

EXPANSION OF DOCTORS INLET ELEMENTARY CAFETERIA

2634 C.R. 220, MIDDLEBURG, FL 32068

SCHOOL DISTRICT OF CLAY COUNTY

SDCC PROJECT No. C-7-18/19



ADDISON G. DAVIS * SUPERINTENDENT OF SCHOOLS

JANICE KEREKES

DISTRICT 1 BOARD MEMBER

CAROL STUDDARD

DISTRICT 2 BOARD MEMBER

TINA BULLOCK

DISTRICT 3 BOARD MEMBER

MARY BOLLA

DISTRICT 4 BOARD MEMBER

ASHLEY GILHOUSEN

DISTRICT 5 BOARD MEMBER

PHASE Iii FINAL BID DOCUMENTS

ARCHITECT

As required by Florida Building Code section 110.8.4.4, I hereby certify to the best of my knowledge, information and belief, the plans and specifications comply with the applicable minimum building codes and the applicable fire-safety standards as determined by the local authority in accordance with this section and Chapter 633, Florida Statutes.

Brian O. Boatright, Project Architect
Florida Architectural License No. AR0012659

CIVIL ENGINEER

As required by Florida Building Code section 110.8.4.4, I hereby certify to the best of my knowledge, information and belief, the plans and specifications comply with the applicable minimum building codes and the applicable fire-safety standards as determined by the local authority in accordance with this section and Chapter 633, Florida Statutes.

Allyn C. Tidball, Project Civil Engineer
Florida Professional Engineer No. PE 33532

STRUCTURAL ENGINEER

As required by Florida Building Code section 110.8.4.4, I hereby certify to the best of my knowledge, information and belief, the plans and specifications comply with the applicable minimum building codes and the applicable fire-safety standards as determined by the local authority in accordance with this section and Chapter 633, Florida Statutes.

John H. Southard, Project Structural Engineer
Florida Professional Engineer No. PE 57599

MECHANICAL/PLUMBING ENGINEER

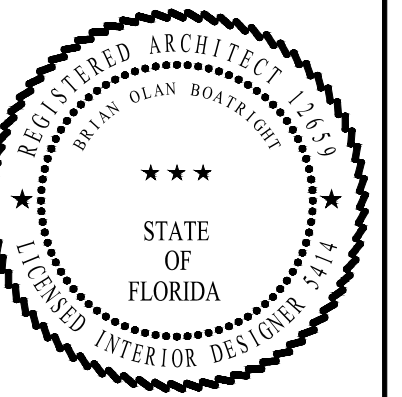
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W. Michael Gregory, Project Mechanical/Plumbing Engineer
Florida Professional Engineer No. PE 46607

ELECTRICAL ENGINEER

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J. Bryan Shaffer, Project Electrical Engineer
Florida Professional Engineer No. PE 58168



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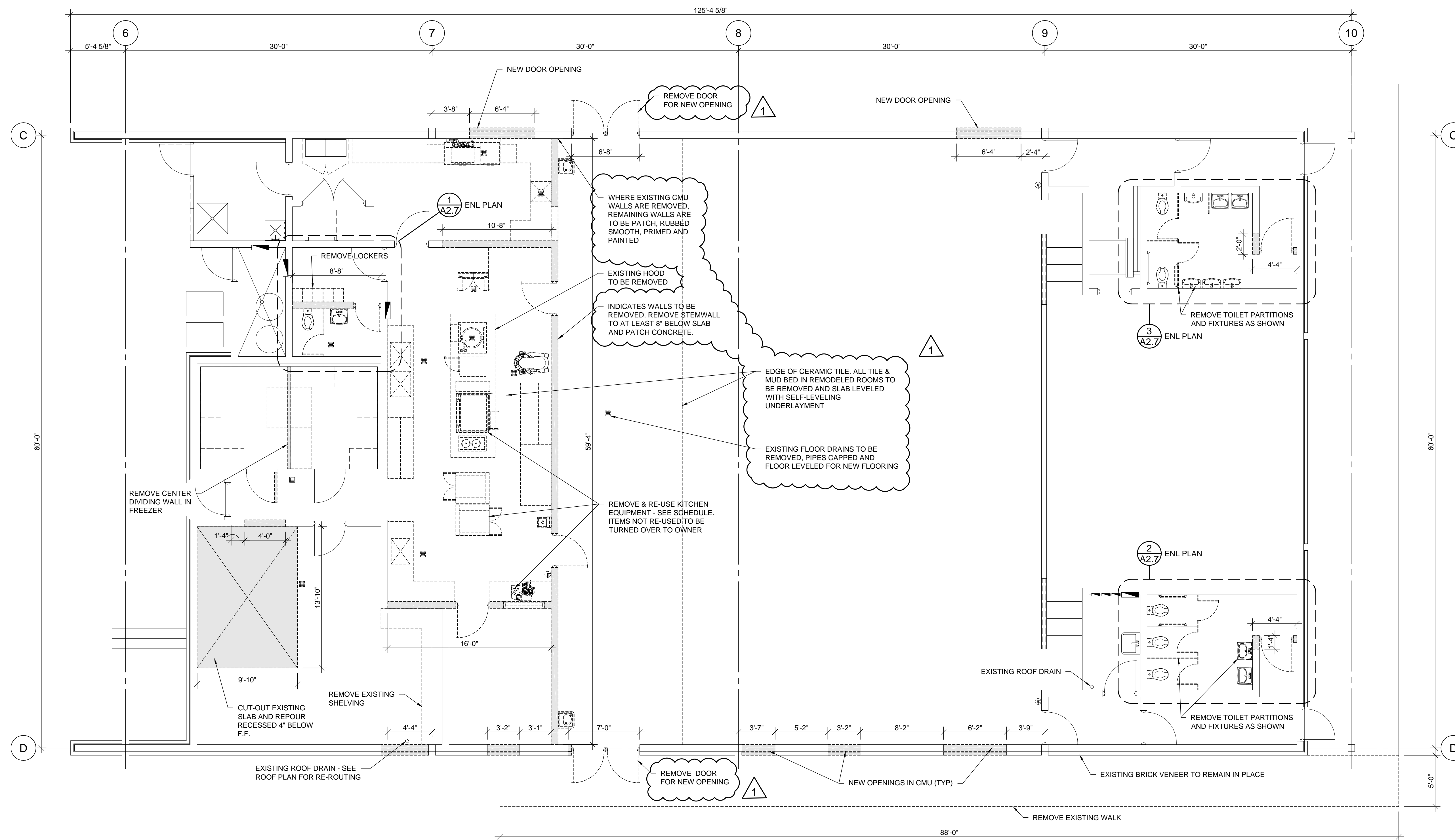
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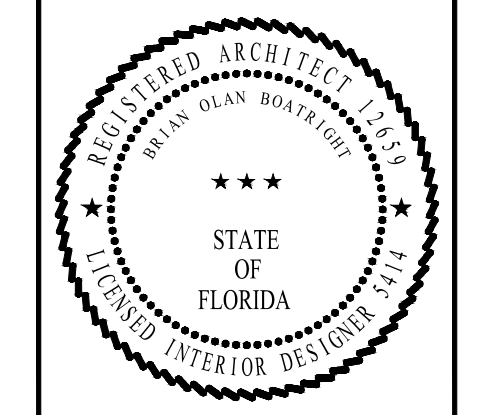
| REVISIONS | | |
|-----------|---------|---------|
| NO. | DATE | COMMENT |
| 1 | 10-5-19 | ADD 3 |

JOB NO. 182000
DATE 9-12-19
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CHECKED BY BOB

A0.1



1 DEMOLITION FLOOR PLAN (PHASE 2)
3/16" = 1'-0"



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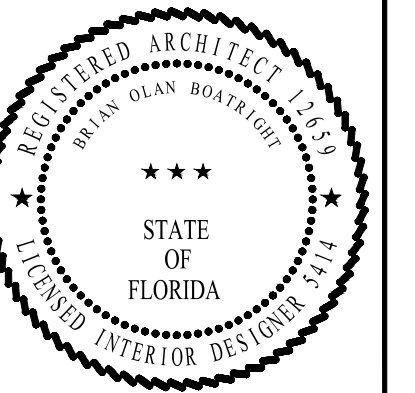
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A2.1

THIS DRAWING IS INTENDED TO BE PRINTED AT 24" X 36"



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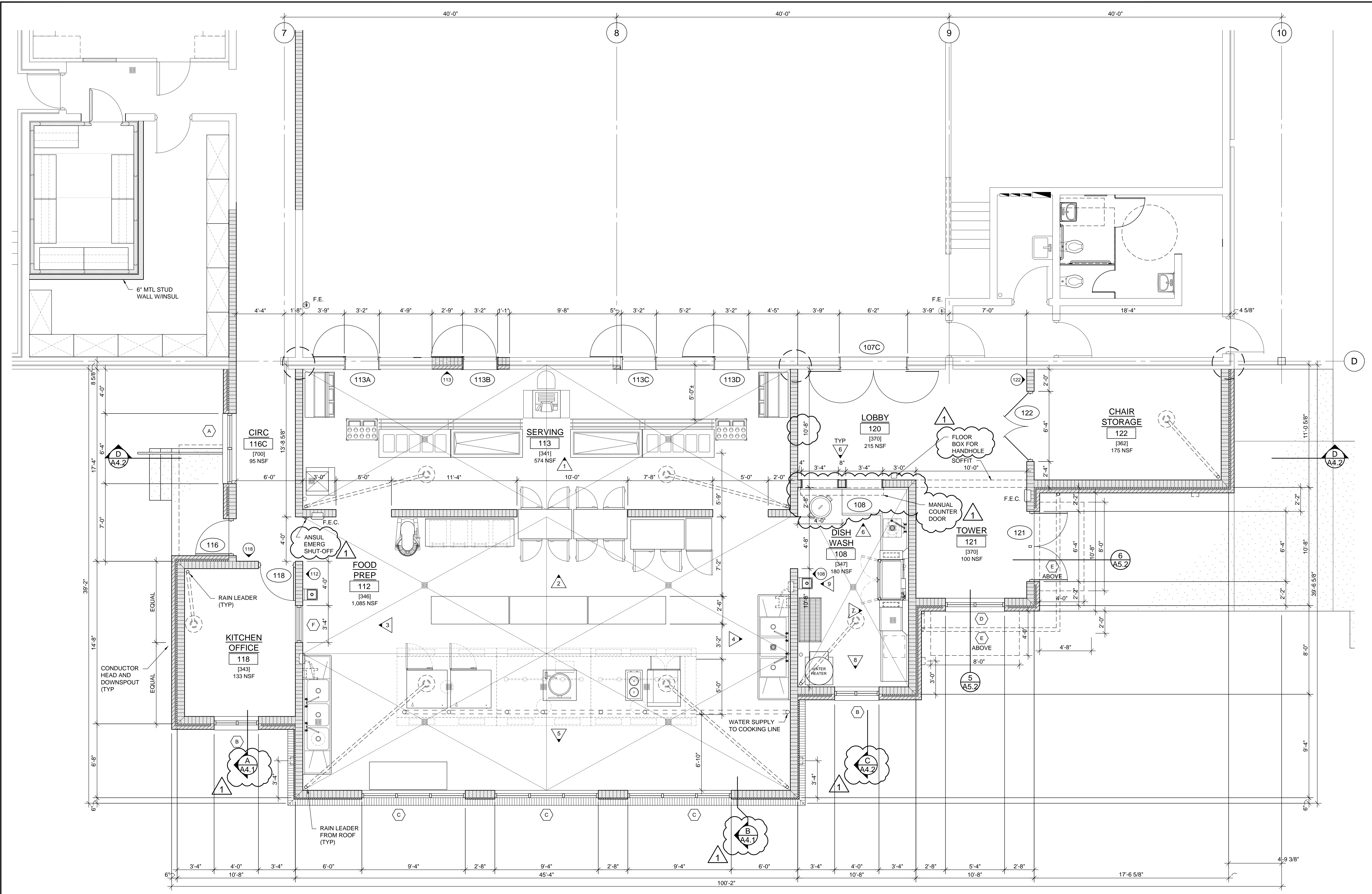
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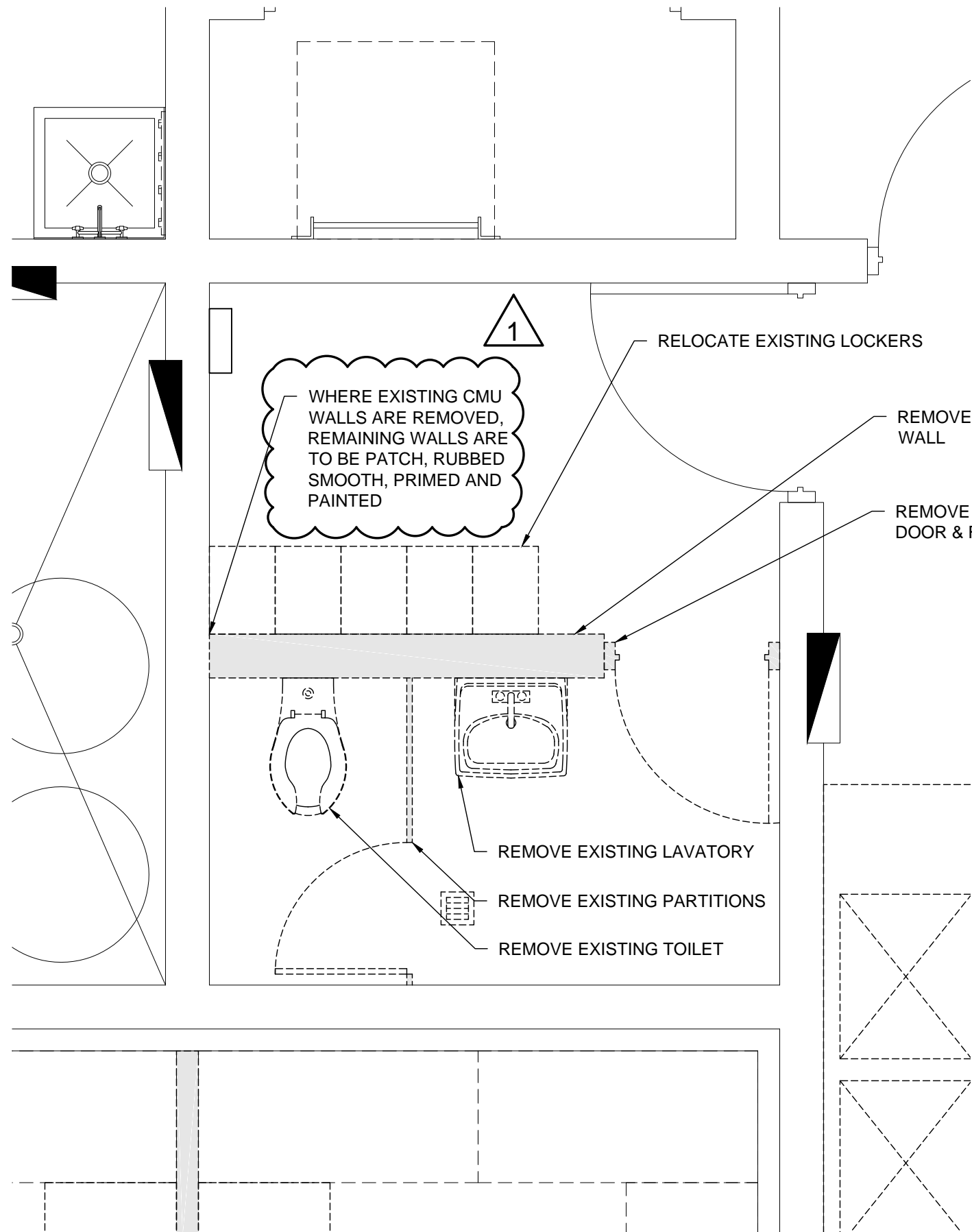
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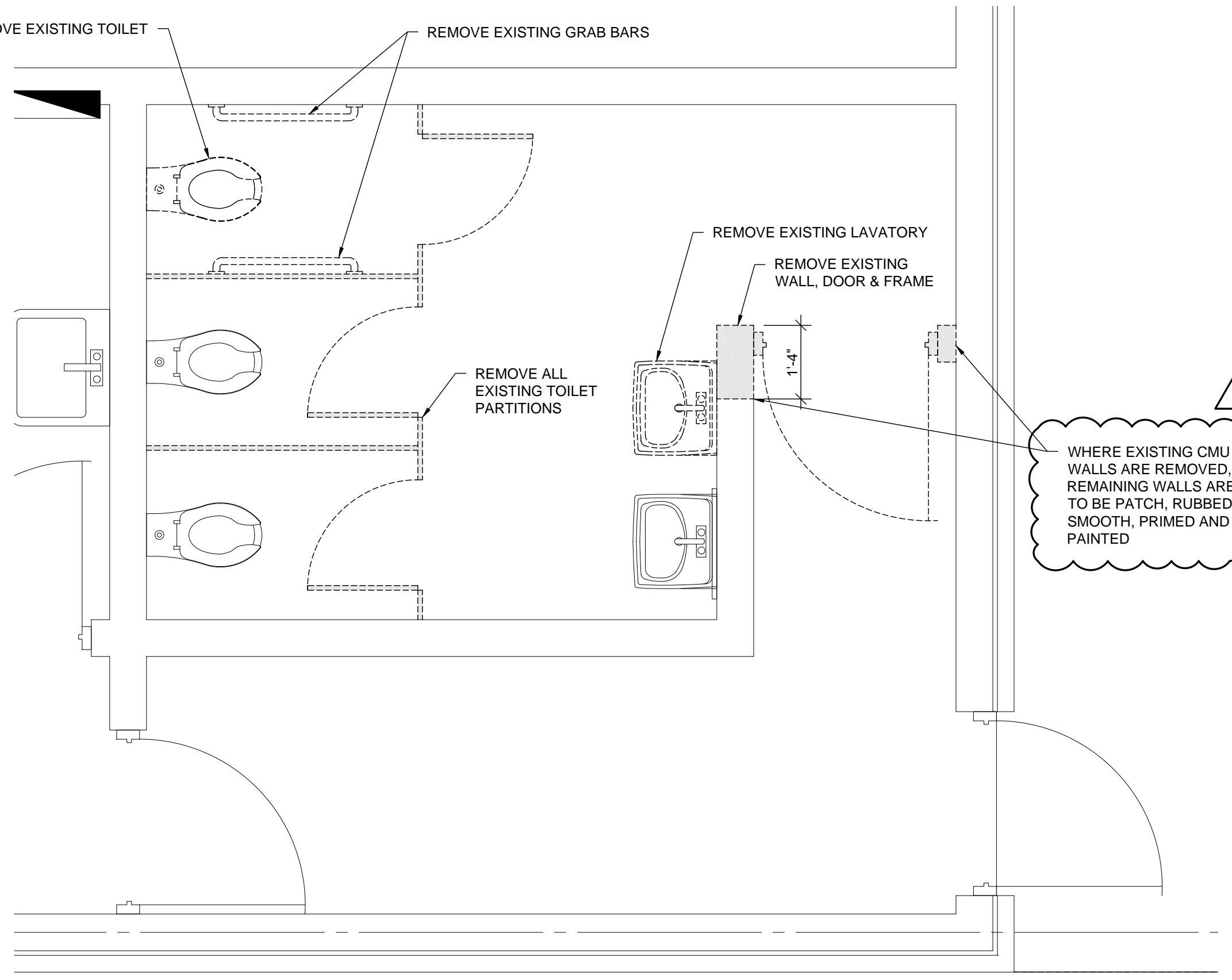
FOR KITCHEN EQUIPMENT SCHEDULE
 SEE SHEET A2.8

1 FLOOR PLAN - ENLARGED - NEW KITCHEN
 1/4" = 1'-0"
 2,830 GSF ADDITION

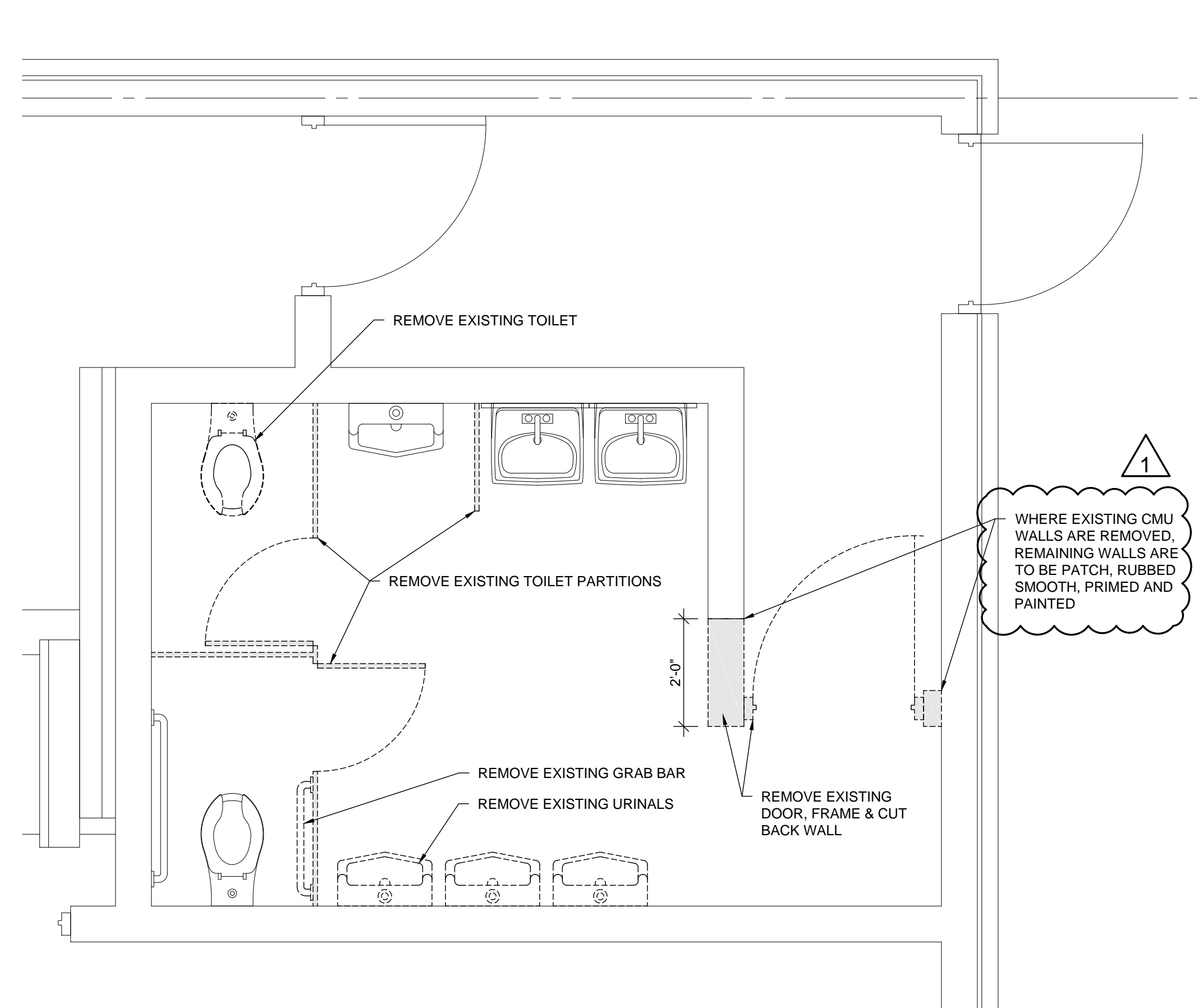
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1 DEMOLITION PLAN - STAFF
1/2" = 1'-0"

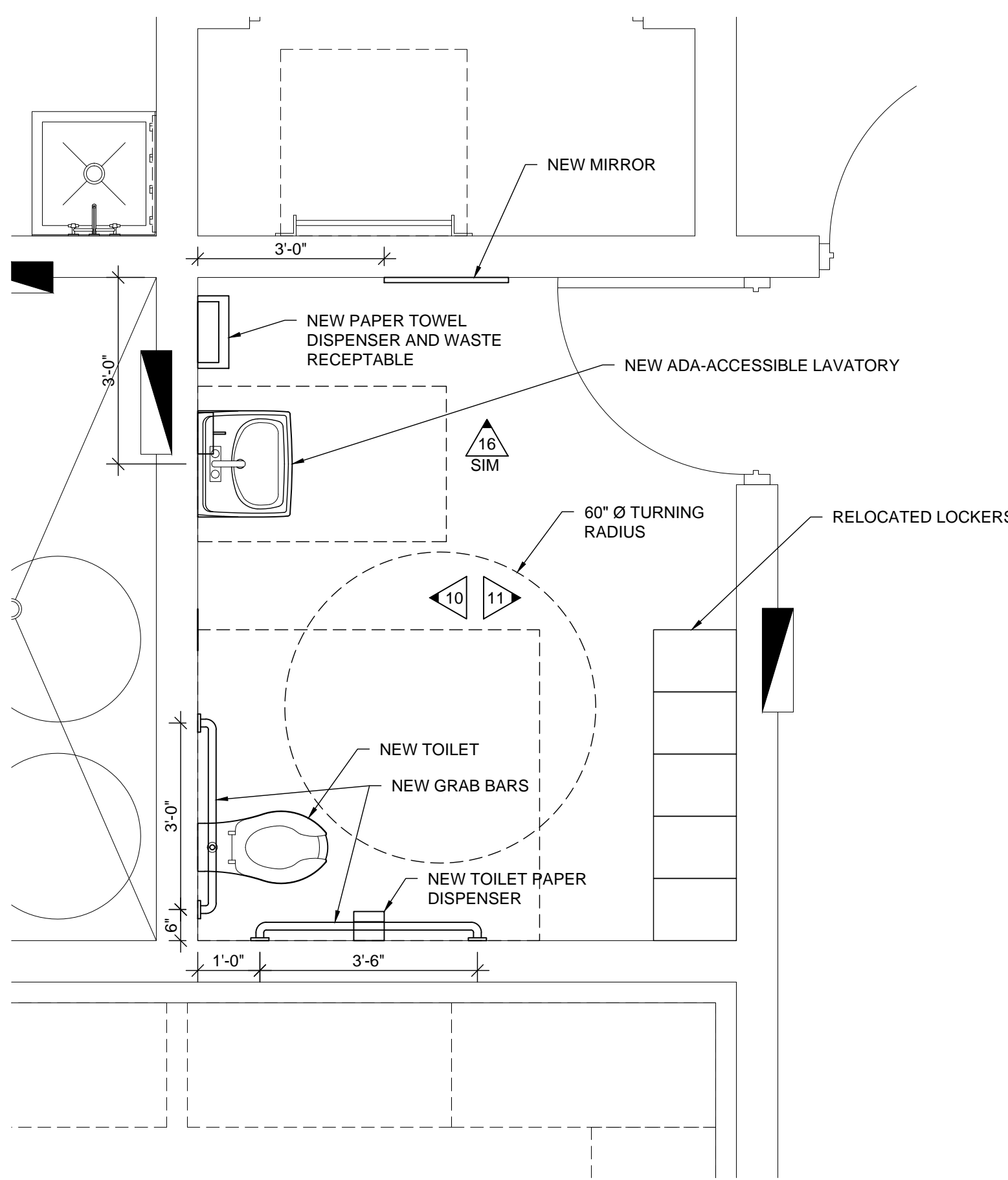


2 DEMOLITION PLAN - GIRLS
1/2" = 1'-0"

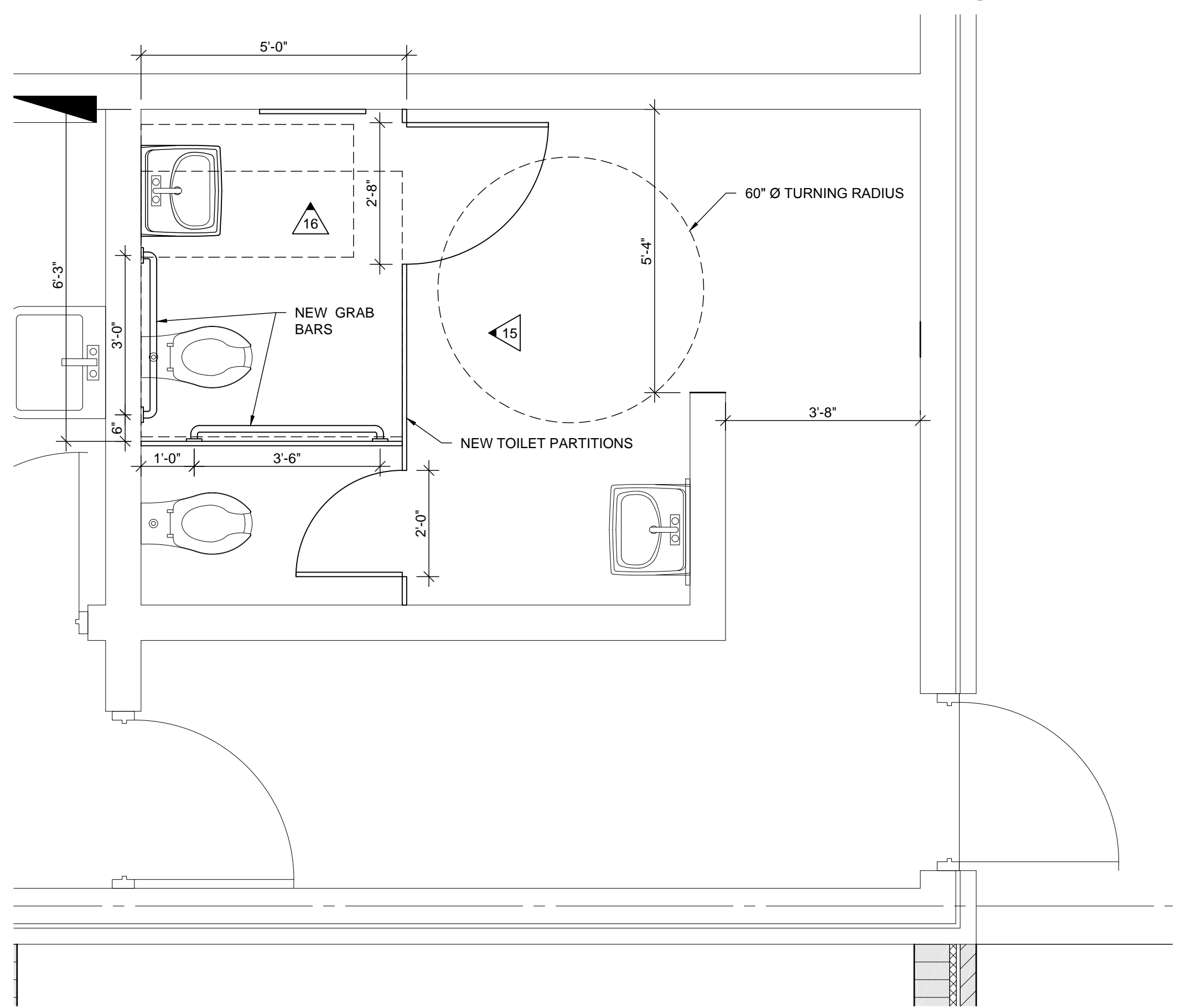


3 DEMOLITION PLAN - BOYS
1/2" = 1'-0"

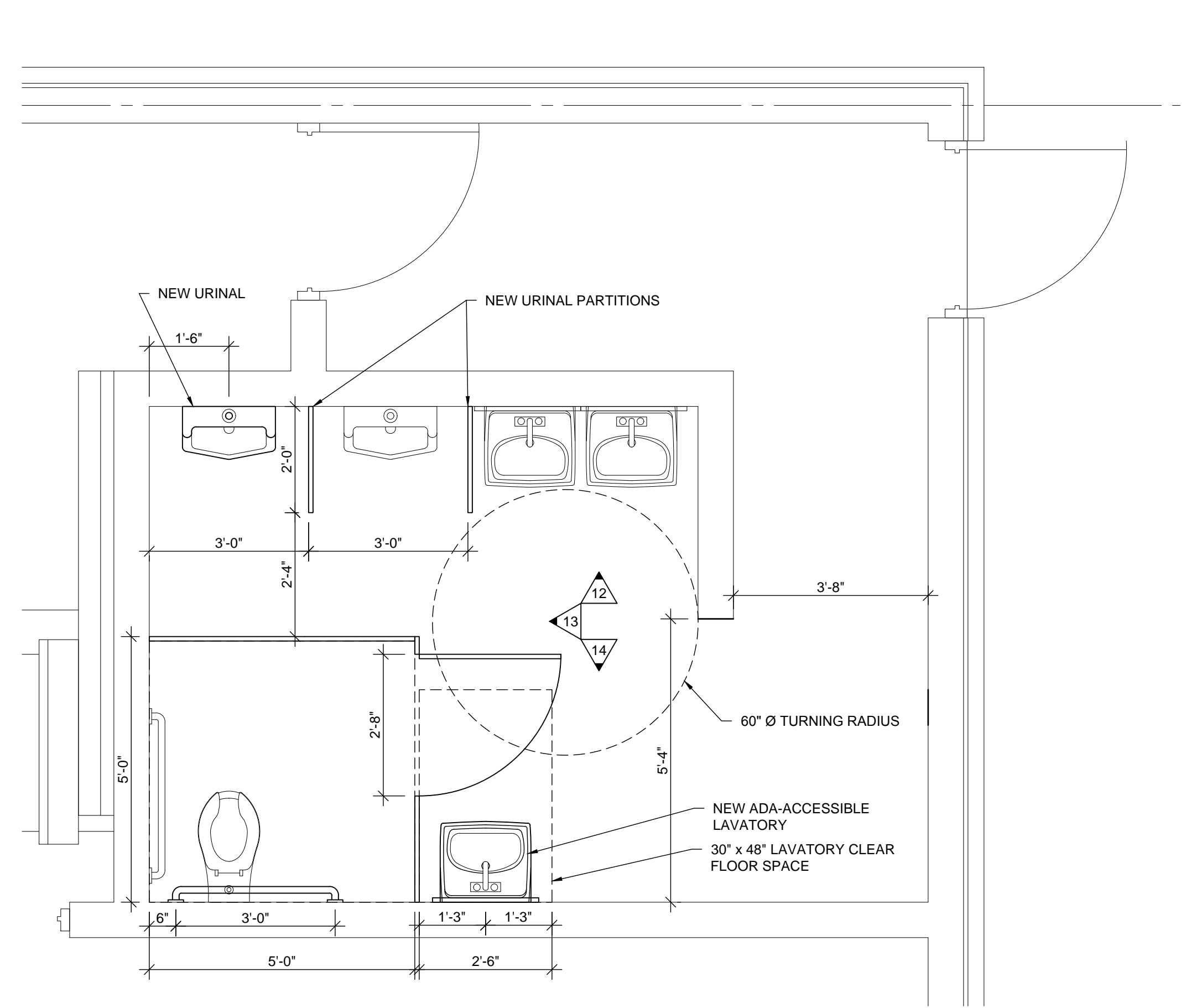
EXISTING TOILET ACCESSORIES ARE TO REMAIN IN PLACE, NEW ACCESSORIES ARE SHOWN ON THE PLANS AND IN THE INTERIOR ELEVATIONS. REFER TO SPECS FOR MODEL NUMBERS.



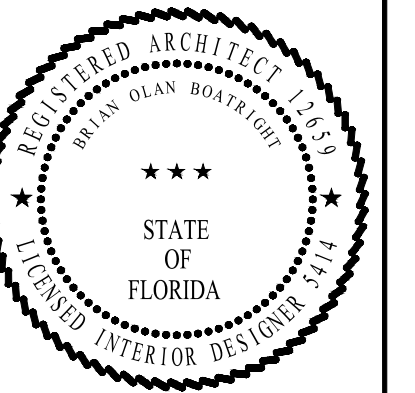
4 NEW TOILET PLAN - STAFF
1/2" = 1'-0"



5 NEW TOILET PLAN - GIRLS
1/2" = 1'-0"



6 NEW TOILET PLAN - BOYS
1/2" = 1'-0"



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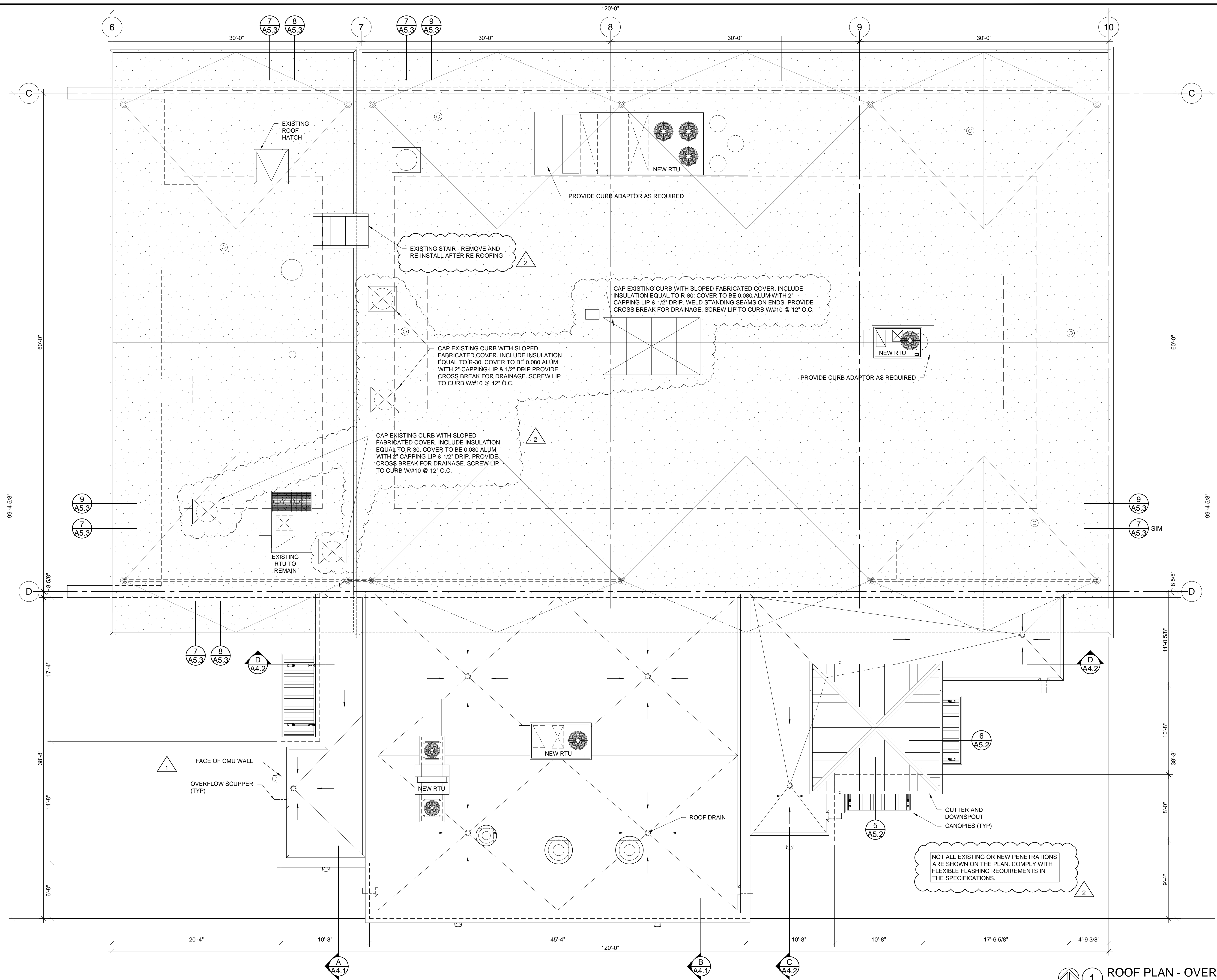
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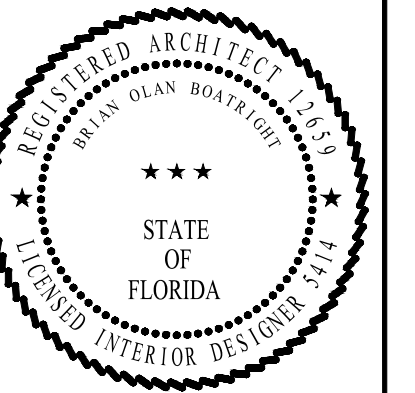
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1 ROOF PLAN - OVERALL
3/16" = 1'-0"



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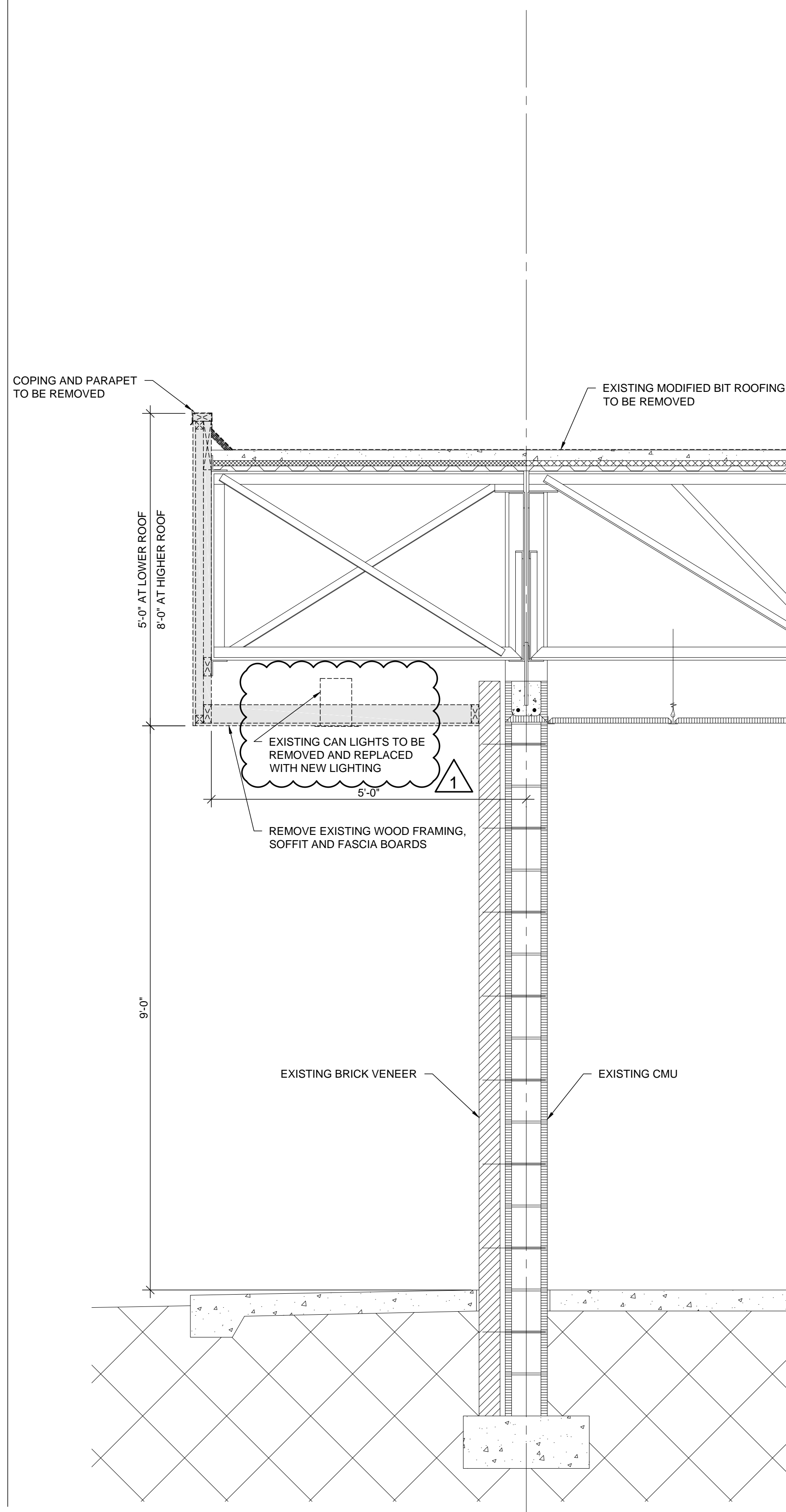
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| 2 | 10-5-19 | ADD 3 |

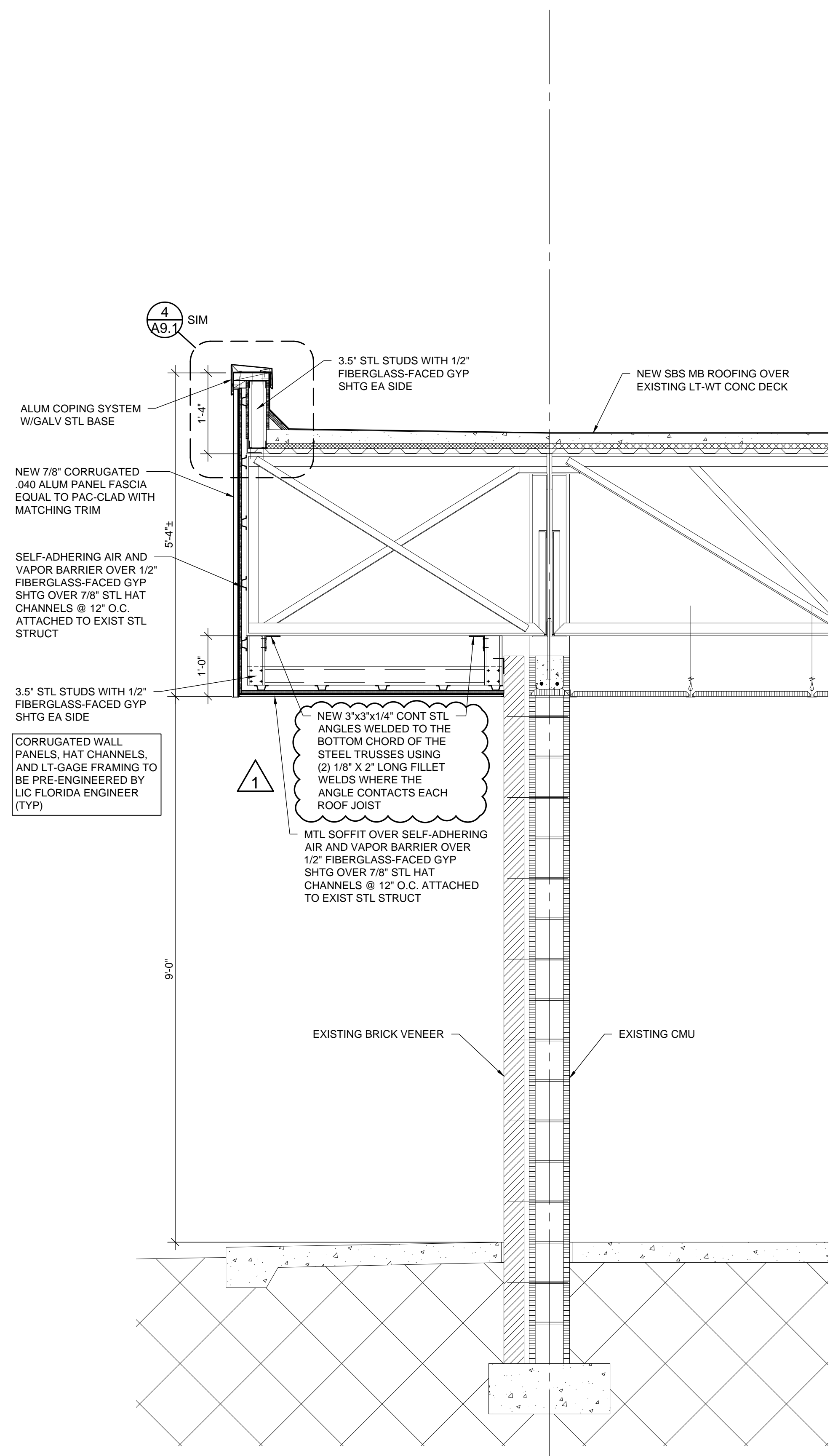
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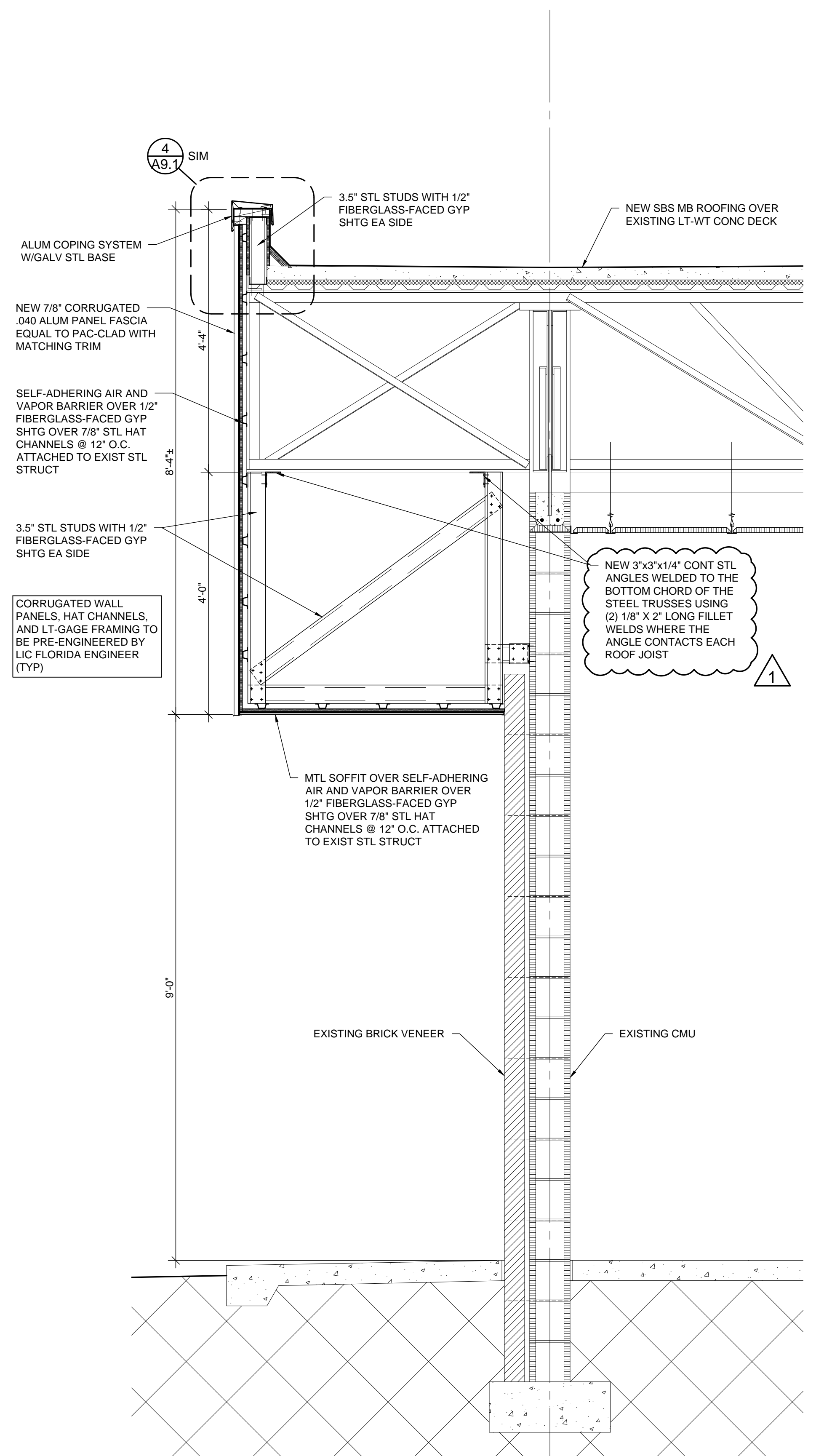
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7 WALL SECTION - DEMO
3/4" = 1'-0"



8 WALL SECTION - NEW
3/4" = 1'-0"



9 WALL SECTION - NEW
3/4" = 1'-0"

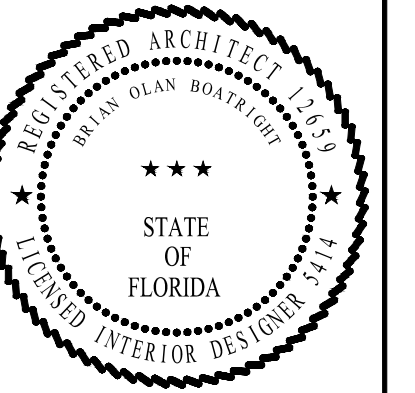
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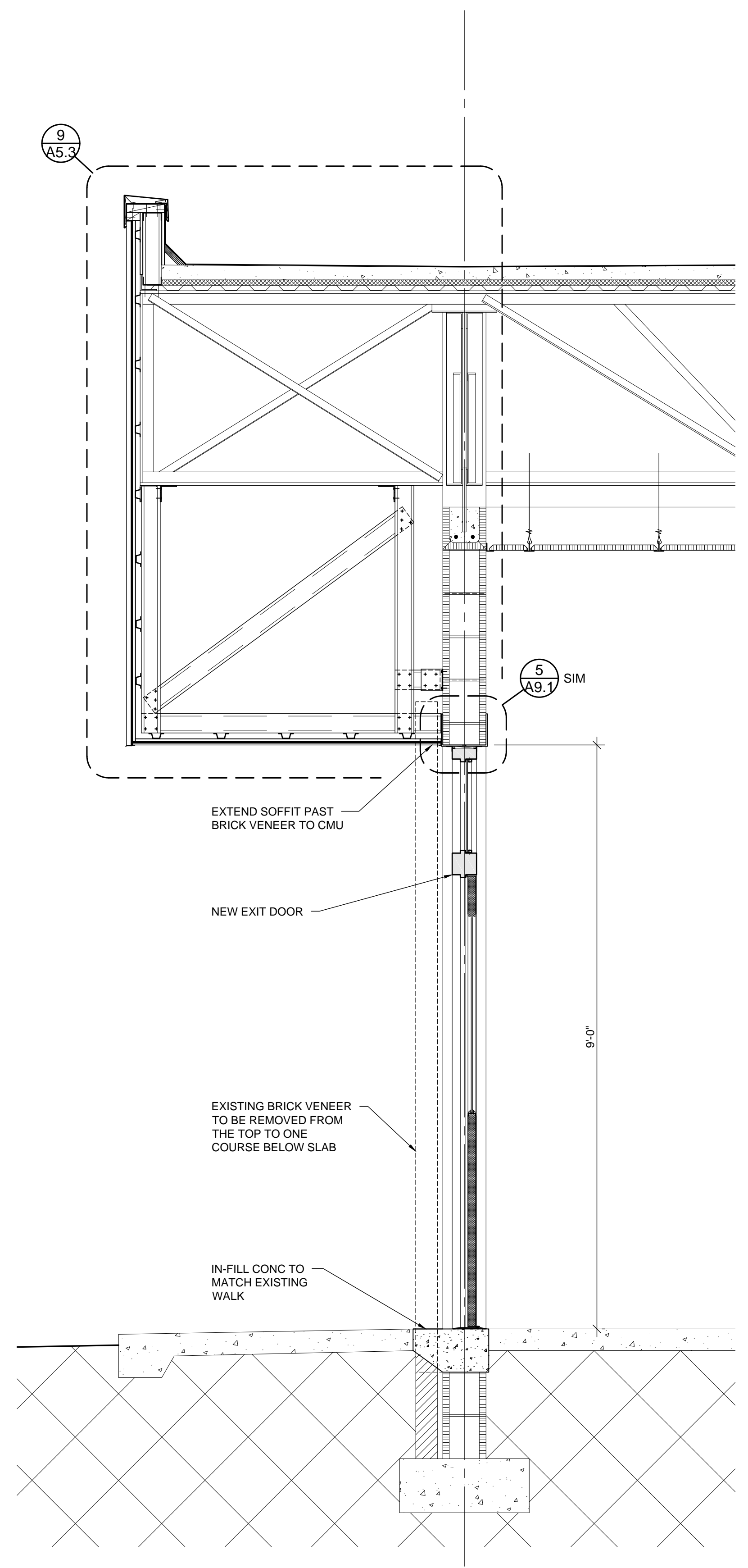
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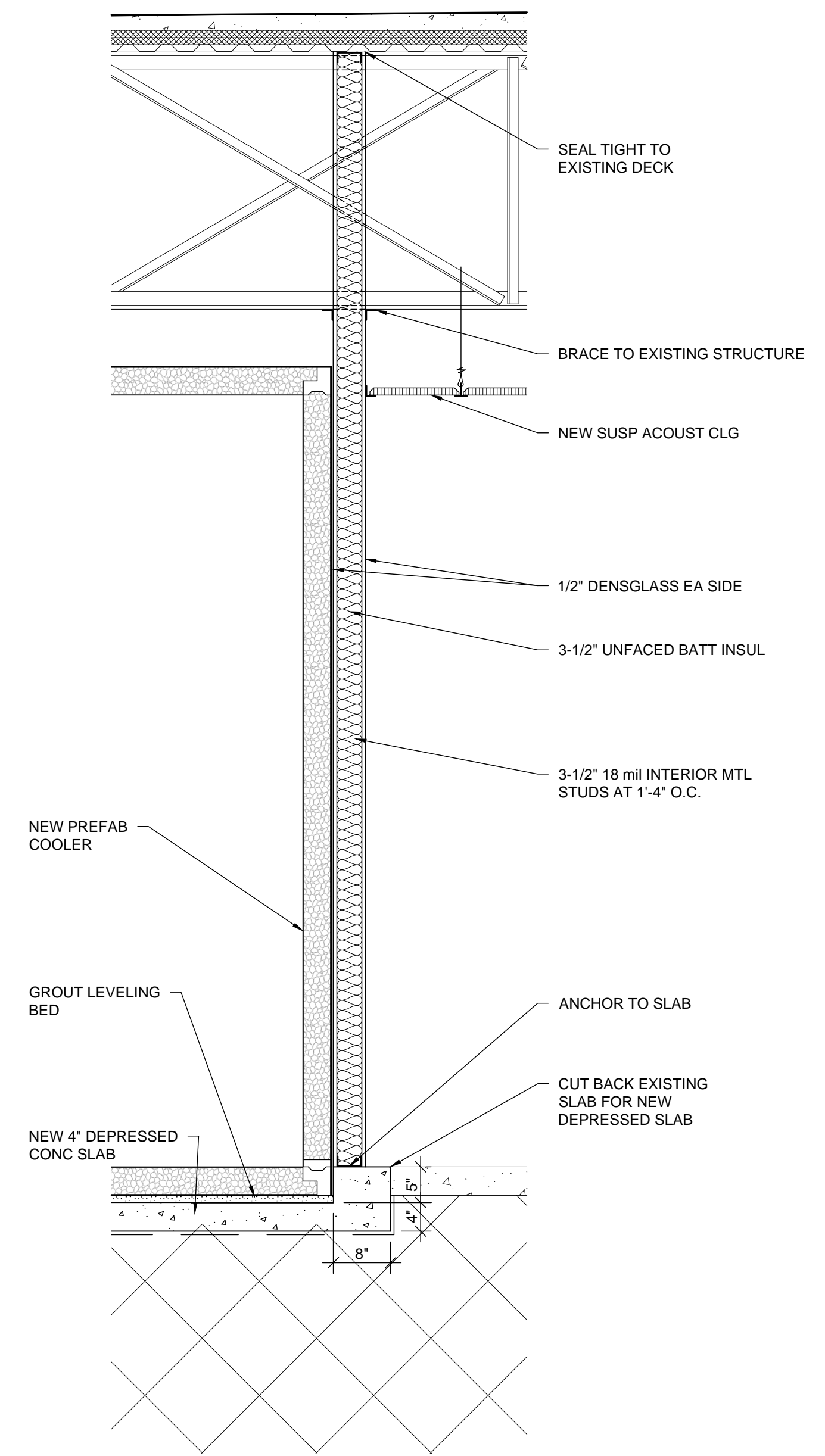
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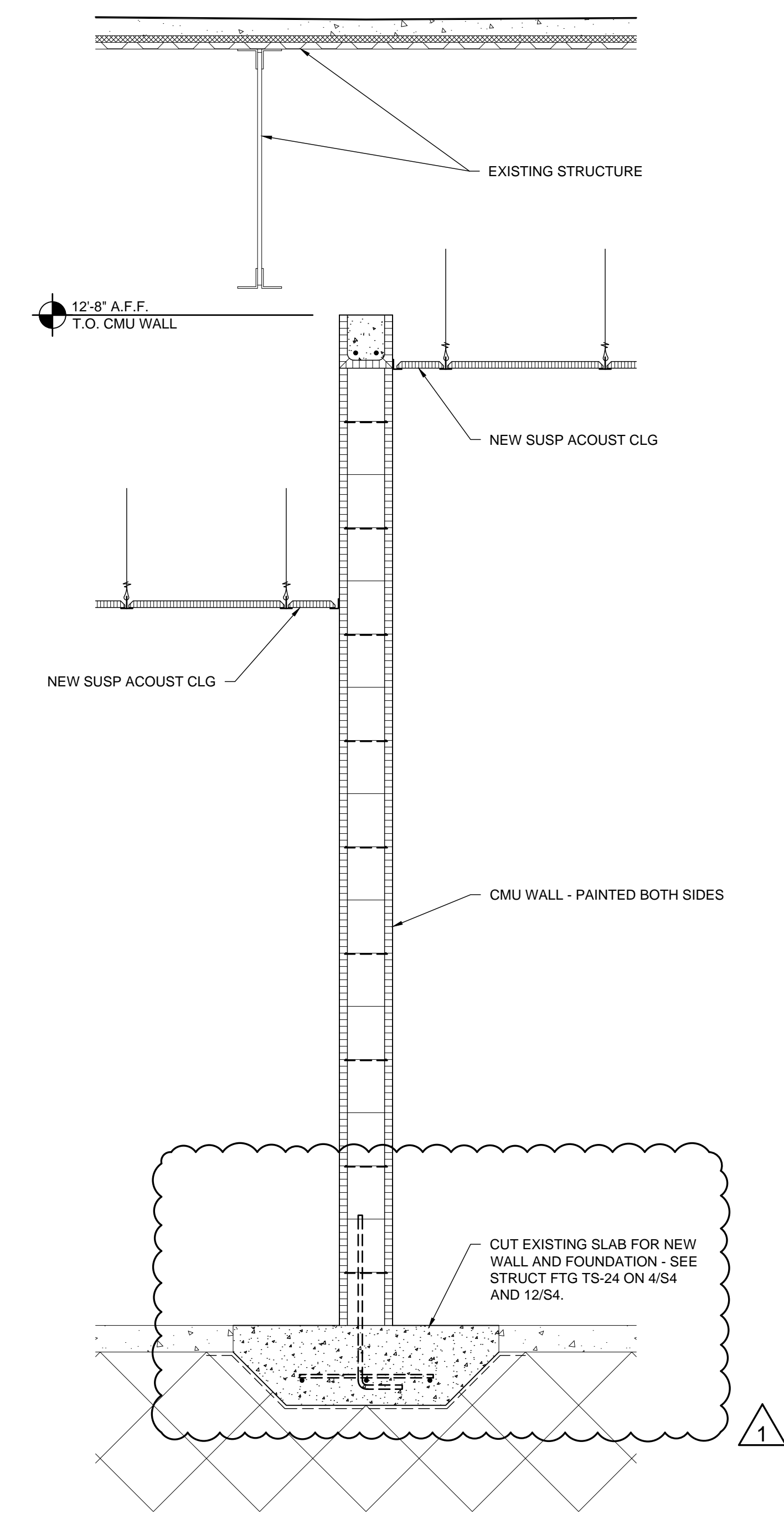
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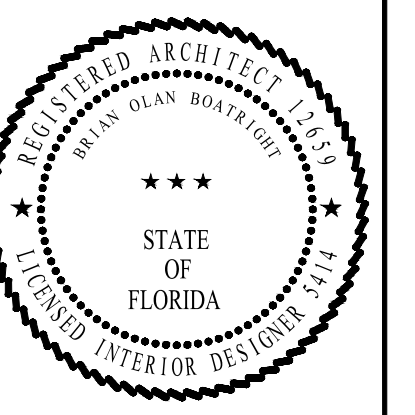
10 WALL SECTION
 3/4" = 1'-0"



11 WALL SECTION
 3/4" = 1'-0"



12 WALL SECTION
 3/4" = 1'-0"



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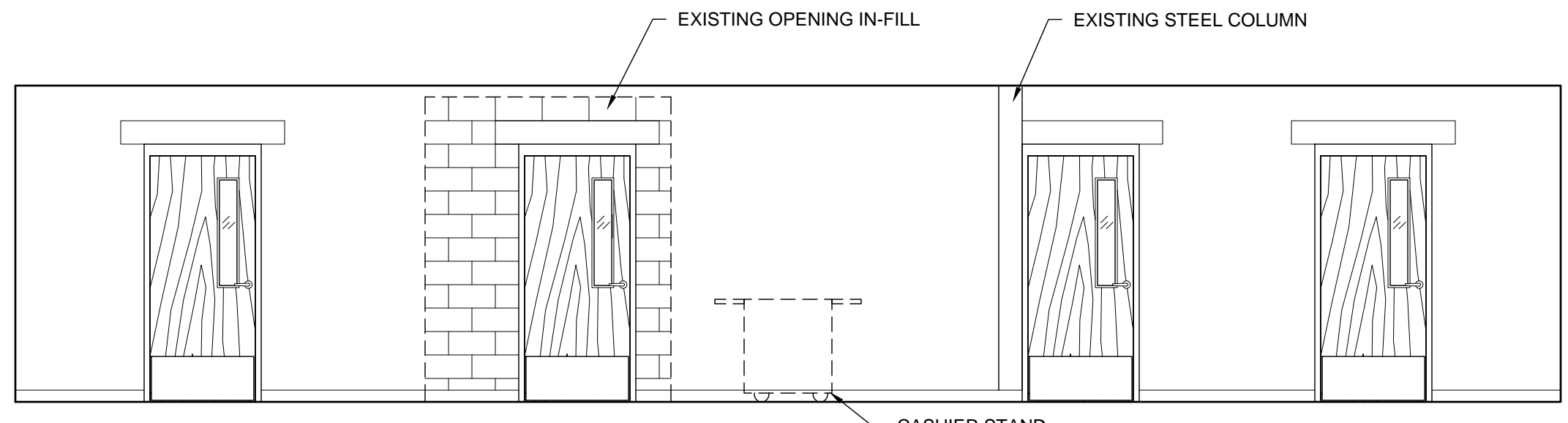
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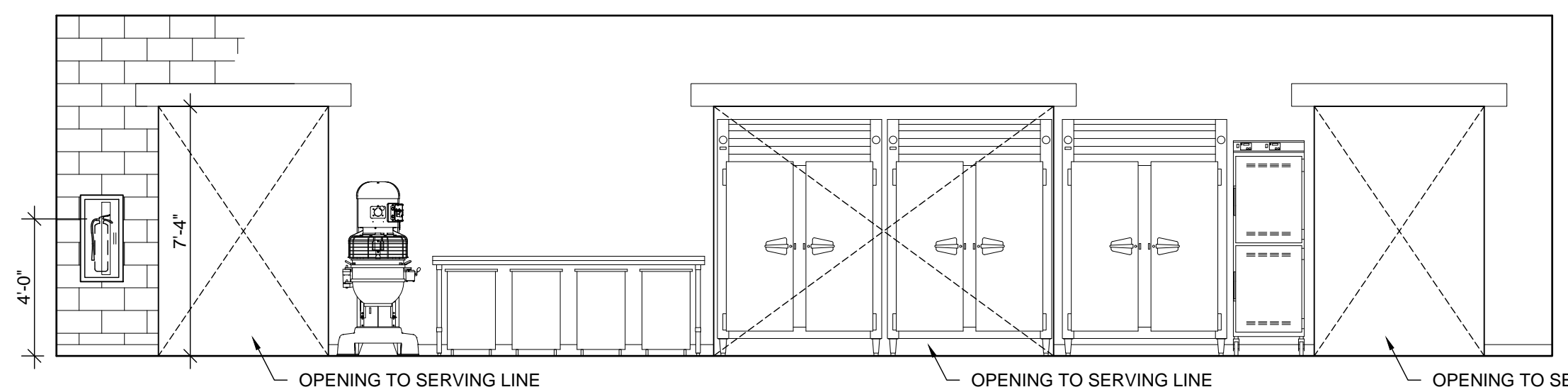
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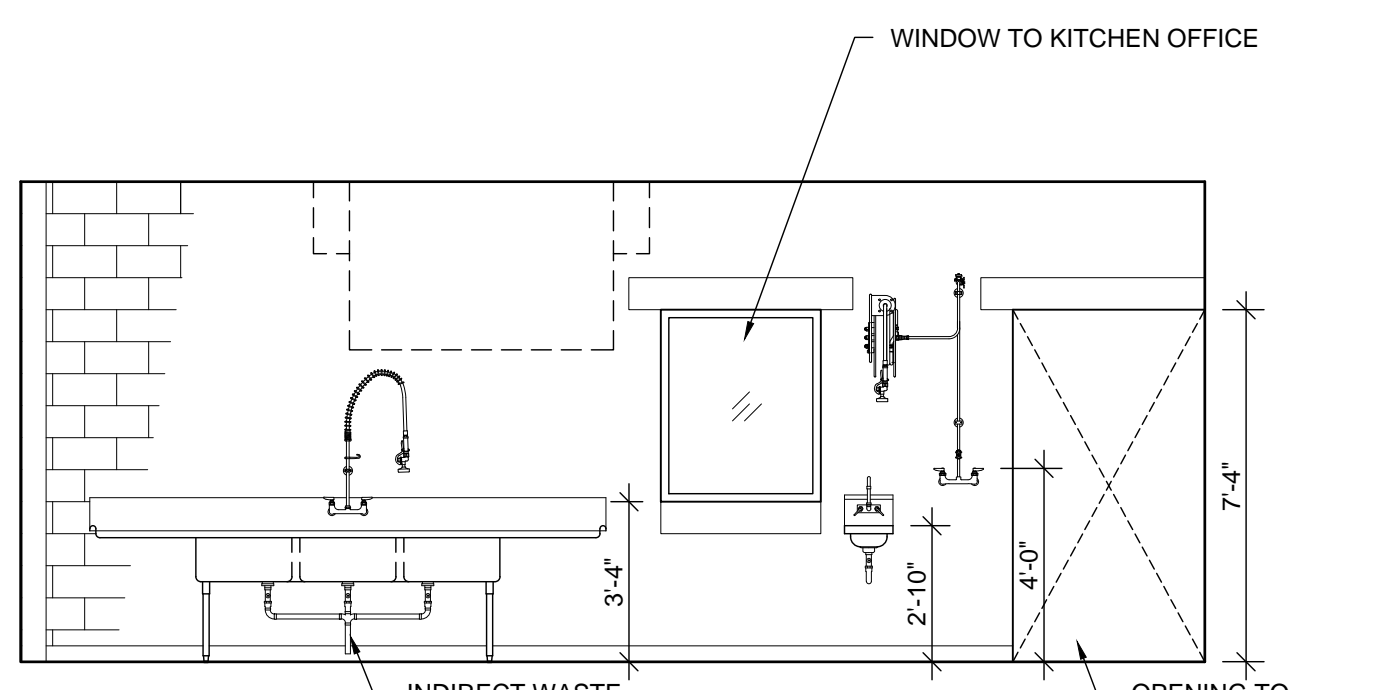
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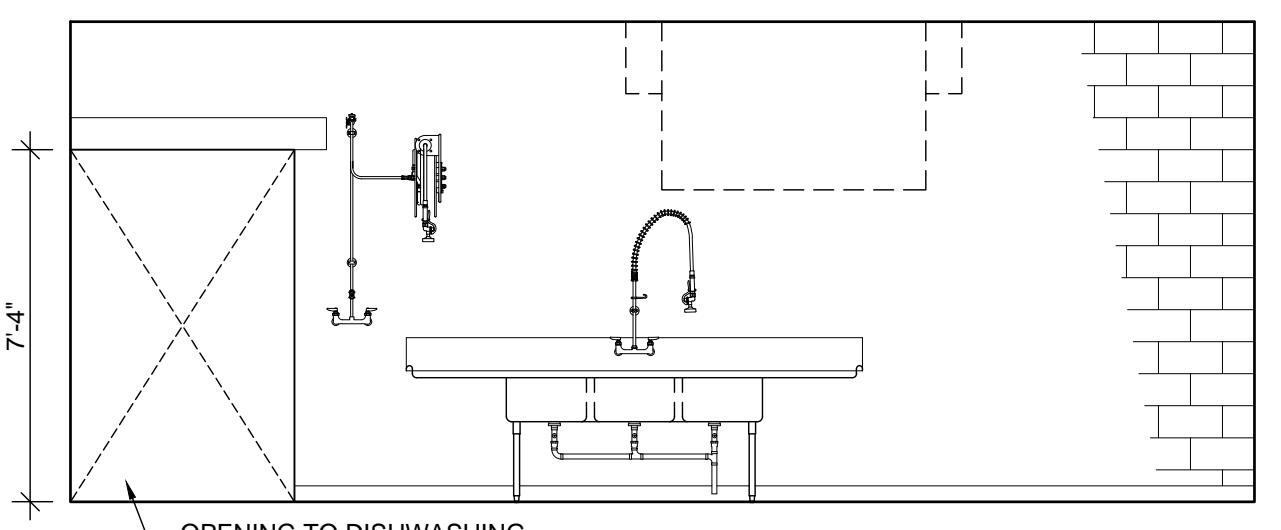
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 1/4" = 1'-0"



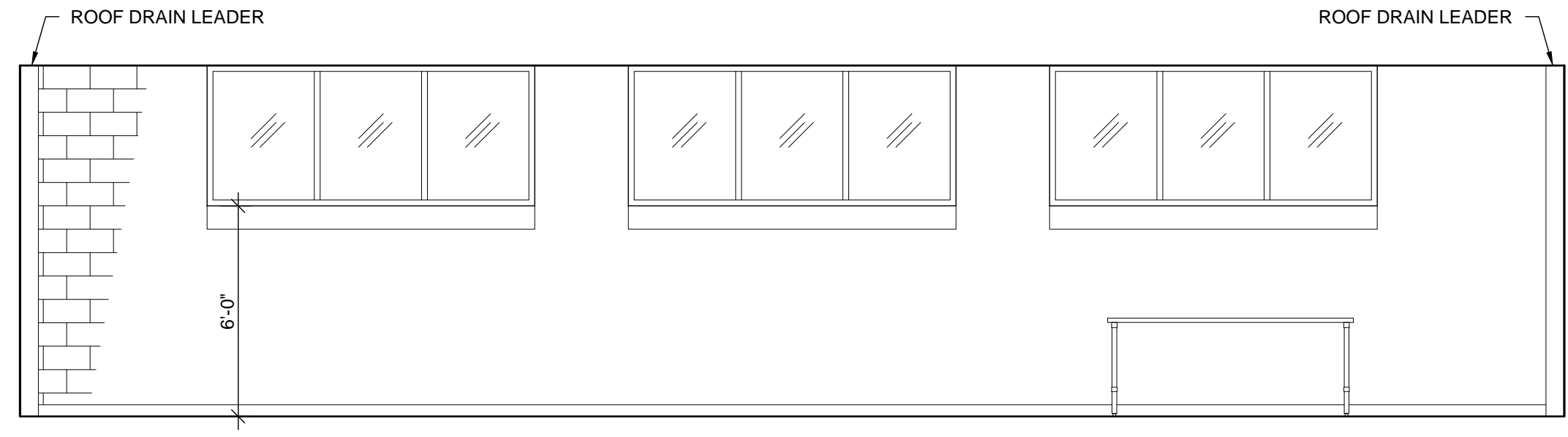
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 1/4" = 1'-0"



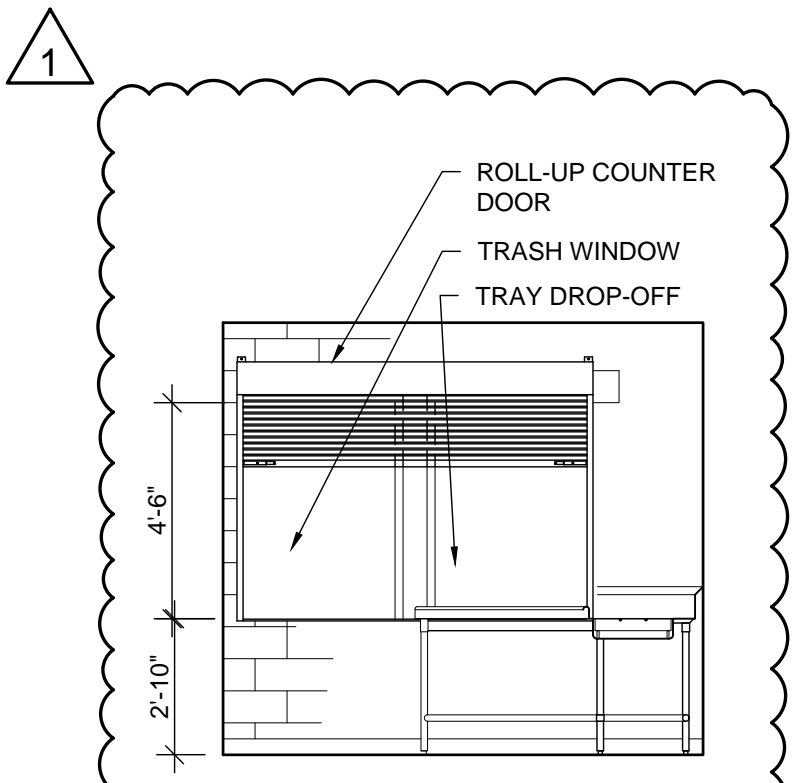
3 INT. ELEV.
 1/4" = 1'-0"



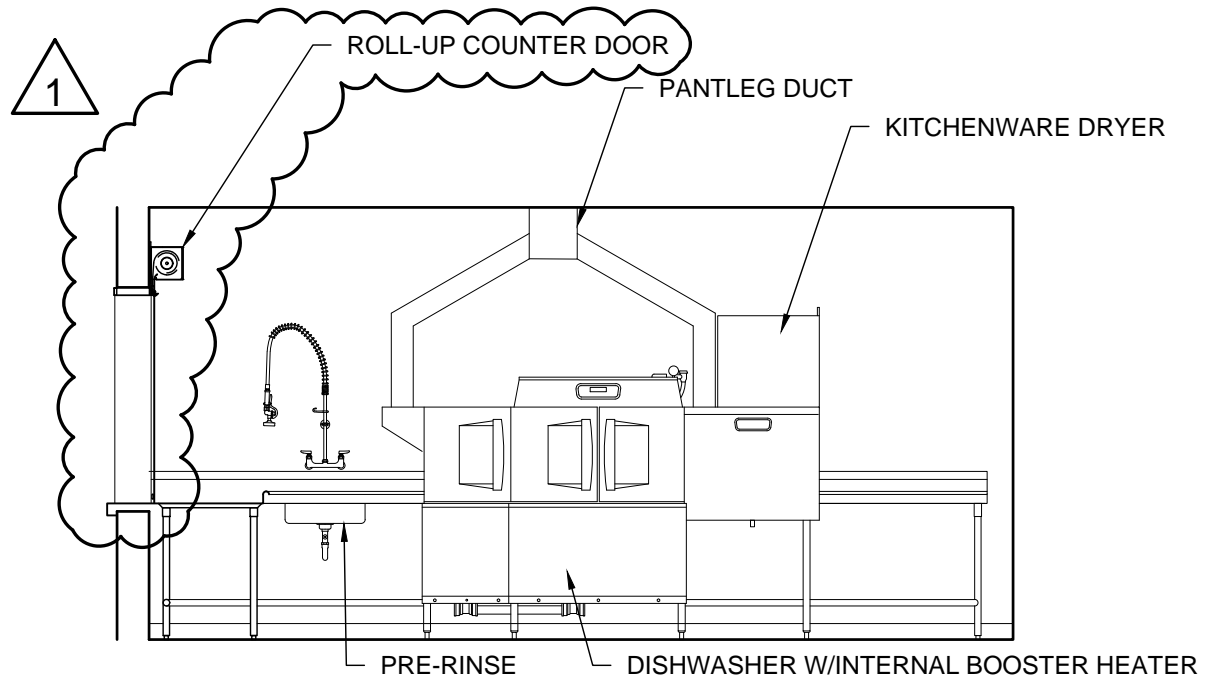
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 1/4" = 1'-0"



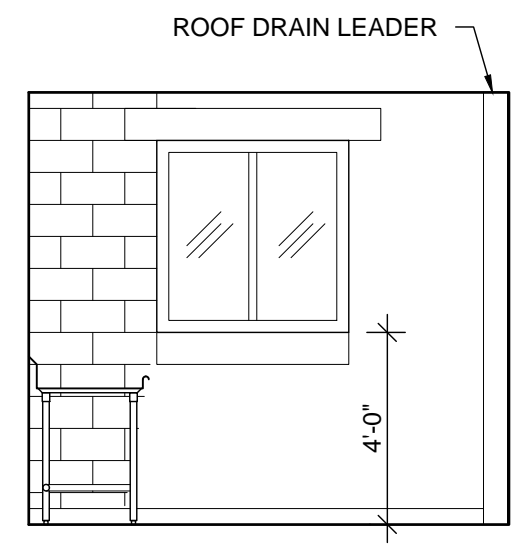
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 1/4" = 1'-0"



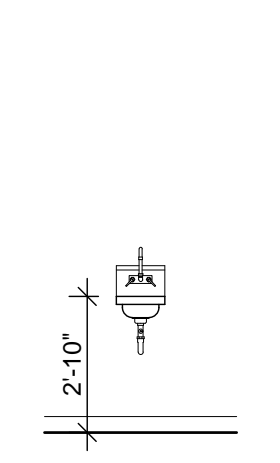
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 1/4" = 1'-0"



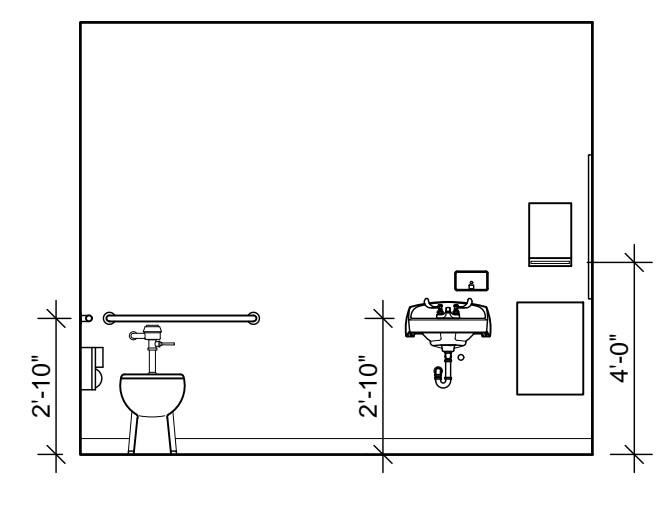
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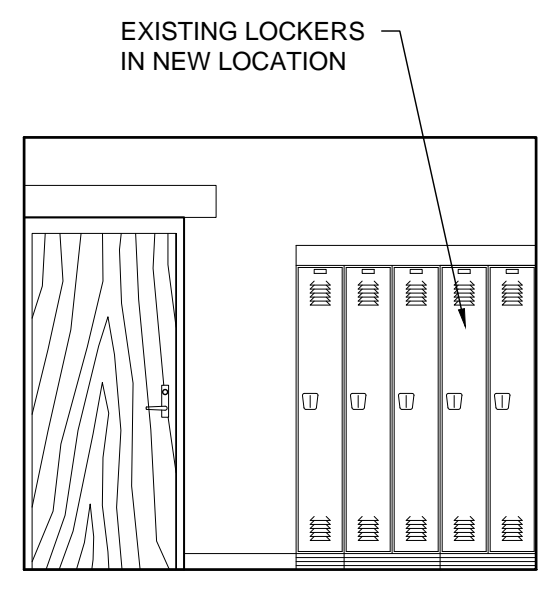
8 INT. ELEV.
 1/4" = 1'-0"



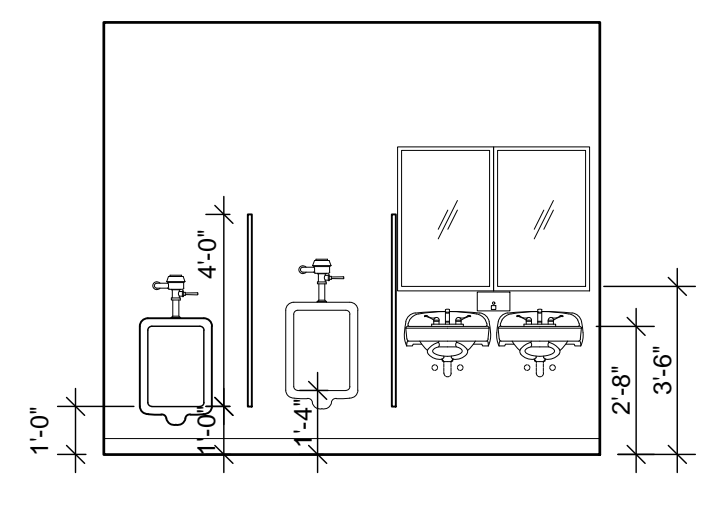
9 INT. ELEV.
 1/4" = 1'-0"



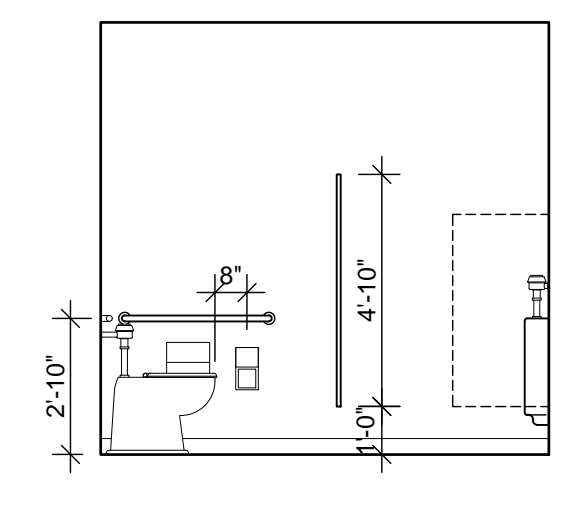
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 1/4" = 1'-0"



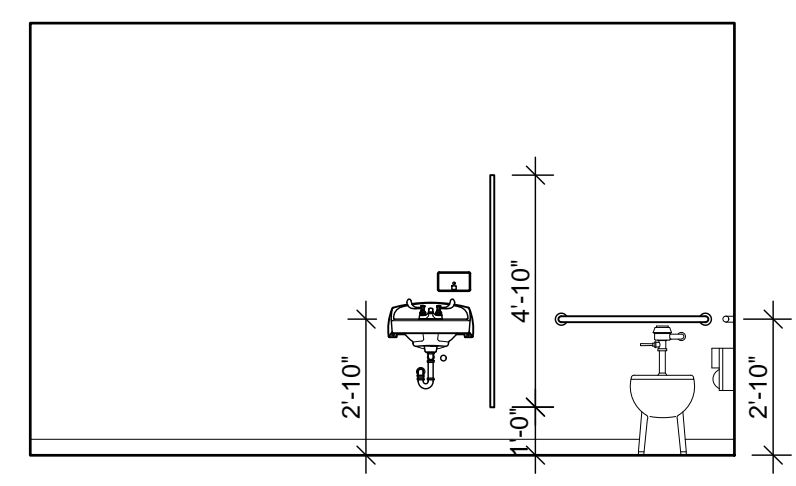
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 1/4" = 1'-0"



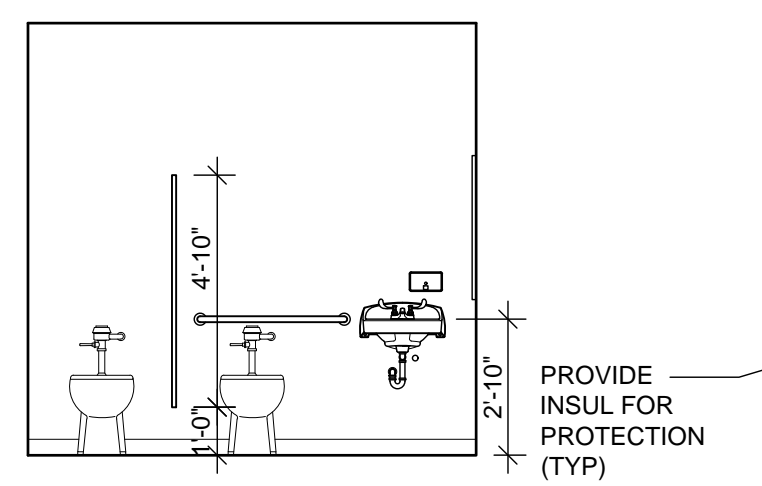
12 INT. ELEV.
 1/4" = 1'-0"



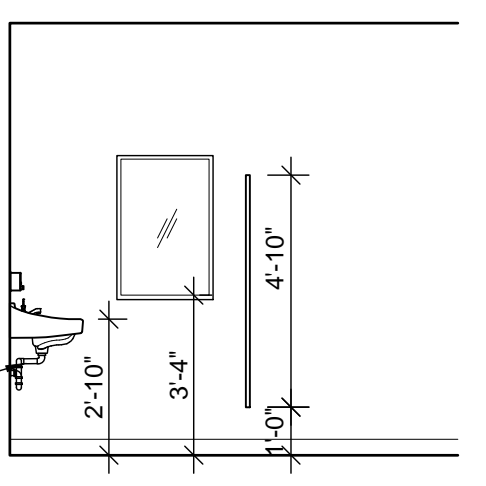
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 1/4" = 1'-0"



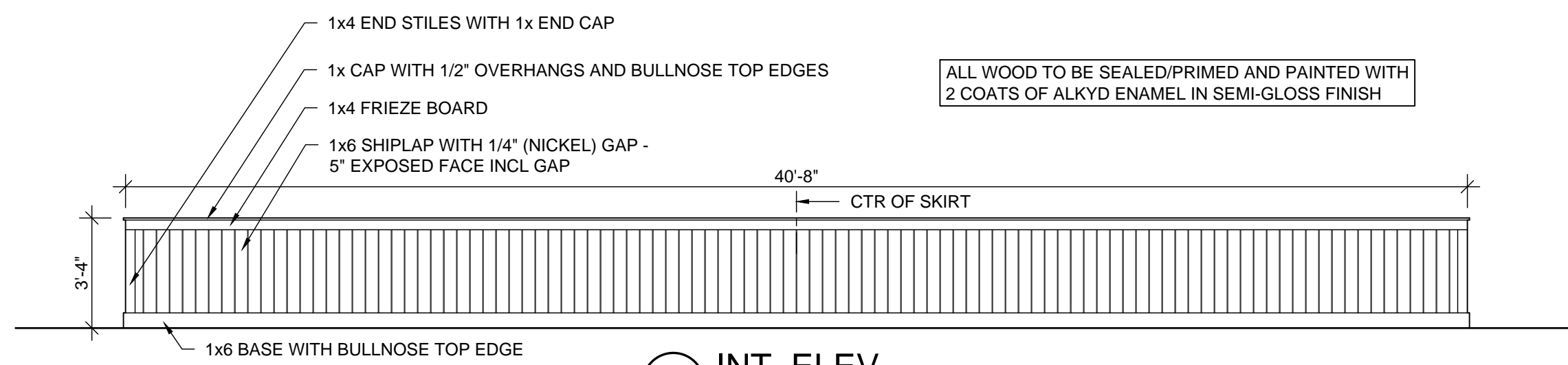
14 INT. ELEV.
 1/4" = 1'-0"



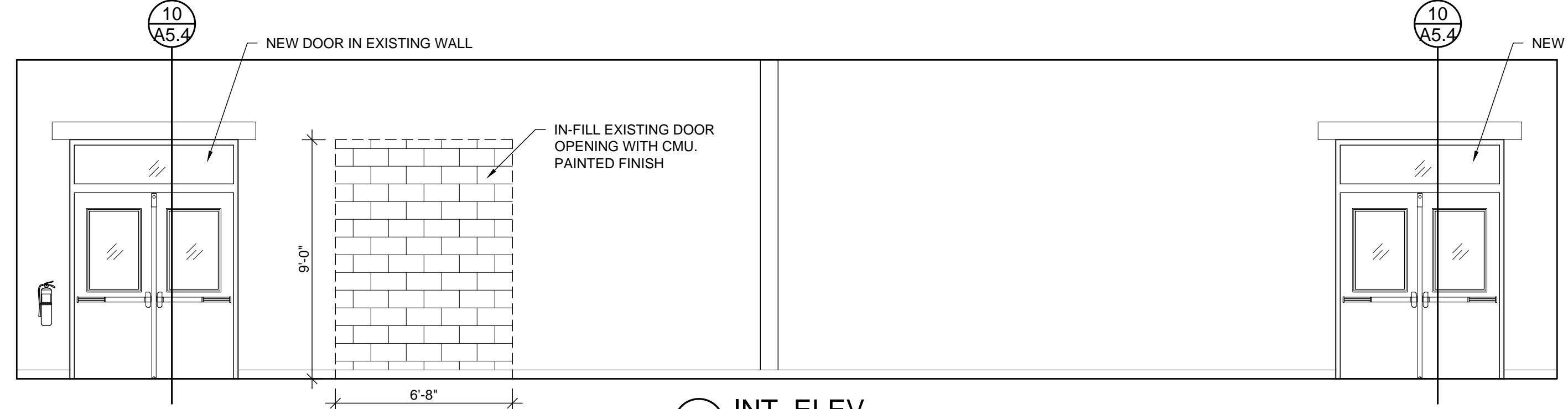
15 INT. ELEV.
 1/4" = 1'-0"



16 INT. ELEV.
 1/4" = 1'-0"



17 INT. ELEV.
 1/4" = 1'-0"

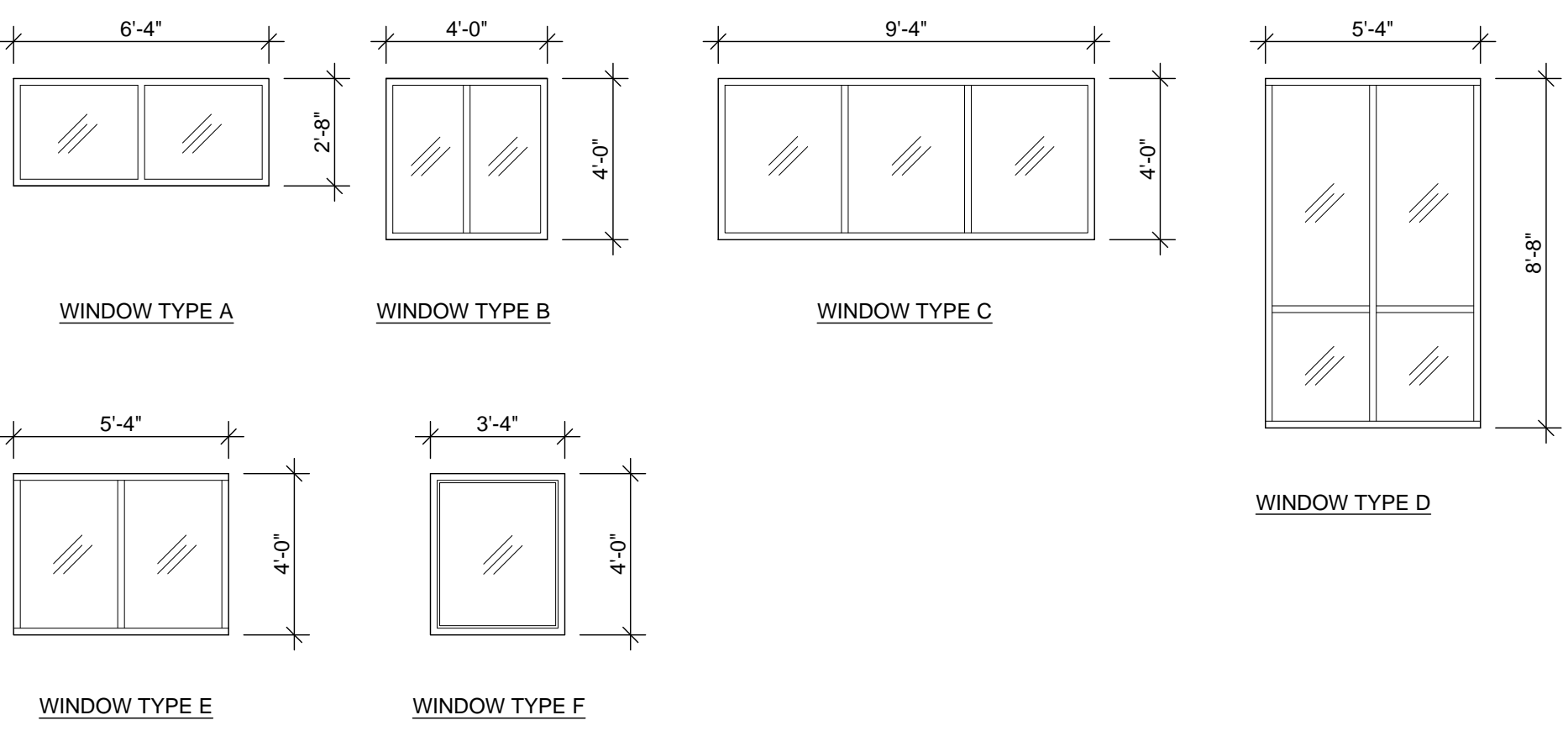


18 INT. ELEV.
 1/4" = 1'-0"

THIS DRAWING IS INTENDED TO BE PRINTED AT 1/4" = 1'-0"

| MARK | ROUGH OPENING W x H | LITES | TYPE | EGRESS CAPABLE REQD | FRAME | | GLAZING | HEAD MOUNTING HEIGHT* | NOTES |
|------|---------------------|-------|------|---------------------|----------|--------|------------|-----------------------|-------|
| | | | | | MATERIAL | FINISH | | | |
| A | 6'-4" x 2'-8" | 2 | SF | NO | ALUM | CLEAR | 1/2" INSUL | 7'-4" | |
| B | 4'-0" x 4'-0" | 2 | SF | NO | ALUM | CLEAR | 1/2" INSUL | 8'-0" | |
| C | 9'-4" x 4'-0" | 3 | SF | NO | ALUM | CLEAR | 1/2" INSUL | 10'-0" | |
| D | 5'-4" x 8'-8" | 2 | SF | NO | ALUM | CLEAR | 1/2" INSUL | 8'-8" | |
| E | 5'-4" x 4'-0" | 2 | SF | NO | ALUM | CLEAR | 1/2" INSUL | 21'-4" | |
| F | 3'-4" x 4'-0" | 1 | HM | NO | STEEL | PAINT | 1/4" TEMP | 7'-4" | |

GENERAL NOTES:
 1. ALL DIMENSIONS ARE ROUGH OPENINGS. DEDUCT FOR SHIM SPACE AS NEEDED.
 * HEAD HEIGHT BASED ON MAIN FLOOR ELEV OF 0'-0"



GENERAL DOOR & WINDOW NOTES:
 1. ALL EXTERIOR DOORS & WINDOWS TO HAVE CURRENT FLORIDA PRODUCT APPROVALS
 2. ALL WINDOWS SHALL MEET AAMA 101.
 3. ALL DOOR GLASS TO BE TEMPERED.
 4. SEE PLANS FOR QUANTITIES.
 5. FIELD VERIFY ALL SIZES BEFORE ORDERING. SIZES ON THE PLANS ARE NOMINAL AND INTENDED TO CONVEY DESIGN INTENT. VERIFY SIZES WITH MANUF. AND FIELD CONDITIONS AND PROVIDE REQUIRED ROUGH OPENING TO ENSURE PROPER INSTALLATION.
 6. PROVIDE WEATHERSTRIPPING & DOOR SWEEPS TO ALL EXTERIOR DOORS.
 7. PROVIDE NON-EXPANDING SEALANT AT ALL DOORS, WINDOWS AND ROOF PENETRATIONS.
 8. FLASH ALL WINDOWS PER AAMA 2400, AND PROVIDE SILL PANS PER ASTM E2112.

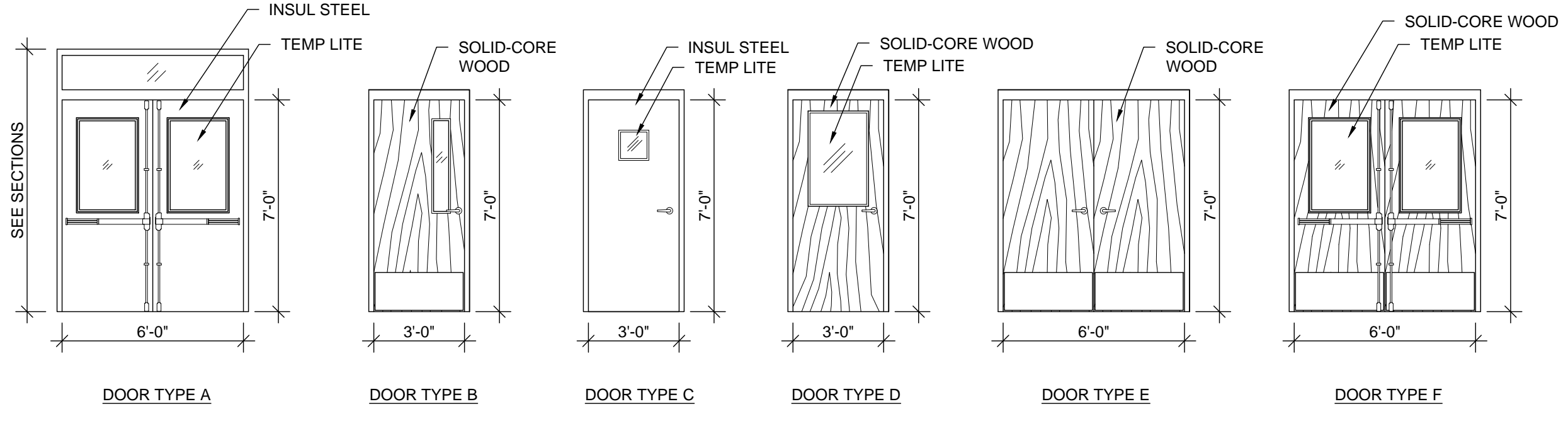
UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE ROUGH OPENING SIZES AND NOT INCLUDING SHIM SPACE

| NO | ROOM | SIZE W x H | THK | FRAME | | | DOOR | | | EXT | HWR GRP | LITES | NOTES |
|------|----------------|---------------|-------|-------|----------|--------|------|----------|--------|-----|---------|-------|-------|
| | | | | TYPE | MATERIAL | FINISH | TYPE | MATERIAL | FINISH | | | | |
| 107A | DINING | (2) 3' x 7' | 1 3/4 | HM | STEEL | PAINT | A | STEEL | PAINT | Y | 1 | TEMP | |
| 107B | DINING | (2) 3' x 7' | 1 3/4 | HM | STEEL | PAINT | A | STEEL | PAINT | Y | 1 | TEMP | |
| 107C | DINING | (2) 3' x 7' | 1 3/4 | HM | STEEL | PAINT | F | SC WD | STAIN | | 2 | TEMP | |
| 108 | DISHWASHING | 7'-6" x 4'-6" | - | - | - | - | G | S/S | S/S | | - | - | |
| 113A | SERVING | (2) 3' x 7' | 1 3/4 | HM | STEEL | PAINT | B | SC WD | STAIN | | 3 | TEMP | |
| 113B | SERVING | 3' x 7' | 1 3/4 | HM | STEEL | PAINT | B | SC WD | STAIN | | 3 | TEMP | |
| 113C | SERVING | 3' x 7' | 1 3/4 | HM | STEEL | PAINT | B | SC WD | STAIN | | 3 | TEMP | |
| 113D | SERVING | 3' x 7' | 1 3/4 | HM | STEEL | PAINT | B | SC WD | STAIN | | 3 | TEMP | |
| 116 | CIRCULATION | 3' x 7' | 1 3/4 | HM | STEEL | PAINT | C | STEEL | PAINT | Y | 4 | TEMP | |
| 118 | KITCHEN OFFICE | 3' x 7' | 1 3/4 | HM | STEEL | PAINT | D | SC WD | STAIN | | 5 | TEMP | |
| 121 | TOWER | (2) 3' x 7' | 1 3/4 | HM | STEEL | PAINT | A | STEEL | PAINT | Y | 1 | TEMP | |
| 122 | CHAIR STORAGE | (2) 3' x 7' | 1 3/4 | HM | STEEL | PAINT | E | SC WD | STAIN | | 6 | TEMP | |

GENERAL NOTES:
 1. ALL EXTERIOR DOORS TO COMPLY WITH FLORIDA PRODUCT APPROVAL.
 2. ALL INTERIOR WOOD DOORS TO BE OF SOLID-CORE CONSTRUCTION, U.N.O.
 3. ALL DOORS SHALL BE A.D.A. ACCESSIBLE, WITH A.D.A. COMPLIANT HARDWARE.

ABBREVIATIONS:
 FG FIBERGLASS/INSUL
 GWB GYPSUM WALLBOARD
 HM HOLLOW METAL
 OH OVERHEAD ROLL-UP
 SC SOLID-CORE (WOOD)
 SF STOREFRONT/ALUM
 TEMP TEMPERED GLASS
 WD SOLID-CORE WD

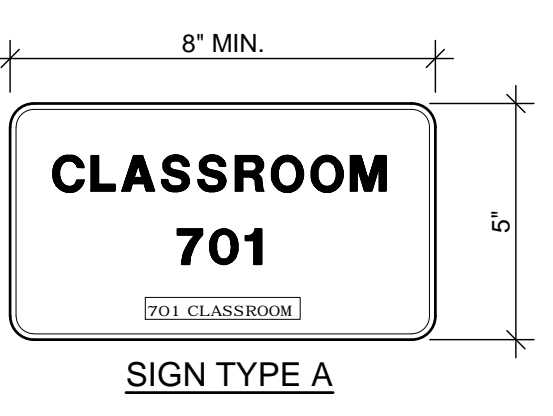
SPECIFIC NUMBERED NOTES FOR SCHEDULE:
 1. TEMPERED GLASS



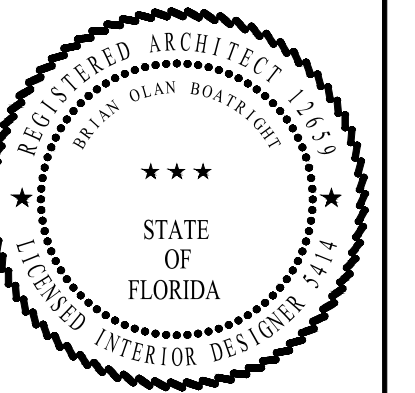
| NO | ROOM NAME | FLOOR | | | | | BASE | | | | WALLS | | CEILING | | | | CLG HT | NOTES |
|------|------------------|-------|----------------|-------------|--------------------|----------|----------------|----------------------|--------------------|------|-------------|--------------------|---------------|-----|------|--------------------|--------|-------|
| | | EPOXY | PORCELAIN TILE | SHEET VINYL | EXISTING NO CHANGE | CONCRETE | INTEGRAL EPOXY | INTEGRAL SHEET VINYL | EXISTING NO CHANGE | NONE | EPOXY PAINT | EXISTING NO CHANGE | ACOUSTIC TILE | GWB | OPEN | EXISTING NO CHANGE | | |
| 100 | CIRCULATION | | | | X | | | X | | | X | | | | X | 9'-0" | | |
| 101 | CIRCULATION | | | | X | | | X | | | X | | | | X | 9'-0" | | |
| 102 | BOYS | | | | X | | | | X | | | | X | | X | 9'-0" | 1 | |
| 103 | STAGE | | | | X | | | X | | | X | | | | X | 9'-0" | | |
| 104 | CUSTODIAN | | | | X | | | X | | | X | | | | X | 9'-0" | | |
| 105 | GIRLS | | | | X | | | X | | X | | | X | | X | 9'-0" | 1 | |
| 106 | CIRCULATION | | | | X | | | X | | | X | | | | X | 9'-0" | | |
| 107 | DINING ROOM | | | X | | | X | | | X | | X | | | | 12'-0" | | |
| 108 | DISH WASHING | X | | | | | X | | | X | | X | | | | 9'-0" | | |
| 108A | CUSTODIAN | | | | X | | | X | | | X | | | | X | 9'-0" | | |
| 109 | GARBAGE/CAN WASH | | | | X | | | X | | | X | | | | X | 9'-0" | | |
| 110 | WATER HEATER | | | | X | | | X | | | X | | | | X | 9'-0" | | |
| 111 | STAFF RESTROOM | X | | | | | X | | X | | | X | | | | 9'-0" | 1 | |
| 112 | FOOD PREP | X | | | | | X | | X | | X | | | | | 10'-0" | | |
| 113 | SERVING LINE | X | | | | | X | | X | | X | | | | | 9'-0" | | |
| 114 | COOLER | | | | X | | | X | | X | | | | | X | 9'-0" | | |
| 115 | FREEZER | | | | | X | | | X | | | | | | | 9'-0" | | |
| 116A | CIRCULATION | X | | | | | X | | X | | | | | X | | 9'-0" | 1 | |
| 116B | CIRCULATION | X | | | | | X | | X | | | | | X | | 9'-0" | 1 | |
| 116C | CIRCULATION | X | | | | | X | | X | | X | | | | | 9'-0" | | |
| 117 | DRY STORAGE | | | | X | | | X | | X | | | | | X | 9'-0" | | |
| 118 | KITCHEN OFFICE | X | | | | | X | | X | | | X | | | | 9'-0" | | |
| 119 | LOADING DOCK | | | | X | | | X | | X | | | | X | | 9'-0" | | |
| 120 | LOBBY | | X | | | | X | | X | | | X | | | | 9'-0" | | |
| 121 | TOWER | | X | | | | X | | X | | | X | | | | 22'-0" | | |
| 122 | CHAIR STORAGE | | X | | | | X | | X | | | X | | | | 9'-0" | | |

NOTES:
 1. PATCH WALLS AND CEILING WITH MATCHING MATERIALS AND COLORS.

| SIGN No. | PLAN ROOM No. | ROOM NAME | SIGN | | MOUNTING | | NOTES |
|----------|---------------|------------------|------|------------------|----------|-------|-------|
| | | | No. | SIGN TEXT | TYPE | HT. | |
| 108 | 108 | DISHWASHING | 108 | DISHWASHING | A | 5'-0" | 1 |
| 112 | 112 | FOOD PREPARATION | 112 | FOOD PREPARATION | A | 5'-0" | 1 |
| 113 | 113 | SERVING LINE | 113 | SERVING LINE | A | 5'-0" | 1 |
| 118 | 118 | KITCHEN OFFICE | 118 | KITCHEN OFFICE | A | 5'-0" | 1 |
| 122 | 122 | CHAIR STORAGE | 122 | CHAIR STORAGE | A | 5'-0" | 1 |



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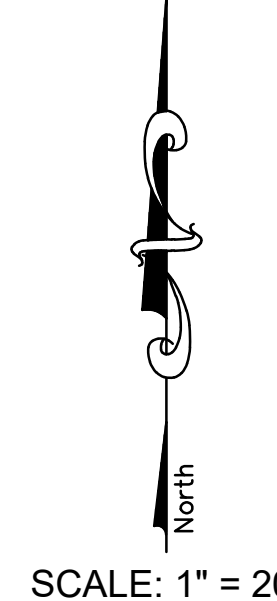
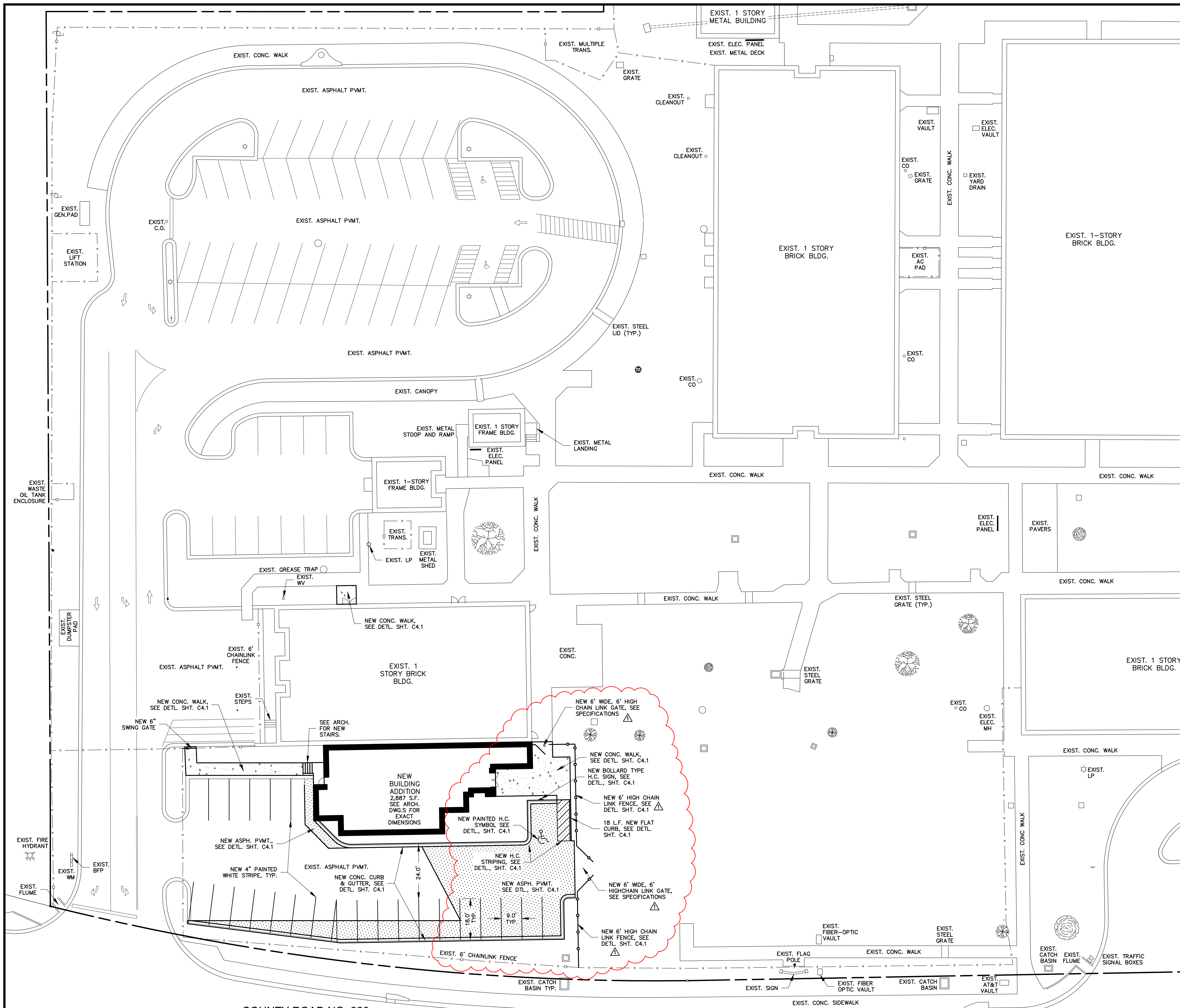
EXPANSION OF
DOCTORS INLET ELEMENTARY CAFETERIA
 2634 C.R. 220, MIDDLEBURG, FL 32068

| REVISIONS | | |
|-----------|---------|---------|
| NO | DATE | COMMENT |
| 1 | 9-16-19 | ADD 1 |
| 2 | 10-5-19 | ADD 3 |

JOB NO. 182000
 DATE 9-12-19
 DRAWN BY BOB
 CHECKED BY BOB

A7.1

THIS DRAWING IS INTENDED TO BE PRINTED AT 1/8" = 1'-0"



NOTES:
 ELEVATIONS AND LOCATION INFORMATION FOR EXISTING BUILDINGS, FEATURES AND UTILITIES ARE BASED ON SURVEY BY HAROLD T. EILAND, L.S. 2519

CONTRACTOR SHALL EMPLOY A PROFESSIONAL SURVEYOR, LICENSED BY THE STATE OF FLORIDA, TO PERFORM LAYOUT OF ALL NEW SITE FEATURES, ESPECIALLY CURBS. ELECTRONIC COPIES OF CIVIL PLANS WILL BE PROVIDED FOR THIS PURPOSE.

CONTRACTOR IS RESPONSIBLE FOR LAYOUT ACCURACY.

CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO EXCAVATION FOR STRUCTURES OR PIPING. REPORT ANY CONFLICTS TO THE ENGINEER IMMEDIATELY. CONTRACTOR TO LOCATE ALL UTILITIES AND COORDINATE ALL WORK WITH ADJACENT LAND OWNER AND ALL UTILITY COMPANIES. ANY PIPES, CABLES OR CONDUIT CUT OR DAMAGED WILL BE REPAIRED BY THE CONTRACTOR AND ANY ASSOCIATED COST BORN BY THE CONTRACTOR. ANY UTILITY RELOCATION WORK WILL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

THE CONTRACTOR SHALL ENGAGE THE SERVICES OF AN INDEPENDENT TESTING LABORATORY, PAID FOR BY THE CONTRACTOR, TO TEST SOILS, LIMEROCK, ASPHALT AND CONCRETE AS INSTALLED TO ENSURE COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. COPIES OF ALL TEST REPORTS ARE TO BE PROVIDED TO THE ENGINEER IN A TIMELY MANNER.

RADI AT PARKING SPACES ARE TO BE 2.5'

DIMENSIONS AT CURBS REFER TO FACE OF CURB

CONTRACTOR IS RESPONSIBLE FOR JOBSITE SAFETY.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE CAREFULLY INSPECTED THE SITE DURING THE BIDDING PERIOD TO DETERMINE THE EXTENT AND NATURE OF THE WORK AND THE CONDITIONS UNDER WHICH IT MUST BE PERFORMED.

LEGEND

| | | | |
|--|-----------------------------|--|------------------------------------|
| | EXIST. BUILDING | | NEW BUILDING |
| | EXIST. CONC. OR ASPH. PVMT. | | NEW CONCRETE PAVEMENT, WALK OR PAD |
| | EXIST. CURB & GUTTER | | NEW CONC. CURB & GUTTER |
| | | | NEW ASPHALT PAVEMENT |

GRAPHIC SCALE
 20 0 10 20 40 80
 (IN FEET)
 1 inch = 20 ft.

FILE: DR INLET ELEMENTARY - CAFETERIA ADDITION.DWG
 PLOT DATE: 10/3/19

COUNTY ROAD NO. 220
 (100' Right-of-Way)

ISSUED FOR CONSTRUCTION

| REV. | DATE | DESCRIPTION |
|------|---------|---------------|
| 0 | 7/28/19 | INITIAL ISSUE |
| 1 | 10/3/19 | ADDENDUM #3 |

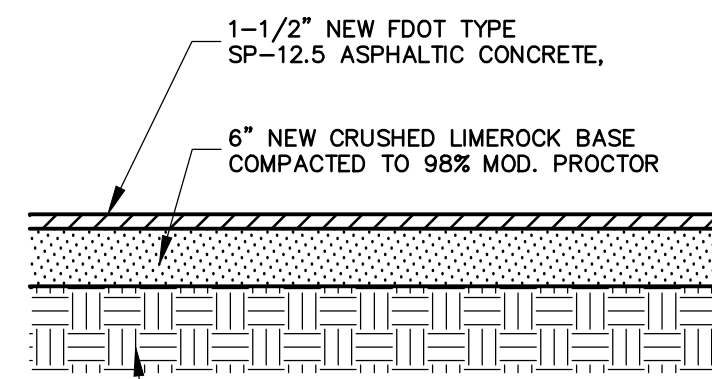
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 FL P.E. #33532

Expansion of DOCTORS INLET ELEMENTARY CAFETERIA
 2634 County Road 220
 Doctors Inlet, FL

SITE PLAN - BUILDING AREA

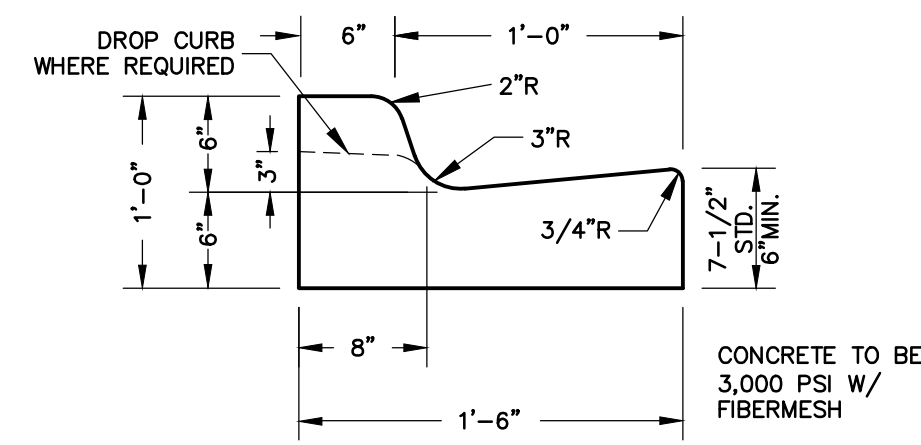
C1.1

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NOTES:
 AT THE CONTRACTOR'S OPTION, AN ADDITIONAL 3 INCHES OF COMPACTED, CRUSHED LIMEROCK BASE MAY BE PROVIDED IN LIEU OF STABILIZATION. SUB-BASE SHALL BE COMPACTED AS ABOVE IN ANY EVENT.
 CRUSHORETE MAY BE USED IN LIEU OF LIMEROCK

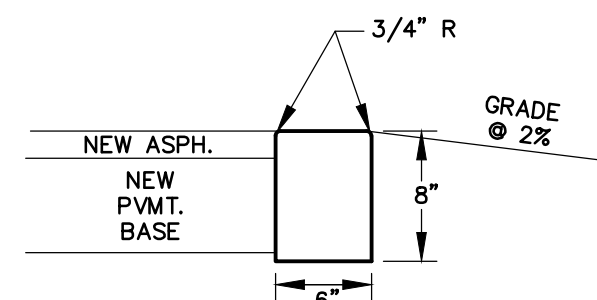
TYPICAL SECTION FOR NEW ASPHALT PAVEMENT
 N.T.S.



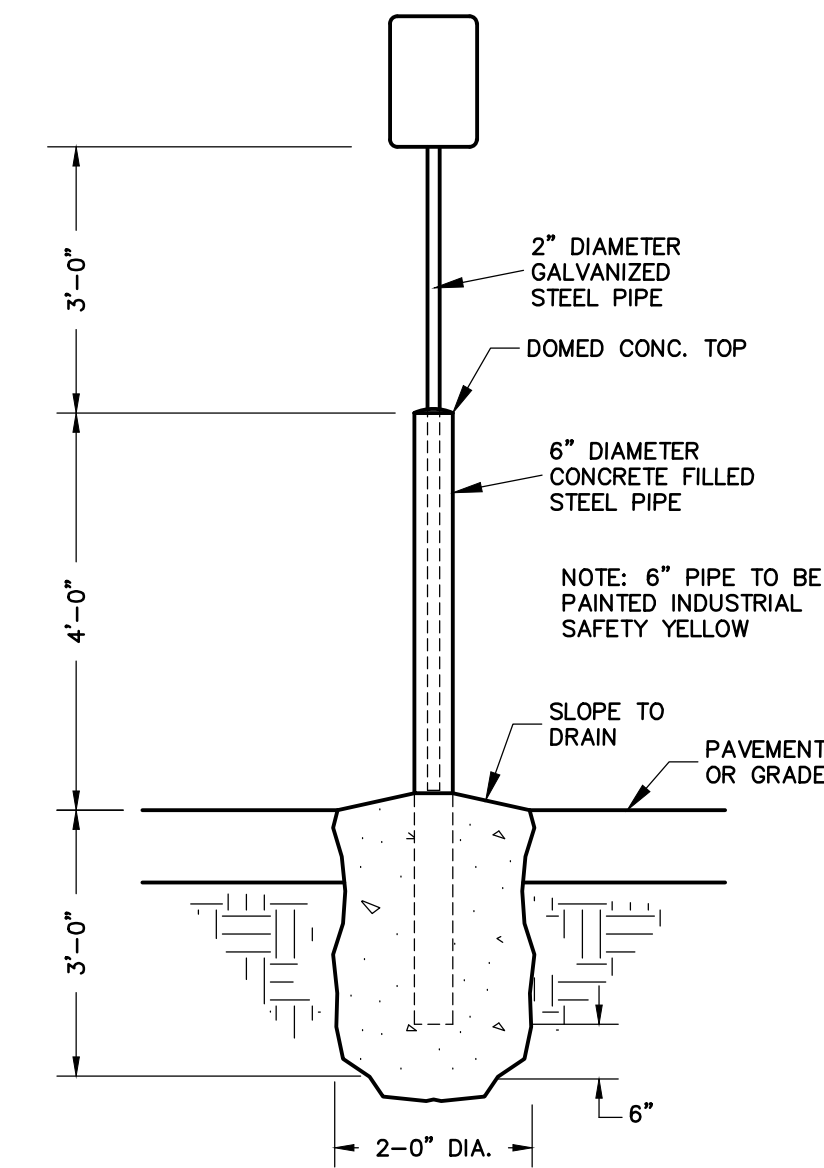
WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6".

CONC. CURB & GUTTER
 N.T.S.

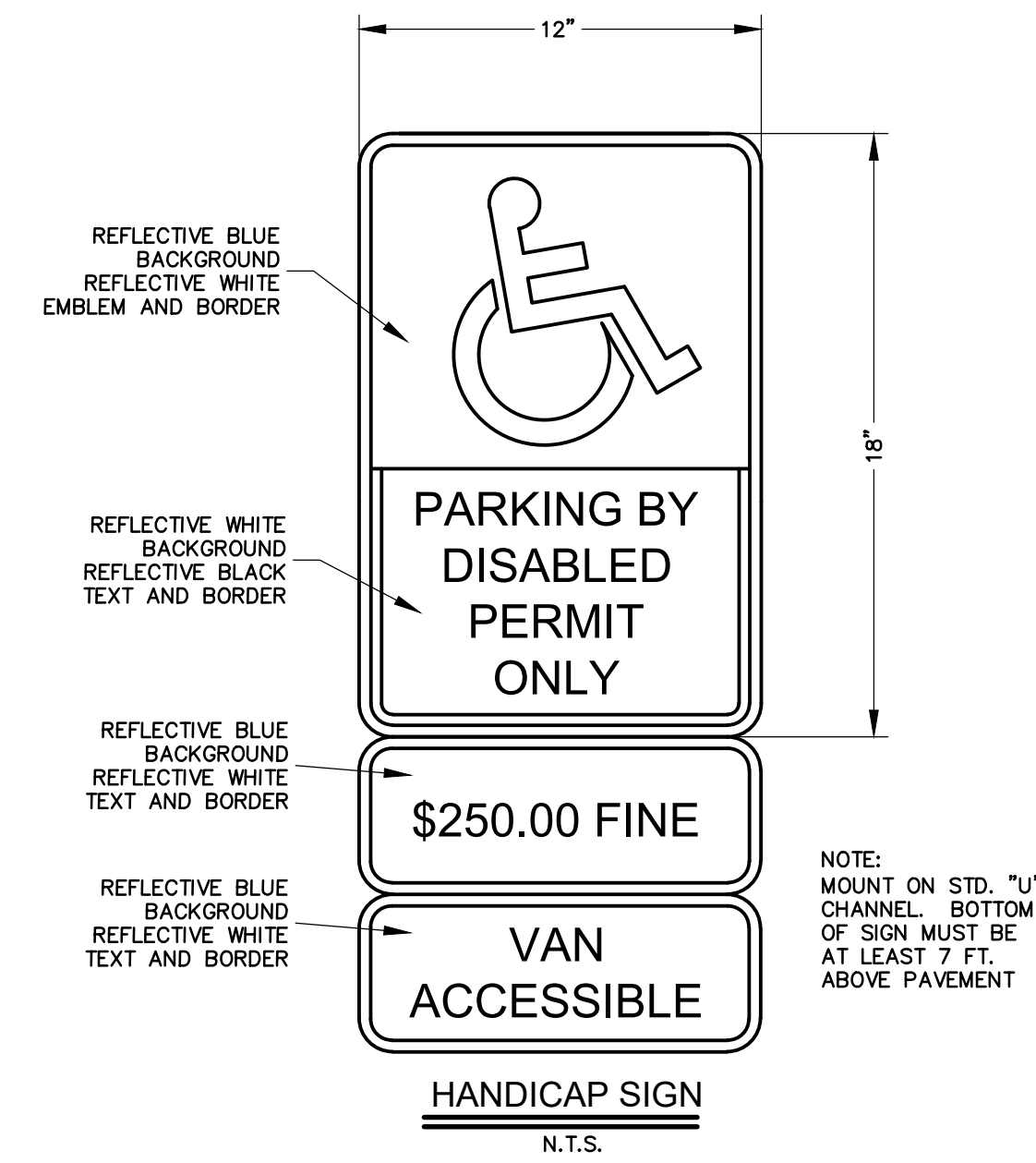
NOTE: BACKSLOPE BEHIND CURBS $\pm 6:1$ MAX. FOR FIRST 5 FT.



FLAT CURB
 N.T.S.

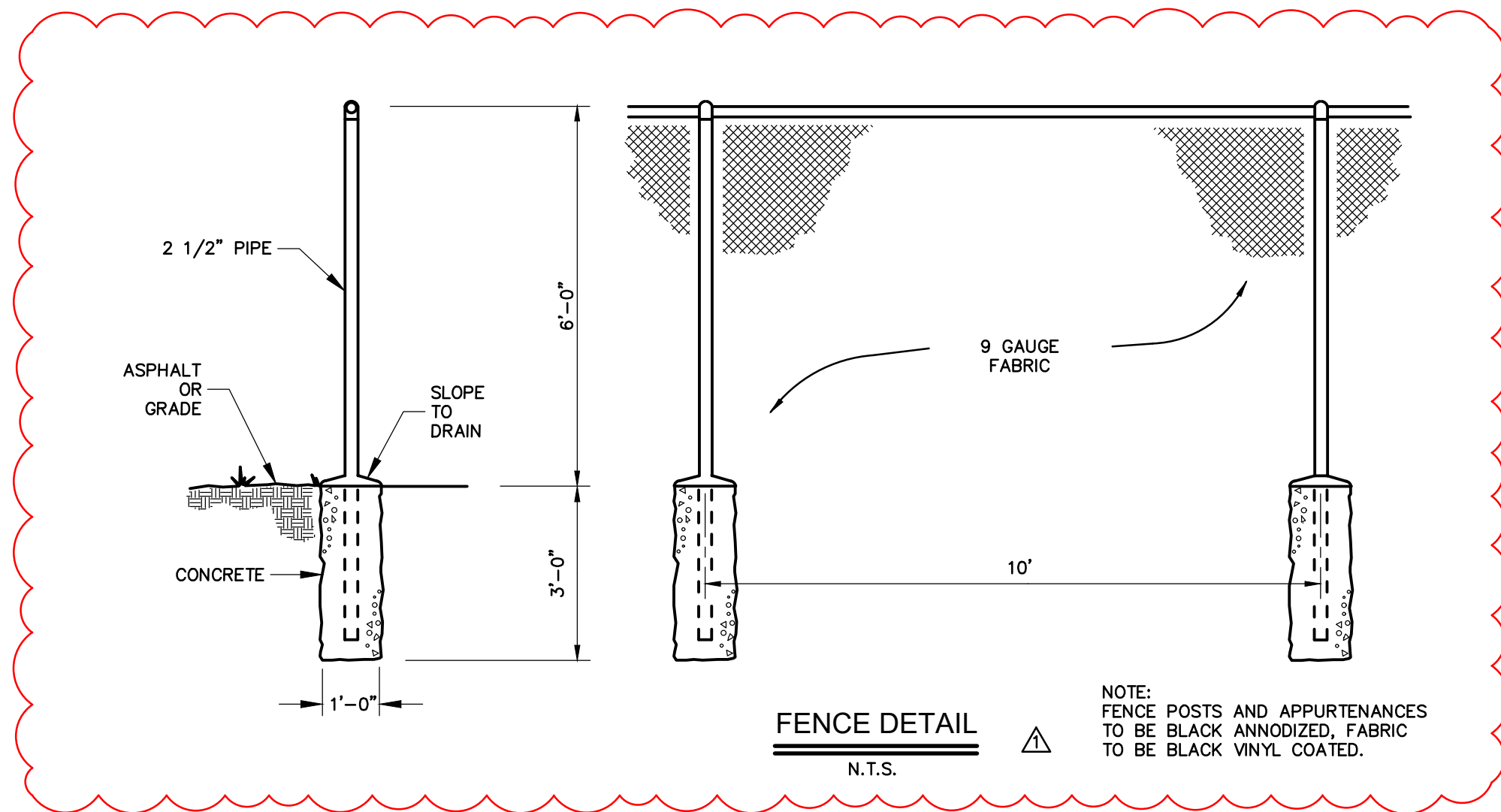


BOLLARD TYPE SIGN POST DETAIL
 N.T.S.



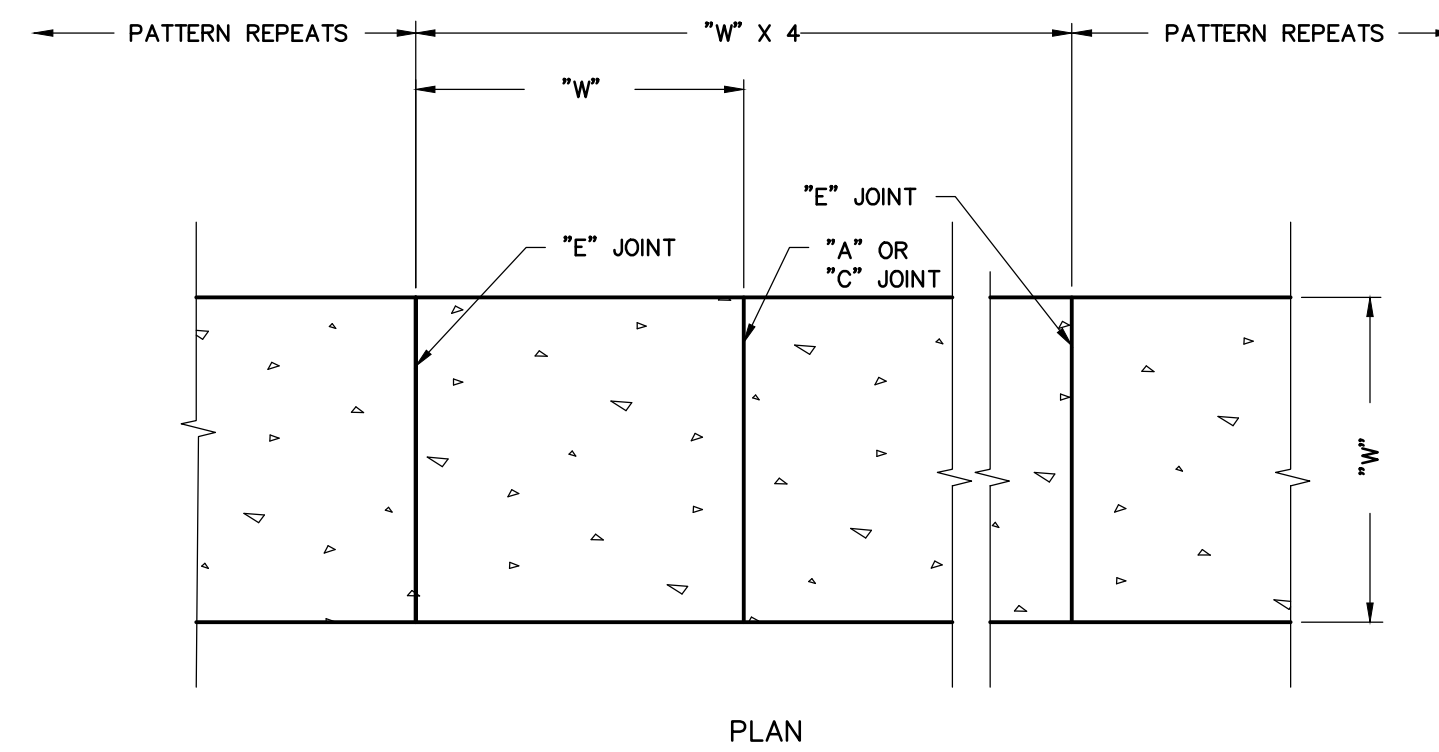
NOTE: MOUNT ON STD. "U" CHANNEL. BOTTOM OF SIGN MUST BE AT LEAST 7 FT. ABOVE PAVEMENT

HANDICAP SIGN
 N.T.S.

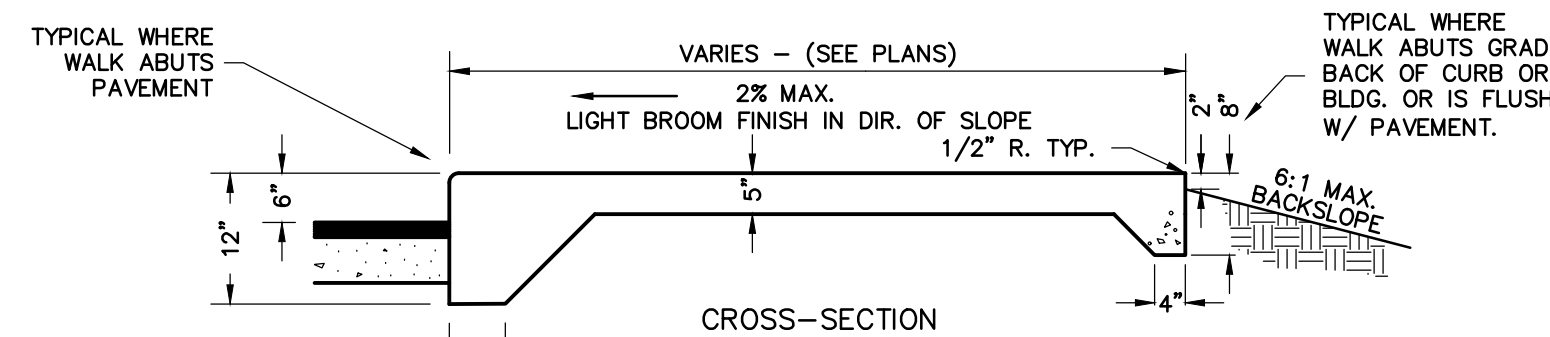


FENCE DETAIL
 N.T.S.

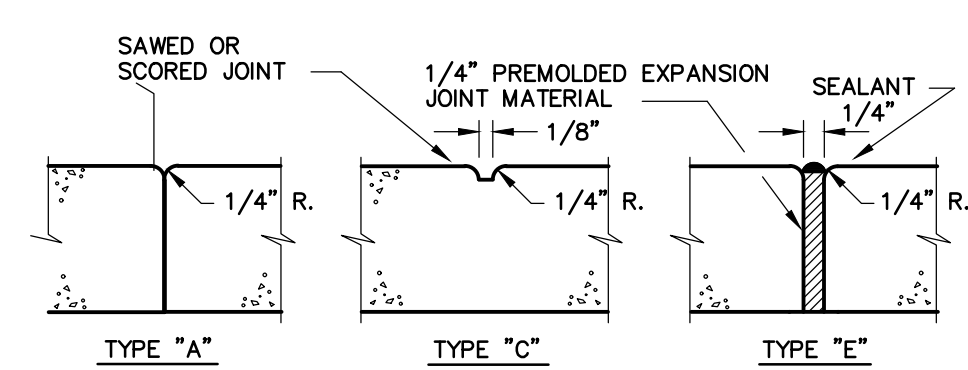
NOTE: FENCE POSTS AND APPURTENANCES TO BE BLACK ANODIZED, FABRIC TO BE BLACK VINYL COATED.



PLAN

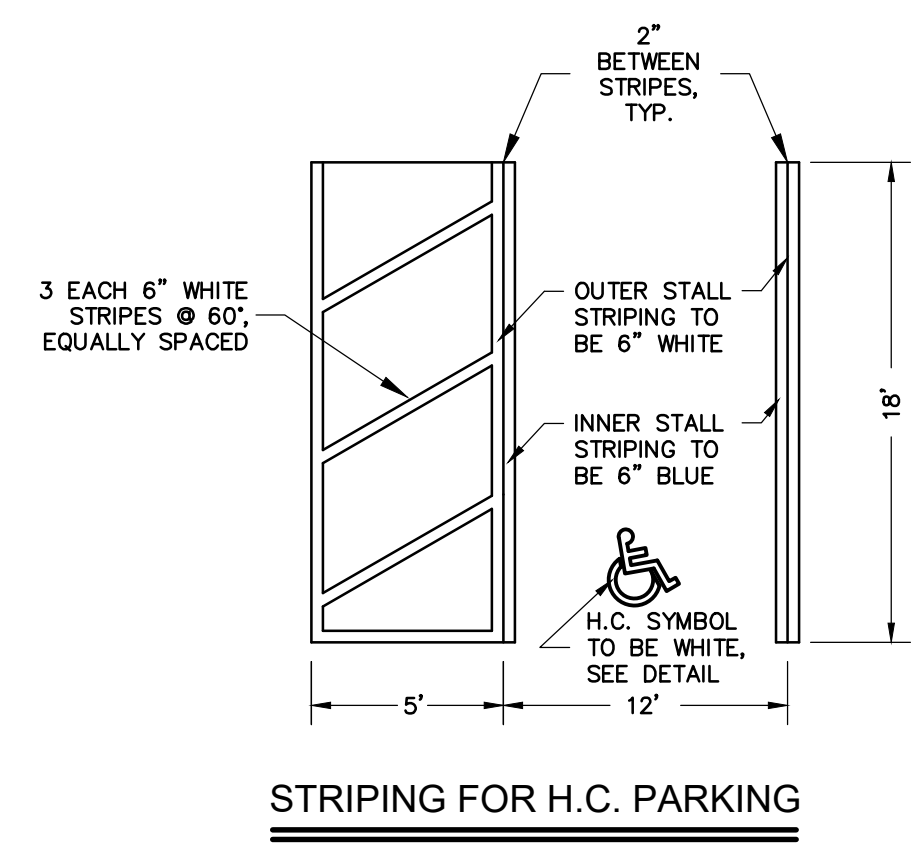


CROSS-SECTION

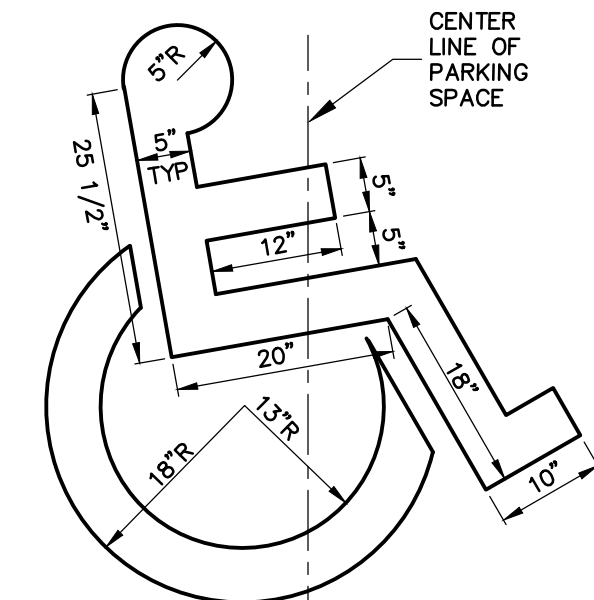


NOTES:
 ALL WALKS ARE TO BE BROOM FINISHED IN THE DIRECTION OF THE SLOPE OF THE WALK.
 CONCRETE DESIGN STRENGTH TO BE 3000 PSI.
 ALL WALKS ARE TO BE REINFORCED W/ FIBERMESH
 PROVIDE "E" JOINTS WHERE WALK ABUTS CURBS, BUILDINGS OR APRONS

SIDEWALK DETAILS
 N.T.S.

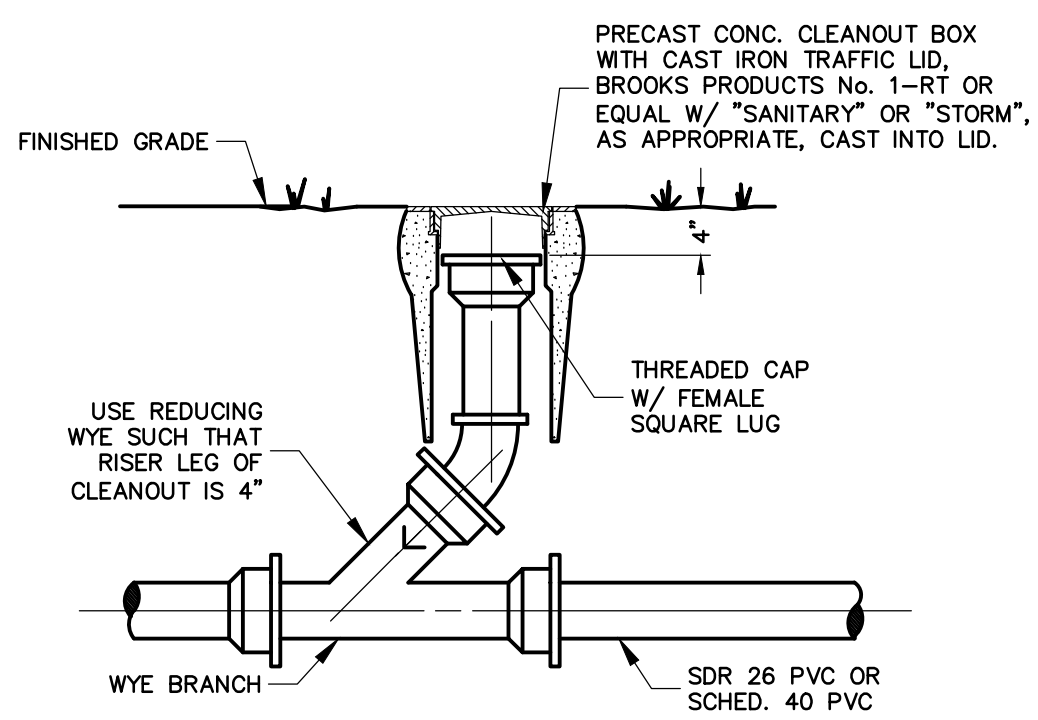


STRIPING FOR H.C. PARKING
 N.T.S.



NOTE:
 PAINT SYMBOL APPROX. 1/2 SIZE SHOWN.
 SYMBOL SHALL BE PAINTED WITH WHITE TRAFFIC PAINT WITHIN OUTLINE SHOWN.

HANDICAP SYMBOL
 N.T.S.



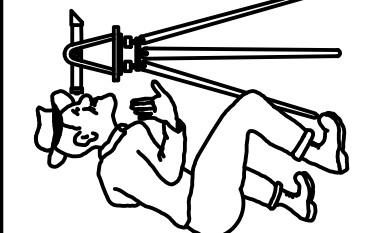
SANITARY SEWER/STORM DRAIN CLEANOUT
 N.T.S.

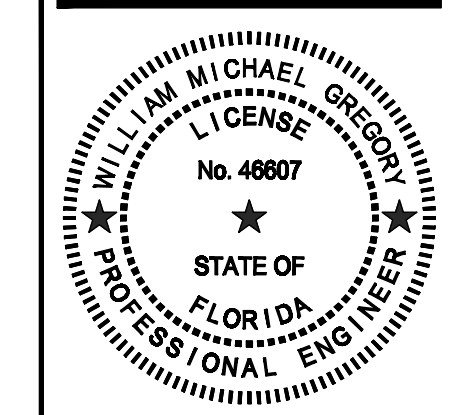
| REV. | DATE | DESCRIPTION |
|------|---------|---------------|
| 1 | 10/2/19 | ADDENDUM #3 |
| 0 | 7/28/19 | INITIAL ISSUE |

SITE DETAILS

Expansion of
DOCTORS INLET ELEMENTARY CAFETERIA
 2634 County Road 220
 Doctors Inlet, FL

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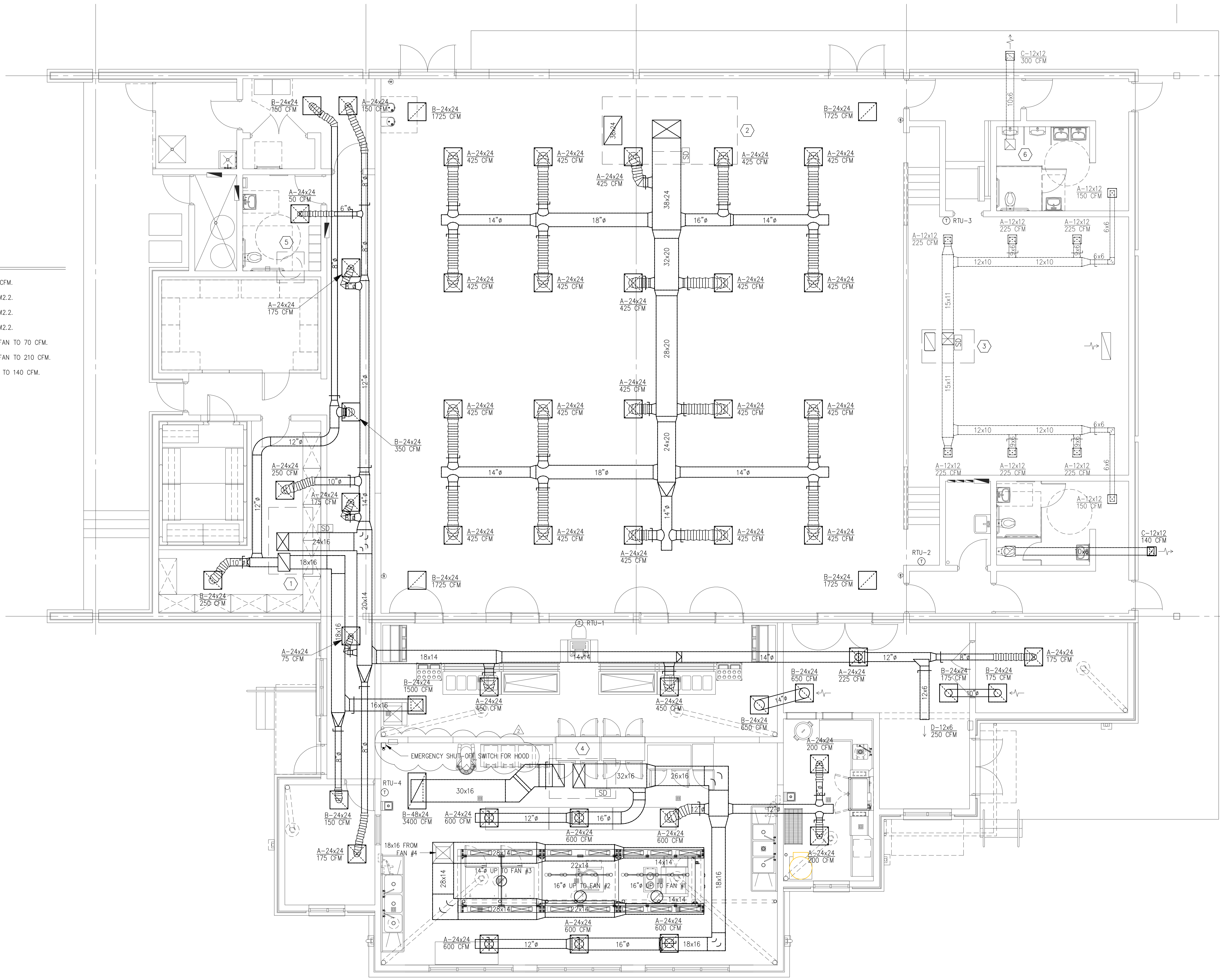
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MECHANICAL PLAN NOTES

- 1 EXISTING RTU-1 ON ROOF ABOVE; SET O/A DAMPER TO 150 CFM.
- 2 NEW RTU-2 ON ROOF ABOVE; REFER TO RTU SCHEDULE ON M2.2.
- 3 NEW RTU-3 ON ROOF ABOVE; REFER TO RTU SCHEDULE ON M2.2.
- 4 NEW RTU-4 ON ROOF ABOVE; REFER TO RTU SCHEDULE ON M2.2.
- 5 EXISTING RESTROOM EXHAUST SYSTEM TO REMAIN; BALANCE FAN TO 70 CFM.
- 6 EXISTING RESTROOM EXHAUST SYSTEM TO REMAIN; BALANCE FAN TO 210 CFM.
- 7 EXISTING RESTROOM EXHAUST FAN TO REMAIN; BALANCE FAN TO 140 CFM.



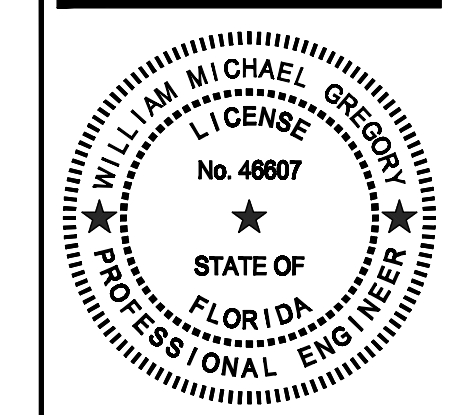
1 MECHANICAL FLOOR PLAN
 M1.2 SCALE: 3/16" = 1'-0"

EXPANSION OF
DOCTORS INLET ELEMENTARY CAFETERIA
 2634 C.R. 220, MIDDLEBURG, FL 32068

| REVISIONS | | |
|-----------|----------|-------------|
| NO. | DATE | COMMENT |
| 1 | 08-24-19 | ADDENDUM #2 |
| 2 | 10-05-19 | ADDENDUM #3 |

JOB NO. 182000
 DATE 8-22-19
 DRAWN BY WMG
 CHECKED BY WMG

M1.2



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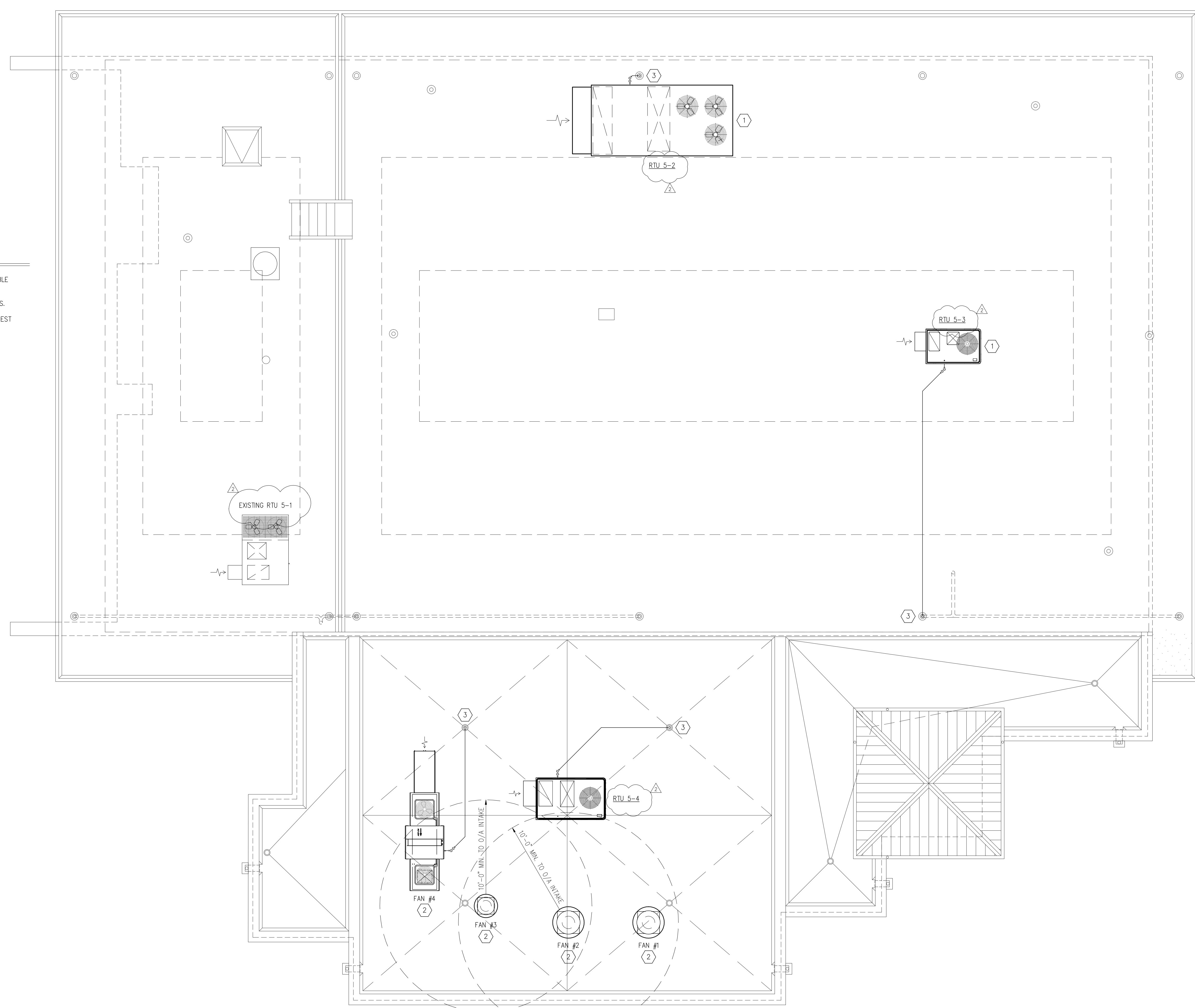
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 southardengineering@yahoo.com

MECHANICAL PLAN NOTES

- 1 INSTALL NEW RTU ON EXISTING ROOF CURB; FURNISH AND INSTALL SUITABLE CURB ADAPTER AS REQUIRED TO FACILITATE INSTALLATION OF NEW UNIT.
- 2 REFER TO M3.1 THRU M3.3 FOR CANOPY HOOD FAN SCHEDULES & DETAILS.
- 3 ROUTE CONDENSATE DRAIN LINE FULL SIZE OF UNIT CONNECTION TO NEAREST ROOF DRAIN.



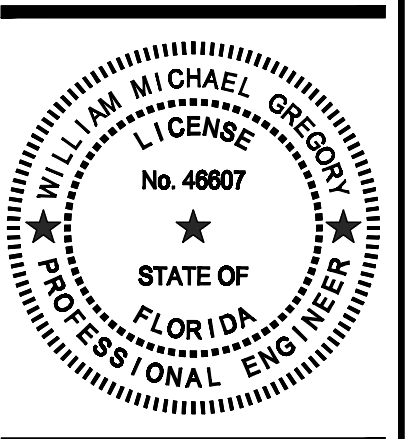
1 MECHANICAL ROOF PLAN
 M1.3 SCALE: 3/16" = 1'-0"

EXPANSION OF
DOCTORS INLET ELEMENTARY CAFETERIA
 2634 C.R. 220, MIDDLEBURG, FL 32068

| REVISIONS | | |
|-----------|----------|-------------|
| NO. | DATE | COMMENT |
| 1 | 08-24-19 | ADDENDUM #2 |
| 2 | 10-05-19 | ADDENDUM #3 |

JOB NO. 182000
 DATE 8-22-19
 DRAWN BY WMG
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M1.3



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 Cert. of Authorization # 28163

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| AIR DISTRIBUTION DEVICE SCHEDULE | | | | | |
|----------------------------------|--|-------|-----------|--------|-------------------|
| TYPE | DESCRIPTION | NECK | FACE SIZE | MANUF. | NOMINAL CFM RANGE |
| SUPPLY | A ALUMINUM, LOUVER-FACED, CONCENTRIC CONE CEILING SUPPLY DIFFUSER, MODEL TMS-AA | 6"Ø | 12x12 | TITUS | 0-125 |
| | | 6"Ø | 24x24 | | 0-125 |
| | | 8"Ø | 24x24 | | 126-225 |
| | | 10"Ø | 24x24 | | 226-450 |
| | | 12"Ø | 24x24 | | 451-650 |
| RETURN / EXHAUST | D ALUMINUM, DOUBLE-DEFLECTION SIDEWALL REGISTER, MODEL 300FS | 12x6 | 12x6 | TITUS | 0-250 |
| | | 18x6 | 18x6 | | 0-425 |
| | | 24x6 | 24x6 | | 0-600 |
| | | 8x8 | 8x8 | | 0-200 |
| | | 12x12 | 12x12 | | 0-450 |
| RETURN / EXHAUST | B/C ALUMINUM, EGGCRATE CEILING RETURN GRILLE, MODEL 50F | 16x16 | 16x16 | TITUS | 0-600 |
| | | 20x20 | 20x20 | | 0-1250 |
| | | 24x24 | 24x24 | | 0-1800 |
| | | 48x24 | 48x24 | | 0-3600 |

| HIGH-EFFICIENCY PACKAGED ROOFTOP UNIT SCHEDULE | | | |
|--|----------------------|-----------------|-----------------|
| DESIGNATION | RTU 5-2 | RTU 5-3 | RTU 5-4 |
| SYSTEM TYPE | AIR CONDITIONER | AIR CONDITIONER | AIR CONDITIONER |
| MANUFACTURER | TRANE Intellipak I | TRANE Precedent | TRANE Precedent |
| MODEL NO. | SEHL*25E | THC048E3 | THC120E3 |
| NOMINAL TONS | 25 | 4 | 10 |
| SUPPLY AIR FLOW (CFM) | 8500 | 1600 | 4000 |
| O/A AIRFLOW (CFM) | 1600 | 200 | 600 |
| EXT. STATIC PRESSURE (in. wg) | 1.0" | 0.6" | 0.6" |
| EVAPORATOR FAN HP | 7.5 | 1.0 | 1 |
| COMPRESSOR QTY/TYP | 2 / SCROLL | 1 / SCROLL | 1 / SCROLL |
| UNIT VOLTAGE/PHASE | 208/3 | 208/3 | 208/3 |
| MIN. CIRCUIT AMPACITY (MCA) | See Electrical Plans | 40 | 58 |
| MAX FUSE SIZE (AMPS) | See Electrical Plans | 40 | 60 |
| ENTERING AIR TEMPERATURE (DB/WB) | 80 / 67 | 80 / 67 | 80 / 67 |
| AMBIENT TEMPERATURE (DB) | 95 | 95 | 95 |
| GROSS TOTAL COOLING (BTU/H) | 323000 | 49900 | 117000 |
| GROSS SENSIBLE COOLING (BTU/H) | 234000 | 37000 | 89600 |
| AUX. ELECTRIC HEAT (KW) @ 240V | 50 | 12 | 18 |
| REFRIGERANT | R-410A | R-410A | R-410A |
| MINIMUM UNIT EER / SEER (AT A.R.I.) | 11.0 | 14.2 | 12.4 |
| UNIT WEIGHT, EXCLUDING CURB (LBS.) | 5167 | 452 | 960 |
| REMARKS | 1,2,3,4,5,6,7 | 1,2,3,4,5,6,7 | 1,2,3,4,5,6,7 |

NOTES:
 1. FURNISH 18" FACTORY ROOF CURB AND APPROPRIATE FLASHING.
 2. PROVIDE WITH SINGLE-POINT ELECTRICAL CONNECTION KIT.
 3. PROVIDE MOTORIZED 100% OUTSIDE AIR DAMPER/INTAKE HOOD ASSEMBLY.
 4. NON-FUSED DISCONNECT TO BE FURNISHED/INSTALLED BY ELECTRICAL.
 5. 120V GFI SERVICE RECEPTACLE TO BE FURNISHED/INSTALLED BY ELECTRICAL.
 6. FURNISH PROGRAMMABLE THERMOSTAT FOR EACH UNIT.
 7. EACH UNIT SHALL BE MECHANICALLY FASTENED TO CURB PER 2017 FBC & FMC REQUIREMENTS.

| ASHRAE 62.1-2007 VENTILATION AND AIR BALANCE CALCULATION | | | | | | | | | | | | |
|--|------------------|-----------|---------------------------------|-------------------------------|-------------------------|------------|--------------------------|------------|---|--|---|--------------------|
| DOCTORS INLET ELEMENTARY - CAFETERIA REMODEL & ADDITION | | | | | | | | | | | | |
| ROOM / ZONE | AREA OR ROOM NO. | AREA (SF) | DEFAULT OCCUPANCY (QTY/1000 SF) | CALCULATED OCCUPANCY (PEOPLE) | Rp VENT. RATE (CFM / P) | Vbzp (CFM) | Ra VENT. RATE (CFM / SF) | Vbza (CFM) | VENTILATION REQUIREMENT Vbz=Vbzp+Vbza (CFM) | Ez ZONE AIR DISTRIBUTION EFFECTIVENESS | Vbz CORRECTED VENTILATION REQUIREMENT (CFM) | EXHAUST RATE (CFM) |
| RTU-1 | | 1156 | | 4 | 5 | 20 | 0.06 | 69 | 69 | 1 | 69 | 70 |
| RTU-2 | | 3441 | | 130 | 7.5 | 975 | 0.18 | 619 | 1594 | 1 | 1594 | |
| RTU-3 | | 1483 | | 12 | 5 | 60 | 0.06 | 89 | 149 | 1 | 148 | 350 |
| RTU-4 | | 2658 | | 6 | 5 | 30 | 0.06 | 159 | 189 | 1 | 189 | |
| FAN #1 | | | | | | | | | | | | 2550 |
| FAN #2 | | | | | | | | | | | | 2550 |
| FAN #3 | | | | | | | | | | | | 1350 |
| FAN #4 | | | | | | | | | | | | 5175 |
| TOTAL | | 8738 | | 0 | | 0 | | 0 | 2022 | 1 | 7195 | 6870 |

| | |
|--|-------------|
| TOTAL VENTILATION AIR REQUIREMENT | 7195 |
| TOTAL EXH. RATE PLUS 5% | 7214 |
| FINAL VENT. REQUIREMENT (Greater of Above) | 7214 |
| TOTAL VENTILATION AIR PROVIDED | 7725 |

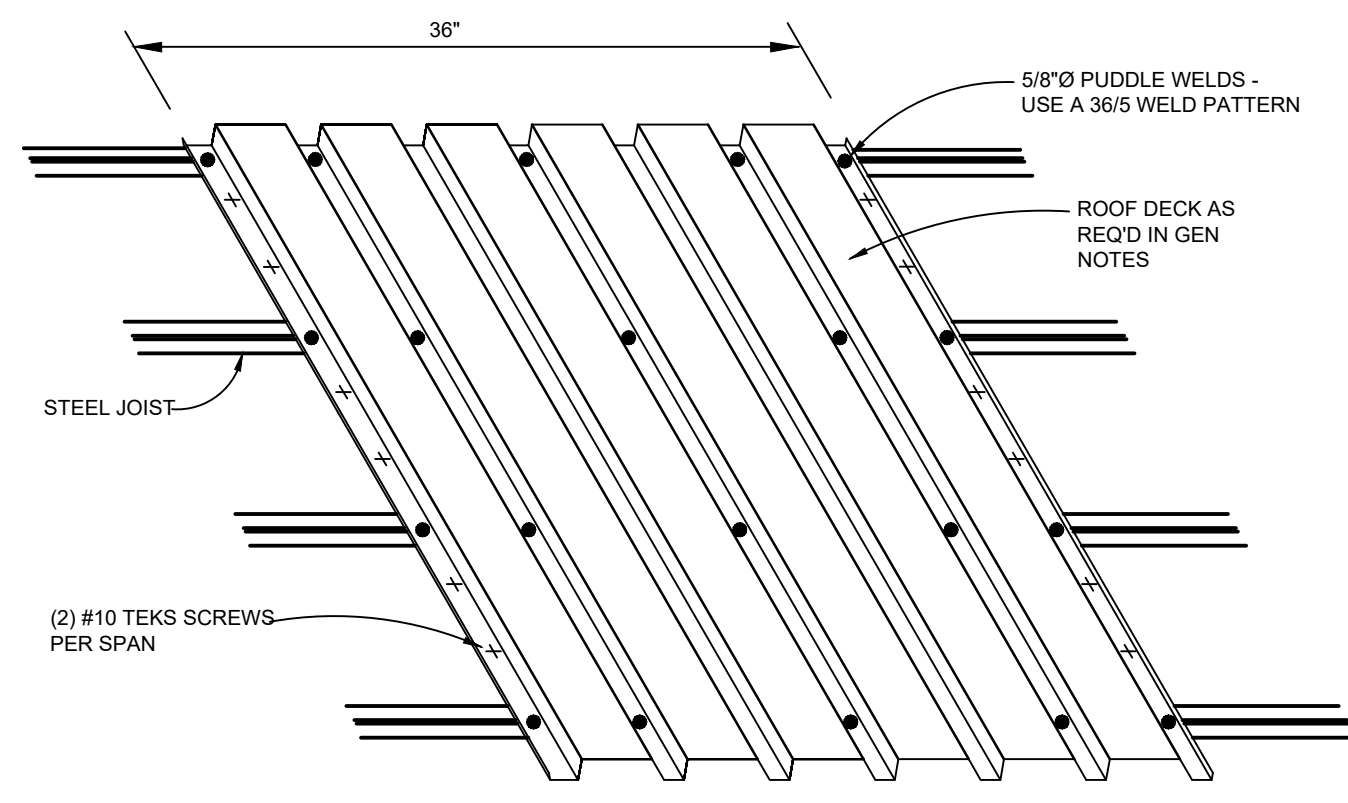
Date: 25-Jul-19

EXPANSION OF
DOCTORS INLET ELEMENTARY CAFETERIA
 2634 C.R. 220, MIDDLEBURG, FL 32068

| REVISIONS | | |
|-----------|----------|-------------|
| NO. | DATE | COMMENT |
| 1 | 08-24-19 | ADDENDUM #2 |
| 2 | 10-03-19 | ADDENDUM #3 |

JOB NO. 182000
 DATE 8-22-19
 DRAWN BY WMG
 CHECKED BY WMG

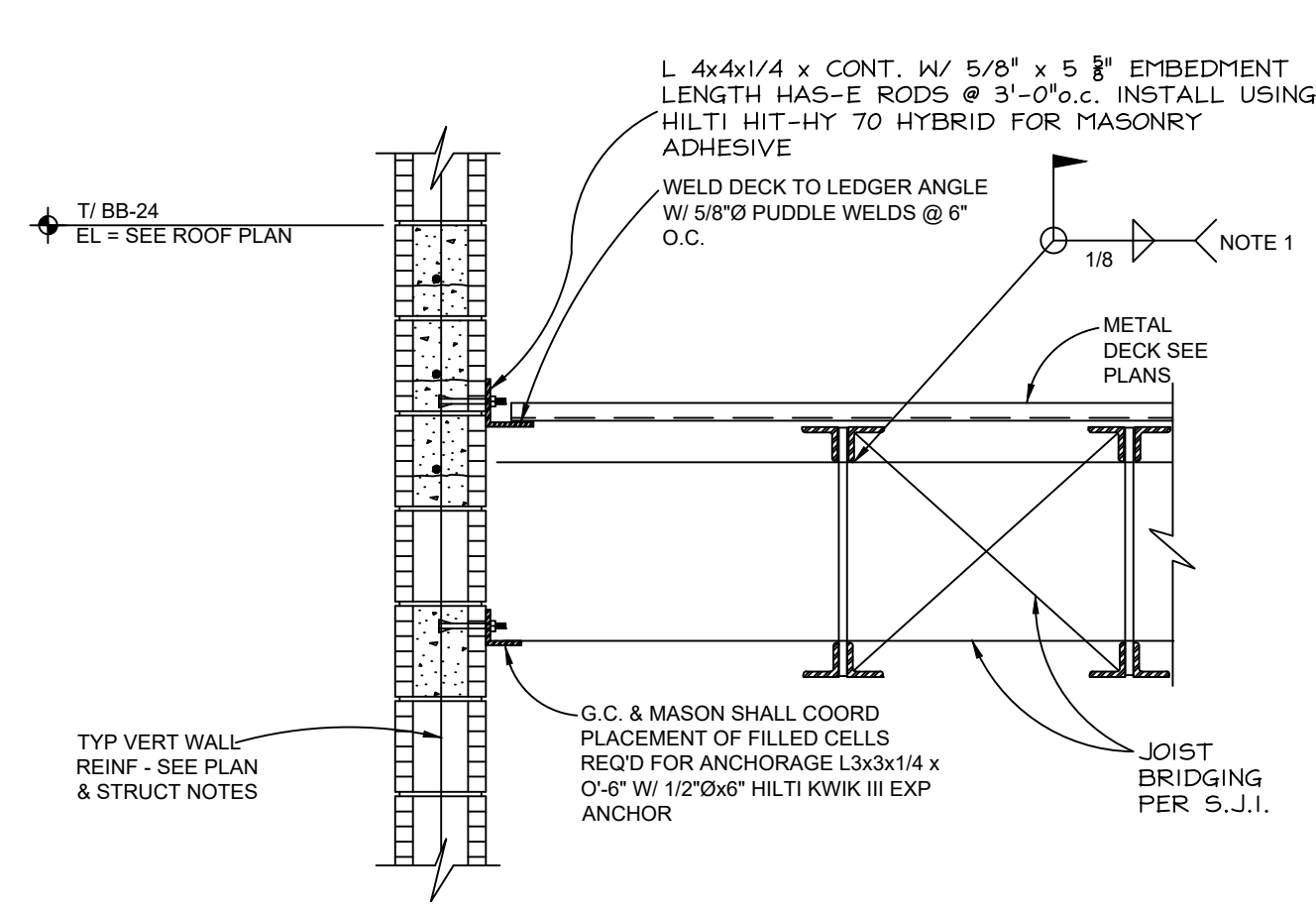
M2.2



NOTE:
 1. DECK MUST SPAN A MINIMUM OF 3 SPANS.
 2. ATTACHMENT PATTERN ABOVE IS MIN PATTERN FOR 1 1/2" x 22-GA TYPE B DECK.

TYPICAL METAL DECK CONNECTION 1

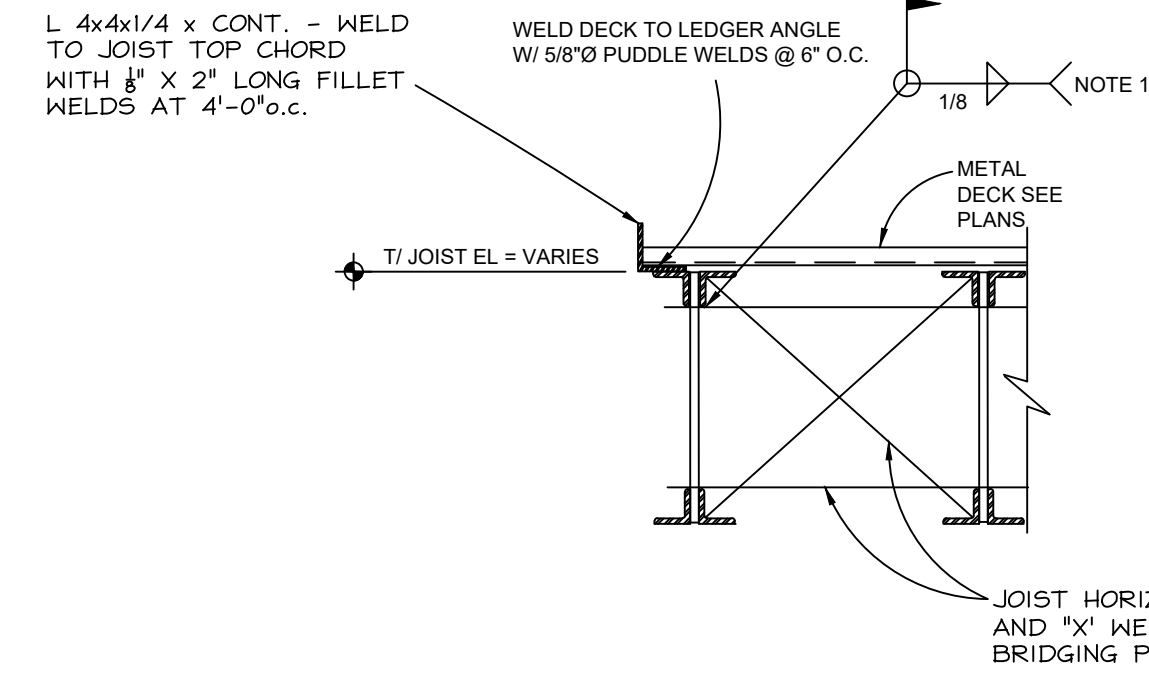
NOT TO SCALE



NOTE:
 1. WELD ALL CONTACT POINTS FOR BRIDGING ATTACHMENT

METAL DECK & BRIDGING TO WALL 2

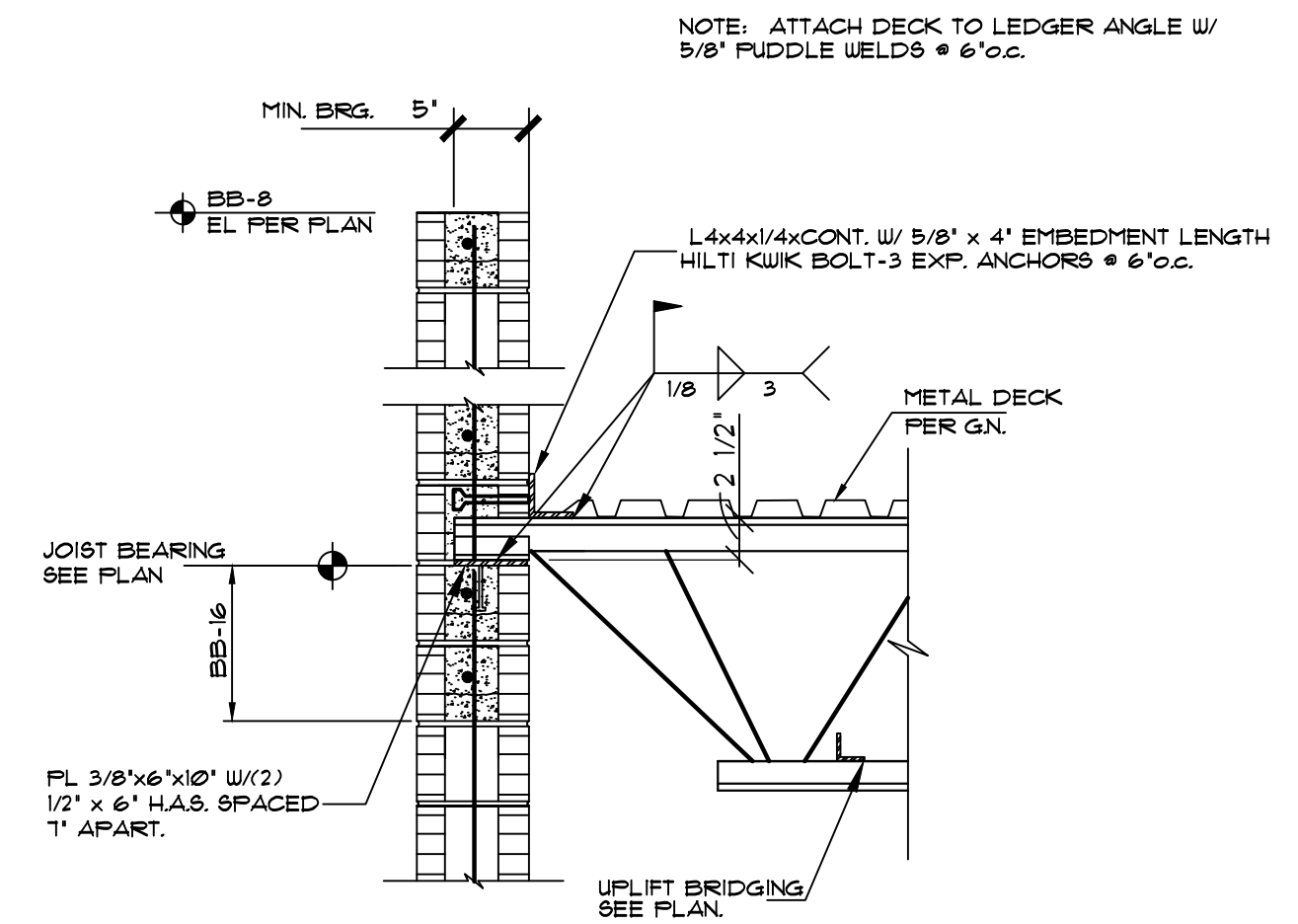
NOT TO SCALE



NOTE:
 1. WELD ALL CONTACT POINTS FOR BRIDGING ATTACHMENT

TYP. METAL DECK TO END JOIST 3

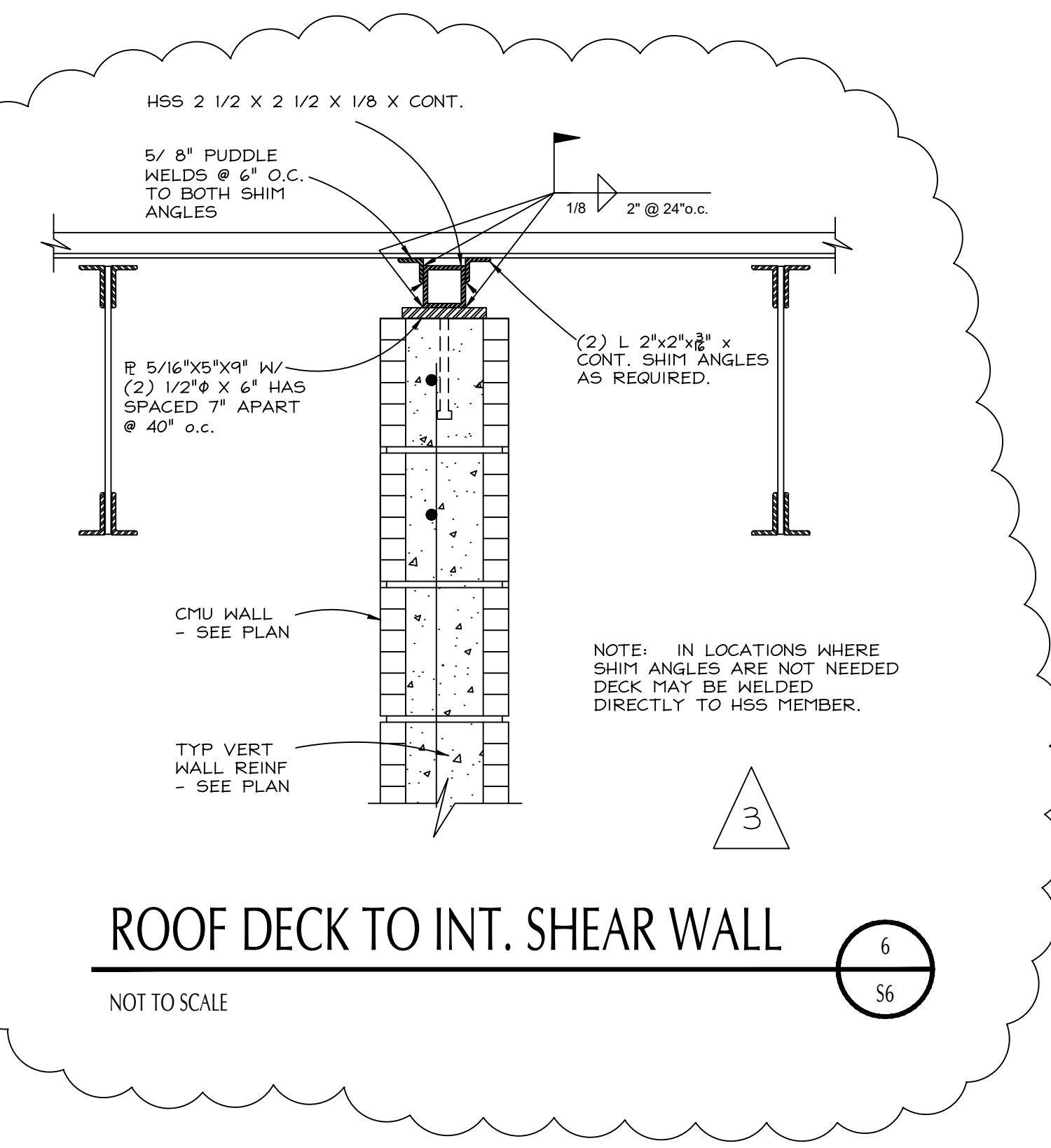
NOT TO SCALE



NOTE: GROUT FILL OR DRY PACK AT JOIST POCKET AFTER ERECTION. SEE ROOF PLAN FOR BOND BEAM ELEVATIONS.

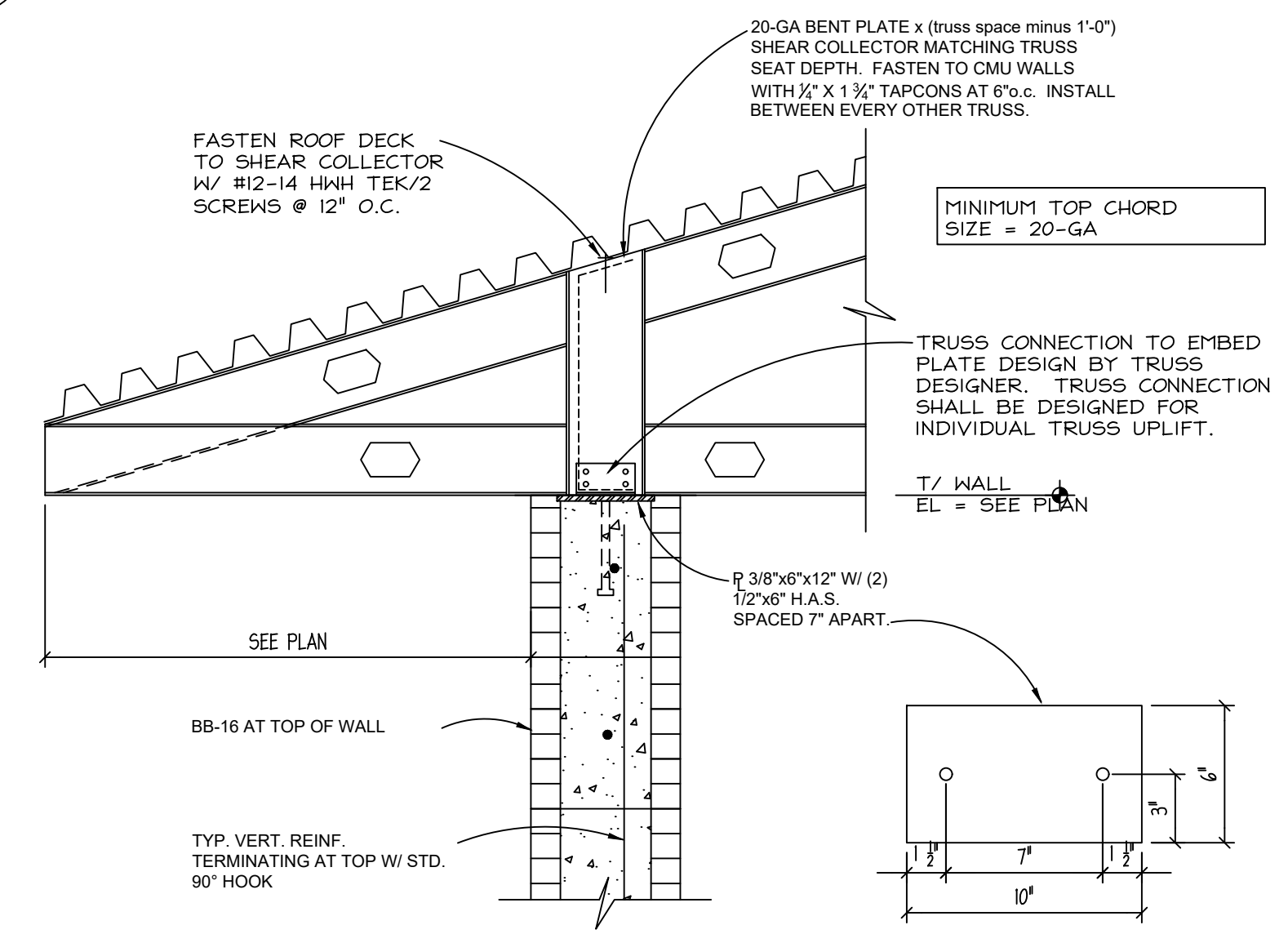
TYP. JOIST TO WALL CONN. 4

NOT TO SCALE



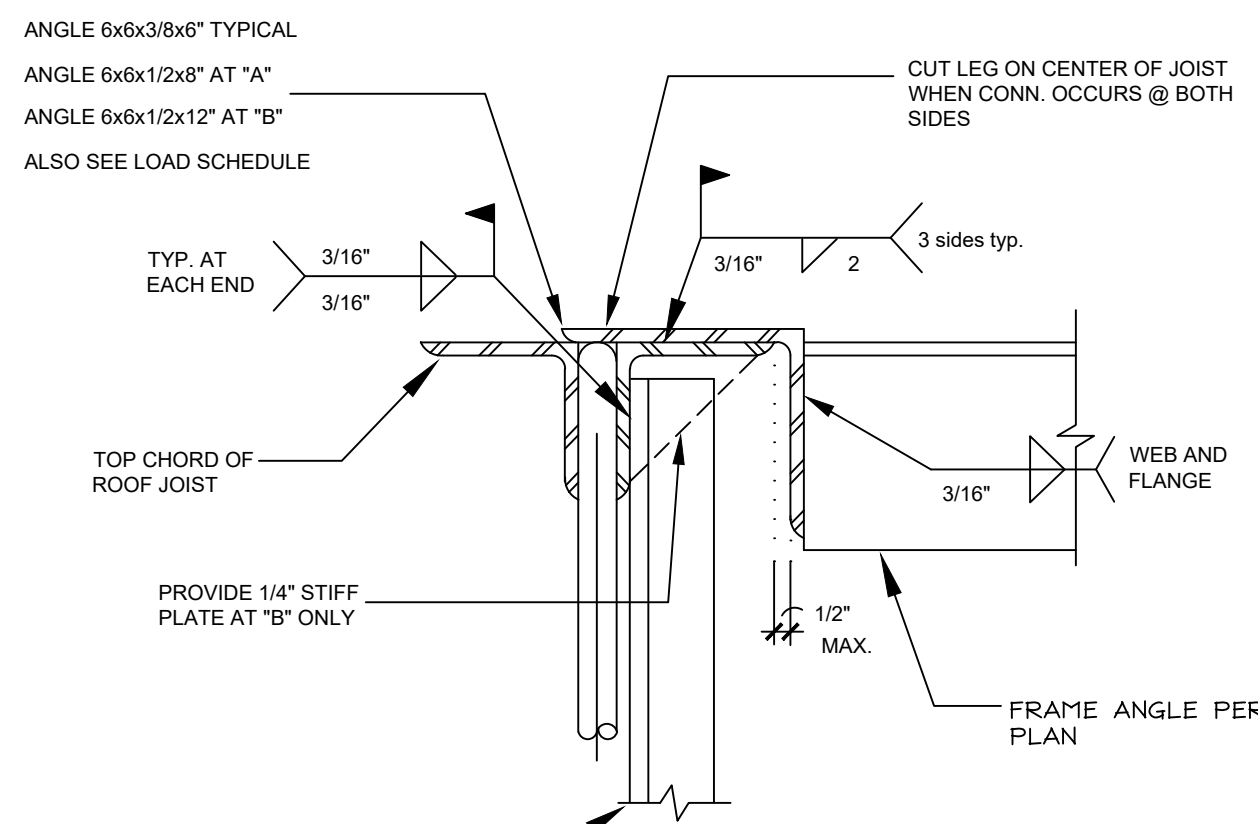
ROOF DECK TO INT. SHEAR WALL 5

NOT TO SCALE



TRUSS TO WALL CONNECTION 6

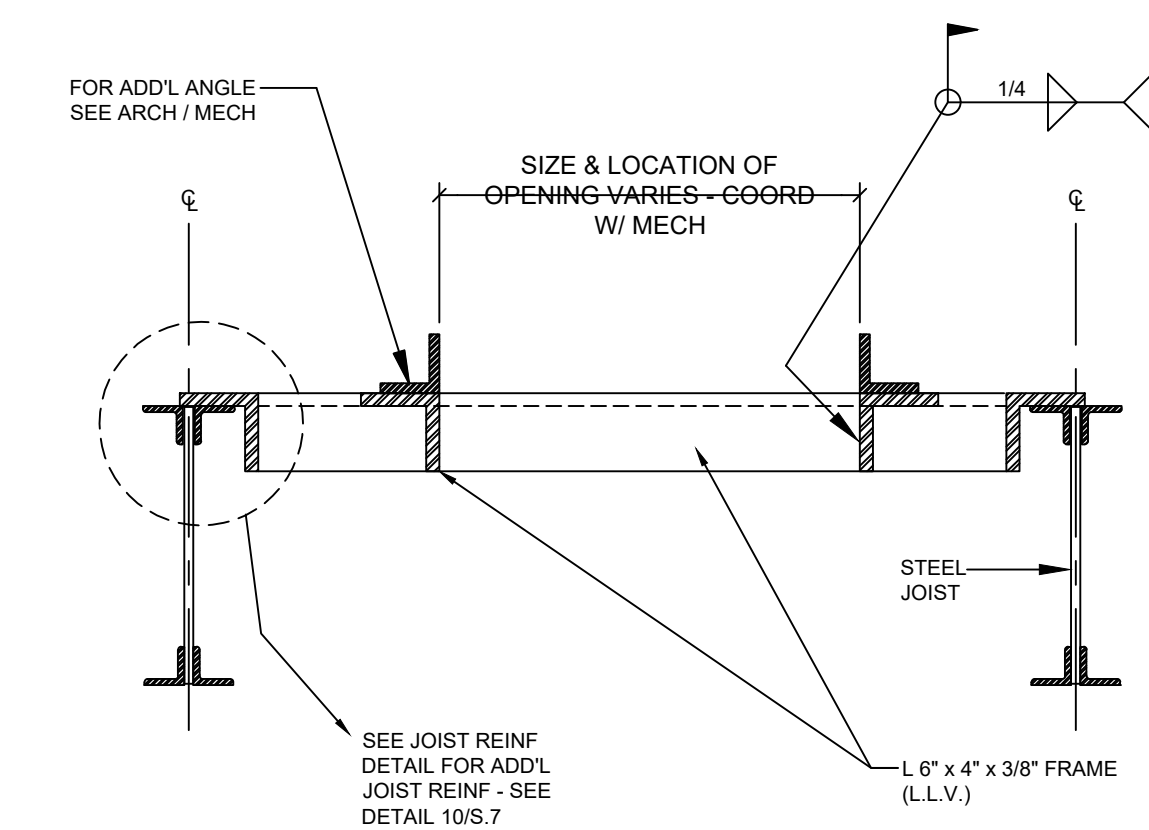
NOT TO SCALE



| CONN. LOAD SCHEDULE | |
|-------------------------|-------------|
| LOAD P | CONN. ANGLE |
| P < 1200lbs. | TYPICAL |
| 1200lbs. < P < 3000lbs. | A |
| 3000lbs. < P < 4500lbs. | B |

TYPICAL JOIST REINFORCEMENT 10

NOT TO SCALE



TYP. MECHANICAL OPENING 11

NOT TO SCALE

| REVISIONS | | |
|-----------|-----------|---------|
| NO | DATE | COMMENT |
| 3 | 10/4/2019 | |

JOB NO. 040-18
 DATE 8-22-19
 DRAWN BY JHS
 CHECKED BY JHS

S6.0

THIS DRAWING IS INTENDED TO BE PRINTED AT 24" x 36"