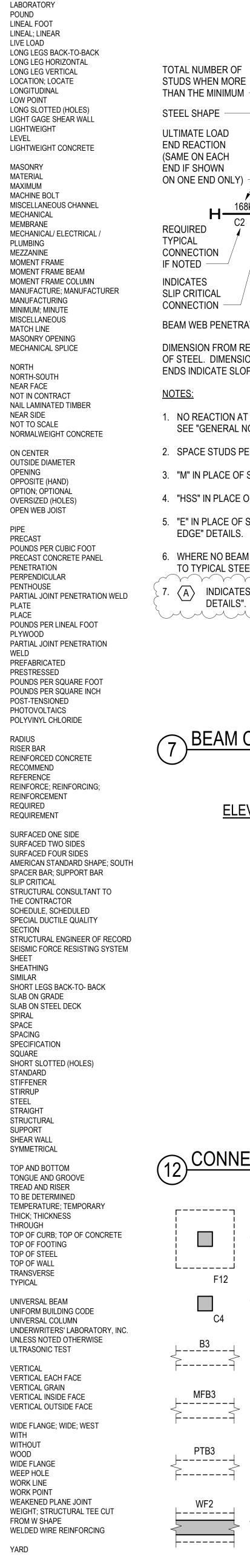
&	AND
@	AT
°, DEG	DEGREE
ø, DIA	DIAMETER
#	NUMBER, POUND
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT
AESS	ARCHITECTURAL EXPOSED
AGGR AISC	STRUCTURAL STEEL AGGREGATE AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT ALUM ANSI	ALTERNATE ALUMINUM AMERICAN NATIONAL STANDARDS INSTITUTE
APA APPD APPROX AR	AMERICAN PLYWOOD ASSOCIATION APPROVED APPROXIMATE ANCHOR RODS ARCHITECTURAL; ARCHITECT
ARCH	ASSEMBLY
ASSY	AMERICAN SOCIETY FOR TESTING AND
ASTM	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 COMP CONC CONFIG	
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
EXT	EXTEND; EXTENDED
EXTD	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 FP FRMG FS FT	FACE OF STUD FIREPROOF; FULL PENETRATION FRAMING FULL SIZE; FAR SIDE
FTG FV GA	FOOT; FEET FOOTING FIELD VERIFY 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 POLINDS)
KO KSI	KIP (1,000 POUNDS) KNOCK-OUT KIPS PER SQUARE INCH
(16) <u>AD</u>	BREVIATIONS



ANGLE

LAB

LF

LIN

LLBB

LLH

LLV

LOC

LP

LSL

LSW

LVL

MAS

MAX

MB

MC

MECH

MEMB

MEP

MEZZ

MF

MFB

MFC

MFR

MFRG

MIN

MISC

MI

MO

MS

N-S

NIC

NLT

NTS

NWC

NS

00

OD OPNG

OPP

OPT

OVS

OWJ

Р

PC

PCF

PCP

PEN

PH

PL

PLC

PLF

PERP

PJP, PP

PLYWD

PP, PJP

PREFAB

PS

PSF

PSI

PVC

R

RB

RC

RCMD

REINF

REQD

REQT

S1S

S2S

S4S

SB

SC

SCC

SCHED

SDQ

SECT

SEOR

SFRS SHT

SHTG

SIM

SLBB

SOG

SOSD

SP

SPC

SPCG

SPEC

SQ

SSL

STD

STIFF

STIRR

STL

STR

STRUC

SUPT

SYM

SW

T&B

T&G

T&R

TBD

TEMP

THRU

THK

TOC

TOF

TOS

TOW

TYP

UB

UL

UNO

V, VERT

UT

VEF

VG

VIF

W/

W/O

WD

WF

WH

WP

WPJ

WT

WWR

YD

VOF

UBC

TRANS

REF

NF

MATL

LWC

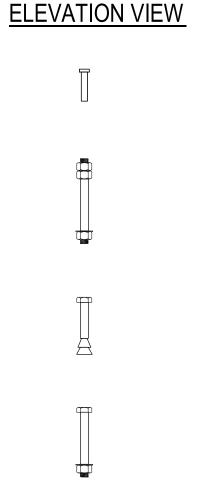
LTWT

LONGIT

LB, #

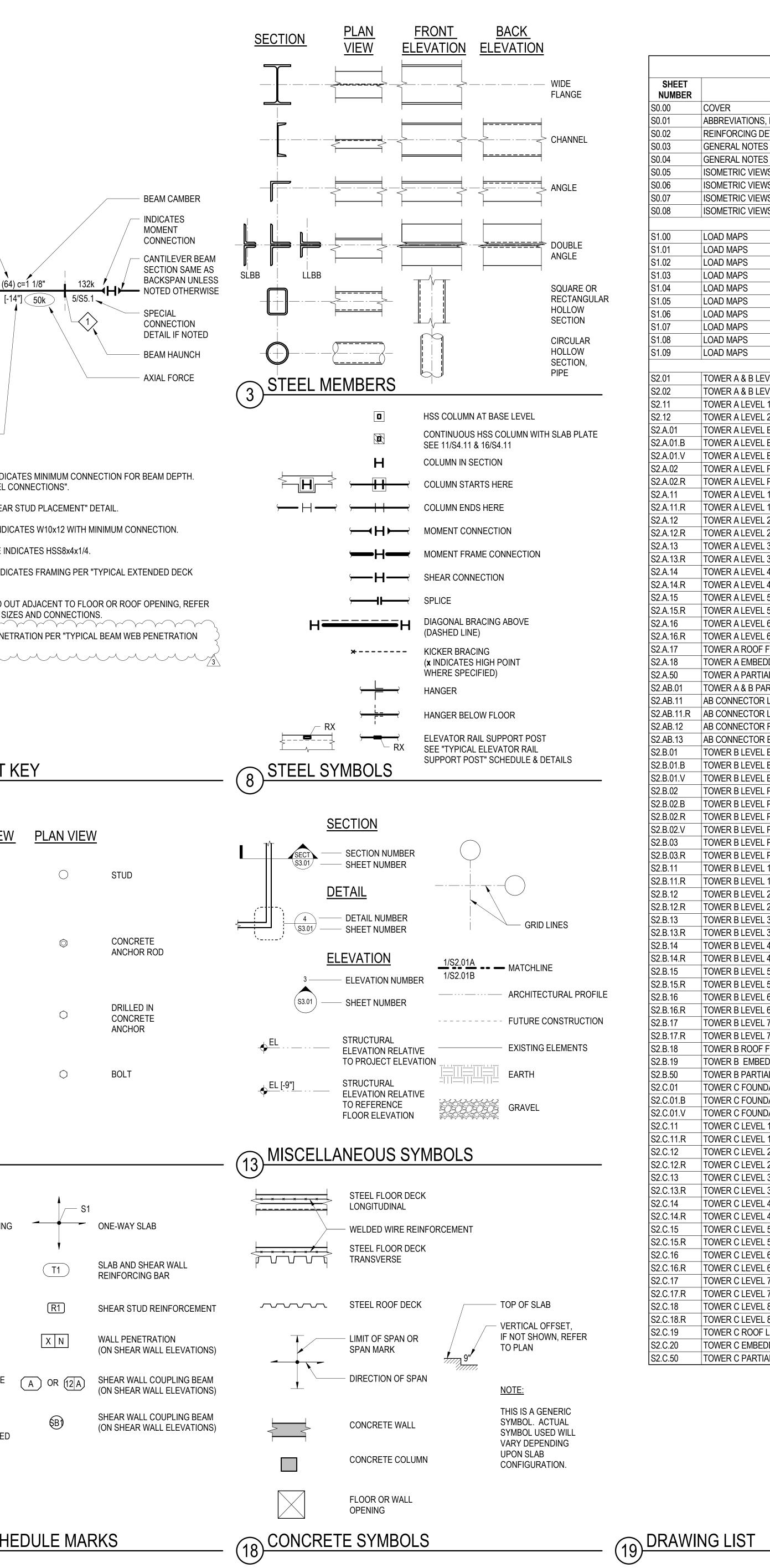
ND IF SHOWN
168k W36x135 (6
EQUIRED C2 SC [- YPICAL ONNECTION A
IDICATES
EAM WEB PENETRATION $-\!\!\!$
IMENSION FROM REFERENCE TOP F STEEL. DIMENSIONS AT BOTH NDS INDICATE SLOPING MEMBER —
OTES:
NO REACTION AT EITHER END INDIC SEE "GENERAL NOTES FOR STEEL
SPACE STUDS PER "TYPICAL SHEAI
"M" IN PLACE OF STEEL SHAPE INDI
"HSS" IN PLACE OF STEEL SHAPE IN
"E" IN PLACE OF STEEL SHAPE INDI EDGE" DETAILS.
WHERE NO BEAM SIZE IS CALLED O TO TYPICAL STEEL DETAILS FOR SI
A INDICATES BEAM WEB PENE DETAILS".

$\overline{7}$	BEAM	CALL	OUT.
$\langle \prime \rangle$			



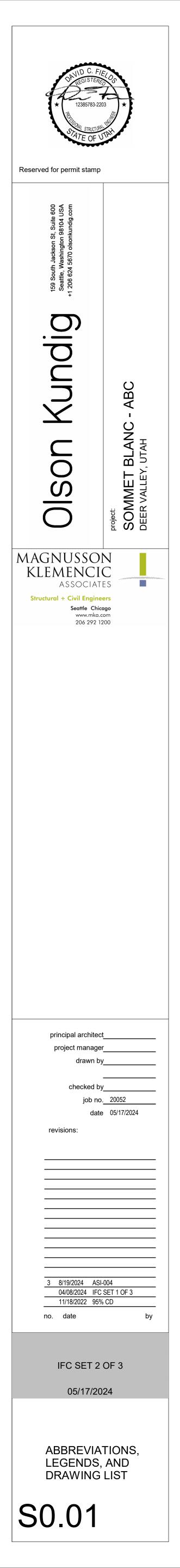
	COLUMN FOOTING
F12	COLUMN
B3	BEAM
MFB3	MOMENT FRAME BEAM
PTB3	POST-TENSIONED BEAM
WF2	WALL FOOTING

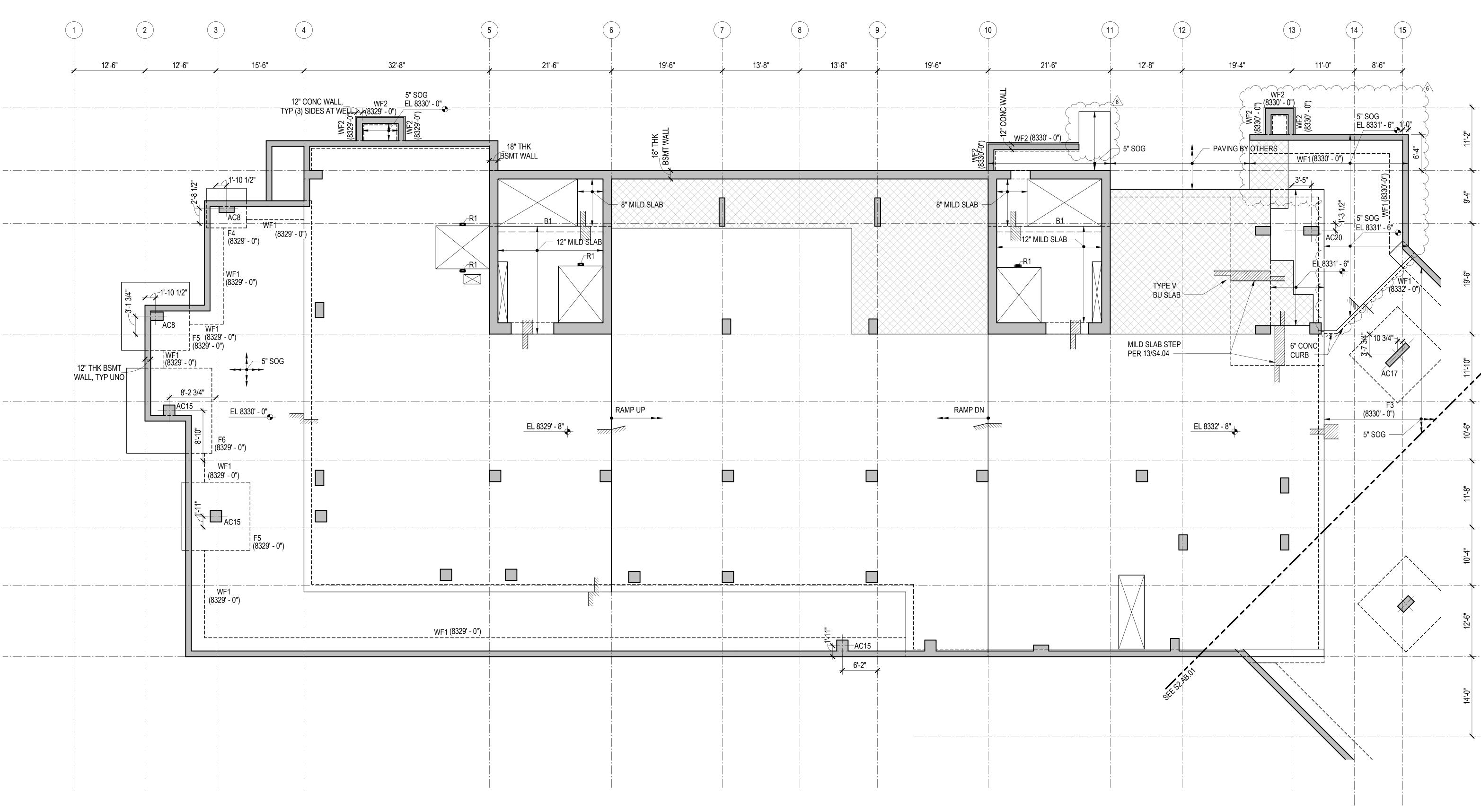
(17) CONCRETE SCHEDULE MARKS



DRAWING LIST			
eet Iber	SHEET NAME		
	ABBREVIATIONS, LEGENDS, AND DRAWING LIST REINFORCING DETAILS		
	GENERAL NOTES GENERAL NOTES		
	ISOMETRIC VIEWS		
	ISOMETRIC VIEWS		
	ISOMETRIC VIEWS		
	LOAD MAPS		
	LOAD MAPS		
	LOAD MAPS LOAD MAPS		
	LOAD MAPS		
	LOAD MAPS LOAD MAPS		
	LOAD MAPS LOAD MAPS		
	LOAD MAPS		
	TOWER A & B LEVEL B1 COMPOSITE FRAMING PLAN		
	TOWER A & B LEVEL P2 COMPOSITE FRAMING PLAN		
	TOWER A LEVEL 1 & TOWER B LEVEL P1 COMPOSITE FRAMING PLAN TOWER A LEVEL 2 & TOWER B LEVEL 1 COMPOSITE FRAMING PLAN		
1	TOWER A LEVEL B1 FRAMING PLAN		
1.B 1.V	TOWER A LEVEL B1 LONGITUDINAL REINFORCING PLAN TOWER A LEVEL B1 SHEAR REINFORCING PLAN		
2 2.R	TOWER A LEVEL P2 FRAMING PLAN		
2.R 1	TOWER A LEVEL P2 REINFORCING PLAN TOWER A LEVEL 1 FRAMING PLAN		
1.R 2	TOWER A LEVEL 1 REINFORCING PLAN TOWER A LEVEL 2 FRAMING PLAN		
2.R	TOWER A LEVEL 2 REINFORCING PLAN		
3 3.R	TOWER A LEVEL 3 FRAMING PLAN TOWER A LEVEL 3 REINFORCING PLAN		
4	TOWER A LEVEL 4 FRAMING PLAN		
4.R 5	TOWER A LEVEL 4 REINFORCING PLAN TOWER A LEVEL 5 FRAMING PLAN		
5.R	TOWER A LEVEL 5 REINFORCING PLAN		
6 6.R	TOWER A LEVEL 6 FRAMING PLAN TOWER A LEVEL 6 REINFORCING PLAN		
7 8	TOWER A ROOF FRAMING PLAN TOWER A EMBEDDED HSS ROOF FRAMING PLAN		
0	TOWER A EMBEDDED HSS ROOF FRAMING FLAN TOWER A PARTIAL PLANS		
01 11	TOWER A & B PARKING LEVEL 2 FRAMING PLAN AB CONNECTOR LEVEL 1 FRAMING PLAN		
11.R	AB CONNECTOR LEVEL 1 REINFORCING PLAN		
12 13	AB CONNECTOR ROOF FRAMING PLAN AB CONNECTOR EMBEDDED HSS ROOF FRAMING PLAN		
1	TOWER B LEVEL B1 FRAMING PLAN		
1.B 1.V	TOWER B LEVEL B1 LONGITUDINAL REINFORCING PLAN TOWER B LEVEL B1 SHEAR REINFORCING PLAN		
2 2.B	TOWER B LEVEL P2 FRAMING PLAN TOWER B LEVEL P2 MAT LONGITUDINAL REINFORCING PLAN		
2.R	TOWER B LEVEL P2 REINFORCING PLAN		
2.V 3	TOWER B LEVEL P2 MAT SHEAR REINFORCING PLAN TOWER B LEVEL P1 FRAMING PLAN		
3.R	TOWER B LEVEL P1 REINFORCING PLAN		
1 1.R	TOWER B LEVEL 1 FRAMING PLAN TOWER B LEVEL 1 REINFORCING PLAN		
2 2.R	TOWER B LEVEL 2 FRAMING PLAN		
2.R 3	TOWER B LEVEL 2 REINFORCING PLAN TOWER B LEVEL 3 FRAMING PLAN		
3.R 4	TOWER B LEVEL 3 REINFORCING PLAN TOWER B LEVEL 4 FRAMING PLAN		
4.R	TOWER B LEVEL 4 REINFORCING PLAN		
5 5.R	TOWER B LEVEL 5 FRAMING PLAN TOWER B LEVEL 5 REINFORCING PLAN		
6	TOWER B LEVEL 6 FRAMING PLAN		
6.R 7	TOWER B LEVEL 6 REINFORCING PLAN TOWER B LEVEL 7 FRAMING PLAN		
7.R 8	TOWER B LEVEL 7 REINFORCING PLAN TOWER B ROOF FRAMING PLAN		
8 9	TOWER B EMBEDDED HSS ROOF FRAMING PLAN		
0 1	TOWER B PARTIAL PLANS TOWER C FOUNDATION LEVEL FRAMING PLAN		
1.B	TOWER C FOUNDATION LONGITUDINAL REINFORCING PLAN		
1.V 1	TOWER C FOUNDATION SHEAR REINFORCING PLAN TOWER C LEVEL 1 FRAMING PLAN		
1.R	TOWER C LEVEL 1 REINFORCING PLAN		
2 2.R	TOWER C LEVEL 2 FRAMING PLAN TOWER C LEVEL 2 REINFORCING PLAN		
3 3.R	TOWER C LEVEL 3 FRAMING PLAN TOWER C LEVEL 3 REINFORCING PLAN		
4	TOWER C LEVEL 4 FRAMING PLAN		
4.R 5	TOWER C LEVEL 4 REINFORCING PLAN TOWER C LEVEL 5 FRAMING PLAN		
5.R	TOWER C LEVEL 5 REINFORCING PLAN		
6 6.R	TOWER C LEVEL 6 FRAMING PLAN TOWER C LEVEL 6 REINFORCING PLAN		
7	TOWER C LEVEL 7 FRAMING PLAN		
7.R 8	TOWER C LEVEL 7 REINFORCING PLAN TOWER C LEVEL 8 FRAMING PLAN		
8.R 9	TOWER C LEVEL 8 REINFORCING PLAN TOWER C ROOF LEVEL FRAMING PLAN		
0	TOWER C ROOF LEVEL FRAMING PLAN TOWER C EMBEDDED HSS FRAMING PLAN		
0	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	
04.00		
S4.00		
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	
S5.00	TOWER A & B CONCRETE SECTIONS AND DETAILS	
S5.01	TOWER A & B CONCRETE SECTIONS AND DETAILS	
S5.02 S5.05	TOWER A & B CONCRETE SECTIONS AND DETAILS	
S5.05 S5.06	TOWER C CONCRETE SECTIONS AND DETAILS	
00.00		
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	





1 TOWER A - PARKING LEVEL 2 FRAMING PLAN

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
- CONCRETE SECTIONS AND DETAILS S5.XX S6.XX STEEL SECTIONS AND DETAILS

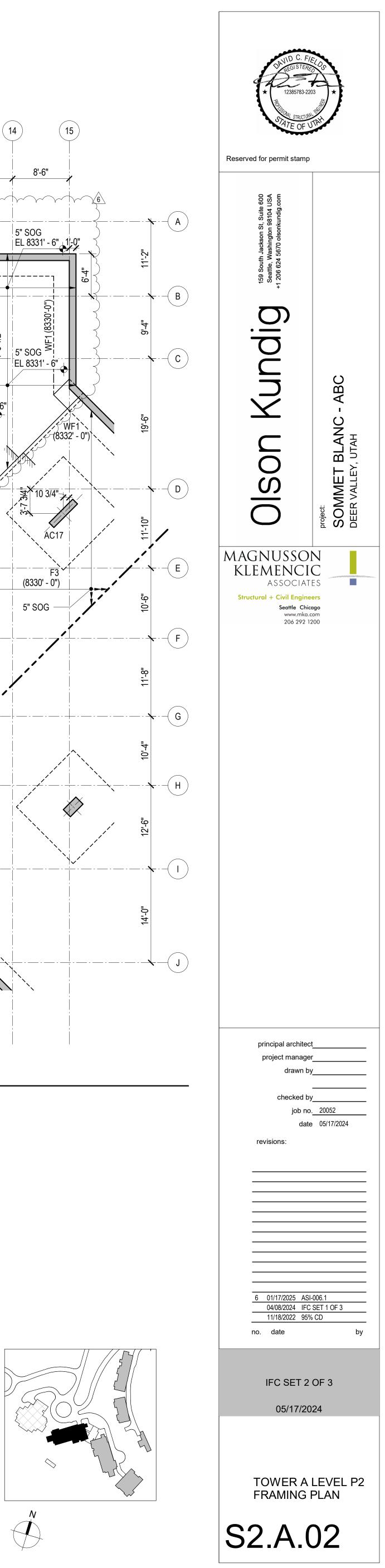
<u>NOTES</u>

- 1. REFERENCE FLOOR ELEVATION IS 8333' 0". TOP OF CONCRETE SLAB IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
- 2. MAT FOUNDATION IS 2'-0" THICK UNLESS NOTED OTHERWISE. UPON REACHING THE MAT FOUNDATION SUBGRADE ELEVATION, SOIL CONDITIONS SHALL BE EVALUATED AND APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD.
- 3. THE STRUCTURAL SLAB IS A 10-INCH THICK MILD TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE THE TYPICAL MILD SLAB DETAILS.
- 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.

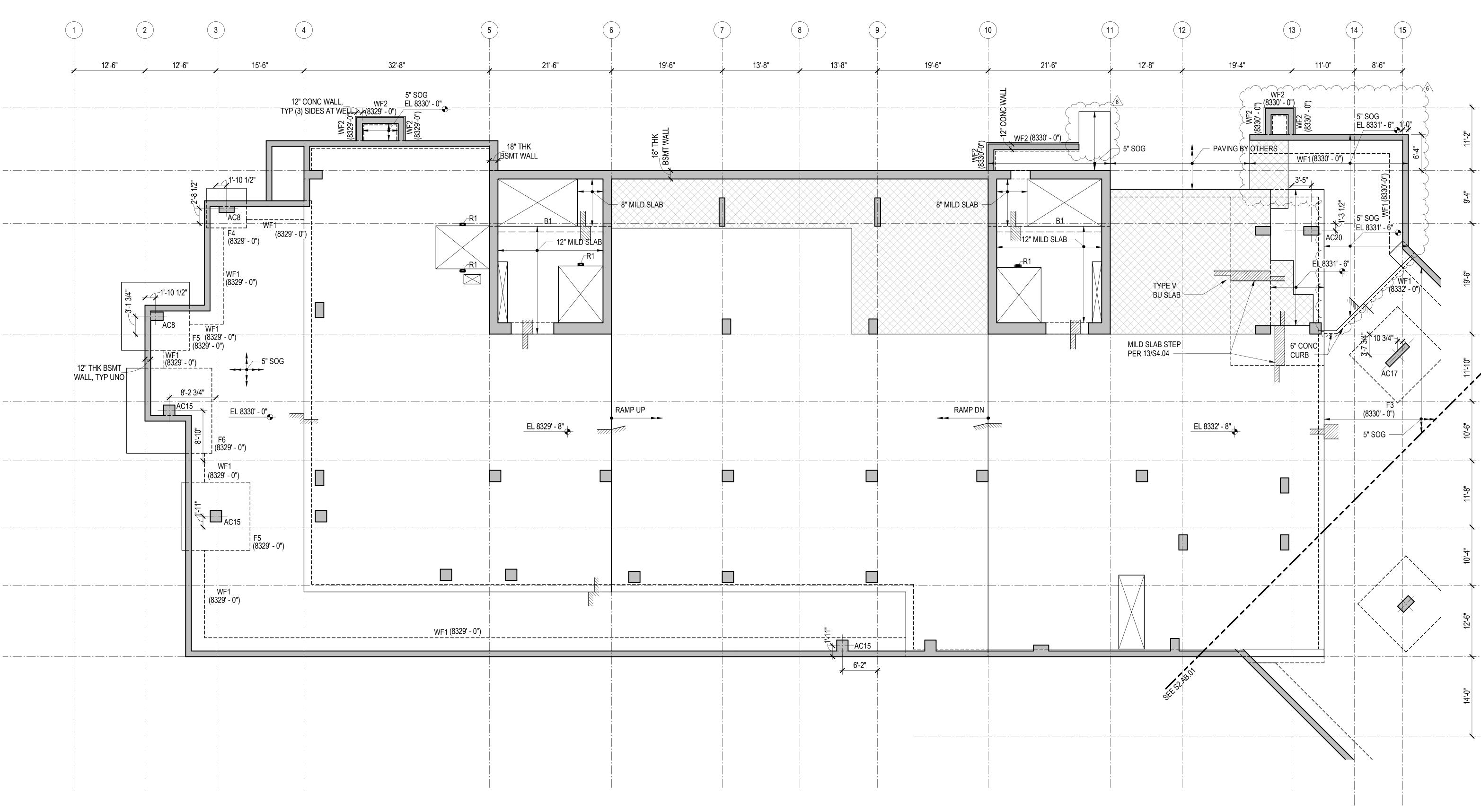
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL 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.







1 TOWER A - PARKING LEVEL 2 FRAMING PLAN

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
- CONCRETE SECTIONS AND DETAILS S5.XX S6.XX STEEL SECTIONS AND DETAILS

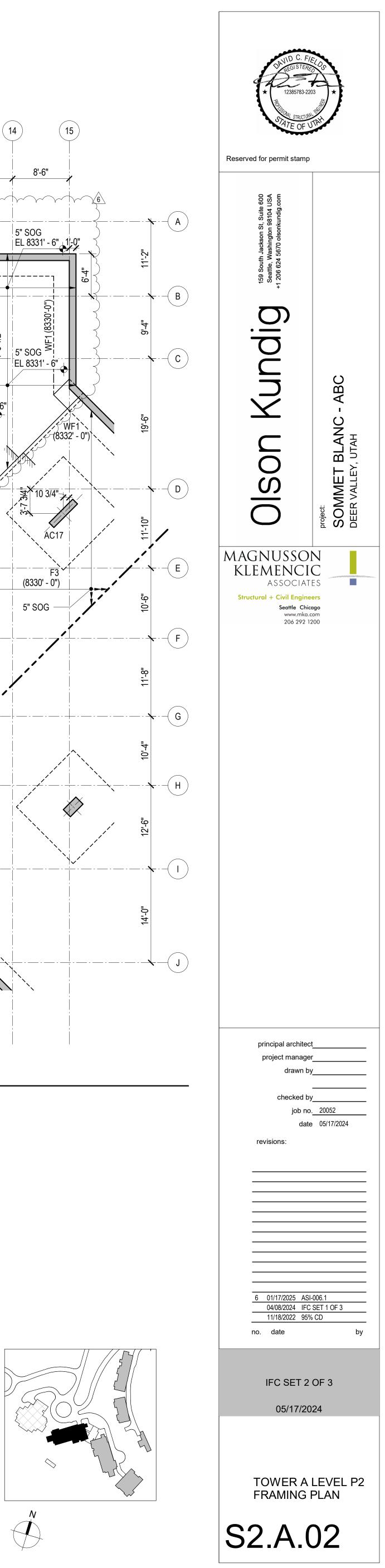
<u>NOTES</u>

- 1. REFERENCE FLOOR ELEVATION IS 8333' 0". TOP OF CONCRETE SLAB IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
- 2. MAT FOUNDATION IS 2'-0" THICK UNLESS NOTED OTHERWISE. UPON REACHING THE MAT FOUNDATION SUBGRADE ELEVATION, SOIL CONDITIONS SHALL BE EVALUATED AND APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD.
- 3. THE STRUCTURAL SLAB IS A 10-INCH THICK MILD TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE THE TYPICAL MILD SLAB DETAILS.
- 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.

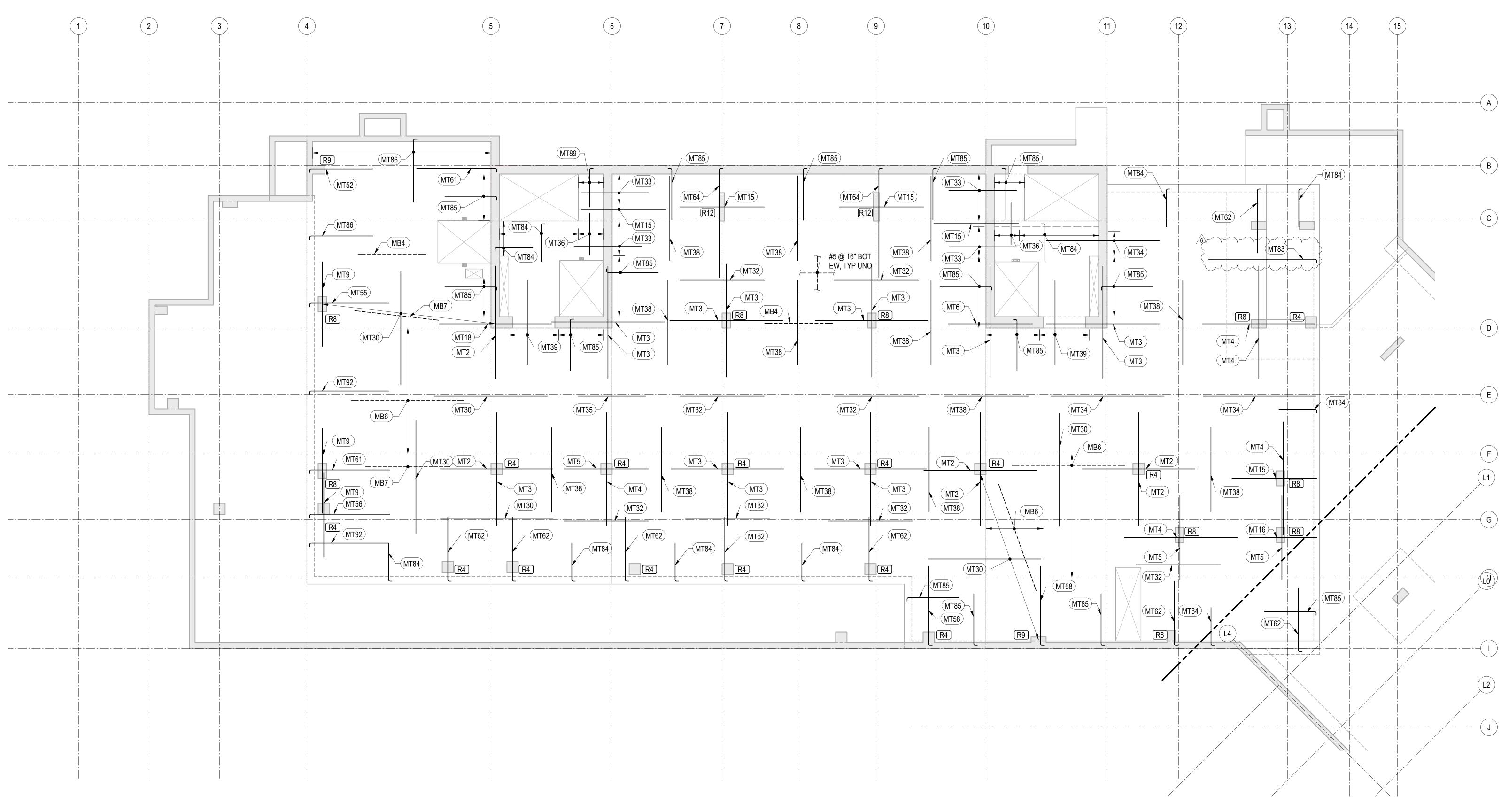
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL 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.







1 TOWER A - PARKING LEVEL 2 - REINFORCEMENT PLAN

REINFORCING NOTES:

- 1. SEE "GENERAL NOTES" FOR REINFORCING REQUIREMENTS.
- 2. SEE "TYPICAL MILD SLAB DETAILS" FOR ADDITIONAL INFORMATION.
- 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.
- 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. WHERE NOTE APPLIES, REINFORCEMENT IS TO BE PLACED WITHIN VERTICALS OF COLUMNS NEAR GRID 7/F & 9/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

IVI
MARK
MT1
MT2
MT3
MT4
MT5
MT6
MT7
MT8
MT9
MT11
MT12
MT13
MT14
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MT16
MT17

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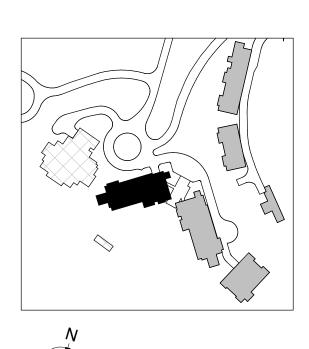
MILD TOP REINFORCEMENT SCHEDULE			
REINFORCING	REMARKS		
(13) #6x20'-0" @ 10"	STAGGER 6'-0"		
(13) #7x20'-0" @ 10"	STAGGER 5'-0"		
(11) #7x20'-0" @ 12"	STAGGER 4'-0"		
(11) #6x20'-0" @ 12"	STAGGER 4'-0"		
(13) #5x15'-0" @ 10"	STAGGER 4'-0"		
(11) #6x15'-0" @ 12"	STAGGER 4'-0"		
(15) #7x15'-0" @ 9"	STAGGER 3'-0"		
(6) #5x15'-0" @ 12"	STAGGER 3'-0"		
(6) #7x15'-0" @ 12"	STAGGER 3'-0"		
(11) #5x12'-0" @ 12"	STAGGER 2'-0"		
(16) #8x20'-0" @ 8"	STAGGER 5'-0"		
(21) #8x20'-0" @ 6"	STAGGER 5'-0"		
(21) #7x20'-0" @ 6"	STAGGER 5'-0"		
(11) #5x15'-0" @ 12"	STAGGER 3'-0"		
(11) #4x12'-0" @ 12"	STAGGER 2'-0"		
(11) #4x15'-0" @ 12"	STAGGER 3'-0"		
	REINFORCING $(13) #6x20'-0" @ 10"$ $(13) #7x20'-0" @ 10"$ $(11) #7x20'-0" @ 12"$ $(11) #6x20'-0" @ 12"$ $(13) #5x15'-0" @ 10"$ $(11) #6x15'-0" @ 12"$ $(15) #7x15'-0" @ 12"$ $(6) #5x15'-0" @ 12"$ $(6) #7x15'-0" @ 12"$ $(16) #8x20'-0" @ 8"$ $(21) #8x20'-0" @ 6"$ $(21) #7x15'-0" @ 12"$ $(11) #5x15'-0" @ 12"$ $(11) #5x12'-0" @ 12"$ $(11) #5x12'-0" @ 12"$ $(11) #5x15'-0" @ 12"$ $(21) #7x20'-0" @ 6"$ $(21) #7x20'-0" @ 12"$ $(11) #5x15'-0" @ 12"$ $(11) #5x15'-0" @ 12"$ $(11) #5x15'-0" @ 12"$		

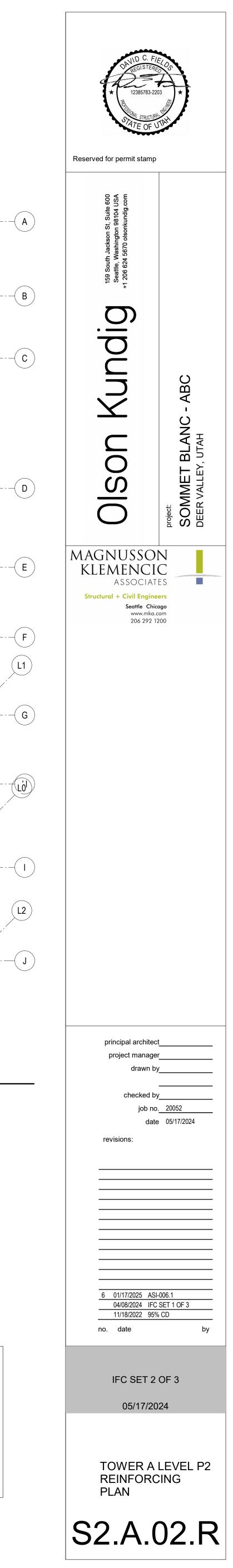
MILD TOP REINFORCEMENT SCHEDULE			
MARK	REINFORCING	REMARKS	
MT18	(16) #8x20'-0" @ 8"	STAGGER 5'-0"	
MT30	#5x20'-0" @ 12"	STAGGER 3'-0"	
MT31	#5x20'-0" @ 10"	STAGGER 2'-0"	
MT32	#5x15'-0" @ 12"	STAGGER 2'-0"	
MT33	#5x12'-0" @ 12"	STAGGER 2'-0"	
MT34	#5x20'-0" @ 12"	STAGGER 4'-0"	
MT35	#5x12'-0" @ 12"	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"	
MT50	(6) #5x24'-2" @ 12"	HOOK AT END	

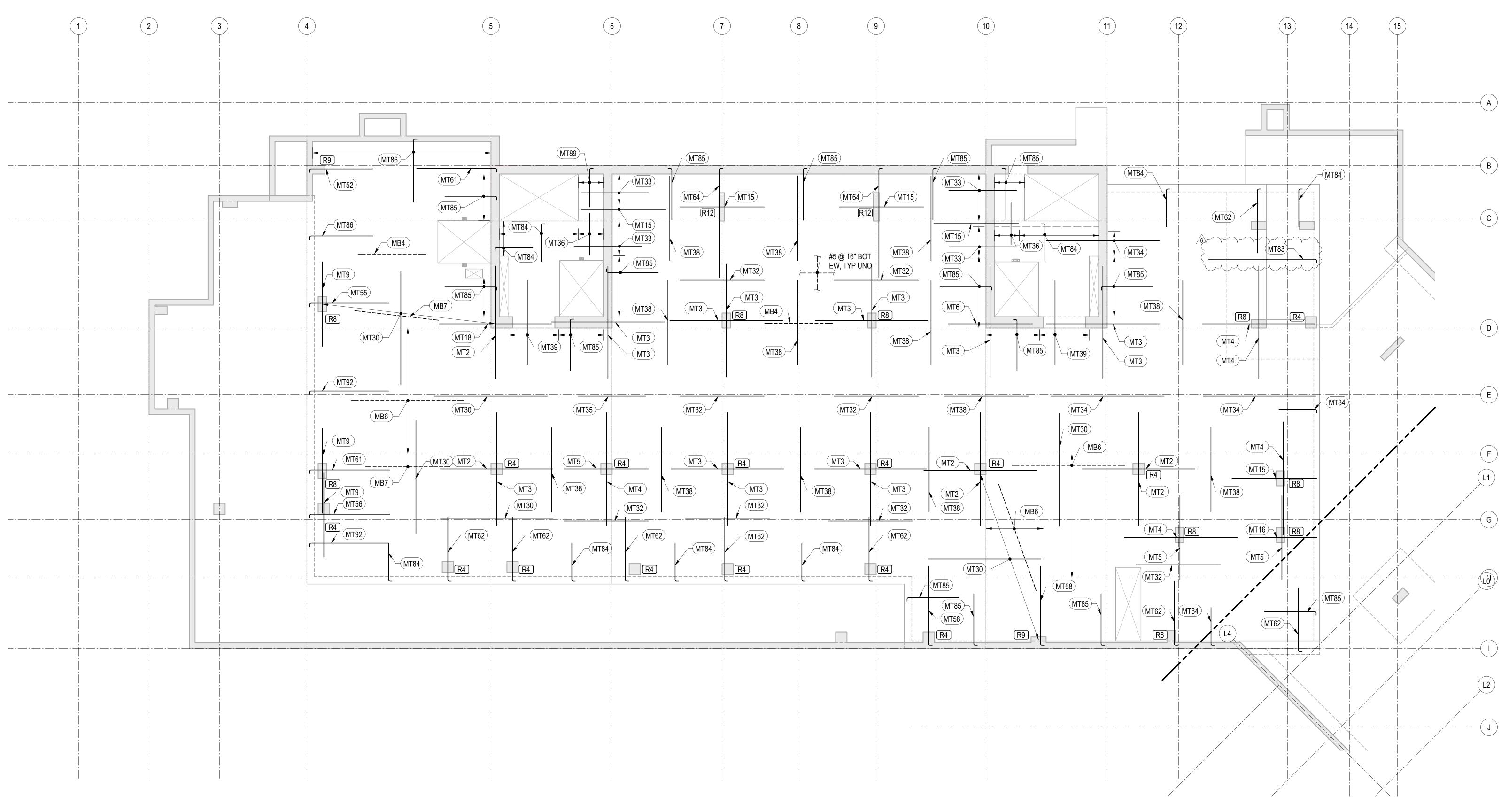
MILD TOP REINFORCEMENT SCHEDULE			
MARK	REINFORCING	REMARKS	
MT51	(11) #5x6'-8" @ 12"	HOOK AT END	
MT52	(11) #5x11'-2" @ 12"	HOOK AT END	
MT53	(7) #6x11'-0" @ 12"	HOOK AT END	
MT54	(11) #5x14-2" @ 12"	HOOK AT END	
MT55	(16) #6x14'-0" @ 8"	HOOK AT END	
MT56	(6) #5x14'-2" @ 12"	HOOK AT END	
MT57	(6) #6x9'-0" @ 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	
MT65	(11) #4x6'-10" @ 12"	HOOK AT END	
MT66	(16) #7x18'-10" @ 8"	HOOK AT END	

MILD TOP REINFORCEMENT SCHEDULE			
MARK	REINFORCING	REMARKS	
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	







1 TOWER A - PARKING LEVEL 2 - REINFORCEMENT PLAN

REINFORCING NOTES:

- 1. SEE "GENERAL NOTES" FOR REINFORCING REQUIREMENTS.
- 2. SEE "TYPICAL MILD SLAB DETAILS" FOR ADDITIONAL INFORMATION.
- 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.
- 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. WHERE NOTE APPLIES, REINFORCEMENT IS TO BE PLACED WITHIN VERTICALS OF COLUMNS NEAR GRID 7/F & 9/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

IVI
MARK
MT1
MT2
MT3
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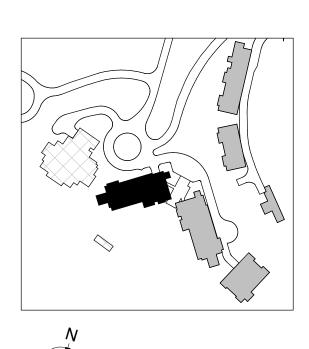
MILD TOP REINFORCEMENT SCHEDULE				
REINFORCING	REMARKS			
(13) #6x20'-0" @ 10"	STAGGER 6'-0"			
(13) #7x20'-0" @ 10"	STAGGER 5'-0"			
(11) #7x20'-0" @ 12"	STAGGER 4'-0"			
(11) #6x20'-0" @ 12"	STAGGER 4'-0"			
(13) #5x15'-0" @ 10"	STAGGER 4'-0"			
(11) #6x15'-0" @ 12"	STAGGER 4'-0"			
(15) #7x15'-0" @ 9"	STAGGER 3'-0"			
(6) #5x15'-0" @ 12"	STAGGER 3'-0"			
(6) #7x15'-0" @ 12"	STAGGER 3'-0"			
(11) #5x12'-0" @ 12"	STAGGER 2'-0"			
(16) #8x20'-0" @ 8"	STAGGER 5'-0"			
(21) #8x20'-0" @ 6"	STAGGER 5'-0"			
(21) #7x20'-0" @ 6"	STAGGER 5'-0"			
(11) #5x15'-0" @ 12"	STAGGER 3'-0"			
(11) #4x12'-0" @ 12"	STAGGER 2'-0"			
(11) #4x15'-0" @ 12"	STAGGER 3'-0"			
	REINFORCING $(13) #6x20'-0" @ 10"$ $(13) #7x20'-0" @ 10"$ $(11) #7x20'-0" @ 12"$ $(11) #6x20'-0" @ 12"$ $(13) #5x15'-0" @ 10"$ $(11) #6x15'-0" @ 12"$ $(15) #7x15'-0" @ 12"$ $(6) #5x15'-0" @ 12"$ $(6) #7x15'-0" @ 12"$ $(16) #8x20'-0" @ 8"$ $(21) #8x20'-0" @ 6"$ $(21) #7x15'-0" @ 12"$ $(11) #5x15'-0" @ 12"$ $(11) #5x12'-0" @ 12"$ $(11) #5x12'-0" @ 12"$ $(11) #5x15'-0" @ 12"$ $(21) #7x20'-0" @ 6"$ $(21) #7x20'-0" @ 12"$ $(11) #5x15'-0" @ 12"$ $(11) #5x15'-0" @ 12"$ $(11) #5x15'-0" @ 12"$			

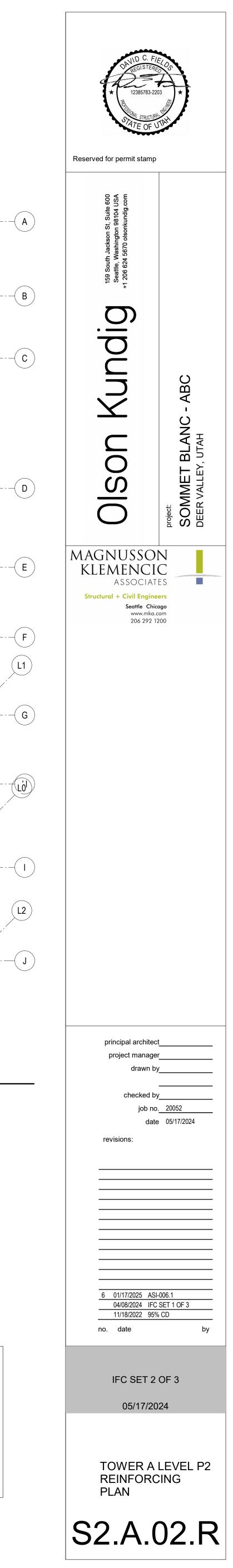
MILD TOP REINFORCEMENT SCHEDULE		
MARK	REINFORCING	REMARKS
MT18	(16) #8x20'-0" @ 8"	STAGGER 5'-0"
MT30	#5x20'-0" @ 12"	STAGGER 3'-0"
MT31	#5x20'-0" @ 10"	STAGGER 2'-0"
MT32	#5x15'-0" @ 12"	STAGGER 2'-0"
MT33	#5x12'-0" @ 12"	STAGGER 2'-0"
MT34	#5x20'-0" @ 12"	STAGGER 4'-0"
MT35	#5x12'-0" @ 12"	STAGGER 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"
MT50	(6) #5x24'-2" @ 12"	HOOK AT END

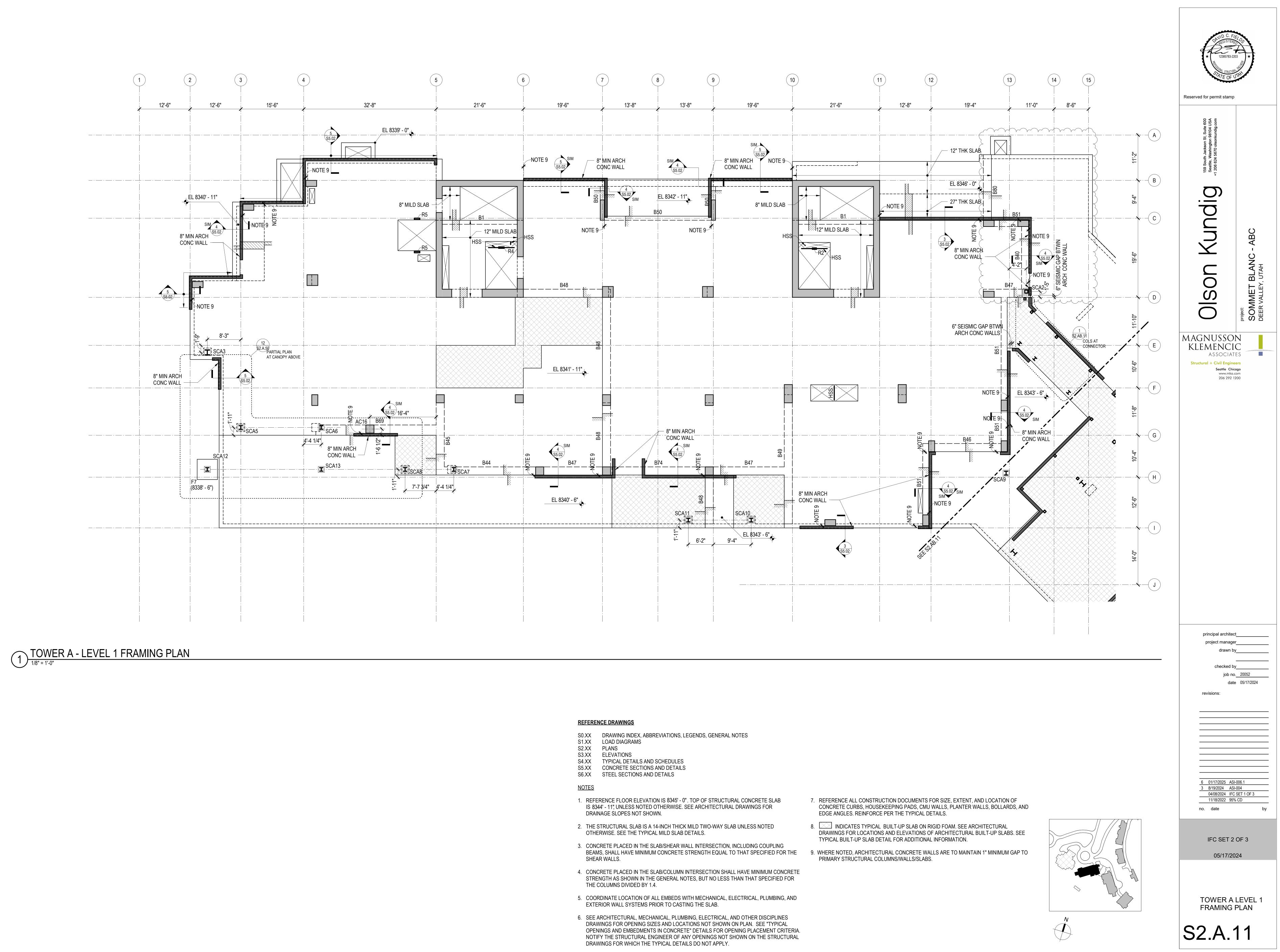
MILD TOP REINFORCEMENT SCHEDULE			
MARK	REINFORCING	REMARKS	
MT51	(11) #5x6'-8" @ 12"	HOOK AT END	
MT52	(11) #5x11'-2" @ 12"	HOOK AT END	
MT53	(7) #6x11'-0" @ 12"	HOOK AT END	
MT54	(11) #5x14-2" @ 12"	HOOK AT END	
MT55	(16) #6x14'-0" @ 8"	HOOK AT END	
MT56	(6) #5x14'-2" @ 12"	HOOK AT END	
MT57	(6) #6x9'-0" @ 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	
MT65	(11) #4x6'-10" @ 12"	HOOK AT END	
MT66	(16) #7x18'-10" @ 8"	HOOK AT END	

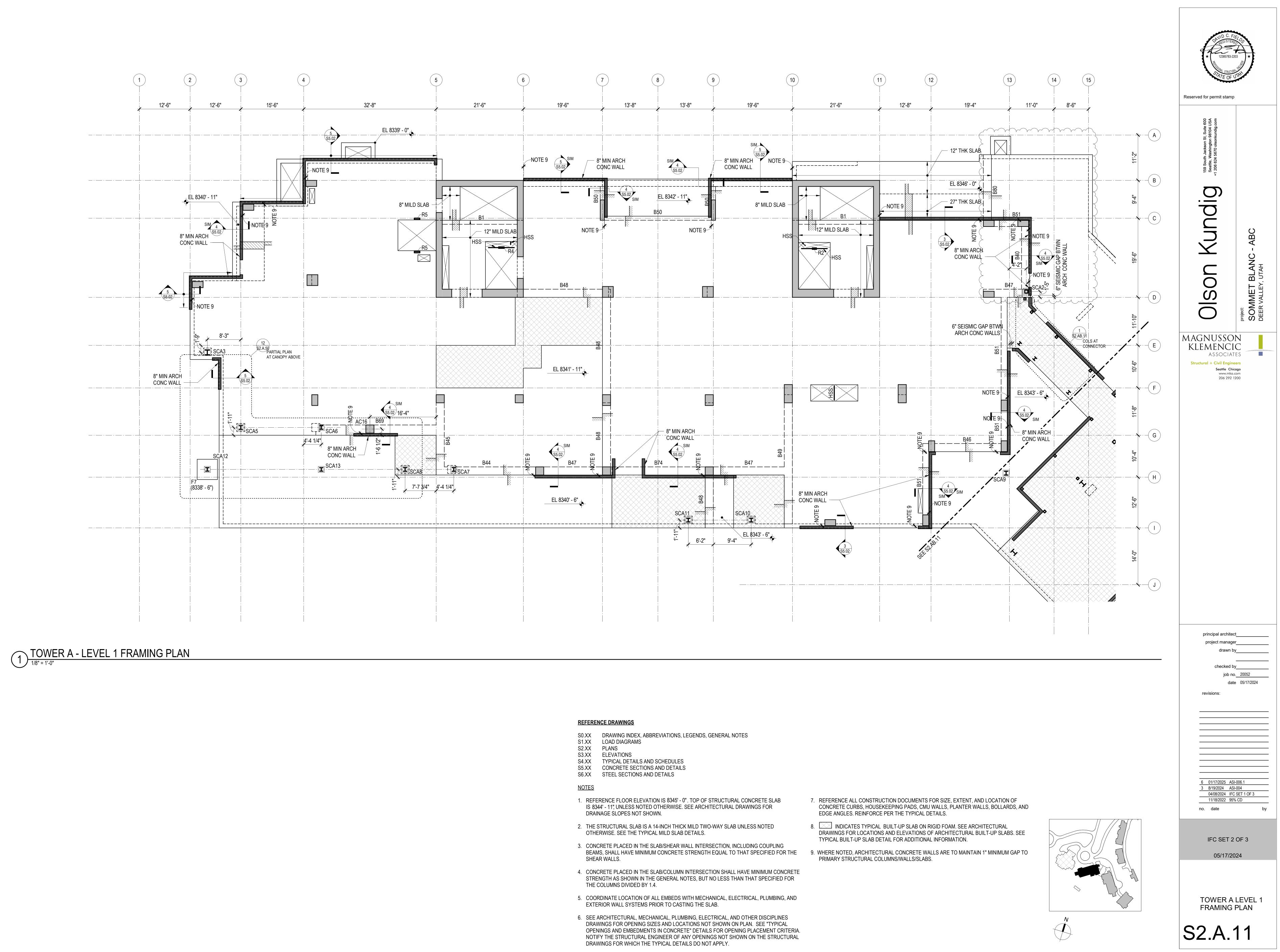
MILD TOP REINFORCEMENT SCHEDULE		
MARK	REINFORCING	REMARKS
MT80	#5 @ 12"	HOOK BOTH ENDS
MT81	#5x14'-2" @ 12"	HOOK AT END
MT82	#6x29'-0" @ 12"	HOOK AT END
MT83	#5x19'-2" @ 12"	HOOK AT END
MT84	#5x6'-8" @ 12"	HOOK AT END
MT85	#5x9'-2" @ 12"	HOOK AT END
MT86	#5x11'-2" @ 12"	HOOK AT END
MT87	#6x11'-0" @ 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

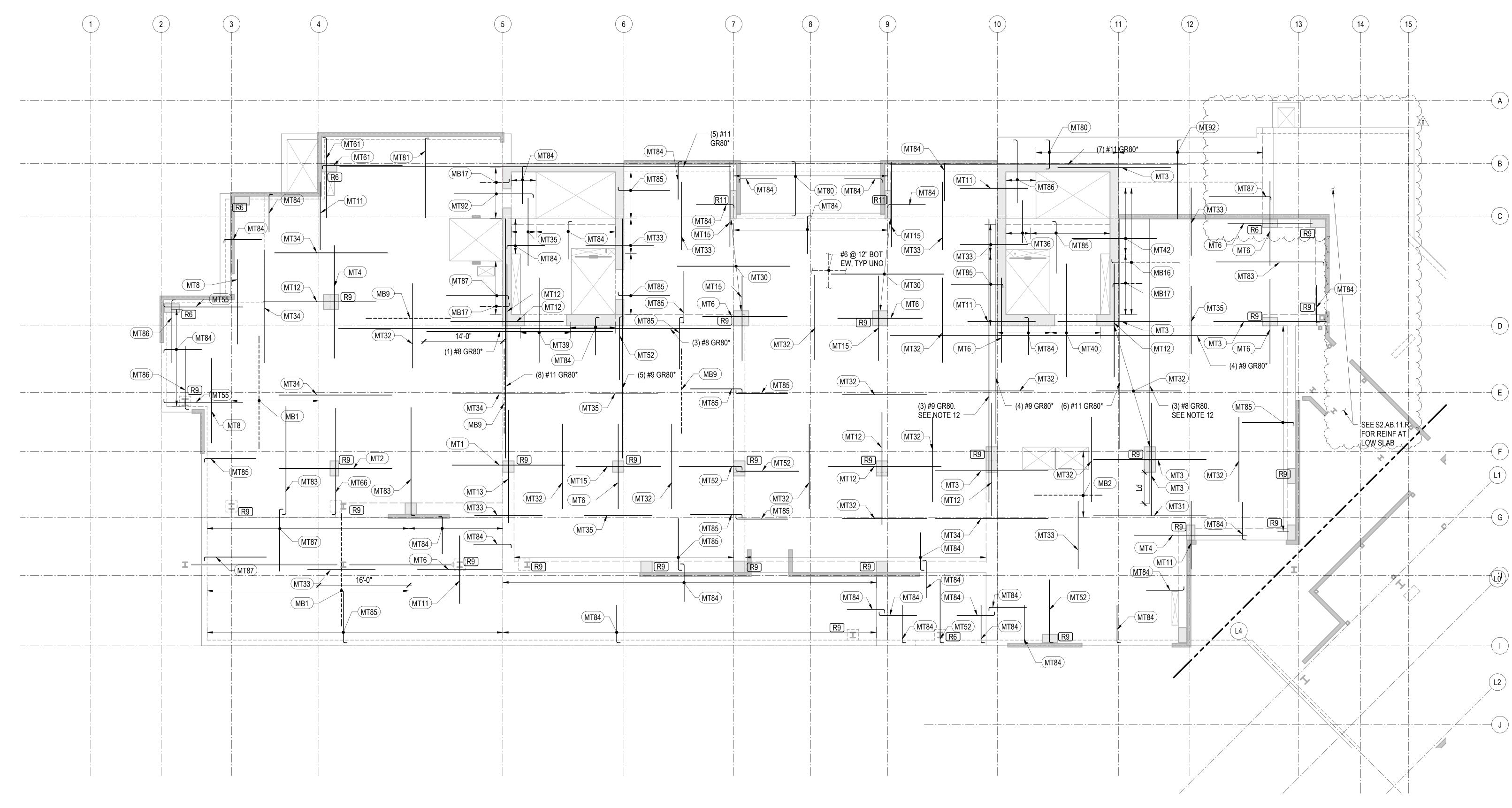
MILD BOTTOM REINFORCEMENT SCHEDULE			
MARK	REINFORCING	REMARKS	
MB1	#5x20'-0" @ 12"	STAGGER 2'-0"	
MB2	#5x12'-0" @ 24"	STAGGER 2'-0"	
MB4	(3) #5x12'-0" @ 14"	STAGGER 2'-0"	
MB5	#5x20'-0" @ 18"	STAGGER 2'-0"	
MB6	#5x20'-0" @ 16"	STAGGER 2'-0"	
MB7	(6) #5x15'-0" @ 16"	STAGGER 2'-0"	
MB8	(11) #5x20'-0" @ 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	











1 TOWER A - LEVEL 1 - REINFORCEMENT PLAN

REINFORCING NOTES:

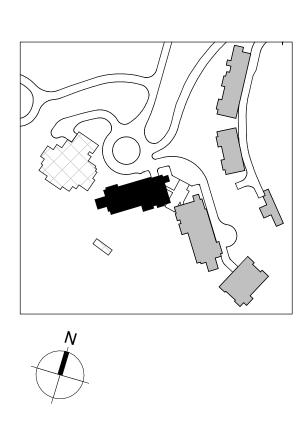
- 1. SEE "GENERAL NOTES" FOR REINFORCING REQUIREMENTS.
- 2. SEE "TYPICAL MILD SLAB DETAILS" FOR ADDITIONAL INFORMATION.
- 3. SLAB REINFORCING SHALL BE PLACED IN THE FOLLOWING SEQUENCE: E-W BOTTOM BARS
- N-S BOTTOM BARS
- N-S TOP BARS E-W TOP BARS
- 4. FOR CONTINUOUS BOTTOM BARS, LAP BARS Lsb AS REQUIRED 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.

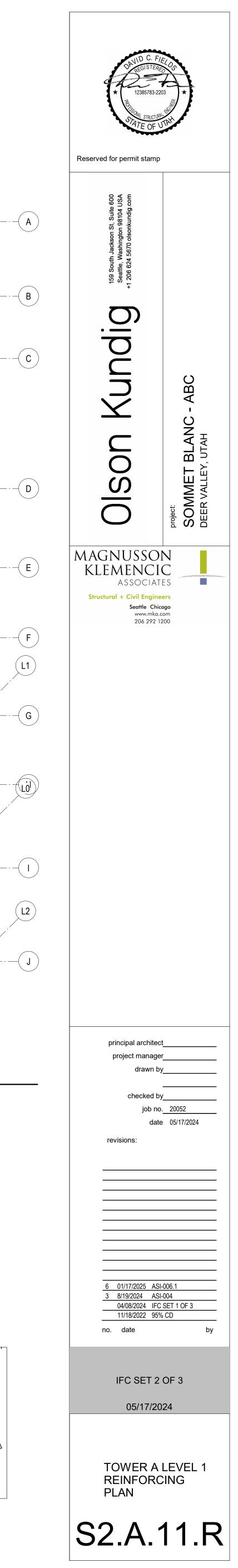
MILD TOP REINFORCEMENT SCHEDULE		MILD TOP REINFORCEMENT SCHEDULE MILD TOP REINFORCEMENT SCHEDULE	
MARK	REINFORCING	REMARKS	
MT1	(13) #6x20'-0" @ 10"	STAGGER 6'-0"	
Г2	(13) #7x20'-0" @ 10"	STAGGER 5'-0"	
MT3	(11) #7x20'-0" @ 12"	STAGGER 4'-0"	
MT4	(11) #6x20'-0" @ 12"	STAGGER 4'-0"	
MT5	(13) #5x15'-0" @ 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"	
/IT11	(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"	
MT17	(11) #4x15'-0" @ 12"	STAGGER 3'-0"	

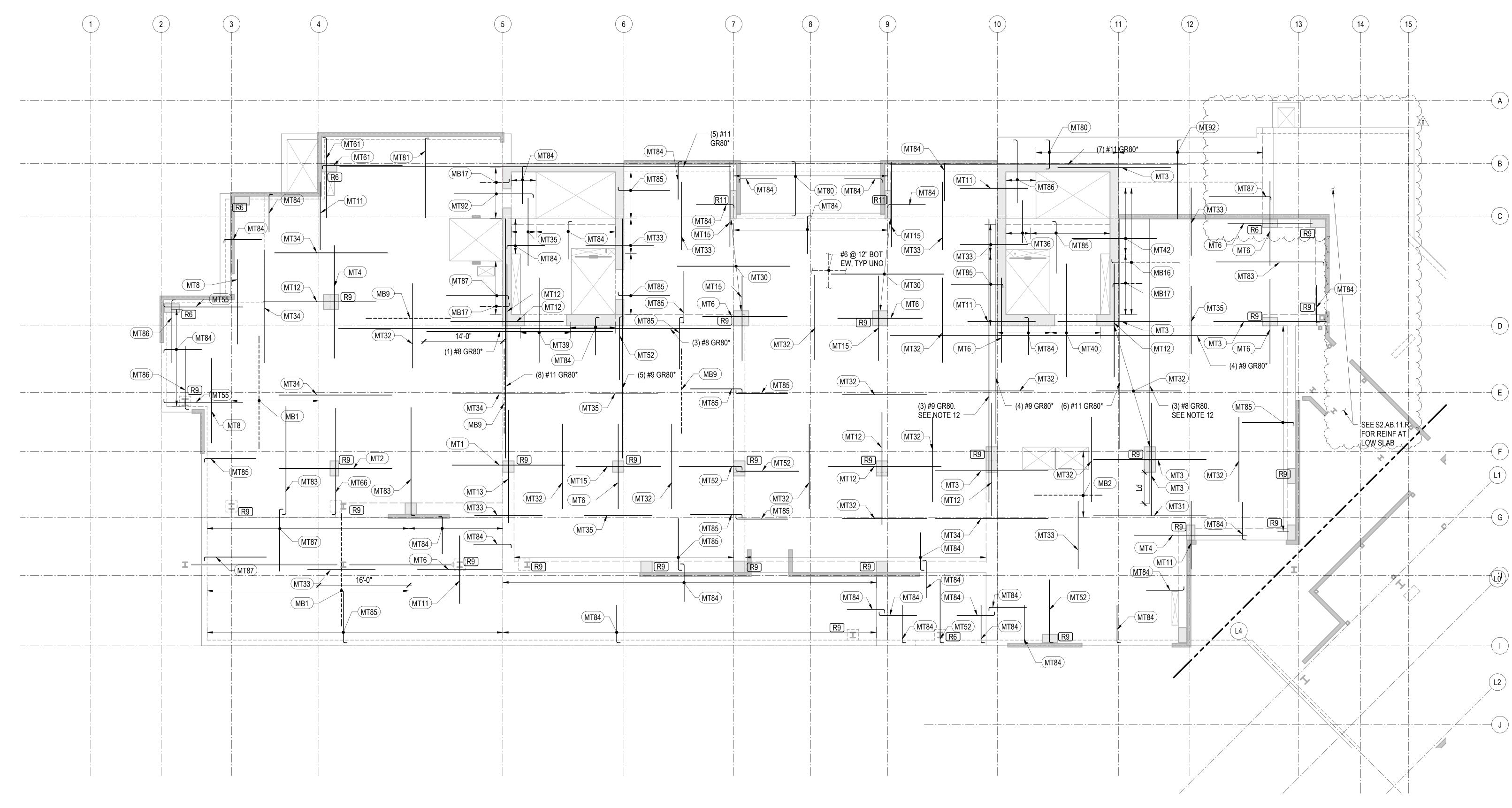
12. WHERE NOTE APPLIES, REINFORCEMENT IS DIAPHRAGM REINFORCEMENT THAT IS PART OF THE LATERAL FORCE RESISTING SYSTEM AND IN ADDITION TO OTHER BARS SHOWN. REINFORCEMENT IS TO BE PLACED WITHIN VERTICALS OF COLUMNS AT GRIDS 10/F OR 11.4/F. REINFORCEMENT SHALL BE CENTERED IN SLAB MID-DEPTH. REINFORCEMENT 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
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	







1 TOWER A - LEVEL 1 - REINFORCEMENT PLAN

REINFORCING NOTES:

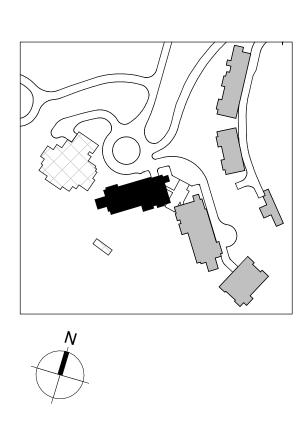
- 1. SEE "GENERAL NOTES" FOR REINFORCING REQUIREMENTS.
- 2. SEE "TYPICAL MILD SLAB DETAILS" FOR ADDITIONAL INFORMATION.
- 3. SLAB REINFORCING SHALL BE PLACED IN THE FOLLOWING SEQUENCE: E-W BOTTOM BARS
- N-S BOTTOM BARS
- N-S TOP BARS E-W TOP BARS
- 4. FOR CONTINUOUS BOTTOM BARS, LAP BARS Lsb AS REQUIRED 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.

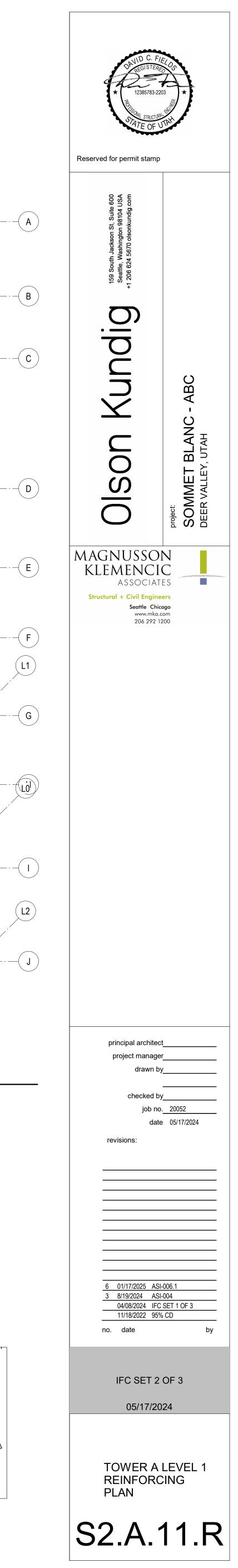
MILD TOP REINFORCEMENT SCHEDULE		MILD TOP REINFORCEMENT SCHEDULE MILD TOP REINFORCEMENT SCHEDULE	
MARK	REINFORCING	REMARKS	
MT1	(13) #6x20'-0" @ 10"	STAGGER 6'-0"	
Г2	(13) #7x20'-0" @ 10"	STAGGER 5'-0"	
MT3	(11) #7x20'-0" @ 12"	STAGGER 4'-0"	
MT4	(11) #6x20'-0" @ 12"	STAGGER 4'-0"	
MT5	(13) #5x15'-0" @ 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"	
/IT11	(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"	
MT17	(11) #4x15'-0" @ 12"	STAGGER 3'-0"	

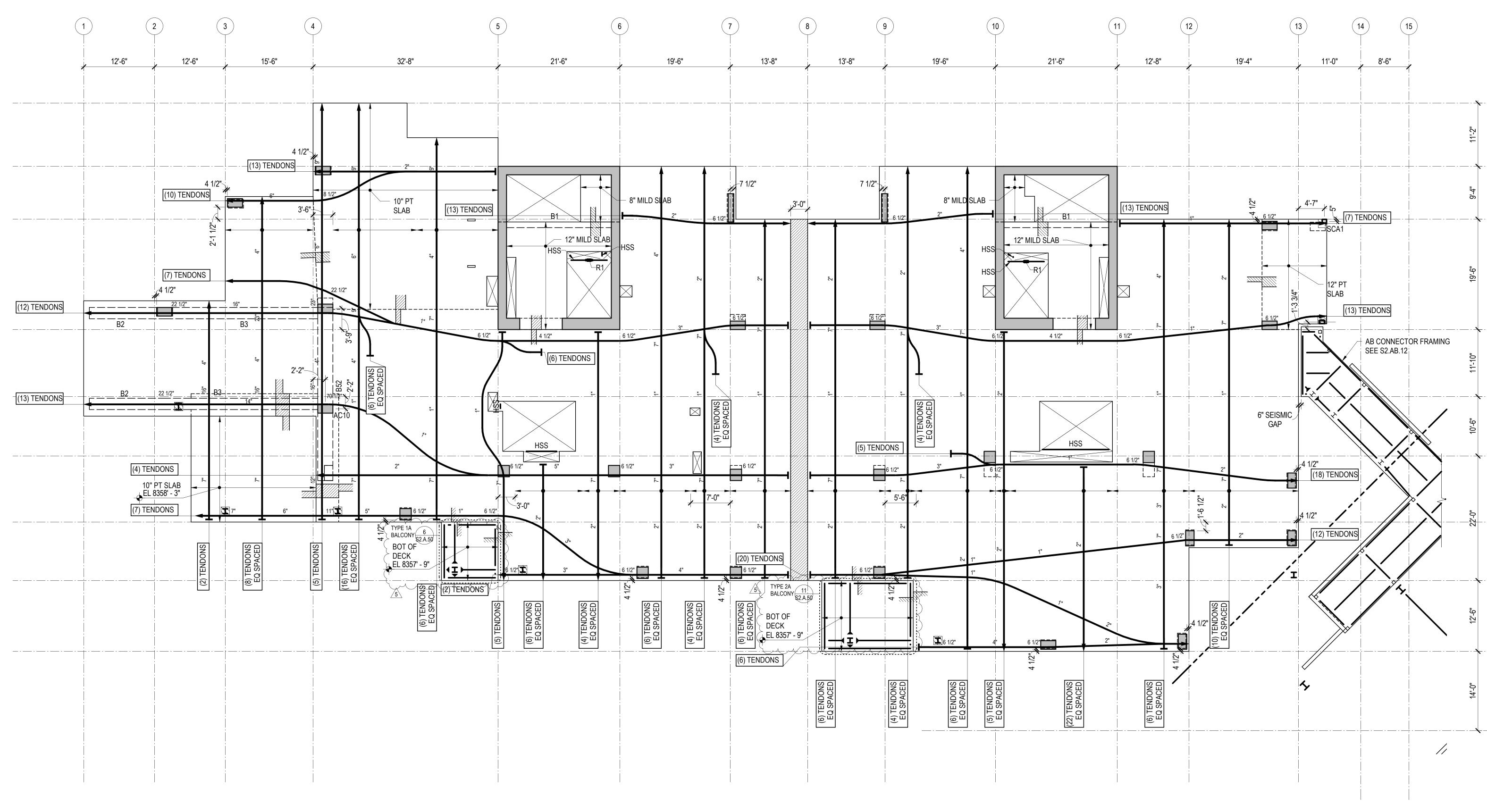
12. WHERE NOTE APPLIES, REINFORCEMENT IS DIAPHRAGM REINFORCEMENT THAT IS PART OF THE LATERAL FORCE RESISTING SYSTEM AND IN ADDITION TO OTHER BARS SHOWN. REINFORCEMENT IS TO BE PLACED WITHIN VERTICALS OF COLUMNS AT GRIDS 10/F OR 11.4/F. REINFORCEMENT SHALL BE CENTERED IN SLAB MID-DEPTH. REINFORCEMENT 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
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







1 TOWER A - LEVEL 2 FRAMING PLAN

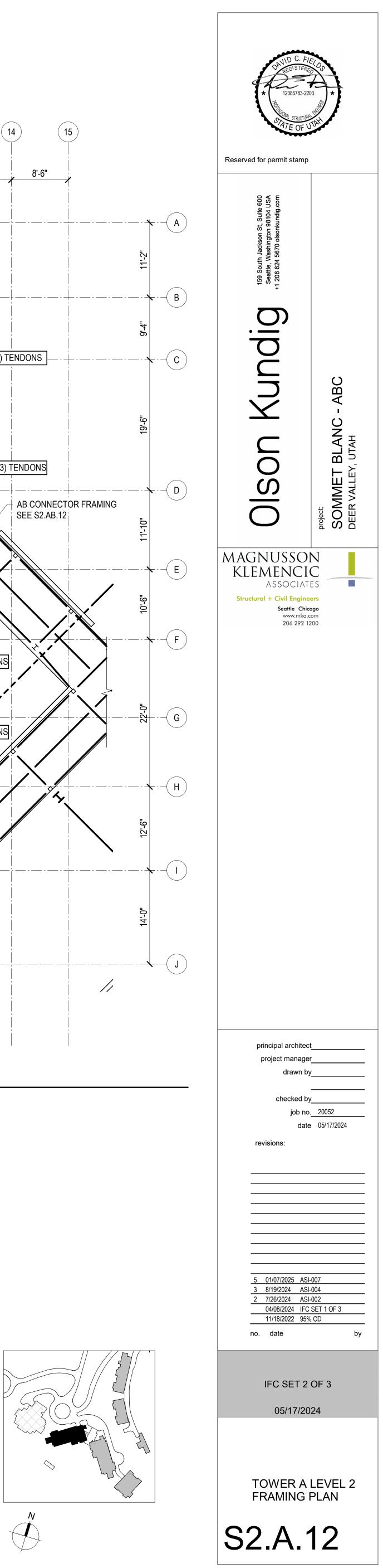
REFERENCE DRAWINGS

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

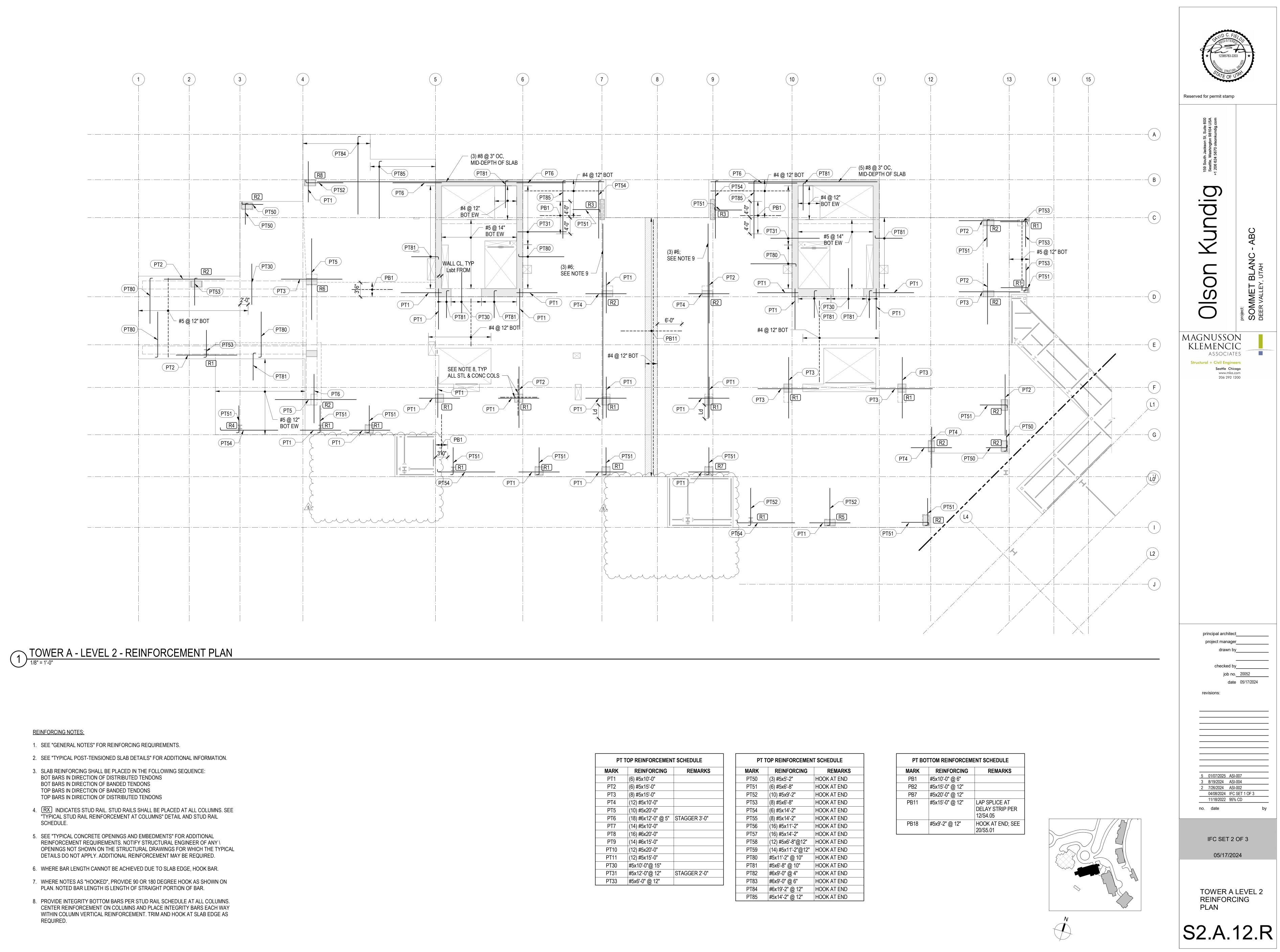
<u>NOTES</u>

- 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.







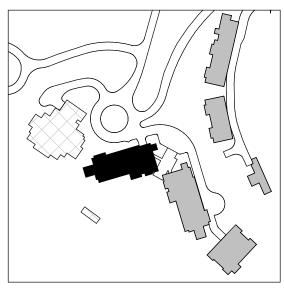
REINFORCING NOTES:

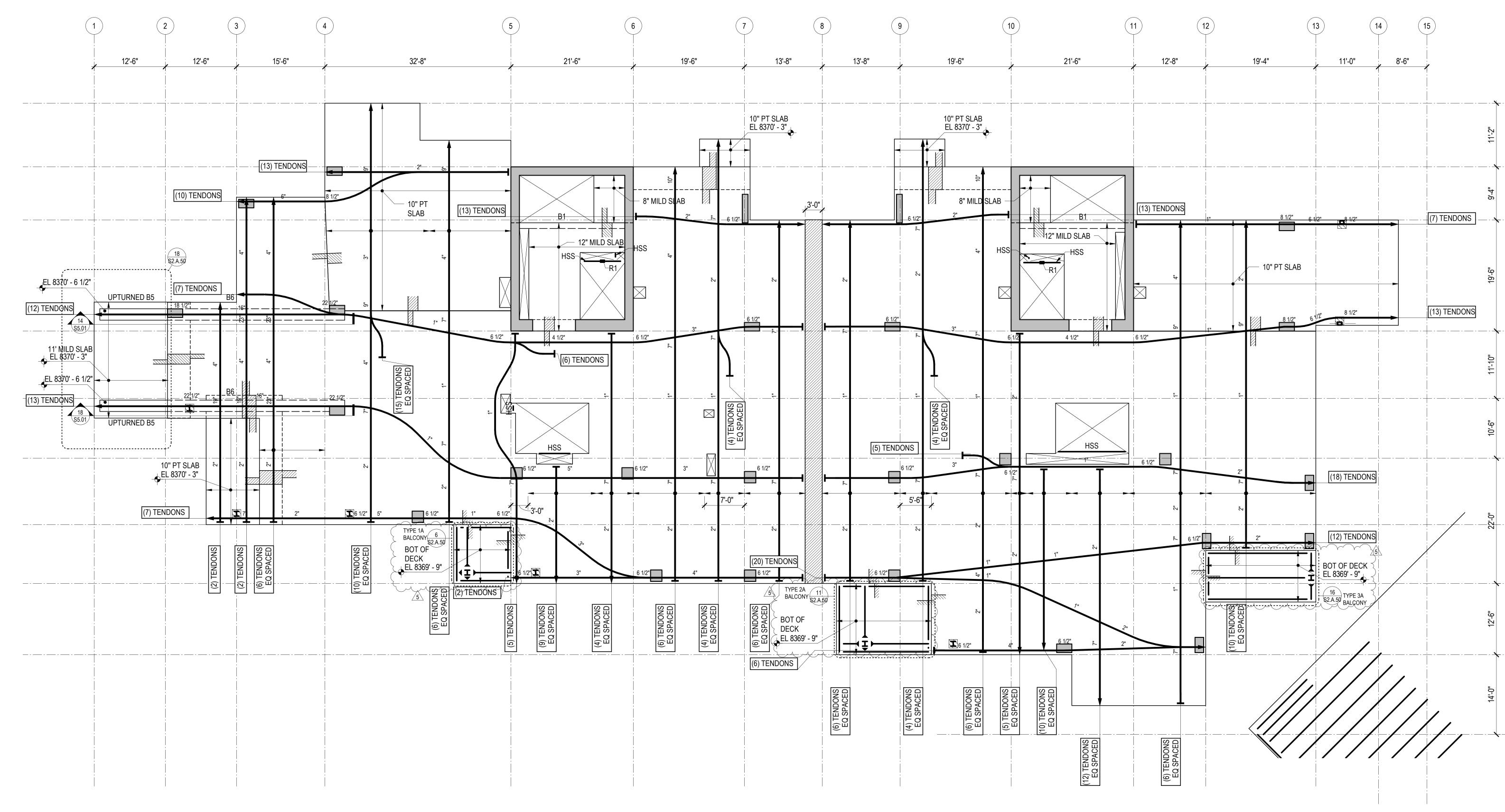
- 1. SEE "GENERAL NOTES" FOR REINFORCING REQUIREMENTS.
- 2. SEE "TYPICAL POST-TENSIONED SLAB DETAILS" FOR ADDITIONAL INFORMATION.
- 3. SLAB REINFORCING SHALL BE PLACED IN THE FOLLOWING SEQUENCE:
- BOT BARS IN DIRECTION OF DISTRIBUTED TENDONS BOT BARS IN DIRECTION OF BANDED TENDONS
- TOP BARS IN DIRECTION OF 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
- 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
- 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.

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"	HOOK AT END	
PT53	(8) #5x6'-8"	HOOK AT END	
PT54	(6) #5x14'-2"	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





1 TOWER A - LEVEL 3 FRAMING PLAN

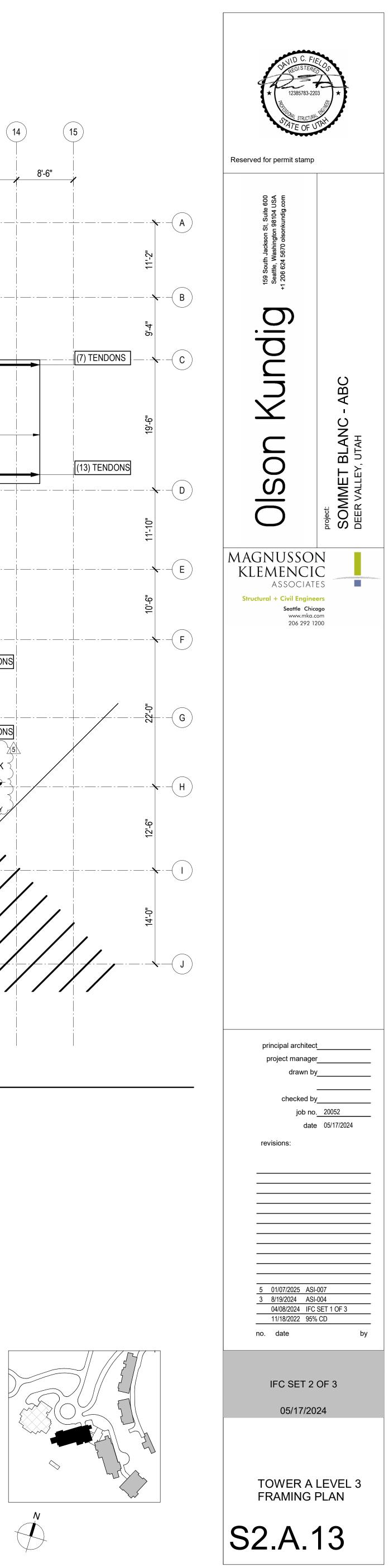
REFERENCE DRAWINGS

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

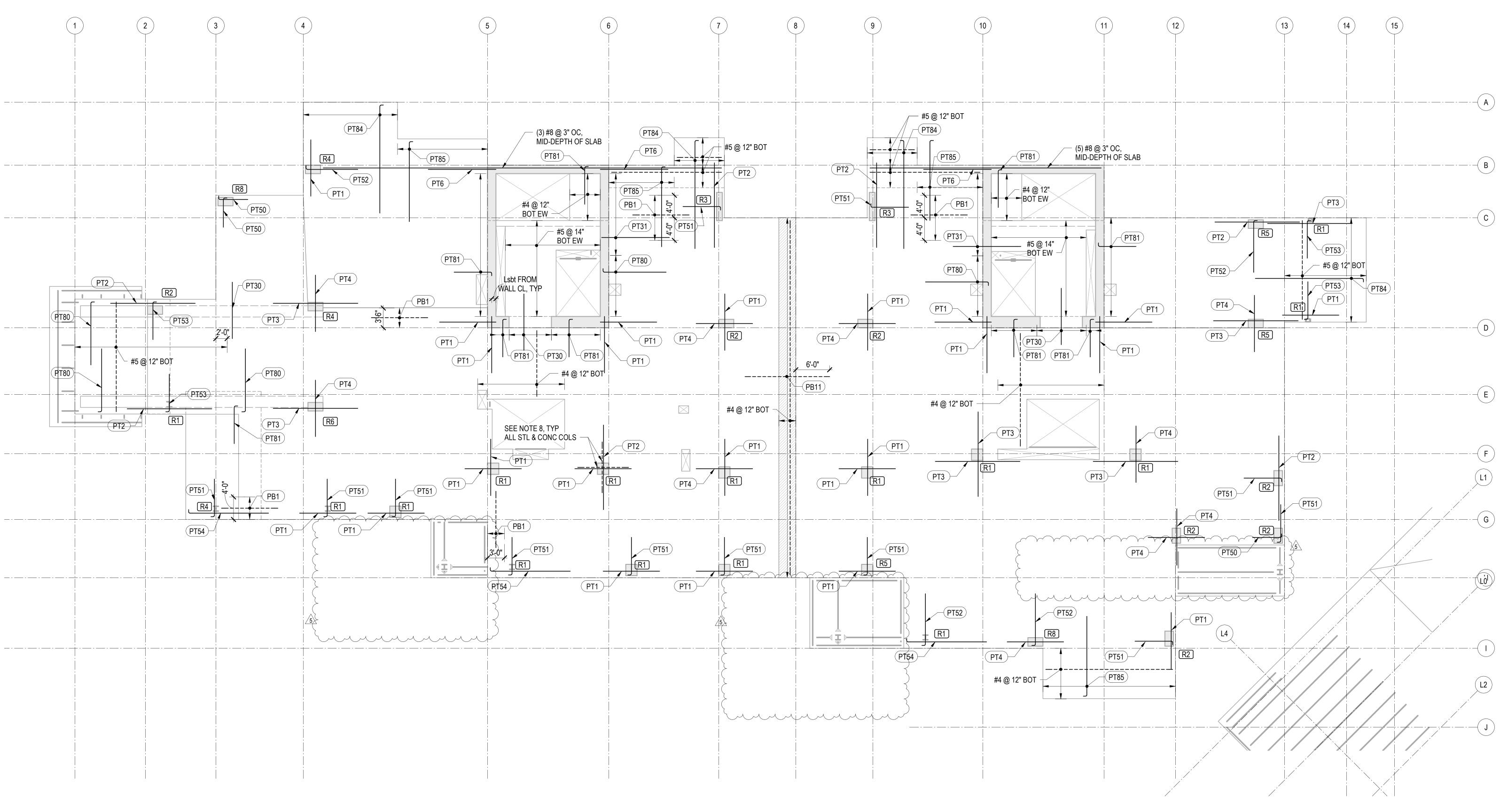
<u>NOTES</u>

- 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.







1 TOWER A - LEVEL 3 - REINFORCEMENT PLAN

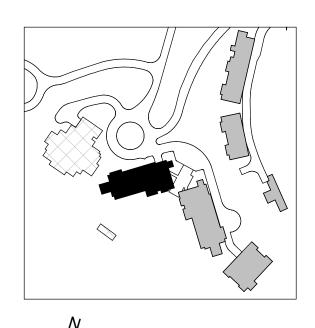
REINFORCING NOTES:

- 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.

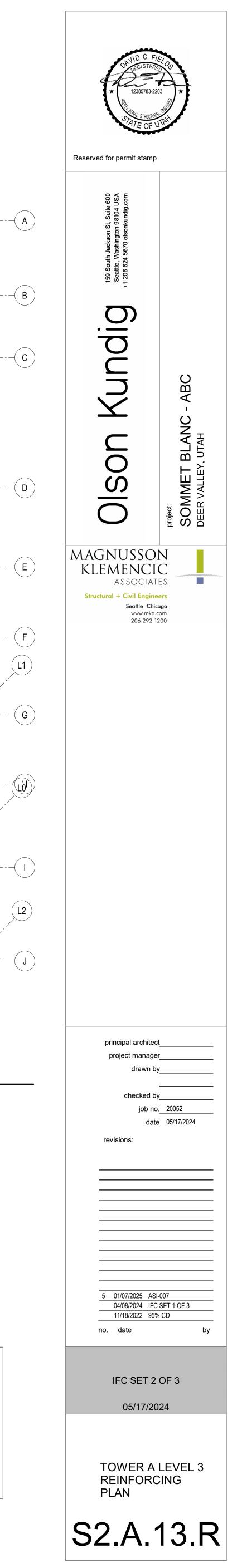
MARK	REINFORCING	REMARKS
PT1	(6) #5x10'-0"	
PT2	(6) #5x15'-0"	
PT3	(8) #5x15'-0"	
PT4	(12) #5x10'-0"	
PT5	(10) #5x20'-0"	
PT6	(18) #6x12'-0" @ 5"	STAGGER 3'-0"
PT7	(14) #5x10'-0"	
PT8	(16) #6x20'-0"	
PT9	(14) #6x15'-0"	
PT10	(12) #5x20'-0"	
PT11	(12) #5x15'-0"	
PT30	#5x10'-0"@ 15"	
PT31	#5x12'-0"@ 12"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

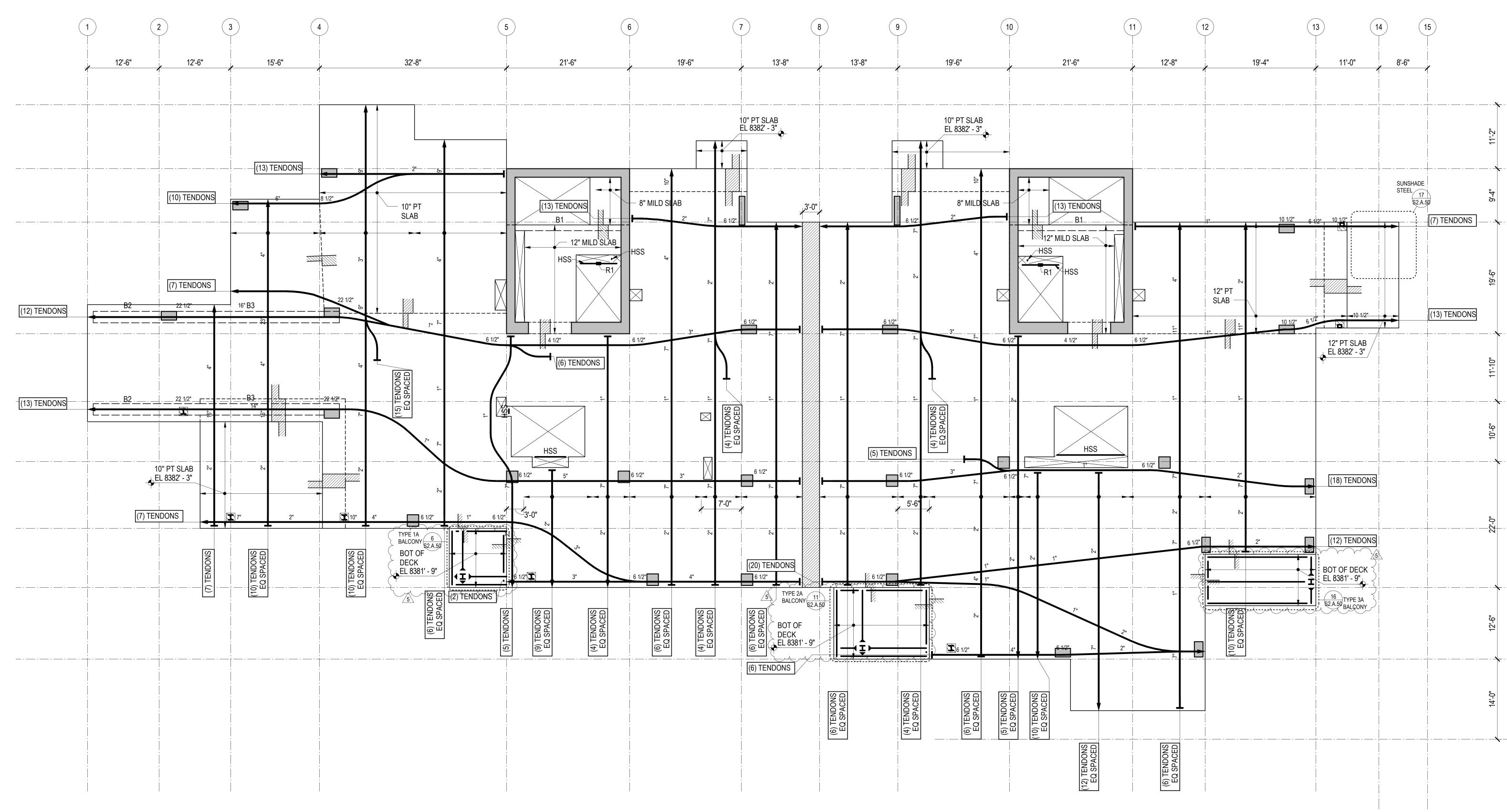
PT TOP REINFORCEMENT SCHEDULE			
MARK	REINFORCING	REMARKS	
PT50	(3) #5x5'-2"	HOOK AT END	
PT51	(6) #5x6'-8"	HOOK AT END	
PT52	(10) #5x9'-2"	HOOK AT END	
PT53	(8) #5x6'-8"	HOOK AT END	
PT54	(6) #5x14'-2"	HOOK AT END	
PT55	(8) #5x14'-2"	HOOK AT END	
PT56	(16) #5x11'-2"	HOOK AT END	
PT57	(16) #5x14'-2"	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



A





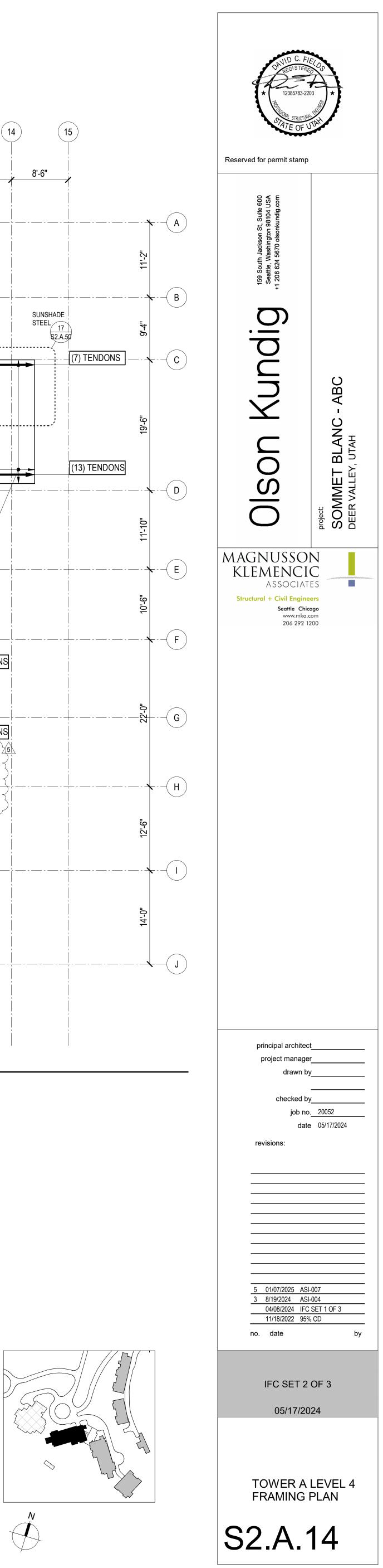
1 TOWER A - LEVEL 4 FRAMING PLAN

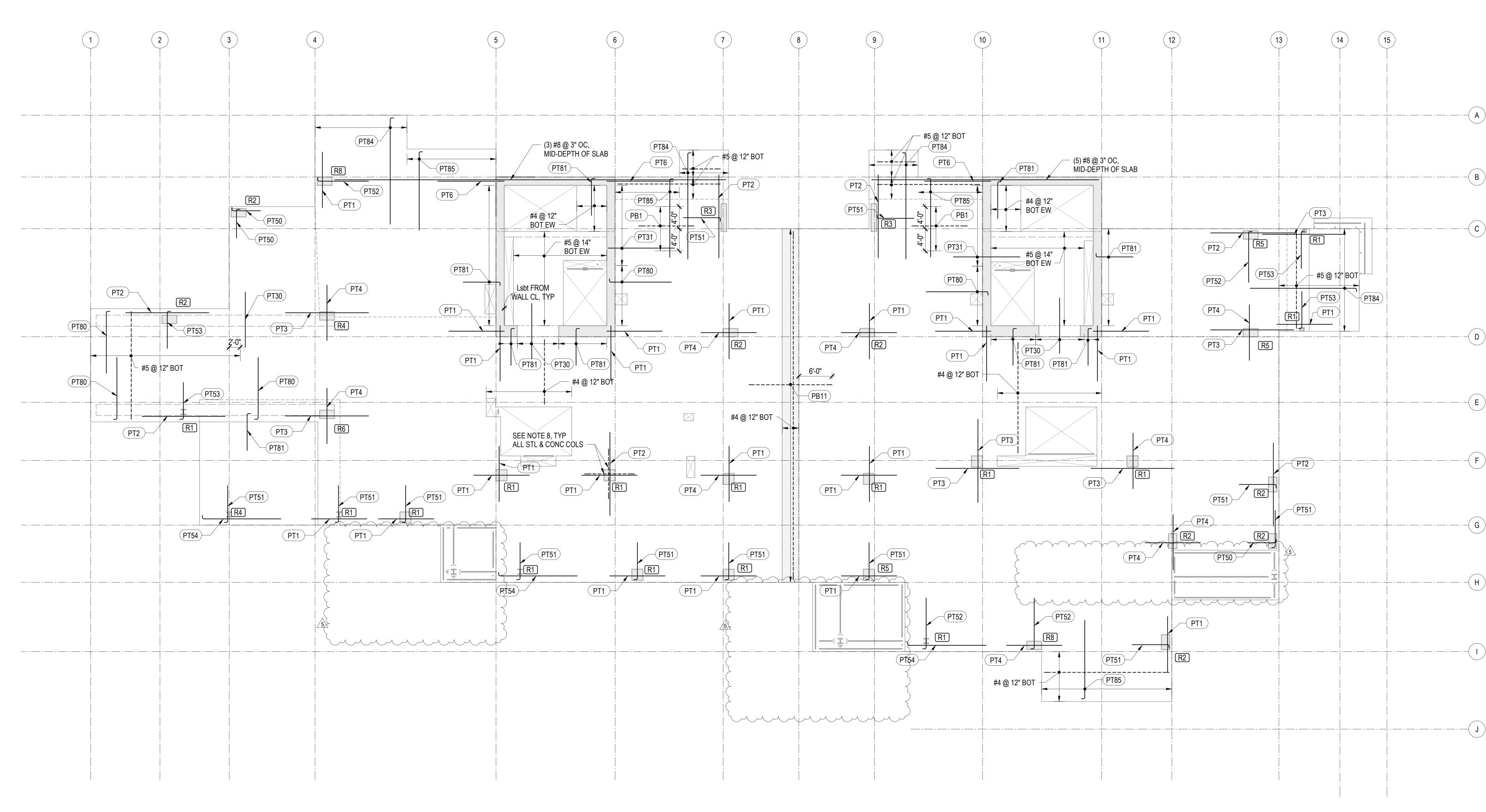
- DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES S0.XX S1.XX LOAD DIAGRAMS
- S2.XX PLANS S3.XX
- ELEVATIONS S4.XX
- TYPICAL DETAILS AND SCHEDULES CONCRETE SECTIONS AND DETAILS S5.XX
- STEEL SECTIONS AND DETAILS S6.XX

<u>NOTES</u>

- 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.





1 TOWER A - LEVEL 4 - REINFORCEMENT PLAN

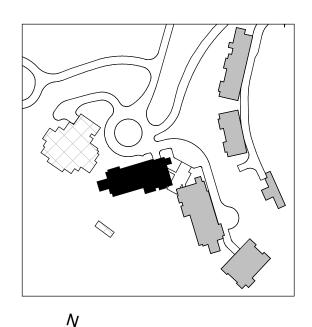
REINFORCING NOTES:

- 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.

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"	

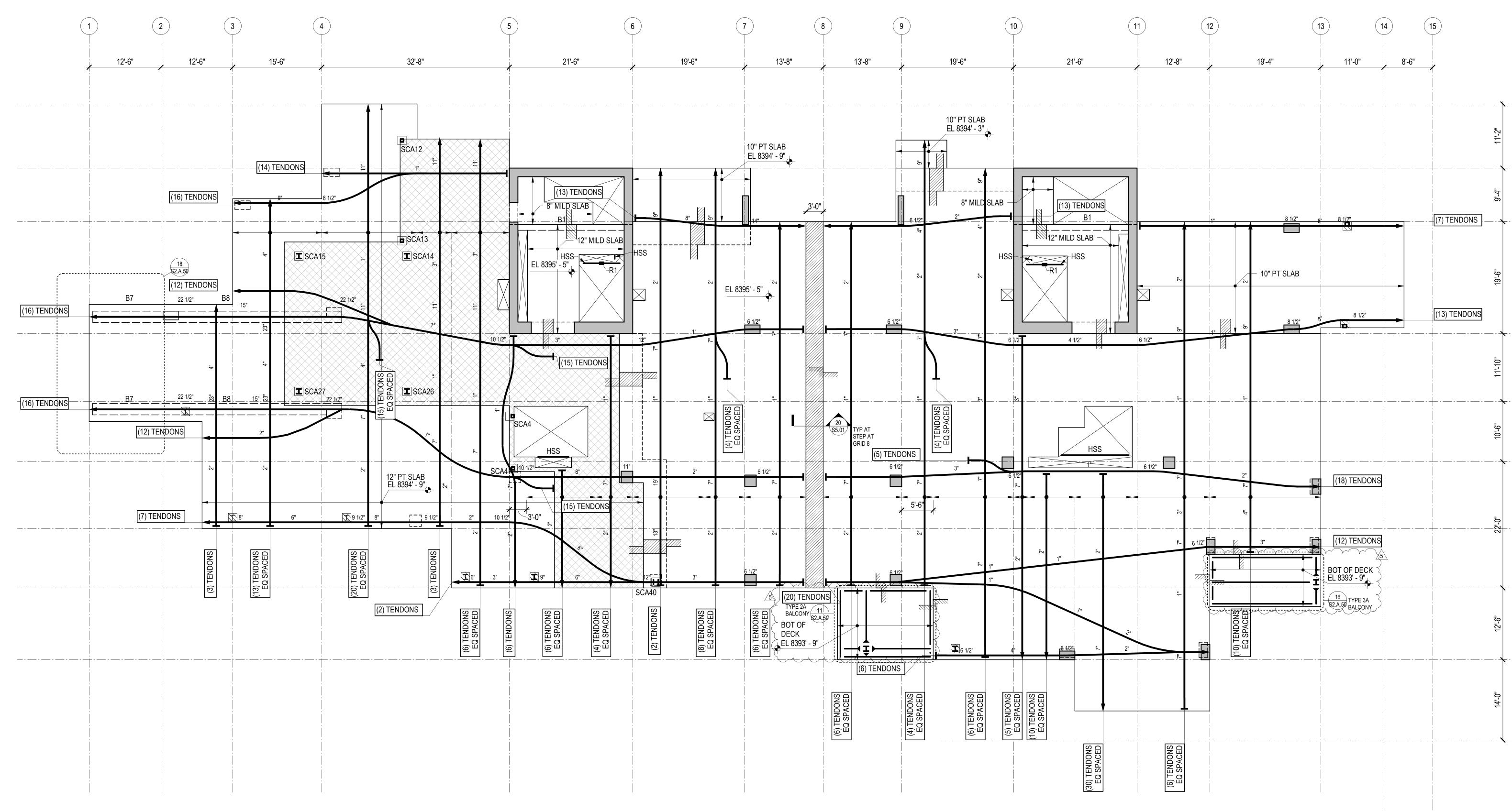
PT TOP REINFORCEMENT SCHEDULE			
MARK	REINFORCING	REMARKS	
PT50	(3) #5x5'-2"	HOOK AT END	
PT51	(6) #5x6'-8"	HOOK AT END	
PT52	(10) #5x9'-2"	HOOK AT END	
PT53	(8) #5x6'-8"	HOOK AT END	
PT54	(6) #5x14'-2"	HOOK AT END	
PT55	(8) #5x14'-2"	HOOK AT END	
PT56	(16) #5x11'-2"	HOOK AT END	
PT57	(16) #5x14'-2"	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



A





1 TOWER A - LEVEL 5 FRAMING PLAN

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

<u>NOTES</u>

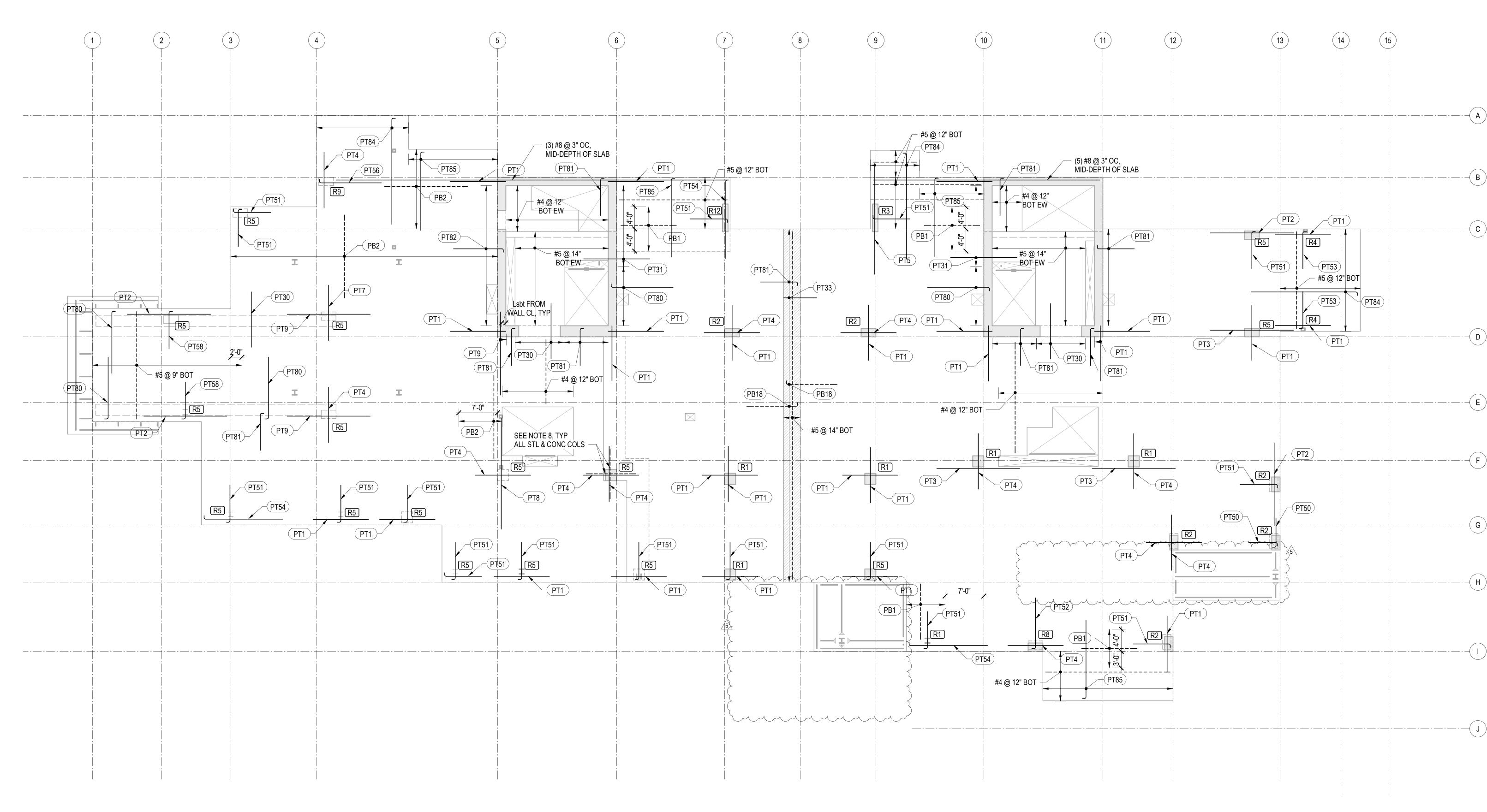
- 1. REFERENCE FLOOR ELEVATION IS 8395' 0". TOP OF STRUCTURAL CONCRETE SLAB IS 8394' - 11", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
- 2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED 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.





1 TOWER A - LEVEL 5 - REINFORCEMENT PLAN

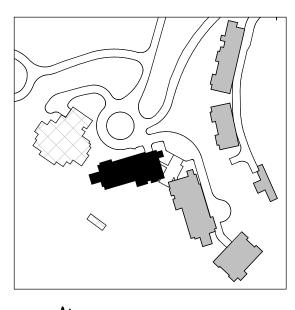
REINFORCING NOTES:

- 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.

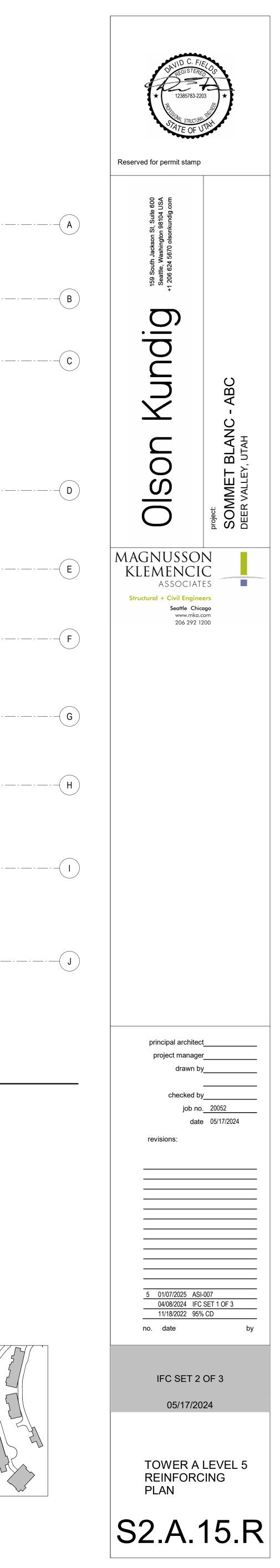
MARK	REINFORCING	REMARKS
PT1	(6) #5x10'-0"	
PT2	(6) #5x15'-0"	
PT3	(8) #5x15'-0"	
PT4	(12) #5x10'-0"	
PT5	(10) #5x20'-0"	
PT6	(18) #6x12'-0" @ 5"	STAGGER 3'-0"
PT7	(14) #5x10'-0"	
PT8	(16) #6x20'-0"	
PT9	(14) #6x15'-0"	
PT10	(12) #5x20'-0"	
PT11	(12) #5x15'-0"	
PT30	#5x10'-0"@ 15"	
PT31	#5x12'-0"@ 12"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

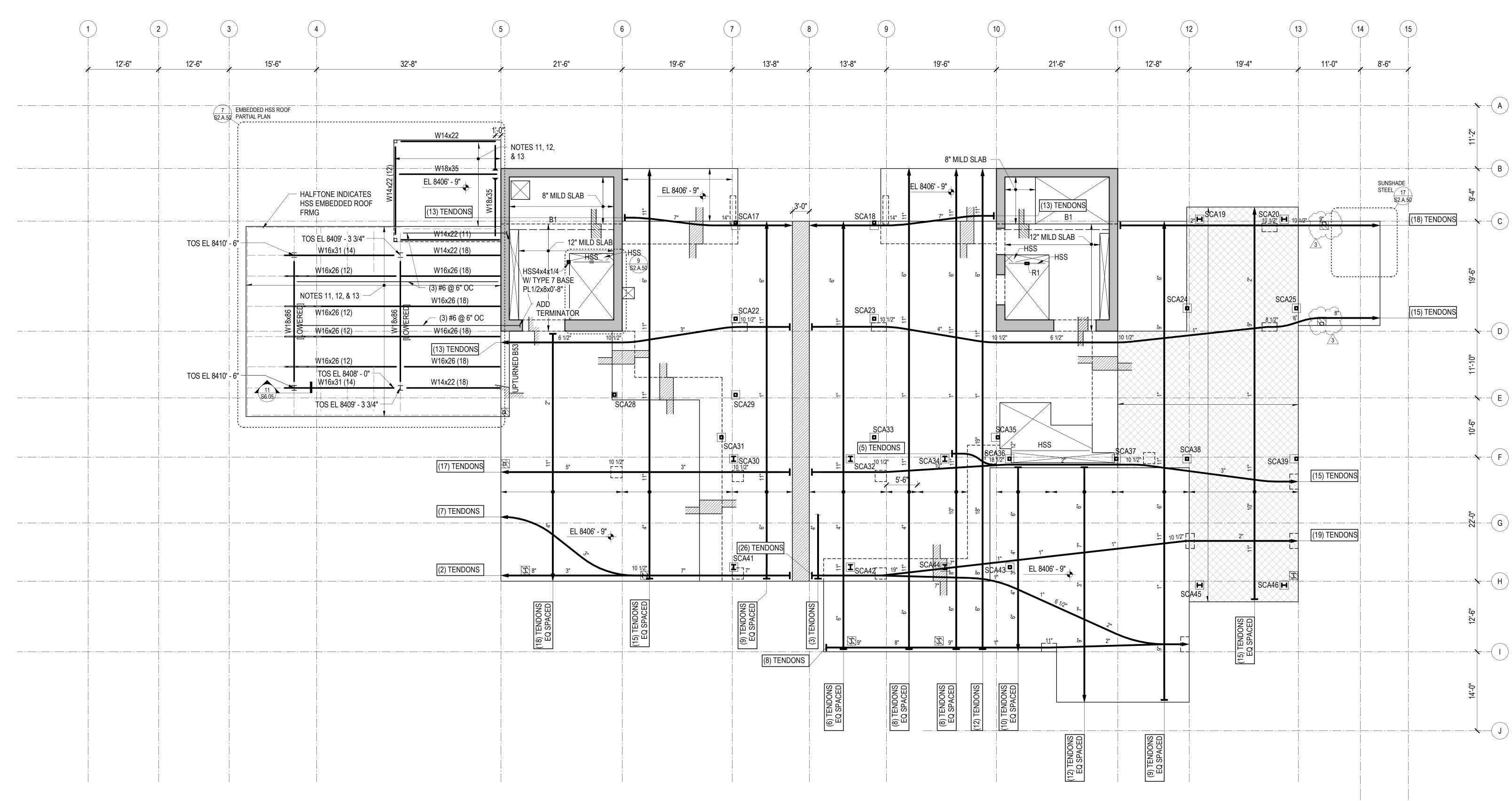
PT TOP REINFORCEMENT SCHEDULE			
MARK	REINFORCING	REMARKS	
PT50	(3) #5x5'-2"	HOOK AT END	
PT51	(6) #5x6'-8"	HOOK AT END	
PT52	(10) #5x9'-2"	HOOK AT END	
PT53	(8) #5x6'-8"	HOOK AT END	
PT54	(6) #5x14'-2"	HOOK AT END	
PT55	(8) #5x14'-2"	HOOK AT END	
PT56	(16) #5x11'-2"	HOOK AT END	
PT57	(16) #5x14'-2"	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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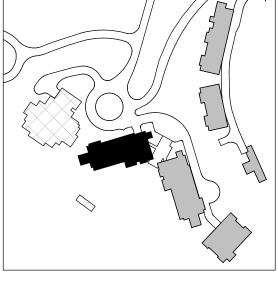
1 TOWER A - LEVEL 6 FRAMING PLAN

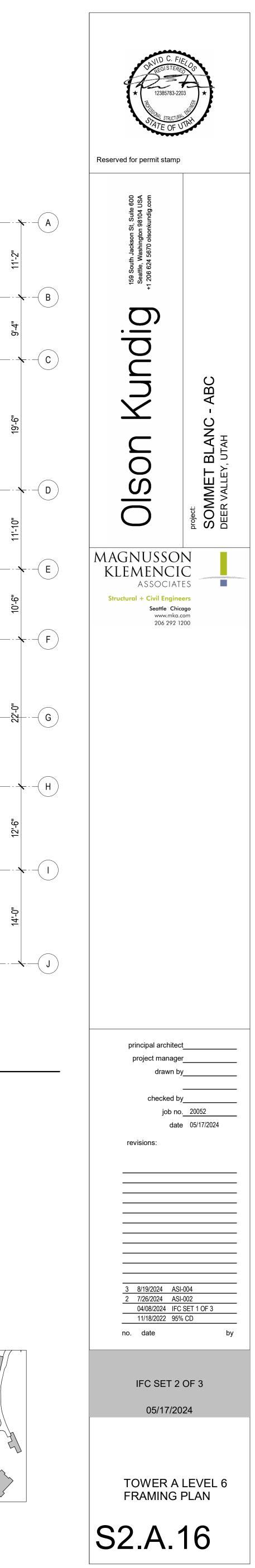
- S0.XX DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES S1.XX LOAD DIAGRAMS
- S2.XX PLANS S3.XX
- ELEVATIONS TYPICAL DETAILS AND SCHEDULES S4.XX
- CONCRETE SECTIONS AND DETAILS S5.XX
- STEEL SECTIONS AND DETAILS S6.XX

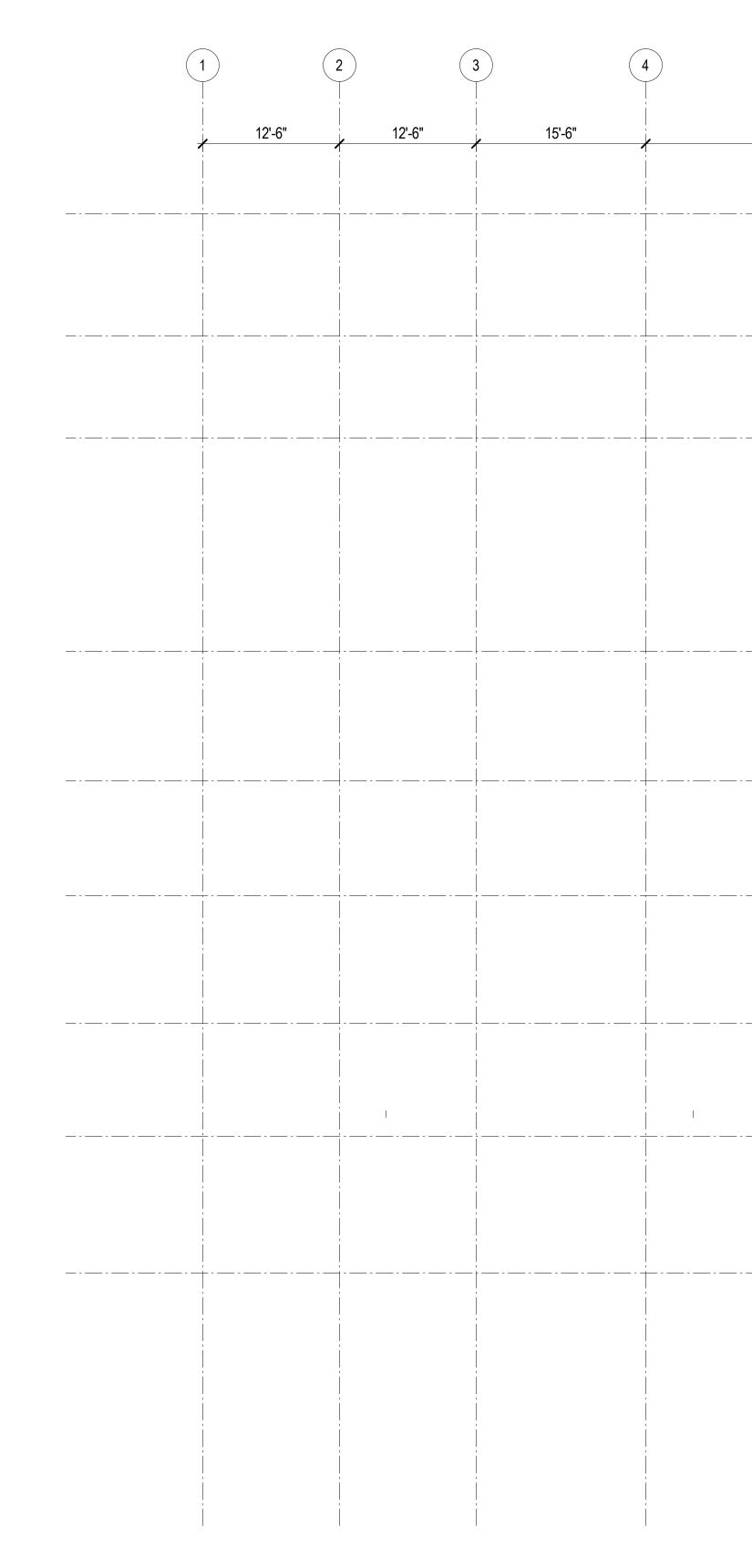
<u>NOTES</u>

- 1. REFERENCE FLOOR ELEVATION IS 8407' 6". TOP OF STRUCTURAL CO IS 8407' - 5", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAV DRAINAGE SLOPES NOT SHOWN.
- 2. STRUCTURAL SLAB IS A 12-INCH THICK UNBONDED POST-TENSIONED UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB ADDITIONAL INFORMATION.
- 3. THE MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS DRAWINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER D DESIGN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
- 4. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLU BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THA SHEAR WALLS.
- 5. CONCRETE PLACED IN THE SLAB/COLUMN INTERSECTION SHALL HAV STRENGTH AS SHOWN IN THE GENERAL NOTES, BUT NO LESS THAN T THE COLUMNS DIVIDED BY 1.4.
- 6. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTR EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.

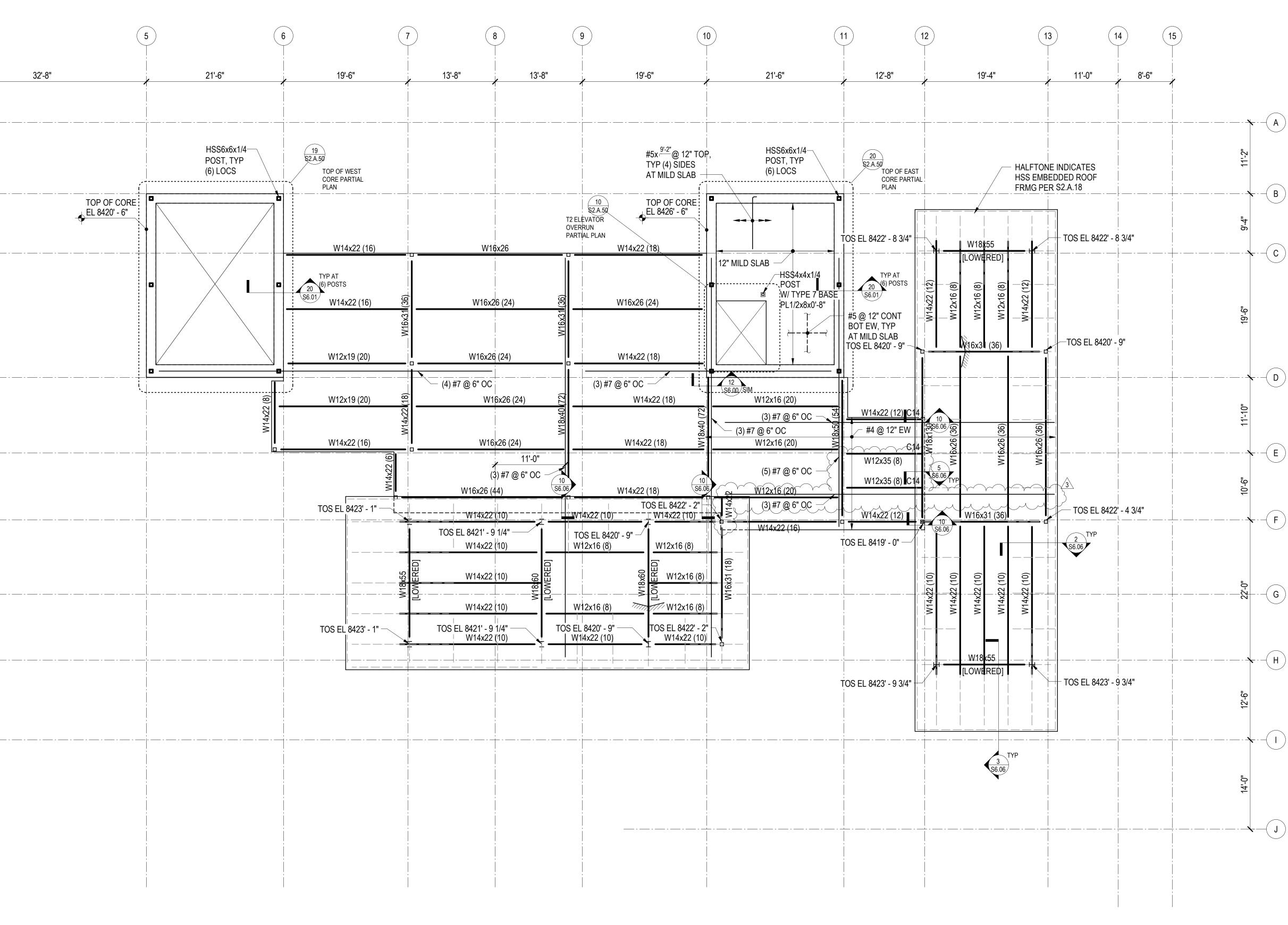
S	 SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY. 	
	 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. 	
ONCRETE SLAB AWINGS FOR	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.	
D TWO-WAY SLAB DETAILS FOR	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.	
S SHOWN ON THE DEFERRED	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	
JDING COUPLING AT SPECIFIED FOR THE	REINFORCING.	
	12. REFERENCE TOP OF STEEL IS AT THE BOTTOM OF SLAB ON STEEL DECK UNLESS NOTED	4
VE MINIMUM CONCRETE THAT SPECIFIED FOR	13. STEEL SLOPES UNIFORMLY BETWEEN GIVEN TOP OF STEEL ELEVATIONS. WHERE BEAMS OR BEAMS AND COLUMNS INTERSECT, MATCH TOP OF STEEL UNLESS NOTED OTHERWISE.	
RICAL, PLUMBING, AND	14. "SC#" INDICATES STEEL COLUMN MARK FOR COLUMNS NOT LOCATED BY GRID. SEE TYPICAL STEEL COLUMN DETAILS AND SCHEDULE FOR ADDITIONAL INFORMATION.	







1 TOWER A - ROOF FRAMING PLAN



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

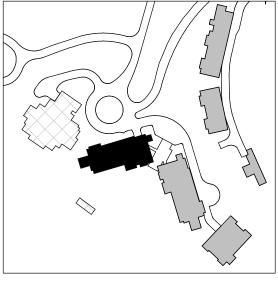
<u>NOTES</u>

- 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.

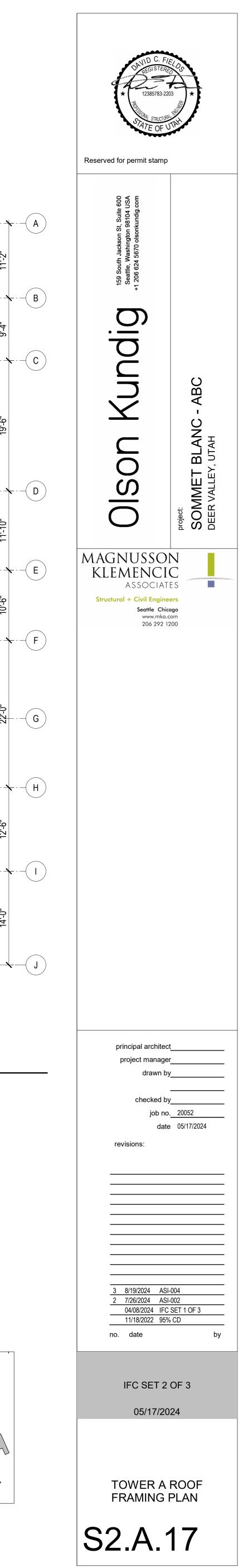
- 4. STEEL SLOPES UNIFORMLY BETWEEN GIVEN TOP OF STEEL ELEVATIONS. WHERE BEAMS OR BEAMS AND COLUMNS INTERSECT, MATCH TOP OF STEEL UNLESS NOTED OTHERWISE.
- 5. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING SLABS AND WALLS.

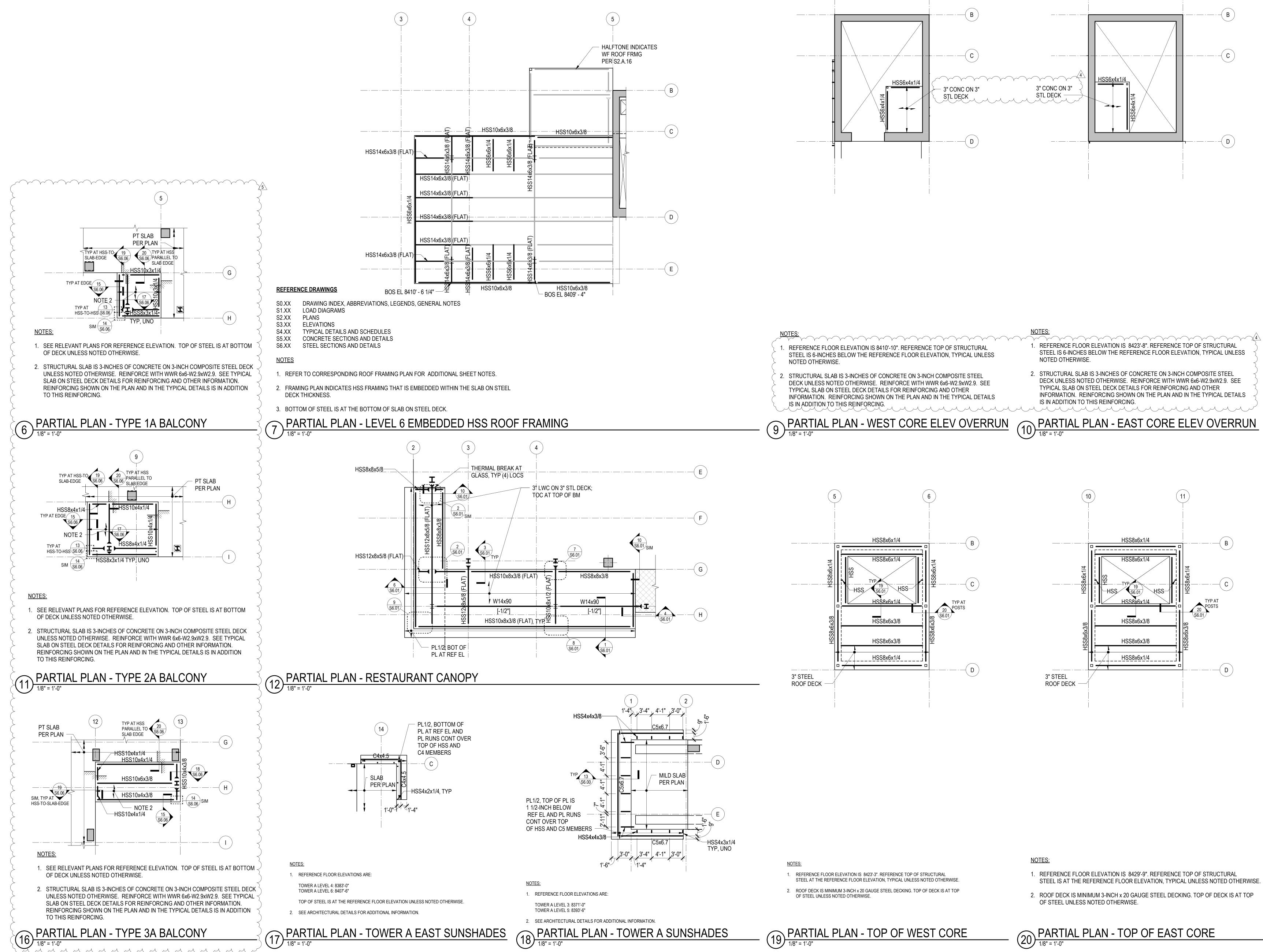
6. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE 'TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE,' 'TYPICAL ROOF DECK OPENINGS,' AND 'TYPICAL COMPOSITE DECK OPENINGS' DETAILS FOR OPENING PLACEMENT CRITERIA AND REINFORCING 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.

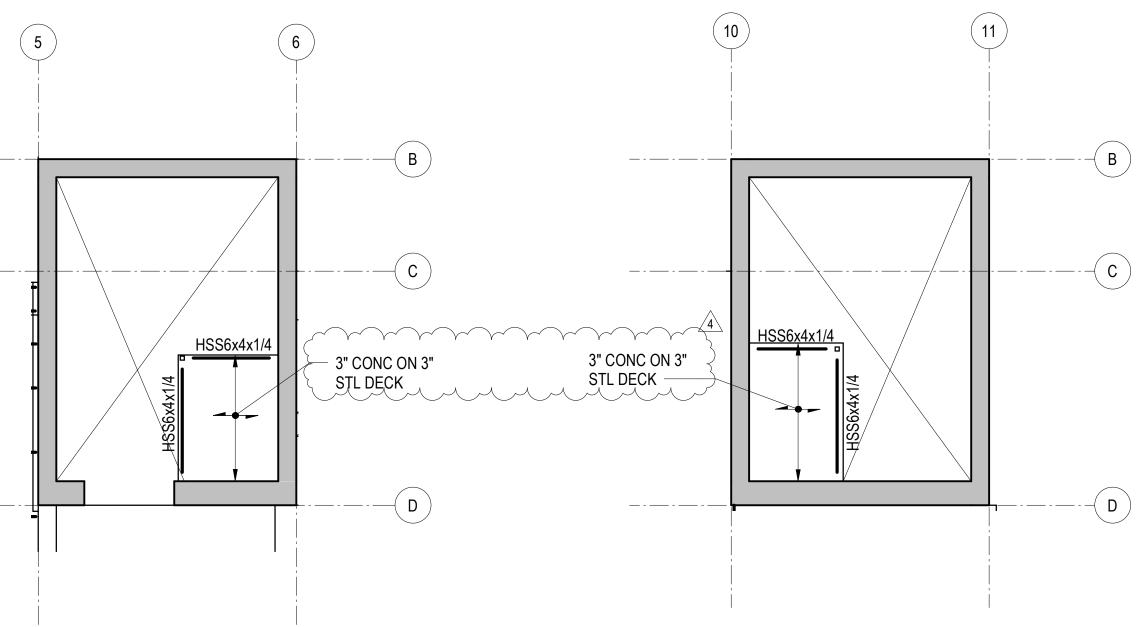


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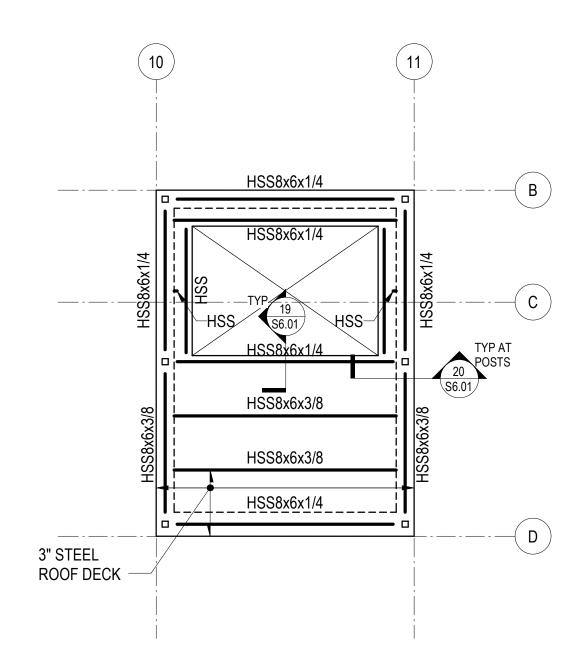


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NOTED OTHERWISE. 2. STRUCTURAL SLAB IS 3-INCHES OF CONCRETE ON 3-INCH COMPOSITE STEEL DECK UNLESS NOTED OTHERWISE. REINFORCE WITH WWR 6x6-W2.9xW2.9. SEE TYPICAL SLAB ON STEEL DECK DETAILS FOR REINFORCING AND OTHER INFORMATION. REINFORCING SHOWN ON THE PLAN AND IN THE TYPICAL DETAILS IS IN ADDITION TO THIS REINFORCING.

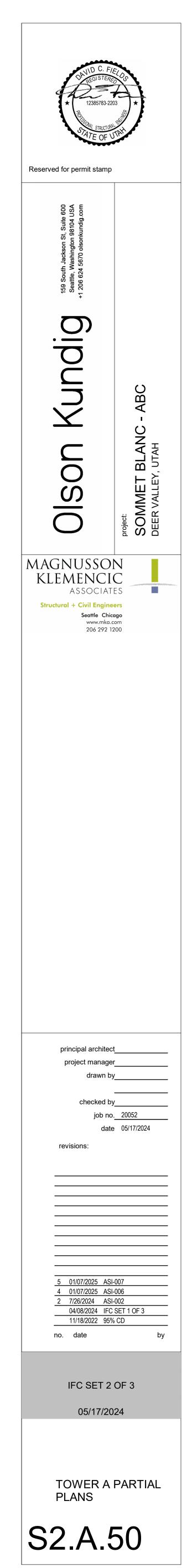
1. REFERENCE FLOOR ELEVATION IS 8423'-8". REFERENCE TOP OF STRUCTURAL

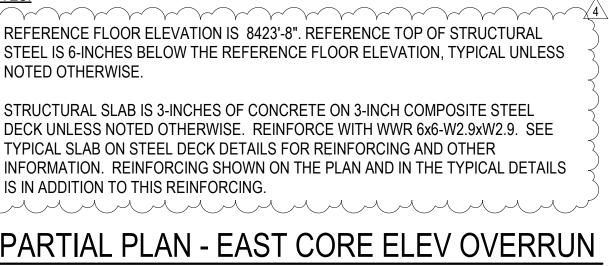


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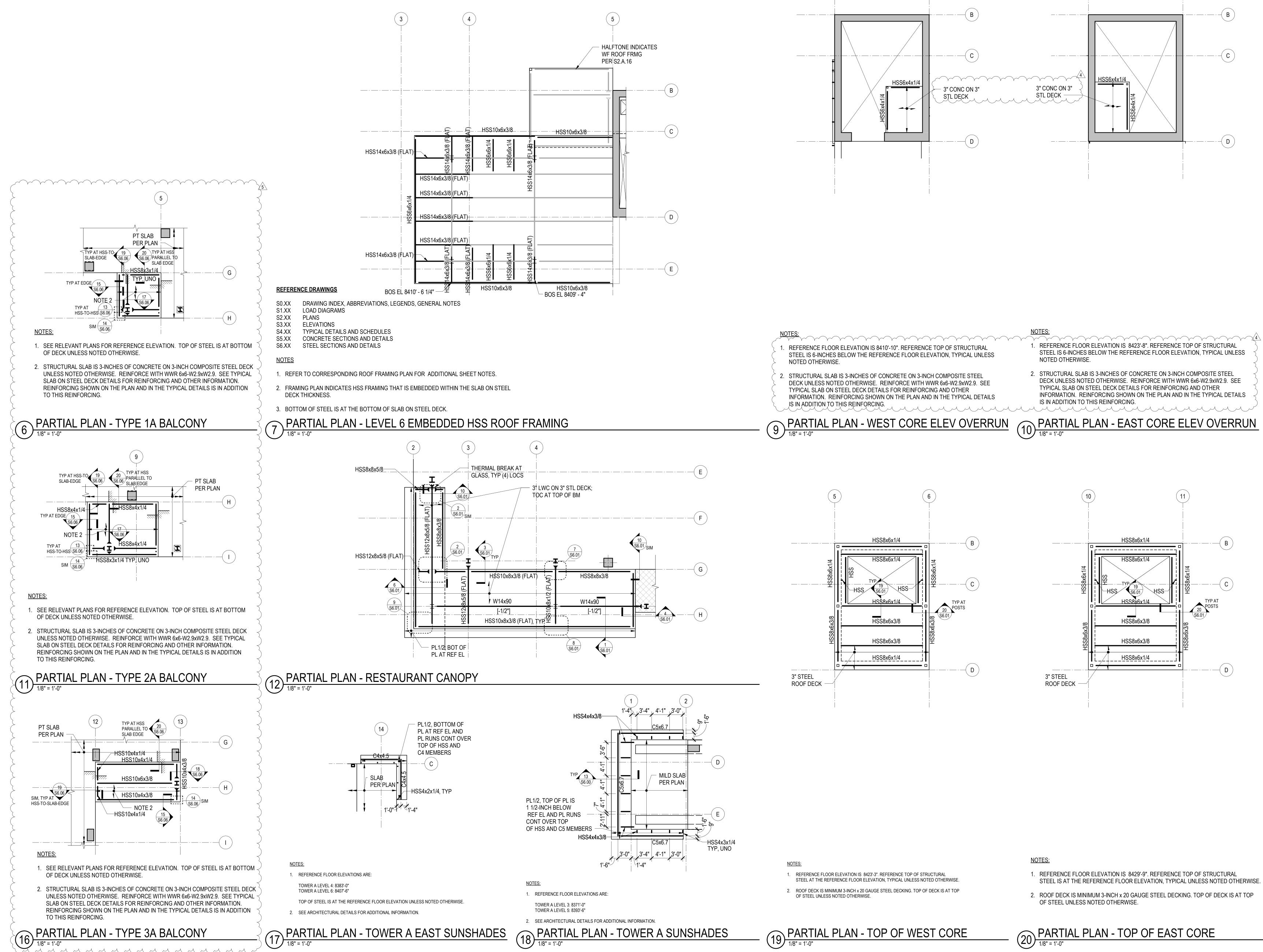
- 1. REFERENCE FLOOR ELEVATION IS 8429'-9". REFERENCE TOP OF STRUCTURAL STEEL IS AT THE REFERENCE FLOOR ELEVATION. TYPICAL UNLESS NOTED OTHERWISE.
- 2. ROOF DECK IS MINIMUM 3-INCH x 20 GAUGE STEEL DECKING. TOP OF DECK IS AT TOP OF STEEL UNLESS NOTED OTHERWISE.



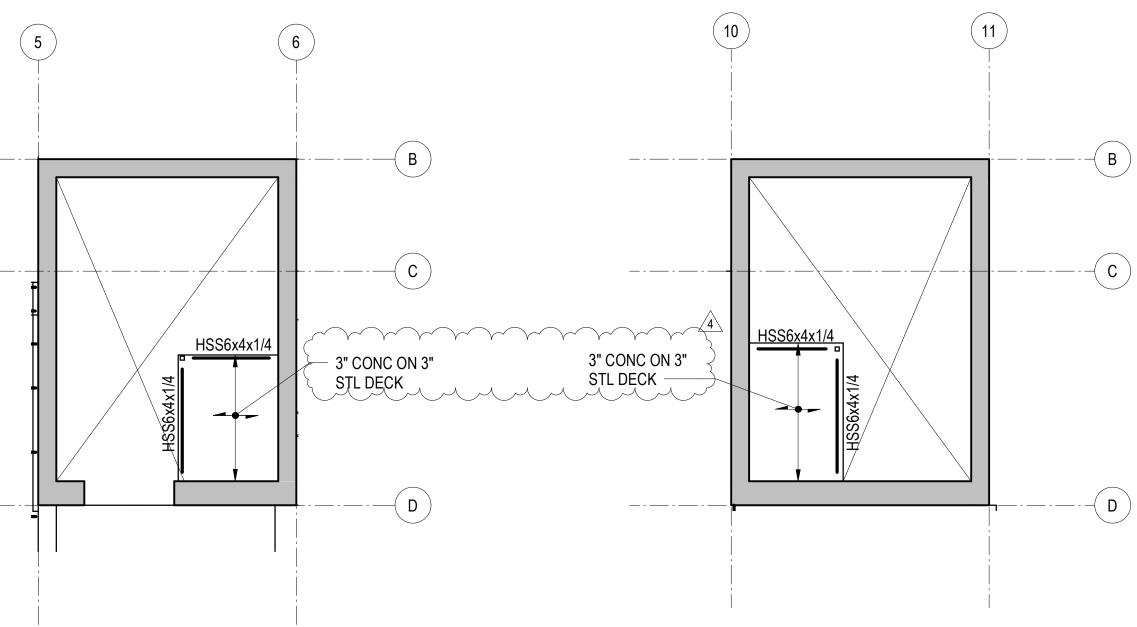






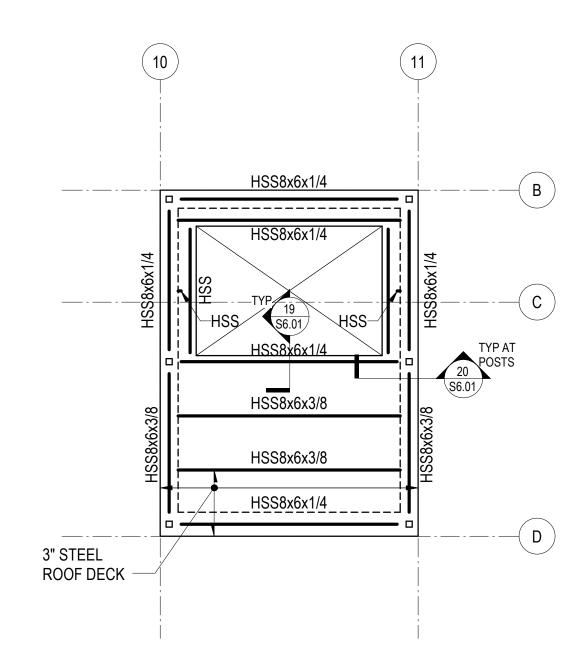


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NOTED OTHERWISE. 2. STRUCTURAL SLAB IS 3-INCHES OF CONCRETE ON 3-INCH COMPOSITE STEEL DECK UNLESS NOTED OTHERWISE. REINFORCE WITH WWR 6x6-W2.9xW2.9. SEE TYPICAL SLAB ON STEEL DECK DETAILS FOR REINFORCING AND OTHER INFORMATION. REINFORCING SHOWN ON THE PLAN AND IN THE TYPICAL DETAILS IS IN ADDITION TO THIS REINFORCING.

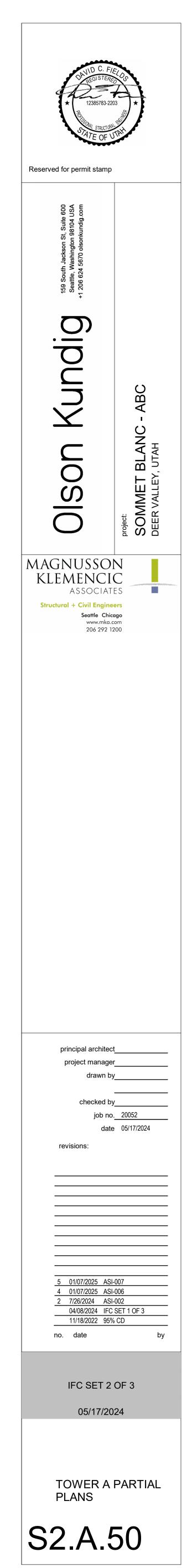
1. REFERENCE FLOOR ELEVATION IS 8423'-8". REFERENCE TOP OF STRUCTURAL

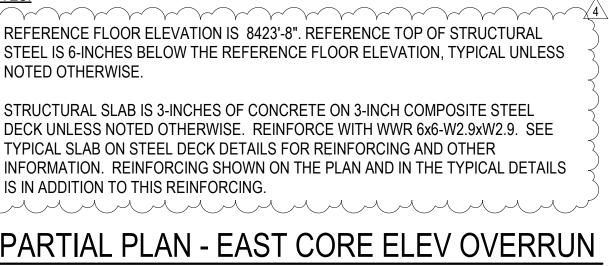


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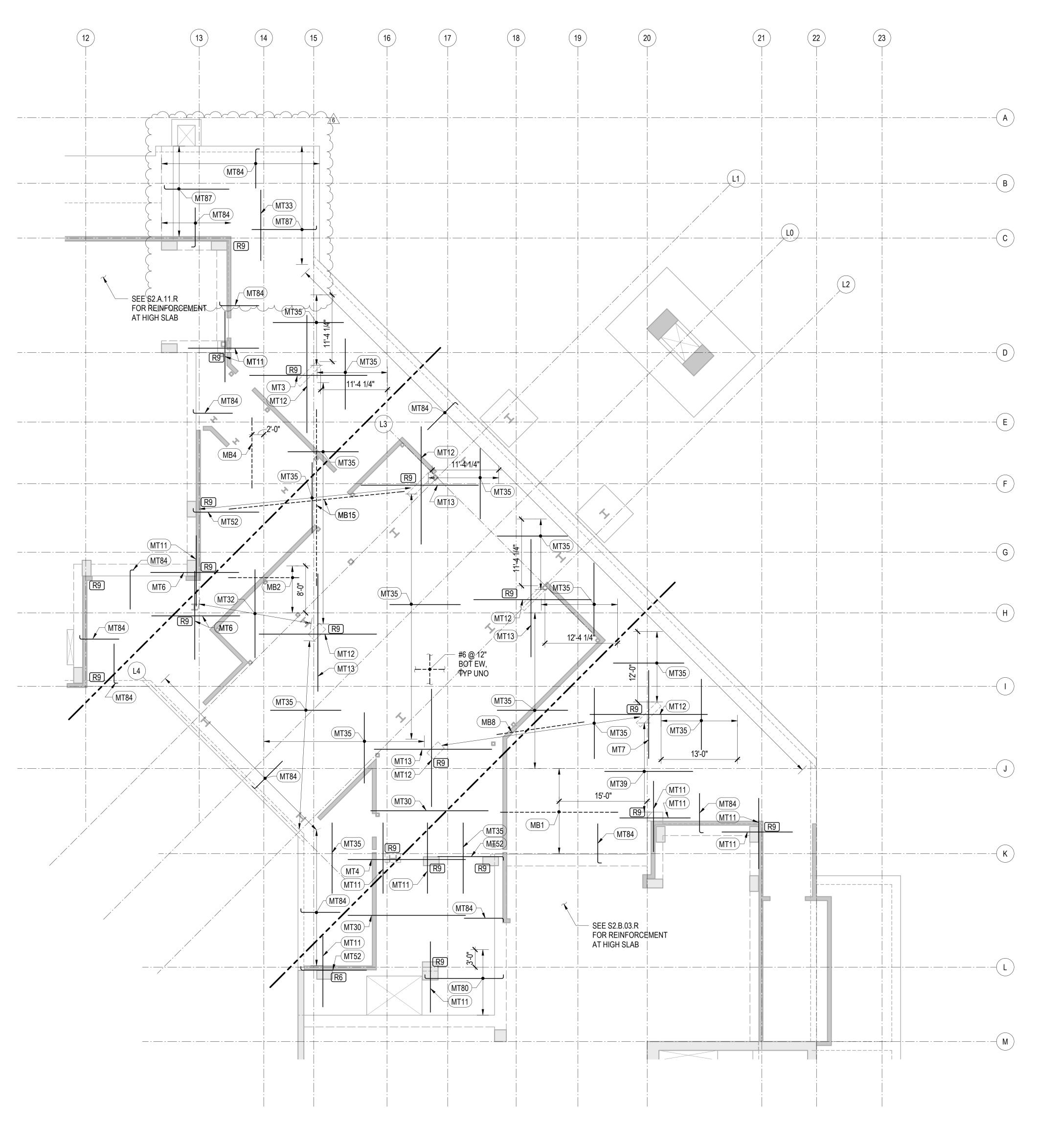
- 1. REFERENCE FLOOR ELEVATION IS 8429'-9". REFERENCE TOP OF STRUCTURAL STEEL IS AT THE REFERENCE FLOOR ELEVATION. TYPICAL UNLESS NOTED OTHERWISE.
- 2. ROOF DECK IS MINIMUM 3-INCH x 20 GAUGE STEEL DECKING. TOP OF DECK IS AT TOP OF STEEL UNLESS NOTED OTHERWISE.











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.

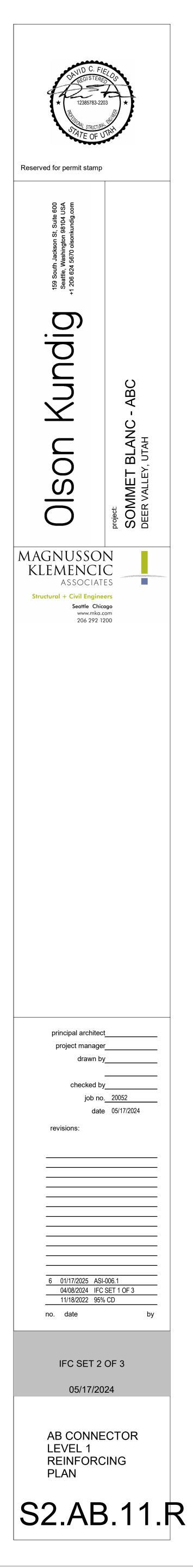
1 TOWER A & B - LEVEL 1 LOBBY FRAMING PLAN

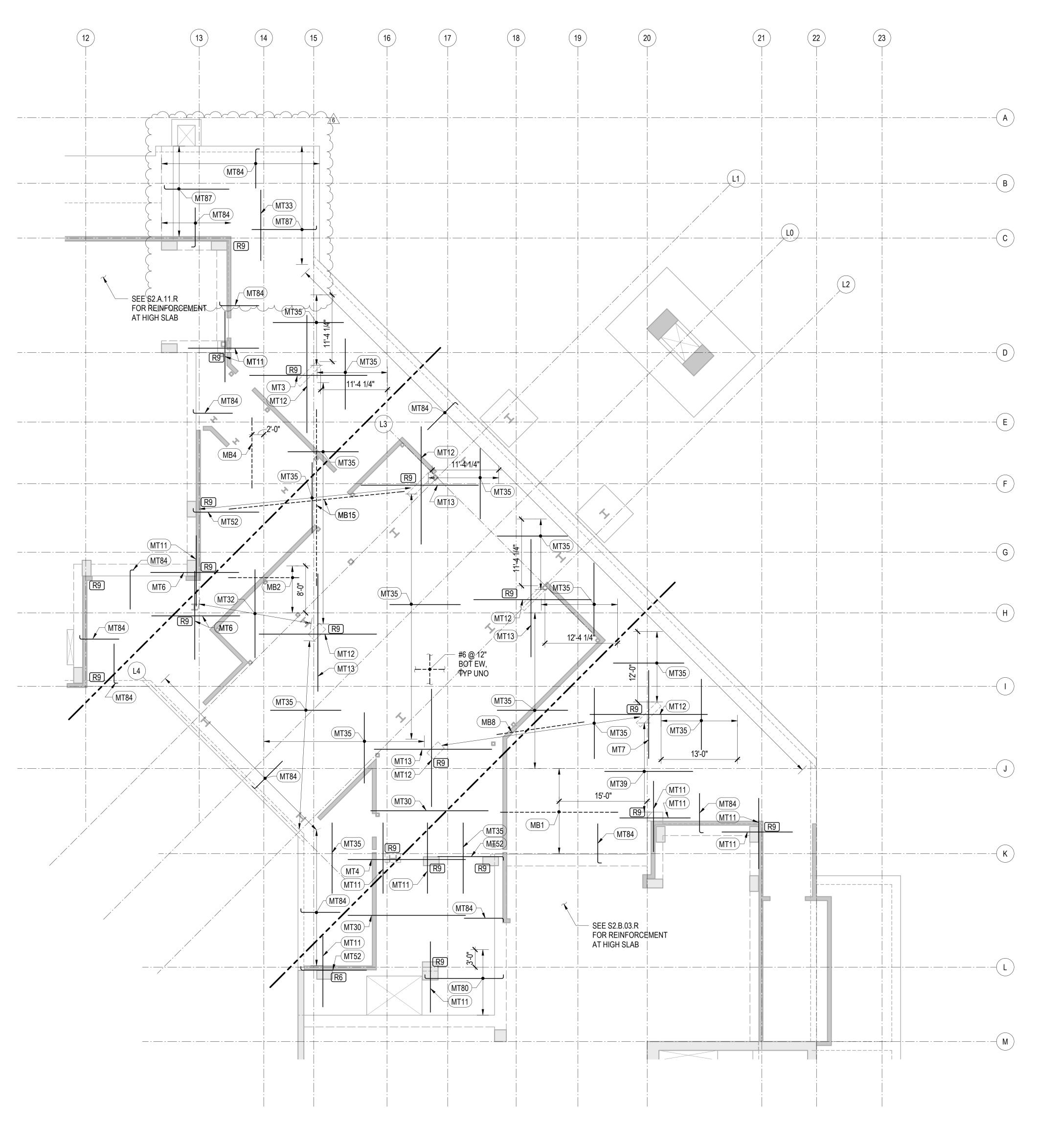
MILC	D TOP REINFORCEMEN	NT SCHEDULE		MILC	TOP REINFORCEME	NT SCHEDULE
MARK	REINFORCING	REMARKS		MARK	REINFORCING	REMARKS
MT1	(13) #6x20'-0" @ 10"	STAGGER 6'-0"		MT18	(16) #8x20'-0" @ 8"	STAGGER 5'-0"
MT2	(13) #7x20'-0" @ 10"	STAGGER 5'-0"		MT30	#5x20'-0" @ 12"	STAGGER 3'-0"
MT3	(11) #7x20'-0" @ 12"	STAGGER 4'-0"		MT31	#5x20'-0" @ 10"	STAGGER 2'-0"
MT4	(11) #6x20'-0" @ 12"	STAGGER 4'-0"		MT32	#5x15'-0" @ 12"	STAGGER 2'-0"
MT5	(13) #5x15'-0" @ 10"	STAGGER 4'-0"		MT33	#5x12'-0" @ 12"	STAGGER 2'-0"
MT6	(11) #6x15'-0" @ 12"	STAGGER 4'-0"		MT34	#5x20'-0" @ 12"	STAGGER 4'-0"
MT7	(15) #7x15'-0" @ 9"	STAGGER 3'-0"		MT35	#5x12'-0" @ 12"	STAGGER 1'-0"
MT8	(6) #5x15'-0" @ 12"	STAGGER 3'-0"		MT36	#5x7'-6" @ 12"	STAGGER 0'-0"
MT9	(6) #7x15'-0" @ 12"	STAGGER 3'-0"		MT37	#4x12'-0" @ 12"	STAGGER 1'-0"
MT11	(11) #5x12'-0" @ 12"	STAGGER 2'-0"		MT38	#4x15'-0" @ 12"	STAGGER 1'-0"
MT12	(16) #8x20'-0" @ 8"	STAGGER 5'-0"	1	MT39	#5x15'-0" @ 8"	STAGGER 2'-0"
MT13	(21) #8x20'-0" @ 6"	STAGGER 5'-0"		MT40	#6x20'-0" @ 12"	STAGGER 4'-0"
MT14	(21) #7x20'-0" @ 6"	STAGGER 5'-0"		MT42	#6x15'-0" @ 12"	STAGGER 2'-0"
MT15	(11) #5x15'-0" @ 12"	STAGGER 3'-0"		MT43	#7x15'-0" @ 6"	STAGGER 3'-0"
MT16	(11) #4x12'-0" @ 12"	STAGGER 2'-0"		MT50	(6) #5x24'-2" @ 12"	HOOK AT END
MT17	(11) #4x15'-0" @ 12"	STAGGER 3'-0"	1			

MILD TOP REINFORCEMENT SCHEDULE			
MARK	REINFORCING	REMARKS	
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	
MT65	(11) #4x6'-10" @ 12"	HOOK AT END	
MT66	(16) #7x18'-10" @ 8"	HOOK AT END	

MILD TOP REINFORCEMENT SCHEDULE			
MARK	REINFORCING	REMARKS	
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	





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.

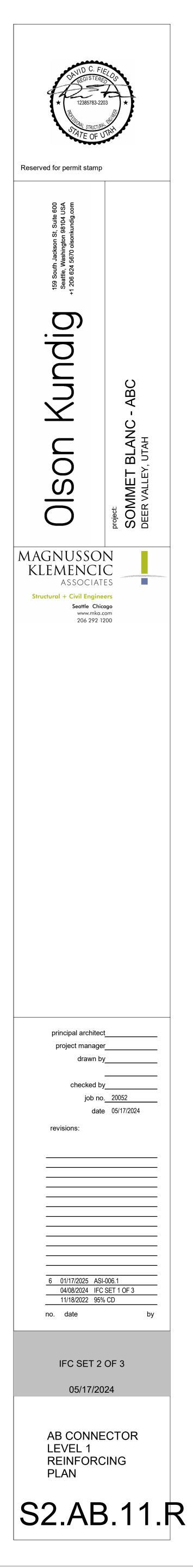
1 TOWER A & B - LEVEL 1 LOBBY FRAMING PLAN

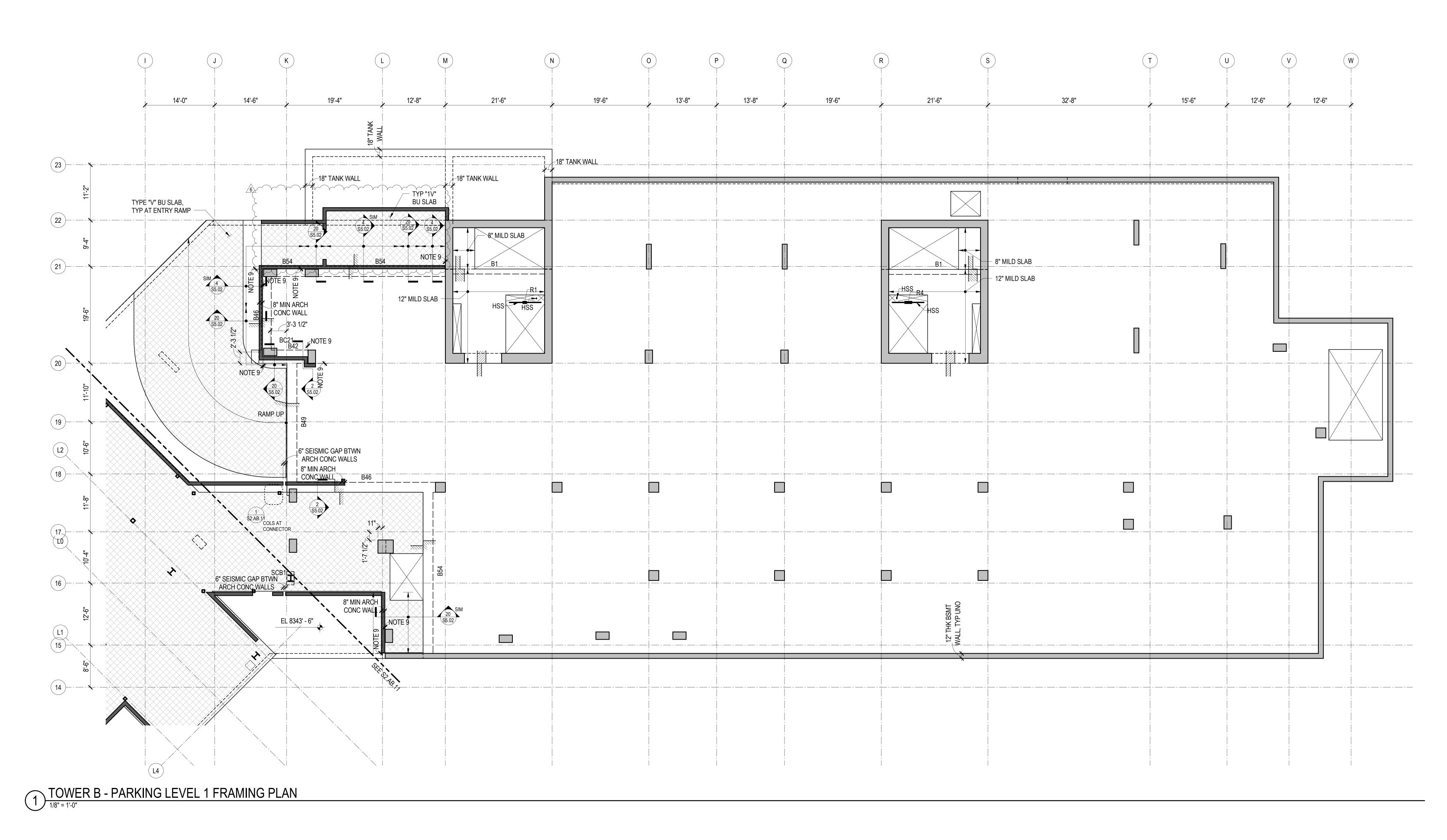
MILC	D TOP REINFORCEMEN	NT SCHEDULE		MILC	TOP REINFORCEME	NT SCHEDULE
MARK	REINFORCING	REMARKS		MARK	REINFORCING	REMARKS
MT1	(13) #6x20'-0" @ 10"	STAGGER 6'-0"		MT18	(16) #8x20'-0" @ 8"	STAGGER 5'-0"
MT2	(13) #7x20'-0" @ 10"	STAGGER 5'-0"		MT30	#5x20'-0" @ 12"	STAGGER 3'-0"
MT3	(11) #7x20'-0" @ 12"	STAGGER 4'-0"		MT31	#5x20'-0" @ 10"	STAGGER 2'-0"
MT4	(11) #6x20'-0" @ 12"	STAGGER 4'-0"		MT32	#5x15'-0" @ 12"	STAGGER 2'-0"
MT5	(13) #5x15'-0" @ 10"	STAGGER 4'-0"		MT33	#5x12'-0" @ 12"	STAGGER 2'-0"
MT6	(11) #6x15'-0" @ 12"	STAGGER 4'-0"		MT34	#5x20'-0" @ 12"	STAGGER 4'-0"
MT7	(15) #7x15'-0" @ 9"	STAGGER 3'-0"		MT35	#5x12'-0" @ 12"	STAGGER 1'-0"
MT8	(6) #5x15'-0" @ 12"	STAGGER 3'-0"		MT36	#5x7'-6" @ 12"	STAGGER 0'-0"
MT9	(6) #7x15'-0" @ 12"	STAGGER 3'-0"		MT37	#4x12'-0" @ 12"	STAGGER 1'-0"
MT11	(11) #5x12'-0" @ 12"	STAGGER 2'-0"		MT38	#4x15'-0" @ 12"	STAGGER 1'-0"
MT12	(16) #8x20'-0" @ 8"	STAGGER 5'-0"	1	MT39	#5x15'-0" @ 8"	STAGGER 2'-0"
MT13	(21) #8x20'-0" @ 6"	STAGGER 5'-0"		MT40	#6x20'-0" @ 12"	STAGGER 4'-0"
MT14	(21) #7x20'-0" @ 6"	STAGGER 5'-0"		MT42	#6x15'-0" @ 12"	STAGGER 2'-0"
MT15	(11) #5x15'-0" @ 12"	STAGGER 3'-0"		MT43	#7x15'-0" @ 6"	STAGGER 3'-0"
MT16	(11) #4x12'-0" @ 12"	STAGGER 2'-0"		MT50	(6) #5x24'-2" @ 12"	HOOK AT END
MT17	(11) #4x15'-0" @ 12"	STAGGER 3'-0"	1			

MILD TOP REINFORCEMENT SCHEDULE			
MARK	REINFORCING	REMARKS	
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	
MT65	(11) #4x6'-10" @ 12"	HOOK AT END	
MT66	(16) #7x18'-10" @ 8"	HOOK AT END	

MILD TOP REINFORCEMENT SCHEDULE			
MARK	REINFORCING	REMARKS	
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	





- 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

<u>NOTES</u>

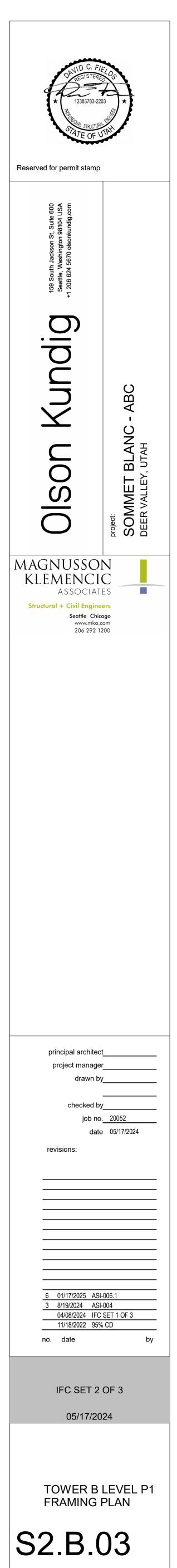
- 1. REFERENCE FLOOR ELEVATION IS 8345' 0". TOP OF CONCRETE SLAB IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
- 2. THE STRUCTURAL SLAB IS A 14-INCH THICK MILD TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE THE TYPICAL MILD SLAB DETAILS.
- 3. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING 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.

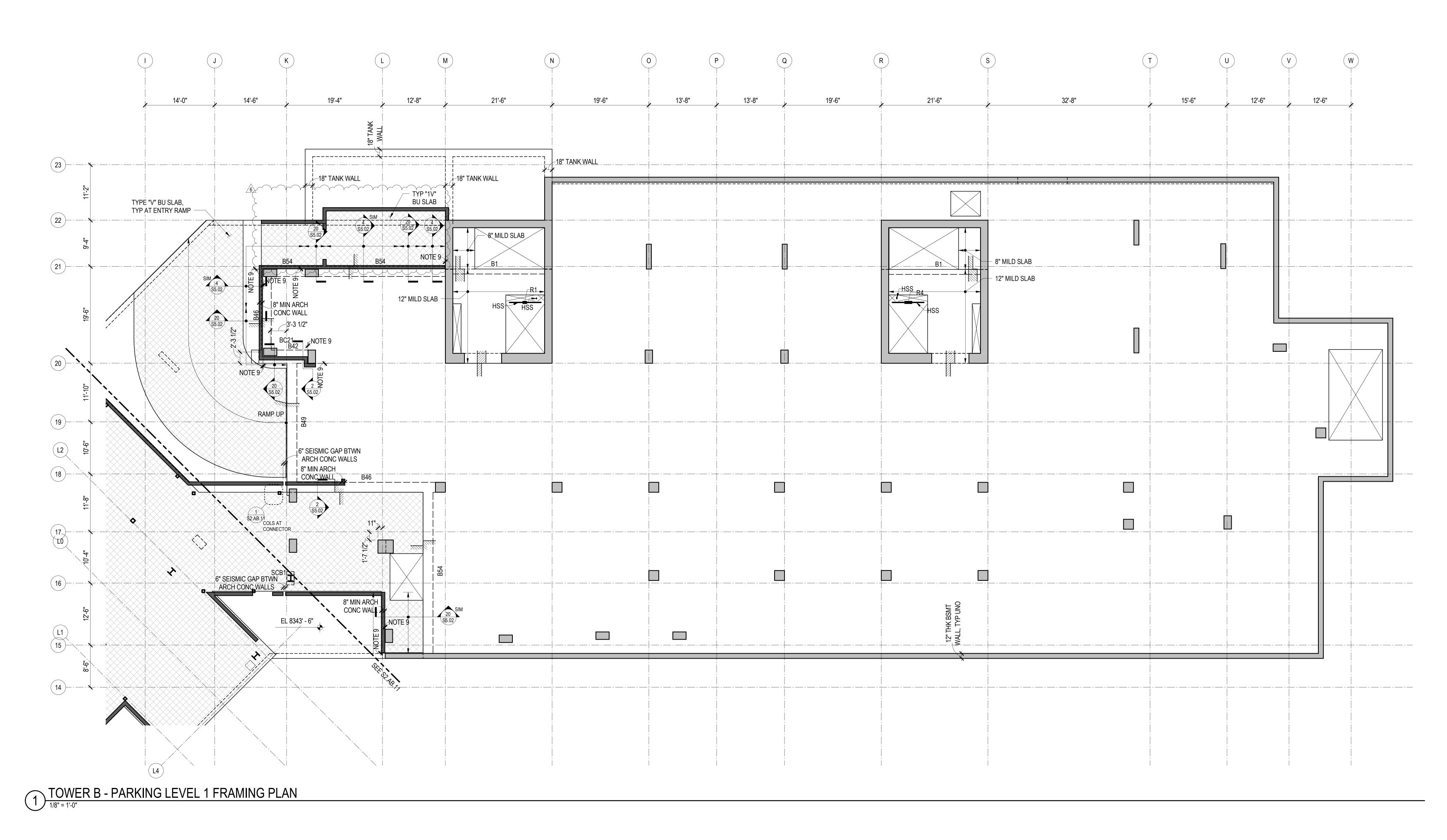
7. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.

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.

BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE 9. WHERE NOTED ARCHITECTURAL CONCRETE WALLS ARE TO MAINTAIN 1-INCH MINIMUM GAP TO PRIMARY STRUCTURAL COLUMNS / WALLS / SLAB EDGE.

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- 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

<u>NOTES</u>

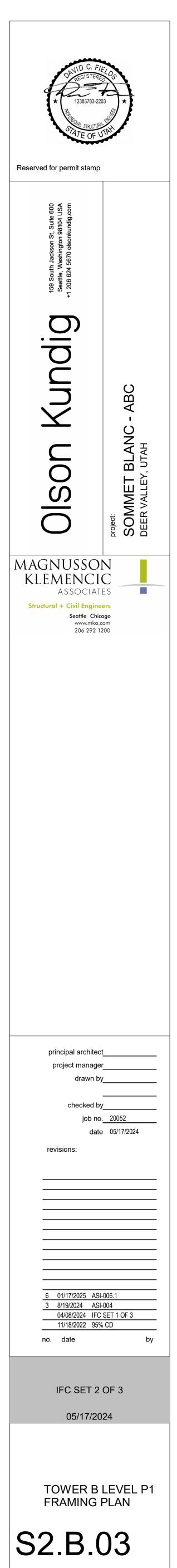
- 1. REFERENCE FLOOR ELEVATION IS 8345' 0". TOP OF CONCRETE SLAB IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
- 2. THE STRUCTURAL SLAB IS A 14-INCH THICK MILD TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE THE TYPICAL MILD SLAB DETAILS.
- 3. CONCRETE PLACED IN THE SLAB/SHEAR WALL INTERSECTION, INCLUDING COUPLING 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.

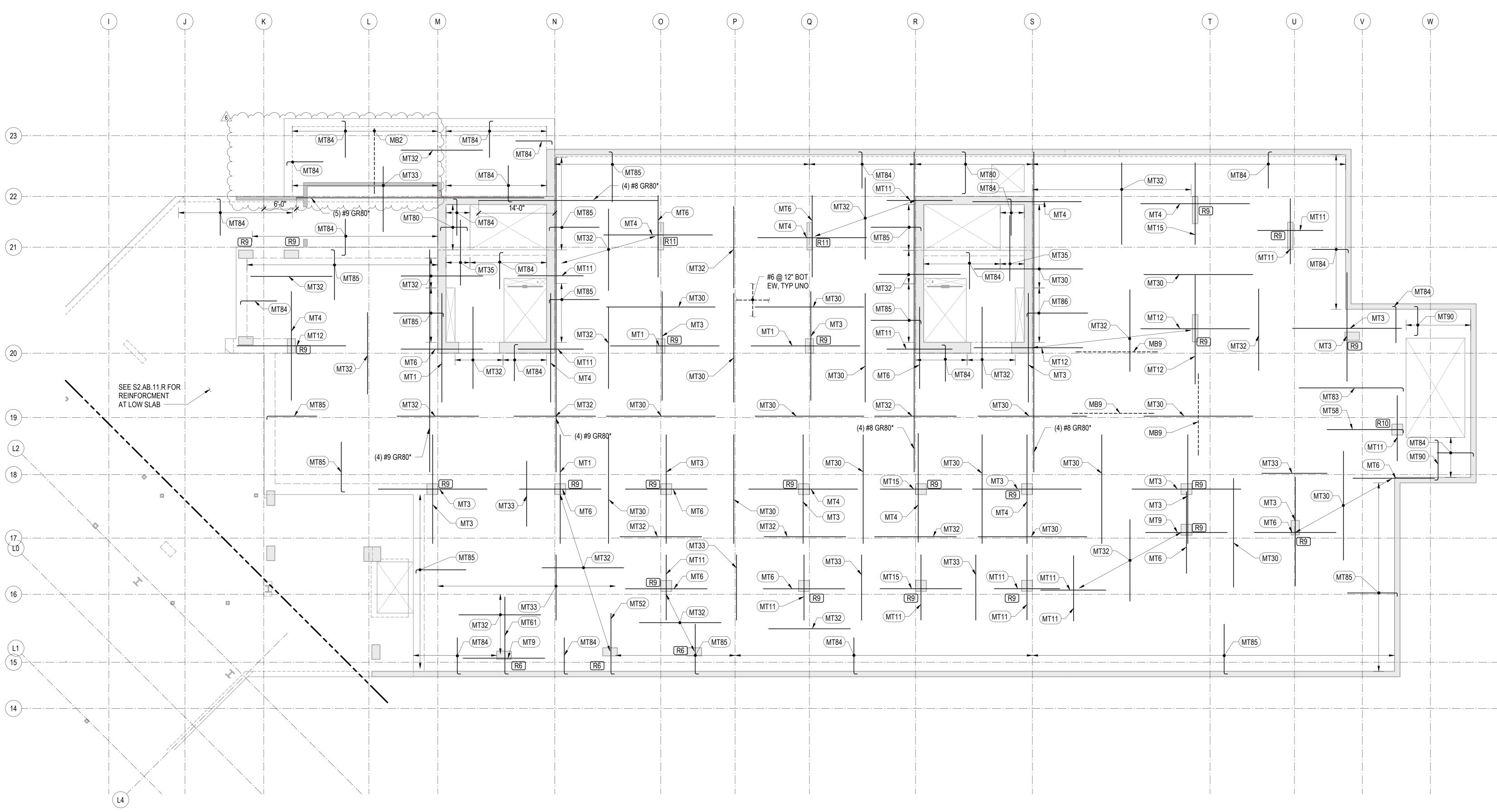
7. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.

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.

BEAMS, SHALL HAVE MINIMUM CONCRETE STRENGTH EQUAL TO THAT SPECIFIED FOR THE 9. WHERE NOTED ARCHITECTURAL CONCRETE WALLS ARE TO MAINTAIN 1-INCH MINIMUM GAP TO PRIMARY STRUCTURAL COLUMNS / WALLS / SLAB EDGE.

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1 TOWER B - PARKING LEVEL 1 - REINFORCEMENT PLAN

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.
- 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.

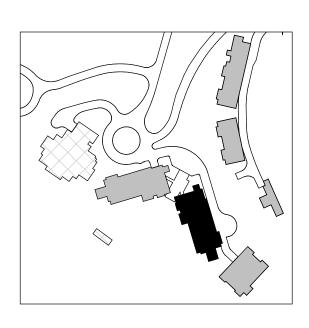
MILD	MILD TOP REINFORCEMENT SCHEDULE			
MARK	REINFORCING	REMARKS		
MT1	(13) #6x20'-0" @ 10"	STAGGER 6'-0"		
MT2	(13) #7x20'-0" @ 10"	STAGGER 5'-0"		
MT3	(11) #7x20'-0" @ 12"	STAGGER 4'-0"		
MT4	(11) #6x20'-0" @ 12"	STAGGER 4'-0"		
MT5	(13) #5x15'-0" @ 10"	STAGGER 4'-0"		
MT6	(11) #6x15'-0" @ 12"	STAGGER 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"		
MT17	(11) #4x15'-0" @ 12"	STAGGER 3'-0"		

MILD TOP REINFORCEMENT SCHEDULE		
MARK	REINFORCING	REMARKS
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"
MT50	(6) #5x24'-2" @ 12"	HOOK AT END

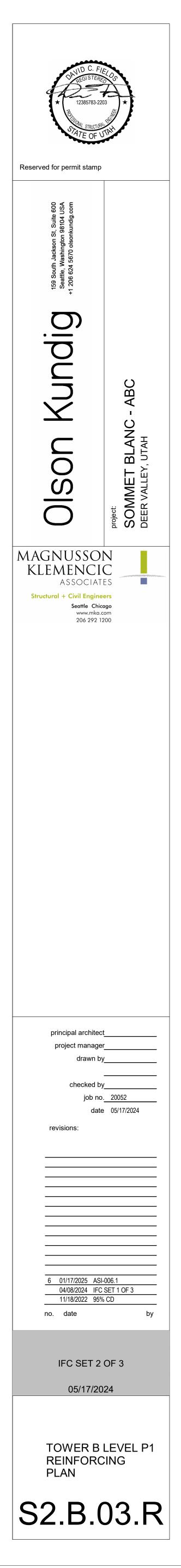
MILD	TOP REINFORCEMEN	IT SCHEDULE
MARK	REINFORCING	REMARKS
MT51	(11) #5x6'-8" @ 12"	HOOK AT END
MT52	(11) #5x11'-2" @ 12"	HOOK AT END
MT53	(7) #6x11'-0" @ 12"	HOOK AT END
MT54	(11) #5x14-2" @ 12"	HOOK AT END
MT55	(16) #6x14'-0" @ 8"	HOOK AT END
MT56	(6) #5x14'-2" @ 12"	HOOK AT END
MT57	(6) #6x9'-0" @ 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
MT65	(11) #4x6'-10" @ 12"	HOOK AT END
MT66	(16) #7x18'-10" @ 8"	HOOK AT END

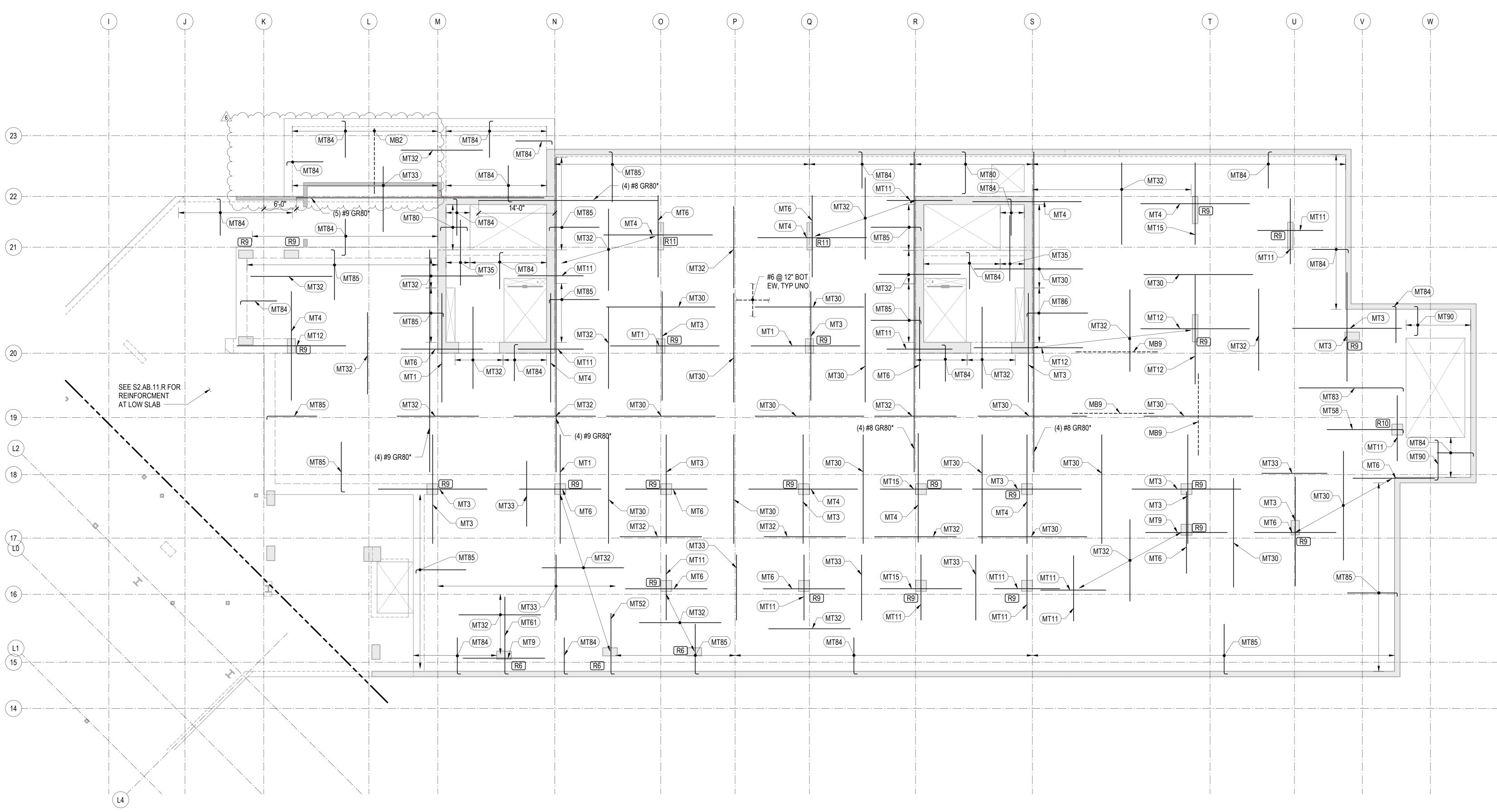
MILD	TOP REINFORCEMEN	IT SCHEDULE
MARK	REINFORCING	REMARKS
MT80	#5 @ 12"	HOOK BOTH ENDS
MT81	#5x14'-2" @ 12"	HOOK AT END
MT82	#6x29'-0" @ 12"	HOOK AT END
MT83	#5x19'-2" @ 12"	HOOK AT END
MT84	#5x6'-8" @ 12"	HOOK AT END
MT85	#5x9'-2" @ 12"	HOOK AT END
MT86	#5x11'-2" @ 12"	HOOK AT END
MT87	#6x11'-0" @ 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 BO	TTOM REINFORCEM	ENT 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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1 TOWER B - PARKING LEVEL 1 - REINFORCEMENT PLAN

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.
- 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.

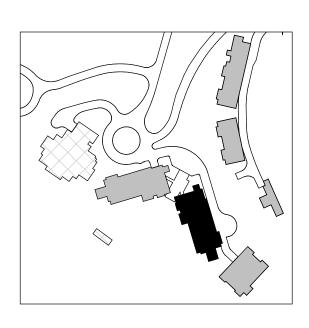
MILD	TOP REINFORCEMEN	NT SCHEDULE
MARK	REINFORCING	REMARKS
MT1	(13) #6x20'-0" @ 10"	STAGGER 6'-0"
MT2	(13) #7x20'-0" @ 10"	STAGGER 5'-0"
MT3	(11) #7x20'-0" @ 12"	STAGGER 4'-0"
MT4	(11) #6x20'-0" @ 12"	STAGGER 4'-0"
MT5	(13) #5x15'-0" @ 10"	STAGGER 4'-0"
MT6	(11) #6x15'-0" @ 12"	STAGGER 4'-0"
MT7	(15) #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"
MT17	(11) #4x15'-0" @ 12"	STAGGER 3'-0"

MILE	TOP REINFORCEME	NT SCHEDULE
MARK	REINFORCING	REMARKS
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"
MT50	(6) #5x24'-2" @ 12"	HOOK AT END

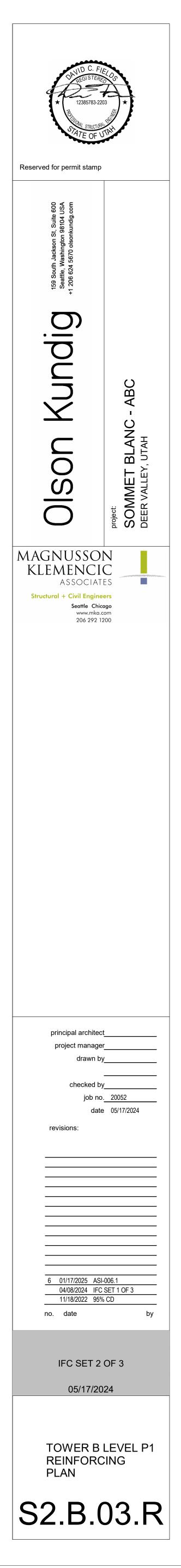
MILD	TOP REINFORCEMEN	IT SCHEDULE
MARK	REINFORCING	REMARKS
MT51	(11) #5x6'-8" @ 12"	HOOK AT END
MT52	(11) #5x11'-2" @ 12"	HOOK AT END
MT53	(7) #6x11'-0" @ 12"	HOOK AT END
MT54	(11) #5x14-2" @ 12"	HOOK AT END
MT55	(16) #6x14'-0" @ 8"	HOOK AT END
MT56	(6) #5x14'-2" @ 12"	HOOK AT END
MT57	(6) #6x9'-0" @ 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
MT65	(11) #4x6'-10" @ 12"	HOOK AT END
MT66	(16) #7x18'-10" @ 8"	HOOK AT END

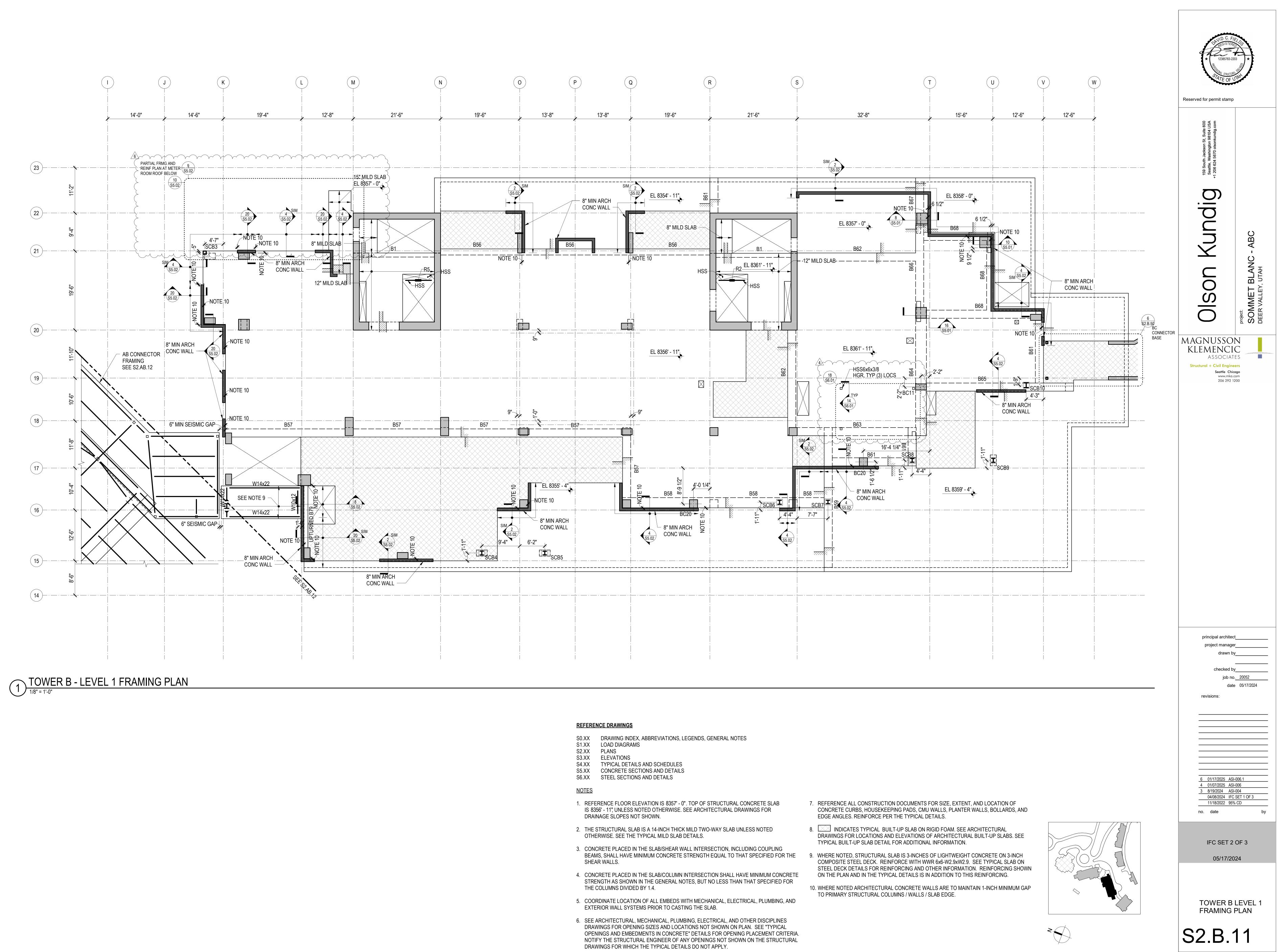
MILD	TOP REINFORCEMEN	IT SCHEDULE
MARK	REINFORCING	REMARKS
MT80	#5 @ 12"	HOOK BOTH ENDS
MT81	#5x14'-2" @ 12"	HOOK AT END
MT82	#6x29'-0" @ 12"	HOOK AT END
MT83	#5x19'-2" @ 12"	HOOK AT END
MT84	#5x6'-8" @ 12"	HOOK AT END
MT85	#5x9'-2" @ 12"	HOOK AT END
MT86	#5x11'-2" @ 12"	HOOK AT END
MT87	#6x11'-0" @ 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 BO	TTOM REINFORCEM	ENT 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

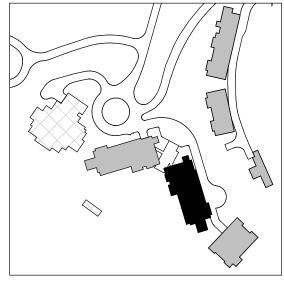


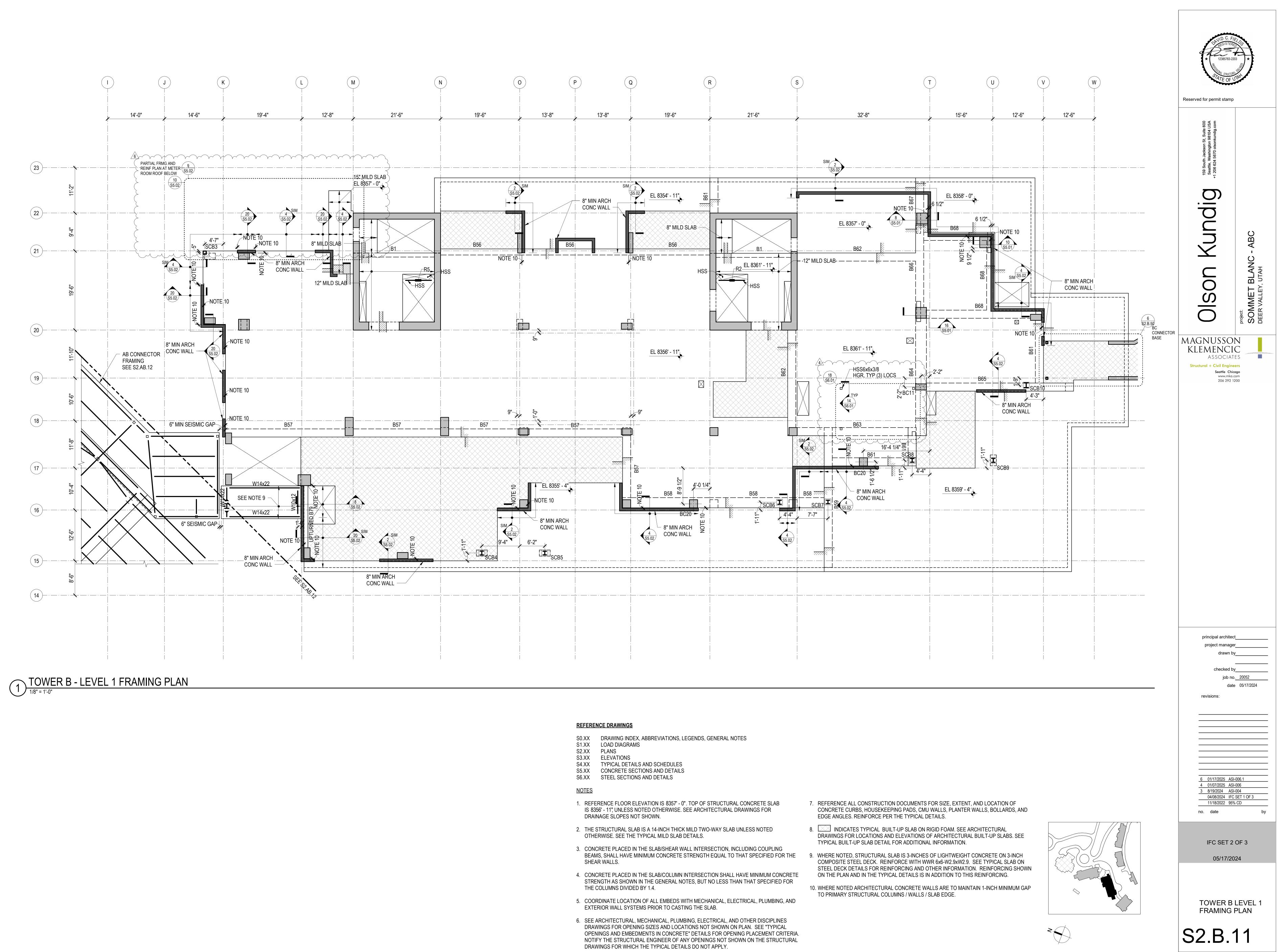
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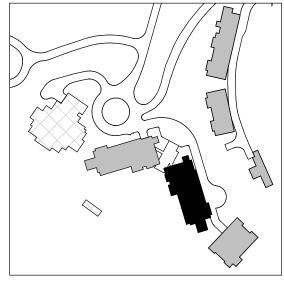


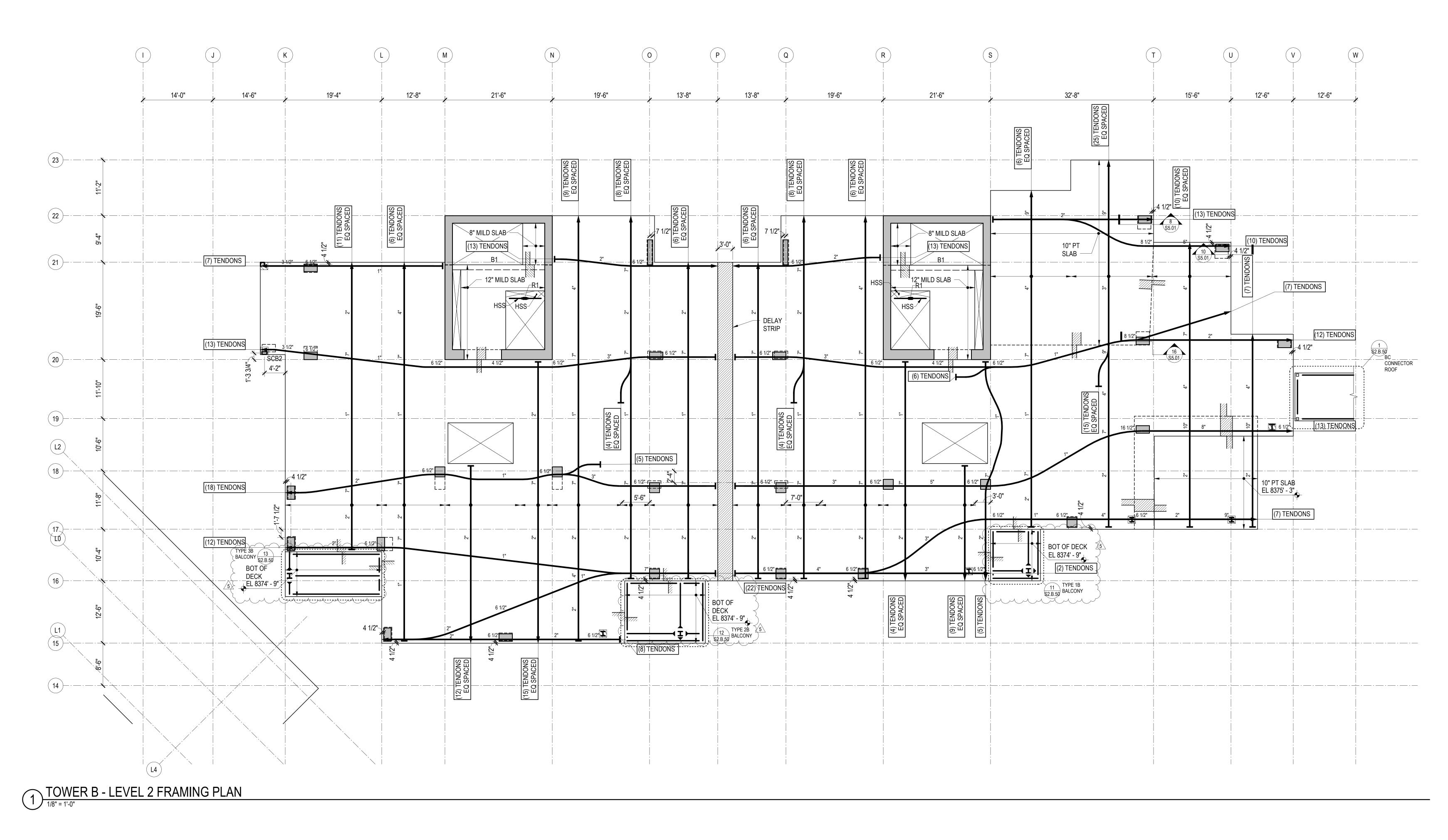












- S0.XX DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
- S1.XX LOAD DIAGRAMS
- S2.XX PLANS
- S3.XX ELEVATIONS
- S4.XX TYPICAL DETAILS AND SCHEDULES
- CONCRETE SECTIONS AND DETAILS S5.XX S6.XX STEEL SECTIONS AND DETAILS

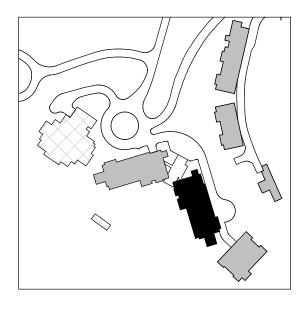
<u>NOTES</u>

- 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.

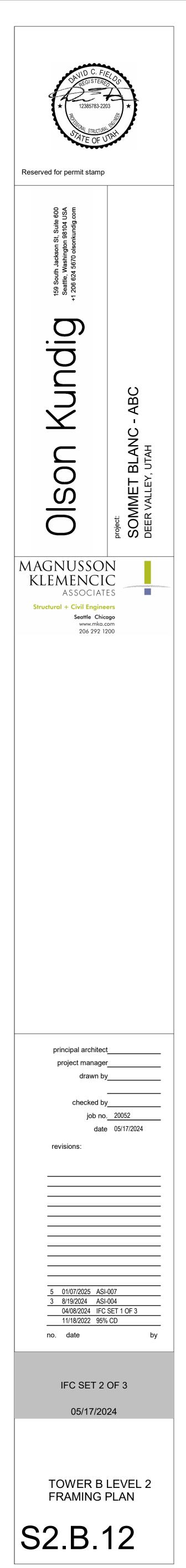
1. REFERENCE FLOOR ELEVATION IS 8376' - 0". TOP OF STRUCTURAL CONCRETE SLAB 7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.

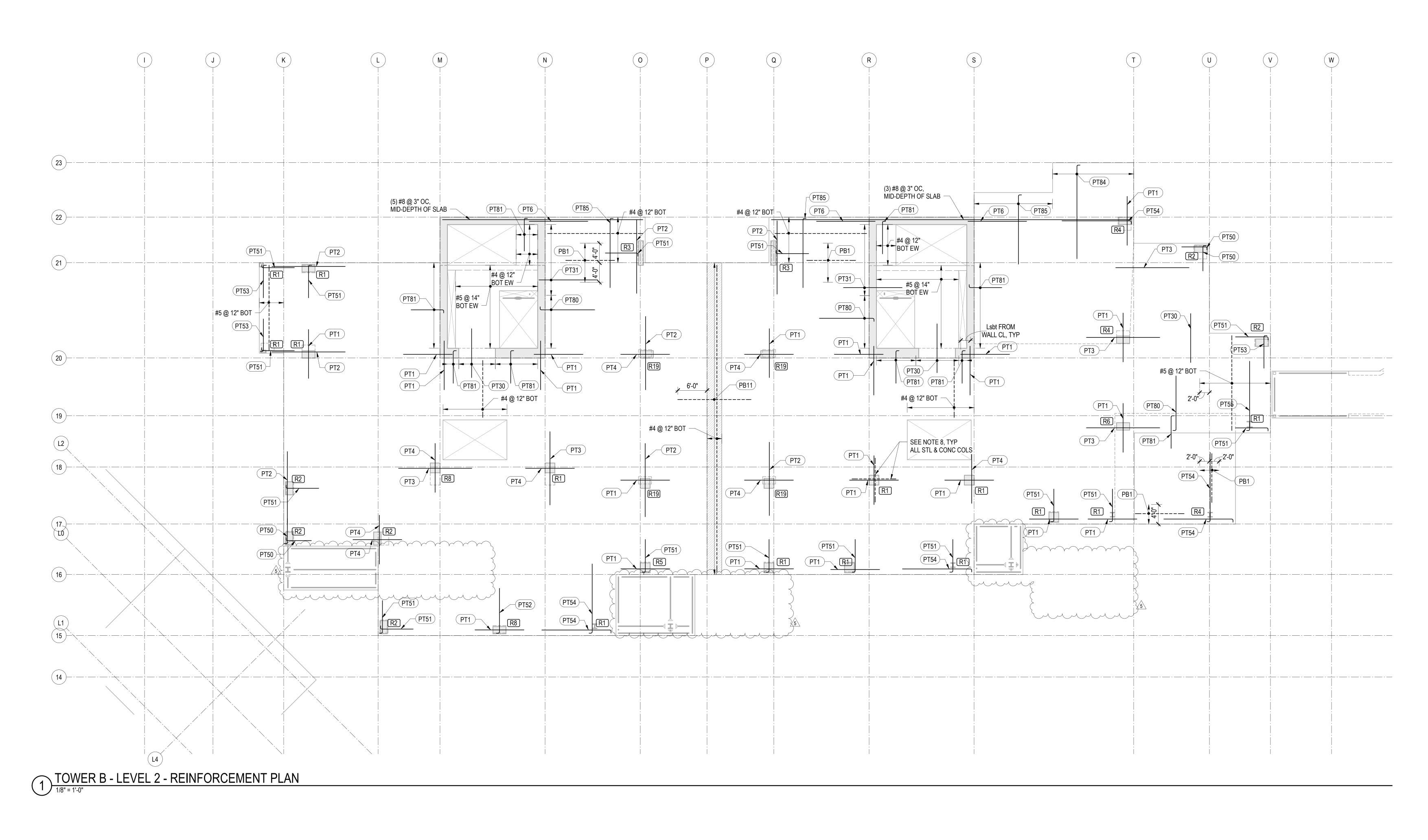
> 8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES. REINFORCE PER THE TYPICAL DETAILS.

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.









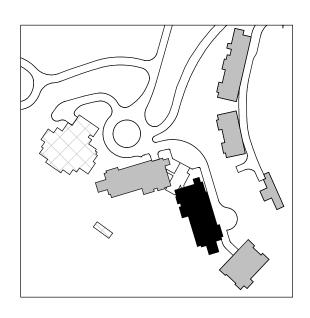
REINFORCING NOTES:

- 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.

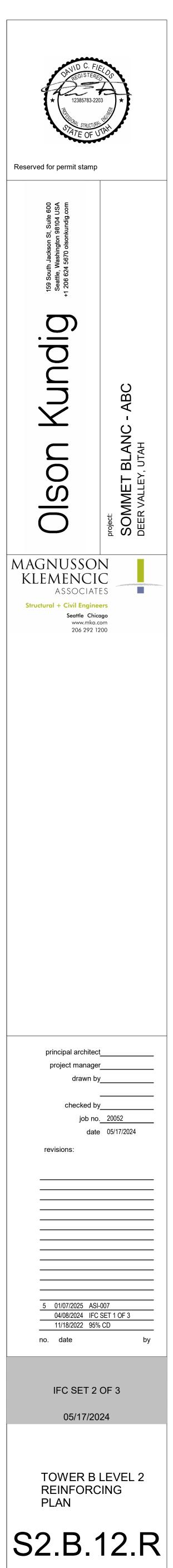
MARK	REINFORCING	REMARKS
PT1	(6) #5x10'-0"	
PT2	(6) #5x15'-0"	
PT3	(8) #5x15'-0"	
PT4	(12) #5x10'-0"	
PT5	(10) #5x20'-0"	
PT6	(18) #6x12'-0" @ 5"	STAGGER 3'-0"
PT7	(14) #5x10'-0"	
PT8	(16) #6x20'-0"	
PT9	(14) #6x15'-0"	
PT10	(12) #5x20'-0"	
PT11	(12) #5x15'-0"	
PT30	#5x10'-0"@ 15"	
PT31	#5x12'-0"@ 12"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

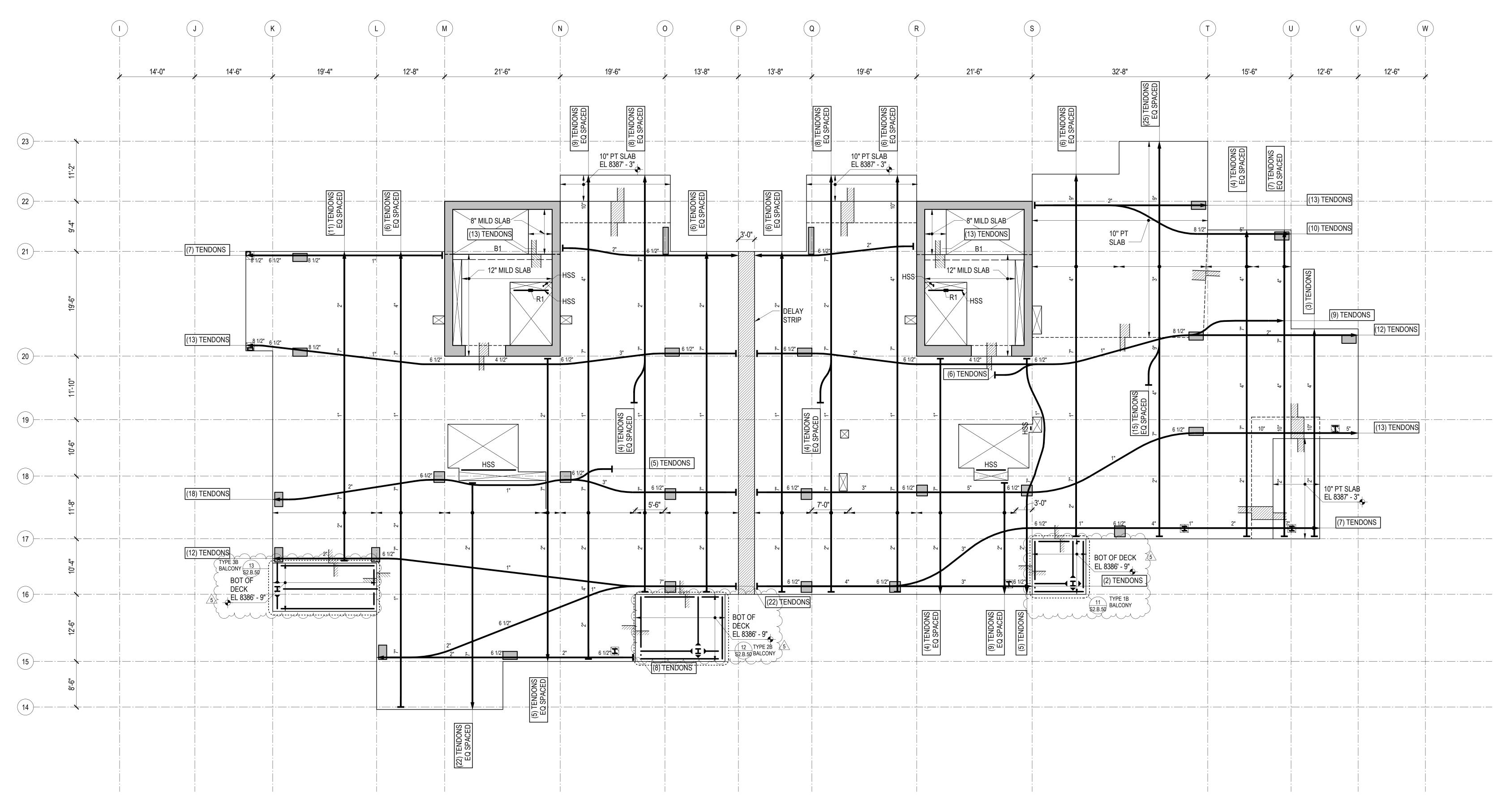
PT T	OP REINFORCEMEN	FSCHEDULE
MARK	REINFORCING	REMARKS
PT50	(3) #5x5'-2"	HOOK AT END
PT51	(6) #5x6'-8"	HOOK AT END
PT52	(10) #5x9'-2"	HOOK AT END
PT53	(8) #5x6'-8"	HOOK AT END
PT54	(6) #5x14'-2"	HOOK AT END
PT55	(8) #5x14'-2"	HOOK AT END
PT56	(16) #5x11'-2"	HOOK AT END
PT57	(16) #5x14'-2"	HOOK AT END
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 BO	TTOM REINFORCEMI	ENT 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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- S0.XX DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
- S1.XX LOAD DIAGRAMS
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- S3.XX ELEVATIONS S4.XX
 - TYPICAL DETAILS AND SCHEDULES CONCRETE SECTIONS AND DETAILS
- S5.XX S6.XX STEEL SECTIONS AND DETAILS

<u>NOTES</u>

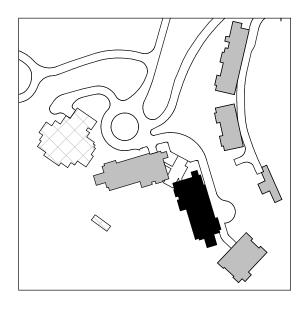
- 1. REFERENCE FLOOR ELEVATION IS 8388' 0". TOP OF STRUCTURAL CONCRETE SLAB IS 8387' - 11", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
- 2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED 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.

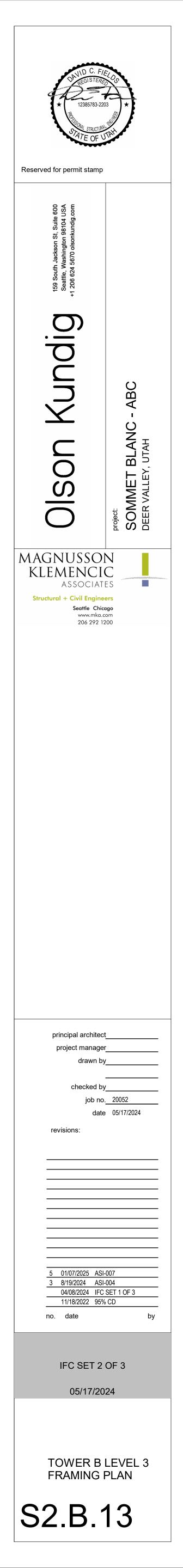
DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY.

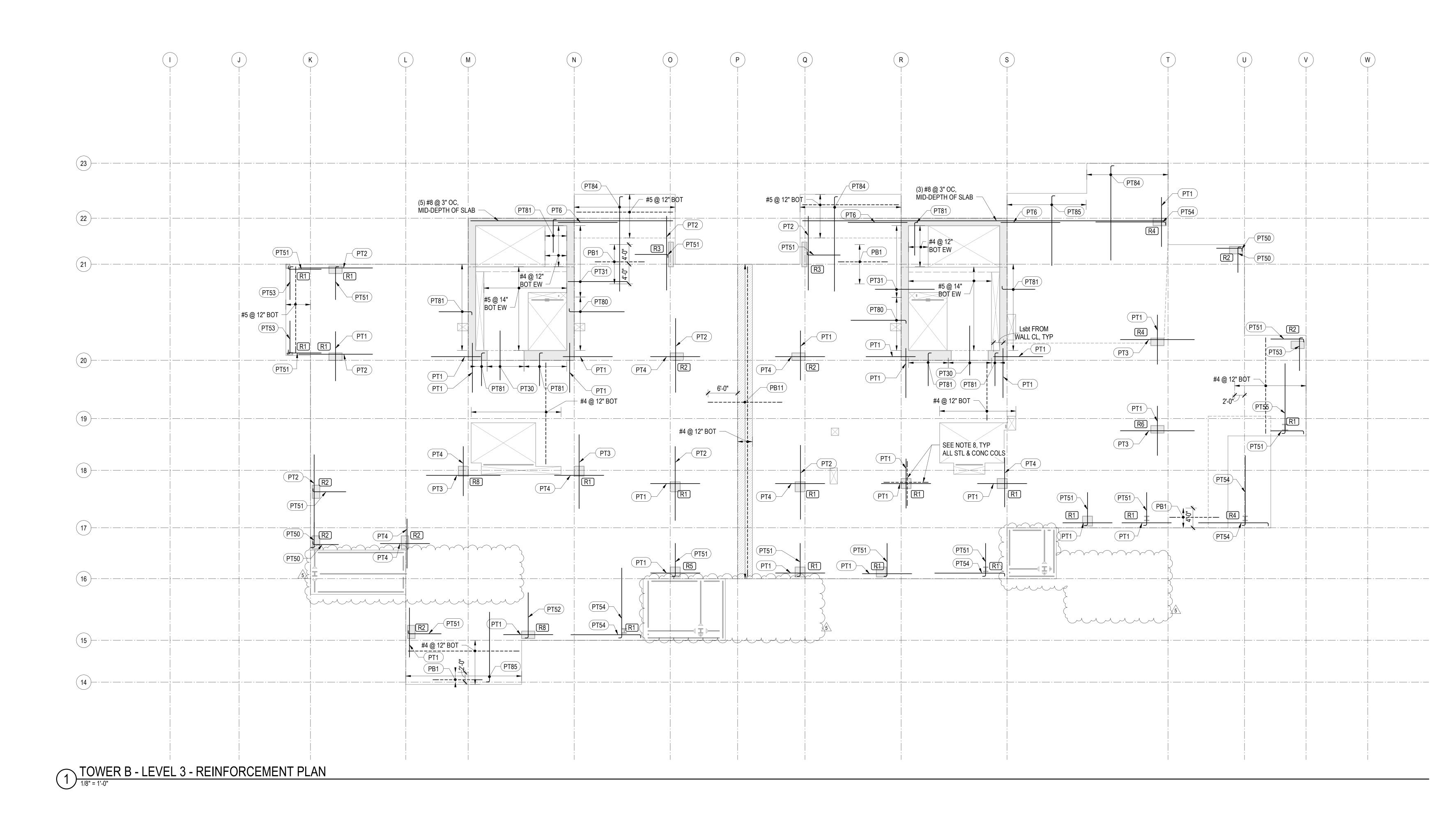
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES

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.







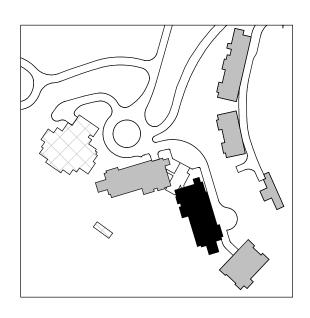
REINFORCING NOTES:

- 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.

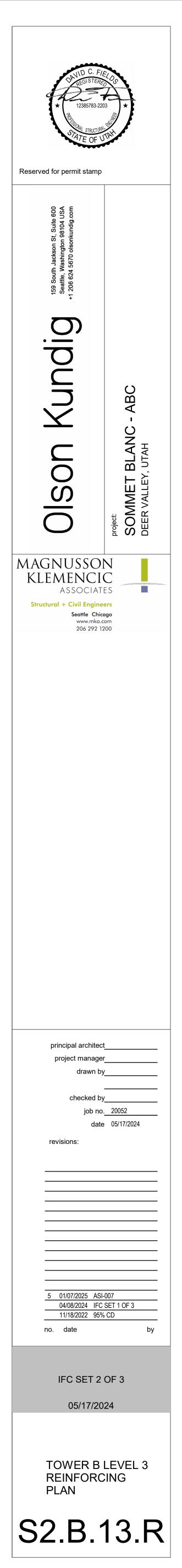
MARK	REINFORCING	REMARKS
PT1	(6) #5x10'-0"	
PT2	(6) #5x15'-0"	
PT3	(8) #5x15'-0"	
PT4	(12) #5x10'-0"	
PT5	(10) #5x20'-0"	
PT6	(18) #6x12'-0" @ 5"	STAGGER 3'-0"
PT7	(14) #5x10'-0"	
PT8	(16) #6x20'-0"	
PT9	(14) #6x15'-0"	
PT10	(12) #5x20'-0"	
PT11	(12) #5x15'-0"	
PT30	#5x10'-0"@ 15"	
PT31	#5x12'-0"@ 12"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

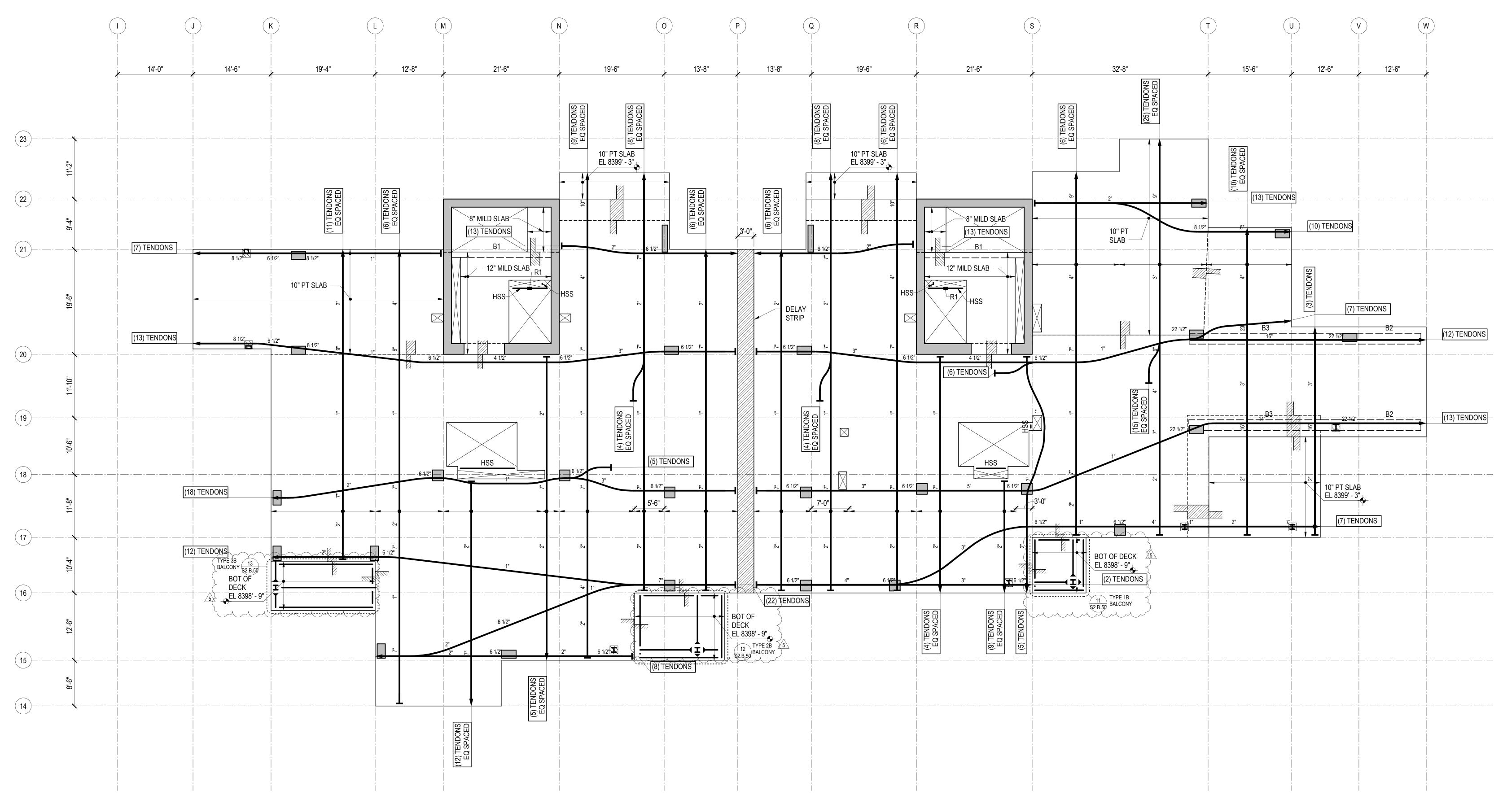
PT TOP REINFORCEMENT SCHEDULE			
MARK	REINFORCING	REMARKS	
PT50	(3) #5x5'-2"	HOOK AT END	
PT51	(6) #5x6'-8"	HOOK AT END	
PT52	(10) #5x9'-2"	HOOK AT END	
PT53	(8) #5x6'-8"	HOOK AT END	
PT54	(6) #5x14'-2"	HOOK AT END	
PT55	(8) #5x14'-2"	HOOK AT END	
PT56	(16) #5x11'-2"	HOOK AT END	
PT57	(16) #5x14'-2"	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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- S2.XX PLANS
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- TYPICAL DETAILS AND SCHEDULES S4.XX CONCRETE SECTIONS AND DETAILS S5.XX
- S6.XX STEEL SECTIONS AND DETAILS

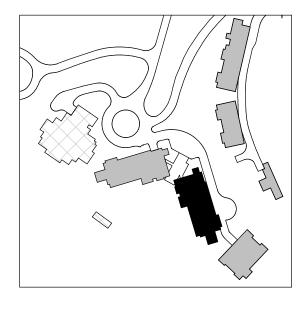
<u>NOTES</u>

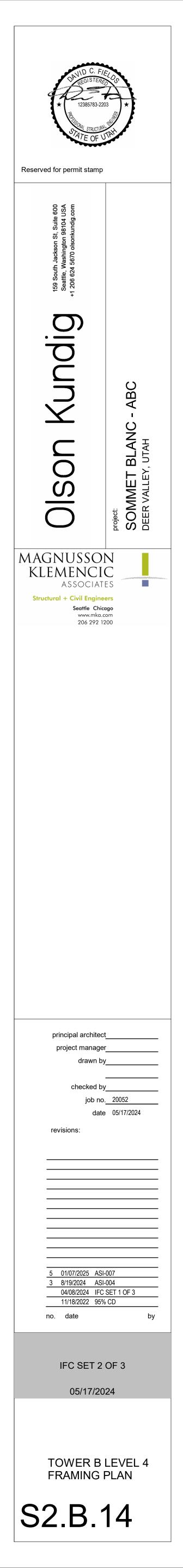
- 1. REFERENCE FLOOR ELEVATION IS 8400' 0". TOP OF STRUCTURAL CONCRETE SLAB IS 8399' - 11", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
- 2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED 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.

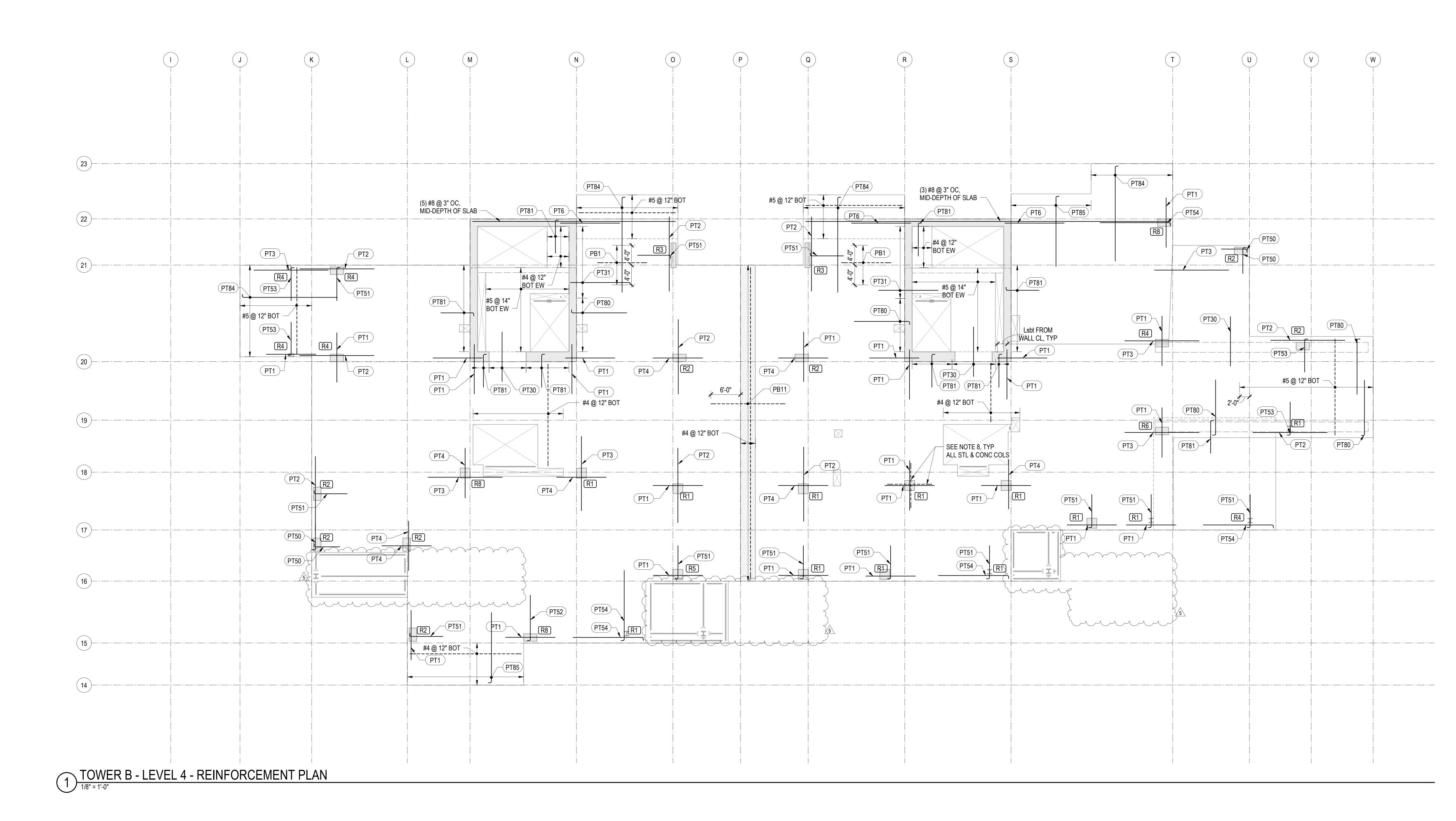
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES DRAWINGS FOR OPENING SIZES AND LOCATIONS NOT SHOWN ON PLAN. SEE "TYPICAL OPENINGS AND EMBEDMENTS IN CONCRETE" DETAILS FOR OPENING PLACEMENT CRITERIA. NOTIFY THE STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL 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.







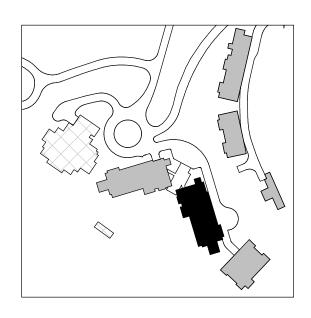
REINFORCING NOTES:

- 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.

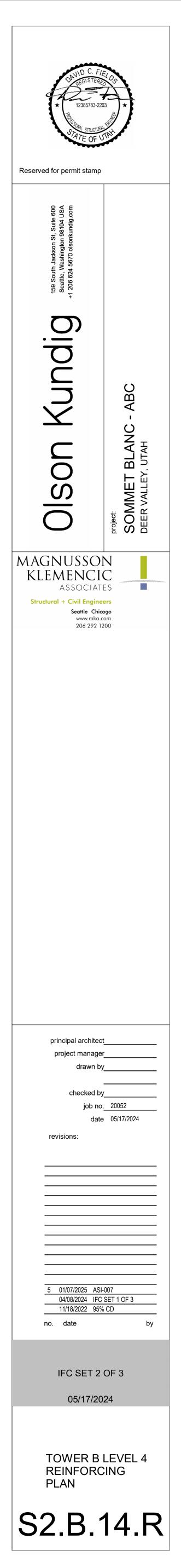
PT TOP REINFORCEMENT SCHEDULE			
MARK	REINFORCING	REMARKS	
PT1	(6) #5x10'-0"		
PT2	(6) #5x15'-0"		
PT3	(8) #5x15'-0"		
PT4	(12) #5x10'-0"		
PT5	(10) #5x20'-0"		
PT6	(18) #6x12'-0" @ 5"	STAGGER 3'-0"	
PT7	(14) #5x10'-0"		
PT8	(16) #6x20'-0"		
PT9	(14) #6x15'-0"		
PT10	(12) #5x20'-0"		
PT11	(12) #5x15'-0"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

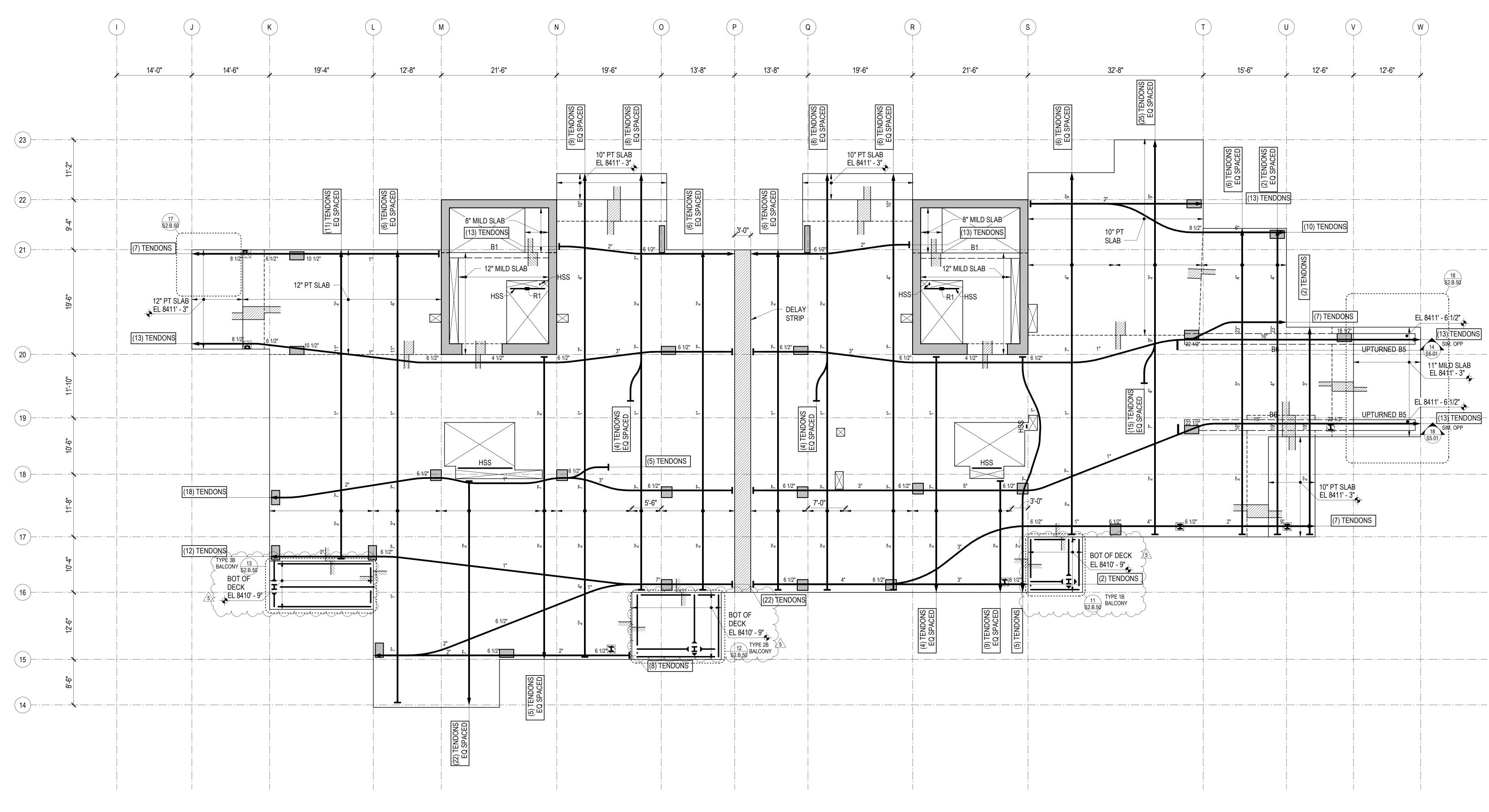
PT TOP REINFORCEMENT SCHEDULE				
MARK	REINFORCING	REMARKS		
PT50	(3) #5x5'-2"	HOOK AT END		
PT51	(6) #5x6'-8"	HOOK AT END		
PT52	(10) #5x9'-2"	HOOK AT END		
PT53	(8) #5x6'-8"	HOOK AT END		
PT54	(6) #5x14'-2"	HOOK AT END		
PT55	(8) #5x14'-2"	HOOK AT END		
PT56	(16) #5x11'-2"	HOOK AT END		
PT57	(16) #5x14'-2"	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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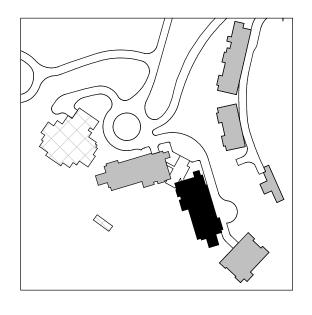


- DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES S0.XX
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- S2.XX PLANS
- S3.XX ELEVATIONS
- TYPICAL DETAILS AND SCHEDULES S4.XX
- CONCRETE SECTIONS AND DETAILS S5.XX S6.XX STEEL SECTIONS AND DETAILS

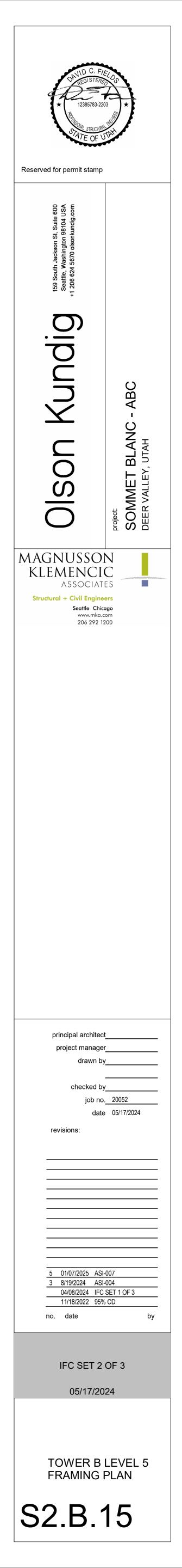
<u>NOTES</u>

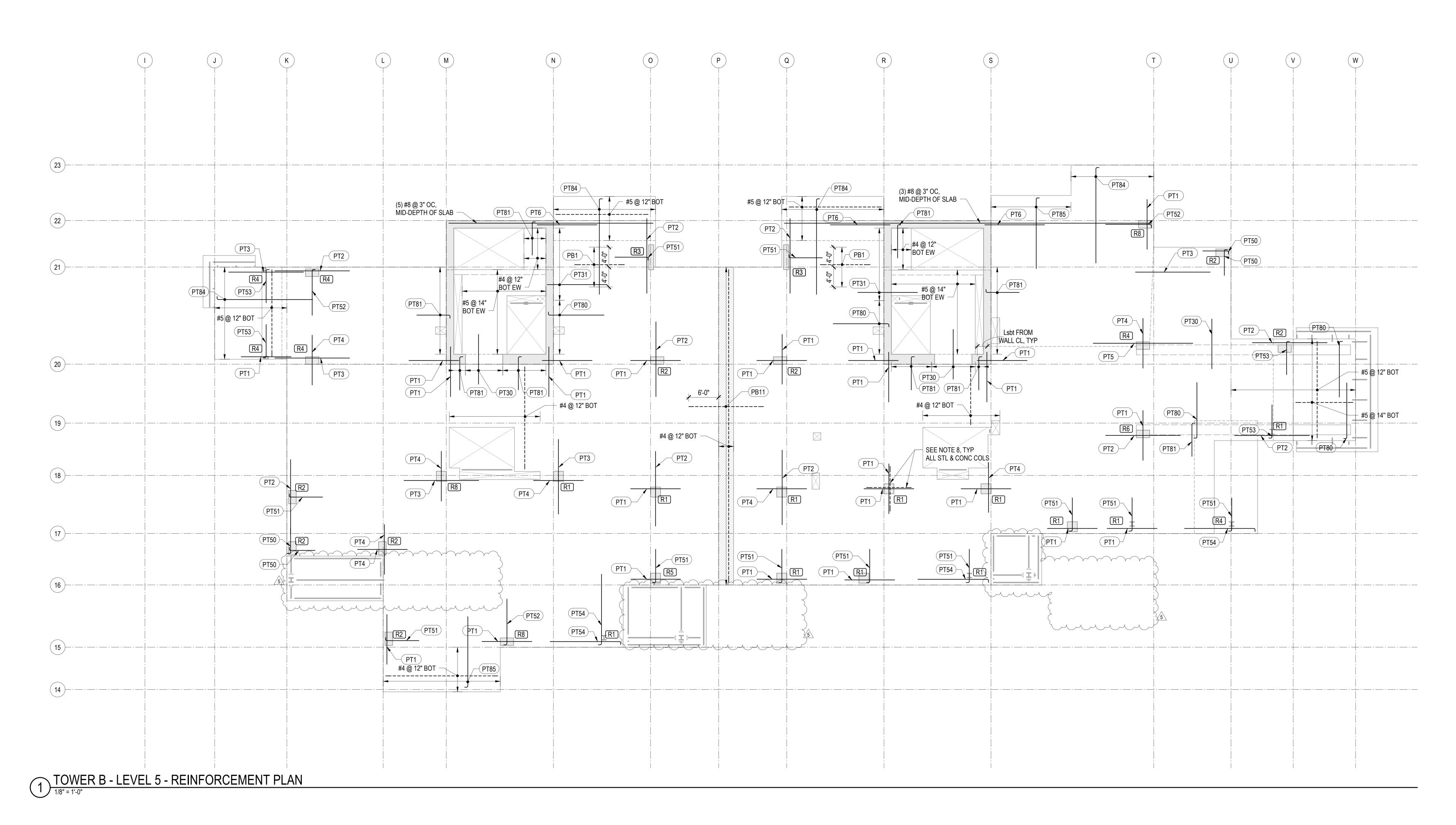
- 1. REFERENCE FLOOR ELEVATION IS 8412' 0". TOP OF STRUCTURAL CONCRETE SLAB IS 8411' - 11", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
- 2. STRUCTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR ADDITIONAL INFORMATION.
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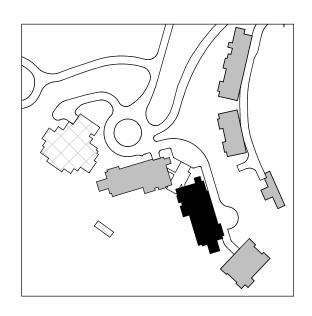
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MARK	REINFORCING	REMARKS
PT1	(6) #5x10'-0"	
PT2	(6) #5x15'-0"	
PT3	(8) #5x15'-0"	
PT4	(12) #5x10'-0"	
PT5	(10) #5x20'-0"	
PT6	(18) #6x12'-0" @ 5"	STAGGER 3'-0"
PT7	(14) #5x10'-0"	
PT8	(16) #6x20'-0"	
PT9	(14) #6x15'-0"	
PT10	(12) #5x20'-0"	
PT11	(12) #5x15'-0"	
PT30	#5x10'-0"@ 15"	
PT31	#5x12'-0"@ 12"	STAGGER 2'-0"
PT33	#5x6'-0" @ 12"	

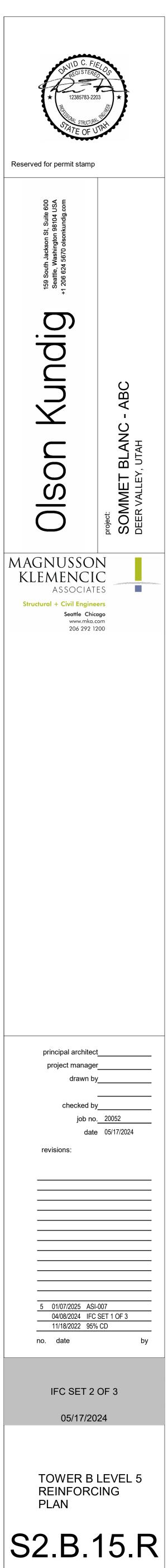
PT T	OP REINFORCEMEN	T SCHEDULE
MARK	REINFORCING	REMARKS
PT50	(3) #5x5'-2"	HOOK AT END
PT51	(6) #5x6'-8"	HOOK AT END
PT52	(10) #5x9'-2"	HOOK AT END
PT53	(8) #5x6'-8"	HOOK AT END
PT54	(6) #5x14'-2"	HOOK AT END
PT55	(8) #5x14'-2"	HOOK AT END
PT56	(16) #5x11'-2"	HOOK AT END
PT57	(16) #5x14'-2"	HOOK AT END
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

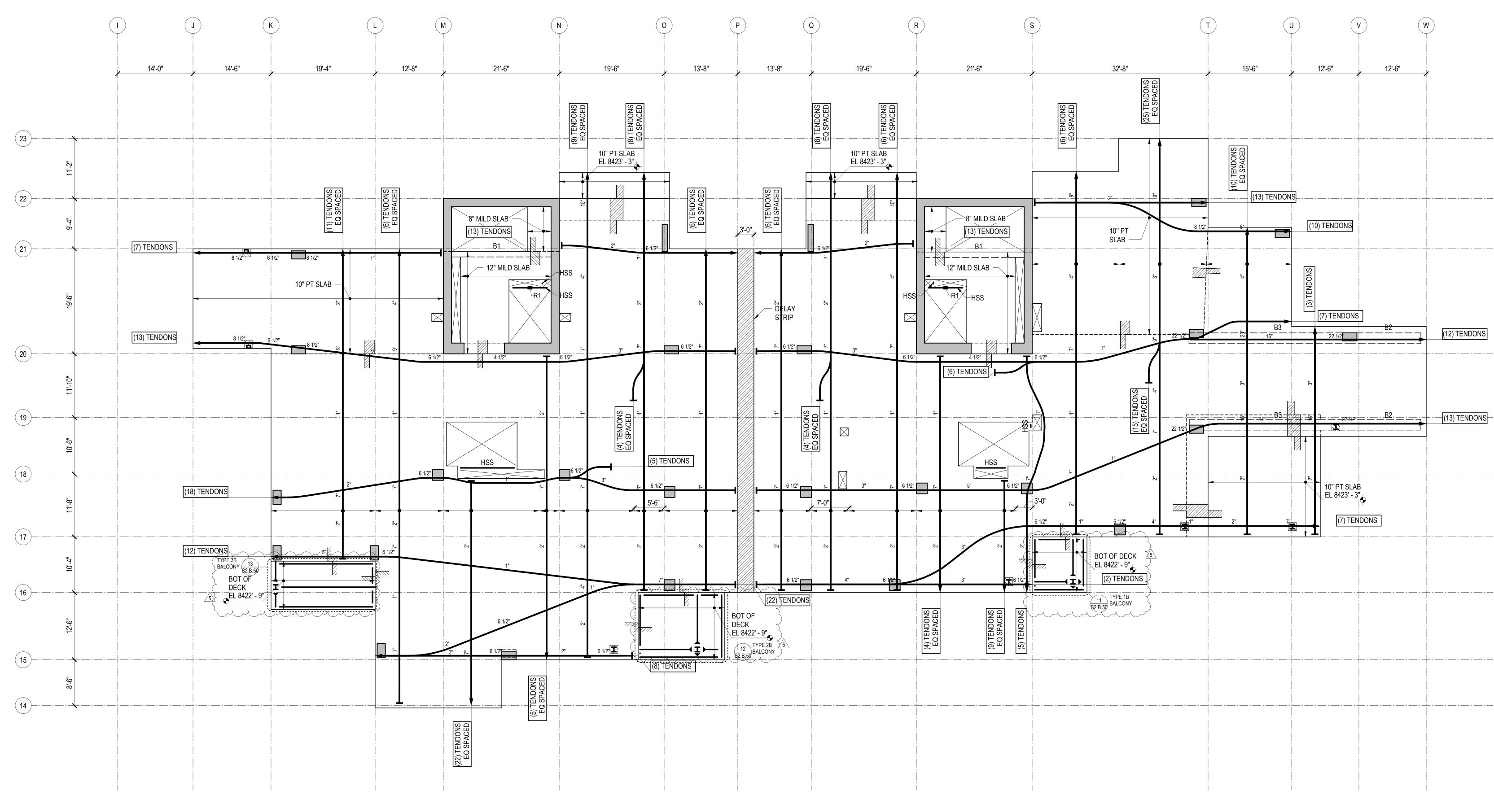
PT BO	TTOM REINFORCEM	OM REINFORCEMENT SCHEDULE	
MARK	REINFORCING	REMARKS	
PB1	#5x10'-0" @ 6"		
PB2	#5x15'-0" @ 12"		
PB7	#5x20'-0" @ 12"		
PB11	#5x15'-0" @ 12"	LAP SPLICE AT DELAY STRIP PER 12/S4.05	
PB18	#5x9'-2" @ 12"	HOOK AT END; SEE 20/S5.01	



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REFERENCE DRAWINGS

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- S2.XX PLANS
- S3.XX ELEVATIONS
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- CONCRETE SECTIONS AND DETAILS S5.XX S6.XX STEEL SECTIONS AND DETAILS

<u>NOTES</u>

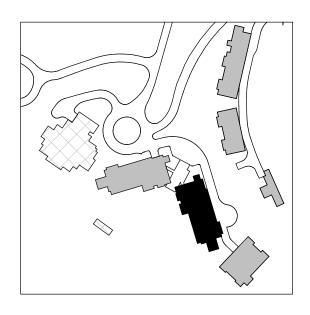
- 1. REFERENCE FLOOR ELEVATION IS 8424' 0". TOP OF STRUCTURAL CONCRETE SLAB IS 8423' - 11", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
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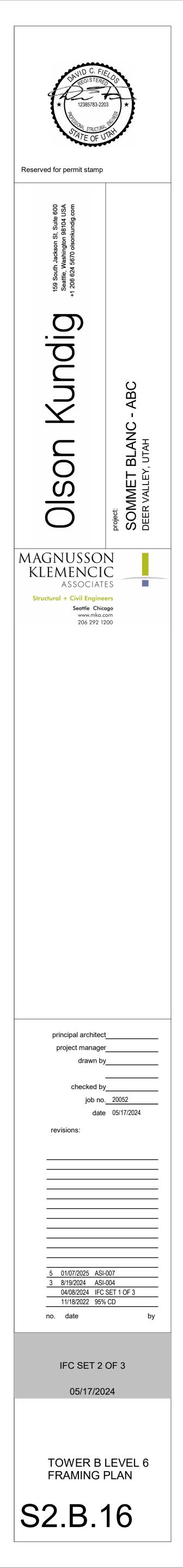
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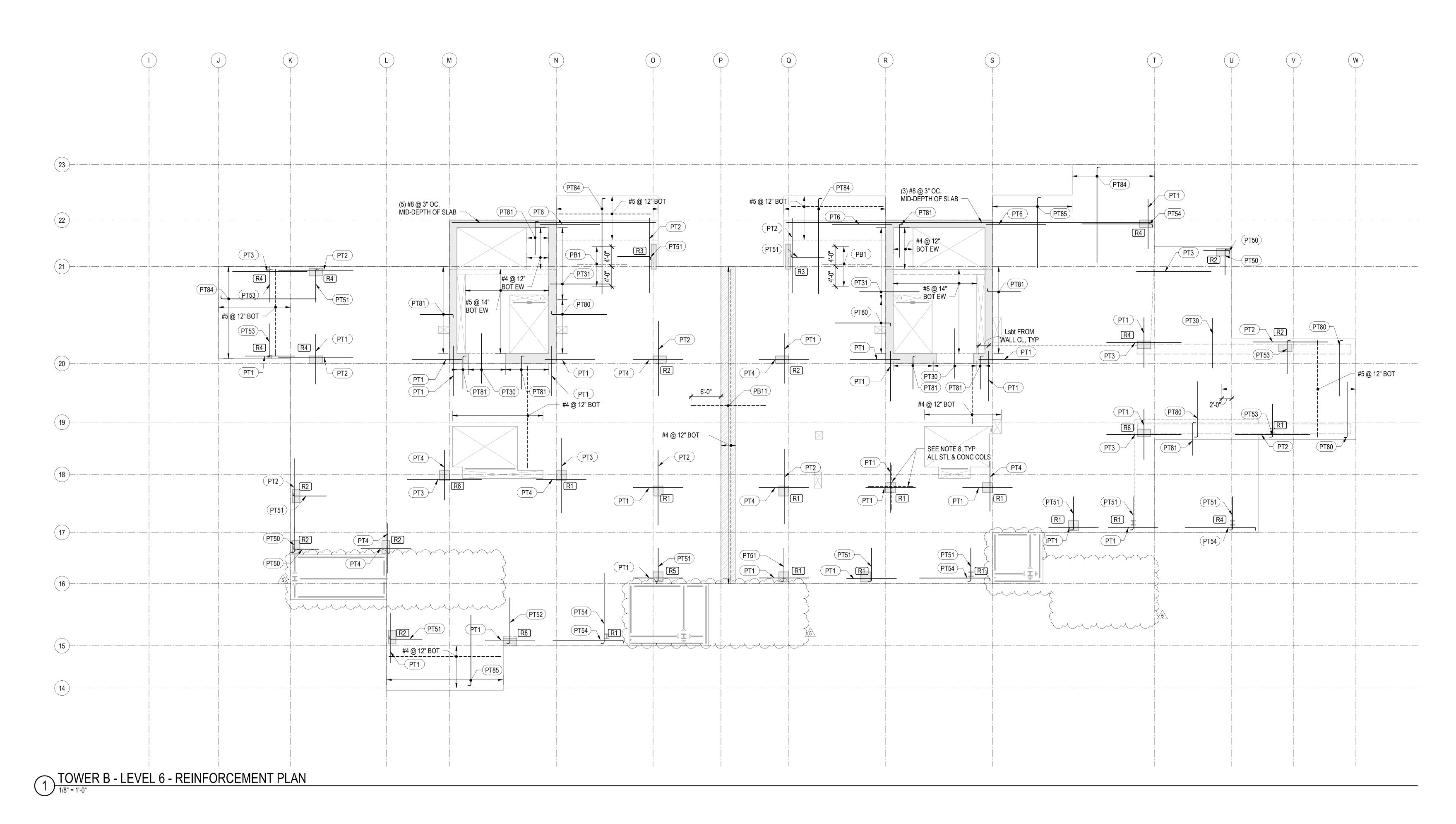
9. INDICATES POUR STRIPS. WAIT 28 DAYS MINIMUM AFTER PLACING SLAB CONCRETE PRIOR TO CASTING POUR STRIPS. SEE "TYPICAL POST-TENSIONED DELAY STRIP" DETAIL FOR MORE INFORMATION.

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.









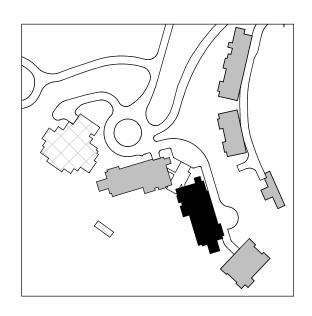
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MARK	REINFORCING	REMARKS	
PT1	(6) #5x10'-0"		
PT2	(6) #5x15'-0"		
PT3	(8) #5x15'-0"		
PT4	(12) #5x10'-0"		
PT5	(10) #5x20'-0"		
PT6	(18) #6x12'-0" @ 5"	STAGGER 3'-0"	
PT7	(14) #5x10'-0"		
PT8	(16) #6x20'-0"		
PT9	(14) #6x15'-0"		
PT10	(12) #5x20'-0"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

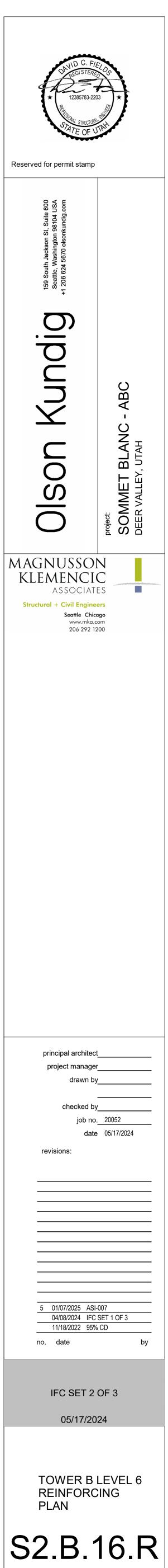
PT T	OP REINFORCEMEN	T SCHEDULE
MARK	REINFORCING	REMARKS
PT50	(3) #5x5'-2"	HOOK AT END
PT51	(6) #5x6'-8"	HOOK AT END
PT52	(10) #5x9'-2"	HOOK AT END
PT53	(8) #5x6'-8"	HOOK AT END
PT54	(6) #5x14'-2"	HOOK AT END
PT55	(8) #5x14'-2"	HOOK AT END
PT56	(16) #5x11'-2"	HOOK AT END
PT57	(16) #5x14'-2"	HOOK AT END
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

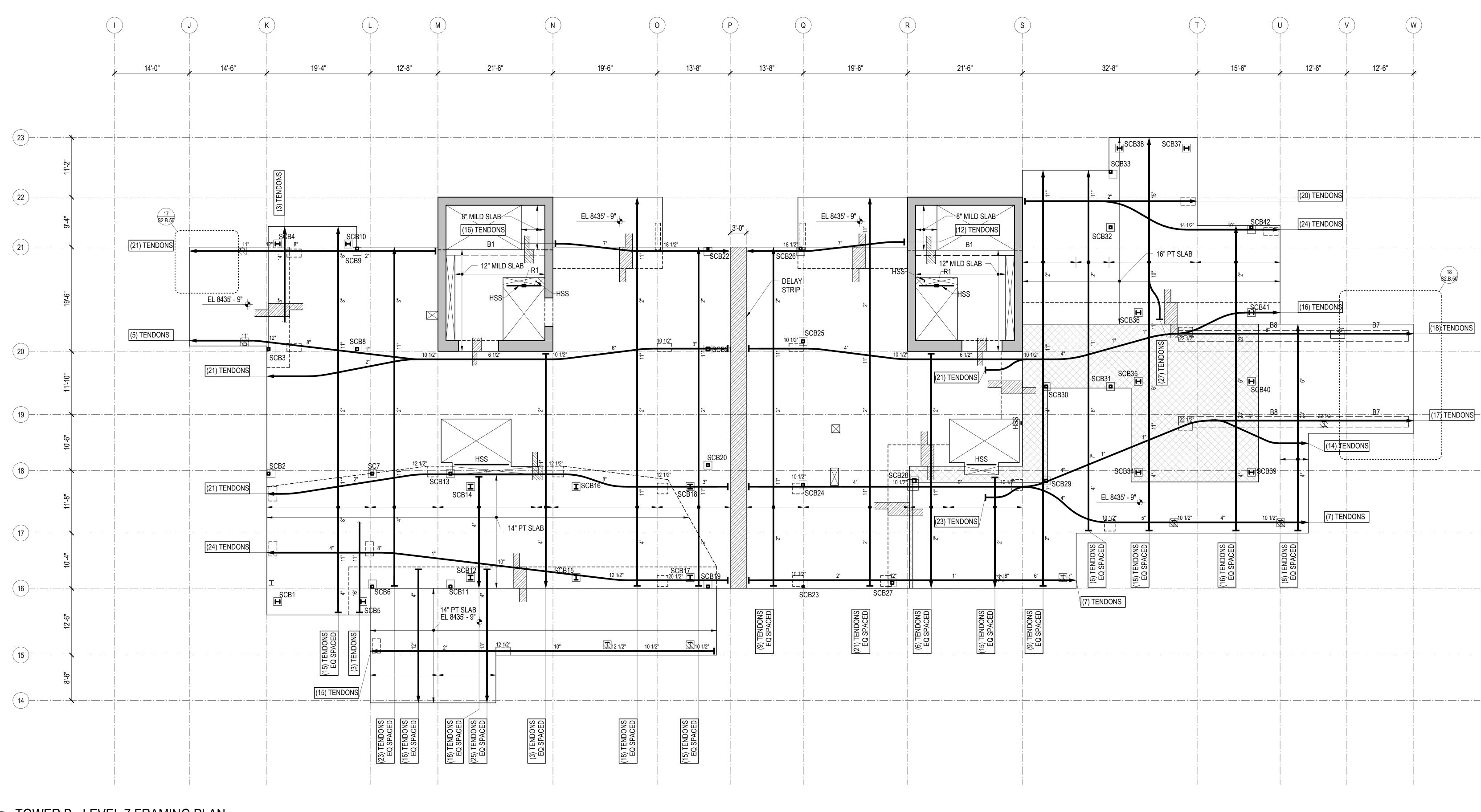
PT BO	OTTOM REINFORCEMENT SCHEDULE	
MARK	REINFORCING	REMARKS
PB1	#5x10'-0" @ 6"	
PB2	#5x15'-0" @ 12"	
PB7	#5x20'-0" @ 12"	
PB11	#5x15'-0" @ 12"	LAP SPLICE AT DELAY STRIP PER 12/S4.05
PB18	#5x9'-2" @ 12"	HOOK AT END; SEE 20/S5.01



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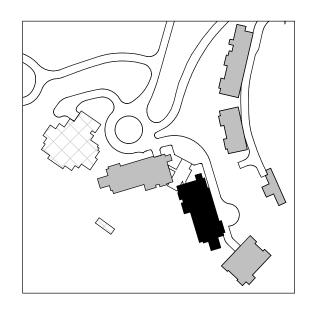
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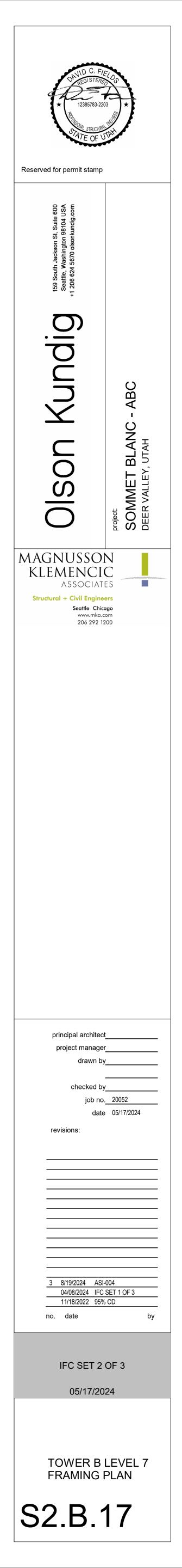
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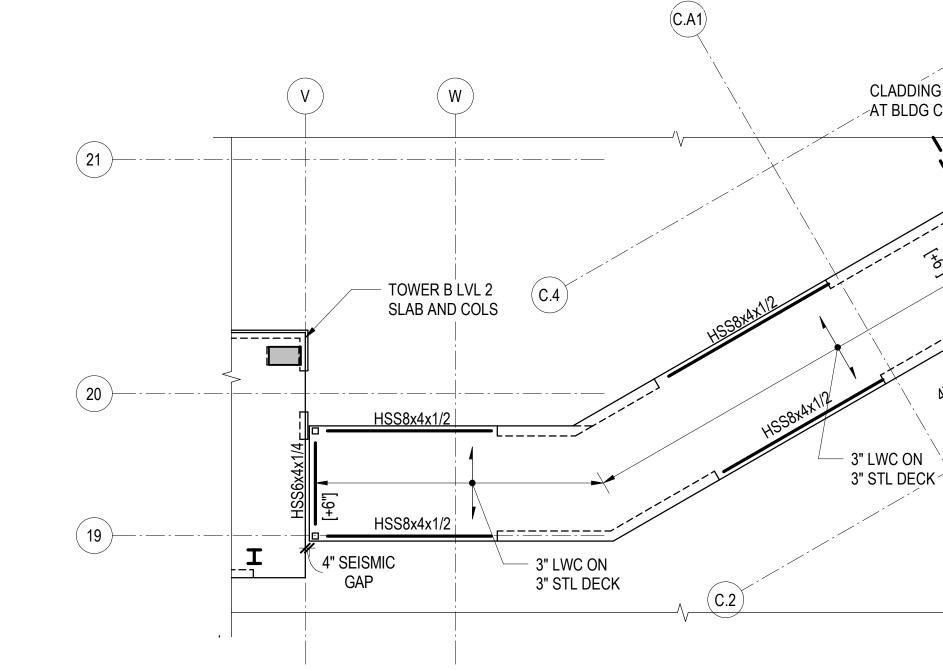
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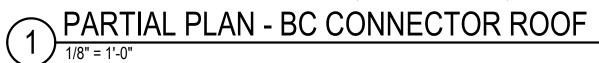
11. "SC#" INDICATES STEEL COLUMN MARK FOR COLUMNS NOT LOCATED BY GRID. SEE TYPICAL STEEL COLUMN DETAILS AND SCHEDULE FOR ADDITIONAL INFORMATION.

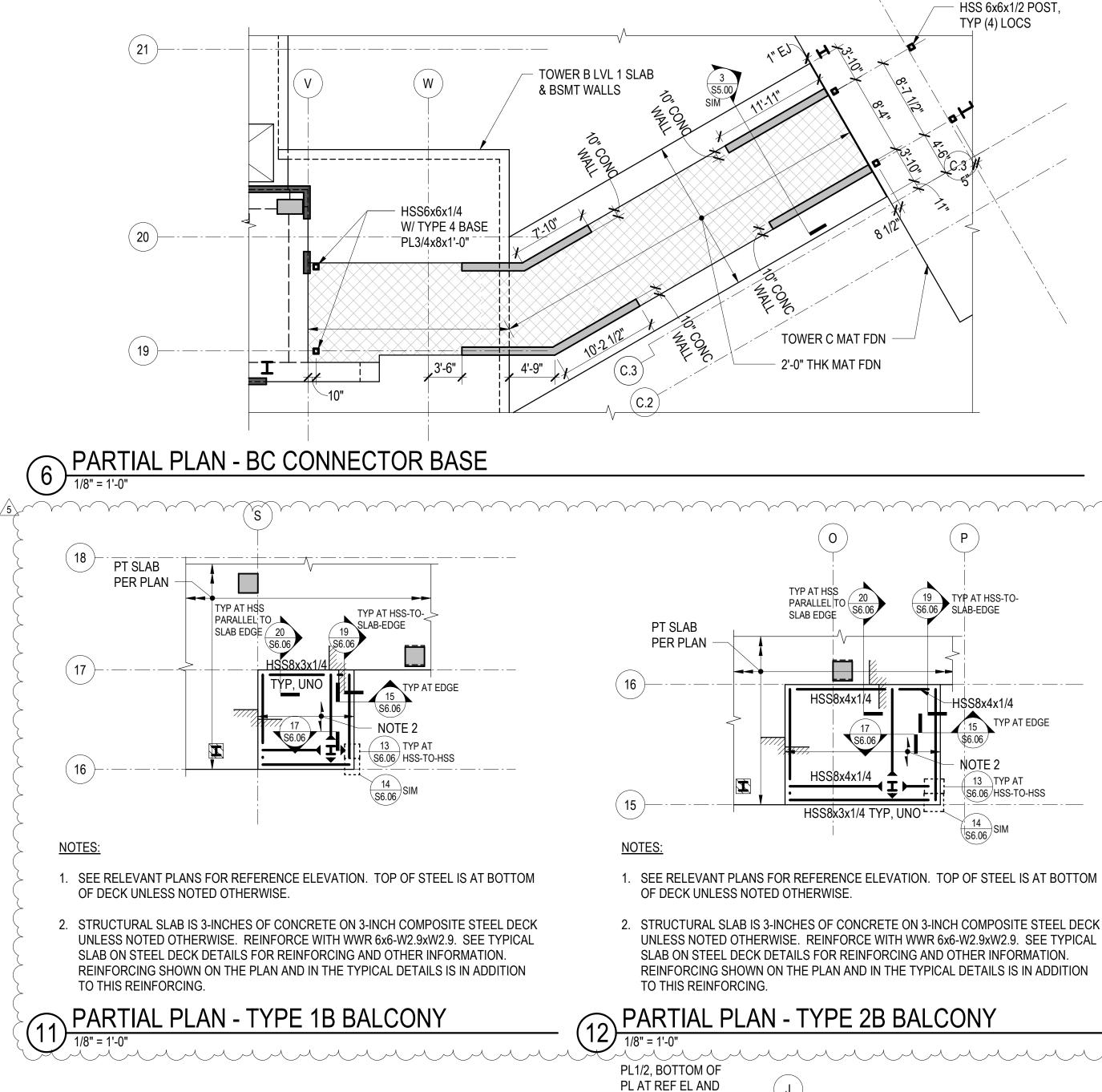


2









NOTES:

1. REFERENCE FLOOR ELEVATIONS ARE:

PL RUNS CONT OVER

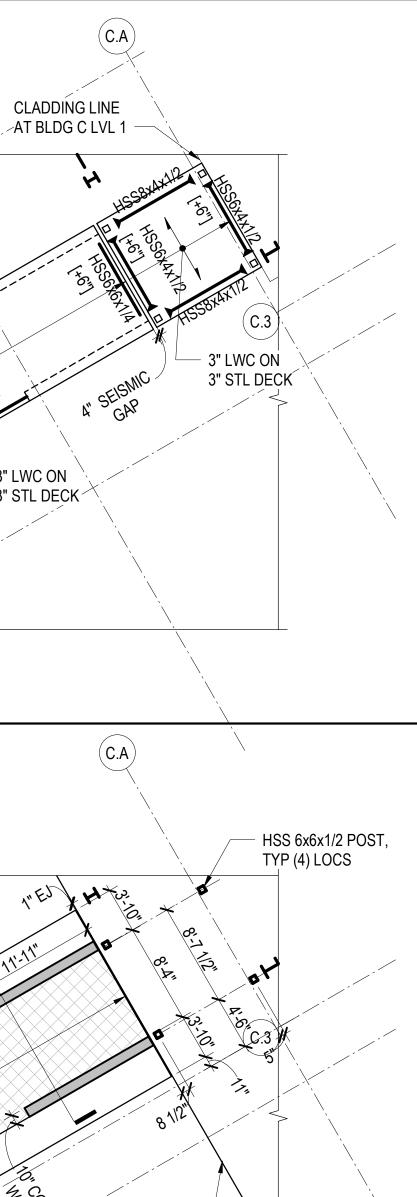
(21)-

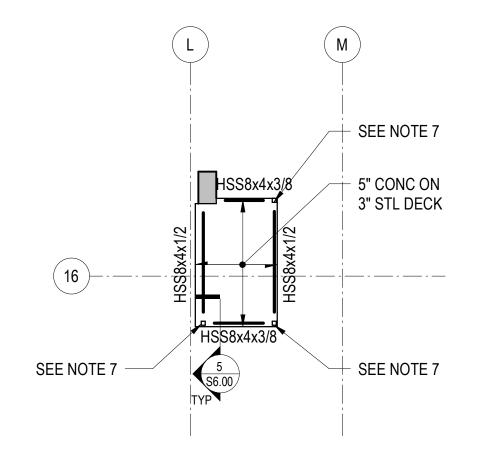
TOP OF HSS AND

C4 MEMBERS

TOWER B LEVEL 5: 8412'-0" TOWER B LEVEL 7: 8436'-6"







NOTES:

- 1. REFERENCE FLOOR ELEVATION IS 8340'-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 5 INCHES OF NORMALWEIGHT CONCRETE ON 3-INCH COMPOSITE STEEL DECK UNLESS NOTED OTHERWISE. REINFORCE PER SECTION ON PLAN. 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. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING SLABS AND WALLS
- 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.
- 6. 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.
- 7. WHERE NOTE APPLIES, HSS POST CONTINUES TO UNDERSIDE OF LEVEL P1 SLAB. PROVIDE "TYPICAL HSS POST TOP SLIP CONNECTION" AT UNDERSIDE OF SLAB ABOVE.

TYP AT HSS

SLAB EDGE

HSS10x4x1/4

HSS10x6x3/8

HSS10x4x3/8

TYP AT EDGE

HSS10x4x1/4

HSS10x4x1/4-

1. SEE RELEVANT PLANS FOR REFERENCE ELEVATION. TOP OF STEEL IS AT BOTTOM

STRUCTURAL SLAB IS 3-INCHES OF CONCRETE ON 3-INCH COMPOSITE STEEL DECK

UNLESS NOTED OTHERWISE. REINFORCE WITH WWR 6x6-W2.9xW2.9. SEE TYPICAL

REINFORCING SHOWN ON THE PLAN AND IN THE TYPICAL DETAILS IS IN ADDITION

SLAB ON STEEL DECK DETAILS FOR REINFORCING AND OTHER INFORMATION.

20 PARALLEL TO SLAB EDGE

- PT SLAB

PER PLAN

19 TYP AT HSS-TO-S6.06 SLAB-EDGE

PARTIAL PLAN - LOBBY SHUTTLE

8 ELEVATOR PIT 1/8" = 1'-0"

S6.06

NOTE 2

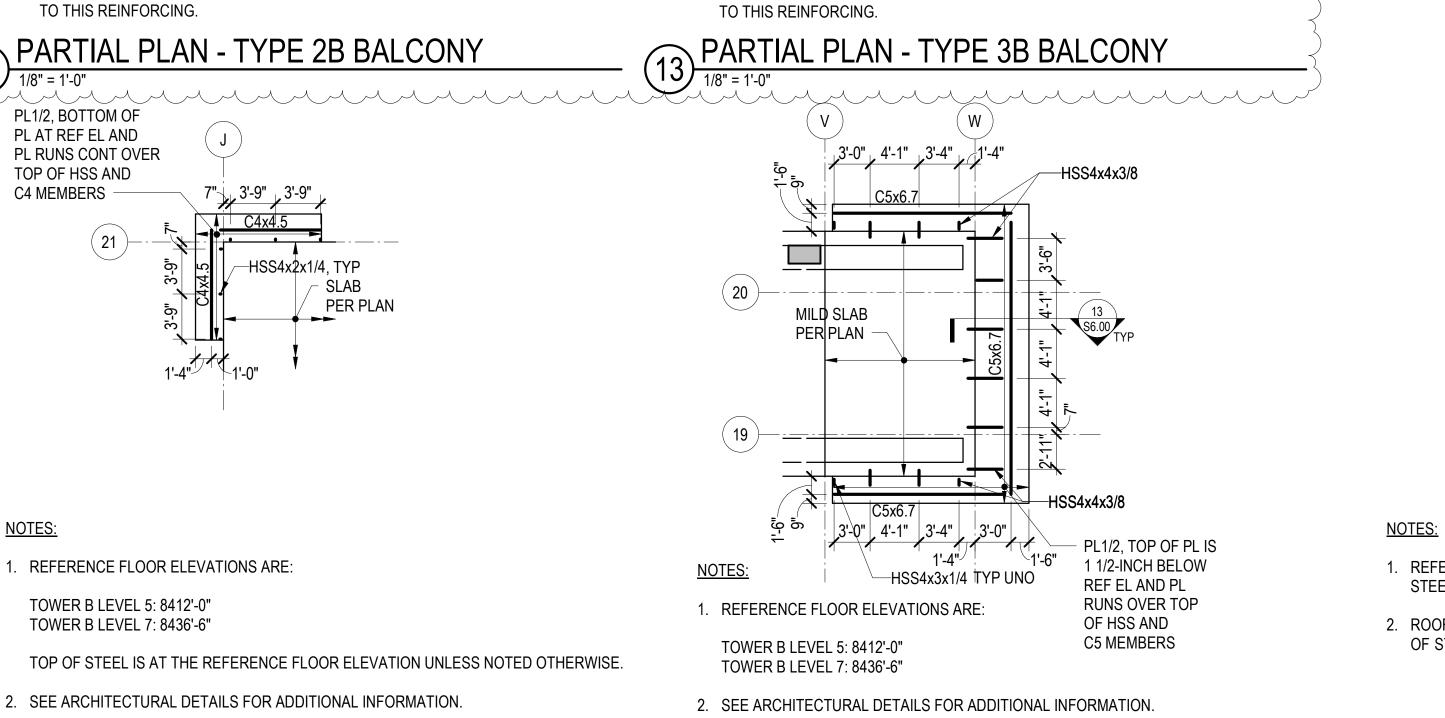
SIM, OPP S6.06

(17)

(16)-

〔15 〕

NOTES:



OF DECK UNLESS NOTED OTHERWISE

TO THIS REINFORCING.

NOTES: NOTED OTHERWISE. PARTIAL PLAN - NORTH CORE ELEV OVERRUN

<u>9</u><u>1/8" = 1'-0"</u>

(22)

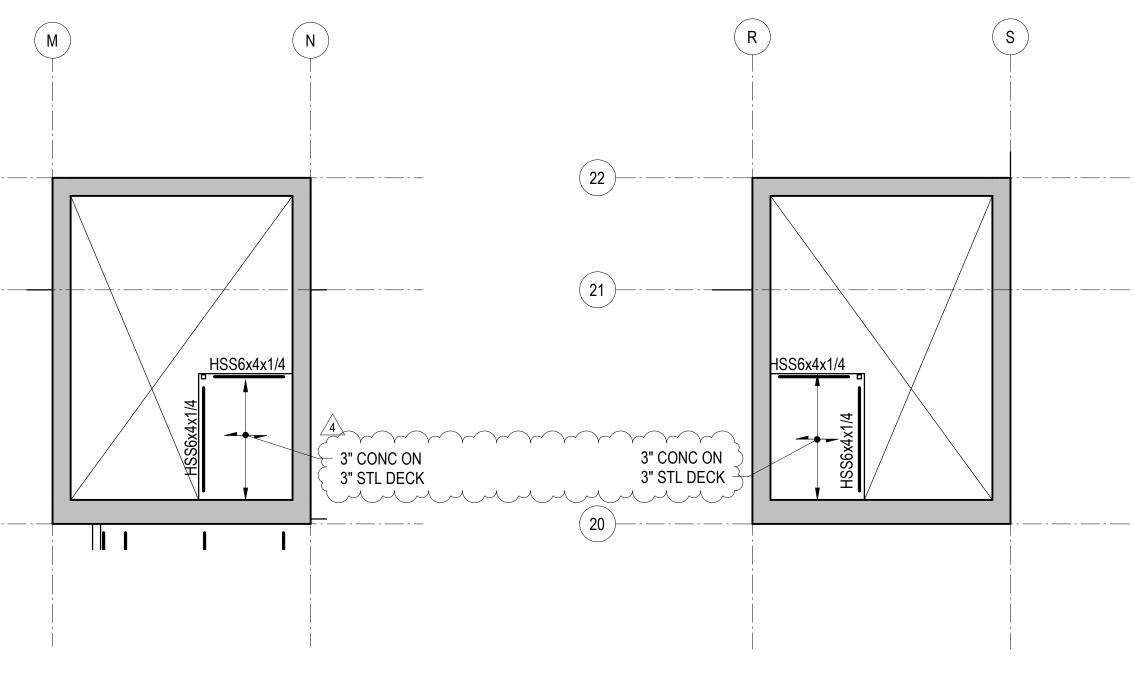
(21)

22

(21)

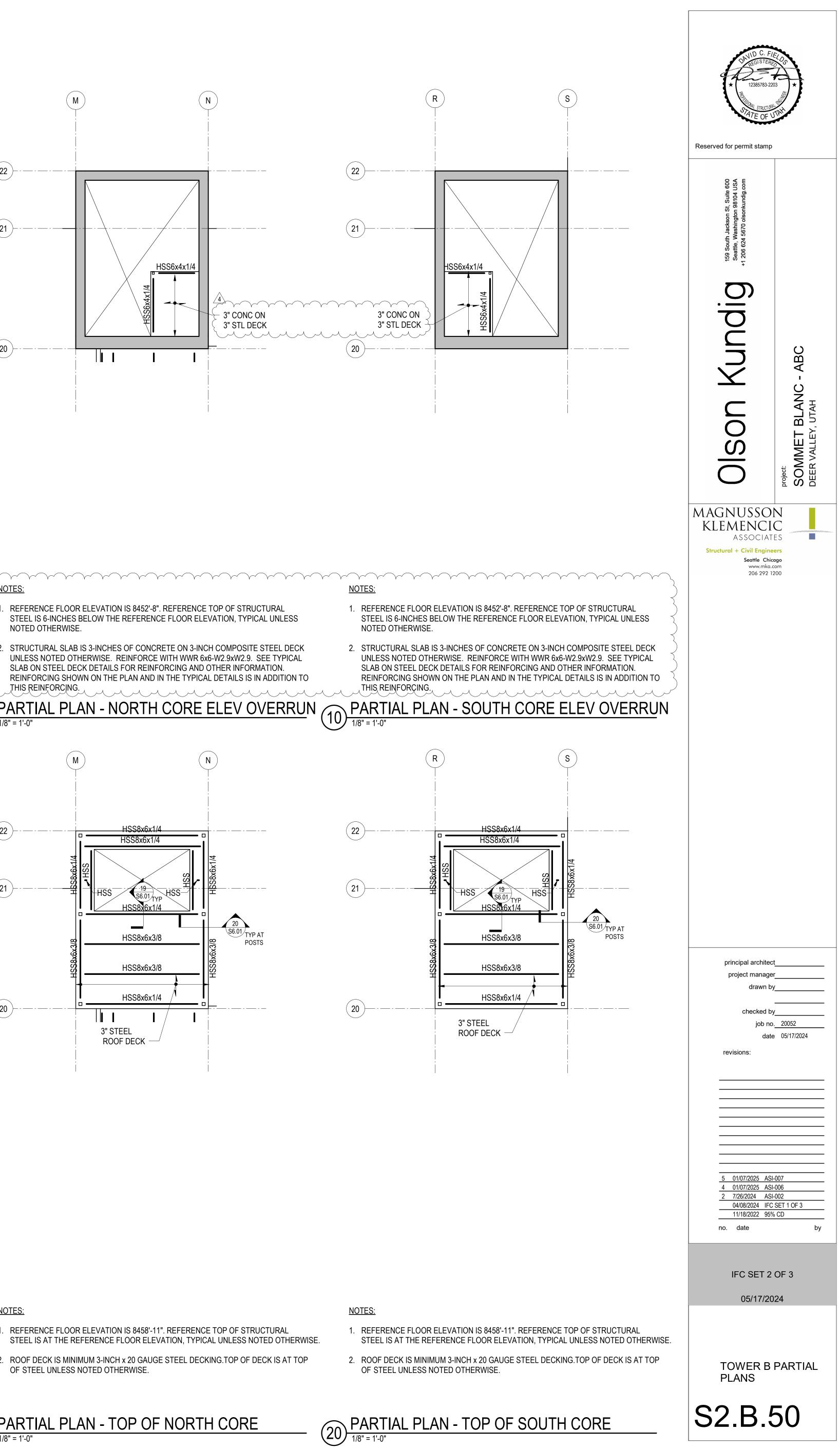
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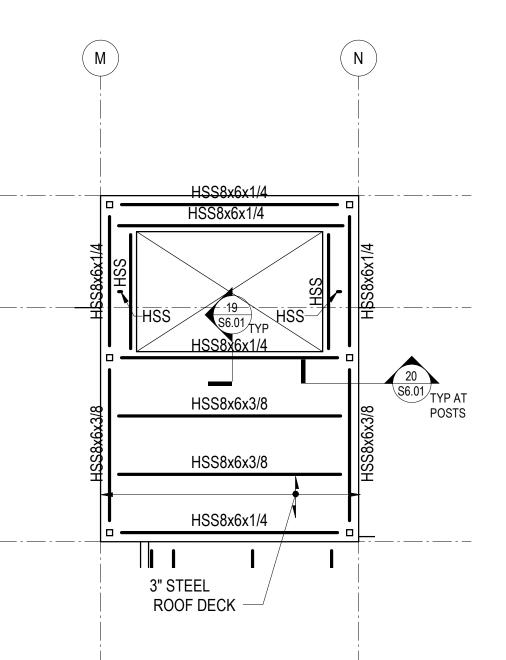
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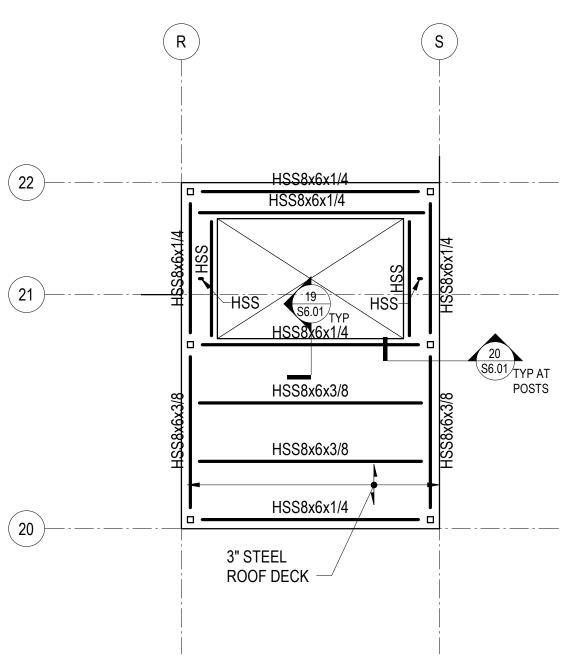


 REFERENCE FLOOR ELEVATION IS 8452'-8". REFERENCE TOP OF STRUCTURAL STEEL IS 6-INCHES BELOW THE REFERENCE FLOOR ELEVATION, TYPICAL UNLESS

STRUCTURAL SLAB IS 3-INCHES OF 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.



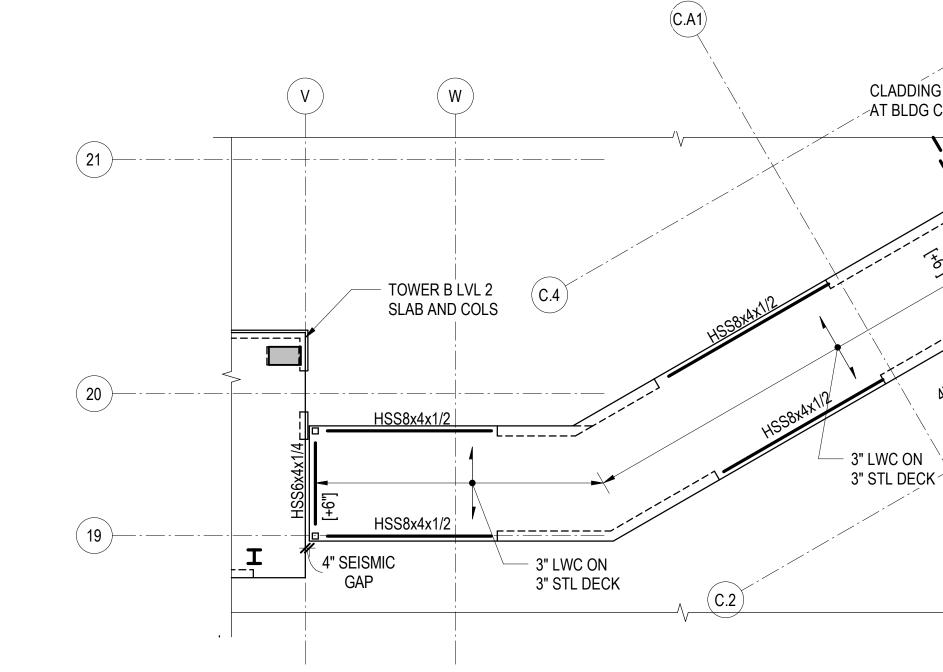


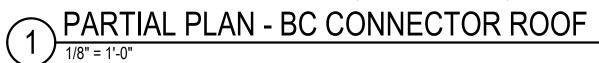


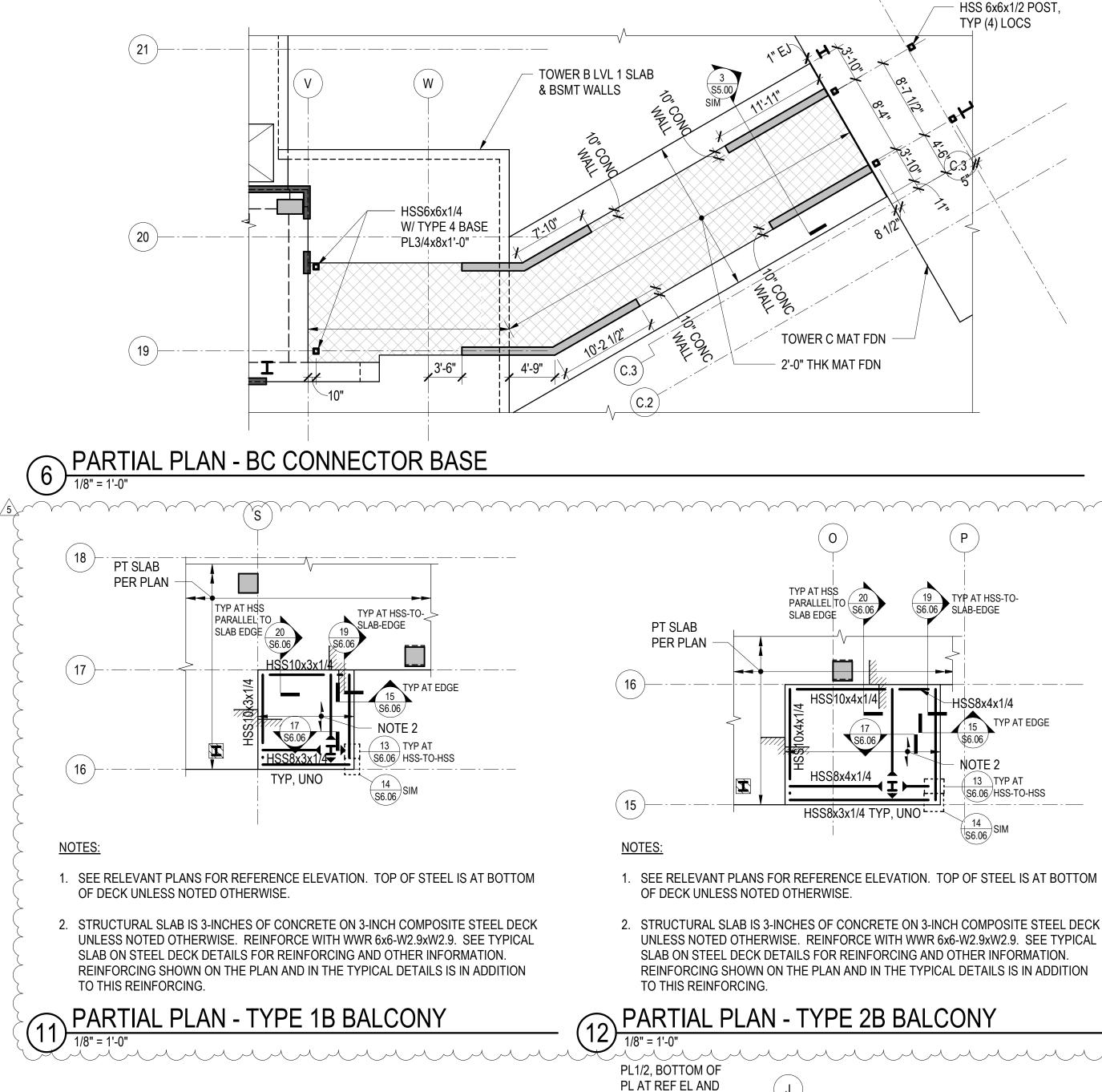
1. REFERENCE FLOOR ELEVATION IS 8458'-11". REFERENCE TOP OF STRUCTURAL STEEL IS AT THE REFERENCE FLOOR ELEVATION, TYPICAL UNLESS NOTED OTHERWISE 2. ROOF DECK IS MINIMUM 3-INCH x 20 GAUGE STEEL DECKING.TOP OF DECK IS AT TOP OF STEEL UNLESS NOTED OTHERWISE.

NOTES:

1. REFERENCE FLOOR ELEVATION IS 8458'-11". REFERENCE TOP OF STRUCTURAL







NOTES:

1. REFERENCE FLOOR ELEVATIONS ARE:

PL RUNS CONT OVER

(21)-

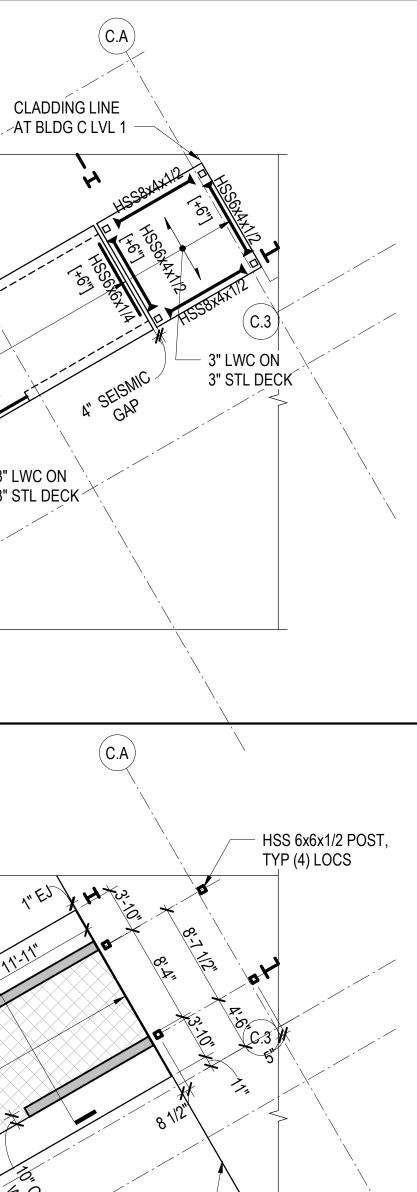
TOP OF HSS AND

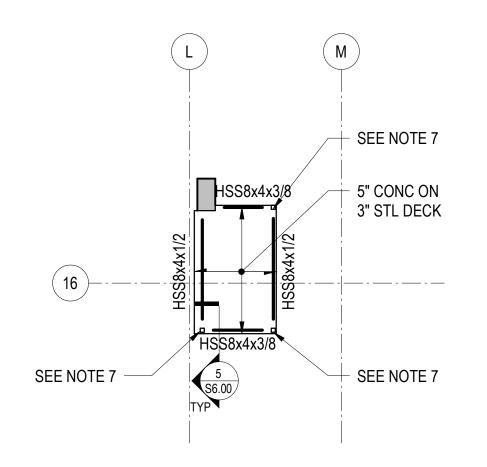
C4 MEMBERS

TOWER B LEVEL 5: 8412'-0" TOWER B LEVEL 7: 8436'-6"

2. SEE ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION.







NOTES:

- 1. REFERENCE FLOOR ELEVATION IS 8340'-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 5 INCHES OF NORMALWEIGHT CONCRETE ON 3-INCH COMPOSITE STEEL DECK UNLESS NOTED OTHERWISE. REINFORCE PER SECTION ON PLAN. 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. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING SLABS AND WALLS
- 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.
- 6. 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.
- 7. WHERE NOTE APPLIES, HSS POST CONTINUES TO UNDERSIDE OF LEVEL P1 SLAB. PROVIDE "TYPICAL HSS POST TOP SLIP CONNECTION" AT UNDERSIDE OF SLAB ABOVE.

TYP AT HSS

SLAB EDGE

HSS10x4x1/4

HSS10x6x3/8

HSS10x4x3/8

TYP AT EDGE

HSS10x4x1/4

HSS10x4x1/4-

1. SEE RELEVANT PLANS FOR REFERENCE ELEVATION. TOP OF STEEL IS AT BOTTOM

STRUCTURAL SLAB IS 3-INCHES OF CONCRETE ON 3-INCH COMPOSITE STEEL DECK

UNLESS NOTED OTHERWISE. REINFORCE WITH WWR 6x6-W2.9xW2.9. SEE TYPICAL

REINFORCING SHOWN ON THE PLAN AND IN THE TYPICAL DETAILS IS IN ADDITION

SLAB ON STEEL DECK DETAILS FOR REINFORCING AND OTHER INFORMATION.

20 PARALLEL TO SLAB EDGE

- PT SLAB

PER PLAN

19 TYP AT HSS-TO-S6.06 SLAB-EDGE

PARTIAL PLAN - LOBBY SHUTTLE

8 ELEVATOR PIT 1/8" = 1'-0"

S6.06

NOTE 2

OF DECK UNLESS NOTED OTHERWISE

TO THIS REINFORCING.

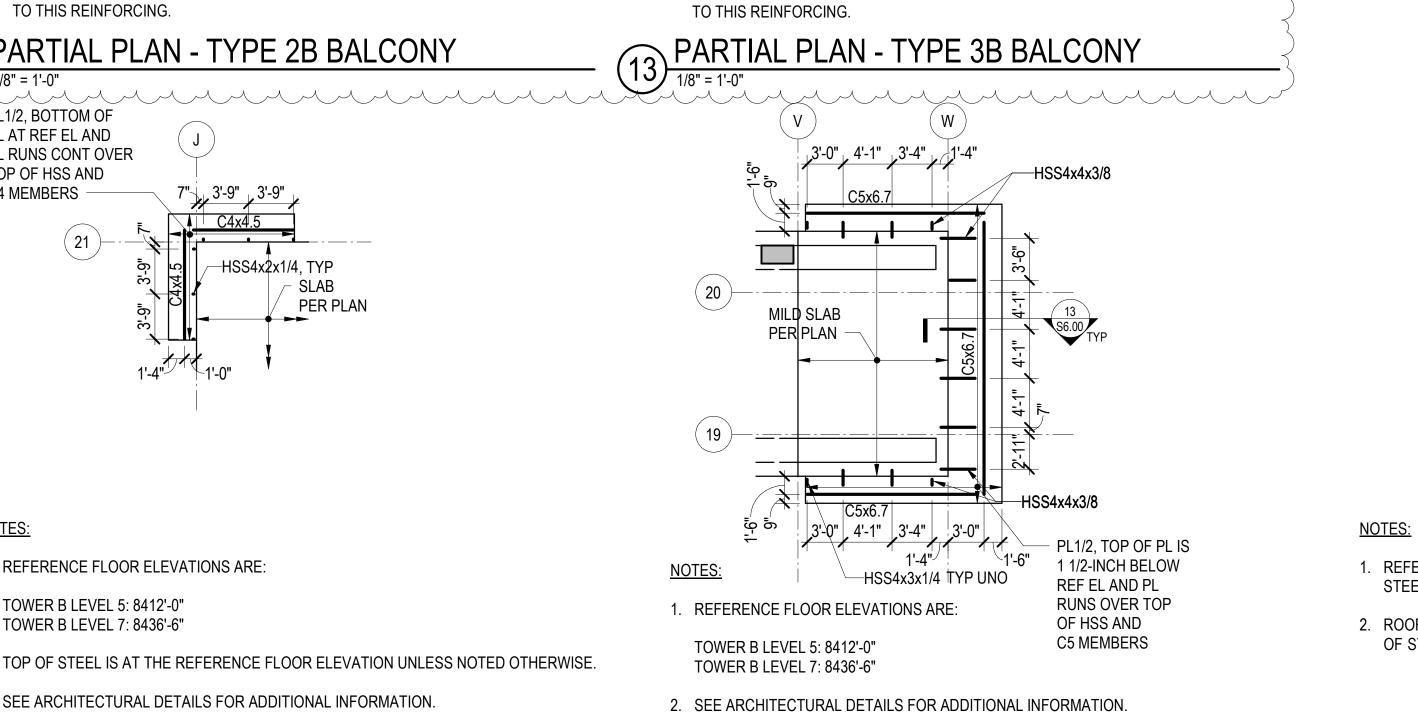
SIM, OPP S6.06

(17)

(16)-

〔15 〕

NOTES:

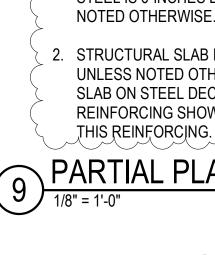


NOTES:

22

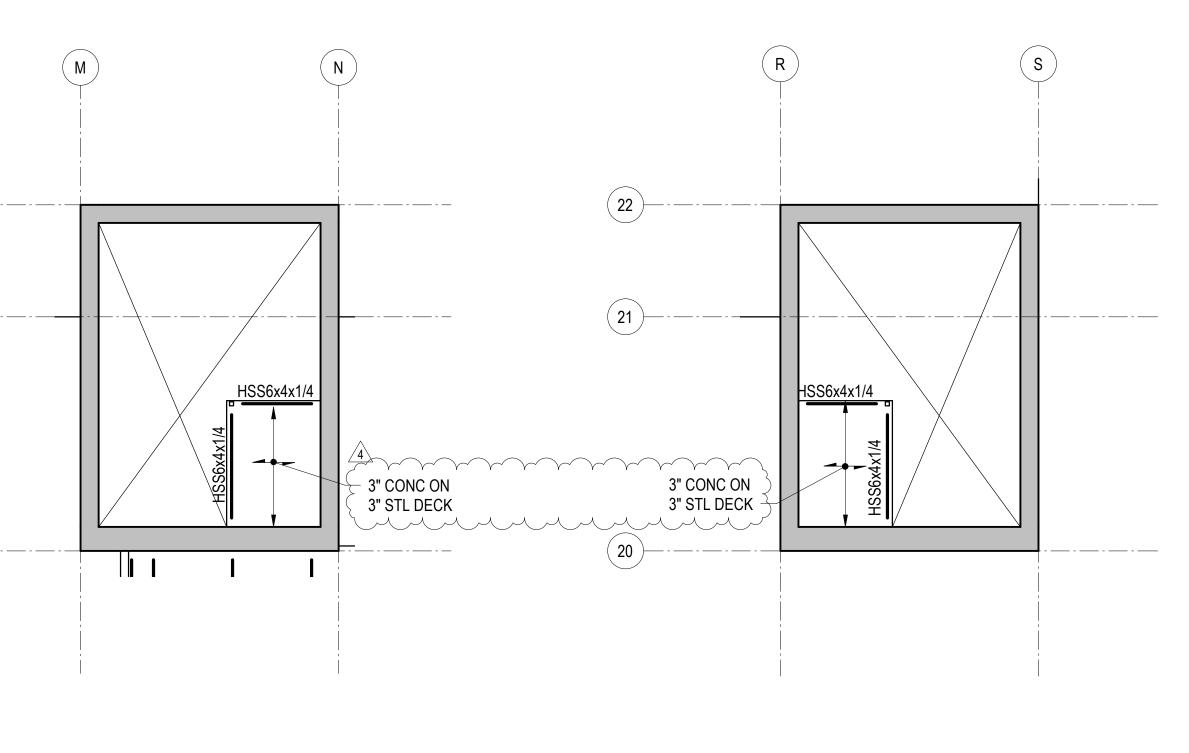
(21)

20





(22)



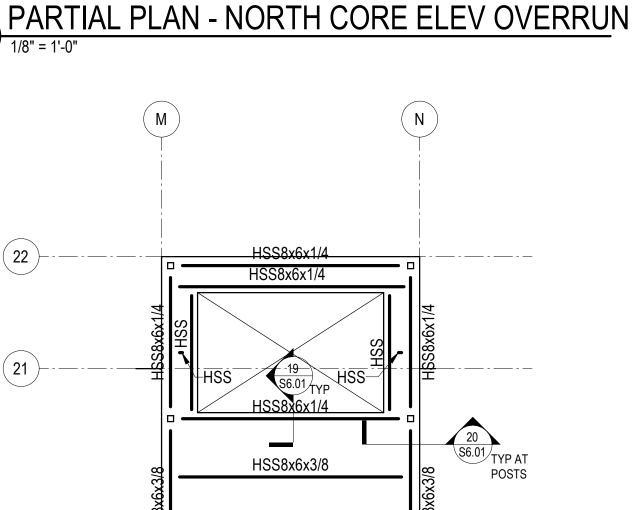
NOTES:

NOTED OTHERWISE.

THIS REINFORCING.

 REFERENCE FLOOR ELEVATION IS 8452'-8". REFERENCE TOP OF STRUCTURAL STEEL IS 6-INCHES BELOW THE REFERENCE FLOOR ELEVATION, TYPICAL UNLESS

STRUCTURAL SLAB IS 3-INCHES OF 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.

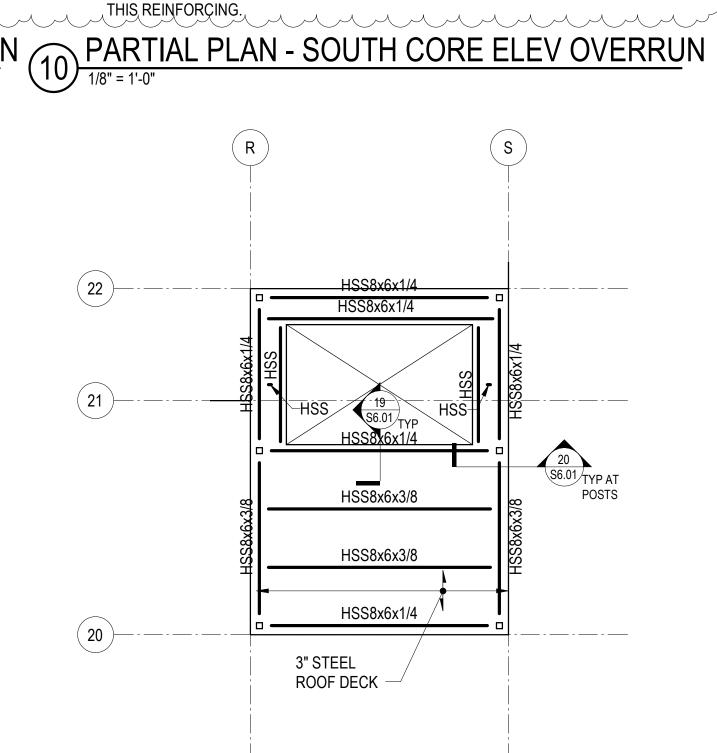


HSS8x6x3/8

HSS8x6x1/4

3" STEEL

ROOF DECK



1. REFERENCE FLOOR ELEVATION IS 8452'-8". REFERENCE TOP OF STRUCTURAL

SLAB ON STEEL DECK DETAILS FOR REINFORCING AND OTHER INFORMATION.

1. REFERENCE FLOOR ELEVATION IS 8458'-11". REFERENCE TOP OF STRUCTURAL STEEL IS AT THE REFERENCE FLOOR ELEVATION, TYPICAL UNLESS NOTED OTHERWISE 2. ROOF DECK IS MINIMUM 3-INCH x 20 GAUGE STEEL DECKING.TOP OF DECK IS AT TOP OF STEEL UNLESS NOTED OTHERWISE.

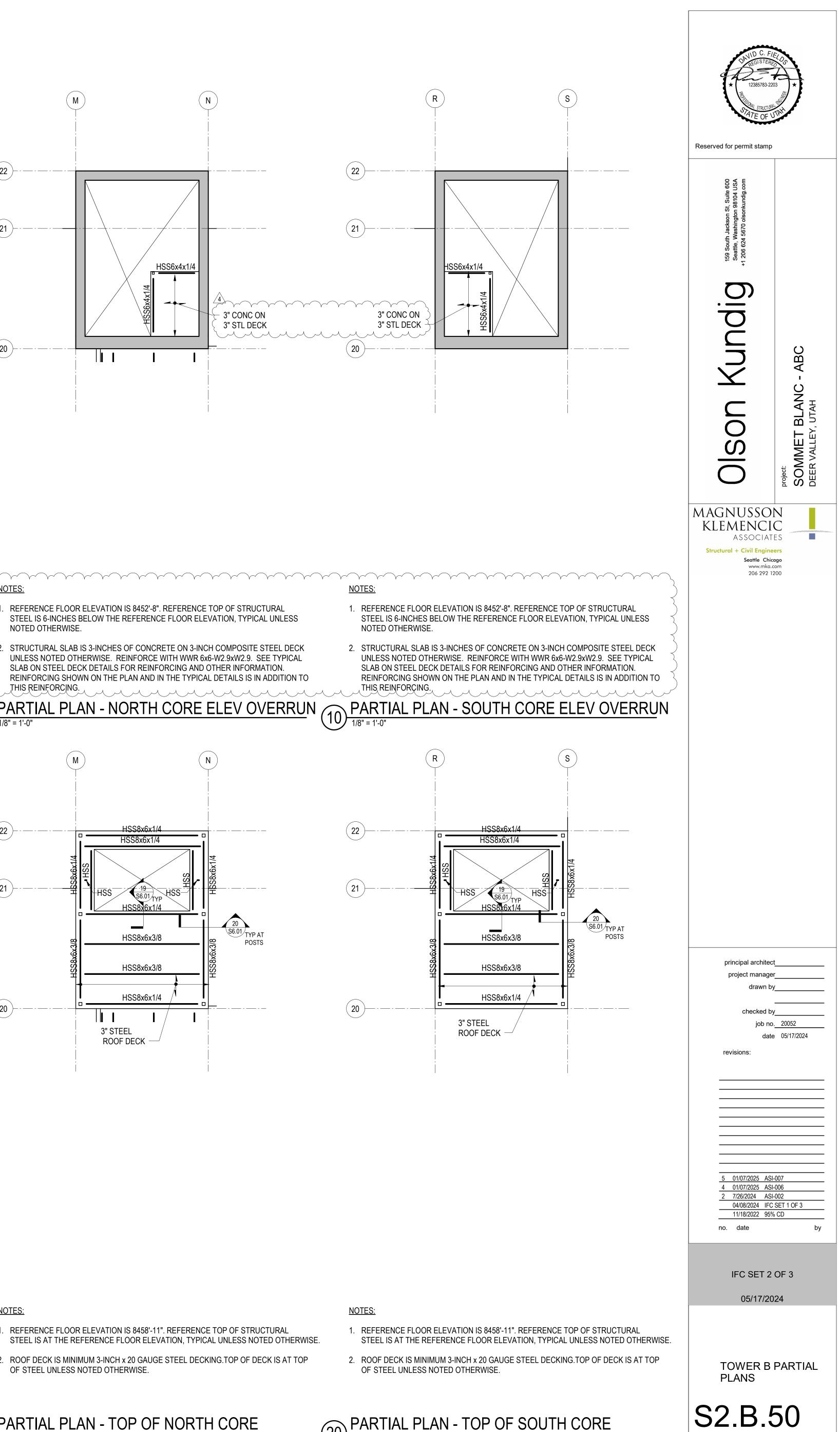
NOTES:

1. REFERENCE FLOOR ELEVATION IS 8458'-11". REFERENCE TOP OF STRUCTURAL STEEL IS AT THE REFERENCE FLOOR ELEVATION, TYPICAL UNLESS NOTED OTHERWISE.

2. ROOF DECK IS MINIMUM 3-INCH x 20 GAUGE STEEL DECKING.TOP OF DECK IS AT TOP OF STEEL UNLESS NOTED OTHERWISE.

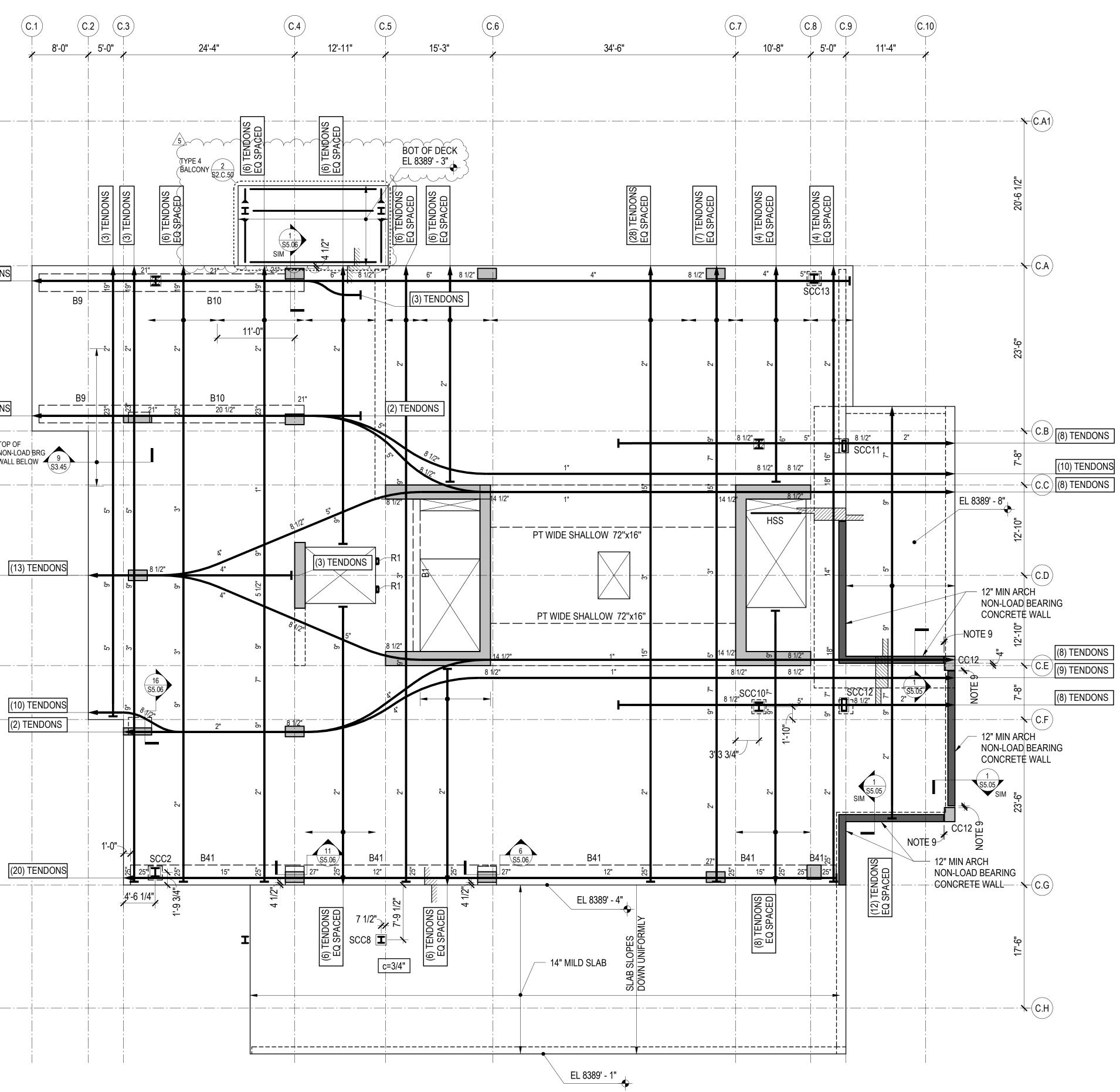
19 PARTIAL PLAN - TOP OF NORTH CORE





(C.1) (15) TENDONS (15) TENDONS TOP OF NON-LOAD BRG 9 WALL BELOW S3.45 (13) TENDONS (10) TENDONS (2) TENDONS ____·

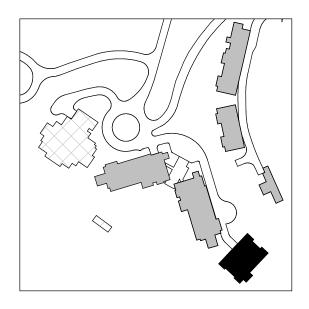
1 TOWER C - LEVEL 2 FRAMING PLAN



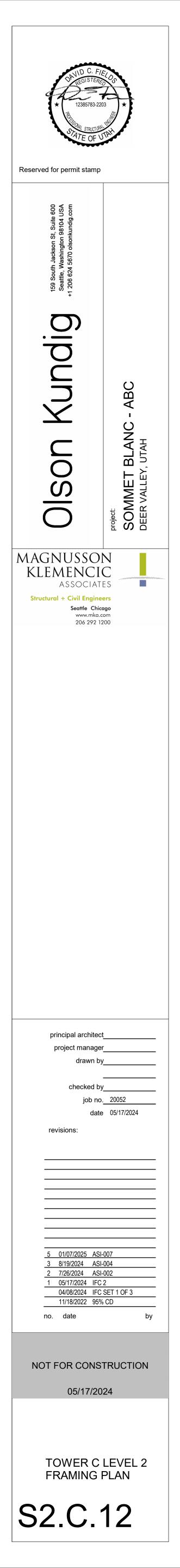
REFERENCE DRAWINGS

- 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 7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES
- 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.

- 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.







#5 @ 16" BOT

REINFORCING NOTES:

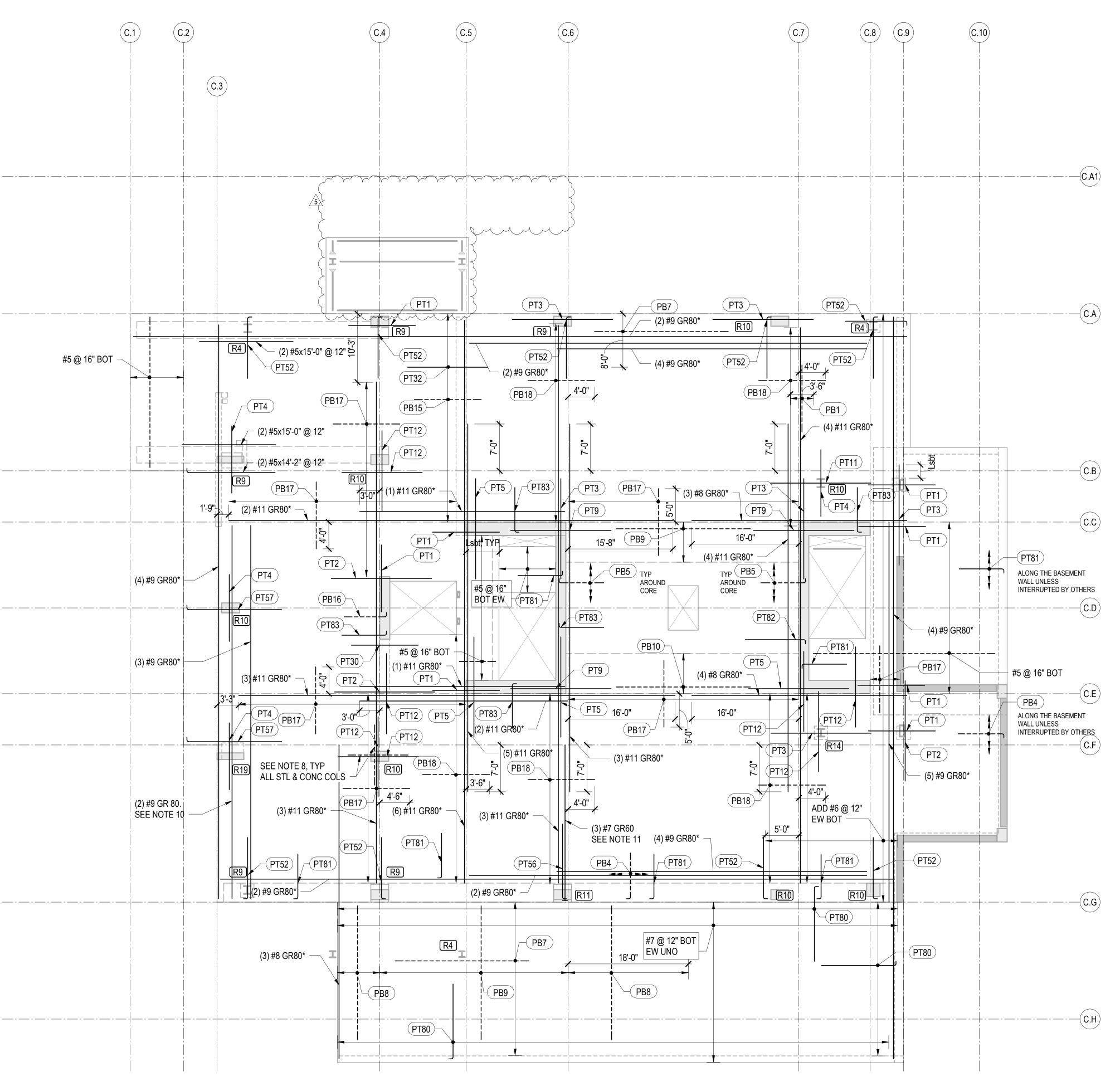
- 1. SEE "GENERAL NOTES" FOR REINFORCING REQUIREMENTS.
- 2. SEE "TYPICAL POST-TENSIONED SLAB DETAILS" FOR ADDITIONAL INFORMATION.

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

- . (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.
- 9. * 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.

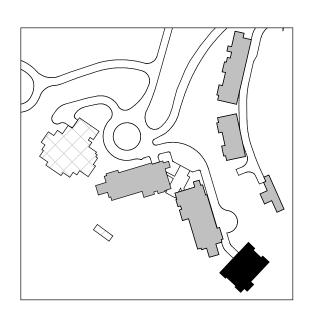
1 TOWER C - LEVEL 2 - REINFORCEMENT PLAN

- 10. 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 COLUMN NEAR GRID C.3/C.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.
- 11. WHERE NOTE APPLIES, REINFORCEMENT IS TO BE PLACED WITHIN VERTICALS OF COLUMN NEAR GRID C.6/C.G, WITH TERMINATOR AT SOUTH END. 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.

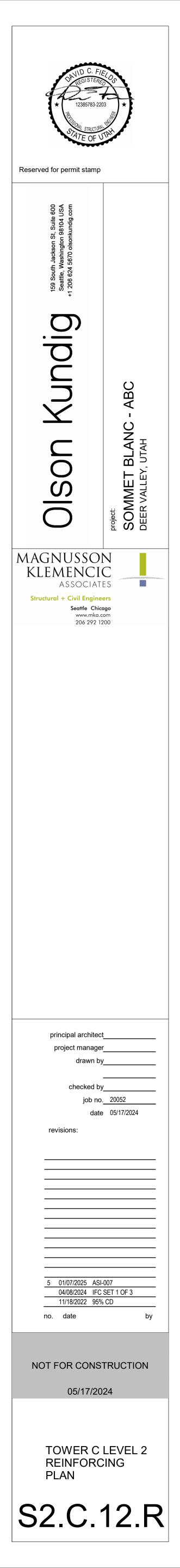


PT TC	P REINFORCEMENT	SCHEDULE
MARK	REINFORCING	REMARKS
PT1	(6) #5x10'-0"	
PT2	(6) #5x15'-0"	
PT3	(8) #5x15'-0"	
PT4	(12) #5x10'-0"	
PT5	(10) #5x15'-0"	
PT6	(18) #6x12'-0" @ 5"	STAGGER 3'-0"
PT7	(14) #5x10'-0"	
PT9	(14) #6x15'-0"	
PT11	(13) #6x15'-0"	
PT12	(10) #5x12'-0"	
PT30	#5x10'-0"@ 15"	
PT32	#6x12'-0"@ 6"	
PT50	(4) #5x6'-8"	HOOK AT END
PT51	(6) #5x6'-8"	HOOK AT END
PT52	(10) #5x9'-2"	HOOK AT END
PT54	(6) #5x14'-2"	HOOK AT END
PT56	(16) #5x11'-2"	HOOK AT END
PT57	(10) #5x14'-2"	HOOK AT END
PT60	(12) #5x9'-2"	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

РТ ВОТТ	PT BOTTOM REINFORCEMENT SCHEDULE	
MARK	REINFORCING	REMARKS
PB1	#5x10'-0" @ 6"	
PB4	#4x6'-10" @ 12"	HOOK AT END
PB5	#5x6'-8" @ 6"	HOOK AT END
PB7	#5x20'-0" @ 12"	
PB8	#7x20'-0" @ 12"	
PB9	#7x20'-0" @ 6"	
PB10	#6x20'-0" @ 6"	
PB13	#5x15'-0" @ 24"	
PB14	#5x15'-0" @ 12"	
PB15	#7x10'-0" @ 8"	
PB16	#7x6'-4" @ 8"	HOOK AT END
PB17	#5x10'-0" @ 12"	
PB18	#7x10'-0" @ 12"	







1 TOWER C - LEVEL 3 FRAMING PLAN

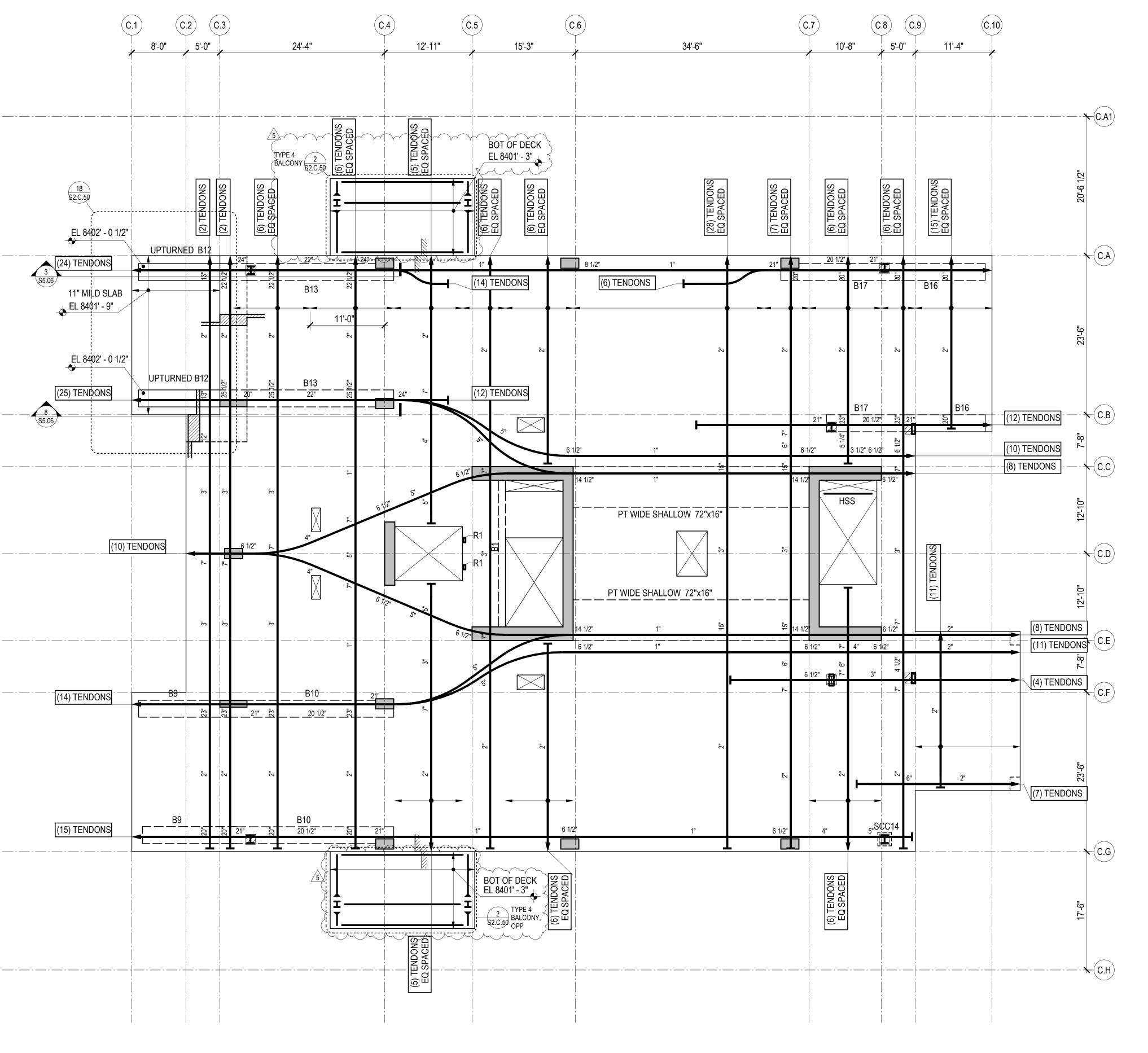
(15) TENDONS

(14) TENDONS

(25) TENDONS ______<u>8___</u>____

EL 8402' - 0 1/2"

(C.1) 18 \$2.C.50 EL 8402' - 0 1/2" 3 (24) TENDONS 3 (25.06 11" MILD SLAB EL 8401' - 9"

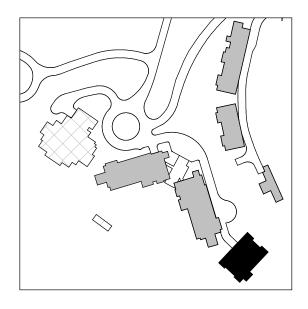


REFERENCE DRAWINGS

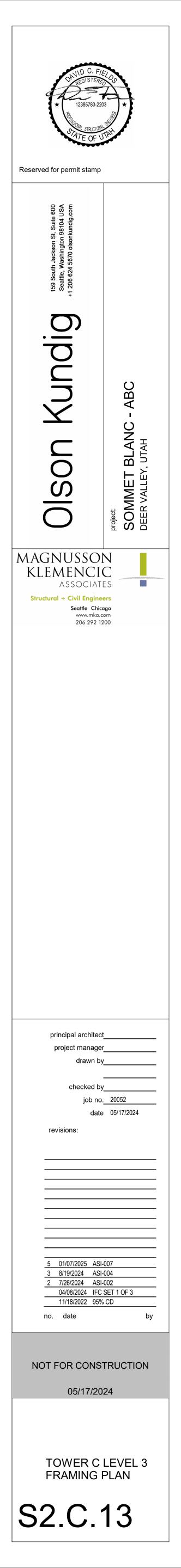
S1. S2. S3. S4. S5.	XX XX XX XX XX XX XX XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES LOAD DIAGRAMS PLANS ELEVATIONS TYPICAL DETAILS AND SCHEDULES CONCRETE SECTIONS AND DETAILS STEEL SECTIONS AND DETAILS
<u>N0</u>	TES:	
1.	IS 840	RENCE FLOOR ELEVATION IS 8402' - 6". TOP OF STRUCTURAL CONCRETE SLAB)2' - 5", UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR NAGE SLOPES NOT SHOWN.
2.	UNLES	CTURAL SLAB IS AN 8-INCH THICK UNBONDED POST-TENSIONED TWO-WAY SLAB SS NOTED OTHERWISE. SEE TYPICAL POST-TENSIONED SLAB DETAILS FOR TIONAL INFORMATION.
3.	DRAW	MINIMUM NUMBER OF REQUIRED POST-TENSIONING TENDONS IS SHOWN ON THE VINGS. FINAL COUNT, LAYOUT, AND LIVE END LOCATION IS PER DEFERRED GN-BUILD SUBMITTAL PROVIDED BY THE CONTRACTOR.
	0010	

- 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.







#5 @ 16" BOT

#5 @ 16" BOT

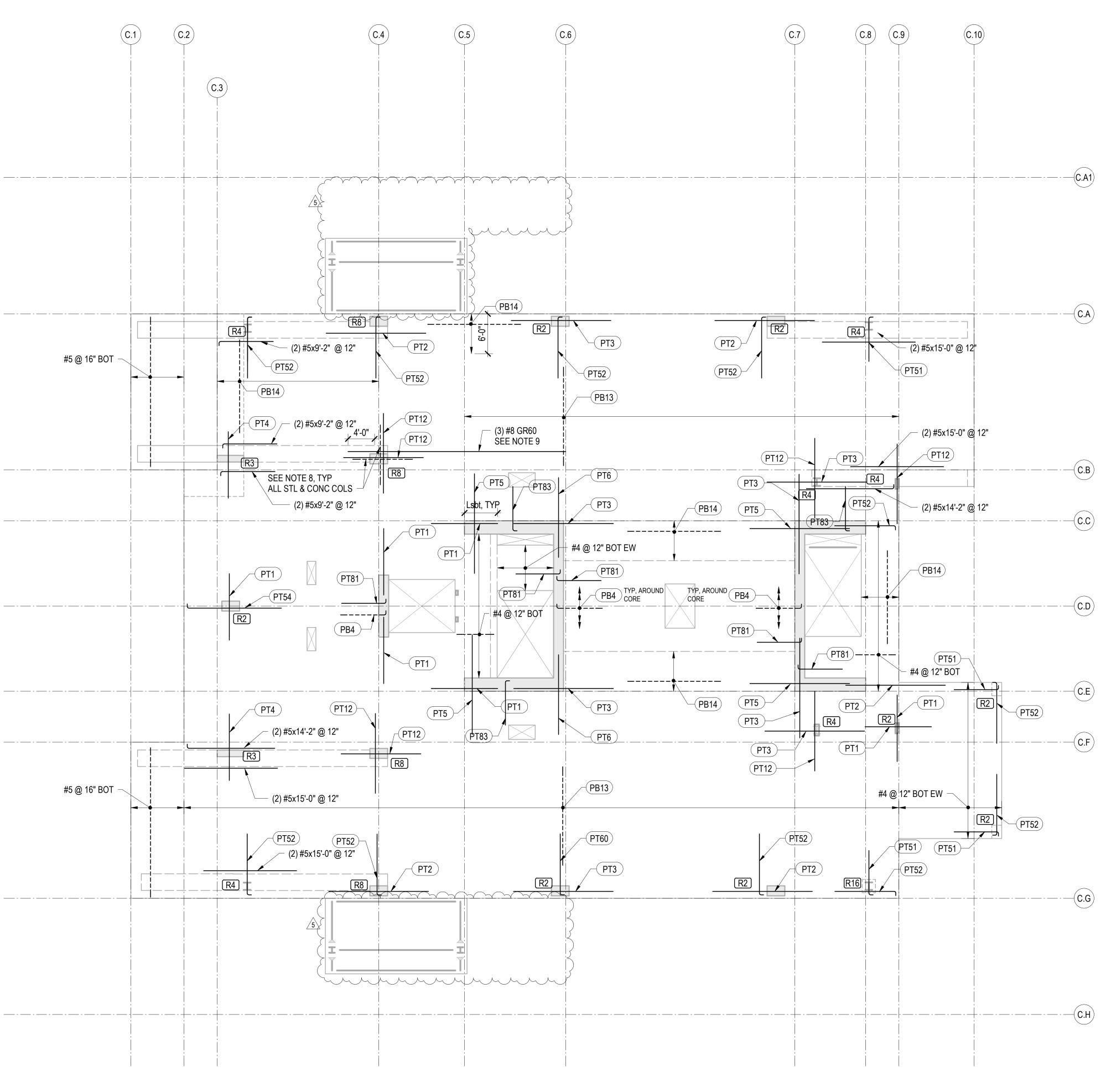
REINFORCING NOTES:

- 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.

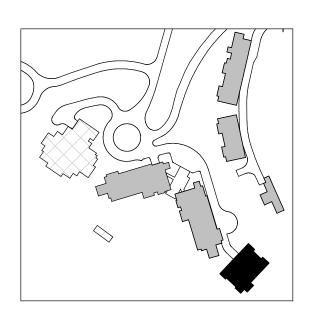
1 TOWER C - LEVEL 3 - REINFORCEMENT PLAN



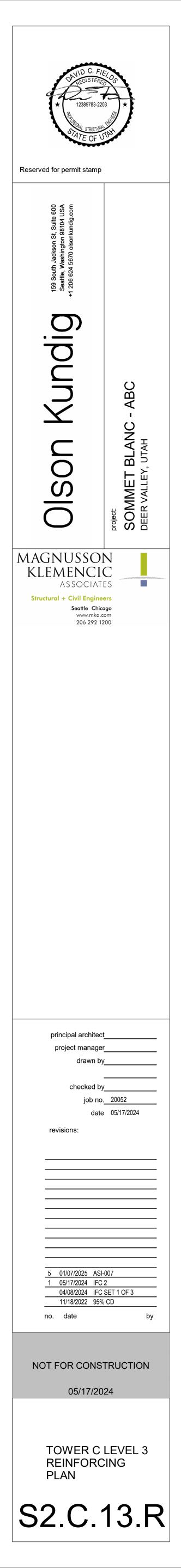
9. WHERE NOTE APPLIES, REINFORCEMENT IS TO BE PLACED WITHIN VERTICALS OF COLUMN NEAR GRID C.4/C.B. REINFORCEMENT SHALL BE CENTERED IN SLAB MID-DEPTH. REINFORCEMENT SHALL MEET CENTER-TO-CENTER SPACING OF 3db BUT NOT LESS THAN 3-INCHES, UNLESS NOTED OTHERWISE. LAP SPLICE IS NOT PERMITTED; PROVIDE MECHANICAL COUPLER IF NECESSARY.

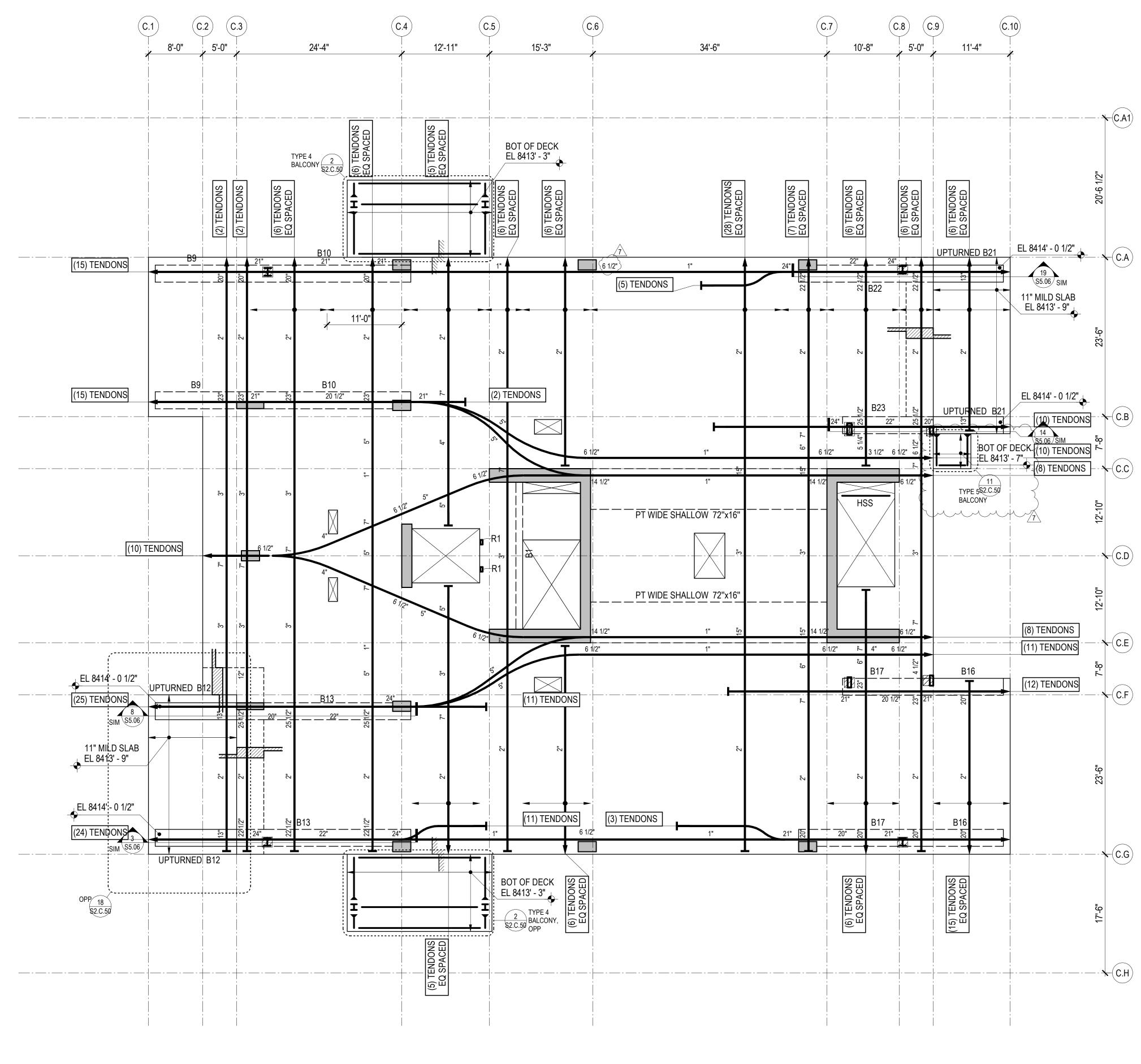
PT TC	OP REINFORCEMENT	SCHEDULE
MARK	REINFORCING	REMARKS
PT1	(6) #5x10'-0"	
PT2	(6) #5x15'-0"	
PT3	(8) #5x15'-0"	
PT4	(12) #5x10'-0"	
PT5	(10) #5x15'-0"	
PT6	(18) #6x12'-0" @ 5"	STAGGER 3'-0"
PT7	(14) #5x10'-0"	
PT9	(14) #6x15'-0"	
PT11	(13) #6x15'-0"	
PT12	(10) #5x12'-0"	
PT30	#5x10'-0"@ 15"	
PT32	#6x12'-0"@ 6"	
PT50	(4) #5x6'-8"	HOOK AT END
PT51	(6) #5x6'-8"	HOOK AT END
PT52	(10) #5x9'-2"	HOOK AT END
PT54	(6) #5x14'-2"	HOOK AT END
PT56	(16) #5x11'-2"	HOOK AT END
PT57	(10) #5x14'-2"	HOOK AT END
PT60	(12) #5x9'-2"	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

PT BOT	T BOTTOM REINFORCEMENT SCHEDULE	
MARK	REINFORCING	REMARKS
PB1	#5x10'-0" @ 6"	
PB4	#4x6'-10" @ 12"	HOOK AT END
PB5	#5x6'-8" @ 6"	HOOK AT END
PB7	#5x20'-0" @ 12"	
PB8	#7x20'-0" @ 12"	
PB9	#7x20'-0" @ 6"	
PB10	#6x20'-0" @ 6"	
PB13	#5x15'-0" @ 24"	
PB14	#5x15'-0" @ 12"	
PB15	#7x10'-0" @ 8"	
PB16	#7x6'-4" @ 8"	HOOK AT END
PB17	#5x10'-0" @ 12"	
PB18	#7x10'-0" @ 12"	







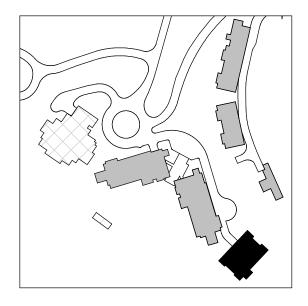


1 TOWER C - LEVEL 4 FRAMING PLAN

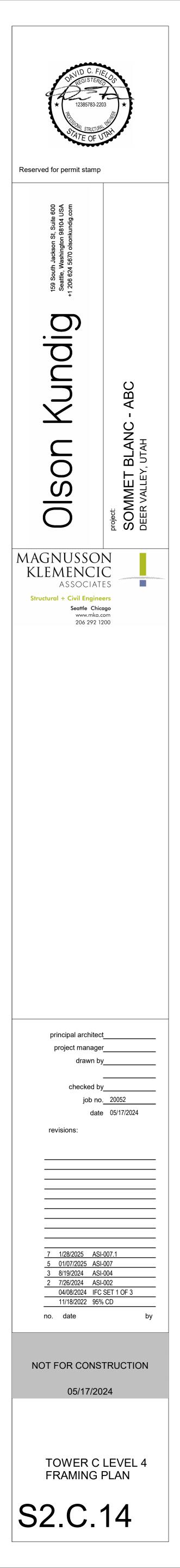
REFERENCE DRAWINGS

- 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 7. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF 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.

- CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, AND EDGE ANGLES, REINFORCE PER THE TYPICAL DETAILS.
- . 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.







#5 @ 16" BOT

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#5 @ 16" BOT

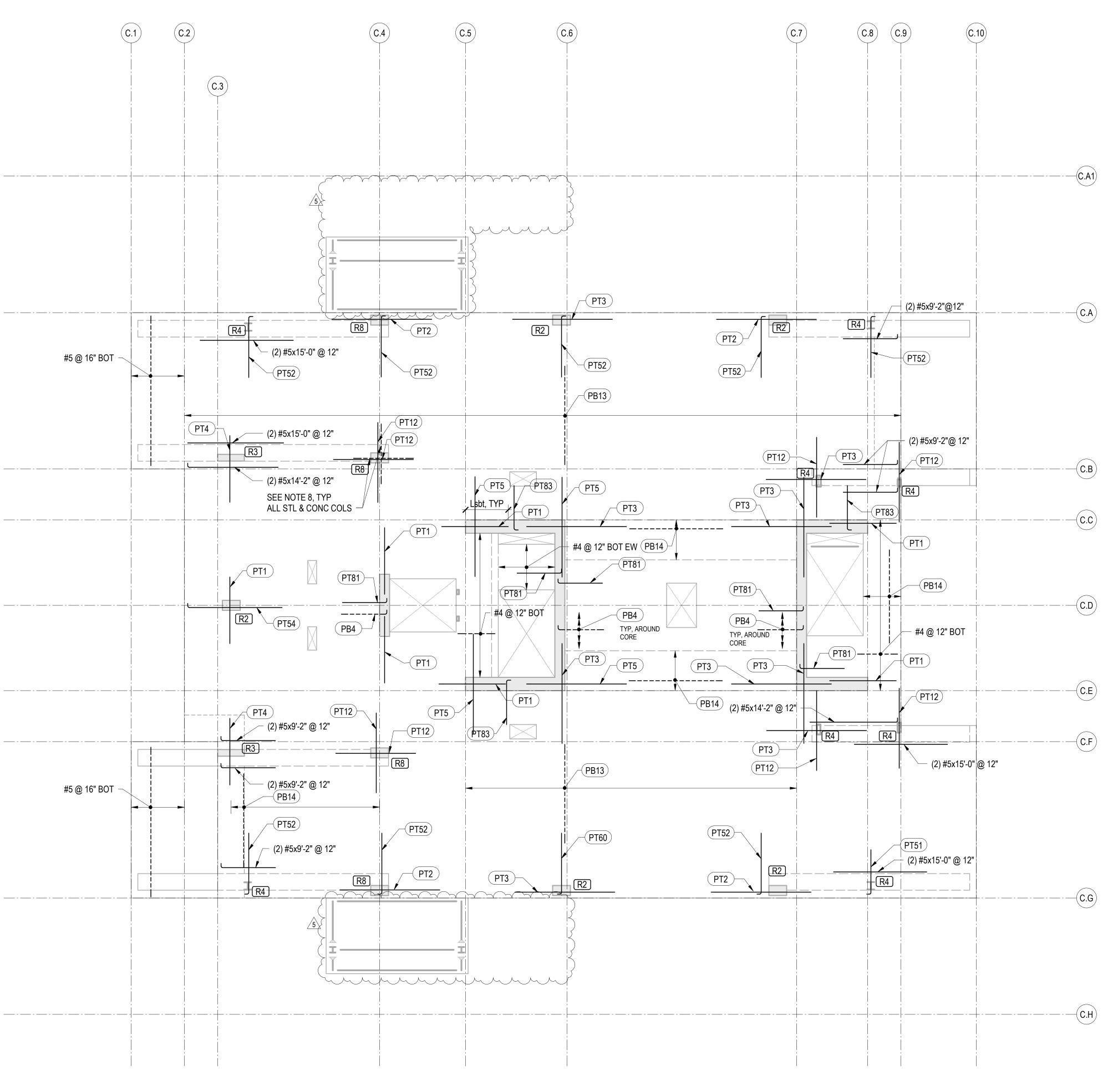
REINFORCING NOTES:

- 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

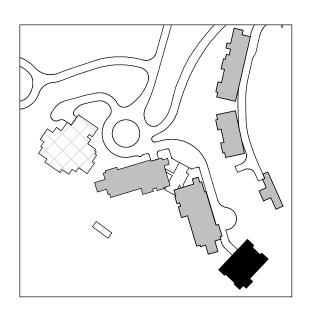
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- 8. PROVIDE INTEGRITY BOTTOM BARS PER STUD RAIL SCHEDULE AT ALL COLUMNS. CENTER REINFORCEMENT ON COLUMNS AND PLACE INTEGRITY BARS EACH WAY WITHIN COLUMN VERTICAL REINFORCEMENT. TRIM AND HOOK AT SLAB EDGE AS REQUIRED.



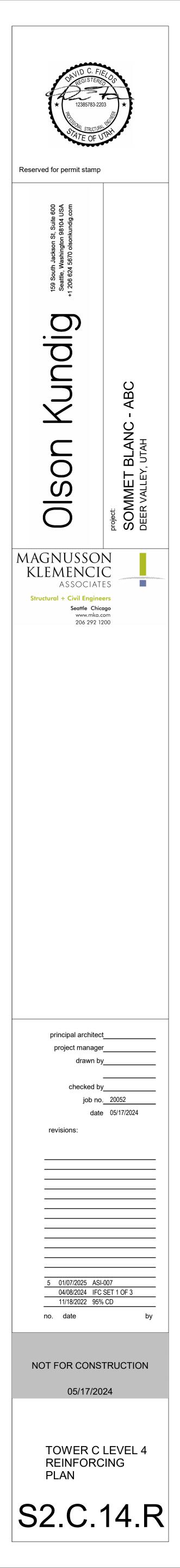


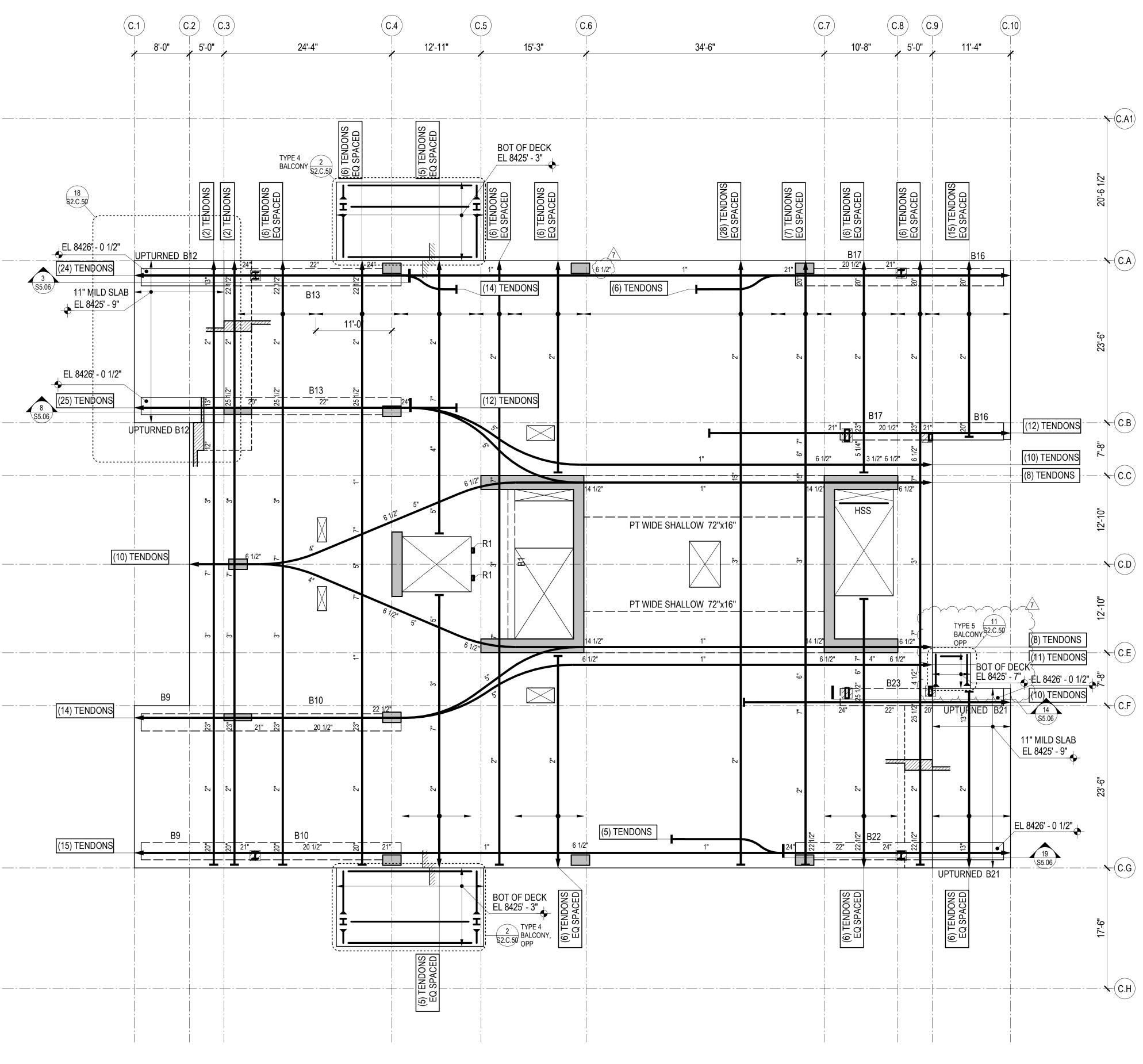
PT TOP REINFORCEMENT SCHEDULE		
MARK	REINFORCING	REMARKS
PT1	(6) #5x10'-0"	
PT2	(6) #5x15'-0"	
PT3	(8) #5x15'-0"	
PT4	(12) #5x10'-0"	
PT5	(10) #5x15'-0"	
PT6	(18) #6x12'-0" @ 5"	STAGGER 3'-0"
PT7	(14) #5x10'-0"	
PT9	(14) #6x15'-0"	
PT11	(13) #6x15'-0"	
PT12	(10) #5x12'-0"	
PT30	#5x10'-0"@ 15"	
PT32	#6x12'-0"@ 6"	
PT50	(4) #5x6'-8"	HOOK AT END
PT51	(6) #5x6'-8"	HOOK AT END
PT52	(10) #5x9'-2"	HOOK AT END
PT54	(6) #5x14'-2"	HOOK AT END
PT56	(16) #5x11'-2"	HOOK AT END
PT57	(10) #5x14'-2"	HOOK AT END
PT60	(12) #5x9'-2"	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

PT BOTTOM REINFORCEMENT SCHEDULE										
MARK	REINFORCING	REMARKS								
PB1	#5x10'-0" @ 6"									
PB4	#4x6'-10" @ 12"	HOOK AT END								
PB5	#5x6'-8" @ 6"	HOOK AT END								
PB7	#5x20'-0" @ 12"									
PB8	#7x20'-0" @ 12"									
PB9	#7x20'-0" @ 6"									
PB10	#6x20'-0" @ 6"									
PB13	#5x15'-0" @ 24"									
PB14	#5x15'-0" @ 12"									
PB15	#7x10'-0" @ 8"									
PB16	#7x6'-4" @ 8"	HOOK AT END								
PB17	#5x10'-0" @ 12"									
PB18	#7x10'-0" @ 12"									







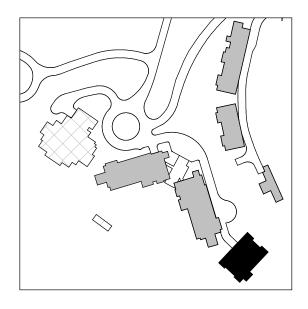


1 TOWER C - LEVEL 5 FRAMING PLAN

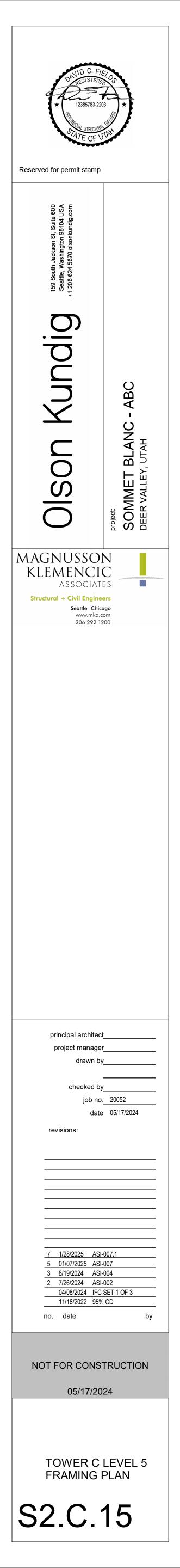
REFERENCE DRAWINGS

- 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.
- . 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.







#5 @ 16" BOT

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#5 @ 16" BOT

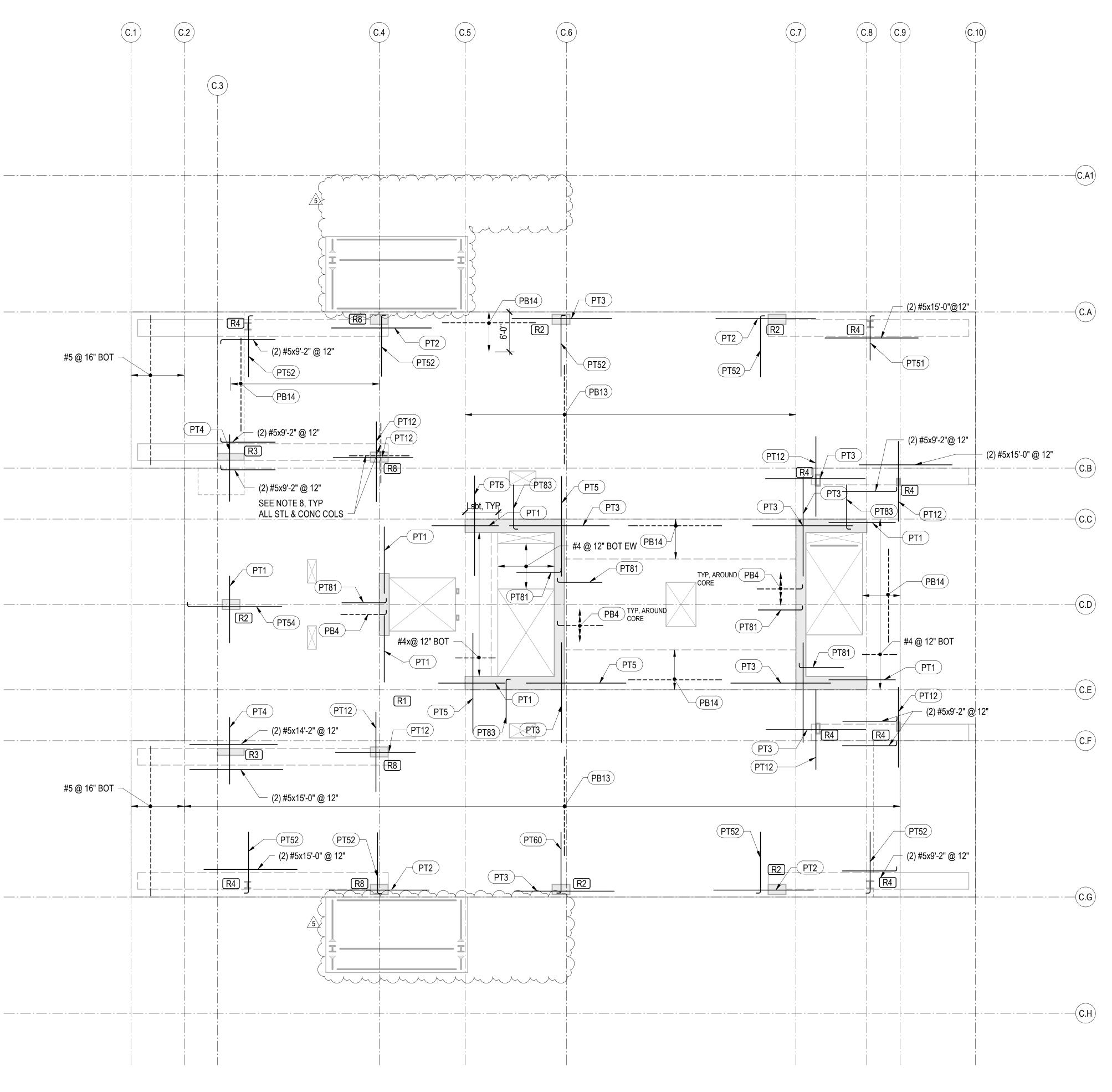
REINFORCING NOTES:

- 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

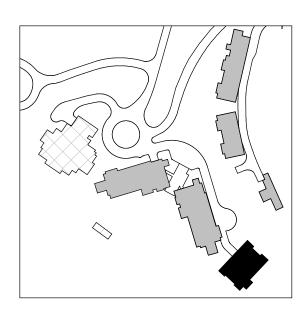
- 4. (RX) INDICATES STUD RAIL. STUD RAILS SHALL BE PLACED AT ALL COLUMNS. SEE "TYPICAL STUD RAIL REINFORCEMENT AT COLUMNS" DETAIL AND STUD RAIL SCHEDULE.
- 5. SEE "TYPICAL CONCRETE OPENINGS AND EMBEDMENTS" FOR ADDITIONAL REINFORCEMENT REQUIREMENTS. NOTIFY STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN 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.

1 TOWER C - LEVEL 5 - REINFORCEMENT PLAN

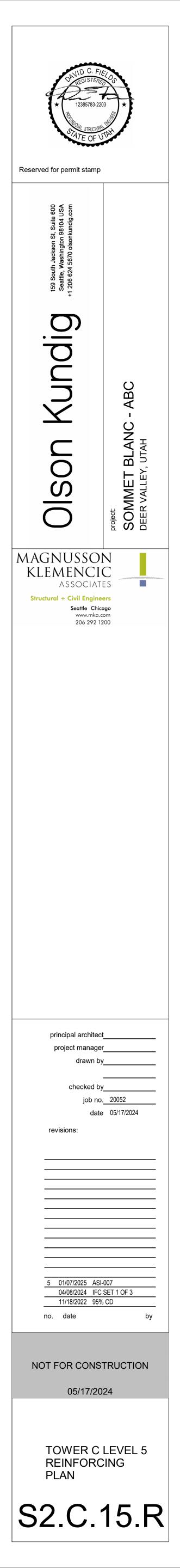


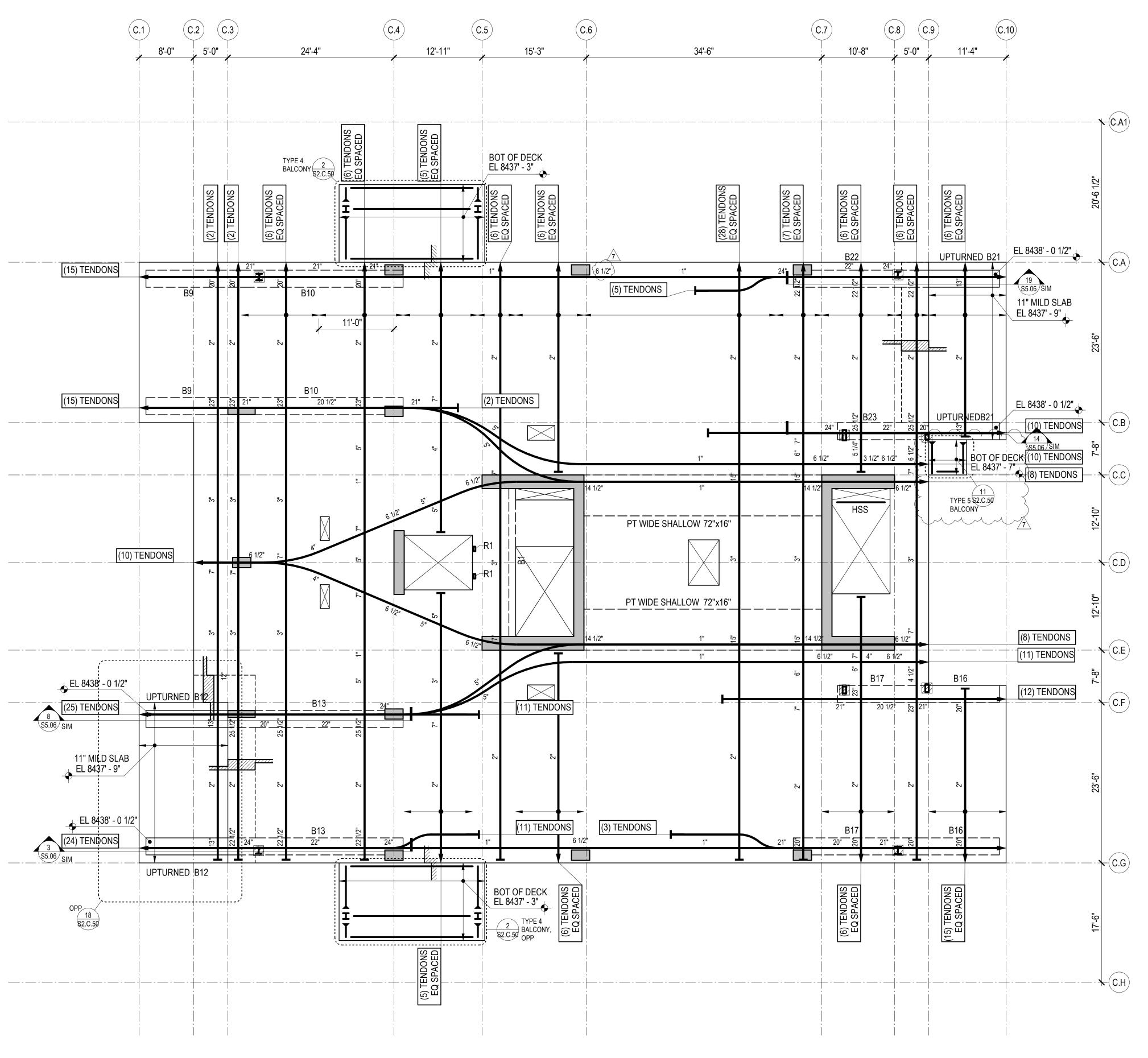
PT TOP REINFORCEMENT SCHEDULE								
MARK	REINFORCING	REMARKS						
PT1	(6) #5x10'-0"							
PT2	(6) #5x15'-0"							
PT3	(8) #5x15'-0"							
PT4	(12) #5x10'-0"							
PT5	(10) #5x15'-0"							
PT6	(18) #6x12'-0" @ 5"	STAGGER 3'-0"						
PT7	(14) #5x10'-0"							
PT9	(14) #6x15'-0"							
PT11	(13) #6x15'-0"							
PT12	(10) #5x12'-0"							
PT30	#5x10'-0"@ 15"							
PT32	#6x12'-0"@ 6"							
PT50	(4) #5x6'-8"	HOOK AT END						
PT51	(6) #5x6'-8"	HOOK AT END						
PT52	(10) #5x9'-2"	HOOK AT END						
PT54	(6) #5x14'-2"	HOOK AT END						
PT56	(16) #5x11'-2"	HOOK AT END						
PT57	(10) #5x14'-2"	HOOK AT END						
PT60	(12) #5x9'-2"	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						

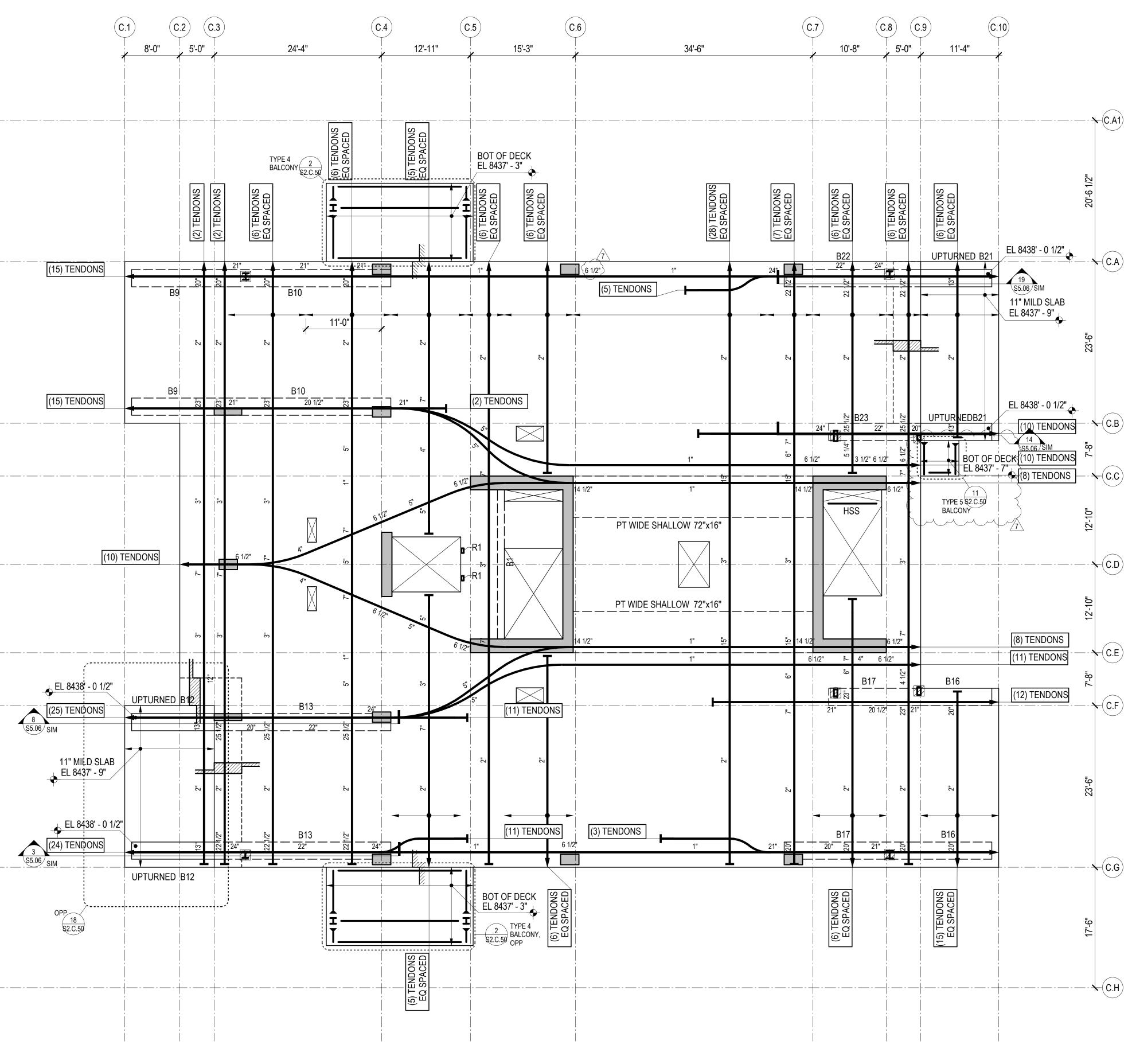
PT BOTTOM REINFORCEMENT SCHEDULE									
MARK	REINFORCING	REMARKS							
PB1	#5x10'-0" @ 6"								
PB4	#4x6'-10" @ 12"	HOOK AT END							
PB5	#5x6'-8" @ 6"	HOOK AT END							
PB7	#5x20'-0" @ 12"								
PB8	#7x20'-0" @ 12"								
PB9	#7x20'-0" @ 6"								
PB10	#6x20'-0" @ 6"								
PB13	#5x15'-0" @ 24"								
PB14	#5x15'-0" @ 12"								
PB15	#7x10'-0" @ 8"								
PB16	#7x6'-4" @ 8"	HOOK AT END							
PB17	#5x10'-0" @ 12"								
PB18	#7x10'-0" @ 12"								











1 TOWER C - LEVEL 6 FRAMING PLAN

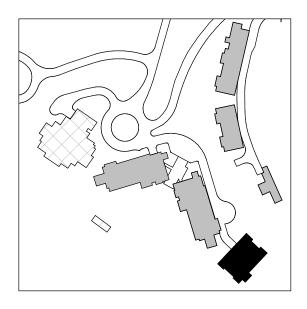
REFERENCE DRAWINGS

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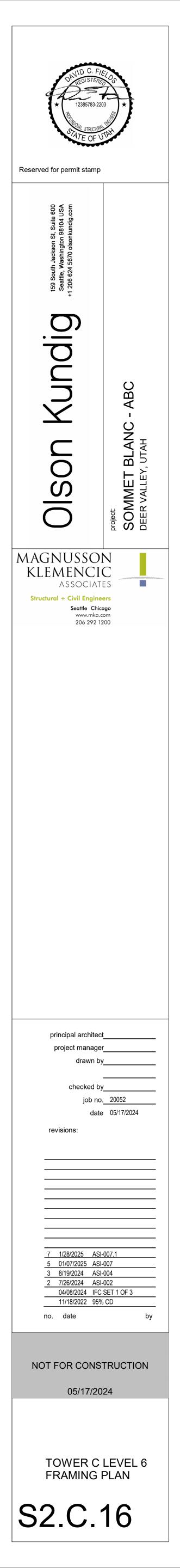
NOTES:

- 1. REFERENCE FLOOR ELEVATION IS 8438' 6". TOP OF STRUCTURAL CONCRETE SLAB 7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES 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.

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- 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.







#5 @ 16" BOT

- ____ - ___ - ___ - ___ - ___

#5 @ 16" BOT -

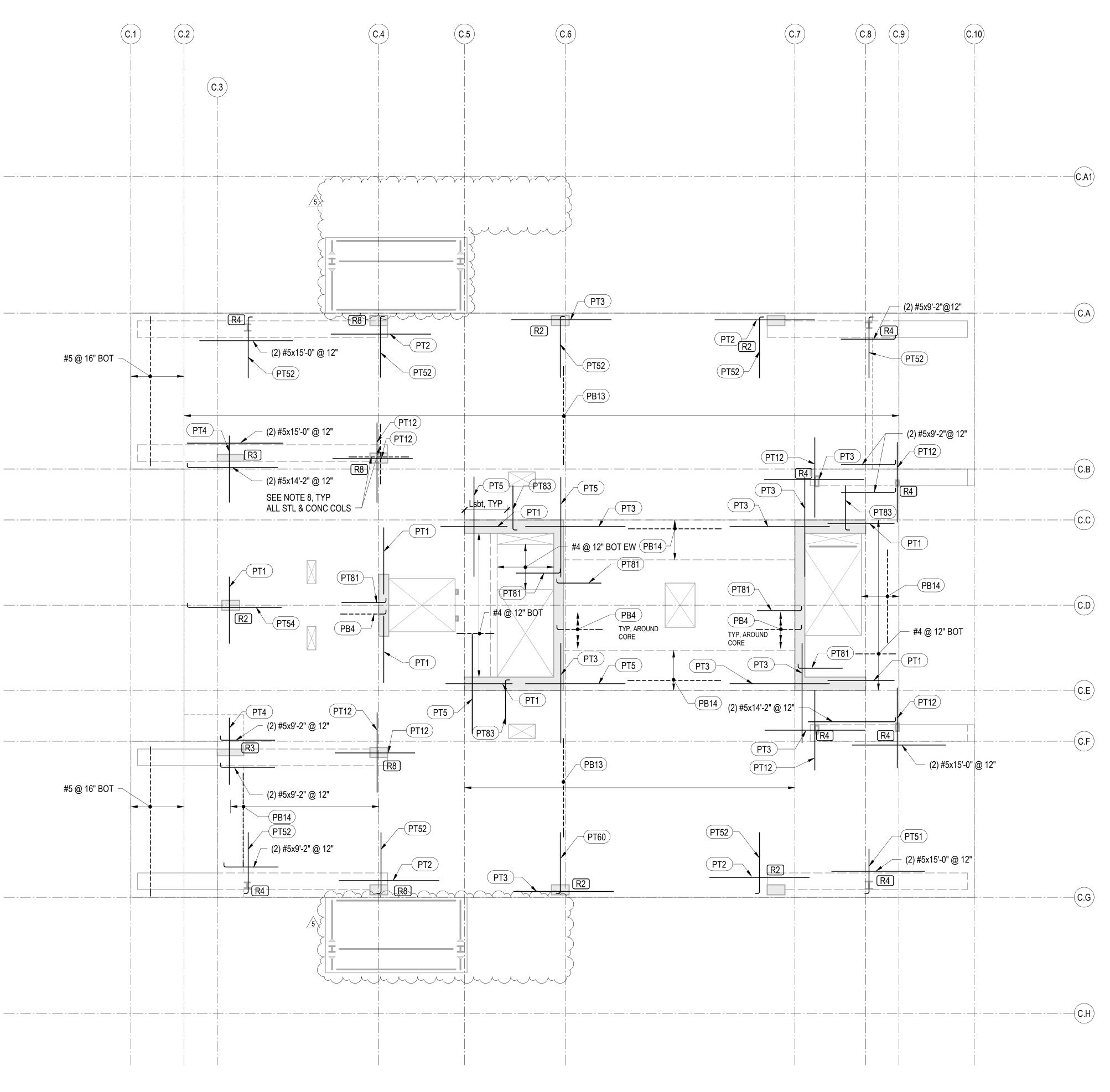
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- 2. SEE "TYPICAL POST-TENSIONED SLAB DETAILS" FOR ADDITIONAL INFORMATION.

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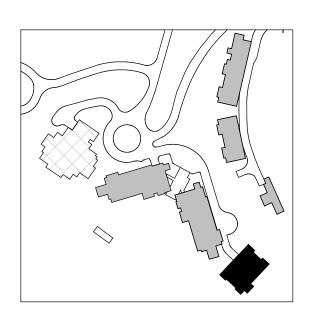
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- 6. WHERE BAR LENGTH CANNOT BE ACHIEVED DUE TO SLAB EDGE, HOOK BAR.
- 7. WHERE NOTES AS "HOOKED", PROVIDE 90 OR 180 DEGREE HOOK AS SHOWN ON PLAN. NOTED BAR LENGTH IS LENGTH OF STRAIGHT PORTION OF BAR.
- 8. PROVIDE INTEGRITY BOTTOM BARS PER STUD RAIL 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.

1 TOWER C - LEVEL 6 - REINFORCEMENT PLAN

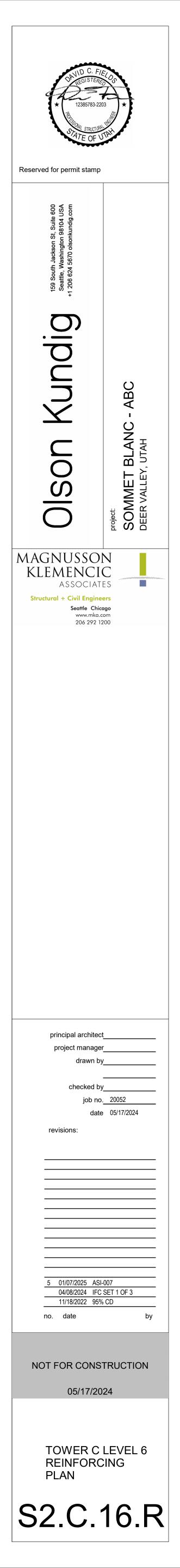


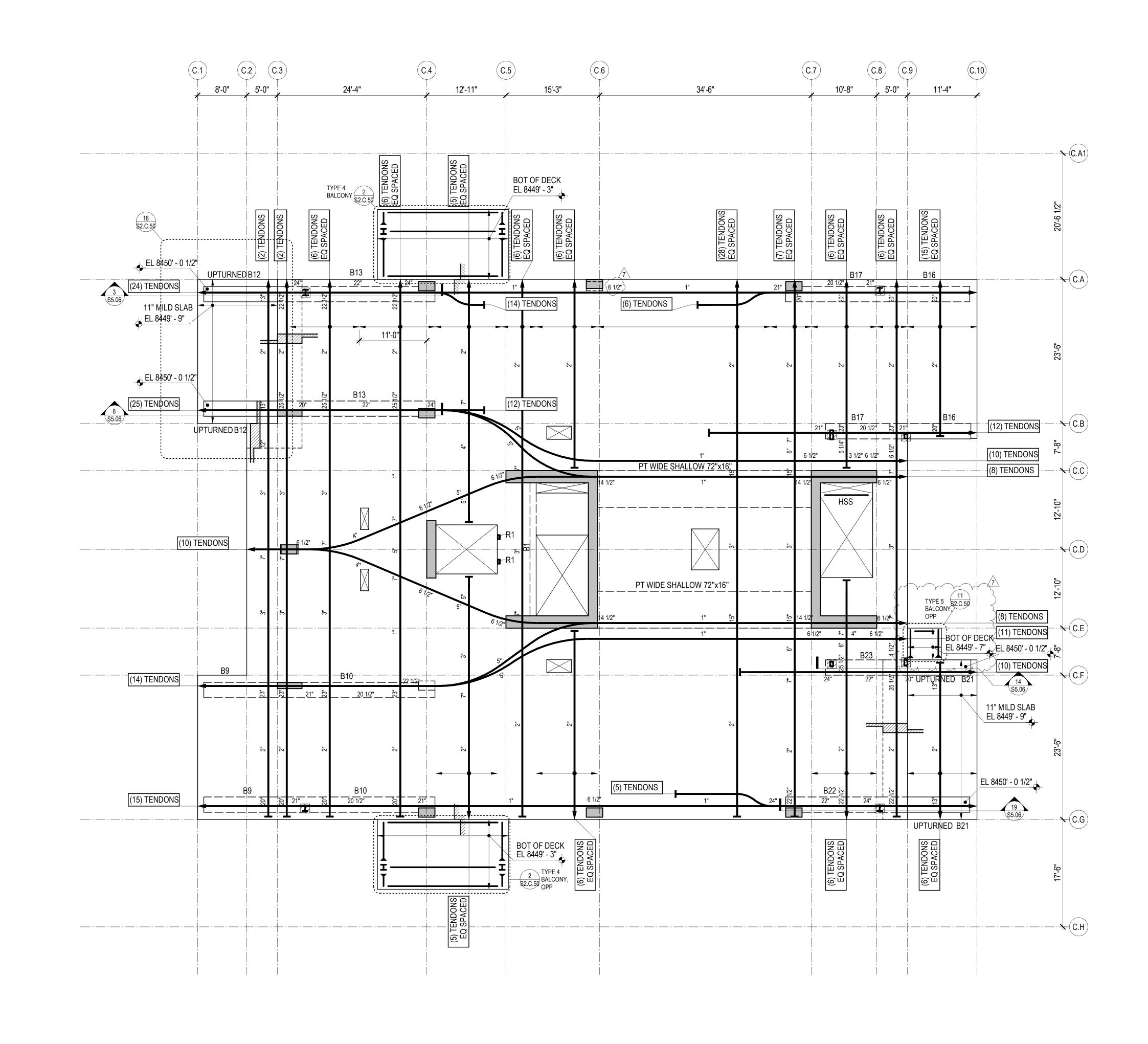
PT TOP REINFORCEMENT SCHEDULE									
MARK	REINFORCING	REMARKS							
PT1	(6) #5x10'-0"								
PT2	(6) #5x15'-0"								
PT3	(8) #5x15'-0"								
PT4	(12) #5x10'-0"								
PT5	(10) #5x15'-0"								
PT6	(18) #6x12'-0" @ 5"	STAGGER 3'-0"							
PT7	(14) #5x10'-0"								
PT9	(14) #6x15'-0"								
PT11	(13) #6x15'-0"								
PT12	(10) #5x12'-0"								
PT30	#5x10'-0"@ 15"								
PT32	#6x12'-0"@ 6"								
PT50	(4) #5x6'-8"	HOOK AT END							
PT51	(6) #5x6'-8"	HOOK AT END							
PT52	(10) #5x9'-2"	HOOK AT END							
PT54	(6) #5x14'-2"	HOOK AT END							
PT56	(16) #5x11'-2"	HOOK AT END							
PT57	(10) #5x14'-2"	HOOK AT END							
PT60	(12) #5x9'-2"	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							

PT BOTTOM REINFORCEMENT SCHEDULE										
MARK	REINFORCING	REMARKS								
PB1	#5x10'-0" @ 6"									
PB4	#4x6'-10" @ 12"	HOOK AT END								
PB5	#5x6'-8" @ 6"	HOOK AT END								
PB7	#5x20'-0" @ 12"									
PB8	#7x20'-0" @ 12"									
PB9	#7x20'-0" @ 6"									
PB10	#6x20'-0" @ 6"									
PB13	#5x15'-0" @ 24"									
PB14	#5x15'-0" @ 12"									
PB15	#7x10'-0" @ 8"									
PB16	#7x6'-4" @ 8"	HOOK AT END								
PB17	#5x10'-0" @ 12"									
PB18	#7x10'-0" @ 12"									









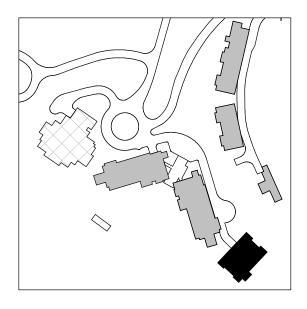
1 TOWER C - LEVEL 7 FRAMING PLAN

REFERENCE DRAWINGS

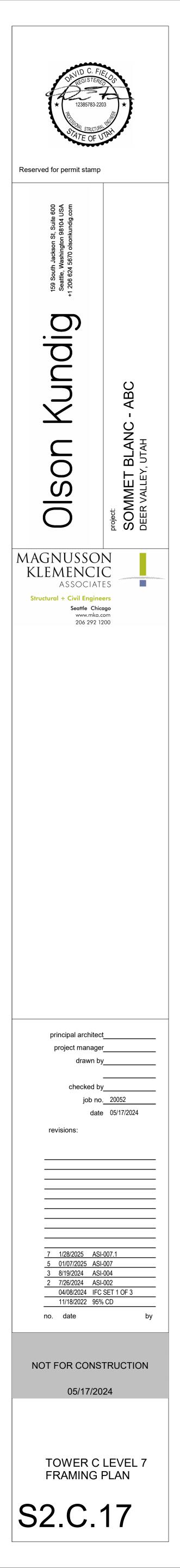
	NCE DIAMINOS
S0.XX	DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES
S1.XX	LOAD DIAGRAMS
S2.XX	PLANS
S3.XX	ELEVATIONS
S4.XX	TYPICAL DETAILS AND SCHEDULES
S5.XX	CONCRETE SECTIONS AND DETAILS
S6.XX	STEEL SECTIONS AND DETAILS
NOTES:	
	RENCE FLOOR ELEVATION IS 8450' - 6". TOP OF STRUCTURAL CONCRETE SLAB 50' - 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.







#5 @ 16" BOT

_____ · ___ · ___ · ___ · ___ ·

#5 @ 16" BOT

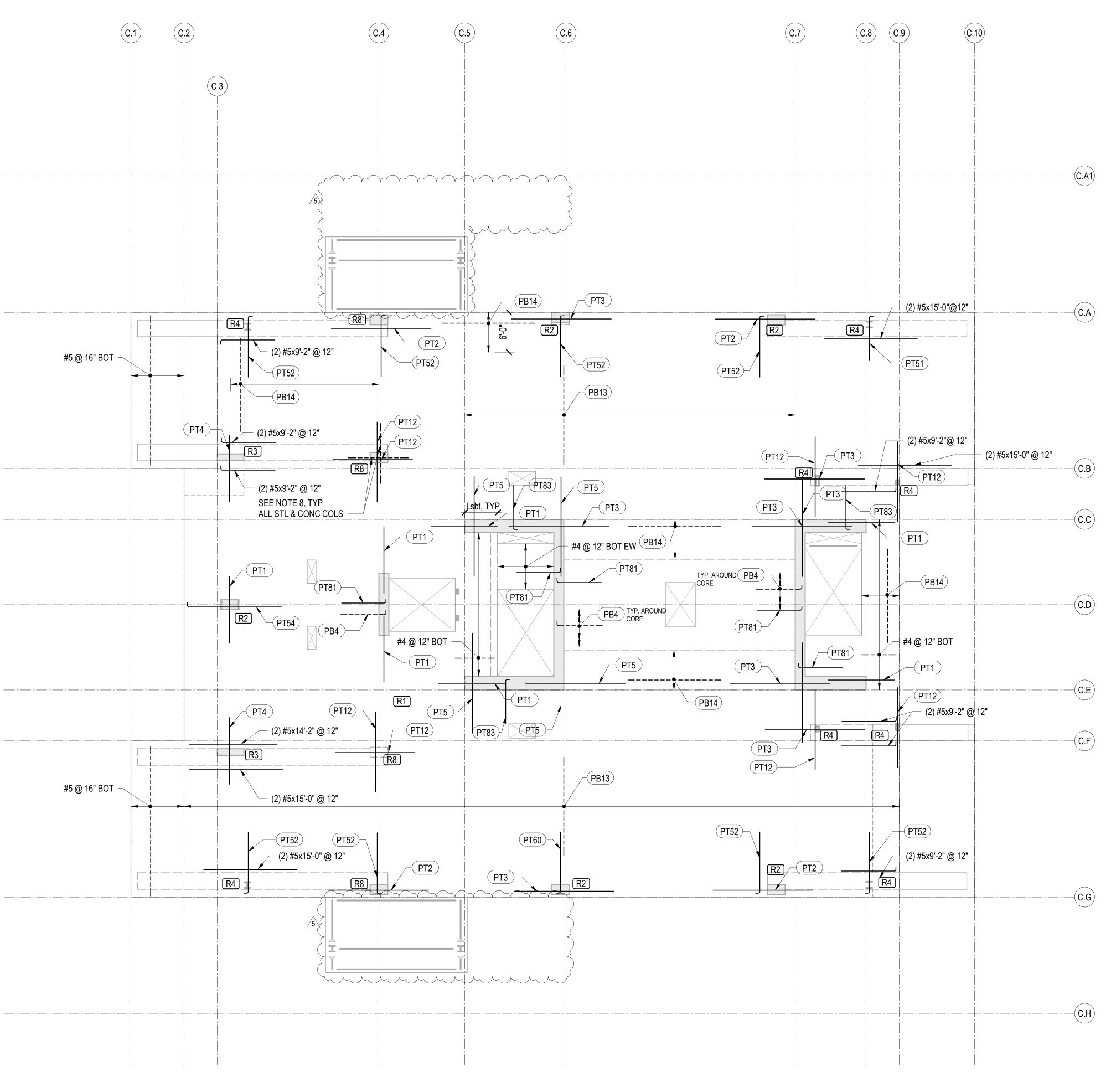
REINFORCING NOTES:

- 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

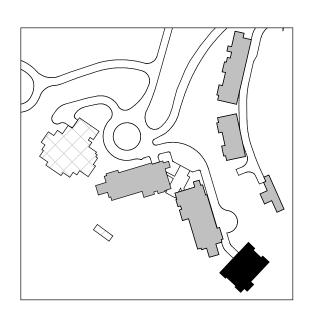
- 4. (RX) INDICATES STUD RAIL. STUD RAILS SHALL BE PLACED AT ALL COLUMNS. SEE "TYPICAL STUD RAIL REINFORCEMENT AT COLUMNS" DETAIL AND STUD RAIL SCHEDULE.
- 5. SEE "TYPICAL CONCRETE OPENINGS AND EMBEDMENTS" FOR ADDITIONAL REINFORCEMENT REQUIREMENTS. NOTIFY STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN 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.

1 TOWER C - LEVEL 7 - REINFORCEMENT PLAN

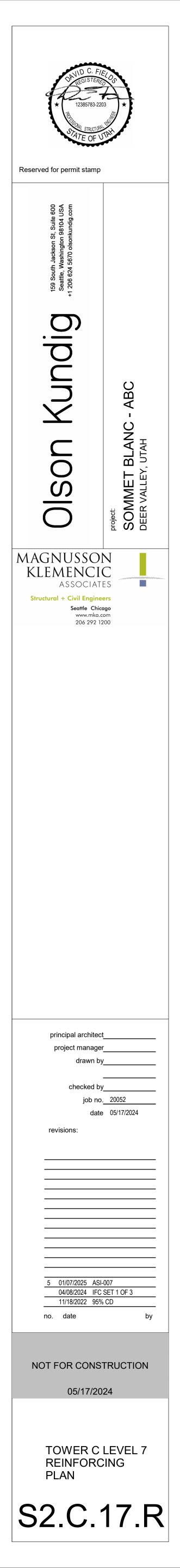


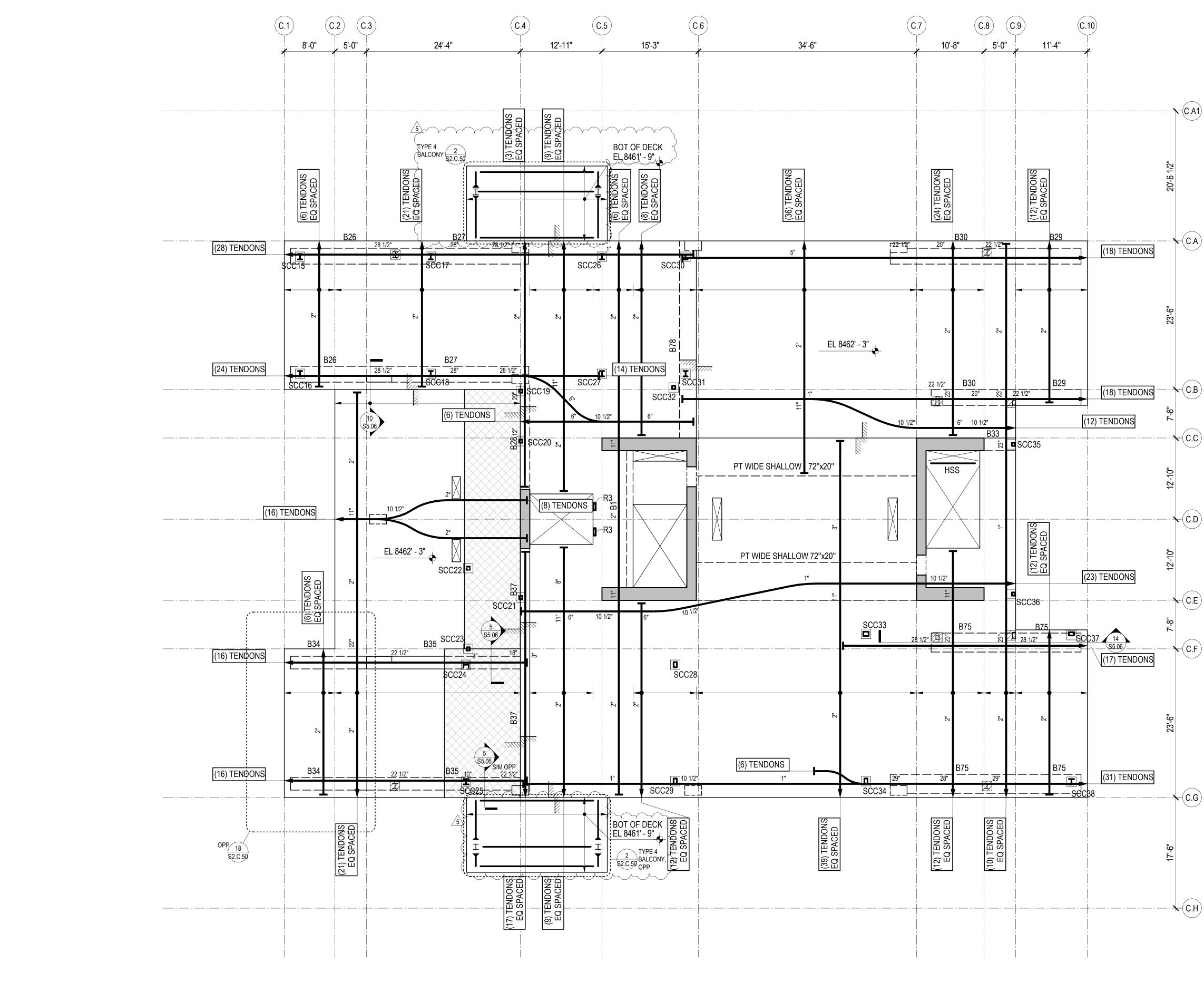
PT TOP REINFORCEMENT SCHEDULE								
MARK	REINFORCING	REMARKS						
PT1	(6) #5x10'-0"							
PT2	(6) #5x15'-0"							
PT3	(8) #5x15'-0"							
PT4	(12) #5x10'-0"							
PT5	(10) #5x15'-0"							
PT6	(18) #6x12'-0" @ 5"	STAGGER 3'-0"						
PT7	(14) #5x10'-0"							
PT9	(14) #6x15'-0"							
PT11	(13) #6x15'-0"							
PT12	(10) #5x12'-0"							
PT30	#5x10'-0"@ 15"							
PT32	#6x12'-0"@ 6"							
PT50	(4) #5x6'-8"	HOOK AT END						
PT51	(6) #5x6'-8"	HOOK AT END						
PT52	(10) #5x9'-2"	HOOK AT END						
PT54	(6) #5x14'-2"	HOOK AT END						
PT56	(16) #5x11'-2"	HOOK AT END						
PT57	(10) #5x14'-2"	HOOK AT END						
PT60	(12) #5x9'-2"	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						

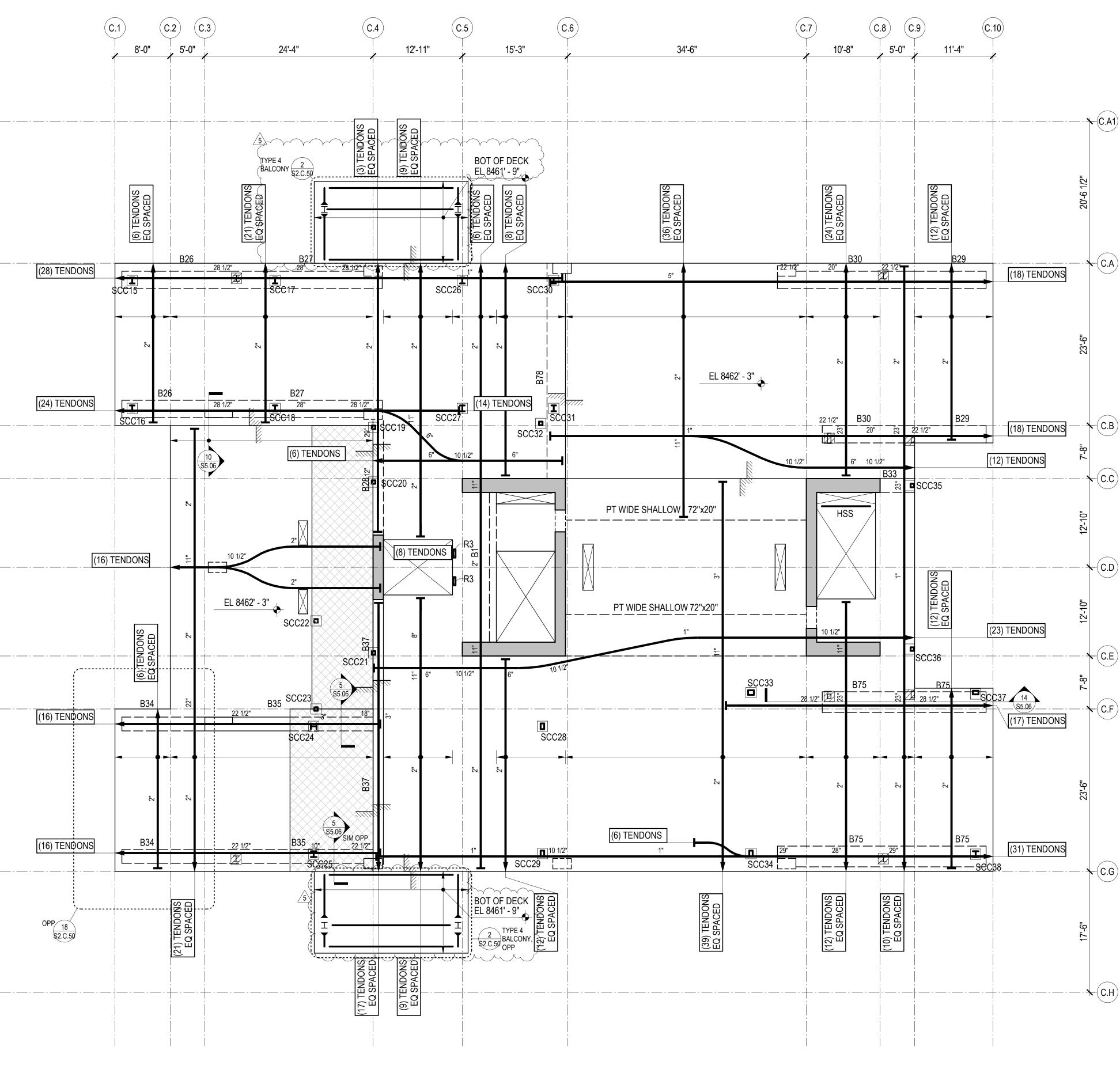
PT BOTTOM REINFORCEMENT SCHEDULE									
MARK	REINFORCING	REMARKS							
PB1	#5x10'-0" @ 6"								
PB4	#4x6'-10" @ 12"	HOOK AT END							
PB5	#5x6'-8" @ 6"	HOOK AT END							
PB7	#5x20'-0" @ 12"								
PB8	#7x20'-0" @ 12"								
PB9	#7x20'-0" @ 6"								
PB10	#6x20'-0" @ 6"								
PB13	#5x15'-0" @ 24"								
PB14	#5x15'-0" @ 12"								
PB15	#7x10'-0" @ 8"								
PB16	#7x6'-4" @ 8"	HOOK AT END							
PB17	#5x10'-0" @ 12"								
PB18	#7x10'-0" @ 12"								











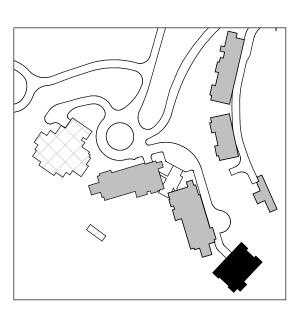
1 TOWER C - LEVEL 8 FRAMING PLAN

REFERENCE DRAWINGS

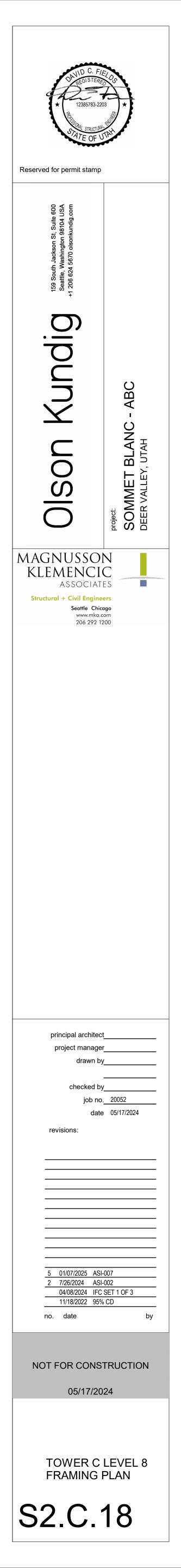
S0.XX DRAWING INDEX, ABBREVIATIONS, LEGENDS, GENERAL NOTES S1.XX LOAD DIAGRAMS S2.XX PLANS S3.XX ELEVATIONS S4.XX TYPICAL DETAILS AND SCHEDULES S5.XX CONCRETE SECTIONS AND DETAILS S6.XX STEEL SECTIONS AND DETAILS NOTES:

- 1. REFERENCE FLOOR ELEVATION IS 8463' 0". TOP OF STRUCTURAL CONCRETE SLAB 7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DISCIPLINES IS 8462' - 11,"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.

- 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.
- 10. "SC#" INDICATES STEEL COLUMN MARK FOR COLUMNS NOT LOCATED BY GRID. SEE TYPICAL STEEL COLUMN DETAILS AND SCHEDULE FOR ADDITIONAL INFORMATION.







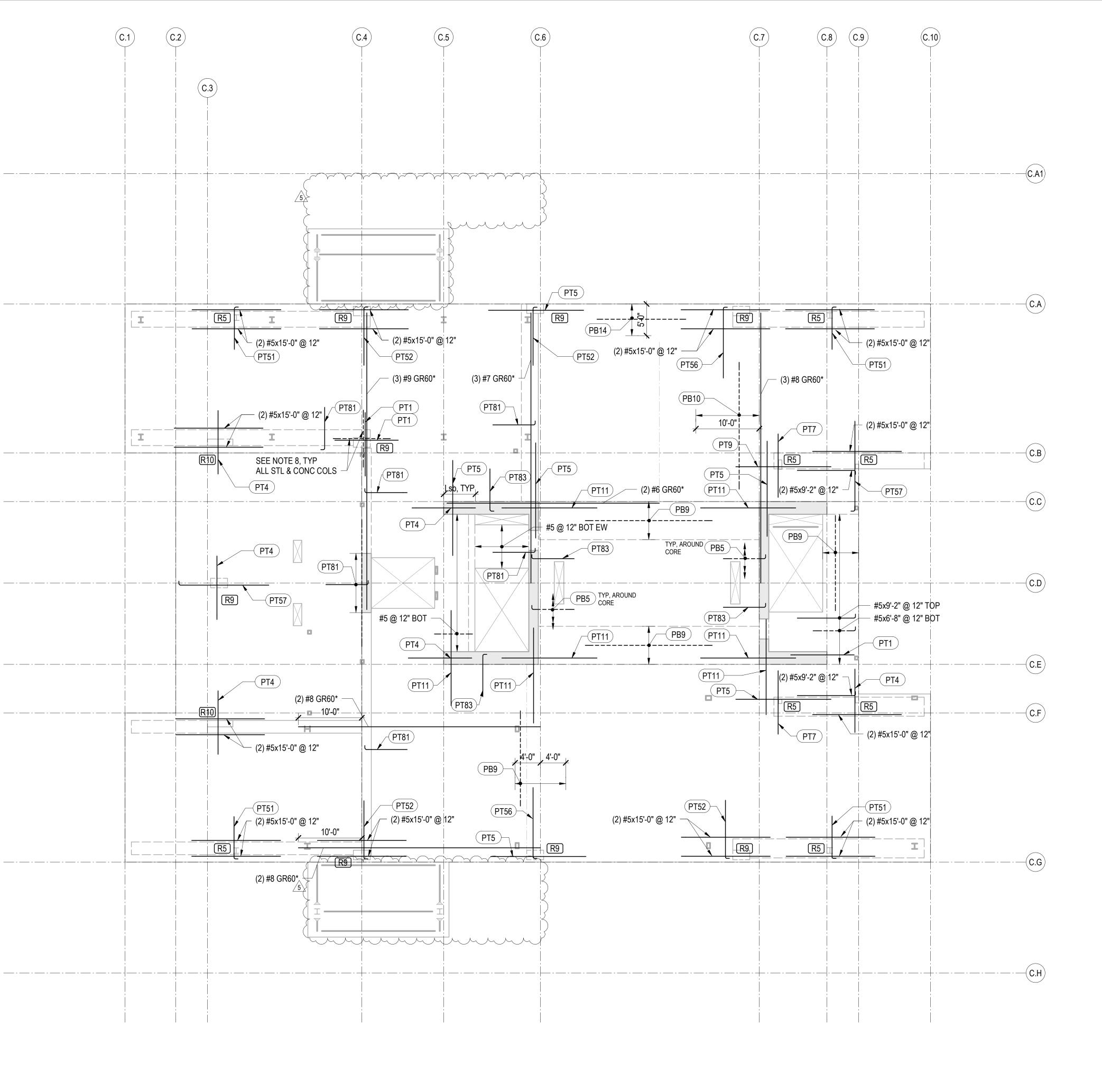
REINFORCING NOTES:

- 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

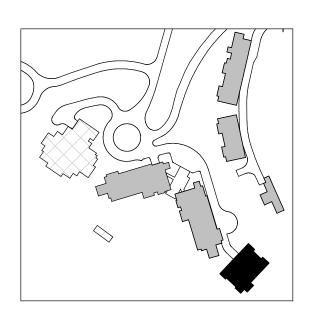
- 4. (RX) INDICATES STUD RAIL. STUD RAILS SHALL BE PLACED AT ALL COLUMNS. SEE "TYPICAL STUD RAIL REINFORCEMENT AT COLUMNS" DETAIL AND STUD RAIL SCHEDULE.
- 5. SEE "TYPICAL CONCRETE OPENINGS AND EMBEDMENTS" FOR ADDITIONAL REINFORCEMENT REQUIREMENTS. NOTIFY STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN 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.
- WHERE NOTES AS "HOOKED", PROVIDE 90 OR 180 DEGREE HOOK AS SHOWN ON PLAN. NOTED BAR LENGTH IS LENGTH OF STRAIGHT PORTION OF BAR.
- 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.
- 9. * 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.

1 TOWER C - LEVEL 8 - REINFORCEMENT PLAN

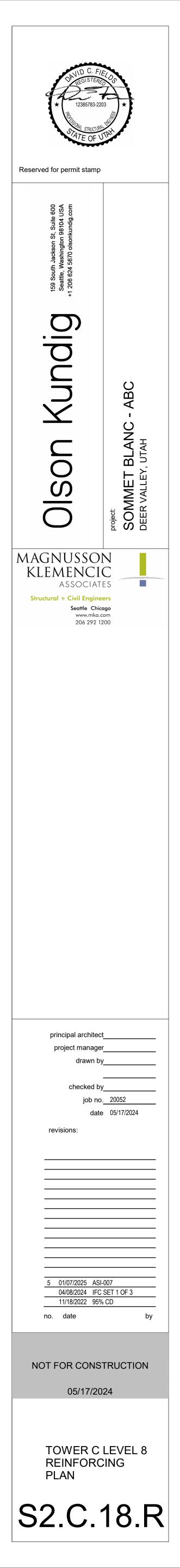


PT TOP REINFORCEMENT SCHEDULE									
MARK	REINFORCING	REMARKS							
PT1	(6) #5x10'-0"								
PT2	(6) #5x15'-0"								
PT3	(8) #5x15'-0"								
PT4	(12) #5x10'-0"								
PT5	(10) #5x15'-0"								
PT6	(18) #6x12'-0" @ 5"	STAGGER 3'-0"							
PT7	(14) #5x10'-0"								
PT9	(14) #6x15'-0"								
PT11	(13) #6x15'-0"								
PT12	(10) #5x12'-0"								
PT30	#5x10'-0"@ 15"								
PT32	#6x12'-0"@ 6"								
PT50	(4) #5x6'-8"	HOOK AT END							
PT51	(6) #5x6'-8"	HOOK AT END							
PT52	(10) #5x9'-2"	HOOK AT END							
PT54	(6) #5x14'-2"	HOOK AT END							
PT56	(16) #5x11'-2"	HOOK AT END							
PT57	(10) #5x14'-2"	HOOK AT END							
PT60	(12) #5x9'-2"	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							

PT BOTTOM REINFORCEMENT SCHEDULE									
MARK	REINFORCING	REMARKS							
PB1	#5x10'-0" @ 6"								
PB4	#4x6'-10" @ 12"	HOOK AT END							
PB5	#5x6'-8" @ 6"	HOOK AT END							
PB7	#5x20'-0" @ 12"								
PB8	#7x20'-0" @ 12"								
PB9	#7x20'-0" @ 6"								
PB10	#6x20'-0" @ 6"								
PB13	#5x15'-0" @ 24"								
PB14	#5x15'-0" @ 12"								
PB15	#7x10'-0" @ 8"								
PB16	#7x6'-4" @ 8"	HOOK AT END							
PB17	#5x10'-0" @ 12"								
PB18	#7x10'-0" @ 12"								

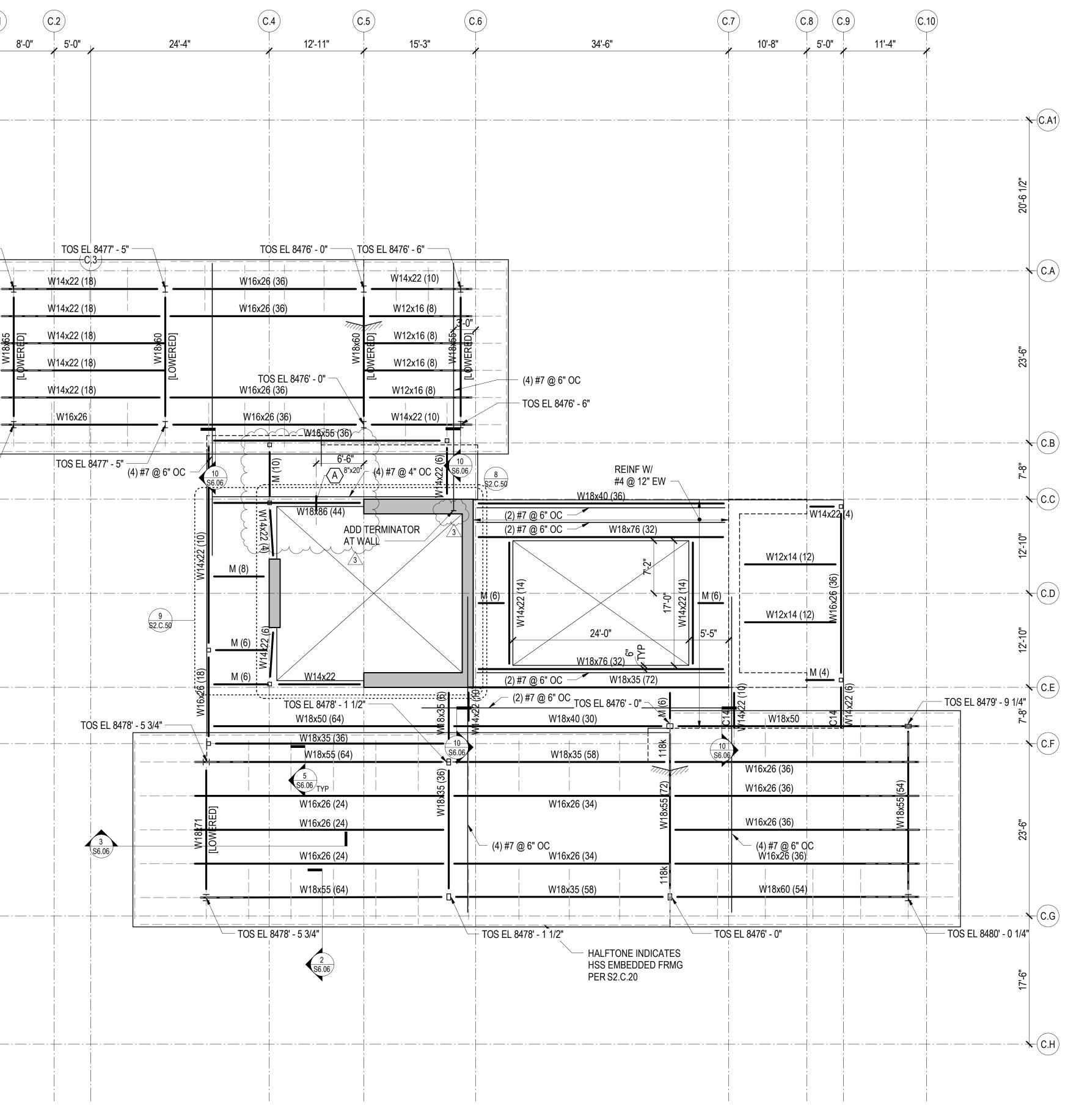






(C.1) TOS EL 8477' - 4 1/2" — _____

1 TOWER C - ROOF LEVEL FRAMING PLAN



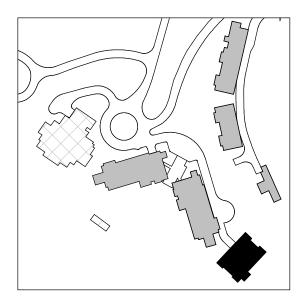
REFERENCE DRAWINGS

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

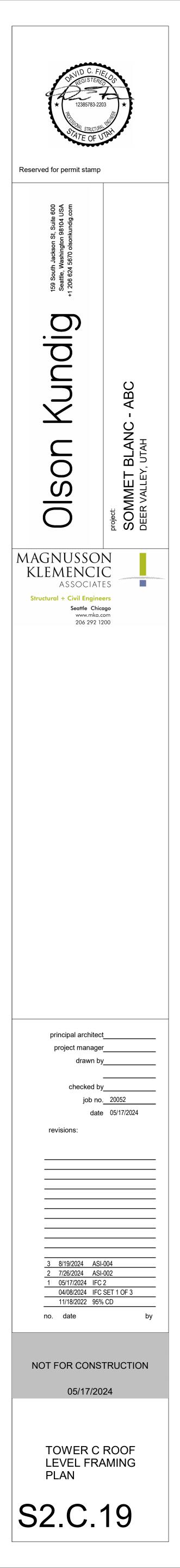
NOTES:

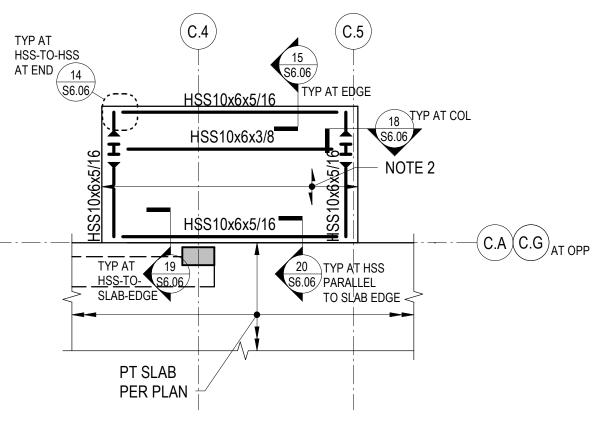
- 1. REFERENCE FLOOR ELEVATION IS 8475' 0". TOP OF SLAB ON STEEL DECK IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE SLOPES NOT SHOWN.
- 2. STRUCTURAL SLAB IS 3 INCHES OF LIGHTWEIGHT CONCRETE ON 3-INCH COMPOSITE STEEL DECK UNLESS NOTED OTHERWISE. REINFORCE 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.



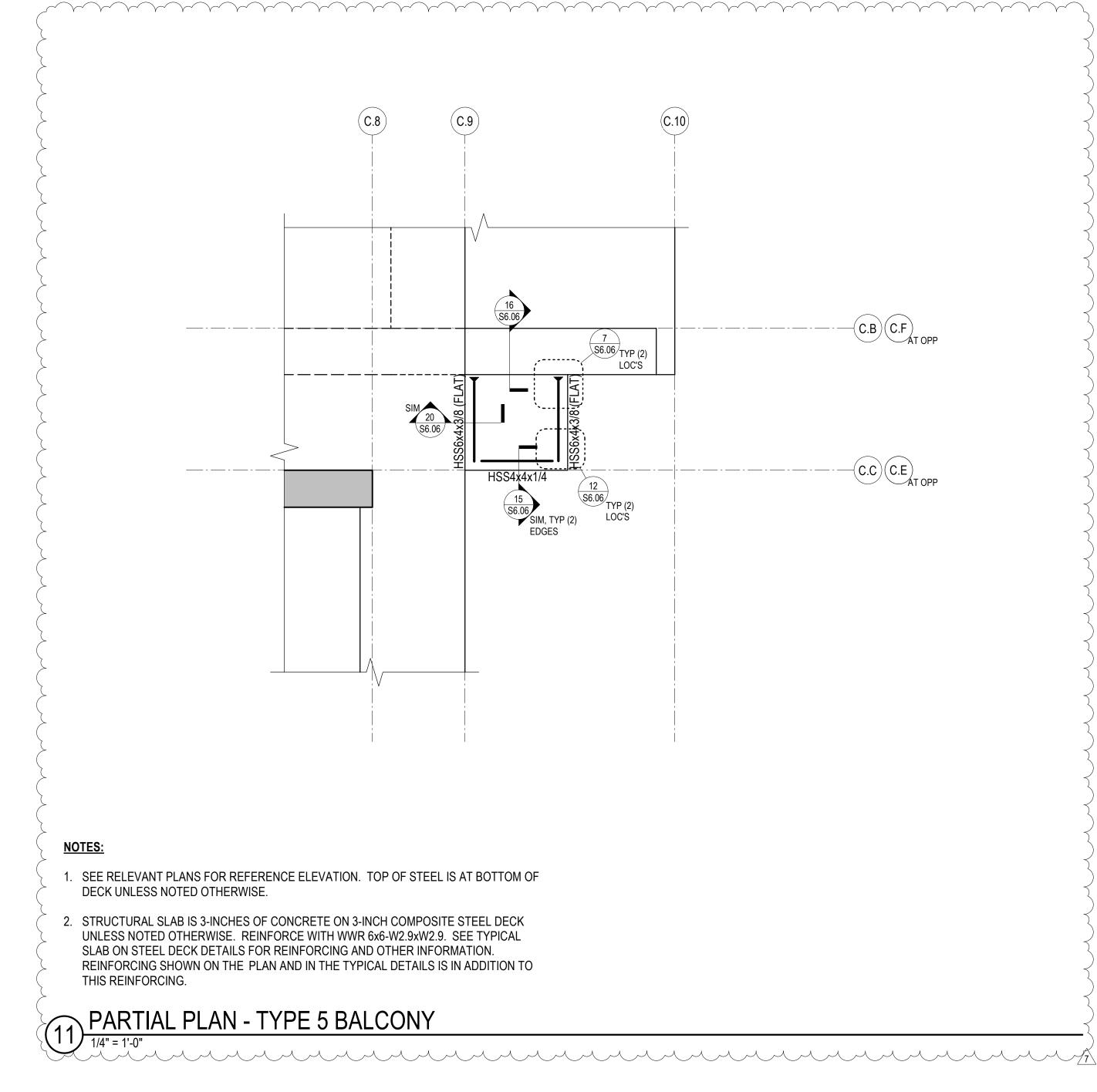






NOTES:

- DECK UNLESS NOTED OTHERWISE.
- THIS REINFORCING.
- 2 PARTIAL PLAN TYPE 4 BALCONY

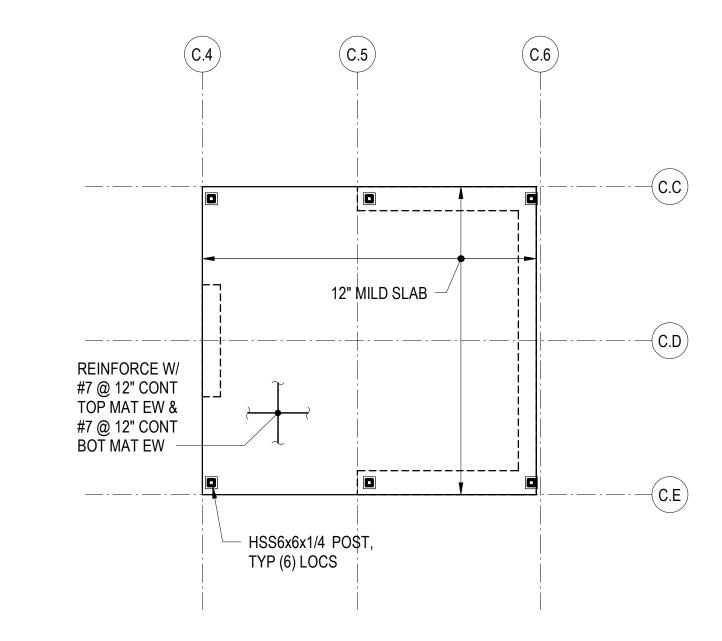


1. SEE RELEVANT PLANS FOR REFERENCE ELEVATION. TOP OF STEEL IS AT BOTTOM OF

2. STRUCTURAL SLAB IS 3-INCHES OF 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

C.B C.F AT OPP

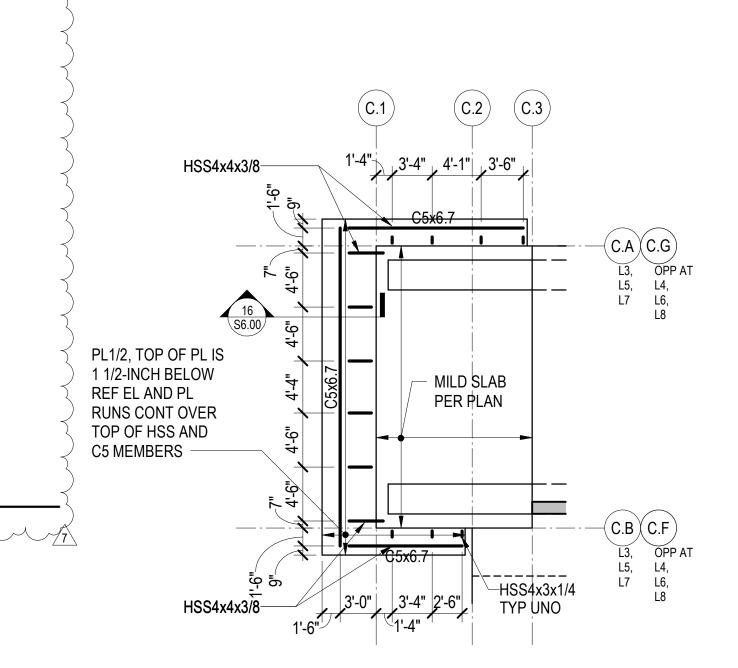
-C.C C.E AT OPP



NOTES:

- 1. REFERENCE FLOOR ELEVATION IS 8482' 2". 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 12-INCH THICK MILD TWO-WAY SLAB UNLESS NOTED OTHERWISE. SEE THE TYPICAL MILD SLAB DETAILS.
- 3. COORDINATE LOCATION OF ALL EMBEDS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND EXTERIOR WALL SYSTEMS PRIOR TO CASTING THE SLAB.
- 4. 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.
- 5. 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 PARTIAL FRAMING PLAN - ELEVATOR OVERRUN



NOTES:

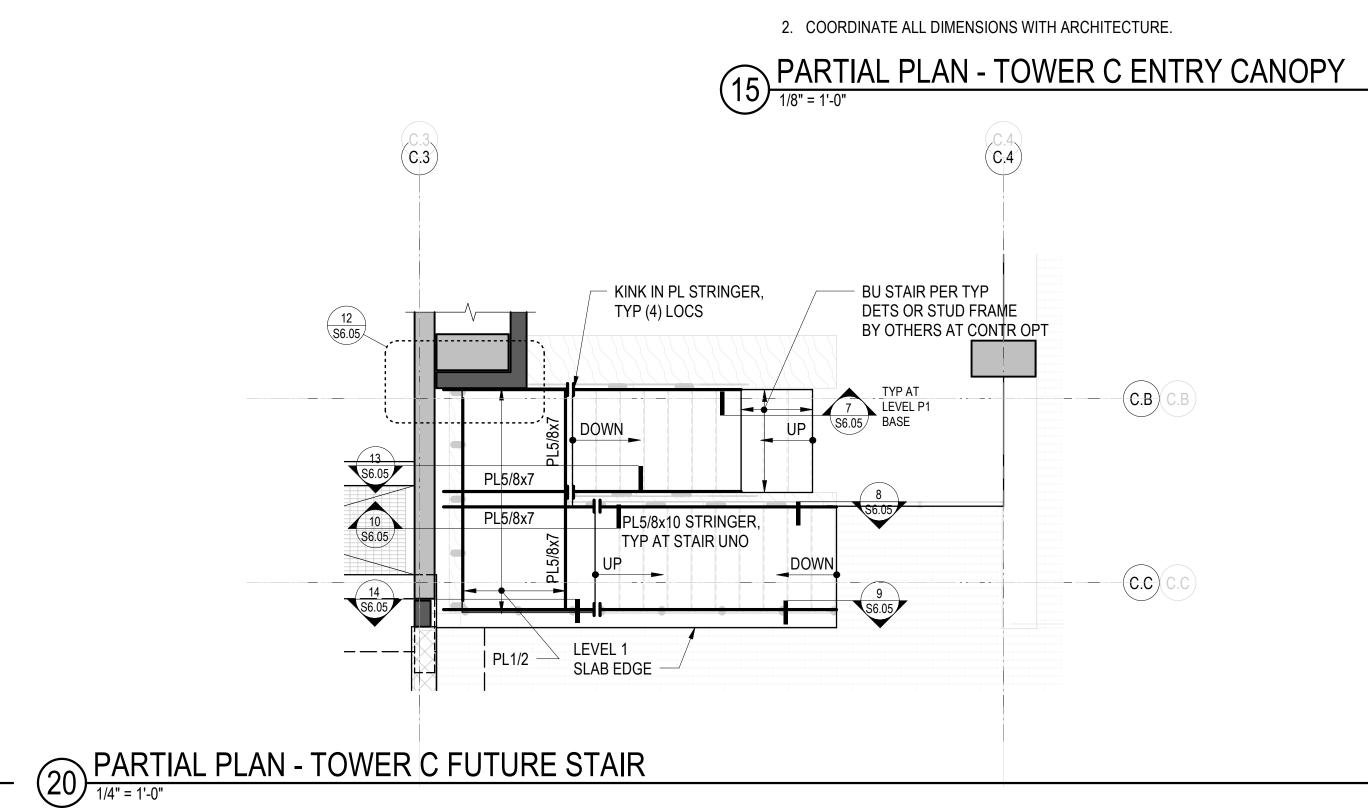
1. REFERENCE FLOOR ELEVATIONS ARE:

TOWER C LEVEL 3: 8402'-6"
TOWER C LEVEL 4: 8414'-6"
TOWER C LEVEL 5: 8426'-6"
TOWER C LEVEL 6: 8438'-6"
TOWER C LEVEL 7: 8450'-6"
TOWER C LEVEL 8: 8463'-0"

- 2. SEE ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION.

18 PARTIAL PLAN - TOWER C SUNSHADES





NOTES:

(C.4)

W12x79 | ∰

1. REFERENCE ELEVATION IS 8374'-6".

SEE SECTIONS FOR ADDITIONAL INFORMATION.

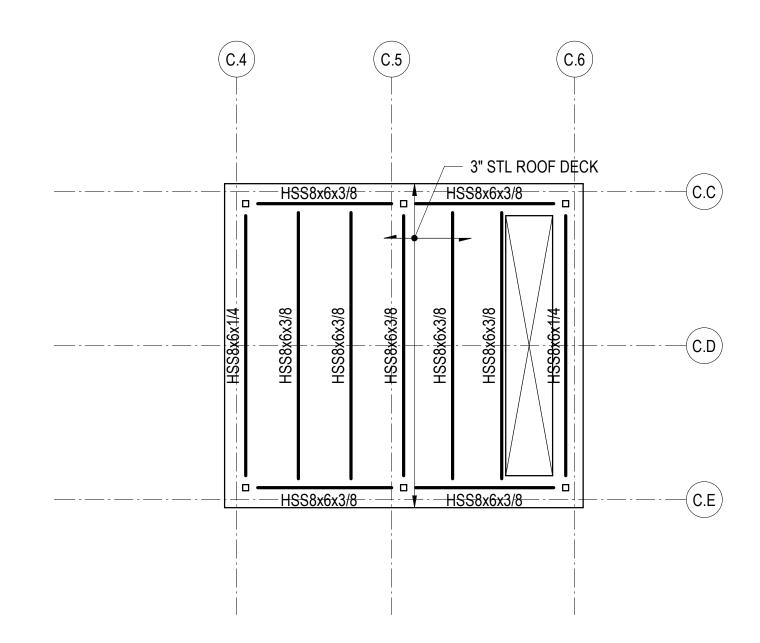
19 S6.05

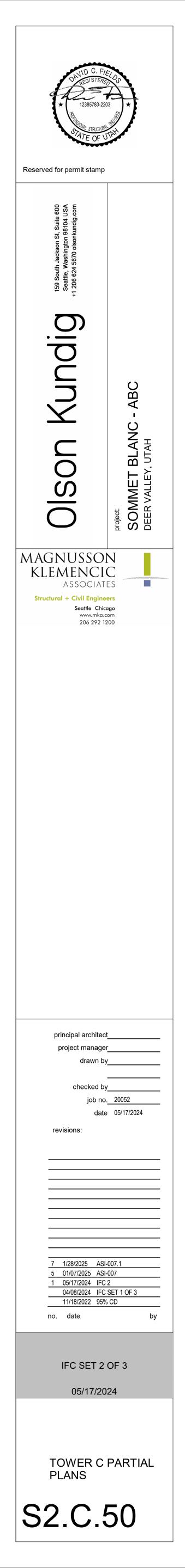
(C.5

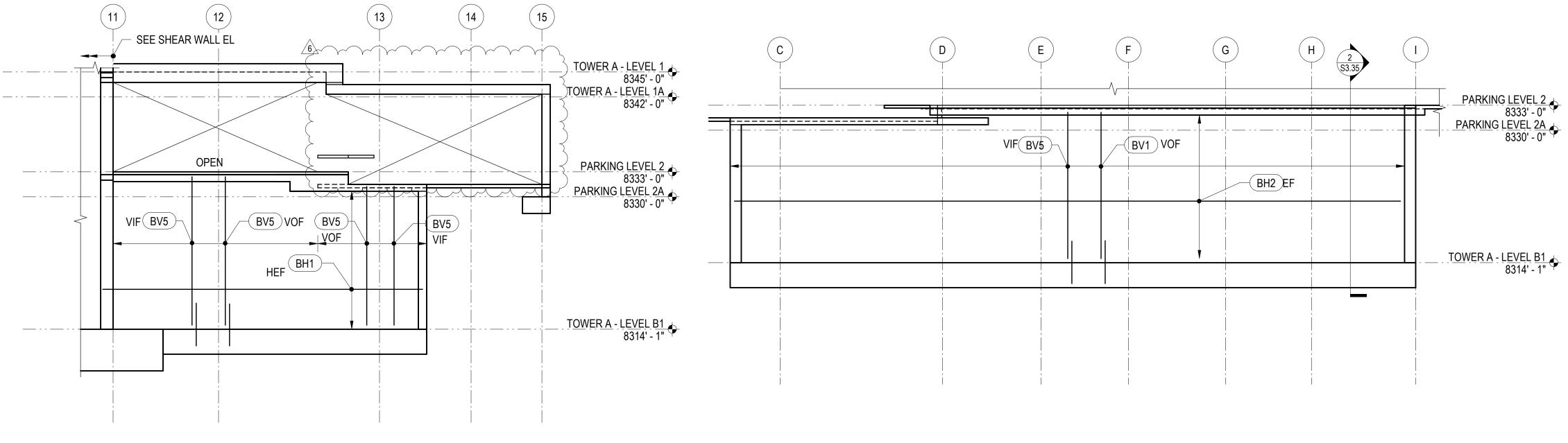
-(C.A)

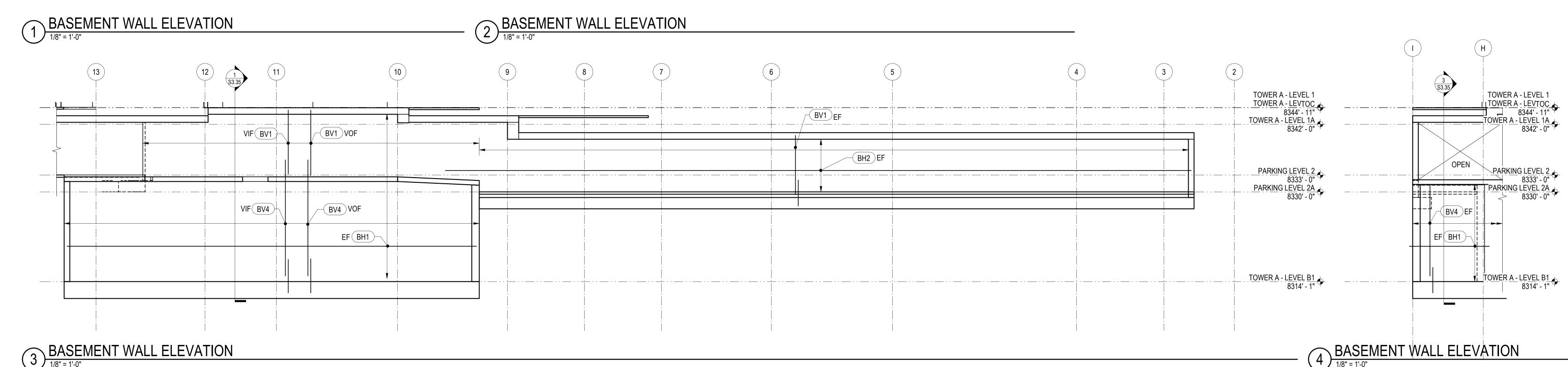
9 PARTIAL PLAN - TOP OF CORE

- 2. ROOF DECK IS MINIMUM 3-INCH x 20 GAUGE STEEL DECKING. DECKING IS TO BE INSTALLED IN MINIMUM THREE SPAN CONDITIONS WHERE POSSIBLE.
- 1. REFERENCE FLOOR ELEVATION IS 8485'-3". REFERENCE TOP OF STRUCTURAL STEEL IS 3-INCHES BELOW THE REFERENCE FLOOR ELEVATION, TYPICAL UNLESS NOTED OTHERWISE.
- NOTES:

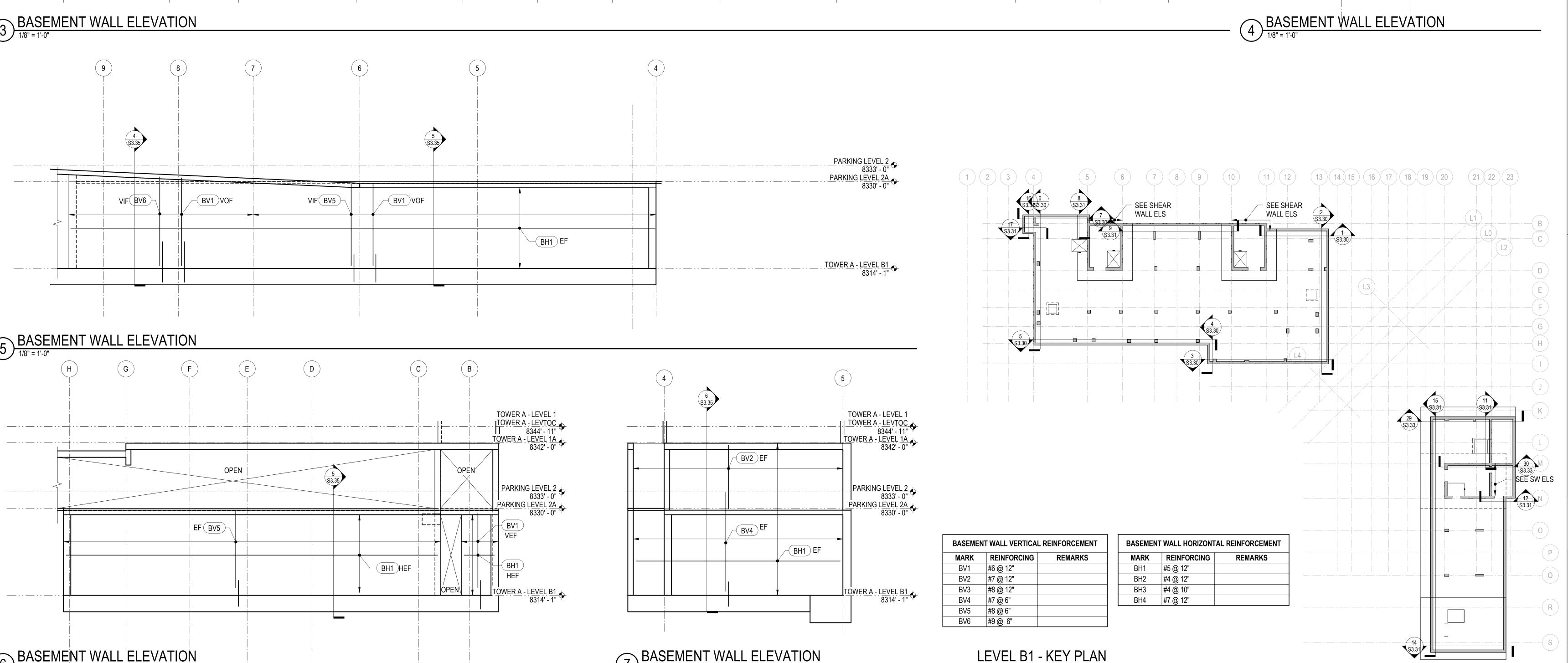




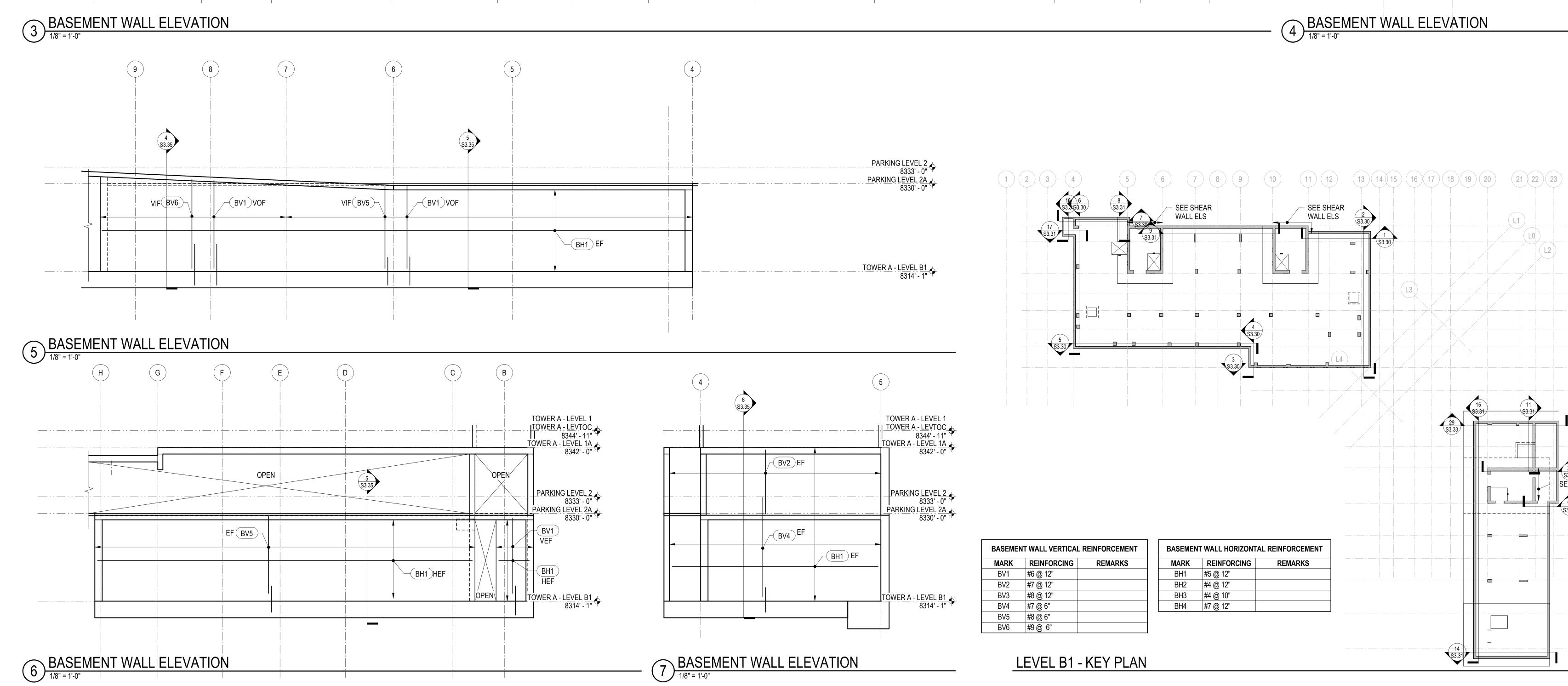




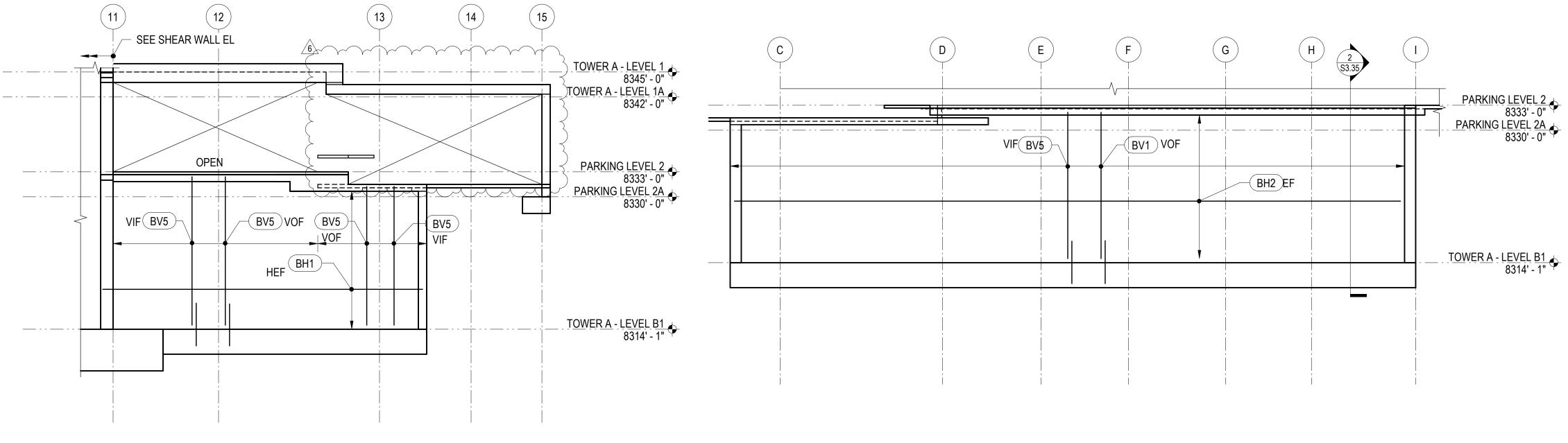


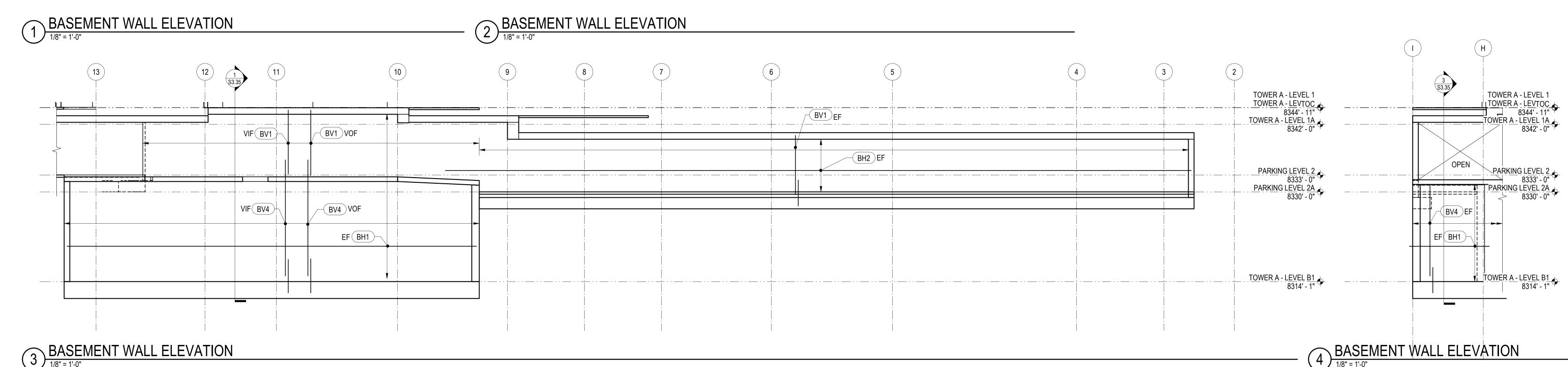




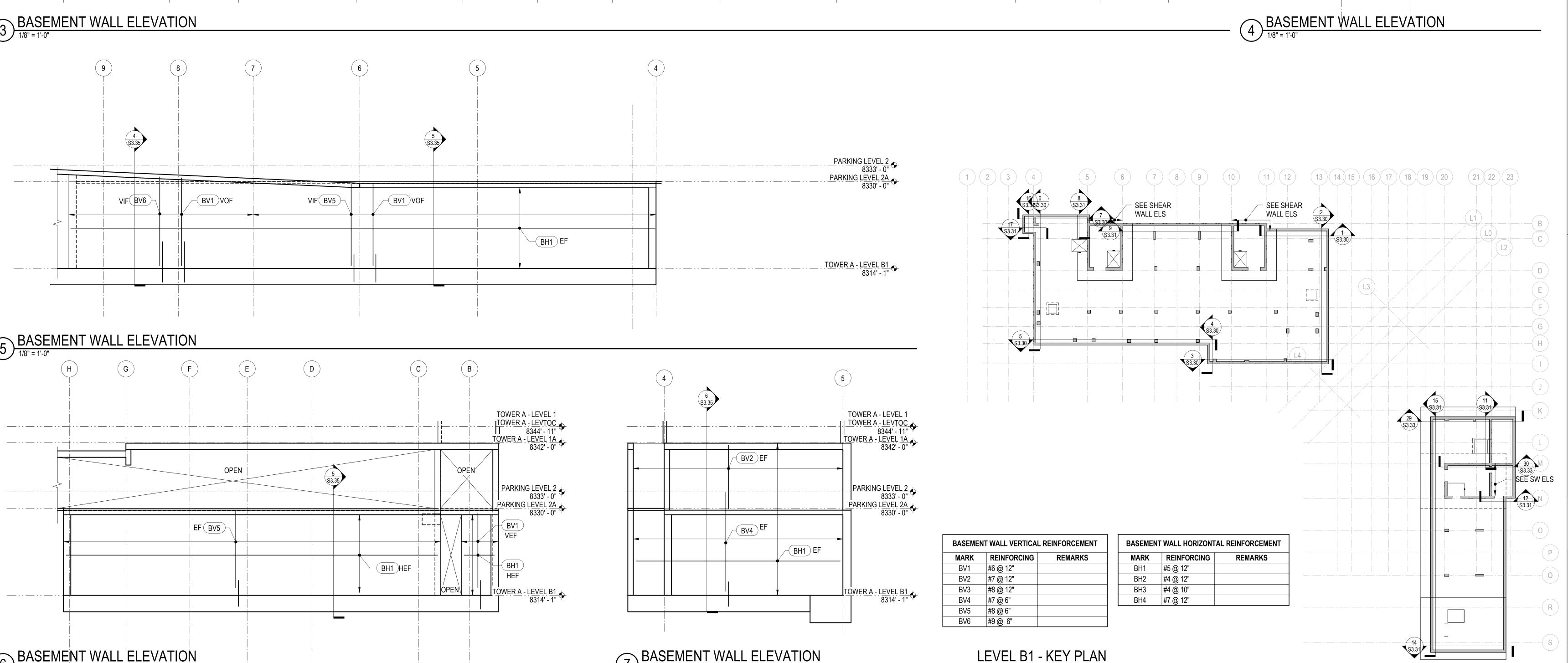




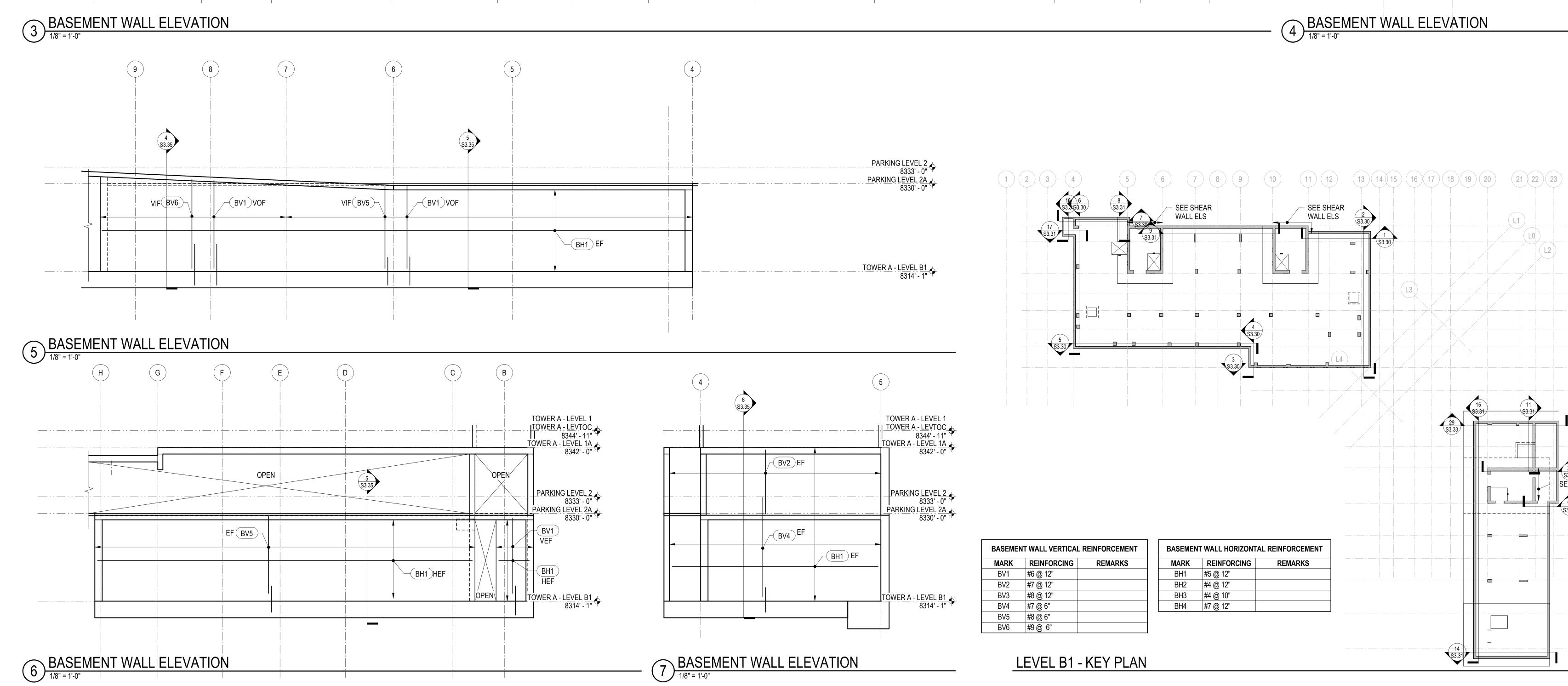




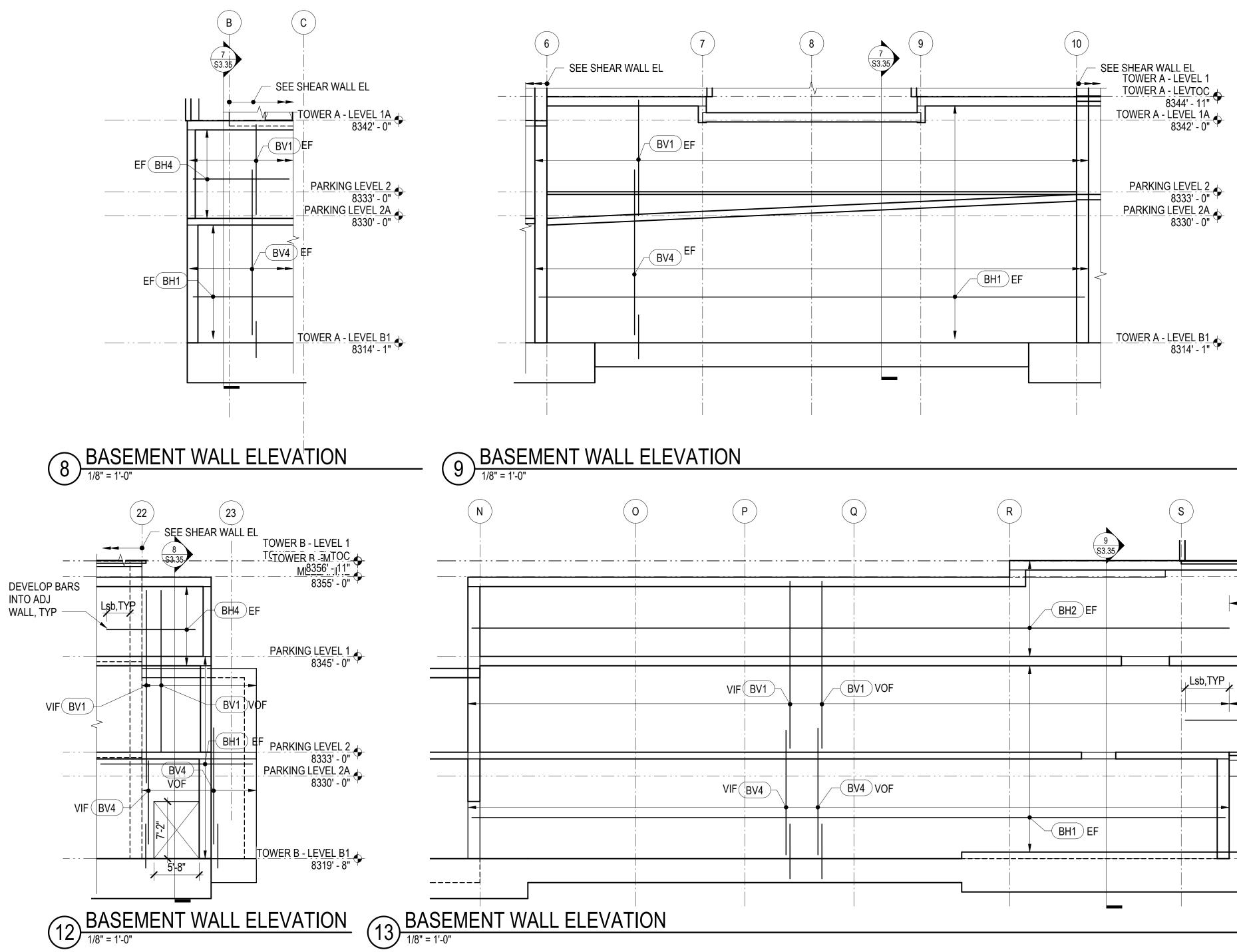


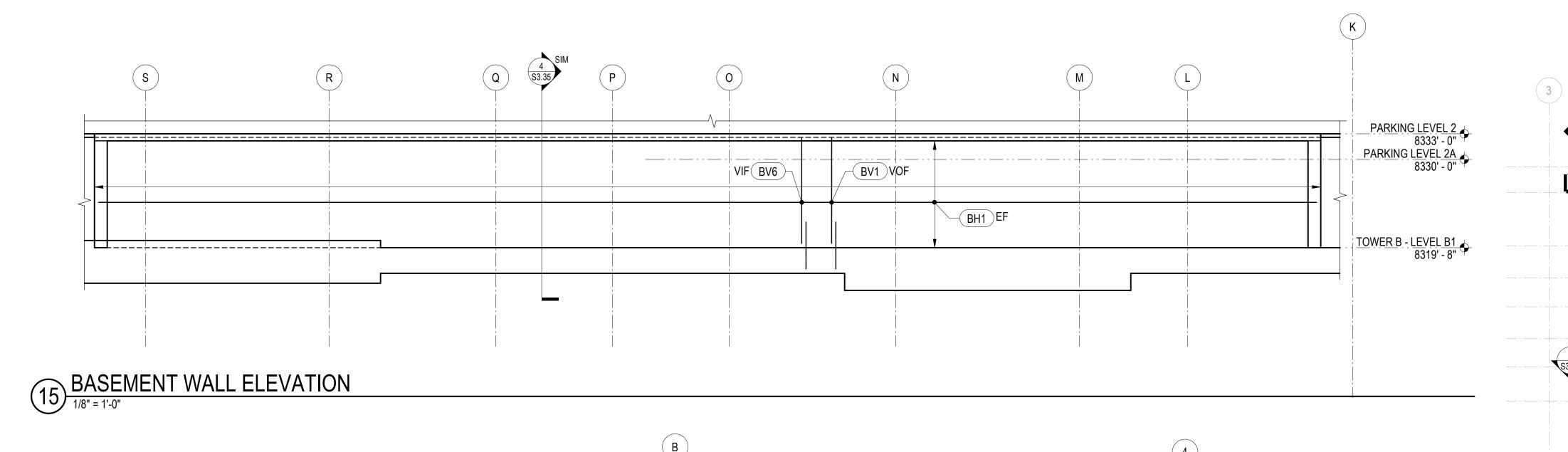




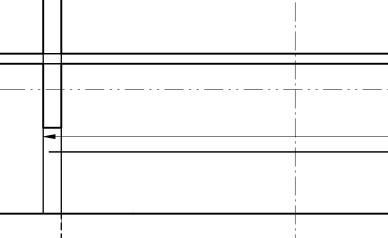












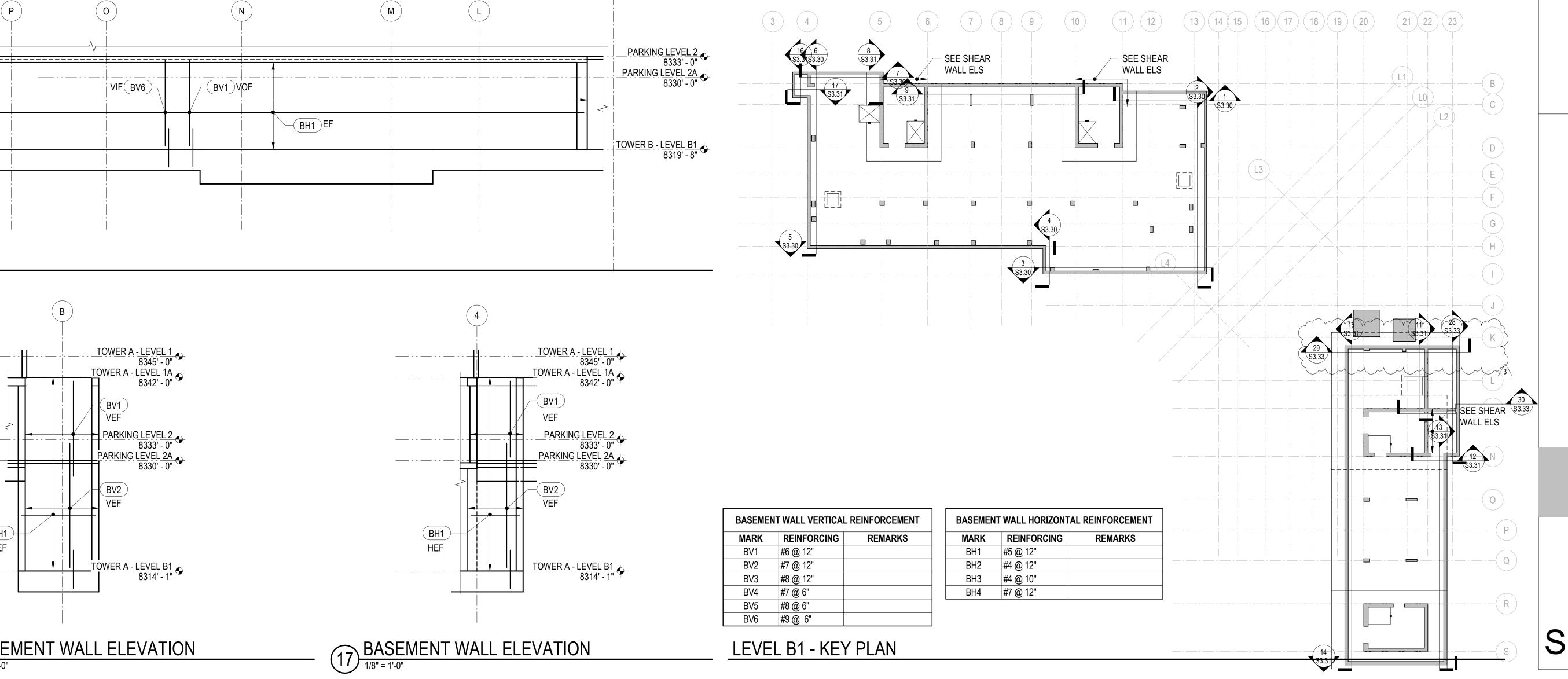
16 BASEMENT WALL ELEVATION

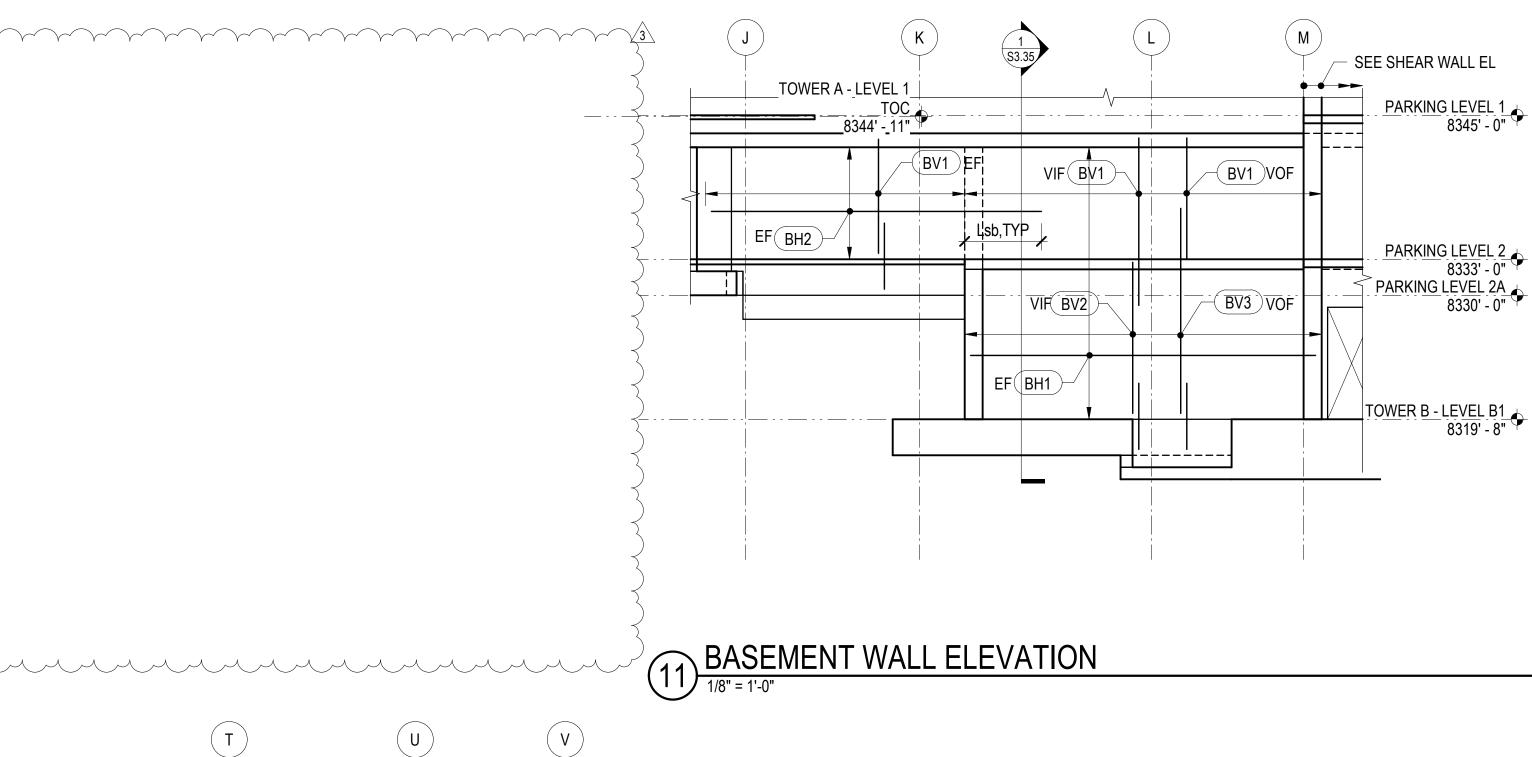
BH1 HEF

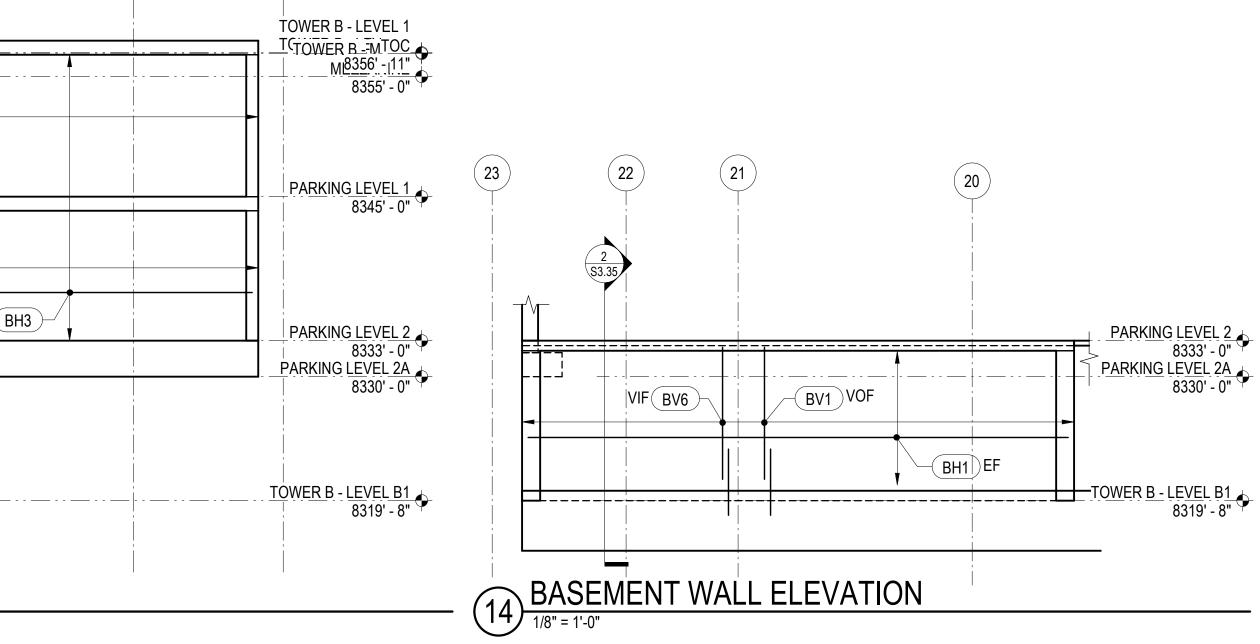
| ▼ | |

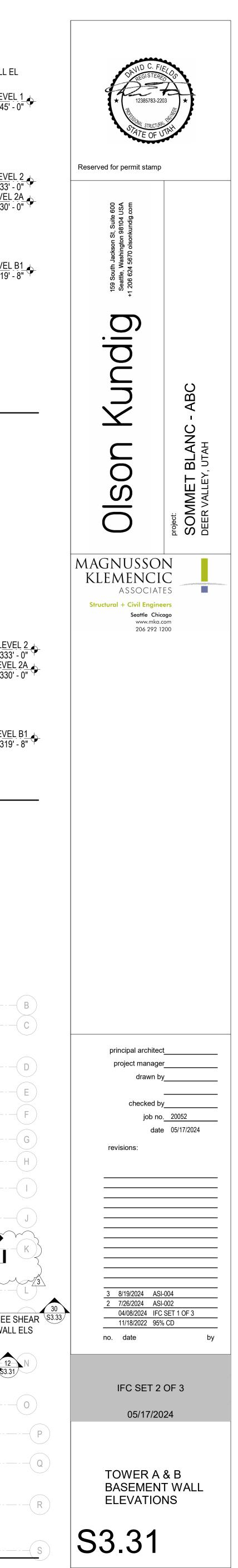
_____ - - - ____

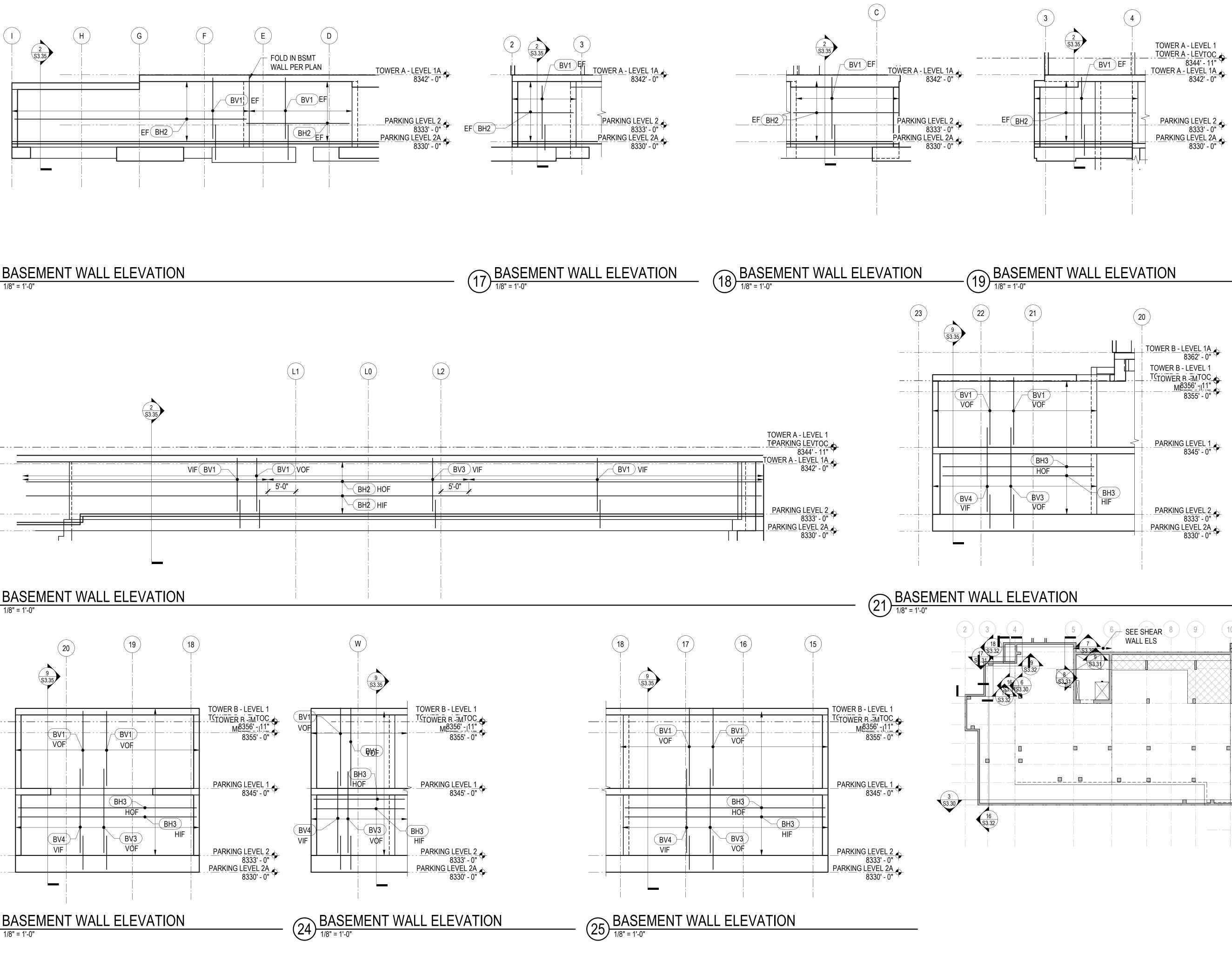
F				 F	R (S 9 (S3.35)											
						BH2 EF					,	VIF BV1	•	BV1	VOF	
VIF	BV1	B	V1 VOF						sb,TY	P		VIF BV4	 	BV3	VOF	
	BV4)	 B	V4 VOF]										EF
						BH1 EF				-		L	 		 	
				1												

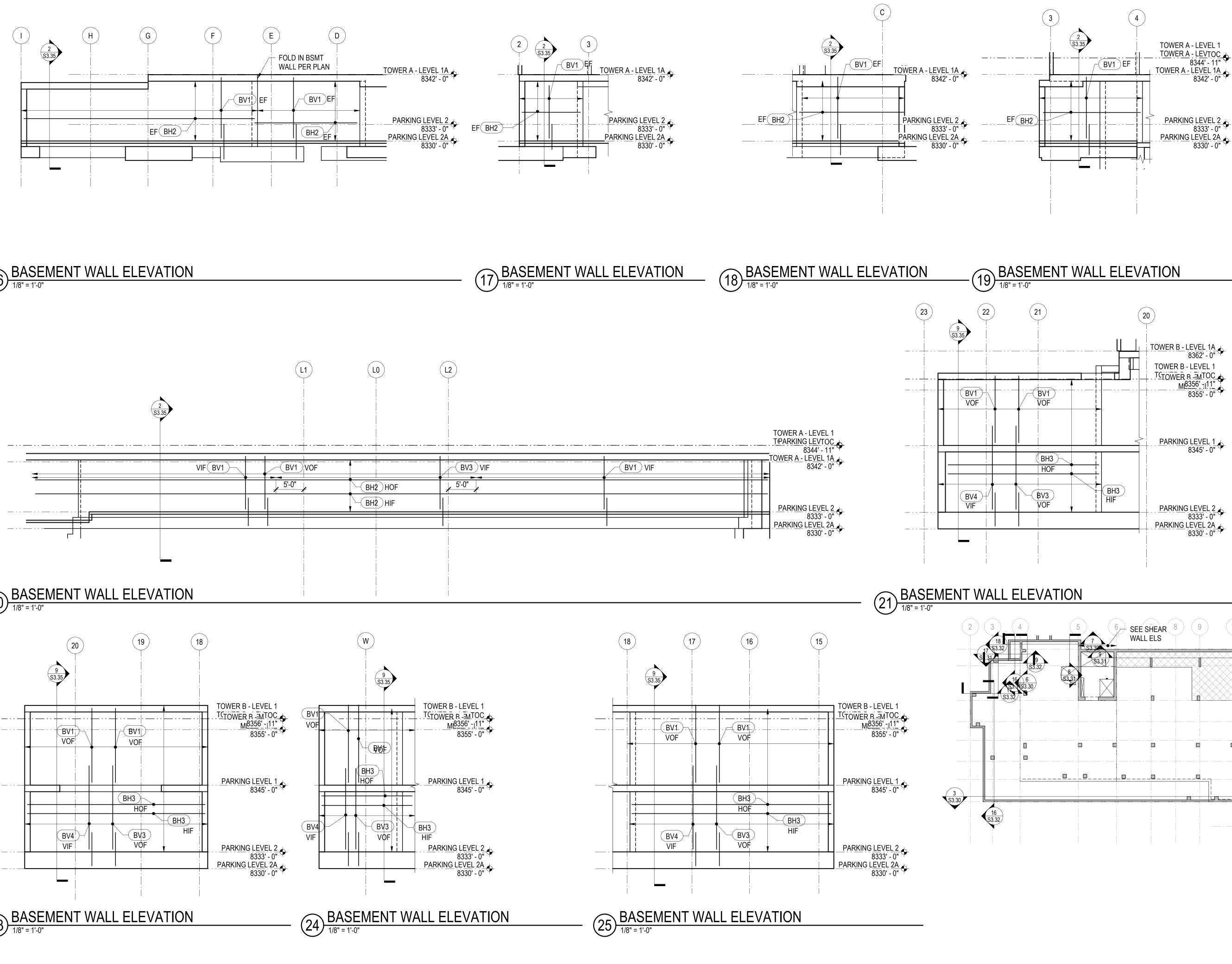


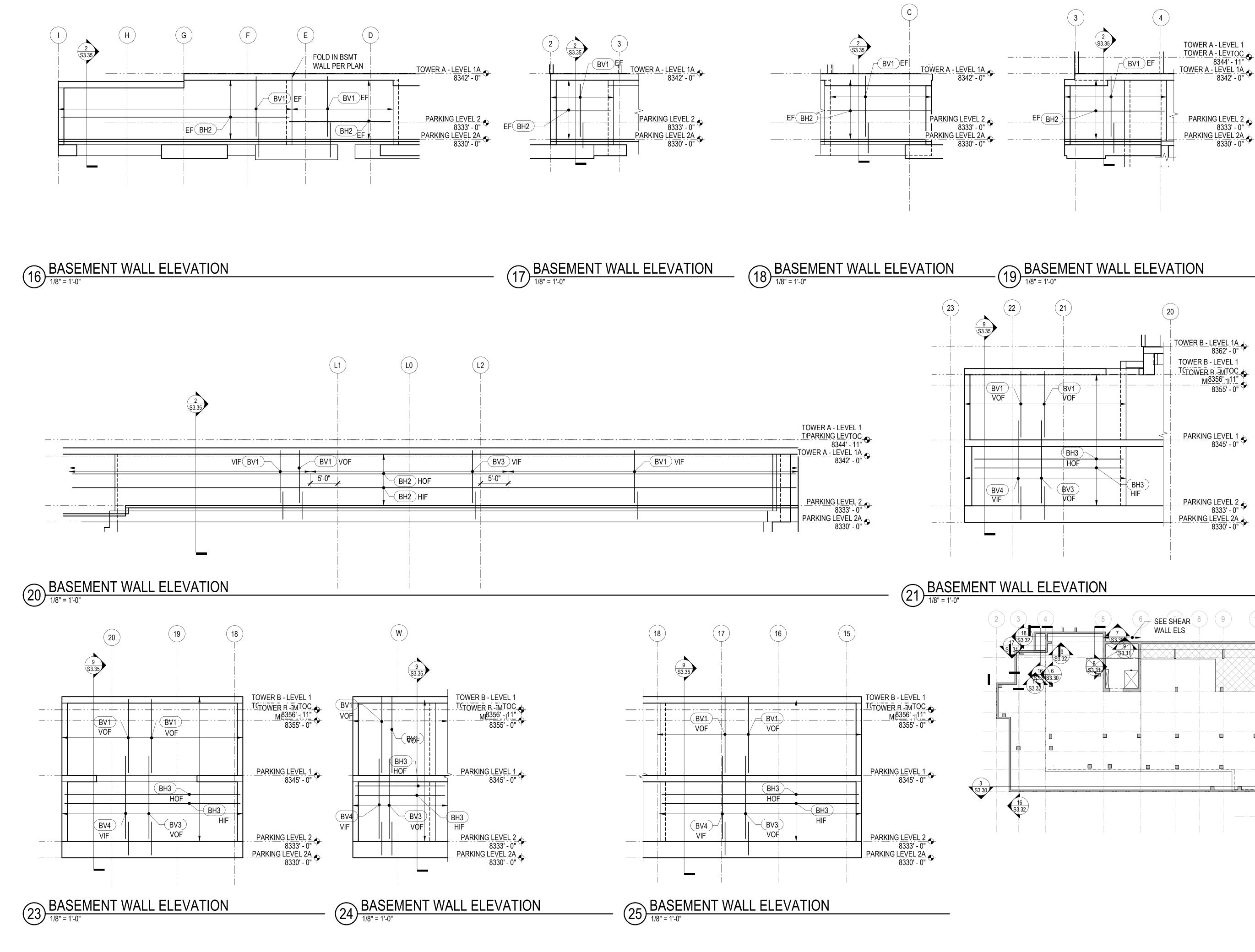




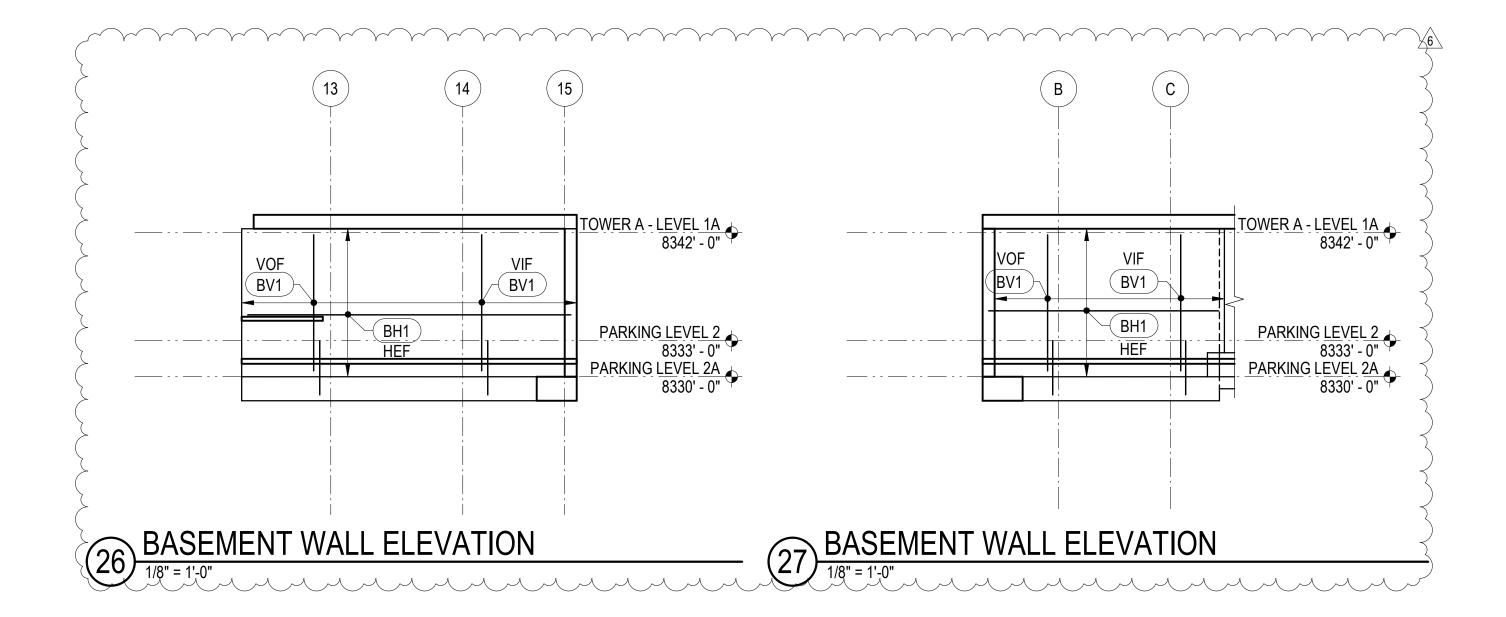




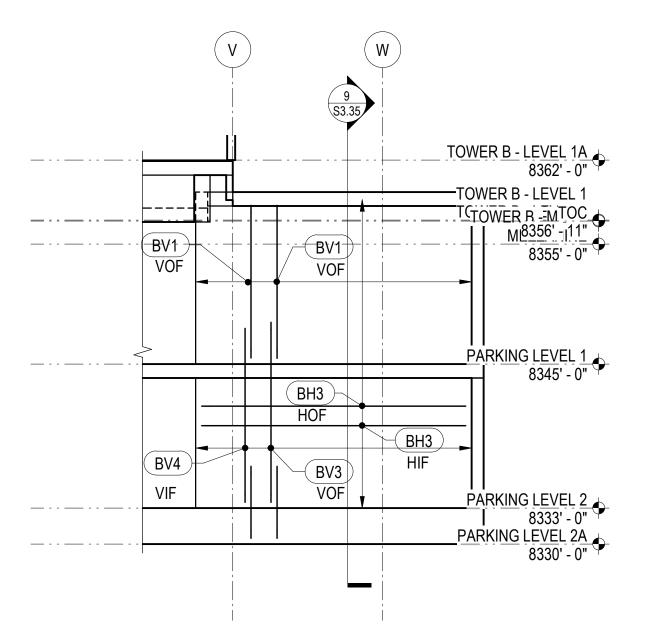




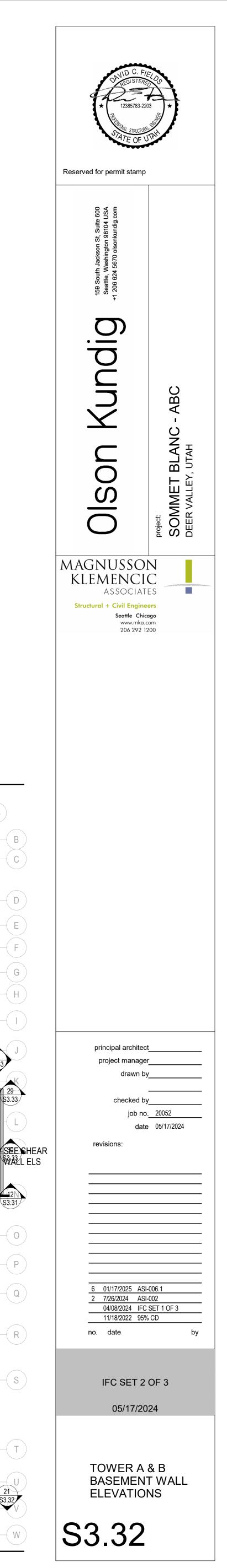


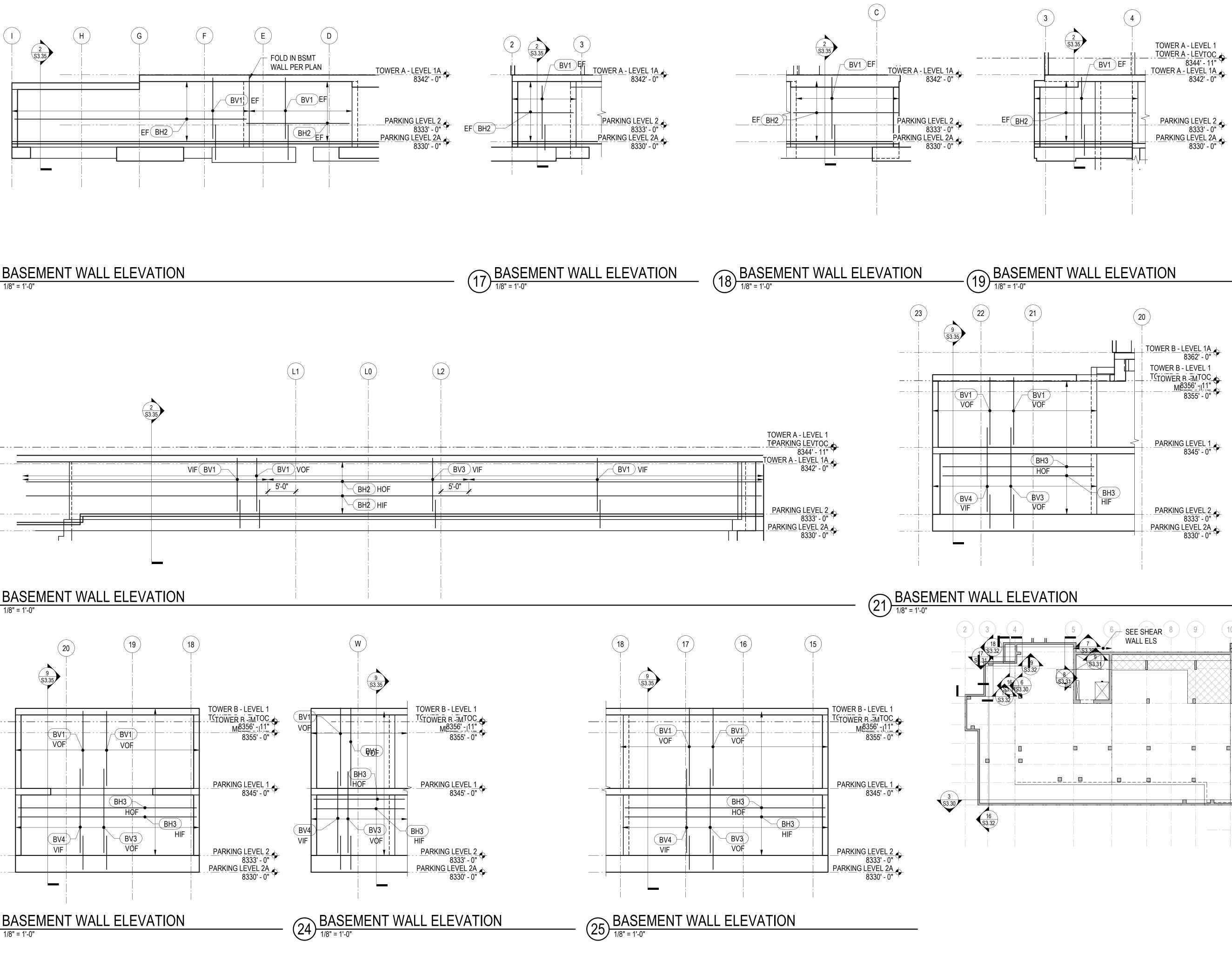


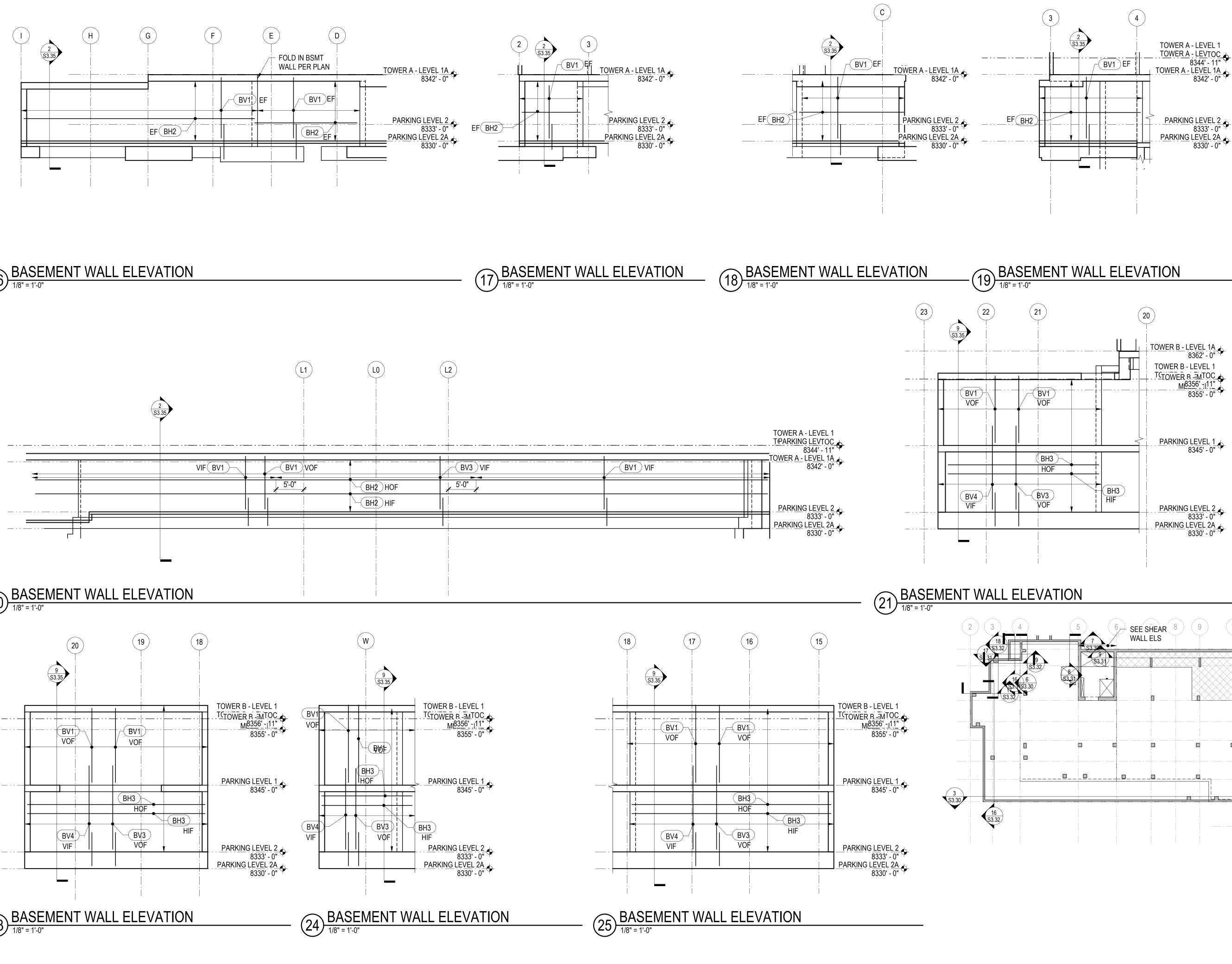
BASEMENT
MARK
BV1
BV2
BV3
BV4
BV5
BV6

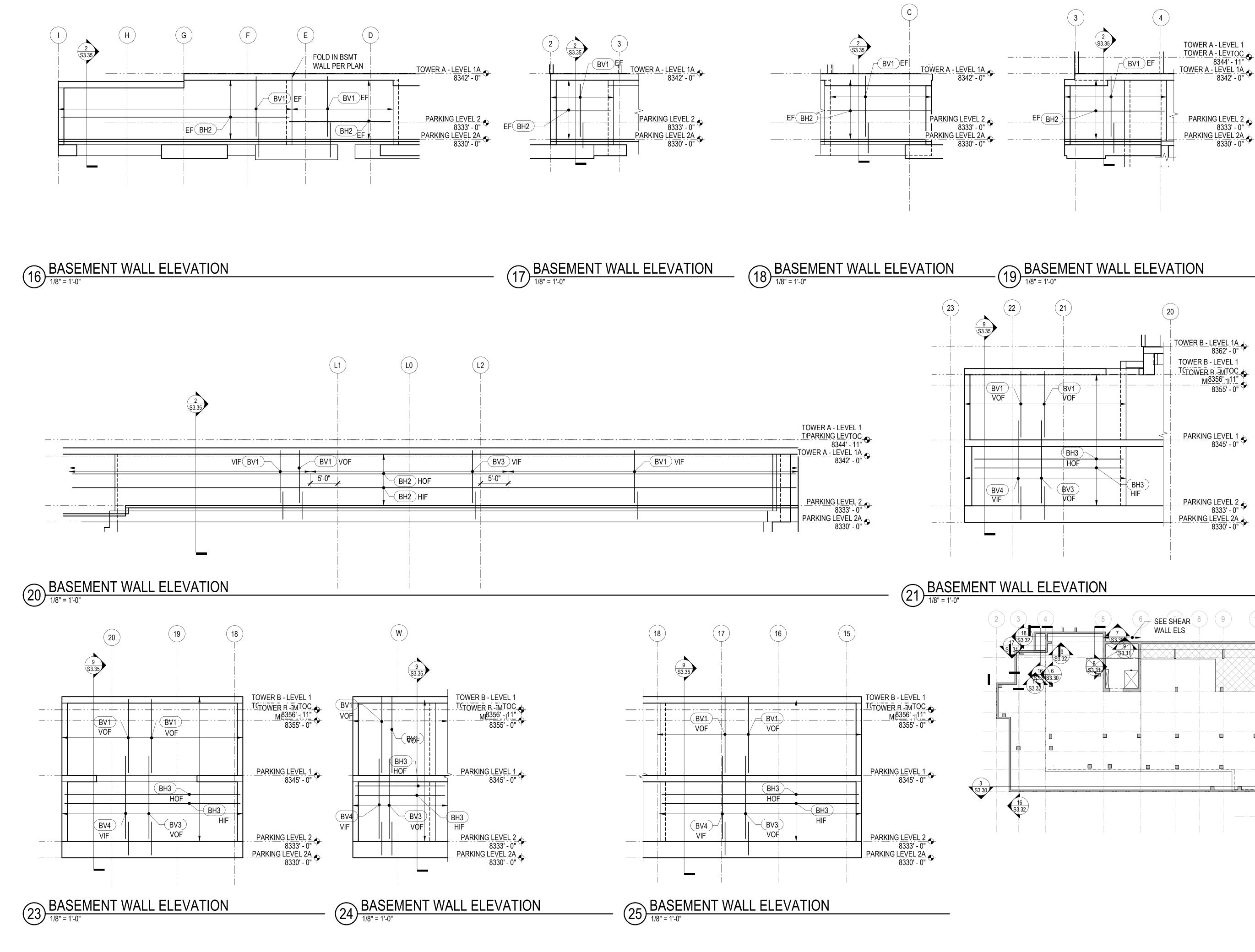


- 22 BASEMENT WALL ELEVATION (21)(22)(23) -1SEE SHEAR WALL ELS)(19)(20) ____| S3.33 ---. • SPE CHEAR - - --- -T WALL VERTICAL REINFORCEMENT BASEMENT WALL HORIZONTAL REINFORCEMENT REMARKS REINFORCING REMARKS MARK REINFORCING #6 @ 12" BH1 #5 @ 12" #7 @ 12" BH2 #4 @ 12" #8 @ 12" BH3 #4 @ 10" #7 @ 6" BH4 #7 @ 12" #8 @ 6" #9@6" **S3.** PARKING LEVEL 2 - KEY PLAN

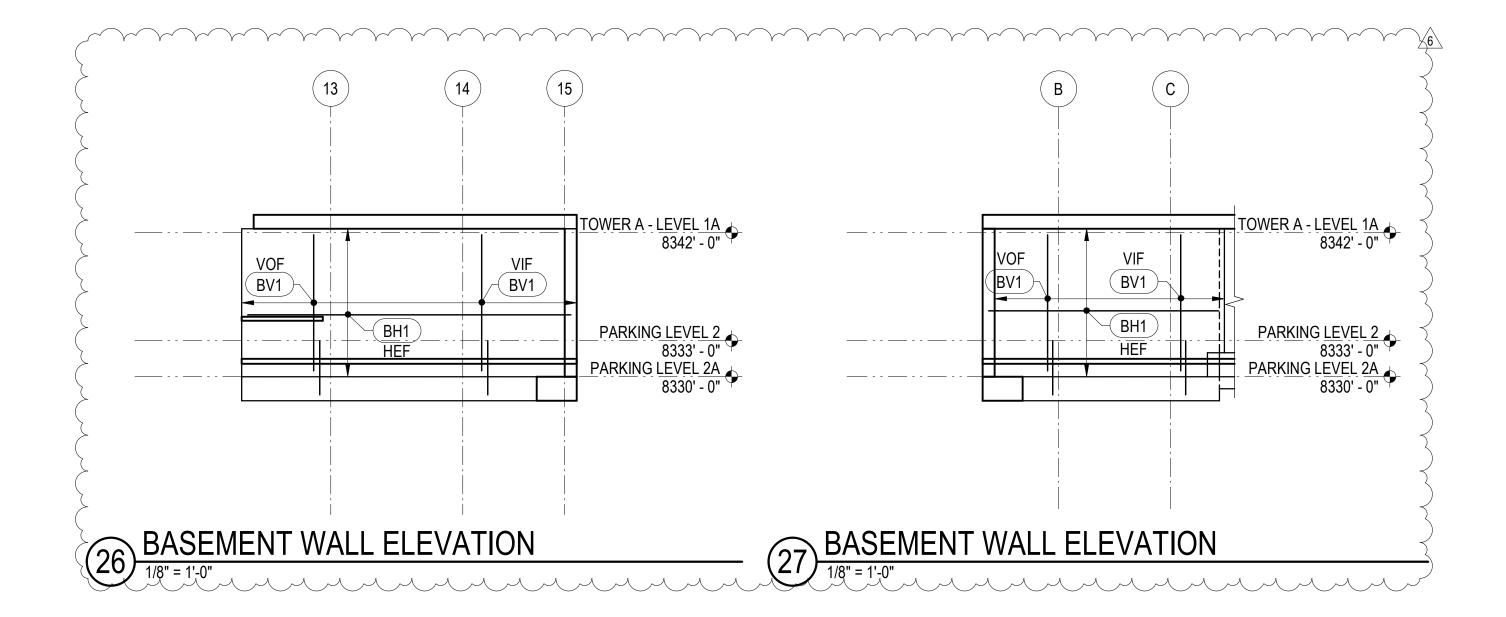




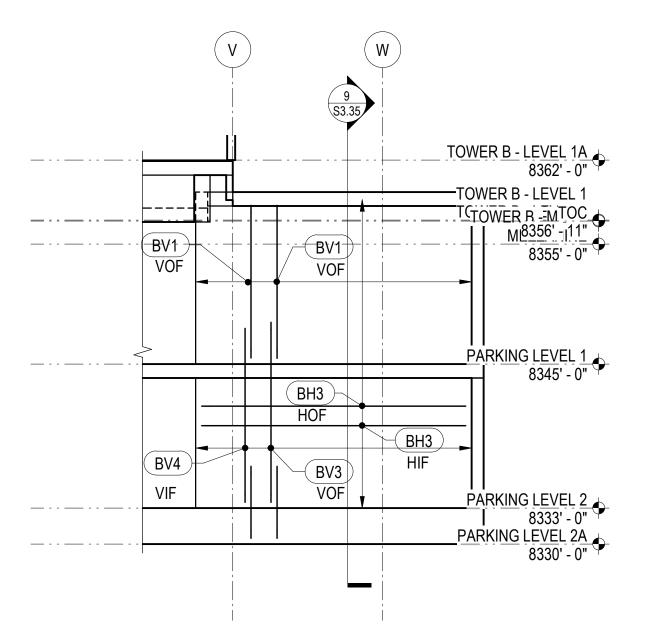




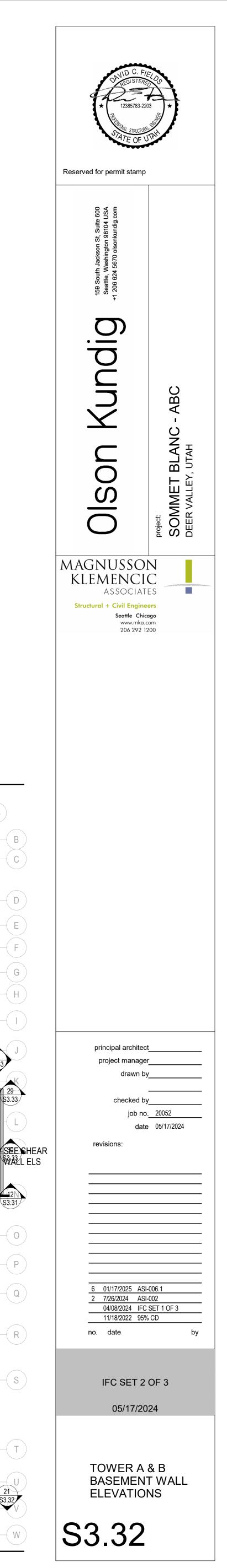


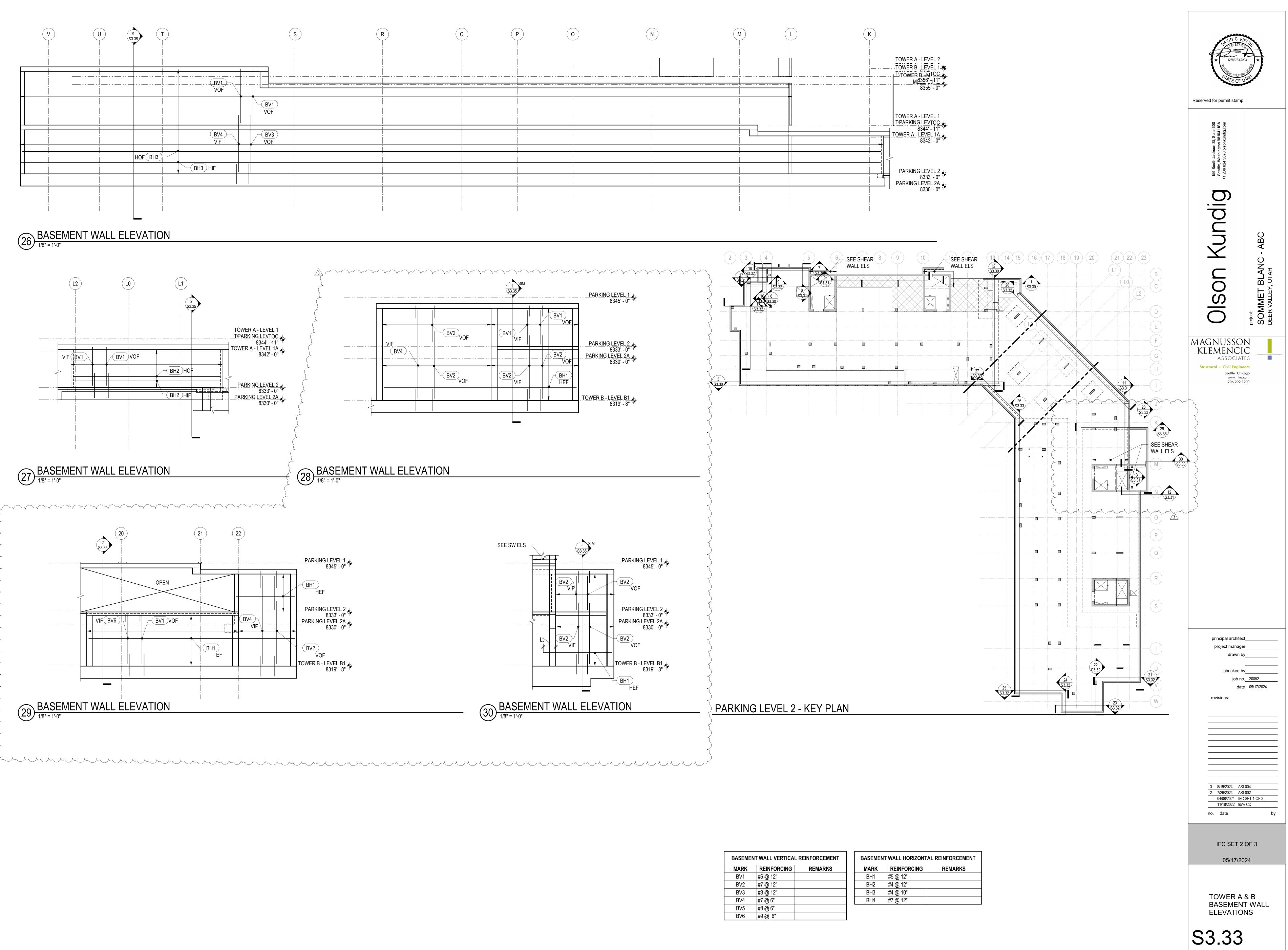


BASEMENT
MARK
BV1
BV2
BV3
BV4
BV5
BV6

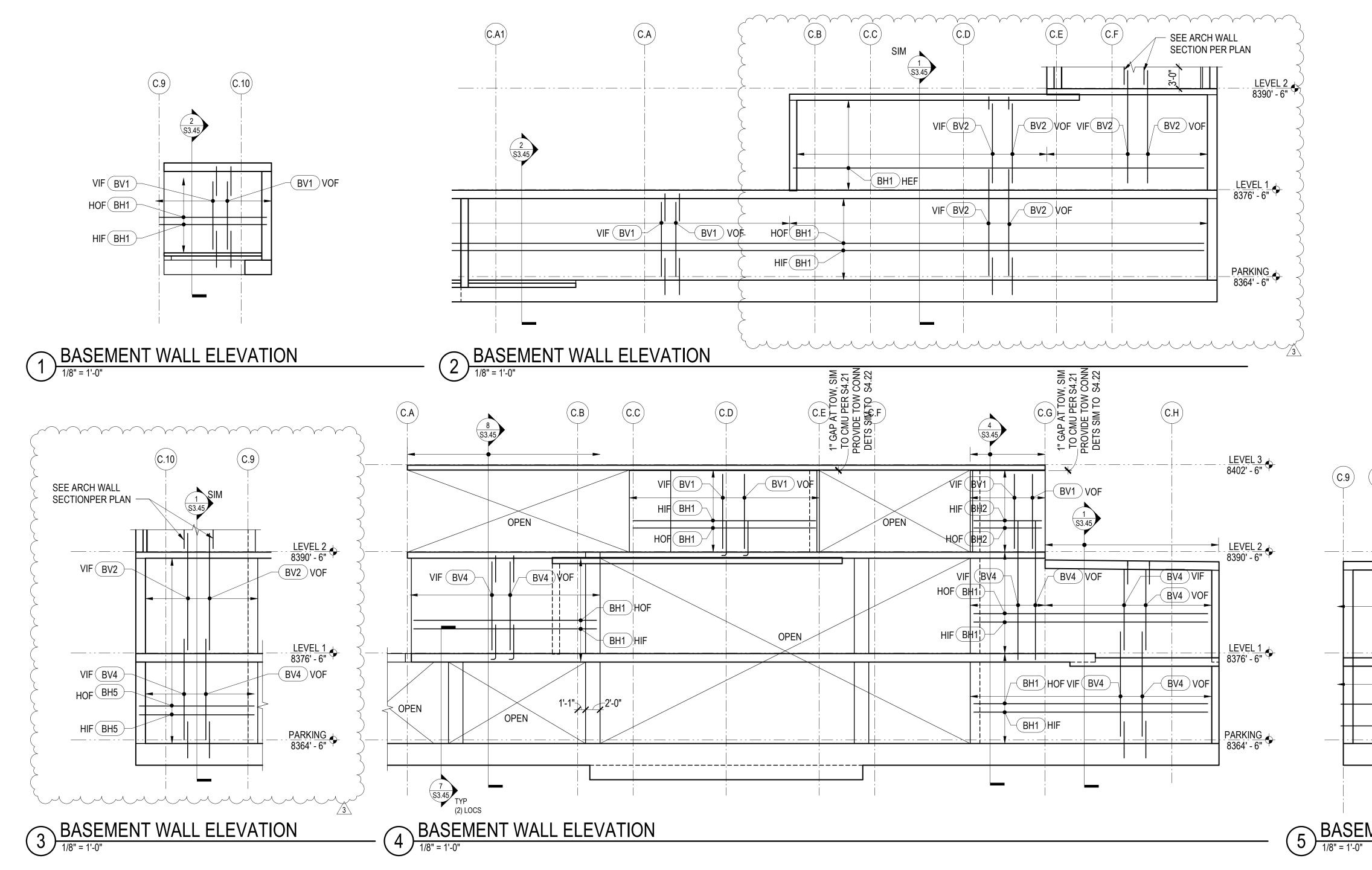


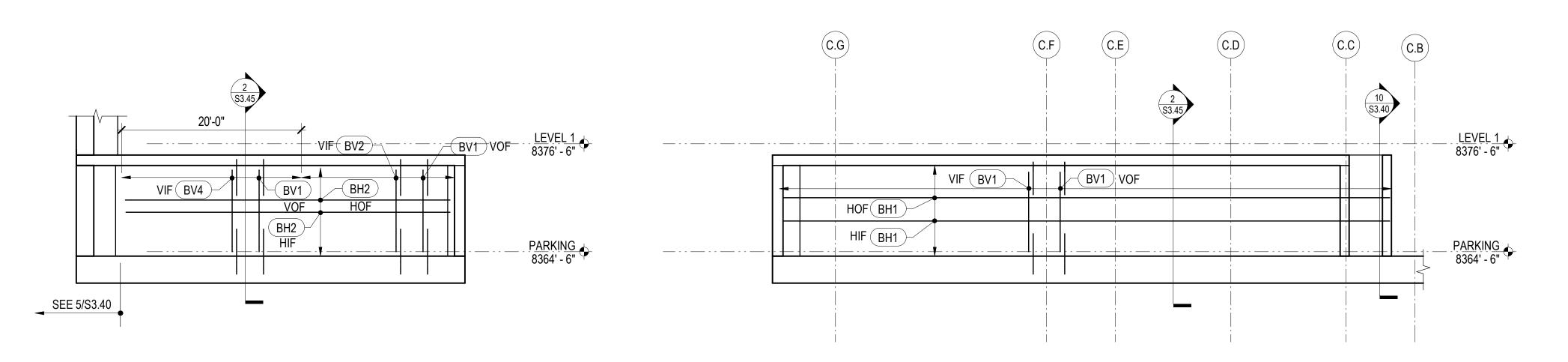
- 22 BASEMENT WALL ELEVATION (21)(22)(23) -1SEE SHEAR WALL ELS)(19)(20) ____| S3.33 ---. • SPE CHEAR - - --- -T WALL VERTICAL REINFORCEMENT BASEMENT WALL HORIZONTAL REINFORCEMENT REMARKS REINFORCING REMARKS MARK REINFORCING #6 @ 12" BH1 #5 @ 12" #7 @ 12" BH2 #4 @ 12" #8 @ 12" BH3 #4 @ 10" #7 @ 6" BH4 #7 @ 12" #8 @ 6" #9@6" **S3.** PARKING LEVEL 2 - KEY PLAN

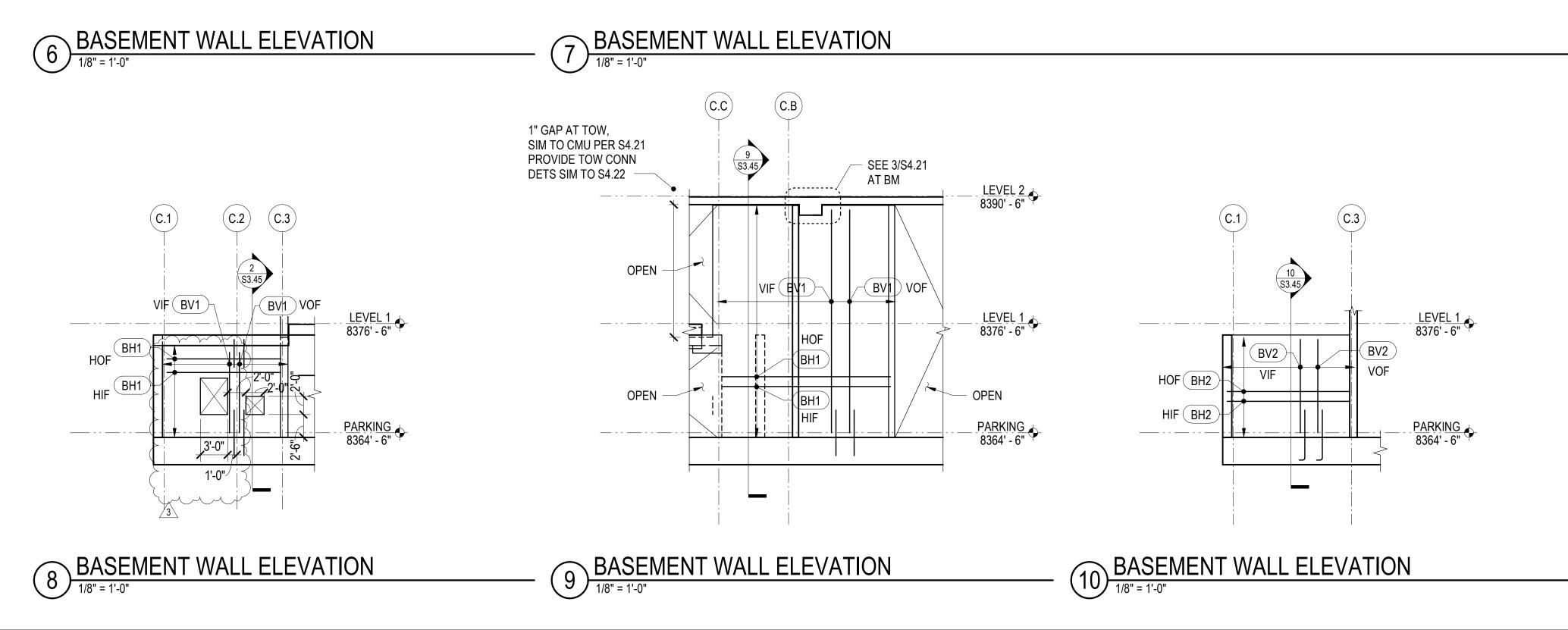




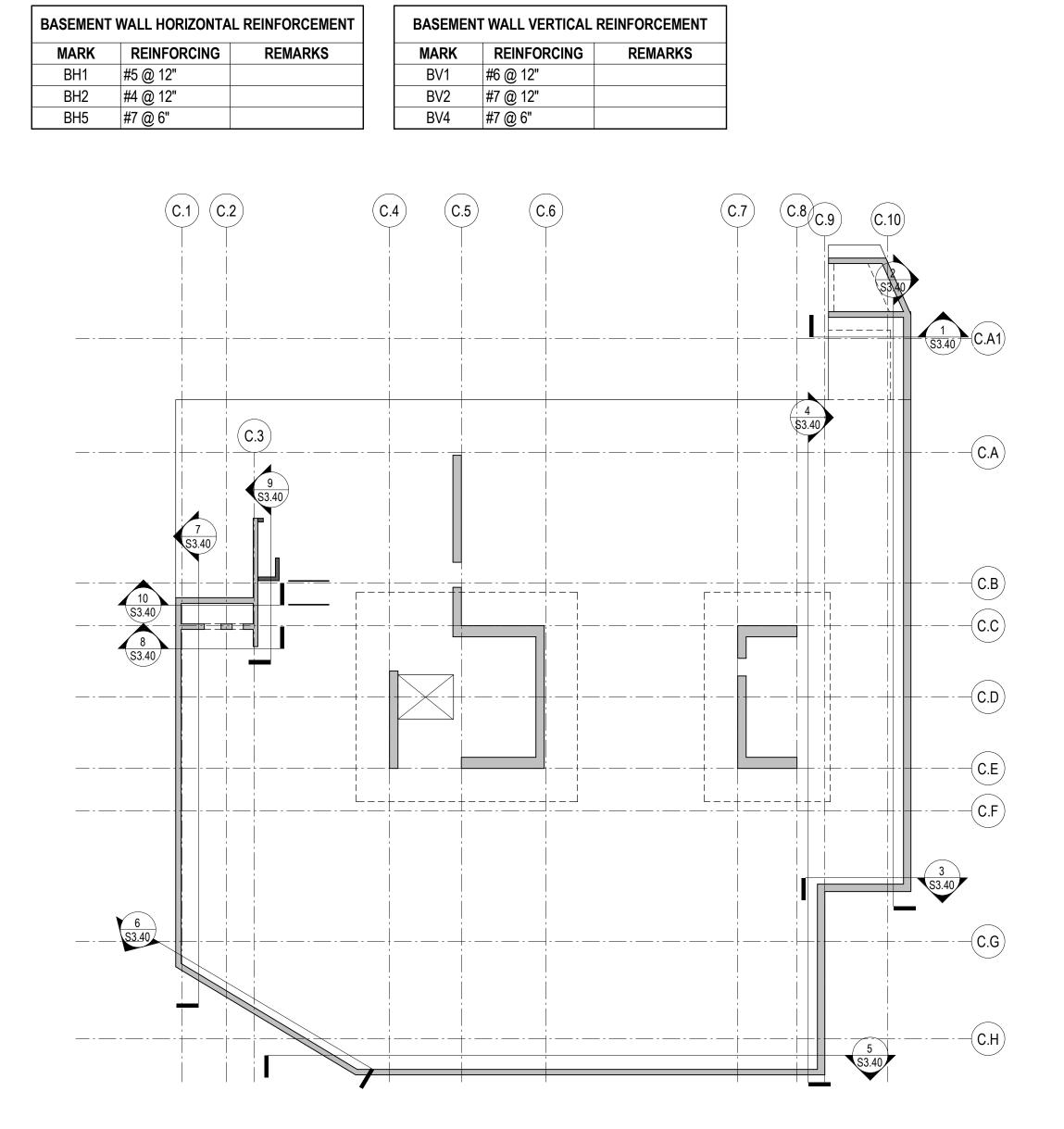
BASEME	NT WALL VERTICAL	REINFORCEMENT		BASEMEN	IT WALL HORIZONT	AL REINF
MARK	REINFORCING	REMARKS		MARK	REINFORCING	RE
BV1	#6 @ 12"		1	BH1	#5 @ 12"	
BV2	#7 @ 12"		1	BH2	#4 @ 12"	
BV3	#8 @ 12"		1	BH3	#4 @ 10"	
BV4	#7 @ 6"			BH4	#7 @ 12"	
BV5	#8 @ 6"		1.		•	
BV6	#9 @ 6"		1			



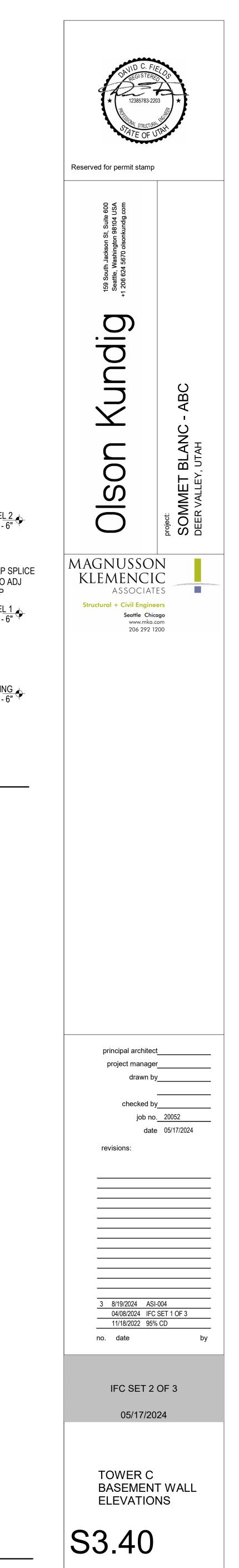




TOWER C - BASEMENT WALL ELEVATION KEY PLAN



) (C.8) (C.7)		(C.6)	(C.5)	(C.4)
	1 <u>\$3.45</u>			
	VIF BV1	V1 VOF		KINK & BARS WALL,
			••••••••••••••••••••••••••••••••••••••	
	VIF BV4	V4 VOF	BH2 HOF BH2 HIF	
				P/ 83
		 		SEE 6/S3.40



16 TOWER C CONCRETE COLUMN SCHEDULE

					ТО	VER C CONCRETE C	OLUMN SCHEDULE						
LEVEL 8	18"x32" [11]	↑		18"x32" [11]	1		18"x32" [11]		↑	18"x32" [14]			
LEVEL 7	1			↑			↑			↑	↑		
LEVEL 6 LEVEL 5 LEVEL 4													
LEVEL 5													
8 LEVEL 4							18"x32" [5]						
" LEVEL 3		12"x48" [12]		18"x32" [5]	12"x48" [12]		^					18"x24" [4]	$\square \qquad \uparrow$
LEVEL 2		30"x39 1/2" [13]	\uparrow	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

11 TOWER B CONCRETE COLUMN SCHEDULE

									TO	WER B CONCRETE	COLUMN SCHEDUL	E									
LEVEL 7	1	↑	1	1	18"x32" [1]	1	1	1	↑	1	1	1	1	1						↑	
LEVEL 6					▲																
LEVEL 5																					
र LEVEL 4																					
EVEL 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]							
و LEVEL 2		32"x32" [2]		1	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]			1			18"x32" [5]	↑			│ 1	\uparrow			\uparrow				18"x32" [5]
LEVEL P1	18"x32" [4]		18"x32" [4]	24"x24" [6]	18"x32" [4]	24"x24" [6]		24"x24" [6]	\uparrow			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

6 TOWER A CONCRETE COLUMN SCHEDULE

									TOWER A CO	NCRETE COLUMN	SCHEDULE									
LEVEL 6	1	18"x32" [1]		1	▲	│ ↑	\uparrow											\uparrow		
LEVEL 5		1	1					18"x32" [4]	18"x32" [1]	\uparrow	1					↑			1	
ନ୍ଦ୍ର LEVEL 4								↑	↑											
g LEVEL 3			18"x32" [4]		18"x32" [5]	24"x24" [3]	24"x24" [3]			18"x32" [5]								24"x24" [3]		
و س LEVEL 2	24"x24" [3]	18"x32" [5]	32"x32" [2]		32"x32" [2]	24"x54" [7]	24"x32" [15]					\uparrow				24"x24" [3]		24"x32" [3]	24"x24" [3]	
္မ LEVEL 1	1		1					18"x32" [5]			24"x24" [3]	18"x32" [5]		18"x32" [5]	24"x24" [3]		12"x60" [8]			(18"x32" [5]
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
		A02	703	704				700				ACIZ	A013	7014				ACTO	AC19	A020

\cup	
$\overline{(1)}$	CONCRETE COLUMN TYPES
	REFER TO "TYPICAL CONCRETE COLUMN SPIRAL REINFORCING" FOR ADDITIONAL DETAILING REQUIRMENTS.
3.	CIRCULAR TIES SHALL ALTERNATE POSITION OF LAPS 180 DEGREES EVERY OTHER HOOP.

ALONG THE LONGITUDINAL REINFORCEMENT. 2 CIDCUL AD TIES SHALL ALTEDNATE DOSITION OF LADS 180 DECREES EVEDY OTHER HOOD

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

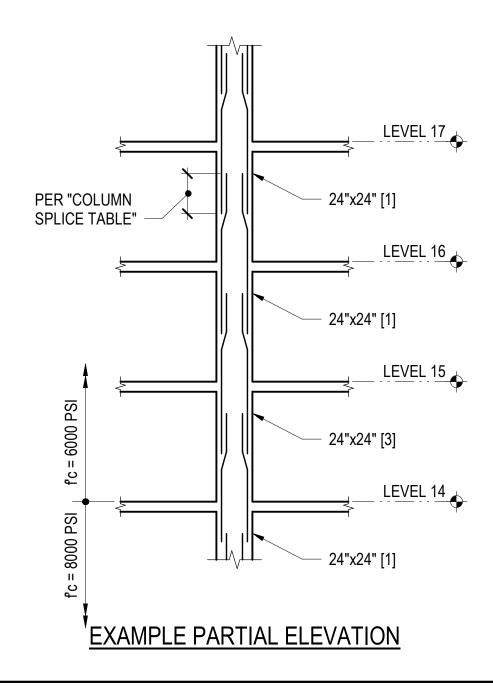
TYPE	LONGIT Fy	TRANSV Fy	VERT REINF	TIE CONFIG	VERT CONFIG	LOC 1 TIES	LOC 2 TIES
	-						
1	60	80	(12) #9	3x5 (s)	3x5	#4 @ 4 1/2"	#5 @ 4"
2	60	80	(16) #8	5x5	5x5	#4 @ 6"	#5 @ 5 1/2"
3	60	80	(8) #8	3x3	3x3	#4 @ 5 1/2"	#5 @ 4 1/2"
4	60	80	(12) #7	3x5 (s)	3x5	#4 @ 4 1/2"	#5 @ 4 1/2"
5	60	80	(10) #7	3x4	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"

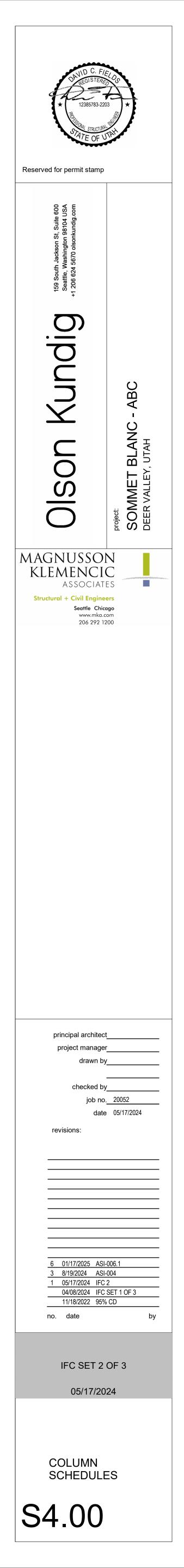
1 1/2" CLR, TYP

<u>TIE CONFIG - 3x4</u> VERT CONFIG - 3x6 <u>SAMF</u>

CONCRETE COLUMN TYPE SCHEDULE

SPIRAL, SEE NOTE 4			CONCRE	TE COLUMN SCHED	
				C1	C2
E CONFIG - 3x4 <u>TIE CONFIG - TIE</u> <u>TIE CONFIG - SPIRAL</u>			LEVEL 20	↑ T	 ↑
RT CONFIG - 3x6VERT CONFIG - CIRCVERT CONFIG - CIRC			CEVEL 19		
SAMPLE CONFIGURATIONS			S LEVEL 18		
SAMI EL CONTIGURATIONS	CONCRETE COLUMN SCHEDULE KEY:		و LEVEL 17		24"x24" [1]
			ူင္ LEVEL 16	24"x24" [1]	↓ ↑
TIE CONFIGURATION KEY:	24"x24" [1]	COLUMN SIZE, TYPE & SPLICE LENGTH	LEVEL 15	24"x24" [3]	<
3x4(s)		& SPLICE LENGTH			1
			LEVEL 13	24",24" [4]	
				24"x24" [1]	
	NOTES:				
D LONG SIDE TIE COUNT SHORT SIDE TIE COUNT			LEVEL 9		
	1. SEE THE FOLLOWING ACCOMPANYING DETAILS:		LEVEL 8	24",x30" [1]	30"x30" [2]
VERTICAL REINF CONFIGURATION KEY:	"TYPICAL CONCRETE COLUMN"				
3x4	"TYPICAL CONCRETE COLUMN BASE DOWELS" "CONCRETE COLUMN TYPES"	EXAMPLE	PARTIAL CONCR	ETE COLUMN	I SCHEDULE
LONG SIDE VERTICAL BAR COUNT	2. VERTICAL REINFORCEMENT SPLICE LENGTHS ARE PER THE "TYPICAL	_ COLUMN SPLICE TABLE" .			
	CONCRETE COLUMN SCHEDULE NC	TES AND SAMPLE COLU	MN SPECIFIC	CATIONS	
	-(3) CONCRETE COLUMIN SCHEDULE NC				





16 TOWER C CONCRETE COLUMN SCHEDULE

					ТО	VER C CONCRETE C	OLUMN SCHEDULE						
LEVEL 8	18"x32" [11]	↑		18"x32" [11]	1		18"x32" [11]		↑	18"x32" [14]			
LEVEL 7	1			↑			↑			↑	↑		
LEVEL 6 LEVEL 5 LEVEL 4													
LEVEL 5													
8 LEVEL 4							18"x32" [5]						
" LEVEL 3		12"x48" [12]		18"x32" [5]	12"x48" [12]		^					18"x24" [4]	$\square \qquad \uparrow$
LEVEL 2		30"x39 1/2" [13]	\uparrow	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

11 TOWER B CONCRETE COLUMN SCHEDULE

									TO	WER B CONCRETE	COLUMN SCHEDUL	E									
LEVEL 7	1	↑	1	1	18"x32" [1]	1	1	1	↑	1	1	1	1	1						↑	
LEVEL 6					▲																
LEVEL 5																					
र LEVEL 4																					
EVEL 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]							
و LEVEL 2		32"x32" [2]		1	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]			1			18"x32" [5]	↑			│ 1	\uparrow			\uparrow				18"x32" [5]
LEVEL P1	18"x32" [4]		18"x32" [4]	24"x24" [6]	18"x32" [4]	24"x24" [6]		24"x24" [6]	\uparrow			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

6 TOWER A CONCRETE COLUMN SCHEDULE

	TOWER A CONCRETE COLUMN SCHEDULE																			
LEVEL 6	1	18"x32" [1]		1	▲	│ ↑	\uparrow											\uparrow		
LEVEL 5		1	1					18"x32" [4]	18"x32" [1]	\uparrow	1					↑			1	
ନ୍ଦ୍ର LEVEL 4								↑	↑											
g LEVEL 3			18"x32" [4]		18"x32" [5]	24"x24" [3]	24"x24" [3]			18"x32" [5]								24"x24" [3]		
و س LEVEL 2	24"x24" [3]	18"x32" [5]	32"x32" [2]		32"x32" [2]	24"x54" [7]	24"x32" [15]					\uparrow				24"x24" [3]		24"x32" [3]	24"x24" [3]	
္မ LEVEL 1	1		1					18"x32" [5]			24"x24" [3]	18"x32" [5]		18"x32" [5]	24"x24" [3]		12"x60" [8]			(18"x32" [5]
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
		A02	703	704	A03			700				ACIZ	A013	7014				ACTO	AC19	A020

\cup	
$\overline{(1)}$	CONCRETE COLUMN TYPES
	REFER TO "TYPICAL CONCRETE COLUMN SPIRAL REINFORCING" FOR ADDITIONAL DETAILING REQUIRMENTS.
3.	CIRCULAR TIES SHALL ALTERNATE POSITION OF LAPS 180 DEGREES EVERY OTHER HOOP.

ALONG THE LONGITUDINAL REINFORCEMENT. 2 CIDCUL AD TIES SHALL ALTEDNATE DOSITION OF LADS 180 DECREES EVEDY OTHER HOOD

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

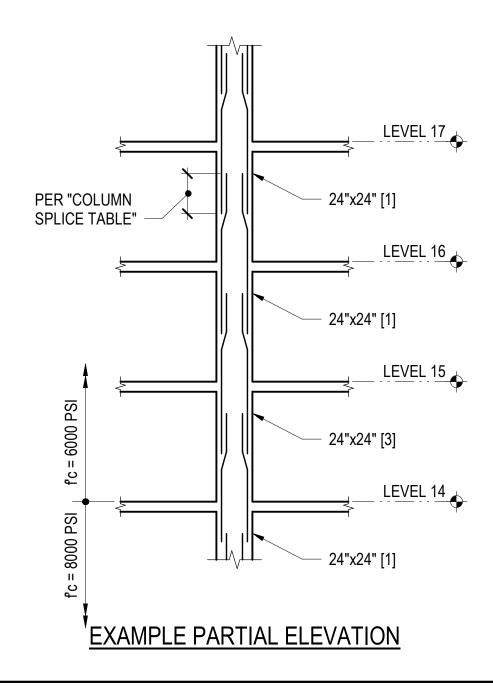
TYPE	LONGIT Fy	TRANSV Fy	VERT REINF	TIE CONFIG	VERT CONFIG	LOC 1 TIES	LOC 2 TIES
	-						
1	60	80	(12) #9	3x5 (s)	3x5	#4 @ 4 1/2"	#5 @ 4"
2	60	80	(16) #8	5x5	5x5	#4 @ 6"	#5 @ 5 1/2"
3	60	80	(8) #8	3x3	3x3	#4 @ 5 1/2"	#5 @ 4 1/2"
4	60	80	(12) #7	3x5 (s)	3x5	#4 @ 4 1/2"	#5 @ 4 1/2"
5	60	80	(10) #7	3x4	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"

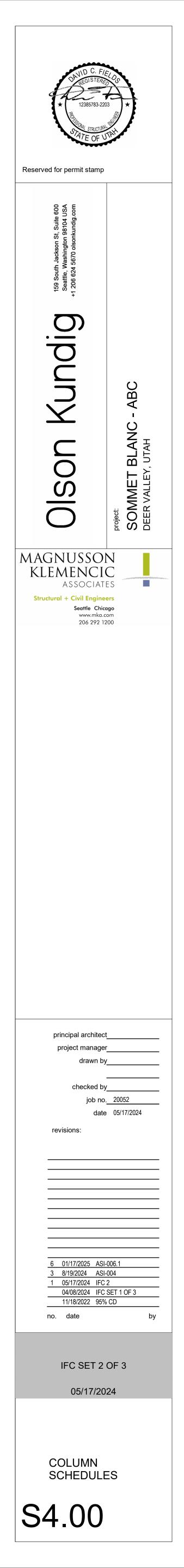
1 1/2" CLR, TYP

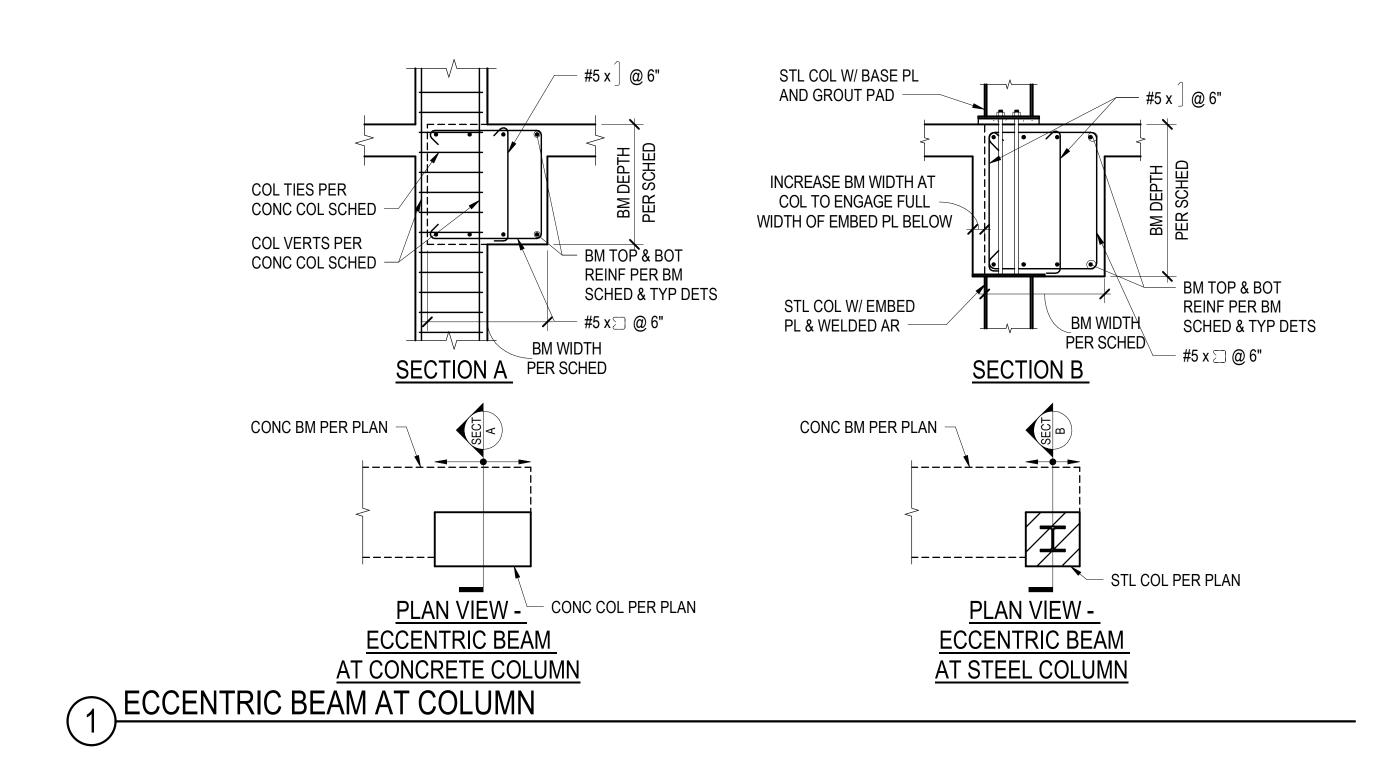
<u>TIE CONFIG - 3x4</u> VERT CONFIG - 3x6 <u>SAMF</u>

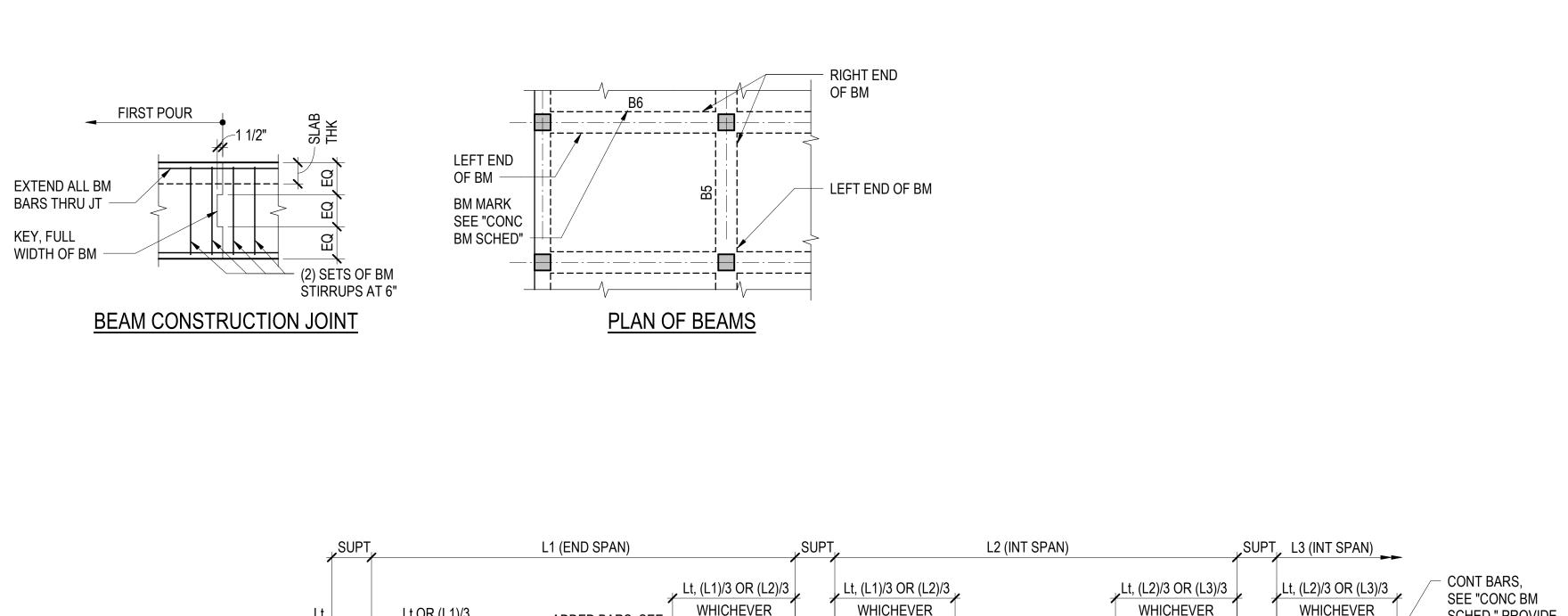
CONCRETE COLUMN TYPE SCHEDULE

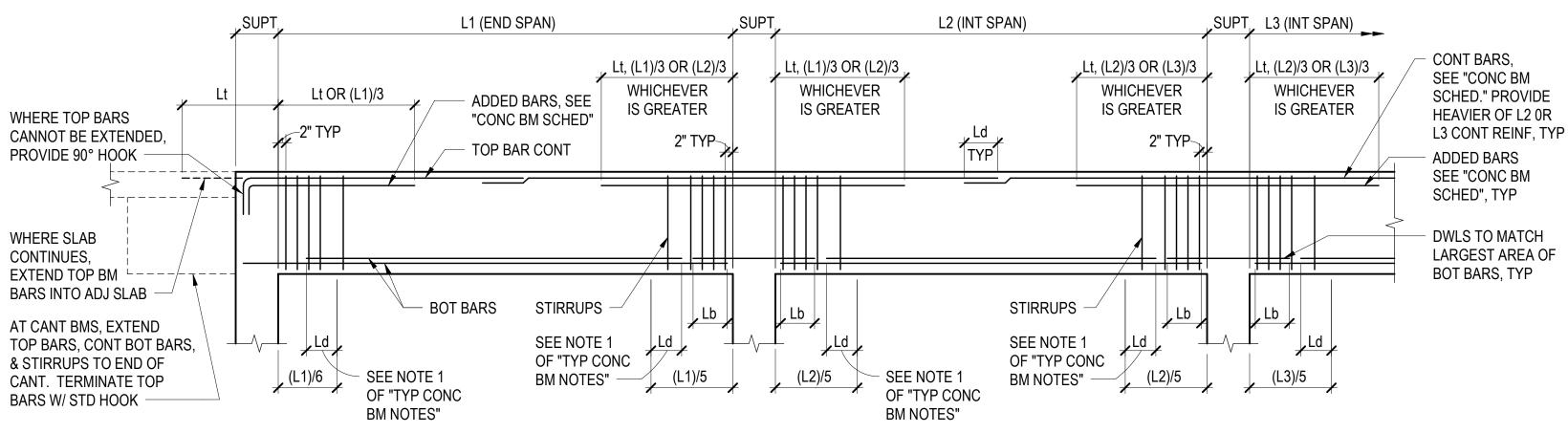
SPIRAL, SEE NOTE 4			CONCRE	TE COLUMN SCHED	
				C1	C2
E CONFIG - 3x4 <u>TIE CONFIG - TIE</u> <u>TIE CONFIG - SPIRAL</u>			LEVEL 20	↑ T	 ↑
RT CONFIG - 3x6VERT CONFIG - CIRCVERT CONFIG - CIRC			CEVEL 19		
SAMPLE CONFIGURATIONS			S LEVEL 18		
SAMI EL CONTIGUNATIONS	CONCRETE COLUMN SCHEDULE KEY:		و LEVEL 17		24"x24" [1]
			ူင္ LEVEL 16	24"x24" [1]	↓ ↑
TIE CONFIGURATION KEY:	24"x24" [1]	COLUMN SIZE, TYPE & SPLICE LENGTH	LEVEL 15	24"x24" [3]	<
3x4(s)		& SPLICE LENGTH			1
			LEVEL 13	24",24" [4]	
				24"x24" [1]	
	NOTES:				
D LONG SIDE TIE COUNT SHORT SIDE TIE COUNT			LEVEL 9		
	1. SEE THE FOLLOWING ACCOMPANYING DETAILS:		LEVEL 8	24",x30" [1]	30"x30" [2]
VERTICAL REINF CONFIGURATION KEY:	"TYPICAL CONCRETE COLUMN"				
3x4	"TYPICAL CONCRETE COLUMN BASE DOWELS" "CONCRETE COLUMN TYPES"	EXAMPLE	PARTIAL CONCR	ETE COLUMN	I SCHEDULE
LONG SIDE VERTICAL BAR COUNT	2. VERTICAL REINFORCEMENT SPLICE LENGTHS ARE PER THE "TYPICAL	_ COLUMN SPLICE TABLE" .			
	CONCRETE COLUMN SCHEDULE NC	TES AND SAMPLE COLU	MN SPECIFIC	CATIONS	
	-(3) CONCRETE COLUMIN SCHEDULE NC				

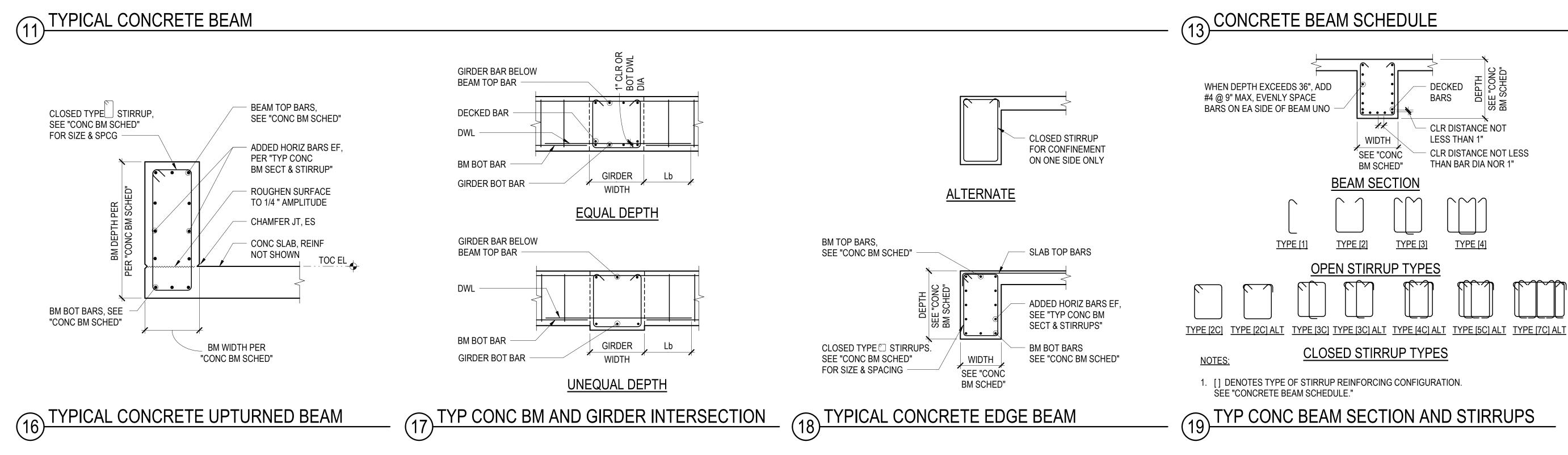












NOTES:

- 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

TYPICAL CONCRETE BEAM NOTES

BEAM REINFORCING ELEVATION

B1	(WIDTHxDEPTH) 12"x18"	CAMBER
B1 B2	24"x24"	
B3	24"x24"	
B5	24"x22" MIN	
B6	24"x26 1/2"	
B7	24 x20 1/2 24"x24"	
B8	24"x24"	
B9	30"x24"	
B10	30"x24"	
B10	30"x22" MIN	
DIZ	JU XZZ IVIIIN	
B13	30"x26 1/2"	
B16	30"x24"	
B17	30"x24"	
B21	30"x22" MIN	
B22	30"x26 1/2"	
B23	30"x26 1/2"	
D23	JU XZU 1/Z	
B26	30"x30"	
B20	30"x30"	
B28	18"x24"	
B20	30"x24"	
B30 B33	30"x24" 24"x32"	
B33 B34	24 x32 24"x24"	
B35	24"x24"	
B37	18"x32"	
B38	24"x32"	
B39	24"x32"	
B40	24"x32"	
B41	34"x30"	
B42	32"x32"	
B44	24"x48"	
B45	24"x48"	
B46	24"x32"	
B47	24"x32"	
B48	24"x50"	
B49	24"x32"	
B50	12"x39"	
B51	18"x32"	
B52	32"x72"	
B53	18"x36"	
B54	24"x32"	
B56	18"x38"	
B57	24"x33"	
B58	30"x36"	
B59	24"x62"	
B61	24"x39"	
B62	24"x74"	
B63	24"x72"	
B64	32"x72"	
B65	24"x60"	
B66	24"x74"	
B67	24"x26"	
B68	24"x61"	
B69	30 1/2"x48"	
B71		
B72		
0.1	40"x42"	
B73	40"x42" 60"x42"	
B73 B74	40"x42" 60"x42" 38 1/2"x24"	
B74	40"x42" 60"x42" 38 1/2"x24" 24"x67"	
B74 B75	40"x42" 60"x42" 38 1/2"x24" 24"x67" 36"x30"	
B74	40"x42" 60"x42" 38 1/2"x24" 24"x67"	
B74 B75	40"x42" 60"x42" 38 1/2"x24" 24"x67" 36"x30"	
B74 B75 B76	40"x42" 60"x42" 38 1/2"x24" 24"x67" 36"x30" 24"x25" MIN	
B74 B75 B76 B77	40"x42" 60"x42" 38 1/2"x24" 24"x67" 36"x30" 24"x25" MIN 72"x18"	
B74 B75 B76 B77 B78	40"x42" 60"x42" 38 1/2"x24" 24"x67" 36"x30" 24"x25" MIN 72"x18" 32"x20"	
B74 B75 B76 B77 B78	40"x42" 60"x42" 38 1/2"x24" 24"x67" 36"x30" 24"x25" MIN 72"x18" 32"x20"	

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

1. SEE "TYPICAL CONCRETE BEAM" DETAIL.

NOTES:

(4) $\pi7$ (6) $\pi9$ $\pi5 \oplus F$ SC ADD (2) μ SDE BAR EA SIDE - SEE SECTION I SEE 1164.03 (3) $\pi7$ (4) $\pi7$ (5) $\pi9$ (5) $\pi7$ (5) $\pi9$ (5) $\pi1$ (4) $\pi7$ (6) $\pi9$ (6) $\pi7$ (6) $\pi9$ (7) $\pi1$ (7) $\pi1$ (4) $\pi7$ (6) $\pi9$ (6) $\pi7$ (7) $\pi1$ (7) $\pi1$ (7) $\pi1$ (4) $\pi7$ (6) $\pi8$ (7) $\pi7$ (7) $\pi1$ (7) $\pi2$ (7) $\pi2$ (7) $\pi2$ (4) $\pi7$ (6) $\pi8$ (7) $\pi7$ (7) $\pi2$ (7) $\pi2$ (7) $\pi2$ (7) $\pi2$ (4) $\pi8$ (4) $\pi8$ (4) $\pi8$ (6) $\pi7$ (7) $\pi2$ (7) $\pi2$ (7) $\pi2$ (4) $\pi7$ (4) $\pi8$	
(3) #7 (4) #7 (4) #7 (4) #7 (4) #7 (4) #7 (4) #7 (4) #7 (4) #7 (4) #7 (6) #8 $\# S \otimes F [2C]$ SEE 1/54.03 (4) #7 (6) #8 $\# S \otimes F [2C]$ SEE 1/54.03 (5) #8 (4) #7 (4) #8 (7) #7 (7) #5 (7) #7	N PER PLAN FOR DEPTH;
(3) #7 $(4) #7$ $(4) #7$ $(6) #7$ $(5) @ F (C)$ EE 184.03 $(4) #7$ $(6) #8$ $(6) @ F (C)$ SEE 184.03 SEE 184.03 $(4) #7$ $(9) #8$ $# @ G [T (C)$ SEE 184.03 SEE 184.03 $(4) #7$ $(9) #8$ $# @ G [T (C)$ SEE 184.03 SEE 184.03 $(4) #8$ $(4) #8$ $# @ G [T (C)$ SEE 184.03 SEE 184.03 $(5) #8$ $(6) #8$ $# @ G [T (C)$ SEE 184.03 SEE 184.03 $(3) #7$ $(6) #8$ $# @ G [T (C)$ SEE 184.03 SEE 184.03 $(4) #7$ $(4) #8$ $# @ G [T (C)$ SEE 184.03 SEE 184.03 $(6) #8$ $(4) #8$ $# @ G [T (C)$ SEE 184.03 SEE 184.03 $(6) #8$ $(4) #8$ $# @ G [T (C)$ SEE 184.03 SEE 184.03 $(6) #8$ $(4) #8$ $# @ G [T (C)$ SEE 184.03 SEE 184.03 $(6) #8$ $# G [T (C)$ SEE 184.03 SEE 184.03 SEE 184.03 $(6) #8$ $# G [T (C)$ SEE 184.03 SEE 184.0	
(4) #7 (6) #8 $45 \otimes 2^{+} \Gamma C$ SEE 1/S4.03 (4) #7 (9) #8 $45 \otimes 10^{+} 2C$ SEE 1/S4.03 (4) #8 (4) #8 (4) #8 $45 \otimes 10^{+} 2C$ SEE 1/S4.03 (4) #8 (4) #8 (4) #8 (4) #8 (5) #8 (5) #8 (5) #8 (5) #8 (5) #7 (3) #7 (3) #7 (3) #7 (3) #7 (3) #7 (5) #8 (4) #8 (4) #8 (4) #8 (4) #8 (4) #8 (4) #8 (4) #8 (4) #8 (4) #8 (4) #8 (4) #8 (5) #8 (5) #8 (5) #8 (5) #8 (5) #8 (5) #7 CO (5) #8 (6) #8 (5) #8 (5) #8 (5) #8 (5) #8 (5) #8 (5) #8 (5) #8 (5) #8 (4) #8 <	
(4) #7 (9) #3 #5 @ 0'1/20 SEE 1/S4.03 (4) #8 (3) #7 #5 @ 0'1/20 SEE 1/S4.03 (4) #8 (4) #8 #5 @ 0'1/20 SEE 1/S4.03 (5) #8 (5) #8 #5 @ 0'1/20 SEE 1/S4.03 (6) #7 (3) #7 #5 @ 0'1/20 SEE 1/S4.03 (4) #7 (4) #8 #5 @ 0'1/20 SEE 1/S4.03 (4) #7 (4) #8 #5 @ 0'1/20 SEE 1/S4.03 (6) #8 (4) #8 #5 @ 0'1/20 SEE 1/S4.03 (6) #8 (4) #8 #5 @ 0'1/20 SEE 1/S4.03 (6) #8 (4) #8 #5 @ 0'1/20 SEE 1/S4.03 (6) #8 (6) #8 #5 @ 0'1/20 SEE 1/S4.03 (3) #7 (3) #7 #4 @ 14'1/30 SEE 1/S4.03 (3) #8 (6) #8 #4 @ 14'1/30 SEE 1/S4.03 (3) #8 (3) #8 #4 @ 14'1/30 SEE 1/S4.03 (3) #8 (3) #7 #4 @ 14'1/30 SEE 1/S4.03 (3) #8 (3) #7 #4 @ 14'1/30 SEE 1/S4.03 (4) #8	
(4) #8 (3) #7 $#5 \oplus 10^{\circ} [2C]$ SEE 1/S4.03 (4) #8 (4) #8 (4) #8 (4) #8 (5) %6 $#5 \oplus 10^{\circ} [2C]$ SEE 1/S4.03 (3) #7 (3) #7 (4) #8 (5) %6 $#5 \oplus 10^{\circ} [2C]$ SEE 1/S4.03 (4) #8 (4) #8 (4) #8 (5) $\oplus 12C$ SEE 1/S4.03 (4) #8 (4) #8 (4) #8 (5) $\oplus 12C$ SEE 1/S4.03 (6) #9 (4) #8 (4) #8 (4) %9 (4) #3 (4) %9 (6) #8 (6) #8 (6) #8 (6) #8 (7) %7 (7) %7 (7) #8 (7) #7 (4) 49 (4) 41 (1C) (7) %7 (7) %7 (3) #7 (3) #7 (4) 49 (41 (1G) (7) %7 (7) %7 (7) %7 (3) #8 (3) #8 (3) #8 (4) 41 (1G) (7) %7 (7) %7 (7) %7 (4) #8 (2) #8 (3) #9 (4) 41 (1G) (7) %7 (7) %7 (7) %7 (4) #8 (2) #8 (7) %7 (7) %7 (7) %7 (7) %7 (7) %7 (4) #8 (2) #8 (7) %7 (7) %7 (7) %7 <	
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(5) #8 (5) #8 #5 @ 10" [C] SEE IVS4.03 (4) #7 (4) #8 #5 @ 5" [2] (4) #8 (4) #8 (4) #8 (5) #8 (6) #8 (6) #9 (4) #8 (4) #8 (6) #8 (7) [2] (6) #9 (4) #8 (6) #8 (6) #8 (7) [2] (6) #8 (6) #8 (6) #8 (7) [2] (7) [2] (3) #7 (3) #7 (4) #8 (7) [2] (7) [2] (3) #8 (6) #8 (6) #8 (7) [2] (7) [2] (3) #7 (3) #7 (4) 48 [4] [3] (7) [2] (7) [2] (3) #8 (3) #8 (4) 48 [4] [3] (7) [2] (7) [2] (3) #8 (3) #8 (3) #8 (4) 48 [4] [3] (7) [2] (7) [2] (3) #8 (3) #7 (4) 48 [4] [3] (7) [4] [3] (7) [4] [3] (7) [4] [3] (7) [4] [3] (4) #8 (4) #8 (4) #8 (4) #8 (4) #8 (4) #8 (4) #8 (7) [4] [4] [3] (7) [4] [4] [3] (7) [4] [4] [3] (7) [4] [4] [4] [3] (7) [4] [4] [6] [4] [4] [3] (7) [4] [4] [6] [4] [4] [3] (7) [4] [4] [6]	
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(6) $\#9$ (4) $\#3$ $\#5 \otimes 9' [3C]$ (6) $\#3$ (6) $\#3$ $\#5 \otimes 9' [3C]$ (4) $\#3$ (6) $\#3$ $\#4 \otimes [4' [4C]$ (3) $\#7$ (3) $\#7$ (3) $\#7$ $\#4 \otimes [4' [4C]$ (3) $\#3$ (3) $\#8$ $\#4 \otimes [4' [3C]$ (3) $\#3$ (3) $\#3$ (3) $\#8$ $\#4 \otimes [4' [3C]$ (3) $\#3$ (3) $\#3$ (3) $\#3$ (3) $\#3$ (4) $\#4 \otimes [4' [3C]$ (3) $\#3$ (3) $\#3$ (4) $\#4 \otimes [4' [3C]$ (4) $\#3$ (3) $\#3$ (3) $\#3$ $\#4 \otimes [4' [3C]$ (4) $\#3$ (4) $\#3$ (4) $\#8$ $\#4 \otimes [4' [3C]$ (4) $\#3$ (4) $\#3$ (4) $\#3$ (5) $\#1$ $\#4 \otimes [4' [3C]$ (4) $\#3$ (3) $\#1$ (4) $\#3$ (2) $\#3$ $\#5 \otimes [12]$ (4) $\#3$ (3) $\#2$ $\#4 \otimes [14' [3C]$ (4) $\#3$ (4) $\#3$ (3) $\#3$ $\#4 \otimes [14' [3C]$ (3) $\#1$ (4) $\#3$ (3) $\#3$ $\#4 \otimes [14' [3C]$ (3) $\#1$ (4) $\#3$ (4) $\#3$ $\#4 \otimes [14' [3C]$ (3) $\#3$	
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(4) $#9$ (4) $#9$ #4 @ 14" [4C] (3) $#7$ (3) $#7$ (3) $#7$ (3) $#8$ (3) $#8$ #4 @ 14" [3C] (3) $#8$ (3) $#8$ #4 @ 14" [3C] (3) $#8$ (3) $#8$ #4 @ 14" [3C] (3) $#8$ (3) $#9$ #4 @ 14" [3C] (3) $#8$ (3) $#9$ #4 @ 14" [3C] (3) $#7$ (3) $#7$ #4 @ 14" [3C] (4) $#8$ (4) $#8$ (4) $#8$ (2) $#7$ (3) $#7$ #4 @ 14" [3C] (4) $#8$ (4) $#8$ (4) $#8$ (3) $#7$ (3) $#7$ #4 @ 14" [3C] (4) $#8$ (2) $#8$ (3) $#7$ (3) $#7$ (3) $#7$ #4 @ 14" [3C] (3) $#7$ (3) $#7$ #4 @ 14" [3C] (3) $#9$ (3) $#7$ (4) $#9$ (4) $#9$ (3) $#7$ (4) $#9$ (4) $#9$ (3) $#7$ (4) $#9$ (4) $#9$ (3) $#7$ (4) $#9$ (4) $#9$ (4) $#9$ (4) $#7$ (5) $#11$ (5) $#11$ #4 @ 14" [3C] (6) $#11$ (6) $#11$	
(3) #7 (3) #7 #4 @ 14" [SC] (3) #8 (3) #8 (3) #8 #4 @ 14" [SC] (3) #8 (3) #9 (5) #9 #4 @ 14" [SC] (3) #8 (3) #9 (3) #9 #4 @ 14" [SC] (3) #8 (3) #9 (3) #9 #4 @ 14" [SC] (3) #9 (3) #9 #4 @ 14" [SC]	
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(3) #8 (3) #9 #4 @ 14" [3C] (3) #9 (3) #9 #4 @ 14" [3C] (3) #7 (3) #7 #4 @ 14" [3C] (4) #8 (4) #8 #4 @ 14" [3C] (14) #11 (3) #10 (4) #10 (3) #10 (4) #8 (2) #8 #5 @ 6" [4C] (4) #8 (2) #8 #5 @ 6" [4C] (3) #7 (3) #7 #4 @ 14" [3C] (3) #9 (3) #9 #4 @ 14" [3C] (3) #9 (3) #9 #4 @ 14" [3C] (3) #9 (3) #9 #4 @ 14" [3C] (4) #9 (3) #7 (13) #5 @ 6" [4C] (13) #5 @ 6" [3C] (4) #9 (3) #7 (13) #5 @ 6" [4C] (13) #5 @ 6" [3C] (6) #10 (6) #8 #4 @ 14" [3C] [13] #5 @ 6" [4C] (5) #11 (5) #11 #4 @ 14" [3C] [14] #1 [4C] (6) #11 (6) #11 (6) #11 #4 @ 14" [3C] (5) #11 (6) #11 [6] #11 #4 @ 14" [3C] (5) #11 (6) #11 #4 @ 14" [3C] [16] #1 (6) #11 (6) #11 #4 @ 14" [3C] [16] #1 (6) #11 <td></td>	
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(5) #11 (5) #11 #4 @ 14" [3C] (8) #11 (8) #11 #5 @ 8" [4C] (6) #11 (6) #9 #5 @ 14" [4C] (5) #11 (5) #11 #4 @ 14" [3C] (5) #11 (5) #11 #4 @ 14" [3C] (3) #8 (3) #8 #4 @ 14" [3C] (4) #9 (4) #9 #4 @ 14" [4C] (4) #11 (4) #11 #4 @ 14" [4C] (11) #18 (6) #11 (6) #11 #6 @ 4" [4C] (11) #11 (6) #11 (6) #11 #5 @ 6" [7C] (3) #7 (3) #8 #5 @ 6" [2C] SEE DETAIL 18/S5.05 (5) #9 (5) #9 (5) #9 #5 @ 9" [3C]	
(8) #11 (8) #11 #5 @ 8" [4C] (6) #11 (6) #9 #5 @ 14" [4C] (5) #11 (5) #11 #4 @ 14" [3C] (3) #8 (3) #8 #4 @ 14" [3C] (4) #9 (4) #9 #4 @ 14" [4C] (4) #11 (4) #11 #4 @ 14" [4C] (11) #18 (6) #11 (6) #11 (6) #11 (11) #18 (6) #11 (6) #11 #5 @ 6" [7C] (3) #7 (3) #8 #5 @ 6" [2C] SEE DETAIL 18/S5.05 (5) #9 (5) #9 #5 @ 9" [3C] SEE DETAIL 18/S5.05	
(6) #11 (6) #9 #5 @ 14" [4C] (5) #11 (5) #11 #4 @ 14" [3C] (3) #8 (3) #8 #4 @ 14" [3C] (4) #9 (4) #9 #4 @ 14" [4C] (4) #11 (4) #11 #4 @ 14" [4C] (11) #18 (6) #11 (6) #11 (11) #18 (6) #11 (6) #11 (14) #11 (6) #11 (6) #11 (14) #11 (8) #9 #5 @ 6" [7C] (3) #7 (3) #8 #5 @ 6" [2C] SEE DETAIL 18/S5.05 (5) #9 (5) #9 #5 @ 9" [3C]	
(5) #11 (5) #11 #4 @ 14" [3C] (3) #8 (3) #8 (3) #8 #4 @ 14" [3C] (4) #9 (4) #9 (4) #9 #4 @ 14" [4C] (4) #1 (4) #11 (4) #11 #4 @ 14" [4C] (4) #1 (11) #18 (6) #11 (6) #11 (6) #11 #6 @ 4" [4C] (14) #11 (8) #9 #5 @ 6" [7C] (4) #50.05 (3) #7 (3) #8 #5 @ 6" [2C] SEE DETAIL 18/S5.05 (5) #9 (5) #9 #5 @ 9" [3C] (5) #50.05	
(3) #8 (3) #8 #4 @ 14" [3C] (4) #9 (4) #9 #4 @ 14" [4C] (4) #11 (4) #11 #4 @ 14" [4C] (11) #18 (6) #11 (6) #11 (11) #18 (6) #11 (6) #11 (14) #11 (8) #9 #5 @ 6" [7C] (3) #7 (3) #8 #5 @ 6" [2C] SEE DETAIL 18/S5.05 (5) #9 (5) #9 #5 @ 9" [3C] #5 @ 9" [3C]	
(4) #9 (4) #9 #4 @ 14" [4C] (4) #11 (4) #11 #4 @ 14" [4C] (11) #18 (6) #11 (6) #11 #6 @ 4" [4C] (14) #11 (6) #11 (6) #11 #6 @ 4" [4C] (14) #11 (8) #9 #5 @ 6" [7C] EE DETAIL 18/S5.05 (3) #7 (3) #8 #5 @ 9" [3C] SEE DETAIL 18/S5.05	
(4) #11 (4) #11 #4 @ 14" [4C] (11) #18 (6) #11 (6) #11 #6 @ 4" [4C] (14) #11 (8) #9 #5 @ 6" [7C] (3) #7 (3) #8 #5 @ 6" [2C] SEE DETAIL 18/S5.05 (5) #9 (5) #9 #5 @ 9" [3C]	
(11) #18 (6) #11 (6) #11 (6) #11 #6 @ 4" [4C] (14) #11 (8) #9 #5 @ 6" [7C] (3) #7 (3) #8 #5 @ 6" [2C] SEE DETAIL 18/S5.05 (5) #9 (5) #9 (5) #9 #5 @ 9" [3C]	
(14) #11 (8) #9 #5 @ 6" [7C] (3) #7 (3) #8 #5 @ 6" [2C] SEE DETAIL 18/S5.05 (5) #9 (5) #9 #5 @ 9" [3C] #5 @ 9" [3C]	
(3) #7 (3) #8 #5 @ 6" [2C] SEE DETAIL 18/S5.05 (5) #9 (5) #9 #5 @ 9" [3C] #5 @ 9" [3C]	
(5) #9 (5) #9 #5 @ 9" [3C]	
(4) #9(4) #8#5 @ 9" [3C]25" MINIMUM DEPTH; BOTTOM OF BEAM FLAT TOP OF BEAM STEPS WITH SLAB	AT AT ELEVATION 8373'-9"
(6) #6 (2) #6 (2) #6 #5 @ 18" [2] REINF SIM TO 18/S4.05. SEE PLAN FOR ADDEI	DED TOP BAR AT END
(4) #9 (5) #9 #5 @ 6" [3C]	
(3) #9 (3) #9 #5 @ 6" [2C] CLOSED STIRRUPS ARE TO BE CONTINUOUS, [2C ALT] ALLOWED. SEE DETAIL 08/S5.02	JS, NO CAP/TIE PER
(4) #9 (4) #9 (4) #9 #5 @ 12" [3C]	

CONCRETE BEAM SCHEDULE

LEFT

STIRRUPS

RIGHT

SEE 1/S4.03

REMARKS

SEE SECTION PER PLAN FOR DEPTH; SEE 1/S4.03

SEE SECTION PER PLAN FOR DEPTH; SEE 1/S4.03

ADD (2) #4 SIDE BAR EA SIDE; SEE 1/S4.03

ADD (3) #4 SIDE BAR EA SIDE;SEE 1/S4.03

ADD (3) #5 SIDE BAR EA SIDE; SEE 1/S4.03

ADD (3) #4 SIDE BAR EA SIDE; SEE 1/S4.03

CONTINUOUS

#4 @ 6" [2C]

#5 @ 9" [3C]

#6 @ 5" [3C]

#5 @ 9" [3C]

#5 @ 9" [3C]

#5 @ 9" [3C]

#5 @ 9" [3C]

#5 @ 6" [3C]

#4 @ 9" [4C]

#6 @ 6" [3C]

#6 @ 6" [3C]

TOP BARS

(2) #7

(7) #8

(3) #8

(9) #9

(4) #9

(10) #9

(5) #10

(7) #9

(7) #9

(9) #10

(10) #10

(6) #8

(9) #8

(10) #10

(10) #10

CONTINUOUS RIGHT

(2) #7

(4) #8

(5) #9

(5) #10

BOTTOM

BARS

(2) #7

(3) #8

(4) #8

(3) #8

(3) #8

(3) #8

(8) #10

(4) #7

(4) #7

(4) #7

(5) #7

(4) #7

(4) #7

(4) #7

(6) #8

LEFT

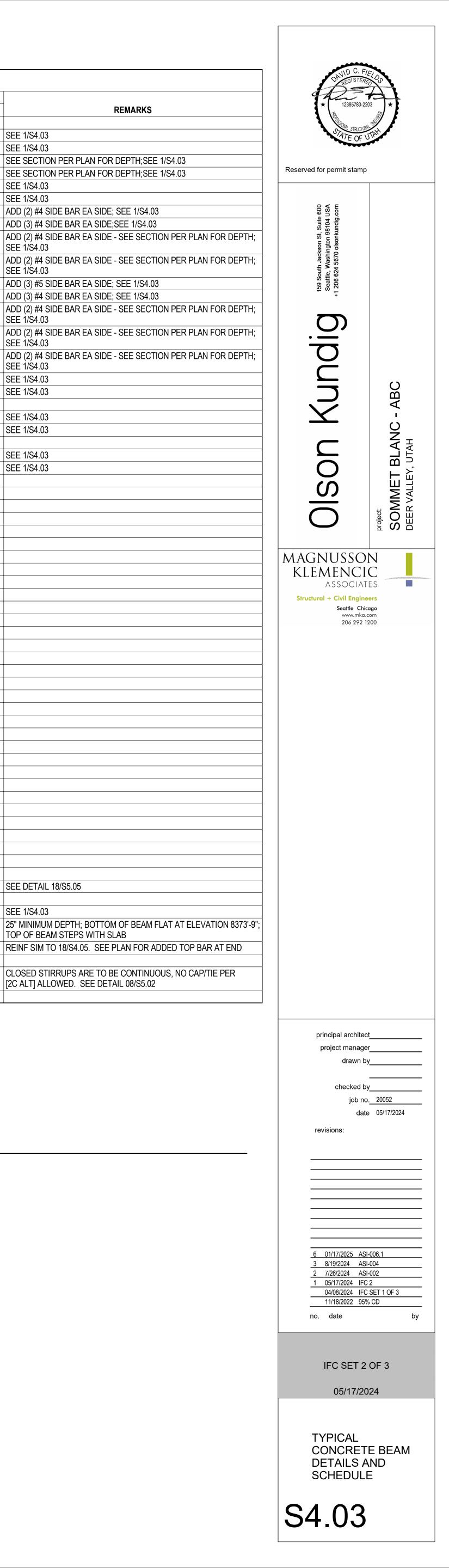
(2) #7

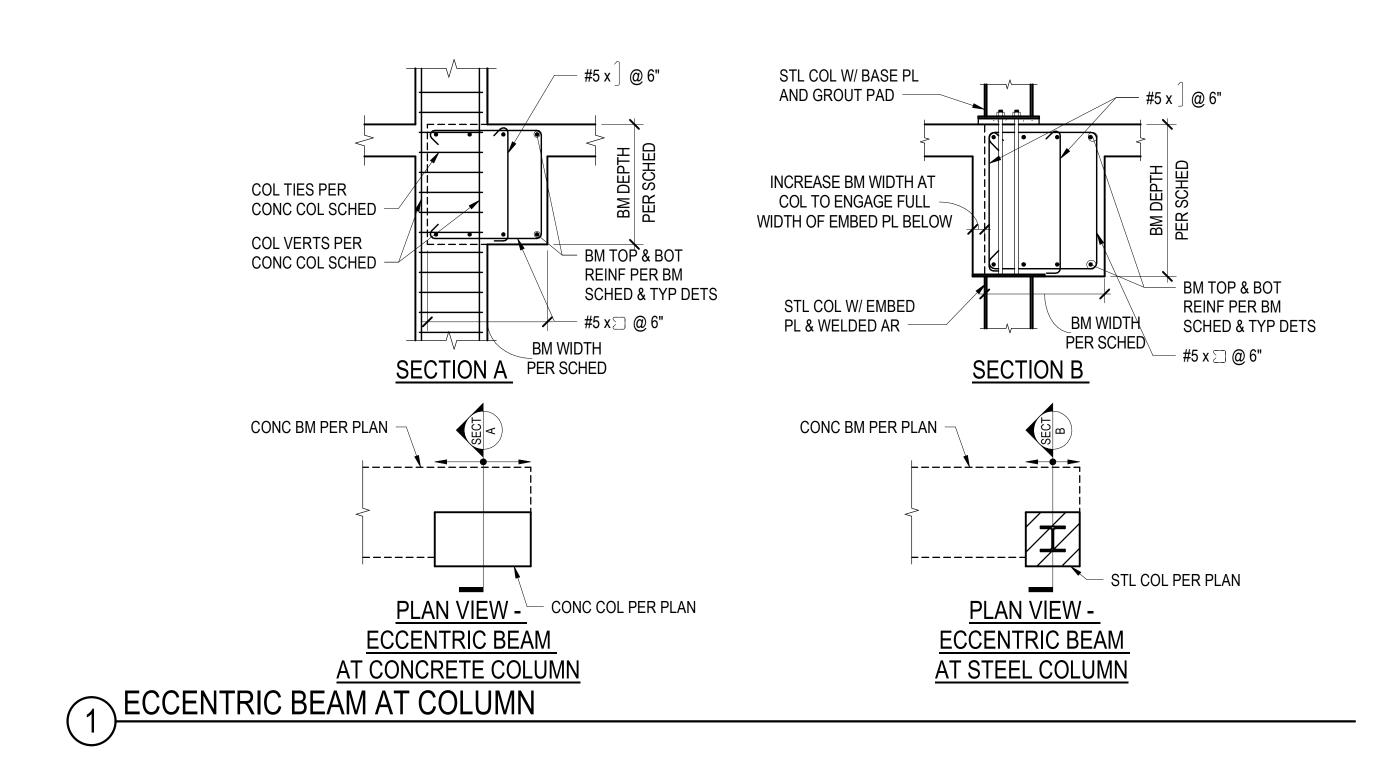
(4) #8

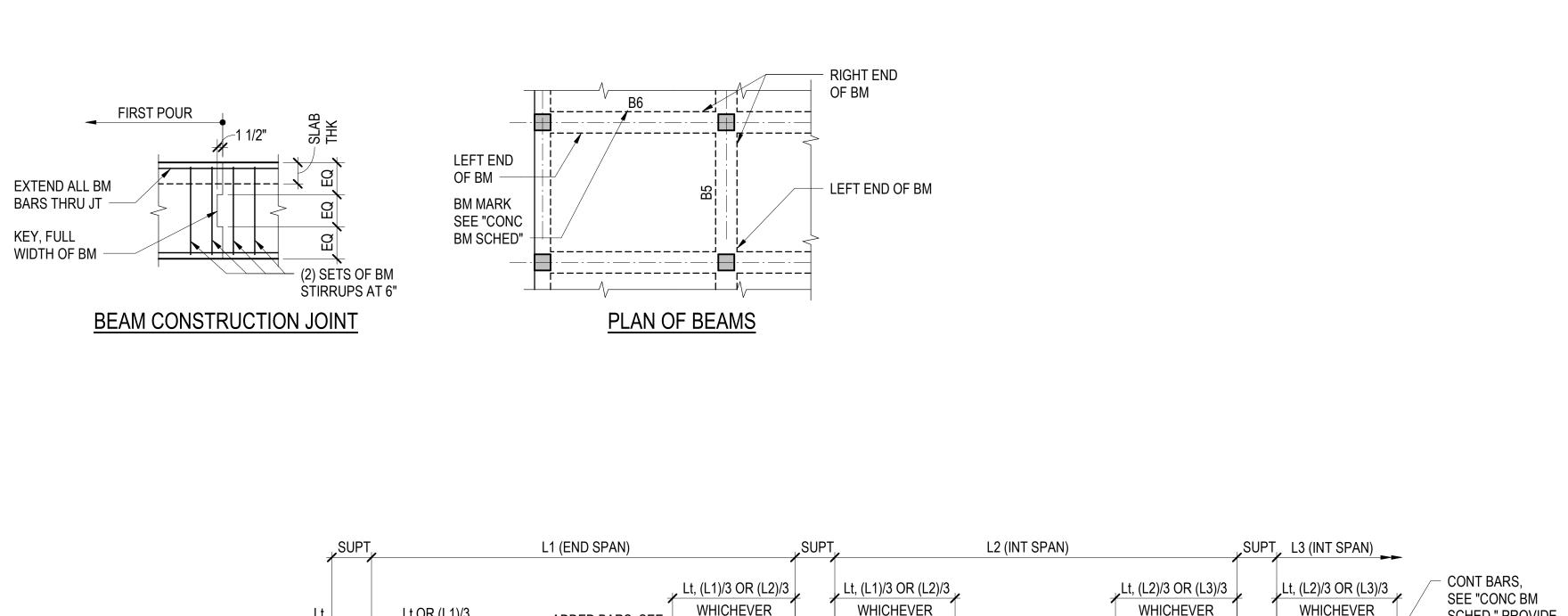
(5) #9

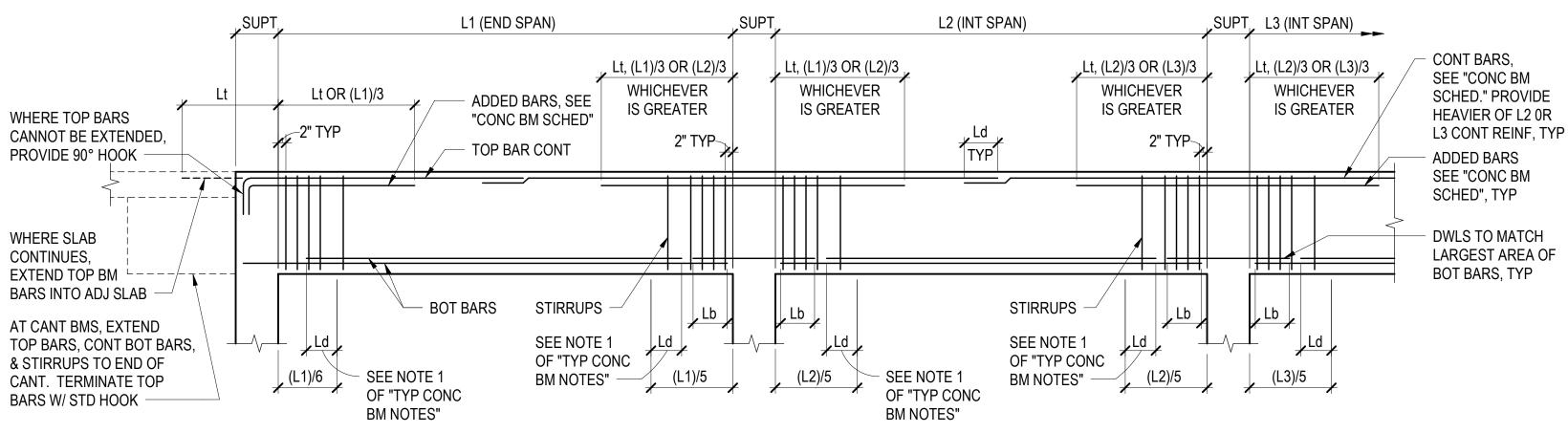
(5) #10

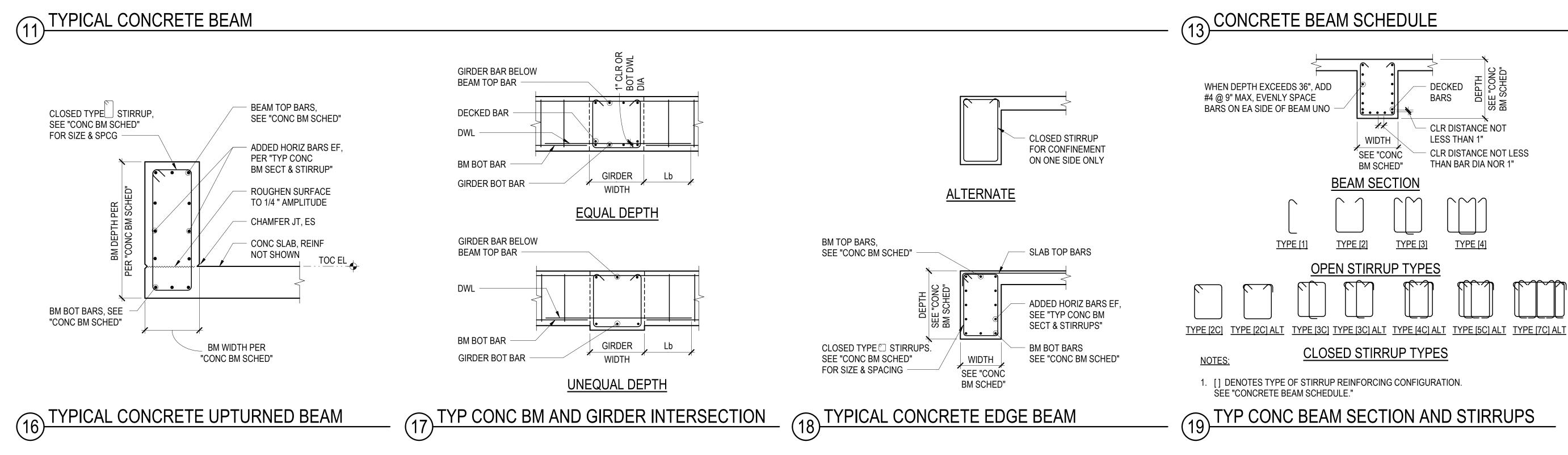
SIZE











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

TYPICAL CONCRETE BEAM NOTES

BEAM REINFORCING ELEVATION

B1	(WIDTHxDEPTH) 12"x18"	CAMBER
B1 B2	24"x24"	
B3	24"x24"	
B5	24"x22" MIN	
B6	24"x26 1/2"	
B7	24"x24"	
B8	24"x24"	
B9	30"x24"	
B10	30"x24"	
B10	30"x22" MIN	
DIZ	JU XZZ IVIIIN	
B13	30"x26 1/2"	
B16	30"x24"	
B17	30"x24"	
B21	30"x22" MIN	
B22	30"x26 1/2"	
B23	30"x26 1/2"	
D23	JU XZU 1/Z	
B26	30"x30"	
B20	30"x30"	
B28	18"x24"	
В20 В29	30"x24"	
B30 B33	30"x24" 24"x32"	
B33 B34	24 x32 24"x24"	
B35	24"x24"	
B37	18"x32"	
B38	24"x32"	
B39	24"x32"	
B40	24"x32"	
B41	34"x30"	
B42	32"x32"	
B44	24"x48"	
B45	24"x48"	
B46	24"x32"	
B47	24"x32"	
B48	24"x50"	
B49	24"x32"	
B50	12"x39"	
B51	18"x32"	
B52	32"x72"	
B53	18"x36"	
B54	24"x32"	
B56	18"x38"	
B57	24"x33"	
B58	30"x36"	
B59	24"x62"	
B61	24"x39"	
B62	24"x74"	
B63	24"x72"	
B64	32"x72"	
B65	24"x60"	
B66	24"x74"	
B67	24"x26"	
B68	24"x61"	
B69	30 1/2"x48"	
B71		
B72		
0.1	40"x42"	
B73	40"x42" 60"x42"	
B73 B74	40"x42" 60"x42" 38 1/2"x24"	
B74	40"x42" 60"x42" 38 1/2"x24" 24"x67"	
B74 B75	40"x42" 60"x42" 38 1/2"x24" 24"x67" 36"x30"	
B74	40"x42" 60"x42" 38 1/2"x24" 24"x67"	
B74 B75	40"x42" 60"x42" 38 1/2"x24" 24"x67" 36"x30"	
B74 B75 B76	40"x42" 60"x42" 38 1/2"x24" 24"x67" 36"x30" 24"x25" MIN	
B74 B75 B76 B77	40"x42" 60"x42" 38 1/2"x24" 24"x67" 36"x30" 24"x25" MIN 72"x18"	
B74 B75 B76 B77 B78	40"x42" 60"x42" 38 1/2"x24" 24"x67" 36"x30" 24"x25" MIN 72"x18" 32"x20"	
B74 B75 B76 B77 B78	40"x42" 60"x42" 38 1/2"x24" 24"x67" 36"x30" 24"x25" MIN 72"x18" 32"x20"	

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

1. SEE "TYPICAL CONCRETE BEAM" DETAIL.

NOTES:

(4) $\pi7$ (6) $\pi9$ $\pi5 \oplus F$ SC ADD (2) μ SDE BAR EA SIDE - SEE SECTION I SEE 1164.03 (3) $\pi7$ (4) $\pi7$ (5) $\pi9$ (5) $\pi7$ (5) $\pi9$ (5) $\pi1$ (4) $\pi7$ (6) $\pi9$ (6) $\pi7$ (6) $\pi9$ (7) $\pi1$ (7) $\pi1$ (4) $\pi7$ (6) $\pi9$ (6) $\pi7$ (7) $\pi1$ (7) $\pi1$ (7) $\pi1$ (4) $\pi7$ (6) $\pi8$ (7) $\pi7$ (7) $\pi1$ (7) $\pi2$ (7) $\pi2$ (7) $\pi2$ (4) $\pi7$ (6) $\pi8$ (7) $\pi7$ (7) $\pi2$ (7) $\pi2$ (7) $\pi2$ (7) $\pi2$ (4) $\pi8$ (4) $\pi8$ (4) $\pi8$ (6) $\pi7$ (7) $\pi2$ (7) $\pi2$ (7) $\pi2$ (4) $\pi7$ (4) $\pi8$	
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(4) #8 (4) #8 #4 @ 10 [4C] (14) #11 (3) #10 (4) #10 (3) #10 #5 @ 6" [4C] (4) #8 (2) #8 (3) #8 (2) #8 #5 @ 12" [2C] (3) #7 (3) #7 (3) #7 #4 @ 14" [3C] (3) #9 (3) #9 #4 @ 14" [3C] (3) #9 (3) #9 #4 @ 14" [3C] (4) #9 (3) #7 (4) #9 (3) #7 (4) #9 (3) #7 (4) #9 (3) #7 (4) #9 (3) #7 (13) #5 @ 6" [4C] #5 @ 6" [4C] (4) #9 (3) #7 (13) #5 @ 6" [4C] #14 @ 14" [3C] (4) #9 (4) #9 #4 @ 14" [3C] [13] #5 @ 6" [4C] (6) #10 (6) #8 #4 @ 14" [3C] [14] [4C] (5) #11 (5) #11 #4 @ 14" [3C] [15] [16] [16] [16] [16] [16] [16] [16] [16	
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(5) #11 (5) #11 #4 @ 14" [3C] (8) #11 (8) #11 #5 @ 8" [4C] (6) #11 (6) #9 #5 @ 14" [4C] (5) #11 (5) #11 #4 @ 14" [3C] (5) #11 (5) #11 #4 @ 14" [3C] (3) #8 (3) #8 #4 @ 14" [3C] (4) #9 (4) #9 #4 @ 14" [4C] (4) #11 (4) #11 #4 @ 14" [4C] (11) #18 (6) #11 (6) #11 #6 @ 4" [4C] (11) #11 (6) #11 (6) #11 #5 @ 6" [7C] (3) #7 (3) #8 #5 @ 6" [2C] SEE DETAIL 18/S5.05 (5) #9 (5) #9 (5) #9 #5 @ 9" [3C]	
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(3) #8 (3) #8 #4 @ 14" [3C] (4) #9 (4) #9 #4 @ 14" [4C] (4) #11 (4) #11 #4 @ 14" [4C] (11) #18 (6) #11 (6) #11 (11) #18 (6) #11 (6) #11 (14) #11 (8) #9 #5 @ 6" [7C] (3) #7 (3) #8 #5 @ 6" [2C] SEE DETAIL 18/S5.05 (5) #9 (5) #9 #5 @ 9" [3C] #5 @ 9" [3C]	
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(14) #11 (8) #9 #5 @ 6" [7C] (3) #7 (3) #8 #5 @ 6" [2C] SEE DETAIL 18/S5.05 (5) #9 (5) #9 #5 @ 9" [3C] #5 @ 9" [3C]	
(3) #7 (3) #8 #5 @ 6" [2C] SEE DETAIL 18/S5.05 (5) #9 (5) #9 #5 @ 9" [3C] #5 @ 9" [3C]	
(5) #9 (5) #9 #5 @ 9" [3C]	
(4) #9(4) #8#5 @ 9" [3C]25" MINIMUM DEPTH; BOTTOM OF BEAM FLAT TOP OF BEAM STEPS WITH SLAB	AT AT ELEVATION 8373'-9"
(6) #6 (2) #6 (2) #6 #5 @ 18" [2] REINF SIM TO 18/S4.05. SEE PLAN FOR ADDEI	DED TOP BAR AT END
(4) #9 (5) #9 #5 @ 6" [3C]	
(3) #9 (3) #9 #5 @ 6" [2C] CLOSED STIRRUPS ARE TO BE CONTINUOUS, [2C ALT] ALLOWED. SEE DETAIL 08/S5.02	JS, NO CAP/TIE PER
(4) #9 (4) #9 (4) #9 #5 @ 12" [3C]	

CONCRETE BEAM SCHEDULE

LEFT

STIRRUPS

RIGHT

SEE 1/S4.03

REMARKS

SEE SECTION PER PLAN FOR DEPTH; SEE 1/S4.03

SEE SECTION PER PLAN FOR DEPTH; SEE 1/S4.03

ADD (2) #4 SIDE BAR EA SIDE; SEE 1/S4.03

ADD (3) #4 SIDE BAR EA SIDE;SEE 1/S4.03

ADD (3) #5 SIDE BAR EA SIDE; SEE 1/S4.03

ADD (3) #4 SIDE BAR EA SIDE; SEE 1/S4.03

CONTINUOUS

#4 @ 6" [2C]

#5 @ 9" [3C]

#6 @ 5" [3C]

#5 @ 9" [3C]

#5 @ 9" [3C]

#5 @ 9" [3C]

#5 @ 9" [3C]

#5 @ 6" [3C]

#4 @ 9" [4C]

#6 @ 6" [3C]

#6 @ 6" [3C]

TOP BARS

(2) #7

(7) #8

(3) #8

(9) #9

(4) #9

(10) #9

(5) #10

(7) #9

(7) #9

(9) #10

(10) #10

(6) #8

(9) #8

(10) #10

(10) #10

CONTINUOUS RIGHT

(2) #7

(4) #8

(5) #9

(5) #10

BOTTOM

BARS

(2) #7

(3) #8

(4) #8

(3) #8

(3) #8

(3) #8

(8) #10

(4) #7

(4) #7

(4) #7

(5) #7

(4) #7

(4) #7

(4) #7

(6) #8

LEFT

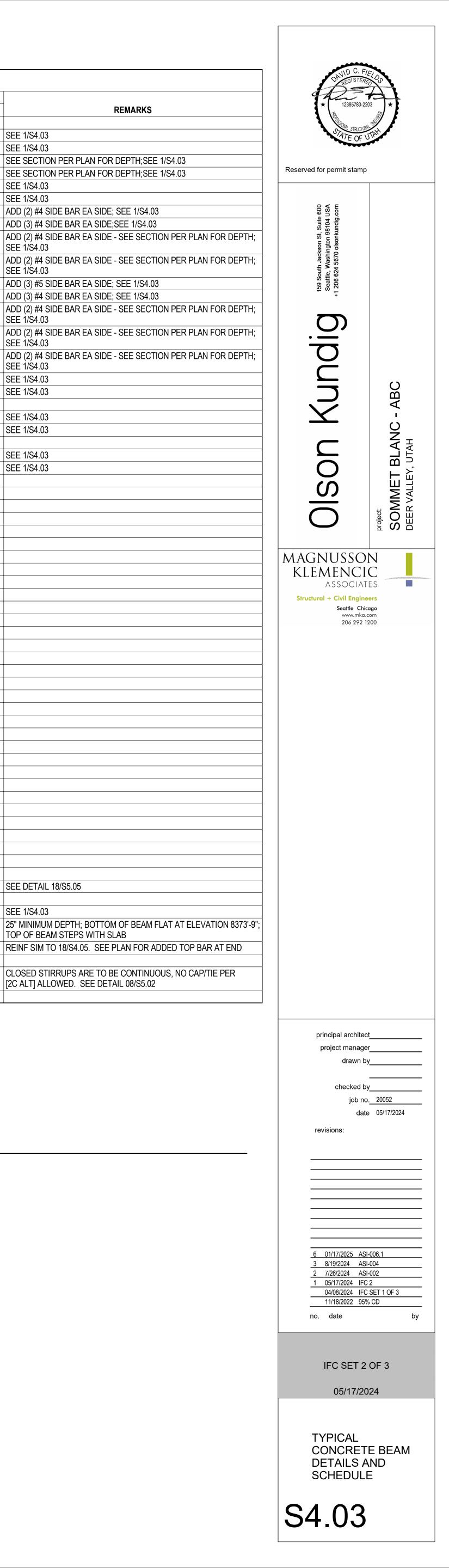
(2) #7

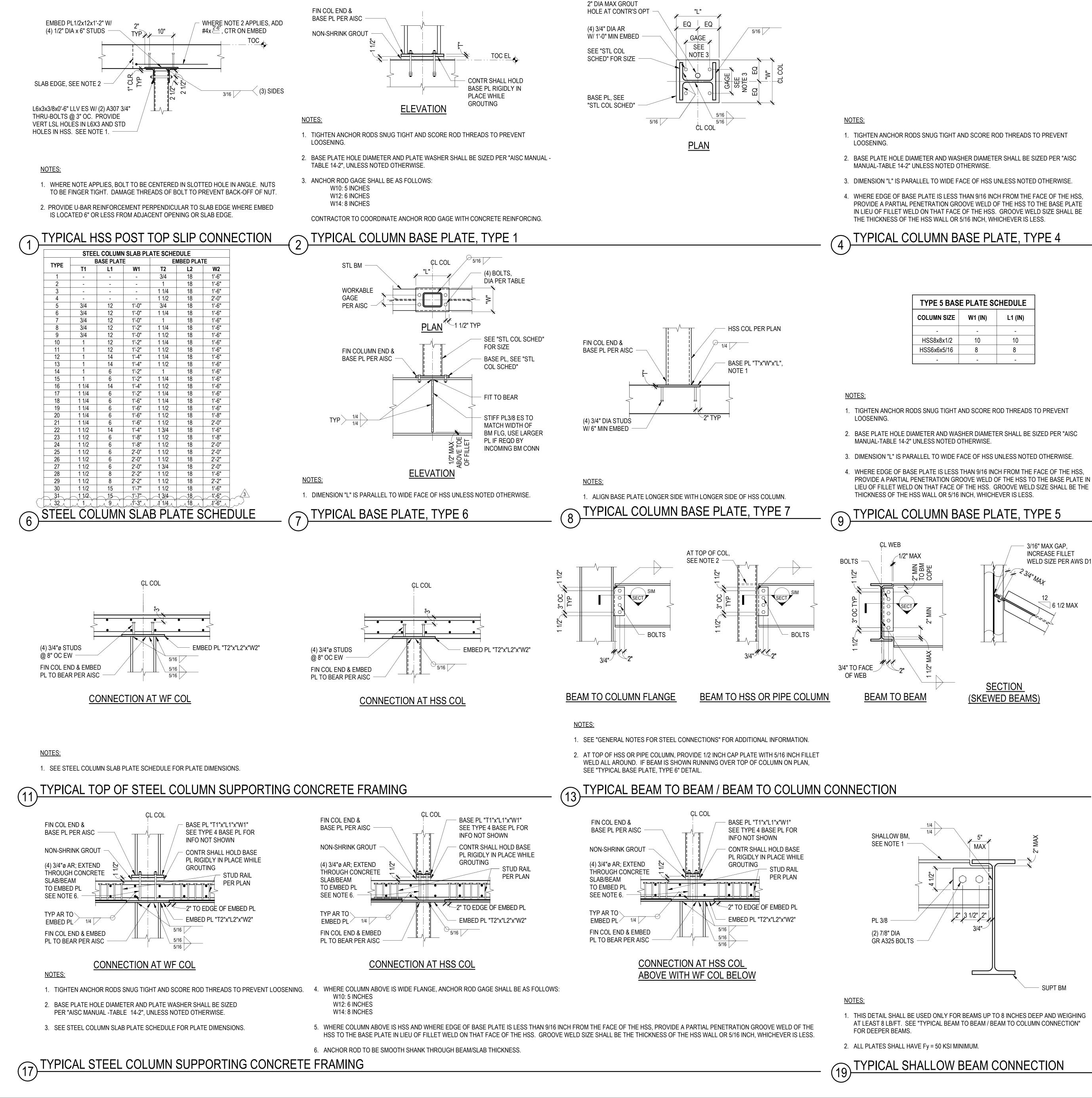
(4) #8

(5) #9

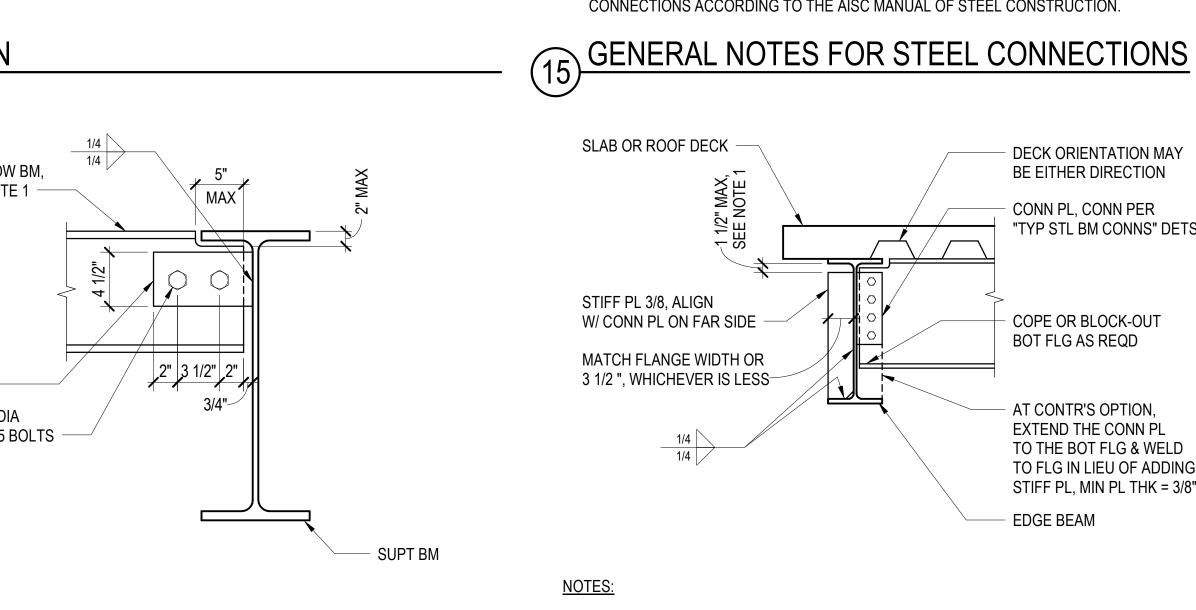
(5) #10

SIZE





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"



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

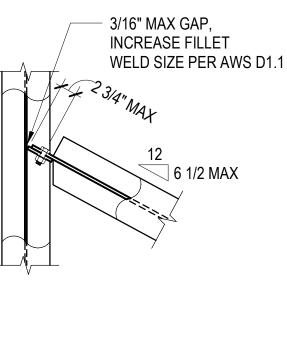


	TABLE A	
WIDE-FLANGE BEAM DEPTH	NUMBER OF BOLTS REQUIRED	MAXIMUM REACTION (KIPS)
W10	2	27
W12, W14	3	40
W16, W18	4	65
W21	5	91
W24	6	124
W27	7	150
W30 - W44	8	175

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.

CONTRACTOR SHALL HOLD BASE PLATE RIGIDLY IN PLACE WHILE GROUTING ELEVATION

EQEQ

"L1"

<u>PLAN</u>

TYP

(4) 3/4" DIA AR

FOR SIZE

FIN COL END &

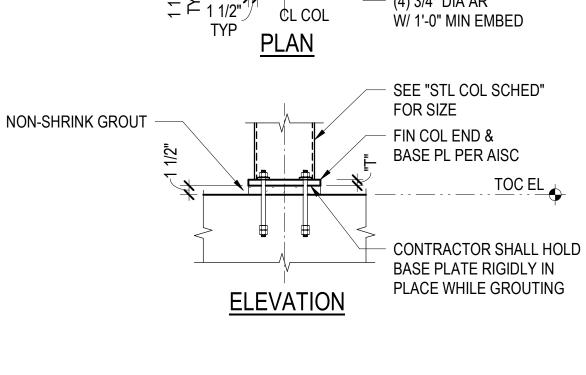
BASE PL PER AISC

W/ 1'-0" MIN EMBED

SEE "STL COL SCHED"

PLATE HOLE DIAMETER AND WASHER DIAMETER SHALL BE SIZED PER "AIS AL-TABLE 14-2" UNLESS NOTED OTHERWISE.
ISION "L" IS PARALLEL TO WIDE FACE OF HSS UNLESS NOTED OTHERWISE

"AISC



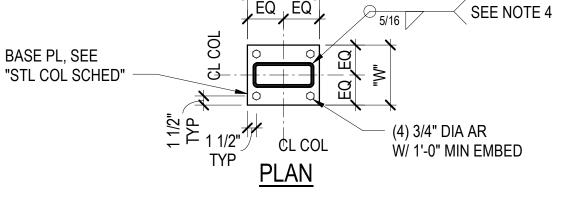
SEE NOTE 4

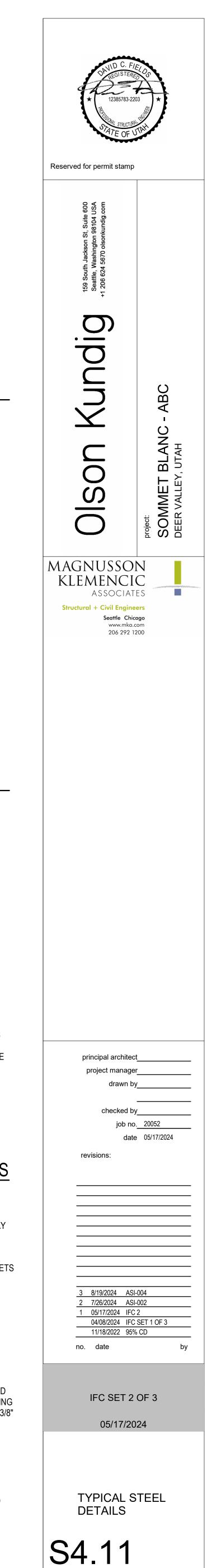
BASE PL, SEE

"STL COL SCHED'

NON-SHRINK

GROUT





DECK ORIENTATION MAY BE EITHER DIRECTION CONN PL, CONN PER

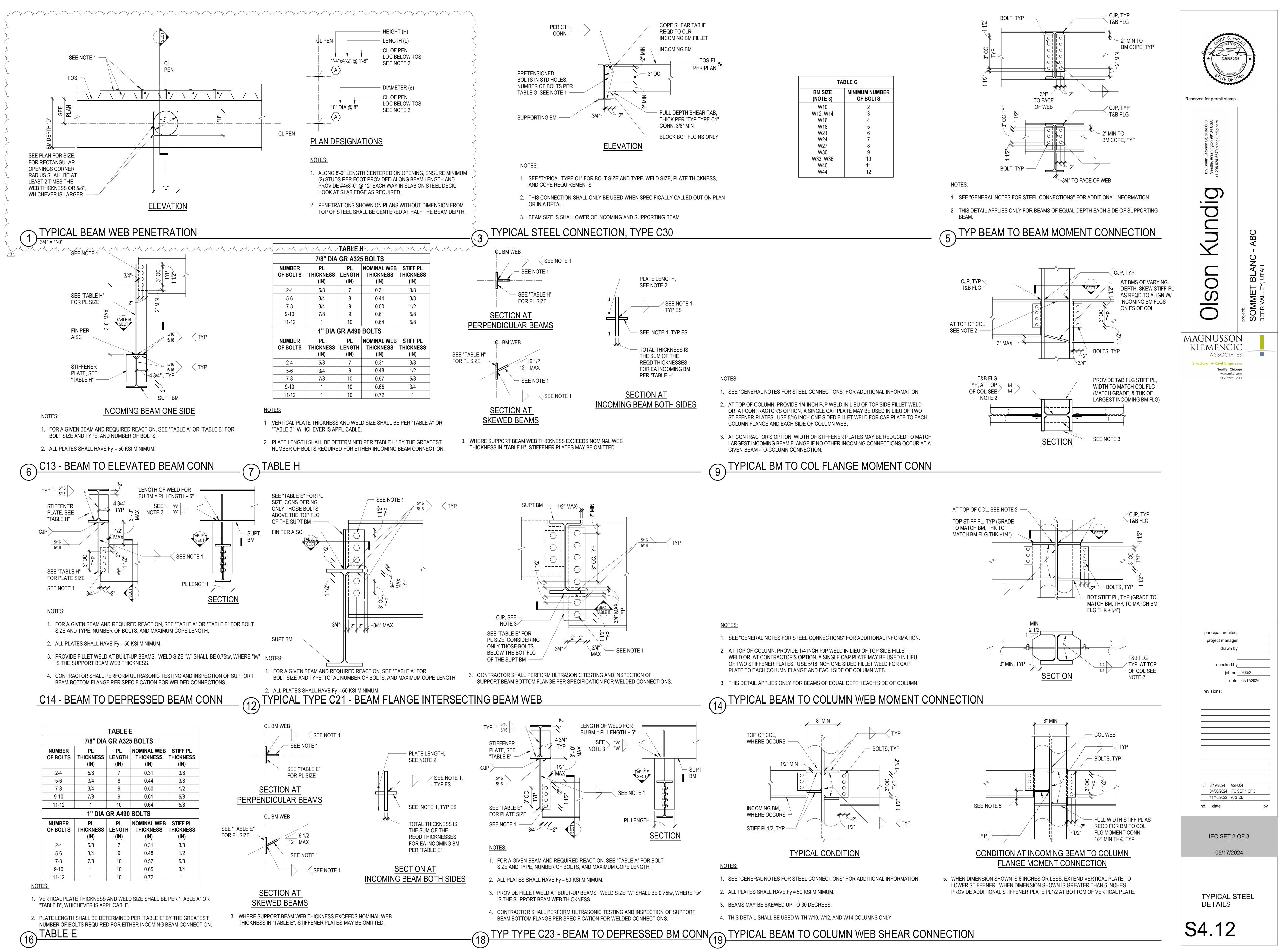
"TYP STL BM CONNS" DETS

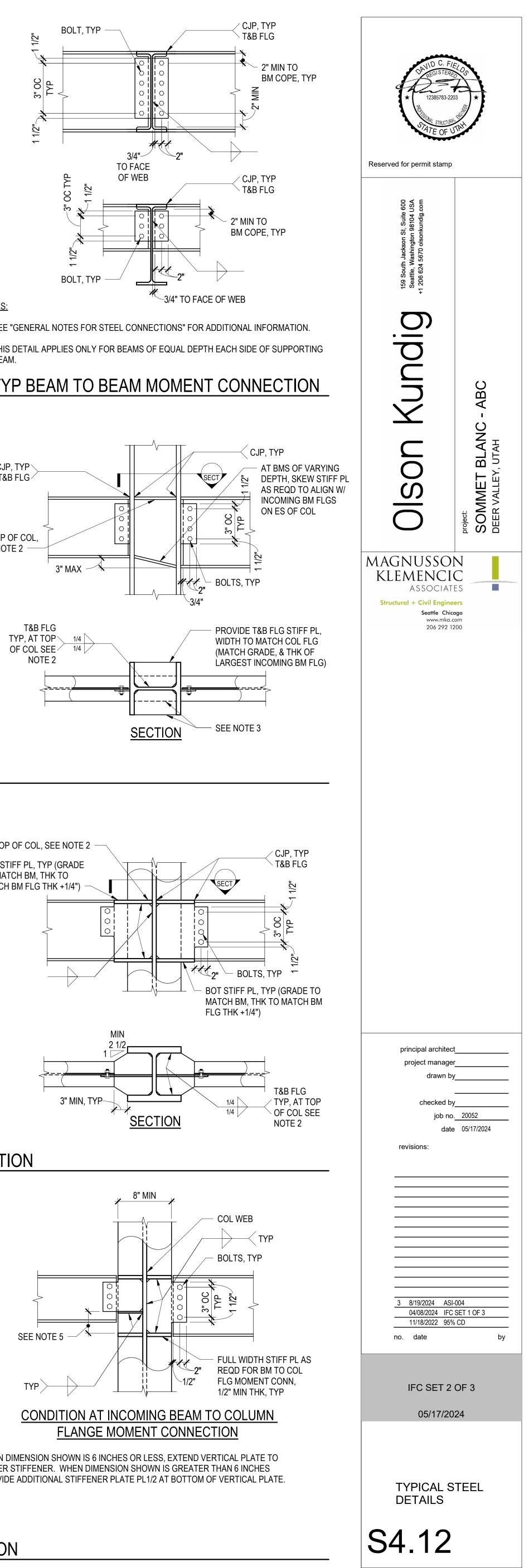
COPE OR BLOCK-OUT

BOT FLG AS REQD

EDGE BEAM

AT CONTR'S OPTION, EXTEND THE CONN PL TO THE BOT FLG & WELD TO FLG IN LIEU OF ADDING STIFF PL, MIN PL THK = 3/8"





															TOWE	R A - ROO	F STEEL CO	OLUMN SCH	IEDULE															
TOWER A - ROOF											I																							TOWER A - ROOF
8419' - 6" TOWER B - LEVEL 5 8412' - 0" TOWER A - LEVEL 6					HS\$6x6x3/8	HS\$6x6x3/8	W10x45	W10x45	HS\$6x6x3/8	HS\$6x6x1/2	HSS6x6x5/8	HSS6x6x1/2			HSS6x6x5/16	HSS6x6x5/16	W10x45	HSS6x6x5/16	W10x45	HS\$6x6x1/2	W10x45	HS\$6x6x1/2	HSS6x6x1/2	HS\$6x6x1/2	HSS6x6x1/2	HSS6x6x5/8		W10x45	W10x45	HSS6x6x3/8	W10x45	W10x45	W10x45	8419' - 6" TOWER B - LEVEL 5 8412' - 0" TOWER A - LEVEL 6
8407' - 6" TOWER A - LEVEL 5	HSS6x6x5/16	HSS6x6x5/16	W10x49	W10x49			T	–			Ŧ	Ŧ	W10x49	W10x49											Ţ	Ŧ	W10x49			–		Ŧ		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" 4/S4.11	BASE PL 3/4x12x1'-0 2/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 - ROOF STEEL COLUMN SCHEDULE

																TOWER AB CC	NNECTOR -	- STEEL COL	LUMN SCHEI	DULE															
TOWER A LEVEL 2	-																																		TOWER A
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	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 LEVEL 1
8345' - 0"	L BASE PL 2 1/2x18x1'-6" 18/S6.00	BASE PL 1x14x1'-2" 2/S4.11	L BASE PL 1 1/2x18x1'-6 19/S6.00	L BASE PL 5" 1 1/2x16x1'-4" 17/S6.00	L BASE PL 1 1/2x18x1'-6' 19/S6.00	L BASE PL " 1 1/2x16x1'-4" 17/S6.00	L BASE PL 1 1/2x18x1'-6 19/S6.00	L BASE PL " 1 1/2x16x1'-4" 17/S6.00	L BASE PL ' 1 1/2x16x1'-4 17/S6.00	L BASE PL I 1/2x16x1'-4 17/S6.00	L BASE PL 1 1/2x16x1'-4 17/S6.00	BASE PL 3x22x2'-0" 20/S6.00	L BASE PL 1 1/2x16x1'-4 17/S6.00	L BASE PL 3x22x2'-0" 20/S6.00	L BASE PI 3x22x2'-0 20/S6.00	L BASE PL)" 2 1/2x18x1'-6') 18/S6.00	L BASE PL 1 1/2x16x1'-4' 17/S6.00	L BASE PL " 1 1/2x16x1'-4" 17/S6.00	L BASE PL 1 1/2x16x1'-4' 17/S6.00	L BASE PL 1 1/2x16x1'-4' 17/S6.00	L BASE PL 1 1/2x16x1'-4" 17/S6.00	L BASE PL 2 1/2x18x1'- 18/S6.00	L BASE PL .6" 1 1/2x16x1'-4" 17/S6.00	L BASE PL 3x22x2'-0" 20/S6.00	L BASE PL 3x22x2'-0" 20/S6.00	BASE PL 3x22x2'-0" 20/S6.00	L BASE PL 1 1/2x16x1'-4' 17/S6.00	BASE PL 1x14x1'-2" 2/S4.11	L BASE PL 3x22x2'-0" 20/S6.00	▲ BASE PL 2 1/2x18x1'- 18/S6.00	6" 2 1/2x18x1'-6"	L BASE PL 2 1/2x18x1'-6' 18/S6.00	L BASE PL 2 1/2x18x1'-6' 18/S6.00	L 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	

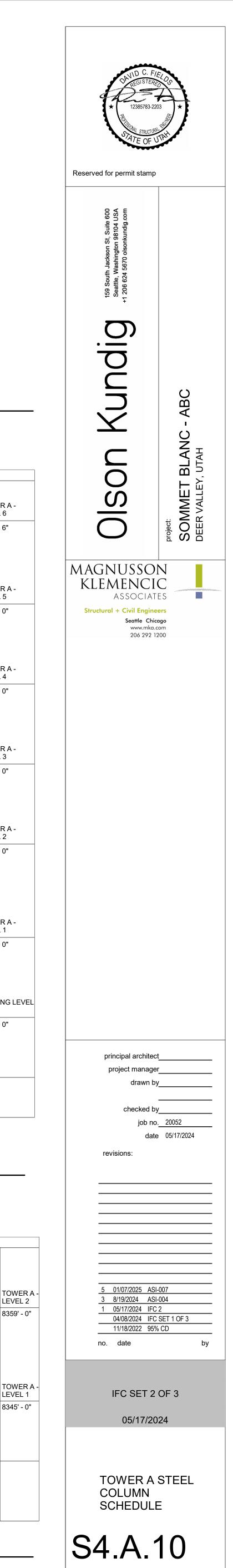
TOWER AB CONNECTOR - STEEL COLUMN SCHEDULE

<u>NO</u>	<u>TES:</u>
1.	BASE PLATES SHALL HAVE Fy = 50 KSI, UNLESS NOTED OTHERWISE.
	V

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

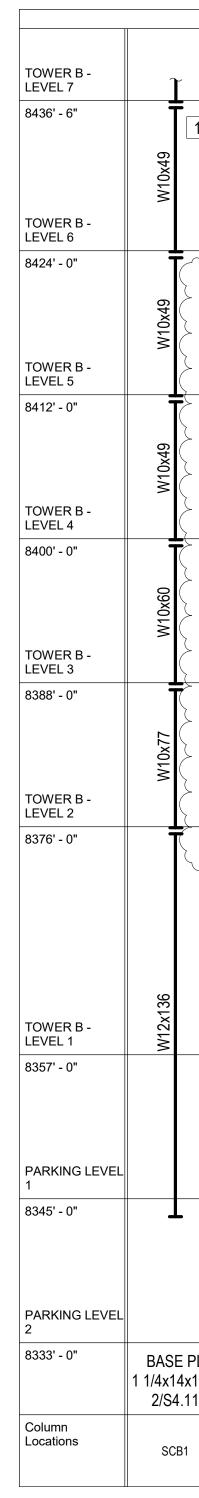
	1								T	OWER	A - S		IN SCH	HEDUL	E								
TOWER A - LEVEL 6				•														•		•		_	TOWER A - LEVEL 6 8407' - 6"
8407' - 6" TOWER A - LEVEL 5	HSS8x6x1/2	3	HSS8x6x1/2	3			HSS6x6x1/2						W10x49	1			W10x49	1	W10x49		W10x49	1	TOWER A -
8395' - 0"		15		15		2					1			5			:	L T	5	L 5		5	8395' - 0"
TOWER A - LEVEL 4	HSS8x6x1/2		HSS8x6x1/2		W10x77			W10x49		W10x49			W10x49		W10x49		W10x49		W10x49		W10x49		TOWER A - LEVEL 4
8383' - 0" TOWER A -	HSS8x6x5/8	15	HSS8x6x5/8	15	W10x88	6		W10x60	5	W10x49	5		W10x49	7	W10x49		W10x49		W10x49	7	W10x49		8383' - 0" TOWER A -
LEVEL 3 8371' - 0"		=	=			-		=	L F		-			-	=			 T	╎	<u> </u>			LEVEL 3 8371' - 0"
TOWER A - LEVEL 2	HSS9x9x1/2	17	HSS12x6x5/8	17	W12x120	6		W10x60	7	W10x49	5		W10x60	7	W10x49				W10x60	7	W10x49		TOWER A - LEVEL 2
8359' - 0"	Letter and the second s			19		12			7		5			7			W10x100			T 7			8359' - 0"
TOWER A - LEVEL 1			HSS9x9x1/2		W12x152			W10x77		W10x60		W10x60	W10x77		W10x77				W10x77		W10x77	W10x60	TOWER A - LEVEL 1
8345' - 0"						_		-	_		-	~	-	-	-			L	•	L			8345' - 0"
PARKING LEVEL																							PARKING LI 2
8333' - 0"	BASI 1 1/4x1 9/S4	5x1'-3"	1 1/4x1	E PL 5x1'-3" 4.11	BAS 1 1/4x1 9/S4	5x1'-3"	BASE PL 3/4x6x1'-0" 4/S4.11	3/4x12	E PL 2x1'-0" 4.11	BASI 3/4x12 2/S4	2x1'-0"	BASE PL 3/4x12x1'-0" 2/S4.11	BAS 3/4x12 2/S4	2x1'-0"		E PL 2x1'-0" 4.11	3/4x1	SE PL 2x1'-2" 64.11	3/4x1	SE PL 2x1'-0" 64.11	BASE P 3/4x12x1 2/S4.11	-0" 3/4x12x1'-0"	8333' - 0"
Column Locations	SC	A1	sc	A2	SC	A3	SCA4	SC	CA5	SC.	A6	SCA13 -	SC	A7	sc	CA8	S	CA9	SC	CA10	SCA11	SCA12	



														- ROOF STE														
TOWER B - ROOF			1																									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	21 20 20
8436' - 6"	Ţ	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 P 3/4x12x1'- 2/S4.11	-0" 1x8x1'-0	" 3/4x12x1'-0	BASE PL 3/4x12x1'- 2/S4.11	0" 3/4x12x1'	-0" 3/4x12x1'-0"	BASE PL 3/4x12x1'-(2/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 8436' - 6" 1x10x1'-0" 4/S4.11					
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
					1	FOWER B -	- ROOF ST	EEL COLUM	N SCHEDUI	E																		
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 0" 3/4x12x1'- 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 P 3/4x12x1'- 2/S4.11	BASE P 0" 3/4x12x1' 2/S4.11	BASE PL -0" 1x8x1'-0" 4/S4.11	8436' - 6"													
Column Locations	SCB29	SCB30	SCB31	SCB32	SCB33	SCB34	SCB35	SCB36	SCB37	SCB38	SCB39	SCB40	SCB41	SCB42														

															ROOF ST	EEL COLUN														
TOWER B - ROOF																														OWER 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	448' - 9" OWER B - EVEL 7
8436' - 6"	Ţ	1)	ASE PL x8x1'-0" /S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 3/4x12x1'- 2/S4.11	BASE PL 0" 3/4x12x1'-0 2/S4.11	BASE PL 1x8x1'-0' 4/S4.11	' 1x8x1'-	0" 1x8x1'-(L BASE PL 0" 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 P 3/4x12x1 2/S4.11	-0" 3/4x12x1'-(BASE PI 3/4x12x1'- 2/S4.11)" 3/4x12x1'-0'	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 84 1x10x1'-0" 4/S4.11	436' - 6"					
Column Locations	SCB1	l	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	
	1						TOWER B	- ROOF S	TEEL COLU	MN SCHEDU	LE																			
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 P 1x8x1'-(4/S4.11	-0" 1>	▲ ASE PL x8x1'-0" /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/S4.11	BASE I 0" 3/4x12x1 2/S4.1	PL BASE F '-0" 3/4x12x1 1 2/S4.1	L BASE PL -0" 3/4x12x1'-0 I 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 P 1x8x1'-0 4/S4.11	L 8436' - 6" "														
Column Locations	SCB29	9	SCB30	SCB31	SCB32	SCB33	SCB34	SCB35	SCB36	SCB37	SCB38	SCB39	SCB40	SCB41	SCB42															

TOWER B - ROOF STEEL COLUMN SCHEDULE



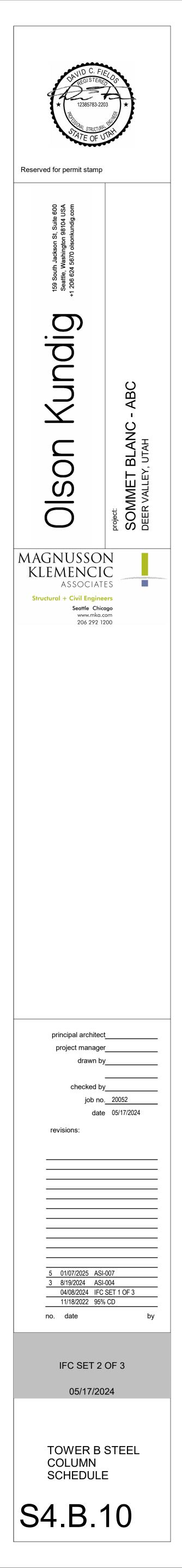
NOTES:

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

	1		1		Т	OWER	B - S1	FEEL (COLUN	IN SCI	HEDUL	E	1		1		1		
1	HSS8x6x1/2	1	HSS8x6x1/2	1	W10x49	1	W10x49	1	W10x49	1	W10x49	1	W10x49	1	W10x49	1	W10x77	2	TOWER B - LEVEL 7 8436' - 6" TOWER B - LEVEL 6
	HSS8x6x1/2	14	HSS8x6x1/2	15	W10x49	5	W10x49		W10x49	5	W10x49		W10x49	5	W10x49	5	W10x112	6	8424' - 0" TOWER B - LEVEL 5
	HSS12x6x1/2	15	HSS9x9x1/2	15	W10x49	7	W10x49		W10x49	7	W10x49		W10x49	5	W10x49	7	W12×120	8	8412' - 0" TOWER B - LEVEL 4
	HSS12x6x1/2	18	HSS9x9x1/2	32	W10x60	7	W10x49		W10x60	7	W10x49		W10x49	7	W10x60	7	W12x152	– [16]	8400' - 0" TOWER B - LEVEL 3
	HSS12x6x5/8	18	HSS9x9x1/2	32	W10x68	6	W10x60		W10x68	7	W10x49		W10x60	7	W10x77	6	W12x152	16	8388' - 0" TOWER B - LEVEL 2
			HSS9x9x5/8	32	W10x112	6	W10x77		W10x112	6	W10x60		W10x88	7	W10x112	6	W12x170	16	8376' - 0"
			-				-				-	_	-	_			L	-	TOWER B - LEVEL 1 8357' - 0"
•																			PARKING LEVE 1 8345' - 0"
E PL 4x1'-3" .11	BAS 1 1/4xt 4/Sz	5 E PL 6x1'-6" 4.11	BAS	E PL 15x1'-3" 4.11	BAS 3/4x12 2/S4	2x1'-0"	3/4x12	E PL 2x1'-0" 4.11	BASI 3/4x12 2/S4	2x1'-2"	BASE 3/4x12 2/S4	x1'-0"	BAS 3/4x12 2/S4	2x1'-0"	BAS 3/4x12 2/S4	2x1'-2"	1 1/2x	SE PL 14x1'-4" 4.11	PARKING LEVE 2 8333' - 0"
31	sc	B2	S	CB3	SC	B4	sc	CB5	SC	B6	SC	B7	SC	B8	SC	:B9	SCE	310	

TOWER B - STEEL COLUMN SCHEDULE



r		
ROOF		
8475' - 0"	W10x45	M10V1E
LEVEL 8		
8463' - 0"	BASE PL 3/4x12x1'-0" 2/S4.11	B/ 3/4) 2
Column Locations	SCC15	S

									TOWER C	- ROOF STE		SCHEDULE											
										l							l						ROOF
W10x45	W10x45	W10x45	HSS6x6x1/2	HSS6x6x5/16	HSS6x6x5/16	HSS6x6x5/16	HSS6x6x3/8	W10x49	W10x49	W10x45	W10x45	W10x45	W10x45	HSS6x6x5/16	HSS10x6x5/8	HSS10x6x5/8	HSS10x8x5/8	HSS10x6x5/8	HSS6x6x5/16	HSS6x6x5/16	HSS10x6x5/8	W10x49	8475' - 0"
BASE PL 3/4x12x1'-0' 2/S4.11	BASE PL 3/4x12x1'-0 2/S4.11	BASE F 3/4x12x1 2/S4.1	l'-0" 1x8x1'-0"	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 1x8x1'-4" 4/S4.11	BASE PL 1x8x1'-4" 4/S4.11	BASE PL 1x10x1'-4" 4/S4.11	BASE PL 1x8x1'-4" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-0" 4/S4.11	BASE PL 1x8x1'-4" 4/S4.11	BASE PL 3/4x12x1'-0" 2/S4.11	8463' - 0"					
SCC16	SCC17	SCC1	8 SCC19	SCC20	SCC21	SCC22	SCC23	SCC24	SCC25	SCC26	SCC27	SCC30	SCC31	SCC32	SCC28	SCC29	SCC33	SCC34	SCC35	SCC36	SCC37	SCC38	

TOWER C - ROOF STEEL COLUMN SCHEDULE

									Т	OWER	C - ST	EEL C	OLUM	IN SCH	HEDUL	E	1		1						I
LEVEL 8								^			\	^				•			-	_					LEVEL 8
8463' - 0" LEVEL 7	W10x77	3	W10x60	- 2	W10x49		W10x49		W10x49	5	W10x49		HSS18x6x5/8	- 4	HSS8x6x5/8	2	HSS8x6x1/2	- 2	HSS12x6x5/8	3	W10x60	- 2	W10x88	- 3	8463' - 0" LEVEL 7
8450' - 6" LEVEL 6	W10x112	9	W10x60	6	W10x49		W10x49		W10x49		W10x49		HSS18x6x5/8	25	HSS12x6x1/2	15	HSS8x6x1/2	14	HSS14x6x5/8	20	W10x60	7	W12x106	6	8450' - 6" LEVEL 6
8438' - 6"	W10x112	11	W10x100	6	W10x49		W10x49		W10x49		W10x49		HSS20x8x5/8	26	HSS18x6x5/8	21	HSS12x6x1/2	15	HSS14x6x5/8	23	W10x100	6	W12x106	12	8438' - 6"
8426' - 6"	W12x136	11	W12x120	10	W10x49		W10x49		W10x49		W10x49		HSS20x8x5/8	29	HSS18x6x5/8	27	HSS12x6x1/2	19	HSS18x6x5/8	24	W12x106	10	W12x136	13	8426' - 6"
LEVEL 3	W12x136	16	W12x120	13	W10x49		W10x49		W10x49		W10x49		W12x152	28	HSS20x8x5/8	26	HSS18x6x5/8	21	HSS18x6x5/8	27	W12x136	13	W12x152	16	8414' - 6"
8402' - 6"	W12x170	16	W12x152	13	W10x49		=		W10x49		W10x60		W12x190	22	W12x136	28	HSS18x6x5/8	25	HSS20x8x5/8	26	W12x152	– 16			8402' - 6"
8390' - 6"		30					W10x100)		W12x210	31	J			L		<u>L</u>					8390' - 6"
LEVEL 1 8376' - 6"	W12x279				W10x100			-	W10×100					L											LEVEL 1 8376' - 6"
PARKING 8364' - 6"	BASE 1 1/2x11 SEE 2/	E PL 5x1'-7"	BASI 1 1/2x1 SEE 2/	4x1'-4"	BASE 3/4x12> SEE 2/5	x1'-2"	BASI 3/4x12 SEE 2/	2x1'-2"	BAS 3/4x12 SEE 2		BASI 3/4x12 SEE 2/	2x1'-2"	BAS 1 1/2x1 SEE 2	5x1'-7"	BASE 1 1/2x1/ SEE 2/	4x1'-4"	BAS 1 1/2x0 SEE 4	6x2'-0"	1 1/2x	E PL 8x2'-2" I/S4.11	BAS 1 1/2x1 SEE 4	4x1'-4"	BASI 1 1/2x1 SEE 4,	4x1'-4"	PARKING 8364' - 6"
Column Locations	SCO	21	SC	C2	SCC	23	SC	C5	SC	CC6	SC	C8	SC	 C9	SCC	210	SCO	C11	SC	C12	SC	C13	SCO	C14	

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 C - STEEL COLUMN SCHEDULE

