

\\employees.root.local\ENV\ECO\Richmond\Projects\2024\626503 - Fluvanna Burn Building\CAD\04-STR\CAD\626503 - Fluvanna Burn Building - STR (24).rvt

GENERAL STRUCTURAL NOTES AND SPECIFICATIONS

DESIGN CRITERIA:

1.

DESIGNED UNDER THE PROVISIONS OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE(VUSBC) 2018/INTERNATIONAL BUILDING CODE(IBC) 2018/ASCE 7-16
2.

DESIGN LOADS PER PRE-ENGINEERED BUILDING ENGINEER. BASIS OF BID IS DRAWINGS BY DRAGER.
3.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER TRADES DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL COMPARE AND VERIFY STRUCTURAL DRAWINGS AND SPECIFICATIONS w/ ARCHITECTURAL AND ALL OTHER TRADES DWGS, SPECIFICATIONS, AND REQUIREMENTS AND REPORT ANY DISCREPANCY TO THE STRUCTURAL ENGINEER AND DESIGN TEAM PRIOR TO DEMOLITION, FABRICATION, AND /OR INSTALLATION OF ANY STRUCTURAL MEMBERS.
4.

NO LOADS IN EXCESS OF DESIGN LOADS LISTED SHALL BE PLACED ON ANY AREA DURING CONSTRUCTION UNLESS ADEQUATE SHORING OR OTHER METHOD IS APPROVED TO SUPPORT THE EXCESSIVE LOADS. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE UNTIL PERMANENT BRACING IS COMPLETED.
5.

WHERE ALIGNMENT OF MATERIALS SUCH AS WALLS AND FACING MATERIALS WILL BE AFFECTED BY DEFLECTIONS AND ROTATIONS OF THE STRUCTURE DURING PLACEMENT OF THE MATERIALS, PROCEDURES SHALL BE USED WHICH WILL ASSURE THE CORRECT FINAL POSITIONS OF MATERIALS.
6.

ALL NOTES ON STRUCTURAL DRAWINGS SHALL BE ASSUMED TYPICAL UNLESS NOTED OTHERWISE ON DRAWINGS OR SPECIFICATIONS.
7.

SECTIONS AND DETAILS ARE TO BE USED IN ALL SIMILAR LOCATIONS UNLESS OTHERWISE SHOWN BY OTHER DETAILS AND/OR SECTIONS.
8.

SEE ARCHITECTURAL DRAWINGS FOR WEATHERPROOFING DETAILS.
9.

THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION OF CONSTRUCTION OF THE PROJECT AND THEN, ONLY TO SUPPORT THE DESIGN LOADS INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION AND FOR THE ADEQUACY OF THE STRUCTURE TO SUPPORT LOADS OCCURRING DURING CONSTRUCTION. FURNISH ALL TEMPORARY BRACING, SHORING, AND/OR SUPPORT AS REQUIRED.
10.

CHECK ALL DIMENSIONS AGAINST THE REQUIREMENTS OF OTHER CONTRACT DOCUMENTS. RESOLVE APPARENT INCONSISTENCIES IN THE CONTRACT DOCUMENTS WITH THE ARCHITECT/ ENGINEER BEFORE PROCEEDING WITH WORK.
11.

PROMPTLY NOTIFY THE ENGINEER OF ANY STRUCTURAL MEMBER CALLED OUT ON THE ARCHITECTURAL, MECHANICAL, PLUMBING, OR ELECTRICAL DRAWINGS THAT IS NOT IDENTIFIED ON THE STRUCTURAL DRAWINGS.
12.

WHERE CONFLICT EXISTS AMONG THE VARIOUS PARTS OF THE ENTIRETY OF THE STRUCTURAL SUBMITTAL (CONTRACT DOCUMENTS, STRUCTURAL DRAWINGS, GENERAL NOTES, SPECIFICATIONS, SECTIONS, ETC.) THE STRICTEST REQUIREMENTS, AS INDICATED BY THE STRUCTURAL ENGINEER, SHALL GOVERN, U.N.O.

SUBMITTALS FOR APPROVAL:

CONCRETE:

- PRODUCT DATA: FOR EACH TYPE OF PRODUCT.
- DESIGN MIXTURES: FOR EACH CONCRETE MIXTURE.
- STEEL REINFORCEMENT SHOP DRAWINGS: PLACING DRAWINGS THAT DETAIL FABRICATION, BENDING, AND PLACEMENT.

PRE-ENGINEERED BURN BUILDING:

- PRODUCT DATA: FOR EACH TYPE OF BUILDING SYSTEM COMPONENT.
- SHOP DRAWINGS: INDICATE COMPONENTS BY OTHERS. INCLUDE FULL BUILDING PLAN, ELEVATIONS, SECTIONS, DETAILS AND ATTACHMENTS TO OTHER WORK.
- SAMPLES: FOR UNITS WITH FACTORY-APPLIED FINISHES.
- DELEGATED-DESIGN SUBMITTAL: FOR BURN BUILDING SYSTEMS.
 - INCLUDE ANALYSIS DATA INDICATING COMPLIANCE WITH PERFORMANCE REQUIREMENTS AND DESIGN DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

SPECIAL INSPECTIONS:

1.

SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH CHAPTER 17 OF THE 2018 INTERNATIONAL BUILDING CODE. AN APPROVED SPECIAL INSPECTION AGENCY SHALL BE PROVIDED BY THE OWNER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL INSPECTION PROCEDURES WITH THE OWNER AND THE OWNER'S AGENT. A FINAL REPORT OF INSPECTIONS DOCUMENTING COMPLETION OF ALL WORK SHALL BE SUBMITTED TO THE CODE OFFICIAL.
2.

SPECIAL INSPECTIONS FOR CONCRETE CONSTRUCTION SHALL MEET REQUIREMENTS OF SECTION 1705.3 AND TABLE 1705.3.

DIVISION 3:

CONCRETE NOTES:

1.

ALL DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL, FORM WORK, MIXING, HANDLING, PLACING, FINISHING, AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH CURRENT EDITIONS OF ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI-315) AND ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI-318).
2.

CONCRETE SHALL CONFORM TO ASTM C94. MINIMUM STRENGTH AT 28 DAYS SHALL BE 3000 PSI FOR FOOTING CONCRETE AND 4000 PSI FOR ALL OTHER CONCRETE. FOR CONCRETE OTHER THAN SLABS ON GRADE, MAXIMUM WATER-TO-CEMENT RATIO SHALL BE 0.60 WITH MAXIMUM SLUMP OF 4 INCHES. MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4 INCH, AND ALL AGGREGATES SHALL CONFORM TO ASTM C33.
3.

ELEVATED CONCRETE SLABS SHALL HAVE FF = 25, MINIMUM. CONCRETE SLABS ON GRADE SHALL BE FINISHED TO THE FOLLOWING TOLERANCES:

FF=25FL=20

MINIMUM LOCALIZED:FF=15FL=10
4.

EXTERIOR CONCRETE SHALL BE AIR ENTRAINED, AIR CONTENT TO BE BETWEEN 5 AND 7 PERCENT BY VOLUME.
5.

ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 (S1), NEW BILLET STEEL DEFORMED BARS, GRADE 60. UNLESS NOTED OTHERWISE, ALL REINFORCING BAR SPLICES SHALL BE ACI CLASS B TENSION LAP SPLICES, U.N.O. WELDED WIRE FABRIC (W.W.F.) SHALL MEET ASTM A1064. MINIMUM W.W.F. LAP AT SPLICES SHALL BE 8 INCHES.
6.

THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT NEAREST THE DESCRIBED SURFACE, UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:3 INCHES

CONCRETE EXPOSED TO EARTH OR WEATHER:

#6 OR LARGER BARS:2 IN.

#5 OR SMALLER BARS:1-1/2 IN.

CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:

SLABS, WALLS AND JOISTS:

#11 BAR AND SMALLER:3/4 IN.

BEAMS AND COLUMNS:STIRRUPS AND TIES:1-1/2 IN.

7.

SEE S3.0 FOR CONSTRUCTION JOINTS DETAILS IN SLABS ON GRADE. W.W.F. DOES NOT EXTEND THROUGH CONSTRUCTION JOINTS IN SLABS ON GRADE.

8.

COORDINATE LOCATIONS AND DEPTHS OF ALL FLOOR SLAB DEPRESSIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

9.

UNLESS NOTED OTHERWISE, SLABS ON GRADE SHALL HAVE EITHER CONSTRUCTION JOINTS OR SAW CUT JOINTS SPACED SO THE JOINTS FORM PANELS IN THE SLAB WITH NO SLAB PANEL GREATER THAN 144 SQUARE FEET NOR MORE THAN 12 FEET IN ANY ONE DIRECTION. INSTALL SAW CUT CONSTRUCTION JOINTS AS SOON AS THE SLAB IS CAPABLE OF BEING SAWN WITHOUT RAVELING, BUT IN NO CASE LATER THAN 8 HOURS AFTER FINAL FINISHING BEGINS. CONTRACTOR TO SUBMIT ONE PLAN SHOWING CONSTRUCTION AND CONTROL JOINT LAYOUT FOR ALL SLABS ON GRADE.

10.

INTERIOR SLAB CONCRETE SHALL RECEIVE A STEEL TROWEL FINISH. IMMEDIATELY FOLLOWING FINISHING, THE CONCRETE SHALL BE PROTECTED FROM PREMATURE OR EXCESSIVE DRYING, TEMPERATURE EXTREMES AND INJURY.

11.

CAST SIX CYLINDERS OF EACH CONCRETE POUR. TEST TWO CYLINDERS SEVEN DAYS AFTER CASTING AND TWO 28 DAYS AFTER CASTING. HOLD TWO CYLINDERS FOR POSSIBLE TEST UNTIL 60 DAYS AFTER CASTING. DISPOSE OF CYLINDERS IF TEST IS NOT REQUESTED. SEND REPORTS TO ARCHITECT, CONTRACTOR AND STRUCTURAL ENGINEER.
- DIVISION 31:
- FOUNDATION EARTHWORK NOTES:
- THE GEOTECHNICAL ENGINEERING EVALUATION AND REPORT FOR THE PROPOSED FLUVANNA FIRE DEPARTMENT SAFETY TRAINING BUILDING IN FLUVANNA COUNTY, VIRGINIA WAS PREPARED BY "UNDERHILL ENGINEERING" DATED OCTOBER 25, 2018. THE RECOMMENDATIONS OF THIS REPORT SHALL BE IMPLEMENTED ON THIS PROJECT UNLESS NOTED OTHERWISE.
1.

FOOTING SIZES AND ELEVATIONS ARE BASED ON AN ALLOWABLE SAFE SOIL BEARING CAPACITY OF 2,500 PSF. FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR STRUCTURALLY COMPACTED FILL OF AT LEAST THIS WORKING SAFE CAPACITY. IF SOIL OF THIS QUALITY IS NOT FOUND AT THE ELEVATIONS INDICATED, FOOTINGS MAY NEED TO BE LOWERED OR ENLARGED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER.

2.

WHERE FOOTING ELEVATION IS NOT NOTED OR DETAILED, TOP OF FOOTING SHALL BE 2'-0" BELOW FINISHED GRADE OR AS REQUIRED TO ACCOMMODATE UNDER-SLAB UTILITIES, AS REQUIRED BY SOIL BEARING CONDITIONS OR AS REQUIRED TO MATCH EXISTING BEARING CONDITIONS.

3.

FOOTINGS SHOWN ON PLAN ARE DIAGRAMMATIC ONLY. SEE FOOTING SCHEDULE FOR SIZE AND REINFORCEMENT OF EACH FOOTING.

4.

FOUNDATION PREPARATION SHALL BE PERFORMED IN ACCORDANCE WITH RECOMMENDATIONS MADE BY PROJECT GEOTECHNICAL ENGINEER.

5.

ALL STRUCTURALLY COMPACTED FILL SHALL BE PER GEOTECHNICAL REPORT.

6.

ALL FOUNDATION EXCAVATIONS SHALL BE OBSERVED BY THE PROJECT GEOTECHNICAL ENGINEER, AND APPROVED FOR FOOTINGS, PRIOR TO PLACING CONCRETE. ALL FOUNDATIONS SHALL BE CONCRETED PROMPTLY FOLLOWING INSPECTION.

7.

THE HORIZONTAL DISTANCE BETWEEN STEPS IN WALL FOOTINGS SHALL BE AT LEAST TWO TIMES THE CHANGE IN ELEVATION.

8.

CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING CONSTRUCTION TO DIRECT WATER AWAY FROM FOUNDATION CONSTRUCTION AREAS. ANY SUB-GRADE SOILS WEAKENED BY THROUGH SATURATION OR DISTURBANCE SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.

9.

CONTRACTOR SHALL COORDINATE EXTERIOR SITE WORK, INCLUDING STEPS, WALKS, WALLS, AND FINISHED GRADES, WITH FOUNDATION WORK.

10.

CENTERLINE OF FOOTING = CENTERLINE OF COLUMN BASE PLATE = CENTERLINE OF ANCHOR BOLT PATTERN, UNLESS NOTED OTHERWISE.

11.

BACKFILL AGAINST WALLS SPANNING VERTICALLY SHALL NOT BE PLACED, WHERE POSSIBLE, UNTIL ALL FLOORS AGAINST THOSE WALLS ARE IN PLACE AND AT FULL DESIGN STRENGTH. IF FLOORS CANNOT BE PLACED BEFORE FILL, WALLS SHALL BE ADEQUATELY BRACED TO PREVENT OVERSTRESSING OR MOVEMENT.

12.

ALL MASONRY AND CONCRETE WALLS BELOW GRADE SHALL BE BACKFILLED ON BOTH SIDES OF WALL SIMULTANEOUSLY.
- PRE-ENGINEERED BURN BUILDING SYSTEM NOTES:
1.

PRE-ENGINEERED METAL BUILDING SYSTEM TO BE DESIGNED AND FABRICATED TO MEET THE INDICATED LOAD REQUIREMENTS IN ADDITION TO DEAD LOAD OF STRUCTURE AND BUILDING COMPONENTS. COORDINATE WITH MECHANICAL CONTRACTOR FOR LOCATIONS, SIZES, AND WEIGHTS OF ANY MECHANICAL EQUIPMENT TO BE SUPPORTED BY ROOF FRAMING. ENSURE THAT DEFLECTIONS OF METAL BUILDING STRUCTURAL ELEMENTS DO NOT INHIBIT THE PERFORMANCE OF SUPPORTED ROOF AND EQUIPMENT.

2.

METAL BUILDING FABRICATOR SHALL PROVIDE SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN VIRGINIA TO THE A/E OF RECORD FOR APPROVAL BEFORE FABRICATION BEGINS. SUBMITTAL SHALL INCLUDE CLEARLY TABULATED COLUMN BASE REACTIONS.

3.

CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS ON PLAN AND ALL COORDINATION WITH ARCHITECTURAL/CIVIL/PRE-ENGINEERED METAL BUILDING REQUIREMENTS.

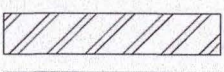
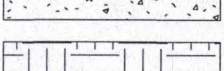
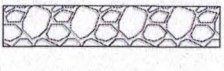

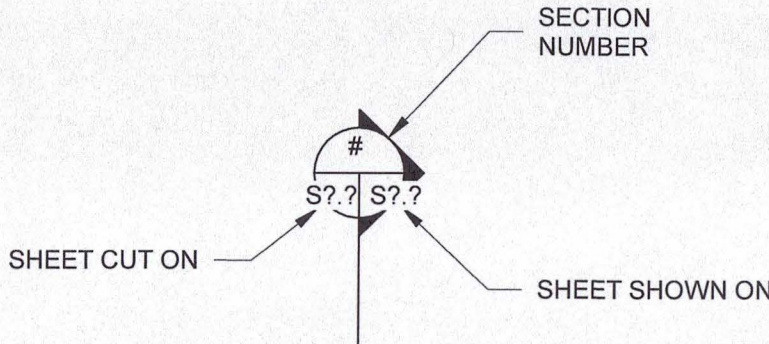
4.

ANCHOR BOLTS SHALL BE IN CONFORMANCE WITH ASTM F1554, GRADE 36 STANDARD.

5.


PRIOR TO CONCRETE PLACEMENT, CONTRACTOR SHALL CONFIRM THAT FOUNDATION REACTIONS FROM METAL BUILDING SUPPLIED DO NOT EXCEED DESIGN VALUES OF FOUNDATIONS SHOWN ON PROJECT DRAWINGS. SOME ADJUSTMENT OF FOUNDATIONS MAY BE NECESSARY IF METAL BUILDING REACTIONS EXCEED DESIGN VALUES.

6.

FOUNDATION DESIGN ASSUMES PINNED BASE COLUMNS, UNLESS NOTED OTHERWISE. CONFIRM THIS CONDITION MATCHES BURN BUILDING COLUMN REACTIONS.
- ABBREVIATIONS:
- | | | |
|-----------|---|--------------------------------|
| ARCH. | - | ARCHITECT, ARCHITECTURAL |
| B, BOT | - | BOTTOM |
| BRG | - | BEARING |
| CANT. | - | CANTILEVER |
| CIP | - | CAST IN PLACE |
| CJ | - | CONSTRUCTION OR CONTROL JOINT |
| CL | - | CENTERLINE |
| CLR | - | CLEAR |
| CMU | - | CONCRETE MASONRY UNIT(S) |
| CNTR'D | - | CENTERED |
| CONC. | - | CONCRETE |
| CONT. | - | CONTINUOUS |
| EA | - | EACH |
| EL. ELEV. | - | ELEVATION |
| EOS | - | EDGE OF SLAB |
| EOP | - | EDGE OF PURLIN |
| EQPT | - | EQUIPMENT |
| E.W. | - | EACH WAY |
| FDN | - | FOUNDATION |
| FOC | - | FACE OF CONCRETE |
| FOM | - | FACE OF MASONRY |
| FTG | - | FOOTING |
| GA | - | GAGE / GAUGE |
| HORIZ | - | HORIZONTAL |
| JBE | - | JOIST BEARING ELEVATION |
| LLH | - | LONG LEG HORIZONTAL |
| LSH | - | LONG SIDE HORIZONTAL |
| LLV | - | LONG LEG VERTICAL |
| LSV | - | LONG SIDE VERTICAL |
| LW | - | LONG WAY |
| MANUF. | - | MANUFACTURER (S) |
| MAX | - | MAXIMUM |
| MIN | - | MINIMUM |
| OC | - | ON CENTER |
| PAF | - | POWDER ACTUATED FASTENER |
| PEJ | - | PREFORMED EXPANSION JOINT |
| PEMB | - | PREF-ENGINEERED METAL BUILDING |
| PL | - | PLATE |
| REINF | - | REINFORCEMENT, REINFORCING |
| SH, SHT | - | SHEET |
| SJ | - | SAWCUT JOINT |
| SOG | - | SLAB-ON-GRADE |
| SW | - | SHORT WAY |
| T | - | TOP |
| TOF | - | TOP OF FOOTING |
| TOS | - | TOP OF SLAB |
| T/S | - | TOP OF STEEL |
| TYP | - | TYPICAL |
| U.N.O. | - | UNLESS NOTED OTHERWISE |
| VERT. | - | VERTICAL |
| W.W.F. | - | WELDED WIRE FABRIC |
- LEGEND:
- | | | |
|-----------------------------|---|---|
| WELDED WIRE FABRIC - | - | - x - x - x - |
| STEEL | - |  |
| CONCRETE | - |  |
| EARTH | - |  |
| POROUS FILL / GRANULAR FILL | - |  |
- 

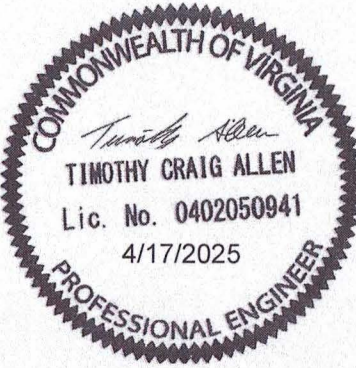
The diagram illustrates a corner of a sheet where two sheets meet. One sheet is labeled 'S7.2' and the other 'S7.3'. Arrows point to the corner with the labels 'SHEET CUT ON' and 'SHEET SHOWN ON'. A section line with a circle and cross-hairs is shown, with an arrow pointing to it labeled 'SECTION NUMBER'.
- | DRAWING LIST | |
|--------------|-----------------------------------|
| SHEET NUMBER | SHEET NAME |
| S0.1 | GENERAL NOTES |
| S2.0 | FOUNDATION PLAN & TYPICAL DETAILS |
- 1030 Wilmer Avenue, Suite 100
Richmond, VA 23227
804-264-2228 Fax: 804-264-8773
www.daa.com

Blacksburg, VA
Charlottesville, VA
Newport News, VA

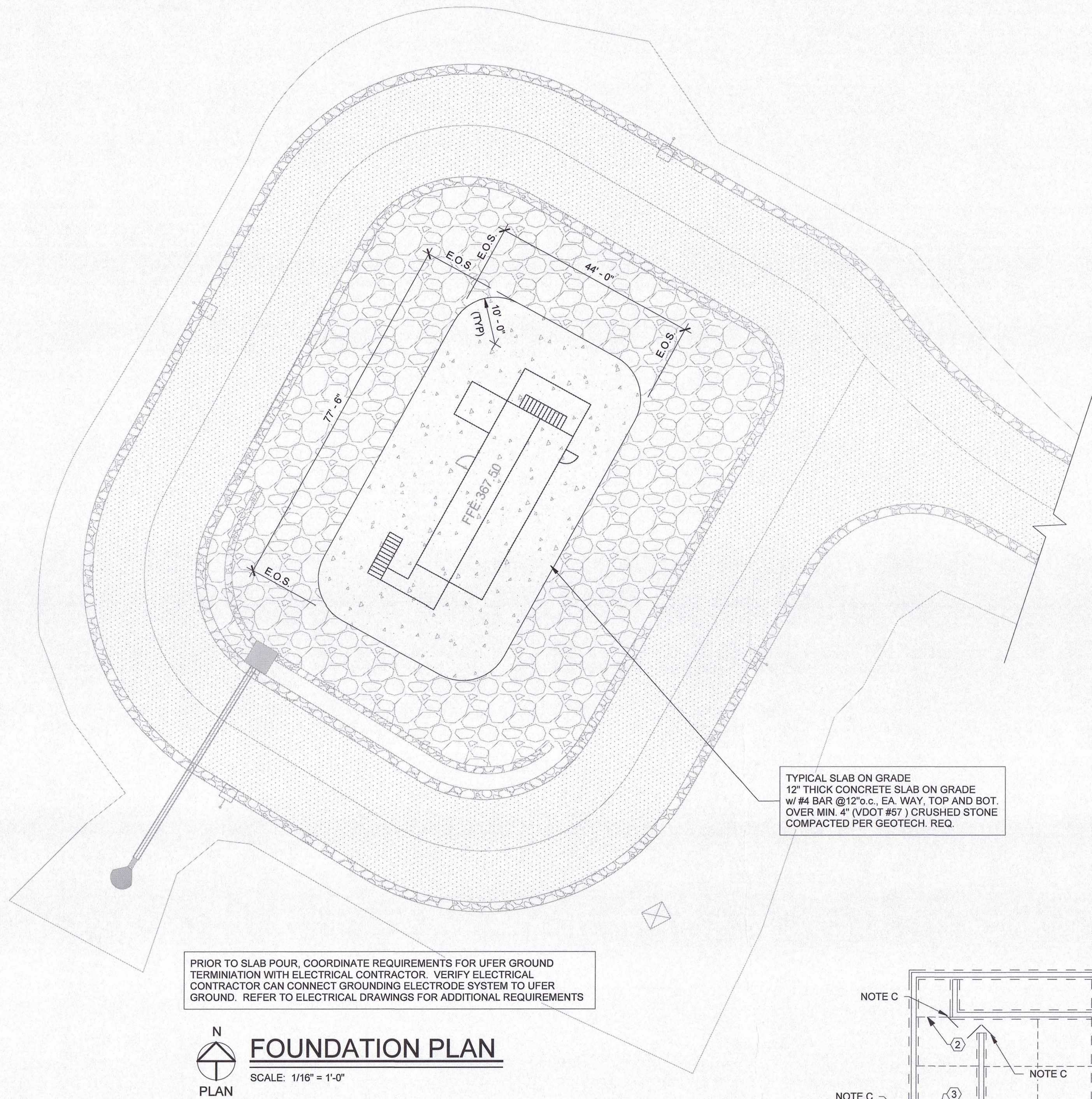
Raleigh, NC
Northern Virginia
Virginia Beach, VA
- 

TRC ENGINEERS, INC.
- GENERAL NOTES

FORK UNION FIRE TRAINING BUILDING SITE

FLUVANNA COUNTY, VIRGINIA
- 
- | | |
|-----------------|----------------|
| DESIGNED BY: | ABD |
| DRAWN BY: | ABD |
| CHECKED BY: | TCA |
| SCALE: | AS NOTED |
| DATE: | APRIL 14, 2025 |
| PROJECT NUMBER: | 626503 |
- S0.1

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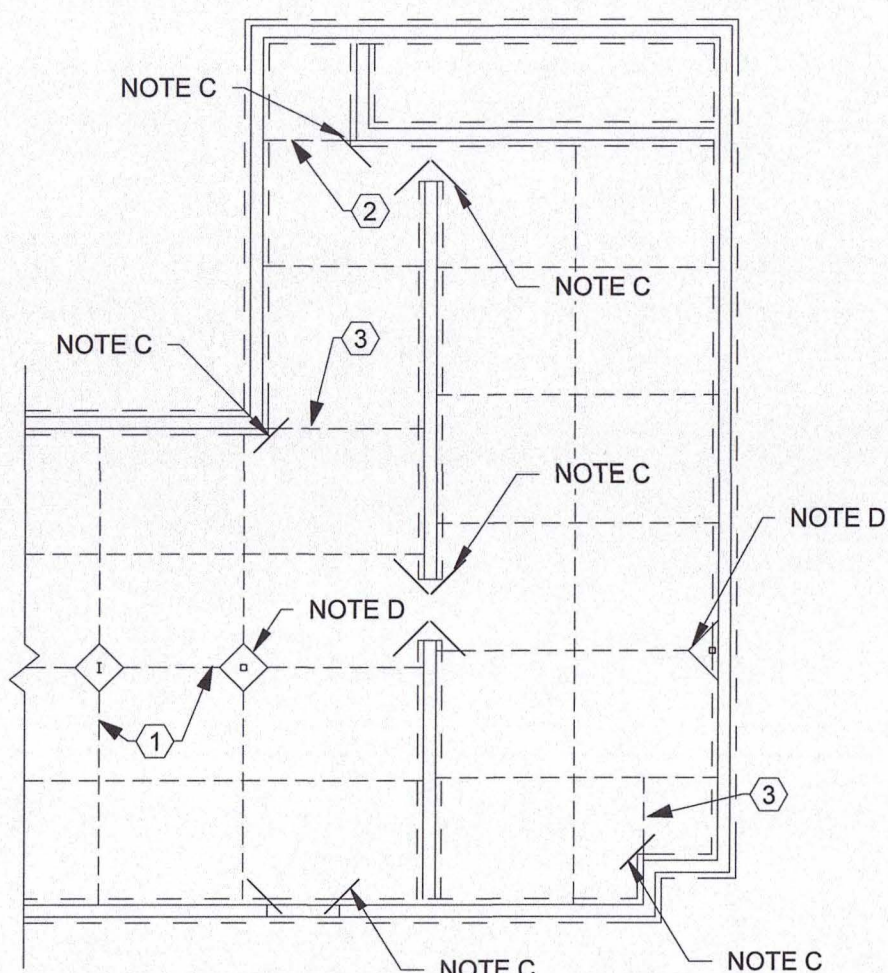
PRIOR TO SLAB POUR, COORDINATE REQUIREMENTS FOR UFER GROUND TERMINATION WITH ELECTRICAL CONTRACTOR. VERIFY ELECTRICAL CONTRACTOR CAN CONNECT GROUNDING ELECTRODE SYSTEM TO UFER GROUND. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS



FOUNDATION PLAN

SCALE: 1/16" = 1'-0"

TYPICAL SLAB ON GRADE
12" THICK CONCRETE SLAB ON GRADE
W/ #4 BAR @ 12" o.c. EA. WAY, TOP AND BOT.
OVER MIN. 4" (DOT #57) CRUSHED STONE
COMPACTED PER GEOTECH. REQ.



JOINT LOCATION GUIDELINES & NOTES:

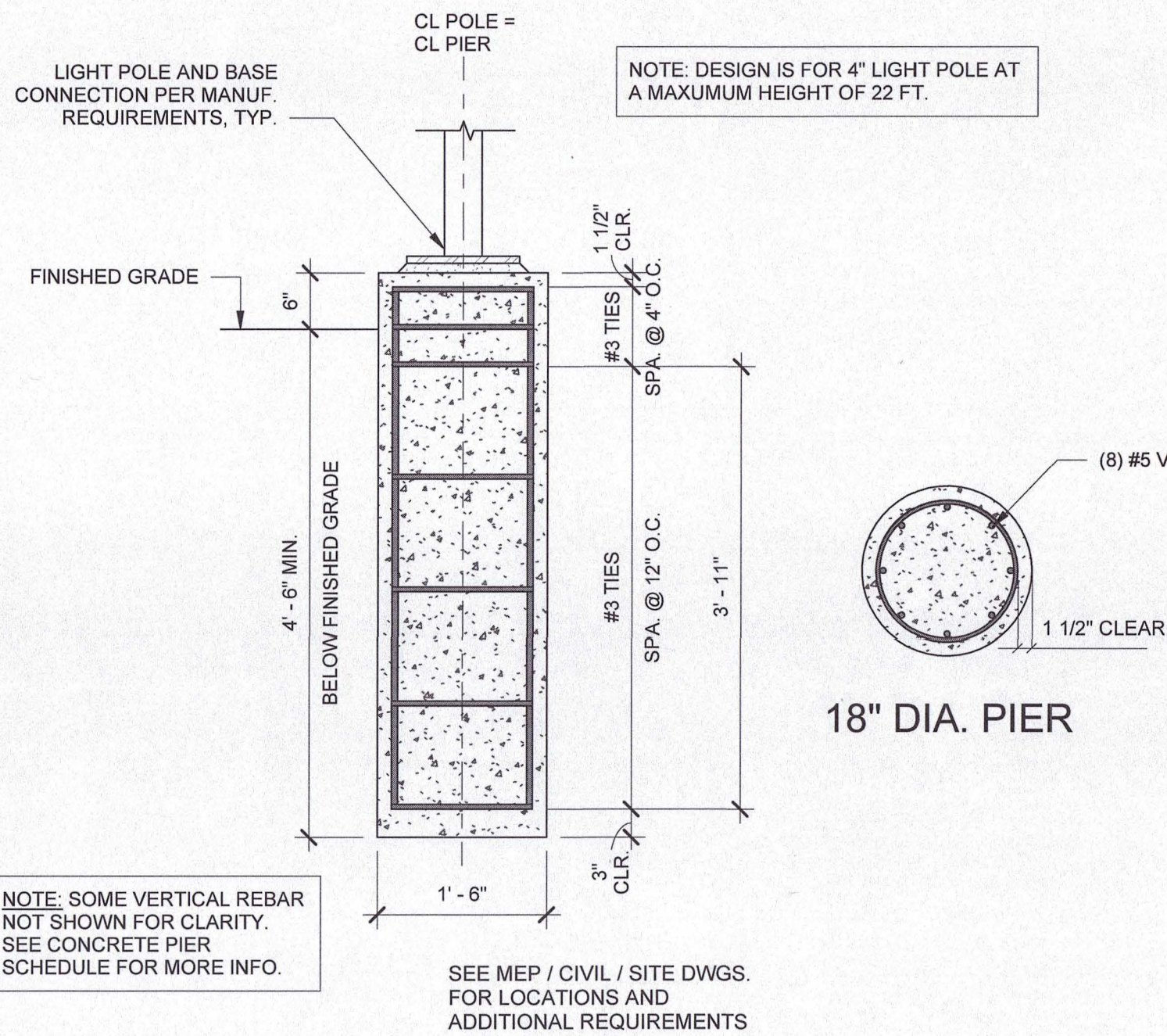
- SEE S0.1 FOR MAX SPACING DIMENSIONS AND CONCRETE NOTES.
- SEE SAWCUT JOINT AND CONTROL JOINT DETAILS ON S3.0.
- PROVIDE (1) #4 BAR AT RE-ENTRANT CORNERS OF SLAB PER TYPICAL DETAIL THIS SHEET.
- PROVIDE DIAMOND ISOLATION JOINT, PER DETAIL ON S3.0, AT COLUMNS.

LOCATE CONTROL JOINTS AT THE FOLLOWING AREAS:

- AT COLUMN CENTERLINES.
- AT CORNERS OF MASONRY WALLS WITH FOOTINGS.
- AT RE-ENTRANT CORNERS.

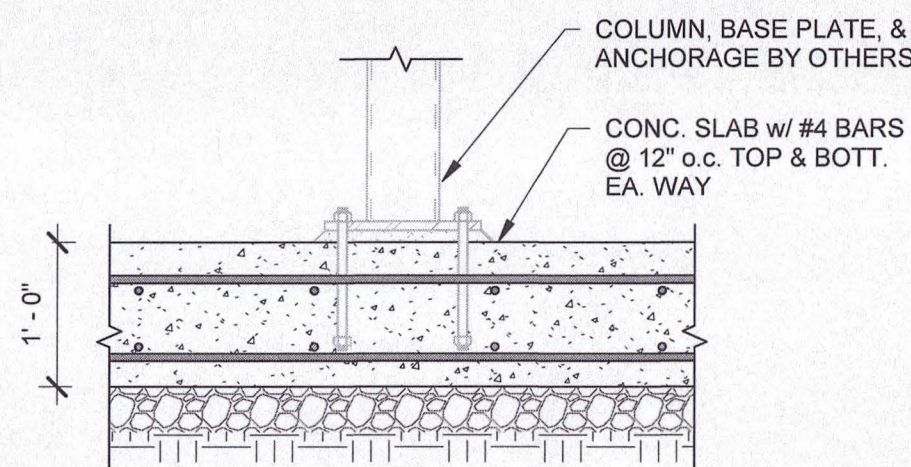
EXAMPLE SLAB ON GRADE JOINT LAYOUT

SCALE: 1/16" = 1'-0"



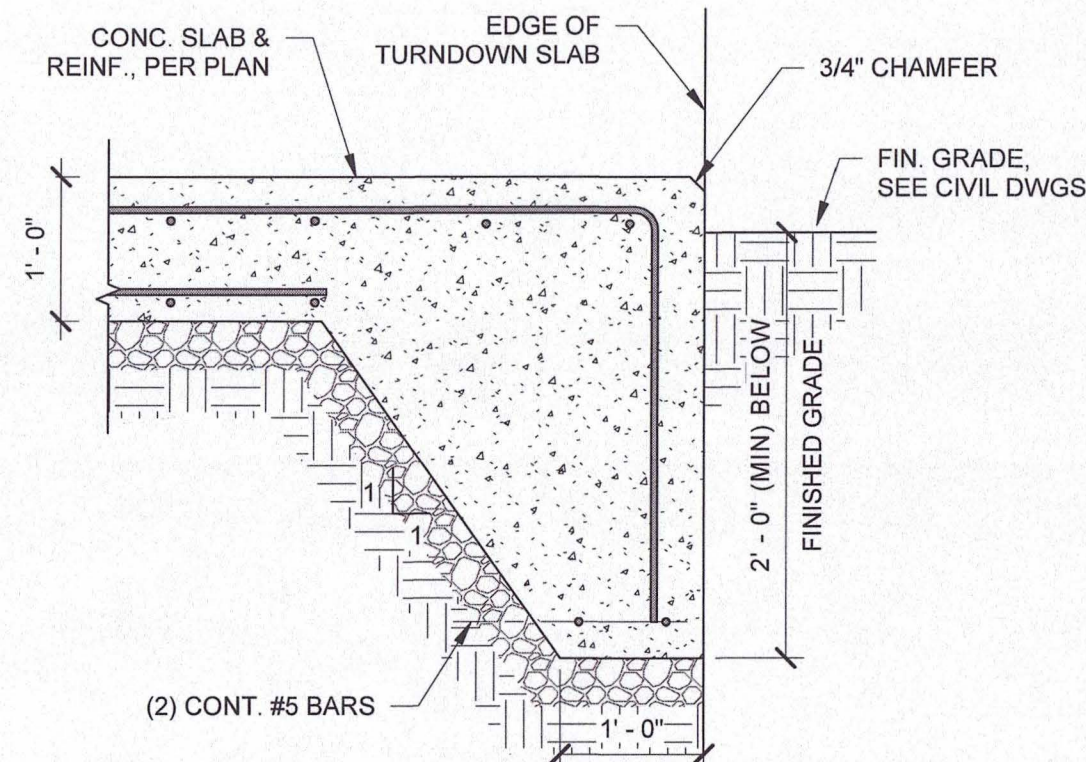
CONCRETE PIER DETAIL

SCALE: 3/4" = 1'-0"



SLAB AT POST DETAIL

SCALE: 3/4" = 1'-0"



TYP. TURN-DOWN SLAB

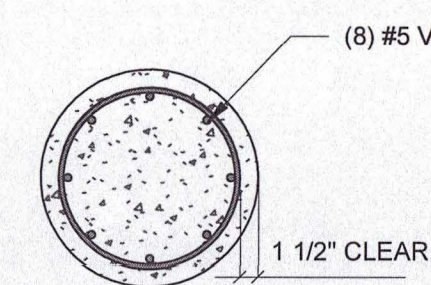
SCALE: 3/4" = 1'-0"

FOUNDATION PLAN GENERAL NOTES:

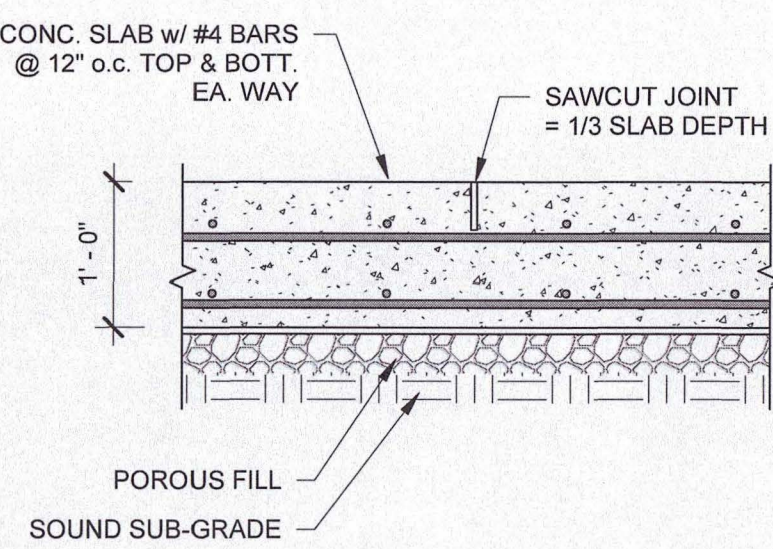
- SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
- SEE THIS SHEET TYPICAL DETAILS & SECTIONS.
- "E.O.S." DENOTES EDGE OF SLAB. COORDINATE LOCATION & EXTENTS W/ CIVIL DRAWINGS.
- CONTRACTOR TO COORDINATE ALL DIMENSIONS, ELEVATIONS, SLOPES, EXISTING CONDITIONS, UTILITIES, AND OPENINGS WITH ALL OTHER TRADES, INCLUDING CIVIL, MEP, & PRE-ENGINEERED BURN BUILDING DRAWINGS PRIOR TO CONSTRUCTION, TYPICAL.
- REFER TO GEOTECHNICAL REPORT 18060 PREPARED BY UNDERHILL ENGINEERING DATED OCTOBER 25, 2018 FOR ALL SUBGRADE MATERIAL REQUIREMENTS.
- UNDER SLAB PLUMBING NOT SHOWN, LOWER FOOTINGS AS NEEDED TO ALLOW PLUMBING TO PASS OVER. COORDINATE UNDER SLAB UTILITIES W/ FOOTING LOCATIONS AND DEPTH.
- TYPICAL PERIMETER FOUNDATION CONSTRUCTION IS TURN-DOWN SLAB 1'-0" WIDE BY 2'-0" DEEP & REINFORCED W/ (2) #5 BAR CONTINUOUS, U.N.O.
- TYPICAL LAP SPLICE FOR REBAR: 48 BAR DIAMETERS.
- FOR SLAB JOINT SPECIFICS SEE TYPICAL JOINT DETAILS ON THIS SHEET & JOINT SPECIFICATIONS ON SHEET S0.1.
- ANCHOR BOLT LOCATION TO BE DETERMINED BY PRE-ENGINEERED BUILDING MANUFACTURER. G.C. COORDINATE ANCHOR BOLT LOCATION SUBMITTAL WITH APPROVED PRE-ENGINEERED BURN BUILDING MANUFACTURER SHOP DRAWINGS.

DISCLAIMER:
CONTRACTOR IS RESPONSIBLE FOR
DIMENSIONS ON PLAN AND ALL COORDINATION
WITH ARCHITECTURAL/CIVIL/PRE-ENGINEERED
BURN BUILDING REQUIREMENTS.

NOTE:
BURN BUILDING FABRICATOR SHALL PROVIDE
SHOP DRAWINGS AND CALCULATIONS SIGNED
AND SEALED BY A PROFESSIONAL ENG.
LICENSED IN VIRGINIA TO THE A/E OF RECORD
FOR APPROVAL BEFORE FABRICATION BEGINS.

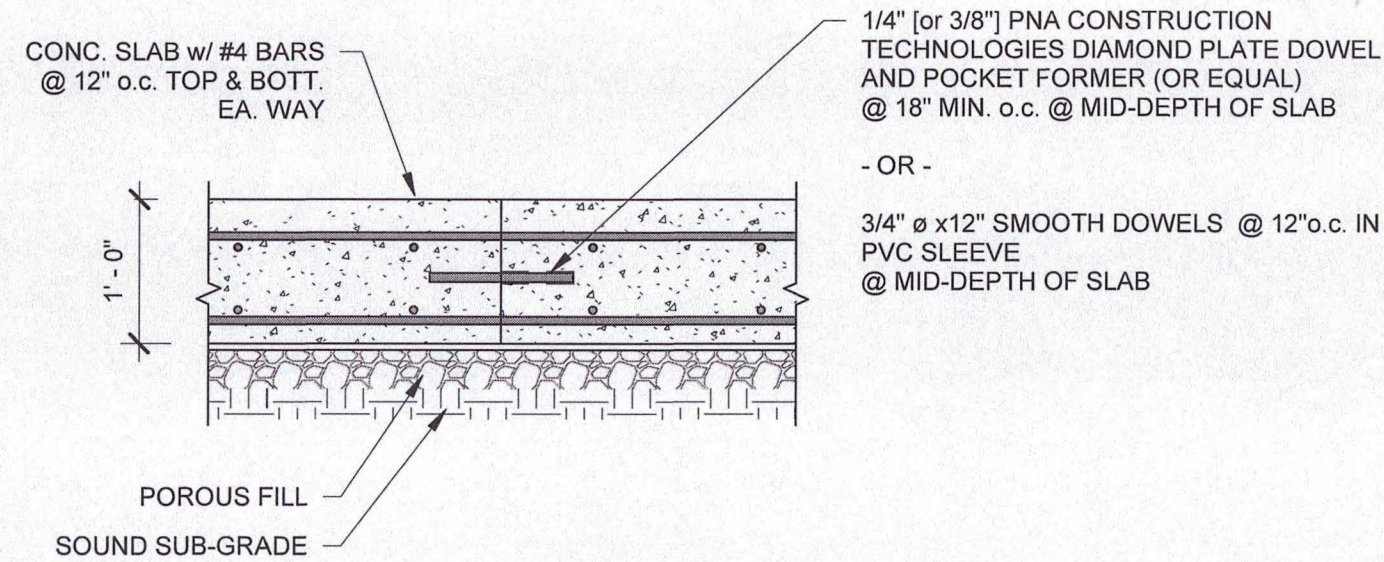


18" DIA. PIER



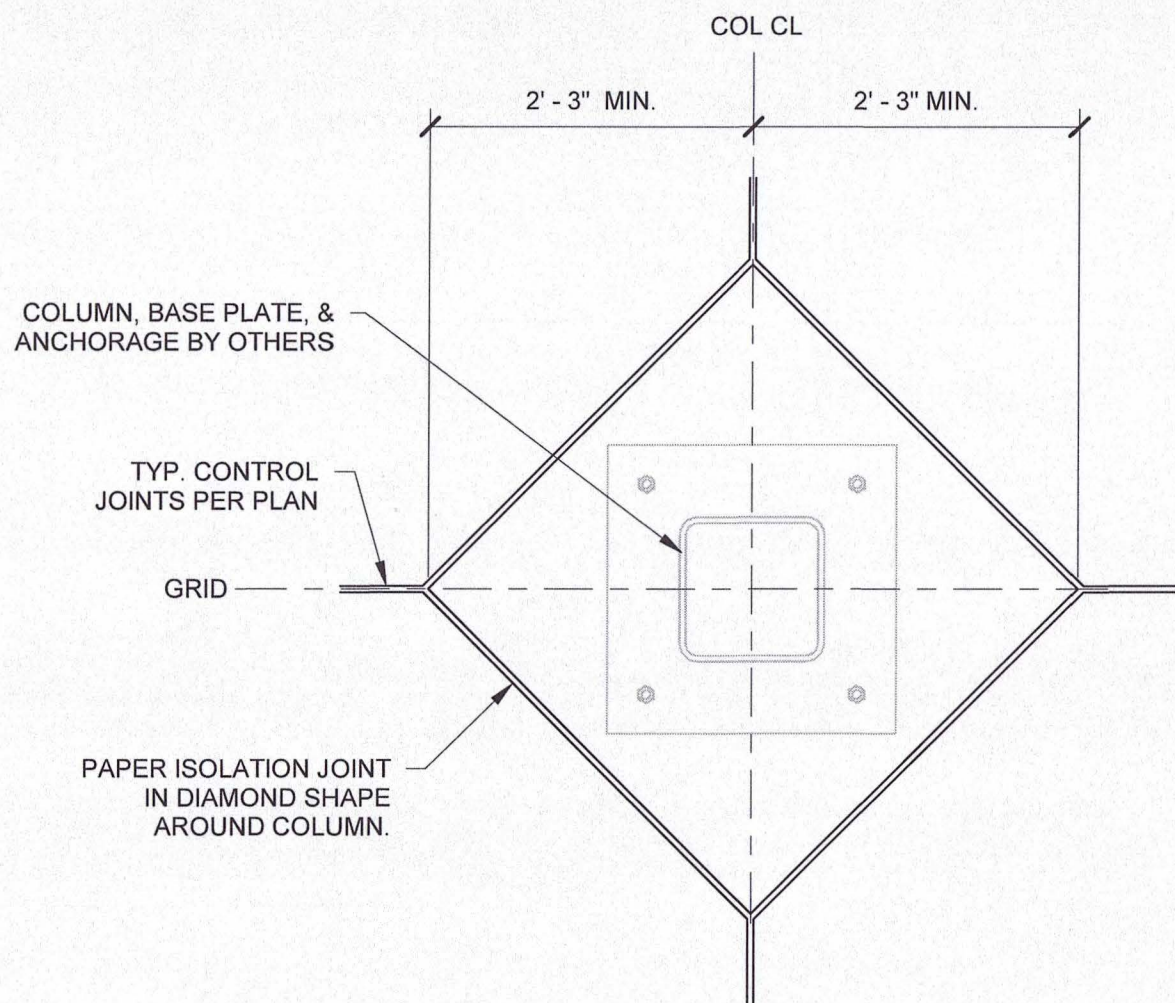
TYP. SAWCUT JOINT DETAIL

SCALE: 3/4" = 1'-0"



TYP. CONSTRUCTION JOINT DETAIL

SCALE: 3/4" = 1'-0"



NOTE: GC TO COORDINATE COLUMN LOCATION W/
PRE-ENGINEERED BURN BUILDING DRAWINGS.

TYP. DIAMOND ISOLATION JOINT

SCALE: 3/4" = 1'-0"

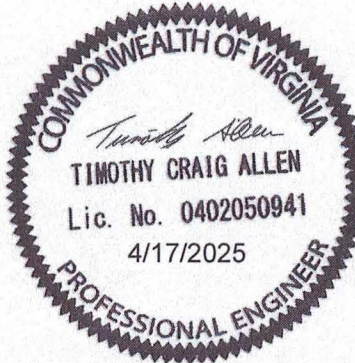
1030 Wilmer Avenue, Suite 100
Richmond, VA 23227
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www.daa.com

Blacksburg, VA • Raleigh, NC
Charlottesville, VA • Northern Virginia
Newport News, VA • Virginia Beach, VA



FOUNDATION PLAN & TYPICAL DETAILS
FORK UNION FIRE TRAINING
BUILDING SITE
FLUVANNA COUNTY, VIRGINIA

NO REVISION DATE



DESIGNED BY: ABD

DRAWN BY: ABD

CHECKED BY: TCA

SCALE: AS NOTED

DATE: APRIL 14, 2025

PROJECT NUMBER: 626503

S2.0

ONE-LINE SYMBOLS LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION
PANELBOARD		
<p>DENOTES THAT PANEL SHALL BE PROVIDED WITH SURGE-PROTECTIVE DEVICE</p>		<p>PANEL NAME</p> <p>PANEL VOLTAGE</p> <p>PANEL AMP RATING</p> <p>PANEL AIC (AMPERE INTERRUPTING CAPACITY) RATING</p>
<p>NOTE: NOT ALL RATINGS FOR PANELBOARDS ARE SHOWN ON ONE-LINE DIAGRAM. WHERE RATINGS ARE NOT SHOWN ON ONE-LINE, REFER TO PANEL SCHEDULES.</p>		
ISOLATION PANELBOARD		
		<p>PANEL NAME</p> <p>PANEL VOLTAGE</p> <p>PANEL KVA RATING</p>
<p>NOTE: NOT ALL RATINGS FOR PANELBOARDS ARE SHOWN ON ONE-LINE DIAGRAM. WHERE RATINGS ARE NOT SHOWN ON ONE-LINE, REFER TO PANEL SCHEDULES.</p>		
TRANSFORMER		
<p>TRANSFORMER NAME</p> <p>CAPACITY RATING</p> <p>T-1A 480 V/ 30 kVA</p> <p>GROUNDING ELECTRODE SIZE (COPPER)</p> <p>#6</p>		<p>PRIMARY VOLTAGE AND CONNECTION TYPE</p> <p>SECONDARY VOLTAGE AND CONNECTION TYPE</p>
SWITCHBOARD SYMBOLS		
CIRCUIT BREAKER		DRAW-OUT CIRCUIT BREAKER
FUSE SET		LUGS
SWITCH		SPACE-ONLY
CIRCUIT BREAKER IN METER CENTER		
		<p>SYMBOL ATTACHED TO CIRCUIT BREAKER DENOTES METERING</p> <p>AMP RATING</p> <p>NUMBER OF SWITCHED POLES</p>
SWITCHBOARD DESIGNATIONS		
<p>SWITCHBOARD AIC (AMPERE INTERRUPTING CAPACITY) RATING</p> <p>MSB</p> <p>480 V/3Φ</p> <p>4000 A</p> <p>65 kAIC</p>		<p>SWITCHBOARD NAME</p> <p>SWITCHBOARD VOLTAGE</p> <p>SWITCHBOARD BUS RATING</p>
<p>VERTICAL DOTTED LINE DENOTES END OF SWITCHBOARD SECTION</p>		

LIGHTING SYMBOLS LEGEND

SYMBOL	DESCRIPTION	HEIGHT (UNO)
	ZONE CONTROL STATION X - ZONE TYPE - REFER TO SEQUENCE OF OPERATIONS	46" AFF
	SINGLE-POLE, 20A, 277V SWITCH	46" AFF

LIGHTING TAG DESCRIPTIONS

	A1	FIXTURE TYPE - REFER TO LIGHT FIXTURE SCHEDULE
	1A-1	CIRCUIT DESIGNATION
	aa	ZONE DESIGNATION

NOTE - FIXTURES SHOWN WITH "-E" SUFFIX AFTER FIXTURE TYPE TAG SHALL BE PROVIDED WITH BATTERY BACKUP COMPLIANT WITH UL924 TO PROVIDE 90 MINUTES OF CONTINUOUS LIGHT OUTPUT. THIS SHALL INCLUDE FIXTURES PROVIDED WITH POWER FROM ANY BUILDING BACKUP POWER SYSTEM. WHERE AVAILABLE, BATTERY SHALL BE INTEGRAL TO FIXTURE. WHERE UNAVAILABLE, BATTERY DEDICATED TO FIXTURE SHALL BE INSTALLED IMMEDIATELY ADJACENT TO FIXTURE.

	aa	ZONE DESIGNATION - FIXTURES DESIGNATED BY SAME ZONE DESIGNATION SHALL BE CONTROLLED UNIFORMLY FROM ZONE CONTROL STATION
		WHERE ZONE IS TAGGED 'NL' IN CAPITAL LETTERS, PROVIDE UNSWITCHED HOT TO FIXTURE.

NOTES:

A. ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

B. SYMBOLS SHOWN ON FLOOR PLANS ARE GENERALLY CONSISTENT WITH DIMENSIONS OF SCHEDULED FIXTURES. REFER TO LIGHT FIXTURE SCHEDULE FOR SPECIFIC REQUIREMENTS OF FIXTURES. DRAWINGS SHALL NOT BE SCALED TO DETERMINE FIXTURE LOCATIONS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF FIXTURES.

CIRCUIT BREAKER ABBREVIATIONS

ABBREVIATIONS LISTED ON PANEL SCHEDULES FOR DEVICE TRIP TYPE ARE LISTED BELOW:

TM - THERMAL-MAGNETIC

TM-ADJ - THERMAL-MAGNETIC WITH ADJUSTABLE INSTANTANEOUS TRIP SETTING

ET-LI - ELECTRONIC TRIP WITH LONG-TIME & INSTANTANEOUS TRIP SETTINGS

ET-LSI - ELECTRONIC TRIP WITH LONG-TIME, SHORT-TIME, & INSTANTANEOUS TRIP SETTINGS

ET-LSIG - ELECTRONIC TRIP WITH LONG-TIME, SHORT-TIME, INSTANTANEOUS, & GROUND-FAULT TRIP SETTINGS

ET-LSIG-A - ELECTRONIC TRIP WITH LONG-TIME, SHORT-TIME, & INSTANTANEOUS TRIP SETTINGS AND GROUND-FAULT ALARM

DEMOLITION NOTES

- A. PROVIDE OWNER WITH FIRST RIGHT OF REFUSAL TO ALL ITEMS TO BE DEMOLISHED. ITEMS SHOWN TO BE DEMOLISHED SHALL NOT BE CONSIDERED WASTE UNTIL OWNER APPROVES DISPOSAL OF ITEMS.
- B. MAINTAIN OWNERSHIP OF ALL DEMOLITION WASTE AND PROPERLY DISPOSE PER LOCAL AND ENVIRONMENTAL CODES.
- C. NOTIFY ARCHITECT, OWNER, AND CONSTRUCTION MANAGER PRIOR TO INTERRUPTING EXISTING ELECTRICAL SERVICE. DO NOT INTERRUPT ELECTRICAL OR FIRE ALARM SERVICE WITHOUT OWNER'S AND CONSTRUCTION MANAGER'S WRITTEN PERMISSION.
- D. PROTECT ALL EXISTING ITEMS TO BE RELOCATED AND EXISTING ITEMS TO REMAIN. PROVIDE ALL STORAGE REQUIRED TO PROTECT EXISTING ITEMS TO BE RELOCATED. REPLACE ALL EXISTING-TO-REMAIN ITEMS THAT ARE DAMAGED DURING CONSTRUCTION WITH NEW, EQUAL ITEMS.
- E. WHERE ALL ITEMS SERVED BY A BRANCH CIRCUIT OR FEEDER ARE TO BE DEMOLISHED, REMOVE ALL WIRE, RACEWAY, BOXES, HANGERS, AND SUPPORTS BACK TO POINT OF ORIGINATION. DO NOT ABANDON ANY ITEMS IN PLACE.
- F. WHERE ALL ITEMS SERVED BY BRANCH OR FEEDER CIRCUIT BREAKERS ARE DEMOLISHED, TURN CIRCUIT BREAKER OFF AND LABEL AS "SPARE".
- G. WHERE WALLS ARE SHOWN ON ARCHITECTURAL PLANS TO BE DEMOLISHED, REMOVE ALL DEVICES, WIRE, RACEWAY, BOXES, HANGERS, AND SUPPORTS FROM WALL, INCLUDING WHERE DEVICES ARE NOT EXPLICITLY SHOWN ON ELECTRICAL DRAWINGS TO BE DEMOLISHED.
- H. THESE DESIGN DRAWINGS ARE BASED ON LIMITED FIELD SURVEYS AND LIMITED AS-BUILT OR DESIGN DRAWINGS THAT WERE AVAILABLE TO THE ENGINEER. ELECTRICAL DEMOLITION DRAWINGS ARE DIAGRAMATIC IN NATURE AND DO NOT SHOW ALL DEVICES TO BE DEMOLISHED. WHERE DEVICES ARE FOUND IN FIELD THAT ARE NOT SHOWN ON ELECTRICAL DRAWINGS, REQUEST CLARIFICATION FROM ENGINEER WHETHER DEVICE IS TO BE DEMOLISHED, EXISTING TO REMAIN, OR EXISTING TO BE RELOCATED.

SCOPE NOTES

ALL ELECTRICAL SCOPE SHALL BE HELD BY A SINGLE ELECTRICAL CONTRACTOR. PROVIDE ALL SCOPE SHOWN WITHIN THIS DRAWING SET. DO NOT EXCLUDE ANY SCOPE. DO NOT ASSUME ANY SCOPE SHOWN ON THIS PLAN SET WILL BE PROVIDED BY OTHERS UNLESS EXPLICITLY NOTED OTHERWISE.

POWER SYMBOLS LEGEND

SYMBOL	DESCRIPTION	HEIGHT (UNO)
	DUPLEX RECEPTACLE - NEMA TYPE 5-20R	18" AFF
	DUPLEX RECEPTACLE ON BACKUP POWER SYSTEM PROVIDE RED DEVICE AND COVERPLATE	18" AFF
	DUPLEX RECEPTACLE WITH GFCI PROTECTION	18" AFF
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER LEVEL REFER TO NOTE B BELOW	4" AFC
	DUPLEX RECEPTACLE WITH PLUGLOAD CONTROL REFER TO NOTE D BELOW	18" AFF
	QUADRUPLEX RECEPTACLE (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE)	18" AFF
	SIMPLEX RECEPTACLE - NEMA TYPE 5-20R	18" AFF
	SPECIAL RECEPTACLE - NEMA TYPE AS INDICATED ON FLOOR PLANS	18" AFF
	FLOOR-MOUNTED RECEPTACLE	FLOOR
	CEILING-MOUNTED RECEPTACLE	CEILING
	DUPLEX RECEPTACLE ADJACENT TO DATA OUTLET REFER TO NOTE E BELOW	18" AFF
	PRE-MANUFACTURED MULTI-OUTLET ASSEMBLY	AS INDICATED
	EMERGENCY POWER-OFF SWITCH	46" AFF
	SURFACE-MOUNTED PANELBOARD	PER MFGR
	RECESS-MOUNTED PANELBOARD EXTENDED LINES SHOW FRONT-FACING SIDE OF PANEL	PER MFGR
	SAFETY DISCONNECT SWITCH	48" AFF
	ENCLOSED CIRCUIT BREAKER	48" AFF
	VARIABLE FREQUENCY DRIVE	PER MFGR
	ENCLOSED MOTOR STARTER - NEMA # AS INDICATED ON FLOOR PLANS	48" AFF
	GROUND BUS BAR	84" AFF

RECEPTACLE TAG DESCRIPTIONS

C - CLOCK-STYLE RECESSED RECEPTACLE

H - RECEPTACLE MOUNTED HORIZONTALLY WITH NEUTRAL PIN FACING UP

TP - TAMPER-PROOF

TV - TV RECEPTACLE - COORDINATE MOUNTING HEIGHT WITH BRACKET AND MOUNT ADJACENT TO LOW-VOLTAGE PLATE

USB - RECEPTACLE WITH INTEGRAL 18W USB PORTS

WP - WEATHER-PROOF

+XX" - SPECIAL MOUNTING HEIGHT - MOUNT DEVICE AT XX" TO CENTER OF DEVICE

- NOTES:
- A. ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE OR TO CENTER OF OPERATING HANDLE UNLESS NOTED OTHERWISE.
- B. MOUNTING HEIGHT ABOVE FINISHED COUNTER (AFC) SHALL BE MEASURED FROM TOP OF BACKSPLASH (IF PRESENT) OR FROM TOP OF TABLE/COUNTER SURFACE (IF NO BACKSPLASH PRESENT). REFER TO ARCHITECTURAL ELEVATIONS FOR ALL COUNTER HEIGHTS.
- C. ALL LINEWORK WITHIN SYMBOLS IS ADDITIVE. THIS LEGEND DOES NOT ATTEMPT TO SHOW ALL POSSIBLE COMBINATIONS OF SYMBOL HATCHES OR LINEWORK. WHERE MULTIPLE HATCHES OR LINES ARE SHOWN IN A SINGLE SYMBOL ON FLOOR PLANS, RECEPTACLE SHALL BE PROVIDED WITH ALL FEATURES (E.G. WHERE A RECEPTACLE IS SHOWN WITH BOTH OF (A) TWO HORIZONTAL LINES INDICATED QUADRUPLEX RECEPTACLE AND A "GFCI PROTECTION" HATCH, RECEPTACLE SHALL BE A QUADRUPLEX WITH GFCI PROTECTION). IN THE EVENT OF ANY AMBIGUITY IN SYMBOL MEANING, REQUEST CLARIFICATION FROM ENGINEER.
- D. RECEPTACLES SHOWN WITH PLUGLOAD CONTROL SYMBOL SHALL BE PROVIDED WITH TOP HALF OF RECEPTACLE ON OCCUPANCY SENSOR CONTROL. COORDINATE REQUIREMENTS FOR OCCUPANCY SENSOR INTEGRATION WITH LIGHTING CONTROLS VENDOR.
- E. WHERE RECEPTACLE IS SHOWN ADJACENT TO DATA WITH CONNECTING LINES, INSTALL DATA BACKBOX AND RECEPTACLE AT SAME ELEVATION. PROVIDE 1-1/4" OF SEPARATION BETWEEN RECEPTACLE AND DATA FACEPLATES.

GENERAL SYMBOLS LEGEND

LINEWEIGHT DESCRIPTIONS

— LINEWEIGHT DENOTES NEW ITEMS

— LINEWEIGHT DENOTES ITEMS EXISTING TO REMAIN

----- LINEWEIGHT DENOTES ITEMS TO BE DEMOLISHED

EQUIPMENT TAGS LEGEND

AAA - NEW MECHANICAL EQUIPMENT DESIGNATION - PROVIDE POWER CONNECTION AS SHOWN ON EQUIPMENT CONNECTION SCHEDULE. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR.

AAA-XX - EXISTING MECHANICAL EQUIPMENT DESIGNATION - PROVIDE NEW POWER CONNECTION AS SHOWN ON EQUIPMENT CONNECTION SCHEDULE. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR.

ABCD-99 - KITCHEN EQUIPMENT DESIGNATION - PROVIDE POWER CONNECTION AS SHOWN ON EQUIPMENT CONNECTION SCHEDULE. COORDINATE REQUIREMENTS WITH KITCHEN EQUIPMENT VENDOR

OTHER TAGS LEGEND

1 - REVISION CLOUD TAG - DENOTES REVISION IN WHICH CHANGE OCCURRED

? - KEYNOTE TAG - DENOTES REFERENCE TO KEYNOTE LEGEND ON INDIVIDUAL SHEET

1 A101 - VIEW REFERENCE - DENOTES REFERENCE TO VIEW 1 ON SHEET A101

1 Ref - ELEVATION REFERENCE - DENOTES REFERENCE TO ELEVATION VIEW 1 ON SHEET A101

1 SIM - SECTION REFERENCE - DENOTES REFERENCE TO VIEW 1 ON SHEET A101

GENERAL NOTES

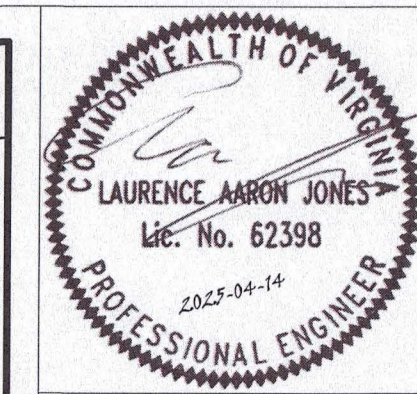
- A. OBTAIN ALL PERMITS, PAY ALL FEES, AND COMPLY WITH ALL GOVERNING REGULATIONS.
- B. COMPLY WITH ALL LOCAL CODES APPLICABLE TO PROJECT LOCATION. WHERE DRAWINGS CONFLICT WITH APPLICABLE CODES, PROMPTLY INFORM ENGINEER IN WRITING BEFORE PROCEEDING WITH WORK.
- C. CONTRACTOR IS RESPONSIBLE FOR TURNING OVER A COMPLETE, COORDINATED, AND FULLY FUNCTIONAL SYSTEM. THIS WILL INCLUDE FURNISHING ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY. ANY PORTION OF THIS MAY BE CONSIDERED "MEANS AND METHODS", AND SHALL BE INCLUDED IN INITIAL BIDS.
- D. ALLOW PROPER ACCESS TO ALL EQUIPMENT, INCLUDING CODE-REQUIRED ACCESS AND MANUFACTURER-RECOMMENDED ACCESS. COORDINATE LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH ALL OTHER SYSTEMS AND TRADES TO ALLOW FOR PROPER ACCESS.
- E. PROVIDE ALL ACCESS DOORS REQUIRED FOR ANY ACCESSIBLE EQUIPMENT LOCATED ABOVE CEILINGS.
- F. IF ANY EQUIPMENT OR MATERIALS ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE THE EQUIPMENT OR MATERIALS AT NO CHARGE TO OWNER, INCLUDING SCHEDULE AND GENERAL CONDITIONS CHARGES.
- G. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY COST OR SCHEDULE CHANGES DUE TO DEVIATION FROM SCHEDULED, BASIS-OF-DESIGN EQUIPMENT.
- H. THESE DESIGN DRAWINGS ARE BASED ON LIMITED FIELD SURVEYS AND LIMITED AS-BUILT OR DESIGN DRAWINGS THAT WERE AVAILABLE TO THE ENGINEER. FOR THIS REASON, THESE DRAWINGS INTEND TO SHOW DIAGRAMMATIC DESIGN INTENT, AND MAY CONTAIN INFORMATION THAT DEVIATES FROM ACTUAL EXISTING CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ANY MAJOR DISCREPANCIES WITH THE ENGINEER. THE CONTRACTOR IS REQUIRED TO DEVELOP SHOP DRAWINGS BASED ON ACTUAL EXISTING CONDITIONS, AND IS NOT TO USE THE DESIGN DRAWINGS FOR THIS PURPOSE.

PROJECT DESIGN CRITERIA

BUILDING OCCUPANCY DESIGN CRITERIA			
CONSTRUCTION TYPE	-	TBD	
USE GROUP	-	U	
HIGH-RISE CONSTRUCTION	-	NO	
CODES LISTED BELOW SHOW CODES APPLICABLE TO BASIS-OF-DESIGN. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING LOCAL AMENDMENTS.			
APPLICABLE CODES			
BUILDING	-	2021 IBC	
ELECTRICAL	-	2020 NFPA 70	
ENERGY	-	2021 IECC	
PROJECT LATITUDE			
DEG. N. LAT.	-	37.99	
PROJECT ELEVATION			
FT. ASL	-	1,200	
SUMMER DESIGN CONDITIONS			
0.4% DB/WB °F	-	89.1/75.5	
WINTER DESIGN CONDITIONS			
99.6% DB °F	-	13.3	

ELECTRICAL ABBREVIATIONS

AFC	-	ABOVE FINISHED COUNTER
AFF	-	ABOVE FINISHED FLOOR
ATS	-	AUTOMATIC TRANSFER SWITCH
BATT	-	BATTERY
CKT	-	CIRCUIT
EPO	-	EMERGENCY POWER OFF
ET	-	ELECTRONIC TRIP
EX	-	EXISTING TO REMAIN
EXR	-	EXISTING TO BE RELOCATED
EXN	-	EXISTING NEW LOCATION
GAP	-	GENERATOR ANNUNCIATOR PANEL
GFI/GFCI	-	GROUND-FAULT CIRCUIT INTERRUPTER
HTR	-	HEATER
LED	-	LIGHT-EMITTING DIODE
LL	-	LANDLORD
MFGR	-	MANUFACTURER
NP	-	NOT PERMITTED
OC	-	ON-CENTER
OCC	-	OCCUPANCY
OO	-	ON/OFF
ORLO	-	ON/RAISE/LOWER/OFF
PNL	-	PANEL
SPD	-	SURGE PROTECTIVE DEVICE
SUS	-	SUSPENDED
TM	-	THERMAL-MAGNETIC
TM/ADJ	-	THERMAL-MAGNETIC WITH ADJUSTABLE INSTANTANEOUS TRIP
UNO	-	UNLESS NOTED OTHERWISE
UPS	-	UNINTERRUPTIBLE POWER SUPPLY
USB	-	UNIVERSAL SERIAL BUS
VIF	-	VERIFY IN FIELD
WTR	-	WATER
WP	-	WEATHERPROOF



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FORK UNION FIRE TRAINING
BUILDING SITE
FLUVANNA COUNTY, VIRGINIA

REVISIONS

DESIGNED BY:	JW
DRAWN BY:	JW
CHECKED BY:	LAJ
SCALE:	
DATE:	APRIL 14, 2025
PROJECT NUMBER:	626503

E1.0

DEMAND FACTOR TABLE

THE TABLE BELOW SHOWS CALCULATION METHODS AND CODE REFERENCES FOR DEMAND FACTORS LISTED ON PANEL SCHEDULES

DEMAND FACTOR DESCRIPTION	CALCULATION DESCRIPTION	DEMAND FACTOR (DF)	CONTINUOUS	TOTAL DEMAND FACTOR (SMALLER PANEL SCHEDULE)	N.E.C. 2020 SECTION
RECEPTACLES	FIRST 10 KVA AT REMAINING AT	100% 50%	N	100% 50%	220.44
LIGHTING	ALL AT	100%	Y	125%	220.42

ALLOWABLE RACEWAY/CABLE MATRIX

	MIN SIZE	CONNECTOR TYPE	OUTDOORS	UNDERGROUND
			ABOVE GROUND	UNDERGROUND
			ABOVE GROUND IN MECHANICAL AREAS	
			DIRECT-BURY	ENGAGED IN CONCRETE DUCT/BANK
			STUB-UP TO ABOVE SLAB	
STEEL ELECTRICAL METALLIC TUBING (EMT-S)	**1/2"	SET SCREW	NOT ALLOWED	
ALUMINUM ELECTRICAL METALLIC TUBING (EMT-A)	N/A	N/A	NOT ALLOWED	
STAINLESS STEEL ELECTRICAL METALLIC TUBING (EMT-SS)	N/A	N/A	NOT ALLOWED	
ELECTRICAL NON-METALLIC TUBING (ENT)	N/A	N/A	NOT ALLOWED	
HIGH-DENSITY POLYETHYLENE (HDPE)	N/A	N/A	NOT ALLOWED	
STEEL INTERMEDIATE METAL CONDUIT (IMC)	3/4"	THREADED	X	X
RIGID STEEL CONDUIT (ERMC-S)	3/4"	THREADED	X	X
RIGID ALUMINUM CONDUIT (ERMC-A)	N/A	N/A	NOT ALLOWED	
RIGID STAINLESS STEEL CONDUIT (ERMC-SS)	N/A	N/A	NOT ALLOWED	
STEEL FLEXIBLE METAL CONDUIT (FMC-S)*	3/4"	SET SCREW		
ALUMINUM FLEXIBLE METAL CONDUIT (FMC-A)*	N/A	N/A	NOT ALLOWED	
STAINLESS STEEL FLEXIBLE METAL CONDUIT (FMC-SS)*	N/A	N/A	NOT ALLOWED	
FLEXIBLE METALLIC TUBING (FMT)	N/A	N/A	NOT ALLOWED	
STEEL LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC-S)*	3/4"	SET SCREW		
LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT (LFNC)	N/A	N/A	NOT ALLOWED	
PVC SCHEDULE 40 (PVC40)	3/4"	SOLVENT		X
PVC SCHEDULE 80 (PVC80)	3/4"	SOLVENT	X	
REINFORCED THERMOSETTING RESIN CONDUIT (RTRC)	N/A	N/A	NOT ALLOWED	
NONMETALLIC CABLE "ROMEX" (NM)	N/A	N/A	NOT ALLOWED	
NONMETALLIC UNDERGROUND CONDUIT WITH CONDUCTORS (NUCC)	N/A	N/A	NOT ALLOWED	
METAL-CLAD CABLE (MC)	N/A	N/A	NOT ALLOWED	
ARMOR-CLAD CABLE (AC)	N/A	N/A	NOT ALLOWED	
MINERAL-INSULATED CABLE (MI)	N/A	N/A	NOT ALLOWED	
TRAY CABLE (TC)	N/A	N/A	NOT ALLOWED	

GENERAL NOTES

- A. ALL METALLIC RACEWAY CONNECTIONS MADE BY THREADING SHALL BE PROVIDED WITH ELECTRICALLY CONDUCTIVE CORRISSION-RESISTANCE COMPOUND.
- B. FINAL CONNECTIONS TO ALL VIBRATING EQUIPMENT (INCLUDING, BUT NOT LIMITED TO TRANSFORMERS, MOTORS, VAV BOXES) SHALL BE IN FLEXIBLE METALLIC CONDUIT. FINAL CONNECTION SHALL BE BETWEEN 12" AND 72" LONG.
- C. WHERE FINAL CONNECTIONS TO VIBRATING EQUIPMENT ARE MADE IN DAMP OR WET LOCATIONS (INCLUDING, BUT NOT LIMITED TO PARKING GARAGES AND MECHANICAL SPACES), FINAL CONNECTION SHALL BE IN LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT. FINAL CONNECTION SHALL BE BETWEEN 12" AND 72" LONG.
- D. ALL RACEWAY SHALL BE CONCEALED EXCEPT IN THE FOLLOWING LOCATIONS: MECHANICAL/ELECTRICAL ROOMS, PARKING GARAGES, AND OTHER LOCATIONS SHOWN ON DRAWINGS. LISTING OF ACCEPTABLE RACEWAYS IN THIS TABLE SHALL NOT IMPLY THAT IT IS PERMITTED TO INSTALL EXPOSED RACEWAY IN ANY LOCATIONS OTHER THAN THOSE LISTED ABOVE.
- E. ALL NONFLEXIBLE RACEWAY BENDS SHALL BE MADE WITH ONE-SHOT BENDERS MATCHING RADIUS REQUIREMENTS OF THE NEC. NO MORE THAN THREE 90-DEGREE BENDS SHALL BE PRESENT BETWEEN PULL POINTS.
- F. NO MULTI-CIRCUIT CABLES SHALL BE PROVIDED THAT DO NOT INCLUDE DEDICATED NEUTRAL WIRES FOR ALL CIRCUITS. SHARING OF NEUTRAL WIRES BETWEEN CIRCUITS IS NOT PERMITTED.

**1/2" EMT SHALL BE USED FOR INDIVIDUAL BRANCH CIRCUITS ONLY. 1/2" EMT SHALL NOT BE USED FOR PANELBOARD HOMERUNS, INCLUDING FOR INDIVIDUAL BRANCH CIRCUITS. PROVIDE MINIMUM 3/4" EMT FOR HOMERUNS AND CONDUITS CONTAINING MORE THAN ONE BRANCH CIRCUIT.

ELECTRICAL WIRE SCHEDULES

GENERAL WIRE NOTES

- A. ALL WIRING THROUGHOUT PROJECT SHALL BE COPPER EXCEPT WHERE EXPLICITLY NOTED OTHERWISE AS ALUMINUM.
- B. ALL WIRING THROUGHOUT PROJECT SHALL BE RATED 600V MINIMUM UNLESS NOTED OTHERWISE.
- C. ALL FEEDERS AND ALL EXPOSED BRANCH CIRCUITS SHALL BE INSTALLED IN RACEWAY. FLEXIBLE CABLES SHALL ONLY BE PERMITTED IN CONCEALED AREAS AND WHERE INDICATED ON ACCEPTABLE RACEWAY MATRIX.

WIRE COLOR CODING

PROVIDE COLOR CODING ON INSULATION AS INDICATED BELOW FOR ALL WIRE. ENTIRE LENGTH OF WIRE SHALL BE COLORED AS INDICATED. IF PERMITTED BY LOCAL AHJ, WIRE GREATER THAN #4/0 AWG MAY BE COLOR-CODED USING VINYL TAPE APPLIED IN HALF-LAPPED TURNS FOR A MINIMUM OF 6" AT ALL ENDS AND SPLICES. COLOR CODING APPLIES TO ALL WIRE USED THROUGHOUT PROJECT, INCLUDING IN FLEXIBLE CABLES. USE OF ONE COLOR FOR MULTIPLE DIFFERENT PHASES OF WIRE IS NOT ACCEPTABLE.

	120V L-G	277V L-G
PHASE A	BLACK	BROWN
PHASE B	RED	PURPLE
PHASE C	BLUE	YELLOW
NEUTRAL	WHITE	GRAY
EQUIPMENT GROUND	GREEN	

*VERIFY IN FIELD EXISTING COLOR SCHEME FOR PHASE B WIRE. WHERE EXISTING WIRE IS ORANGE, PROVIDE ORANGE WIRE. WHERE EXISTING WIRE IS PURPLE, PROVIDE PURPLE WIRE. WHERE EXISTING WIRE CANNOT BE DETERMINED, PROVIDE PURPLE WIRE.

MINIMUM SIZE - 20A BRANCH CIRCUITS

THE TABLE BELOW SHOWS THE MINIMUM WIRE SIZE FOR 20A BRANCH CIRCUITS WHERE WIRE SIZE IS NOT INDICATED ON DRAWINGS. FOR EACH 20A BRANCH CIRCUIT, DETERMINE TOTAL WIRE LENGTH AND PROVIDE WIRE AS INDICATED BELOW FOR ENTIRE LENGTH OF CIRCUIT. WHERE FINAL TERMINATION REQUIRES SMALLER WIRE, TRANSITION TO SMALLER WIRE WITHIN FINAL 10' OF CONNECTION.

	120V L-G	277V L-G
LESS THAN 60'	#12	#12
60' TO 100'	#10	#12
100' TO 150'	#8	#12
150' TO 230'	#6	#10
230' TO 375'	#4	#8

MAXIMUM CONDUIT FILL - 20A BRANCH CIRCUITS

IT IS PERMISSIBLE TO PROVIDE MULTIPLE 20A/1Ø 120V OR 277V BRANCH CIRCUITS WITHIN A SINGLE HARD RACEWAY AS OUTLINED BELOW. ALL MULTI-PHASE CIRCUITS OR CIRCUITS AT OTHER AMPERAGES SHALL BE PROVIDED WITH INDIVIDUAL RACEWAYS. THE TABLE BELOW SHOWS THE NUMBER OF 20A/1Ø 120V OR 277V CIRCUITS PERMITTED WITHIN A RACEWAY BASED ON ITS CONDUCTOR SIZE. WHERE USED IN THIS TABLE, "CIRCUIT" IS DEFINED AS A SINGLE HOT AND NEUTRAL CONDUCTOR. THIS TABLE IS NOT PERMITTED FOR USE WITH FLEXIBLE RACEWAY OR UNDERGROUND RACEWAY.

A SINGLE EQUIPMENT GROUNDING CONDUCTOR IS PERMITTED IN SHARED RACEWAY PROVIDED IT IS SIZED PER THE LARGEST CIRCUIT CONDUCTOR WITHIN THE RACEWAY AND PER NEC REQUIREMENTS. IN NO CASE SHALL A WIRE BE SMALLER THAN MINIMUM SIZE TABLE ABOVE THAT FACTORS IN LENGTH REQUIREMENTS.

	NUMBER OF CIRCUITS				
	3/4" C	1" C	1-1/4" C	1-1/2" C	2" C
#12 BRANCH WIRE	3 CKT	3 CKT	3 CKT	3 CKT	3 CKT
#10 BRANCH WIRE	4 CKT	4 CKT	4 CKT	4 CKT	4 CKT
#8 BRANCH WIRE	2 CKT	4 CKT	7 CKT	10 CKT	10 CKT
#6 BRANCH WIRE	1 CKT	2 CKT	5 CKT	7 CKT	12 CKT
#4 BRANCH WIRE	NP	1 CKT	3 CKT	4 CKT	7 CKT

WIRE STRANDING

THE TABLE BELOW SHOWS WIRE STRANDING REQUIRED FOR LINE-VOLTAGE WIRE. WHERE REQUIRED BY EQUIPMENT VENDORS, PROVIDE STRANDED OR SOLID WIRE IN LIEU OF WHAT IS SHOWN HERE ONLY FOR THAT PIECE OF EQUIPMENT.

#12	SOLID
#10	SOLID
#8	STRANDED
#6 AND LARGER	STRANDED

ELECTRICAL DEVICE FINISH SCHEDULE

	OCCUPIED AREAS		UTILITY AREAS	
	DEVICE COLOR	FACEPLATE FINISH	DEVICE COLOR	FACEPLATE FINISH
DUPLEX RECEPTACLE - NORMAL POWER	WHITE	WHITE	WHITE	STEEL
SPECIAL CONFIGURATION RECEPTACLE - NORMAL POWER	BLACK	WHITE	BLACK	STEEL
LIGHTING CONTROLLER - NORMAL POWER	WHITE	WHITE	WHITE	STEEL

GENERAL NOTES

- A. ALL COLORS SHALL BE IN COMPLIANCE WITH NEMA WD 1. COLORS SHOWN HERE ARE NOMINAL DESCRIPTIONS FOR SPECIFIC COLORS DEFINED IN NEMA WD 1 STANDARD.
- B. WHERE FACEPLATE COLOR IS SAME AS DEVICE COLOR, BOTH COVERPLATE AND DEVICE SHALL BE PROVIDED FROM SAME MANUFACTURER. COLOR DEVIATIONS BETWEEN FACEPLATE AND DEVICE SHALL NOT BE ACCEPTABLE.

LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	LAMP	LIGHT OUTPUT	CCT	LOAD	VOLTAGE	MANUFACTURER	MODEL	NOTES
S1	POLE LIGHT	INTEGRAL LED	18285 lm	3000 K	137 VA	208 V	LITHONIA	DSX0-LED-P6-30K-80CRI-T3M-MVOLT-SPA-DMG-XX	FIXTURE MOUNTED ON 20' SQUARE STEEL POLE MANUFACTURER LITHONIA MODEL #SSS

LIGHTING SEQUENCE OF OPERATIONS

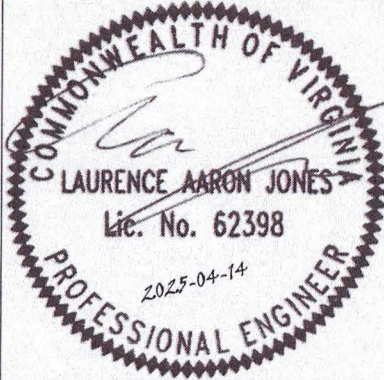
TAG	DESCRIPTION	DAYLIGHT CONTROL	NOTES
8a	EXTERIOR - GENERAL	Yes	PROVIDE PHOTOCELL FOR AUTOMATIC DUSK TO DAWN AND TIMECLOCK. PHOTOCELL TO BE RATED NEMA 3R AND UL-LISTED.

LIGHTING SEQUENCE OF OPERATIONS NOTES:

- A. THIS SEQUENCE IS INTENDED TO SHOW GENERAL OPERATION REQUIREMENTS OF THE LIGHTING CONTROL SYSTEM. EXACT DEVICE PLACEMENT IS NOT SHOWN ON FLOOR PLANS EXCEPT FOR MANUAL CONTROL LOCATIONS. EXACT MEANS OF OPERATION (E.G. DIGITAL, ANALOG, LINE-VOLTAGE) IS NOT DICTATED BY THSE PLANS.
- B. WHERE A ZONE IS SHOWN TO REQUIRE OCCUPANCY SENSING, PROVIDE OCCUPANCY SENSORS AS REQUIRED TO COVER ENTIRE LIGHTING ZONE. A SINGLE WALL-MOUNTED SENSOR THAT IS COMBINED WITH THE MANUAL CONTROLLER IS ACCEPTABLE ONLY WHERE THIS CONTROLLER CAN PROVIDE SENSING COVERAGE FOR THE ENTIRE CONTROL ZONE. WHERE THE ENTIRE CONTROL ZONE WOULD NOT BE COVERED BY A SINGLE DEVICE, PROVIDE CEILING-MOUNTED SENSORS AS RECOMMENDED BY LIGHTING CONTROLS MANUFACTURER TO PROVIDE FULL COVERAGE OF THE AREA.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL DEVICES, WIRING, AND RACEWAY REQUIRED TO MEET SEQUENCE OF OPERATIONS, INCLUDING DEVICES NOT EXPLICITLY SHOWN ON FLOOR PLANS.
- DAYLIGHT CONTROL OPERATION:
1. WHERE DAYLIGHT CONTROL IS SPECIFIED FOR A ZONE TYPE, AND WHERE THAT ZONE TYPE HAS A PRIMARY AND/OR SECONDARY DAYLIGHT ZONE SPECIFIED ON FLOOR PLANS, LIGHTING CONTROLS SHALL DIM LIGHTING WITHIN DAYLIGHT ZONE WHEN LIGHT LEVELS HIGHER THAN NORMAL AMBIENT LIGHT LEVELS ARE DETECED. LIGHTING CONTROLS SHALL DIM LIGHTING UNTIL LIGHT LEVEL WITHIN SPACE REACHES NORMAL AMBIENT LIGHT LEVELS.
2. WHEN DAYLIGHT SENSOR DETECTS THAT LIGHT LEVELS HAVE LOWERED BELOW NORMAL AMBIENT LIGHT LEVELS, LIGHTING CONTROLS SHALL RAISE LIGHT LEVELS UNTIL ONE OF THE FOLLOWING IS REACHED:
- A. NORMAL AMBIENT LIGHT LEVELS
- B. THE LAST DIMMING LEVEL SET BY OCCUPANTS. HOWEVER, THIS SHALL NOT APPLY IF OCCUPANCY SENSOR FOR THE SPACE HAS DETECTED NO MOTION FOR A DURATION GREATER THAN SPECIFIED IN THE "OCC SENSOR TIME-OUT" COLUMN.

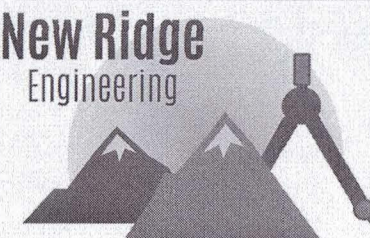
TIMECLOCK OPERATION:

1. WHERE TIMECLOCK IS SPECIFIED, LIGHTING CONTROLS SHALL PERMIT LIGHTS TO BE NO HIGHER THAN THE SPECIFIED LEVEL STARTING AT THE TIME SPECIFIED. HOWEVER, TIMECLOCK SHALL NOT INCREASE LIGHT LEVELS WHERE THEY HAVE BEEN PREVIOUSLY SET BY MANUAL CONTROLS OR OTHER CONTROL DEVICES.
2. TIMECLOCK SCHEDULE LIGHTING SHUT OFF OUTSIDE OF BUILDING OPERATING HOURS.



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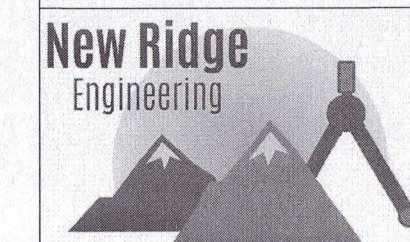
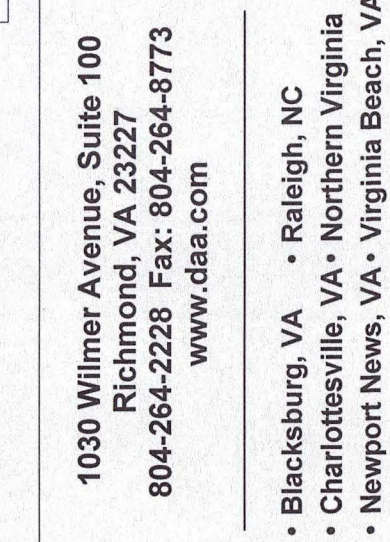
DESIGNED BY:	JW
DRAWN BY:	JW
CHECKED BY:	LAJ
SCALE:	
DATE:	APRIL 14, 2025
PROJECT NUMBER:	626503

E1.1

EQUIPMENT LABEL	EQUIPMENT DESCRIPTION	VOLTAGE	CIRCUIT	FEEDER SIZE
S1	POLE LIGHTS	208 V/1Φ	1LA-3.5	2#12, 1#12 N, 1#12 G, 3/4" C

EQUIPMENT LABEL	EQUIPMENT DESCRIPTION	VOLTAGE	CIRCUIT	FEEDER SIZE
S1	POLE LIGHTS	208 V/1Φ	1LA-3.5	2#12, 1#12 N, 1#12 G, 3/4" C

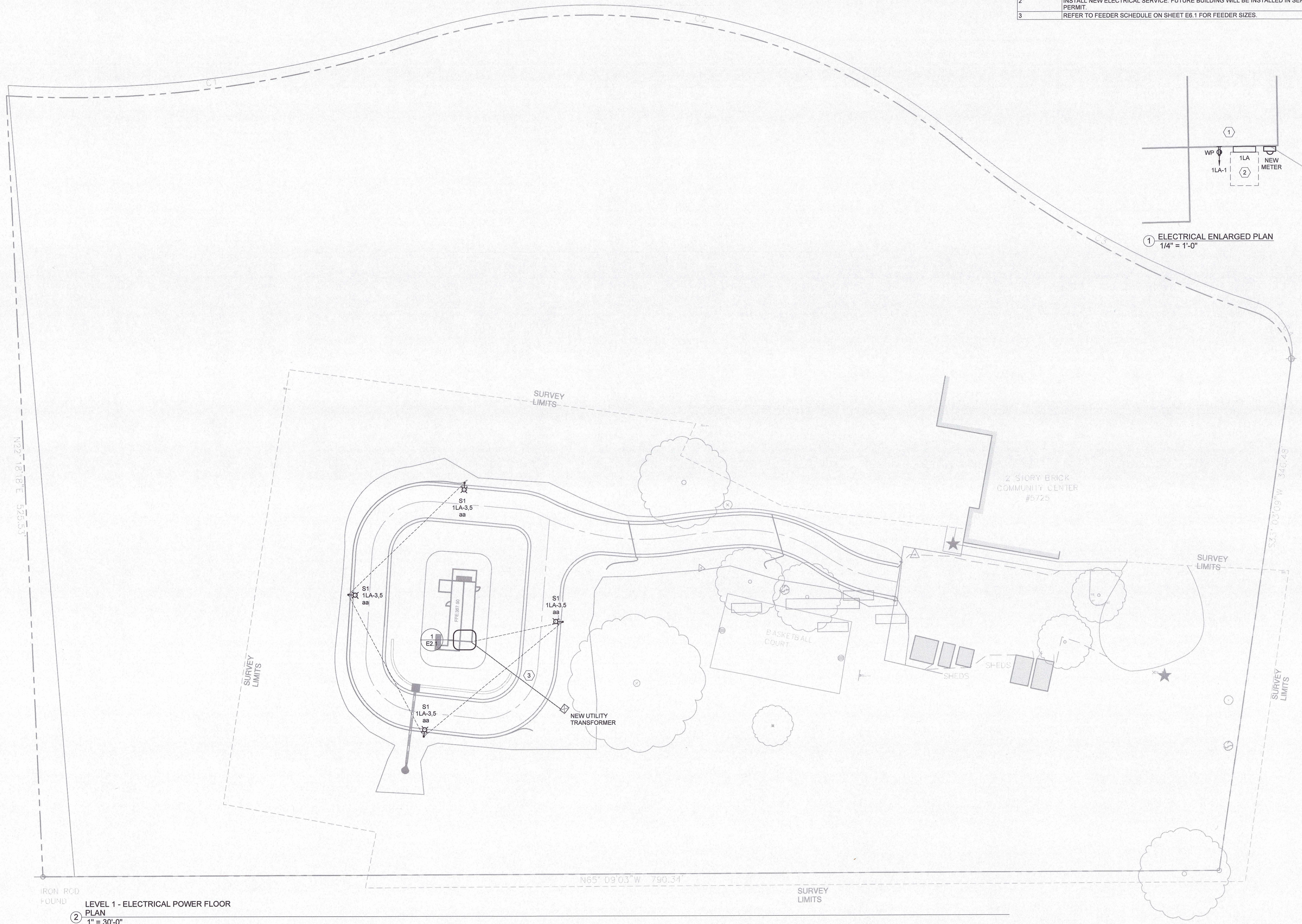
TAG	NOTE
1	INSTALL MIN. 20 FT OF #4 AWG BARE COPPER BOND TO REBAR IN COMPLIANCE WITH NEC 250.52(3) AS PART OF THE GROUNDING ELECTRODE SYSTEM. ELECTRODE TO BE ENCASED IN AT LEAST 2" OF CONCRETE. THE BOTTOM OF FOUNDATION OR FOOTING IN DIRECT CONTACT WITH EARTH. GROUNDING CONNECTION MUST BE ACCESSIBLE FOR INSPECTION, WHERE FUTURE BUILDING WILL BE INSTALLED IN SEPARATE PERMIT. REFER TO DETAIL 2 ON SHEET E6.1 FOR ADDITIONAL INFORMATION.
2	INSTALL NEW ELECTRICAL SERVICE. FUTURE BUILDING WILL BE INSTALLED IN SEPARATE PERMIT.
3	REFER TO FEEDER SCHEDULE ON SHEET E6.1 FOR FEEDER SIZES.



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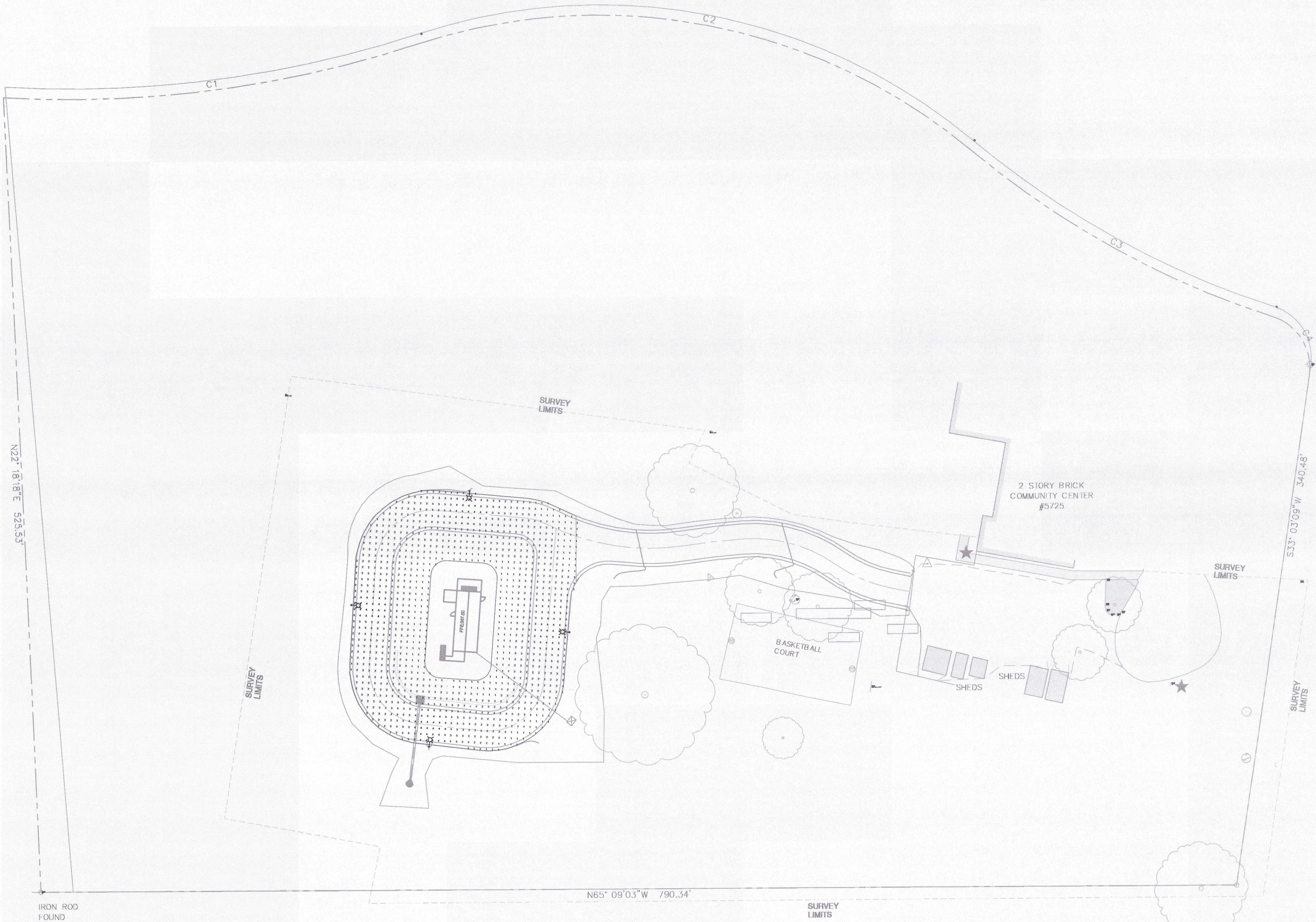
E2.1



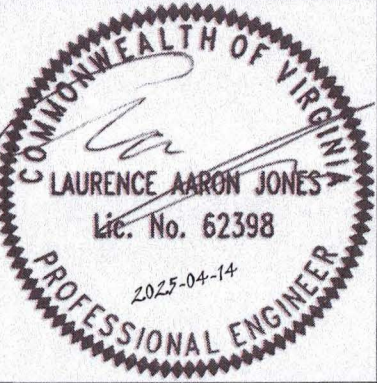
LEVEL 1 - ELECTRICAL POWER FLOOR
PLAN
1" = 30'-0"

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ILLUMINANCE RESULTS					
CALCULATION POINTS NAME	AVERAGE	MAXIMUM	MINIMUM	AVG/MIN	MAX/MIN
AREA	2 fc	4 fc	1 fc	3.4	6.4

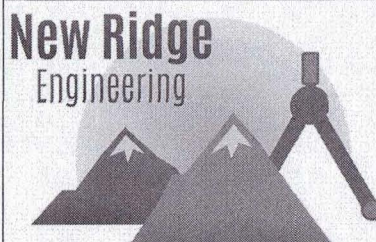


① ELECTRICAL PHOTOMETRICS PLAN
1" = 30'-0"



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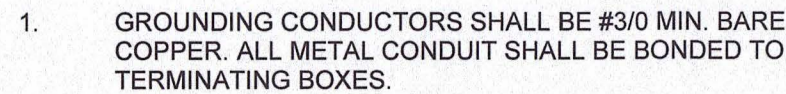


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E2.2



CONNECT GROUNDING ELECTRODE CONDUCTOR TO POLE PER MANUFACTURER'S INSTRUCTIONS

CONCRETE BASE, WIDTH AND DEPTH AS REQUIRED BY STRUCTURAL ENGINEER FOR LOCAL WIND LOADS

PROVIDE REBAR IN BASE AS REQUIRED BY STRUCTURAL AND CIVIL ENGINEER FOR LOCAL SOIL CONDITIONS, POLE HEIGHT AND WEIGHT, AND WIND LOADS

CONNECT POLE TO CONCRETE BASE PER MANUFACTURER'S INSTRUCTIONS

TRANSITION TO RIGID STEEL CONDUIT PRIOR TO TURNING UP ABOVE EARTH

PVC TO RIGID COUPLING

DIRECT-BURY PVC-80 CONDUIT

#8 BARE COPPER GROUNDING ELECTRODE CONDUCTOR

COPPER GROUND ROD, 8' MINIMUM DEPTH

TRANSITION TO RIGID STEEL CONDUIT
PRIOR TO RISING ABOVE FLOOR SLAB.
PVC SHALL NOT BE VISIBLE IN ANY
QUANTITY FROM ABOVE FLOOR.

FLOOR SLAB

RIGID STEEL CONDUIT OR PVC-80
REFER TO FLOOR PLAN FOR
CONDUIT SIZES AND QUANTITIES.

EARTH

ALL ELBOWS
SHALL BE RIGID
STEEL TYPE

LOCATION: EXTERIOR BUILDING
FED FROM: UTILITY
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
BUS TYPE: COPPER

VOLTAGE RATING: 120/208 WYE
CURRENT RATING: 100 A
LUG TYPE: MAIN CIRCUIT BREAKER
MCB RATING: 100 A
MCB TRIP TYPE: TM
AIC RATING: 65 kA

NEUTRAL BUS: Yes
NEUTRAL RATING: 100.00%
GROUND BUS: Yes
ISOLATED GROUND BUS: No
FEED THRU LUGS: No

PANEL NOTES:

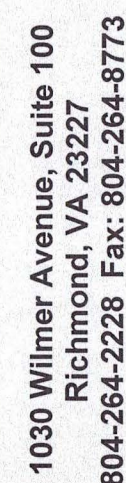
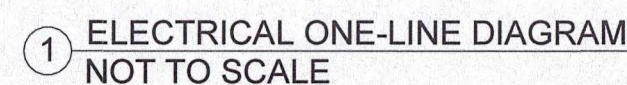
CKT	DESCRIPTION	BREAKER	POLES	TRIP TYPE	NOTES	WIRE	LOAD	A	B	C	LOAD	WIRE	NOTES	TRIP TYPE	POLES	BREAKER	DESCRIPTION	CKT
1	R-SERVICE	20 A	1	TM		THHN	180 VA				---	---		---	1	20 A	SPARE	2
3	L-SITE	20 A	2	TM		THHN	548 VA				---	---		---	1	20 A	SPARE	4
5		---	---	---	---						---	---		---	1	20 A	SPARE	6
7	SPARE	20 A	1	---	---	---	---				---	---		---	1	---	S.O.	8
9	SPARE	20 A	1	---	---	---	---				---	---		---	1	---	S.O.	10
11	SPARE	20 A	1	---	---	---	---				---	---		---	1	---	S.O.	12
13	S.O.	---	1	---	---	---	---				---	---		---	1	---	S.O.	14
15	S.O.	---	1	---	---	---	---				---	---		---	1	---	S.O.	16
17	S.O.	---	1	---	---	---	---				---	---		---	1	---	S.O.	18
19	S.O.	---	1	---	---	---	---				---	---		---	1	---	S.O.	20
21	S.O.	---	1	---	---	---	---				---	---		---	1	---	S.O.	22
23	S.O.	---	1	---	---	---	---				---	---		---	1	---	S.O.	24
25	S.O.	---	1	---	---	---	---				---	---		---	1	---	S.O.	26
27	S.O.	---	1	---	---	---	---				---	---		---	1	---	S.O.	28
29	S.O.	---	1	---	---	---	---				---	---		---	1	---	S.O.	30

	TOTAL LOAD (VA):	TOTAL CURRENT (A):
PHASE A:	180 VA	2 A
PHASE B:	274 VA	2 A
PHASE C:	274 VA	2 A

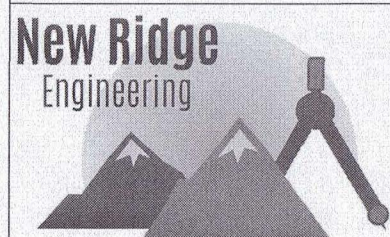
CIRCUIT NOTES:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	PANEL TOTALS
LIGHTING	548 VA	125.00%	685 VA	CONNECTED LOAD: 728 VA
RECEPTACLES	180 VA	100.00%	180 VA	DEMAND LOAD: 865 VA
				CONNECTED CURRENT: 2 A
				DEMAND CURRENT: 2 A

FEEDER TAG	FEEDER DESCRIPTION
100.1	3#1, 1#1 N, 1#8 G, 1-1/2" C THHN



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.IV

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E6.1