# Public Bathrooms - Remodel 68 Boundary Street, Unit 2, Bluffton, SC 29910

F. Occupancy Load (IBC Table 1004.1.2)

Doors (LSC 7.2.1.2.3): Required-32" Provided-36" Complies

Ramps (LSC 7.2.5): Réquired Width-44" Provided-66" Complies

Means of egress shall have signs in accordance with IBC section 1008

Class A, B or C

No Requirements

Exits, other than main exterior exit doors shall be marked by an

approved sign readily visible from any direction of exit access.

-68 Boundary St., Unit 2

Required per floor: Required-2 Provided-2 Complies

3. Travel Distance to Exits (IBC table 1017.2) Non-sprinklered

1. Public Bathrooms: N/A

G. Means of Egress (LSC 7.3.3)

1. Stairs (LSC 7.2.2): N/A

Allowed: 300'-0" max

Allowed: 100'-0" max

Allowed: 20'-0" max

I. Interior Finishes (LSC 13.3.3)

Wall and Ceiling Finishes:

5. Dead-end Corridor (IBC 1020.4)

Actual: 18'-0"

Actual: N/A

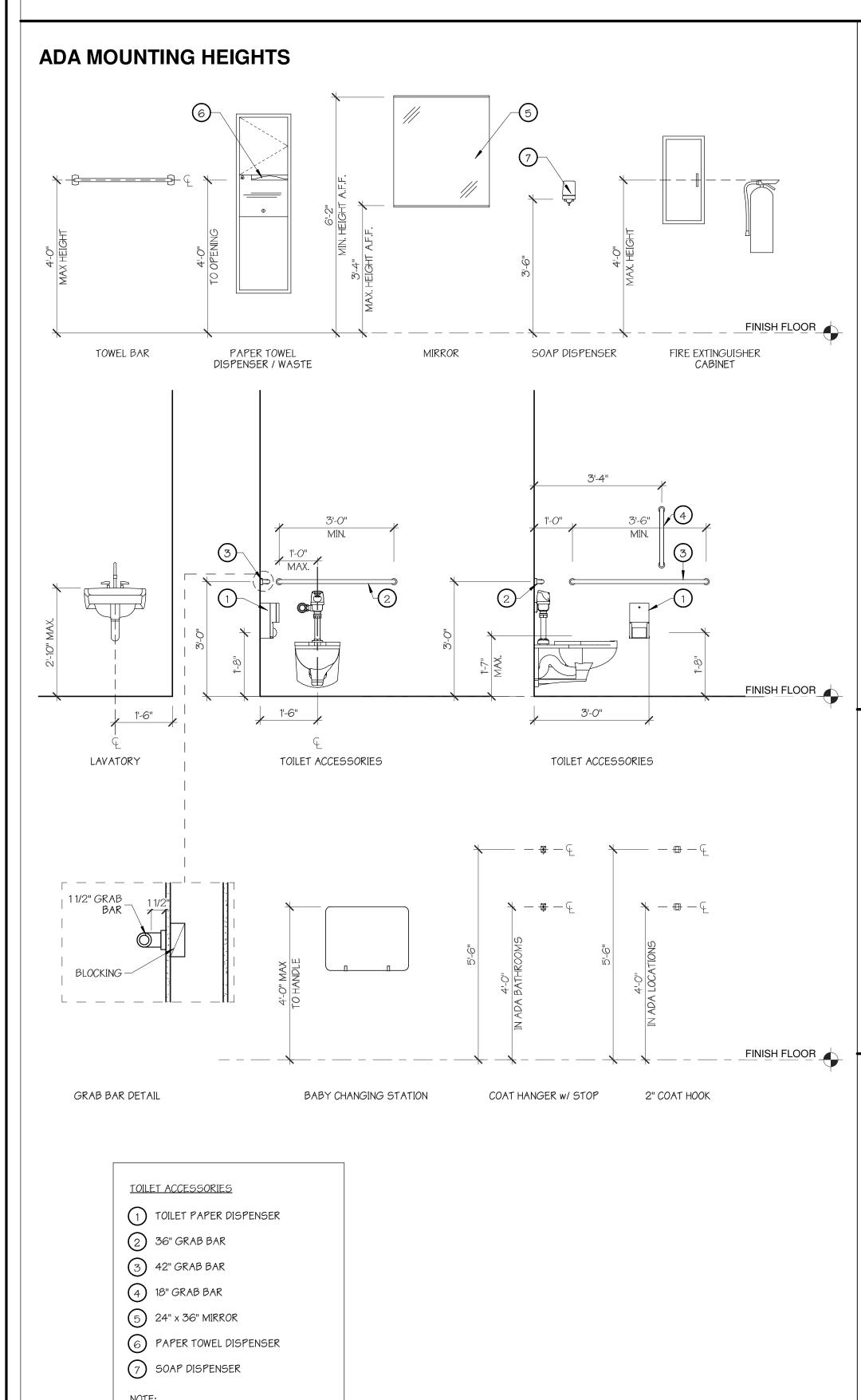
Actual: N/A

Corridors (LSC 13.3.6): N/A

2. Number of Exits per Floor (IBC Table 1006.3.1)

4. Common Path of Travel (IBC Table 1006.2.1)

H. Marking Means of Egress (IBC 1008 & 1025)



#### **CODE INFO**

68 Boundary Street, Unit 2 A. Property Address: Bluffton, SC 29910 B. Gross Project Area: 489 sq. ft

C. Building Height in Stories: 1 Story (Existing brick structure) II. CODE REQUIREMENTS

A. Applicable Codes (with South Carolina Amendments): 2015 International Building Code 2014 National Electric Code 2015 International Mechanical Code

2015 International Plumbing Code 2015 International Fire Code 2009 International Energy Conservation Code 2017 ICC/ANSI 117.1 Accessibility Code 2015 NFPA 101 Life Safety Code

B. Occupancy Classification: Utility and Miscellaneous Group U

C. Fire District Provisions: Applicable

D. Construction Type:

Actual:

1. Type IIB nonsprinklered and unprotected - (IBC Section 602.2): Existing 2. IBC Table 504.4 & 506.2 Maximum No. of Stories: 2 stories allowed (Non-sprinklered) - Complies 8,500 sq.ft. per floor (Non-sprinklered) Allowable Area:

489 sq.ft. - Complies

E. Construction Protection 1. Fire Protection of Structural Elements (IBC Table 601) Existing/New O-hr Required

O-hr Required Bearing Walls - Exterior: O-hr Required Bearing Walls - Interior: O-hr Reauired Non-Bearing Walls: Floor/Ceiling Construction: O-hr Required O-hr Required Roof/Ceiling Construction:

2. Fire Separation Requirements (IBC 602) Fire-Resistance Rating for Exterior Walls: O-hr Required

#### **DRAWING INDEX**

**COVER SHEET & DRAWING INDEX** 

SITE SURVEY

MECHANICAL PLAN

**ELECTRICAL GENERAL NOTES** 

**ELECTRICAL POWER & LIGHTING PLAN** 

**ELECTRICAL NOTES** 

ELECTRICAL SITE PLAN

**ELECTRICAL LIGHTING DETAILS** 

**ELECTRICAL SCHEDULE** 

PLUMBING GENERAL NOTES

PLUMBING WASTE & WATER PLAN

**RISERS** 

SITE PLAN

**EXISTING PLAN & EXTERIOR ELEVATIONS** PROPOSED PLAN & EXTERIOR ELEVATIONS

FOUNDATION, ROOF, & ELECTRICAL PLANS

SECTIONS & EXTERIOR DETAILS

#### **GENERAL NOTES**

1. Approved numbers or addresses shall be provided in a position that is visible and legible from the street or roadway. Letters and numbers shall be a minimum of 4 inches in height with a minimum 0.5 inch stroke. (501.2)

2. Toilet rooms are required to have a smooth, hard, nonabsorbent surface that extends at least 4 inches onto walls. (1210.2.1)

3. Walls within 2 feet of urinals and water closets are required to be covered with a smooth, hard, nonabsorbent surface to a height of 4 feet.

4. Accessible routes shall coincide with or be located in the same area as a general circulation path. Where the circulation path is interior, the accessible route shall also be interior. (1104.5)

5. The minimum ramp width is 44 inches. If a ramp serves an occupant load of 50 or less, it may be 36 inches wide. If the ramp is serving a high occupant load, check exit requirements above for required width. (1012.5.1 & Table 1020.2) If the ramp is part of the means of egress, the maximum slope is 1:12. All other ramps may have a slope of 1:8 or less. (1012.2)

6. Landings shall be provided at the top, bottom, points of turning and at doors. (1012.6) Landings shall have a length of at least 60 inches in the direction of travel. (1012.6.3) The surface shall of slip-resistant materials that are securely attached. (1012.7.1) Handrails shall be per stair réquirements. (1012.8) A curb, rail, wall or barrier shall be provided that prevents the passage of a 4-inch diameter sphere, where any portion of the sphere is within 4 inches of the floor or ground surface. (1012.10.1)

#### PROJECT DESCRIPTION

This project consists of a renovation of an existing 1-story building, located on Lawrence Street on the lot of 68 Boundary Street in the Town of Bluffton.

#### **PROJECT TEAM**

**ARCHITECT:** Pearce Scott Architects H. Pearce Scott, AIA

6 State of Mind Street, Suite 200 Bluffton, SC 29910 P: 843.837.5700

E: pearce@pscottarch.com

Pat Rooney 20 Bridge Street Bluffton, SC 29910 P: 843.706.4506 C: 843.816.6067 C: 843.706.4521

E: prooney@townofbluffton.com

OWNER:

Town of Bluffton

#### MEP ENGINEER:

Thomas & Reel Engineering Consultants, Inc. Dan R. Reel

9100 White Bluff Road, Suite 306 Savannah, GA 31406

P: 912.920.0950 F: 912.920.0948

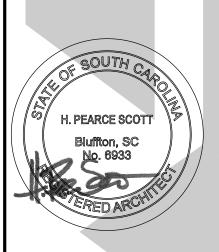
E: dreel@thomasreel.com

### **PEARCE** SCOTT ARCHITECTS

DO NOT SCALE FROM DRAWINGS

© 2019 PEARCE SCOTT ARCHITECTS

6 STATE OF MIND STREET SUITE 200 BLUFFTON, SC 29910 pearce@pscottarch.com 843 837 5700



PROJECT NUMBER:

03.13.18 ERG CHECKED BY:

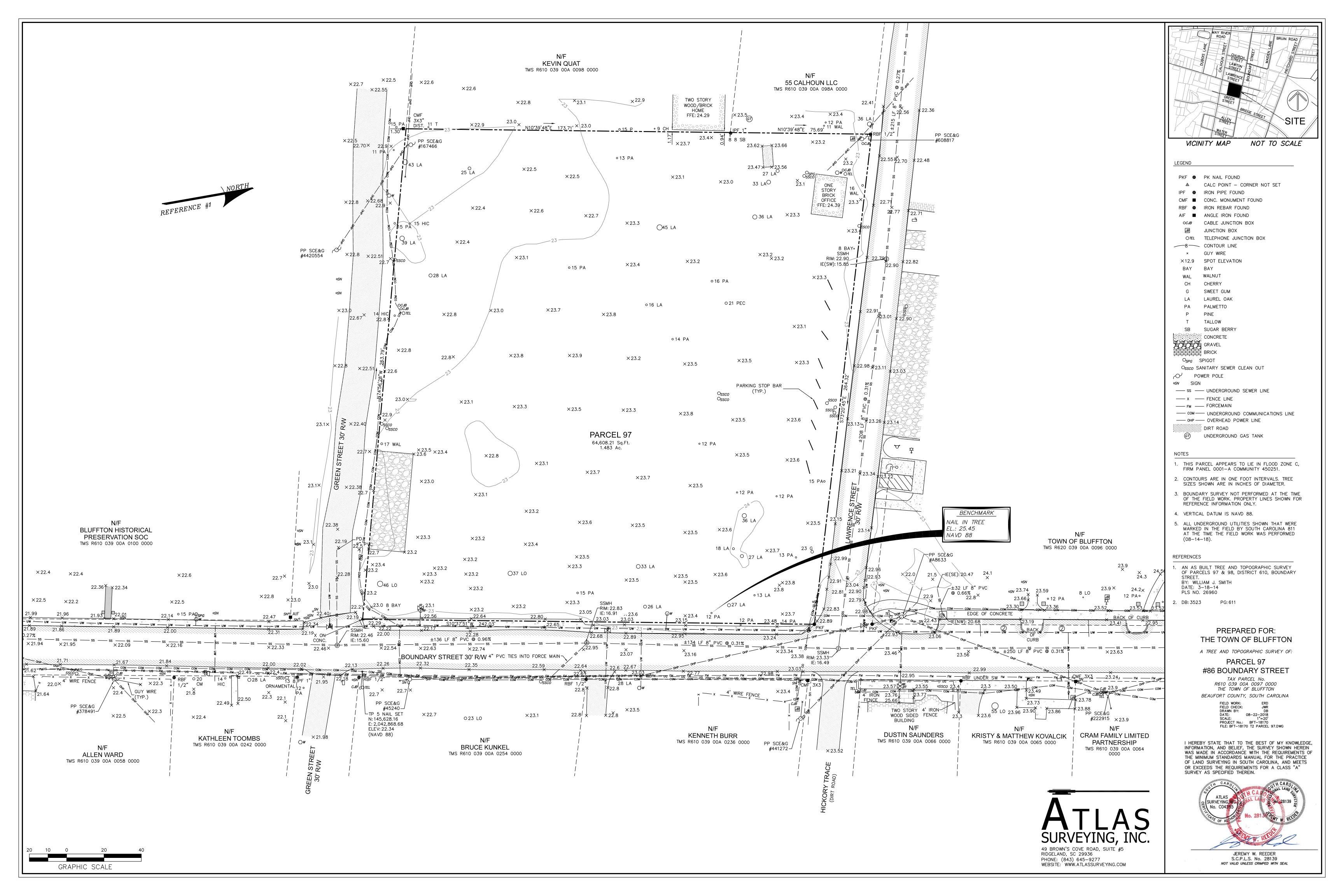
COVER SHEET & **DWG INDEX** SHEET NO.

**LOCATION MAP** 



1. PROVIDE ICC/ANSI A117.1-2003 COMPLIANT SIGNAGE W/ BRAILLE
2. ALL FIXTURES TO MEET FEDERAL,

STATE, AND LOCAL ADA REQUIREMENTS



#### MECHANICAL SPECIFICATION NOTES

I. ALL WORK SHALL CONFORM TO IBC 2015, IPC, IMC 2015, NFPA70 2014 AND LOCAL CODES AND ORDINANCES.

2. EXHAUST DUCTS: GALVANIZED STEEL.

#### **GENERAL NOTE:**

DRAWING(S) ARE <u>SCHEMATIC</u>, CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL DEVICE LOCATIONS AND INTERCONNECT ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONFIGURATION AND REQUIREMENTS.

## MECHANICAL LEGEND

AIR RETURN DUCT/GRILLE

AIR SUPPLY DUCT/DIFFUSER

EXHAUST FAN

ROOF MOUNTED EXHAUST FAN

SMOKE DETECTOR DUCT MTD. SMOKE DETECTOR

THERMOSTAT

AIR HANDLER

CONDENSING UNIT OR COMPRESSOR UNIT

FIRE EXTINGUISHER

EXHAUST FAN CFM € CUBIC FEET PER MINUTE

OUTSIDE AIR FIRE DAMPER

RETURN AIR

SUPPLY AIR

**EQUIPMENT LIST:** 

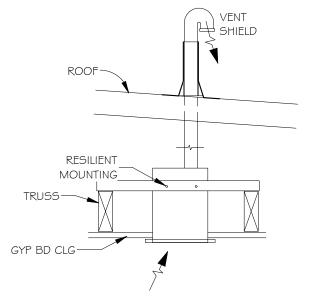
	SYM	DESCRIPTION	ELECT	ELECTRICAL GAS					PLUMBING			
QTY.	DESCRIPTION	V	Α	HP	BTU/H	SIZE	Н	С	WASTE			
2	1	INSTA HOT	240	40	-	-	-	3/4"	3/4"	3/4"		

#### VENTILATION EQUIPMENT SCHEDULE

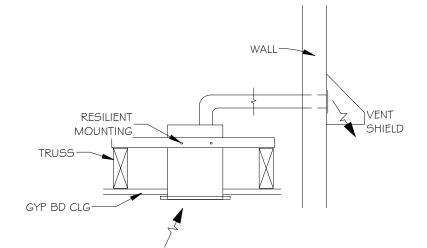
		NOMINAL		FAI	N	OA	FI	FCTR	RICAL		NOM		
QTY	UNIT NO.	COOLING	MIN. SFFR	CEN 4	HP	CFM	VOLTS			МОСР	WT LBS	DESIGN BASIS  MANUFACTURER & MODEL #	NOTES
		TONS (T)	JLLI	CFIVI	1 11		VOLIJ	111	IVICA	IVIOCI	LDS	TVI (NOT / CTOTALLY 1 TVICOLL II	NOTES
4	EF	_	_	150	_	_	120	1 1	1.14	20	_	GREENHECK SPB-150 OR EQUIV.	1.2.3.4.5

#### NOTES

- I. BY OWNER
- 2.OPERABLE FROM LIGHT SWITCH IN EACH BATHROOM
- 3. CONNECTED TO OPERATE WITH LIGHT.
- 4. DIRECT EXHAUST.
- 5. ELECTRIC FAN TO CONFORM TO UL/cUL 507



2 EXHAUST FAN (EF) DETAIL THROUGH ROOF N.T.S.



3 EXHAUST FAN (EF) DETAIL THROUGH WALL N.T.S.

#### **GENERAL NOTES**

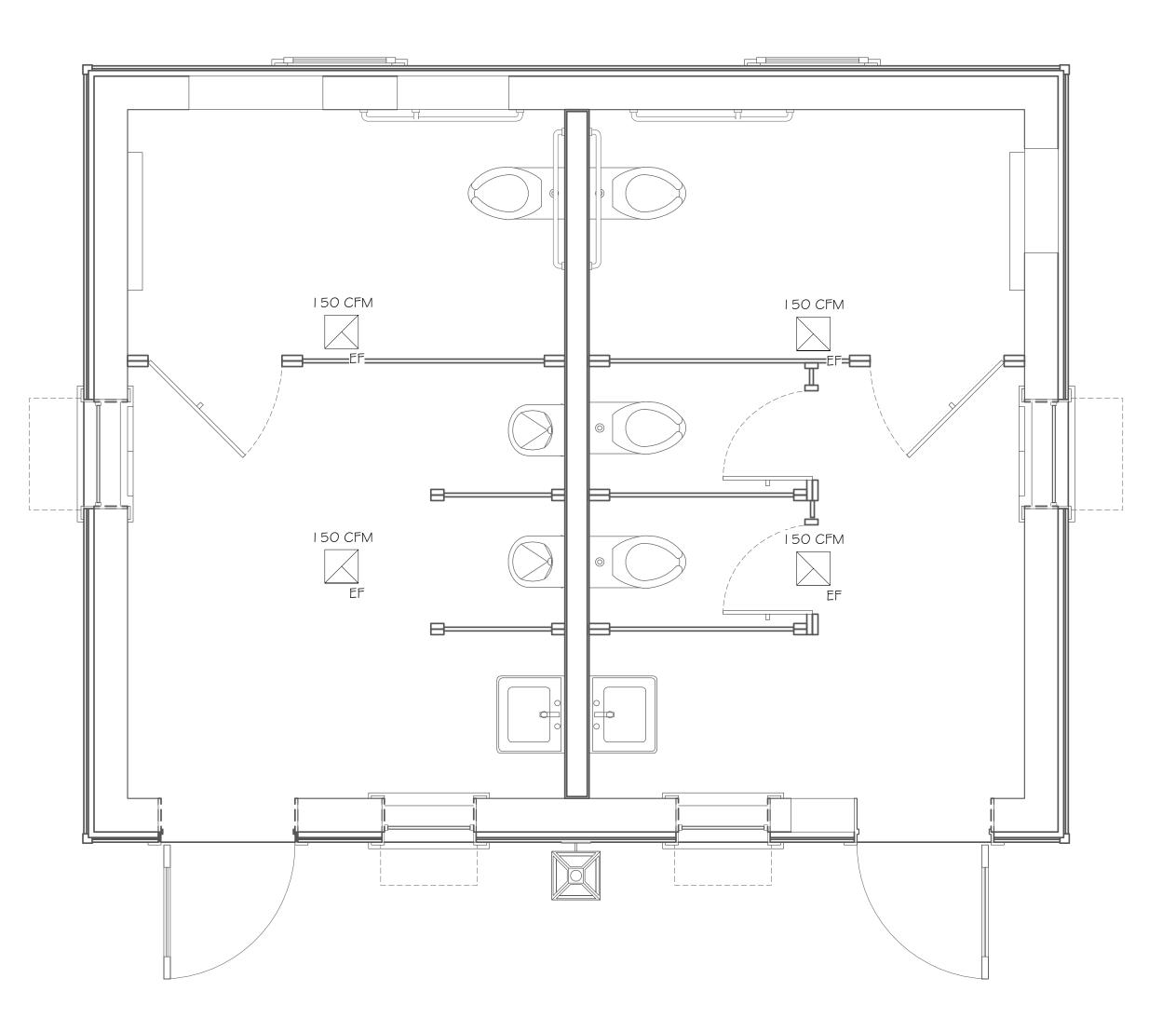
- DRAWING(S) ARE SCHEMATIC, CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL DEVICE LOCATIONS AND INTERCONNECT ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONFIGURATION AND REQUIREMENTS.
- OWNER AND/OR CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCY AND/OR ITEMS IN NEED OF CLARIFICATION AND/OR DETAIL ELABORATION.
- OWNER AND/OR CONTRACTOR TO NOTIFY ENGINEER OF ANY KNOWN ERRORS AND/OR OMISSIONS IN NEED OF ELABORATION IN WRITING FOR ENGINEERING REVIEW
- OWNER AND/OR CONTRACTOR TO NOTIFY ENGINEER OF ANY DIFFERENT SITE CONDITIONS, STRUCTURAL CONDITIONS, SPACE UTILIZATION OF ANY OTHER DIFFEREING CONDITION IN WRITING. ENGINEER TO REVIEW AND RESPOND TO ALL WRITTEN NOTIFICATIONS.

#### MECHANICAL / ELECTRICAL COORDINATION

- CONTRACTOR SHALL COORDIANTE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOTAGES SHOWN THEREIN. SHOP DRAWING SUBMITTALS SHALL CLEARLY STATE THAT THE ELECTRICAL CHARACTERISTICS OF ALL EQUPMENT HAS BEEN COORDINATED WITH THE ELECTRICAL CONTRACT DOCUMENTS AND THE ELECTRICAL CONTRACTOR.
- ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS, AND THE ELECTRICAL DRAWINGS.
- LL REQUIRED CONTROL WIRING (INCLUDING POWER WIRING REQUIRED FOR CONTROL PANELS, DEVICES, ETC.) NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK. WIRING IN HVAC PLENUM SPACES SHALL BE INSTALLED ACCORDING TO CODE REQUIREMENTS.
- UNLESS NOTED OTHERWISE, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED WITH THE EQUIPMENT IT SERVES AND INSTALLED BY THE MECHANICAL CONTRACTOR. MOTOR STARTERS FOR HVAC EQUIPMENT SHALL BE FURNISHED WITH THE MOTOR OR APPARATUS WHICH IT OPERATES. MOTOR STARTER INSTALLATION SHALL BE BY THE DIVISION 16 CONTRACTOR.

#### MECHANICAL SPECIFICATION NOTES

- ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE 2015 INTERNATIONAL MECHANICAL CODE, THE 2015 INTERNATIONAL BUILDING CODE, THE 2009 INTERNATIONAL ENERGY CONSERVATION CODE, NFPA 90A, 96, 101, UNDERWRITERS LABORATORIES (OR ETL) AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- IF ANY OF THE GOVERNING CODES ARE UPDATED, CHANGED, AND/OR MODIFIED AFTER THE SUBMITAL OF THE DRAWINGS TO THE OWNER AND/OR ARCHITECT AND PRIOR TO THE ISSUANCE OF A BUILDING PERMIT, THEN THE DRAWINGS MUST BE RESUBMITTED TO THE ENGINEER FOR REVIEW, REEXAMINATION AND/OR REEVALUATION.
- CEILING RETURN AND EXHAUST AIR GRILLES PER OWNER SELECTION
- ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE OWNER TO SUITE HIS OPERATING CONDITIONS. WORK IN ALL AREAS SHALL BE PERFORMED IN ACCORDANCE WITH THE OWNER'S REQUIREMENTS.
- ANY EXISTING WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THE MECHANICAL WORK SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING CONDITIONS.



**SHEET LIST** SHEET NAME SHEET NUMBER M1.0 MECHANICAL PLAN EB1.0 ELECTRICAL GENERAL NOTES EB2.0 E0.1 ELECTRICAL NOTES E1.0 ELECTRICAL SITE PLAN E2.0 **ELECTRICAL LIGHTING DETAILS** E3.0 ELECTRICAL SCHEDULE P1.0 PLUMBING GENERAL NOTES P1.1 PLUMBING WASTE & WATER PLAN P2.0

ELECTRICAL POWER & LIGHTING PLAN

**DESIGN REVIEW** 

REVISIONS MARK DATE DESCRIPTION

1403-1405-11 2/25/2019 12:29:47 PM Date Printed Date Issued 12/11/2018

Designed By Checked by

CONSTRUCTION

FOR

As indicated MECHANICAL PLAN

MECHANICAL PLAN
1/2" = 1'-0"

#### **ELECTRICAL MATERIALS AND** WORKMANSHIP SPECIFICATIONS

. MATERIALS:

ALL MATERIALS FURNISHED SHALL BE NEW, CONFORM TO U. L. AND NEMA REQUIREMENTS AND SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY ENGINEER.

A. CONDUCTORS: COPPER, TYPE SUITABLE FOR THE APPLICATION. COLOR CODED: 240/120V 1-PHASE: BLACK AND RED FOR UNGROUNDED CONDUCTORS, WHITE FOR GROUNDED CONDUCTOR, GREEN FOR GROUNDING CONDUCTOR. B. PANELBOARDS/LOADCENTERS, CIRCUIT BREAKERS,

DISCONNECT SWITCHES, AND OTHER ELECTRICAL EQUIPMENT SHALL BE BY EATON CORPORATION (CUTLER HAMMER), SQUARE D, SIEMENS, OR GENERAL ELECTRIC. ALL PROVIDED SHALL BE OF THE SAME MANUFACTURER.

C. DISCONNECT SWITCHES: GENERAL DUTY, HORSEPOWER RATED AND QUICK-MAKE/QUICK-BREAK: CUTLER HAMMER, SIEMENS, OR SQUARE D. SIZE OF DISCONNECTS FOR MOTOR DRIVEN EQUIPMENT SHALL BE BASED UPON FINAL EQUIPMENT SIZES SELECTED.

D. D.RACEWAY AND FITTINGS: EMT FOR ALL FEEDER AND BRANCH CIRCUITS, EXCEPT MC CABLE MAY BE USED AS AN OPTION. EMT FITTINGS SHALL BE STEEL, "RAIN-TIGHT", HEX-NUT EXPANSION GLAND TYPE. RACEWAYS SHALL BE RUN PARALLEL OR AT RIGHT ANGLES TO STRUCTURE. FINAL CONNECTIONS FOR VIBRATING EQUIPMENT SHALL BE WITH LIQUIDTIGHT FLEXIBLE METAL CONDUIT. TWO-PIECE STEEL SURFACE RACEWAY (WIREMOLD OR APPROVED EQUAL) SHALL BE USED IN EXPOSED FINISHED AREAS WHERE EXPOSED WIRING IS REQUIRED. ALL STUB-UPS SHALL BE

E. BOXES: GALVANIZED SHEET STEEL RECEPTACLES AND SWITCHES:

SPECIFICATION GRADE.

G. GROUNDING: PER NEC ARTICLE 250.

UNITSTRUT STRUCTURAL SUPPORTS. FIRESTOPPING: AN APPROVED FIRESTOPPING SYSTEM SHALL BE USED TO SEAL PENETRATIONS FOR ELECTRICAL AND COMMUNICATIONS WIRING AND/CONDUITS THROUGH FIRE-RATED

H. SUPPORTING MATERIALS: "CADDY" TYPE FASTENERS;

PARTITIONS. J. ENCLOSURE TYPES SHALL BE SUITABLE FOR THE LOCATION; NEMA I FOR INDOOR AND NEMA 3R FOR OUTDOOR UNLESS

K. WHEREVER ON THE ELECTRICAL DRAWINGS THE WORD "PROVIDE" IS USED IT SHALL BE INFERRED TO MEAN "FURNISH AND INSTALL", UNLESS NOTED OTHERWISE.

2. WORKMANSHIP:

NOTED OTHERWISE.

A. IDENTIFICATION: COLOR CODE CONDUCTORS PER CODE REQUIREMENTS. PANELBOARD SHALL BE PROVIDED WITH LAMINATED PLASTIC NAMEPLATE ENGRAVED WITH NAME OF PANEL, VOLTAGE, AMPERE RATING/TYPE FAULT CURRENT RATING, DATE, AND FEEDER ORIGINATION. NAMEPLATE SHALL BE SCREWED AND GLUED TO PANEL.

B. EQUIPMENT FURNISHED BY SCE#G: UNDERGROUND LATERAL TO CUSTOMER FURNISHED GROUP METERING CENTER WITH METER BASES.

C. ALL ITEMS AND EQUIPMENT SERVED ELECTRICALLY SHALL BE CONNECTED FOR A COMPLETE AND SATISFACTORY OPERATING ELECTRICAL SYSTEM AND PROPER OPERATION OF CONNECTED EQUIPMENT. THE SYSTEM SHALL BE FREE OF IMPROPER GROUNDS, SHORT OR OPEN CIRCUITS AND BE TESTED PRIOR TO ENERGIZING THE SYSTEM. ANY DEFECTS REVEALED BY TESTING SHALL BE CORRECTED.

D. WORKMANSHIP SHALL BE OF HIGH QUALITY BY PROPERLY SUPERVISED TRADESMEN. WHAT MIGHT BE CONSIDERED USUAL OR CUSTOMARY UNDER OTHER CONTRACTS SHALL NOT HAVE ANY BEARING ON WORK DONE UNDER THIS CONTRACT.

3. CODES:

THE WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NFPA 70), LATEST EDITION RECOGNIZED BY THE CITY OF CHARLESTON, COUNTY, AND ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.

4. GENERAL:

A. COORDINATE LOCATIONS OF LIGHTING SWITCHES WITH DOOR SWINGS AS SHOWN ON THE ARCHITECTURAL PLAN. B. SEE ARCHITECTURAL FOR EXACT BUILDING DIMENSIONS AND DETAILS. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT TO BE SCALED. CONTRACTOR SHALL FIELD VERIFY ALL

C. ALL ELECTRICAL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.

D. EXISTING CONDITIONS SHALL BE FIELD VERIFIED TO DETERMINE EXACT EXTENT OF WORK TO BE PERFORMED. E. VERIFY ACTUAL EQUIPMENT SELECTED TO BE INSTALLED WITH

ALL OTEHR DISCIPLINES AND THE OWNER. 5. FOR ALL ADDITIONAL INFORMATION REFER TO E-O. I BY

DIMENSIONS AND CLEARANCES.

BLACKBURN ELECTRICAL

ICAL LEGEND		
		EMERGENCY LIGHT WITH BATTERY PACK
CLE, DUPLEX, HALF HOT	$\boxtimes$	EXIT LIGHT, WITH BATTERY PACK. CEILING MTD.
CLE, DUPLEX, WEATHERPROOF	H	WALL MOUNTED LIGHT FIXTURE
	<del>-</del>	RECESSED LIGHT FIXTURE
CLE, 240V, 3 WIRE, RATING NOTED		CEILING MOUNTED LIGHT FIXTURE
		CEILING EXHAUST FAN
		LED CEILING LIGHT FIXTURE
CLE, DUPLEX, FLOOR MTD		CEILING FAN W/ LIGHT FIXTURE
125V, 20A, WALL MOUNTED	<b>—</b>	BRANCE CIRCUIT, MARKS = # OF CONDUCTORS
AY SWITCH, WALL MOUNTED	\$05	OCCUPANY SENSOR WALL SWITCH
AY SWITCH, WALL MOUNTED	H	OUTDOOR SCONCE, WET LOCATION
SWITCH, WALL MOUNTED	J	JUNCTION BOX
(UP		
	CLE, DUPLEX, WALL MTD TO BOTTOM  CLE, DUPLEX, HALF HOT  CLE, DUPLEX, WEATHERPROOF  CLE, DUPLEX, GROUND TERRUPTER  CLE, 240V, 3 WIRE, RATING NOTED  CLE, DUPLEX, WALL MTD TO BOTTOM  CLE, DUPLEX, WALL MTD, 42" AFF OM, GROUND FAULT INTERRUPTER  CLE, DUPLEX, FLOOR MTD  1 25V, 20A, WALL MOUNTED  AY SWITCH, WALL MOUNTED  SWITCH, WALL MOUNTED	CLE, DUPLEX, WALL MTD TO BOTTOM  CLE, DUPLEX, HALF HOT  CLE, DUPLEX, WEATHERPROOF  CLE, DUPLEX, GROUND TERRUPTER  CLE, 240V, 3 WIRE, RATING NOTED  CLE, DUPLEX, WALL MTD TO BOTTOM  CLE, DUPLEX, WALL MTD TO BOTTOM  CLE, DUPLEX, WALL MTD, 42" AFF OM, GROUND FAULT INTERRUPTER  CLE, DUPLEX, FLOOR MTD  125V, 20A, WALL MOUNTED  AY SWITCH, WALL MOUNTED  SWITCH, WALL MOUNTED  SWITCH, WALL MOUNTED

#### **LUMINAIRE SCHEDULE PER UNIT**

SYM	DESCRIPTION	NO. OF FIXTURE(S)	NO. OF LAMPS	WATTS	VOLTS	TYPE LAMP	MOUNTING	MANUFACTURER	CATALOG NO.	NOTES
А	CEILING MOUNTED	6	I	30	120	LED/ INCAND.	CEILING MTD	SPEC BY OTHERS		2
В	WALL MOUNTED	2	1	32	120	LED/ INCAND.	WALL MTD	SPEC BY OTHERS		2
EF	EXHAUST FAN	4	2	80	120	-	CEILING MTD	SPEC BY OTHERS		2
EM	EMERGENCY LIGHT	3	2	5	140	LED	WALL SURFACE ABOVE DOOR	DUAL-LITE	CVT3RW-3	1, 2
EX	EXIT LIGHT	2	2	5	140	LED	WALL SURFACE ABOVE DOOR	DUAL-LITE	CV3REW	1, 2
С	EXTERIOR LIGHT		l	15	120	LED	WALL MTD	SPEC BY OTHERS		1,2,3

#### NOTES

- I. EMERGENCY BATTERY PACK.
- 2. EQUALS BY FIXTURE APPROVED BY OWNER/ARCHITECT AND ENGINEER APPROVAL. 3. PHOTO CELL

#### **SPECIAL WIRING NOTE**

. PROVIDE SLEEVES AND APPROVED FIRE SEALS FOR ALL CONDUITS THAT PENETRATE WALL OR CEILINGS.

#### **GENERAL NOTES**

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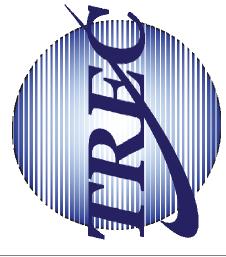
# **SPECIAL LIGHTING NOTE**

LUMINARIES, EMERGENCY LIGHT UNITS AND LIGHTED EXIT SIGNS IN EACH CORRIDOR SHALL BE CONNECTED TO THE SAME LIGHTED BRANCH CIRCUIT. SWITCHING SHALL BE FROM BREAKER IN THE RESPECTIVE PANEL

SHEET LIST SHEET NUMBER SHEET NAME MECHANICAL PLAN M1.0 EB1.0 ELECTRICAL GENERAL NOTES EB2.0 **ELECTRICAL POWER & LIGHTING PLAN** E0.1 ELECTRICAL NOTES E1.0 ELECTRICAL SITE PLAN E2.0 ELECTRICAL LIGHTING DETAILS E3.0 ELECTRICAL SCHEDULE P1.0 PLUMBING GENERAL NOTES P1.1 PLUMBING WASTE & WATER PLAN P2.0 RISERS

**DESIGN REVIEW** 

ENGINEERING Consultants, INC. No. 3624



ARCH

BOUNDARY LD TOWN NE BLUFFT

REVISIONS MARK DATE DESCRIPTION

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TREC No.	1403-1405-11
Date Printed	2/25/2019 12:29:44 PM
Date Issued	12/11/2018

Designed By Checked by

EB1.0

ELECTRICAL GENERAL NOTES

CONSTRUCTION

Approved by

FOR

#### **ELECTRICAL SPECIFICATION NOTES**

I. ALL WORK SHALL CONFORM TO LOCAL CODES.

2. CONDUCTORS: COPPER WITH THW OR THWN INSULATION UNLESS OTHERWISE NOTED.

3. WIRE METHODS: THW OR THWN IN CONDUIT OR MC CABLE.

4. RACEWAYS: ABOVE SLAB OR GRADE:

INTERIOR: EMT WITH STEEL COMPRESSION OR SET SCREW FITTING. EXTERIOR: EMT WITH STEEL COMPRESSION FITTINGS AND SEALTITE WITH COMPATIBLE FITTINGS.

5. RACEWAYS BELOW SLAB OR GRADE: SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS AND FITTINGS. USE GALVANIZED STEEL ELBOWS ON 1-1/2" AND LARGER CONDUIT.

6. PROVIDE GROUNDING CONDUCTORS IN ALL CONDUIT AND

7. DEVICES SHALL BE SPECIFICATION GRADE IVORY COLOR, UNLESS 15. JUNCTION AND OUTLET BOXES, INTERIOR: GALVANIZED STEEL. NOTED OTHERWISE. DEVICE COVER PLATES SHALL BE SMOOTH PLASTIC TO MATCH DEVICE COLOR.

8. DISCONNECT SWITCHES:

OUTDOOR: NEMA 3R, HEAVY DUTY RATINGS AS NOTED. INDOOR: GENERAL DUTY NEMA I, RATINGS AS NOTED.

9. PANELBOARD(S):

INDOOR: NEMA I WITH PLATED ALUMINUM OR COPPER BUSSES ARRANGED FOR DISTRIBUTED PHASE CONNECTIONS, FULL NEUTRAL BUS, ISOLATED GROUND BAR, PLUG-IN BRANCH AUTOMATIC CIRCUIT BREAKERS. QUANTITY, POLES, TRIP

RATING SHOWN. OUTDOOR: SAME AS INDOOR, EXCEPT IN NEMA 3R ENCLOSURE

IO. LUMINARIES SHALL BE SUPPLIED COMPLETE WITH LAMPS AND ALL NECESSARY HANGERS, HARDWARE AND TRIM.

I I . INSTALL TYPEWRITTEN CIRCUIT DIRECTORY ON EACH PANELBOARD COVER INTERIOR SHOWING THE "AS WIRED" CONDITION, AFTER WIRING IS COMPLETE.

12. COORDINATE WITH UTILITY COMPANY AS REQUIRED FOR SERVICE CONNECTION AND METER LOCATION. TO BEGINNING: BEFORE INSTALLATION.

13. IF EQUIPMENT SELECTED REQUIRES SPECIAL CIRCUIT BREAKER OR FUSE PROTECTION, OTHER THAN SHOWN, CONTRACTOR SHALL SUPPLY AND INSTALL IT.

14. EQUIPMENT CONNECTIONS SHALL BE MADE WITH SHORT SECTION OF FLEXIBLE CONDUIT (SEALTITE IN EXTERIOR LOCATIONS) USING COMPATIBLE FITTINGS.

EXTERIOR: CAST ALLOY

I G. NOTIPY THE UTILITIES PROTECTION CENTER AT LEAST THREE BUSINESS DAYS PRIOR TO BEGINNING:

I. EARTH EXCAVATION OR DIGGING WORK. 2. WORK WHICH POTENTIALLY COMES WITHIN 10' OF ANY OVERHEAD HIGH VOLTAGE LINE.

17. NOTIFY ALL RESPECTIVE UTILITY COMPANY(IES) WHOSE LINES ARE ROUTED THROUGH, CONNECTED TO, OR ARE IN 10' PROXIMITY OF CONSTRUCTION SITE.

18. ELECTRICAL CONTRACTOR TO REVIEW RECEPTACLE PLACEMENT WITH OWNER

#### ELECTRICAL LEGEND

RECEPTACLE, DUPLEX, WALL MTD 16" AFF TO BOTTOM

RECEPTACLE, DUPLEX, HALF HOT

RECEPTACLE, DUPLEX, WEATHERPROOF

RECEPTACLE, DUPLEX, GROUND FAULT INTERRUPTER

RECEPTACLE, 240V, 3 WIRE, RATING NOTED

RECEPTACLE, DUPLEX, WALL MTD 42" AFF TO BOTTOM

GFI RECEPTACLE, DUPLEX, WALL MTD, 42" AFF TO BOTTOM, GROUND FAULT INTERRUPTER

RECEPTACLE, DUPLEX, FLOOR MTD

SWITCH, 125V, 20A, WALL MOUNTED

THREE-WAY SWITCH, WALL MOUNTED

FOUR-WAY SWITCH, WALL MOUNTED

DIMMER SWITCH, WALL MOUNTED

FIRE \$ SMOKE DETECTOR, CEILING

MOUNTED W/ BATTERY PACK

FIRE EXTINGUISHER

EMERGENCY LIGHT WITH BATTERY PACK

EXIT LIGHT, WITH BATTERY PACK.

EXTERIOR FLOOD LIGHT, WALL MTD.

WALL MOUNTED LIGHT FIXTURE

RECESSED LIGHT FIXTURE

WALL MOUNTED WATER PROOF

CEILING MOUNTED LIGHT FIXTURE

LIGHT FIXTURE W/ BATTERY PACK

CEILING FAN W/ LIGHT FIXTURE

CEILING EXHAUST FAN

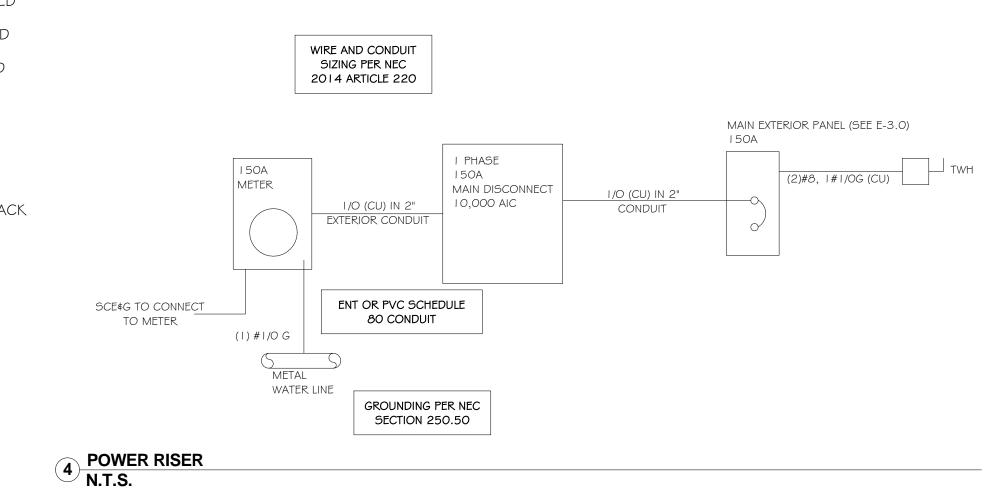
LED CEILING LIGHT FIXTURE

#### **GENERAL NOTE:**

DRAWING(S) ARE <u>SCHEMATIC</u>, CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL DEVICE LOCATIONS AND INTERCONNECT ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONFIGURATION AND REQUIREMENTS.

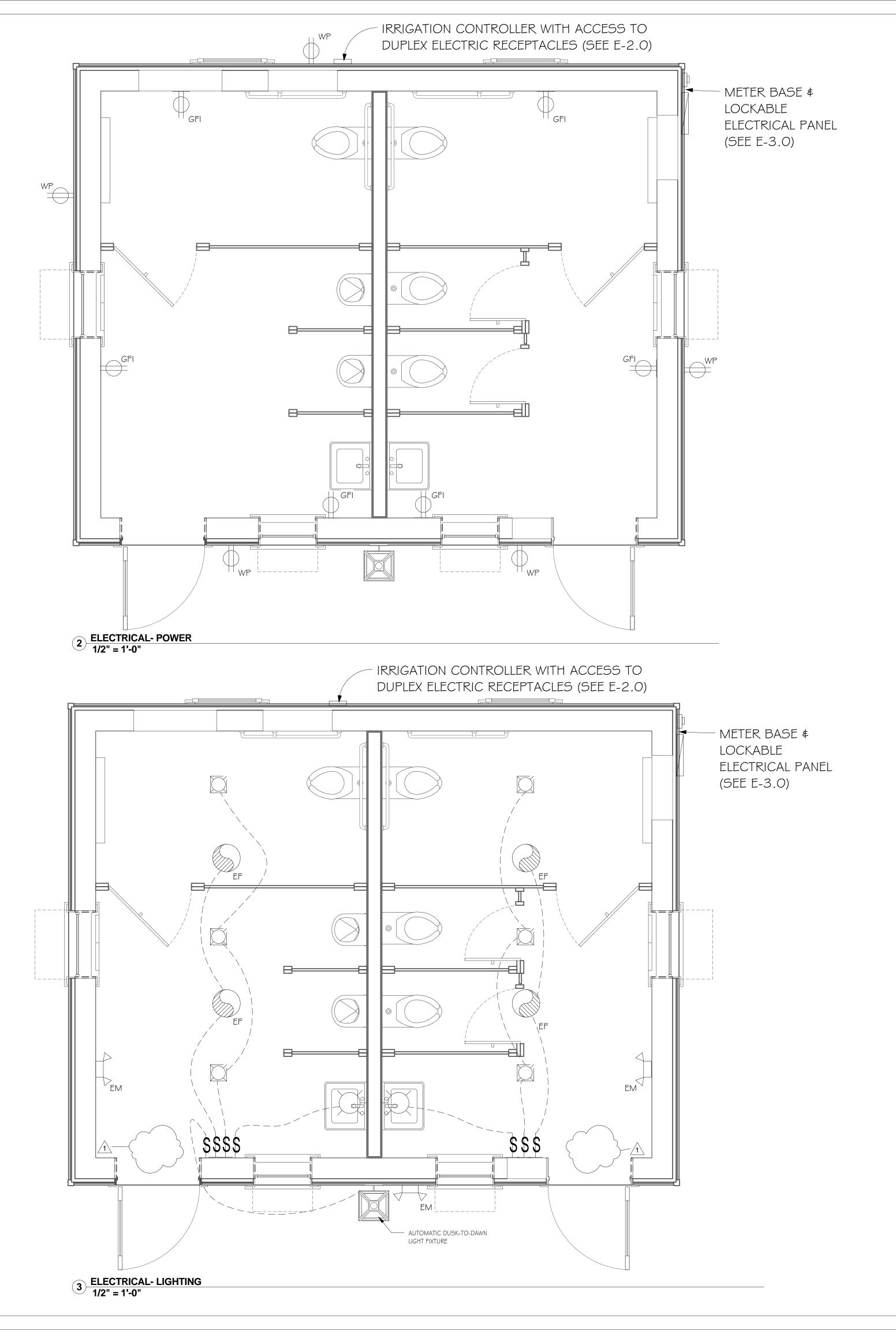
#### POWER NOTES

I . SEAL ALL CONDUITS THAT PENETRATE WALL OR



DESCRIPTION	NO. OF FIXTURE(S)	NO. OF LAMPS	WATTS	VOLTS	TYPE LAMP	MOUNTING	MANUFACTURER	CATALOG NO.	NOTES				
CEILING MOUNTED	6	I	30	120	LED/ INCAND.	CEILING MTD	SPEC BY OTHERS		2				
WALL MOUNTED	2	1	32	120	LED/ INCAND.	WALL MTD	SPEC BY OTHERS		2				
EXHAUST FAN	4	2	80	120	-	CEILING MTD	SPEC BY OTHERS		2				
EMERGENCY LIGHT	3	2	5	140	LED	WALL SURFACE ABOVE DOOR	DUAL-LITE	CVT3RW-3	1,2				
EXTERIOR LIGHT	I	I	15	120	LED	WALL MTD ADOVE DOOR	SPEC BY OTHERS		1,2, 3				
	DESCRIPTION  CEILING MOUNTED  WALL MOUNTED  EXHAUST FAN  EMERGENCY LIGHT	DESCRIPTION  NO. OF FIXTURE(S)  CEILING MOUNTED  6  WALL MOUNTED  2  EXHAUST FAN  4  EMERGENCY LIGHT  3	DESCRIPTION  NO. OF FIXTURE(S)  CEILING MOUNTED  6  I  WALL MOUNTED  2  I  EXHAUST FAN  4  2  EMERGENCY LIGHT  3  2	DESCRIPTION  NO. OF FIXTURE(S)  CEILING MOUNTED  G  I  30  WALL MOUNTED  2  EXHAUST FAN  4  2  80  EMERGENCY LIGHT  3  2  5	DESCRIPTION         NO. OF FIXTURE(S)         NO. OF LAMPS         WATTS         VOLTS           CEILING MOUNTED         6         1         30         120           WALL MOUNTED         2         1         32         120           EXHAUST FAN         4         2         80         120           EMERGENCY LIGHT         3         2         5         140	DESCRIPTION         NO. OF FIXTURE(S)         NO. OF LAMPS         WATTS         VOLTS         TYPE LAMP           CEILING MOUNTED         6         1         30         120         LED/ INCAND.           WALL MOUNTED         2         1         32         120         LED/ INCAND.           EXHAUST FAN         4         2         80         120         -           EMERGENCY LIGHT         3         2         5         140         LED	DESCRIPTION    NO. OF FIXTURE(S)   NO. OF LAMPS   WATTS   VOLTS   TYPE LAMP   MOUNTING	DESCRIPTION  FIXTURE(S)  LAMPS WATTS VOLTS TYPE LAMP MOUNTING MANUFACTURER  CEILING MOUNTED  G  I  30  I 20  LED/ INCAND.  CEILING MTD  SPEC BY OTHERS  WALL MOUNTED  2  I  32  I 20  LED/ INCAND.  WALL MTD  SPEC BY OTHERS  EXHAUST FAN  4  2  80  I 20  -  CEILING MTD  SPEC BY OTHERS  EMERGENCY LIGHT  3  2  5  I 40  LED  WALL SURFACE ABOVE DOOR	DESCRIPTION    NO. OF FIXTURE(S)   NO. OF FIXT				

I. EMERGENCY BATTERY PACK. 2. EQUALS BY FIXTURE APPROVED BY OWNER/ARCHITECT AND ENGINEER APPROVAL. 3. PHOTO CELL



**DESIGN REVIEW** ENGINEEMING CONSULTANTS, INC. PMD. 3624

REVISIONS MARK DATE DESCRIPTION
1 3-12-19 ARCHITECT'S
CHANGES

1403-1405-11 Date Printed

CONSTRUCTION

FOR

3/12/2019 11:52:12 AM Date Issued 12/11/2018 Designed By Checked by

**ELECTRICAL POWER & LIGHTING** 

#### **ELECTRICAL SPECIFICATION NOTES**

I. ALL WORK SHALL CONFORM TO LOCAL CODES.

2. CONDUCTORS: COPPER WITH THW OR THWN INSULATION UNLESS OTHERWISE NOTED.

3. WIRE METHODS: THW OR THWN IN CONDUIT OR MC CABLE.

4. RACEWAYS: ABOVE SLAB OR GRADE:

INTERIOR: EMT WITH STEEL COMPRESSION OR SET SCREW FITTING. EXTERIOR: EMT WITH STEEL COMPRESSION FITTINGS AND SEALTITE WITH COMPATIBLE FITTINGS.

5. RACEWAYS BELOW SLAB OR GRADE: SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS AND FITTINGS. USE GALVANIZED STEEL ELBOWS ON 1-1/2" AND LARGER CONDUIT.

6. PROVIDE GROUNDING CONDUCTORS IN ALL CONDUIT AND

7. DEVICES SHALL BE SPECIFICATION GRADE IVORY COLOR, UNLESS 15. JUNCTION AND OUTLET BOXES, INTERIOR: GALVANIZED STEEL. NOTED OTHERWISE. DEVICE COVER PLATES SHALL BE SMOOTH PLASTIC TO MATCH DEVICE COLOR.

8. DISCONNECT SWITCHES:

OUTDOOR: NEMA 3R, HEAVY DUTY RATINGS AS NOTED. INDOOR: GENERAL DUTY NEMA I, RATINGS AS NOTED.

9. PANELBOARD(S):

INDOOR: NEMA I WITH PLATED ALUMINUM OR COPPER BUSSES ARRANGED FOR DISTRIBUTED PHASE CONNECTIONS, FULL NEUTRAL BUS, ISOLATED GROUND BAR, PLUG-IN BRANCH AUTOMATIC CIRCUIT BREAKERS. QUANTITY, POLES, TRIP

RATING SHOWN. OUTDOOR: SAME AS INDOOR, EXCEPT IN NEMA 3R ENCLOSURE

IO. LUMINARIES SHALL BE SUPPLIED COMPLETE WITH LAMPS AND ALL NECESSARY HANGERS, HARDWARE AND TRIM.

I I . INSTALL TYPEWRITTEN CIRCUIT DIRECTORY ON EACH PANELBOARD COVER INTERIOR SHOWING THE "AS WIRED" CONDITION, AFTER WIRING IS COMPLETE.

12. COORDINATE WITH UTILITY COMPANY AS REQUIRED FOR SERVICE CONNECTION AND METER LOCATION. TO BEGINNING: BEFORE INSTALLATION.

13. IF EQUIPMENT SELECTED REQUIRES SPECIAL CIRCUIT BREAKER OR FUSE PROTECTION, OTHER THAN SHOWN, CONTRACTOR SHALL SUPPLY AND INSTALL IT.

14. EQUIPMENT CONNECTIONS SHALL BE MADE WITH SHORT SECTION OF FLEXIBLE CONDUIT (SEALTITE IN EXTERIOR LOCATIONS) USING COMPATIBLE FITTINGS.

EXTERIOR: CAST ALLOY

I 6. NOTIPY THE UTILITIES PROTECTION CENTER AT LEAST THREE BUSINESS DAYS PRIOR TO BEGINNING:

I. EARTH EXCAVATION OR DIGGING WORK. 2. WORK WHICH POTENTIALLY COMES WITHIN 10' OF ANY OVERHEAD HIGH VOLTAGE LINE.

17. NOTIFY ALL RESPECTIVE UTILITY COMPANY(IES) WHOSE LINES ARE ROUTED THROUGH, CONNECTED TO, OR ARE IN 10' PROXIMITY OF CONSTRUCTION SITE.

18. ELECTRICAL CONTRACTOR TO REVIEW RECEPTACLE PLACEMENT WITH OWNER

#### ELECTRICAL LEGEND

RECEPTACLE, DUPLEX, WALL MTD

16" AFF TO BOTTOM RECEPTACLE, DUPLEX, HALF HOT

RECEPTACLE, DUPLEX, WEATHERPROOF

RECEPTACLE, DUPLEX, GROUND

FAULT INTERRUPTER

RECEPTACLE, 240V, 3 WIRE, RATING NOTED

RECEPTACLE, DUPLEX, WALL MTD 42" AFF TO BOTTOM

GFI RECEPTACLE, DUPLEX, WALL MTD, 42" AFF

TO BOTTOM, GROUND FAULT INTERRUPTER RECEPTACLE, DUPLEX, FLOOR MTD

SWITCH, 125V, 20A, WALL MOUNTED

THREE-WAY SWITCH, WALL MOUNTED

FOUR-WAY SWITCH, WALL MOUNTED

DIMMER SWITCH, WALL MOUNTED

FIRE \$ SMOKE DETECTOR, CEILING

MOUNTED W/ BATTERY PACK

FIRE EXTINGUISHER

EMERGENCY LIGHT WITH BATTERY PACK

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EXTERIOR FLOOD LIGHT, WALL MTD.

WALL MOUNTED LIGHT FIXTURE

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CEILING MOUNTED LIGHT FIXTURE WALL MOUNTED WATER PROOF

LIGHT FIXTURE W/ BATTERY PACK

CEILING EXHAUST FAN

LED CEILING LIGHT FIXTURE

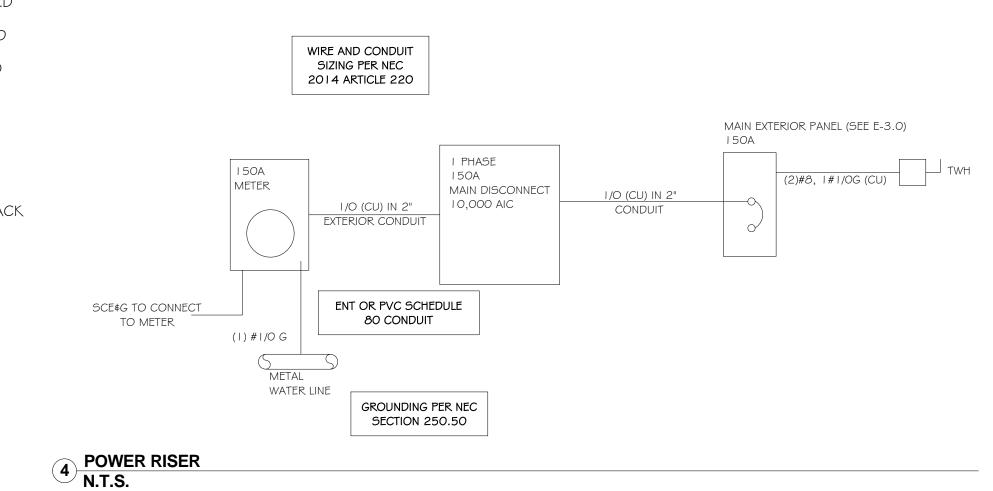
CEILING FAN W/ LIGHT FIXTURE

#### **GENERAL NOTE:**

DRAWING(S) ARE <u>SCHEMATIC</u>, CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL DEVICE LOCATIONS AND INTERCONNECT ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONFIGURATION AND REQUIREMENTS.

#### POWER NOTES

I . SEAL ALL CONDUITS THAT PENETRATE WALL OR



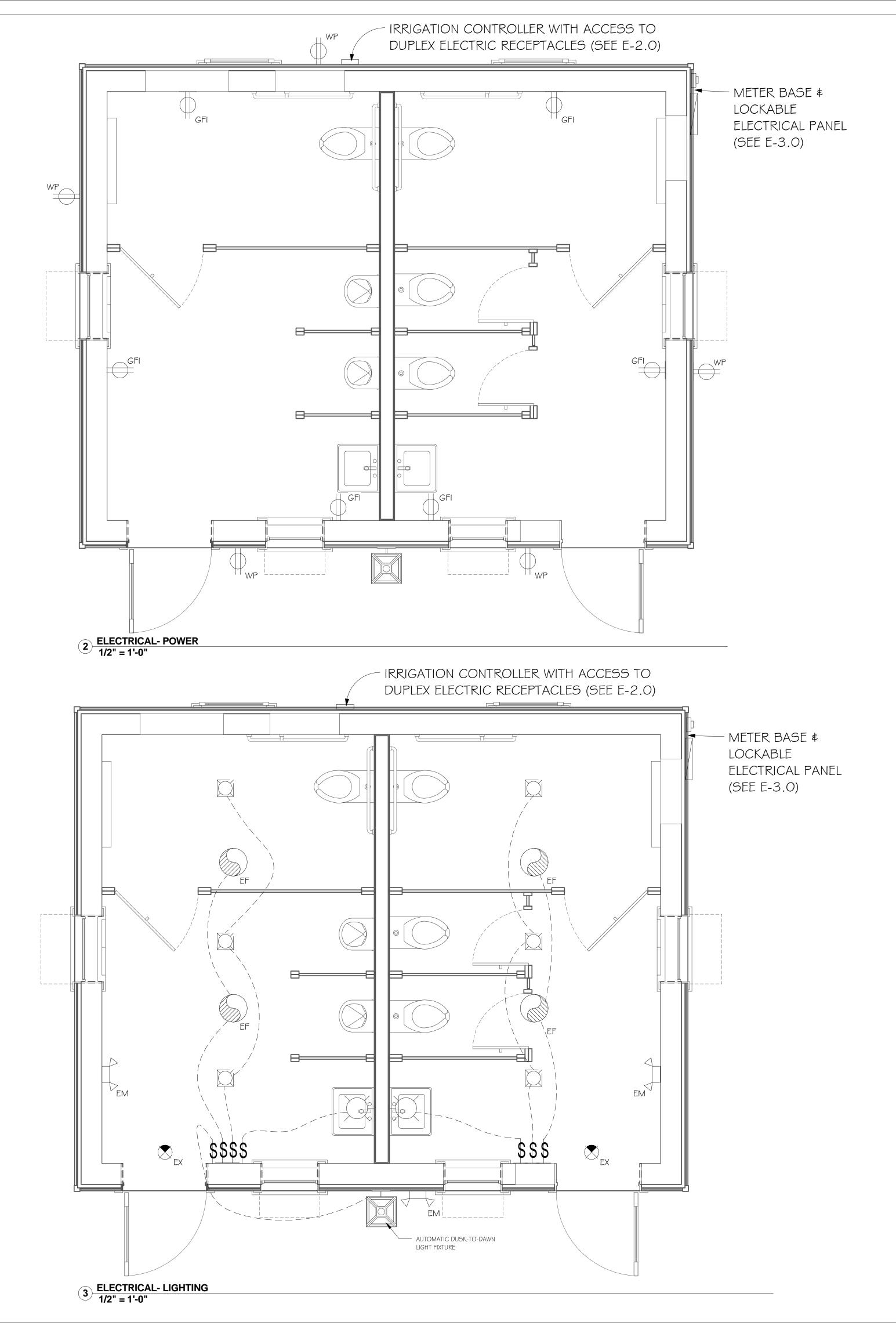
L	LUMINAIRE SCHEDULE PER UNIT														
SYM	DESCRIPTION	NO. OF FIXTURE(S)	NO. OF LAMPS	WATTS	VOLTS	TYPE LAMP	MOUNTING	MANUFACTURER	CATALOG NO.	NOTES					
A	CEILING MOUNTED	6	ı	30	120	LED/ INCAND.	CEILING MTD	SPEC BY OTHERS		2					
В	WALL MOUNTED	2	1	32	120	LED/ INCAND.	WALL MTD	SPEC BY OTHERS		2					
EF	EXHAUST FAN	4	2	80	120	-	CEILING MTD	SPEC BY OTHERS		2					
EM	EMERGENCY LIGHT	3	2	5	140	LED	WALL SURFACE ABOVE DOOR	DUAL-LITE	CVT3RW-3	1, 2					
EX	EXIT LIGHT	2	2	5	140	LED	WALL SURFACE ABOVE DOOR	DUAL-LITE	CV3REW	1, 2					
С	EXTERIOR LIGHT	1	1	15	120	LED	WALL MTD	SPEC BY OTHERS		1,2,3					

NOTES

I. EMERGENCY BATTERY PACK.

2. EQUALS BY FIXTURE APPROVED BY OWNER/ARCHITECT AND ENGINEER APPROVAL.

3. PHOTO CELL



**DESIGN REVIEW** 

REVISIONS MARK DATE DESCRIPTION

1403-1405-11 2/25/2019 12:29:45 PM Date Printed 12/11/2018

Date Issued Designed By Checked by

CONSTRUCTION

FOR

**ELECTRICAL POWER & LIGHTING** 

**ELECTRICAL NOTES:** 

#### PART I - GENERAL

- A. Codes and Ordinances The entire installation shall be strictly in accordance with the latest version of the 2017 National Electrical Code, and amendments of the local governing body. B. Tests - Provide test of all systems to demonstrate proper operation. C. Provide maintenance and operational instructions for all equipment. All panel boards, disconnect switches, control cabinets, etc., shall be clearly marked with identification externally and internally for each circuit. D. The contractor shall schedule all required inspections. E. Provide materials and equipment that are products of manufacturers regularly engaged in the production of such products which are of equal material, design and workmanship. Products shall have been in satisfactory commercial or industrial use for 2 years prior to bid opening. Products manufactured more than 3 years prior to date of delivery to site shall not be used, unless specified otherwise. F. Lighting shall comply with asrhae 90.1 2007 where applicable. PART II - PRODUCTS A. As a minimum, meet requirements of UL, where UL standards are established for those items, and requirements of NFPA 70 for all materials, equipment, and devices.
- B. Light fixtures shall be as per plan. C. Switches (NEMA WD1,UL20) and receptacles (NEMA WD 1)shall be screw type side wire commercial grade and as per plan. Color selection by owner and may vary. E. Circuit Breaker and fused protected circuits shall be as per above referenced code. F. Outlet boxes and conduit boxes shall be metal, cadmium or zinc coated UL514a). G. Provide grounding conductors in all conduit. Hash marks on drawing do not include grounding conductor. K. Disconnects switches: NEMA KS1. enclosures - Indoor NEMA 1, Outdoor Heavy Duty NEMA 3R. Provide label indicating source and load. L. Panelboard is existing. Install a typewritten circuit directory on panel board cover interior, reflecting an "As Wired" condition after completion of wiring. Provide nameplate indicated name and feeder source. Circuit breakers shall match existing type with short rating as indicated. Multipole shall be provided with common trip single operating handle. M. Contractor to verify all circuit requirements with actual equipment provided.

#### PART III - EXECUTION

- A. Remove all manufacturers labels and clean all exposed fixtures and equipment.
- B. Replace all damaged fixtures and equipment.
- C. Adjust or calibrate all items of equipment to assure proper operation.

  D. Make all wiring connections in outlet or junction boxes.
- E. Nameplates: ATM D709, Provide laminated plastic nameplates for each equipment enclosure, relay, switch, and device; as specified or as indicated on the drawings. Identify the function and, when applicable, the position. Minimum size of nameplates:
- one by 2.5 inches. Lettering size and style: a minimum of 0.25 inch high normal block style. For panels indicate the panel fed from.
- F. Label all devices with permanent label indicating circuit and panel.



AMPERE

ABOVE FINISHED FLOOR

ALUMINUM

ONE CONDUCTOR 3/C THREE CONDUCTOR

CONDUIT

CABLE TELEVISION

CIRCUIT BREAKER

CKT CIRCUIT

CU COPPER DΙΑ DIAMETER

ENCASED BURIAL

EXHAUST FAN

EWCELECTRIC WATER COOLER

EXPLOSION PROOF

FIRE ALARM CONTROL PANEL

GF GROUND FAULT CIRCUIT INTERRUPTER

GROUND FAULT PROTECTION

HIGH PRESSURE SODIUM

ΗТ HE I GHT

HERTZ

JUNCTION BOX

LIGHT EMITTING DIODE

METERS

MILLIMETERS

MCB MAIN CASE BREAKER

MECHANICAL CONTROL PANEL

М.Н. MOUNTING HEIGHT

MAIN LUGS ONLY MLO

NATIONAL ELECTRICAL CODE

NON FUSED

NOT IN CONTRACT

NO. NUMBER

PHASE

STANDBY POWER SYSTEM

SWD SWITCHING DUTY

TIME CLOCK AND H-O-A SWITCH

UNLESS NOTED OTHERWISE U.N.O.

VOL T

VOLTAMPERE

VARIABLE AIR VOLUMN

VARIABLE SPEED DRIVE

WATTS

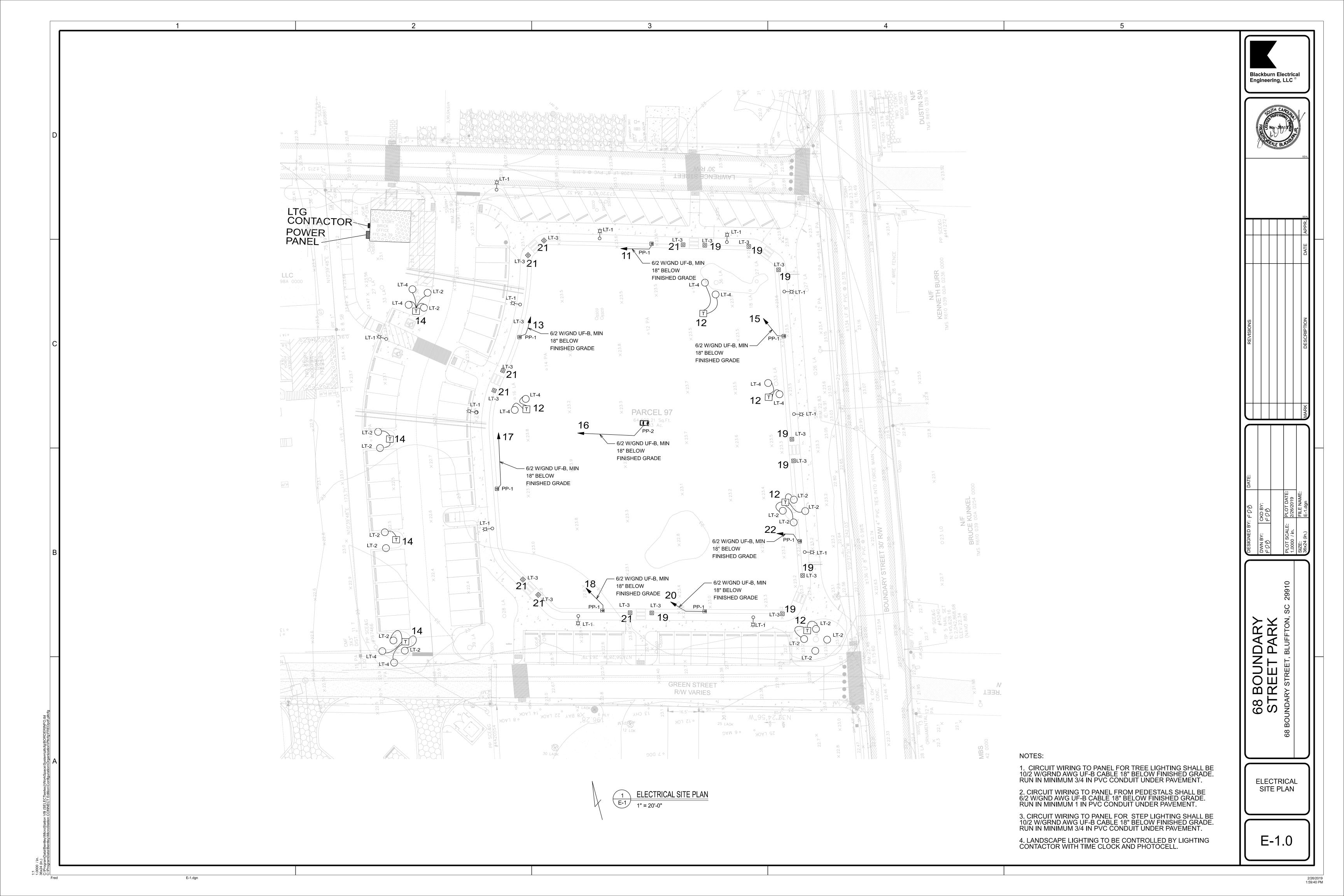
WATER HEATER WEATHER PROOF

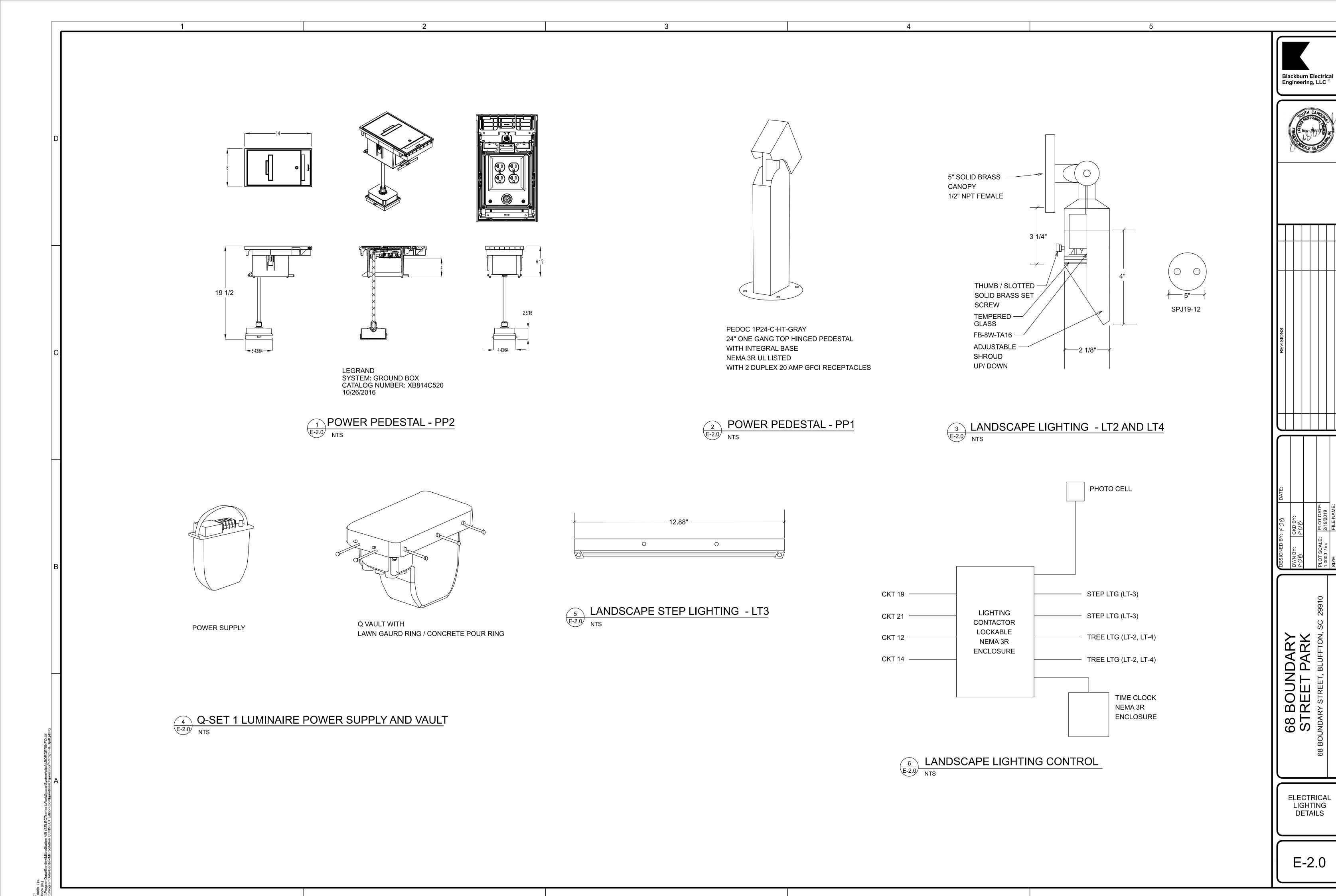
ELECTRICAL NOTES, LEGEND & ABBREVIATIONS

E-0.1

' 86 N

Blackburn Electrical Engineering, LLC ®





2/19/2

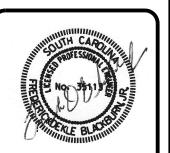
VOLTAGE: 24	0 / 120						PHASE:	1								WIRE: 3	<del></del>
BUS AMPS: 1	-						<b>DEVICE A</b>		.50 A	МСВ						NEMA: 3	
A.I.C RATING	: 10,000 A						MOUNTIN	G: SURF	ACE								
LOC	ATION DESCI	RIPTION		LOAD (KVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOA D TYPE	LOAD (KVA)		LOCATION DESCRIPTION			
	TWH (EXISTI	NG)		6.8	Н	40/2	1	A	2	20/1	Н	1.1		EXHAUS'	T FAN (E	EXISTING)	
	IVVII (L/IOII	140)		6.8	Н	40/2	3	В	4	20/1	В	1.1		RECEPTS (EXISTING)			
RE	CEPTS (EXIS	STING)		1.1	В	20/1	5	Α	6	20/1	А	0.7		LIGHTING (EXISTING)			
LIC	SHTING (EXIS	STING)		0.7	А	20/1	7	В	8	20/0	А	1.0		EXIT LIGH	HTING (E	XISTING)	
FIRE AL	ARM PANEL	(EXISTIN	G)	1.0	Н	20/1	9	Α	10	20/1	Α	1.0	ENE	RGENCY	LIGHTIN	IG (EXIST	NG)
POWE	R PEDESTA	LS (PP-1)		0.4	В	20/1	11	В	12	20/1	Α	0.1		TREE LIG	HTING (	LT2, LT4)	
POWE	R PEDESTA	LS (PP-1)	)	0.4	В	20/1	13	Α	14	20/1	Α	0.1		TREE LIG	HTING (	LT2, LT4)	
POWE	R PEDESTA	LS (PP-1)		0.4	В	20/1	15	В	16	20/1	В	0.4		GROUND BOX (PP-2)			
POWE	R PEDESTA	LS (PP-1)	)	0.4	В	20/1	17	Α	18	20/1	В	0.4	POWER PEDESTALS (PP-1)			)	
STI	EP LIGHTING	(LT-3)		0.1	Α	20/1	19	В	20	20/1	В	0.4	POWER PEDESTALS (PP-1)				
STI	EP LIGHTING	(LT-3)		0.1	Α	20/1	21	Α	22	20/1	В	0.4		POWER PEDESTALS (PP-1)			
IRRIGAT	ION SYSTEM	1 (EXISTIN	lG)	1.0	Н	20/1	23	В	24	20/1	Н	0.5		LIGHTIN	IG CONT	TACTOR	
	SPACE					20/1	25	Α	26	20/1					SPACE		
	SPACE					20/1	27	В	28	20/1					SPACE		
	SPACE					20/1	29	Α	30	20/1					SPACE		
	SPACE					20/1	31	A	32	20/1					SPACE		
	SPACE					20/1	33	В	34	20/1					SPACE		
	SPACE					20/1	35	A	36	20/1					SPACE		
	SPACE					20/1	37	A	38	20/1					SPACE		
	SPACE					20/1	39	В	40	20/1					SPACE		
	SPACE					,	41	A	42	,			SPACE				
				<u> </u>					WALYSIS	1							
Load	DECCD	IPTION		Conn.	Demand		2011 NEC		Load	DF	SCRIPTION	ON	Conn.	Demand		2011 NEC	
Туре				KVA	KVA		Reference		Туре				KVA	KVA	Reference		
A		iting		3.7	4.6		Table 220		E	1 -	Heating		0.0				
B C	кесер	tacles		5.4 0.0	5.4 0.0		Table 220 Table 220		F G		rgest Mot ther Moto		0.0         0.0         NEC Article 440           0.0         0.0         NEC Article 440				
D				0.0	0.0		Article 44		H	+	ther Load		17.2	17.2	INLC	AI UCIC T	10.7
	Connected Lo	ad	13.4	KVA	Notes:							CONNECT			KVA	109.3	A۱
	Connected Lo			KVA								AL DEMA				113.1	

	LIGHTING FIXTURE SCHEDULE													
TYPE	DESCRIPTION	MANUFACTURERER	WATTAGE	LAMP	VOLTAGE									
LT-1	POLE MOUNTED FIXTURE BY OTHERS	NOT IN CONTRACT	N/A	N/A	N/A									
LT-2	LOW VOLTAGE LANDSCAPE LIGHT TREE DOWNLIGHT	FOREVER BRIGHT SPJ-AL1-8W MBR / SPJ19-13	8	LED	12-15V									
LT-3	LOW VOLTAGE LANDSCAPE STEP LIGHT ( ADD / ALT)	VISTAPRO #4261 12" LENGTH, BRONZE OR WAC LIGHTING HARDSCAPE DUAL CCT AND INTEGRAL BRIGHTNESS CONTROL #7121-27/ (BZ) 12" LENGTH	6.5	LED	12V DC									
LT-4	LOW VOLTAGE LANDSCAPE LIGHT TREE DOWNLIGHT ( ADD / ALT)	FOREVER BRIGHT SPJ-AL1-8W MBR / SPJ19-13	8	LED	12-15V									

#### LIGHTING NOTES:

- 1. SEE SHEET E-2 FOR LIGHT FIXTURE DETAILS. PROVIDE ALL COMPONENTS AS RECOMMENDED BY VENDOR FOR INSTALLATION OF FIXTURES.
- 2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL NECESSARY COMPONENTS TO INSTALL LIGHT FIXTURES SHOWN ABOVE.
- 3. APPROVED EQUAL FIXTURES ARE ACCEPTABLE TO MEET THE INTENT, LIGHTING LEVELS, AND APPEARANCE OF THIS DESIGN.





				SEAL
				APPR.
				DATE
REVISIONS				DESCRIPTION
				MARK

DWN BY: CKD BY: F D B

PLOT SCALE: PLOT DATE: 2/19/2019

SIZE: FILE NAME: 36x24 (in.) E-3.dgn

68 BOUNDARY
STREET PARK
88 BOUNDARY STREET, BLUFFTON, SC 29910

ELECTRICAL SCHEDULES

E-3.0

۱.	ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2015 INTERNATIONAL PLUMBING CODE, 2015 INTERNATIONAL BUILDING CODE, STATE C
	SOUTH CAROLINA AMENDMENTS, AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
2.	IF ANY OF THE GOVERNING CODES ARE UPDATED, CHANGED, AND/OR MODIFIED
	AFTER THE SUBMITTAL OF THE DRAWINGS TO THE OWNER AND/OR ARCHITECT AND PRIOR TO THE ISSUANCE OF A BUILDING PERMIT, THEN THE DRAWINGS MUST BE RESUBMITTED TO THE ENGINEER FOR REVIEW, REEXAMINATION AND/OR
3.	REEVALUATION.  REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS C
	ALL PLUMBING FIXTURES.
4.	PLUMBING CONTRACTOR TO VERIFY ALL PLUMBING FIXTURES WITH ARCHITECT AND/OR OWNER BEFORE PROCUREMENT AND/OR INSTALLATION.
5.	WATER PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE (UNDERSIDE) OF CEILING INSULATION AND HEATED SIDE (INSIDE)
6	OF WALL INSULATION.  SANITARY AND DRAINAGE PIPING 2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM, PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT
7.	MINIMUM.  TOPS OF ALL FLOOR DRAINS AND CLEANOUTS SHALL BE SET FLUSH WITH FINISHE
8.	FLOOR.  TRAP PRIMERS ARE TO BE PROVIDED ON ALL FLOOR DRAINS AND HUB DRAINS. T  "A" AUTOMATIC TRAP PRIMERS ARE TO BE PROVIDED IN ALL REQUIRED LOCATION
9.	PLUMBING AND FIRE PROTECTION PIPING IS NOT TO BE INSTALLED IN ELECTRICAL ROOMS, CLOSETS, TELEPHONE ROOMS, OR ELEVATOR EQUIPMENT ROOMS EXCE PIPING SERVING THAT SPECIFIC ROOM.
10.	LOCATE ALL SECTIONAL OR MAIN CONTROL VALVES WITHIN 1'-O" FROM ACCESS
11.	PANELS, CEILING TILES, OR OTHER POINT OF ACCESS.  ALL COLDWATER, HOT WATER AND DRAIN PIPING AT HANDICAPPED FIXTURES SHAL
12.	BE INSULATED WITH HANDI-LAV GUARD MODELS 102 AND 105 INSULATION KITS.  PROVIDE SHOCK ABSORBERS SIZED PER PDI SPECIFICATIONS ON ALL DOMESTIC WATER LINES SERVING FLUSH VALVE FIXTURES, WASHING MACHINES SUPPLIES, P.
13.	STATIONS AND OTHER INSTALLATIONS WITH QUICK CLOSING VALVES.  PROVIDE A BASE CLEANOUT AT THE LOWEST LEVEL OF ALL SANITARY AND WASTE
14.	STACKS.  ALL SHOWER HEAD ARMS AND VALVES SHALL BE PROVIDED WITH ADDITIONAL
15.	BLOCKING AS REQUIRED AND RIGIDLY SECURED TO ADJACENT STRUCTURE.  ALL SHOWER HEADS SHALL BE INSTALLED WITH THE CENTER POINT OF THE SHOW!
16.	HEAD FACE LOCATED 6'-3" MINIMUM ABOVE THE TUB/SHOWER FINISHED SURFACE PROVIDE REDUCED PRESSURE BACKFLOW PREVENTORS AT ALL DOMESTIC WATER
16.	CONNECTIONS TO MECHANICAL EQUIPMENT, AS REQUIRED BY LOCAL CODE AND AUTHORITIES. BACKFLOW PREVENTORS ARE TO BE LOCATED WITH A MINIMUM OF 1'-0" CLEARANCE AT THE LOWEST POINT AND AT NO MORE THAN 5'-0" ABOVE
	FLOOR AT THE HIGHEST POINT OF THE DEVICE.
17.	PROVIDE MANUFACTURED EXPANSIONS DEVICE OR FABRICATED EXPANSION LOOF ON ALL PIPING SYSTEMS CROSSING BUILDING EXPANSION JOINTS.
18.	CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS A THE ELECTRICAL CONTRACTOR AND SHALL FURNISH EQUIPMENT WIRED FOR THE
19.	VOLTAGES SHOWN THEREIN.  ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC. INSTALLED IN HVAC PLENUM
	SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
20.	ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A MINIMUN PERIOD OF ONE-YEAR AFTER FINAL ACCEPTANCE.
21.	ALL PIPE PENETRATIONS OF FIRE AND/OR SMOKE RATED ASSEMBLIES SHALL BE FI STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M COMPANY, CP25 CAUL CS I 95 COMPOSITE PANEL, FS I 95 WRAP/SHRINK, TREMCO, HILTI, METACAULK, NELSON, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY MANUFACTURER
	FOR PARTICULAR APPLICATIONS, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS. ALSO, REFER TO DIVISION 7 – THERMAL AND MOISTURE PROTECTION.
22.	ALL VENT TRHU ROOF PENETRATIONS SHALL BE ROUTED TO TERMINATE AT THE LE VISIBLE LOCATION FROM THE ENTRY VIEW.
23.	WATER LINES INSIDE BUILDING:
	A. COPPER TYPE "L" WITH LEAD FREE SOLDER.  B. SCHEDULE 40 CPVC WITH SOLVENT JOINTS.
0.4	C.PEX WITH MANUFACTURER'S APPROVED CONNECTIONS.
24.	WATER LINES OUTSIDE BUILDING:  A. WATER METER TO 20' OUTSIDE BUILDING: SCHEDULE 40 PVC WITH SOLVENT JOINTS.
	B. 20' OUTSIDE BUILDING ENTRY: SCHEDULE 40 CPVC OR COPPER TYPE "L" WITH LEAD FREE SOLDER.
25.	WASTE AND VENT: SCHEDULE 40 PVC WITH DRAINAGE PATTERN FITTINGS AND SOLVENT WELDED JOINTS.
26.	PROVIDE SHUT-OFF VALVES AT FIXTURES.
27. 28.	EXPOSED FIXTURE TRIM SHALL BE CHROME PLATED.  CAULK/SEAL ALL FIXTURE MOUNTING AT COUNTER, WALL AND FLOOR AS APPLICAB
29.	LL FIXTURES AND EQUIPMENT SHALL BE PROVIDED WITH A UNION TYPE CONNECTION TO FACILITATE REMOVAL/SERVICE.
30.	INSULATE HOT WATER LINES FROM WATER HEATER THROUGHOUT SYSTEM WITH 3, FIBERGLASS PREFORM OF "FR" TYPE RUBBER OR POLYOLEFIN FLEXIBLE FOAM.  COORDINATE WITH UTILITY COMPANIES AS REQUIRED FOR SERVICE AND METER
32.	LOCATIONS.  NOTIFY THE UTILITIES PROTECTION CENTER AT LEAST THREE BUSINESS DAYS PRICE.
	TO BEGINNING:  A. EARTH EXCAVATION OR DIGGING WORK.  B. WORK WHICH POTENTIALLY COMES WITHIN 10' OF ANY OVERHEAD HIGH VOLTA
22	LINE.
33. 34.	GAS LINES (NATURAL):  NOTIFY ALL RESPECTIVE UTILITY COMPANY(IES) WHOSE LINES ARE ROUTED  THROUGH, CONNECTED TO, AND/OR ARE IN 10' PROXIMITY OF CONSTRUCTION SI
	LESS THAN 2 PSI. 2.5" AMD LARGER: SCHEDULE 40 BLACK STEEL WITH WELDED JOINTS. 2" AND SMALLER: SCHEDULE 40 BLACK STEEL WITH SCREWED JOINTS. COPPER TYPE "L" WITH SILVER SOLDER JOINTS (1000°F). TYPE 'SST" STAINLESS STEEL WITH JACKET AND COMPATIBLE FITTINGS.
35.	GREATER THAN 2 PSI: SCHEDULE 40 BLACK STEEL WITH WELDED JOINTS.  REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS O
36.	ALL PLUMBING FIXTURES.  SANITARY AND DRAINAGE PIPING 2" AND SMALLER SHALL BE SET FLUSH WITH
	FINISHED FLOOR.
37.	PROVIDE A BASE CLEANOUT AT THE LOWEST LEVEL OF ALL SANITARY AND WASTE

	GENERAL NOTES	PLUMBING FIXTURE SCHEDULE									
1.	DRAWING(S) ARE SCHEMATIC, CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL DEVICE LOCATIONS AND INTERCONNECT	SYM.	QTY.		MANUFACTURER MODEL	COLD	НОТ	WASTE	NOTES		
	ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONFIGURATION AND REQUIREMENTS.	WC	4	WATER CLOSET, ADA RATED, FLOOR MTD., FLUSH VALVE, I.6 GPF, VITREOUS CHINA, NOMINAL 18" SEAT HEIGHT		1/2"	-	3"	1,2,3,4		
2.	OWNER AND/OR CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCY AND/OR ITEMS IN NEED OF CLARIFICATION AND/OR DETAIL ELABORATION.	L	2	LAVATORY, ADA RATED, WALL MTD., GRID DRAIN, VITREOUS CHINA, SINGLE LAYER FAUCET, 4" CENTERS		1/2"	1/2"	1-1/2"	3,4,5		
3.	OWNER AND/OR CONTRACTOR TO NOTIFY ENGINEER OF ANY KNOWN ERRORS AND/OR OMISSIONS IN NEED OF ELABORATION IN WRITING	U	2	URINARY		1/2"	-	3"	3,4		
4.	FOR ENGINEERING REVIEW  OWNER AND/OR CONTRACTOR TO NOTIFY ENGINEER OF ANY	WF	1	WATER FOUNTAIN		1/2"	-	1-1/2"			
	DIFFERENT SITE CONDITIONS, STRUCTURAL CONDITIONS, SPACE UTILIZATION OF ANY OTHER DIFFEREING CONDITION IN WRITING.	NOTES	<u> </u>	•		1		-	1		

ENGINEER TO REVIEW AND RESPOND TO ALL WRITTEN NOTIFICATIONS.

**PLUMBING WASTE NOTES** 

LAVATORY.

— - -G- - —

 $-\!\!\!+$  HB

VTR

VTS

FD

ABV

. LOCATE EXISTING SANITARY SEWER LINES INFIELD. 2. INSTALL NEW FLOOR DRAIN AND ROUTE 4" WASTE LINE TO EXISTING SEWER LINE. VERIFY LOCATION AND FLOW PRIOR TO INSTALLATION. INSTALL NEW

1/2" TRAP PRIMER LINE FROM FLOOR DRAIN TO

3. I.W. = INDIRECT WASTE LINE RUN TO NEAREST

4. MIN 1/8" HORIZONTAL SLOPE PER EVERY FOOT

SAN SEWER

SAN VENT

COLD WATER

HOT WATER

COMBINATION WASTE & VENT

DOUBLE CHECK VALVE

BACKFLOW PREVENTER

GAS LINE

PIPE DOWN

PIPE CAP

HOSE BIB

WATER HAMMER

VENT THRU ROOF

VENT THRU STACK

CLEAN OUT

FLOOR DRAIN

ABOVE CEILING

RELIEF VALVE

PRESSURE/TEMPERATURE

NATURAL GAS METER

NATURAL GAS CUT OFF

ARRESTOR PISTON TYPE

(F=FLOOR,G=GRADE,W=WALL)

FLEXIBLE CONNECTION

P-TRAP

FLOOR SINK/HUB DRAIN/FLOOR DRAIN.

**PLUMBING LEGEND** 

4. CAULK/GROUT/SEAL FIXTURE CONTACT WITH WALL/FLOOR/COUNTER, AS APPLICABLE.

5. PROVIDE MIXING VALVE TO TEMPER WATER (110 F).

SYM.	QTY.	DESCRIPTION	MANUFACTURER	COLD	HOT	WASTE	NOTES	
WC	4	WATER CLOSET, ADA RATED, FLOOR MTD., FLUSH VALVE, I.6 GPF, VITREOUS CHINA, NOMINAL 18" SEAT HEIGHT		1/2"	-	3"	1,2,3,4	
L	2	LAVATORY, ADA RATED, WALL MTD., GRID DRAIN, VITREOUS CHINA, SINGLE LAYER FAUCET, 4" CENTERS		1/2"	1/2"	1-1/2"	3,4,5	
U	2	URINARY		1/2"	-	3"	3,4	
WF	1	WATER FOUNTAIN		1/2"	-	1-1/2"		
NOTES								
1. SEAT: HEAVY DUTY SOLID PLASTIC, OPEN FRONT WITH STAINLESS STEEL SELF-SUSTAINING CHECK HINGE. 2. LOCATE FLUSH OPERATOR ON MOST OPEN SIDE OF FIXTURE. 3. SOLID BLOCKING IN WALL FOR FIXTURE SUPPORT.								

SHEET LIST				
SHEET NUMBER	SHEET NAME			
M1.0	MECHANICAL PLAN			
EB1.0	ELECTRICAL GENERAL NOTES			
EB2.0	ELECTRICAL POWER & LIGHTING PLAN			
E0.1	ELECTRICAL NOTES			
E1.0	ELECTRICAL SITE PLAN			
E2.0	ELECTRICAL LIGHTING DETAILS			
E3.0	ELECTRICAL SCHEDULE			
P1.0	PLUMBING GENERAL NOTES			
P1.1	PLUMBING WASTE & WATER PLAN			
P2.0	RISERS			

DESIGN

OMS

**PUBL** 

68 BOUNDARY STREET
OLD TOWN NEIGHBOR
RI HFFTON SC
RI HFFTON SC

**REVISIONS** MARK DATE DESCRIPTION

1403-1405-11 TREC No. 2/25/2019 12:29:48 PM Date Printed Date Issued 12/11/2018 Designed By Designer

Checked by

Approved by

ISSUE FOR CONSTRUCTION

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THOMAS-REEL ENGINEERING CONSULTANTS, INC.
PERIPPERIPPERIPPERING CONSULTANTS, INC.

Checker

Approver

1/4" = 1'-0"

PLUMBING GENERAL NOTES

#### PLUMBING SPECIFICATION NOTES

I. ALL WORK SHALL CONFORM TO LOCAL CODES.

2. WATER LINES INSIDE BUILDING: A. COPPER TYPE "L" WITH LEAD FREE SOLDER. B. SCHEDULE 40 CPVC WITH SOLVENT JOINTS. C. PEX WITH MANUFACTURER'S APPROVED

CONNECTIONS.

3. WATER LINES OUTSIDE BUILDING: A. WATER METER TO 20' OUTSIDE BUILDING: SCHEDULE 40 PVC WITH SOLVENT JOINTS.

B. 20' OUTSIDE BUILDING ENTRY: SCHEDULE 40 CPVC OR COPPER TYPE "L" WITH LEAD FREE SOLDER.

4. WASTE AND VENT: SCHEDULE 40 PVC WITH DRAINAGE PATTERN FITTINGS AND SOLVENT WELDED JOINTS.

5. PROVIDE SHUT-OFF VALVES AT FIXTURES.

6. EXPOSED FIXTURE TRIM SHALL BE CHROME PLATED.

7. CAULK/SEAL ALL FIXTURE MOUNTING AT COUNTER, WALL AND FLOOR AS APPLICABLE.

8. ALL FIXTURES AND EQUIPMENT SHALL BE PROVIDED WITH A UNION TYPE CONNECTION TO FACILITATE REMOVAL/SERVICE.

### PLUMBING WASTE NOTES

I. LOCATE EXISTING SANITARY SEWER LINES IN FIELD.

2. RUN NEW 4" WASTE LINE. ADJUST CONNECTION TO EXISTING SANITARY SEWER AS NECESSARY IN FIELD.

3. INSTALL NEW FLOOR DRAIN AND ROUTE 4" WASTE LINE TO EXISTING SEWER LINE. VERIFY LOCATION AND FLOW PRIOR TO INSTALLATION. INSTALL NEW 1/2" TRAP PRIMER LINE FROM FLOOR DRAIN TO LAVATORY.

> DOUBLE CHECK VALVE BACKFLOW PREVENTER

PIPE DOWN

PIPE CAP

P-TRAP

HOSE BIBB

WATER HAMMER

VENT THRU ROOF

FLOOR DRAIN

ABOVE CEILING

NATURAL GAS METER

NATURAL GAS CUT OFF

ARRESTOR PISTON TYPE

FLEXIBLE CONNECTION

(F=FLOOR,G=GRADE,W=WALL)

4. I.W. = INDIRECT WASTE LINE RUN TO NEAREST FLOOR SINK/HUB DRAIN/FLOOR DRAIN.

PLUMBING LEGEND

——— COLD WATER

HOT WATER

---- SAN VENT

— - -G— - GAS LINE

DRAWING(S) ARE <u>SCHEMATIC</u>, CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL DEVICE LOCATIONS AND INTERCONNECT ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONFIGURATION

9. INSULATE HOT WATER LINES FROM WATER HEATER THROUGHOUT SYSTEM WITH 3/4" FIBERGLASS PERFORM OR "FR" TYPE RUBBER OR POLYOLEFIN FLEXIBLE FOAM.

10. COORDINATE WITH UTILITY COMPANIES AS REQUIRED FOR SERVICE AND METER LOCATIONS.

I I. NOTIFY THE UTILITIES PROTECTION CENTER AT LEAST THREE BUSINESS DAYS PRIOR TO BEGINNING:

A. EARTH EXCAVATION OR DIGGING WORK. B. WORK WHICH POTENTIALLY COMES WITHIN 10' OF ANY OVERHEAD HIGH VOLTAGE LINE.

12. NOTIFY ALL RESPECTIVE UTILITY COMPANY(IES) WHOSE LINES ARE ROUTED THROUGH, CONNECTED TO, AND/OR ARE IN 10' PROXIMITY OF CONSTRUCTION SITE.

PLUMBING FIXTURE SCHEDULE							
SYM.	QTY.	DESCRIPTION	MANUFACTURER MODEL	COLD	НОТ	WASTE	NOTES
WC	4	WATER CLOSET, ADA RATED, FLOOR MTD., FLUSH VALVE, I.6 GPF, VITREOUS CHINA, NOMINAL 18" SEAT HEIGHT		1/2"	-	3"	1,2,3,4
L	2	LAVATORY, ADA RATED, WALL MTD., GRID DRAIN, VITREOUS CHINA, SINGLE LAYER FAUCET, 4" CENTERS		1/2"	1/2"	1-1/2"	3,4,5
U	2	URINARY		1/2"	-	3"	3,4
WF	1	WATER FOUNTAIN		1/2"	-	1-1/2"	
NOTEC							

I. SEAT: HEAVY DUTY SOLID PLASTIC, OPEN FRONT WITH STAINLESS STEEL SELF-SUSTAINING CHECK HINGE.

2. LOCATE FLUSH OPERATOR ON MOST OPEN SIDE OF FIXTURE.

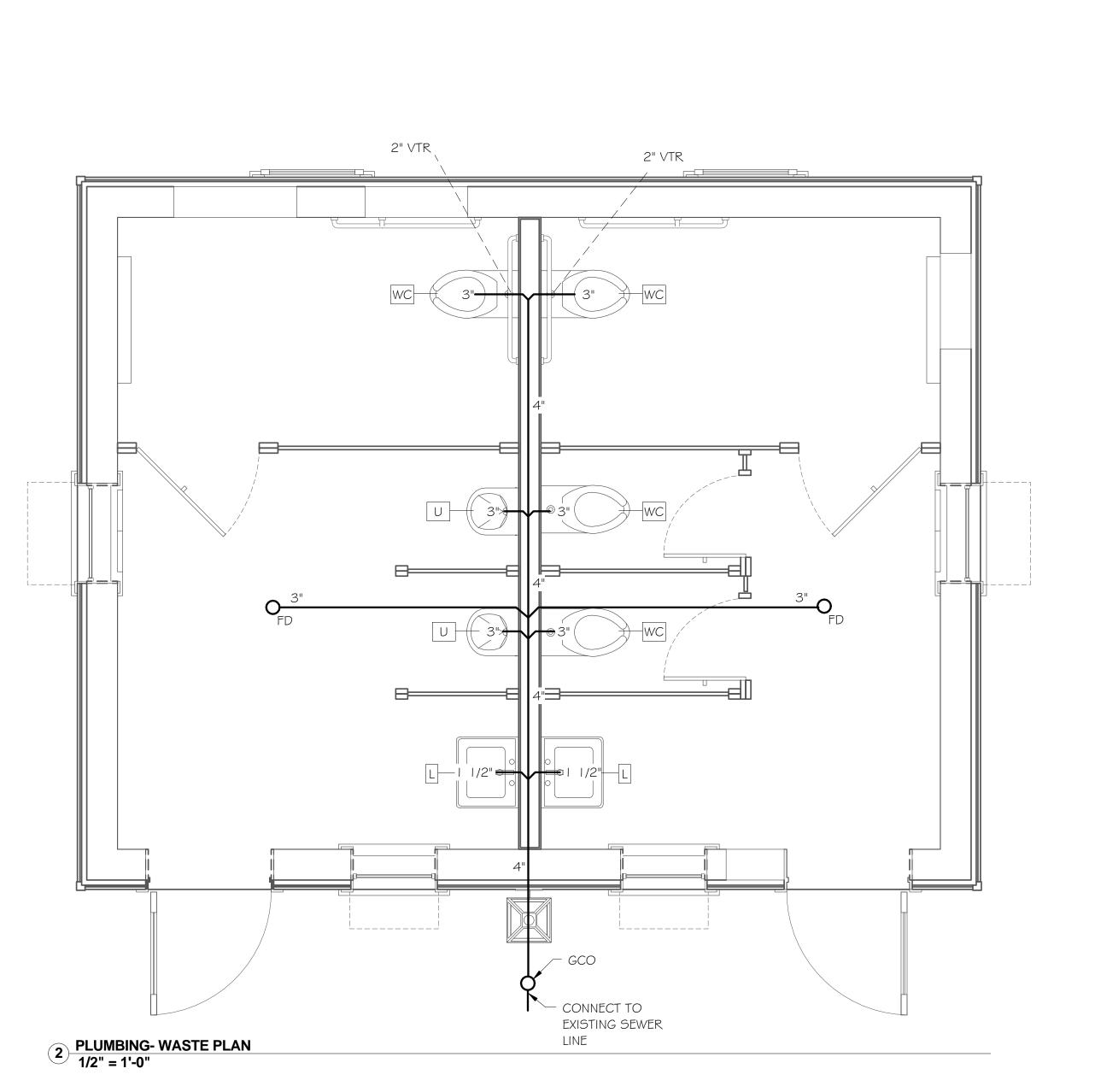
3. SOLID BLOCKING IN WALL FOR FIXTURE SUPPORT.

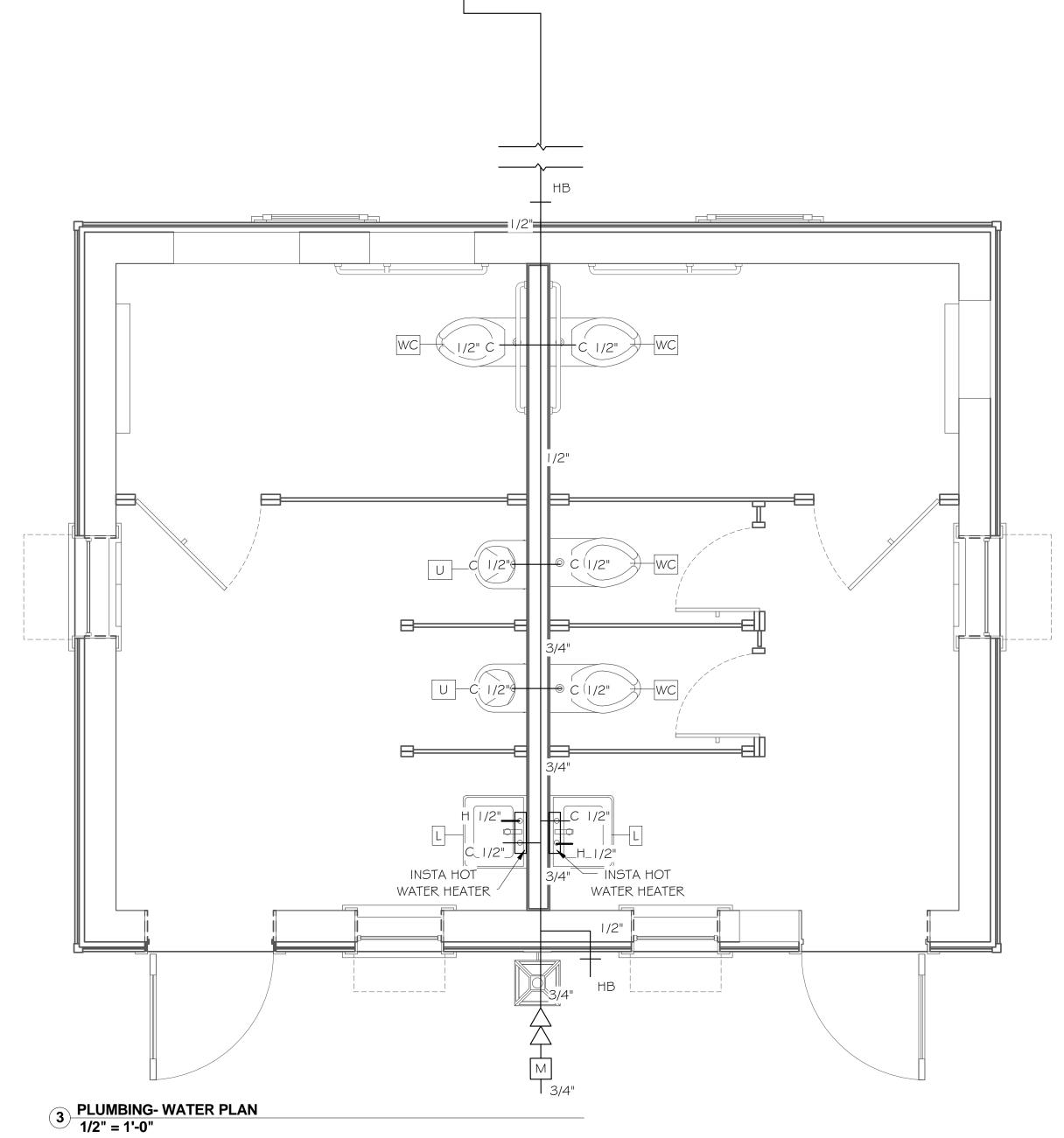
4. CAULK/GROUT/SEAL FIXTURE CONTACT WITH WALL/FLOOR/COUNTER, AS APPLICABLE.

5. PROVIDE MIXING VALVE TO TEMPER WATER (110 F).

# **GENERAL NOTE:**

AND REQUIREMENTS.





SEWER LINE TO CONNECT TO

MINIMUM 1/8" PER FOOT SLOPE

NEAREST EXISTINT LINE PR MANHOLE WHICH ALLOWS

**DESIGN REVIEW** 

REVISIONS MARK DATE DESCRIPTION

1403-1405-11 2/25/2019 12:29:49 PM Date Printed 12/11/2018

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CONSTRUCTION

FOR

As indicated

PLUMBING WASTE & WATER

#### PLUMBING SPECIFICATION NOTES

I. ALL WORK SHALL CONFORM TO LOCAL CODES.

CONNECTIONS.

2. WATER LINES INSIDE BUILDING: A. COPPER TYPE "L" WITH LEAD FREE SOLDER. B. SCHEDULE 40 CPVC WITH SOLVENT JOINTS. C. PEX WITH MANUFACTURER'S APPROVED

3. WATER LINES OUTSIDE BUILDING: A. WATER METER TO 20' OUTSIDE BUILDING: SCHEDULE 40 PVC WITH SOLVENT JOINTS.

> B. 20' OUTSIDE BUILDING ENTRY: SCHEDULE 40 CPVC OR COPPER TYPE "L" WITH LEAD FREE SOLDER.

4. WASTE AND VENT: SCHEDULE 40 PVC WITH DRAINAGE PATTERN FITTINGS AND SOLVENT WELDED JOINTS.

5. PROVIDE SHUT-OFF VALVES AT FIXTURES.

6. EXPOSED FIXTURE TRIM SHALL BE CHROME PLATED.

7. CAULK/SEAL ALL FIXTURE MOUNTING AT COUNTER, WALL AND FLOOR AS APPLICABLE.

8. ALL FIXTURES AND EQUIPMENT SHALL BE PROVIDED WITH A UNION TYPE CONNECTION TO FACILITATE REMOVAL/SERVICE.

#### **GENERAL NOTE:**

DRAWING(S) ARE <u>SCHEMATIC</u>, CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL DEVICE LOCATIONS AND INTERCONNECT ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONFIGURATION AND REQUIREMENTS.

9. INSULATE HOT WATER LINES FROM WATER HEATER THROUGHOUT

SYSTEM WITH 3/4" FIBERGLASS PERFORM OR "FR" TYPE RUBBER OR

I I . NOTIFY THE UTILITIES PROTECTION CENTER AT LEAST THREE

A. EARTH EXCAVATION OR DIGGING WORK.

10. COORDINATE WITH UTILITY COMPANIES AS REQUIRED FOR SERVICE

B. WORK WHICH POTENTIALLY COMES WITHIN 10' OF ANY

12. NOTIFY ALL RESPECTIVE UTILITY COMPANY(IES) WHOSE LINES ARE

ROUTED THROUGH, CONNECTED TO, AND/OR ARE IN 10' PROXIMITY OF

POLYOLEFIN FLEXIBLE FOAM.

AND METER LOCATIONS.

CONSTRUCTION SITE.

BUSINESS DAYS PRIOR TO BEGINNING:

OVERHEAD HIGH VOLTAGE LINE.

### PLUMBING WASTE NOTES

I. LOCATE EXISTING SANITARY SEWER LINES IN FIELD.

2. RUN NEW 4" WASTE LINE. ADJUST CONNECTION TO EXISTING SANITARY SEWER AS NECESSARY IN FIELD.

3. INSTALL NEW FLOOR DRAIN AND ROUTE 4" WASTE LINE TO EXISTING SEWER LINE. VERIFY LOCATION AND FLOW PRIOR TO INSTALLATION. INSTALL NEW 1/2" TRAP PRIMER LINE FROM FLOOR DRAIN TO LAVATORY.

4. I.W. = INDIRECT WASTE LINE RUN TO NEAREST FLOOR SINK/HUB DRAIN/FLOOR DRAIN.

#### PLUMBING LEGEND

	SAN SEWER
	SAN VENT
	COLD WATER
	HOT WATER
— — —G— — —	GAS LINE
	DOUBLE CHECK VALVE BACKFLOW PREVENTER

PIPE DOWN PIPE CAP

WATER HAMMER ARRESTOR PISTON TYPE

FLEXIBLE CONNECTION VENT THRU ROOF CLEAN OUT

(F=FLOOR, G=GRADE, W=WALL)FLOOR DRAIN ABOVE CEILING

PRESSURE/TEMPERATURE RELIEF VALVE

NATURAL GAS METER

NATURAL GAS CUT OFF

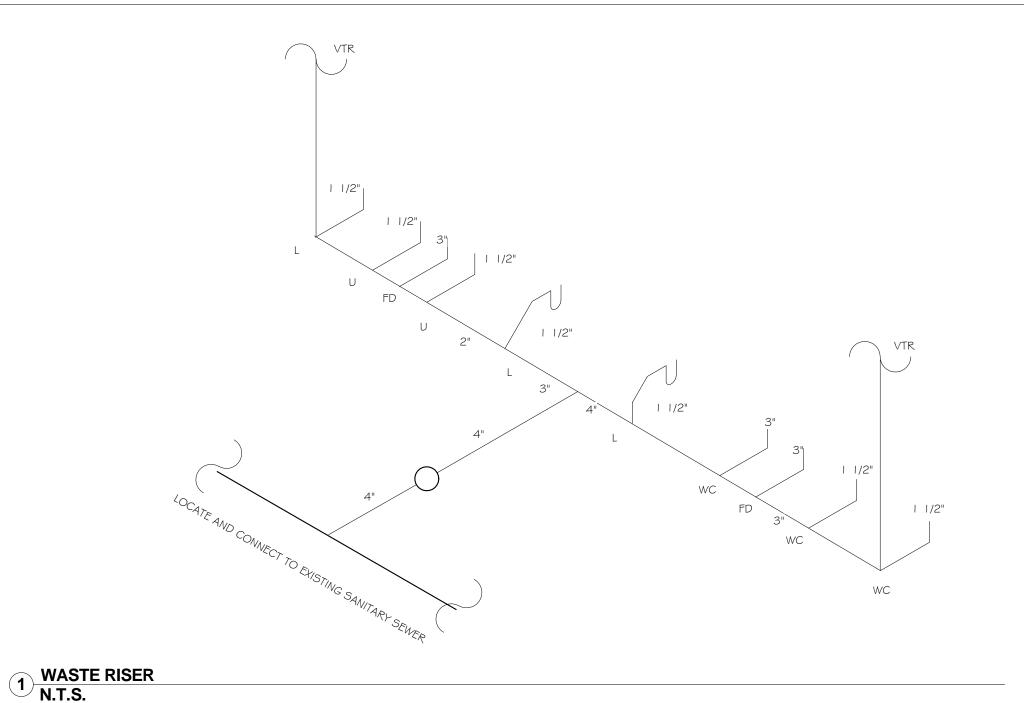
PLUMBING FIXTURE SCHEDULE							
SYM.	QTY.	DESCRIPTION	MANUFACTURER MODEL	COLD	НОТ	WASTE	NOTES
WC	4	WATER CLOSET, ADA RATED, FLOOR MTD., FLUSH VALVE, I.6 GPF, VITREOUS CHINA, NOMINAL 18" SEAT HEIGHT		1/2"	-	3"	1,2,3,4
L	2	LAVATORY, ADA RATED, WALL MTD., GRID DRAIN, VITREOUS CHINA, SINGLE LAYER FAUCET, 4" CENTERS		1/2"	1/2"	1-1/2"	3,4,5
U	2	URINARY		1/2"	-	3"	3,4
WF	1	WATER FOUNTAIN		1/2"	-	1-1/2"	

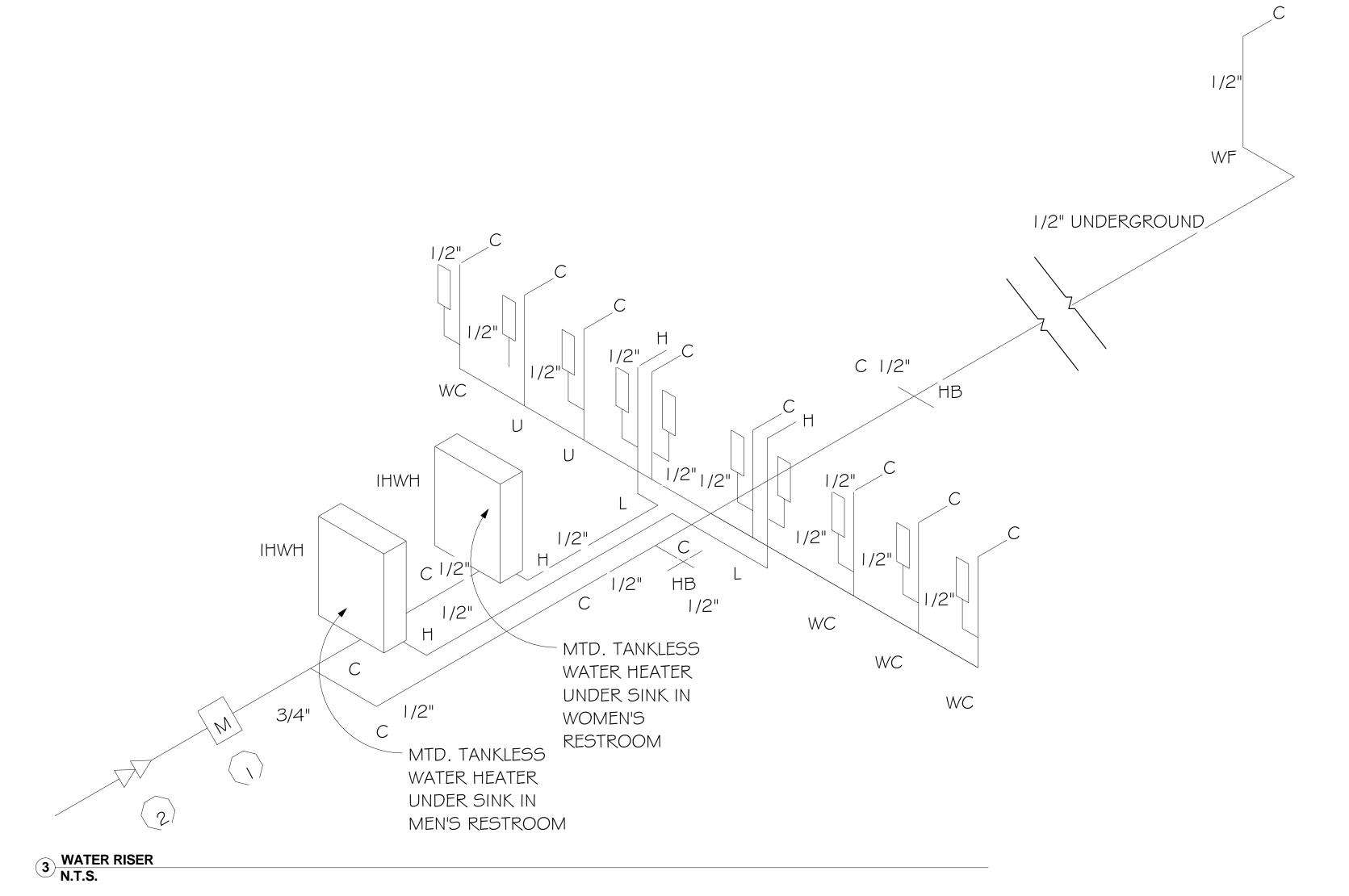
I. SEAT: HEAVY DUTY SOLID PLASTIC, OPEN FRONT WITH STAINLESS STEEL SELF-SUSTAINING CHECK HINGE.

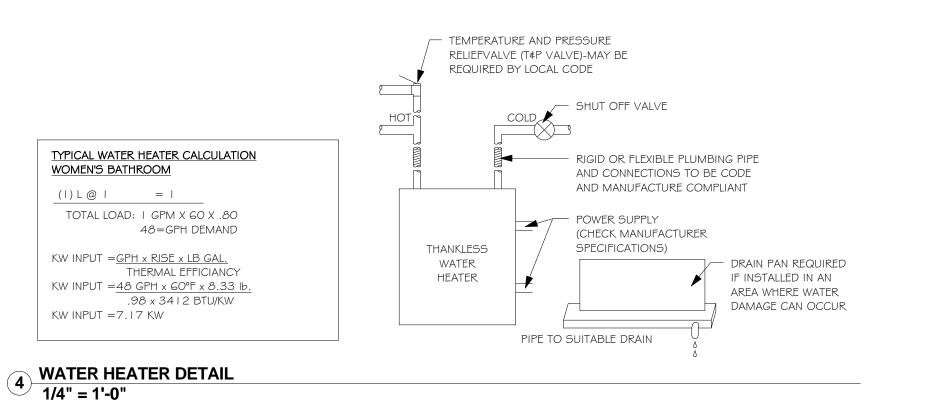
2. LOCATE FLUSH OPERATOR ON MOST OPEN SIDE OF FIXTURE. 3. SOLID BLOCKING IN WALL FOR FIXTURE SUPPORT.

4. CAULK/GROUT/SEAL FIXTURE CONTACT WITH WALL/FLOOR/COUNTER, AS APPLICABLE.

5. PROVIDE MIXING VALVE TO TEMPER WATER (110 F).







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FOR

**DESIGN REVIEW** 

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REVISIONS MARK DATE DESCRIPTION

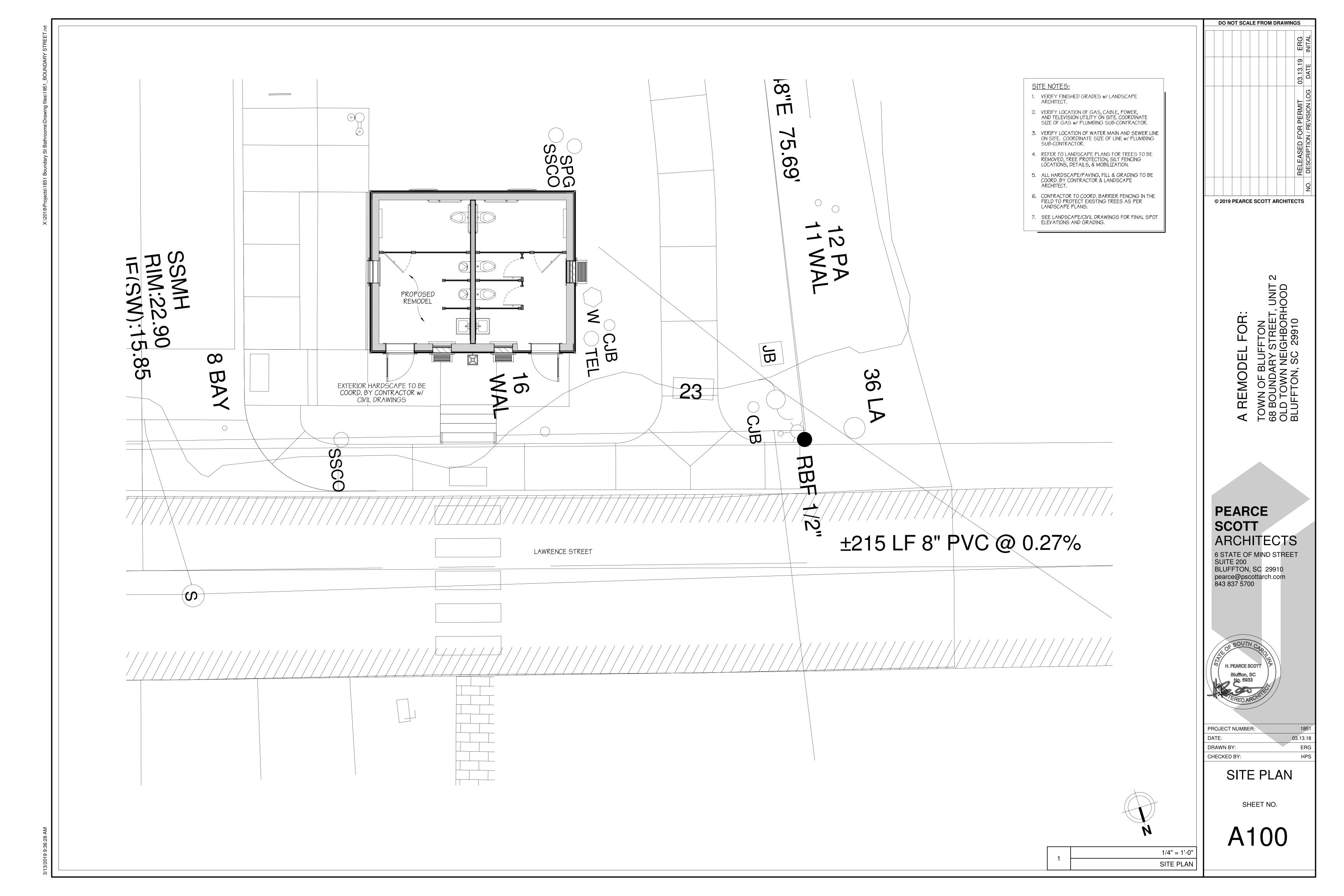
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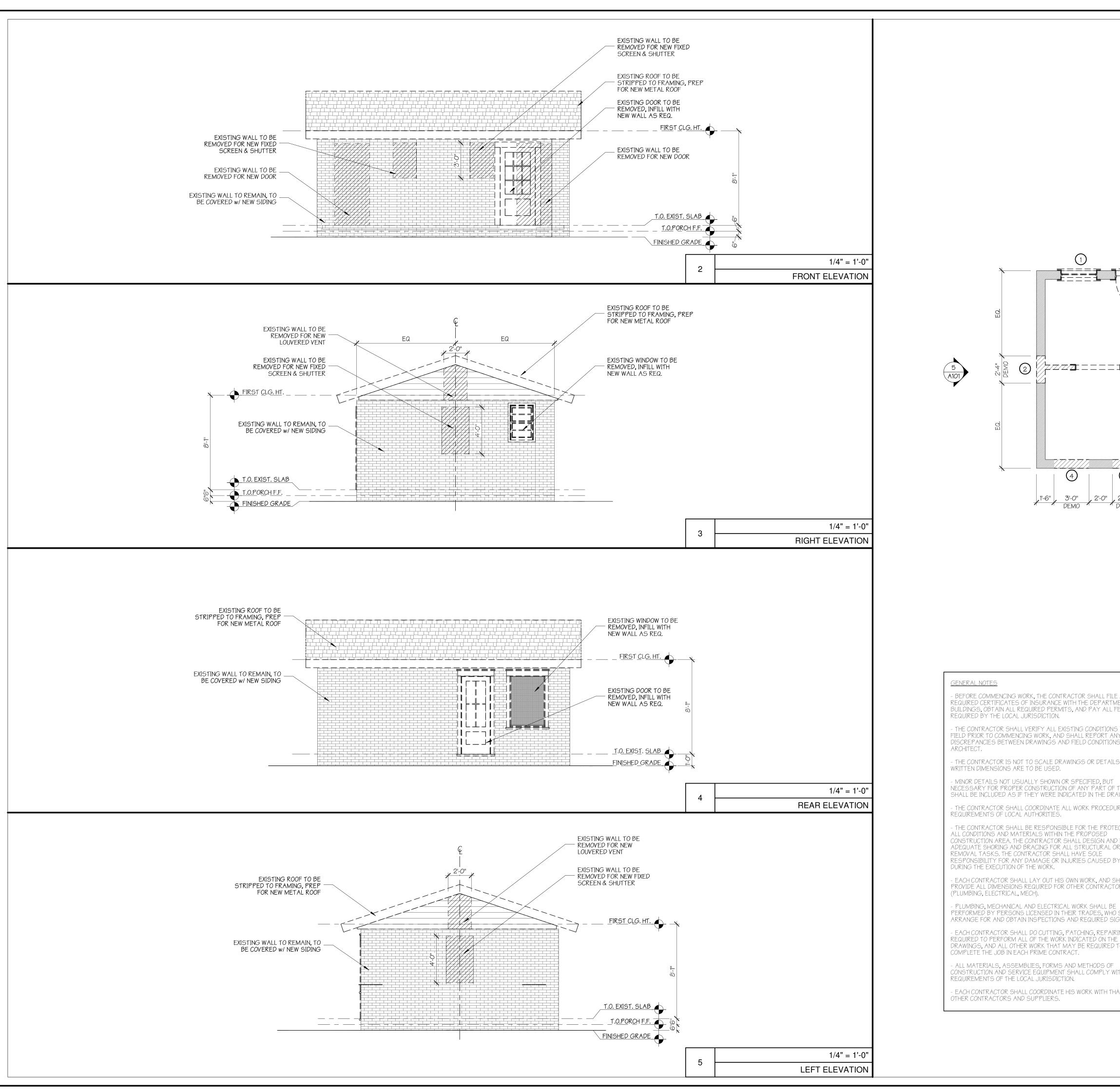
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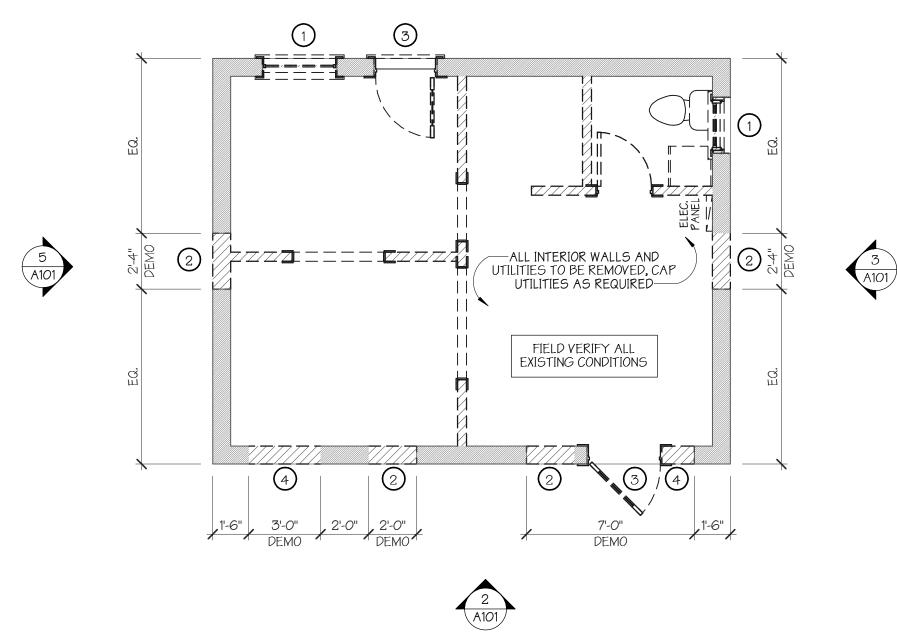
Date Issued Designed By Checked by Approved by

As indicated

RISERS







#### <u>GENERAL NOTES</u>

- BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED CERTIFICATES OF INSURANCE WITH THE DEPARTMENT OF BUILDINGS, OBTAIN ALL REQUIRED PERMITS, AND PAY ALL FEES REQUIRED BY THE LOCAL JURISDICTION.

- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK, AND SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS TO THE

- THE CONTRACTOR IS NOT TO SCALE DRAWINGS OR DETAILS. ONLY WRITTEN DIMENSIONS ARE TO BE USED.

NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS. - THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR ALL STRUCTURAL OR REMOVAL TASKS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF THE WORK.

#### - EACH CONTRACTOR SHALL LAY OUT HIS OWN WORK, AND SHALL PROVIDE ALL DIMENSIONS REQUIRED FOR OTHER CONTRACTORS (PLUMBING, ELECTRICAL, MECH).

- PLUMBING, MECHANICAL AND ELECTRICAL WORK SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADES, WHO SHALL ARRANGE FOR AND OBTAIN INSPECTIONS AND REQUIRED SIGN-OFFS. - EACH CONTRACTOR SHALL DO CUTTING, PATCHING, REPAIRING AS REQUIRED TO PERFORM ALL OF THE WORK INDICATED ON THE DRAWINGS, AND ALL OTHER WORK THAT MAY BE REQUIRED TO

- ALL MATERIALS, ASSEMBLIES, FORMS AND METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL JURISDICTION.

- EACH CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER CONTRACTORS AND SUPPLIERS.

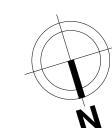
WALL LEGEND:

DEMO WALL

EXISTING WALL TO REMAIN

DEMO NOTES

1	EXISTING WINDOW TO BE REMOVED, INFILL WITH NEW WALL AS REQUIRED
2	EXISTING WALL TO BE REMOVED FOR NEW FIXED SCREEN & SHUTTER
3	EXISTING DOOR TO BE REMOVED, INFILL WITH NEW WALL AS REQUIRED
4	EXISTING WALL TO BE REMOVED FOR NEW DOOR



1/4" = 1'-0" DEMO PLAN © 2019 PEARCE SCOTT ARCHITECTS

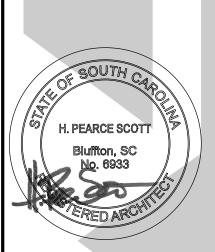
DO NOT SCALE FROM DRAWINGS

REMODEL

PEARCE SCOTT

ARCHITECTS 6 STATE OF MIND STREET SUITE 200 BLUFFTON, SC 29910 pearce@pscottarch.com

843 837 5700



PROJECT NUMBER: DATE: 03.13.18 ERG DRAWN BY: CHECKED BY:

**EXISTING PLAN** & ELEVATIONS SHEET NO.

