




**LEGEND**

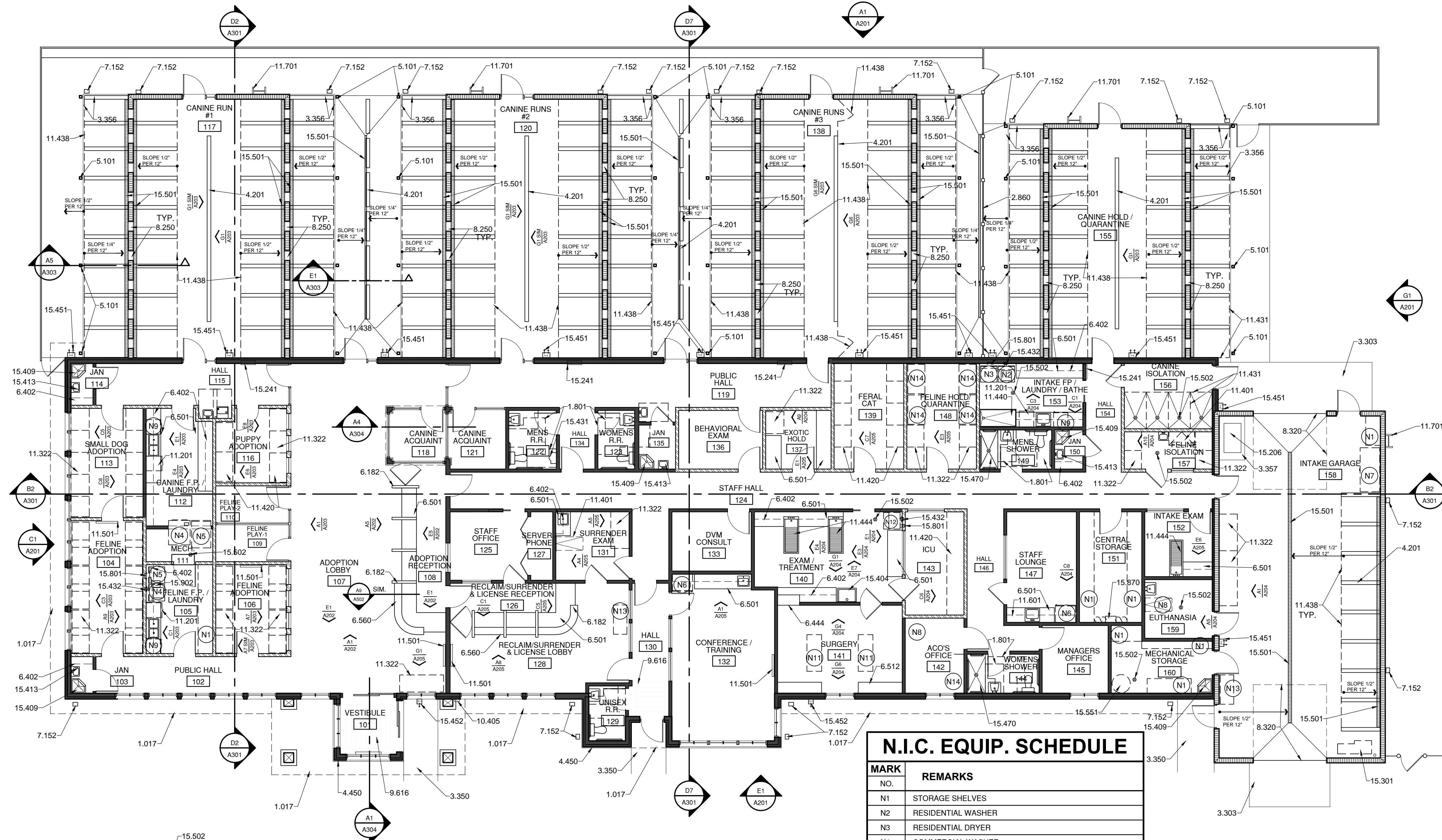
-  STUD PARTITION
-  CMU WALL, SEE STRUCTURAL
-  SOUND ISOLATION WALL (PARTITION EXTENDED TO BOTTOM OF TRUSS)

**GENERAL NOTES**

- A. ALL CASEWORK TO HAVE PLASTIC LAMINATE FINISH, U.N.O.
- B. ALL EXPOSED COUNTERTOP CORNERS TO HAVE 2" RADIUS.
- C. ALL EXPOSED COUNTERTOPS TO BE FACED WITH PVC EDGEBANDING.
- D. ALL RUN AND CAGE BANK DIMENSIONS TO BE VERIFIED BEFORE INSTALLATION.
- E. GROMMET LOCATIONS IN COUNTERTOPS TO BE VERIFIED WITH OWNER.
- F. PROVIDE BLOCKING IN WALL FOR ALL WALL MOUNTED EQUIPMENT.
- G. ALL EXPOSED OUTSIDE CORNERS OF INTERIOR WALLS SHALL HAVE CORNER GUARDS.
- H. AT ALL VERTICAL TILE APPLICATIONS, INSTALL 'SCHLUTER' STRIPS ON OUTSIDE CORNERS.

**REFERENCE KEYNOTES**

- DIVISION 01 - GENERAL REQUIREMENTS
  - 1.017 - LINE OF ROOF OVERHANG ABOVE
  - 1.801 - ADA TURNING CLEARANCE
- DIVISION 02 - SITE CONSTRUCTION
  - 2.860 - 6" HIGH VINYL FENCE
- DIVISION 03 - CONCRETE
  - 3.303 - CONCRETE STOOP
  - 3.350 - CONCRETE SIDEWALK
  - 3.356 - CONCRETE CURB
  - 3.357 - CONCRETE PAD
- DIVISION 04 - MASONRY
  - 4.201 - CONCRETE MASONRY UNIT, SEE STRUCTURAL
  - 4.450 - MANUFACTURED STONE VENEER
- DIVISION 05 - METALS
  - 5.101 - STEEL COLUMN - SEE STRUCTURAL
- DIVISION 06 - WOOD AND PLASTICS
  - 6.182 - PARTIAL HEIGHT INTERIOR PARTITION WALL
  - 6.402 - PLASTIC LAMINATE WALL CABINET
  - 6.444 - PLASTIC LAMINATE PASS-THRU CABINET
  - 6.501 - PLASTIC LAMINATE COUNTERTOP
  - 6.512 - 18" DEEP PLASTIC LAMINATE COUNTERTOP
  - 6.560 - SOLID SURFACE COUNTERTOP
- DIVISION 07 - THERMAL AND MOISTURE PROTECTION
  - 7.152 - DOWNSPOUT
- DIVISION 08 - OPENINGS
  - 8.250 - GUILLOTINE DOOR: O.F.C.I.
  - 8.320 - OVERHEAD DOOR: AUTOMATIC
- DIVISION 09 - FINISHES
  - 9.616 - WALK-OFF MAT: SEE DETAIL, F1 / A502
- DIVISION 10 - SPECIALTIES
  - 10.405 - KNOX BOX
- DIVISION 11 - EQUIPMENT
  - 11.201 - DISHWASHER - O.F.C.I.
  - 11.322 - ROLLING CAGE BANK: O.F.C.I.
  - 11.401 - SST. FOLDING EXAM TABLE - O.F.C.I.
  - 11.420 - CAGE BANK - O.F.C.I.
  - 11.431 - SST. RUN GATE AND PARTITIONS - O.F.C.I.
  - 11.438 - SST. RUN GATE - O.F.C.I.
  - 11.440 - SST. BATHING TUB - O.F.C.I.
  - 11.444 - 5' SST. SHALLOW TUB TABLE - O.F.C.I.
  - 11.501 - T.V. MOUNT FOR O.F.C.I. T.V.
  - 11.601 - ADA HEIGHT DISHWASHER O.F.C.I.
  - 11.701 - ROOF LADDER



**N.I.C. EQUIP. SCHEDULE**

MARK	REMARKS
N1	STORAGE SHELVES
N2	RESIDENTIAL WASHER
N3	RESIDENTIAL DRYER
N4	COMMERCIAL WASHER
N5	COMMERCIAL DRYER
N6	FULL SIZE FRIDGE
N7	CHEST FREEZER
N8	EXISTING SURGERY TABLE
N9	UNDERCOUNTER FRIDGE
N10	ROLLING GURNEY
N11	SURGERY TABLE
N12	STACKING WASHER / DRYER
N13	SCALE
N14	EXISTING ROLLING CAGE BANK

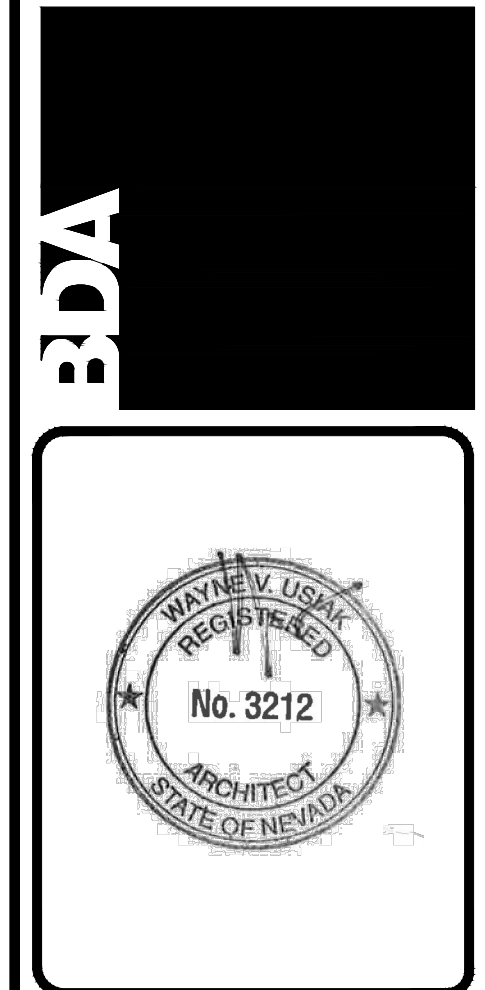
**A1 ARCHITECTURAL FLOOR PLAN**  
 1/8"=1'-0"  
 BUILDING AREA = 7,411 SF  
 KENNEL PODS = 3,016 SF  
 INTAKE GARAGE = 1,120 SF  
 TOTAL 11,457 SF



Save Date: February 27, 2015, 3:37 PM - jdmk  
 Drawing Name: G:\Archives\2011\1107-Carson City Animal Shelter\1107-A101 Architectural Floor Plan.dwg

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**ARCHITECTURAL FLOOR PLAN**

REVISION:	DATE	COMMENTS

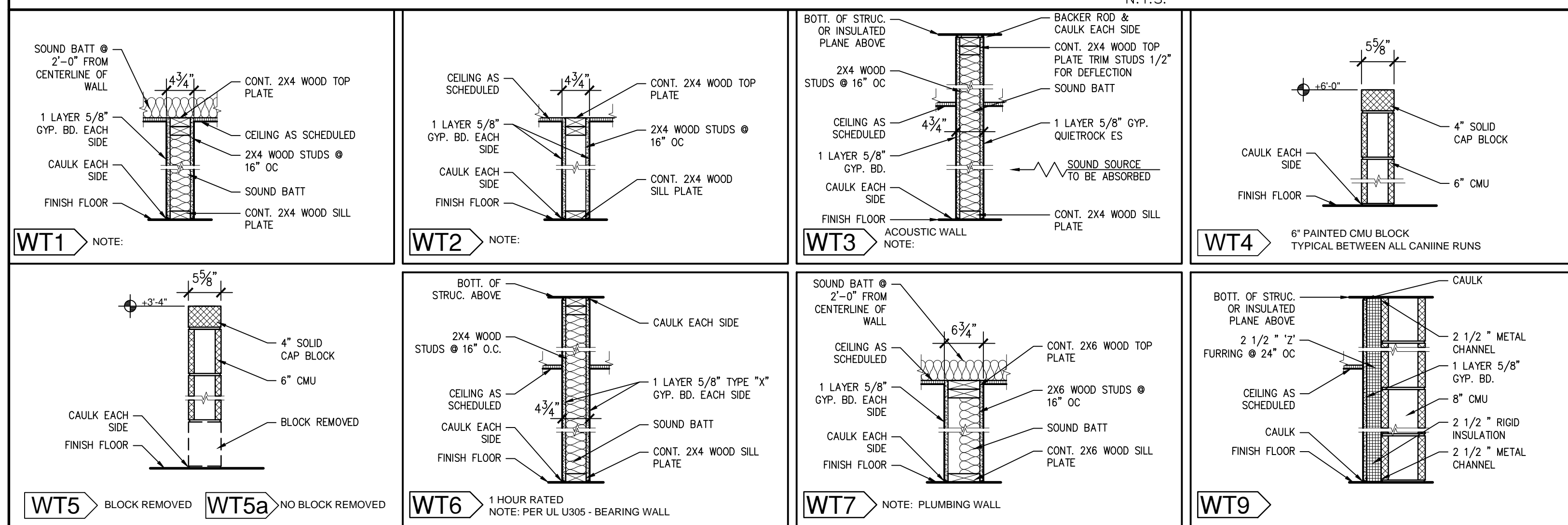
**REVIEWS**

INITIALS	DATE	REVISION

CCAS  
 PROJECT NO.: 1107  
 DRAWN: DGJK  
 DATE: 2/27/2015  
**A101**  
 OF

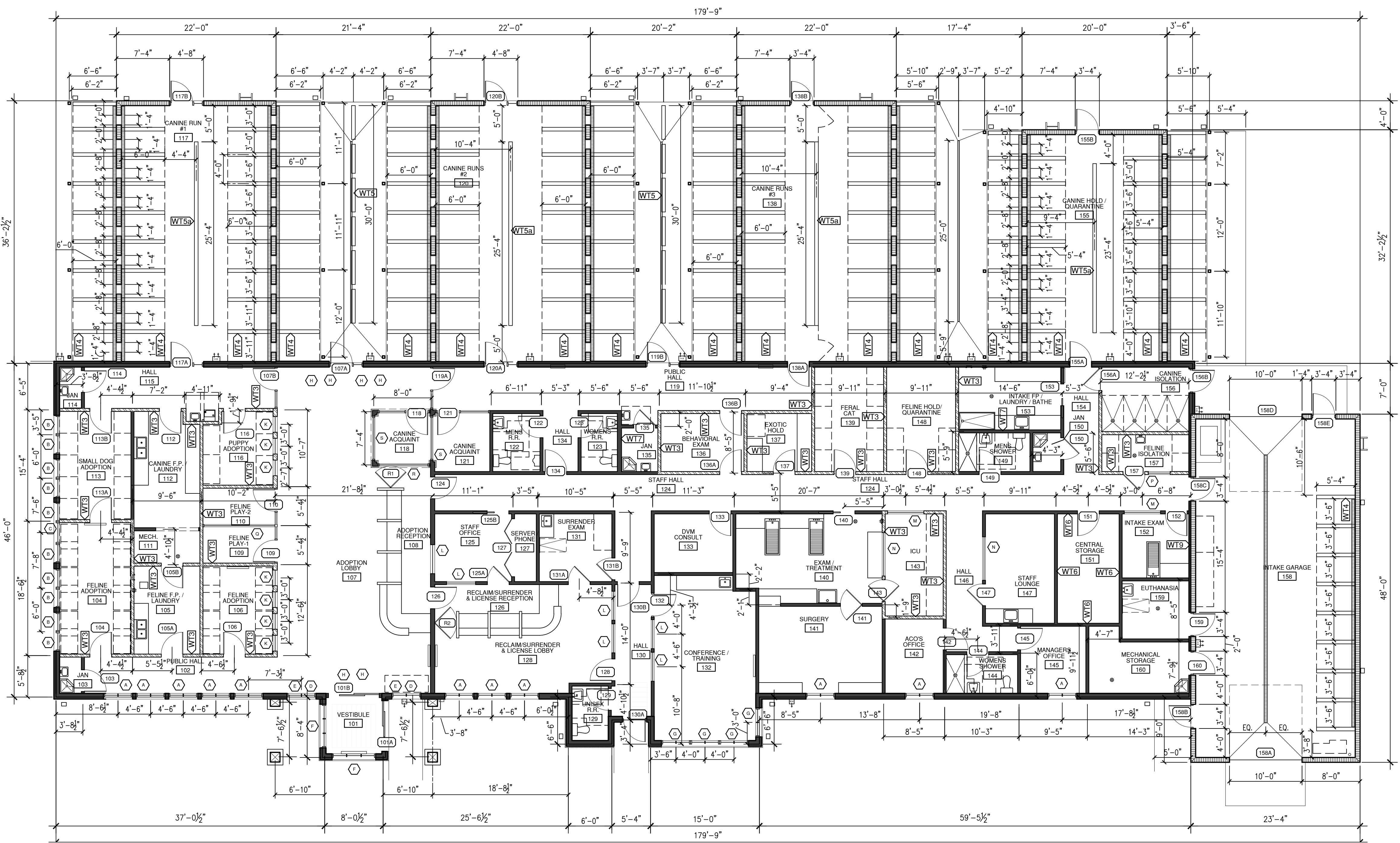
# WALL TYPES

NOTE: FOR WET AREAS USE 5/8" DENSARMOR PLUS (WATERPROOF GYP. BD.) IN LIEU OF STANDARD GYP. BD. N.T.S.

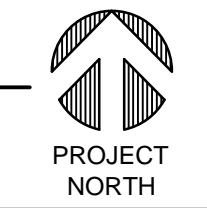


# GENERAL NOTES

- A. ALL INTERIOR WALLS TO BE WALL TYPE WT1, U.N.O.
- B. ALL CASEWORK TO HAVE PLASTIC LAMINATE FINISH, U.N.O.
- C. ALL EXPOSED COUNTERTOP CORNERS TO HAVE 2" RADIUS.
- D. ALL EXPOSED COUNTERTOPS TO BE FACED WITH PVC EDGEBANDING.
- E. ALL RUN AND GAGE BANK DIMENSIONS TO BE VERIFIED BEFORE INSTALLATION.
- F. GROMMET LOCATIONS IN COUNTERTOPS TO BE VERIFIED WITH OWNER.
- G. PROVIDE BLOCKING IN WALL FOR ALL WALL MOUNTED EQUIPMENT.
- H. ALL EXPOSED OUTSIDE CORNERS OF INTERIOR WALLS SHALL HAVE CORNER GUARDS.
- I. AT ALL VERTICAL TILE APPLICATIONS, INSTALL 'SCHLUTER' STRIPS ON OUTSIDE CORNERS.
- J. WINDOW TYPES ARE INDICATED WITH SYMBOLS ON SHEET A102 AND SHEET A201. NOT ALL WINDOWS ARE SEEN IN PLAN.



**A1 DIMENSION PLAN**  
1/8"=1'-0"



Save Date: February 27, 2015, 3:39 PM - jmk  
Drawing Name: G:\Archives\2011\1107-Carson City Animal Shelter\1107-A102-Dimension Plan.dwg

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**DIMENSION PLAN**

REV.#	DATE	COMMENTS

**REVIEWS**

INITIALS	REVISION
	BDA DSGN. REV.
	BDA TECH REV.

CCAS  
PROJECT NO.: 1107  
DRAWN: JK  
DATE: 2/27/2015

**A102**  
OF



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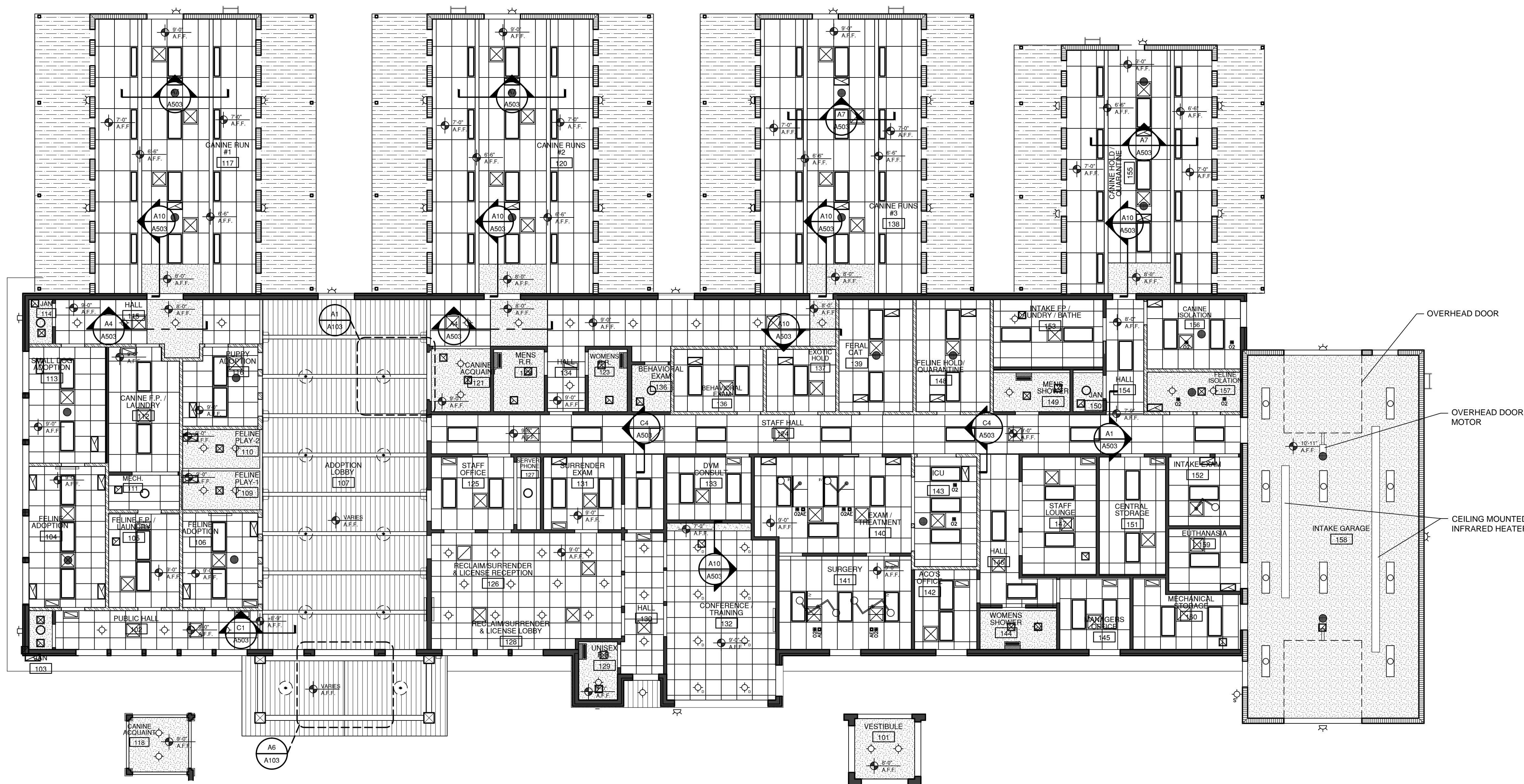
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### GENERAL NOTES

- A. ALL CEILING HEIGHTS 8'-0" A.F.F. U.N.O.
- B. VERIFY LOCATION AND QUANTITY OF CEILING MOUNTED I.V. TRACK SYSTEMS WITH OWNER.
- C. ALL ACOUSTIC WALLS TO EXTEND TO STRUCTURE ABOVE AND TO BE SEALED AROUND PERIMETER.
- D. ALL LIGHTS TO BE MOUNTED FLUSH WITH CEILING U.N.O.
- E. ALL EMERGENCY AND EXIT LIGHTS ARE SHOWN ON ELECTRICAL LIGHTING PLANS.

### LEGEND

- ACOUSTICAL TILE CEILING SYSTEM TYPE No.1  
24" X 24", ARMSTRONG, CIRRUS #584 (AT-1)
- ACOUSTICAL TILE CEILING SYSTEM TYPE No.2  
24" X 48", ARMSTRONG, ULTIMA #1913 (AT-2)
- PAINTED GYPSUM BOARD CEILING.
- TECTUM CEILING PANELS
- TONGUE & GROOVE CEILING
- 2x4' RECESSED LED LIGHT FIXTURE
- 1'x2' INDIRECT LED LIGHT FIXTURE
- 1' X 4' LED LIGHT FIXTURE  
SURFACE MOUNTED
- SURFACE MOUNTED LED FIXTURE
- RECESSED MOUNTED LED FIXTURE  
D - DIMMER
- LARGE PENDANT FIXTURE
- GLOBE LIGHT
- WALL PACK
- SCONCE LIGHT
- EXTERIOR WALL SCONCE LIGHT
- IV CEILING MOUNTED I.V. TRACK SYSTEM WITH  
HOOKS BY INPRO CORP. 1-(800) 437-2698
- CEILING MOUNTED SURGERY LIGHT O.F.C.I. (VERIFY  
WITH OWNER EXACT TYPE, PROVIDE J-BOX IN  
CEILING), MOUNT TO SECURE STRUCTURE PER  
MANUFACTURERS RECOMMENDATION - SEE DTL.
- CEILING MOUNTED EXAM LIGHT O.F.C.I. (VERIFY  
WITH OWNER EXACT TYPE, PROVIDE J-BOX IN  
CEILING), MOUNT TO SECURE STRUCTURE PER  
MANUFACTURERS RECOMMENDATION - SEE  
DTL.
- AE ANESTHESIA OUTLET
- O2 OXYGEN OUTLET
- EXHAUST FAN ON SPRING WOUND TIMER  
(15MIN. MAX) (12 AIR CHANGE/HOUR)
- 2 SPEED EXHAUST FAN (LOW SPEED  
CONNECTED TO HVAC FAN UNIT, HIGH  
SPEED OVERRIDE BY SPRING WOUND  
TIMER ON WALL (6 ACH, 12 ACH)
- EXHAUST FAN INTERCONNECTED TO ROOM  
LIGHT (6 ACH)
- EXHAUST FAN ON SWITCH (12 ACH)
- RECESSED CEILING MOUNTED AUDIO  
SPEAKERS



**A1 PARTIAL R.C.P.**  
1/8" = 1'-0"

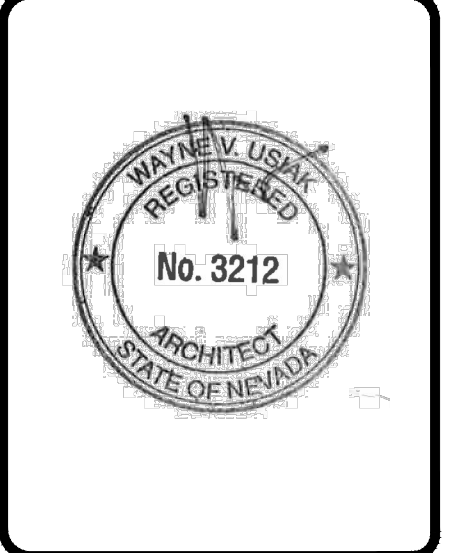
**A2 REFLECTED CEILING PLAN**  
1/8" = 1'-0"



**A6 PARTIAL R.C.P.**  
1/8" = 1'-0"

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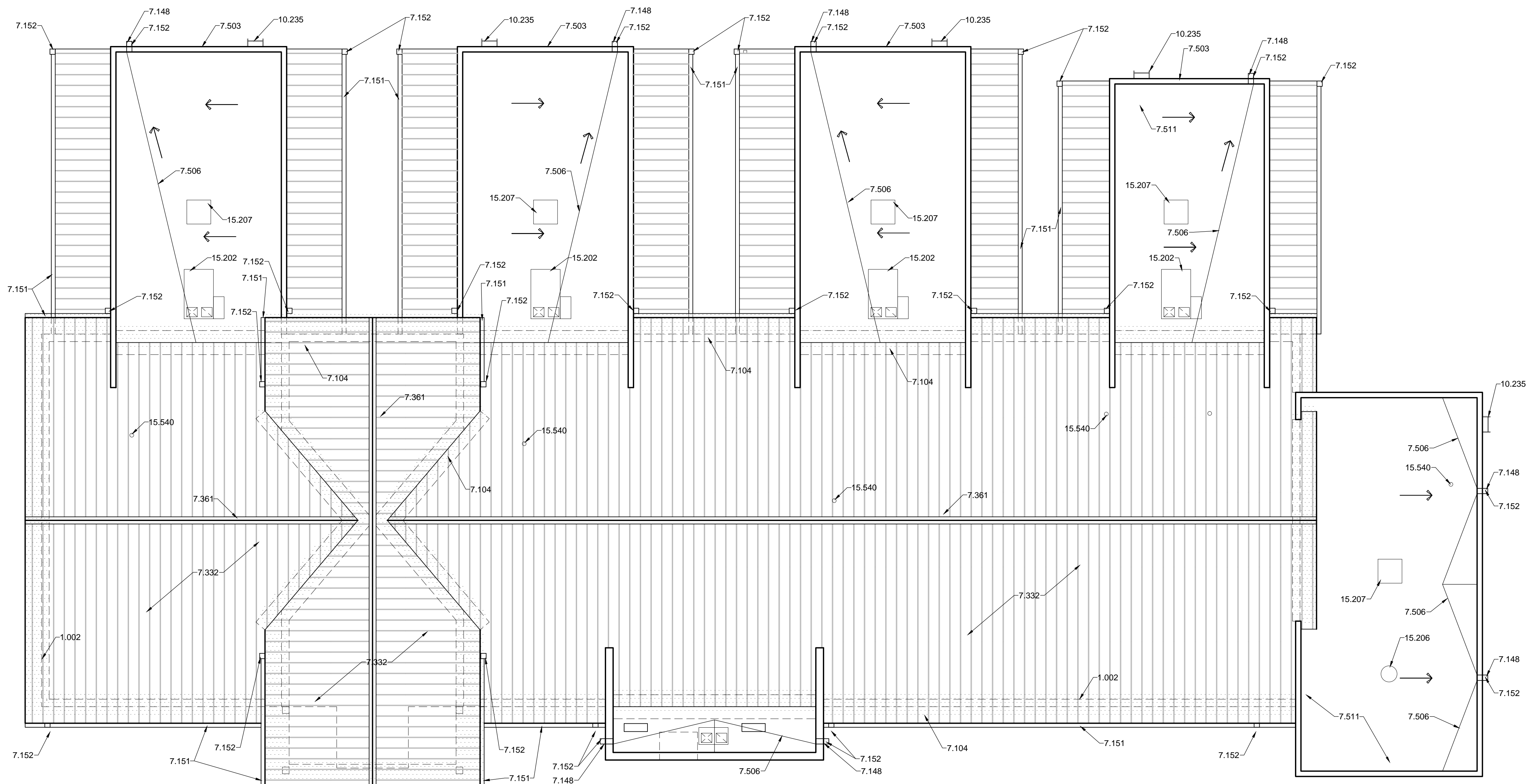
REFLECTED CEILING PLAN		
REV.#	DATE	COMMENTS

REVIEWS	
INITIALS	REV.
	BDA DSGN. REV.
	BDA TECH REV.

CCAS  
 PROJECT NO.: 1107  
 DRAWN: JW/DG  
 DATE: 2/27/2015

**A103**  
 OF

Save Date: February 27, 2015, 3:30 PM - JohnK  
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**A1 ROOF PLAN**  
 1/8"=1'-0"

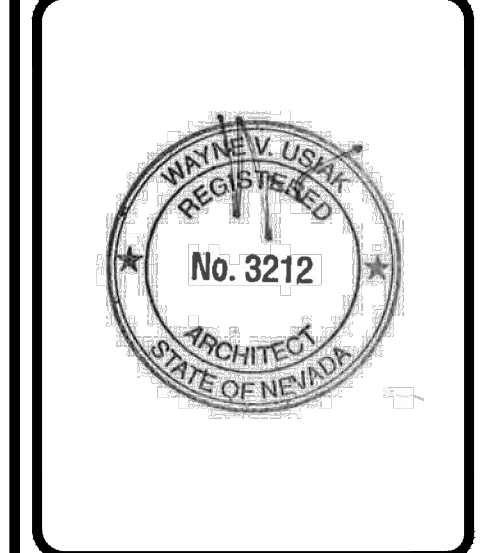
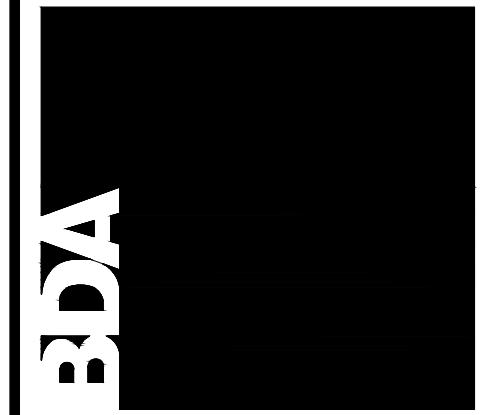


**REFERENCE KEYNOTES**

- DIVISION 01 - GENERAL REQUIREMENTS  
 1.002 - LINE OF ADJACENT WALL
- DIVISION 07 - THERMAL AND MOISTURE PROTECTION  
 7.104 - ICE AND WATER SHIELD  
 7.148 - SCUPPER  
 7.151 - ROOF GUTTER  
 7.152 - DOWNSPOUT  
 7.332 - METAL ROOF PANEL  
 7.361 - RIDGE VENT  
 7.503 - PARAPET CAP  
 7.506 - CRICKET  
 7.511 - EPDM ROOFING: FELT BACKING
- DIVISION 10 - SPECIALTIES  
 10.235 - FIXED LADDER FOR ROOF ACCESS
- DIVISION 15 - MECHANICAL  
 15.202 - ROOF TOP UNIT - SEE MECHANICAL  
 15.207 - EVAPORATIVE COOLER - SEE MECHANICAL

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**ROOF PLAN**

REV.#	DATE	COMMENTS

REVIEWS	
INITIALS	
-	BDA DSGN. REV.
-	BDA TECH REV.

CCAS  
 PROJECT NO.: 1107  
 DRAWN: MLLJK  
 DATE: 2/27/2015

**A104**  
 OF

Save Date: February 27, 2015 - 10:14 AM - Nu  
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**GENERAL NOTES**

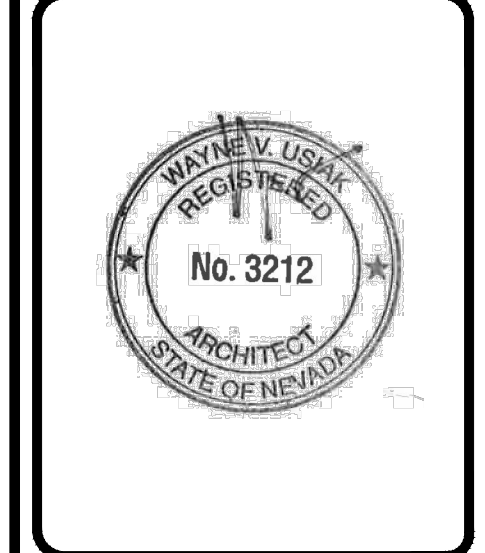
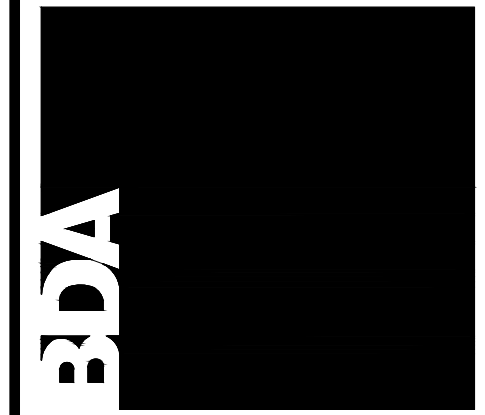
- A. ALL EXPOSED WOOD TRIM TO BE STAINED WS1 (BRIGHT CHERRY SW3109-P)
- EXTERIOR FINISHES**
- PAINT: P7 - EPOXY PAINT, KILIM BEIGE SW6106
- WALLCOVERING: W1 - STONE VENEER, MADISON COUNTY
- GENERAL: G2 - METAL ROOFING, CHESTNUT  
 G3 - FIBER CEMENT SIDING, MONTEREY TAUPE  
 G4 - SPLIT FACE CMU SCORED HALFWAY  
 G5 - SMOOTH FACE CMU BLOCK

**REFERENCE KEYNOTES**

- DIVISION 04 - MASONRY  
 4.205 - SPLIT FACE CMU SCORED HALFWAY AT 8"  
 4.208 - SMOOTH FACE CONCRETE MASONRY UNIT  
 4.450 - MANUFACTURED STONE VENEER
- DIVISION 05 - METALS  
 5.570 - VERTICAL LADDER WITH WALK THROUGH
- DIVISION 06 - WOOD AND PLASTICS  
 6.202 - ARCHITECTURAL TRIM  
 6.261 - EXPOSED WOOD POST  
 6.266 - EXPOSED WOOD TRUSS
- DIVISION 07 - THERMAL AND MOISTURE PROTECTION  
 7.151 - ROOF GUTTER  
 7.152 - DOWNSPOUT  
 7.331 - METAL ROOF PANEL SYSTEM  
 7.421 - HARDI BOARD SIDING
- DIVISION 10 - SPECIALTIES  
 10.122 - 8" STAINLESS STEEL LETTERS ON STANDOFFS
- DIVISION 15 - MECHANICAL  
 15.817 - EXHAUST VENT
- DIVISION 16 - ELECTRICAL  
 16.503 - PENDANT LIGHT FIXTURE  
 16.511 - LIGHT FIXTURE  
 16.522 - WALL MOUNTED DOWN-LIGHT FIXTURE  
 16.526 - WALL SCONCE LIGHT FIXTURE

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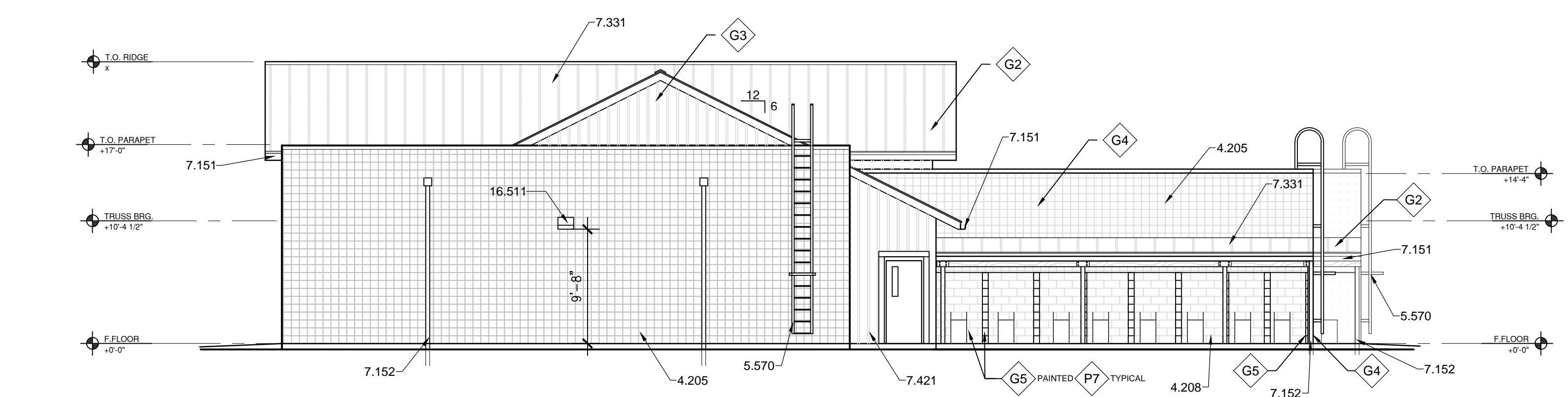
**EXTERIOR ELEVATIONS**

REVISION:	DATE	COMMENTS

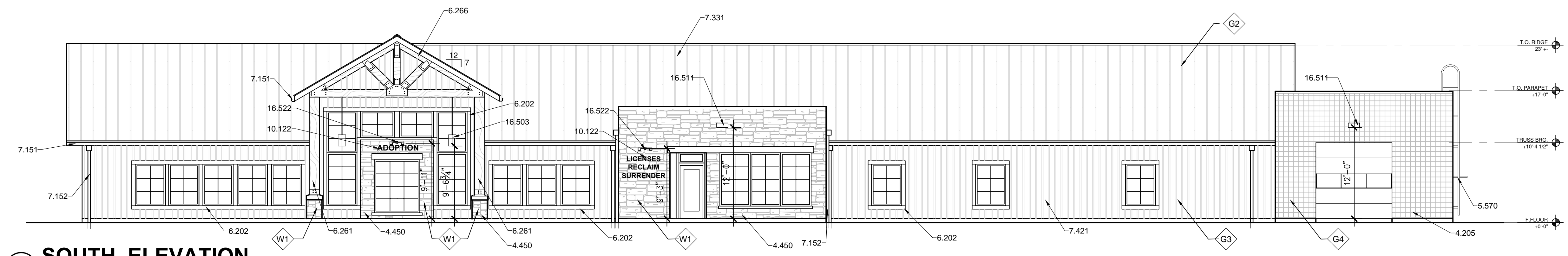
INITIALS	REVIEWS
	BDA DSGN. REV.
	BDA TECH REV.

CCAS  
 PROJECT NO.: 1107  
 DRAWN: DG/JW  
 DATE: 2/27/2015

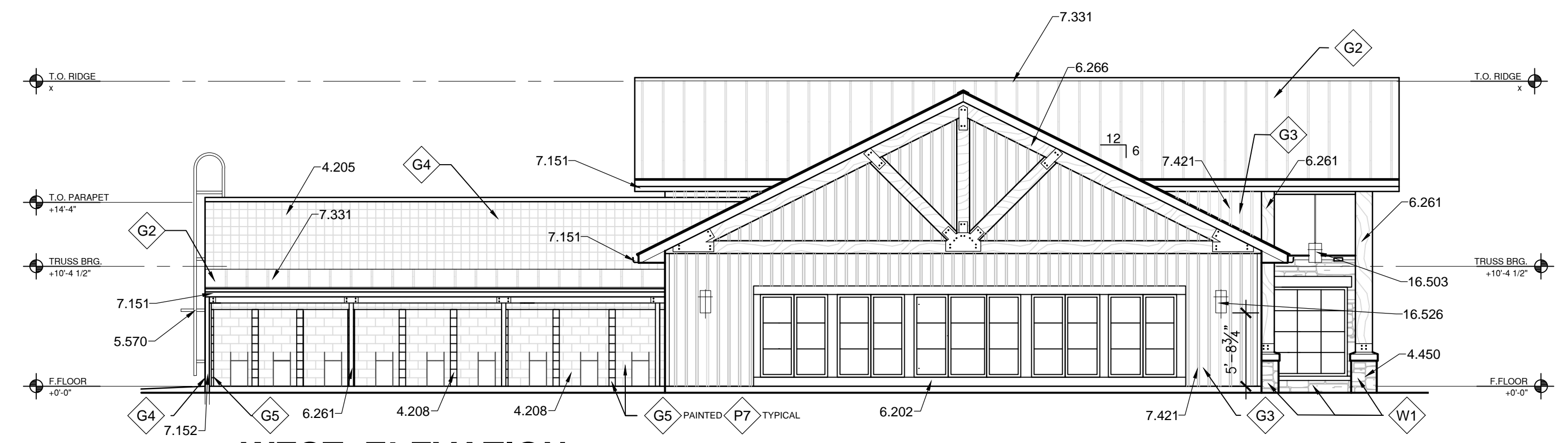
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 OF



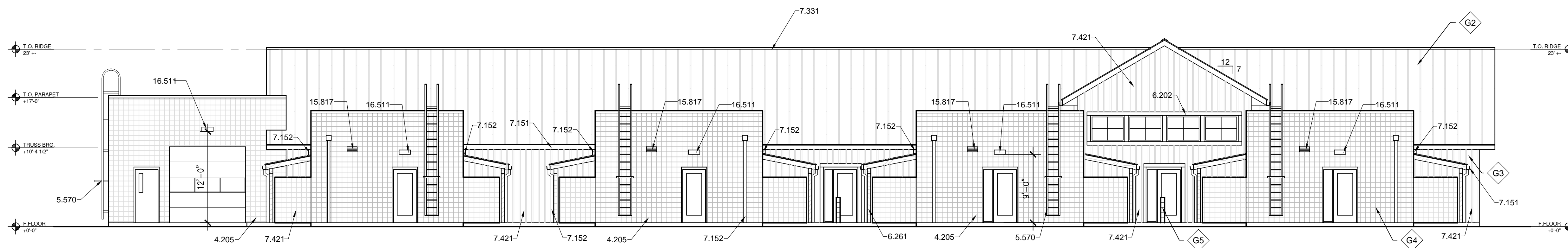
**G1 EAST ELEVATION**  
 1/8" = 1'-0"



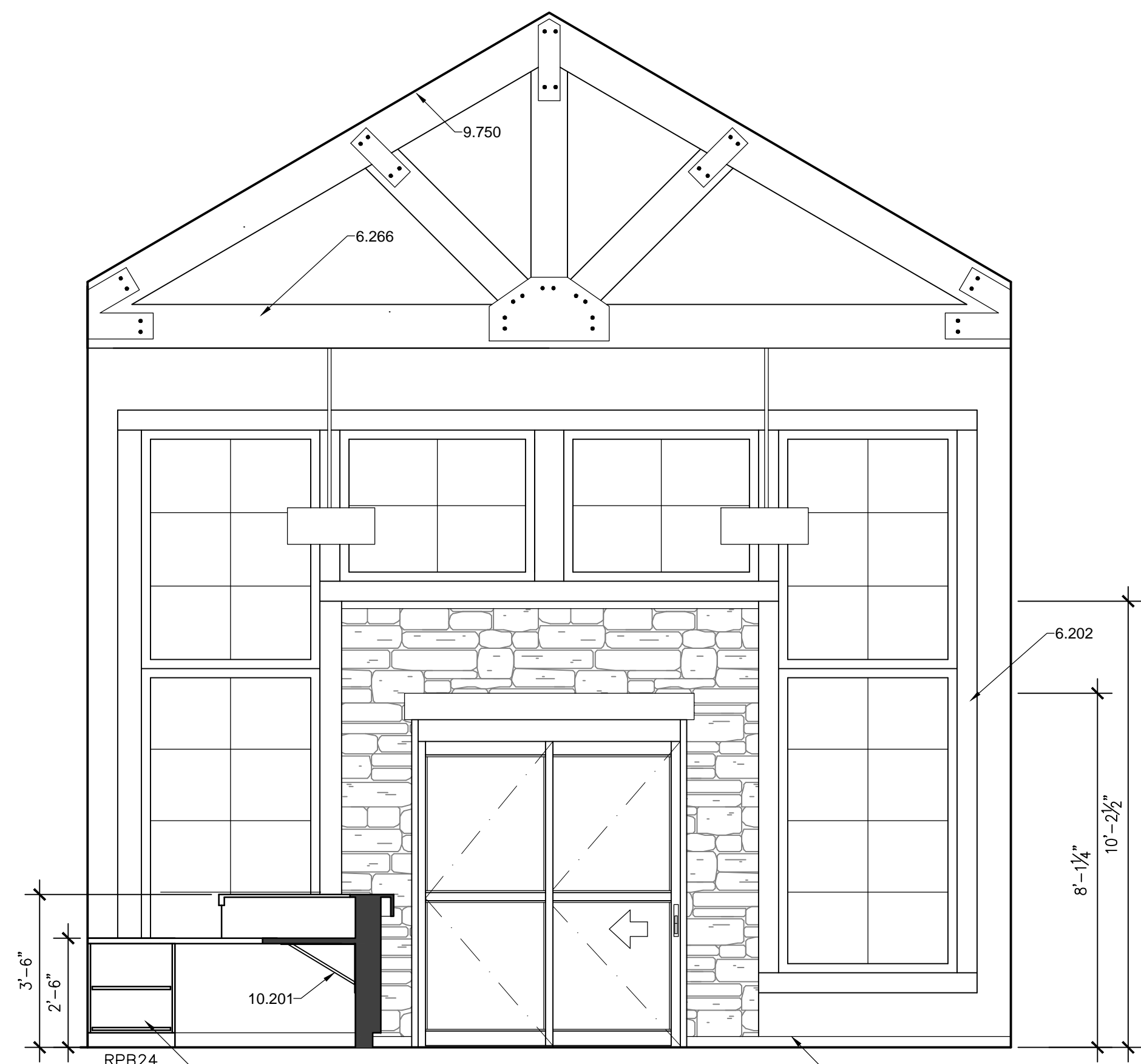
**E1 SOUTH ELEVATION**  
 1/8" = 1'-0"



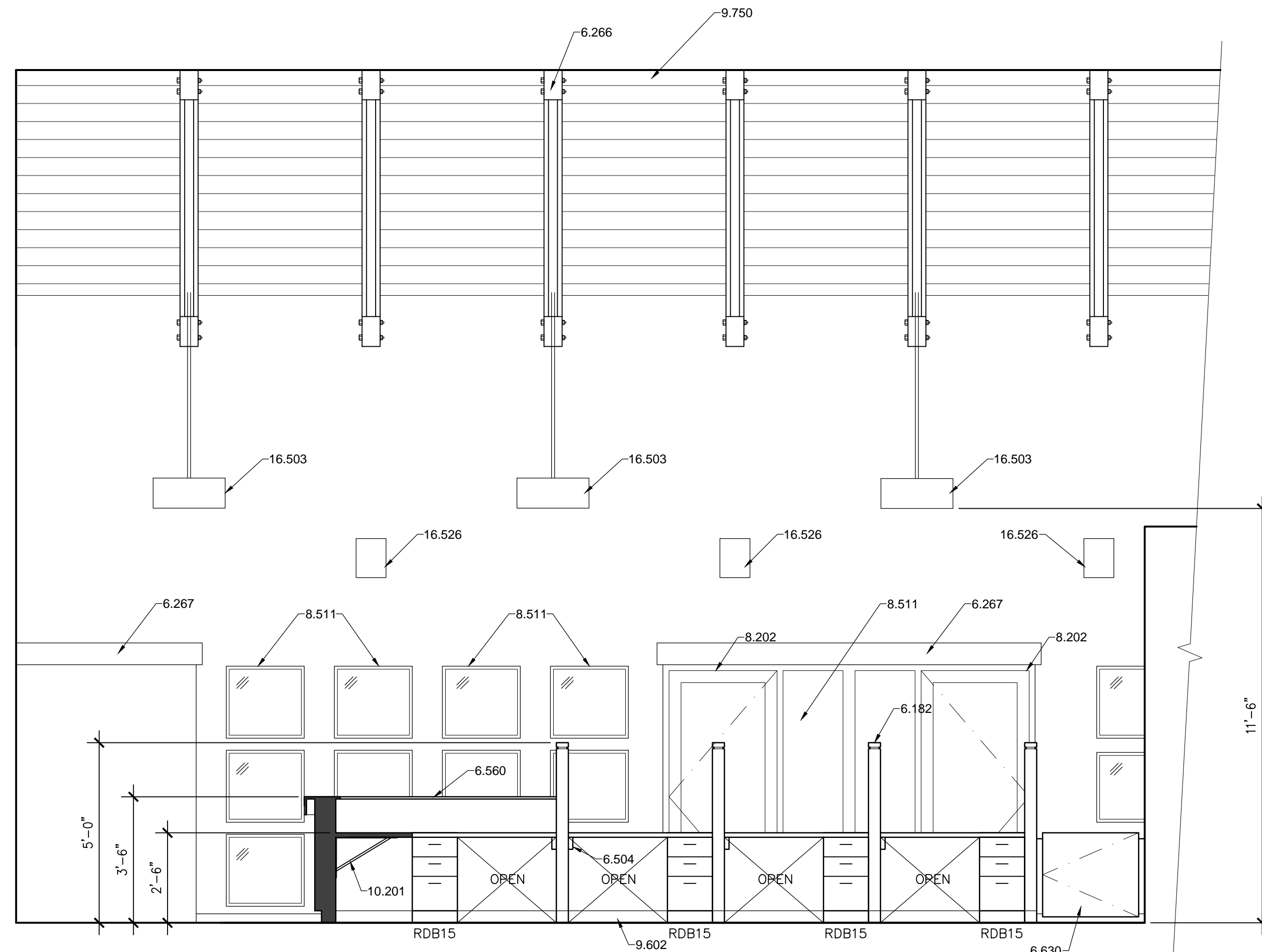
**C1 WEST ELEVATION**  
 1/8" = 1'-0"



**A1 NORTH ELEVATION**  
 1/8" = 1'-0"



**E1 ADOPTION LOBBY/RECEPTION #107**  
 3/8" = 1'-0"



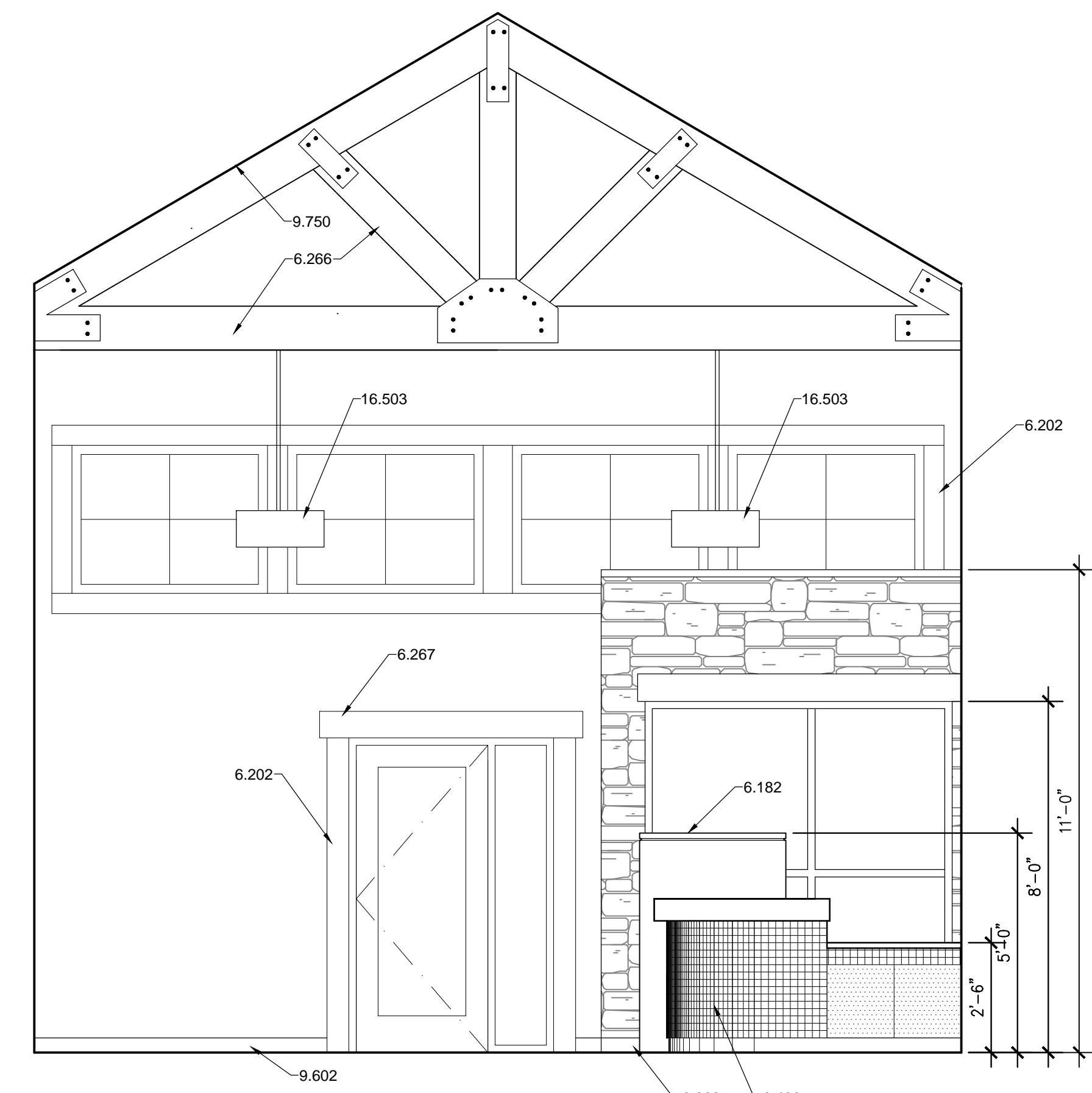
**E5 ADOPTION LOBBY/RECEPTION #107**  
 3/8" = 1'-0"

**GENERAL NOTES**

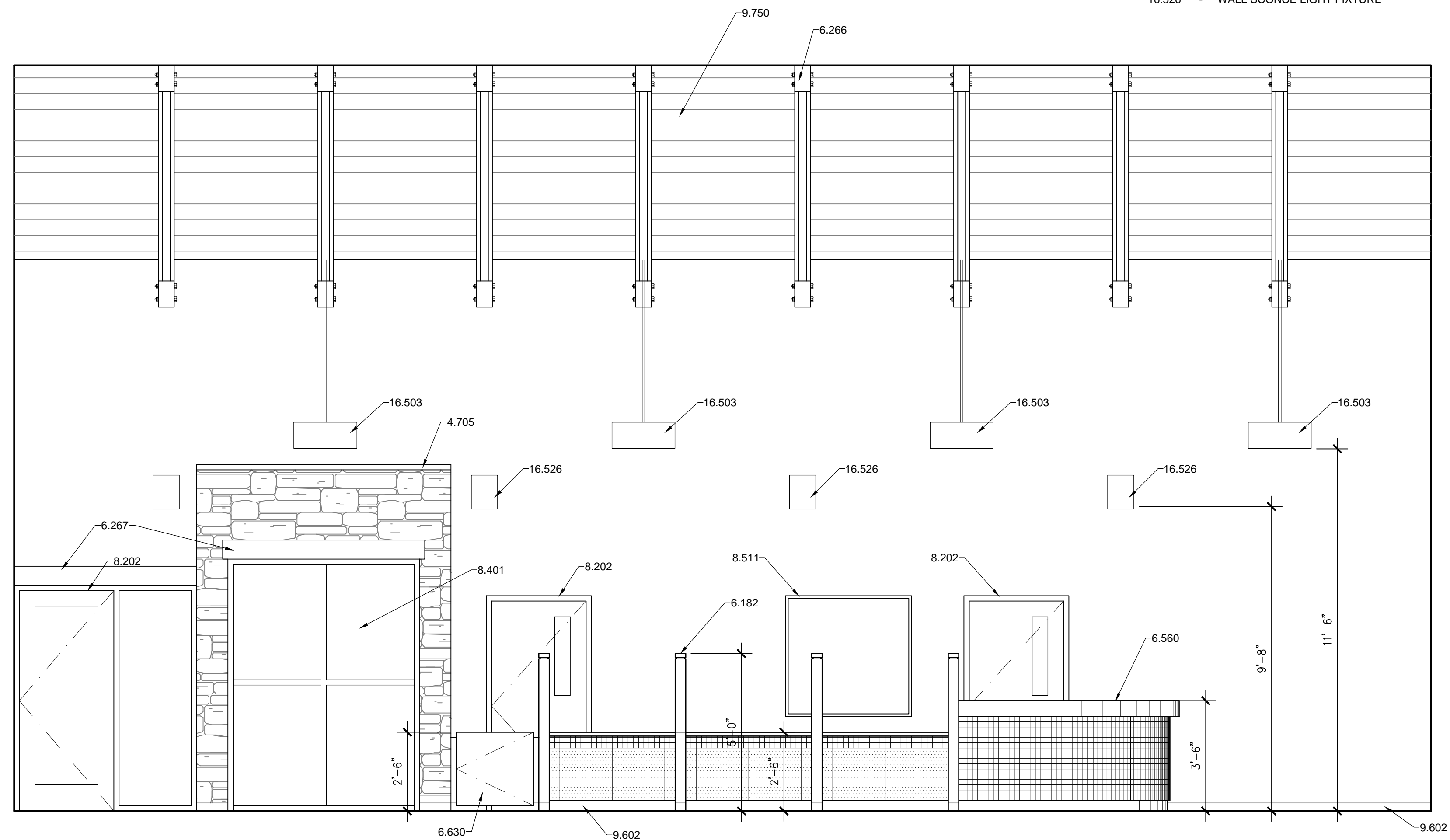
- A. ALL CASEWORK TO HAVE PLASTIC LAMINATE FINISH, U.N.O.
- B. ALL EXPOSED COUNTERTOP CORNERS TO HAVE 2" RADIUS.
- C. ALL EXPOSED COUNTERTOPS TO BE FACED WITH PVC EDGEBANDING.
- D. ALL RUN AND GAGE BANK DIMENSIONS TO BE VERIFIED BEFORE INSTALLATION.
- E. GROMMET LOCATIONS IN COUNTERTOPS TO BE VERIFIED WITH OWNER.
- F. PROVIDE BLOCKING IN WALL FOR ALL WALL MOUNTED EQUIPMENT.
- G. ALL EXPOSED OUTSIDE CORNERS OF INTERIOR WALLS SHALL HAVE CORNER GUARDS.
- H. AT ALL VERTICAL TILE APPLICATIONS, INSTALL 'SCHLUTER' STRIPS ON OUTSIDE CORNERS.
- I. SEE I-SHEETS FOR FINISHES.

**REFERENCE KEYNOTES**

- DIVISION 06 - WOOD AND PLASTICS**
- 6.182 - PARTIAL HEIGHT INTERIOR PARTITION WALL
  - 6.202 - ARCHITECTURAL TRIM
  - 6.266 - EXPOSED WOOD TRUSS
  - 6.267 - DECORATIVE WOOD HEADER
  - 6.424 - PLASTIC LAMINATE PRINTER CABINET
  - 6.490 - PLASTIC LAMINATE FACE
  - 6.504 - PLASTIC LAMINATE COUNTERTOP SUPPORT
  - 6.560 - SOLID SURFACE COUNTERTOP
  - 6.630 - PLASTIC LAMINATE GATE
- DIVISION 08 - OPENINGS**
- 8.202 - DOOR AND FRAME AS SCHEDULED
  - 8.511 - INTERIOR WINDOW
- DIVISION 09 - FINISHES**
- 9.513 - CERAMIC TILE FACE
  - 9.602 - BASE AS SCHEDULED
  - 9.750 - TONGUE AND GROVE WOOD CEILING
- DIVISION 10 - SPECIALTIES**
- 10.201 - KV BRACKET
- DIVISION 16 - ELECTRICAL**
- 16.503 - PENDANT LIGHT FIXTURE
  - 16.526 - WALL SCONCE LIGHT FIXTURE



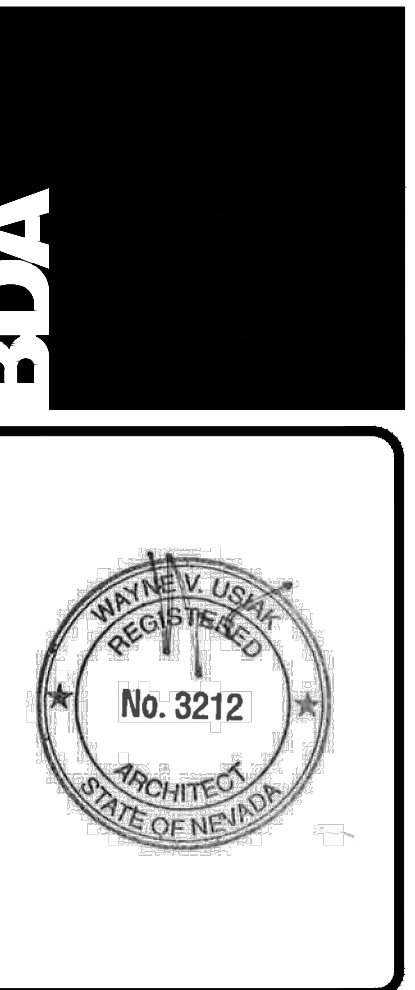
**A1 ADOPTION LOBBY #107**  
 3/8" = 1'-0"



**A5 ADOPTION LOBBY #107**  
 3/8" = 1'-0"

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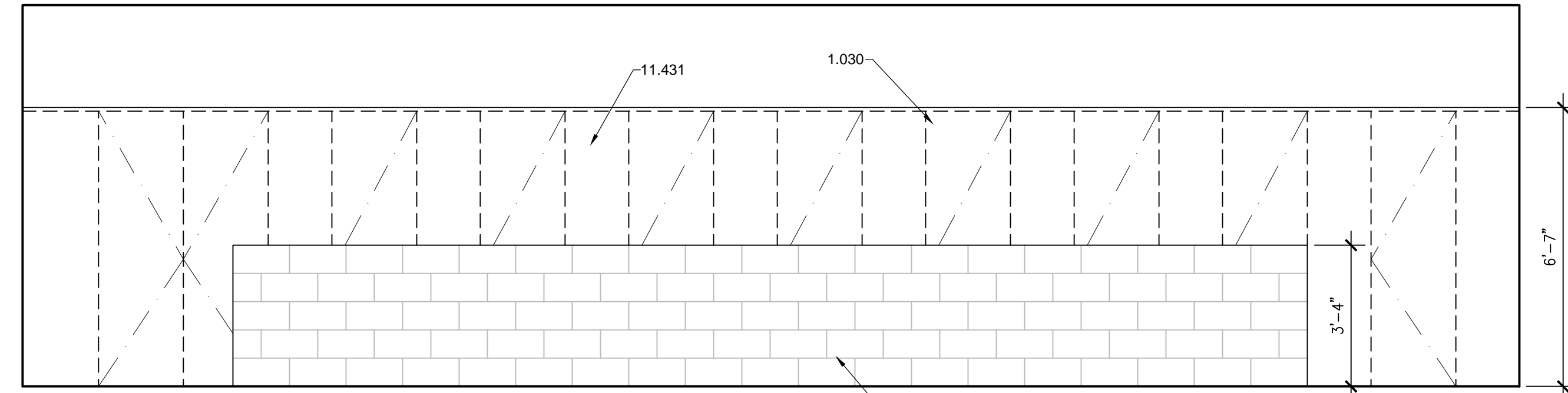
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**INTERIOR ELEVATIONS**

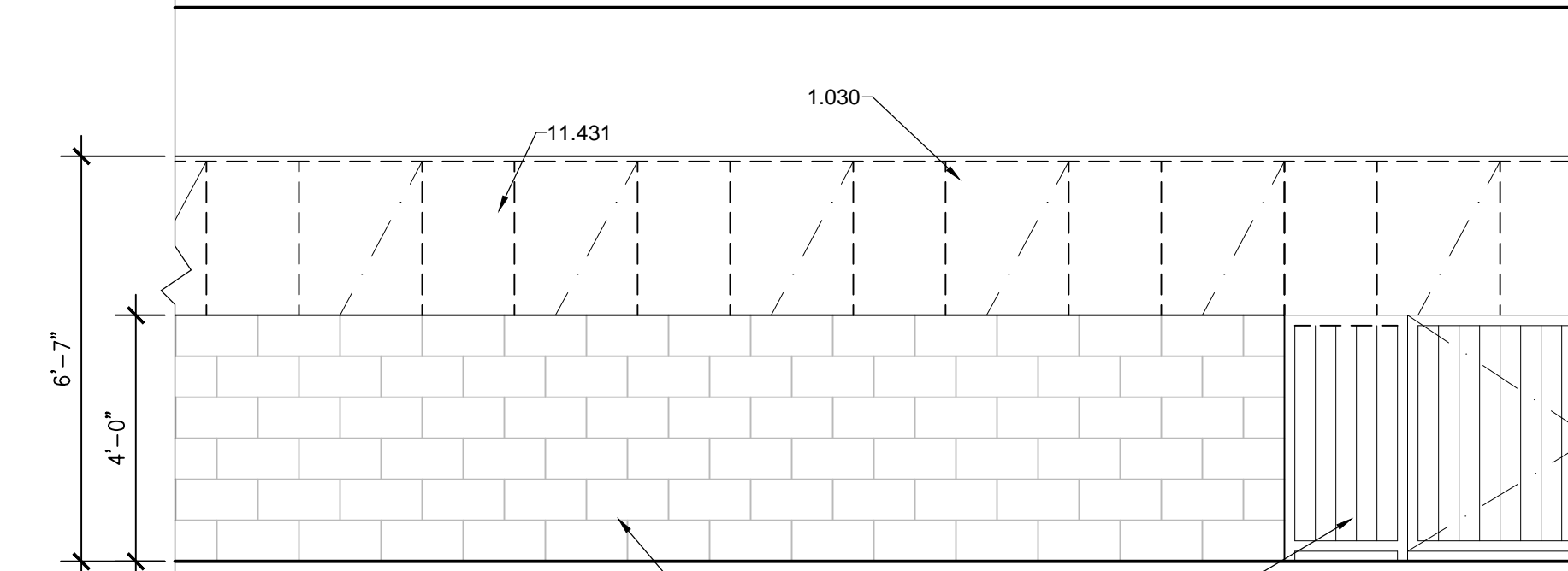
REVISION:	DATE	COMMENTS
REVISION:		
REVISION:		
REVISION:		

INITIALS	REV.	DATE
	BDA DSGN. REV.	
	BDA TECH REV.	

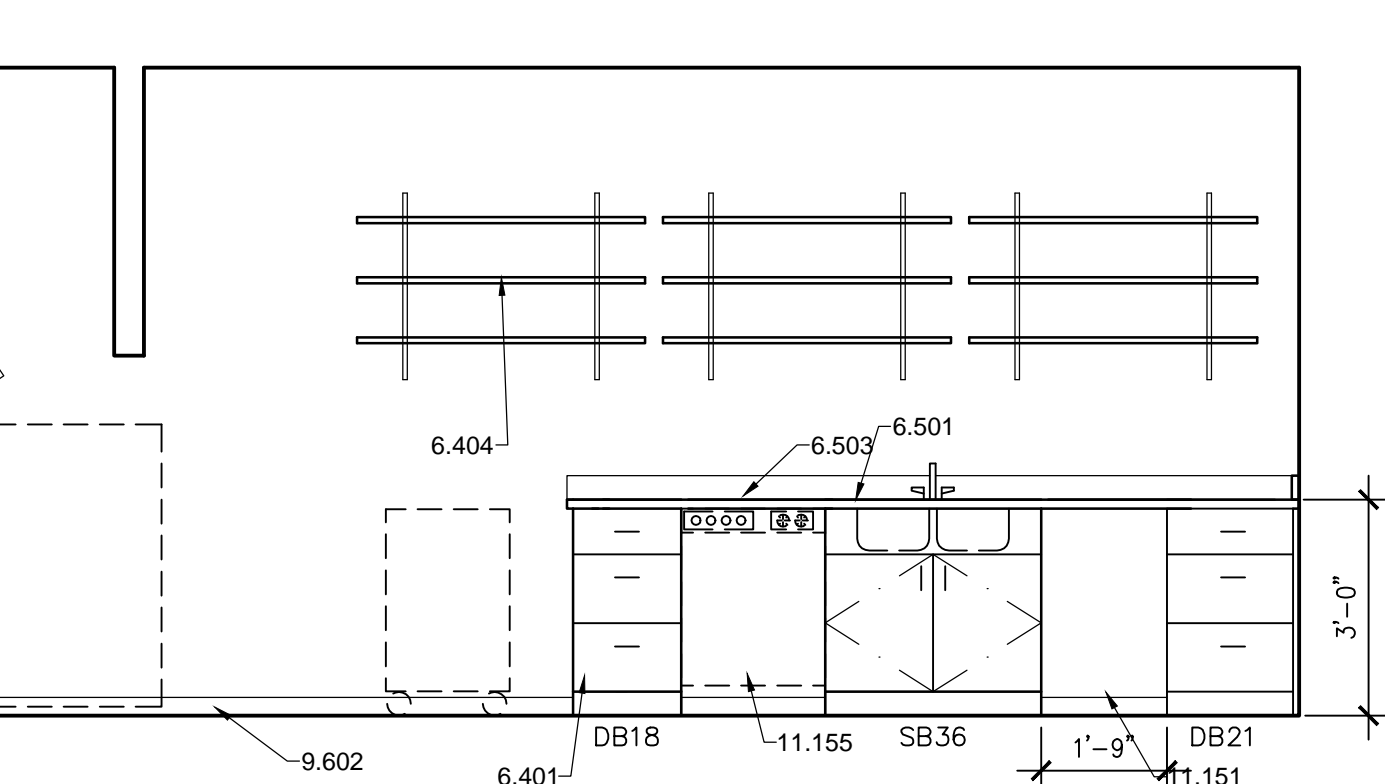
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 DRAWN: RV/MLL  
 DATE: 2/27/2015  
**A202**  
 OF



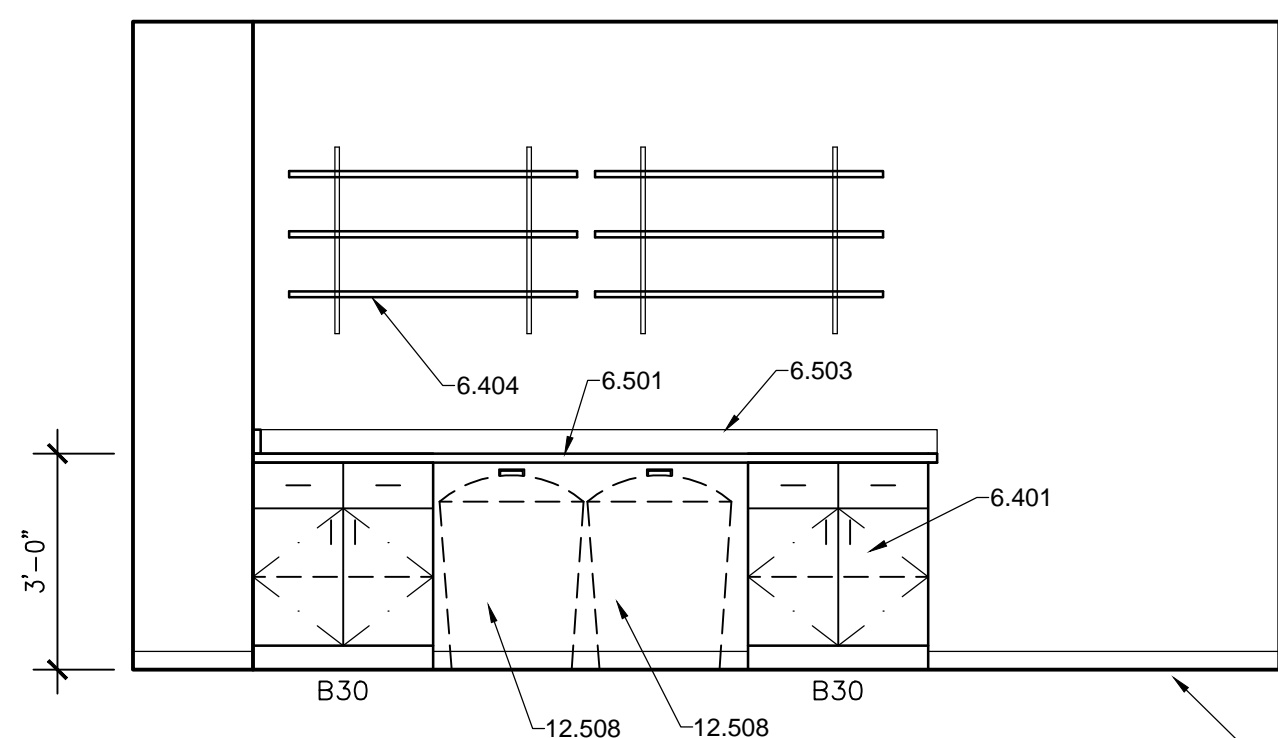
**G1 CANINE RUNS #117**  
 3/8" = 1'-0"



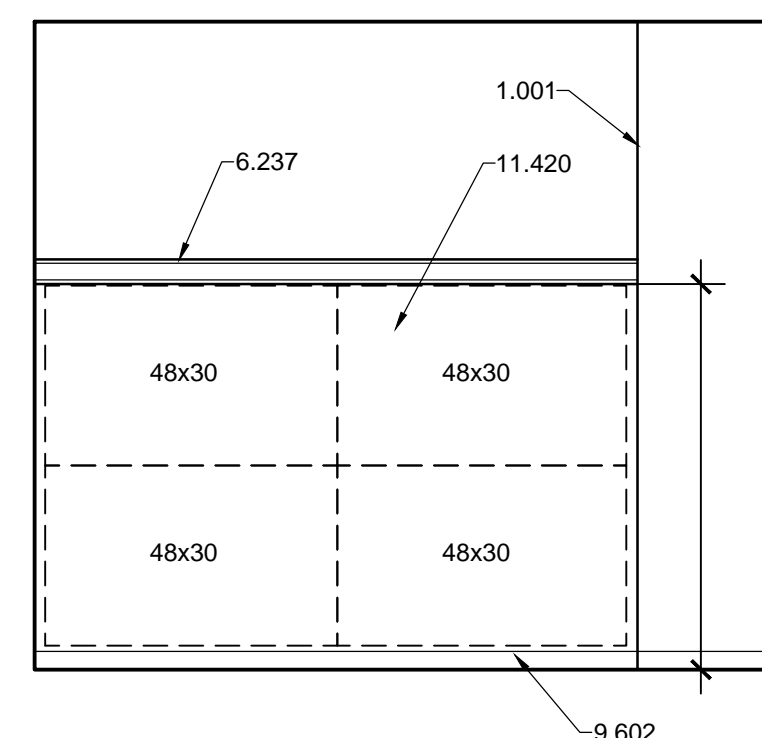
**G6 CANINE RUNS # 138**  
 3/8" = 1'-0"



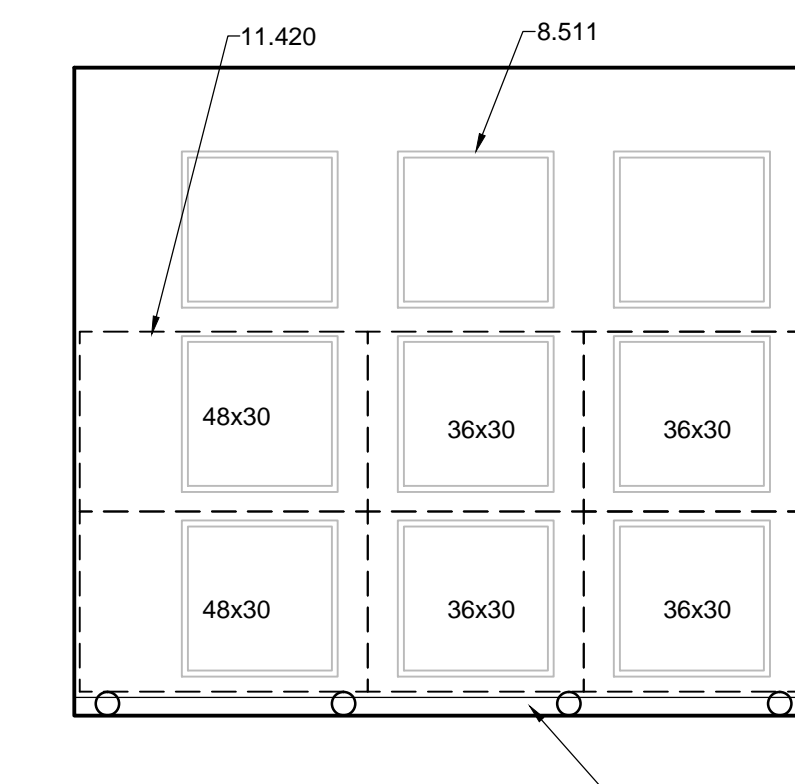
**E1 CANINE F.P. / LAUNDRY #112**  
 3/8" = 1'-0"



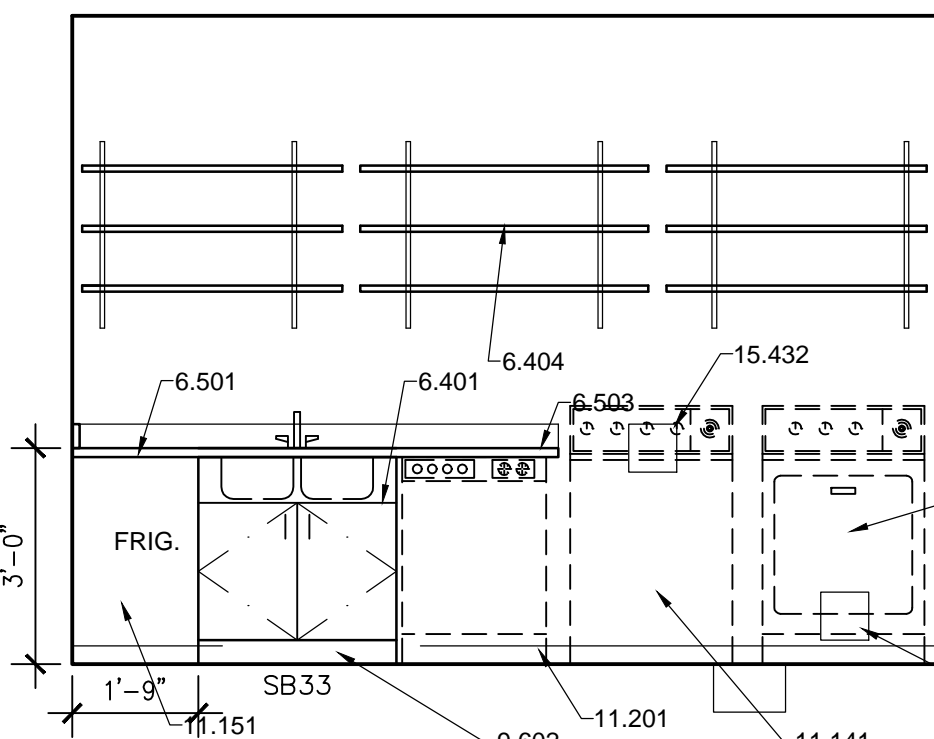
**E4 CANINE F.P. / LAUNDRY #110**  
 3/8" = 1'-0"



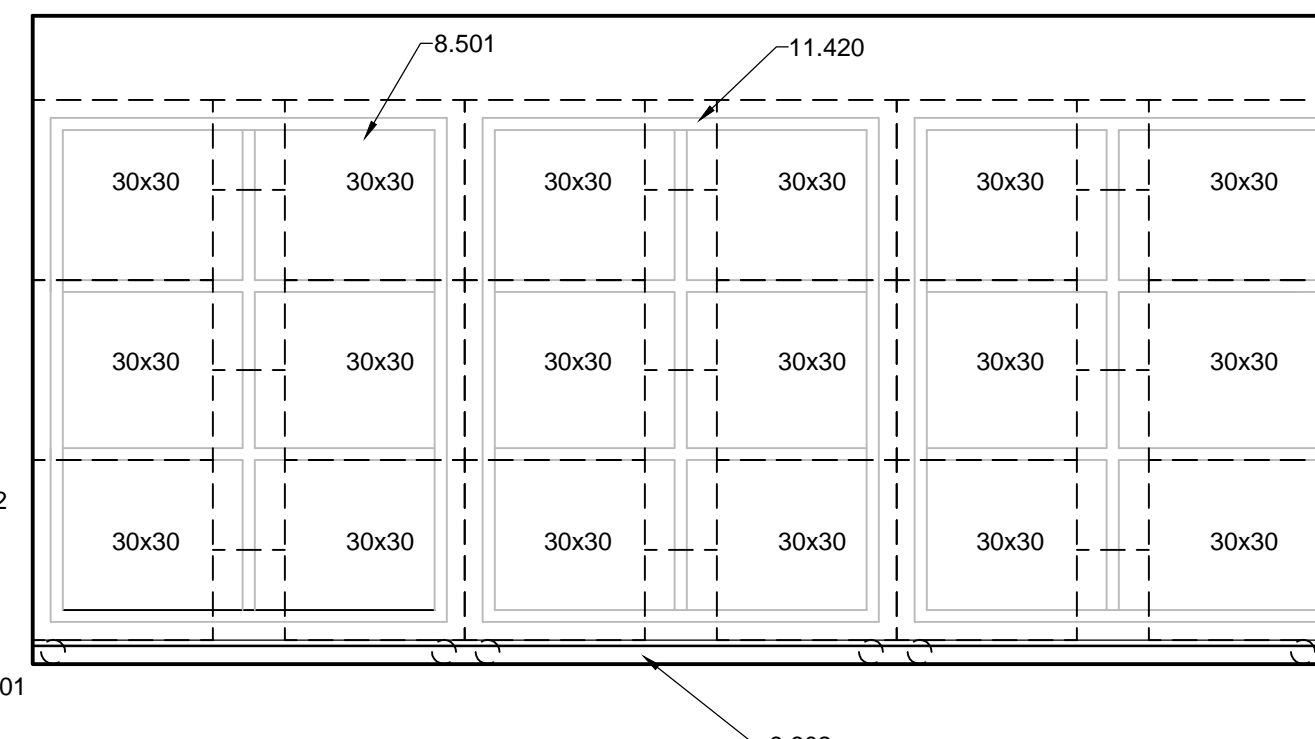
**E6 PUPPY ADOPTION #116**  
 3/8" = 1'-0"



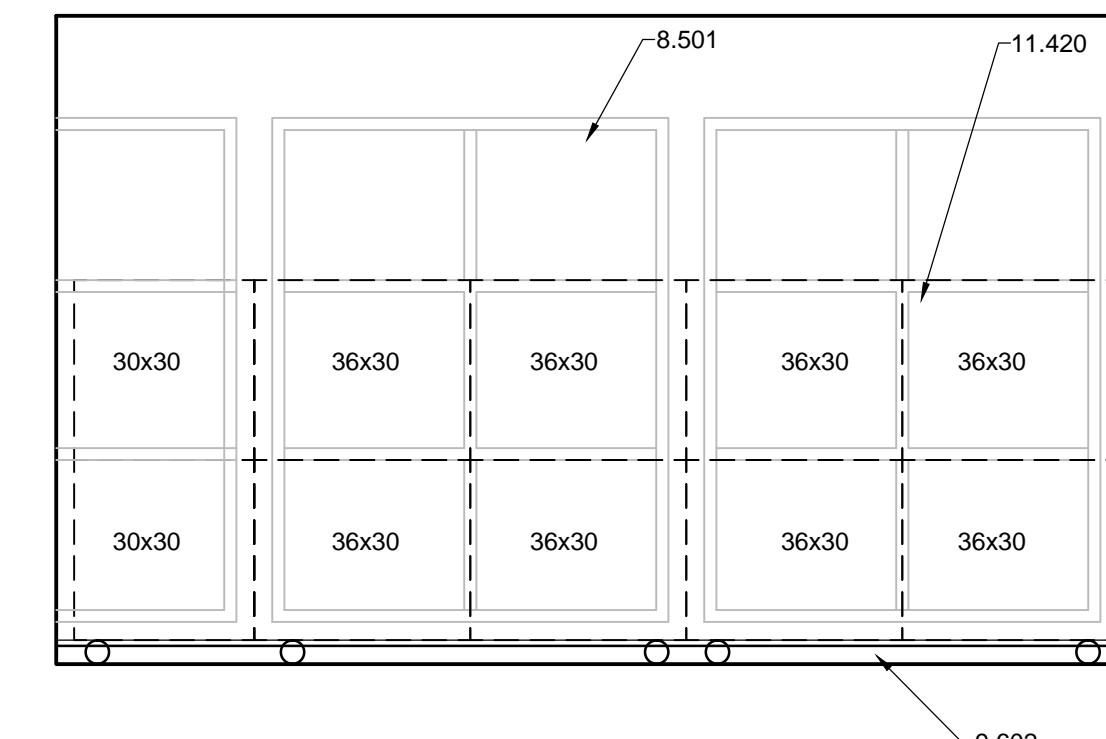
**E8 PUPPY ADOPTION #116**  
 3/8" = 1'-0"



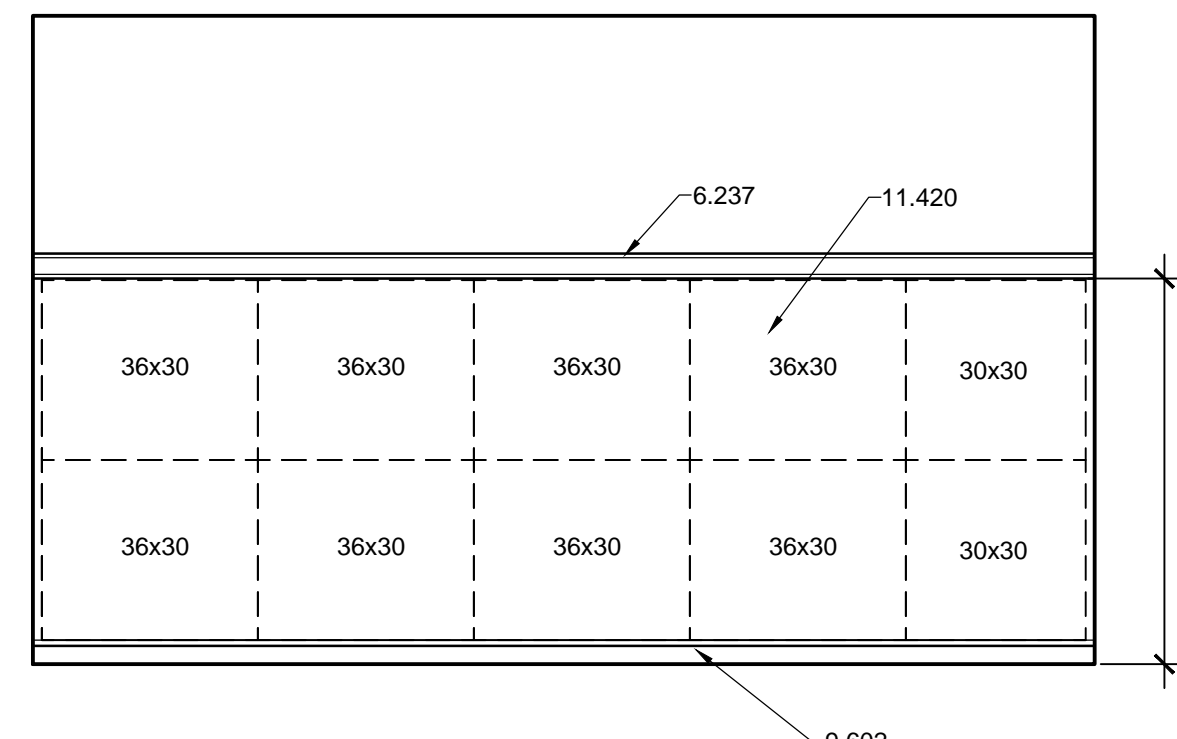
**C1 FELINE F.P. & LAUNDRY #105**  
 3/8" = 1'-0"



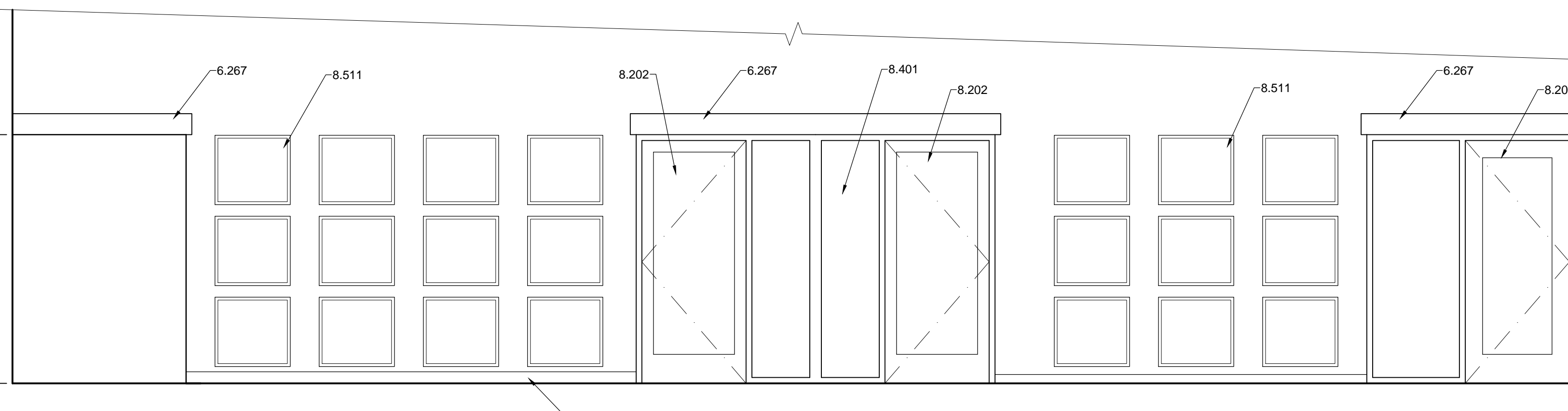
**C3 FELINE ADOPTION #104**  
 3/8" = 1'-0"



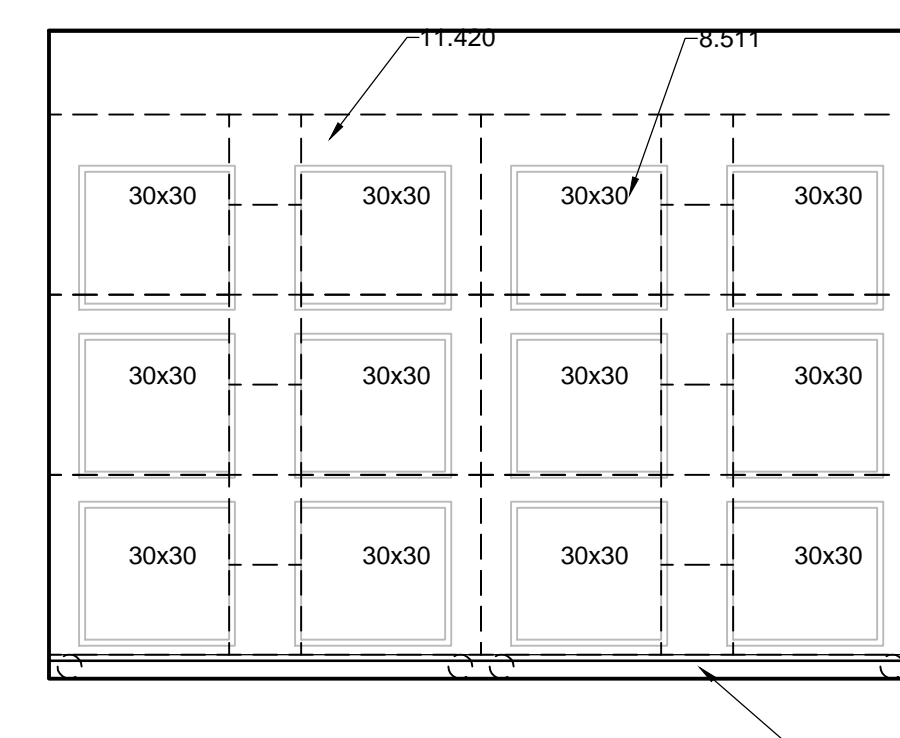
**C5 SMALL DOG ADOPTION #113**  
 3/8" = 1'-0"



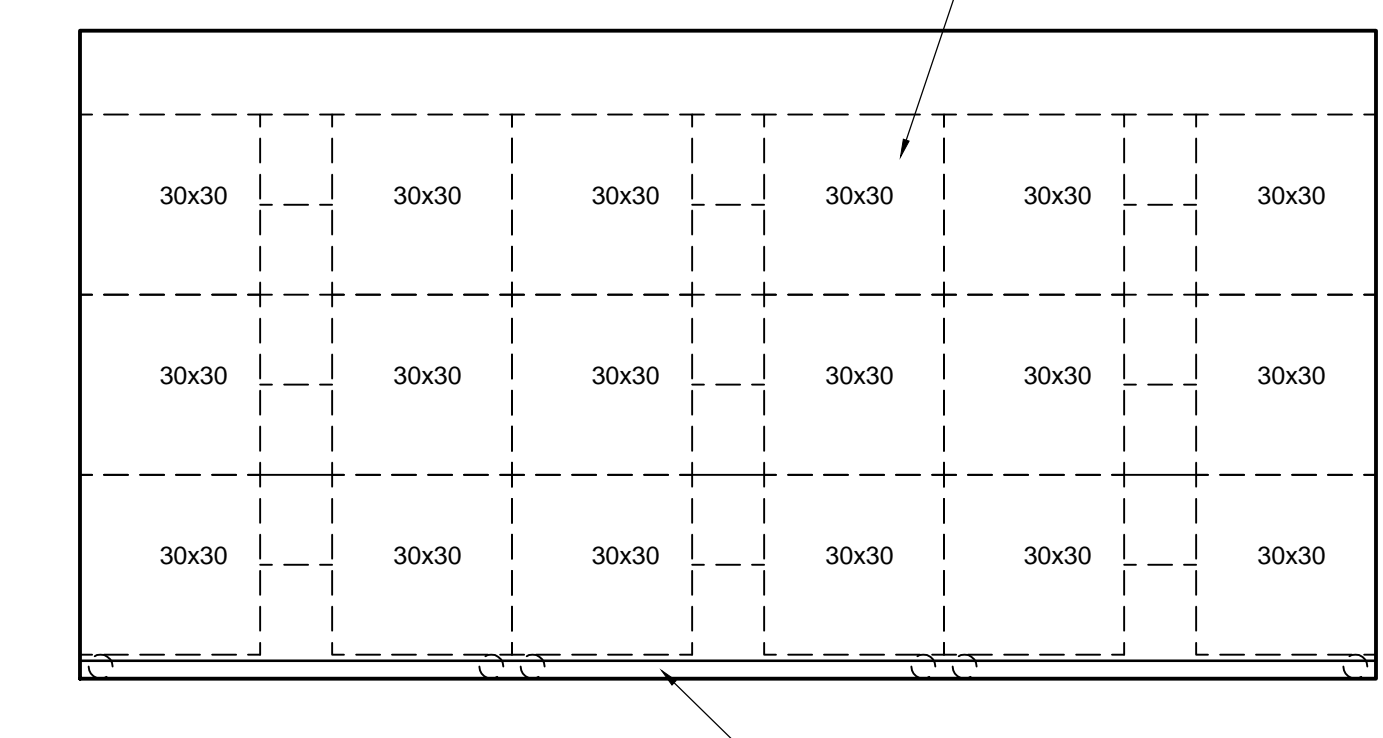
**C8 SMALL DOG ADOPTION #113**  
 3/8" = 1'-0"



**A1 ADOPTION LOBBY #107**  
 3/8" = 1'-0"



**A7 FELINE ADOPTION #106**  
 3/8" = 1'-0"



**A9 FELINE ADOPTION #104**  
 3/8" = 1'-0"

**GENERAL NOTES**

- A. ALL CASEWORK TO HAVE PLASTIC LAMINATE FINISH, U.N.O.
- B. ALL EXPOSED COUNTERTOP CORNERS TO HAVE 2" RADIUS.
- C. ALL EXPOSED COUNTERTOPS TO BE FACED WITH PVC EDGEBANDING.
- D. ALL RUN AND CAGE BANK DIMENSIONS TO BE VERIFIED BEFORE INSTALLATION.
- E. GROMMET LOCATIONS IN COUNTERTOPS TO BE VERIFIED WITH OWNER.
- F. PROVIDE BLOCKING IN WALL FOR ALL WALL MOUNTED EQUIPMENT.
- G. ALL EXPOSED OUTSIDE CORNERS OF INTERIOR WALLS SHALL HAVE CORNER GUARDS.
- H. AT ALL VERTICAL TILE APPLICATIONS, INSTALL 'SCHLUTER' STRIPS ON OUTSIDE CORNERS.

**REFERENCE KEYNOTES**

- DIVISION 01 - GENERAL REQUIREMENTS
  - 1.030 - SOFFIT
- DIVISION 04 - MASONRY
  - 4.230 - PARTIAL HEIGHT CMU PARTITION
- DIVISION 06 - WOOD AND PLASTICS
  - 6.237 - WOOD SHELF WITH MELAMINE TOP
  - 6.267 - DECORATIVE WOOD HEADER
  - 6.401 - PLASTIC LAMINATE BASE CABINET
  - 6.404 - PLASTIC LAMINATE ADJUSTABLE SHELVES
  - 6.501 - PLASTIC LAMINATE COUNTERTOP
  - 6.503 - 4" HIGH PLASTIC LAMINATE BACKSPLASH
- DIVISION 08 - OPENINGS
  - 8.202 - DOOR AND FRAME AS SCHEDULED
  - 8.501 - EXTERIOR WINDOW
  - 8.511 - INTERIOR WINDOW
- DIVISION 09 - FINISHES
  - 9.602 - BASE AS SCHEDULED
- DIVISION 11 - EQUIPMENT
  - 11.141 - FULL SIZE WASHER - N.I.C.
  - 11.142 - FULL SIZE DRYER - N.I.C.
  - 11.151 - UNDER COUNTER REFRIGERATOR - N.I.C.
  - 11.201 - DISHWASHER - O.F.C.I.
  - 11.420 - CAGE BANK - O.F.C.I.
  - 11.431 - SST. RUN GATE AND PARTITIONS - O.F.C.I.
- DIVISION 12 - FURNISHINGS
  - 12.508 - FOOD STORAGE BIN - N.I.C.
- DIVISION 15 - MECHANICAL
  - 15.432 - WASHER BOX
  - 15.801 - DRYER VENT BOX

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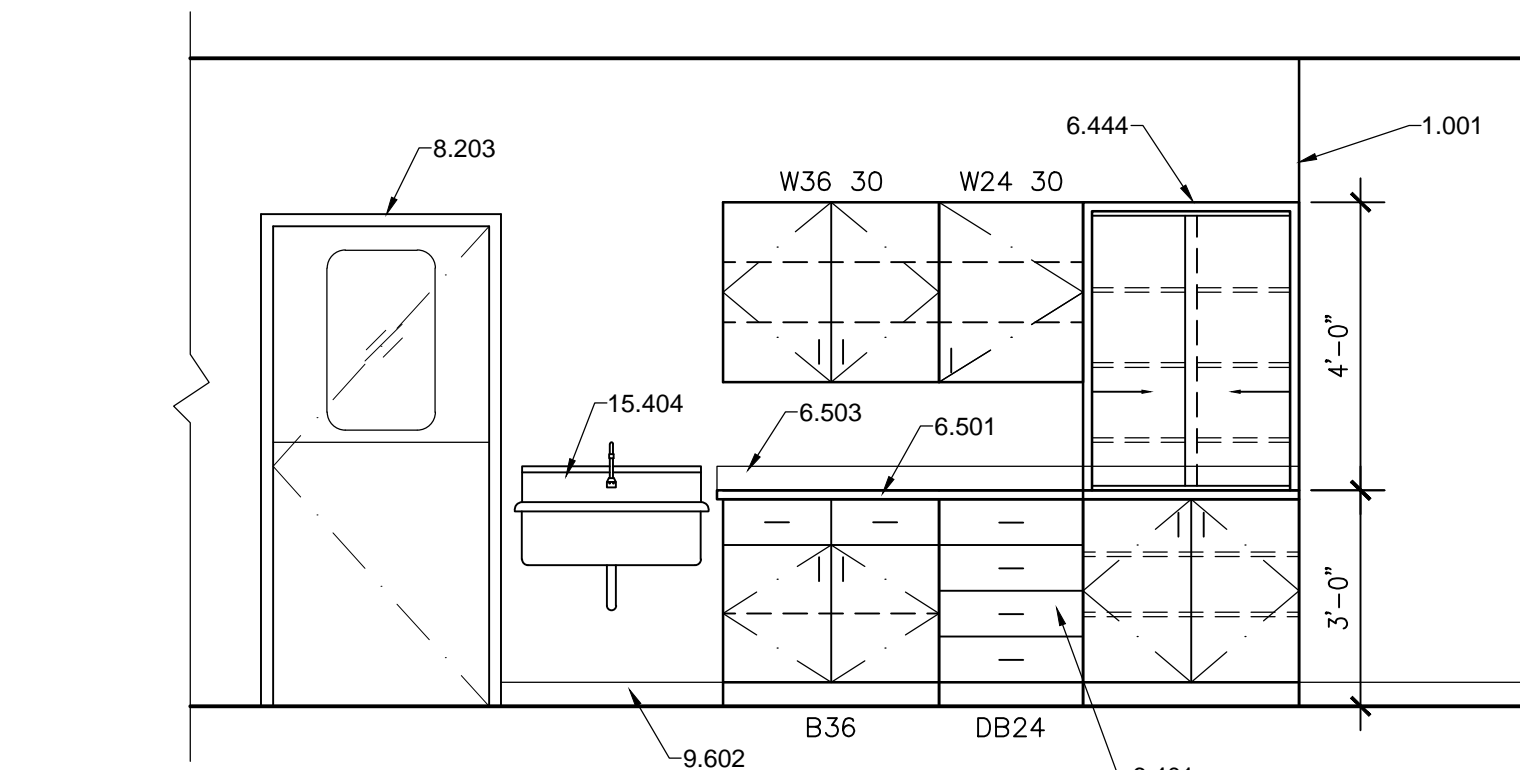
**INTERIOR ELEVATIONS**

REV.#	DATE	COMMENTS

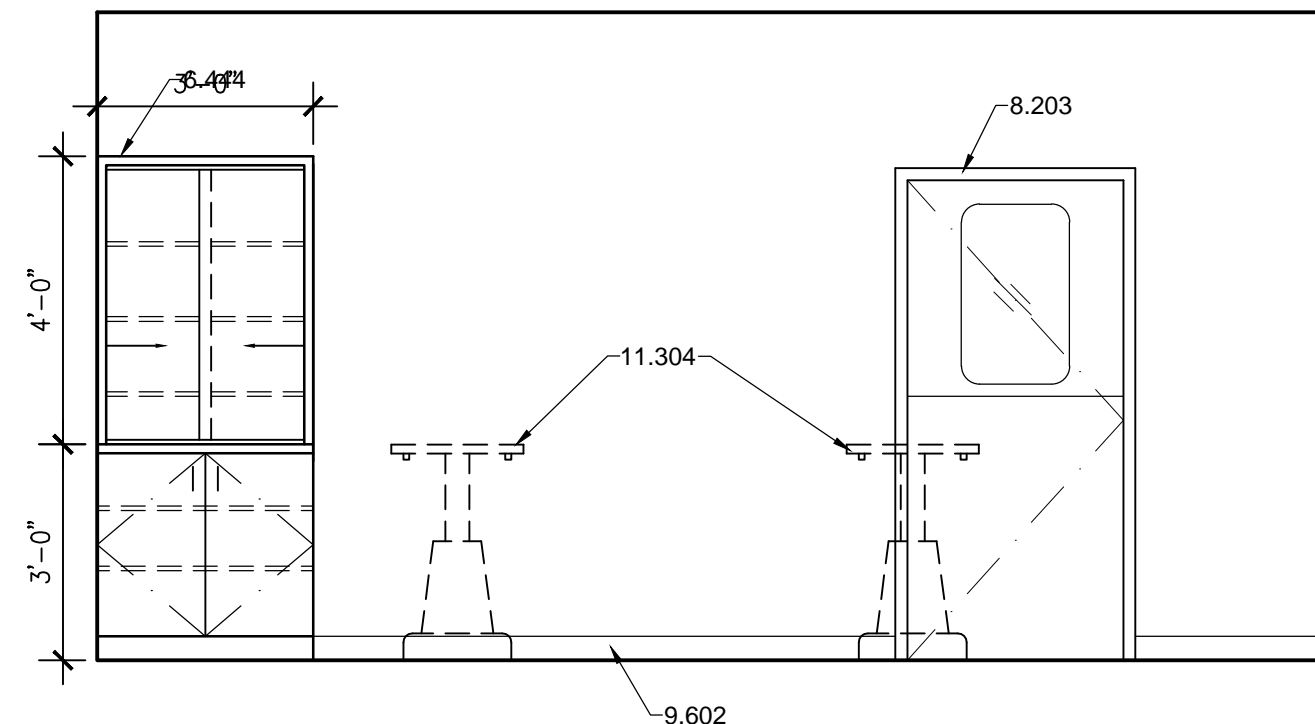
**REVIEWS**

INITIALS	DESIGN. REV.	TECH. REV.

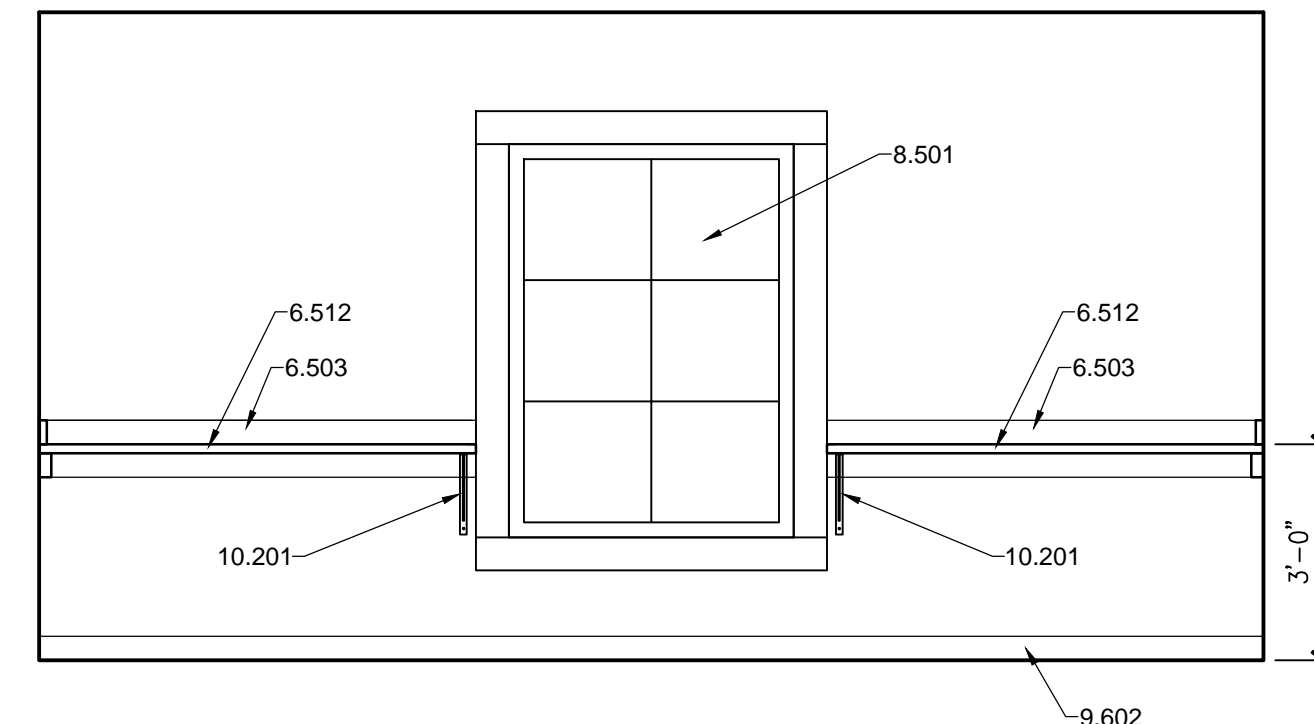
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 DRAWN: RK/MLL  
 DATE: 2/27/2015  
**A203**  
 OF



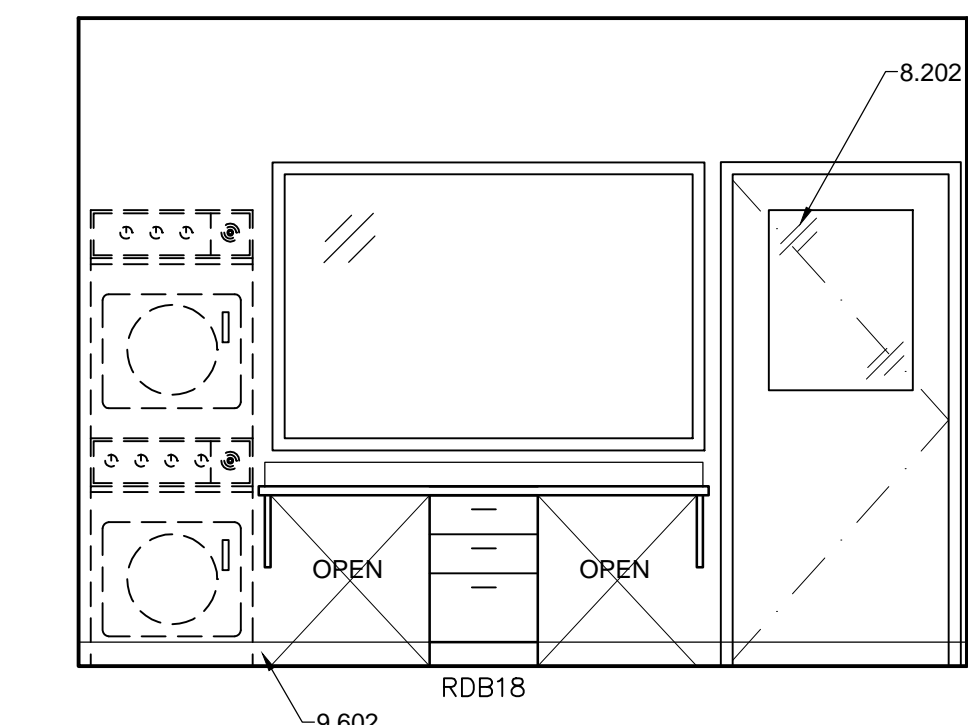
**G1 EXAM/TREATMENT #140**  
 3/8" = 1'-0"



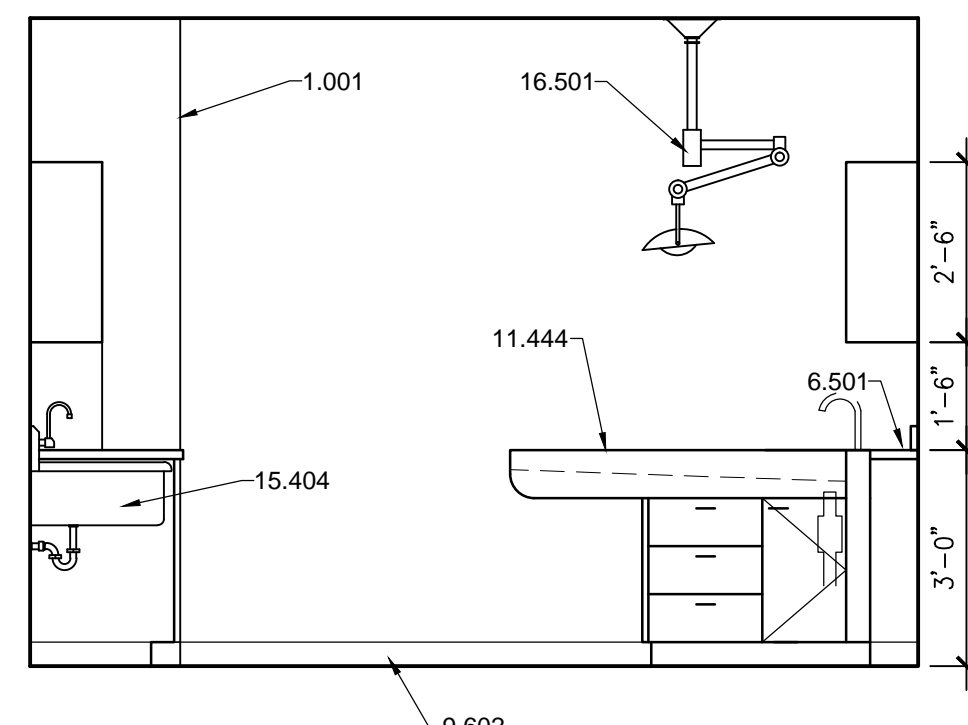
**G4 SURGERY #141**  
 3/8" = 1'-0"



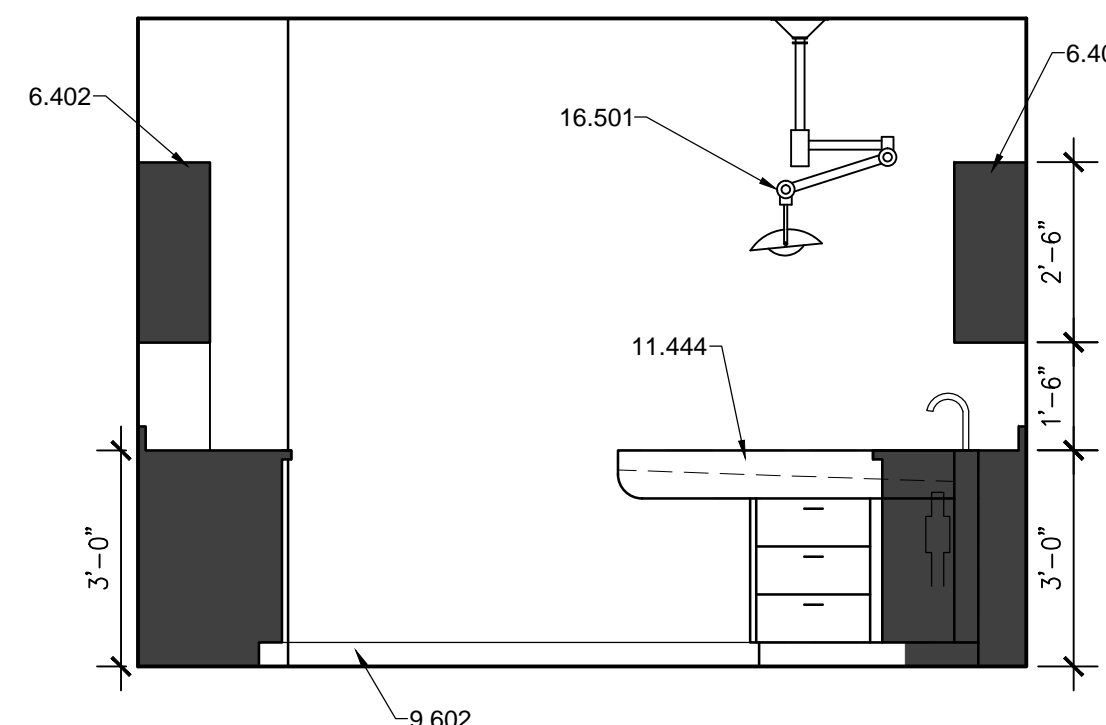
**G6 SURGERY #141**  
 3/8" = 1'-0"



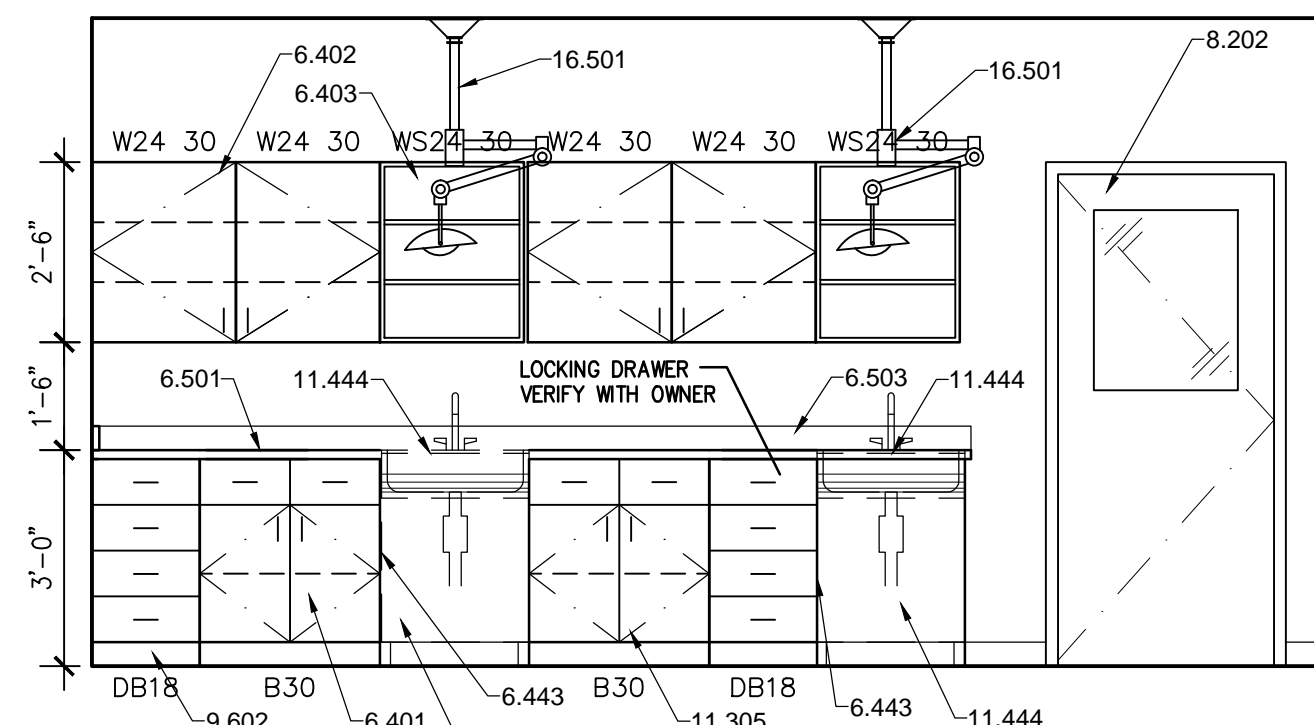
**E1 EXAM/TREATMENT #140**  
 3/8" = 1'-0"



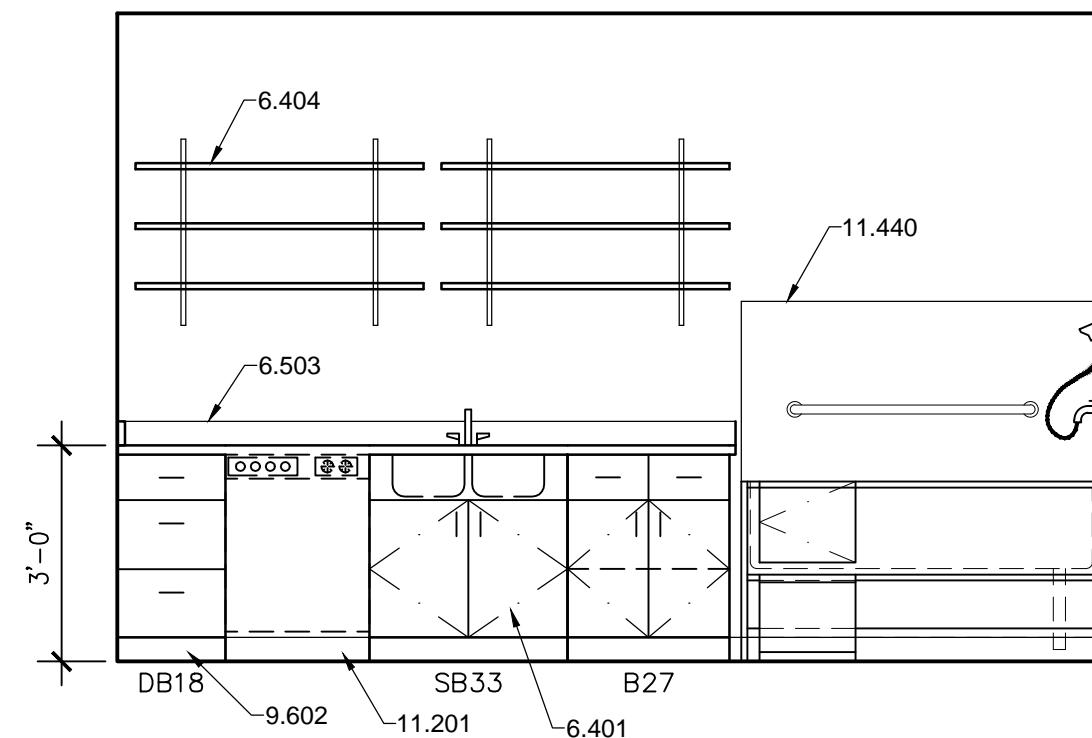
**E3 EXAM/TREATMENT #140**  
 3/8" = 1'-0"



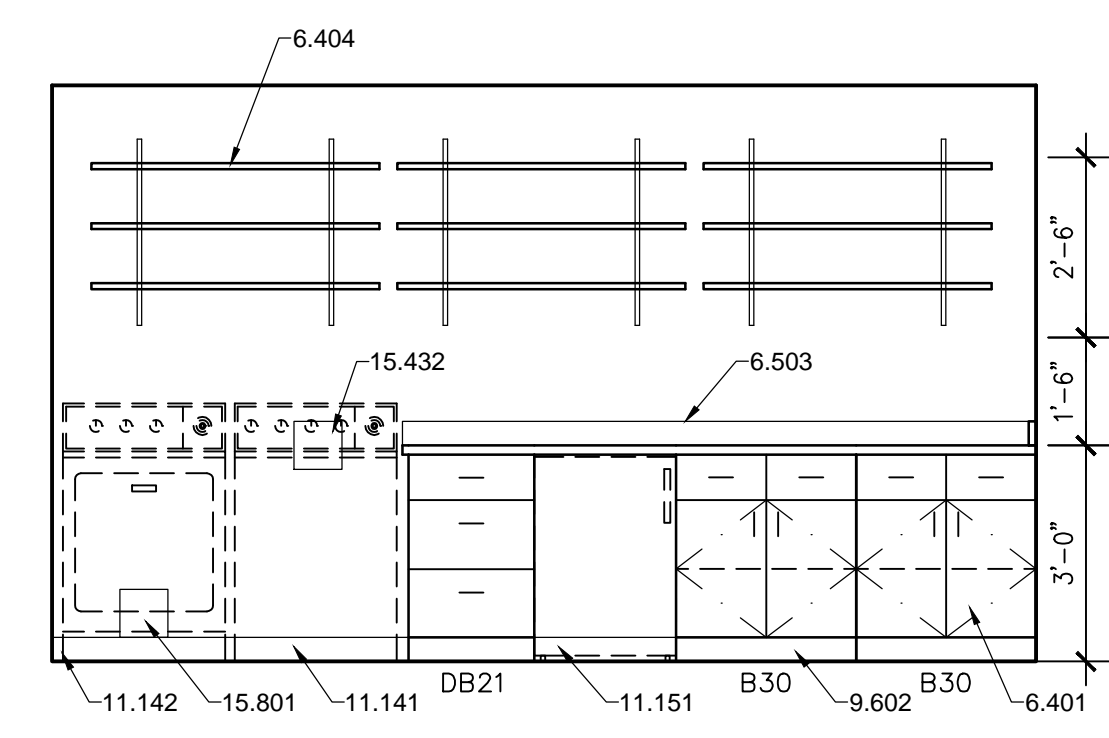
**E4 EXAM/TREATMENT #140**  
 3/8" = 1'-0"



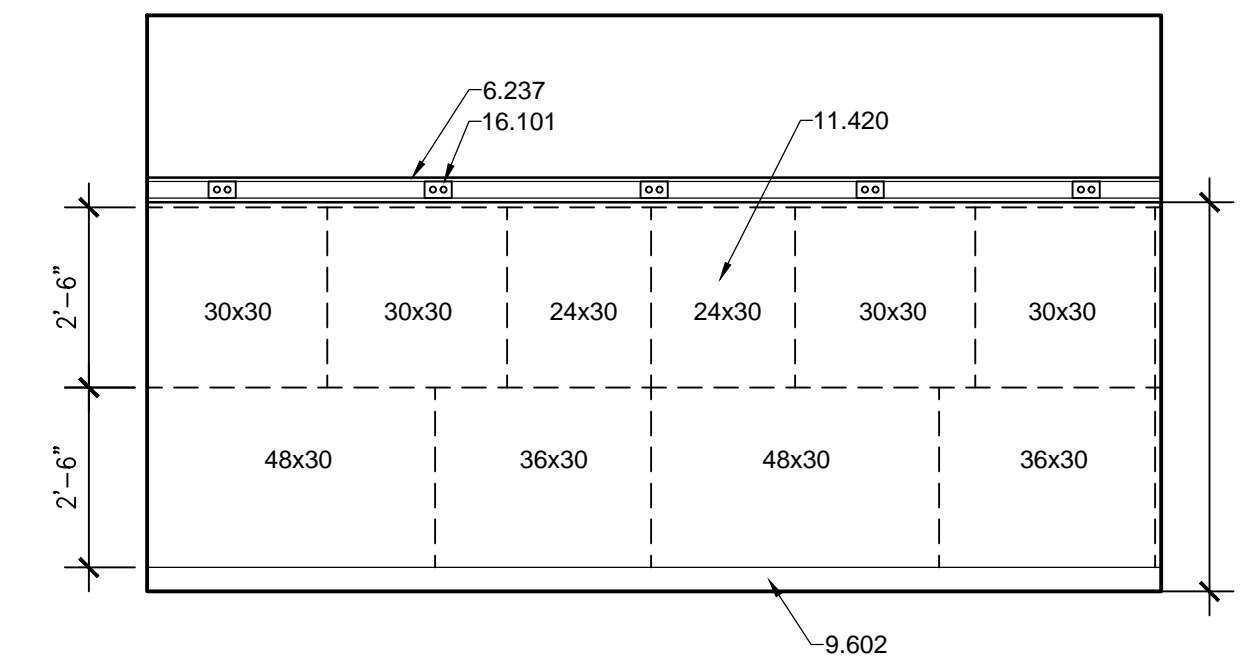
**E7 EXAM/TREATMENT #140**  
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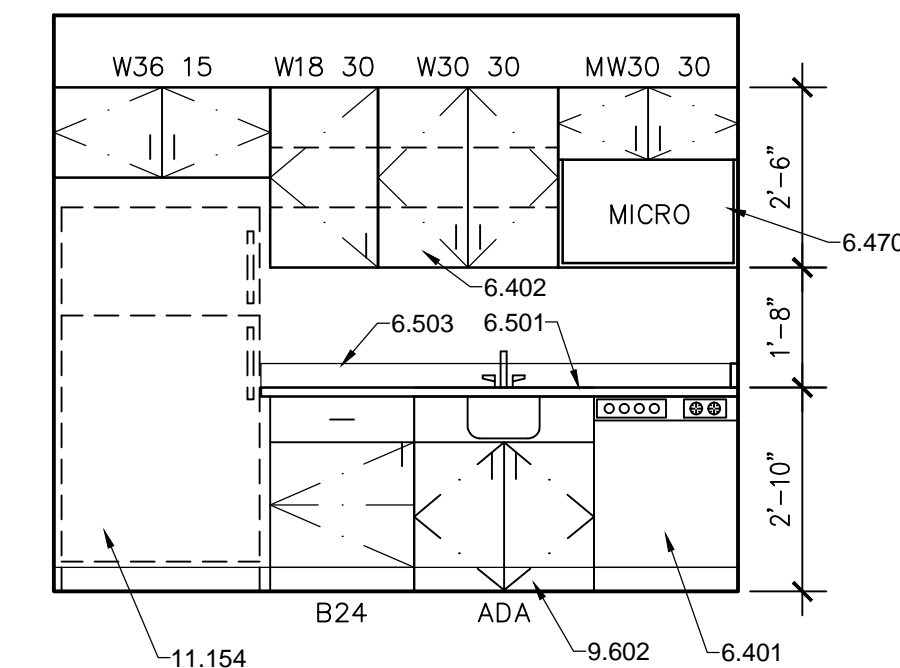
**C1 INTAKE F.P./LAUNDRY/BATHE #153**  
 3/8" = 1'-0"



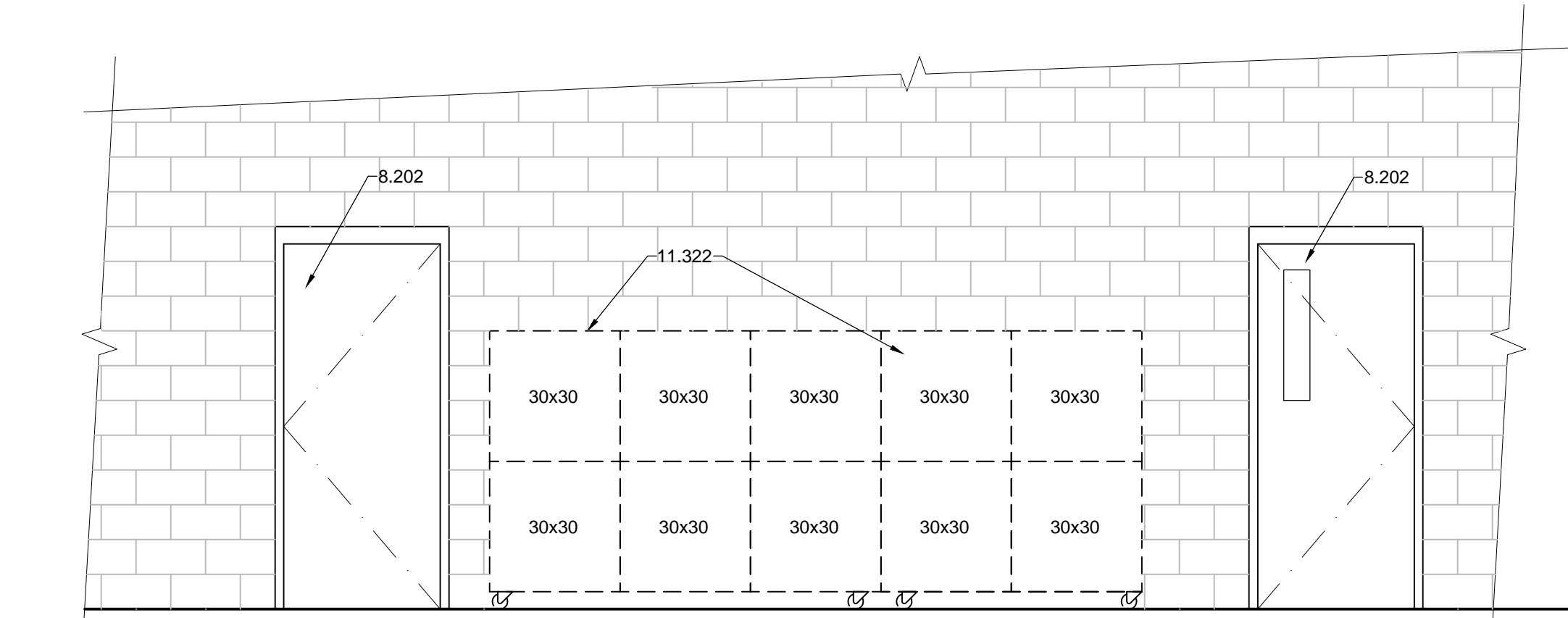
**C3 INTAKE F.P./LAUNDRY/BATHE #153**  
 3/8" = 1'-0"



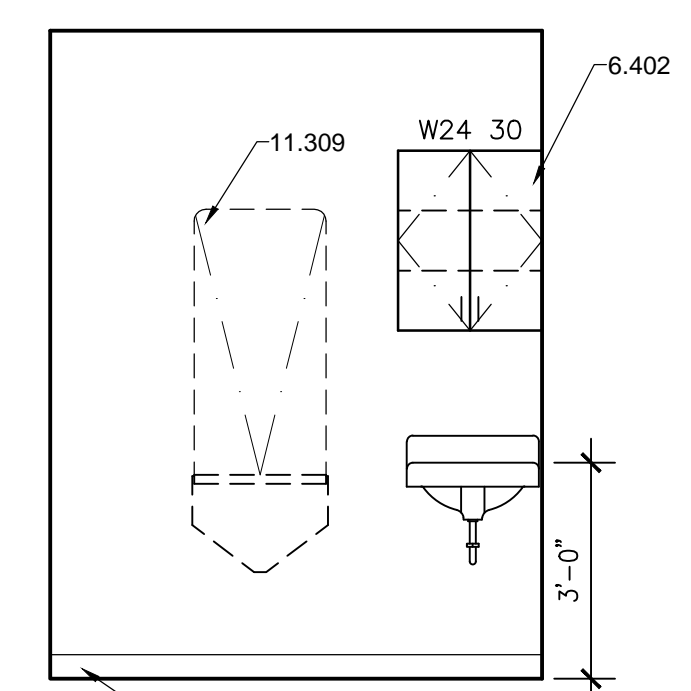
**C6 I.C.U. #143**  
 3/8" = 1'-0"



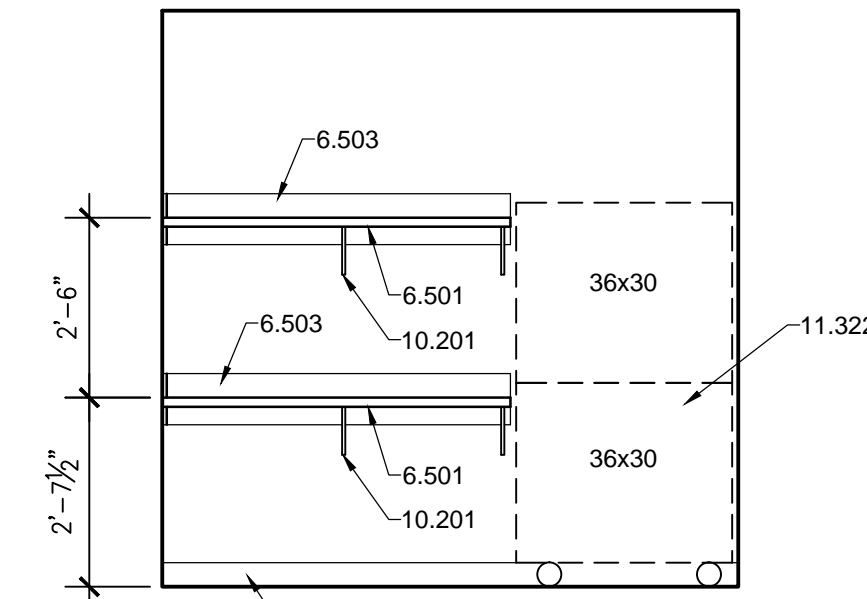
**C8 STAFF LOUNGE #147**  
 3/8" = 1'-0"



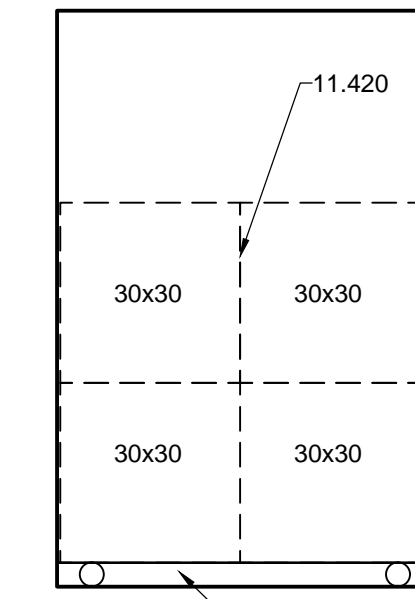
**A1 INTAKE GARAGE #158**  
 3/8" = 1'-0"



**A5 EUTHANASIA #159**  
 3/8" = 1'-0"



**A9 EXOTIC #137**  
 3/8" = 1'-0"



**A10 ISOLATION #157**  
 3/8" = 1'-0"

**GENERAL NOTES**

- A. ALL CASEWORK TO HAVE PLASTIC LAMINATE FINISH, U.N.O.
- B. ALL EXPOSED COUNTERTOP CORNERS TO HAVE 2" RADIUS.
- C. ALL EXPOSED COUNTERTOPS TO BE FACED WITH PVC EDGEBANDING.
- D. ALL RUN AND CAGE BANK DIMENSIONS TO BE VERIFIED BEFORE INSTALLATION.
- E. GROMMET LOCATIONS IN COUNTERTOPS TO BE VERIFIED WITH OWNER.
- F. PROVIDE BLOCKING IN WALL FOR ALL WALL MOUNTED EQUIPMENT.
- G. ALL EXPOSED OUTSIDE CORNERS OF INTERIOR WALLS SHALL HAVE CORNER GUARDS.
- H. AT ALL VERTICAL TILE APPLICATIONS, INSTALL 'SCHLUTER' STRIPS ON OUTSIDE CORNERS.

**REFERENCE KEYNOTES**

- DIVISION 06 - WOOD AND PLASTICS**
- 6.237 - WOOD SHELF WITH MELAMINE TOP
  - 6.401 - PLASTIC LAMINATE BASE CABINET
  - 6.402 - PLASTIC LAMINATE WALL CABINET
  - 6.403 - PLASTIC LAMINATE OPEN SHELVING UNIT - ADJUSTABLE
  - 6.404 - PLASTIC LAMINATE ADJUSTABLE SHELVES
  - 6.444 - PLASTIC LAMINATE PASS-THRU CABINET
  - 6.470 - PLASTIC LAMINATE MICROWAVE CABINET
  - 6.501 - PLASTIC LAMINATE COUNTERTOP
  - 6.503 - 4" HIGH PLASTIC LAMINATE BACKSPASH
  - 6.512 - 18" DEEP PLASTIC LAMINATE COUNTERTOP
- DIVISION 08 - OPENINGS**
- 8.202 - DOOR AND FRAME AS SCHEDULED
  - 8.203 - ELIASON DOOR AS SCHEDULED
  - 8.501 - EXTERIOR WINDOW
- DIVISION 09 - FINISHES**
- 9.602 - BASE AS SCHEDULED
- DIVISION 10 - SPECIALTIES**
- 10.201 - KV BRACKET
- DIVISION 11 - EQUIPMENT**
- 11.141 - FULL SIZE WASHER - N.I.C.
  - 11.142 - FULL SIZE DRYER - N.I.C.
  - 11.151 - UNDER COUNTER REFRIGERATOR - N.I.C.
  - 11.154 - REFRIGERATOR - N.I.C.
  - 11.201 - DISHWASHER - O.F.C.I.
  - 11.304 - SURGERY TABLE - N.I.C.
  - 11.305 - ROLLING GURNEY - N.I.C.
  - 11.309 - SST. FOLDING EXAM TABLE - N.I.C.
  - 11.322 - ROLLING CAGE BANK - N.I.C.
  - 11.420 - CAGE BANK - O.F.C.I.
  - 11.440 - SST. BATHING TUB - O.F.C.I.
  - 11.443 - PLASTIC LAMINATE TUB TABLE ENCLOSURE SEE DTL A502
  - 11.444 - 5' SST. SHALLOW TUB TABLE - O.F.C.I.
- DIVISION 15 - MECHANICAL**
- 15.404 - SINGLE SCRUB SINK
  - 15.432 - WASHER BOX
  - 15.801 - DRYER VENT BOX
- DIVISION 16 - ELECTRICAL**
- 16.101 - PANDUIT RACEWAY
  - 16.501 - EXAM LIGHT FIXTURE - O.F.C.I.

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**INTERIOR ELEVATIONS**

REVISION:	REV.#	DATE	COMMENTS
REVISION:	-	-	-
REVISION:	-	-	-
REVISION:	-	-	-

**REVIEWS**

INITIALS	REVISION
-	BDA DSGN. REV.
-	BDA TECH REV.

CCAS  
 PROJECT NO.: 1107  
 DRAWN: JK/DG  
 DATE: 2/27/2015  
**A204**  
 OF



Save Date: February 27, 2015 3:41 PM - jdmk  
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**GENERAL NOTES**

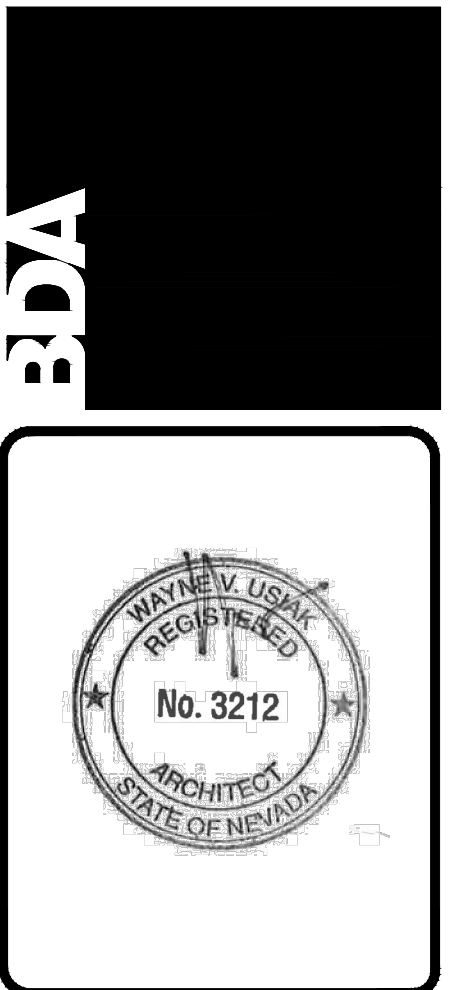
- A. ALL CASEWORK TO HAVE PLASTIC LAMINATE FINISH, U.N.O.
- B. ALL EXPOSED COUNTERTOP CORNERS TO HAVE 2" RADIUS.
- C. ALL EXPOSED COUNTERTOPS TO BE FACED WITH PVC EDGEBANDING.
- D. ALL RUN AND CAGE BANK DIMENSIONS TO BE VERIFIED BEFORE INSTALLATION.
- E. GROMMET LOCATIONS IN COUNTERTOPS TO BE VERIFIED WITH OWNER.
- F. PROVIDE BLOCKING IN WALL FOR ALL WALL MOUNTED EQUIPMENT.
- G. ALL EXPOSED OUTSIDE CORNERS OF INTERIOR WALLS SHALL HAVE CORNER GUARDS.
- H. AT ALL VERTICAL TILE APPLICATIONS, INSTALL 'SCHLUTER' STRIPS ON OUTSIDE CORNERS.

**REFERENCE KEYNOTES**

- DIVISION 06 - WOOD AND PLASTICS
- 6.182 - PARTIAL HEIGHT INTERIOR PARTITION WALL
  - 6.237 - WOOD SHELF WITH MELAMINE TOP
  - 6.401 - PLASTIC LAMINATE BASE CABINET
  - 6.470 - PLASTIC LAMINATE MICROWAVE CABINET
  - 6.472 - PLASTIC LAMINATE UPPER CABINET WITH OPEN SHELF
  - 6.490 - PLASTIC LAMINATE FACE
  - 6.501 - PLASTIC LAMINATE COUNTERTOP
  - 6.503 - 4" HIGH PLASTIC LAMINATE BACKSPLASH
  - 6.560 - SOLID SURFACE COUNTERTOP
  - 6.630 - PLASTIC LAMINATE GATE
- DIVISION 08 - OPENINGS
- 8.202 - DOOR AND FRAME AS SCHEDULED
  - 8.501 - EXTERIOR WINDOW
  - 8.511 - INTERIOR WINDOW
- DIVISION 09 - FINISHES
- 9.513 - CERAMIC TILE FACE
  - 9.602 - BASE AS SCHEDULED
- DIVISION 10 - SPECIALTIES
- 10.201 - KV BRACKET
- DIVISION 11 - EQUIPMENT
- 11.401 - SST. FOLDING EXAM TABLE - O.F.C.I.
  - 11.420 - CAGE BANK - O.F.C.I.
  - 11.429 - ROLLING CAGE BANK - O.F.C.I.
  - 11.444 - 5' SST. SHALLOW TUB TABLE - O.F.C.I.
- DIVISION 16 - ELECTRICAL
- 16.501 - EXAM LIGHT FIXTURE - O.F.C.I.

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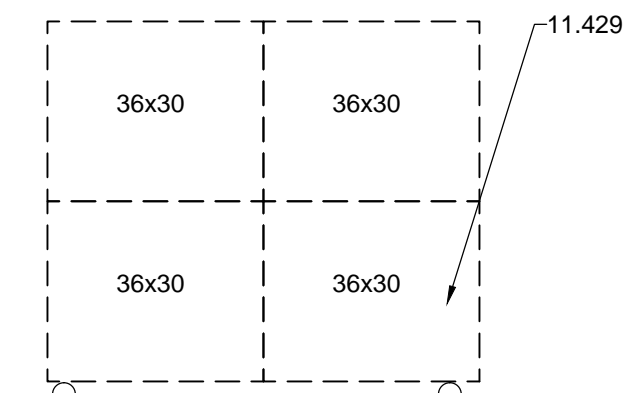
**INTERIOR ELEVATIONS**

REV.#	DATE	COMMENTS

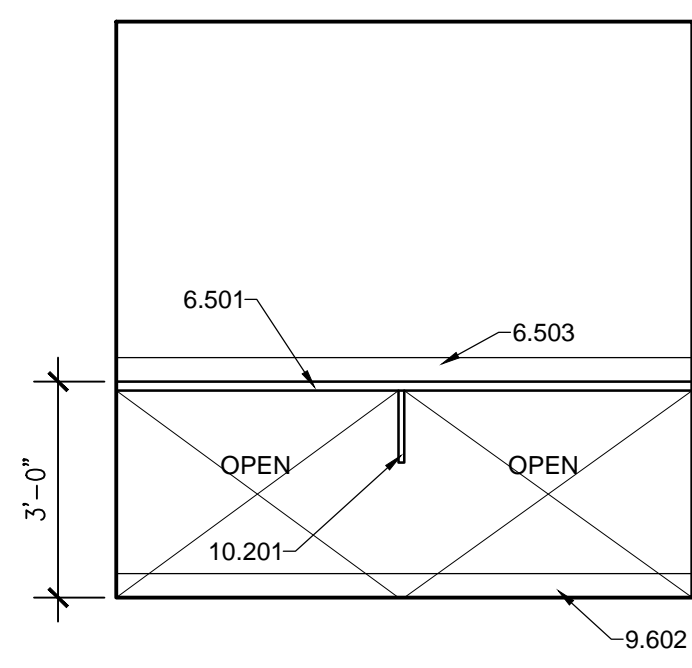
**REVIEWS**

INITIALS	REVISION
	BDA DSGN. REV.
	BDA TECH REV.

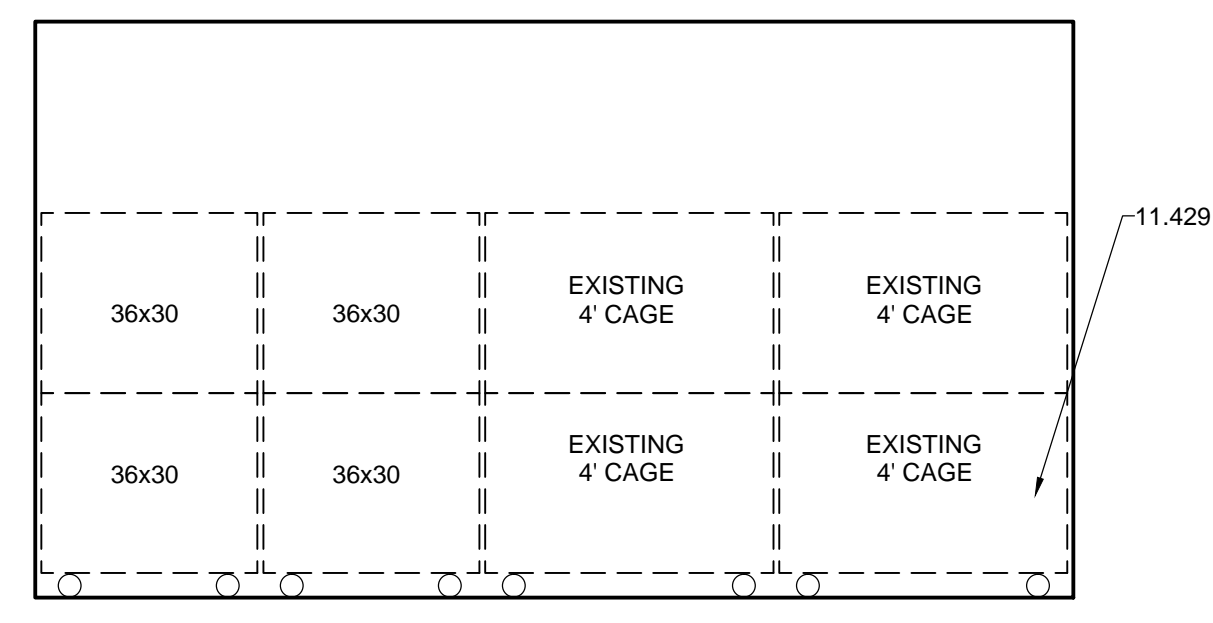
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 DRAWN: JK/DG  
 DATE: 2/27/2015  
**A205**  
 OF



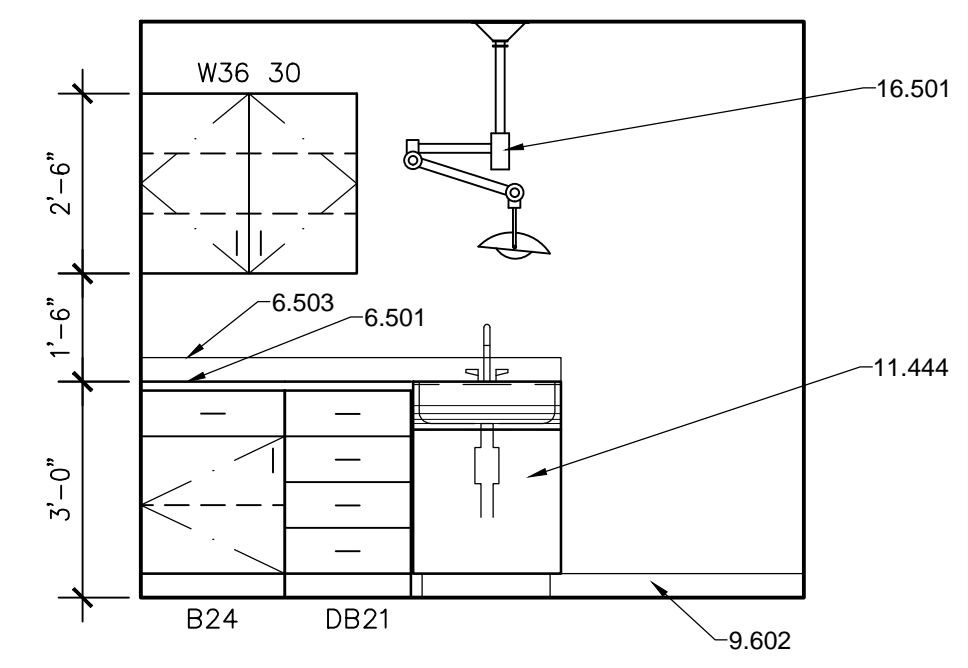
**G1 LOBBY # 107**  
 3/8" = 1'-0"



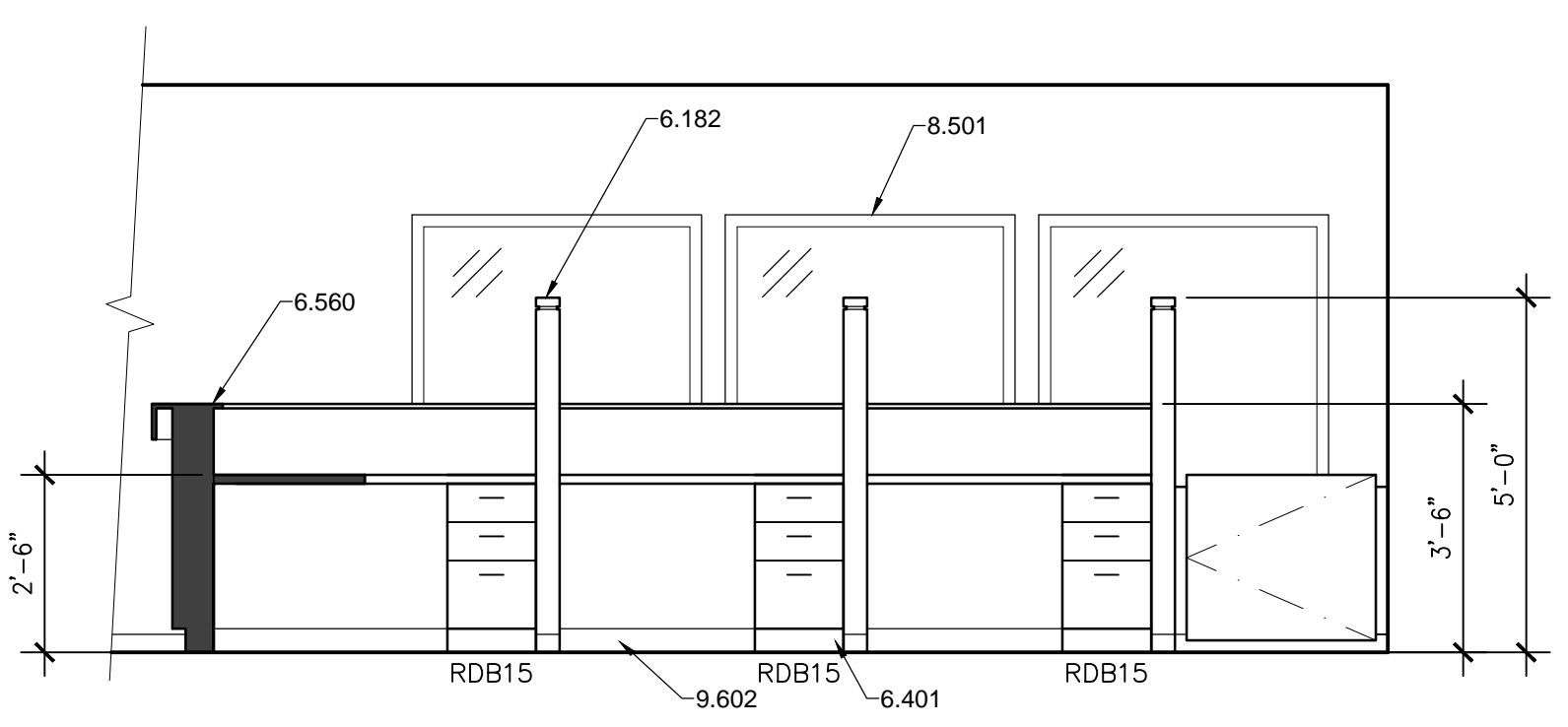
**E1 EXOTIC HOLD # 137**  
 3/8" = 1'-0"



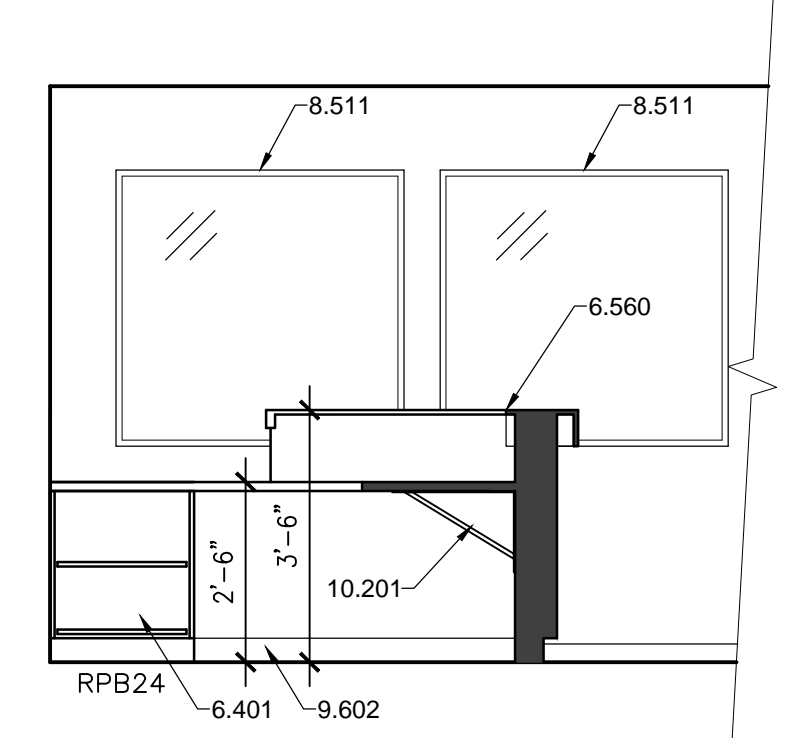
**E3 FELINE HOLD # 148**  
 3/8" = 1'-0"



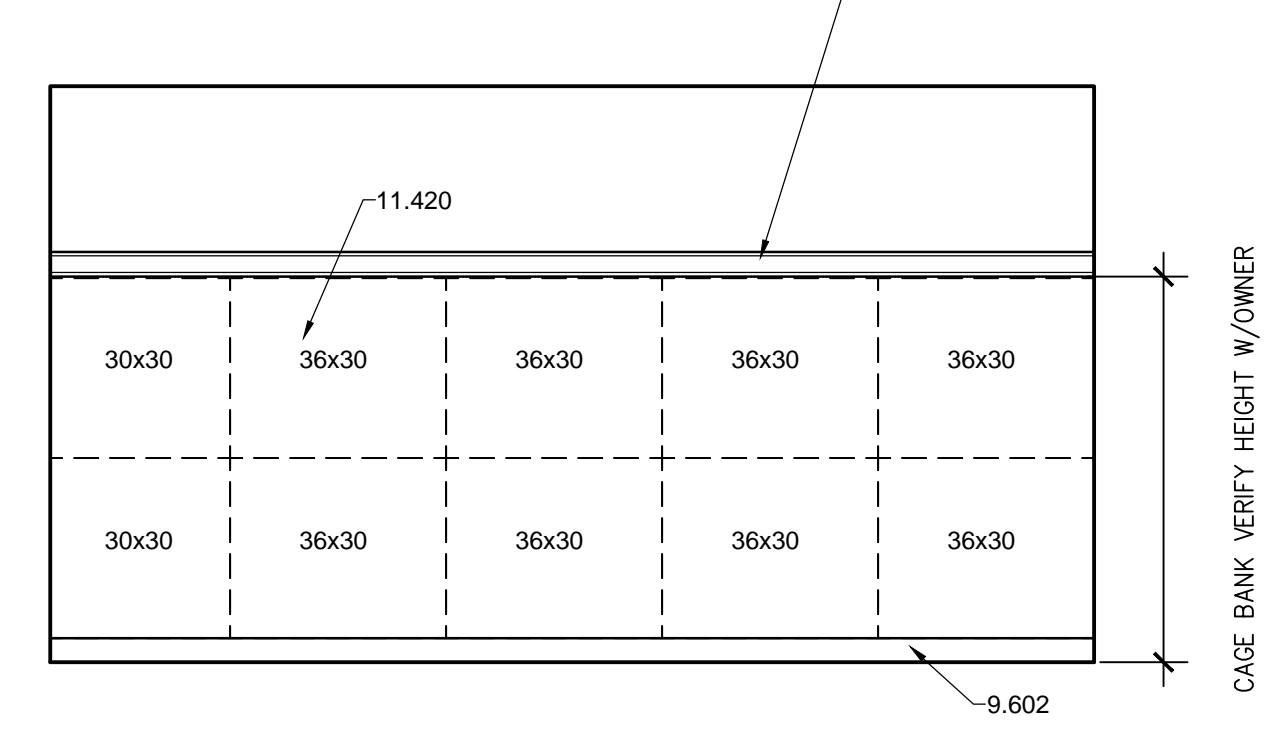
**E6 INTAKE EXAM # 152**  
 3/8" = 1'-0"



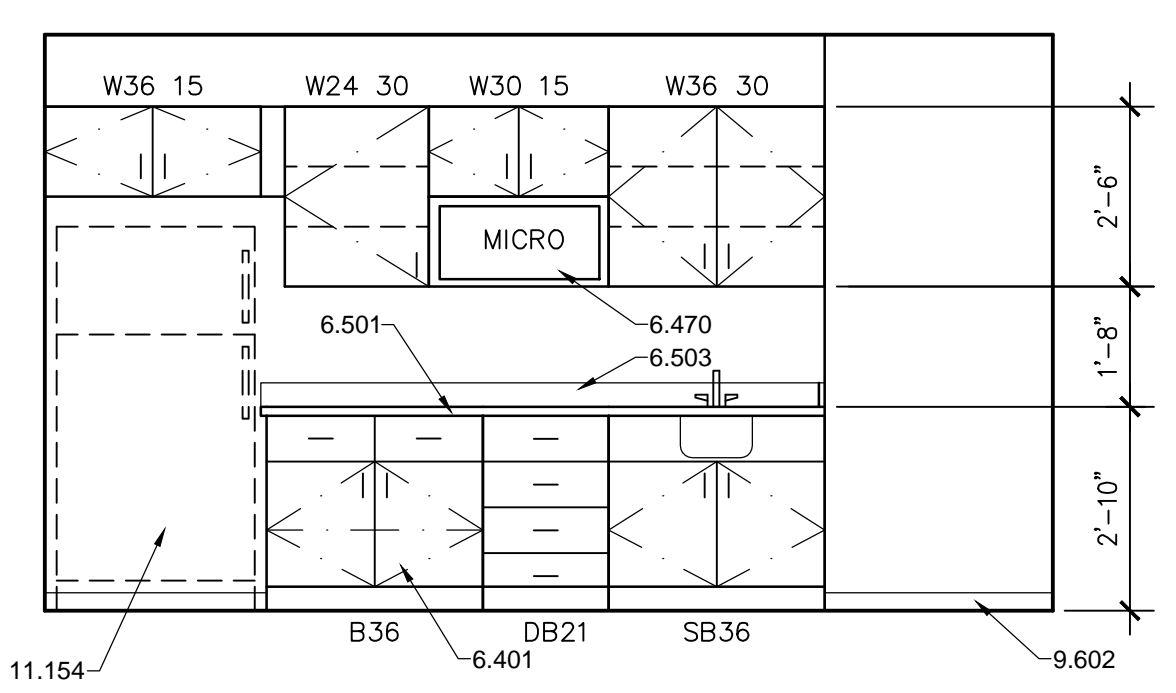
**C1 SURRENDER - RECEPTION # 126**  
 3/8" = 1'-0"



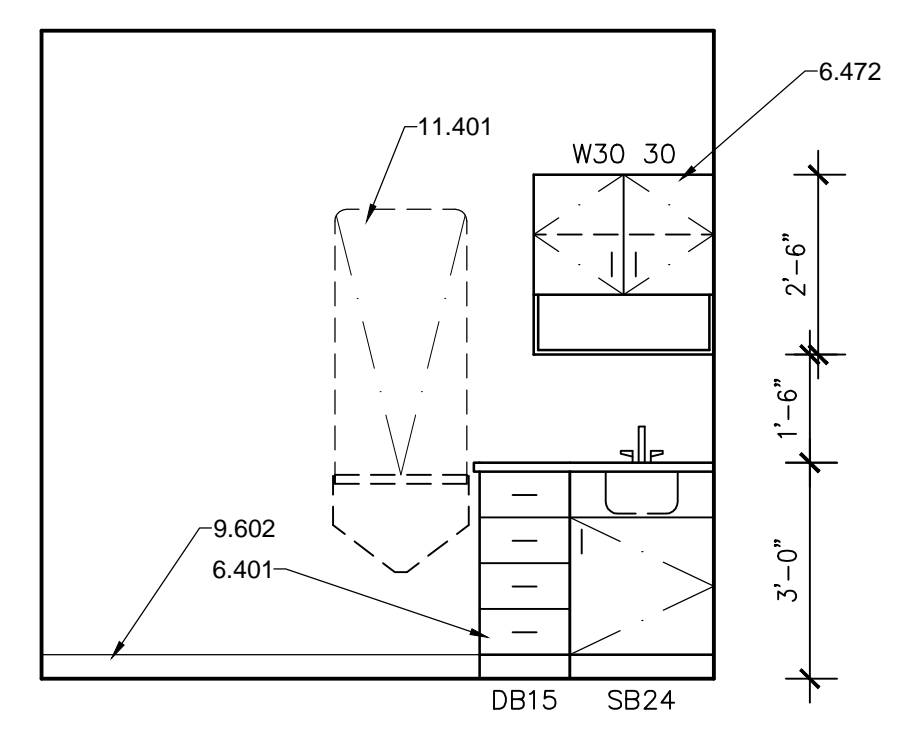
**C5 SURRENDER # 126**  
 3/8" = 1'-0"



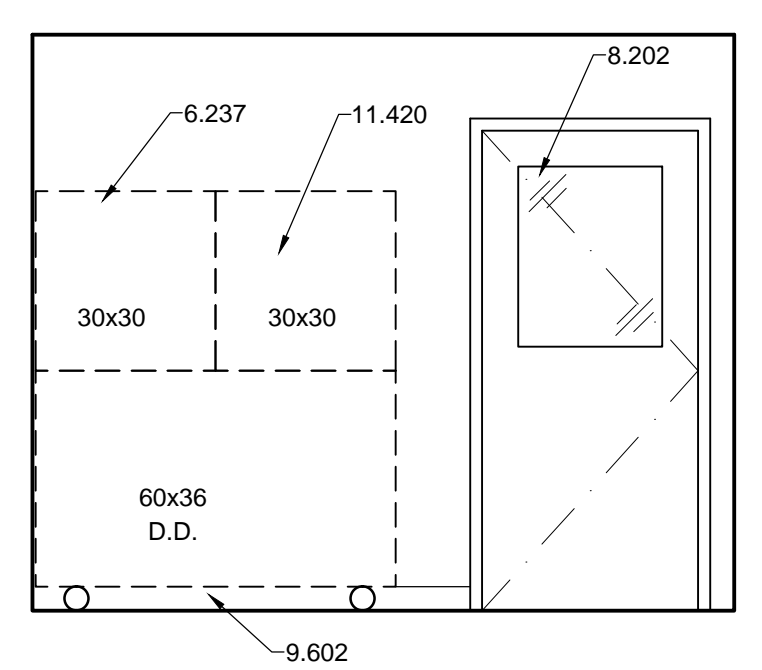
**C7 FERAL CAT # 139**  
 3/8" = 1'-0"



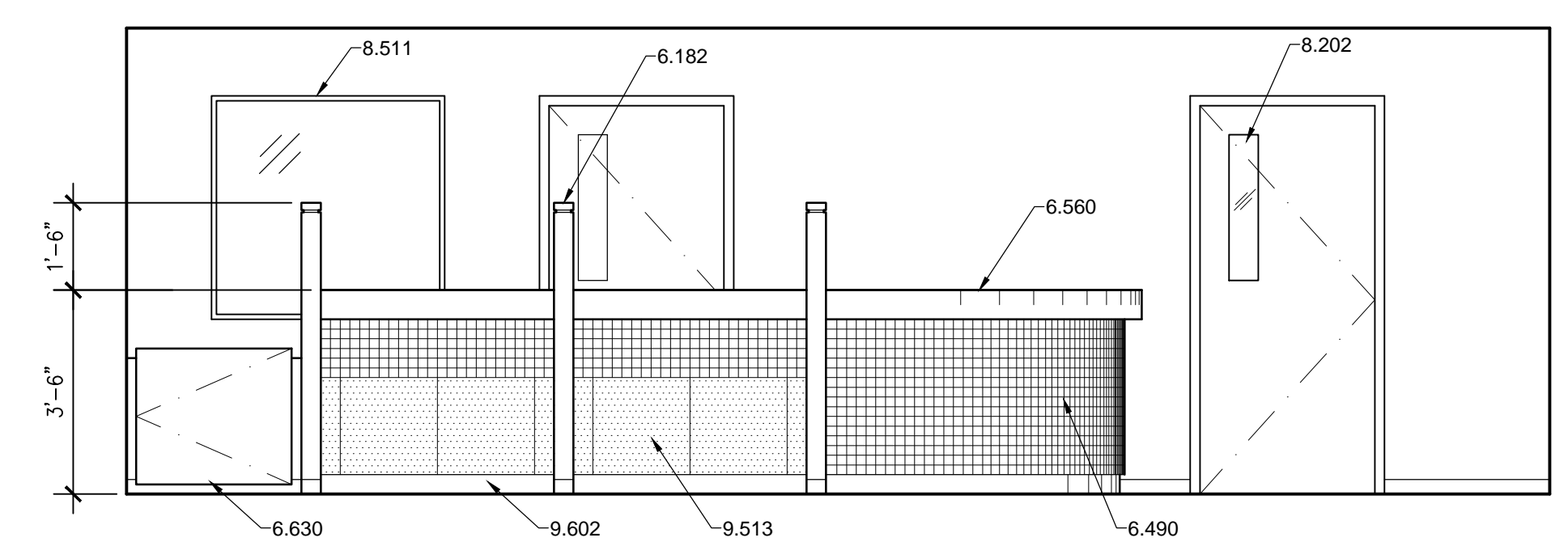
**A1 CONFERENCE / TRAINING # 132**  
 3/8" = 1'-0"



**A4 SURRENDER EXAM # 131**  
 3/8" = 1'-0"



**A5 SURRENDER EXAM # 131**  
 3/8" = 1'-0"



**A8 SURRENDER - LOBBY # 128**  
 3/8" = 1'-0"

### REFERENCE KEYNOTES

- DIVISION 04 - MASONRY  
 4.205 - 8" CONCRETE MASONRY UNIT  
 4.209 - SPLIT FACE CONCRETE MASONRY UNIT

- DIVISION 06 - WOOD AND PLASTICS  
 6.103 - 2X6 WOOD STUD  
 6.160 - WOOD TRUSS - SEE STRUCTURAL  
 6.161 - WOOD JOIST - SEE STRUCTURAL  
 6.163 - WOOD BEAM - SEE STRUCTURAL  
 6.171 - WOOD LEDGER - SEE STRUCTURAL  
 6.266 - EXPOSED WOOD TRUSS

- DIVISION 07 - THERMAL AND MOISTURE PROTECTION  
 7.106 - VAPOR BARRIER  
 7.204 - R-38 BATT INSULATION  
 7.220 - RIGID INSULATION  
 7.331 - METAL ROOF PANEL SYSTEM  
 7.361 - RIDGE VENT  
 7.511 - EPDM ROOFING: FELT BACK

- DIVISION 09 - FINISHES  
 9.701 - FINISHED CEILING

- DIVISION 15 - MECHANICAL  
 15.207 - EVAPORATIVE COOLER - SEE MECHANICAL

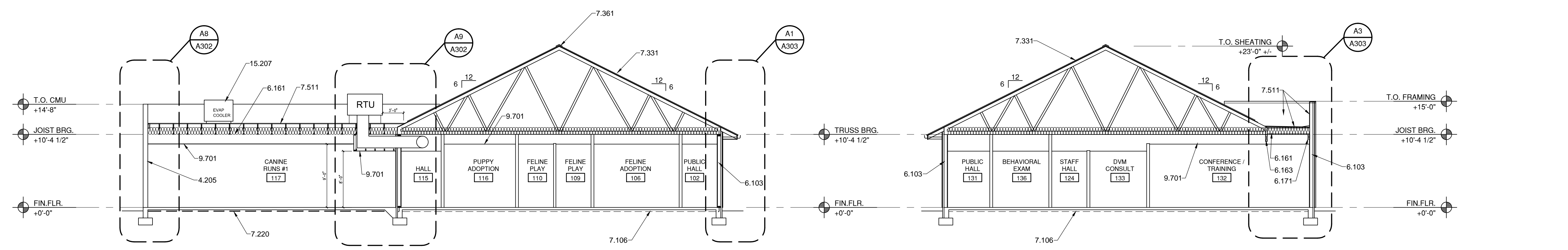
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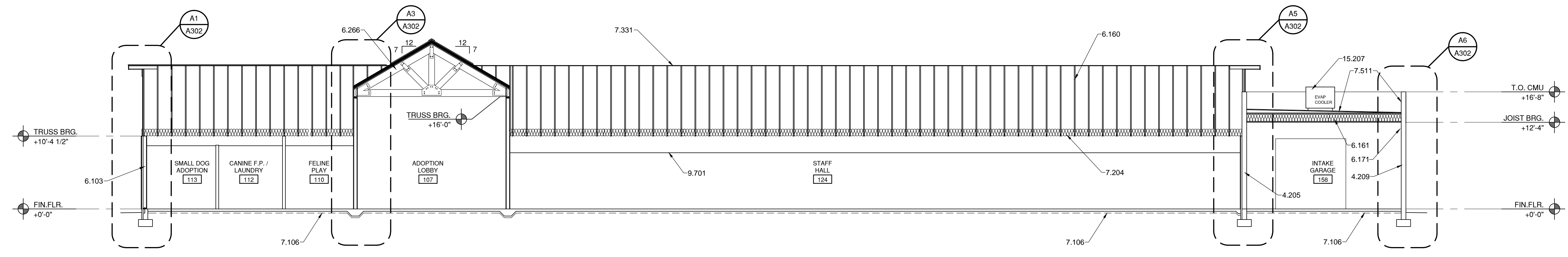


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**D2 BUILDING SECTION**  
 1/8" = 1'-0"

**D7 BUILDING SECTION**  
 1/8" = 1'-0"



**B2 BUILDING SECTION**  
 1/8" = 1'-0"

### BUILDING SECTIONS

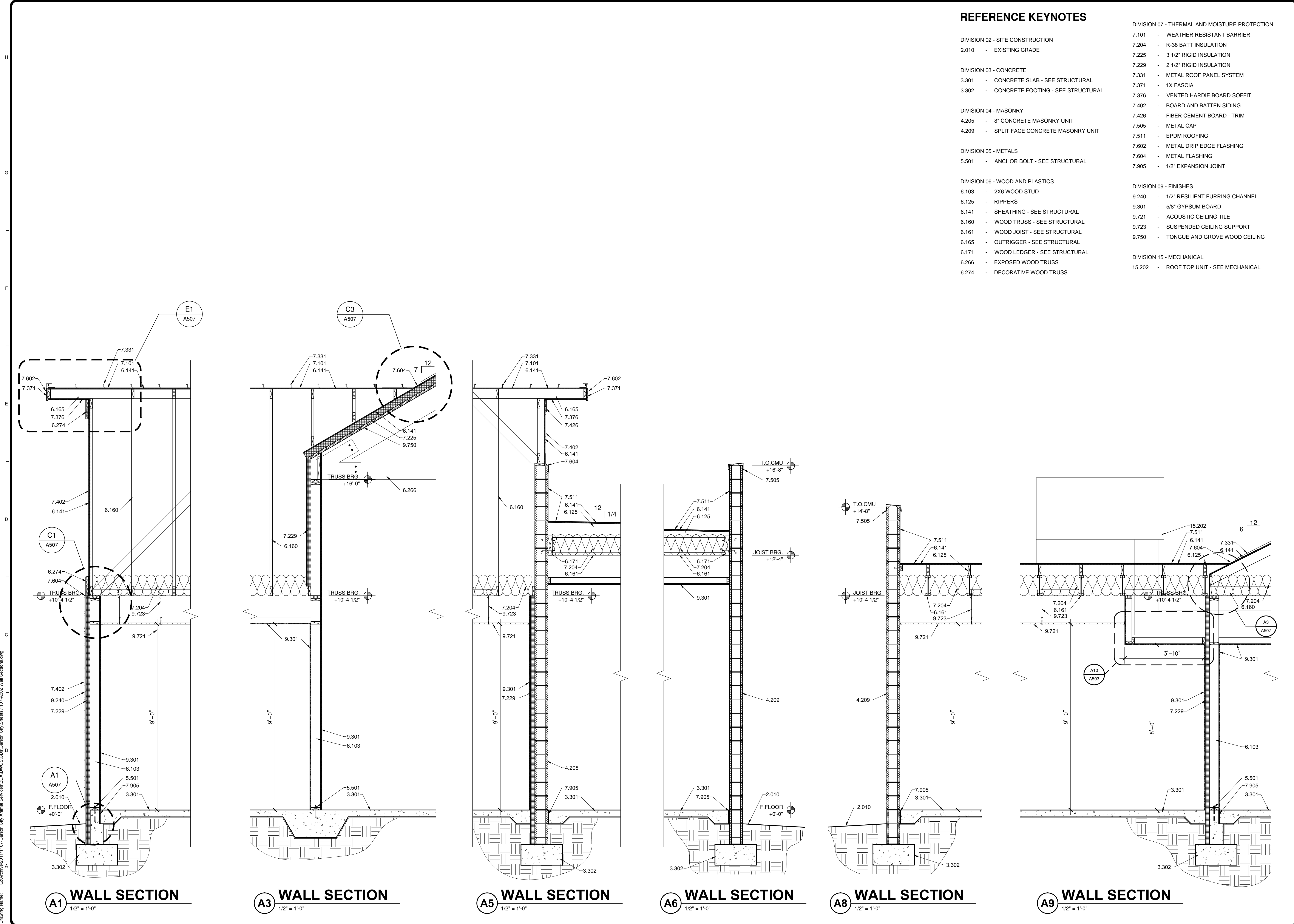
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REVIEWS	
INITIALS	BDA DSGN. REV.
-	BDA TECH REV.

CCAS  
 PROJECT NO.: 1107  
 DRAWN: JK  
 DATE: 2/27/2015

**A301**  
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**REFERENCE KEYNOTES**

DIVISION 02 - SITE CONSTRUCTION  
 2.010 - EXISTING GRADE

DIVISION 03 - CONCRETE  
 3.301 - CONCRETE SLAB - SEE STRUCTURAL  
 3.302 - CONCRETE FOOTING - SEE STRUCTURAL

DIVISION 04 - MASONRY  
 4.205 - 8" CONCRETE MASONRY UNIT  
 4.209 - SPLIT FACE CONCRETE MASONRY UNIT

DIVISION 05 - METALS  
 5.501 - ANCHOR BOLT - SEE STRUCTURAL

DIVISION 06 - WOOD AND PLASTICS  
 6.103 - 2X6 WOOD STUD  
 6.125 - RIPPERS  
 6.141 - SHEATHING - SEE STRUCTURAL  
 6.160 - WOOD TRUSS - SEE STRUCTURAL  
 6.161 - WOOD JOIST - SEE STRUCTURAL  
 6.165 - OUTRIGGER - SEE STRUCTURAL  
 6.171 - WOOD LEDGER - SEE STRUCTURAL  
 6.266 - EXPOSED WOOD TRUSS  
 6.274 - DECORATIVE WOOD TRUSS

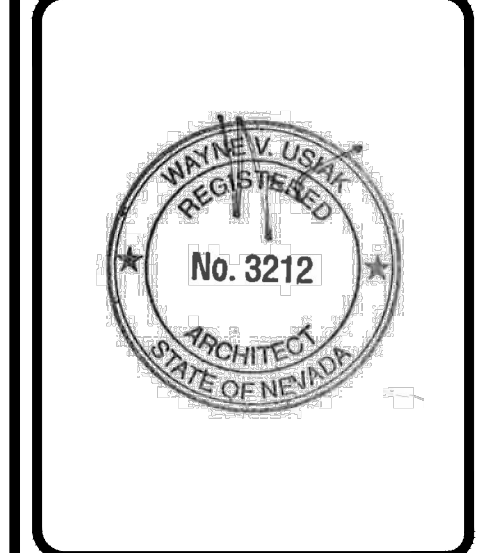
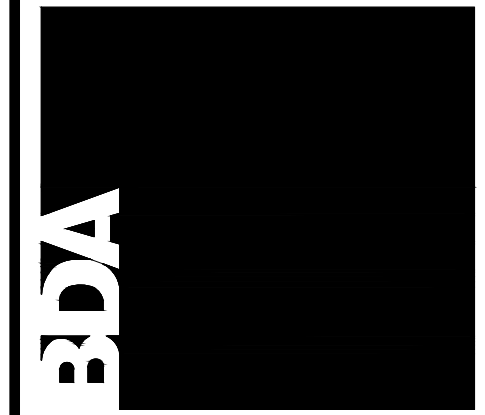
DIVISION 07 - THERMAL AND MOISTURE PROTECTION  
 7.101 - WEATHER RESISTANT BARRIER  
 7.204 - R-38 BATT INSULATION  
 7.225 - 3 1/2" RIGID INSULATION  
 7.229 - 2 1/2" RIGID INSULATION  
 7.331 - METAL ROOF PANEL SYSTEM  
 7.371 - 1X FASCIA  
 7.376 - VENTED HARDIE BOARD SOFFIT  
 7.402 - BOARD AND BATTEN SIDING  
 7.426 - FIBER CEMENT BOARD - TRIM  
 7.505 - METAL CAP  
 7.511 - EPDM ROOFING  
 7.602 - METAL DRIP EDGE FLASHING  
 7.604 - METAL FLASHING  
 7.905 - 1/2" EXPANSION JOINT

DIVISION 09 - FINISHES  
 9.240 - 1/2" RESILIENT FURRING CHANNEL  
 9.301 - 5/8" GYPSUM BOARD  
 9.721 - ACOUSTIC CEILING TILE  
 9.723 - SUSPENDED CEILING SUPPORT  
 9.750 - TONGUE AND GROOVE WOOD CEILING

DIVISION 15 - MECHANICAL  
 15.202 - ROOF TOP UNIT - SEE MECHANICAL

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**WALL SECTIONS**

REV.#	DATE	COMMENTS

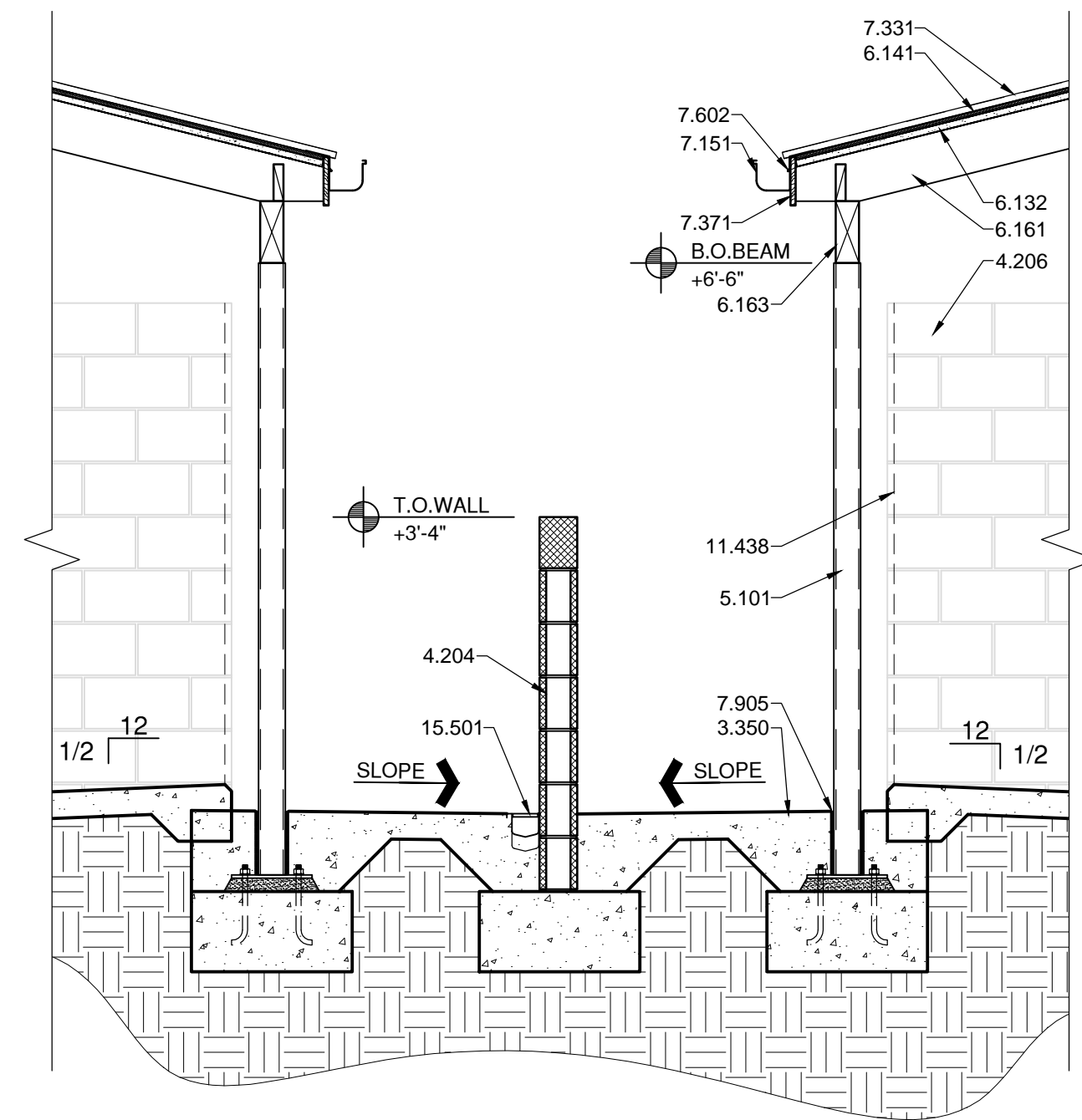
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INITIALS	REVISION
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	BDA TECH. REV.

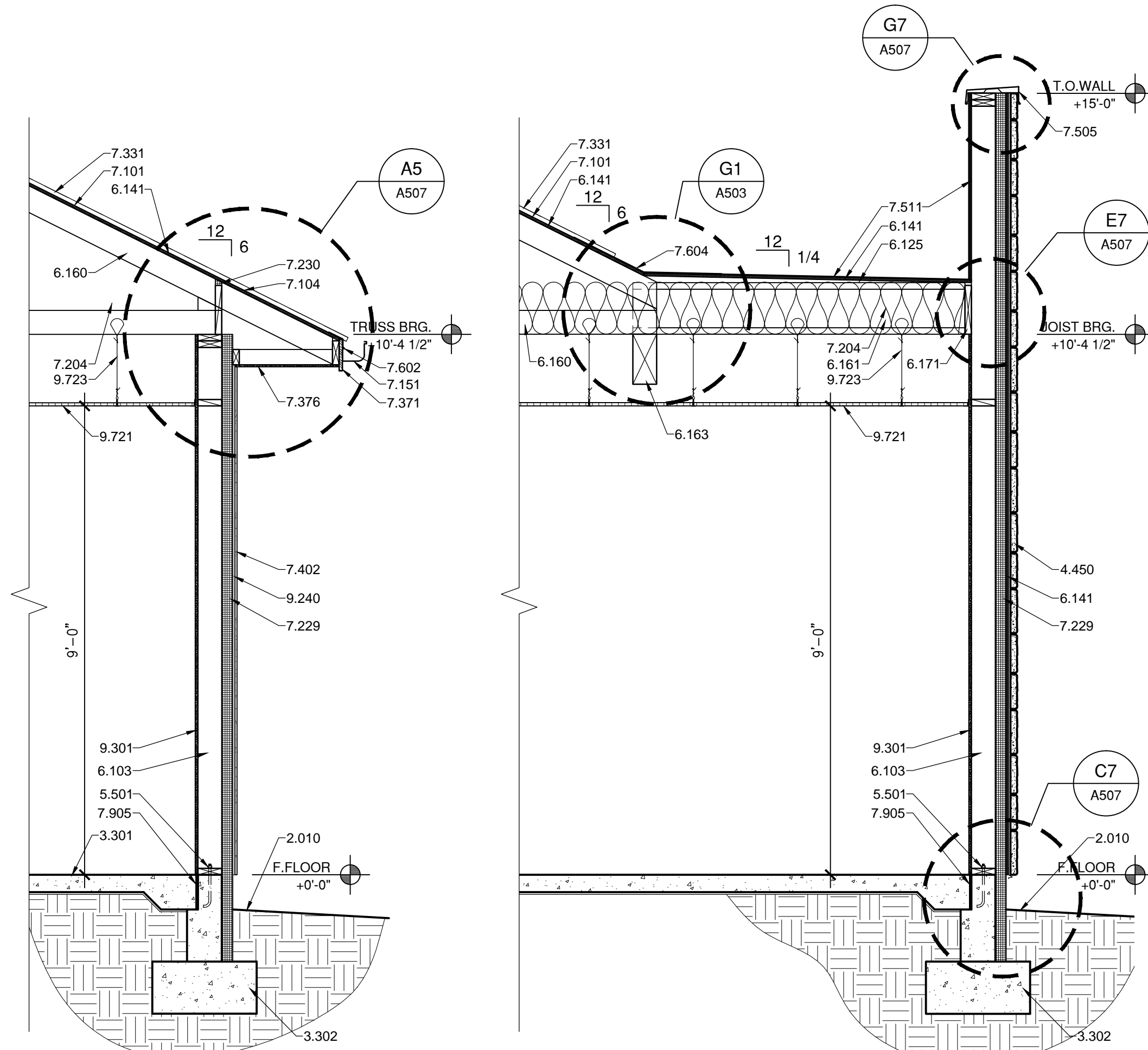
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**A302**  
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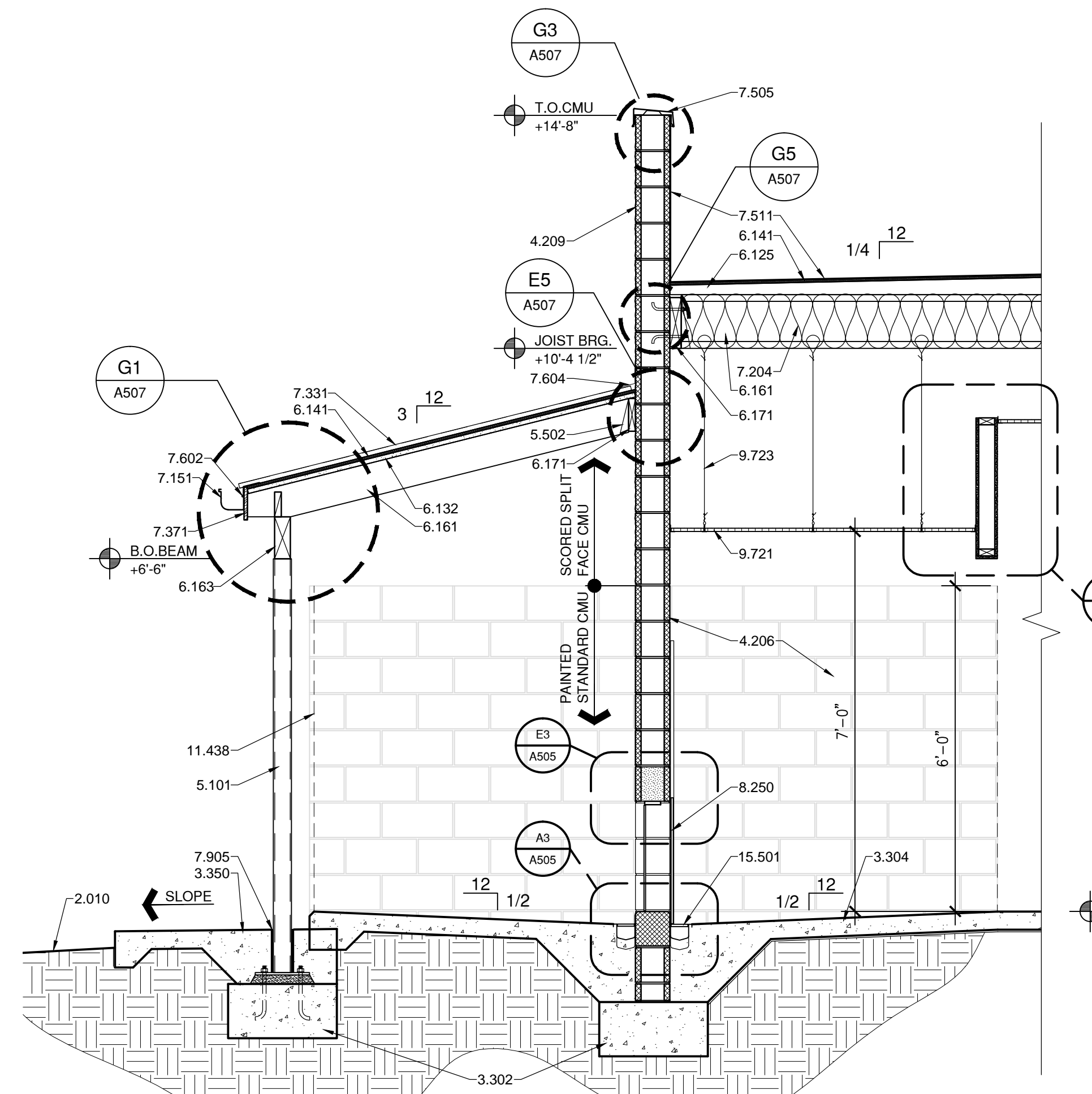


**E1 WALL SECTION**  
 1/2" = 1'-0"

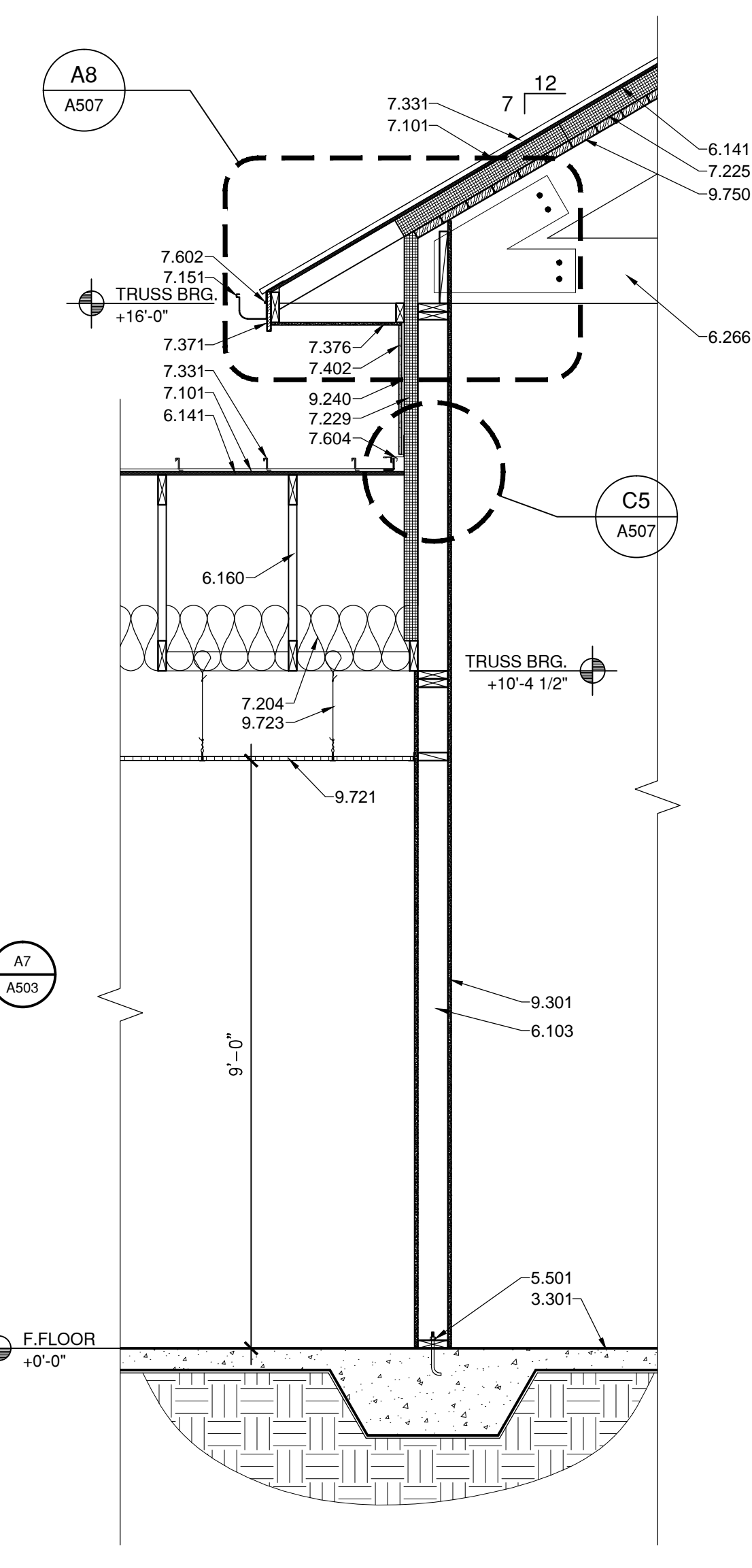


**A1 WALL SECTION**  
 1/2" = 1'-0"

**A3 WALL SECTION**  
 1/2" = 1'-0"



**A5 WALL SECTION**  
 1/2" = 1'-0"



**A9 WALL SECTION**  
 1/2" = 1'-0"

**REFERENCE KEYNOTES**

DIVISION 02 - SITE CONSTRUCTION  
 2.010 - EXISTING GRADE

DIVISION 03 - CONCRETE  
 3.301 - CONCRETE SLAB - SEE STRUCTURAL  
 3.302 - CONCRETE FOOTING - SEE STRUCTURAL  
 3.304 - SLOPE FLOOR TO DRAIN  
 3.350 - CONCRETE SIDEWALK

DIVISION 04 - MASONRY  
 4.204 - 6" PAINTED CONCRETE MASONRY UNIT  
 4.206 - 8" PAINTED CONCRETE MASONRY UNIT  
 4.209 - SCORED SPLIT FACE CONCRETE MASONRY UNIT  
 4.450 - MANUFACTURED STONE VENEER

DIVISION 05 - METALS  
 5.101 - STEEL COLUMN - SEE STRUCTURAL  
 5.501 - ANCHOR BOLT - SEE STRUCTURAL  
 5.502 - METAL HANGER

DIVISION 06 - WOOD AND PLASTICS  
 6.103 - 2X6 WOOD STUD  
 6.125 - RIPPERS  
 6.132 - TECTUM PANEL  
 6.141 - SHEATHING - SEE STRUCTURAL  
 6.160 - WOOD TRUSS - SEE STRUCTURAL  
 6.161 - WOOD JOIST - SEE STRUCTURAL  
 6.163 - WOOD BEAM - SEE STRUCTURAL  
 6.171 - WOOD LEDGER - SEE STRUCTURAL  
 6.266 - EXPOSED WOOD TRUSS

DIVISION 07 - THERMAL AND MOISTURE PROTECTION  
 7.101 - WEATHER RESISTANT BARRIER  
 7.104 - ICE AND WATER SHIELD  
 7.151 - ROOF GUTTER  
 7.204 - R-38 BATT INSULATION  
 7.225 - 3 1/2" RIGID INSULATION  
 7.229 - 2 1/2" RIGID INSULATION  
 7.230 - CORAVENT  
 7.331 - METAL ROOF PANEL SYSTEM  
 7.371 - 1X FASCIA  
 7.376 - VENTED HARDIE BOARD SOFFIT  
 7.402 - BOARD AND BATTEN SIDING  
 7.505 - METAL CAP  
 7.511 - EPDM ROOFING  
 7.602 - METAL DRIP EDGE FLASHING  
 7.604 - METAL FLASHING  
 7.905 - 1/2" EXPANSION JOINT

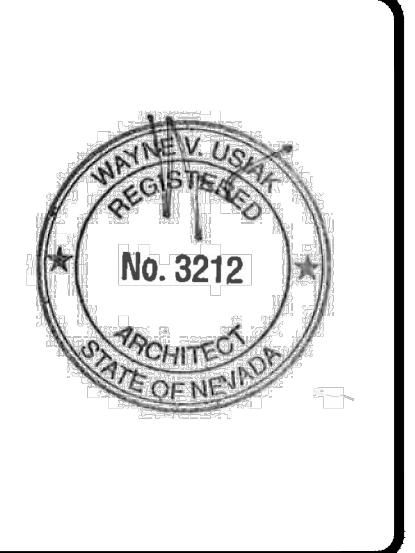
DIVISION 08 - OPENINGS  
 8.250 - GUILLotine DOOR

DIVISION 09 - FINISHES  
 9.240 - 1/2" RESILIENT FURRING CHANNEL  
 9.301 - 5/8" GYPSUM BOARD  
 9.721 - ACOUSTIC CEILING TILE  
 9.723 - SUSPENDED CEILING SUPPORT  
 9.750 - TONGUE AND GROVE WOOD CEILING

DIVISION 11 - EQUIPMENT  
 11.438 - SST. RUN GATE - O.F.C.I.

DIVISION 15 - MECHANICAL  
 15.501 - TRENCH DRAIN

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**WALL SECTIONS**

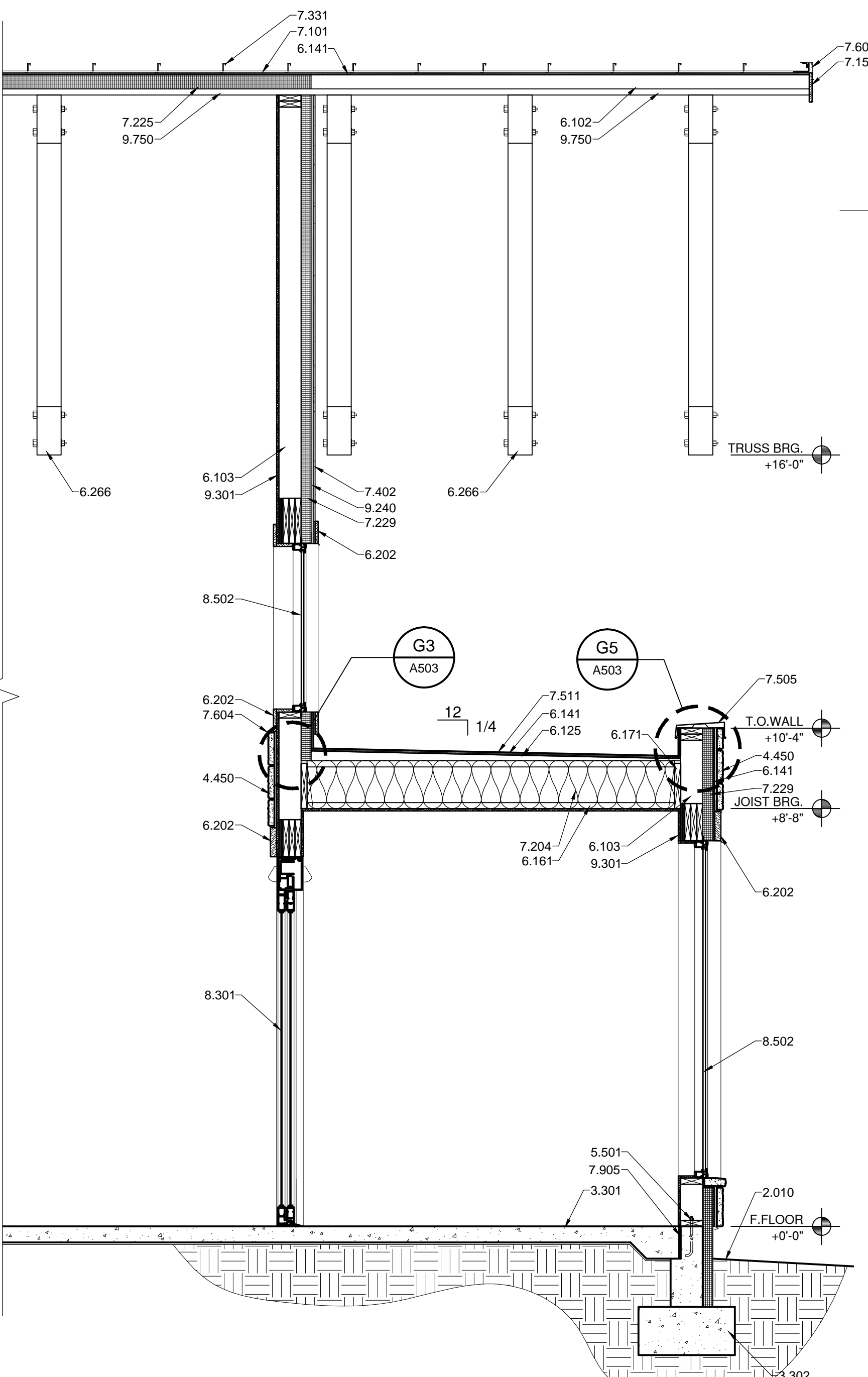
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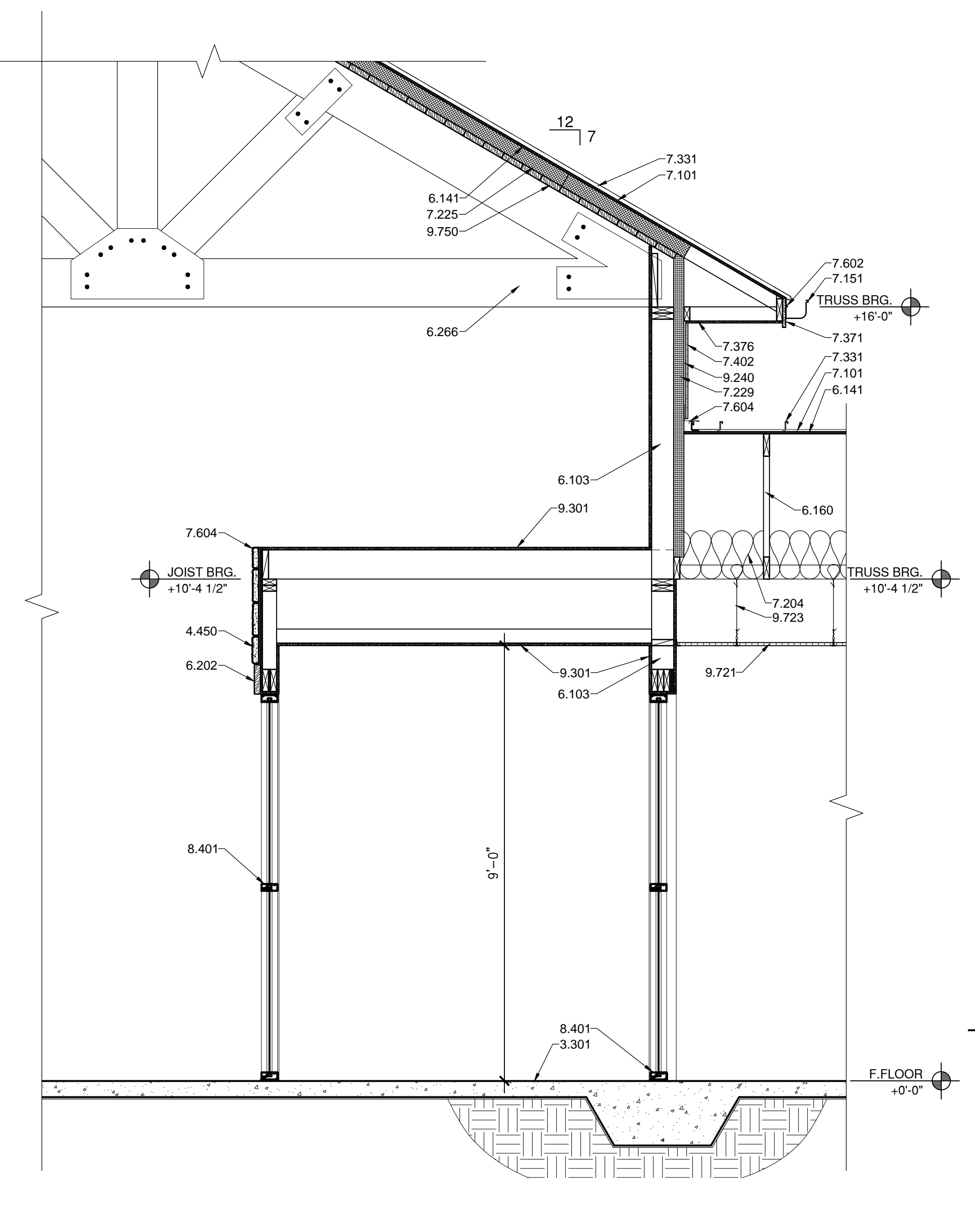
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 DATE: 2/27/2015

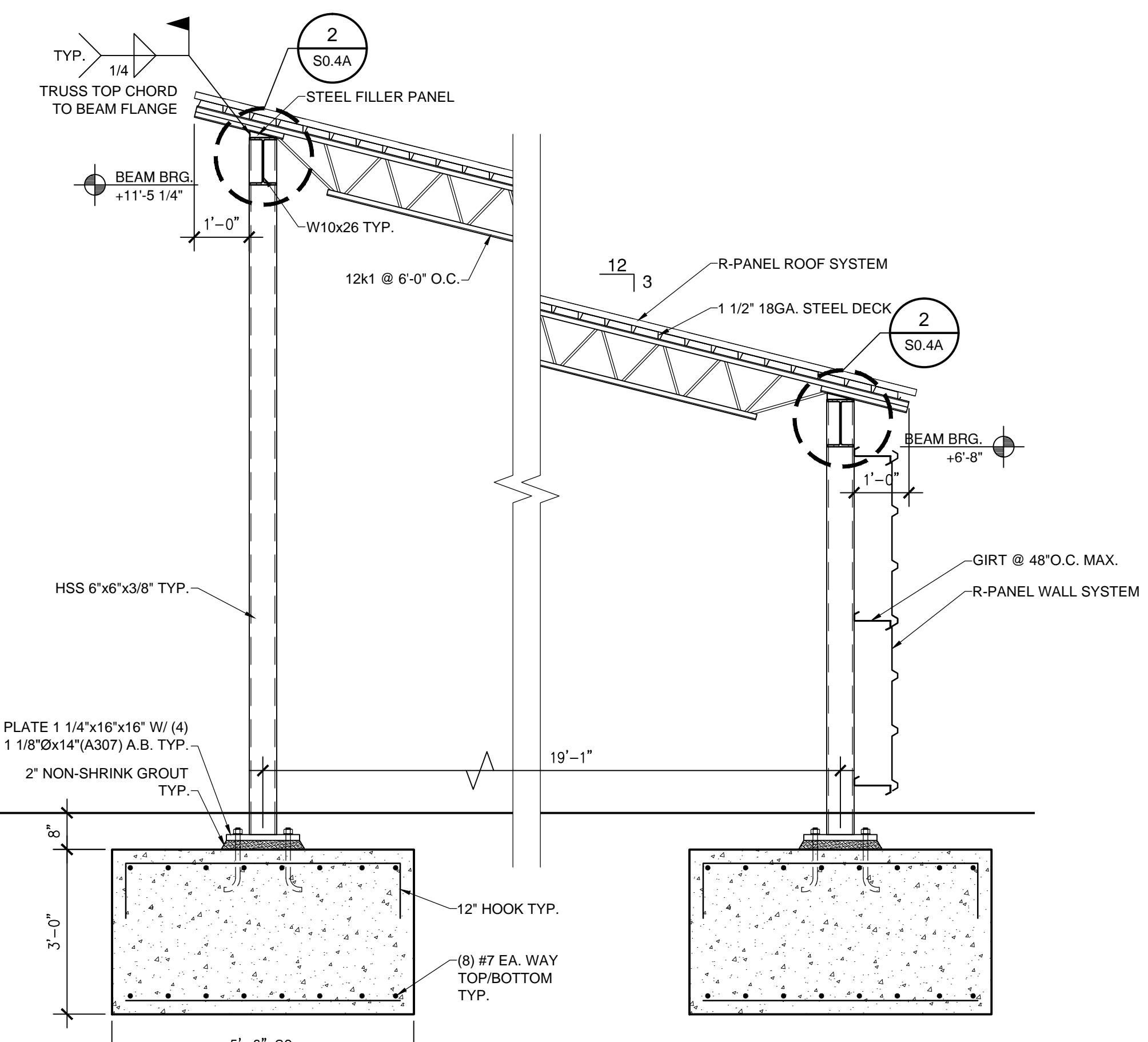
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**A1** WALL SECTION  
 1/2" = 1'-0"



**A4** WALL SECTION  
 1/2" = 1'-0"



**A8** WALL SECTION  
 1/2" = 1'-0"

**REFERENCE KEYNOTES**

DIVISION 02 - SITE CONSTRUCTION  
 2.010 - EXISTING GRADE

DIVISION 03 - CONCRETE  
 3.301 - CONCRETE SLAB - SEE STRUCTURAL  
 3.302 - CONCRETE FOOTING - SEE STRUCTURAL

DIVISION 04 - MASONRY  
 4.450 - MANUFACTURED STONE VENEER

DIVISION 05 - METALS  
 5.501 - ANCHOR BOLT - SEE STRUCTURAL

DIVISION 06 - WOOD AND PLASTICS  
 6.102 - 2X4 WOOD STUD  
 6.103 - 2X6 WOOD STUD  
 6.125 - RIPPERS  
 6.141 - SHEATHING - SEE STRUCTURAL  
 6.160 - WOOD TRUSS - SEE STRUCTURAL  
 6.161 - WOOD JOIST - SEE STRUCTURAL  
 6.171 - WOOD LEDGER - SEE STRUCTURAL  
 6.202 - ARCHITECTURAL TRIM  
 6.266 - EXPOSED WOOD TRUSS

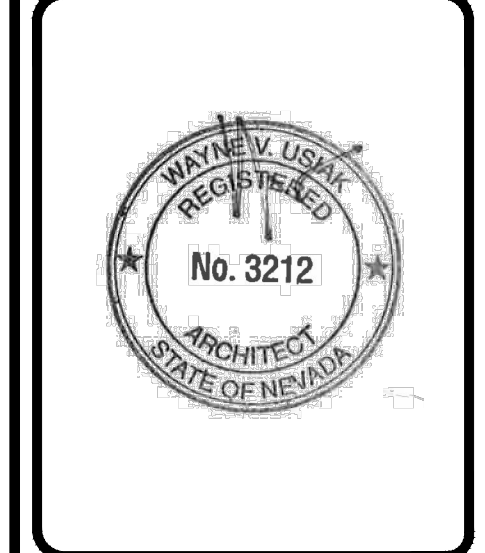
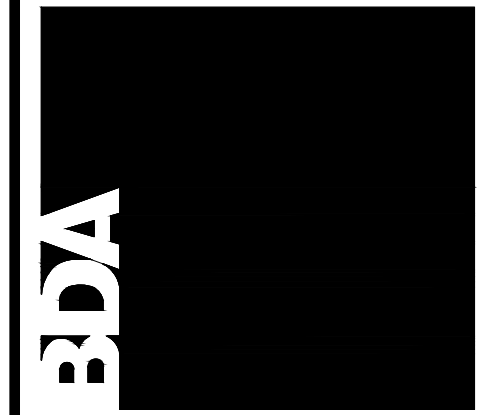
DIVISION 07 - THERMAL AND MOISTURE PROTECTION  
 7.101 - WEATHER RESISTANT BARRIER  
 7.151 - ROOF GUTTER  
 7.204 - R-38 BATT INSULATION  
 7.225 - 3 1/2" RIGID INSULATION  
 7.229 - 2 1/2" RIGID INSULATION  
 7.331 - METAL ROOF PANEL SYSTEM  
 7.371 - 1X FASCIA  
 7.376 - VENTED HARDIE BOARD SOFFIT  
 7.402 - BOARD AND BATTEN SIDING  
 7.505 - METAL CAP  
 7.511 - EPDM ROOFING  
 7.602 - METAL DRIP EDGE FLASHING  
 7.604 - METAL FLASHING  
 7.905 - 1/2" EXPANSION JOINT

DIVISION 08 - OPENINGS  
 8.301 - SLIDING DOOR AND FRAME AS SCHEDULED  
 8.401 - STOREFRONT SYSTEM  
 8.502 - EXTERIOR VINYL WINDOW AS SCHEDULED

DIVISION 09 - FINISHES  
 9.240 - 1/2" RESILIENT FURRING CHANNEL  
 9.301 - 5/8" GYPSUM BOARD  
 9.721 - ACOUSTIC CEILING TILE  
 9.723 - SUSPENDED CEILING SUPPORT  
 9.750 - TONGUE AND GROOVE WOOD CEILING

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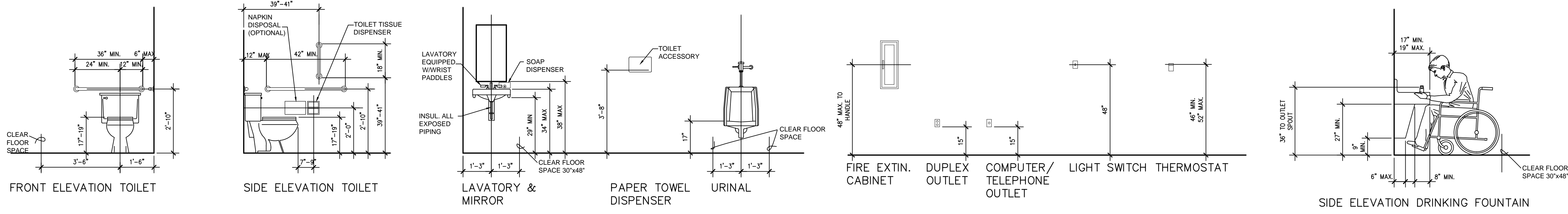
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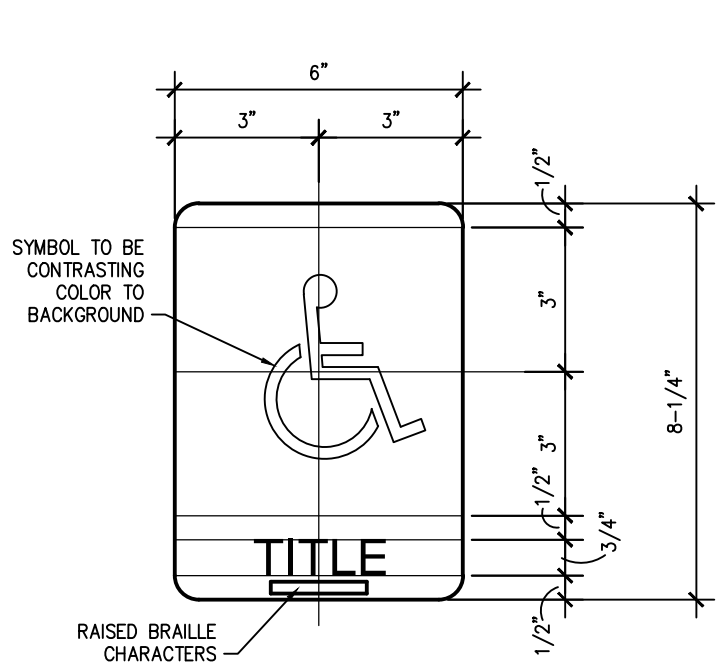
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-	BDA DSGN. REV.
-	BDA TECH. REV.

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 DATE: 2/27/2015

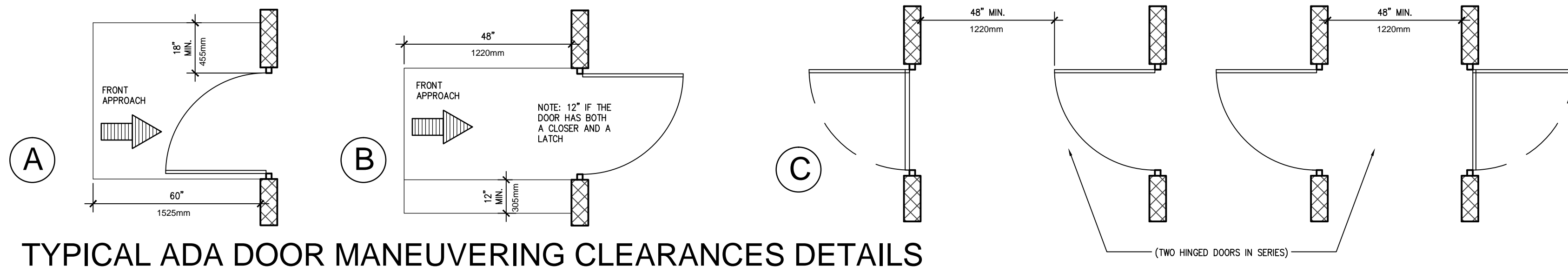
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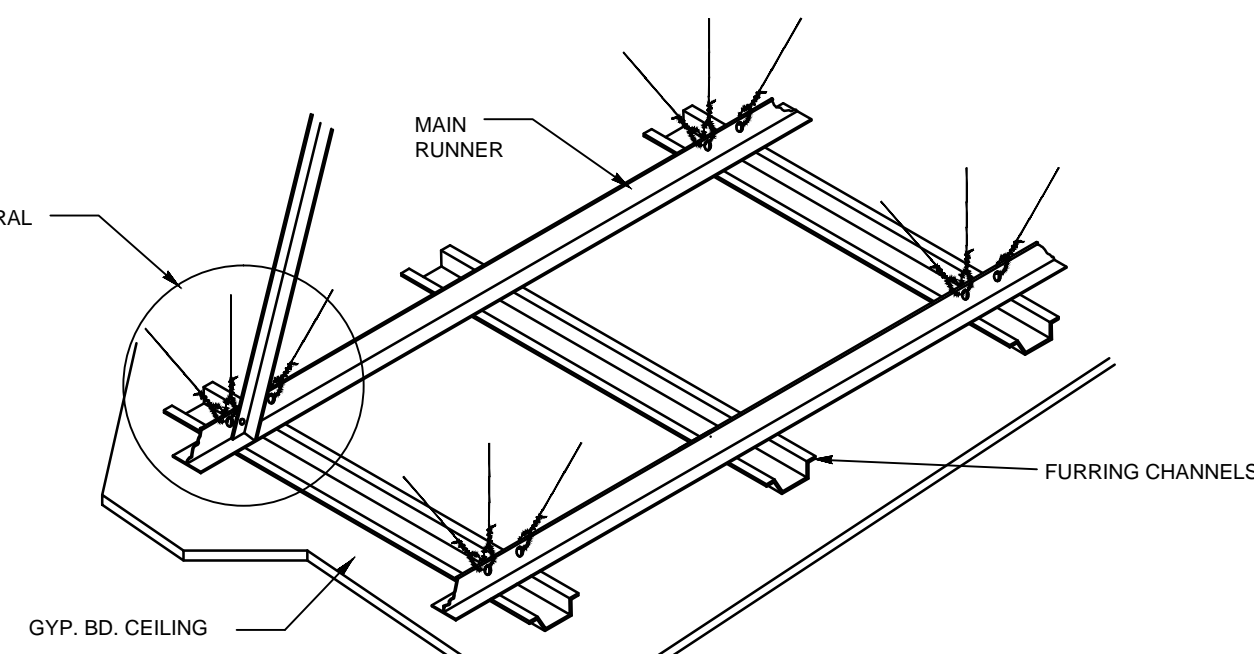
**TYPICAL ADA RESTROOM AND MECHANISM MOUNTING HEIGHTS**



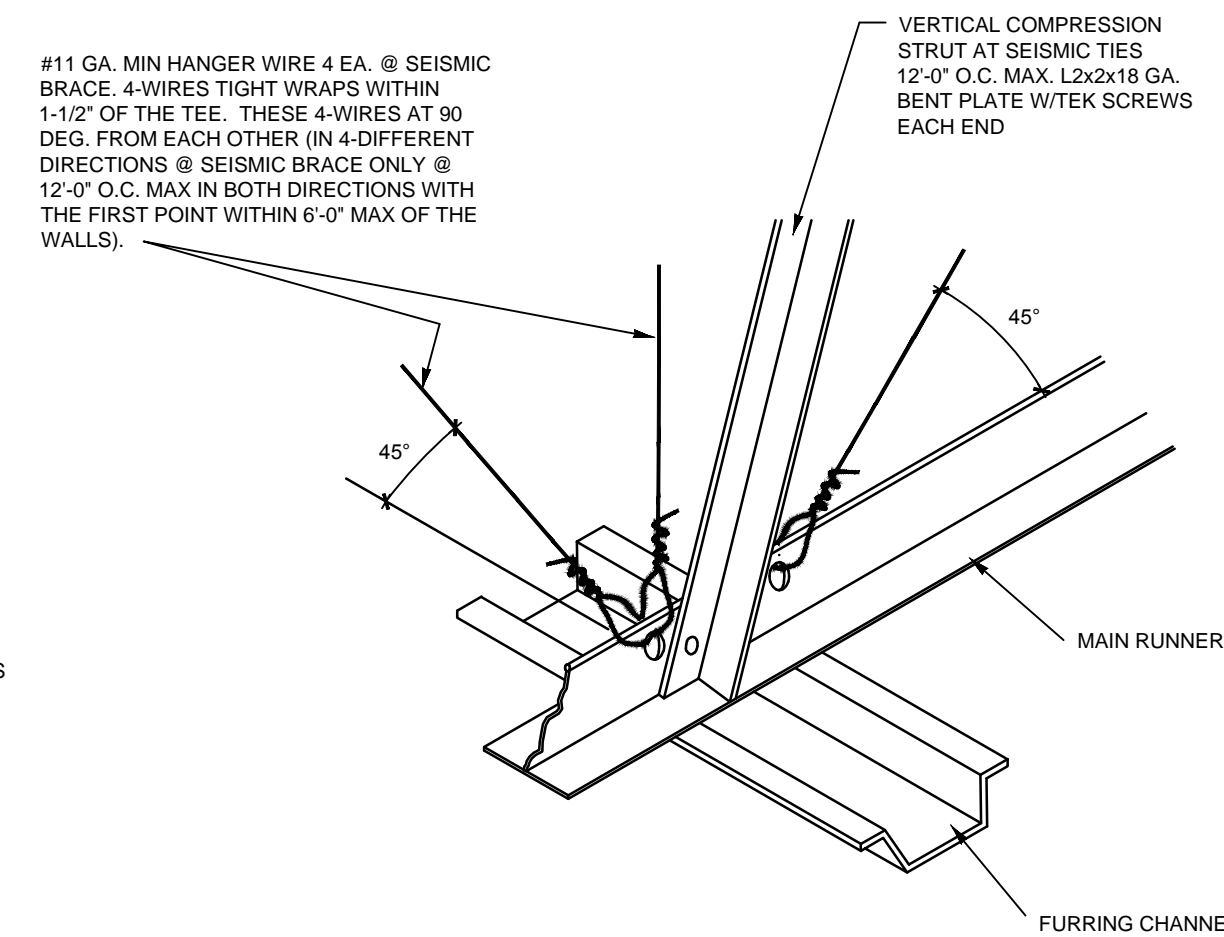
**TYP. INT. SYMBOL SIGN**



**TYPICAL ADA DOOR MANEUVERING CLEARANCES DETAILS**

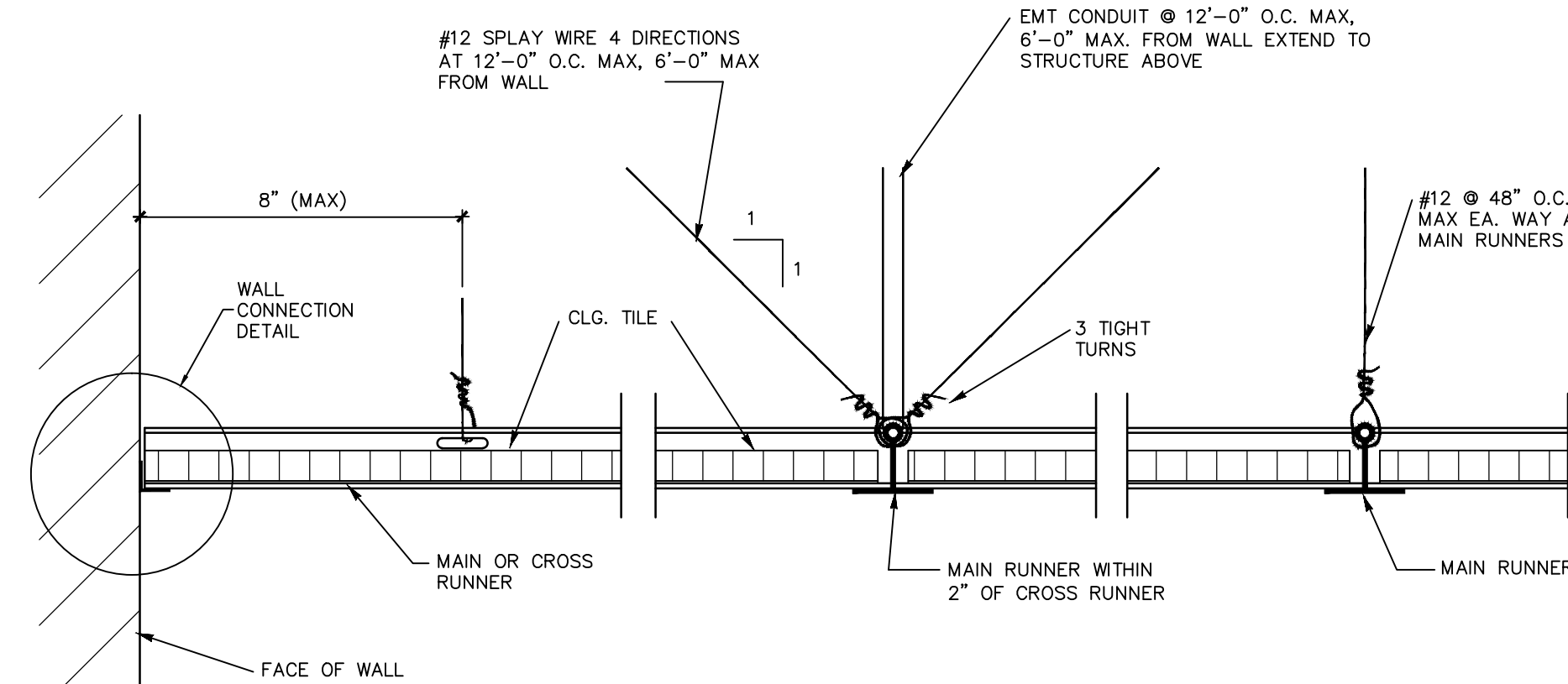


**TYPICAL SUSPENDED GYP. BD. BRACING DETAIL**

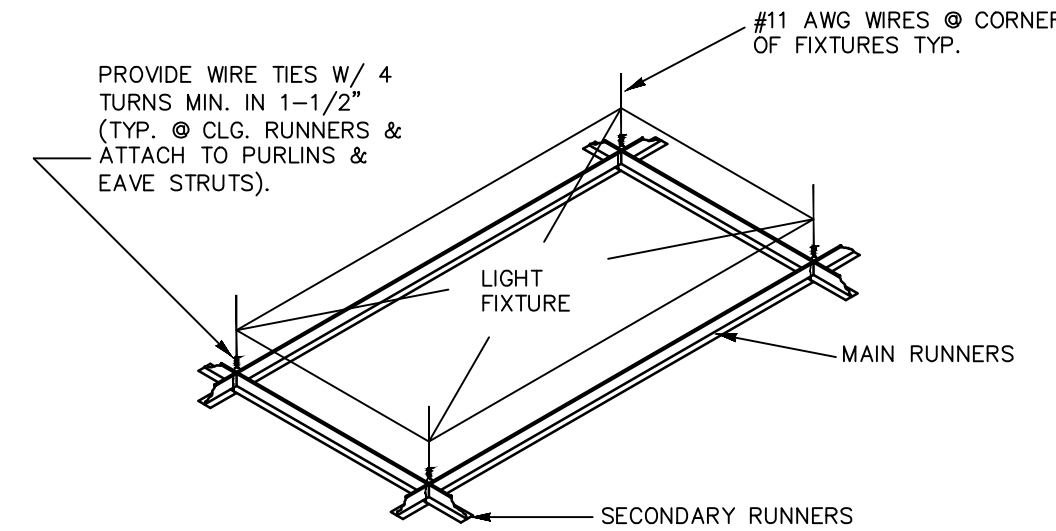


**LATERAL BRACING DETAIL**

N.T.S.

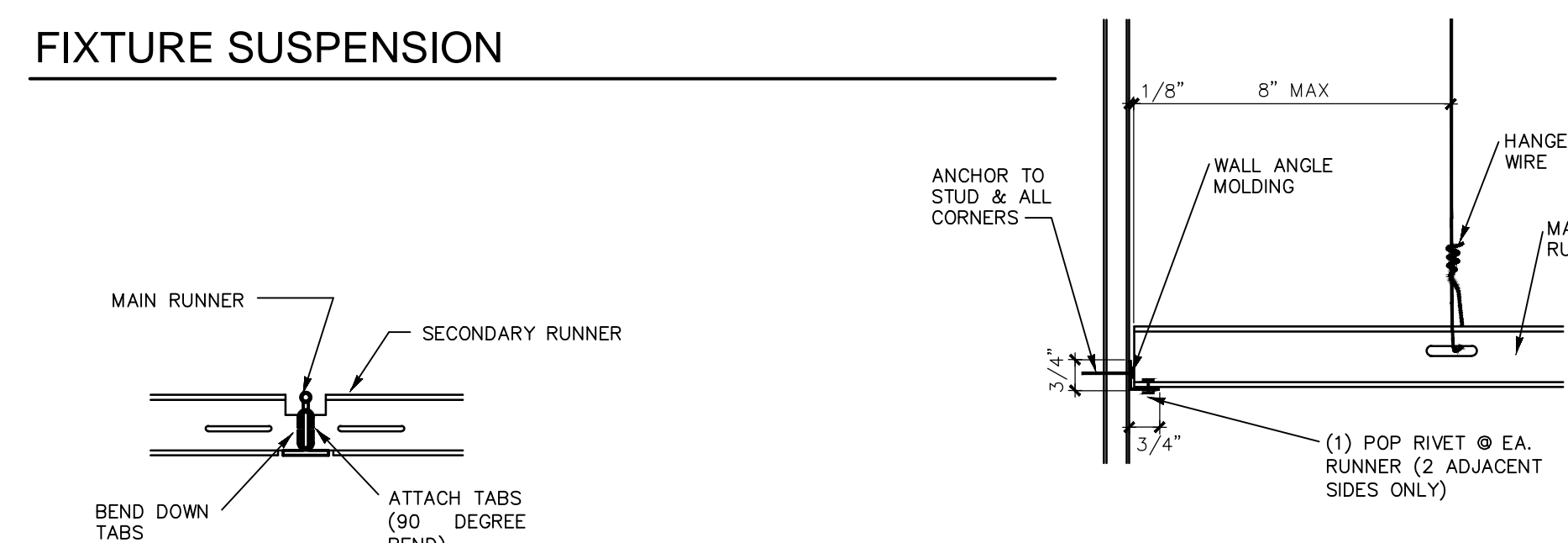


**SUSPENDED CEILING**

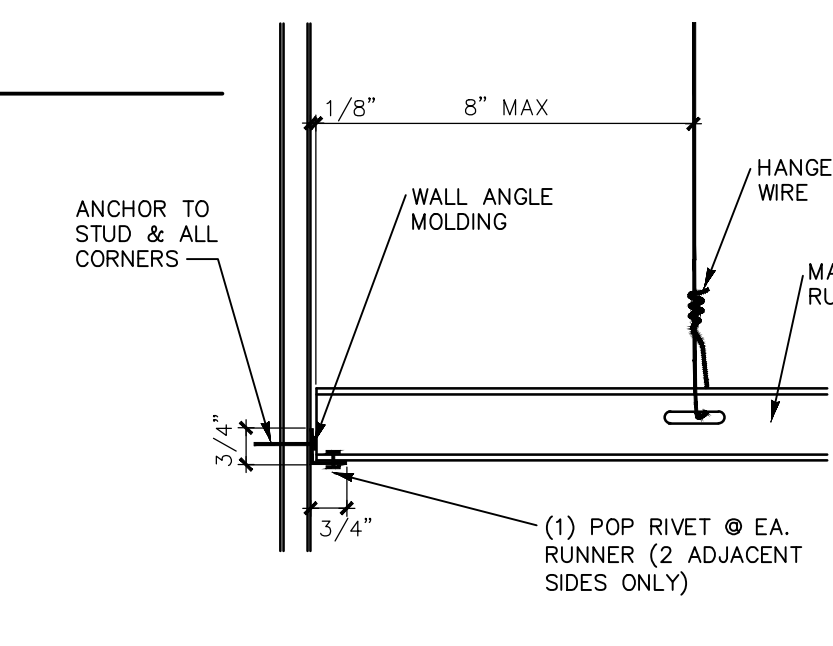


**FIXTURE SUSPENSION**

EMT SIZE (NOMINAL)	LENGTH (L/r ≤ 200)
1/2"	≤ 3'-10"
3/4"	≤ 5'-0"
1"	≤ 6'-6"
1 1/4"	≤ 8'-6"
1 1/2"	≤ 9'-10"

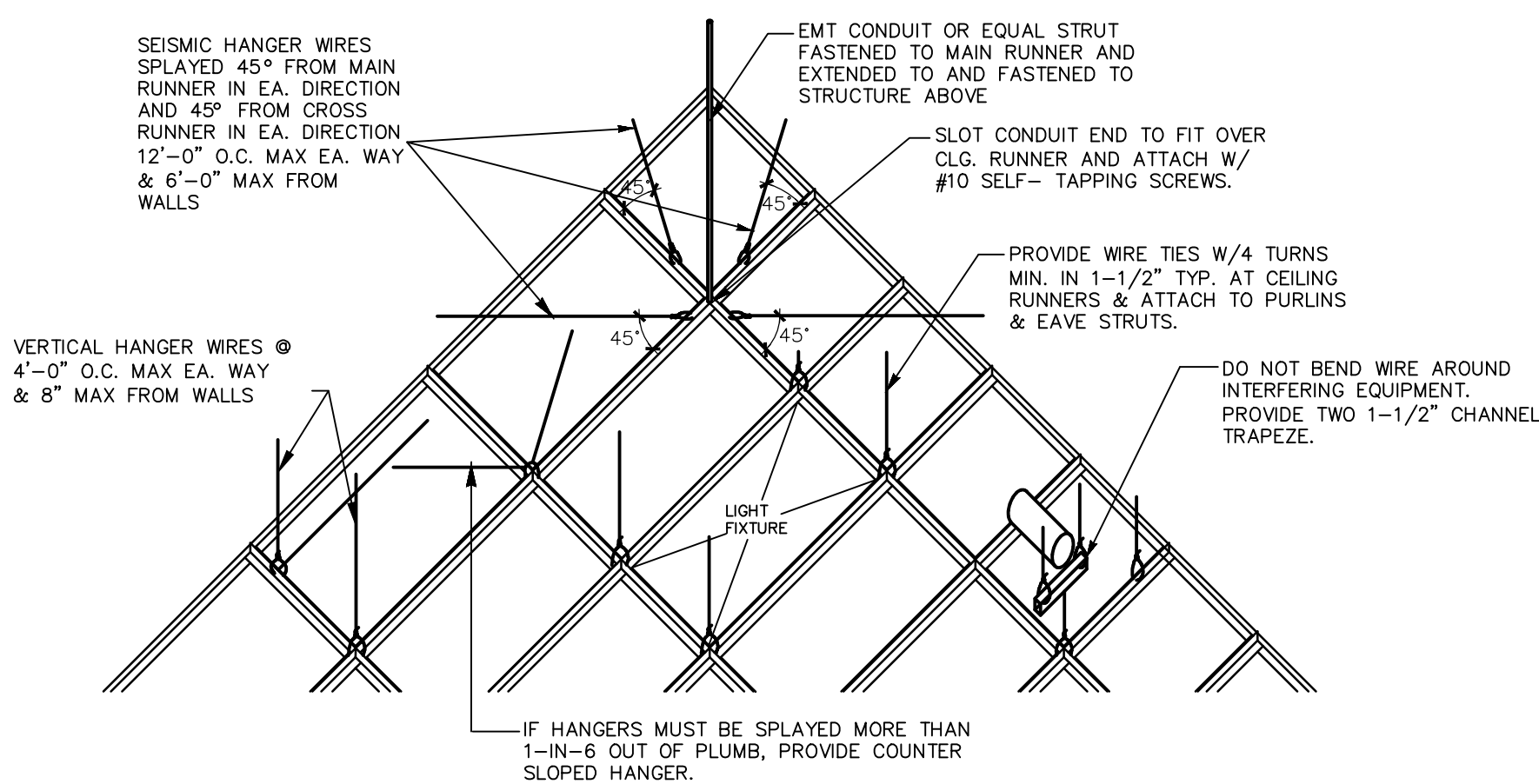


**RUNNER ATTACHMENT**



**T-BAR MAIN/CROSS MEMBER TO WALL CONNECTION**

N.T.S.



**TYPICAL REINFORCED SUSPENDED CEILING BRACING DETAIL**

N.T.S.

**GENERAL NOTES:**

- IF THERE ARE ANY CONFLICTS BETWEEN INFORMATION PROVIDED ON THIS SHEET AND INFORMATION PROVIDED ON OTHER CONTRACT DOCUMENTS, THE ARCHITECT IS TO BE NOTIFIED IMMEDIATELY.
- THESE ARE TO BE CONSIDERED MINIMUM REQUIREMENTS. LOCAL ORDINANCES MAY HAVE REQUIREMENTS CONTRADICTING INFORMATION CONTAINED ON THIS SHEET. IF THIS IS THE CASE, THE ARCHITECT IS TO BE NOTIFIED IMMEDIATELY. IN ANY CASE, THE LOCAL ORDINANCE REQUIREMENTS APPLY.
- SEISMIC BRACING REQUIREMENTS AND DETAILS ARE BASED ON THE INTERNATIONAL BUILDING CODE. FOR JURISDICTIONS NOT COVERED BY THE IBC, LOCAL REQUIREMENTS WILL APPLY.

**DOORS:**

CLEAR WIDTH: DOORWAY SHALL HAVE A CLEAR OPENING OF 32" (815mm) MINIMUM WITH DOOR OPEN 90 DEG. CLEAR OPENING SHALL BE MEASURED BETWEEN THE FACE OF DOOR AND STOP (ANSI 4.13.5)

MANEUVERING CLEARANCES AT DOORS: FRONT APPROACHES TO PULL SIDE OF SWINGING DOORS SHALL HAVE MANEUVERING SPACE THAT EXTENDS 18" (455mm) MINIMUM BEYOND THE LATCH SIDE OF THE DOOR AND 60" (1525mm) MINIMUM PERPENDICULAR TO THE DOORWAY, SEE DTL. A THIS SHEET. (ANSI 4.13.6.1)

FRONT APPROACHES TO PUSH SIDE OF SWINGING DOORS, EQUIPPED WITH BOTH CLOSER AND LATCH, SHALL HAVE MANEUVERING SPACE THAT EXTENDS 12" (305mm) MINIMUM BEYOND THE LATCH SIDE OF THE DOOR AND 48" (1220mm) MINIMUM PERPENDICULAR TO THE DOORWAY, SEE DTL B THIS SHEET. (ANSI 4.13.6.2)

FRONT APPROACHES TO PUSH SIDE OF SWINGING DOORS, NOT EQUIPPED WITH LATCH AND CLOSER, SHALL HAVE MANEUVERING SPACE THAT IS THE SAME WIDTH AS DOOR OPENING AND EXTENDS 48" (1220mm) MINIMUM PERPENDICULAR TO THE DOORWAY, SEE DTL B THIS SHEET. (ANSI 4.13.6.3)

TWO DOORS IN SERIES: SPACE BETWEEN TWO HINGED OR PIVOTED DOORS IN SERIES SHALL BE 48" (1220mm) PLUS THE WIDTH OF ANY DOOR SWINGING INTO THE SPACE. DOORS IN SERIES SHALL SWING EITHER IN SAME DIRECTION OR AWAY FROM SPACE BETWEEN DOORS, SEE DTL C THIS SHEET. (ANSI 4.13.7)

THRESHOLDS AT DOORWAYS: THRESHOLDS, IF PROVIDED, AT DOORWAYS SHALL BE 1/2" (13mm) HIGH MAXIMUM EXCEPT THAT THRESHOLDS FOR EXTERIOR RESIDENTIAL SLIDING DOORS SHALL BE 3/4" (19mm) HIGH MAXIMUM. (ANSI 4.13.8)

DOOR HARDWARE: HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. (ANSI 4.13.9) [GENERALLY LEVER HANDLE STYLE]

DOOR CLOSERS: DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEG., THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEG. WILL BE 5 SECONDS MINIMUM. (ANSI 4.13.10)

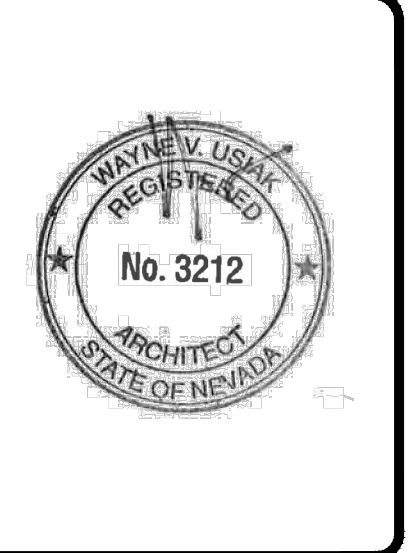
DOOR-OPENING FORCE: FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE REQUIRED FORCE FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS:  
 - INTERIOR HINGED DOOR: 5.0lb. (22.2N) MAX.  
 - SLIDING/FOLDING DOOR: 5.0lb. (22.2N) MAX.  
 THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR IN A CLOSED POSITION. (ANSI 4.13.11)

**CHANGES IN LEVEL:**

CHANGES IN LEVEL OF 1/4" (6mm) HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT (ANSI 4.5.2.1) CHANGES IN LEVEL BETWEEN 1/4" (6mm) HIGH MINIMUM AND 1/2" (13mm) HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. (ANSI 4.5.2.2)

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**MISC. DETAILS**

REVISION:	DATE:	COMMENTS:

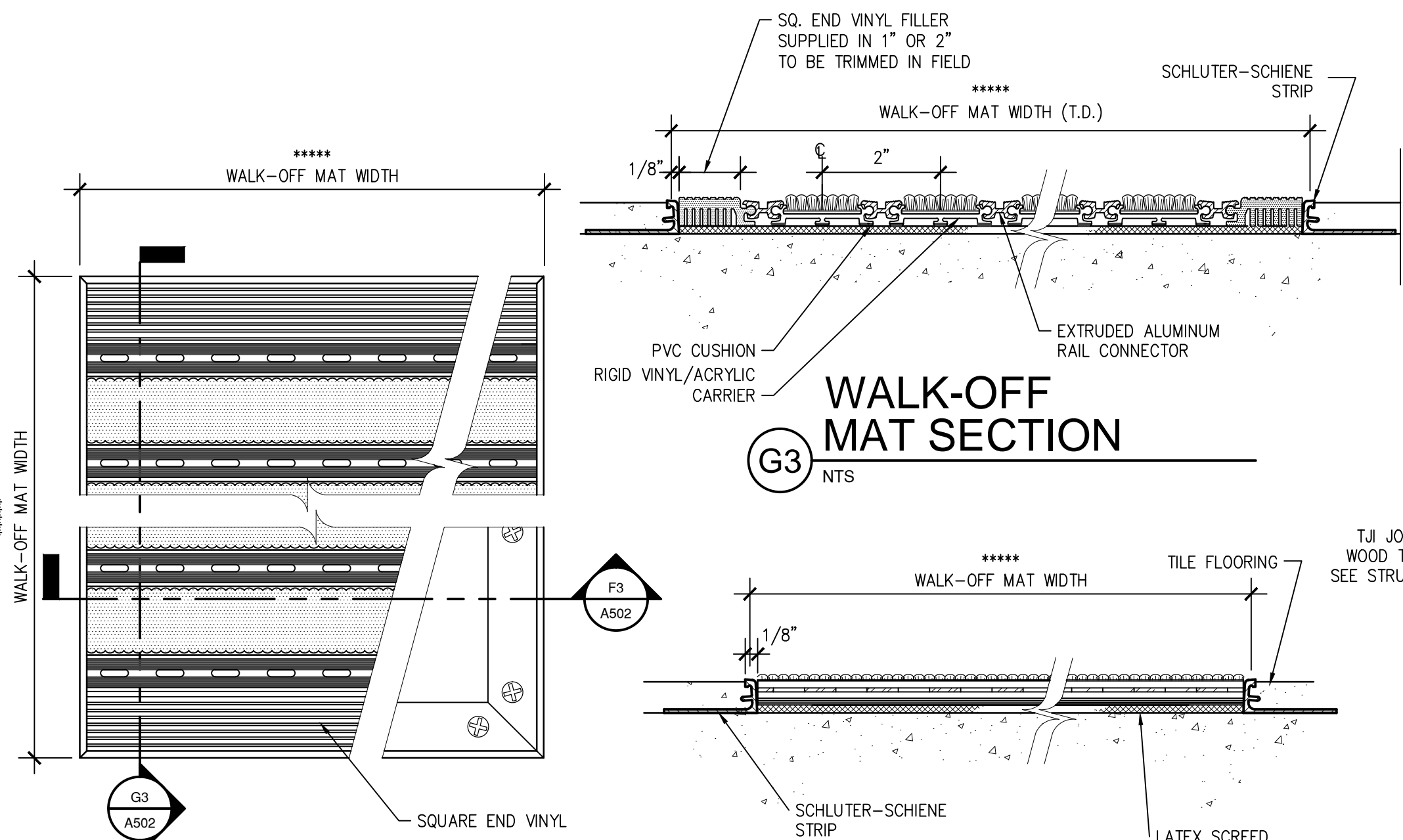
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	BDA TECH REV.

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 DATE: 2/27/2015

**A501**  
 OF

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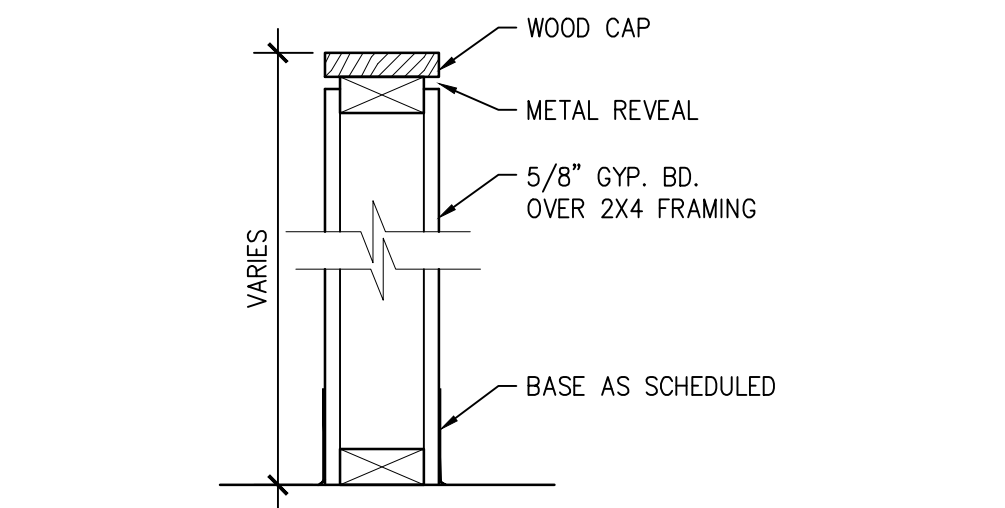
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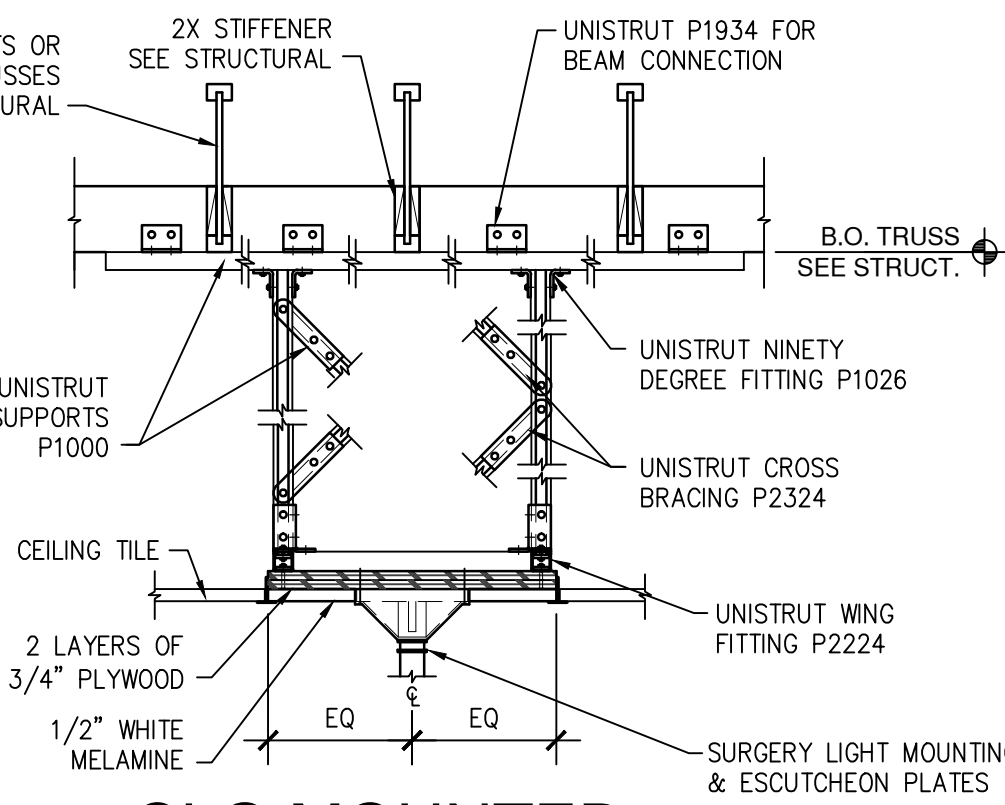
**F1** WALK-OFF MAT PLAN DETAIL  
NTS

**G3** WALK-OFF MAT SECTION  
NTS

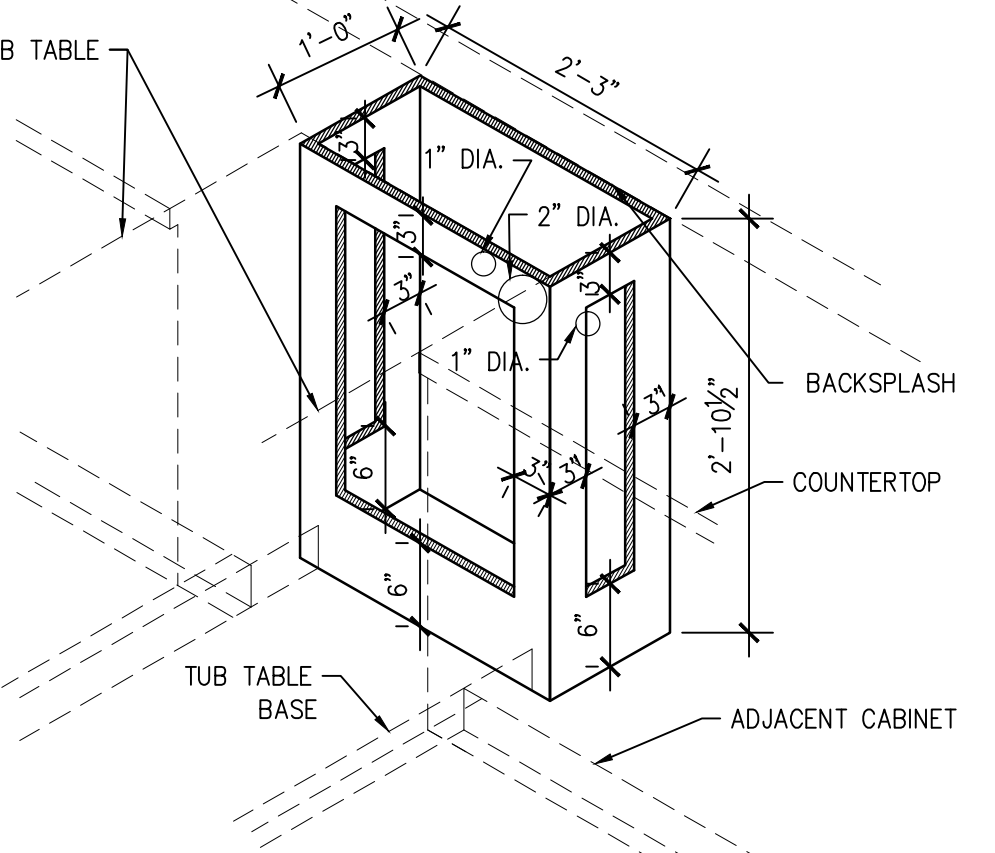
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NTS



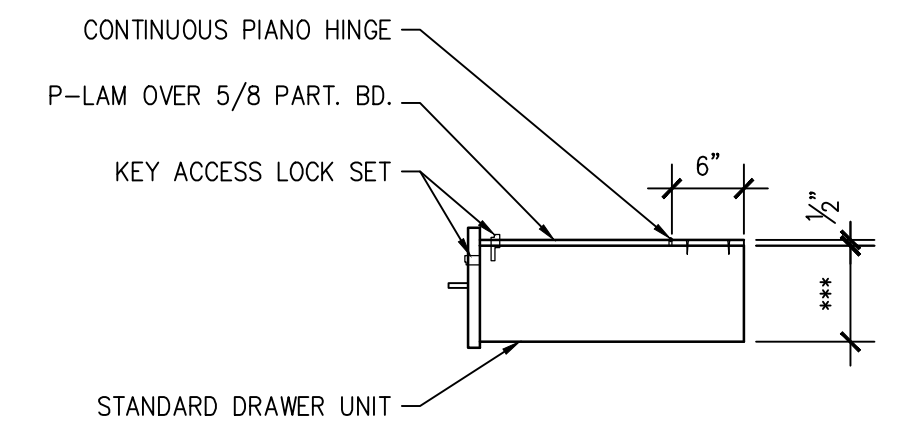
**G5** HALF WALL SECTION  
NTS



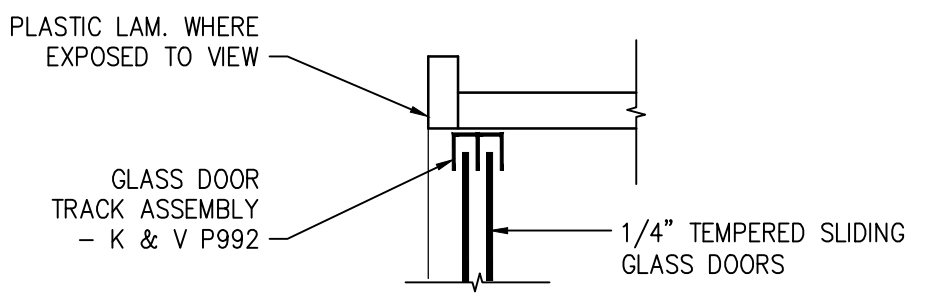
**F5** CLG MOUNTED SURGERY/EXAM LIGHT  
1" = 1'-0"



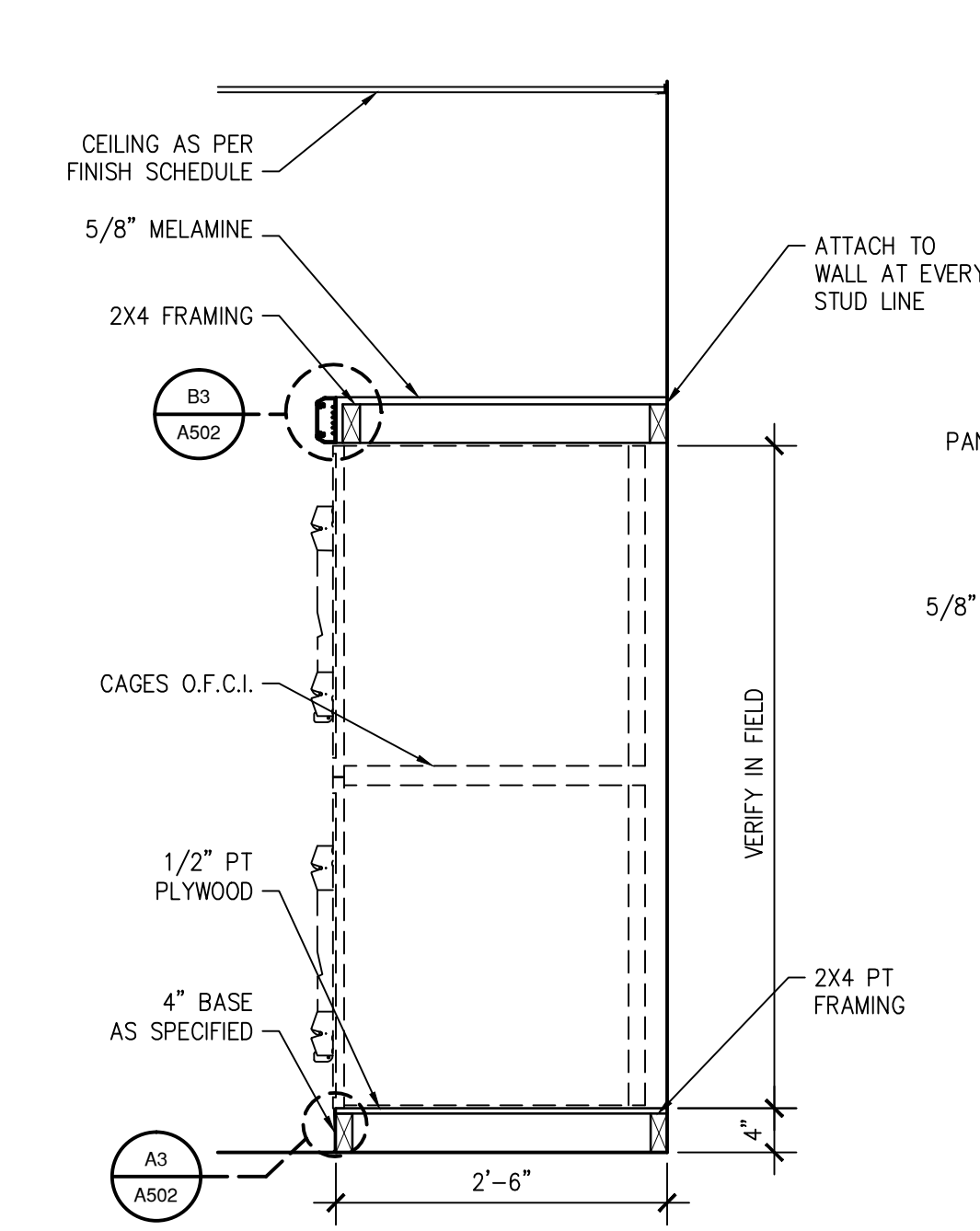
**D1** TUB TABLE CABINET  
3/4" = 1'-0" EXAM / TREATMENT RM



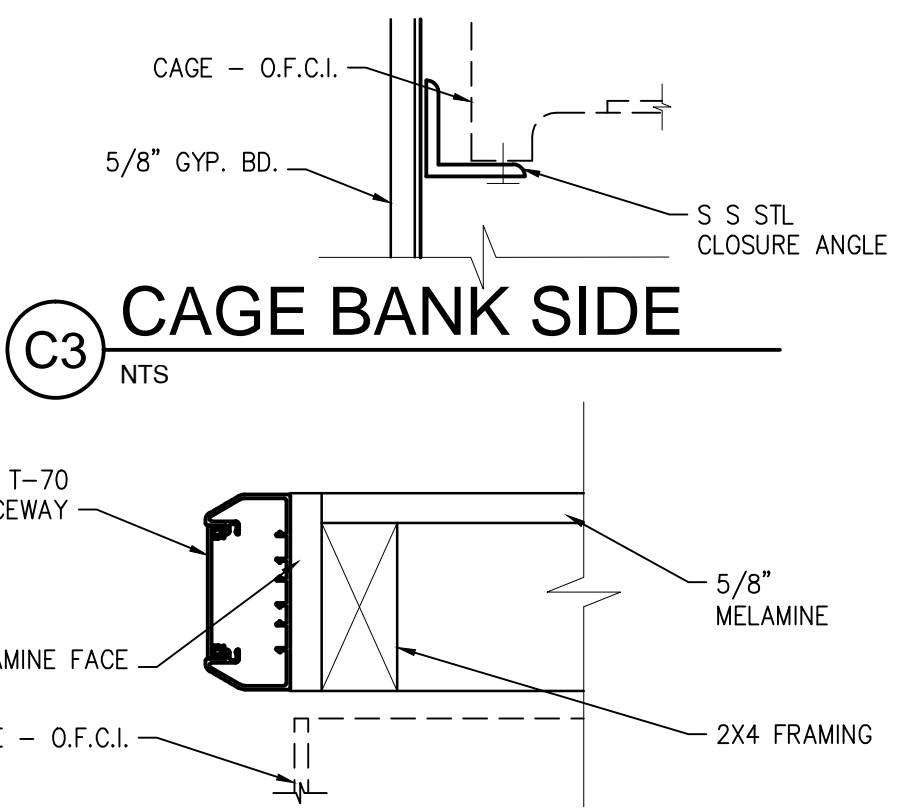
**D3** LOCKING DRAWER  
3/4" = 1'-0" EXAM / TREATMENT RM



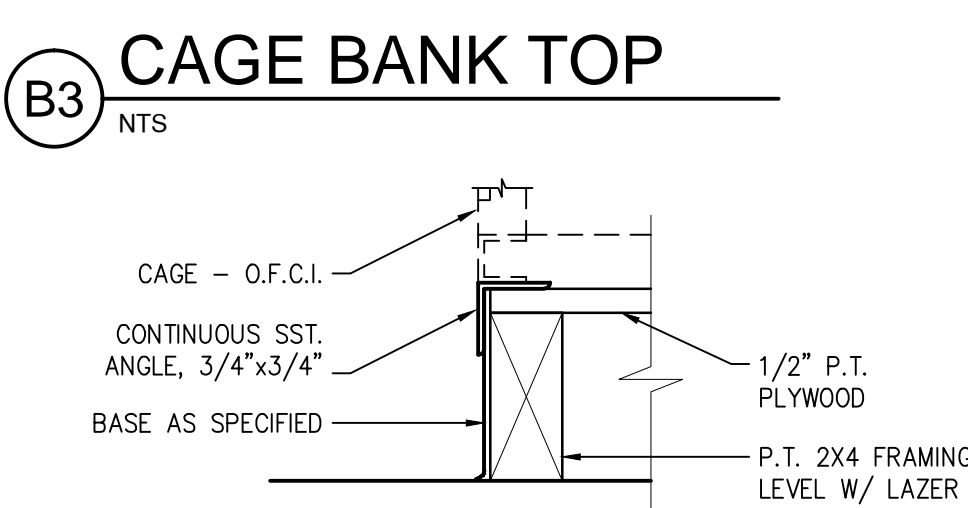
**D7** TOP SHELF DETAIL  
3" = 1'-0"



**A1** CAGE BANK SECTION  
3/4" = 1'-0"

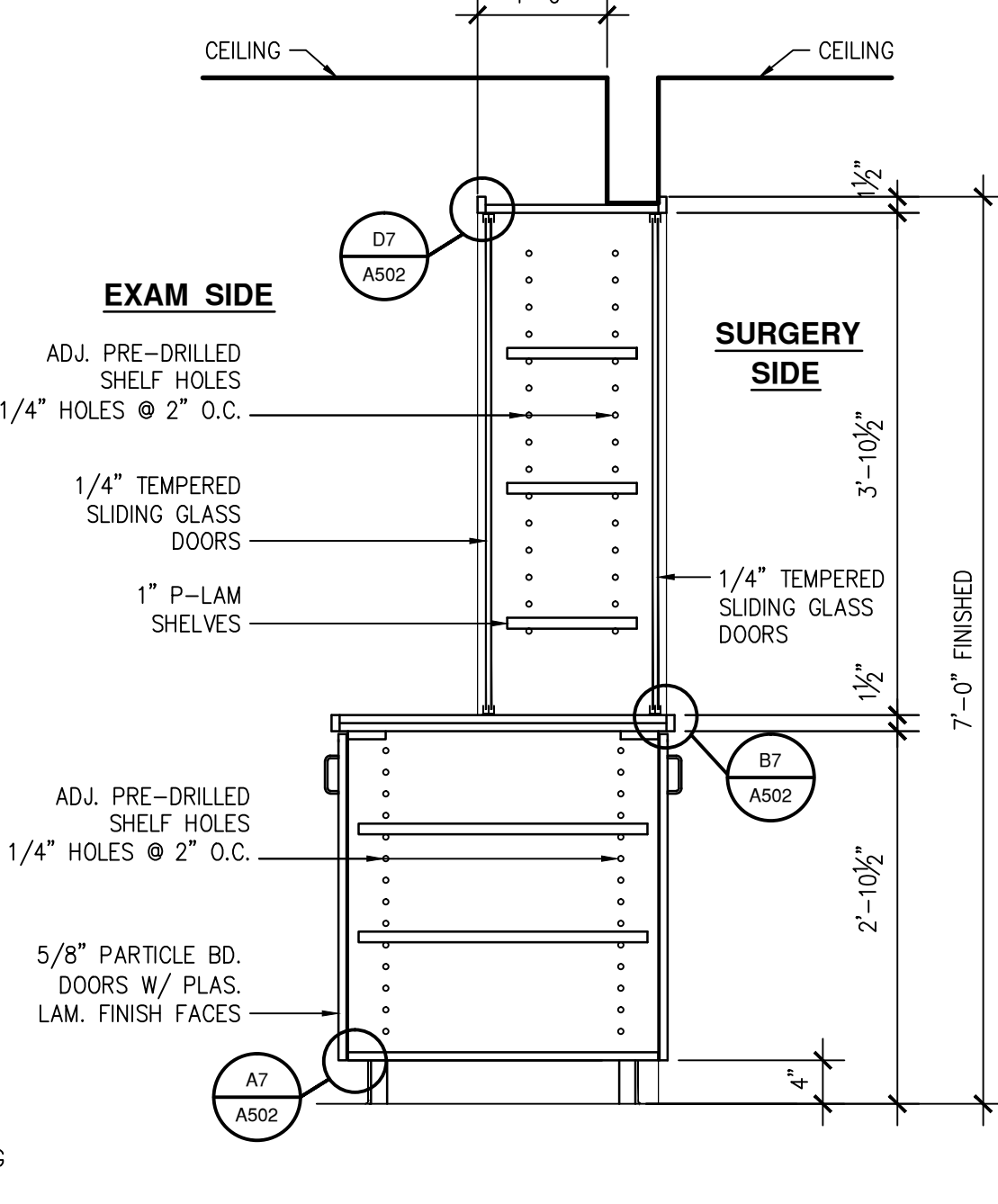


**C3** CAGE BANK SIDE  
NTS

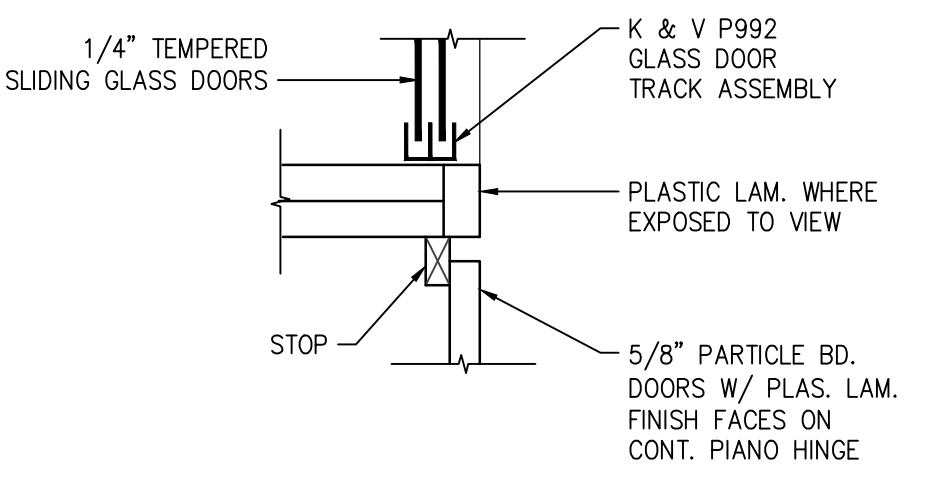


**B3** CAGE BANK TOP  
NTS

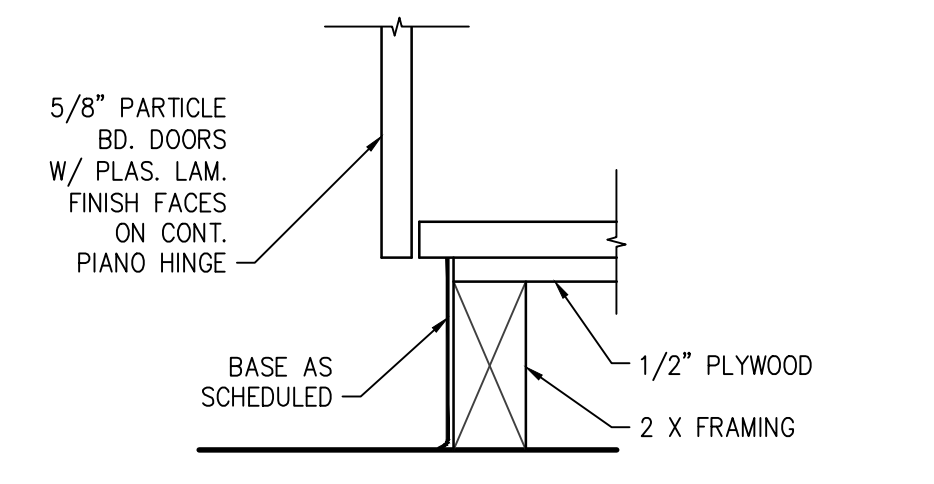
**A3** CAGE BANK BASE  
NTS



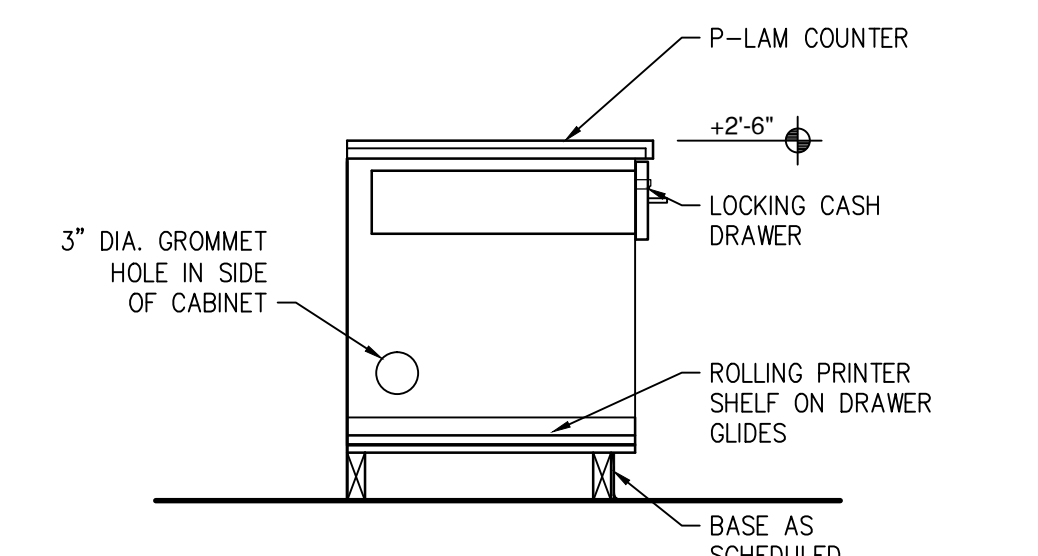
**A5** PASS-THRU SECTION  
3/4" = 1'-0" P-LAM BELOW



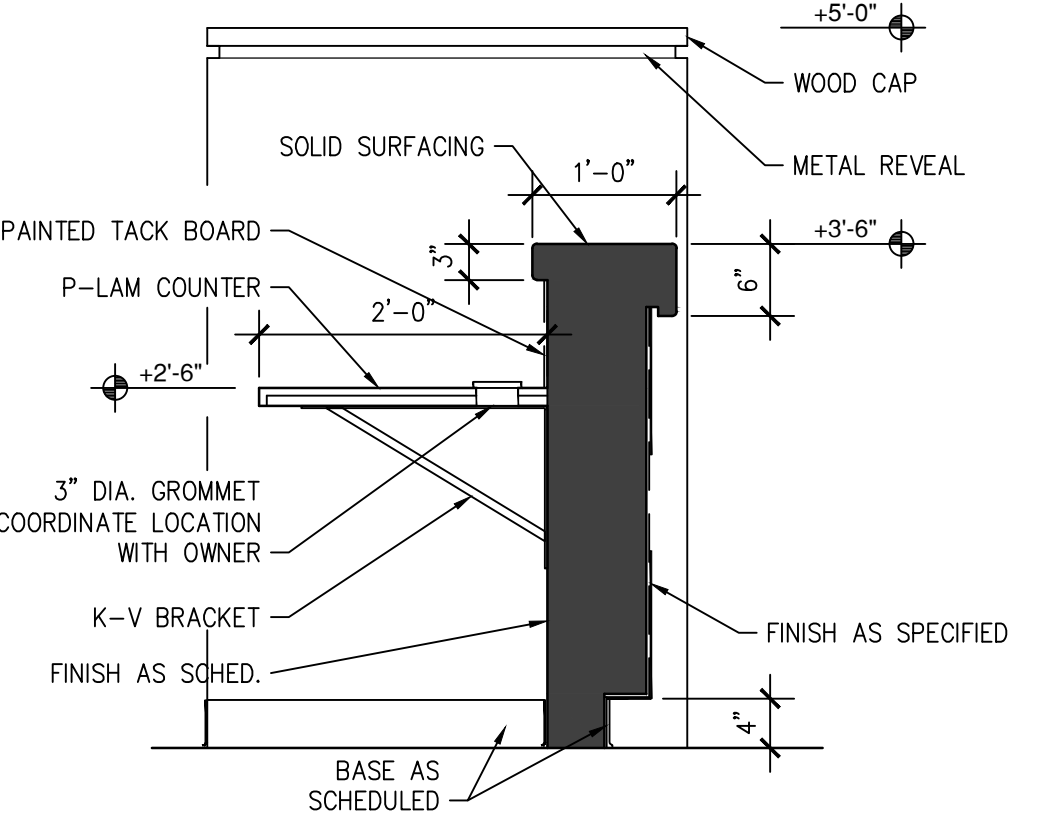
**B7** COUNTER DETAIL  
3" = 1'-0"



**A7** BASE DETAIL  
3" = 1'-0"



**C9** PRINTER CABINET  
3/4" = 1'-0"



**A9** RECEPTION DESK  
3/4" = 1'-0"

**GENERAL NOTES:**

- A. GROMMET LOCATIONS IN COUNTER TOPS TO BE COORDINATED WITH THE OWNER.
- B. ALL EXPOSED OUTSIDE CORNERS OF INTERIOR WALLS SHALL HAVE CORNER GUARDS, U.N.O.
- C. ALL EXPOSED COUNTER TOP CORNERS (AS SEEN PLAN VIEW) SHALL HAVE A 2" RADIUS.
- D. PROVIDE ADEQUATE SUPPORT BRACING IN WALL AT ALL CABINETS AS REQUIRED.

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**MISC. DETAILS**

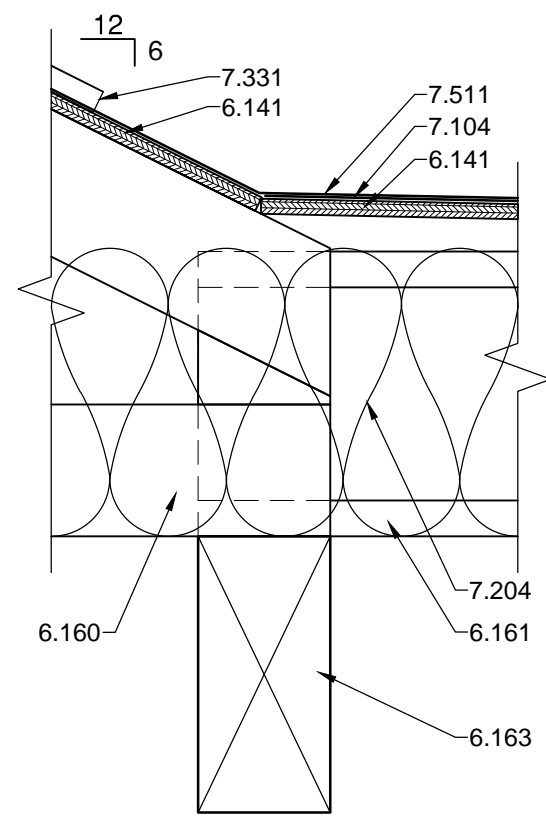
REV.#	DATE	COMMENTS

INITIALS	REVISIONS
	BDA DSGN. REV.
	BDA TECH REV.

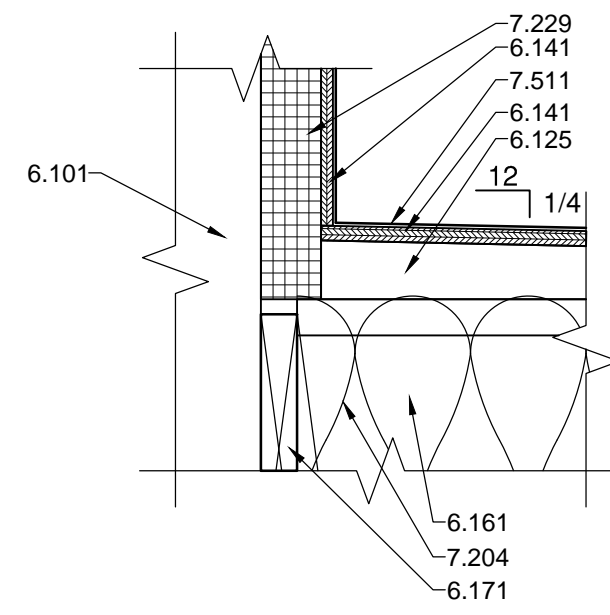
REVISIONS

CCAS  
 PROJECT NO.: 1107  
 DRAWN: -  
 DATE: 2/27/2015

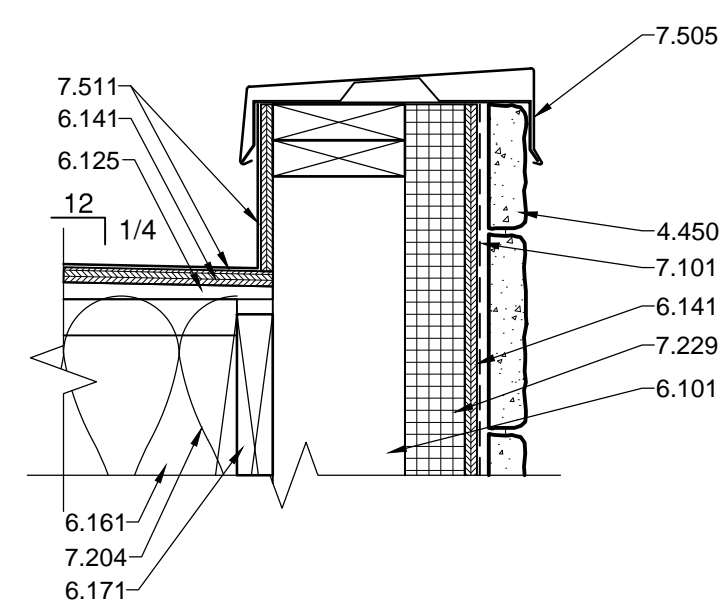
**A502**  
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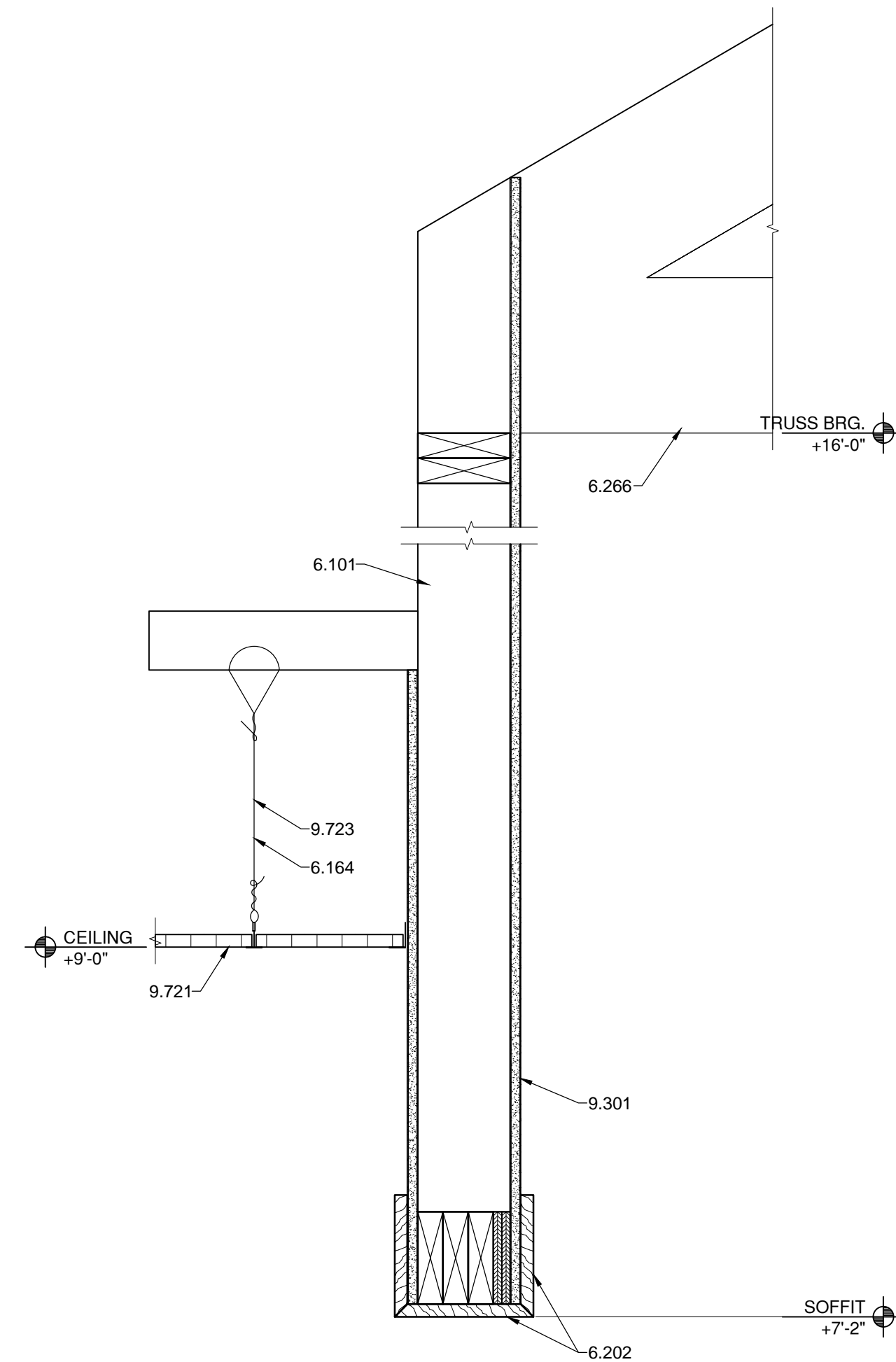
**G1 ROOF DETAIL**  
1 1/2"=1'-0"



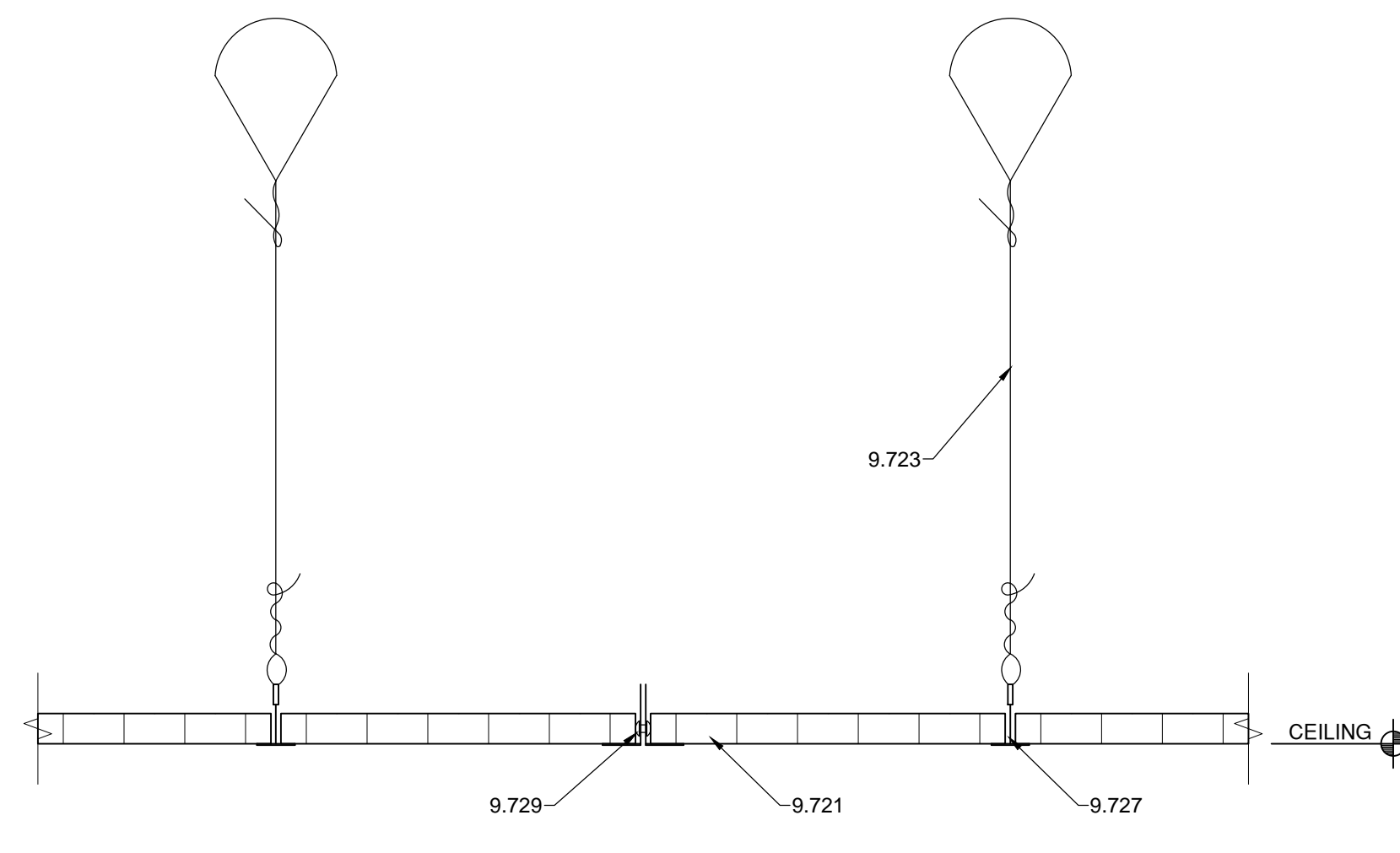
**G3 ROOF DETAIL**  
1 1/2"=1'-0"



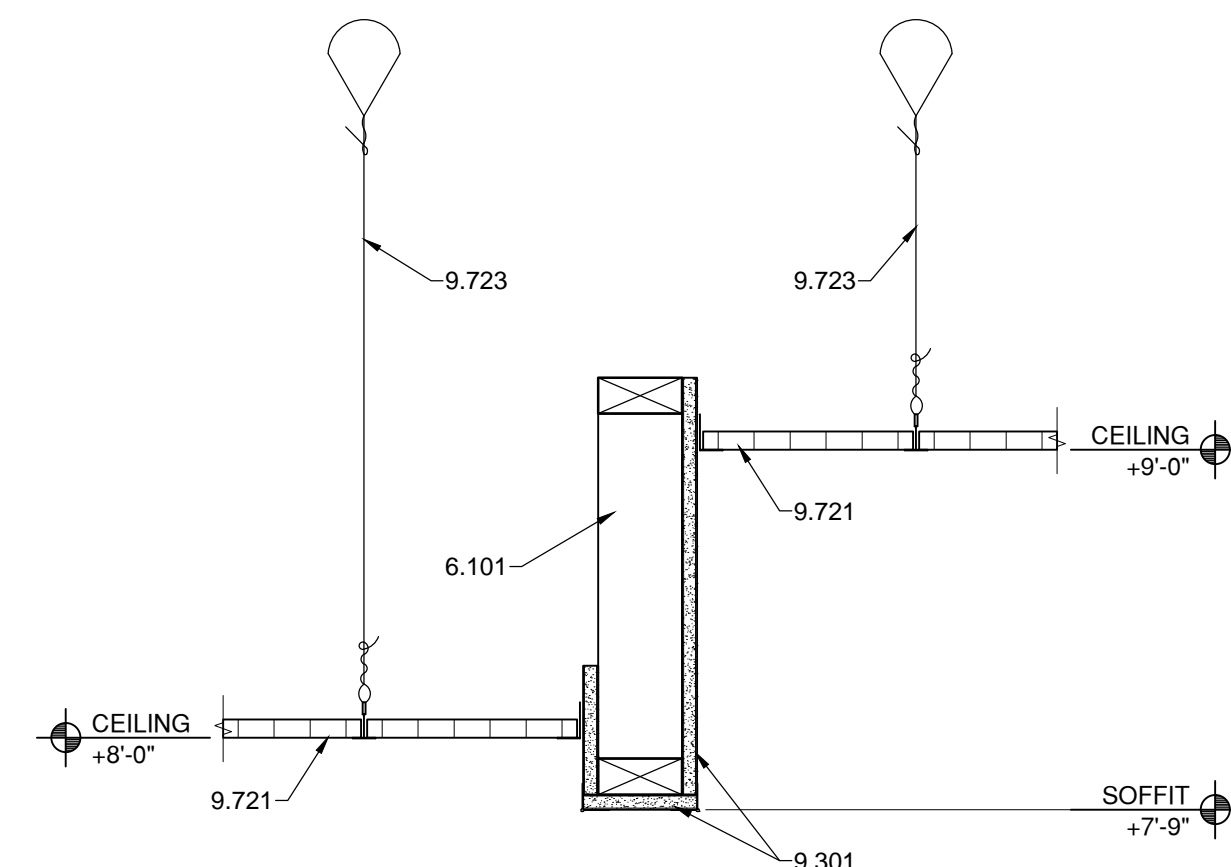
**G5 PARAPET DETAIL**  
1 1/2"=1'-0"



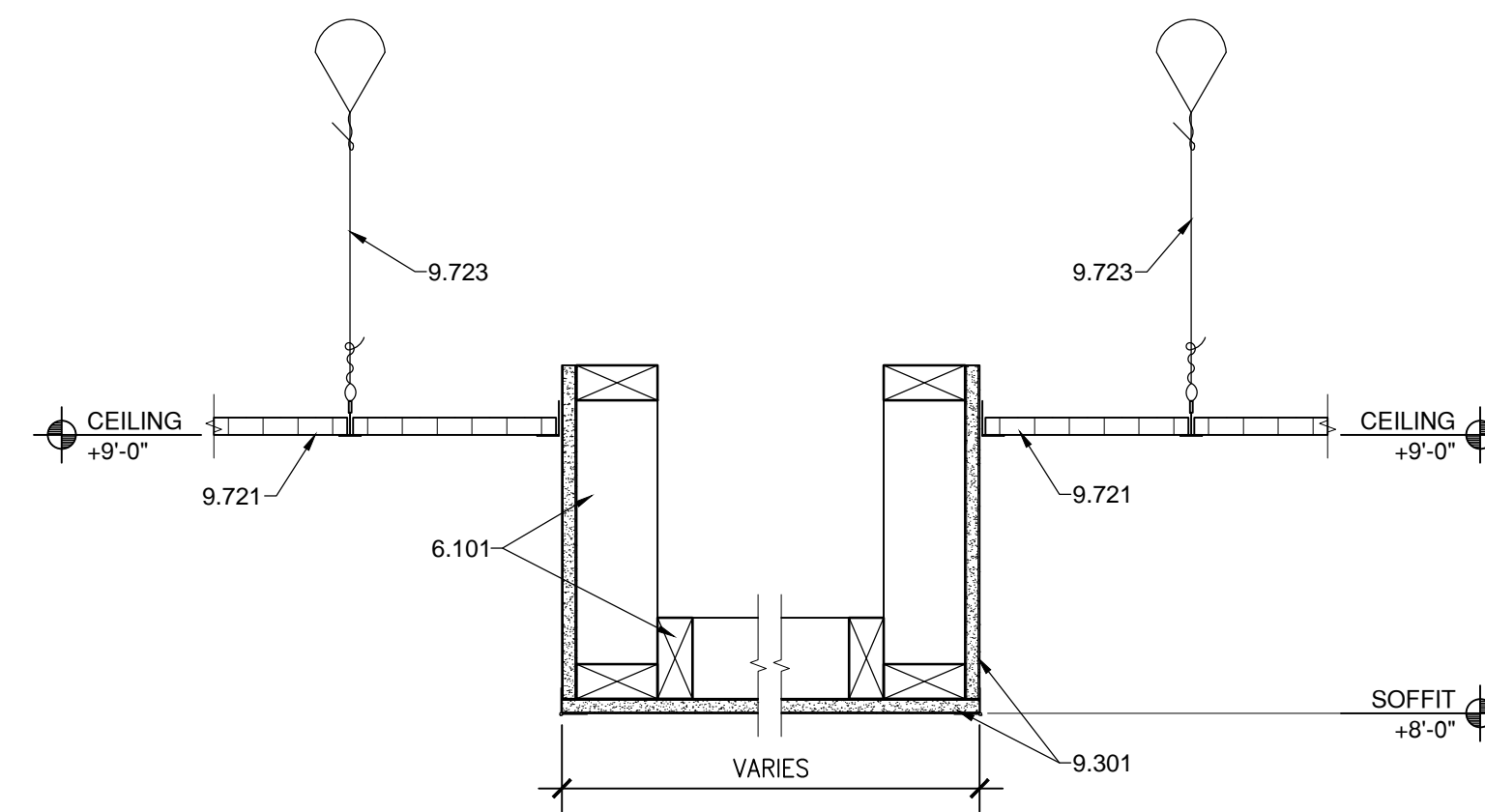
**C1 CEILING SOFFIT**  
1 1/2"=1'-0"



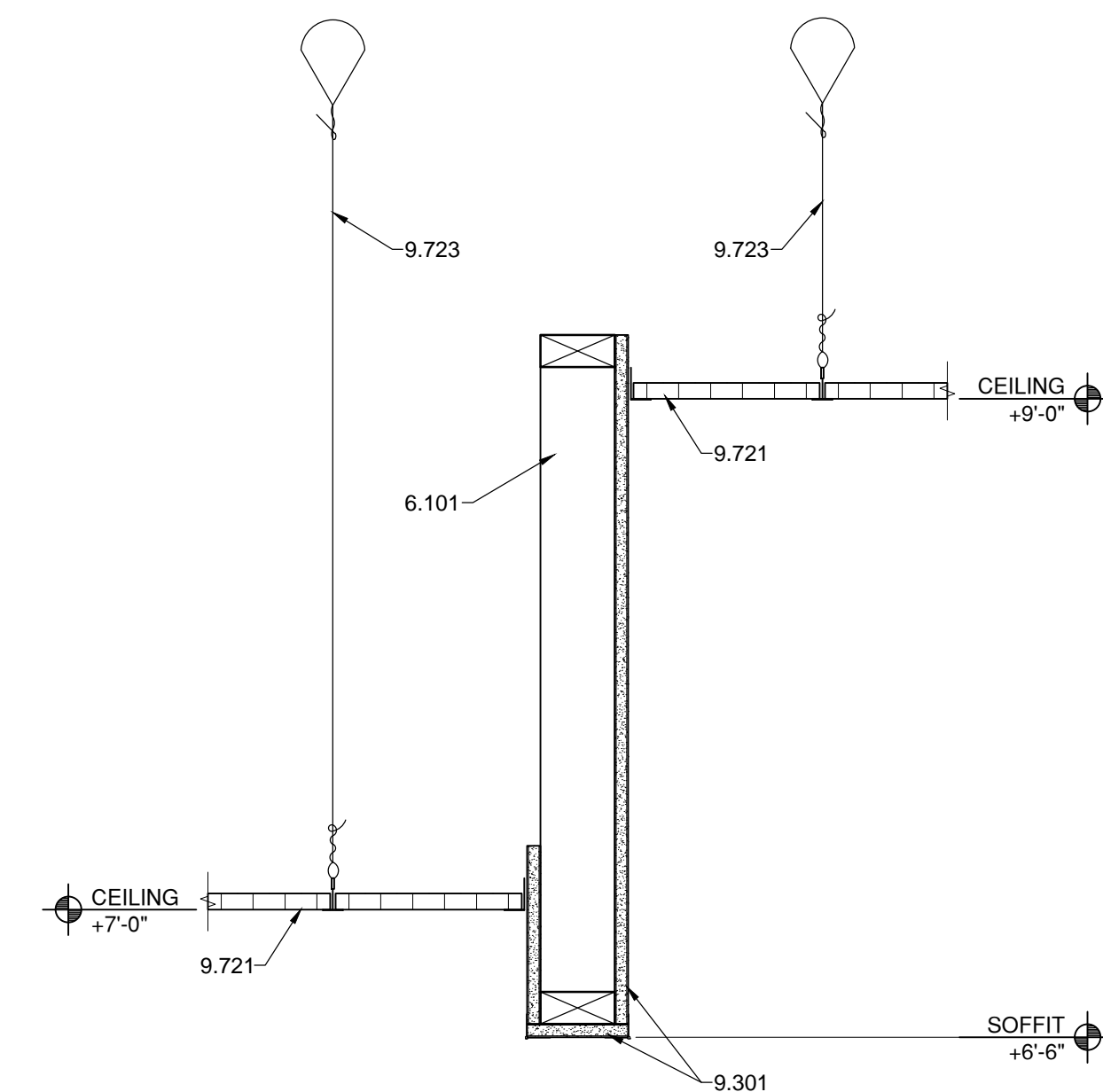
**C4 CEILING SOFFIT**  
3"=1'-0"



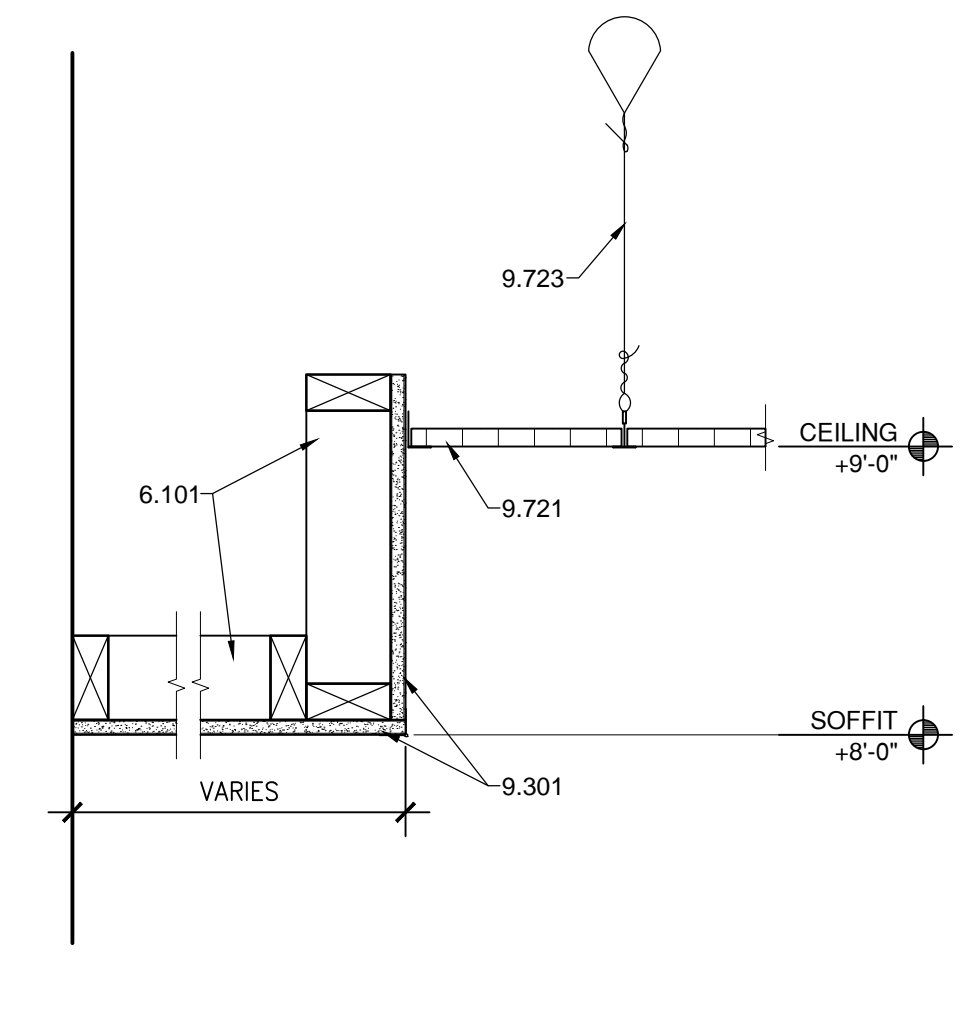
**A1 CEILING SOFFIT**  
1 1/2"=1'-0"



**A4 CEILING SOFFIT**  
1 1/2"=1'-0"



**A7 CEILING SOFFIT**  
1 1/2"=1'-0"



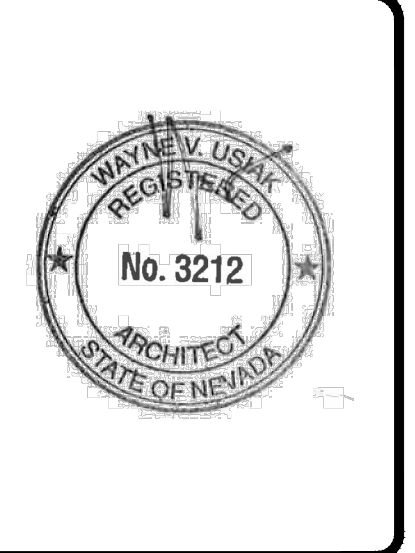
**A10 CEILING SOFFIT**  
1 1/2"=1'-0"

**REFERENCE KEYNOTES**

- DIVISION 04 - MASONRY
  - 4.450 - MANUFACTURED STONE VENEER
- DIVISION 06 - WOOD AND PLASTICS
  - 6.101 - WOOD FRAMING
  - 6.125 - RIPPERS
  - 6.141 - SHEATHING - SEE STRUCTURAL
  - 6.160 - WOOD TRUSS - SEE STRUCTURAL
  - 6.161 - WOOD JOIST - SEE STRUCTURAL
  - 6.163 - WOOD BEAM - SEE STRUCTURAL
  - 6.164 - WOOD HEADER - SEE STRUCTURAL
  - 6.171 - WOOD LEDGER - SEE STRUCTURAL
  - 6.202 - ARCHITECTURAL TRIM
  - 6.266 - EXPOSED WOOD TRUSS
- DIVISION 07 - THERMAL AND MOISTURE PROTECTION
  - 7.101 - WEATHER RESISTANT BARRIER
  - 7.104 - ICE AND WATER SHIELD
  - 7.204 - R-38 BATT INSULATION
  - 7.229 - 2 1/2" RIGID INSULATION
  - 7.331 - METAL ROOF PANEL SYSTEM
  - 7.505 - METAL CAP
  - 7.511 - EPDM ROOFING
- DIVISION 09 - FINISHES
  - 9.301 - 5/8" GYPSUM BOARD
  - 9.721 - ACOUSTIC CEILING TILE
  - 9.723 - SUSPENDED CEILING SUPPORT
  - 9.727 - SUSPENSION TEE
  - 9.729 - DOUBLE RIVETED WALL ANGLE

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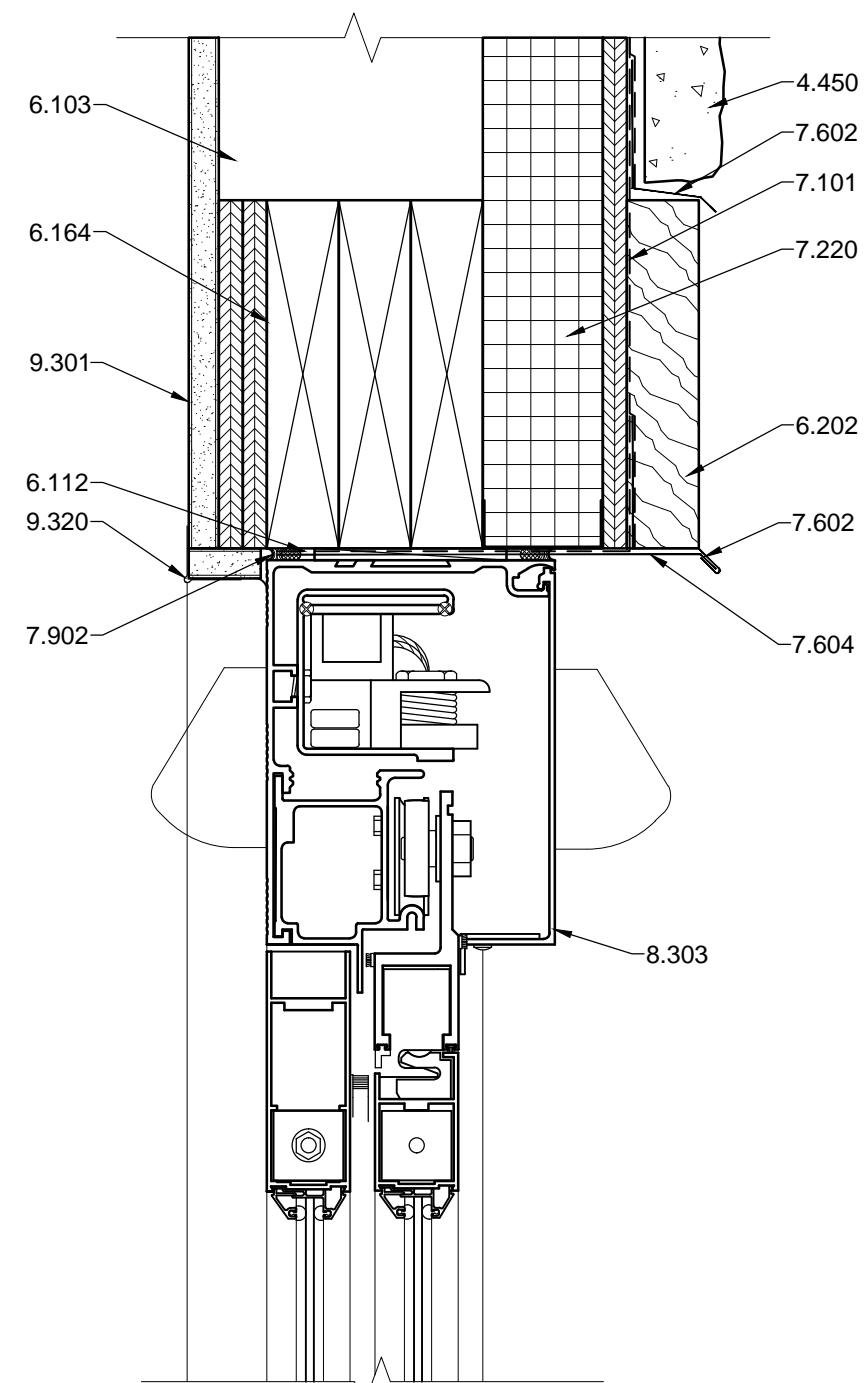
**SOFFIT DETAILS**

REV.#	DATE	COMMENTS

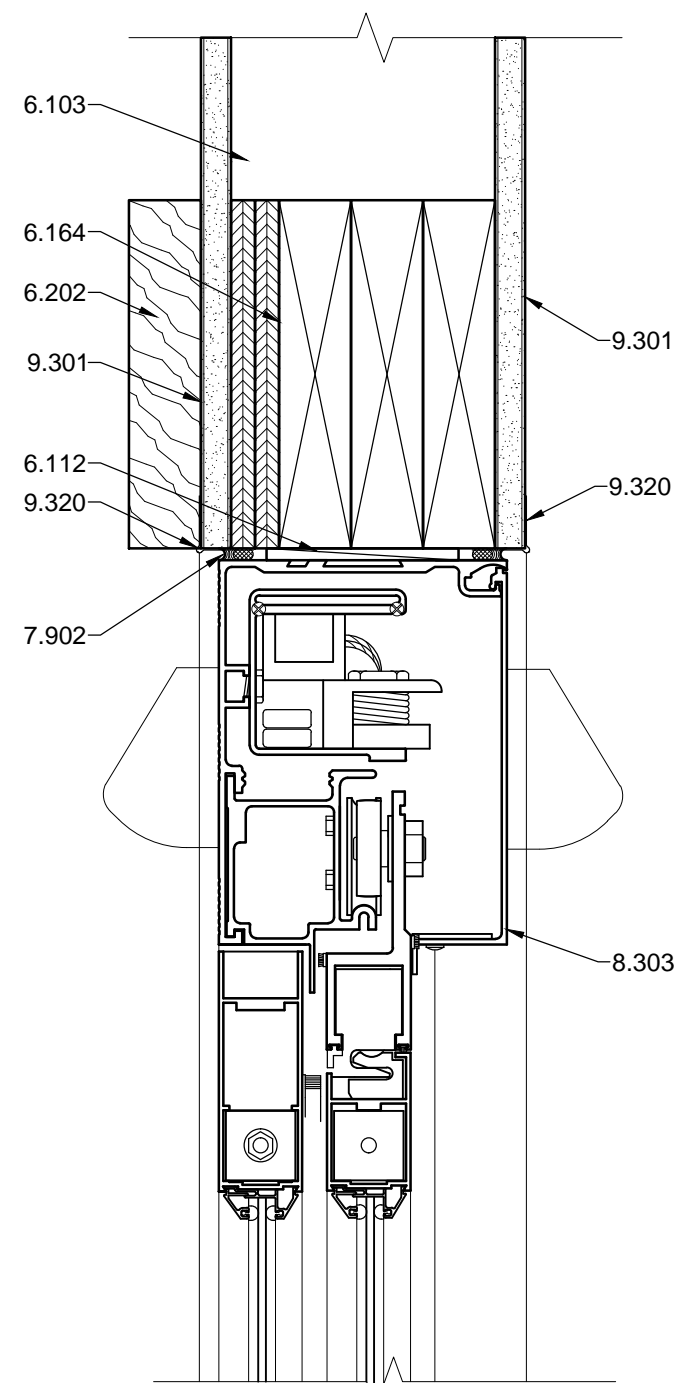
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	BDA TECH REV.

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PROJECT NO.: 1107  
DRAWN: -  
DATE: 2/27/2015  
**A503**  
OF -

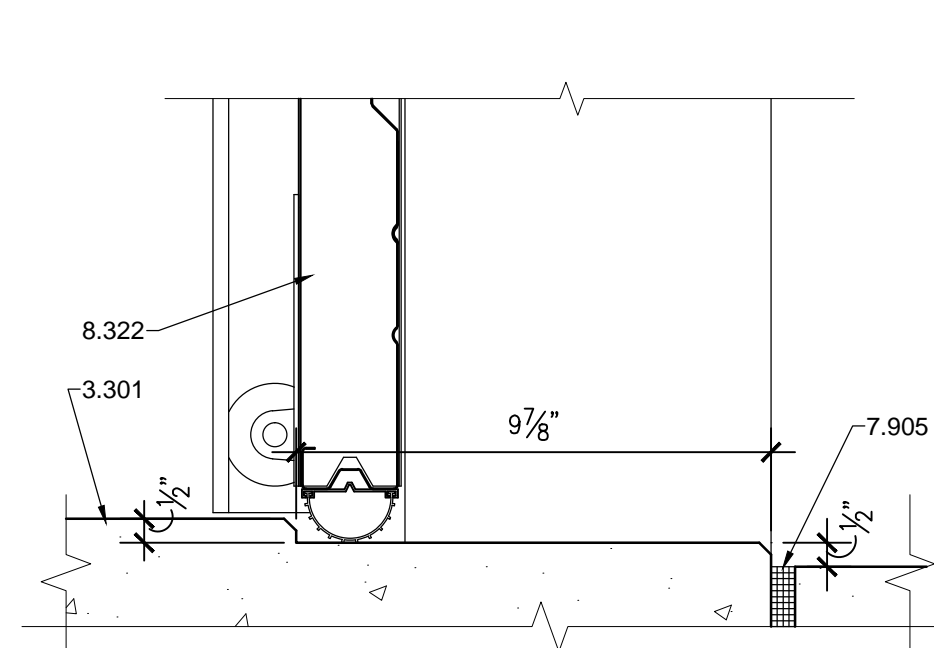




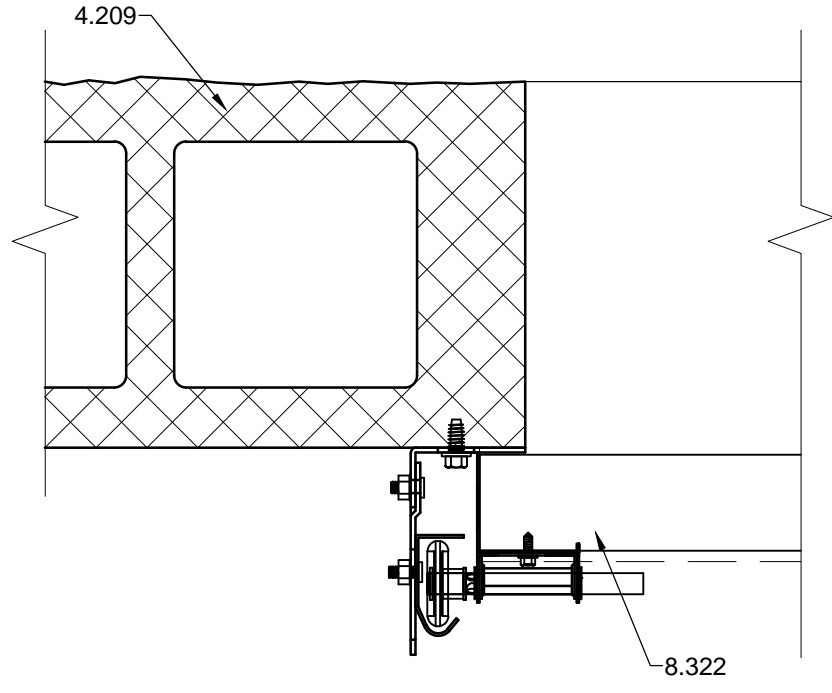
**E1** EXT. DOOR HEAD  
3'-1'-0"



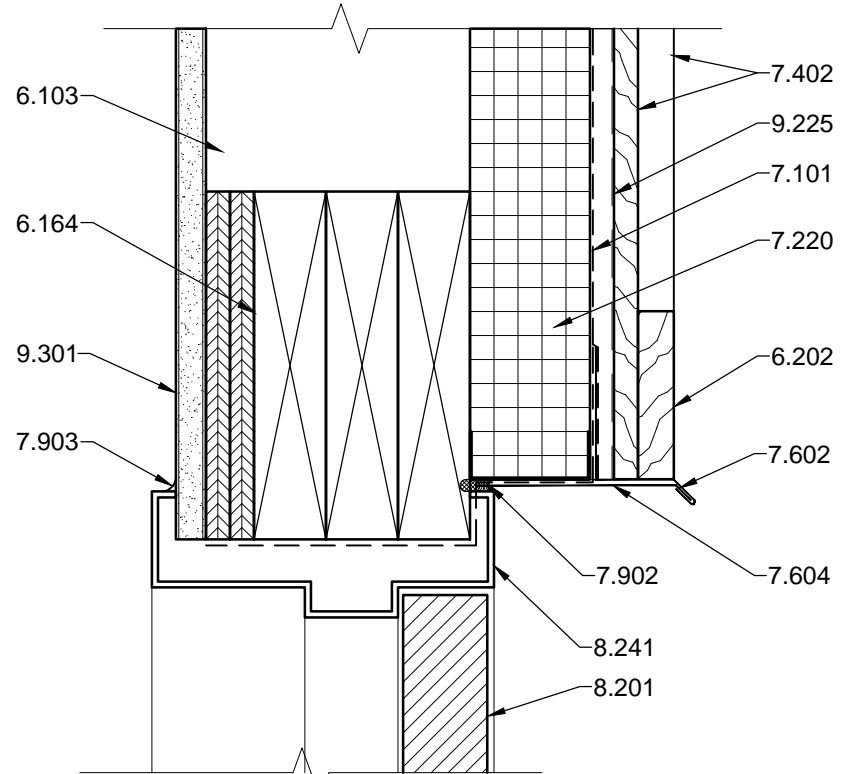
**E3** INT. DOOR HEAD  
3'-1'-0"



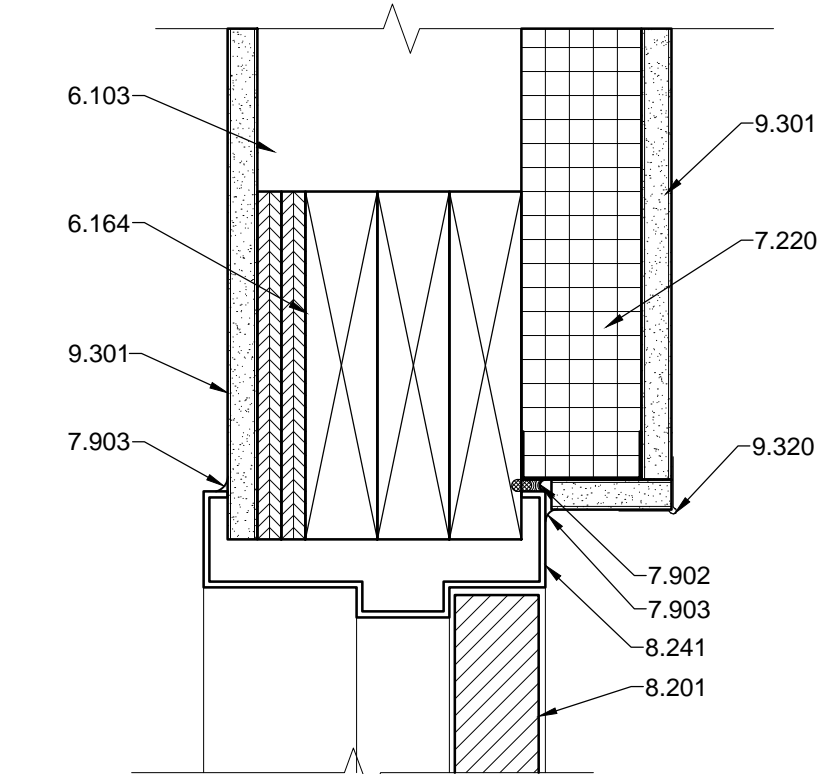
**G5** EXT. DOOR SILL  
3'-1'-0"



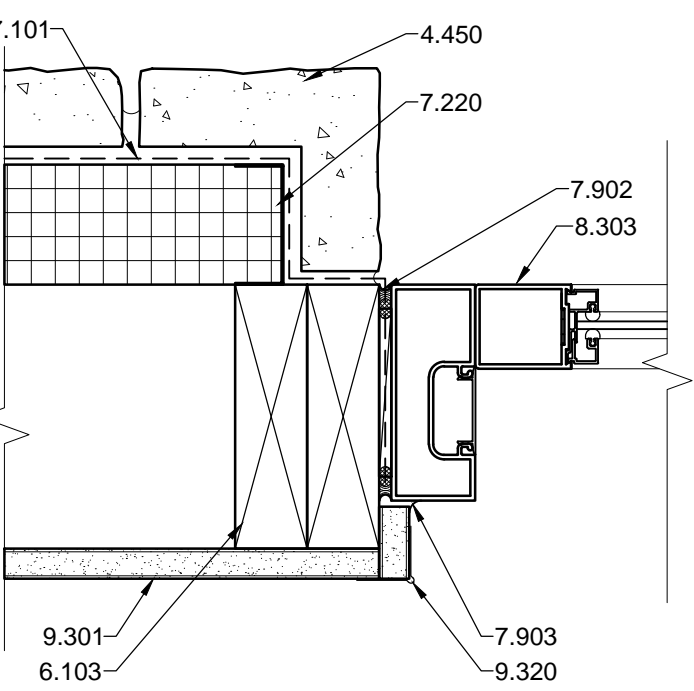
**G7** EXT. DOOR JAMB  
3'-1'-0"



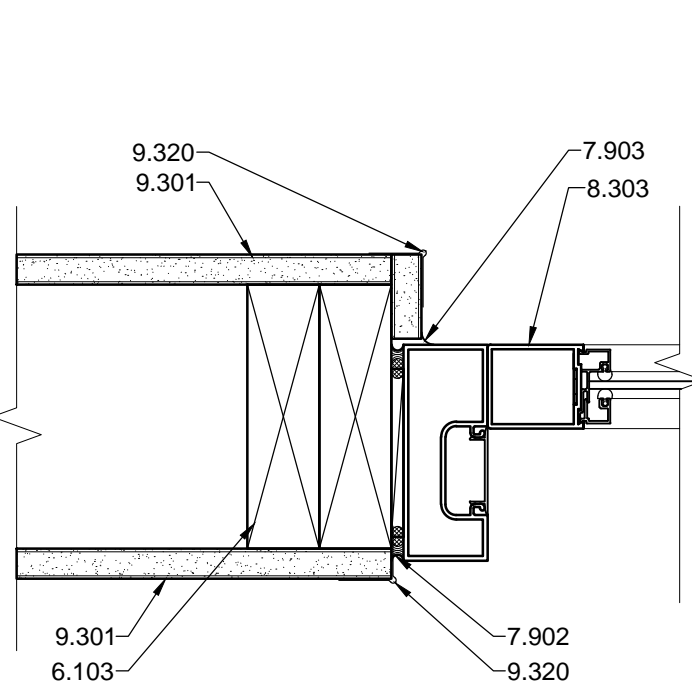
**E5** EXT. DOOR HEAD  
3'-1'-0"



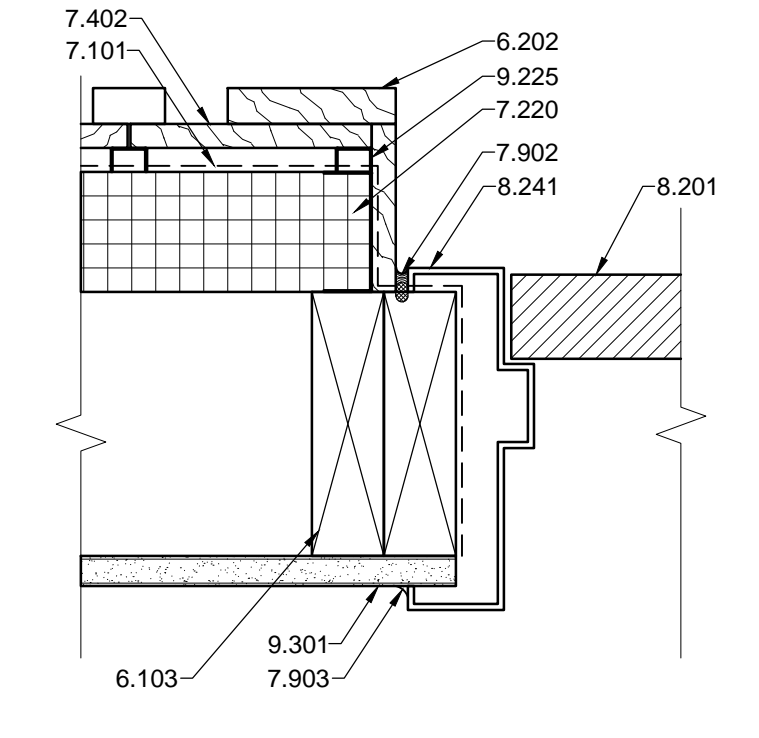
**E7** INT. DOOR HEAD  
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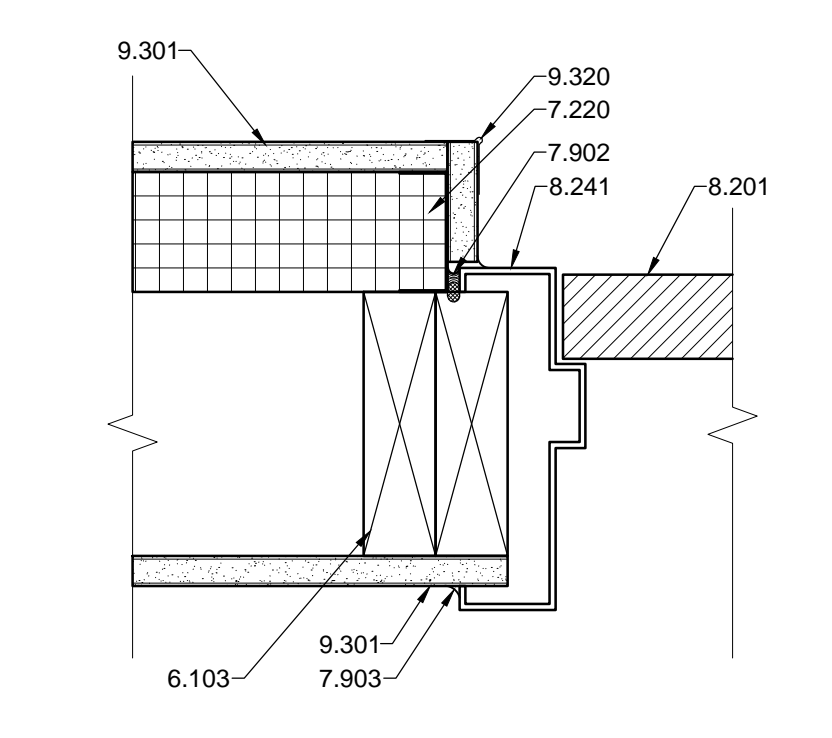
**C1** EXT. DOOR JAMB  
3'-1'-0"



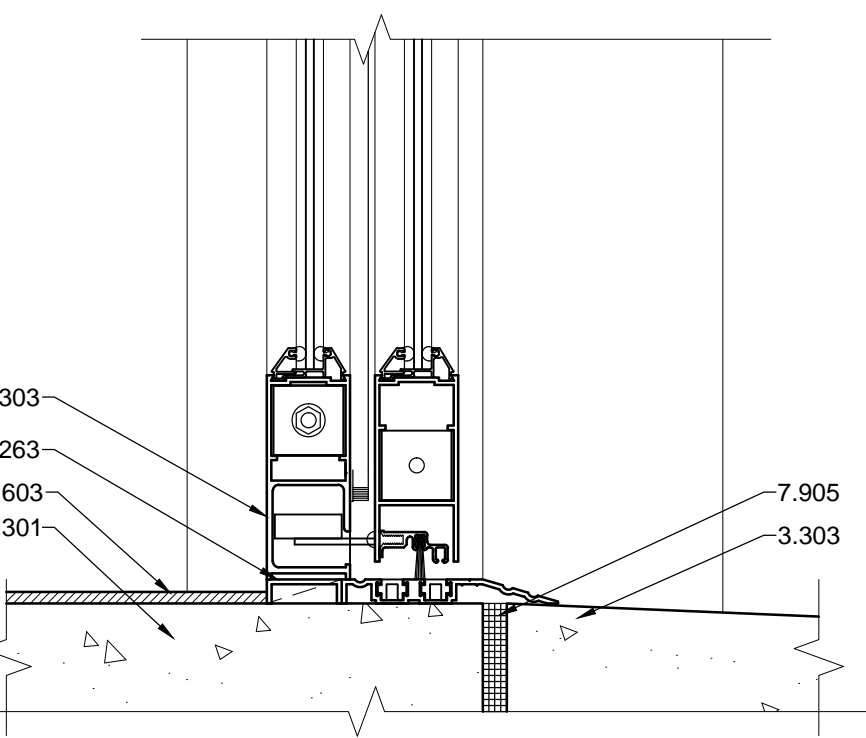
**C3** INT. DOOR JAMB  
3'-1'-0"



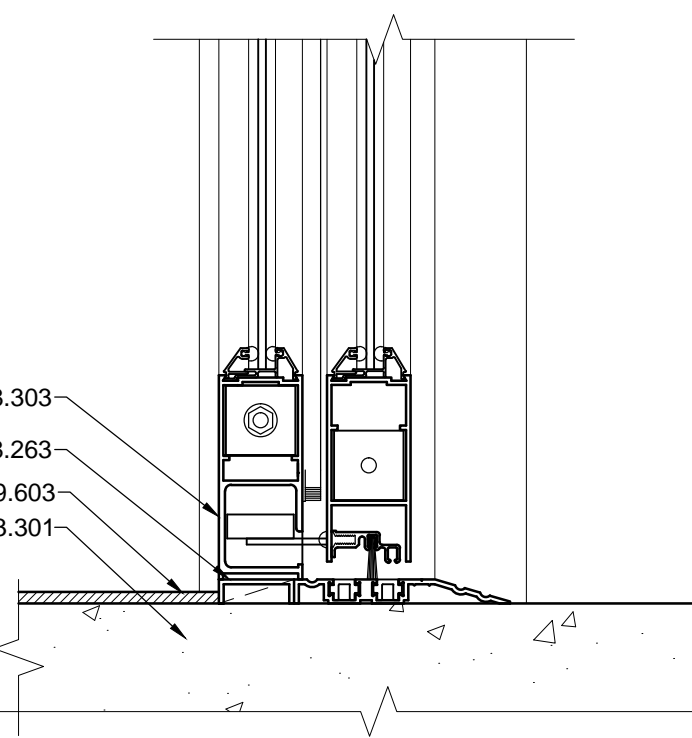
**C5** EXT. DOOR JAMB  
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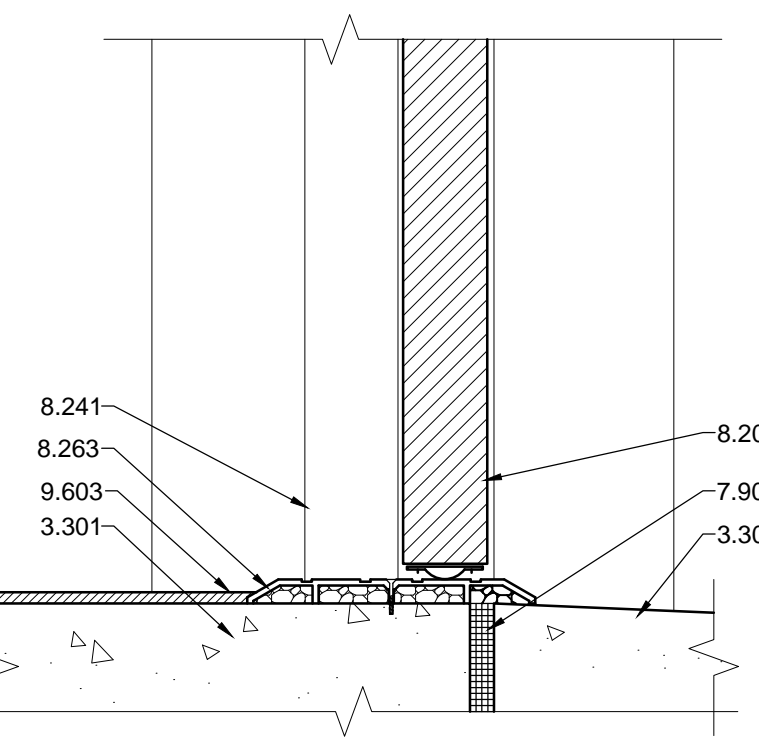
**C7** INT. DOOR JAMB  
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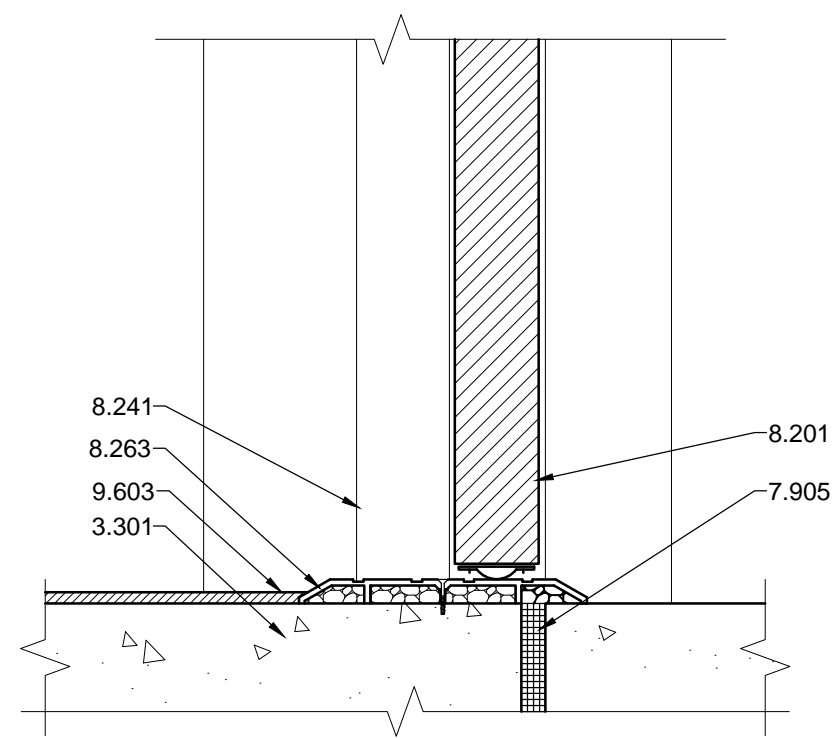
**A1** EXT. DOOR SILL  
3'-1'-0"



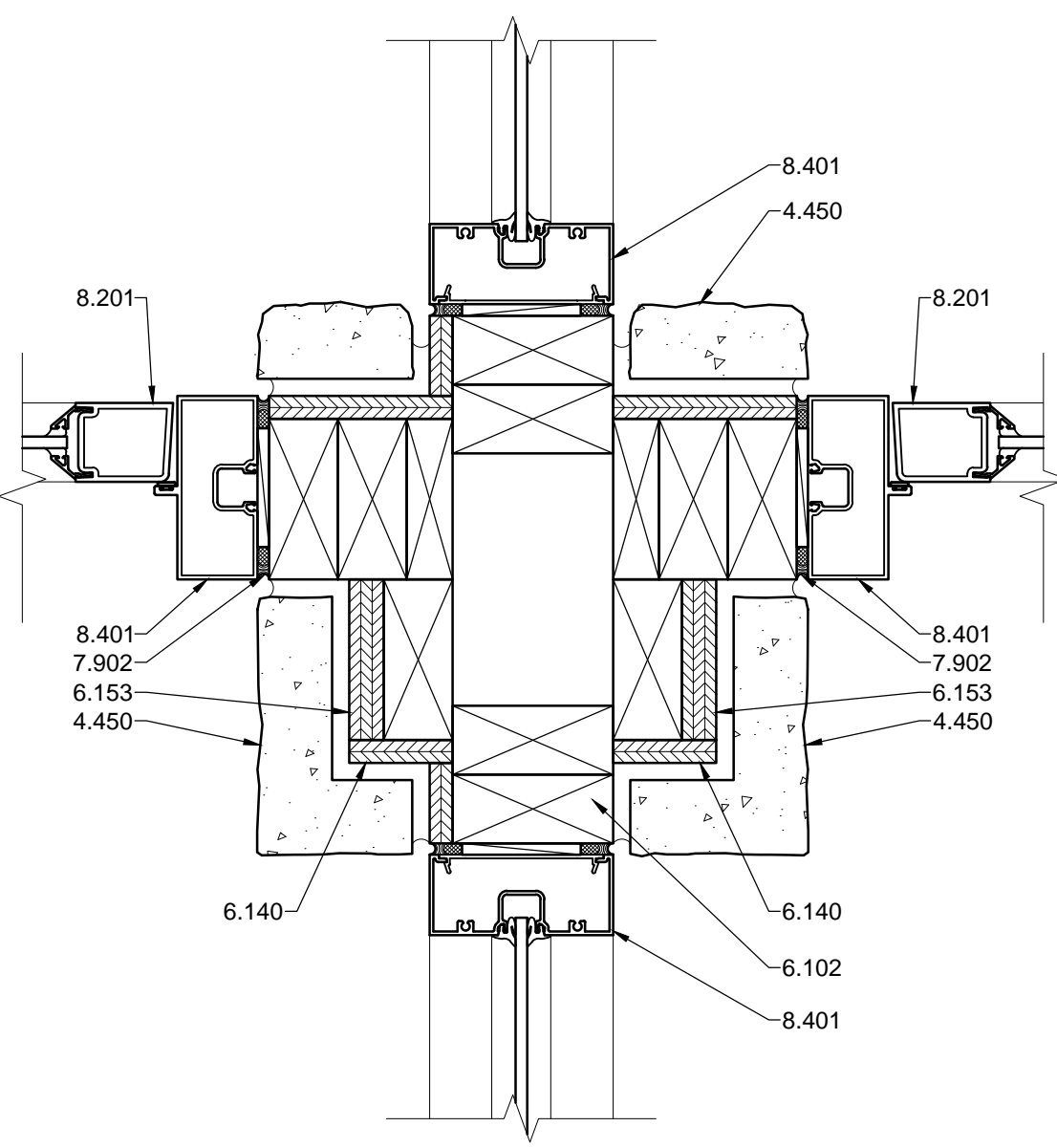
**A3** INT. DOOR SILL  
3'-1'-0"



**A5** EXT. DOOR SILL  
3'-1'-0"



**A7** INT. DOOR SILL  
3'-1'-0"



**A9** INT. DOOR JAMB  
3'-1'-0"

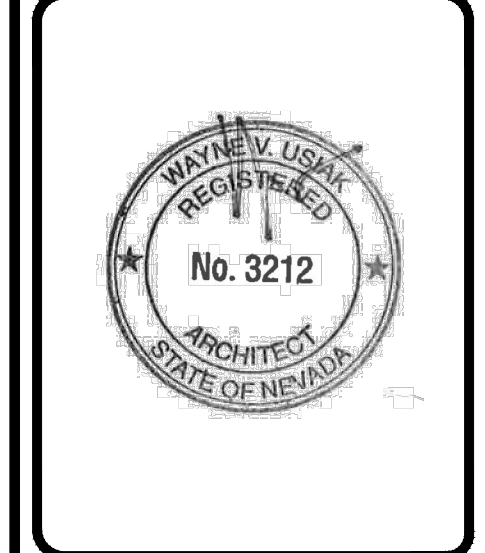
**REFERENCE KEYNOTES**

- DIVISION 03 - CONCRETE
  - 3.301 - CONCRETE SLAB - SEE STRUCTURAL
  - 3.303 - CONCRETE STOOP
- DIVISION 04 - MASONRY
  - 4.209 - SCORED SPLIT FACE CONCRETE MASONRY UNIT
  - 4.450 - MANUFACTURED STONE VENEER
- DIVISION 06 - WOOD AND PLASTICS
  - 6.102 - 2X4 WOOD STUD
  - 6.103 - 2X6 WOOD STUD
  - 6.112 - SHIM
  - 6.140 - SHEATHING
  - 6.153 - 3/4" PLYWOOD
  - 6.164 - WOOD HEADER - SEE STRUCTURAL
  - 6.202 - ARCHITECTURAL TRIM
- DIVISION 07 - THERMAL AND MOISTURE PROTECTION
  - 7.101 - WEATHER RESISTANT BARRIER
  - 7.220 - RIGID INSULATION
  - 7.402 - BOARD AND BATTEN SIDING
  - 7.602 - METAL DRIP EDGE FLASHING
  - 7.604 - METAL FLASHING
  - 7.902 - BACKER ROD AND SEALANT
  - 7.903 - CAULK
  - 7.905 - 1/2" EXPANSION JOINT
- DIVISION 08 - OPENINGS
  - 8.201 - DOOR AS SCHEDULED
  - 8.241 - HOLLOW METAL FRAME AS SCHEDULED
  - 8.263 - ANCHORED METAL THRESHOLD SET IN BED OF SEALANT
  - 8.303 - SLIDING DOOR
  - 8.322 - SECTIONAL OVERHEAD DOOR
  - 8.401 - STOREFRONT SYSTEM
- DIVISION 09 - FINISHES
  - 9.225 - METAL FURRING
  - 9.301 - 5/8" GYPSUM BOARD
  - 9.320 - CORNER BEAD
  - 9.603 - FLOOR FINISH AS SCHEDULED

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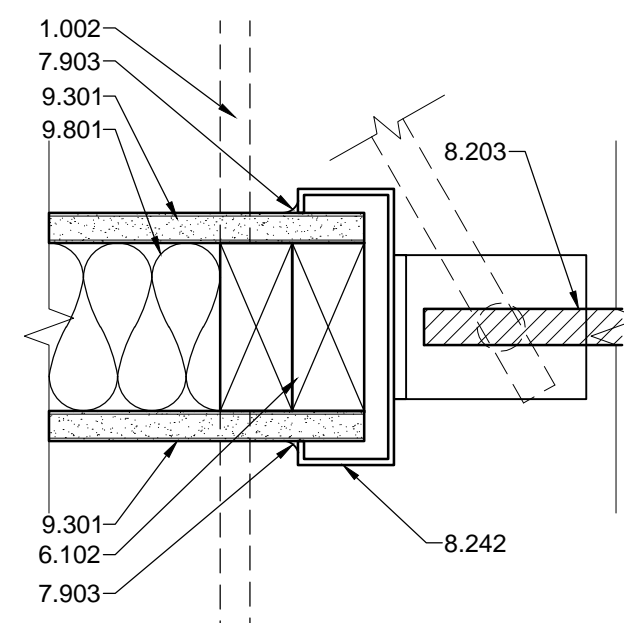
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REV.#	DATE	COMMENTS

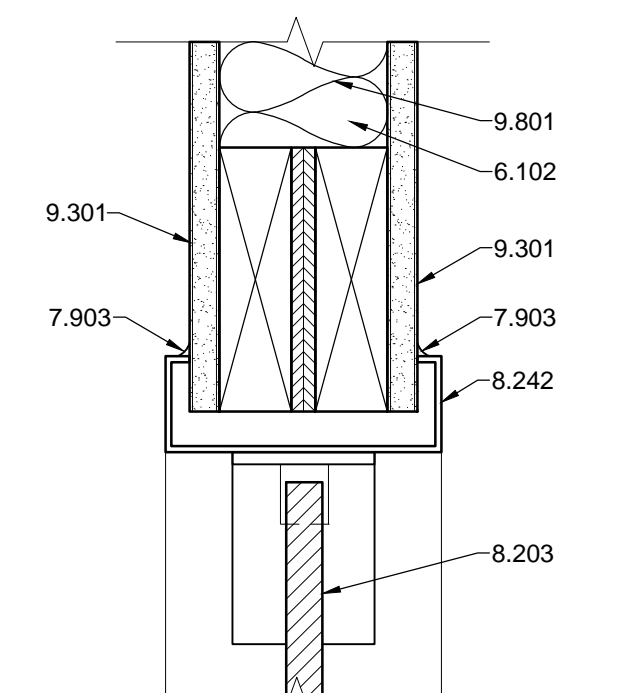
INITIALS	REVIEWS
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 PROJECT NO.: 1107  
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**A504**  
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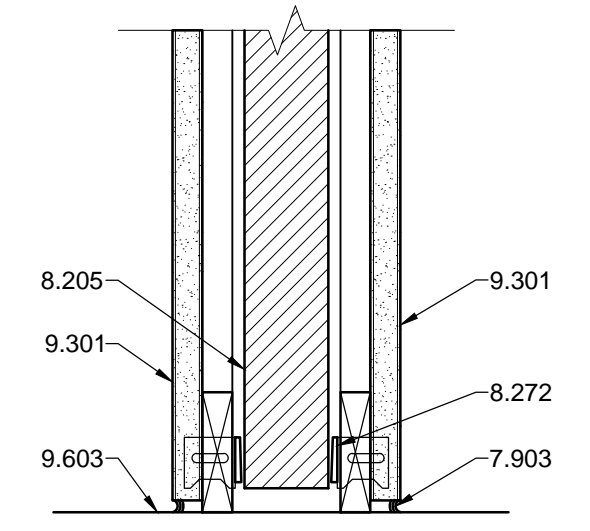
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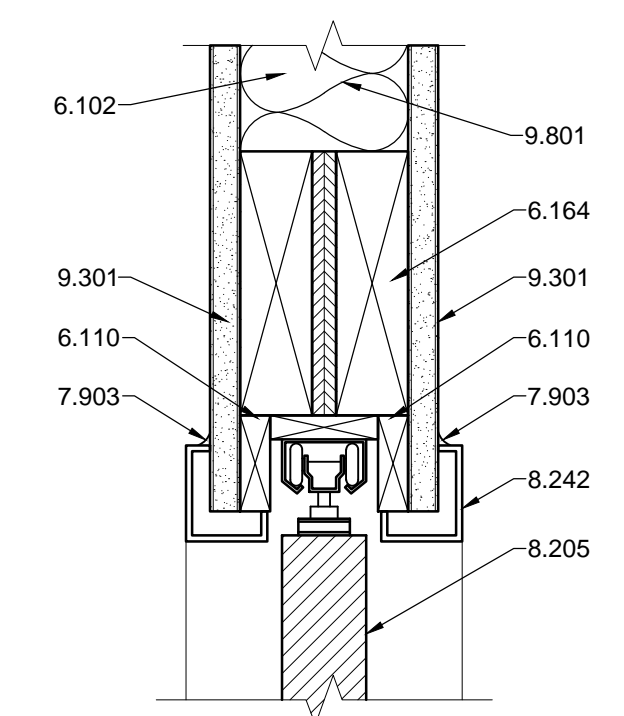
**G1 INT. DOOR JAMB**  
3"=1'-0"



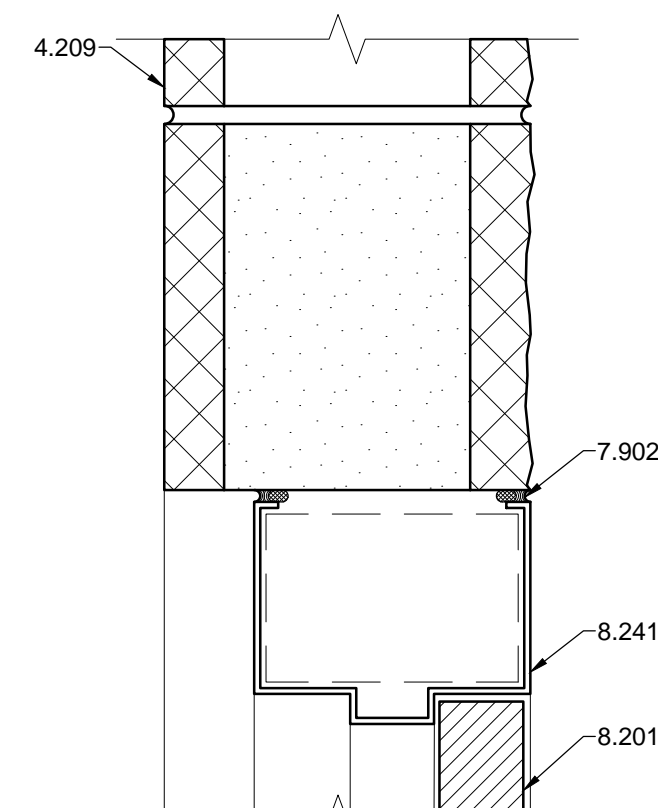
**G3 INT. DOOR HEAD**  
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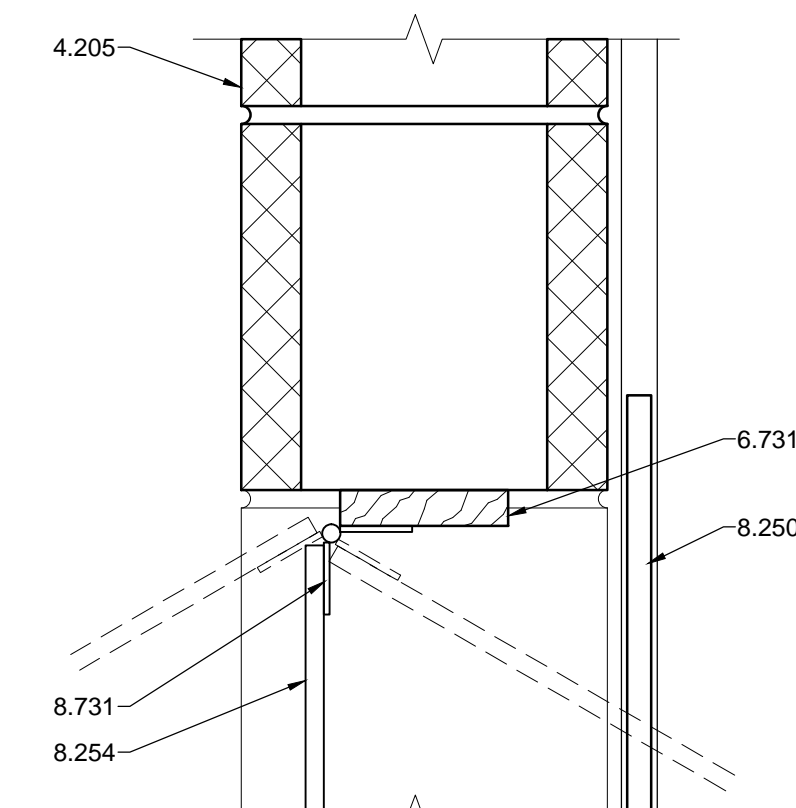
**G5 INT. DOOR SILL**  
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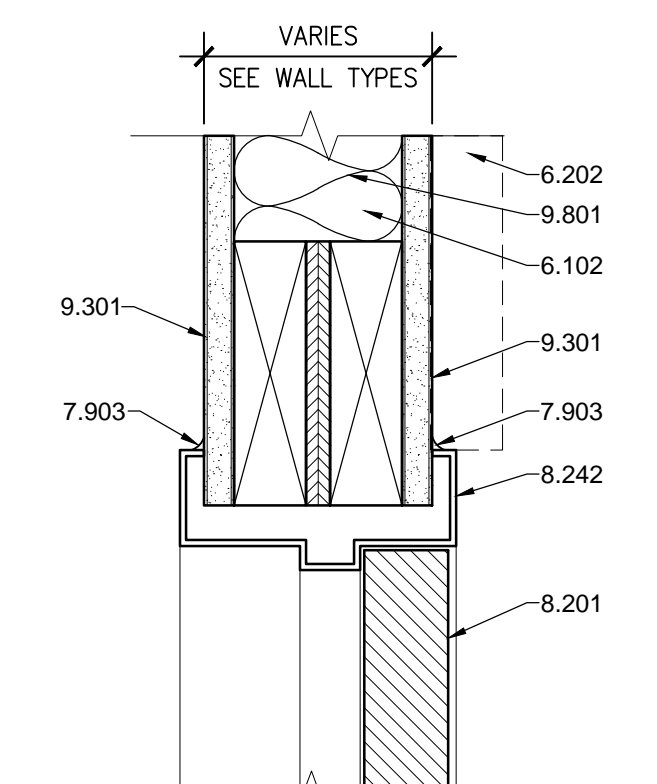
**G7 INT. DOOR HEAD**  
3"=1'-0"



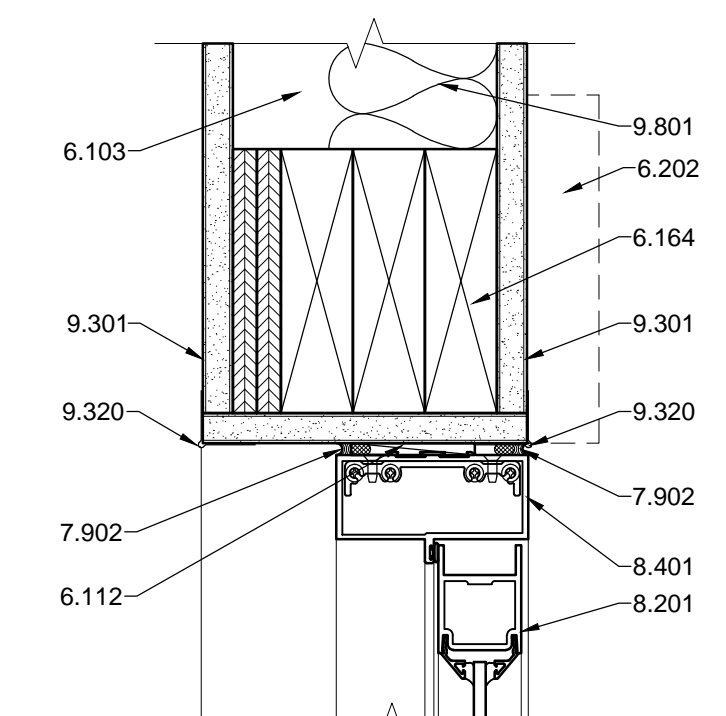
**E1 EXT. DOOR HEAD**  
3"=1'-0"



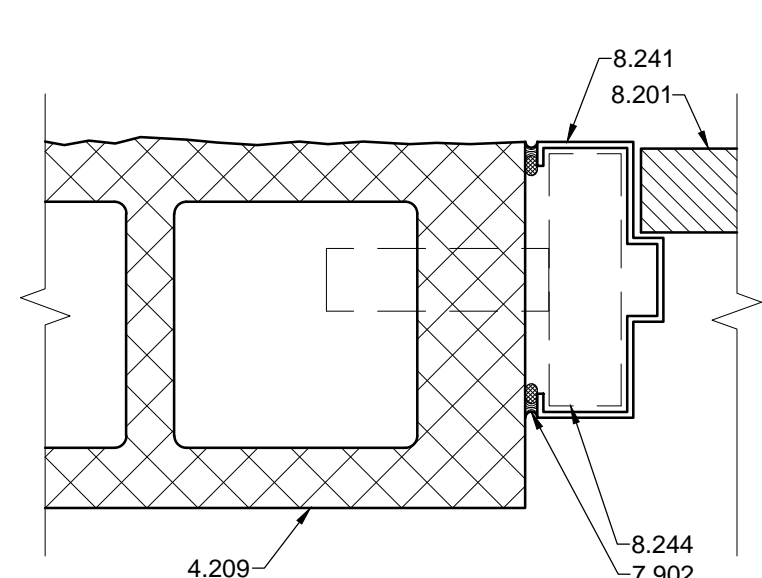
**E3 EXT. DOOR HEAD**  
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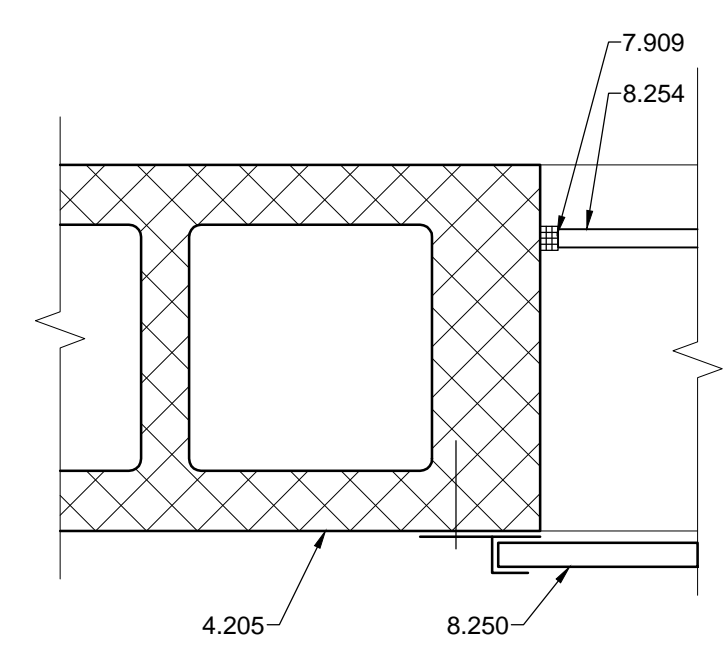
**E5 INT. DOOR HEAD**  
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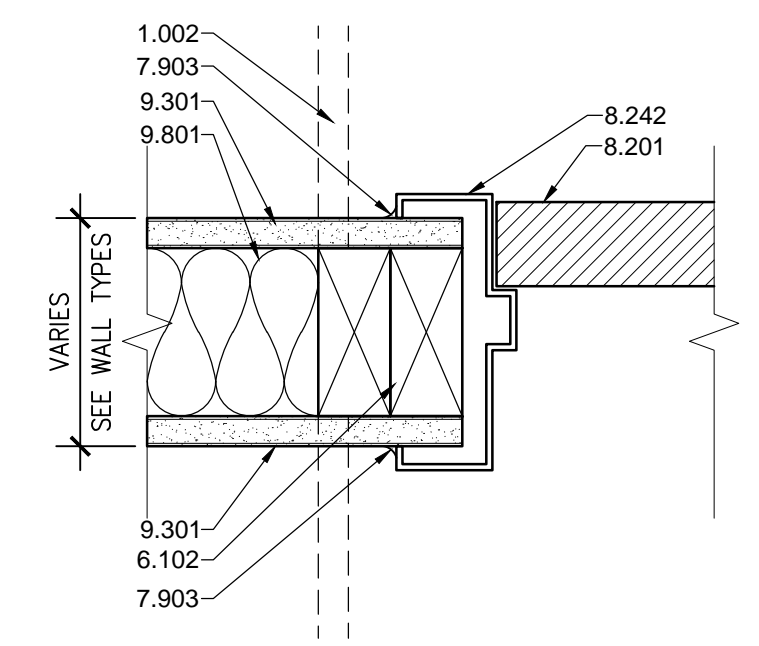
**E7 INT. DOOR HEAD**  
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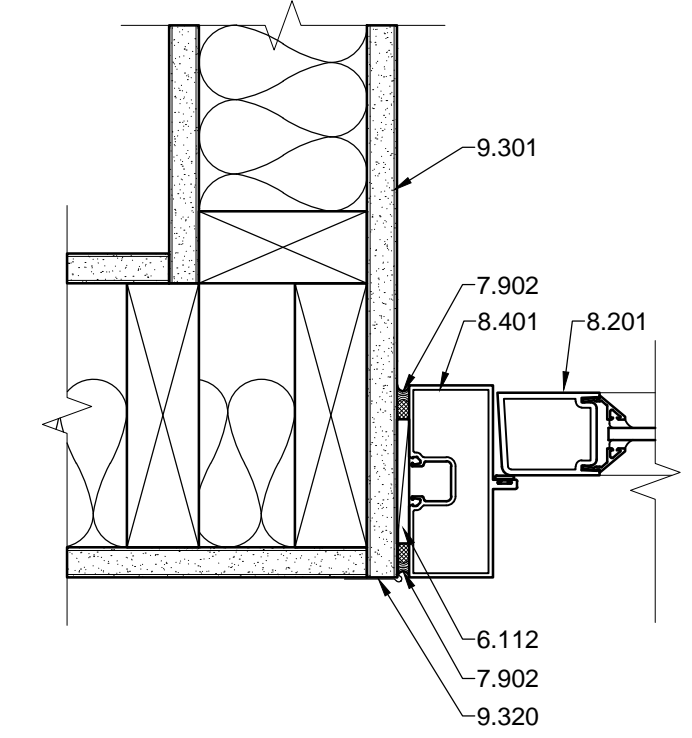
**C1 EXT. DOOR JAMB**  
3"=1'-0"



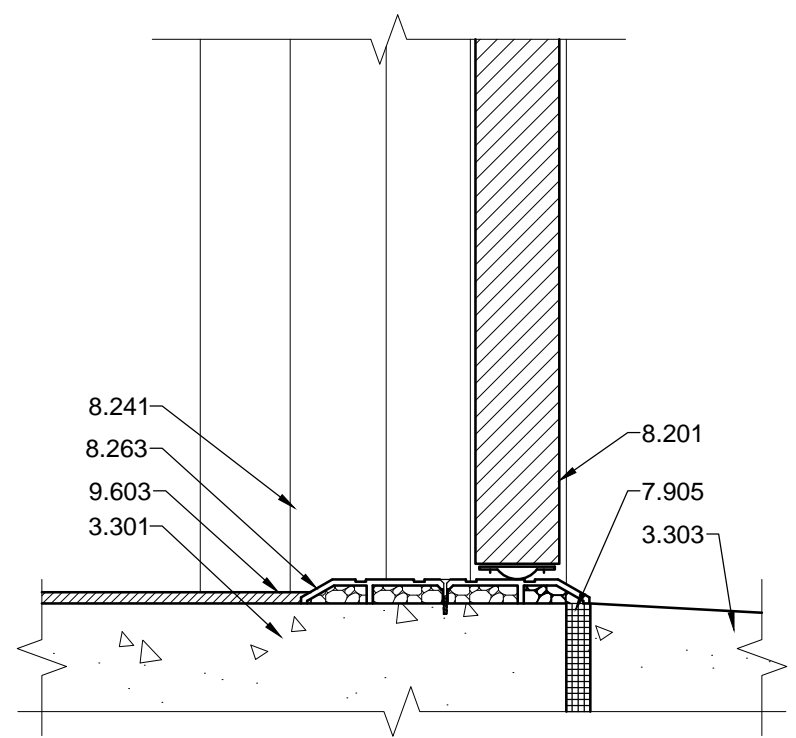
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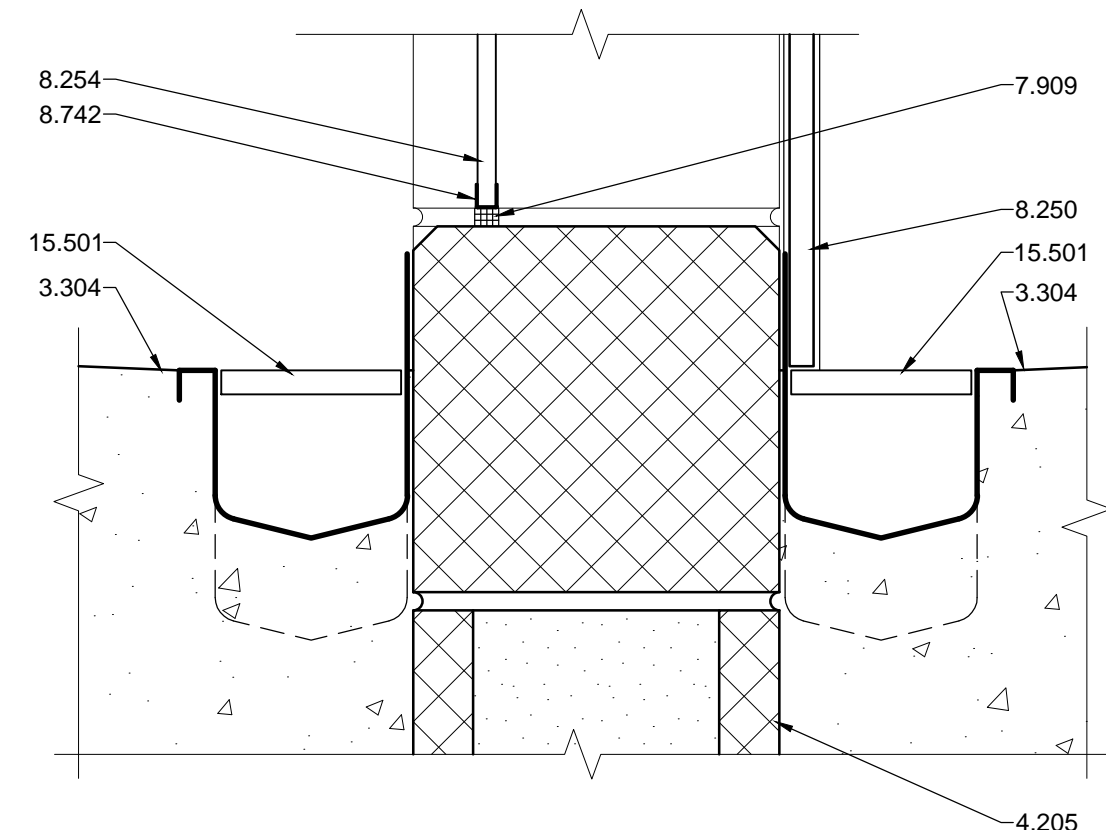
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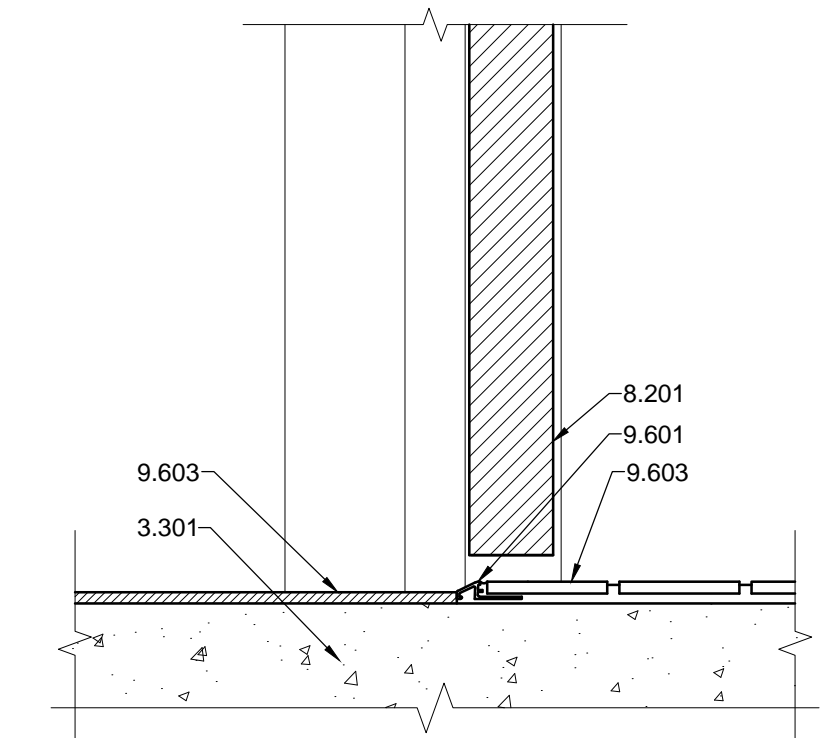
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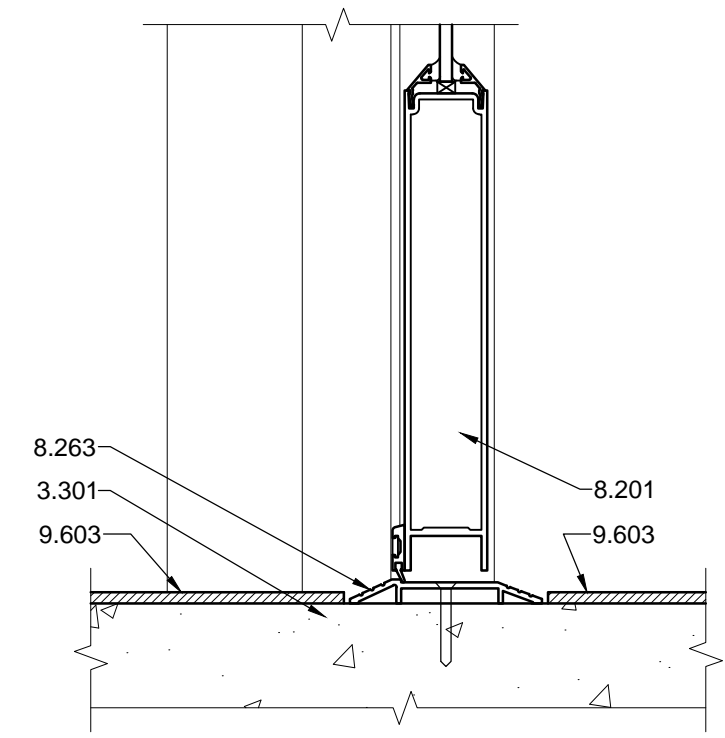
**A1 EXT. DOOR SILL**  
3"=1'-0"



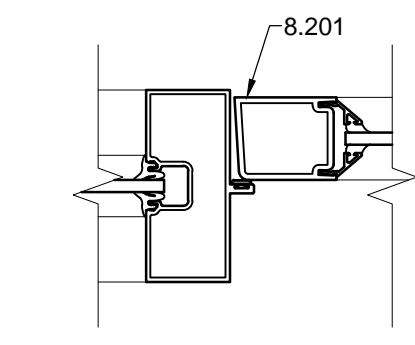
**A3 EXT. DOOR SILL**  
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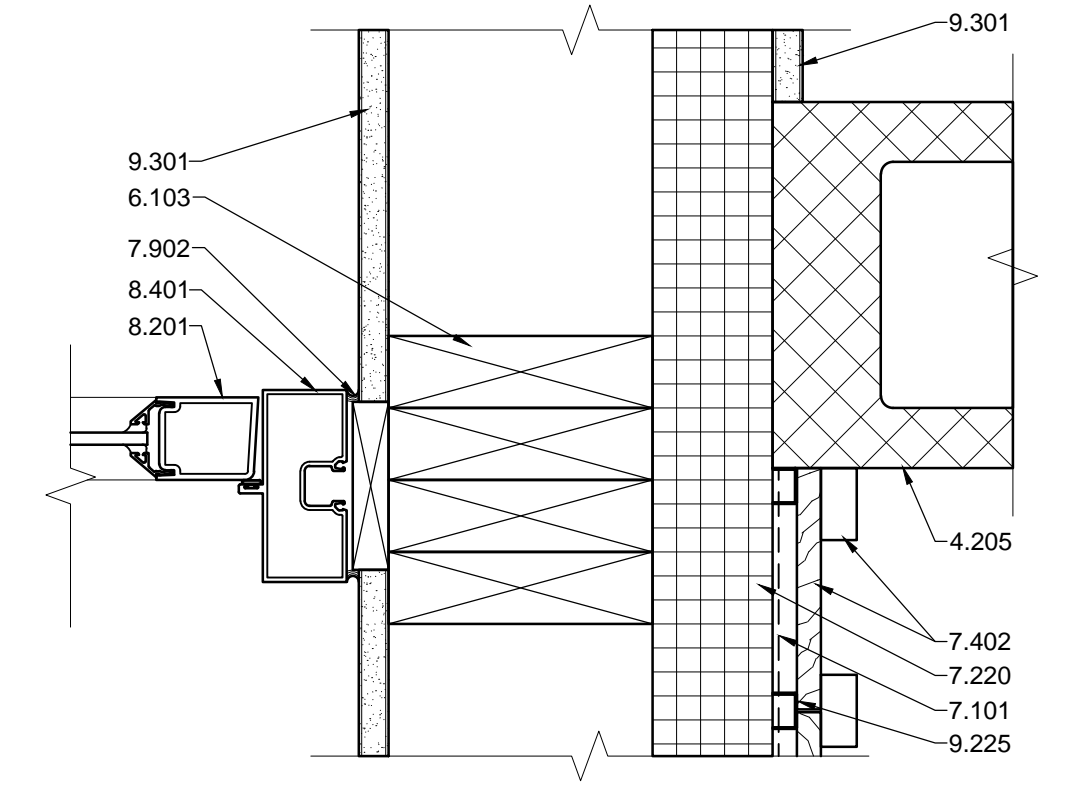
**A5 INT. DOOR SILL**  
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**A7 INT. DOOR SILL**  
3"=1'-0"



**A9 INT. DOOR JAMB**  
3"=1'-0"



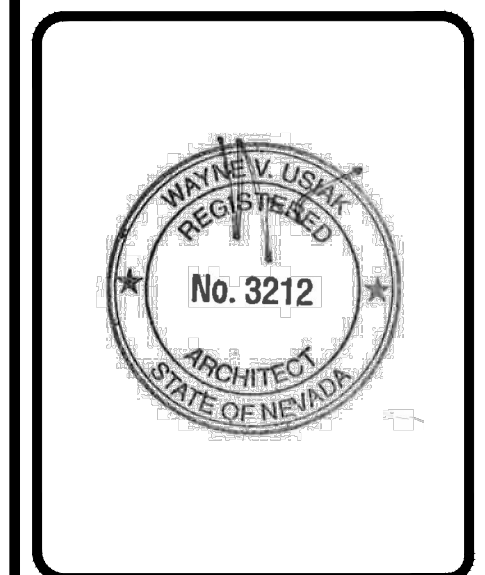
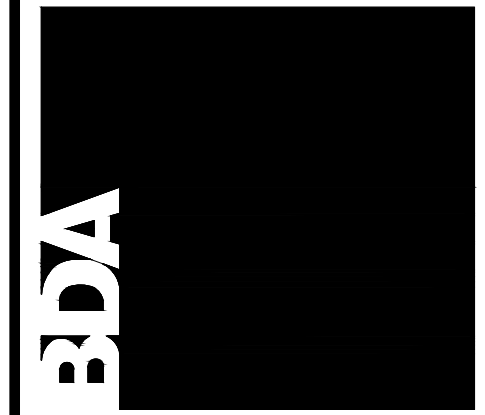
**A10 INT. DOOR JAMB**  
3"=1'-0"

**REFERENCE KEYNOTES**

- DIVISION 01 - GENERAL REQUIREMENTS
  - 1.002 - LINE OF ADJACENT WALL
- DIVISION 03 - CONCRETE
  - 3.301 - CONCRETE SLAB - SEE STRUCTURAL
  - 3.303 - CONCRETE STOOP
  - 3.304 - SLOPE FLOOR TO DRAIN
- DIVISION 04 - MASONRY
  - 4.205 - 8" CONCRETE MASONRY UNIT
  - 4.209 - SCORED SPLIT FACE CONCRETE MASONRY UNIT
- DIVISION 06 - WOOD AND PLASTICS
  - 6.102 - 2X4 WOOD STUD
  - 6.103 - 2X6 WOOD STUD
  - 6.110 - BLOCKING
  - 6.112 - SHIM
  - 6.164 - WOOD HEADER - SEE STRUCTURAL
  - 6.202 - ARCHITECTURAL TRIM
  - 6.731 - SOLID CELLULAR PVC TRIM
- DIVISION 07 - THERMAL AND MOISTURE PROTECTION
  - 7.101 - WEATHER RESISTANT BARRIER
  - 7.220 - RIGID INSULATION
  - 7.402 - BOARD AND BATTEN SIDING
  - 7.902 - BACKER ROD AND SEALANT
  - 7.903 - CAULK
  - 7.905 - 1/2" EXPANSION JOINT
  - 7.909 - FELT WEATHER STRIPPING
- DIVISION 08 - OPENINGS
  - 8.201 - DOOR AS SCHEDULED
  - 8.203 - ELIASON DOOR AS SCHEDULED
  - 8.205 - POCKET DOOR AS SCHEDULED
  - 8.241 - HOLLOW METAL FRAME AS SCHEDULED
  - 8.242 - KNOCK-DOWN STEEL FRAME AS SCHEDULED
  - 8.244 - DOOR FRAME ANCHOR - 3 PER JAMB
  - 8.250 - GUILLOTINE DOOR
  - 8.254 - SWING KENNEL DOOR
  - 8.263 - ANCHORED METAL THRESHOLD SET IN BED OF SEALANT
  - 8.272 - POCKET DOOR BUMPERS - INSTALL PER MANUFACTURER
  - 8.401 - STOREFRONT SYSTEM
  - 8.731 - CONTINUOUS PIANO HINGE
  - 8.742 - METAL PANEL EDGE
- DIVISION 09 - FINISHES
  - 9.225 - METAL FURRING
  - 9.301 - 5/8" GYPSUM BOARD
  - 9.320 - CORNER BEAD
  - 9.601 - TRANSITION STRIP
  - 9.603 - FLOOR FINISH AS SCHEDULED
  - 9.801 - SOUND ATTENUATION BATT
- DIVISION 15 - MECHANICAL
  - 15.501 - TRENCH DRAIN

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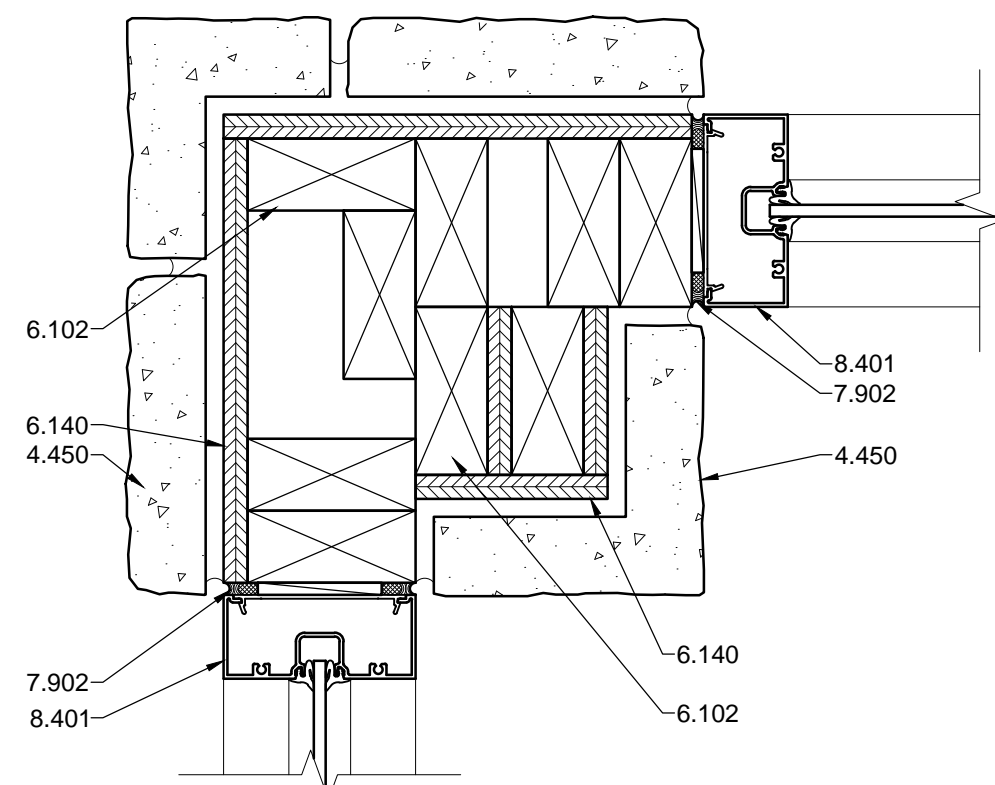
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REVISION:	DATE	COMMENTS

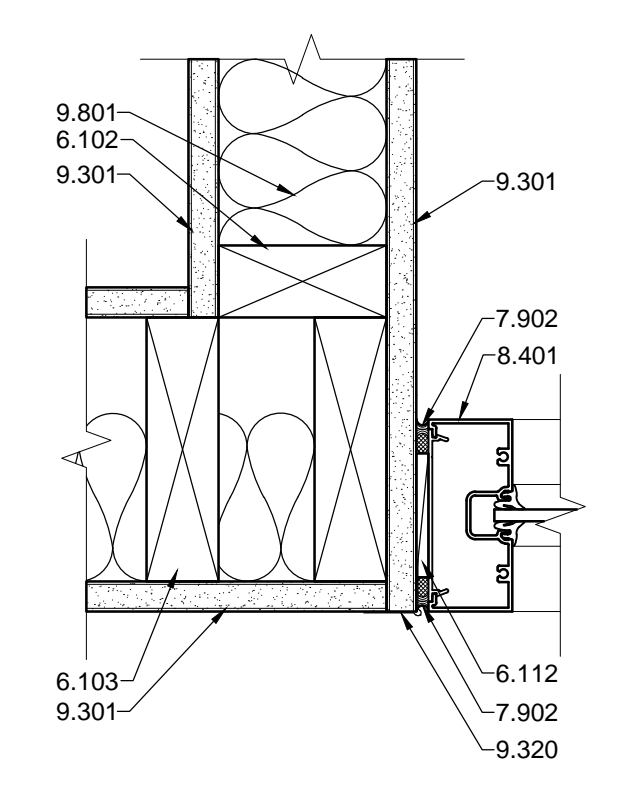
INITIALS	REVIEWS
	BDA DSGN. REV.
	BDA TECH. REV.

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 DRAWN: -  
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**A505**  
 OF -

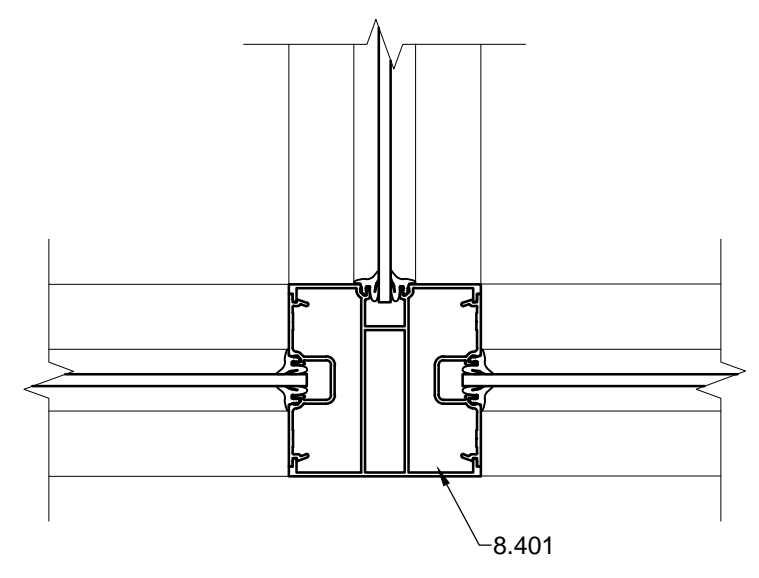
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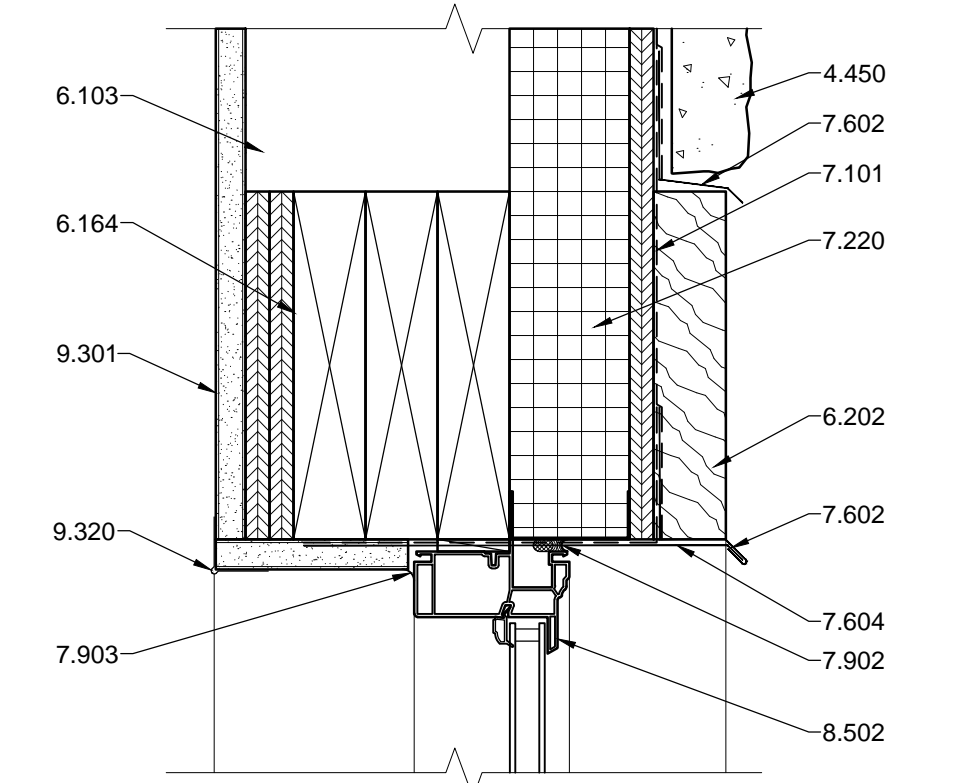
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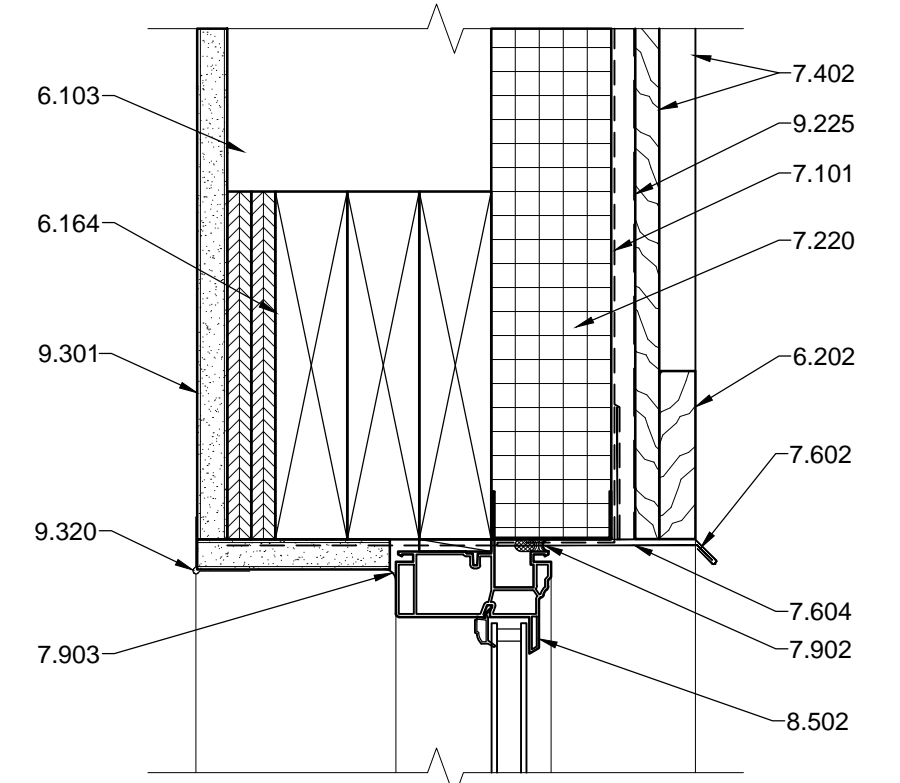
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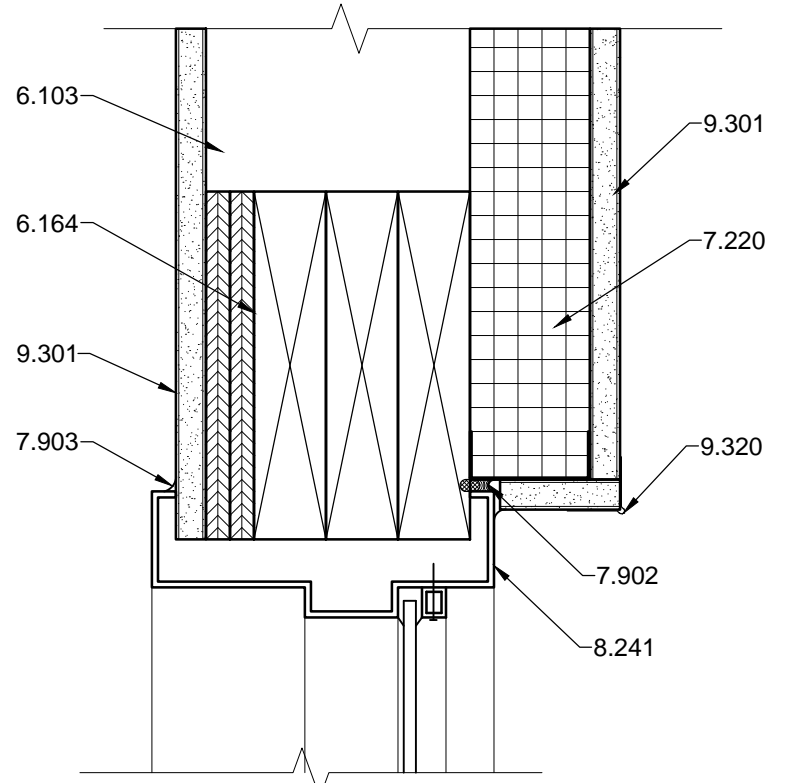
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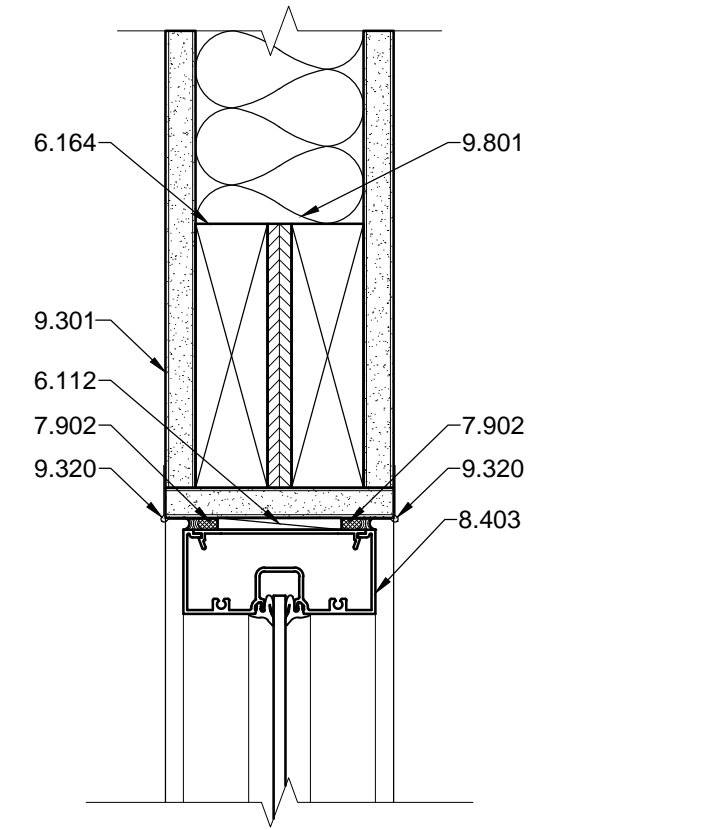
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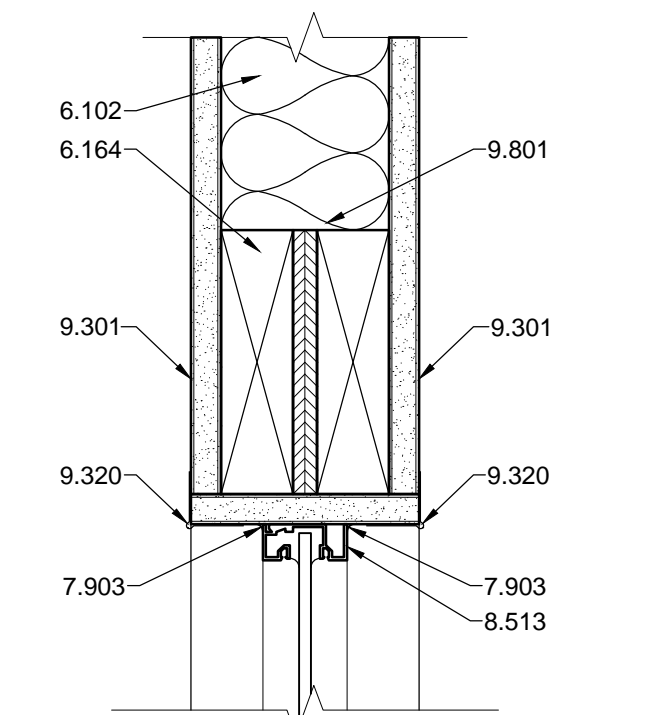
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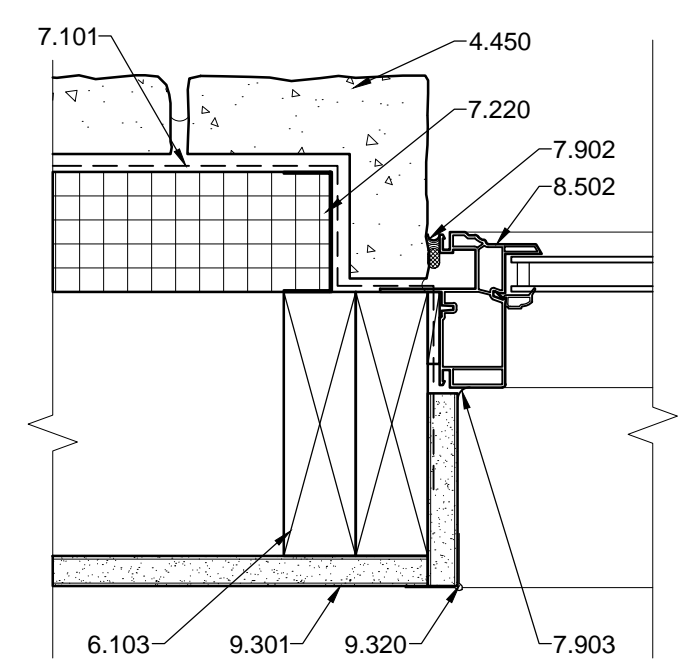
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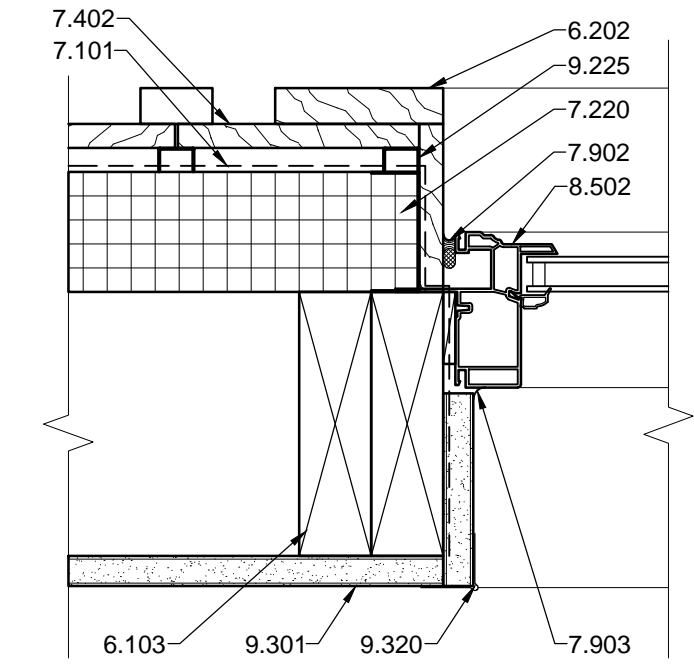
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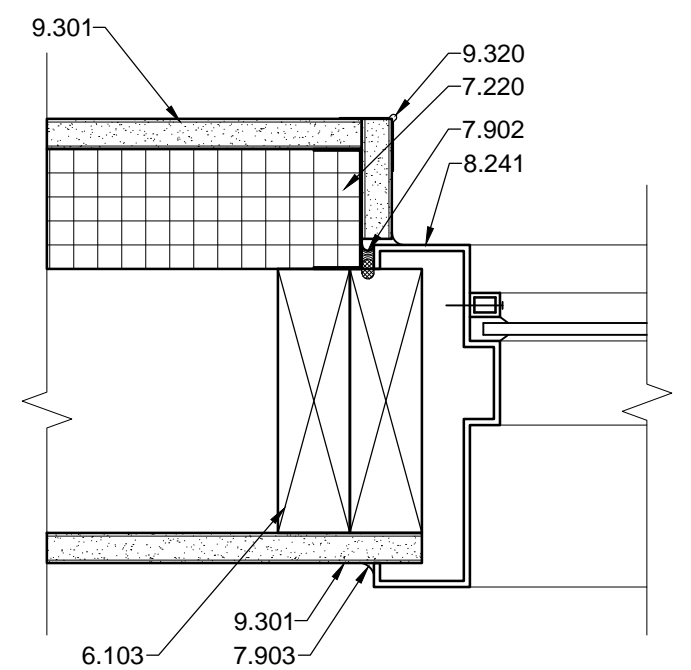
**E9 INT. WINDOW HEAD**  
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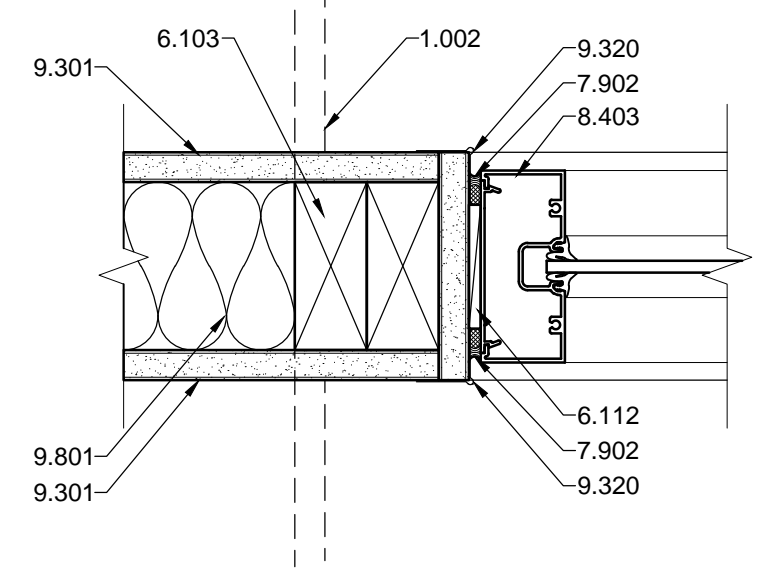
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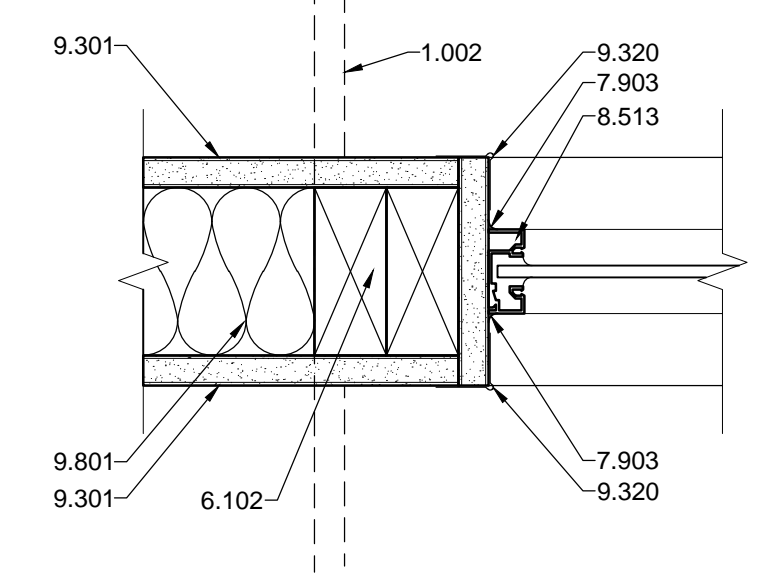
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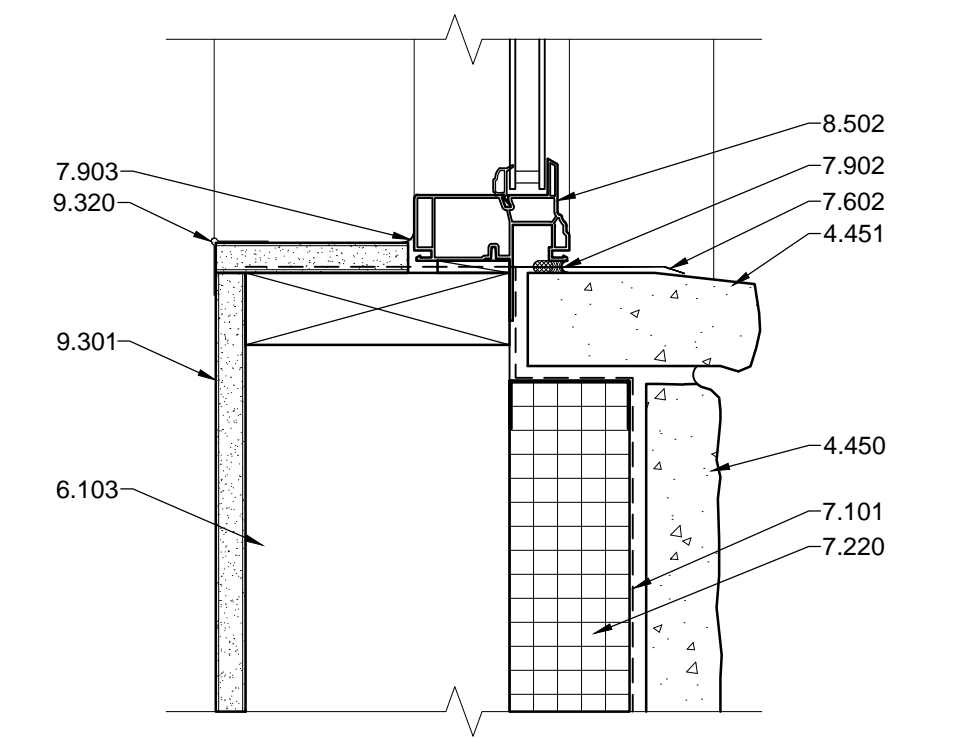
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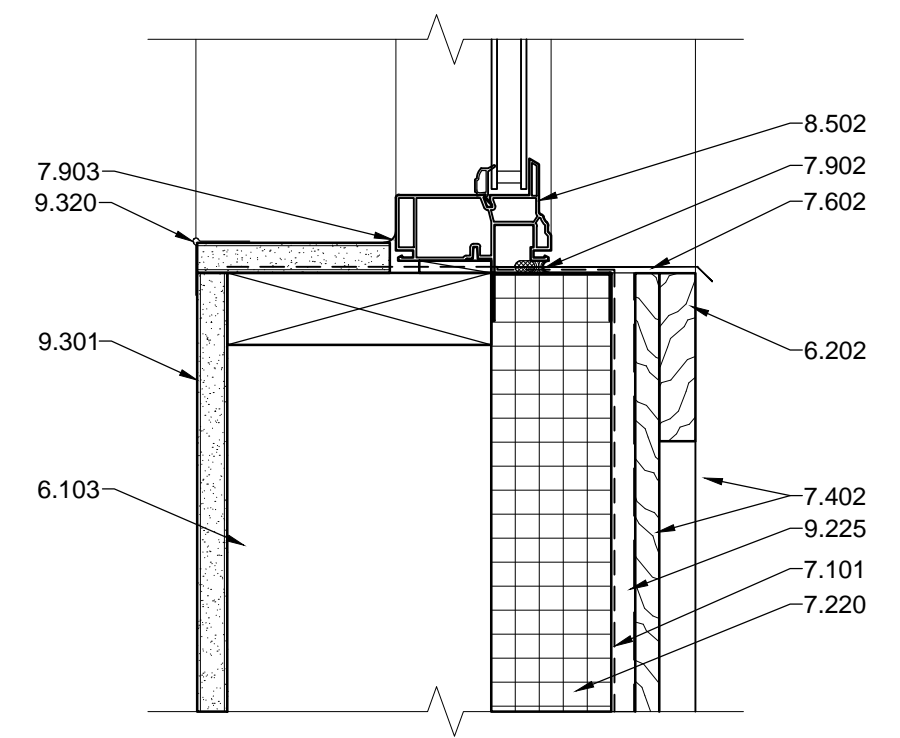
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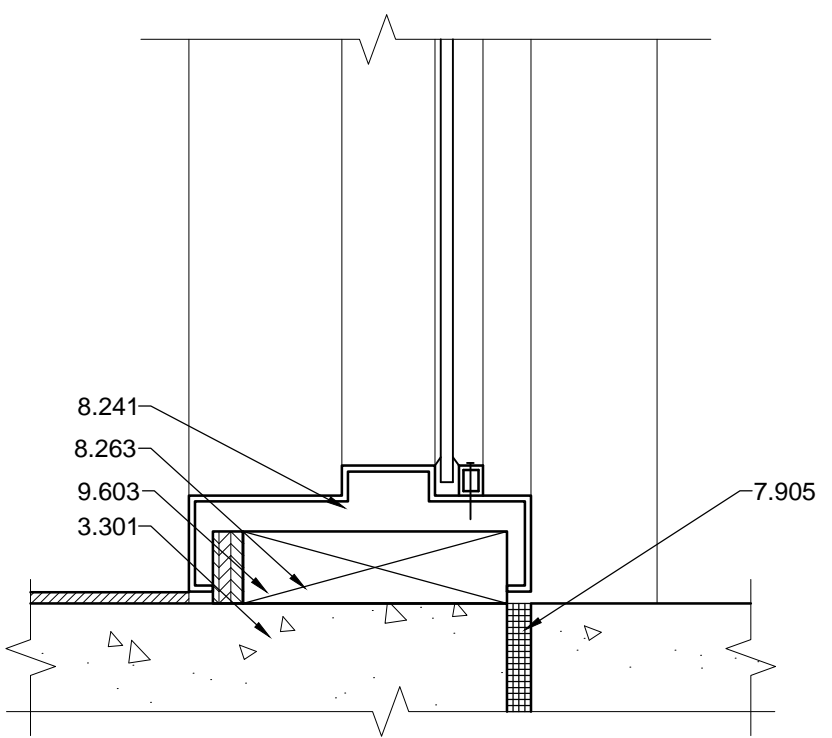
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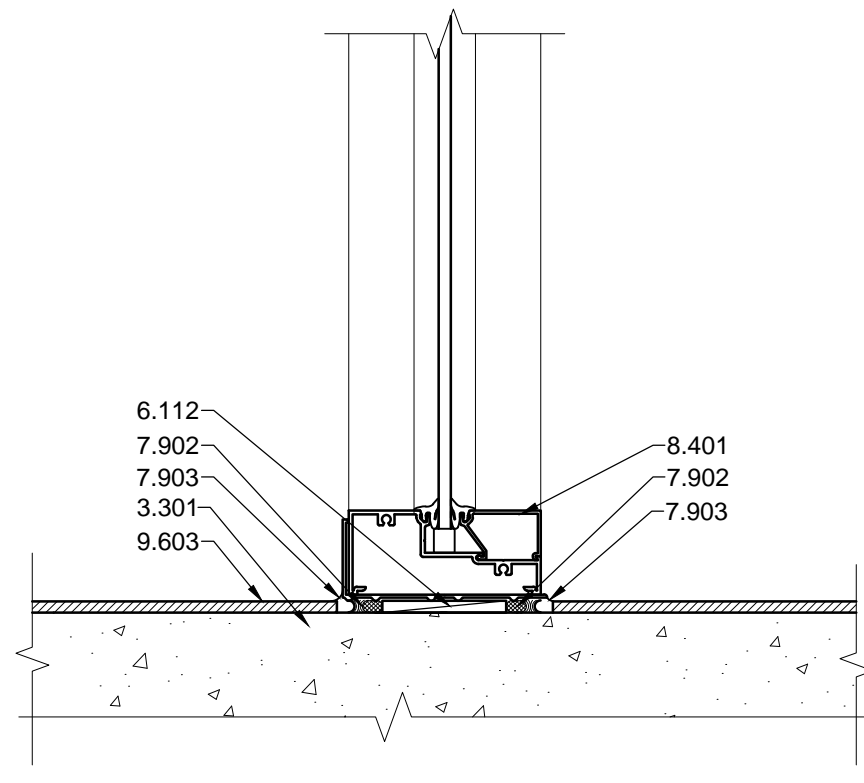
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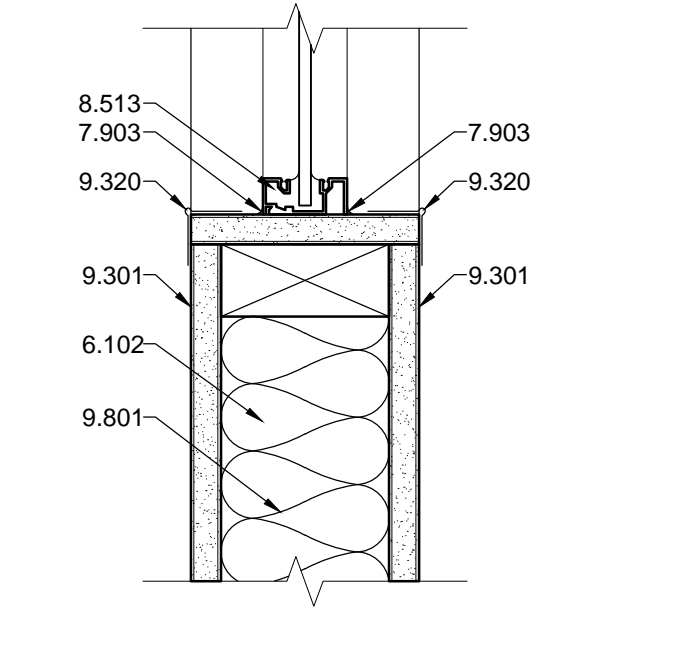
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3"=1'-0"



**A5 INT. WINDOW SILL**  
3"=1'-0"



**A7 INT. WINDOW SILL**  
3"=1'-0"



**A9 INT. WINDOW SILL**  
3"=1'-0"

**REFERENCE KEYNOTES**

- DIVISION 01 - GENERAL REQUIREMENTS
  - 1.002 - LINE OF ADJACENT WALL
- DIVISION 03 - CONCRETE
  - 3.301 - CONCRETE SLAB - SEE STRUCTURAL
- DIVISION 04 - MASONRY
  - 4.450 - MANUFACTURED STONE VENEER
  - 4.451 - MANUFACTURED STONE SILL
- DIVISION 06 - WOOD AND PLASTICS
  - 6.102 - 2X4 WOOD STUD
  - 6.103 - 2X6 WOOD STUD
  - 6.112 - SHIM
  - 6.140 - SHEATHING
  - 6.164 - WOOD HEADER - SEE STRUCTURAL
  - 6.202 - ARCHITECTURAL TRIM

- DIVISION 07 - THERMAL AND MOISTURE PROTECTION
  - 7.101 - WEATHER RESISTANT BARRIER
  - 7.220 - RIGID INSULATION
  - 7.402 - BOARD AND BATTEN SIDING
  - 7.602 - METAL DRIP EDGE FLASHING
  - 7.604 - METAL FLASHING
  - 7.902 - BACKER ROD AND SEALANT
  - 7.903 - CAULK
  - 7.905 - 1/2" EXPANSION JOINT

- DIVISION 08 - OPENINGS
  - 8.241 - HOLLOW METAL FRAME AS SCHEDULED
  - 8.263 - ANCHORED METAL THRESHOLD SET IN BED OF SEALANT
  - 8.401 - STOREFRONT SYSTEM
  - 8.403 - STOREFRONT WINDOW SYSTEM
  - 8.502 - EXTERIOR VINYL WINDOW AS SCHEDULED
  - 8.513 - INTERIOR ALUMINUM WINDOW AS SCHEDULED

- DIVISION 09 - FINISHES
  - 9.225 - METAL FURRING
  - 9.301 - 5/8" GYPSUM BOARD
  - 9.320 - CORNER BEAD
  - 9.603 - FLOOR FINISH AS SCHEDULED
  - 9.801 - SOUND ATTENUATION BATT

**WINDOW DETAILS**

REV.#	DATE	COMMENTS

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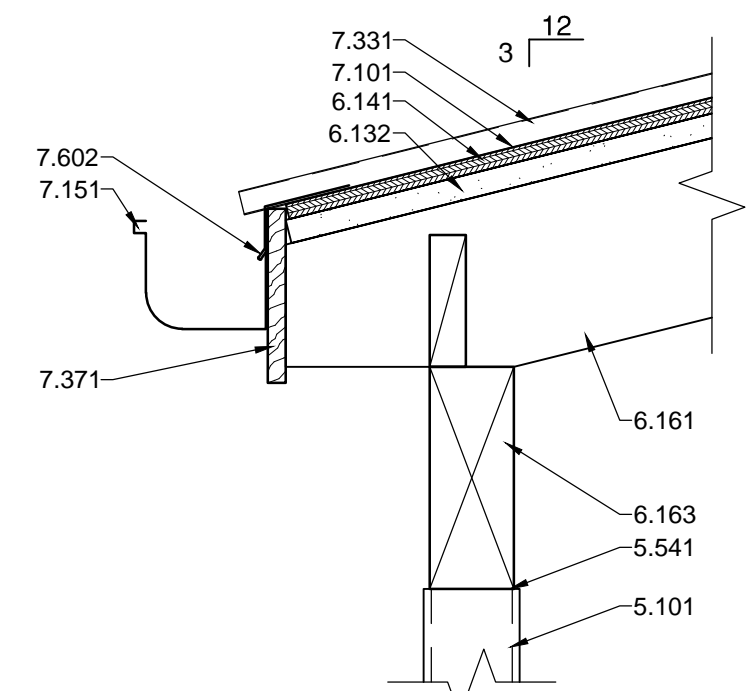
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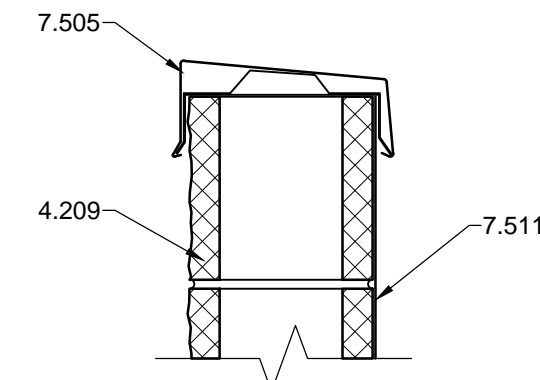
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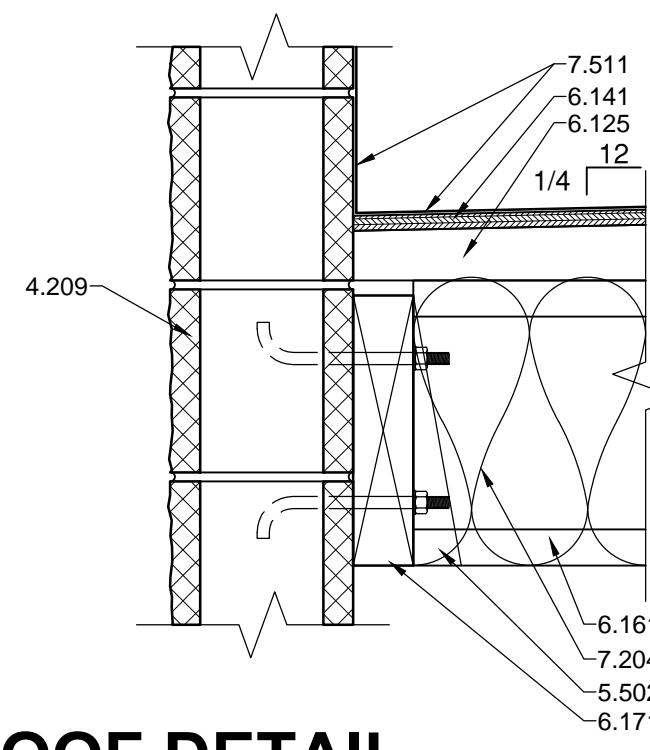
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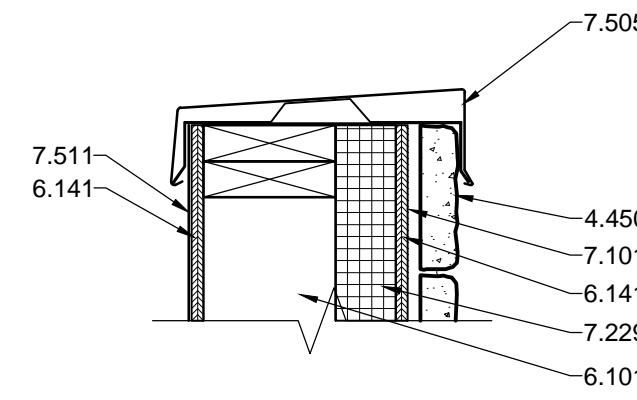
**G1 ROOF DETAIL**  
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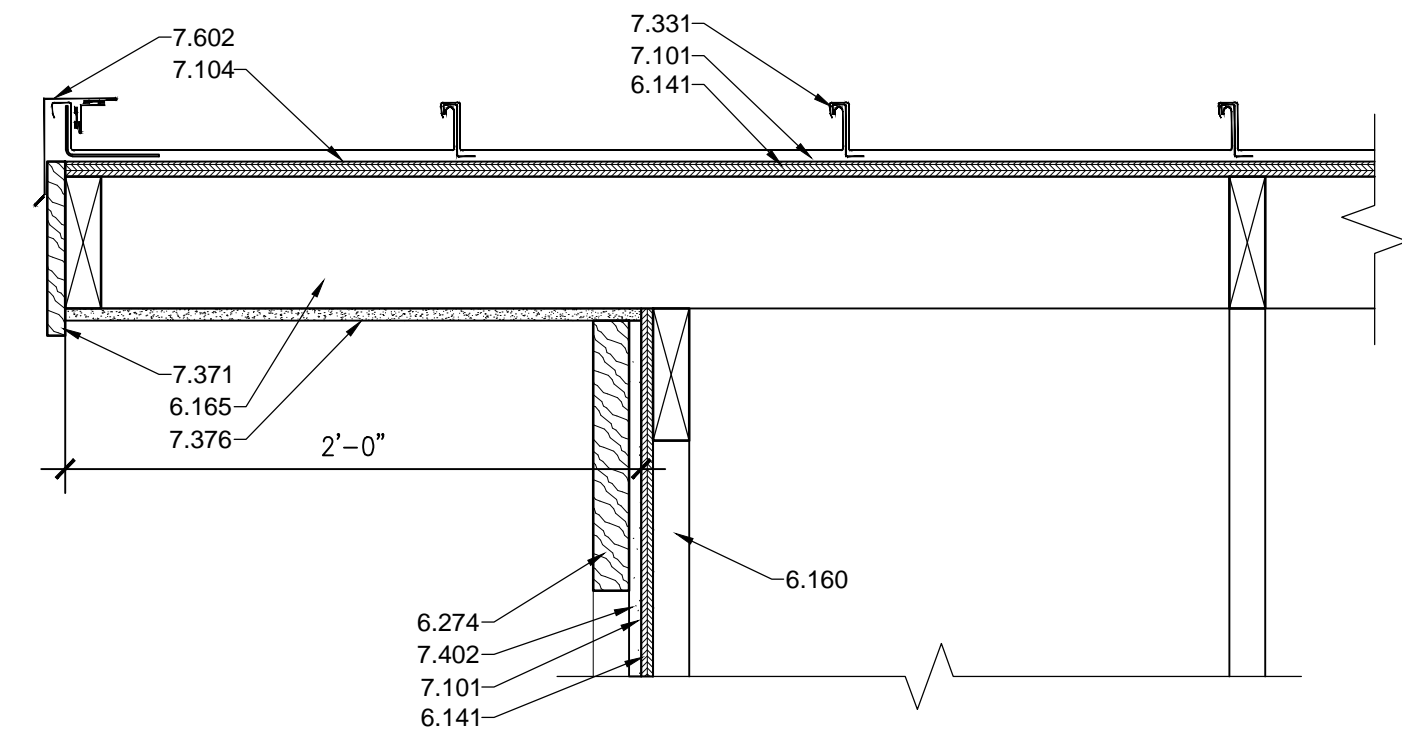
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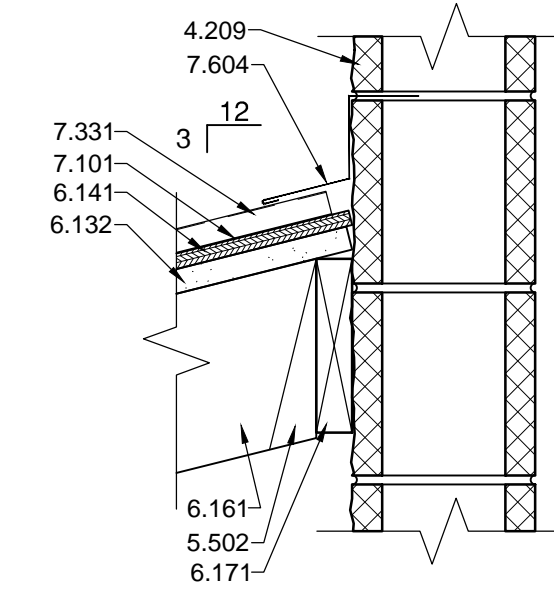
**G5 ROOF DETAIL**  
 1 1/2"=1'-0"



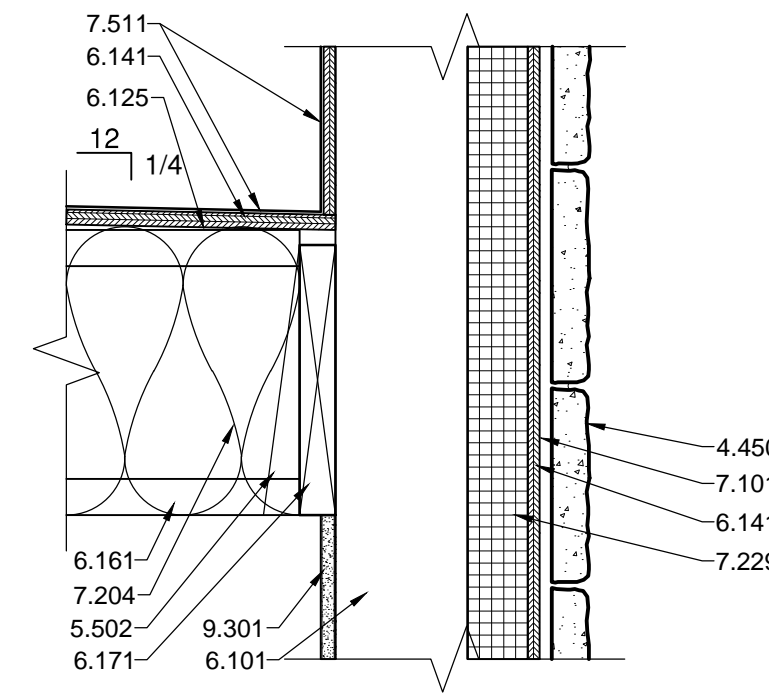
**G7 PARAPET DETAIL**  
 1 1/2"=1'-0"



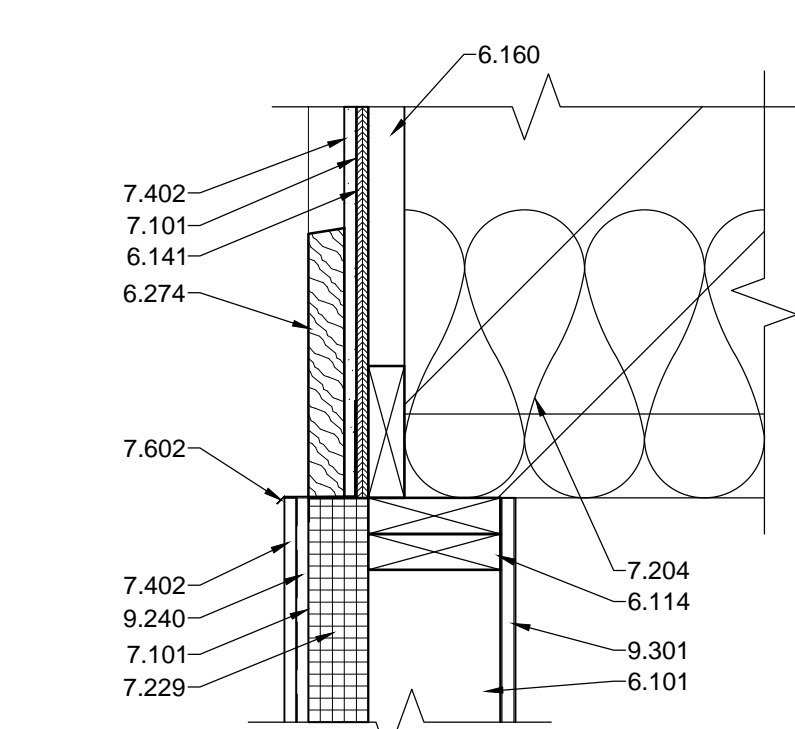
**E1 ROOF DETAIL**  
 1 1/2"=1'-0"



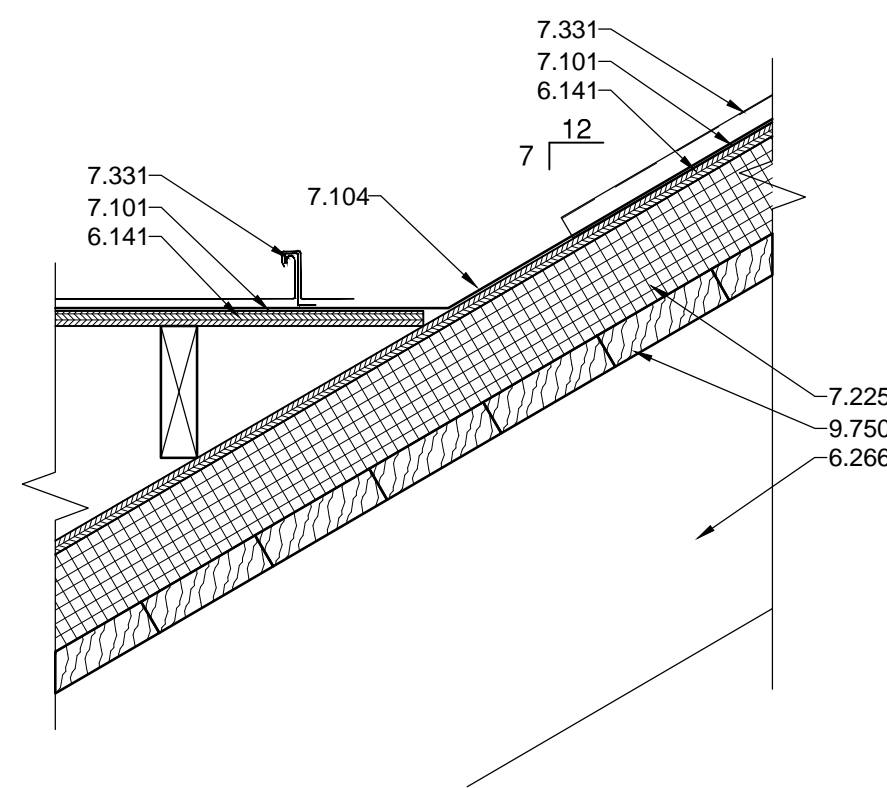
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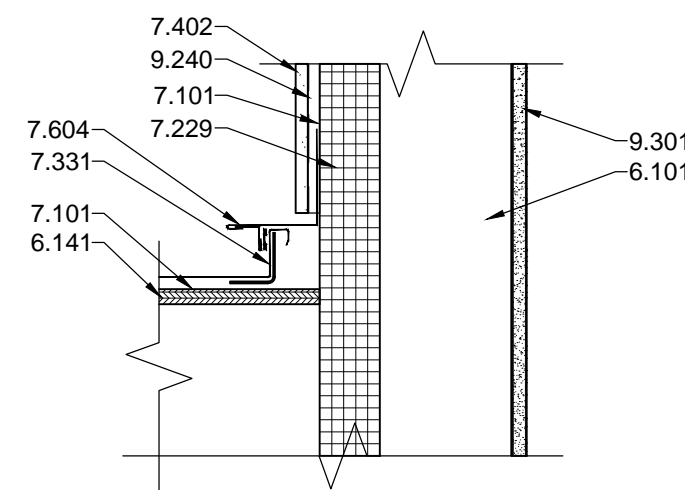
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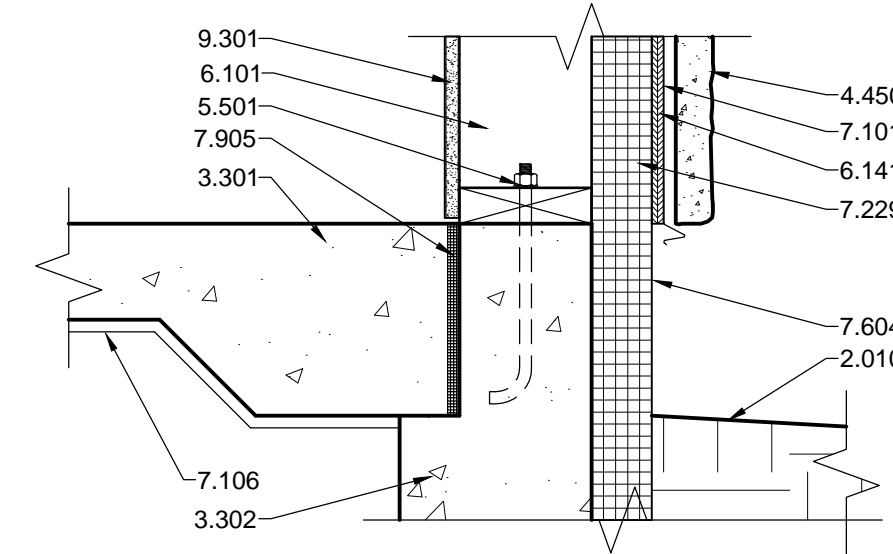
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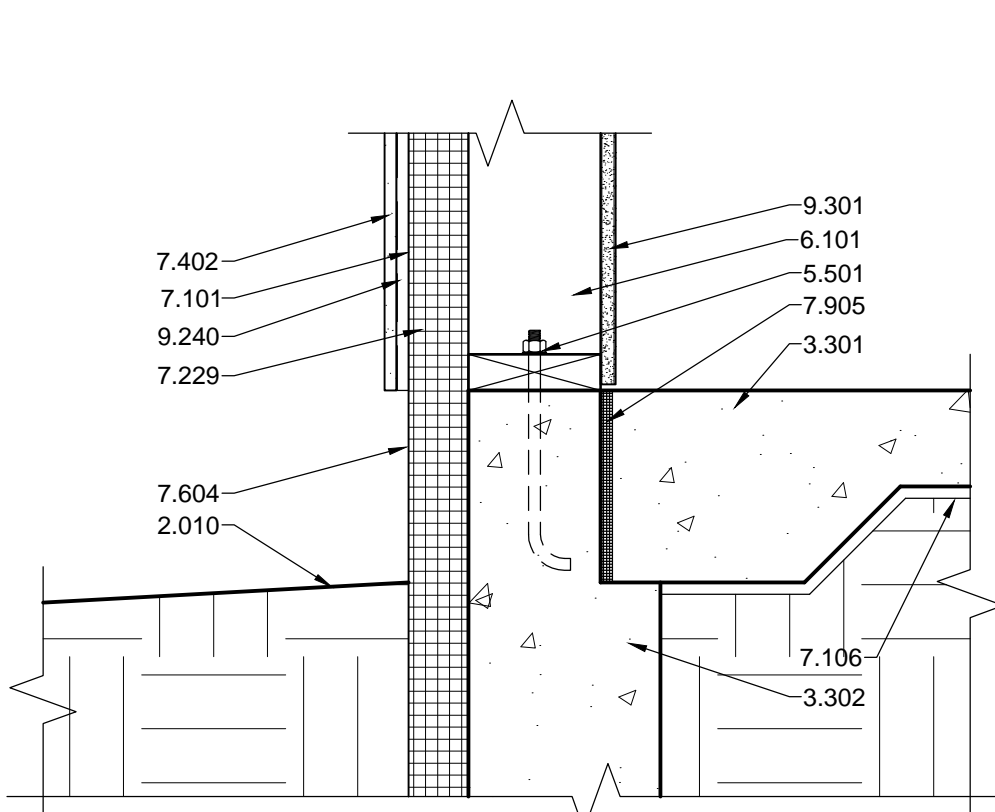
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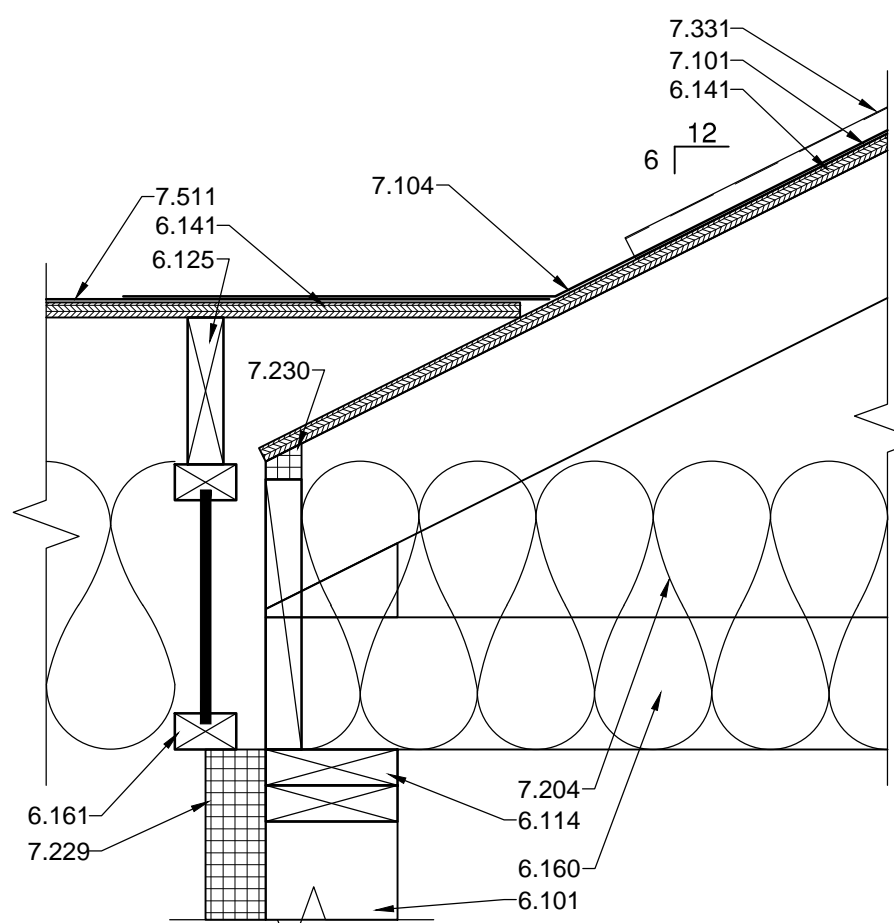
**C5 ROOF DETAIL**  
 1 1/2"=1'-0"



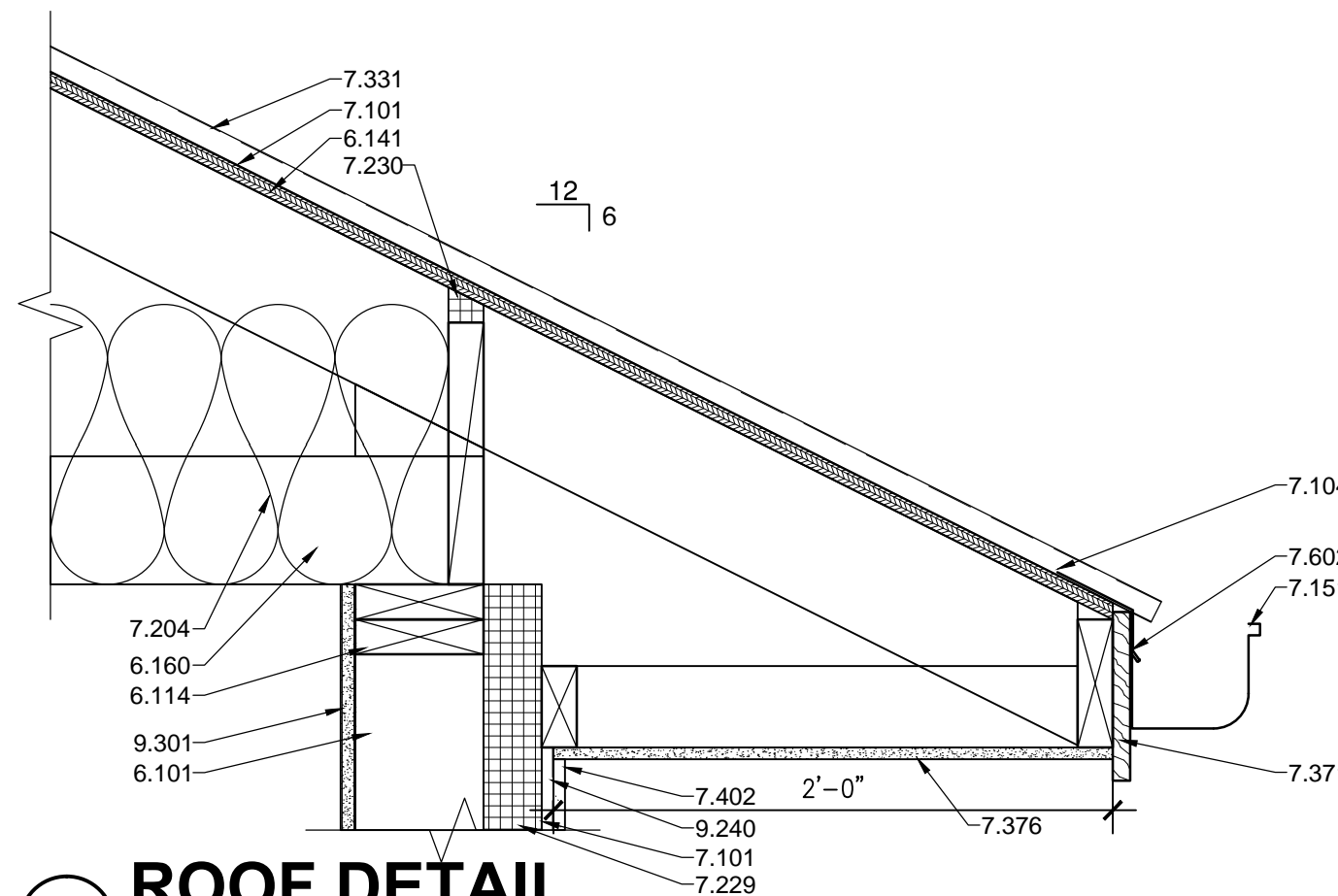
**C7 FOOTING DETAIL**  
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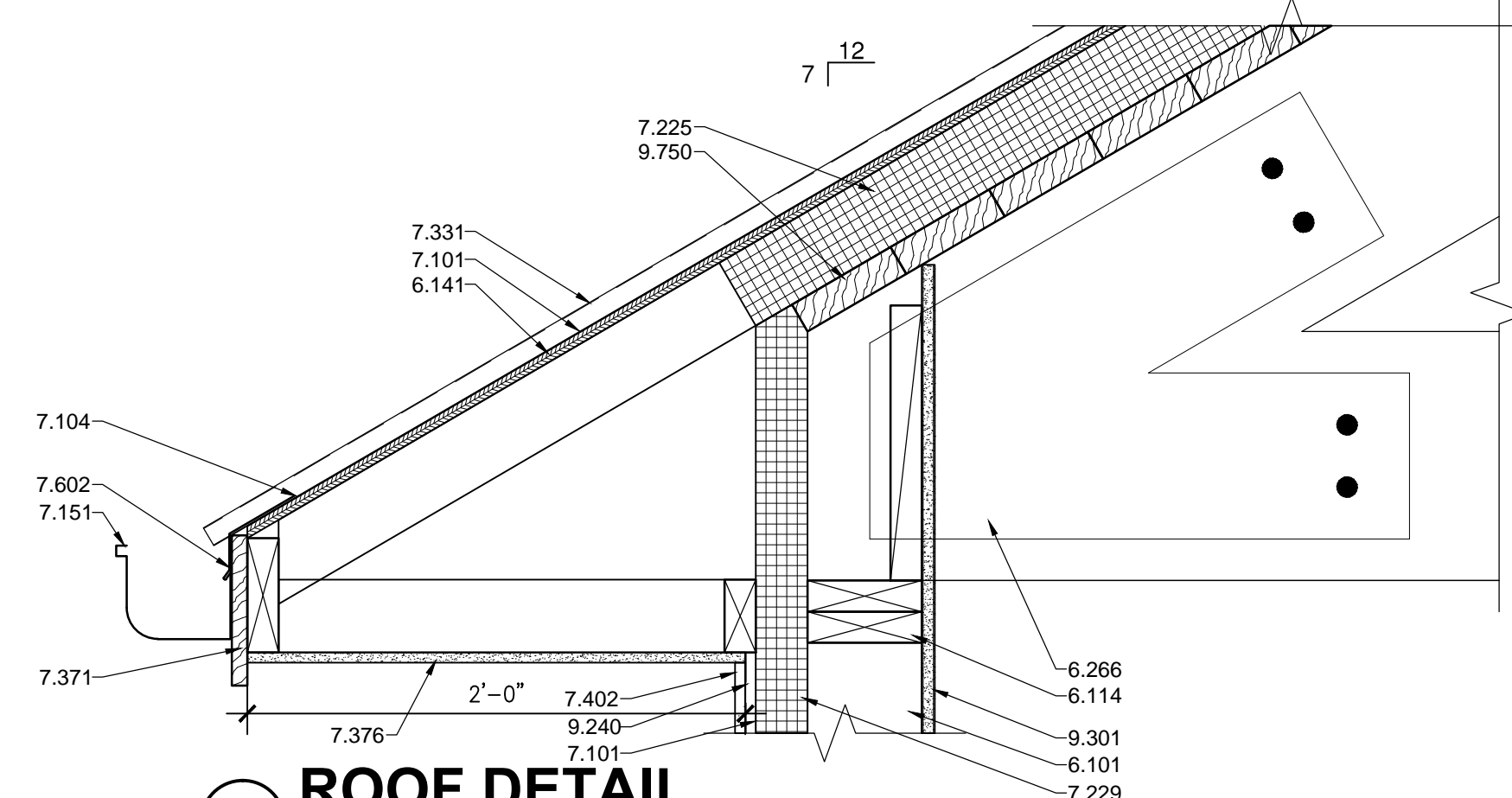
**A1 FOOTING DETAIL**  
 1 1/2"=1'-0"



**A3 ROOF DETAIL**  
 1 1/2"=1'-0"



**A5 ROOF DETAIL**  
 1 1/2"=1'-0"



**A8 ROOF DETAIL**  
 1 1/2"=1'-0"

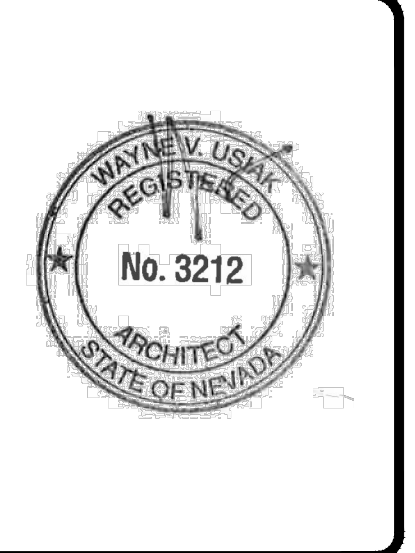
**REFERENCE KEYNOTES**

- DIVISION 02 - SITE CONSTRUCTION
  - 2.010 - EXISTING GRADE
- DIVISION 03 - CONCRETE
  - 3.301 - CONCRETE SLAB - SEE STRUCTURAL
  - 3.302 - CONCRETE FOOTING - SEE STRUCTURAL
- DIVISION 04 - MASONRY
  - 4.209 - SPLIT FACE CONCRETE MASONRY UNIT
  - 4.450 - MANUFACTURED STONE VENEER
- DIVISION 05 - METALS
  - 5.101 - STEEL COLUMN - SEE STRUCTURAL
  - 5.501 - ANCHOR BOLT - SEE STRUCTURAL
  - 5.502 - METAL HANGER
  - 5.541 - STEEL POST CAP
- DIVISION 06 - WOOD AND PLASTICS
  - 6.101 - WOOD FRAMING
  - 6.114 - DOUBLE TOP PLATE
  - 6.125 - RIPPERS
  - 6.132 - TECTUM PANEL
  - 6.141 - SHEATHING - SEE STRUCTURAL
  - 6.160 - WOOD TRUSS - SEE STRUCTURAL
  - 6.161 - WOOD JOIST - SEE STRUCTURAL
  - 6.163 - WOOD BEAM - SEE STRUCTURAL
  - 6.165 - OUTRIGGER - SEE STRUCTURAL
  - 6.171 - WOOD LEDGER - SEE STRUCTURAL
  - 6.266 - EXPOSED WOOD TRUSS
  - 6.274 - DECORATIVE WOOD TRUSS
- DIVISION 07 - THERMAL AND MOISTURE PROTECTION
  - 7.101 - WEATHER RESISTANT BARRIER
  - 7.104 - ICE AND WATER SHIELD
  - 7.106 - VAPOR BARRIER
  - 7.151 - ROOF GUTTER
  - 7.204 - R-38 BATT INSULATION
  - 7.225 - 3 1/2" RIGID INSULATION
  - 7.229 - 2 1/2" RIGID INSULATION
  - 7.230 - CORAVENT
  - 7.331 - METAL ROOF PANEL SYSTEM
  - 7.371 - 1X FASCIA
  - 7.376 - VENTED HARDIE BOARD SOFFIT
  - 7.402 - BOARD AND BATTEN SIDING
  - 7.505 - METAL CAP
  - 7.511 - EPDM ROOFING
  - 7.602 - METAL DRIP EDGE FLASHING
  - 7.604 - METAL FLASHING
  - 7.905 - 1/2" EXPANSION JOINT
- DIVISION 09 - FINISHES
  - 9.240 - 1/2" RESILIENT FURRING CHANNEL
  - 9.301 - 5/8" GYPSUM BOARD
  - 9.750 - TONGUE AND GROVE WOOD CEILING

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**ROOF AND WALL DETAILS**

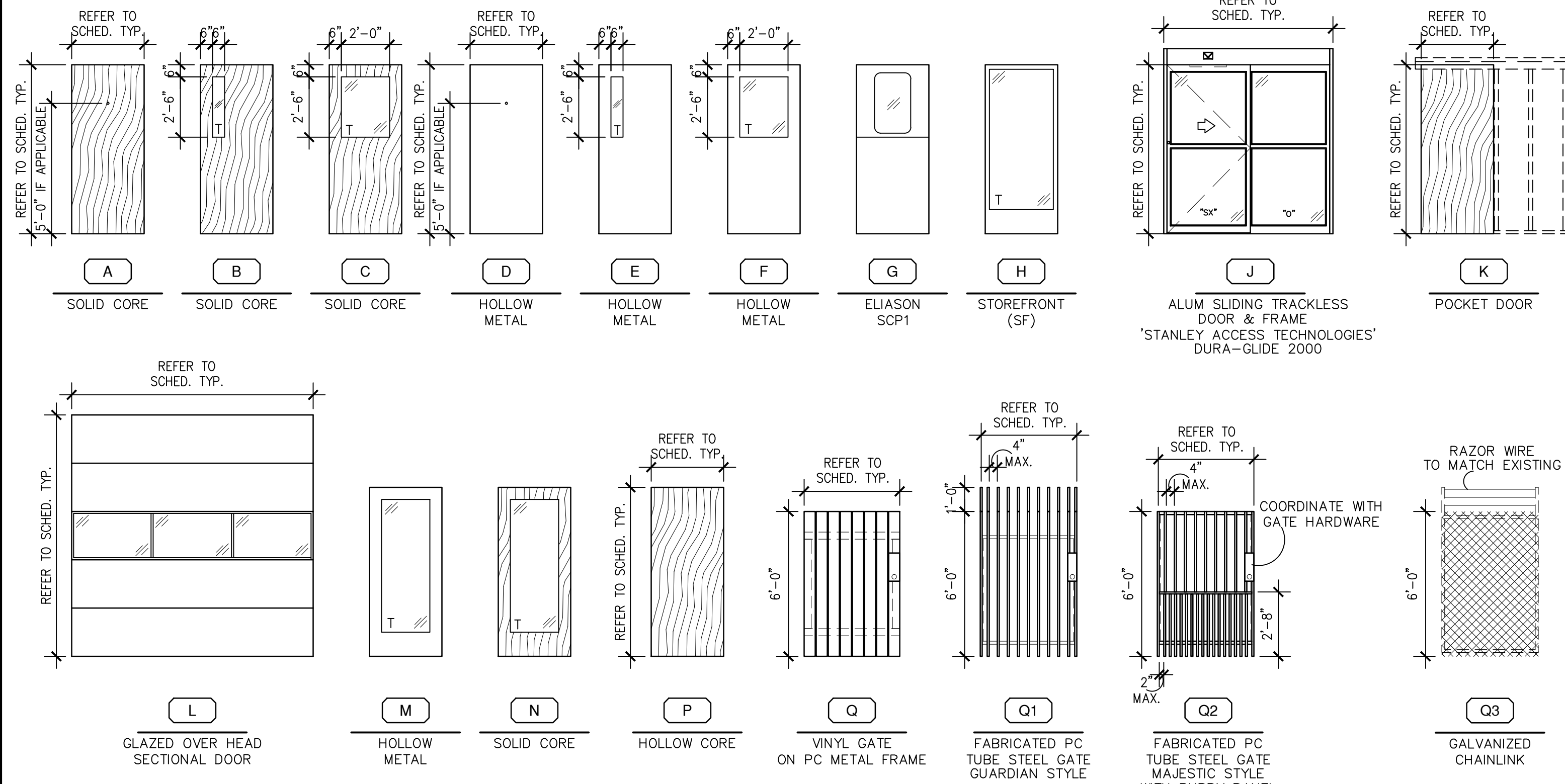
REV.#	DATE	COMMENTS

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INITIALS	
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 OF -

DOOR AND FRAME TYPES, HARDWARE LOCK SET GROUPS

N.T.S.

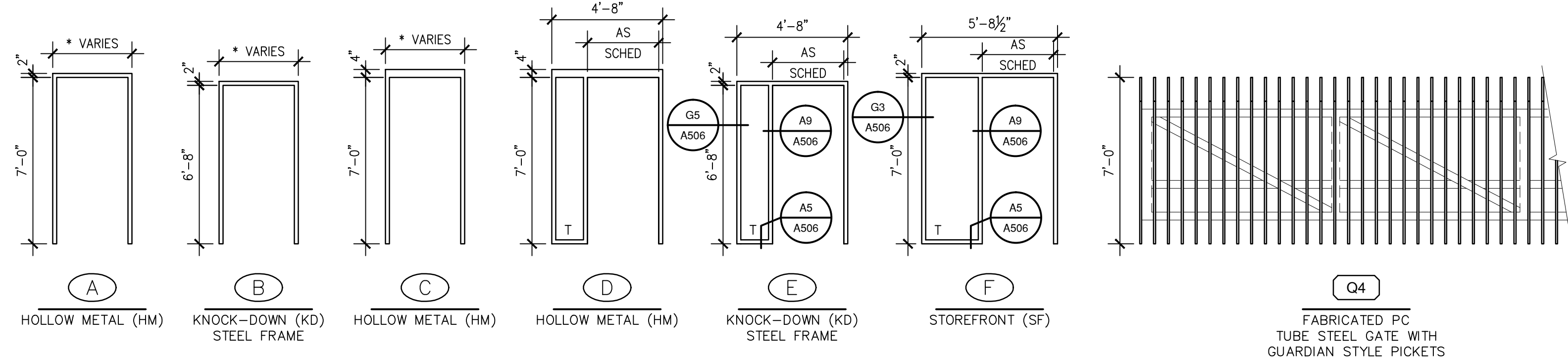


DOOR TYPES

NOTES: VERIFY ALL DOOR TYPES PRIOR TO CONST.

NOTE: PC = POWDER COATED FINISH

NOTE: GATE S4 & S8 TO MATCH CARSON CITY CORPORATE YARD - GUARDIAN STYLE CONTRACTOR TO VERIFY GATE DIMENSIONS AND DESIGN



DOOR FRAME TYPES

NOTES: 1. VERIFY ALL DOOR FRAME TYPES PRIOR TO CONST. 2. \* DENOTES DOOR SIZE + 4" - SEE DOOR SCHED. 3. ALL EXTERIOR WELDED HOLLOW METAL FRAMES SHALL BE MADE OF 18 GA. GALVANIZED STEEL. 4. ALL INTERIOR KNOCK-DOWN FRAMES SHALL BE 20 GA. GALVANIZED STEEL FRAME, SHOP PRIMERED AND FIELD FINISHED WITH ALKYD-ENAMEL PAINT.

HARDWARE SET GROUPS

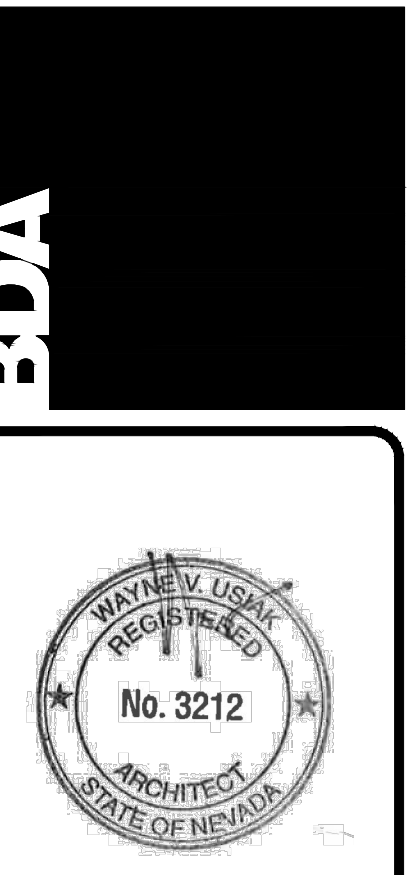
NOTES: 1. VERIFY LOCKING REQ'S W/ OWNER. 2. ALL DOORS TO HAVE WALL MOUNTED STOPS. (FLOOR MOUNTED ONLY IF APPROVED PRIOR TO INSTALLATION) 3. ALL DOORS TO RECEIVE SILENCERS. 4. \*PR = PROXIMITY READER

- 1. ENTRY: - SINGLE CYLINDER DEADBOLT / THUMBTURN - 1 1/2 PR NRP BUTTS - PUSH / PULL PLATE AND HANDLE - CLOSER - WEATHER STRIPPING - PEMCO 315 NEOPRENE DOOR SWEEP - THRESHOLD 2. ENTRANCE / EXIT: - ENTRY LOCK/SINGLE CYLINDER DEADBOLT - SIMULTANEOUS RETRACTING DEADBOLT AND LATCH SINGLE MOTION EGRESS LATCH SET - 1 1/2 PR NRP BUTTS - CLOSER - WEATHER STRIPPING - PEMCO 315 NEOPRENE DOOR SWEEP - THRESHOLD 3. PASSAGE: - PASSAGE LATCH SET / LEVER HANDLE - 1 1/2 PR BUTTS 4. PUSH/PULL ZONE WALL DOOR: - PASSAGE LATCH SET / LEVER HANDLE - 1 1/2 PR BUTTS - CLOSER - SMOKE SEAL - PEMCO 315 NEOPRENE DOOR SWEEP 5. ZONE WALL DOORS: - PASSAGE LATCH SET / LEVER HANDLE - 1 1/2 PR BUTTS - CLOSER - WEATHER STRIPPING - PEMCO 315 NEOPRENE DOOR SWEEP 6. RESTROOM: - PRIVACY LATCH SET / LEVER HANDLE - 1 1/2 PR BUTTS 7. PUSH / PULL: - PUSH / PULL PLATE AND HANDLE - 1 1/2 PR BUTTS - CLOSER 8. POCKET DOOR: - ADA HANDGRIP - TRIMCO 1069 - HEAVY DUTY TRACK AND ROLLERS - POCKET DOOR TRIM KIT 9. OFFICE: - OFFICE LOCK SET / LEVER HANDLE - 1 1/2 PR BUTTS 10. GATE HARDWARE: - STANLEY 9K237DV15DKP S3 626 3/4" LM 11. RECEPTION GATE HARDWARE: - SURFACE MOUNT GRAVITY DOOR PIVOT HINGE, BOMMER 7412

DOOR SCHEDULE

Table with columns: NO., NAME, DOOR DIMENSIONS, TYP, MATL, SGN, TYP, MATL, HD.DTL, JMB.DTL, SILL.DTL, LBL, HW, REMARKS. Lists various doors and frames for the Carson City Animal Shelter.

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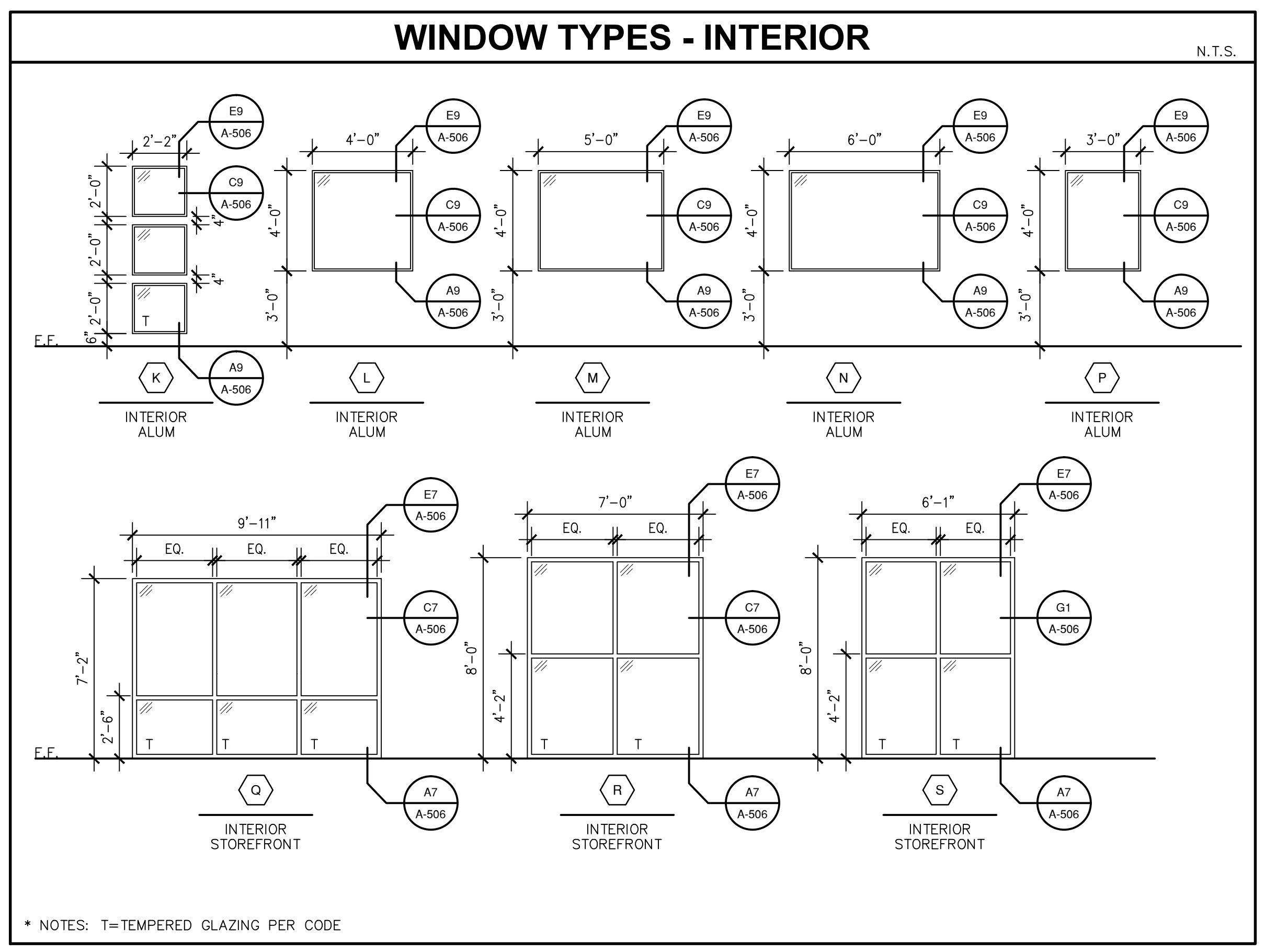
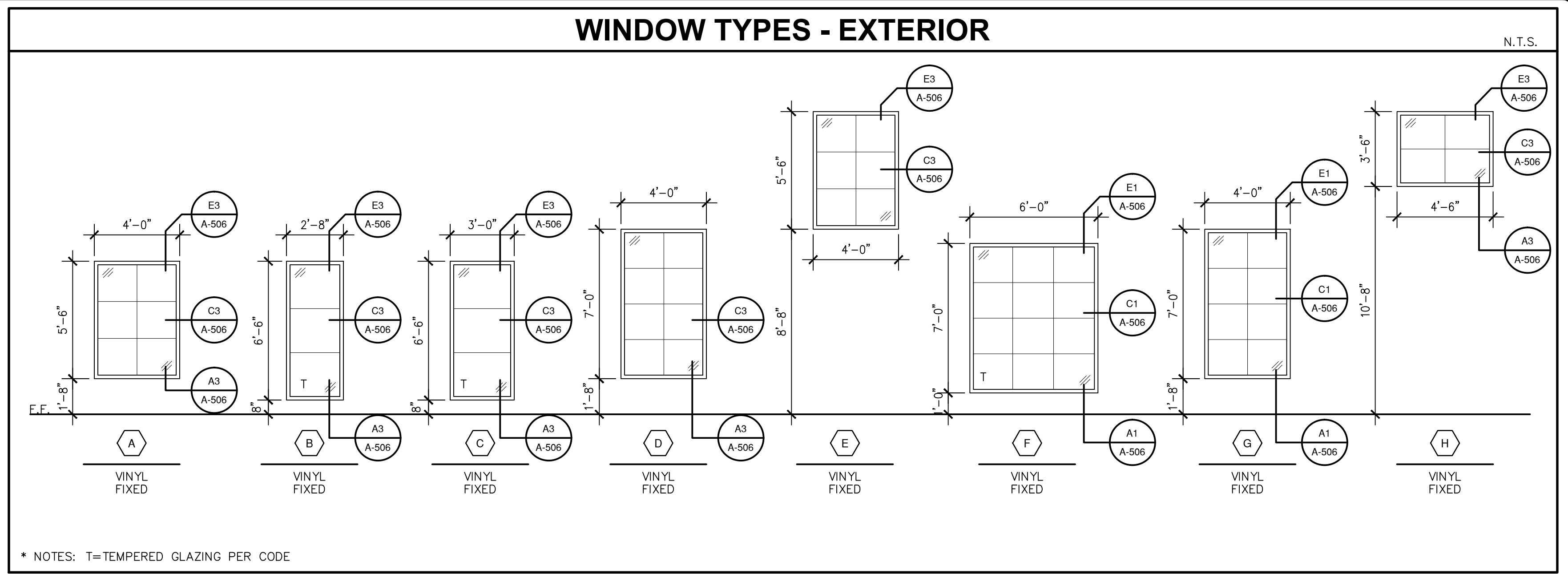


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DOOR SCHEDULE AND TYPES table with columns: REVISION, DATE, COMMENTS.

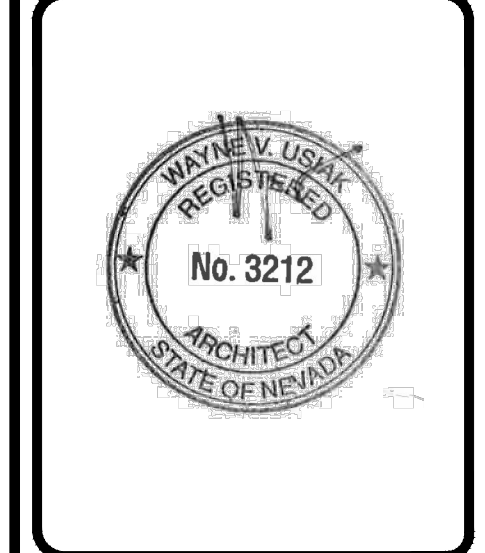
REVIEWS table with columns: INITIALS, BDA DSGN. REV., BDA TECH. REV.

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#### WINDOW TYPES

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REVISION:		
REVISION:		
REVISION:		

REVIEWS	
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-	BDA DSGN. REV.
-	BDA TECH REV.

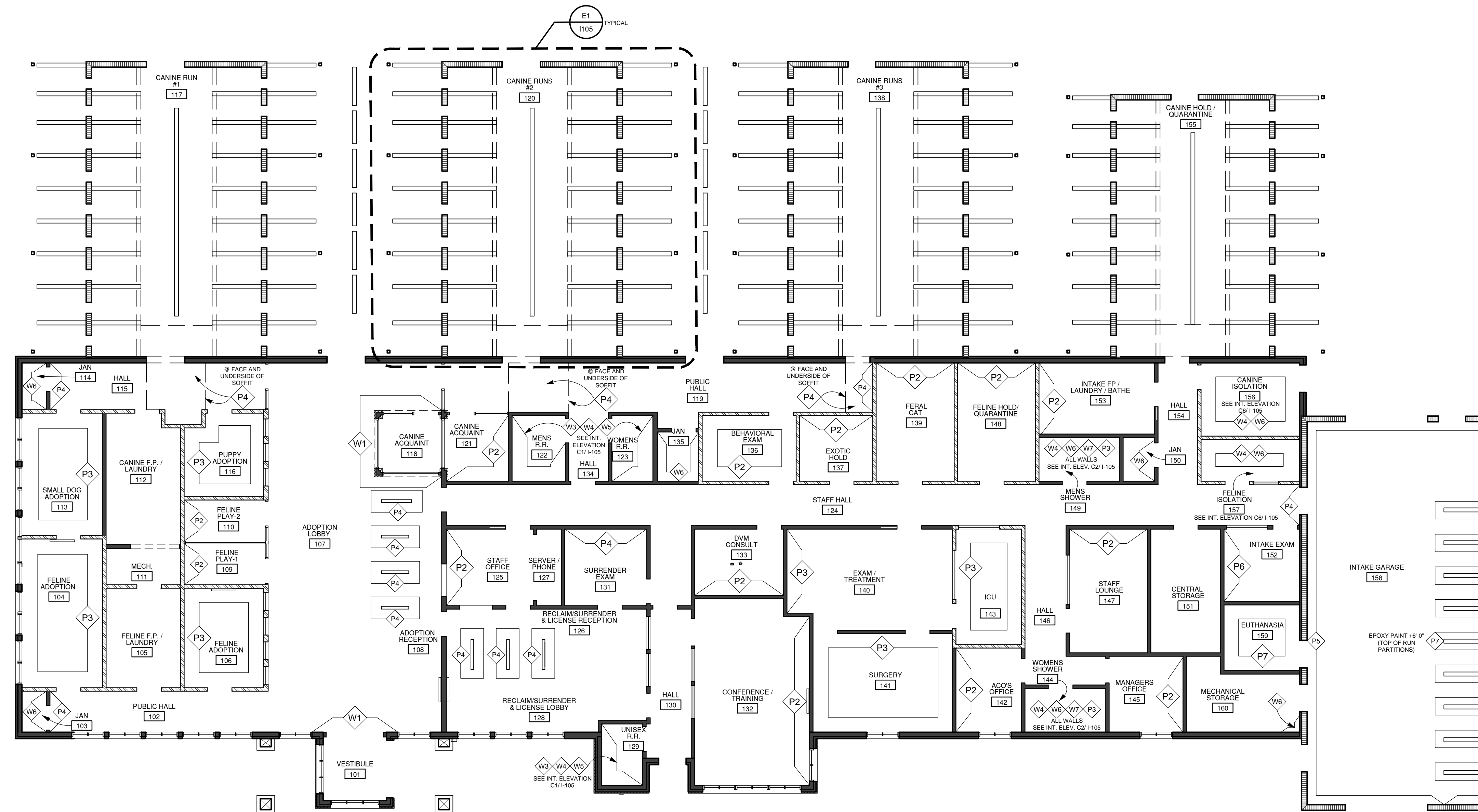
CCAS  
 PROJECT NO.: 1107  
 DRAWN: -  
 DATE: 2/27/2015

## A602

- OF -



**A2 PAINT REFERENCE PLAN**  
 1/8"=1'-0"



**GENERAL NOTES**

1. ALL WALLS TO BE PGB FINISH UNLESS OTHERWISE NOTED
2. SEE SHEET I101 FOR INTERIOR SPECIFICATIONS SCHEDULE & ROOM FINISH SCHEDULE
3. ALL WALLS TO BE PAINTED P1 (SW 6091 RELIABLE WHITE) UNLESS OTHERWISE NOTED.
4. ALL PGB CEILINGS AND SOFFITS TO BE PAINTED P1 (SW 6091 RELIABLE WHITE) UNLESS OTHERWISE NOTED.

**INTERIOR FINISHES**

- PAINT: P2 - SW2804 RENWICK ROSE BEIGE  
 P3 - SW6106 KILIM BEIGE  
 P4 - SW6004 MINK  
 P6 - EPOXY, SW2804 RENWICK ROSE BEIGE  
 P7 - EPOXY, SW6106 KILIM BEIGE
- WALLCOVERING: W1 - MANUFACTURED STONE, SIERRA SUNRISE MS86  
 W2 - GLAZED PORCELAIN, BOULEVARD BEIGE, 20"X20"  
 W3 - CERAMIC TILE, ALMOND A24, 2"X2"  
 W4 - CERAMIC TILE, MATTE SMOKEY QUARTZ 0028, 2"X4"  
 W5 - GLASS TILE, IS16 BRICK DUST, 1"X1"  
 W6 - CERAMIC TILE, MATTE ALMOND X735, 6"X6"  
 W7 - CERAMIC TILE, MATTE ALMOND X735, 6"X6" BULLNOSE

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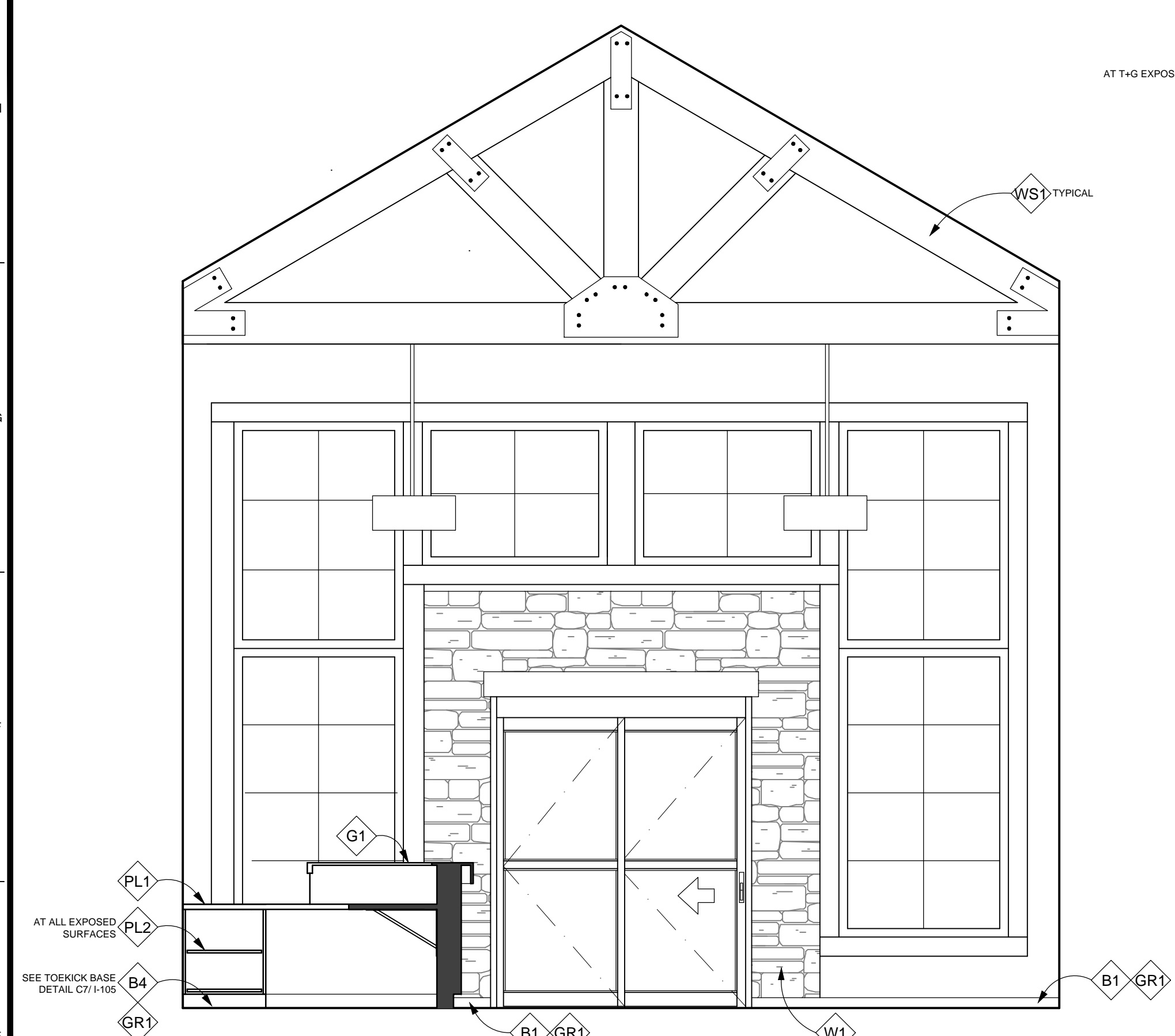
**REFERENCE FLOOR PLAN**

REV.#	DATE	COMMENTS

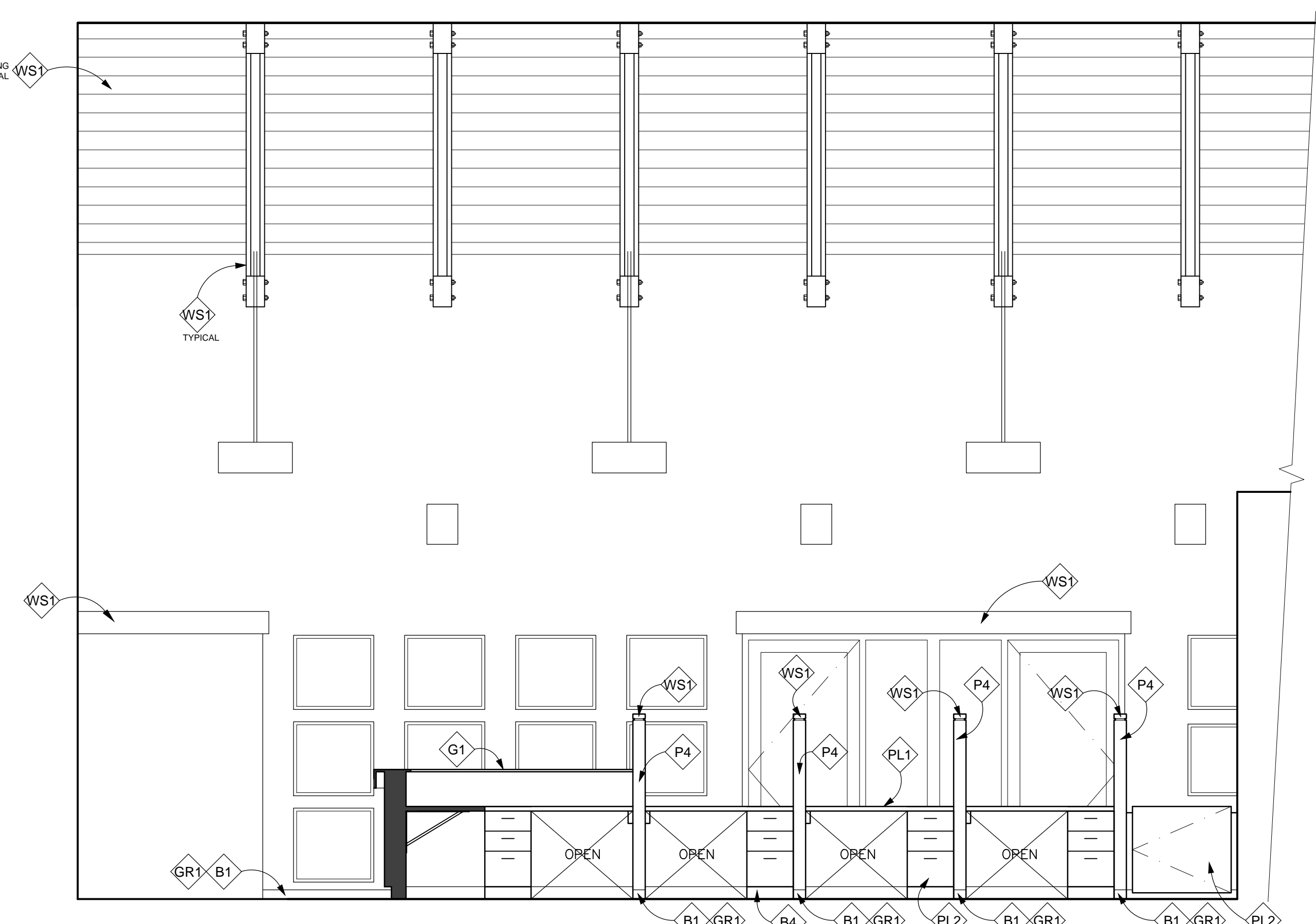
REVIEWS	
INITIALS	
BV	BDA DSGN. REV.
-	BDA TECH REV.

CCAS  
 PROJECT NO.: 1107  
 DRAWN: NF  
 DATE: 2/27/2015

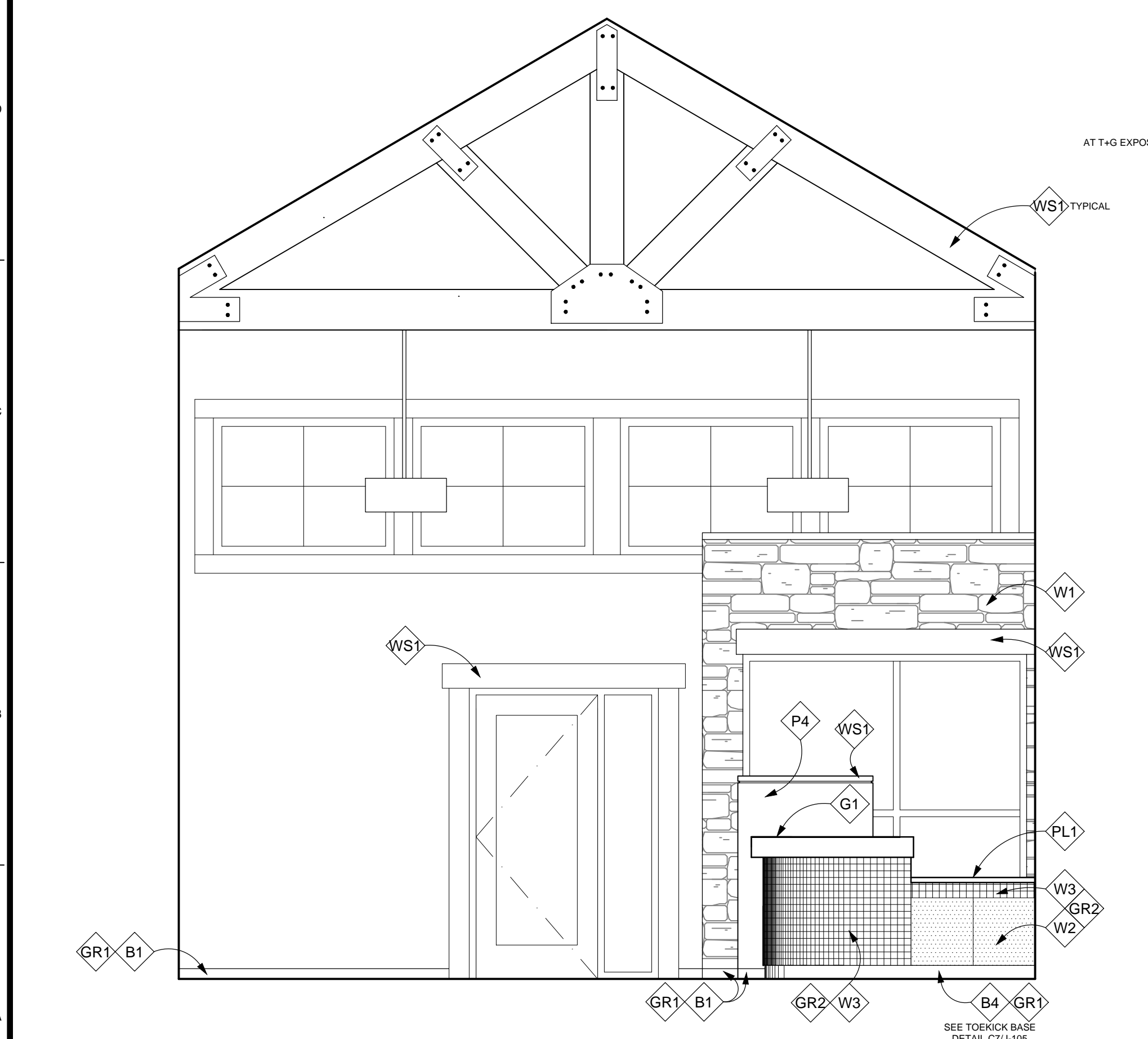




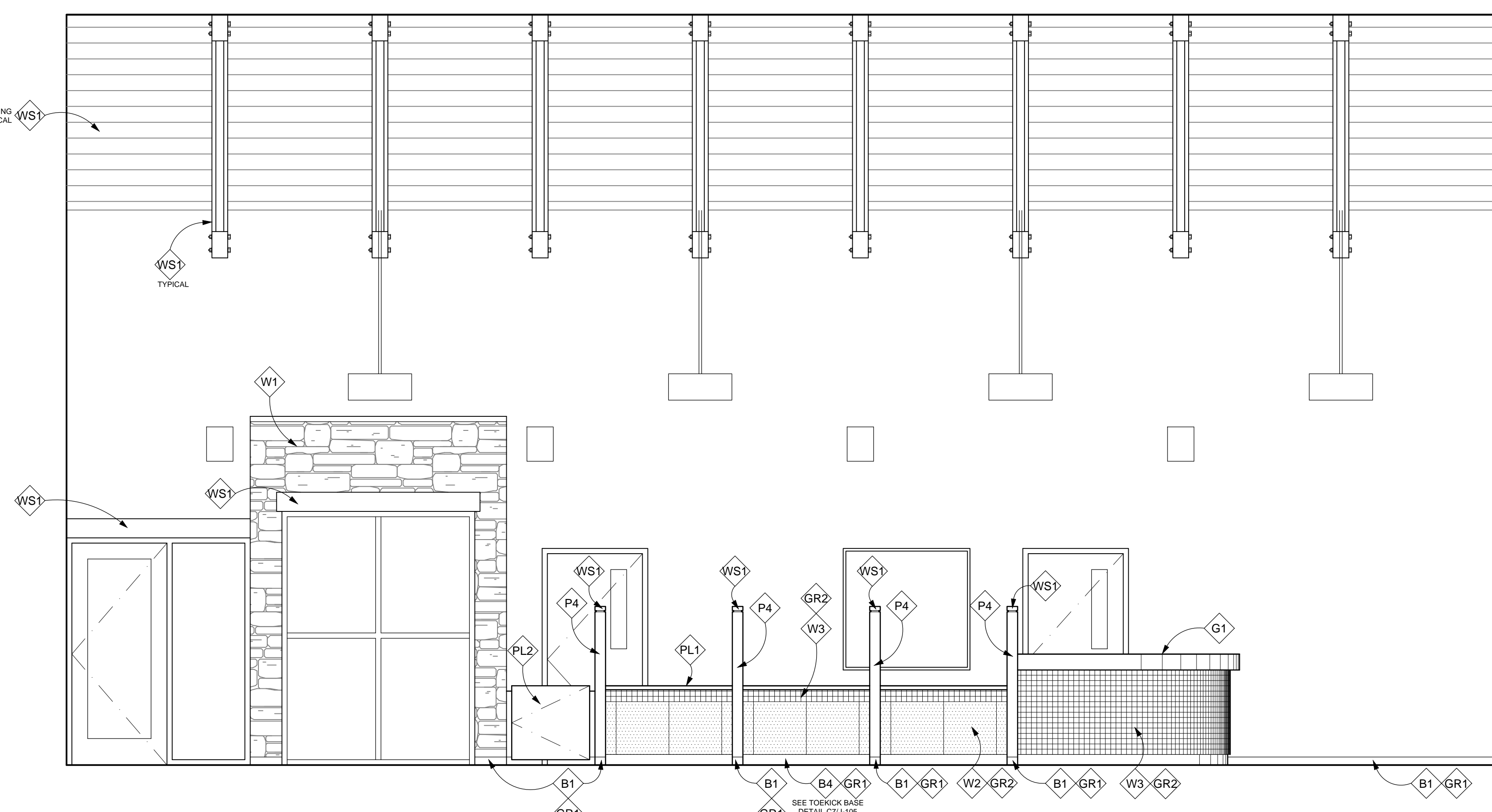
**E1 ADOPTION LOBBY/RECEPTION #107**  
 3/8"=1'-0"



**E5 ADOPTION LOBBY/RECEPTION #107**  
 3/8"=1'-0"



**A1 ADOPTION LOBBY #107**  
 3/8"=1'-0"



**A5 ADOPTION LOBBY #107**  
 3/8"=1'-0"

**GENERAL NOTES**

1. ALL WALLS TO BE PGB FINISH UNLESS OTHERWISE NOTED
2. SEE SHEET I101 FOR INTERIOR SPECIFICATIONS SCHEDULE & ROOM FINISH SCHEDULE
3. ALL NEW WALLS TO BE PAINTED P1 (RELIABLE WHITE SW6091) UNLESS OTHERWISE NOTED.
4. ALL NEW PGB CEILINGS AND SOFFITS TO BE PAINTED P1 (RELIABLE WHITE SW6091) UNLESS OTHERWISE NOTED.
5. ALL EXPOSED WOOD TRIM TO BE STAINED WS1 (BRIGHT CHERRY SW3109-P) UNLESS OTHERWISE NOTED.
6. ALL METAL FASTENERS AT EXPOSED WOOD TRUSSES TO BE PAINTED BLACK

**INTERIOR FINISHES**

- PLASTIC LAMINATE: PL1 - WILSONART, FLAME SOAPSTONE 4884-38  
 PL2 - FORMICA, FLAX GAUZE 7708-58
- GENERAL: G1 - SOLID SURFACE, FB154 BRONZESTAR
- BASE: B1 - BOULEVARD BEIGE, 3"X13" BULLNOSE  
 B4 - BOULEVARD BEIGE, 4"X20"
- WALLCOVERING: W1 - BUCKS COUNTY COUNTRY LEDGESTONE  
 W2 - BOULEVARD BEIGE 20"X20"  
 W3 - ALMOND A24, 2"X2"
- WOOD STAIN: WS1 - SW3109-P BRIGHT CHERRY
- PAINT: P4 - MINK SW6004
- GROUT: GR1 - FLEXCOLOR CQ GROUT, 11 SAHARA BEIGE  
 GR2 - FLEXCOLOR CQ GROUT, 49 LIGHT ALMOND

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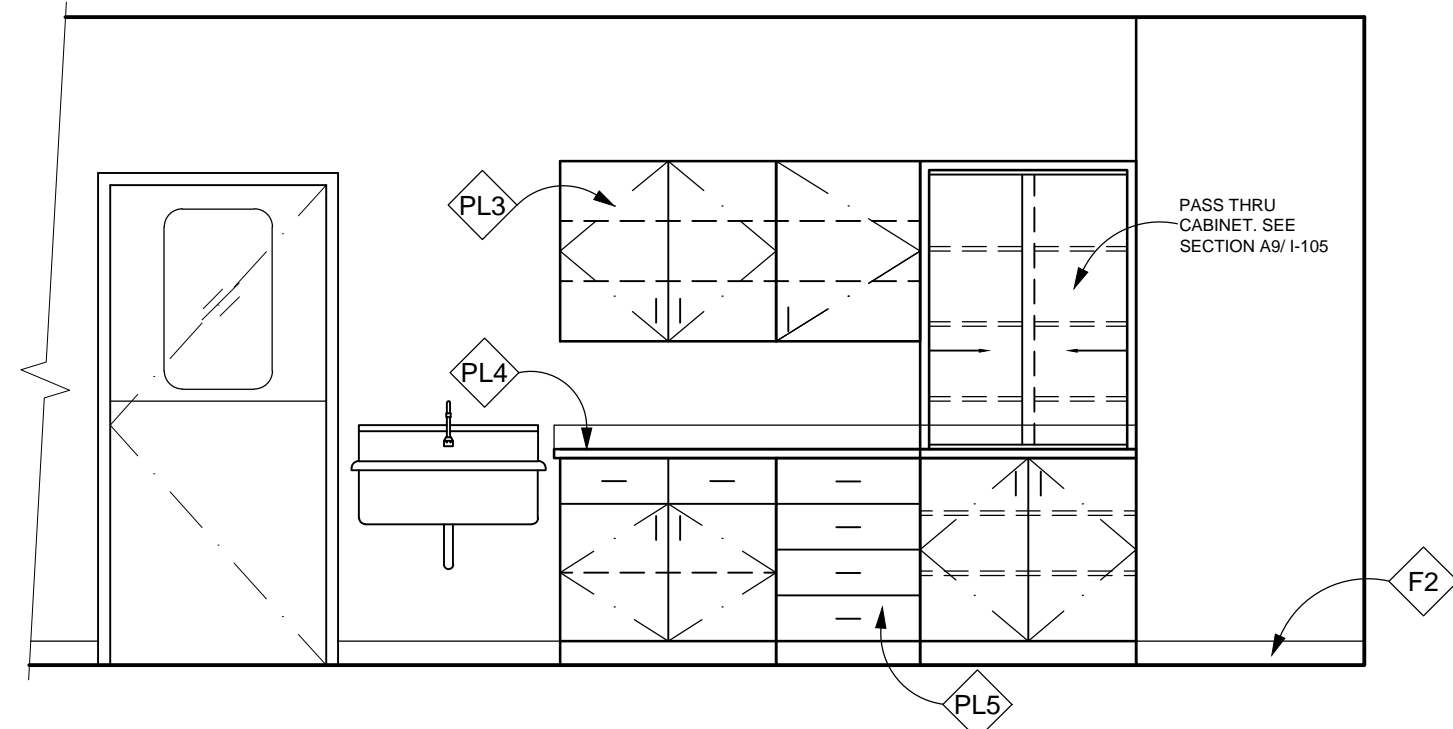
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**INTERIOR ELEVATIONS**

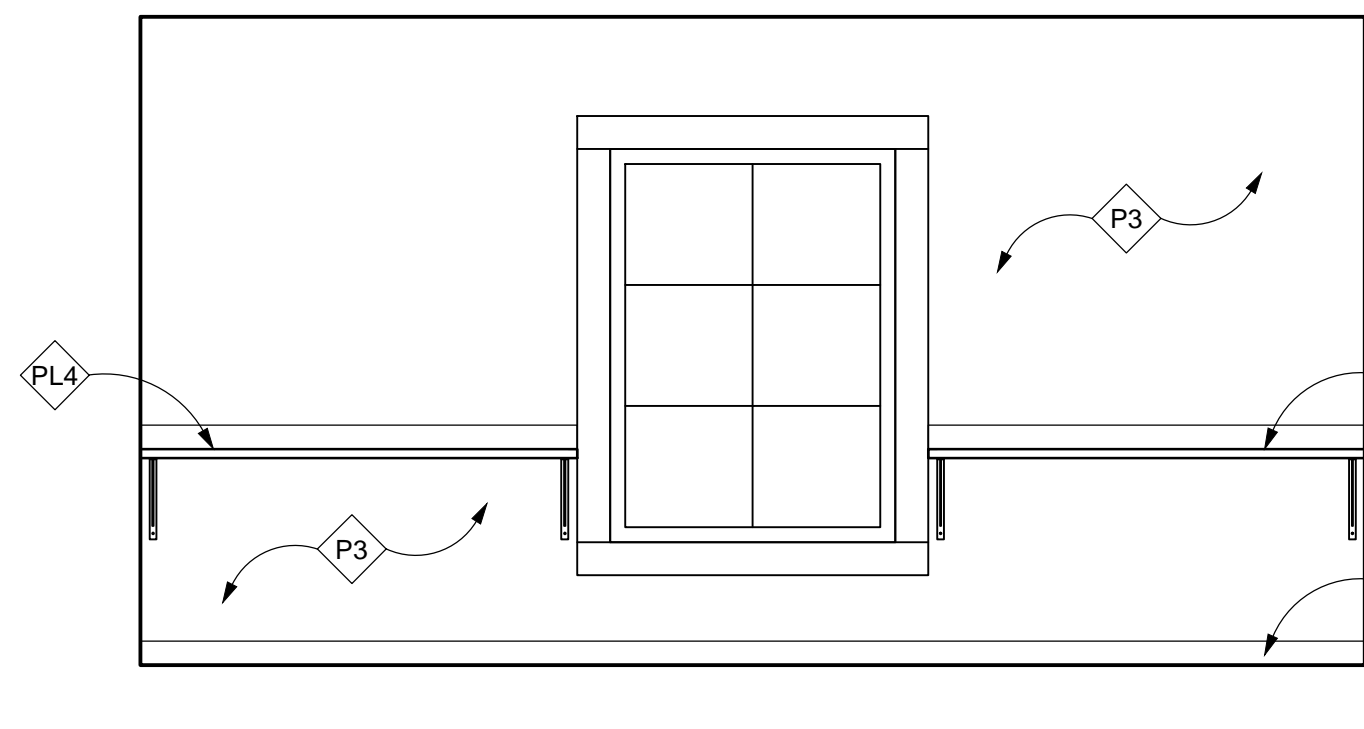
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REVISION:	-	-	-
REVISION:	-	-	-
REVISION:	-	-	-

REVIEWS	
INITIALS	BDA DSGN. REV.
-	BDA TECH REV.

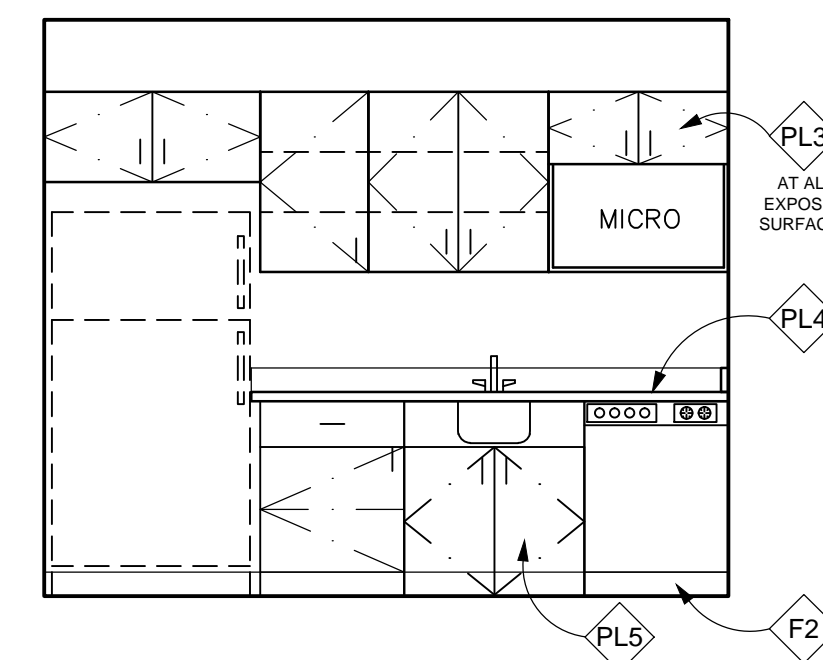
CCAS  
 PROJECT NO.: 1107  
 DRAWN: NF  
 DATE: 2/27/2015



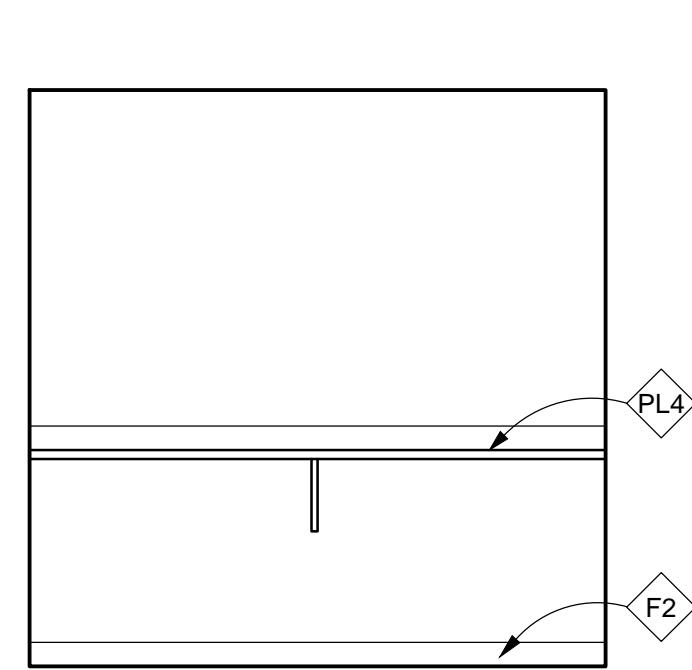
**G1 EXAM / TREATMENT #140**  
 3/8"=1'-0"



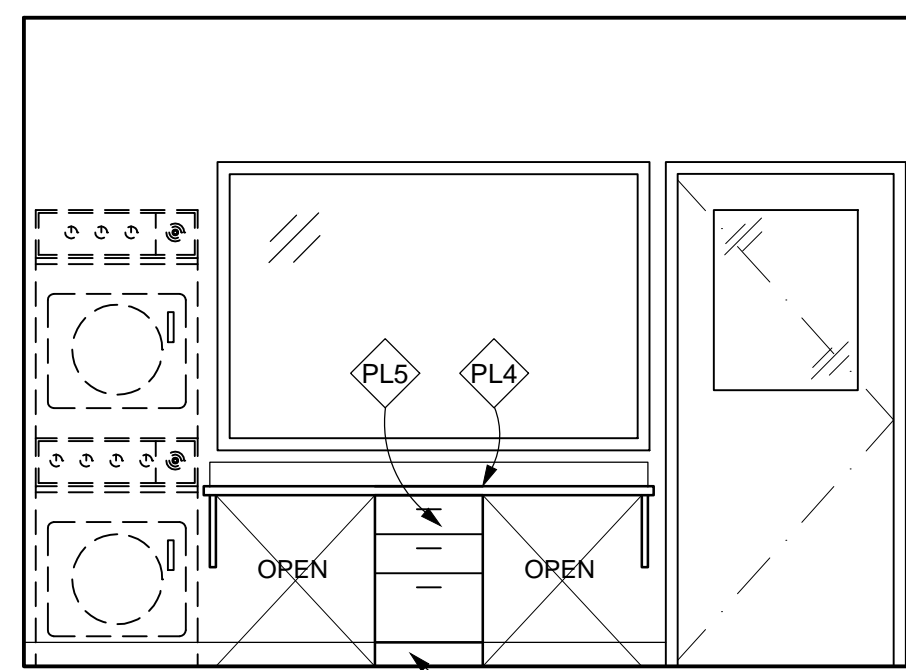
**G4 SURGERY #141**  
 3/8"=1'-0"



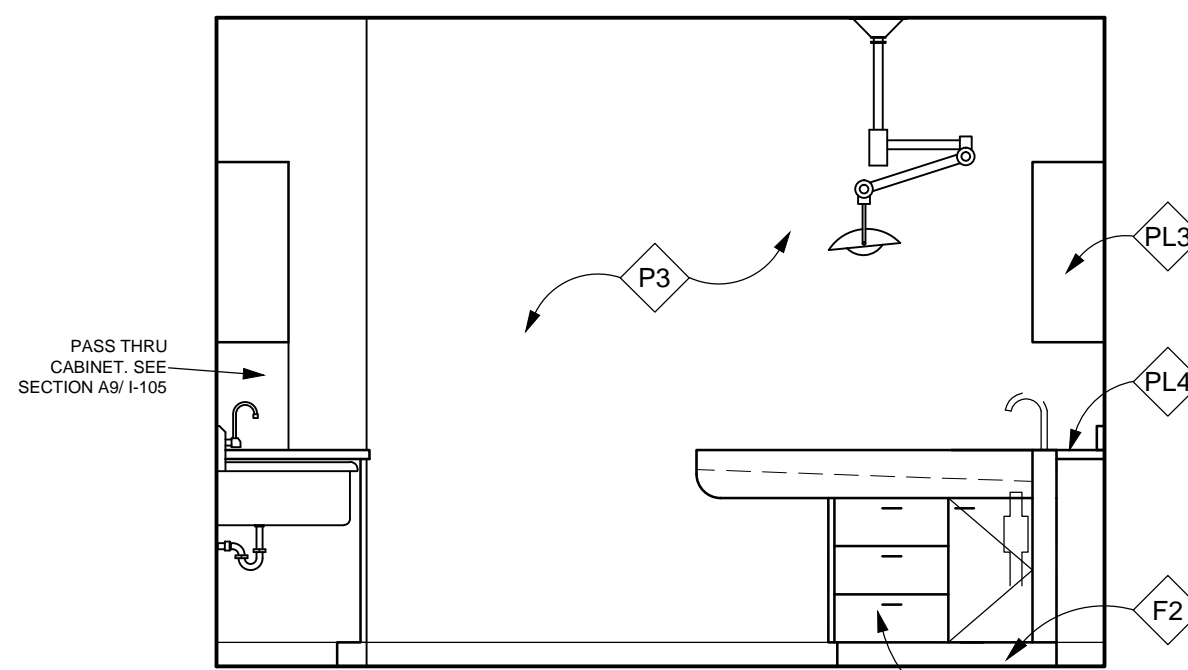
**G7 STAFF LOUNGE #147**  
 3/8"=1'-0"



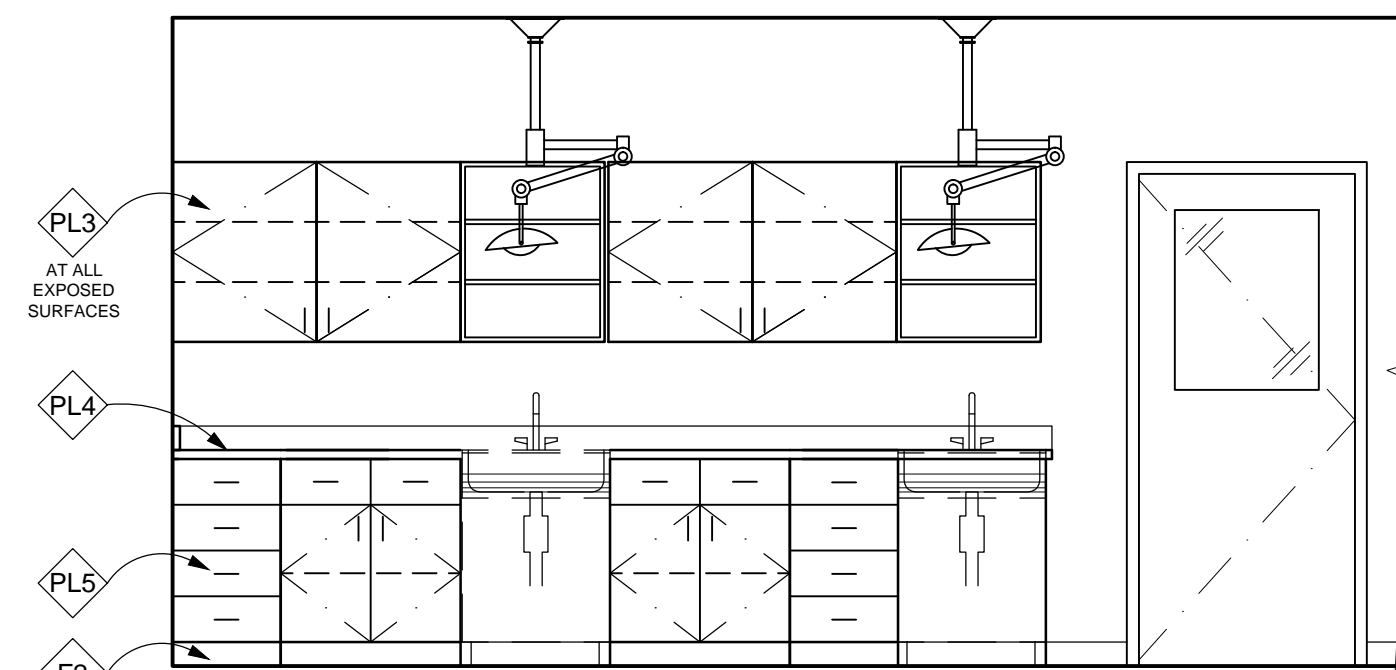
**E1 EXOTIC HOLD #137**  
 3/8"=1'-0"



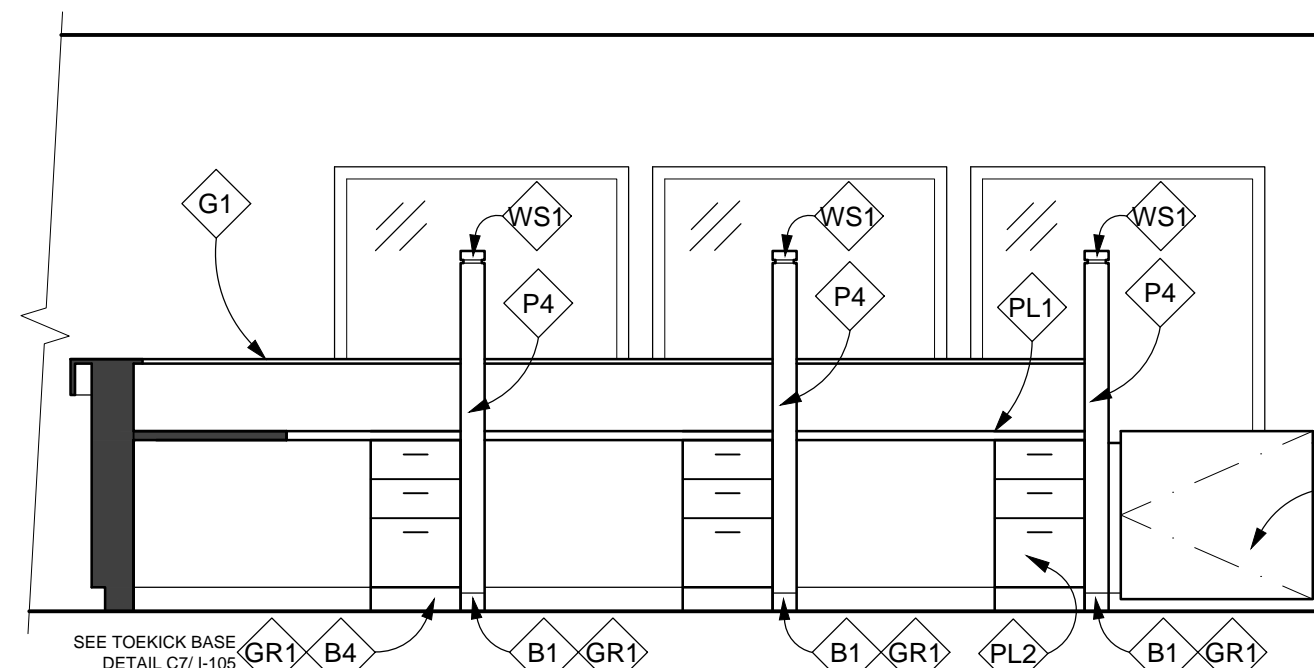
**E3 EXAM / TREATMENT #140**  
 3/8"=1'-0"



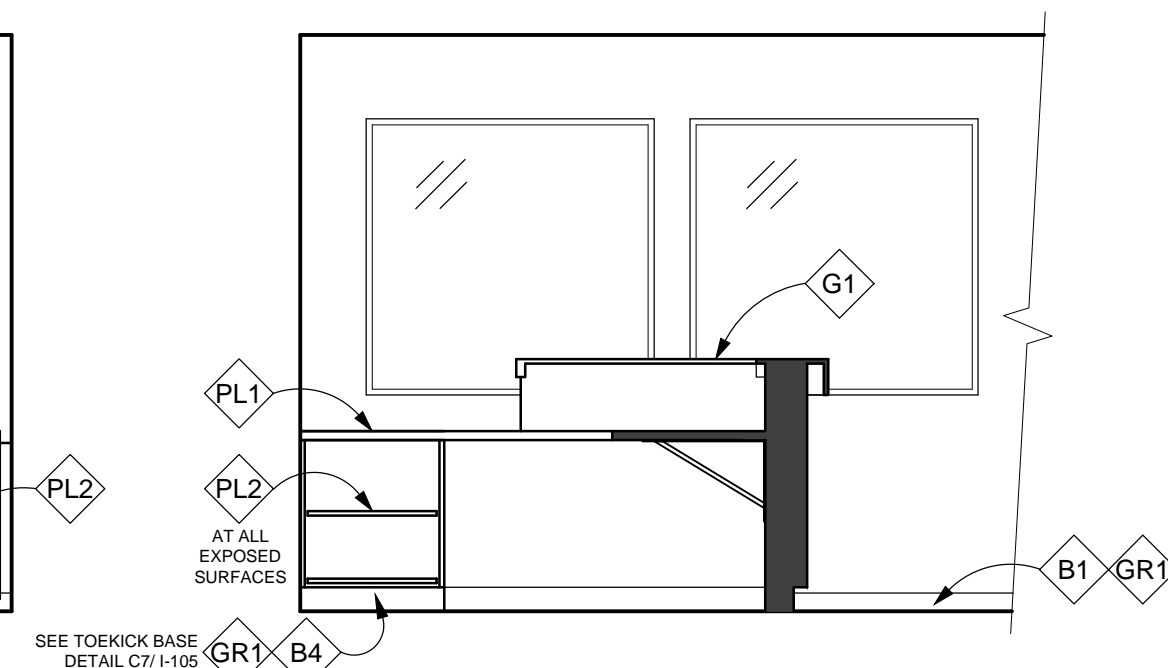
**E5 EXAM / TREATMENT #140**  
 3/8"=1'-0"



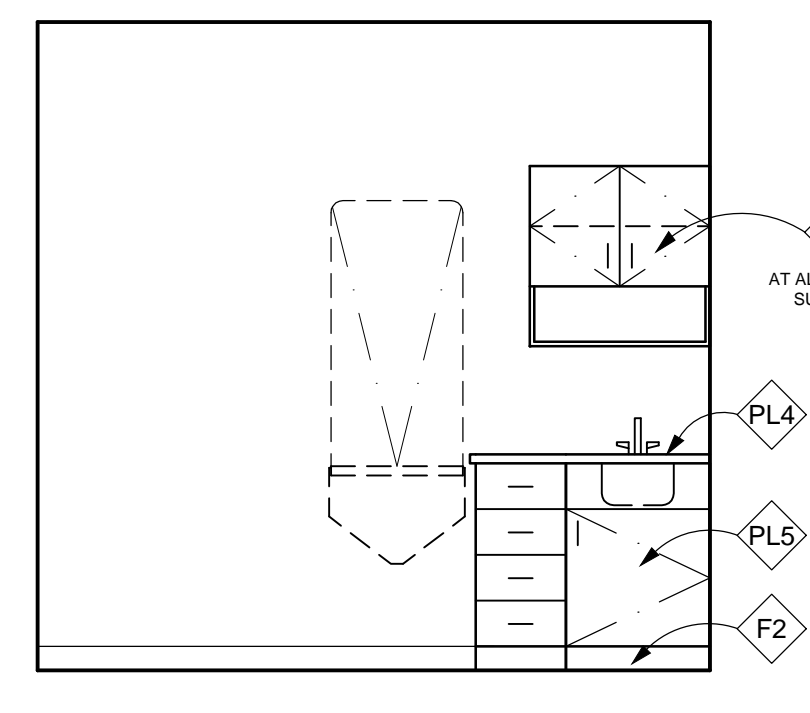
**E7 EXAM / TREATMENT #140**  
 3/8"=1'-0"



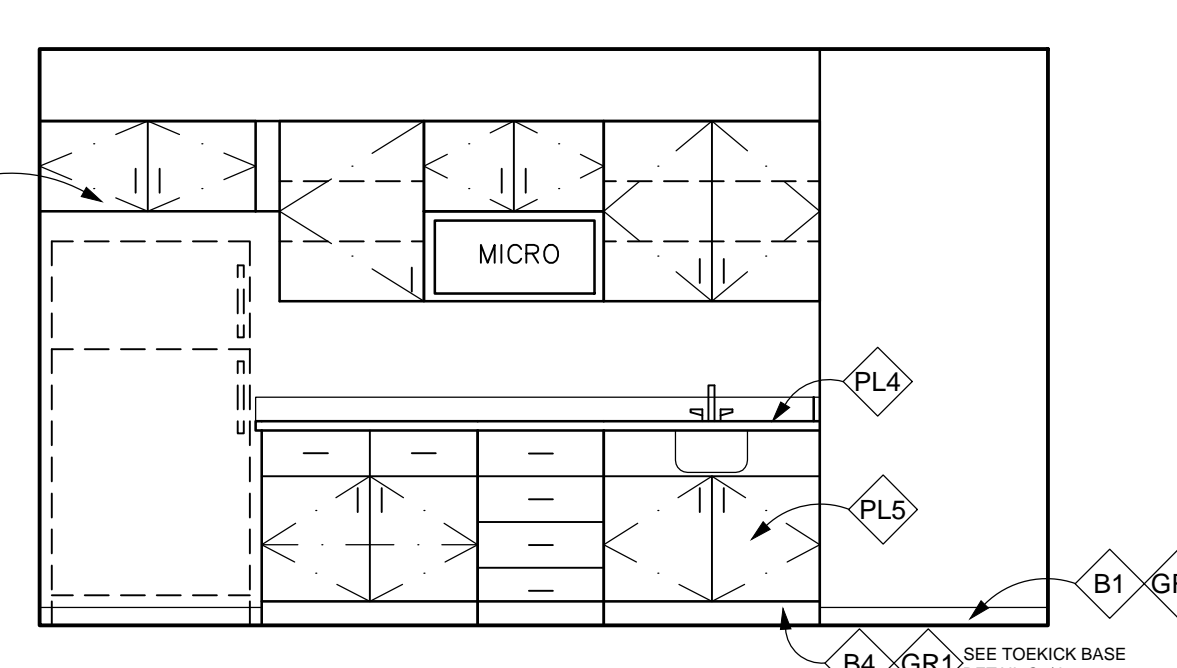
**C1 R, S & L RECEPTION #126**  
 3/8"=1'-0"



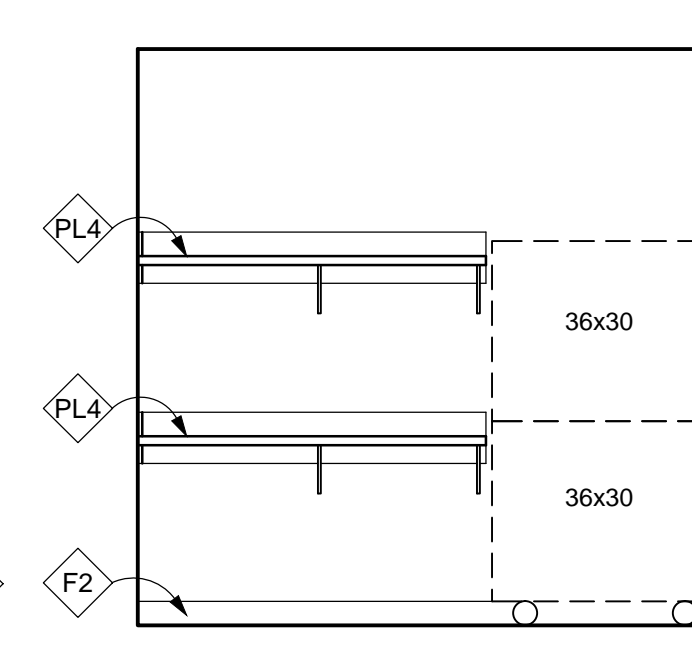
**C4 R, S & L RECEPTION #126**  
 3/8"=1'-0"



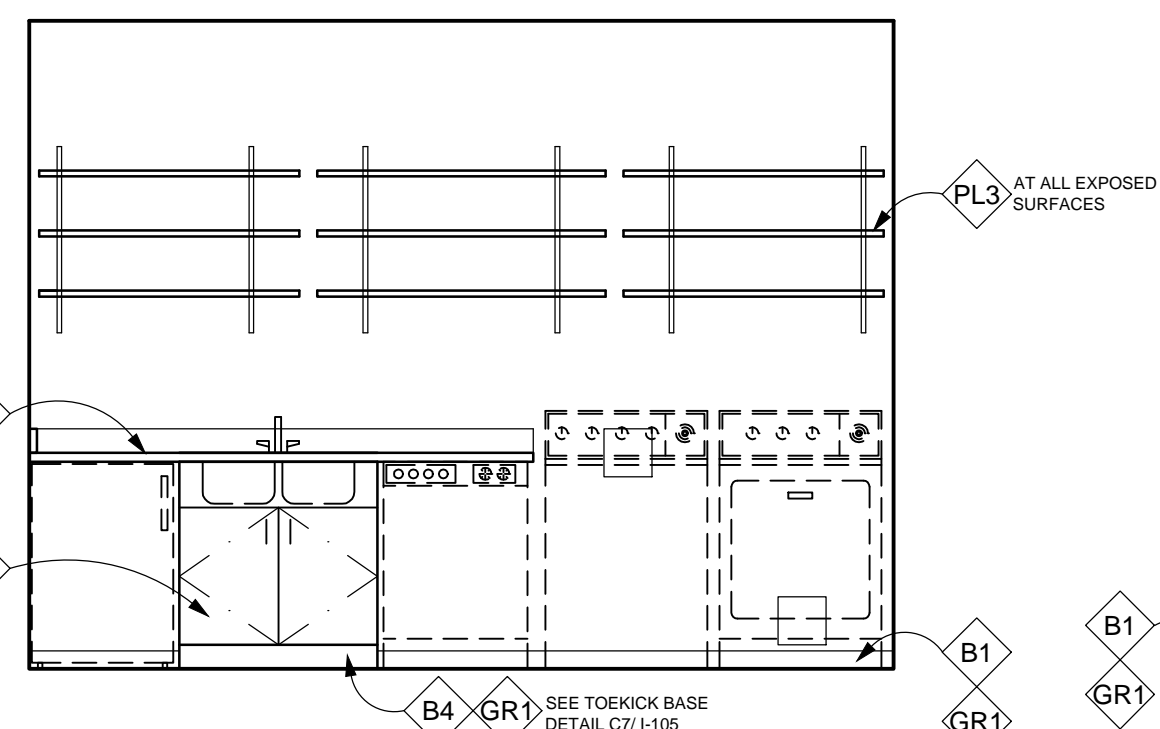
**C6 SURRENDER EXAM #131**  
 3/8"=1'-0"



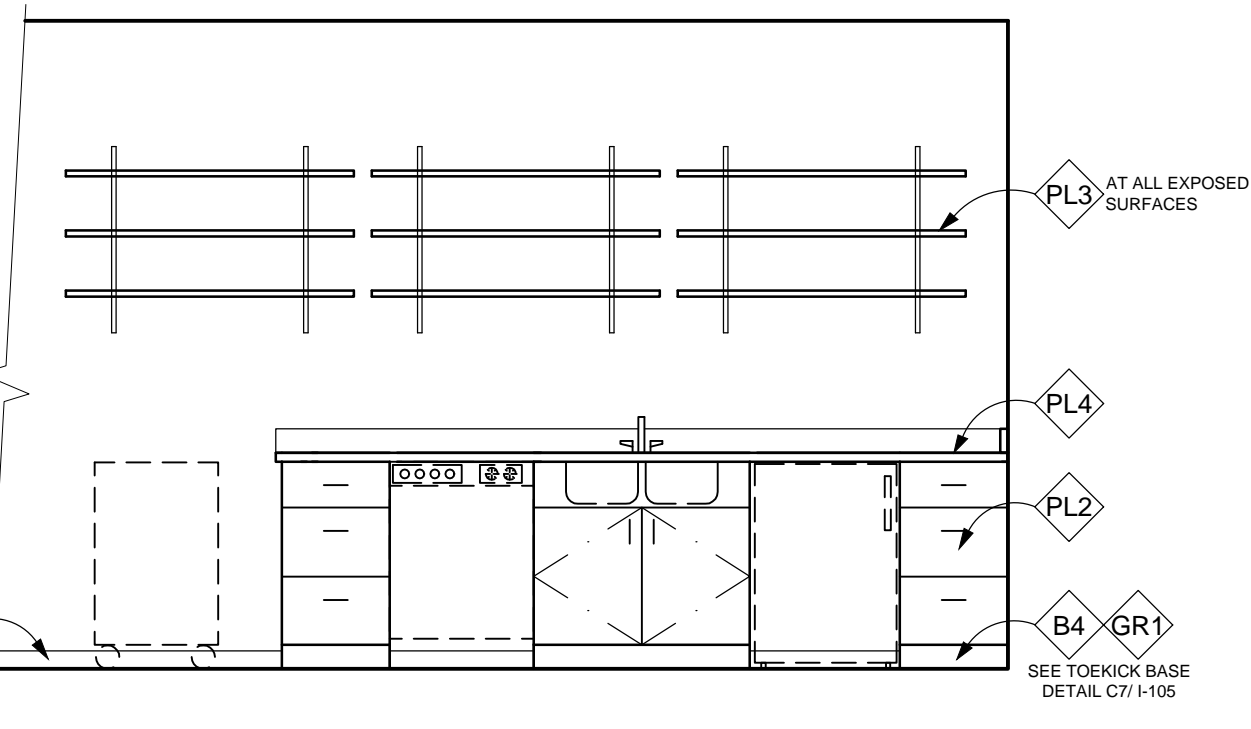
**C8 CONFERENCE / TRAINING #132**  
 3/8"=1'-0"



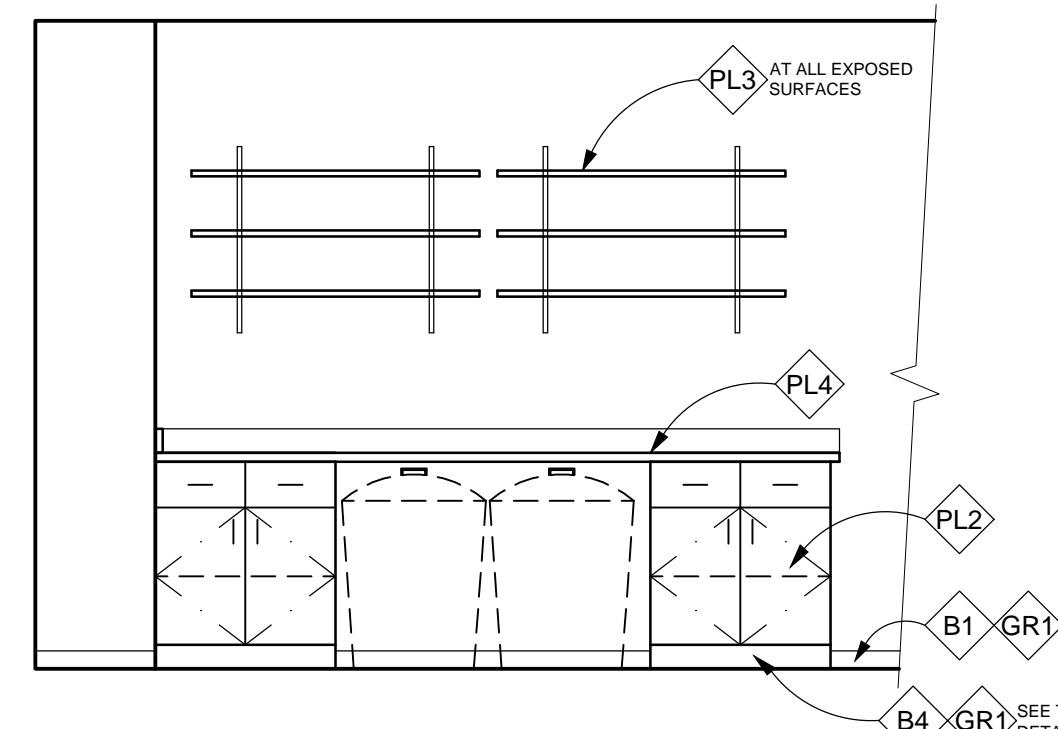
**C10 EXOTIC HOLD #137**  
 3/8"=1'-0"



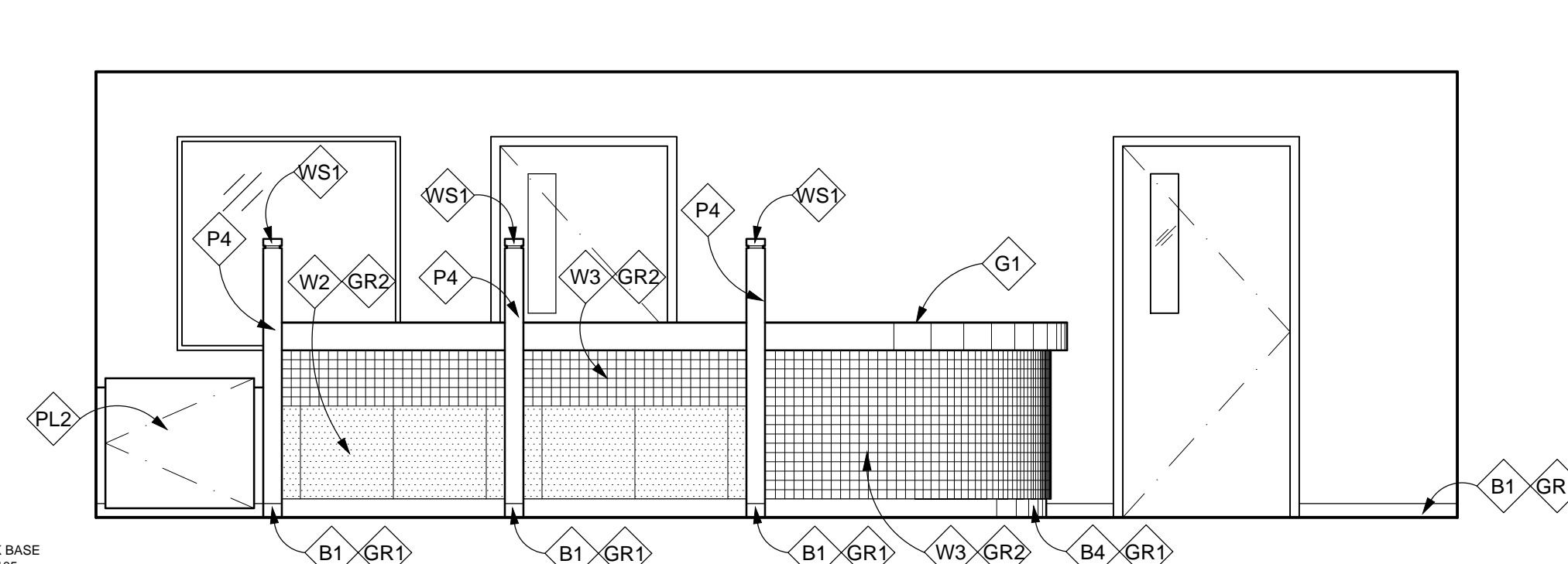
**A1 FELINE F.P. / LAUNDRY #105**  
 3/8"=1'-0"



**A3 CANINE F.P. / LAUNDRY #112**  
 3/8"=1'-0"



**A6 CANINE F.P. / LAUNDRY #112**  
 3/8"=1'-0"



**A8 R, S, & L RECEPTION #126**  
 3/8"=1'-0"

**GENERAL NOTES**

1. ALL WALLS TO BE PGB FINISH UNLESS OTHERWISE NOTED
2. SEE SHEET 1101 FOR INTERIOR SPECIFICATIONS SCHEDULE & ROOM FINISH SCHEDULE
3. ALL NEW WALLS TO BE PAINTED P1 (RELIABLE WHITE SW6091) UNLESS OTHERWISE NOTED.
4. ALL NEW PGB CEILINGS AND SOFFITS TO BE PAINTED P1 (RELIABLE WHITE SW6091) UNLESS OTHERWISE NOTED.
5. ALL EXPOSED WOOD TRIM TO BE STAINED WS1 (BRIGHT CHERRY SW3109-P) UNLESS OTHERWISE NOTED.

**INTERIOR FINISHES**

PAINT: P3 - KILIM BEIGE SW6106  
 P4 - MINK SW6004

PLASTIC LAMINATE: PL1 - WILSONART, FLAME SOAPSTONE 4884-38  
 PL2 - FORMICA, FLAX GAUZE 7708-58  
 PL3 - FORMICA, SAIL WHITE 463-58  
 PL4 - AUTUMN INDIAN SLATE 3687-77  
 PL5 - COGNAC MAPLE 7738-58

GENERAL: G1 - SOLID SURFACE, FB154 BRONZESTAR

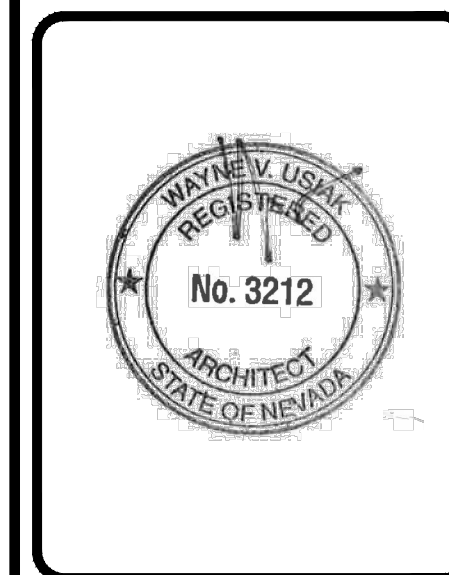
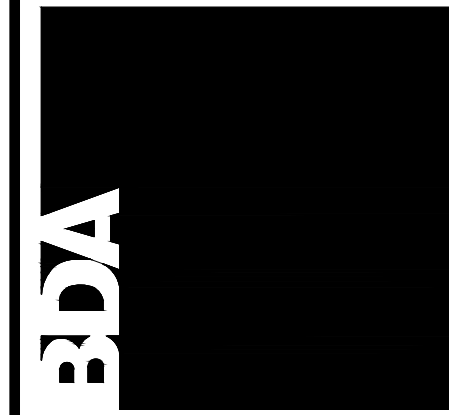
BASE: B1 - PORCELAIN TILE, BOULEVARD BEIGE, 3"x13" BULLNOSE  
 B4 - PORCELAIN TILE, BOULEVARD BEIGE, W2 CUT TO 4"x20"  
 F2 - FLASHCOVE, EPOXY FLOORING, SAHARA

WALLCOVERING: W2 - PORCELAIN TILE, BOULEVARD BEIGE, 20"x20"  
 W3 - CERAMIC TILE, ALMOND A24, 2"x2"

GROUT: GR1 - FLEXCOLOR CQ GROUT, 11 SAHARA BEIGE  
 GR2 - FLEXCOLOR CQ GROUT, 49 LIGHT ALMOND

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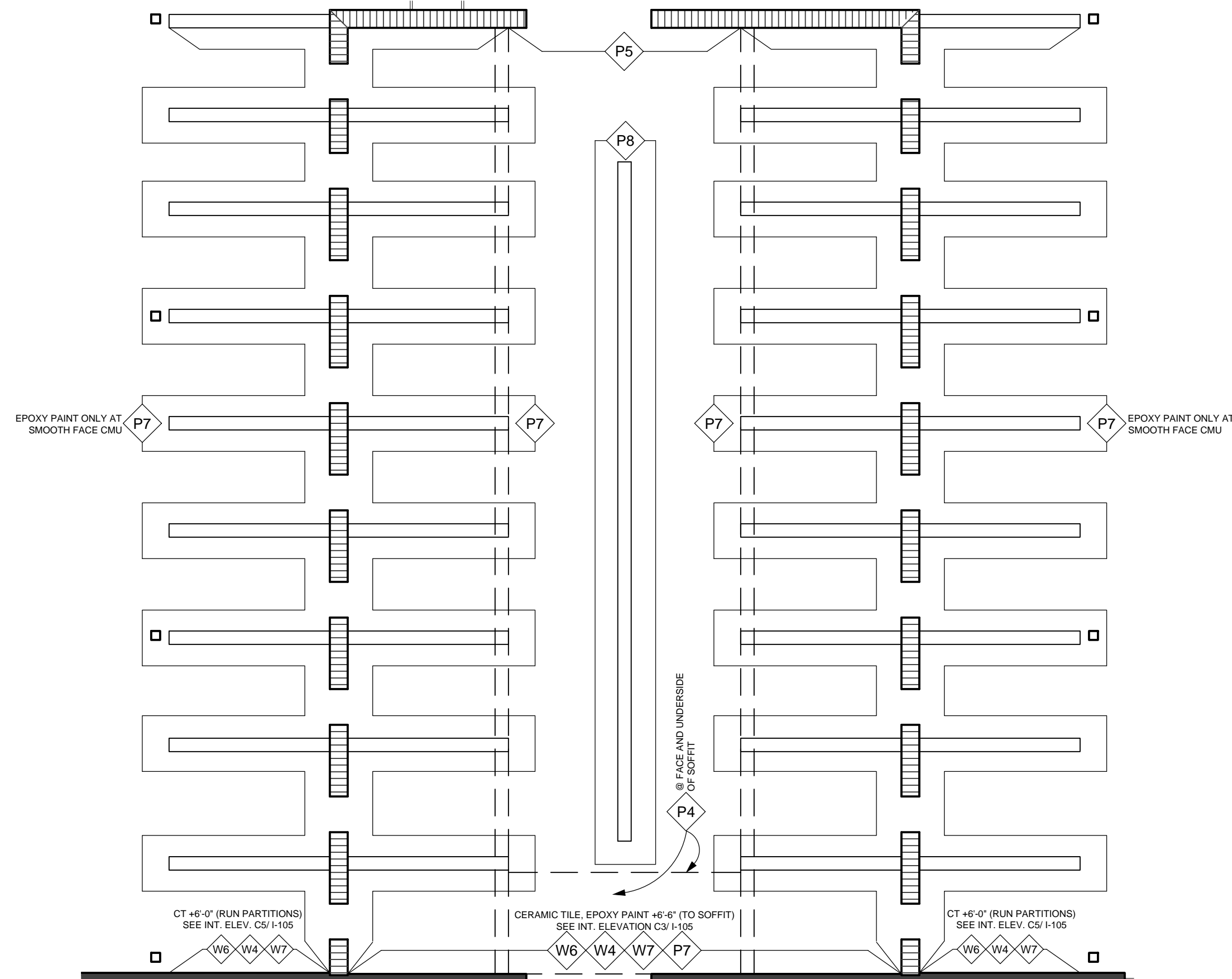
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**INTERIOR ELEVATIONS**

REV.#	DATE	COMMENTS

REVIEWS	
INITIALS	BDA DSGN. REV.
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CCAS  
 PROJECT NO.: 1107  
 DRAWN: NF  
 DATE: 2/27/2015



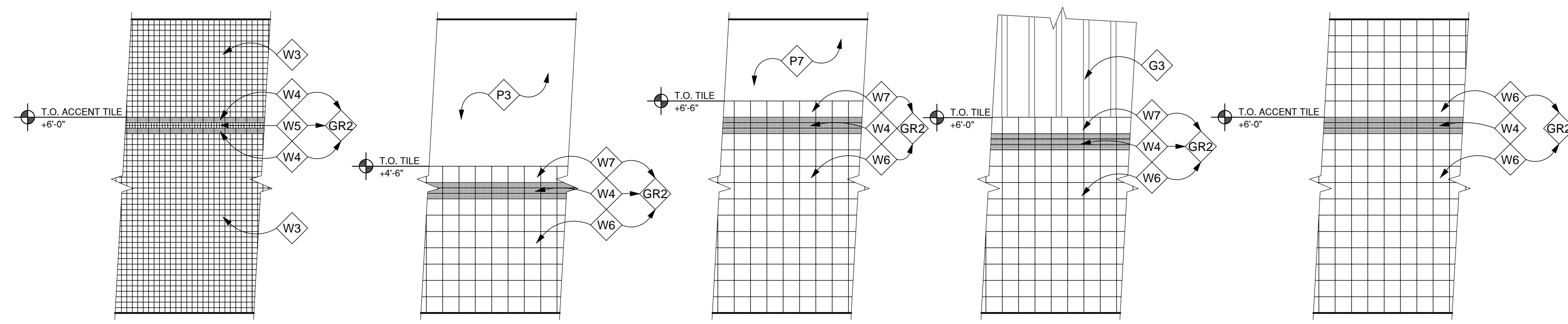
**GENERAL NOTES**

1. ALL WALLS TO BE PGB FINISH UNLESS OTHERWISE NOTED
2. SEE SHEET H101 FOR INTERIOR SPECIFICATIONS SCHEDULE & ROOM FINISH SCHEDULE
3. ALL NEW WALLS TO BE PAINTED P1 (RELIABLE WHITE SW6091) UNLESS OTHERWISE NOTED.
4. ALL NEW PGB CEILINGS AND SOFFITS TO BE PAINTED P1 (RELIABLE WHITE SW6091) UNLESS OTHERWISE NOTED.
5. ALL EXPOSED WOOD TRIM TO BE STAINED WS1 (BRIGHT CHERRY SW3109-P) UNLESS OTHERWISE NOTED

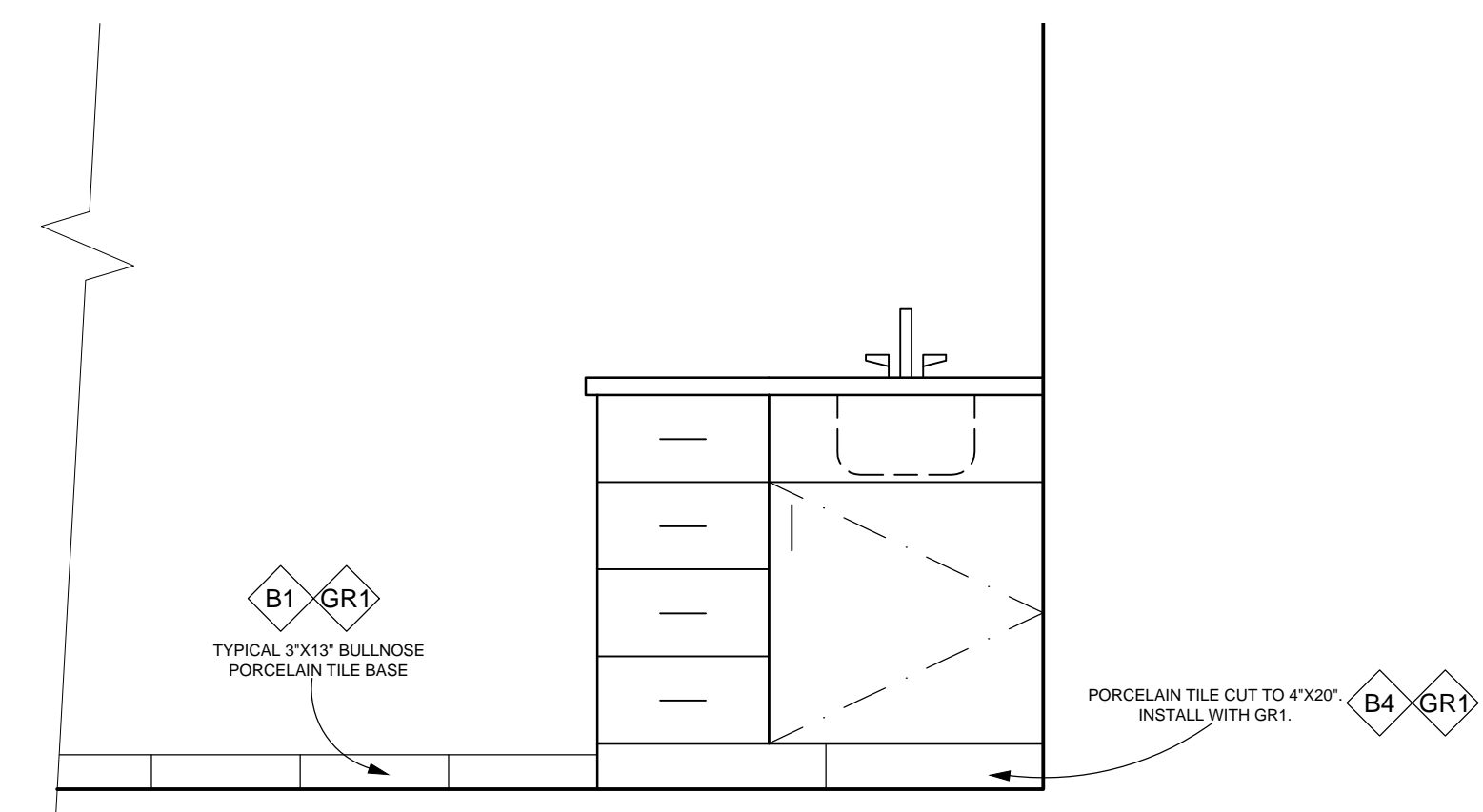
**INTERIOR FINISHES**

- PAINT: P3 - KILIM BEIGE SW6106  
 P4 - MINK SW6004  
 P5 - EPOXY, RELIABLE WHITE SW6091  
 P7 - EPOXY, KILIM BEIGE SW6106  
 P8 - EPOXY, MINK SW6004
- PLASTIC LAMINATE: PL3 - FORMICA, SAIL WHITE 463-58  
 PL4 - FORMICA, AUTUMN INDIAN SLATE 3687-77  
 PL5 - FORMICA, COGNAC MAPLE 7738-58
- BASE: F2 - FLASHCOVE, EPOXY FLOORING, SAHARA
- WALLCOVERING: W3 - CERAMIC TILE, ALMOND A24  
 W4 - CERAMIC TILE, MATTE SMOKEY QUARTZ 0028  
 W5 - GLASS TILE, IS16 BRICK DUST  
 W6 - CERAMIC TILE, MATTE ALMOND X735
- GENERAL: G3 - FIBER CEMENT SIDING, MONTEREY TAUPE
- GROUT: GR1 - FLEXCOLOR CQ GROUT, 11 SAHARA BEIGE  
 GR2 - FLEXCOLOR CQ GROUT, 49 LIGHT ALMOND

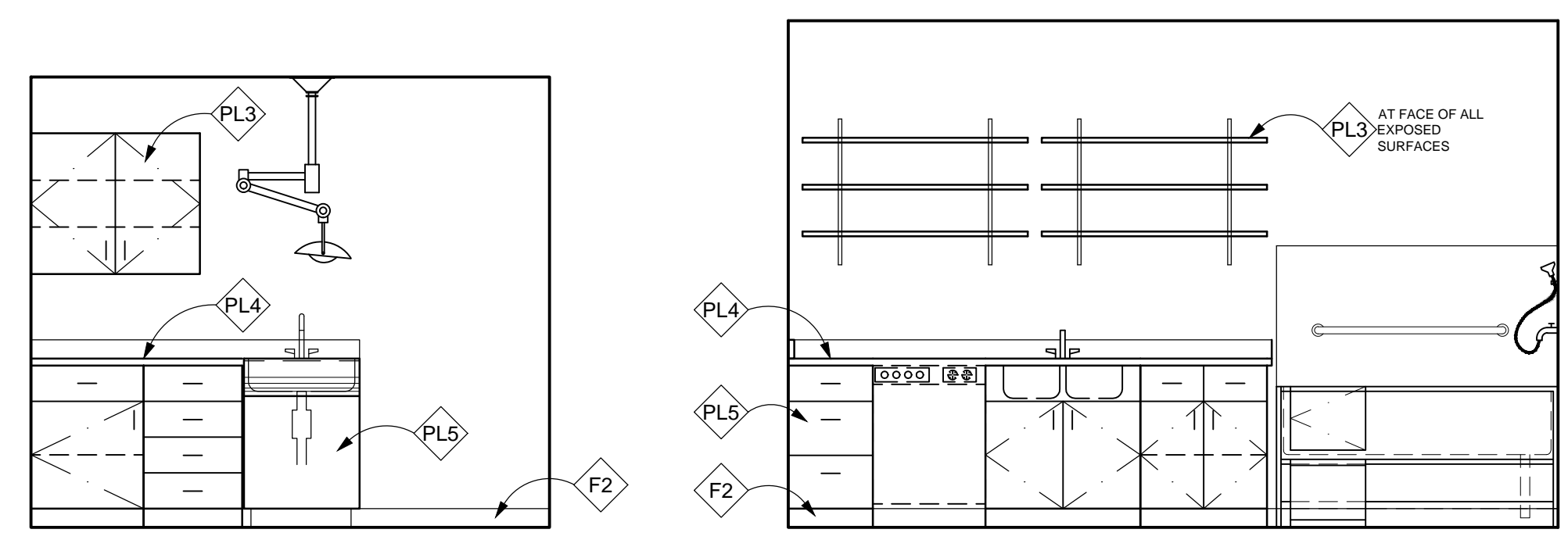
**E1 PAINT REFERENCE PLAN DETAIL**  
 1/4"=1'-0" (RUNS #117, #120, #138. HOLD/QUARANTINE #155 SIM.)



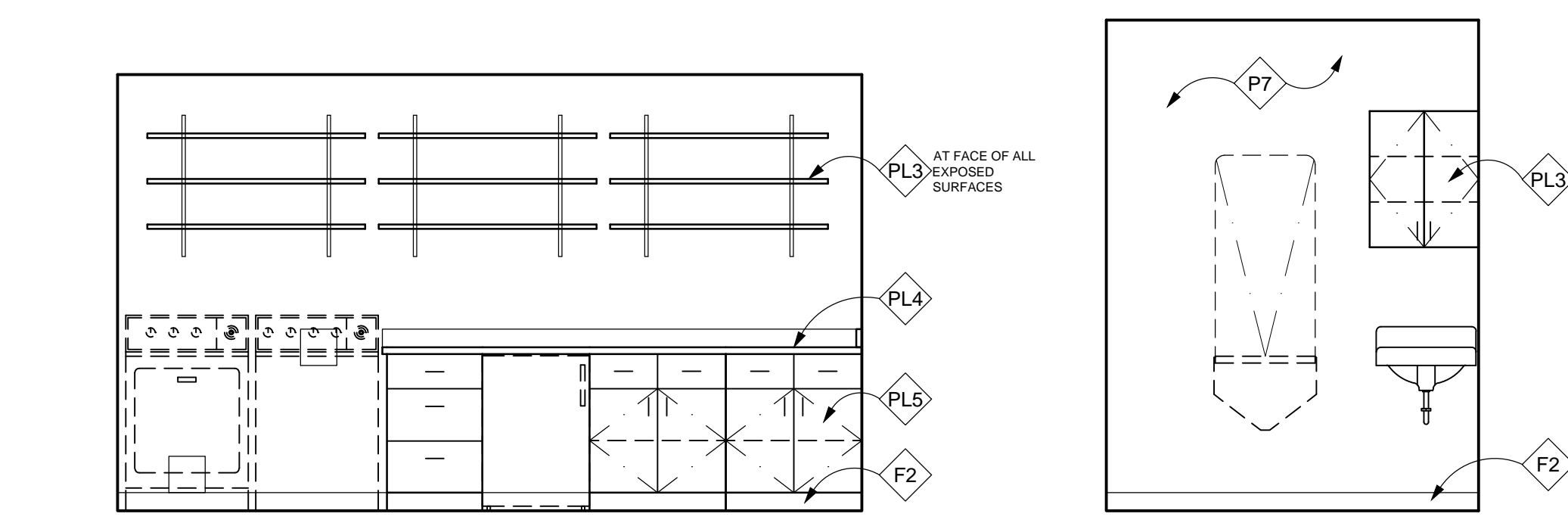
**C1 PUBLIC R.R.** 3/8"=1'-0" (#122, #123, #129)  
**C2 PRIVATE R.R.** 3/8"=1'-0" (#144, #149)  
**C3 TILE PATTERN** 3/8"=1'-0" (#117, #120, #138, #155)  
**C5 TILE PATTERN** 3/8"=1'-0" EXT. RUNS, SOUTH WALL  
**C6 TILE PATTERN** 3/8"=1'-0" (#144, #149)



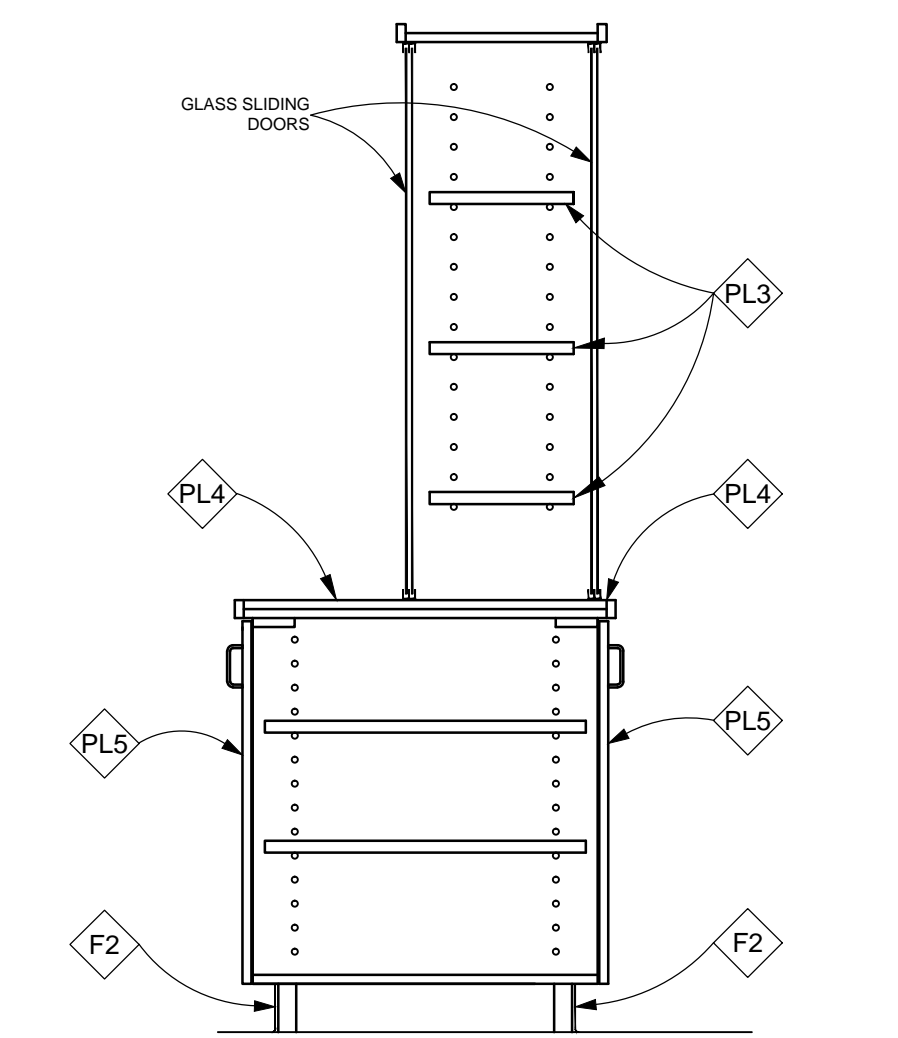
**C7 BASE DETAIL AT TOEKICK**  
 1/2"=1'-0"



**A1 INTAKE EXAM #152** 3/8"=1'-0"  
**A3 INTAKE FP/LAUNDRY/BATHE #153** 3/8"=1'-0"



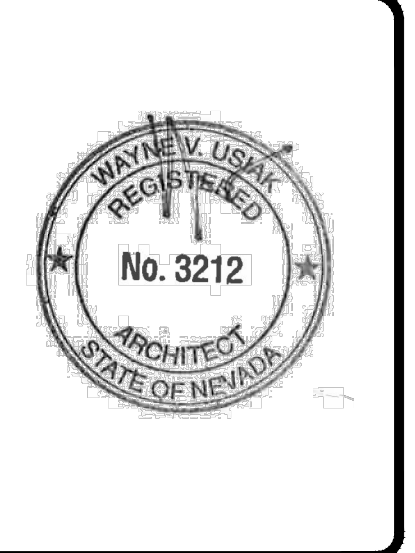
**A5 INTAKE FP/LAUNDRY/BATHE #153** 3/8"=1'-0"  
**A8 EUTHANASIA #159** 3/8"=1'-0"



**A9 PASS THRU SECTION** 3/8"=1'-0" (#140, #141)

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**INTERIOR ELEVATIONS**

REV.#	DATE	COMMENTS
REVISION:		
REVISION:		
REVISION:		
REVISION:		

**REVIEWS**

INITIALS	REVISION
BV	BDA DSGN. REV.
	BDA TECH REV.

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Save Date: February 27, 2015 3:41 PM - Nu  
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DESIGN CRITERIA

- GOVERNING CODES AND MANUALS :
1. INTERNATIONAL BUILDING CODE (2012) WITH AMENDMENTS / ASCE 7-10
2. AISC MANUAL OF STEEL CONSTRUCTION - (9TH EDITION)
3. ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL REINFORCED CONCRETE. ACI 318 - 08.
4. NATIONAL DESIGN SPECIFICATION FOR WOOD (2005).
5. LATEST CODE AND SPECIFICATIONS FOR REINFORCED MASONRY
GENERAL :
1. BUILDING CATEGORY II (IBC, TBL 1604.5).
2. IMPORTANCE FACTORS:
Ie (SEISMIC) = 1.0, Is (SNOW) = 1.0, Iw (WIND) = 1.0
3. LOAD COMBINATIONS :
BASIC STRENGTH DESIGN (BC, 1605.2.1).
BASIC ALLOWABLE STRESS DESIGN (IBC, 1605.3.1).
4. DEFLECTIONS (IBC, TBL 1604.3).

DESIGN LOADS

VERTICAL LOADINGS :

Table with columns: ROOF, TYPE 1 = SHINGLES/LINER/METAL, TYPE 2 = CLAY TILE, TYPE 3 = CONCRETE

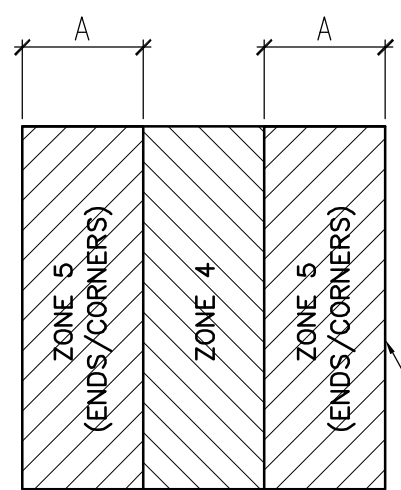
Table with columns: DESCRIPTION, DEAD LOAD (PSF), LIVE LOAD (PSF), REMARKS. Rows include ROOF, SNOW LOADS, FLOOR, WALLS.

FLOORS table with columns: TYPE 1 = WOOD SHEATHING, TYPE 2 = METAL DECK/CONCRETE, TYPE 3 = CONCRETE

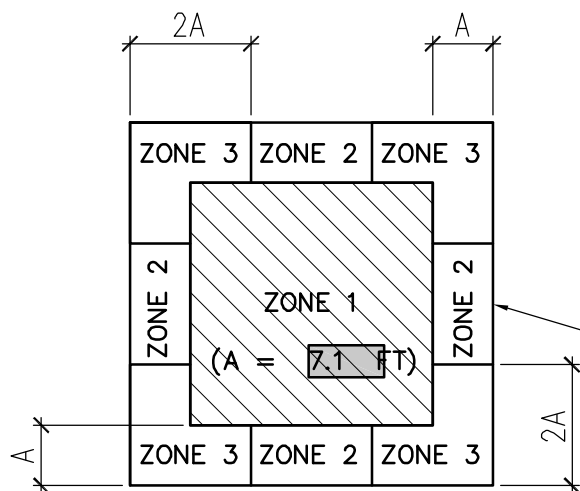
WALLS table with columns: TYPE 1 = WOOD/METAL, TYPE 2 = MASONRY, TYPE 3 = CONCRETE

LATERAL LOADINGS :

- WIND LOADS :
1. BASIC WIND SPEED (3-SECOND GUST) = 126 MPH
2. WIND EXPOSURE = C (PER BUILDING OFFICIAL)
3. PRESSURE COEFFICIENTS = .18
4. MAIN LATERAL FORCE RESISTING SYSTEM:
WINDWARD (WORST CASE) = 27.6 PSF
LEEWARD (WORST CASE) = 7.3 PSF



TYPICAL EXTERIOR WALL ZONES



TYPICAL PLAN OF ROOF ZONES

- 5. COMPONENTS & CLADDING (WALLS)
6. ROOF WIND LOAD UPLIFTS
ZONE 4 (MAX) = -33 PSF - AWAY FROM CORNERS
ZONE 5 (MAX) = -37 PSF - NEAR CORNERS (WITHIN A DISTANCE)
ZONE 1 (MAX) = -29 PSF (UPLIFT) - GROSS
ZONE 2 (MAX) = -41 PSF (UPLIFT) - GROSS
ZONE 3 (MAX) = -65 PSF (UPLIFT) - GROSS

GENERAL NOTES

- THESE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS AND OTHER PERSONS DURING CONSTRUCTION.
APPLY UNLESS SPECIFICALLY SHOWN OR NOTED TYPICAL DETAILS AND NOTES ON THESE SHEETS SHALL OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS.
WRITING DURING THE BIDDING PERIOD OF ANY THE CONTRACTOR SHALL INFORM THE ENGINEER IN DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS OR OF ANY VARIATIONS REGULATIONS.
FOR CLARITY, ALL OPENINGS MAY NOT BE SHOWN ON DRAWINGS. SEE ALSO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING PLANS.
ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS.
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS AT THE JOB SITE DURING CONSTRUCTION AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED.
NO STRUCTURAL CHANGE FROM THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE IN THE FIELD UNLESS WRITTEN APPROVAL IS OBTAINED PRIOR TO MAKING SUCH CHANGE.
THE MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF THE REQUIRED INSERTS WITH THE GENERAL CONTRACTOR.
THE MECHANICAL CONTRACTOR SHALL FURNISH ALL NECESSARY STRUCTURES FOR MECHANICAL EQUIPMENT, HANGING DEVICES AND INSERTS FOR INSTALLATION OF MECHANICAL EQUIPMENT.

DO NOT SCALE DRAWINGS.

SOILS REPORT BY: RESOURCE CONCEPTS, INC DRAFT JAN 9, 2015. Table with columns: SOIL PRESSURES, FOOTINGS (SPREAD), GROUND SLABS, CONTINUOUS FOOTINGS.

SEISMIC LOADS :

- PLAN STRUCTURAL IRREGULARITIES
1a - TORSIONAL IRREGULARITY
1b - EXTREME TORSIONAL IRREGULARITY
2 - RE-ENTRANT CORNERS
3 - DIAPHRAGM DISCONTINUITY
4 - OUT-OF-PLAN OFFSETS
5 - NON-PARALLEL SYSTEMS
VERTICAL IRREGULARITIES
1a - STIFFNESS IRREGULARITY - SOFT STORY
1b - STIFFNESS IRREGULARITY - EXTREME SOFT STORY
2 - WEIGHT (MASS) IRREGULARITY
3 - VERTICAL GEOMETRY IRREGULARITY
4 - IN-PLAN DISCONTINUITY IN VERTICAL LATERAL FORCE RESISTING ELEMENTS
5 - DISCONTINUITY IN CAPACITY - WEAK STORY

- ANALYSIS PROCEDURE: EQUIVALENT STATIC METHOD
1. MAPPED SPECTRAL RESPONSE ACCELERATIONS
2. SITE CLASS (BASED ON GEOTECHNICAL DATA)
3. SPECTRAL RESPONSE COEFFICIENTS
4. SEISMIC DESIGN CATEGORY
5. RESPONSE MODIFICATION FACTOR (R)
6. SEISMIC RESPONSE COEFFICIENT [CS/1.4]

SUPPLEMENTARY NOTES

- CERTIFICATIONS :
REINFORCING OR THREADED RODS DRILLED AND EPOXIED INTO CONCRETE AS DETAILED OR NOTED ON THE CONSTRUCTION DOCUMENTS SHALL BE ONE OF THE FOLLOWING OR APPROVED EQUIVALENT :
EXPANSION BOLTS DRILLED AND INSTALLED INTO CONCRETE AS DETAILED OR NOTED ON THE CONSTRUCTION DOCUMENTS SHALL BE ONE OF THE FOLLOWING OR APPROVED EQUIVALENT :
DEFERRED SUBMITTALS :
THE FOLLOWING PRE-MANUFACTURED ELEMENTS SHALL BE SUBMITTED AND REVIEWED BY THE CITY BUILDING OFFICIAL PRIOR TO INSTALLATION.
THE ARCHITECT AND ENGINEER OF RECORD SHALL REVIEW THESE SUBMITTALS PRIOR TO SUBMITTAL TO THE CITY BUILDING OFFICIAL :
1. OPEN WEB WOOD TRUSSES - MUST BE SUBMITTED FOR REVIEW W/ MANUF. ENGINEER STAMP

SHOP DRAWINGS

- THE STRUCTURAL SHOP DRAWING REVIEW IS INTENDED TO HELP THE ENGINEER VERIFY HIS DESIGN CONCEPT. THE REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE DESIGN DRAWINGS AND SPECIFICATIONS.
THE STRUCTURAL SHOP DRAWINGS SHALL BE CHECKED BY THE CONTRACTOR PRIOR TO SUBMITTAL. THE SHOP DRAWINGS WILL BE RETURNED FOR RESUBMITTAL IF A CURSORY REVIEW SHOWS MAJOR ERRORS WHICH SHOULD HAVE BEEN FOUND BY THE CONTRACTOR'S CHECKING.

REQUIRED SHOP DRAWING SUBMITTALS

- CONCRETE REINFORCING (LAYOUT)
CONCRETE MIX DESIGN
PRE-ENGINEERED WOOD TRUSSES (LAYOUT)
STRUCTURAL STEEL LAYOUT
MASONRY WALL LAYOUT/REINFORCING

ABBREVIATIONS

- (THIS IS A COMPREHENSIVE LIST OF ABBREVIATIONS, SOME OF WHICH MAY NOT APPEAR ON THESE DRAWINGS.)
A.B. ANCHOR BOLT
A.P.A. AMERICAN PLYWOOD ASSOCIATION
A.S.T.M. AMERICAN SOCIETY OF TESTING MATERIALS
ARCH. ARCHITECTURAL
ASD. ALLOWABLE STRESS DESIGN
BLDG. BUILDING
BLK. BLOCK
BM. BEAM
B.N. BOUNDARY NAILING
B.O. BOTTOM OF
BTM. BOTTOM
BRG. BEARING
BRK. BRICK
C. CHANNEL
C.J. CONTROL JOINT
CCJ. CONSTRUCTION CONTROL JOINT
CLR. CLEAR
CMU. CONCRETE MASONRY UNIT
COL. COLUMN
CONC. CONCRETE
CONN. CONNECTION
CONT. CONTINUOUS
CORR. CORRIDOR
DBL. DOUBLE
DTL. DETAIL
DIA. DIAMETER
DIM. DIMENSION
DL. DEAD LOAD
D.T. DOUBLE TEE / DRAIN TILE
DWL. DOWEL
EA. EACH
EF. EACH FACE
EJ. EXPANSION JOINT
EL. ELEVATION
ELEV. ELEVATOR
E.N. EDGE NAILING
E.S. EDGE SCREW
EQ. EQUAL
EW. EACH WAY
EXIST. EXISTING
EXP. EXPANSION
F.D. FLOOR DRAIN
FDN. FOUNDATION
FTG. FOOTING
FT. FEET
GALV. GALVANIZE
GA. GAUGE
M.O. MECHANICAL OPENING
N. NORTH
NTS. NOT TO SCALE
O.C. ON CENTER

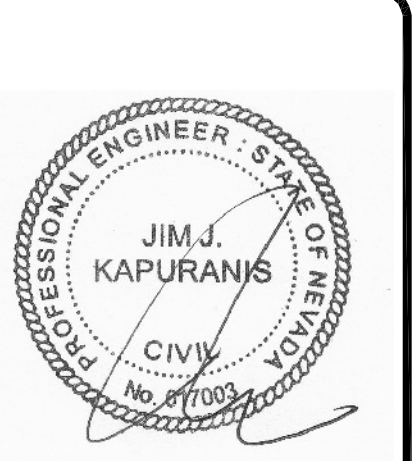
SYMBOLS

- SECTION / ELEVATION
FIELD WELD
ELEVATION / TOP OF \_ / BRG.
MOMENT CONNECTION
SLAB DEPRESSION
STEPPED FOOTING
CENTER LINE
PLATE
ANGLE
SQUARE
DIAMETER

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GENERAL NOTES table with columns: REVISION, DATE, COMMENTS. Includes INITIALS and REVIEWS.

CCAS
PROJECT NO.: 1107
DRAWN:
DATE: 2/10/15

S0.1 OF



CONCRETE

- PROTECT FRESHLY POURED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD AND HOT TEMPERATURES. START CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM THE CONCRETE SURFACE AFTER PLACING AND FINISHING. ALL CURING PROCEDURES TO FOLLOW ACI 308.
PROTECT CONCRETE FROM DAMAGE AND REDUCED STRENGTH CAUSED BY FROST, FREEZING ACTIONS AND LOW TEMPERATURES IN COMPLIANCE WITH ACI 306.
PROTECT CONCRETE FROM DAMAGE AND REDUCED STRENGTH CAUSED BY HIGH TEMPERATURES IN COMPLIANCE WITH ACI 305. UNIFORMLY COOL WATER AND AGGREGATES BEFORE MIXING TO OBTAIN A CONCRETE MIXTURE TEMPERATURE OF NOT GREATER THAN 90 DEGREES FAHRENHEIT AT POINT OF PLACEMENT.
REMOVE ALL DEBRIS FROM FORMS BEFORE POURING.
CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL SO AS TO CAUSE SEGREGATION OF AGGREGATES. USE HOPPERS, CHUTES OR TRUNKS OF VARIOUS LENGTHS SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED (5) FEET, AND A SUFFICIENT NUMBER SHALL BE USED TO ENSURE THE CONCRETE IS KEPT LEVEL AT ALL TIMES.
ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES ETC. SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE.
REFER TO SHEET S0.2A FOR CONTROL/CONSTRUCTION AND ISOLATION JOINT DETAILS.
ALL HARDWOOD CONCRETE SHALL BE OF REGULAR WEIGHT OF 145 POUNDS PER CUBIC FOOT.
AGGREGATE SIZE SHALL CONFORM TO ASTM C33.
CONCRETE GROUT SHALL BE NON-SHRINKING WITH SUFFICIENT WATER TO ALLOW POURING. ULTIMATE COMPRESSIVE STRENGTH (F'c) AT (28) DAYS SHALL BE EQUAL TO 4000 PSI (MIN).
NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACING UNLESS APPROVED BY TESTING AGENCY. CONCRETE SHALL BE PLACED WITHIN 15 MINUTES AFTER DISCHARGE.
ONE GRADE OF CONCRETE SHALL BE POURED AT THE JOB SITE AT ANY ONE TIME.
CONTRACTOR SHALL COORDINATE PLACEMENT OF ALL OPENINGS, CURBS, DOWELS, SLEEVES, CONDUITS, BOLTS AND EMBEDS REQUIRED WITH MECH., ELC., AND EQUIPMENT MANUFACTURERS PRIOR TO PLACEMENT.
NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE CONCRETE SHALL BE EMBEDDED IN CONCRETE.
CURING: PROVIDE 7-DAY MINIMUM CONTINUOUS CURE ON ALL CONCRETE SURFACES AS SPECIFIED.
ALL CONCRETE TESTS INCLUDING AIR CONTENT, SLUMP, AND TEST CYLINDERS SHALL BE TAKEN AT THE POINT OF DISCHARGE AND FROM THE DISCHARGE END OF PUMP HOSE WHEN CONCRETE IS PUMPED.
ADMIXTURES
TYPE OF ADMIXTURE DESCRIPTION
Accelerators (ASTM C494) Accelerating setting and early-strength development.
Air detrainers Decrease air content.
Air-entraining admixtures (ASTM C260) Improve durability in freeze-thaw, deicer, sulfate and alkali-reactive environments; improve workability by introducing air bubbles in concrete.
Alkali-aggregate reactivity inhibitors Reduce alkali-aggregate reactivity expansion.
Coloring admixtures (ASTM C379) Colored concrete.
Corrosion inhibitors (ASTM C1582) Reduce steel corrosion activity in a chloride-laden environment.
Hydration control admixtures Suspend and reactivate cement hydration with stabilizer and activator.
Retarding admixtures (ASTM C494 and AASHTO M 194, Type B) Retard setting time.
Shrinkage reducers Reduce drying shrinkage.
Superplasticizers (ASTM C1017, Type 1) Increase flowability of concrete; Reduce water-cement ratio.
Water reducer (ASTM C494 and AASHTO M 194, Type A) Reduce water content at least 5%.
Synthetic Micro Fibers Reduce plastic and crazing cracks.

CONCRETE QUALITY (ACI 318-08)

CEMENT TYPE (ASTM C150)
TYPE OF PORTLAND CEMENT DESCRIPTION
Type I General-purpose for pavements, floors, reinf. conc. buildings, bridges, tanks, reservoirs, pipe, masonry units and pre-cast conc. products.
Type IA (Exterior) Type I cement w/ air entraining.
Type II Used for moderate sulfate attack.
Type IIA Type II cement w/ air entraining.
Type III High early strength (one week or less).
Type IIIA Type III w/ air entraining.
Type IV Used where rate/amount of heat generated from hydration must be minimized.
Type V Used for severe sulfate attack.

COMPRESSIVE STRENGTH AND WATER-CEMENT RATIO (BY MASS) (ACI 211.1 & 211.3)
COMPRESSIVE STRENGTH @ 28 DAYS (PSI) EXPOSURE CATEGORY WATER-CEMENT RATIOS
NON-AIR ENTRAINED AIR ENTRAINING
7000 F0, S0, P0, C0 0.33 -
6000 0.41 0.32
5000 0.48 0.40
4000 0.57 0.48
3000 0.68 0.59
2000 0.82 0.74
4000 P1, S1 0.50 -
4500 F1, F2, F3, S2 0.45 -
5000 C2, S3 0.40 -

AIR CONTENT (ACI 211.1) (%)
EXPOSURE AGGREGATE SIZE (IN)
MILD 3/8 1/2 3/4 1 1 1/2 2 3 6
MODERATE (F1) 6.0 5.5 5.0 4.5 4.5 3.5 3.5 3.0
SEVERE (F2 & F3) 7.5 7.0 6.0 5.5 5.0 4.5 4.0 4.0

EXPOSURE CATEGORY EXPOSURE CONDITION
F0, S0, P0, C0 Concrete protected from exposure to freezing and thawing, application of deicing chemicals, or aggressive substances.
P1 Concrete intended to have low permeability when exposed to water.
F1, F2, F3 Concrete exposed to freezing and thawing in a moist condition or deicers.
C2 For corrosion protection for reinforced concrete exposed to chlorides from deicing salts, salt water, brackish water, seawater, or spray from these sources.

SULFATE EXPOSURE CLASS SULFATE (SO4) IN SOIL, % BY MASS SULFATE (SO4) IN WATER, PPM
S0 Negligible Less than 0.10 Less than 150
S1 Moderate\*\* 0.10 to 0.20 150 to 1500
S2 Severe 0.20 to 2.00 1500 to 10,000
S3 Very Severe Over 2.00 Over 10,000

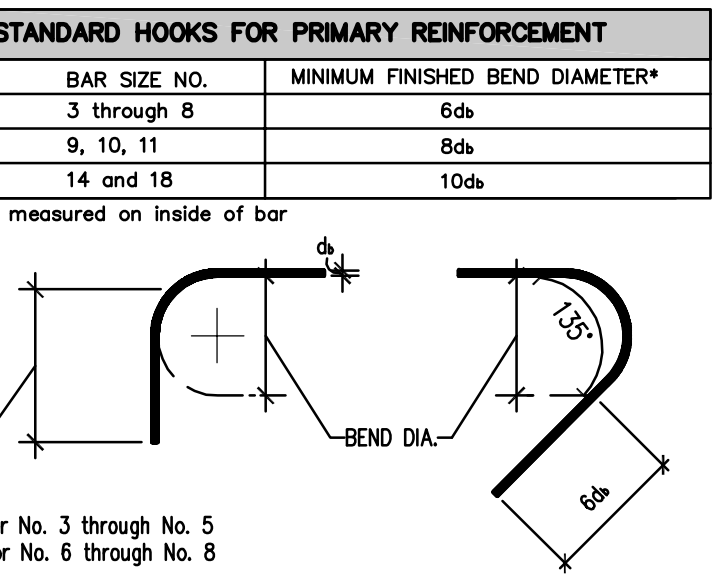
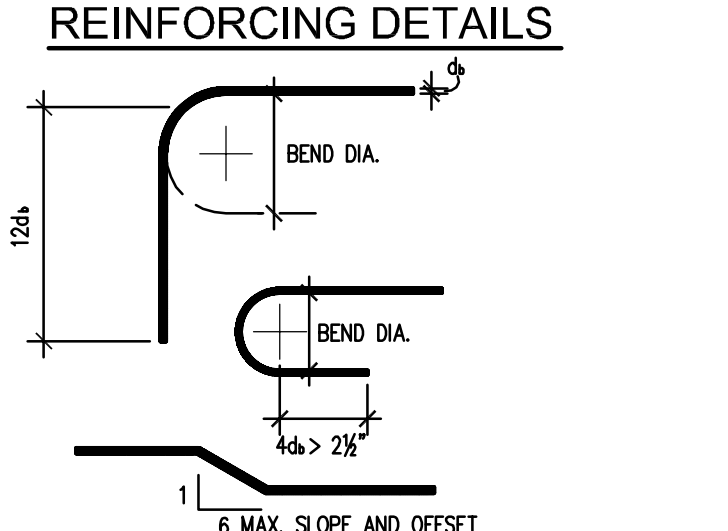
SLUMP (ACI 211.1)
TYPE OF CONSTRUCTION SLUMP (IN)
MAXIMUM MINIMUM
Reinforced foundation walls and footings 6 3
Unreinforced footings, coissons, and sub-structure walls 4 1
Reinforced slabs, beams, and walls 6 3
Building columns 6 4
Pavements 3 1
Heavy mass construction 3 1
Bridge decks 4 3
Sidewalk, driveway, and slabs on ground 5 3

CONCRETE REINFORCING

- FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CRSI MSP-1 "MANUAL OF STANDARD PRACTICE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE."
ALL REINFORCING STEEL SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS.
#3 BARS..... GRADE 40
#4 & LARGER BARS..... GRADE 60
WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
ALL BENDS SHALL BE MADE COLD.
ALL WALLS AND COLUMNS SHALL BE DOWELED INTO FOOTING WITH BARS OF THE SAME SIZE AND SPACING AS THE BARS ABOVE (U.O.N. ON PLANS).
ALL REINFORCING STEEL SHALL BE SECURELY WIRED AND PROPERLY SUPPORTED ABOVE THE GROUND AND AWAY FROM FORMS.
PROVIDE CORNER BARS THE SAME SIZE AND SPACING AS THE HORIZ. REINF. AT THE CORNERS AND INTERSECTION OF ALL WALLS, BEAMS AND FOOTINGS (U.O.N. ON PLANS).
CONTINUOUS FOOTING REINFORCEMENT SHALL HAVE A MINIMUM LAP PER SCHEDULE AND THE SPLICES IN ADJACENT BARS SHALL NOT BE LESS THAN (3) FEET APART.
ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" ARE TO CENTER OF STEEL. MINIMUM REBAR COVER FOR CONCRETE SHALL BE AS FOLLOWS:

REINFORCING DEVELOPMENT LENGTHS / SPLICES
CONCRETE
TENSION SPLICE
CLASS A
CLASS B OR CLASS B
DEVELOPMENT LENGTHS
CLASS A
CLASS B

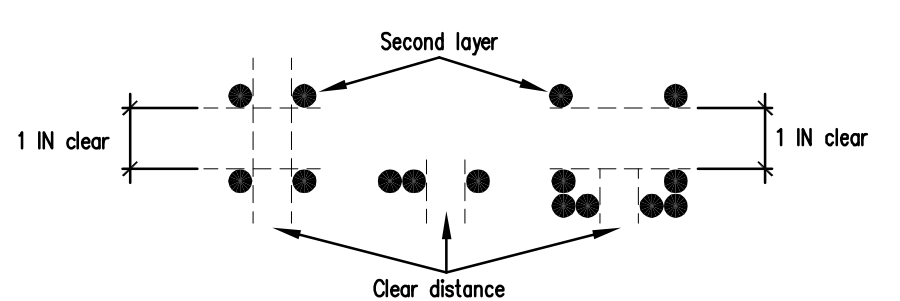
- TOLERANCES FOR LONGITUDINAL LOCATION OF BENDS AND ENDS OF REINFORCEMENT SHALL BE PLUS OR MINUS (2) INCHES EXCEPT AT DISCONTINUOUS ENDS OF MEMBERS WHERE TOLERANCES SHALL BE PLUS OR MINUS 1/2 INCH.
REINFORCING FOR CONCRETE POURED ON GRADE SHALL BE SUPPORTED BY STEEL CHAIRS.



NOTE:
INDICATES CONCRETE QUALITIES REQUIRED

CONCRETE REINFORCING (CONTINUED)

STANDARD HOOKS FOR STIRRUPS & TIE REINFORCEMENT
BAR SIZE NO. MINIMUM FINISHED BEND DIAMETER\*
3 through 5 4ds
6 through 8 6ds
\* measured on inside of bar
STIRRUP SIZE/SPACING -- TYPICAL (U.O.N.)
LATERAL TIES STIRRUP SIZE SPACING
MAIN REINF. (db) STIRRUP SIZE SPACING
Lesser of:
a. 16db
b. 48 x Stirrup Dia.
c. Least Col./8m. Dim.
SPIRAL TIES STIRRUP SIZE SPACING
Max spacing = 3"



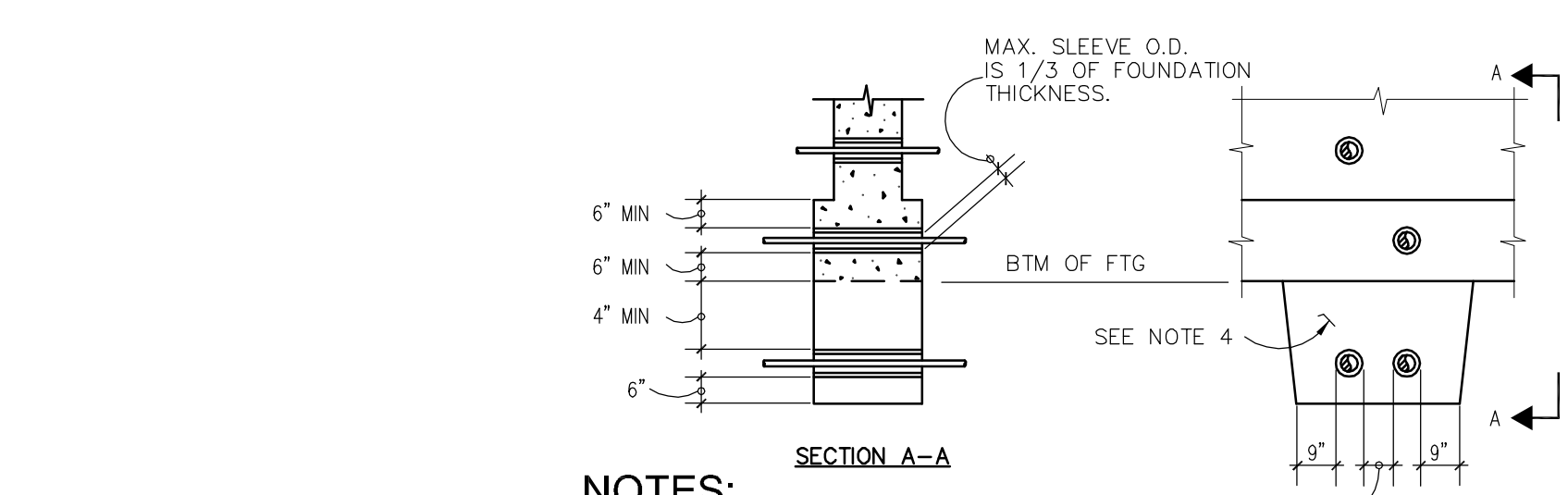
CLEAR DISTANCES FOR REINFORCEMENT
REINFORCEMENT TYPE MEMBER TYPE CLEAR DISTANCE
Deformed bars Beams/Walls \* db >= 1 IN
Columns \*\* 1.5db >= 1 1/2
\* If db < 1 inch, use 1 inch. Otherwise, use db.
\*\* If 1.5db < 1 1/2 inches, use 1 1/2 inches. Otherwise, use 1.5db.

REINFORCING DEVELOPMENT LENGTHS / SPLICES

CONCRETE
TENSION SPLICE
Ld VALUES (IN), CLASS A
BAR SIZE 2000 3000 4000 5000 6000 7000 8000 9000 10000
#3 27 22 21 21 21 21 21 21 21
#4 36 29 26 23 21 21 21 21 21
#5 45 37 32 29 26 24 23 21 21
#6 54 44 38 34 31 29 27 26 24
#7 63 52 45 40 36 34 32 30 28
#8 72 59 51 46 42 39 36 34 32
#9 81 67 58 52 47 44 41 38 36
#10 92 75 65 58 53 49 46 43 41

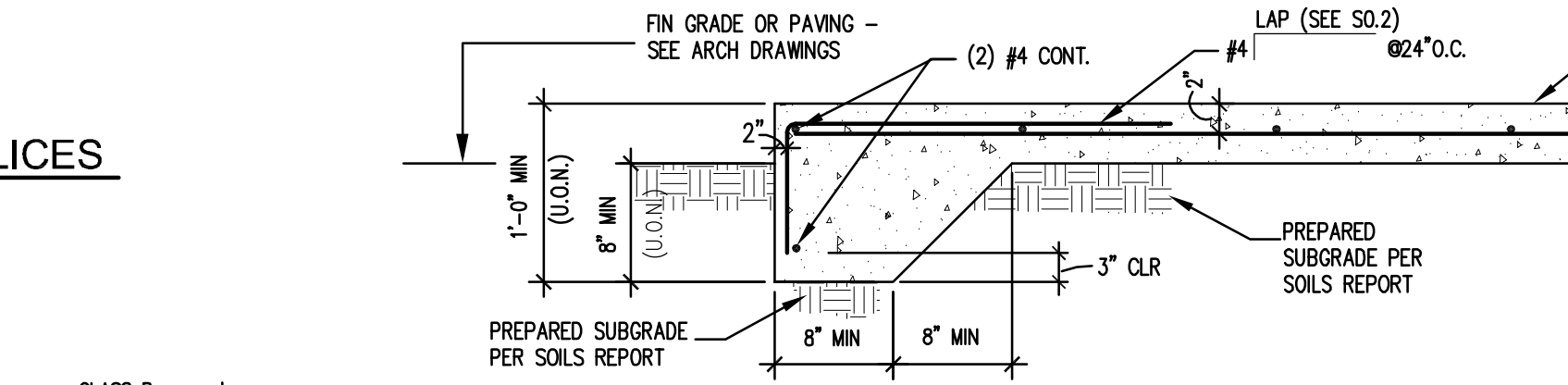
Ld VALUES (IN), CLASS B
BAR SIZE 2000 3000 4000 5000 6000 7000 8000 9000 10000
#3 35 29 27 27 27 27 27 27 27
#4 47 38 33 30 27 27 27 27 27
#5 59 48 42 37 34 31 29 28 27
#6 70 58 50 45 41 38 35 33 32
#7 82 67 58 52 47 44 41 39 37
#8 94 77 66 59 54 50 47 44 42
#9 106 86 75 67 61 57 53 50 47
#10 119 97 84 75 69 64 60 56 53

DEVELOPMENT LENGTHS
Ld VALUES (IN)
BAR SIZE 2000 3000 4000 5000 6000 7000 8000 9000 10000
#3 27 22 21 21 21 21 21 21 21
#4 36 29 26 23 21 21 21 21 21
#5 45 37 32 29 26 24 23 21 21
#6 54 44 38 34 31 29 27 26 24
#7 63 52 45 40 36 34 32 30 28
#8 72 59 51 46 42 39 36 34 32
#9 81 67 58 52 47 44 41 38 36
#10 92 75 65 58 53 49 46 43 41



- NOTES:
1. DO NOT PASS PIPES UNDER OR THROUGH ISOLATED FOUNDATIONS.
2. PROVIDE SLEEVES FOR ALL PIPES PASSING THROUGH CONCRETE WITH I.D. 2" LARGER THAN PIPE.
3. CLEARANCE BETWEEN ADJACENT SLEEVES SHALL BE LESS THAN DIA. OF LARGER SLEEVE OR 6" MINIMUM.
4. FOR PIPES BELOW FOUNDATIONS, EXCAVATE AS SHOWN AND FILL WITH CONCRETE PRIOR TO PLACING FOUNDATIONS.

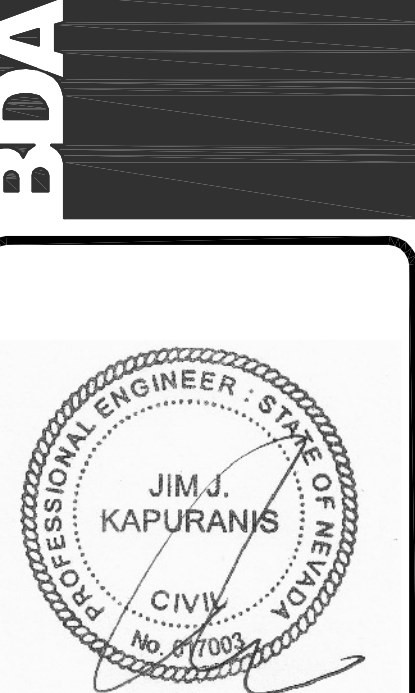
TYPICAL PIPE PENETRATIONS THROUGH FOOTINGS



TYPICAL EXTERIOR TURNDOWN SLAB EDGE



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CONCRETE GENERAL NOTES & DETAILS
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REVISION:
DATE:
COMMENTS

REVIEWS
INITIALS BDA DSGN. REV.
BDA TECH REV.

CCAS
PROJECT NO: 1107
DRAWN:
DATE: 2/10/15

S0.2 OF

# CONCRETE SLAB-ON-GRADE REQUIREMENTS

## GENERAL

1. SAW-CUT JOINTS AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR WITHOUT DISTURBING THE FINAL FINISH.
2. THE DEPTH OF SAW-CUT WHEN USING A WET CUT SAW SHALL BE 1/4" THE SLAB THICKNESS.
3. PROVIDE CONSTRUCTION JOINT AT THE END OF CONCRETE PLACEMENT FOR THE DAY. SEE DETAIL A (THIS SHEET).
4. SEE FOUNDATION AND/OR CONTROL JOINT PLAN FOR ADDITIONAL INFORMATION.
5. SEE GENERAL NOTE SHEET S0.2 FOR ADDITIONAL CONCRETE REQUIREMENTS.
6. CONTRACTOR TO FAMILIARIZE HIMSELF WITH SOILS REPORT FOR SUBGRADE PREPARATION.

## DESIGN

THE FOLLOWING MINIMUM ALLOWABLE REINFORCING RATIO USED IN THE DESIGN IS AS FOLLOWS:  
 .1 % FOR WELDED WIRE FABRIC  
 .2 % FOR REINFORCING BARS  
 THIS MINIMUM REINFORCING RATIO IS FOR SHRINKAGE AND KEEPING RANDOM CRACKING TIGHT. IT ALSO ALLOWS FOR LONGER JOINT SPANS.

CONTROL /CONTRACTION JOINT SPACING WITH MINIMUM REINFORCING IS BASED ON THE FOLLOWING SUBGRADE DRAG FORMULA:

$$A_s = FLW / 2 F_s \quad \text{WHERE:}$$

- A<sub>s</sub> CROSS-SECTION AREA OF STEEL, IN SQUARE INCHES PER LINEAL FOOT OF SLAB WIDTH
- F COEFFICIENT OF SUBGRADE FRICTION. (DESIGNERS USE 1.5 OR 2.0 FOR PAVEMENTS; 1.5 IS RECOMMENDED FOR CONCRETE FLOORS ON GROUND.)
- L SLAB LENGTH (OR WIDTH IF APPROPRIATE) BETWEEN FREE ENDS, IN FEET. (A FREE END IS ANY JOINT FREE TO MOVE IN A HORIZONTAL PLANE.)
- W WEIGHT OF SLAB, IN POUNDS PER SQUARE FOOT. (FOR NORMAL-WEIGHT CONCRETE, DESIGNERS USE 12.5 POUNDS PER INCH OF FLOOR THICKNESS.)
- F<sub>s</sub> ALLOWABLE WORKING STRESS OF REINFORCEMENT, IN POUNDS PER SQUARE INCH. (THE WORKING STRESS OF STEEL IS USUALLY 0.67 TO 0.75 TIMES THE YIELD STRENGTH OF THE STEEL IN POUNDS PER SQUARE INCH.)

## DEFINITIONS

### ISOLATION JOINTS

ISOLATION JOINTS ARE PLACED WHEREVER COMPLETE SEPARATION BETWEEN THE FLOOR AND ADJOINING CONCRETE IS NEEDED TO ALLOW THEM TO MOVE INDEPENDENTLY WITHOUT DAMAGE. ISOLATION JOINTS PERMIT HORIZONTAL AND VERTICAL MOVEMENT BETWEEN THE ABUTTING FACES OF THE FLOOR SLAB AND OTHER PARTS OF THE BUILDING BECAUSE THERE IS NO KEYWAY, BOND OR MECHANICAL CONSTRUCTION ACROSS THE JOINT.

### CONTROL / CONTRACTION JOINTS

CONTROL JOINTS (ALSO CALLED CONTRACTION JOINTS) ACT TO RELIEVE STRESS AND WITH PROPER SPACING (SEE CONTROL JOINT PLAN) THEY ELIMINATE THE CAUSE OF UNCONTROLLED RANDOM CRACKING. THEY ALLOW HORIZONTAL MOVEMENT OF THE SLAB. THE OBJECTIVE IS TO FORM A PLANE OF WEAKNESS IN THE SLAB SO THAT THE CRACK WILL OCCUR ALONG THAT LINE AND NOWHERE ELSE. AS SHOWN ON SECTIONS ON THIS SHEET ALL SLAB REINFORCING MUST BE DISCONTINUOUS THROUGH JOINT. LOAD TRANSFER ACROSS THE CONSTRUCTION JOINT IS PROVIDED BY USE OF DOWELS (A BOND SHEET IS USED ON ONE END TO ALLOW HORIZONTAL MOVEMENT).

### CONSTRUCTION JOINT

CONSTRUCTION JOINTS ARE STOPPING PLACES AND FORM THE EDGE OF EACH DAY'S WORK. THEY FREQUENTLY ALIGN WITH CONTROL / CONTRACTION JOINTS OR ISOLATION JOINTS. WHENEVER CONTINUOUS CONCRETE PLACEMENT WILL BE INTERRUPTED FOR 30 MINUTES OR MORE, A BONDED OR TIED CONSTRUCTION JOINT SHOULD BE FORMED AND DEFORMED REINFORCING BARS ADDED. IF THE CONSTRUCTION JOINT OCCURS WITHIN THE PANEL (I.E. BETWEEN SPECIFIED CONTROL / CONTRACTION JOINTS) ALL REINFORCING MUST CONTINUE THROUGH THE CONSTRUCTION JOINT.

### VISIBLE CONDITIONS THAT MAY OCCUR DURING CONSTRUCTION

#### RANDOM CRACKING

WHEN RANDOM CRACKING OCCURS ON A NEWLY PLACED SLAB, IT IS USUALLY RELATED TO IMPROPER TIMING OF JOINT SAWING. THE PURPOSE OF CUTTING THE SLAB IS TO INDUCE A CRACK BENEATH THE CUT.

CONCRETE NEEDS TO GAIN ADEQUATE STRENGTH BEFORE HAVING JOINTS CUT INTO IT. IDEALLY, THE TENSILE STRENGTH HOLDS THE SLAB TOGETHER. THE SAWCUT NOTCH CREATES A REDUCED SLAB SECTION, WHICH INCREASES TENSILE STRESSING IN THE CONCRETE BELOW THE NOTCH. IN THE REDUCED SECTION, THE TENSILE STRESS IS OF GREATER MAGNITUDE THAN THE CONCRETE TENSILE STRENGTH. THIS A CRACK OCCURS BELOW THE NOTCH. THE CRACK AND SAWCUT COMBINE TO RELIEVE THE STRESSES AND THUS PREVENT UNWANTED RANDOM CRACKING. BUT NEW CONCRETE IS ALWAYS TRYING TO SHRINK. AS THE SAWBLADE CUTS A JOINT IN THE CONCRETE, THE SAWCUT WEAKENS THE CONCRETE SLAB. IF SAWCUTTING IS STARTED WHEN CONTRACTION STRESS (AS A RESULT OF CONCRETE SHRINKAGE) IS GREAT AND TENSILE STRENGTH IS NOT YET ADEQUATE TO RESIST IT, CRACKS CAN JUMP AHEAD OF THE BLADE DURING JOINT CUTTING.

IF COOLING WATER (USED WITH WET SAWING) HITS THE WARM SLAB, IT CAN BE A THERMAL SHOCK THAT ADDS TO THE POTENTIAL FOR RANDOM CRACKING AHEAD OF THE SAW BLADE.

TO AVERT RANDOM CRACKING, SAWCUT JOINTING MUST BE DONE BEFORE CONCRETE COOLING AND DRYING STARTS, BUT AFTER SOME (TENSILE) STRENGTH HAS DEVELOPED (7 HOURS MAXIMUM AFTER CONCRETE IS POURED). THE NOTCH INSTALLED BY SAWCUTTING SHOULD BE DEEP ENOUGH SO THAT THE CRACK OCCURS BELOW THE SAWCUT (3/4 OF THE SLAB THICKNESS IS SUFFICIENT).

#### BLEEDING AND SET RETARDING

EXCESSIVE BLEEDING THAT OCCURS AFTER CONCRETE PLACING, STRIKEOFF, AND BULLFLOATING CAN DELAY SUBSEQUENT FINISHING STEPS. IN MOST INSTANCES, THE CAUSE OF EXCESSIVE BLEEDING IS DUE TO ONE OF THE FOLLOWING:

- A WATER-CEMENT RATIO THAT IS TOO HIGH
- POOR AGGREGATE GRADATION
- SLOW SET TIMES
- AMBIENT CONDITIONS THAT HINDER SURFACE WATER EVAPORATION: LOW TEMPERATURES, HIGH HUMIDITY, OR LACK OF AIR MOVEMENT

#### BUSTLING AND DELAMINATIONS

BUSTLING IS THE CONVEX RAISING OF THE SURFACE MORTAR LAYER WHILE THE CONCRETE IS STILL PLASTIC. THE BUSTLERS ARE ATTRIBUTED TO SEALING THE FLOOR SURFACE BEFORE ALL THE BLEEDWATER AND AIR HAVE ESCAPED.

SIMILAR TO BUSTLING, DELAMINATION OF SURFACE MORTAR CAN OCCUR DUE TO ENTRAPMENT OF BLEEDWATER AND AIR BELOW THE PREMATURELY SEALED MORTAR SURFACE. DELAMINATIONS AFFECT LARGER SURFACE AREAS THAN BUSTLERS, AND ARE VERY DIFFICULT TO DETECT DURING FINISHING. THEY BECOME APPARENT AFTER CONCRETE SURFACE DRYING WHEN THE DELAMINATED AREA IS CRUSHED UNDER TRAFFIC. THE THICKNESS OF DELAMINATED MORTAR RANGES FROM ABOUT 3 MM TO 9 MM (1/8 IN TO 3/8 IN). THE AFFECTED AREA CAN BE ANYWHERE FROM A FEW SQUARE CENTIMETERS (INCHES) TO A FEW SQUARE METERS (YARDS).

IF THE CONCRETE HAS STIFFENED FROM THE TOP DOWN, AS IT OFTEN DOES WHEN WIND SPEEDS ARE HIGHER, THERE IS A TENDENCY TO FINISH THE SLAB TOO SOON, BEFORE BLEEDING IS COMPLETE. FINISHING OPERATIONS PERFORMED WHILE THE UNDERLYING CONCRETE IS STILL SOFT (AND BLEEDING) WILL SEAL THE SLAB SURFACE, POTENTIALLY TRAPPING BLEEDWATER AND LEADING TO DELAMINATIONS.

#### PLASTIC SHRINKAGE CRACKING

PLASTIC SHRINKAGE CRACKING IS DUE TO CONCRETE AT THE SURFACE DRYING (AND SHRINKING) BEFORE INITIAL SET OF THE CONCRETE OCCURS. PLASTIC SHRINKAGE OCCURS DURING AND AFTER FINISHING, USUALLY WHEN THERE IS RAPID EVAPORATION OF BLEED WATER. THE CONDITIONS THAT LEAD TO RAPID WATER EVAPORATION ARE LOW RELATIVE HUMIDITY, HIGH AIR TEMPERATURES, RAPID AIR MOVEMENT (WIND) ACROSS THE CONCRETE SURFACE, AND ELEVATED CONCRETE TEMPERATURES. UNDER THESE CONDITIONS THE CONCRETE SURFACE CAN CRUST OVER WHILE THE UNDERLYING CONCRETE IS STILL PLASTIC. AS PLASTIC SHRINKAGE CRACKS FORM, THEY START AT THE SURFACE AND MAY EXTEND SOME DEPTH INTO THE UNHARDENED CONCRETE. FLOATING THE CONCRETE SLAB CAN REPAIR PLASTIC SHRINKAGE CRACKS, BUT ONLY IF DONE IMMEDIATELY AS THE CRACKS OCCUR.

#### CRAZING

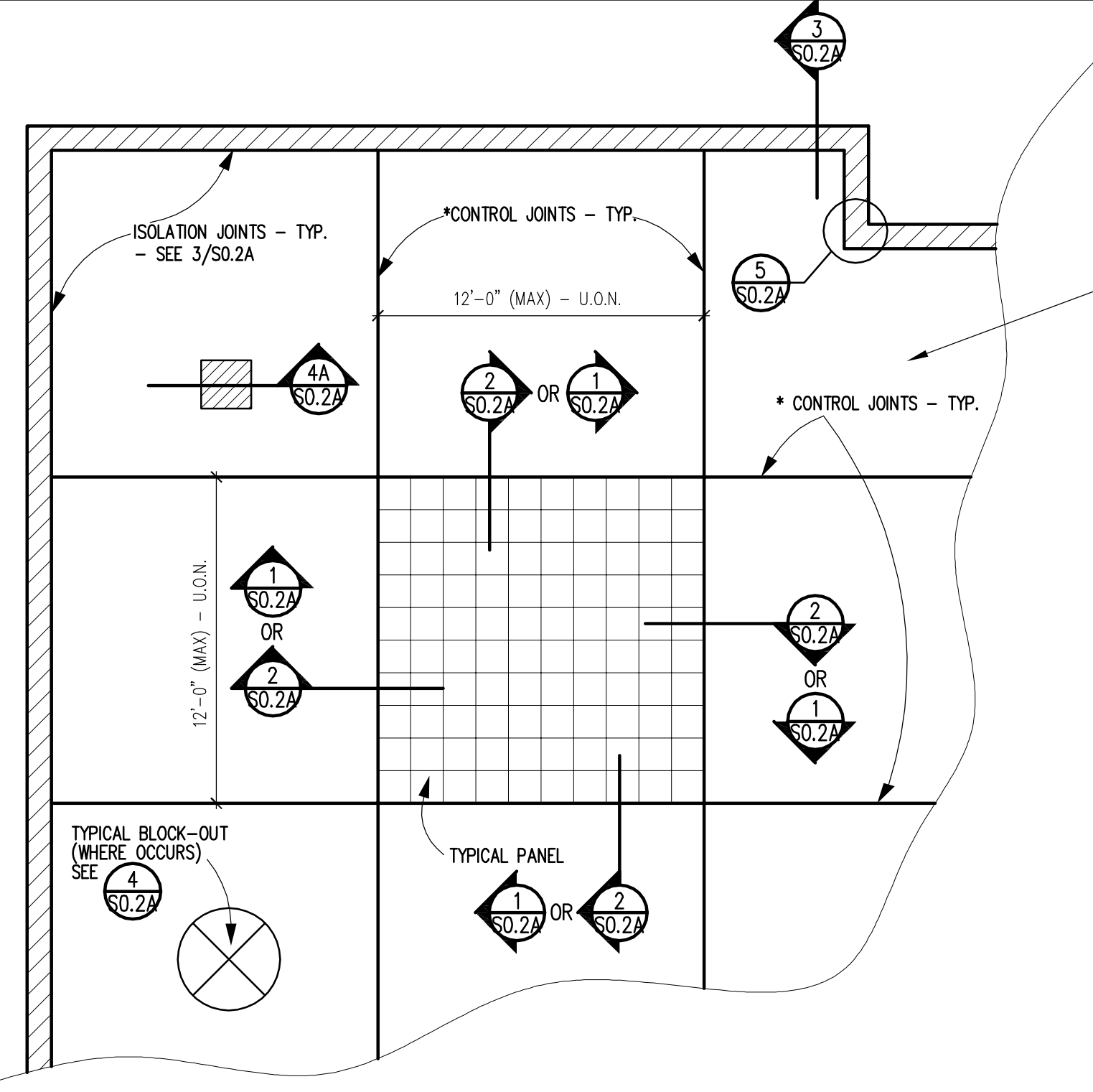
GRAZE CRACKS ARE FINE RANDOM CRACKS OR FISSURES IN A CONCRETE SURFACE. ON CONCRETE FLATWORK, THEY USUALLY EXTEND LESS THAN 3 MM (1/4 IN) BELOW THE SURFACE. THE CRACKS OCCUR WITHIN THE PASTE-RICH SURFACE MORTAR AND GENERALLY PASS THROUGH THE PASTE AND NOT THROUGH AGGREGATE PARTICLES. IT IS TYPICAL FOR THE CRACKS TO FORM A MAP PATTERN. THE NARROW CRACKS ARE SO FINE THAT THEY ARE DIFFICULT TO SEE. IN MANY INSTANCES, THEY ARE ONLY VISIBLE DURING THE DRYING PHASE OF A WETTED SURFACE OR WHEN A TRANSLUCENT COATING IS INSTALLED. CRAZE CRACKS ARE ATTRIBUTED TO INADEQUATE CURING THAT LEADS TO CONCRETE SURFACE DRYING AND COOLING BEFORE THE MORTAR HAS GAINED SUFFICIENT STRENGTH. THESE ARE COSMETIC BLEMISHES THAT GENERALLY HAVE NO EFFECT ON THE SERVICEABILITY OR DURABILITY OF THE FLOOR.

#### CURLING

WHEN THE EDGES AND CORNERS OF A FLOOR SLAB ON GROUND DISH UPWARD IN THE ABSENCE OF ANY LOADS OTHER THAN GRAVITY, THE SLAB IS SAID TO BE CURLING. IT IS USUALLY ATTRIBUTED TO DIFFERENCES IN MOISTURE CONTENT OR TEMPERATURE FROM TOP TO BOTTOM WITHIN THE SLAB. THESE TEMPERATURE AND MOISTURE GRADIENTS DEVELOP BETWEEN THE TOP AND BOTTOM SURFACES AS THE CONCRETE IN A FLOOR SLAB HARDENS. THE SLAB WILL CURL UP IF THE TOP IS TRYING AND COOLING (SHORTENING) WHILE THE BOTTOM REMAINS MOST AND WARM. UNDER OPPOSITE CONDITIONS, THE SLAB SHOULD THEORETICALLY CURL DOWN. DOWNWARD CURL AS SUCH, HOWEVER, DOES NOT OCCUR DUE TO SUBBASE RESTRAINT.

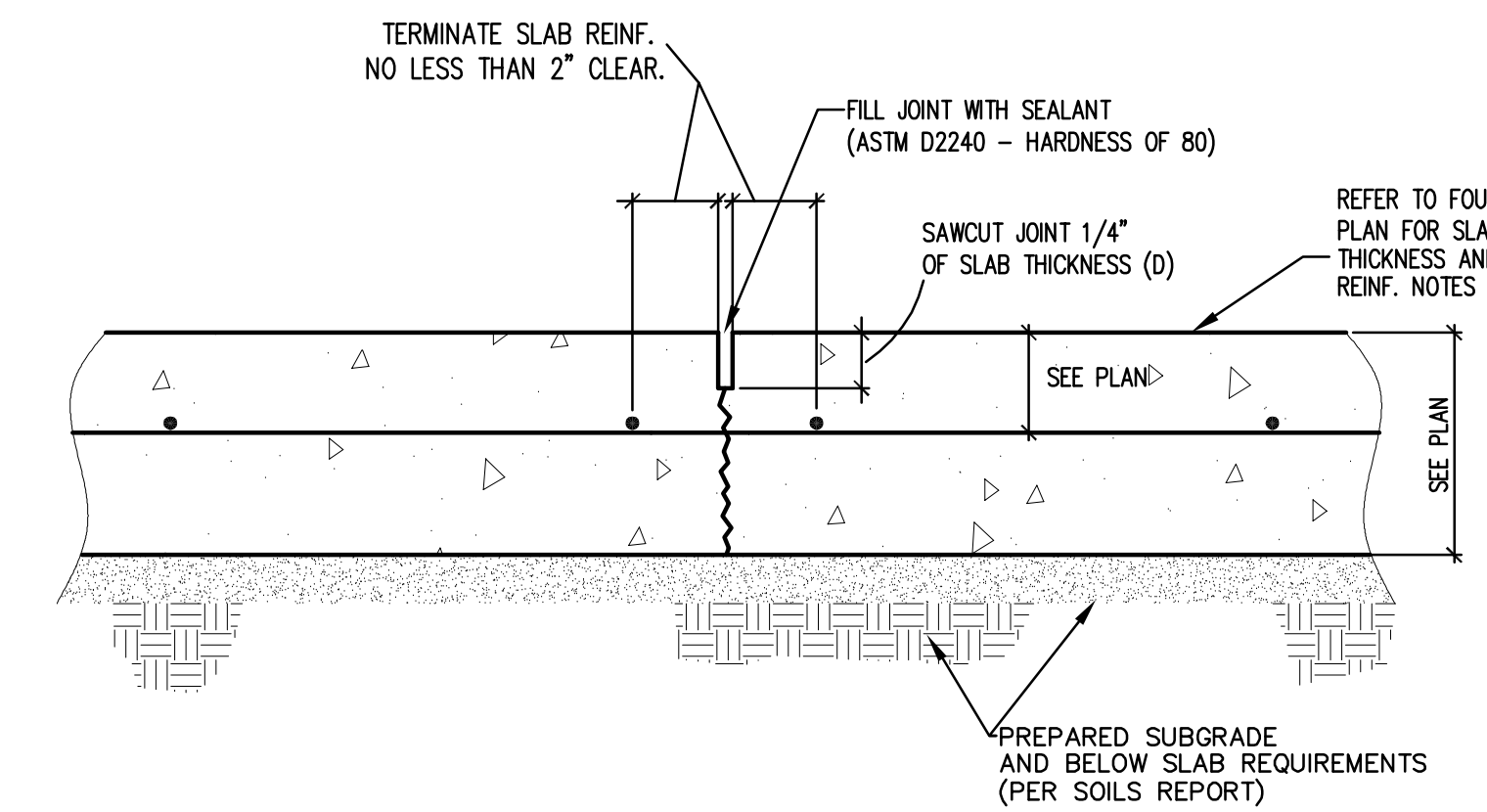
#### POPOUTS

A POPOUT IS A CONICAL FRAGMENT THAT BREAKS OUT OF A CONCRETE SURFACE, LEAVING A HOLE. THE HOLE VARIES IN SIZE FROM 5 MM TO 50 MM (1/4 IN TO 2 IN), THOUGH LARGER POPOUTS ARE POSSIBLE. USUALLY, A FRACTURED AGGREGATE PARTICLE IS LOCATED AT THE BOTTOM OF THE HOLE. THE MATCHING PIECE OF THE FRACTURED PARTICLE ADHERES TO THE POINT OF THE POPOUT CONE. POPOUTS ARE CONSIDERED A COSMETIC DETRACTION AND GENERALLY DO NOT AFFECT THE SERVICE LIFE OF THE CONCRETE.

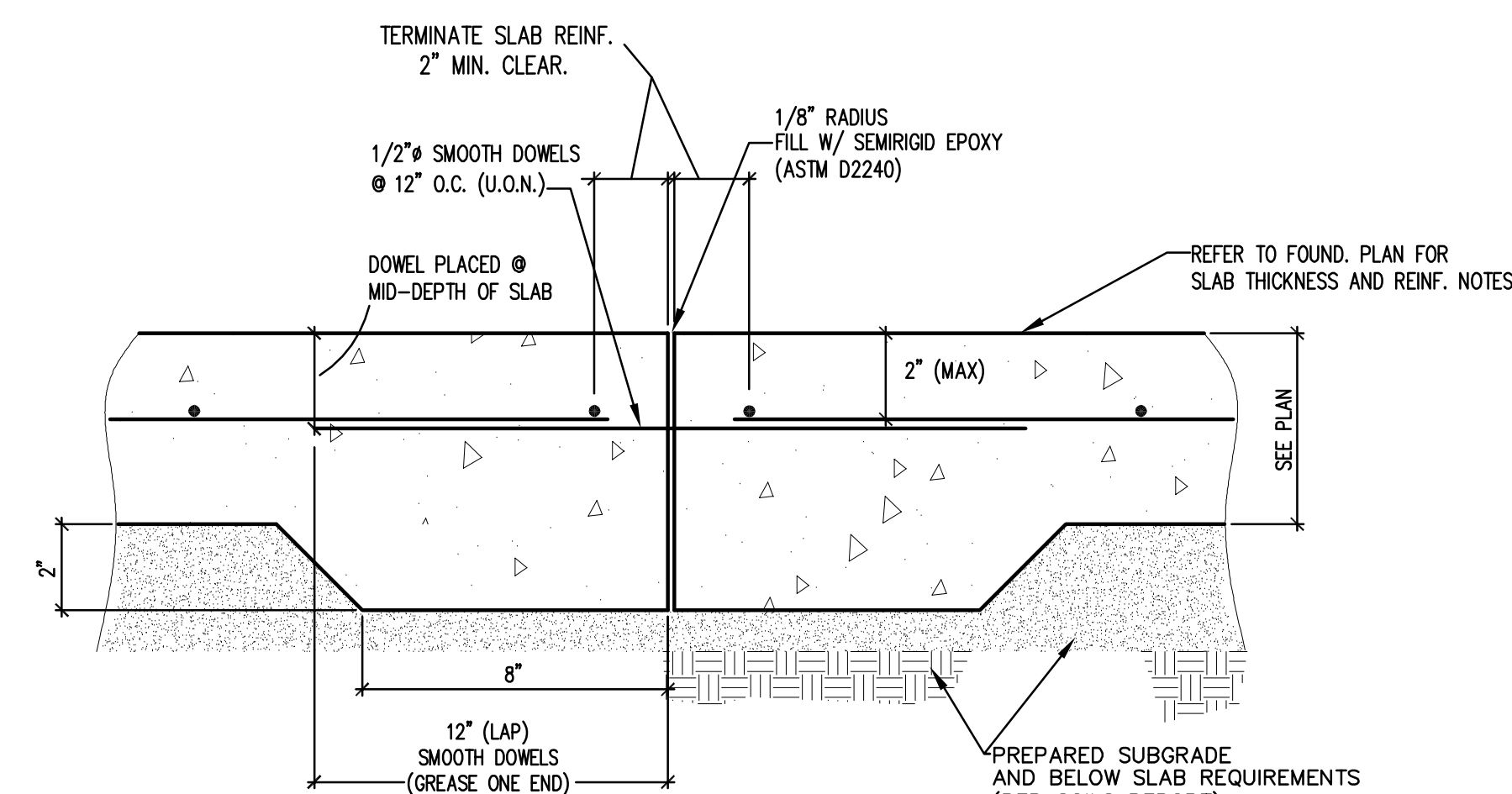


**1 TYPICAL JOINT LAYOUT PLAN**  
(REFER TO CONTROL JOINT PLAN FOR ACTUAL LOCATIONS) NTS

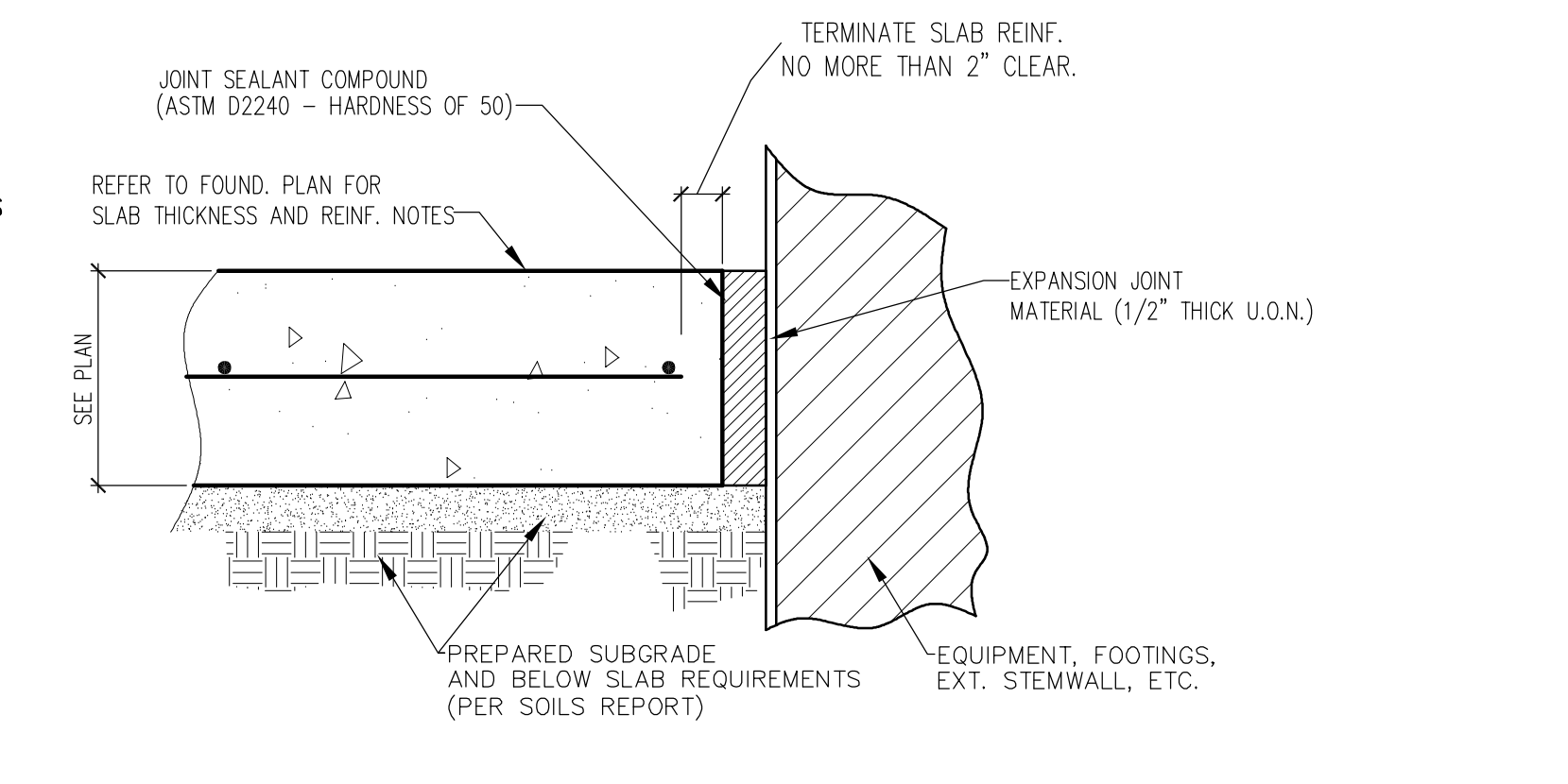
THE CONCRETE SLAB-ON-GRADE FOR THIS PROJECT IS A NON-LOAD BEARING ELEMENT AND THE ONLY DESIGN PARAMETERS USED IS FOR JOINT SPACING AND MINIMUM SHRINKAGE REINFORCEMENT. ALL CONCENTRATED OR UNIFORM LOADS IMPOSED ON THE SLAB-ON-GRADE HAVE DESIGNED FOOTINGS FOR THESE SITUATIONS.



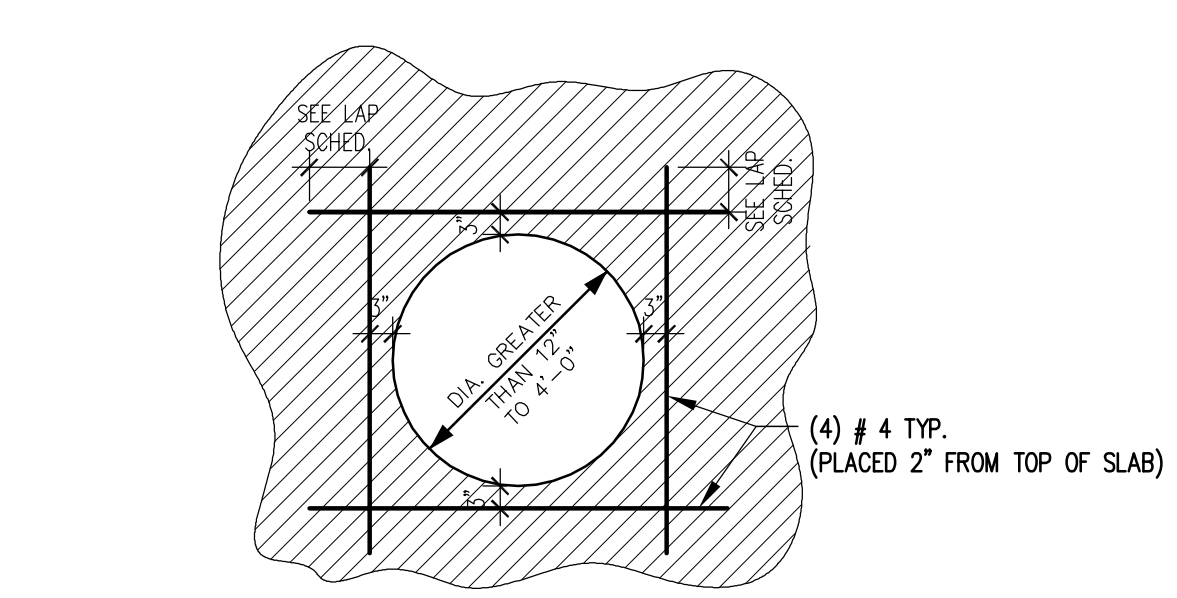
**2 CONTROL / CONTRACTION JOINT SECTION** NTS



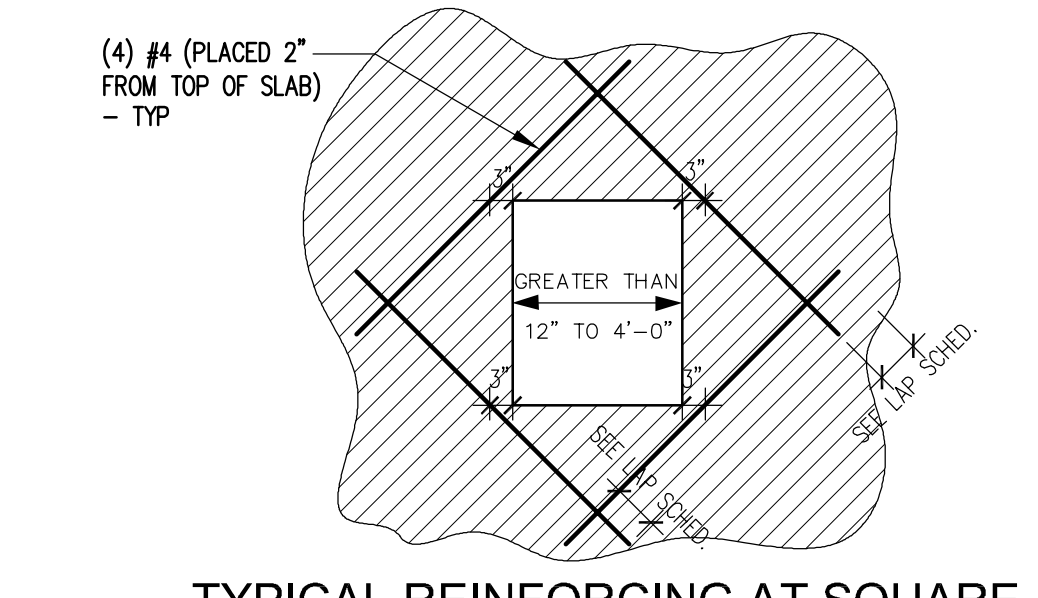
**1 CONSTRUCTION JOINT SECTION**  
(TO OCCUR @ CONTROL JOINT LOCATION) NTS



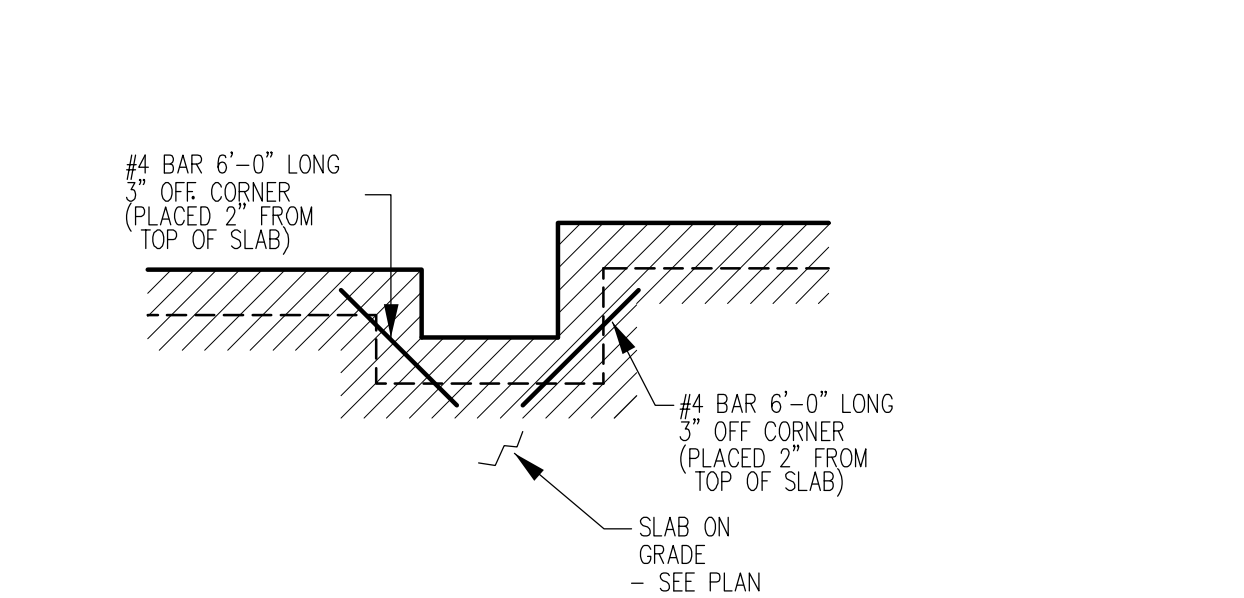
**3 ISOLATION / EXPANSION JOINT SECTION** NTS



**4 TYPICAL REINFORCING AT ROUND OPENINGS AT CONCRETE SLAB-ON-GRADE** NTS



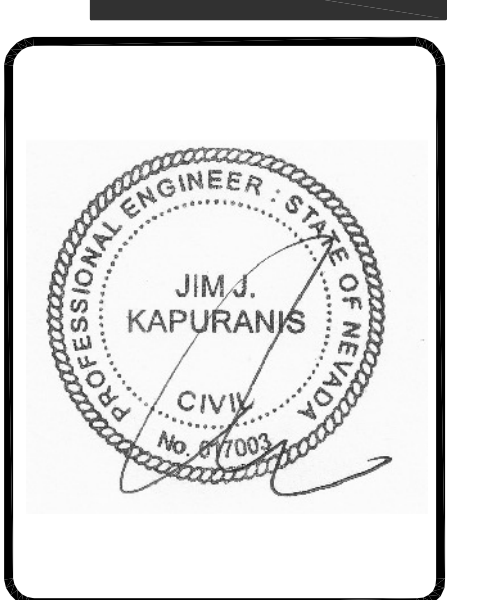
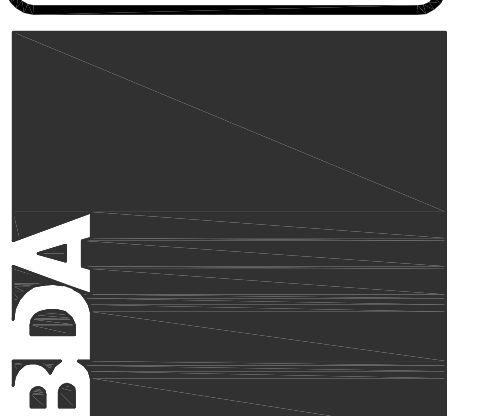
**4A TYPICAL REINFORCING AT SQUARE OR RECTANGULAR OPENINGS AT CONCRETE SLAB-ON-GRADE** NTS



**5 TYPICAL REINFORCING @ RE-ENTRANT CORNERS** NTS

401 Lamberton Pl. #E 007  
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CONCRETE SLAB ON GRADE REQUIREMENTS		COMMENTS	
REV.#	DATE	BY	CHK

REVIEWS	
INITIALS	BDA DSGN. REV.
	BDA TECH. REV.

CCAS  
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 DRAWN:  
 DATE: 2/10/15  
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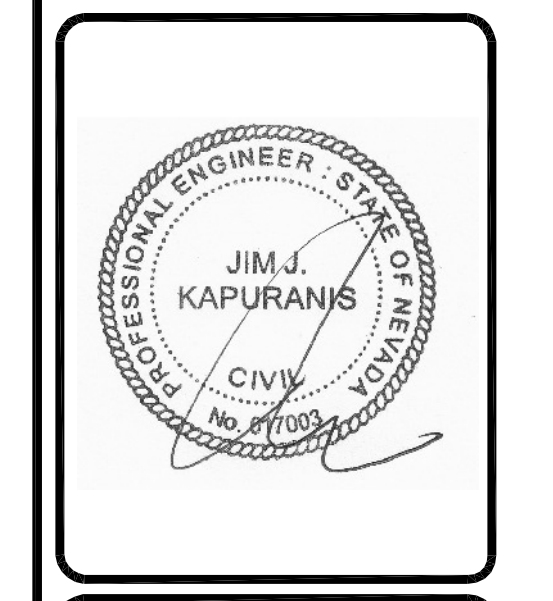
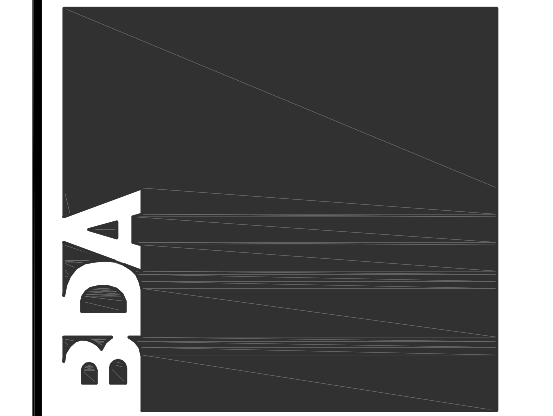
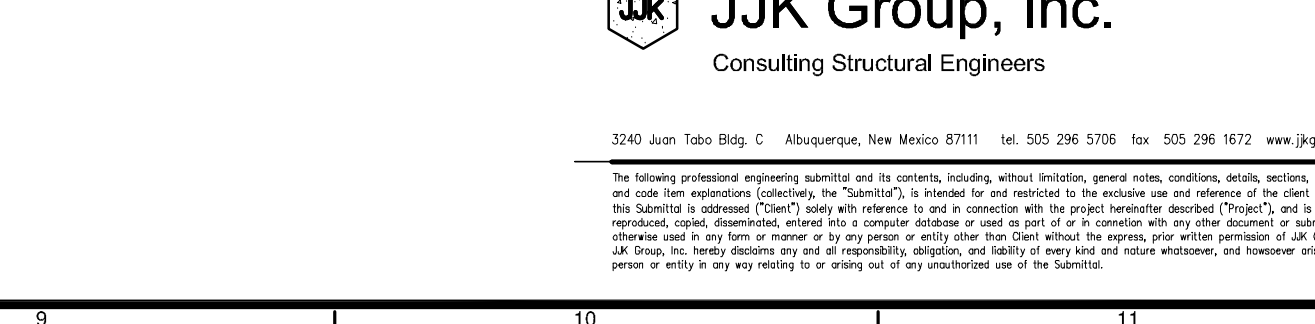
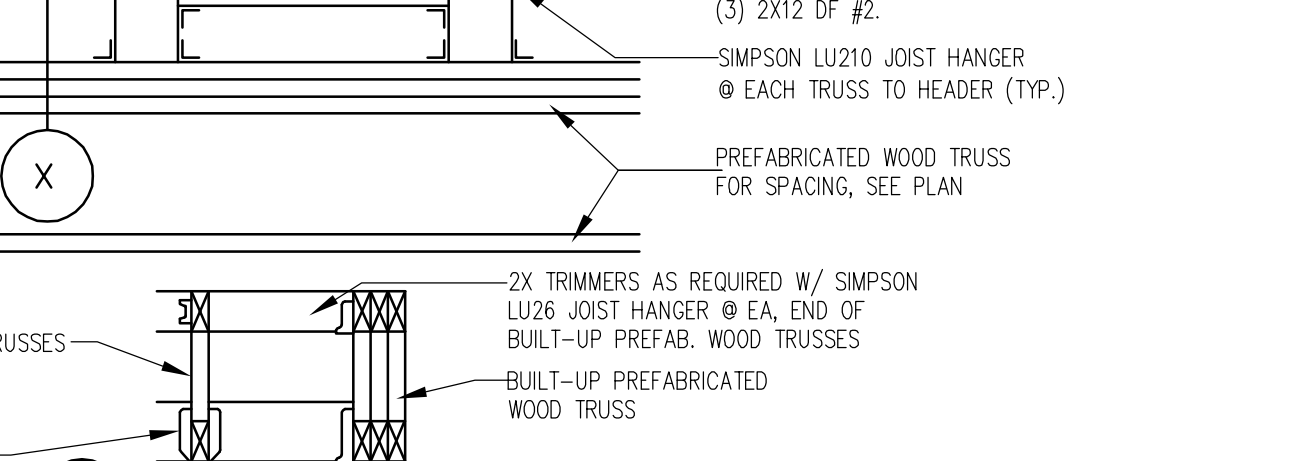
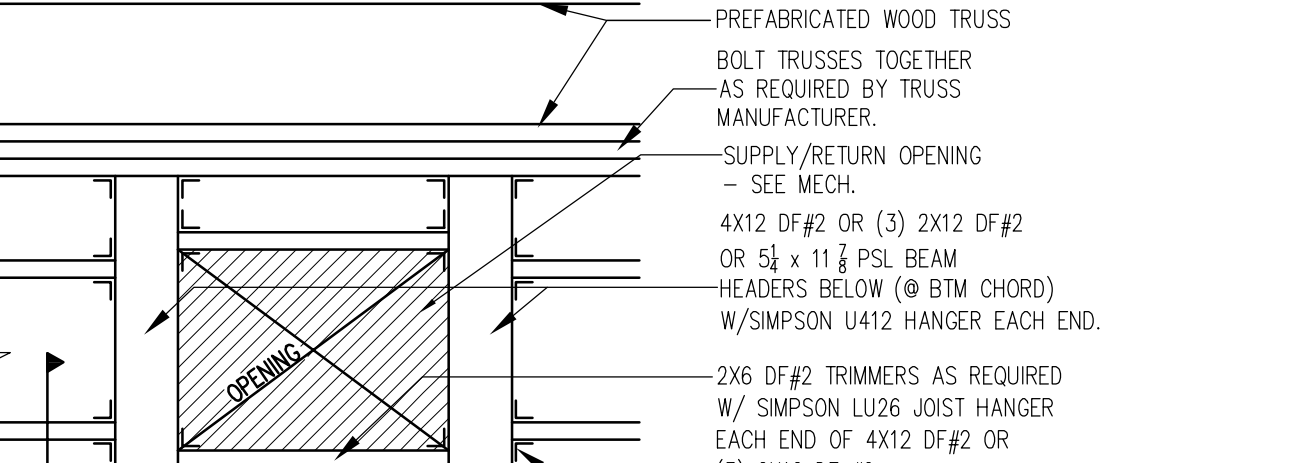
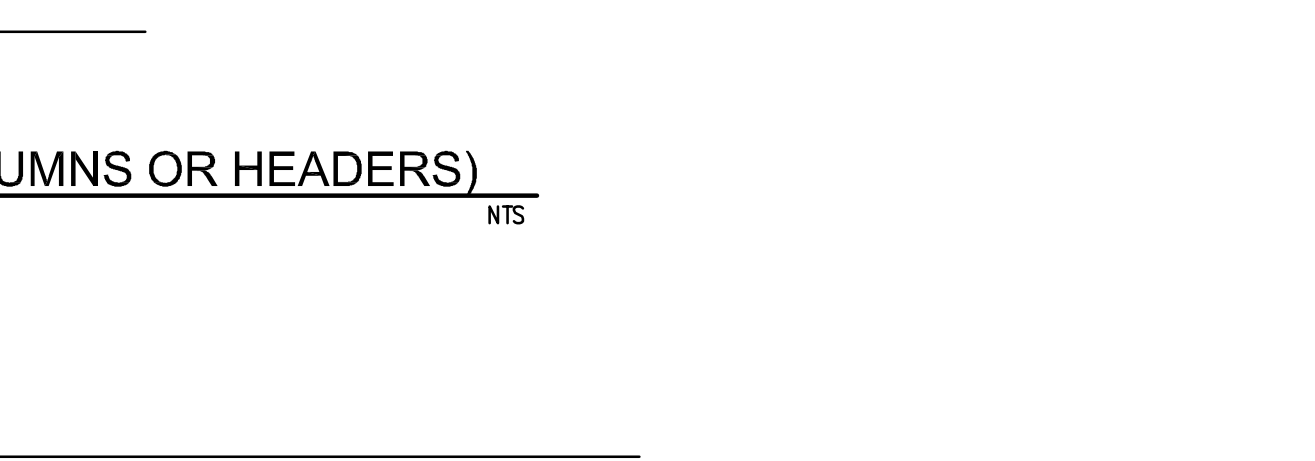
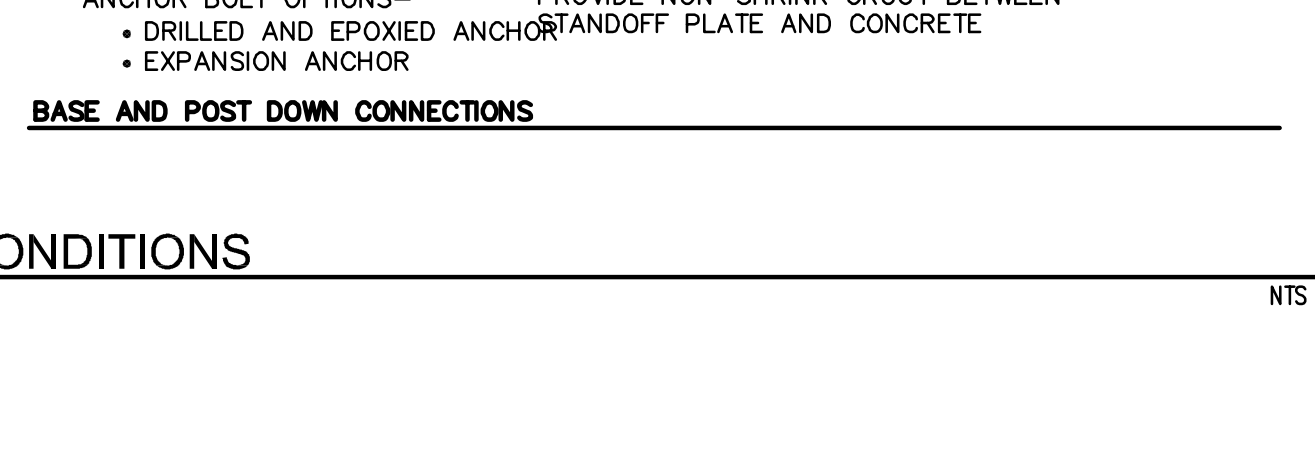
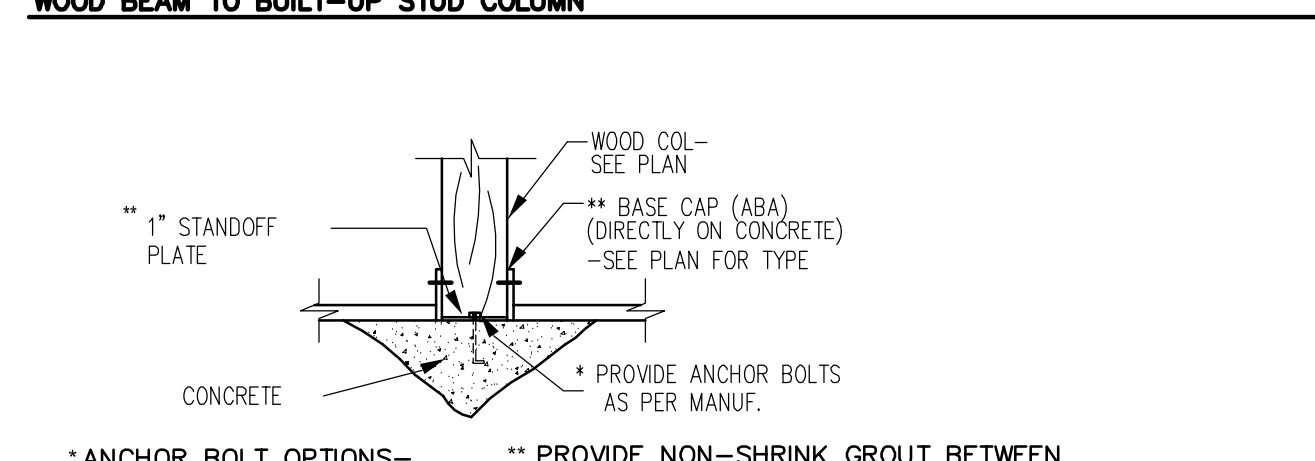
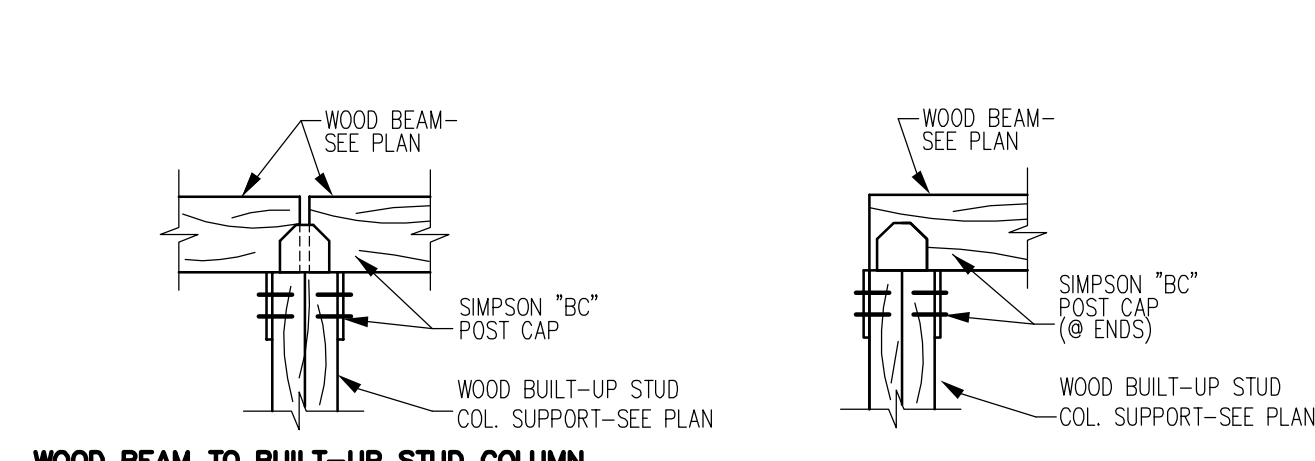
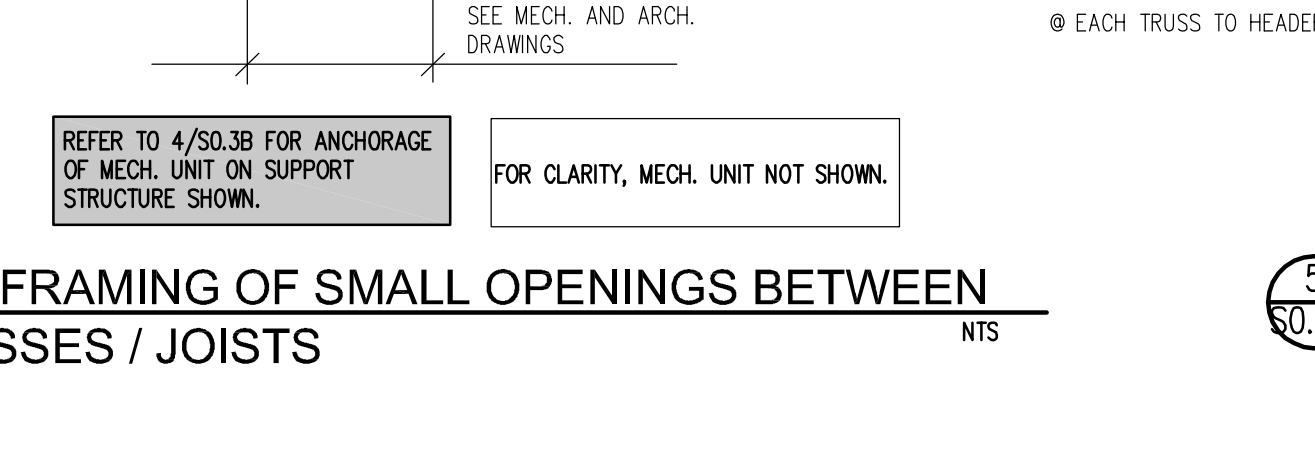
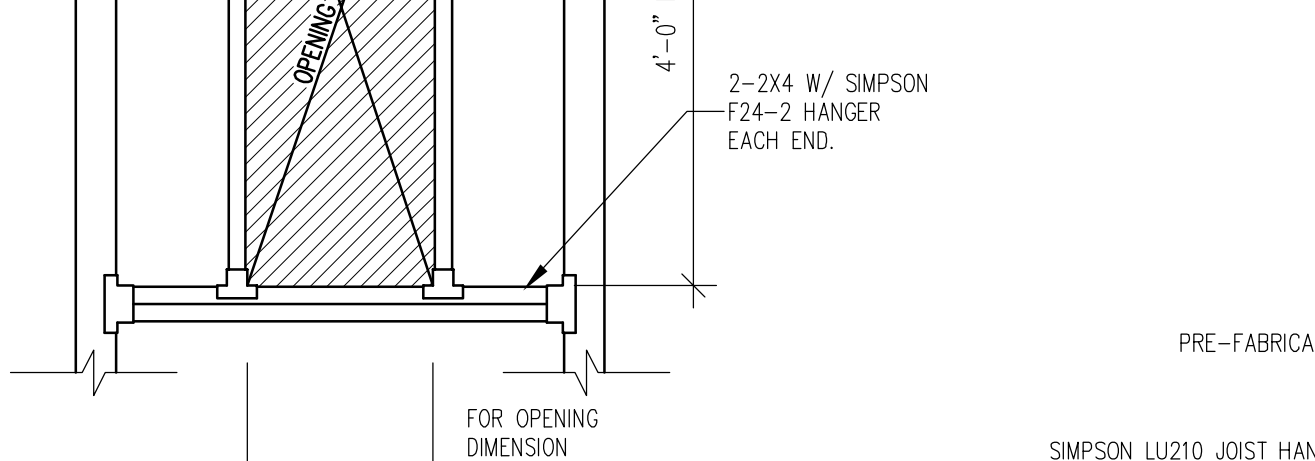
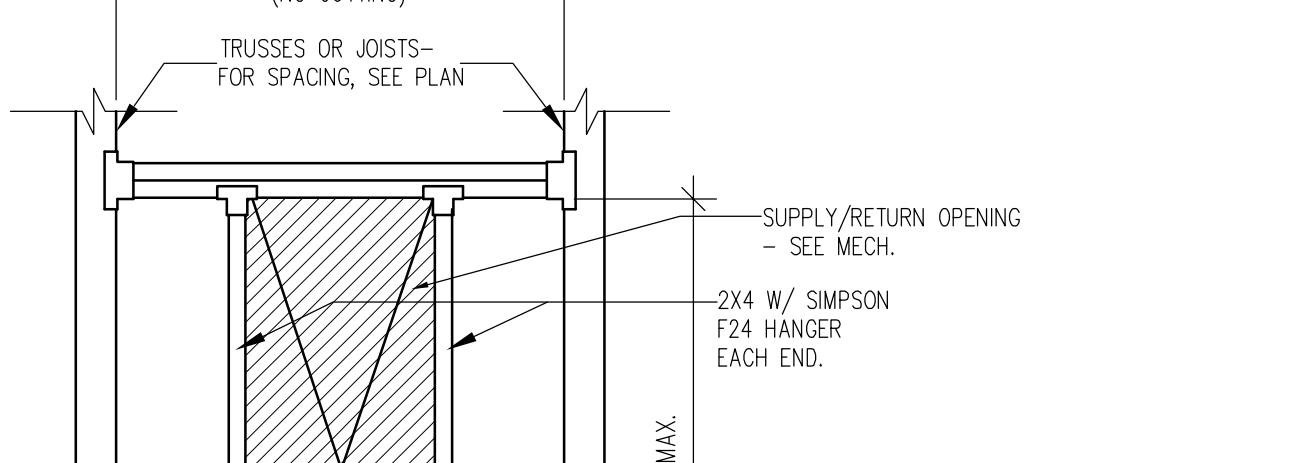
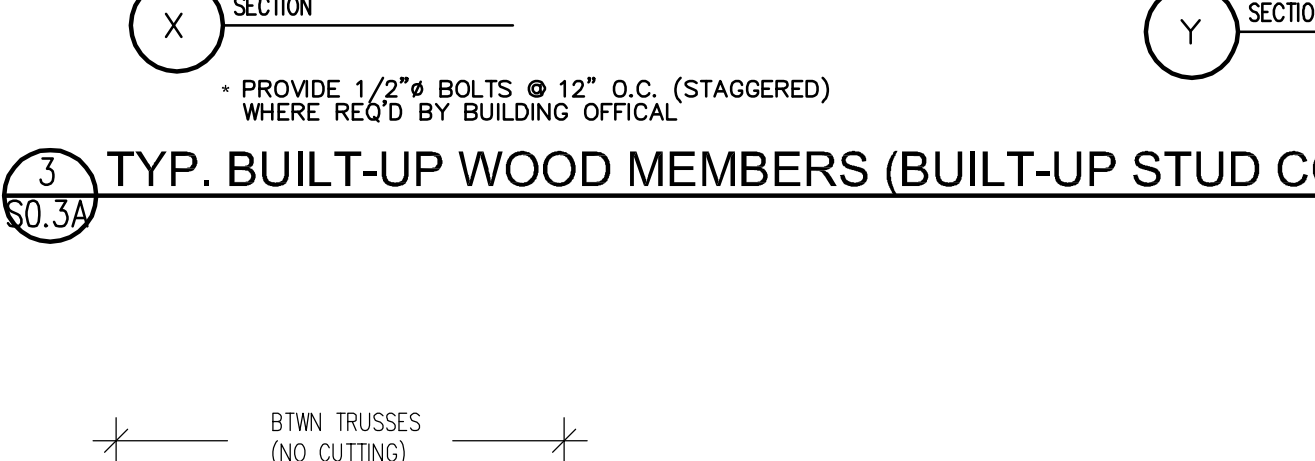
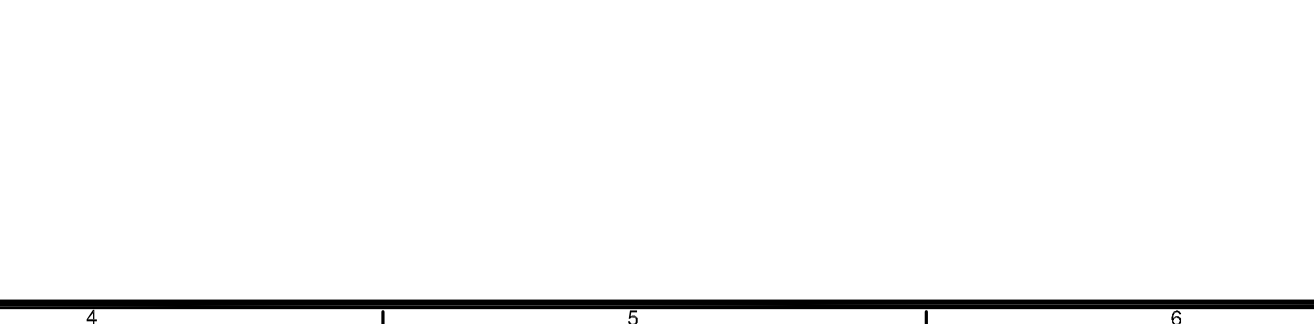
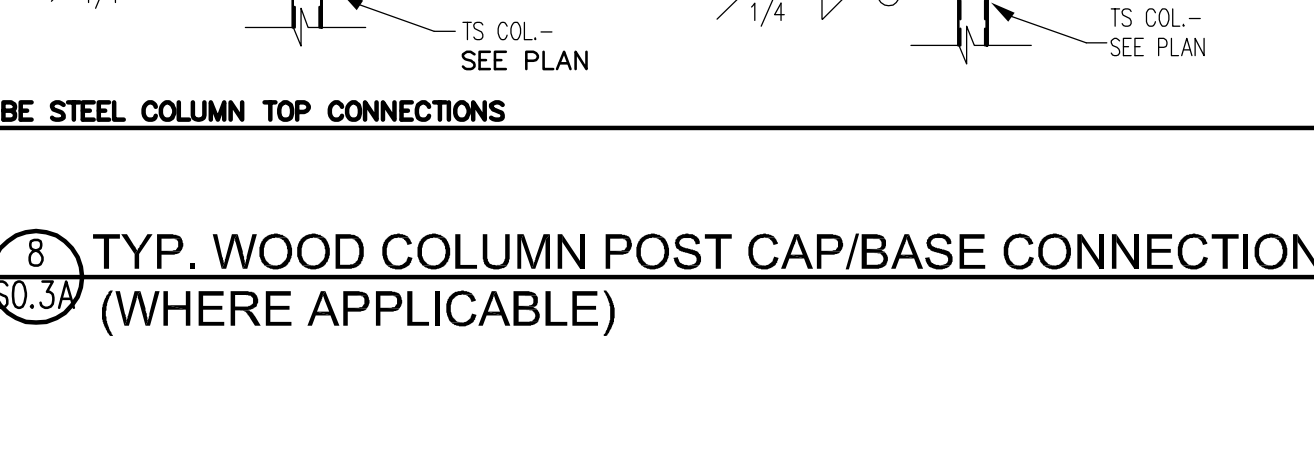
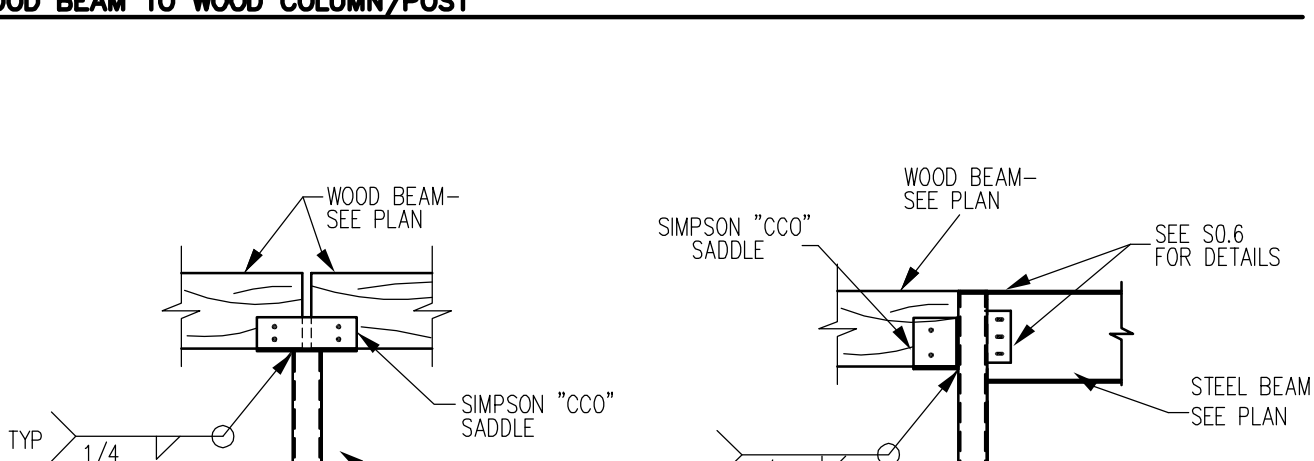
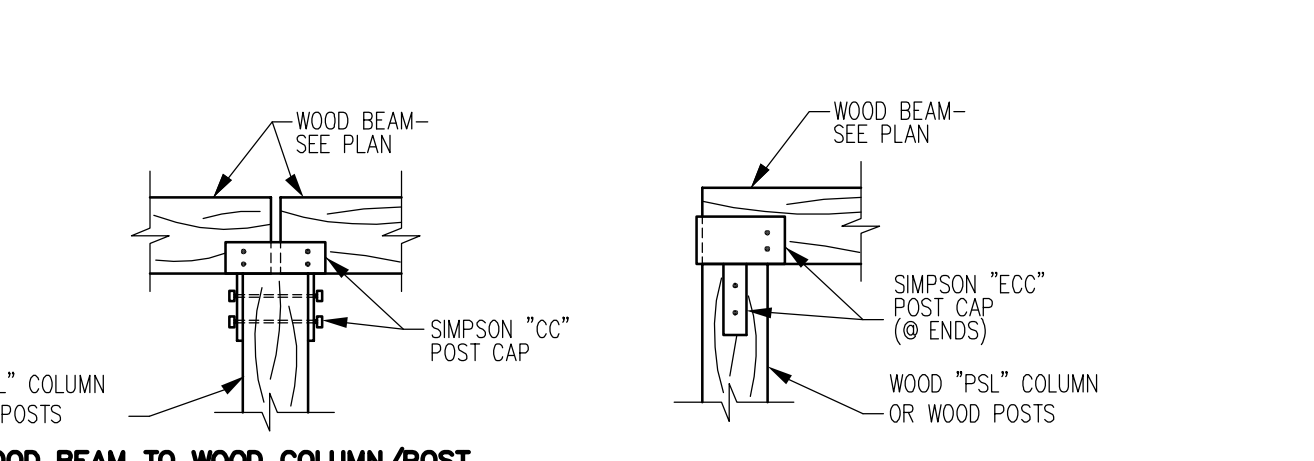
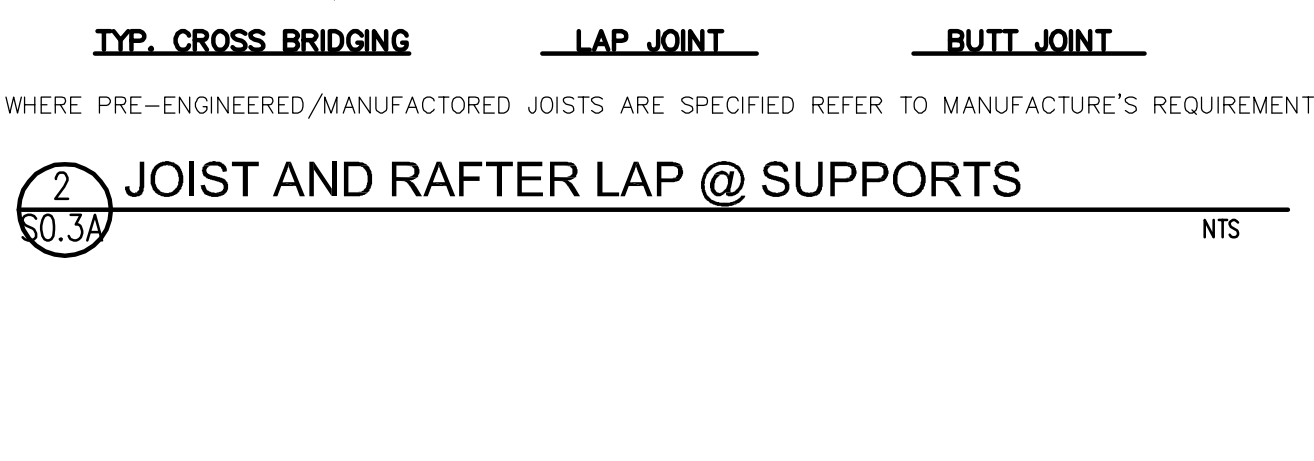
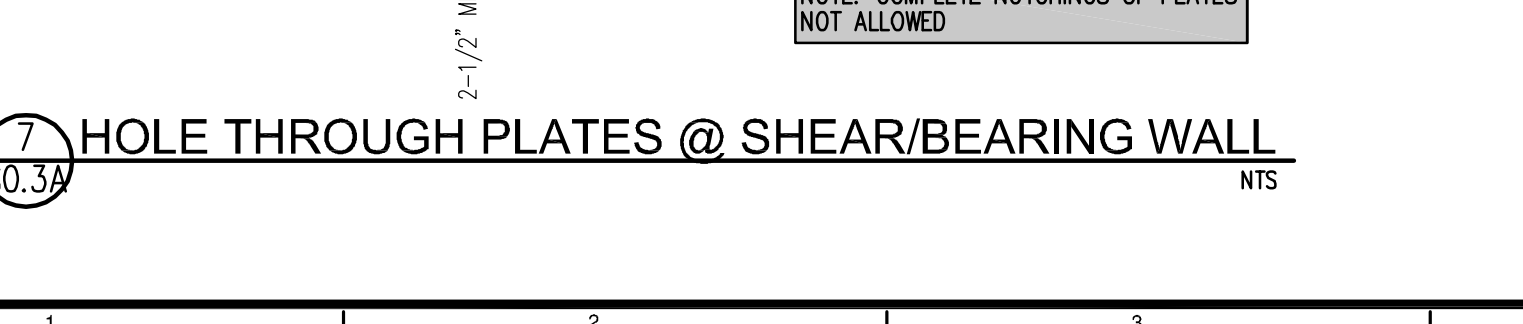
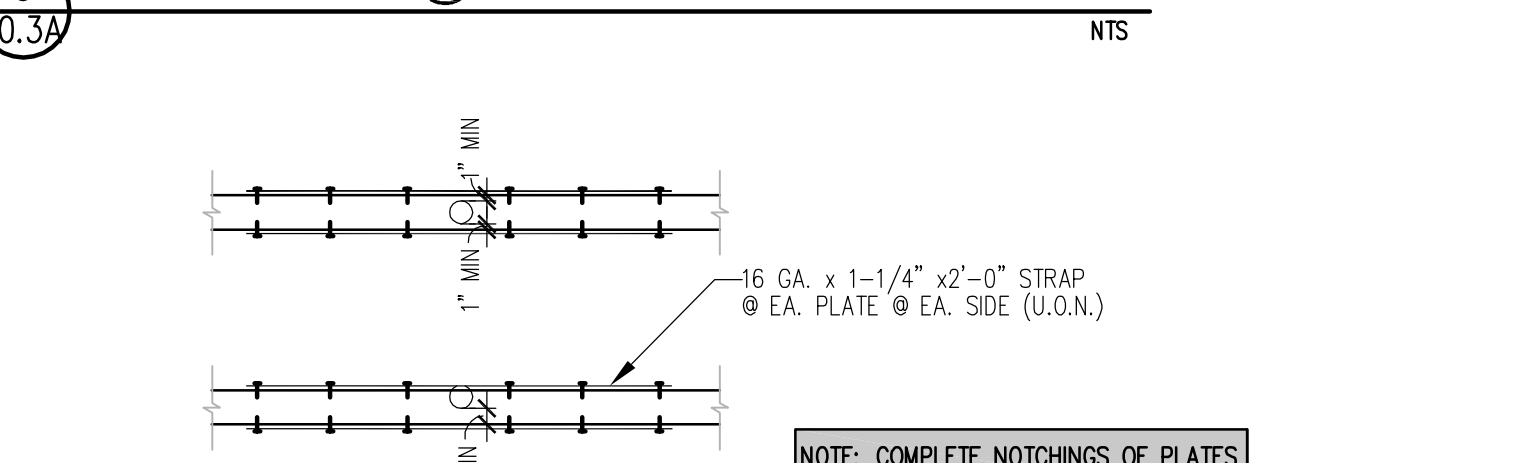
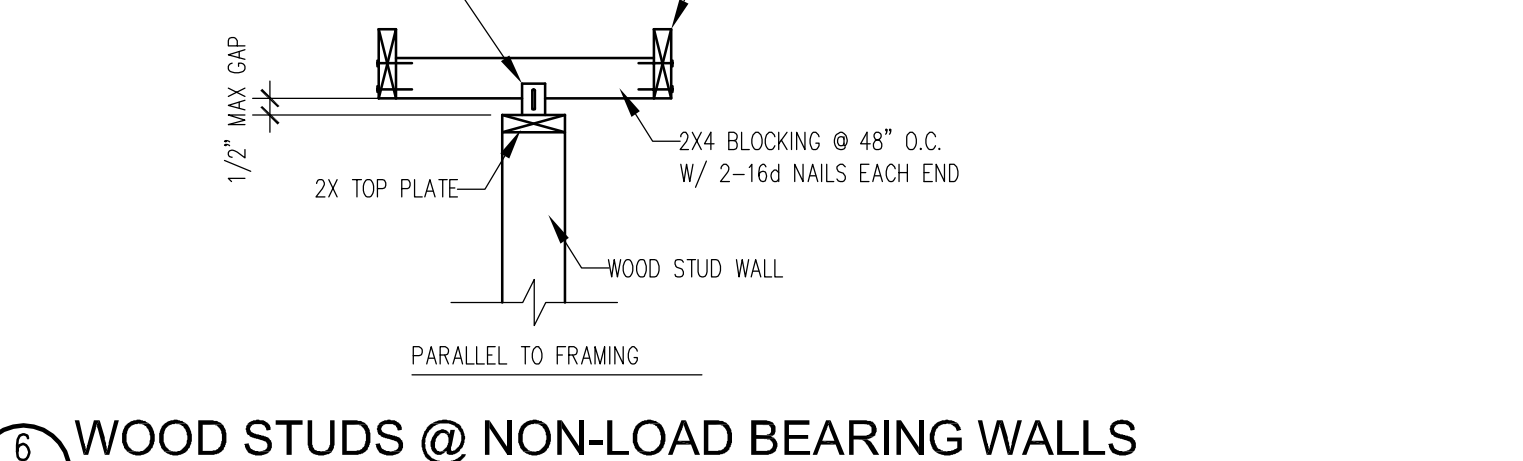
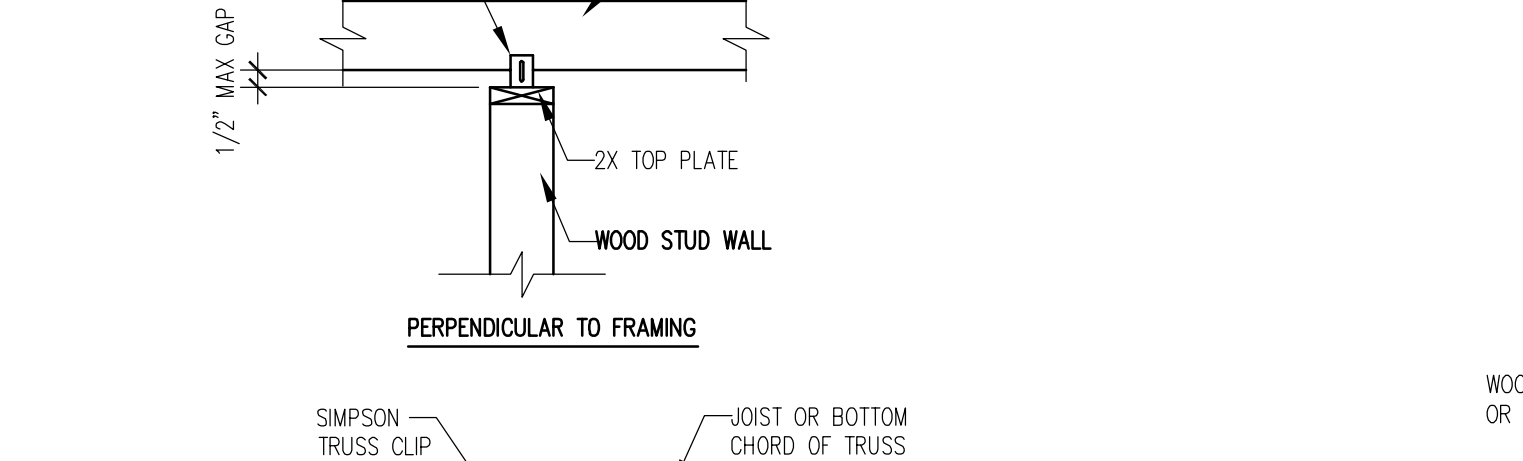
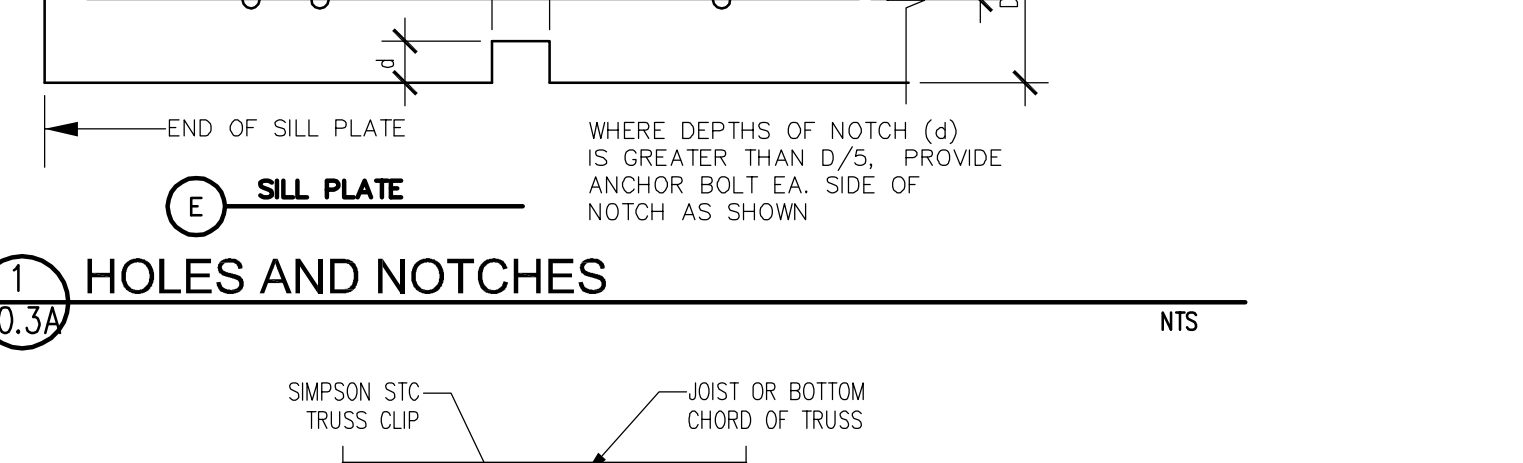
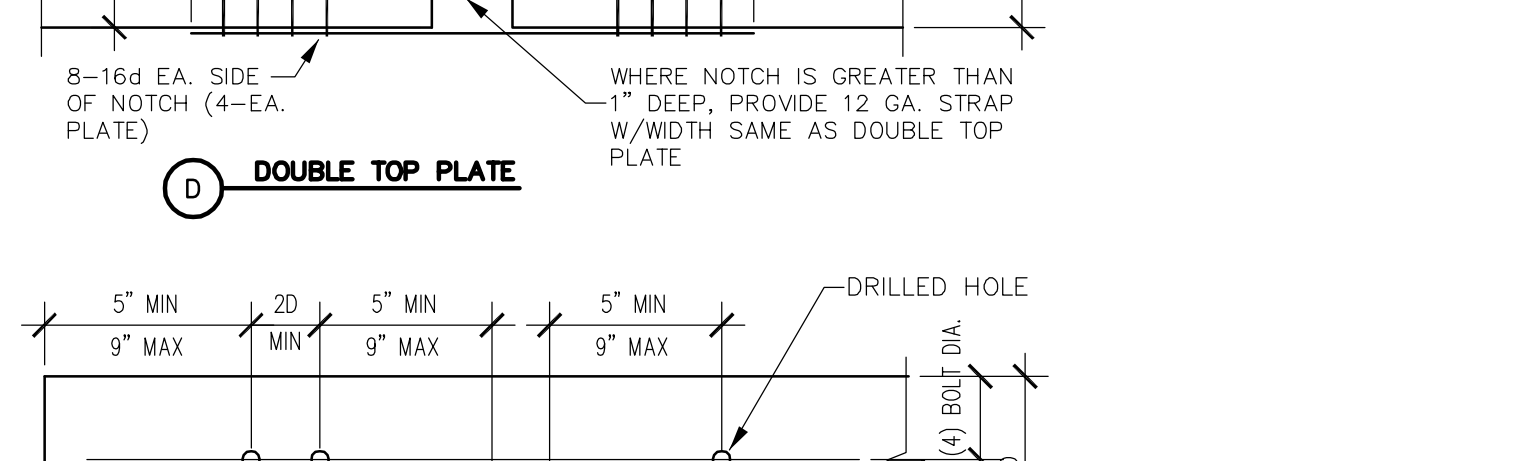
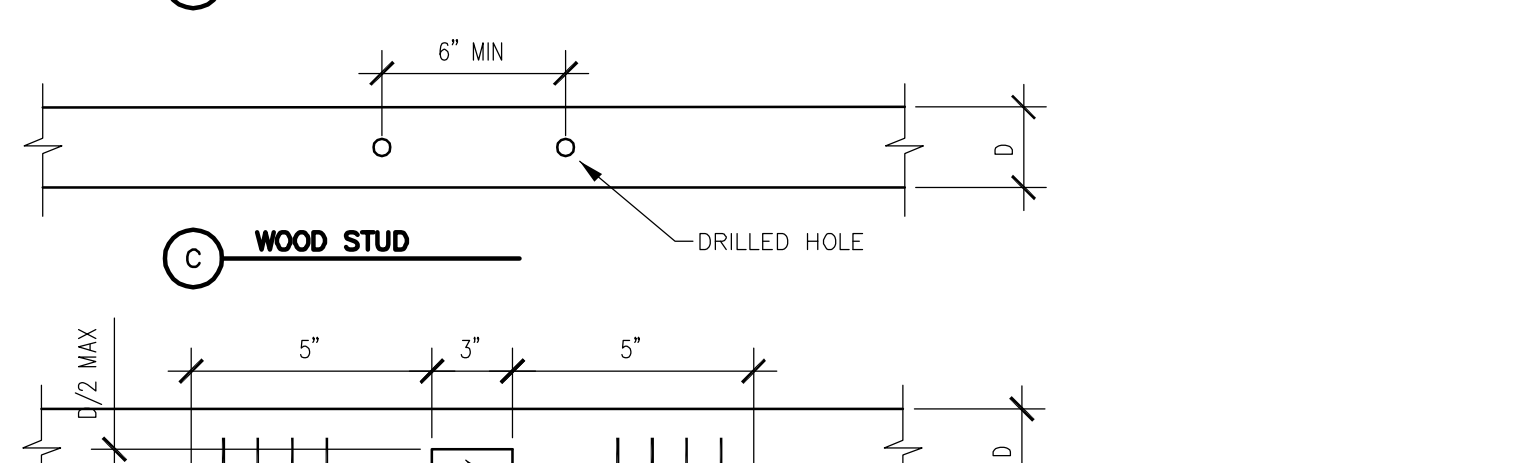
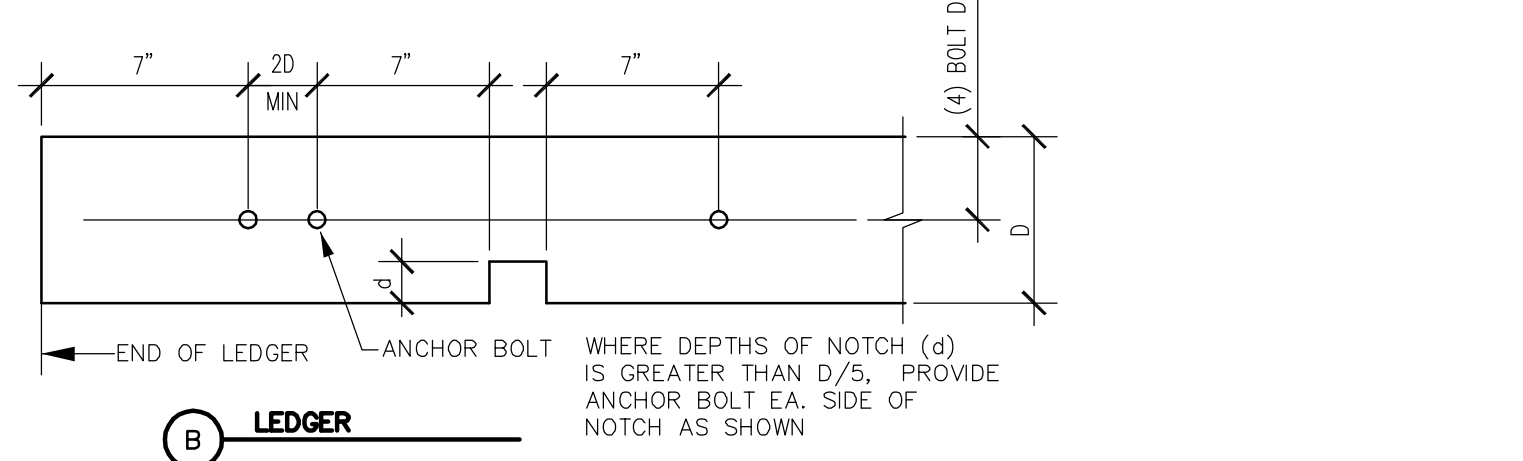
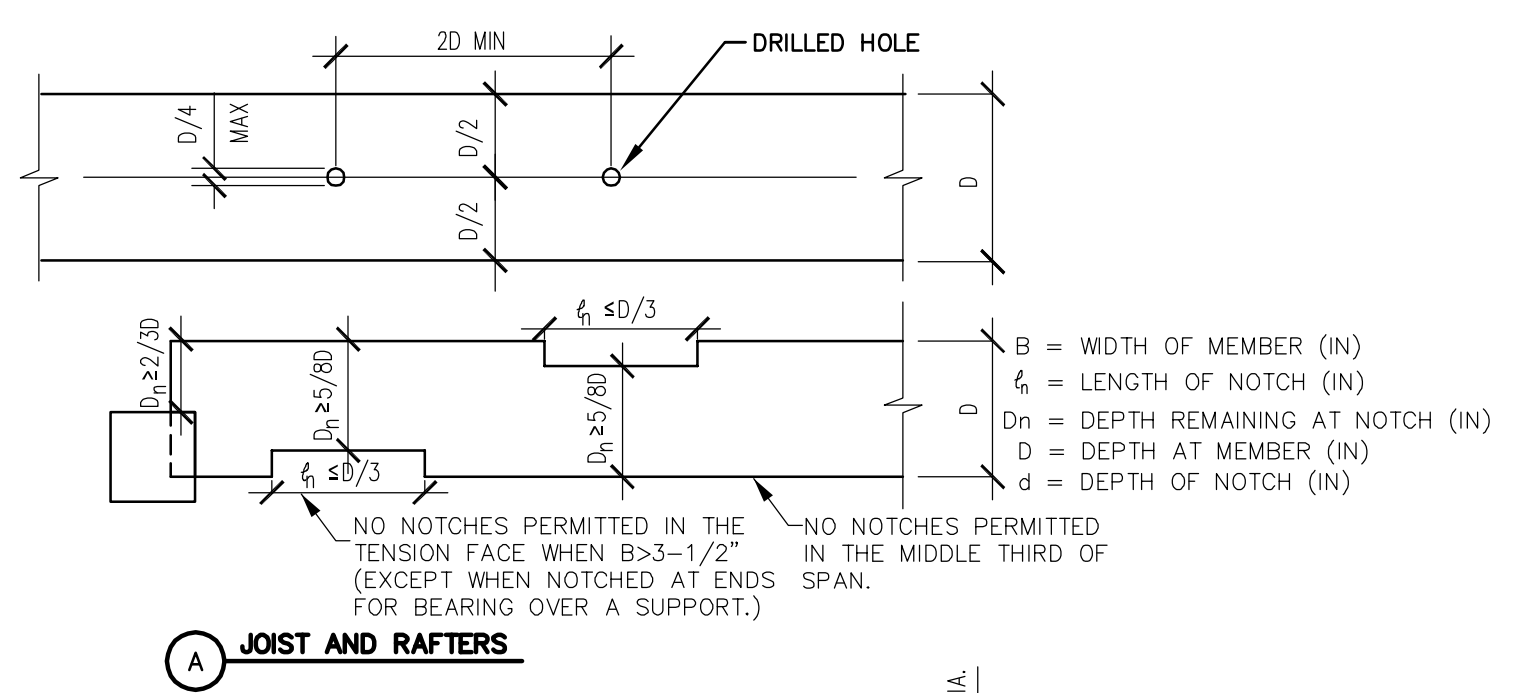


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REVISION:				

REVIEWS	
INITIALS	BDA DSGN. REV.
	BDA TECH REV.

CCAS  
PROJECT NO: 1107  
DRAWN:  
DATE: 2/10/15

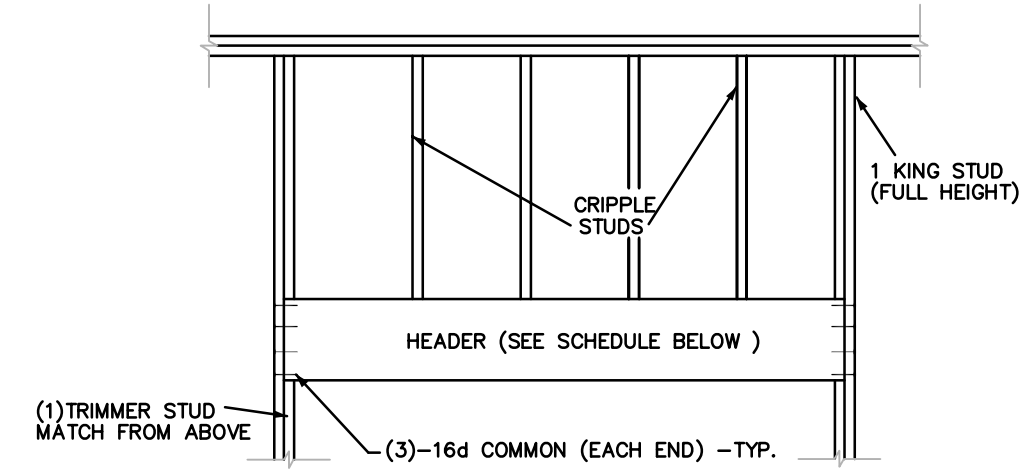
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Consulting Structural Engineers

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HEADER SCHEDULE	
OPENING SIZE	HEADER SIZE
0'-4"	(2)-2X FLAT
4'-1" - 8'-0"	(2)-2X8
8'-1" - 12'-0"	(2)-2X12 HF#2

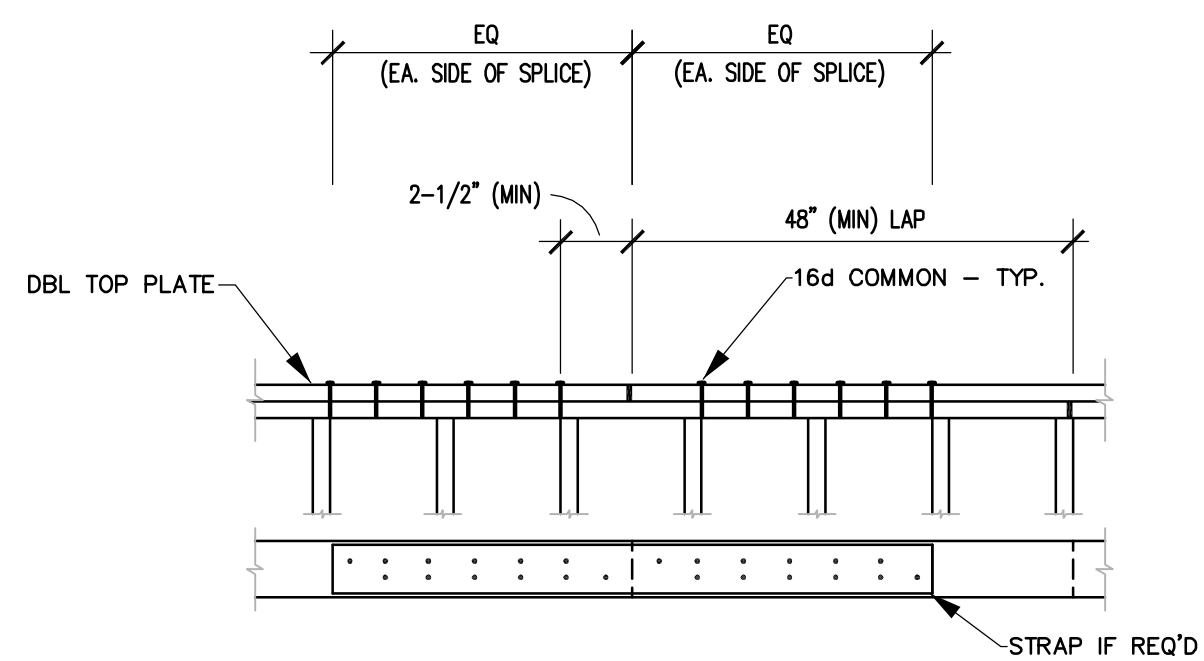
(DF#2, HF#2, OR SPF#2 MAY BE USED)

1 TYP. NON-LOAD BEARING HEADER NTS

TYPICAL CEILING JOIST SCHEDULE				
JOIST SIZE	MAXIMUM SPAN	BRIDGING SPACING	LEDGER AT MASONRY WALL	LEDGER AT STUD WALL
2 X 4	8'-0"	2'-9" O.C.	N/A	2X4 W/ 2-16d NAILS EA. STUD
2 X 8	14'-0"	4'-8" O.C.	N/A	2X8 W/ 3-16d NAILS EA. STUD
2 X 10	18'-0"	6'-0" O.C.	N/A	2X10 W/ 3-16d NAILS EA. STUD

NOTES:  
 1. SPACE CEILING JOISTS @ 24" O.C. MAX.  
 2. HANG CEILING JOISTS FROM LEDGERS W/ SIMPSON LU FACE MOUNTED JOIST HANGER.  
 3. PROVIDE CONTINUOUS FLAT 2X4 BRIDGING W/ 1-16d NAIL EACH JOIST AT THE TOP OF THE JOISTS.  
 4. IF JOIST SPANS ARE GREATER THAN THOSE SHOWN ABOVE, NOTIFY THE STRUCTURAL ENGINEER.  
 5. JOISTS ARE DESIGNED FOR 5 PSF DEAD LOAD AND 10 PSF LIVE LOAD. IF ACTUAL LOADS ARE GREATER, NOTIFY THE STRUCTURAL ENGINEER.  
 6. ALL MATERIAL TO BE DF#2 OR SPF#2

2 TYP. CEILING JOIST SCHEDULE NTS



TYPE	16d BTWN BUTTS	STRAP TIE CTR. W/BUTT	CAPACITY (LBS)
A	(2) ROWS - 10 NAILS/ROW - TOTAL/SIDE	N/A	0 <= 7,500
B	(32) 16d/SIDE	CMST-16	7,500 <= 12,000 (MAX)

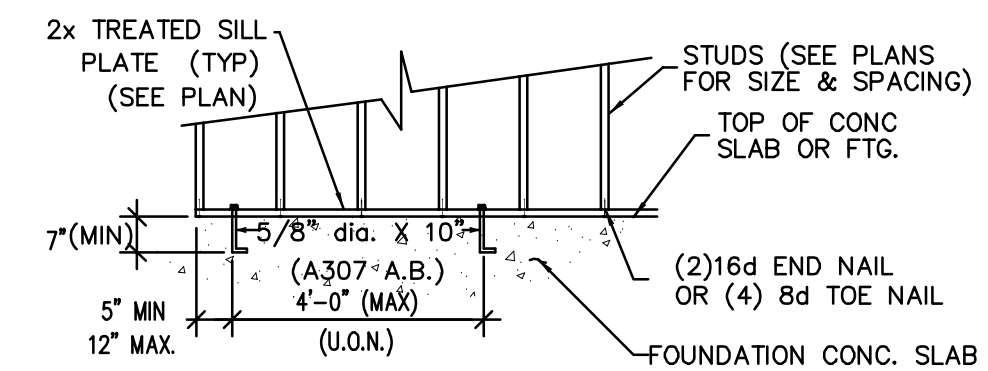
REFER TO FRAMING PLAN GENERAL NOTES FOR TYPE.

NOTES:  
 ALL NAILS TO BE 16d (COMMON)

3 TYP. DOUBLE TOP PLATE SPLICE NTS

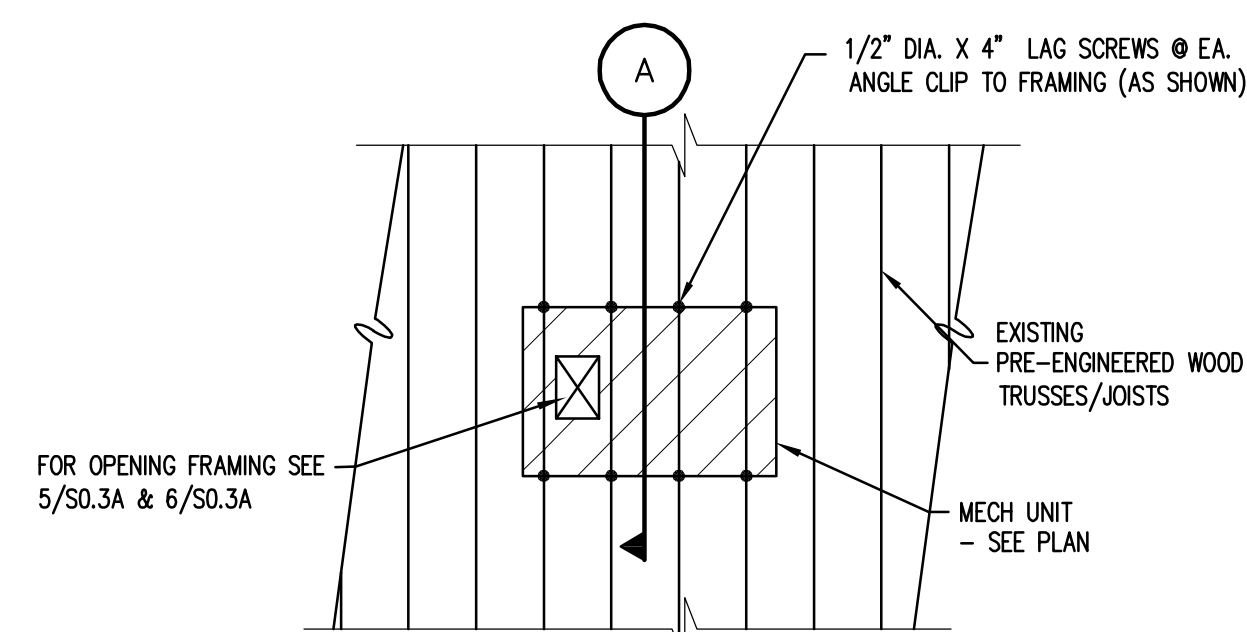
WASHER SCHEDULE			
BOLT	MALLEABLE IRON WASHER	HEAVY PLATE WASHER	STANDARD CUT WASHER
1/2"	2-1/2" X 1/4"	3"X3"X3/16"	1-3/8" X 3/32"
5/8"	2-3/4" X 5/16	3"X3"X1/4"	1-3/4" X 1/8"
3/4"	3" X 7/16"	3"X3"X5/16"	2"X5/32
7/8"	3-1/2" X 7/16"	3"X3"X5/16"	2-1/4"X11/64"
1"	4" X 1/2"	3-1/2"X3-1/2"X5/16"	2-1/4"X11/64"

NOTES:  
 1. USE STANDARD CUT WASHER FOR ALL BOLTS, U.O.N.  
 2. HEAVY PLATE WASHERS ARE REQUIRED @ SILL PLATE TO FOUNDATION AT ALL SHEARWALLS.  
 3. HEAVY PLATE WASHERS ARE REQUIRED @ HOLDOWNS

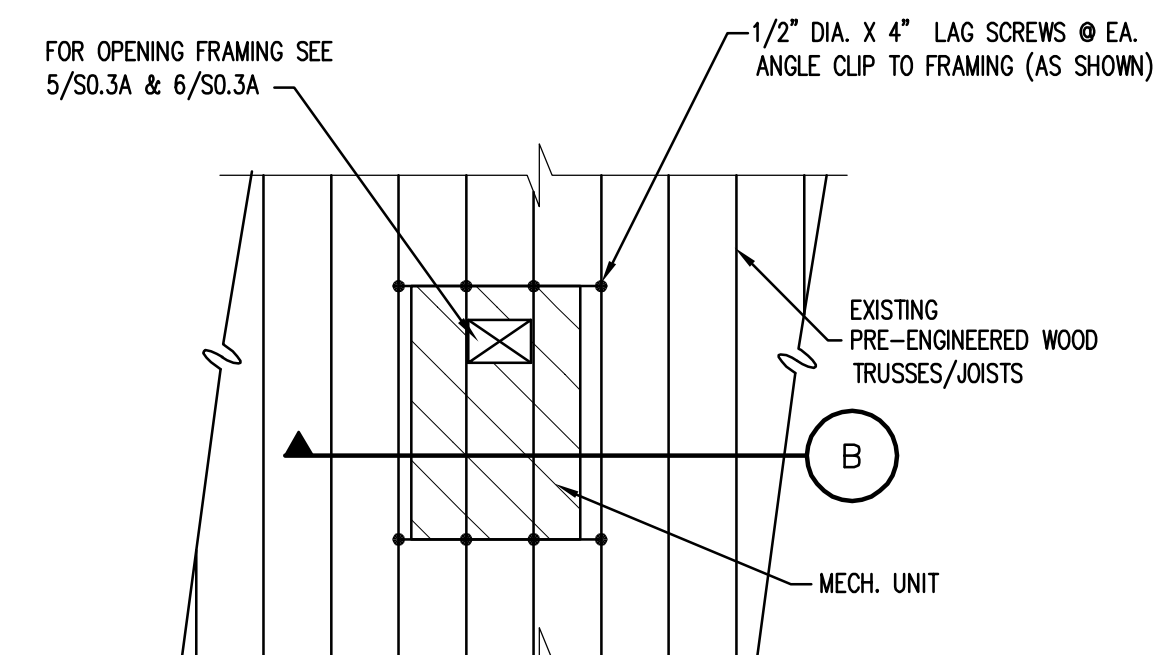


NOTE:  
 1. PROVIDE (2) BOLTS MIN PER SILL PIECE.  
 2. SEE PLANS FOR SIZE AND SPACING OF ANCHOR BOLTS AT SHEARWALLS.  
 3. PROVIDE ANCHOR BOLTS AT ALL PERIMETER WALLS AND SHEARWALLS.  
 4. PROVIDE WASHERS @EA. ANCHOR BOLT. - SEE SCHEDULE THIS SHEET

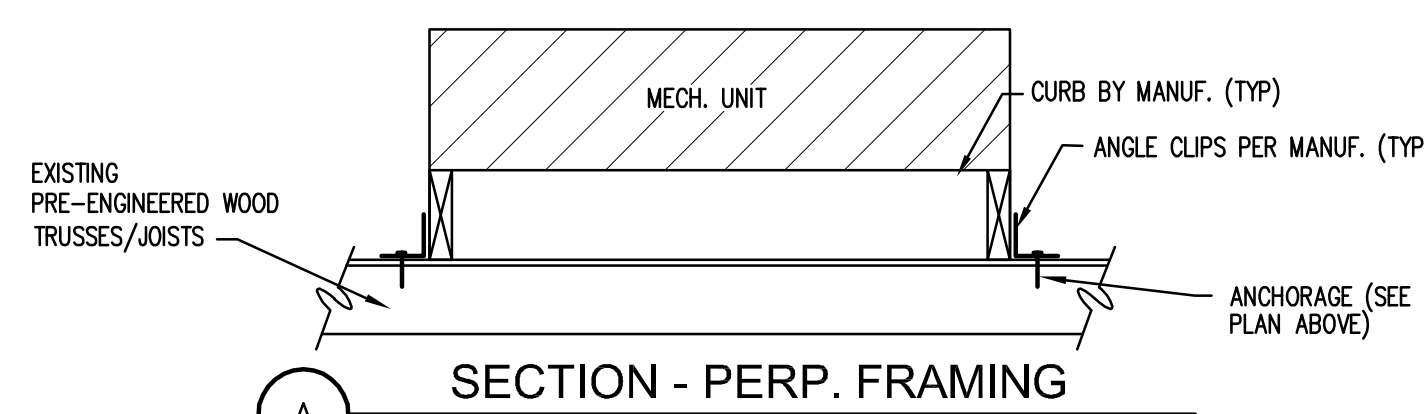
4 WASHER SCHEDULE NTS



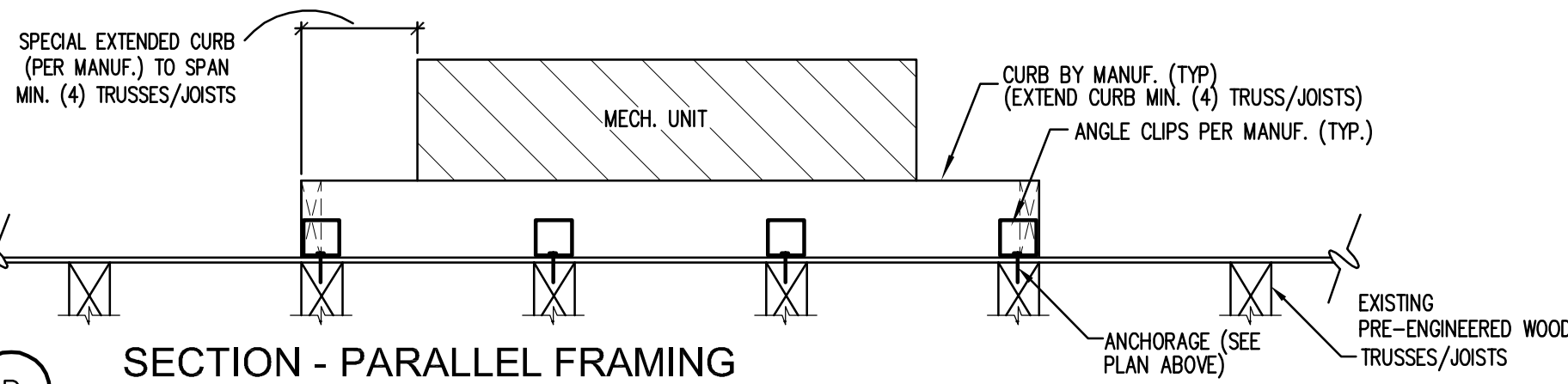
PLAN - PERP. FRAMING



PLAN - PARALLEL FRAMING



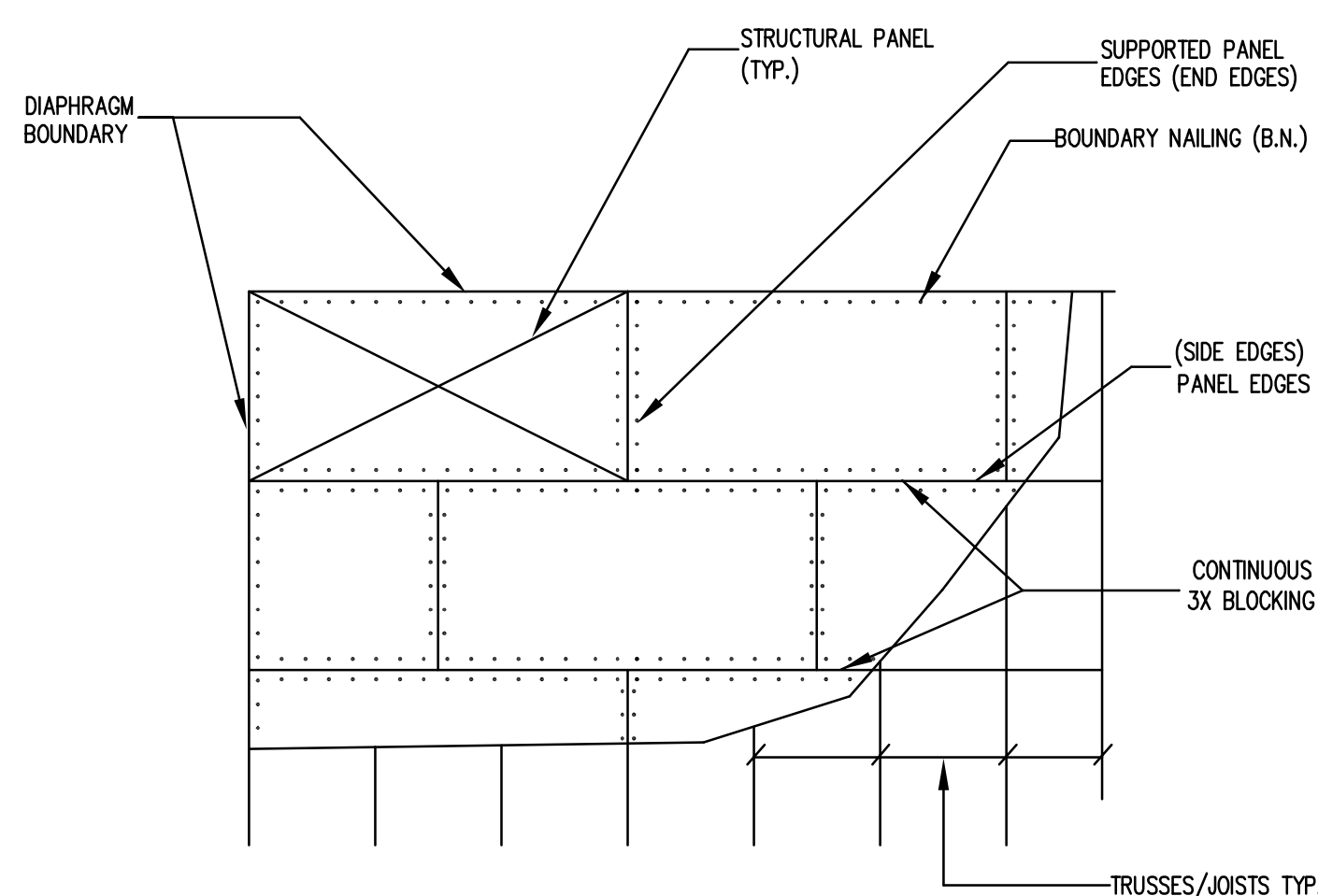
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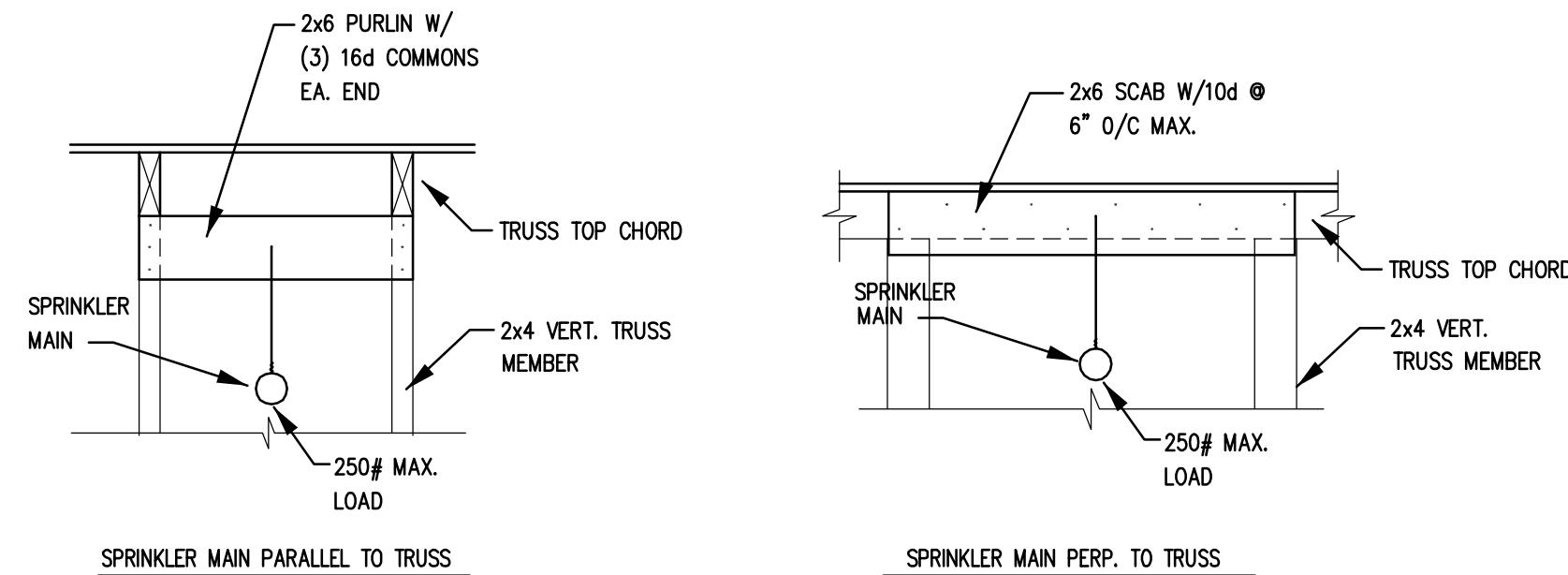
SECTION - PARALLEL FRAMING

5 MECH. EQUIP. SUPPORT / ANCHORAGE NTS

6 TYP. UNBLOCKED DIAPHRAGM \*\*\*\*\*PLYWOOD CLIPS ACCEPTABLE AT EDGES\*\*\*\*\* NTS



7 BLOCKED DIAPHRAGM - SEE SHEARWALL PLAN WHERE OCCURS NTS

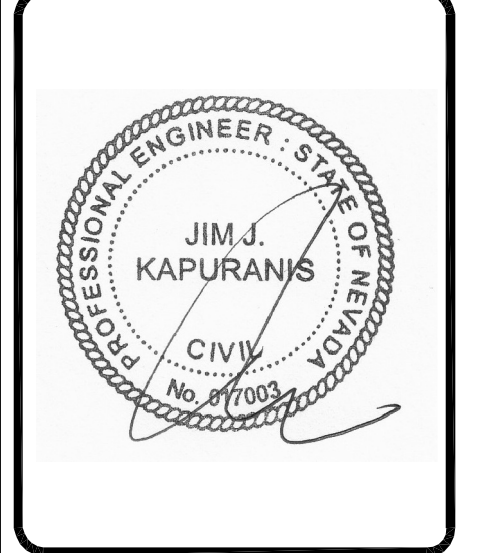
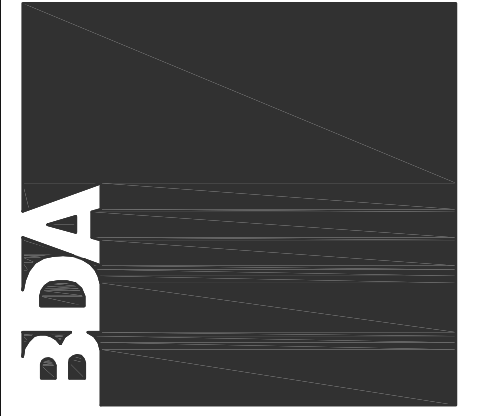


8 SPRINKLER MAIN SUPPORT DETAILS

T&G OR PLYWOOD CLIPS ARE NOT A SUBSTITUTION FOR BLOCKED DIAPHRAGM.

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REVIEWS	
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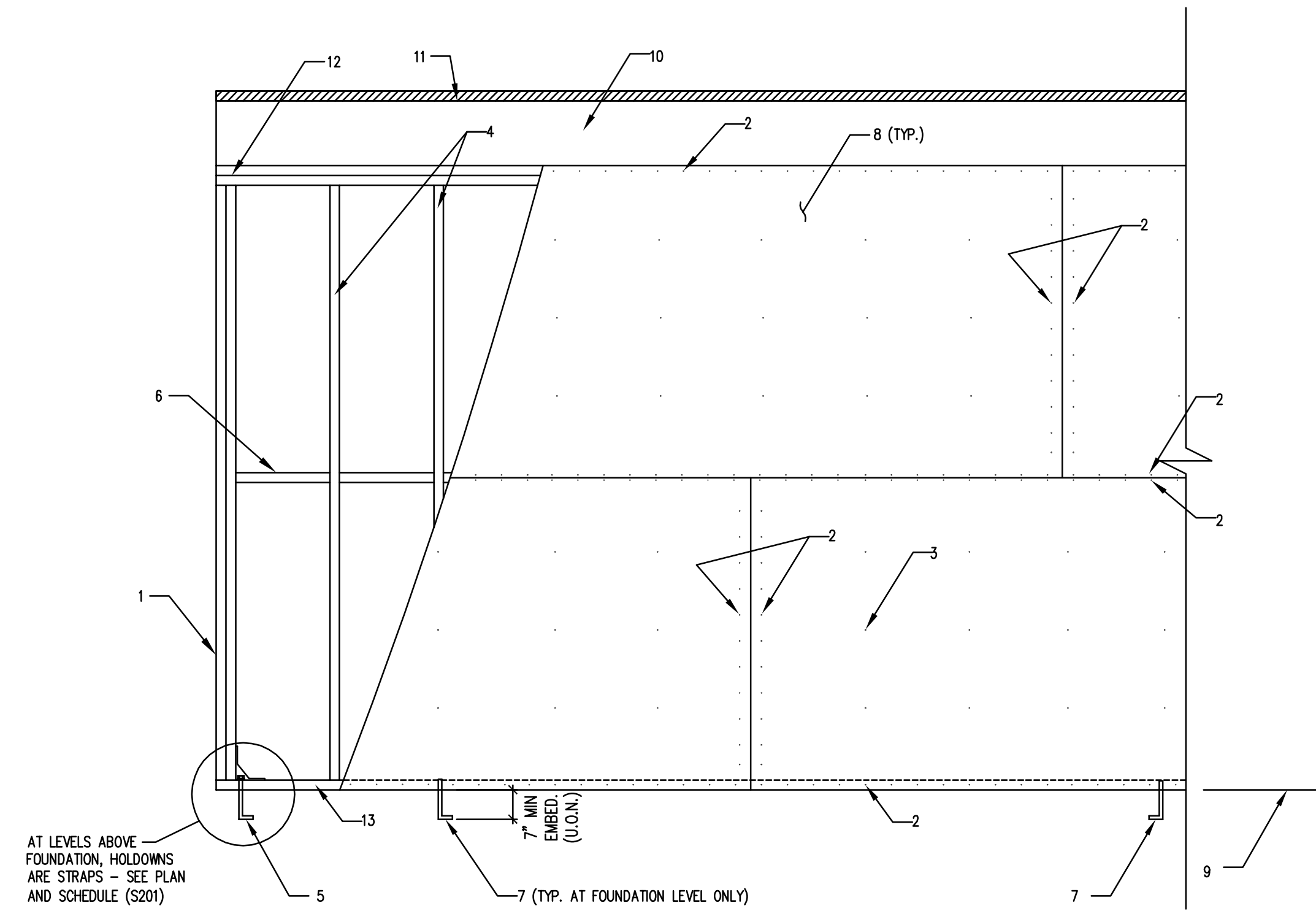
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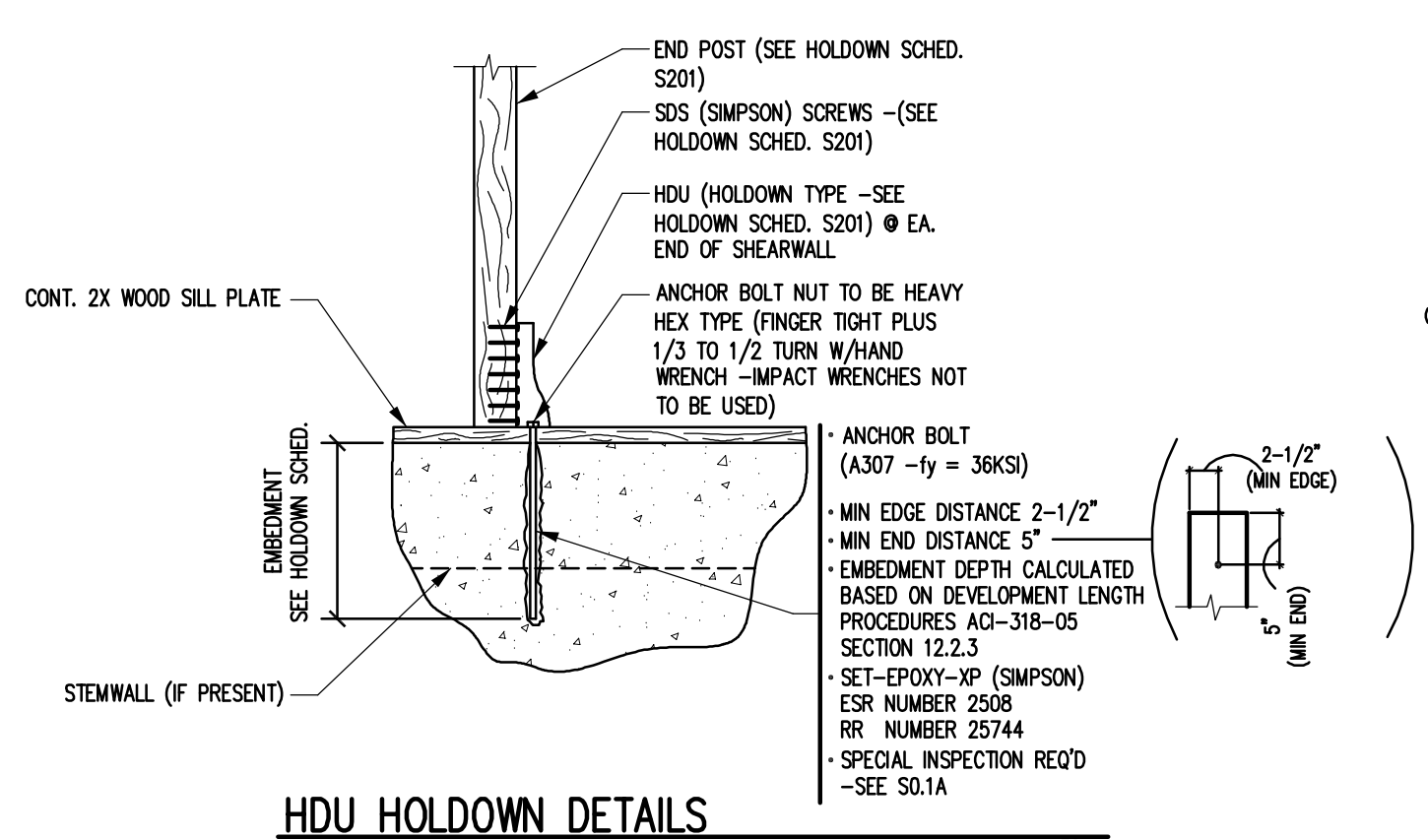
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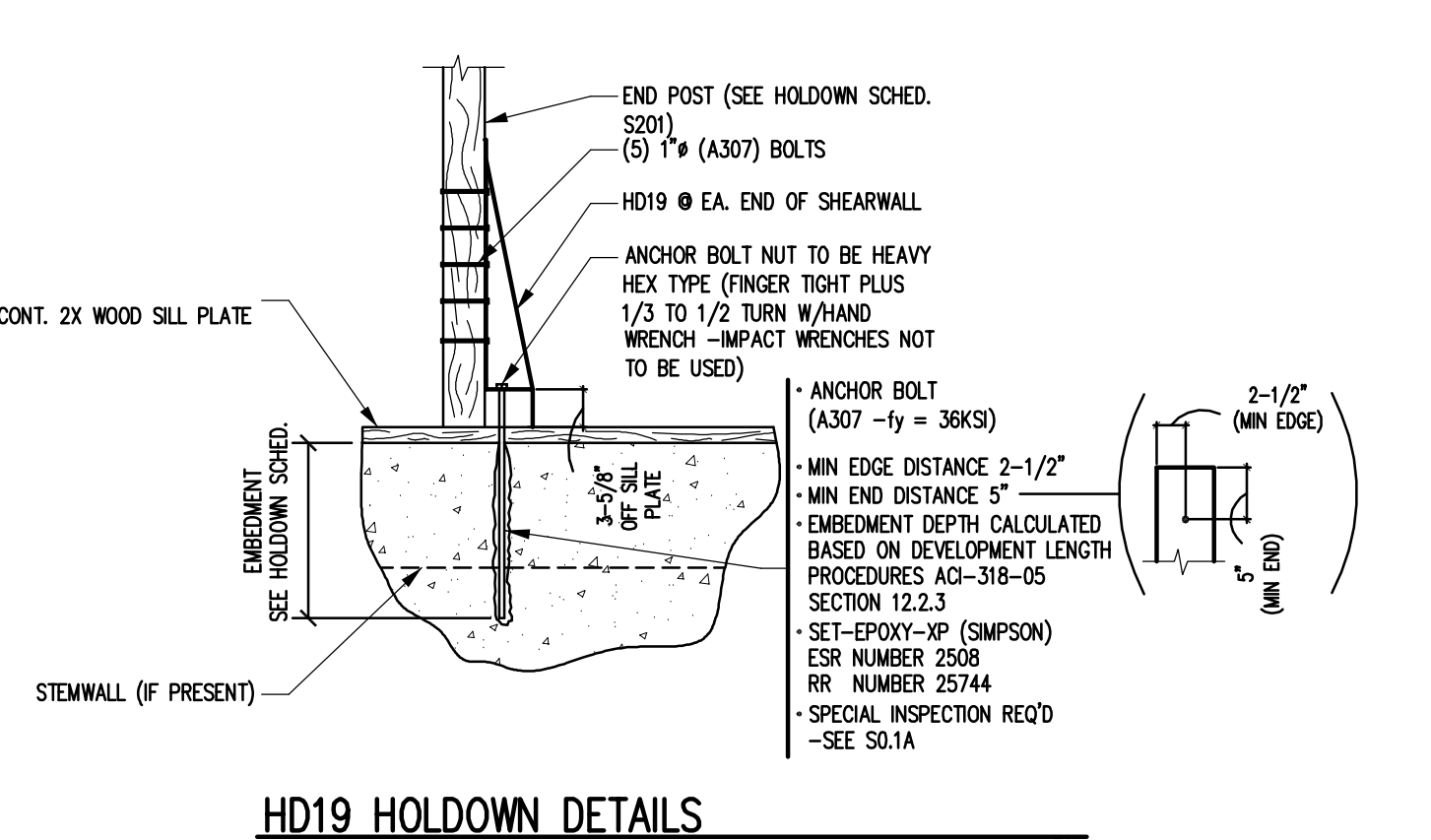
- NOTES**
- DOUBLE STUDS AT EACH END OF PANEL - TYPICAL U.O.N. ON HOLDOWN SCHED. (S201)
  - E.N. (EDGE NAILING) - SEE SHEARWALL SCHED. (S201)
  - FIELD NAILING @ 12" O.C.
  - WOOD STUDS @ 16" O.C. MAX.
  - HOLDOWN AT EA. END OF SHEARWALL ONLY - SEE HOLDOWN SCHED. (S201)
  - 2X or 3X BLOCKING AT UNSUPPORTED SHEATHING PANEL JOINTS - SEE SHEARWALL SCHED. (S201)
  - ANCHOR BOLTS OR DRILLED AND EPOXIED - FOR SIZE AND SPACING - SEE SHEARWALL SCHED. (S201)
  - SHEATHING MATERIAL - SEE SHEARWALL SCHED. (S201)
  - FLOOR LINE
  - BLOCKING OR FLOOR/ROOF JOIST OR TRUSS
  - DIAPHRAGM SHEATHING - SEE DIAPHRAGM SCHED. (S201)
  - 2 - 2X TOP PLATES
  - 2X OR 3X BTM. PLATE - IF 3X BTM PLATE IS REQ'D AT LEVELS ABOVE FOUNDATION, PROVIDE FASTENERS W/ PENETRATION OF 2" INTO CONT. BLOCKING BELOW USING SPACING PER SHEARWALL SCHED. (S201)

TYP. SHEARWALL ELEVATION (AWAY FROM OPENINGS)

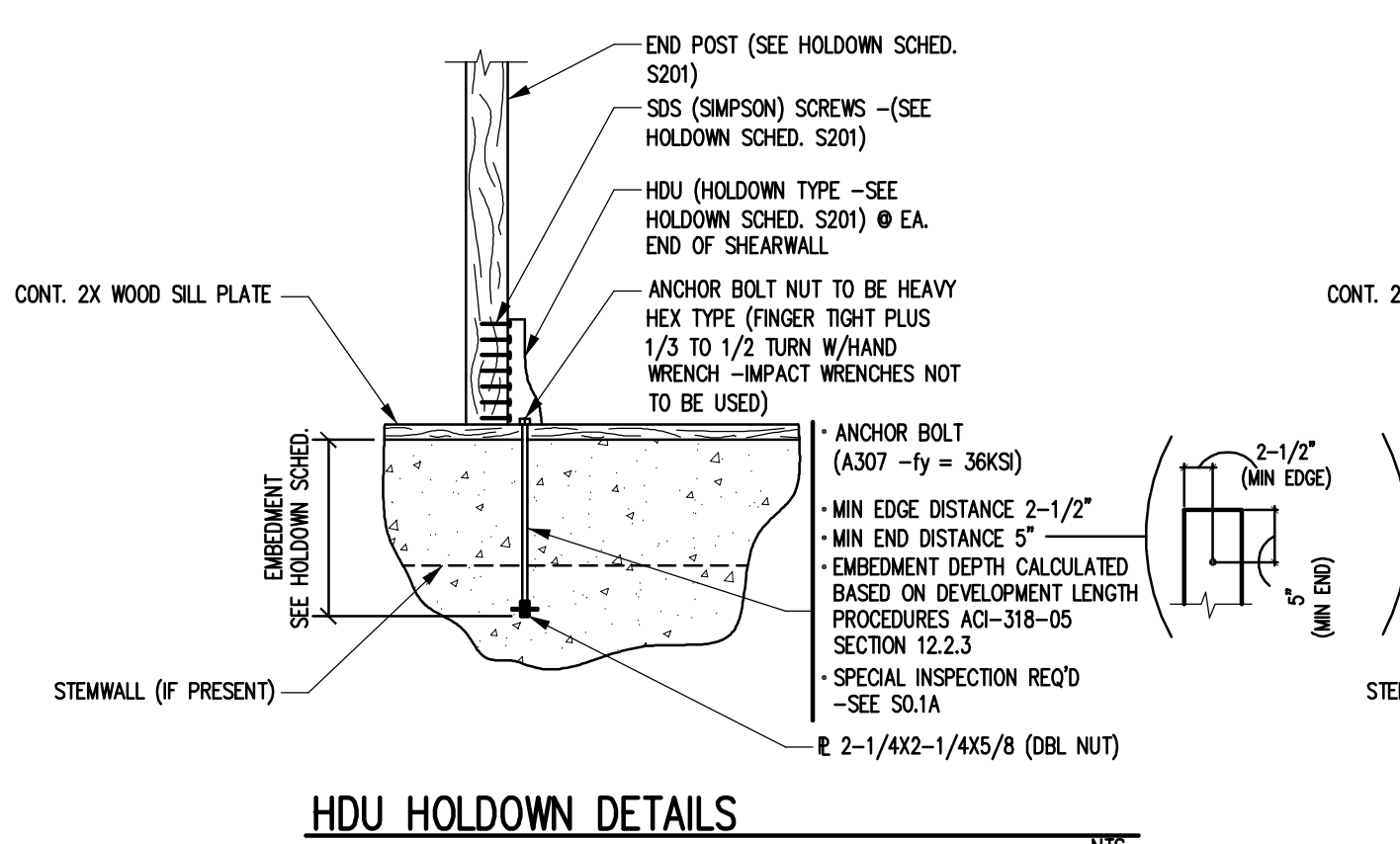
1 TYPICAL SHEARWALL ELEVATIONS AND NOTINGS



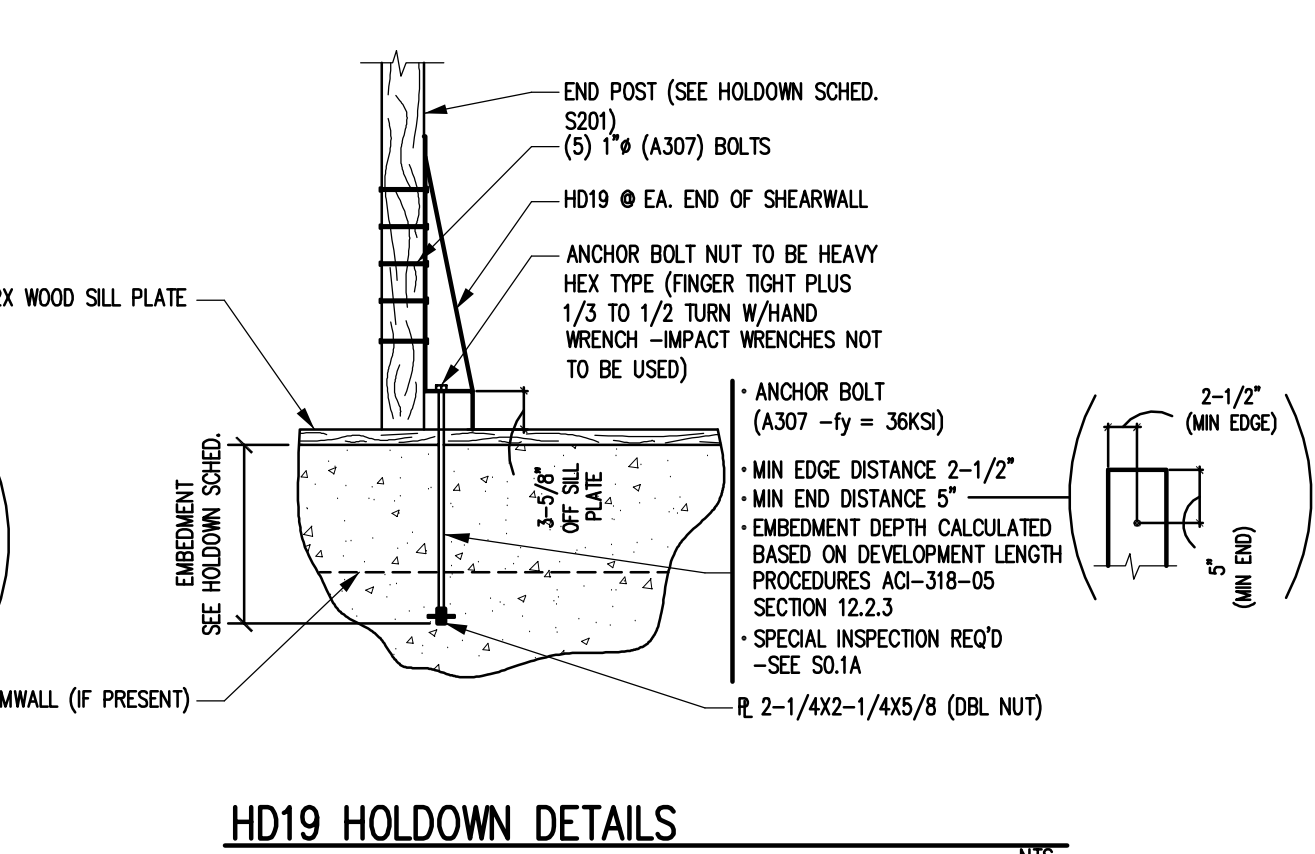
HDU HOLDOWN DETAILS  
DRILLED AND EPOXIED HOLDOWN ANCHOR SYSTEM IN CONCRETE



HD19 HOLDOWN DETAILS

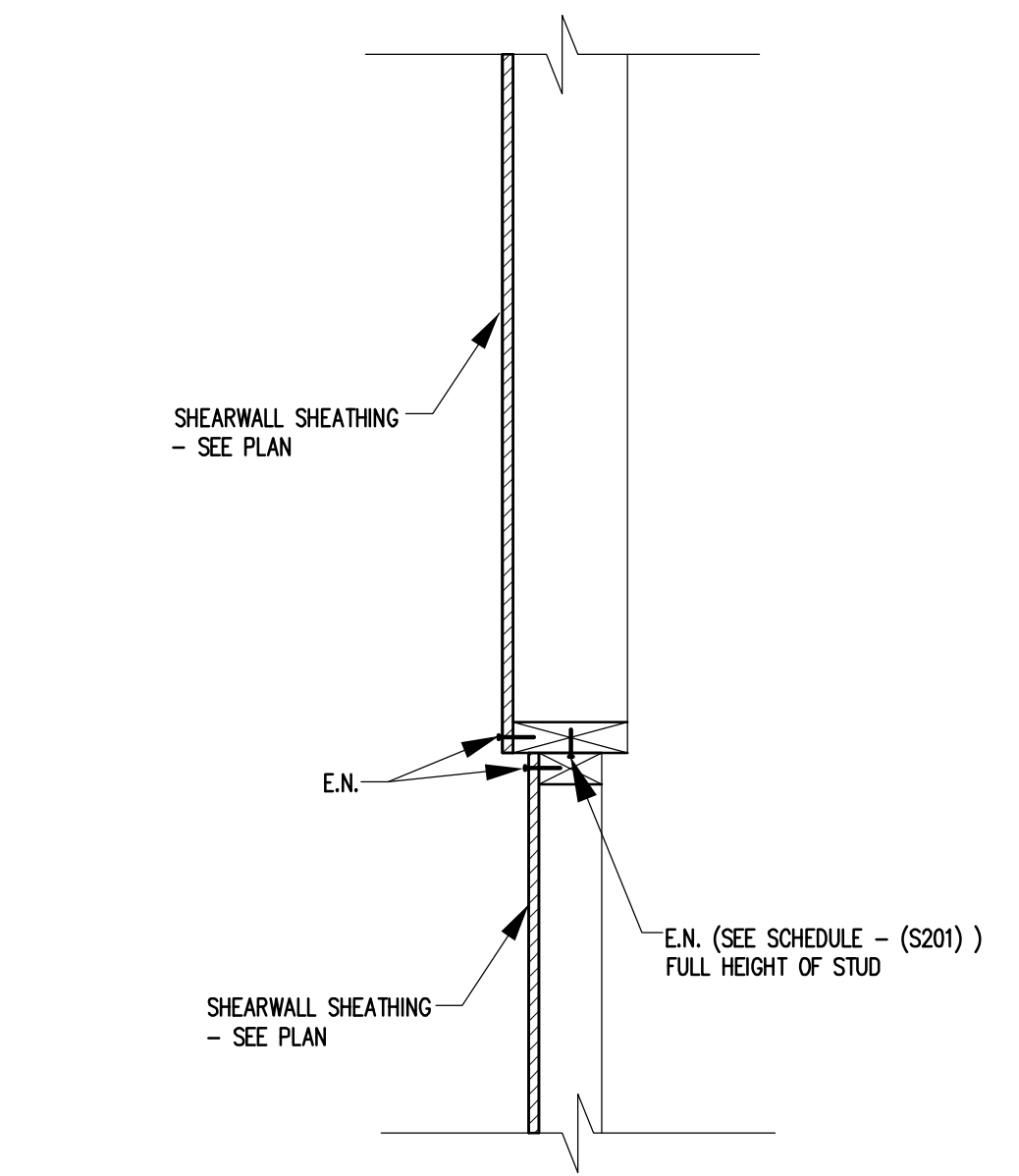


HDU HOLDOWN DETAILS

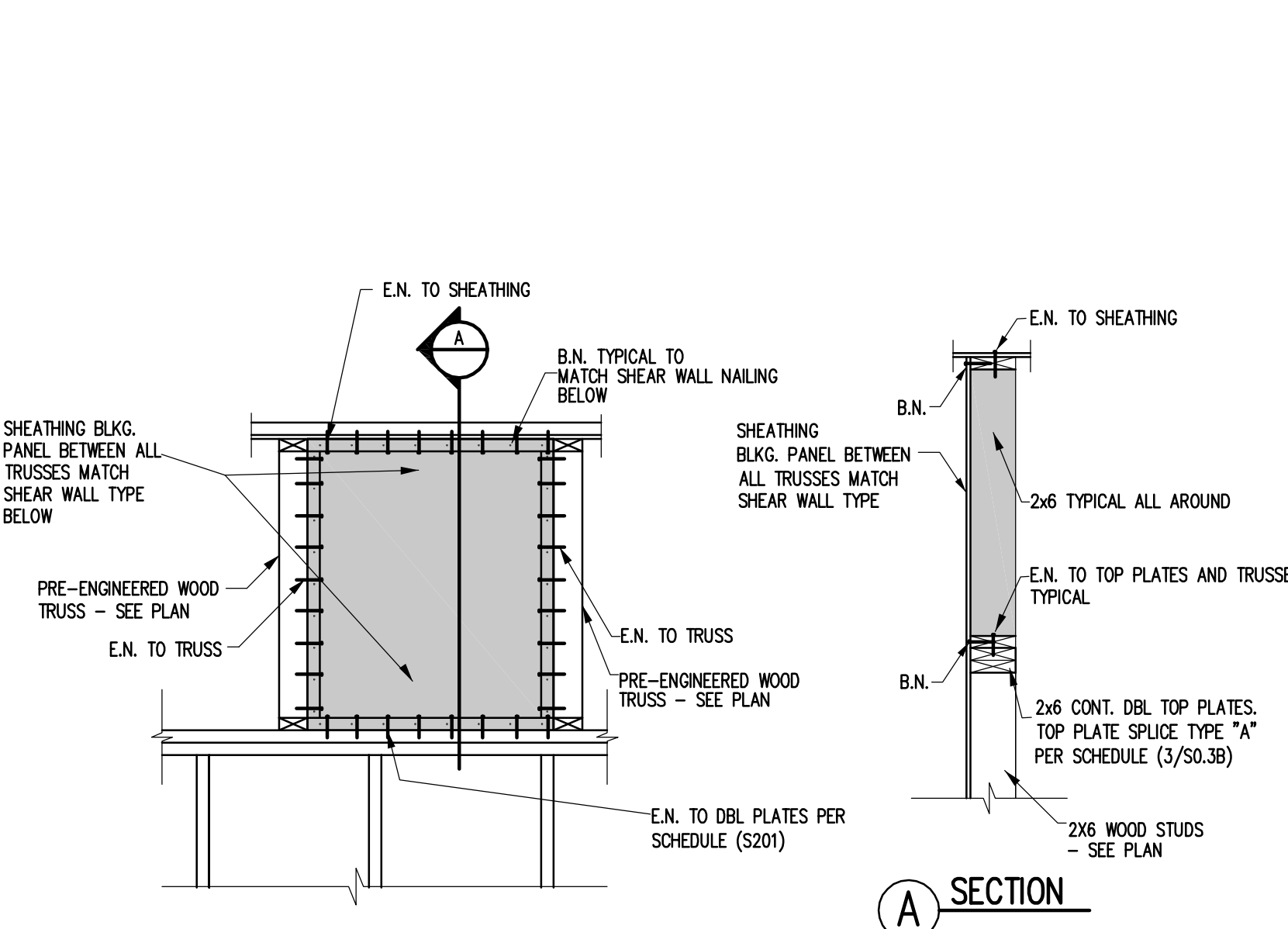


HD19 HOLDOWN DETAILS

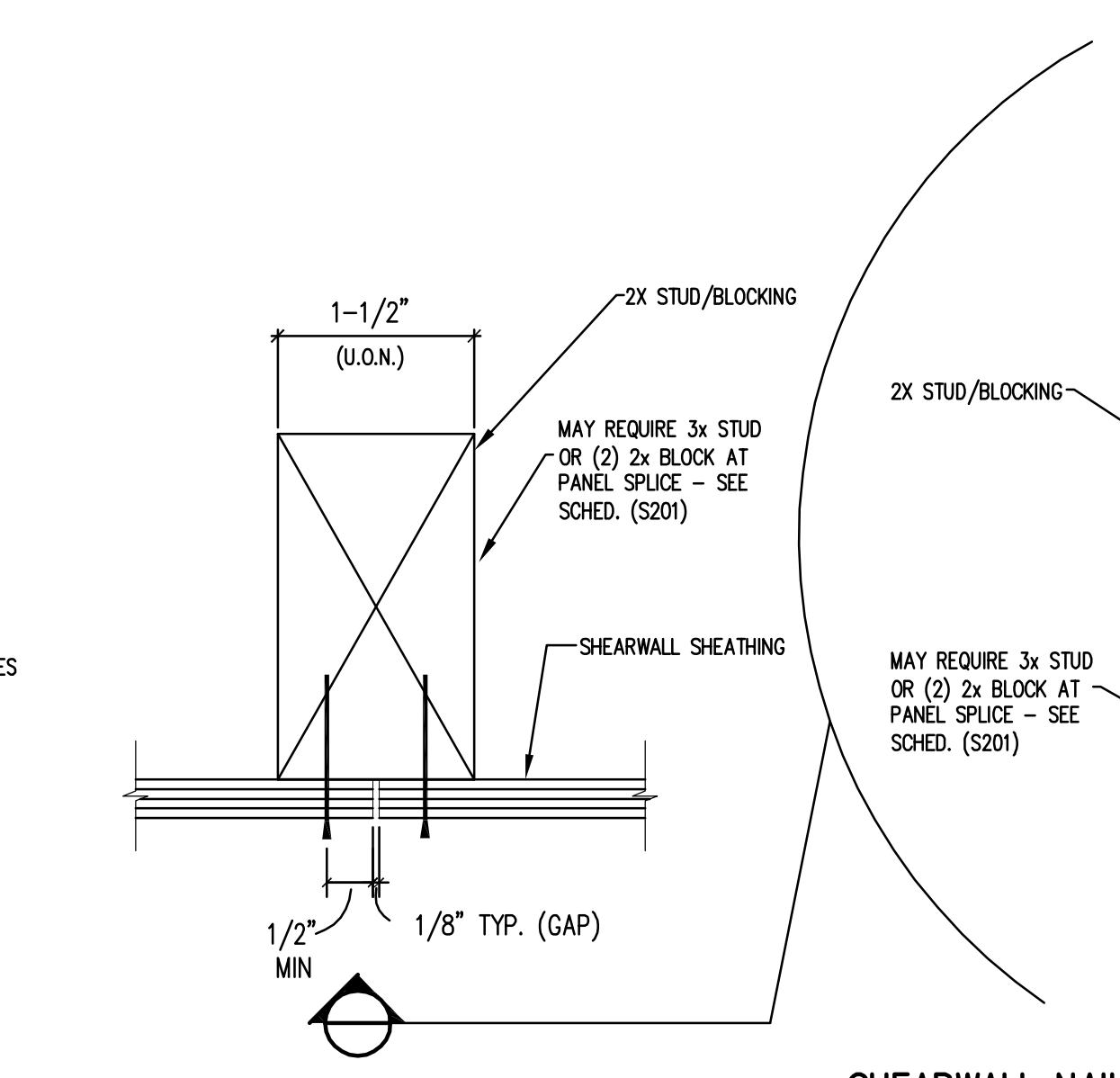
CAST-IN-PLACE HOLDOWN ANCHOR OPTION IN CONCRETE



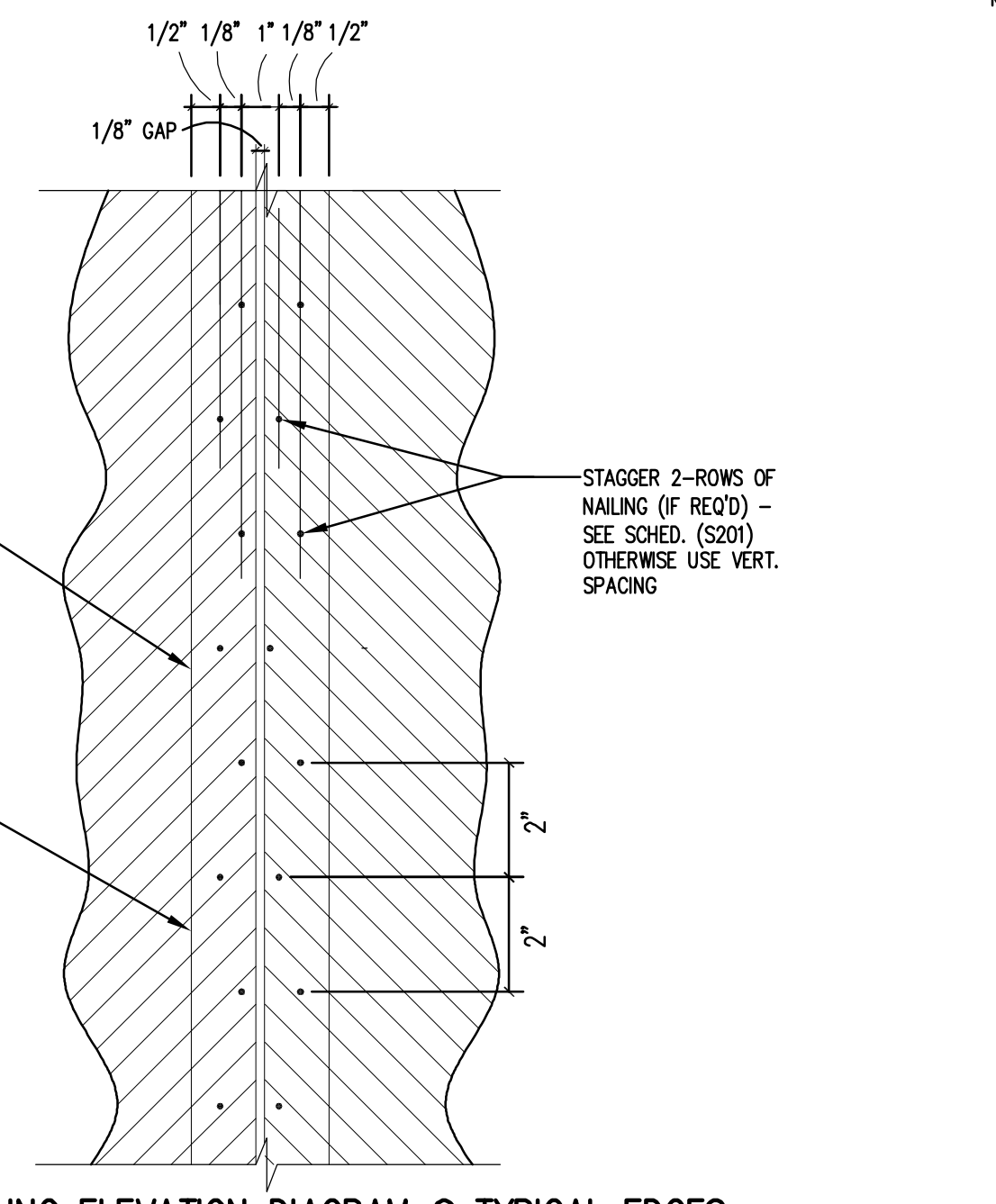
SHEARWALL CONTINUATION @ WALL THICKNESS CHANGE (WHERE OCCURS)



FIELD CONSTRUCTED BLOCKING PANEL (OPTION) (BETWEEN TRUSSES)



EDGE SPACING



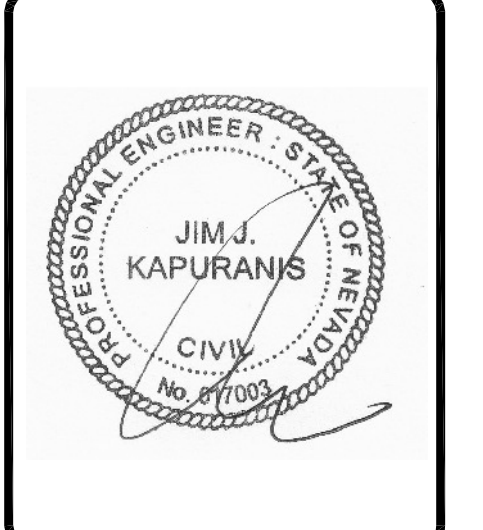
SHEARWALL NAILING ELEVATION DIAGRAM @ TYPICAL EDGES

2 MISC. SHEARWALL DETAILS

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**WOOD SHEARWALL GENERAL NOTES**

REV.#	DATE	COMMENTS

**REVIEWS**

INITIALS	BDA DSGN. REV.	BDA TECH. REV.

CCAS  
PROJECT NO.: 1107  
DRAWN:  
DATE: 2/10/15

**S0.3C**  
OF

Save Date: February 27, 2015 - 9:40 AM - Yarni New  
Plot Date: February 27, 2015 - 12:10 PM  
Drawing Name: P:\2015\15-062\Drawings\DWG\Drawings\S0.3C.dwg

3240 Just Taber Blvd, S. Albuquerque, New Mexico 87111 Tel: 505 298 5706 Fax: 505 296 1973 www.jjkgroup.com



## STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL BE SHOP FABRICATED IN ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" LATEST EDITION, WELDING SHALL COMPLY WITH AWS 1.1 "STRUCTURAL STEEL WELDING".
- CONTRACTOR TO VERIFY ALL MEASUREMENTS AT JOB SITE.
- PROVIDE ALL LUGS, CLIPS, ANGLES AND MISCELLANEOUS FASTENERS NECESSARY FOR THE COMPLETE ASSEMBLY AND INSTALLATION.
- DO ALL GROUTING OF BASE PLATES AND SIMILAR ITEMS WITH NON-SHRINK GROUT.
- PROTECT ALL DISSIMILAR METALS FROM GALVANIC CORROSION.
- PROVIDE WASHERS ON ALL HEADS AND NUTS BEARING ON WOOD. DRAW ALL NUTS TIGHT AND UPSET THREADS OF PERMANENT CONNECTIONS TO PREVENT LOOSENING. USE BEVELED WASHERS WHERE BEARING IS ON SLOPED SURFACES.
- THOROUGHLY CLEAN ALL MILL SCALE, RUST, DIRT, GREASE AND OTHER FOREIGN MATTER FROM FERROUS METAL PRIOR TO PAINTING.
- AFTER MATERIAL HAS BEEN PROPERLY CLEANED AND TREATED, APPLY PRIME COAT OF PAINT TO ALL SURFACES EXCEPT THOSE ENCASED IN CONCRETE OR MASONRY. APPLY ALL PAINT AS PER MANUFACTURER'S DIRECTIONS. SPOT PAINT ALL ABRASIONS AND FIELD CONNECTIONS AFTER ASSEMBLY. SHOP COAT SHALL BE DRY PRIOR TO SHIPMENT TO JOB SITE.
- REFER TO SHEET S0.1 FOR ALL "ER" REQUIRED REPORTS.
- WELDING FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AWS CODE P1.1. WELDS SHALL BE MADE ONLY BY OPERATORS EXPERIENCED IN PERFORMING THE TYPE OF WORK INDICATED. WELDS NORMALLY EXPOSED TO VIEW IN THE FINISHED WORK SHALL BE UNIFORMLY MADE AND GROUND SMOOTH. WHERE WELDING IS DONE IN PROXIMITY TO GLASS OR FINISHED SURFACES, SUCH SURFACES SHALL BE PROTECTED FROM DAMAGE DUE TO WELD SPARKS, SPATTER OR TRAMP METAL.
- INDIVIDUAL WELDERS FOR STRUCTURAL METAL WORK SHALL BE QUALIFIED FOR THE WELDS BEING PERFORMED.
- WELDING ELECTRODES TO BE E70 SERIES UNLESS OTHERWISE NOTED.
- ALL STRUCTURAL MISCELLANEOUS STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE A.I.S.C SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.

### ASTM MATERIAL REQUIREMENTS:

- ASTM A-992 GRADE 50 FOR ALL WIDE FLANGE W SECTIONS AND T SECTIONS.
- ASTM A-36 FOR C, MC, BARS, ANGLES, AND PLATES.
- ASTM A-53 GRADE B OR A-501 FOR STEEL PIPES.
- ASTM A-500 GRADE B, Fy=46 KSI FOR TS/HSS TUBE STEEL FOR SIZES UP TO 5/8" THICK.
- ASTM A-501 GRADE B, Fy=36 KSI FOR TS/HSS TUBE STEEL FOR OTHERS UP TO 1" THICK.
- ASTM A-307 PLAIN BOLTS.
- ASTM F-1554 GRADE 36, A-307 OR A-36 PLAIN ANCHOR BOLTS.
- ASTM A-325-N HIGH STRENGTH BOLTS; TESTED BY A CALIBRATED WRENCH UNLESS LOAD INDICATOR BOLTS ARE USED. HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO "SHUG TIGHT" CONDITION PER AISC UNLESS SPECIFICALLY CALLED OUT TO BE "TORQUED AND TESTED" ON PLANS BY A CALIBRATED TORQUE WRENCH.

- CLEARLY IDENTIFY EACH PIECE OF STRUCTURAL STEEL WITH A PIECE MARK AND THE CORRESPONDING STRUCTURAL ASTM GRADE AND YIELD STRESS.
- SEE MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT SUPPORT FRAMING AND SPREADERS. SEE MECHANICAL & ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY, SIZE, LOCATIONS, AND WEIGHT OF MECHANICAL UNITS.

## STRUCTURAL METAL DECK

- THE MANUFACTURING, DETAILING, AND ERECTION OF METAL DECK SHALL BE IN ACCORDANCE WITH THE "STEEL DECK INSTITUTE SPECIFICATIONS", LATEST EDITION.
- ALL METAL DECK SHALL BE FABRICATED FROM STEEL HAVING A MINIMUM YIELD STRENGTH OF 33,000 PSI.
- REFER TO PLANS AND DETAILS FOR DECK SIZE.
- PROVIDE DETAILED AND CHECKED SHOP DRAWINGS INDICATING LOCATION, GAGE, AND SIZE OF EACH PIECE OF DECKING AND RELATED DECKING ACCESSORY. THE DRAWINGS SHALL CLEARLY SHOW WELDING DETAILS TO STRUCTURAL FRAMING ELEMENTS, SIDE LAP CONNECTION DETAILS, DECK OPENINGS, EDGE CLOSURES, AND WHERE REQUIRED, SUPPLEMENTARY DECK AND/OR CLOSURE REINFORCING.
- ALL DECKING SHALL BE WELDED TO STRUCTURAL STEEL BY QUALIFIED WELDERS USING PRE-QUALIFIED PROCEDURES. THE TECHNICAL SPECIFICATIONS ESTABLISH A PROCEDURE FOR PRE-QUALIFICATION OF THE PLUG WELDING OF THE STEEL DECKING TO THE STRUCTURAL STEEL FOR THE PARTICULAR GAGES USED. PRIOR TO THE START OF ERECTION OF THE STEEL DECK, EACH WELDER SHALL BE QUALIFIED USING THIS PROCEDURE AS WITNESSED BY THE OWNER'S STRUCTURAL STEEL TESTING LABORATORY.
- THE METAL DECK SHALL BE DESIGNED TO BE UNSHORED AND CONTINUOUS OVER A MINIMUM OF THREE (3) SPANS IN THE DIRECTION INDICATED. METAL DECKING FOR SINGLE AND DOUBLE SPANS, IF REQUIRED, SHALL ALSO SATISFY THE SPECIFIED LOAD AND DEFLECTION REQUIREMENTS.
- THE DECK SHALL BE DESIGNED FOR AN ASSUMED SUITABLE CONSTRUCTION LIVE LOAD. THE ASSUMED CONSTRUCTION LIVE LOAD SHALL NOT BE LESS THAN 20 PSF. HOWEVER, CONTRACTOR SHALL FOLLOW ALL APPLICABLE CITY, LOCAL, STEEL DECK INSTITUTE, AND AISC REQUIREMENTS FOR TEMPORARY CONSTRUCTION LOADINGS.
- DO NOT HANG LOADS FROM METAL DECK. HANG ALL DUCTWORK, PIPING, ETC. DIRECTLY FROM STRUCTURAL STEEL FRAMING OR SUPPLEMENTARY MEMBERS. ALL HANGING LOAD DETAILS SHALL BE SUBMITTED FOR REVIEW. LATERAL ROOF LOADS SHALL BE TRANSFERRED THROUGH DIAPHRAGM ACTION PROVIDED BY THE METAL ROOF DECK.
- PROVIDE CONTINUOUS SHEET METAL CLOSURES AT ALL SLAB OPENINGS AND SLAB EDGES AND CONTINUOUS DECK CLOSURES AT ALL DECK ENDS.
- ALL METAL DECK SHALL BE WELDED TO THE SUPPORTING STEEL PER SCHEDULE (THIS SHEET). PUDDLE WELDS AT 12 INCHES ON CENTER (6" O.C. AT PERIMETER). THE USE OF WELDING WASHERS FOR ALL METAL DECK WELDING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE WELDED SIDE LAP FASTENERS AT 36" MAXIMUM ON CENTER OR #10 TEK SIDE LAP FASTENERS AT A MINIMUM OF 2 PER SPAN, UNLESS OTHERWISE NOTED. REFER TO ATTACHMENT PATTERN SCHEDULE THIS SHEET.
- PROVIDE, AS REQUIRED, ALL RIDGE AND VALLEY PLATES, COLUMN CLOSURES, CANT STRIPS, SUMP PLATES AT PIPING PENETRATIONS, AND RECESSED SUMP PANS AT ROOF DRAINS. PROVIDE SUPPLEMENTAL FRAMING, INCLUDING REINFORCING PLATES, AT OPENINGS AS REQUIRED FOR SUPPORT OF THE METAL DECK. COORDINATE ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

### COMPOSITE METAL DECK

- ALL SLAB COMPOSITE METAL DECK SHALL HAVE WIDE RIBS SUITABLE FOR SHEAR STUD PLACEMENT WHERE STUDS ARE REQUIRED. THE CONFIGURATION OF THE METAL DECK SHALL BE SUCH AS TO DEVELOP THE FULL SHEAR VALUE OF THE STUD FOR THE PARTICULAR WEIGHTS OF THE CONCRETE AS LISTED IN THE AISC SPECIFICATIONS, LATEST EDITION. THE CONTRACTOR SHALL PROVIDE VERIFICATION OF THE STUD VALUES FOR THE SPECIFIC DECK TYPE AND STUD SPACING AND PROVIDE ADDITIONAL STUDS AS REQUIRED FOR SPECIFIC DECK TYPES UTILIZED.
- PROVIDE 3/4" DIA. x 3-1/2" HEADED STUDS AS DESIGNATED ON STEEL MEMBERS WHICH SUPPORT METAL DECK SLABS. OMIT STUDS WHERE NOT SHOWN ON PLANS.
- THE CONTRACTOR SHALL PROVIDE CHECKED SHOP DRAWINGS INDICATING EXACT LAYOUT OF STUDS FOR EACH BEAM, SPAN, AND DECK LAYOUT.
- SHEAR STUDS SHALL BE WELDED THROUGH THE METAL DECK BY PRE-QUALIFIED METHODS. IF THROUGH-DECK WELDING IS UNFEASIBLE, THE STUDS SHALL BE INSTALLED IN PRE-PUNCHED HOLES IN THE DECK.

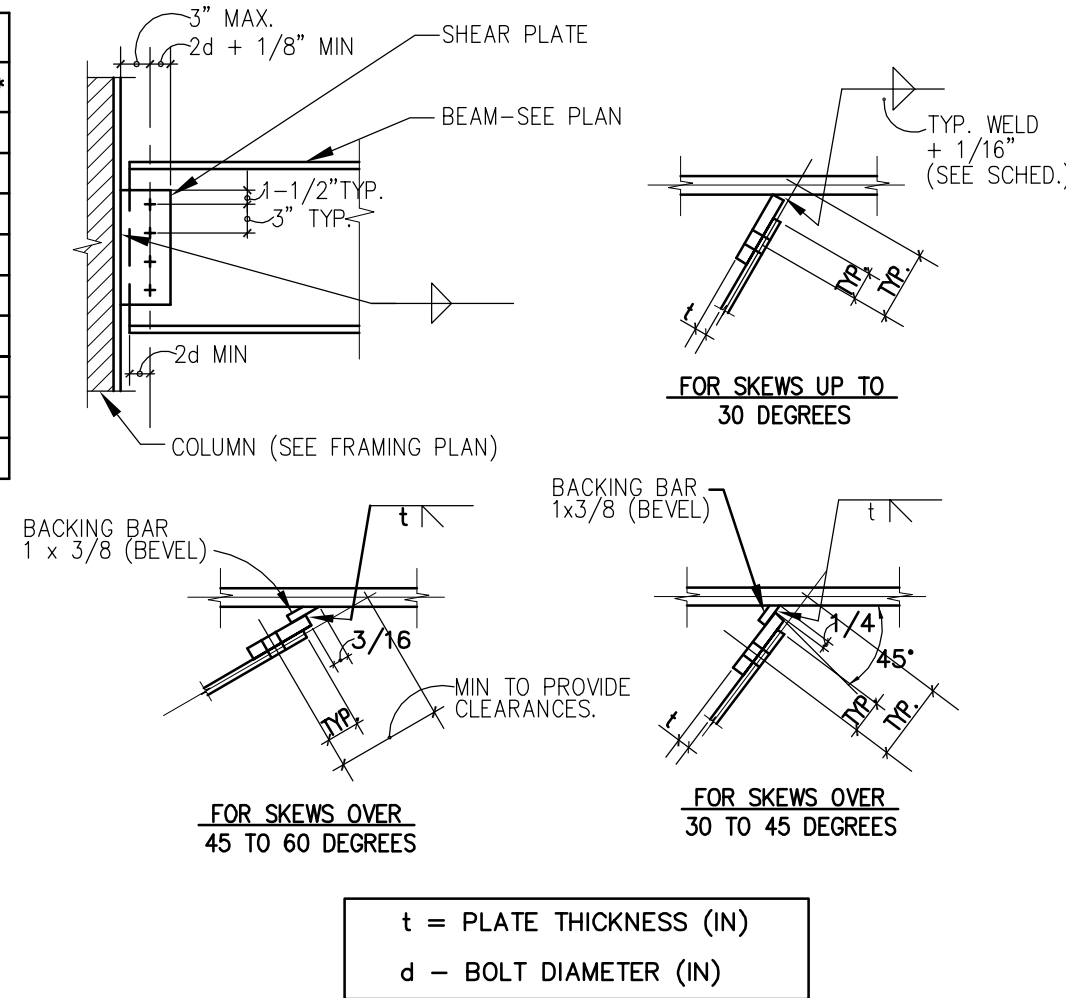
CONNECTION SCHEDULE				
BEAM SIZE	NO. OF 7/8" BOLTS	SHEAR PLATE THICKNESS	WELD SIZE	CAP (KIPS)*
W10x	2	3/8"	1/4" (3)	8.2

\*HIGHER CAPACITIES MAY BE REQUIRED - SEE PLANS.

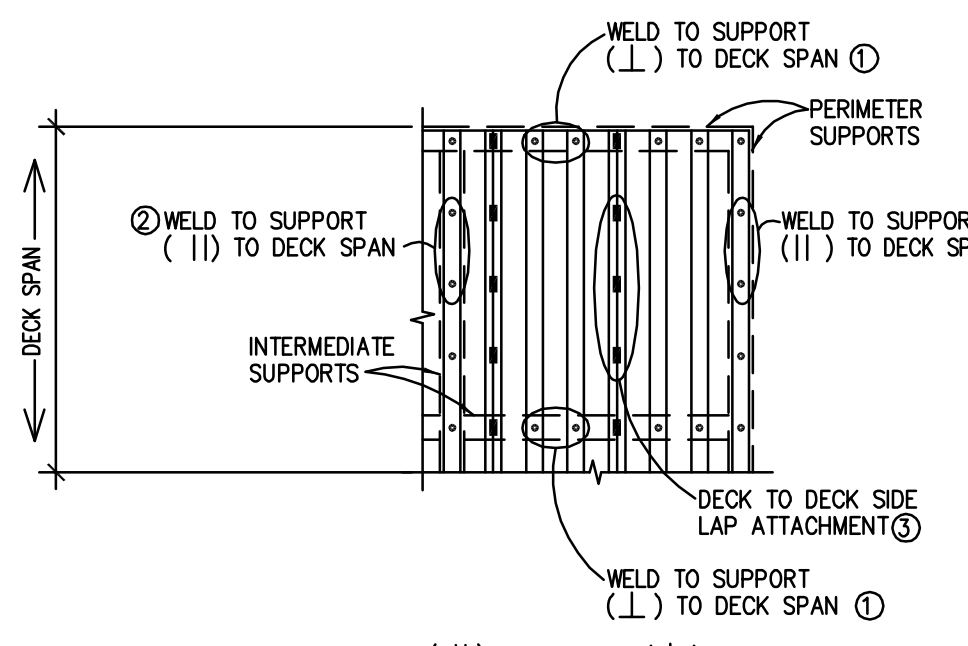
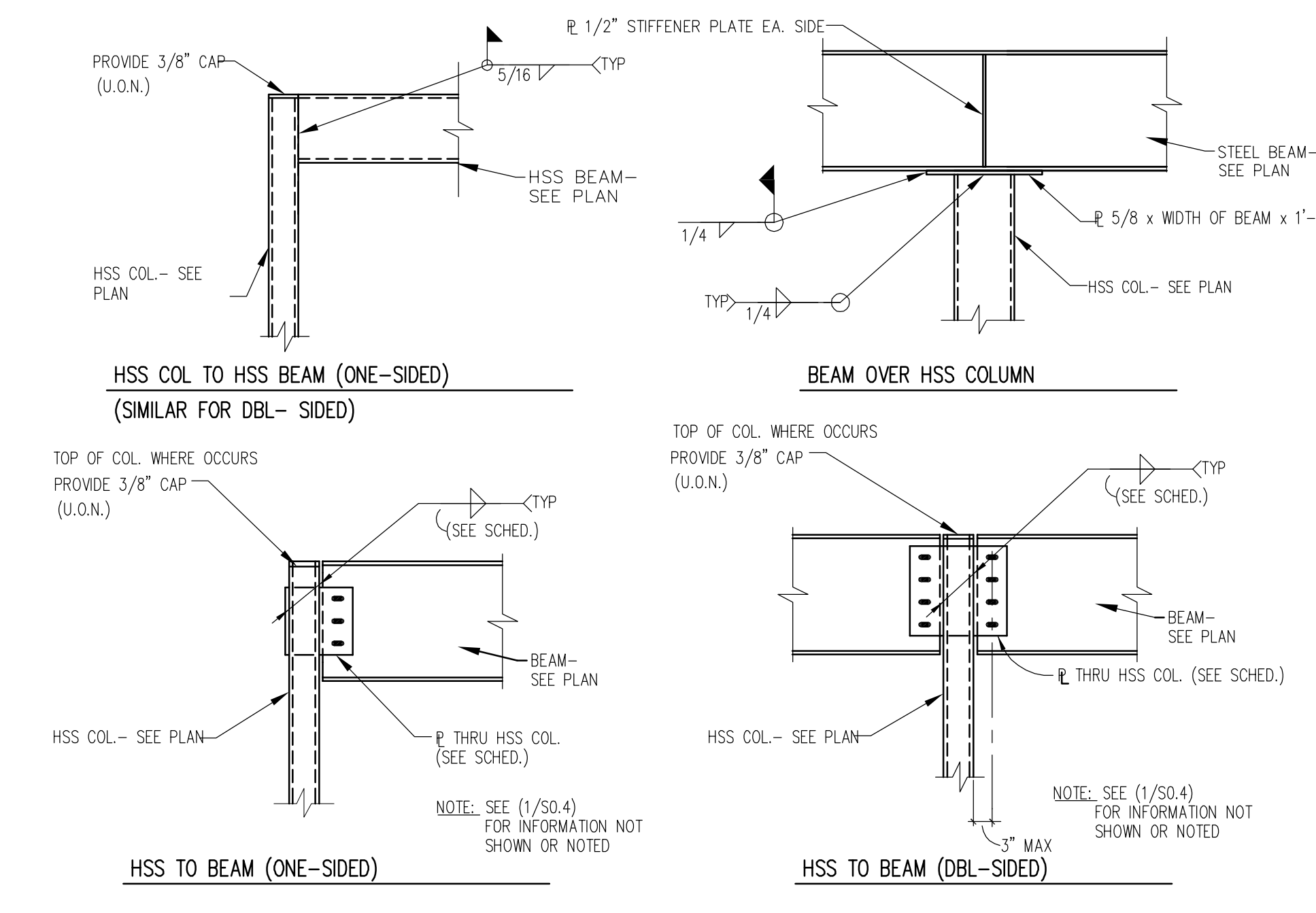
### NOTES:

- ALL BOLTS ARE INSTALLED IN STANDARD OR SHORT-SLOTTED (HORIZONTAL ORIENTATION OF SLOT) HOLES AS NOTED IN SPECIFIC DETAILS. REFER TO DETAILS-THIS SHEET FOR SIMPLE BEAM TO COLUMN CONNECTIONS.
- PROVIDE BOLTS IN TWO VERTICAL ROWS WHEN SCHEDULED BOLTS CANNOT FIT IN ONE ROW.
- UNLESS LARGER SIZE WELD IS REQUIRED BY AISC SPECIFICATIONS FOR WELDING TO THICKER PLATES.
- ALL BOLTS ARE A325 BOLTS (SLIP CRITICAL) - U.O.N.
- ALL BOLTED CONNECTIONS SHALL BE TYPE(N) BOLTS.
- FABRICATOR STANDARD CONNECTION DETAILS MAY BE SUBMITTED FOR APPROVAL.
- CHANNEL SHAPES "C" SHALL HAVE SAME CONNECTION AS "W" SHAPES OF EQUAL DEPTH.

## 1 CONNECTION SCHEDULE AND REQUIREMENTS (WHERE APPLICABLE - SEE PLANS)

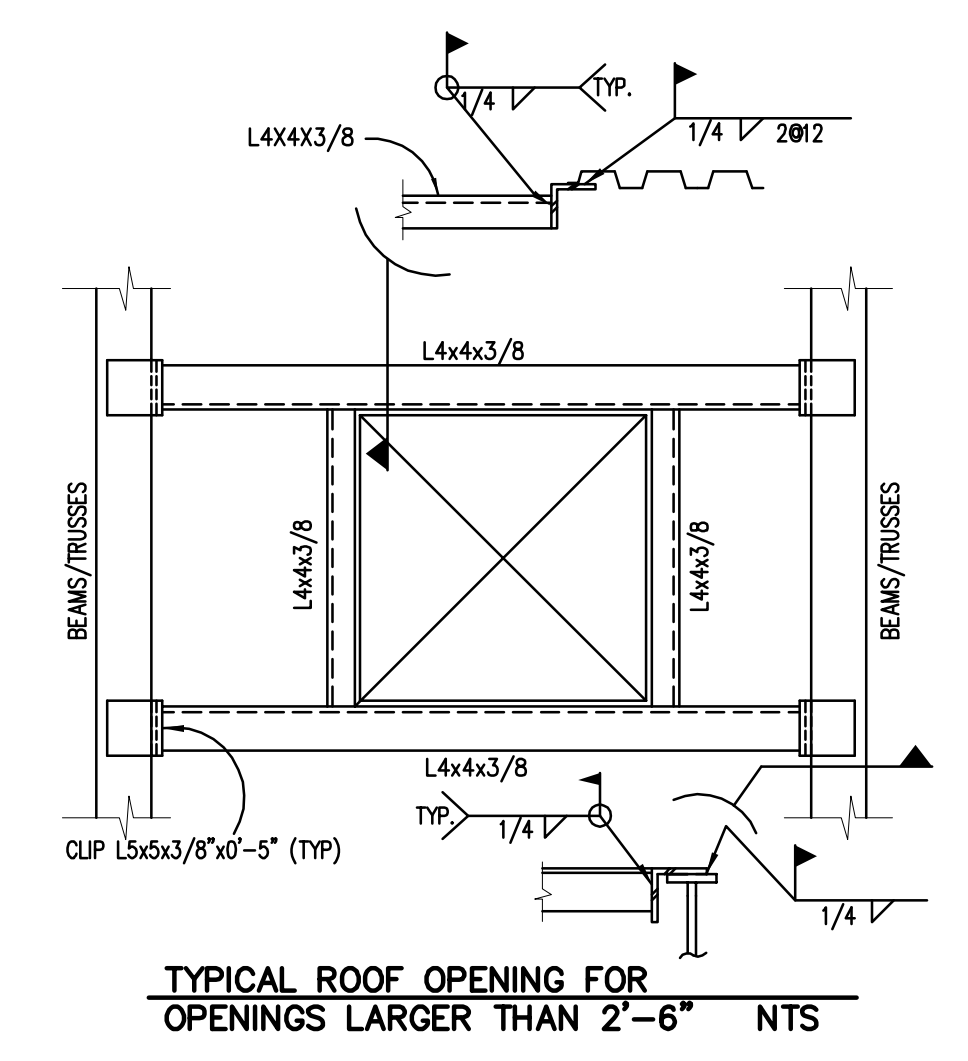
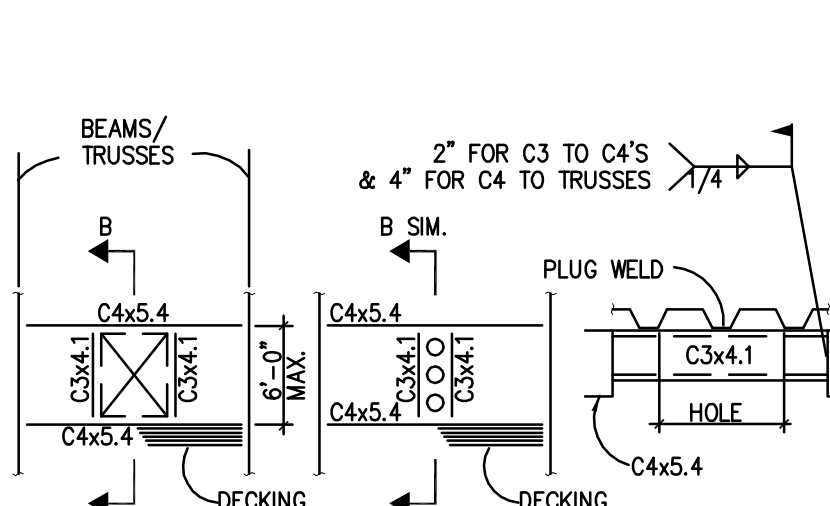
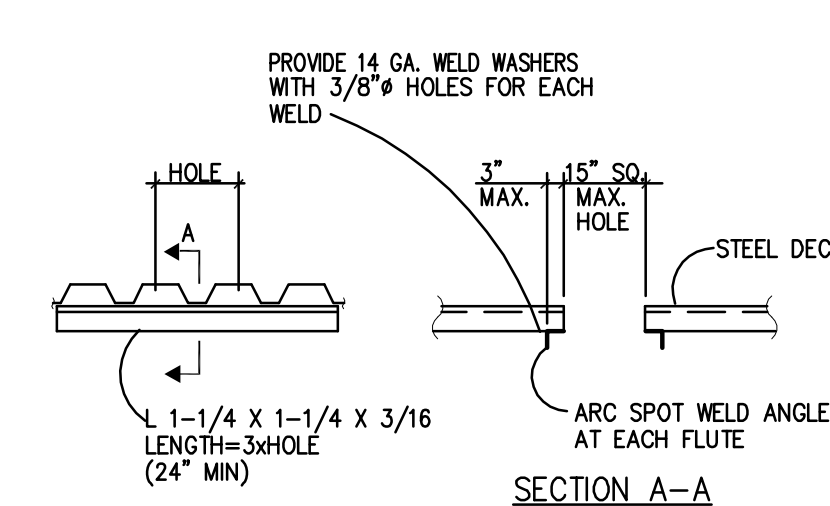


## 2 TYPICAL SIMPLE SHEAR CONNECTIONS (WHERE APPLICABLE)



DECK TYPE	ATTACHMENT PATTERN			DIAPHRAGM SHEAR	DECK TYPE	DEPTH (INCHES)	GAUGE	CONFIGURATION	I min (IN <sup>4</sup> /FT)	Sx min (IN <sup>3</sup> /FT)	Fy (KSI)
	TO SUPPORT PERPENDICULAR TO DECK RIBS ①	TO SUPPORT PARALLEL TO DECK RIBS ②	DECK TO DECK SIDE LAPS ③								
3N	5/8" PUDDLE WELD AT ALL FLUTES	5/8" PUDDLE WELD @ 10" O.C.	(5) FASTENERS PER SPAN #10 TEK	471 LB/FT ON 6'-0" SPAN	B	1-1/2"	18		.292	.327	33
1.5B	5/8" PUDDLE WELD AT ALL FLUTES	5/8" PUDDLE WELD @ 10" O.C.	(7) FASTENERS PER SPAN #10 TEK	455 LB/FT ON 6'-0" SPAN							

- NOTES:
- DIAPHRAGM SHEAR IS IBC ALLOWABLE DIAPHRAGM SHEAR FOR DECK INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS.
  - THE DETAILS SHOWN ON THIS SHEET SHALL BE INCORPORATED INTO THE PROJECT AT ALL LOCATIONS WHERE METAL DECK IS USED, WHETHER SPECIFICALLY CALLED OUT OR NOT.
  - DECK SHALL BE WELDED TO ALL BEAMS AND SUPPORTS.



## 3 METAL DECK DETAILS

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PROFESSIONAL ENGINEER, STATE OF NEVADA  
JIM J. KAPURANIS  
CIVIL  
No. 7053

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**STRUCTURAL STEEL & METAL DECK & DETAILS**

GENERAL NOTES & DETAILS

REV.#	DATE	COMMENTS

REVISED: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
REVISION: \_\_\_\_\_

REVIEWS

INITIALS	BDA DSGN. REV.
	BDA TECH. REV.

CCAS  
PROJECT NO.: 1107  
DRAWN:  
DATE: 2/10/15

**S0.4A**  
OF

JJK Group, Inc.  
Consulting Structural Engineers

3240 Juan Tabo Blvd. C. Albuquerque, New Mexico 87111 Tel. 505.296.5700 Fax 505.296.4672 www.jjkgroup.com

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**EARTHWORK NOTES**

**CRITERIA :**

ALL INFORMATION BELOW IS A SUMMARY PROVIDED BY THE GEOTECHNICAL ENGINEER SOILS REPORT BY : **RESOURCE CONCEPTS, INC DRAFT**  
**JAN 9, 2015**

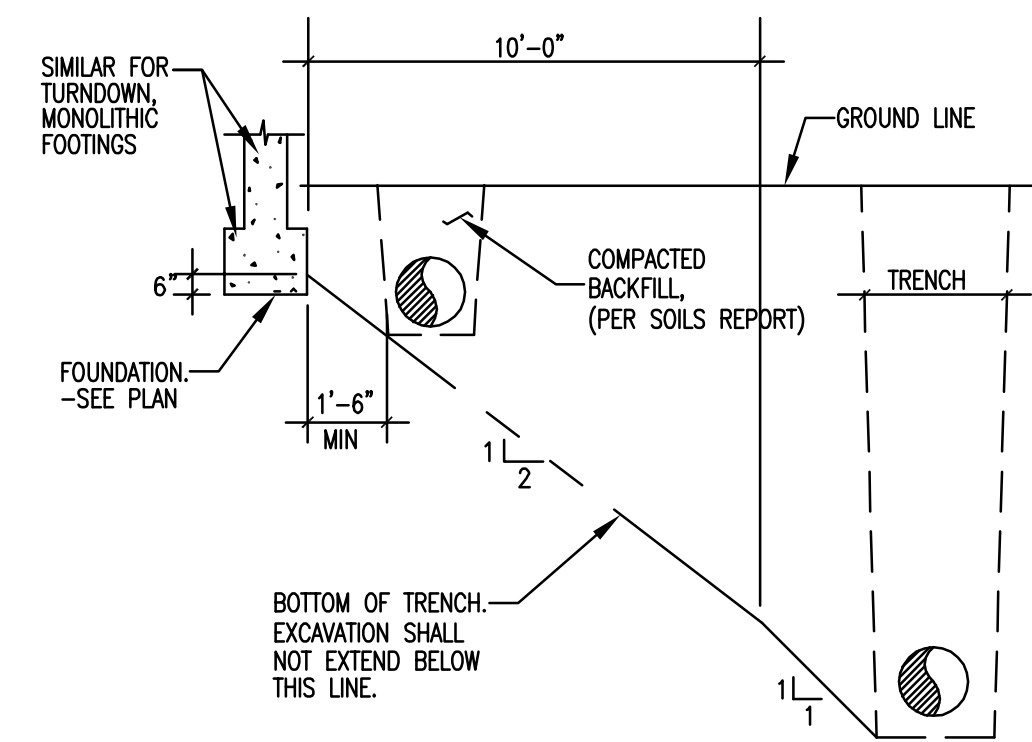
THE FOLLOWING INFORMATION BELOW BY JJK GROUP, INC. DOES NOT RELIEVE THE CONTRACTOR FROM REVIEWING THE SOILS REPORT AND FOLLOWING ALL REQUIRED SUBGRADE PREPARATIONS.

**GENERAL :**

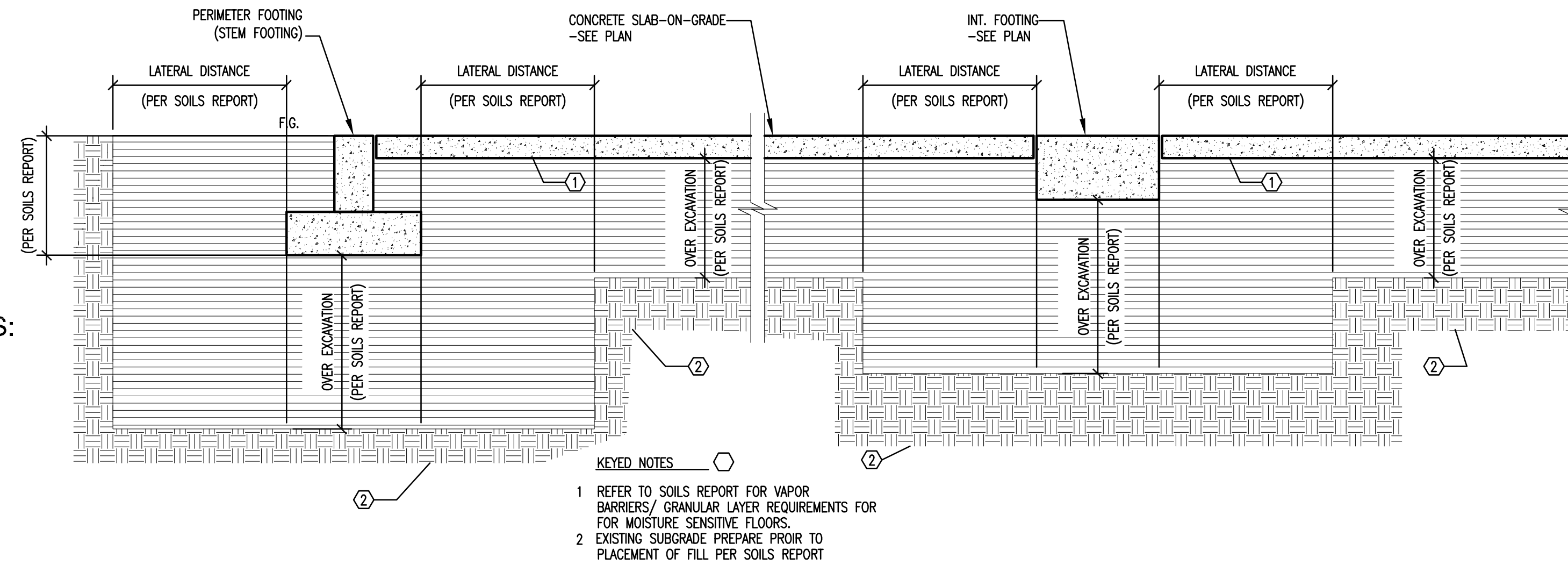
- THE GEOTECHNICAL ENGINEER SHALL ACT AS THE OWNER'S REPRESENTATIVE AND SHALL MAKE OBSERVATIONS AND TESTS AS CONSIDERED NECESSARY FOR QUALITY CONTROL WHERE FOUNDATIONS OR OTHER CRITICAL ELEMENTS ARE TO BE SUPPORTED ON ENGINEERED FILL. CONTINUOUS OBSERVATIONS AND TESTS OF GRADING OPERATIONS SHALL BE MADE BY THE GEOTECHNICAL ENGINEER. ALL TESTS SHALL BE PERFORMED IN ACCORDANCE WITH PROCEDURES SET FORTH IN THE CURRENT BOOK OF STANDARDS OF THE AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM).
- FILL OR BACKFILL CONSISTING OF SOIL APPROVED BY THE GEOTECHNICAL ENGINEER, SHALL BE PLACED IN CONTROLLED COMPACTED LAYERS WITH APPROVED COMPACTION EQUIPMENT. CONTROLLED COMPACTED LAYERS WITH APPROVED COMPACTION EQUIPMENT. ALL COMPACTION SHALL BE TO A MINIMUM OF 95 PERCENT (U.O.N. IN SOILS REPORT) OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D-1557 A TEST METHOD. SOILS MOISTURE CONTENT DURING COMPACTION SHALL BE AT OPTIMUM MOISTURE CONTENT PLUS OR MINUS 2% (U.O.N. IN SOILS REPORT).
- TESTS FOR DEGREE OF COMPACTION SHALL BE DETERMINED BY THE ASTM D-1556 OR ASTM D-2922 TEST METHODS. OBSERVATION AND FIELD TESTS SHALL BE CARRIED ON DURING FILL AND BACKFILL PLACEMENT BY THE GEOTECHNICAL ENGINEER TO ASSIST THE CONTRACTOR IN OBTAINING THE REQUIRED DEGREE OF COMPACTION. IF LESS THAN 95 (U.O.N. IN SOILS REPORT) PERCENT IS INDICATED, ADDITIONAL COMPACTION EFFORT SHALL BE MADE WITH ADJUSTMENT OF THE MOISTURE CONTENT AS REQUIRED COMPACTION IS OBTAINED.
- WHEREVER, IN THE OPINION OF THE GEOTECHNICAL ENGINEER, AN UNSTABLE CONDITION IS BEING CREATED, EITHER BY CUTTING OR FILLING, THE WORK SHALL NOT PROCEED IN THAT AREA UNTIL AN INVESTIGATION HAS BEEN MADE AND THE GRADING PLAN REVISED.

**GENERAL DRAINAGE, MAINTENANCE AND PRECAUTIONS:**

- PRECAUTIONS SHALL BE TAKEN DURING AND AFTER CONSTRUCTION TO MINIMIZE SATURATION OF THE FOUNDATION SOILS. POSITIVE DRAINAGE SHALL BE ESTABLISHED AWAY FROM THE EXTERIOR WALLS OF THE STRUCTURE (FOUR PERCENT GRADIENT WITHIN TEN FEET OF THE STRUCTURE). ALL UTILITY TRENCHES LEADING INTO THE BUILDING SHALL BE BACKFILLED WITH COMPACTED FILL. SPECIAL CARE SHALL BE TAKEN DURING INSTALLATION OF WATER LINES TO REDUCE THE POSSIBILITY OF FUTURE SUBSURFACE SATURATION.
- DEPRESSIONS AND EXCAVATIONS SHOULD BE BACKFILLED WITH COMPACTED, NON-SWELLING, RELATIVELY-IMPERVIOUS SOILS SUCH AS CLAYEY SANDS.
- GUTTERS AND DOWN SPOUTS SHOULD BE INSTALLED TO CONTROL ROOF DRAINAGE. DOWNSPOUTS SHOULD DISCHARGE A MINIMUM OF TEN FEET AWAY FROM STRUCTURES. AREA DRAINS MAY BE INSTALLED AROUND STRUCTURES TO IMPROVE DRAINAGE. DISCHARGE PIPES SHOULD SLOPE A MINIMUM OF 1/8 TH INCH VERTICAL PER FOOT OF HORIZONTAL PIPE. DRAINAGE SEWERS AND DISCHARGE CHANNELS SHOULD BE KEPT FREE OF DEBRIS.
- EXPANSION JOINTS WITHIN EXTERIOR CONCRETE FLATWORK SHOULD BE FILLED WITH A FLEXIBLE JOINT SEALER TO MINIMIZE WATER INFILTRATION.
- SOME MINOR CRACKING OF NEW CONCRETE FOUNDATIONS, CONCRETE FLATWORK, AND INTERIOR DRY WALL IS NORMAL. THIS IS A RESULT OF CONCRETE SHRINKAGE AS IT CURES. "SETTLING IN" OF THE NEW STRUCTURE, DRYING OF TIMBERS USED IN CONSTRUCTION, ETC. NORMALLY THE MAJORITY OF THIS MOVEMENT SHOULD CEASE WITHIN THE FIRST YEAR FOLLOWING CONSTRUCTION. HOWEVER, DEPENDING ON THE STRUCTURE AND SITE CONDITIONS, MOVEMENT MAY CONTINUE AT A SLOW RATE FOR SEVERAL YEARS.
- ROOF GUTTERS AND DOWNSPOUTS SHOULD BE UTILIZED. DOWN SPOUTS SHOULD DISCHARGE DOWN SLOPE AND WELL AWAY FROM THE STRUCTURES. SPLASH BLOCKS SHOULD BE UTILIZED BELOW DOWN SPOUTS. SURFACE WATER SHOULD RUN OFF RAPIDLY.
- LANDSCAPING ADJACENT TO STRUCTURES SHOULD BE DESIGNED AND CONSTRUCTED TO MINIMIZE THE POTENTIAL FOR WETTING OF SOILS SUPPORTING THE PROPOSED FACILITIES. IT IS NOT RECOMMENDED THAT LANDSCAPING REQUIRING IRRIGATION BE INSTALLED CLOSER THAN FIVE FEET OF STRUCTURES. TREES AND SHRUBS SHOULD BE HAND WATERED OR WATERED USING CONTROLLED DRIP IRRIGATION. IF DRIP IRRIGATION IS USED, EMITTERS SHOULD DISCHARGE NO MORE THAN ONE GALLON PER HOUR. WATERING SHOULD BE CAREFULLY CONTROLLED TO PREVENT OVER WATERING. GRASSED AREAS ADJACENT TO STRUCTURES SHOULD BE SLOPED SO THAT EXCESS IRRIGATION WATER WILL RUN OFF PROMPTLY. SPRINKLER LINES AND DRIP IRRIGATION MAINS SHOULD BE LOCATED A MINIMUM OF FIVE FEET AWAY FROM FOUNDATIONS. MOWING STRIPS, PLANTERS AND SIDEWALKS SHOULD NOT "DAM" WATER ADJACENT TO STRUCTURES.



**1 GENERAL TRENCH REQUIREMENTS PARALLEL TO FOUNDATION**

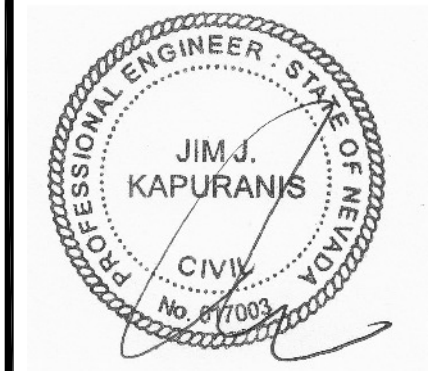
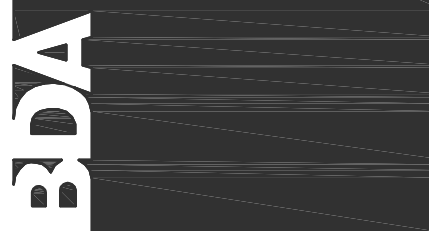


**2 EARTHWORK REQUIREMENTS**

THE ABOVE EARTHWORK INFORMATION IS BASED ON THE SOILS REPORT PROVIDED. THIS **DOES NOT** RELIEVE THE CONTRACTOR FROM THE COMPLETE REVIEW OF THE SOILS REPORT AND ALL REQUIREMENTS/RECOMMENDATIONS OF SUCH REPORT MUST BE FOLLOWED.

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EARTHWORK GENERAL NOTES AND DETAILS		COMMENTS	
REV.#	DATE	REVISION	DATE

REVIEWS	
INITIALS	
	BDA DSGN. REV.
	BDA TECH REV.

CCAS  
 PROJECT NO.: 1107  
 DRAWN:  
 DATE: 2/10/15  
**S0.5**  
 OF

**JJK Group, Inc.**  
 Consulting Structural Engineers

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 The following professional engineer's certificate is hereby given: I, the undersigned, being duly licensed and qualified in the State of New Mexico, do hereby certify that the above information is true and correct to the best of my knowledge and belief, and that I am a duly licensed and qualified professional engineer in the State of New Mexico. My commission expires on 12/31/2015.  
 I, the undersigned, being duly licensed and qualified in the State of New Mexico, do hereby certify that the above information is true and correct to the best of my knowledge and belief, and that I am a duly licensed and qualified professional engineer in the State of New Mexico. My commission expires on 12/31/2015.  
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**GENERAL NOTES :**

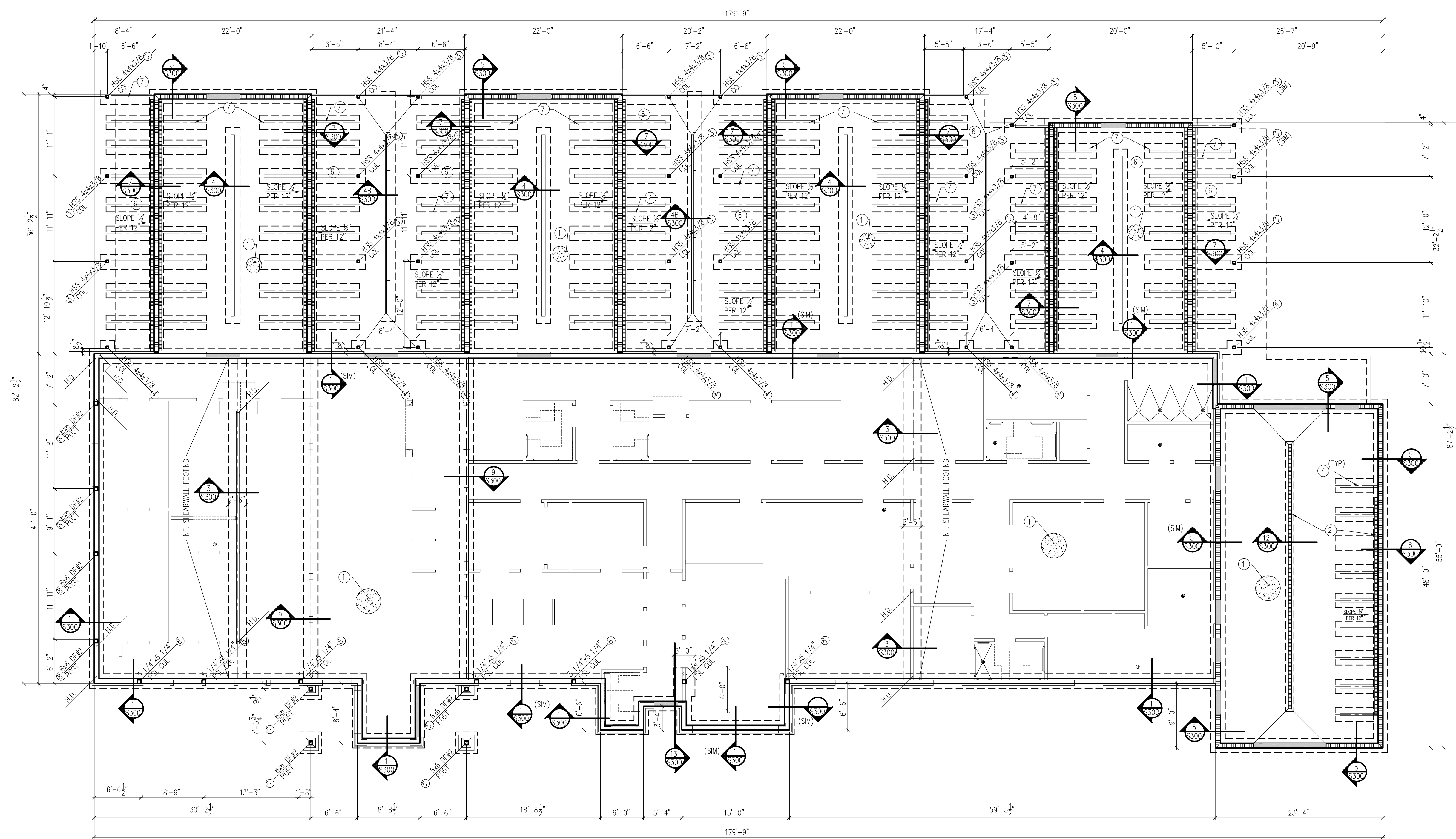
- REFER TO GENERAL NOTES SHEETS FOR ALL REQUIREMENTS.
- AT NON-BEARING PARTITION WALLS PROVIDE 0.145" DIAMETER SHOT-PINS OF SUFFICIENT LENGTH FOR 1-3/8" PENETRATION INTO CONCRETE SPACED AT NO MORE THAN 16" O.C. FROM SILL PLATE INTO SLAB AT BASE LEVEL.
- REFER TO MECH./ELEC. FOR ALL INSERTS AND DRAIN LOCATIONS.
- REFER TO ARCH. FOR LOCATION OF FLOOR RECESSES.
- REFER TO CIVIL PLANS FOR FOOTING STEP LOCATIONS.
- REFERENCE TYPICAL DETAILS ON SHEET S0.2 AS FOLLOWS:  
STANDARD HOOKS/BAR BENDS  
TYPICAL REINFORCING LAP SPLICE SCHEDULE  
TYPICAL ANCHOR BOLT EMBEDMENT SCHEDULE  
REINFORCEMENT MINIMUM COVER/TOLERANCES

**KEYED NOTES :**

- 4" CONC. SLAB-ON-GRADE W/ #4 @ 18" O.C. E.W. @ MID-DEPTH OVER PREPARED SUBGRADE PER SOILS REPORT.
- TRENCH DRAIN - SEE MECH & 12/S300
- HSS COL TO FOOTING - SEE 10/S300
- SPREAD FOOTING INTEGRAL W/ FOOTING - SEE 3A/S300
- EXTERIOR WOOD COL - SEE 11/S300
- EXTERIOR CONC. SLAB ON GRADE W/ TURNDOWN - SEE S0.2
- 6" CMU LOW WALL - SEE 4A/S300
- WOOD COL ON STEM (IN WALL) PROVIDE SIMPSON "ABA" POST BASE
- WOOD COL ON THICKENED FOOTING - SEE 13/S300

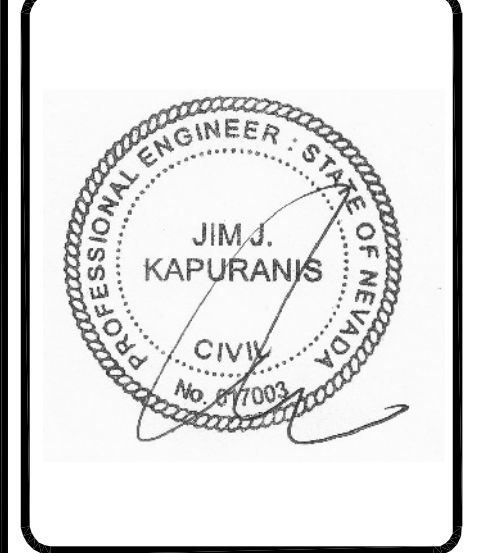
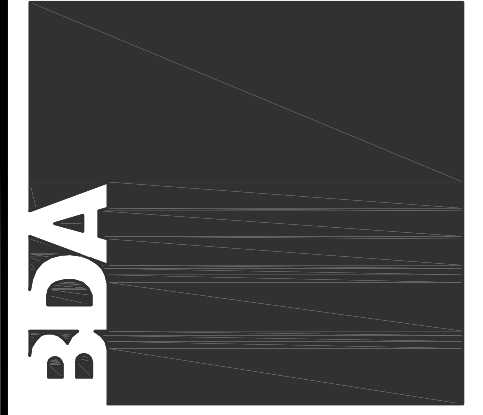
**LEGEND**

- DRAIN LOCATIONS - SEE ARCH. & MECH.
- CMU WALL
- DEPRESSED STEM @ DOOR OPENINGS  
-SEE 2/S300 FOR CONC. STEM  
-SEE 7/S300 FOR BLOCK STEM
- H.D. HOLDDOWN SEE SHEARWALL SCHED AND PLAN S201



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**FOUNDATION PLAN**

REV#	DATE	COMMENTS

**REVIEWS**

INITIALS	REV.
	BDA DSGN. REV.
	BDA TECH. REV.

CCAS  
PROJECT NO.: 1107  
DRAWN:  
DATE: 2/10/15

**S100**  
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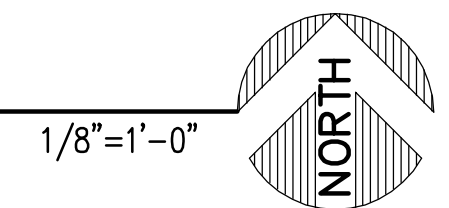
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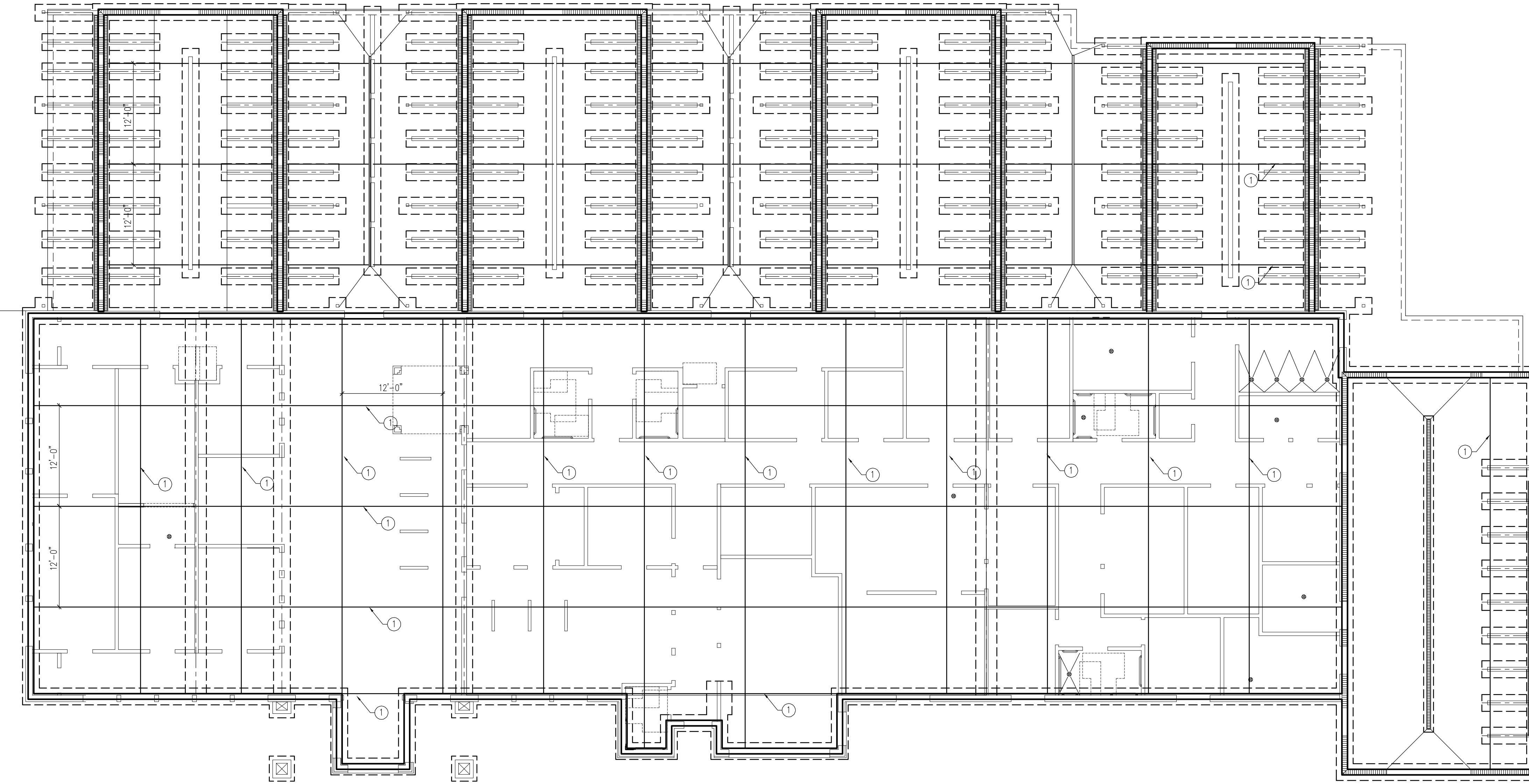
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February 27, 2015 - 12:21 PM  
P:\C2015\2015-562\Drawings\JKK Drawings\jbasaw.dwg  
Drawing Name:

**1 FOUNDATION PLAN**

REFER TO ARCH. DIMENSION PLAN FOR ALL DIMENSIONS NOT SHOWN. COORDINATE ALL ARCHITECTURAL DIMENSIONS/SLAB ELEVATIONS PRIOR TO ANY EXCAVATIONS. **DO NOT SCALE DRAWINGS.**

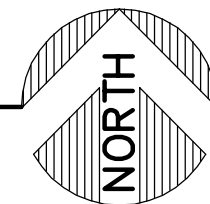


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1 FOUNDATION CONTROL JOINT PLAN

1/8"=1'-0"



**GENERAL NOTES :**

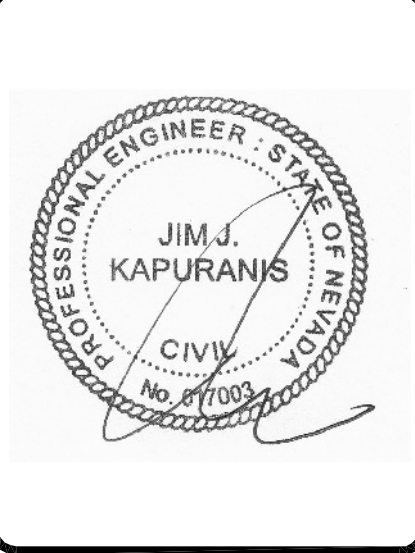
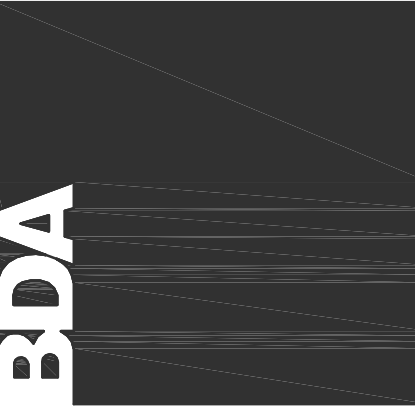
1. REFER TO GENERAL NOTES SHEETS FOR ALL REQUIREMENTS.
2. REFERENCE DETAILS ON SHEET S0.2A AS FOLLOWS: TYPICAL JOINT LAYOUT DETAILS  
 CONTROL/CONTRACTION JOINT DETAILS ISOLATION/EXPANSION JOINT DETAILS  
 CONSTRUCTION JOINT DETAILS TYPICAL REINFORCEMENT AT RE-ENTRANT CORNERS  
 TYPICAL REINFORCING AROUND SLAB-ON-GRADE OPENINGS

**KEYED NOTES :** ○

1. CONTROL JOINT – SEE S0.2A FOR DETAILS.

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FOUNDATION CONTROL JOINT PLAN		COMMENTS
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CCAS  
 PROJECT NO.: 1107  
 DRAWN:  
 DATE: 2/10/15  
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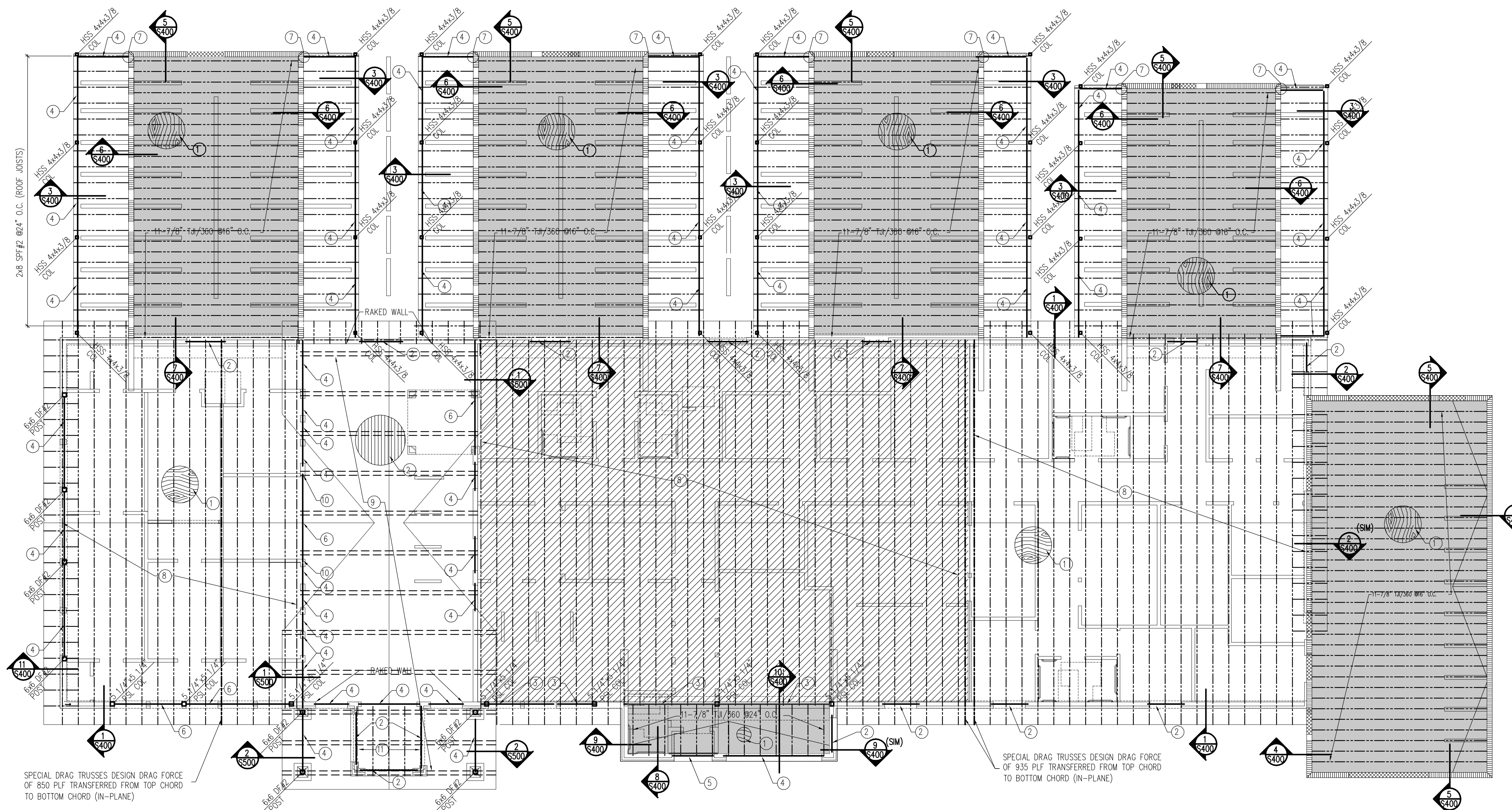
1. REFER TO GENERAL NOTES SHEETS FOR ALL REQUIREMENTS.
2. REFER TO ARCH. FOR ALL BEARING HEIGHTS.
3. CONNECTION HARDWARE TO BE SIMPSON U.O.N..
4. REFER TO SHEET S0.3A FOR WOOD COLUMN POST CAP BASE CONNECTIONS.
5. ALL TRUSSES ARE TO BE PRE-ENGINEERED TRUSSES

**KEYED NOTES : ○**

1. 3/8" APA RATED ROOF SHEATHING -NAIL W/10d AT 6" O.C.
2. EDGE/BOUNDARY U.O.N. ON SHEARWALL PLAN S201
3. (2)2x10 DF#2 BUILT-UP WOOD HEADER
4. 3/4"x14" PSL BEAM
5. (2)2x12 DF#2 BUILT-UP WOOD HEADER
6. (2)2x8 DF#2 BUILT-UP WOOD HEADER
7. 3/4"x11 1/8" PSL BEAM
8. SIMPSON M8HJ3.56 MASONRY HANGER
9. PRE-ENGINEERED WOOD TRUSSES @24" O.C.
10. BUILT-UP WOOD TRUSSES @60" O.C. -SEE S500
11. (3)2X BUILT-UP STUDS UNDER PSL BEARING -TYP
12. 9-1/2" T/J/210 ROOF JOISTS @24" O.C.

**LEGEND :**

- 8" CMU WALL
- MASONRY LINTEL
- FLAT ROOF AREA
- AREA OF BLOCKED DIAPHRAGM -SEE S201

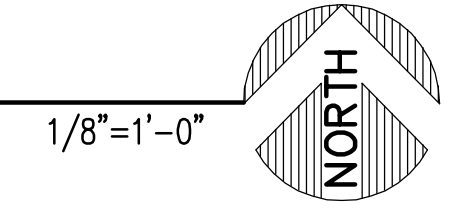


SPECIAL DRAG TRUSSES DESIGN DRAG FORCE OF 850 PLF TRANSFERRED FROM TOP CHORD TO BOTTOM CHORD (IN-PLANE)

SPECIAL DRAG TRUSSES DESIGN DRAG FORCE OF 935 PLF TRANSFERRED FROM TOP CHORD TO BOTTOM CHORD (IN-PLANE)

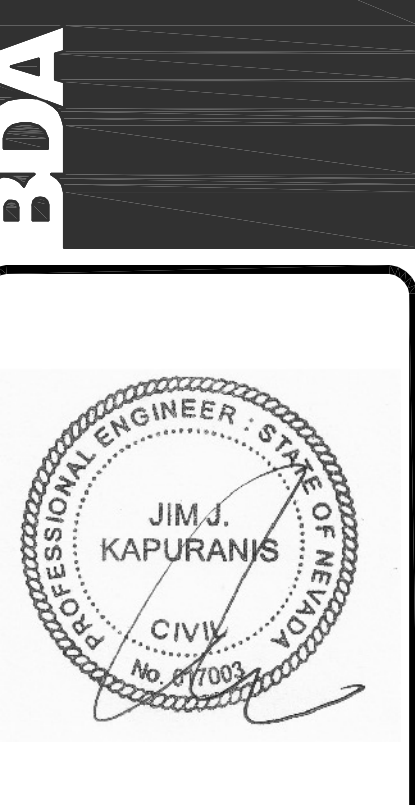
**1 S200 ROOF FRAMING PLAN**

REFER TO S0.3A FOR ALL WOOD COLUMN TO WOOD BEAM CONNECTIONS



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**ROOF FRAMING PLAN**

REV.#	DATE	COMMENTS

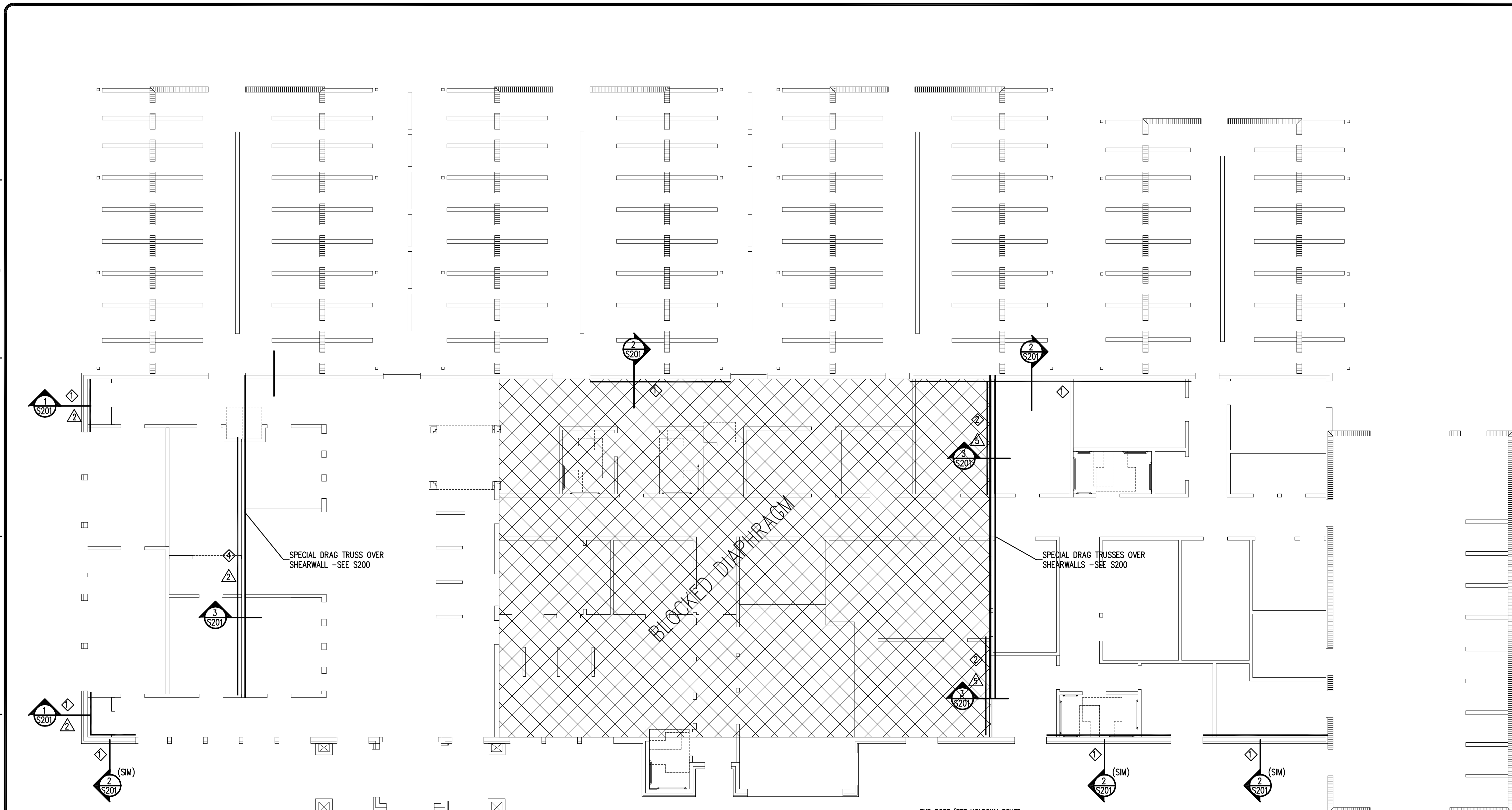
REVIEWS	
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PROJECT NO.: 1107  
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**1 SHEARWALL PLAN**

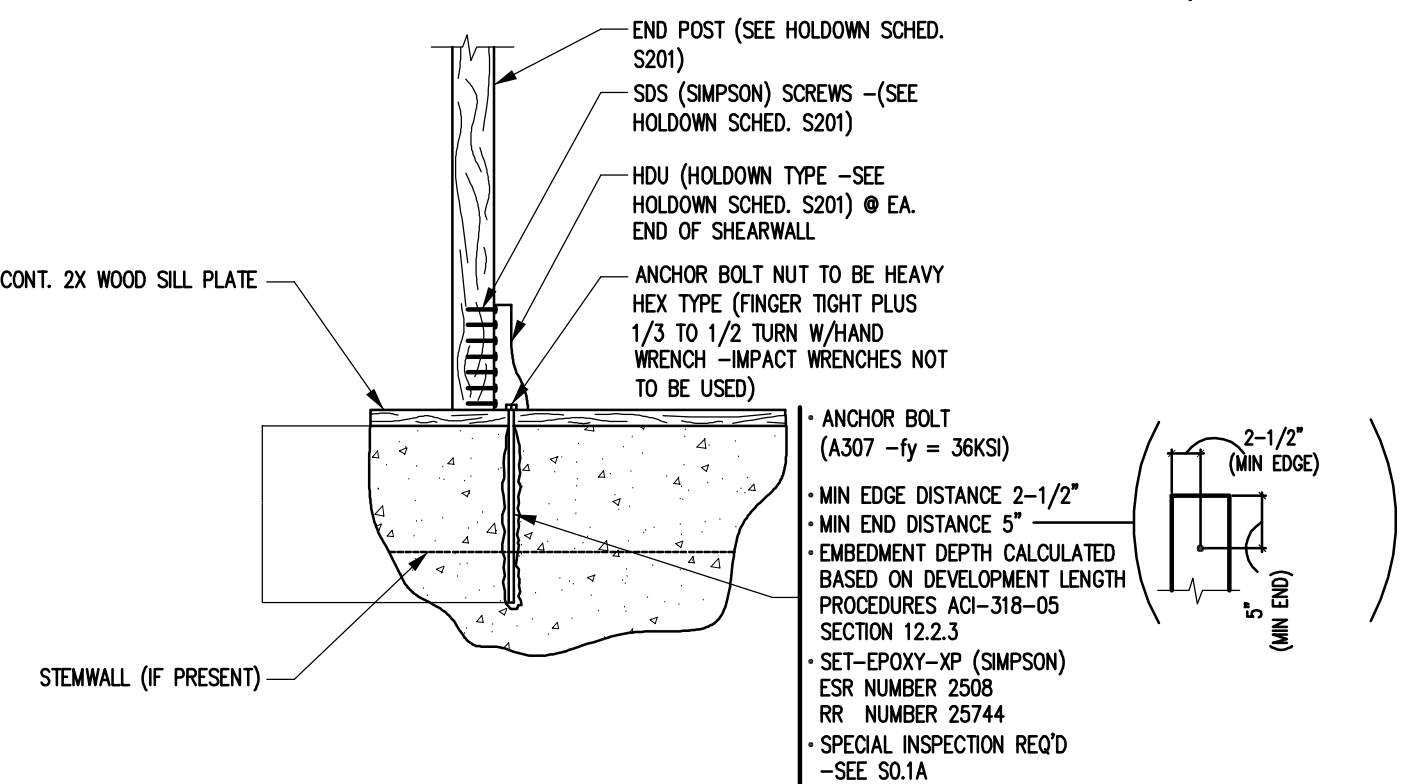
**GENERAL NOTES :**

- REFER TO GENERAL NOTES SHEETS FOR ALL REQUIREMENTS.
- REFER TO ARCH. FOR ALL BEARING HEIGHTS.
- CONNECTION HARDWARE TO BE SIMPSON U.O.N.
- REFER TO SHEET S0.3A FOR WOOD COLUMN POST CAP BASE CONNECTIONS.
- ALL TRUSSES ARE TO BE PRE-ENGINEERED TRUSSES

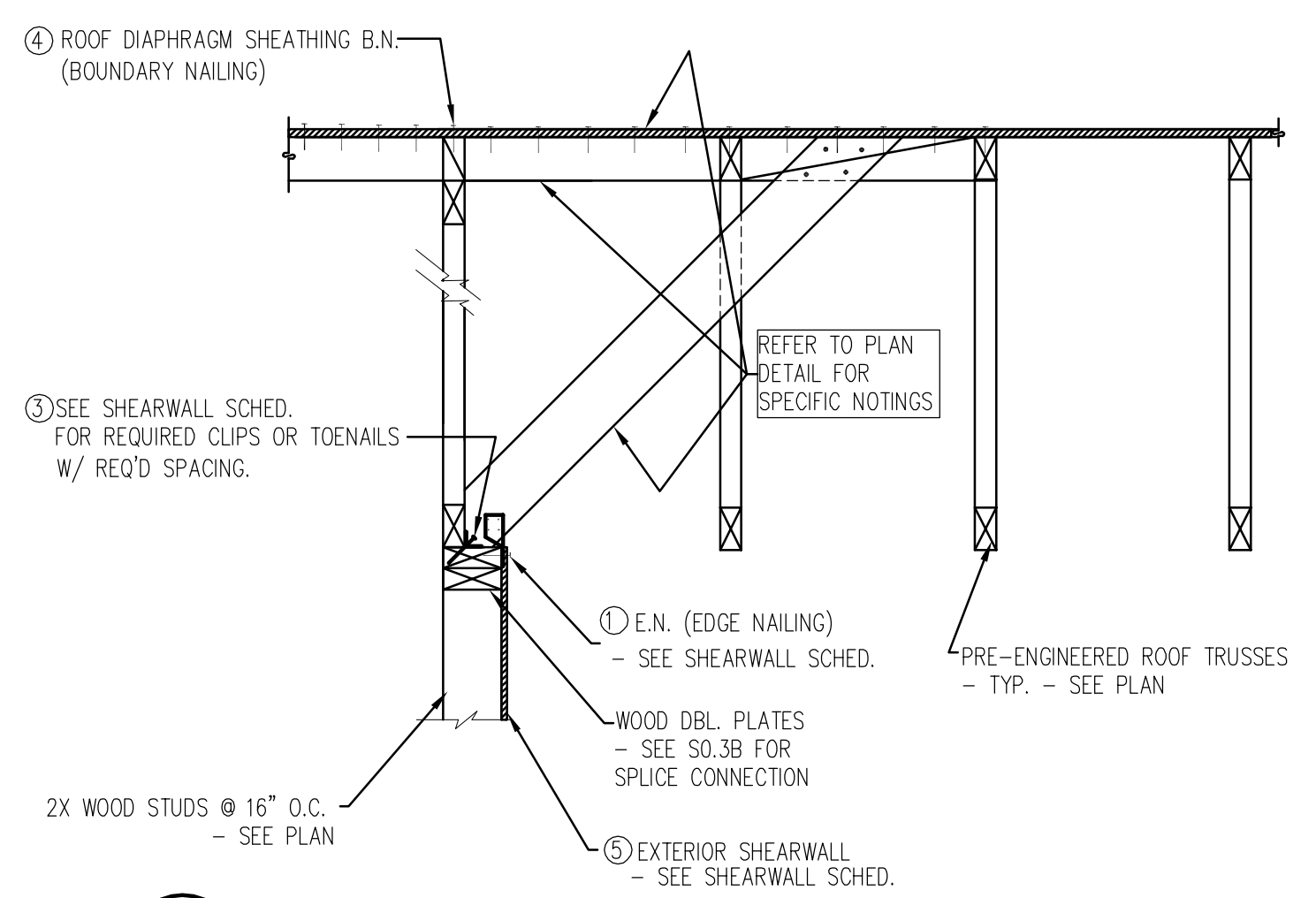
**LEGEND :**

- WOOD STUD (METAL STUD) SHEARWALL SHEATHING REQUIREMENTS - SEE SCHED. (THIS SHEET) AND SHEET S0.3D FOR GENERAL DETAILS AND REQUIREMENTS
- HOLDOWN TYPE - SEE SCHED. (THIS SHEET) AND SHEET S0.3D FOR DETAILS
- LATERAL FORCE RESISTING ELEMENT LOCATION AND LENGTH

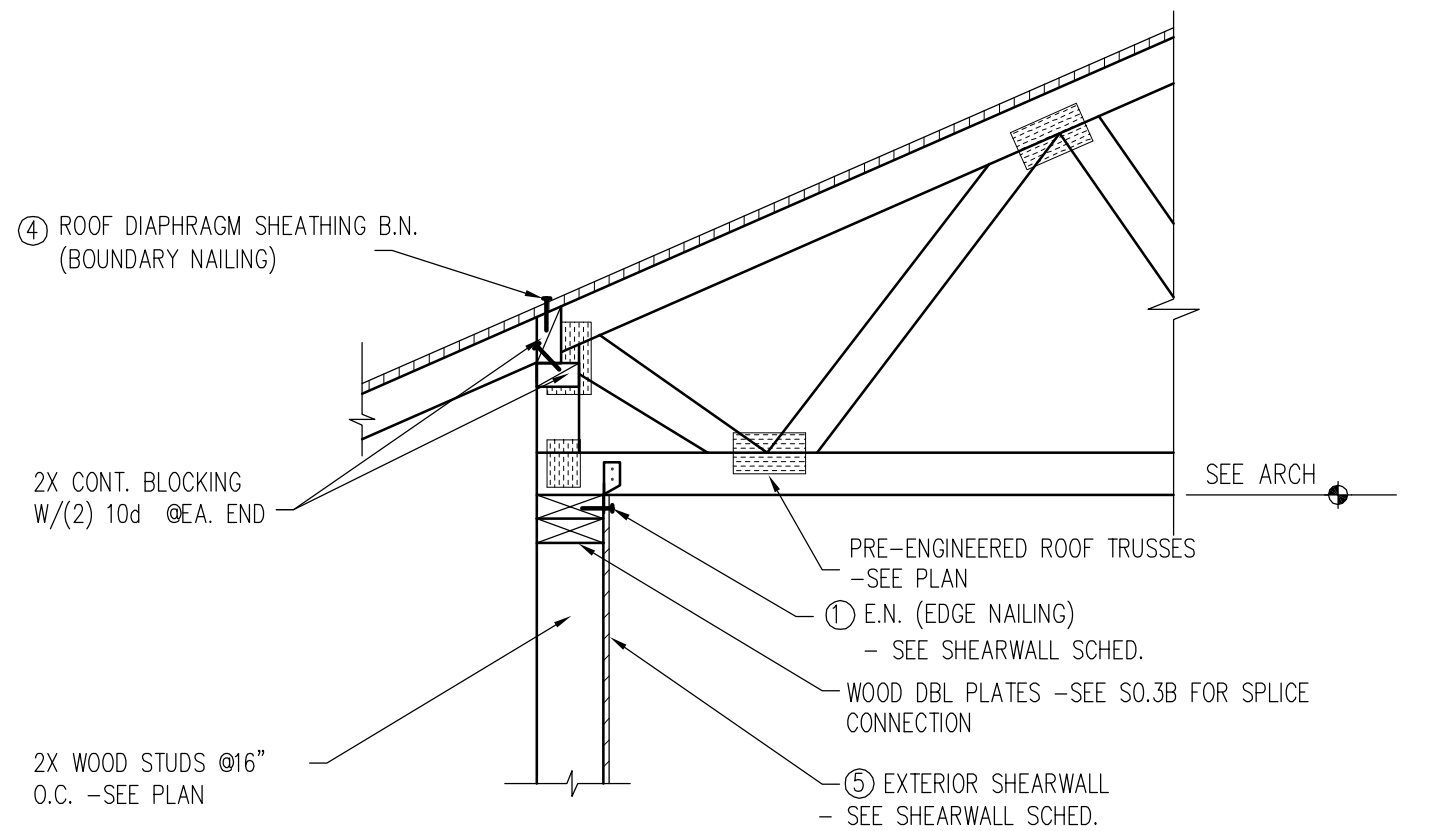
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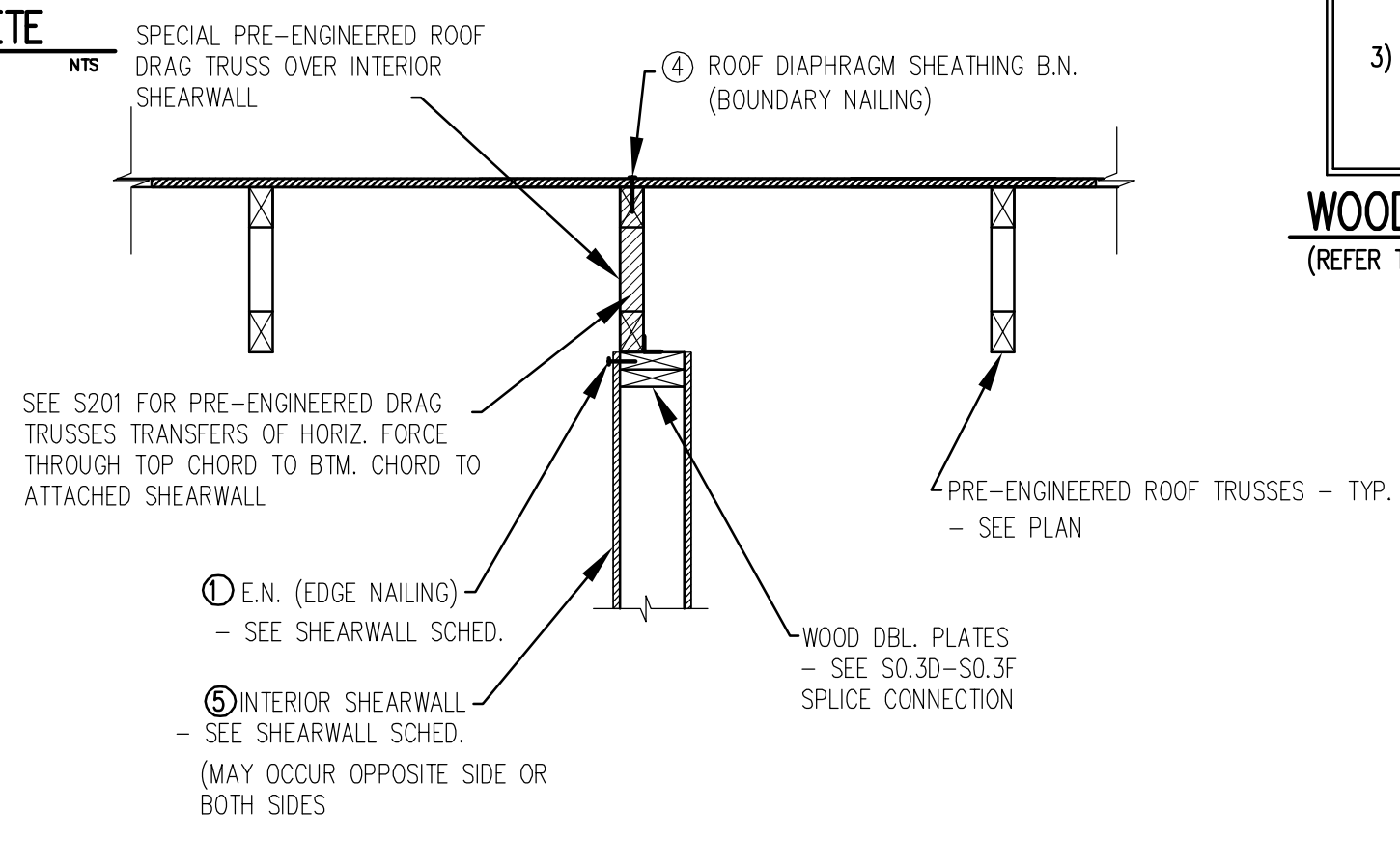
**DRILLED AND EPOXIED HOLDOWN ANCHOR SYSTEM IN CONCRETE**



**1 SECTION**



**2 SECTION**



**3 SECTION**

(Holdown Schedule)  
(Simpson Strong-Tie Holdown to solid concrete foundation)

HD Δ	Type	End Post	Fastener to Stud	*Anchor Bolts (A307) Simpson "SET" SYSTEM	**Cap (Kips)
1	HDU2	(2) 2x	6-SDS 1/4"x2-1/2"	5/8" Ø EMBED = 12"	3.1
2	HDU4	(2) 2x	10-SDS 1/4"x2-1/2"	5/8" Ø EMBED = 12"	4.6
3	HDU5	(2) 2x	14-SDS 1/4"x2-1/2"	5/8" Ø EMBED = 12"	5.6
4	HDU8	6x	20-SDS 1/4"x2-1/2"	7/8" Ø EMBED = 12"	7.9
5	HDU11	6x	30-SDS 1/4"x2-1/2"	1" Ø EMBED = 20"	9.6

\*Set-Epoxy (Simpson Anchor System)  
\*\*Capacity based on lesser allowable value of holdown hardware, A307 Anchor Bolt embedment depth (based on development length procedures (ACI-318-12.2.3) or epoxy bond strength)

- NOTES :
- Values are based on DF#2 or Southern Pine species and post type. If other species is used, notify engineer for holdown capacity reductions and re-calculations.
  - $f_c = 3,000$  psi (MIN)

**HOLDOWN SCHEDULE AT FOUNDATION LEVEL**  
(REFER TO SHEARWALL PLANS)

(Roof Diaphragm Schedule)  
(5/8" RATED Sheathing w/ 10d Common)

ID	Diaphragm Case	Brdy (in o.c.)	Edge (in o.c.)	Allowable Shear (Kif)	Notes
	BLOCKED	2-1/2	2-1/2	640	1
	UNBLOCKED	6	6	285	1

- TABLE LEGEND:  
 = TAGGED NOTES ON FRAMING SECTIONS BELOW  
 Kif = KIPS/FT  
 o.c. = ON CENTER SPACING

- (Diaphragm Notes)  
 GENERAL NOTES  
 a) Fasteners shall be driven flush with surface of sheathing.  
 b) Space nails @ 12 in o.c. along intermediate framing members.  
 c) Refer to Diaphragm Nailing Plan-This sheet
- SPECIAL NOTES (apply to diaphragms specifically noted)  
 1) APA Rated Sheathing, STURD-I-FLOOR EXP1/EXP2/EXT or C-C/C-D Plywood.  
 WAFFERBOARD AND ORIENTED STRAND BOARD CONFORMING TO NER-108 AND PRODUCT STANDARD 2-92, AND WITH THE SAME EXPOSURE DURABILITY CLASSIFICATION, NOMINAL THICKNESS AND SPAN/INDEX RATIO MAY BE SUBSTITUTED FOR PLYWOOD ONLY IF APPROVED BY THE STRUCTURAL ENGINEER.

**WOOD HORIZONTAL DIAPHRAGM SCHEDULE**  
(REFER TO SHEARWALL PLANS)

ALLOW SHEAR VALUES ARE ONLY BASED ON SOUTHERN PINE OR DOUG FIR SPECIES. IF OTHER SPECIES OF WOOD IS PROPOSED, THE ENGINEER MUST BE NOTIFIED FOR RECALCULATION FOR REDUCED ALLOW. SHEAR VALUES.

(ShearWall Schedule - 16" O.C. MAX. SPACING OF STUDS)

SW Δ	See Shearwall Plan	① SHEARWALL Sheathing (Thick side)	② Edge Nailing (in o.c.)	Anchor Bolts @ Fnd. (in o.c.)	③ Bottom Plate (in o.c.)	④ Rim/Blk to Blk Top plates (in o.c.)	Allow Shear (Kif)	Notes
1		SURE-BOARD SERIES 200-W	10d @ 2	5/8" Ø 40	16d @ 5	16d @ 3T	657	
2		SURE-BOARD SERIES 200-W BOTH SIDES	10d @ 2	5/8" Ø 16	2-16d @ 3	(2)A3509	0.92	1,2,4

- TABLE LEGEND:  
 = TOENAIL  
 = TAGGED NOTES ON FRAMING SECTIONS BELOW  
 Kif = KIPS/FT  
 o.c. = ON CENTER SPACING

- (SHEARWALL Notes)  
 GENERAL NOTES (apply to all SHEARWALLS)  
 a) Space nails @ 12 in o.c. along intermediate framing members.  
 b) Block all panel edges with minimum 2x blocking (unless 3X blocking is req'd).  
 c) Apply nailing to all studs, top and bottom plates and blocking.  
 d) Framing to be a maximum of 16 in o.c.  
 e) Fasteners shall be driven flush with surface of sheathing.  
 f) Panels may be installed either Horiz. or Vert. for plywood. Horiz. only if "OSB" is used.  
 g) All nails to be common type.  
 h) Oriented Strand Structural Panels (OSB) may be substituted for plywood ONLY conforming to NER-180 product standard 2-92 and ONLY with panels applied with long dimension across studs.  
 i) 1-5/8" min nail penetration to framing members.
- SPECIAL NOTES FOR SHEARWALLS (apply to walls specifically noted)  
 1) SURE-BOARD SERIES 200W  
 2) Provide 3x's at adjoining panel edges w/nails staggered or (2) 2x studs edge nailed together per schedule. At foundation level, provide a 3x sill plate or (2) 2x single plates edge nailed together per schedule (staggered).  
 3) Provide 3-inch nominal or thicker blocking beneath bottom plate for full length of shearwall.

**WOOD STUD SHEARWALL SCHEDULE**  
(REFER TO SHEARWALL PLANS)

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**SHEARWALL PLAN**

REV.#	DATE	COMMENTS

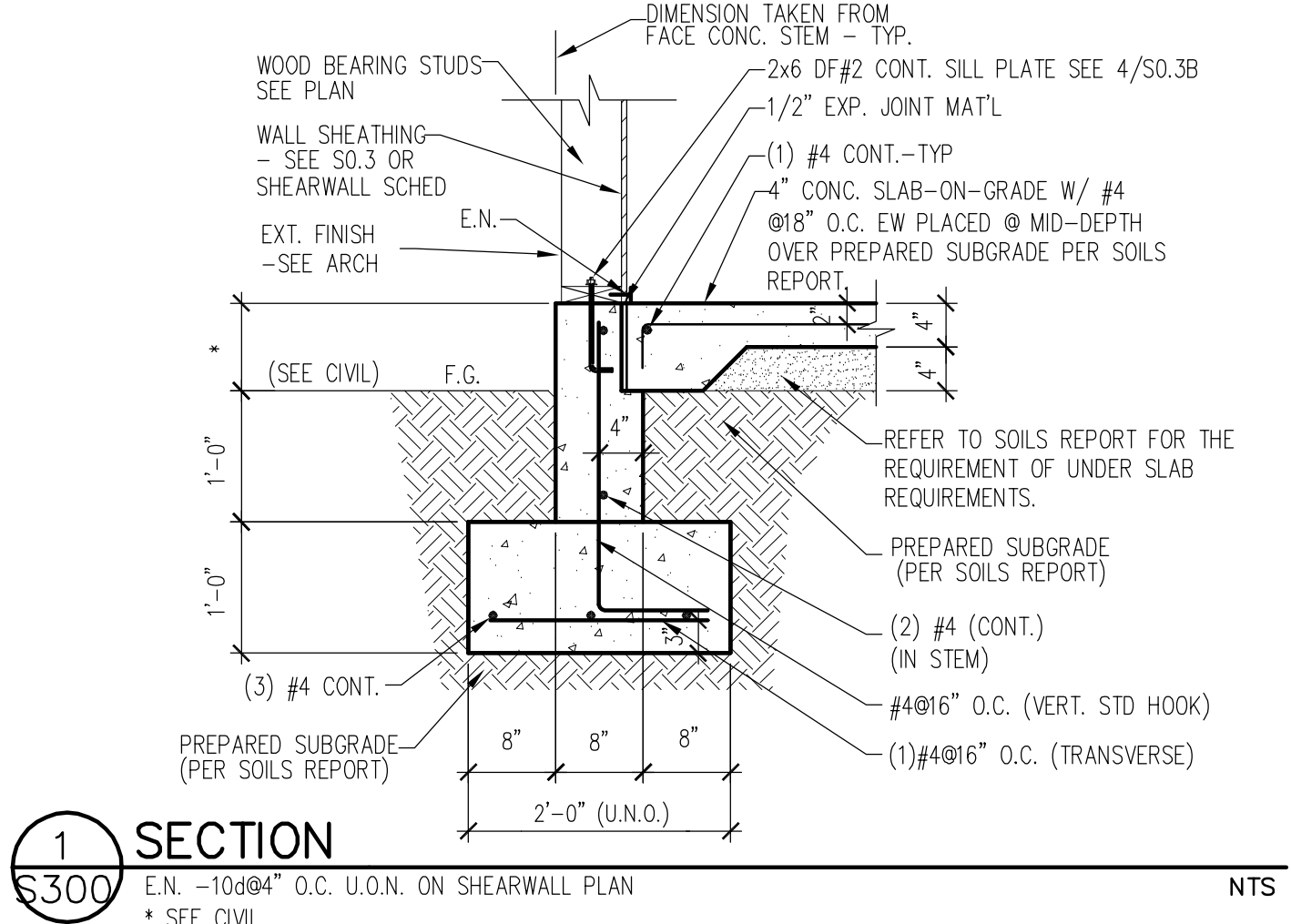
REVIEWS

INITIALS	REVISION
	BDA DSGN. REV.
	BDA TECH REV.

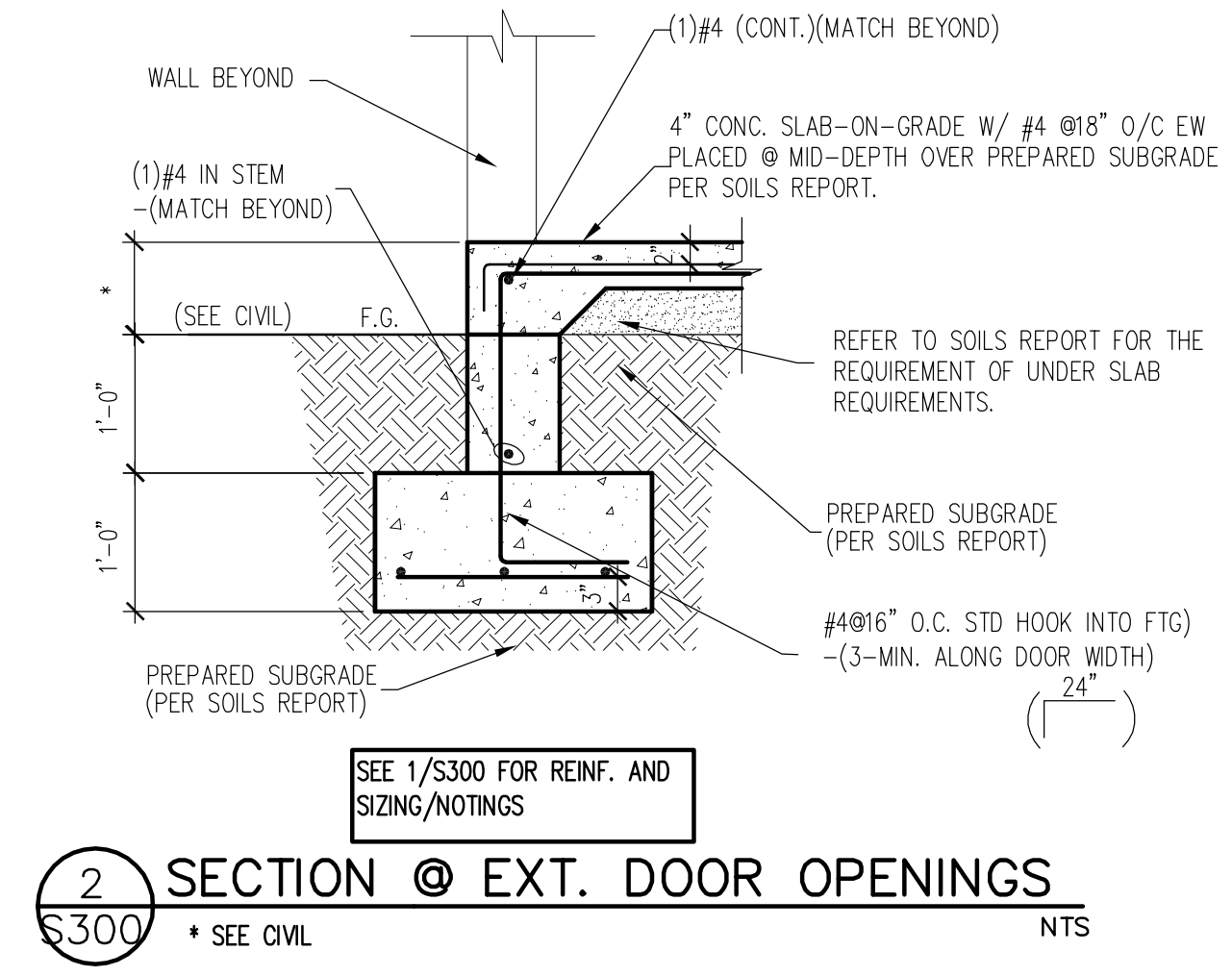
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 PROJECT NO.: 1107  
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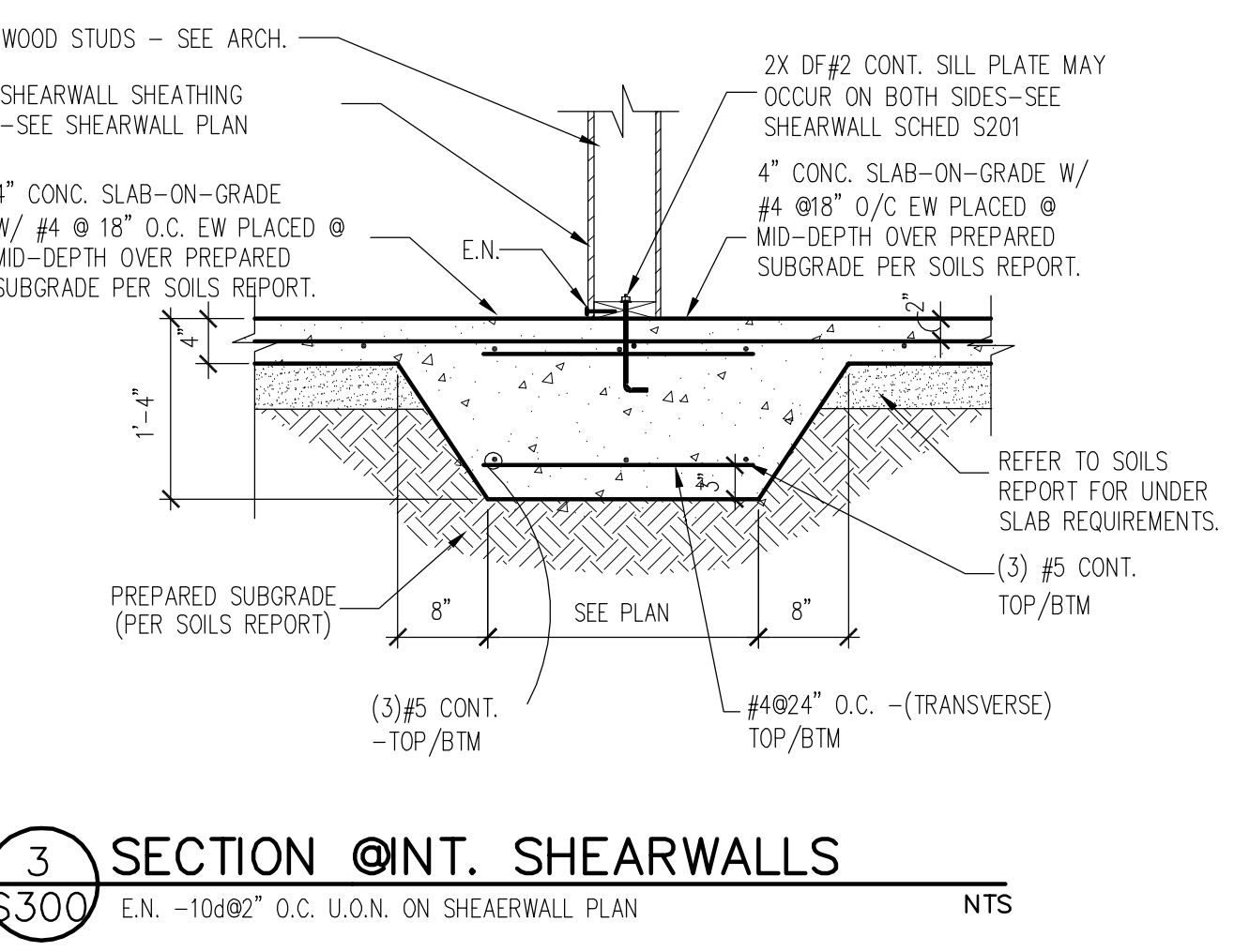
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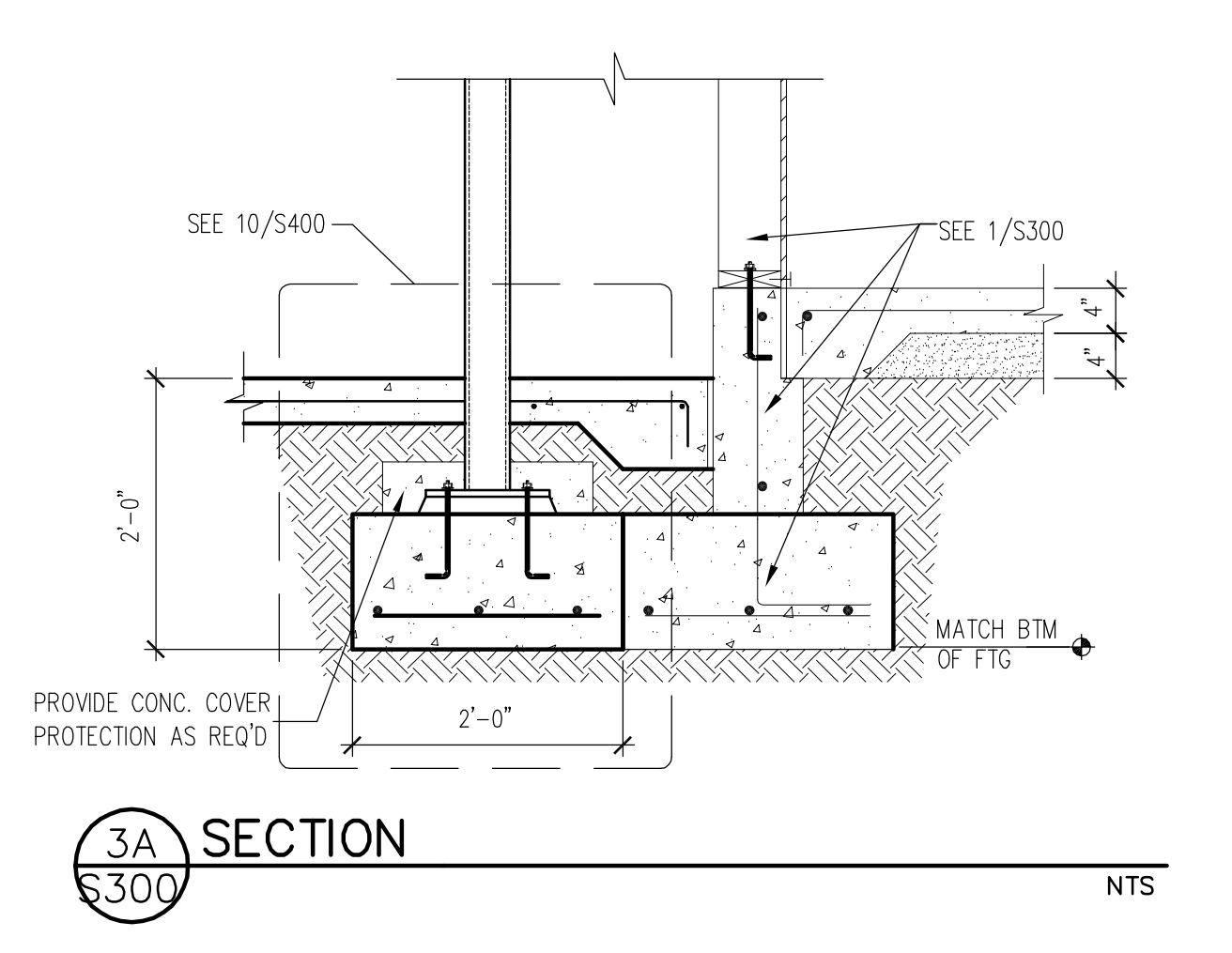
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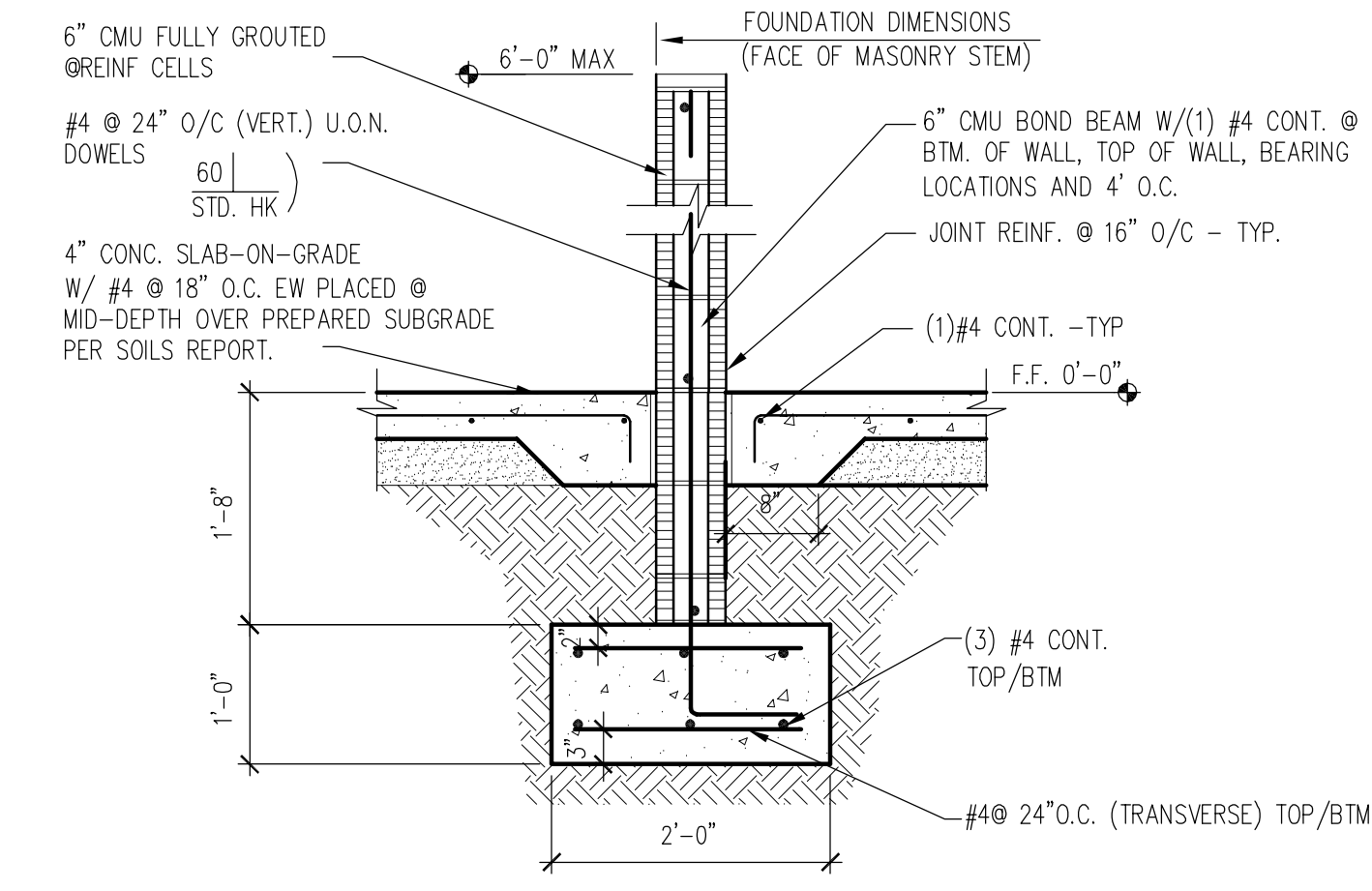
2 SECTION @ EXT. DOOR OPENINGS  
 5300 \* SEE CIVIL NTS



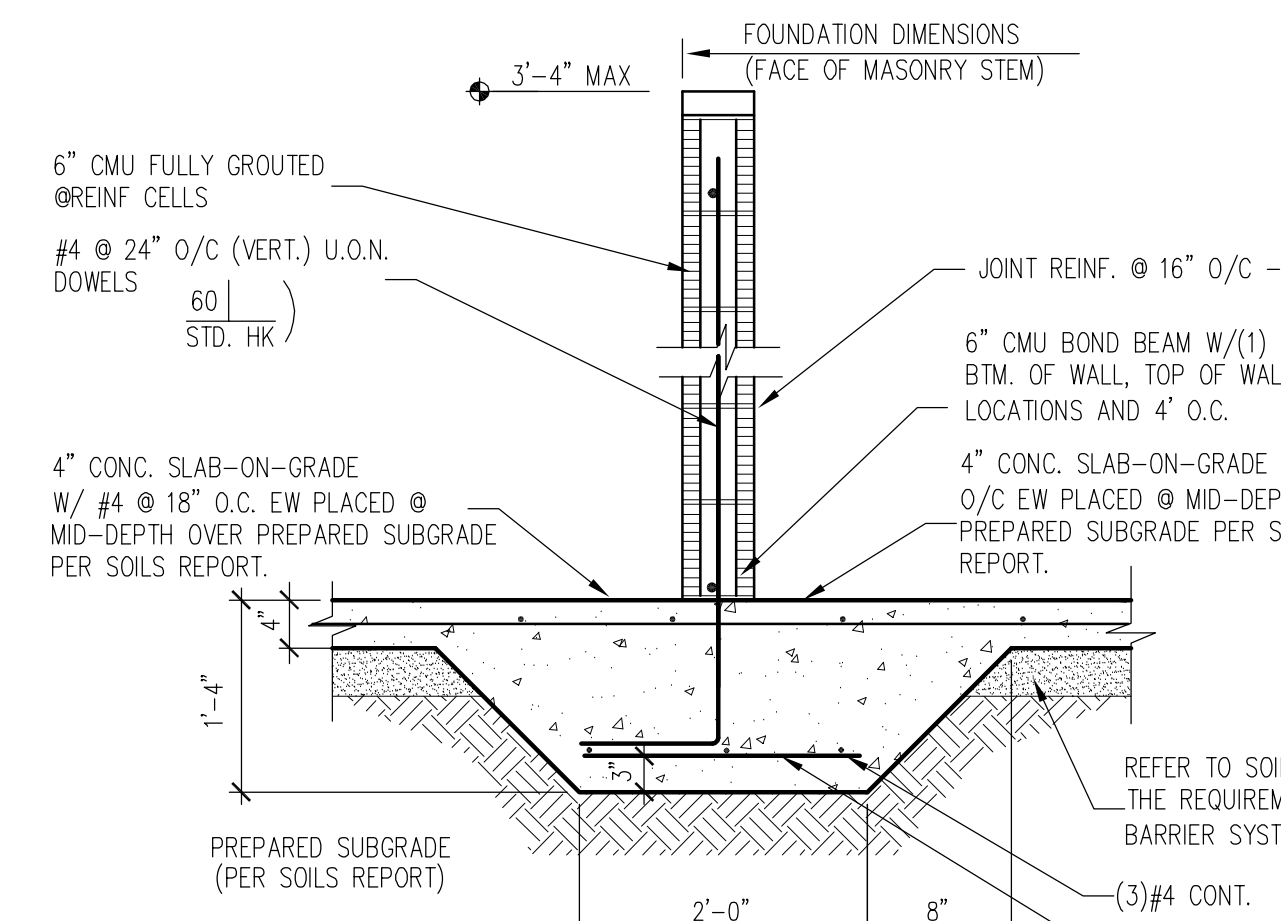
3 SECTION @INT. SHEARWALLS  
 5300 E.N. -10#4\"/>



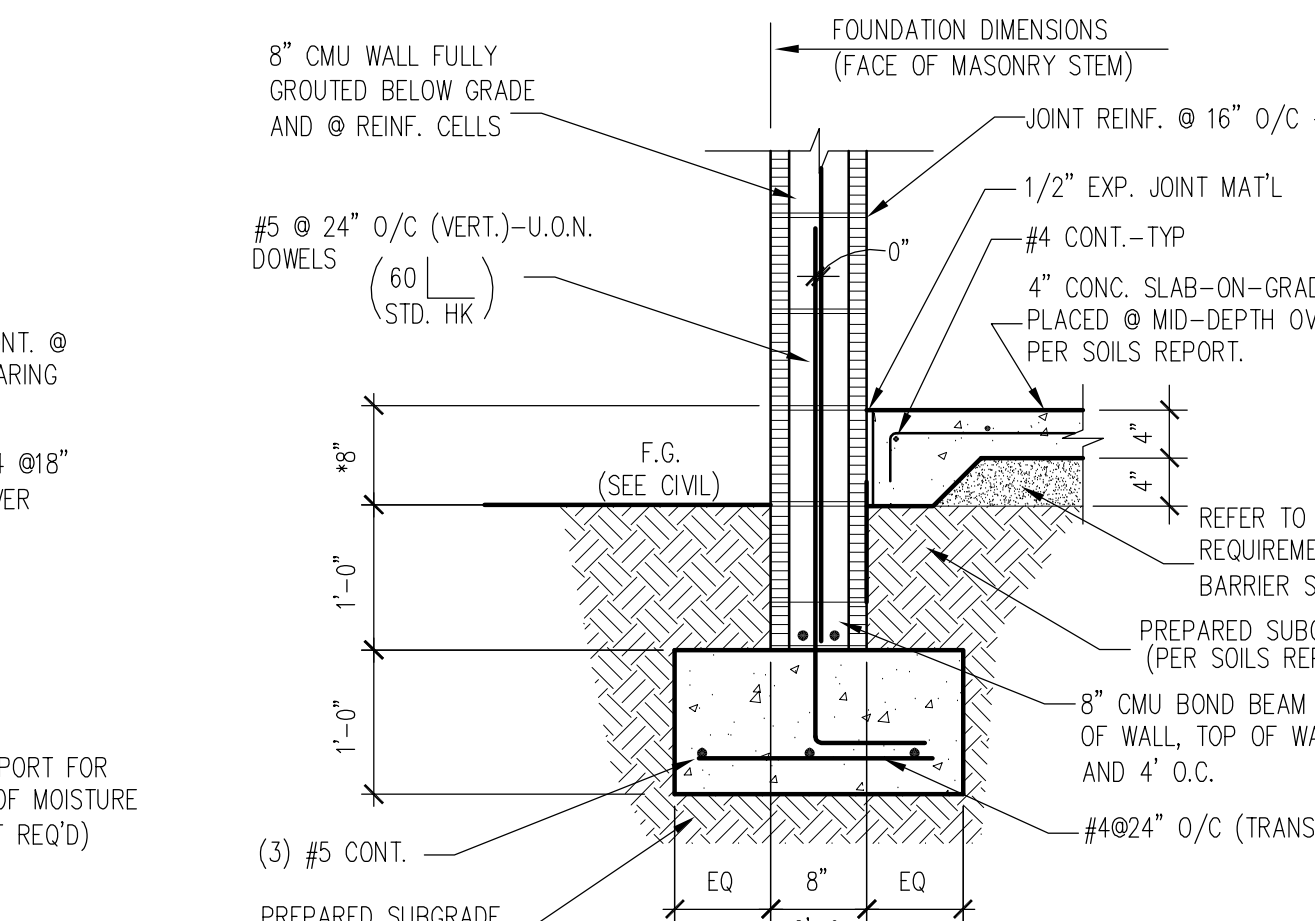
3A SECTION  
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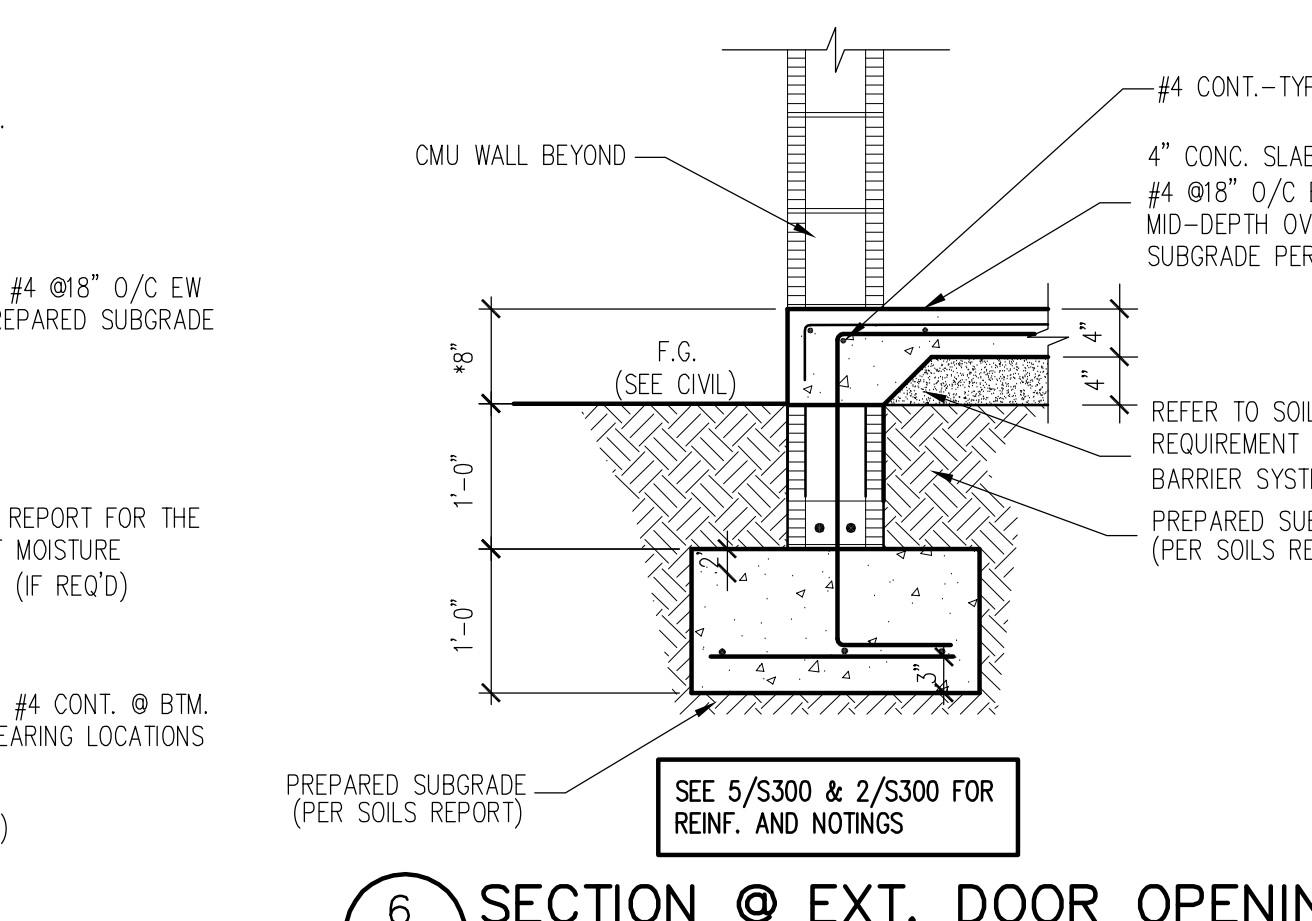
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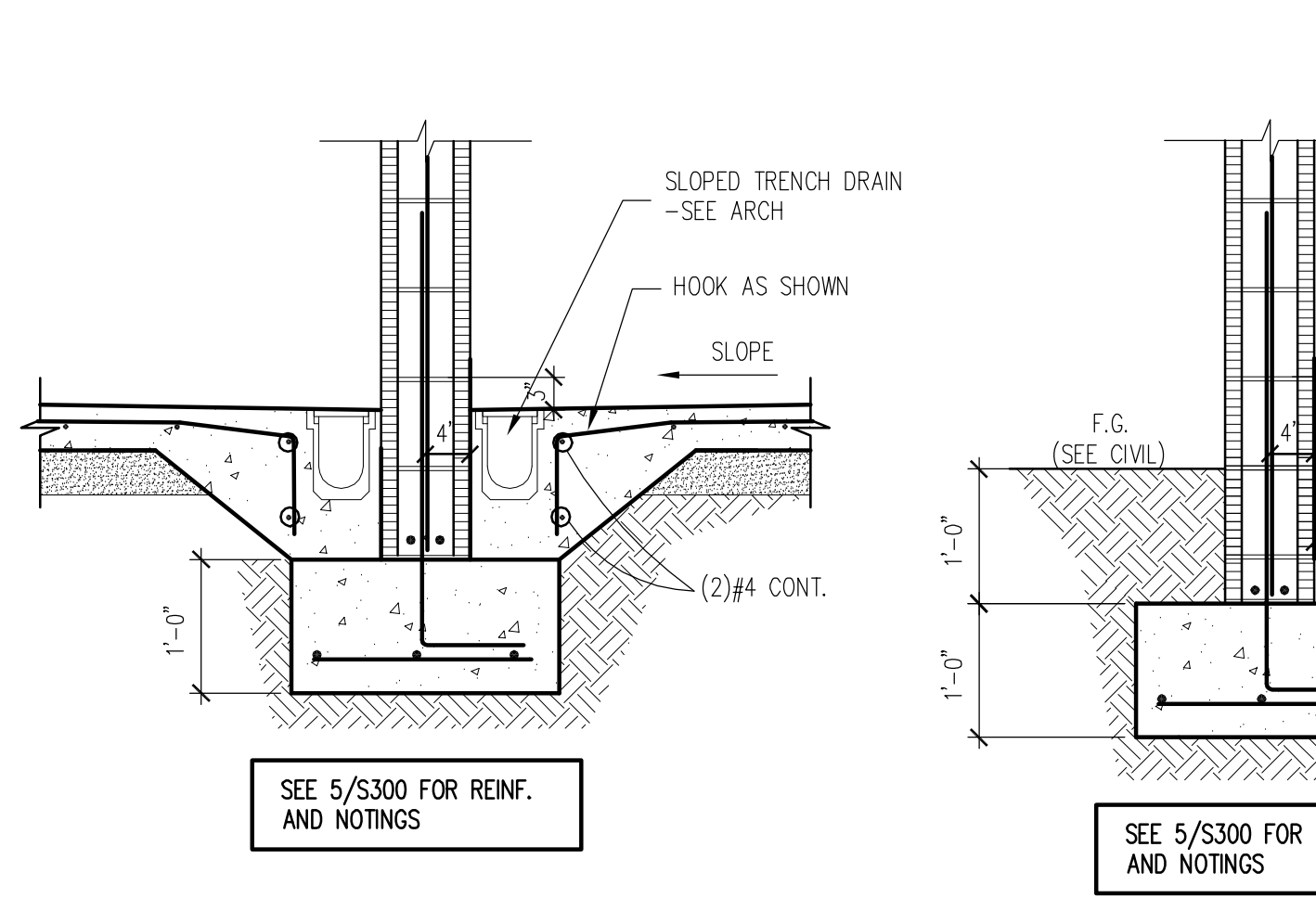
4 SECTION @INTERIOR  
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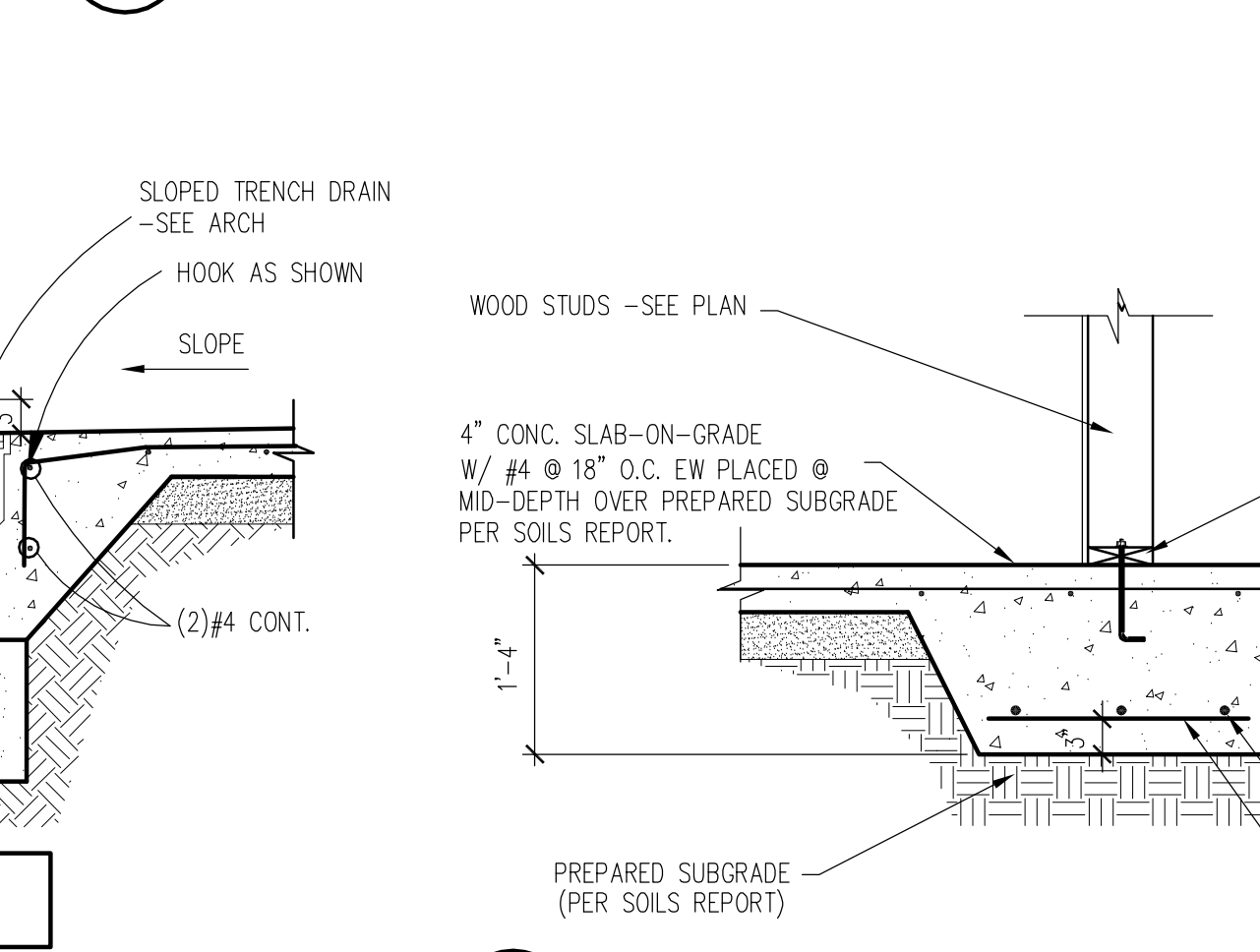
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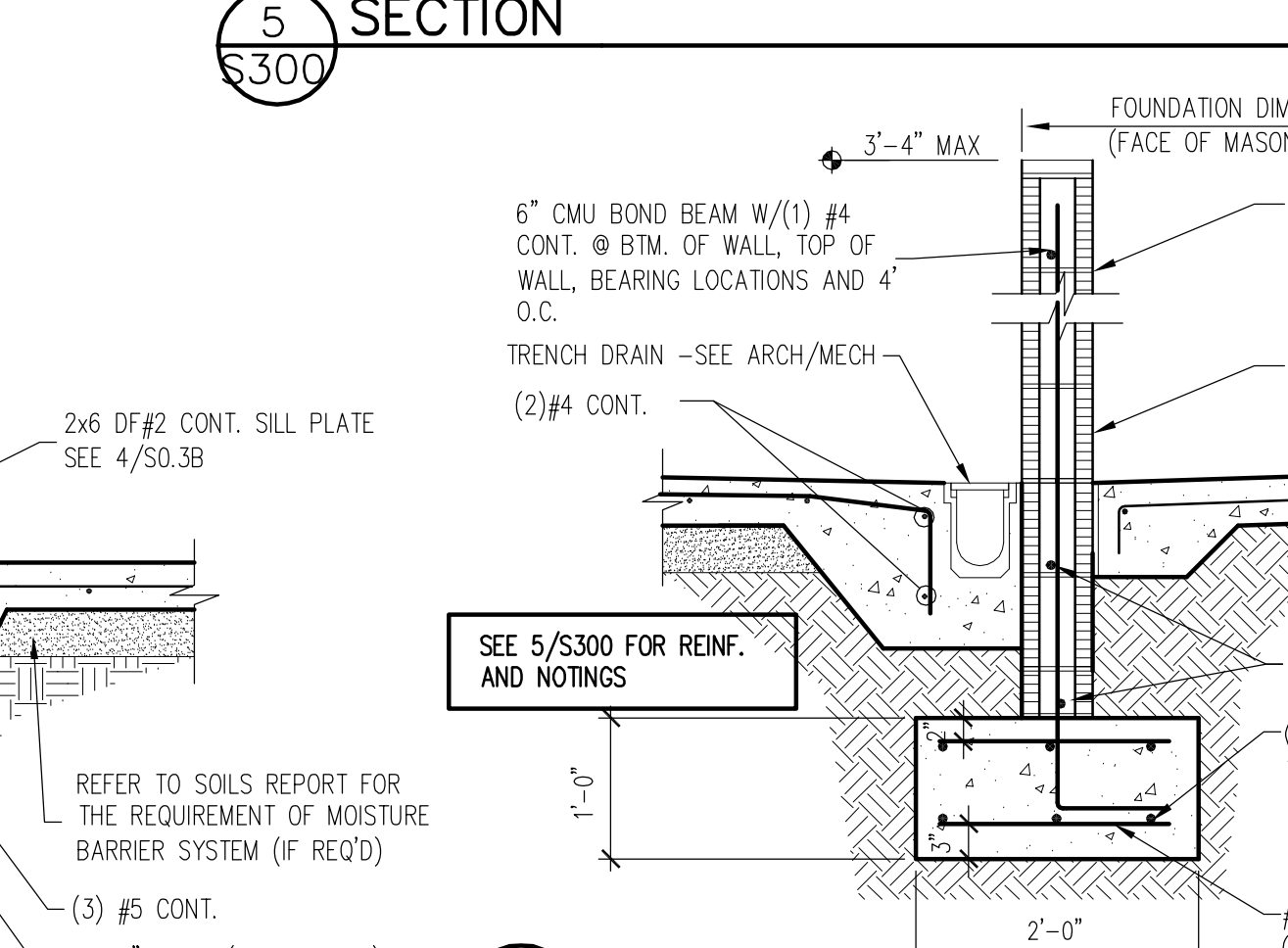
6 SECTION @ EXT. DOOR OPENINGS  
 5300 NTS



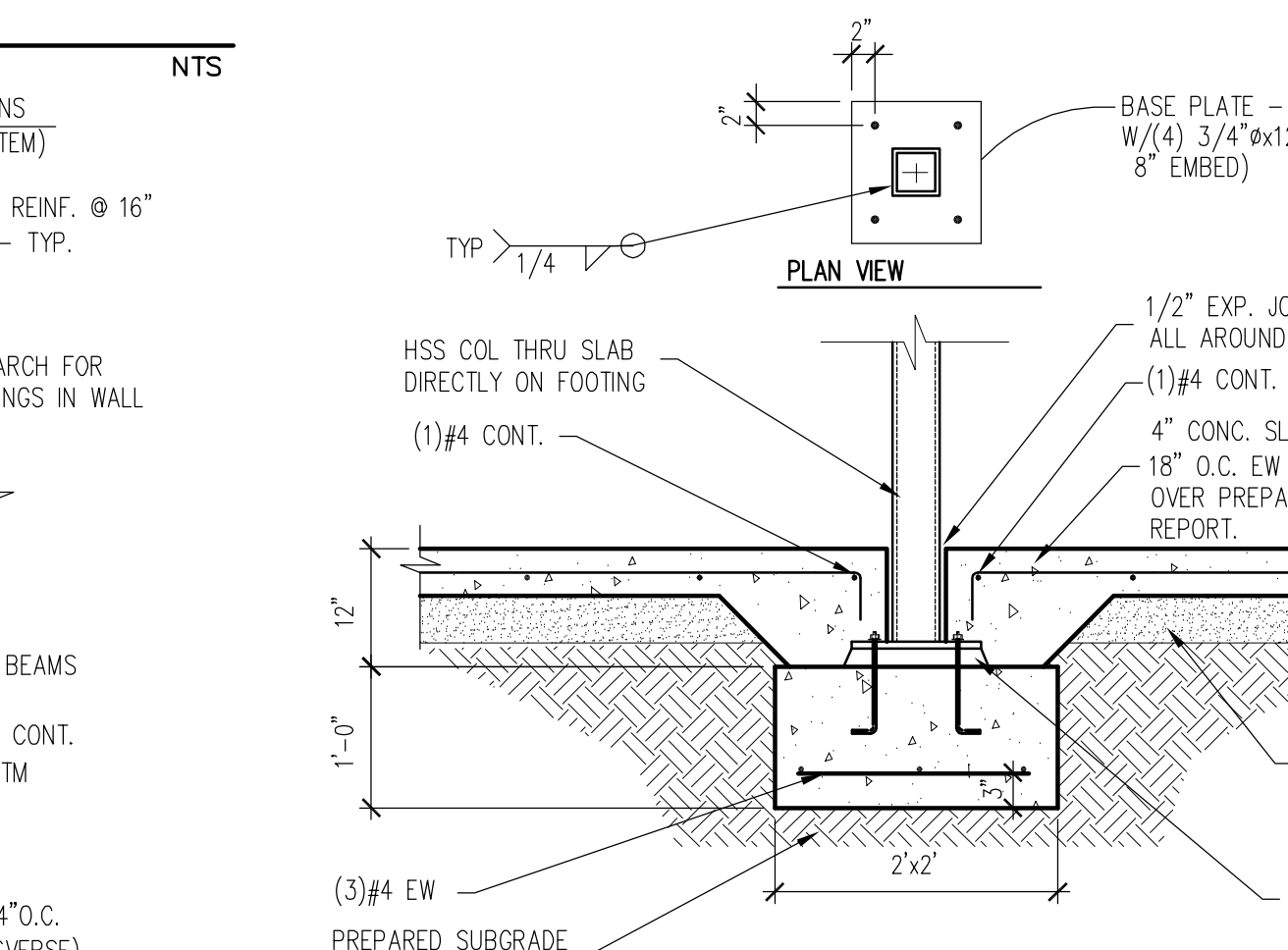
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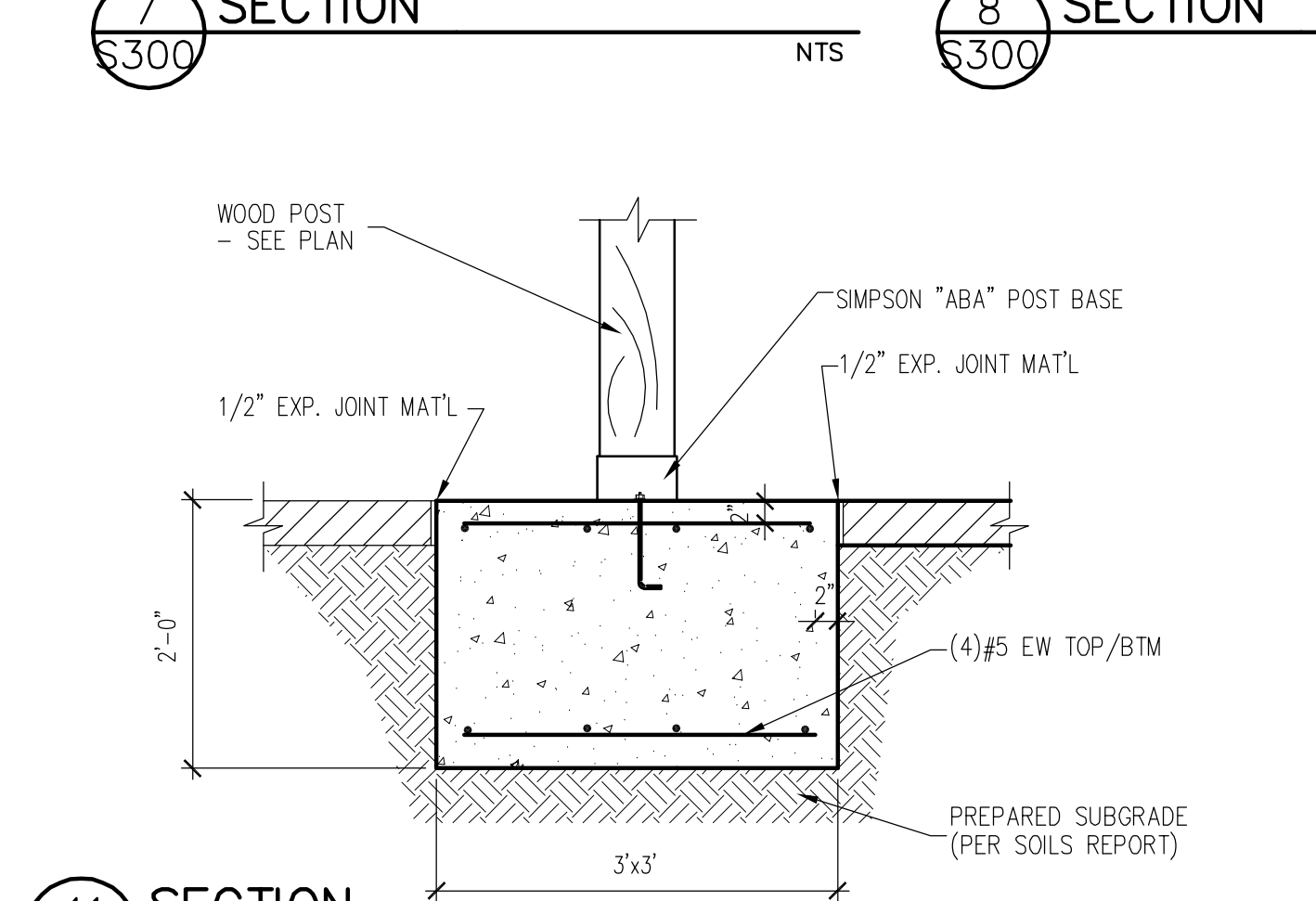
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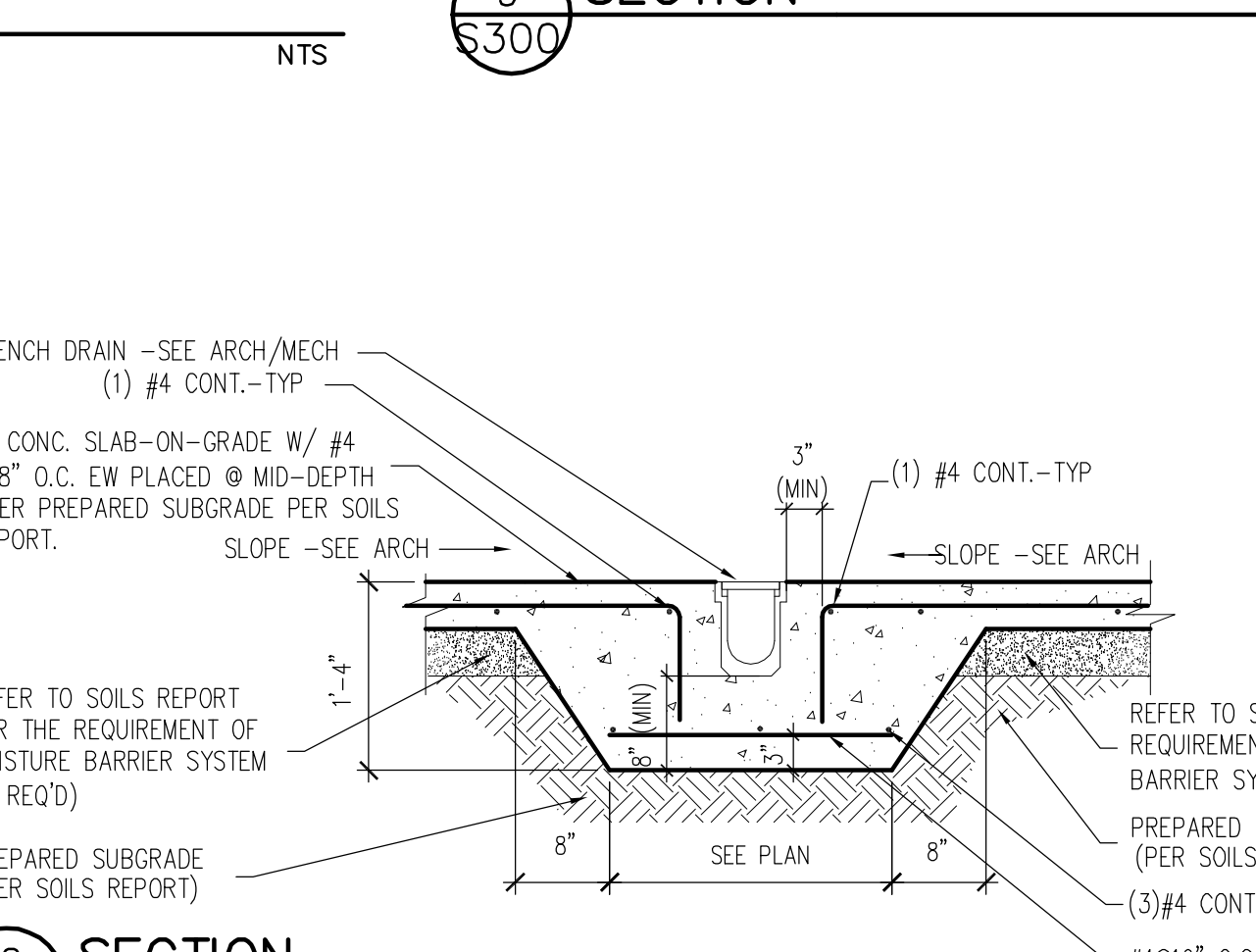
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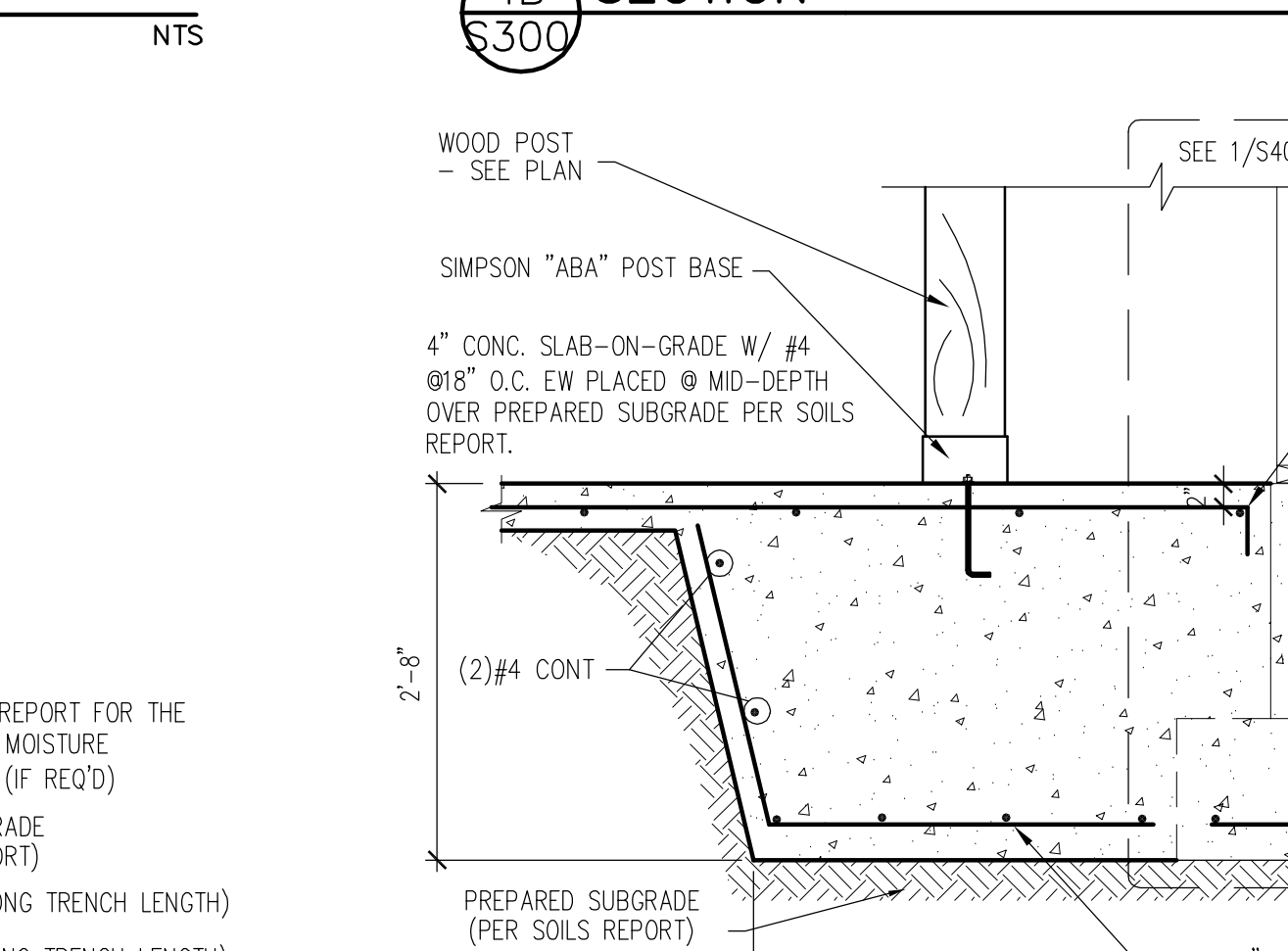
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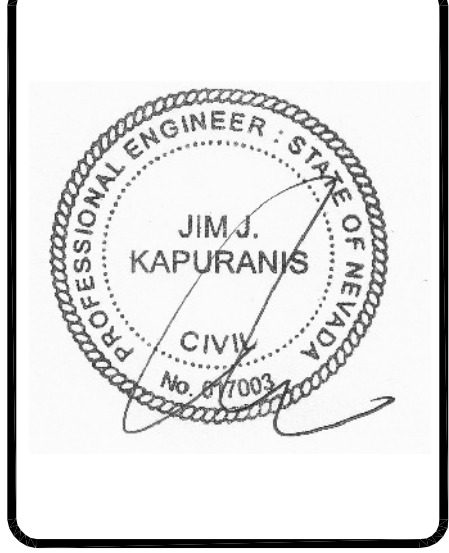
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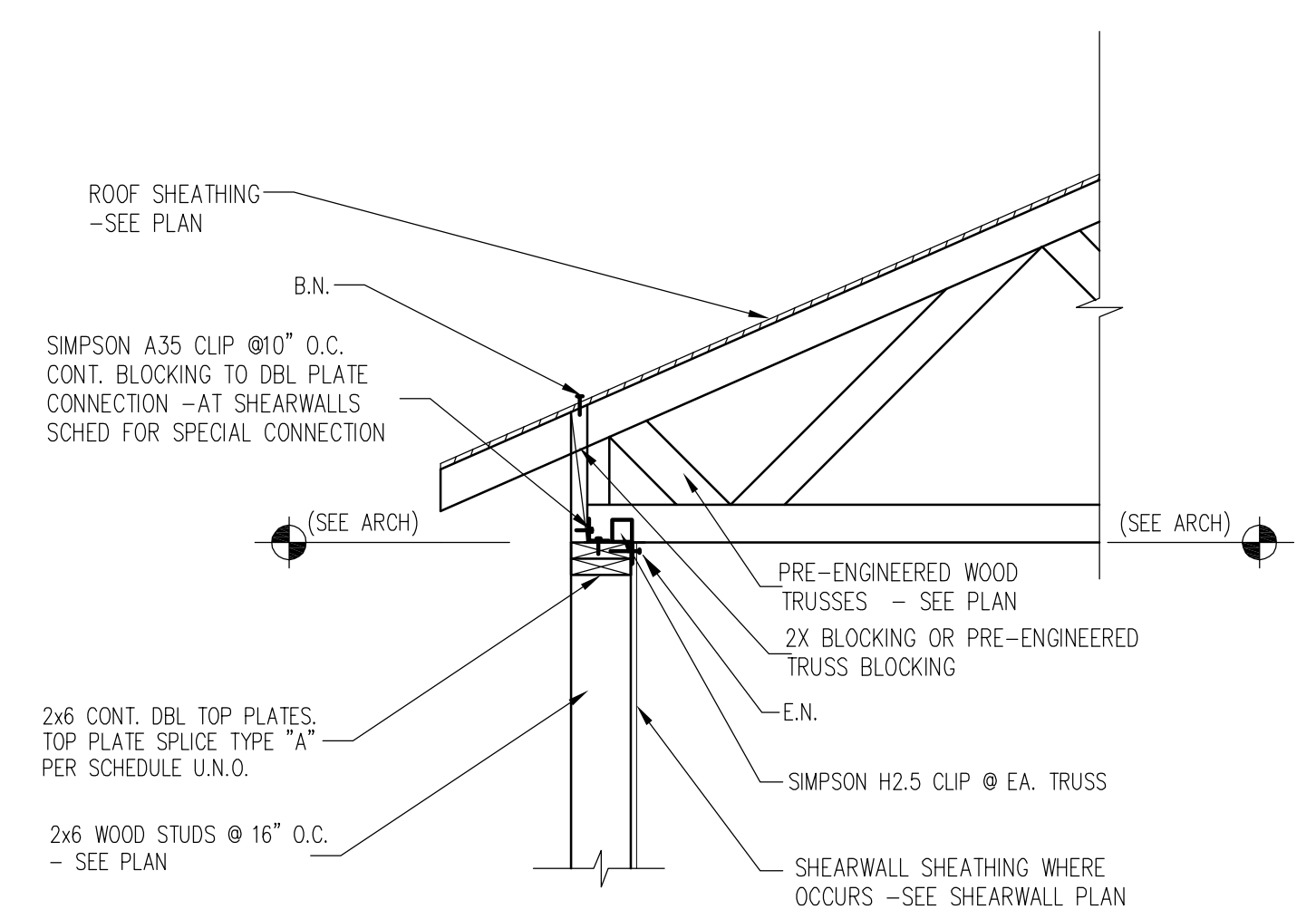
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REV.#	DATE	COMMENTS

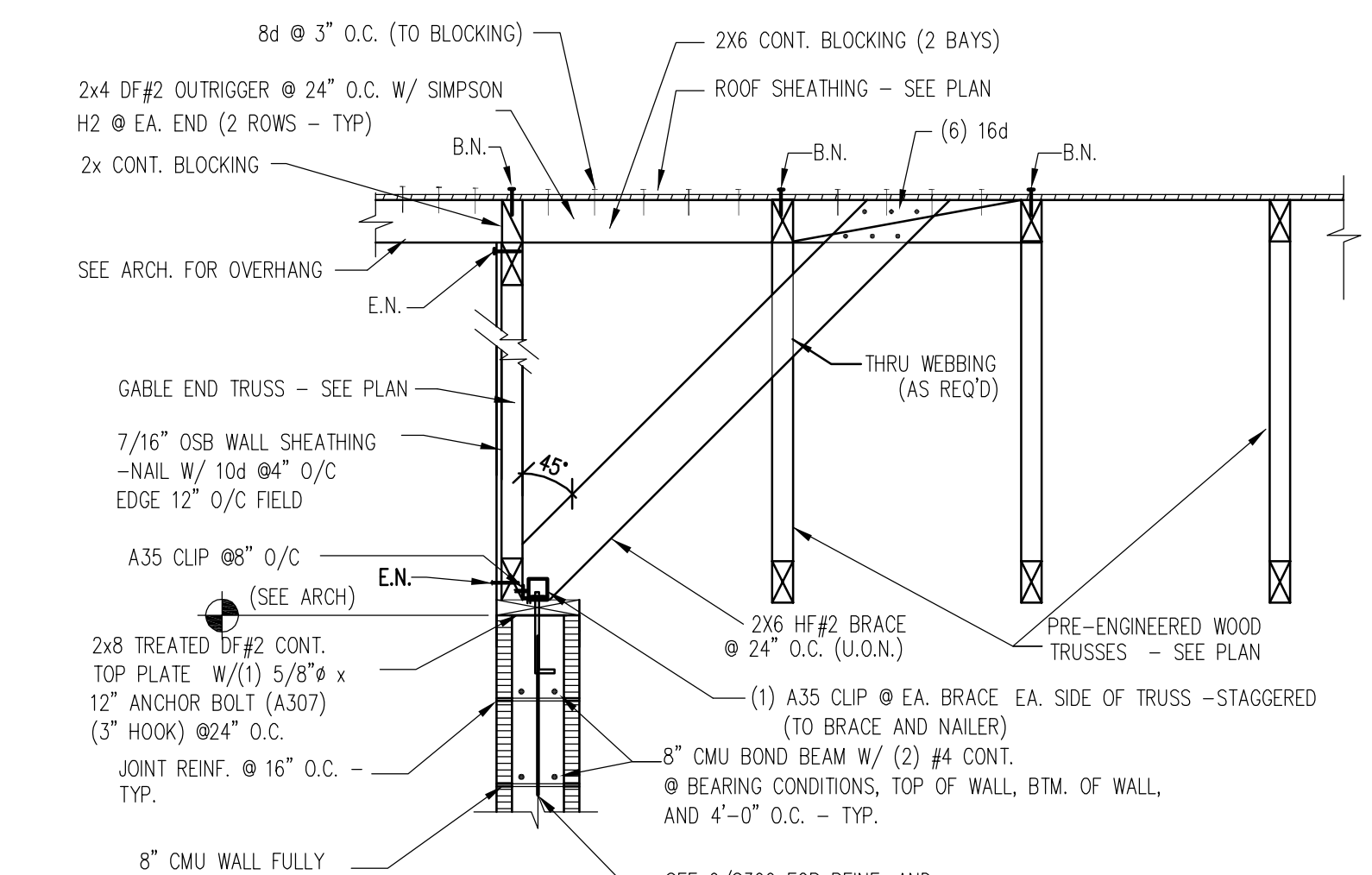
**REVIEWS**

INITIALS	REVISION
	BDA DSGN. REV.
	BDA TECH. REV.

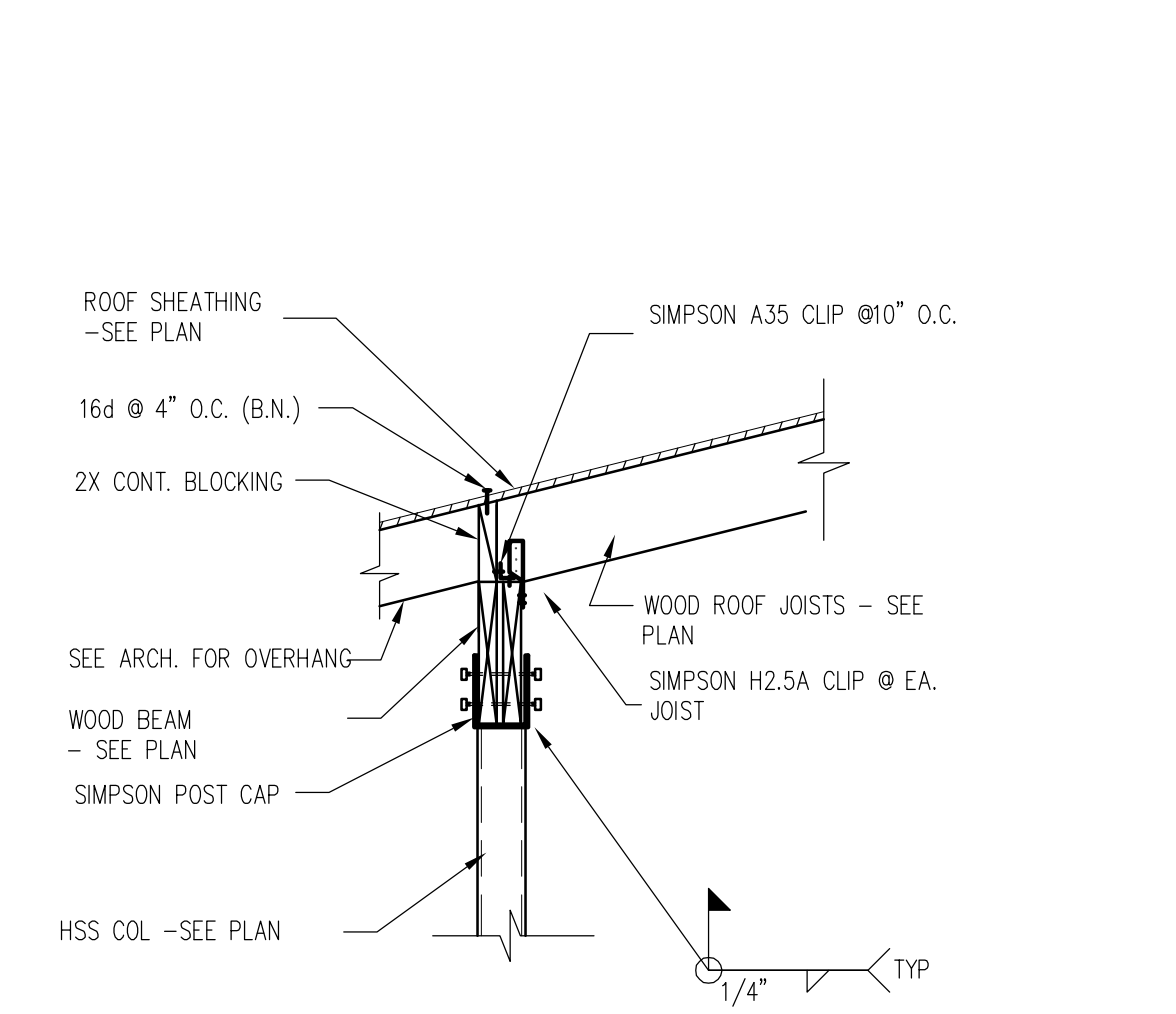
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 DATE: 2/10/15  
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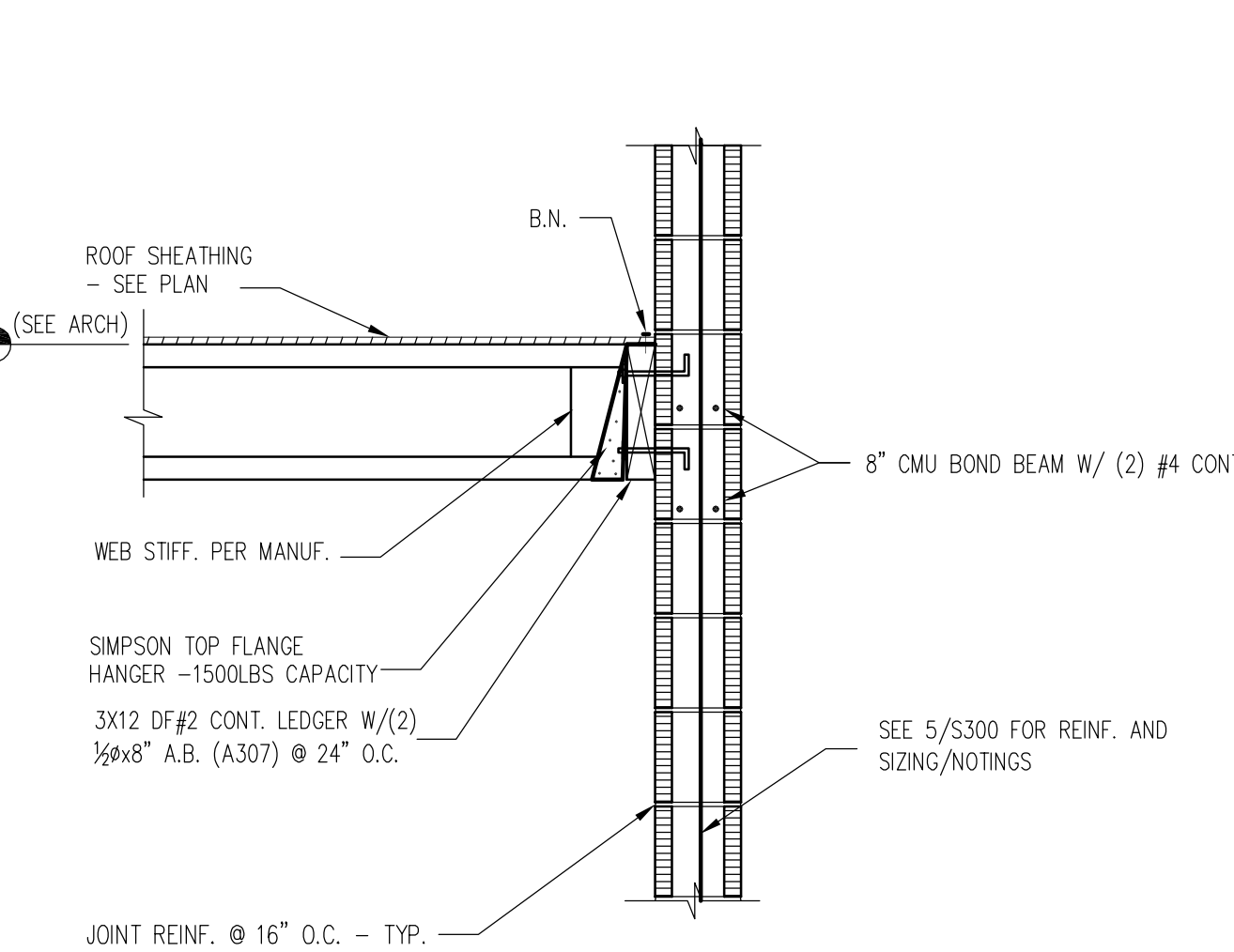
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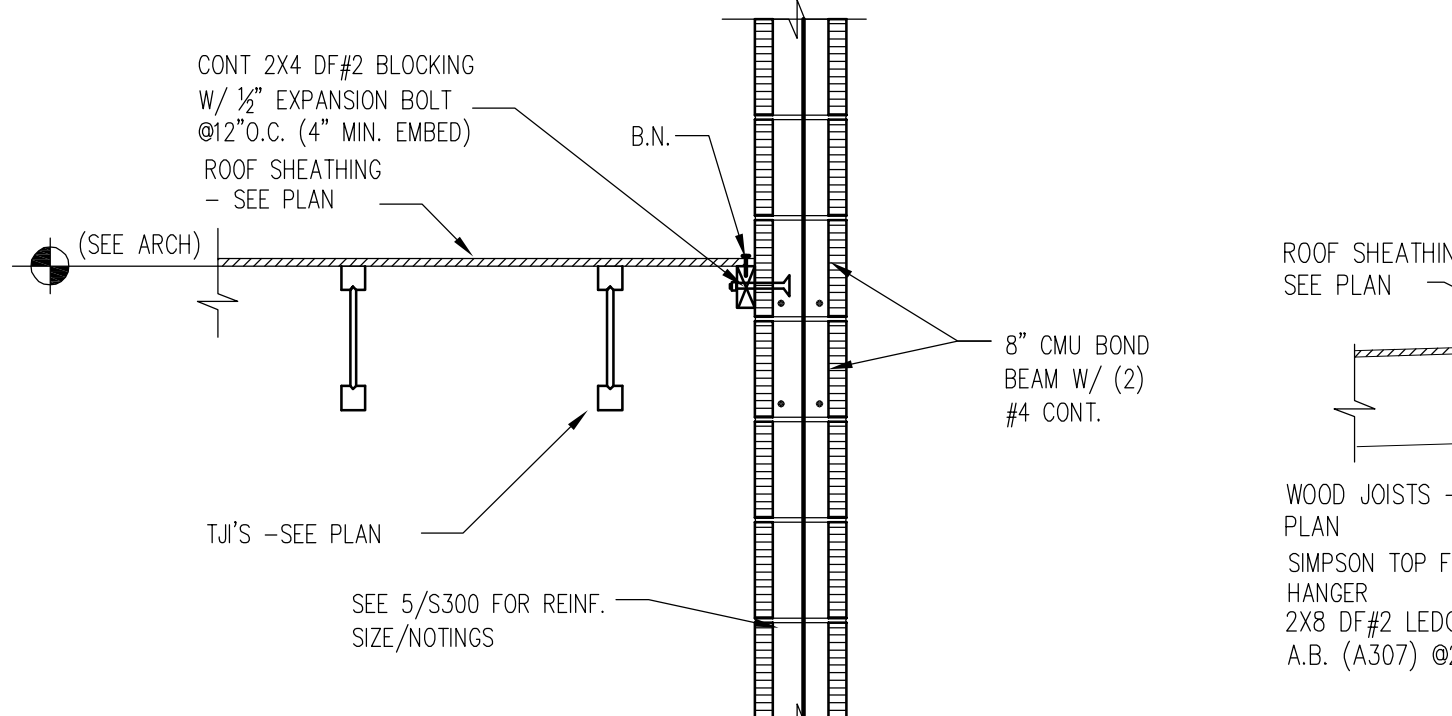
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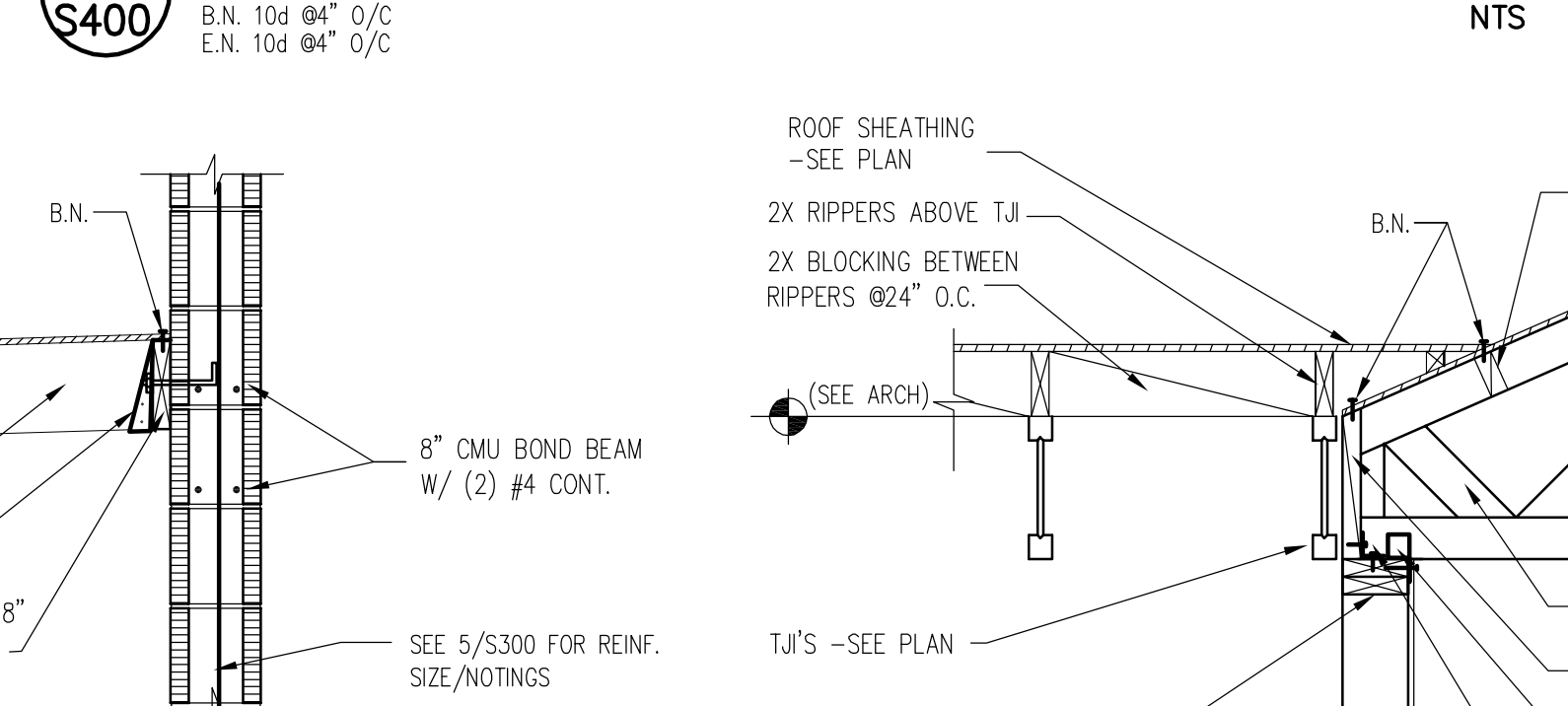
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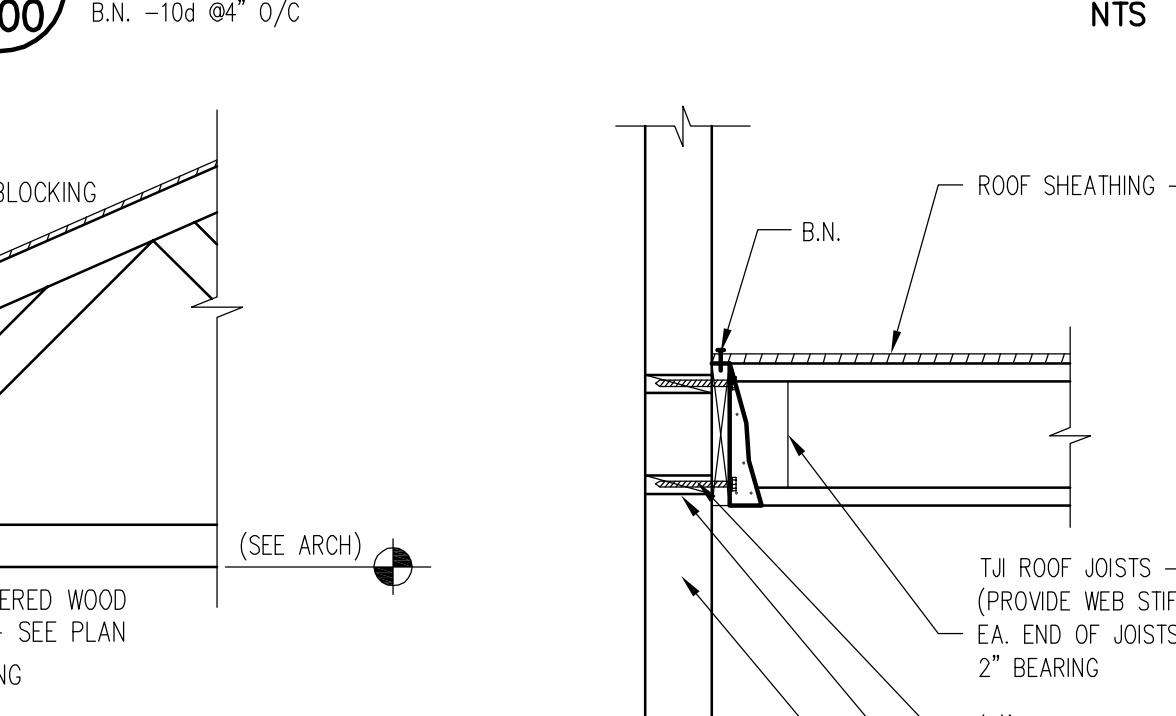
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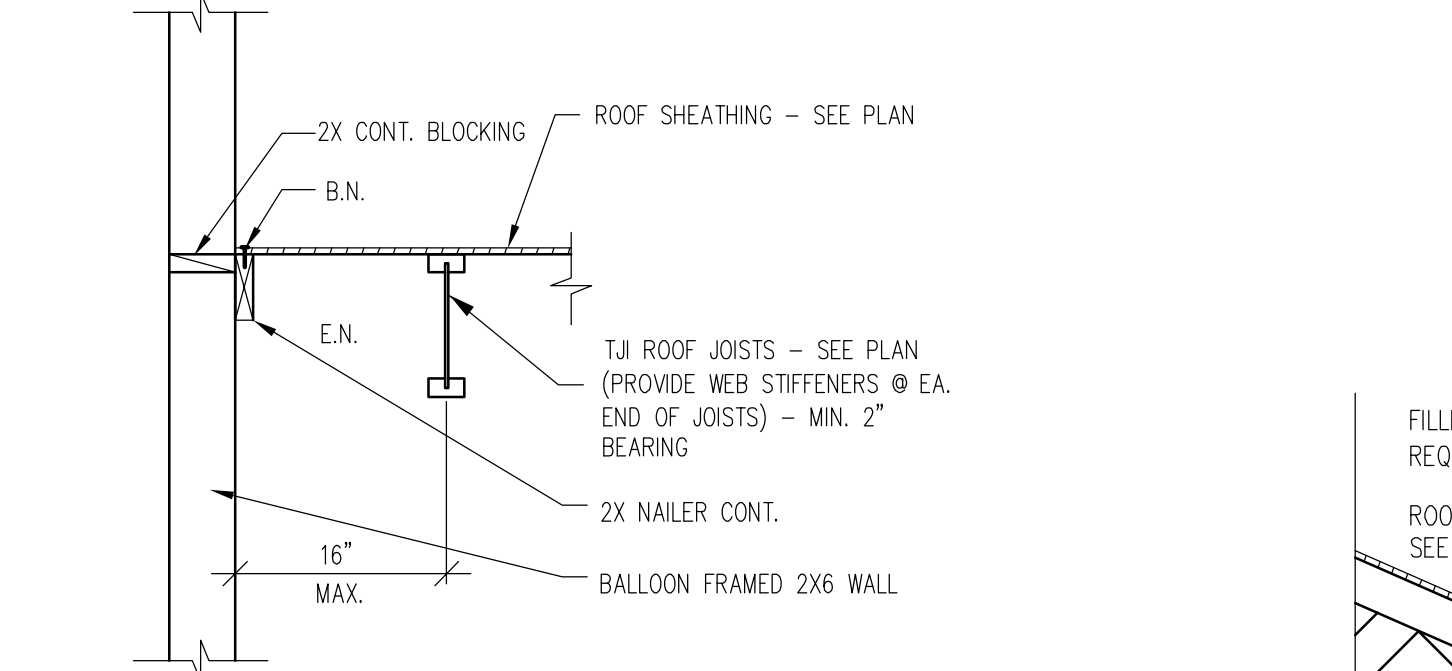
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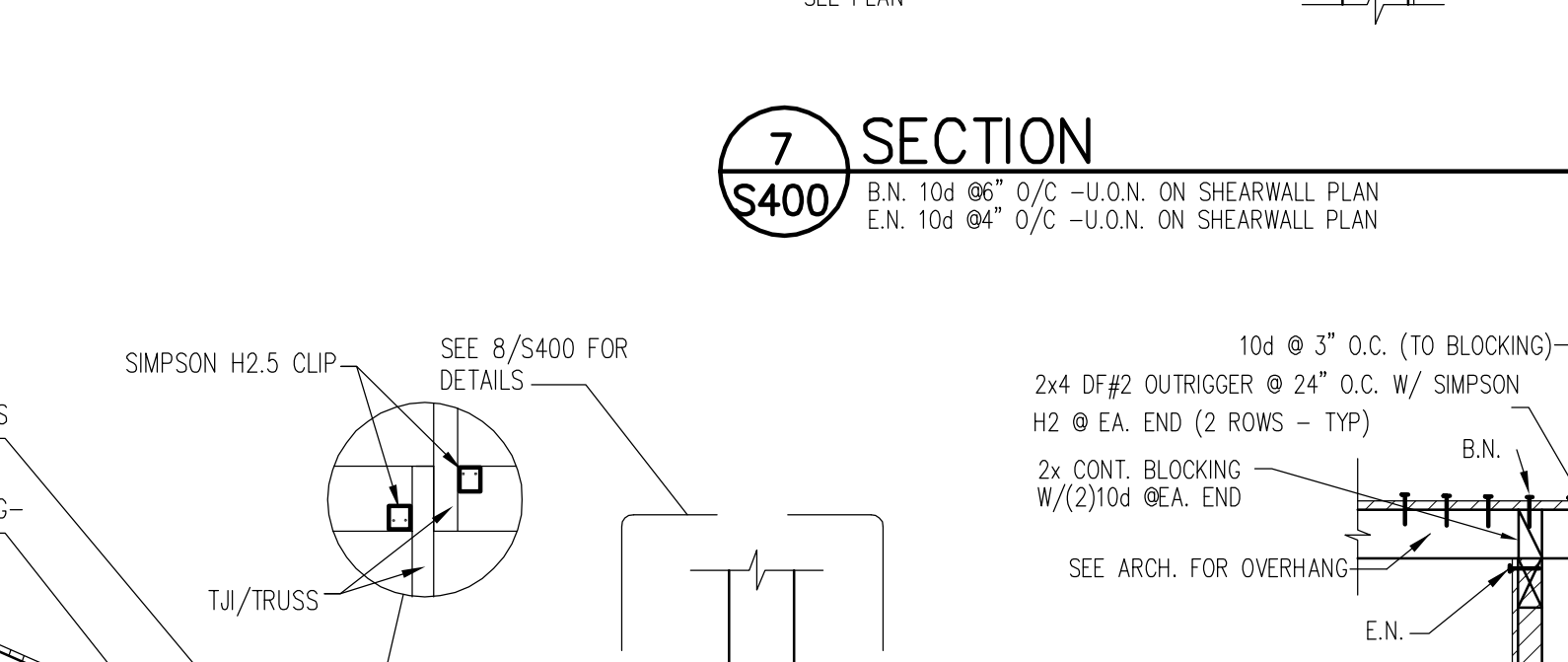
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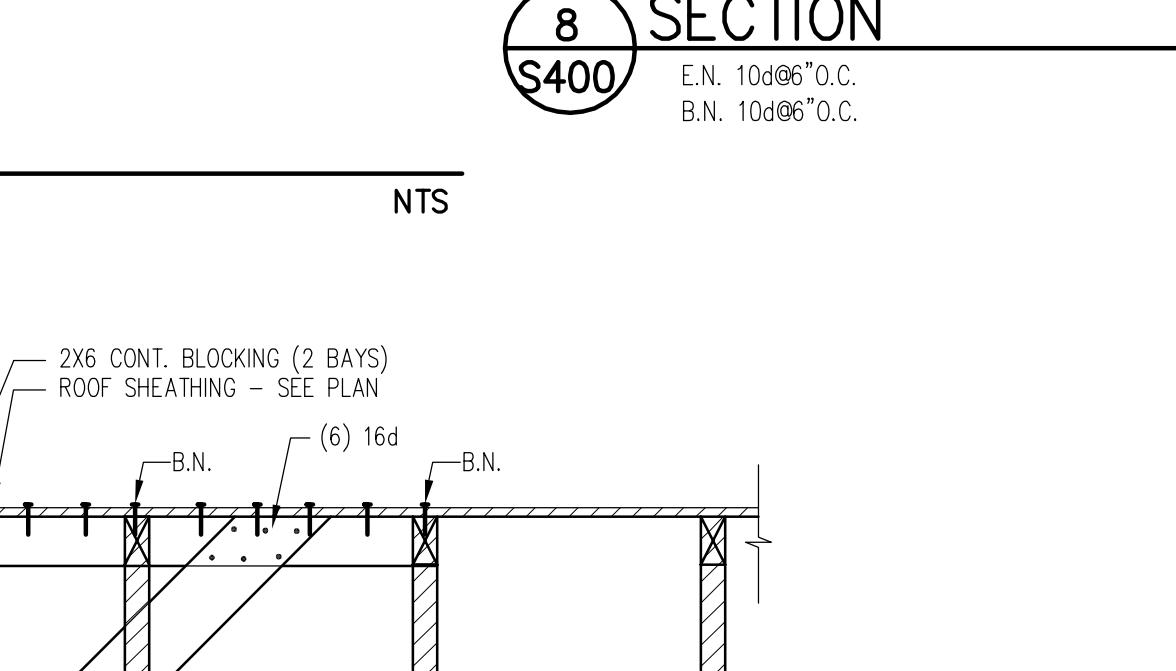
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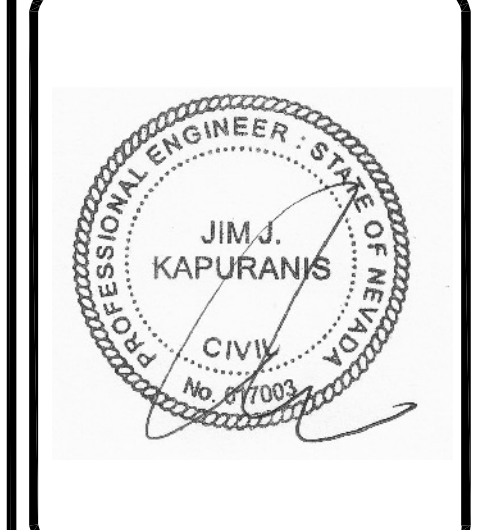
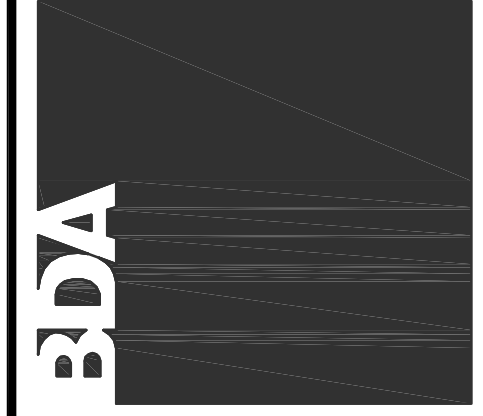
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REV.#	DATE	COMMENTS

**REVIEWS**

INITIALS	BDA DSGN. REV.	BDA TECH REV.

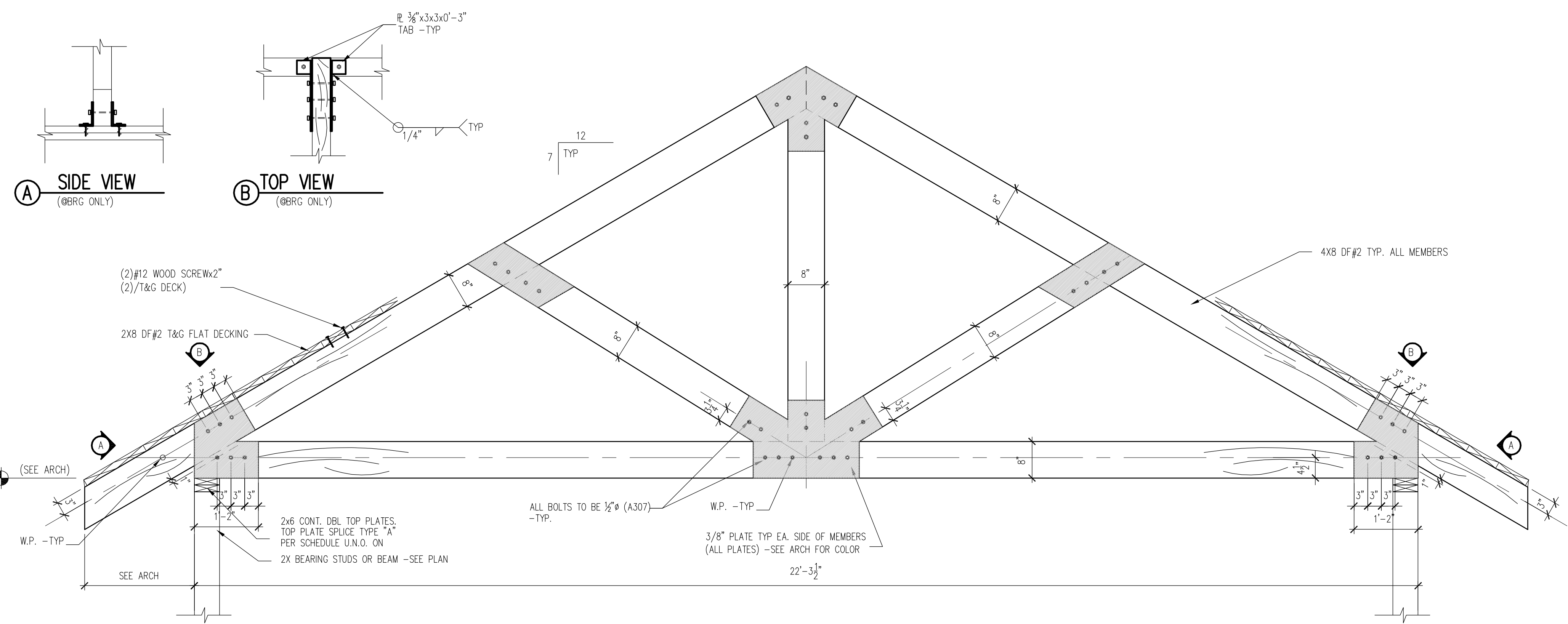
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PROJECT NO: 1107  
DRAWN:  
DATE: 2/10/15  
**S400**  
OF

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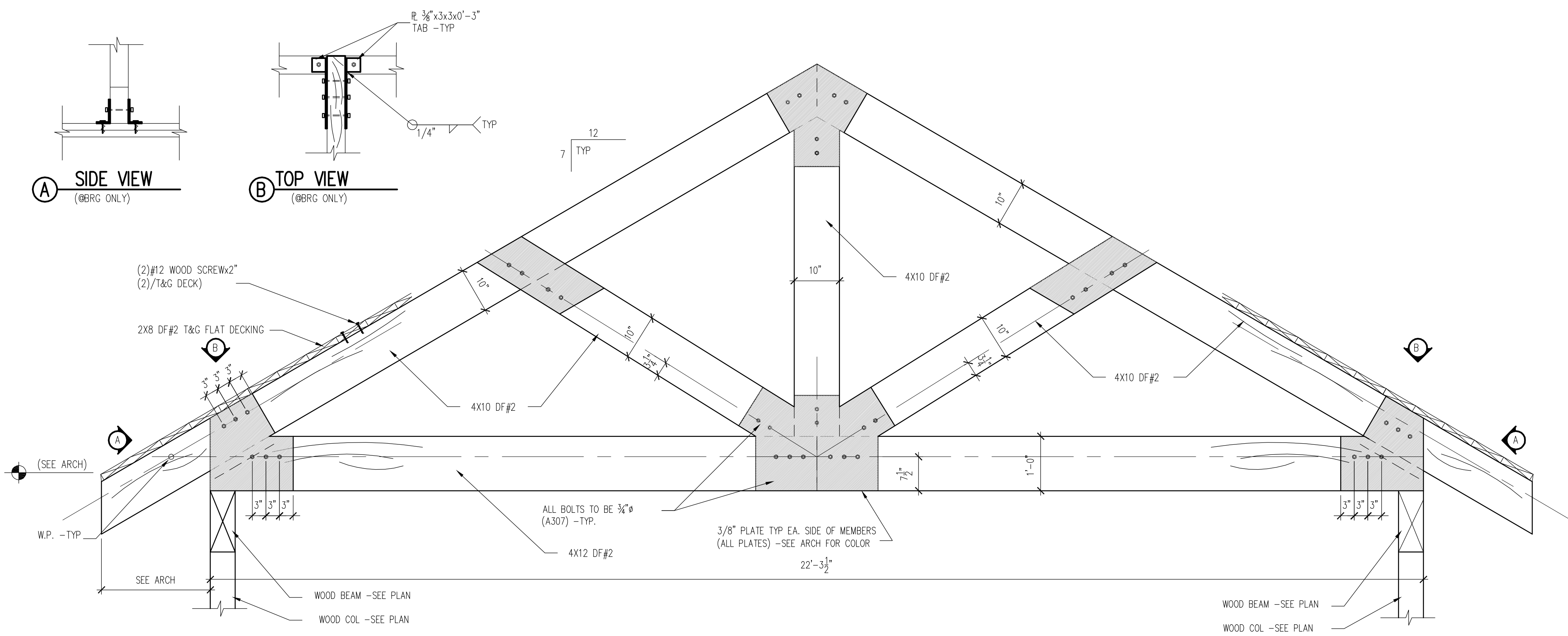
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**1 SECTION**  
S500 NTS



**2 SECTION**  
S500 NTS

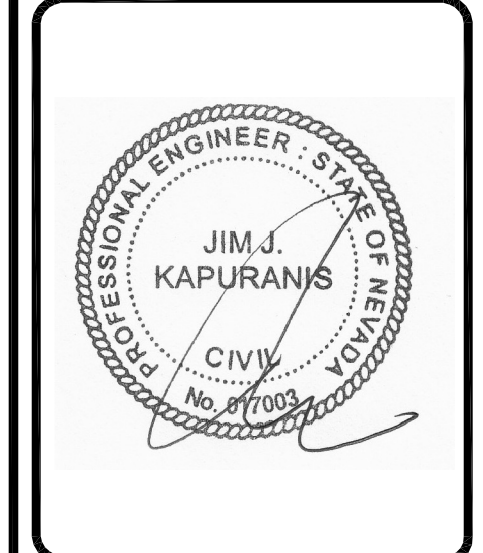
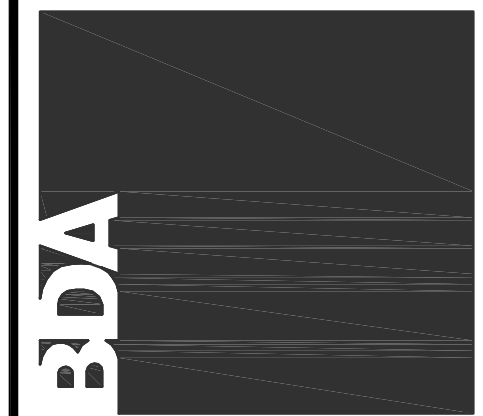
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REV.#	DATE	COMMENTS

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CCAS  
PROJECT NO.: 1107  
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**S500**  
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