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# Coquina Beach

2650 Gulf Drive South  
Bradenton, Florida, 34217

## Beach Side Restrooms Renovations

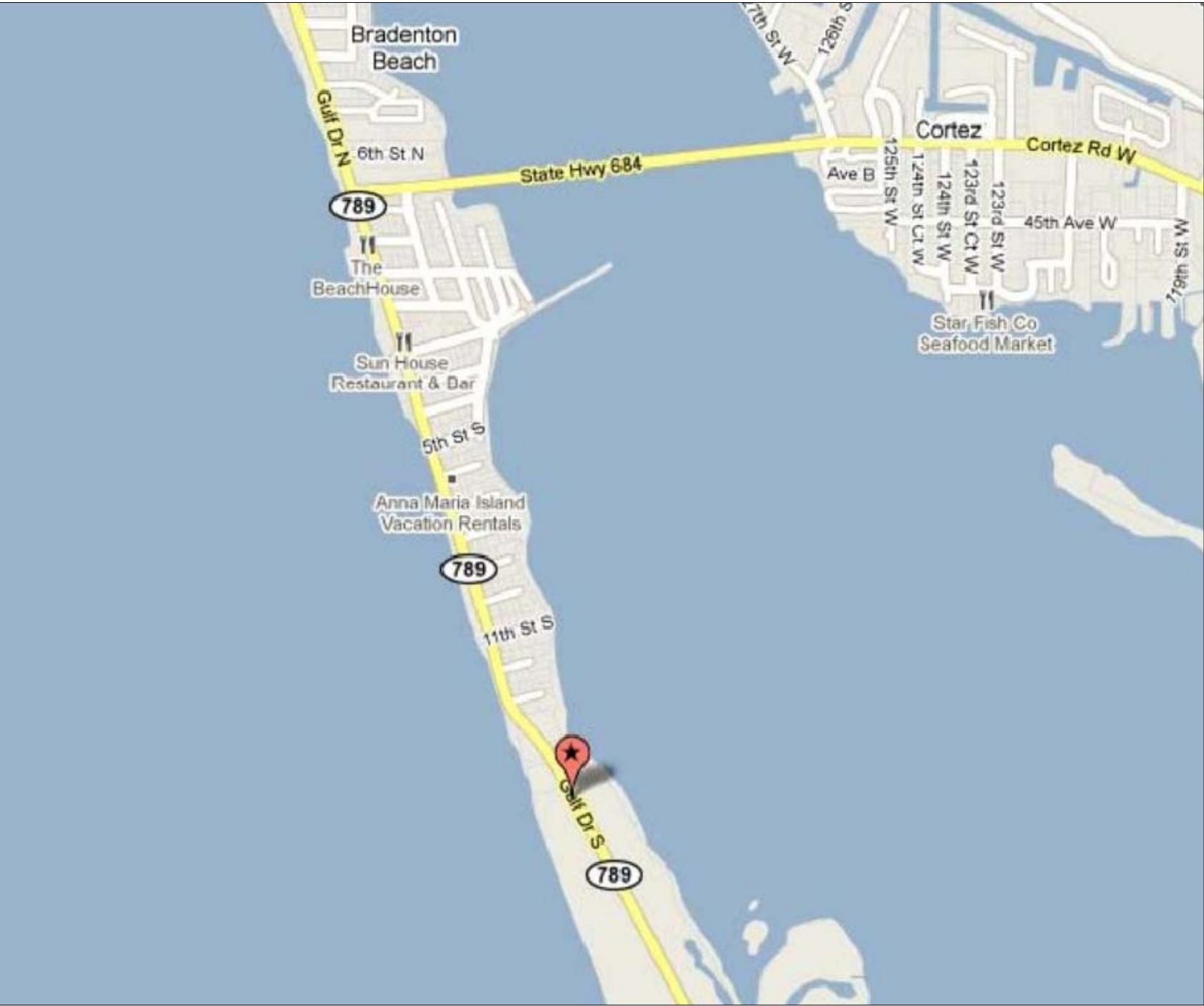
Manatee County Government  
Bradenton, Florida 34208

sheet index

location map

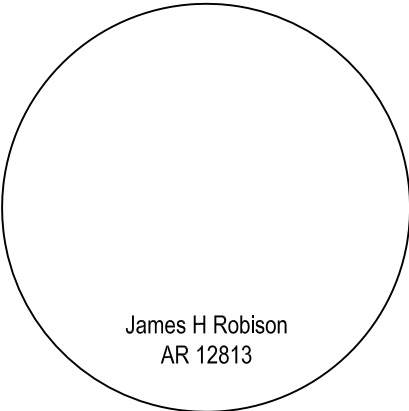
area map

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**SCHENKELSHULTZ**  
ARCHITECTURE  
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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## Coquina Beach

2650 Gulf Drive South  
Bradenton, Florida 34217

### Beach Side Restrooms Renovations

Manatee County Government  
Bradenton, Florida 34208

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

COVER SHEET

# CS-1

Permit drawings



STRUCTURAL NOTES

ELECTRONIC 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 CODE.

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

FLOOR:  
LIVE LOAD: 40 psf  
ROOF:  
LIVE LOAD: 20 psf  
DEAD LOAD: 25 psf

WIND:

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 CONDITION.

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.

WOOD:

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:

DEAD LOAD	0.90
DEAD LOAD + FLOOR LIVE LOAD	1.00
DEAD LOAD + ROOF LIVE LOAD	1.25
DEAD LOAD + WIND LOAD	1.33

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.

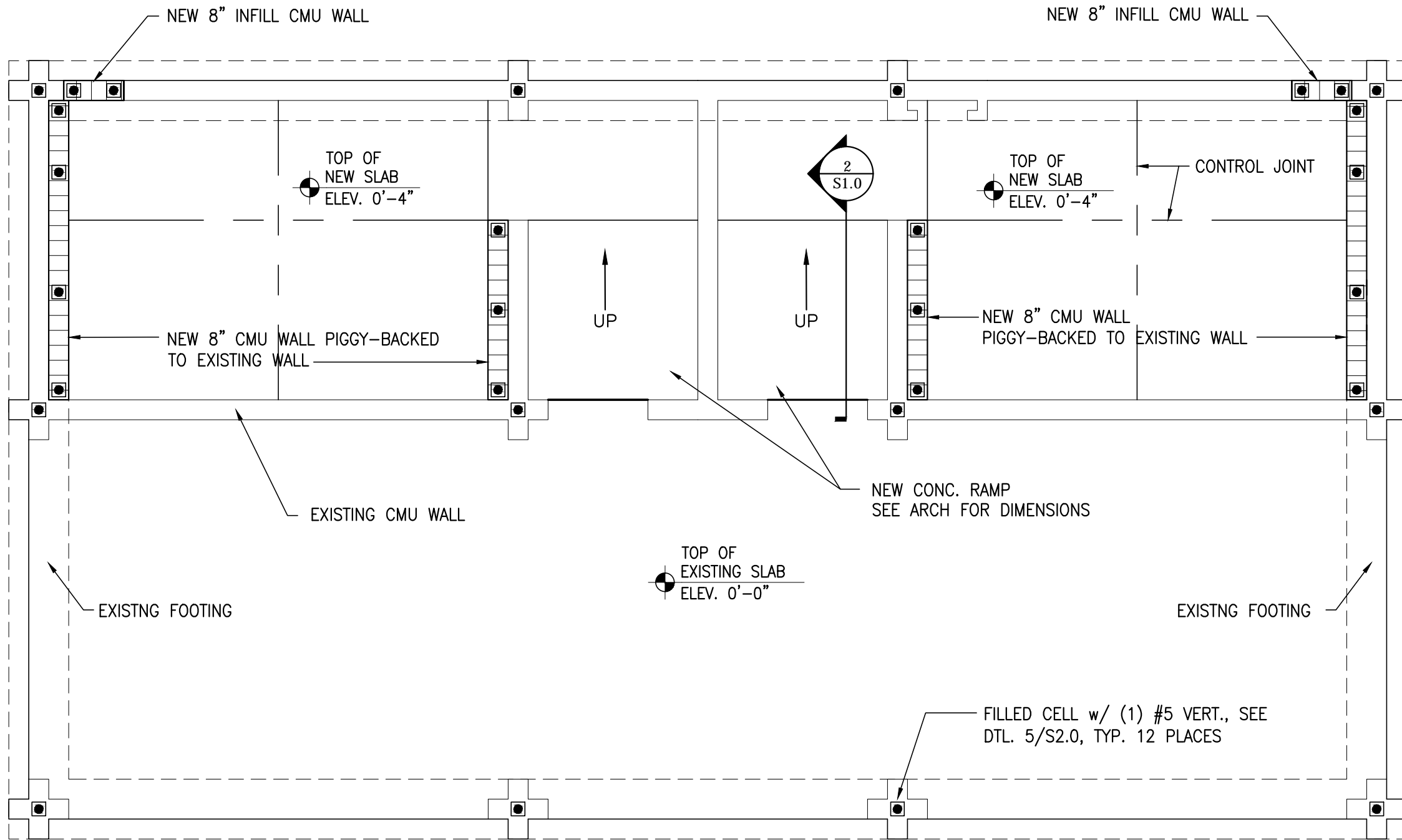
UPLIFT CONNECTIONS SHALL BE INSTALLED TO RESIST UPLIFT FORCES INDICATED BY THE SPECIALTY ENGINEER. AS FOLLOWS:

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)

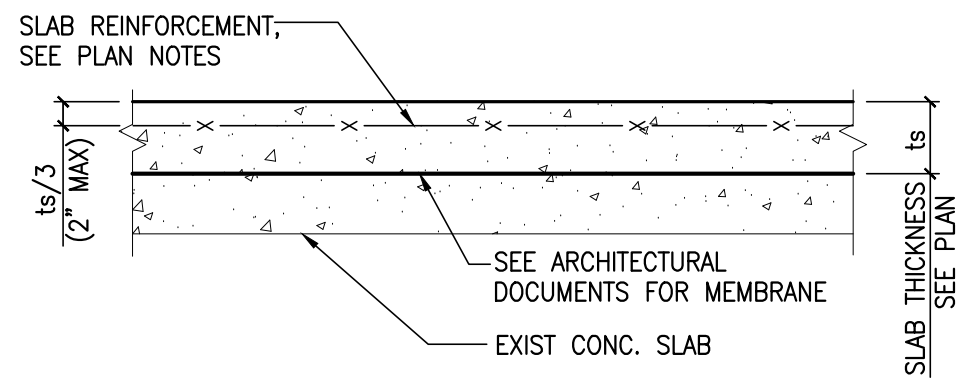
SUPPLEMENTAL SKETCHES/ DRAWINGS:

IT 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.

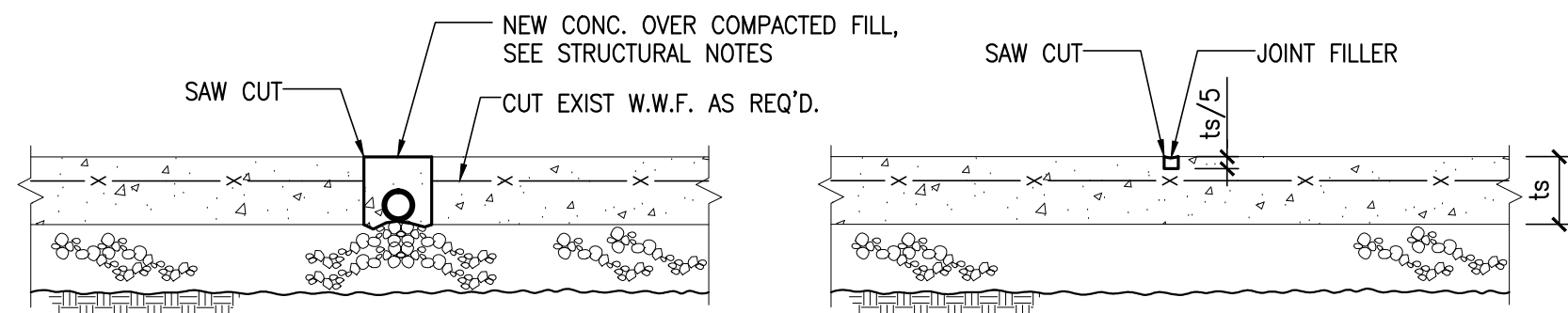


BEACHSIDE RESTROOM  
FOUNDATION PLAN

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



SLAB-ON-GRADE

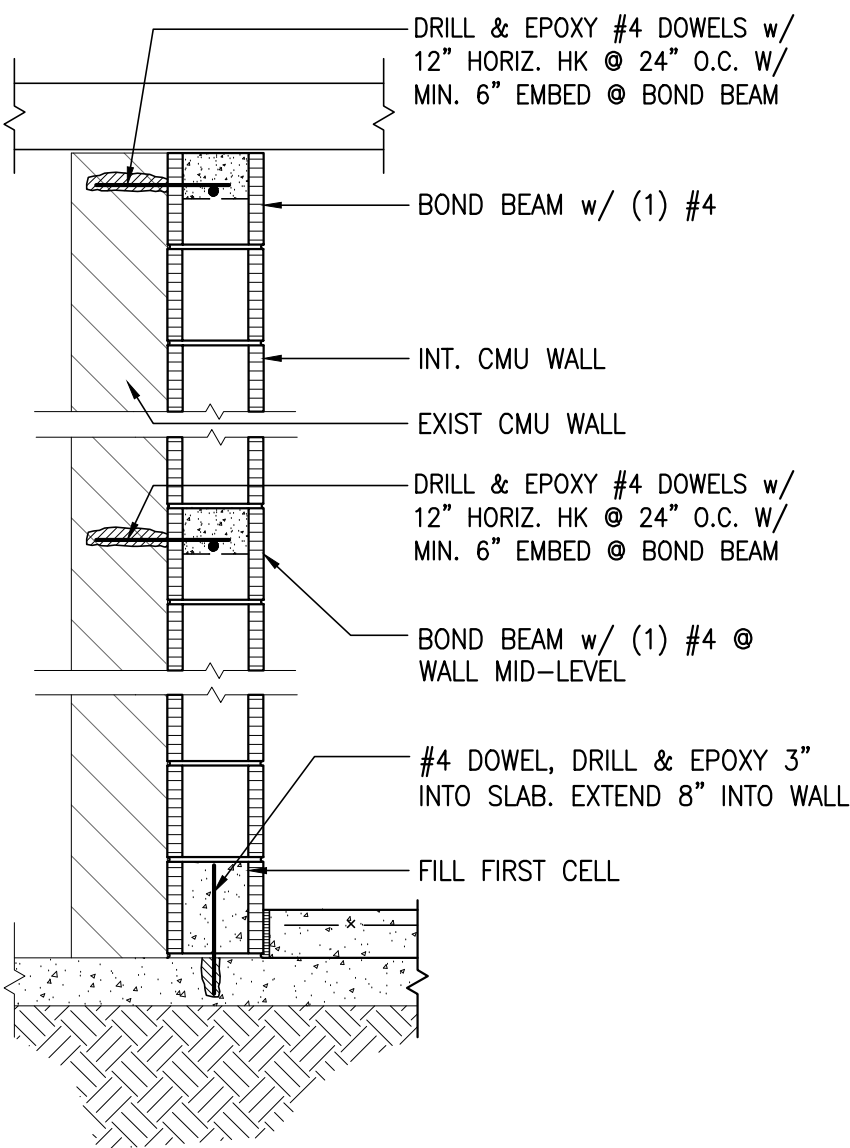


SLAB TRENCH FILL

CONTRACTION (CONTROL) JOINT

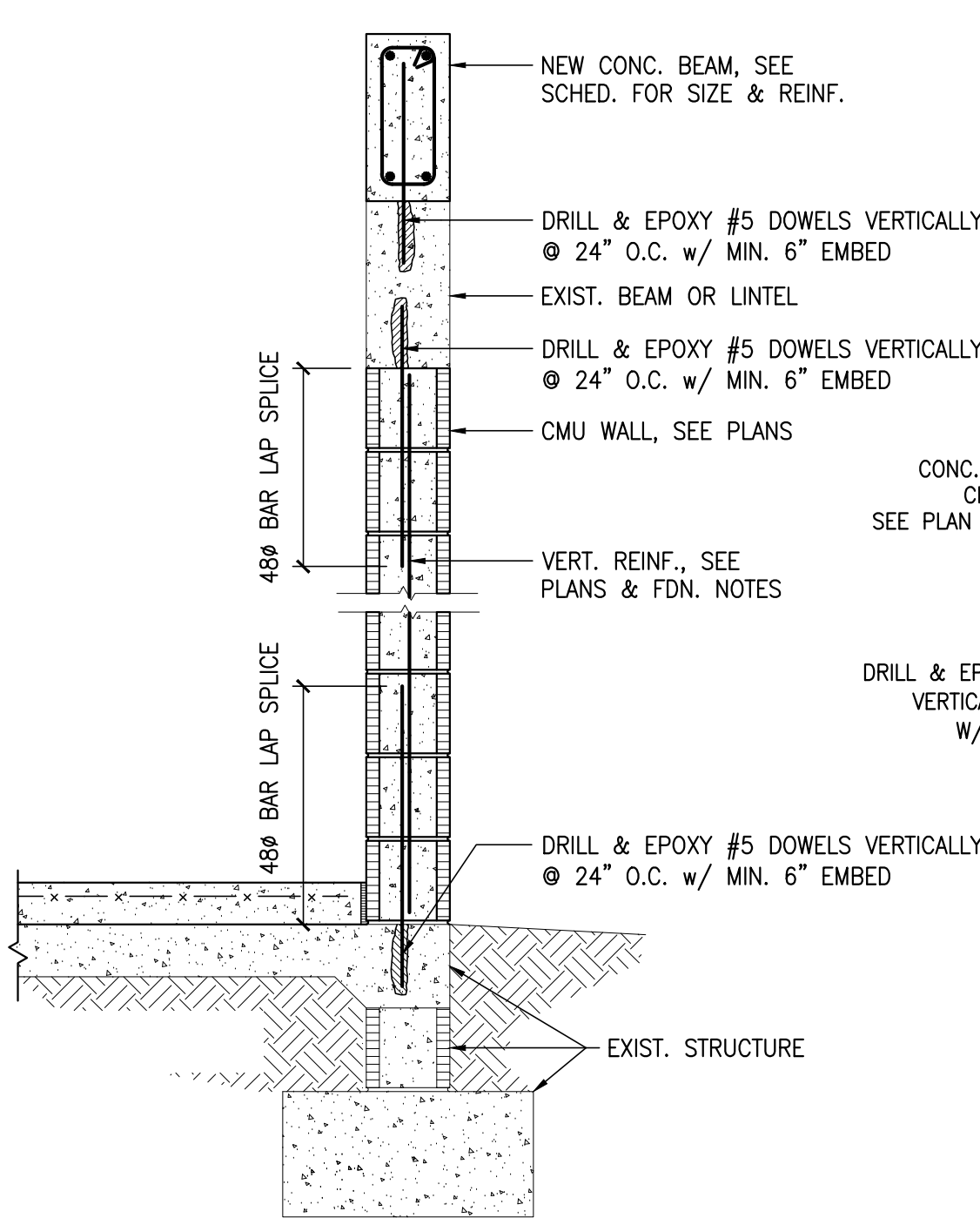
6 TYP. SLAB DETAILS

SCALE: NTS



5 TYP. INT. WALL DETAIL

SCALE: NTS

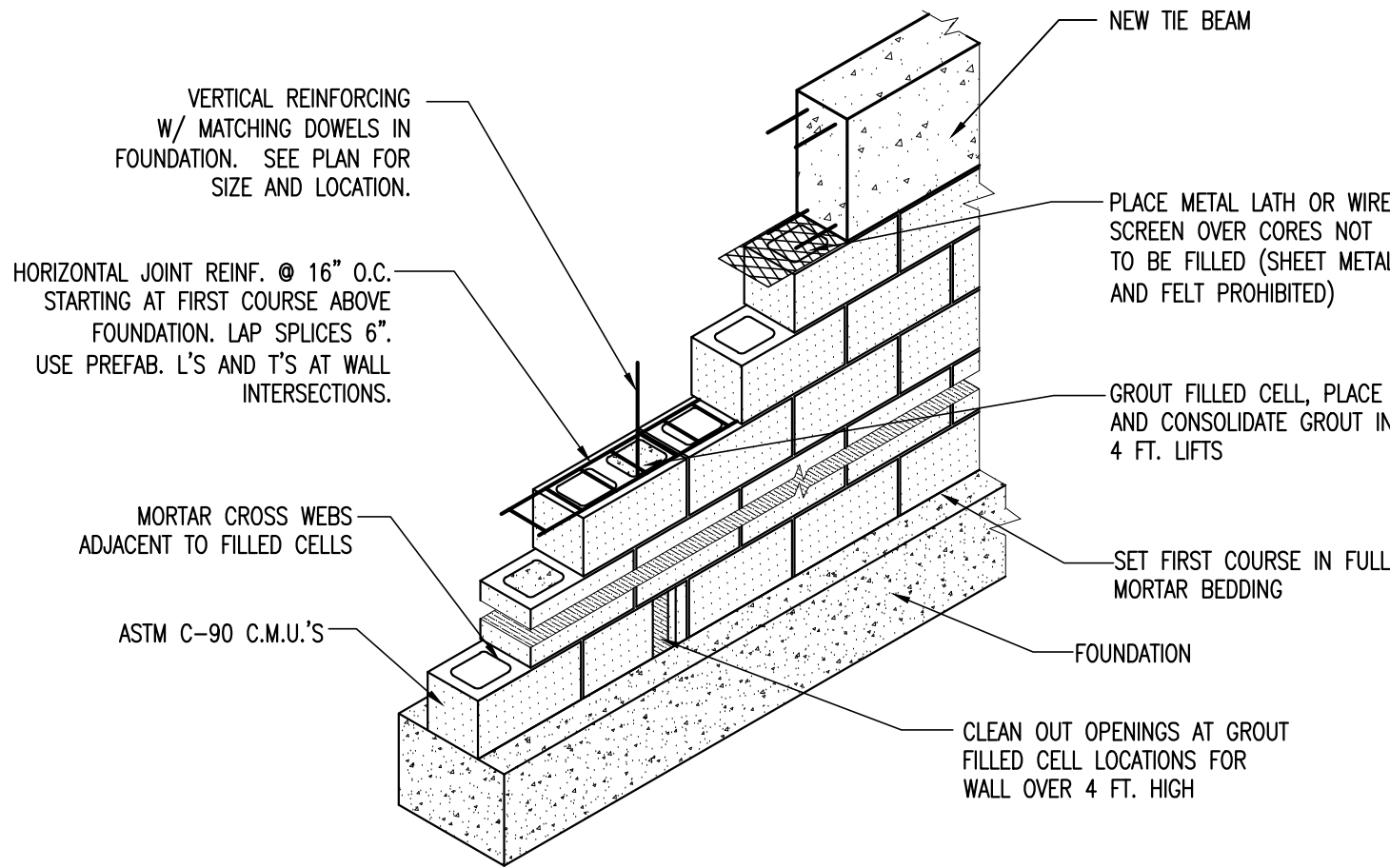


4 WALL REINF. @ NEW EXT. WALL

SCALE: NTS

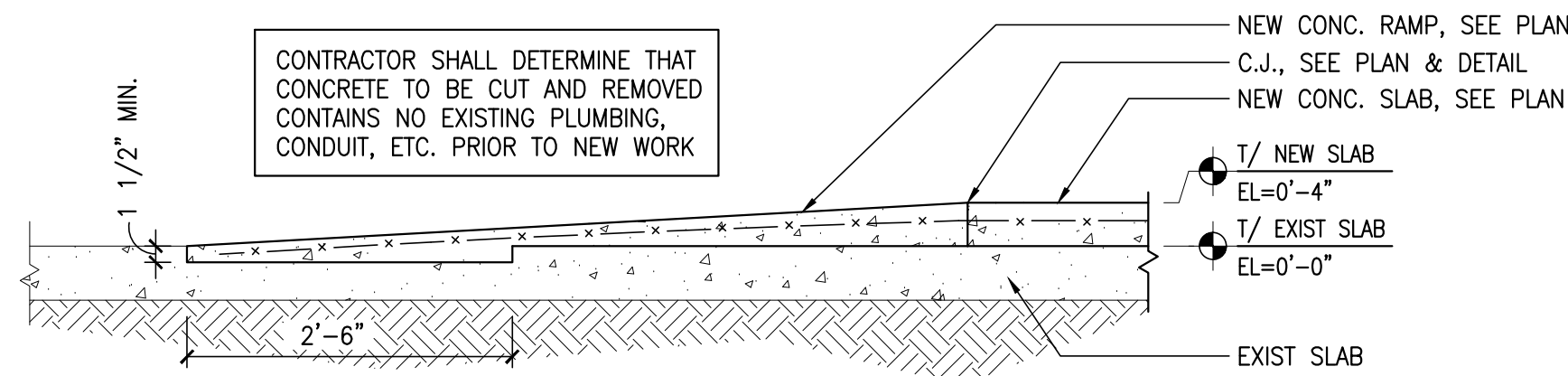
FOUNDATION NOTES:

- SEE ARCHITECTURAL, CIVIL AND MEP DRAWINGS FOR ADDITIONAL INFORMATION. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING.
- FLOOR SLAB SHALL BE MIN. 4" CONCRETE SLAB-ON-GRADE, 3000 PSI MIN. CONCRETE WITH W1.4xW1.4-6x6 W.W.F.
- DENOTES EXISTING 8" MASONRY WALL.
- ▨ DENOTES REINF. 8" MASONRY WALL WITH REINFORCING IN GROUT FILLED CELLS AT 48" AT CORNERS, ENDS, INTERSECTIONS, UNDER POINT LOADS. f'm = 1500 PSI GROUT TYPE M OR S, U.N.O.
- DENOTES #5 VERTICAL REINFORCING IN GROUT FILLED CELLS.
- CENTERLINES OF COL., WALLS & BEAMS SHALL COINCIDE W/ FOUNDATION CENTERLINES, U.N.O.
- SEE ARCH. FOR LOCATION AND DIMENSIONS OF WINDOW / DOOR OPENINGS.



7 TYP. MASONRY WALL  
CONSTRUCTION

SCALE: NTS



2 RAMP DETAIL

SCALE: NTS

SHEET INDEX

S1.0 STRUCTURAL NOTES  
& FOUNDATION PLAN  
S2.0 ROOF PLAN

09DS-0395.03

SEAL

SCHENKELSHULTZ

□ □ □ ARCHITECTURE □ □ □

677 North Washington Blvd.

Suite 37

Sarasota, FL 34236

voice 941.952.5875

fax 941.957.3630

schenkelschultz.com

SS Lic No - AA-C000937

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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

revisions:

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

RESTROOM -  
STRUCTURAL NOTES  
& FOUNDATION PLAN

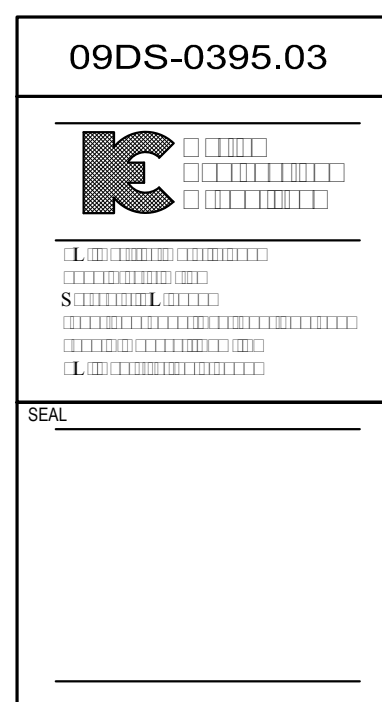
S1.0

permit drawings

1. [ ] -DENOTES EXISTING WALLS TO REMAIN.
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.

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 1/2" CDX APA RATED SHEATHING WITH 10d @ 6" PANEL EDGES AND INTERMEDIATE 4" @ CORNERS. 2X BLOCKING SHALL BE INSTALLED BETWEEN TRUSS CHORDS AT EACH END BEARING AND WITHIN 6" OF EACH INTERIOR BEARING POINT.
3. PROVIDE 1/2" 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 1/2" 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

CONCRETE BEAM SCHEDULE				
MARK	SIZE WxH: (IN)	REINFORCEMENT		
		TOP	MIDDLE	BOTTOM
TB-1	8 x 16	(2) #5	-	(2) #5
TB-2	8 x 40	(2) #5	2x (2) #5	(2) #5
B-1	8 x 16	(2) #5	-	(2) #5

SPECIALTY ENGINEER VERIFY

TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE COMPLETED STRUCTURE DEPICTED ON THESE PLANS COMPLIES WITH APPLICABLE MINIMUM BUILDING CODES.

[illegible]

**\$2.0**  
permit drawings



# SYMBOLS

**SECTION DETAIL**

- DETAIL NUMBER
- SHEET WHERE DETAIL IS DRAWN

**WALL OR BUILDING SECTION**

- SECTION NUMBER
- SHEET WHERE SECTION IS DRAWN

**DRAWING TITLE**

- DRAWING IDENTIFICATION NUMBER
- DETAIL TITLE
- DRAWING SCALE

**PLAN DETAIL**

- DETAIL NUMBER
- SHEET WHERE DETAIL IS DRAWN
- AREA TO BE DETAILED OR ENLARGED

**REVISION**

- REVISION NUMBER
- REVISED AREA CLOUDED

**LIFE SAFETY TAG**

- ROOM SQUARE FOOTAGE
- SQUARE FEET PER OCCUPANT
- MAXIMUM NUMBER OF OCCUPANTS

**PARTITION TYPE**

**WALL TAG**

- BUILDING NUMBER
- DOOR NUMBER
- DOOR NUMBER SUFFIX

**DOOR TAG**

- ROOM NAME
- ROOM NUMBER
- AREA

**STORAGE**

- 1-123
- 100 SF

**ROOM TAG**

- LETTER FOR WINDOW NUMBER FOR LOUVER

**WINDOW/ LOUVER TAG**

- CEILING HEIGHT FROM FLOOR

**CEILING TAG**

- KEY

**KEY NOTE**

- EXTERIOR ELEVATION DETAIL NUMBER
- SHEET WHERE ELEVATION IS DRAWN

**EXTERIOR ELEVATION**

- CONTRACT FURNISHED, CONTRACT INSTALLED
- OWNER FURNISHED, CONTRACT INSTALLED
- OWNER FURNISHED, OWNER INSTALLED
- CONTRACT FURNISHED, OWNER INSTALLED

**EQUIPMENT TAGS**

**FINISH TAG**

- WALL FINISH ON THIS WALL IF WALL FINISHES VARY (DASHES IF WALL FINISHES VARY)
- WALL FINISH IF ALL WALLS THE SAME (DASHES IF WALL FINISHES VARY)
- BASE FINISH
- FLOOR FINISH

1. EACH CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS AND OBTAIN ALL MEASUREMENTS REQUIRED FOR PROPER EXECUTION OF 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, DOOR HARDWARE, ELECTRICAL DEVICES, LABORATORY EQUIPMENT, GRAB BARS, HANDRAILS, CASEWORK AND MILLWORK.
3. THE TRANSITION OF DIFFERENT FLOORING MATERIALS AT A DOORWAY SHALL OCCUR AT THE CENTERLINE OF DOOR UNLESS INDICATED OTHERWISE.
4. 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 EQUIPMENT EXPOSED IN FINISHED SPACES UNLESS INDICATED OTHERWISE.
5. REPAIR ALL SURFACES DAMAGED BY RENOVATION AND NEW CONSTRUCTION TO MATCH EXISTING ADJACENT OR CONTIGUOUS FINISH.
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.
7. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED MEASUREMENTS. DO NOT SCALE DRAWINGS.
8. DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.
9. UNLESS OTHERWISE NOTED, PLAN DIMENSIONS ARE TAKEN FROM FACE OF CMU OR CONCRETE TO FACE OF FINISH, OR FACE OF FINISH TO FACE OF FINISH.
10. DOORS NOT OTHERWISE DIMENSIONED SHALL BE 8" FROM FACE OF ADJACENT CMU OR CONCRETE WALL TO ROUGH DOOR OPENING, AND 4" FROM FACE OF ADJACENT STUD WALL TO ROUGH DOOR OPENING.
11. FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE PRODUCT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND STANDARD DETAILS, IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATION REQUIREMENTS AND DESIGN INTENT.
12. PROVIDE FIRE EXTINGUISHERS FE AND FIRE EXTINGUISHER CABINETS FEC AS INDICATED ON THE PLANS. PROVIDE TYPE AND SIZE AS SPECIFIED. MOUNT AT 42" AFF TO TOP OF FE AND 48" AFF TO TOP OF FEC.
13. CONTRACTOR SHALL LAYOUT (CHALK) ALL INTERIOR WALLS TO ENSURE DIMENSIONAL ACCURACY PRIOR TO INTERIOR WALL CONSTRUCTION, ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION.

Diagram illustrating the extent of different wall types (Type M, Type X, Type X2, Type X3) in a building layout. The diagram shows a plan view of a room with various wall segments. Labels indicate the extent of each wall type: "EXTENT OF WALL TYPE M" for the top wall, "EXTENT OF WALL TYPE X" for the right wall, "EXTENT OF WALL TYPE X2 (TO CORNER OR TAG)" for the bottom wall, and "EXTENT OF WALL TYPE X3" for the internal partition walls. Specific points are marked with labels X1, X2, and X3.

## GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL REVIEW FINAL CONDITIONS REQUIRED AND PROVIDE ALL DEMOLITION WORK, PATCHING AND REPAIRING AS NECESSARY.
2. LOCATE EXISTING UNDERGROUND UTILITIES IN THE AREAS OF WORK. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF PROTECTION DURING EARTHWORK OPERATIONS. CONSULT UNCHARTED OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT THE ARCHITECT IMMEDIATELY FOR DIRECTIONS AS TO PROCEDURE. COOPERATE WITH OWNER AND UTILITY COMPANIES IN KEEPING RESPECTIVE SERVICES AND FACILITIES IN OPERATION. THE CONTRACTOR SHALL BEAR ALL EXPENSES OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK. INACTIVE OR ABANDONED UTILITIES SHALL BE CAPPED IN ACCORDANCE WITH LOCAL RESTRICTIONS. REMOVE INACTIVE SERVICES (PLUMBING, MECHANICAL, ELECTRICAL, ETC.) AS REQUIRED TO MAINTAIN OPERATION.
3. ALL ELECTRICAL, MECHANICAL AND PLUMBING SERVICES LOCATED IN WALLS, CEILING, OR FLOORS TO BE REMOVED SHALL BE CAPPED AND REROUTED AS REQUIRED FOR NEW CONDITIONS AND IN ACCORDANCE WITH APPLICABLE CODES.
4. CONTRACTOR SHALL PROVIDE ALL NECESSARY DEMOLITION FOR NEW PLUMBING, MECHANICAL AND ELECTRICAL WORK AS REQUIRED. COORDINATE WITH CONSTRUCTION DOCUMENTS FOR NEW CONSTRUCTION.
5. REMOVE ALL EXISTING FLOOR FINISHES AND PREPARE SLAB TO RECEIVE NEW FLOOR FINISHES IN ACCORDANCE WITH THE NEW FLOOR FINISH MANUFACTURER'S WRITTEN RECOMMENDATIONS UNLESS NOTED OTHERWISE.
6. REMOVE ALL EXISTING WALL FINISHES ON PARTITIONS DESIGNATED TO REMAIN AND PATCH AND REPAIR ALL WALLS UNLESS NOTED OTHERWISE. COORDINATE WITH CONSTRUCTION DOCUMENTS FOR NEW CONSTRUCTION IN ACCORDANCE WITH SPECIFICATION SECTION 01045, CUTTING AND PATCHING, UNLESS NOTED OTHERWISE.
7. DEMOLITION / RESTORATION ITEMS MAY NOT BE ALL INCLUSIVE. THE DEMOLITION CONTRACTOR SHALL REVIEW THE REQUIREMENTS OF NEW CONSTRUCTION AND COMPLETE ALL DEMOLITION / RESTORATION, CUTTING AND PATCHING NECESSARY TO ACHIEVE INTENDED NEW CONDITION AND QUALITY.
8. REMOVE FROM BUILDING SITE DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS. TRANSPORT AND LEGALLY DISPOSE OF OFF SITE. PROVIDE THE OWNER WITH THE RIGHT OF FIRST REFUSAL.
9. ALL DEMOLITION WORK INVOLVED ON THE DEMOLITION PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK.
10. RELOCATION OF ANY ITEMS INDICATED IN THE WORK IS SUBJECT TO THE CONTRACTOR'S ABILITY TO DO SO WITHOUT PERMANENTLY DAMAGING OR MARRING THE ITEMS TO BE RELOCATED. IF THE CONTRACTOR IS UNABLE TO RELOCATE ANY ITEM AS PRESCRIBED HEREIN, SHE SHALL CONSULT ARCHITECT FOR DIRECTION. SAFELY STORE MATERIAL TO BE REUSED UNTIL TIME OF INSTALLATION.
11. CONTRACTOR SHALL PROTECT ALL STRUCTURAL MEMBERS FROM DAMAGE.

AB	ANCHOR BOLTS	GA	GAUGE	R	RISER
ABBREV	ABBREVIATION(S)	GALV	GALVANIZED	R	RADIUS
AC	AIR CONDITIONING	GR	GRADE	REF	ROOF DRAIN
ACOUS	ACOUSTICAL	GYP	GYPSUM	REFL	REFERENCE
AD	ACCESS DOOR			REIN	REFLECTED
AE	ARCHITECT/ENGINEER			REOD	REINFORCED
AFF	ABOVE FINISHED FLOOR	H	HIGH	RES	REQUIRED
ALUM	ALUMINUM	HC	HOLLOW CORE	RES	RESILIENT
APPR	APPROVED	HDWD	HARDWOOD	RL	RAIN LEADER
APPROX	APPROXIMATELY	HDWE	HARDWARE	RM	ROOM
		HM	HOLLOW METAL	RO	ROUGH OPENING
		HORIZ	HORIZONTAL		
BD	BOARD	HP	HIGH POINT		
BLDG	BUILDING	HT	HEIGHT	SC	SOLID CORE
BLK	BLOCK			SCHED	SCHEDULE
BLKG	BLOCKING			SECT	SECTION
BM	BEAM	ID	INSIDE DIAMETER	SHEET	SHEET
BM	BENCHMARK	INFO	INFORMATION	SIM	SIMILAR
BOB	BOTTOM OF BEAM	INSUL	INSULATION	SIMUL	SIMULATED
BOC	BOTTOM OF CURB	INT	INTERIOR	SJ	SAW JOINT
BOT	BOTTOM			SPCS	SPECIFICATIONS
BUR	BUILT-UP ROOFING	JAN	JANITOR	SS	STAINLESS STEEL
				SQ	SQUARE
				STA	STATION
C/C	CENTER TO CENTER			STD	STANDARD
CEM	CEMENT	LAV	LAVATORY	STL	STEEL
CH	CEILING HEIGHT	LB	POUND	STOR	STORAGE
CJ	CONTROL JOINT	LEV	LEVEL	STRUCT	STRUCTURAL
CL	CENTRAL LINE	LF	LINEAR FEET	SUSP	SUSPENDED
CLG	CEILING	LTG	LIGHTING	SYM	SYMMETRICAL
CLO	CLOSET	LTWT	LIGHT WEIGHT		
CLR	CLEAR	LVR	LOUVER		
CMU	CONCRETE MASONRY UNIT			T	TREAD
COL	COLUMN	MAINT	MAINTENANCE	T & G	TONGUE & GROOVE
COMP	COMPOSITION	MAT	MATERIAL	TOC	TRAFFIC DECK COVERING
CONC	CONCRETE	MAX	MAXIMUM	TEL	TELEPHONE
CONN	CONNECTION	MB	MACHINE BOLT	TEMP	TEMPERED
CONST	CONSTRUCTION	MECH	MECHANICAL	THK	THICK
CONT	CONTINUOUS	MEZZ	MEZZANINE	TJ	TOOLED JOINT
CONTR	CONTRACTOR	MFR	MANUFACTURER	TOC	TOP OF CONCRETE
CORR	CORRIDOR	MIN	MINIMUM	TOC	TOP OF CURB
CORS	COURSE, COURSES	MISC	MISCELLANEOUS	TOJ	TOP OF JOIST
CSK	COUNTERSINK	MO	MASONRY OPENING	TOM	TOP OF MASONRY
CT	CERAMIC TILE	MTL	METAL	TOP	TOP OF PARAPET
CUST	CUSTODIAL	MULL	MULLION	TOS	TOP OF STEEL
				TOW	TOP OF WALL
				TYP	TYPICAL
DBL	DOUBLE	N	NEW		
DEG	DEGREE	NIC	NOT IN CONTRACT		
DET	DETAIL	NO	NUMBER	UL	UNDERWRITERS
DF	DRINKING FOUNTAIN	NOM	NOMINAL	LABORATORY	
DIA	DIAMETER	NR	NON-RATED	UNO	UNLESS NOTED OTHERWISE
DIAG	DIAGONAL	NTS	NOT TO SCALE		
DIM	DIMENSION				
DIR	DIRECTION			VER	VERIFY
DN	DOWN	OC	ON CENTER	VERT	VERTICAL
DO	DOOR OPENING	OD	OUTSIDE DIAMETER	VEST	VESTIBULE
DOOR	DOOR	OF	OWNER FURNISHED		
DS	DOWNSPOUT	OFF	OFFICE		
DWG	DRAWING	OH	OPPOSITE HAND	W	WIDE
		OPNG	OPENING	W	WITH
		OPP	OPPOSITE	WC	WATER CLOSET
EA	EACH	ORD	OVERFLOW ROOF DRAIN	WD	WOOD
EJ	EXPANSION JOINT	ORIG	ORIGINAL	WI	WROUGHT IRON
EL	ELEVATION			WL	WATER LEVEL
ELEC	ELECTRICAL			W/O	WITHOUT
ELEV	ELEVATOR	PC	PORTLAND CEMENT	WP	WORKING POINT
EQ	EQUAL	PL	PLATE	WP	WATERPROOFING
EQUIP	EQUIPMENT	PLAM	PLASTIC LAMINATE		
EXIST	EXISTING	PLAS	PLASTIC		
EXT	EXTERIOR	PLYWD	PLYWOOD	YR	YEAR
EW	ELEC WATER COOLER	PNT	PAINT		
		PR	PAIR		
		PREP	PREPARATION		
		PROJ	PROJECTION		
FD	FLOOR DRAIN				
FDN	FOUNDATION				
FE	FIRE EXTINGUISHER	QT	QUARRY TILE		
FEC	FIRE EXTINGUISHER				

WALL TYPES									
WALL TYPE CATEGORY	WALL TYPE	INDICATION ON 1/4" SCALE FLOOR PLANS	DETAIL  3/4" = 1'-0"	DESCRIPTION	FIRE RATING / U.L. NO. WHERE INDICATED ON LIFE SAFETY PLAN SEE U.L. ASSEMBLIES				REMARKS
					SMOKE Aveg_Rating_Smoke	1 HR, Aveg_Rating_1Hr	2 HR, Aveg_Rating_2Hr	4 HR, Aveg_Rating_4Hr	
CMU "M"	M			8" CMU					
CMU "M"	M1			8" CMU					

WALL TYPE NOTES			
1.	PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS AND THROUGH-PENETRATION FIRESTOP DEVICES, SEALANTS AND RELATED PRODUCTS FOR FIRE-RATED FLOOR AND WALL PENETRATIONS (AND SEALING TOP OF RATED WALLS TO DECK). ALL RATED WALL PENETRATIONS SHALL MAINTAIN THE INTEGRITY OF THE WALL ASSEMBLY.	4.	WHERE TWO LAYERS OF GYPSUM BOARD OCCUR IN A NON-RATED WALL ASSEMBLY, TAPE AND FINISH SECOND LAYER ONLY.
2.	PROVIDE ACOUSTICAL SEALANT AT ALL WALLS WITH SOUND ATTENUATION BLANKETS.	5.	PROVIDE CONSTRUCTION IN ACCORDANCE WITH THE UL DESIGN NUMBER INDICATED.
3.	ALL STUDS SHALL BE SPACED AT 16" O.C. UNLESS NOTED OTHERWISE. ALL Furring CHANNELS SHALL BE SPACED AT 16" O.C. UNLESS NOTED OTHERWISE.	6.	WHERE CHASE, PILASTER, AND COLUMN ENCLOSURES OCCUR, GYPSUM BOARD MAY BE OMITTED ON CONCEALED SIDE UNLESS REQUIRED FOR FIRE RATING.
		7.	WHERE GYPSUM BOARD ABUTS CMU CONSTRUCTION, PROVIDE CONTINUOUS J-MOLD AND SEALANT AT JOINT.

## □ □ □ ARCHITECTURE □ □ □

Suite 37  
Sarasota, Fl 34236  
voice 941.952.5875  
fax 941.957.3630  
schenkelshultz.com  
SS Lic No - AA-C000937

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James H Robison  
AR 12813

2650 Gulf Drive South  
Bradenton, Florida 34217

**Beach Side Restrooms  
Renovations**

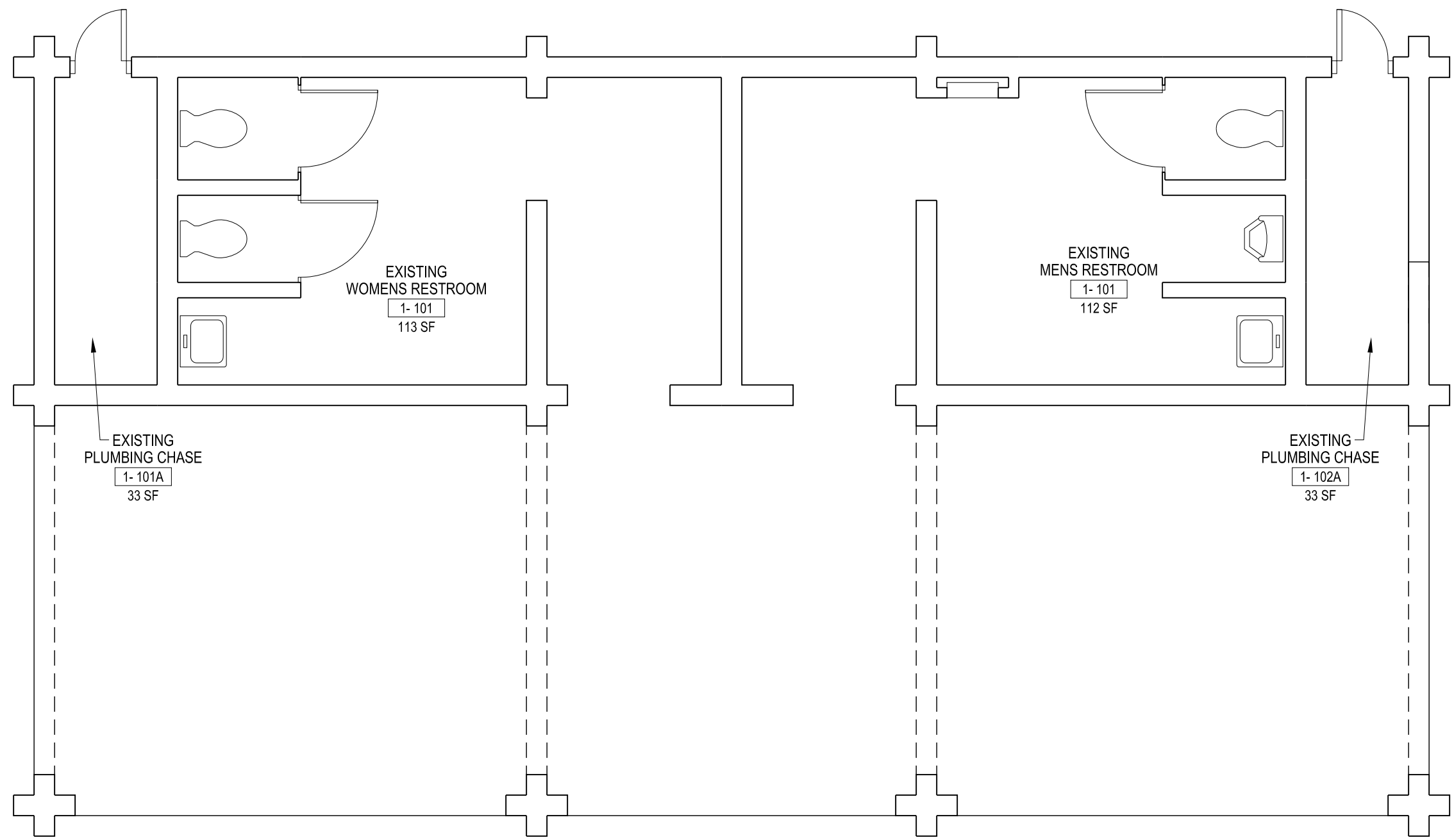
Manatee County Government  
1112 Manatee Avenue West  
Bradenton, Florida 34208

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

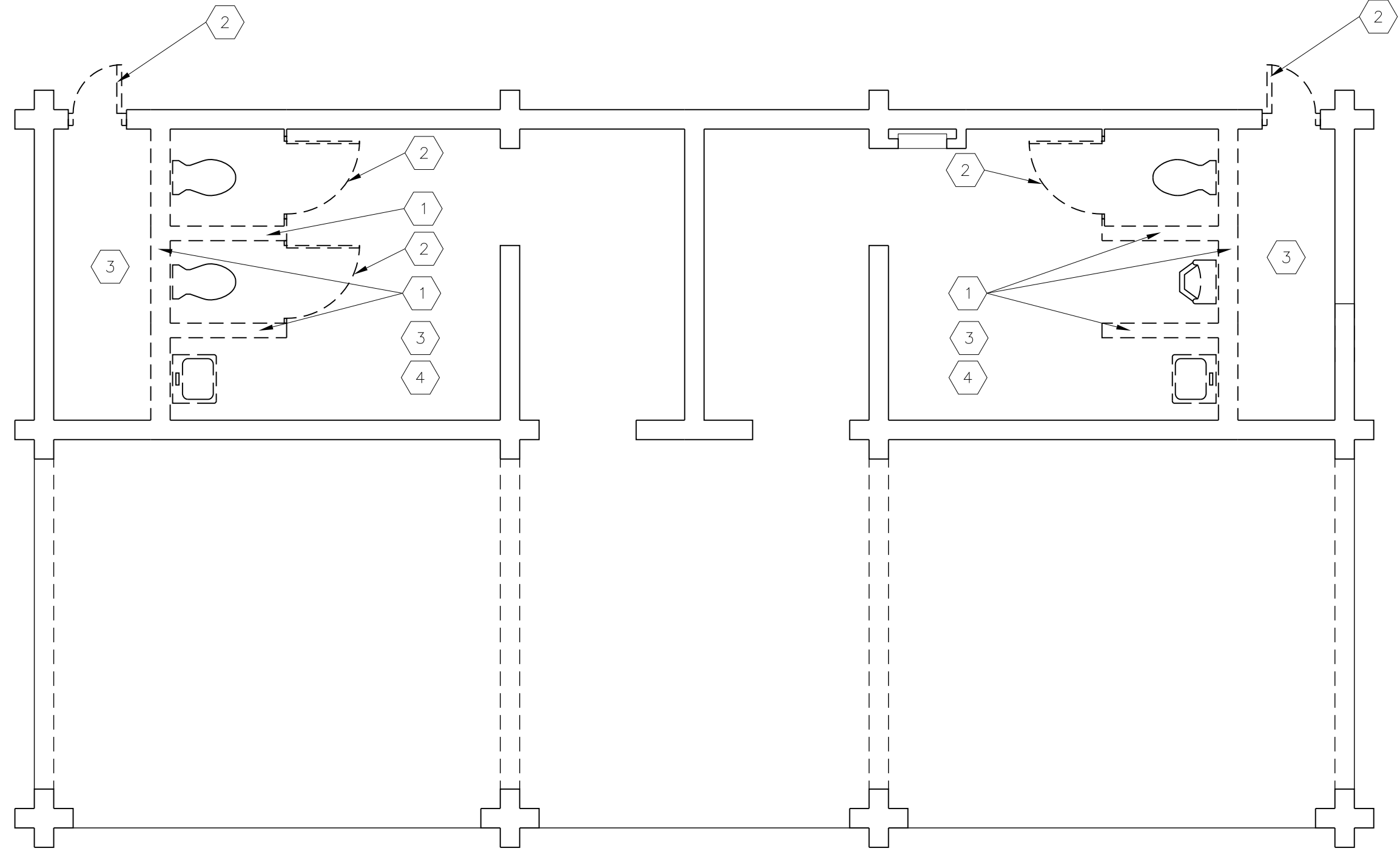
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Permit drawings

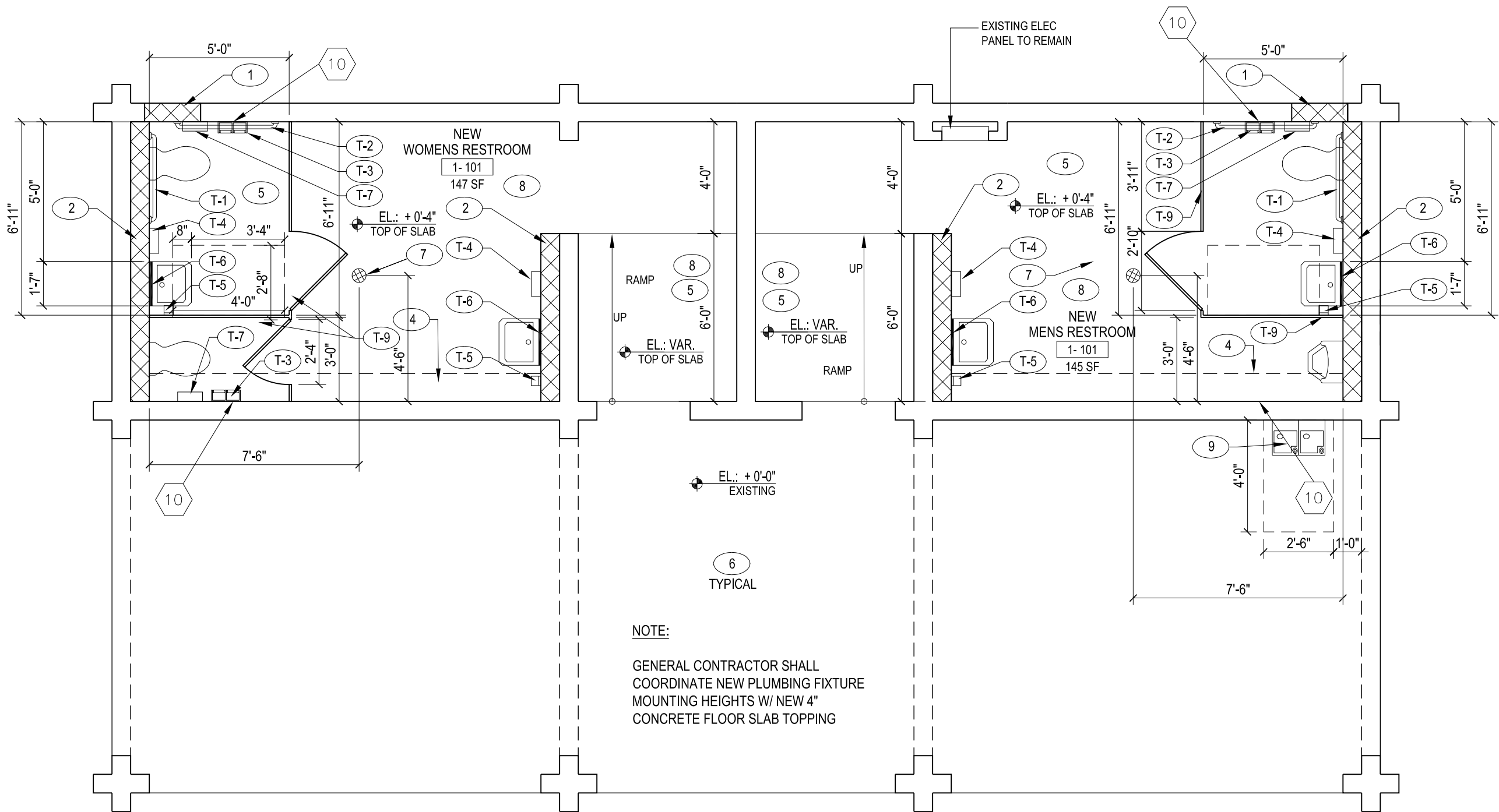
## Permit drawings



1 BEACH SIDE RESTROOMS  
EXISTING FLOOR PLAN  
1/4"=1'-0"



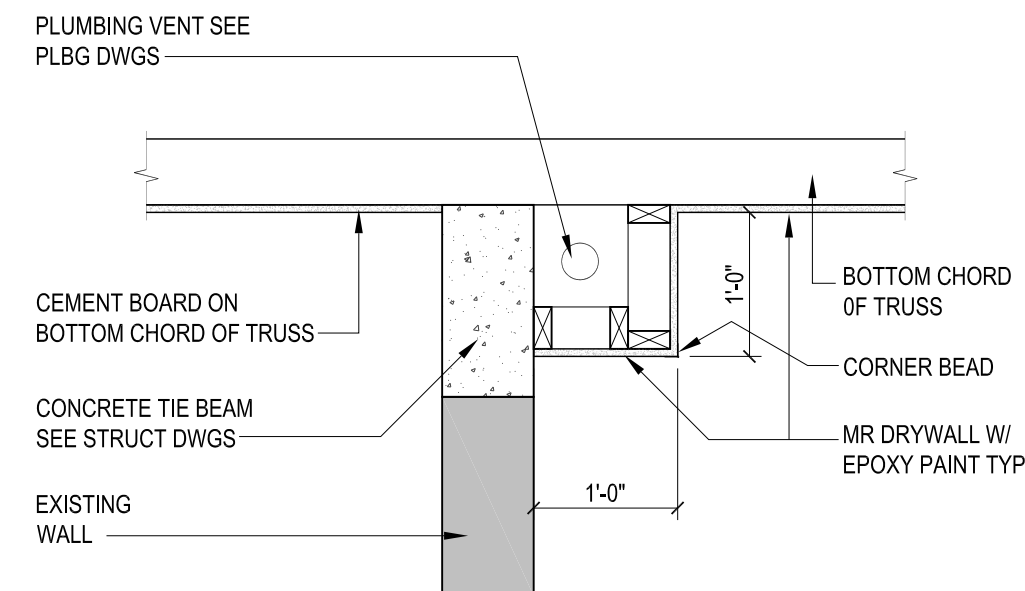
2 BEACH SIDE RESTROOMS  
DEMOLITION FLOOR PLAN  
1/4"=1'-0"



3 BEACH SIDE RESTROOMS  
FLOOR PLAN  
1/4"=1'-0"

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.



4 SOFFIT DETAIL  
3/4" = 1'-0"

TOILET ACCESSORY SCHEDULE			
TAG	ACCESSORY	MTG HGT	MODEL NO.
T-1	HORIZONTAL GRAB BAR - 36"	33" TO $\Phi$	B-6806
T-2	HORIZONTAL GRAB BAR - 42"	33" TO $\Phi$	B-6806
T-3	TOILET TISSUE DISPENSER	19 3/4" TO TOP	B-2740
T-4	ELECTRIC HAND DRYER	54" TO TOP	SEE SPECS
T-5	SURFACE MOUNTED SOAP DISPENSER	50 5/8" TO TOP	B-132
T-6	CHANNEL FRAME MIRROR	40" TO BOTTOM	B-165
T-7	SANITARY NAPKIN DISPENSER	25" TO 30" TOP	B-270
T-8	UTILITY SHELF W/ MOP/BROOM HOLDERS	72" AFF	B-239
T-9	TOILET PARTITION	SEE SPECS	

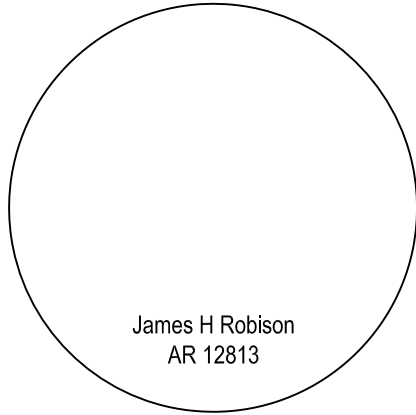
## Key Plan Notes

- NEW 8" x 8" x 16" CMU (TYPICAL "U.N.O.") EXTERIOR WALL. SEE STRUCTURAL DRAWINGS FOR WALL DESCRIPTION. PREPARE & PAINT
  - NEW 8" x 8" x 16" CMU (TYPICAL "U.N.O.") INTERIOR WALL. SEE STRUCTURAL DRAWINGS FOR WALL DESCRIPTION. PREPARE & PAINT
  - EXISTING CMU WALL TO REMAIN. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
  - SOFFIT FOR VENT PIPE SEE 4/A101.
  - INTERIOR SURFACES (WALLS AND CEILINGS) SHALL BE PAINTED WITH EPOXY PAINT PER SPECIFICATIONS. FOR COLOR COORDINATE WITH OWNER/ARCHITECT.
  - PREPARE & PAINT ALL EXISTING & NEW CMU WALLS. SEE SPECIFICATIONS.
  - NEW FLOOR DRAIN TO TIE INTO EXISTING WASTE PLUMBING LINES. REFER TO SHEET P101.
  - SEAL EXISTING/NEW FLOOR SLAB PER SPECIFICATIONS.
  - HI-LOW DRINKING FOUNTAIN PER SPECIFICATIONS & SHEET P101.
  - PATCH & REPAIR CMU WALLS WHERE EXISTING WALL REMOVED PRIOR TO PAINTING.
- \* UNLESS NOTED OTHERWISE

## 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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## Coquina Beach

2650 Gulf Drive South  
Bradenton, Florida 34217

### Beach Side Restroom Renovation

Manatee County Government  
1112 Manatee Avenue West  
Bradenton, Florida 34208

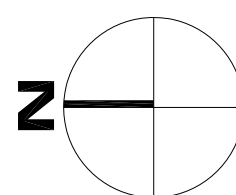
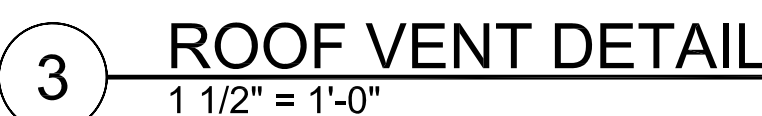
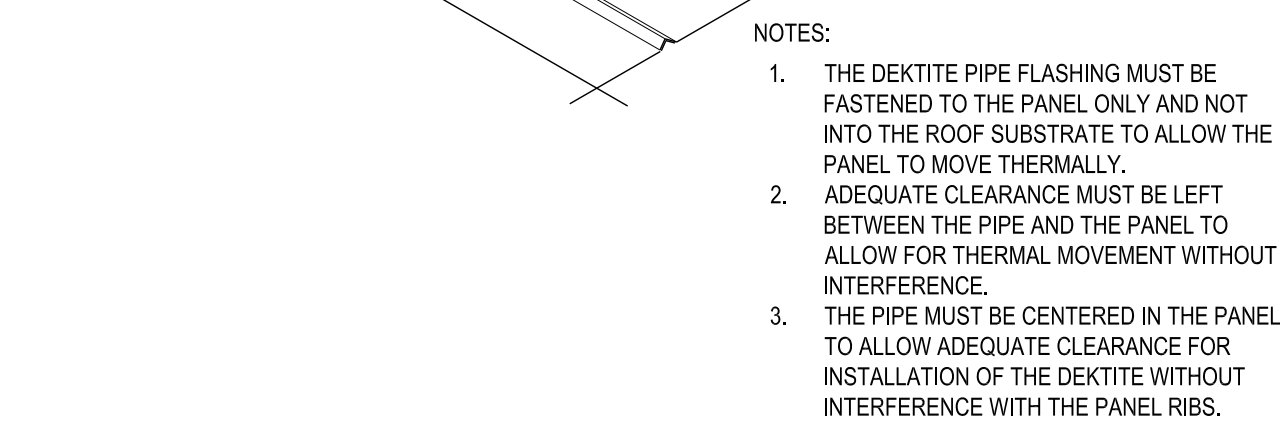
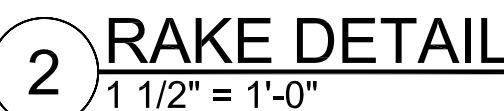
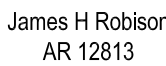
drawn: JR  
checked: KD  
date: 04.13.12  
comm. no.: 0920829

## FLOOR PLANS

A101

permit drawings





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

# A103

## Permit drawings



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 COPPER 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.

1P	SINGLE POLE	MCA	MINIMUM CIRCUIT AMPS
1PH	SINGLE--PHASE	MCB	MAIN CIRCUIT BREAKER
3PH	THREE--PHASE	MDP	MAIN DISTRIBUTION PANEL
A OR AMP	AMPERE	MIN	MINIMUM
AFB	ABOVE FINISHED FLOOR	MLO	MAIN LUGS ONLY
AFG	ABOVE FINISHED GRADE	MOCP	MAXIMUM OVER CURRENT
AIC	AMPERE INTERRUPTING		PROTECTION
	CAPACITY	NEC	NATIONAL ELECTRICAL CODE
AMP	AMPERE	[N]	NEW
AWG	AMERICAN WIRE GAUGE	[NL]	NEW LOCATION OF EXISTING
CB	CIRCUIT BREAKER	PH	PHASE
CKT	CIRCUIT	PNL	PANEL
CLG	CEILING (TYPICALLY CEILING MOUNTED)	[R]	EXISTING TO BE REMOVED
CM	CONSTRUCTION MANAGER	[RL]	EXISTING TO BE RELOCATED
CU	COPPER	[RP]	EXISTING TO BE REPLACED
EQPT	EQUIPMENT	RMC	RIGID METAL CONDUIT
EMT	ELECTRICAL METALLIC TUBING	SPD	SURGE PROTECTION DEVICE
[E]	EXISTING TO REMAIN	TBD	TO BE DETERMINED
FA	FIRE ALARM	TYP	TYPICAL
FACP	FIRE ALARM CONTROL PANEL	UON OR UNO	UNLESS OTHERWISE NOTED
FLA	FULL LOAD AMPS	UPS	UNINTERRUPTIBLE POWER
G OR GRD	GROUND	V	VOLTS
GFI	GROUND FAULT CIRCUIT INTERRUPTER	VFD	VARIABLE FREQUENCY DRIVE
HP	HORSE POWER	WP	WEATHERPROOF, FULLY GASKETED ALUMINUM BACKBOX
J--BOX	JUNCTION BOX		WITH IMC RACEWAY AND THREADED FITTINGS. PROVIDE COMPONENTS WITH U.L. WET LABEL
KVA	KILOVOLT AMPERE	XFMR	TRANSFORMER
KW	KILOWATT		
kWh	KILOWATT HOUR		
LC	LOAD CENTER		
LED	LIGHT EMITTING DIODE		
LFMC	LIQUID TIGHT FLEXIBLE METAL 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:

"EW" 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

PNL 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

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) INDICATES BRANCH CIRCUIT NUMBER.

LOWER CASE LETTER (i.e. 'o') 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. 'o') 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

ELECTRICAL LEGEND

SCHENKELSHULTZ

ARCHITECTURE

677 North Washington Blvd.  
Sarasota, FL 34235  
voice 941.952.5875  
fax 941.957.3630  
schenkelshultz.com  
SS Lic No - AA-C000937

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ME3

CONSULTING ENGINEERS, LLC

11065 Gatewood Drive, Suite 104  
Bradenton, FL 34211  
Tel: 941-748-1319 Fax: 941-748-1349  
www.me3-engineer.com einfo@me3-engineer.com  
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. 2/2002  
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TO THE BEST OF MY KNOWLEDGE, SAID PLANS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE BUILDING CODES.

BRYAN P. ZAPP, P.E.  
FL# 46141

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

ELECTRICAL LEGEND

E001

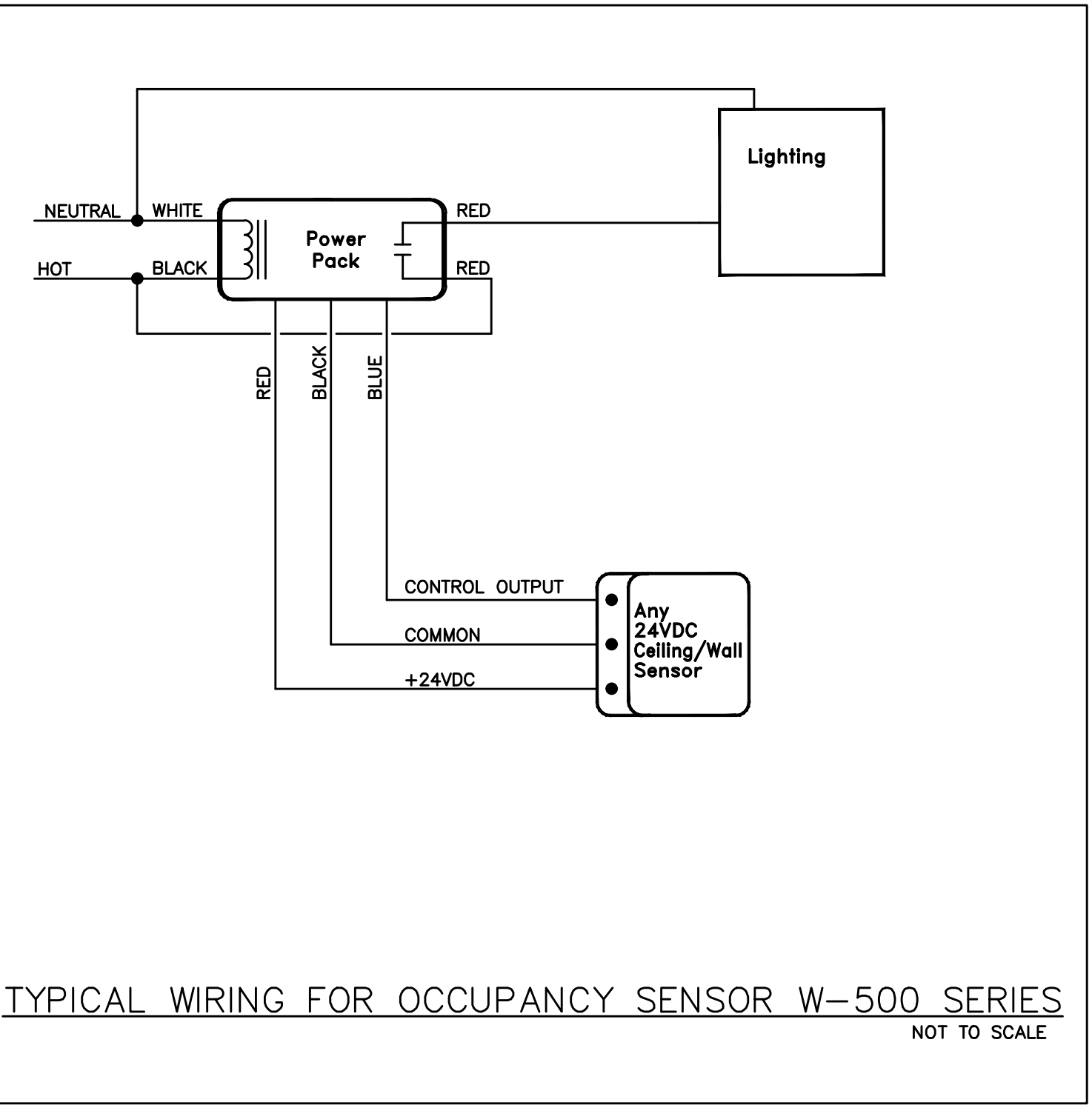
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OCCUPANCY SENSOR LEGEND AND SCHEDULE MANATEE COUNTY PARKS AND RECREATION			
TYPE	DESCRIPTION	MANUFACTURER/ CATALOG NUMBER	SEE SCHEDULE NOTES
⑤➔	CEILING MOUNTED, ULTRASONIC OCCUPANCY SENSOR, 24V, TWO-SIDED, UP TO 360 DEGREES AND 500 SQUARE FEET OF DETECTION 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.

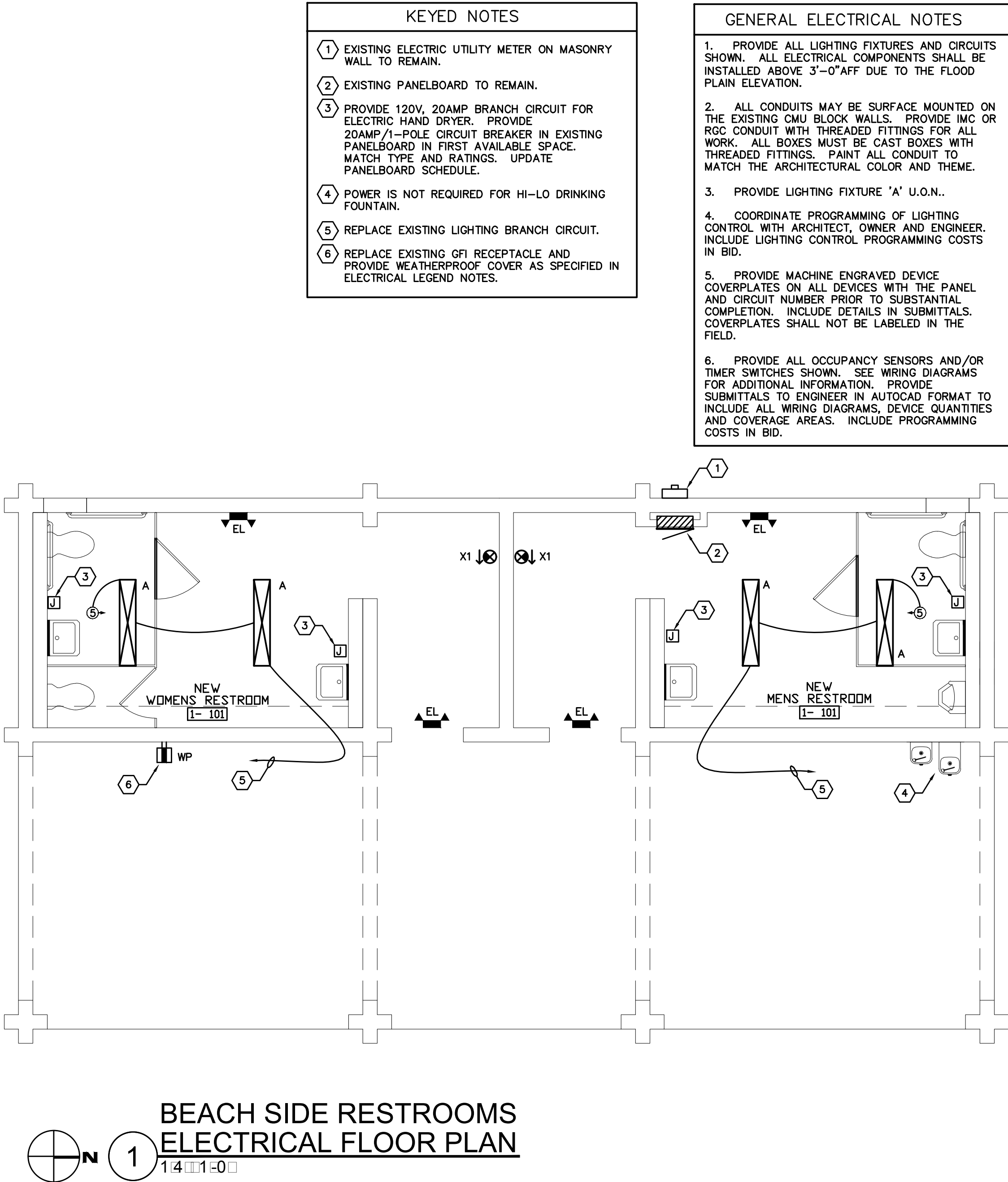
- SCHEDULE NOTES (APPLICABLE WHERE REFERENCED):
1. THE DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR THE FINAL FIELD VERIFICATION OF THE REQUIRED NUMBER OF POWER PACKS. THE DIVISION 26 CONTRACTOR SHOULD PROVIDE:
- A. PROVIDE ONE POWER PACK PER SENSOR FOR EACH SPACE/AREA THAT IS TO BE CONTROLLED. PROVIDE AN ADDITIONAL POWER PACK FOR EACH EXHAUST FAN IN THE SAME SPACE AS THE SENSOR. WIRE THESE IN PARALLEL.
- 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.



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

FIX. TYPE	DESCRIPTION	MANUFACTURER / CATALOG NUMBER	VOLTS	LAMP INFORMATION		TOTAL INPUT WATTS	SEE SCHEDULE NOTES
				QTY	TYPE		
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	120	2	32W T8-4100K	60W	4
		DAY BRITE LIGHTING EQUIVALENT					
		COOPER LIGHTING EQUIVALENT					
EL	VANDAL RESISTANT DUAL HEAD EMERGENCY LIGHTING FIXTURE WITH BATTERY PACK AND WIRE GUARD	DUAL LITE EZ-2I-VRS-WGEL	120	---	FACTORY INSTALLED LAMPS	20W	1,2
		DAY BRITE LIGHTING EQUIVALENT					
		COOPER LIGHTING EQUIVALENT					
X OR X1	VANDAL RESISTANT SINGLE FACE EXIT SIGN WITH GREEN LETTERS, BATTERY PACK AND WIRE GUARD	DUAL LITE SC30WE-WGLX	120	---	FACTORY INSTALLED LAMPS	3.5W	1,2,3
		DAY BRITE LIGHTING EQUIVALENT					
		COOPER LIGHTING EQUIVALENT					

- GENERAL NOTES:
- 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.
- D. PROVIDE PROGRAMMED START ELECTRONIC BALLAST(S) FOR FLUORESCENT LIGHTING FIXTURES FROM ONE OF THE FOLLOWING MANUFACTURERS: SYLVANIA #0HE2X32T8 SERIES OR ADVANCE #VNZS32S35M SERIES. NO OTHER SUBSTITUTIONS ARE PERMITTED REGARDLESS OF FIXTURE CATALOG NUMBER NOMENCLATURE. PROVIDE UNIVERSAL BALLAST VOLTAGE REGARDLESS OF CATALOG NUMBER.
- E. PROVIDE FLUORESCENT FIXTURES MOUNTED OUTSIDE BUILDING WITH A COLD WEATHER BALLAST REGARDLESS OF FIXTURE CATALOG NUMBER.
- 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.
- H. MANUFACTURER'S REPRESENTATIVE FOR MOST OF THE ABOVE PRODUCT LINES IS WESTERN FLORIDA LIGHTING, TAMPA. CONTACT JEFF MORRIS FOR ASSISTANCE IN SUBMITTAL PREPARATION.
- I. 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.
3. 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.



ELECTRICAL LOAD SUMMARY	
SUM OF LOADS REMOVED:	240W
LOADS ADDED:	6240W
NET TOTAL INCREASE/DECREASE:	6000W
AMPERES PER PHASE @ 240V, 1-PHASE:	26 AMPS
THEREFORE, LOADS REMAIN SATISFACTORY UPON PROJECT COMPLETION (100AMP PANELBOARD).	

### SCHENKELSHULTZ

ARCHITECTURE

677 North Washington Blvd.  
Sarasota, FL 34235  
voice 941.952.5875  
fax 941.957.3630  
schenkelshultz.com  
SS Lic No - AA-C000937

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Brodenton, FL 34211  
Tel: 941-748-1319 Fax: 941-748-1349  
www.me3-engr.com eding@me3-engr.com  
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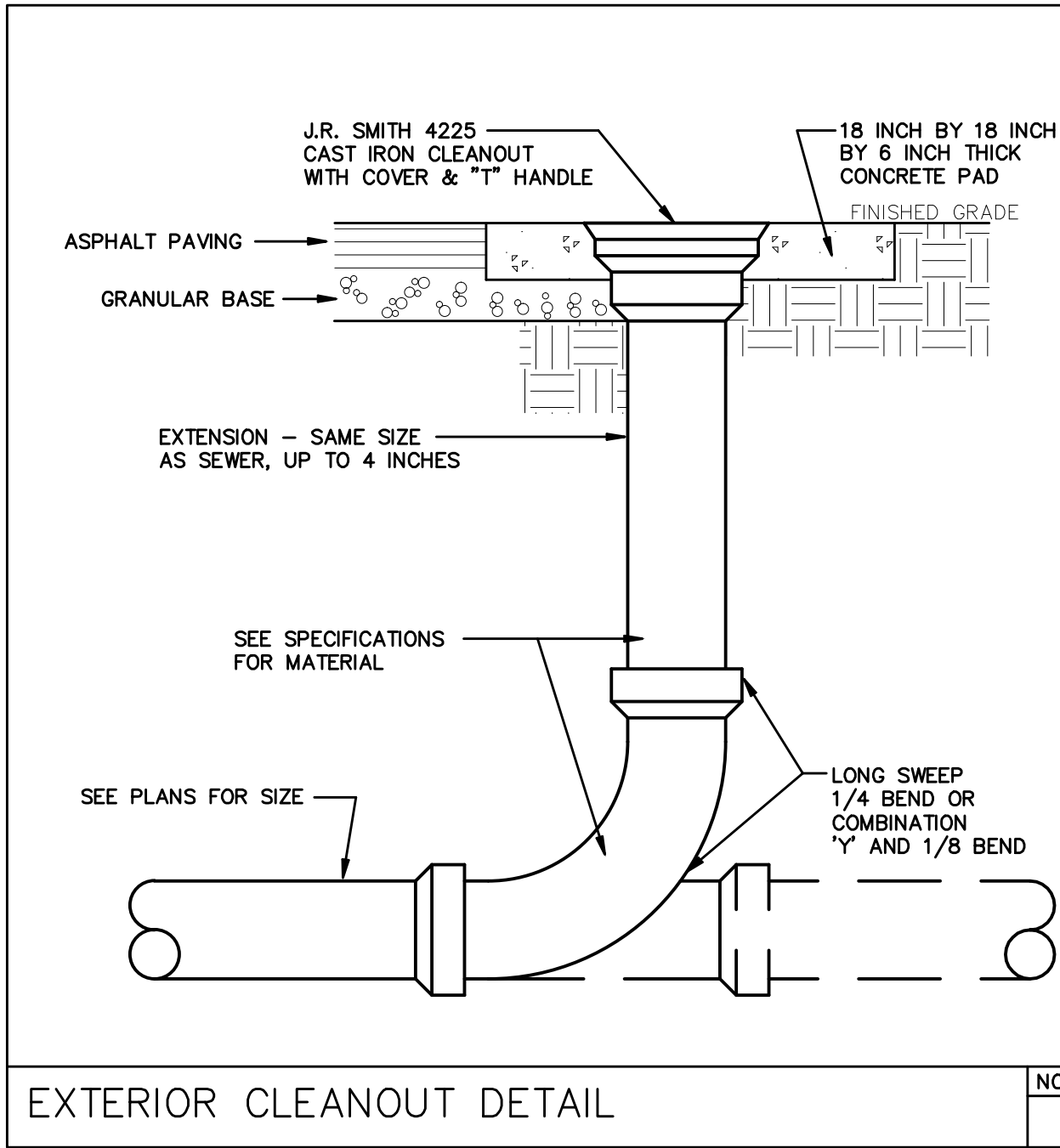
revisions:

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

### ELECTRICAL FLOOR PLAN

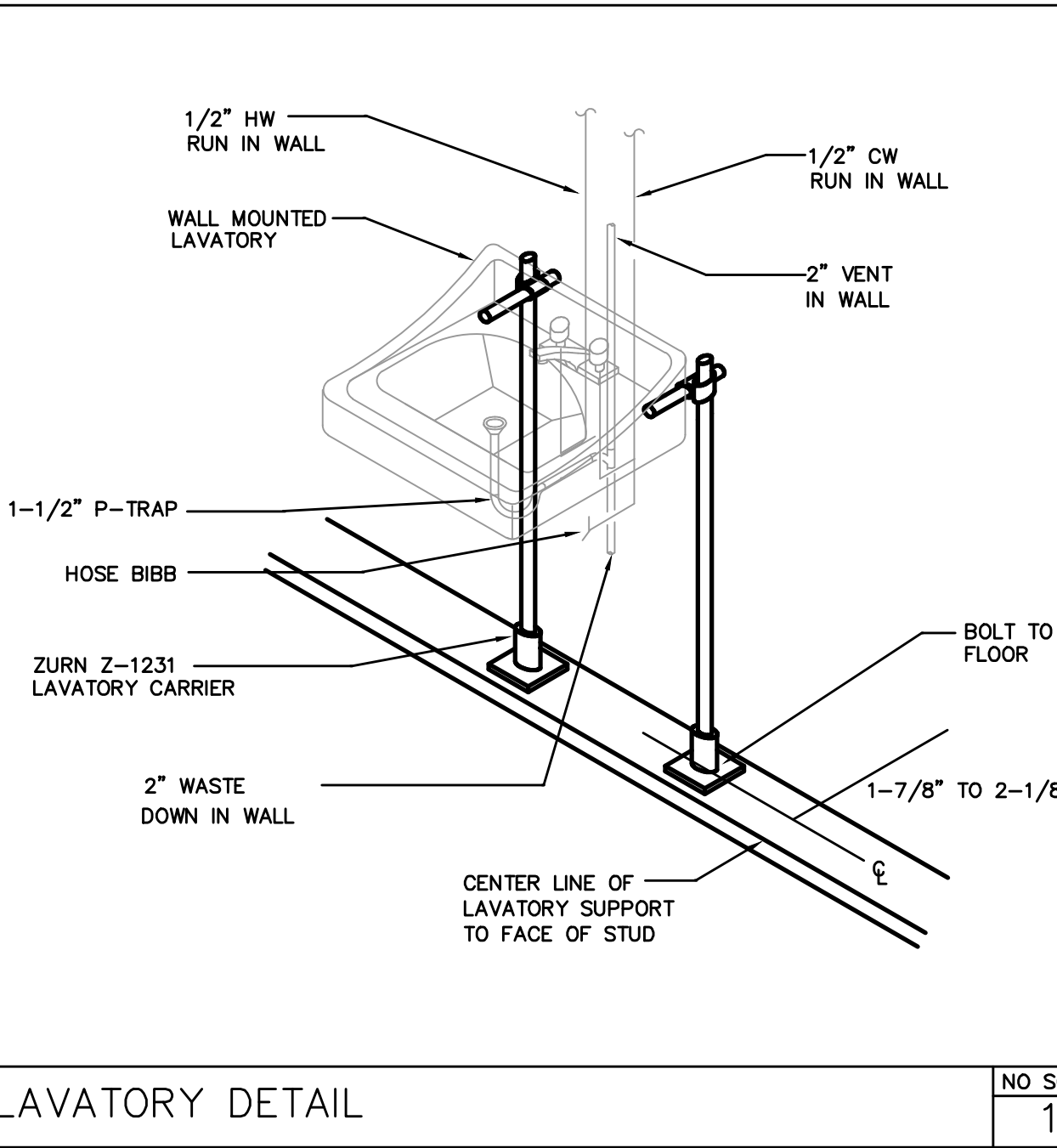
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permit drawings



EXTERIOR CLEANOUT DETAIL

NO SCALE  
1



LAVATORY DETAIL

NO SCALE  
1

### GENERAL PLUMBING NOTES

1. 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 STANDARDS.
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.

### 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	-	-	HEAVY DUTY 14 GA. TYPE 304 STAINLESS STEEL HI/LO DRINKING FOUNTAIN POLISHED CHROME BUBBLERS, STAINLESS STEEL BACK PANEL, INTEGRATED TRAP, ANTIMICROBIALY TREATED, PUSH BUTTON ACTIVATED.	4
<div>PLUMBING NOTES: 1. MCQUIRE CAST BRASS P-TRAP WITH TUBULAR WALL BEND (SIZE AS REQUIRED). P-TRAPS IN CONCEALED SPACES MAY BE PVC. 2. MCQUIRE 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.</div> <div>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.</div>							

### FLORIDA BUILDING CODE 2007 – PLUMBING FIXTURE UNIT SCHEDULE

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	-	-	-	-	-	-	-	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	-	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.

### PLUMBING LEGEND

DESCRIPTION	LINETYPE
COLD WATER	_____
HOT WATER	_____
HOT WATER RETURN	_____
SANITARY BELOW GRADE	_____ SAN
EXISTING BELOW GRADE SANITARY	_____ SAN (E)
SANITARY VENT	_____
BALANCING VALVE	_____
BALL VALVE	_____
CHECK VALVE	_____
SOLENOID VALVE	_____
VALVE IN VALVE BOX	_____
PRESSURE REDUCING VALVE	_____
UNION	_____
STRAINER	_____
PIPE UP	_____
PIPE DOWN	_____
TEE UP	_____
TEE DOWN	_____
AREA DRAIN AND TYPE	_____ 4" AD-1
FLOOR DRAIN AND TYPE	_____ 4" FD-A
FLOOR CLEANOUT	_____
CLEANOUT PLUG	_____
EXTERIOR CLEANOUT AND TYPE	_____ 3" ECO
CAP	_____
SHOCK ARRESTOR AND PDI SIZE	_____ PDI-A
P-TRAP	_____
HOSE BIBB	_____ HB
WALL HYDRANT	_____ WH
REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTOR	_____
EXISTING WORK	_____
FLOW DIRECTION	_____
CONNECTION POINT OF NEW TO EXISTING	_____

### ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE	IE	INVERT ELEVATION
ADA	AMERICANS WITH DISABILITIES ACT		
AD	AREA DRAIN	MAX	MAXIMUM
AFG	ABOVE FINISHED GRADE	MIN	MINIMUM
BTUH	BRITISH THERMAL UNITS PER HOUR	NEC	NATIONAL ELECTRICAL CODE
BWV	BACK WATER VALVE	NIC	NOT IN CONTRACT
		NTS	NOT TO SCALE
CD	CONDENSATE DRAIN		
CO	CLEAN OUT	PDI	PLUMBING & DRAINAGE INSTITUTE
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
FCO	FLOOR CLEANOUT	TEMP	TEMPERATURE
F	DEGREES FAHRENHEIT	TYP	TYPICAL
FD	FLOOR DRAIN	UL	UNDERWRITER'S LABORATORIES, INC.
FT	FEET	UNO	UNLESS NOTED OTHERWISE
FBC	FLORIDA BUILDING CODE		
FPC	FLORIDA PLUMBING CODE	VTR	VENT THRU ROOF
		V	VENT
GAL	GALLONS		
GPM	GALLONS PER MINUTE	W/	WITH
		WCO	WALL CLEAN OUT
HB	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

### SCHENKELSHULTZ

ARCHITECTURE

677 North Washington Blvd.  
Sarasota, FL 34235  
voice 941.952.5875  
fax 941.957.3630  
schenkelshultz.com  
SS Lic No - AA-C000937

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### ME3

CONSULTING ENGINEERS, LLC  
11065 Gatewood Drive, Suite 104  
Bradenton, FL 34211  
Tel: 941-748-1319 Fax: 941-748-1349  
www.me3-engineers.com eiding@me3-engineers.com  
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. 2/2002  
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TO THE BEST OF MY KNOWLEDGE, SAID PLANS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE BUILDING CODES.

KAY C. CLEM, P.E.  
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

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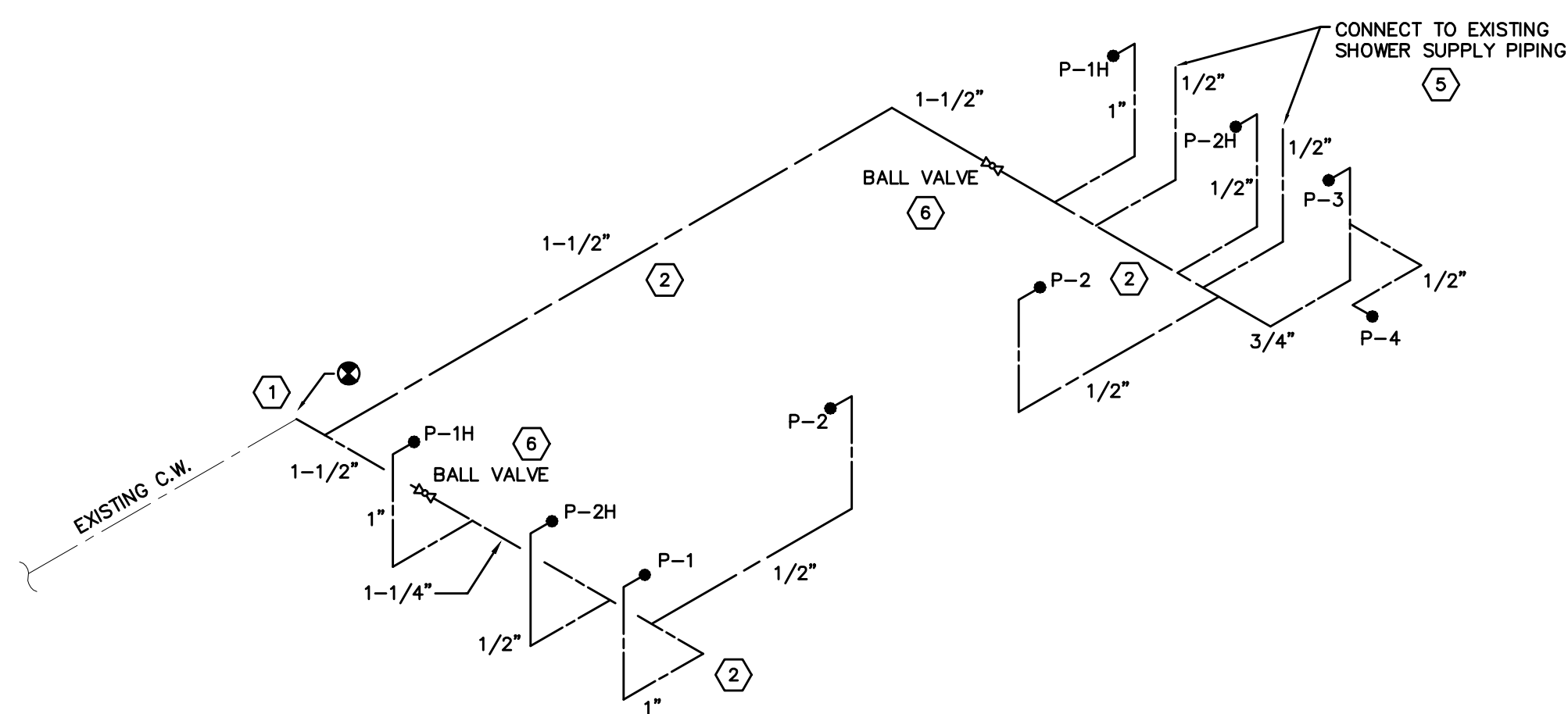
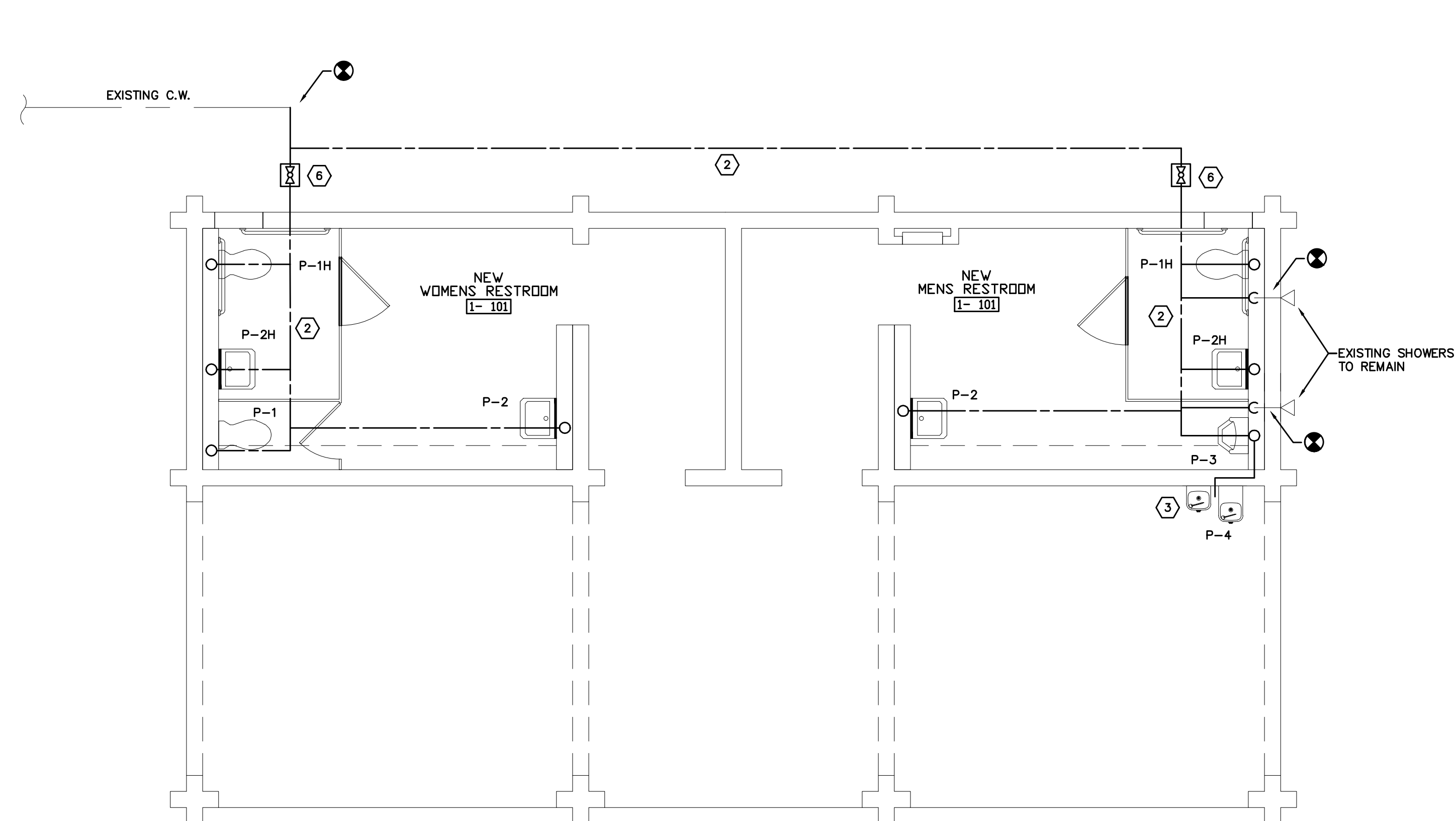
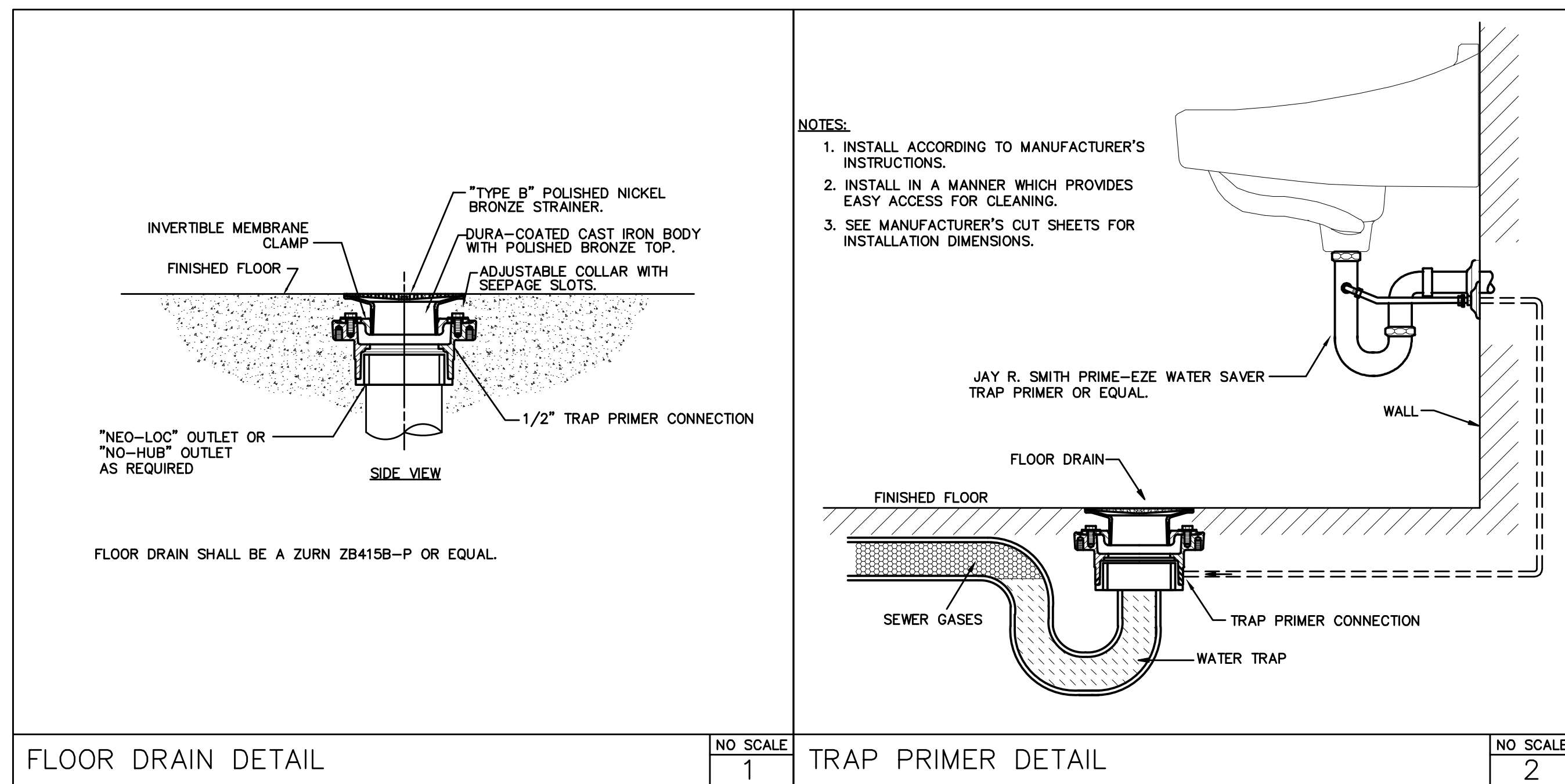
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### PLUMBING LEGEND & SCHEDULES

### P001

permit drawings





- ## PLUMBING KEYED NOTES

