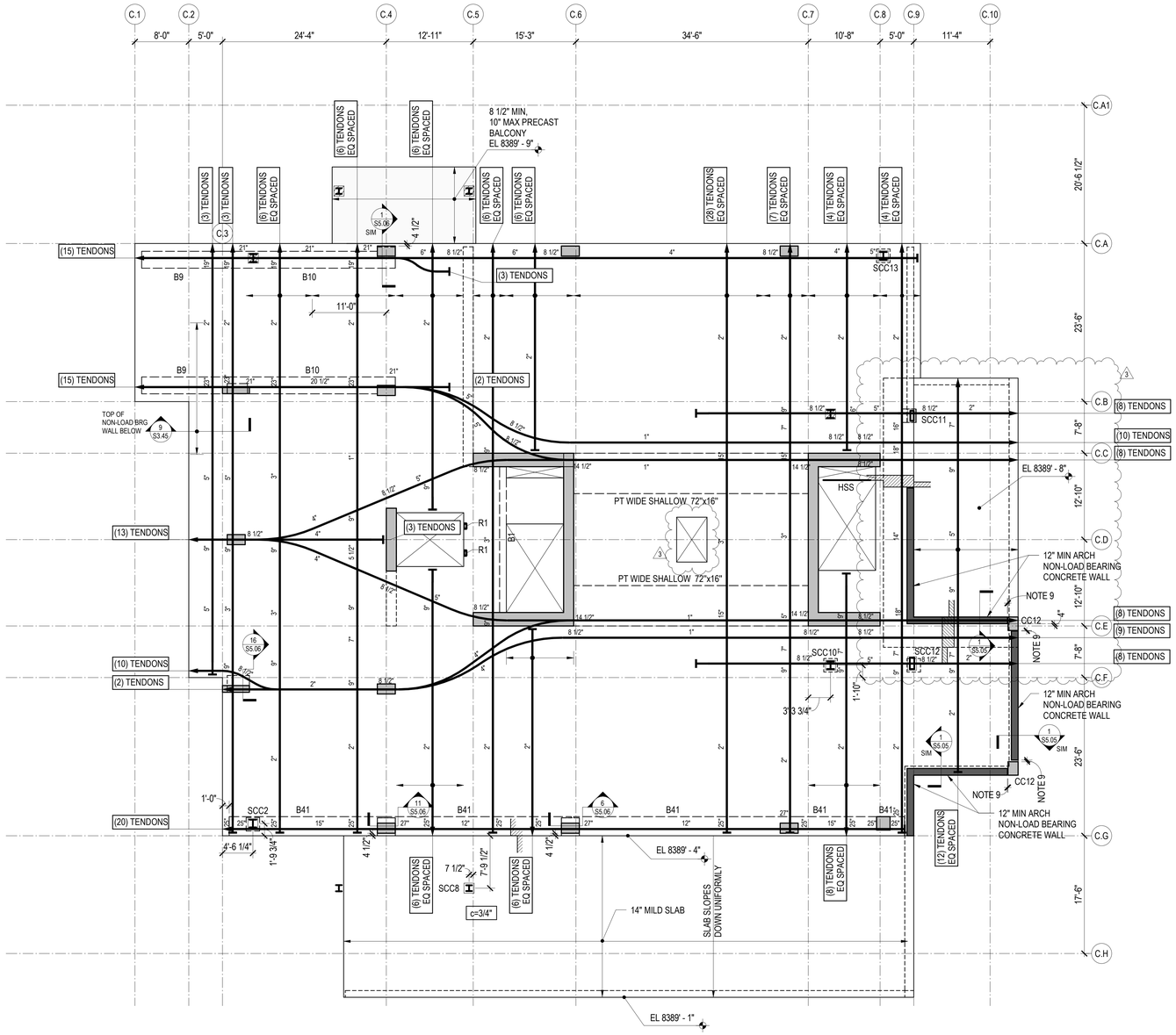
TOWER B LEVEL 7 FRAMING PLAN

S2.B.17



1 TOWER C - LEVEL 2 FRAMING PLAN

1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS

NOTES:

1. REFERENCE FLOOR ELEVATION IS 8390' - 6". TOP OF STRUCTURAL CONCRETE SLAB IS 8390' - 5", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS A 10-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
4. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE SHEAR WALLS.
5. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMNS DIVIDED BY 1.4.
6. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
9. WHERE NOTED, ARCHITECTURAL CONCRETE WALLS ARE TO MAINTAIN 1" MINIMUM GAP TO PRIMARY STRUCTURAL COLUMNS/WALLS/SLABS.

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job no. 20052
date 05/17/2024

revisions:

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3	8/19/2024	ASI-004
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1	05/17/2024	IFC 2
	04/08/2024	IFC SET 1 OF 3
	11/18/2022	95% CD

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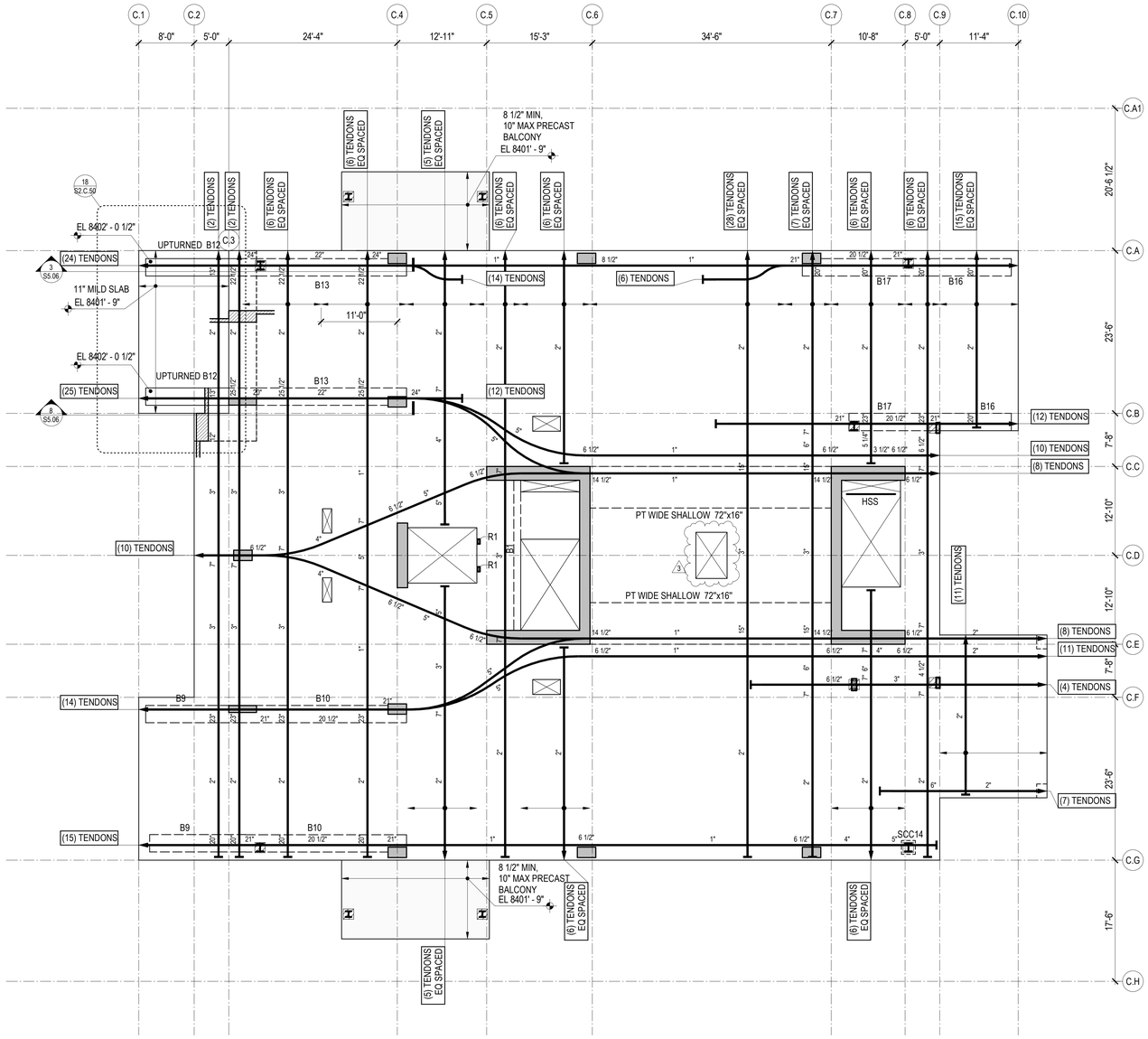
TOWER C LEVEL 2
FRAMING PLAN

S2.C.12



1 TOWER C - LEVEL 3 FRAMING PLAN

1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS

NOTES:

1. REFERENCE FLOOR ELEVATION IS 8402' - 6". TOP OF STRUCTURAL CONCRETE SLAB IS 8402' - 5", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
4. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMN DIVIDED BY 1.4.
5. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
6. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
7. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.

N

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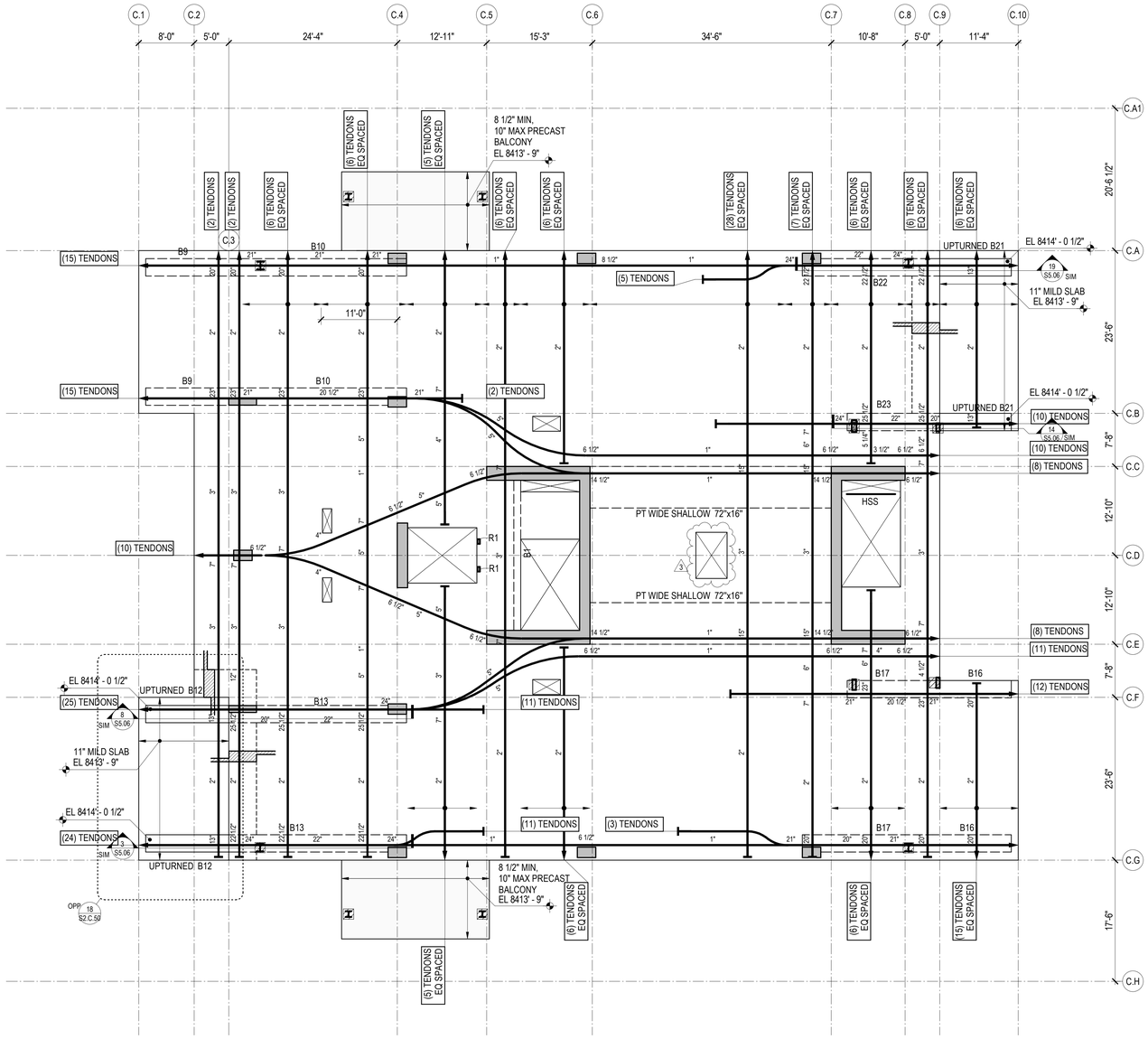
TOWER C LEVEL 3 FRAMING PLAN

S2.C.13



1 TOWER C - LEVEL 4 FRAMING PLAN

1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS

NOTES:

1. REFERENCE FLOOR ELEVATION IS 8414' - 6". TOP OF STRUCTURAL CONCRETE SLAB IS 8414' - 5", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
4. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMN DIVIDED BY 1.4.
5. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
6. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
7. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.

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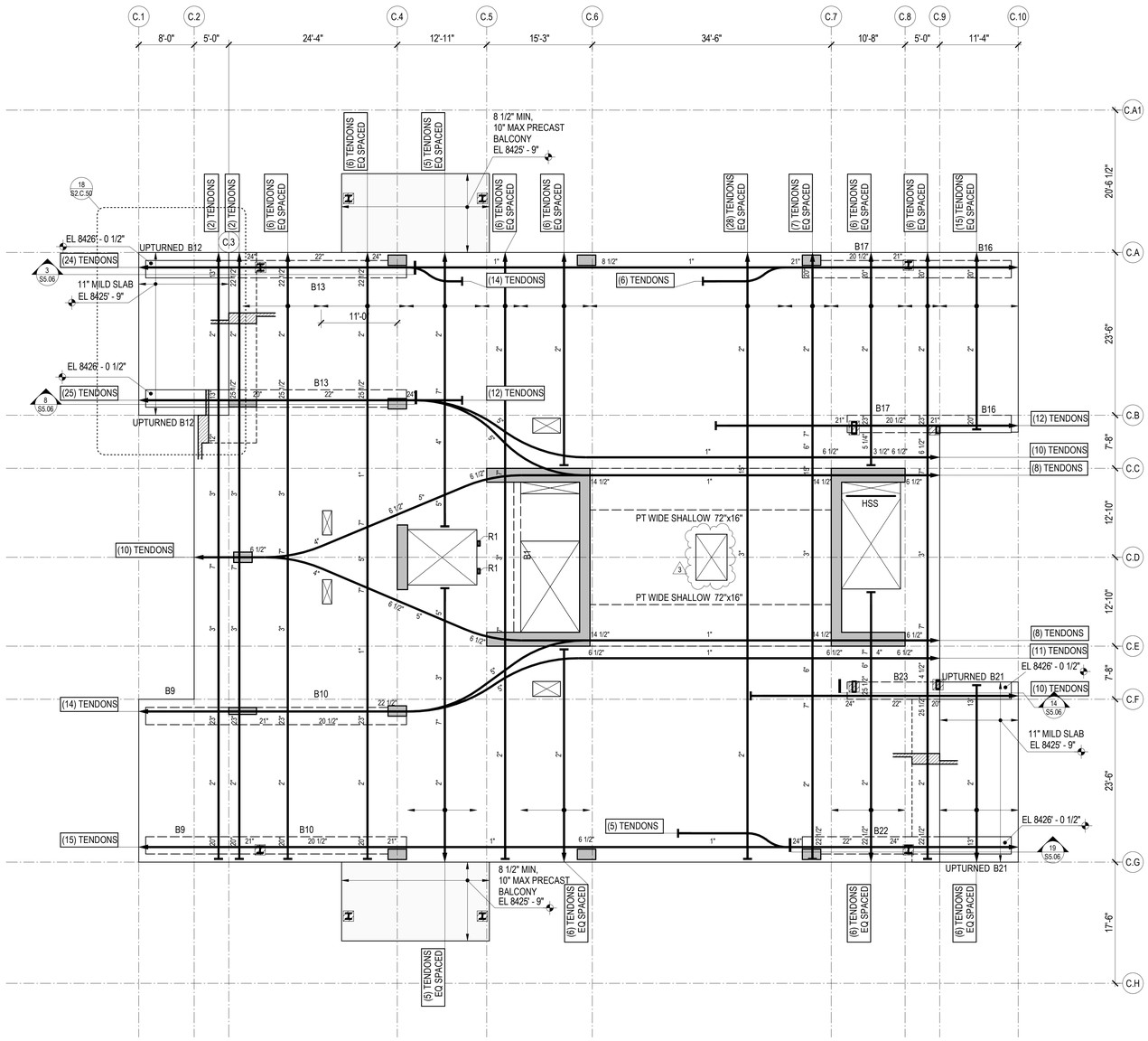
TOWER C LEVEL 4
FRAMING PLAN

S2.C.14



1 TOWER C - LEVEL 5 FRAMING PLAN

1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS

NOTES:

1. REFERENCE FLOOR ELEVATION IS 8426' - 6". TOP OF STRUCTURAL CONCRETE SLAB IS 8426' - 5", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
4. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMN DIVIDED BY 1.4.
5. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
6. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
7. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.

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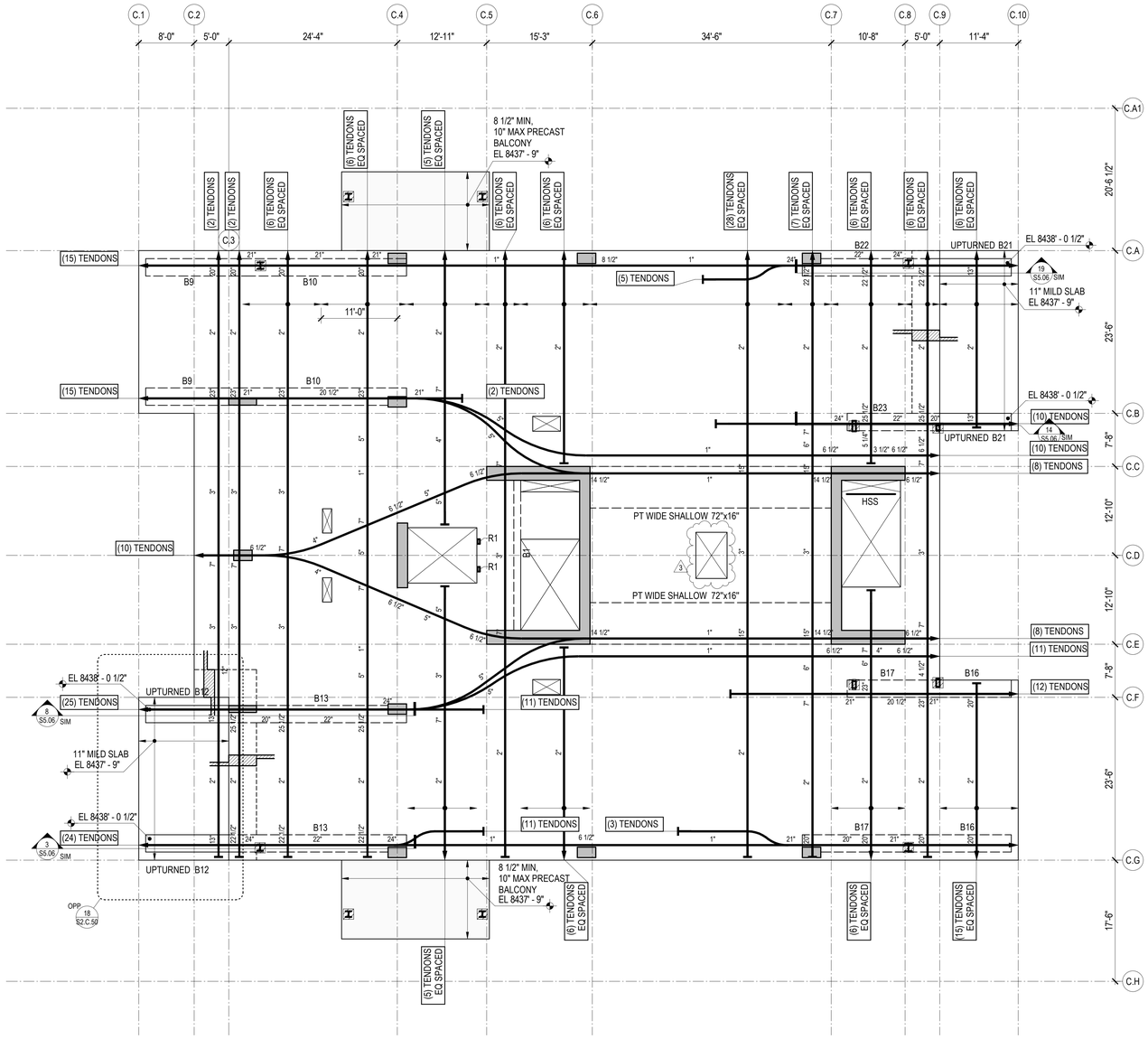
TOWER C LEVEL 5
FRAMING PLAN

S2.C.15



1 TOWER C - LEVEL 6 FRAMING PLAN

1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS

NOTES:

1. REFERENCE FLOOR ELEVATION IS 8438' - 6". TOP OF STRUCTURAL CONCRETE SLAB IS 8438' - 5", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
4. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE SHEAR WALLS.
5. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMNS DIVIDED BY 1.4.
6. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
9. [ ] INDICATES TYPICAL BUILT-UP SLAB ON RIGID FOAM. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND ELEVATIONS OF ARCHITECTURAL BUILT-UP SLABS. SEE TYPICAL BUILT-UP SLAB DETAIL FOR ADDITIONAL INFORMATION.

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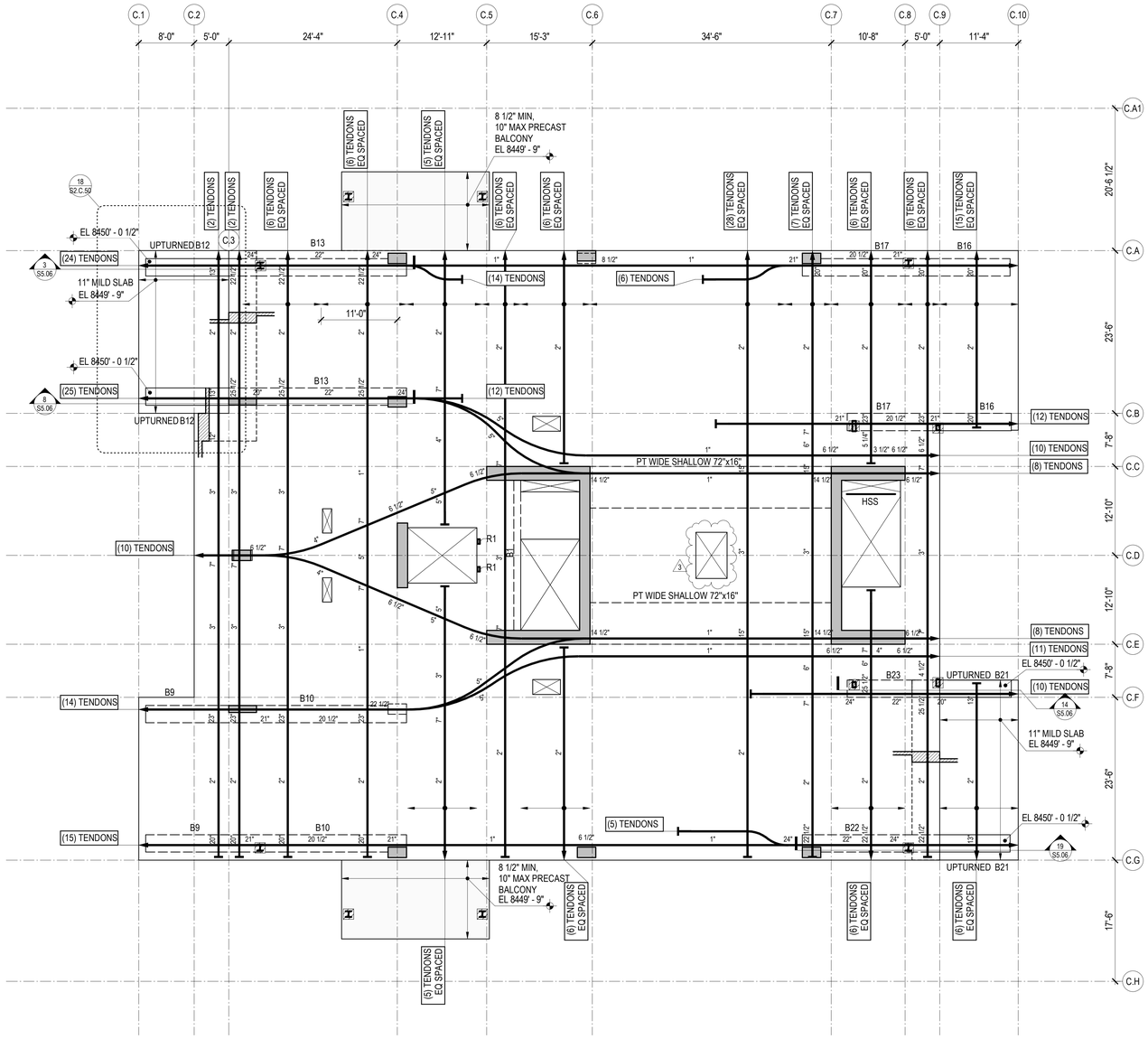
TOWER C LEVEL 6 FRAMING PLAN

S2.C.16



1 TOWER C - LEVEL 7 FRAMING PLAN

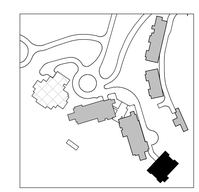
1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS

NOTES:

1. REFERENCE FLOOR ELEVATION IS 8450' - 6". TOP OF STRUCTURAL CONCRETE SLAB IS 8450' - 5", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
4. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE SHEAR WALLS.
5. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAVE MINIMUM CONCRETE STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN THAT SPECIFIED FOR THE COLUMNS DIVIDED BY 1.4.
6. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.
9. [ ] INDICATES TYPICAL BUILT-UP SLAB ON RIGID FOAM. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND ELEVATIONS OF ARCHITECTURAL BUILT-UP SLABS. SEE TYPICAL BUILT-UP SLAB DETAIL FOR ADDITIONAL INFORMATION.



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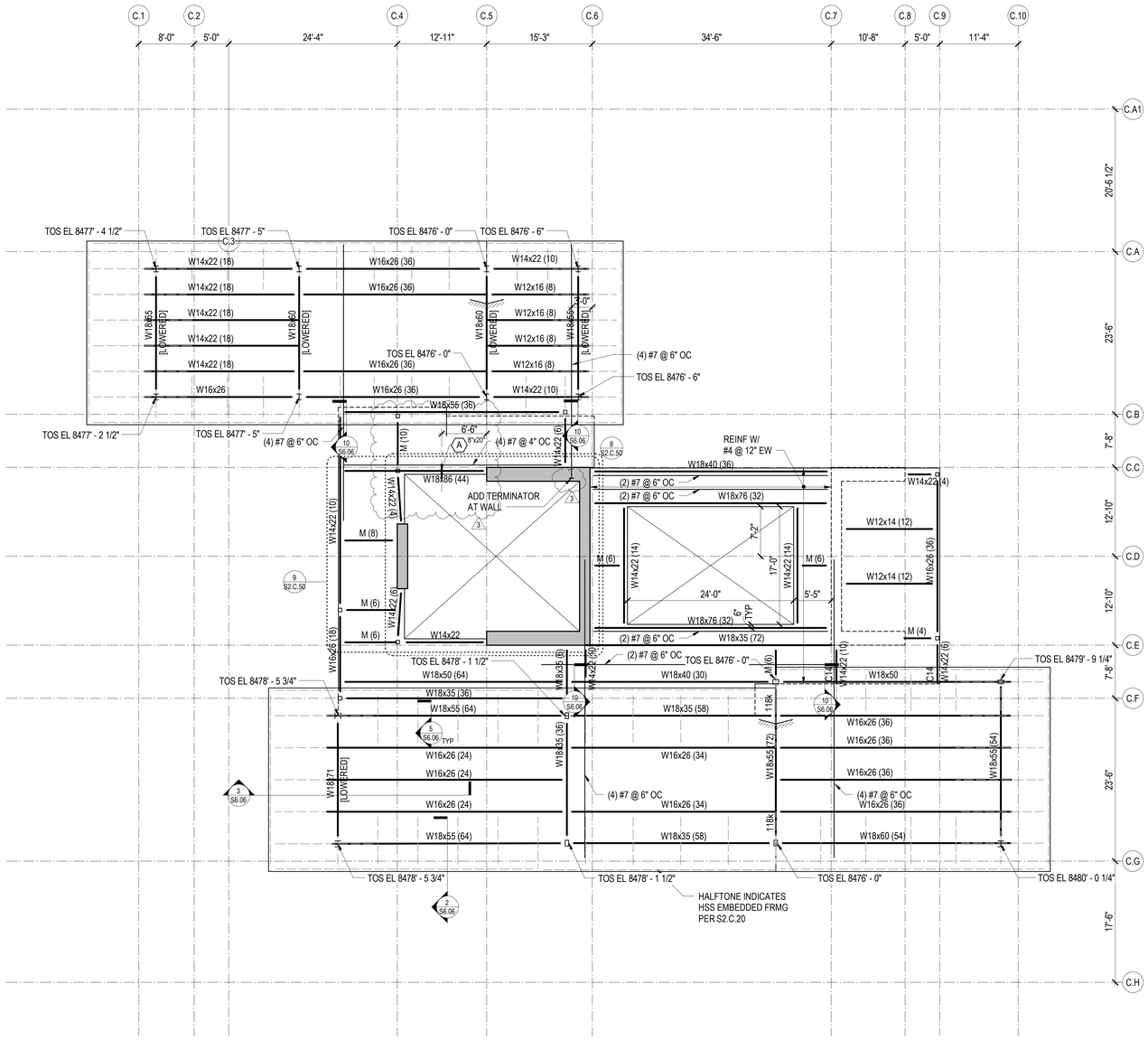
TOWER C LEVEL 7
FRAMING PLAN

S2.C.17



1 TOWER C - ROOF LEVEL FRAMING PLAN

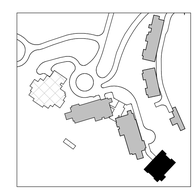
1/8" = 1'-0"

REFERENCE DRAWINGS

S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS

NOTES:

1. REFERENCE FLOOR ELEVATION IS 8475' - 0". TOP OF SLAB ON STEEL DECK IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
2. STRUCTURAL SLAB IS 3 INCHES OF LIGHTWEIGHT CONCRETE ON 3-INCH COMPOSITE STEEL DECK UNLESS NOTED OTHERWISE. REINFORCE WITH WWR 6x6-W2.9xW2.9. SEE TYPICAL SLAB ON STEEL DECK DETAILS FOR REINFORCING AND OTHER INFORMATION. REINFORCING SHOWN ON THE PLAN AND IN THE TYPICAL DETAILS IS IN ADDITION TO THIS REINFORCING.
3. REFERENCE TOP OF STEEL IS AT THE BOTTOM OF SLAB ON STEEL DECK UNLESS NOTED OTHERWISE.
4. STEEL SLOPES UNIFORMLY BETWEEN GIVEN TOP OF STEEL ELEVATIONS. WHERE BEAMS OR BEAMS AND COLUMNS INTERSECT, MATCH TOP OF STEEL UNLESS NOTED OTHERWISE.
5. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING SLABS AND WALLS.
6. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE 'TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE,' 'TYPICAL ROOF DECK OPENINGS,' AND 'TYPICAL COMPOSITE DECK OPENINGS' DETAILS FOR OPENING PLACEMENT CRITERIA AND REINFORCING OR FRAMING REQUIREMENTS. NOTIFY STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.
7. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, EDGE ANGLES, AND SLAB PENETRATIONS. REINFORCE PER TYPICAL DETAILS.



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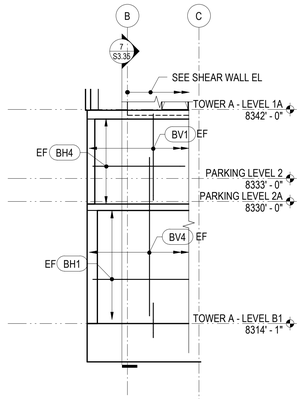
2	7/26/2024	ASI-002
1	05/17/2024	IFC 2
	04/08/2024	IFC SET 1 OF 3
	11/18/2022	95% CD

NOT FOR CONSTRUCTION

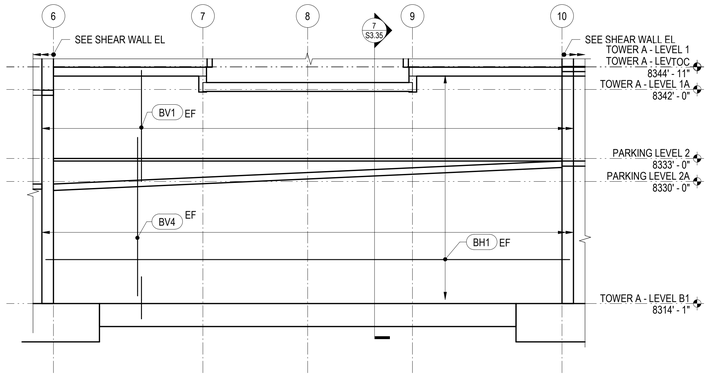
05/17/2024

TOWER C ROOF LEVEL FRAMING PLAN

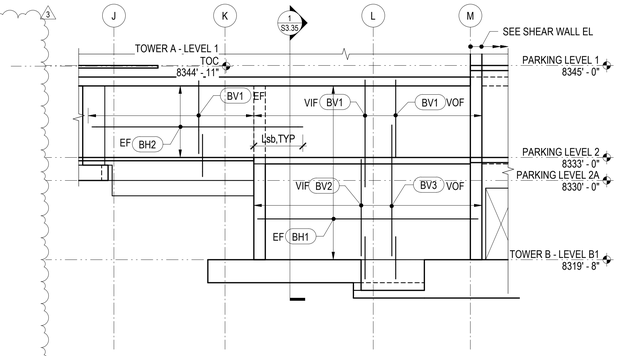
S2.C.19



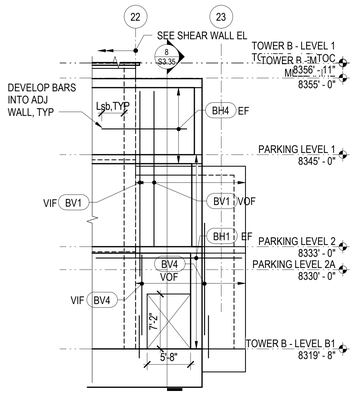
8 BASEMENT WALL ELEVATION
1/8" = 1'-0"



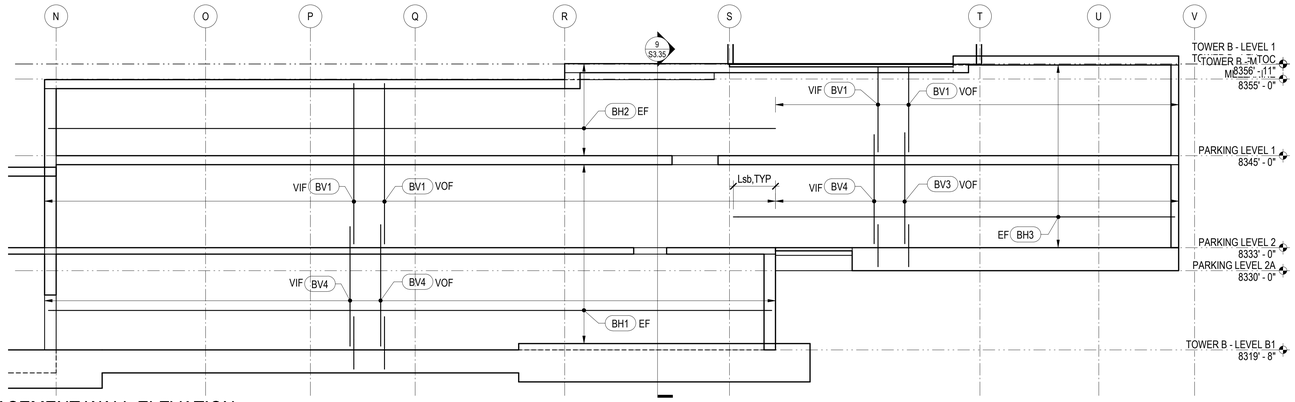
9 BASEMENT WALL ELEVATION
1/8" = 1'-0"



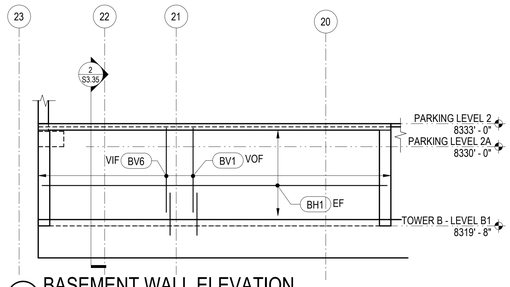
11 BASEMENT WALL ELEVATION
1/8" = 1'-0"



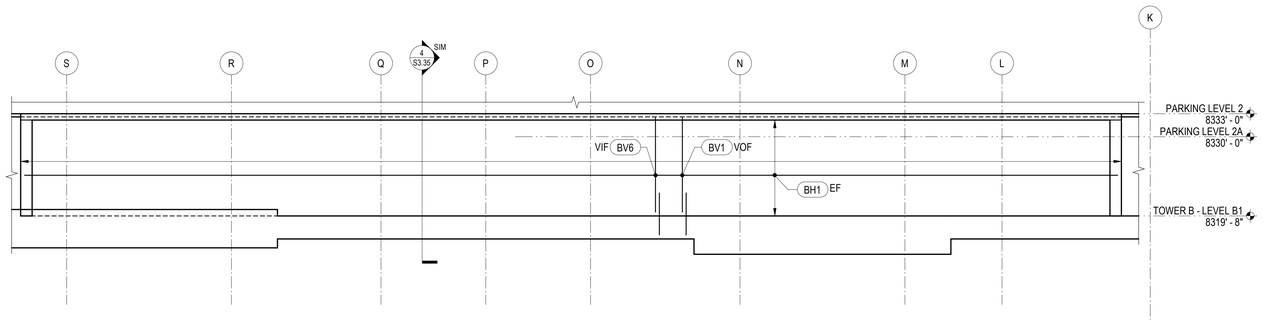
12 BASEMENT WALL ELEVATION
1/8" = 1'-0"



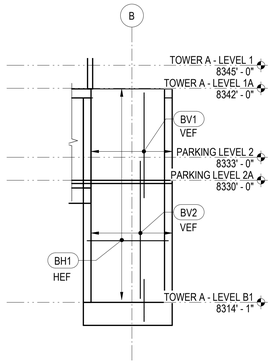
13 BASEMENT WALL ELEVATION
1/8" = 1'-0"



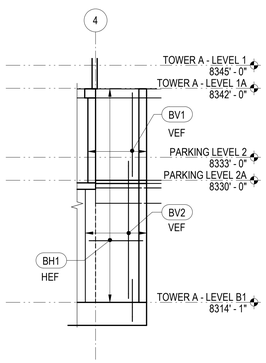
14 BASEMENT WALL ELEVATION
1/8" = 1'-0"



15 BASEMENT WALL ELEVATION
1/8" = 1'-0"



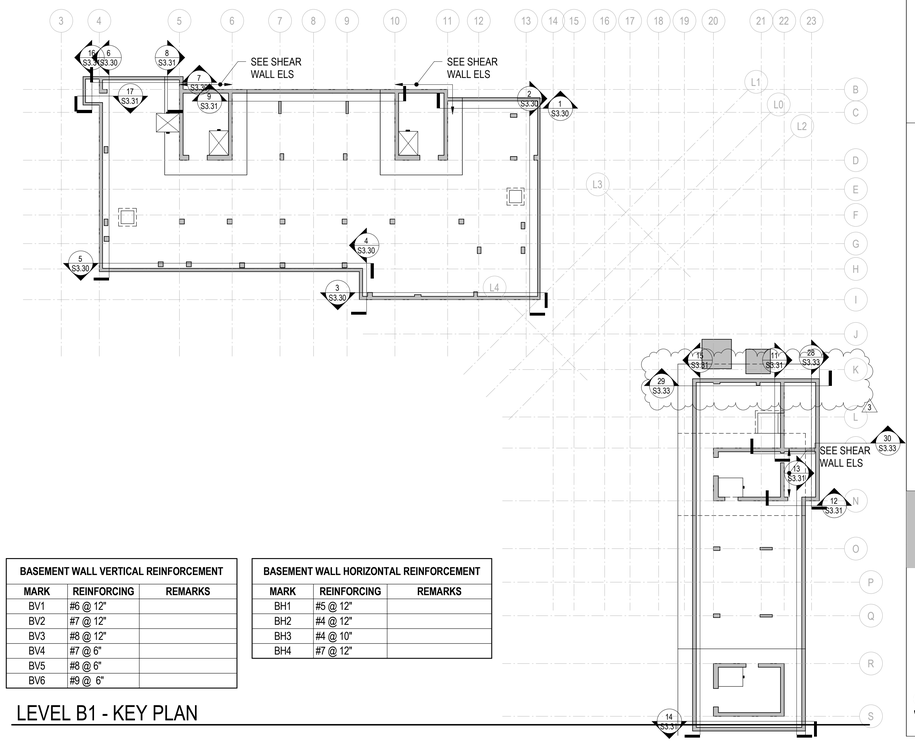
16 BASEMENT WALL ELEVATION
1/8" = 1'-0"



17 BASEMENT WALL ELEVATION
1/8" = 1'-0"

BASEMENT WALL VERTICAL REINFORCEMENT		
MARK	REINFORCING	REMARKS
BV1	#6 @ 12"	
BV2	#7 @ 12"	
BV3	#8 @ 12"	
BV4	#7 @ 6"	
BV5	#8 @ 6"	
BV6	#9 @ 6"	

BASEMENT WALL HORIZONTAL REINFORCEMENT		
MARK	REINFORCING	REMARKS
BH1	#5 @ 12"	
BH2	#4 @ 12"	
BH3	#4 @ 10"	
BH4	#7 @ 12"	



LEVEL B1 - KEY PLAN

Reserved for permit stamp

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project:
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DEER VALLEY, UTAH

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principal architect
project manager
drawn by
checked by
job no. 20052
date 05/17/2024

revisions:

no.	date	by
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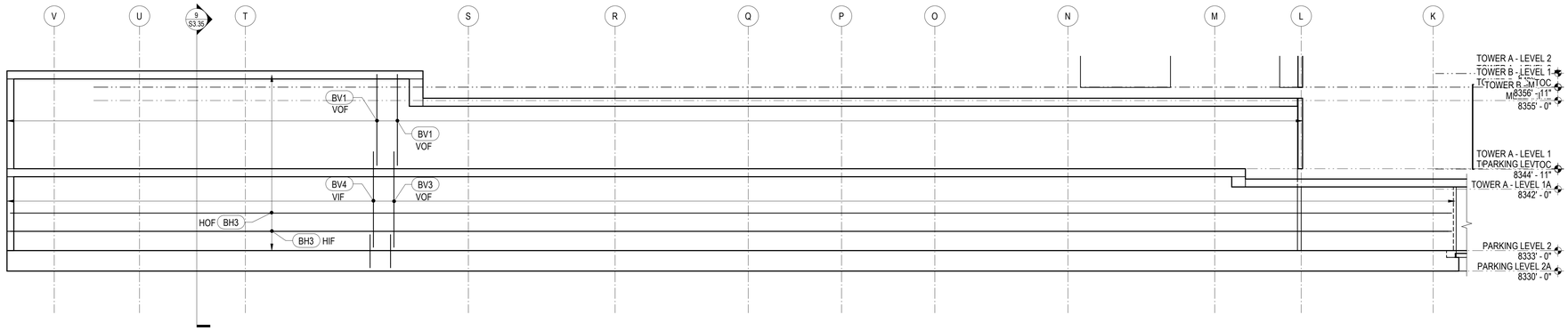
	11/18/2022	95% CD

IFC SET 2 OF 3

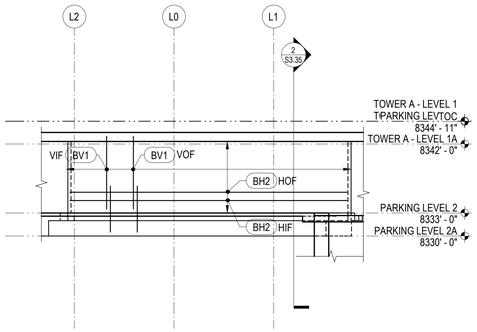
05/17/2024

TOWER A & B
BASEMENT WALL
ELEVATIONS

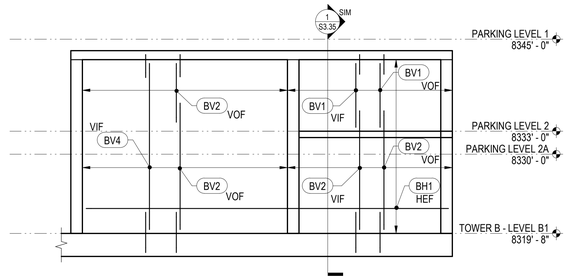
S3.31



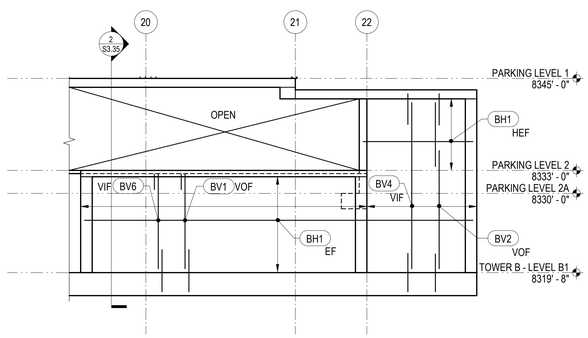
26 BASEMENT WALL ELEVATION
1/8" = 1'-0"



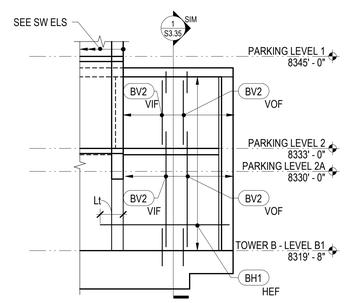
27 BASEMENT WALL ELEVATION
1/8" = 1'-0"



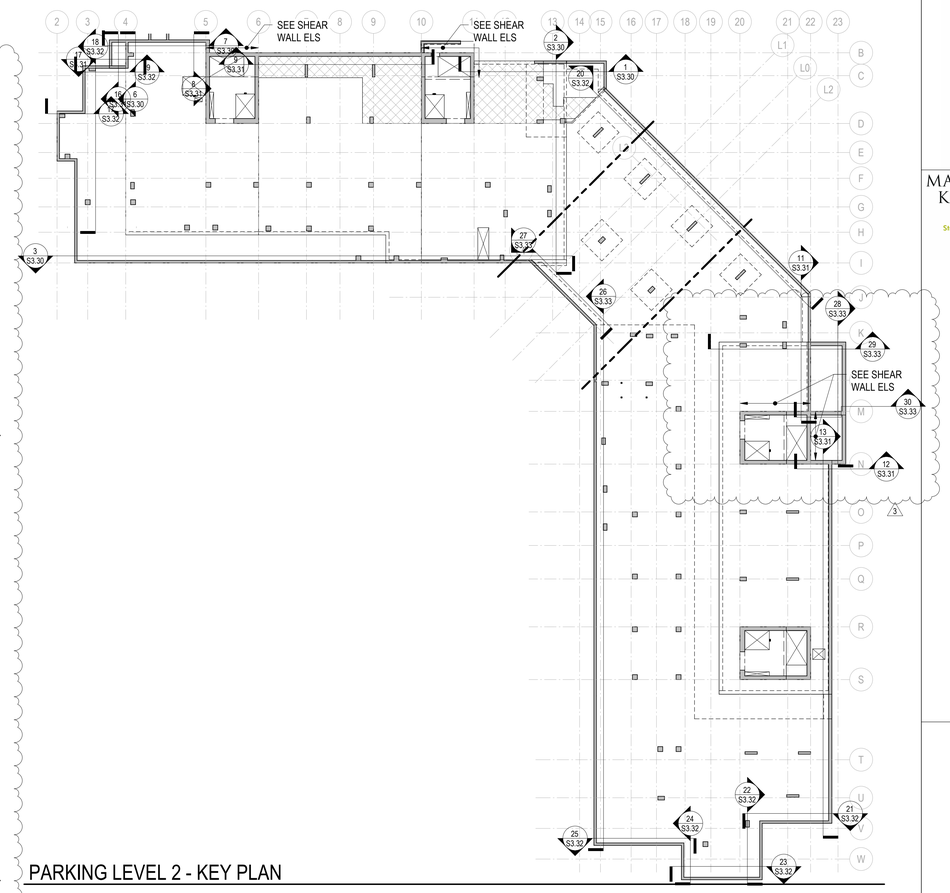
28 BASEMENT WALL ELEVATION
1/8" = 1'-0"



29 BASEMENT WALL ELEVATION
1/8" = 1'-0"



30 BASEMENT WALL ELEVATION
1/8" = 1'-0"



PARKING LEVEL 2 - KEY PLAN

BASEMENT WALL VERTICAL REINFORCEMENT		
MARK	REINFORCING	REMARKS
BV1	#6 @ 12"	
BV2	#7 @ 12"	
BV3	#8 @ 12"	
BV4	#7 @ 6"	
BV5	#8 @ 6"	
BV6	#9 @ 6"	

BASEMENT WALL HORIZONTAL REINFORCEMENT		
MARK	REINFORCING	REMARKS
BH1	#5 @ 12"	
BH2	#4 @ 12"	
BH3	#4 @ 10"	
BH4	#7 @ 12"	

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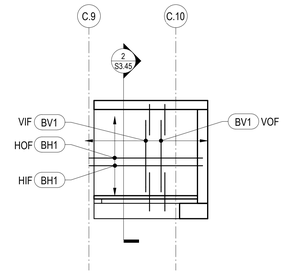
IFC SET 2 OF 3

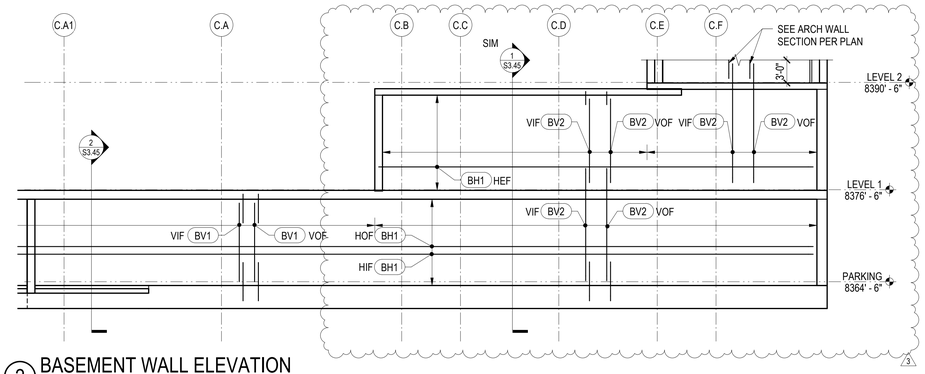
05/17/2024

TOWER A & B
BASEMENT WALL
ELEVATIONS

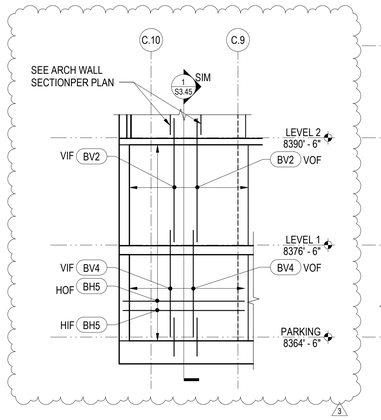
S3.33



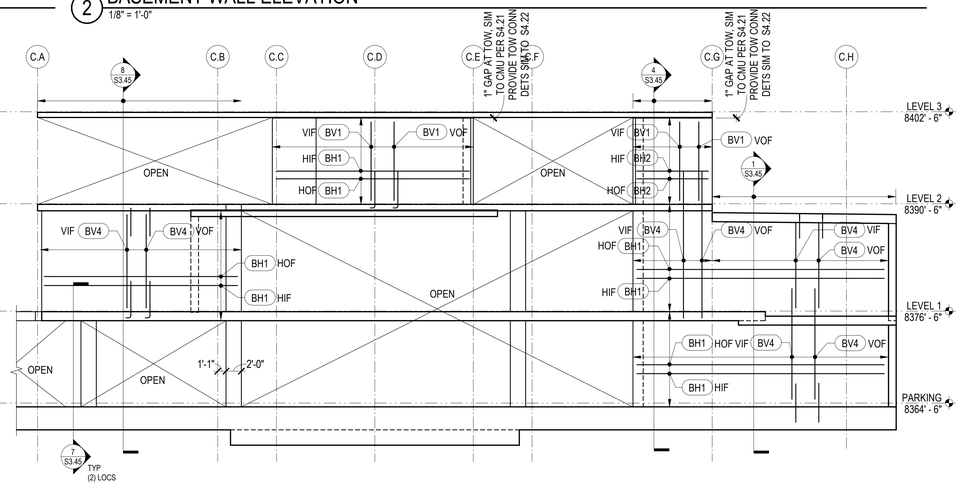
1 BASEMENT WALL ELEVATION
1/8" = 1'-0"



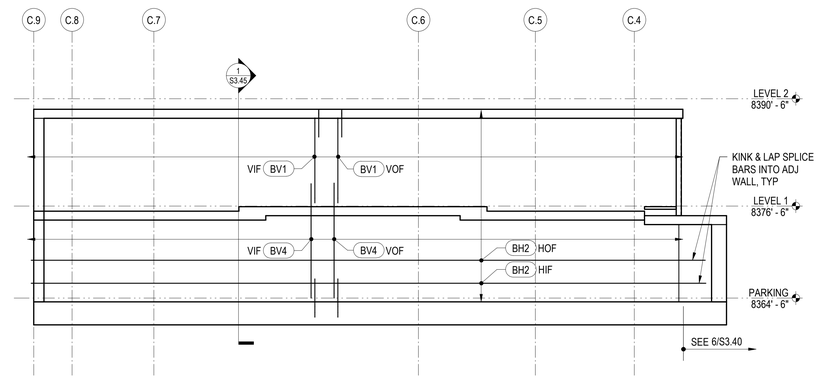
2 BASEMENT WALL ELEVATION
1/8" = 1'-0"



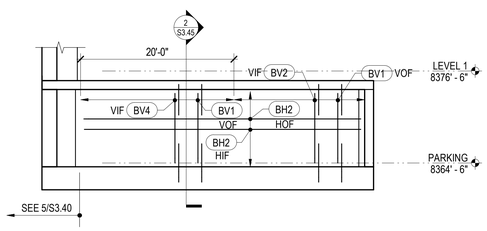
3 BASEMENT WALL ELEVATION
1/8" = 1'-0"



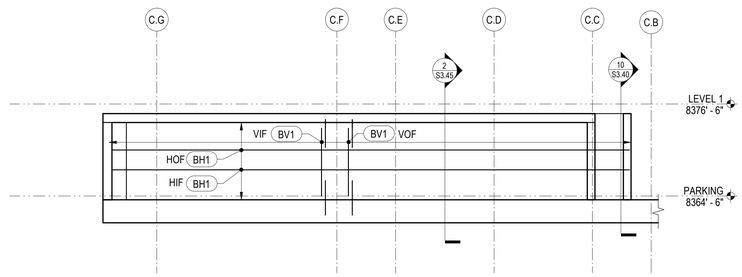
4 BASEMENT WALL ELEVATION
1/8" = 1'-0"



5 BASEMENT WALL ELEVATION
1/8" = 1'-0"



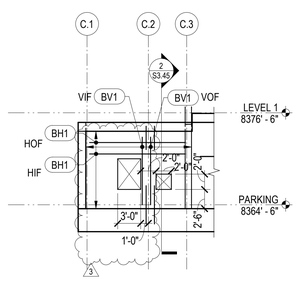
6 BASEMENT WALL ELEVATION
1/8" = 1'-0"



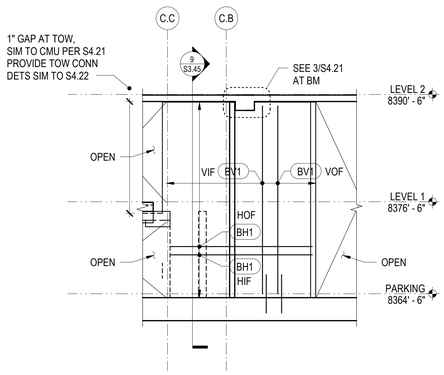
7 BASEMENT WALL ELEVATION
1/8" = 1'-0"

BASEMENT WALL HORIZONTAL REINFORCEMENT		
MARK	REINFORCING	REMARKS
BH1	#5 @ 12"	
BH2	#4 @ 12"	
BH5	#7 @ 6"	

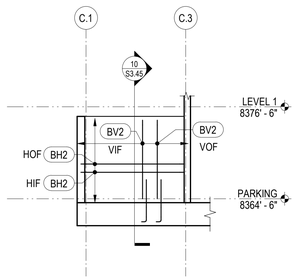
BASEMENT WALL VERTICAL REINFORCEMENT		
MARK	REINFORCING	REMARKS
BV1	#6 @ 12"	
BV2	#7 @ 12"	
BV4	#7 @ 6"	



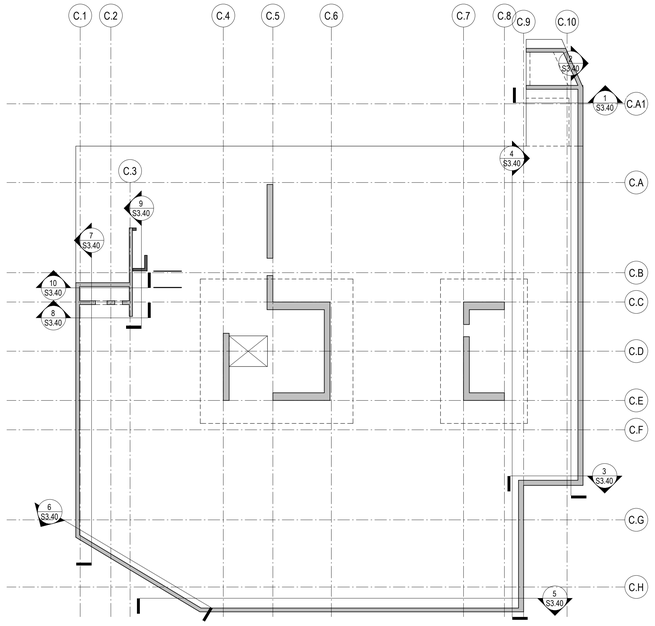
8 BASEMENT WALL ELEVATION
1/8" = 1'-0"



9 BASEMENT WALL ELEVATION
1/8" = 1'-0"



10 BASEMENT WALL ELEVATION
1/8" = 1'-0"



TOWER C - BASEMENT WALL ELEVATION KEY PLAN

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IFC SET 2 OF 3

05/17/2024

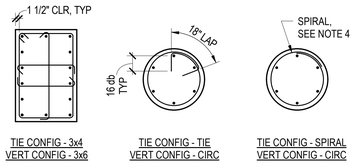
TOWER C
BASEMENT WALL
ELEVATIONS

S3.40

CONCRETE COLUMN TYPE SCHEDULE							
TYPE	LONGIT Fy	TRANSV Fy	VERT REINF	TIE CONFIG	VERT CONFIG	LOC 1 TIES	LOC 2 TIES
1	60	80	(12) #9	3x5 (s)	3x5	#4 @ 4 1/2"	#5 @ 4"
2	60	80	(16) #8	5x5	5x5	#4 @ 6"	#5 @ 5 1/2"
3	60	80	(8) #8	3x3	3x3	#4 @ 5 1/2"	#5 @ 4 1/2"
4	60	80	(12) #7	3x5 (s)	3x5	#4 @ 4 1/2"	#5 @ 4 1/2"
5	60	80	(10) #7	3x4	3x4	#4 @ 4 1/2"	#5 @ 4 1/2"
6	60	80	(12) #7	4x4 (s)	4x4	#4 @ 5"	#5 @ 5"
7	60	80	(14) #9	3x6 (s)	3x6	#4 @ 5"	#5 @ 5"
8	60	80	(12) #7	2x6 (s)	2x6	#4 @ 3"	#5 @ 3"
10	60	80	(14) #9	4x5	4x5	#4 @ 5 1/2"	#5 @ 5 1/2"
11	60	80	(14) #10	3x6 (s)	3x6	#4 @ 4 1/2"	#5 @ 4"
12	60	80	(16) #8	2x8 (s)	2x8	#4 @ 3"	#5 @ 3"
13	60	80	(20) #8	5x7	5x7	#4 @ 6"	#5 @ 6"
14	60	80	(14) #11	3x6 (s)	3x6	#4 @ 4 1/2"	#5 @ 4"
15	60	80	(10) #8	3x4	3x4	#4 @ 5"	#5 @ 5"
16	60	80	(18) #9	2x9 (s)	2x9	#4 @ 3"	#5 @ 3"
17	60	80	(16) #10	5x5	5x5	#4 @ 5 1/2"	#5 @ 5 1/2"

NOTES:

1. TYPICAL CROSSTIES SHALL HAVE A 135 DEGREE HOOK AT ONE END AND A 90 DEGREE HOOK AT THE OTHER END UNLESS NOTED OTHERWISE. AT CONTRACTOR'S OPTION, 135 DEGREE HOOKS MAY BE REPLACED WITH 180 DEGREE HOOKS AND 90 DEGREE HOOKS MAY BE REPLACED WITH 135 OR 180 DEGREE HOOKS.
2. CROSSTIES WITH 90 DEGREE HOOKS SHALL HAVE THE CONSECUTIVE CROSSTIES ALTERNATED END FOR END ALONG THE LONGITUDINAL REINFORCEMENT.
3. CIRCULAR TIES SHALL ALTERNATE POSITION OF LAPS 180 DEGREES EVERY OTHER HOOP.
4. REFER TO "TYPICAL CONCRETE COLUMN SPIRAL REINFORCING" FOR ADDITIONAL DETAILING REQUIRMENTS.



SAMPLE CONFIGURATIONS

TIE CONFIGURATION KEY:

3x4(s)
- 135° HOOK REQD AT EA END OF CROSSTIES, WHERE OCCURS
- LONG SIDE TIE COUNT
- SHORT SIDE TIE COUNT

VERTICAL REINF CONFIGURATION KEY:

3x4
- LONG SIDE VERTICAL BAR COUNT
- SHORT SIDE VERTICAL BAR COUNT

1 CONCRETE COLUMN TYPES

CONCRETE COLUMN SCHEDULE KEY:

24"x24" [1]
- COLUMN TYPE
- COLUMN SIZE

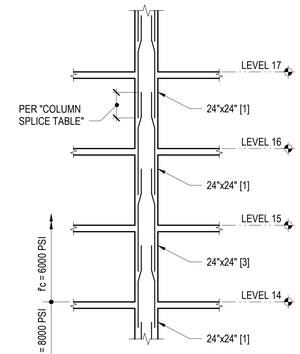
NOTES:

1. SEE THE FOLLOWING ACCOMPANYING DETAILS:
   - "TYPICAL CONCRETE COLUMN"
   - "TYPICAL CONCRETE COLUMN BASE DOWELS"
   - "CONCRETE COLUMN TYPES"
2. VERTICAL REINFORCEMENT SPLICE LENGTHS ARE PER THE "TYPICAL COLUMN SPLICE TABLE" .

COLUMN SIZE, TYPE & SPLICE LENGTH

CONCRETE COLUMN SCHEDULE			
	COLUMN MARK	C1	C2
f'c = 6,000 PSI	LEVEL 20		
	LEVEL 19		
	LEVEL 18		
	LEVEL 17		24"x24" [1]
	LEVEL 16	24"x24" [1]	
	LEVEL 15	24"x24" [3]	
f'c = 8,000 PSI	LEVEL 14		
	LEVEL 13		
	LEVEL 12	24"x24" [1]	
	LEVEL 11		
	LEVEL 10		
	LEVEL 9		
	LEVEL 8	24"x30" [1]	30"x30" [2]

EXAMPLE PARTIAL CONCRETE COLUMN SCHEDULE



EXAMPLE PARTIAL ELEVATION

3 CONCRETE COLUMN SCHEDULE NOTES AND SAMPLE COLUMN SPECIFICATIONS

TOWER A CONCRETE COLUMN SCHEDULE																					
f'c = 6,000 PSI	LEVEL 6		18"x32" [1]																		
	LEVEL 5								18"x32" [4]	18"x32" [1]											
	LEVEL 4																				
	LEVEL 3			18"x32" [4]		18"x32" [5]	24"x24" [3]	24"x24" [3]			18"x32" [5]							24"x24" [3]			
	LEVEL 2	24"x24" [3]	18"x32" [5]	32"x32" [2]		32"x32" [2]	24"x54" [7]	24"x32" [15]					18"x32" [5]			24"x24" [3]		24"x32" [3]	24"x24" [3]	18"x32" [5]	
	LEVEL 1								18"x32" [5]			24"x24" [3]	18"x32" [5]		18"x32" [5]	24"x24" [3]					
	LEVEL P2	24"x24" [6]	18"x32" [4]	18"x32" [1]	12"x60" [8]	18"x32" [4]	24"x24" [6]	24"x24" [6]		18"x32" [5]		24"x24" [6]	18"x32" [4]	24"x24" [3]				24"x24" [6]	24"x24" [6]		
	FOUNDATION																				
	COLUMN MARK	AC1	AC2	AC3	AC4	AC5	AC6	AC7	AC8	AC9	AC10	AC11	AC12	AC13	AC14	AC15	AC16	AC17	AC18	AC19	AC20

6 TOWER A CONCRETE COLUMN SCHEDULE

TOWER B CONCRETE COLUMN SCHEDULE																						
f'c = 6,000 PSI	LEVEL 7					18"x32" [1]																
	LEVEL 6																					
	LEVEL 5																					
	LEVEL 4																					
	LEVEL 3		18"x32" [5]	18"x32" [5]	24"x24" [3]		24"x24" [3]		24"x24" [3]		18"x32" [5]	18"x32" [5]	18"x32" [5]	18"x32" [5]	18"x32" [5]							
	LEVEL 2		32"x32" [2]			18"x32" [5]	24"x54" [7]		41"x41" [17]		41"x41" [17]	18"x32" [4]	32"x32" [2]	32"x32" [2]	32"x32" [2]						24"x24" [3]	
	LEVEL 1	18"x32" [5]		32"x37" [10]						18"x32" [5]												18"x32" [5]
	LEVEL P1	18"x32" [4]		18"x32" [4]	24"x24" [6]	18"x32" [4]	24"x24" [6]		24"x24" [6]				12"x60" [12]	12"x60" [12]	12"x60" [16]	12"x60" [8]	18"x32" [5]	24"x24" [3]	24"x24" [6]	18"x32" [5]		
	LEVEL P2		18"x32" [4]					12"x60" [8]		18"x32" [4]	18"x32" [4]											
	FOUNDATION																					
	COLUMN MARK	BC1	BC2	BC3	BC4	BC5	BC6	BC7	BC8	BC9	BC10	BC11	BC12	BC13	BC14	BC15	BC16	BC17	BC18	BC19	BC20	BC21

11 TOWER B CONCRETE COLUMN SCHEDULE

TOWER C CONCRETE COLUMN SCHEDULE													
f'c = 6,000 PSI	LEVEL 8	18"x32" [11]			18"x32" [11]			18"x32" [11]			18"x32" [14]		
	LEVEL 7												
	LEVEL 6												
	LEVEL 5												
	LEVEL 4							18"x32" [5]					
	LEVEL 3		12"x48" [12]		18"x32" [5]	12"x48" [12]						18"x24" [4]	
	LEVEL 2		30"x39 1/2" [13]		32"x32" [2]							18"x32" [5]	
	LEVEL 1	18"x32" [5]	18"x32" [4]	24"x24" [6]	18"x32" [1]	18"x36" [4]	18"x24" [4]	18"x32" [4]	18"x32" [5]	18"x32" [5]	18"x32" [5]		24"x24" [6]
	FOUNDATION												
	COLUMN MARK	CC1	CC2	CC3	CC4	CC5	CC6	CC7	CC8	CC9	CC10	CC11	CC12	CC13

16 TOWER C CONCRETE COLUMN SCHEDULE

DAVID C. FIELDS, STATE OF UTAH, 12385783-2203, PROFESSIONAL STRUCTURAL ENGINEER

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date 05/17/2024

revisions:

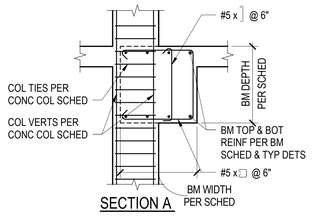
no.	date	by
3	8/19/2024	ASI-004
1	05/17/2024	IFC 2
	04/08/2024	IFC SET 1 OF 3
	11/18/2022	95% CD

IFC SET 2 OF 3

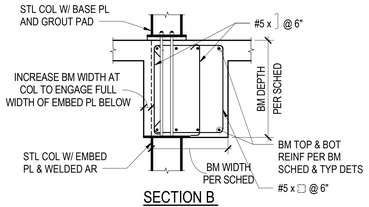
05/17/2024

COLUMN SCHEDULES

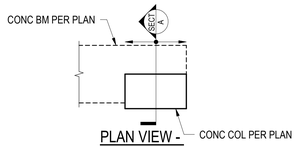
S4.00



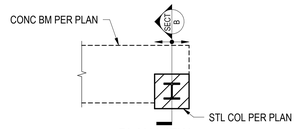
SECTION A



SECTION B



PLAN VIEW - ECCENTRIC BEAM AT CONCRETE COLUMN



PLAN VIEW - ECCENTRIC BEAM AT STEEL COLUMN

1 ECCENTRIC BEAM AT COLUMN

NOTES:

1. AT CONTRACTOR'S OPTION, WHERE REQUIRED TO RELIEVE BAR CONGESTION, NOT MORE THAN 50 PERCENT OF THE AREA OF THE STRAIGHT BOTTOM BARS MAY BE TERMINATED AS SHOWN UNLESS NOTED OTHERWISE.
2. BEAM SCHEDULES DO NOT INDICATE REQUIREMENTS FOR ARRANGING BARS. THE CONTRACTOR SHALL DETAIL AND PLACE REINFORCING STEEL IN A SINGLE LAYER WHENEVER POSSIBLE. A SECOND LAYER MAY BE USED ONLY WHERE REQUIRED TO PROVIDE PROPER CLEARANCES BETWEEN BARS IN A LAYER AND WHERE REQUIRED IN ORDER TO PROPERLY CLEAR COLUMN VERTICALS AND SIMILAR REINFORCING.
3. EITHER 90 OR 180 DEGREE STANDARD HOOK BARS MAY BE USED FOR LONGITUDINAL BARS.
4. WHERE TOP BARS ARE INDICATED AS CONTINUOUS AND RUN OVER 60 FEET IN LENGTH, BARS MAY BE LAPPED Ld IN THE MIDDLE THIRD OF THE BEAM SPAN UNLESS NOTED OTHERWISE. CONTINUOUS TOP BARS SHALL NOT BE LAPPED IN THE SPAN ADJACENT TO A CANTILEVER, UNLESS NOTED OTHERWISE. WHERE BOTTOM BARS ARE SHOWN AS CONTINUOUS AND RUN IN EXCESS OF 60 FEET, A LAP SPLICE MAY BE USED EQUAL TO Lsb AND SHALL BE OUTSIDE THE MIDDLE THIRD OF THE BEAM SPAN. SIDE BAR SPLICES MAY BE MADE WHERE CONVENIENT.
5. LOCATE ALL CONSTRUCTION JOINTS WITHIN THE MIDDLE THIRD OF SPAN. JOINTS SHALL BE OFFSET AT A MINIMUM DISTANCE OF TWO TIMES THE WIDTH OF INTERSECTING BEAMS. SUBMIT LOCATION OF ALL CONSTRUCTION JOINTS TO ENGINEER FOR REVIEW AND ACCEPTANCE BEFORE FORMING.
6. ALL BARS IN SAME LAYER UNLESS NOTED OTHERWISE.

3 TYPICAL CONCRETE BEAM NOTES

CONCRETE BEAM SCHEDULE

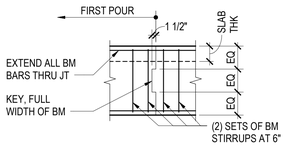
MARK	SIZE (WIDTHxDEPTH)	CAMBER	BOTTOM BARS	TOP BARS LEFT	TOP BARS CONTINUOUS	TOP BARS RIGHT	STIRRUPS LEFT	STIRRUPS CONTINUOUS	STIRRUPS RIGHT	REMARKS
B1	12"x18"		(2) #7	(2) #7	(2) #7	(2) #7		#4 @ 6" [2C]		
B2	24"x24"		(3) #8		(7) #8			#5 @ 9" [2C]		SEE 1/S4.03
B3	24"x24"		(4) #8	(4) #8	(3) #8	(4) #8		#5 @ 9" [2C]		SEE 1/S4.03
B5	24"x22" MIN		(3) #8		(9) #9			#5 @ 9" [2C]		SEE SECTION PER PLAN FOR DEPTH;SEE 1/S4.03
B6	24"x26 1/2"		(3) #8	(5) #9	(4) #9	(5) #9		#5 @ 9" [2C]		SEE SECTION PER PLAN FOR DEPTH;SEE 1/S4.03
B7	24"x24"		(3) #8		(10) #9			#5 @ 9" [3C]		SEE 1/S4.03
B8	24"x24"		(8) #10	(5) #10	(5) #10	(5) #10		#6 @ 5" [3C]		SEE 1/S4.03
B9	30"x24"		(4) #7		(7) #9			#5 @ 9" [3C]		ADD (2) #4 SIDE BAR EA SIDE; SEE 1/S4.03
B10	30"x24"		(4) #7		(7) #9			#5 @ 9" [3C]		ADD (3) #4 SIDE BAR EA SIDE;SEE 1/S4.03
B12	30"x22" MIN		(4) #7		(9) #10			#5 @ 9" [3C]		ADD (2) #4 SIDE BAR EA SIDE - SEE SECTION PER PLAN FOR DEPTH; SEE 1/S4.03
B13	30"x26 1/2"		(5) #7		(10) #10			#5 @ 9" [3C]		ADD (2) #4 SIDE BAR EA SIDE - SEE SECTION PER PLAN FOR DEPTH; SEE 1/S4.03
B16	30"x24"		(4) #7		(6) #8			#5 @ 6" [3C]		ADD (3) #5 SIDE BAR EA SIDE; SEE 1/S4.03
B17	30"x24"		(4) #7		(9) #8			#4 @ 9" [4C]		ADD (3) #4 SIDE BAR EA SIDE; SEE 1/S4.03
B21	30"x22" MIN		(4) #7		(10) #10			#6 @ 6" [3C]		ADD (2) #4 SIDE BAR EA SIDE - SEE SECTION PER PLAN FOR DEPTH; SEE 1/S4.03
B22	30"x26 1/2"		(6) #8		(10) #10			#6 @ 6" [3C]		ADD (2) #4 SIDE BAR EA SIDE - SEE SECTION PER PLAN FOR DEPTH; SEE 1/S4.03
B23	30"x26 1/2"		(4) #7		(8) #9			#5 @ 8" [3C]		ADD (2) #4 SIDE BAR EA SIDE - SEE SECTION PER PLAN FOR DEPTH; SEE 1/S4.03
B26	30"x30"		(3) #7		(4) #7			#5 @ 9" [3C]		SEE 1/S4.03
B27	30"x30"		(3) #7		(4) #7			#6 @ 6" [2C]		SEE 1/S4.03
B28	18"x24"		(3) #7		(3) #7			#5 @ 5" [2C]		
B29	30"x24"		(4) #7		(6) #8			#5 @ 9" [2C]		SEE 1/S4.03
B30	30"x24"		(4) #7		(9) #8			#5 @ 10" [2C]		SEE 1/S4.03
B33	24"x32"		(4) #8		(3) #7			#5 @ 14" [2C]		
B34	24"x24"		(4) #8		(4) #8			#5 @ 10" [2C]		SEE 1/S4.03
B35	24"x24"		(5) #8		(5) #8			#5 @ 10" [2C]		SEE 1/S4.03
B37	18"x32"		(3) #7		(3) #7			#5 @ 5" [2C]		
B38	24"x32"		(4) #7		(4) #8			#5 @ 14" [2C]		
B39	24"x32"		(4) #8		(4) #8			#5 @ 9" [3C]		
B40	24"x32"		(6) #9		(4) #8			#5 @ 9" [3C]		
B41	34"x30"		(6) #8		(6) #8			#5 @ 9" [3C]		
B42	32"x32"		(4) #9		(4) #9			#4 @ 14" [4C]		
B44	24"x48"		(3) #7		(3) #7			#4 @ 14" [3C]		
B45	24"x48"		(3) #8		(3) #8			#4 @ 14" [3C]		
B46	24"x32"		(3) #8		(3) #8			#4 @ 14" [3C]		
B47	24"x32"		(3) #9		(5) #9			#4 @ 14" [3C]		
B48	24"x50"		(3) #8		(3) #9			#4 @ 14" [3C]		
B49	24"x32"		(3) #9		(3) #9			#4 @ 14" [3C]		
B50	12"x39"		(3) #7		(3) #7			#4 @ 14" [3C]		
B51	18"x32"		(4) #8		(4) #8			#4 @ 10 [4C]		
B52	32"x72"		(14) #11	(3) #10	(4) #10	(3) #10		#5 @ 6" [4C]		
B53	18"x36"		(4) #8	(2) #8	(3) #8	(2) #8		#5 @ 12" [2C]		
B54	24"x32"		(3) #7		(3) #7			#4 @ 14" [3C]		
B56	18"x38"		(3) #9		(3) #9			#4 @ 14" [3C]		
B57	24"x33"		(3) #9		(3) #9			#4 @ 14" [3C]		
B58	30"x36"		(4) #9	(3) #7	(4) #9	(3) #7	(13) #5 @ 6" [4C]	#5@ 14" [4C]	(13) #5 @ 6" [3C]	
B59	24"x62"		(4) #9		(4) #9			#4 @ 12" [4C]		
B61	24"x39"		(6) #10		(6) #8			#4 @ 14" [4C]		
B62	24"x74"		(3) #8		(3) #8			#4 @ 14" [3C]		
B63	24"x72"		(5) #11		(5) #11			#4 @ 14" [3C]		
B64	32"x72"		(8) #11		(8) #11			#5 @ 8" [4C]		
B65	24"x60"		(6) #11		(6) #9			#5 @ 14" [4C]		
B66	24"x74"		(5) #11		(5) #11			#4 @ 14" [3C]		
B67	24"x26"		(3) #8		(3) #8			#4 @ 14" [3C]		
B68	24"x61"		(4) #9		(4) #9			#4 @ 14" [4C]		
B69	30 1/2"x48"		(4) #11		(4) #11			#4 @ 14" [4C]		
B71	40"x42"		(11) #18	(6) #11	(6) #11	(6) #11		#6 @ 4" [4C]		
B72	60"x42"		(14) #11		(8) #9			#5 @ 6" [7C]		
B73	38 1/2"x24"		(3) #7		(3) #8			#5 @ 6" [2C]		SEE DETAIL 18/S5.05
B74	24"x67"		(5) #9		(5) #9			#5 @ 9" [3C]		
B75	36"x30"		(5) #8		(6) #10			#6 @ 6" [5C]		SEE 1/S4.03
B76	24"x25" MIN		(4) #9		(4) #8			#5 @ 9" [3C]		25" MINIMUM DEPTH; BOTTOM OF BEAM FLAT AT ELEVATION 8373'-9"; TOP OF BEAM STEPS WITH SLAB
B77	72"x18"		(6) #6		(2) #6			#5 @ 18" [2]		REINF SIM TO 18/S4.05. SEE PLAN FOR ADDED TOP BAR AT END
B78	32"x20"		(4) #9		(5) #9			#5 @ 6" [3C]		
B79	12" MIN x 33"		(3) #9		(3) #9			#5 @ 6" [2C]		CLOSED STIRRUPS ARE TO BE CONTINUOUS, NO CAP/TIE PER [2C ALT] ALLOWED. SEE DETAIL 08/S5.02

3

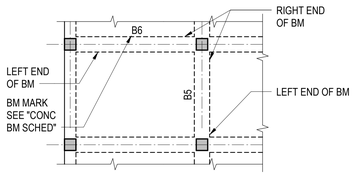
NOTES:

1. SEE "TYPICAL CONCRETE BEAM" DETAIL.
2. [ ] DENOTES TYPE OF REINFORCING CONFIGURATION. SEE "TYPICAL CONCRETE BEAM SECTION AND STIRRUPS" DETAIL FOR STIRRUP TYPE.

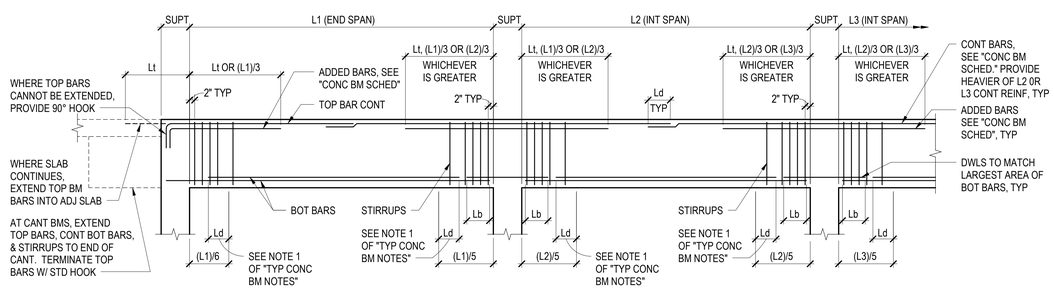
13 CONCRETE BEAM SCHEDULE



BEAM CONSTRUCTION JOINT

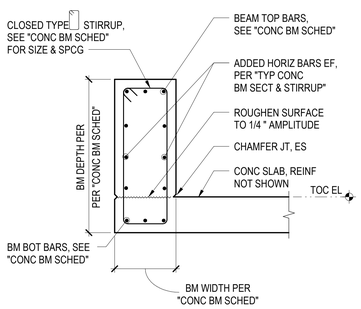


PLAN OF BEAMS

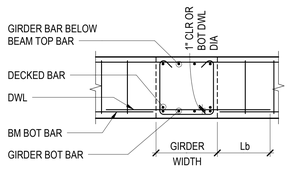


BEAM REINFORCING ELEVATION

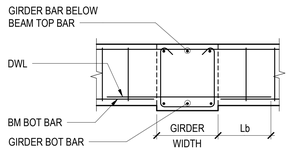
11 TYPICAL CONCRETE BEAM



16 TYPICAL CONCRETE UPTURNED BEAM

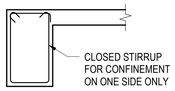


EQUAL DEPTH

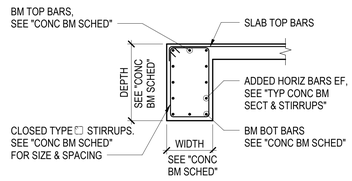


UNEQUAL DEPTH

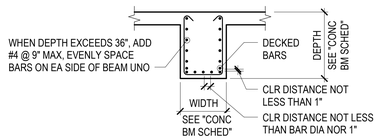
17 TYP CONC BM AND GIRDER INTERSECTION



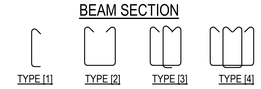
ALTERNATE



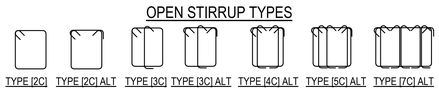
18 TYPICAL CONCRETE EDGE BEAM



BEAM SECTION



OPEN STIRRUP TYPES



CLOSED STIRRUP TYPES

NOTES:

1. [ ] DENOTES TYPE OF STIRRUP REINFORCING CONFIGURATION. SEE "CONCRETE BEAM SCHEDULE."

19 TYP CONC BEAM SECTION AND STIRRUPS

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checked by
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date 05/17/2024

revisions:

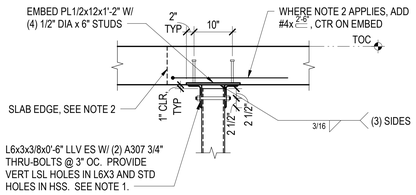
no.	date	by
3	8/19/2024	ASI-004
2	7/26/2024	ASI-002
1	05/17/2024	IFC 2
	04/08/2024	IFC SET 1 OF 3
	11/18/2022	95% CD

IFC SET 2 OF 3

05/17/2024

TYPICAL CONCRETE BEAM DETAILS AND SCHEDULE

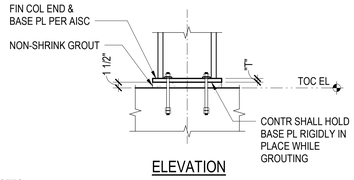
S4.03

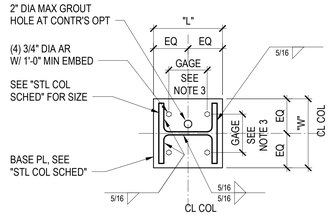


NOTES:

1. WHERE NOTE APPLIES, BOLT TO BE CENTERED IN SLOTTED HOLE IN ANGLE. NUTS TO BE FINGER TIGHT. DAMAGE THREADS OF BOLT TO PREVENT BACK-OFF OF NUT.
2. PROVIDE U-BAR REINFORCEMENT PERPENDICULAR TO SLAB EDGE WHERE EMBED IS LOCATED 6" OR LESS FROM ADJACENT OPENING OR SLAB EDGE.

1 TYPICAL HSS POST TOP SLIP CONNECTION





NOTES:

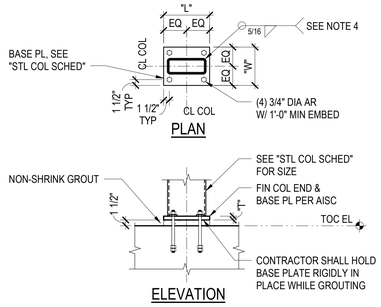
1. TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING.
2. BASE PLATE HOLE DIAMETER AND PLATE WASHER SHALL BE SIZED PER "AISC MANUAL - TABLE 14-2", UNLESS NOTED OTHERWISE.
3. ANCHOR ROD GAGE SHALL BE AS FOLLOWS:
   W10: 5 INCHES
   W12: 6 INCHES
   W14: 8 INCHES

CONTRACTOR TO COORDINATE ANCHOR ROD GAGE WITH CONCRETE REINFORCING.

2 TYPICAL COLUMN BASE PLATE, TYPE 1

NOTES:

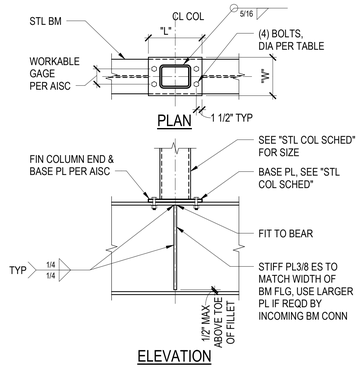
1. TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING.
2. BASE PLATE HOLE DIAMETER AND WASHER DIAMETER SHALL BE SIZED PER "AISC MANUAL-TABLE 14-2" UNLESS NOTED OTHERWISE.
3. DIMENSION "L" IS PARALLEL TO WIDE FACE OF HSS UNLESS NOTED OTHERWISE.
4. WHERE EDGE OF BASE PLATE IS LESS THAN 9/16 INCH FROM THE FACE OF THE HSS, PROVIDE A PARTIAL PENETRATION GROOVE WELD OF THE HSS TO THE BASE PLATE IN LIEU OF FILLET WELD ON THAT FACE OF THE HSS. GROOVE WELD SIZE SHALL BE THE THICKNESS OF THE HSS WALL OR 5/16 INCH, WHICHEVER IS LESS.



4 TYPICAL COLUMN BASE PLATE, TYPE 4

STEEL COLUMN SLAB PLATE SCHEDULE						
TYPE	BASE PLATE			EMBED PLATE		
	T1	L1	W1	T2	L2	W2
1	-	-	-	3/4	18	1'-6"
2	-	-	-	1	18	1'-6"
3	-	-	-	1 1/4	18	1'-6"
4	-	-	-	1 1/2	18	2'-0"
5	3/4	12	1'-0"	3/4	18	1'-6"
6	3/4	12	1'-0"	1 1/4	18	1'-6"
7	3/4	12	1'-0"	1	18	1'-6"
8	3/4	12	1'-2"	1 1/4	18	1'-6"
9	3/4	12	1'-0"	1 1/2	18	1'-6"
10	1	12	1'-2"	1 1/4	18	1'-6"
11	1	12	1'-2"	1 1/2	18	1'-6"
12	1	14	1'-4"	1 1/4	18	1'-6"
13	1	14	1'-4"	1 1/2	18	1'-6"
14	1	6	1'-2"	1	18	1'-6"
15	1	6	1'-2"	1 1/4	18	1'-6"
16	1 1/4	14	1'-4"	1 1/2	18	1'-6"
17	1 1/4	6	1'-2"	1 1/4	18	1'-6"
18	1 1/4	6	1'-6"	1 1/4	18	1'-6"
19	1 1/4	6	1'-6"	1 1/2	18	1'-6"
20	1 1/4	6	1'-6"	1 1/2	18	1'-8"
21	1 1/4	6	1'-6"	1 1/2	18	2'-0"
22	1 1/2	14	1'-4"	1 3/4	18	1'-6"
23	1 1/2	6	1'-8"	1 1/2	18	1'-8"
24	1 1/2	6	1'-8"	1 1/2	18	2'-0"
25	1 1/2	6	2'-0"	1 1/2	18	2'-0"
26	1 1/2	6	2'-0"	1 1/2	18	2'-2"
27	1 1/2	6	2'-0"	1 3/4	18	2'-0"
28	1 1/2	8	2'-2"	1 1/2	18	1'-6"
29	1 1/2	8	2'-2"	1 1/2	18	2'-2"
30	1 1/2	15	1'-7"	1 1/2	18	1'-6"
31	1 1/2	15	1'-7"	1 3/4	18	1'-6"
32	1	9	1'-3"	1 1/4	18	1'-6"

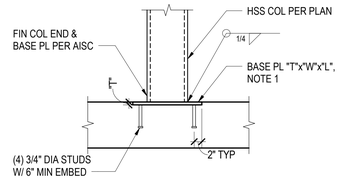
6 STEEL COLUMN SLAB PLATE SCHEDULE



NOTES:

1. DIMENSION "L" IS PARALLEL TO WIDE FACE OF HSS UNLESS NOTED OTHERWISE.

7 TYPICAL BASE PLATE, TYPE 6



NOTES:

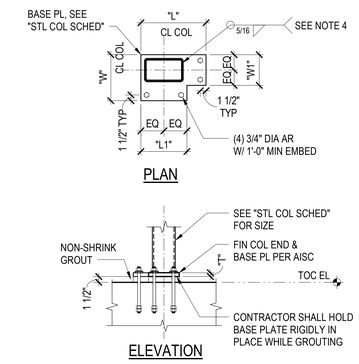
1. ALIGN BASE PLATE LONGER SIDE WITH LONGER SIDE OF HSS COLUMN.

8 TYPICAL COLUMN BASE PLATE, TYPE 7

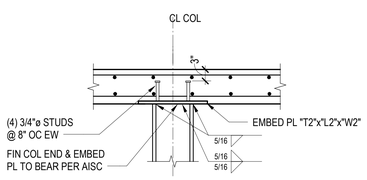
TYPE 5 BASE PLATE SCHEDULE		
COLUMN SIZE	W1 (IN)	L1 (IN)
-	-	-
HSS8x8x1/2	10	10
HSS6x6x5/16	8	8
-	-	-

NOTES:

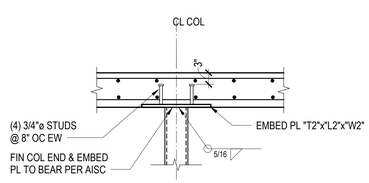
1. TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING.
2. BASE PLATE HOLE DIAMETER AND WASHER DIAMETER SHALL BE SIZED PER "AISC MANUAL-TABLE 14-2" UNLESS NOTED OTHERWISE.
3. DIMENSION "L" IS PARALLEL TO WIDE FACE OF HSS UNLESS NOTED OTHERWISE.
4. WHERE EDGE OF BASE PLATE IS LESS THAN 9/16 INCH FROM THE FACE OF THE HSS, PROVIDE A PARTIAL PENETRATION GROOVE WELD OF THE HSS TO THE BASE PLATE IN LIEU OF FILLET WELD ON THAT FACE OF THE HSS. GROOVE WELD SIZE SHALL BE THE THICKNESS OF THE HSS WALL OR 5/16 INCH, WHICHEVER IS LESS.



9 TYPICAL COLUMN BASE PLATE, TYPE 5



CONNECTION AT WF COL

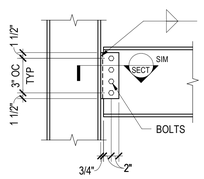


CONNECTION AT HSS COL

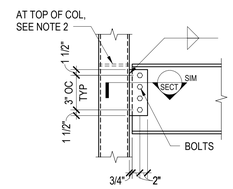
NOTES:

1. SEE STEEL COLUMN SLAB PLATE SCHEDULE FOR PLATE DIMENSIONS.

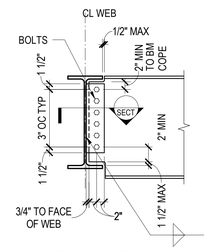
11 TYPICAL TOP OF STEEL COLUMN SUPPORTING CONCRETE FRAMING



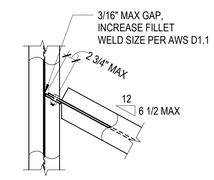
BEAM TO COLUMN FLANGE



BEAM TO HSS OR PIPE COLUMN



BEAM TO BEAM



SECTION
(SKEWED BEAMS)

NOTES:

1. SEE "GENERAL NOTES FOR STEEL CONNECTIONS" FOR ADDITIONAL INFORMATION.
2. AT TOP OF HSS OR PIPE COLUMN, PROVIDE 1/2 INCH CAP PLATE WITH 5/16 INCH FILLET WELD ALL AROUND. IF BEAM IS SHOWN RUNNING OVER TOP OF COLUMN ON PLAN, SEE "TYPICAL BASE PLATE, TYPE 6" DETAIL.

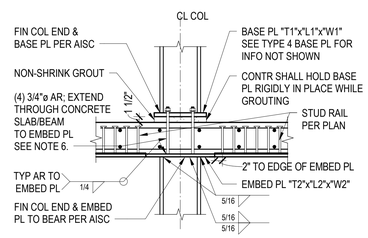
13 TYPICAL BEAM TO BEAM / BEAM TO COLUMN CONNECTION

TABLE A		
WIDE-FLANGE BEAM DEPTH	NUMBER OF BOLTS REQUIRED	MAXIMUM REACTION (KIPS)
W10	2	27
W12, W14	3	40
W16, W18	4	65
W21	5	91
W24	6	124
W27	7	150
W30 - W44	8	175

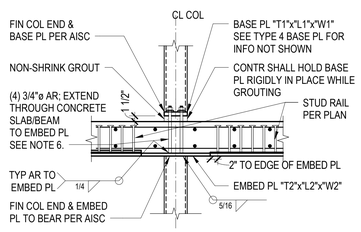
NOTES BELOW APPLY TO ALL TYPICAL CONNECTIONS UNLESS NOTED OTHERWISE:

1. SEE PLANS FOR BEAM SIZE. UNLESS NOTED OTHERWISE, PROVIDE THE NUMBER OF 7/8 INCH DIAMETER GRADE A325 BOLTS SHOWN IN "TABLE A" BASED ON THE BEAM DEPTH.
2. SHEAR TAB PLATES SHALL BE GRADE 50 MATERIAL, AND BE 1/4 INCH THICK WITH 3/16 INCH WELD EACH SIDE FOR (2) BOLTS, 5/16 INCH THICK WITH 1/4 INCH WELD EACH SIDE FOR (3) BOLTS TO (5) BOLTS, AND 3/8 INCH THICK WITH 1/4 INCH WELD EACH SIDE FOR (6) BOLTS OR MORE.
3. BEAMS AND SHEAR TAB PLATES SHALL HAVE STANDARD ROUND HOLES (STD) UNLESS NOTED OTHERWISE. AT CONTRACTOR'S OPTION, HOLES IN SHEAR TAB PLATES MAY BE HORIZONTAL SHORT-SLOTTED HOLES.
4. WHEN CONDITIONS VARY FROM THOSE SHOWN IN THE TYPICAL DETAIL, DESIGN CONNECTIONS ACCORDING TO THE AISC MANUAL OF STEEL CONSTRUCTION.

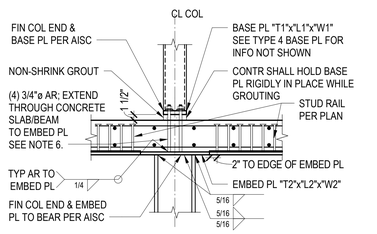
15 GENERAL NOTES FOR STEEL CONNECTIONS



CONNECTION AT WF COL



CONNECTION AT HSS COL

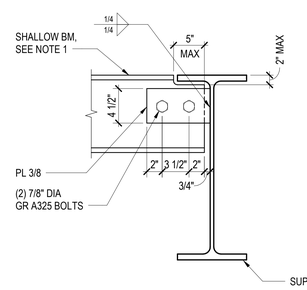


CONNECTION AT HSS COL
ABOVE WITH WF COL BELOW

NOTES:

1. TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING.
2. BASE PLATE HOLE DIAMETER AND PLATE WASHER SHALL BE SIZED PER "AISC MANUAL -TABLE 14-2", UNLESS NOTED OTHERWISE.
3. SEE STEEL COLUMN SLAB PLATE SCHEDULE FOR PLATE DIMENSIONS.
4. WHERE COLUMN ABOVE IS WIDE FLANGE, ANCHOR ROD GAGE SHALL BE AS FOLLOWS:
   W10: 5 INCHES
   W12: 6 INCHES
   W14: 8 INCHES
5. WHERE COLUMN ABOVE IS HSS AND WHERE EDGE OF BASE PLATE IS LESS THAN 9/16 INCH FROM THE FACE OF THE HSS, PROVIDE A PARTIAL PENETRATION GROOVE WELD OF THE HSS TO THE BASE PLATE IN LIEU OF FILLET WELD ON THAT FACE OF THE HSS. GROOVE WELD SIZE SHALL BE THE THICKNESS OF THE HSS WALL OR 5/16 INCH, WHICHEVER IS LESS.
6. ANCHOR ROD TO BE SMOOTH SHANK THROUGH BEAM/SLAB THICKNESS.

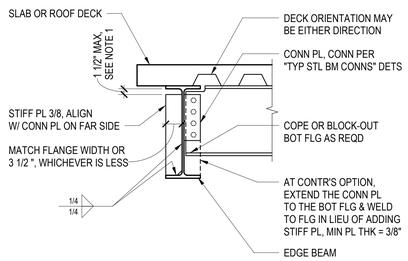
17 TYPICAL STEEL COLUMN SUPPORTING CONCRETE FRAMING



NOTES:

1. THIS DETAIL SHALL BE USED ONLY FOR BEAMS UP TO 8 INCHES DEEP AND WEIGHING AT LEAST 8 LB/FT. SEE "TYPICAL BEAM TO BEAM / BEAM TO COLUMN CONNECTION" FOR DEEPER BEAMS.
2. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.

19 TYPICAL SHALLOW BEAM CONNECTION



NOTES:

1. AT LOCATIONS WHERE A CONCRETE SLAB DOES NOT EXIST AT EDGE BEAM, THE STIFFENER PLATE OR CONNECTION PLATE SHALL BE EXTENDED TO FULL DEPTH AND WELDED ON THREE SIDES.
2. THIS DETAIL APPLIES AT ALL EDGE OF SLAB CONDITIONS.

20 TYPICAL STEEL EDGE BEAM STIFFENER

Reserved for permit stamp

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checked by
job no. 20052
date 05/17/2024

revisions:

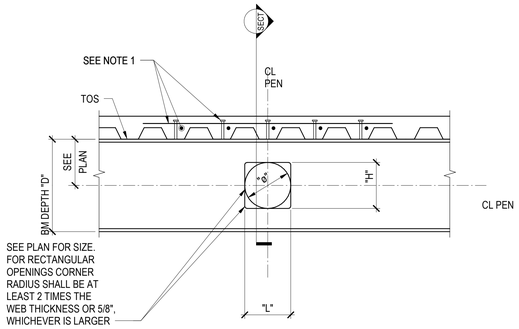
no.	date	by
3	8/19/2024	ASI-004
2	7/26/2024	ASI-002
1	05/17/2024	IFC 2
	04/08/2024	IFC SET 1 OF 3
	11/18/2022	95% CD

IFC SET 2 OF 3

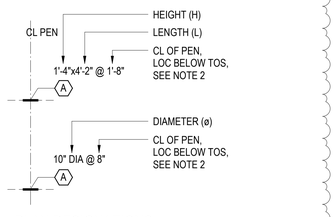
05/17/2024

TYPICAL STEEL DETAILS

S4.11



ELEVATION



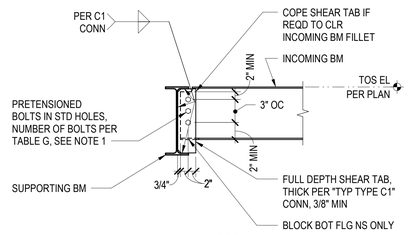
PLAN DESIGNATIONS

NOTES:

1. ALONG 8'-0" LENGTH CENTERED ON OPENING, ENSURE MINIMUM (2) STUDS PER FOOT PROVIDED ALONG BEAM LENGTH AND PROVIDE #4x8'-0" @ 12" EACH WAY IN SLAB ON STEEL DECK. HOOK AT SLAB EDGE AS REQUIRED.
2. PENETRATIONS SHOWN ON PLANS WITHOUT DIMENSION FROM TOP OF STEEL SHALL BE CENTERED AT HALF THE BEAM DEPTH.

1 TYPICAL BEAM WEB PENETRATION

3/4" = 1'-0"



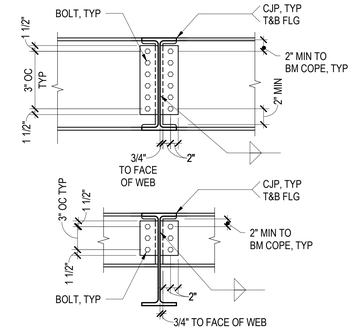
ELEVATION

NOTES:

1. SEE "TYPICAL TYPE C1" FOR BOLT SIZE AND TYPE, WELD SIZE, PLATE THICKNESS, AND COPE REQUIREMENTS.
2. THIS CONNECTION SHALL ONLY BE USED WHEN SPECIFICALLY CALLED OUT ON PLAN OR IN A DETAIL.
3. BEAM SIZE IS SHALLOWER OF INCOMING AND SUPPORTING BEAM.

3 TYPICAL STEEL CONNECTION, TYPE C30

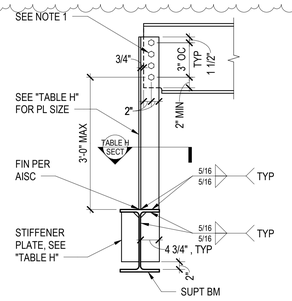
TABLE G	
BM SIZE (NOTE 3)	MINIMUM NUMBER OF BOLTS
W10	2
W12, W14	3
W16	4
W18	5
W21	6
W24	7
W27	8
W30	9
W33, W36	10
W40	11
W44	12



NOTES:

1. SEE "GENERAL NOTES FOR STEEL CONNECTIONS" FOR ADDITIONAL INFORMATION.
2. THIS DETAIL APPLIES ONLY FOR BEAMS OF EQUAL DEPTH EACH SIDE OF SUPPORTING BEAM.

5 TYP BEAM TO BEAM MOMENT CONNECTION



INCOMING BEAM ONE SIDE

NOTES:

1. FOR A GIVEN BEAM AND REQUIRED REACTION, SEE "TABLE A" OR "TABLE B" FOR BOLT SIZE AND TYPE, AND NUMBER OF BOLTS.
2. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.

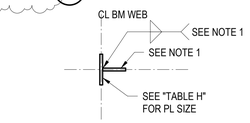
6 C13 - BEAM TO ELEVATED BEAM CONN

TABLE H				
7/8" DIA GR A325 BOLTS				
NUMBER OF BOLTS	PL THICKNESS (IN)	PL LENGTH (IN)	NOMINAL WEB THICKNESS (IN)	STIFF PL THICKNESS (IN)
2-4	5/8	7	0.31	3/8
5-6	3/4	8	0.44	3/8
7-8	3/4	9	0.50	1/2
9-10	7/8	9	0.61	5/8
11-12	1	10	0.64	5/8
1" DIA GR A490 BOLTS				
NUMBER OF BOLTS	PL THICKNESS (IN)	PL LENGTH (IN)	NOMINAL WEB THICKNESS (IN)	STIFF PL THICKNESS (IN)
2-4	5/8	7	0.31	3/8
5-6	3/4	9	0.48	1/2
7-8	7/8	10	0.57	5/8
9-10	1	10	0.65	3/4
11-12	1	10	0.72	1

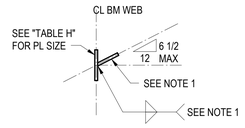
NOTES:

1. VERTICAL PLATE THICKNESS AND WELD SIZE SHALL BE PER "TABLE A" OR "TABLE B", WHICHEVER IS APPLICABLE.
2. PLATE LENGTH SHALL BE DETERMINED PER "TABLE H" BY THE GREATEST NUMBER OF BOLTS REQUIRED FOR EITHER INCOMING BEAM CONNECTION.

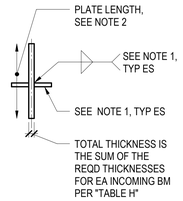
7 TABLE H



SECTION AT PERPENDICULAR BEAMS



SECTION AT SKEWED BEAMS



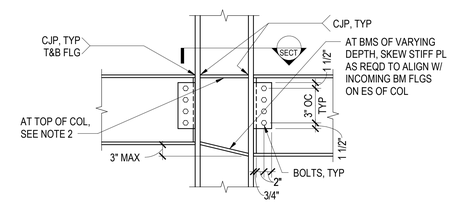
SECTION AT INCOMING BEAM BOTH SIDES

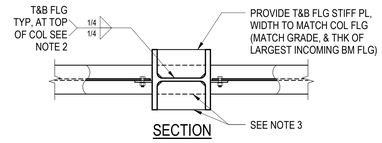
3. WHERE SUPPORT BEAM WEB THICKNESS EXCEEDS NOMINAL WEB THICKNESS IN "TABLE H", STIFFENER PLATES MAY BE OMITTED.

NOTES:

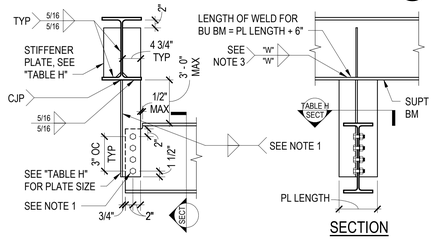
1. SEE "GENERAL NOTES FOR STEEL CONNECTIONS" FOR ADDITIONAL INFORMATION.
2. AT TOP OF COLUMN, PROVIDE 1/4 INCH PJP WELD IN LIEU OF TOP SIDE FILLET WELD OR, AT CONTRACTOR'S OPTION, A SINGLE CAP PLATE MAY BE USED IN LIEU OF TWO STIFFENER PLATES. USE 5/16 INCH ONE SIDED FILLET WELD FOR CAP PLATE TO EACH COLUMN FLANGE AND EACH SIDE OF COLUMN WEB.
3. AT CONTRACTOR'S OPTION, WIDTH OF STIFFENER PLATES MAY BE REDUCED TO MATCH LARGEST INCOMING BEAM FLANGE IF NO OTHER INCOMING CONNECTIONS OCCUR AT A GIVEN BEAM -TO-COLUMN CONNECTION.

9 TYPICAL BM TO COL FLANGE MOMENT CONN





SECTION

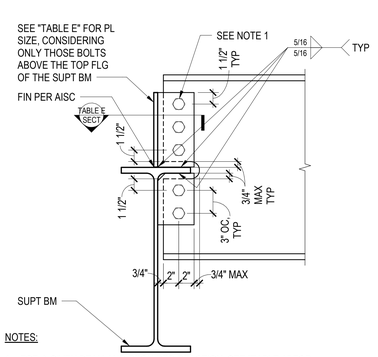


SECTION

NOTES:

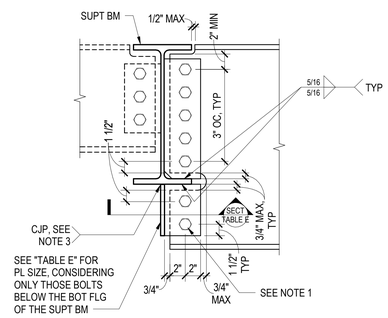
1. FOR A GIVEN BEAM AND REQUIRED REACTION, SEE "TABLE A" OR "TABLE B" FOR BOLT SIZE AND TYPE, NUMBER OF BOLTS, AND MAXIMUM COPE LENGTH.
2. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.
3. PROVIDE FILLET WELD AT BUILT-UP BEAMS. WELD SIZE "W" SHALL BE 0.75tw, WHERE "tw" IS THE SUPPORT BEAM WEB THICKNESS.
4. CONTRACTOR SHALL PERFORM ULTRASONIC TESTING AND INSPECTION OF SUPPORT BEAM BOTTOM FLANGE PER SPECIFICATION FOR WELDED CONNECTIONS.

C14 - BEAM TO DEPRESSED BEAM CONN



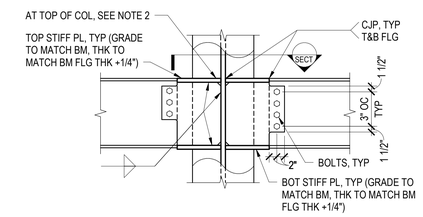
NOTES:

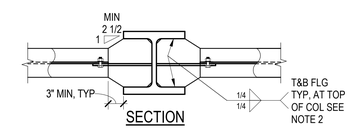
1. FOR A GIVEN BEAM AND REQUIRED REACTION, SEE "TABLE A" FOR BOLT SIZE AND TYPE, TOTAL NUMBER OF BOLTS, AND MAXIMUM COPE LENGTH.
2. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.



3. CONTRACTOR SHALL PERFORM ULTRASONIC TESTING AND INSPECTION OF SUPPORT BEAM BOTTOM FLANGE PER SPECIFICATION FOR WELDED CONNECTIONS.

12 TYPICAL TYPE C21 - BEAM FLANGE INTERSECTING BEAM WEB





SECTION

NOTES:

1. SEE "GENERAL NOTES FOR STEEL CONNECTIONS" FOR ADDITIONAL INFORMATION.
2. AT TOP OF COLUMN, PROVIDE 1/4 INCH PJP WELD IN LIEU OF TOP SIDE FILLET WELD OR, AT CONTRACTOR'S OPTION, A SINGLE CAP PLATE MAY BE USED IN LIEU OF TWO STIFFENER PLATES. USE 5/16 INCH ONE SIDED FILLET WELD FOR CAP PLATE TO EACH COLUMN FLANGE AND EACH SIDE OF COLUMN WEB.
3. THIS DETAIL APPLIES ONLY FOR BEAMS OF EQUAL DEPTH EACH SIDE OF COLUMN.

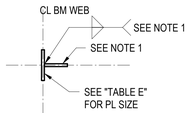
14 TYPICAL BEAM TO COLUMN WEB MOMENT CONNECTION

TABLE E				
7/8" DIA GR A325 BOLTS				
NUMBER OF BOLTS	PL THICKNESS (IN)	PL LENGTH (IN)	NOMINAL WEB THICKNESS (IN)	STIFF PL THICKNESS (IN)
2-4	5/8	7	0.31	3/8
5-6	3/4	8	0.44	3/8
7-8	3/4	9	0.50	1/2
9-10	7/8	9	0.61	5/8
11-12	1	10	0.64	5/8
1" DIA GR A490 BOLTS				
NUMBER OF BOLTS	PL THICKNESS (IN)	PL LENGTH (IN)	NOMINAL WEB THICKNESS (IN)	STIFF PL THICKNESS (IN)
2-4	5/8	7	0.31	3/8
5-6	3/4	9	0.48	1/2
7-8	7/8	10	0.57	5/8
9-10	1	10	0.65	3/4
11-12	1	10	0.72	1

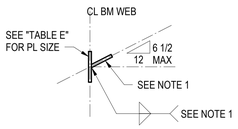
NOTES:

1. VERTICAL PLATE THICKNESS AND WELD SIZE SHALL BE PER "TABLE A" OR "TABLE B", WHICHEVER IS APPLICABLE.
2. PLATE LENGTH SHALL BE DETERMINED PER "TABLE E" BY THE GREATEST NUMBER OF BOLTS REQUIRED FOR EITHER INCOMING BEAM CONNECTION.

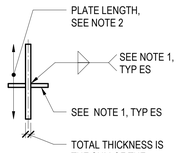
16 TABLE E



SECTION AT PERPENDICULAR BEAMS



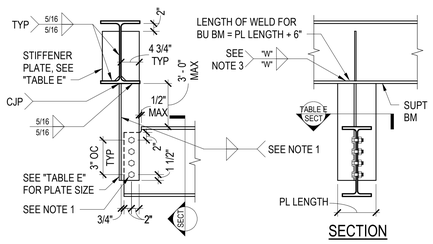
SECTION AT SKEWED BEAMS



SECTION AT INCOMING BEAM BOTH SIDES

3. WHERE SUPPORT BEAM WEB THICKNESS EXCEEDS NOMINAL WEB THICKNESS IN "TABLE E", STIFFENER PLATES MAY BE OMITTED.

18 TYP TYPE C23 - BEAM TO DEPRESSED BM CONN

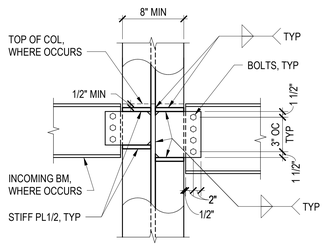


SECTION

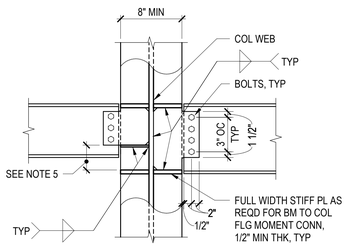
NOTES:

1. FOR A GIVEN BEAM AND REQUIRED REACTION, SEE "TABLE A" FOR BOLT SIZE AND TYPE, NUMBER OF BOLTS, AND MAXIMUM COPE LENGTH.
2. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.
3. PROVIDE FILLET WELD AT BUILT-UP BEAMS. WELD SIZE "W" SHALL BE 0.75tw, WHERE "tw" IS THE SUPPORT BEAM WEB THICKNESS.
4. CONTRACTOR SHALL PERFORM ULTRASONIC TESTING AND INSPECTION OF SUPPORT BEAM BOTTOM FLANGE PER SPECIFICATION FOR WELDED CONNECTIONS.

19 TYPICAL BEAM TO COLUMN WEB SHEAR CONNECTION



TYPICAL CONDITION



CONDITION AT INCOMING BEAM TO COLUMN FLANGE MOMENT CONNECTION

NOTES:

1. SEE "GENERAL NOTES FOR STEEL CONNECTIONS" FOR ADDITIONAL INFORMATION.
2. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.
3. BEAMS MAY BE SKEWED UP TO 30 DEGREES.
4. THIS DETAIL SHALL BE USED WITH W10, W12, AND W14 COLUMNS ONLY.
5. WHEN DIMENSION SHOWN IS 6 INCHES OR LESS, EXTEND VERTICAL PLATE TO LOWER STIFFENER. WHEN DIMENSION SHOWN IS GREATER THAN 6 INCHES PROVIDE ADDITIONAL STIFFENER PLATE PL1/2 AT BOTTOM OF VERTICAL PLATE.

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date 05/17/2024

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no.	date	by
3	8/19/2024	ASI-004
	04/08/2024	IFC SET 1 OF 3
	11/18/2022	95% CD

IFC SET 2 OF 3

05/17/2024

TYPICAL STEEL DETAILS

S4.12

TOWER A - ROOF STEEL COLUMN SCHEDULE

TOWER A - ROOF																																					TOWER A - ROOF
8419' - 6" TOWER B - LEVEL 5					HSS6x6x3/8	HSS6x6x3/8	W10x45	W10x45	HSS6x6x3/8	HSS6x6x1/2	HSS6x6x5/8	HSS6x6x1/2			HSS6x6x5/16	HSS6x6x5/16	W10x45	HSS6x6x5/16	W10x45	HSS6x6x1/2	W10x45	HSS6x6x1/2	HSS6x6x1/2	HSS6x6x1/2	HSS6x6x1/2	HSS6x6x5/8		W10x45	W10x45	HSS6x6x3/8	W10x45	W10x45	W10x45	8419' - 6" TOWER B - LEVEL 5
8412' - 0" TOWER A - LEVEL 6																																					8412' - 0" TOWER A - LEVEL 6
8407' - 6" TOWER A - LEVEL 5	HSS5x6x5/16	HSS5x6x5/16	W10x49	W10x49									W10x49	W10x49													W10x49 [1]								8407' - 6" TOWER A - LEVEL 5
8395' - 0"	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 9/S4.11	BASE PL 1x12x1'-0" 9/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 1x8x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 3/4x12x1'-2" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	8395' - 0"
Column Locations	SCA12	SCA13	SCA14	SCA15	SCA17	SCA18	SCA19	SCA20	SCA22	SCA23	SCA24	SCA25	SCA26	SCA27	SCA28	SCA29	SCA30	SCA31	SCA32	SCA33	SCA34	SCA35	SCA36	SCA37	SCA38	SCA39	SCA40	SCA41	SCA42	SCA43	SCA44	SCA45	SCA46				

TOWER A - STEEL COLUMN SCHEDULE

TOWER A - LEVEL 6	3														TOWER A - LEVEL 6
8407' - 6" TOWER A - LEVEL 5	HSS8x6x1/2 [3]	HSS8x6x1/2 [3]		HSS8x6x1/2 [1]				W10x49 [1]		W10x49 [1]	W10x49 [1]	W10x49 [1]			8407' - 6" TOWER A - LEVEL 5
8395' - 0" TOWER A - LEVEL 4	HSS8x6x1/2 [15]	HSS8x6x1/2 [15]	W10x77 [2]		W10x49 [1]	W10x49 [1]		W10x49 [5]	W10x49 [1]	W10x49 [5]	W10x49 [5]	W10x49 [5]			8395' - 0" TOWER A - LEVEL 4
8383' - 0" TOWER A - LEVEL 3	HSS8x6x5/8 [15]	HSS8x6x5/8 [15]	W10x88 [6]		W10x60 [5]	W10x49 [5]		W10x49 [7]	W10x49 [5]	W10x49 [7]	W10x49 [7]	W10x49 [5]			8383' - 0" TOWER A - LEVEL 3
8371' - 0" TOWER A - LEVEL 2	HSS9x9x1/2 [17]	HSS12x6x5/8 [17]	W12x120 [6]		W10x60 [7]	W10x49 [5]		W10x60 [7]	W10x49 [5]	W10x100 [6]	W10x60 [7]	W10x49 [5]			8371' - 0" TOWER A - LEVEL 2
8359' - 0" TOWER A - LEVEL 1		HSS9x9x1/2 [19]	W12x152 [12]		W10x77 [7]	W10x60 [5]	W10x60	W10x77 [7]	W10x77 [5]		W10x77 [7]	W10x77 [7]	W10x60		8359' - 0" TOWER A - LEVEL 1
8345' - 0" PARKING LEVEL 2		3													8345' - 0" PARKING LEVEL 2
8333' - 0"	3 BASE PL 1 1/4x15x1'-3" 9/S4.11	BASE PL 1 1/4x15x1'-3" 9/S4.11	BASE PL 1 1/4x15x1'-3" 9/S4.11	BASE PL 3/4x6x1'-0" 4/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-2" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11		8333' - 0"
Column Locations	SCA1	SCA2	SCA3	SCA4	SCA5	SCA6	SCA13	SCA7	SCA8	SCA9	SCA10	SCA11	SCA12		

NOTES:

1. BASE PLATES SHALL HAVE Fy = 50 KSI, UNLESS NOTED OTHERWISE.
2. [X] INDICATES CONNECTION OF STEEL COLUMN TO CONCRETE SLAB. SEE "TYPICAL TOP OF STEEL COLUMN SUPPORTING CONCRETE FRAMING" DETAIL, "TYPICAL STEEL COLUMN SUPPORTING CONCRETE FRAMING" DETAIL, AND "STEEL COLUMN SLAB PLATE SCHEDULE" ON S4.11

TOWER A - STEEL COLUMN SCHEDULE

TOWER AB CONNECTOR - STEEL COLUMN SCHEDULE

TOWER A - LEVEL 2																																					TOWER A - LEVEL 2
8359' - 0" TOWER A - LEVEL 1	HSS6x6x5/16	W12x152	W8x40	HSS6x6x5/16	W8x40	HSS6x6x1/2	W8x40	HSS6x6x5/16	HSS6x6x1/2	HSS6x6x1/2	HSS6x6x1/2	W12x152	HSS6x6x1/2	W12x152	W12x152	HSS8x8x5/8	HSS6x6x1/2	HSS6x6x5/8	HSS6x6x5/8	HSS6x6x5/8	HSS6x6x1/2	HSS6x6x5/8	W12x152	HSS6x6x1/2	W12x152	W12x152	W12x152	HSS6x6x1/2	W12x152	W12x152	HSS8x8x5/8	HSS6x6x1/2	HSS8x8x5/8	HSS8x8x5/8	HSS6x6x5/16	8359' - 0" TOWER A - LEVEL 1
8345' - 0"	BASE PL 2 1/2x18x1'-6" 18/S6.00	BASE PL 1x14x1'-2" 2/S4.11	BASE PL 1 1/2x18x1'-6" 19/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	BASE PL 1 1/2x18x1'-6" 19/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	BASE PL 1 1/2x18x1'-6" 19/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	BASE PL 3x22x2'-0" 20/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	BASE PL 3x22x2'-0" 20/S6.00	BASE PL 3x22x2'-0" 20/S6.00	BASE PL 2 1/2x18x1'-6" 18/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	BASE PL 2 1/2x18x1'-6" 18/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	BASE PL 3x22x2'-0" 20/S6.00	BASE PL 3x22x2'-0" 20/S6.00	BASE PL 3x22x2'-0" 20/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	BASE PL 1x14x1'-2" 2/S4.11	BASE PL 3x22x2'-0" 20/S6.00	BASE PL 2 1/2x18x1'-6" 18/S6.00	BASE PL 2 1/2x18x1'-6" 18/S6.00	BASE PL 2 1/2x18x1'-6" 18/S6.00	BASE PL 2 1/2x18x1'-6" 18/S6.00	BASE PL 1 1/2x16x1'-4" 17/S6.00	8345' - 0"
Column Locations	SC1	SC2	SC3	SC4	SC5	SC6	SC7	SC8	SC9	SC10	SC11	SC12	SC13	SC14	SC15	SC16	SC17	SC18	SC19	SC20	SC21	SC22	SC23	SC24	SC25	SC26	SC27	SC28	SC29	SC30	SC31	SC32	SC33	SC34			

TOWER AB CONNECTOR - STEEL COLUMN SCHEDULE

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revisions:

no.	date	by
3	8/19/2024	ASI-004
1	05/17/2024	IFC 2
	04/08/2024	IFC SET 1 OF 3
	11/18/2022	95% CD

IFC SET 2 OF 3

05/17/2024

TOWER A STEEL COLUMN SCHEDULE

S4.A.10

TOWER B - ROOF STEEL COLUMN SCHEDULE

TOWER B - ROOF																													TOWER B - ROOF
8448' - 9" / TOWER B - LEVEL 7	W10x45	HSS6x6x5/8	HSS6x6x5/8	W10x45	W10x45	HSS6x6x3/8	HSS6x6x5/8	HSS6x6x5/8	HSS6x6x5/16	W10x45	HSS6x6x3/8	W10x49	HSS6x6x3/8	W10x49	W10x45	W10x45	W10x49	W10x49	HSS6x6x5/8	HSS6x6x5/8	HSS8x8x1/2	HSS4x4x1/2	HSS4x4x1/2	HSS6x6x5/8	HSS6x6x5/8	HSS6x6x5/16	HSS6x6x1/2	HSS8x8x1/2	8448' - 9" / TOWER B - LEVEL 7
8436' - 6"		BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x10x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x10x1'-0" 4/S4.11	8436' - 6"
Column Locations	SCB1	SCB2	SCB3	SCB4	SCB5	SCB6	SC7	SCB8	SCB9	SCB10	SCB11	SCB12	SCB13	SCB14	SCB15	SCB16	SCB17	SCB18	SCB19	SCB20	SCB21	SCB22	SCB23	SCB24	SCB25	SCB26	SCB27	SCB28	

TOWER B - ROOF STEEL COLUMN SCHEDULE

TOWER B - ROOF															TOWER B - ROOF
8448' - 9" / TOWER B - LEVEL 7	HSS6x6x3/8	HSS6x6x5/16	HSS6x6x1/4	HSS6x6x5/8	HSS6x6x5/16	W10x45	W10x45	W10x45	W10x45	W10x45	W10x45	W10x45	W10x45	HSS6x6x3/8	8448' - 9" / TOWER B - LEVEL 7
8436' - 6"	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 1x8x1'-0" 4/S4.11	8436' - 6"
Column Locations	SCB29	SCB30	SCB31	SCB32	SCB33	SCB34	SCB35	SCB36	SCB37	SCB38	SCB39	SCB40	SCB41	SCB42	

TOWER B - ROOF STEEL COLUMN SCHEDULE

NOTES:

1. BASE PLATES SHALL HAVE Fy = 50 KSI, UNLESS NOTED OTHERWISE.
2. X INDICATES CONNECTION OF STEEL COLUMN TO CONCRETE SLAB. SEE "TYPICAL TOP OF STEEL COLUMN SUPPORTING CONCRETE FRAMING" DETAIL, "TYPICAL STEEL COLUMN SUPPORTING CONCRETE FRAMING" DETAIL, AND "STEEL COLUMN SLAB PLATE SCHEDULE" ON S4.11

TOWER B - STEEL COLUMN SCHEDULE

TOWER B - LEVEL 7											TOWER B - LEVEL 7
8436' - 6" / TOWER B - LEVEL 6	W10x49 [1]	HSS8x6x1/2 [1]	HSS8x6x1/2 [1]	W10x49 [1]	W10x49 [1]	W10x49 [1]	W10x49 [1]	W10x49 [1]	W10x49 [1]	W10x77 [2]	8436' - 6" / TOWER B - LEVEL 6
8424' - 0" / TOWER B - LEVEL 5	W10x49 [7]	HSS8x6x1/2 [14]	HSS8x6x1/2 [15] (3)	W10x49 [5]	W10x49 [5]	W10x49 [5]	W10x49 [5]	W10x49 [5]	W10x49 [5]	W10x112 [6]	8424' - 0" / TOWER B - LEVEL 5
8412' - 0" / TOWER B - LEVEL 4	W10x49 [7]	HSS12x6x1/2 [15]	HSS9x9x1/2 [15] (3)	W10x49 [7]	W10x49 [5]	W10x49 [7]	W10x49 [5]	W10x49 [5]	W10x49 [7]	W12x120 [8]	8412' - 0" / TOWER B - LEVEL 4
8400' - 0" / TOWER B - LEVEL 3	W10x60 [7]	HSS12x6x1/2 [18]	HSS9x9x1/2 [32]	W10x60 [7]	W10x49 [5]	W10x60 [7]	W10x49 [5]	W10x49 [7]	W10x60 [7]	W12x152 [16]	8400' - 0" / TOWER B - LEVEL 3
8388' - 0" / TOWER B - LEVEL 2	W10x77 [7]	HSS12x6x5/8 [18]	HSS9x9x1/2 [32]	W10x68 [6]	W10x60 [7]	W10x68 [7]	W10x49 [5]	W10x60 [7]	W10x77 [6]	W12x152 [16]	8388' - 0" / TOWER B - LEVEL 2
8376' - 0" / TOWER B - LEVEL 1	W12x136 [7]		HSS9x9x5/8 [32]	W10x112 [6]	W10x77 [7]	W10x112 [6]	W10x60 [5]	W10x88 [7]	W10x112 [6]	W12x170 [16]	8376' - 0" / TOWER B - LEVEL 1
8357' - 0" / PARKING LEVEL 1											8357' - 0" / PARKING LEVEL 1
8345' - 0" / PARKING LEVEL 2											8345' - 0" / PARKING LEVEL 2
8333' - 0"	BASE PL 1 1/4x14x1'-3" 2/S4.11	BASE PL 1 1/2x6x1'-8" 4/S4.11	(3) BASE PL 1 1/2x15x1'-3" 9/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-2" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	BASE PL 3/4x12x1'-2" 2/S4.11	BASE PL 1 1/2x14x1'-4" 2/S4.11	8333' - 0"
Column Locations	SCB1	SCB2	SCB3	SCB4	SCB5	SCB6	SCB7	SCB8	SCB9	SCB10	

TOWER B - STEEL COLUMN SCHEDULE

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12385783-2203
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DEER VALLEY, UTAH

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principal architect
project manager
drawn by
checked by
job no. 20052
date 05/17/2024

revisions:

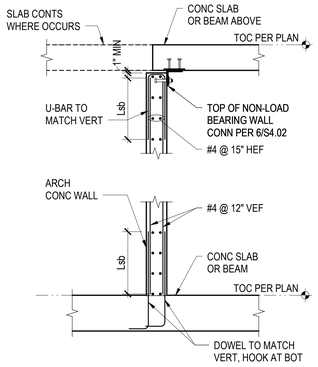
no.	date	by
3	8/19/2024	ASI-004
	04/08/2024	IFC SET 1 OF 3
	11/18/2022	95% CD

IFC SET 2 OF 3

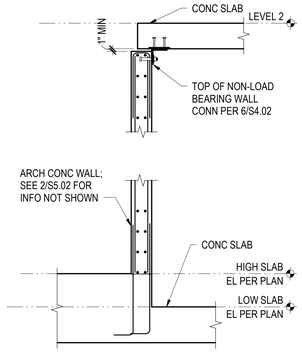
05/17/2024

TOWER B STEEL COLUMN SCHEDULE

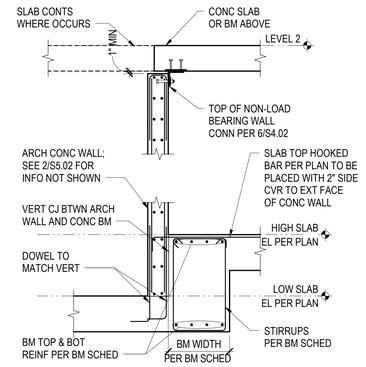
S4.B.10



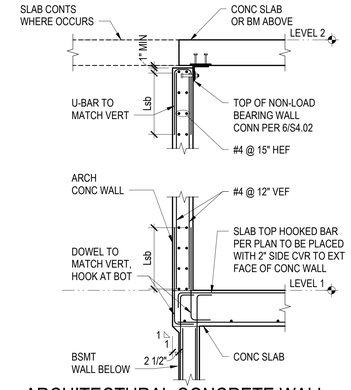
2 ARCHITECTURAL CONCRETE WALL
1/2" = 1'-0"



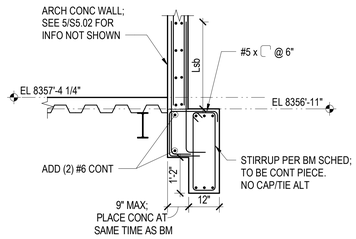
3 ARCHITECTURAL CONCRETE WALL
AT SLAB STEP
1/2" = 1'-0"



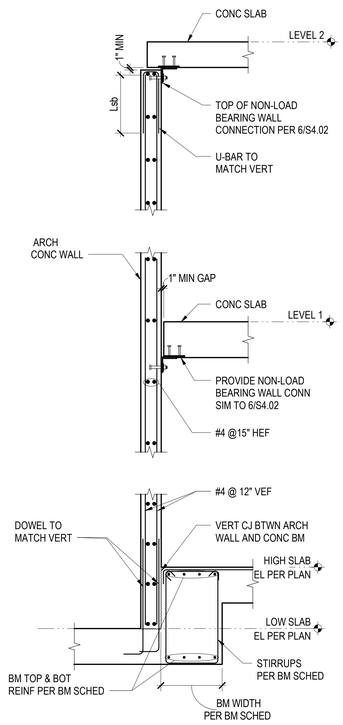
4 ARCHITECTURAL CONCRETE WALL
AT STEP BEAM
1/2" = 1'-0"



5 ARCHITECTURAL CONCRETE WALL
ABOVE BASEMENT WALL
1/2" = 1'-0"



8 ARCHITECTURAL CONCRETE WALL
AT FLOATING BEAM
1/2" = 1'-0"



20 TWO-STORY ARCHITECTURAL
CONCRETE WALL
1/2" = 1'-0"

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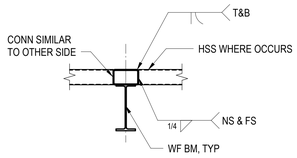
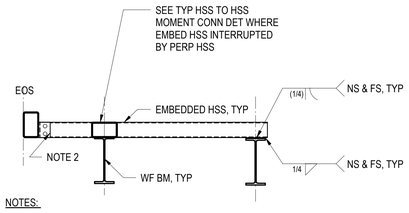
TOWER A & B
CONCRETE
SECTIONS AND
DETAILS

S5.02
3



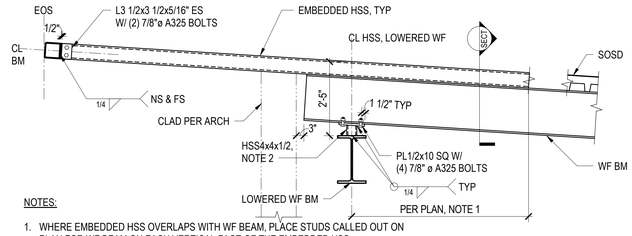
1 TYPICAL HSS TO HSS MOMENT CONNECTION



NOTES:

1. SLAB ON STEEL DECK NOT SHOWN FOR CLARITY.
2. SEE TYPICAL CANOPY HSS PARALLEL TO SLOPE DETAIL FOR CONNECTION INFORMATION.

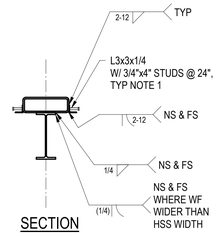
2 TYPICAL HSS PERPENDICULAR TO SLOPE



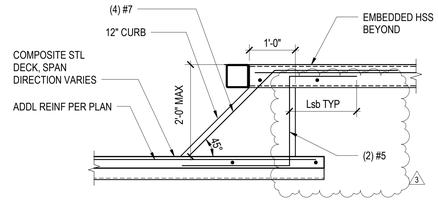
NOTES:

1. WHERE EMBEDDED HSS OVERLAPS WITH WF BEAM, PLACE STUDS CALLED OUT ON PLAN FOR WF BEAM ON EACH VERTICAL FACE OF THE EMBEDDED HSS.
2. WHERE WF BEAM DIRECTLY SUPPORTED BY WF COLUMN, SEE TYPICAL WF BEARING CONNECTION AT WF COLUMN DETAIL.

3 TYPICAL CANOPY HSS PARALLEL TO SLOPE



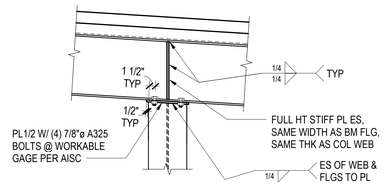
SECTION



NOTES:

1. FRAMING NOT SHOWN FOR CLARITY.

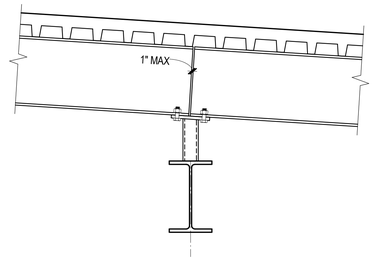
5 CURB AT ADDL REINF THROUGH UNEVEN ROOFS



NOTES:

1. FOR INFORMATION NOT SHOWN, SEE TYPICAL CANOPY HSS PARALLEL TO SLOPE

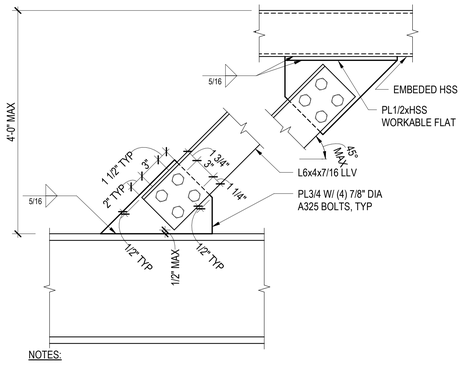
8 TYPICAL WF BEARING CONNECTION AT WF COLUMN



NOTES:

1. SEE TYPICAL CANOPY HSS PARALLEL TO SLOPE FOR INFORMATION NOT SHOWN.

9 TYPICAL SLOPED W AT INTERMEDIATE SUPPORT



NOTES:

1. COMPOSITE STEEL DECK NOT SHOWN FOR CLARITY.

10 TYPICAL SLOPED ROOF TRANSITION

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TOWER C STEEL SECTIONS AND DETAILS

S6.06