

#### DESIGN PARAMETERS AND ASSUMPTIONS:

##### CODE EDITION:

- ☒ FLORIDA BUILDING CODE 5th EDITION (2014)  
☒ ASCE 7-10 (EXPOSURE CONDITION, INDICATE C)  
CONSTRUCTION TYPE: VB  
OCCUPANCY CLASSIFICATION: U

##### BUILDING DESIGNED AS:

☐ PARTIALLY ENCLOSED ☒ GROUND LEVEL WALL ☐ OPEN ☐ TESTED (WIND TUNNEL)

##### BUILDING HEIGHT:

$H \leq 60ft.$  (ASCE 7-10)

☐  $> 60ft.$  (MUST USE ASCE 7)

##### MEAN ROOF HEIGHT: 15'-0" MAX.

(FOR LOW RISE BLDG. WITH SLOPED ROOFS)

##### RISK CATEGORY I

(DETERMINED BY BUILDING USE/ OCCUPANCY, REFER TO ASCE 7-10 TABLE 15-1)

##### BASIC WIND VELOCITY PRESSURES:

APPROPRIATE POSITIVE / NEGATIVE PRESSURE COEFFICIENTS HAVE BEEN APPLIED TO MAIN WIND FORCE RESISTING SYSTEM, AND BUILDING ENVELOPE COMPONENTS AND CLADDING, AS APPLICABLE USING ALLOWABLE STRESS DESIGN

WIND SPEED 156  $V_{50}$  121  $V_{60}$  BASIC VELOCITY PRESSURE 27.0  $P_{50}$

SOIL BEARING CAPACITY 2500  $P_{50}$

##### STATEMENT:

I CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THESE PLANS AND SPECIFICATIONS HAVE BEEN DESIGNED TO COMPLY WITH THE APPLICABLE STRUCTURAL PORTIONS OF THE BUILDING CODES.

I ALSO CERTIFY THAT THE STRUCTURAL COMPONENTS, SYSTEMS, & RELATED ELEMENTS PROVIDE ADEQUATE RESISTANCE TO WIND LOADS AND FORCES SPECIFIED BY THE CODES LISTED BELOW.

#### STRUCTURAL NOTES

THIS PLAN COMPLIES WITH THE REQUIREMENTS OF A.C.I. 530-11 / A.S.C.E. 5-11 FOR THE DESIGN OF MASONRY STRUCTURES.

THIS PLAN IS DESIGNED USING THE WIND LOAD PROVISIONS OF A.S.C.E. 7-10

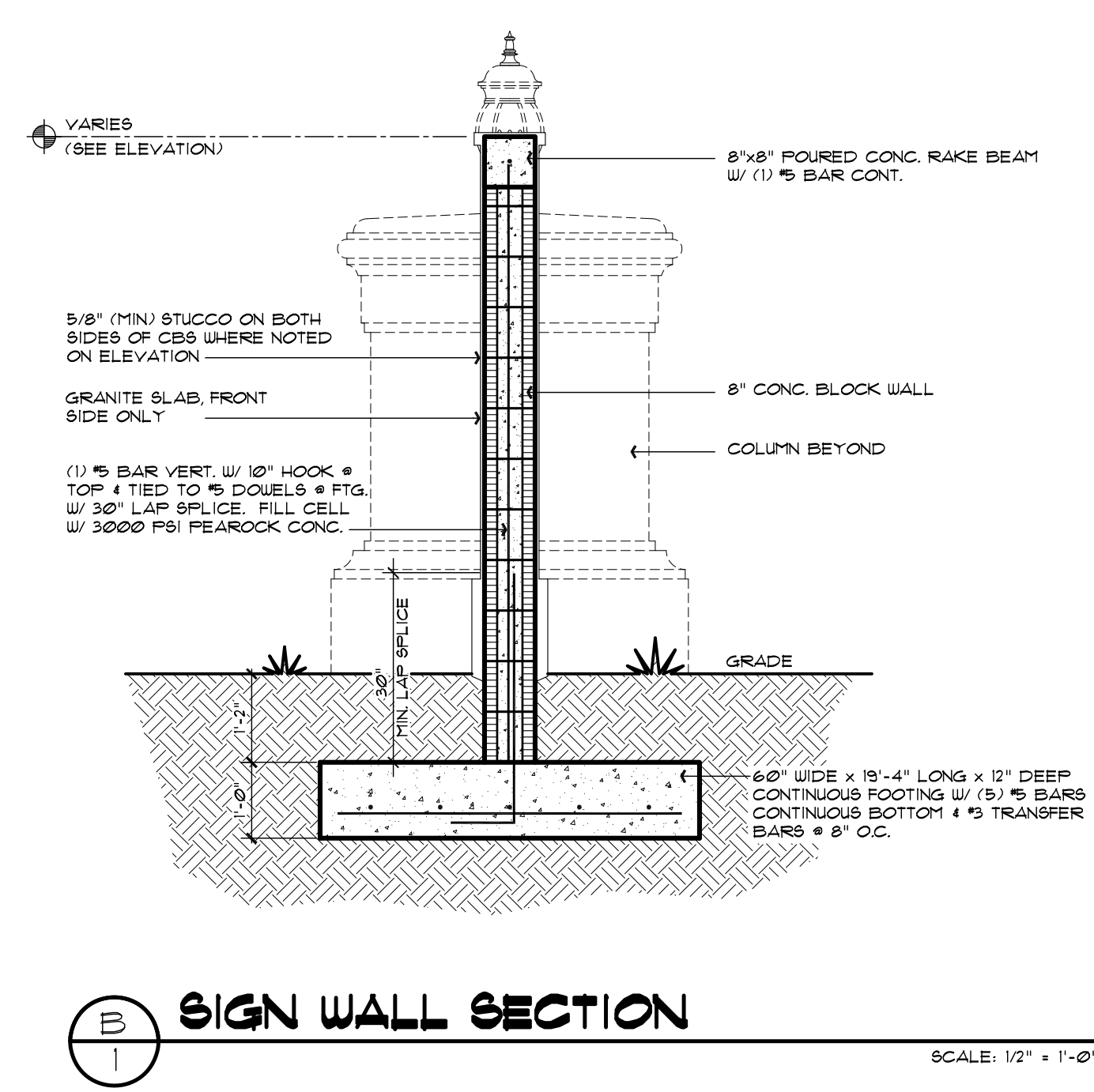
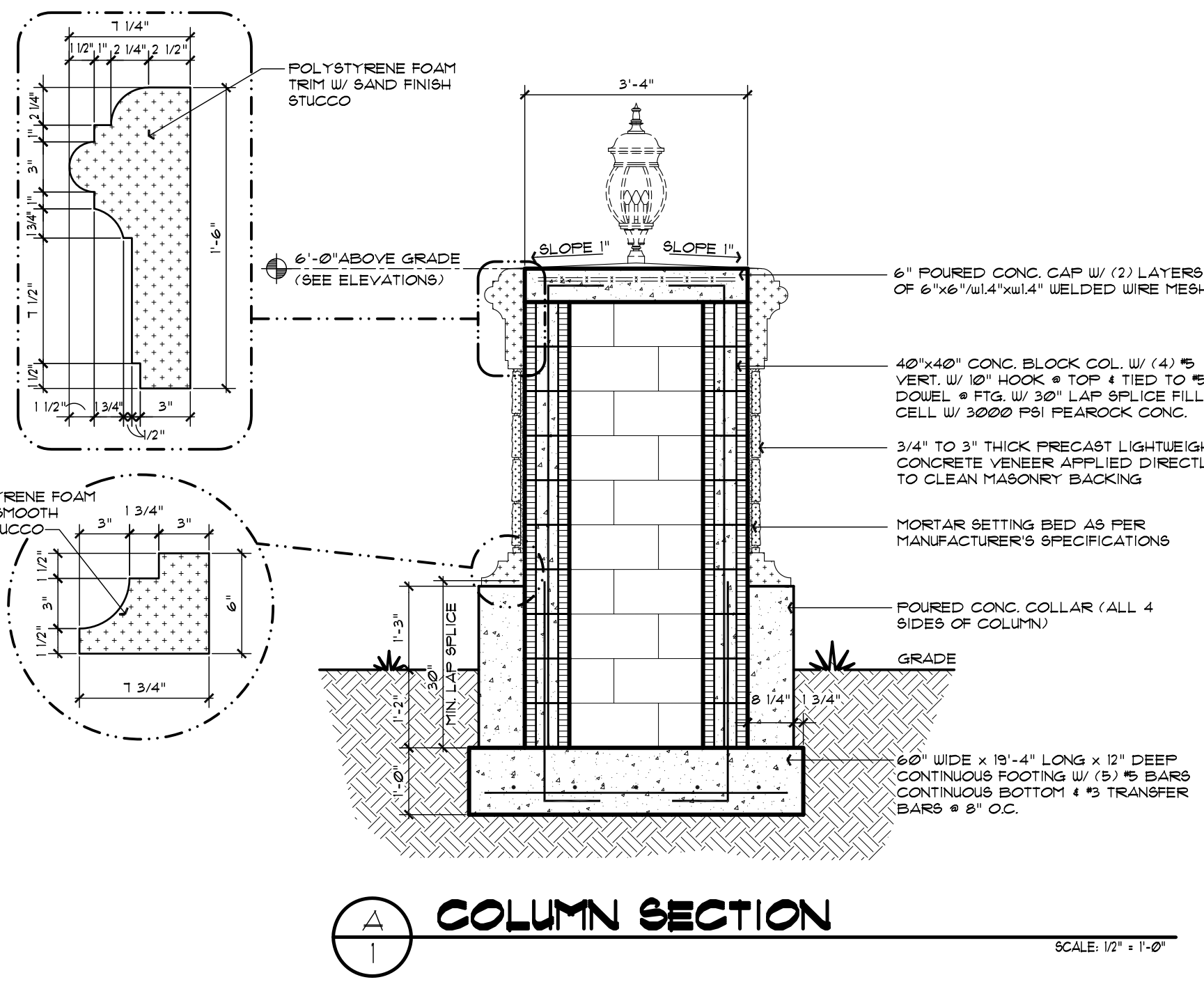
#### REINFORCED MASONRY NOTES

- DESIGN OF THE REINFORCED MASONRY IS BASED ON THE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, A.C.I. 530-11, AND THE SPECIFICATIONS FOR MASONRY STRUCTURES, A.C.I. 530.1-11
- CONCRETE BLOCK SHALL BE NEW AND UNDAMAGED AND CONFORM TO THE REQUIREMENTS OF ASTM C 90, 1" x 16" x 16" MIN. BLOCK IS TO BE HANDLED AND STORED TO PREVENT DAMAGE TO AND CONTAMINATION OF THE UNITS.
- MORTAR TO CONFORM TO THE REQUIREMENTS OF ASTM C 270, TYPE M OR S. MORTAR TO BE TESTED IN ACCORDANCE WITH ASTM C 134 AT THE BEGINNING OF THE PROJECT AND AT EVERY 5000 SF OF WALL AREA.
- GROUT FOR FILLED CELLS SHALL BE 3000 psi (MIN) AND CONFORM TO THE REQUIREMENTS OF ASTM C 476 WITH A SLUMP OF 8" TO 10". CONCRETE FILLED CELL MIX WITH A 1" OF 3000 AND A SLUMP OF UP TO 8" MAY BE SUBSTITUTED FOR THE SPECIFIED GROUT. GROUT (OR FILLED CELL MIX) TO BE TESTED EVERY FOUR AND AT EVERY 50 YARDS MIN. WHEN GROUTING IS STOPPED FOR ONE HOUR OR MORE THE GROUT SHALL BE STOPPED 15" BELOW THE TOP OF THE CONCRETE BLOCK.
- REINFORCING STEEL SHALL COMPLY WITH ASTM A 615, GRADE 60. ALL STEEL TO BE #5 UNLESS NOTED OTHERWISE. PLACED IN THE CENTER OF THE CELLS, UNLESS NOTED OTHERWISE. CELLS TO BE FREE OF MORTAR AND CELLS SHALL ALIGN VERTICALLY TO MAINTAIN A CLEAR UNOBSTRUCTED VERTICAL CELL. MINIMUM WIDTH OF GROUT SPACE SHALL BE 4". STEEL TO BE LAPPED 48 BAR DIAMETERS MINIMUM AND HOOKED INTO BEAMS 10" MINIMUM.
- CLEANOUTS SHALL BE PROVIDED FOR ALL FILLED CELLS AT THE BOTTOM OF EACH LIFT FOR INSPECTION.
- MATERIAL CERTIFICATES SHALL BE SUBMITTED AND APPROVED FOR THE REINFORCING STEEL, MASONRY UNITS, MORTAR AND GROUT MATERIALS.
- WHERE DOUELS WERE NOT PROPERLY PLACED IN THE FOUNDATION, NEW DOUELS MAY BE DRILLED (7/8" DIA. x 8" DEEP MIN) AND EPOXIED IN PLACE WITH "US ANCHOR ULTRABOND EPOXY"

#### CONCRETE NOTES

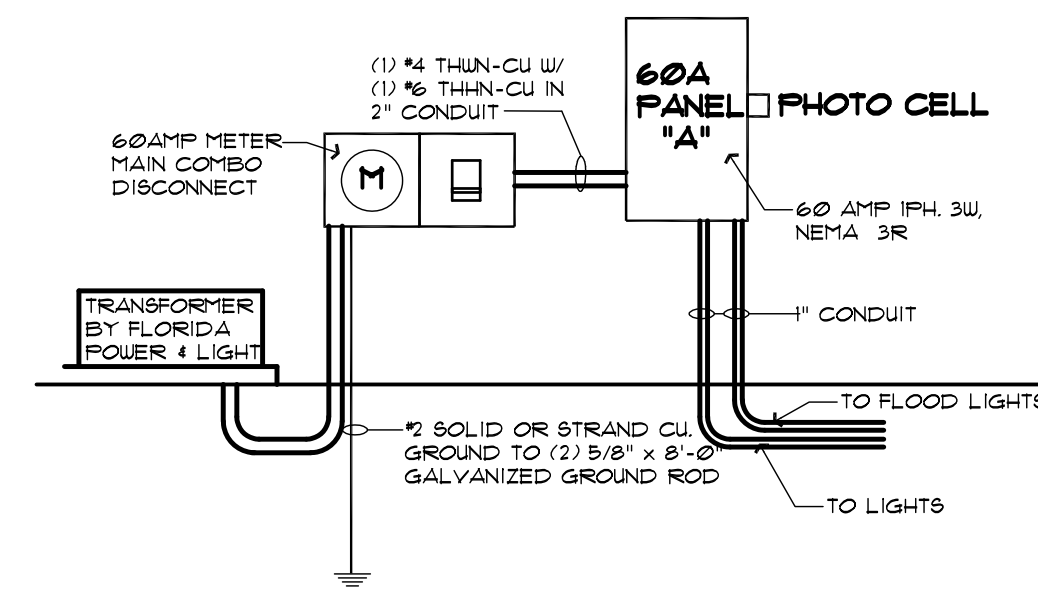
- ALL CONCRETE TO ATTAIN A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3000 P.S.I. IN 28 DAYS. AGGREGATES TO BE CLEAN AND WELL GRADED, MAXIMUM SIZE 3/4". CONCRETE SLUMP 5" MINIMUM TO 6" MAXIMUM. CONCRETE MIX FOR FILLED CELLS & BEAMS TO BE 3000 P.S.I. READY MIX CONCRETE WITH 60-70" SLUMP, OR 2500 P.S.I. MIN. CELL FILL MIX W/ 8" x 1" SLUMP, 2500 P.S.I. FOR 4 FOUNDATIONS.
- MINIMUM CONCRETE COVER FOR REINFORCING BARS:

| STRUCTURAL PART              | MINIMUM COVER |
|------------------------------|---------------|
| FOOTINGS (CAST AGAINST SOIL) | 3"            |
| SLABS (CAST AGAINST SOIL)    | 1 1/2"        |
| SLABS (ABOVE GRADE LEVEL)    | 3/4"          |
| BEAMS AND COLUMNS            | 1 1/2"        |
- REINFORCING BARS, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW BILLET STEEL MEETING ASTM A615, GRADE 60. REINFORCING BARS SHALL BE DETAILED, FABRICATED, SUPPORTED IN FORMS AND SPACED WITH ACCESSORIES FOLLOWING THE REQUIREMENTS OF THE "MANUAL OF STANDARD PRACTICES FOR DETAILING REINFORCED CONCRETE STRUCTURES" (A.C.I. 318).
- LAP ALL REINFORCING BAR SPICES 36 BAR DIAMETERS (UNLESS OTHERWISE NOTED). ALL REINFORCING BARS SHALL BE SECURELY WIRED TOGETHER IN THE FORMS. TWO-WAY MATHS OF STEEL SHALL BE TIED AT ALTERNATE INTERSECTIONS BOTH WAYS. PROVIDE CORNER BARS AT ALL CORNERS FOR ALL CONTINUOUS REINFORCING IN UNIT MASONRY 5" x 5'-0" (30" EA. WAY) UNLESS OTHERWISE NOTED.



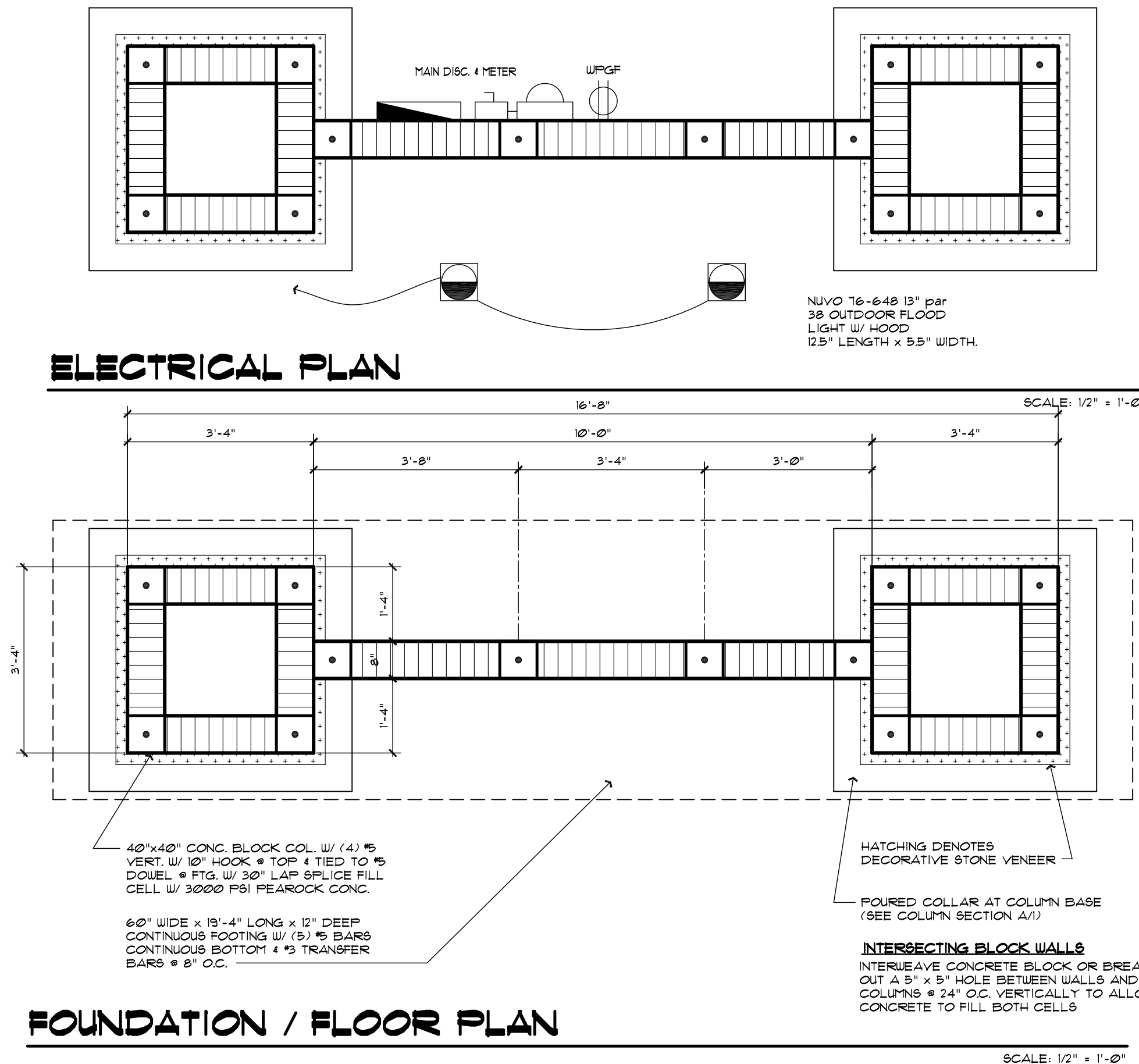
| ELECTRICAL PANEL SCHEDULE "A"                          |              |         |                  |  |         |            |         |              |           |
|--|--------------|---------|------------------|--|---------|------------|---------|--------------|-----------|
| SERVICE: 120/240 1-PH 3W<br>MOUNTING: POLES<br>TYPE: B |              |         |                  | MAIN BUS: 60 AMP FULL<br>NEUTRAL: 60A main breaker<br>A.I.C. |         |            |         |              |           |
| WIRE SIZE  | POLE/BREAKER | LOAD    | USE              | CIRCUIT  | CIRCUIT | USE        | LOAD    | POLE/BREAKER | WIRE SIZE |
| PC #2  | 1P/20A       | 10 KW   | SIGN WALL LIGHTS | 1  | 2       | GFI OUTLET | 15 KW   | 1P/20A       | #2        |
| PC #2  | 1P/20A       | 2 KW    | FLOOD LIGHTS     | 3  | 4       | SPACE      |         |              |           |
|  |              |         | SPACE            | 5  | 6       | SPACE      |         |              |           |
|  |              |         | SPACE            | 7  | 8       | SPACE      |         |              |           |
|  |              | (12 KW) |                  |  |         |            | (15 KW) |              |           |

PC = PHOTOCELL CONTROLLED (DAWN TO DUSK)



#### ELECTRICAL LEGEND

- UPLIGHT FOR COMMUNITY SIGNAGE  
 WATER PROOF GFCI RECEPTACLE



| Date | Document History |
|------|------------------|
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| Document Information |           |
|----------------------|-----------|
| Project #:           | CPSIGN-FP |
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