

**Project Information**  
**Commonwealth Follies**

New 1 story public restroom and pump house at Commonwealth Park.

**Building Information**

This project was designed under the 2017 OBC, 2017 NEC, 2017 OPC and 2017 OMC  
 Building is concrete masonry unit construction with stone veneer and aluminum siding  
 with nominal lumber roof framing.

Building Area	East Folly - Restroom	105 SF
	West Folly - Pump House	143 SF
	<b>Total</b>	<b>248 SF</b>

**Owner:**  
**City of Bexley**

Elena Andrews  
 2242 E. Main Street, Bexley, Ohio, 43209  
 Phone 614-559-4200

**Architect of Record:**  
**Marzich Architecture**

Brian Marzich  
 2465 Seneca Park Place, Bexley, Ohio, 43209  
 Phone 614-314-0260

**Structural Engineer:**  
**Schaefer**

Jim Miller  
 537 East Pete Rose Way, Cincinnati, Ohio 45202  
 Phone 513-562-2718

**MEP Engineer:**  
**VMP Engineering Inc.**

Sean Smith  
 6225 Emerald Parkway, Dublin, Ohio 43016  
 Phone 614-408-3862

**Utilities:**

WATER & SEWER:  
 CITY OF COLUMBUS  
 DEPARTMENT OF PUBLIC UTILITIES  
 910 DUBLIN ROAD COLUMBUS, OH 43215  
 SEWERS & DRAINAGE: 645-7175  
 WATER: 645-8270

GAS:  
 COLUMBIA GAS  
 1600 DUBLIN ROAD  
 COLUMBUS, OH 43215  
 1-800-440-8111

ELECTRIC:  
 AMERICAN ELECTRIC POWER  
 CUSTOMER SERVICE: 1-800-277-2177  
 UNDERGROUND LINE LOCATION: 1-800-362-2764

TELEPHONE:  
 NA

CATV:  
 NA

**SHEET INDEX**

A0.1 COVER SHEET  
 A0.2 GRAPHIC SITE PLAN

CIVIL  
 BY OTHER - CONTACT OWNER

A1.0 PLANS, INTERIOR ELEVATIONS  
 A2.0 EXTERIOR ELEVATIONS, DOOR AND WINDOW INFO  
 A3.0 SECTIONS

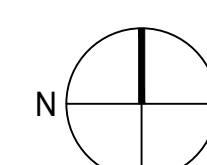
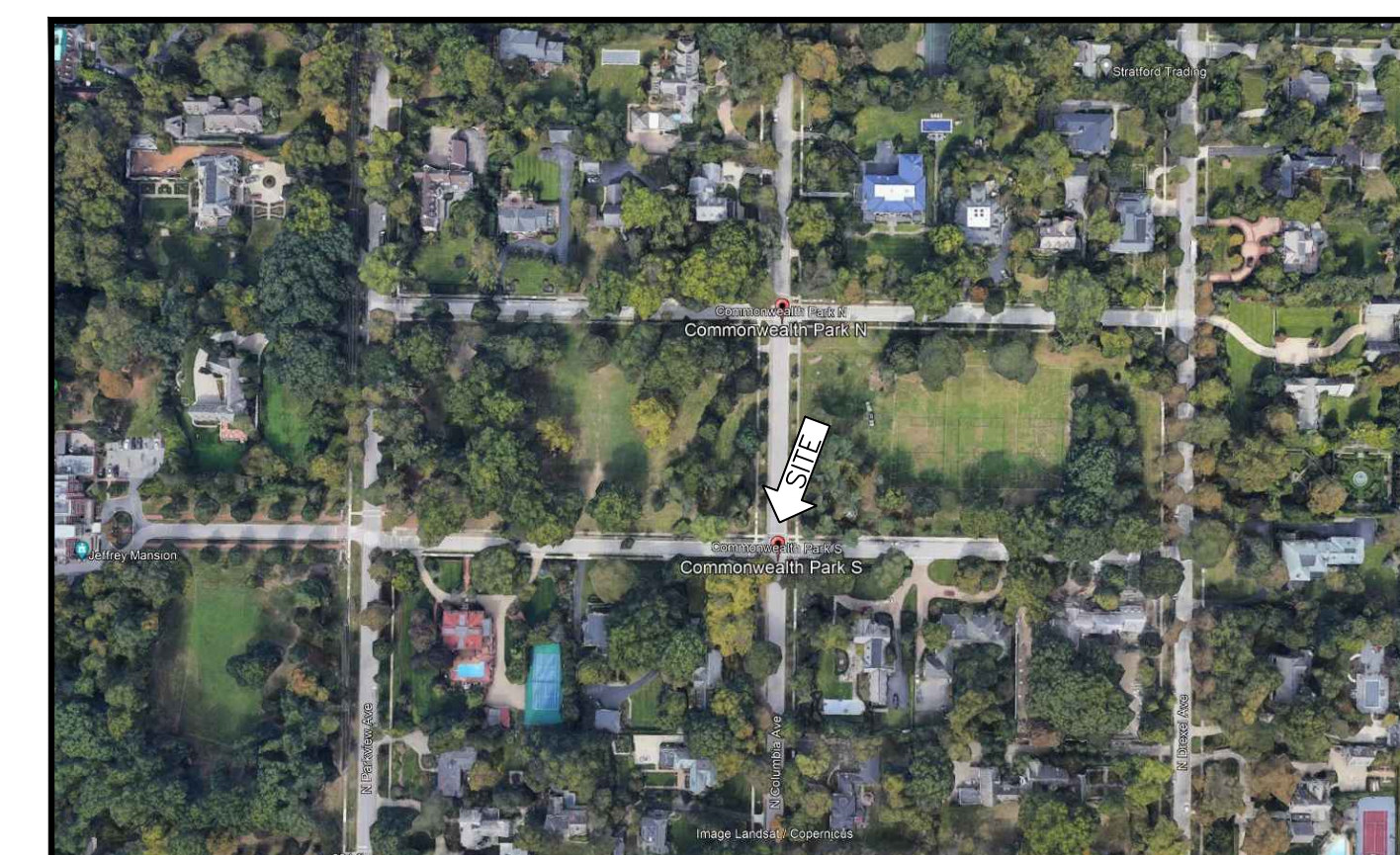
S1.0 STRUCTURAL NOTES AND SPECIFICATIONS

H1.1 HVAC PLAN  
 H2.1 HVAC SPECIFICATIONS

E1.1 ELECTRICAL PLAN  
 E2.1 ELECTRICAL SPECIFICATIONS

P1.1 PLUMBING PLAN AND SPECIFICATIONS

**Location Map**  
 No Scale



**BID SET**  
 MARCH 22, 2023

BID SET

**MARZICH**  
 ARCHITECTURE  
 2465 SENECA PARK PLACE - BEXLEY, OHIO 43209  
 614.314.0260

**JONES**  
 BRIAN KENT JONES ARCHITECTS, INC.  
 393 CITY PARK AVENUE COLUMBUS, OH 43215  
 614.386.3729 F 614.386.7015

**COMMONWEALTH FOLLIES**

NEW RESTROOM AND PUMP HOUSE  
 COMMONWEALTH PARK, BEXLEY, OHIO

Date: March 22, 2023 - BID SET

Scale: VARIES

Sheet

**A0.1**



WEST FOLLY

EAST FOLLY

**COMMONWEALTH PARK PLAZA  
PROPOSED SITE PLAN - ENLARGEMENT**

**MKSK JONES**

**COMMONWEALTH FOLLIES**

NEW RESTROOM AND PUMP HOUSE  
COMMONWEALTH PARK, BEXLEY, OHIO

Date: March 22, 2023 - BID SET

Scale: VARIES

Sheet

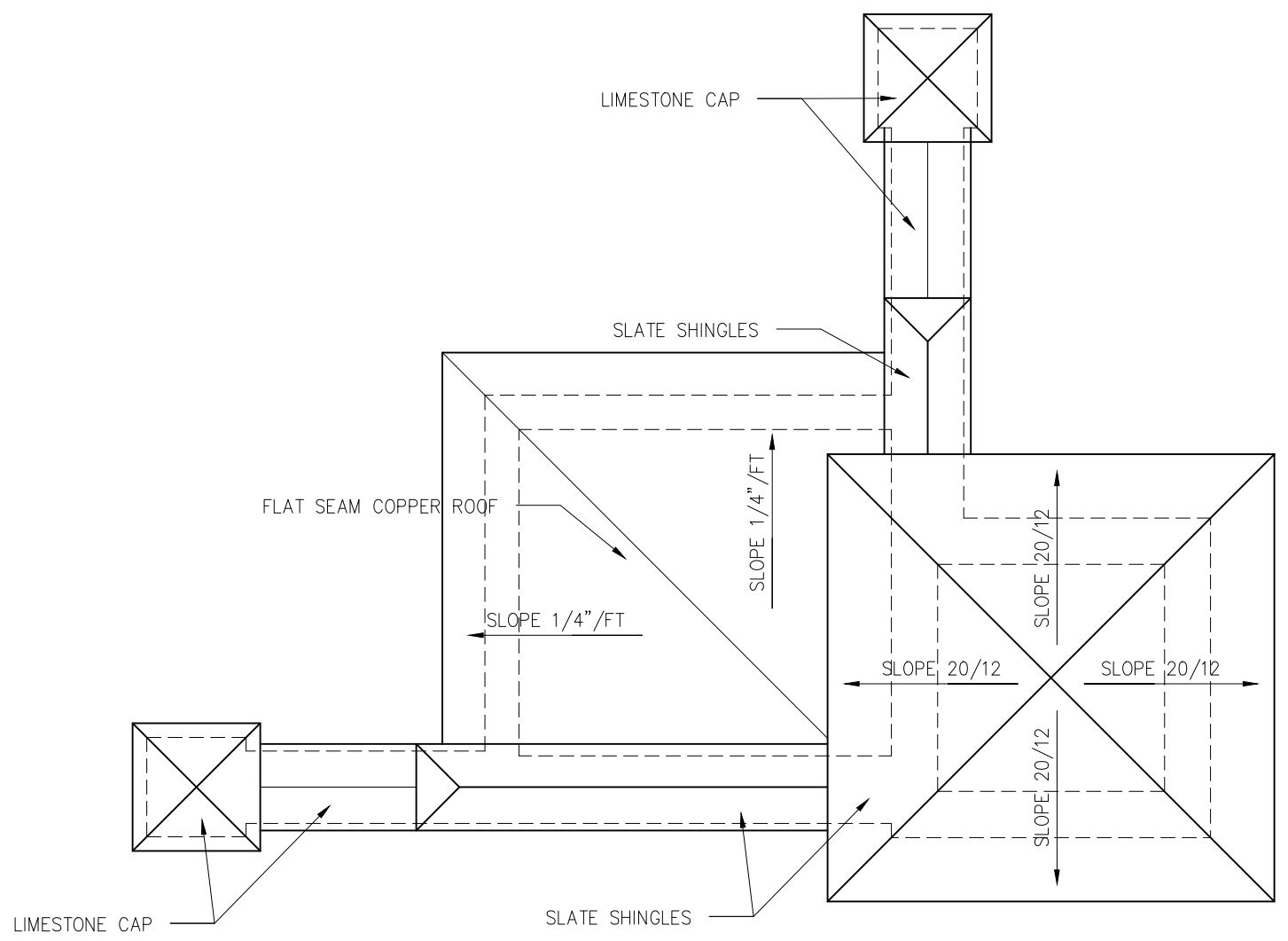
**A0.2**

**MARZICH  
ARCHITECTURE**  
2465 SENECA PARK PLACE - BEXLEY, OHIO 43209  
614.314.0260

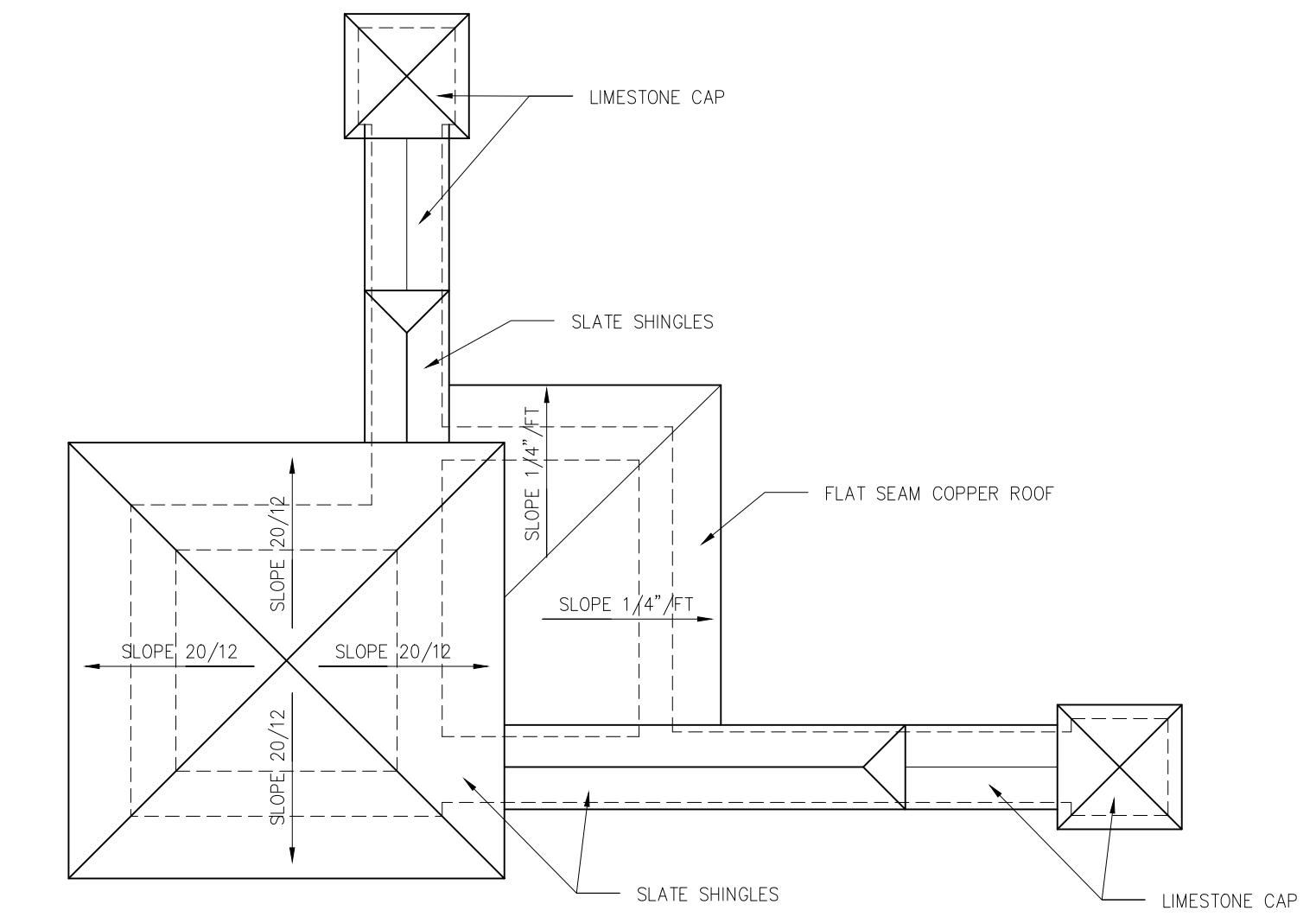
**JONES**  
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393 CITY PARK AVENUE COLUMBUS, OH 43215  
614-346-3729 F 614-346-7015

BID SET

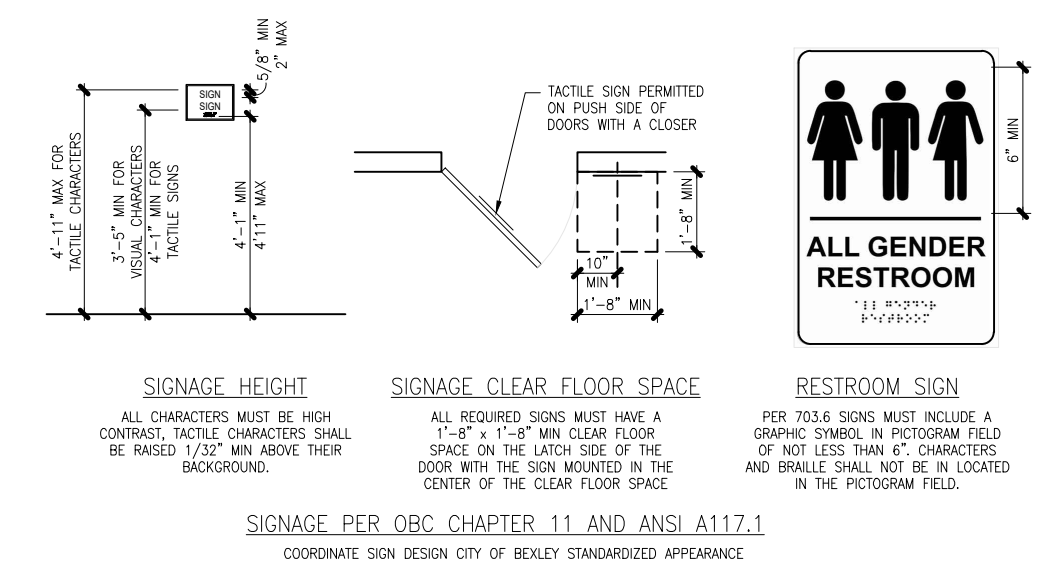
ROOM FINISH SCHEDULE											
ROOM NO	ROOM NAME	FLOOR	BASE	WALLS (SUBSTRATE / FINISH)				CLG MATL/ FINISH	HEIGHT	TRIM/ DOORS	REMARKS
				NORTH	EAST	SOUTH	WEST				
101	RESTROOM	SEALED CONC.	-	CMU PAINTED	CMU PAINTED	CMU PAINTED	CMU PAINTED	GYP BD PAINTED	-	-	
102	RESTROOM	SEALED CONC.	-	CMU PAINTED	CMU PAINTED	CMU PAINTED	CMU PAINTED	GYP BD PAINTED	-	-	



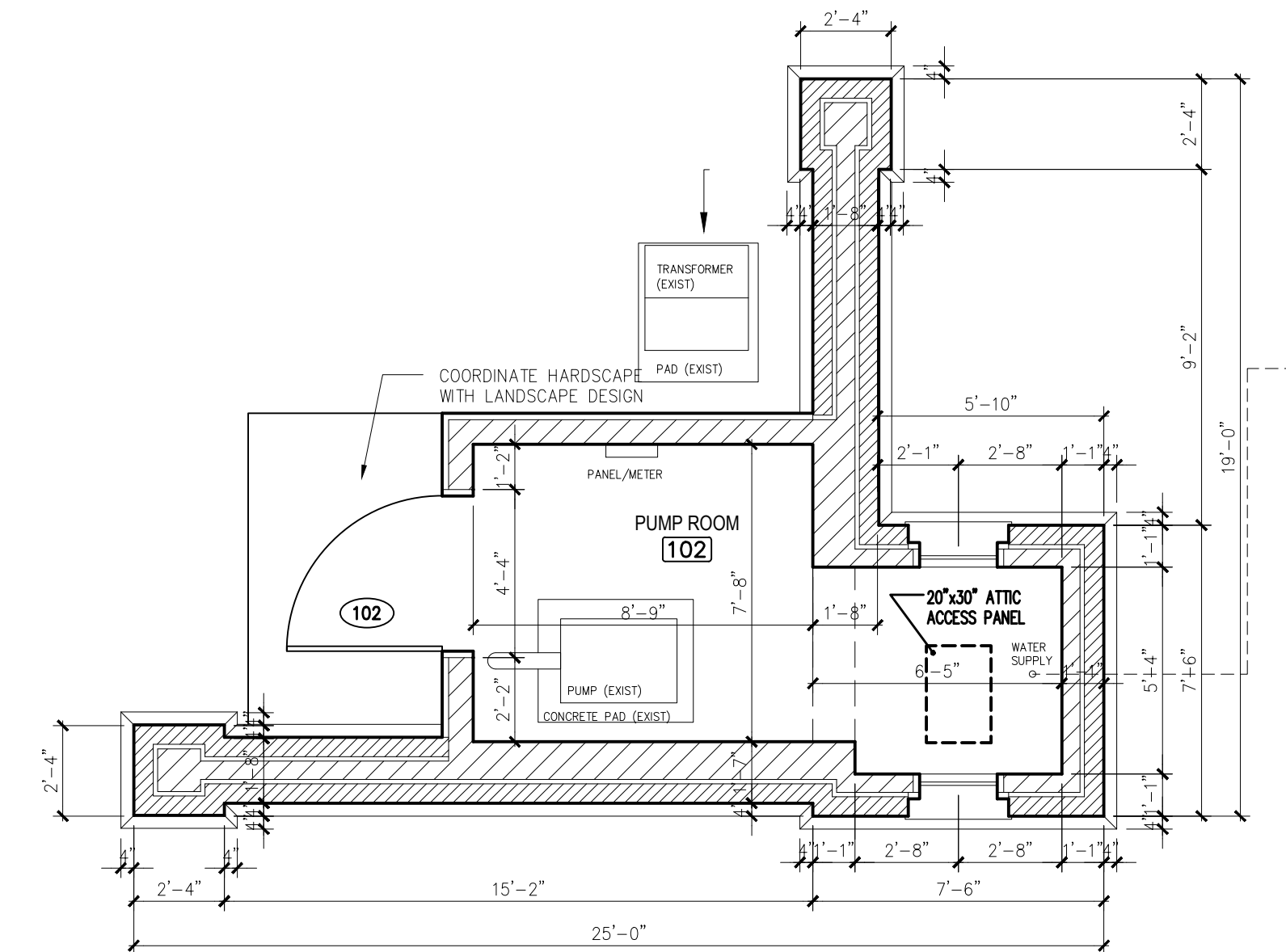
**WEST FOLLY - ROOF PLAN**  
1/4"=1'-0"



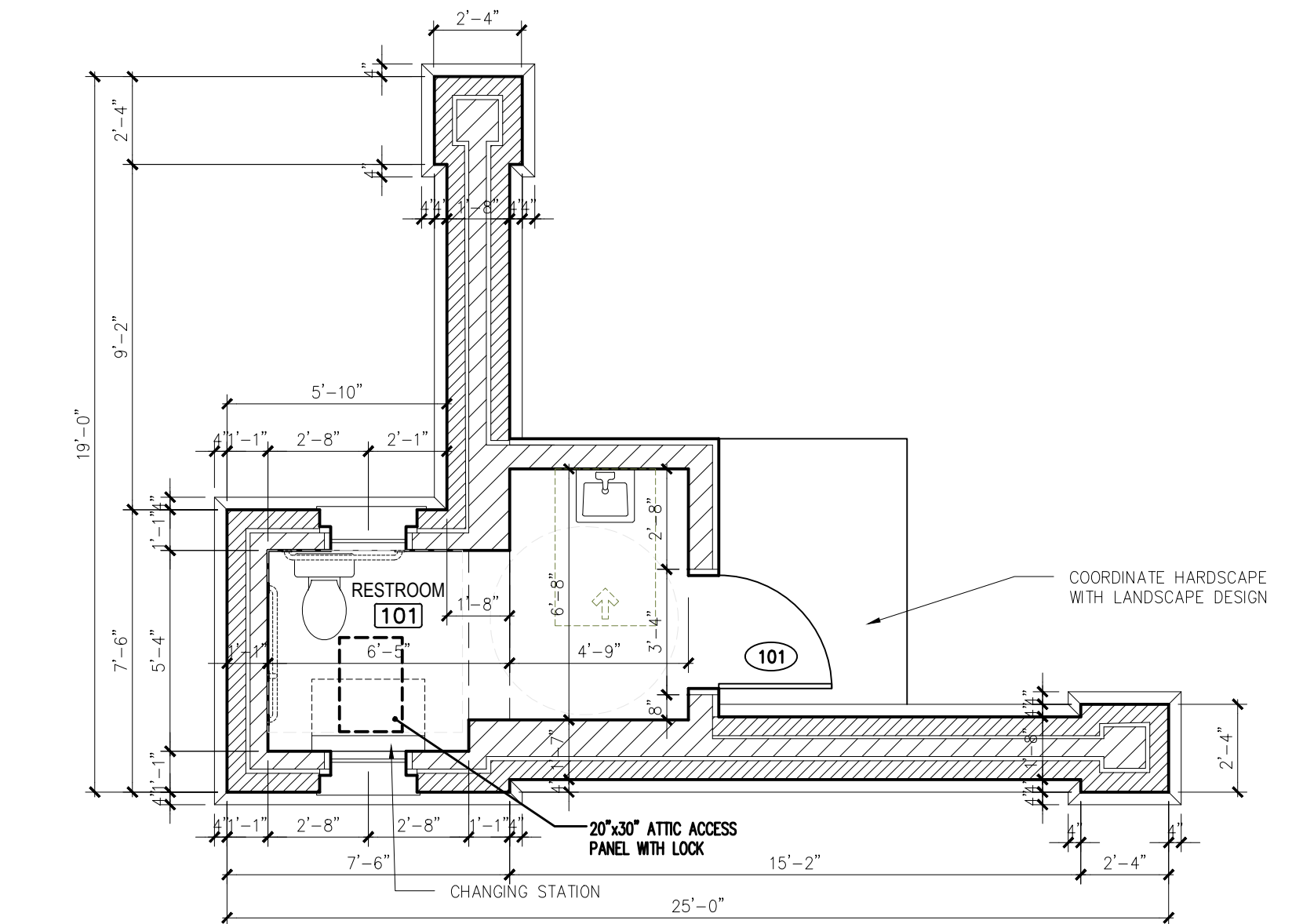
**EAST FOLLY - ROOF PLAN**  
1/4"=1'-0"



**2 SIGNAGE**  
A1.0 NO SCALE

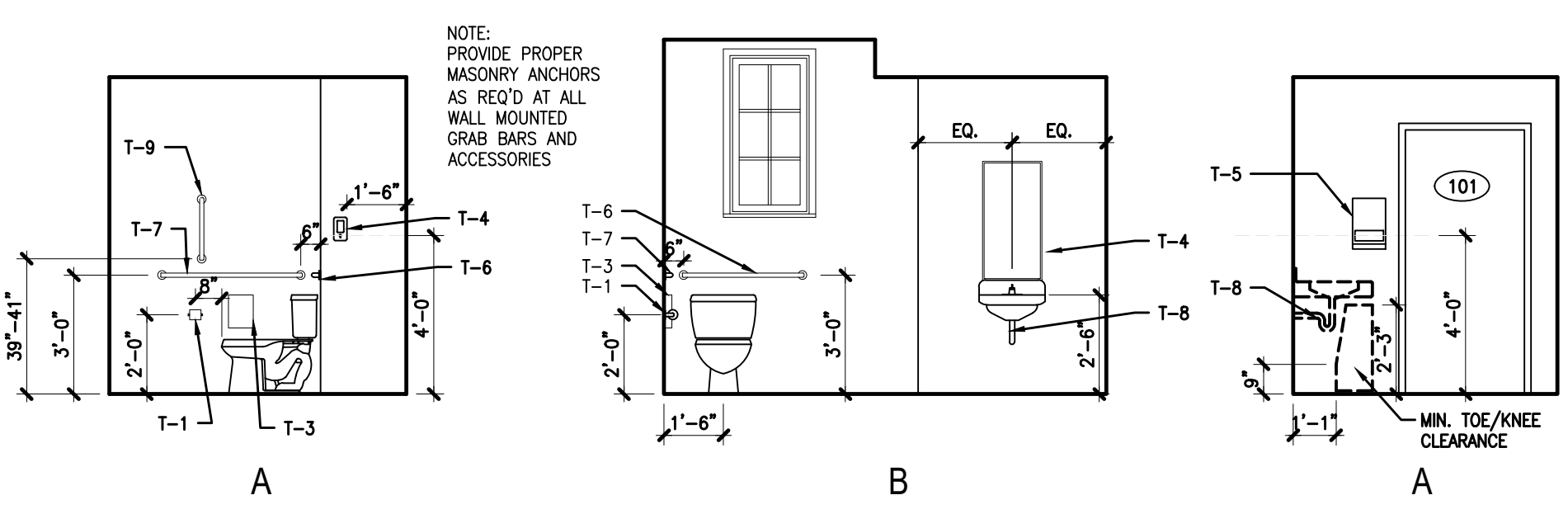


**WEST FOLLY - FLOOR PLAN**  
1/4"=1'-0"

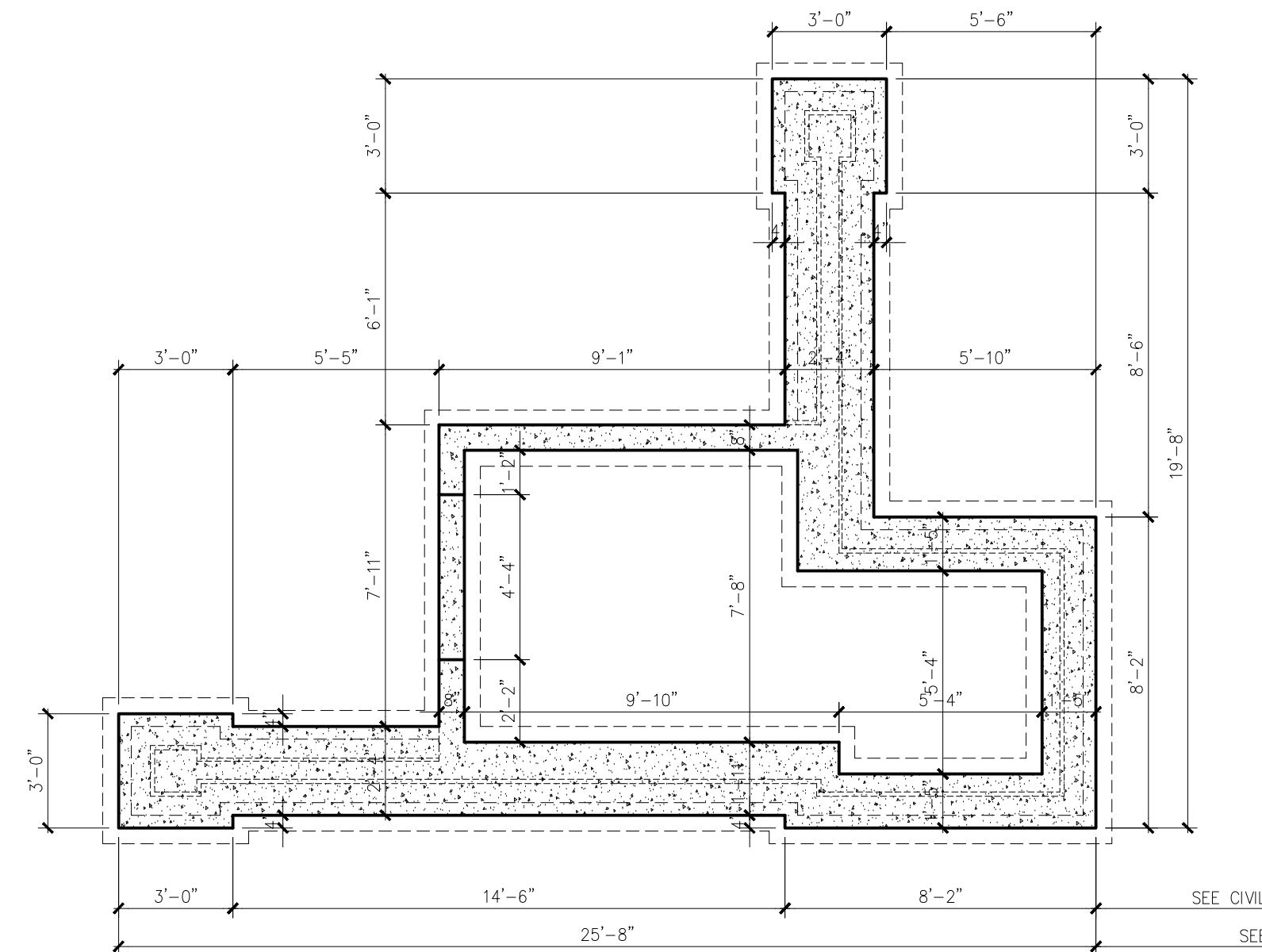


**EAST FOLLY - FLOOR PLAN**  
1/4"=1'-0"

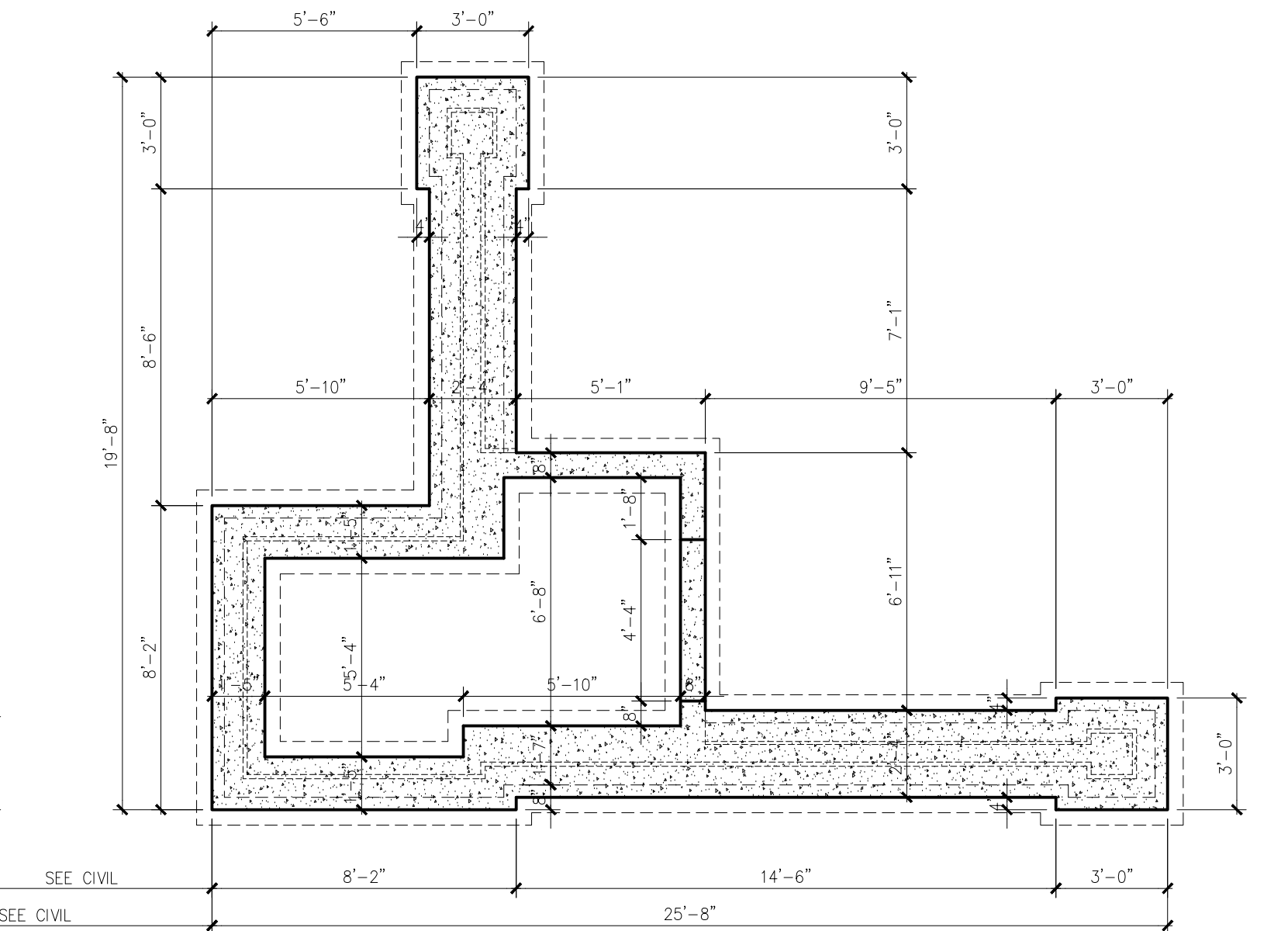
TOILET ROOM ACCESSORY SCHEDULE	
T-1	Bobrick - B-2730 Surface-Mounted Toilet Tissue Dispenser for Single Roll
T-2	18"x36" mirror with stainless steel frame. Mounting ht to bottom of mirror to be 40" max. a.f.f.
T-3	Bobrick - B-254 Surface-Mounted Sanitary Napkin Disposal
T-4	Bobrick - B-4112 Surface-Mounted Soap Dispenser
T-5	Bobrick - B-262 Surface-Mounted paper Towel Dispenser
T-6	36" Grab bar: 36" A.F.F. to bar centerline and 6" from side wall. Provide blocking as req'd.
T-7	42" Grab bar: 36" A.F.F. to bar centerline and 6" from back wall. Provide blocking as req'd.
T-8	Protective Pipe Covers: "Low-Guard" by Triabro
T-9	18" Vertical Grab bar: 39"-41" A.F.F. Provide blocking as req'd.



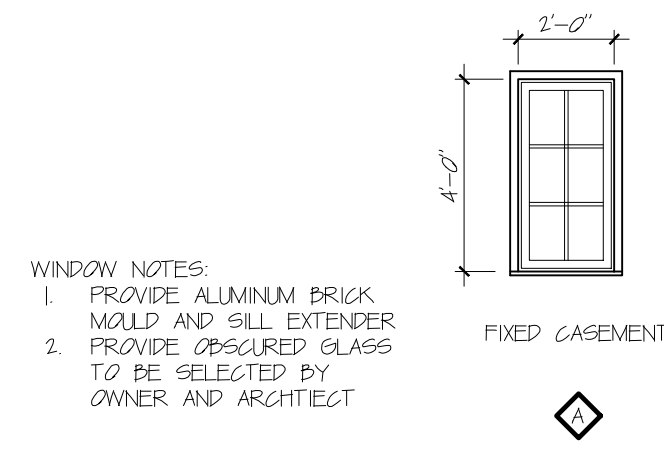
**1 INTERIOR ELEVATIONS**  
A1.0 1/4" = 1'-0"



**WEST FOLLY - FOUNDATION PLAN**  
1/4"=1'-0"

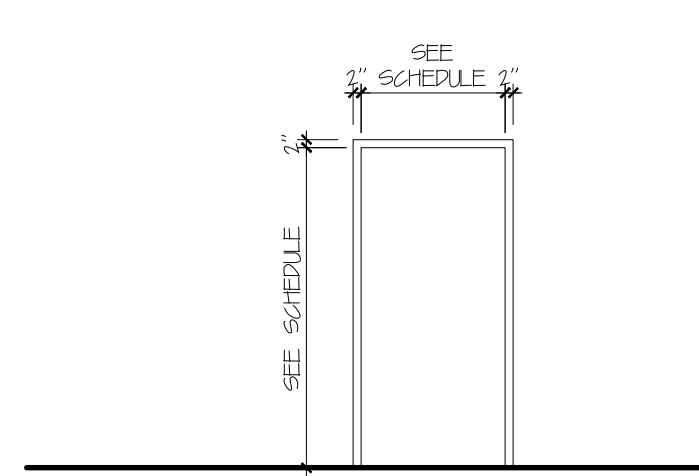


**EAST FOLLY - FOUNDATION PLAN**  
1/4"=1'-0"

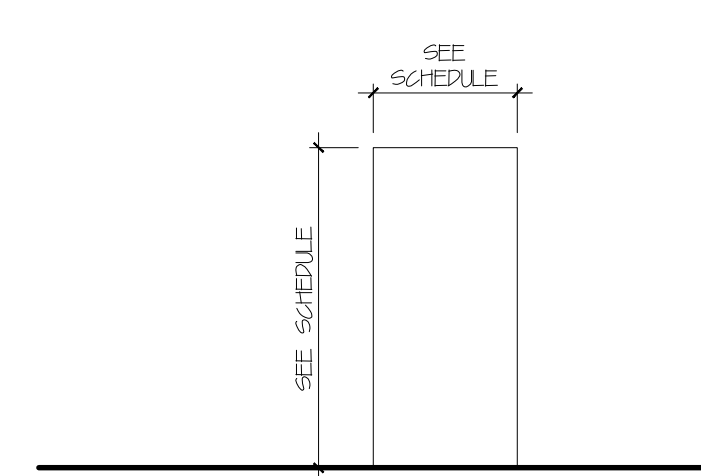


WINDOW NOTES  
 1. PROVIDE ALUMINUM BRICK MOLD AND SILL EXTENDER  
 2. PROVIDE OBSCURED GLASS TO BE SELECTED BY OWNER AND ARCHITECT

**3 WINDOW TYPES**  
 A2.0 1/4"=1'-0"



**2 FRAME TYPES**  
 A2.0 1/4"=1'-0"



**1 DOOR TYPES**  
 A2.0 1/4"=1'-0"

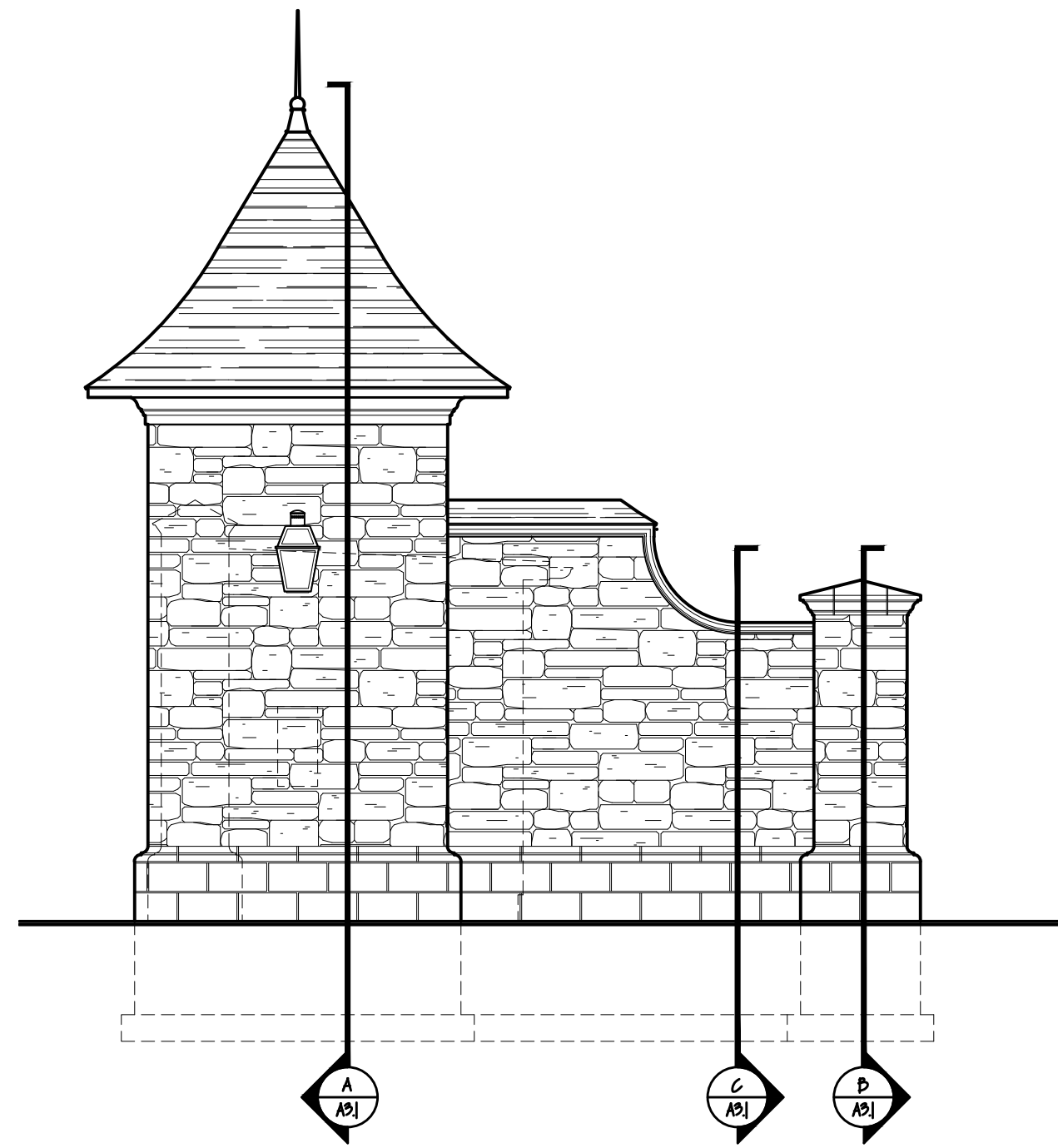
DOOR AND FRAME SCHEDULE									
ROOM NAME	DOOR #	DOOR SIZE	DOOR TYPE	DOOR MATL./FINISH	FRAME TYPE	FRAME MATL./FINISH	LABEL	HWDR SET	REMARKS
RESTROOM	101	3'0"0"	A	HM/PANT	I	HM/PANT	-	A	
PUMP ROOM	102	4'0"0"	A	HM/PANT	I	HM/PANT	-	A	

**DOOR NOTES**

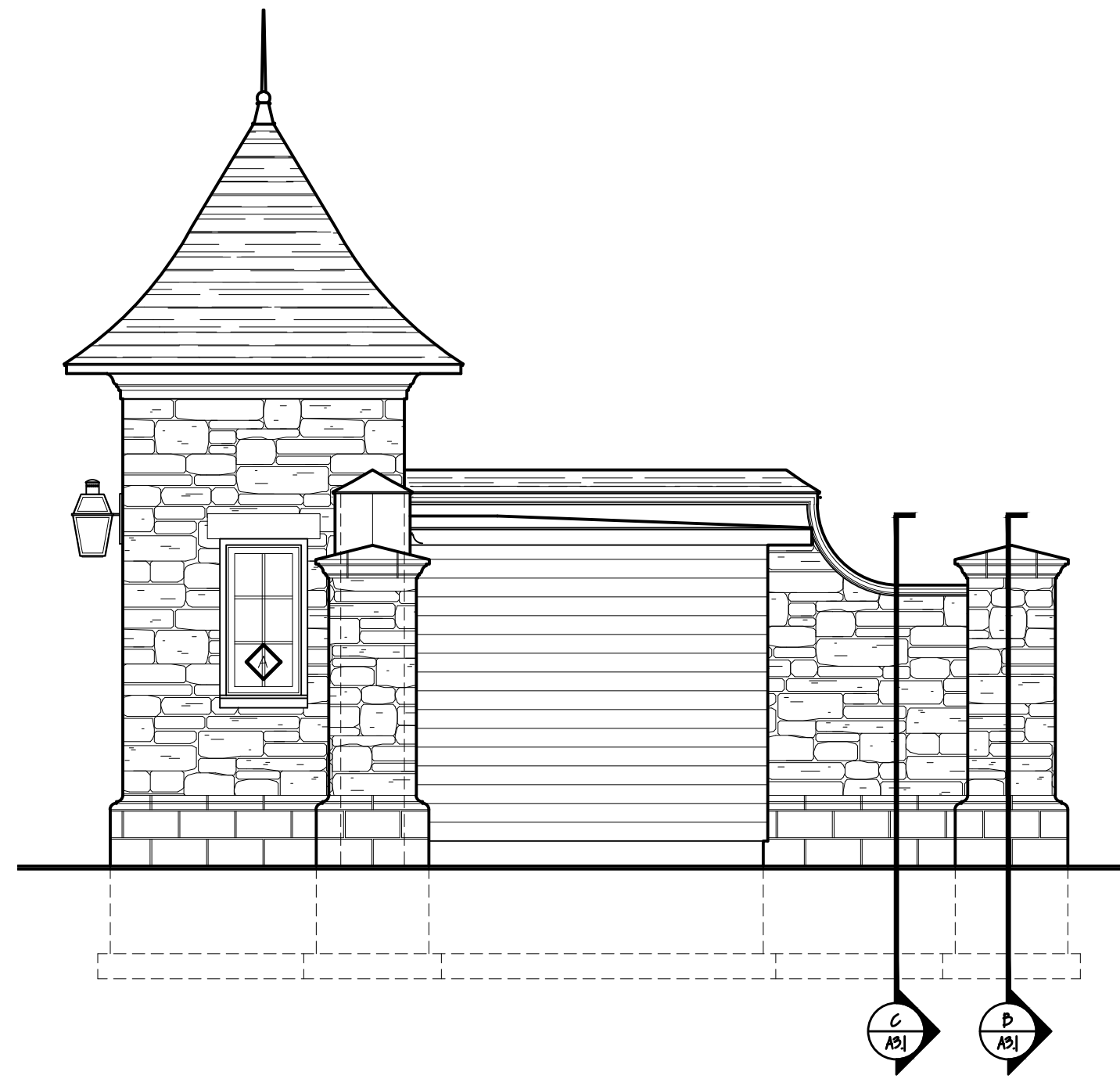
**HARDWARE NOTES**  
 - VERIFY ALL HARDWARE SELECTIONS (TYPES AND FUNCTIONS) WITH ARCHITECT, OWNER AND HARDWARE SUPPLIER BEFORE ORDERING.  
 - FINISH ON ALL DOOR HARDWARE TO BE SATIN STAINLESS, INCLUDING ALL HINGES, DOORKNOBLS, VIEWABLES, STOPS, ETC.  
 - ALL HARDWARE TO BE ADA COMPLIANT LEVER TYPE - VERIFY FINISH AND MODEL NUMBER WITH OWNER.

**HARDWARE SETS**

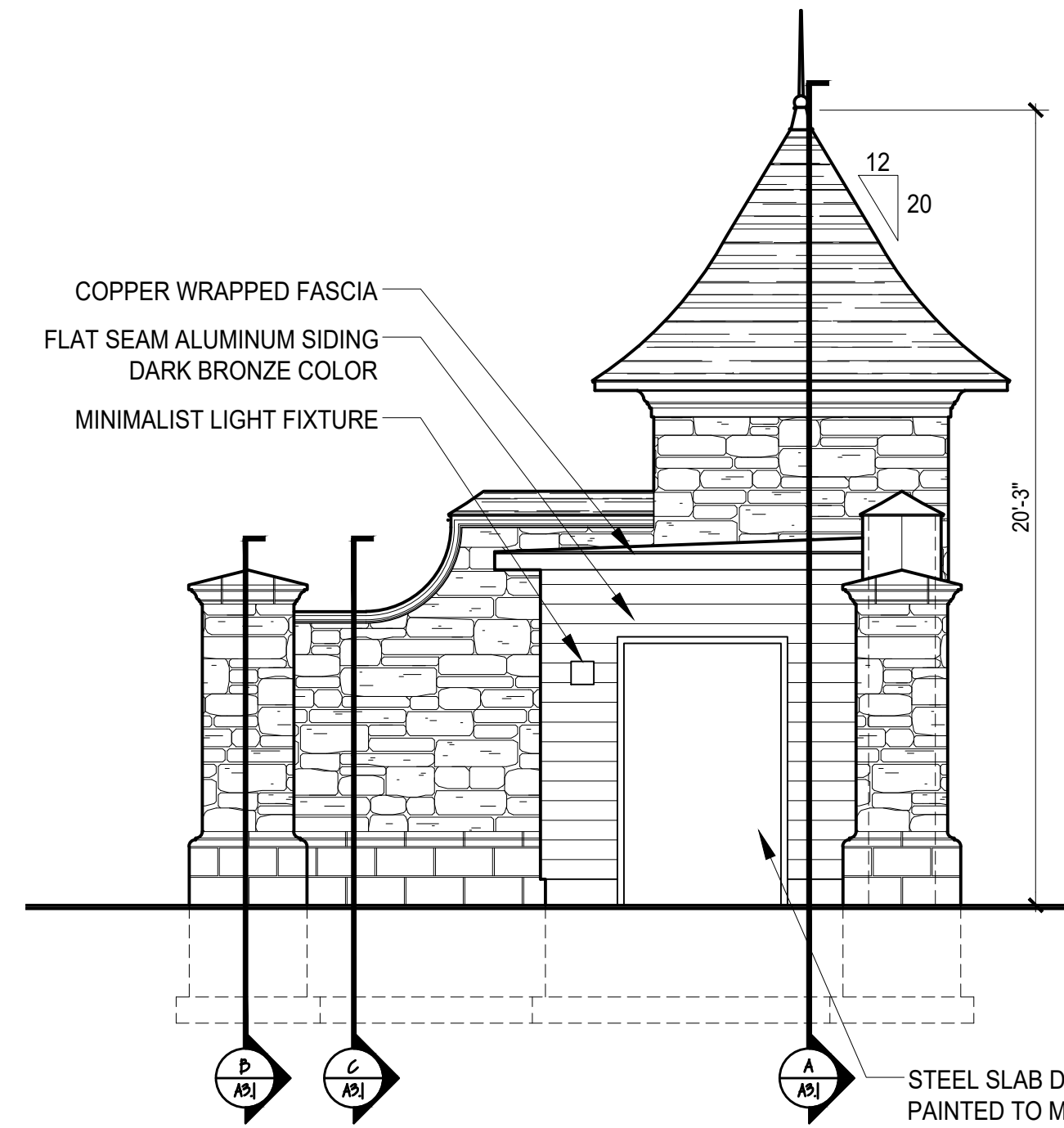
A LEVER HANDLE - STANDARD LATCHING SET WITH PRIVACY AND PANG FEATURE. DOOR HANDLE SET AND ACCESS SYSTEM TO BE PROVIDED BY HABITEC SECURITY AND TIE INTO EXISTING BEXLEY SYSTEM. CONTACT: KELLY McFARLAND - 614-798-3654 - KMcFARLAND@HABITECSECURITY.COM



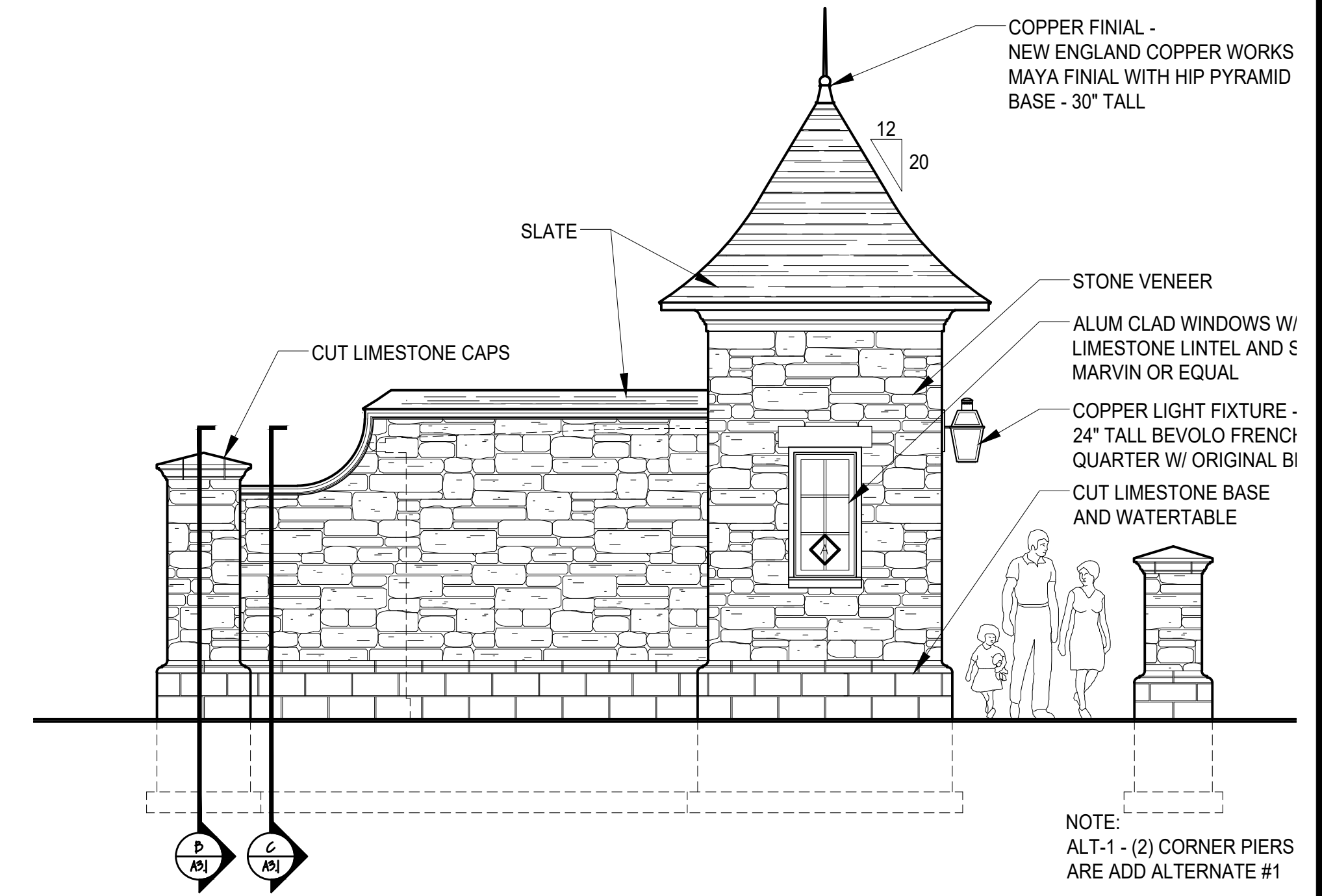
**H WEST FOLLY - EAST ELEVATION**  
 A2.0 1/4" = 1'-0"



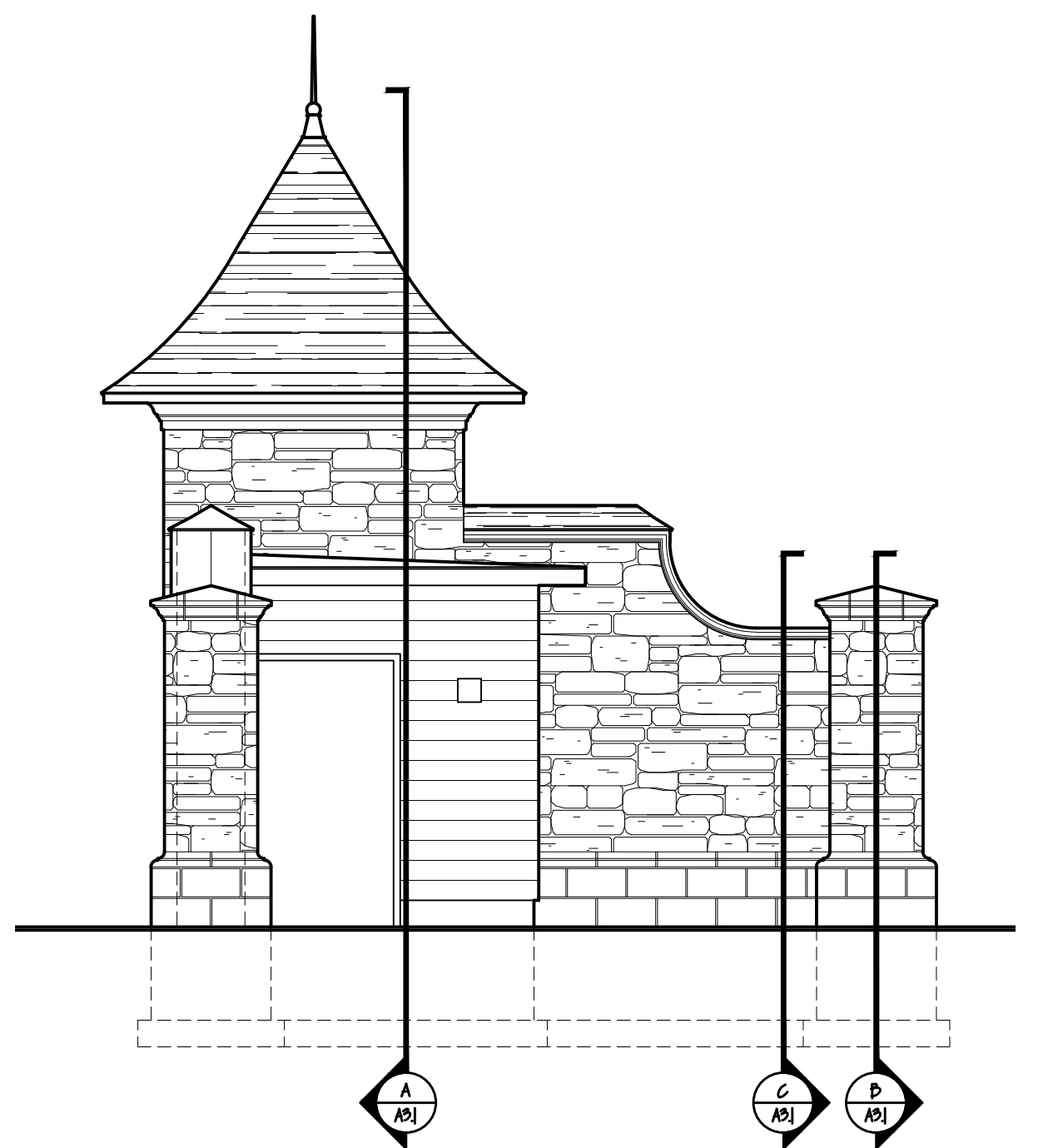
**G WEST FOLLY - NORTH ELEVATION**  
 A2.0 1/4" = 1'-0"



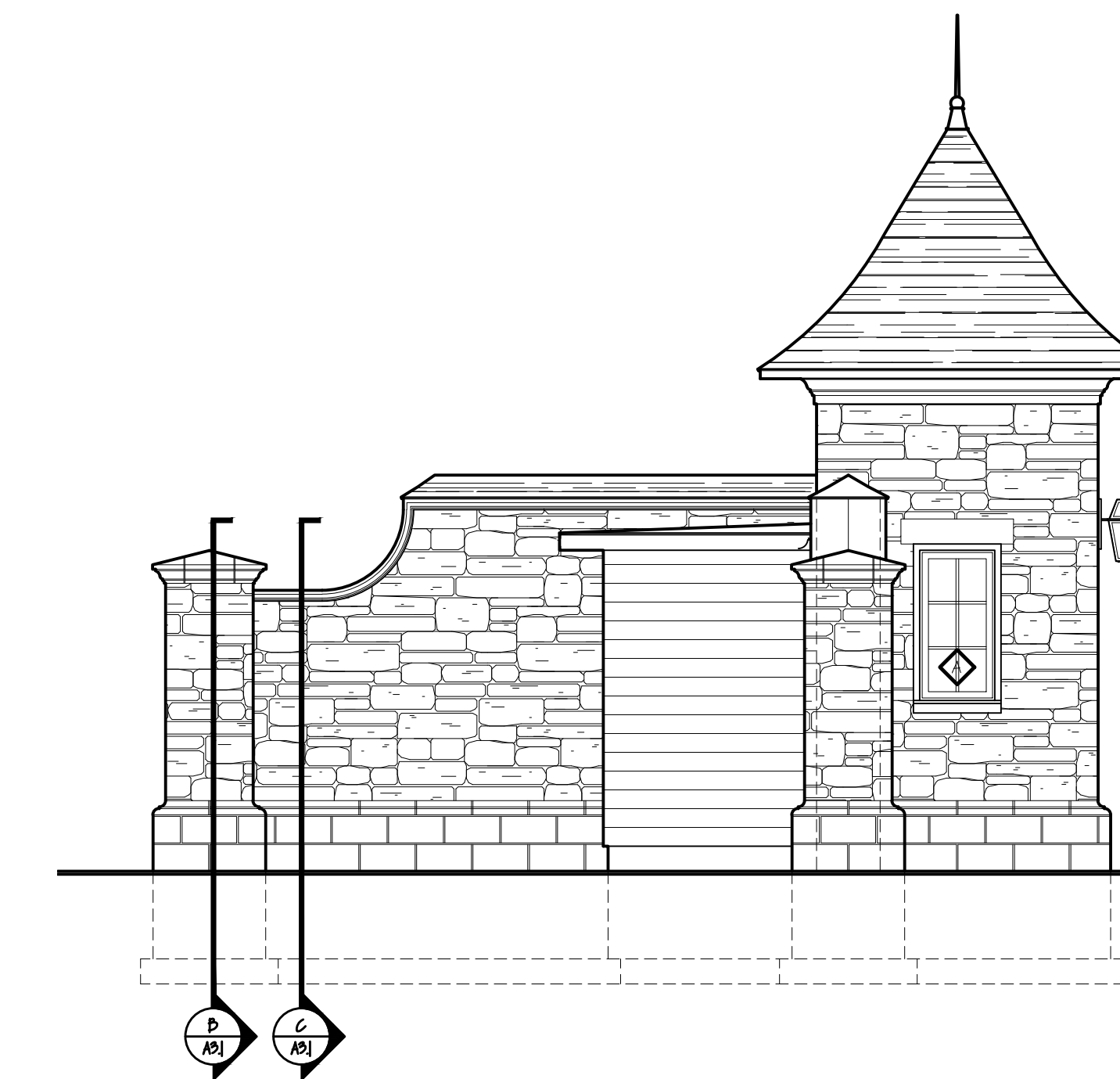
**F WEST FOLLY - WEST ELEVATION**  
 A2.0 1/4" = 1'-0"



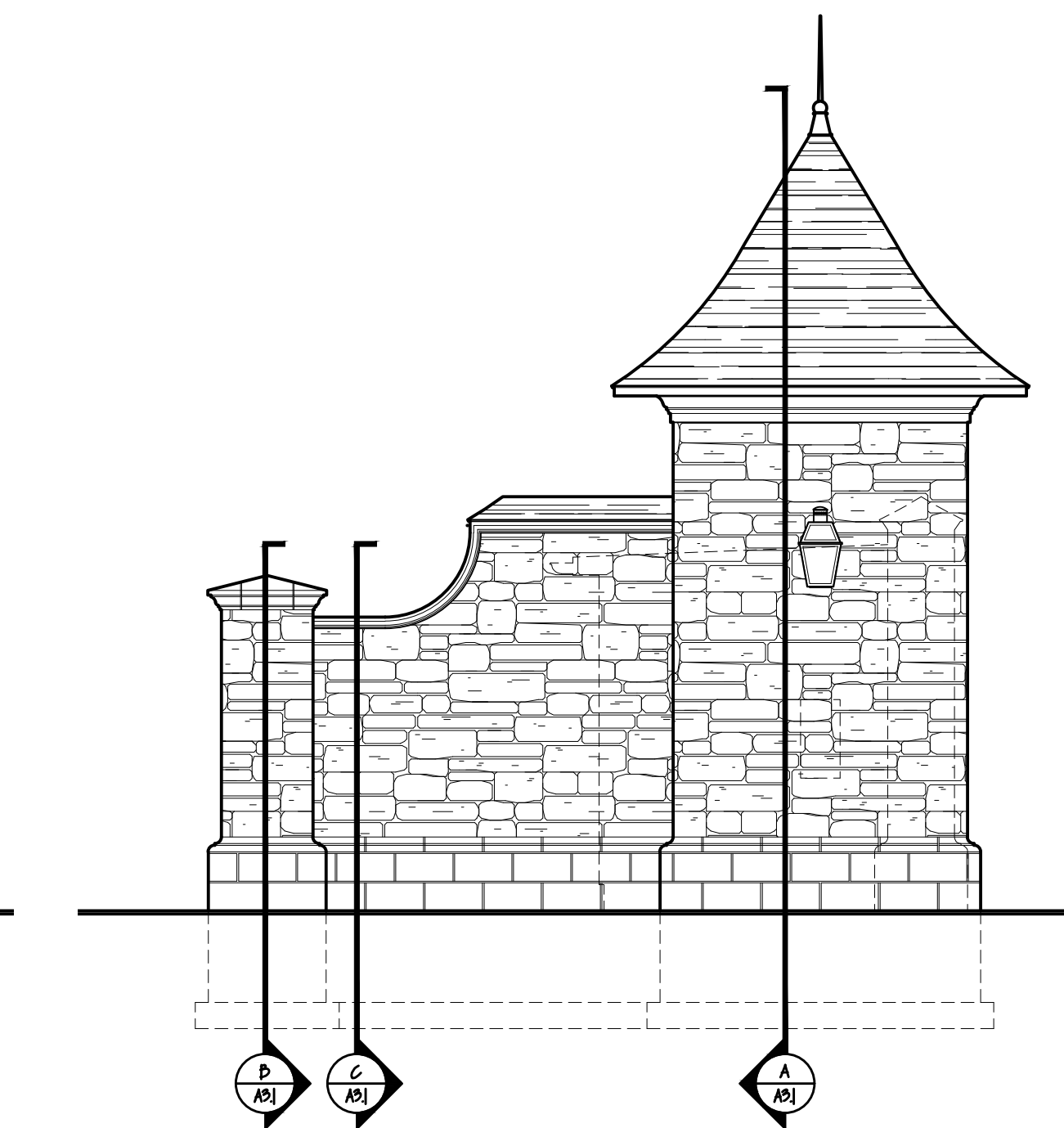
**E WEST FOLLY - SOUTH ELEVATION**  
 A2.0 1/4" = 1'-0"



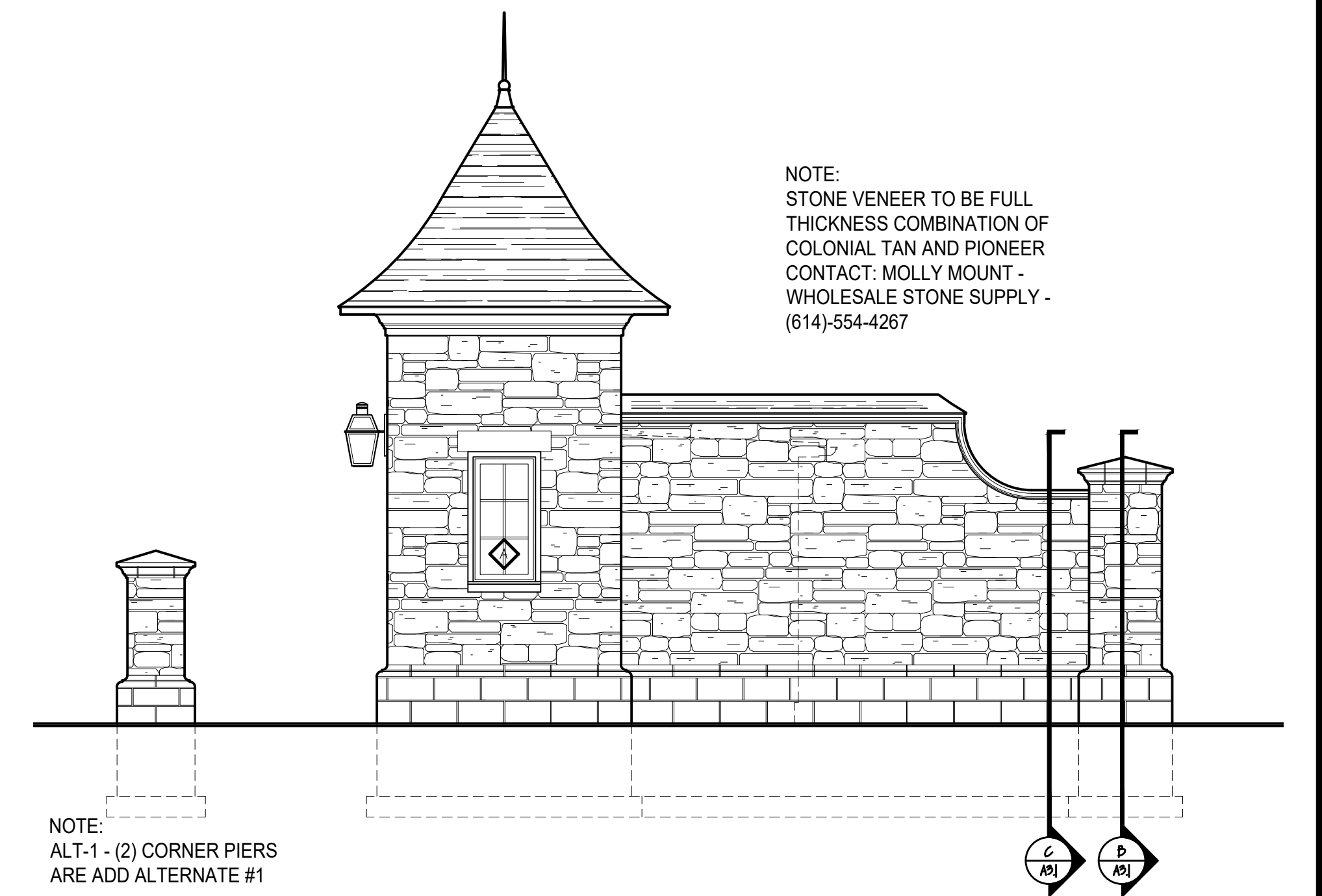
**D EAST FOLLY - EAST ELEVATION**  
 A2.0 1/4" = 1'-0"



**C EAST FOLLY - NORTH ELEVATION**  
 A2.0 1/4" = 1'-0"



**B EAST FOLLY - WEST ELEVATION**  
 A2.0 1/4" = 1'-0"



**A EAST FOLLY - SOUTH ELEVATION**  
 A2.0 1/4" = 1'-0"

BID SET

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NEW RESTROOM AND PUMP HOUSE  
 COMMONWEALTH PARK, BEXLEY, OHIO

Date: March 22, 2023 - BID SET

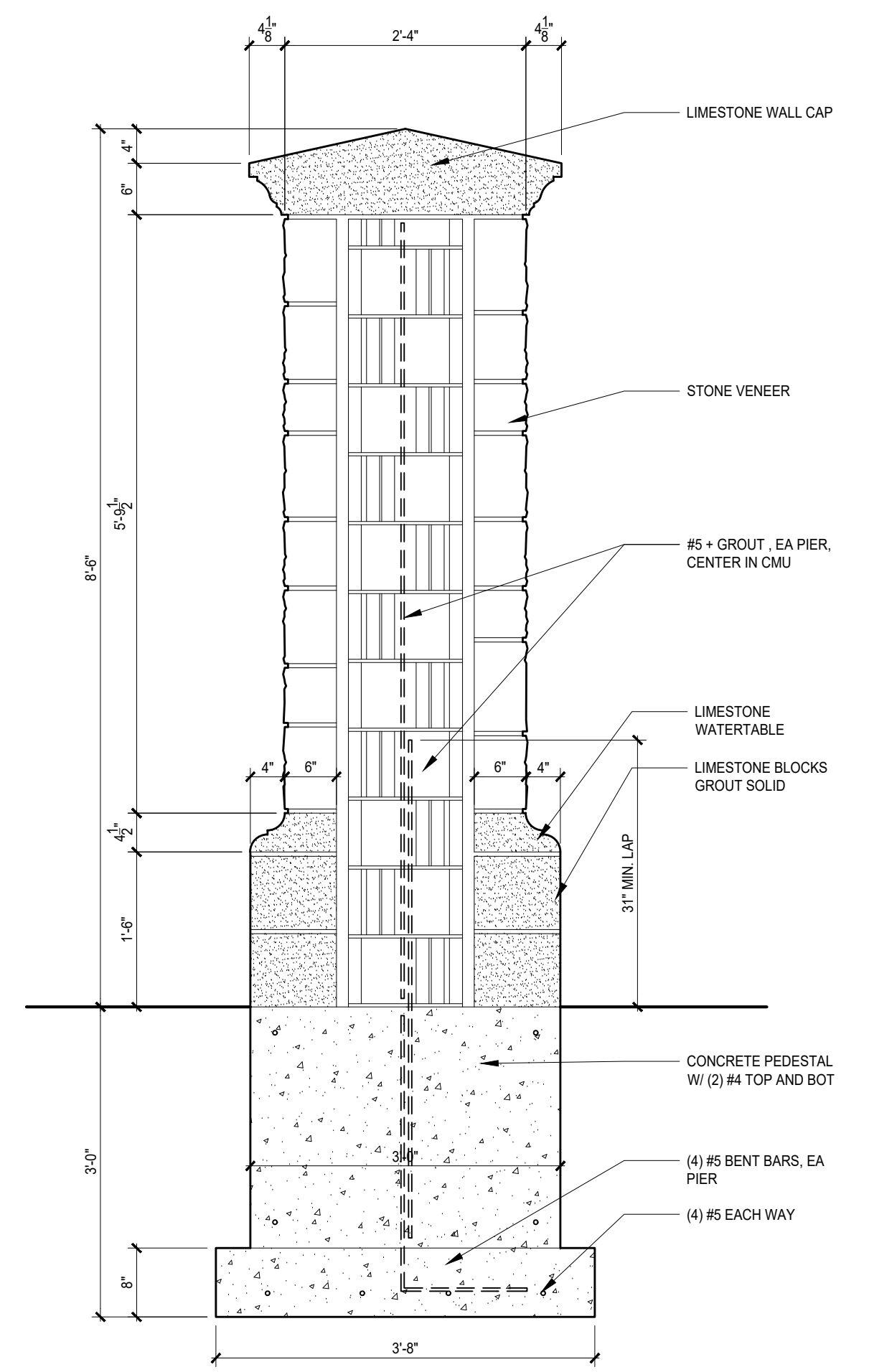
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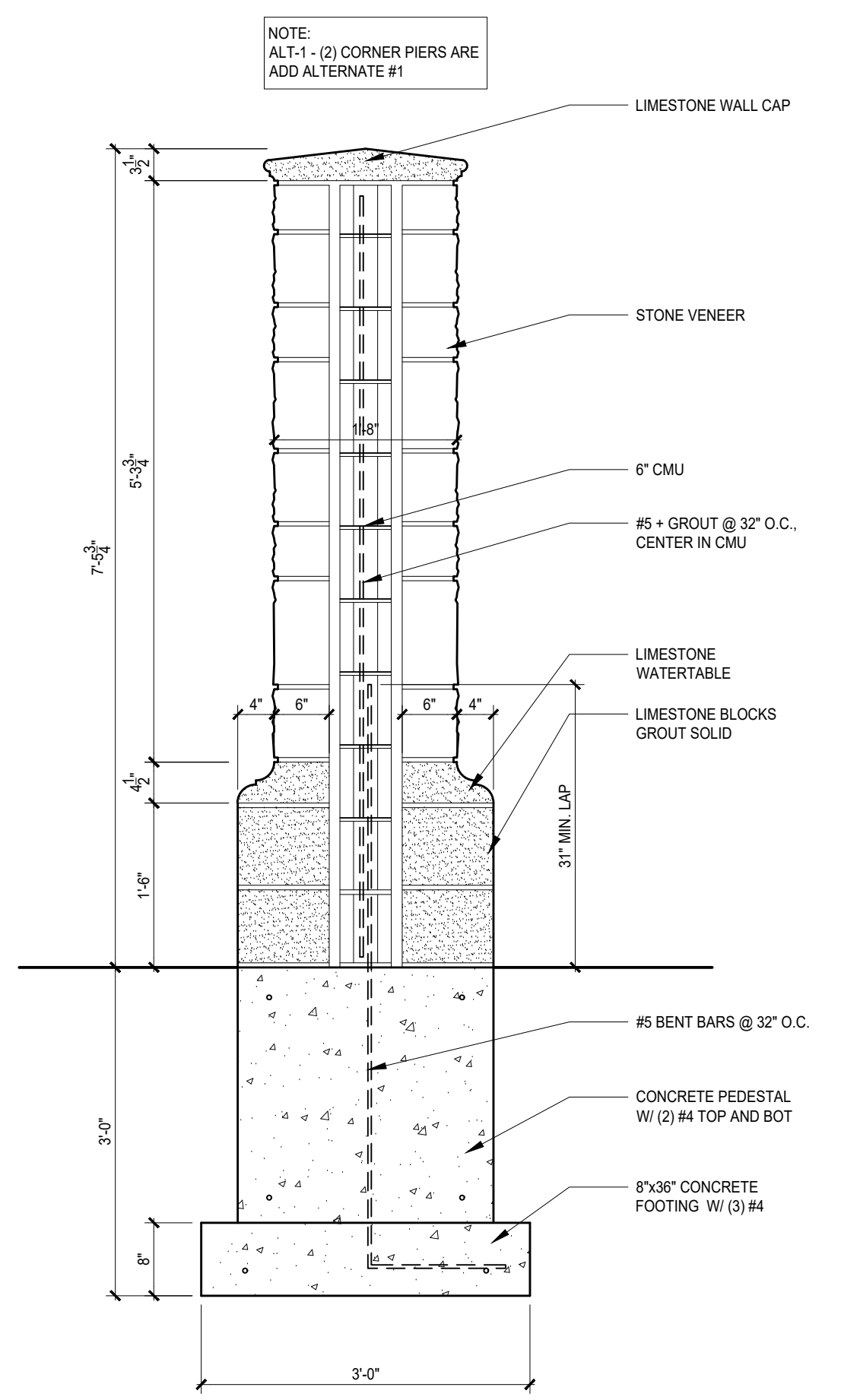
**A2.0**

**COMMONWEALTH FOLLIES**

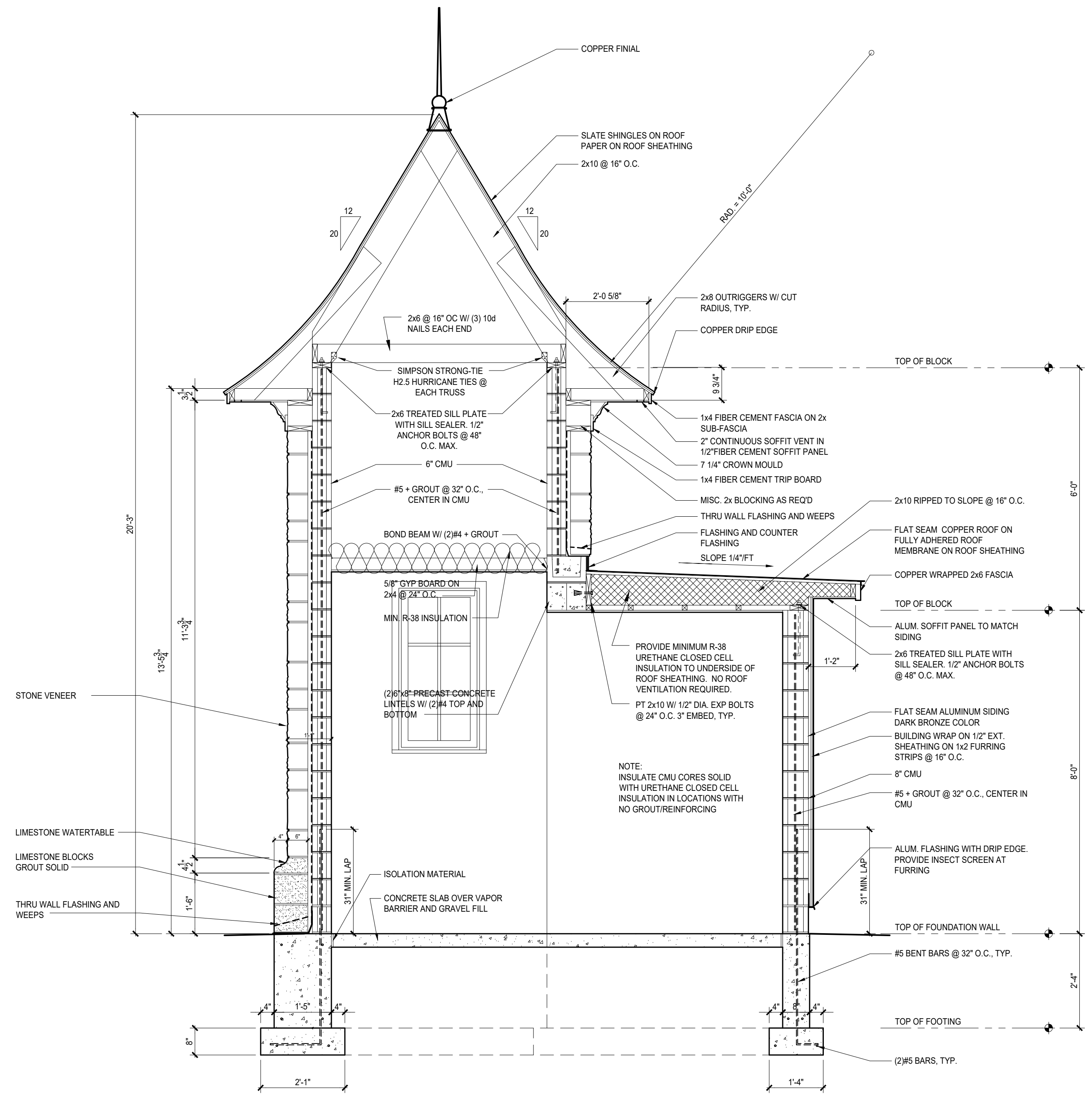
NEW RESTROOM AND PUMP HOUSE  
COMMONWEALTH PARK, BEXLEY, OHIO



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



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



**A BUILDING SECTION**  
1/2" = 1'-0"

Date: March 22, 2023 - BID SET

Scale: VARIES

Sheet

**A3.0**

## STRUCTURAL NOTES

### GOVERNING CODE

2017 OHIO BUILDING CODE (REFERENCES IBC 2015 & ASCE 7-10)

### DESIGN LOADS

1. ROOF LOAD:	
A. MINIMUM COMBINATION OF WIND LOAD, LIVE LOAD, RAIN LOAD, OR SNOW LOAD (P, OR P <sub>w</sub> )	20 PSF*
B. SHINGLES, MEMBRANE	20 PSF
C. ROOF SHEATHING AND FRAMING	6 PSF
D. CEILING, INSULATION	2 PSF
E. MISC.	2 PSF
TOTAL LOAD	50 PSF MIN

\*FLAT ROOF SNOW LOAD, P<sub>s</sub> = 14 PSF  
GROUND SNOW, P<sub>g</sub> = 20 PSF  
SNOW LOAD IMPORTANCE FACTOR, I<sub>s</sub> = 1.0  
SNOW EXPOSURE FACTOR, C<sub>e</sub> = 1.0  
SNOW LOAD THERMAL FACTOR, C<sub>t</sub> = 1.2  
MINIMUM SNOW LOAD, P<sub>m</sub> = 20 PSF

2. WIND LOAD (PER ASCE 7):	
A. BASIC DESIGN WIND SPEED, V = 115 MPH	
B. ALLOWABLE STRESS DESIGN WIND SPEED, V <sub>ASD</sub> = 90 MPH	
C. RISK CATEGORY = II	
D. WIND EXPOSURE = B	
3. SEISMIC LOAD	
A. SEISMIC RISK CATEGORY	= II
B. SEISMIC IMPORTANCE FACTOR, I <sub>s</sub>	= 1.0
C. SITE CLASS (ASSUMED)	= D
D. DESIGN SPECTRAL RESPONSE ACCELERATION FACTOR AT SHORT PERIODS, S <sub>DS</sub>	= 0.14
E. DESIGN SPECTRAL RESPONSE ACCELERATION FACTOR AT 1 SECOND PERIOD, S <sub>D1</sub>	= 0.095
F. SEISMIC DESIGN CATEGORY	= B

### CONSTRUCTION AND SAFETY

- CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
- ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.
- THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ARCHITECT/ENGINEER IS RESPONSIBLE FOR HIS/HER OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.

### FOUNDATIONS

- THE FOUNDATION DESIGN AND GENERAL FOUNDATION NOTES ARE BASED ON THE ASSUMPTION OF FAVORABLE SOIL CONDITIONS. ALL FOOTINGS SHALL BEAR ON LEVEL, (WITHIN 1 IN 12) UNDISTURBED SOIL. FOUNDATIONS HAVE BEEN DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 1500 PSF.

- FOUNDATION ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES AND MAY VARY TO SUIT SUB-SURFACE SOIL CONDITION.
- ALL AREAS WITHIN THE FOOTPRINT OF THE BUILDING, INCLUDING UTILITY TRENCHES, MUST BE FREE OF ANY WET AND/OR SOFT AREAS PRIOR TO PLACEMENT OF FILL MATERIAL OR SLAB.
- CONTRACTOR SHALL CONTACT UTILITY COMPANIES FOR LOCATING UNDERGROUND SERVICES AND IS RESPONSIBLE FOR THEIR PROTECTION AND SUPPORT.
- FILL BELOW INTERIOR SLAB AREAS SHALL BE ODOT 304 (GREATER THAN 6") OR #67 CRUSHED CRUSHED AGGREGATE (LESS THAN 6") WELL GRADED GRANULAR MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY. PEA GRAVEL IS NOT PERMITTED.
- FINISHED GRADE SHALL SLOPE AWAY FROM THE PERIMETER FOUNDATION

### CONCRETE

- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-10, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
- MATERIALS:
  - CONCRETE FOR INTERIOR AND EXTERIOR SLABS:
    - f<sub>c</sub> = 3500 PSI
    - MAXIMUM WATER / CEMENTITIOUS RATIO = 0.45
    - NORMAL WEIGHT AGGREGATE
    - 5% TO 7% ENTRAINED AIR
    - LIMIT POZZOLAN CONTENT PER ACI 301-10 TABLE 4.2.2.9.
  - CONCRETE FOR FOUNDATION WALLS:
    - f<sub>c</sub> = 3500 PSI
    - MAXIMUM WATER / CEMENTITIOUS RATIO = 0.45.
    - NORMAL WEIGHT AGGREGATE
    - 5% TO 7% ENTRAINED AIR
    - LIMIT POZZOLAN CONTENT PER ACI 301-10 TABLE 4.2.2.9.
  - CONCRETE FOR FOOTINGS:
    - f<sub>c</sub> = 3000 PSI.
    - NORMAL WEIGHT AGGREGATE.
  - REINFORCING STEEL: ASTM A615 60 KSI YIELD DEFORMED BARS.
  - ADMIXTURES: ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN REINFORCED CONCRETE OR CONCRETE CONTAINING METALS.
- IF CONCRETE ARRIVES AT THE SITE WITH A SLUMP BELOW THE SPECIFIED SLUMP AND IS UNSUITABLE FOR PLACING AT THAT SLUMP, THE SLUMP MAY BE ADJUSTED ONCE ONLY BY ADDING WATER UP TO THE AMOUNT ALLOWED IN THE ACCEPTED MIXTURE PROPORTIONS. ADDITION OF WATER SHALL BE IN ACCORDANCE WITH ASTM C94. DO NOT EXCEED THE SPECIFIED WATER-CEMENTITIOUS MATERIAL RATIO OR SLUMP IN THE APPROVED MIX DESIGN. DO NOT ADD WATER TO CONCRETE DELIVERED IN EQUIPMENT NOT ACCEPTABLE FOR MIXING.
- WHEN THE AIR TEMPERATURE IS LESS THAN 40° F, THE TEMPERATURE OF THE CONCRETE SHALL BE MAINTAINED BETWEEN 50° AND 70°F FOR 7 DAYS.
- DURING HOT WEATHER, WHEN NECESSARY, PROVIDE FOR PROTECTIVE MEASURES IN ADVANCE OF PLACEMENT.
- AT CORNERS AND INTERSECTIONS OF WALLS, PROVIDE BENT BARS OF EQUAL SIZE AND AT SAME SPACING AS TYPICAL REINFORCING AROUND CORNER AND/OR INTO ABUTTING WALL. BARS SHALL HAVE EMBEDMENT OF 30 DIAMETERS (18" MIN).

- ALL CAST-IN-PLACE CONCRETE WALLS SHALL BE PLACED CONTINUOUSLY WITH NO COLD JOINTS AND VIBRATED ADEQUATELY TO PREVENT AIR POCKETS.
- INTERIOR CONCRETE SLABS SHALL BE 5" THICK, WITH 6 MIL VAPOR BARRIER OVER 4" MINIMUM CRUSHED GRANULAR COMPACTED BASE. PLACE CONTRACTION JOINTS IN INTERIOR SLABS AND EXTERIOR FLAT WORK AT 10' O.C. MAXIMUM EACH WAY WITH A MAXIMUM ASPECT RATIO OF 1.5:1. SLOPE TO DRAINS.
- STEEL TROWEL FINISH FLOOR SLAB AND CURE USING "CURE AND SEAL" TYPE CURING COMPOUND MEETING FEDERAL SPECIFICATION TT-C-00800 VOC COMPLIANT, 30% MINIMUM SOLIDS CONTENT. FOR EXTERIOR FLAT WORK APPLICATIONS EXPOSED TO SUNLIGHT USE LIGHT BROOM FINISH AND ACRYLIC BASED CURING COMPOUND. PRIOR TO APPLICATION, CONTRACTOR SHALL VERIFY COMPATIBILITY OF CURING COMPOUND WITH FINAL FLOOR FINISHES.
- CONTRACTION JOINTS IN SLABS-ON-GRADE SHALL BE HAND TROWELED OR SAW CUT WITHIN 6 HOURS OF PLACING CONCRETE OR WHEN CONCRETE IS STRONG ENOUGH TO WITHSTAND CUTTING WITHOUT RAVELING AT THE EDGES.

### MASONRY

- MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES" (TMS 602-13), EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
- MATERIALS
  - CONCRETE MASONRY UNITS: ASTM C90 TYPE I.
    - NORMAL WEIGHT AGGREGATE PER ASTM C33.
  - MORTAR: ASTM C270
    - ALL MASONRY UNLESS NOTED OTHERWISE: TYPE S
    - ABOVE GRADE VENEER: TYPE N
  - PORTLAND CEMENT-LIME MORTAR:
    - PORTLAND CEMENT: TYPE I.
    - HYDRATED LIME: TYPE S.
  - MASONRY CEMENT MORTAR IS PERMITTED.
  - GROUT: ASTM C476. SLUMP 8" TO 11". MINIMUM COMPRESSIVE STRENGTH = 2000 PSI AT 28 DAYS.
  - REINFORCING STEEL: ASTM A615, ASTM A706, OR ASTM A996, 60 KSI YIELD.
  - HORIZONTAL JOINT REINFORCING FOR SINGLE WYTHE CONCRETE MASONRY: ASTM A951 9 GAGE LADDER TYPE. HOT DIPPED GALVANIZED PER ASTM A153 CLASS B. PLACE HORIZONTAL JOINT REINFORCING AT 18" CENTERS VERTICALLY FOR CONCRETE MASONRY. LAP HORIZONTAL JOINT REINFORCING 6" MINIMUM. HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS ACROSS MOVEMENT JOINTS.
  - HORIZONTAL JOINT REINFORCING FOR CONCRETE MASONRY AND BRICK VENEER CAVITY WALL: ASTM A951 9 GAGE LADDER TYPE PLACED IN CONCRETE MASONRY WITH PROJECTING EYES FOR 3/16" DIAMETER DOUBLE WIRE RECTANGULAR ADJUSTABLE PINTLE. HOT DIPPED GALVANIZED PER ASTM A153 CLASS B. PLACE HORIZONTAL JOINT REINFORCING AT 18" CENTERS VERTICALLY FOR CONCRETE MASONRY. LAP HORIZONTAL JOINT REINFORCING 6" MINIMUM. HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS ACROSS MOVEMENT JOINTS.
- MORTAR PROPORTIONS MUST BE ACCURATELY MEASURED PRIOR TO MIXING. ADD CEMENT TO MIX IN FULL BAG QUANTITIES. MEASURE SAND IN BOX WITH VOLUME OF ONE CUBIC FOOT AS OFTEN AS NECESSARY TO MAINTAIN CONSISTENT PROPORTIONS AND AT LEAST ONCE DAILY AND EVERY 4 HOURS OF MIXING.
- PROVIDE PREFABRICATED 'L' AND 'T' SHAPED HORIZONTAL JOINT REINFORCING AT WALL INTERSECTIONS.
- KEEP AIR SPACE BEHIND VENEER FREE OF MORTAR DROPPINGS.
- RUNNING BOND PATTERN SHALL BE USED FOR ALL MASONRY WORK UNLESS OTHERWISE NOTED.

- LINTELS IN CONCRETE MASONRY SHALL BE 8" DEEP PRECAST CONCRETE LINTELS REINFORCED WITH BARS TOP AND BOTTOM OF LINTEL.
- FILL CELLS WITH GROUT, 3 COURSES MINIMUM, BELOW LINTEL BEARING.
- UNLESS NOTED OTHERWISE ON PLANS, LINTELS SHALL HAVE 8" MINIMUM END BEARING.
- ALL REINFORCING STEEL SHALL BE SUPPORTED AND FASTENED TO APPROVED POSITIONERS LOCATED AT 192 BAR DIAMETERS MAXIMUM SPACING AND WITH A MINIMUM OF TWO POSITIONERS PER GROUT POUR (ONE NEAR THE BOTTOM AND ONE NEAR THE TOP) TO PREVENT DISPLACEMENT DURING THE PLACEMENT OF GROUT.
- GROUT ALL CELLS BELOW GRADE SOLID.

### STONE MASONRY

- MATERIALS:
  - STONE SHALL BE WASHED AND FREE OF DIRT. STONE SHALL HAVE NO SHALE ADHERED TO THE SURFACE.
  - SETTING MORTAR: SHALL BE ASTM C-270 TYPE N COMPOSED OF ONE PART PORTLAND CEMENT, ONE PART MASON'S LIME AND SIX PARTS SAND MIXED WITH POTABLE WATER OR ONE PART MASONRY CEMENT AND TWO AND THREE QUARTERS PARTS SAND MIXED WITH POTABLE WATER.
  - MASONRY VENEER (STONE) SHALL HAVE 18-GAUGE CORRUGATED, GALVANIZED STEEL WALL TIES SPACED AT 16" ON CENTER VERTICALLY AND HORIZONTALLY WITH A MINIMUM 1" AIR SPACE BETWEEN VENEER AND CONCRETE MASONRY WALL. PLACE ADDITIONAL WALL TIES AT 16" ON CENTER AROUND ALL OPENINGS, WITHIN 12" OF THE OPENING. ATTACH EACH WALL TIE WITH GALVANIZED MASONRY SCREW WITHIN 1/2" OF THE ANCHORS 90 DEGREE BEND. PROVIDE FLASHING LOCATED BENEATH THE FIRST COURSE OF MASONRY ABOVE FINISHED GRADE LEVEL, ABOVE ALL LINTELS, AND BELOW ALL SILLS. PLACE WEEP HOLES DIRECTLY ABOVE FLASHING SPACED AT 32" CENTERS.
- EVERY STONE SHALL BE SET IN FULL BEDS OF MORTAR WITH ALL VERTICAL JOINTS SLUSHED FULL. ALL BED AND JOINT WIDTHS SHALL BE 3/8" MINIMUM.
- HEAVY STONES OR PROJECTING COURSES SHALL NOT BE SET UNTIL MORTAR IN COURSES BELOW HAS HARDENED SUFFICIENTLY TO AVOID SQUEEZING.
- JOINTS CAN BE TOOLED WHEN INITIAL SET HAS OCCURRED, OR RAKED OUT 1" AND POINTED LATER.
- DURING COLD WEATHER, INTERNATIONAL MASONRY INDUSTRY ALL WEATHER COUNCIL RECOMMENDATION FOR SETTING FROM 40 DEGREES TO 20 DEGREES FAHRENHEIT SHALL BE FOLLOWED, EXCEPT THAT NO ADDITIVES SHALL BE USED IN THE SETTING MORTAR. BELOW 20 DEGREES FAHRENHEIT, ALL WORK SHALL BE DONE IN HEATED ENCLOSURES.
- CONTINUOUS FLASHING SHALL BE PLACED AT BASE OF ALL WALLS AND OUTLET ABOVE GRADE, AND ABOVE AND BELOW ALL WINDOWS. PROVIDE WEEPHOLES AT VERTICAL JOINTS AT 24" ON CENTER.
- LINTELS SHALL BE STRUCTURAL LIMESTONE WITH 4" MINIMUM BEARING.

### WOOD - ROUGH CARPENTRY

- WOOD FRAMING MATERIALS:
  - DIMENSION LUMBER FRAMING - INTERIOR APPLICATIONS:
    - 2x4 AND 2x6: STUD GRADE OR BETTER SPRUCE PINE FIR KILN DRIED.
    - 2x8 AND DEEPER: NO. 1 GRADE OR BETTER SOUTHERN PINE KILN DRIED.
    - 2x4 AND DEEPER (PRESERVATIVE TREATED LUMBER): NO. 2 GRADE OR BETTER PRESERVATIVE TREATED SOUTHERN PINE, AWPA USE CATEGORY UC2.
  - NAILS: ASTM F1667. FOR EXTERIOR APPLICATIONS OR PRESERVATIVE TREATED, HOT DIP GALVANIZE PER ASTM F2329 OR ASTM A 153. WHERE PENNYWEIGHTS ARE INDICATED, CONTRACTOR SHALL CONFIRM NAIL SIZES INDICATED ON DRAWINGS

AND NOTES MEET THE FOLLOWING DIAMETER AND LENGTH REQUIREMENTS. PNEUMATIC GUN NAILS SHALL MEET THESE DIAMETER AND LENGTH REGARDLESS OF THE NAIL SIZE INDICATED BY THE MANUFACTURER:

- 8d = 0.131" DIA, 2 1/2" LG.
- 10d = 0.148" DIA, 3" LG.
- 16d = 0.162" DIA, 3 1/2" LG.

- UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE MADE PER TABLE 2304.10.1 "FASTENING SCHEDULE", IN REFERENCED BUILDING CODE.
- ALL CONNECTION HARDWARE SPECIFIED ON THE STRUCTURAL DRAWINGS SHALL BE MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY, SHALL BE FASTENED AS SPECIFIED IN THE SIMPSON PRODUCT AND INSTRUCTION MANUAL, AND ARE BASED ON THEIR CATALOG PUBLISHED CAPACITIES. ALL CONNECTORS SHALL BE INSTALLED USING THE MAXIMUM NAILING SPECIFIED AND PROPER NAIL SIZE UNLESS NOTED OTHERWISE.
  - EXTERIOR APPLICATIONS OR PRESERVATIVE TREATED: ZMAX (G185), OR HOT DIPPED GALVANIZED, OR STAINLESS STEEL TYPE 304 OR TYPE 316 WHERE INDICATED. G60 AND G90 COATED PRODUCTS ARE NOT PERMITTED. ONLY USE GALVANIZED FASTENERS WITH ZMAX AND HOT DIP GALVANIZED CONNECTORS. ONLY USE STAINLESS STEEL FASTENERS WITH STAINLESS STEEL CONNECTORS.
- FOR ROOF FRAMING, INSTALL ONE SIMPSON H2.5T HURRICANE TIE AT EACH MEMBER AT EACH BEARING LOCATION IN ADDITION TO THE TYPICAL NAILING REQUIREMENT IN THE "FASTENING SCHEDULE".
- NOTCHES IN ROOF RAFTERS SHALL NOT BE LOCATED IN THE MIDDLE ONE-THIRD OF THE SPAN. DEPTH OF NOTCHES IN THE TOP OR BOTTOM OF THE MEMBER ARE NOT TO EXCEED ONE-SIXTH OF THE MEMBER DEPTH AND LENGTH SHALL NOT EXCEED ONE-THIRD OF MEMBER DEPTH. HOLES SHALL NOT BE BORED LARGER THAN ONE-THIRD OF THE MEMBER DEPTH, OR WITHIN TWO INCHES OF THE TOP OR BOTTOM OF THE MEMBER, OR WITHIN TWO FEET OF BEARING. NO HOLES OR NOTCHES ARE ALLOWED IN BEAMS UNLESS APPROVED BY ENGINEER.

### WOOD - SHEATHING

- MATERIALS:
  - ROOF SHEATHING (TYPICAL): 3/4" (NOMINAL) APA SPAN RATING 4824 ROOF SHEATHING, EXPOSURE 1 CLASSIFICATION.
- NAIL SHEATHING TO WOOD FRAMING WITH 0.131" DIA, 3" LG NAILS AT 6 INCHES ON CENTER AT PANEL EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. STAPLES NOT PERMITTED FOR FASTENING APA RATED SHEATHING.
- SHEATHING AT ROOF FRAMING: INSTALL PANEL CLIP THAT CREATES AN 1/8" SPACE BETWEEN SHEATHING PANELS AT MIDSPAN OF EACH TRUSS/RAFTER SPACE ALONG UNSUPPORTED SHEATHING EDGES.

### EXPANSION ANCHORS

- ANCHORAGE TO CONCRETE: HILTI "KWIK BOLT T22 CARBON STEEL" (EVALUATION REPORT: ICC-ES ESR-4286). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC193 AND ACI 305.2 FOR USE IN CRACKED CONCRETE MAY BE CONSIDERED.
- ANCHORAGE TO GROUT FILLED CONCRETE MASONRY: HILTI "KWIK BOLT T22 CARBON STEEL" (EVALUATION REPORT: ICC-ES ESR-4561). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC01 (INCLUDING SEISMIC TESTS) FOR EXPANSION ANCHORS IN MASONRY ELEMENTS MAY BE CONSIDERED.

BID SET

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COMMONWEALTH FOLLIES

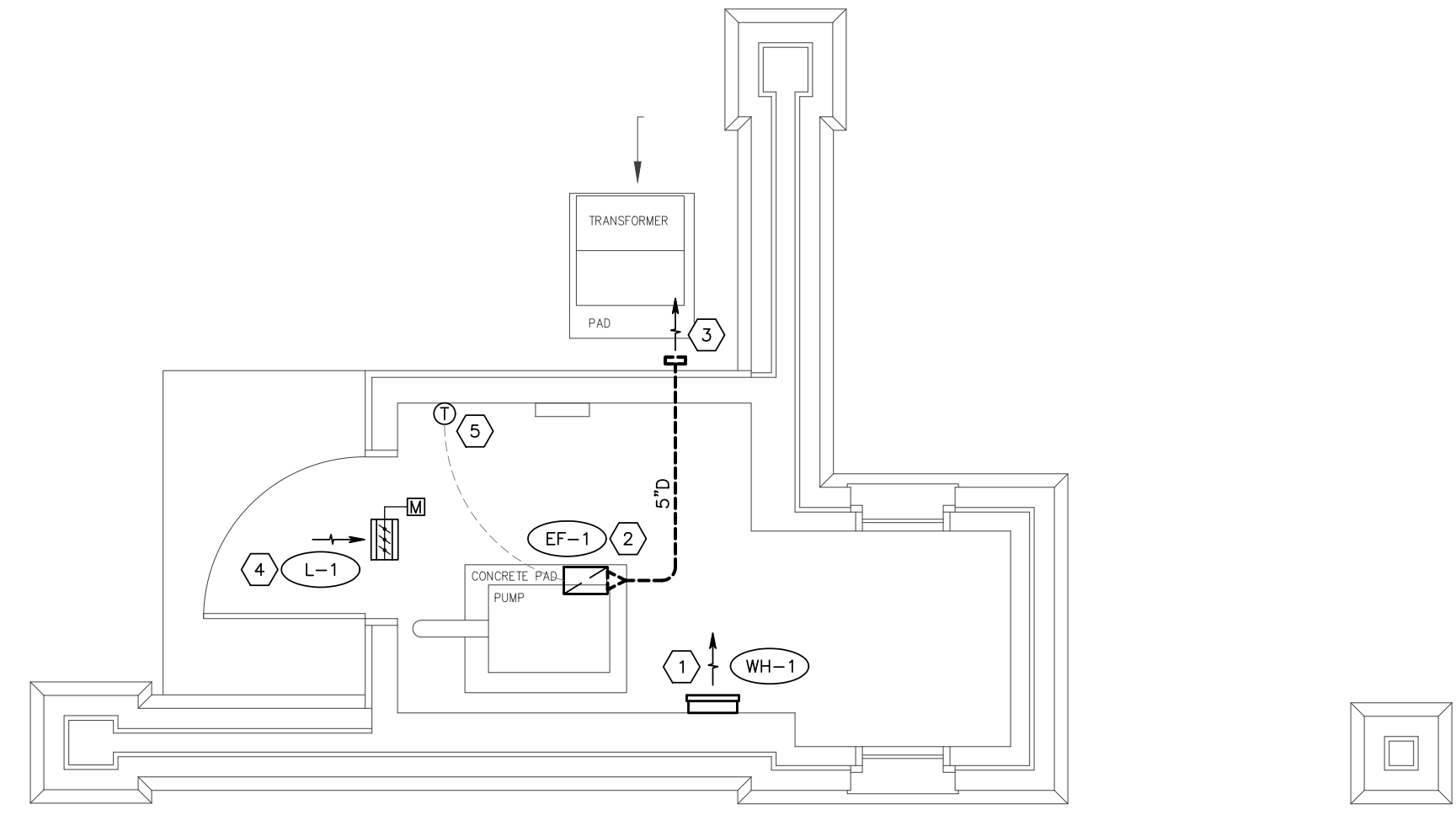
NEW RESTROOM AND PUMP HOUSE  
COMMONWEALTH PARK, BEXLEY, OHIO

Date: March 22, 2023 - BID SET

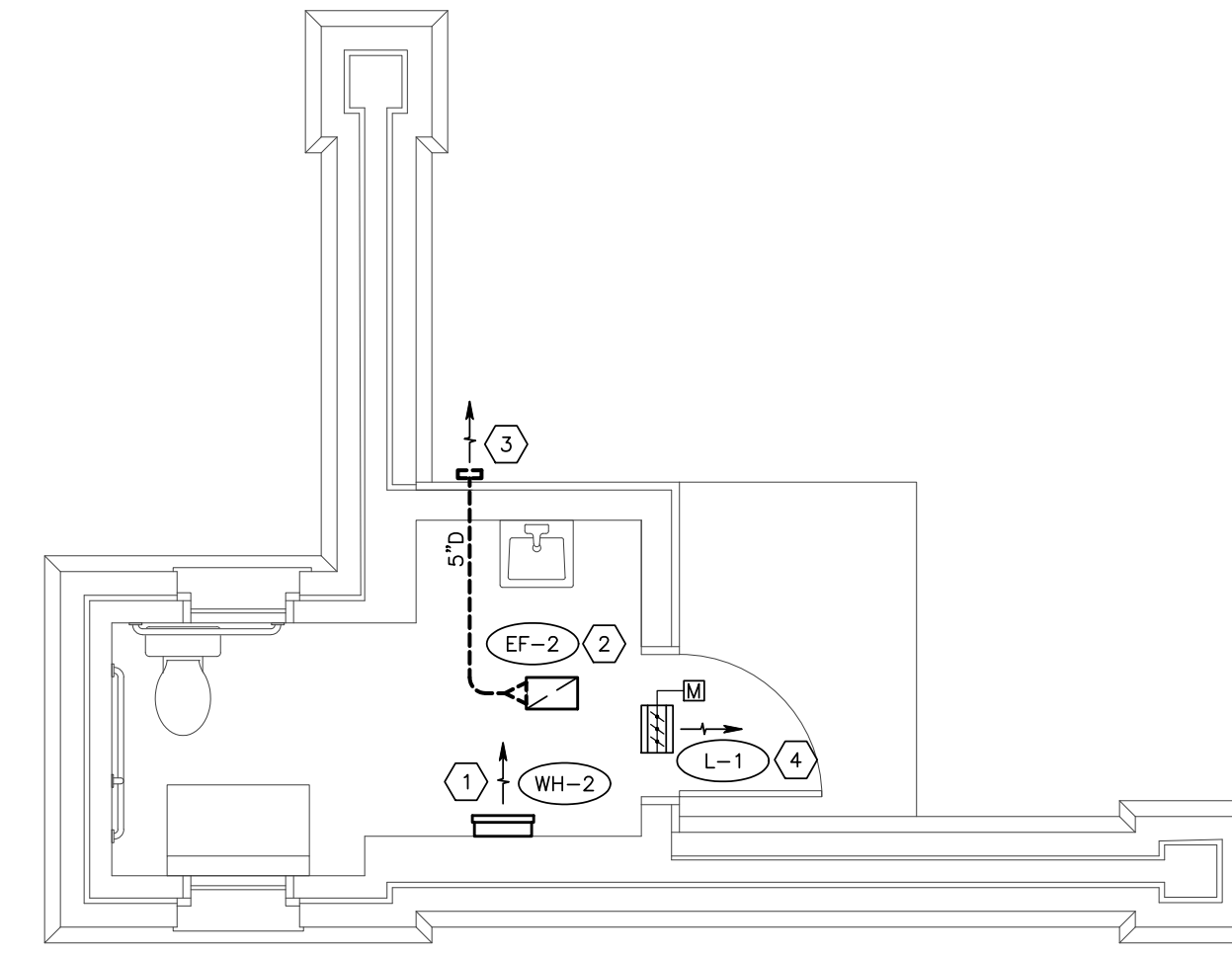
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**HVAC PLAN**  
SCALE: 1/4"=1'-0"



**GENERAL NOTES**

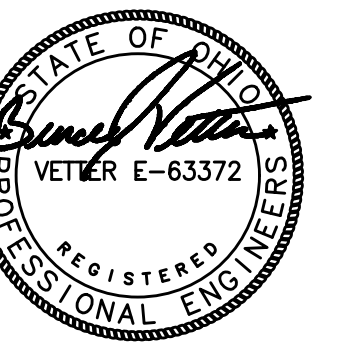
- A. HC SHALL VISIT SITE AND FAMILIARIZE HIM/HERSELF WITH EXISTING CONDITIONS. VERIFYING EXISTING EQUIPMENT LOCATIONS AND DUCT ROUTING BEFORE BEGINNING ANY NEW WORK OR ORDERING MATERIALS.
- B. ALL WORK SHALL BE INSTALLED ACCORDING TO THE LATEST LOCAL, STATE AND NATIONAL CODES. ALL DUCTWORK SHALL BE INSTALLED ACCORDING TO THE LATEST ASHRAE RECOMMENDATIONS AND SMACNA INSTALLATION MANUALS.
- C. HVAC PLANS IN GENERAL ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCH., PLUMBING, ELECTRICAL, FIRE PROTECTION AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THIS CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- D. THROUGHOUT THE COURSE OF THE WORK, MINOR CHANGES AND ADJUSTMENTS TO THE PLANS AND SPECIFICATIONS MAY BE REQUESTED BY THE OWNER. THE HC SHALL MAKE SUCH ADJUSTMENTS WITHOUT ADDITIONAL COST TO THE OWNER, WHERE SUCH ADJUSTMENTS ARE NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE SYSTEMS, AND WITHIN THE INTENT OF THE CONSTRUCTION DOCUMENTS.
- E. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO FORM A GUIDE FOR A COMPLETE INSTALLATION, EVERYTHING NECESSARY FOR THE COMPLETION AND SUCCESSFUL OPERATION OF THE WORK, WHETHER OR NOT HEREIN DEFINITELY SPECIFIED OF INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED AS WELL AND AS FAITHFULLY AS IF SO SPECIFIED OR INDICATED WITHOUT ADDITIONAL COST TO THE OWNER. THE HC SHALL VERIFY ALL DIMENSIONS AND WEIGHTS PRIOR TO INSTALLATION.
- F. NOTWITHSTANDING ANY OTHER PROVISIONS OF THE CONTRACT DOCUMENTS, THE HC BEARS ULTIMATE RESPONSIBILITY FOR COMPLIANCE OF THE INSTALLATION WITH THE REQUIREMENTS OF THE OWNER AND OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- G. IF ANY ERRORS, DISCREPANCIES OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THE HC SHALL NOTIFY THE ARCHITECT IN WRITING OF SUCH ERROR OR OMISSION. IN THE EVENT OF THE HC FAILING TO GIVE SUCH NOTICE BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK, HE/SHE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS, DISCREPANCIES OR OMISSIONS AND THE COST OF RECTIFYING SAME.
- H. FURNISH "AS-BUILT" DRAWINGS, AIR BALANCE REPORT AS WELL AS OPERATING & MAINTENANCE MANUALS AFTER PROJECT COMPLETION TO ARCHITECT.
- I. ALL DUCT SIZES ARE FINISHED SHEETMETAL DIMENSIONS.
- J. DUCT LAYOUT IS ONLY SCHEMATIC. EXACT LOCATION OF DUCTS TO BE COORDINATED ON JOB WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS.
- K. CAULK SPACE BETWEEN SLEEVES, WALLS AND DUCTS WHERE DUCTS PASS THROUGH WALLS. CAULKING TO BE AIRTIGHT.
- L. OFFSET DUCTS INTO JOIST SPACE FOR CLEARANCE WHERE SPACE ABOVE CEILING IS NOT SUFFICIENT FOR DUCTS TO CROSS OTHER DUCTS OR WORK OF OTHER CONTRACTORS.
- M. PROVIDE INSULATED SUB-BASES ON ALL THERMOSTATS LOCATED ON EXTERIOR WALLS.
- N. BULLHEAD FITTINGS IN SUPPLY AIR DUCTWORK ARE "PROHIBITED".
- O. HC SHALL INSTALL ALL OUTDOOR EQUIPMENT TO WITHSTAND SUSTAINED WIND LOADING FORCES AS REQUIRED BY LOCAL CODES.
- P. INSTALL BALANCING DAMPERS AS SHOWN AND AS REQUIRED FOR PROPER BALANCING OF AIR HANDLING SYSTEMS.
- Q. ALL SCHEDULED EXTERIOR WALL LOUVERS ARE TO BE TURNED OVER TO THE GC FOR INSTALLATION.
- R. OPENINGS THROUGH ROOF BY GC. FURNISH AND SETTING OF PREFABRICATED CURBS AND FANS BY HC.
- S. NOTIFY GC OF SIZE AND LOCATION OF ALL RECESSES AND OPENINGS REQUIRED FOR NEW HVAC WORK.
- T. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS, GRILLES AND OTHER CEILING DEVICES.
- U. ALL LINTELS FOR HVAC OPENINGS SHALL BE BY THE GC, COORDINATE SIZES AND LOCATIONS WITH THE GC.

**HVAC LEGEND**

Ⓜ	THERMOSTAT ELECTRIC - MOUNTING HEIGHT 48"
Ⓣ	NEW EQUIPMENT REFERENCE SYMBOL
②	NOTE SYMBOL
51-22"x22" 1,200	CEILING MOUNTED AIR DEVICE, R1- AIR DEVICE DESIGNATION. REFER TO SCHEDULE. 22"x22" NECK SIZE, 1,200 REQUIRED CFM. DUCT SIZE SAME AS NECK SIZE UNLESS INDICATED OTHERWISE.
—	NEW WORK
—	AIR TURNING VANES
—	MOTOR OPERATED DAMPER (OPPOSED)
—	MOTOR OPERATED DAMPER (PARALLEL)
—	SUPPLY AND OR OUTSIDE AIR DUCT DROP
—	RETURN, EXHAUST AND OR RELIEF AIR DROP
—	SUPPLY AND OR OUTSIDE AIR RISE
—	RETURN, EXHAUST AND OR RELIEF AIR RISE
22"x12"	FLAT OVAL DUCT SIZE (22" MAJOR x 12" MINOR)
12"Ø	ROUND DUCT SIZE (12 INCH DIAMETER)
—	SINGLE LINE DUCT TRANSITION

**PLAN NOTES**

- 1. INSTALL WALL HEATER AT LOCATION INDICATED. CONTRACTOR TO COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. SEE HVAC DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 2. INSTALL CEILING MOUNTED EXHAUST FAN/LIGHT COMBO AT LOCATION INDICATED. CONTRACTOR TO COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. SEE HVAC DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 3. ROUTE EXHAUST DUCTWORK FROM FAN TO EXTERIOR WALL CAP. DUCTWORK SIZE AS INDICATED. CONTRACTOR TO COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. SEE HVAC DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 4. INSTALL MOTOR ACTUATED LOUVER HIGH ON WALL ABOVE DOOR AT LOCATION INDICATED. CONTRACTOR TO COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. SEE HVAC DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 5. INSTALL THERMOSTAT FOR ASSOCIATED EXHAUST FAN AT LOCATION INDICATED. CONTRACTOR TO COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.



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**COMMONWEALTH FOLLIES**  
NEW RESTROOM AND PUMP HOUSE  
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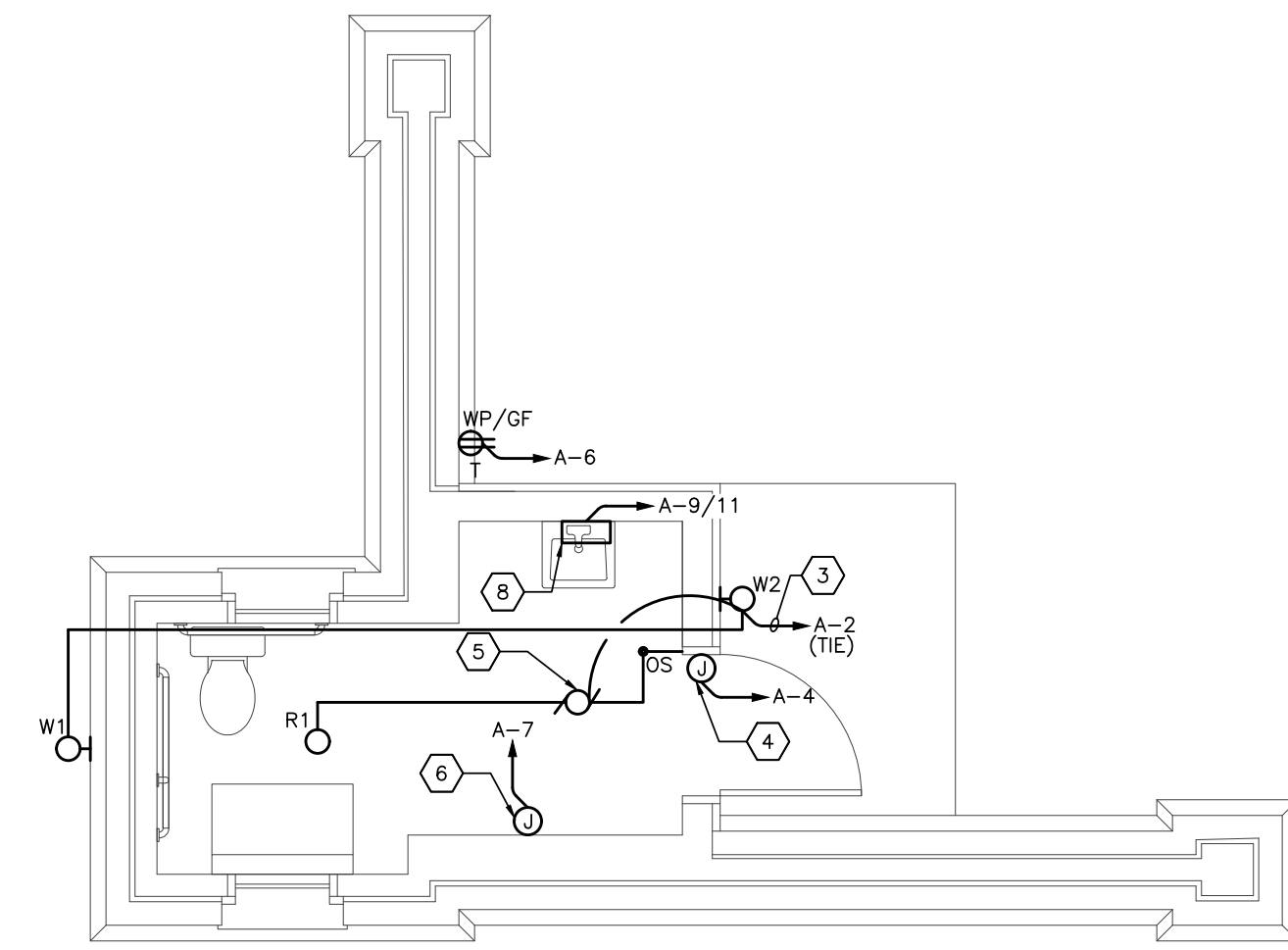
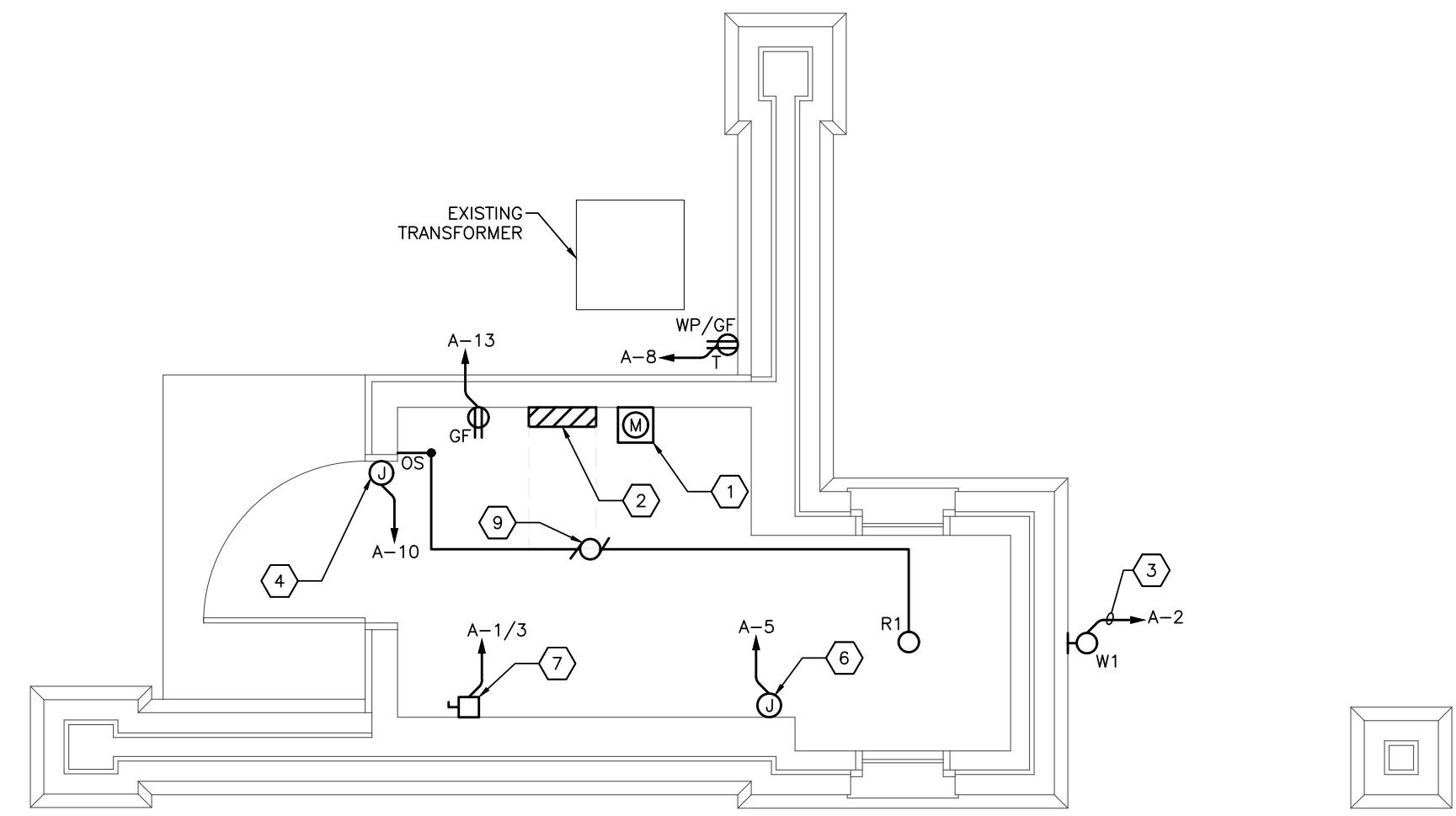
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**ELECTRICAL PLAN**  
SCALE: 1/4"=1'-0"

FIXTURE DESIGNATION	VOLTAGE	MANUFACTURER AND CATALOG NUMBER	FIXTURE DESCRIPTION	LAMPS				MOUNTING OPTIONS		REFER TO NOTE(S)	
				QUANTITY	FLUORESCENT	INCANDESCENT	H.L.D.	WATTS / JUMP	G.E. CATALOG NUMBER		R
R1	120	LITHONIA #LDN6 35/15 MVOLT GZ10 HSG FINAL SELECTION BY ARCHITECT	6" RECESSED DOWNLIGHT WITH 0-10V DIMMING DRIVER AND MATTE WHITE FINISH. 1500 LUMENS. 3500K.				1	20	LED	R	ALL
W1	120	KICHLER GROVE MILL 2 LIGHT WALL LIGHT SKU# 9439FB FINAL SELECTION BY ARCHITECT	2 LIGHT COPPER WALL SCNCE. WET RATED. USE 2 CAND BASE LED LAMPS EQUIVALENT TO 60W INCANDESCENT				1	20	LED	WM	ALL
W2	120	KICHLER 7.25 LED WALL LIGHT SKU# 49550AZLED FINAL SELECTION BY ARCHITECT	LED WALL SCNCE. WET RATED.				1	15	LED	WM	ALL

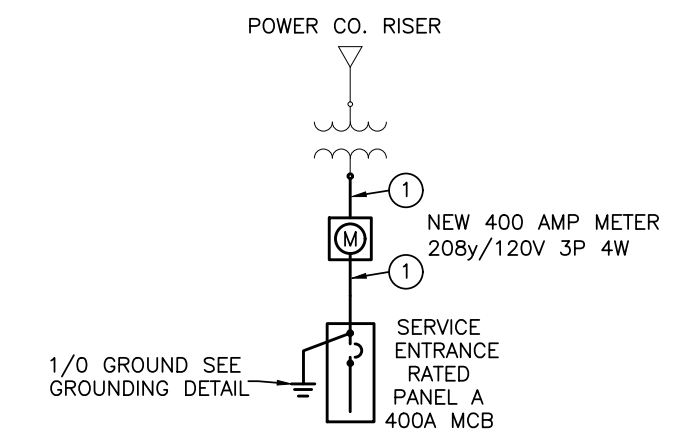
**NOTES:**  
1. SUBMIT CUT SHEETS ON ALL FIXTURES.  
2. ALL FIXTURES SHOWN ARE FOR BASIS OF DESIGN. ALL FIXTURES TO BE SELECTED BY ARCHITECT AND APPROVED BY OWNER.

**FEEDER KEY (X)**

FEEDER (ALUMINUM)					
DESIG.	# OF SETS	# OF CONDUCTORS	WIRE SIZE	GROUND SIZE (CU)	CONDUIT SIZE
1	1	4	600	-	5"

**FEEDER KEY (X)**

FEEDER (COPPER)					
DESIG.	# OF SETS	# OF CONDUCTORS	WIRE SIZE	GROUND SIZE	CONDUIT SIZE
1	2	4	250	-	2-1/2"



**ONE-LINE RISER**  
SCALE: NO SCALE

**NEW PANEL: A**

MAINS: 400A VOLTAGE: 208Y/120V., 3ø, 4W.  
400A MCB MOUNTING: SURFACE

REMARKS	KVA	BKR.	CIRCUIT NO. AND PHASE	BKR.	KVA	REMARKS
PUMP	5.82-A	80/2	1 A 2	20/1	0.60-L	LIGHTS
WALL HEATER	5.82-A	3	B 4	20/1	0.20-A	DOOR CONTROL
WALL HEATER	1.50-H	20/1	5 C 6	20/1	0.20-R	OUTDOOR REC
WATER HEATER	1.50-H	20/1	7 A 8	20/1	0.20-R	OUTDOOR REC
WATER HEATER	2.00-H	25/2	9 B 10	20/1	0.20-A	DOOR CONTROL
REC	2.00-H	11	C 12	20/1	-	SPARE
SPACE	0.20-R	20/1	13 A 14	20/1	-	SPARE
SPACE	-	-	15 B 16	20/1	-	SPARE
SPACE	-	-	17 C 18	-	-	SPACE
SPACE	-	-	19 A 20	-	-	SPACE
SPACE	-	-	21 B 22	-	-	SPACE
SPACE	-	-	23 C 24	-	-	SPACE
SPACE	-	-	25 A 26	-	-	SPACE
SPACE	-	-	27 B 28	-	-	SPACE
SPACE	-	-	29 C 30	-	-	SPACE

LEGEND: L-LIGHTING, R-RECEPTACLES, M-MOTORS, H-HVAC REHEAT, A-APPLIANCE, MLD-MAIN LUGS ONLY, MCB-MAIN BREAKER, GF-GROUND FAULT, LC-LOCKING CLIP.

CONNECTED LOADS	DEMAND LOADS:	
LIGHTING: 1.39 KW	@ 100%	= 1.39 KW
RECEPTS: 18.87 KW	@ 100% TO 10 KW + 50% REMAIN	= 14.44 KW
MOTOR: 3.59 KW	@ 80%	= 2.87 KW
APPLIANCE: 15.1 KW	@ 80%	= 12.08 KW
CONTROL: 0.01 KW	@ 80%	= 0.01 KW
SUBTOTAL: 38.96 KW		SUBTOTAL: = 30.79 KW
	DEMAND TOTAL: 30.79 KW / (208V x √3)	= 85.46 AMPS

PROVIDE LOCKING CLIP. PROVIDE RED LABEL "FIRE ALARM CIRCUIT" ON CIRCUIT BREAKER PER NFPA 70 PARAGRAPH 760.41(B).  
INSTALL AN ARC FLASH WARNING LABEL ON THE PANEL TRIM.  
\* RECONNECT REMAINING CIRCUITS FROM DEMO'D PANEL "1C".

**GENERAL POWER NOTES**

- EVERYTHING SHOWN ON THIS DRAWING AND/OR IDENTIFIED IN THE DIVISION 26, 27, AND 28 SPECIFICATIONS IS FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. IF ANY DEVICE, EQUIPMENT, FEEDERS, ETC., IS FURNISHED AND/OR INSTALLED BY ANYONE OTHER THAN THE ELECTRICAL CONTRACTOR, IT WILL BE SPECIFICALLY NOTED.
- ELECTRICAL CONTRACTOR SHALL REVIEW OTHER TRADES DRAWINGS, AND COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS WITH THE ELECTRICAL CONTRACTOR'S INSTALLATIONS. FAILURE TO COORDINATE WILL RESULT IN THE ELECTRICAL CONTRACTOR REMEDYING HIS CONFLICT(S) AT HIS EXPENSE.
- FOR VOLTAGE DROP ON 120V CIRCUITS, THE MAXIMUM LENGTHS ARE AS FOLLOWS: #12-65 FEET, #10-108 FEET, AND #8-162 FEET. FOR 277V CIRCUITS, MAXIMUM LENGTHS SHALL BE #12-150 FEET, #10-247 FEET, AND #8-375 FEET. THESE DISTANCES MUST BE FOLLOWED TO MAINTAIN 3% VOLTAGE DROP.
- ALL BACKBOXES LOCATED IN RATED WALLS MUST BE ENCASED IN FIRE PUTTY SEALANT. ALL CONDUITS THAT PASS THRU RATED WALLS MUST BE FIRE SEALED ON BOTH SIDES OF THE WALL. COORDINATE WITH THE ARCHITECT'S DRAWINGS FOR LOCATIONS OF THE RATED WALLS.
- LOCATION OF DEVICES ARE SCHEMATIC. REFER TO THE ARCHITECT'S INTERIOR ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL DEVICES. LOCATING ON THE NEAREST STUD IS NOT ACCEPTABLE. COORDINATE WITH THE GC TO INSTALL ADDITIONAL BRACING/SUPPORTS, ETC. SO THAT THE ARCHITECT'S DIMENSIONS ARE MAINTAINED.
- PROVIDE A NEW TYPED ELECTRICAL PANEL DIRECTORY FOR ALL BRANCH CIRCUIT CHANGES TO NEW AND EXISTING ELECTRICAL PANELS IN AREA OF WORK. INDICATE ANY SPARE CIRCUIT BREAKERS AS A RESULT OF THE DEMOLITION WORK IN THE EXISTING PANELS.
- CUTTING AND PATCHING TO BE PERFORMED BY GENERAL CONTRACTOR.

**LINE TYPE LEGEND**

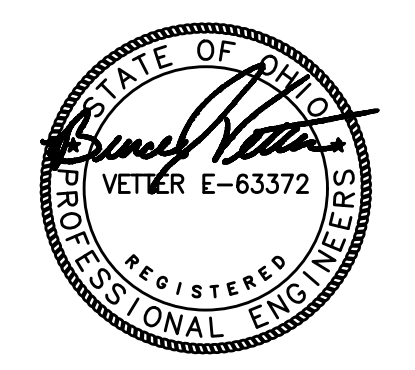
- LIGHT CONTINUOUS LINEWEIGHT IS EXISTING TO REMAIN.
- - - - - HEAVY DASHED LINEWEIGHT IS DEMOLISHED WORK.
- HEAVY CONTINUOUS LINEWEIGHT IS NEW WORK.

**ELECTRICAL LEGEND**

- ALL HEIGHTS INDICATED ARE TO CENTERLINE OF ITEM UNLESS INDICATED OTHERWISE ON DRAWINGS.
- MH MOUNTING HEIGHT TO CENTERLINE OF ITEM UNLESS INDICATED.  
TYP TYPICAL  
WP WEATHERPROOF  
123 ROOM NUMBER
- PLAN NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH NOTE IS SHOWN.  
EF-EQUIPMENT REFERENCE SYMBOL
- ELECTRICAL CONNECTION REQUIRED.  
EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; CAPITAL LETTER DENOTES PANEL; NUMBER(S) DENOTES CIRCUIT(S).
- WIRE & CONDUIT IN WALL OR ABOVE CEILING.  
WIRE & CONDUIT IN OR BELOW FLOOR SLAB OR BELOW GRADE.
- WALL MOUNTED DUAL-TECHNOLOGY PASSIVE INFRARED/ULTRASONIC OCCUPANCY SENSOR WITH MANUAL-ON/AUTO-OFF FUNCTION - HUBBELL #LIGHTHAWKZ SERIES. EQUALS BY SENSOR SWITCH, DOUGLAS OR GREENGATE. COORDINATE WITH LIGHTING MANUFACTURER FOR COMPATIBILITY (46" MH).
- LIGHTING FIXTURE; CAPITAL LETTER DENOTES FIXTURE TYPE.
- JUNCTION BOX.
- 20A-125V DUPLEX/SINGLE RECEPT., NEMA 5-20R (18"MH). HUBBELL HBL8300/HBL8310-1/R, UNO.  
20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT FEED THROUGH CIRCUIT INTERRUPTER (16" MH).  
EXTRA DUTY, WEATHER RESISTANT, TAMPER-PROOF 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (16" MH). INCLUDE VERTICAL MOUNT WEATHERPROOF IN-USE COVER. SEE SPECIFICATIONS.
- MOTORIZED EQUIPMENT CONNECTION.  
CIRCUIT BREAKER PANEL (FLUSH MOUNTED) 6'-0" TO TOP.  
CIRCUIT BREAKER LOADCENTER (SURFACE MOUNTED).

**PLAN NOTES**

- 400A 208Y/120V ELECTRIC SERVICE, EXISTING TRANSFORMER TO REMAIN. TEMPORARY METER TO BE RELOCATED TO NEW LOCATION AS SHOWN IN PLANS. (LOCATED INSIDE WITH LOCAL UTILITY AND AHJ APPROVAL). EXISTING CONDUIT MAY BE REUSED. COORDINATE REQUIREMENTS WITH LOCAL UTILITY COMPANY. SEE ONE LINE DIAGRAM AND PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
- NEW 400A(400A MCB) 208Y/120V SERVICE ENTRANCE RATED PANEL. SEE ONE LINE DIAGRAM AND PANEL SCHEDULE FOR ADDITIONAL INFORMATION. REUSE EXISTING CONDUIT.
- LIGHTS TO BE CONTROLLED VIA PHOTOCELL ORIENTED TOWARDS THE NORTH, EITHER STAND ALONE OR INTEGRATED.
- REMOTE DOOR LOCK AND WIRING BY OTHERS. PROVIDE ROUGH-IN WITH 3/4" CONDUIT STUBBED UP TO ACCESSIBLE SPACE. COORDINATE FINAL REQUIREMENTS WITH OWNER SELECTED DOOR SECURITY VENDOR.
- CIRCUIT CEILING FAN/LIGHT COMBO TO LIGHTING CIRCUIT. FAN/LIGHT TO TURN ON/OFF WITH SWITCH IN THIS ROOM.
- WALL HEATER. RUN 2#12 AND 1#12 GROUND IN 3/4" CONDUIT FROM UNIT TO A 20A-1P CIRCUIT BREAKER IN PANEL.
- WATER PUMP. RUN 2#3 AND 1#10 GROUND IN 1-1/2" CONDUIT FROM UNIT THRU BUILT IN MANUAL DISCONNECT TO A 80A-2P CIRCUIT BREAKER IN PANEL. COORDINATE LOCATION WITH GENERAL CONTRACTOR.
- TANKLESS WATER HEATER. RUN 2#12 AND 1#12 GROUND FROM UNIT TO A 20A-2P CIRCUIT BREAKER IN PANEL. COORDINATE FINAL POWER REQUIREMENTS WITH SELECTED MODEL. MAKE FINAL CONNECTIONS.
- CIRCUIT CEILING/FAN LIGHT COMBO TO LIGHTING CIRCUIT. LIGHT TO TURN ON/OFF WITH SWITCH IN THIS ROOM. THERMOSTAT TO CONTROL FAN. COORDINATE WITH HVAC CONTRACTOR.

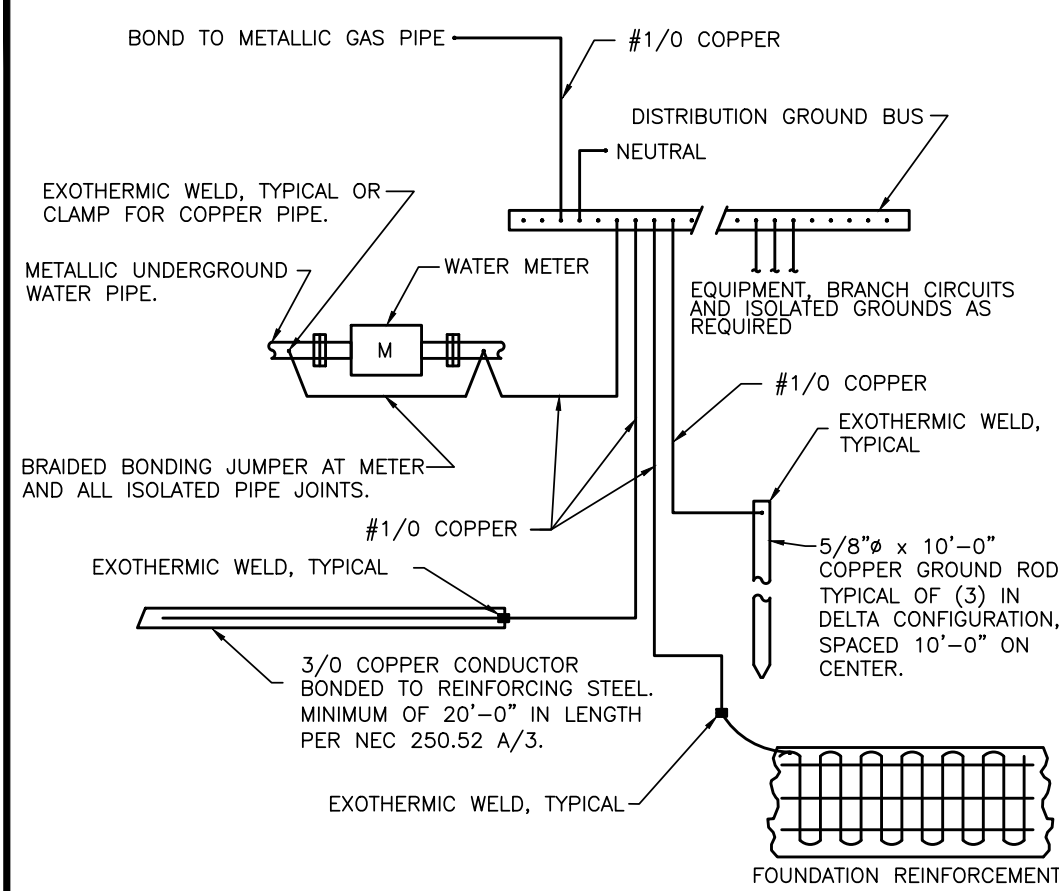


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BRIAN KEET JONES ARCHITECTS, INC.  
503 CITY PARK AVENUE COLUMBUS, OH 43215  
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**COMMONWEALTH FOLLIES**  
NEW RESTROOM AND PUMP HOUSE  
COMMONWEALTH PARK, BEXLEY, OHIO

**GROUNDING ELECTRODE SYSTEM DETAIL**

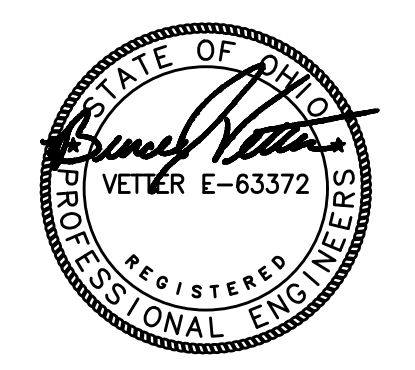


NOTE:  
WIRE SIZES INDICATED ARE MINIMUM SIZE TO BE INSTALLED. ALL GROUNDING ELECTRODE CONDUCTOR SIZES SHALL CONFORM TO NEC 250-66.  
SCALE: NONE

**ELECTRICAL SPECIFICATIONS**

1. **GENERAL**
  - A. FURNISH AND INSTALL A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HERE-IN. WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING CATEGORIES:
    - 1) WIRING DEVICES
    - 2) POWER WIRING
    - 3) MISCELLANEOUS WIRING AND INTERLOCKS
    - 4) EQUIPMENT CONNECTIONS
    - 5) PANELBOARDS/LOADCENTERS
    - 6) LIGHTING FIXTURES
  - B. OBTAIN AND PAY FOR ALL PERMITS. UPON COMPLETION, PROVIDE A CERTIFICATE OF INSPECTIONS FROM THE GOVERNING ELECTRICAL AUTHORITY.
  - C. DURING THE BIDDING PERIOD, INSPECT THE SITE AND PREMISES OF PROPOSED WORK. REPORT IMMEDIATELY ANY OBSERVED DISCREPANCIES AS RELATED TO THE PLANS OR REQUIRED WORK. ALL WORK SHALL COMPLY WITH N.E.C.
  - D. WHERE TRADE NAMES, BRANDS, OR MANUFACTURERS ARE LISTED, ANY ONE OF THE NAMED ARE CONSIDERED EQUALLY ACCEPTABLE. NON-SPECIFIED MANUFACTURERS, PRODUCTS, OR MATERIAL SHALL BE USED UNLESS IT IS SUBMITTED DURING BIDDING, WITH STATED CHANGE IN COST, AND APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF ORDER. SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT AND MATERIALS.
  - E. WORKMANSHIP SHALL BE FIRST CLASS. THE ARCHITECT AND/OR ENGINEER'S JUDGEMENT SHALL PREVAIL IF THE QUALITY IS SUSPECT.
  - F. PROTECT MATERIAL AND EQUIPMENT AFTER DELIVERY TO THE JOB SITE. RESPECT OTHER TRADES AS RELATED TO PROTECTING THEIR WORK AND TO AVOID CONSTRUCTION INTERFERENCES. CALL ATTENTION TO PROBLEMS RELATING TO SPACE REQUIREMENTS SO EARLY RESOLUTION MAY BE OBTAINED. RESPECT THE OWNER'S PROPERTY AT ALL TIMES
  - G. CUT AND PATCH TO INSTALL WORK WHERE FAILURE TO INSTALL SLEEVES OCCURS, OR PAY OTHERS TO PERFORM SUCH WORK. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM ALL OF HIS OWN CUTTING AND PATCHING OF FLOORS AND WALLS WHERE NECESSARY TO INSTALL ELECTRICAL EQUIPMENT. CONCRETE SHALL BE SAW CUT, NEATLY AND ACCURATELY. NECESSARY HOLES SHALL BE CORE DRILLED AND FIRE SEALED. PATCHING SHALL BE DONE TO MATCH BOTH THICKNESS AND FINISH OF ADJACENT MATERIAL. GENERAL CONTRACTOR SHALL DO ALL PATCHING WORK, PAID FOR BY THE ELECTRICAL CONTRACTOR.
  - H. CONDUITS, CABLES AND WIRING WHICH PENETRATE WALLS, SLABS, MASONRY, ETC., SHALL DO SO THROUGH PIPE SLEEVES. PENETRATIONS THROUGH ALL ASSEMBLIES SHALL HAVE SLEEVES AND BE SEALED OUTSIDE AND INSIDE WITH CAULK OR TIGHTLY PACKED WITH INSULATION (GLARKET OR FOAM) TO PREVENT HEAT LOSS, INFILTRATION AND SOUND TRANSMISSION. PENETRATIONS THROUGH FIRE/SMOKE RATED ASSEMBLIES SHALL BE PROTECTED WITH PRODUCTS LISTED AND LABELED TO MAINTAIN THE FIRE/SMOKE RATING OF THE ASSEMBLY.
  - I. AS EACH ELECTRICAL SYSTEM IS COMPLETED, IT SHALL BE TESTED TO ASSURE FREEDOM FROM GROUND, AND THAT ALL REQUIRED FUNCTIONS HAVE BEEN PERFORMED. WORK SHALL BE INSPECTED AND APPROVED BY THE LOCAL INSPECTION AGENCY HAVING JURISDICTION. PERFORM SPECIAL RESISTANCE TESTS WHEN REQUESTED BY THE INSPECTION AGENCY TO PROVE THE SYSTEM'S INTEGRITY. FURNISH TO THE OWNER (THROUGH THE ARCHITECT), A FINAL INSPECTION CERTIFICATE.
  - J. DEMONSTRATE FUNCTIONS PERFORMED BY DEVICES AND SYSTEMS TO THE OWNER'S REPRESENTATIVE. FURNISH TO THE OWNER, DATA SHEETS INDICATING NATURE AND FREQUENCY OF MAINTENANCE REQUIRED FOR SWITCHES, DEVICES, AND EQUIPMENT. ASSEMBLE AND DELIVER TWO (2) BOUND COPIES OF THIS DATA.
  - K. THIS CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, EQUIPMENT, AND MATERIAL ENTERING INTO THIS CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE, INCLUDING ALL LAMPS AND BALLASTS. ANY WORK PROVEN TO BE DEFECTIVE DURING THIS PERIOD SHALL BE MADE GOOD BY THIS CONTRACTOR WITH NO EXPENSE TO THE OWNER.
  - L. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF "AS-BUILT" DRAWINGS TO THE OWNER AT THE COMPLETION OF THE PROJECT. THE DRAWINGS ARE TO SHOW ALL CONDUIT, DEVICES, WIRE QUANTITY AND SIZES.
2. **DEMOLITION**
  - A. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING WORK WHICH IS KINDRED TO HIS TRADE, AND NOT REQUIRED WHEN THE NEW SYSTEM IS INSTALLED. COOPERATE WITH THE GENERAL CONTRACTOR AND REMOVE EXISTING UNUSED CONDUIT TO BEHIND WALLS OR BELOW FLOORS AS NECESSARY, OR AS DIRECTED. UPON COMPLETION, NO UNUSED CONDUIT, STUD UPS, OR JUNCTION BOXES SHALL EXTEND THRU FLOORS, WALLS, OR CEILINGS. ABANDON CONDUIT WHERE REMAINING IN PLACE SHALL HAVE ALL UNUSED WIRING REMOVED. MATERIAL AND EQUIPMENT WHICH IS REMOVED SHALL NOT BE RE-USED ON THIS PROJECT.
3. **WIRING DEVICES**
  - A. HARD USE SPECIFICATION GRADE WIRING DEVICES AND GROUND FAULT CIRCUIT INTERRUPTERS IN NEMA CONFIGURATIONS AS SHOWN ON THE ELECTRICAL PLANS. DEVICES AND COVER PLATES SHALL BE IVORY IN COLOR. COVER PLATES SHALL BE NON-BREAKABLE, AND NON-COMBUSTIBLE NYLON, 0.100" THICK. DEVICES MUST BE SIDE AND BACK WIRED. QUICK CONNECT OR PLUG-IN TYPE RECEPTABLES ARE NOT APPROVED. HUBBELL, PAS, OR COOPER.
  - B. ALL DUPLEX AND QUAD RECEPTABLES WITHIN BUSINESS OFFICES, CORRIDORS AND WAITING ROOMS IN CLINICS, MEDICAL & DENTAL OFFICES AND OUTPATIENT FACILITIES SHALL BE TAMPER-RESISTANT TYPE PER N.E.C. 406.12 EXCEPT WHERE EXEMPTED.
4. **RACEWAYS & BOXES**
  - A. CONDUIT SHALL BE USED FOR ALL WIRING, EXCEPT AS NOTED FOR "MC" CABLE ASSEMBLIES. CONDUIT SYSTEMS MAY BE ANY ONE OR A COMBINATION OF THE FOLLOWING, WITHIN RESTRICTING LIMITS INDICATED. CONDUIT TYPES NOT LISTED SHALL NOT BE USED. MINIMUM SIZE FOR ALL TYPES SHALL BE 3/4".
    - 1) RIGID GALVANIZED CONDUIT - NO RESTRICTIONS
    - 2) INTERMEDIATE GRADE GALVANIZED THREADED CONDUIT - NO RESTRICTIONS
    - 3) THINWALL CONDUIT WITH APPROVED CONNECTOR FITTINGS TO ASSURE GROUNDING CONTINUITY, SUBJECT TO THE FOLLOWING RESTRICTIONS:
      - a. HAZARDOUS OR CORROSIVE ATMOSPHERES
      - b. NOT IN POURED CONCRETE, OUTDOOR OR UNDERGROUND
      - c. EXPOSED BELOW 9" ABOVE FINISHED FLOOR
    - 4) FLEXIBLE METAL CONDUIT (GREENFIELD TYPE), GALVANIZED. USE RESTRICTED TO THE FOLLOWING APPLICATIONS:
      - a. CONNECTIONS TO LIGHTING FIXTURES, MAXIMUM LENGTH IS 6 FEET
      - b. LIQUID TIGHT FLEXIBLE METAL CONDUIT WITH WATER TIGHT OIL RESISTANT OUTER PVC COVERING. USE REQUIRED:
      - c. CONNECTIONS TO MOTORS OR CONTROL ON DYNAMIC EQUIPMENT
      - d. CONNECTIONS TO FURNITURE ELECTRICAL OUTLETS
    - 5) RIGID NON-METALLIC (SCHEDULE 40 PVC)
      - a. THIS CONDUIT MAY BE USED IN OR UNDER CONCRETE SLABS ON GRADE, IN CONCRETE DUCT BANKS, AND DIRECT BURIED
      - b. THIS CONDUIT MAY NOT RUN EXPOSED WHERE SUBJECT TO PHYSICAL DAMAGE
      - c. TYPE EB MAY BE USED WHERE U.L. LISTED FOR SPECIFIC USE INTENDED
  - B. CONDUIT FITTINGS SHALL BE MANUFACTURED BY EFCOR, STEEL CITY, RACO,
5. **CONDUITORS**
  - A. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER. MINIMUM SIZE IS #12 AWG FOR BRANCH CIRCUITS AND #14 FOR CONTROL CIRCUITS. SEE DRAWINGS FOR VOLTAGE DROP PARAMETERS. BUILDING WIRING SHALL BE INSULATED FOR 600 VOLT, TYPE THW, THWN, XHHW, OR THHN, SUBJECT TO MOISTURE AND HEAT LIMITATIONS STATED IN CODE. USE ONLY THW, THHN, OR XHHW CONDUCTORS FOR CONNECTIONS TO LIGHTING AND EMERGENCY FIXTURES. SERVICE CONDUCTORS AND SELECTED FEEDERS MAY BE ALUMINUM. ALL SERVICE AND FEEDER GROUNDING CONDUCTORS MUST BE COPPER, NO EXCEPTIONS. ALL WIRING TO BE COLOR-CODED AS FOLLOWS:
 

120/208 VOLT SYSTEM:	277/480 VOLT SYSTEM:
NEUTRAL-WHITE	NEUTRAL-GRAY
PHASE A OR L1-BLACK	PHASE A OR L1-BROWN
PHASE B OR L2-RED	PHASE B OR L2-ORANGE
PHASE C OR L3-BLUE	PHASE C OR L3-YELLOW
GROUND-GREEN	GROUND-GREEN w/ YELLOW TRACER
  - B. BRANCH CIRCUITS IN DWELLING UNITS MAY BE TYPE "NM" (ROMEX) CABLE ASSEMBLIES, WHERE PERMITTED BY N.E.C. "NM" SHALL BE USED ONLY WHERE CONCEALED IN WALLS OR ABOVE CEILINGS AND SHALL BE PROPERLY SUPPORTED.
6. **GROUNDING**
  - A. THE BUILDING NEUTRAL SHALL BE IDENTIFIED THROUGHOUT BY A WHITE CONDUCTOR. WORK INCLUDES GROUNDING OF THE SYSTEM NEUTRAL, EQUIPMENT, AND CONDUIT SYSTEMS TO CONFORM TO N.E.C. ALL GROUND RODS SHALL BE COPPER CLAD, MOLTEN CADWELDED COPPER TO STEEL, 5/8" DIAMETER, 10'-0" LONG. RUN GREEN GROUND CONDUCTOR IN ALL CONDUITS. PROVIDE BONDING JUMPER.
7. **PANELBOARDS/LOADCENTERS**
  - A. BRANCH CIRCUIT PANELBOARDS SHALL BE SQUARE D TYPE "QO" FOR 120/208V-3Ø-4W, AND TYPE "NF" FOR 277/480V-3Ø-4W. BRANCH CIRCUIT LOADCENTERS SHALL BE SQUARE D TYPE "OO" FOR 120/208V-1Ø-3W. EQUALS BY GENERAL ELECTRIC, EATON OR SIEMENS. SEE DRAWINGS FOR SURFACE OR FLUSH MOUNTING. BUSSES SHALL BE ALL COPPER WITH SEPARATE GROUND BAR. CIRCUIT BREAKERS SHALL BE BOLTED TYPE WITH 10KAIC FOR BRANCHES AND 42KAIC FOR MAIN BREAKERS. CIRCUIT BREAKERS USED FOR PROTECTION OF HEATING, AIR CONDITIONING AND REFRIGERATION EQUIPMENT SHALL BE UL "HACR" TYPE. CABINETS SHALL BE MINIMUM OF 20" WIDE WITH HINGED AND LOCKED DOOR. ALL PANELS SHALL BE KEYPED THE SAME.
  - B. NEW CIRCUIT BREAKERS ADDED TO EXISTING PANELBOARDS SHALL MATCH PANEL MANUFACTURER, VOLTAGE RATING, AND FAULT CURRENT RATING OF EXISTING PANELBOARD VALVES.
8. **FUSES**
  - A. PROVIDE FUSES FOR EACH FUSE GAP IN FUSIBLE DISTRIBUTION EQUIPMENT AND DISCONNECT SWITCHES BY BUSSMANN, GOULD-SHAMMUT OR LITTELFUSE ONLY. FUSES OVER 600 AMP UL CLASS L SHALL BE BUSSMANN TYPE KR-C. SMALLER FUSES UL CLASS RK-1 SHALL BE BUSSMANN LPI-SF, LPN-RK OR LPS-RK DUAL ELEMENT TIME DELAY. FURNISH ONE SPARE FUSE FOR EACH FUSE REQUIRE. TURN OVER TO THE OWNER AND RECORD IN WRITING TO THE ARCHITECT.
9. **DISCONNECTS, STARTERS AND CONTROLS**
  - A. DISCONNECT SWITCHES SHALL BE HEAVY DUTY WITH LOCKING DEVICES, FUSED WHERE USED TO PROTECT CIRCUIT WIRING.
  - B. MOTOR STARTERS AND CONTROLS SHALL BE SQUARE D TYPE S (CLASS 8536) EQUALS BY ALLEN BRADLEY, GENERAL ELECTRIC, EATON OR SIEMENS STARTERS AND CONTROLS. ALL TERMINATIONS SHALL BE MARKED "75°C ONLY", "60/75°C" OR LISTED FOR USE OF 75°C INSULATED WIRE AT FULL 75°C AMPACITY. A HAND-OFF-AUTO SWITCH SHALL BE MOUNTED IN THE FACE OF EACH STARTER ENCLOSURE. ALL CONTROL DEVICES SHALL BE WIRED IN AUTO POSITION ONLY. A SPARE AUXILIARY CONTACT SHALL BE PROVIDED FOR FUTURE INTERLOCK.
  - C. CONTROL RELAYS: CONTROL RELAYS SHALL BE SIMILAR TO SQUARE D CLASS 800 WITH 600 VOLT, 15 AMP CONVERTIBLE CONTACTS. FURNISH IN NEMA 1 ENCLOSURE WITH COILS AND CONTACTS. EQUIPMENT SHALL BE SQUARE D OR EQUAL BY SIEMENS, G.E. OR EATON.
10. **IDENTIFICATION**
  - A. IDENTIFY THE FOLLOWING: SWITCHBOARDS, PANELBOARDS, DISTRIBUTION PANELS, DISCONNECT SWITCHES AND BREAKERS, AND MOTOR STARTERS, ETC. INSTALL AN ENGRAVED, LAMINATE PLASTIC PLATE (NORMAL POWER-BLACK PLATE WITH WHITE LETTERS, EM POWER-RED PLATE WITH WHITE LETTERS). INSTALL A TYPED WRITTEN DIRECTORY IN EACH BRANCH CIRCUIT PANEL.
  - B. IN HOSPITALS AND NURSING HOMES, INSTALL A CIRCUIT NUMBER LABEL (EX. A-30) ON EACH LIGHT SWITCH AND POWER RECEPTACLE COVER PLATE (NORMAL POWER-BLACK LABEL WITH WHITE LETTERS. EM POWER-RED LABEL WITH WHITE LETTERS).



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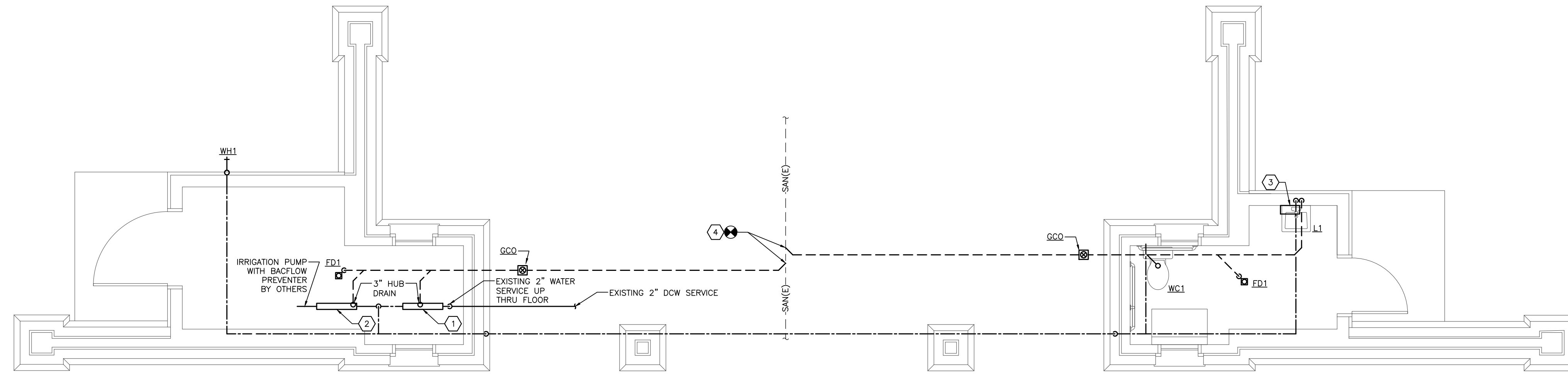
**COMMONWEALTH FOLLIES**  
NEW RESTROOM AND PUMP HOUSE  
COMMONWEALTH PARK, BEXLEY, OHIO

Date: March 20, 2023

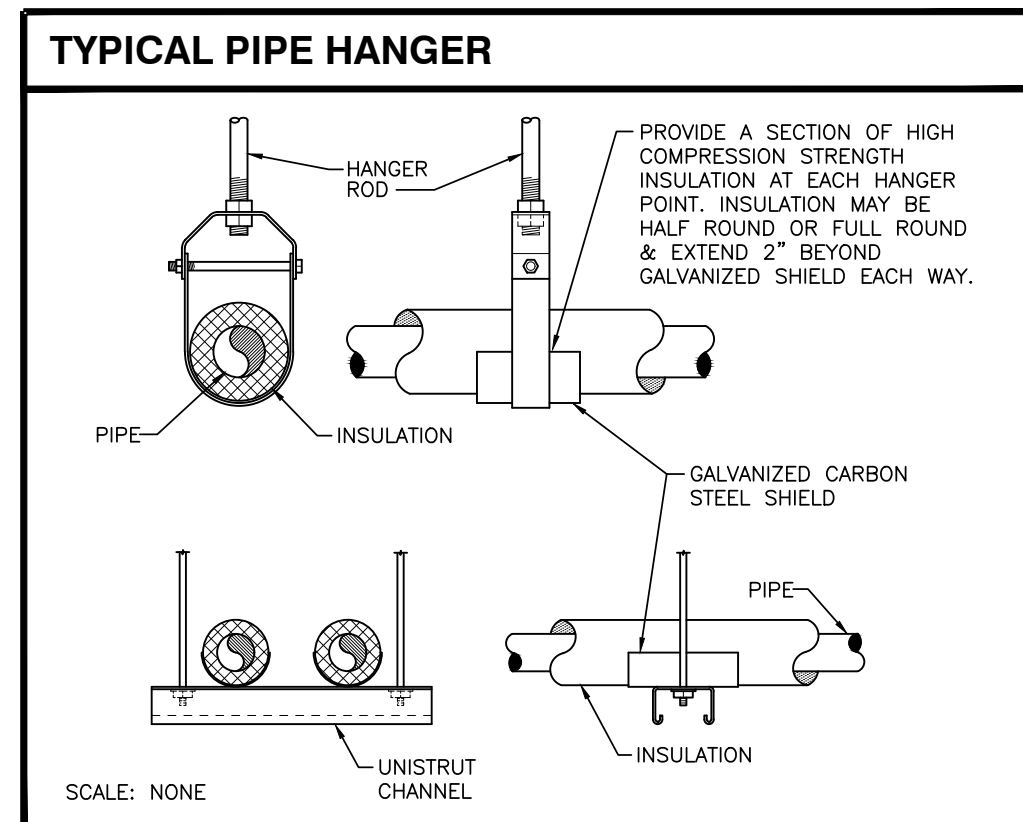
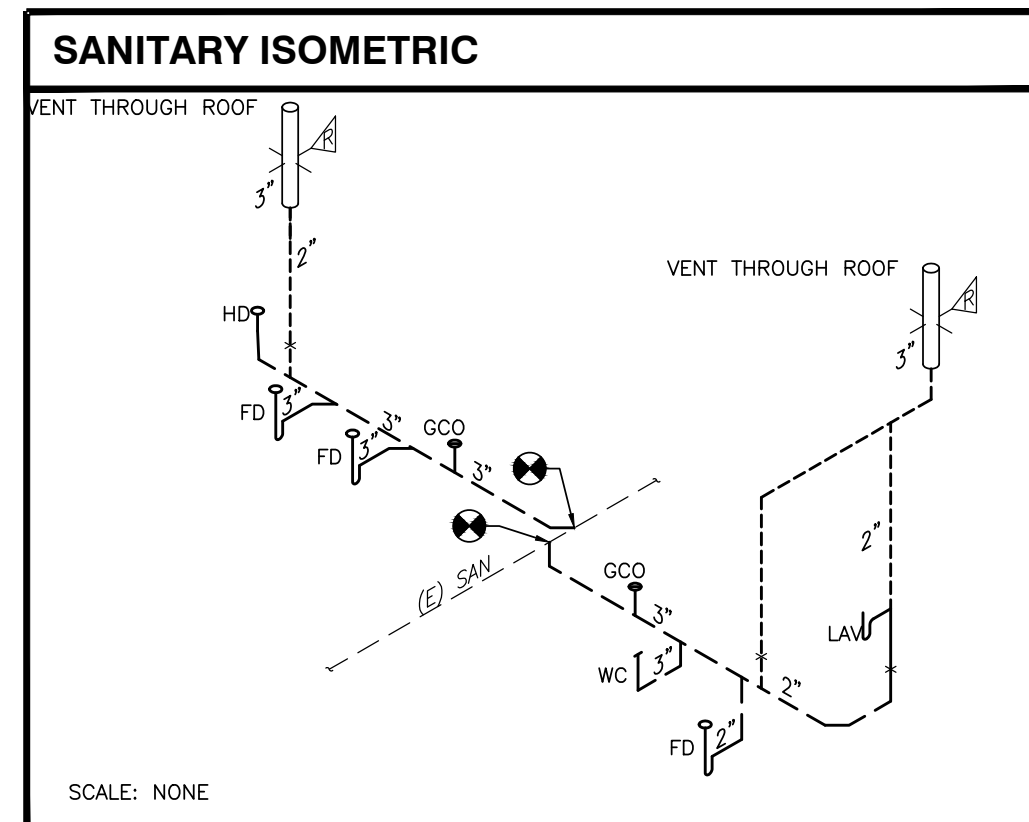
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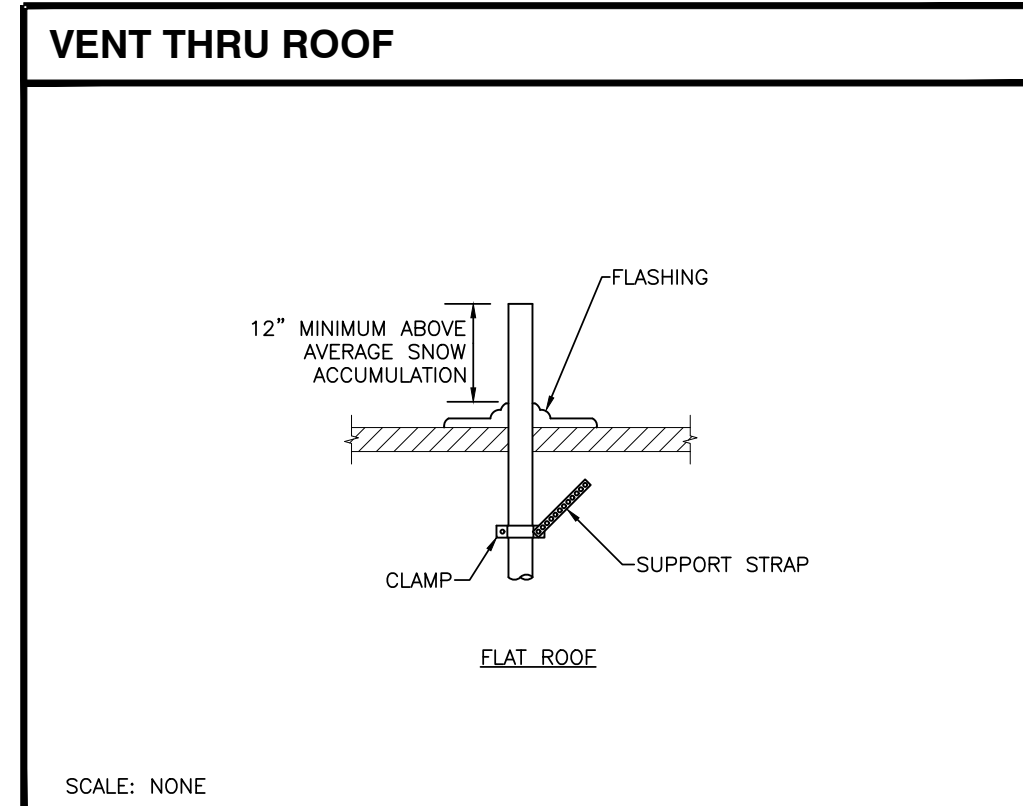
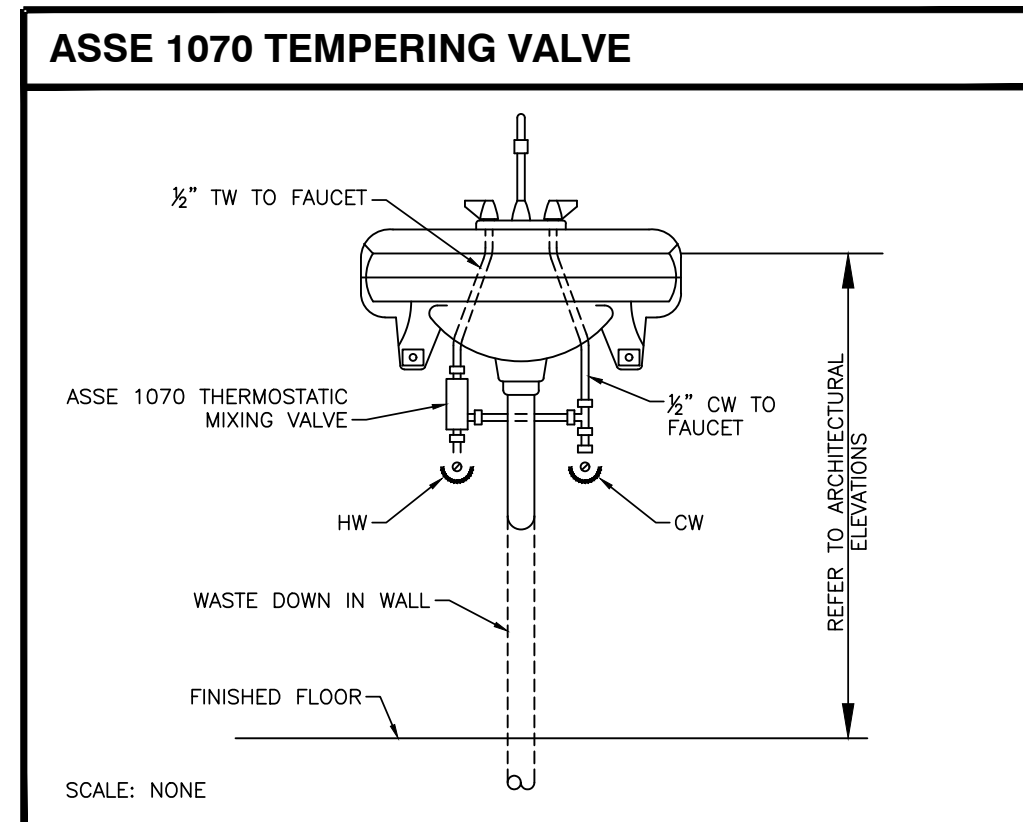
**PLUMBING PLAN**  
SCALE: 1/4"=1'-0"



PLUMBING DRAINAGE SPECIALTIES SCHEDULE			
TAG	TYPE	BASIS OF DESIGN	OUTLET
FD1	FLOOR DRAIN	ZURN #Z415, STAINLESS STEEL STRAINER. PROVIDE FUNNEL WHERE NOTED. BARRIER TYPE TRAP SEAL: JR SMITH QUAD SEAL, ASSE 1072.	SEE ISO
GCO	GRADE CLEANOUT	ZURN ZS1400-DC, GRADE CLEANOUT-HEAVY DUTY, ADJUSTABLE HEIGHT, DURA-COATED CAST IRON TOP, DURA-COATED CAST IRON BODY, GAS TIGHT PLUG, ACCESS COVER WITH SECURING SCREW.	SEE ISO

PLUMBING FIXTURE SCHEDULE			
TAG	TYPE	BASIS OF DESIGN	NOTES
WC1	WATER CLOSET	FIXTURE: AMERICAN STANDARD #215AA104, FLOOR SET, BOTTOM OUTLET, 12" ROUGH IN, TANK TYPE, 1.28 GPF. PROVIDE WITH AMERICAN STANDARD #5321.110 SEAT. ADULT ADA COMPLIANT.	FLUSH LEVER SHALL BE ON WIDE SIDE OF STALL
L1	LAVATORY	FIXTURE: AMERICAN STANDARD #0356, 20"x18" WALL HUNG, WHITE VITREOUS CHINA, CONCEALED ARMS SUPPORT, CHICAGO #797, 4" WRISTBLADE HANDLES, 0.5 GPM.	PROVIDE WITH ASSE 1070 MIXING VALVE
WH1	FREEZELESS WALL HYDRANT	WOODFORD #B65, ASSE 1019 VACUUM BREAKER, AUTOMATIC DRAINING, CHROME FINISH, MODULAR BOX WITH KEY CYLINDER LOCK.	

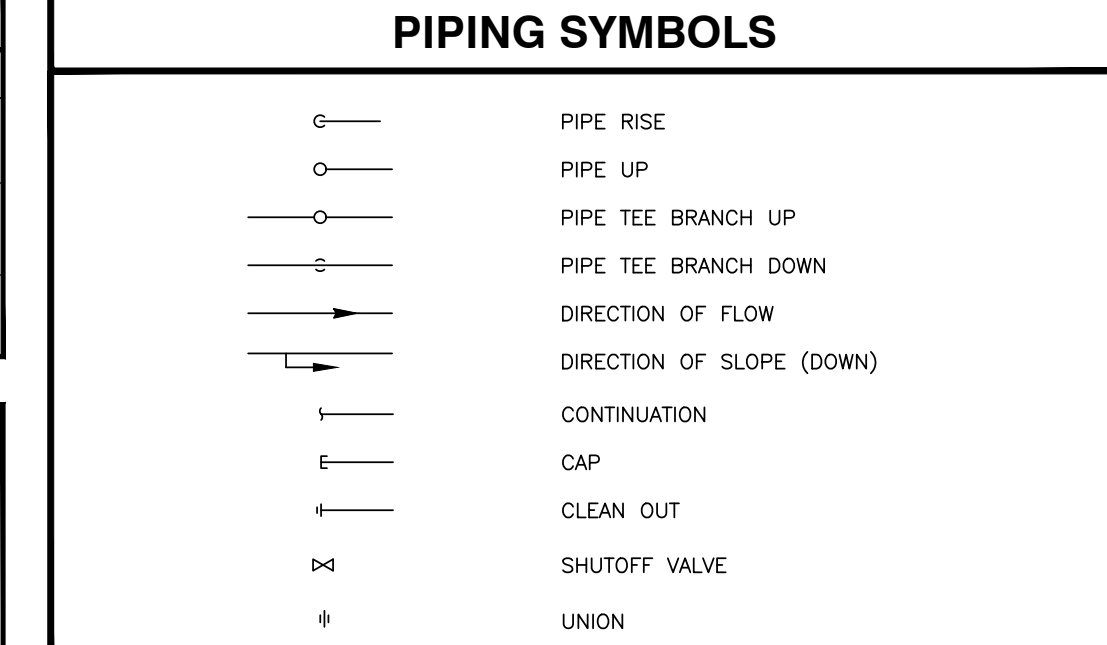
- PLUMBING SPECIFICATIONS**
- FIXTURES**
- SUBMIT SHOP DRAWINGS ON ALL ITEMS AND MATERIALS.
  - INSTALL ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
  - WATER METERS:
    - DOMESTIC WATER SERVICE.
  - BACKFLOW PREVENTER: A.S.S.E. NO. 1013, WATTS.
  - COVER: MINIMUM 48".
  - INSTALL METER AND BACKFLOW ASSEMBLY, INCLUDING SERVICE ENTRANCE RISER, PER LOCAL WATER DEPARTMENT REQUIREMENTS.
- DOMESTIC WATER SYSTEM**
- PIPING:
    - COPPER TUBE, TYPE "L", HARD DRAWN, ASTM B-88; WROT COPPER SOCKET FITTINGS, ASME B16.22; SOLDER JOINTS.
    - COPPER TUBING, TYPE "L", HARD DRAWN, ASTM B-88; VEGA PRESS FITTINGS OR APPROVED EQUAL; PRESS JOINTS.
    - CPVC TUBE, SCHEDULE 40, ASTM D-2846, SDR 11; CPVC SOCKET FITTINGS; CEMENTED JOINTS.
    - PEX TUBE, ASTM F-877, SDR 9; METAL INSERT FITTINGS WITH COPPER OR STAINLESS STEEL CRIMP RINGS.
    - PP-R
  - INSTALL COPPER PIPING IN ACCORDANCE WITH THE COPPER TUBE HANDBOOK.
  - INSULATION:
    - FIBERGLASS PIPE INSULATION, ALL-SERVICE JACKET.
    - THICKNESS: 1" THICK FOR PIPING 1-1/4" AND LARGER, 1/2" THICK FOR PIPING 1" AND SMALLER.
  - COMPLY WITH NSF 61 FOR ALL POTABLE WATER PIPING AND COMPONENTS.
  - COMPLY WITH NSF 14 FOR ALL PLASTIC POTABLE WATER PIPING AND COMPONENTS.
  - INSTALL COPPER PIPING PER CDA'S "THE COPPER TUBE HANDBOOK".
  - INSTALL PRESS FITTINGS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- EQUIPMENT**
- ELECTRIC TANK TYPE WATER HEATERS.
    - ALL ELECTRICAL CONNECTIONS TO BE MADE BY THE ELECTRICAL CONTRACTOR.
    - WATER HEATERS SHALL BE AS MANUFACTURED BY A.O. SMITH. THE SAME TYPE HEATERS AS MANUFACTURED BY BRADFORD WHITE, LOCHINVAR, RUJD OR STATE MAY BE FURNISHED AT THE CONTRACTOR'S OPTION.
    - UNITS TO OPERATE ON 208 VOLT, 60 HERTZ, SINGLE PHASE.
    - INSTALL WATER HEATERS AS RECOMMENDED BY THE MANUFACTURER.
    - PROVIDE A TEMPERATURE PRESSURE RELIEF VALVE ON THE HOT WATER OUTLET ONLY IF REQUIRED BY LOCAL CODE AUTHORITY.
    - ALL ELECTRIC WATER HEATERS SHALL MEET OR EXCEED THE REQUIREMENTS OF ASHRAE/IES 90.1 ENERGY EFFICIENCIES STANDARD AND THE INTERNATIONAL ENERGY CONSERVATION CODE.
- WATER SERVICE**
- PIPING:
    - 2" AND UNDER: COPPER TUBING, TYPE "K", SOFT; ONE PIECE CONTINUOUS THROUGH FLOOR.
- HANGERS**
- COATED MOUNTED AT 10 FT. INTERVALS. PROVIDE INSULATION SADDLES AND INSERTS TO PROTECT INSULATED PIPING.
  - THREADED ROD USED FOR HANGERS SHALL BE 3/8" OR LARGER.



- GENERAL NOTES**
- ALL WORK SHALL COMPLY WITH THE LATEST EDITIONS OF THE OHIO BUILDING CODE, OHIO PLUMBING CODE AND ALL OTHER FEDERAL, STATE AND LOCAL CODES HAVING JURISDICTION.
  - OBTAIN AND PAY FOR ALL APPLICABLE FEES AND PERMITS AND ARRANGE FOR ALL NECESSARY INSPECTIONS BY THE AUTHORITIES HAVING JURISDICTION.
  - PROVIDE ALL NECESSARY MATERIAL, EQUIPMENT, SERVICES, LABOR, ETC., AS REQUIRED TO COMPLETE THE CONSTRUCTION OF THIS WORK IN ACCORDANCE WITH ALL THE CONTRACT DOCUMENTS.
  - EXAMINE THE PROJECT CONTRACT DOCUMENTS TO DEVELOP A COMPLETE UNDERSTANDING OF THE SCOPE OF WORK BEFORE SUBMITTING BID.
  - PIPING ROUTING AND EQUIPMENT LAYOUT IS DIAGRAMMATIC ONLY. COORDINATE THE EXACT LOCATIONS WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS.
  - CUT AND PATCH FLOORS, WALLS AND OUTDOOR SURFACES WHERE NECESSARY TO INSTALL PLUMBING PIPING AND/OR EQUIPMENT. CONCRETE SHALL BE SAW CUT, NEATLY AND ACCURATELY. NECESSARY HOLES SHALL BE CORE DRILLED. PATCHING SHALL BE DONE TO MATCH BOTH THICKNESS AND FINISH OF EXISTING ADJACENT MATERIAL. ALL FIRE WALL PENETRATIONS SHALL BE FIRE STOPPED WITH MATERIALS APPROVED FOR ACTUAL CONDITIONS.
  - UNLESS OTHERWISE NOTED, ALL PIPING SHALL BE CONCEALED WHEREVER POSSIBLE. PROVIDE CHROME ESCUTCHEON AT EACH PENETRATION OF A FINISHED SURFACE.
  - ALL WALL AND SLAB PENETRATIONS OF MASONRY OR CONCRETE CONSTRUCTION SHALL BE SLEEVED.
  - PROVIDE FIRE STOPPING AT ALL PENETRATIONS OF FIRE RATED ASSEMBLIES AND ENCLOSURES.
  - REFER TO ARCHITECTURAL DRAWINGS FOR ALL PLUMBING FIXTURE MOUNTING HEIGHTS.
  - FIELD VERIFY INVERTS, LOCATION, AND FLOW DIRECTION OF EXISTING SANITARY AND STORM SEWER PIPING PRIOR TO PERFORMING ANY PLUMBING WORK.
  - FIELD VERIFY ROUTING AND PIPE SIZING OF EXISTING ABOVE GROUND CW, HW, SAN & VENT PIPING PRIOR TO PERFORMING ANY PLUMBING WORK.
  - REMOVE CEILING TILES AS REQUIRED TO PERFORM WORK. RE-INSTALL CEILING TILES AFTER WORK IS COMPLETE AND REPLACE ALL TILES DAMAGED OR BROKEN DURING WORK. COORDINATE ALL WORK WITH OWNER.
  - COORDINATE TEMPORARY SHUTDOWNS OF PLUMBING SYSTEMS.
  - REFER TO SCHEDULES AND DETAILS FOR INDIVIDUAL FIXTURE BRANCH SIZES WHERE NOT SHOWN.

**PIPING LINETYPES**

----	DCW	DOMESTIC COLD WATER
----	HW	DOMESTIC HOT WATER
----	V	SANITARY VENT
----	SAN	SANITARY
----	SAN	SANITARY (BELOW FLOOR)
----	(E)	EXISTING (LIGHT)
----		NEW (DARK)



**FIXTURE BRANCH LINE SIZE SCHEDULE**

FIXTURE TYPE	TRAP	SAN	COLD WATER	HOT WATER
WATER CLOSET (TANK)	INTEGRAL	3"	1/2"	-
LAVATORY		1 1/2"	1/2"	1/2"

- PLAN NOTES**
- EXISTING WATER SERVICE, METER, AND BACKFLOW PREVENTER TO REMAIN.
  - EXISTING IRRIGATION SYSTEM BACKFLOW PREVENTER TO REMAIN.
  - TANKLESS WATER HEATER EEMAX MODEL# SPX4208T OR EQUAL. CONNECT TO COLD WATER LINE AND SINK PER MANUFACTURER'S DIRECTIONS.
  - CONTRACTOR TO VERIFY FLOW DIRECTION PRIOR TO CONNECTION.



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Scale:  
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