

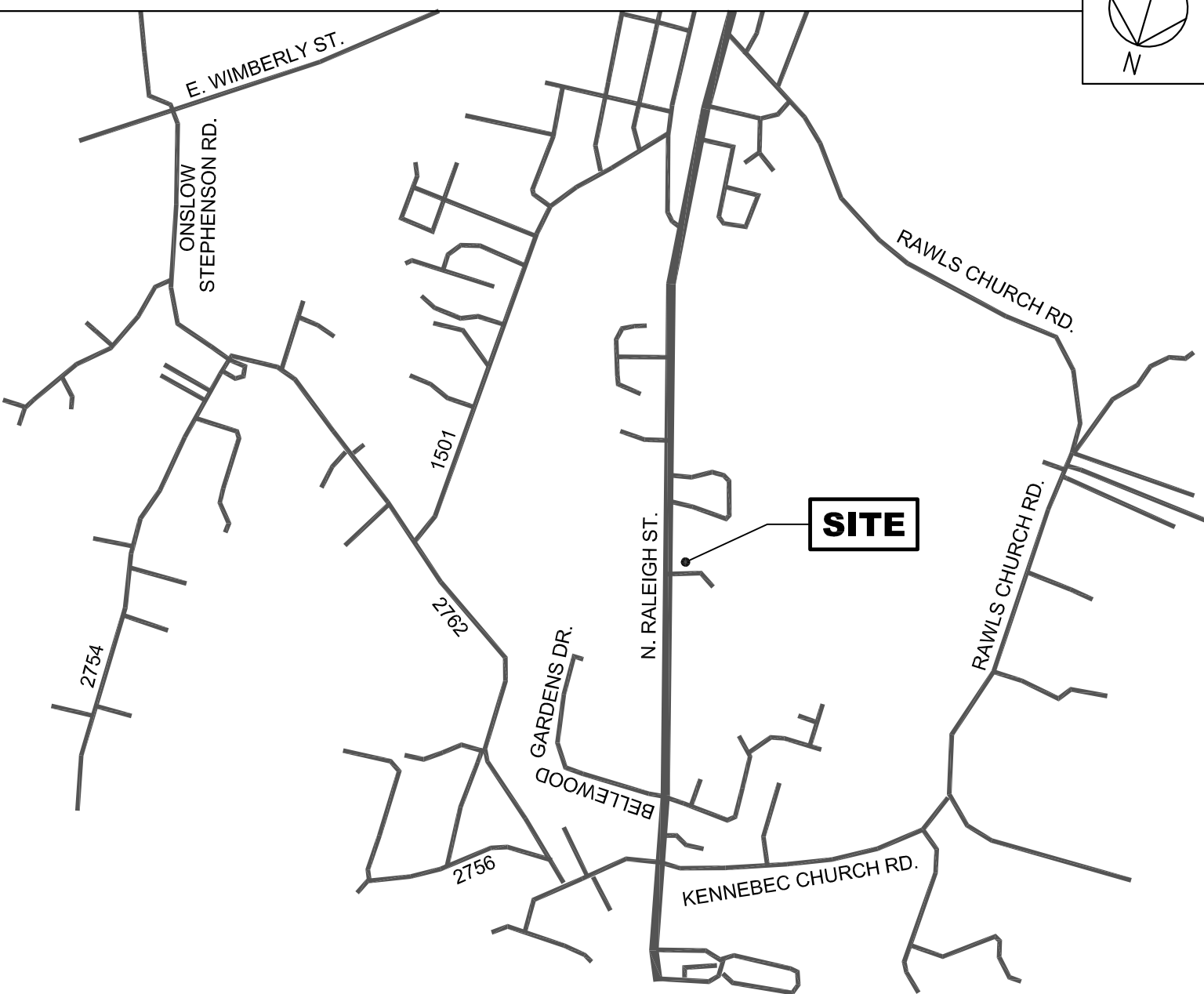
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ABBREVIATIONS

AC.	ACRE	SIM.	SIMILAR
A.F.F.	ABOVE FINISH FLOOR	SQ. FT. / SF.	SQUARE FEET
CONC.	CONCRETE	TYP.	TYPICAL
CMU	CONCRETE MASONRY UNIT	U.N.O.	UNLESS NOTED OTHERWISE
ELEC.	ELECTRICAL		
ELEV.	ELEVATION		
HC.	HANDICAP		
MAX.	MAXIMUM		
MECH.	MECHANICAL		
MIN.	MINIMUM		
NOM.	NOMINAL		

VICINITY MAP



2018 APPENDIX B BUILDING CODE SUMMARY

Address: 1501 N. Raleigh Street Zip Code: 27501
 Owner/Authorized Agent: Linderman Properties, LLC Phone: 919-612-3000 Email: john.linderman@avisonyoung.com
 Owned By: City/County Private State
 Code Enforcement Jurisdiction: City Angier County State

PROJECT COORDINATOR: Tommy Wing

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #
Architectural	EA Studio Architecture + Interiors, PLLC	Tommy Wing, RA	12759	919-656-2317
Civil	N/A	N/A	N/A	N/A
Electrical	GreenTech Consulting, Inc.	Hemant Sura, PE	23527	919-859-8884
Fire Alarm	N/A	N/A	N/A	N/A
Plumbing	N/A	N/A	N/A	N/A
Mechanical	N/A	N/A	N/A	N/A
Sprinkler-Standpipe	N/A	N/A	N/A	N/A
Structural (Frame)	RPA Engineering, PA	Mark Roy, PE	17348	252-321-6027
Retaining Walls > 5' High	N/A	N/A	N/A	N/A

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 II-A III-A IV V-A
 I-B II-B III-B 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

FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUB-TOTALS (SQ. FT.)
First Floor	12,576	0	12,576
TOTAL	12,576	0	12,576

ALLOWABLE AREA:

Primary Occupancy Classification:
 Assembly A-1 A-2 A-3 A-4 A-5
 Business
 Educational
 Factory F-1 Moderate F-2 Low
 Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
 Institutional I-1 Condition 1 2
 I-2 Condition 1 2
 I-3 Condition 1 2 3 4 5
 I-4
 Mercantile
 Residential R-1 R-2 R-3 R-4
 Storage S-1 Moderate S-2 Low High-piled
 Parking Garage Open Closed Repair Garage
 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. The most restrictive type of construction, so determined, shall apply 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.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

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}
First Floor	Mercantile *	12,576	9,000	6,750 (75%)	15,750

* 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 $\{ = 100[F/P - 0.25] \times W/30 = 75 \%$

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:

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹
Building Height in Feet (Table 504.3)	40'	27'	N/A
Building Height in Stories (Table 504.4)	1	1	N/A

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

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQD.	RATING PROVIDED (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural frame, including columns, girders, trusses		0 HR	N/A	N/A	N/A	N/A	N/A
Bearing walls							
Exterior							
North	> 30'	0 HR	N/A	N/A	N/A	N/A	N/A
East							
West							
South							
Interior		0 HR	N/A	N/A	N/A	N/A	N/A
Nonbearing walls and partitions							
Exterior							
North	> 30'	0 HR	EXISTING	N/A	N/A	N/A	N/A
East							
West							
South							
Interior Walls and Partitions		0 HR	EXISTING	N/A	N/A	N/A	N/A
Floor construction including supporting beams and joists		0 HR	EXISTING	N/A	N/A	N/A	N/A
Floor Ceiling Assembly		N/A	N/A	N/A	N/A	N/A	N/A
Columns Supporting Floors		0 HR	EXISTING	N/A	N/A	N/A	N/A
Roof construction including supporting beams and joists		0 HR	EXISTING	N/A	N/A	N/A	N/A
Roof Ceiling Assembly		0 HR	EXISTING	N/A	N/A	N/A	N/A
Columns Supporting Roof		0 HR	EXISTING	N/A	N/A	N/A	N/A
Shaft Enclosures - Exit		N/A	N/A	N/A	N/A	N/A	N/A
Shaft Enclosures - Other		N/A	N/A	N/A	N/A	N/A	N/A
Corridor Separation		N/A	N/A	N/A	N/A	N/A	N/A
Fire Barrier Separation		N/A	N/A	N/A	N/A	N/A	N/A
Fire Partition Separation		1 HR	EXISTING	N/A	N/A	N/A	N/A
Party / Fire Wall Separation		N/A	N/A	N/A	N/A	N/A	N/A
Smoke Barrier Separation		N/A	N/A	N/A	N/A	N/A	N/A
Tenant/Dwelling Unit Separation		N/A	N/A	N/A	N/A	N/A	N/A
Incidental Use Separation		N/A	N/A	N/A	N/A	N/A	N/A

- Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

Fire Separation Distance (Feet) from Property Lines	Degree of Openings Protection (Table 705.8)	Allowable Area (%)	Actual Shown on Plans (%)
N/A			

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):

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
							N/A

ACCESSIBLE PARKING (SEC. 1106):

PARKING AREA	TOTAL # OF SPACES REQUIRED	# OF ACCESSIBLE SPACES PROVIDED	# OF ACCESSIBLE SPACES WITH 5' ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
TOTAL	2	2	1	1	2

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1):

USES:	WATERCLOSETS	URINALS	LAVATORIES	SHOWERS/TUBS	DRINKING FOUNTAINS	
Retail and Business	MALE	FEMALE	MALE	FEMALE	REGULAR	ACCESSIBLE
EXISTING	N/A - EXTERIOR ALTERATIONS ONLY					
NEW	N/A - EXTERIOR ALTERATIONS ONLY					
REQUIRED	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. If performance method, state the annual energy cost for the standard reference design vs. annual energy cost for the proposed design.

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

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

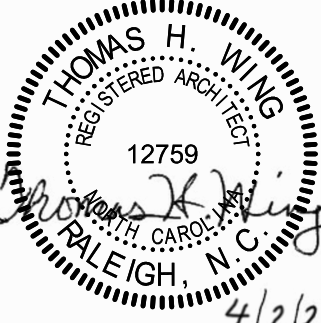
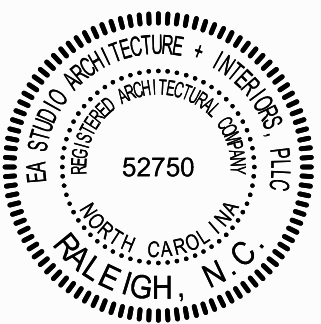
Climate Zone: 3 4A 5A

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



4/2/21

1501 N. RALEIGH STREET
 ANGIER, NC 27501

REVISIONS

DATE
 04/02/2021

SHEET TITLE

BUILDING CODE SUMMARY

SHEET

CS-1

SCOPE OF WORK

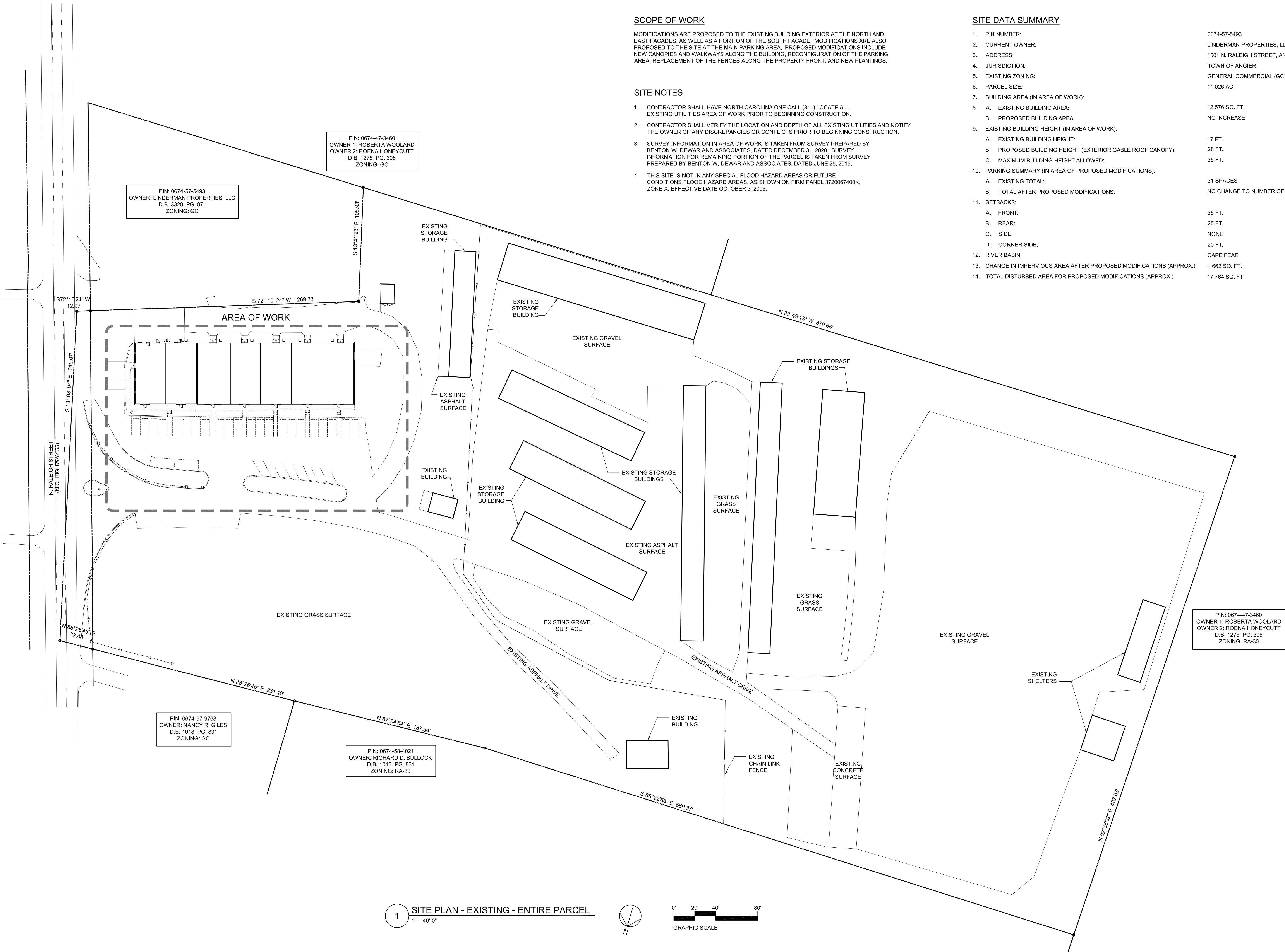
MODIFICATIONS ARE PROPOSED TO THE EXISTING BUILDING EXTERIOR AT THE NORTH AND EAST FACADES, AS WELL AS A PORTION OF THE SOUTH FACADE. MODIFICATIONS ARE ALSO PROPOSED TO THE SITE AT THE MAIN PARKING AREA. PROPOSED MODIFICATIONS INCLUDE NEW CANOPIES AND WALKWAYS ALONG THE BUILDING, RECONFIGURATION OF THE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



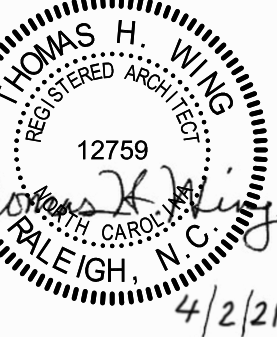
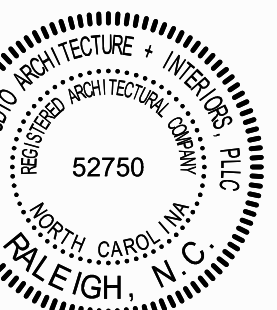
PIN: 0674-57-5493
OWNER: LINDERMAN PROPERTIES, LLC
D.B. 3329 PG. 971
ZONING: GC

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

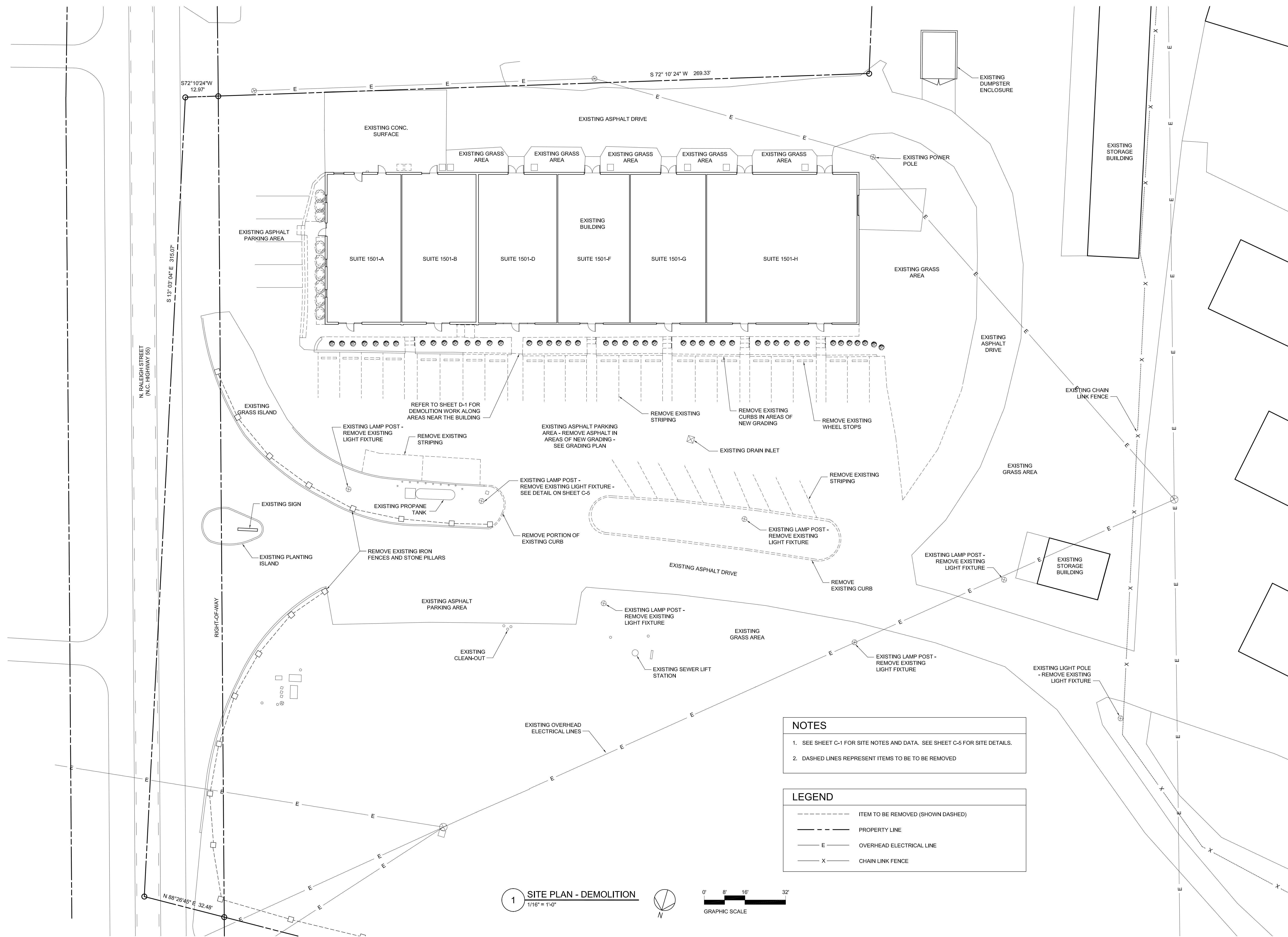
DATE
04/02/2021

SHEET TITLE

SITE PLAN -
EXISTING -
ENTIRE PARCEL

SHEET

C-1



S72°10'24"W
12.97'

S 72° 10' 24" W 269.33'

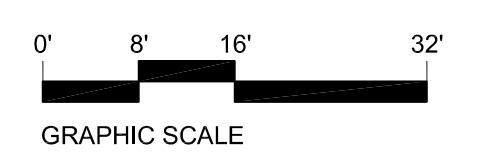
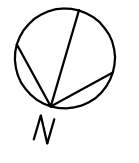
S 13° 03' 04" E 315.07'

N RALEIGH STREET
(N.C. HIGHWAY 55)

RIGHT-OF-WAY

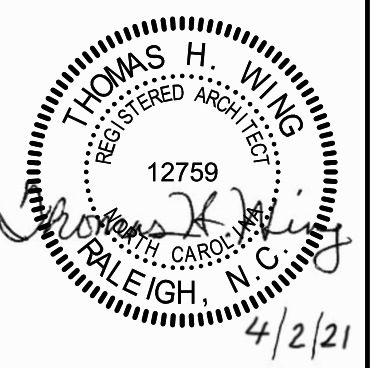
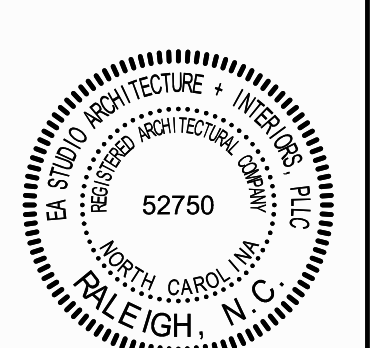
N 88°26'45" E 32.48'

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



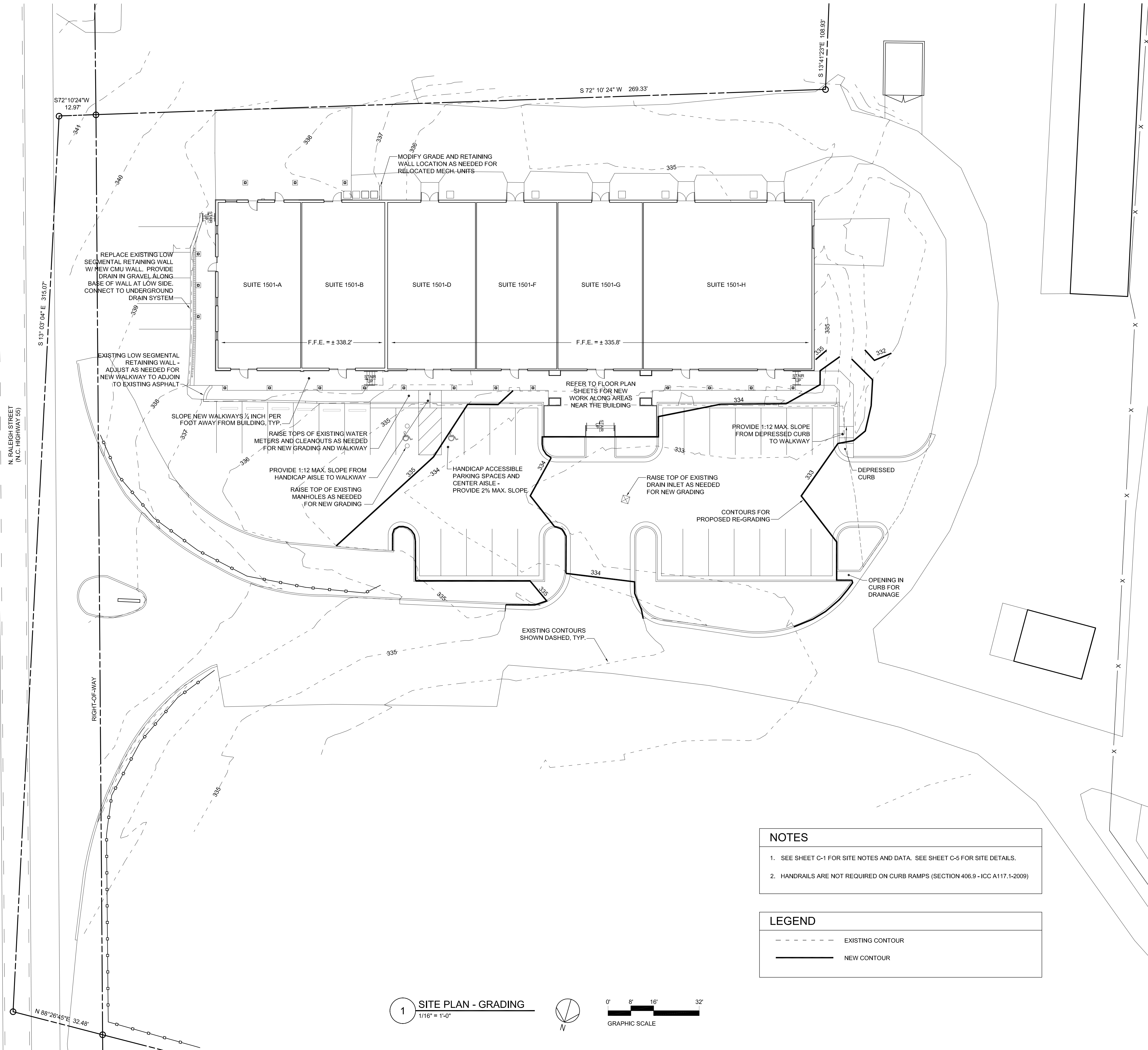
1501 N. RALEIGH STREET
ANGIER, NC 27501

REVISIONS

DATE
04/02/2021

SHEET TITLE
SITE PLAN - DEMOLITION

SHEET
C-2



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

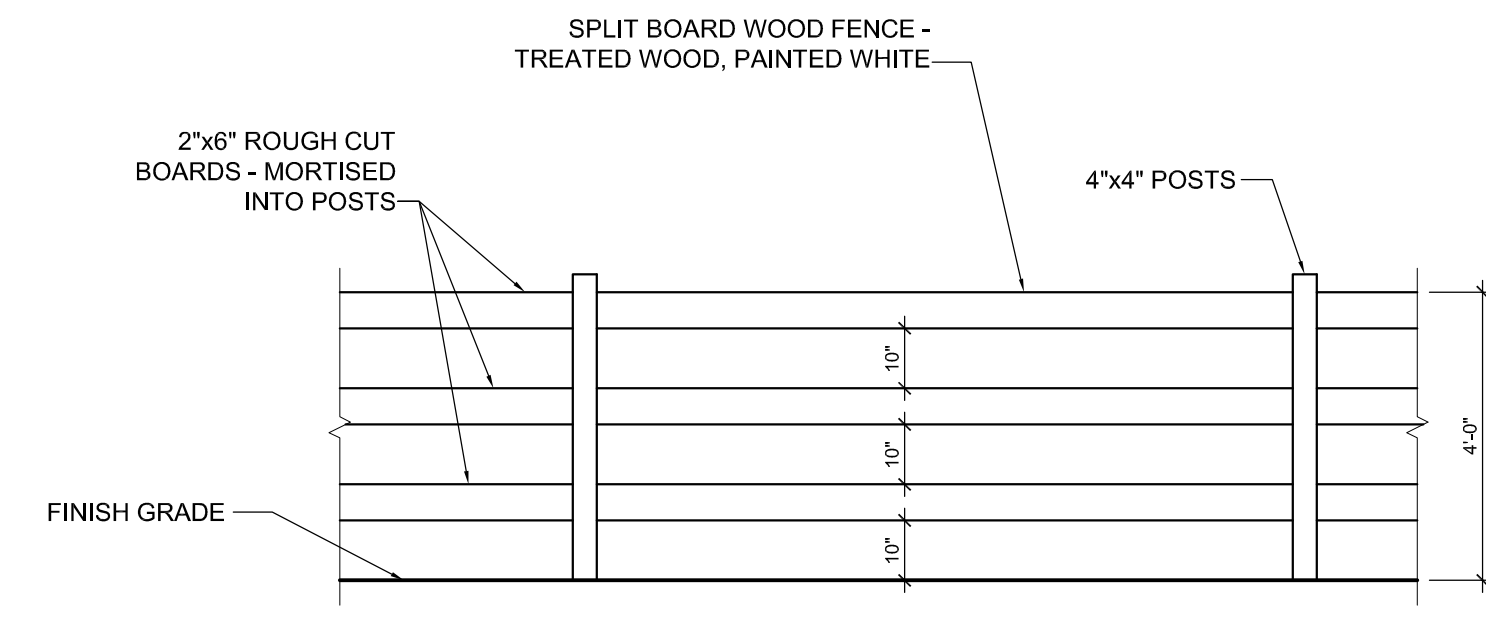
1501 N. RALEIGH STREET
 ANGIER, NC 27501

REVISIONS

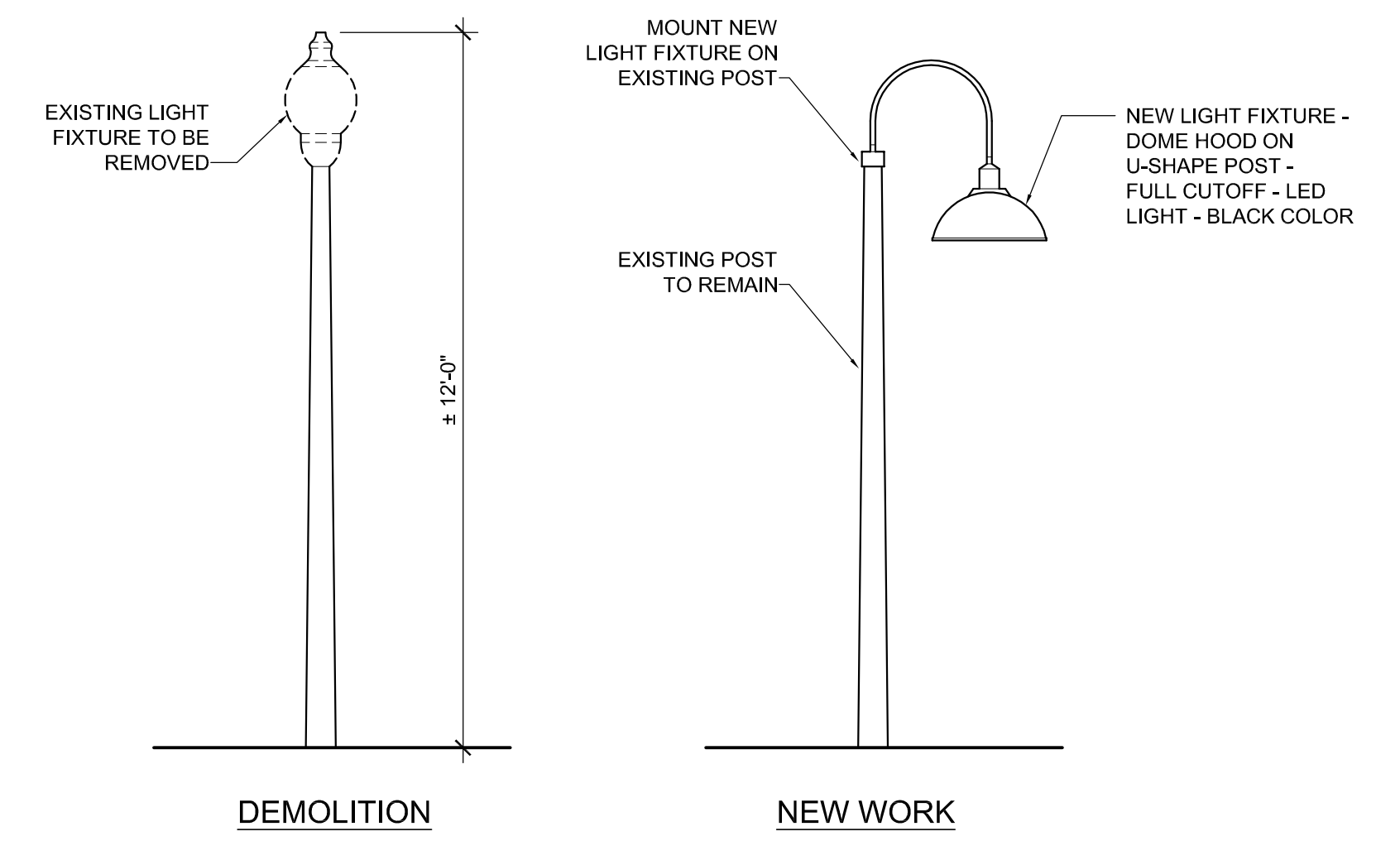
DATE
 04/02/2021

SHEET TITLE
 SITE PLAN - GRADING

SHEET
C-4



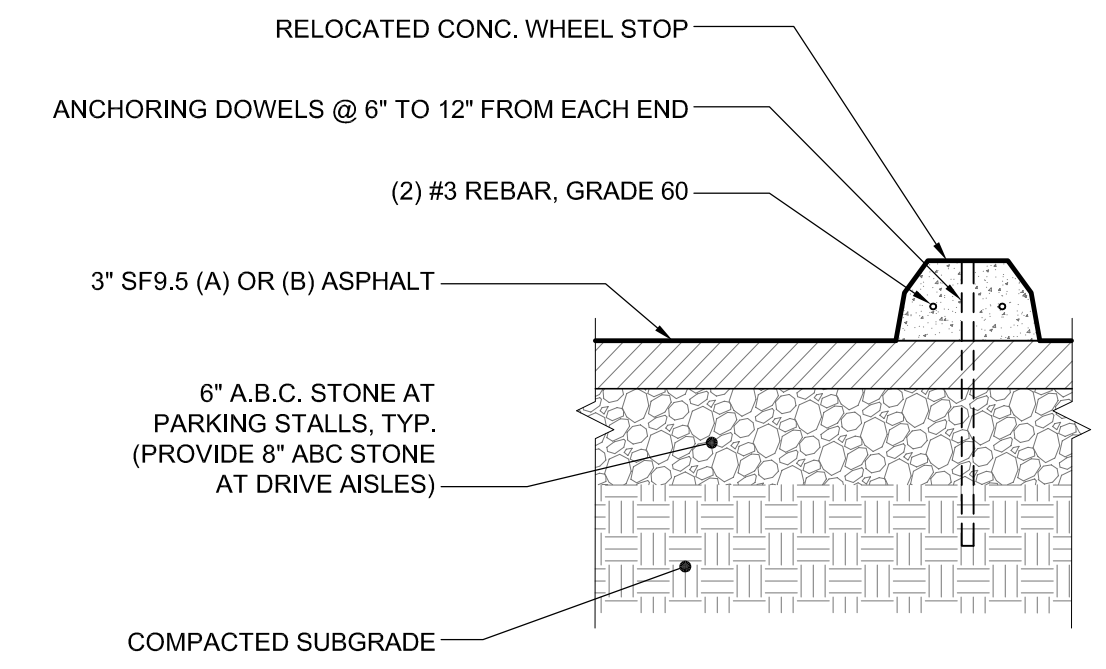
1 FENCE - ELEVATION DETAIL
 3/8" = 1'-0"



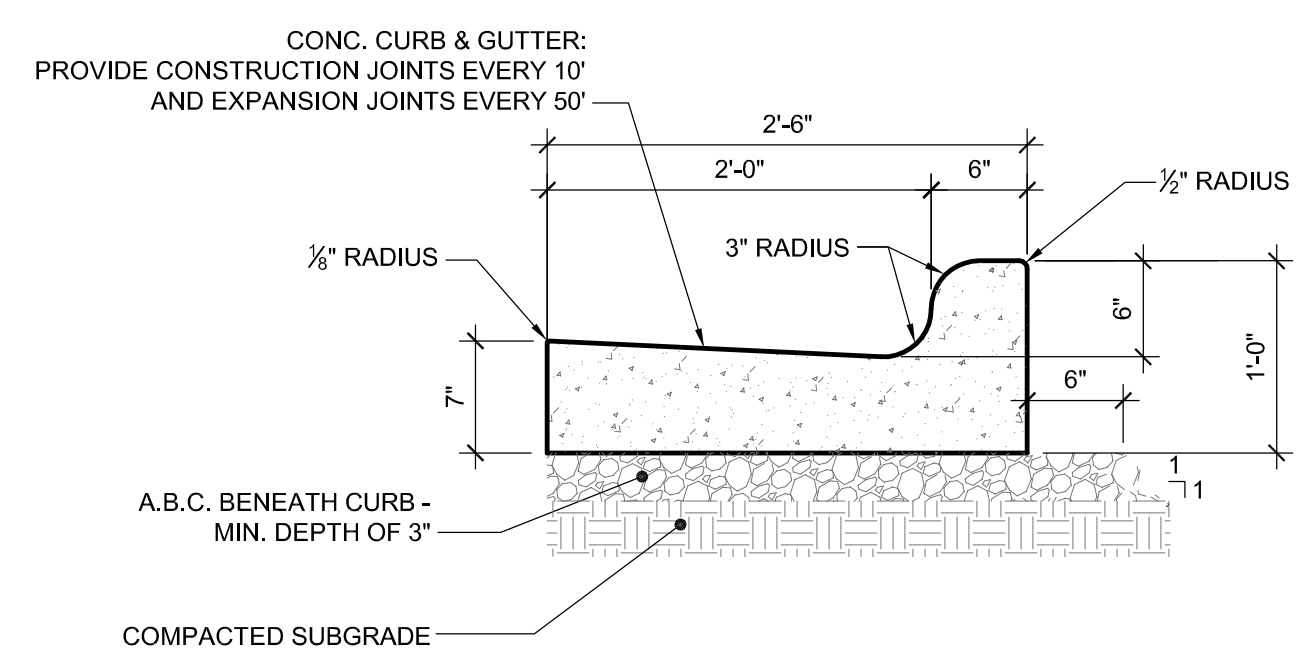
2 LAMP POST
 3/8" = 1'-0"

NOTES:

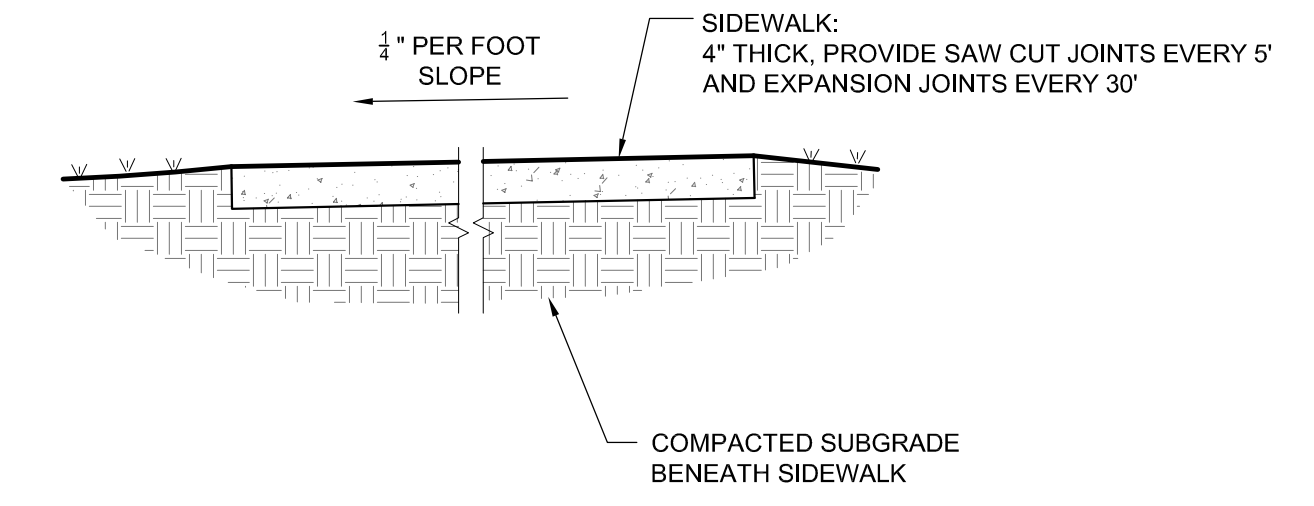
1. CONCRETE SHALL BE 3,000 P.S.I.
2. EXPANSION JOINTS ARE TO HAVE JOINT FILLER AND SEALER
3. FINISH ALL CONCRETE WITH A CURING COMPOUND
4. COMPACTED SUBGRADE TO BE 95% MAX. STANDARD PROCTOR DRY DENSITY



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

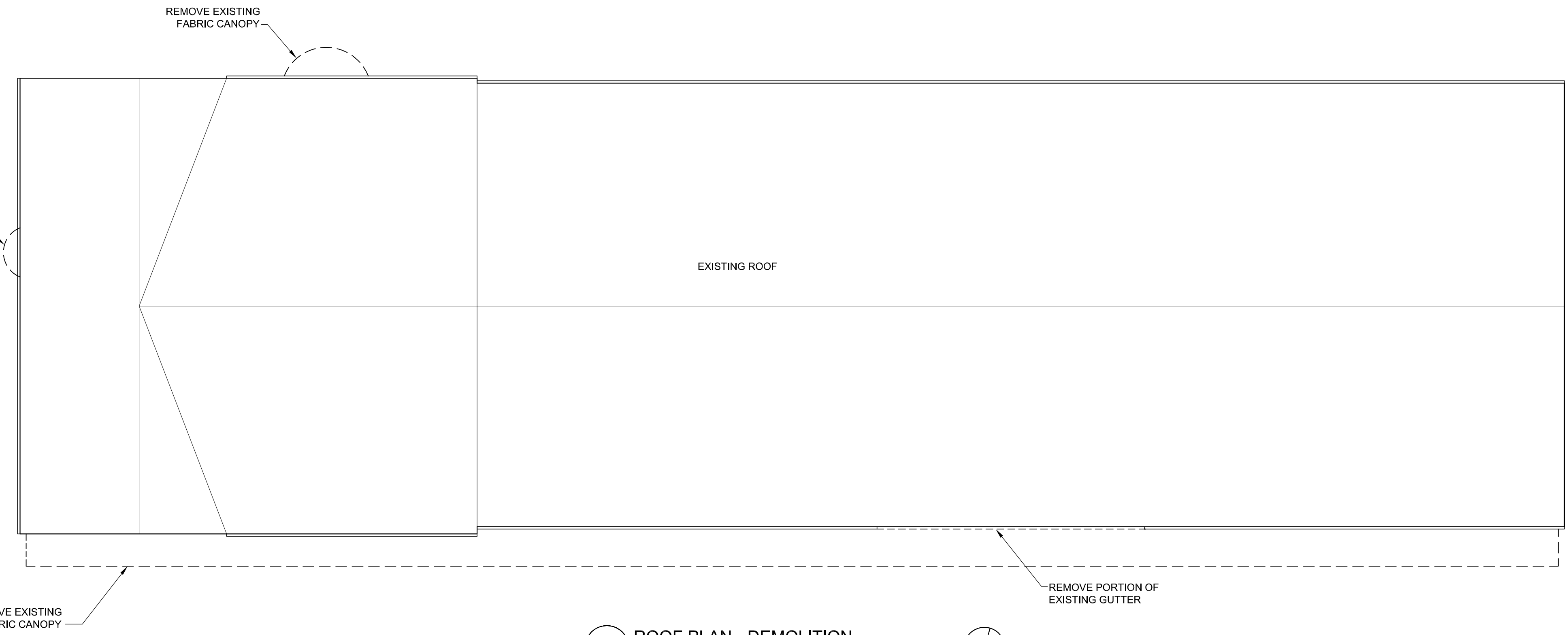


4 CURB & GUTTER - SECTION DETAIL
 1" = 1'-0"

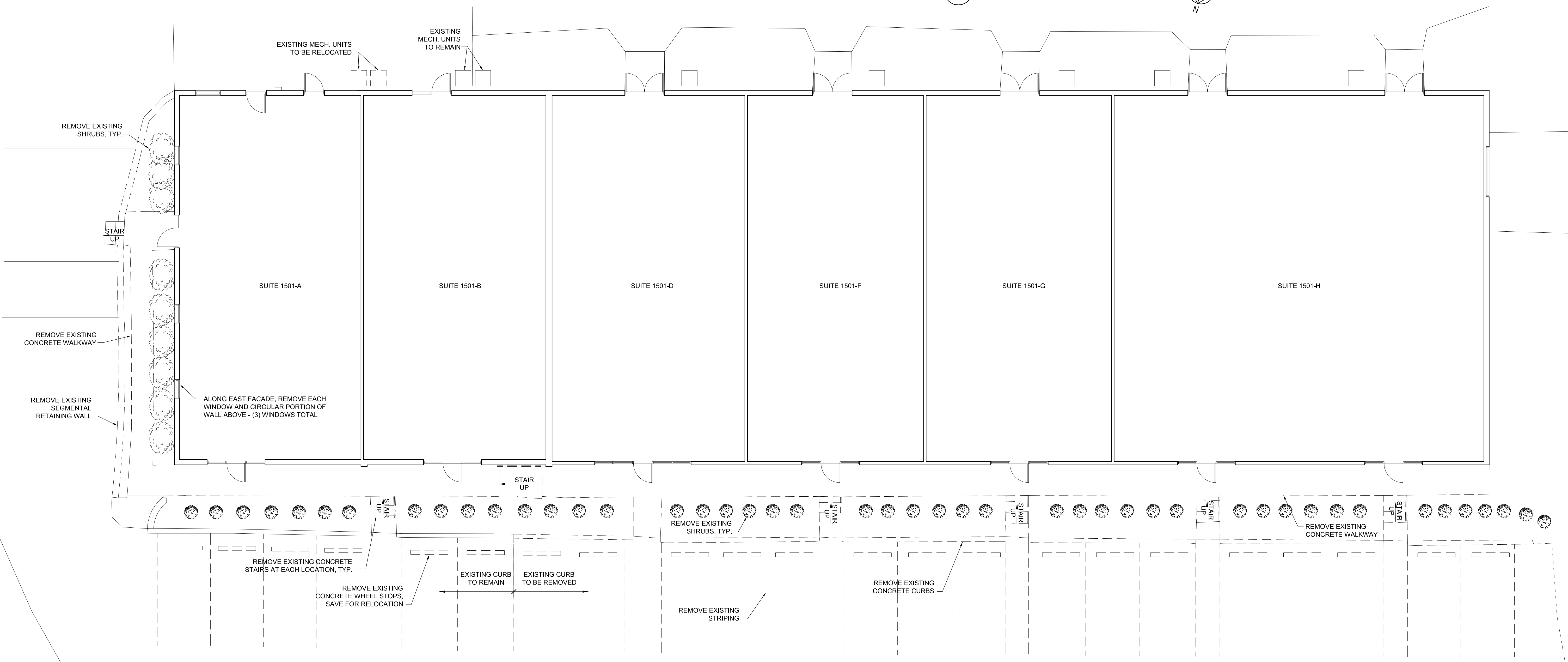


5 SIDEWALK - SECTION DETAIL
 1" = 1'-0"

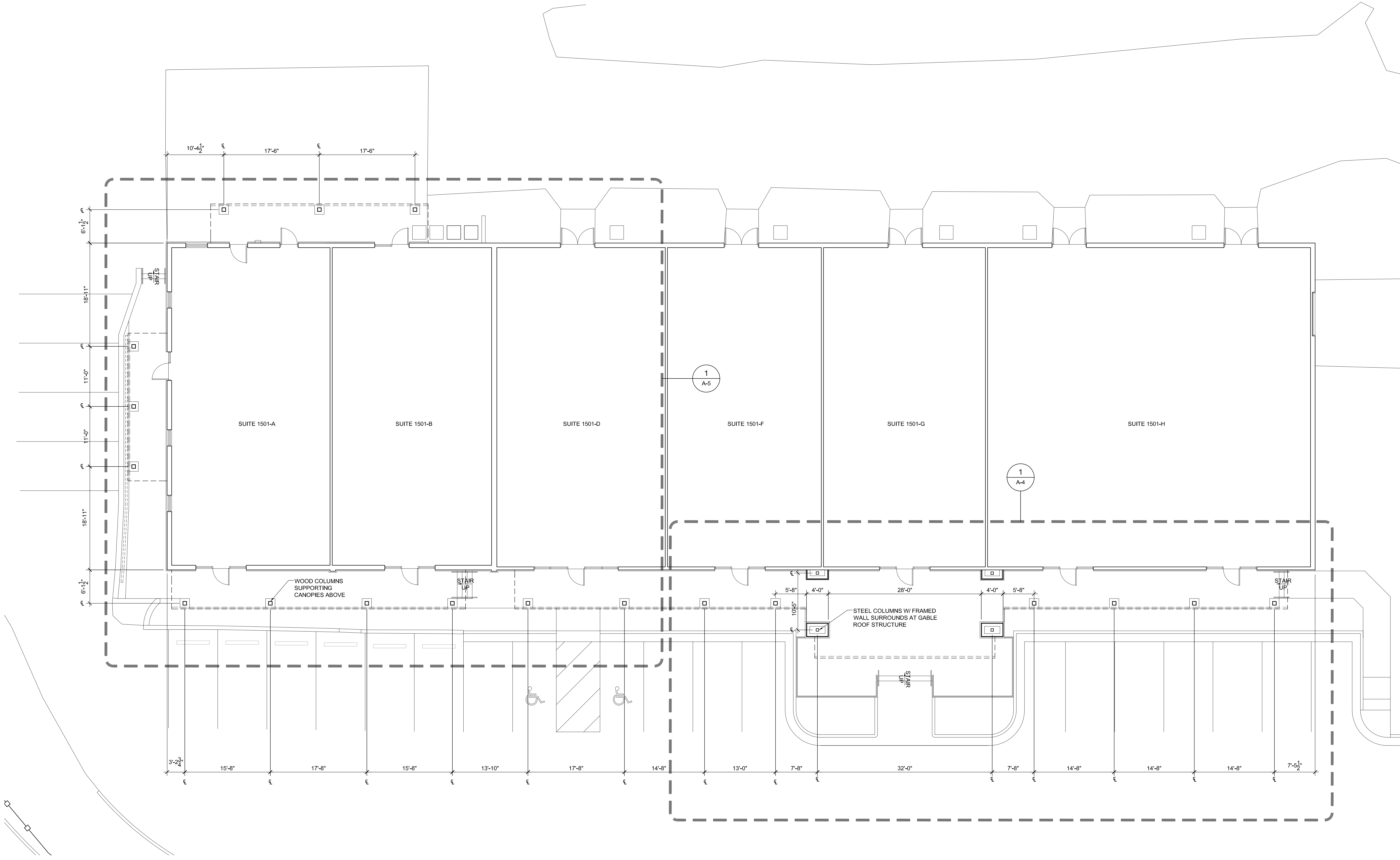
NOTES:
 1. REFER TO SHEET A-2 FOR GENERAL NOTES, DRAWING SYMBOLS AND MATERIAL FINISH SCHEDULE
 2. DASHED LINES ON THE PLANS REPRESENT ITEMS THAT ARE TO BE REMOVED.



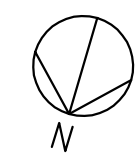
2 ROOF PLAN - DEMOLITION
 3/32" = 1'-0"



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

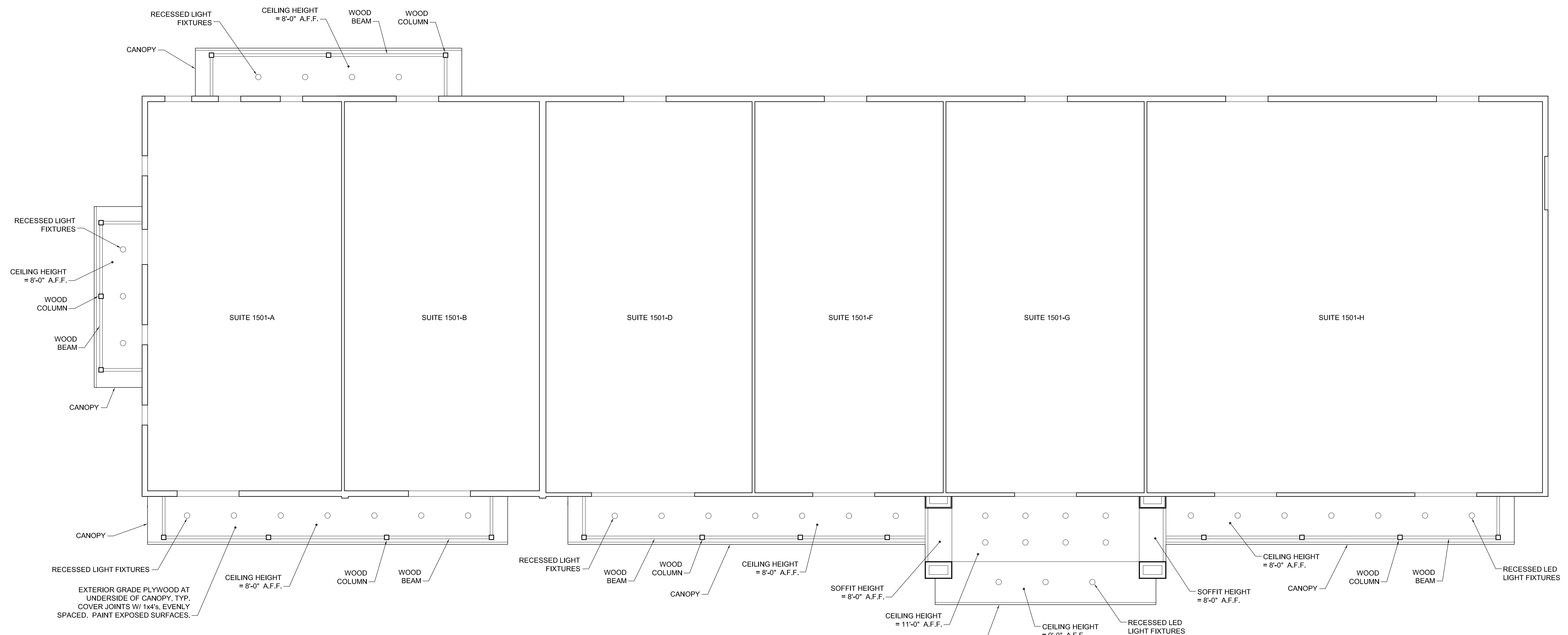
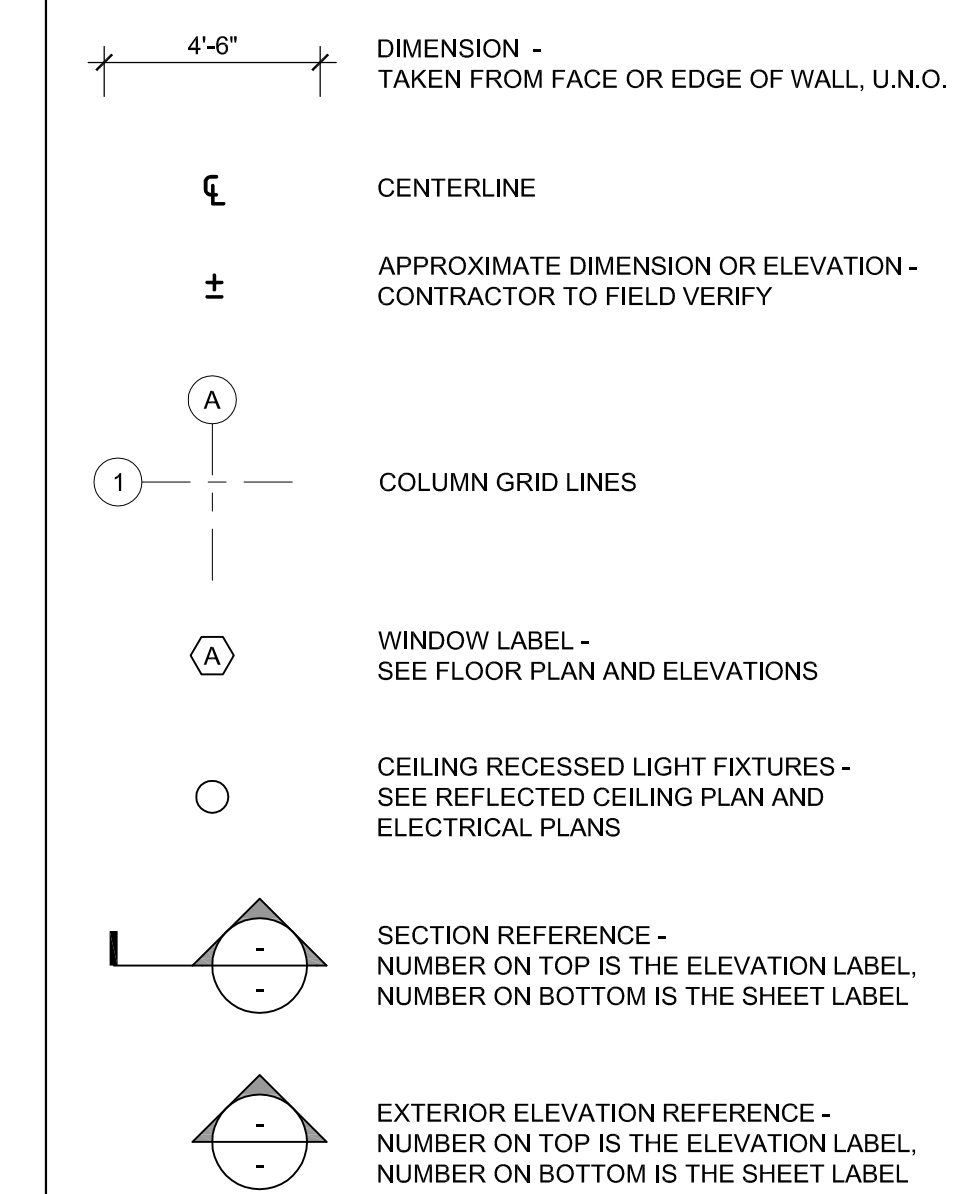
NOTES:

- 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.

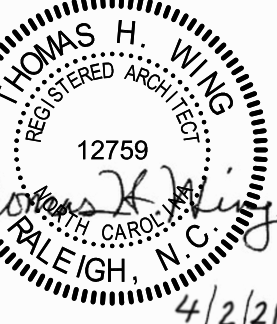
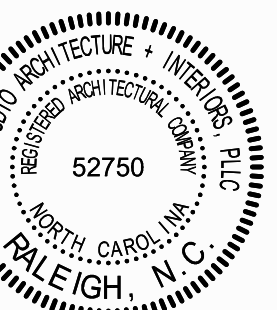
GENERAL NOTES

- 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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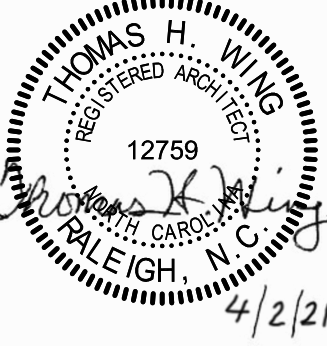
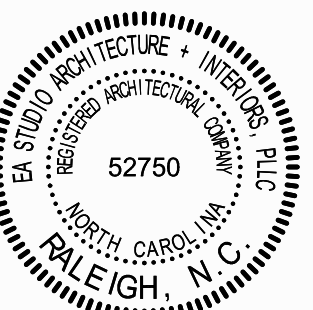
DATE
04/02/2021

SHEET TITLE

REFLECTED
CEILING PLAN -
NEW WORK

SHEET

A-2



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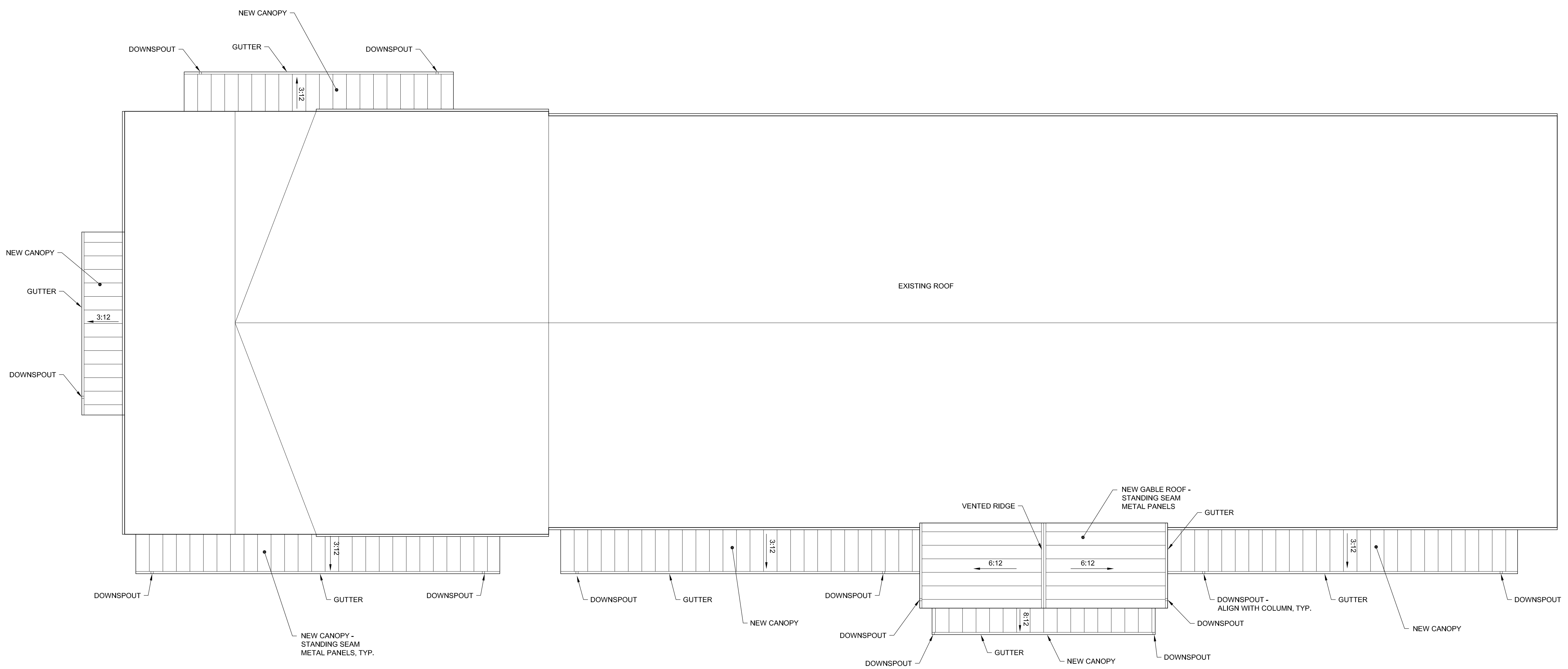
DATE
 04/02/2021

SHEET TITLE

ROOF PLAN -
 NEW WORK

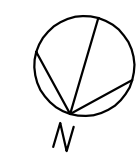
SHEET

A-3



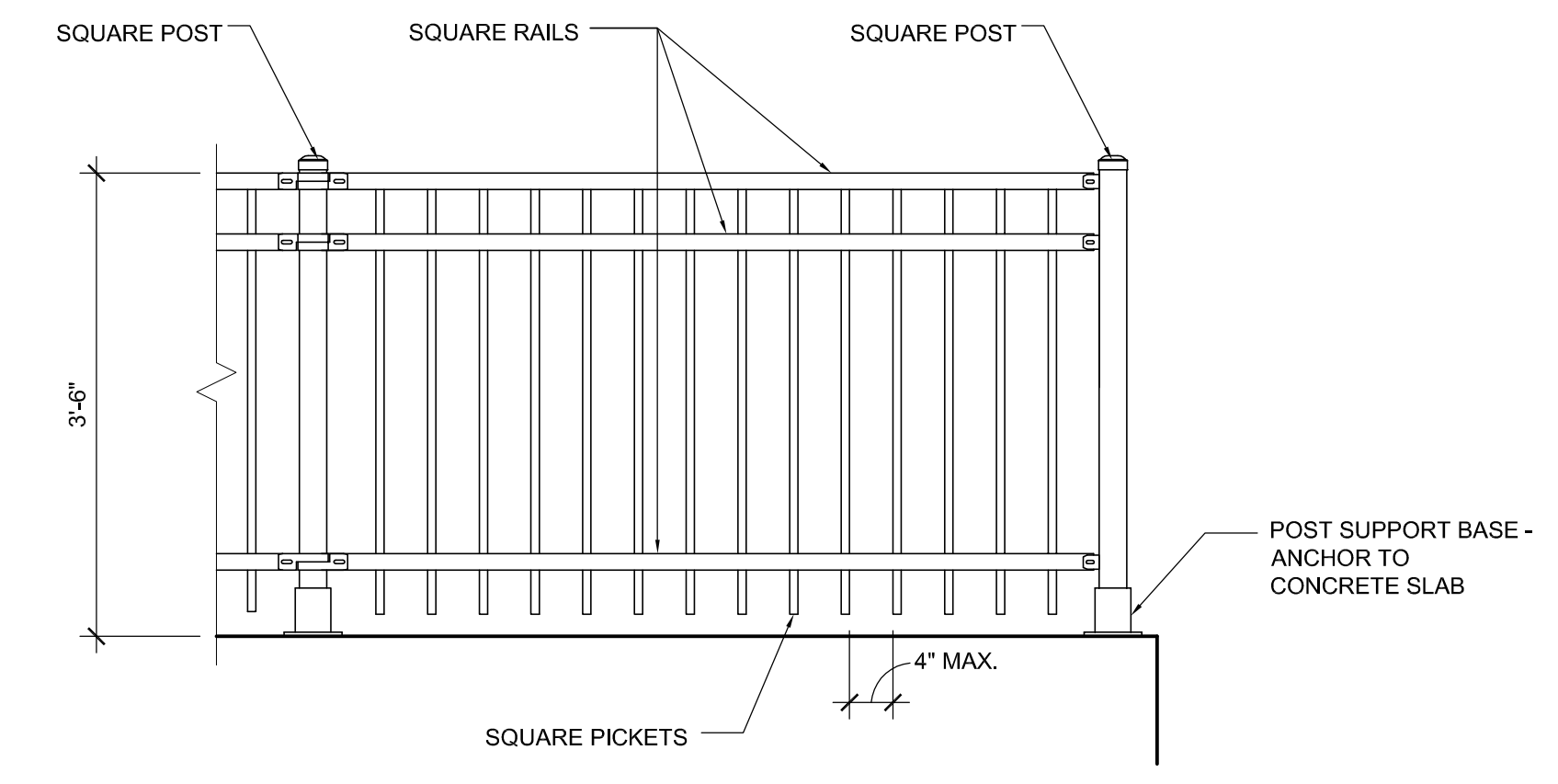
NOTE:
 CONNECT DOWNSPOUTS TO NEW UNDERGROUND DRAIN SYSTEM

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

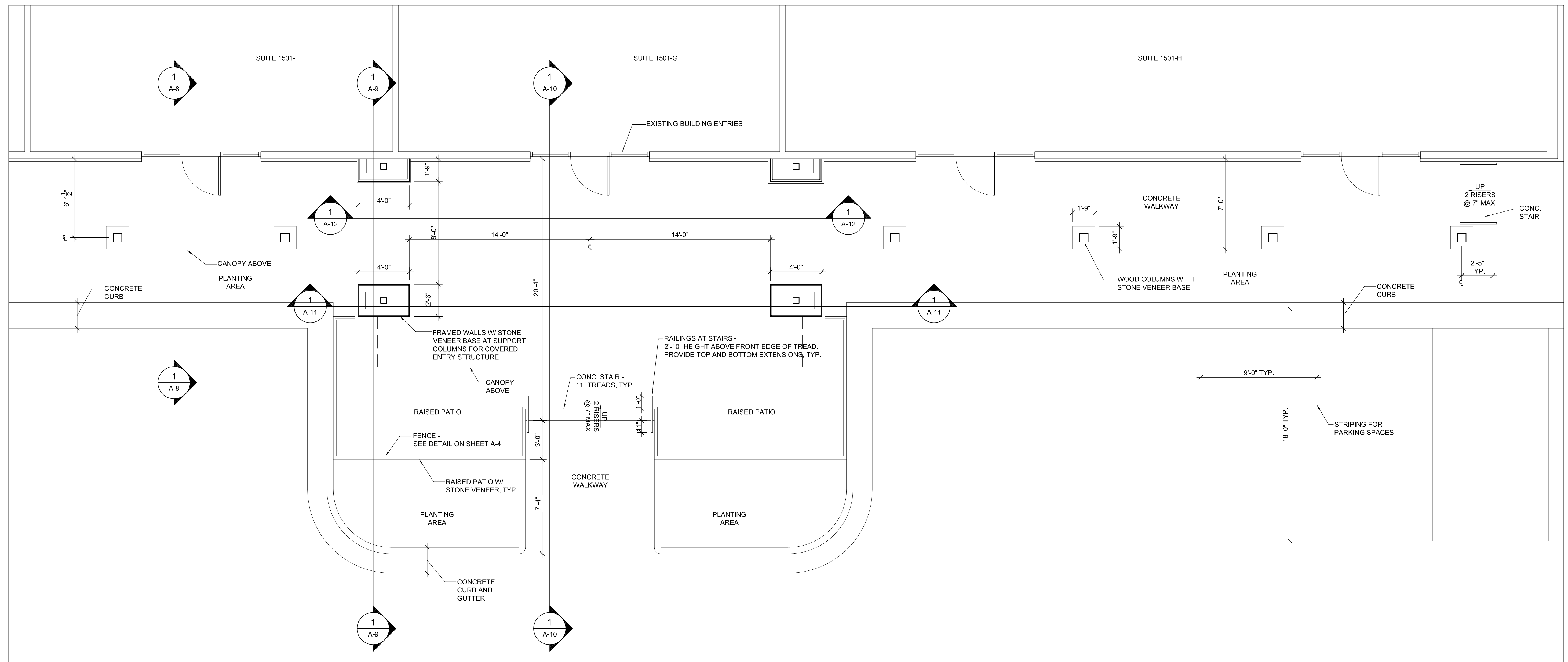


NOTE:
 1. REFER TO SHEET A-2 FOR GENERAL NOTES, DRAWING SYMBOLS AND MATERIAL FINISH SCHEDULE

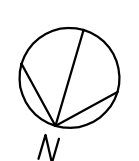
- NOTES:
- FENCE IS TO BE WELDED COMMERCIAL ORNAMENTAL GALVANIZED STEEL, BLACK COLOR.
 - THE FENCE SHALL BE DESIGNED TO RESIST A LOAD OF 50 POUNDS PER LINEAR FOOT AND A SINGLE CONCENTRATED LOAD OF 200 POUNDS.
 - THE FENCE IS TO HAVE NO OPENING GREATER THAN 4"



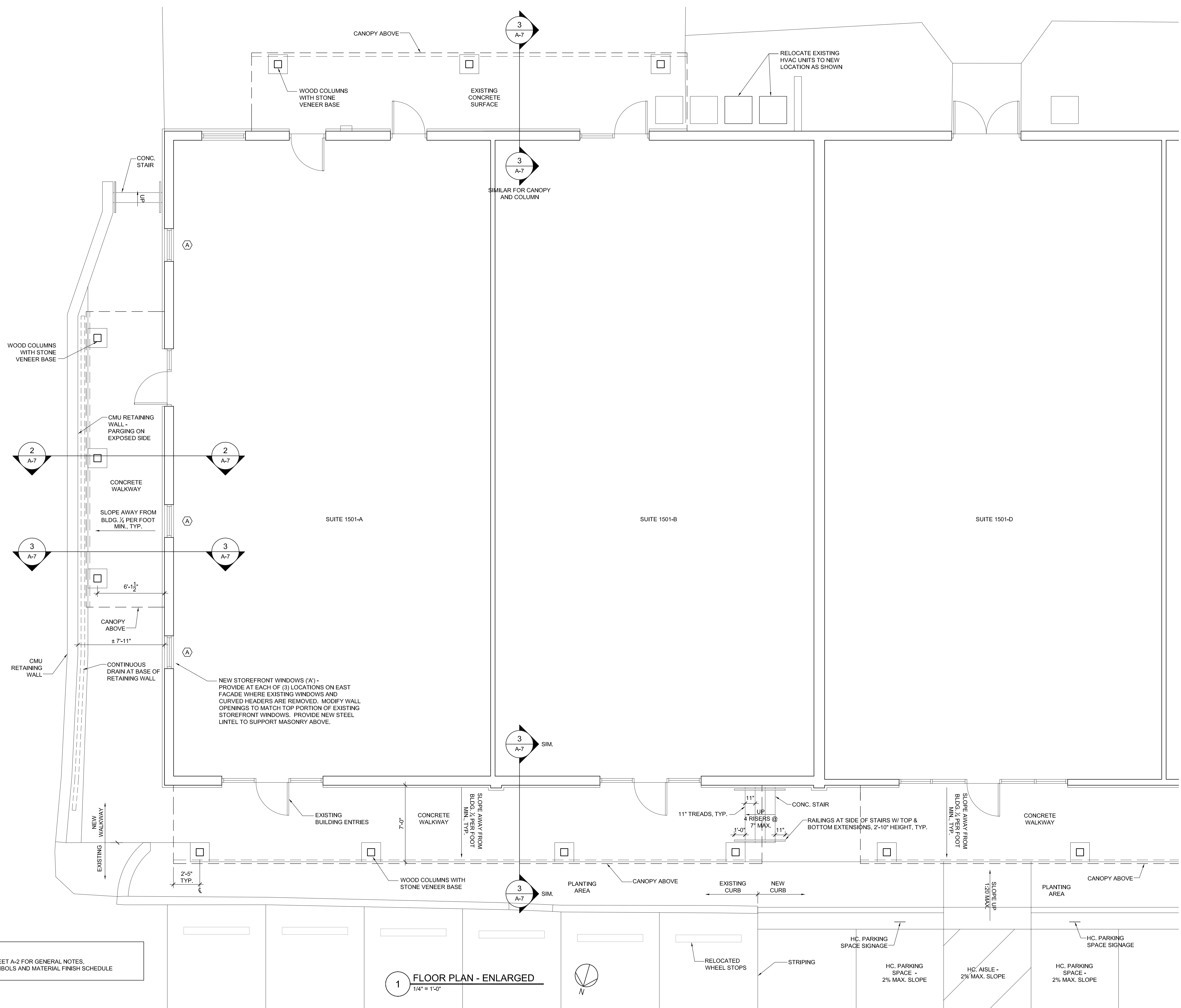
2 **DETAIL - FENCE AT RAISED PATIO**
 1/2" = 1'-0"



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"

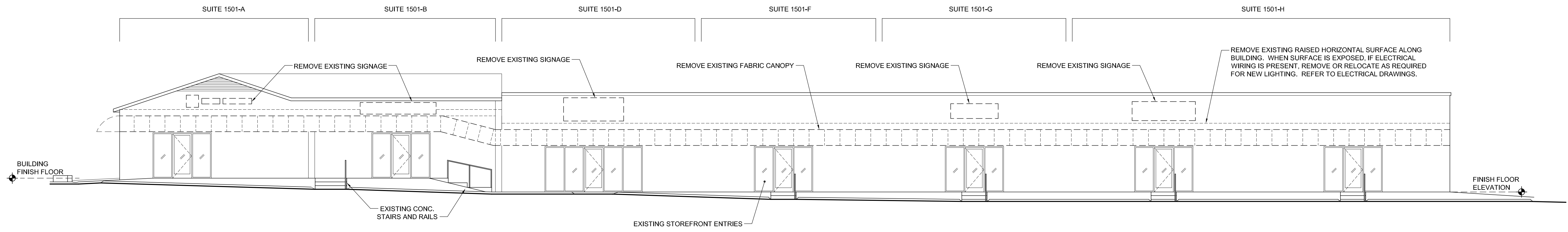
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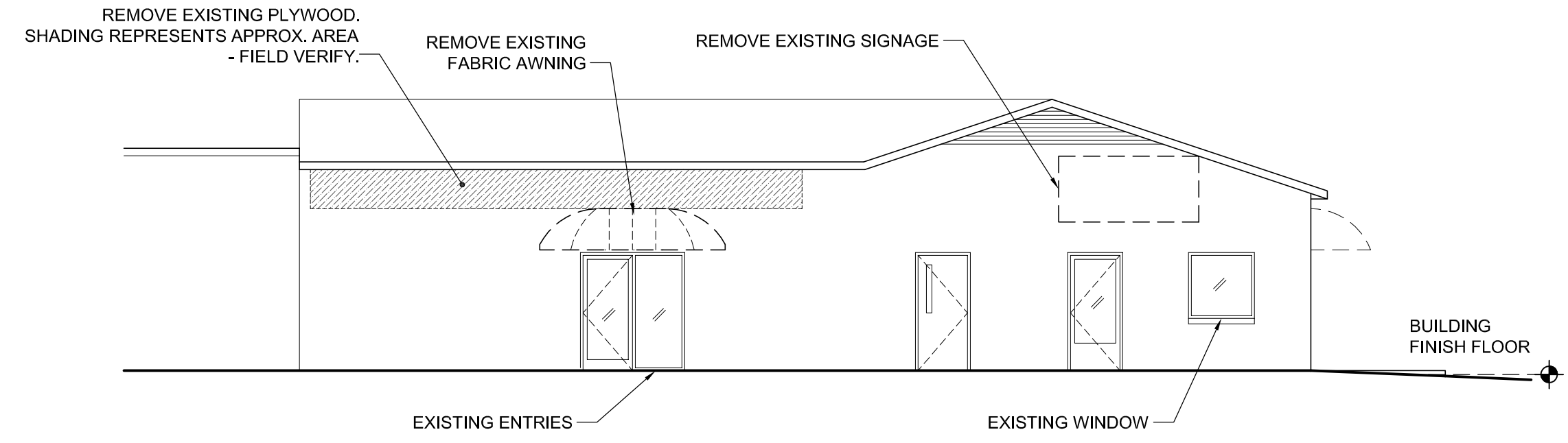
DATE
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SHEET TITLE
 FLOOR PLAN - ENLARGED

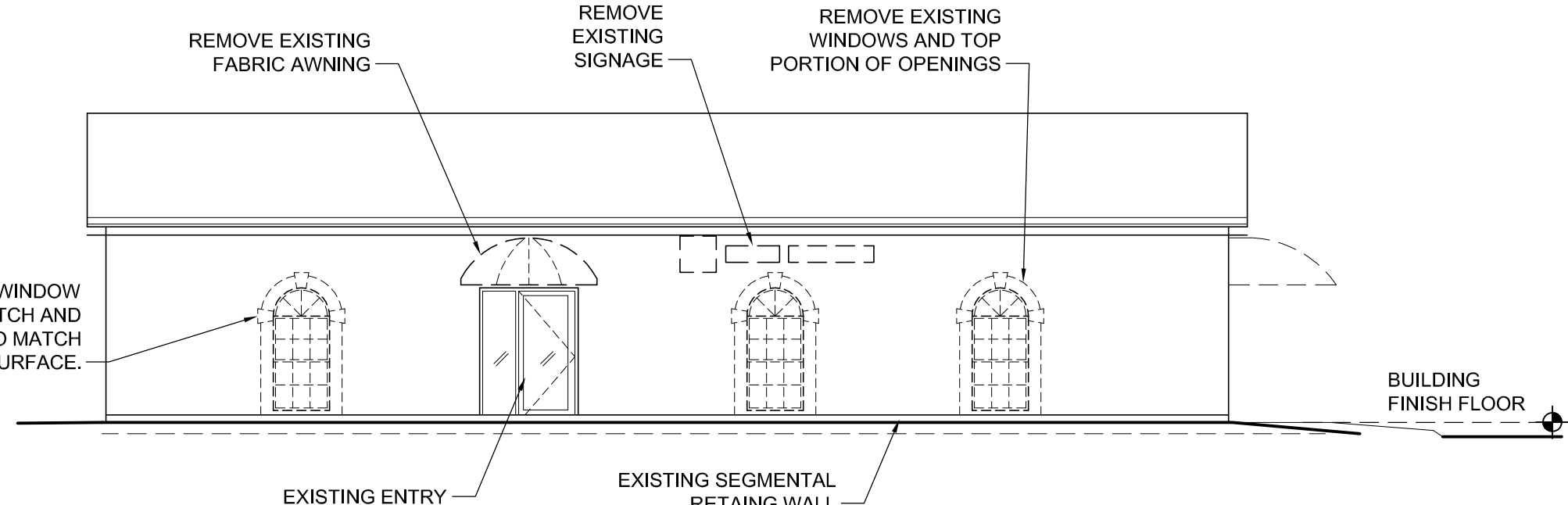
SHEET
A-5



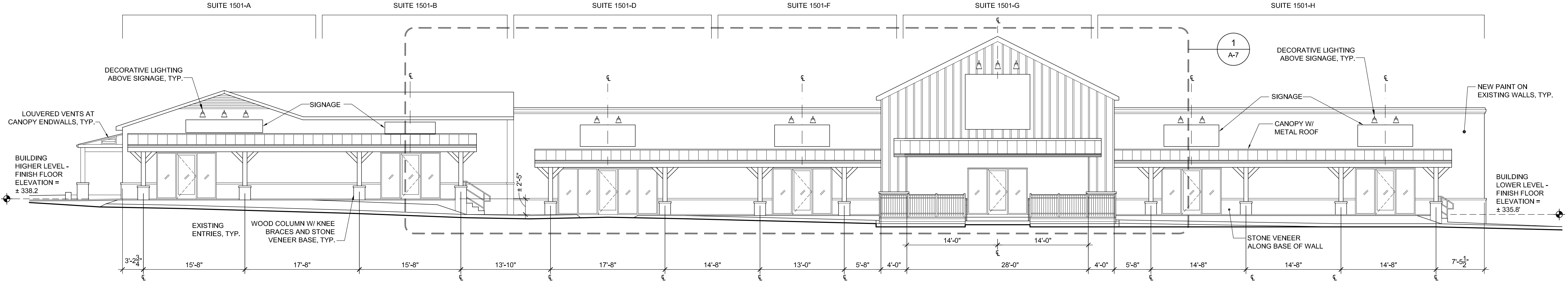
1 NORTH EXTERIOR ELEVATION - DEMOLITION
 1/8" = 1'-0"



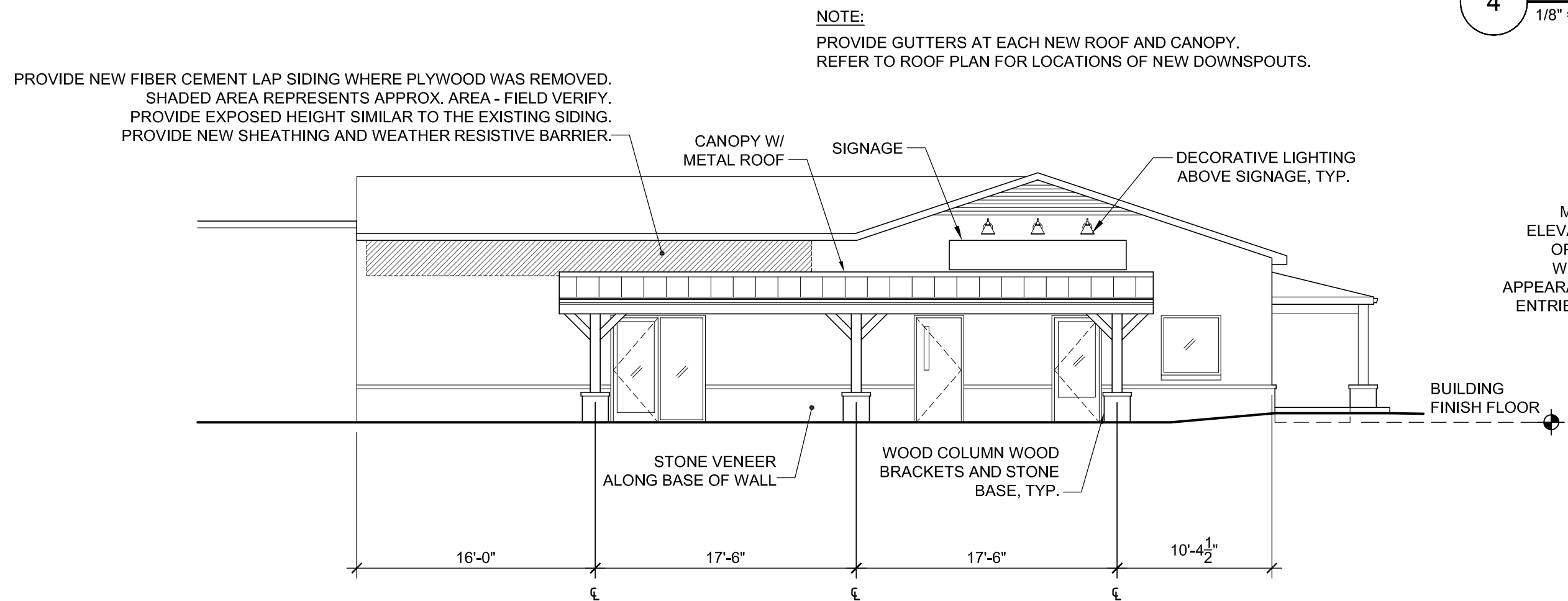
2 SOUTH EXTERIOR ELEVATION - DEMOLITION
 1/8" = 1'-0"



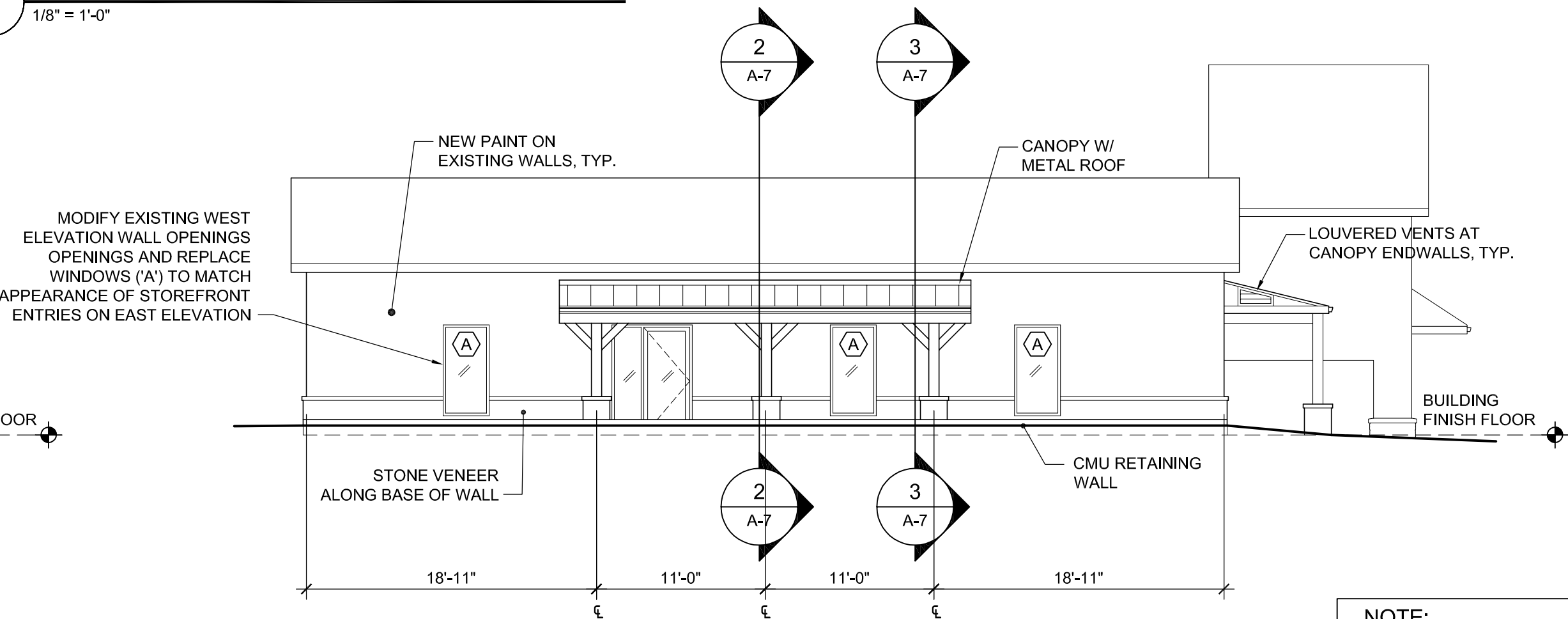
3 EAST EXTERIOR ELEVATION - DEMOLITION
 1/8" = 1'-0"



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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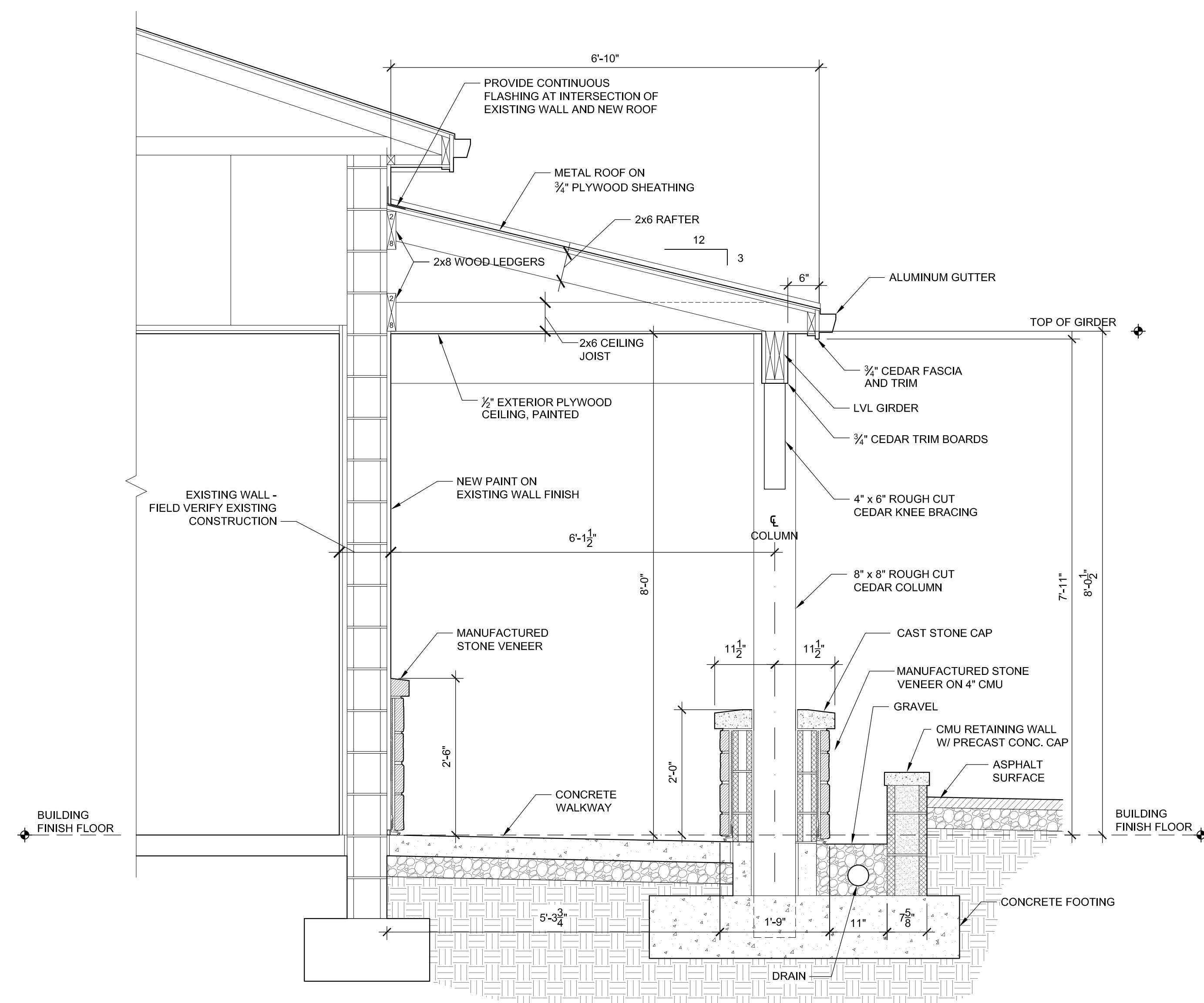
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SHEET TITLE

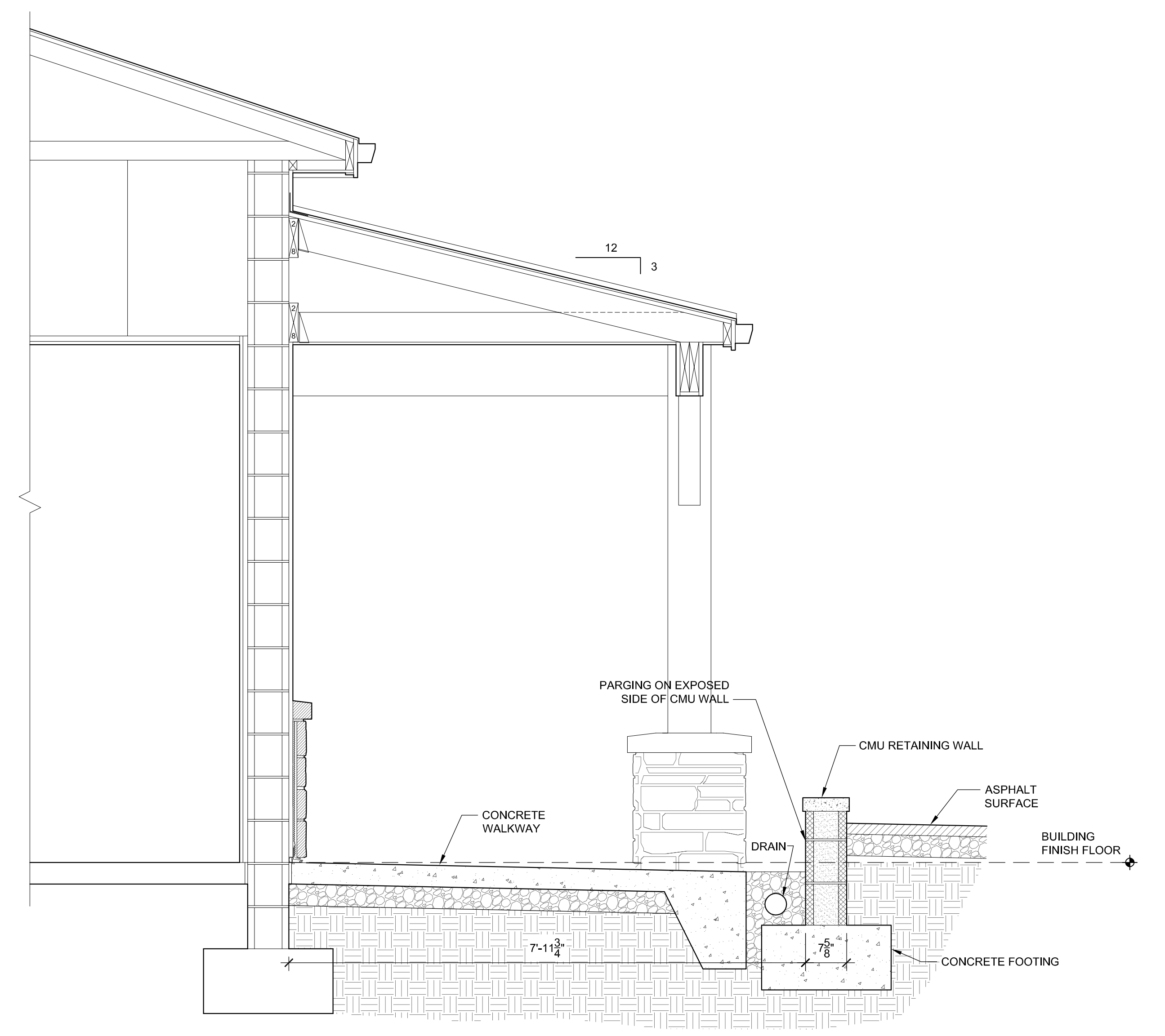
EXTERIOR ELEVATION - ENLARGED SECTIONS

SHEET

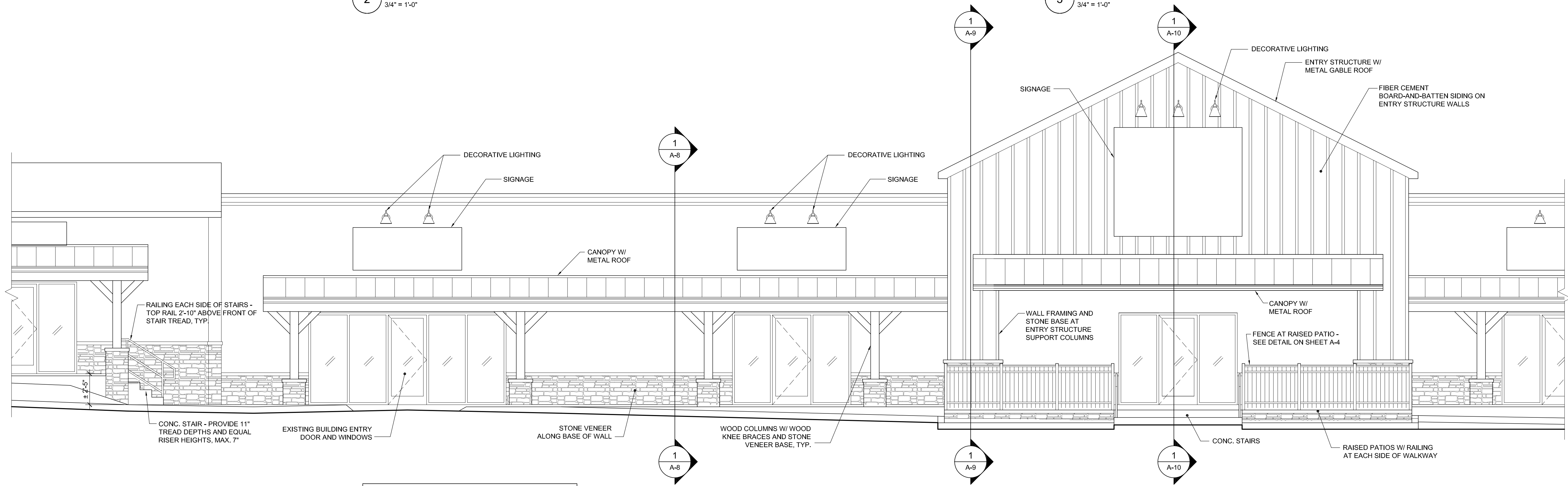
A-7



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

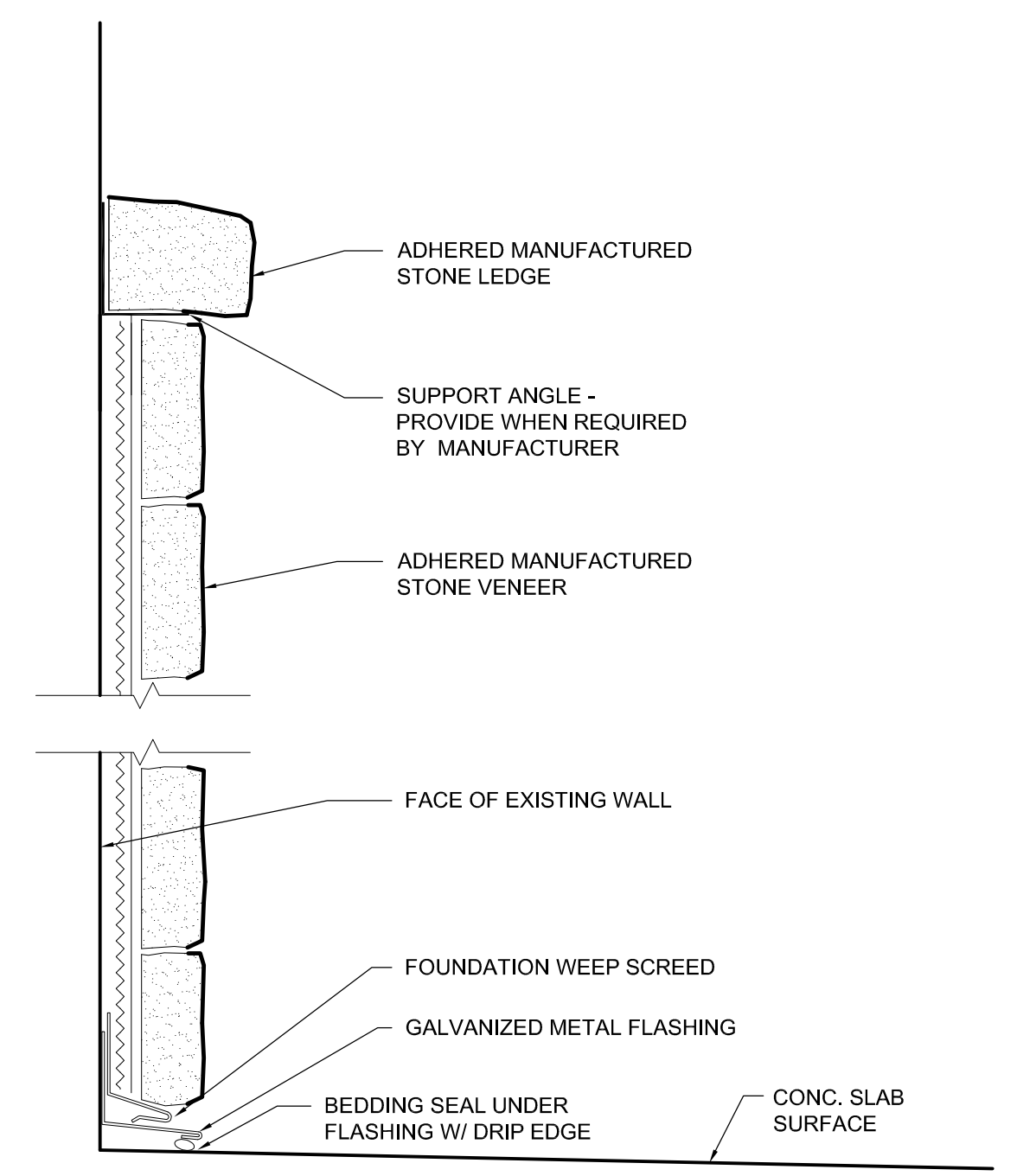
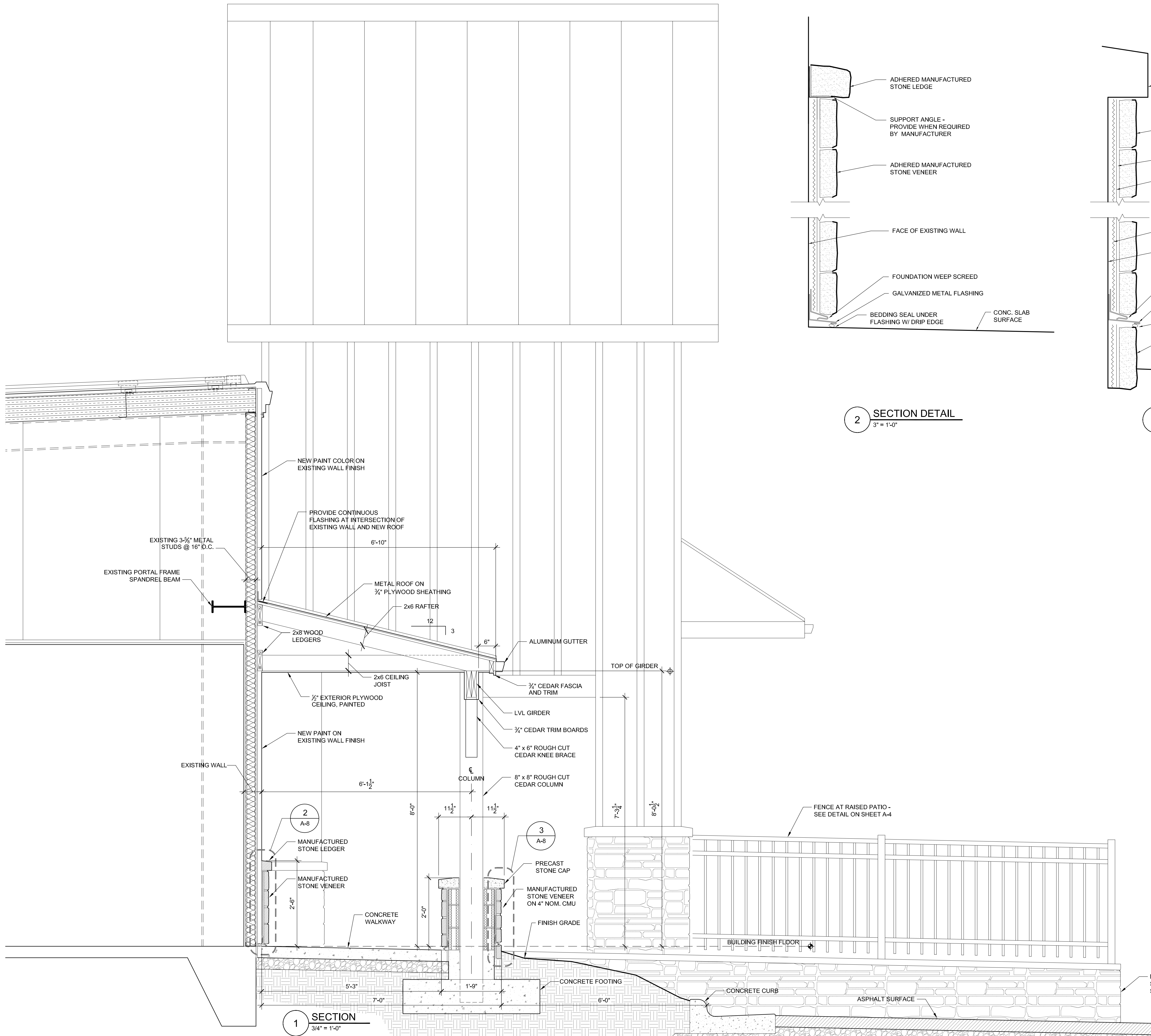


3 SECTION
 3/4" = 1'-0"

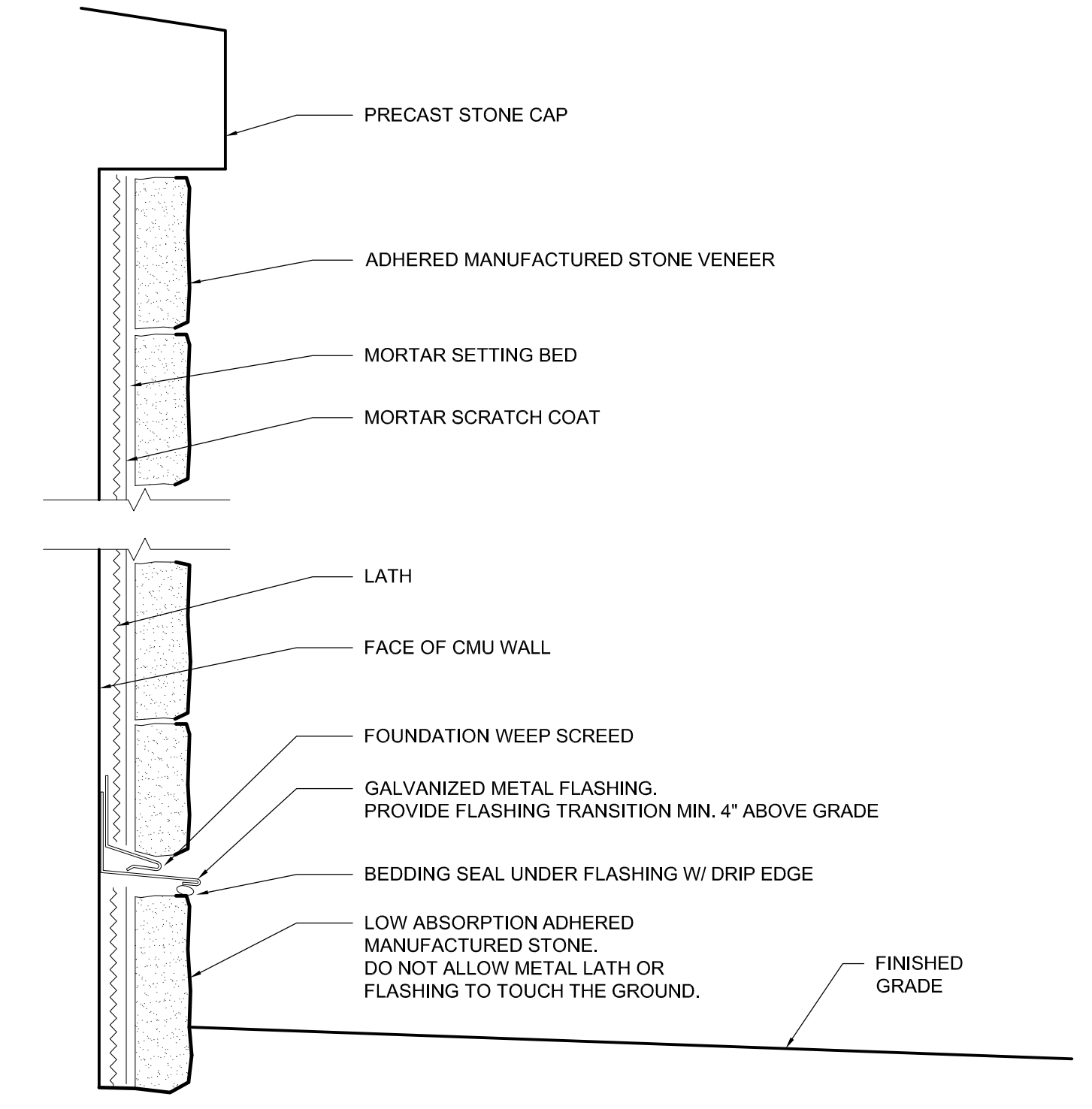


1 NORTH EXTERIOR ELEVATION - ENLARGED PORTION
 1/4" = 1'-0"

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

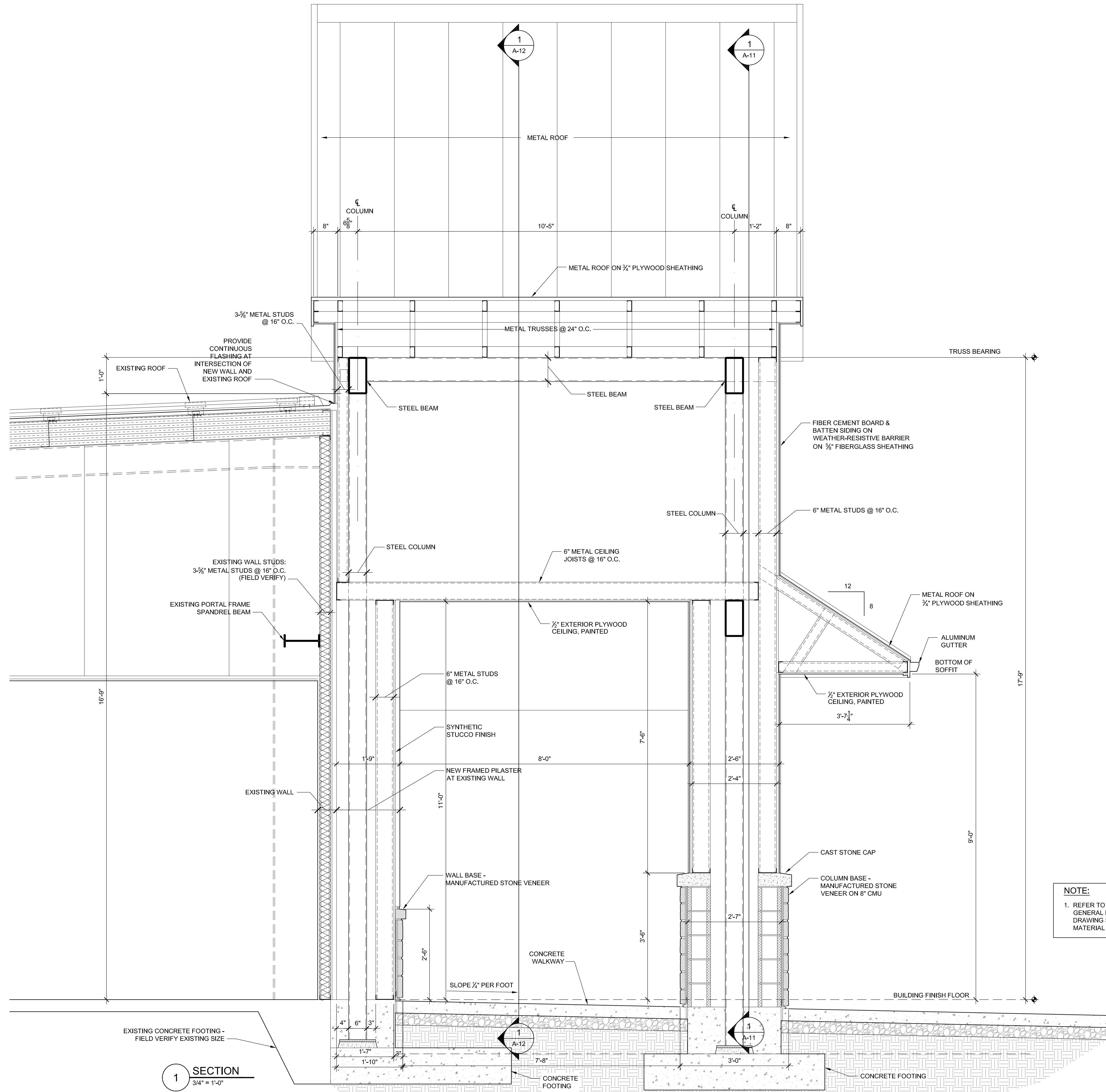


2 SECTION DETAIL
 3" = 1'-0"



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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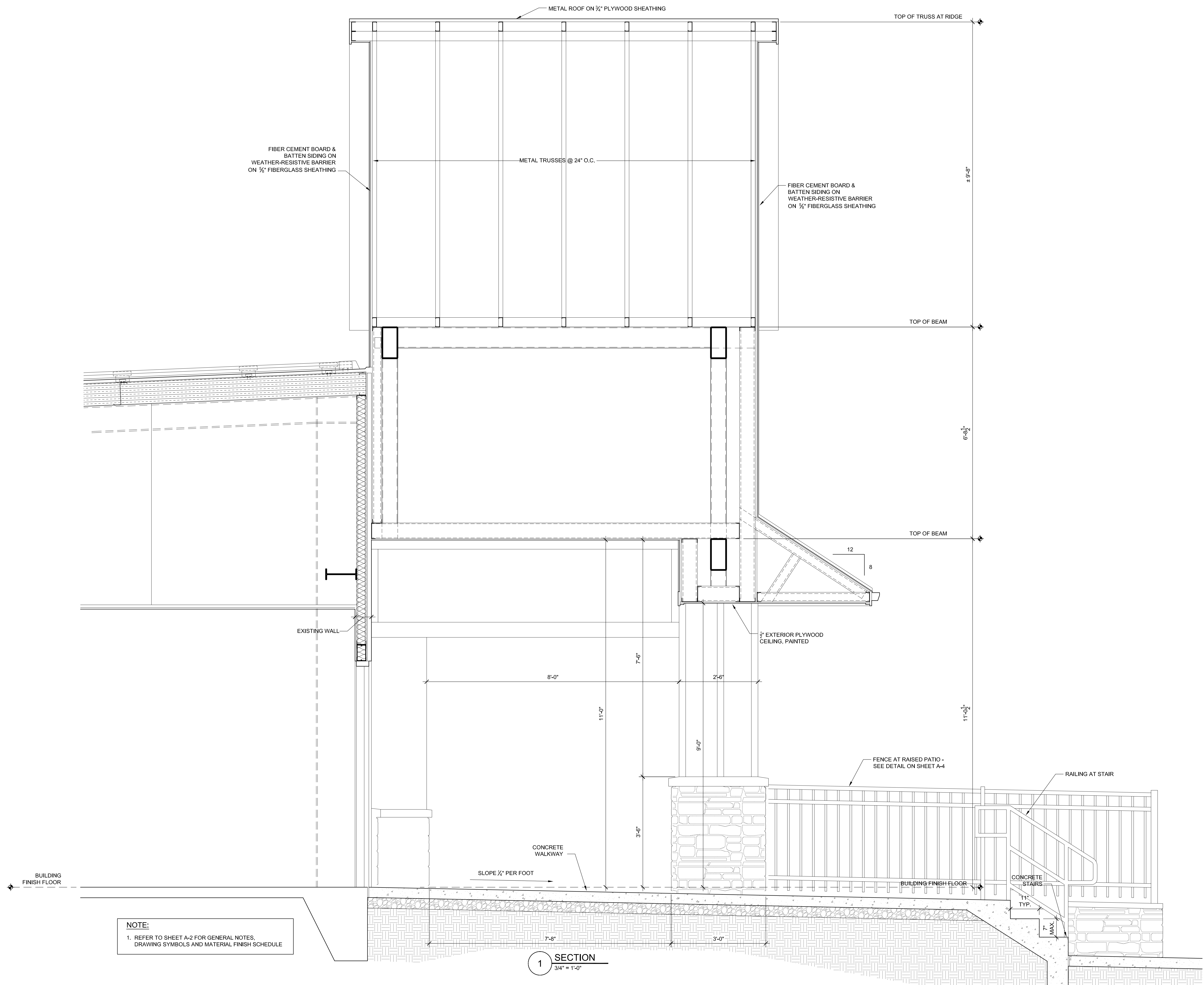
DATE
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SECTION

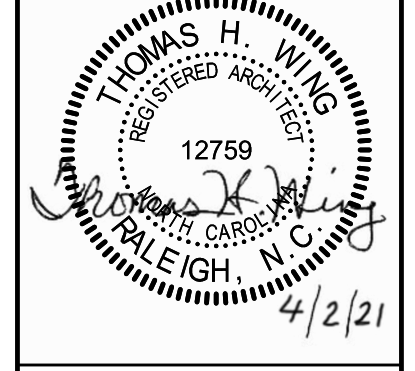
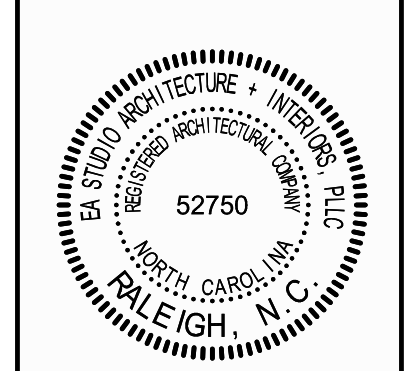
SHEET

A-9



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

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



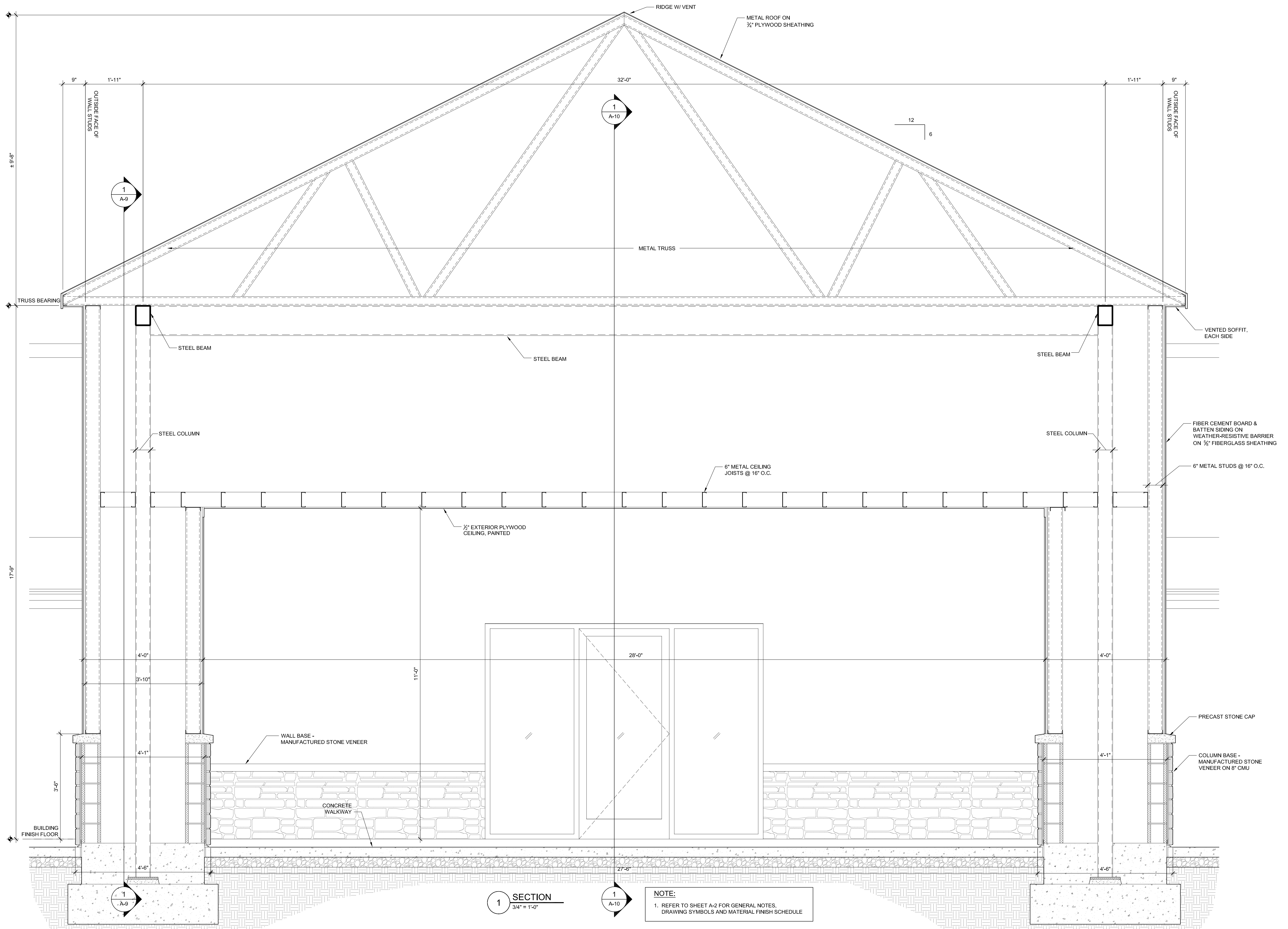
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SHEET TITLE
 SECTION

SHEET
A-10



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SHEET TITLE

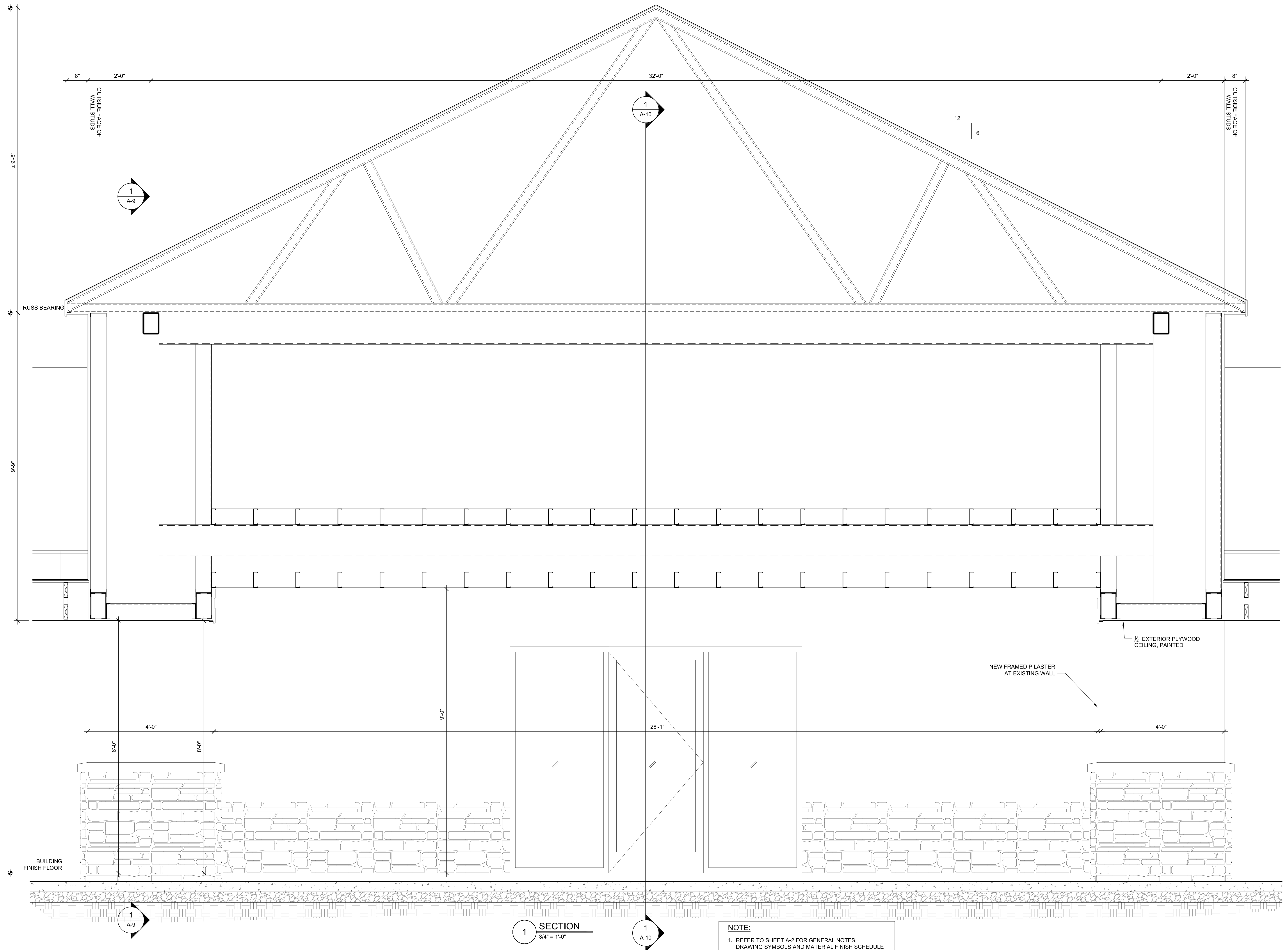
SECTION

SHEET
A-11

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

1
 A-10

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



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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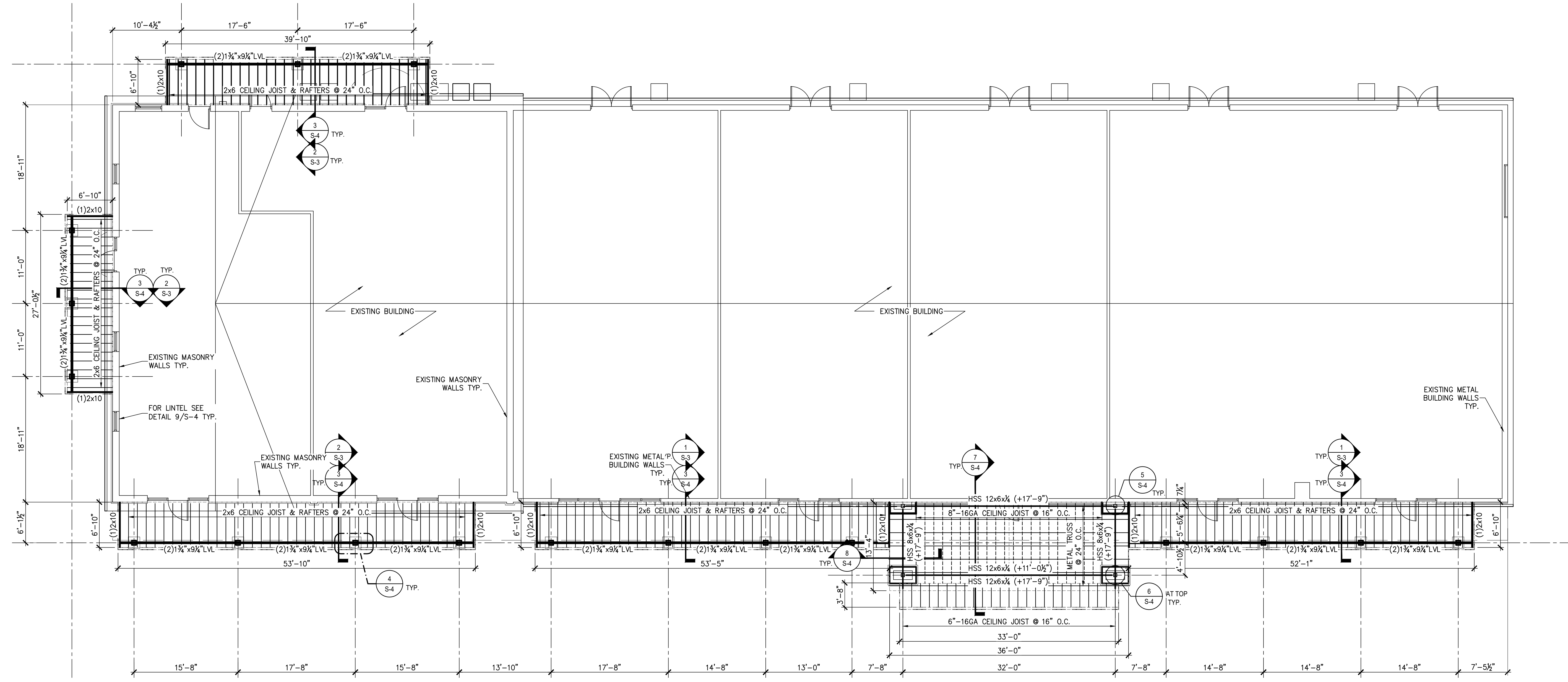
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SHEET TITLE

SECTION

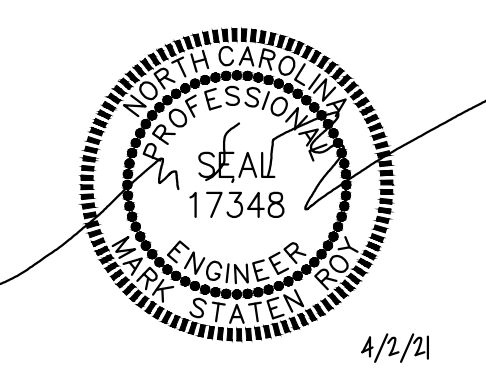
SHEET
A-12



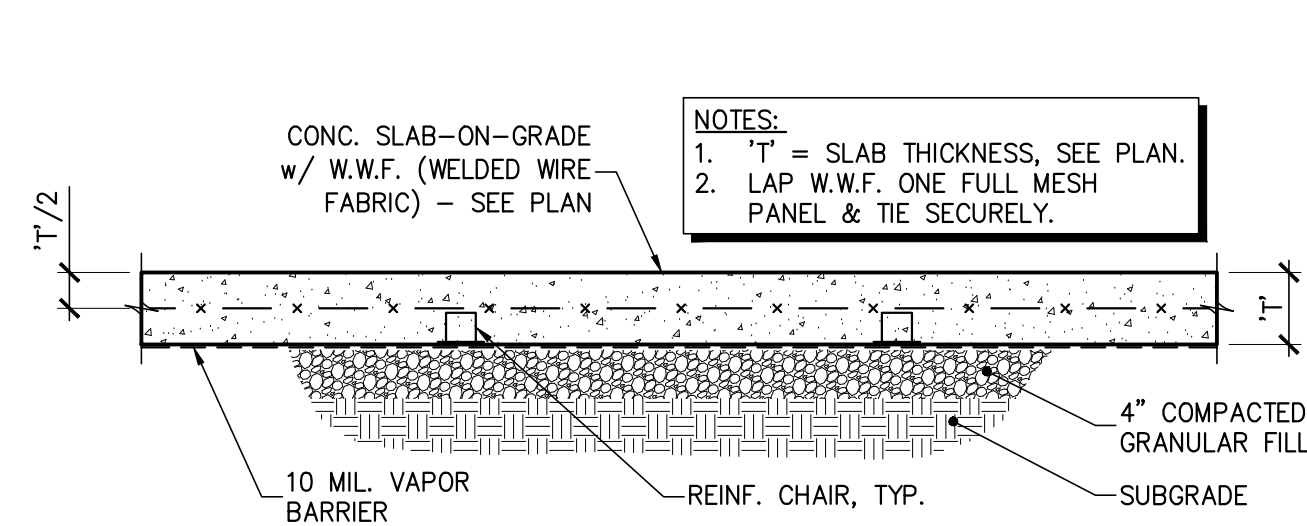
PARTIAL ROOF FRAMING PLAN
 1/8" = 1'-0"

- 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.

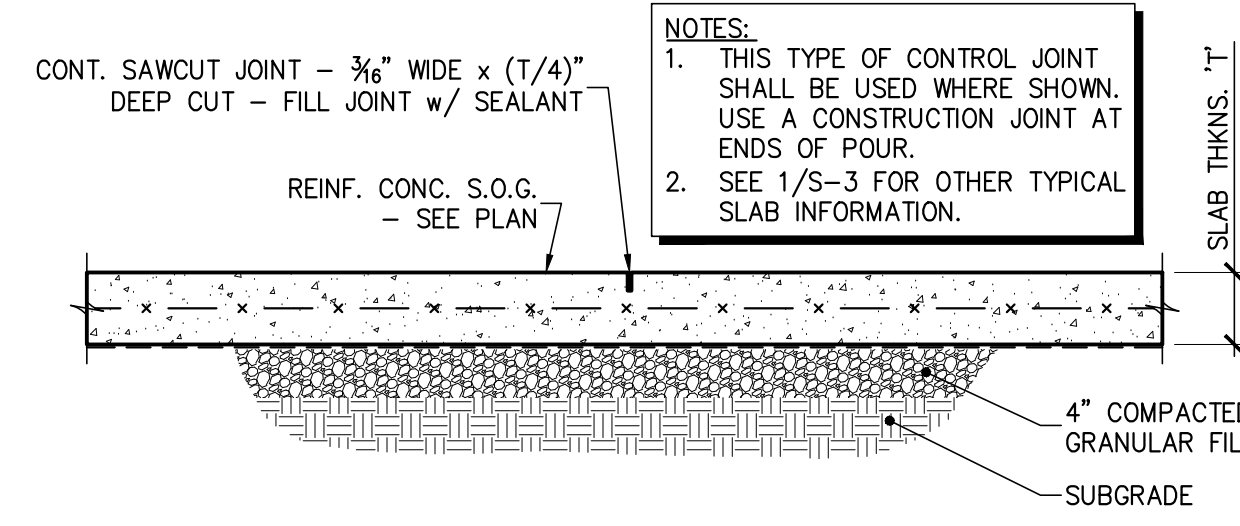
ROOF FRAMING PLAN LEGEND	
+XX'-X"	JOIST / RAFTERS BEARING ELEVATION SEE PLAN
U.N.O.	DENOTES 'UNLESS NOTED OTHERWISE'



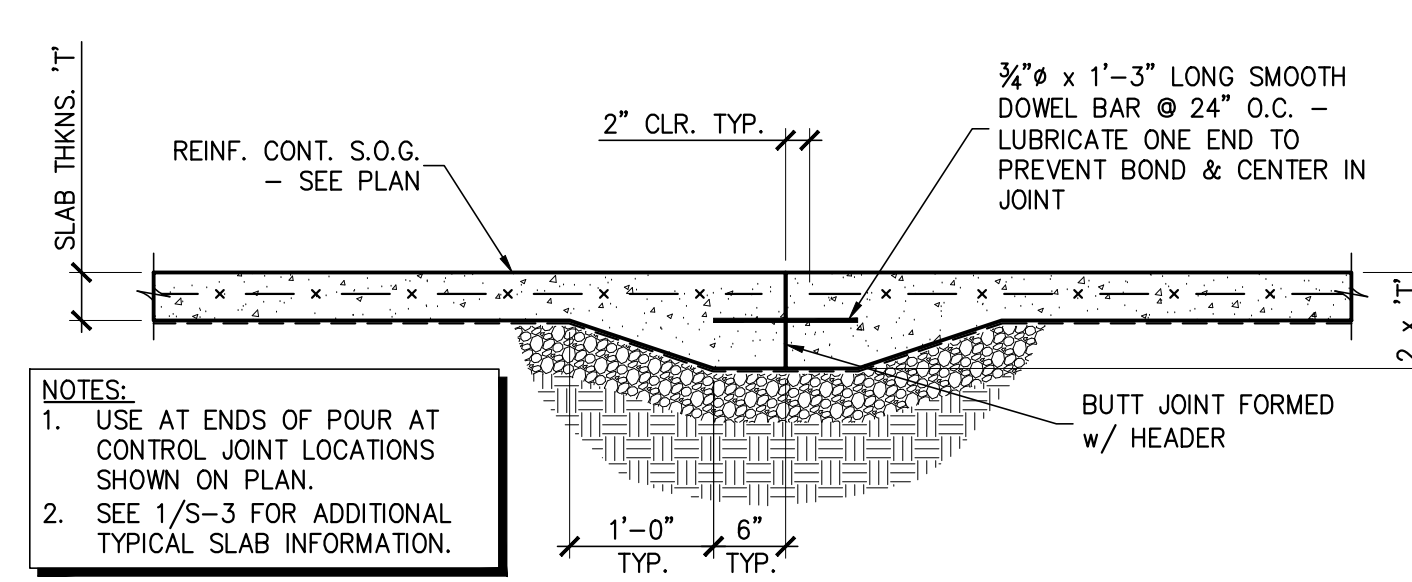
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 102 Regency Blvd. Phone: 252-321-6027
 Suite A1 Fax: 252-355-2179
 Greenville, NC 27834
 RPA Project No.: 2021093



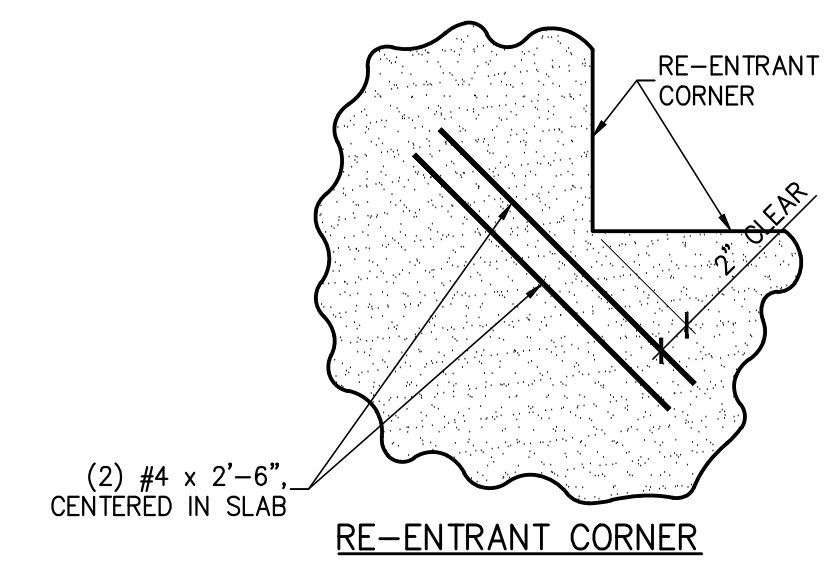
1 SECTION - TYP. SLAB ON GRADE
 S-3 3/4" = 1'-0"



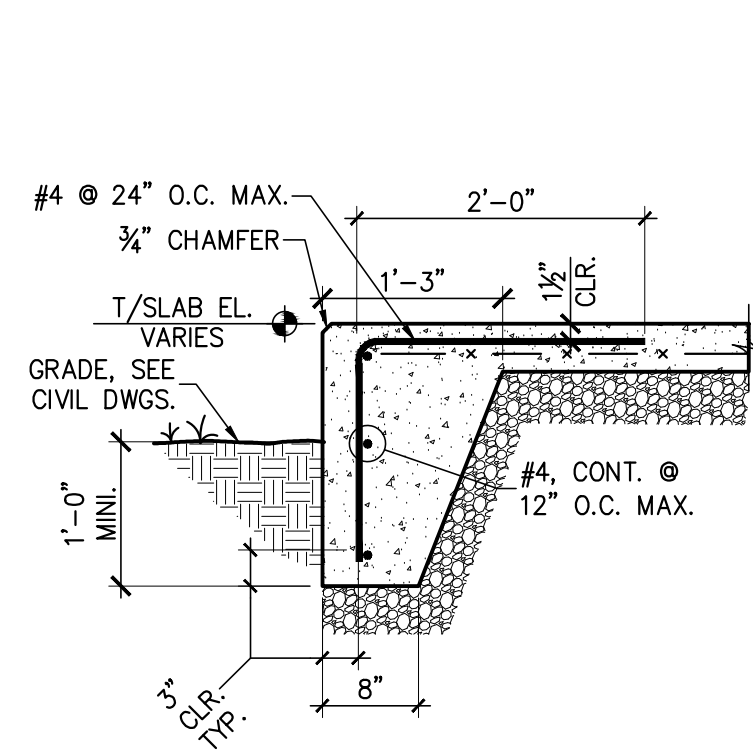
2 SECTION - TYP. CONTROL JOINT
 S-3 3/4" = 1'-0"



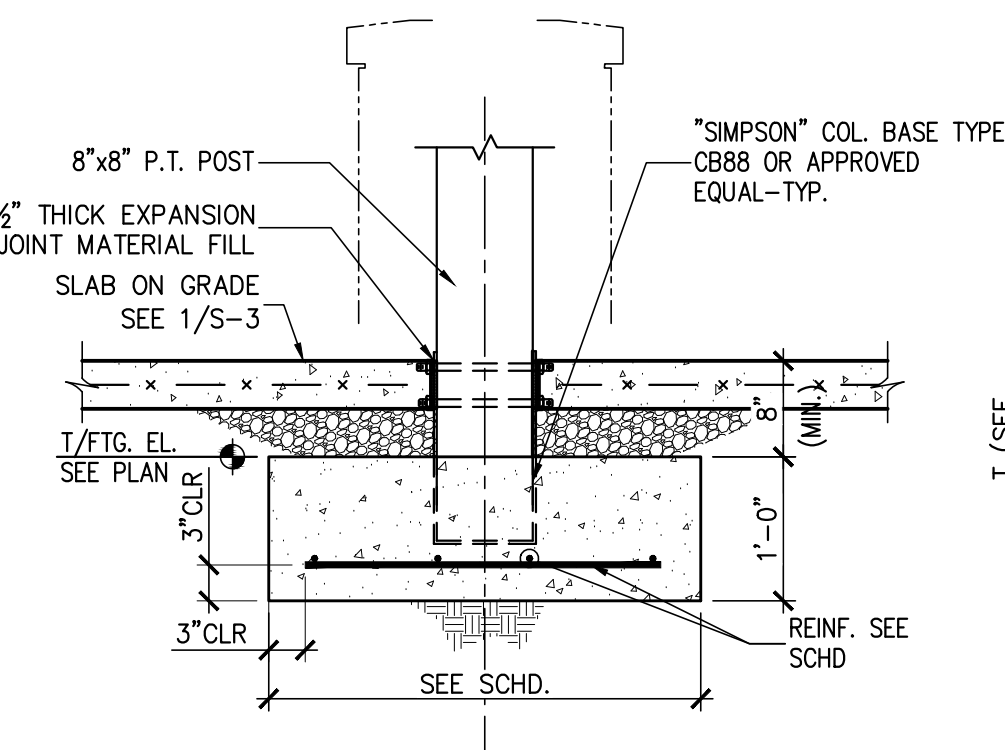
3 SECTION - TYP. CONSTRUCTION JOINT
 S-3 3/4" = 1'-0"



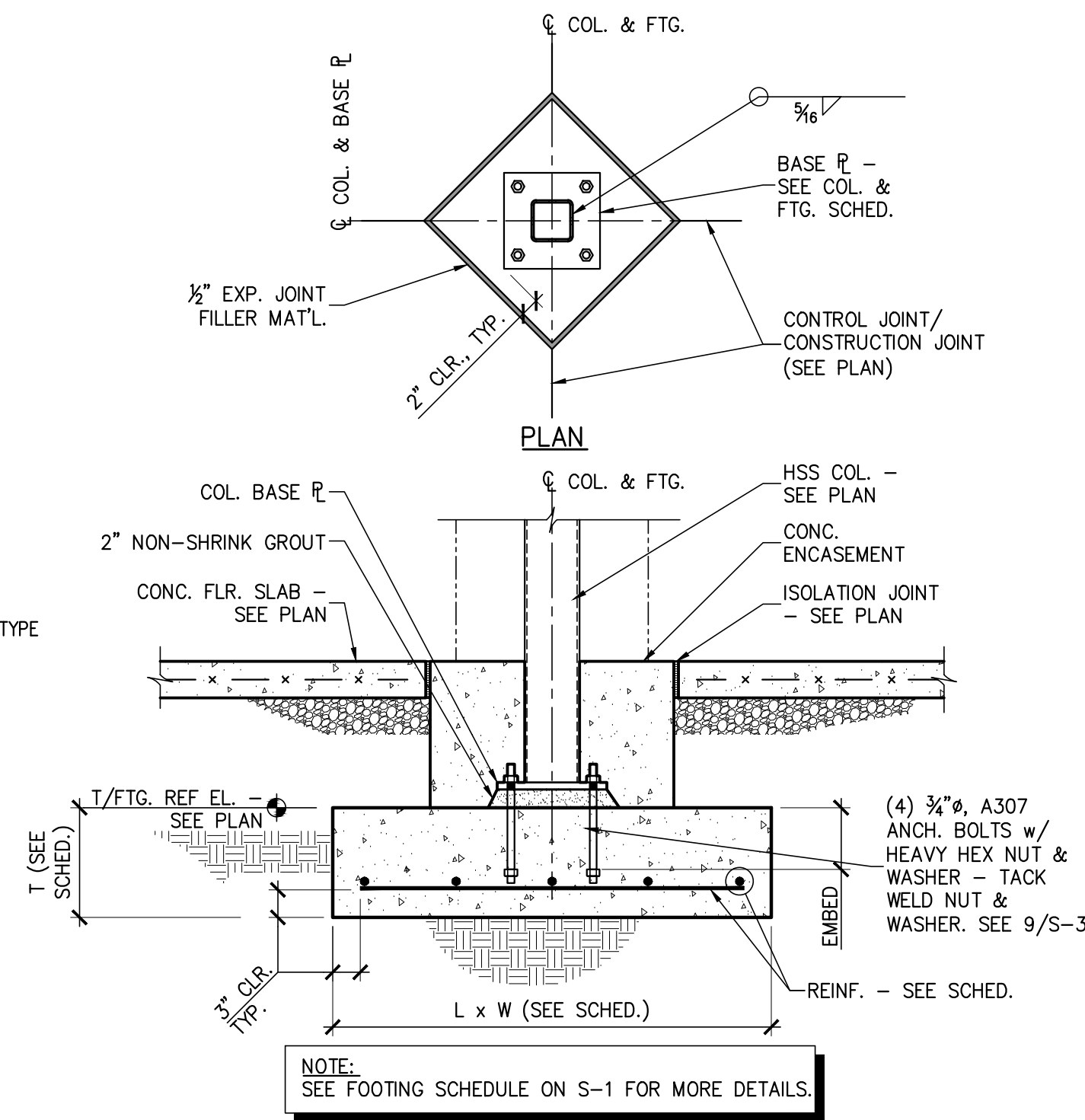
4 DETAIL - TYP. REINF. @ SLAB CORNERS
 S-3 3/4" = 1'-0"



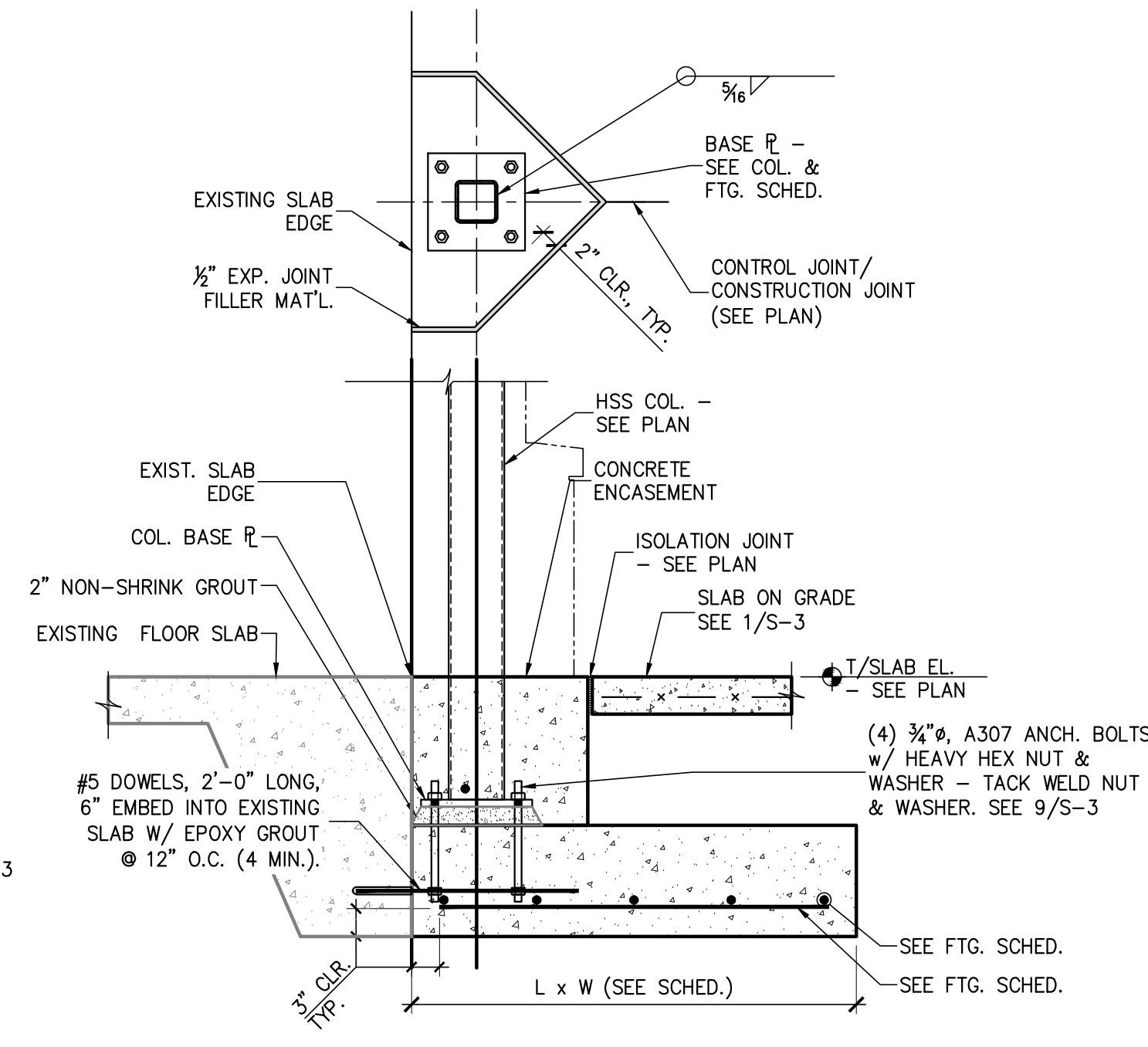
5 SECTION - TYP. SLAB EDGE W/ TURN-DOWN
 S-3 3/4" = 1'-0"



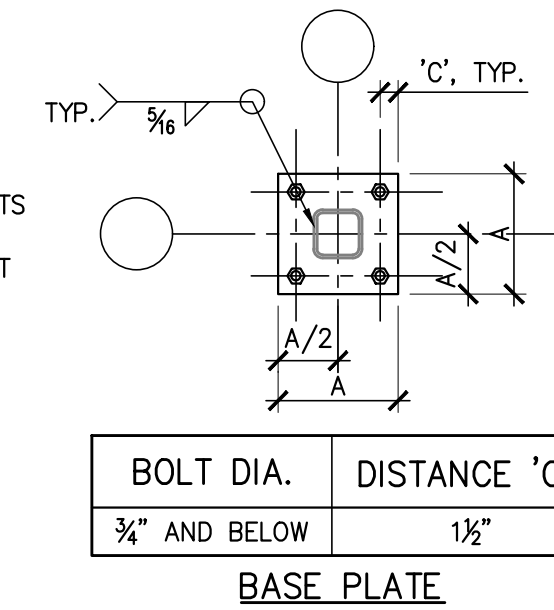
6 WOOD COLUMN FOOTING - SECTION
 S-3 3/4" = 1'-0"



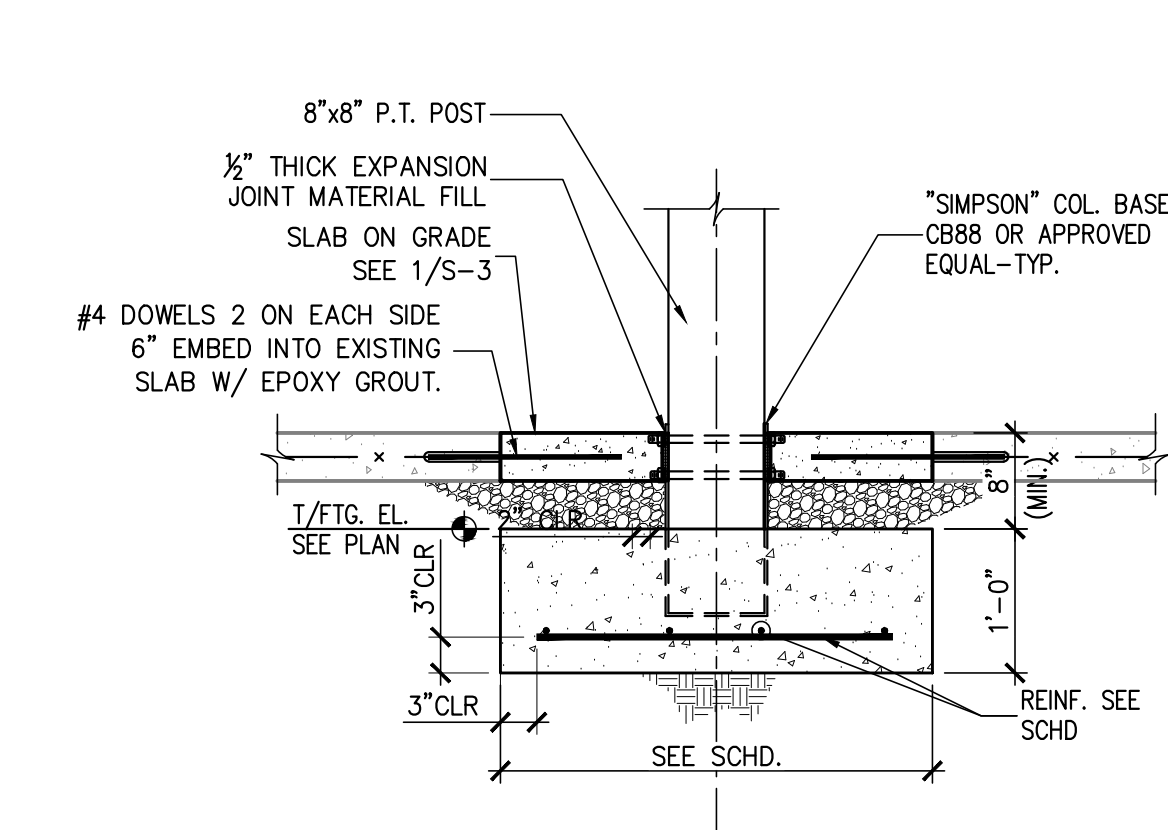
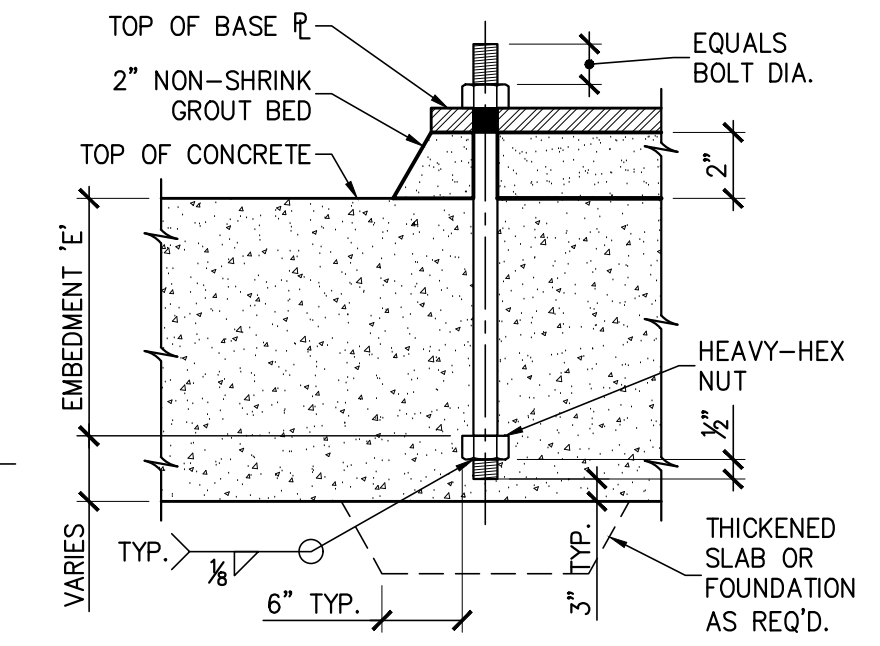
7 SECTION - TYP. INTERIOR HSS COL. FTG.
 S-3 3/4" = 1'-0"



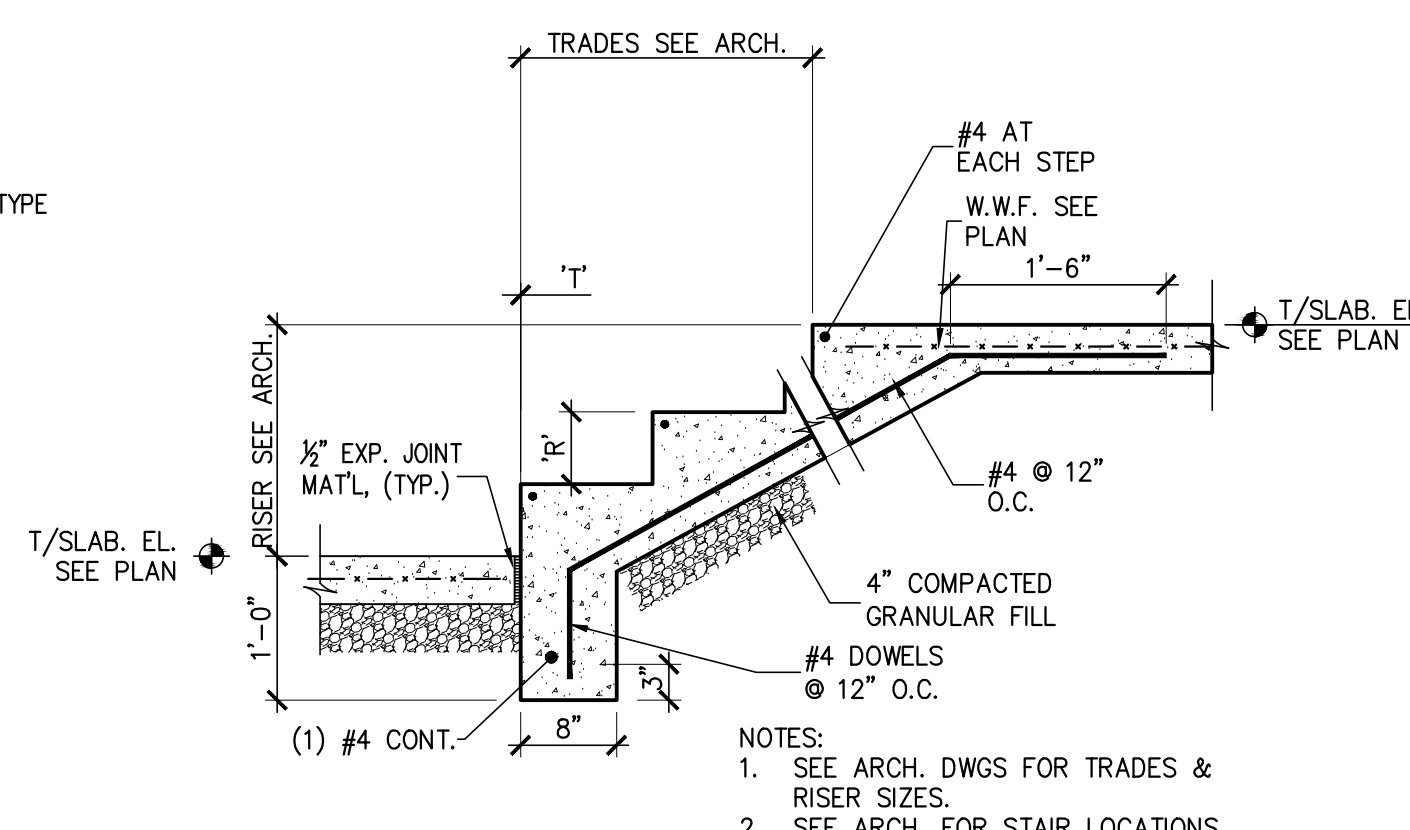
8 SECTION - TYP. EXTERIOR HSS COL. FTG.
 S-3 3/4" = 1'-0"



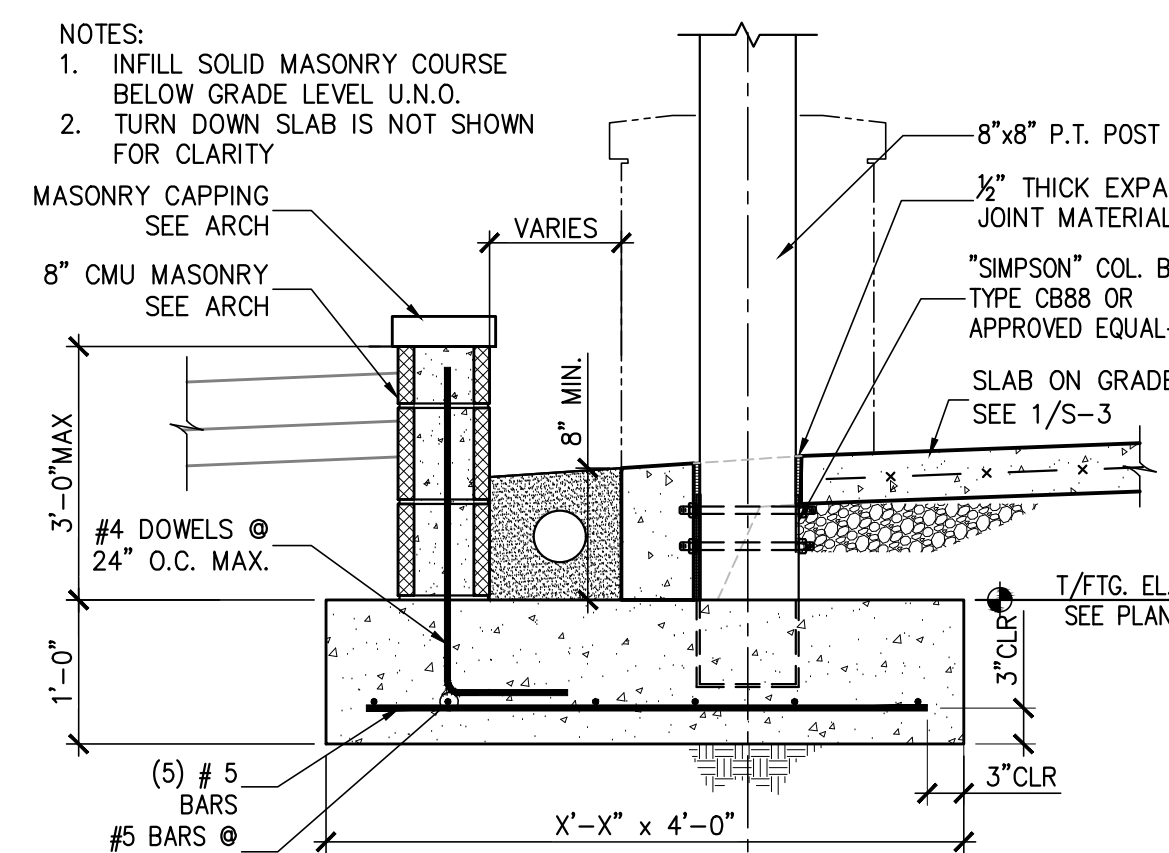
9 TYP. ANCHOR BOLT & BASE PLATE DETAIL
 S-3 3/4" = 1'-0"



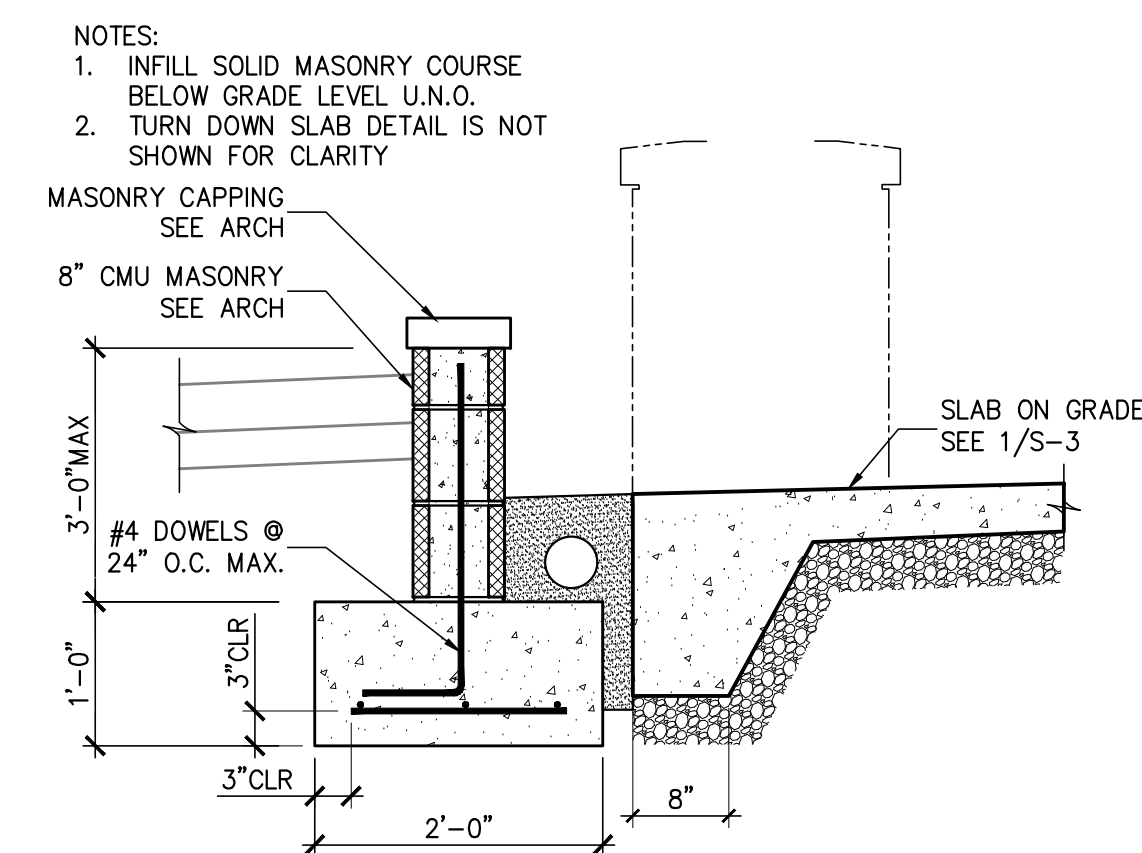
10 WOOD COLUMN FOOTING - SECTION
 S-3 3/4" = 1'-0"



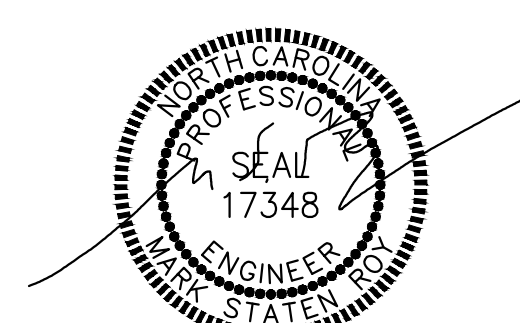
11 SECTION @ EXTERIOR STAIRS
 S-3 3/4" = 1'-0"



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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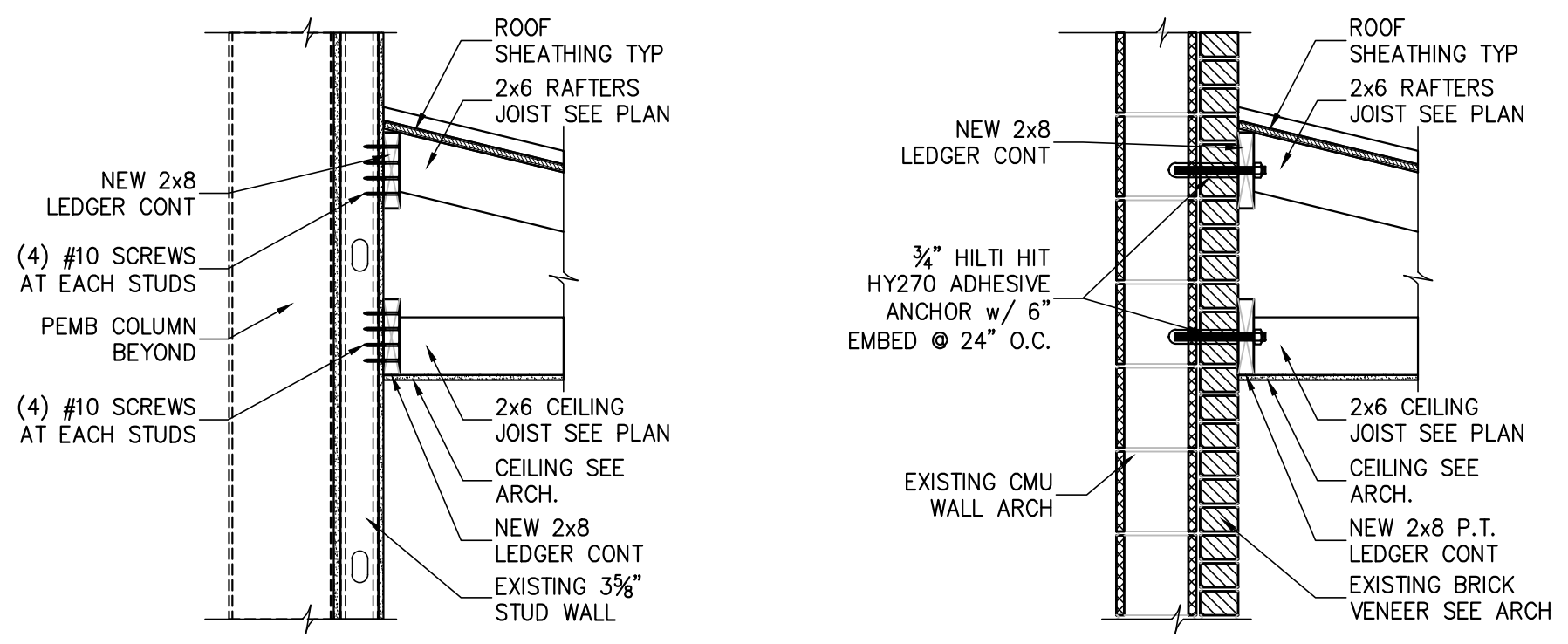
DATE
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SHEET TITLE

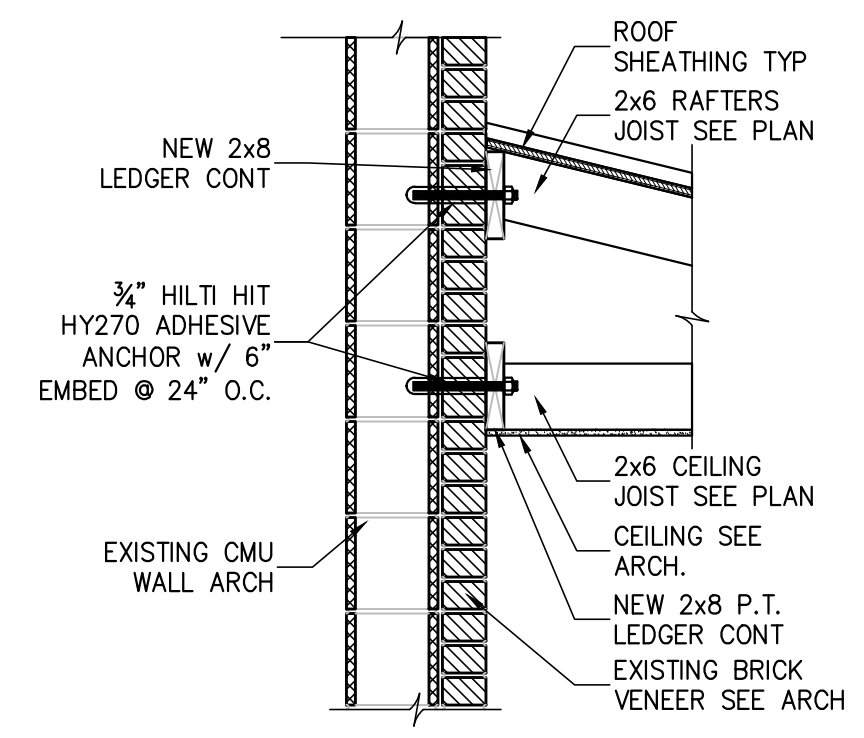
FOUNDATION
 DETAILS &
 SECTIONS

SHEET

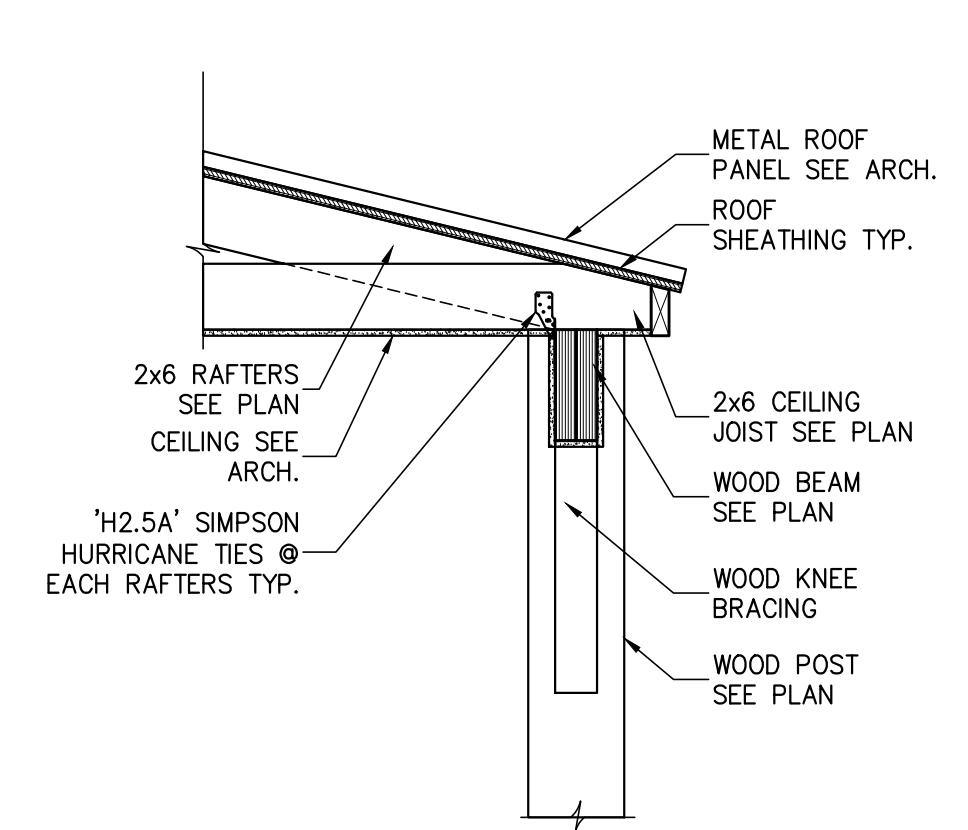
S-3



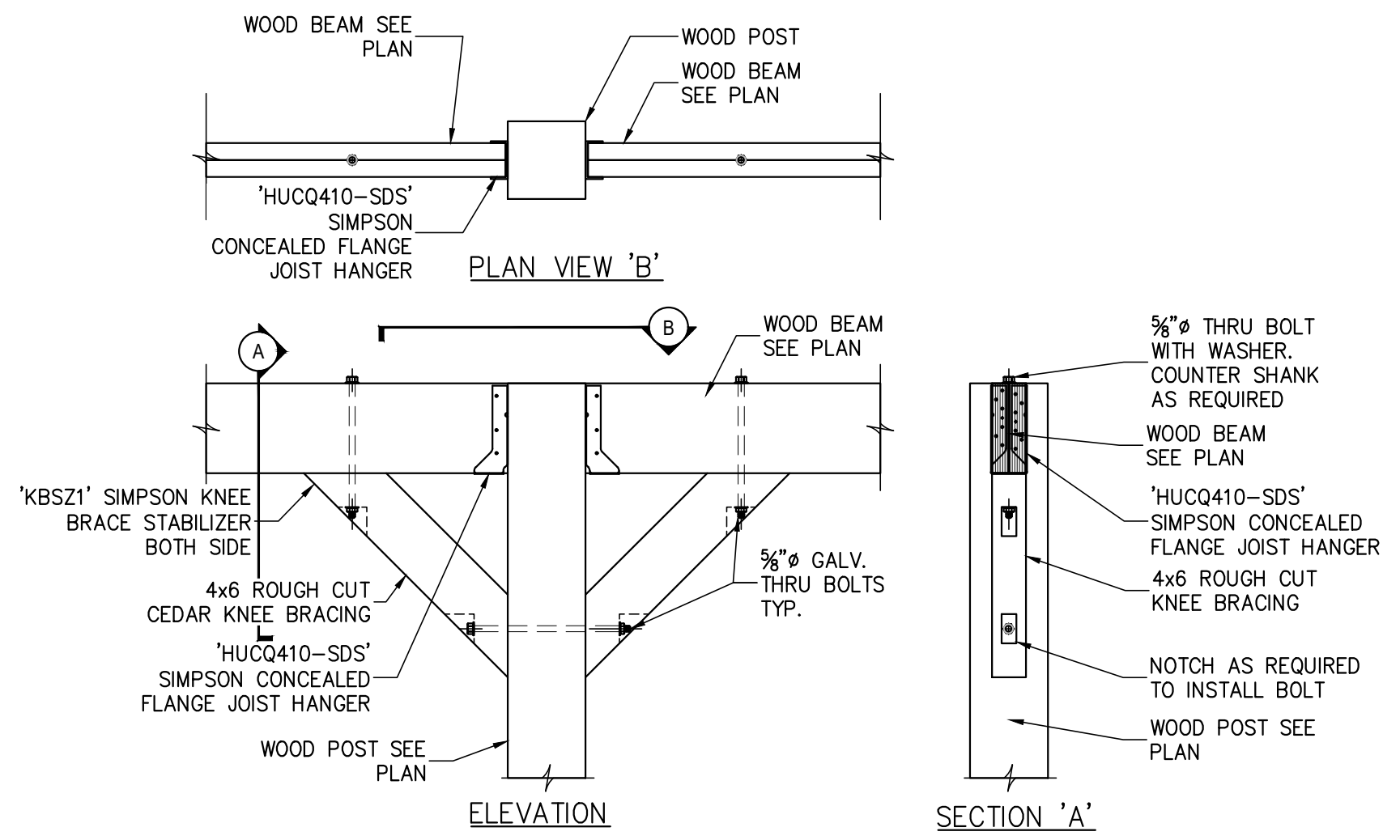
1 ROOF CONN. AT EXIST. WALL
 S-4 3/4" = 1'-0"



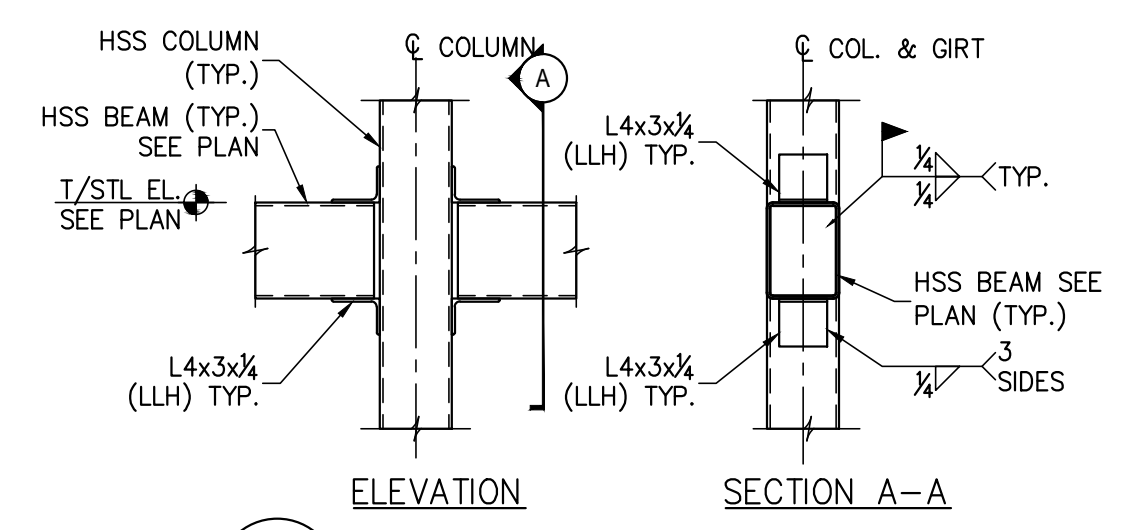
2 ROOF CONN. AT EXIST. WALL
 S-4 3/4" = 1'-0"



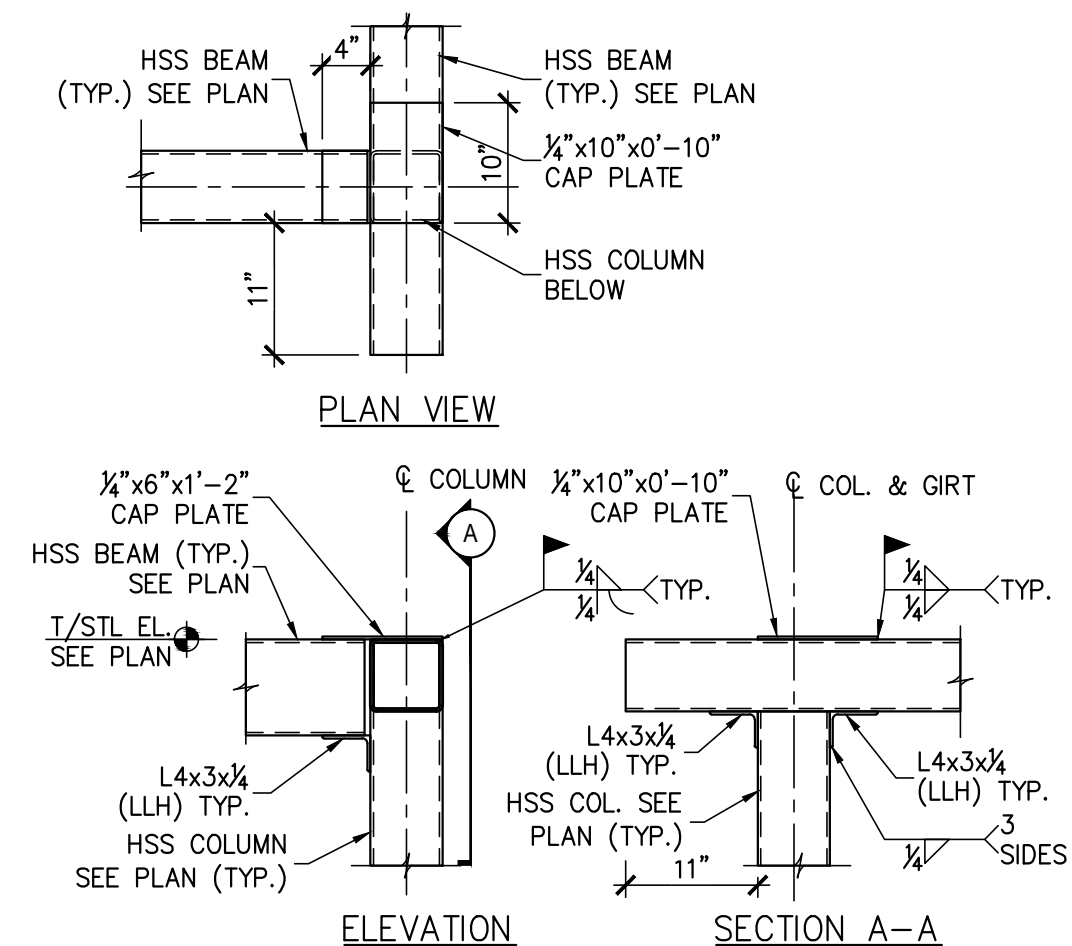
3 ROOF CONN. AT WOOD POST
 S-4 3/4" = 1'-0"



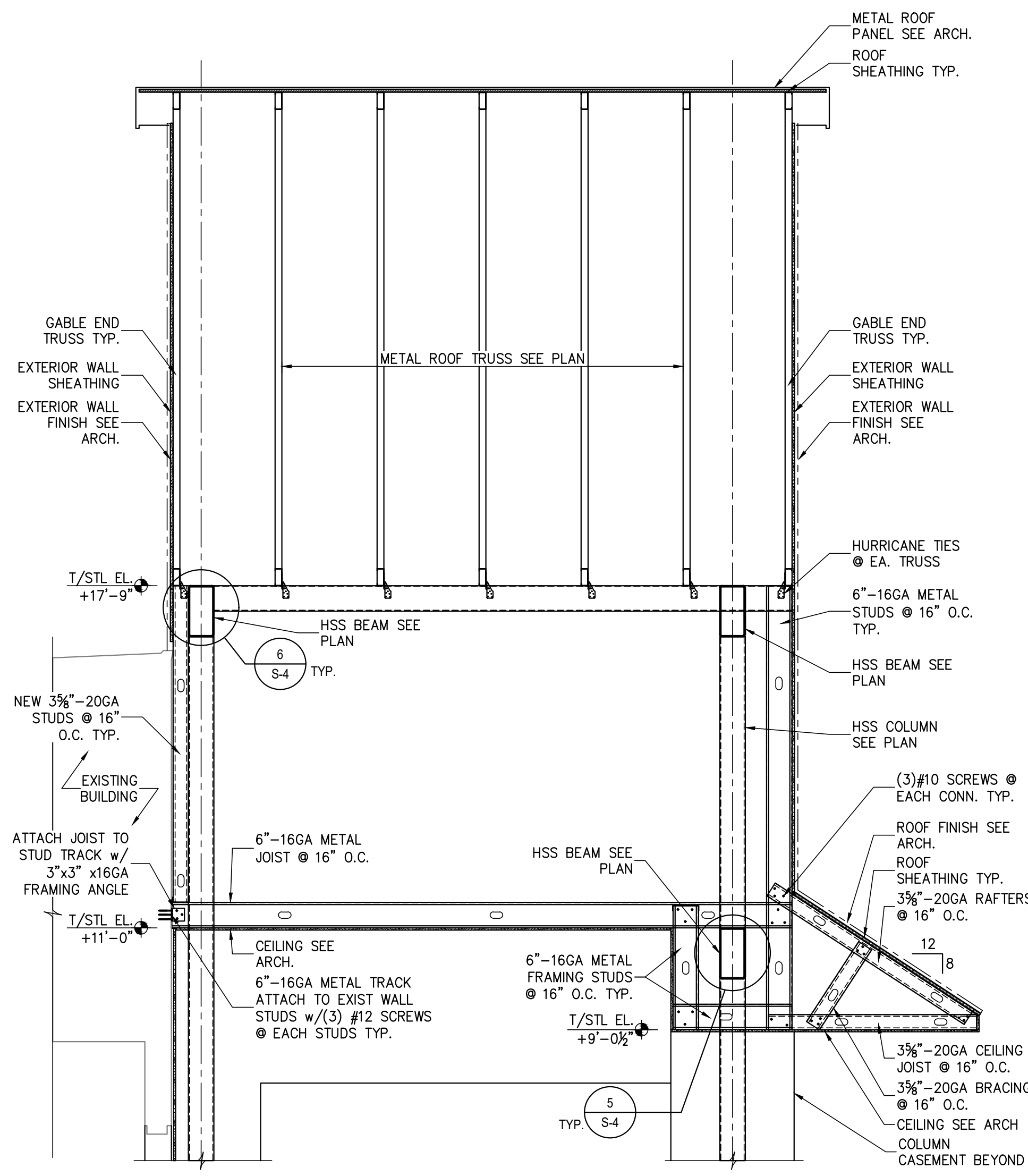
4 BRACE DETAIL AT WOOD POST
 S-4 3/4" = 1'-0"



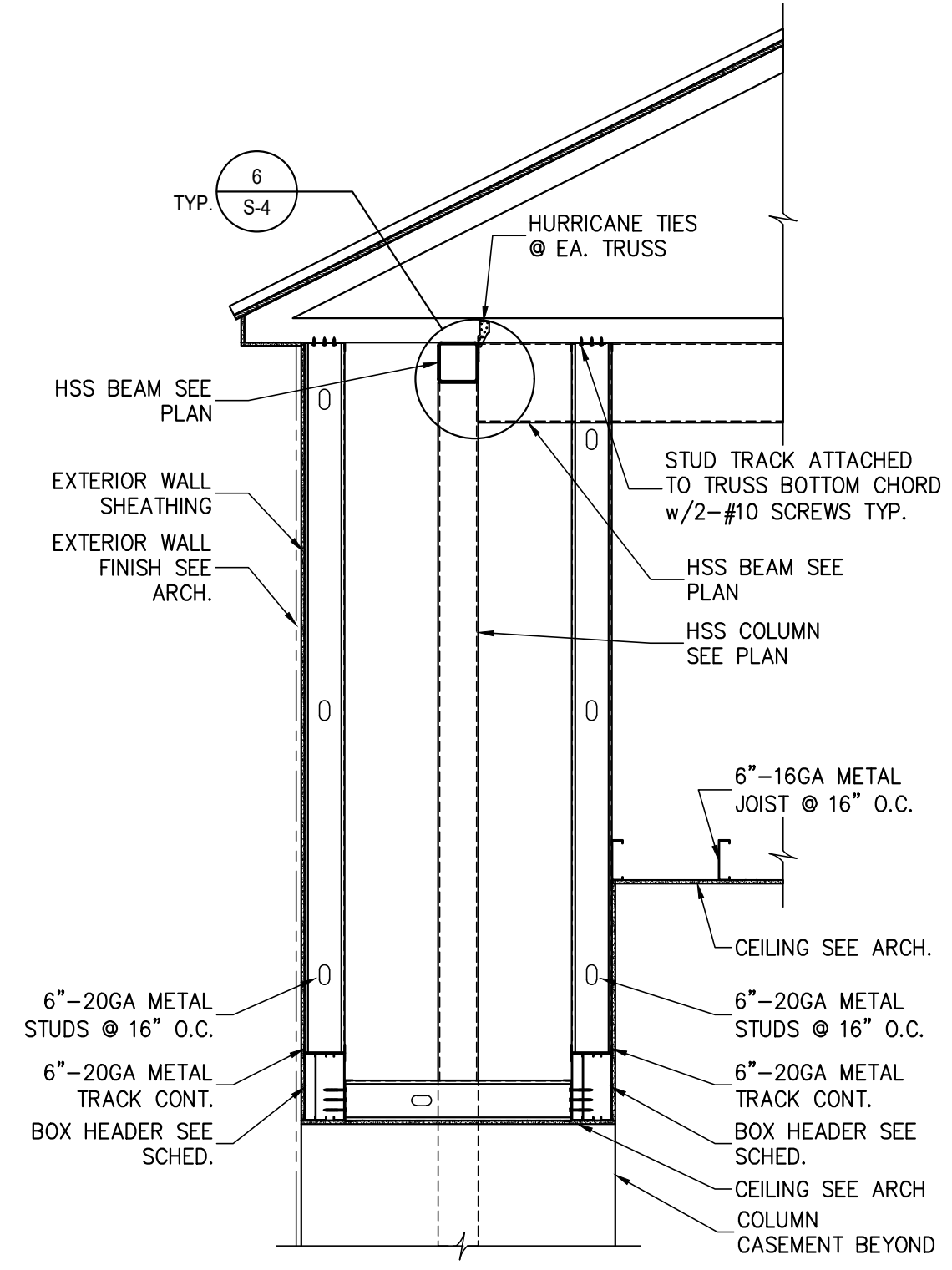
5 HSS GIRTS TO HSS COLUMN CONN.
 S-4 3/4" = 1'-0"



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

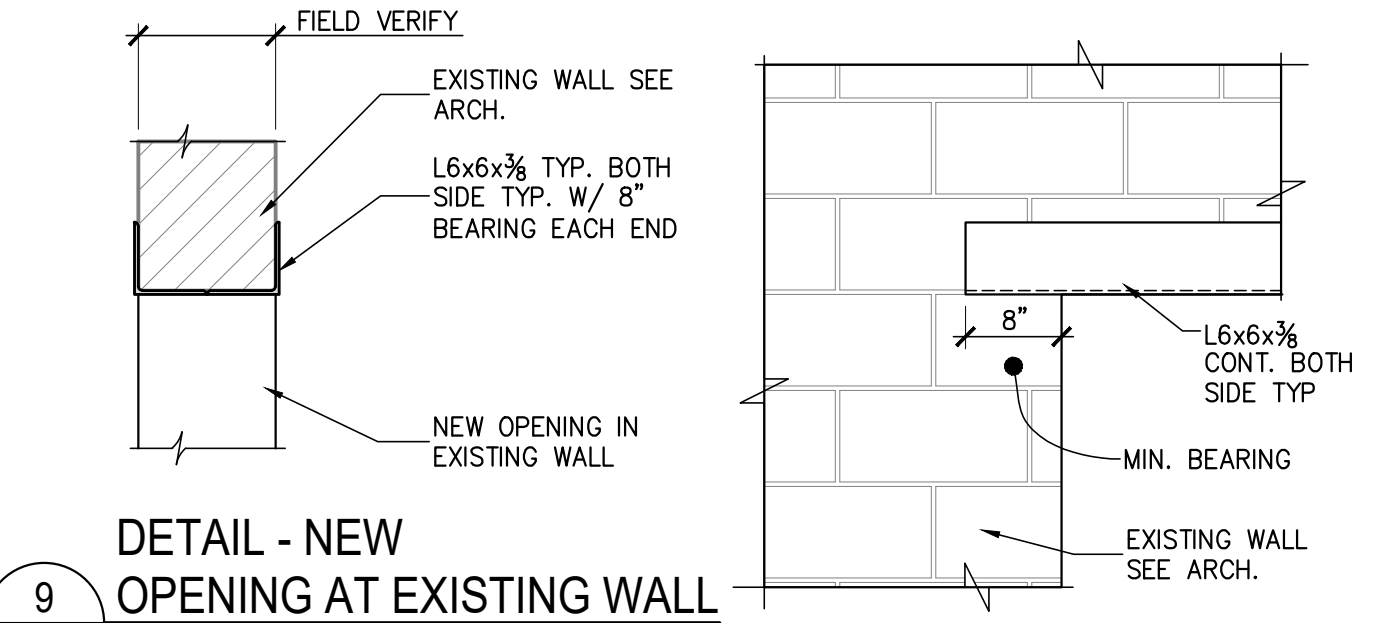


7 SECTION
 S-4 3/4" = 1'-0"

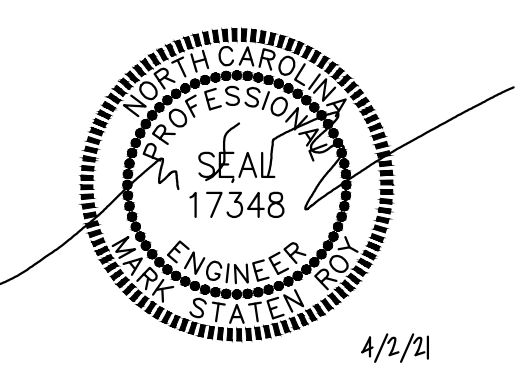


8 SECTION
 S-4 3/4" = 1'-0"

- 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 #1, 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:

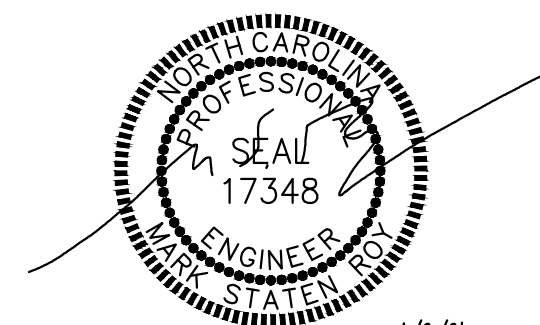
- 1. DESIGN LOADS:**
- ROOF DEAD LOAD _____ MAX _____ MIN (FOR UPLIFT) _____
 ROOFING _____ 2 PSF _____ 2 PSF
 SHEATHING _____ 2 PSF _____ 2 PSF
 ROOF FRAMING _____ 4 PSF _____ 3 PSF
 MISC _____ 10 PSF _____ 7 PSF
 - LIVE LOADS
 ROOF LIVE LOAD - ALL AREAS GREATER OF 20 PSF MINIMUM OR SNOW LOAD
 1ST FLOOR 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: ± 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	-



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REVISIONS

DATE
 04/02/2021

SHEET TITLE

DESIGN CRITERIA, NOTES AND SCHEDULES

SHEET

S-5

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			DEVICE			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 REFER TO LIGHTING SCHEDULE
 NUMBER OF LAMPS IN FIXTURE REFER TO LUMINAIRE SCHEDULE
 BALLAST TYPE USED IN THE FIXTURE REFER TO LUMINAIRE SCHEDULE
 NUMBER OF BALLASTS IN FIXTURE REFER TO LUMINAIRE SCHEDULE
 TOTAL WATTAGE PER FIXTURE 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

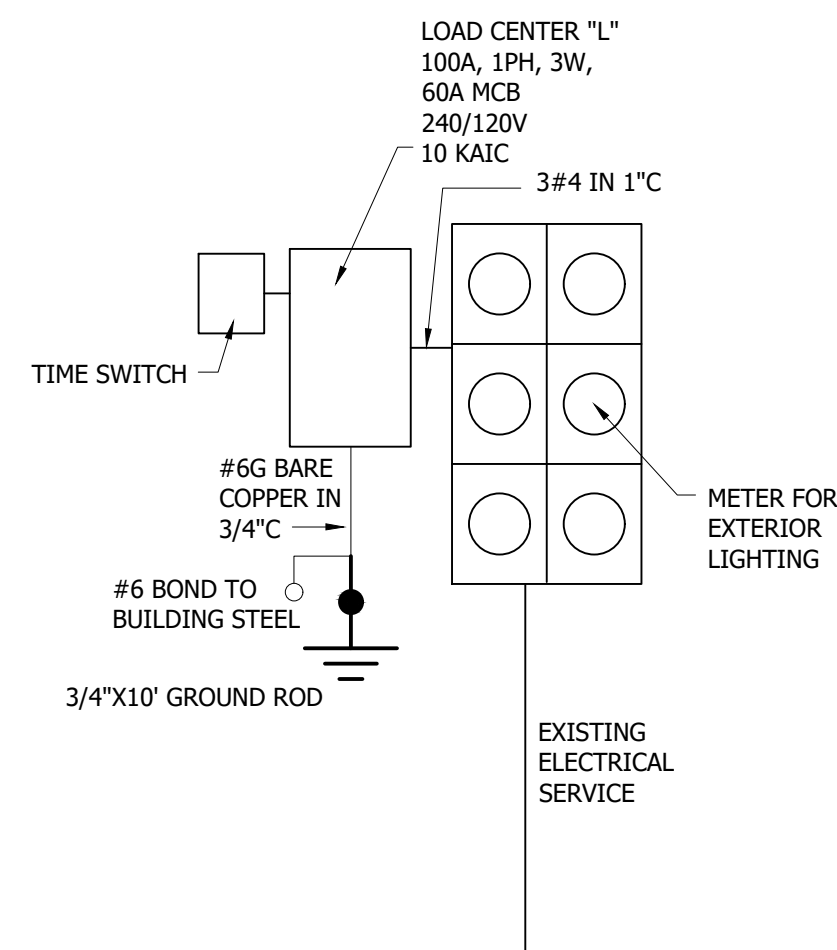
- C406.2 MORE EFFICIENT MECHANICAL EQUIPMENT
- C406.3 REDUCED LIGHTING POWER DENSITY
- C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
- C406.5 ON SITE RENEWABLE ENERGY
- C406.6 DEDICATED OUTSIDE AIR SYSTEM
- C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

ELECTRICAL LEGEND:

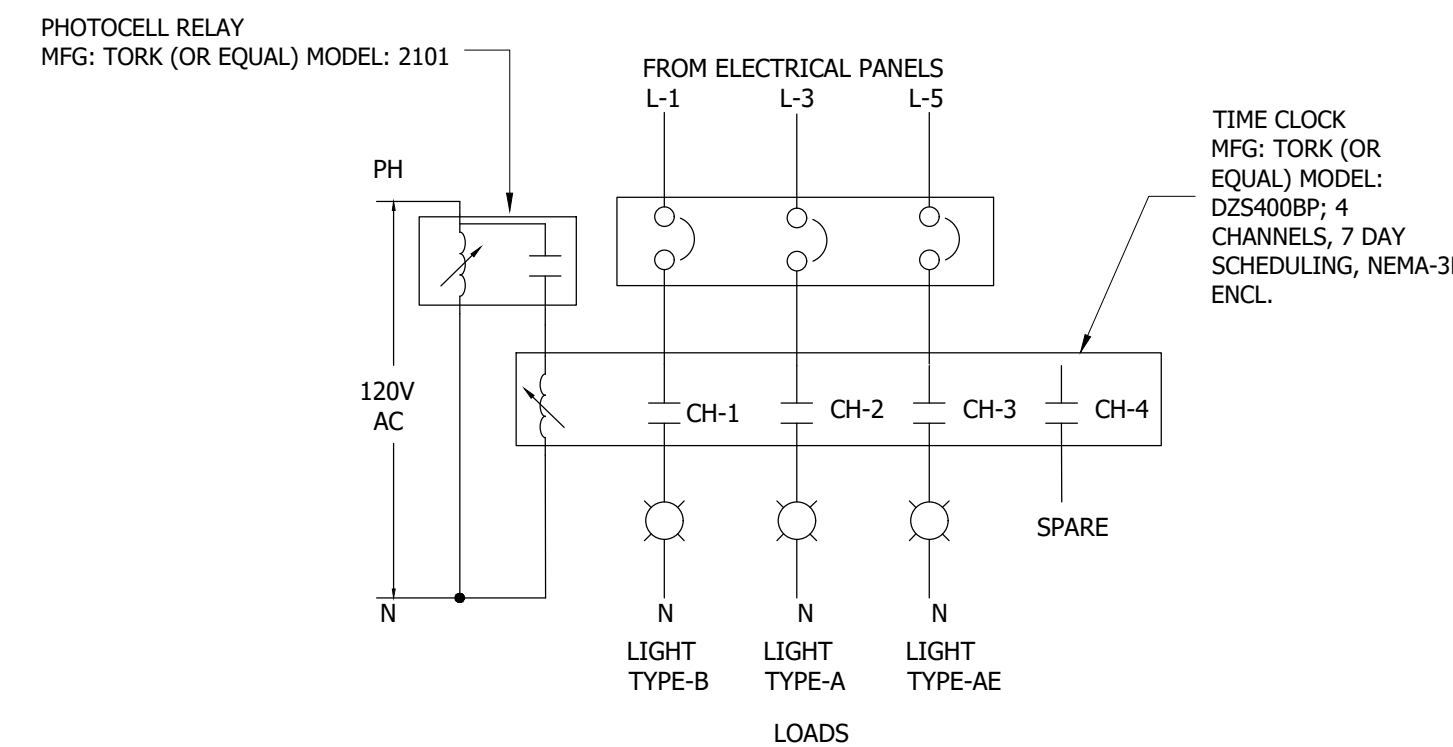
	4" RECESSED LED CAN LIGHT
	4" RECESSED LED CAN LIGHT WITH 90 MIN BATTERY BACK UP POWER
	EXTERIOR WALL LED LIGHT
	DUPLEX SPECIFICATION GRADE RECEPTACLE, 20A, 120V, MOUNT 18" AFF UNO; SUFFIX AS FOLLOWS G- GROUND FAULT; WP-WEATHERPROOF; TP- TAMPER PROOF
	ELECTRICAL PANELBOARD
	PHOTOCELL RELAY
	BRANCH CIRCUIT, 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

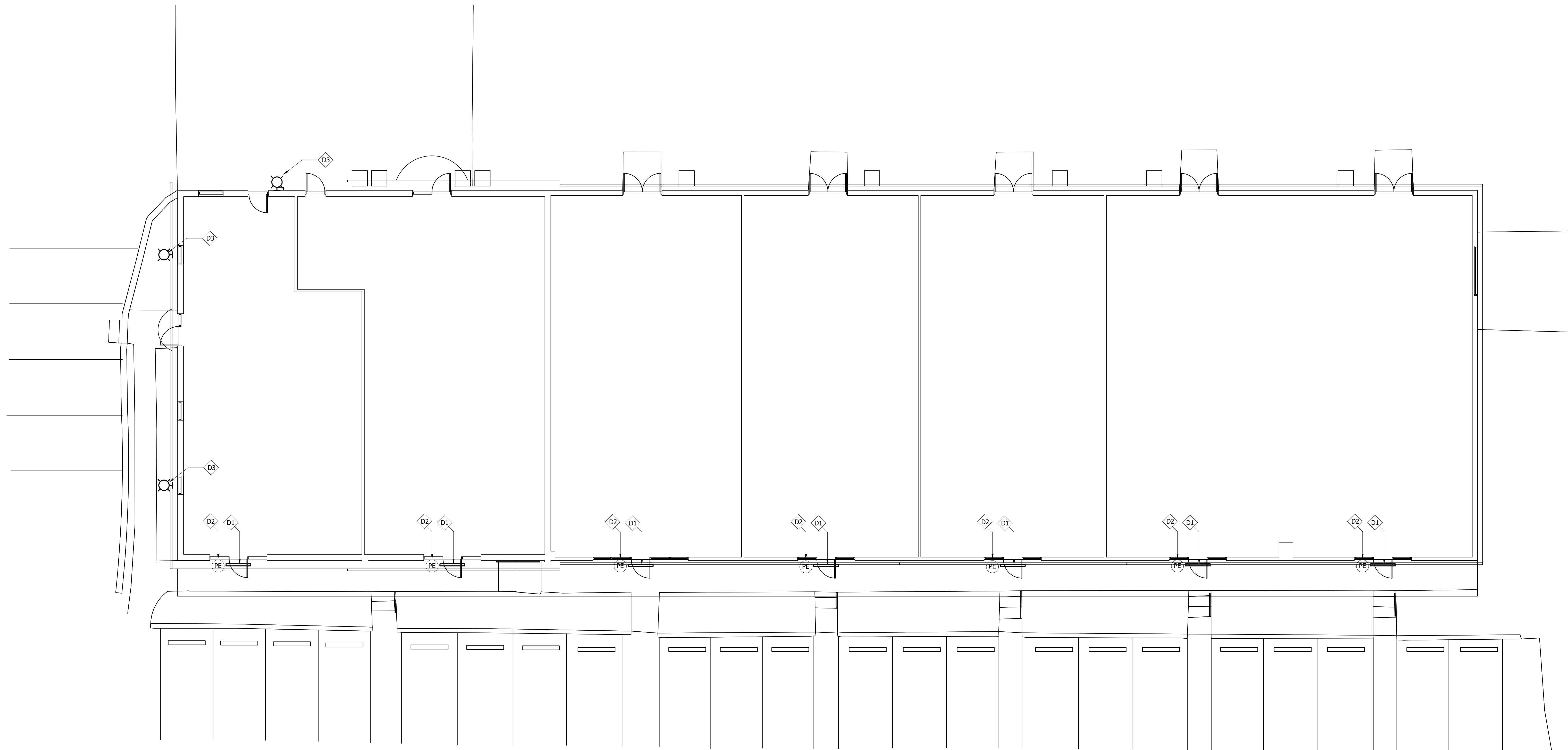
- A - AMPERES OR ABOVE COUNTER
- AFF - ABOVE FINISHED FLOOR
- AFG - ABOVE FINISHED GROUND
- C - CONDUIT
- EX - EXISTING
- EC - ELECTRICAL CONTRACTOR
- G - EQUIPMENT GROUNDING CONDUCTOR OR GROUND FAULT CIRCUIT INTERRUPTER
- GFCI - GROUND FAULT CIRCUIT INTERRUPTER
- GC - GENERAL CONTRACTOR
- N - NEUTRAL 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



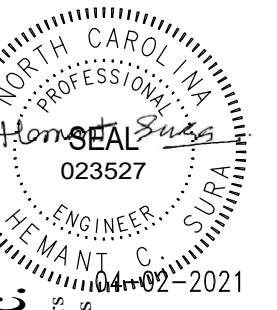
2 LIGHTING CONTROLS DETAIL
SCALE: NTS



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"



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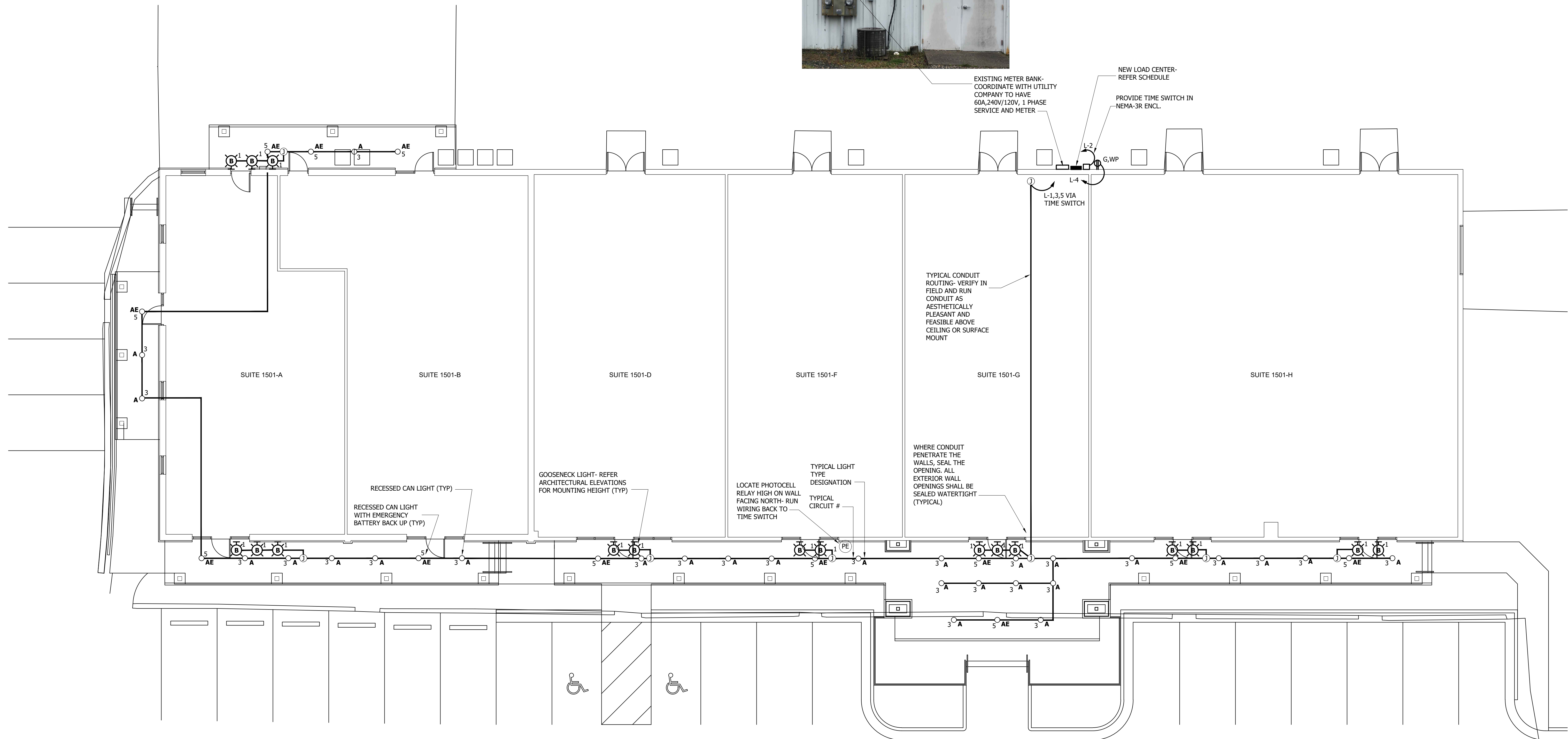
DATE
04-02-2021

SHEET TITLE

ELECTRICAL
DEMOLITION
PLAN

SHEET

E2



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

- 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.

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SHEET TITLE

ELECTRICAL
NEW WORK
PLAN

SHEET

E3

ELECTRICAL SPECIFICATIONS

SECTION 16010 - GENERAL PROVISIONS

PART 1 - GENERAL

1.1 CODES AND STANDARDS - THE LATEST EFFECTIVE PUBLICATIONS OF ALL APPLICABLE STANDARDS, CODES, ETC., AS THEY APPLY, FORM PART OF THESE SPECIFICATIONS AS IF WRITTEN FULLY HEREIN AND CONSTITUTE MINIMUM REQUIREMENTS. THE FOLLOWING WILL BE REFERRED TO THROUGHOUT IN ABBREVIATED FORMS.

- A. NATIONAL ELECTRICAL CODE, (NFPA 70) (NEC).
- B. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).
- C. RULES AND REGULATIONS OF LOCAL ELECTRIC UTILITY COMPANY.
- D. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).
- E. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
- F. APPLICABLE LOCAL CODES.
- G. UNDERWRITER'S LABORATORIES, INC. (UL).
- H. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).

1.2 SCOPE OF WORK - PROVIDE ALL WORK REQUIRED FOR THIS DIVISION INCLUDING ALL LABOR, MATERIALS, EQUIPMENT, APPURTENANCES AND SERVICES TO PROVIDE COMPLETE ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS AND SPECIFIED IN THIS DIVISION OF THE SPECIFICATIONS. THE WORD "PROVIDE" SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY FOR USE".

1.3 THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO DETERMINE THE EXTENT OF THE WORK. LACK OF KNOWLEDGE OF EXISTING CONDITIONS WILL NOT BE CONSIDERED A BASIS FOR CHANGE ORDERS. PRIOR TO ORDERING EQUIPMENT, VERIFY THAT EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT IS ACCEPTABLE AND CAN FIT INTO BLDG. AND ROOM. EXPENSE INCURRED BY THE CONTRACTOR, WHICH IN THE ENGINEER'S OPINION COULD HAVE BEEN AVOIDED BY THIS STEP, SHALL NOT BE A BASIS FOR CHANGE ORDERS.

1.4 DRAWINGS AND SPECIFICATIONS - THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT, CHARACTER AND ARRANGEMENT OF EQUIPMENT, FIXTURES AND CONDUIT AND WIRING SYSTEMS. IT IS THE INTENTION OF THESE SPECIFICATIONS AND DRAWINGS TO FULLY COVER ALL WORK AND MATERIALS FOR A COMPLETE, FIRST-CLASS ELECTRICAL INSTALLATION, AND ANY DEVICES SUCH AS PULL BOXES AND DISCONNECT SWITCHES, USUALLY EMPLOYED IN THIS CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS OR IN THIS SPECIFICATION, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS A PART OF HIS TOTAL WORK UNDER THIS DIVISION. CONSULT THE SPECIFICATIONS AND DRAWINGS OF ALL OTHER TRADES AND PERFORM ALL ELECTRICAL WORK REQUIRED THEREIN. COOPERATE WITH ALL OTHER CONTRACTORS OR SUBCONTRACTORS TO FURNISH COMPLETE WORKABLE SYSTEMS.

1.5 DURING CONSTRUCTION, KEEP AN ACCURATE RECORD OF ALL DEVIATIONS BETWEEN THE WORK AS SHOWN ON THE CONTRACT DRAWINGS AND THAT WHICH IS ACTUALLY INSTALLED ON A SET OF BLUE LINE PRINTS OF THE ELECTRICAL DRAWINGS, AND NOTE CHANGES THEREON WITH RED MARKS, IN A NEAT AND ACCURATE MANNER. WHEN ALL REVISIONS HAVE BEEN SHOWN ON THESE PRINTS TO INDICATE THE WORK AS FINALLY INSTALLED, THE PRINTS SHALL BE DELIVERED TO THE ENGINEER, BEFORE FINAL PAYMENT.

1.6 PERMITS, INSPECTION AND TESTS - THE RIGHT IS RESERVED TO INSPECT AND TEST ANY PORTION OF THE INSTALLATION/EQUIPMENT DURING THE PROGRESS OF ITS ERECTION. THIS CONTRACTOR SHALL TEST ALL WIRING FOR CONTINUITY AND GROUNDS BEFORE CONNECTING ANY FIXTURES OR DEVICES. THIS CONTRACTOR SHALL TEST THE ENTIRE SYSTEM WHEN THE WORK IS FINALLY COMPLETED TO INSURE THAT ALL PORTIONS ARE FREE FROM SHORT CIRCUITS AND GROUNDS.

1.7 SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS. INSPECTION CERTIFICATES FROM LOCAL AUTHORITIES HAVING JURISDICTION SHALL BE DELIVERED TO THE OWNER BEFORE FINAL PAYMENT.

1.8 SUBMITTALS - SUBMIT SHOP DRAWINGS, PRODUCT DATA AND SAMPLES WITHIN THIRTY (30) DAYS OF AWARD OF CONTRACT AND IN ACCORDANCE WITH THE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS. SUBMITTALS ARE REQUIRED FOR ALL ITEMS PROVIDED UNDER THIS SPECIFICATION. REVIEW OF SUBMITTALS BY THE ENGINEER AND ANY ASSOCIATED ACTION TAKEN BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF ANY REQUIREMENTS SET FORTH BY THE CONTRACT DOCUMENTS.

PART 2 - PRODUCTS

2.1 MANUFACTURING STANDARDS - MATERIALS SHALL BE NEW AND APPROVED AND LABELED BY UL WHEREVER STANDARDS HAVE BEEN ESTABLISHED BY THAT AGENCY. DEFECTIVE EQUIPMENT OR EQUIPMENT DAMAGED IN THE COURSE OF INSTALLATION OR TEST SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING THE APPROVAL OF THE OWNER. ALL ITEMS OF THE SAME TYPE AND RATING SHALL BE IDENTICAL.

2.2 TRADE NAMES - UNLESS SPECIFICALLY IDENTIFIED OTHERWISE, MANUFACTURERS' NAMES AND CATALOG NUMBERS INDICATED HEREIN AND ON THE DRAWINGS ARE NOT INTENDED TO BE PROPRIETARY DESIGNATIONS. THEY ARE TO INDICATE GENERAL TYPE AND QUALITY OF MATERIALS AND EQUIPMENT REQUIRED. EQUIPMENT AND MATERIALS BY OTHER MANUFACTURERS WHICH IN THE OPINION OF THE ENGINEER ARE OF EQUAL QUALITY AND WHICH WILL PRODUCE THE SAME RESULTS WILL BE CONSIDERED ACCEPTABLE.

2.3 MOTORS - MOTORS SHALL HAVE DISCONNECTING MEANS AND CONTROLLERS. CONTROLLERS SHALL HAVE THERMAL OVERLOAD PROTECTION AND PHASE OUTAGE PROTECTION RELAYS.

2.4 DISCONNECT SWITCHES AND POWER WIRING UP TO AND INCLUDING MOTOR CONNECTIONS FOR ALL EQUIPMENT PROVIDED UNDER OTHER DIVISIONS OF THIS SPECIFICATION SHALL BE INCLUDED IN THIS DIVISION. WHERE MANUAL MOTOR CONTROL SWITCHES FOR SINGLE PHASE MOTORS ARE INDICATED, THEY SHALL BE PROVIDED AND WIRED COMPLETE UNDER THIS DIVISION. MOTOR CONTROLLERS AND MOTOR STARTERS FURNISHED UNDER OTHER DIVISIONS SHALL BE SET IN PLACE AND CONNECTED TO SOURCE AND LOAD UNDER THIS DIVISION. IN GENERAL, MOTORS WILL BE PROVIDED WITH THE EQUIPMENT THEY DRIVE AND ARE NOT PART OF THIS WORK UNDER THIS DIVISION, EXCEPT THAT THEY SHALL BE CONNECTED HEREUNDER.

2.5 OBTAIN APPROVED SHOP DRAWINGS SHOWING WIRING DIAGRAMS, CONNECTION DIAGRAMS, ROUGHING-IN AND HOOKUP DETAILS, FROM OTHER INVOLVED CONTRACTORS FOR ALL EQUIPMENT AND COMPLY THEREWITH.

2.6 CONTROL, INTERLOCK, AND INTERNAL EQUIPMENT WIRING REGARDLESS OF VOLTAGE WILL BE PROVIDED BY OTHERS UNLESS SPECIFICALLY SHOWN HERE.

2.7 GROUNDING - THE ENTIRE ELECTRICAL SYSTEM, INCLUDING EQUIPMENT FRAMES, CONDUIT, SWITCHES, CONTROLLERS, WIREWAYS, NEUTRAL CONDUCTORS, AND ALL OTHER SUCH EQUIPMENT SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED IN ACCORDANCE WITH THE NEC. GROUND RODS SHALL BE COPPER CLAD STEEL, 3/4" DIAMETER BY 10'-0" LONG. GROUNDING OF EACH TRANSFORMER SECONDARY SHALL BE PROVIDED AND EACH SHALL BE CONSIDERED AS A SEPARATE SERVICE GROUND. PROVIDE A SEPARATE GROUND CONDUCTOR IN ALL BRANCH CIRCUIT CONDUITS SIZED IN ACCORDANCE WITH THE NEC.

2.8 SCHEDULE OF WORK - THE SCHEDULE OF THE ELECTRICAL WORK SHALL BE ARRANGED TO SUIT THE PROGRESS OF WORK BY THE OTHER TRADES AND SHALL IN NO WAY RETARD PROGRESS OF CONSTRUCTION OF THE PROJECT.

2.9 WORK UNDER THIS DIVISION SHALL PROCEED IN ADVANCE OF THE WORK OF OTHERS WHENEVER POSSIBLE, ELIMINATING ALL CUTTING AND PATCHING. WHEN SUCH PROCEDURE IS IMPOSSIBLE, CUTTING AND PATCHING SHALL BE DONE IN AN APPROVED MANNER. CUTTING SHALL NOT ENDANGER STRUCTURAL INTEGRITY IN ANY WAY. PATCHING SHALL EXACTLY MATCH CONTIGUOUS WORK. ACTUAL WORK OF CUTTING AND PATCHING OF EXISTING SURFACES SHALL BE PERFORMED BY THE SUBCONTRACTOR WHO ORIGINALLY PREPARED THESE SURFACES, E.G., CUTTING AND PATCHING OF MASONRY WALL WILL BE PERFORMED BY THE MASONRY SUBCONTRACTOR. COSTS OF SUCH CUTTING AND PATCHING SHALL BE BORNE BY THE ELECTRICAL SUBCONTRACTOR. CUTTING SHALL BE CAREFULLY DONE AND DAMAGE TO BUILDING, PIPING, WIRING OR EQUIPMENT AS A RESULT OF CUTTING SHALL BE REPAIRED BY SKILLED MECHANICS OF TRADE INVOLVED.

2.10 LABELING OF EQUIPMENT - ALL PANELBOARDS, CABINETS, SAFETY SWITCHES, MOTOR DISCONNECT SWITCHES, AND MOTOR CONTROLLERS SHALL BE IDENTIFIED BY MACHINE ENGRAVED LAMINATED PLASTIC DESIGNATION PLATES PERMANENTLY ATTACHED THERETO WITH SELF-TAPPING SCREWS OR RIVETS. ALL COMPONENT PARTS OF EACH ITEM OF EQUIPMENT OR DEVICE SHALL BEAR THE MANUFACTURER'S NAMEPLATE, GIVING NAME OF MANUFACTURER, DESCRIPTION, SIZE, TYPE, SERIAL AND MODEL NUMBER AND ELECTRICAL CHARACTERISTICS IN ORDER TO FACILITATE MAINTENANCE OR REPLACEMENT.

2.11 COORDINATION - COOPERATE AND COORDINATE EFFORTS WITH ALL CONTRACTORS ON THE PROJECT. THIS IS ESPECIALLY IMPORTANT IN DETERMINING EXACT LOCATIONS OF ALL SWITCHES, RECEPTACLES AND LIGHTING FIXTURES. ARRANGE LIGHTING FIXTURES IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS UNLESS OTHERWISE INDICATED. COORDINATE LIGHTING FIXTURE LOCATIONS WITH GRILLES, DIFFUSERS, ACCESS PANELS, ETC. VERIFY CEILING AND WALL CONSTRUCTION AND MATERIAL PRIOR TO ORDERING LIGHTING FIXTURES OR OTHER DEVICES TO ENSURE PROPER FIXTURE OR DEVICE IS FURNISHED TO MATCH CONSTRUCTION. THIS VERIFICATION MUST BE EXECUTED REGARDLESS OF INFORMATION PLACED ON THE DRAWINGS. ANY COST INCURRED WHICH IN THE OPINION OF THE OWNER, COULD HAVE BEEN AVOIDED BY THIS STEP SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

2.12 GUARANTEE OF WORK - CONTRACTOR GUARANTEES BY HIS ACCEPTANCE OF THE CONTRACT THAT ALL WORK INSTALLED IS FREE FROM ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS, AND THAT THE APPARATUS WILL DEVELOP CAPACITIES AND CHARACTERISTICS SPECIFIED, AND THAT IF, DURING THE PERIOD OF ONE YEAR OR AS OTHERWISE SPECIFIED, FROM DATE OF CERTIFICATE OF COMPLETION AND ACCEPTANCE OF THE WORK ANY SUCH DEFECTS IN WORKMANSHIP, MATERIAL OR PERFORMANCE APPEAR, HE WILL, WITHOUT COST TO THE OWNER, REMEDY SUCH DEFECTS WITHIN A REASONABLE TIME TO BE SPECIFIED IN NOTICE. IN DEFAULT THEREOF, THE OWNER MAY HAVE SUCH WORK DONE AND CHARGE COST TO CONTRACTOR. EQUIPMENT GUARANTEES FROM DATE OF "START-UP" WILL NOT BE RECOGNIZED.

RACEWAY, FITTINGS AND BOXES

A. RACEWAYS - CONDUIT SHALL BE HOT-DIPPED, ZINC COATED OR RIGID STEEL (RS), INTERMEDIATE METAL CONDUIT (IMC), ELECTRICAL METALLIC TUBING (EMT), OR SCHEDULE 40 POLYVINYL CHLORIDE (PVC).

B. FLEXIBLE CONDUIT SHALL BE GALVANIZED, CONTINUOUS SPIRAL, SINGLE STRIP TYPE. FLEXIBLE CONDUIT SHALL BE COVERED WITH PVC JACKET IN WET OR DAMP LOCATIONS. PROVIDE SUITABLE FITTINGS WITH GROUND CONNECTOR.

C. FITTINGS - ALL CONDUIT ENTERING OR LEAVING OUTLET, JUNCTION OR PULL BOXES, AND CABINETS AND ALL CONDUIT STUBS SHALL HAVE BUSHINGS. PROVIDE INSULATING BUSHINGS WHERE REQUIRED BY NEC. PROVIDE EXPANSION FITTINGS WITH BONDING JUMPER WHERE CONDUITS CROSS EXPANSION JOINTS.

1. FITTINGS FOR RS AND IMC SHALL BE THREADED TYPE.

2. FITTINGS FOR EMT SHALL BE THREADLESS, APPROVED FOR THE CONDITIONS ENCOUNTERED AND MAY BE CAST SETSCREW TYPE OR COMPRESSION TYPE.

D. FITTINGS FOR PVC SHALL BE PVC, PRIMED AND GLUED.

E. OUTLET BOXES AND JUNCTION BOXES - OUTLET BOXES SHALL BE PRESSED STEEL, ELECTRO-GALVANIZED OR CADMIUM PLATED WITH CLEAN CUT, EASILY REMOVABLE KNOCKOUTS. EXCEPT AS NOTED HEREINAFTER MINIMUM SIZE OUTLET BOX SHALL BE 4" SQUARE, 1 1/2" DEEP, AND SHALL BE INCREASED IN DIMENSIONS TO ACCOMMODATE CONDUCTORS, CONDUITS, AND DEVICES AS REQUIRED BY THE NEC. SHALLOWER BOXES MAY BE USED WHERE REQUIRED BY STRUCTURAL CONDITIONS. PROVIDE SUITABLE PLASTER-RINGS TO MATCH WALL CONSTRUCTION AND DEVICE. CEILING AND BRACKET OUTLET BOXES SHALL BE NOT LESS THAN 4" OCTAGONAL, 1 1/2" DEEP EXCEPT THAT SMALLER BOXES MAY BE USED WHERE REQUIRED BY PARTICULAR FIXTURE TO BE INSTALLED.

F. NON METALLIC OUTLET BOXES MAY BE PROVIDED IN PVC RACEWAY SYSTEMS. OUTLET BOXES IN WET OR DAMP LOCATIONS SHALL BE CAST-METAL, THREADED HUB-TYPE WITH GASKETS.

G. JUNCTION OR PULL BOXES NOT OVER 100 CUBIC INCHES IN VOLUME SHALL BE STANDARD OUTLET BOXES. JUNCTION BOXES OVER 100 CUBIC INCHES IN VOLUME SHALL BE CONSTRUCTED OF CODE GAGE, GALVANIZED SHEET STEEL. JUNCTION BOXES SHALL HAVE REMOVABLE COVERS AND SHALL BE ACCESSIBLE AFTER COMPLETION OF WORK.

H. RACEWAY AND FITTING INSTALLATION - RUN CONDUITS CONCEALED WITHIN WALLS, ABOVE CEILINGS AND WITHIN OR BELOW FLOORS. CONDUITS MAY BE RUN EXPOSED IN MECHANICAL ROOMS AND SPACES WITH EXPOSED CONSTRUCTION. CONDUIT SHALL BE SUPPORTED AT INTERVALS OF NOT MORE THAN 8'. RUN EXPOSED CONDUIT PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS, OR INTERSECTIONS OF VERTICAL PLANES AND CEILING. CONDUIT LARGER THAN 1" NOMINAL DIAMETER SHOWN IN FLOOR SLAB SHALL BE RUN UNDER THE SLAB. CONDUIT 1" AND SMALLER MAY BE RUN IN THE FLOOR SLAB WHERE PRACTICABLE.

I. SUPPORT CONDUITS BY PIPE STRAPS, WALL BRACKETS, STRAP HANGERS, OR CEILING TRAPEZE.

J. RUN ALL CONDUITS TOGETHER AS POSSIBLE IN A NEATLY MATTER.

K. DO NOT INSTALL EMT OUTDOORS, OR UNDERGROUND, OR ENCASED IN CONCRETE, OR IN HAZARDOUS AREAS, OR IN AREAS SUBJECT TO SEVERE PHYSICAL DAMAGE.

L. DO NOT INSTALL PVC IN OR THROUGH FIRE RATED ASSEMBLIES, IN OR THROUGH ANY WALLS, IN OR THROUGH ANY CEILINGS, IN HAZARDOUS AREAS, IN AREAS SUBJECT TO SEVERE PHYSICAL DAMAGE, OR EXPOSED ANYWHERE IN THE PROJECT.

M. CONDUIT RUN UNDERGROUND, UNDER SLAB, OR WITHIN CONCRETE ENCASEMENT MAY BE POLYVINYL CHLORIDE (PVC) OR RS OR IMC CONDUIT PROTECTED WITH 2 COATS OF BITUMASTIC PAINT. CONVERT PVC TO RS OR IMC BEFORE RISING THROUGH FLOOR SLAB OR RISING OUT OF SOIL. CONDUIT RUN BENEATH SLAB SHALL BE PROPERLY SUSPENDED FROM SLAB SUCH THAT SUB-SLAB SETTLEMENT WILL NOT ADVERSELY AFFECT ELECTRICAL SYSTEM.

N. SERVICE ENTRANCE CONDUITS SHALL BE DIRECT BURIED RS OR IMC, AS NOTED.

O. SLEEVES - ALL ELECTRICAL SYSTEM CONDUIT SHALL HAVE SLEEVES WHERE CONDUIT PASSES THROUGH CONCRETE SLABS EXCEPT CONCRETE SLABS IN CONTACT WITH GRADE. ALL CONDUIT 1 1/4 INCH AND LARGER RUNNING CONCEALED ABOVE CEILING SHALL HAVE SLEEVES WHERE THE CONDUIT PASSES THROUGH MASONRY, TILE AND GYPSUM WALL CONSTRUCTION. SLEEVES SHALL BE CONSTRUCTED OF GALVANIZED STEEL PIPE, SCHEDULE 40. PROVIDE ESCUTCHEON PLATES FOR ALL EXPOSED CONDUIT PASSING THROUGH WALLS, FLOORS AND CEILINGS. WHERE PLATES ARE PROVIDED FOR CONDUITS PASSING THROUGH SLEEVES, WHICH EXTEND ABOVE THE FLOOR SURFACE, PROVIDE DEEP RECESSED PLATES TO CONCEAL THE SLEEVES. TERMINATE SLEEVES FLUSH WITH WALL, PARTITIONS AND CEILINGS. IN AREAS WHERE CONDUITS ARE CONCEALED, AS IN CHASES, TERMINATE SLEEVES FLUSH WITH FLOOR. IN FINISHED AREAS, WHERE CONDUITS ARE EXPOSED, EXTEND SLEEVES 1/2 INCH ABOVE FINISHED FLOOR, EXCEPT IN ROOMS HAVING FLOOR DRAINS EXTEND SLEEVES 1 INCH ABOVE FLOOR. FASTEN SLEEVES SECURELY IN FLOORS, WALLS, SO THAT THEY WILL NOT BECOME DISPLACED WHEN CONCRETE IS POURED OR WHEN OTHER CONSTRUCTION IS BUILT AROUND THEM. WHERE SLEEVES PASS THROUGH FLOORS OR FIRE RATED WALLS PROVIDE PROPER SEALANT AROUND CONDUIT TO MAINTAIN FIRE RATING.

CONDUCTORS

A. CONDUCTORS AND INSULATION - WIRE AND CABLE SHALL BE SOFT DRAWN, ANNEALED COPPER WITH 600 VOLT COLOR CODED INSULATION. MINIMUM WIRE SIZE SHALL BE #12 AWG. INSULATION FOR CONDUCTOR SIZES #12 AND #10 SHALL BE TYPE THW OR RHW FOR INSTALLATION IN ORDINARY DRY LOCATIONS AND TYPE THWN FOR INSTALLATION IN WET LOCATIONS. WET LOCATIONS WILL INCLUDE SERVICE CONDUITS, CONDUIT UNDERGROUND, RACEWAYS INSTALLED IN CONCRETE FLOOR SLABS IN DIRECT CONTACT WITH THE EARTH AND RACEWAYS REGULARLY SUBJECT TO MOISTURE OR CONDENSATION. CONDUCTORS SIZES LARGER THAN #10 SHALL HAVE TYPE XHHW-2 INSULATED. CONDUCTORS NO. 8 AWG AND LARGER DIAMETER SHALL BE STRANDED. CONDUCTORS NO. 10 AWG AND SMALLER DIAMETER SHALL BE SOLID, EXCEPT THAT CONDUCTORS FOR REMOTE-CONTROL AND SIGNAL CIRCUITS, CLASSES 1, 2, AND 3, MAY BE STRANDED.

B. BRANCH CIRCUIT CONDUCTORS IN FLUORESCENT FIXTURE RACEWAYS AND DROPS TO SINGLE FLUORESCENT FIXTURES SHALL BE TYPE THHN OR XHHW.

C. METAL CLAD (MC) CABLE SHALL BE ALLOWED FOR BRANCH CIRCUITTING 20A, 120V OR LESS.

D. PROVIDE A SEPARATE GROUND CONDUCTOR IN ALL RACEWAYS SIZED IN ACCORDANCE WITH THE NEC.

E. JOINTS AND TERMINATIONS - FOR CONDUCTORS #12 AND #10 ALL FIXTURE AND BRANCH CIRCUITS JOINTS IN JUNCTION AND OUTLET BOXES SHALL BE MADE WITH UL LISTED PRESSURE TYPE CONNECTORS RATED AT 600 VOLTS AND 105 DEGREES C. CONNECTORS SHALL BE IDEAL INDUSTRIES "WING-NUT" OR BUCHANAN "B-CAP", 3M "SCOTCH-LOK" CONNECTORS OR EQUAL. WIRE #8 AND LARGER SHALL BE JOINED OR TERMINATED WITH SOLDERLESS PRESSURE CONNECTORS PROPERLY TAPED IN LAYERS TO FORM A MOISTURE-TIGHT JOINT.

F. COLOR CODE: COMPLY WITH THE FOLLOWING:
COLOR 240/120V, 1 PH, 3 W
ONE HOT LEG - BLACK; ONE HOT LEG - RED
NEUTRAL WHITE GROUND GREEN

WIRING DEVICES

A. WIRING DEVICES SHALL BE "SPECIFICATION GRADE" AS MANUFACTURED BY GENERAL ELECTRIC, SLATER (MEDALIST), ARROW-HART, BRYANT, HUBBELL OR PASS & SEYMOUR.

B. LOCAL SWITCHES SHALL BE SINGLE POLE, DOUBLE POLE, THREE WAY AND FOUR WAY AS SHOWN ON THE DRAWINGS, BLACK PLASTIC CUP WITH RED PLASTIC COVER AND IVORY PLASTIC HANDLE, BACK OR SIDE WIRED, 20 AMPERE, 120-277 VOLTS.

C. DUPLEX CONVENIENCE RECEPTACLES SHALL BE STAINLESS STEEL, 20 AMPERE, 125 VOLTS, 2 POLE, 3 WIRE NEMA AND ASA STANDARD, GROUNDING TYPE.

D. WEATHERPROOF RECEPTACLES SHALL BE IN CAST METAL BOX WITH GASKETED, WEATHERPROOF, CAST-METAL COVER PLATE AND GASKETED CAP OVER EACH RECEPTACLE OPENING. CAPS SHALL BE PROVIDED WITH A SPRING-HINGED FLAP.

E. GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLES SHALL CONFORM TO NEC, SHALL BE UL LISTED, IVORY PLASTIC, SHALL HAVE A "PUSH-TO-TEST" BUTTON AND VISIBLE INDICATION OF A TRIPPED CONDITION.

F. DEVICE PLATES ON UNFINISHED WALLS AND ON FITTINGS, SHALL BE ZINC-COATED SHEET STEEL HAVING ROUNDED OR BEVELED EDGES. ON FINISHED WALLS, PLATES SHALL BE SATIN FINISHED TYPE 302, ALLOY 18-8 STAINLESS STEEL WITH BEVELED EDGES.

PANELBOARDS (OR LOAD CENTERS)

A. PANELBOARDS - PANELBOARDS SHALL BE DEAD-FRONT, CIRCUIT BREAKER EQUIPPED WITH TRIP RATINGS AND FRAME SIZES AS SHOWN ON THE DRAWINGS. ALL CURRENT-CARRYING PARTS OF THE BUS ASSEMBLY SHALL BE PLATED.

B. EACH PANELBOARD SHALL BE PROVIDED WITH A HINGED COVER WITH A FLUSH LATCH AND LOCK WITH TWO KEYS AND KEYED THE SAME AS ALL OTHER PANELBOARDS. EACH PANEL SHALL BE EQUIPPED WITH TYPEWRITTEN DIRECTORY CARD, CARD HOLDER, TRANSPARENT PROTECTION AND COMPLETE IDENTIFYING DATA ON INSIDE OF DOOR.

LIGHTING FIXTURES

A. FIXTURES - FIXTURES SHALL BE AS INDICATED IN SCHEDULE.

B. LAMPS - UNLESS OTHERWISE NOTED ALL LIGHT FIXTURES SHALL BE LED.

C. LED LIGHTS- LIGHTS MUST BE UL LISTED, MEET IES STANDARDS LM-79, LM-80, TM-21. ALL LED FROM THE SAME BATCH AND COMPATIBLE WITH DIMMER.

D. NO FIXTURES SHALL BE HUNG WITH ZIP-CLIPS.

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REVISIONS

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ELECTRICAL
SPECIFICATIONS

SHEET

E4