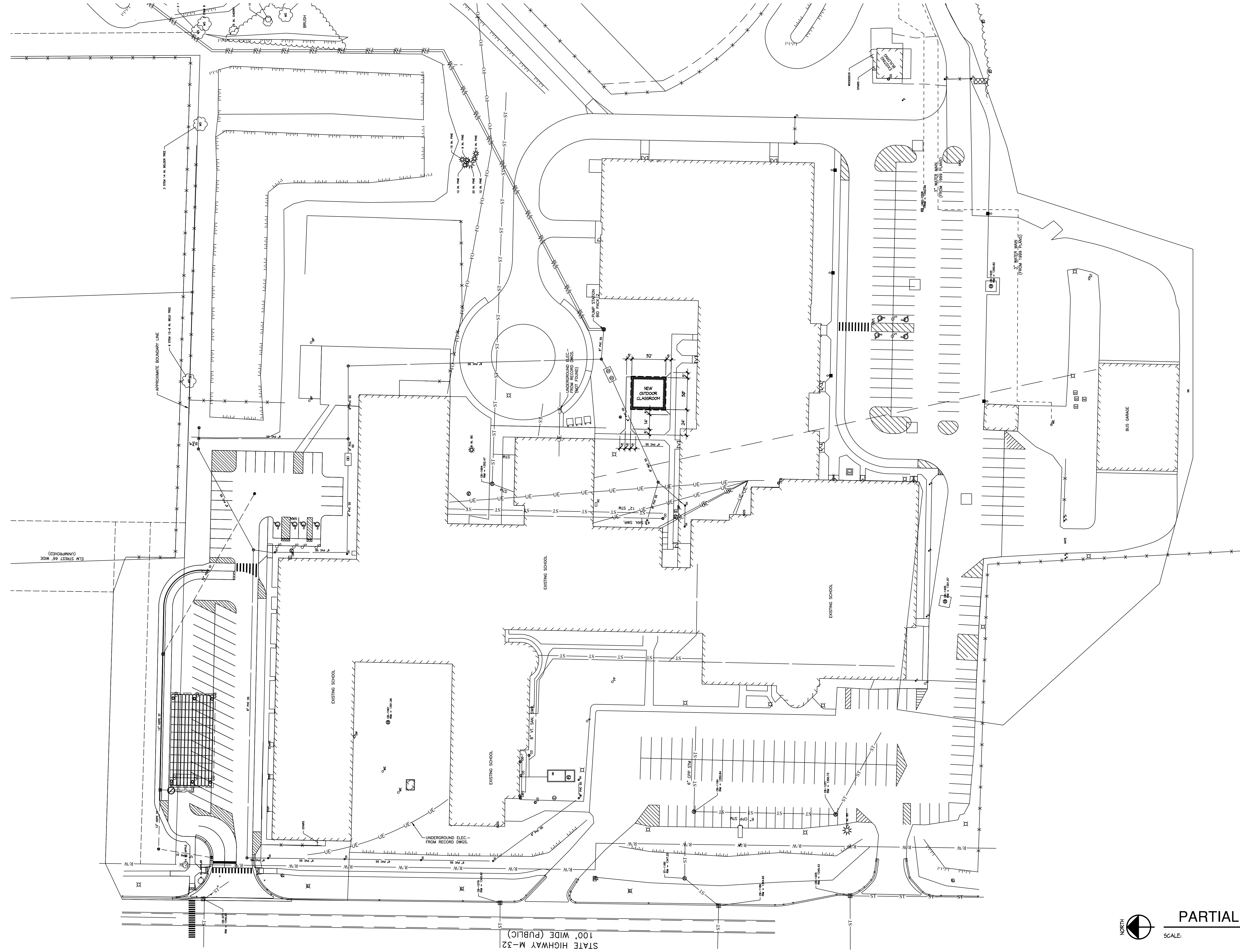


JOHANNESBURG LEWISTON AREA SCHOOLS - 2024 SUMMER PROJECTS

BID PACKAGE NO. 3

JOHANNESBURG BUILDING OUTDOOR CLASSROOM

10854 M-32 EAST, JOHANNESBURG, MI 49751



SHEET INDEX

T TITLE SHEET, PROJECT INFORMATION / PARTIAL SITE PLAN
 A1.1 BUILDING PLANS, ELEVATIONS, SCHEDULES AND NOTES
 A1.2 BUILDING SECTIONS AND DETAILS
 E0.1 ELECTRICAL TITLE SHEET
 E1.1 ELECTRICAL PLAN

CODE DATA

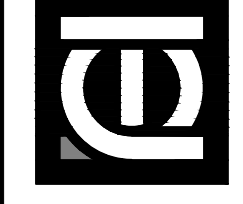
USE GROUP: E
 CONSTRUCTION TYPE: VB
 BUILDING AREA: 1,039 sf
 OCCUPANT LOAD: 20sf/PERSON = 51 OCCUPANTS

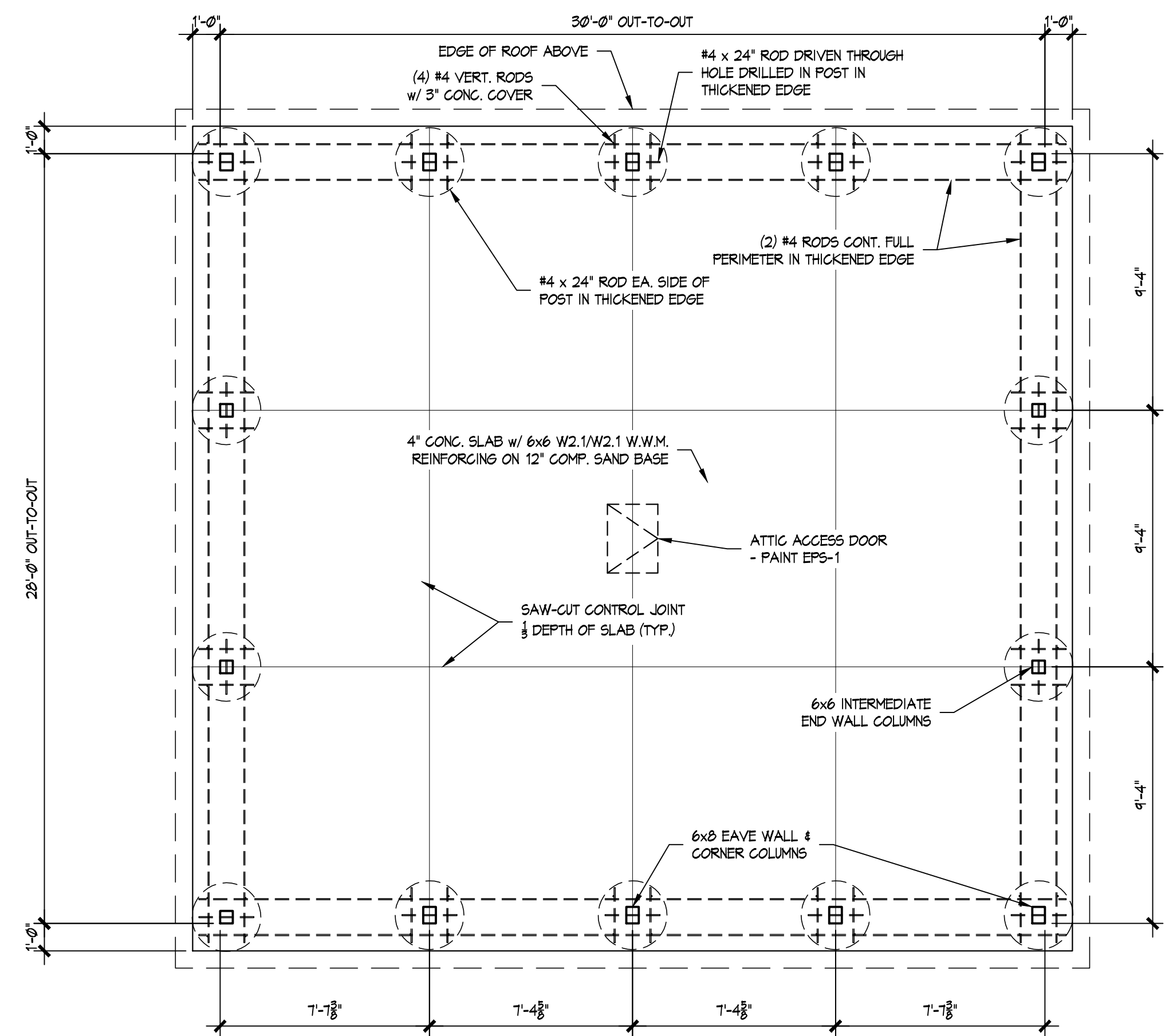


PARTIAL SITE PLAN

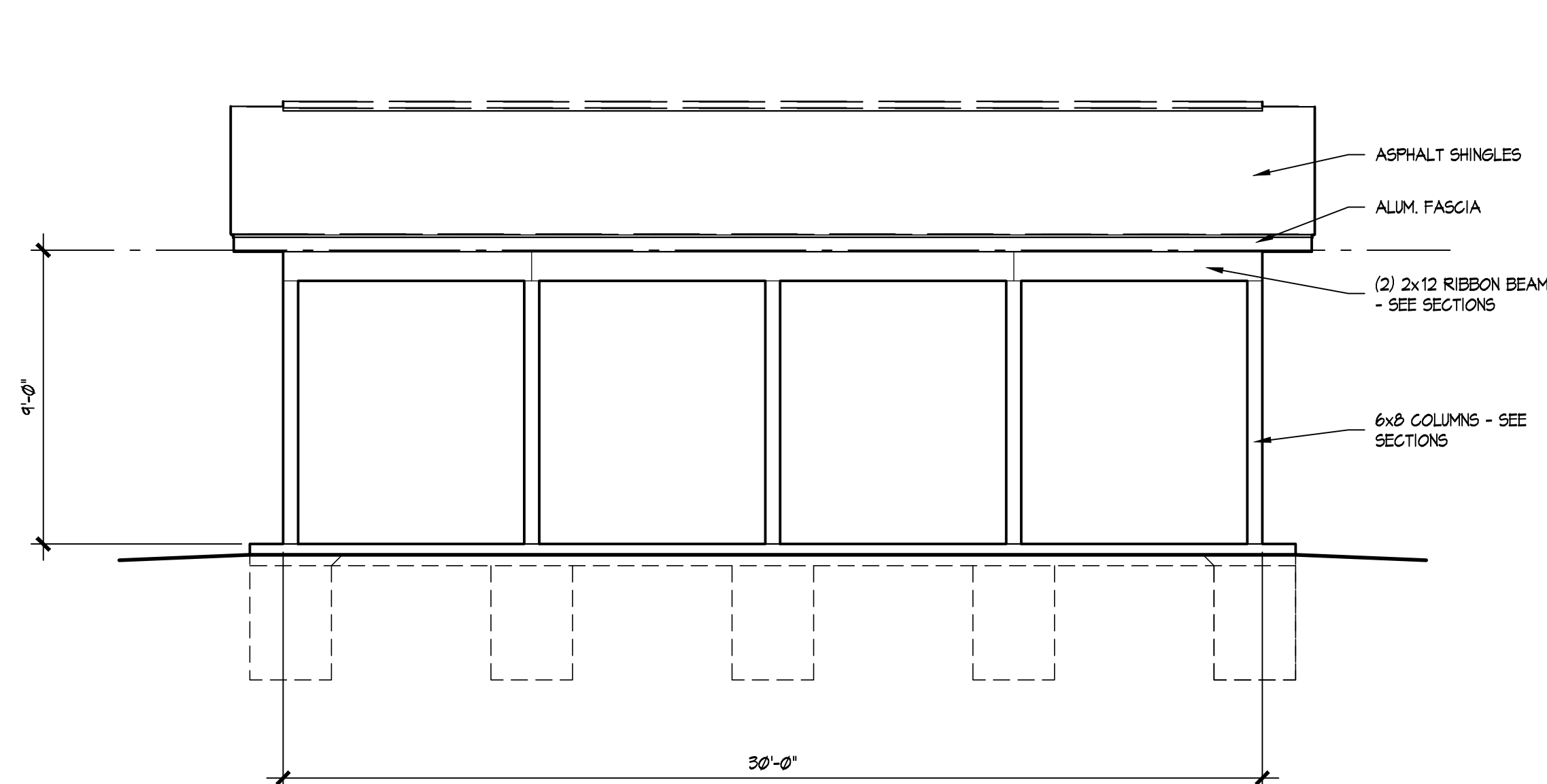
SCALE:

1" = 40'-0"

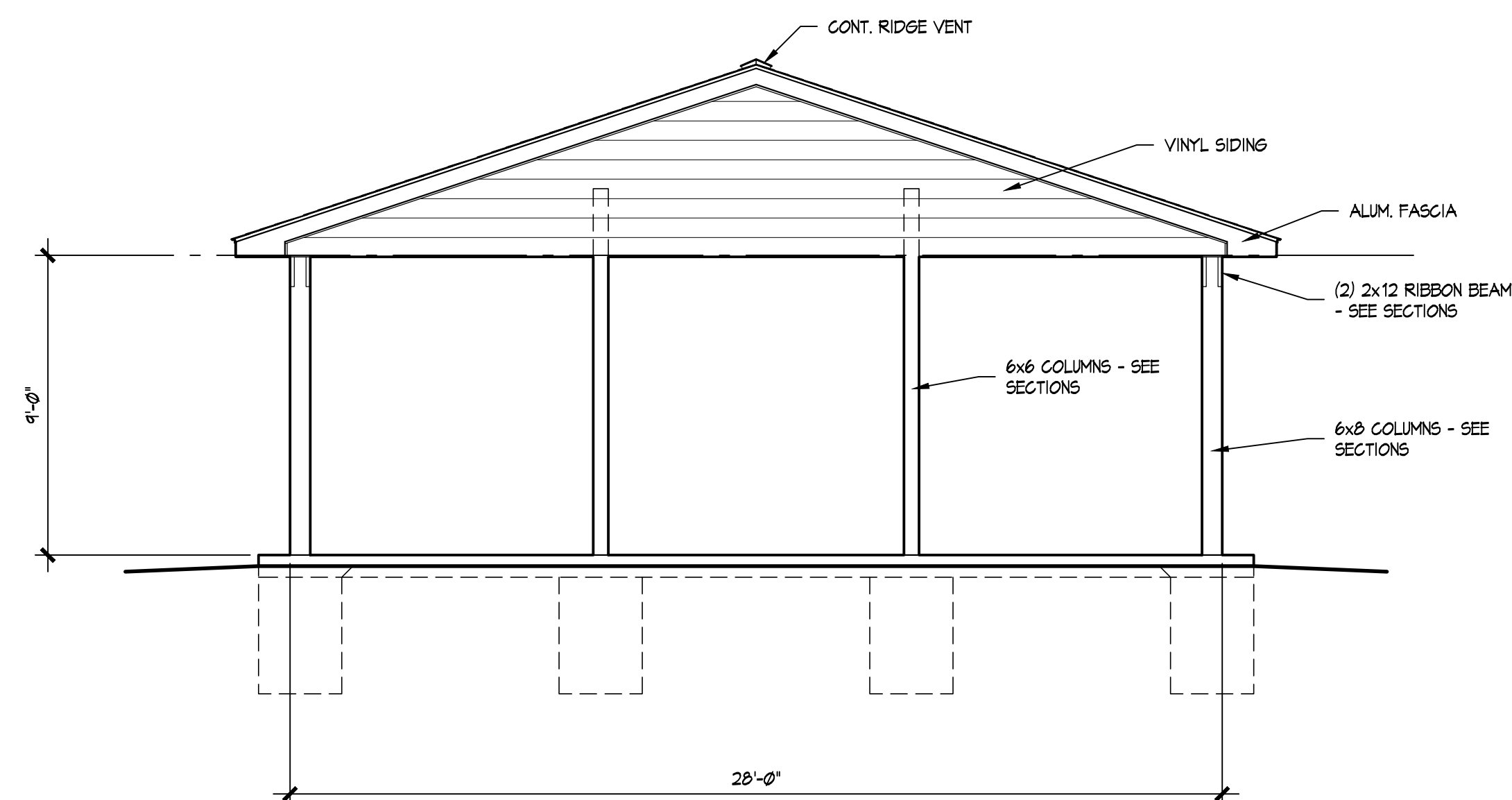




FLOOR PLAN
SCALE: 1/4" = 1'-0"



SIDE ELEVATION
SCALE: 1/4" = 1'-0"



END ELEVATION
SCALE: 1/4" = 1'-0"

BUILDING LOADING & DESIGN VARIABLES	
LIVE LOADS	
ROOF SNOW LOADS	
LOAD TYPE	UNIFORM (PSF)
GROUND SNOW LOAD P _g	50
SLOPED ROOF SNOW LOAD P _s	42.0
UNBALANCED SNOW LOAD @ EAVES	12.6/62.7
SNOW LOAD FACTORS	
SNOW EXPOSURE FACTOR C _e	1.0
SNOW LOAD IMPORTANCE FACTOR I _s	1.0
THERMAL FACTOR C _t	1.2
SLOPED ROOF FACTOR C _s	1.0
WIND LOADS	
LOAD OR VARIABLE	VALUE
BASIC WIND SPEED (3-SECOND GUST)	115 MPH
WIND EXPOSURE CATEGORY	C
EARTHQUAKE DESIGN DATA	
LOAD OR VARIABLE	VALUE
S _s / S ₁	0.040 / 0.27
S ₀ / S _{D1}	0.051 / 0.043
DESIGN CATEGORY	A
SITE CLASS	D
SEISMIC IMPORTANCE FACTOR I _e	1.0
BASIC SEISMIC-FORCE-RESISTING SYSTEM USED	
CANTILEVERED COLUMN - TIMBER FRAME	
NOTES:	
APPLICABLE CODE IS MEC 2015	
LOADS ARE BASED ON SECTION 16 OF MEC 2015 AND ASCE 7-10 UNLESS OTHERWISE NOTED	
SOIL DESIGN LOAD IS 1500 psf	

GENERAL STRUCTURAL NOTES

- THE GENERAL STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS. SHOULD CONFLICTS OCCUR BETWEEN THE DRAWINGS AND/OR THE GENERAL STRUCTURAL NOTES, THE STRICTEST PROVISION SHALL GOVERN.
- THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED, SELF-SUPPORTING, STABLE STRUCTURE UNLESS OTHERWISE INDICATED. THEY DO NOT INDICATE THE MEANS OR METHOD OF CONSTRUCTION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND CONSTRUCTION SEQUENCE AND PROVIDE ALL MEASURES NECESSARY TO ENSURE THE STABILITY AND SAFETY OF THE STRUCTURE AND ITS COMPONENTS THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR EARTH BANKS FORMS, SCAFFOLDING, PLANKING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES AND GIN POLES, ETC.
- THE GOVERNING BUILDING CODE IS THE MICHIGAN BUILDING CODE 2015.
- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL RELEVANT DIMENSIONS AND ELEVATIONS FOR EQUIPMENT INSTALLATIONS AGAINST APPROVED MANUFACTURERS CERTIFIED EQUIPMENT DRAWINGS.
- UNLESS NOTED OTHERWISE, REQUIREMENTS GIVEN FOR ONE OR MORE LOCATIONS ALSO APPLY AT OTHER LOCATIONS AT WHICH CONDITIONS ARE SIMILAR. THE REQUIREMENTS GIVEN SHALL BE ADAPTED TO CONDITIONS AT SUCH OTHER LOCATIONS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE PLANS AND FOR COORDINATION OF SUCH DIMENSIONS AND ELEVATIONS. IN DISCREPANCIES IN THE DIMENSIONS OCCUR, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BRING THE DISCREPANCY TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL NOT MIX GALVANIZED AND STAINLESS STEEL. ANY METAL PARTS IN CONTACT WITH OTHER METAL PARTS SHALL BE OF A SIMILAR MATERIAL.

CAST IN PLACE CONCRETE

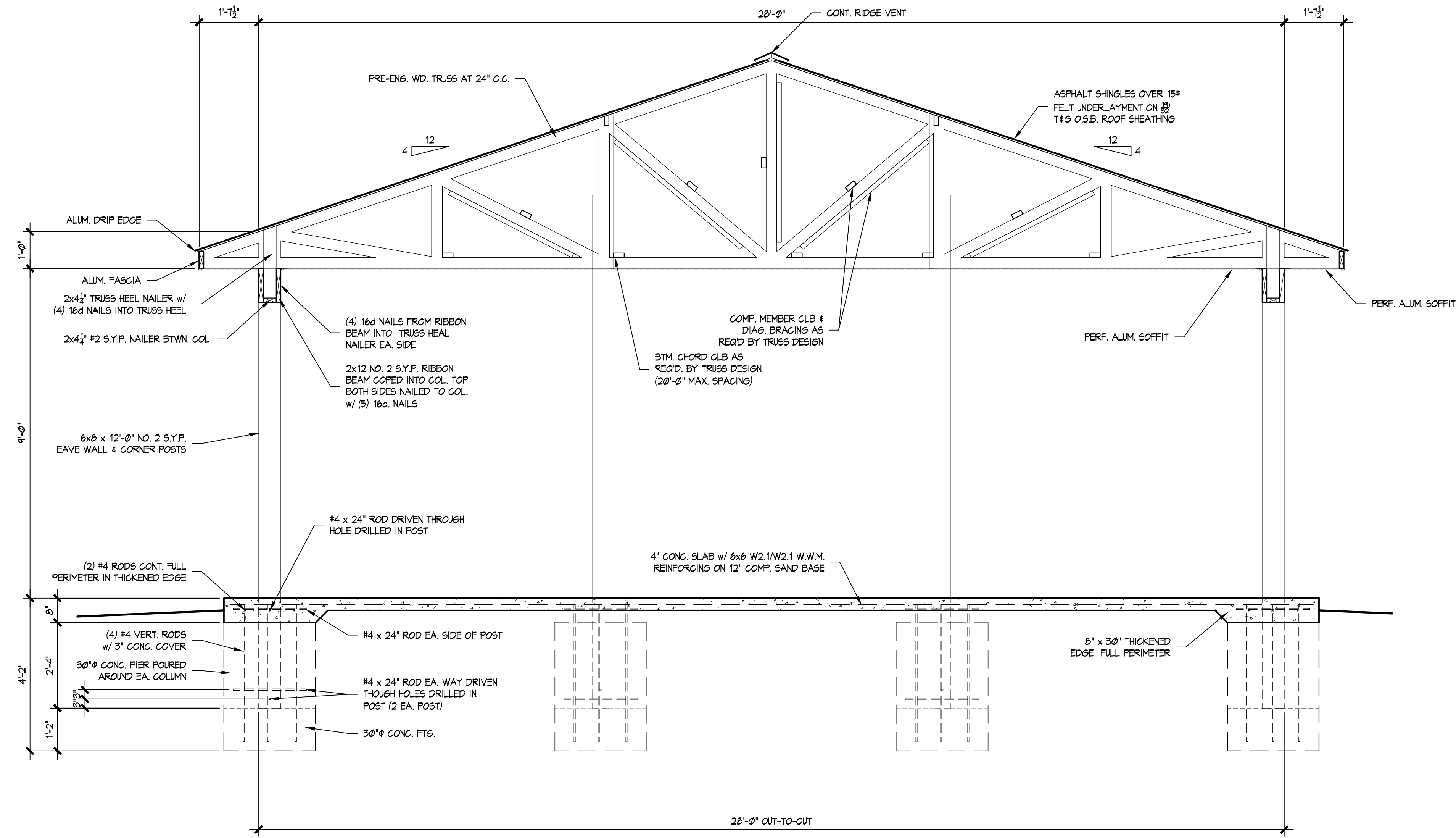
- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ACI 318 CODE REQUIREMENTS AND STANDARDS.
- CONCRETE SHALL BE A MINIMUM F_c AS FOLLOWS:
a. FOOTINGS AND FOUNDATIONS = 4,500 psi AT 28 DAYS, AIR ENTRAINED.
b. SIDEWALK AND SLAB ON GRADE = 3,500 psi AT 28 DAYS, AIR ENTRAINED.
- ALL REBAR SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO ASTM A615 GRADE 60. ALL DETAILS AND ACCESSORIES SHALL CONFORM TO THE LATEST ACI 315 STANDARD DETAILING MANUAL.
- ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- REINFORCEMENT PROTECTION SHALL BE AS FOLLOWS:
CONCRETE POURED AGAINST EARTH 3"
ALL OTHER CONCRETE 2"
- ALL EMBEDDED ITEMS SHALL BE PLACED IN THE FORMWORK PRIOR TO PLACING CONCRETE (U.N.O.), DRILLING AND GROUTING IS ACCEPTABLE SUBJECT TO ARCHITECT APPROVAL.
- ALL EXCAVATED AREAS AROUND STRUCTURES SHALL BE BACKFILLED WITH GRANULAR MATERIAL. ALL FILL SLOPES SHALL BE PLACED IN 12" LAYERS AND COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR METHOD.
- ALL FOOTINGS AND SLABS SHALL BEAR ON SAND COMPACTED TO 98% MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR METHOD.
- FIELD WELDING OF REINFORCEMENT IS NOT PERMITTED WITHOUT WRITTEN CONSENT OF THE ENGINEER.
- FIELD BEND BARS COLD. DO NOT FIELD BEND BARS WITH HEAT OR BARS PARTIALLY EMBEDDED IN CONCRETE.
- ALL EXTERIOR CONCRETE INCLUDING WALLS SHALL BE AIR-ENTRAINED.
- SEE ARCHITECTURAL DRAWINGS FOR ALL FLOOR FINISHES, SLOPES, FLOOR DRAINS, ETC. NOT SHOWN ON FOUNDATION PLANS.

WOOD FRAMING NOTES

- COLUMNS, RIBBON BEAMS AND OTHER WOOD EXPOSED TO WEATHER SHALL BE SP #2 OR BETTER. MISC. FRAMING, BLOCKING AND NAILERS NOT EXPOSED TO WEATHER SHALL BE SP# NO. 2 OR BETTER. LUMBER LABELED PT SHALL BE SP #2 OR BETTER.
- STEEL PLATES OR FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER AND PROTECTED WITHIN THE BUILDING ENVELOPE (ADEQUATELY SHIELDED FROM DIRECT CONTACT WITH MOISTURE) SHALL BE STAINLESS STEEL OR GALVANIZED TO G60 PER ASTM A 924 REQUIREMENTS. STEEL PLATES OR FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER LOCATED OUTSIDE OF THE BUILDING ENVELOPE OR EXPOSED TO MOISTURE SHALL BE STAINLESS STEEL OR GALVANIZED TO G90 PER ASTM A 924.

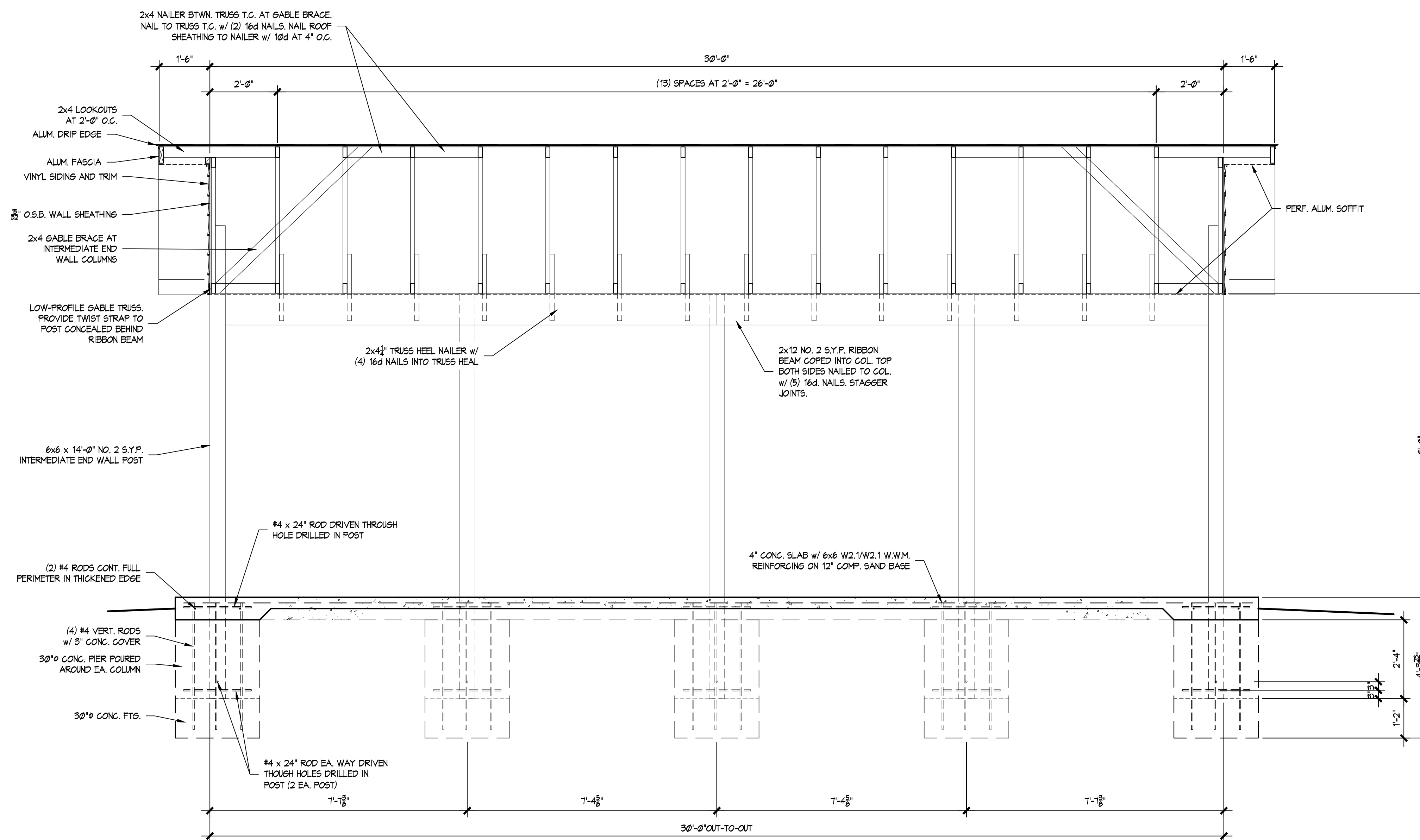
PLATE CONNECTED WOOD TRUSSES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING TRUSSES.
- ALL LUMBER SHALL BE SPF No. 2 OR BETTER EXCEPT AS OTHERWISE NOTED.
- ALL TRUSSES SHALL BE PREMANUFACTURED BY A CERTIFIED TRUSS MANUFACTURER. MANUFACTURER SHALL PROVIDE SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MICHIGAN.
- IN ADDITION TO THE ANY LATERAL BRACING WHICH IS REQUIRED BY THE TRUSS MANUFACTURER/SUPPLIER, THE CONTRACTOR SHALL PROVIDED AND INSTALL PERMANENT DIAGONAL STABILITY BRACING FOR ALL COMPRESSION WEBS AND PRIMARY TOP CHORDS OF PIGGY BACK TRUSSES OR OTHER MEMBERS WHICH REQUIRE BRACING TO REDUCE THEIR BUCKLING LENGTH. THIS BRACING SHALL CONSIST OF 2x4's ATTACHED TO EACH WEB MEMBER WITH NOT LESS THAN 2-16d NAILS. BRACING SHALL EXTEND ON A 45 DEGREE DIAGONAL FROM THE TOP TO BOTTOM OF THE WEBS. FOR EACH BRACED MEMBER, DIAGONALS SHALL BE INSTALLED IN CHEVRON PAIRS WITH ONE PAIR OF DIAGONALS AT EACH END OF THE SERIES OF TRUSSES AND NOT MORE THAN 20 FEET BETWEEN PAIRS.



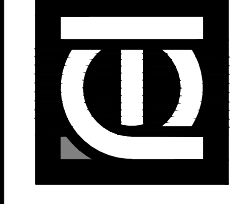
CROSS SECTION

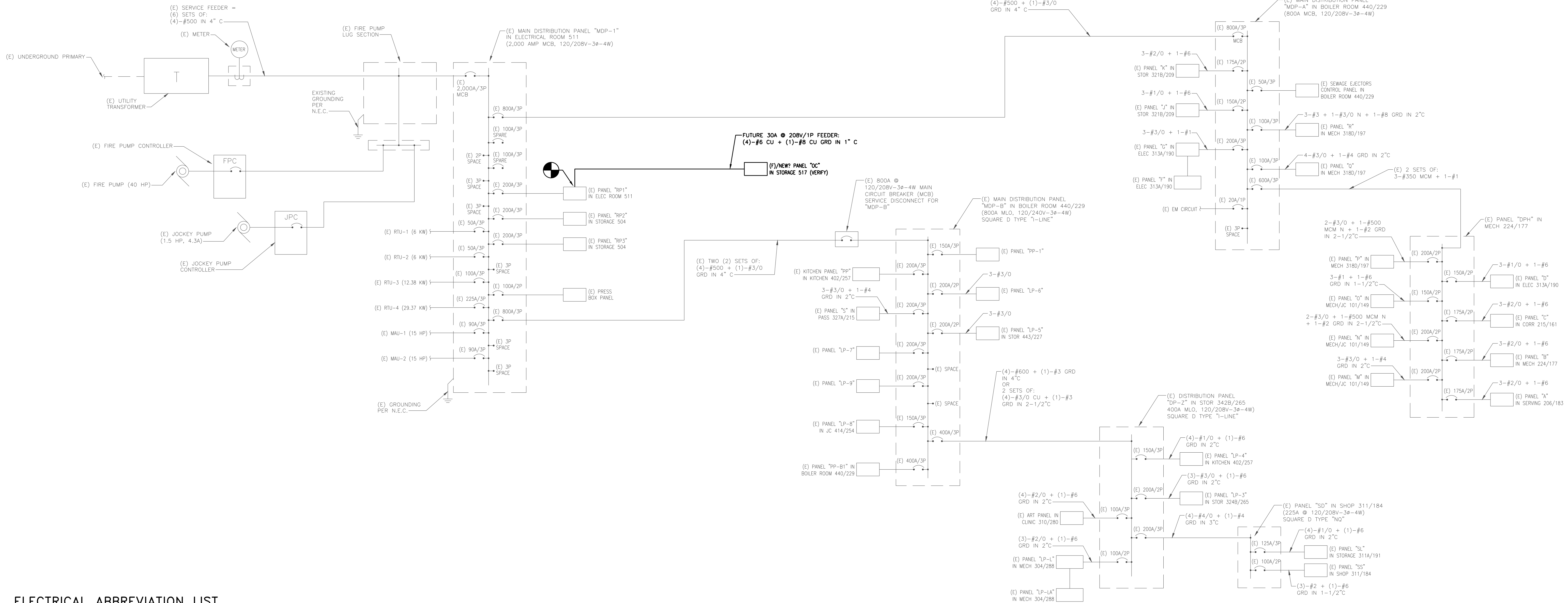
SCALE: 1/2" = 1'-0"



LONGITUDINAL SECTION

SCALE: 1/2" = 1'-0"





ELECTRICAL ABBREVIATION LIST

ABBREVIATION	DESCRIPTION
A	AMPS
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
COORD	COORDINATE
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
DWG	DRAWING
(E)	EXISTING
EBU	EMERGENCY BATTERY UNIT
E.C.	ELECTRICAL CONTRACTOR
EML	EMERGENCY LIGHT
EMT	ELECTRICAL METALLIC TUBING
(F)	FUTURE
F.A.	FIRE ALARM SUBCONTRACTOR
FLA	FULL LOAD AMPS
FU	FUSE
GFI	GROUND FAULT INTERRUPTER
GRD	GROUND
GRS	GALVANIZED RIGID STEEL
HOA	HAND-OFF-AUTO
HP	HORSE POWER
HZ	HERTZ
JB	JUNCTION BOX
KW	KILOWATT
LC	LIGHTING CONTROLLER
LP	LIGHTING PANEL
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MFS	MAX FUSE SIZE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTR	MOTOR
NC	NORMALLY CLOSED
N.E.C.	NATIONAL ELECTRIC CODE
NF	NON-FUSIBLE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
P-A	PANEL "A"
PRI	PRIOR TO ROUGH-IN
(R)	RELOCATED
RECEPT	RECEPTACLE
SPEC	SPECIFICATION
SS	STAINLESS STEEL
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TELECOM	TELECOMMUNICATIONS
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
U/G	UNDERGROUND (BELOW GRADE)
V	VOLTS
W	WATTS
WG	WIRE GUARD
WP	WEATHERPROOF
WR	WEATHER-RESISTANT
XFMR	TRANSFORMER

ELECTRICAL 1-LINE DIAGRAM
NO SCALE

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
(FA)	FIXTURE TYPE	(M)	SINGLE PHASE MOTOR
(P)	PENDANT OR SURFACE MOUNTED LIGHT FIXTURE	(3M)	THREE PHASE MOTOR
(E)	PENDANT OR SURFACE MOUNTED EMERGENCY LIGHT FIXTURE	(MS)	COMBINATION MOTOR STARTER WITH DISCONNECT SWITCH
(EL)	EMERGENCY LIGHTING UNIT	(VSD)	VARIABLE SPEED DRIVE COMBINATION MOTOR STARTER WITH DISCONNECT SWITCH
(EEL)	EXIT LIGHTING FIXTURE WITH EMERGENCY EGRESS LIGHTING AND BATTERY	(NF)	NON-FUSABLE DISCONNECT SWITCH
(EEL)	REMOTE EMERGENCY EXIT DISCHARGE LIGHT	(F)	FUSIBLE DISCONNECT SWITCH
(S)	SINGLE POLE TOGGLE SWITCH	(SM)	HORSE POWER RATED SWITCH
(S3)	3-WAY TOGGLE SWITCH	(JB)	JUNCTION BOX
(S3)	OCCUPANCY SENSOR WALL SWITCH	(HW)	HARD WIRE POWER CONNECTION
(S)	VACANCY SENSOR WALL SWITCH	(HWC)	HARD WIRE CONNECTION AT FLOOR BOX
(S)	LIGHTING CONTROLLER/CONTRACTOR	(C)	CONDUIT UP
(C)	CONTRACTOR	(CD)	CONDUIT DOWN
A-3	CIRCUIT HOMERUN TO PANEL "A" CIRCUIT #3	(R)	DUPLEX RECEPTACLE
(P)	PANEL (P = <240V)	(R48)	DUPLEX RECEPTACLE MOUNTED AT 48" ABOVE FLOOR (UNLESS NOTED OTHERWISE) - SIMILAR FOR ISOLATED GROUND, EMERGENCY AND GFI RECEPTACLES
(MCP)	MOTOR CONTROL CENTER OR SWITCHBOARD	(R6)	DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTERTOP OR AS REQUIRED TO ACCOMMODATE COUNTERS - REFER TO ARCHITECTURAL ELEVATIONS
(T)	TRANSFORMER	(RWF)	DUPLEX RECEPTACLE - WEATHER-RESISTANT (WR) RECEPTACLE IN WEATHERPROOF ENCLOSURE
(M)	UTILITY METER	(GFI)	DUPLEX RECEPTACLE - GROUND FAULT INTERRUPTER
(UC)	UTILITY CT CABINET	(GFI)	DUPLEX RECEPTACLE - GROUND FAULT INTERRUPTER - MOUNTED 6" ABOVE COUNTERTOP OR AS REQUIRED TO ACCOMMODATE COUNTERS - REFER TO ARCHITECTURAL ELEVATIONS
(CB)	CIRCUIT BREAKER	(GFI)	DUPLEX RECEPTACLE - GROUND FAULT INTERRUPTER (WR) RECEPTACLE IN WEATHERPROOF ENCLOSURE
(S)	SWITCH	(R)	SPECIAL RECEPTACLE - NEMA CONFIGURATION AS NOTED
(S)	AUTOMATIC OR MANUAL TRANSFER SWITCH	(R)	
(F)	FUSE	(R)	
(T)	TRANSFORMER	(R)	
(M)	NODE	(R)	
(G)	GROUND	(R)	
(TVSS)	TRANSIENT VOLTAGE SURGE SUPPRESSION	(R)	

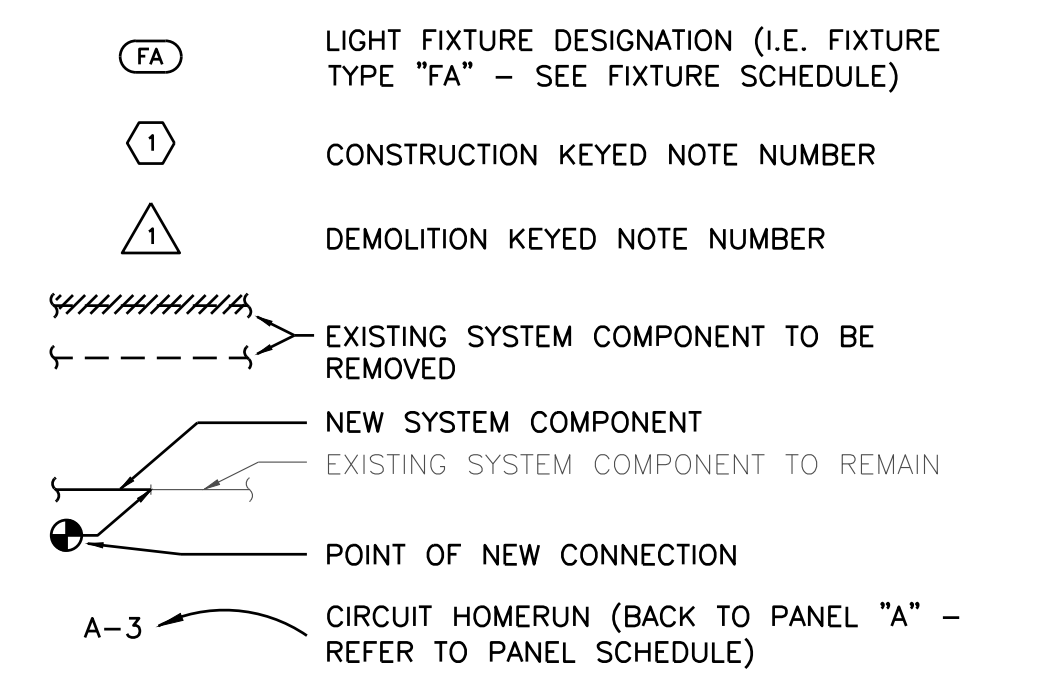
GENERAL ELECTRICAL DEMOLITION NOTES:

- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE EXTENT OF DEMOLITION WORK SHALL BE AS REQUIRED BY THE NEW WORK.
- THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING SYSTEMS/EQUIPMENT PRIOR TO ISSUING HIS BID. ALL EXISTING PANEL/WIRE/LIGHT SIZES AND ROUTINGS SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED.
- ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE, AT LEAST (7) DAYS IN ADVANCE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING OPERATION.
- WHERE DEMOLITION OF EXISTING SERVICES ARE REQUIRED TO ACCOMMODATE THE PROJECT PHASING/SCHEDULING, AND SERVICES ARE TO BE INTERRUPTED IN AREAS THAT ARE REMAINING OCCUPIED, THE CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES/CONNECTIONS TO THE OCCUPIED AREAS TO MAINTAIN ITS PRESENT OPERATION. IF SYSTEM SHUT DOWNS ARE REQUIRED, THE CONTRACTOR SHALL SCHEDULE WORK TO BE PERFORMED AT UNOCCUPIED HOURS.
- ALL ITEMS TO BE REMOVED AND/OR RELOCATED SHALL BE REMOVED AND/OR RELOCATED TOGETHER WITH ALL RELATED ITEMS AS REQUIRED BY THE NEW WORK TO BE PERFORMED.
- CONTRACTOR SHALL COORDINATE ALL REMOVAL AND/OR RELOCATION WITH THE EXTENT OF THE NEW WORK AND WITH ALL OTHER TRADES INVOLVED.

GENERAL ELECTRICAL POWER, AUXILIARY, & LIGHTING NOTES:

- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIALS (I.E. CONDUIT, WIRE, PULL BOXES, FIXTURES, ETC.) REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- ALL ELECTRICAL SYSTEMS SHALL BE PROVIDED/INSTALLED TO MEET APPLICABLE BUILDING CODES: MICHIGAN BUILDING CODE, MICHIGAN ELECTRICAL CODE, N.E.C., LIFE SAFETY CODE NFPA 101, MICHIGAN ENERGY CODE, ETC.
- INSTALL ALL MISCELLANEOUS STEEL, STRUT, ETC. REQUIRED TO SUPPORT/HANG EQUIPMENT, CONDUIT, ETC. COORDINATE ATTACHMENTS WITH STRUCTURAL TRADES.
- ALL CIRCUITS FOR POWER, LIGHTING, FIRE ALARM, ETC. SHALL BE INSTALLED IN CONDUIT AS SPECIFIED. ALL CIRCUITS SHALL BE CONCEALED IN WALLS, INCLUDING (E) WALLS. SURFACE MOUNTED RACEWAY SHALL NOT BE USED, UNLESS NOTED OTHERWISE, OR UNLESS ABSOLUTELY NECESSARY. APPROVAL FROM ARCHITECT/ENGINEER MUST BE OBTAINED PRIOR TO USING SURFACE MOUNTED CONDUIT.
- EACH SUBCONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING ANY/ALL CEILING TILES AND/OR GRID ASSOCIATED WITH THEIR WORK. THE RESPONSIBLE CONTRACTOR SHALL REPLACE/REPAIR ALL CEILING TILES AND/OR GRID DAMAGED DURING THE CONSTRUCTION WITH NEW CEILING TILES.
- COORDINATE EXACT FIXTURE LOCATIONS WITH ARCHITECTURAL PLANS (REFLECTED CEILING PLANS, BUILDING ELEVATIONS ETC.).
- ALL NIGHT LIGHTS, EMERGENCY LIGHTS, AND EXIT LIGHTS SHALL BE CIRCUITED TO UNSWITCHED/HOT LEG OF THE GENERAL LIGHTING CIRCUIT OF THE AREA SERVED BY THE NIGHT/EMERGENCY/EXIT LIGHTS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ROUGH-INS (IE BOXES, CONDUIT, ETC.) FOR AUXILIARY ELECTRICAL SYSTEMS (IE FIRE ALARM, TELECOM, SECURITY, ETC.). COORDINATE REQUIREMENTS WITH AUXILIARY ELECTRICAL SUB-CONTRACTORS PRIOR TO ISSUE OF BID AND VERIFY ALL WORK REQUIRED.

METHODS OF NOTATION



ELECTRICAL DRAWING INDEX

- EO.1 ELECTRICAL TITLE SHEET
- E1.1 ELECTRICAL PLAN

BRANCH CIRCUIT WIRE SIZE/LENGTH SCHEDULE

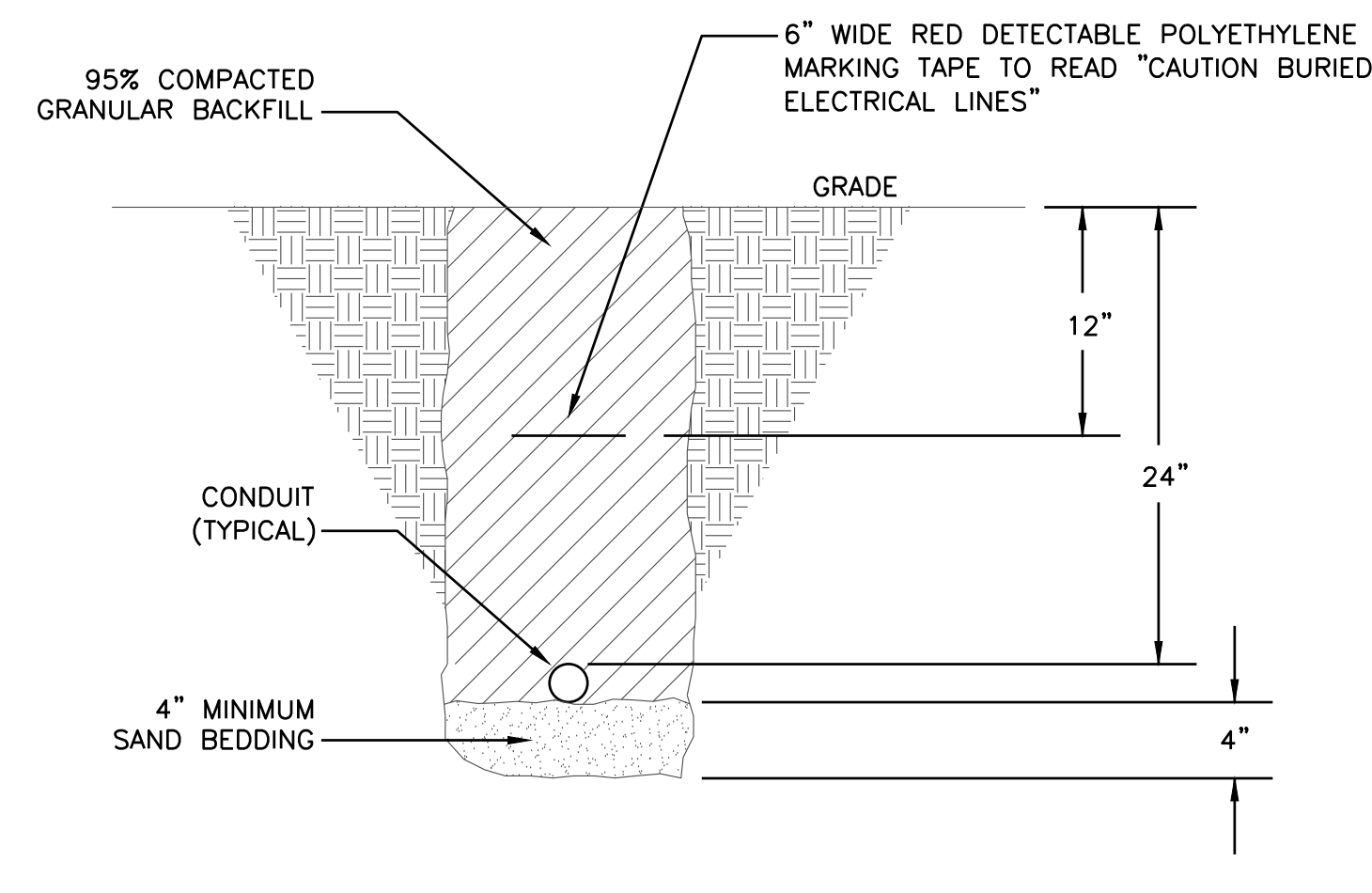
MAX BRANCH CIRCUIT (AMPS)	50	75	100	125	150	300
15	#12	#10	#10	#8	#6	#4
20	#10	#10	#8	#6	#6	#3
30	#8	#8	#6	#4	#4	#1

- NOTES:
 1. REFER TO SPECIFICATIONS FOR WIRE TYPE.
 2. SCHEDULE IS BASED UPON A MAX 3% VOLTAGE DROP ON 115-120V/1Ø CIRCUITS.
 3. FOR LENGTHS BETWEEN TABLED VALUES - USE LONGER LENGTH.

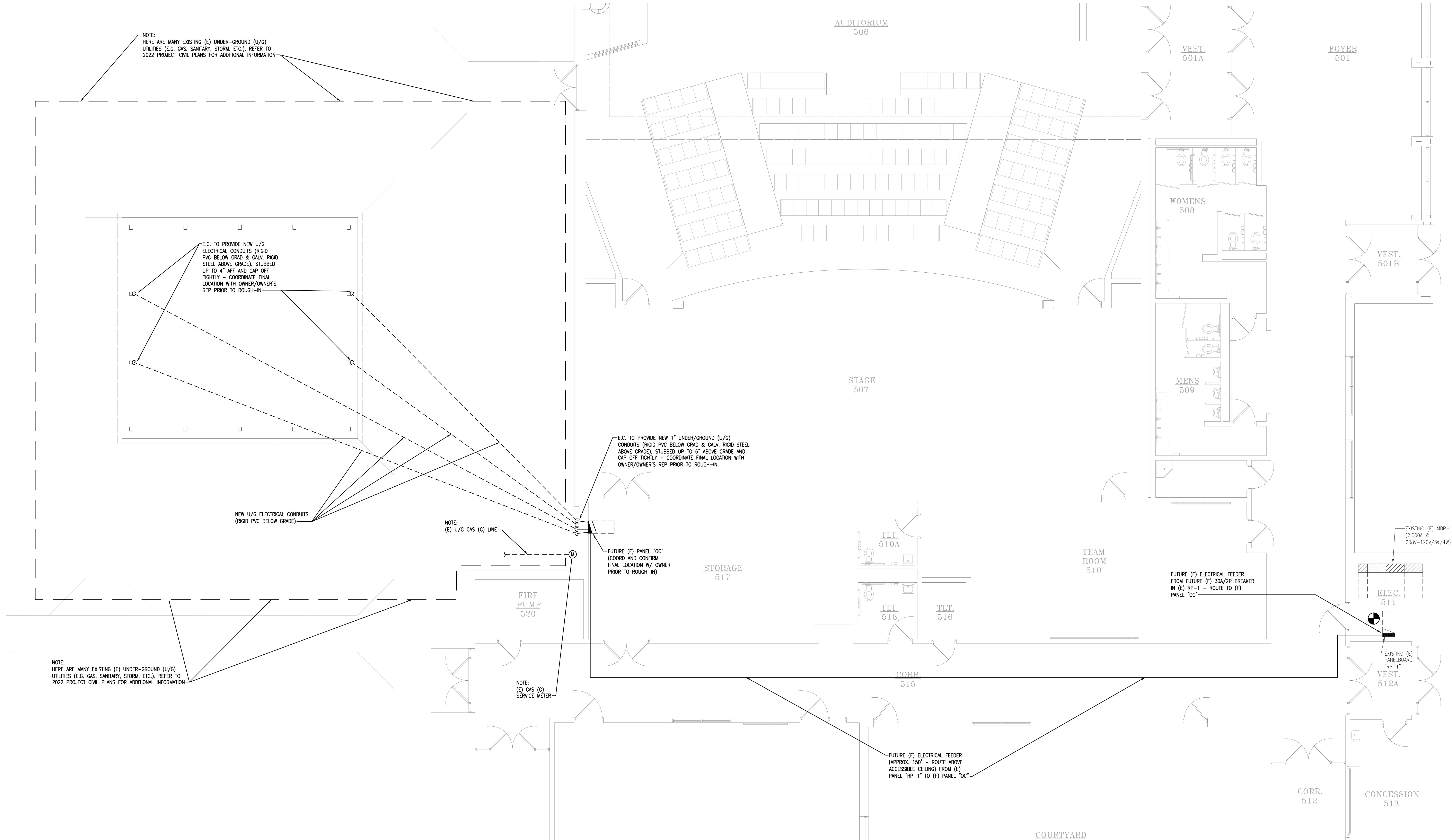
BRANCH CIRCUIT WIRE SIZE/LENGTH SCHEDULE

MAX BRANCH CIRCUIT (AMPS)	50	75	100	125	150	< 300
15	#10	#10	#10	#10	#8	#4
20	#10	#10	#10	#8	#6	#4
30	#8	#8	#6	#6	#4	#2

- NOTES:
 1. REFER TO SPECIFICATIONS FOR WIRE TYPE.
 2. SCHEDULE IS BASED UPON A MAX 3% VOLTAGE DROP ON 208-240V/1Ø CIRCUITS.
 3. FOR LENGTHS BETWEEN TABLED VALUES - USE LONGER LENGTH.



ELECTRICAL CONDUIT TRENCHING DETAIL
NO SCALE



ELECTRICAL NEW WORK PLAN
SCALE: 3/16" = 1'-0"

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 GAYLORD, MICHIGAN
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DRAWING TITLE: **ELECTRICAL NEW WORK PLAN**
 PROJECT TITLE: **JOHANNESBURG LEWISTON AREA SCHOOLS - 2024 SUMMER PROJECTS**
JOHANNESBURG BUILDING OUTDOOR CLASSROOM
 PROJECT NO.: **219-24E-3**
 DATE: **MAY 1, 2024**
 SHEET: **E1.1**

JLK Engineering\Projects\2024\219-24E-3\219-24E-3_01.dwg, 5/1/2024 10:51:11 AM, AutoCAD 2024