

## SYMBOL LEGEND

LINE	MATERIAL	REFERENCE
— BEYOND	ALUMINUM	N NORTH INDICATOR
- - - CENTER GRID	BRICK	A6 S-501 DETAIL VIEW INDICATOR
- - - DEMOLITION	CONCRETE	A1 S-201 ELEVATION VIEW INDICATOR
— EXISTING (HALFTONE)	CONCRETE MASONRY BLOCK	C1 SECTION VIEW INDICATOR
- - - HIDDEN	EARTH	A6/S-501 VIEW INDICATOR
- - - MATCHLINE	GRAVEL	1 GRID INDICATOR
— NEW (CUT)	GROUT	1 EXISTING GRID INDICATOR
— NEW (PROJECTION)	WOOD STRUCTURAL PANEL	
- - - OVERHEAD	STEEL	

## STEEL SHAPES LEGEND

SECTION	TOP (T)	FRONT (F)	BACK (B)	BOTTOM (BOT)	
T	—	—	—	—	BG, DLH, C, K, LH, VG
T	—	—	—	—	C, MC
T	—	—	—	—	L
T	—	—	—	—	(2) L
T	—	—	—	—	HP, M, W
T	—	—	—	—	HSS
T	—	—	—	—	HSS (ROUND), PIPE
T	—	—	—	—	MT, WT

## COLD-FORMED SHAPES LEGEND

SECTION	TOP (T)	ELEVATION (E)	
T	—	—	C JOIST
T	—	—	C STUD
T	—	—	FURRING CHANNEL
T	—	—	FURRING HAT CHANNEL
T	—	—	LIGHT GAUGE ANGLE
T	—	—	RUNNER CHANNEL

## CONCRETE MASONRY PLAN LEGEND

MW01	MASONRY WALL MARK
MP01	MASONRY PIER MARK
IS	MASONRY LINTEL MARK
2#E2#2#4	WALL TO BE GROUTED SOLID, IF "G" IS OMITTED, GROUT WALL CORES AT BAR LOCATIONS ONLY.
2#E2#4	BAR SPACING (INCHES)
EF = 1/2	LOCATION OF BAR(S) WITHIN BLOCK CORE
EF = 1/2	EF = 1/2 TOTAL NUMBER OF BARS EACH FACE
C =	C = CENTER IN WALL
IF =	IF = INSIDE FACE
OF =	OF = OUTSIDE FACE
BAR SIZE	BAR SIZE
NUMBER OF BARS	NUMBER OF BARS
WALL REINFORCEMENT EXTENT	WALL REINFORCEMENT EXTENT
VERTICAL BARS TO PASS THROUGH INTERMEDIATE BOND BEAMS	VERTICAL BARS TO PASS THROUGH INTERMEDIATE BOND BEAMS

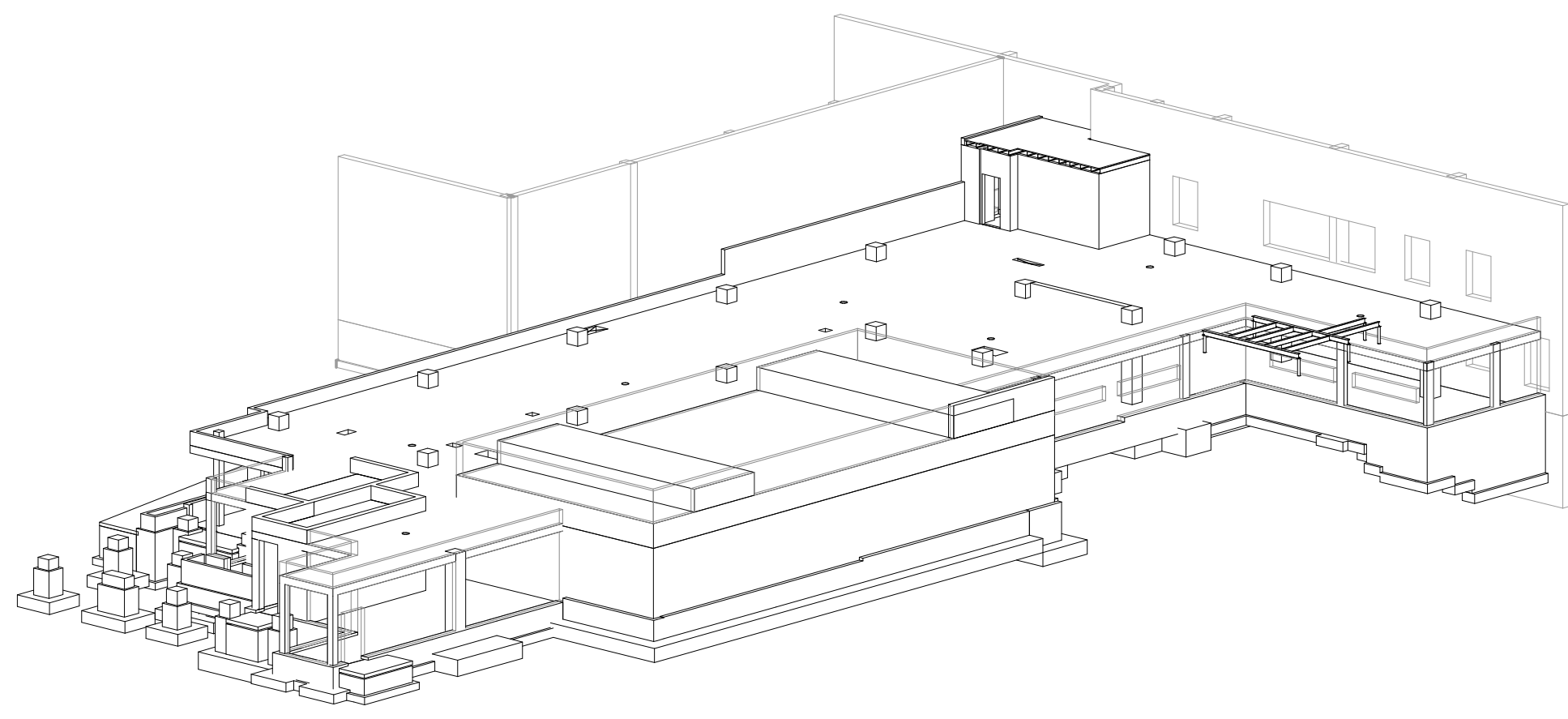
## STEEL LEGEND

—	STEEL ROOF DECK (LONGITUDINAL)
—	STEEL ROOF DECK (TRANSVERSE)
—	BOLT
—	SHEAR STUD

## FOUNDATION PLAN LEGEND

SPREAD FOOTING	CJ	GRADE BEAM MARK
WALL STARTS HERE AND/OR CONTINUES	F01 TOP 100'-0" C01, P01	CONCRETE WALL
GRADE BEAM	CJ	FOOTING MARK
TOP OF FOUNDATION ELEVATION	TOP 100'-0" C01, P01	TOP OF FOUNDATION ELEVATION
WALL FOOTING	TOP 98'-0" C01, P01	CONCRETE COLUMN OR PIER MARK
FOOTING STEP	TOP 110'-0" C01, P01	WALL FOOTING MARK
TOP OF WALL ELEVATION	TOP 98'-0" C01, P01	SLAB ON GRADE CONTROL OR CONSTRUCTION JOINT
CONCRETE COLUMN OR PIER		
WALL ENDS HERE		

## ISOMETRIC VIEW



## CONCRETE LEGEND

—	CONCRETE SLAB ON GRADE
—	CONCRETE SLAB ON STEEL DECK (LONGITUDINAL)
—	CONCRETE SLAB ON STEEL DECK (TRANSVERSE)
—	WELDED WIRE FABRIC REINFORCEMENT
—	SHEAR STUD/RAIL REINFORCEMENT
—	ANCHOR ROD
—	ADHESIVE ANCHOR
—	EXPANSION ANCHOR
—	BENT BAR 2'-0" H x 3'-0" V
—	BAR DRILLED AND EPOXIED INTO CONCRETE

## CONCRETE MASONRY LEGEND

—	BOND BEAM
—	CONCRETE MASONRY UNIT (SECTION)
—	CONCRETE MASONRY UNIT (TOP)
—	BRICK VENEER

## CONCRETE TWO-WAY FLAT SLAB FRAMING PLAN LEGEND

—	COLUMN ABOVE
—	REINFORCEMENT, SHOWN AND SCHEDULED ON PLAN
—	SHEAR WALL
—	FLOOR TYPE MARK
—	COLUMN STRIP OR MIDDLE STRIP BOUNDARY
—	DROP PANEL
—	SHEARHEAD MARK
—	BEAM
—	BEAM MARK
—	OPENING
—	COLUMN BELOW
—	EDGE OF SLAB

## STEEL FRAMING PLAN LEGEND

—	CAMBER AT END OF CANTILEVER
—	CANTILEVER SAME SECTION AS BACK SPAN UNLESS NOTED OTHERWISE
—	MOMENT CONNECTION
—	FACTORED END MOMENT REACTION (FOOT-KIPS)
—	BEAM SPLICE
—	COLUMN ENDS HERE (BEAM FRAMES OVER COLUMN)
—	COLUMN STARTS HERE
—	FLOOR TYPE MARK
—	BEAM WEB PENETRATION MARK
—	EDGE OF SLAB OR EDGE OF DECK
—	SHEAR CONNECTION
—	COLUMN CONTINUES
—	DIAGONAL BRACING ABOVE OR BELOW
—	FACTORED END SHEAR REACTION (KIPS)
—	CAMBER AT MIDSPAN
—	TOTAL NUMBER OF SHEAR STUDS
—	TOP OF STEEL ELEVATION, NOTED ON EACH END INDICATES A SLOPED BEAM
—	SECTION DESIGNATION
—	FACTORED AXIAL TRANSFER FORCE (KIPS). DESIGN BEAM END CONNECTION FOR TRANSFER FORCE IN ADDITION TO SHEAR REACTION
—	OPENING
—	BRACED BOTTOM FLANGE LOCATION
—	EMBED PLATE
—	CONCRETE ENCASED COLUMN

## COLD-FORMED FRAMING PLAN LEGEND

—	COLUMN
—	JOIST OR PRE-ENGINEERED TRUSS
—	LVL HEADER OR BEAM
—	BEARING WALL
—	HOLD DOWN
—	NOMINAL DEPTH
—	QUANTITY OF MEMBERS
—	HEADER
—	SHEAR WALL

## SHEET INDEX

S001	GENERAL INFORMATION
S002	GENERAL NOTES
S003	GENERAL FOUNDATION DETAILS
S004	GENERAL TWO-WAY FLAT SLAB DETAILS
S005	GENERAL MASONRY DETAILS
S010	LOAD DIAGRAMS
S011	SLAB CAMBER PLAN
S100	FOUNDATION/GROUND FLOOR PLAN
S101	ROOF/FUTURE FIRST FLOOR PLAN
S200	ENLARGED PLAN
S001	FOUNDATION DETAILS
S002	FOUNDATION DETAILS
S003	FOUNDATION, CONCRETE, MASONRY AND STEEL DETAILS
S004	FOUNDATION AND CONCRETE COLUMN SCHEDULES
S005	MASONRY SCHEDULES
S006	CONCRETE SHEAR WALL SCHEDULE

## VIEW LOCATION LEGEND

D1	D2	D3	D4	D5	D6
C1	C2	C3	C4	C5	C6
B1	B2	B3	B4	B5	B6
A1	A2	A3	A4	A5	A6

## ABBREVIATIONS

1WAY	ONE-WAY	LD BRG	LOAD-BEARING
AB	ANCHOR BOLT	LH	LONG DIMENSION HORIZONTAL
ADDD	ADDITIONAL	LDV	LONG DIMENSION VERTICAL
ADDM	ADDITIONAL	LL	LIVE LOAD
AHU	AIR HANDLING UNIT	LLBB	LONG LEG BACK TO BACK
ALT	ALTERNATE	LLH	LONG LEG HORIZONTAL
APPROX	APPROXIMATE	LVL	LONG LEG VERTICAL
AR	ARCHITECT	LVL	LAMINATED VENEER LUMBER
ARCH	ARCHITECT	LVR	LOUVER
B PL	BASE PLATE	M	MOMENT
B/B	BACK TO BACK	MAX	MAXIMUM
BC	BOTTOM CHORD	M/R	MEMBER
BF	BOTH FACES	MC	MOMENT CONNECTION
BF	BOTTOM FACE	MD	METAL DECK
BM	BEAM	MECH	MECHANICAL
BO	BOTTOM OF ... (REFER TO TOP OF ...)	MEZZ	MEZZANINE
BOEF	BOTTOM OF EXISTING FOOTING	MFR	MANUFACTURER
BOEG	BOTTOM OF EXISTING GRADE BEAM	MFR REC	MANUFACTURER'S RECOMMENDATION
BOGB	BOTTOM OF GRADE BEAM	MID	MIDDLE
BOT	BOTTOM	MIN	MINIMUM
BRDG	BRIDGING	MISC	MISCELLANEOUS
BRG PL	BEARING PLATE	ML	MONOLITHIC
BS	BOTH SIDES	MO	MASONRY OPENING
BSMT	BASEMENT	MTL	METAL
BW	BOTH WAYS	MULT	MULTIPLE
C	CHANNEL	N	NORTH
C TO C	CENTER TO CENTER	NF	NEAR FACE
CANTIL	CANTILEVER	NG	NOT IN CONTRACT
CP	CAST-IN-PLACE	NLA	NON-LOAD-BEARING
CJ	CONSTRUCTION JOINT	NO	NUMBER
CJ	CONTROL JOINT	NOM	NOMINAL
CL	CENTER LINE	NS	NEAR SIDE
CMU	CONCRETE MASONRY UNIT	NTS	NOT TO SCALE
COL	COLUMN	OC	ON CENTER
CONC	CONCRETE	OD	OUTSIDE DIAMETER
CONN	CONNECT	OF	OUTSIDE FACE
CONSTR	CONSTRUCTION	OP	OPENING
CONT	CONTINUE/CONTINUOUS	OPH	OPPOSITE HAND
CONTR	CONTRACTOR	OPP	OPPOSITE
CPRS	COMPRESSIBLE	OPT	OPTIONAL
CTRL	CONTROL	OIO	OUT TO OUT
CU	CUBIC	PCF	PRECAST CONCRETE
CU FT	CUBIC FEET	PCF	POUNDS PER CUBIC FOOT
CU IN	CUBIC INCH	PL	PLATE
CU YD	CUBIC YARD	PLF	POUNDS PER LINEAR FOOT
D	DEEP	PLYWD	PLYWOOD
DBE	DECK BEARING ELEVATION	PRECAST	PRECAST
DBL	DOUBLE	PRELIM	PRELIMINARY
DEG	DEGREE	PS CONC	PRESTRESSED CONCRETE
DET	DETAIL	PSI	POUNDS PER SQUARE INCH
DEMO	DEMOLITION	PT	POST-TENSIONED
DIAM	DIAMETER	PT	PRESSURE-TREATED
DIAG	DIAGONAL	PT CONC	POST-TENSIONED CONCRETE
DIM	DIMENSION	QTY	QUANTITY
DIR	DIRECTION	R	RADIUS
DL	DEAD LOAD	RD	ROOF DRAIN
DWG	DRAWING	REF	REFERENCE
E	EAST	REIN	REINFORCE
EA	EACH	REVD	REVISION
EE	EACH END	RS	ROUGH SAWN
EF	EACH FACE	RU	ROUGH UNIT
EJ	EXPANSION JOINT	S	SOUTH
EL	ELEVATION	SCHED	SCHEDULE
ELEC	ELECTRIC	SCHEM	SCHEMATIC
ELEV	ELEVATOR	SE	STRUCTURAL ENGINEER
ENGR	ENGINEER	SECT	SECTION
EOD	EDGE OF DECK	SF	SQUARE FOOT (FEET)
EOS	EDGE OF GRATING	SH	SHEET
EOS	EDGE OF SLAB	SL	SLAB
EQ	EQUAL	SLBB	SHORT LEG BACK TO BACK
EQ SP	EQUALLY SPACED	SP	SUMP PIT
EQUIP	EQUIPMENT	SP	SUMP PIT
EQUIV	EQUIVALENT	SPCL	SPECIAL
EW	EACH WAY	SPEC	SPECIFICATION
EXC	EXCAVATE	SQ	SQUARE
EXIST	EXISTING	SQ IN	SQUARE INCH
EXP	EXPANSION	SQ YD	SQUARE-YARD
EXP BT	EXPANSION BOLT	STD	STANDARD
EXT	EXTERIOR	STF	STIFFENER
FD	FLOOR DRAIN	STL JST	STEEL JOIST
FDN	FOUNDATION	STRUC	STRUCTURAL
FF	FAR FACE	SYMM	SYMMETRICAL
FLR	FLOOR	T&B	TOP AND BOTTOM
FR	FRAME	TB	THROUGH BOLT
FS	FAR SIDE	TC	TOP CHORD
FSTNR	FASTENER	TEMJ	TEMPORARY MATCHES JOIST
FT	FEET	THK	THICKNESS
FTG	FOOTING	THRU	THROUGH
FUT	FUTURE	TOD	TOP OF BEAM
GA	GAGE	TOD	TOP OF CONCRETE
GALV	GALVANIZED	TOD	TOP OF DECK
GC	GENERAL CONTRACTOR	TOD	TOP OF DECK
GLU LAM	GLUE LAMINATED WOOD	TOD	TOP OF FOUNDATION
GR BM	GRADE BEAM	TOD	TOP OF GRATING
GRTG	GRATING	TOD	TOP OF PIER
H	HIGH	TOS	TOP OF STEEL
HDR	HEADER	TOW	TOP OF WALL
HOR	HANGER	TS	TUBE STEEL
HORIZ	HORIZONTAL	TYP	TYPICAL
HS	HIGH STRENGTH	UNO	UNLESS NOTED OTHERWISE
HSKPG	HOUSEKEEPING	VAR	VARIABLES
HT	HEIGHT	VERT, V	VERTICAL
I	MOMENT OF INERTIA	VIF	VERIFY IN FIELD
ID	INSIDE DIAMETER	W	WEST
IF	INSIDE FACE	W	WIDE
INFO	INFORMATION	W/	WITH
INT	INTERIOR	W/O	WITHOUT
JST	JOIST	WBL	WOOD BLOCKING
JST BRG	JOIST BEARING	WD	WOOD
K	KIP	WFL	WIDE FLANGE
KB	KNEE BRACE	WP	WORK POINT
KIP	THOUSAND POUNDS	WT	WEIGHT
KLF	KIPS PER LINEAR FOOT	WWF	WELDED WIRE FABRIC
KOP	KNOCK OUT PANEL	WWM	WELDED WIRE MESH
KSF	KIPS PER SQUARE FOOT	YD	YARD
KSI	KIPS PER SQUARE INCH		
KWY	KEYWAY		

## 100% CONSTRUCTION DOCUMENTS

Revisions:	Date:
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CONSULTANT	5126 W. Terrace Drive Suite 111 Madison, WI 53718-8343 608 / 242 1550 608 / 242 0787 fax www.graef-usa.com
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ARCHITECT/ENGINEER OF RECORD	13100 Watertown plank road suite 200 elm grove, wi 53122 Nagel Architects + Engineers project number:
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Office of Construction and Facilities Management	U.S. Department of Veterans Affairs
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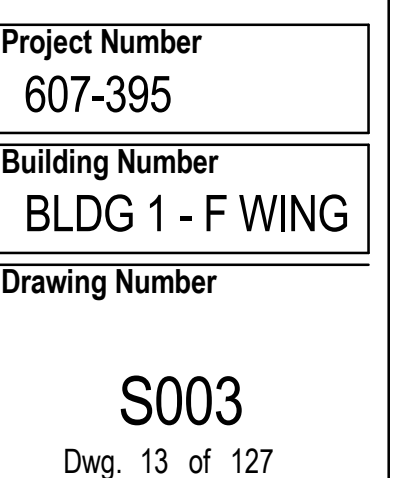
Drawing Title	GENERAL INFORMATION
Approved:	

Phase	100% CONSTRUCTION DOCUMENTS
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Project Title	Construct Cancer Treatment Center	Project Number	607-395
		Building Number	BLDG 1 - F WING
Location	WILLIAM S. MIDDLETON VA HOSPITAL, MADISON	Drawing Number	S001
Issue Date	05/17/2017	Checked	BES
		Drawn	KRN
			Dwg. 11 of 127

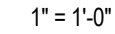
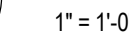
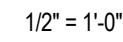


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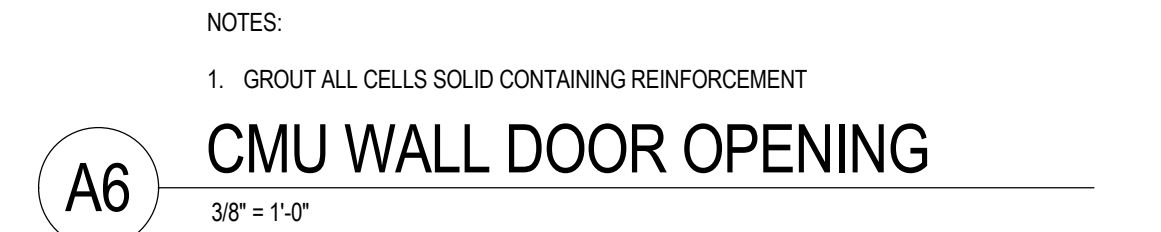
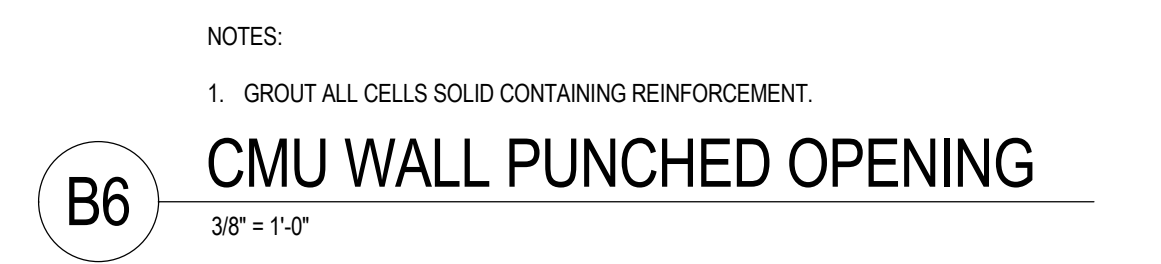


Project Number  
607-395

Building Number  
BLDG 1 - F WING

Drawing Number  
S004

Dwg. 14 of 127



Project Number  
607-395

Building Number  
BLDG 1 - F WING

Drawing Number  
S005

Dwg. 15 of 127



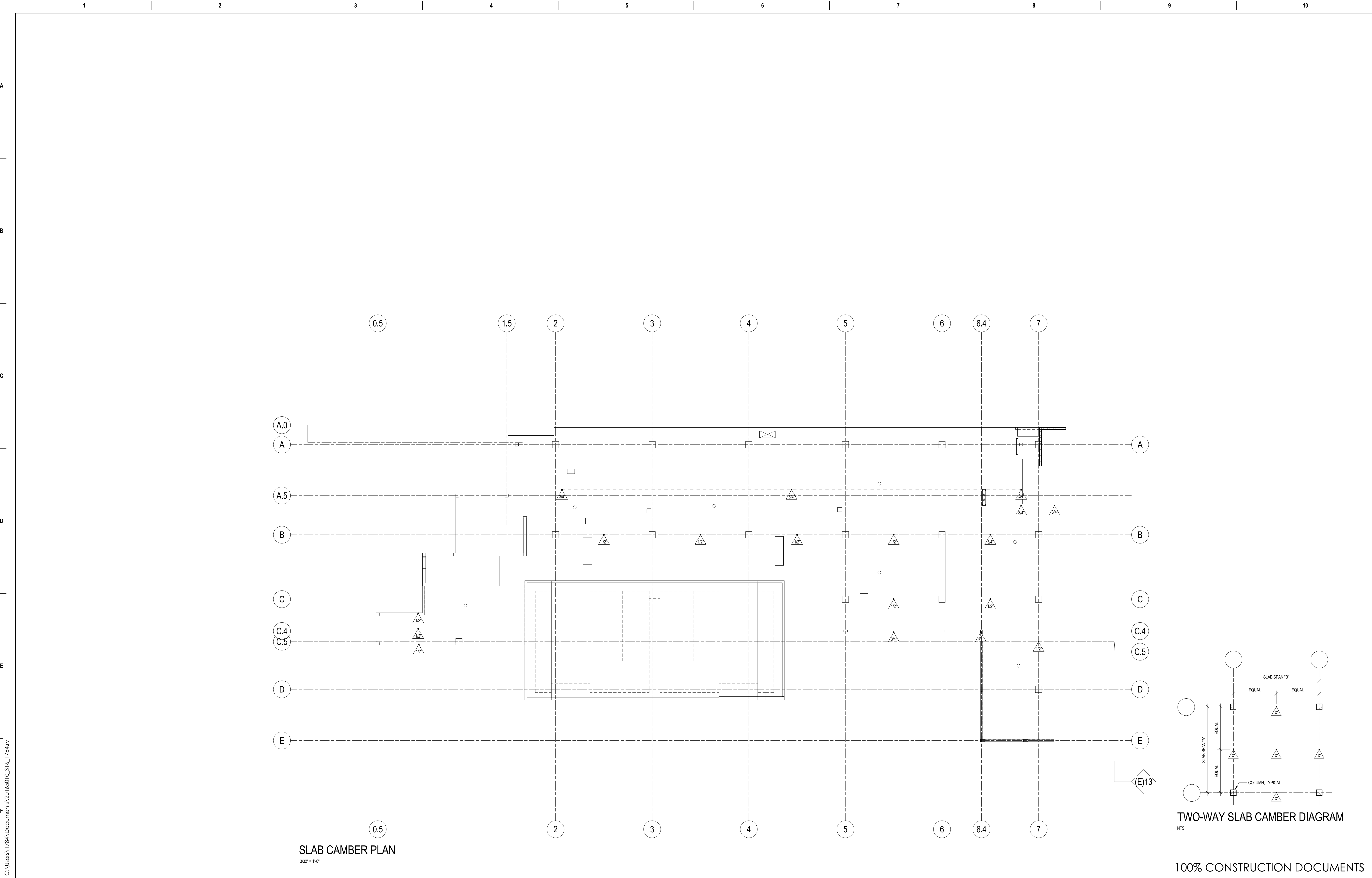
**C**

**D**



**F**

**F**



SLAB CAMBER PLAN

3/32" = 1'-0"

TWO-WAY SLAB CAMBER DIAGRAM

NTS

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Revisions:	Date:

CONSULTANT

**GRāEF**

5126 W. Terrace Drive  
Suite 111  
Madison, WI 53718-8343  
608 / 242 1550  
608 / 242 0787 fax  
[www.graef-usa.com](http://www.graef-usa.com)

ARCHITECT/ENGINEER OF RECORD

**magel**

architects + engineers

13100 watertown plank road  
suite 200  
elm grove, wi 53122  
Nagel Architects + Engineers  
project number:

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Office of  
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**VA** U.S. Department  
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Drawing Title

SLAB CAMBER PLAN

Approved:

Phase

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DOCUMENTS

FULLY SPRINKLERED

Project Title

Construct Cancer Treatment Center

Location

WILLIAM S. MIDDLETON VA HOSPITAL, MADISON

Issue Date

05/17/2017

Checked

BES

Drawn

KRN

Project Number

607-395

Building Number

BLDG 1 - F WING

Drawing Number

S011

Dwg. 17 of 127





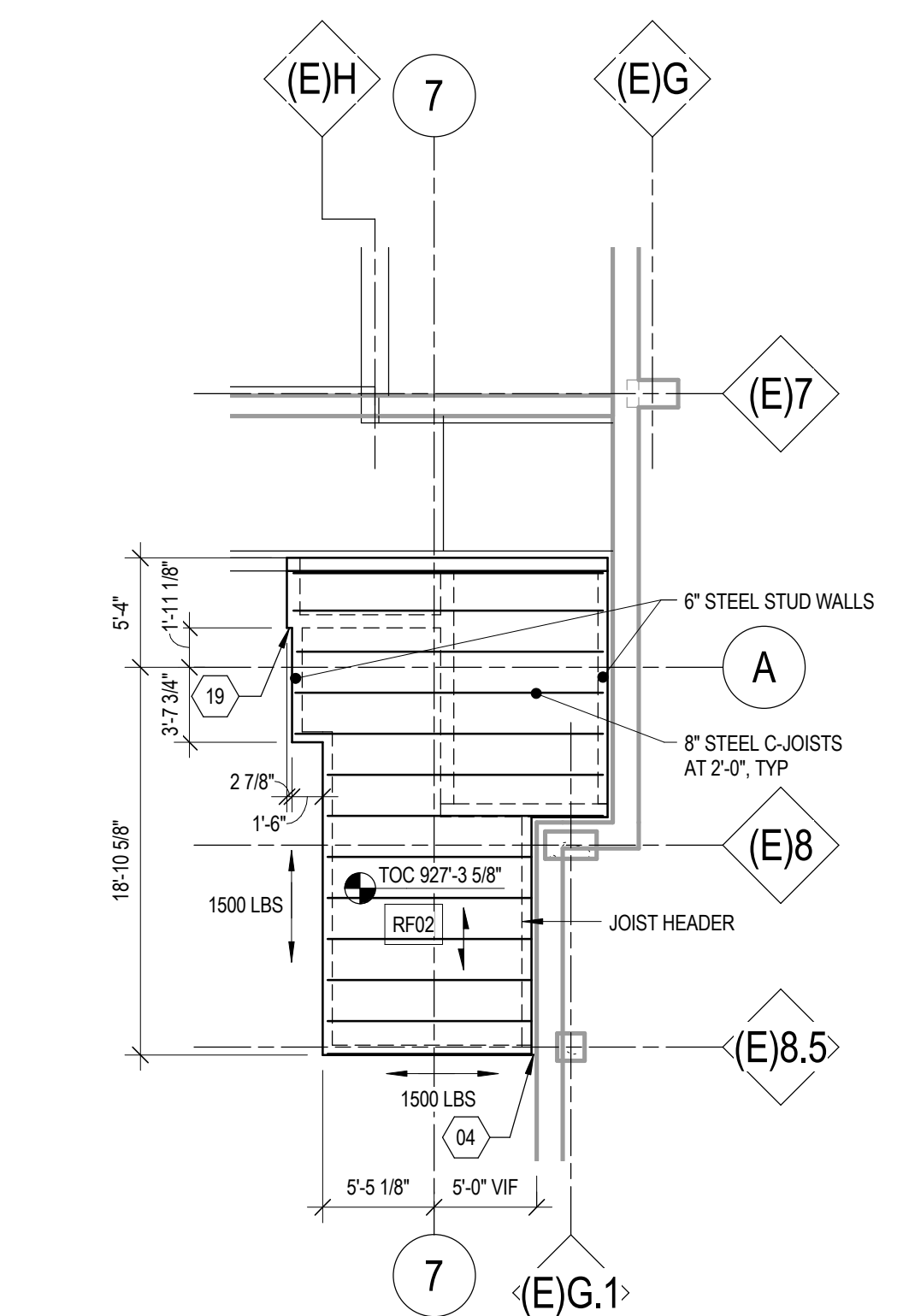


CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, ERECTION AND SEQUENCING OF ALL TEMPORARY SHORING. ALL LOCATIONS OF TEMPORARY BRACING, SHORING AND UNDERPINNING IS TO BE DETERMINED BY THE CONTRACTOR AND THE CONTRACTORS ENGINEER. SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS. SHORING NOTED IN THESE DRAWINGS ARE RECOMMENDATIONS AND DO NOT REFLECT ALL LOCATIONS OF TEMPORARY SHORING, BRACING AND UNDERPINNING.

04  
07  
11  
19  
20  
24

- 04 PROVIDE 3" EXPANSION JOINT BETWEEN BUILDINGS.  
07 PROVIDE COUPLERS FOR FUTURE COLUMNS. SEE C2/S601.  
12 (2)W4x5-D LONG LOCATED 1" BELOW TOP OF SLAB ON GRADE. PROVIDE AT ALL RE-ENTRANT  
CORNERS. ALL LOCATIONS NOT SHOWN ON PLAN.  
19 STEEL STUD WALL TO PROVIDE LATERAL BRACING TO CMU PARAPET WALL. COLD FORM FRAMING  
SHALL BE DESIGNED FOR A 1500 LB LOAD APPLIED TO THE TOP OF THE STUD WALL.  
20 VERIFY DIMENSIONS WITH EQUIPMENT MANUFACTURER AND HOLES REQUIRED FOR FASTENING.  
23 (3)W6x10-D LONG BEAM WITH SLAB (2)W6 x 9-D TOP AND BOTTOM, 43 THIES AT 6" OC EACH  
SIDE OF DEPRESSION. SEE B2/S601.

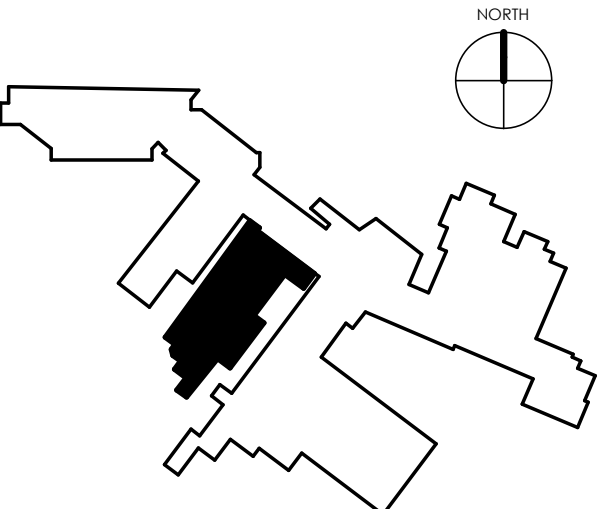
MARK	DESCRIPTION	REMARKS
FLO1	4 1/2" NORMAL WEIGHT CONCRETE OVER 2" x 20 GAGE COMPOSITE METAL DECK (6 1/2" TOTAL THICKNESS) REINFORCED WITH #4@16" OC EACH WAY	
FLO8	5" CONCRETE TWO-WAY FLAT SLAB REINFORCED WITH #4@12" OC EACH WAY TOP AND BOTTOM.	
FLO17	13" CONCRETE TWO-WAY FLAT SLAB REINFORCE WITH #6 CONTINUOUS AT 12" OC EACH WAY TOP AND BOTTOM ADDITIONAL REINFORCEMENT NOT ON PLAN. BAR PLACEMENT: ORDER 1 NORTH TO SOUTH BOTTOM, 6 EAST TO WEST BOTTOM, 3 EAST TO WEST TOP, 4 NORTH TO SOUTH TOP.	PROVIDE STANDARD HOOKS AT SLAB PERIMETER TYP.
RF01	3" x 18 GAGE WIDE RIB GALVANIZED METAL ROOF DECK	
RF02	1 1/2" x 20 GAGE WIDE RIB GALVANIZED METAL ROOF DECK	
SG02	5" CONCRETE SLAB ON GRADE REINFORCED WITH #3@12" OC EACH WAY	
SG03	5" CONCRETE SLAB ON GRADE REINFORCED WITH #4@12" OC EACH WAY	
SG04	12" CONCRETE SLAB ON GRADE REINFORCED WITH #4@12" OC EACH WAY TOP AND BOTTOM	
SG05	6" CONCRETE SLAB ON GRADE REINFORCED WITH #4@12" OC (EPOXY COATED) EACH WAY	



## HIGH ROOF PLAN

1/8" = 1'-0"

## 116


$$1/R^* = 1/0^*$$
$$1/R^* = 1/0^*$$
[illegible]**GRÄEF**

5126 W. Terrace Drive  
Suite 111  
Madison, WI 53718-8343  
608 / 242 1550  
608 / 242 0787 fax

[www.graef-usa.com](http://www.graef-usa.com)



13100 watertown plank road  
suite 200  
elm grove, wi 53122

Nagel Architects + Engineers  
project number

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Phase	100% CONSTRUCTION DOCUMENTS
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	Location

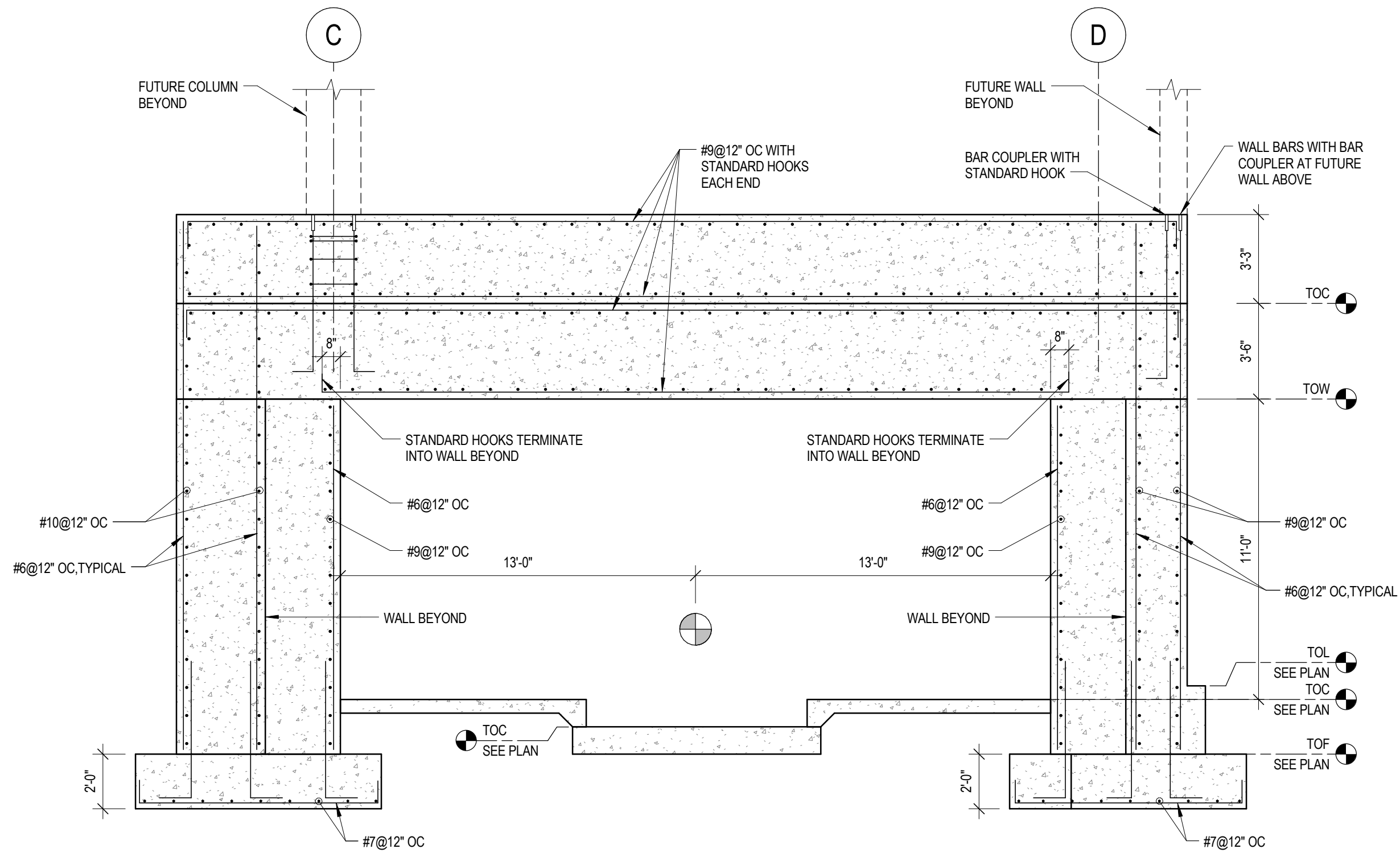
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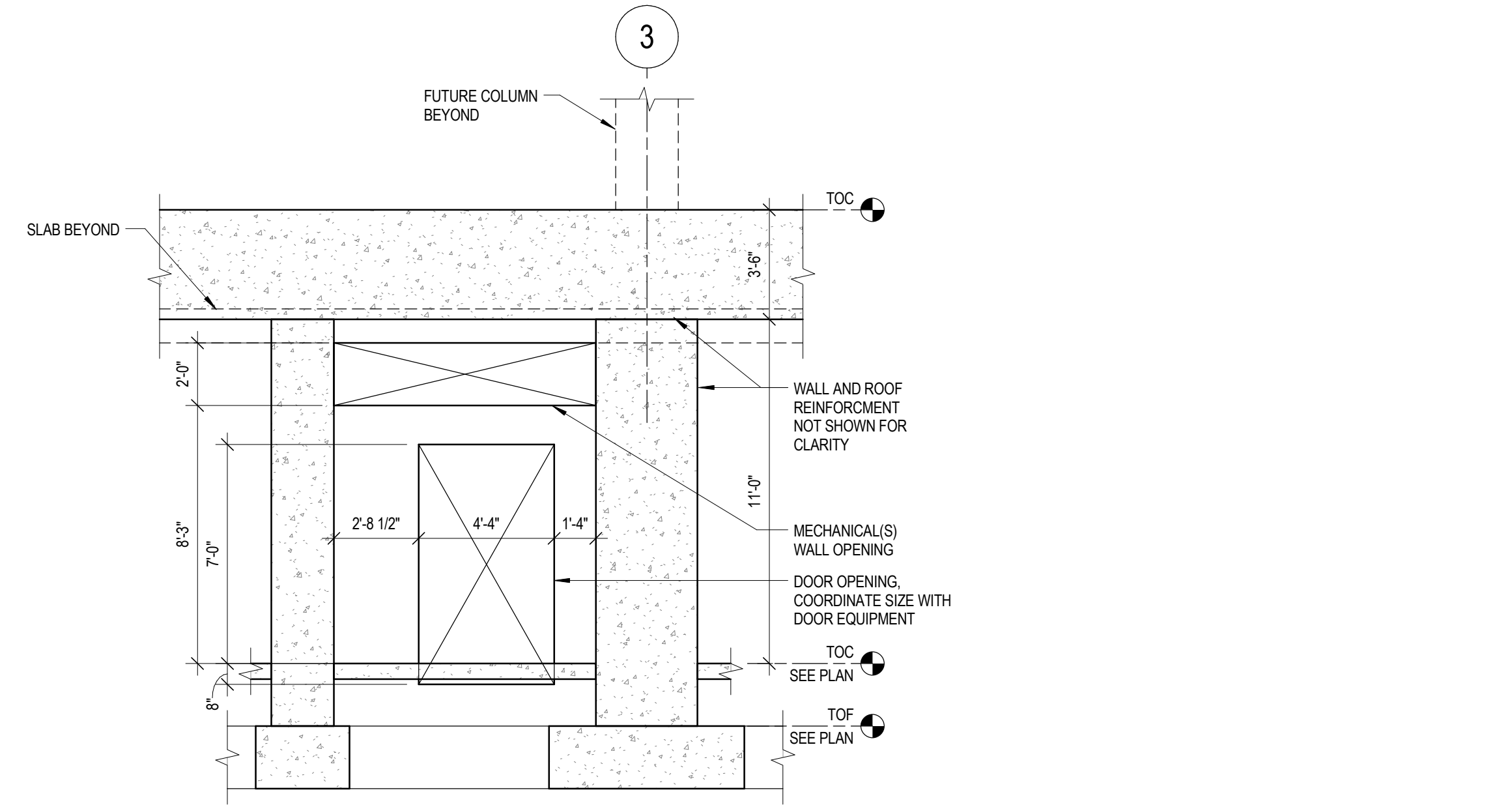
Drawn	KRN
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Project Number	607-395
Building Number	BLDG 1 - F WING

S101



## LINEAR ACCELERATOR SECTION



## WALK DOOR ELEVATION

**NOTE:**  
GC TO VERIFY ALL BRICK LEDGE ELEVATIONS  
WITH ARCHITECT PRIOR TO CONSTRUCTION.

FLOOR / ROOF SCHEDULE		
MARK	DESCRIPTION	REMARKS
F101	4 1/2" NORMAL WEIGHT CONCRETE OVER 2" X 20 GAGE COMPOSITE METAL DECK (6 1/2" TOTAL THICKNESS) REINFORCED WITH #4@15" OC EACH WAY TOP AND BOTTOM.	
F105	5" CONCRETE TWO-WAY FLAT SLAB REINFORCED WITH #4@12" OC EACH WAY TOP AND BOTTOM.	
F107	13" CONCRETE TWO-WAY FLAT SLAB REINFORCE WITH #8 CONTINUOUS AT 12" OC EACH WAY TOP AND BOTTOM. ADDITIONAL REINFORCEMENT NOTED ON PLAN. SEE PLACEMENT ORDER: 1) NORTH TO SOUTH BOTTOM, 2) EAST TO WEST BOTTOM, 3) EAST TO WEST TOP, 4) NORTH TO SOUTH TOP.	PROVIDE STANDARD HOOKS AT SLAB PERIMETER, TYP.
R011	3" X 18 GAGE WIDE RIB GALVANIZED METAL ROOF DECK	
R112	1 1/2" X 20 GAGE WIDE RIB GALVANIZED METAL ROOF DECK	
S003	5" CONCRETE SLAB ON GRADE REINFORCED WITH #3@12" OC EACH WAY	
S021	6" CONCRETE SLAB ON GRADE REINFORCED WITH #4@12" OC EACH WAY	
S024	12" CONCRETE SLAB ON GRADE REINFORCED WITH #4@12" OC EACH WAY TOP AND BOTTOM.	
S045	6" CONCRETE SLAB ON GRADE REINFORCED WITH #4@12" OC (EPOXY COATED) EACH WAY.	

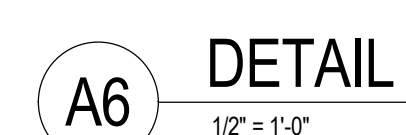
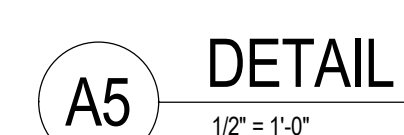
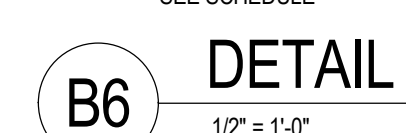
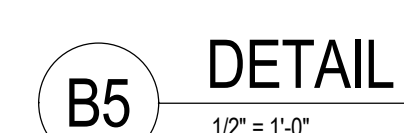
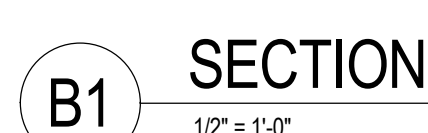
## SHEET KEYNOTES

- 01 LINEAR ACCELERATOR SCOENTER, SEE ARCHITECTURAL DRAWINGS. THE FLOOR SLAB SHALL BE LEVEL, WITH THE TOP OF THE TREATMENT COCK BEARING MOUNT WITH  $\pm 1/8"$  FOR 6'-0" RADIUS ABOUT SCOENTER. VERIFY WITH MANUFACTURERS SPECIFICATIONS.
- 02 VERIFY PIT DIMENSIONS WITH MANUFACTURER SHOP DRAWINGS.
- 03 AFTER BASE FRAME IS PLACED AND LEVELED BY MANUFACTURER, FILL RECESS WITH GROUT BY CONTRACTOR. SEE DESIGN SPECIFICATIONS FOR STANDARD GROUT PROPERTIES. PROVIDE MINIMUM SEVEN-DAY CURE TIME PRIOR TO INSTALLATION.
- 04 (2)6x6" 1" LONG LOCATED 1" BELOW TOP OF SLAB ON GRADE. PROVIDE AT ALL RE-ENTRANT CORNERS. ALL LOCATIONS NOT SHOWN ON PLAN.
- 05 6"x6" BLOCKOUT WITH 6" CONDUIT PHYSICS CABLE PASS. APPROX. 4 FEET APART OUTSIDE WALL AND APPROX. 6 INCHES APART INSIDE THE VAULT.

## 100% CONSTRUCTION DOCUMENTS

Project Number 607-395
Building Number BLDG 1 - F WING
Drawing Number  S200 Dwg. 20 of 127





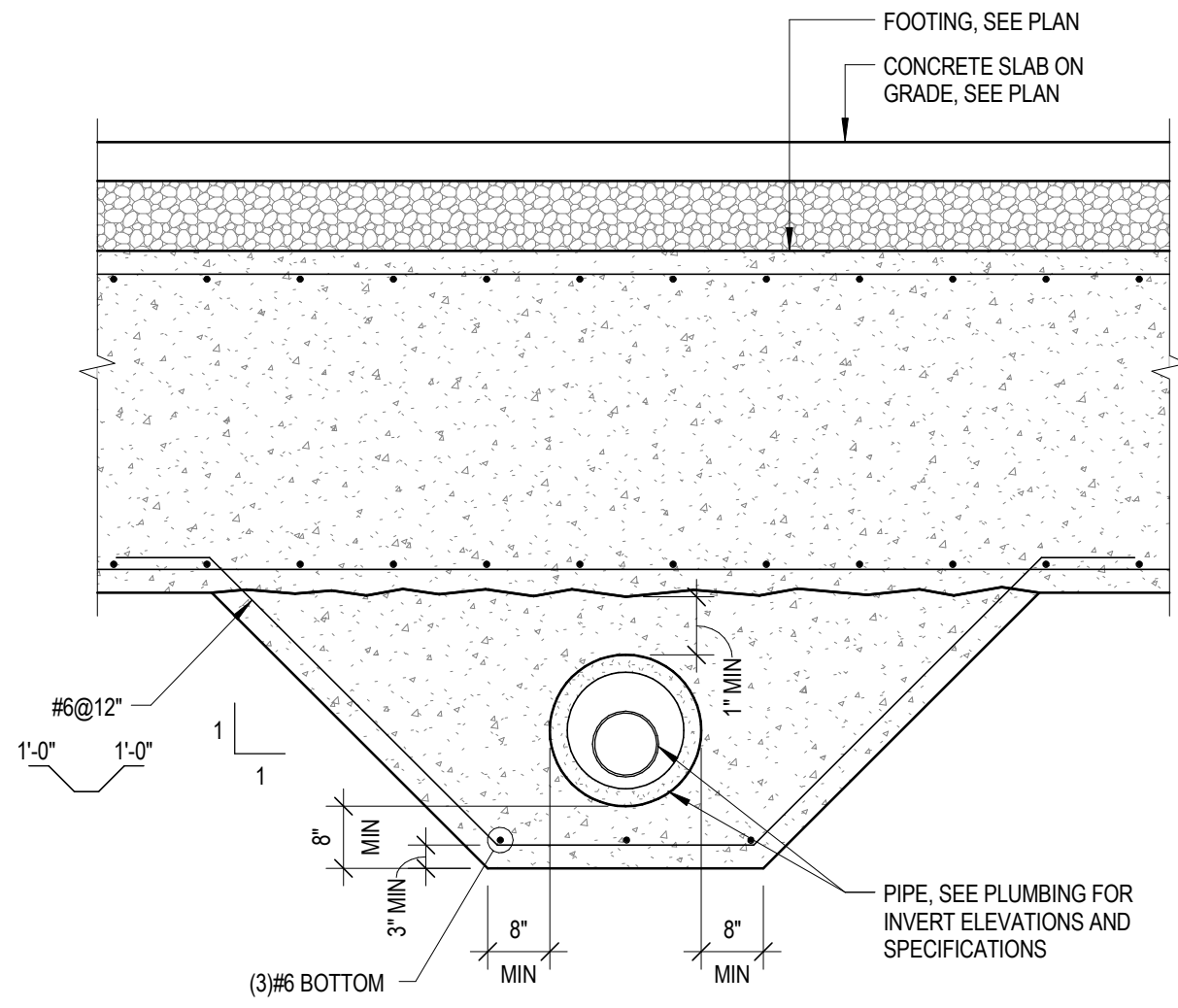
NOTES:

1. LOCATE SLAB BREAK UNDER DOOR THRESHOLD. COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS.

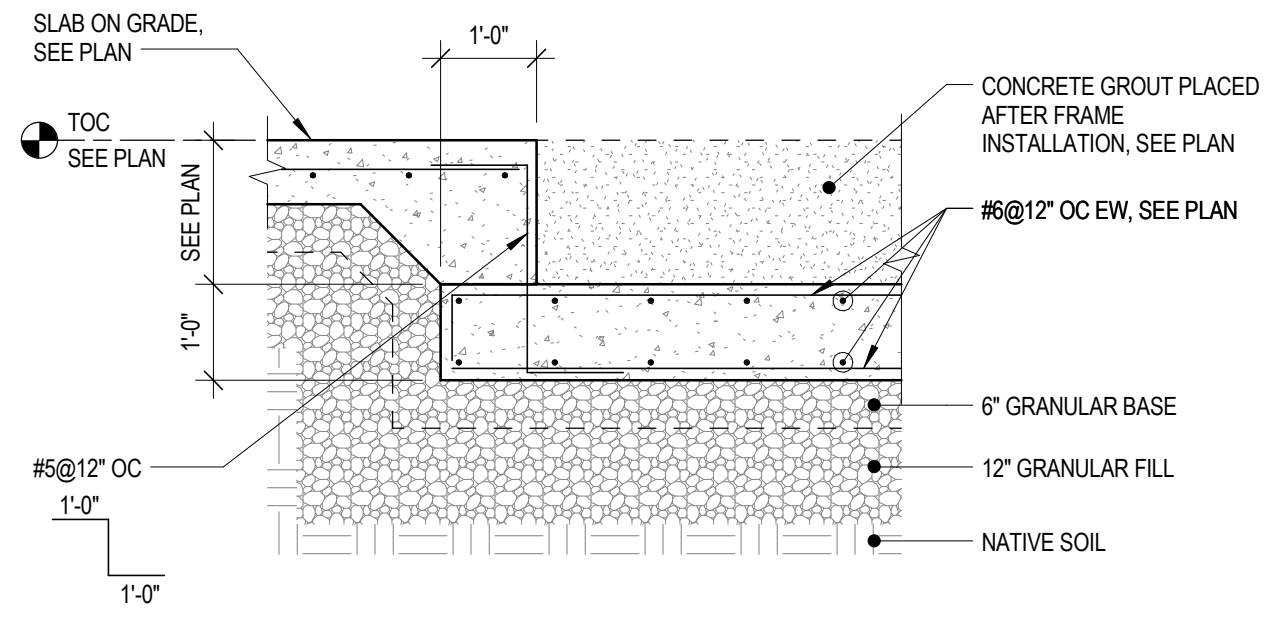
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Building Number	BLDG 1 - F WING
Drawing Number	S501
	Dwg. 21 of 127



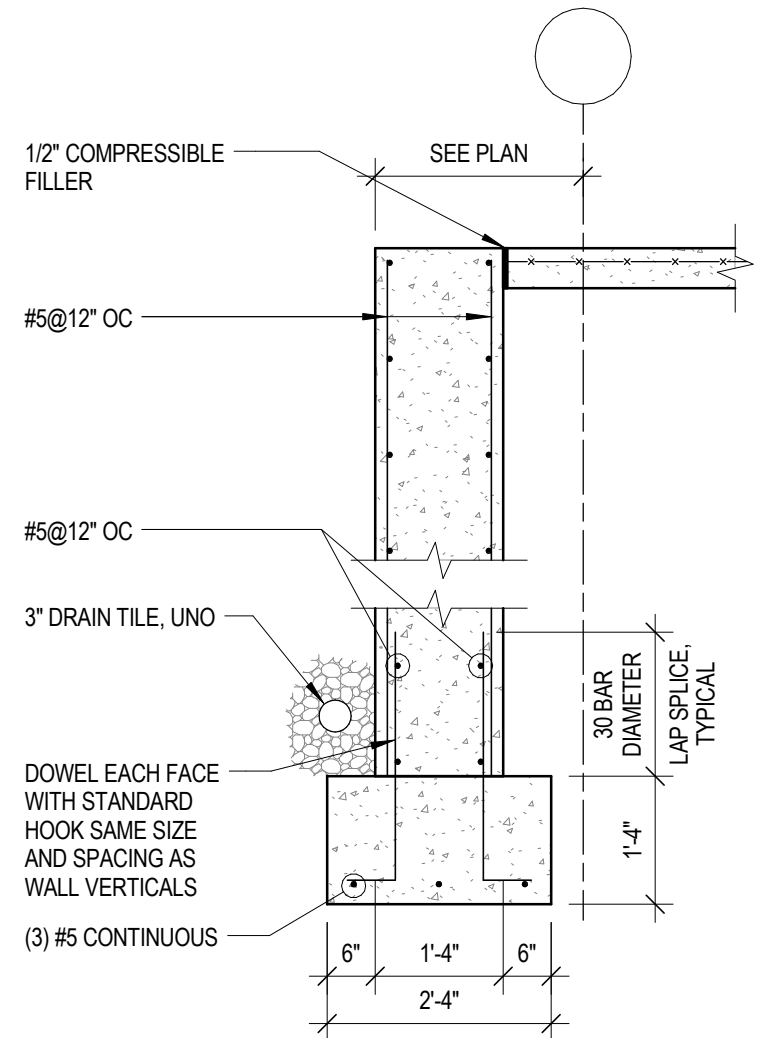
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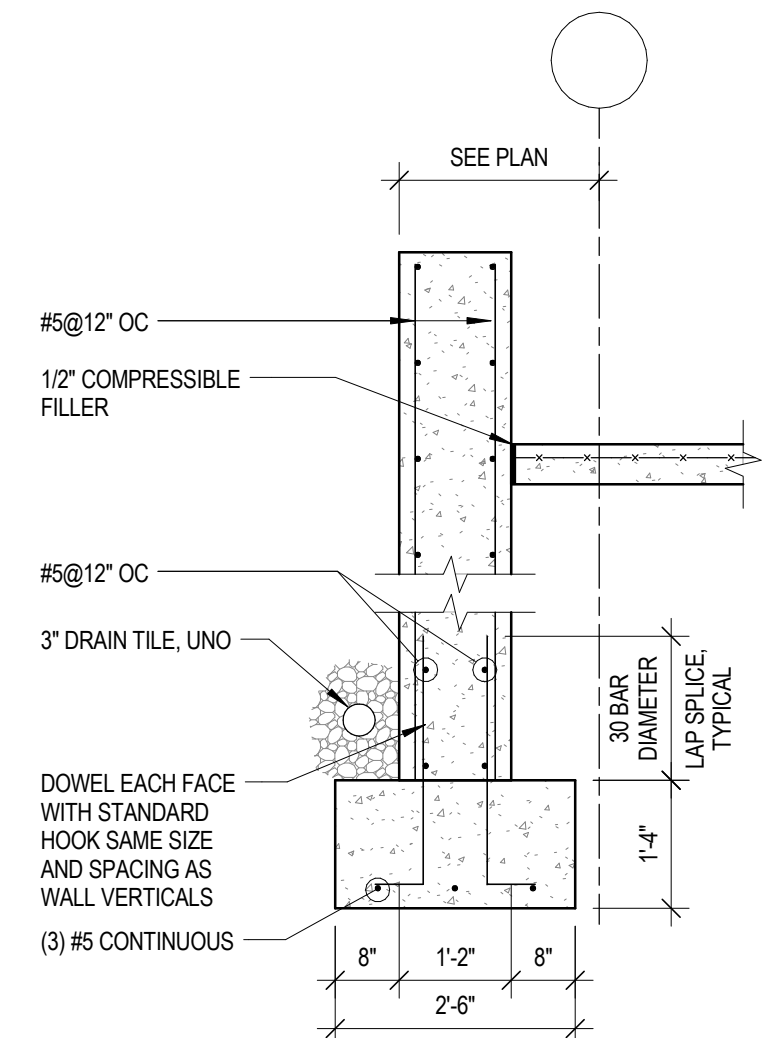
A4 DEPRESSED FOOTING AT PLUMBING PIPES  
1/2" = 1'-0"



A5 LINEAR ACCELERATION PIT SECTION  
1/2" = 1'-0"



B6 DETAIL  
1/2" = 1'-0"

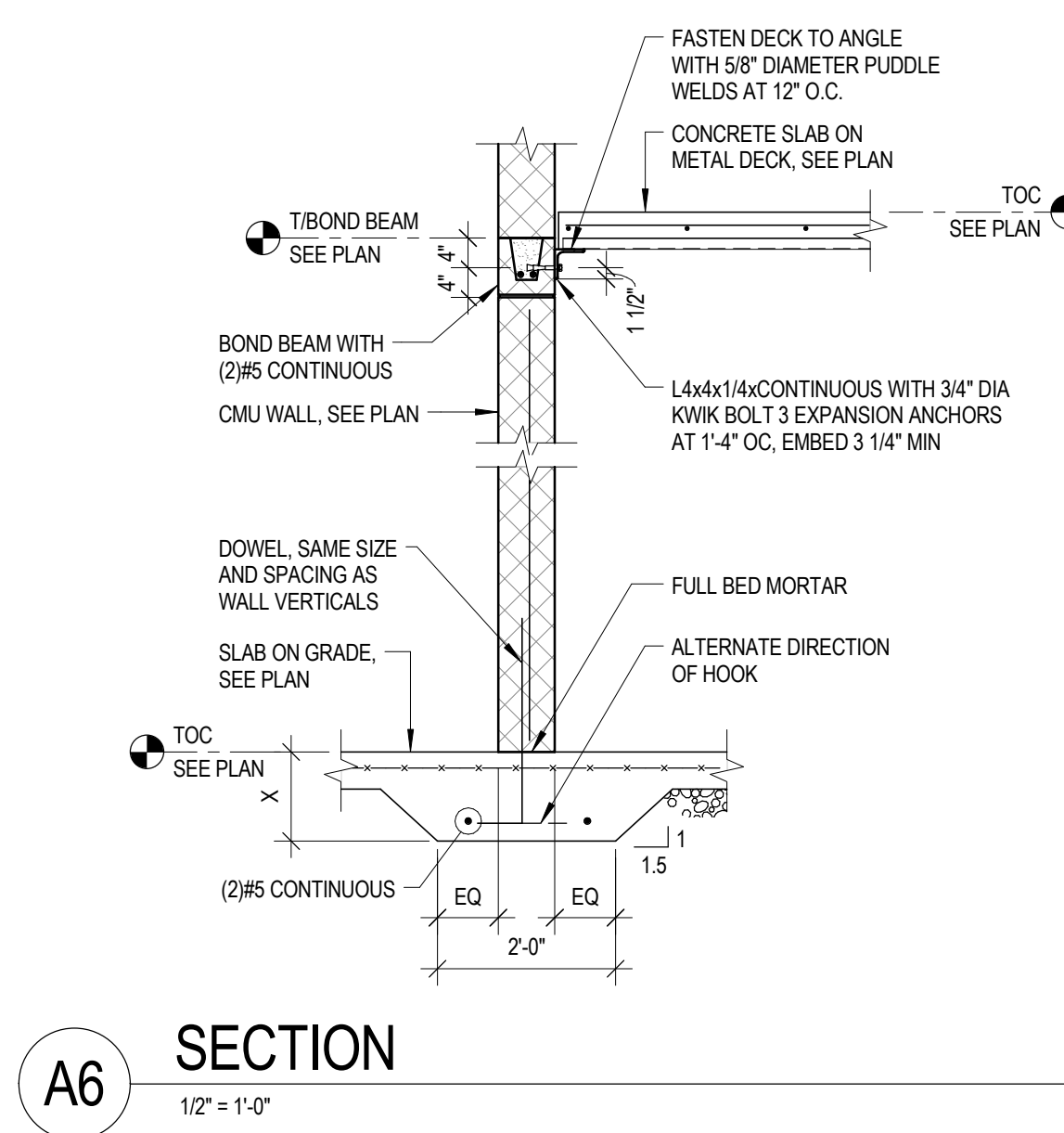
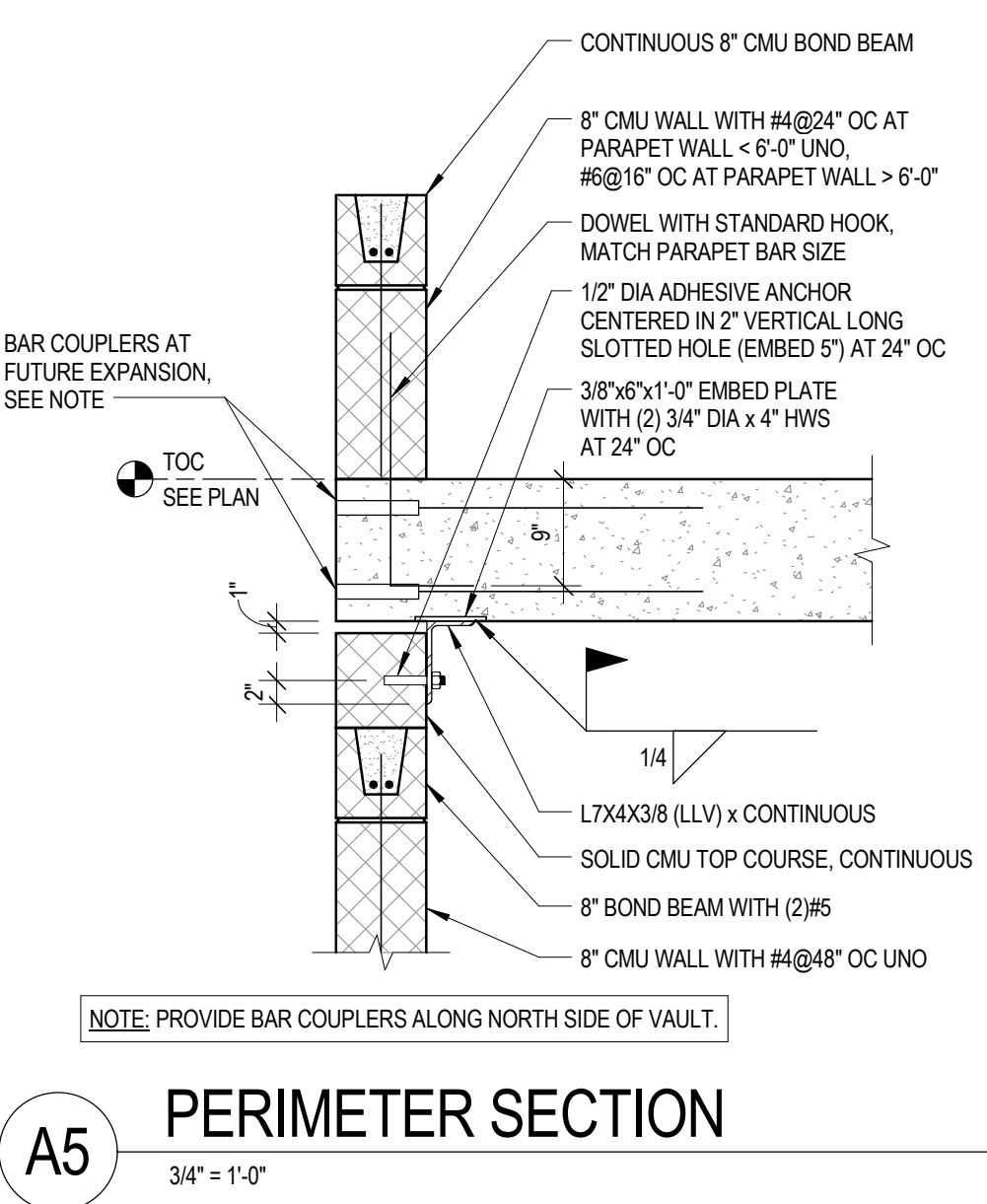
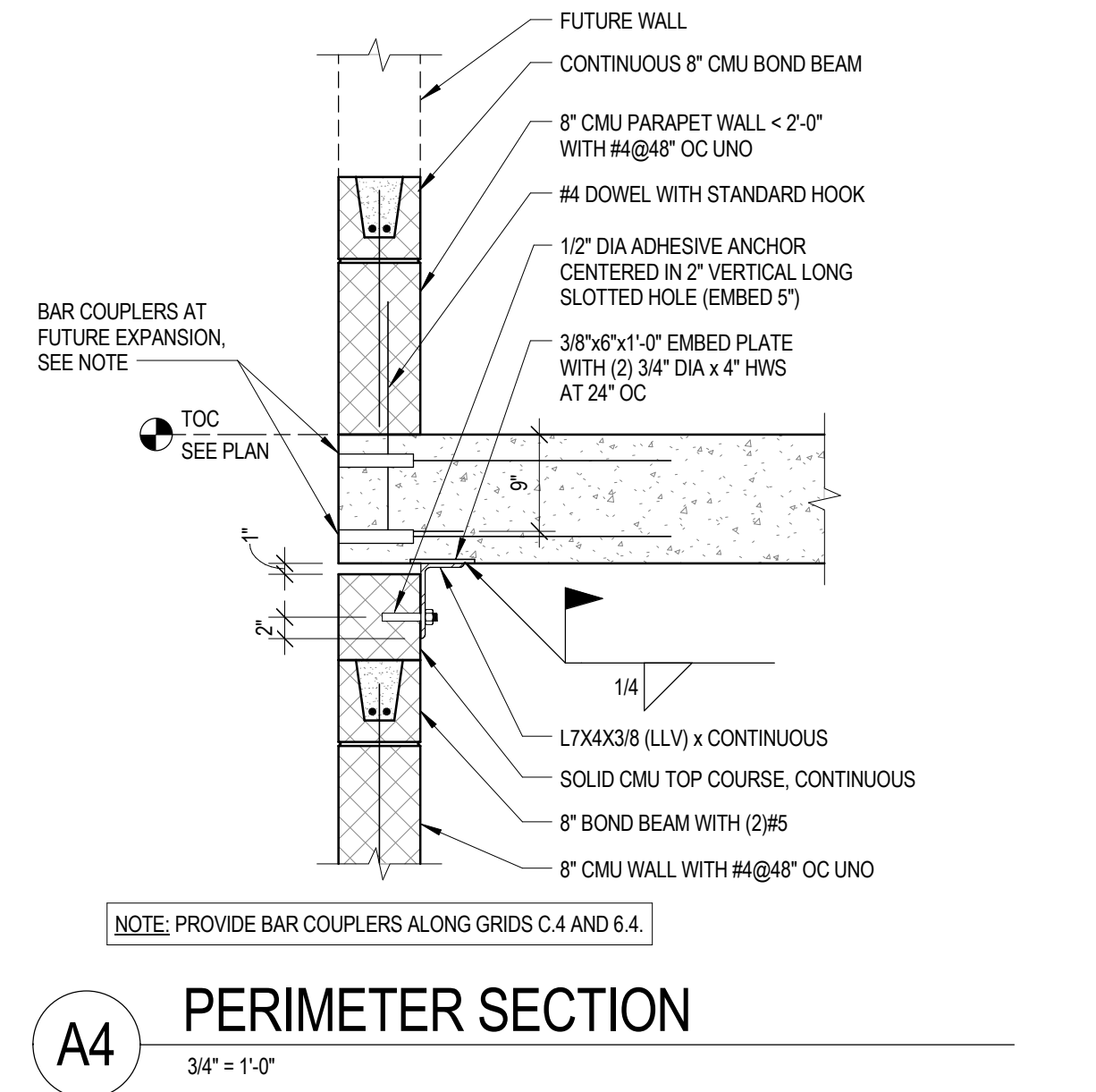
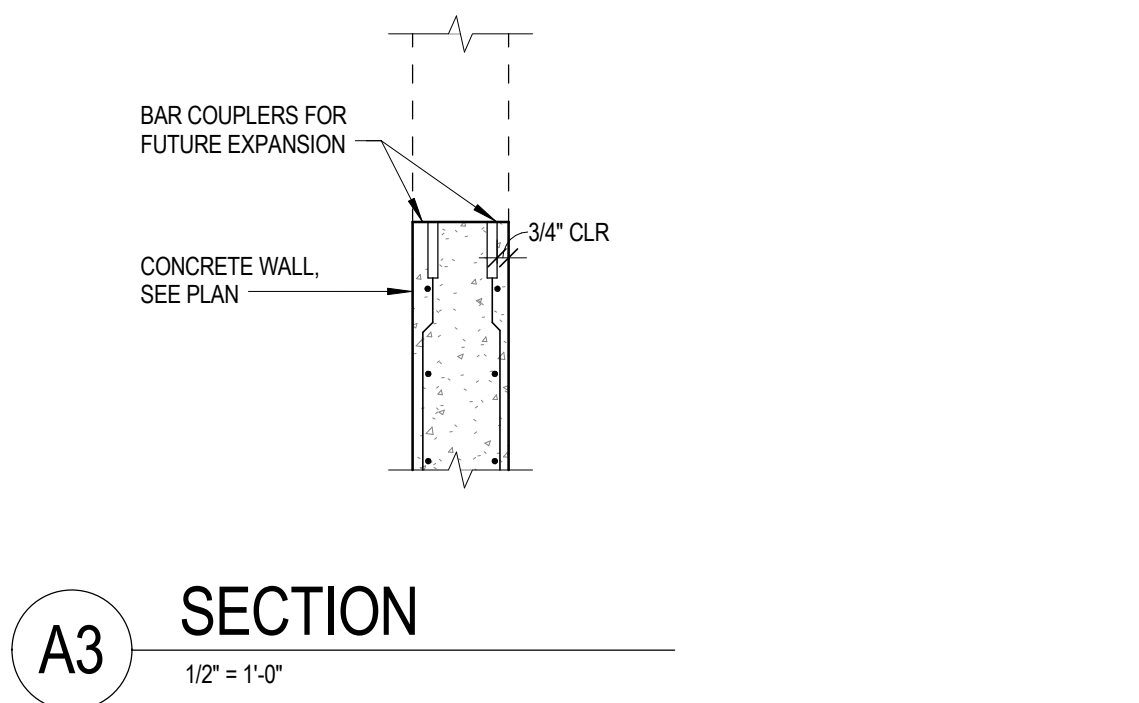
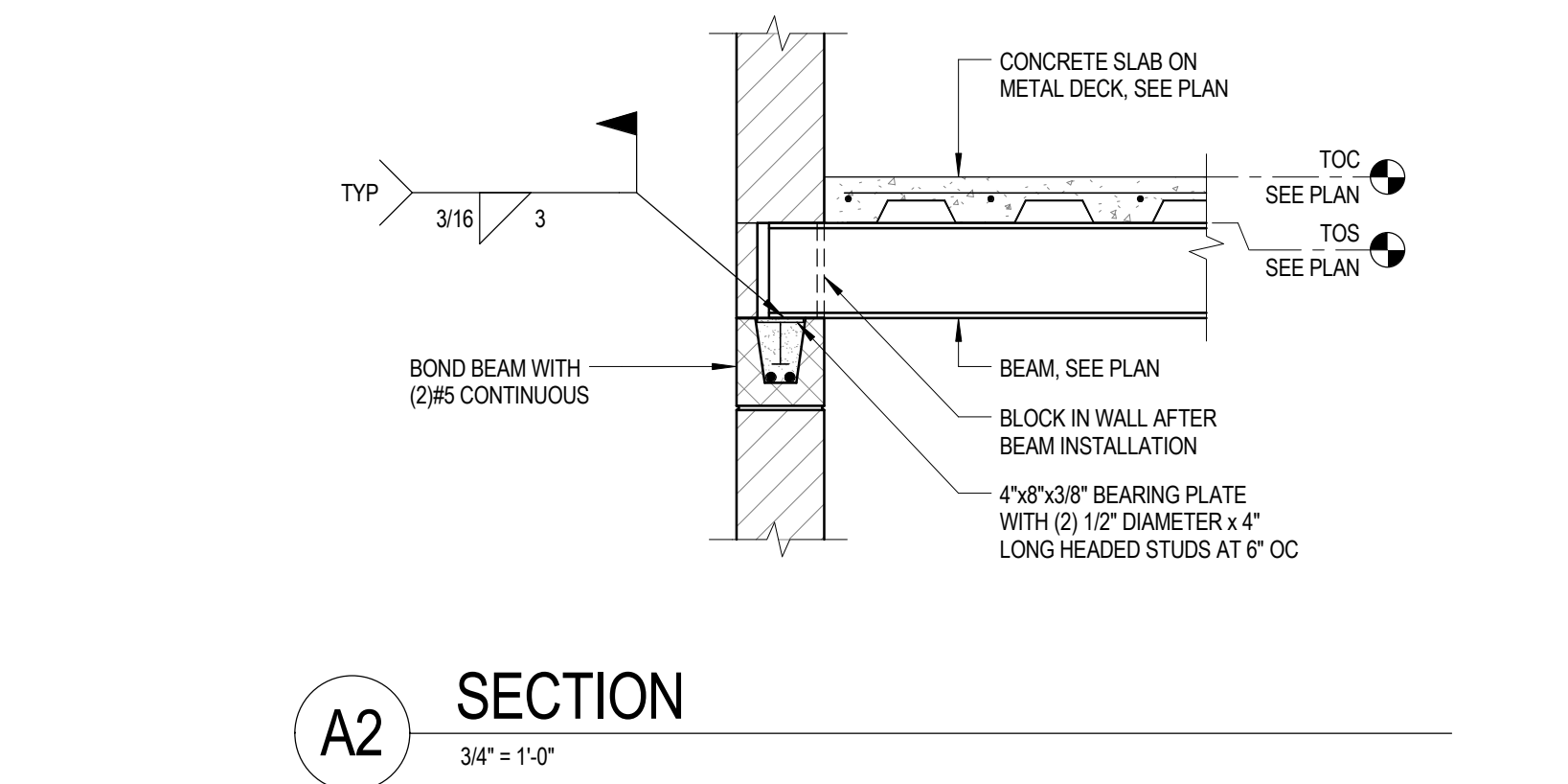
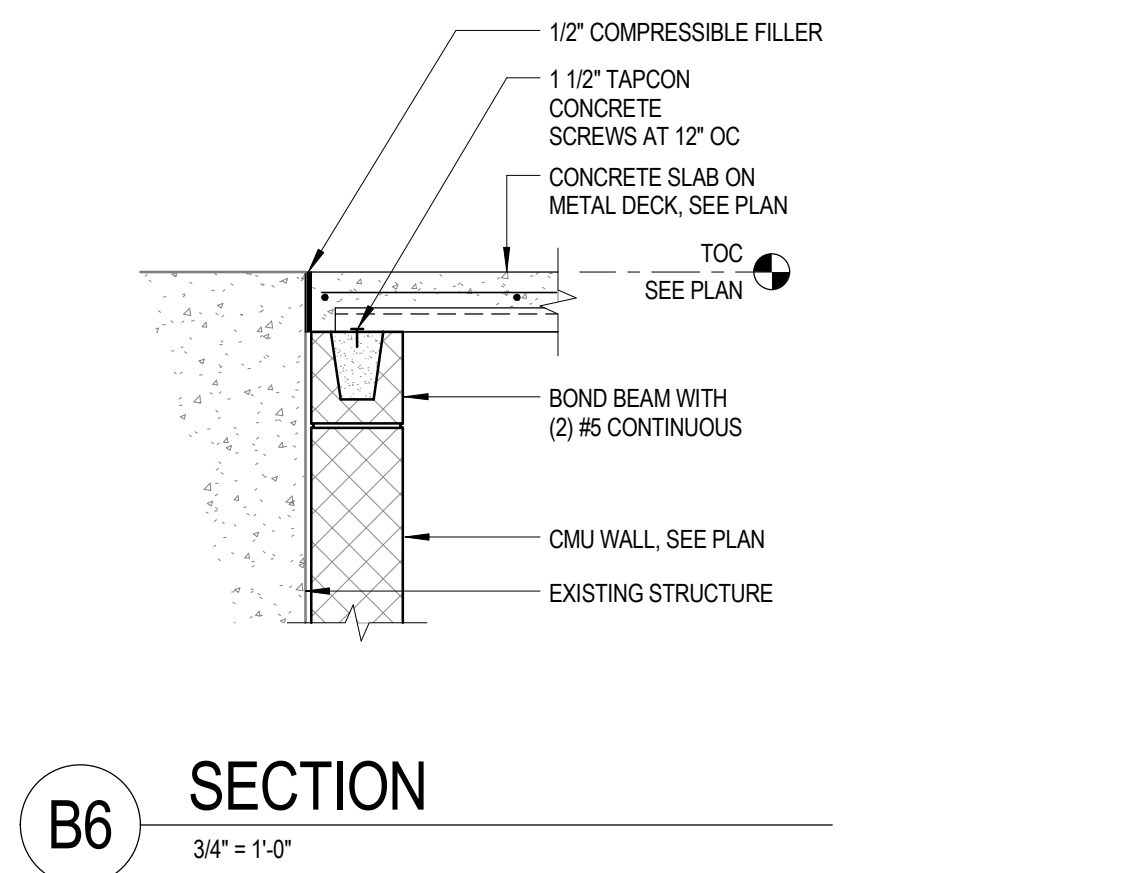
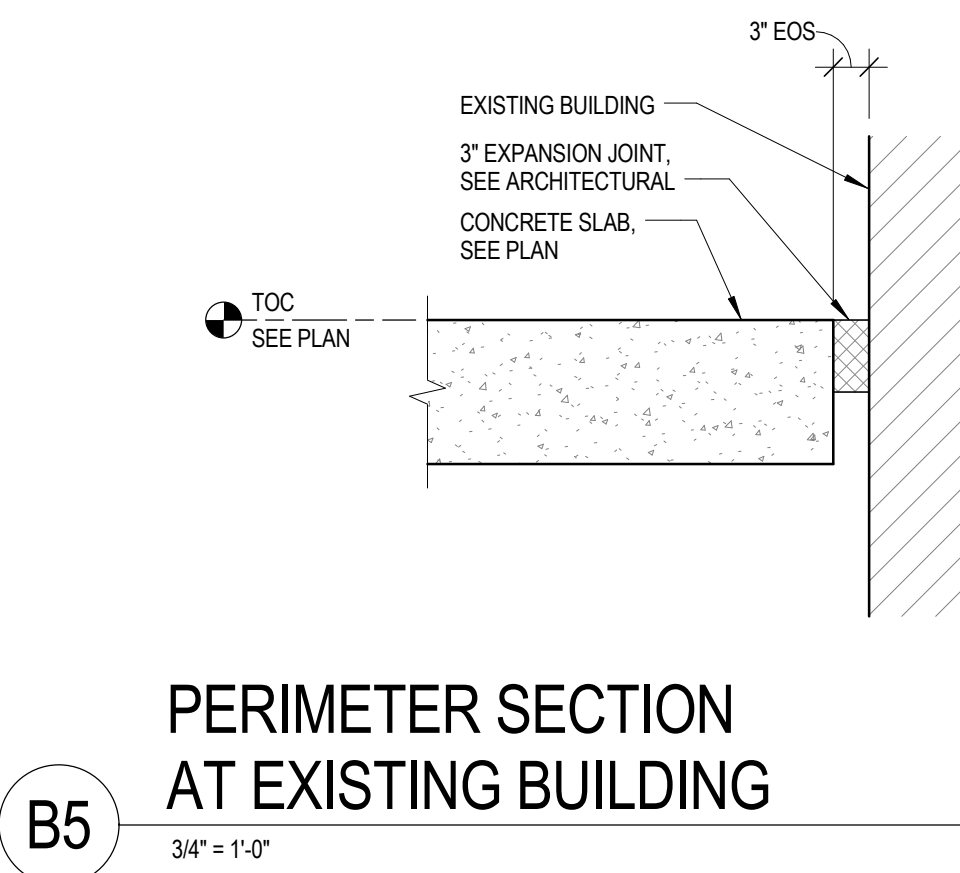
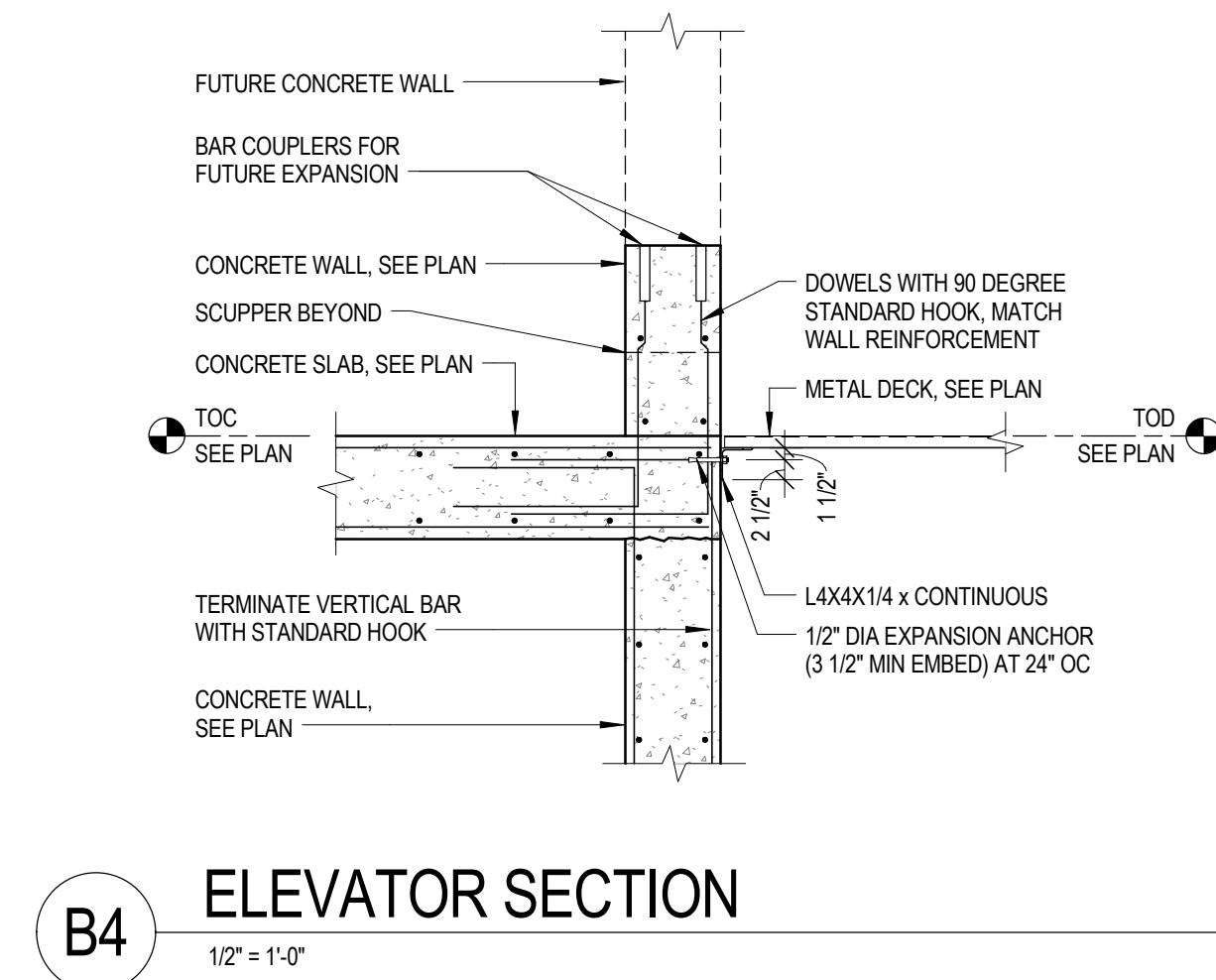
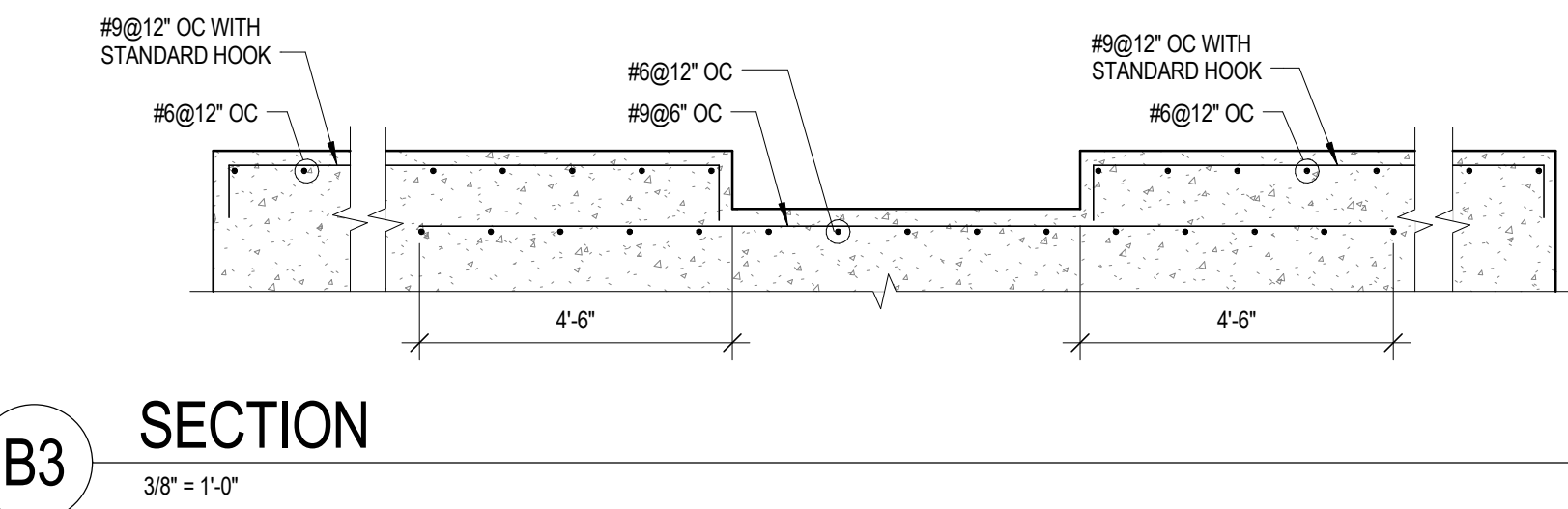
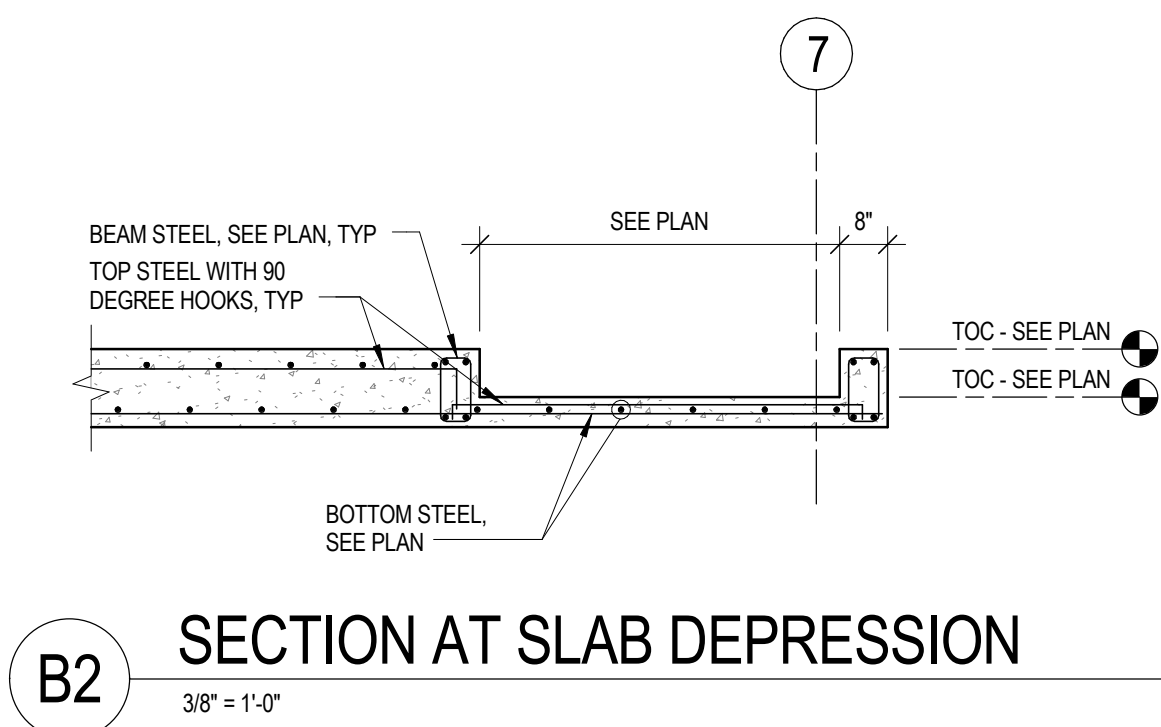
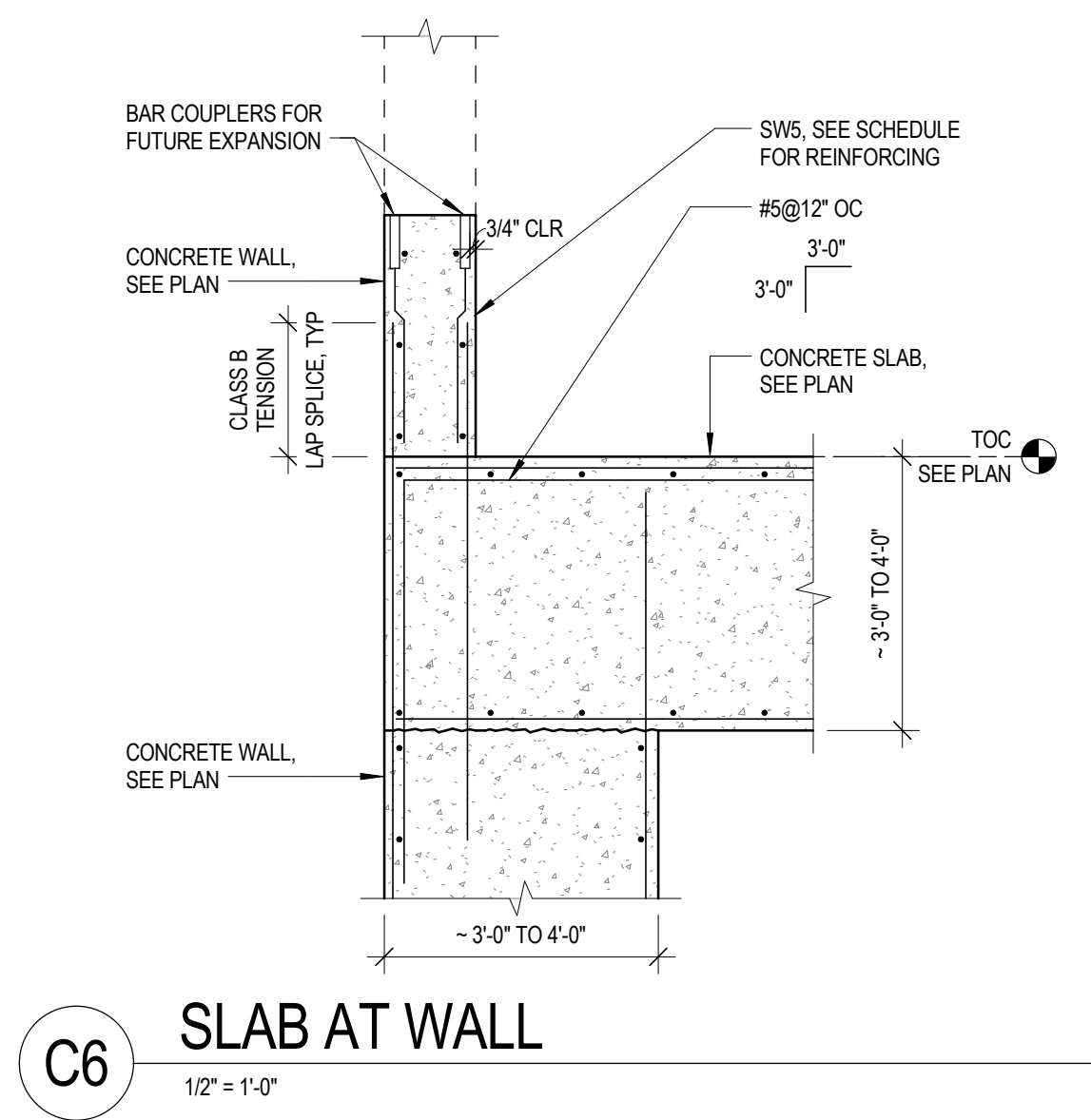
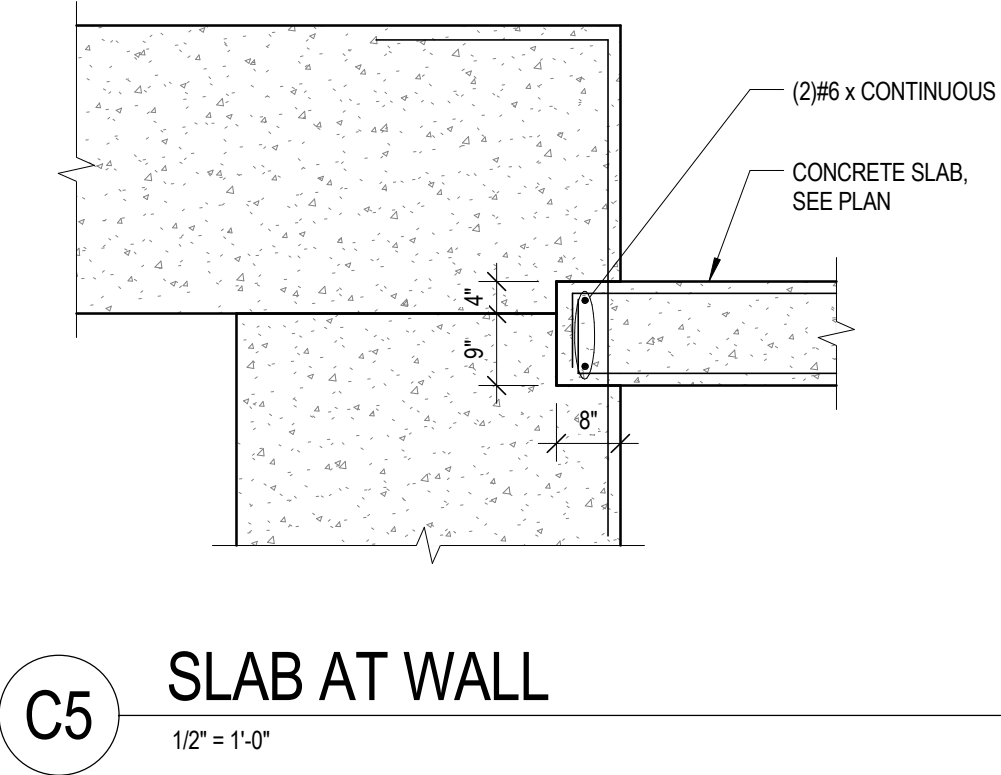
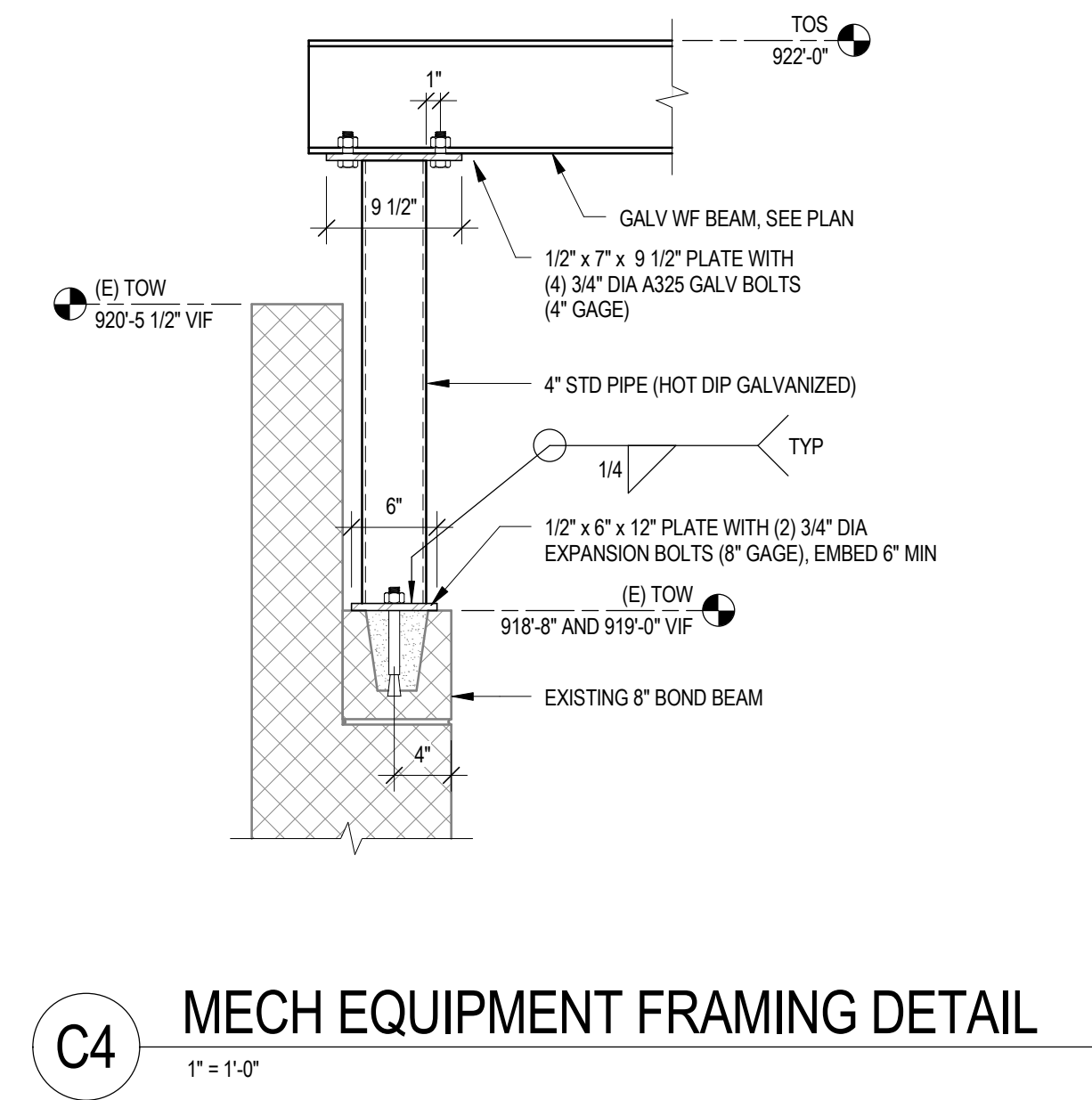
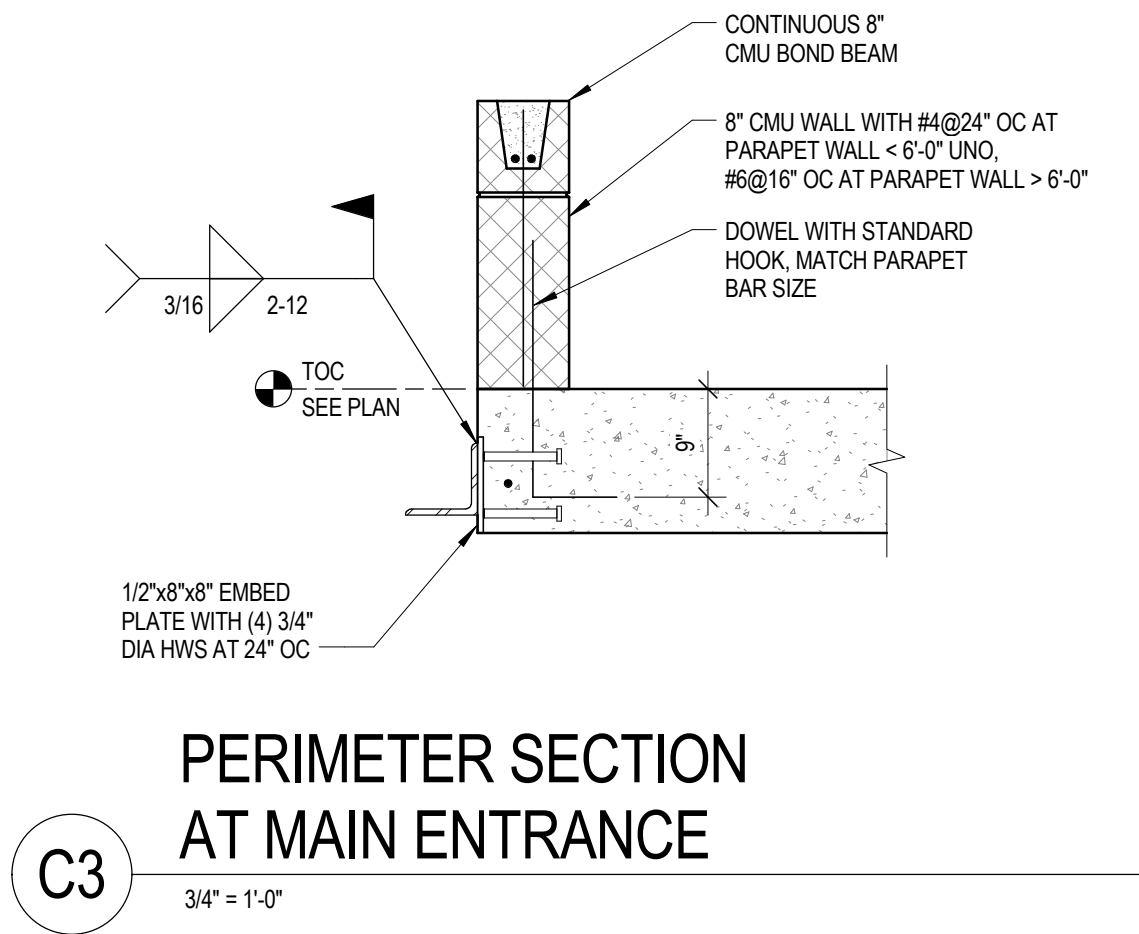
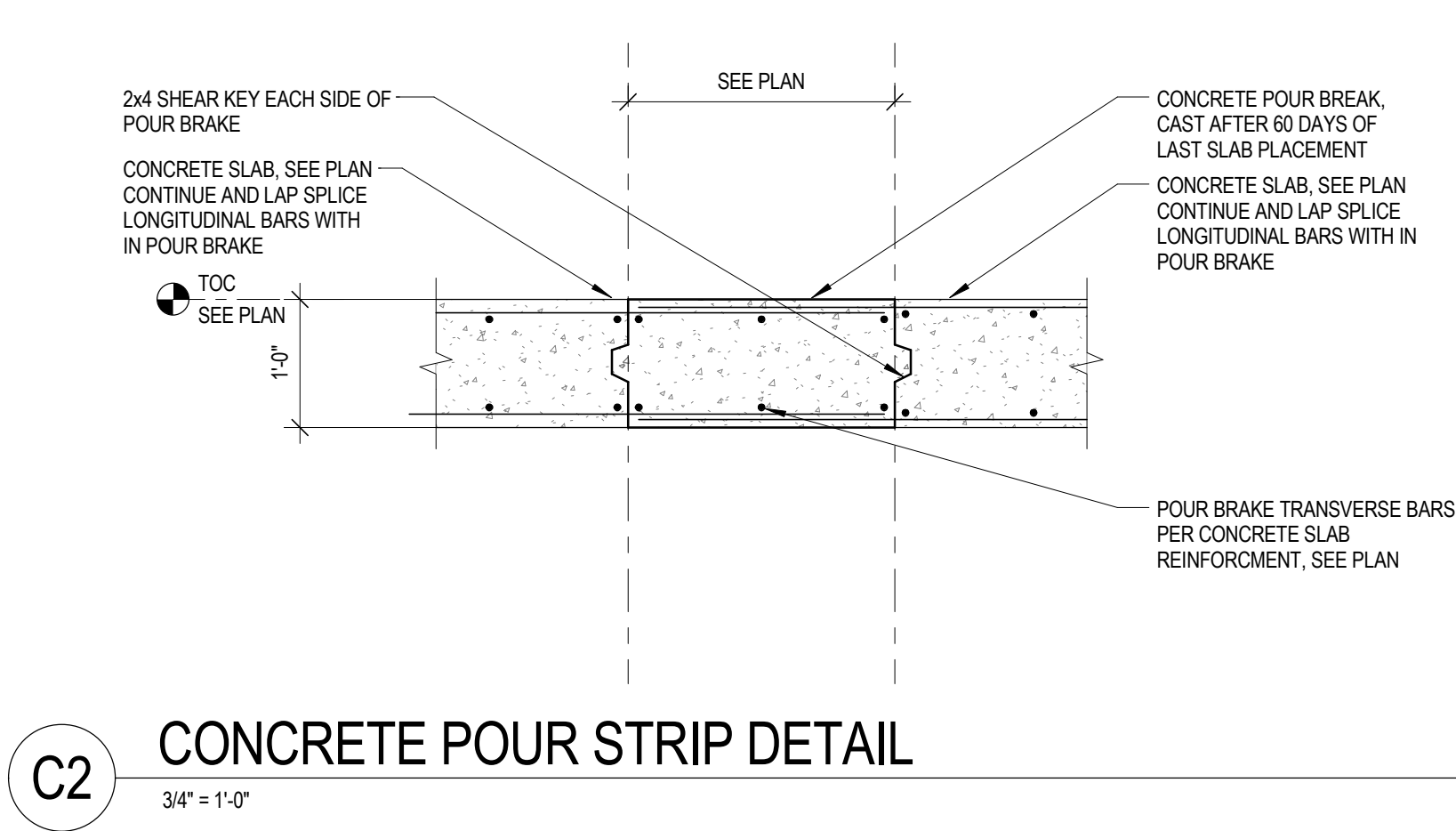


A6 DETAIL  
1/2" = 1'-0"

100% CONSTRUCTION DOCUMENTS

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Revisions:	Date:

CONSULTANT

**GRAEF**

5126 W. Terrace Drive  
Suite 111  
Madison, WI 53718-8343  
608 / 242 1550  
608 / 242 0787 fax  
[www.graef-usa.com](http://www.graef-usa.com)

ARCHITECT/ENGINEER OF RECORD

**nagel**

architects + engineers

13100 watertown plank road  
suite 200  
elm grove, wi 53122  
Nagel Architects + Engineers  
project number:

STAMP

Office of  
Construction  
and Facilities  
Management

**VA** U.S. Department  
of Veterans Affairs

Drawing Title

FOUNDATION, CONCRETE,  
MASONRY AND STEEL DETAILS

Approved:

Phase

100% CONSTRUCTION  
DOCUMENTS

FULLY SPRINKLERED

Project Title

Construct Cancer Treatment Center

Location

WILLIAM S. MIDDLETON VA HOSPITAL, MADISON

Issue Date

05/17/2017

Checked

BES

Drawn

KRN

Project Number

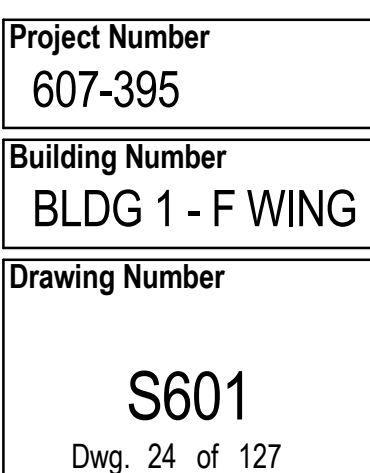
607-395

Building Number

BLDG 1 - F WING

Drawing Number

S503  
Dwg. 23 of 127





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<div><div></div><div><table><tr><th colspan="5">LINTEL SCHEDULE</th></tr><tr><th>MARK</th><th>TYPE</th><th>SIZE</th><th>BEARING LENGTH</th><th>REMARKS</th></tr><tr><td>N/A</td><td>I</td><td>8" BOND BEAM WITH (2) #5 BOTTOM</td><td>8"</td><td>ALL INTERIOR NON-LOAD BEARING WALL OPENINGS LESS THAN OR EQUAL TO 6'-0". SEE DETAIL A.</td></tr><tr><td>N/A</td><td>II</td><td>16" BOND BEAM WITH (2) #4 BOTTOM</td><td>8"</td><td>ALL INTERIOR NON-LOAD BEARING WALL OPENINGS GREATER THAN 6'-0" BUT LESS THAN OR EQUAL TO 12'-0". SEE DETAIL A.</td></tr><tr><td>L1</td><td>III</td><td>8" BOND BEAM WITH (2) #5 BOTTOM</td><td>8"</td><td>EXTERIOR NON-LOAD BEARING WALL OPENINGS LESS THAN OR EQUAL TO 4'-0". SEE DETAIL A.</td></tr><tr><td>L2</td><td>IV</td><td>16" BOND BEAM WITH (2) #4 BOTTOM</td><td>8"</td><td>EXTERIOR NON-LOAD BEARING WALL OPENINGS GREATER THAN OR EQUAL TO 4'-0" BUT LESS THAN OR EQUAL TO 12'-0". SEE DETAIL A.</td></tr><tr><td>L3</td><td>II</td><td>16" BOND BEAM WITH (2) #5 BOTTOM</td><td>8"</td><td></td></tr></table><div>LINTEL SCHEDULE NOTES: 1. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS. 2. COORDINATE BOTTOM OF LINTEL ELEVATION WITH ARCHITECTURAL DRAWINGS. 3. ALL DIMENSIONS ARE NOMINAL MASONRY DIMENSIONS UNLESS NOTED OTHERWISE. 4. PROVIDE MINIMUM 8" BEARING EACH END UNLESS NOTED OTHERWISE. 5. FOR CMU LINTELS, CONTRACTOR TO PROVIDE TEMPORARY SHORING UNTIL MASONRY HAS PROPERLY SET (3 DAYS MINIMUM).</div><div><div><div><div><div><div></div><div>SEE ARCHITECTURAL DRAWINGS</div></div><div><div>INTERIOR CMU WALL</div><div>BOND BEAM</div></div><div>8"</div><div>TYPE I</div></div><div><div><div><div></div><div>SEE ARCHITECTURAL DRAWINGS</div></div><div><div>INTERIOR CMU WALL</div><div>BOND BEAM</div></div><div>16"</div><div>TYPE II</div></div><div><div><div><div><div>8" CMU WALL</div><div>BRICK VENEER</div></div><div><div>3/4" DIAMETER SS EXPANSION ANCHOR AT 2'-0" OC (EMBED = 3 1/2")</div><div>BOND BEAM</div></div><div>1'-4"1/2"</div><div>3/8" x 8" x 8" BENT PLATE</div><div>TYPE III</div></div><div><div><div><div><div>8" CMU WALL</div><div>BRICK VENEER</div></div><div><div>3/4" DIAMETER SS EXPANSION ANCHOR AT 2'-0" OC (EMBED = 3 1/2")</div><div>BOND BEAM</div></div><div>1'-4"1/2"</div><div>3/8" x 8" x 8" BENT PLATE</div><div>TYPE IV</div></div><div><div><div><div>MASONRY WALL OPENING</div><div>CMU WALL</div></div><div>(2) #5. EXTEND BARS FROM BOTTOM OF WALL TO FLOOR / ROOF ABOVE. GROUT CORE SOLID.</div></div><div>DETAIL A</div></div></div></div></div></div></div></div></div></div></div></div>										LINTEL SCHEDULE					MARK	TYPE	SIZE	BEARING LENGTH	REMARKS	N/A	I	8" BOND BEAM WITH (2) #5 BOTTOM	8"	ALL INTERIOR NON-LOAD BEARING WALL OPENINGS LESS THAN OR EQUAL TO 6'-0". SEE DETAIL A.	N/A	II	16" BOND BEAM WITH (2) #4 BOTTOM	8"	ALL INTERIOR NON-LOAD BEARING WALL OPENINGS GREATER THAN 6'-0" BUT LESS THAN OR EQUAL TO 12'-0". SEE DETAIL A.	L1	III	8" BOND BEAM WITH (2) #5 BOTTOM	8"	EXTERIOR NON-LOAD BEARING WALL OPENINGS LESS THAN OR EQUAL TO 4'-0". SEE DETAIL A.	L2	IV	16" BOND BEAM WITH (2) #4 BOTTOM	8"	EXTERIOR NON-LOAD BEARING WALL OPENINGS GREATER THAN OR EQUAL TO 4'-0" BUT LESS THAN OR EQUAL TO 12'-0". SEE DETAIL A.	L3	II	16" BOND BEAM WITH (2) #5 BOTTOM	8"		A
LINTEL SCHEDULE																																													
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F		F																																											

100% CONSTRUCTION DOCUMENTS

		CONSULTANT	ARCHITECT/ENGINEER OF RECORD		STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title		Project Number	
		<div><div>GRAEF</div><div>5126 W. Terrace Drive Suite 111 Madison, WI 53718-8343 608 / 242 1550 608 / 242 0787 fax <a href="http://www.graef-usa.com">www.graef-usa.com</a></div></div>	<div><div>nagel</div><div>architects + engineers</div><div>13100 watertown plank road suite 200 elm grove, wi 53122</div><div>Nogel Architects + Engineers project number:</div></div>				MASONRY SCHEDULES	100% CONSTRUCTION DOCUMENTS	Construct Cancer Treatment Center		607-395	
							Approved:	FULLY SPRINKLERED	Location WILLIAM S. MIDDLETON VA HOSPITAL, MADISON	Building Number BLDG 1 - F WING		
Revisions:	Date:					VAU.S. Department of Veterans Affairs	Issue Date 05/17/2017	Checked BES	Drawn KRN	Drawing Number S605 Dwg. 25 of 127		

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Revisions:	Date:

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GRāEF

5126 W. Terrace Drive  
Suite 111  
Madison, WI 53718-8343  
608 / 242 1550  
608 / 242 0787 fax  
[www.graef-usa.com](http://www.graef-usa.com)

ARCHITECT/ENGINEER OF RECORD

nagel

architects + engineers

13100 watertown plank road  
suite 200  
elm grove, wi 53122

Nagel Architects + Engineers  
project number:

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VA

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of Veterans Affairs

Drawing Title
MASONRY SCHEDULES
Approved:

Phase
100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

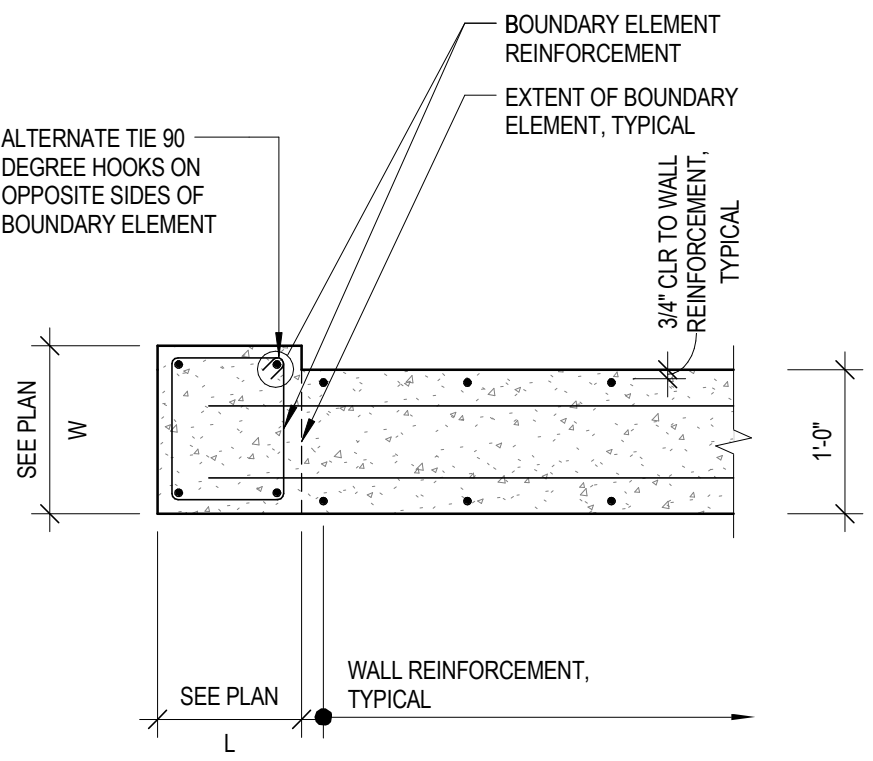
Project Title
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S605
Dwg. 25 of 127

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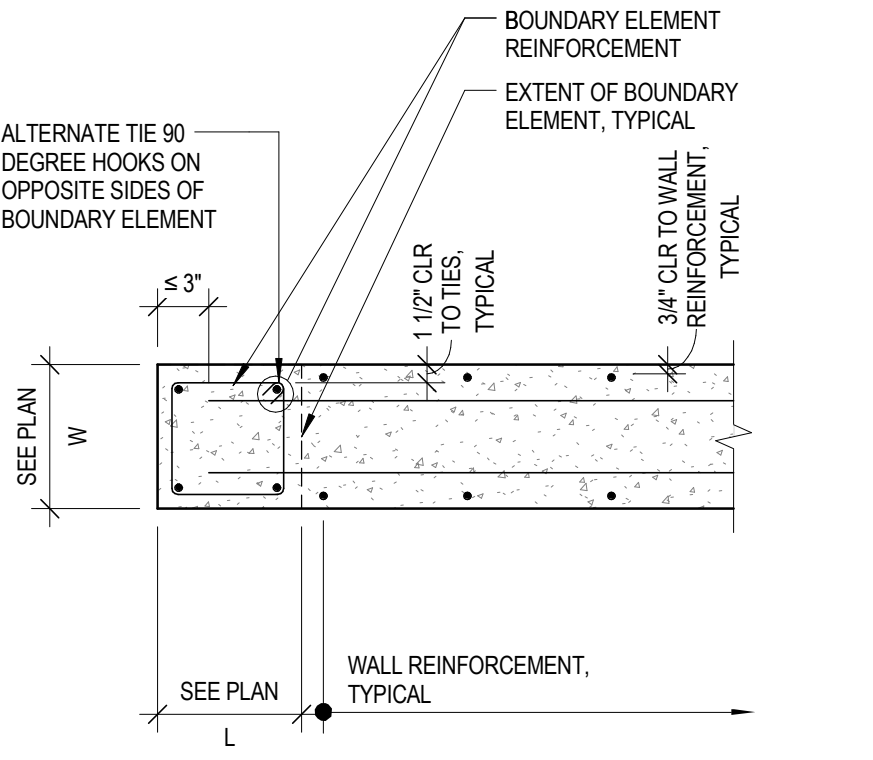
CONCRETE SHEAR WALL SCHEDULE																								
SHEAR WALL MARK	SW1						SW2						SW3, SW4						SW5					
LEVEL	REINFORCEMENT EACH FACE		BOUNDARY ELEMENT REINFORCEMENT				REINFORCEMENT EACH FACE		BOUNDARY ELEMENT REINFORCEMENT (NORTH OR EAST END)				REINFORCEMENT EACH FACE		BOUNDARY ELEMENT REINFORCEMENT (NORTH OR EAST END)				REINFORCEMENT EACH FACE		BOUNDARY ELEMENT REINFORCEMENT (NORTH OR EAST END)			
	VERTICAL BARS	HORIZONTAL BARS	TYPE	SIZE (WXL)	VERTICAL BARS	TIES	VERTICAL BARS	HORIZONTAL BARS	TYPE	SIZE (WXL)	VERTICAL BARS	TIES	VERTICAL BARS	HORIZONTAL BARS	TYPE	SIZE (WXL)	VERTICAL BARS	TIES	VERTICAL BARS	HORIZONTAL BARS	TYPE	SIZE (WXL)	VERTICAL BARS	TIES
TOW																								
917'-10" TOC ROOF	#4@8" OC	#4@12" OC	-	12"x12"	(4)#4	#4@12" OC	#4@12" OC	#4@12" OC	I	12"x12"	(4)#6	#4@12" OC	#4@12" OC	#4@12" OC	I	12"x12"	(4)#4	#4@12" OC	#4@10" OC	#4@10" OC	II	24"x24"	SEE COLUMN SCHEDULE	SEE COLUMN SCHEDULE
915'-10" TOC FIRST FLOOR	#4@8" OC	#4@12" OC	-	12"x12"	(4)#4	#4@12" OC	#4@12" OC	#4@12" OC	I	12"x12"	(4)#6	#4@12" OC	#4@12" OC	#4@12" OC	I	12"x12"	(4)#4	#4@12" OC	#4@10" OC	#4@10" OC	II	24"x24"	SEE COLUMN SCHEDULE	SEE COLUMN SCHEDULE
904'-6" TOC	#4@8" OC	#4@12" OC	-	12"x12"	(4)#4	#4@12" OC	#4@12" OC	#4@12" OC	I	12"x12"	(4)#6	#4@12" OC	#4@12" OC	#4@12" OC	I	12"x12"	(4)#4	#4@12" OC	#4@10" OC	#4@10" OC	II	24"x24"	SEE COLUMN SCHEDULE	SEE COLUMN SCHEDULE
902'-6"																								

- CONCRETE SHEAR WALL SCHEDULE NOTES:
- ALL VERTICAL BARS SHOULD BE LAPPED WITH A CLASS B TENSION LAP SPICE.
  - PROVIDE WALL DOWELS OF THE SAME SIZE AND LOCATIONS AS THE WALL REINFORCEMENT. SEE SHEAR WALL DOWELS DETAIL THIS SHEET.
  - SEE PLANS FOR TOP OF WALL ELEVATIONS.
  - SEE PLANS FOR WALL DIMENSIONS.
  - SEE THIS SHEET FOR SHEAR WALL REINFORCEMENT TYPES.
  - PROVIDE LENTON TAPERED BAR COUPLERS, OR APPROVED EQUAL FOR VERTICAL BARS AT THE TOP OF WALLS FOR FUTURE EXPANSION, SEE A3.B4.C6/S503.
  - REINFORCEMENT AROUND SHEAR WALL OPENING: (2)#6 BARS EACH SIDE OF OPENING. EXTEND ADDITIONAL REINFORCEMENT PAST OPENING BY 2'-0". ADD (1)#5 x 3'-0" LONG DIAGONAL AT EACH CORNER FOR EACH LAYER OF REINFORCEMENT.



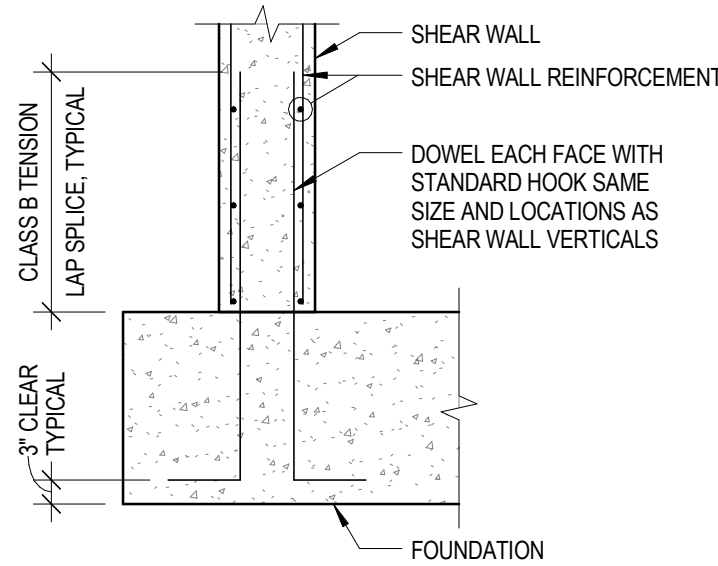
NOTES:  
1. LOCATE HOOKS ON BOUNDARY ELEMENT TIES AS SHOWN.

TYPICAL END OF WALL DETAIL TYPE II  
3/4" = 1'-0"

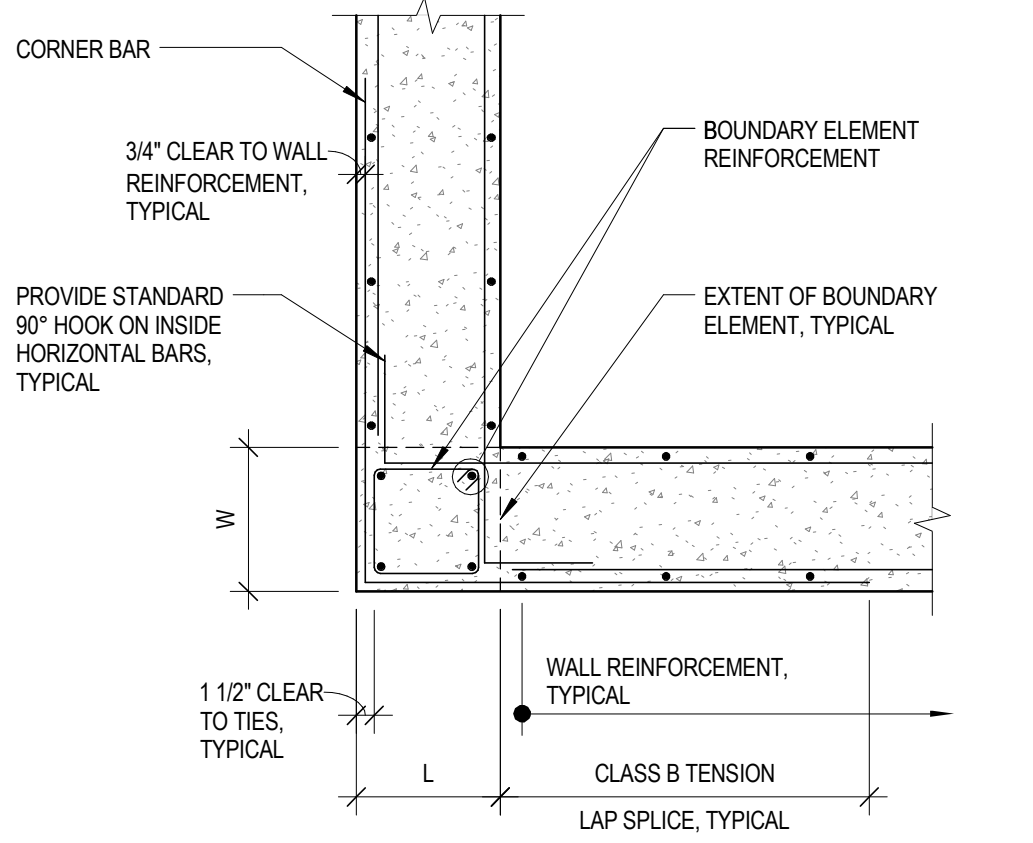


NOTES:  
1. LOCATE HOOKS ON BOUNDARY ELEMENT TIES AS SHOWN.

TYPICAL END OF WALL DETAIL TYPE I  
3/4" = 1'-0"



A5 SHEAR WALL DOWELS  
1/2" = 1'-0"



NOTES:  
1. LOCATE HOOKS ON BOUNDARY ELEMENT TIES AT INSIDE CORNER OF WALL INTERSECTION.

TYPICAL CORNER DETAIL TYPE I  
3/4" = 1'-0"

100% CONSTRUCTION DOCUMENTS

		CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title CONCRETE SHEAR WALL SCHEDULE	Phase 100% CONSTRUCTION DOCUMENTS	Project Title Construct Cancer Treatment Center	Project Number 607-395									
		GRāEF	nagel architects + engineers		U.S. Department of Veterans Affairs	Approved:	FULLY SPRINKLERED	Location WILLIAM S. MIDDLETON VA HOSPITAL, MADISON	Building Number BLDG 1 - F WING									
Revisions:		Date:		13100 watertown plank road suite 200 elm grove, wi 53122		Issue Date 05/17/2017		Checked BES		Drawn KRN		S606						
												Dwg. 26 of 127						