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# Coquina Beach

2650 Gulf Drive South Bradenton, Florida, 34217

# Beach Side Restrooms Renovations

Manatee County Government Bradenton, Florida 34208

location map area map

### CS-1 COVER SHEET

#### STRUCTURAL

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### S2.0 RESTROOM - ROOF PLAN

ARCHITECTURAL

A001 INFORMATION SHEET A101 FLOOR PLANS

A102 EXTERIOR ELEVATIONS AND BUILDING SECTION

### A103 ROOF PLAN AND DETAILS

E001 ELECTRICAL LEGEND

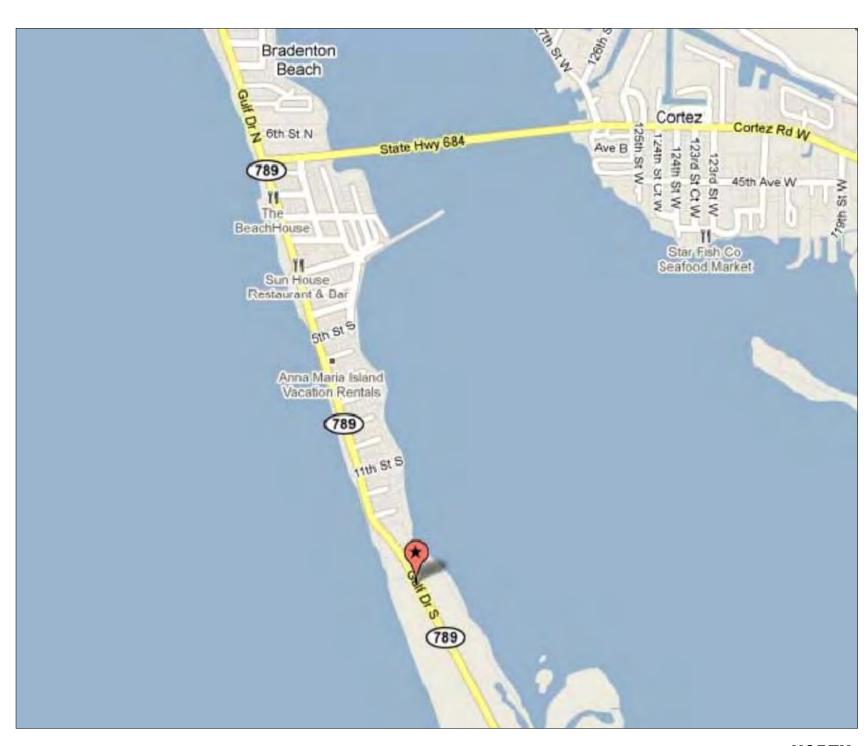
E101 ELECTRICAL LEGEND
E101 ELECTRICAL FLOOR PLAN

#### PLUMBING

ELECTRICAL

P001 PLUMBING LEGEND & SCHEDULES
P101 PLUMBING FLOOR PLANS



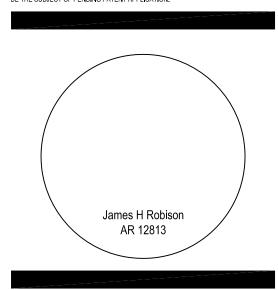


NORTH

## SCHENKELSHULTZ

677 North Washington Blvd. Sarasota, Fl 34236 voice 941.952.5875 fax 941.957.3630 schenkelshultz.com SS Lic No - AA-C000937

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drawn: JR checked: KD date: 04.13.12 comm. no.: 0920829

**COVER SHEET** 

CS-1

#### STRUCTURAL NOTES

LECTRONIC VERSIONS OF STRUCTURAL DRAWINGS ARE THE SOLE, COPYRIGHTED PROPERTY OF KARINS ENGINEERING GROUP INC. ELECTRONIC VERSIONS SHALL NOT BE TRANSFERRED OR SHARED WITHOUT THE EXPRESS, WRITTEN PERMISSION OF KARINS ENGINEERING GROUP INC.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

DIMENSIONS AND EXISTING CONDITIONS THROUGHOUT THE PROJECT SHALL BE FIELD VERIFIED. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER-OF-RECORD BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.

MODIFIED STRUCTURAL MEMBERS ARE IN COMPLIANCE WITH FLORIDA BUILDING CODE 2007 EDITION OF THE FLORIDA BUILDING CODE W/ REVISION 2009. MEMBERS NOT DESIGNATED FOR ALTERATIONS WERE ASSUMED ADEQUATE. NO EXHAUSTIVE STUDIES WERE PERFORMED BY KARINS ENGINEERING GROUP, INC. (KEG) PRIOR TO THIS DESIGN TO UNCOVER ALL CONSTRUCTION DEFECTS OR CODE VIOLATIONS.

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS.

NO PENETRATIONS SHALL BE MADE IN ANY STRUCTURAL OR FOUNDATION MEMBERS OTHER THAN THOSE LOCATED ON THESE DRAWINGS WITHOUT PREVIOUS APPROVAL OF THE ENGINEER.

PROPOSED CHANGES AND REQUEST FOR INFORMATION OR SUBSTITUTION SHALL BE SUBMITTED TO THE ARCHITECT OF RECORD. ARCHITECT OF RECORD SHALL REVIEW AND APPROVE PROPOSAL OR REQUEST PRIOR TO SUBMITTING TO ENGINEERING OF RECORD. ENGINEER OF RECORD SHALL REVIEW AND RETURN TO ARCHITECT BEFORE CHANGES IN-FIELD PROCEED.

#### DESIGN LOADS:

THE STRUCTURAL SYSTEM FOR BUILDING DEPICTED HEREON HAS BEEN DESIGNED ACCORDING TO THE 2007 EDITION AND 2009 SUPPLEMENTS OF THE FLORIDA BUILDING

THE STRUCTURE HAS BEEN DESIGNED TO RESIST THE FOLLOWING SUPERIMPOSED LOADS.

FLOOR: LIVE LOAD: 40 psf LIVE LOAD: 20 psf

DEAD LOAD: 25 psf

ASCE 7-05: BASIC WIND SPEED 130 MPH 3-SEC. GUST, IMPORTANCE FACTOR 1.0, EXPOSURE CATEGORY C, BUILDING CATEGORY II, OPEN BUILDING (CANOPY), PARTIALLY ENCLOSED BUILDING (RESTROOM), MAIN WIND FORCE RESISTING SYSTEM ROOF DESIGN PRESSURES: +22.6 psf. -54.8 psf. GCpi = ±0.55.

#### **CONCRETE REINFORCING:**

SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, U.N.O. FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. SHOP DRAWINGS DEPICTING QUANTITY AND INTENDED PLACEMENT LOCATION OF REINFORCING STEEL SHALL BE SUBMITTED PRIOR TO COMMENCEMENT OF FABRICATION.

#### **CONCRETE:**

CONCRETE SHALL BE AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE MIX: 3000 psi FOR SLAB ON GRADE, STEPS AND ALL NON-ELEVATED FLATWORK 5000 psi FOR BEAMS; WATER TO CEMENTITIOUS RATIO NOT TO EXCEED 0.4.

SOIL TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY DETERMINED IN ACCORDANCE WITH ASTM D-1557.

CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C-94 FOR MEASURING, MIXING, TRANSPORTING, ETC. MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. WATER/ CEMENT RATIO FOR CONCRETE AT EXPOSED TO CHLORIDES & DECKS SHALL NOT EXCEED 0.40 BY WEIGHT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5000psi.

CONCRETE SHALL COMPLY WITH ALL THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED. CONCRETE SHALL BE PLACED IN ITS FINAL POSITION WITHIN 90 MINUTES AFTER THE ADDITION OF BATCH WATER. CONCRETE SHALL BE DISCARDED IF THE FOREGOING ELAPSED TIME IS EXCEEDED. THE ON-SITE REPRESENTATIVE OF THE TESTING LAB SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NOTED NONCOMPLIANCE WITH THE ABOVE.

SLABS SHALL BE MOIST CURED OR CURED USING A DISSIPATING CURING COMPOUND MEETING ASTM STANDARD C309 TYPE 1 AND SHALL HAVE A FUGITIVE DYE. THE COMPOUND SHALL BE PLACED AS SOON AS THE FINISHING IS COMPLETED OR AS SOON AS THE WATER HAS LEFT THE UNFINISHED CONCRETE. ALL SCUFFED OR BROKEN AREAS IN THE CURING MEMBRANE SHALL BE RECOATED DAILY. CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER. PREPARATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

#### PENETRATIONS:

UNLESS CLEARLY SHOWN ON THE STRUCTURAL DRAWINGS, NO PENETRATIONS SHALL BE MADE IN ANY STRUCTURAL OR FOUNDATION MEMBER WITHOUT A PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO IDENTIFY SUCH PENETRATIONS BASED ON INFORMATION PROVIDED BY ALL SUBCONTRACTORS AND TO SUBMIT DETAILED AND DIMENSIONED FLOOR PLANS TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY LABOR AND MATERIALS ASSOCIATED WITH ADDITIONAL REINFORCEMENT OF STRUCTURAL MEMBERS RESULTING FROM INTRODUCTION OF SUCH PENETRATIONS.

#### **CHEMICAL ANCHORS:**

ALL CHEMICAL ANCHORS SHALL BE SUBMITTED FOR ENGINEER APPROVAL PRIOR TO INSTALLATION. CHEMICAL ANCHORS SHALL BE SUBMITTED FOR EACH SPECIFIC USE AND

#### **MASONRY WALLS**

MASONRY UNITS SHALL MEET ASTM C-90 FOR HOLLOW LOAD BEARING TYPE MASONRY WITH UNIT STRENGTH OF 1900 psi ON THE NET AREA (f'm = 1500 psi). MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C-270 WITH MINIMUM COMPRESSION STRENGTH OF 1900 psi OR TYPE "S" OR 2500 psi FOR TYPE "M". GROUT SHALL BE 2500 psi MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM C-1019.

REINFORCED VERTICAL CELLS AS SHOWN ON PLANS SHALL BE GROUT FILLED WITH 1#5 REINFORCING BAR VERTICAL, UNLESS OTHERWISE NOTED. EXCEPT AS NOTED VERTICAL REINFORCEMENT SHALL BE PROVIDED AT CORNERS, INTERSECTIONS, WITHIN 16 IN. OF EACH SIDE OF OPENINGS, WITHIN 8 IN. OF EACH SIDE OF MOVEMENT JOINTS, WITHIN 8 IN. OF THE ENDS OF THE WALLS, AND AT A MAXIMUM SPACING OF 4 FEET ON CENTER. REINFORCEMENT ADJACENT TO OPENINGS NEED NOT BE PROVIDED FOR OPENINGS SMALLER THAN 16 IN. IN EITHER THE HORIZONTAL OR VERTICAL DIRECTION, UNLESS THE SPACING OF DISTRIBUTED REINFORCEMENT IS INTERRUPTED BY SUCH OPENINGS. HORIZONTAL JOINT REINFORCEMENT SHALL CONSIST OF AT LEAST TWO WIRES OF W1.7 SPACED NOT MORE THAN 16 IN. HORIZONTAL REINFORCEMENT SHALL ALSO BE PROVIDED AT THE BOTTOM AND TOP OF WALL OPENINGS AND SHALL EXTEND NOT LESS THAN 24 IN. NOR LESS THAN 48 BAR DIAMETERS PAST THE OPENING; CONTINUOUSLY AT STRUCTURALLY CONNECTED ROOF AND FLOOR LEVELS; AND WITHIN 16 IN. OF THE TOP OF WALLS. DOWELS SHALL BE USED TO PROVIDE CONTINUITY INTO THE STRUCTURE ABOVE AND/OR BELOW, UNLESS NOTED OTHERWISE. USE METAL LATH, MORTAR, OR SPECIAL UNITS TO CONFINE CONCRETE AND GROUT TO AREA REQUIRED.

STRUCTURAL WOOD COMPONENTS (BEAMS, JOISTS, RAFTERS, SHEAR/BEARING WALLS, ETC.) SHALL BE CONSTRUCTED OF MINIMUM NO. 2 GRADE SOUTHERN PINE ACCORDING TO AF&PA NDS. WOOD IN CONTACT WITH CONCRETE OR MASONRY, AND AT OTHER LOCATIONS AS SHOWN ON THE DRAWINGS, SHALL BE PROTECTED OR PRESERVATIVE TREATED. MEMBER SIZES SHOWN ARE NOMINAL UNLESS NOTED OTHERWISE.

ENGINEERED WOOD TRUSS SYSTEMS SHALL BE DESIGNED BY SUPPLIER'S SPECIALTY ENGINEER TO CONFIGURATION AND LOAD-CARRYING CAPACITY SHOWN ON DRAWINGS AND SPECIFICATIONS. ALTERNATE TRUSS LAYOUTS ARE ACCEPTABLE ONLY AS A CHANGE ORDER WHICH WILL INCLUDE ENGINEERING CHARGES FOR REDESIGN OF THE STRUCTURE AND FOUNDATION BY THE ENGINEER OF RECORD. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION AND BEFORE CONSTRUCTION OF THE FOUNDATION. SHOP DRAWINGS SHALL SHOW AND SPECIFY ALL CONNECTOR TYPES UTILIZED WITHIN TRUSSES, AS WELL AS CONNECTORS UTILIZED IN ALL OTHER CONNECTIONS AND ATTACHMENTS BETWEEN TRUSSES OR COMPONENTS SUPPLIED AS PART OF THE ENGINEERED TRUSS SYSTEM. AN ERECTION DRAWING SHALL BE INCLUDED, IDENTIFYING ALL TRUSS SYSTEM COMPONENTS, AS WELL AS ALL PERMANENT BRACING REQUIRED FOR TRUSS DESIGN. ENGINEER OF RECORD MUST REVIEW/ APPROVE ALL TRUSS LAYOUTS BEFORE FOUNDATION IN CONSTRUCTED.

ENGINEERED SHOP DRAWINGS SHALL BEAR THE SIGNATURE AND IMPRESSED SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER AS THE SPECIALTY ENGINEER. THE FOLLOWING LOAD DURATION FACTORS SHALL BE USED:

> 1.00 1.25 1.33 DEAD LOAD + FLOOR LIVE LOAD DEAD LOAD + ROOF LIVE LOAD DEAD LOAD + WIND LOAD

### **CONNECTORS:**

CONNECTOR MODEL NUMBERS SHOWN ARE Strong—tie CONNECTORS AS MANUFACTURED BY SIMPSON Strong—tie Company, U.N.O., AND SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S DIRECTIONS TO RESIST THE SPECIFIED LOADS. ALL STRAPS SHALL BE GALVANIZED OR STAINLESS STEEL

UPLIFT CONNECTIONS SHALL BE INSTALLED TO RESIST UPLIFT FORCES INDICATED BY THE SPECIALTY ENGINEER. AS FOLLOWS:

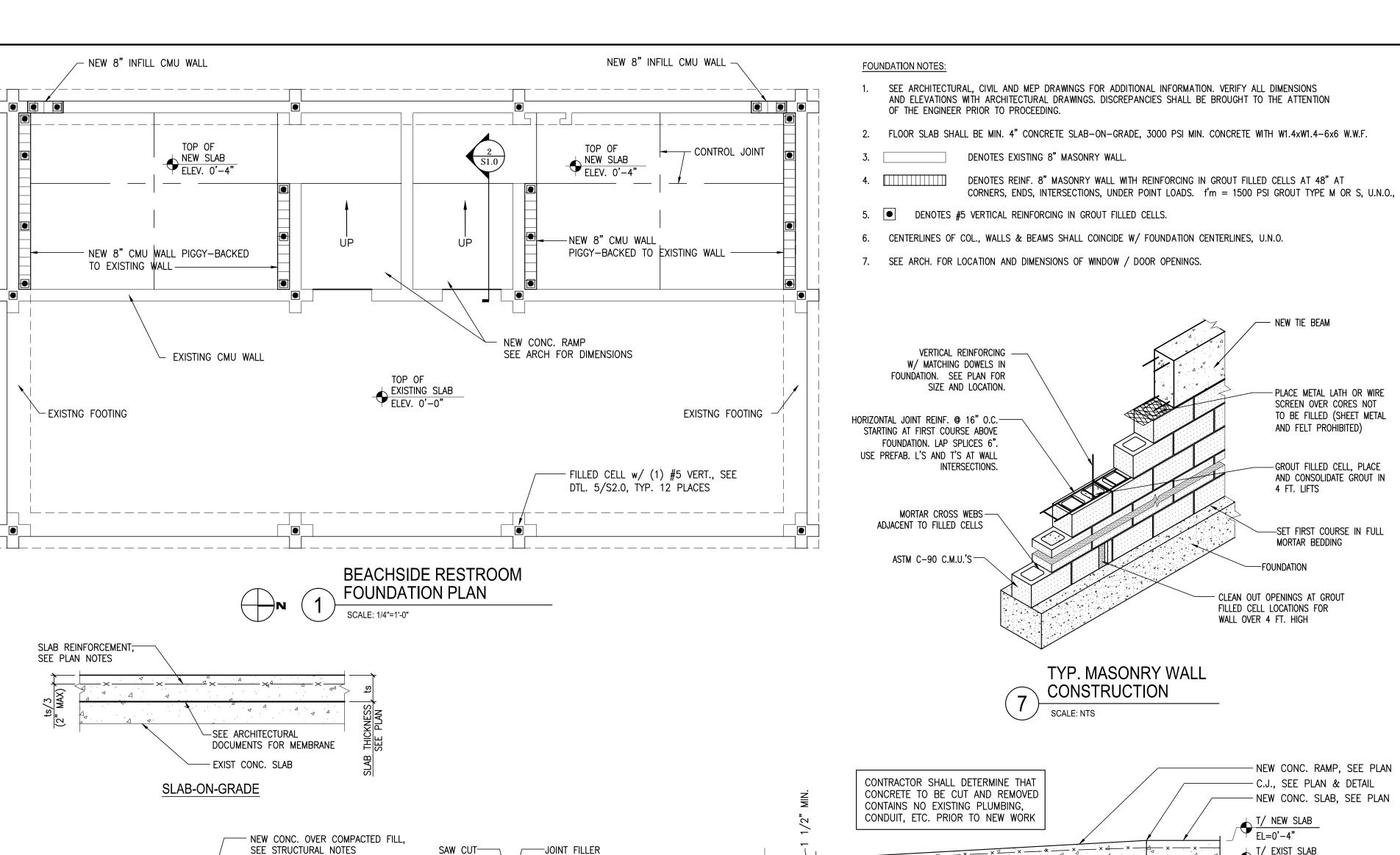
WOOD TO CONCRETE FOR UPLIFT LOADS UP TO 1450#, META 18

FOR UPLIFT LOADS OF 1450# TO 2900#, (2) META18 FOR UPLIFT LOADS OF 2900# TO 10530#, HGT-2/HGT-3

CONTRACTOR MAY USE APPROPRIATE SIMPSON CONNECTORS WITH LESS CAPACITY THAN SPECIFIED ABOVE WHEN LESS UPLIFT LOAD IS SHOWN ON THE INDIVIDUAL TRUSS DETAIL SHEETS (PROVIDED BY THE SPECIALTY ENGINEER)

#### **SUPPLEMENTAL SKETCHES/ DRAWINGS:**

T SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FORWARD A COPY OF ALL CORRESPONDENCE AFFECTING THE STRUCTURE TO THE PROJECT'S INSPECTOR THROUGHOUT THE DURATION OF CONSTRUCTION.





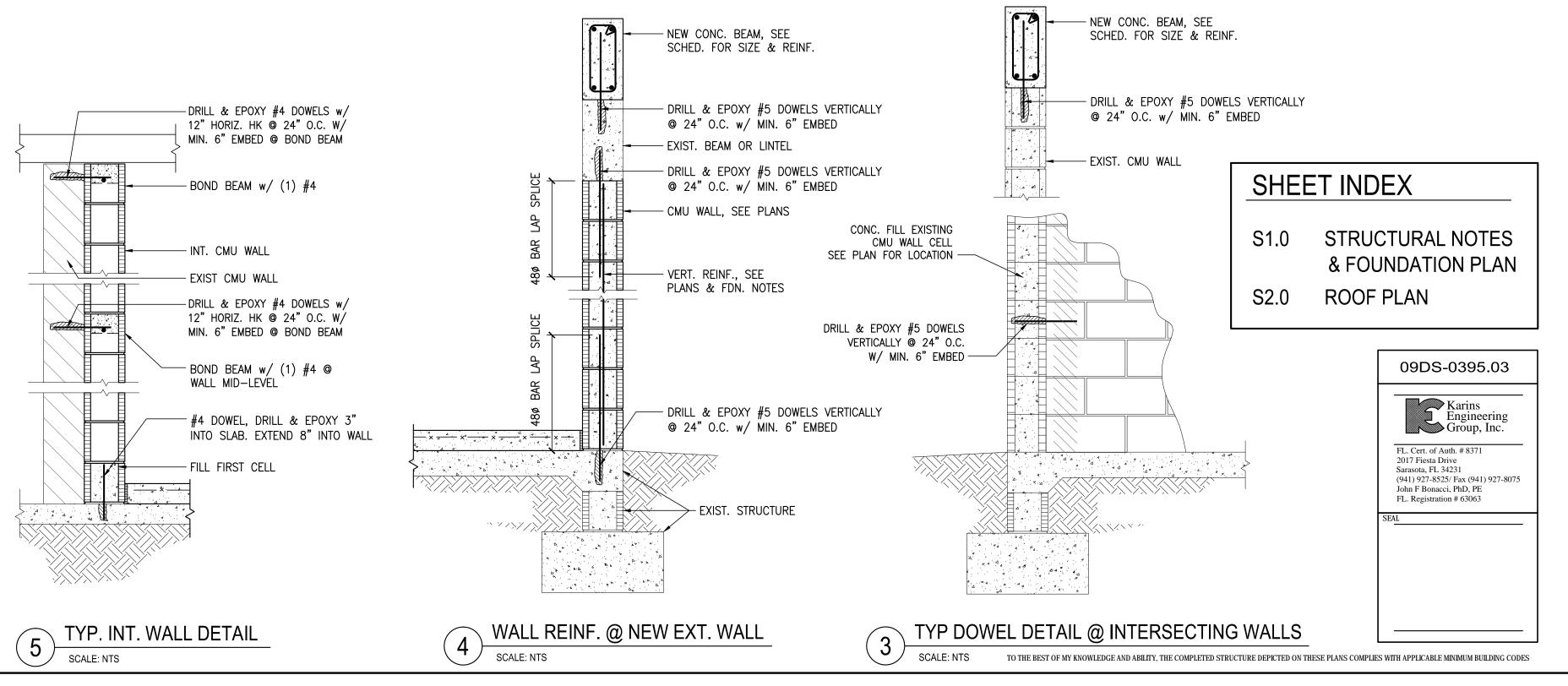
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### **SCHENKEL**SHULTZ

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## Coquina Beach

2650 Gulf Drive South Bradenton, Florida 34217

EL=0'-0"

A . A . . . A

2'−6"

**Beach Side Restroom** Renovation

**Manatee County Government** 

1112 Manatee Avenue West Bradenton, Florida 34208

revisions:

drawn: checked: date: 04.13.2012 comm. no.: 0920829

**RESTROOM** STRUCTURAL NOTES & FOUNDATION PLAN

#### GENERAL DEMOLITION NOTES:

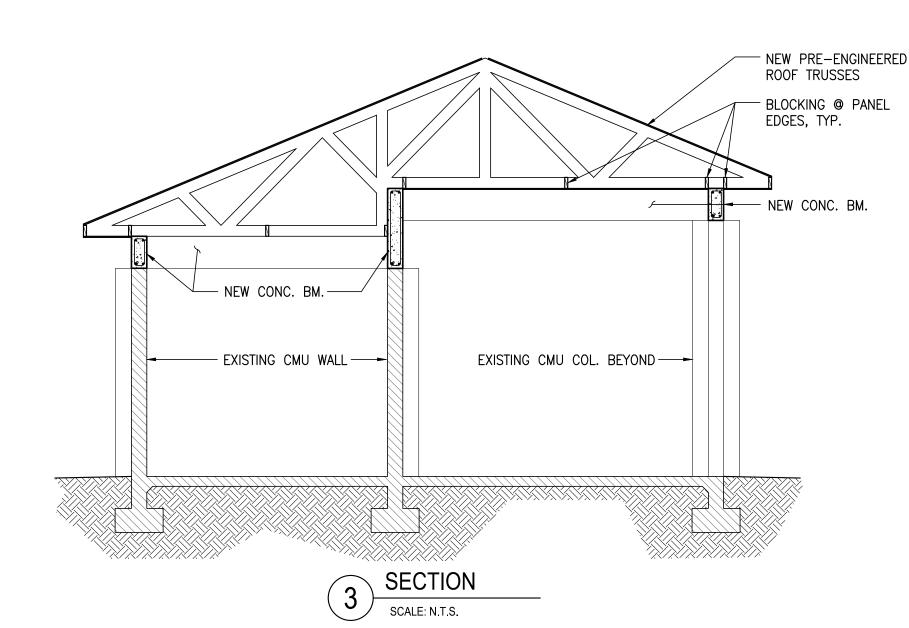
- 2. CONTRACTOR SHALL INSPECT AND VERIFY THE SCOPE OF WORK, ANY ADDITIONAL WORK NOT SPECIFICALLY NOTED ON THE DRAWINGS BUT BECOMES APPARENT UPON CAREFUL FIELD INSPECTIONS SHALL BE PART OF THIS CONTRACT.
- 3. PROVIDE SMOOTH UNDETECTABLE TRANSITION FROM EXISTING TO NEW CONSTRUCTION.
- 4. OWNER HAS FIRST SALVAGE RIGHTS TO ANY ELEMENT OF EXISTING CONSTRUCTION TO BE REMOVED DURING DEMOLITION OPERATIONS.
- 5. PATCH AND REPAIR ALL CONSTRUCTION TO REMAIN WHERE AFFECTED BY DEMOLITION OPERATIONS.
- 6. PROTECT CONSTRUCTION TO REMAIN FROM WEATHER INTRUSION, VANDALISM AND ALL OTHER RISKS CREATED BY DEMOLITION OPERATIONS.
- 7. FIELD VERIFY ALL DIMENSIONS ASSOCIATED WITH EXISTING CONSTRUCTION.
- 8. WHERE DEMOLITION OPERATIONS EFFECT STRUCTURAL SYSTEM COMPONENTS TO REMAIN, SHORE THESE COMPONENTS AS REQUIRED UNTIL NEW CONSTRUCTION IS IN PLACE.
- 9. ALL EXISTING STRUCTURAL SUPPORT COMPONENTS SHALL REMAIN INTACT EXCEPT AS OTHERWISE INDICATED.
- 10. REMOVE OR CAP AND ABANDON ALL ELECTRICAL WIRING IN WALLS TO BE REMOVED.
- 11. REMOVE OR CAP FOR FUTURE USE ALL PLUMBING LINES AND OUTLETS IN WORK TO BE DEMOLISHED.
- 12. PATCH ANY EXISTING CONSTRUCTION AS REQUIRED WHICH IS DAMAGED DUE TO THE INSTALLATION OF NEW FIXTURES, ELECTRICAL DEVICES, EQUIPMENT OR ANY OTHER COMPONENT.
- 13. PROTECT ALL EXISTING FINISHES TO REMAIN FROM DAMAGE FOR DURATION OF NEW CONSTRUCTION.
- 14. PATCH AND REPAIR EXISTING CEILINGS WHERE ELECTRICAL AND MECHANICAL DEVICES HAVE BEEN REMOVED OR RELOCATED. MATCH EXISTING.
- 15. MODIFIED STRUCTURAL MEMBERS ARE IN COMPLIANCE WITH FLORIDA BUILDING CODE 2007 W/ REVISION 2009. MEMBERS NOT DESIGNATED FOR ALTERATIONS WERE ASSUMED ADEQUATE. NO EXHAUSTIVE STUDIES WERE PERFORMED BY KARINS ENGINEERING GROUP, INC. (KEG) PRIOR TO THIS DESIGN TO UNCOVER ALL CONSTRUCTION DEFECTS OR CODE VIOLATIONS.

#### **ROOF PLAN NOTES:**

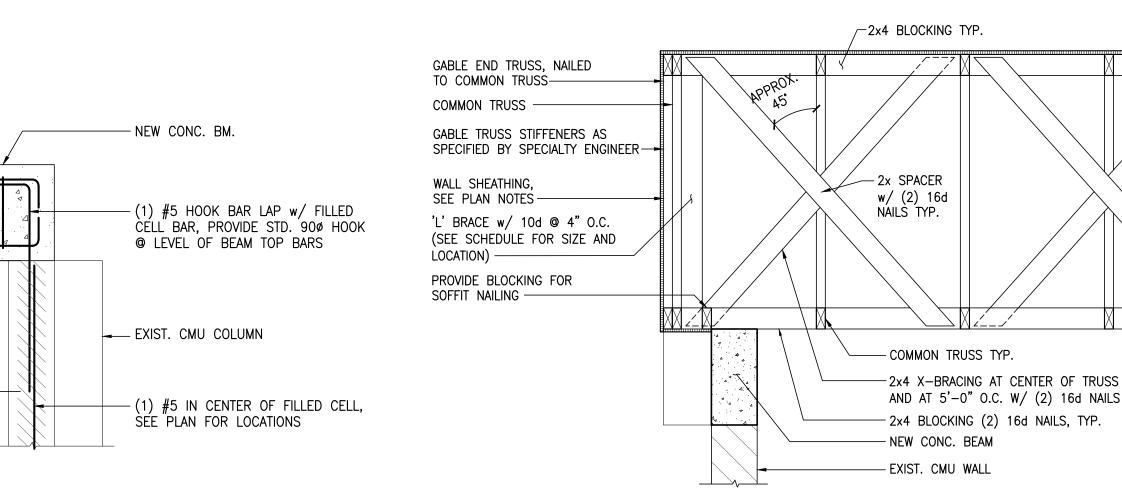
- 1. ROOF SHALL CONSIST OF PRE-ENGINEERED WOOD TRUSSES @ 24" O.C. U.N.O. TOP CHORD SHALL BE MIN. 2x6. SEE ARCH. DRAWINGS FOR SLOPING AND TRUSS PROFILES.
- 2. ROOF DIAPHRAGMS SHALL CONSIST OF 19/32" CDX APA RATED SHEATHING WITH 10d @ 6" PANEL EDGES AND INTERMEDIATE AND 4" @ CORNERS. 2X BLOCKING SHALL BE INSTALLED BETWEEN TRUSS CHORDS AT EACH END BEARING AND WITHIN 6" OF EACH INTERIOR BEARING POINT.
- 3. PROVIDE 15/32" CDX APA RATED SHEATHING ON UNDERSIDE OF TRUSSES EXPOSED TO WIND, FASTEN WITH 10d NAILS @ 6" O.C.
- 4. EXTERIOR WALL TRUSS SHEATHING SHALL CONSIST OF 15/32" CDX PLYWOOD FASTENED WITH 10d NAILS AT 6/4 SPACING WITH ALL PANEL EDGES BLOCKED, U.N.O. BY SPECIALTY ENGINEER.
- 5. PROVIDE CONTINUOUS 2x4 BOTTOM CHORD BRACING @ 10'-0" O.C. PERPENDICULAR TO SPAN OF TRUSS.
- 6. SPECIALTY ENGINEER REFER TO ARCHITECTURAL FOR REFLECTED CEILING PLAN.
- 7. CONTRACTOR VERIFY ALL CONNECTOR SIZES WITH SPECIALTY ENGINEER TRUSS DRAWINGS

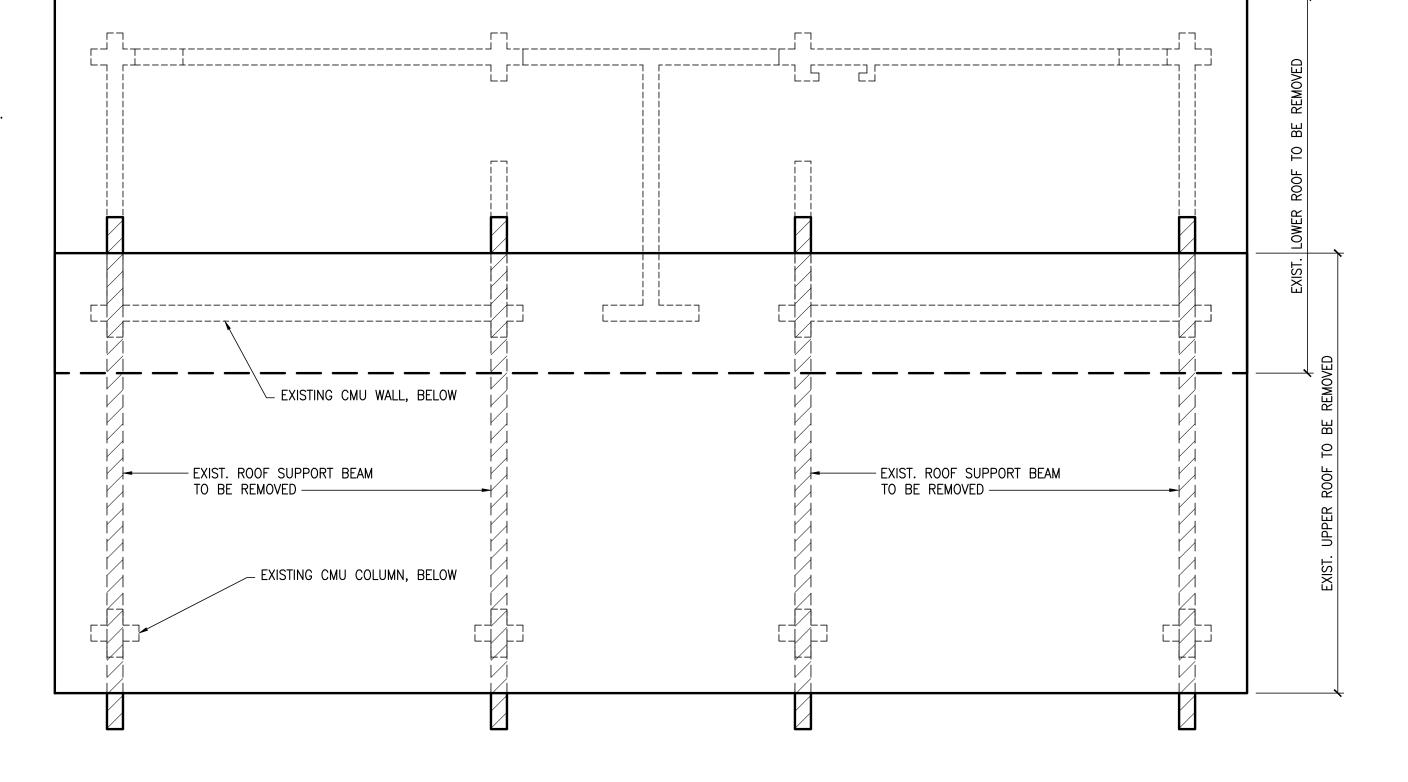
U=# # = UPLIFT, LBS, U.N.O.

	CONCRETE BEAM SCHEDULE										
	MARK	SIZE WxD:		REINFORCEMENT							
	IWAKK	(IN)	TOP	MIDDLE	воттом	STIRRUPS					
	TB-1	8 x 16	(2) #5	_	(2) #5	#3@18" O.C					
	TB-2	8 x 40	(2) #5	2x (2) #5	(2) #5	#3@18" O.C					
	B-1	8 x 16	(2) #5	_	(2) #5	#3@7" O.C.					

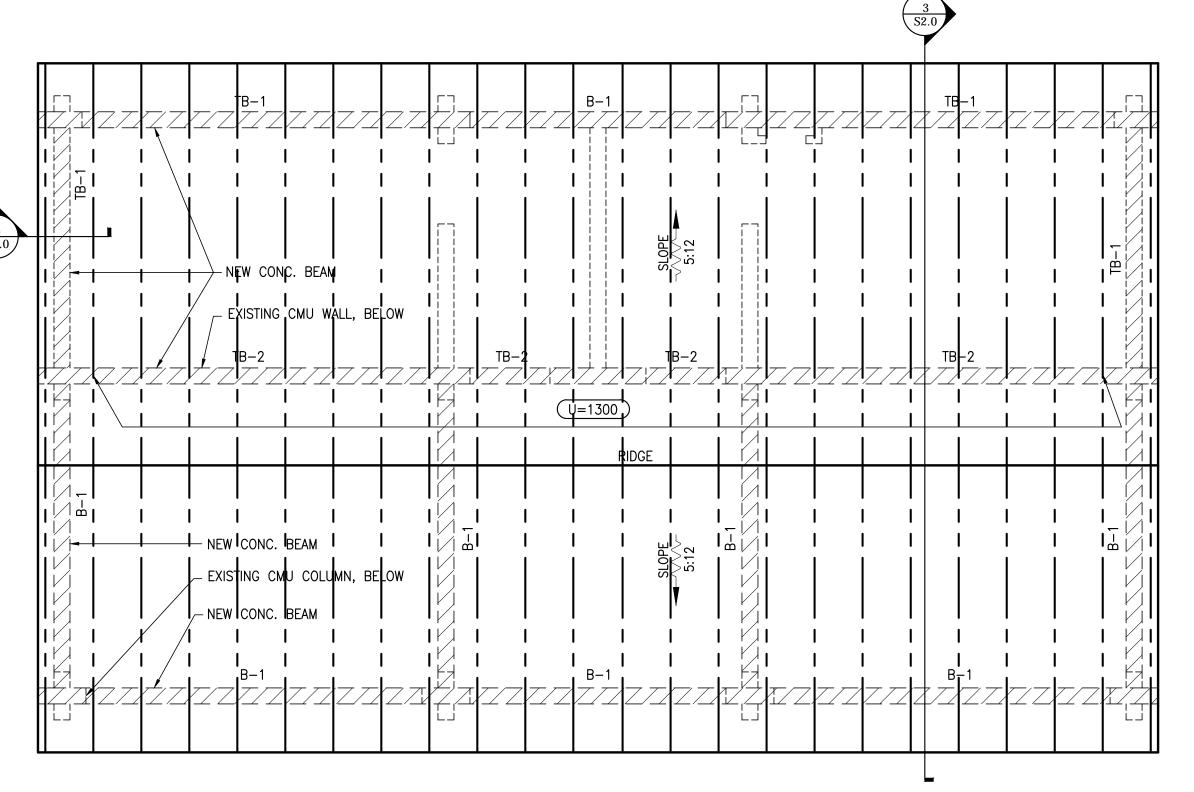


'L' BRACING REQUIREMENTS										
STUD SPACING	NO 'L' BRACE	(1) 2" x 4" 'L' BRACE	(2) 2" x 4" 'L' BRACE	(2) 2" x 6" 'L' BRACE						
16"	0'-0" - 4'-5"	4'-5" - 8'-0"	8'-0" - 12'-0"	12'-0" - 16'-0"						
24"	0'-0" - 4'-0"	4'-0" - 7'-0"	7'-0" - 10'-0"	10'-0" - 14'-0"						
SPECIALTY ENGINEER VERIFY										









FL. Cert. of Auth. # 8371 2017 Fiesta Drive Sarasota, FL 34231 (941) 927-8525/ Fax (941) 927-8075 John F Bonacci, PhD, PE FL. Registration # 63063

BEACHSIDE RESTROOM **NEW ROOF PLAN** 

**SCHENKEL**SHULTZ 677 North Washington Blvd.

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drawn: checked:

date: 04.13.2012 comm. no.: 0920829

RESTROOM -**ROOF PLAN** 

permit drawings

09DS-0395.03

Karins Engineering

Group, Inc.

BEAM BEARING @ CMU SUPPORTS

480 LAP

NOT TO SCALE



GABLE END X BRACING DETAILS



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1. ILLEAN DESCRIPTION AND ADMINISTRATION AND ADMINI	WORK. WHEN VERIFICATION OF EXISTING DIMENSIONS IS REQUIRED, THE CONTRACTOR REQUIRING SAID VERIFICATION FOR THE CONSTRUCTION OR FABRICATION OF HIS MATERIAL SHALL BE THE CONTRACTOR RESPONSIBLE FOR THE PROCUREMENT OF THE FIELD INFORMATION.  2. PROVIDE ALL WOOD BLOCKING NECESSARY FOR THE ATTACHMENT OF MISCELLANEOUS EQUIPMENT INCLUDING BUT NOT LIMITED TO TOILET ACCESSORIES,		
20 CONTROL CON	<ol> <li>THE TRANSITION OF DIFFERENT FLOORING MATERIALS AT A DOORWAY SHALL OCCUR AT THE CENTERLINE OF DOOR UNLESS INDICATED OTHERWISE.</li> <li>ALL WALL SURFACES, DOOR FRAMES, BULKHEADS AND CEILINGS SHALL RECEIVE PAINT WHEN PAINT IS INDICATED ON THE FINISH SCHEDULE OR FINISH PLANS. PAINT SURFACES BEHIND MOVABLE EQUIPMENT AND FURNITURE SAME AS SIMILAR EXPOSED SURFACES. PAINT SURFACES BEHIND PERMANENTLY FIXED EQUIPMENT OR FURNITURE WITH PRIME COAT ONLY BEFORE FINAL INSTALLATION OF EQUIPMENT. PAINT ALL MECHANICAL AND ELECTRICAL</li> </ol>		C
No   Nation   Nati	<ul> <li>6. ALL CUTTING AND PATCHING AS A RESULT OF NEW CONSTRUCTION OR DEMOLITION SHALL BE PERFORMED IN A WORKMANLIKE MANNER, AND SHALL MATCH IN COLOR, SHAPE, SIZE AND TEXTURE ADJACENT AND/OR CONTIGUOUS FINISHED SURFACES.</li> <li>7. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED MEASUREMENTS. DO NOT SCALE DRAWINGS.</li> </ul>		Bra Be
dra che			Ma 11 <sup>1</sup>
dra che dat			
che dat			
			che dat

# SCHENKELSHULTZ

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# Coquina Beach

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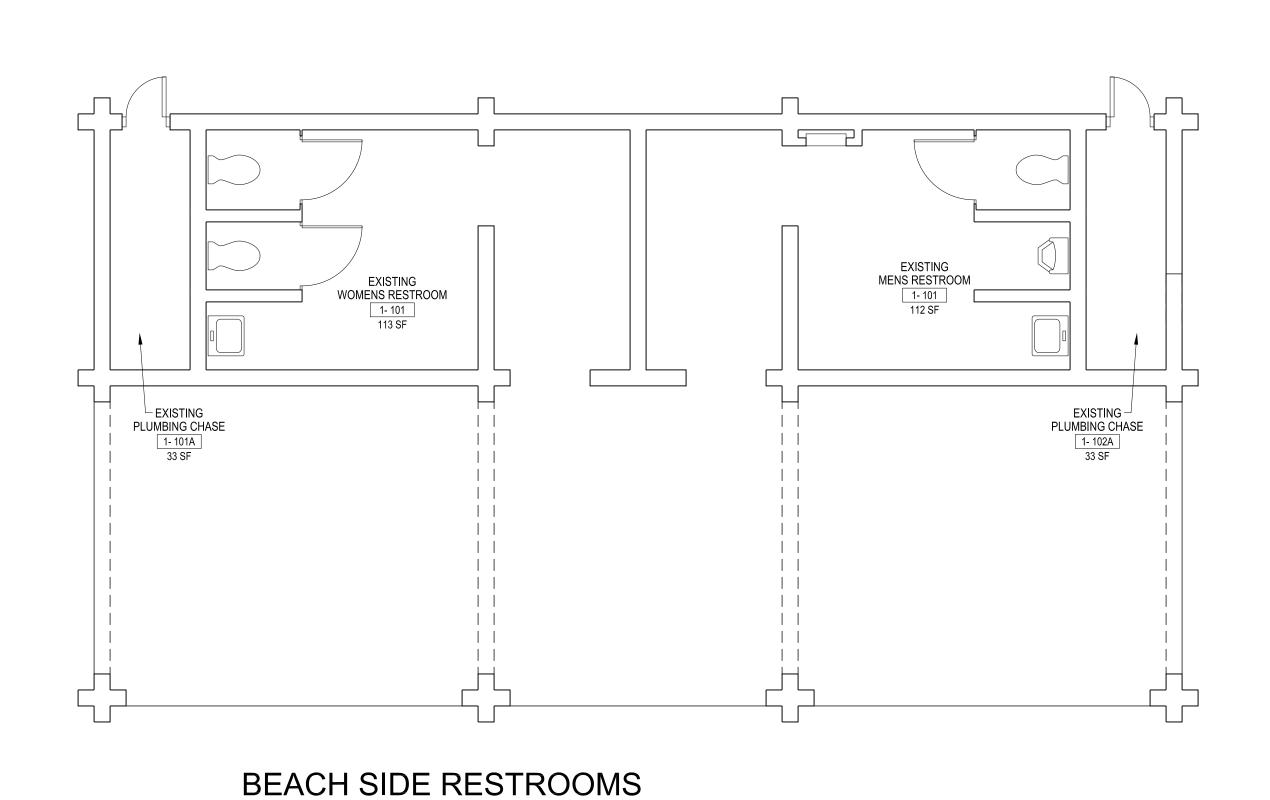
Beach Side Restrooms Renovations

Manatee County Government 1112 Manatee Avenue West Bradenton, Florida 34208

Irawn: JR :hecked: KD late: 04.13.12 :omm. no.: 0920829

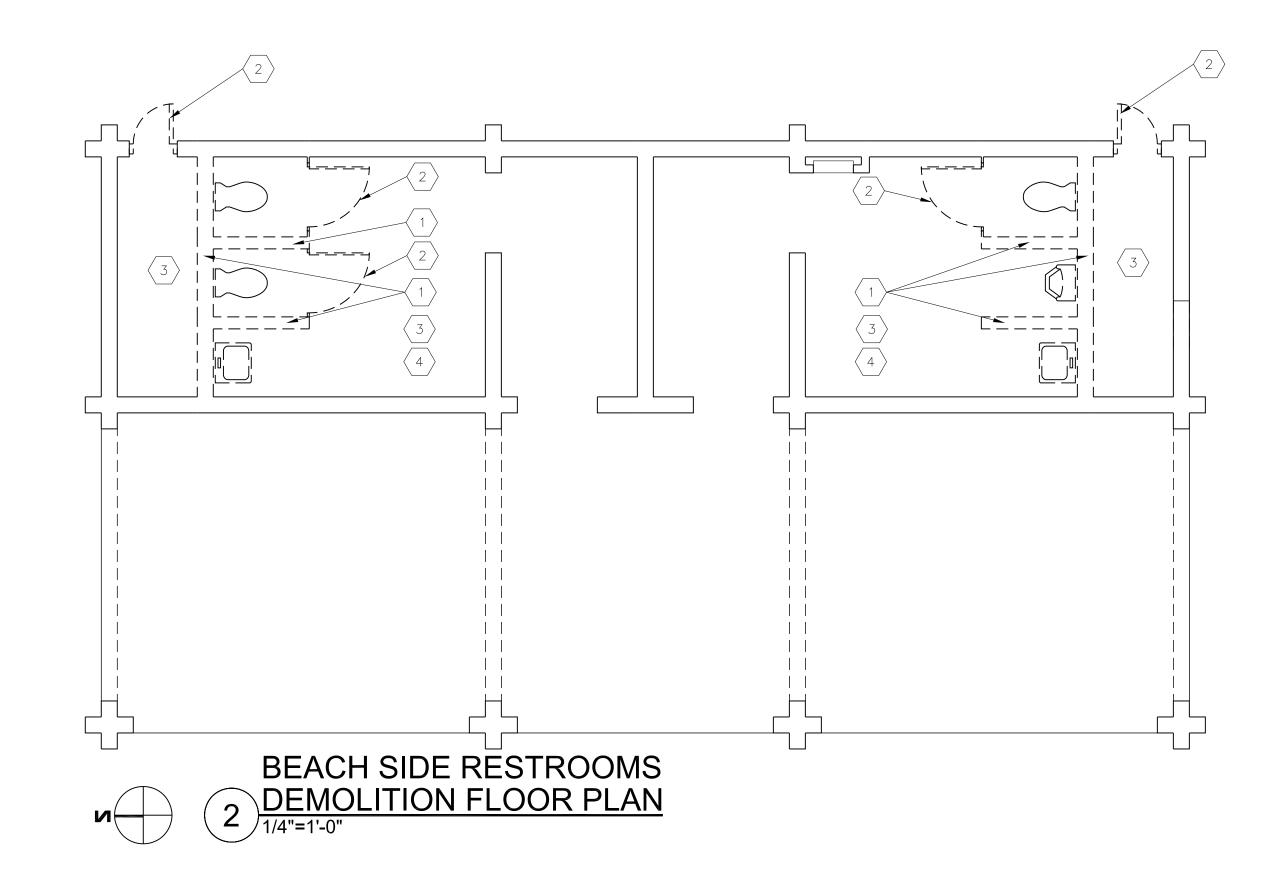
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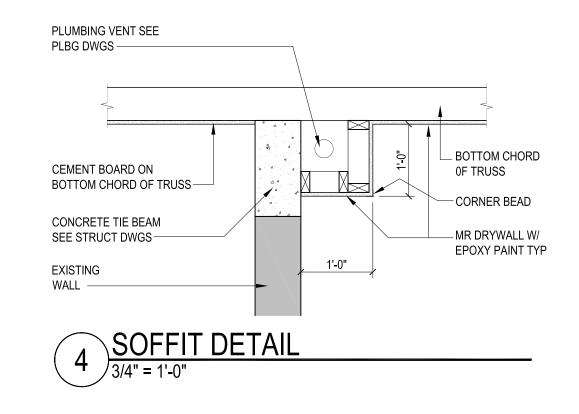
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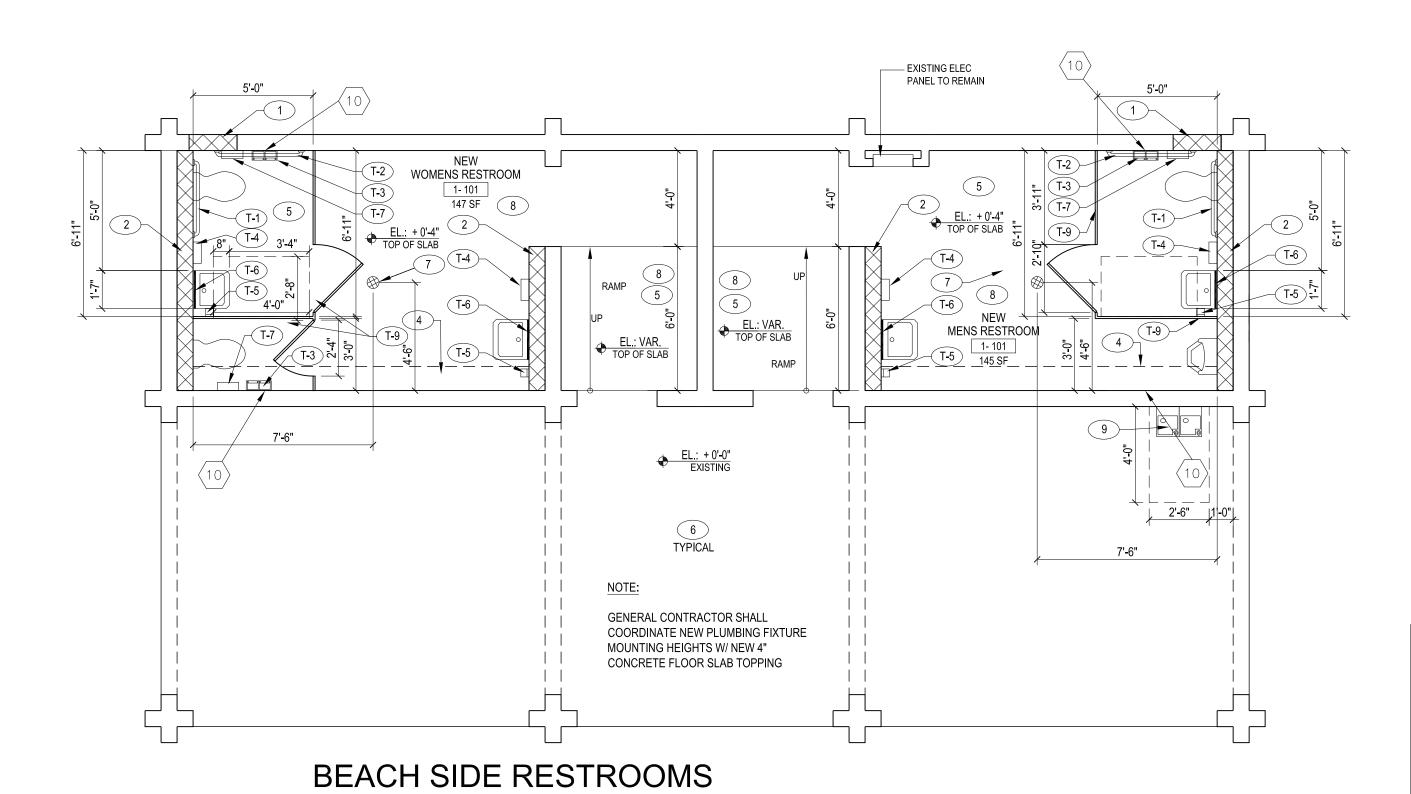


EXISTING FLOOR PLAN

3 FLOOR PLAN







WALL LEGEND **EXISTING CMU WALL** NEW CMU WALL

### **DEMOLITION NOTES:**

- REMOVE EXISTING INTERIOR NON-LOAD BEARING WALL. COORDINATE WITH STRUCTURAL DRAWINGS AND DETAILS. REMOVE EXISTING DOOR AND FRAME. REMOVE AND CAP OFF ALL PLUMBING NOT TO BE USED BY THE NEW
- PLAN LAYOUT. REMOVE ALL FIXTURES, FINISHES AND ACCESSORIES. COORDINATE WITH PLUMBING DRAWINGS REMOVE PORTION OF THE EXISTING SLAB FOR NEW PLUMBING. COORDINATE THE LOCATION OF THE SLAB ALTERATION WITH PLUMBING DRAWINGS. REPAIR AND PATCH PER STRUCTURAL DETAILS.

OILET	ACCESSORY SCHEDULE				Key Plan No
TAG	ACCESSORY	MTG HGT	MODEL NO.		
T-1	HORIZONTAL GRAB BAR - 36"	33" TO <b>€</b>	B-6806		NEW 8" x 8" x 16" CMU (TYPICAL *I SEE STRUCTURAL DRAWINGS FO PREPARE & PAINT
<b>T-2</b>	HORIZONTAL GRAB BAR - 42"	33" TO <b>﴿</b>	B-6806	2	NEW 8" x 8" x 16" CMU (TYPICAL *I SEE STRUCTURAL DRAWINGS FO PREPARE & PAINT
<b>T-3</b>	TOILET TISSUE DISPENSER	19 ¾" TO TOP	B-2740	3	EXISTING CMU WALL TO REMAIN. DRAWINGS FOR MORE INFORMA
(T-4)	ELECTRIC HAND DRVED	54" TO TOP	055 05500	4	SOFFIT FOR VENT PIPE SEE 4/A10
	ELECTRIC HAND DRYER	54 TO TOP	SEE SPECS	5	INTERIOR SURFACES (WALLS AN PAINTED WITH EPOXY PAINT PER
<b>T-5</b>	SURFACE MOUNTED SOAP DISPENSER	50 5/8" TO TOP	B-132		COLOR COORDINATE WITH OWN
				6	PREPARE & PAINT ALL EXISTING SPECIFICATIONS.
(T-6)	CHANNEL FRAME MIRROR	40" TO BOTTOM	B-165	7	NEW FLOOR DRAIN TO TIE INTO E PLUMBING LINES. REFER TO SHE
<b>T-7</b>	SANITARY NAPKIN DISPENSER	25" TO 30" TOP	B-270	8	SEAL EXISTING/NEW FLOOR SLAI
(T-8)	UTILITY SHELF W/ MOP/BROOM HOLDERS	72" AFF	B-239	9	HI-LOW DRINKING FOUNTAIN PER SHEET P101.
	OTIENT GREEF WY WICH / DICOGWITHOLDERO	12 / 11	D-233	10	PATCH & REPAIR CMU WALLS WE REMOVED PRIOR TO PAINTING.
(T-9)	TOILET PARTITION	SEE S	SPECS		* UNLESS NOTED OTHERWISE

# ey Plan Notes

EW 8" x 8" x 16" CMU (TYPICAL \*U.N.O.) EXTERIOR WALL. EE STRUCTURAL DRAWINGS FOR WALL DESCRIPTION. REPARE & PAINT EW 8" x 8" x 16" CMU (TYPICAL \*U.N.O.) INTERIOR WALL. EE STRUCTURAL DRAWINGS FOR WALL DESCRIPTION.

EPARE & PAINT (ISTING CMU WALL TO REMAIN. SEE STRUCTURAL RAWINGS FOR MORE INFORMATION. OFFIT FOR VENT PIPE SEE 4/A101.

TERIOR SURFACES (WALLS AND CEILINGS) SHALL BE AINTED WITH EPOXY PAINT PER SPECIFICÁTIONS. FOR DLOR COORDINATE WITH OWNER/ARCHITECT. REPARE & PAINT ALL EXISTING & NEW CMU WALLS, SEE

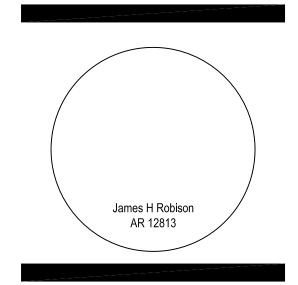
PECIFICATIONS. EW FLOOR DRAIN TO TIE INTO EXISTING WASTE UMBING LINES. REFER TO SHEET P101. EAL EXISTING/NEW FLOOR SLAB PER SPECIFICATIONS -LOW DRINKING FOUNTAIN PER SPECIFICATIONS &

TCH & REPAIR CMU WALLS WHERE EXISTING WALL

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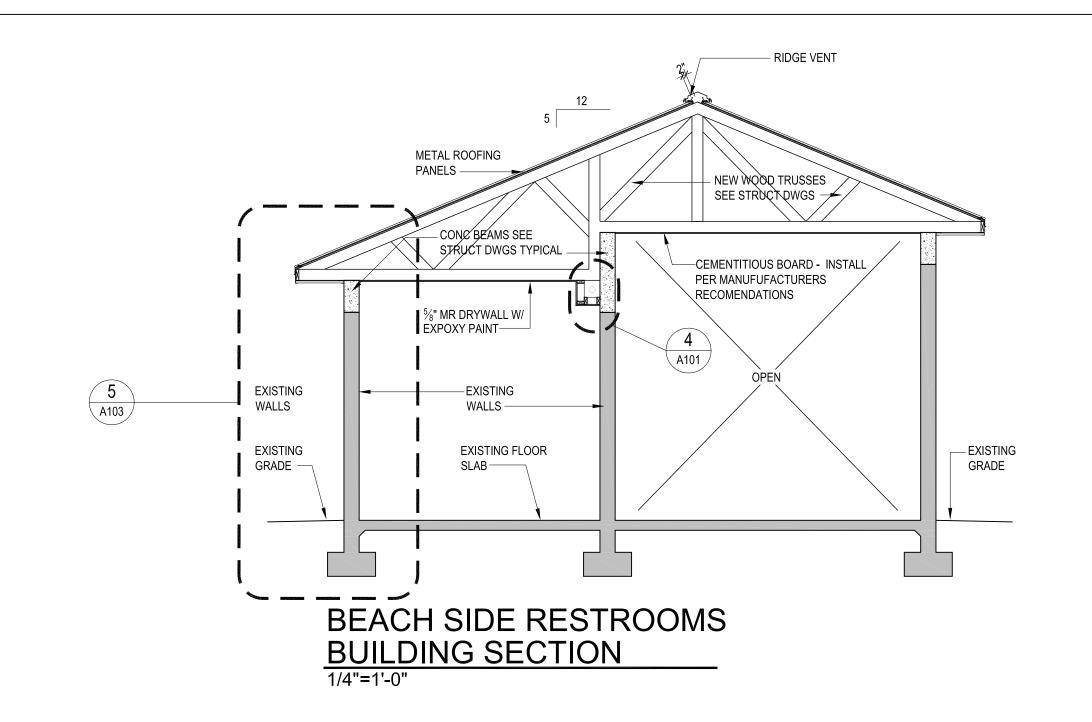
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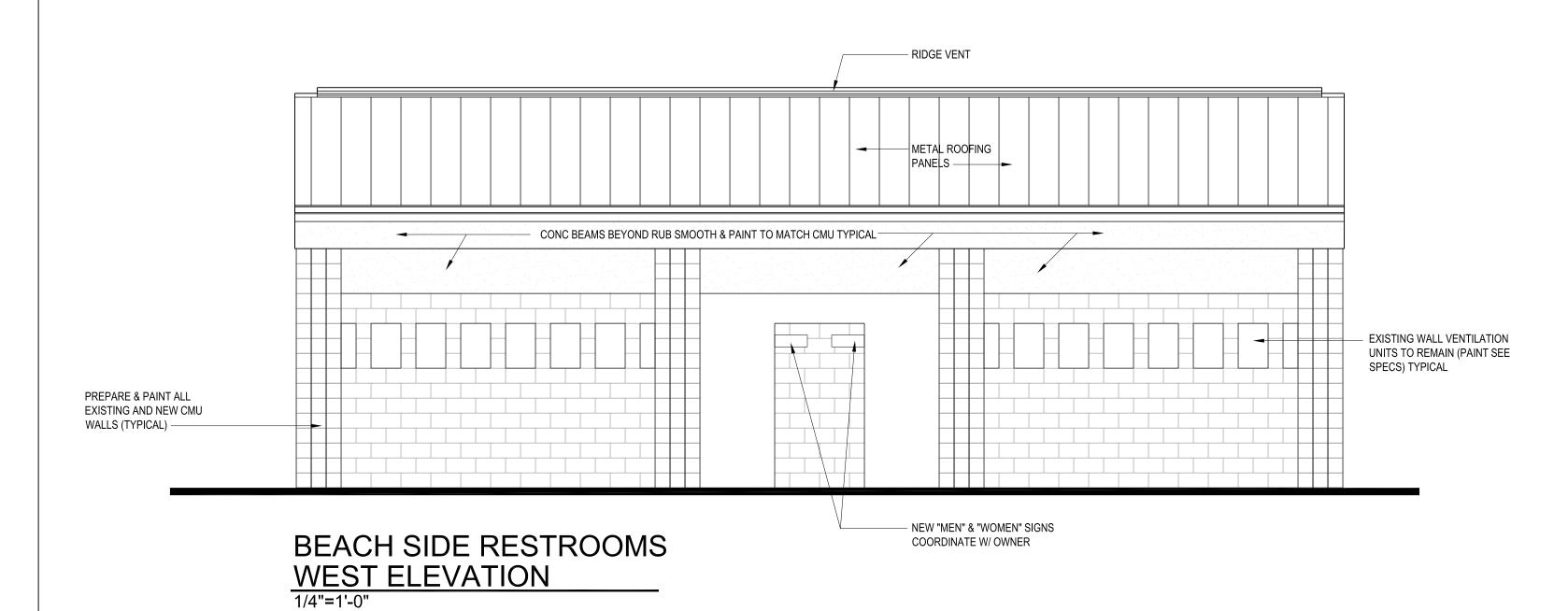
Beach Side Restroom Renovation

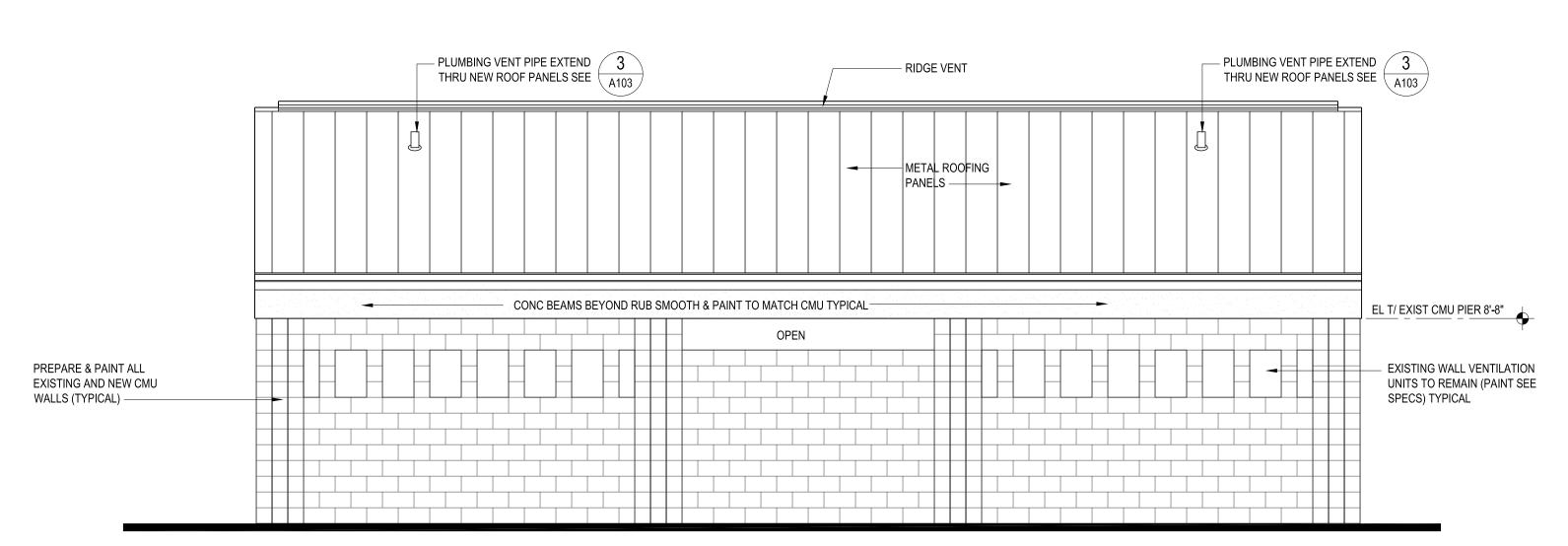
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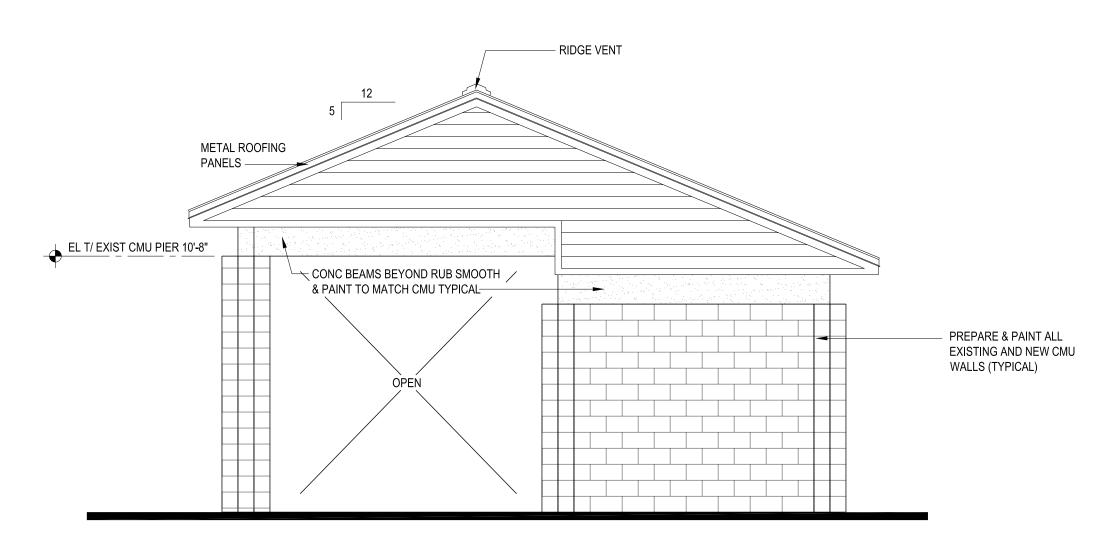
FLOOR PLANS



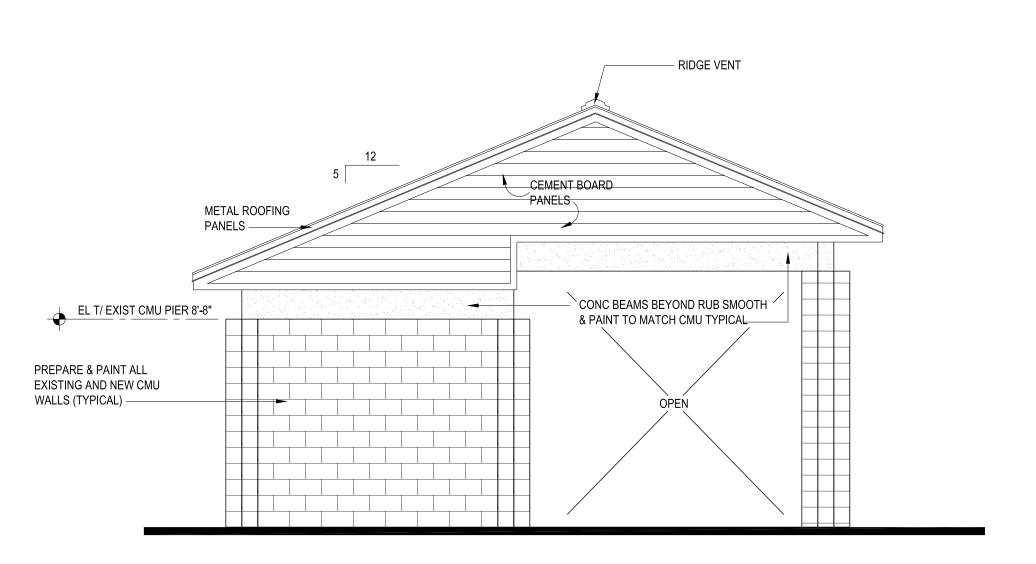




BEACH SIDE RESTROOMS
EAST ELEVATION



# BEACH SIDE RESTROOMS SOUTH ELEVATION 1/4"=1'-0"



BEACH SIDE RESTROOMS NORTH ELEVATIONS

#### 

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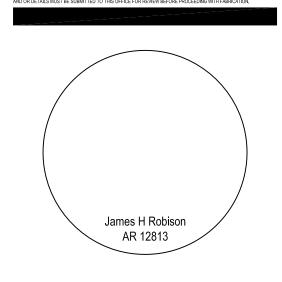
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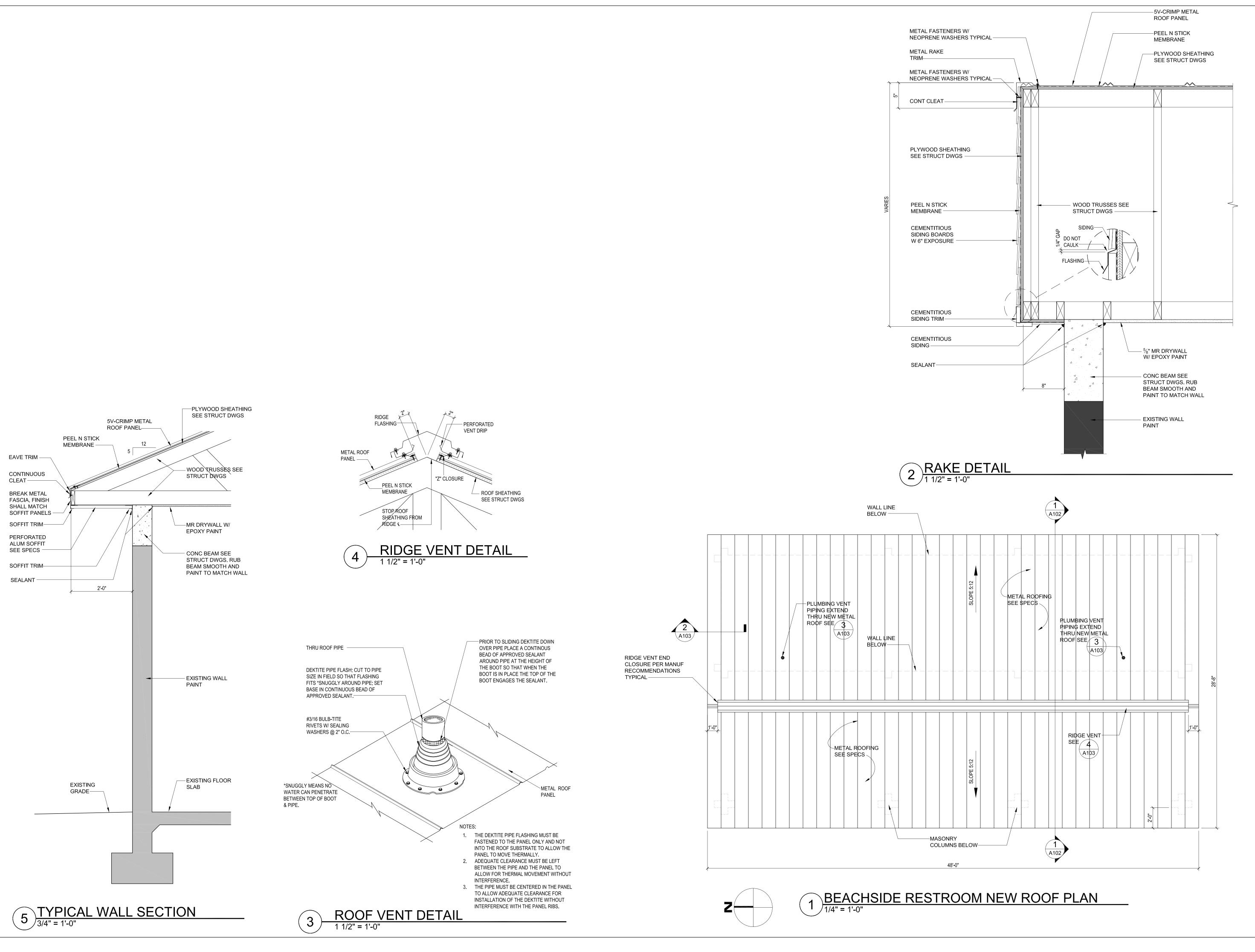
Beach Side Restroom Renovation

Manatee County Government 1112 Manatee Avenue West Bradenton, Florida 34208

drawn: JR
checked: KD
date: 04.13.12
comm. no.: 0920829

EXTERIOR
ELEVATIONS &
BUILDING SECTION

A102



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## Coquina Beach

2650 Gulf Drive South Bradenton, Florida 34217

Beach Side Restroom Renovation

Manatee County Government 1112 Manatee Avenue West Bradenton, Florida 34208

drawn: JR
checked: KD
date: 04.13.12
comm. no.: 0920829

ROOF PLAN AND DETAILS

A103

GENERAL NOTES ELECTRICAL

GENERAL NOTES APPLY TO ALL ELECTRICAL DRAWINGS.

- 1. DO NOT SCALE FROM THESE DRAWINGS.
- 2. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- 3. THE DIVISION 26 CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES TO ASSURE PROPER CLEARANCES FOR EQUIPMENT AND TO KEEP THE JOB PROGRESSING.
- 4. ALL CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTIVE CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL REFLECTIVE CEILING PLANS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.
- 5. ALL EXTERIOR WIRING DEVICES TO BE WEATHERPROOF AND SHALL BE G.F.I. TYPE.
- 6. CONDUIT RUNS SHOWN ARE DIAGRAMMATIC IN NATURE. DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER NEC AND FOR COORDINATION WITH OTHER DISCIPLINES.
- 7. ALL FLUORESCENT LIGHT FIXTURES SHALL BE FURNISHED WITH INTEGRAL FUSING.
- 8. PROVIDE 2#12AWG + 1#12AWG EQUIPMENT GROUND COPPER IN 3/4" CONDUIT FOR ALL 120V BRANCH CIRCUITS U.O.N.. PROVIDE #10AWG COPPËR CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET.
- 9. ALL FREE-WIRED CABLING SHALL BE PLENUM-RATED UNLESS OTHERWISE NOTED.
- 10. ALL ELECTRICAL DEVICES AND ASSOCIATED COVERPLATES SHALL BE WHITE UNLESS OTHERWISE NOTED.
- 11. ALL EQUIPMENT ABOVE 49V SHALL BE INSTALLED ABOVE FEMA FLOOD PLAN ELEVATION. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.

#### ABBREVIATIONS NOTE: ALL ABBREVIATIONS MAY NOT BE USED. MINIMUM CIRCUIT AMPS SINGLE POLE SINGLE-PHASE MAIN CIRCUIT BREAKER MAIN DISTRIBUTION PANEL THREE-PHASE A OR AMP AMPERE MINIMUM ABOVE FINISHED FLOOR MAIN LUGS ONLY ABOVE FINISHED GRADE MOCP MAXIMUM OVER CURRENT AMPERE INTERRUPTING PROTECTION NATIONAL ELECTRICAL CODE CAPACITY AWG AMERICAN WIRE GAUGE NEW LOCATION OF EXISTING CIRCUIT BREAKER PHASE CIRCUIT CLG CEILING (TYPICALLY CEILING EXISTING TO BE REMOVED MOUNTED) EXISTING TO BE RELOCATED CONSTRUCTION MANAGER EXISTING TO BE REPLACED COPPER RIGID METAL CONDUIT EQUIPMENT SURGE PROTECTION DEVICE ELECTRICAL METALLIC TUBING TO BE DETERMINED EXISTING TO REMAIN FIRE ALARM UON OR UNO UNLESS OTHERWISE NOTED FACP FIRE ALARM CONTROL PANEL UNINTERRUPTIBLE POWER FULL LOAD AMPS SUPPLY G OR GRD GROUND GROUND FAULT CIRCUIT VOLT AMPERE INTERRUPTER VARIABLE FREQUENCY DRIVE HORSE POWER WEATHERPROOF, FULLY J-BOX JUNCTION BOX GASKETED ALUMINUM BACKBOX KILOVOLT AMPERE WITH IMC RACEWAY AND KILOWATT THREADED FITTINGS. PROVIDE KILOWATT HOUR COMPONENTS WITH U.L. WET LOAD CENTER LIGHT EMITTING DIODE XFMR TRANSFORMER LIQUID TIGHT FLEXIBLE METAL LFMC CONDUIT

#### NOTE: NOT ALL SYMBOLS SHOWN ON LEGEND ARE USED ON FLOOR PLANS.

#### WIRING DEVICES - REFER TO THE SPECIFICATIONS

NOTE: RECEPTACLES SHALL BE VERTICALLY MOUNTED WITH THE GROUND PIN HOLE LOCATED AT THE "TWELVE O'CLOCK" (TOP OF DEVICE) POSITION U.N.O.

NOTE: THE FOLLOWING ABBREVIATIONS APPLY TO WIRING DEVICES WHERE INDICATED: 'EWC' INDICATES DEVICE MOUNTED BEHIND ELECTRIC WATER COOLER ENCLOSURE. COORDINATE DEVICE LOCATION WITH PLUMBING

CONTRACTOR AND APPROVED PLUMBING SHOP DRAWINGS PRIOR TO ROUGH-IN. 'WP' INDICATES WEATHERPROOF FULLY GASKETED CAST ALUMINUM BACKBOX, IMC RACEWAY WITH THREADED FITTINGS AND UL WET LABELED "IN-USE" COVER. PROVIDE THOMAS AND BETTS RED DOT CODE KEEPER No. CKSGV SERIES. PAINT TO MATCH BUILDING COLOR. ALL RECEPTACLE COVERS TO BE NEMA 3R RATED AND LOCKABLE.

- SPECIFICATION GRADE TAMPER-RESISTANT GFCI TYPE DUPLEX RECEPTACLE, 20 AMP, HEAVY DUTY, SURFACE MOUNT 36"AFF TO CENTER OF BACKBOX U.N.O.
- SPECIFICATION GRADE TAMPER-RESISTANT GFCI TYPE DUPLEX RECEPTACLE, 20 AMP, HEAVY DUTY, SURFACE MOUNT ABOVE SINK, COUNTER, CASEWORK, ETC. INSTALL AT 48" AFF U.O.N.. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND/OR EXISTING CONDITIONS PRIOR TO ROUGH-IN.
- SPECIFICATION GRADE TAMPER-RESISTANT GFCI TYPE DOUBLE DUPLEX RECEPTACLE WITH COMMON COVERPLATE, 20 AMP, HEAVY DUTY, SURFACE MOUNT ABOVE SINK, COUNTER, CASEWORK, ETC. INSTALL AT 48" AFF U.O.N.. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND/OR EXISTING CONDITIONS PRIOR TO ROUGH-IN.

#### POWER DISTRIBUTION

**EXISTING PANELBOARD** 

HOMERUN TO PANELBOARD WITH CIRCUIT(S) INDICATED. PROVIDE 2#12 CU, 1#12 CU GROUND IN 3/4" CONDUIT U.N.O. ON DRAWINGS AND/OR IN SPECIFICATIONS

### ELECTRICAL LEGEND

### LIGHTING FIXTURES - REFER TO THE LIGHTING FIXTURE SCHEDULE

NOTE: THE FOLLOWING ABBREVIATIONS APPLY TO LIGHTING FIXTURES WHERE INDICATED: 'NL' INDICATES NIGHT LIGHT

UPPER CASE LETTER (i.e. 'A') INDICATES FIXTURE TYPE.

NUMBER (i.e. 1) INDICÀTES BRANCH CIRCUIT NUMBER. LOWER CASE LÉTTER (i.e. 'a') INDICATES SWITCH CONTROLLING FIXTURE.

FLUORESCENT LIGHTING FIXTURE, 1'x4', SURFACE MOUNT TO CEILING

SINGLE FACE EXIT SIGN WITH BATTERY PACK. CONNECT TO UNSWITCHED PHASE CONDUCTOR OF GENERAL LIGHTING CIRCUIT USED IN SPACE WHERE FIXTURE IS SHOWN OR TO CIRCUIT INDICATED DUAL HEAD EMERGENCY LIGHTING FIXTURE WITH BATTERY PACK, WALL

MOUNT 7'-6"AFF OR 6" BELOW CEILING TO TOP OF BACKBOX, WHICHEVER IS LOWER U.N.O.. CONNECT TO UNSWITCHED PHASE CONDUCTOR OF GENERAL LIGHTING CIRCUIT USED IN SPACE WHERE FIXTURE IS SHOWN OR TO CIRCUIT INDICATED

#### SWITCHES (FINAL COLOR SELECTION BY ARCHITECT)

SINGLE POLE SWITCH, RECESS MOUNT 44"AFF TO CENTER OF BACKBOX. LOWER CASE LETTER (i.e. 'a') INDICATES THE FIXTURE(S) CONTROLLED BY THE SWITCH.

#### OCCUPANCY SENSOR (FINAL COLOR SELECTION BY ARCHITECT)

PROVIDE COMMERCIAL GRADE OCCUPANCY SENSOR FOR LIGHTING CONTROL. SEE LIGHTING CONTROL SCHEDULE FOR DEVICE DETAILS. BASIS OF DESIGN IS WATTSTOPPER.

#### MISCELLANEOUS

DETAIL INDICATOR. REFER TO REFERENCED DETAIL

# (#) NOTE INDICATOR. REFER TO THE "KEY NOTES" WHERE INDICATED

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> WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALE
> DIMENSIONS, CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL
> DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM THE REQUIREMENT OF MEETING OR EXCEEDING THE PLANS AND SPECIFICATIONS CONFIDENTIAL COPYRIGHT 2006 SCHENKELSHULTZ. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER 18 U.S.C. SEC. 506. UNAUTHORIZED DISCLOSURE MAY CONSTITUTE A VIOLATION OF APPLICABLE STATE AND FEDERAL LAW THE IDEAS, ARRANGEMENTS AND DESIGNS DISCLOSED HEREIN MAY BE PATENTED OR BE THE SUBJECT OF PENDING PATENT APPLICATION.

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Designed: B.P.Z. ME3 Job No: 10-0195-03
Checked: S.T.P. Date: 10/22/2010
Drawn: B.P.Z. C.O.A. 27552 Copyright 2010 ME3 All rights reserved

TO THE BEST OF MY KNOWLEDGE, SAID PLANS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE BUILDING CODES.

### Coquina Beach

2650 Gulf Drive South

Renovation

Beach Side Restroom

Bradenton, Florida 34217

**Manatee County Government** 

1112 Manatee Avenue West Bradenton, Florida 34208

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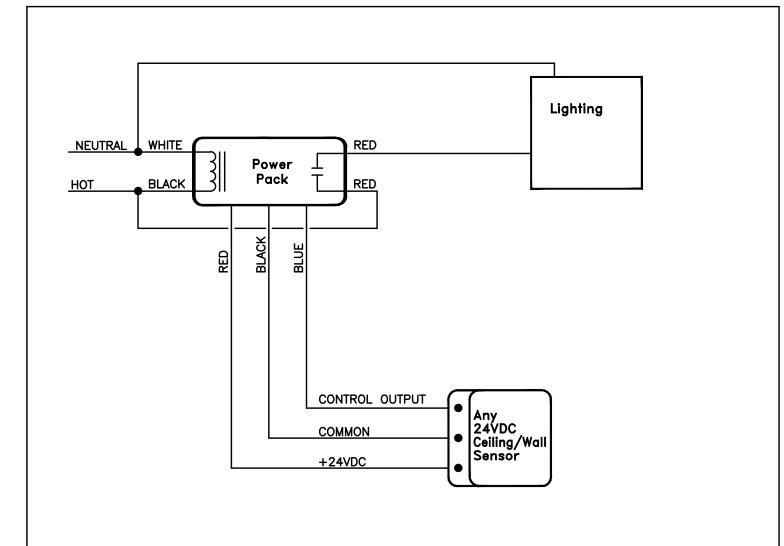
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**ELECTRICAL LEGEND** 

	CUPANCY SENSOR LEGEN ANATEE COUNTY PARKS A	_ ,	
TYPE	DESCRIPTION	MANUFACTURER/ CATALOG NUMBER	SEE SCHEDULE NOTES
(5)→	CEILING MOUNTED, ULTRASONIC OCCUPANCY SENSOR, 24V, TWO—SIDED, UP TO 360 DEGREES AND 500 SQUARE FEET OF DETECTION AND ADJUSTABLE "LIGHTS OFF" TIME SELECTION	WATTSTOPPER W-500A SERIES	1,2

#### **GENERAL NOTES:**

- A. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
- B. ULTRASONIC CEILING MOUNTED SENSORS REQUIRE THEY BE LOCATED NO CLOSER THAN SIX FEET TO HVAC SUPPLY/RETURN REGISTERS.
- C. THE DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR THE FINAL PROPER SENSITIVITY AND TIME DELAY SETTINGS, VERIFICATION OF MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT. IF NO DIRECTION IS GIVEN AND UNLESS OTHERWISE DIRECTED BY THE OWNER/TENANT, SET THE SENSITIVITY TO MAXIMUM AND THE TIME DELAY TO 30 MINUTES FOR EACH SENSOR.
- D. PROVIDE A COMPLETE SUBMITTAL PACKAGE TO THE ENGINEER INCLUDING .DWG FILES FOR WIRING DIAGRAMS.
- E. PROVIDE ACCESS DOOR OR PANELS TO POWER PACKS ABOVE GYPBOARD CEILINGS.
- F. PROVIDE A CIRCULAR ORANGE (DOT) STICKER ON THE GRID OR ACCESS DOOR TO MARK THE LOCATION(S) OF THE POWER PACK(S) FOR FUTURE OWNER/TENANT MAINTENANCE.
- SCHEDULE NOTES (APPLICABLE WHERE REFERENCED):
- 1. THE DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR THE FINAL FIELD VERIFICATION OF THE REQUIRED NUMBER OF POWER PACKS. THE DIVISION 26 CONTRACTOR SHOULD PROVIDE:
- A. PROVIDE ONE POWER PACK PER SENSOR FOR EACH SPACE/AREA THAT IS TO BE CONTROLLED. PROVIDE AN ADDITIONAL POWER PACK FOR EACH EXHAUST FAN IN THE SAME SPACE AS THE SENSOR. WIRE THESE IN
- B. IF REQUIRED, PROVIDE ADDITIONAL POWER PACKS WHERE THE MAXIMUM NUMBER OF SENSORS THAT CAN BE WIRED IN PARALLEL TO A SINGLE POWER PACK IS DEPENDENT ON SENSOR MODEL (SEE INDIVIDUAL DATA SHEETS FOR mA CONSUMPTION).
- 2. DEVICE SHOULD BE WHITE IN COLOR FINAL COLOR SELECTION BY ARCHITECT.



TYPICAL WIRING FOR OCCUPANCY SENSOR W-500 SERIES

#### LIGHTING FIXTURE SCHEDULE - MANATEE COUNTY PARKS & RECREATION

	=1.4				L	AMP INFORMATION	TOTAL	SEE
	FIX. TYPE	DESCRIPTION	MANUFACTURER / CATALOG NUMBER	VOLTS	QTY	TYPE	INPUT WATTS	SCHEDULE NOTES
	A	4 FT LONG FLUORESCENT EXTREME ENVIRONMENT, VANDAL RESISTANT VAPORTIGHT, IP65 RATED, WITH ELECTRONIC BALLAST AND STAINLESS HARDWARE	COLUMBIA FNPS4-232-PADR-EPU- GLR-MLID  DAY BRITE LIGHTING EQUIVALENT  COOPER LIGHTING EQUIVALENT	120	2	32W T8-4100K	60W	4
•	EL	VANDAL RESISTANT DUAL HEAD EMERGENCY LIGHTING FIXTURE WITH BATTERY PACK AND WIRE GUARD	DUAL LITE EZ-2I-VRS-WGEL  DAY BRITE LIGHTING EQUIVALENT  COOPER LIGHTING EQUIVALENT	120		FACTORY INSTALLED LAMPS	20W	1,2
	X OR X1	VANDAL RESISTANT SINGLE FACE EXIT SIGN WITH GREEN LETTERS, BATTERY PACK AND WIRE GUARD	DUAL LITE SCSGWE-WGLX  DAY BRITE LIGHTING EQUIVALENT  COOPER LIGHTING EQUIVALENT	120		FACTORY INSTALLED LAMPS	3.5W	1,2,3

A. FIXTURES PROPOSED AS EQUIVALENT TO SPECIFIED FIXTURES SHALL BE JUDGED ON EFFICIENCY, PERFORMANCE AND CONSTRUCTION, NOT FIXTURE CONSTRUCTION ALONE. THE ENGINEER WILL RESERVE THE RIGHT TO DETERMINE FIXTURE EQUIVALENTS BASED ON THE GRADE OF FIXTURES SUBMITTED AND THEIR CATALOG SERIES.

B. LIGHTING FIXTURE SUBMITTAL CUT SHEETS SHALL INCLUDE INFORMATION ON HOW THE FIXTURE CATALOG NUMBER IS COMPILED AND SHALL INCLUDE CUT SHEETS OF ALL OPTIONAL COMPONENTS, SUCH AS DRY WALL FRAME-IN-KITS, ETC. PROVIDE FIXTURE INPUT WATTS AND LUMEN OUTPUTS FOR EACH FIXTURE TYPE SUBMITTED.

C. LIGHTING FIXTURES SHALL BE SUPPORTED PER NEC ARTICLE 410 WHERE APPLICABLE.

PROVIDE PROGRAMMED START ELECTRONIC BALLAST(S) FOR FLUORESCENT LIGHTING FIXTURES FROM ONE OF THE FOLLOWING MANUFACTURERS: SYLVANIA #QHE2X32T8 SERIES OR ADVANCE #VCN2S32S35M SERIES. NO OTHER SUBSTITUTIONS ARE PERMITTED REGARDLESS OF FIXTURE CATALOG NUMBER NOMENCLATURE. PROVIDE UNIVERSAL BALLAST VOLTAGE REGARDLESS OF CATALOG

E. PROVIDE FLUORESCENT FIXTURES MOUNTED OUTSIDE BUILDING WITH A COLD WEATHER BALLAST REGARDLESS OF FIXTURE CATALOG NUMBER NOMENCLATURE.

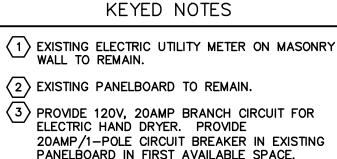
F. PROVIDE FLUORESCENT FIXTURES WITH INLINE FUSE(S) LOCATED ON LINE SIDE OF FIXTURE BALLAST REGARDLESS OF FIXTURE CATALOG NUMBER.

G. PROVIDE LAMPS FOR FLUORESCENT LIGHTING FIXTURES FROM ONE OF THE FOLLOWING MANUFACTURERS: OSRAM/SYLVANIA OR PHILLIPS. THE T8 LAMPS SPECIFIED ARE FOUR FEET IN LENGTH UNLESS NOTED OTHERWISE. NO OTHER SUBSTITUTIONS ARE PERMITTED. ALL FLUORESCENT LAMPS SHALL BE OF THE LOW MERCURY TYPE, SUCH THAT THE AVERAGE MERCURY CONTENT IS LESS THAN 70 PICOGRAMS OF MERCURY PER LUMEN-HOUR OF LIFE. LAMPS FOR H.I.D FIXTURES SHALL BE FROM THE SAME MANUFACTURER AS THE FLUORESCENT LAMPS.

MANUFACTURER'S REPRESENTATIVE FOR MOST OF THE ABOVE PRODUCT LINES IS WESTERN FLORIDA LIGHTING, TAMPA. CONTACT JEFF MORRIS FOR ASSISTANCE IN SUBMITTAL PREPARATION.

THE ONLY LIGHTING FIXTURE MANUFACTURERS (AND THEIR ASSOCIATED DOWNSTREAM PRODUCT LINES) APPROVED FOR THIS PROJECT INCLUDE DAY-BRITE, COOPER AND HUBBELL LIGHTING.

- J. NOT ALL OF THE FIXTURES SCHEDULES MAY BE SPECIFIED FOR THIS PORTION OF THE PROJECT.
- SCHEDULE NOTES: (APPLICABLE WHERE REFERENCED)
- 1. COORDINATE COLOR WITH ARCHITECT AT SHOP DRAWING STAGE. FINAL FIXTURE COLOR SELECTION BY ARCHITECT.
- 2. PROVIDE HARDWARE AS REQUIRED FOR THIS FIXTURE TO BE WALL MOUNTED.
- CONTRACTOR SHALL COORDINATE DIRECTION OF ARROW(S) ON FACE OF EXIT SIGN(S) PRIOR TO ORDERING SIGNS. SEE LIGHTING FLOOR PLANS FOR QUANTITY AND DIRECTION OF ARROW(S).
- 4. PROVIDE THE METAL STRUT AND HARDWARE REQUIRED TO INSTALL THE FIXTURES FROM THE STRUCTURAL FRAMING.



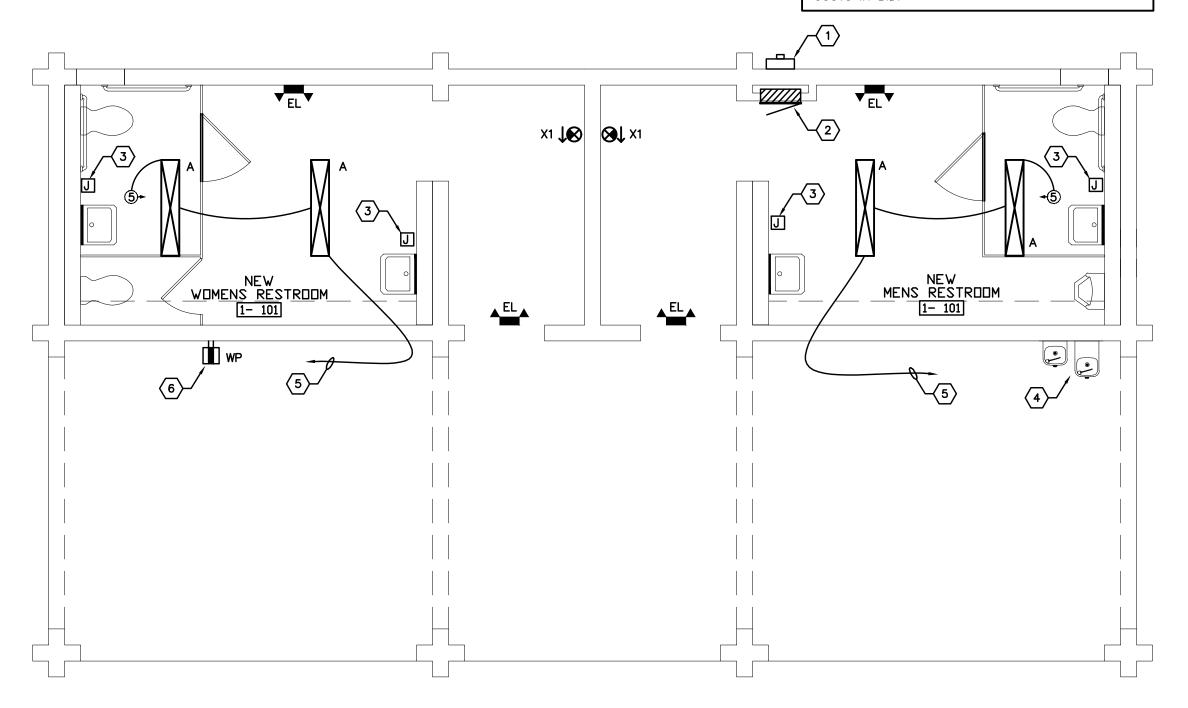
- (3) PROVIDE 120V, 20AMP BRANCH CIRCUIT FOR 20AMP/1-POLE CIRCUIT BREAKER IN EXISTING PANELBOARD IN FIRST AVAILABLE SPACE. MATCH TYPE AND RATINGS. UPDATE PANELBOARD SCHEDULE.
- POWER IS NOT REQUIRED FOR HI-LO DRINKING FOUNTAIN.
- (5) REPLACE EXISTING LIGHTING BRANCH CIRCUIT.
- 6 REPLACE EXISTING GFI RECEPTACLE AND PROVIDE WEATHERPROOF COVER AS SPECIFIED IN ELECTRICAL LEGEND NOTES.

GENERAL ELECTRICAL NOTES PROVIDE ALL LIGHTING FIXTURES AND CIRCUITS

SHOWN. ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED ABOVE 3'-0"AFF DUE TO THE FLOOD PLAIN ELEVATION. 2. ALL CONDUITS MAY BE SURFACE MOUNTED ON THE EXISTING CMU BLOCK WALLS. PROVIDE IMC OR

- RGC CONDUIT WITH THREADED FITTINGS FOR ALL WORK. ALL BOXES MUST BE CAST BOXES WITH THREADED FITTINGS. PAINT ALL CONDUIT TO MATCH THE ARCHITECTURAL COLOR AND THEME.
- 3. PROVIDE LIGHTING FIXTURE 'A' U.O.N..
- COORDINATE PROGRAMMING OF LIGHTING CONTROL WITH ARCHITECT, OWNER AND ENGINEER. INCLUDE LIGHTING CONTROL PROGRAMMING COSTS
- PROVIDE MACHINE ENGRAVED DEVICE COVERPLATES ON ALL DEVICES WITH THE PANEL AND CIRCUIT NUMBER PRIOR TO SUBSTANTIAL COMPLETION. INCLUDE DETAILS IN SUBMITTALS. COVERPLATES SHALL NOT BE LABELED IN THE

6. PROVIDE ALL OCCUPANCY SENSORS AND/OR TIMER SWITCHES SHOWN. SEE WIRING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE SUBMITTALS TO ENGINEER IN AUTOCAD FORMAT TO INCLUDE ALL WIRING DIAGRAMS, DEVICE QUANTITIES AND COVERAGE AREAS. INCLUDE PROGRAMMING COSTS IN BID.





### ELECTRICAL LOAD SUMMARY

SUM OF LOADS REMOVED: 240W 6240W LOADS ADDED: 6000W NET TOTAL INCREASE/DECREASE: AMPERES PER PHASE @ 240V, 1-PHASE: 26 AMPS

THEREFORE, LOADS REMAIN SATISFACTORY UPON PROJECT

COMPLETION (100AMP PANELBOARD).

**SCHENKEL**SHULTZ □ □ □ ARCHITECTURE □ □ □

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Checked: S.T.P. Date: 10/22/2010
Drawn: B.P.Z. C.O.A. 27552

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### Coquina Beach

2650 Gulf Drive South

Beach Side Restroom

Bradenton, Florida 34217

**Manatee County Government** 

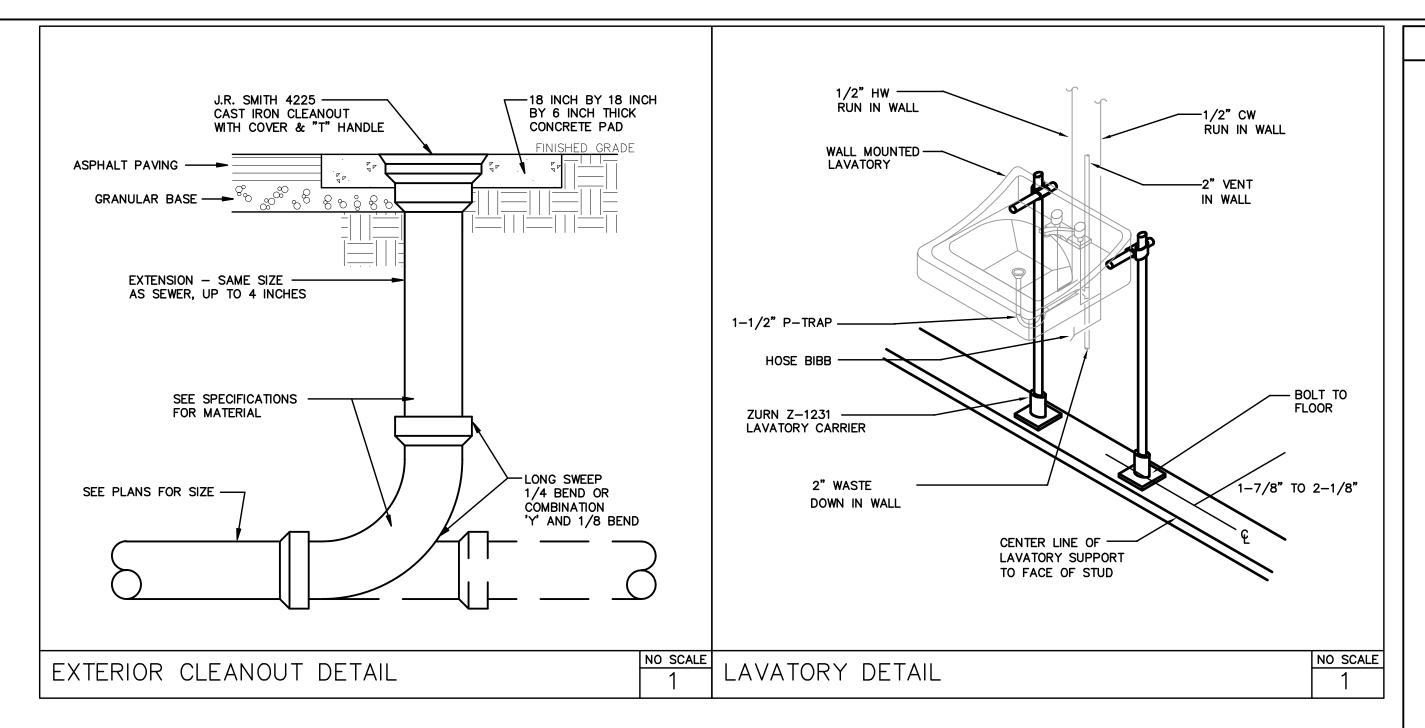
Renovation

1112 Manatee Avenue West Bradenton, Florida 34208

revisions:

drawn: checked: bz date: 04.13.2012 comm. no.: 0920829

ELECTRICAL FLOOR PLAN



#### GENERAL PLUMBING NOTES

- THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION AND THESE SPECIFICATIONS AND DRAWINGS ARE PART OF THIS CONTRACT.
- 2. ALL APPLICABLE CODES, LAWS, AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIAL WHICH VIOLATES ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH A VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.
- APPLICABLE CODES INCLUDE: FLORIDA BUILDING CODE - 2007 FLORIDA PLUMBING CODE - 2007
- 3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. PIPE ROUTING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF PIPE TO AVOID OBSTRUCTIONS. COORDINATION WITH UTILITY SERVICES, INCLUDING THOSE OF OTHER TRADES IS REQUIRED. MAINTAIN HEADROOM AND SPACE CONDITIONS.
- 4. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- 5. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES, AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.
- 6. THE LOCATIONS OF THE UTILITY SERVICES ARE BELIEVED TO BE AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATIONS OF THESE SERVICES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING ANY WORK.
- 7. SEAL OPENINGS THROUGH PARTITIONS, WALLS, AND FLOORS WITH A U.L. LISTED FIRESTOPPING ASSEMBLY MATCHED TO THE RATING OF THE PENETRATED ELEMENT.
- 8. PROVIDE ALL NECESSARY FLASHING AND COUNTERFLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THIS BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF PIPING AND EQUIPMENT. PROVIDE EQUIPMENT CURBS AS REQUIRED.
- 9. MATERIALS AND WORKMANSHIP, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH BUILDING
- 10. THE WORK IN THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED, AND IN A MANNER SATISFACTORY TO THE OWNER. THE WORK SHALL BE PERFORMED SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO THE OWNER.
- 11. ALL MATERIAL AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS. ALL MATERIAL AND EQUIPMENT ON SITE SHALL BE PROPERLY STORED SUCH THAT IT IS PROTECTED FROM DAMAGE AND EXPOSURE TO THE OUTSIDE ELEMENTS.
- 12. INSURANCE: PROVIDE IN ACCORDANCE WITH BUILDING REQUIREMENTS AND POLICY SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR THE OWNER AND ENGINEER.
- 13. THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, TESTED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL, AND SUBMITTED ALL THE NECESSARY CLOSE-OUT DOCUMENTS.

DESCRIPTION	LINETYPE
COLD WATER	
HOT WATER	
HOT WATER RETURN	
SANITARY BELOW GRADE	
EXISTING BELOW GRADE SANITARY	SAN (E)
SANITARY VENT	
BALANCING VALVE	<u></u> ————————————————————————————————————
BALL VALVE	——————————————————————————————————————
CHECK VALVE	<del></del>
SOLENOID VALVE	——————————————————————————————————————
VALVE IN VALVE BOX	
PRESSURE REDUCING VALVE	<del></del>
UNION	
STRAINER	<del></del>
PIPE UP	
PIPE DOWN	<del></del>
TEE UP	<del></del>
TEE DOWN	
AREA DRAIN AND TYPE	——— <b>③</b> 4" AD−1
FLOOR DRAIN AND TYPE	—————————————————————————————————————
FLOOR CLEANOUT	$-\!\!\!-\!\!\!\!-\!\!\!\!\!-\!$
CLEANOUT PLUG	<del></del>
EXTERIOR CLEANOUT AND TYPE	
CAP	
SHOCK ARRESTOR AND PDI SIZE	PDI-A
P-TRAP	<del></del>
HOSE BIBB	—├ нв
WALL HYDRANT	— <del>  </del> wн
REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTOR	
EXISTING WORK	
FLOW DIRECTION	
CONNECTION POINT OF NEW TO EXISTING	<b>_</b>

PLUMBING LEGEND

AAV	AIR ADMITTANCE VALVE	ΙE	INVERT ELEVATION
ADA	AMERICANS WITH DISABILITIES ACT		
AD	AREA DRAIN	MAX	MAXIMUM
AFG	ABOVE FINISHED GRADE	MIN	MINIMUM
втин	BRITISH THERMAL UNITS PER HOUR	NEC	NATIONAL ELECTRICAL CODI
BWV	BACK WATER VALVE	NIC	NOT IN CONTRACT
		NTS	NOT TO SCALE
CD	CONDENSATE DRAIN		
CO	CLEAN OUT	PDI	PLUMBING & DRAINAGE INS
CONN	CONNECTION	PSIG	POUNDS PER SQUARE INCH GAUGE
CONT	CONTINUOUS	POC	POINT OF CONNECTION
CW	COLD WATER		
		SPECS	SPECIFICATIONS
DIA	DIAMETER	SAN	SANITARY SEWER
DN	DOWN	S.F.	SQUARE FEET
DWG	DRAWING		
		T & P	TEMPERATURE & PRESSURE
ECO	EXTERIOR CLEANOUT	TBD	TO BE DETERMINED
		TEMP	TEMPERATURE
F	DEGREES FAHRENHEIT	TYP	TYPICAL
FCO	FLOOR CLEANOUT		
FD	FLOOR DRAIN	UL	UNDERWRITER'S LABORATOR INC.
FT	FEET	UNO	UNLESS NOTED OTHERWISE
FBC	FLORIDA BUILDING CODE		
FPC	FLORIDA PLUMBING CODE	VTR	VENT THRU ROOF
		٧	VENT
GAL	GALLONS		
GPM	GALLONS PER MINUTE	W/	WITH
		WCO	WALL CLEAN OUT
НВ	HOSE BIBB	WH	WALL HYDRANT
HP	HORSE POWER		
HW	HOT WATER		
HWR	HOT WATER RETURN		

	PLUMBING DRAWING LIST
DRAWING NO.	DRAWING TITLE
P001	PLUMBING LEGEND & SCHEDULES
P101	PLUMBING FLOOR PLANS

	PLUMBING FIXTURE SCHEDULE										
MARK	DESCRIPTION	FIXTURE MANUFACTURER	CATALOG NO.	TRIM MANUFACTURER	CATALOG NO.	REMARKS	NOTE				
P-1	WATER CLOSET-STANDARD HEIGHT-FLOOR MOUNT-SENSOR FLUSH VALVE	KOHLER	K-4406	HYDROTEK	HB8-128	FLOOR MOUNT WHITE VITREOUS CHINA TOILET, TOP SPUD, 10" ROUGH-IN. ELONGATED BOWL WITH KOHLER K-4731-C WHITE PLASTIC OPEN FRONT SEAT WITH CHECK HINGE. 1.28 GPF.	_				
P–1H	WATER CLOSET-ADA-FLOOR MOUNT-SENSOR FLUSH VALVE	KOHLER	K-4405	HYDROTEK	HB8-128	FLOOR MOUNT WHITE VITREOUS CHINA TOILET, TOP SPUD, 10" ROUGH—IN, ADA. ELONGATED BOWL WITH KOHLER K-4731—C WHITE PLASTIC OPEN FRONT SEAT WITH CHECK HINGE. 1.28 GPF.	4				
P-2	LAVATORY-WALL HUNG-STANDARD HEIGHT	KOHLER	K-2007	HYDROTEK	HB-5000EM	WALL HUNG VITREOUS CHINA LAVATORY. SINGLE FAUCET HOLE, PROVIDE CONCEALED ARM CARRIER AND GRID STRAINER. COLD WATER SUPPLY ONLY.	1,2				
P-2H	LAVATORY-WALL HUNG-ADA-SENSOR FAUCET	KOHLER	K-2007	HYDROTEK	HB-5000EM	WALL HUNG VITREOUS CHINA LAVATORY. SINGLE FAUCET HOLE, PROVIDE CONCEALED ARM CARRIER AND GRID STRAINER. COLD WATER SUPPLY ONLY.	1,2,3,4				
P-3	URINAL-WALL HUNG-ADA-SENSOR FLUSH VALVE	KOHLER	K-4960-ET	HYDROTEK	HB-8000C-B1	WALL MOUNT VITREOUS CHINA URINAL, 0.5 GPF, PROVIDE WALL CARRIER.	4				
P-4	HI/LO DRINKING FOUNTAIN-ADA	HAWS	1119.14A	-	<del>-</del>	HEAVY DUTY 14 GA. TYPE 304 STAINLESS STEEL HI/LO DRINKING FOUNTAIN POLISHED CHROME BUBBLERS, STAINLESS STEEL BACK PANEL, INTEGRATED TRAP, ANTIMICROBIALLY TREATED, PUSH BUTTON ACTIVATED.	4				

- PLUMBING NOTES:
- 1. MCGUIRE CAST BRASS P-TRAP WITH TUBULAR WALL BEND (SIZE AS REQUIRED). P-TRAPS IN
- CONCEALED SPACES MAY BE PVC. 2. MCGUIRE HEAVY DUTY PREMIER LINE SUPPLY STOP VALVES.
- 3. TRUEBRO LAV GUARD: MODEL NO. 102W FOR P-TRAP AND ANGLE STOPS WITH SUPPLY
- ASSEMBLIES. MODEL NO. 102W WITH 105 ACCESSORY FOR OFFSET DRAIN. 4. SET AT HANICAP HEIGHT.

- GENERAL NOTES:

  A. PROVIDE ITEMS BY LISTED MANUFACTURER OR APPROVED EQUAL ONLY.
- B. SEE SEPARATE SPECIFICATIONS. C. AMERICAN WITH DISABILITIES ACT (ADA):
  - 1) ALL HANDICAP FIXTURES AND TRIM SHALL COMPLY WITH FEDERAL AND STATE ACCESSIBILITY CODES. 2) WATER CLOSET TANK FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREA.

	FLORIDA BUILDING	CODE 20	007 – P	LUMBING	FIXTURE	UNIT SO	CHEDULE			
QUANTITY	DESCRIPTION	WATER DEMAND EACH FIXTURE UNIT (F.U.) COLD	WATER DEMAND EACH FIXTURE UNIT (F.U.) HOT	WATER DEMAND EACH FIXTURE UNIT (F.U.) COMBINED	WATER DEMAND TOTAL FIXTURE UNITS COLD	WATER DEMAND TOTAL FIXTURE UNITS HOT	WATER DEMAND TOTAL FIXTURE UNITS COMBINED	TOTAL GPM	SANITARY FIXTURE UNIT (F.U.) EACH	SANITARY FIXTURE UNIT (F.U.) TOTAL
1	DRINKING FOUNTAIN	0.25	-	0.25	0.25	-	0.25	_	0.50	0.50
2	FLOOR DRAINS	-	-	-	-	-	ı	-	2.00	4.00
0	LAVATORY, PRIVATE	0.50	0.50	0.70	0.00	0.00	0.00	-	1.00	0.00
4	LAVATORY, PUBLIC	1.50	_	2.00	6.00	_	6.00	_	1.00	4.00
0	SERVICE SINK	2.25	2.25	3.00	0.00	0.00	0.00	-	2.00	0.00
0	SINK	1.00	1.00	1.40	0.00	0.00	0.00	-	2.00	0.00
1	URINAL, PUBLIC 3/4" FLUSH VALVE	5.00	-	5.00	5.00	-	5.00	-	2.00	2.00
0	WATER CLOSET, PRIVATE FLUSH VALVE	6.00	-	6.00	0.00	0.00	0.00	_	4.00	0.00
0	WATER CLOSET, PRIVATE FLUSH TANK	2.20	-	2.20	0.00	0.00	0.00	1	3.00	0.00
3	WATER CLOSET. PUBLIC FLUSH VALVE	10.00	-	10.00	30.00	-	30.00	-	6.00	18.00
0	WATER CLOSET, PUBLIC FLUSH TANK	5.00	_	5.00	0.00	0.00	0.00	_	4.00	0.00
0	WATER CLOSET, PUBLIC OR PRIVATE FLUSHOMETER TANK	2.00	_	2.00	0.00	0.00	0.00	-	4.00	0.00
				TOTAL:	41.25	0.00	41.25	46.50	-	28.50
		NOTES:								

- 1) TOTAL OF 46.50 GPM DEMAND BASED ON SYSTEM PREDOMINANTLY FOR FLUSH VALVES.
- 2) SYSTEM WILL REQUIRE 1" WATER MAIN.
- 3) RECOMMENDED 1.0" METER SIZE PER FBC TABLE 603.1.
- 4) SYSTEM WILL REQUIRE 4" BUILDING DRAIN.

#### **SCHENKEL**SHULTZ □ □ □ ARCHITECTURE □ □ □

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ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE
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Designed:K.C.C. ME3 Job No: 10-0195-03
Checked: S.T.P. Date: 10/22/2010
Drawn: K.C.C. C.O.A. 27552 Drawn: K.C.C. C.O.A. 27552 Copyright 2010 ME3 All rights reserved TO THE BEST OF MY KNOWLEDGE, SAID PLANS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE BUILDING CODES.

2650 Gulf Drive South

Bradenton, Florida 34217

Beach Side Restroom Renovation

**Manatee County Government** 

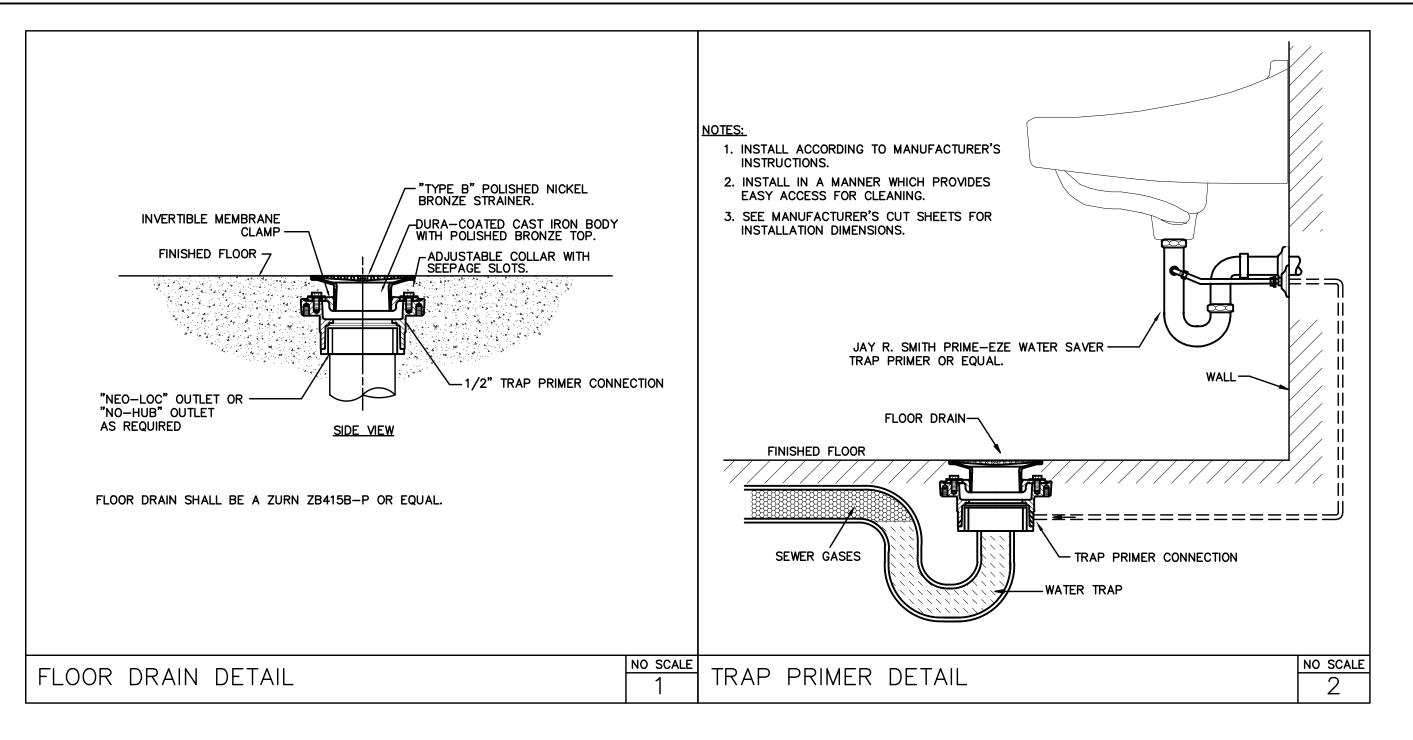
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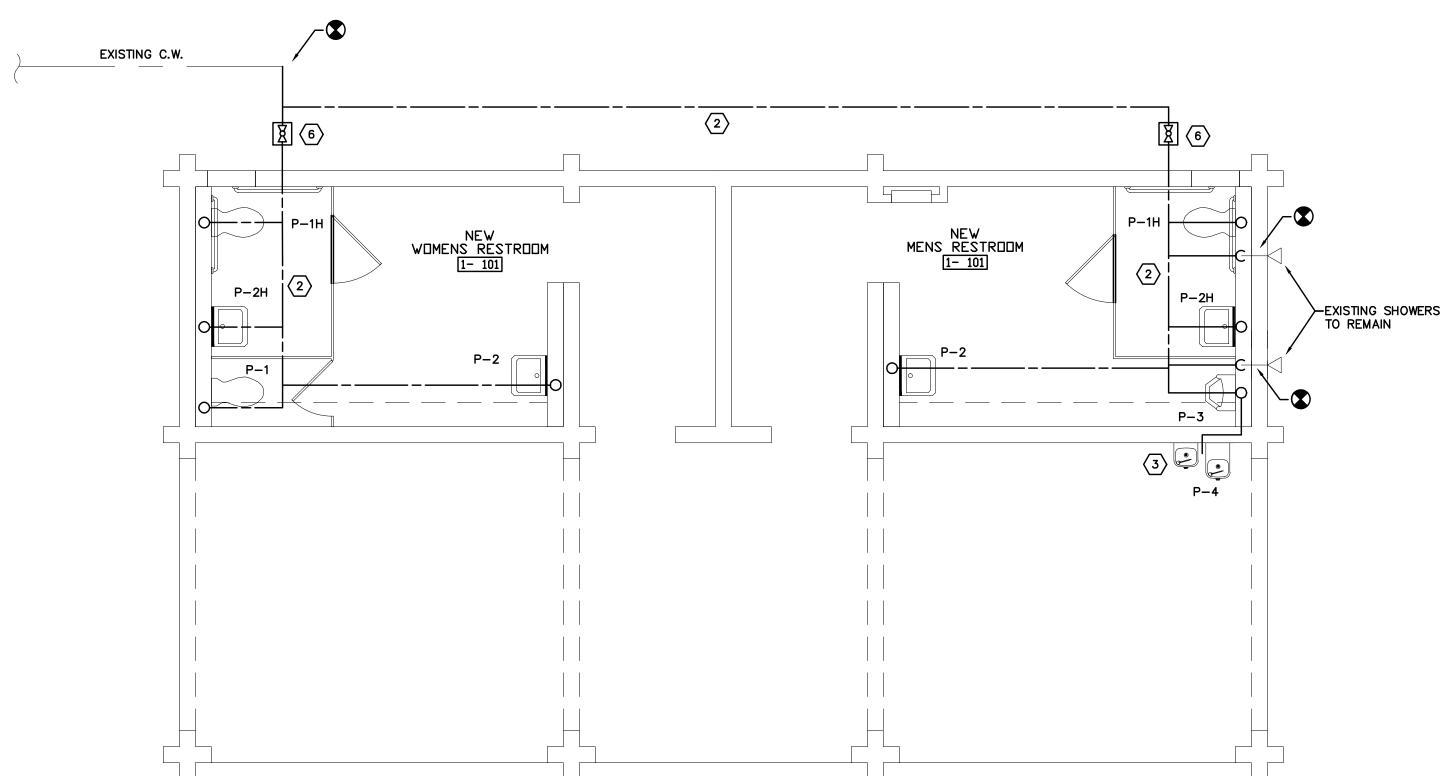
revisions:

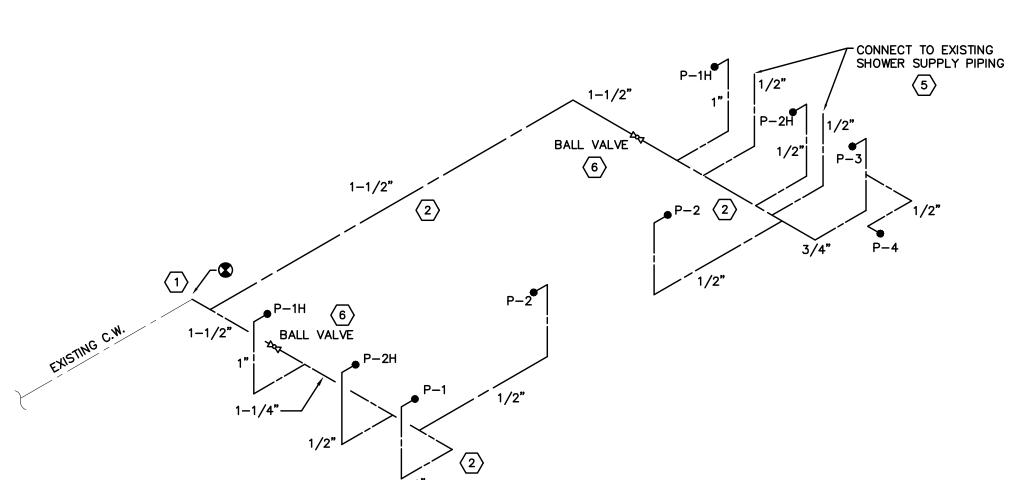
drawn: da checked: da date: 04.13.2012

comm. no.: 0920829

**PLUMBING** LEGEND & SCHEDULES





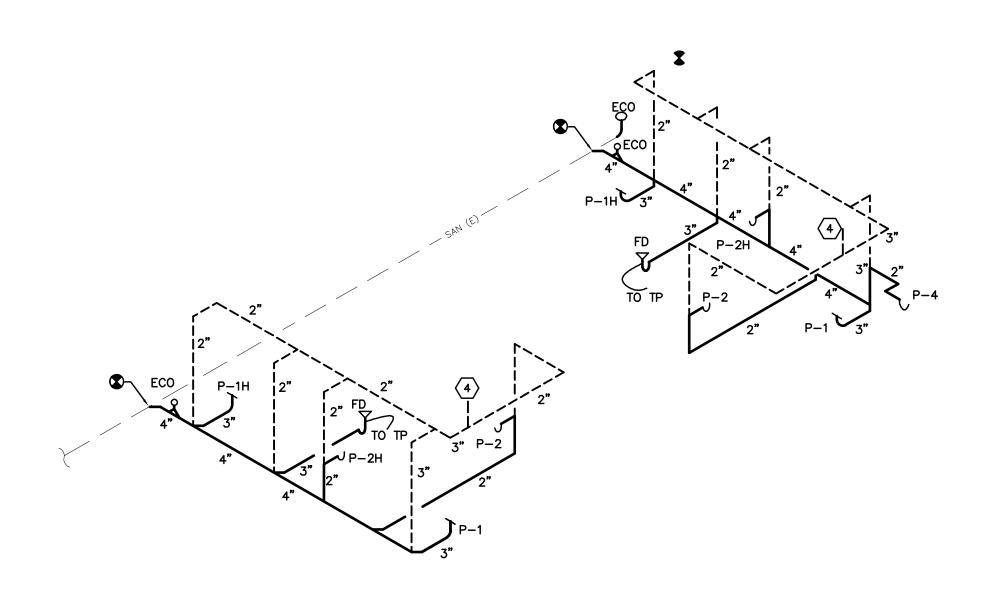


### PLUMBING KEYED NOTES

- P1-1/2" COLD WATER SUPPLY, TIE INTO EXISTING SERVICE. PROVIDE TWO BALL VALVES IN YARD BOXES, ONE FOR EACH RESTROOM.
- ROUTE DOMESTIC WATER SUPPLY PIPING UNDER SLAB AND STUB UP IN NEW WALLS AT PLUMBING FIXTURES.
- 3 CUT INTERIOR FACE OF EXISTING BLOCK WALL TO INSTALL WATER SUPPLY AND WASTE/VENT PIPING TO NEW DRINKING FOUNTAIN. PATCH AS REQUIRED.
- 4 TIE INTO EXISTING 3" VENT THROUGH ROOF.
- FECONNECT EXISTING SHOWER WATER SUPPLY PIPING IN NEW BLOCK WALL. EXISTING SHOWERS ARE TO REMAIN.
- 6 PROVIDE VALVE BOSX FLUSH WITH GRADE FOR NEW SHUT OFF VALVE.



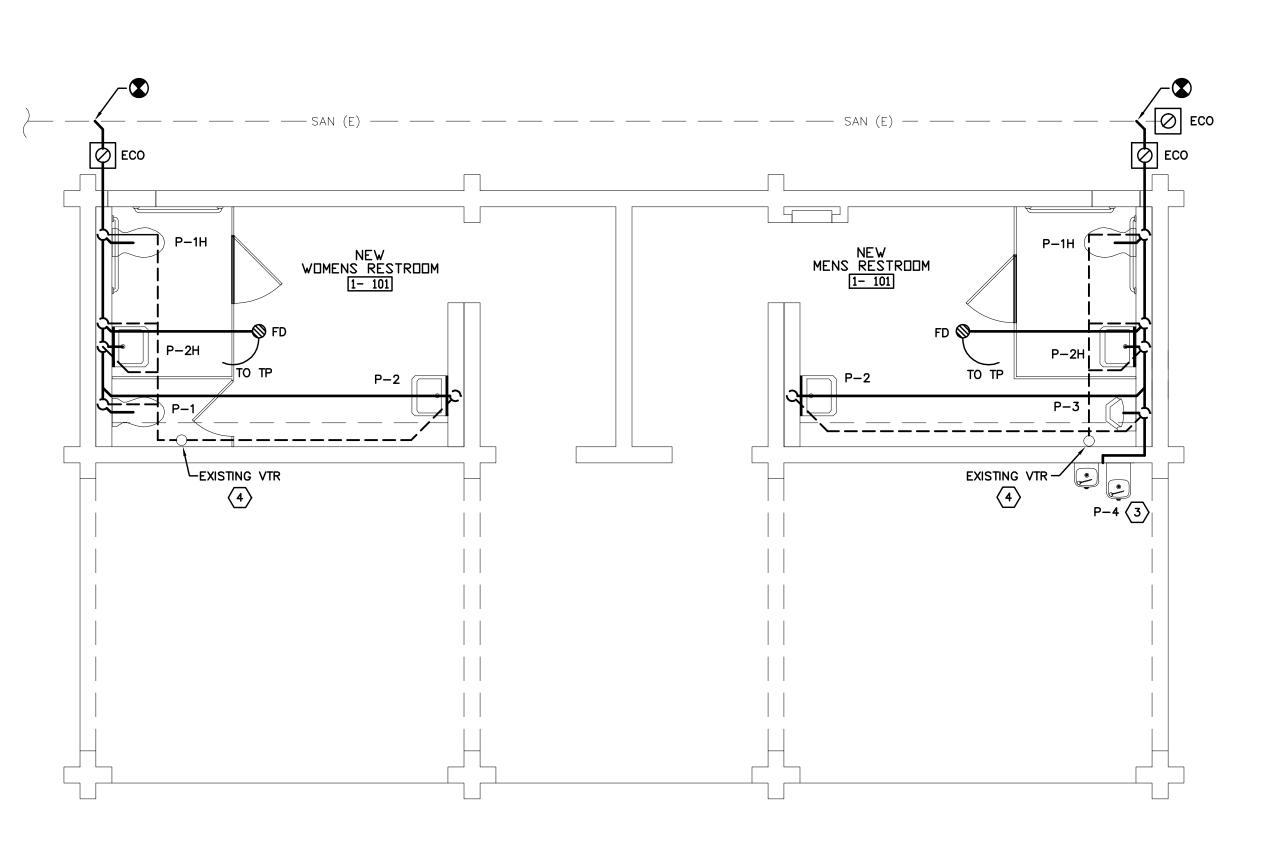
# BEACH SIDE RESTROOMS OMESTIC WATER RISER NO SCALE



BEACH SIDE RESTROOMS

SANITARY WASTE & VENT RISER

NO SCALE



BEACH SIDE RESTROOMS

SANITARY WASTE & VENT PLAN

1/4"=1'-0"

### SCHENKELSHULTZ

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Checked: S.T.P. Date: 10/22/2010
Drawn: K.C.C. C.O.A. 27552

TO THE BEST OF MY KNOWLEDGE, SAID PLANS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE BUILDING CODES.

KAY C. CLEM, P. FL# 53270

### Coquina Beach

2650 Gulf Drive South

Bradenton, Florida 34217

Beach Side Restroom Renovation

Manatee County Government

----1112 Manatee Avenue West

Bradenton, Florida 34208

revisions:

drawn: kc checked: kc date: 04.13.2

PLUMBING FLOOR PLANS

P101