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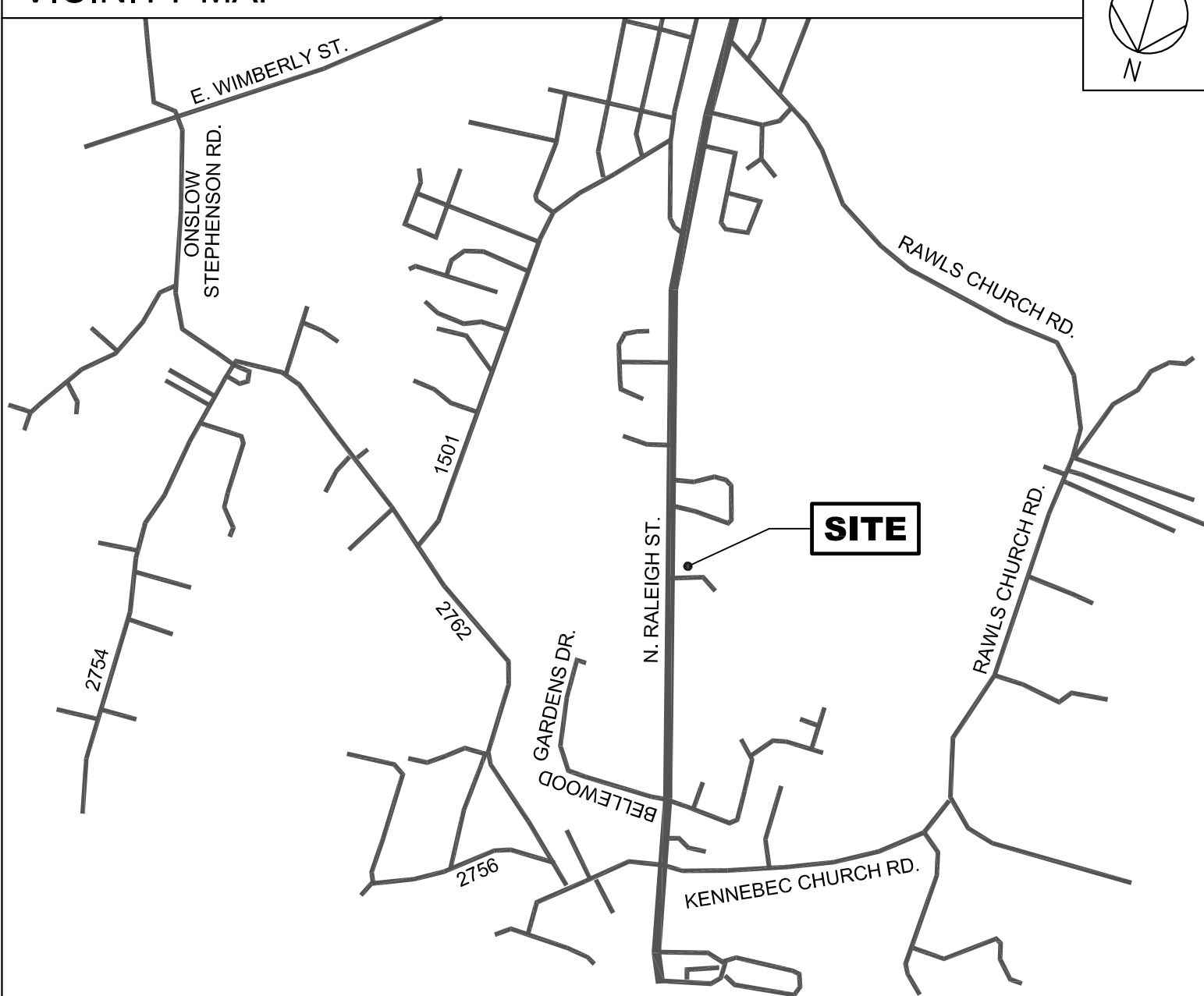
E3 ELECTRICAL NEW WORK PLAN

E4 ELECTRICAL SPECIFICATIONS

ABBREVIATIONS

Table with 4 columns: Abbreviation, Full Name, SIM. (Symbolic), SIMILAR. (Similar). Includes entries for A.C., A.F.F., CONC., CMU, ELEC., ELEV., HC., MAX., MECH., MIN., and NOM.

VICINITY MAP



2018 APPENDIX B BUILDING CODE SUMMARY

Project Information: Address (1501 N. Raleigh Street), Zip Code (27501), Owner/Authorized Agent (Linderman Properties, LLC), and Code Enforcement Jurisdiction (City of Angier).

PROJECT COORDINATOR: Tommy Wing. Designer Information Table with columns: FIRM, NAME, LICENSE #, TELEPHONE #. Lists EA Studio Architecture + Interiors, PLLC and GreenTech Consulting, Inc.

2018 NC BUILDING CODE:  New Building,  Addition,  Renovation (New Exterior Canopies),  1st Time Interior Completion,  Shell / Core,  Phased Construction.

2018 NC EXISTING BUILDING CODE: Existing:  Prescriptive,  Repair,  Chapter 14. Alteration:  Level I,  Level II,  Level III,  Historic Property,  Change of Use.

Constructed: (date) 1977. Current Occupancy: Mercantile and Business. Renovated: -. Proposed Occupancy: No Change.

OCCUPANCY CATEGORY (Table 1604.5): Current:  I,  II,  III,  IV. Proposed: No Change.

BASIC BUILDING DATA:

Construction Type:  I-A,  I-B,  II-A,  II-B,  III-A,  III-B,  IV,  V-A,  V-B.

Sprinklers:  No,  Partial,  Yes. NFPA 13, NFPA 13R, NFPA 13D.

Standpipes:  No,  Yes. Class:  I,  II,  III,  Wet,  Dry.

Fire District:  No,  Yes. Flood Hazard Area:  No,  Yes.

Special Inspections Required:  No,  Yes.

Gross Building Area Table with columns: FLOOR, EXISTING (SQ. FT.), NEW (SQ. FT.), SUB-TOTALS (SQ. FT.). Shows 12,576 sq ft existing and 0 sq ft new.

ALLOWABLE AREA:

Primary Occupancy Classification:  Mercantile,  Residential,  Storage,  Utility and Miscellaneous. Accessory Occupancy Classification: N/A. Incidental Uses (Table 509): N/A. Special Uses (Chapter 4 - List Code Sections): N/A.

Mixed Occupancy:  No,  Yes\*. Separation: 0 Hr. Exception: 508.3.

\* The building contains both Mercantile and Business Occupancies.

Non-Separated Use (508.3) The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building.

Separated Use (508.4) - See below for area calculations. For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

Table showing Area Calculations for Separated Use with columns: SPACE DESIGNATION, DESCRIPTION AND USE, (A) BLDG AREA PER STORY (SF) (ACTUAL), (B) TABLE 506.2.4 AREA (SF), (C) AREA FOR FRONTAGE INCREASE (SF) 1.5, (D) ALLOWABLE AREA PER STORY OR UNLIMITED 2,3.

\* Mercantile and Business Occupancies have the same Table 506.2 Allowable Area (9,000 SF)

- 1Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width (F) = 540 ft
b. Total Building Perimeter (P) = 540 ft
c. Ratio (F/P) = 1
d. W = Minimum width of public way = >30 ft (W)
e. Percent of frontage increase % = 100(F/P - 0.25) x W/30 = 75 %

2Unlimited area applicable under conditions of Section 507

3Maximum Building Area = total number of stories in the building x D (506.4)

4The maximum area of parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with 412.3.1.

5Frontage increase is based on the un-sprinklered area in Table 506.2.

ALLOWABLE HEIGHT:

Table with columns: ALLOWABLE, SHOWN ON PLANS, CODE REFERENCE 1. Shows 40' allowable height with 27' shown on plans.

1 Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

Table with columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE (FEET), RATED, RATING PROVIDED (W/ REDUCTION), DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY, DESIGN # FOR RATED PENETRATION, DESIGN # FOR RATED JOINTS. Rows include Structural frame, Bearing walls, Interior, Nonbearing walls, Floor construction, etc.

- Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

Table with columns: Fire Separation Distance (Feet) from Property Lines, Degree of Openings Protection (Table 705.8), Allowable Area (%), Actual Shown on Plans (%). Shows 100% for all categories.

LIFE SAFETY SYSTEM REQUIREMENTS: NO CHANGES - EXTERIOR ALTERATIONS ONLY

Emergency Lighting:  No,  Yes. Exit Signs:  No,  Yes. Fire Alarm:  No,  Yes. Smoke Detection Systems:  No,  Yes,  Partial. Panic Hardware:  No,  Yes.

LIFE SAFETY PLAN REQUIREMENTS: NO CHANGES - EXTERIOR ALTERATIONS ONLY

- Life Safety Plan Sheet #: N/A
  - Fire and/or smoke rated wall locations (Chapter 7)
  - Assumed and real property line locations (if not on site plan)
  - Exterior wall opening area with respect to distance to assumed property lines (705.8)
  - Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
  - Occupant loads for each area
  - Exit access travel distances (1017)
  - Common path of travel distances (1006.2.1 & 1006.3.2(1))
  - Dead end lengths (1020.4)
  - Clear exit widths for each exit door
  - Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
  - Actual occupant load for each exit door
  - A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
  - Location of doors with panic hardware (1010.1.10)
  - Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
  - Location of doors with electromagnetic egress locks (1008.1.9.9)
  - Location of doors equipped with hold-open devices
  - Location of emergency escape windows (1030)
  - The square footage of each fire area (202)
  - The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
  - Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SEC. 1107):

Table with columns: TOTAL ACCESSIBLE UNITS REQUIRED, ACCESSIBLE UNITS PROVIDED, TYPE A UNITS REQUIRED, TYPE A UNITS PROVIDED, TYPE B UNITS REQUIRED, TYPE B UNITS PROVIDED, TOTAL ACCESSIBLE TYPE A OR TYPE B UNITS PROVIDED. Shows 2 accessible units required and 2 provided.

ACCESSIBLE PARKING (SEC. 1106):

Table with columns: PARKING AREA, TOTAL # OF SPACES REQUIRED, # OF SPACES PROVIDED, # OF ACCESSIBLE SPACES PROVIDED, REGULAR WITH 5' ACCESS AISLE, VAN SPACES WITH 8' ACCESS AISLE, TOTAL # ACCESSIBLE PROVIDED. Shows 2 accessible spaces provided.

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1):

Table with columns: USES: Retail and Business, WATERCLOSETS, URINALS, LAVATORIES, SHOWERS/TUBS, DRINKING FOUNTAINS. Existing: N/A - EXTERIOR ALTERATIONS ONLY.

SPECIAL APPROVALS: N/A - None Required

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

N/A - None Required

ENERGY SUMMARY: N/A - EXTERIOR ALTERATIONS ONLY

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet.

Existing building envelope complies with code:  No,  Yes (Remainder of this section not applicable)

Exempt Building:  No,  Yes (Provide code or statutory reference):

Climate Zone:  3,  4A,  5A

Method of Compliance: Energy Code  Performance,  Prescriptive. ASHRAE 90.1  Performance,  Prescriptive. (If "Other" specify source here)

STRUCTURAL DESIGN SUMMARY: SEE STRUCTURAL SHEETS

MECHANICAL DESIGN SUMMARY: N/A - EXTERIOR ALTERATION ONLY

ELECTRICAL DESIGN SUMMARY: SEE ELECTRICAL SHEETS



EA Studio ARCHITECTURE + INTERIORS 4801 Lake Boone Trail, Suite 2H Raleigh, NC 27607 office@ea-studio.net 919.866.2317

Professional seals for Thomas H. Wing (12759) and EA Studio (52750) from the Board of Architectural Regulation, State of North Carolina.

1501 N. RALEIGH STREET ANGIER, NC 27501

REVISIONS

DATE 04/02/2021

SHEET TITLE BUILDING CODE SUMMARY

SHEET CS-1

**SCOPE OF WORK**

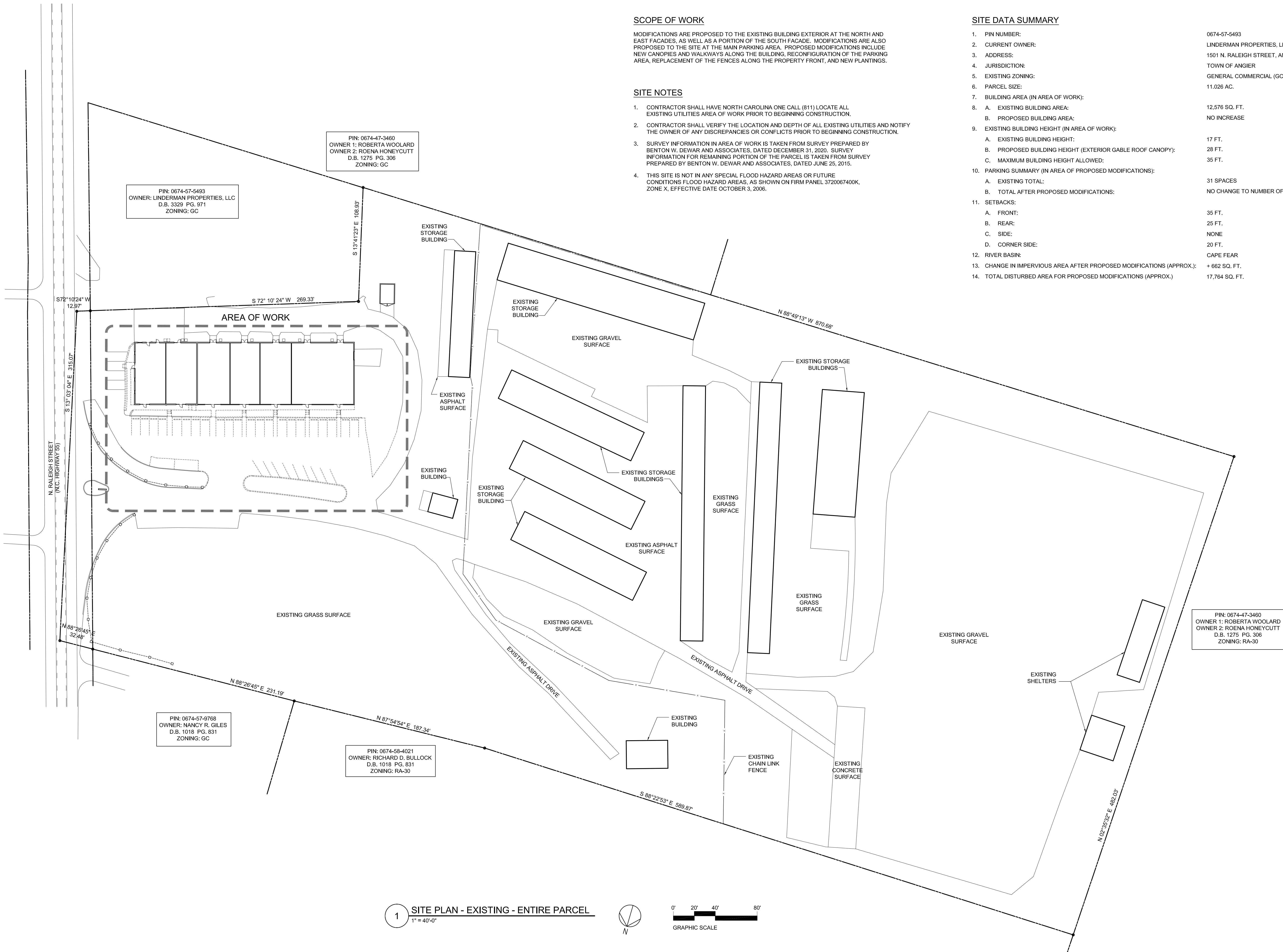
MODIFICATIONS ARE PROPOSED TO THE EXISTING BUILDING EXTERIOR AT THE NORTH AND EAST FACADES, AS WELL AS A PORTION OF THE SOUTH FACADE. MODIFICATIONS ARE ALSO PROPOSED TO THE SITE AT THE MAIN PARKING AREA. PROPOSED MODIFICATIONS INCLUDE NEW CANOPIES AND WALKWAYS ALONG THE BUILDING, RECONFIGURATION OF THE PARKING AREA, REPLACEMENT OF THE FENCES ALONG THE PROPERTY FRONT, AND NEW PLANTINGS.

**SITE NOTES**

- CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES AREA OF WORK PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE OWNER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
- SURVEY INFORMATION IN AREA OF WORK IS TAKEN FROM SURVEY PREPARED BY BENTON W. DEWAR AND ASSOCIATES, DATED DECEMBER 31, 2020. SURVEY INFORMATION FOR REMAINING PORTION OF THE PARCEL IS TAKEN FROM SURVEY PREPARED BY BENTON W. DEWAR AND ASSOCIATES, DATED JUNE 25, 2015.
- THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FIRM PANEL 3720067400K, ZONE X, EFFECTIVE DATE OCTOBER 3, 2006.

**SITE DATA SUMMARY**

1. PIN NUMBER:	0674-57-5493
2. CURRENT OWNER:	LINDERMAN PROPERTIES, LLC
3. ADDRESS:	1501 N. RALEIGH STREET, ANGIER, NC 27501
4. JURISDICTION:	TOWN OF ANGIER
5. EXISTING ZONING:	GENERAL COMMERCIAL (GC)
6. PARCEL SIZE:	11,026 AC.
7. BUILDING AREA (IN AREA OF WORK):	
8. A. EXISTING BUILDING AREA:	12,576 SQ. FT.
B. PROPOSED BUILDING AREA:	NO INCREASE
9. EXISTING BUILDING HEIGHT (IN AREA OF WORK):	
A. EXISTING BUILDING HEIGHT:	17 FT.
B. PROPOSED BUILDING HEIGHT (EXTERIOR GABLE ROOF CANOPY):	28 FT.
C. MAXIMUM BUILDING HEIGHT ALLOWED:	35 FT.
10. PARKING SUMMARY (IN AREA OF PROPOSED MODIFICATIONS):	
A. EXISTING TOTAL:	31 SPACES
B. TOTAL AFTER PROPOSED MODIFICATIONS:	NO CHANGE TO NUMBER OF SPACES
11. SETBACKS:	
A. FRONT:	35 FT.
B. REAR:	25 FT.
C. SIDE:	NONE
D. CORNER SIDE:	20 FT.
12. RIVER BASIN:	CAPE FEAR
13. CHANGE IN IMPERVIOUS AREA AFTER PROPOSED MODIFICATIONS (APPROX.):	+ 662 SQ. FT.
14. TOTAL DISTURBED AREA FOR PROPOSED MODIFICATIONS (APPROX.):	17,764 SQ. FT.



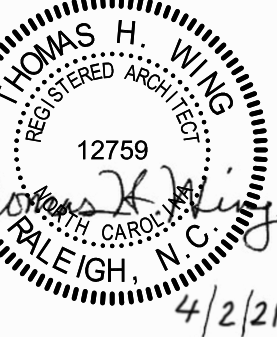
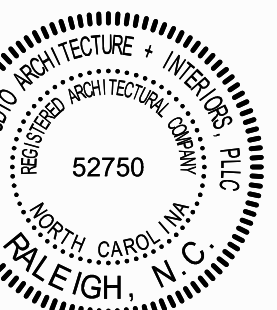
PIN: 0674-57-5493  
OWNER: LINDERMAN PROPERTIES, LLC  
D.B. 3329 PG. 971  
ZONING: GC

PIN: 0674-47-3460  
OWNER 1: ROBERTA WOOLARD  
OWNER 2: ROENA HONEYCUTT  
D.B. 1275 PG. 306  
ZONING: GC

PIN: 0674-57-9768  
OWNER: NANCY R. GILES  
D.B. 1018 PG. 831  
ZONING: GC

PIN: 0674-58-4021  
OWNER: RICHARD D. BULLOCK  
D.B. 1018 PG. 831  
ZONING: RA-30

PIN: 0674-47-3460  
OWNER 1: ROBERTA WOOLARD  
OWNER 2: ROENA HONEYCUTT  
D.B. 1275 PG. 306  
ZONING: RA-30



1501 N. RALEIGH STREET  
ANGIER, NC 27501

**REVISIONS**

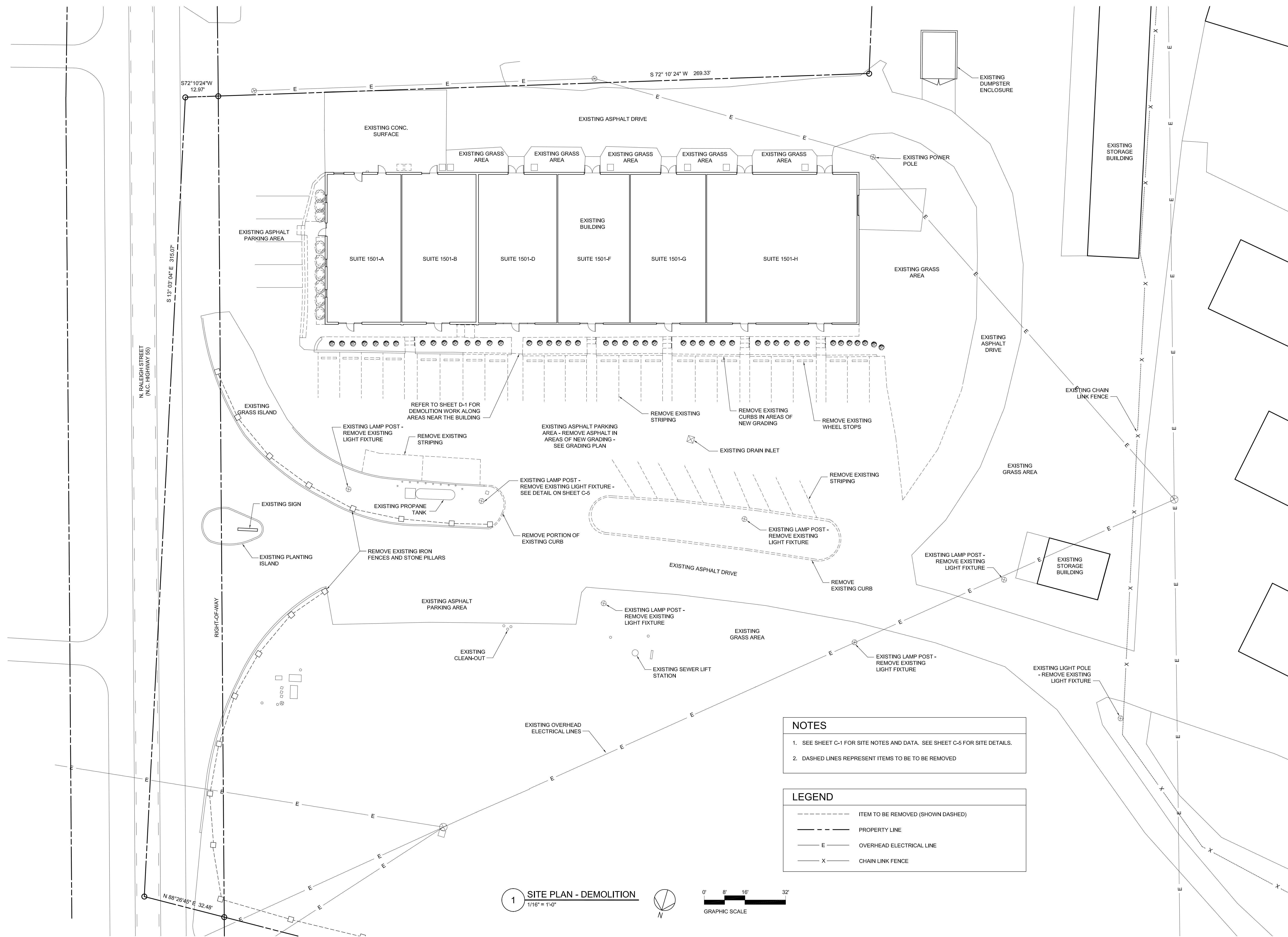
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04/02/2021

**SHEET TITLE**

SITE PLAN -  
EXISTING -  
ENTIRE PARCEL

**SHEET**

C-1



S72°10'24"W 12.97'

S 13° 03' 04" E 315.07'

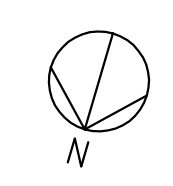
N. RALEIGH STREET (N.C. HIGHWAY 55)

RIGHT-OF-WAY

N 88°26'45" E 32.48'

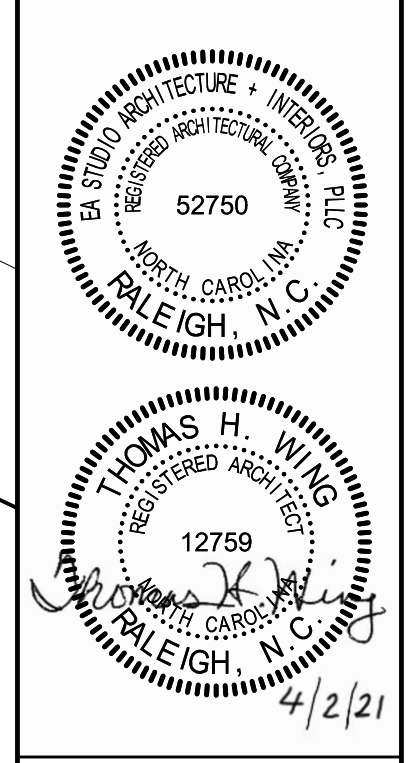
S 72° 10' 24" W 269.33'

**1 SITE PLAN - DEMOLITION**  
1/16" = 1'-0"



- NOTES**
- SEE SHEET C-1 FOR SITE NOTES AND DATA. SEE SHEET C-5 FOR SITE DETAILS.
  - DASHED LINES REPRESENT ITEMS TO BE REMOVED

- LEGEND**
- ITEM TO BE REMOVED (SHOWN DASHED)
  - PROPERTY LINE
  - E — OVERHEAD ELECTRICAL LINE
  - X — CHAIN LINK FENCE



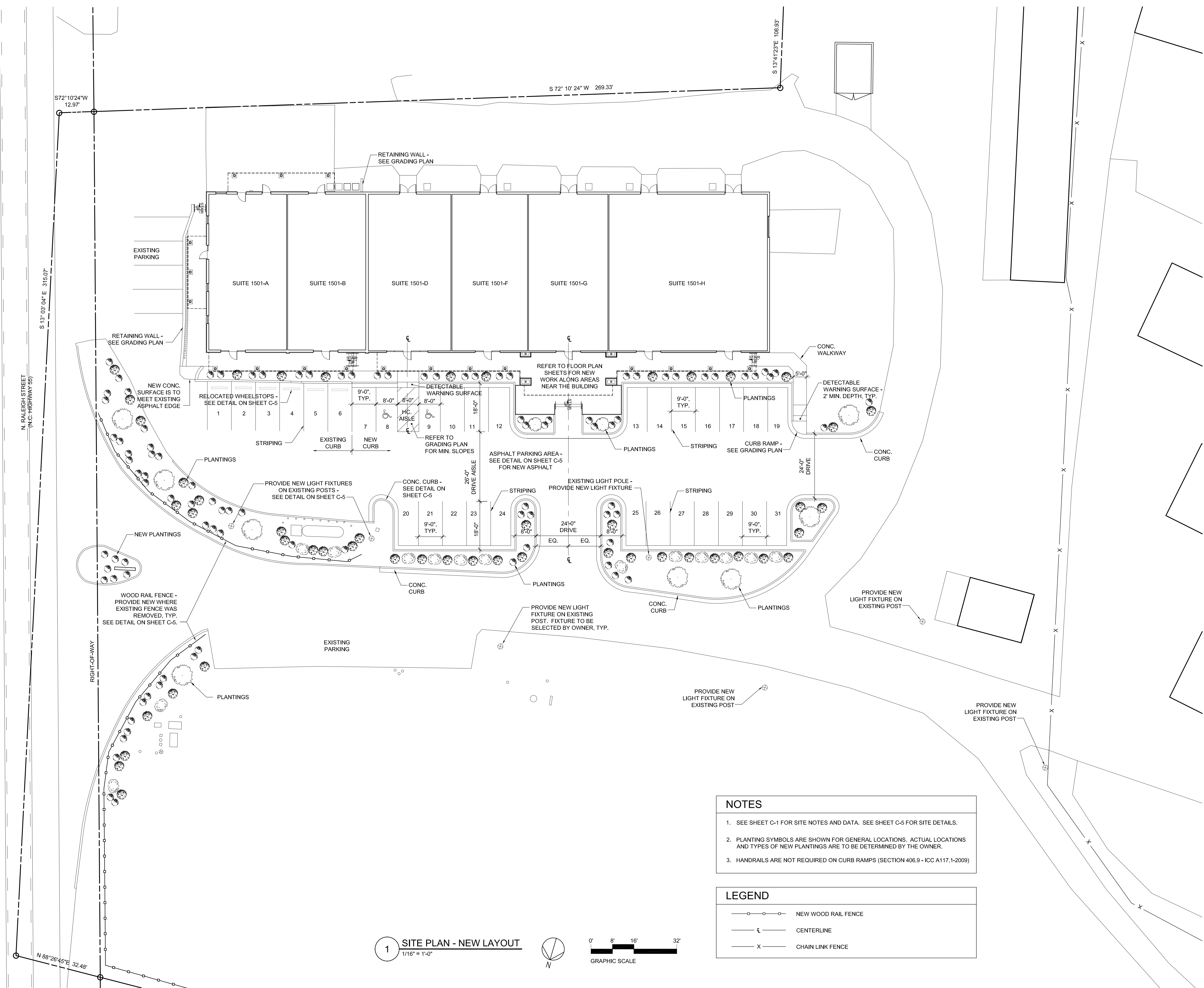
**1501 N. RALEIGH STREET**  
**ANGIER, NC 27501**

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DATE  
04/02/2021

SHEET TITLE  
**SITE PLAN - DEMOLITION**

SHEET  
**C-2**

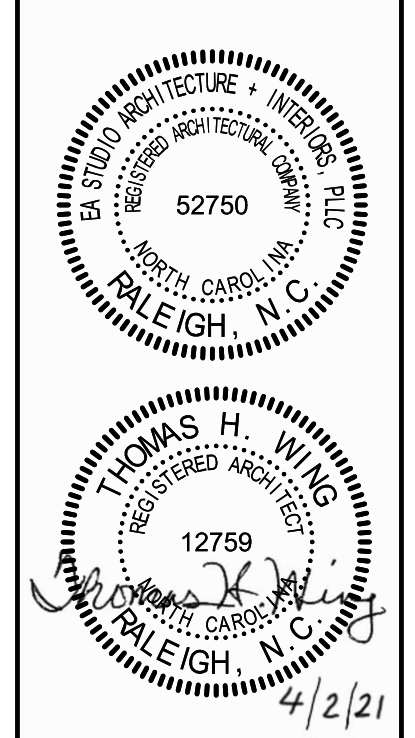


N. RALEIGH STREET (NC-HIGHWAY 59)  
 S 13° 03' 04" E 315.07'  
 S 72° 10' 24" W 12.97'  
 S 72° 10' 24" W 269.33'  
 S 13° 41' 23" E 108.93'  
 N 88° 26' 45" E 32.48'

1 SITE PLAN - NEW LAYOUT  
 1/16" = 1'-0"  
 0' 8' 16' 32'  
 GRAPHIC SCALE

- NOTES**
- SEE SHEET C-1 FOR SITE NOTES AND DATA. SEE SHEET C-5 FOR SITE DETAILS.
  - PLANTING SYMBOLS ARE SHOWN FOR GENERAL LOCATIONS. ACTUAL LOCATIONS AND TYPES OF NEW PLANTINGS ARE TO BE DETERMINED BY THE OWNER.
  - HANDRAILS ARE NOT REQUIRED ON CURB RAMPS (SECTION 406.9 - ICC A117.1-2009)

- LEGEND**
- NEW WOOD RAIL FENCE
  - ℄— CENTERLINE
  - X— CHAIN LINK FENCE



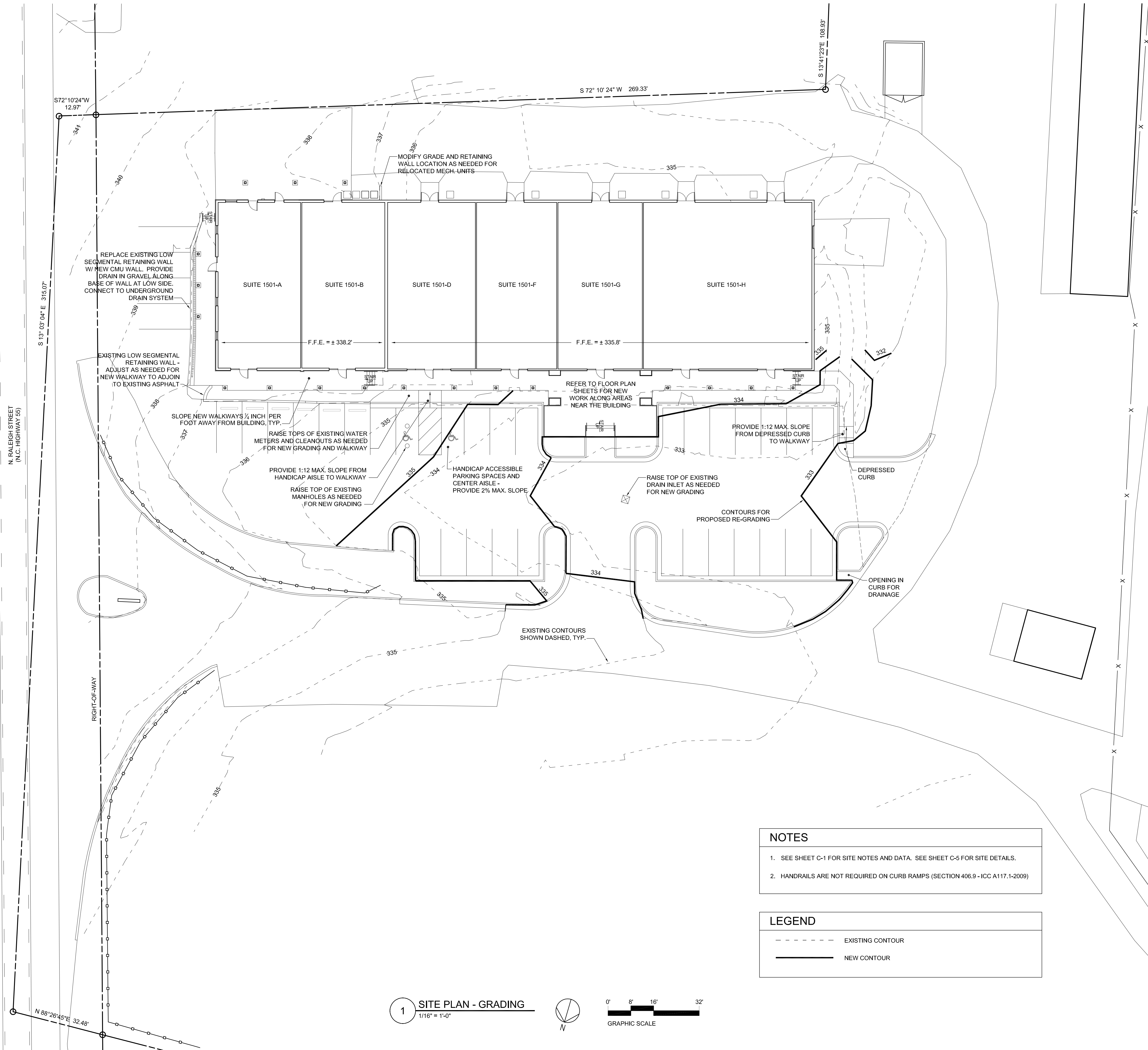
1501 N. RALEIGH STREET  
 ANGIER, NC 27501

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DATE  
 04/02/2021

SHEET TITLE  
 SITE PLAN - NEW LAYOUT

SHEET  
**C-3**



N RALEIGH STREET (N.C. HIGHWAY 55)  
 RIGHT-OF-WAY  
 S 13° 03' 04" E 315.07'  
 S 72° 10' 24" W 12.97'  
 S 72° 10' 24" W 269.33'  
 S 13° 4' 123"E 108.93'  
 N 88° 26' 45"E 32.48'

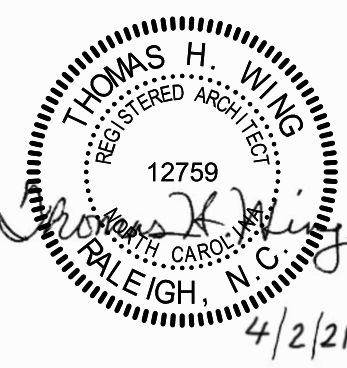
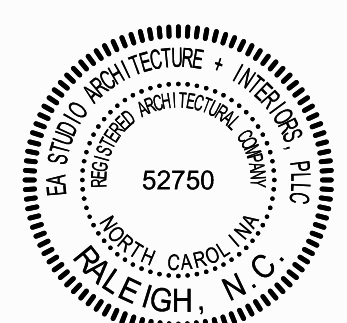
1 SITE PLAN - GRADING  
 1/16" = 1'-0"

GRAPHIC SCALE

- NOTES**
- SEE SHEET C-1 FOR SITE NOTES AND DATA. SEE SHEET C-5 FOR SITE DETAILS.
  - HANDRAILS ARE NOT REQUIRED ON CURB RAMPS (SECTION 406.9 - ICC A117.1-2009)

**LEGEND**

	EXISTING CONTOUR
	NEW CONTOUR



1501 N. RALEIGH STREET  
 ANGIER, NC 27501

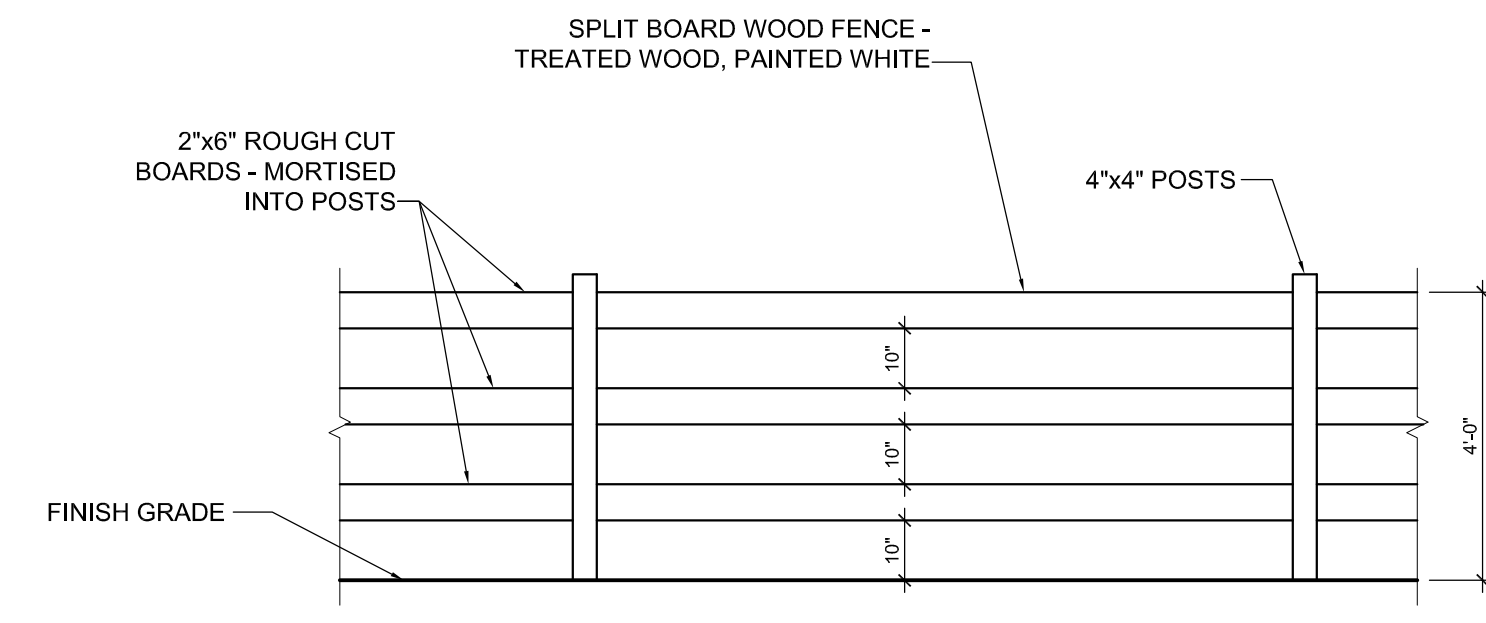
REVISIONS

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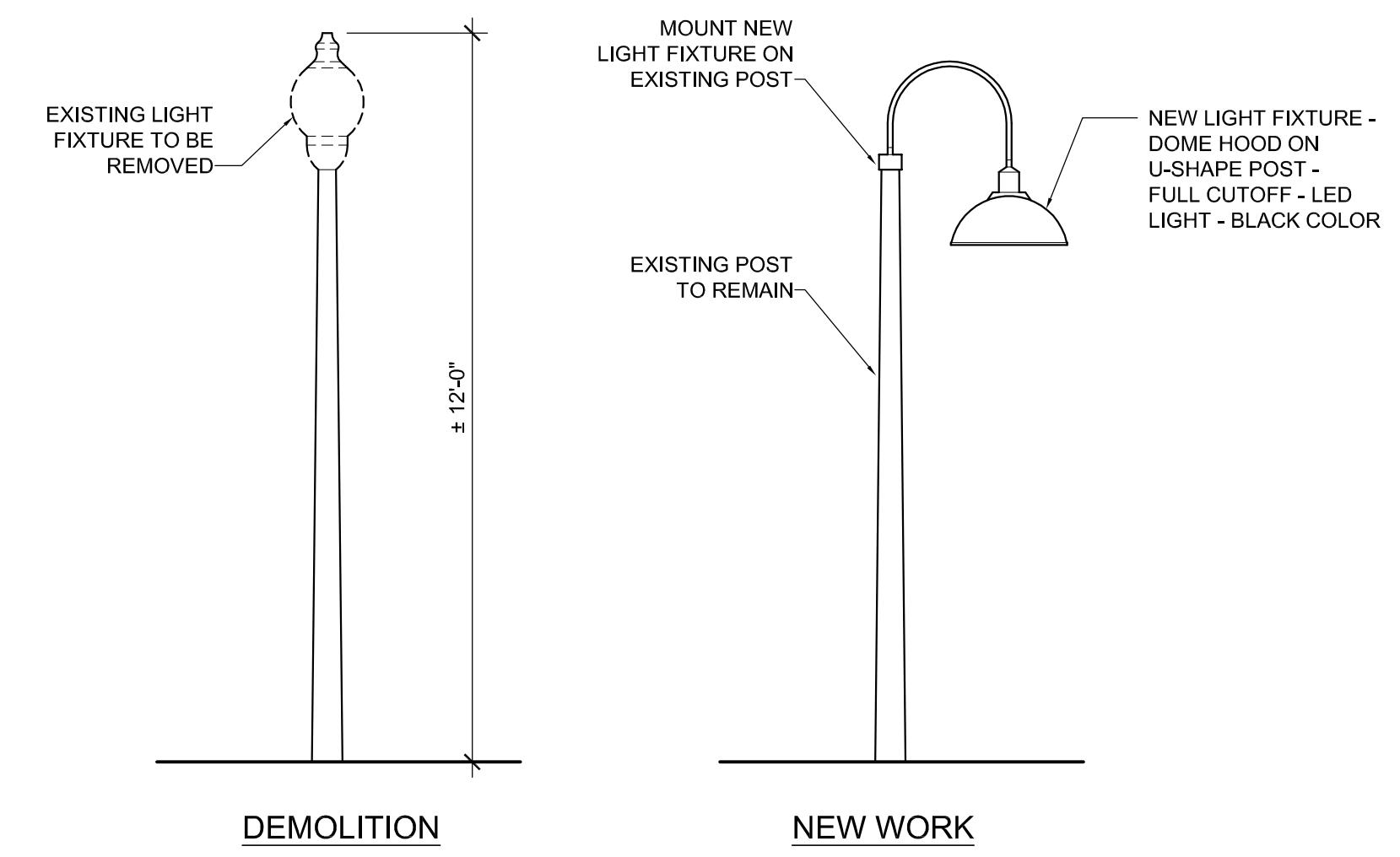
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SHEET TITLE  
 SITE PLAN - GRADING

SHEET  
**C-4**



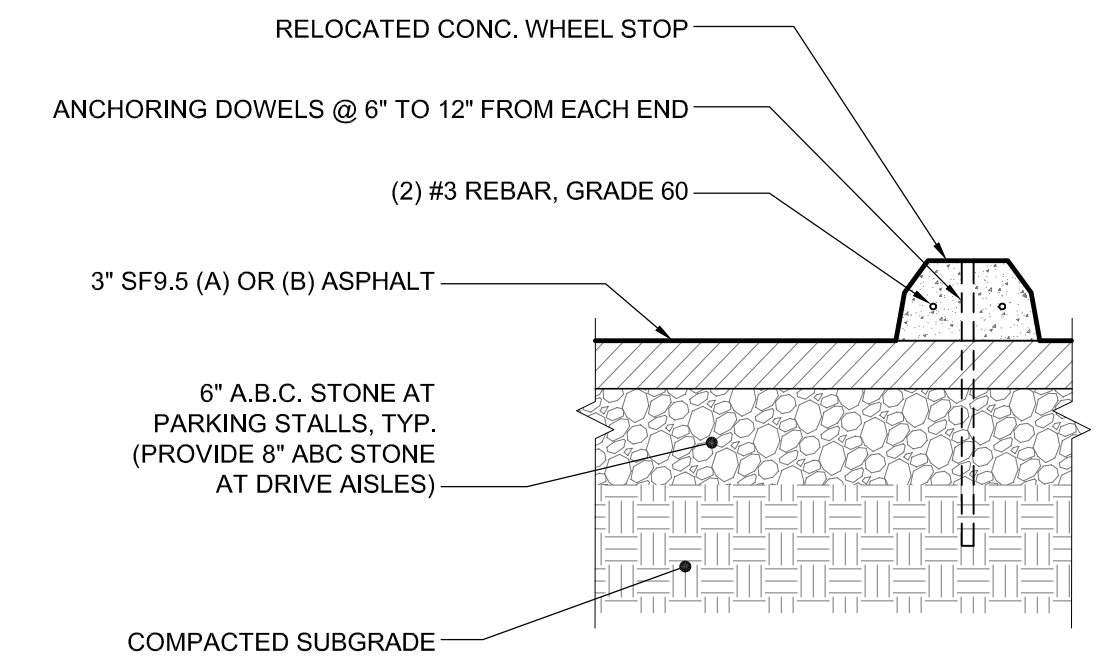
1 FENCE - ELEVATION DETAIL  
 3/8" = 1'-0"



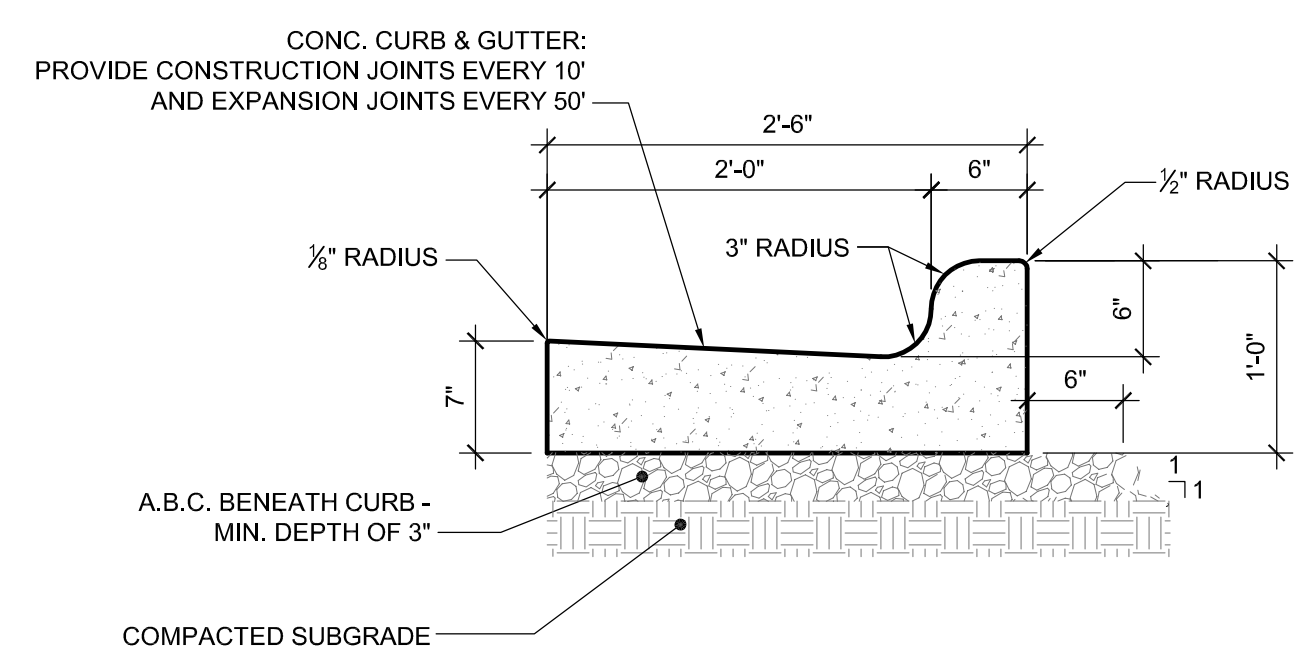
2 LAMP POST  
 3/8" = 1'-0"

NOTES:

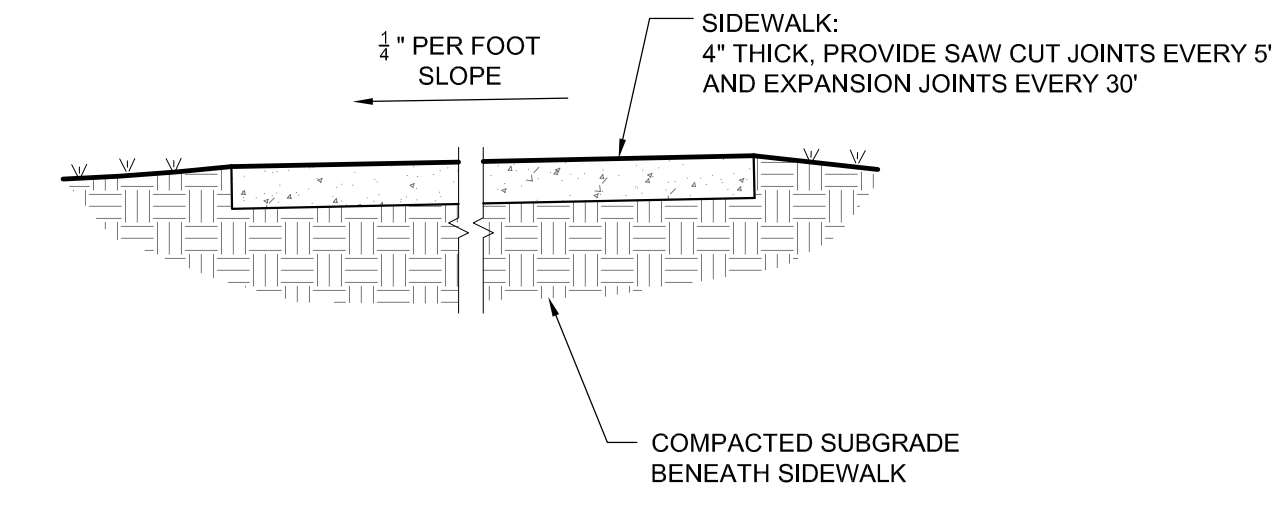
1. CONCRETE SHALL BE 3,000 P.S.I.
2. EXPANSION JOINTS ARE TO HAVE JOINT FILLER AND SEALER
3. FINISH ALL CONCRETE WITH A CURING COMPOUND
4. COMPACTED SUBGRADE TO BE 95% MAX. STANDARD PROCTOR DRY DENSITY



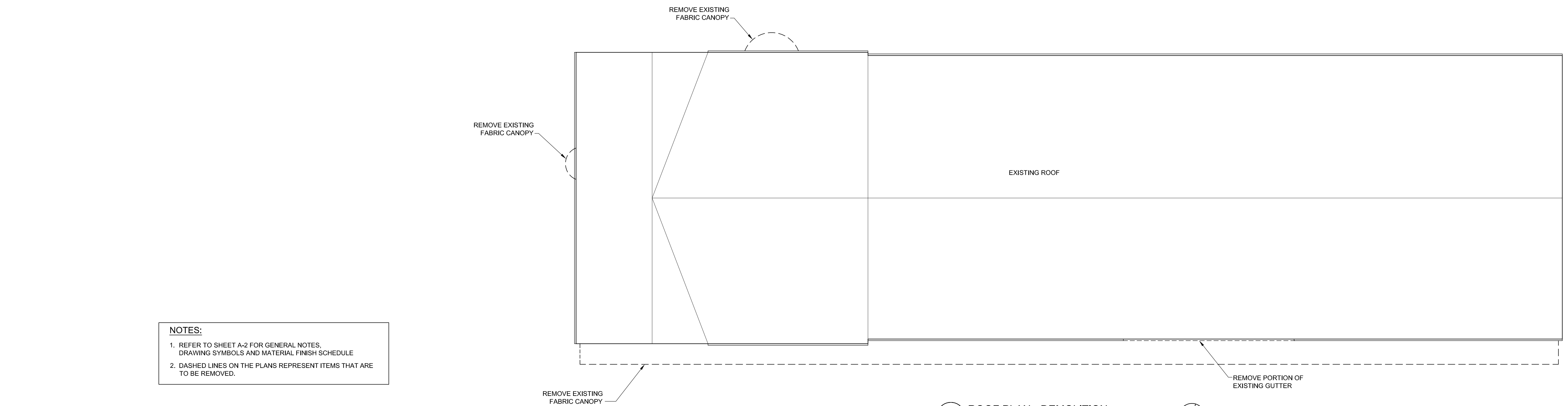
3 PAVEMENT - SECTION DETAIL  
 1" = 1'-0"



4 CURB & GUTTER - SECTION DETAIL  
 1" = 1'-0"

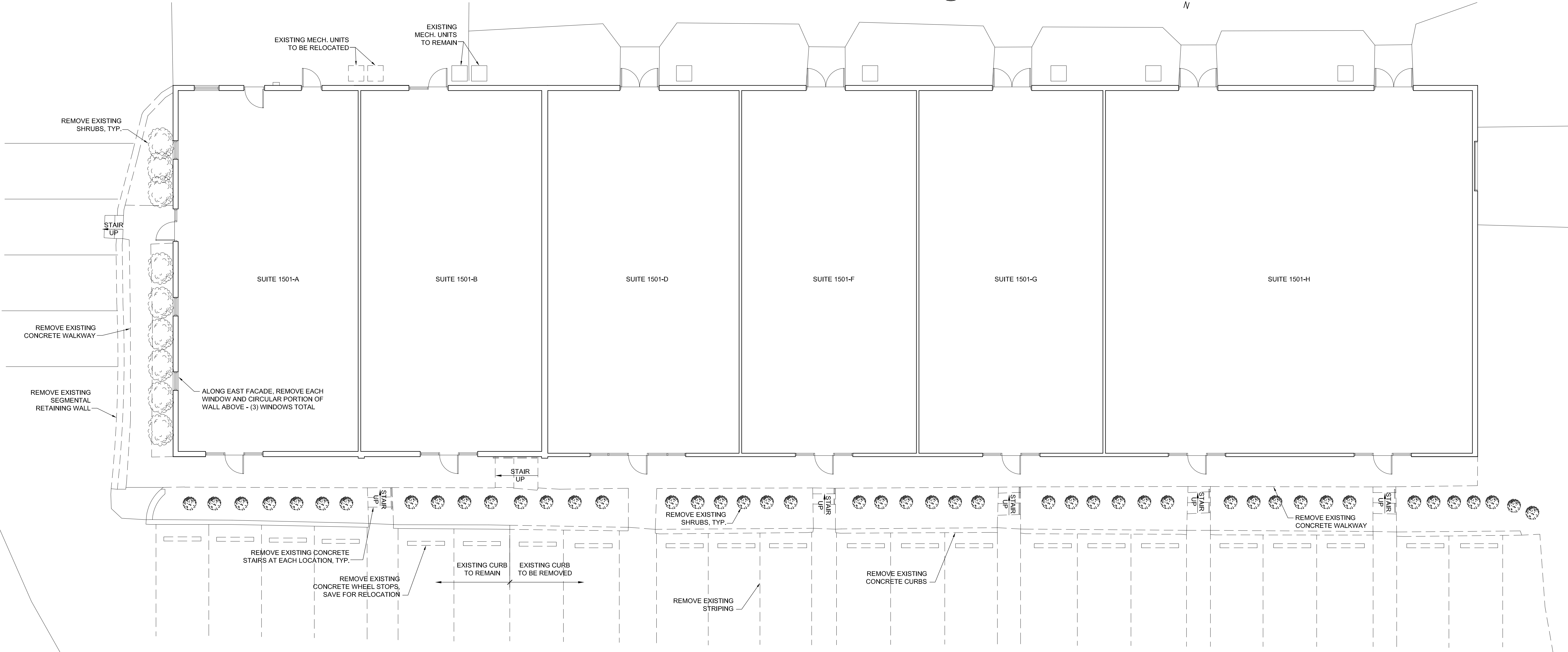


5 SIDEWALK - SECTION DETAIL  
 1" = 1'-0"

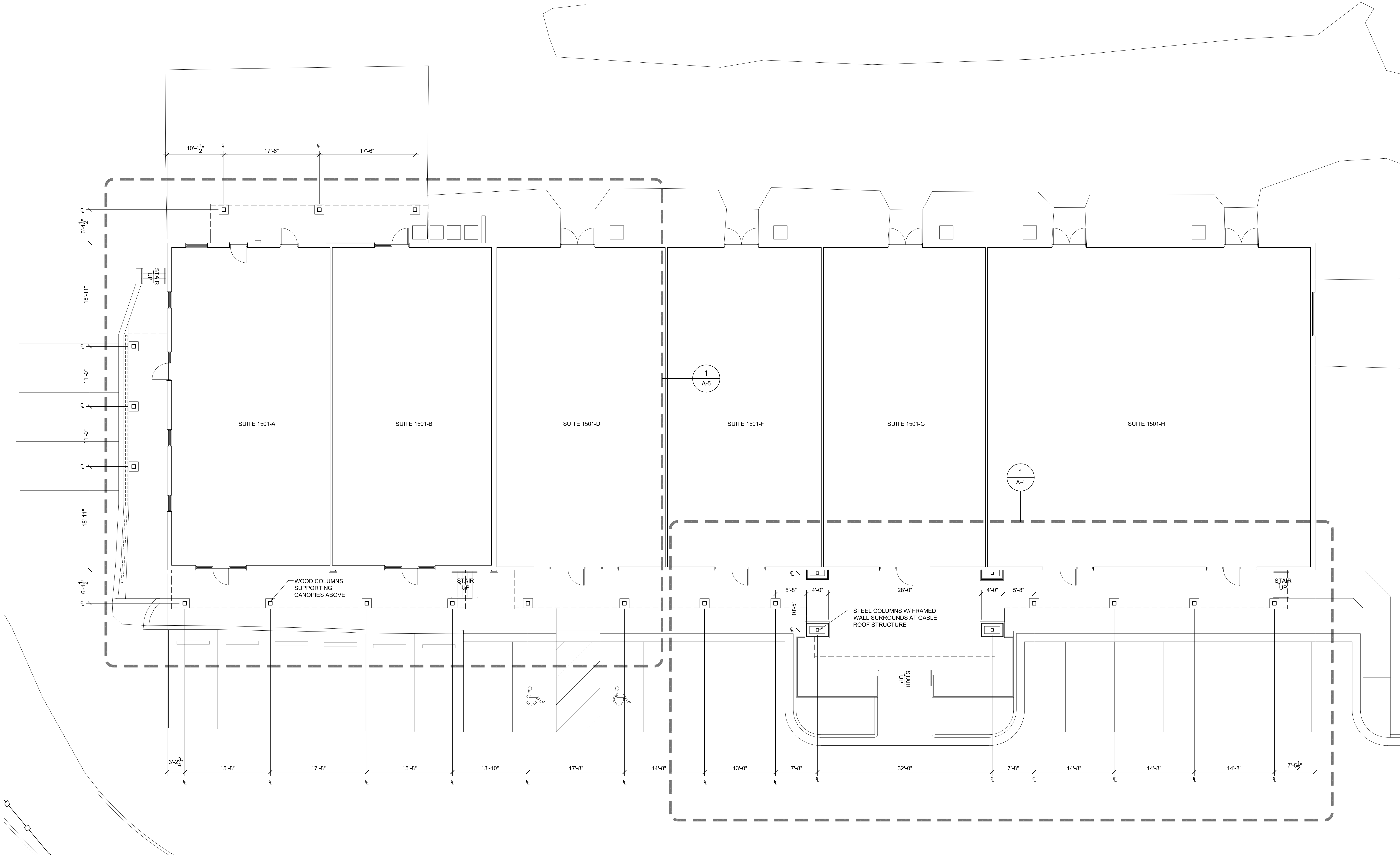


**NOTES:**  
 1. REFER TO SHEET A-2 FOR GENERAL NOTES, DRAWING SYMBOLS AND MATERIAL FINISH SCHEDULE  
 2. DASHED LINES ON THE PLANS REPRESENT ITEMS THAT ARE TO BE REMOVED.

2 **ROOF PLAN - DEMOLITION**  
 3/32" = 1'-0"



1 **FLOOR PLAN - DEMOLITION**  
 1/8" = 1'-0"



**1 FLOOR PLAN - NEW WORK**  
 1/8" = 1'-0"

**NOTE:**  
 1. REFER TO SHEET A-2 FOR GENERAL NOTES, DRAWING SYMBOLS AND MATERIAL FINISH SCHEDULE



MATERIAL FINISHES		
TYPE	MATERIAL	DESCRIPTION
ROOF	STANDING SEAM METAL PANELS	BROWN COLOR AT CANOPIES, DARK RED COLOR AT CENTER AWNING
GUTTERS AND DOWNSPOUTS	ALUMINUM	BROWN COLOR
WALLS	EXISTING EXPOSED FINISHES	PAINTED - BEIGE COLOR
	MANUFACTURED STONE VENEER AT WALL AND COLUMN BASES AND AT SIDES OF RAISED PATIO	GRAY / BROWN COLOR
	FIBER CEMENT ON NEW WALLS AT COVERED ENTRY	BOARD AND BATTEN SIGING - VERTICAL PATTERN PAINTED - BEIGE COLOR
	FIBER CEMENT ON PORTION OF REAR WALL WHERE PLYWOOD IS REMOVED	LAP SIDING - HORIZONTAL PATTERN, PAINTED - BEIGE COLOR
CEILINGS	EXTERIOR GRADE PLYWOOD	PAINTED
EXPOSED CANOPY COLUMNS AND BRACKETS	ROUGH CUT CEDAR	STAINED - LIGHT BROWN COLOR
RAILINGS AND FENCES AT BUILDING	GALVANIZED STEEL	PAINTED - BLACK COLOR
FENCE AT PROPERTY FRONT	TREATED WOOD	PAINTED - WHITE COLOR

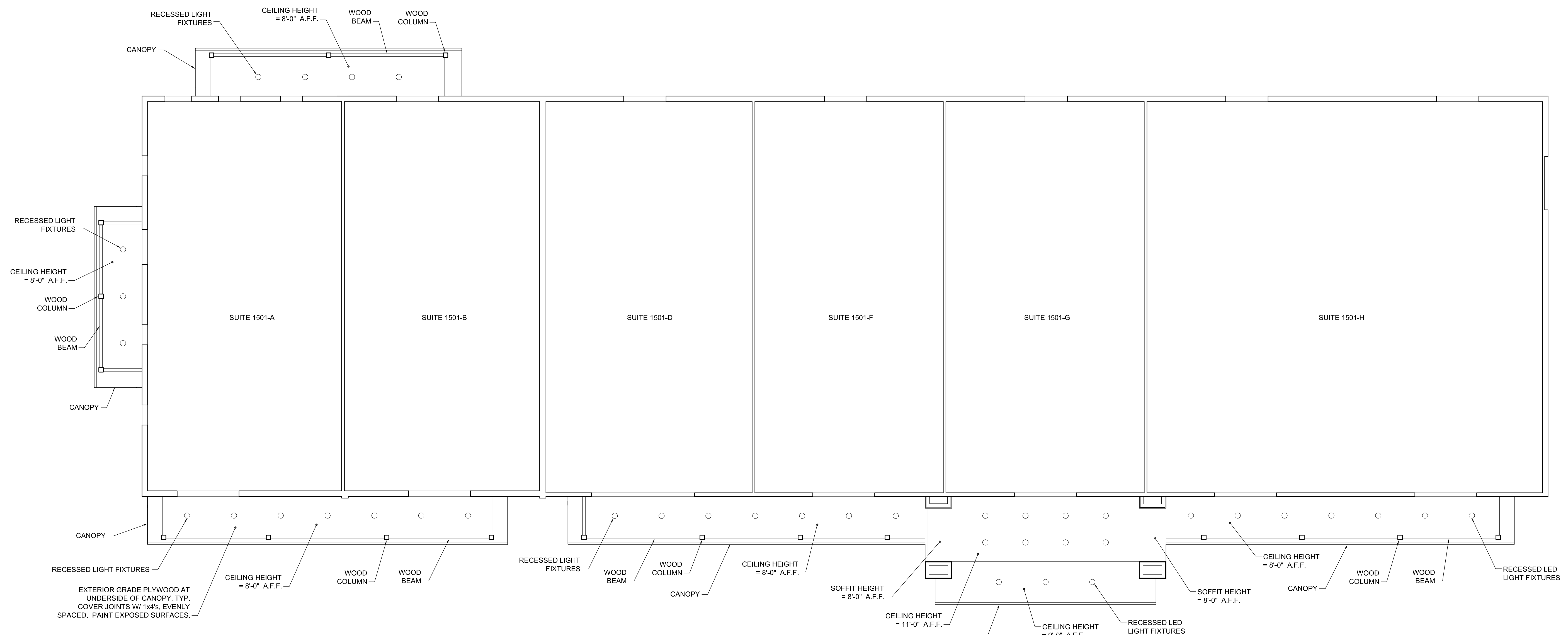
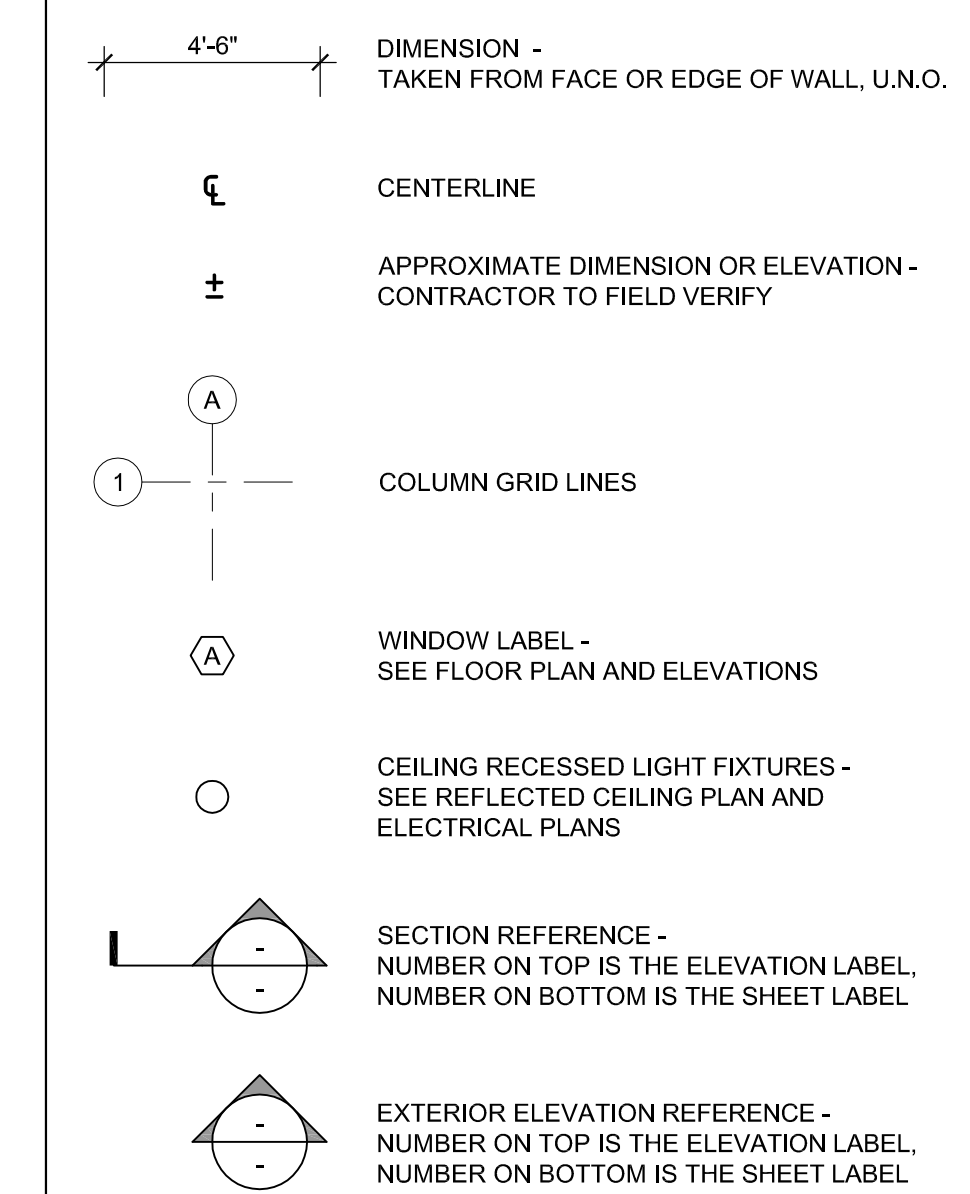
**NOTES:**

- ACTUAL COLOR AND PATTERN SELECTIONS ARE TO BE MADE BY THE OWNER FROM MANUFACTURER'S STANDARDS, UNLESS IT IS NOTED TO MATCH EXISTING FINISHES.
- SEE DRAWINGS FOR MATERIAL LOCATIONS AND NOTES ON ADDITIONAL MATERIALS.
- MATERIAL INSTALLATIONS ARE TO BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. SURFACES TO RECEIVE PAINT ARE TO BE PREPARED AND PRIMED IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
- PROVIDE MANUFACTURER'S STANDARD WARRANTY FOR EACH MATERIAL.

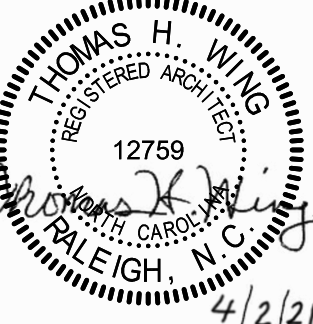
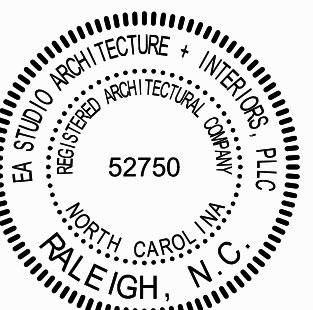
**GENERAL NOTES**

- EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY CONTRACTOR WHERE DEMOLITION IS TO OCCUR. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY INCONSISTENCIES PRIOR TO STARTING ANY WORK.
- WHERE DEMOLITION IS CALLED FOR, ALL RELATED ITEMS AND ASSEMBLIES ARE TO BE REMOVED. WHERE THE CONTRACTOR CAN DEMONSTRATE THAT A COMPONENT THAT WOULD OTHERWISE BE REMOVED CAN INSTEAD BE REUSED, THEN, UPON APPROVAL OF THE OWNER, THE COMPONENT MAY BE REUSED.
- WHERE DEMOLITION HAS OCCURED, CONTRACTOR IS TO PATCH AND REPAIR ANY DAMAGED ADJACENT SURFACES AND MATERIALS THAT ARE TO REMAIN. WHERE EXISTING WALL SURFACES THAT ARE TO REMAIN ARE REPAIRED OR PATCHED, THE CONTRACTOR IS TO PRIME, FILL, AND PAINT TO MATCH EXISTING CONDITIONS.
- SURFACES RECEIVING NEW FINISHES SHALL HAVE FOREIGN MATTER AND LOOSE DEBRIS REMOVED (TAPES, ADHESIVES, NAILS, SCREWS, ETC). THE SURFACES SHALL BE SCRAPED, SANDED, AND PREPARED TO ACCEPT THE NEW FINISH. VOIDS SHALL BE PATCHED AND REPAIRED.
- CONTRACTOR SHALL PROTECT DUCT OPENINGS AND RETURN AIR FROM CONTAMINATION WITH CONSTRUCTION DEBRIS AND DUST, AND SHALL WRAP AND PROTECT EXISTING ELECTRICAL EQUIPMENT TO PREVENT DAMAGE BY INFILTRATION OF DUST.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF DEBRIS ACCUMULATED DURING DEMOLITION AND CONSTRUCTION.
- NEW WALL SIGNAGE IS TO BE DONE BY A SEPARATE SIGNAGE CONTRACTOR. WHERE REMOVAL OF EXISTING WALL SIGNAGE IS REQUIRED TO BE DONE BY SEPARATE SIGNAGE CONTRACTOR(S), THE GENERAL CONTRACTOR IS TO COORDINATE THEIR WORK WITH THE WORK OF THE SIGNAGE CONTRACTOR(S).

**DRAWING SYMBOLS**



1 RELECTED CEILING PLAN - NEW WORK  
1/8" = 1'-0"



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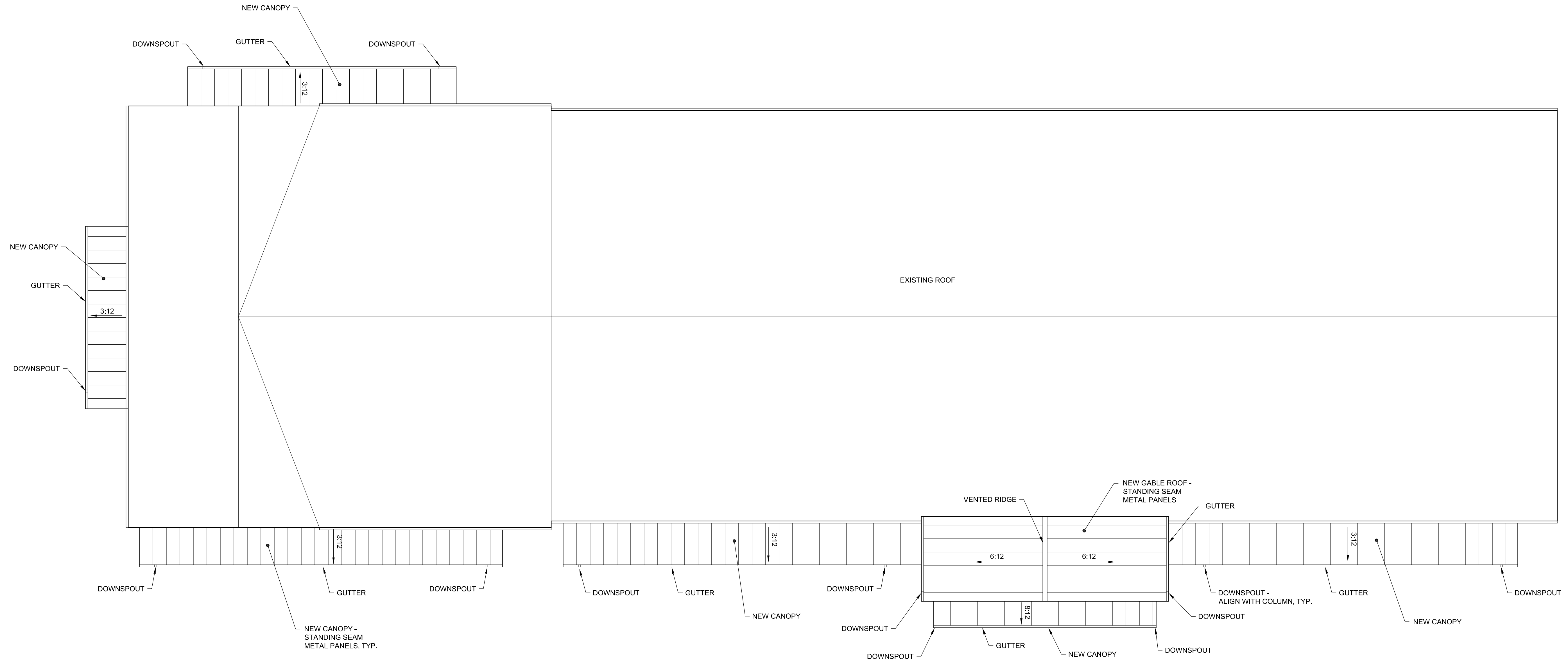
DATE  
04/02/2021

SHEET TITLE

REFLECTED  
CEILING PLAN -  
NEW WORK

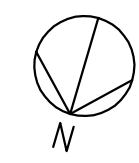
SHEET

A-2



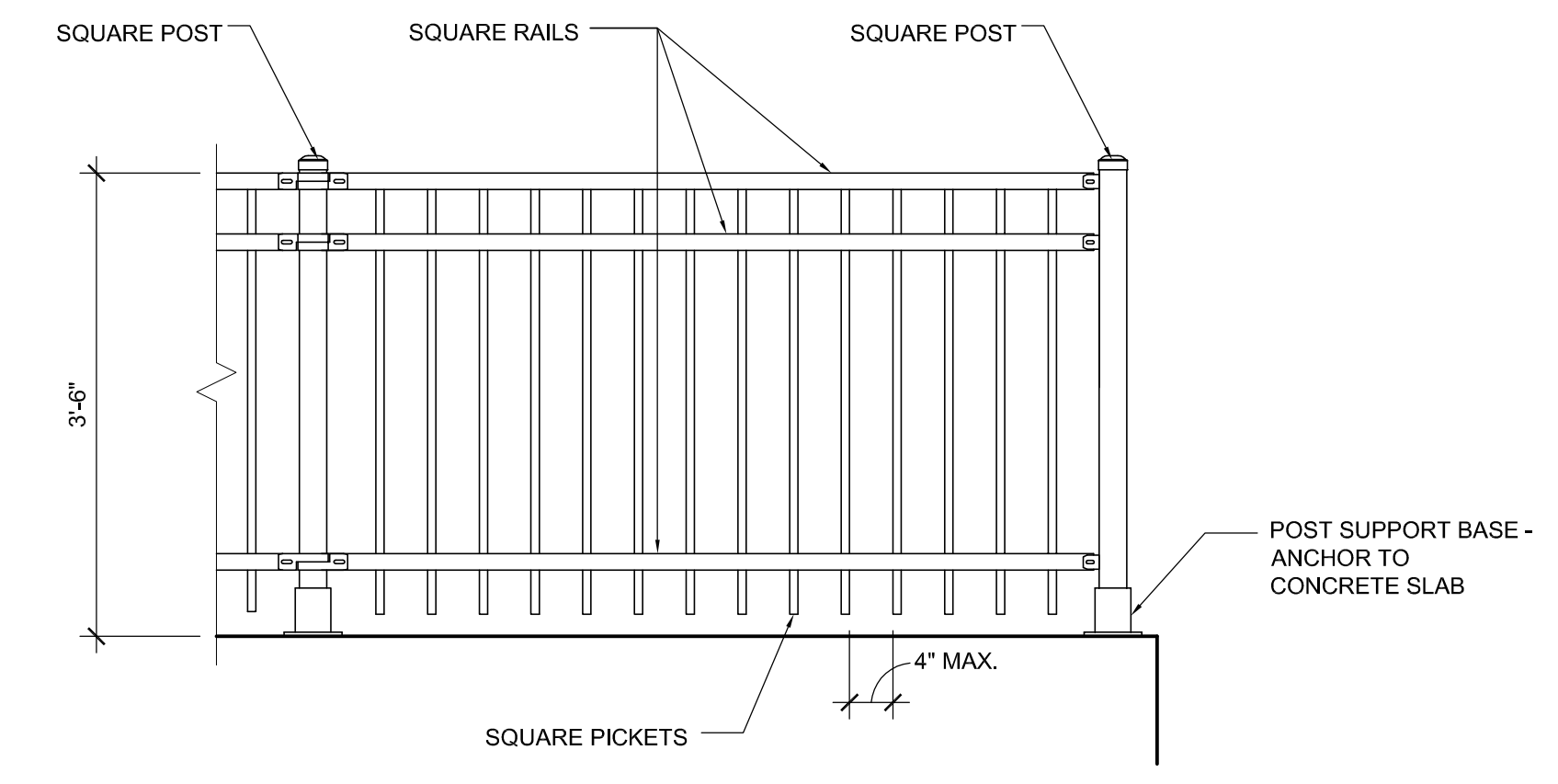
NOTE:  
 CONNECT DOWNSPOUTS TO NEW  
 UNDERGROUND DRAIN SYSTEM

**1** ROOF PLAN - NEW WORK  
 1/8" = 1'-0"

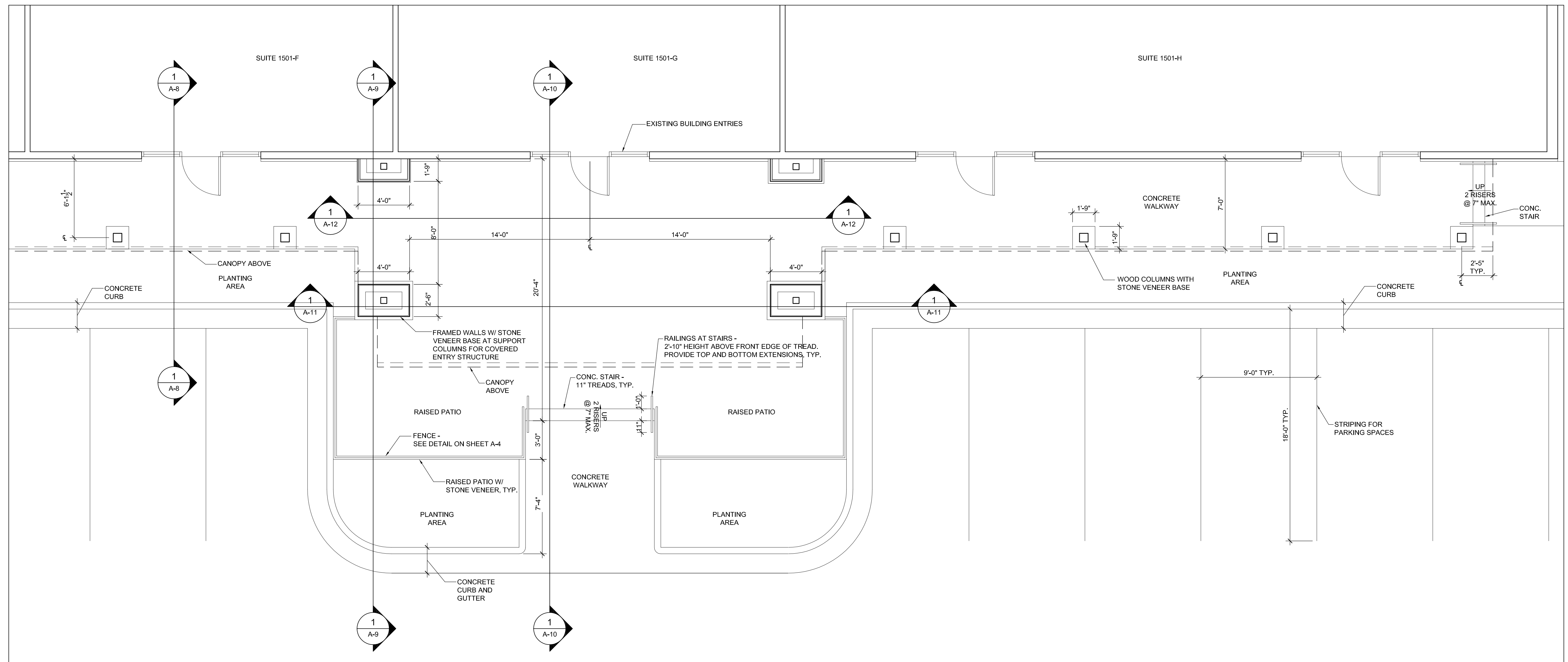


NOTE:  
 1. REFER TO SHEET A-2 FOR GENERAL NOTES,  
 DRAWING SYMBOLS AND MATERIAL FINISH SCHEDULE

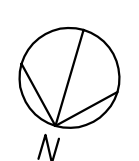
- NOTES:
- FENCE IS TO BE WELDED COMMERCIAL ORNAMENTAL GALVANIZED STEEL, BLACK COLOR.
  - THE FENCE SHALL BE DESIGNED TO RESIST A LOAD OF 50 POUNDS PER LINEAR FOOT AND A SINGLE CONCENTRATED LOAD OF 200 POUNDS.
  - THE FENCE IS TO HAVE NO OPENING GREATER THAN 4"



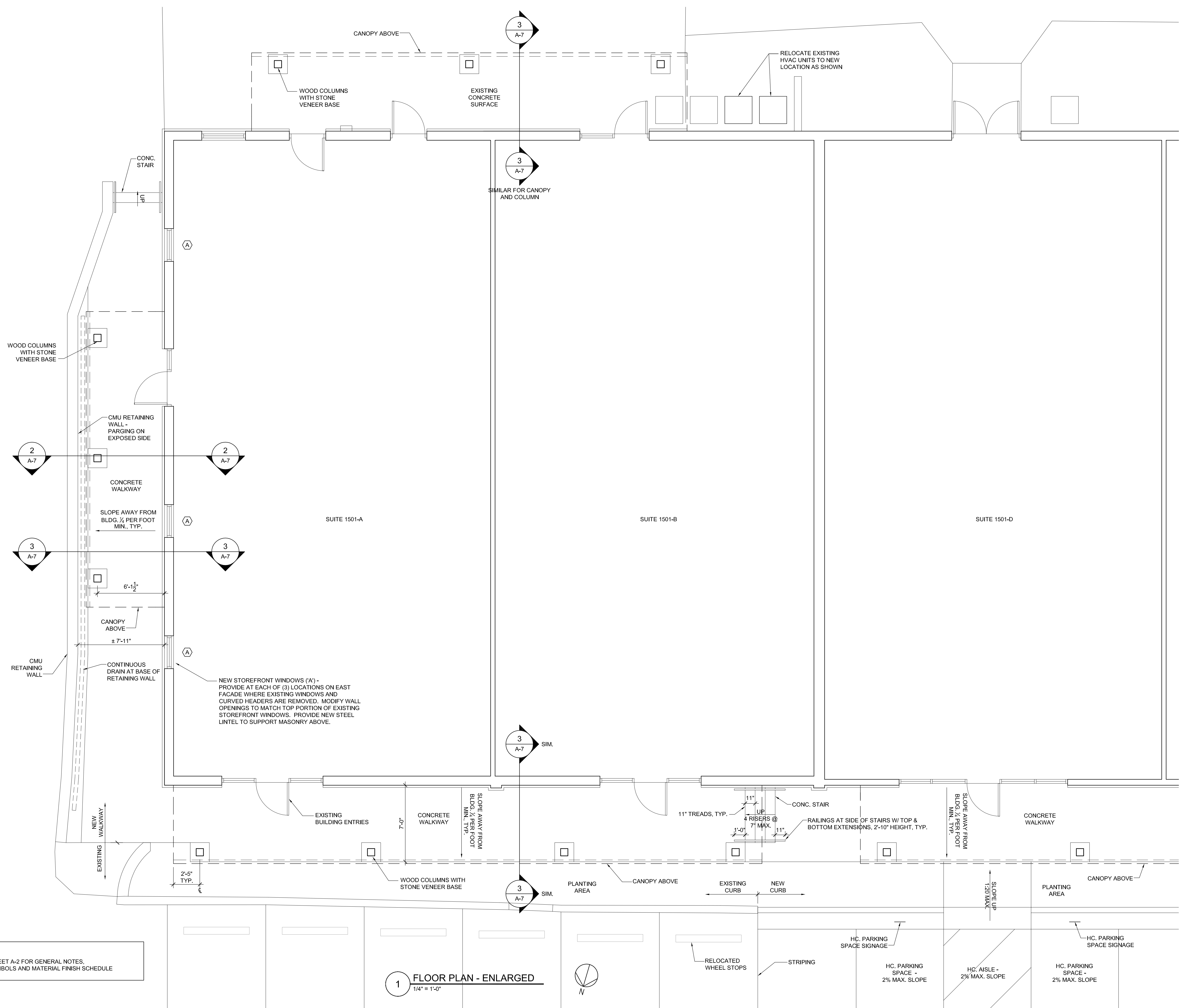
2 DETAIL - FENCE AT RAISED PATIO  
 1/2" = 1'-0"



1 FLOOR PLAN - ENLARGED  
 1/4" = 1'-0"



NOTE:  
 1. REFER TO SHEET A-2 FOR GENERAL NOTES, DRAWING SYMBOLS AND MATERIAL FINISH SCHEDULE



**NOTE:**  
 1. REFER TO SHEET A-2 FOR GENERAL NOTES, DRAWING SYMBOLS AND MATERIAL FINISH SCHEDULE

**1 FLOOR PLAN - ENLARGED**  
 1/4" = 1'-0"

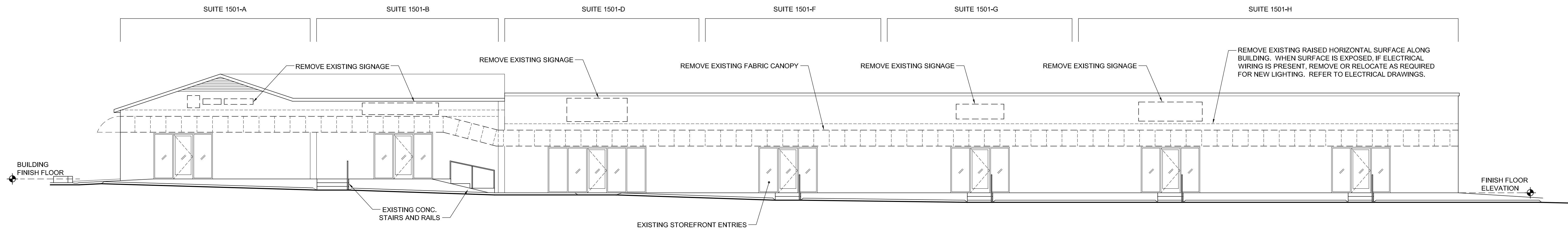
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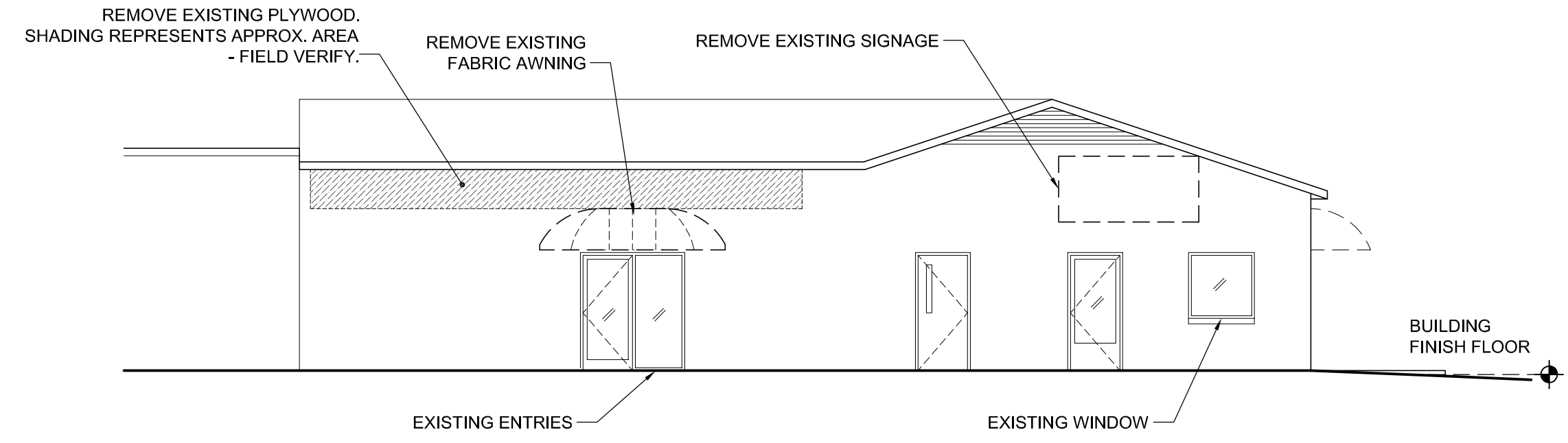
DATE  
 04/02/2021

SHEET TITLE  
 FLOOR PLAN - ENLARGED

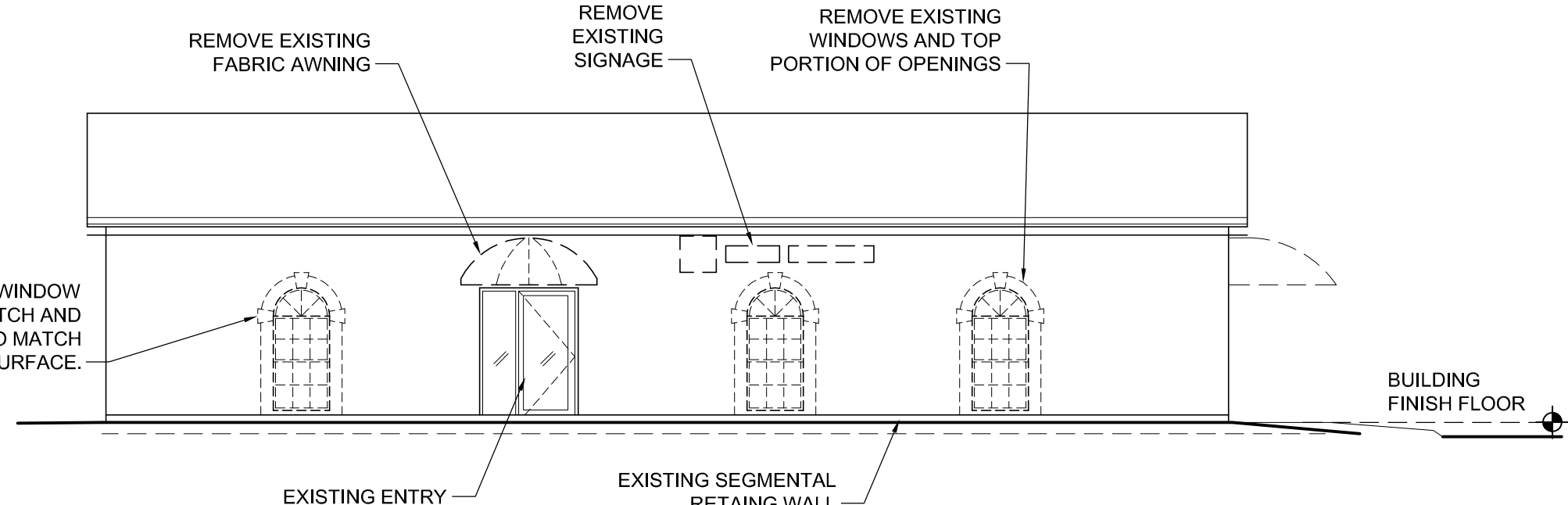
SHEET  
**A-5**



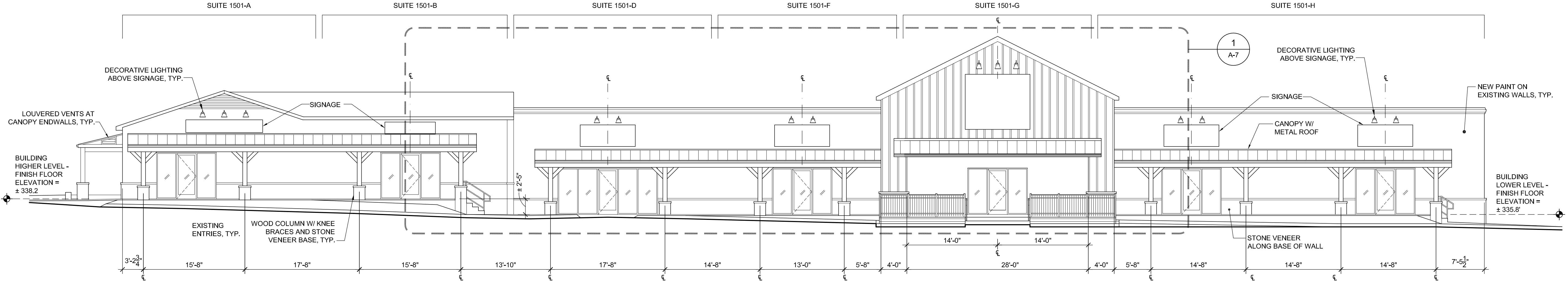
**1 NORTH EXTERIOR ELEVATION - DEMOLITION**  
 1/8" = 1'-0"



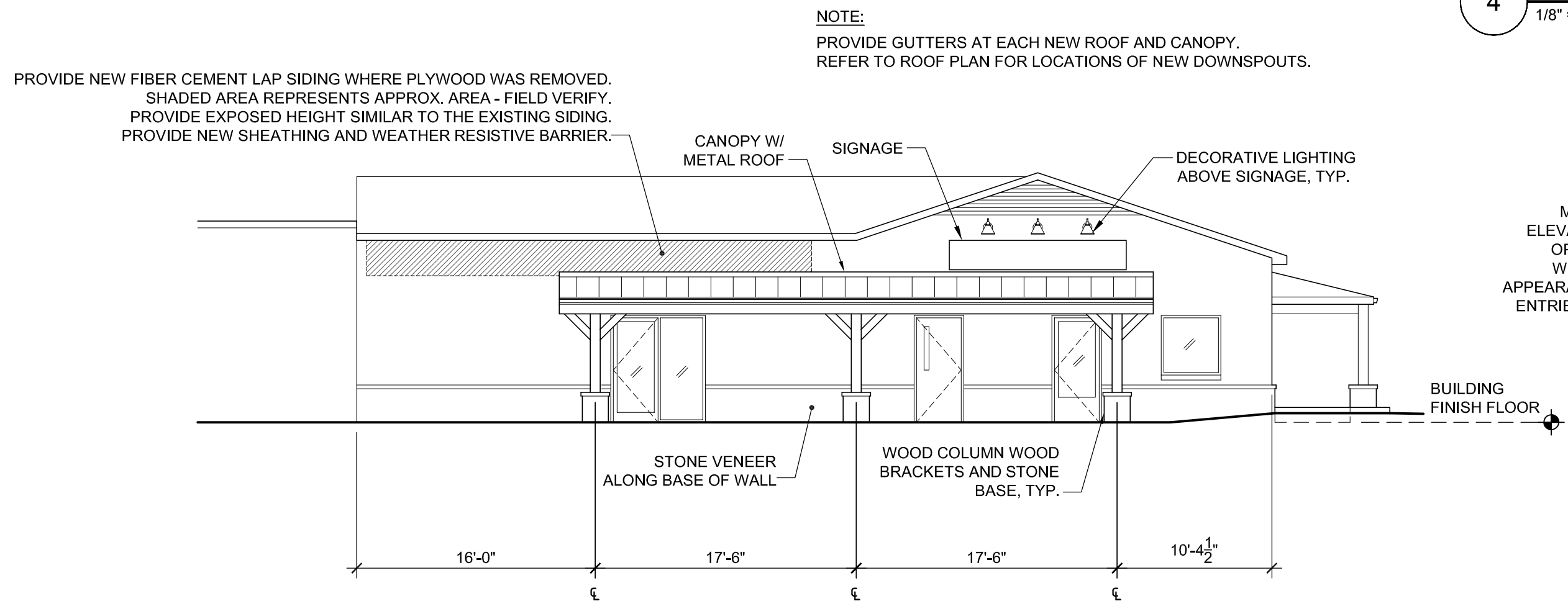
**2 SOUTH EXTERIOR ELEVATION - DEMOLITION**  
 1/8" = 1'-0"



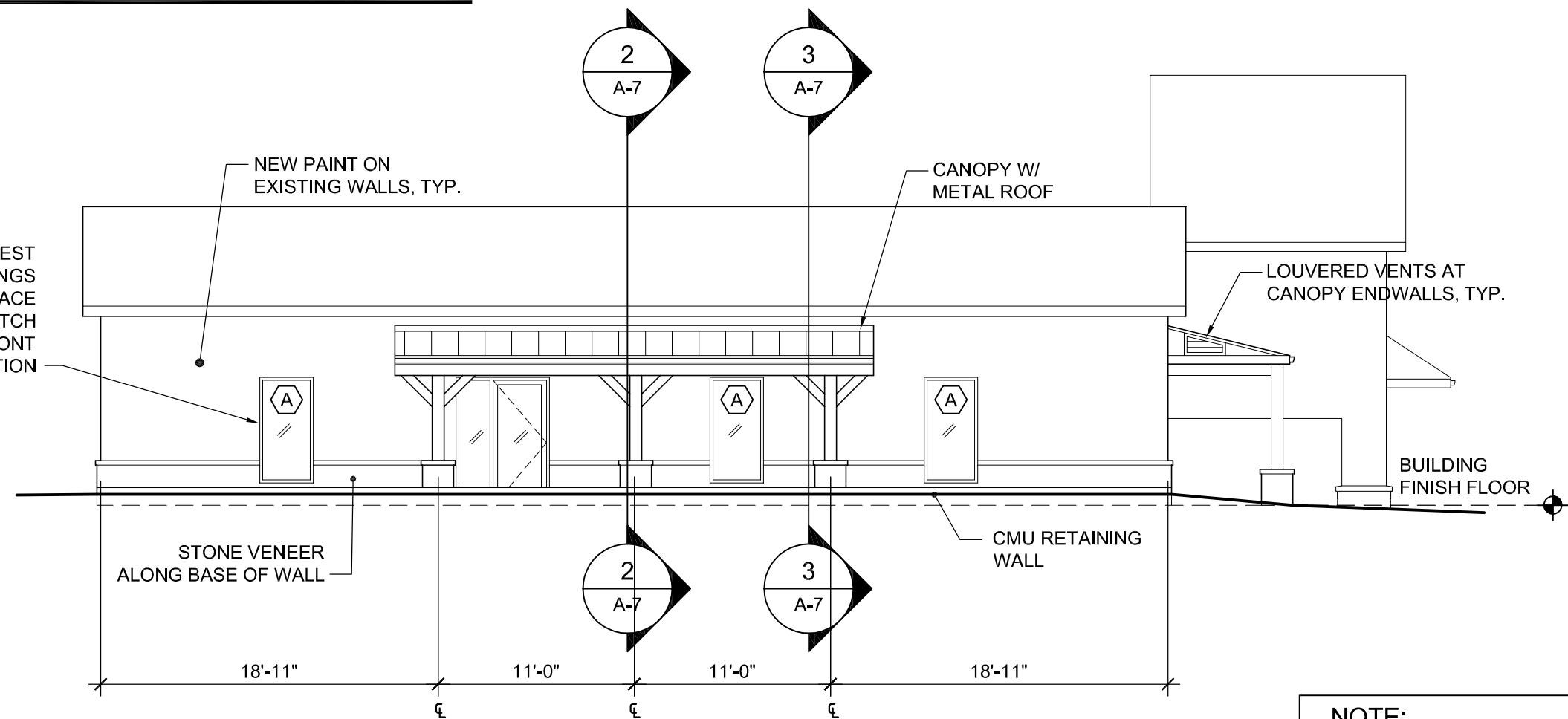
**3 EAST EXTERIOR ELEVATION - DEMOLITION**  
 1/8" = 1'-0"



**4 NORTH EXTERIOR ELEVATION - NEW WORK**  
 1/8" = 1'-0"



**5 SOUTH EXTERIOR ELEVATION - NEW WORK**  
 1/8" = 1'-0"



**6 EAST EXTERIOR ELEVATION - NEW WORK**  
 1/8" = 1'-0"

**NOTE:**  
 1. REFER TO SHEET A-2 FOR GENERAL NOTES, DRAWING SYMBOLS AND MATERIAL FINISH SCHEDULE

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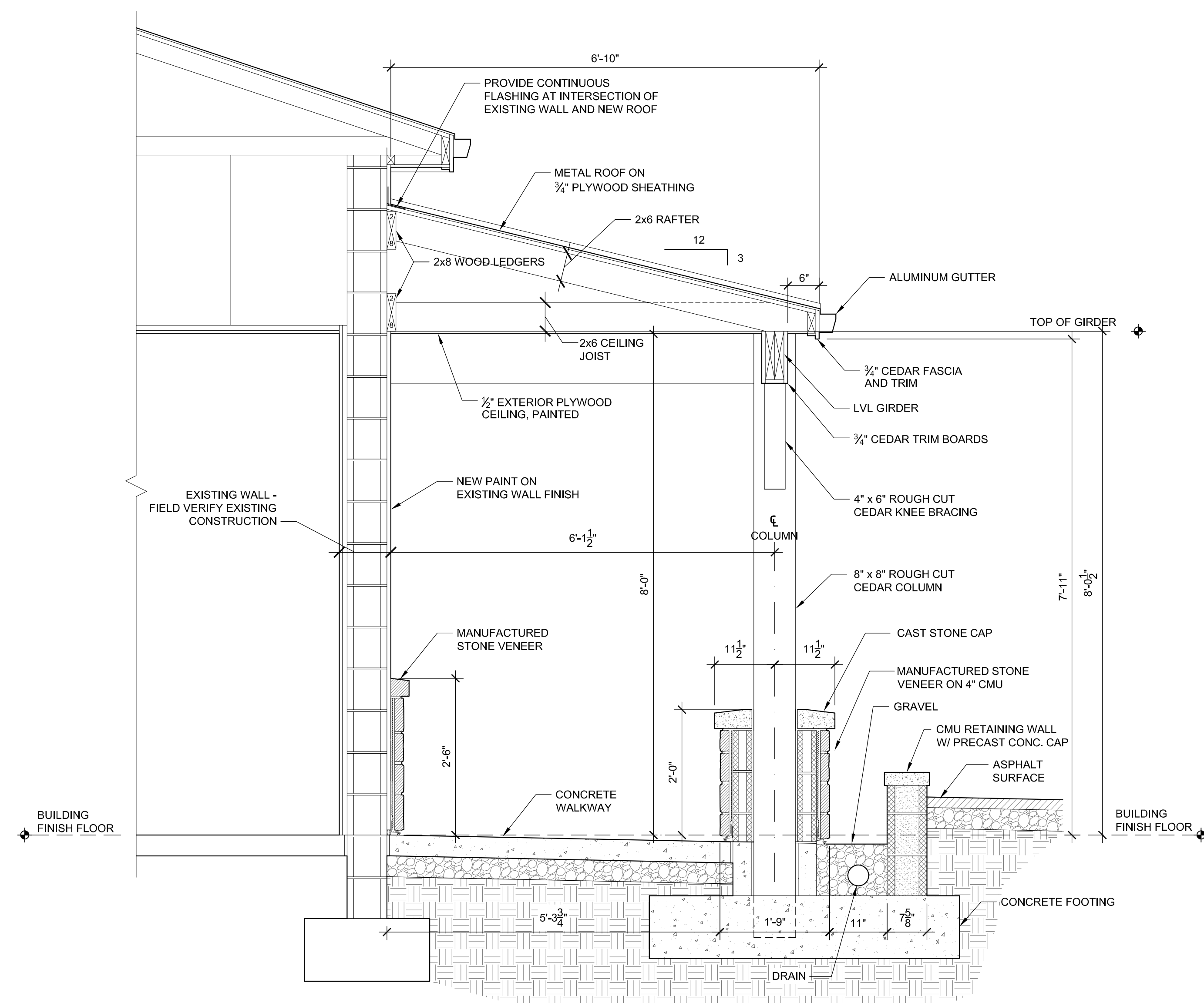
DATE  
 04/02/2021

SHEET TITLE

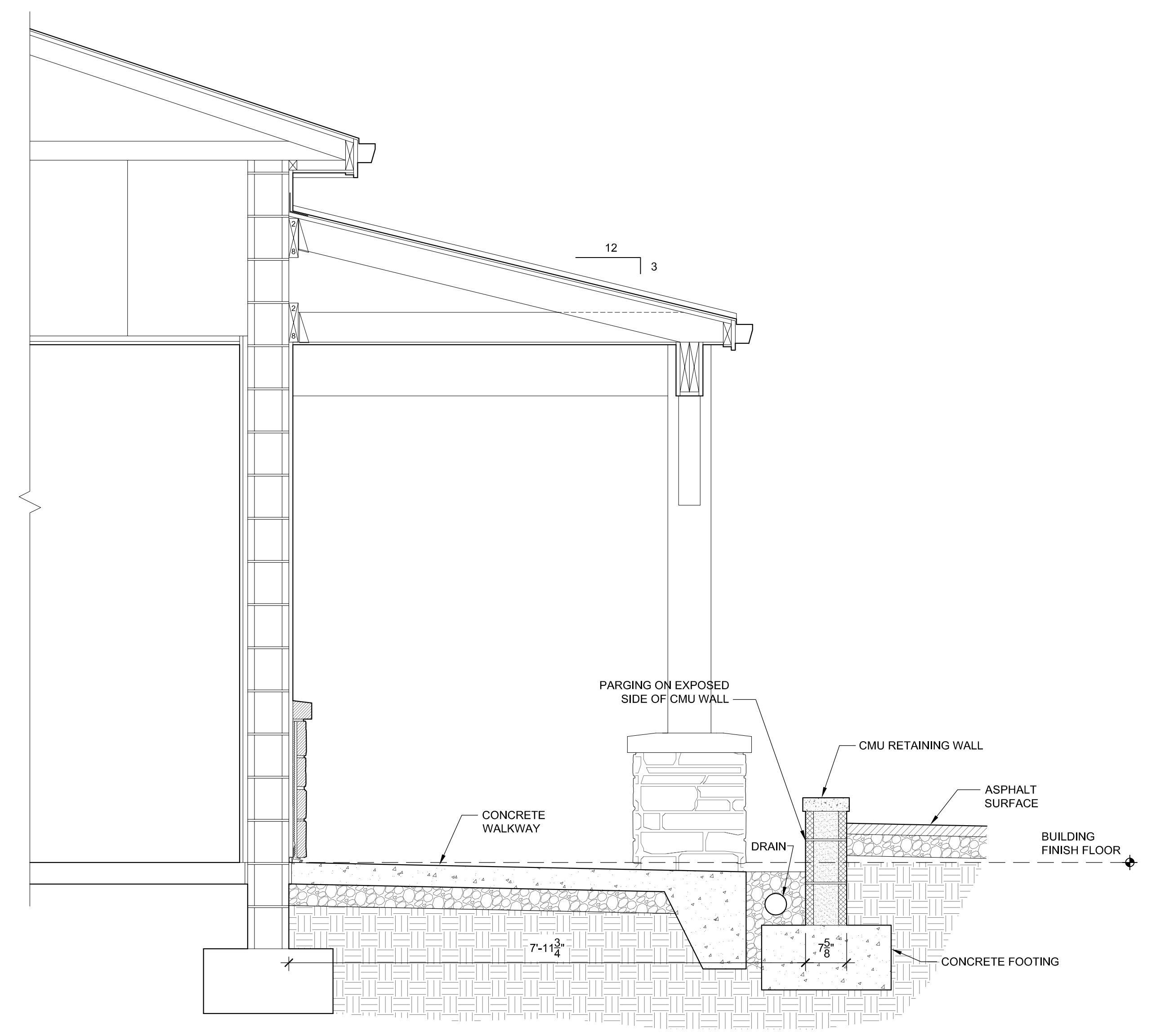
EXTERIOR ELEVATION - ENLARGED SECTIONS

SHEET

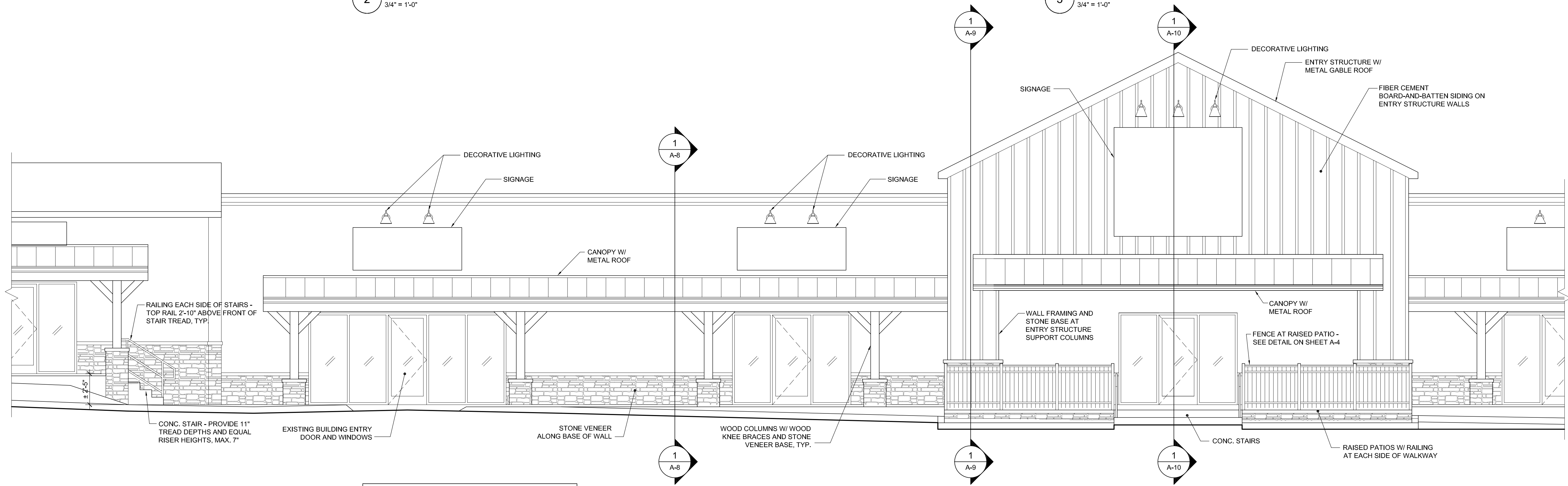
A-7



2 SECTION  
 3/4" = 1'-0"



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



1 NORTH EXTERIOR ELEVATION - ENLARGED PORTION  
 1/4" = 1'-0"

**NOTE:**  
 1. REFER TO SHEET A-2 FOR GENERAL NOTES, DRAWING SYMBOLS AND MATERIAL FINISH SCHEDULE

RAILING EACH SIDE OF STAIRS - TOP RAIL 2'-10" ABOVE FRONT OF STAIR TREAD, TYP.

CONC. STAIR - PROVIDE 11" TREAD DEPTHS AND EQUAL RISER HEIGHTS, MAX. 7"

EXISTING BUILDING ENTRY DOOR AND WINDOWS

STONE VENEER ALONG BASE OF WALL

WOOD COLUMNS W/ WOOD KNEE BRACES AND STONE VENEER BASE, TYP.

CONC. STAIRS

RAISED PATIOS W/ RAILING AT EACH SIDE OF WALKWAY

WALL FRAMING AND STONE BASE AT ENTRY STRUCTURE SUPPORT COLUMNS

FENCE AT RAISED PATIO - SEE DETAIL ON SHEET A-4

CANOPY W/ METAL ROOF

ENTRY STRUCTURE W/ METAL GABLE ROOF

FIBER CEMENT BOARD-AND-BATTEN SIDING ON ENTRY STRUCTURE WALLS

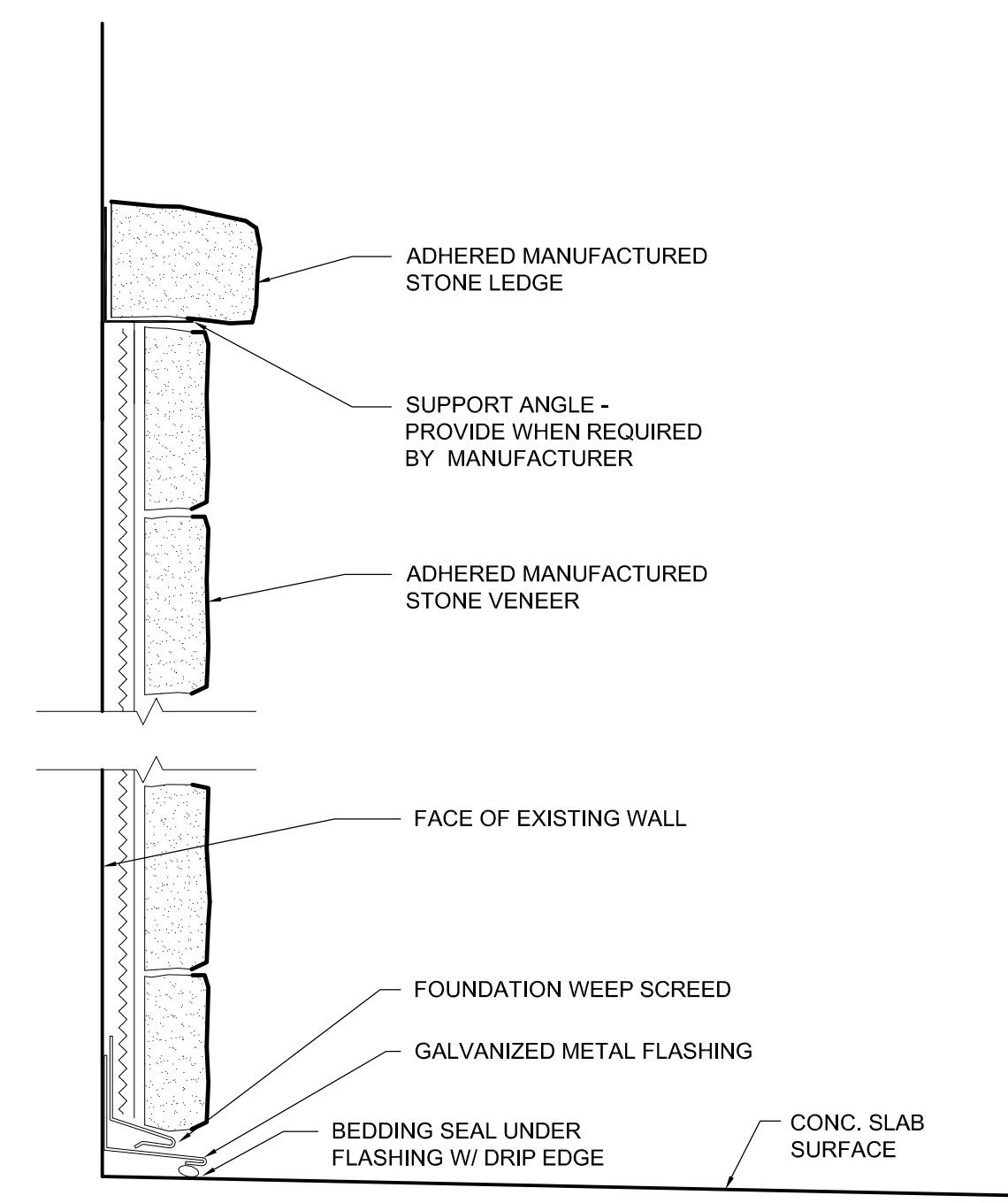
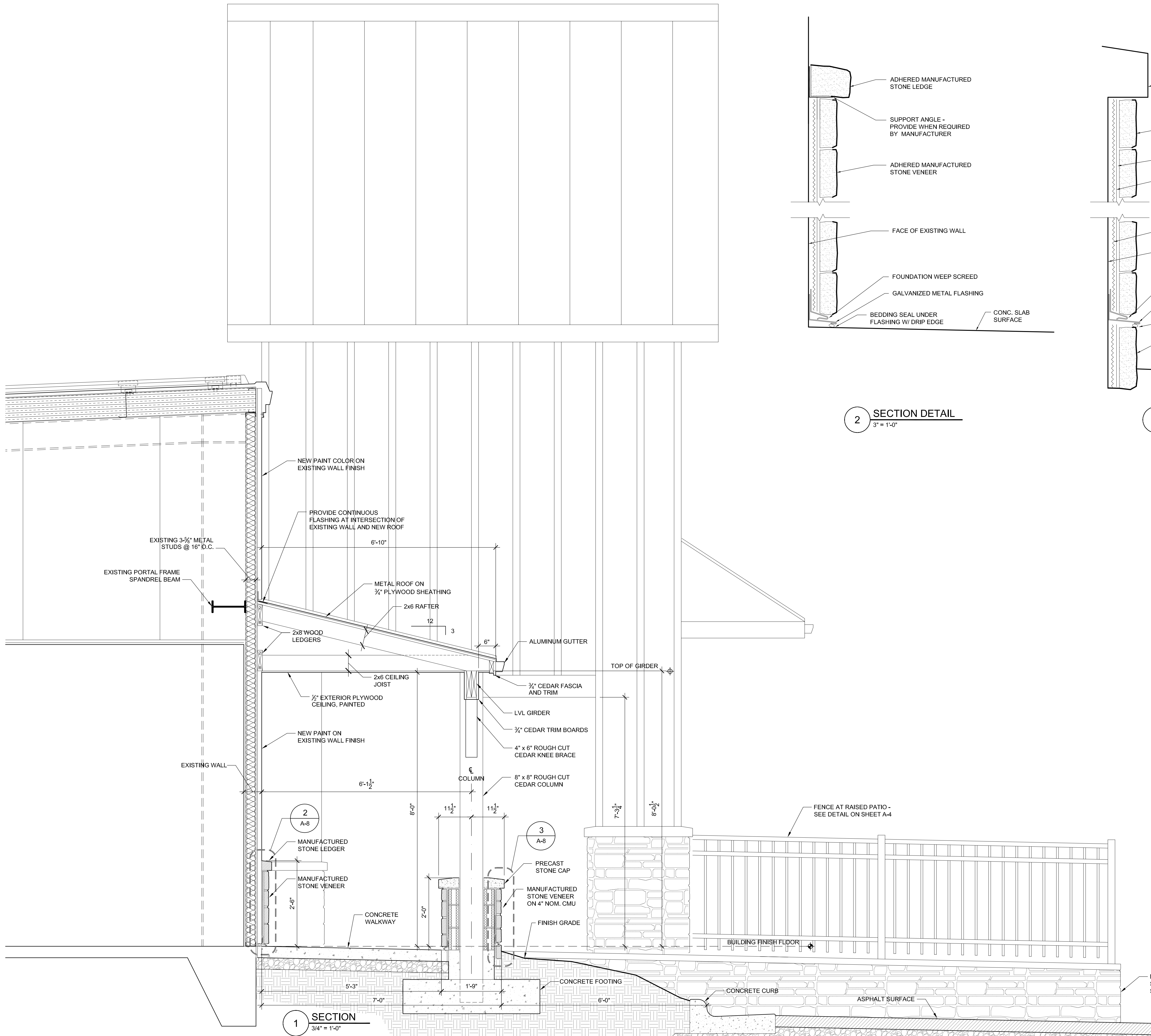
SIGNAGE

DECORATIVE LIGHTING

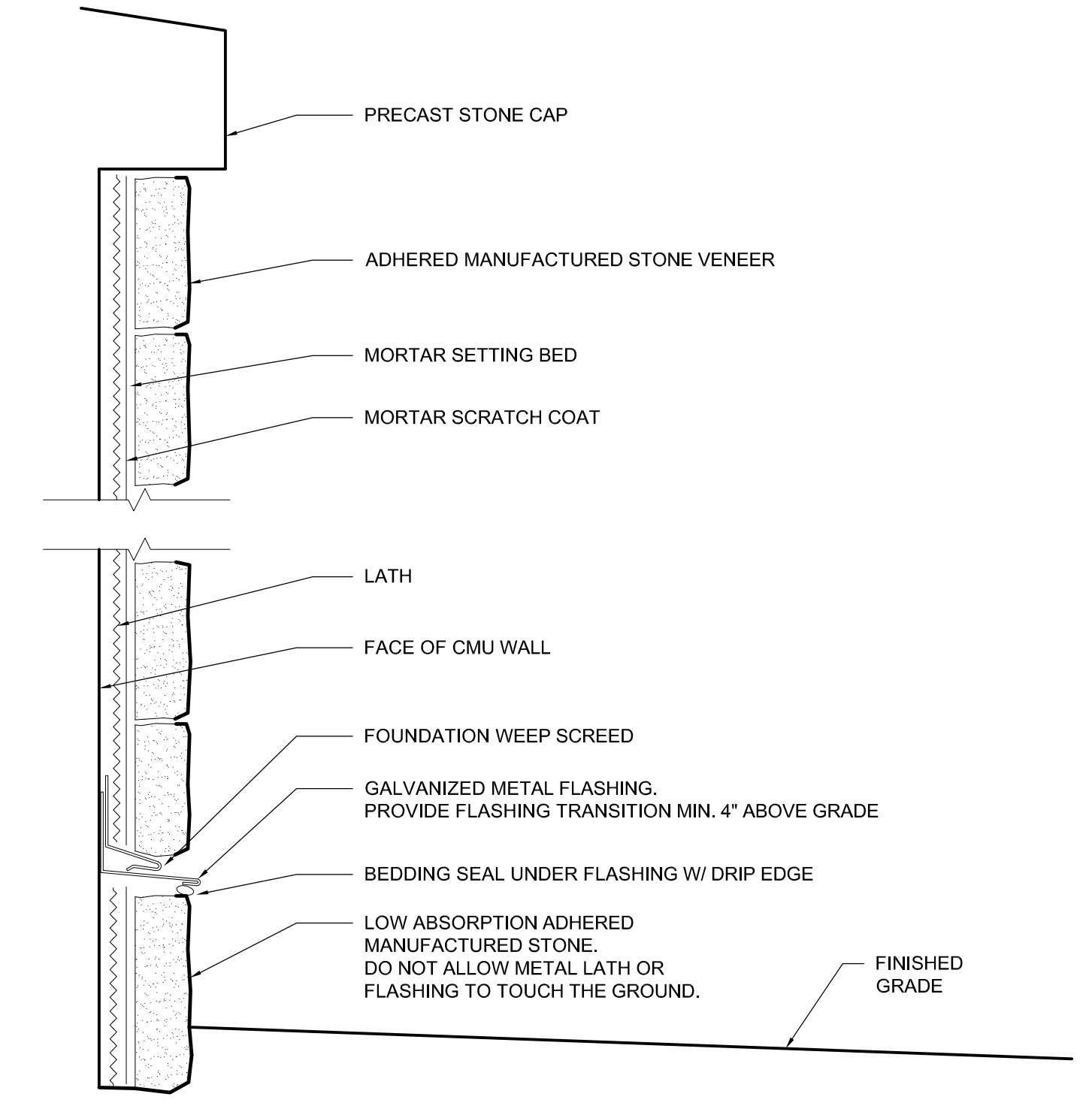
DECORATIVE LIGHTING

SIGNAGE

CANOPY W/ METAL ROOF

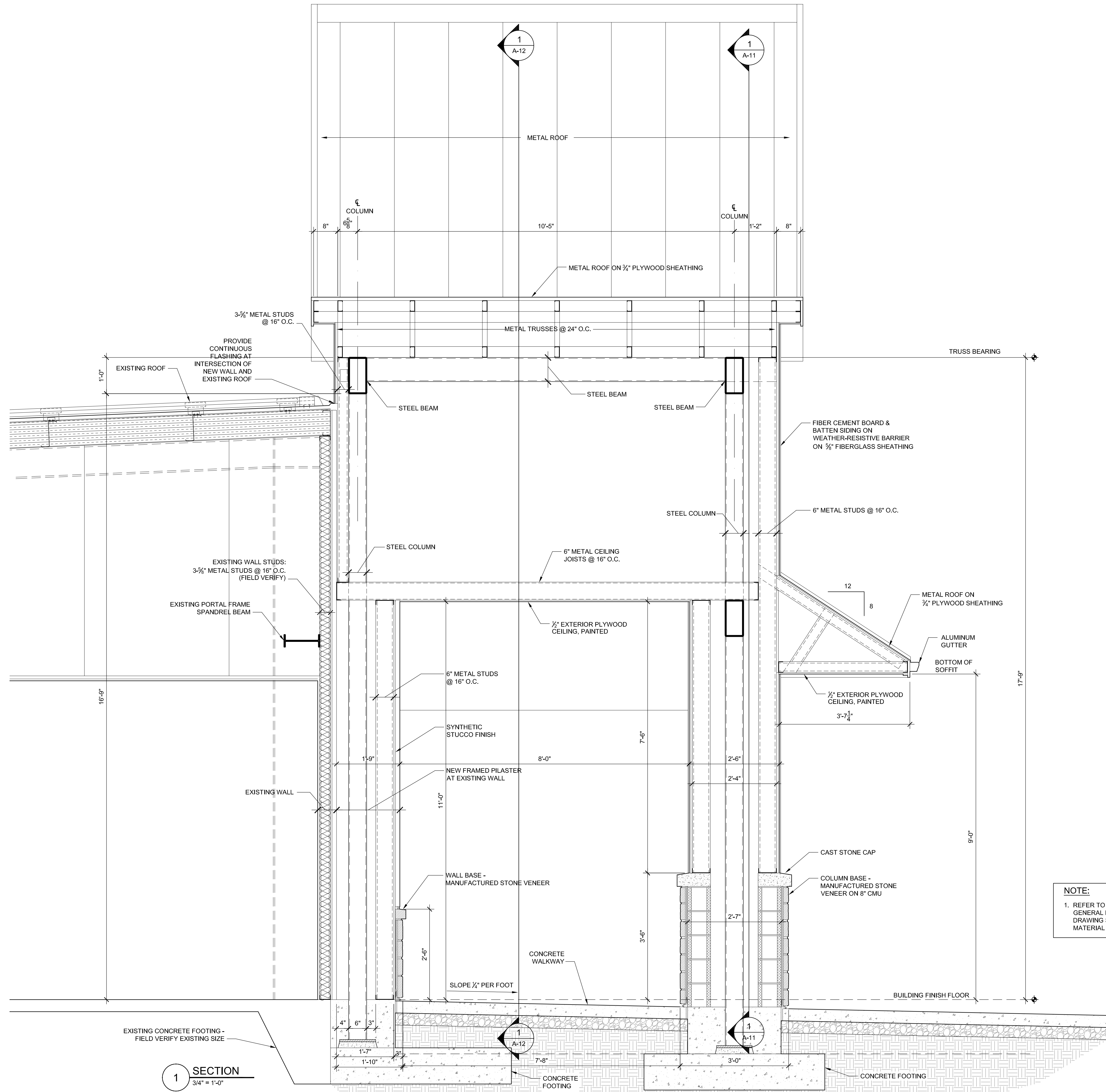


**2 SECTION DETAIL**  
 3" = 1'-0"



**3 SECTION DETAIL**  
 3" = 1'-0"

**NOTE:**  
 1. REFER TO SHEET A-2 FOR GENERAL NOTES, DRAWING SYMBOLS AND MATERIAL FINISH SCHEDULE



**NOTE:**  
 1. REFER TO SHEET A-2 FOR GENERAL NOTES, DRAWING SYMBOLS AND MATERIAL FINISH SCHEDULE

**1 SECTION**  
 3/4" = 1'-0"

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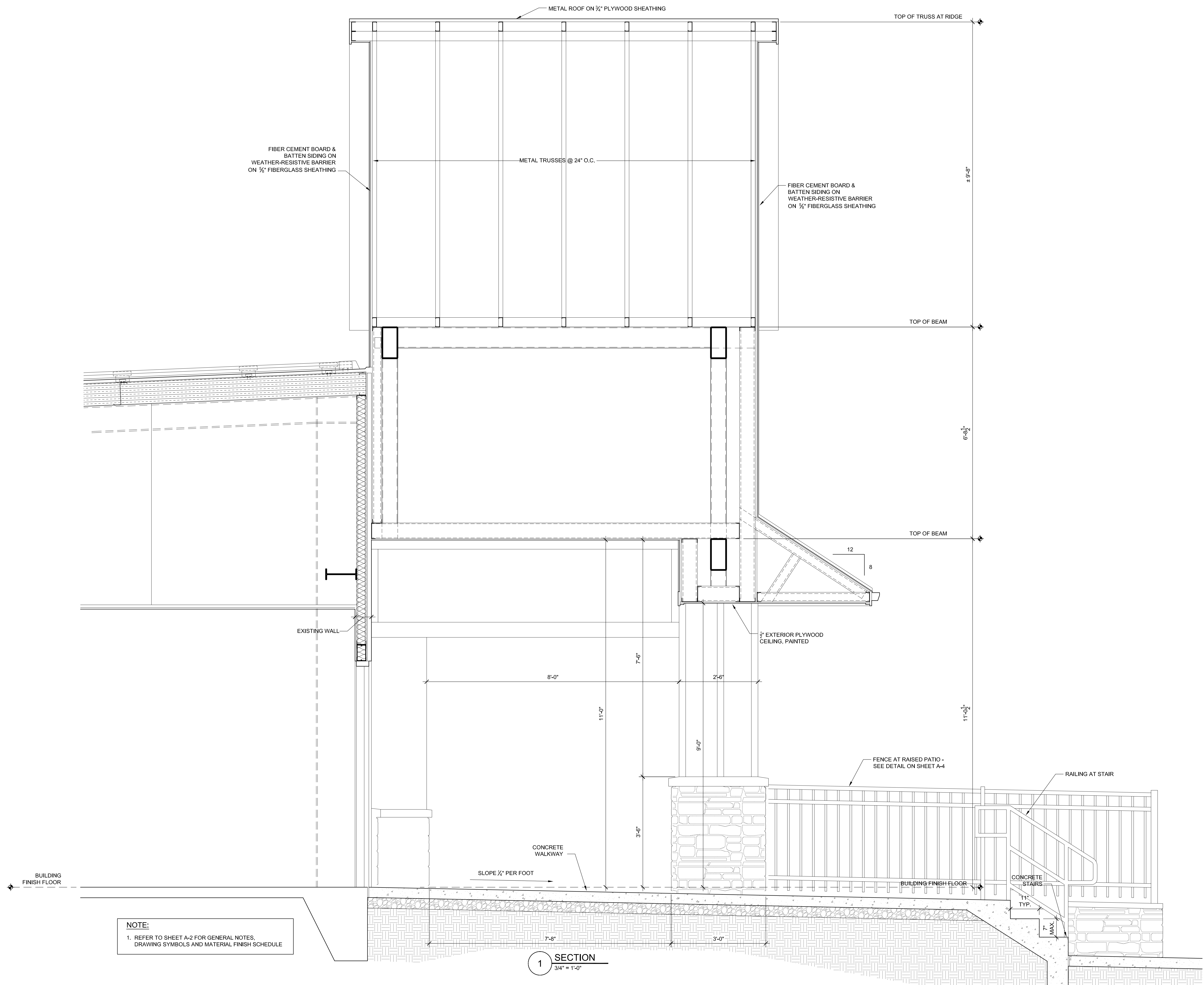
SHEET TITLE

SECTION

SHEET

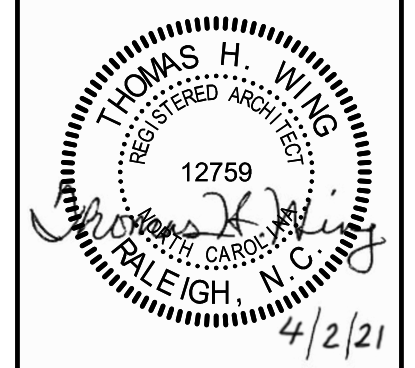
**A-9**





**NOTE:**  
 1. REFER TO SHEET A-2 FOR GENERAL NOTES, DRAWING SYMBOLS AND MATERIAL FINISH SCHEDULE

**1 SECTION**  
 3/4" = 1'-0"



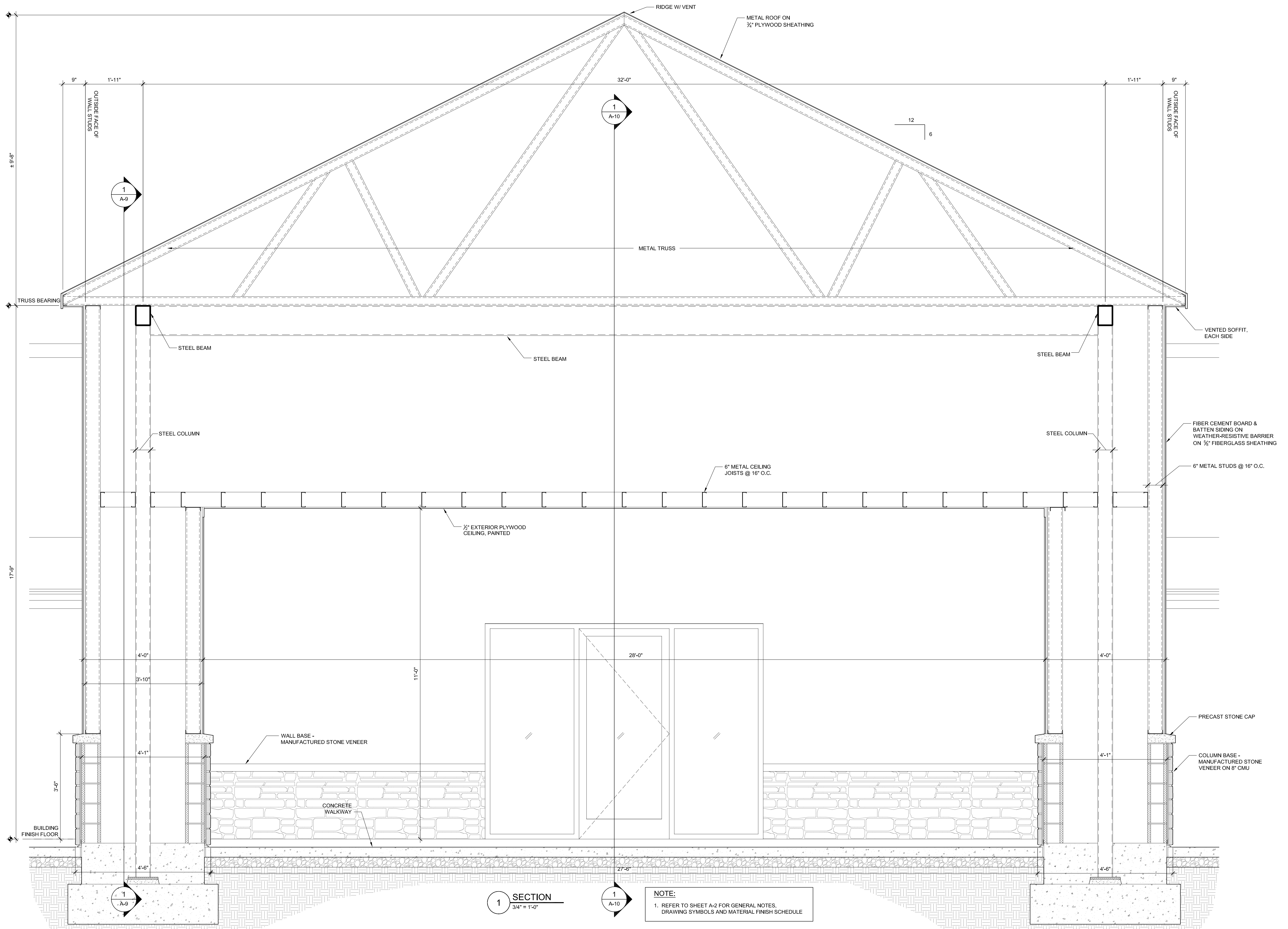
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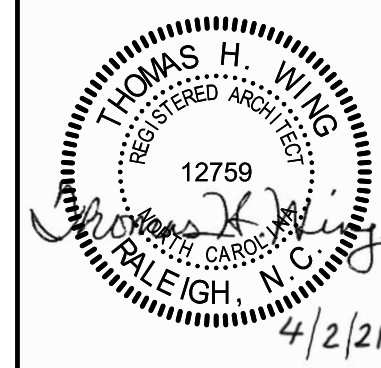
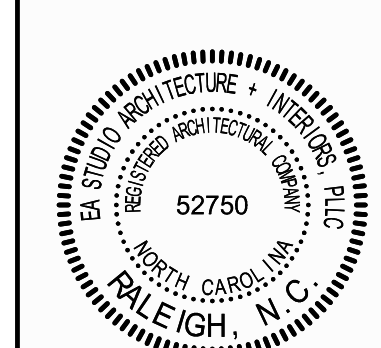
SHEET TITLE  
 SECTION

SHEET  
**A-10**



**SECTION**  
3/4" = 1'-0"

**NOTE:**  
1. REFER TO SHEET A-2 FOR GENERAL NOTES, DRAWING SYMBOLS AND MATERIAL FINISH SCHEDULE



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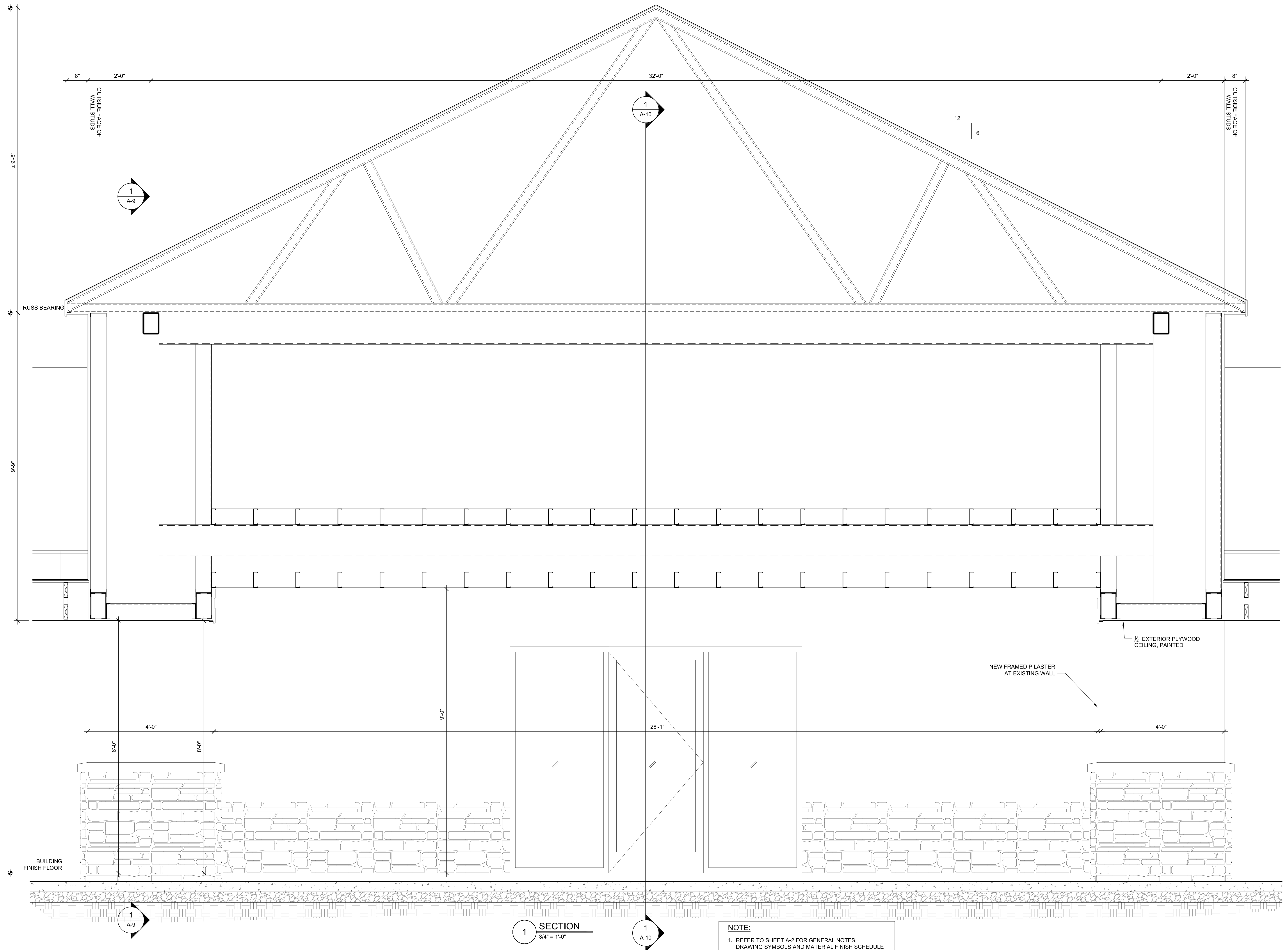
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DATE  
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SHEET TITLE

SECTION

SHEET  
**A-11**



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

NOTE:  
1. REFER TO SHEET A-2 FOR GENERAL NOTES,  
DRAWING SYMBOLS AND MATERIAL FINISH SCHEDULE

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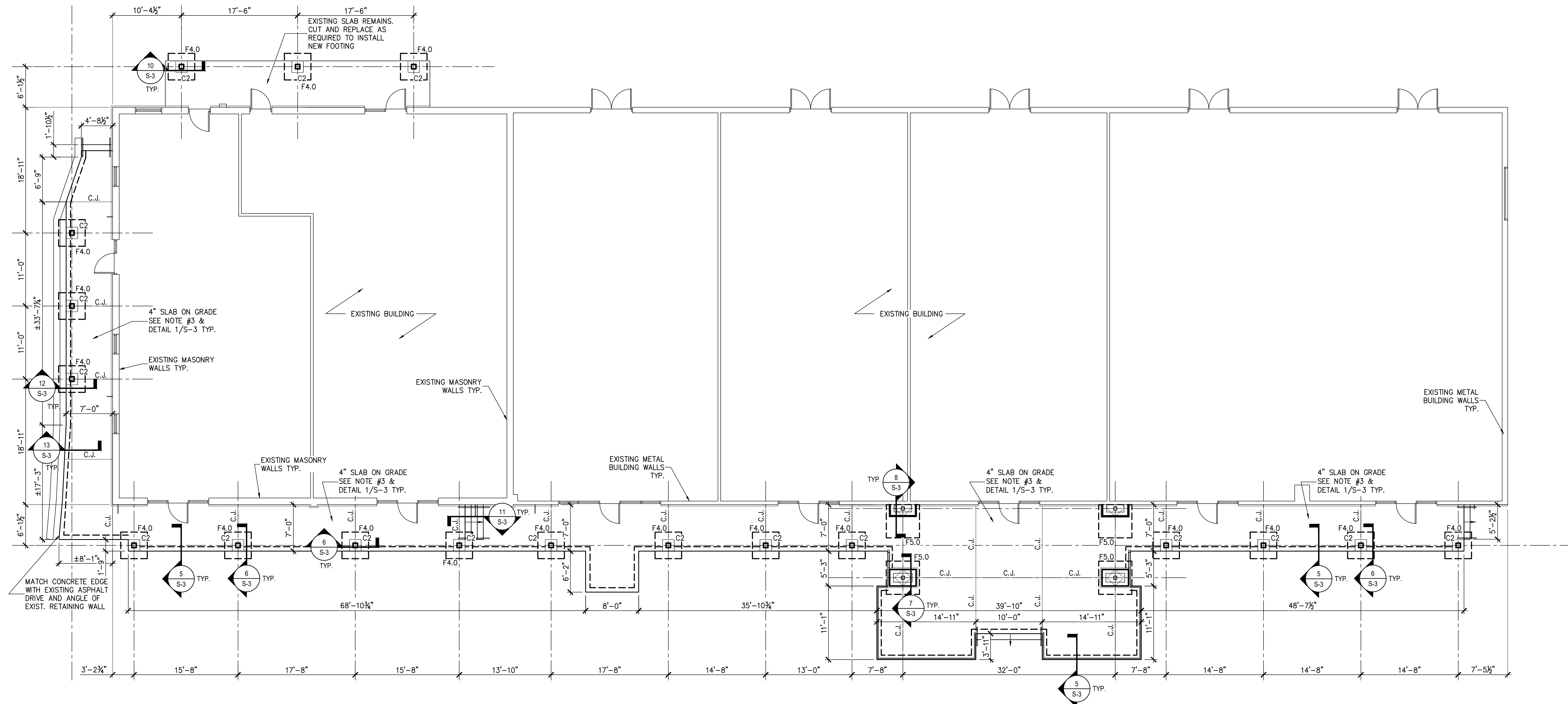
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SHEET TITLE

SECTION

SHEET  
**A-12**



**PARTIAL FOUNDATION PLAN**  
 1/8" = 1'-0"

- FOUNDATION PLAN NOTES:**
- SEE SHEET S-5 FOR DESIGN CRITERIA, GENERAL STRUCTURAL NOTES & SCHEDULES.
  - TOP OF SLAB REFERENCE ELEVATION = 0'-0" UNLESS OTHERWISE NOTED. MATCH EXISTING SLAB ELEVATION = 0'-0". SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ACTUAL SITE ELEVATIONS.
  - CONCRETE FLOOR SLAB IS 4" THICK WITH 6 x 6 - W 2.1 x W 2.1 WELDED WIRE FABRIC. PROVIDE 10 MIL VAPOR BARRIER AND 4" COMPACTED GRANULAR BASE UNDER SLAB. PROVIDE 1/4" SLOPE PER FOOT AWAY FROM BUILDING TYP. U.N.O. SEE 1/S-3 FOR MORE DETAIL. THE TOP OF ALL EXTERIOR COLUMN FOOTINGS SHALL BE AT ELEVATION -1'-4" UNLESS OTHERWISE NOTED ON THE PLAN.
  - SEE 4/S-3 FOR SLAB CORNER REINFORCEMENT DETAIL. FOR FOOTING, BASE PLATE AND ANCHOR BOLT DETAIL, SEE SHEET S-3

**FOUNDATION PLAN LEGEND**

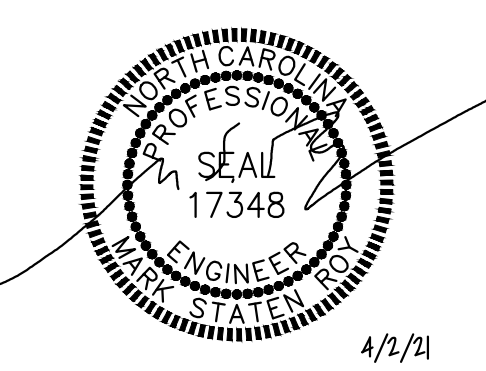
F4.0	NOTES COLUMN CONCRETE SPREAD FOOTING WITH FOOTING MARK - SEE FOOTING SCHEDULE FOR SIZE AND REINFORCING
C3	NOTES STEEL COLUMN WITH COLUMN MARK AND ISOLATION JOINT - SEE COLUMN SCHEDULE ON THIS SHEET FOR COLUMN SIZE, BASE PLATE SIZE AND QUANTITY, AND SIZE OF ANCHOR BOLTS. SEE DETAIL 7 & 8/S-3 FOR ADDITIONAL INFORMATION
C.J.	NOTES SLAB ON GRADE CONSTRUCTION OR SAWCUT CONTROL JOINT - SEE DETAILS 3/S-3 AND 2/S-3 FOR ADDITIONAL INFORMATION
U.O.N.	NOTES 'UNLESS OTHERWISE NOTED'

**FOOTING SCHEDULE**

MARK	FTG. SIZE	REINFORCEMENT	REMARKS
F3.0	3'-0" x 3'-0" x 1'-0"	(4) #5 EA. WAY, BOT.	-
F4.0	4'-0" x 4'-0" x 1'-0"	(5) #5 EA. WAY, BOT.	-
F5.0	5'-0" x 5'-0" x 1'-0"	(6) #5 EA. WAY, BOT.	-

**COLUMN SCHEDULE**

MARK	COL. SIZE	BASE PL. SIZE	ANCH. BOLT DIA.	REMARKS
C1	HSS 6 x 6 x 3/8	3/4" x 12" x 1'-0"	3/4"	4 BOLTS
C2	8x8 WOOD POST	'CB88' SIMPSON	PER MFR'S SPEC	POST ROUGH CUT CEDAR



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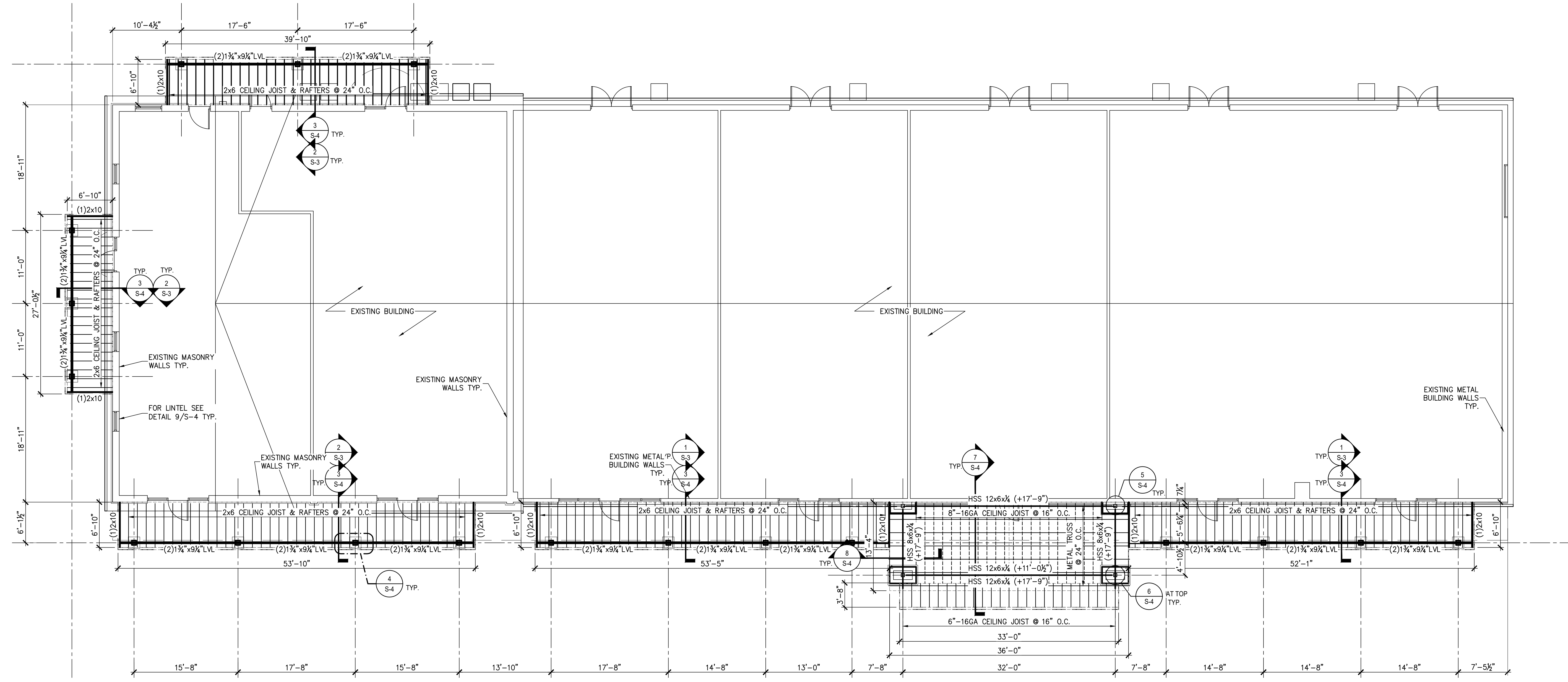
DATE  
 04/02/2021

SHEET TITLE

FOUNDATION PLAN & PLAN NOTES

SHEET

**S-1**

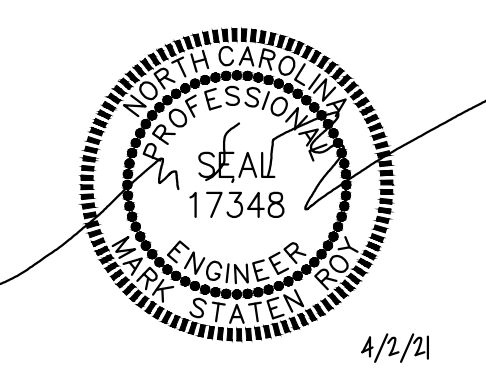


**PARTIAL ROOF FRAMING PLAN**  
 1/8" = 1'-0"

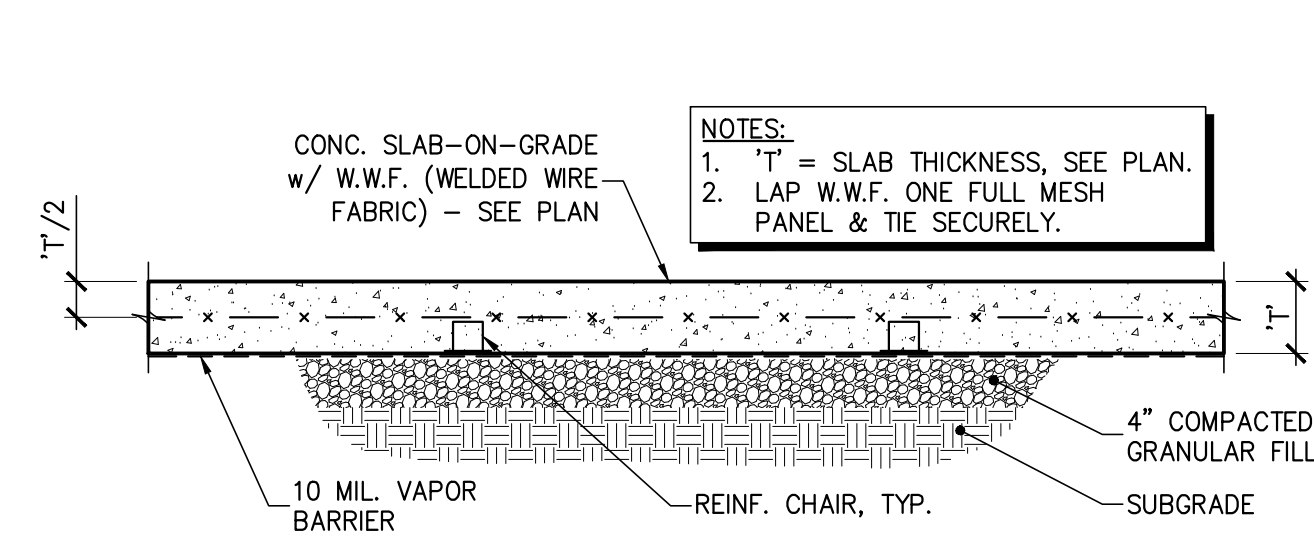
- ROOF FRAMING PLAN NOTES:**
- SEE SHEET S-5 FOR DESIGN CRITERIA, GENERAL STRUCTURAL NOTES AND SCHEDULES.
  - ALL BUILDING DIMENSIONS ARE FROM FACE TO FACE OF STUD WALLS, U.N.O.
  - VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
  - SEE DETAIL 9/S-4 FOR LINTEL DETAIL IN EXISTING WALL. USE AS NEEDED.

**ROOF FRAMING PLAN LEGEND**

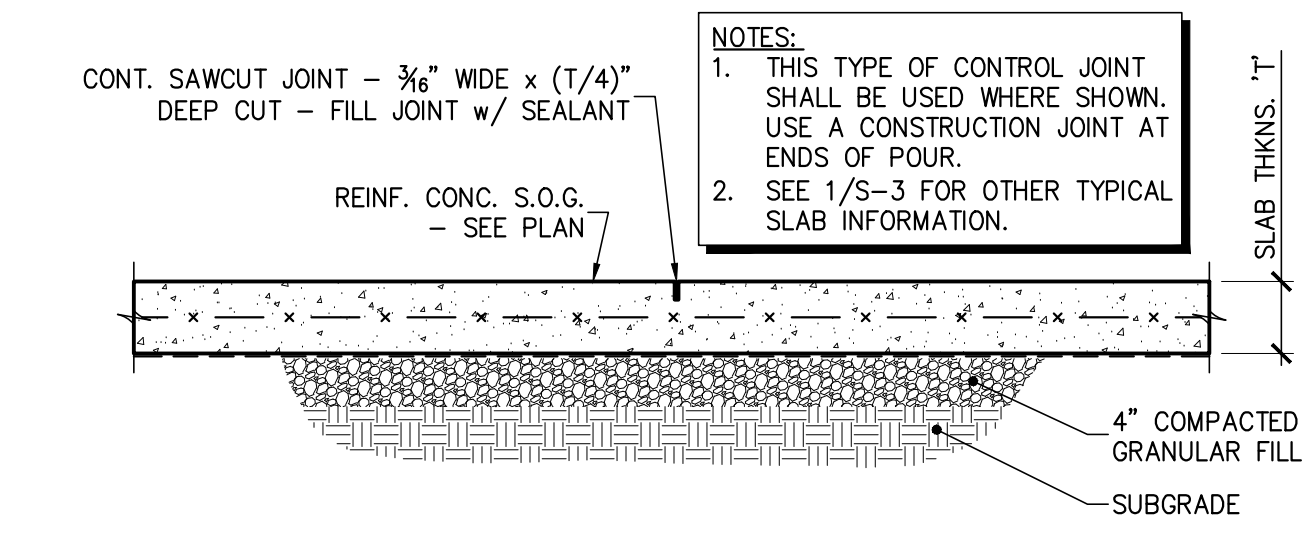
+XX'-X"	JOIST / RAFTERS BEARING ELEVATION SEE PLAN
U.N.O.	DENOTES 'UNLESS NOTED OTHERWISE'



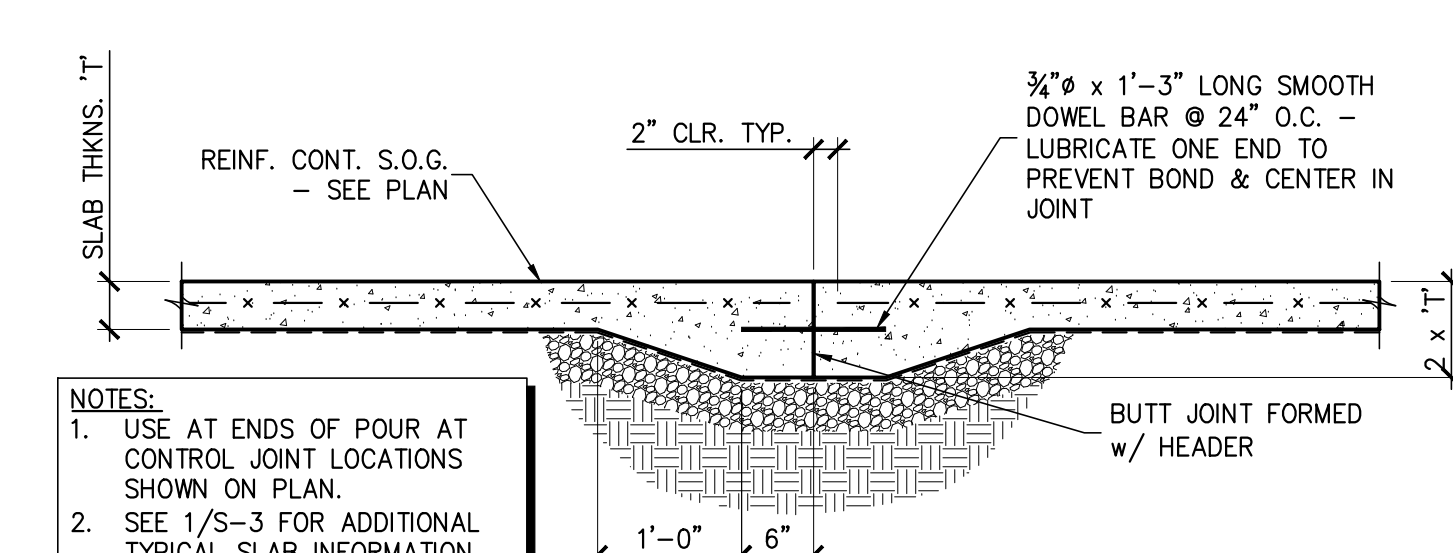
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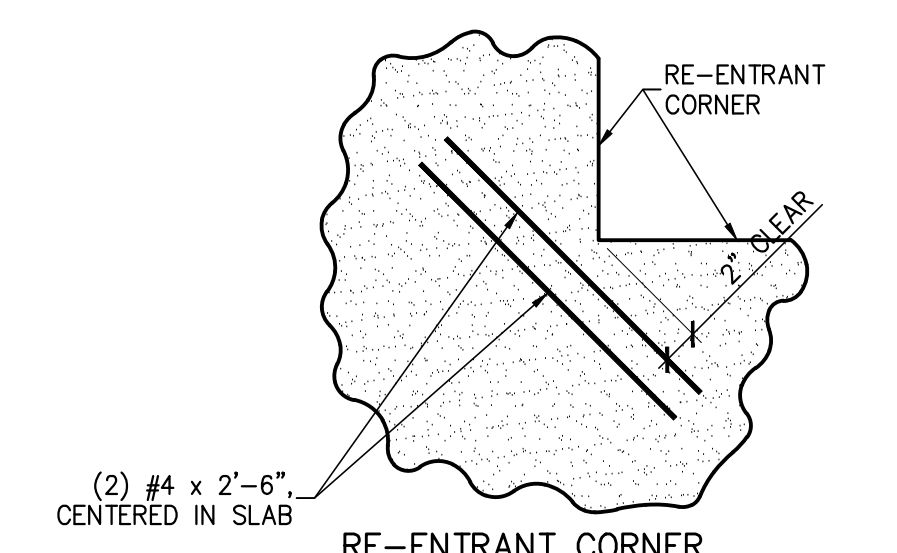
**1 SECTION - TYP. SLAB ON GRADE**  
 S-3 3/4" = 1'-0"



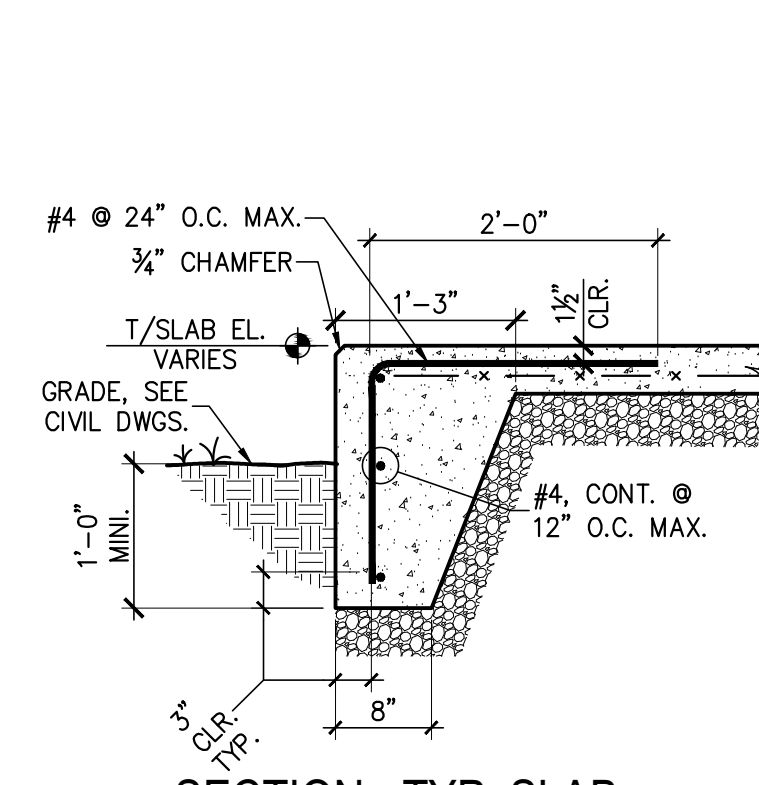
**2 SECTION - TYP. CONTROL JOINT**  
 S-3 3/4" = 1'-0"



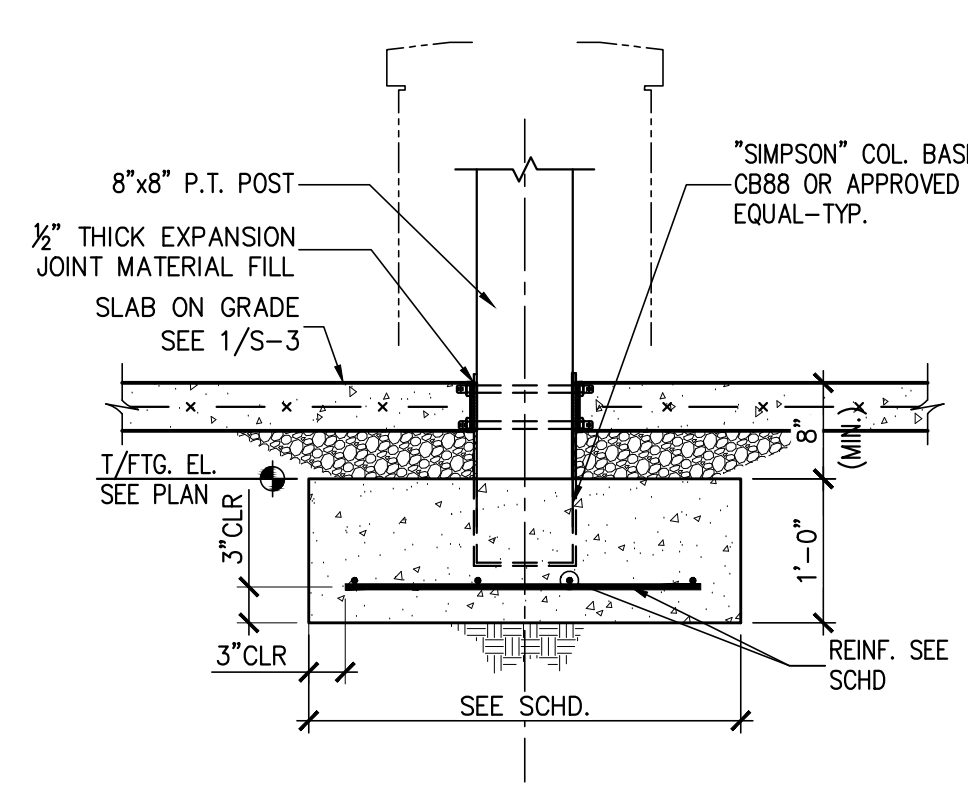
**3 SECTION - TYP. CONSTRUCTION JOINT**  
 S-3 3/4" = 1'-0"



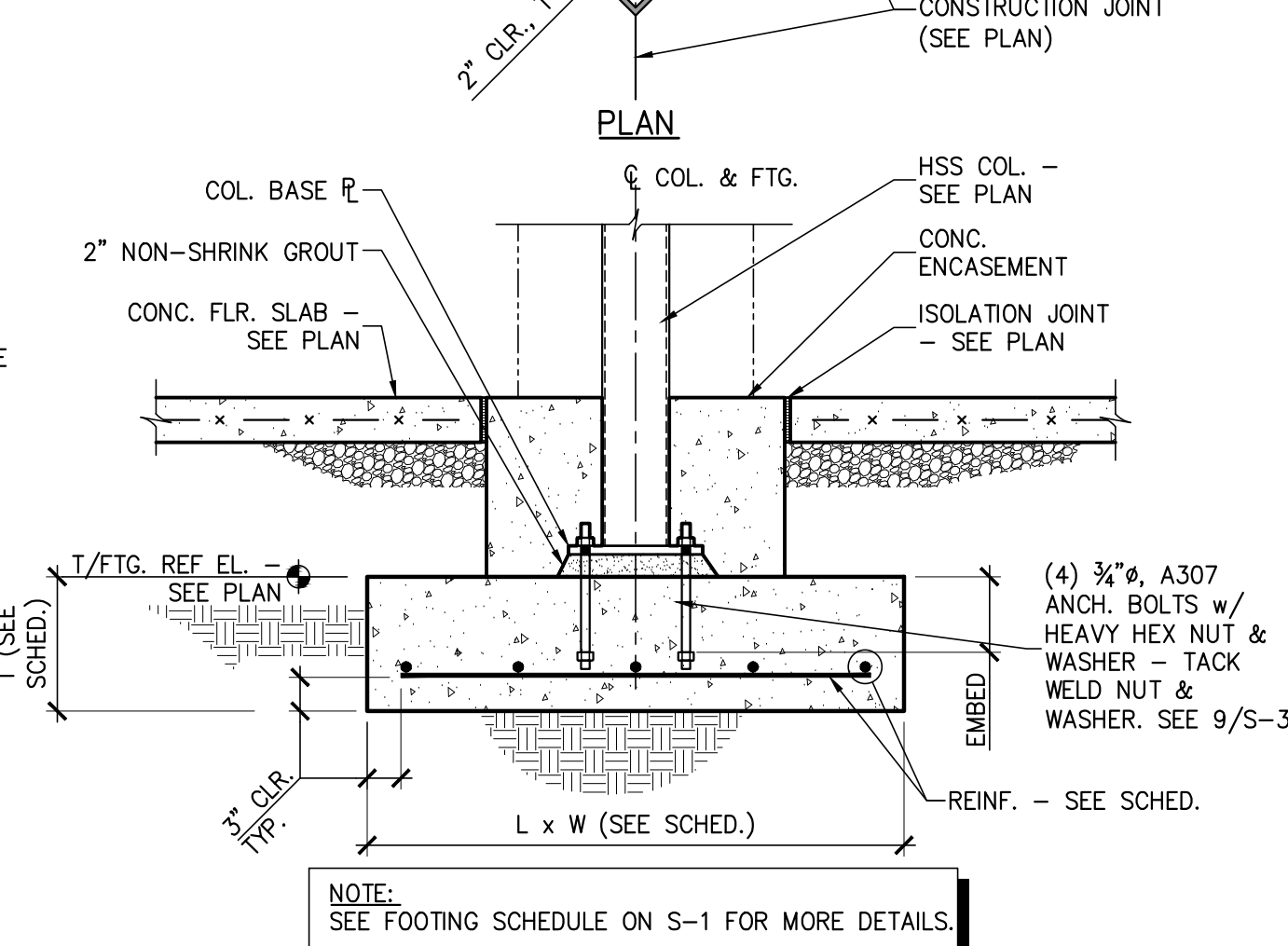
**4 DETAIL - TYP. REINF. @ SLAB CORNERS**  
 S-3 3/4" = 1'-0"



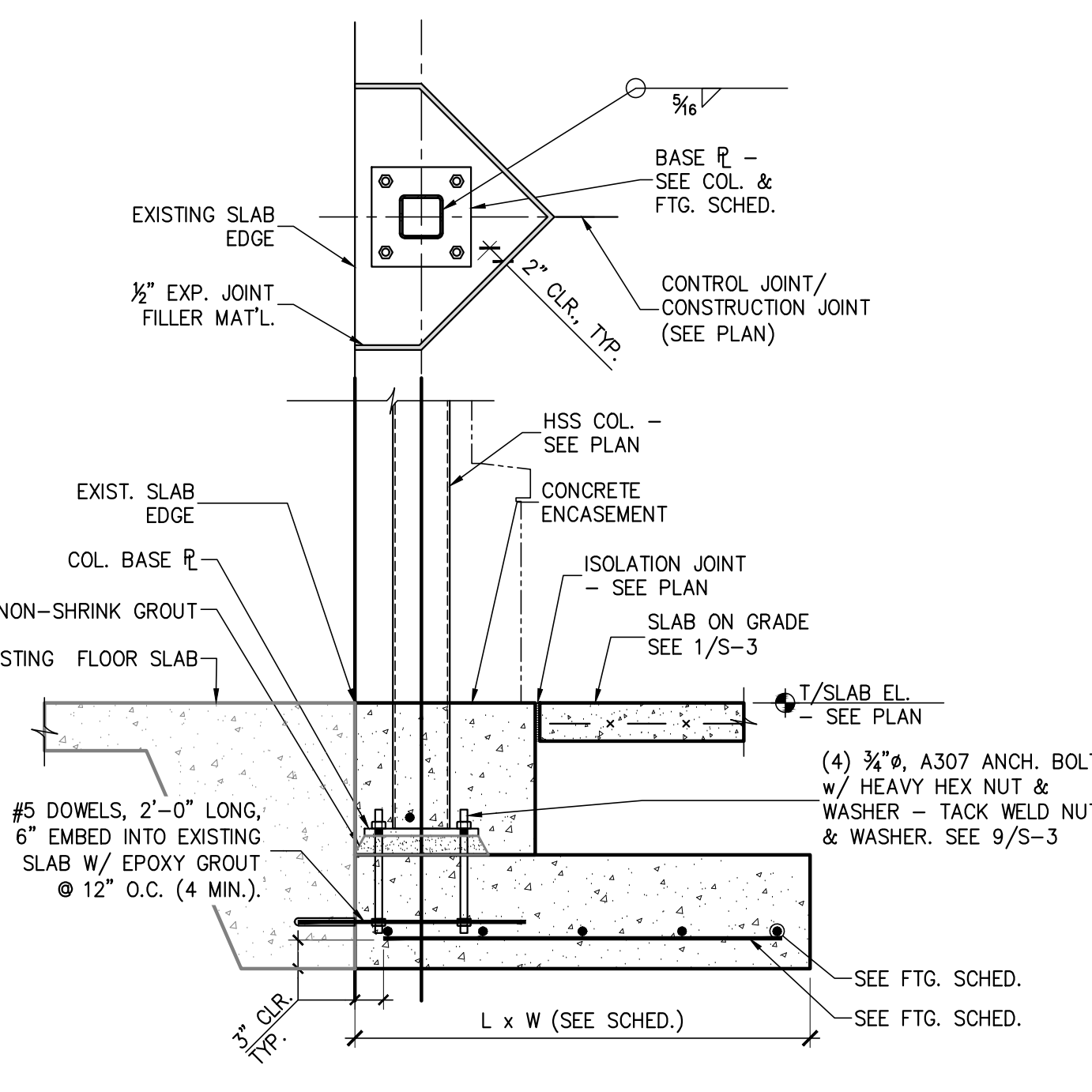
**5 SECTION - TYP. SLAB EDGE W/ TURN-DOWN**  
 S-3 3/4" = 1'-0"



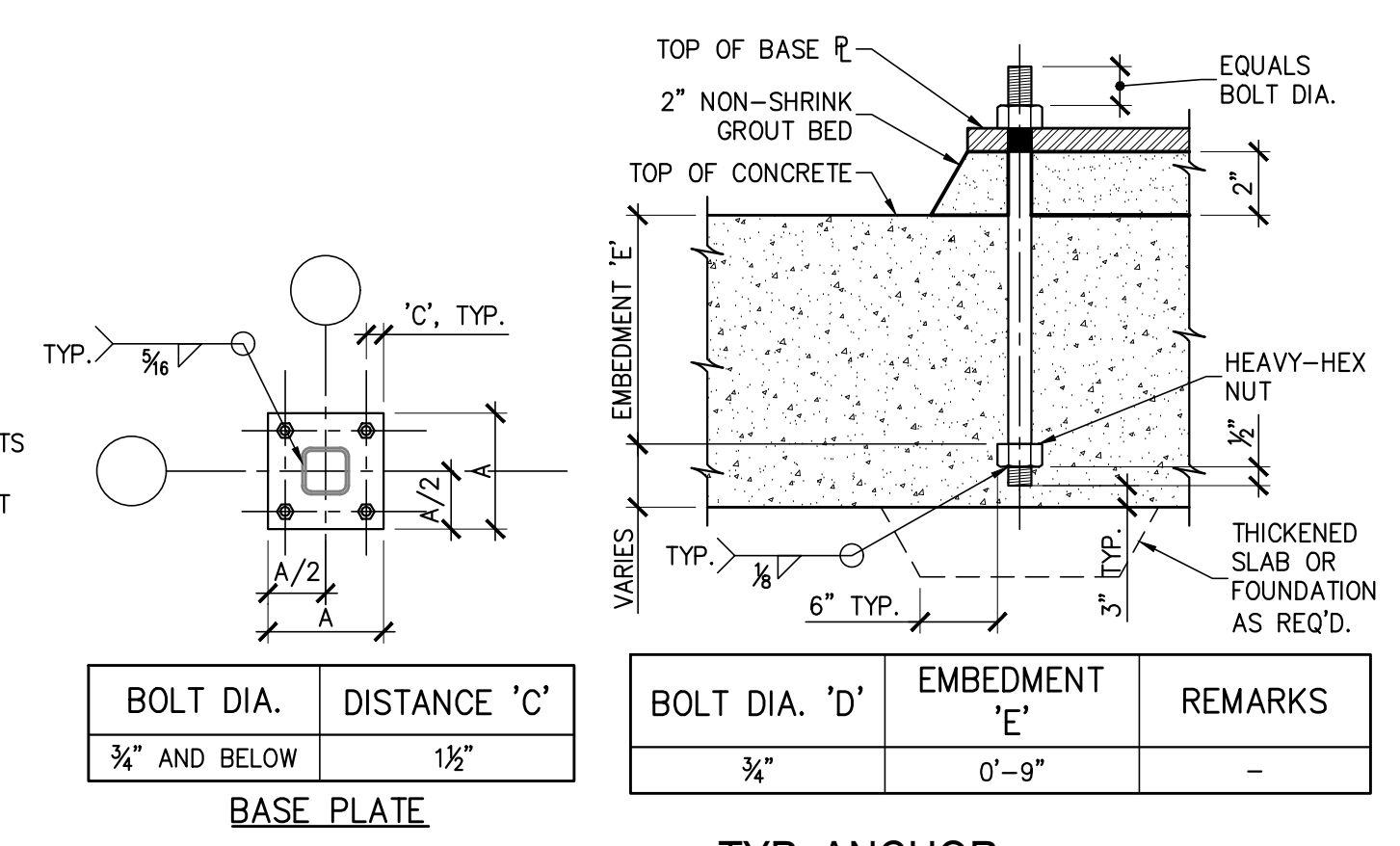
**6 WOOD COLUMN FOOTING - SECTION**  
 S-3 3/4" = 1'-0"



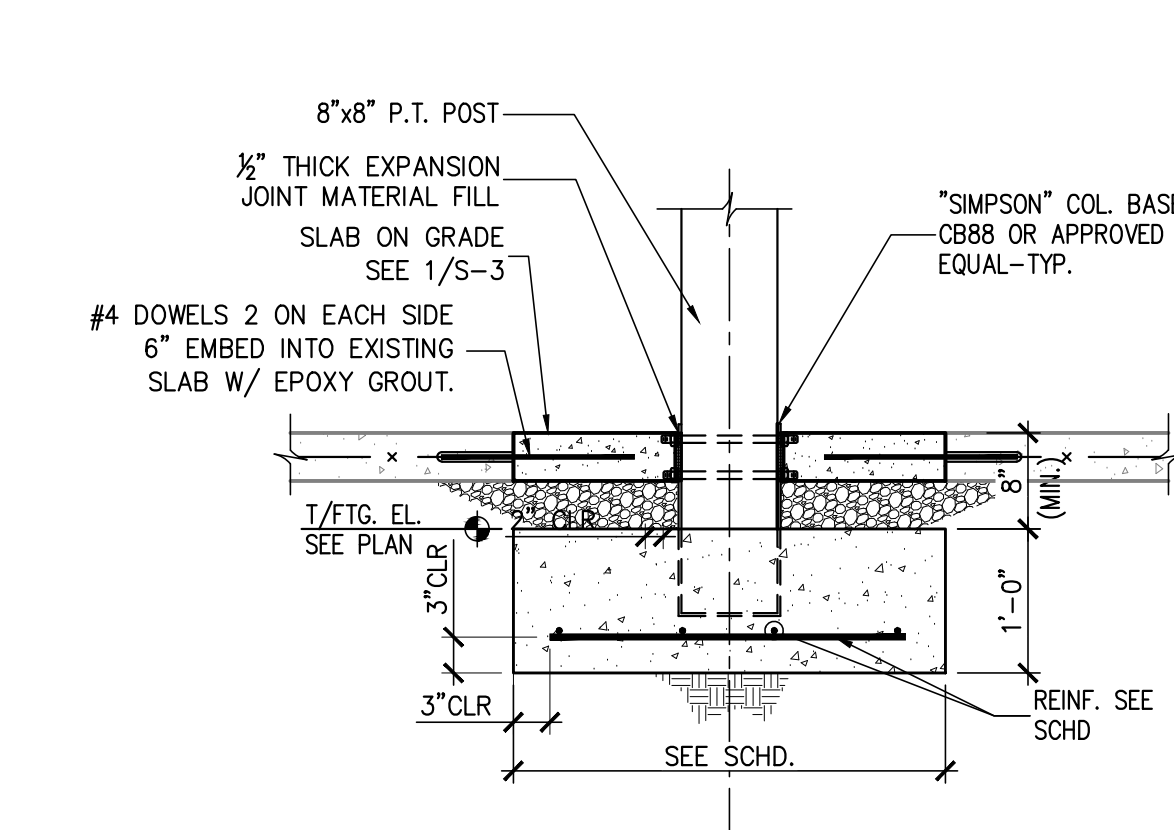
**7 SECTION - TYP. INTERIOR HSS COL. FTG.**  
 S-3 3/4" = 1'-0"



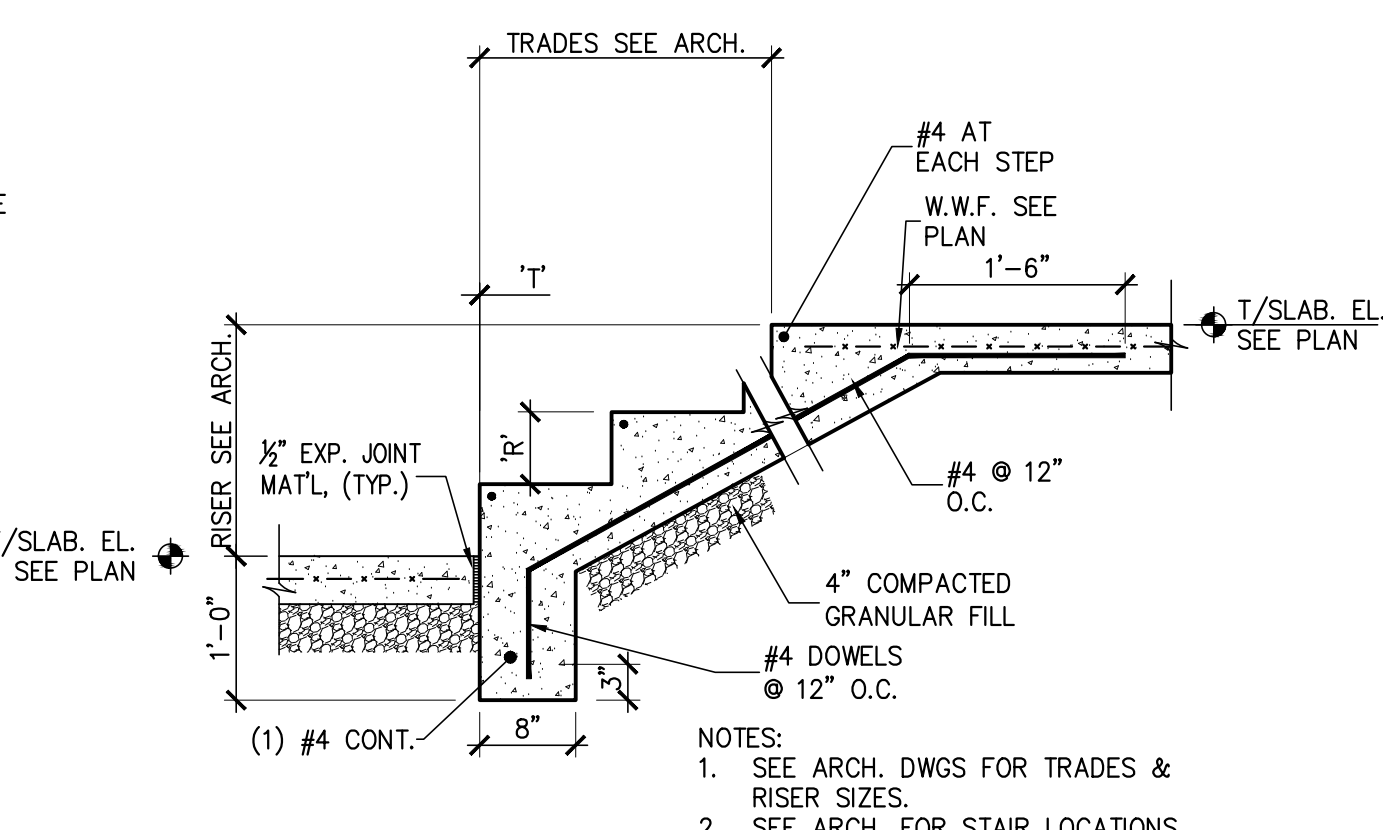
**8 SECTION - TYP. EXTERIOR HSS COL. FTG.**  
 S-3 3/4" = 1'-0"



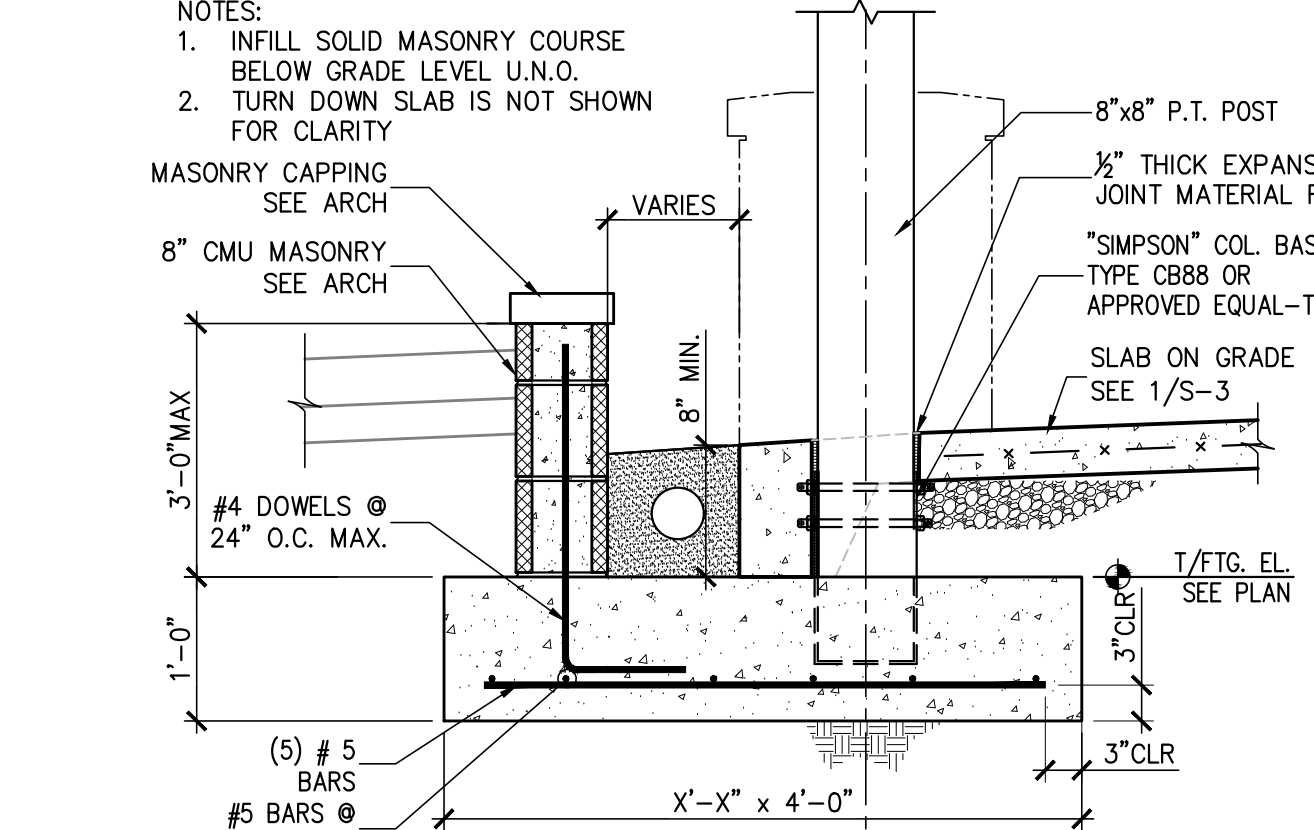
**9 TYP. ANCHOR BOLT & BASE PLATE DETAIL**  
 S-3 3/4" = 1'-0"



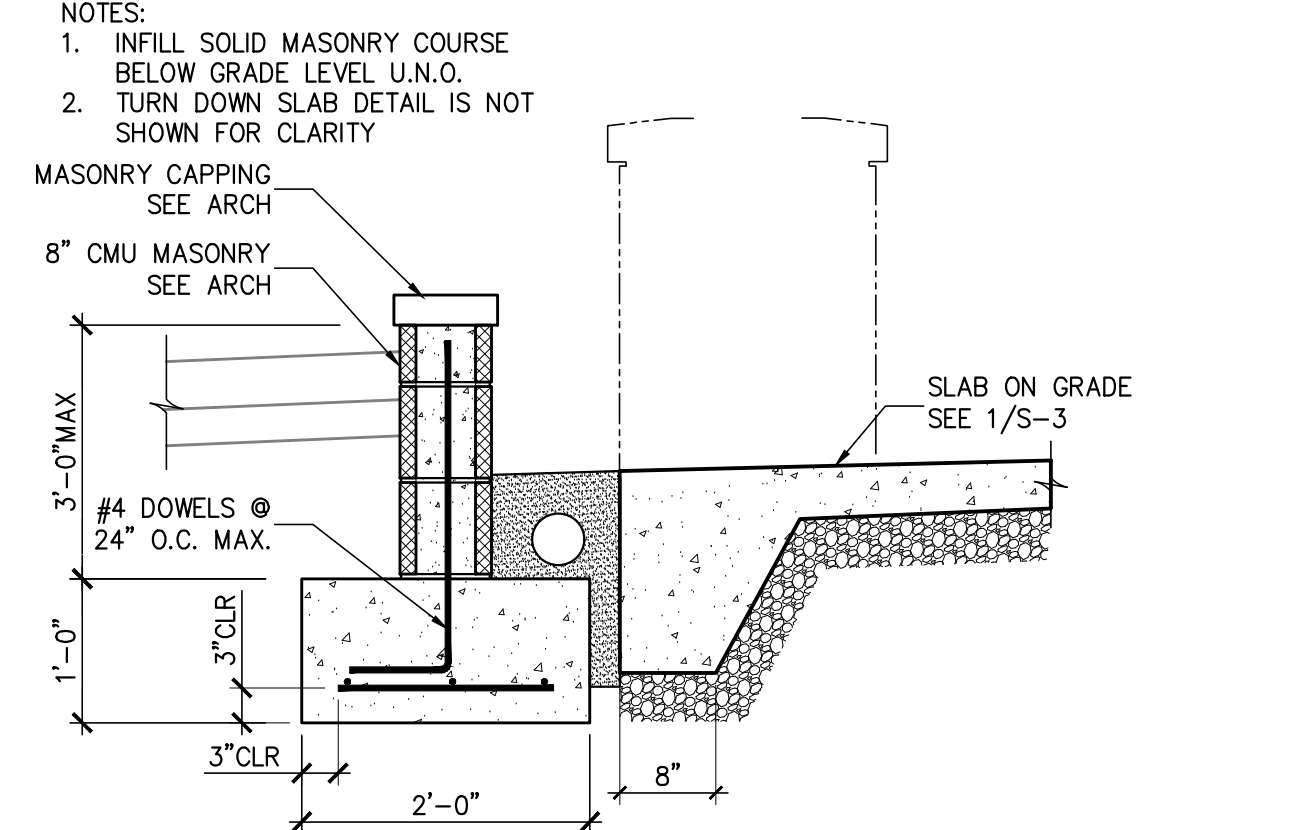
**10 WOOD COLUMN FOOTING - SECTION**  
 S-3 3/4" = 1'-0"



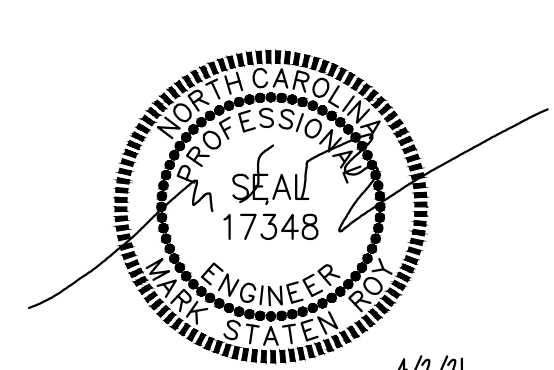
**11 SECTION @ EXTERIOR STAIRS**  
 S-3 3/4" = 1'-0"



**12 RETAINING WALL AT WOOD COLUMN**  
 S-3 3/4" = 1'-0"



**13 RETAINING WALL AT TURN DOWN SLAB**  
 S-3 3/4" = 1'-0"



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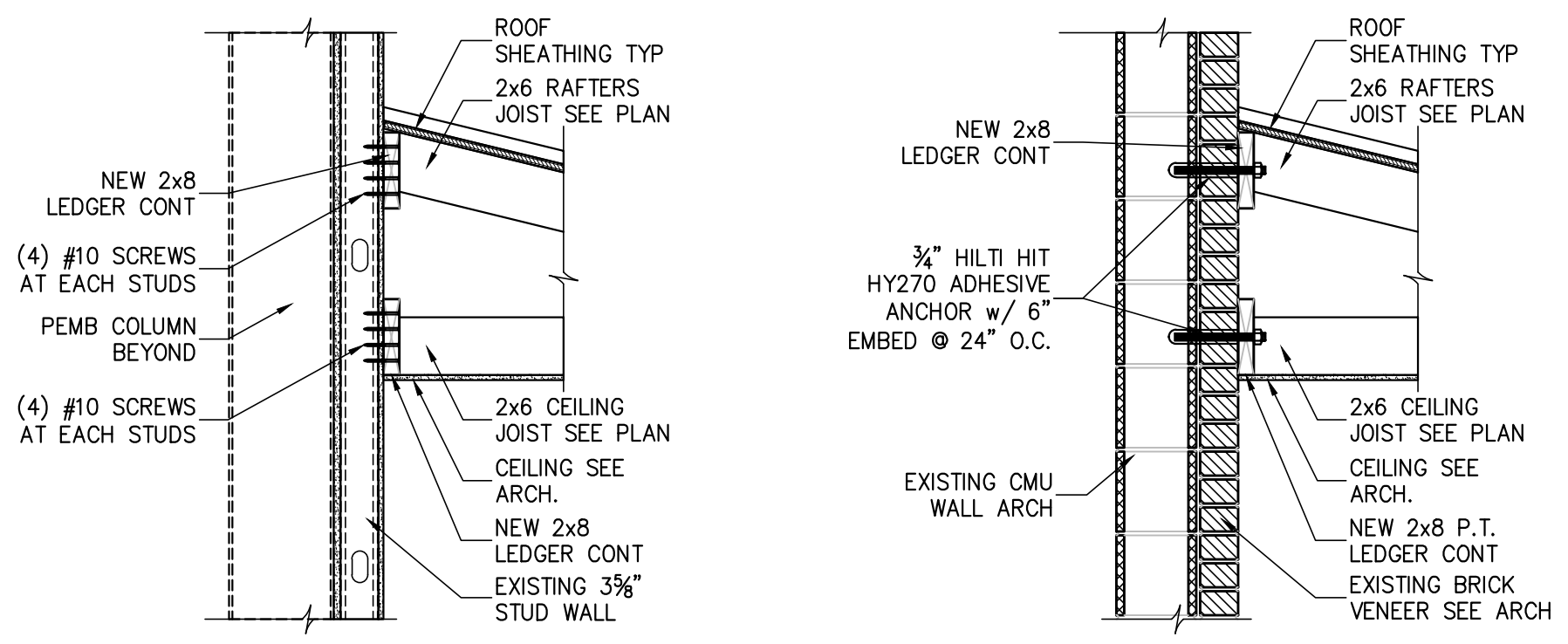
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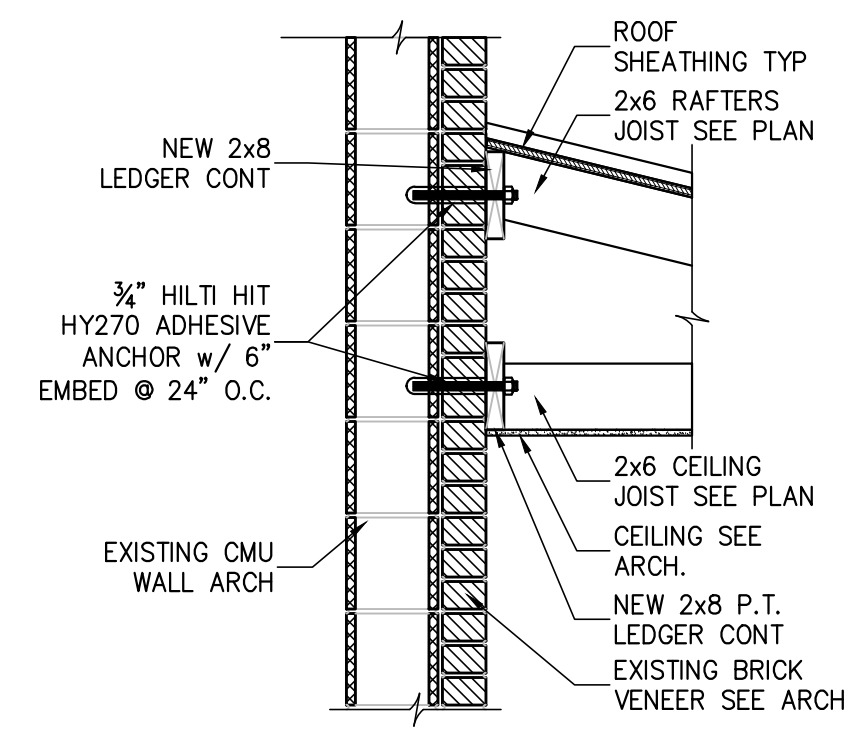
FOUNDATION  
 DETAILS &  
 SECTIONS

SHEET

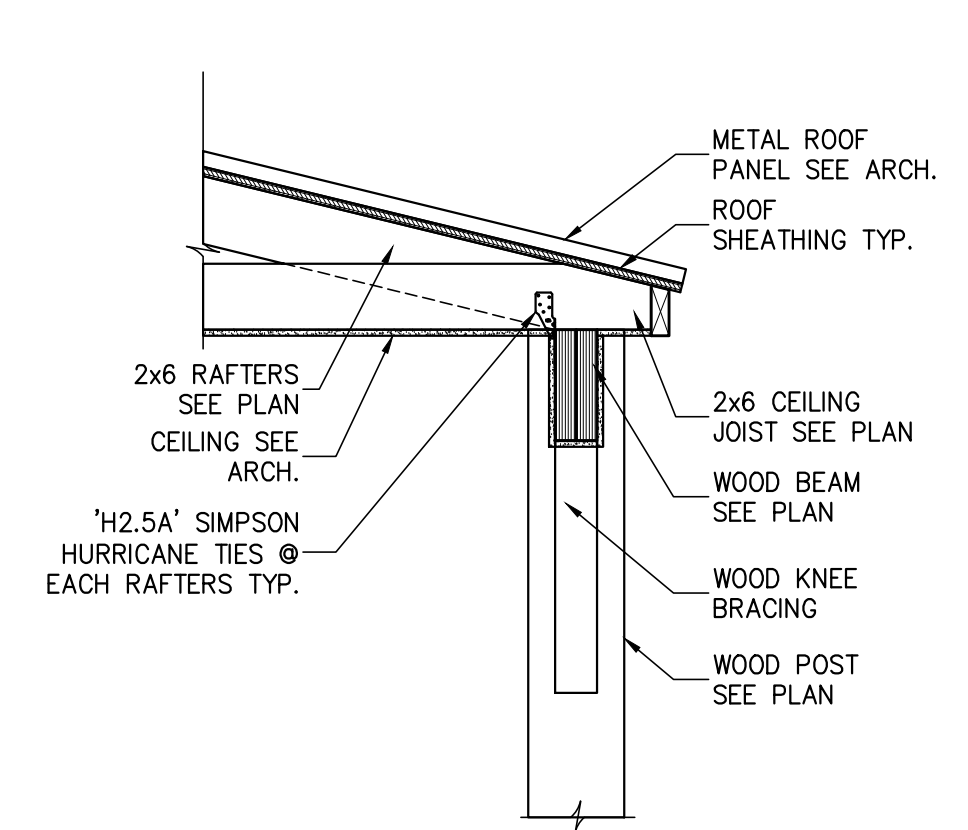
**S-3**



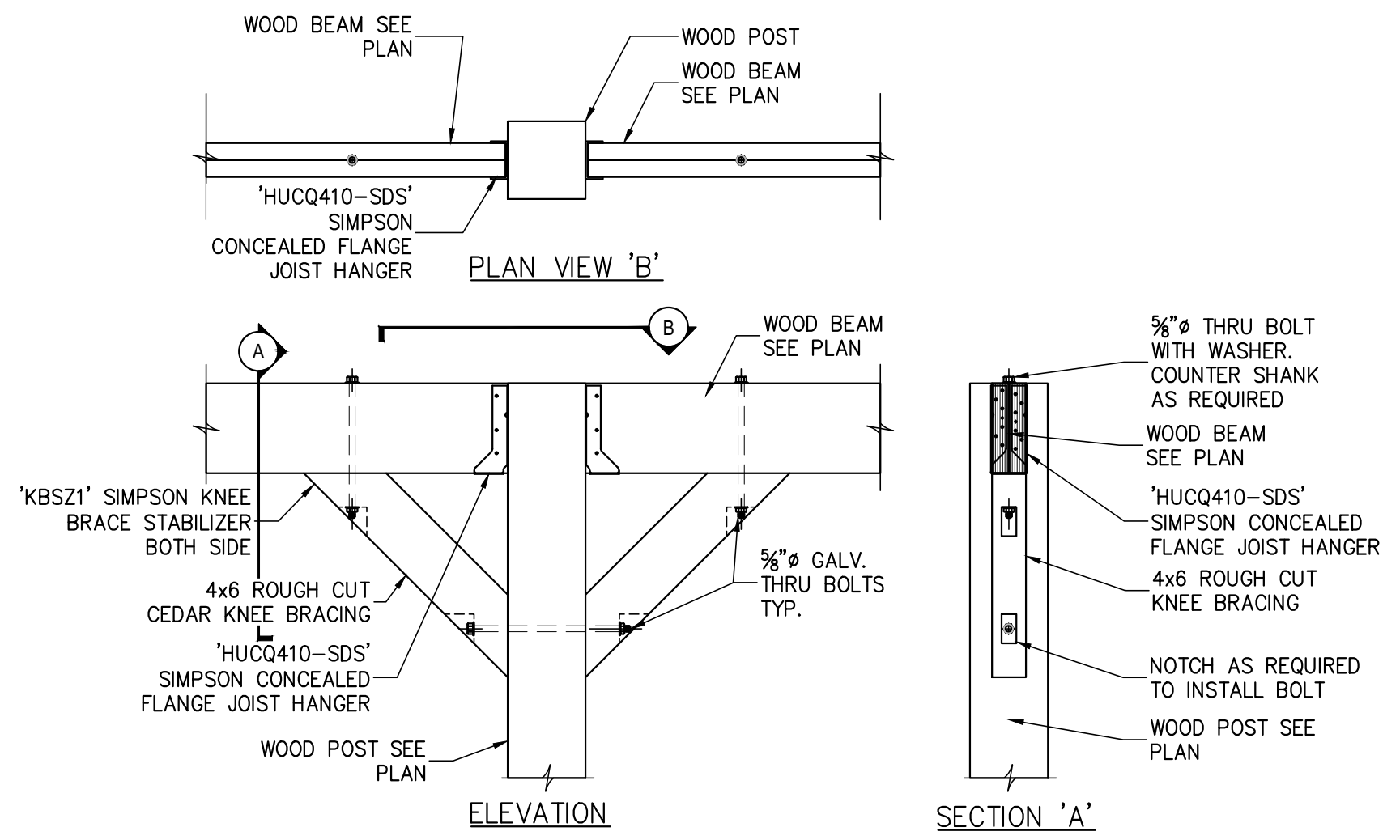
1 ROOF CONN. AT EXIST. WALL  
 S-4 3/4" = 1'-0"



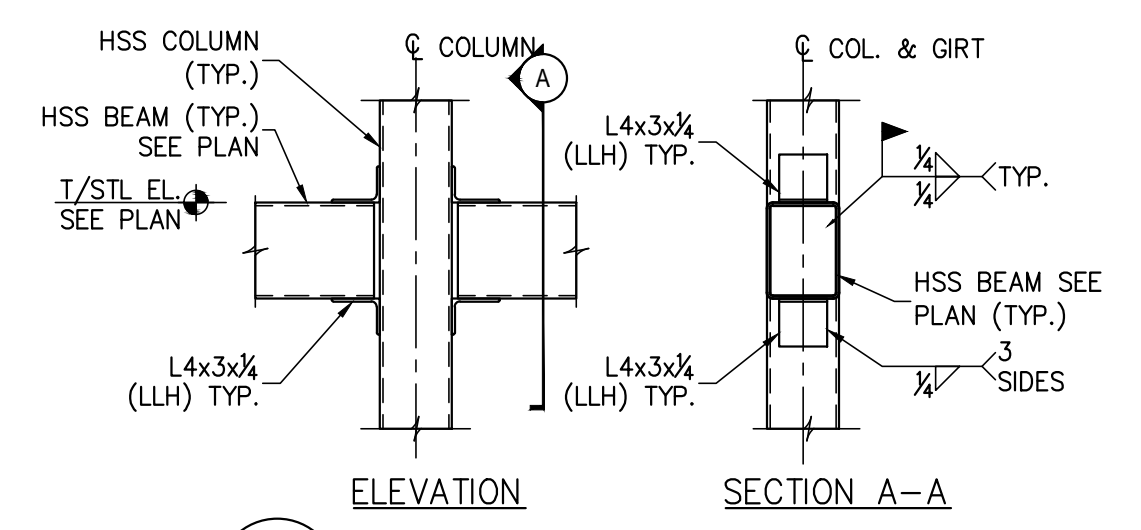
2 ROOF CONN. AT EXIST. WALL  
 S-4 3/4" = 1'-0"



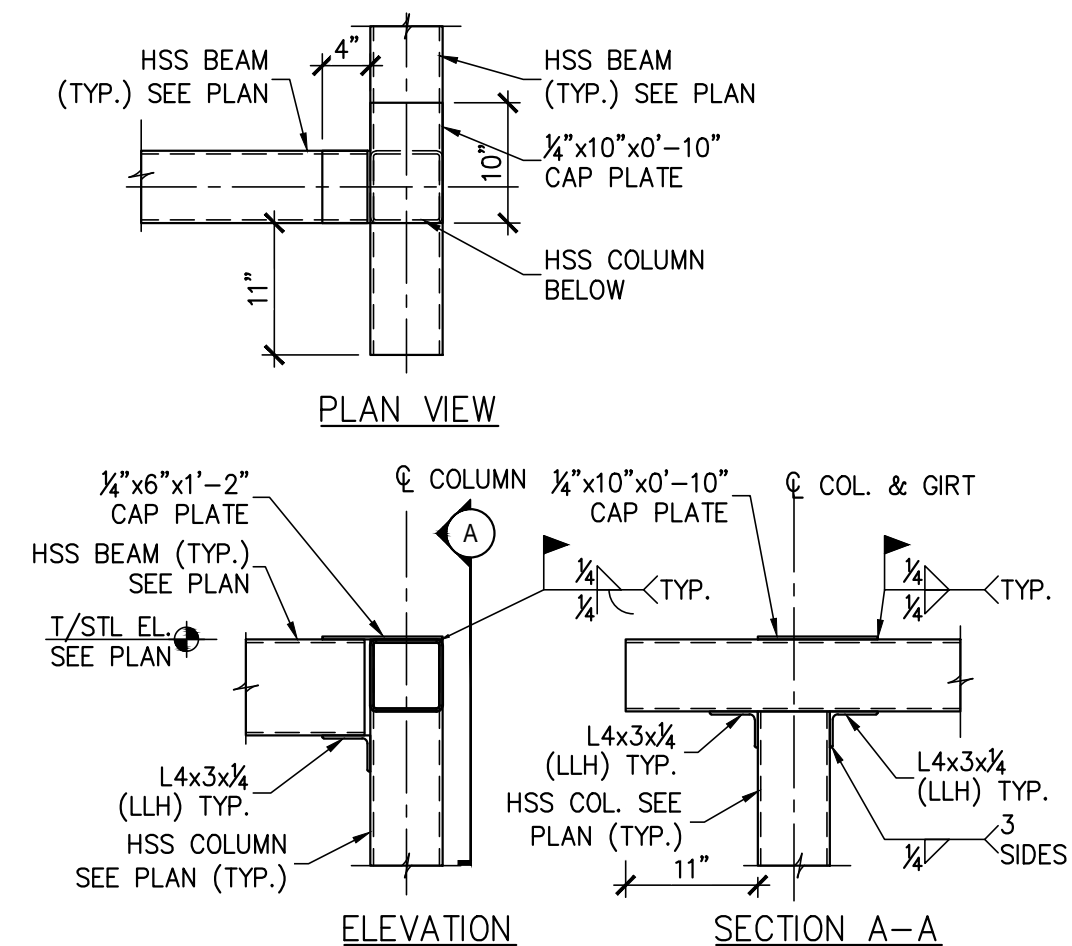
3 ROOF CONN. AT WOOD POST  
 S-4 3/4" = 1'-0"



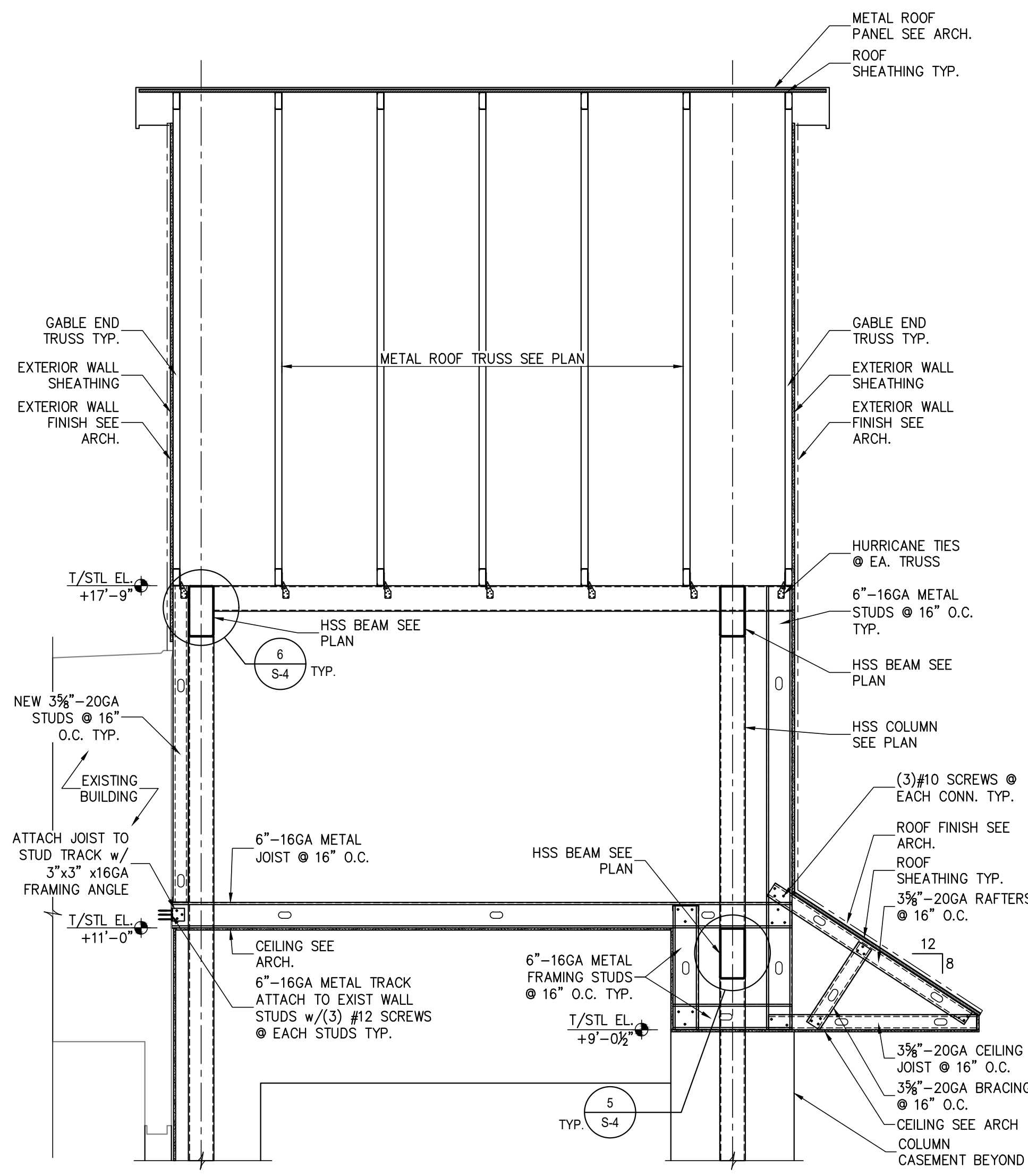
4 BRACE DETAIL AT WOOD POST  
 S-4 3/4" = 1'-0"



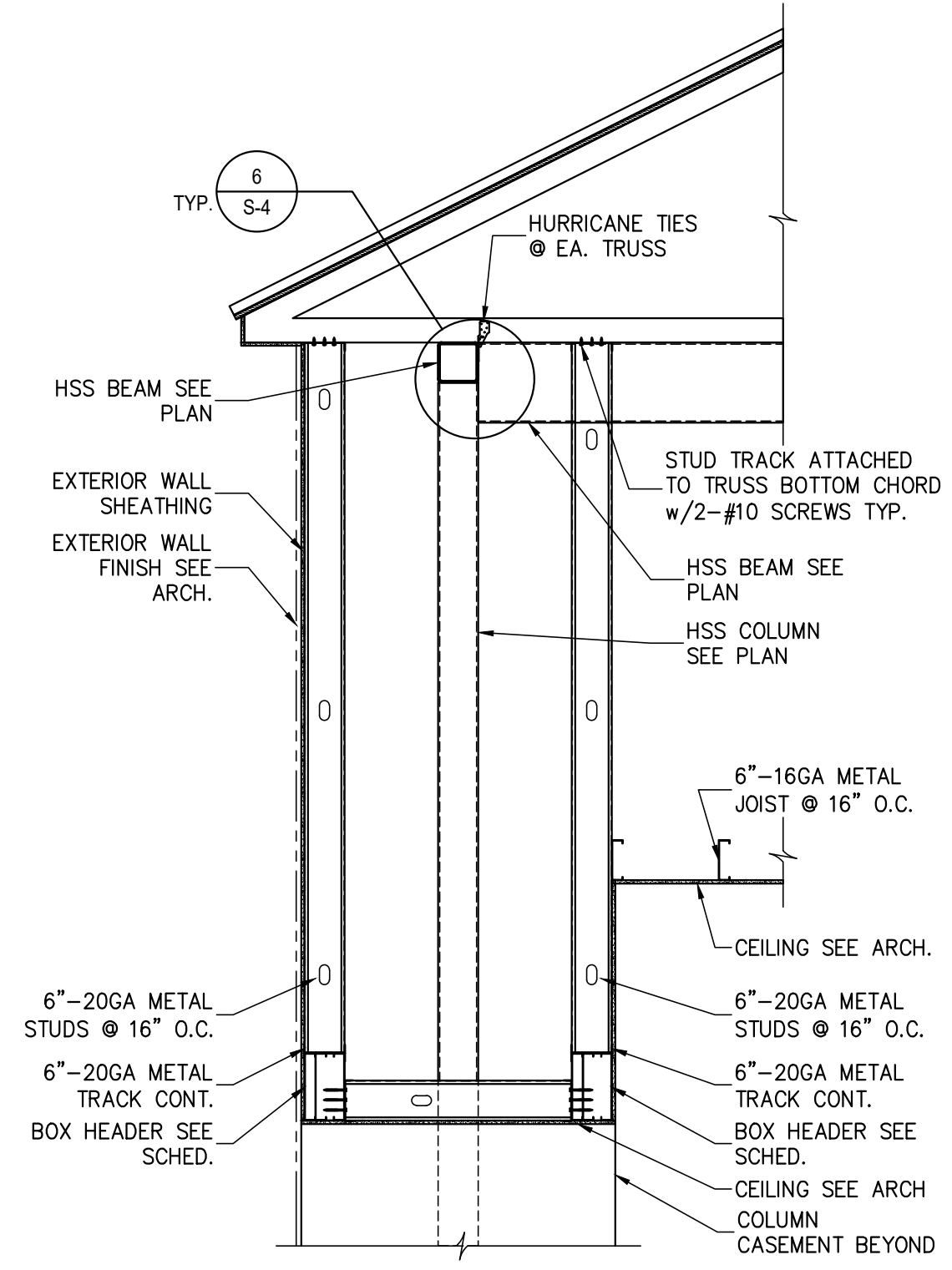
5 HSS GIRTS TO HSS COLUMN CONN.  
 S-4 3/4" = 1'-0"



6 HSS GIRTS TO HSS COLUMN CONN.  
 S-4 3/4" = 1'-0"

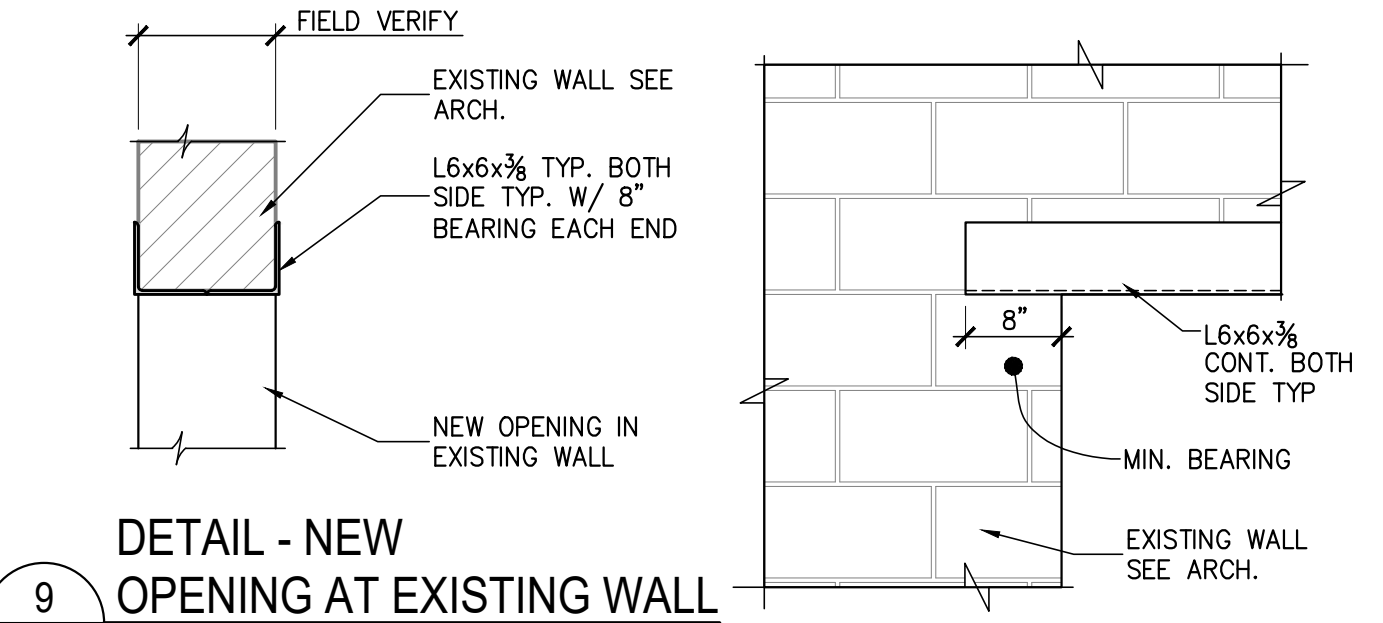


7 SECTION  
 S-4 3/4" = 1'-0"

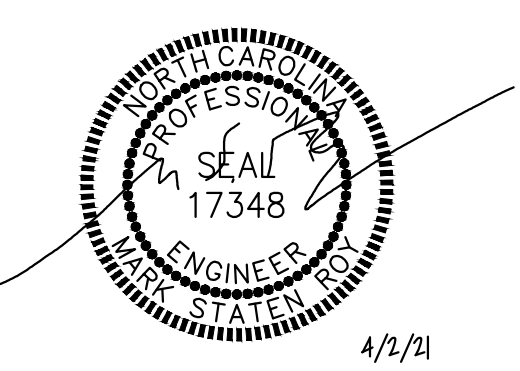


8 SECTION  
 S-4 3/4" = 1'-0"

- NOTE:  
 1. DETAIL USED FOR 12" THICK WALL & SPAN UP TO 4'-0" U.N.O.  
 2. SAWCUT THE EXISTING MASONRY WALL AS REQUIRED TO INSTALL NEW UNTEL ANGLE BEFORE REMOVING THE EXISTING MASONRY.  
 3. SEE MECHANICAL PLAN FOR DUCT OPENING LOCATIONS.



9 DETAIL - NEW  
 OPENING AT EXISTING WALL  
 S-4 3/4" = 1'-0"



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**GENERAL STRUCTURAL NOTES:**

- 1. GENERAL NOTES**
- METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
  - THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, ELECTRICAL, AND CIVIL DRAWINGS FOR SLEEVES, CURBS, INSERTS OR OPENINGS NOT HEREIN INDICATED.
  - COORDINATE THESE DRAWINGS WITH THE ARCHITECTURAL, ELECTRICAL, AND CIVIL DRAWINGS.
  - VERIFY ALL FLOOR AND ROOF OPENING SIZES AND LOCATIONS, EQUIPMENT PAD SIZES AND LOCATIONS, ANCHOR BOLT LAYOUTS, ETC., WITH EQUIPMENT SELECTED.
  - VERIFY BUILDING LOCATION AND ORIENTATION WITH OWNER AND LOT SETBACK REQUIREMENTS BEFORE ANY CONSTRUCTION IS STARTED ON THE PROJECT.
  - CONTRACTOR SHALL VERIFY ALL EXISTING CONSTRUCTION DIMENSIONS WHICH IMPACT NEW CONSTRUCTION PRIOR TO FABRICATING ANY REBAR, STEEL, TRUSSES, ETCETERA.
  - DO NOT CUT, NOTCH, OR OTHERWISE MODIFY ANY STRUCTURAL MEMBERS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS WITHOUT APPROVAL OF THE ENGINEER OF RECORD.
  - CUTTING OF STEEL MEMBERS AND INSTALLATION OF HOLES IN STEEL MEMBERS SHALL BE DONE BY CUTTING OR DRILLING. DO NOT USE TORCHES FOR CUTTING UNLESS APPROVED BY THE ENGINEER OF RECORD.
  - CONTRACTOR IS RESPONSIBLE FOR DESIGN AND INSTALLATION OF ALL SHORING REQUIRED TO SUPPORT NEW AND EXISTING STRUCTURAL ELEMENTS.
- 2. FOUNDATION**
- ALL FOOTINGS SHALL BE ON UNDISTURBED SOIL OR 98% COMPACTED FILL PER ASTM D698.
  - NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST, ICE OR LOOSE MATERIAL.
  - EXCAVATIONS FOR FOOTINGS SHALL HAVE THE SIDES AND BOTTOMS TEMPORARILY LINED WITH 6 MIL. POLYETHYLENE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HRS OF THE EXCAVATION OF THE FOOTING.
  - ADVERSE FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION SUCH AS SOFT SOILS, ORGANIC MATTER, ETC., SHALL BE REPORTED TO THE ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.
  - IF UNDERMINING OF FOOTINGS OCCURS, FILL VOIDS WITH LEAN CONCRETE MIX. DO NOT ATTEMPT TO REPLACE AND RECOMPACT SOIL.
- 3. CONCRETE**
- ALL PLACED CONCRETE, SHALL HAVE NORMAL WEIGHT COARSE AGGREGATES, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH ( $f_c$ ) OF 3,000 PSI AT 28 DAYS.
  - GROUT FOR BASE PLATES SHALL BE NON-METALLIC, NON-SHRINKABLE GROUT, AND SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH, AT 28 DAYS, OF 5000 PSI.
  - NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
  - CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH  $\frac{3}{4}$ " x 45 DEGREE CHAMFER, UNLESS OTHERWISE NOTED.
  - HORIZONTAL FOOTING AND HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS, AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED, WITH A CLASS B TENSION SPLICE, AT CORNERS AND INTERSECTIONS. TOP BAR CRITERIA SHALL APPLY IF 12" OR MORE OF FRESH CONCRETE IS PLACED BELOW BAR.
  - SEE ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING / DAMPPROOFING DETAILS.
  - SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF FLOOR FINISHES.
  - ALL REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60.
  - WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
  - DETAIL AND FABRICATE REINFORCING STEEL IN ACCORDANCE WITH THE ACI DETAILING MANUAL.
  - AT CORNERS AND INTERSECTIONS, PROVIDE BARS OF THE SAME NUMBER AND SIZE AS THE LONGITUDINAL BARS IN THE FOOTING.
- 4. COLD-FORMED STEEL FRAMED TRUSSES**
- PROVIDE WHERE SHOWN. COMPLY WITH APPLICABLE REQUIREMENTS OF AISI STANDARD FOR COLD-FORMED STEEL FRAMING - TRUSS DESIGN, LATEST EDITION, AND AISI STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS, LATEST EDITION.
  - STORE, HANDLE AND ERECT TRUSSES IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
  - TIE DOWN ANCHORS: CONNECT TRUSS TO SUPPORTING STRUCTURE AS PER MANUFACTURER'S RECOMMENDATION AT EACH END OF EACH ROOF TRUSS, UNLESS OTHERWISE NOTED.
  - TRUSS HANGERS: AT EACH TRUSS END THAT DOES NOT HAVE A STANDARD BEARING CONNECTION, PROVIDE AN ENGINEERED CONNECTION THAT IS CAPABLE OF SUPPORTING THE REQUIRED REACTION.
  - COORDINATE TRUSS PROFILES AND OVERHANG DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
  - THE CONTRACTOR SHALL SUBMIT TRUSS SHOP AND LAYOUT DRAWINGS FOR APPROVAL, PRIOR TO THE FABRICATION OF THE TRUSSES. ALL TRUSS DRAWINGS SHALL BE SEALED BY A NORTH CAROLINA PROFESSIONAL ENGINEER.
  - ROOF TRUSS DESIGN LOADS:  
TOP CHORD:  
LIVE LOAD \_\_\_\_\_ 20 PSF  
DEAD LOAD \_\_\_\_\_ 10 PSF  
BOTTOM CHORD:  
LIVE LOAD \_\_\_\_\_ 0 PSF  
DEAD LOAD \_\_\_\_\_ 10 PSF
  - SEE 'STRUCTURAL DESIGN CRITERIA' FOR WIND AND SEISMIC REQUIREMENTS.
- 5. COLD FORMED METAL FRAMING**
- ALL STUDS, JOISTS AND ACCESSORIES SHALL BE AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY THE MANUFACTURER'S SPECIFICATIONS.
  - ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) 'SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS', LATEST EDITION.
  - ALL STRUCTURAL MEMBERS SHALL BE FORMED OF CORROSION RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENT OF ASTM-A446, WITH A MINIMUM YIELD STRENGTH OF 40 KSI.
  - ALL STRUCTURAL MEMBERS SHALL BE ZINC COATED AND CONFORM TO ASTM-A525.
  - INSTALL JACK AND KING STUDS AT ALL WINDOW AND DOOR OPENINGS IN EXTERIOR WALLS AND INTERIOR LOAD-BEARING WALLS PER THE BOX BEAM HEADER SCHEDULE.
  - ALL EXTERIOR STUD WALLS ARE LOAD BEARING UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION ON CONNECTIONS. ALL EXTERIOR WALL STUDS SHALL BE 6", 16 GA., SPACED AT 16" O.C., UNLESS OTHERWISE NOTED. STUD TRACK GAUGE SHALL MATCH THE STUD GAUGE SPECIFIED UNLESS OTHERWISE NOTED.
  - BOTTOM TRACK SHALL BE ATTACHED WITH 'HILTI X-U' POWDER ACTUATED FASTENERS (0.157" SHANK DIAMETER) WITH  $1\frac{3}{4}$ " EMBEDMENT AT 12" O.C.
  - ALL STUDS INSTALLED BELOW STEEL BEAMS OR OTHER LOAD BEARING STRUCTURAL MEMBERS SHALL BE ATTACHED WITH A CONTINUOUS DEFLECTION TRACK OR DEFLECTION CLIPS EQUIVALENT TO 'VERTITRACK' OR 'VERTICLIP' FROM 'THE STEEL NETWORK'.
- 6. WOOD FRAMING**
- ALL STRUCTURAL WOOD MEMBERS SHALL BE No. 2 SOUTHERN YELLOW PINE, 19% MAXIMUM MOISTURE CONTENT, UNLESS OTHERWISE NOTED. INTERIOR NON BEARING PARTITIONS MAY BE No. 2 SPRUCE (SPF).
  - ALL WOOD FRAMING, DIRECTLY EXPOSED TO WEATHER, OR IN DIRECT CONTACT WITH MASONRY, SOIL OR CONCRETE, SHALL BE PRESSURE TREATED, UNLESS OTHERWISE NOTED.
  - ALL LVL's, DIRECTLY EXPOSED TO WEATHER, OR IN DIRECT CONTACT WITH MASONRY, SOIL OR CONCRETE, SHALL BE EXTERIOR GRADE, UNLESS NOTED OTHERWISE.
  - ALL METAL CONNECTORS SHALL BE HOT DIP GALVANIZED. INSTALL ALL CONNECTORS PER THE MANUFACTURER'S RECOMMENDATIONS. METAL CONNECTOR DESIGNATIONS INDICATED ON PLANS, ARE FOR 'SIMPSON STRONG-TIE' ANCHORS. ANCHORS FROM OTHER MANUFACTURERS MAY BE USED, PROVIDED THEY HAVE EQUIVALENT STRENGTH.
  - ALL NAILED CONNECTIONS SHALL BE IN ACCORDANCE WITH NORTH CAROLINA STATE BUILDING CODE TABLE 2304.9.1 - FASTENING SCHEDULE, UNLESS OTHERWISE NOTED.
  - FRAMING CONNECTIONS THAT ARE BOLTED OR SCREWED, SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD.
  - PROVIDE STUDS AND HEADERS AT ALL EXTERIOR WALLS AND INTERIOR BEARING WALLS AS FOLLOWS, UNLESS OTHERWISE NOTED:  

OPENING WIDTH	STUDS	HEADER
0'-0" TO 6'-0"	2 KING STUDS, 1 JACK STUD	(2) 2 x 10 @ 2 x 4 WALL (3) 2 x 10 @ 2 x 6 WALL
6'-1" TO 8'-0"	2 KING STUDS, 2 JACK STUDS	(2) 2 x 10 @ 2 x 4 WALL (3) 2 x 10 @ 2 x 6 WALL
8'-1" TO 12'-0"	3 KING STUDS, 2 JACK STUDS	(2) 2 x 12 @ 2 x 4 WALL (3) 2 x 12 @ 2 x 6 WALL
- 7. WOOD DECKING/SHEATHING**
- WALL SHEATHING SHALL BE  $1\frac{1}{2}$ " PLYWOOD OR ORIENTED STRAND BOARD (OSB), UNLESS OTHERWISE NOTED. ATTACH WALL SHEATHING TO FRAMING WITH 10d NAILS @ 4" O.C. AT PANEL EDGES AND 12" O.C. AT INTERIOR MEMBERS. PROVIDE SOLID BLOCKING AT PANEL EDGES (48" O.C.).
  - ROOF SHEATHING SHALL BE  $\frac{3}{4}$ " PLYWOOD UNLESS OTHERWISE NOTED. ATTACH ROOF SHEATHING TO FRAMING WITH 8d NAILS @ 4" O.C. AT PANEL EDGES AND 12" O.C. AT INTERIOR MEMBERS. PROVIDE SOLID BLOCKING AT PANEL EDGES (48" O.C.).

**STRUCTURAL DESIGN CRITERIA:**

- 1. DESIGN LOADS:**
- ROOF DEAD LOAD \_\_\_\_\_ MAX \_\_\_\_\_ MIN (FOR UPLIFT) \_\_\_\_\_  
 ROOFING \_\_\_\_\_ 2 PSF \_\_\_\_\_ 2 PSF  
 SHEATHING \_\_\_\_\_ 2 PSF \_\_\_\_\_ 2 PSF  
 ROOF FRAMING \_\_\_\_\_ 4 PSF \_\_\_\_\_ 3 PSF  
 MISC \_\_\_\_\_ 10 PSF \_\_\_\_\_ 7 PSF
  - LIVE LOADS  
 ROOF LIVE LOAD - ALL AREAS GREATER OF 20 PSF MINIMUM OR SNOW LOAD  
 1ST FLOOR LIVE LOAD \_\_\_\_\_ 100 PSF  
 SNOW LOAD \_\_\_\_\_  
 GROUND SNOW LOAD = 15 PSF (ANGIER, NC)  
 SNOW LOAD IMPORTANCE FACTOR: I = 1.0  
 SNOW EXPOSURE FACTOR = 1.0  
 SNOW THERMAL FACTOR = 1.0  
 ROOF SNOW LOAD = 10 PSF  
 BASIC DESIGN ROOF SNOW LOAD = 10.0 PSF
  - WIND LOAD  
 BASIC WIND SPEED:  $V_{ult} = 116$  MPH (ANGIER, NC)  
 RISK CATEGORY: \_\_\_\_\_ I \_\_\_\_\_ X \_\_\_\_\_ II \_\_\_\_\_ III \_\_\_\_\_ IV  
 WIND EXPOSURE CATEGORY: 'B' (ASCE 7-10)  
 WIND BASE SHEAR (FOR MWFRS):  $V_x = N/A$ ,  $V_y = N/A$  (EXISTING BLDG.)  
 INTERNAL PRESSURE COEFFICIENT:  $\pm 0.55$
  - SEISMIC LOADS (N.C. STATE BLDG. CODE):  
 SEISMIC IMPORTANCE FACTOR: I = 1.0  
 RISK CATEGORY: \_\_\_\_\_ I \_\_\_\_\_ X \_\_\_\_\_ II \_\_\_\_\_ III \_\_\_\_\_ IV  
 COMPLIANCE WITH SECTION 1616.4 ONLY? \_\_\_\_\_ YES \_\_\_\_\_ X \_\_\_\_\_ NO  
 SEISMIC DESIGN CATEGORY: \_\_\_\_\_ A \_\_\_\_\_ B \_\_\_\_\_ X \_\_\_\_\_ C \_\_\_\_\_ D  
 MAPPED SPECTRAL RESPONSE ACCELERATION:  $S_s$  17.1 %  $S_1$  8.2 % g  
 SPECTRAL RESPONSE COEFFICIENTS:  $S_{ds}$  18.3 %  $S_{d1}$  13.2 %  
 SEISMIC RESPONSE COEFFICIENT:  $C_s$  0.036  
 RESPONSE MODIFICATION FACTOR, R 2.00 (MASONRY WALLS & BRACING COMBINATION.)  
 SITE CLASSIFICATION: \_\_\_\_\_ A \_\_\_\_\_ B \_\_\_\_\_ C \_\_\_\_\_ X \_\_\_\_\_ D \_\_\_\_\_ E \_\_\_\_\_ F  
 BASIC STRUCTURAL SYSTEM:  
 \_\_\_\_\_ X \_\_\_\_\_ BEARING WALL \_\_\_\_\_ DUAL w/ SPECIAL MOMENT FRAME  
 \_\_\_\_\_ BUILDING FRAME \_\_\_\_\_ DUAL w/ INTERMEDIATE R/C OR SPECIAL STEEL  
 \_\_\_\_\_ MOMENT FRAME \_\_\_\_\_ INVERTED PENDULUM  
 SEISMIC BASE SHEAR  $V_x = N/A$   $V_y = N/A$  (EXISTING BLDG.)  
 ANALYSIS PROCEDURE: \_\_\_\_\_ SIMPLIFIED \_\_\_\_\_ X \_\_\_\_\_ EQUIVALENT LATERAL FORCE \_\_\_\_\_ MODAL  
 ARCHITECTURAL, MECHANICAL COMPONENTS ANCHORED? \_\_\_\_\_ YES \_\_\_\_\_ X \_\_\_\_\_ NO  
 LATERAL DESIGN CONTROL: \_\_\_\_\_ EARTHQUAKE \_\_\_\_\_ X \_\_\_\_\_ WIND
- ALL DESIGN LOADS ARE PER NORTH CAROLINA STATE BUILDING CODE 2018 EDITION.  
 WIND LOADS CONTROL THE LATERAL LOAD DESIGN. THE BUILDING UTILIZES SHEAR WALLS FOR LATERAL LOAD RESISTANCE.
- 2. FOUNDATION DESIGN CRITERIA:**
- MINIMUM FOOTING BEARING DEPTH BELOW GRADE IS 12 INCHES.
  - FOUNDATION DESIGN IS BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF 1,500 PSF.
  - CONTRACTOR SHALL FIELD VERIFY THE SOIL BEARING CAPACITY PRIOR TO START OF CONSTRUCTION.

CONCRETE REBAR SPLICE SCHEDULE			
BAR SIZE	LAP LENGTH (in.)		
	$f_c = 3000$ psi	$f_c = 4000$ psi	$f_c = 5000$ psi
#4	22	19	17
#5	28	24	21
#6	32	29	26

- NOTES:**
- CONCRETE IS NORMAL WEIGHT CONCRETE. IF LIGHTWEIGHT CONCRETE IS USED, MULTIPLY LENGTHS IN TABLE BY 1.3.
  - BAR YIELD STRENGTH ( $f_y$ ) IS 60 KSI.
  - BAR SPACING AND COVER REQUIREMENTS OF ACI SECTION 25.4.2.2 ARE ASSUMED TO BE MET. IF NOT, MULTIPLY LENGTHS IN TABLE BY 1.5.
  - REDUCTION OF EXCESS REINFORCEMENT NOT TAKEN.
  - IF MORE THAN 12" OF FRESH CONCRETE IS CAST IN MEMBER BELOW HORIZONTAL SPLICE, MULTIPLY LENGTHS IN TABLE BY 1.3.

EXPOSED CONCRETE FINISH SCHEDULE		
AREA	FINISH	COMMENTS
ALL CURBS, UNLESS OTHERWISE NOTED	SMOOTH FORM	
EXTERIOR CONCRETE PAVEMENT, SIDEWALKS	COARSE BROOM	
SLAB ON GRADE	TROWEL	
EXT. EQUIP. PADS	COARSE BROOM	
EXTERIOR STAIRS	COARSE BROOM	
-	-	

CONCRETE MATERIALS SCHEDULE		
LOCATION	MINIMUM COMPRESSIVE STRENGTH (AT 28 DAYS)	REMARKS
FOUNDATIONS	3000 PSI	-
FLOOR SLAB, EQUIPMENT PADS	4000 PSI	-

REVISIONS

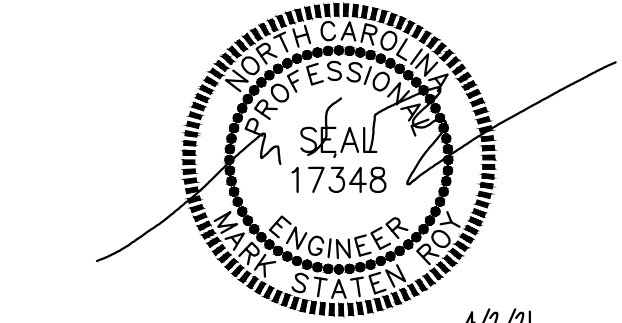
DATE  
 04/02/2021

SHEET TITLE

DESIGN CRITERIA, NOTES AND SCHEDULES

SHEET

S-5



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 RPA Project No.: 2021093



## GENERAL NOTES-ELECTRICAL

- ALL WORK SHALL CONFORM TO THE LATEST NATIONAL ELECTRICAL CODE, STATE CODE, & LOCAL AUTHORITY REQUIREMENTS.
- THE CONTRACTOR SHALL VISIT THE PREMISES AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL DETAILS OF THE WORK AND WORKING CONDITIONS. VERIFY ALL FIELD CONDITIONS INCLUDING LOCATION OF UTILITY LINES, STRUCTURES, AND ADVISE THE ENGINEER OF ANY DISCREPANCY THAT MAY PREVENT OR HINDER THE SPECIFIED WORK FROM BEING COMPLETED.
- THE CONTRACTOR SHALL STUDY THE STRUCTURE AND FINISH CONDITIONS AFFECTING HIS WORK AND SHALL COORDINATE HIS WORK ACCORDINGLY. THE CONTRACTOR SHALL PROVIDE ALL ACCESSORIES, HANGERS, AND ANCHORS AS NECESSARY TO MEET SUCH CONDITIONS WITHOUT ANY ADDITIONAL COST TO THE OWNER.
- PRIOR TO ACCOMPLISHING ANY WORK IN ANY AREA, ALL WORK SHALL BE PLANNED AND COORDINATED WITH OTHER TRADES AND THE OWNER. THE CONDUIT ROUTING SHALL BE COORDINATED WITH DUCT WORK, AND OTHER OBSTACLES SO AS TO PROVIDE THE MOST EFFICIENT AND AESTHETICALLY PLEASING INSTALLATION.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND ARRANGE INSPECTIONS NECESSARY FOR THE INSTALLATION OF HIS WORK AND FURNISH THE ENGINEER WITH CERTIFICATES OF INSPECTIONS FROM ALL AUTHORITIES HAVING JURISDICTION.
- PROPERLY SUPPORT ALL WORK AND EQUIPMENT INSTALLED UNDER THIS CONTRACT. STUDY ALL DRAWINGS, MANUFACTURER'S INSTRUCTIONS, AND CATALOG DATA TO DETERMINE HOW EQUIPMENT ACCESSORIES, AND RELATED ITEMS ARE TO BE SUPPORTED, MOUNTED, OR SUSPENDED. PROVIDE ALL BOLTS, INSERTS, BRACKETS, STRUCTURAL SUPPORTS, AND ACCESSORIES FOR PROPER SUPPORT OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- PROVIDE GREEN EQUIPMENT GROUNDING CONDUCTOR WITH ALL FEEDER AND BRANCH CIRCUITS.
- THE CONTRACTOR SHALL USE THE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS. DO NOT SCALE THESE PLANS.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
- ALL ELECTRICAL EQUIPMENT SHALL BE UL LABELED WHERE CATEGORY EXISTS FOR SUCH EQUIPMENT. OTHER THIRD PARTY LABELS ACCEPTABLE TO THE LOCAL INSPECTOR MAY BE USED.
- ALL POWER WIRING SHALL BE THW/THWN COPPER (TYPICAL)
- ELECTRICAL DEVICES REQUIRED TO BE ADA ACCESSIBLE SHALL BE INSTALLED PER ANSI A117.1.
- ELECTRICAL CONTRACTOR SHALL PROVIDE A.I.C. PLAQUES ON ALL THE SERVICE DISCONNECTS PER NEC 110.24.

LOAD CENTER "L" NEMA-3R, SERVICE RATED 100 A MAIN BUS RATING														
VOLTAGE :			MOUNTING: SURFACE			TYPE: SIEMENS-PNW1224B1100C 60A MAIN CIRCUIT BREAKER								
BRANCH CIRCUIT			DEVICE			PHASE LOADS			BRANCH CIRCUIT					
LOAD	WIRE SIZE	VA	TRIP	POLE	CKT	LEG-1	X	LEG-2	CKT	POLE	TRIP	VA	WIRE SIZE	LOAD
EXTERIOR WALL LIGHTS	L#10	221	20	I	1	227			2	I	20	6	2#12,1W/2G IN 3/4" C	TIME SWITCH
EXTERIOR CAN LIGHTS	1#00G	390	20	I	3			570	4	I	20	180	2#12,1W/2G IN 3/4" C	RECEPTACLE
EXTERIOR CAN LIGHTS	IN 3/4" C	180	20	I	5	180			6	I		0		SPACE
SPARE		0	20	I	7			0	8	I		0		SPACE
SPARE		0	20	I	9	0			10	I		0		SPACE
SPARE		0	20	I	11			0	12	I		0		SPACE
KVA LOAD		0.98	LOAD PER PH IN VA		407	0	570	10,000 AMPS						
AMPERE LOAD		2.35	LOAD PER PH IN AMPS		3.4	0.0	4.8	MIN. INTERRUPTING CAP. (RMS SYM. AMPS)						
DEMAND LOAD PER PH IN AMPS		4.1	0.0	5.7										
CONNECTED		DEMAND		1. COPPER BUS										
LIGHTING		797	996											
RECEPTACLES		180	180											
COMPUTERS		0	0											
HVAC		0	0											
OTHER		0	0											
TOTAL DEMAND LOAD		1.18	KVA		DEMAND FACTOR =		1.20							
DEMAND AMPS		5	AMPS											

## LIGHTING FIXTURE SCHEDULE (THE OWNER MAY SELECT OTHER LIGHT MFR AND TYPE WITH CLOSE PROXIMITY OF WATTAGE)

DRAWING SYMBOL	MANUFACTURER	MODEL NUMBER	MOUNTING	MOUNTING ACCESSORIES	LAMP TYPE	LAMP WATTAGE	VOLTAGE	DESCRIPTION
A	HIGHLINE	AL4-VA1-U-C-DM-15W-40K-C-SFW-HZ-CR	RECESSED	AS PER MFR. REQUIREMENTS	LED	15	120	LED 4" RECESSED CAN LIGHT, CREE, NON DIMMABLE, 1000 LUMENS, CHANNEL BAR HANGER MOUNT, SELF FLANGED WHITE REFLECTOR, UL LISTED FOR DAMP LOCATION
AE	HIGHLINE	AL4-VA1-U-C-DM-15W-40K-EM-C-SFW-HZ-CR	RECESSED	AS PER MFR. REQUIREMENTS	LED	15	120	LED 4" RECESSED CAN LIGHT, CREE, NON DIMMABLE, 1000 LUMENS, CHANNEL BAR HANGER MOUNT, SELF FLANGED WHITE REFLECTOR, UL LISTED FOR DAMP LOCATION, 90 MINUTE BATTERY BACK
B	HI-LITE MFG. CO., INC	H-18110-91/HL-H-91/13W/LED2/27/WBCM-1	WALL MOUNT	AS PER MFR. REQUIREMENTS	LED	13	120	WALL MOUNT LED GOOSE NECK, BLACK PAINT, 22" ARM, LED LAMP, 13 W, 1250 LUMENS

## ENERGY CODE SUMMARY

ELECTRICAL SYSTEM & EQUIPMENT

METHOD OF COMPLIANCE

ENERGY CODE  PRESCRIPTIVE  PERFORMANCE

ASHRAE 90.1  PRESCRIPTIVE  PERFORMANCE

LIGHTING SCHEDULE (EACH FIXTURE TYPE)

LAMP TYPE REQUIRED IN FIXTURE

NUMBER OF LAMPS IN FIXTURE

BALLAST TYPE USED IN THE FIXTURE

NUMBER OF BALLASTS IN FIXTURE

TOTAL WATTAGE PER FIXTURE

REFER TO LIGHTING SCHEDULE

REFER TO LUMINAIRE SCHEDULE

REFER TO LUMINAIRE SCHEDULE

REFER TO LUMINAIRE SCHEDULE

REFER TO LUMINAIRE SCHEDULE

N.A. KW SPECIFIED VS N.A. KW ALLOWED

TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED (WHOLE BUILDING OR SPACE BY SPACE METHOD)

0.797 KW SPECIFIED VS 1.75 KW ALLOWED

TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED

## SECTION C406

### ADDITIONAL ENERGY EFFICIENCY PACKAGE

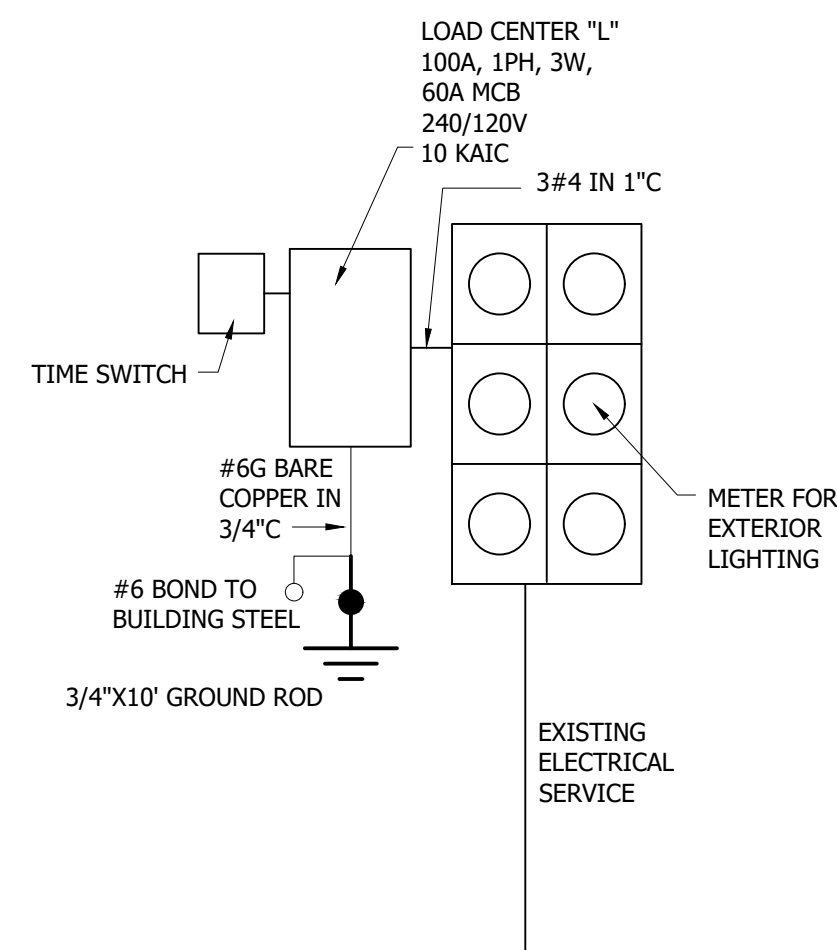
- C406.2 MORE EFFICIENT MECHANICAL EQUIPMENT
- C406.3 REDUCED LIGHTING POWER DENSITY
- C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
- C406.5 ON SITE RENEWABLE ENERGY
- C406.6 DEDICATED OUTSIDE AIR SYSTEM
- C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

## ELECTRICAL LEGEND:

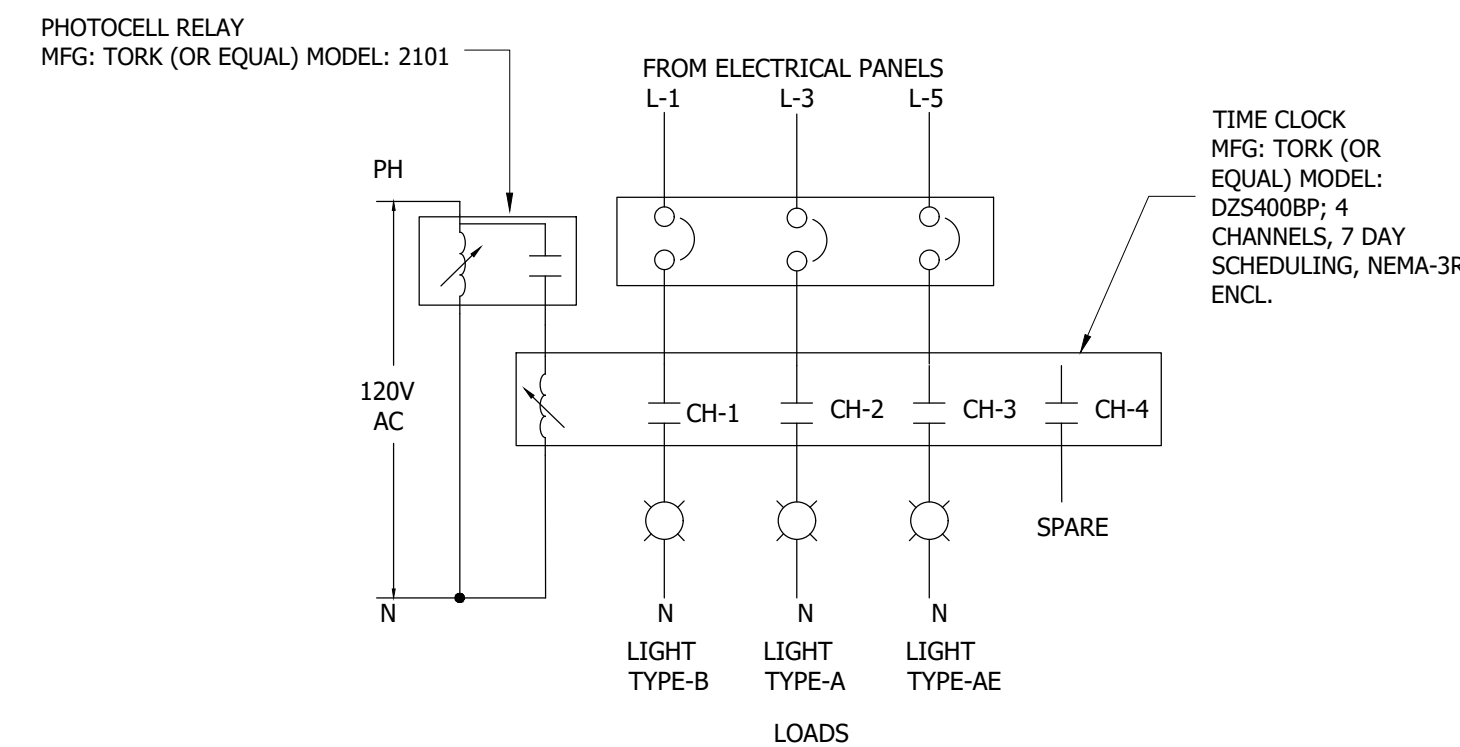
	4" RECESSED LED CAN LIGHT
	4" RECESSED LED CAN LIGHT WITH 90 MIN BATTERY BACK UP POWER
	EXTERIOR WALL LED LIGHT
	DUPLEX SPECIFICATION GRADE RECEPTACLE, 20A, 120V, MOUNT 18" AFF UNO; SUFFIX AS FOLLOWS G- GROUND FAULT; WP-WEATHERPROOF; TP- TAMPER PROOF
	ELECTRICAL PANELBOARD
	PHOTOCELL RELAY
	BRANCH CIRCUIT OR FEEDER WIRING, RUN IN CONDUIT AND CIRCUIT HOMERUN TO PANELBOARD INDICATED. SINGLE PHASE CIRCUIT SHALL CONTAIN 1 #12 PHASE CONDUCTOR, 1 #12 NEUTRAL CONDUCTOR AND 1 #12 GROUNDING CONDUCTOR IN 3/4" CONDUIT, MINIMUM. CONDUCTORS LARGER THAN #12, AND CONDUIT LARGER THAN 3/4" SHALL BE AS INDICATED. WHERE "MULTIPLE PHASED" ELECTRICAL LOADS ARE REQUIRED, PROVIDE ADDITIONAL PHASE CONDUCTORS. MULTIPLE SINGLE PHASE CONDUCTORS MAY BE GROUPED TOGETHER IN A COMMON CONDUIT AS ALLOWED AND IN ACCORDANCE WITH THE NEC, AND/OR AT THE CONTRACTOR'S DISCRETION. CONTRACTOR SHALL PROVIDE ADDITIONAL "SWITCH LEG" CONDUCTORS, AS REQUIRED TO ACHIEVE FIXTURE CONTROL INDICATED ON PLANS. NEUTRAL AND GROUNDING CONDUCTORS SHALL BE SHARED IN ACCORDANCE WITH AND AS ALLOWED BY THE NEC.

## STANDARD ABBREVIATIONS

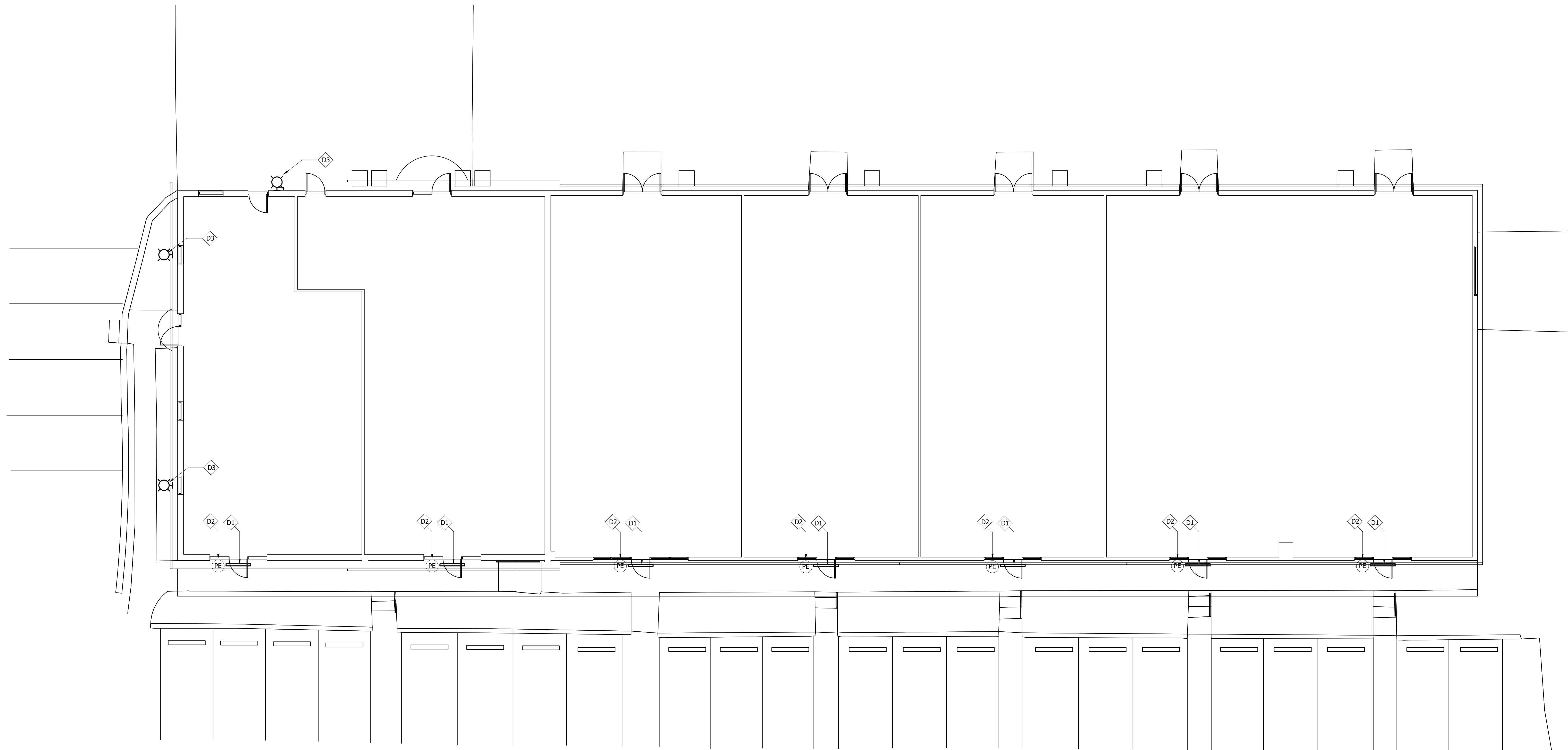
A	- AMPERES OR ABOVE COUNTER
AFF	- ABOVE FINISHED FLOOR
AFG	- ABOVE FINISHED GROUND
C	- CONDUIT
EX	- EXISTING
EC	- ELECTRICAL CONTRACTOR
G	- EQUIPMENT GROUNDING CONDUCTOR OR GROUND FAULT CIRCUIT INTERRUPTER
GFCI	- GROUND FAULT CIRCUIT INTERRUPTER
GC	- GENERAL CONTRACTOR
N	- NEUTRAL CONDUCTOR
P	- POLE
PH	- PHASE
PNL	- PANELBOARD
REC	- RECEPTACLE
TYP	- TYPICAL
UNO	- UNLESS NOTED OTHERWISE
V	- VOLTS
W	- WATTS, WIRES
WP	- WEATHERPROOF WHILE IN USE



**1** ELECTRICAL RISER DIAGRAM  
SCALE: NTS



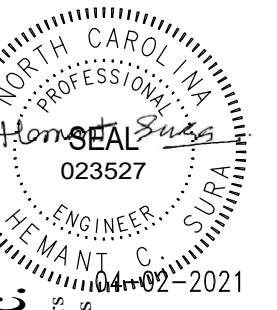
**2** LIGHTING CONTROLS DETAIL  
SCALE: NTS



**DEMOLITION NOTES:**

- D1 REMOVE SURFACE MOUNT 4' FLUORESCENT STRIP LIGHT. REMOVE WIRING AND CONDUIT.
- D2 REMOVE CONDUIT MOUNT PHOTOCELL RELAY AND WIRING. WIRING SHALL BE REMOVED BACK TO THE PANELBOARD OR THE NEAREST JUNCTION BOX. VERIFY IN FIELD.
- D3 REMOVE SURFACE MOUNT WALL LIGHT. REMOVE WIRING AND CONDUIT.

**1 ELECTRICAL DEMOLITION PLAN**  
SCALE: 1/8"=1'-0"



1501 N. RALEIGH STREET  
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REVISIONS

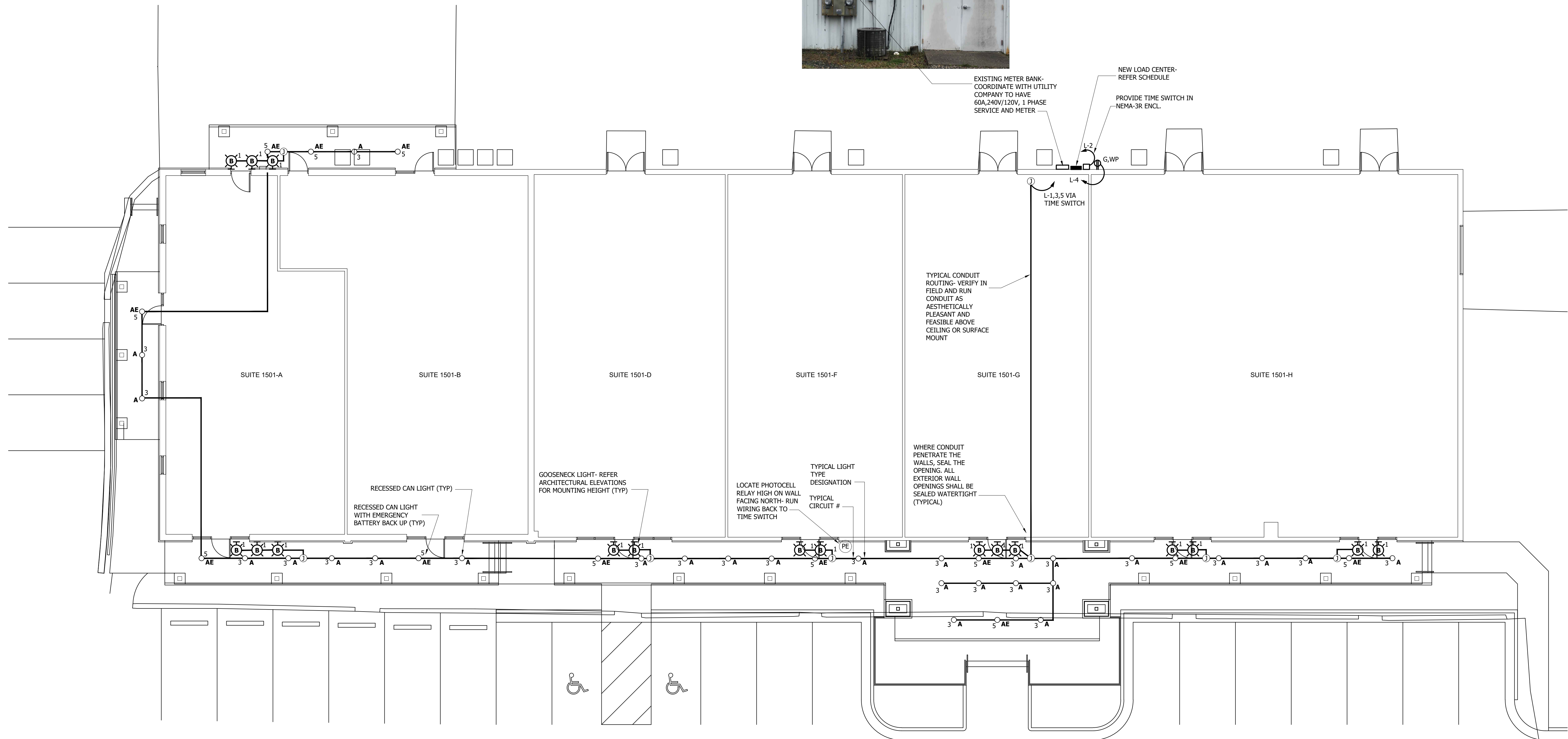
DATE  
04-02-2021

SHEET TITLE

ELECTRICAL  
DEMOLITION  
PLAN

SHEET

**E2**



EXISTING METER BANK-  
COORDINATE WITH UTILITY  
COMPANY TO HAVE  
60A, 240V/120V, 1 PHASE  
SERVICE AND METER

NEW LOAD CENTER-  
REFER SCHEDULE

PROVIDE TIME SWITCH IN  
NEMA-3R ENCL.

TYPICAL CONDUIT  
ROUTING- VERIFY IN  
FIELD AND RUN  
CONDUIT AS  
AESTHETICALLY  
PLEASANT AND  
FEASIBLE ABOVE  
CEILING OR SURFACE  
MOUNT

WHERE CONDUIT  
PENETRATE THE  
WALLS, SEAL THE  
OPENING. ALL  
EXTERIOR WALL  
OPENINGS SHALL BE  
SEALED WATERTIGHT  
(TYPICAL)

- LIGHTING NOTES:**
1. CONNECT EMERGENCY LIGHT AHEAD OF LIGHT SWITCH TO AN UNSWITCHED CONDUCTOR.
  2. ALL DEVICES REQUIRED TO BE ADA ACCESSIBLE WILL BE INSTALLED PER ANSI A117.
  3. ALL LIGHTS CIRCUIT SHALL BE WIRED THRU TIME SWITCH.

**1 ELECTRICAL NEW WORK PLAN**  
SCALE: 1/8"=1'-0"

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SHEET TITLE  
**ELECTRICAL  
NEW WORK  
PLAN**

SHEET  
**E3**

