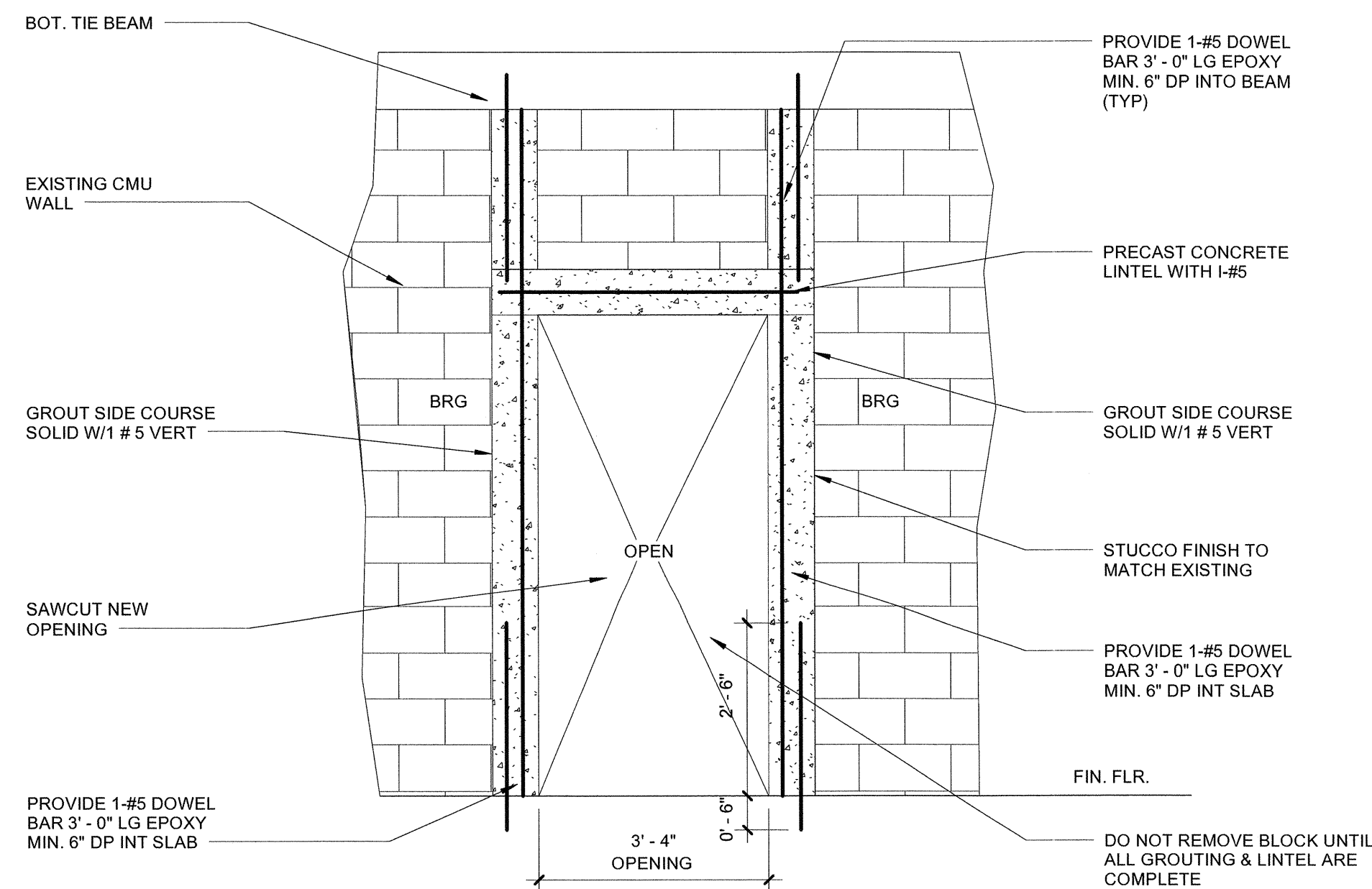


**1 DEMOLITION PLAN**  
SCALE: 3/8" = 1'-0"



**1 NEW OPENING ON EXISTING WALL DETAIL - TYP.**  
SCALE: 1/2" = 1'-0"

**LEGEND:**

—	DENOTES EXISTING TO REMAIN
- - -	DENOTES EXISTING TO BE REMOVED

- GENERAL DEMOLITION NOTES:**
- EXISTING FLOORING TO BE REMOVED OR PREPARED AS REQUIRED TO RECEIVE NEW FLOOR FINISH. FLOOR IS TO BE CLEANED AND PATCHED IN PREPARATION FOR NEW FLOORING.
  - OWNER TO PROVIDE CURRENT ASBESTOS REPORT.
  - ALL EXISTING STRUCTURAL COLUMNS, WALLS, ETC. TO REMAIN.
  - PATCH AND REPAIR ALL EXISTING PERIMETER WALLS IN AREA OF WORK TO REMAIN FOR LIKE NEW FINISH.
  - CONTRACTOR TO MAINTAIN BUILDING IN A WATERTIGHT AND SECURE CONDITION AT ALL TIMES.
  - G.C. MUST COORDINATE WITH OWNER'S REPRESENTATIVE FOR PROCEDURES REGARDING HANDLING OF DEBRIS, CONSTRUCTION MATERIALS AND EQUIPMENT.
  - TOWN WILL SALVAGE EXISTING FIXTURES, LIGHTING, ACCESSORIES AND EQUIPMENT TO BE REMOVED. GC TO RETURN ALL SALVAGEABLE ITEMS TO OWNER.
  - SEE CIVIL PLANS FOR PROPOSED CONSTRUCTION STAGING PLAN FOR LOCATION OF MATERIALS STORAGE & CONSTRUCTION TRAILER (IF REQUIRED)
- NOTE: GC TO PROVIDE FIVE PORTABLE CHEMICAL TOILETS (2 MEN, 2 WOMEN, 1 UNISEX ADA ACCESSIBLE) FOR PUBLIC USE DURING RENOVATIONS TO EXISTING RESTROOMS AT LAKE SHORE PARK. LOCATION TO BE WITHIN THE PARKING LOT OF THE LAKE SHORE PARK TENNIS COURTS. FINAL LOCATION & ORIENTATION TO BE DETERMINED. CHEMICAL TOILETS SHALL BE MAINTAINED AT A MINIMUM OF TWICE PER WEEK OR MORE FREQUENTLY IF DOORS BECOME A NUISANCE TO THE ADJACENT RESIDENTS.

NO.	REVISION	DATE
1	BID SET	07/31/15
2	RE-BID	11/06/16

CONSULTANT:

**CPZ ARCHITECTS, INC.** LAKE SHORE PARK RESTROOM FACILITY  
LAKE SHORE DR  
LAKE PARK, FL.  
4516 WEST BROWARD BOULEVARD  
PLANTATION, FLORIDA 33317  
TEL: (954) 371-0589  
AA 0200085 WWW.CPZARCHITECTS.COM



DRAWING TITLE:

DEMOLITION PLAN

DRAWN: DL

CHECKED: CPZ

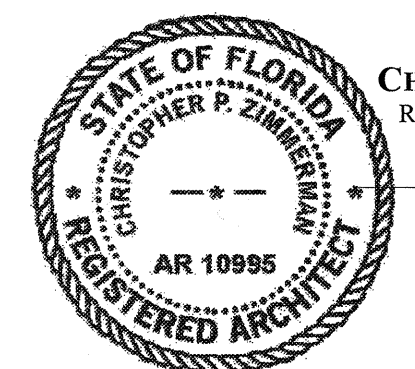
DATE: 11/06/16

SCALE: As indicated

PROJECT NO. 1533

SHEET:

**SPECIFIED BRAND NAMES ARE FOR DESCRIPTIVE PURPOSES ONLY. EQUAL EQUIPMENT OR MATERIAL WILL BE ACCEPTED. SEE CONTRACT MANUAL FOR MINIMUM REQUIREMENTS FOR ESTABLISHING EQUALITY**



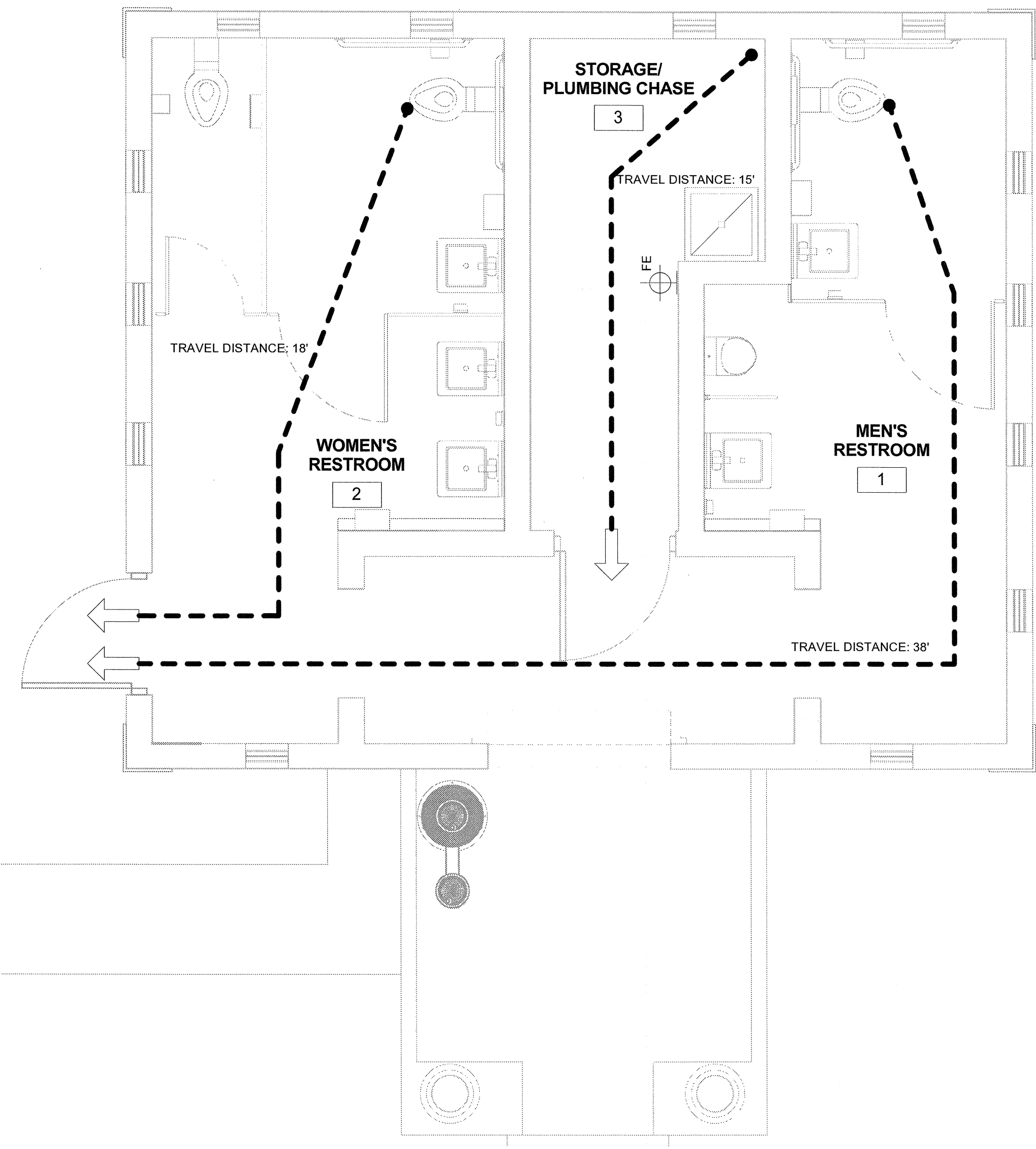
**CHRIS P. ZIMMERMAN, A.I.A.**  
REGISTERED ARCHITECT NO. 10,995  
STATE OF FLORIDA

DATE: 11/06/16

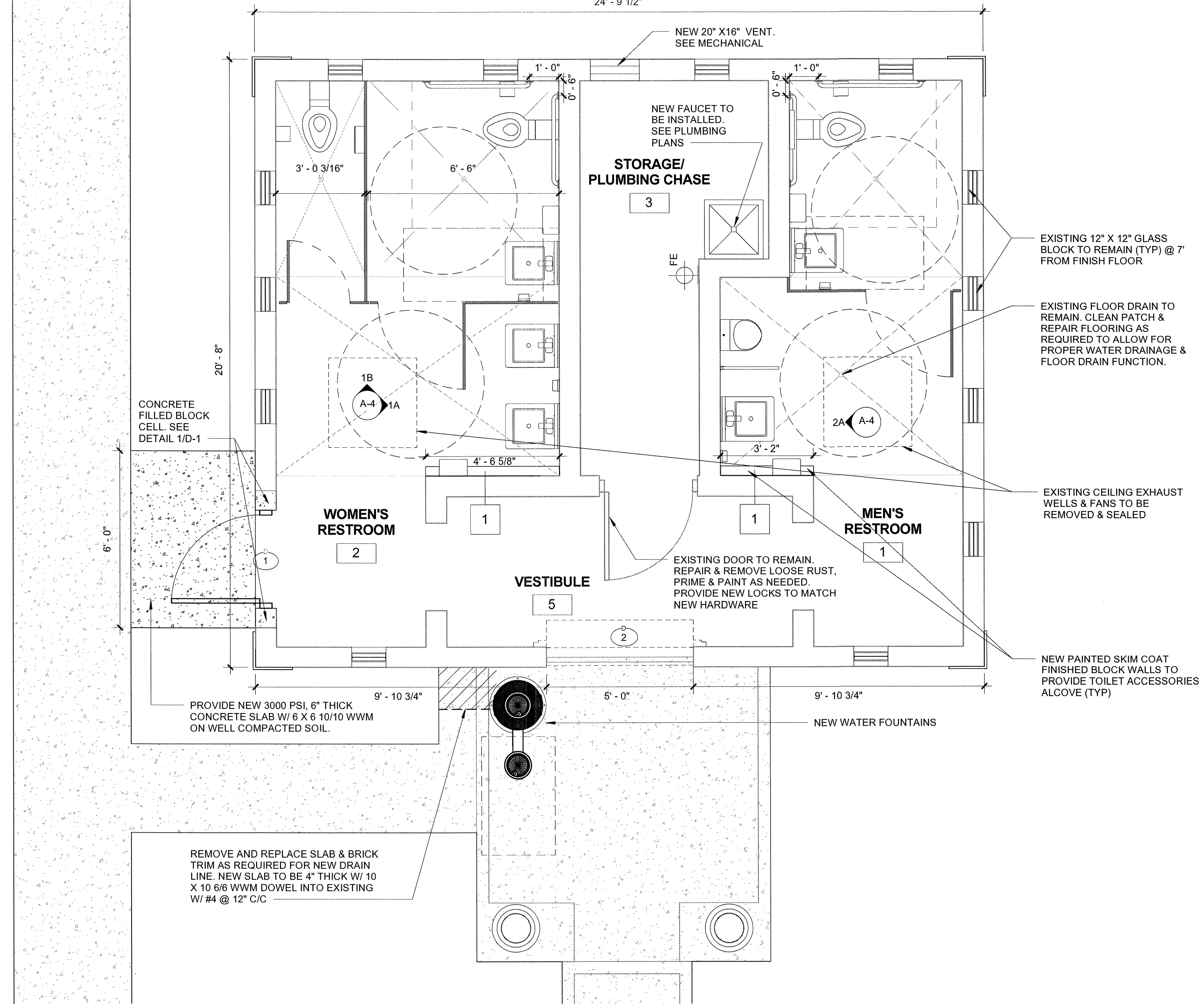
**D-1**

Z:\CPZ\Architects\2015\Project Files\1533 Lake Park Restroom\Building Progress Model\LAKE SHORE\1533 Lake Shore Park Restroom Plan R10.rvt  
11/06/16 10:24:42 AM





**LIFE SAFETY PLAN**  
SCALE: 3/8" = 1'-0"



**FLOOR PLAN**  
SCALE: 3/8" = 1'-0"

**LIFE SAFETY LEGEND:**

--- DENOTES PATH OF TRAVEL

FE FIRE EXTINGUISHER MOUNTED ON BRACKET

**FIRE EXTINGUISHERS:**

EXTINGUISHMENT REQUIREMENTS (NFPA10-6.2):

(1) 2-A RATED SINGLE EXTINGUISHER (AT MINIMUM, PER EVERY 3000 SQ. FT. NOT TO EXCEED 75'-0" OF TRAVEL MOUNT CABINET W/ OPERATING INSTRUCTIONS FACING OUTWARDS.

MOUNT FIRE EXTINGUISHER ON STANDARD WALL BRACKET @ 48" A.F.F.

CONTRACTOR PROVIDE SHOP DRAWING SUBMITTAL OF EXTINGUISHERS PRIOR TO ORDERING.

NOTE: DURING CONSTRUCTION CONTRACTOR TO PROVIDE PORTABLE EXTINGUISHERS PER NFPA 1141 SECTION 9.2.

**FLOOR PLAN LEGEND:**

--- DENOTES NEW STALL PARTITION

▤ DENOTES NEW CMU WALL

— DENOTES EXISTING WALL

101 DOOR TAG

FE FIRE EXTINGUISHER MOUNTED ON BRACKET

**FLOOR PLAN NOTES:**

1. SEE FINISH SCHEDULE AND PLAN FOR FLOOR AND WALL FINISHES ON SHEET A-4.

2. CONTRACTOR TO COORDINATE ALL WORK WITH OWNER'S REPRESENTATIVE.

**MISCELLANEOUS NOTES:**

1. IF FLAMMABLE OR COMBUSTIBLE LIQUIDS WILL BE STORED, HANDLED, OR USED ON THE CONSTRUCTION SITE, THEY SHALL COMPLY W/ NFPA 1 SECTION 16.2.3 CLASSIFICATION OF HAZARD CONTENTS PER NFPA101 SECTION 6.2.2.3 "ORDINARY HAZARD CONTENT"

2. THRESHOLD AT ALL EXTERIOR DOOR OPENINGS SHALL NOT EXCEED 1/2" (13 MM) IN HEIGHT PER NFPA 101 SECTION 7.2.1.3.3

<b>BUILDING CODE INFORMATION</b>		<b>PROPERTY ADDRESS:</b> Lake Shore Dr Lake Park, FL 33403	
<b>GOVERNING CODE:</b> FLORIDA BUILDING CODE 5th EDITION (2014) ACCESSIBILITY, BUILDING, ENERGY CONSERVATION, EXISTING BUILDING, FUEL GAS, MECHANICAL, PLUMBING, RESIDENTIAL, TEST PROTOCOLS. FLORIDA FIRE PREVENTION CODE 2010 EDITION NFPA 101 2009 ED.	<b>DESCRIPTION OF WORK:</b> THIS PROJECT CONSISTS OF AN INTERIOR RENOVATION AND RE-ROOF TO AN EXISTING SINGLE STORY RESTROOM BUILDING ON AN EXISTING PUBLIC PARK PROPERTY	<b>CLASSIFICATION OF WORK:</b> ALTERATION - LEVEL 2 PER FLORIDA BUILDING CODE 5th EDITION (2014)- EXISTING BUILDING	
<b>USE AND CLASSIFICATION (FBC-B CHAPTER 3):</b> U-UTILITY & MISC	<b>CONSTRUCTION TYPE (FBC-B CHAPTER 6):</b> III-B	<b>OCCUPANT LOAD (CHAPTER 10):</b> UTILITY: 512 S.F. / 300 S.F. PER OCCUPANT (FBC-B TABLE 1004.1.2) = 2 PERSONS	
<b>BUILDING HEIGHT &amp; AREA LIMITATIONS (FBC-B TABLE 503):</b>	<b>EGRESS:</b> PER FBC-B CHAPTER 10 & NFPA 101 CH. 22		<b>FIRE PROTECTION FEATURES:</b>
MAX. # OF STORIES PERMITTED: 2	MAX. TRAVEL DISTANCE PERMITTED (FBC-B TABLE 1016.2): 300'-0"	MAXIMUM TRAVEL DISTANCE TO FIRE EXTINGUISHERS REQUIRED (NFPA 10): 75'-0"	
MAX. # OF STORIES PROVIDED: 1	MAX. TRAVEL DISTANCE PROVIDED: 38'-0"	MAXIMUM TRAVEL DISTANCE TO FIRE EXTINGUISHERS PROVIDED: LESS THAN 75'-0"	
MAX. HEIGHT PERMITTED: 55'	COMMON PATH OF EGRESS TRAVEL PERMITTED (FBC-B TABLE 1014.3): 100'-0"	NUMBER OF FIRE EXTINGUISHERS PROVIDED: 1	
MAX. HEIGHT PROVIDED: UNDER 20'	COMMON PATH OF EGRESS TRAVEL PROVIDED: LESS THAN 100'-0"	TYPE OF FIRE EXTINGUISHERS PROVIDED: MP5 UL RATING 2A-10B:C (TYPICAL)	
MAX. AREA PERMITTED (PER FLOOR): 8,500 SF	MIN. CORRIDOR WIDTH REQUIRED (FBC-B TABLE 1018.2, 1023.2): 3'-8"	<b>FIRE RESISTANCE RATINGS (FBC-B TABLE 601)</b>	
MAX. AREA PROVIDED (PER FLOOR): 512 SF	CORRIDOR WIDTH PROVIDED: N/A	BUILDING ELEMENT TYPE III-B	
<b>AREA CALCULATIONS:</b>	MAX. DEAD END CORRIDOR PERMITTED (FBC-B 1018.4): 20'-0"	STRUCTURAL FRAME 0	
TOTAL AREA (BLDG.) PROVIDED: 512 SF	MAX. DEAD END CORRIDOR PROVIDED: NONE	BEARING WALLS	
	EGRESS WIDTH PER PERSON REQUIRED (FBC-B 1005.1): 0.2' PER OCC. LEVEL= 0.4" (32" MIN.)	EXTERIOR 2	
	EGRESS WIDTH PER PERSON PROVIDED: 34" (LEVEL)	INTERIOR 0	
	MINIMUM CLEAR OPENING REQUIRED (FBC-B 1008.1.1): 32"	NON BEARING- EXTERIOR 0	
	MINIMUM CLEAR OPENING PROVIDED: 34"	NON-BEARING INTERIOR WALLS & PARTITIONS 0	
	EXITS REQUIRED (FBC-B TABLES 1015.1, 1021, 1021.2): 1	FLOOR CONSTRUCTION 0	
	EXITS PROVIDED: 1 FROM EACH SPACE. TOTAL = 3	ROOF CONSTRUCTION 0	
		FIRE SPRINKLERS NOT PROVIDED	
		CLASSIFICATION OF HAZARD OF CONTENTS (NFPA 101 SECTION 26.1.5) ORDINARY HAZARD CONTENTS	

**SPECIFIED BRAND NAMES ARE FOR DESCRIPTIVE PURPOSES ONLY. EQUAL EQUIPMENT OR MATERIAL WILL BE ACCEPTED. SEE CONTRACT MANUAL FOR MINIMUM REQUIREMENTS FOR ESTABLISHING EQUALITY**

**CHRIS P. ZIMMERMAN, A.I.A.**  
REGISTERED ARCHITECT NO. 10,995  
STATE OF FLORIDA

DATE: 11/06/16

NO.	REVISION	DATE
BID SET		07/31/16
RE-BID		11/06/16

CONSULTANT:  
LAKE SHORE DR  
LAKE PARK, FL.

**CPZ ARCHITECTS, INC.** LAKE SHORE PARK RESTROOM FACILITY

406 WEST BROWARD BOULEVARD  
PLANTATION, FLORIDA 33317  
TEL: (954) 371-6599  
AA 02000885 WWW.CPZARCHITECTS.COM



DRAWING TITLE:  
**LIFE SAFETY & FLOOR PLAN**

DRAWN: DL  
CHECKED: CPZ  
DATE: 11/06/16  
SCALE: As indicated  
PROJECT NO. 1533  
SHEET:





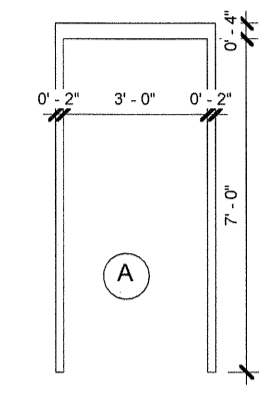




# DOOR SCHEDULE

NUMBER	LOCATION	TYPE	MATERIAL	SIZE			FINISH	UNDER CUT	RATING	HARDWARE	FRAME MATERIAL	FRAME FINISH	JAMB	HEAD	SILL	REMARKS
				W	H	THICKNESS										
1	WOMEN'S RESTROOM	FF	GALV. MTL	3'-0"	7'-0"	1 3/4"	PT	-	-	HW-1	GALV. MTL	PT	6/A-5	7/A-5	8/A-5	
2	VESTIBULE	-	ALUM	5'-0"	8'-0"		PC	-	-	BY MFR	PC	PC				O.H. COILING DOOR

NO.	REVISION	DATE
BID SET		07/31/16
RE-BID		11/06/16



DOOR AND FRAME ELEVATIONS

- DOOR ABBREVIATIONS**
- ALUM ALUMINUM
  - STL STEEL
  - UC UNDERCUT
  - LV LOUVER
  - HG HARDWARE GROUP
  - MTL METAL
  - PT PAINTED
  - SCW-PT SOLID CORE WOOD,
  - PAINTED
  - C.W. CLEAR WIRE
  - T.C. TEMPERED, CLEAR
  - NG NARROW GLASS
  - FG FULL GLASS
  - IM IMPACT GLASS
  - VP VIEW PANEL
  - w/ WITH
  - TYP TYPICAL
  - FF FULL FLUSH
  - WD-PH WOOD PRESHUNG
  - WDP WOOD, PAINTED
  - SF STORE FRONT
  - SP/ILT STORE-FRONT/SIDE-LITE
  - HM HOLLOW METAL
  - LT SIDE-LITE
  - WG WOOD/GLASS
  - PC POWDER COATED

**DOOR NOTES:**

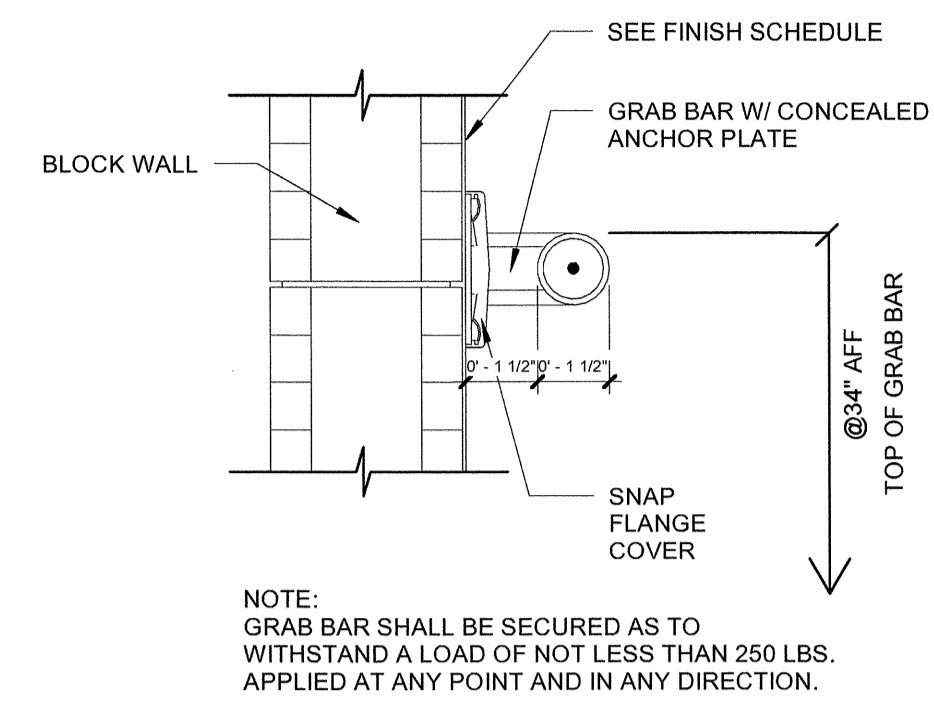
1. DETAILS INDICATE BASIC WALL CONSTRUCTION AND DIMENSIONS. ALSO SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR SPECIAL FINISHES.
2. ALL DOORS AND HARDWARE SHALL COMPLY WITH NFPA 101, SECTION 7.2.1
3. DO NOT UNDERCUT DOORS.

**HARDWARE NOTES:**

1. CONTRACTOR SHALL COORDINATE ALL HARDWARE REQUIREMENTS WITH THE OWNER PRIOR TO ORDERING.
2. ALL HINGES SHALL BE STAINLESS STEEL FINISH, BALL BEARING HINGES. HAGER ECBB 1100 US 32D
3. ALL DOOR CLOSERS TO BE BY LCN GRADE, ADA CODE COMPLIANT AND EQUIPPED WITH HOLD.
4. ALL DOORS AND FRAMES SHALL HAVE DOOR SILENCERS.
5. LOCKSETS SHALL BE SCHLAGE ND - SERIES W/ STAINLESS STEEL FINISH AND EQUIPPED WITH SIX PIN SFC CYLINDERS. WILSON-ROWAN LOCKSMITH IN WEST PALM BEACH IS THE RECOMMENDED VENDOR FOR THE KEYING OF ALL LOCKS TO MATCH THE TOWN'S KEYING SYSTEM.

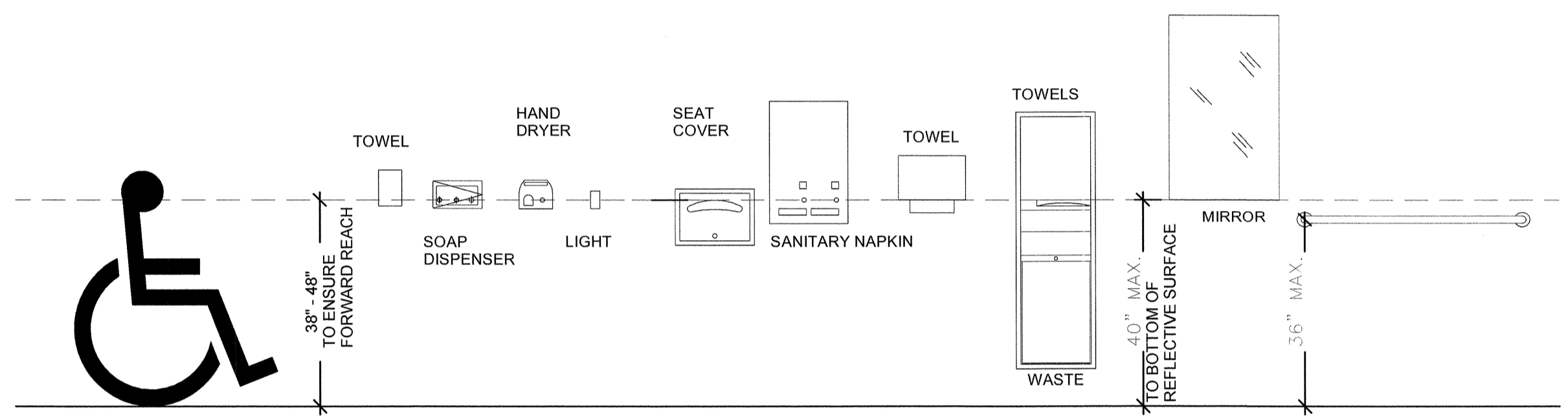
**HARDWARE SCHEDULE:**

- HW-1: RESTROOMS  
 1 1/2 PAIR S.S. BALL BEARING HINGES  
 1 CLASSROOM SECURITY LOCKSET, SCHLAGE ND - SERIES W/ 6 PIN SFC CORES. PROVIDE LEVER HANDLE. FINISH TO BE STAINLESS STEEL.  
 3 SILENCERS  
 1 LCN SERIES 4000 CLOSURE W/ HOLD OPEN, POWDER COATED FINISH, METAL COVER, ADA ACCESSIBILITY CYLINDER - MOUNT ON PUSH SIDE

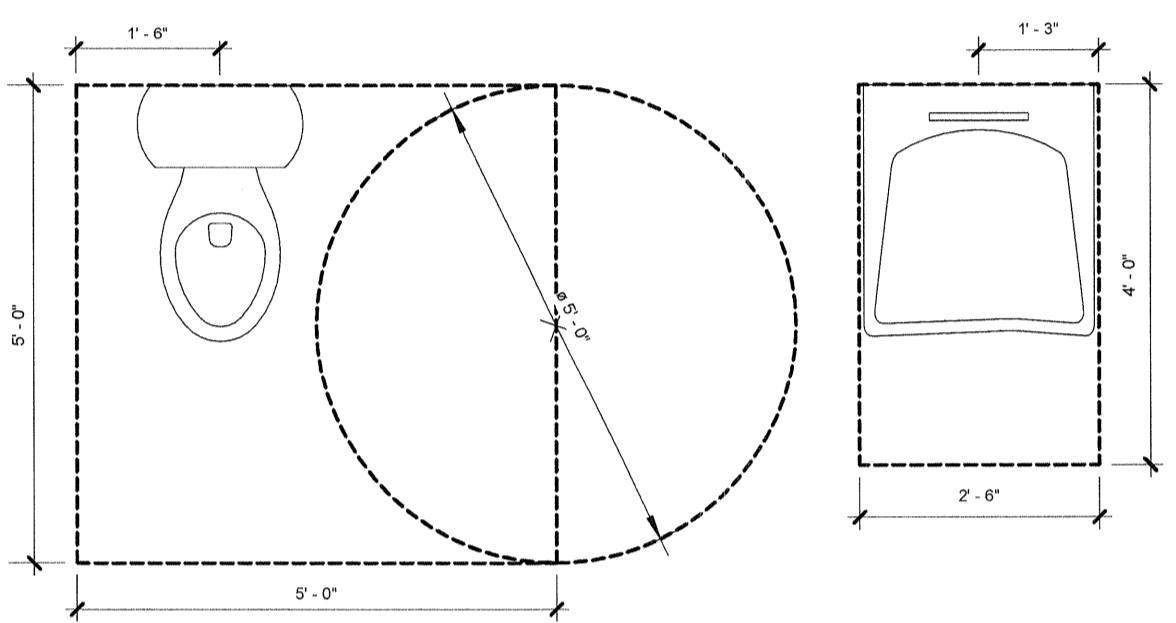


NOTE: GRAB BAR SHALL BE SECURED AS TO WITHSTAND A LOAD OF NOT LESS THAN 250 LBS. APPLIED AT ANY POINT AND IN ANY DIRECTION.

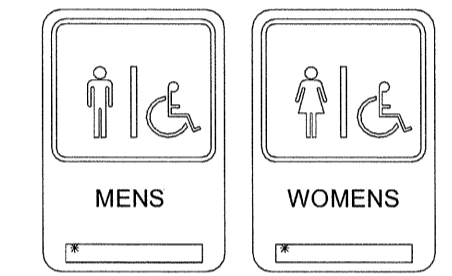
2 BLOCKING DETAIL @ BLOCK WALL



3 ADA TOILET ACCESSORY HEIGHTS

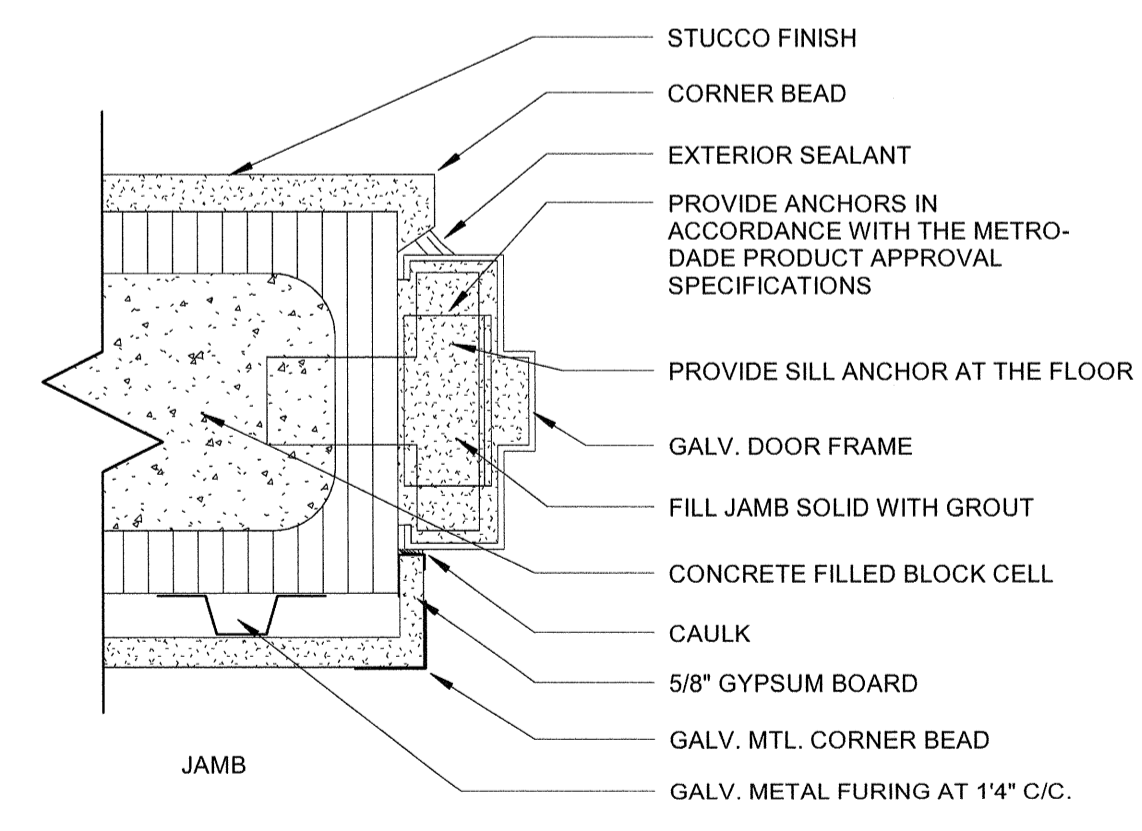


4 ACCESSIBLE WATER CLOSET & LAVATORY REQUIRED CLEAR FLOOR SPACES

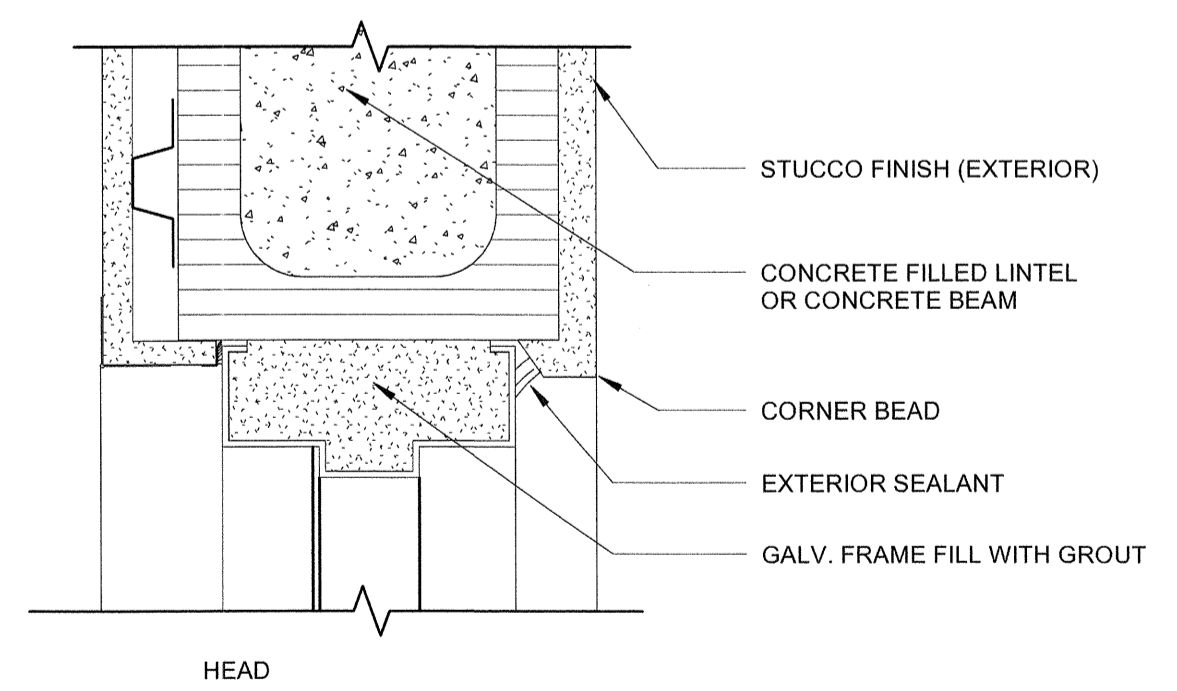


- RAISED LETTERS, BRAILLE & SYMBOLS IN ACCORDANCE WITH ADA.
- ALL CORNERS TO BE RADIUS.
- BACKGROUND COLOR TO BE "194 PEARL GRAY" WITH "103 BLACK" LETTERS. (LRV=90).
- MOUNTING METHOD TO BE CONSTRUCTION ADHESIVE. MOUNTING HEIGHT TO BE 5'-0" A.F.F. TO CENTERLINE OF SIGN.
- ALL SIGNAGE TO BE MOUNTED TO COMPLY WITH ADA REQUIREMENTS.
- SUBMIT SHOP DRAWINGS FOR ARCHITECT'S APPROVAL PRIOR TO FABRICATION.
- SIGNS TO BE ALUMINUM

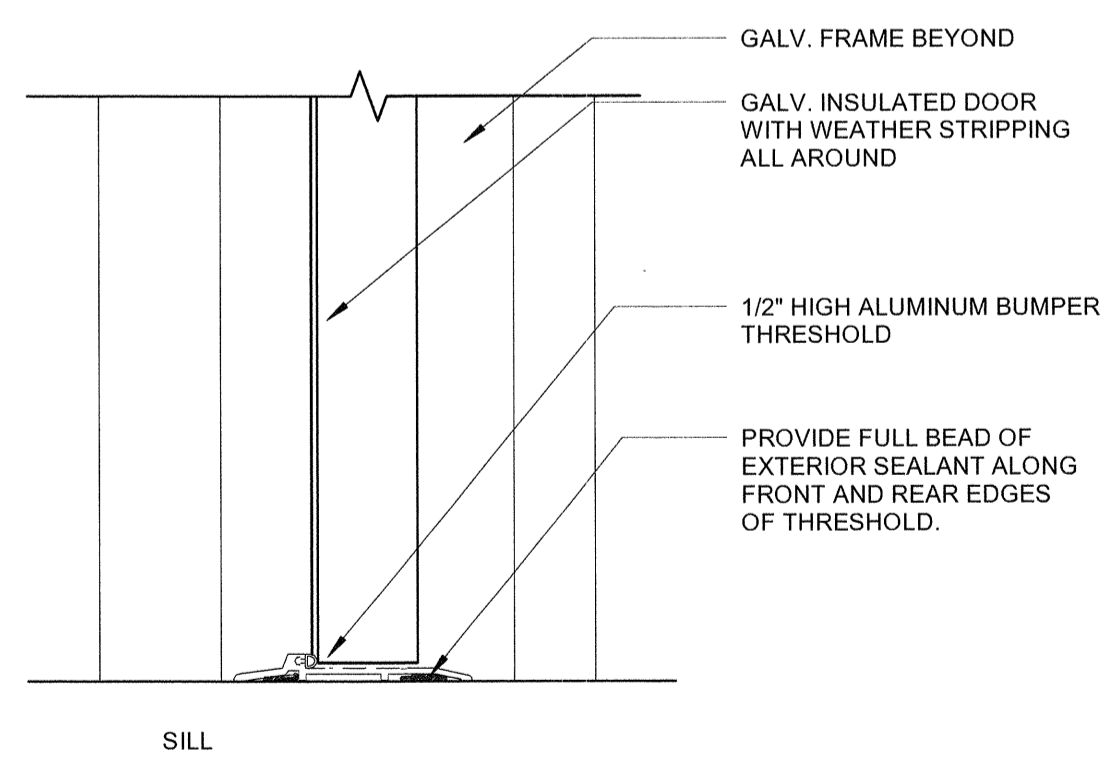
5 SIGNAGE



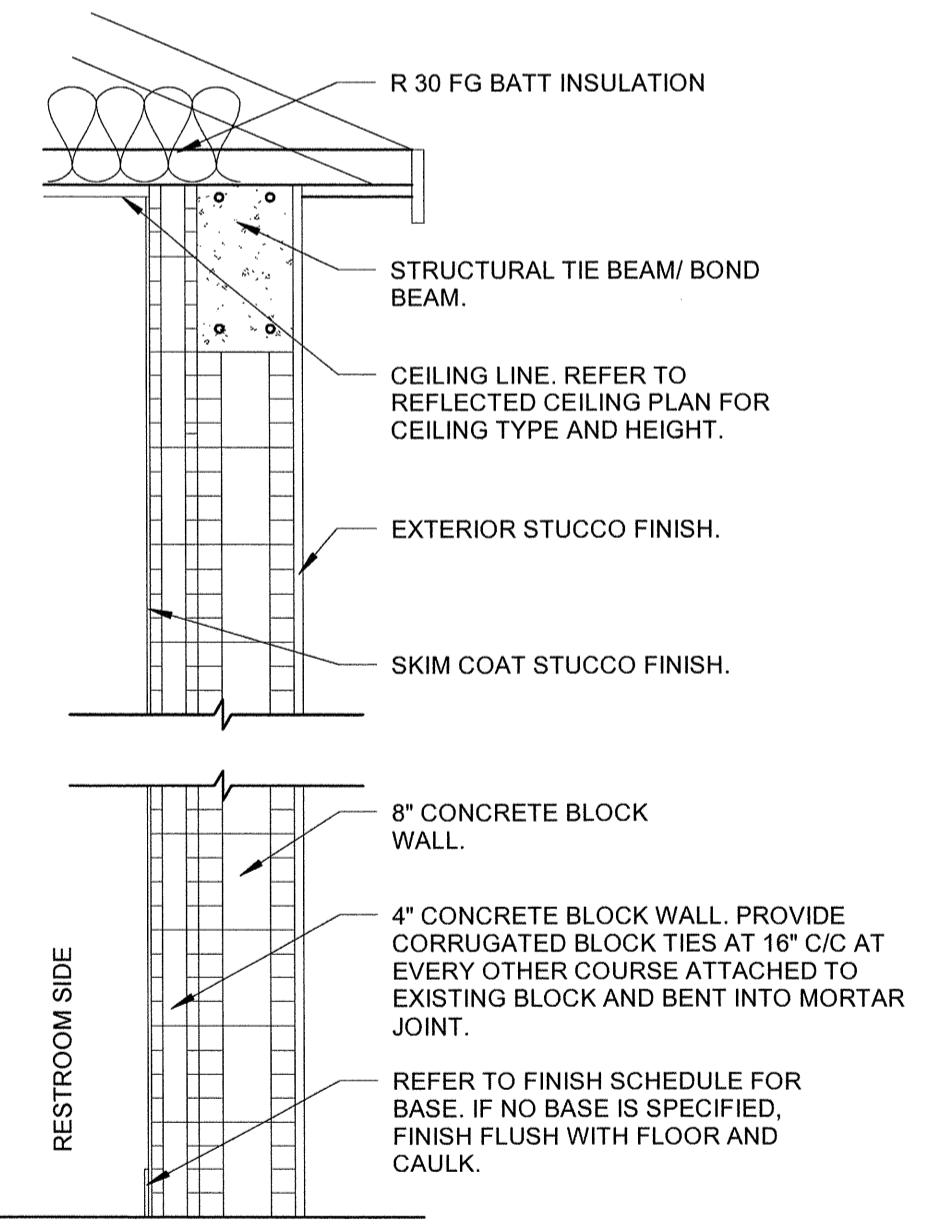
6 EXT. BLOCK WALL - JAMB



7 EXT. BLOCK WALL - HEAD



8 EXT. BLOCK WALL - SILL



1 INTERIOR 4" BLOCK WALL W/ 8" BLOCK WALL

9 WALL TYPES

**SPECIFIED BRAND NAMES ARE FOR DESCRIPTIVE PURPOSES ONLY. EQUAL EQUIPMENT OR MATERIAL WILL BE ACCEPTED. SEE CONTRACT MANUAL FOR MINIMUM REQUIREMENTS FOR ESTABLISHING EQUALITY**

**CHRIS P. ZIMMERMAN, A.I.A.**  
 REGISTERED ARCHITECT NO. 10,995  
 STATE OF FLORIDA

DATE: 11/06/16

**CPZ ARCHITECTS, INC.**  
 436 WEST BROWARD BOULEVARD  
 FORT LAUDERDALE, FL 33304  
 PHONE: (954) 797-8825 FAX: (954) 374-0559  
 AA 72606085 WWW.CPZARCHITECTS.COM

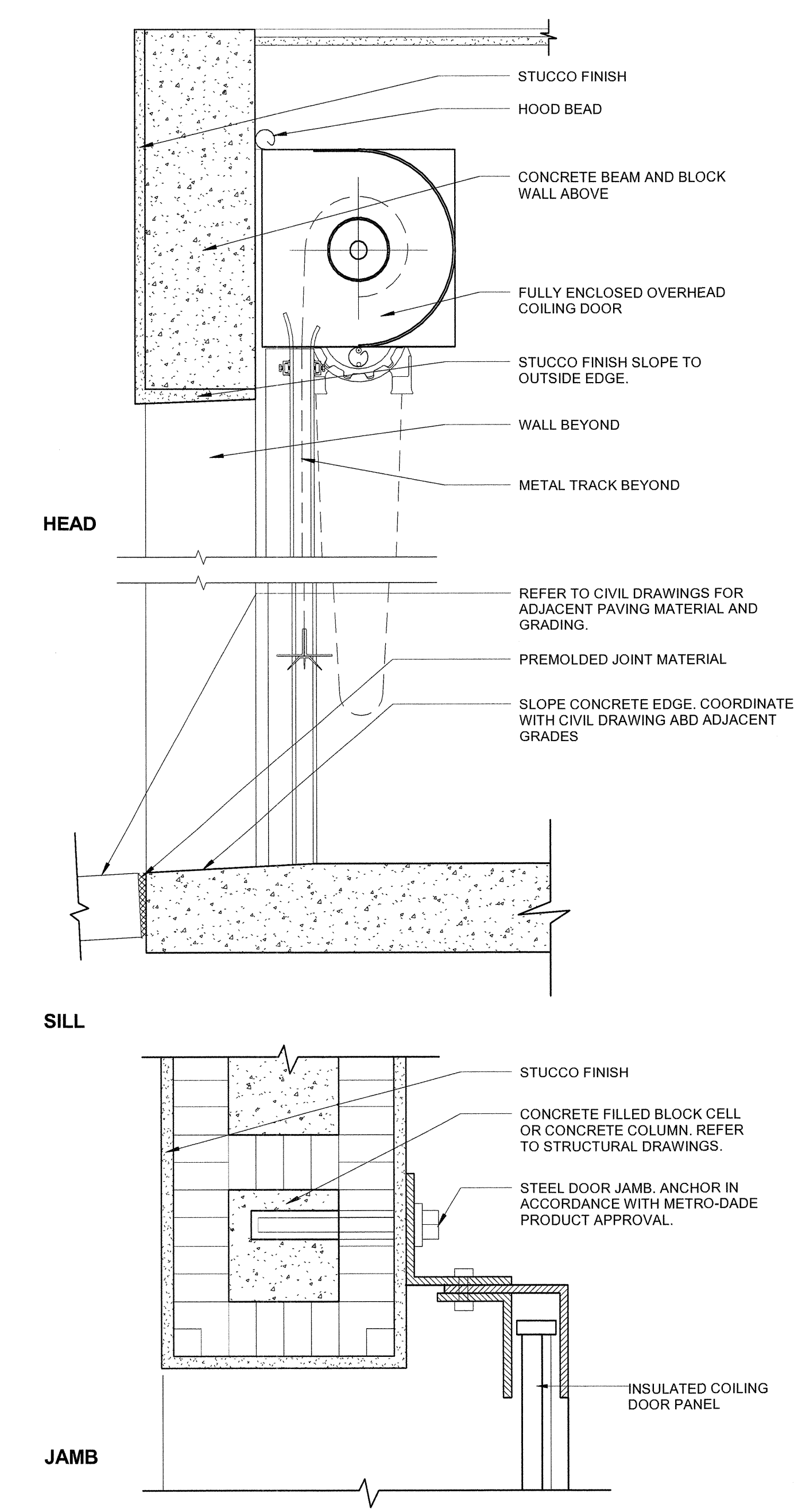
DRAWING TITLE: **DOOR SCHEDULE & DETAILS**

DRAWN: DL  
 CHECKED: CPZ  
 DATE: 11/06/16  
 SCALE: As indicated  
 PROJECT NO. 1533  
 SHEET: **A-5**

Z:\075\_Architect\075161\Project\Floor\15331\_Lake Park 07500505.dwg (11/06/16) 11:06:16 AM

NO.	REVISION	DATE
BID SET		07/31/16
RE-BID		11/06/16

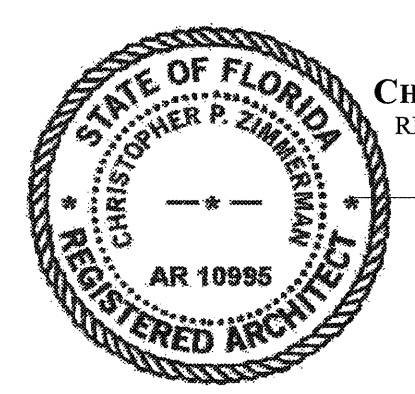
CONSULTANT:



1 **COIL TYPE GARAGE DOOR DETAIL**  
A-6 SCALE: 1/2" = 1'-0"

- OVERHEAD COILING DOORS:**
- 1. OVERHEAD DOORS SHALL BE MODEL 610 AS MANUFACTURED BY "OVERHEAD DOOR CO." OR ARCHITECT APPROVED EQUAL. DOORS SHALL HAVE MIAMI-DADE COUNTY PRODUCT APPROVAL FOR LARGE MISSILE IMPACT. NOTICE OF ACCEPTANCE #15-1228.03. CONTRACTOR SHALL SUBMIT FULLY DETAILED SHOP DRAWINGS WITH PRODUCT APPROVAL. SLATES TO BE MINIMUM 18 GAUGE.
  - 2. GENERAL CONTRACTOR SHALL COORDINATE THE INSTALLATION REQUIREMENTS AND ANCHORING DETAIL OF THE DOORS WITH THE CONCRETE COLUMNS, PRIOR TO POURING COLUMNS, TO ASSURE THAT THE REINFORCING STEEL IS CLEAR FROM THE AREA THAT IS REQUIRED FOR THE ANCHOR BOLTS OF THE DOOR SUPPORTS.
  - 3. DOORS SHALL BE MANUALLY CHAIN OPERATED, WITH PADLOCKABLE CHAIN KEEPER ON GUIDE, CHAIN HOIST OPERATOR TO HAVE ENDLESS STEEL CHAIN, CHAIN POCKET WHEEL GUARD, AND GEAR REDUCTION UNIT.
  - 4. DOORS AND ALL EXPOSED STEEL SHALL BE GALVANIZED, PHOSPHATE TREATED FOLLOWED WITH A BAKED-ON POLYESTER POWDER COAT FINISH (MINIMUM 2.5 MILS CURED FILM THICKNESS) TO MATCH TRIM COLOR SHOWN ON THE BUILDING ELEVATIONS.
  - 5. PROVIDE GALV. POWDER COATED STEEL HOOD WITH REINFORCED TOP AND BOTTOM EDGES WITH 1/4" THK STEEL INTERMEDIATE SUPPORT TO PREVENT EXCESSIVE SAG. PROVIDE 24 GAUGE OPERATOR AND BRACKET MECHANISM COVER.
  - 6. DOORS SHALL HAVE A FULL ONE YEAR WARRANTY, FULLY EXECUTED AND DATED STARTING ON THE DATE OF SUBSTANTIAL COMPLETION.
  - 7. INSTALL DOORS COMPLETE WITH ALL REQUIRED FASTENERS AND ACCESSORIES. UPON COMPLETION LUBRICATE, TEST AND ADJUST DOORS FOR EASE OF OPERATION, FREE FROM WARP, WIST OR DISTORTION.
  - 8. FINISH TO BE POWDER COATED, COLOR TO BE SELECTED BY OWNER. PROVIDE COAT COMPLETE COVER OVER COILING BAR.

**SPECIFIED BRAND NAMES ARE FOR DESCRIPTIVE PURPOSES ONLY. EQUAL EQUIPMENT OR MATERIAL WILL BE ACCEPTED. SEE CONTRACT MANUAL FOR MINIMUM REQUIREMENTS FOR ESTABLISHING EQUALITY**



**CHRIS P. ZIMMERMAN, A.I.A.**  
REGISTERED ARCHITECT NO. 10,995  
STATE OF FLORIDA  
DATE: 11/06/16



DRAWING TITLE:  
**DOOR DETAILS**

DRAWN: DL  
CHECKED: CPZ  
DATE: 11/06/16  
SCALE: As indicated  
PROJECT NO. 1533  
SHEET:

NO.	REVISION	DATE
BID-BE1		7/11/2016
RE-BID		11/06/2016

**GENERAL NOTES:**

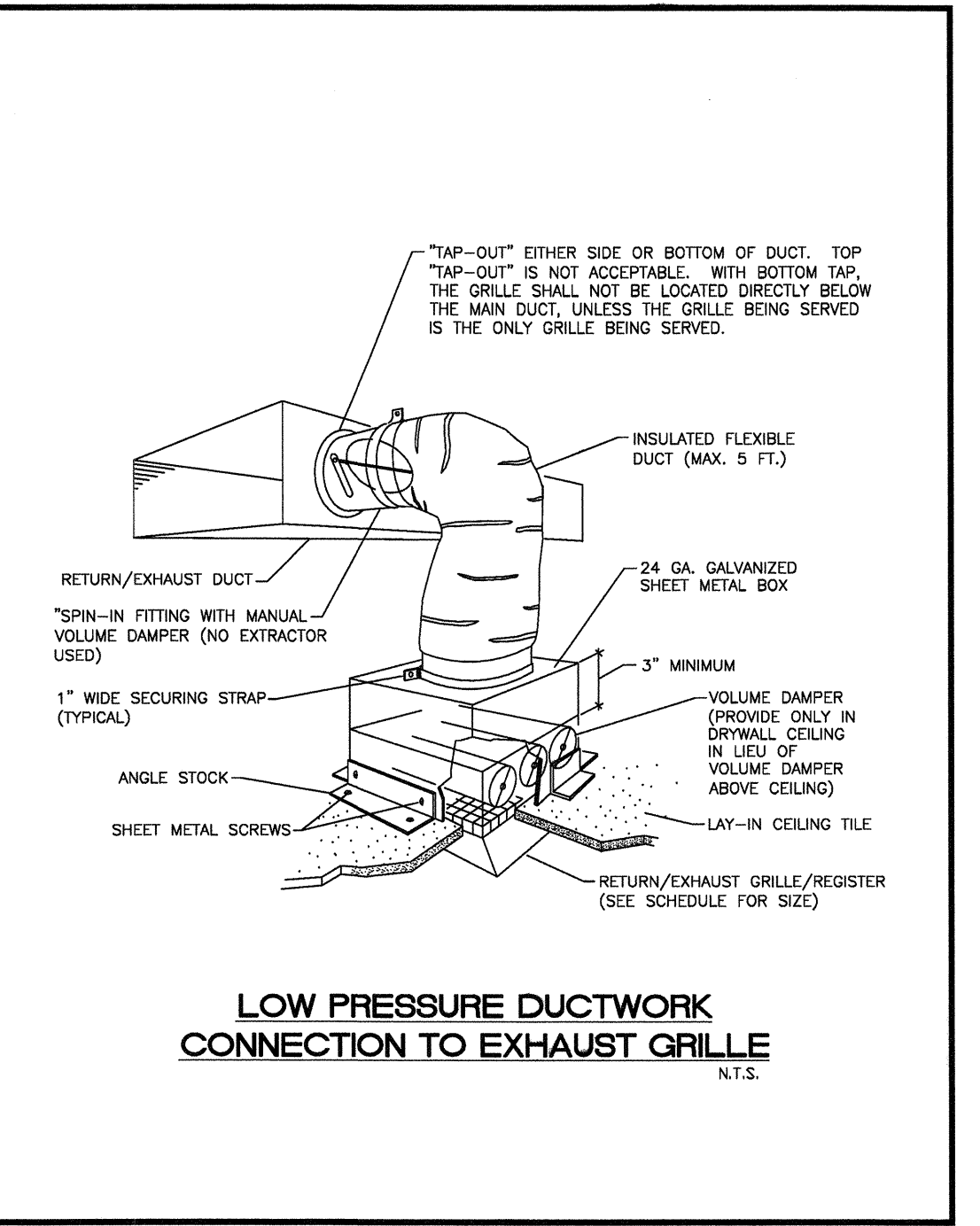
- ALL MECHANICAL SYSTEMS ARE TO BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE NFPA STANDARDS, AND STANDARDS, THE LOCAL BUILDING CODE, NOISE & HEIGHT ORDINANCES, PLANS AND SPECIFICATIONS.
- ALL MATERIALS SHALL BE NEW AND ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, PRODUCT APPROVAL RULES AND ORDINANCES. ANY DAMAGED EQUIPMENT SHALL BE REPLACED OR RESTORED TO ORIGINAL CONDITION.
- THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, ACCESS PANELS, CONTROL SYSTEMS, DEVICES, PERMITS AND SERVICES NECESSARY FOR FURNISHING AND INSTALLING A COMPLETE OPERABLE MECHANICAL SYSTEM.
- ALL LOUVERS, GRILLES, PIPING, ETC. SHALL BE PAINTED TO MATCH SURROUNDING COLOR AND TEXTURES AS REQUIRED BY ARCHITECT. VERIFY COLOR AND TEXTURE WITH ARCHITECT. PAINT ALL EXPOSED MECHANICAL EQUIPMENT WITH BENJAMIN MOORE EPOXY ENAMEL 1B2.
- ALL CUTTING, PATCHING, STRUCTURAL STEEL, WEATHER PROOFING, PAINTING, AND WALL OPENINGS SHALL BE BY THE GENERAL CONTRACTOR.
- ALL OPENINGS IN BUILDING STRUCTURE FOR DUCTWORK, PIPING, ETC. TO BE 1/2" LARGER (ON ALL SIDES) THEN THE OUTSIDE DIMENSIONS. FILL JOGS WITH FIRE RETARDANT SILICONE FOAM (I.E. CHASE-FOAM CTC PR-855 BY CHASE TECHNOLOGY CORP.).
- PROVIDE FLEXIBLE DUCT CONNECTORS, RATED AS REQUIRED, TO ALL FANS, A/C UNITS, OR MECHANICAL EQUIPMENT.
- PROVIDE MAINTENANCE AND OPERATION MANUAL ON ALL MECHANICAL EQUIPMENT OR SYSTEMS. PROVIDE 5 SETS OF SUBMITTALS ON ALL HVAC EQUIPMENT. SUBMITTALS SHALL HAVE A SUMMARY SHEET SHOWING ALL SCHEDULED INFORMATION.
- HVAC CONTRACTOR WILL WARRANT ALL MECHANICAL SYSTEMS, DUCTWORK, THERMOSTATS, AND ALL OTHER EQUIPMENT PARTS AND LABOR UNDER THESE DRAWINGS AND SPECIFICATIONS FOR A PERIOD OF ONE (1) YEAR AFTER THE COMPLETION OF THE PROJECT. ANY REPAIRS REQUIRING SYSTEM SHUT DOWN WILL BE DONE DURING NON OPERATIONAL PERIODS. HVAC CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES PRIOR TO BIDDING AND PURCHASING ANY EQUIPMENT.
- AIR QUALITY SHOULD BE TESTED BEFORE OCCUPANCY AND SHOULD BE INSTRUMENTED AND MONITORED THEREAFTER, OR AT LEAST AT REGULAR INTERVALS.

**MECHANICAL EQUIPMENT NOTES:**

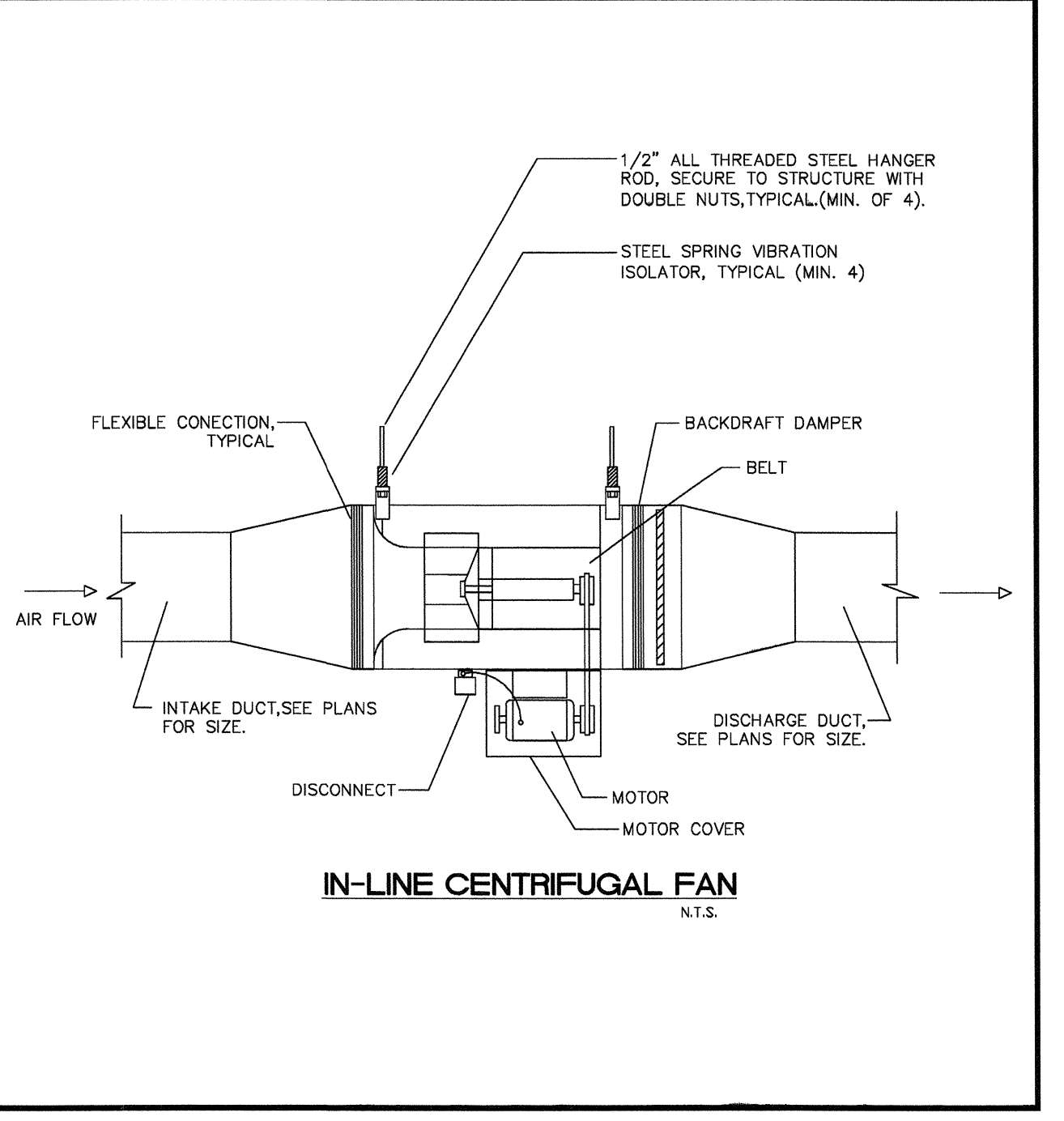
- ALL MECHANICAL EQUIPMENT SHALL BE ARI & ILL LISTED WHERE APPLICABLE AND RATED FOR THE REQUIRED SERVICE, PRESSURES, TEMPERATURES, AND SHALL BE PROVIDED WITH ALL NECESSARY TRANSFORMERS, SEALS, VALVES, CONNECTIONS, ETC. TO FUNCTION PROPERLY.
- PROVIDE BACKDRAFT DAMPERS ON ALL EXHAUST FANS AND/OR INLINE FANS.
- PROVIDE VIBRATION ISOLATORS ON ALL MECHANICAL EQUIPMENT AS CALLED FOR IN THE SPECIFICATIONS. IF NOT SPECIFIED, AS RECOMMENDED BY MANUFACTURER FOR QUIET OPERATION (WITH 90% ISOLATION EFFICIENCY).
- PROVIDE A MIN. OF 10" CLEARANCE BETWEEN O/A INTAKES AND VIR OR EXHAUST OPENINGS.
- INDEPENDENT CONTRACTOR SHALL TEST AND BALANCE ALL MECHANICAL EQUIPMENT AIR DEVICES, EXTRACTORS, DAMPERS, AHU'S & FAN RATES, ETC. TO PROVIDE THE DESIGN QUANTITIES AS SHOWN ON THE PLANS OR SCHEDULES. PROVIDE T & B REPORT IN ACCORDANCE WITH THE AIR BALANCE COUNCIL STANDARDS, SIGNED AND SEALED BY A REGISTERED FLORIDA ENGINEER. PROVIDE FINAL BALANCING FOR ALL SYSTEMS TO SATISFACTION OF OWNER AND ENGINEER. T & B CONTRACTOR SHALL VISIT JOB SITE DURING CONSTRUCTION TO ENSURE THAT ALL DUCTS, DAMPERS, ETC. ARE INSTALLED FOR PROPER AND QUIET AIR DELIVERY.
- MOUNT ALL ROOFTOP EQUIPMENT FOR WIND LOADS AND MOUNTING HEIGHTS AS REQUIRED BY LOCAL CODES, ALL CURBS SHALL EXTEND 6" MIN. ABOVE FINISHED ROOF.
- ALL PIPING AND DUCTWORK SHALL BE SLEEVED THRU WALLS, BEAMS, SLABS, ETC. AS REQUIRED AND COORDINATED WITH THE STRUCTURAL ENGINEER. REWORK BAR JOIST CROSS BRACING AND PROVIDE NECESSARY TRANSITIONS AS REQUIRED FOR DUCTWORK INSTALLATION.
- ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/50.
- PROVIDE MOTOR STARTERS AS FOLLOWS (UNLESS OTHERWISE RECOMMENDED BY MOTOR MANUFACTURER):
  - PROVIDE OVERLOAD PROTECTION - 1/3 HP AND ABOVE (ALL PHASES).
  - PROVIDE ACROSS THE LINE VOLTAGE STARTING BELOW 25 HP.
- ALL OUTDOOR EQUIPMENT SHALL COMPLY WITH LOCAL ZONING NOISE ORDINANCES. MIN. REQUIREMENTS SHALL NOT EXCEED A NOISE LEVEL OF 65 DB AS MEASURED RADIALLY 30 FT FROM THE EQUIPMENT IN ALL DIRECTIONS.

**AIR DISTRIBUTION / DUCTWORK NOTES :**

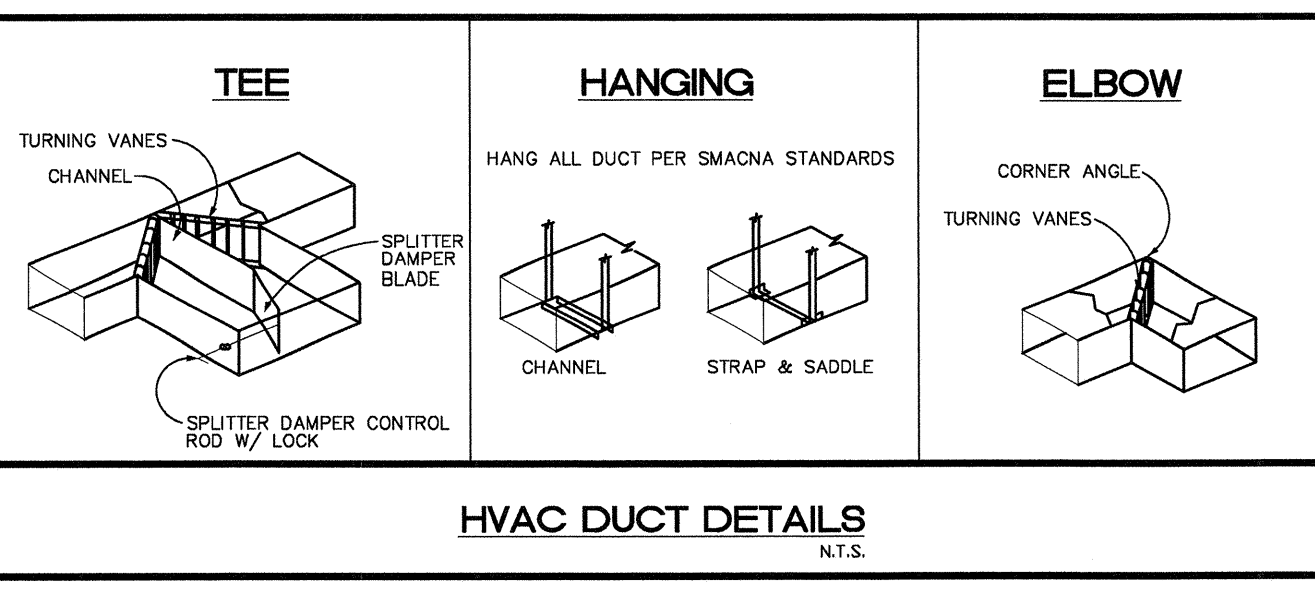
- REFER TO ARCHITECTURAL PLANS FOR CEILING TYPE.
- PROVIDE OFF WHITE FINISH (SUBJECT TO ARCHITECT'S APPROVAL).
- ALL DUCTWORK WHERE ALLOWED BY LOCAL CODES AND AND CEILING RATING SHALL BE "L" LOW PRESSURE DUCT, SEAL CLASS "0" AND AS FOLLOWS:
  - S/A & R/A - 1-1/2" THICK FIBERGLASS DUCT BOARD WITH VAPOR BARRIER (R-6 MIN.).
  - EXHAUST AIR DUCTWORK - GALVANIZED SHEETMETAL.
  - OUTSIDE AIR DUCTWORK - INSULATED GALVANIZED SHEETMETAL.
- ALL DUCTWORK AND DIFFUSERS SHALL BE RATED FOR THE USE, PRESSURE AND TEMPERATURE SPECIFIED AND AS REQUIRED BY THE CEILING SYSTEM RATING.
- ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH "SMACNA" STANDARDS AND LOCAL BUILDING CODES.
- ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
- SEAL ALL DUCTS, JOINTS AND SEAMS IN AN APPROVED MANNER AND INSURE AGAINST LEAKAGE.
- PROVIDE ACCESS DOORS AS REQUIRED FOR ALL MECHANICAL EQUIPMENT TO SERVICE AND VISUALLY CHECK ROTATION OF FANS AND MOTORS, POSITION OF DAMPERS, REPLACE FIRE DAMPER LINKS, ADJUST OR REPLACE CONTROLS, ETC.
- PROVIDE VANE ELBOWS IN ALL CASES. SPLITTER DAMPERS WHERE INDICATED ON DRAWINGS AND VOLUME CONTROL DAMPERS IN ALL BRANCH DUCTS OR DIFFUSER CONNECTIONS.



**LOW PRESSURE DUCTWORK CONNECTION TO EXHAUST GRILLE**  
N.T.S.



**IN-LINE CENTRIFUGAL FAN**  
N.T.S.



EXHAUST FAN SCHEDULE													
DESIG.	SERVES	CFM	EXT. S.P.	FAN DATA			ELECTRICAL MOTOR DATA				WEIGHT (LBS)	MANUF./MODEL	NOTES
				TYPE	RPM	DRIVE	H.P.	RPM	VOLT/PH/HZ	STARTER			
EF-LP-1	TOILET ROOMS	1000	0.5	CENT. IN-LINE	1513	DIRECT	1/4	1725	120/1/60	HOA	56	GREENHECK/SQ-100-VG	ALL
PRODUCTS SPECIFIED ARE BASIS OF DESIGN OR APPROVED. EQUALS WILL BE REVIEWED.													

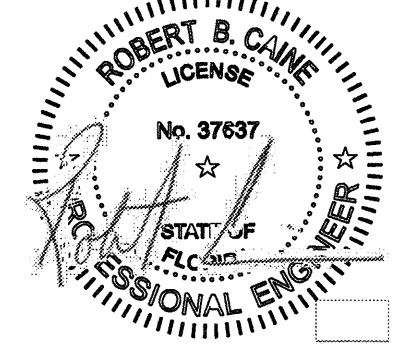
- NOTES:**
- BACK DRAFT DAMPER.
  - PROVIDE WITH INTEGRAL STARTER & DISCONNECT SWITCH.
  - INTERLOCK FAN WITH MOTORIZED ROLL UP DOOR.

AIR DEVICE SCHEDULE							
DESIG.	SIZE	OBD	FINISH	THROW	NECK SIZE	MANUFACTURER/MODEL NO.	REMARKS/NOTES
E1	12"x12"	YES	WHITE	N/A	Ø	TITUS/50F	CEILING EXHAUST AIR GRILLE ① ② ③

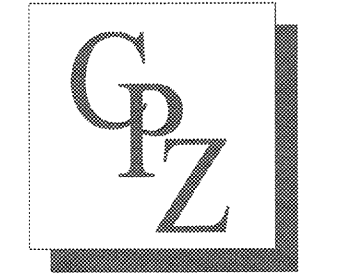
- NOTES:**
- 8" 0-100 CFM
  - 10" 101-225 CFM
  - 12" 226-400 CFM
  - 14" 401-600 CFM
  - 16" 601-900 CFM
  - CONTRACTOR TO COORDINATE FRAME STYLE W/ ARCH. PLANS.
  - PROVIDE PFS FRAME FOR MOUNTING OF LAY-IN GRILLE FOR PLASTER EXISTING CEILING.
  - RUN OUTS SHALL BE THE SAME SIZE AS NECK SIZE OF AIR DEVICE U.N.O.
  - ALUMINUM BORDER AND CORE.

DWG. NO.	DRAWING DESCRIPTION
M-0	DETAILS, SCHEDULES & GEN. NOTES
M-1	BUILDING PLAN

SPECIFIED BRAND NAMES ARE FOR DESCRIPTIVE PURPOSES ONLY. EQUAL EQUIPMENT OR MATERIAL WILL BE ACCEPTED. SEE CONTRACT MANUAL FOR MINIMUM REQUIREMENTS FOR ESTABLISHING EQUALITY



CPZ ARCHITECTS, INC. LAKE SHORE PARK RESTROOM FACILITY  
 LAKE SHORE DR  
 LAKE PARK, FL.



**DRAWING TITLE:**  
MECH. DETAILS, SCHEDULES & GEN. NOTES

DRAWN: Author  
 CHECKED: Checker  
 DATE: 4/11/2016  
 PROJECT NO. 1533  
 SHEET:

M-0



ELECTRICAL DRAWING NOTES

- ALL WORK PERFORMED SHALL BE DONE BY A LICENSED ELECTRICAL CONTRACTOR AND IN A FIRST CLASS WORKMANLIKE MANNER. SAID CONTRACTOR SHALL MEET ALL REQUIREMENTS SET FORTH BY ANY LOCAL ORDINANCE AND/OR GOVERNING AUTHORITIES.
- ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (2014 5TH EDITION), NATIONAL ELECTRIC CODE (2011), NFPA 72 (2010), FFPC (2010), AND ANY AND ALL OTHER ORDINANCES HAVING JURISDICTION.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS, AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK SHOWN AND/OR NOTED ON THE DRAWINGS AND SPECIFICATIONS.
- ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS AND COUNTS AS SHOWN AND/OR NOTED ON THE DRAWINGS. THIS SHALL INCLUDE ANY AND ALL FABRICATIONS REQUIRED PRIOR TO INSTALLATION.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR THE ADVANCED ORDERING OF LONG LEAD ITEMS SO AS NOT TO INTERFERE WITH THE PRODUCTION OF OTHER TRADES RESULTING IN ANY DOWN OR LAG TIME.
- CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) YEAR FROM DATE OF ACCEPTANCE, UNLESS INDICATED OR SPECIFIED OTHERWISE.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR TO ORIGINAL CONDITIONS ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT AND FURNISHINGS CAUSED DURING PERFORMANCE OF WORK.
- ELECTRICAL CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT UNLESS NOTED OTHERWISE.
- ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC. SHALL BE LISTED FOR THE INTENDED USE WITH UNDERWRITER'S LABORATORIES, INC. (UL) WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL. AS A MINIMUM, ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS FOR THE TYPE OF EQUIPMENT AND INTENDED USE OF THE FOLLOWING:  
 A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).  
 B. ILLUMINATING ENGINEERS SOCIETY (IES).  
 C. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).  
 D. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).  
 NOTE: THESE STANDARDS ARE SUBORDINATE TO CODES AND STANDARDS SET BY UL.
- IT IS NOT THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL BE EXPECTED TO PROVIDE ALL ITEMS AND EQUIPMENT NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
- ALL CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT ROUTING SHALL BE DETERMINED IN THE FIELD, UNLESS OTHERWISE NOTED. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL THE PROPER NUMBER OF CONDUCTORS IN ALL RACEWAYS AS REQUIRED TO ACCOMPLISH THE PROPER FUNCTIONING OF THE DEVICE OR EQUIPMENT AS SHOWN.
- THE ELECTRICAL CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK IS BEING PERFORMED, FREE FROM DEBRIS AT ALL TIMES AND SAID AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.
- CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTING.
- ARCHITECTURAL AND/OR ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THAT CONTRACTOR.
- COORDINATE ALL ELECTRICAL SITE WORK WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- ALL CONDUCTORS SHALL BE IN CONDUITS. ALL CONDUITS SHALL BE INTERMEDIATE (IMC) OR RIGID GALVANIZED STEEL (RGS) EXCEPT THAT: (g) POLYVINYL CHLORIDE (PVC) CONDUITS MAY BE USED IN CONCRETE SLABS AND UNDERGROUND PROVIDED ELBOWS AND RISERS ARE RGS; (d) ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN OR ON WALLS OR CEILING WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DAMP CONDITIONS OR CORROSIVE CONDITIONS; (e) LIQUID-TIGHT FLEXIBLE CONDUIT WHERE REQUIRED; (f) FLEXIBLE METALLIC CONDUIT WHERE REQUIRED IN DRY LOCATIONS; (g) THE USE OF AC OR MC CABLES SHALL BE PROHIBITED. ALL CONDUITS IN HAZARDOUS AREAS (PER NEC) SHALL MEET THE REQUIREMENTS OF NEC CHAPTER 5.
- FOR UNDERGROUND ELECTRICAL CONDUITS, PROVIDE PULL BOXES, SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF 360. PULL BOXES SHALL BE SUITABLE AND APPROVED FOR THE INTENDED USE. WHERE CONDUIT PASSES UNDERNEATH PAVED AREAS THEY SHALL BE RGS. WHERE UNDERGROUND CONDUITS ARE NOT EXPOSED TO MECHANICAL DAMAGE OR ARE NOT UNDER PAVED AREAS, THEY MAY BE SCHEDULE 40 PVC, BUT ALL CONDUIT RISERS SHALL BE RGS. RGS CONDUITS SHALL EXTEND A MINIMUM OF 18" BELOW GRADE.
- APPLY BITUMASTIC COATING TO ALL METALLIC CONDUITS IN SLABS OR UNDERGROUND.
- ALL CONDUCTORS SHALL BE COPPER U.O.N. TYPE THHN OR THWN INSULATION, RATED 75°C WET DRY EXCEPT WHERE OTHERWISE REQUIRED BY U.L. OR CODES UNLESS OTHERWISE NOTED. MINIMUM WIRE SIZE SHALL BE #12 AWG EXCLUDING CONTROL WIRING.
- WIRE WAYS SHALL BE SIZED AS REQUIRED, PER NEC, UNLESS OTHERWISE NOTED.
- ALL ELECTRICAL EQUIPMENT SHALL BE RAIN TIGHT WHERE EXPOSED TO THE WEATHER. ALL FLEX CONDUITS CONNECTED TO SUCH EQUIPMENT SHALL BE LIQUID-TIGHT.
- CIRCUIT BREAKERS SHALL BE BOLT-ON U.O.I., INVERSE TIME-TYPE (THERMAL-MAGNETIC). TWO AND THREE-POLE CIRCUIT BREAKERS SHALL HAVE COMMON TRIP. ALL PANELBOARDS SHALL HAVE COPPER BUS.
- WHERE CORE DRILLING OF FLOOR/WALLS IS REQUIRED, CONTRACTOR SHALL SEAL OPENINGS WATERTIGHT AFTER UTILITIES HAVE BEEN INSTALLED. LOCATION OF CORED HOLES SHALL BE COORDINATED WITH LOCATION OF EQUIPMENT IN A MANNER TO BE CLEAN AND FUNCTIONAL. THE CONTRACTOR SHALL INSTALL ONLY ONE CONDUIT PER HOLE AND SEAL THE OPENING AROUND THE CONDUIT AS SPECIFIED.
- PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS AND STRUCTURAL SLABS. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY, PRIOR TO SUBMITTING BID, LOCATIONS OF ALL SUCH FIRE RATED PARTITIONS, WALLS, AND STRUCTURAL SLABS.
- BALLASTS SHALL HAVE MIN. POWER FACTOR OF 0.90. BALLASTS FOR METAL HALIDE AND HIGH PRESSURE SODIUM FIXTURES SHALL BE CONSTANT WATTAGE TYPE WITH 5% LAMP WATTS FOR 10% NOMINAL LINE VOLTAGE VARIATION.
- THE EQUIPMENT GROUNDING TERMINAL BARS OF THE NORMAL AND EMERGENCY ELECTRICAL SYSTEM PANELBOARDS SERVING THE SAME BUILDING SHALL BE BONDED TOGETHER WITH AN INSULATED, CONTINUOUS, COPPER CONDUCTOR NOT SMALLER THAN NUMBER 6.
- PROVIDE LAMPS WITH FIXTURES, SEE LUMINAIRE SCHEDULE FOR LAMP TYPE.
- ALL CONNECTIONS TO GROUND RODS & BUILDING STEEL SHALL BE MADE WITH UL APPROVED WELDED CONNECTIONS, UNLESS OTHERWISE NOTED.
- PROVIDE A FUSE HOLDER AND FUSE IN THE PRIMARY SIDE OF EACH UNGROUNDED CONDUCTOR FOR EACH BALLAST (BUSSMAN HEB AND ENG OR EQUAL) AT THE HAND HOLE OF EACH EXTERIOR POLE MOUNTED LIGHTING FIXTURE OR J-BOX FOR WALL OR GROUND MOUNTED EXTERIOR FIXTURES.
- PROVIDE TEMPORARY ELECTRICAL SERVICE FOR USE BY ALL TRADES DURING CONSTRUCTION AND REMOVE SAME AT COMPLETION OF PROJECT.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH A COMPLETE SET OF AS-BUILT DRAWINGS, SHOWING ALL CHANGES AND DEVIATIONS TO THE ARCHITECT/ENGINEER PRIOR TO COMPLETION OF THE PROJECT.
- PREPARE AND AFFIX A TYPED DIRECTORY TO THE INSIDE COVER OF EACH PANELBOARD INDICATING LOADS SERVED BY EACH CIRCUIT.

ELECTRICAL SYMBOLS LEGEND

NOT ALL SYMBOLS SHOWN ARE FOR THIS PROJECT

- 1X4 SURFACE FIXTURE
- 1X4 SURFACE EMERGENCY FIXTURE
- FLOOD LIGHT
- EMERGENCY BATTERY WALL MOUNTED LIGHT FIXTURE
- CEILING OR WALL MOUNTED EXIT SIGNS, CHEVRONS & SHADED AREA DETERMINES THE DIRECTION
- CONTROL SWITCH  
DM = DIMMER  
3 = 3-WAY  
LV = LOW VOLTAGE
- WALL MOUNTED OCCUPANCY SENSOR/SWITCH
- CEILING MOUNTED OCCUPANCY SENSOR

ELECTRICAL SYMBOLS LEGEND: POWER

- MOTOR
- MOTOR WITH DISCONNECT
- DISCONNECT
- WALL MOUNTED CAPPED OUTLET BOX OR JUNCTION BOX
- DUPLEX RECEPTACLE
- QUADRAPLEX RECEPTACLE
- PANELBOARD

ELECTRICAL SYMBOLS LEGEND: SYSTEMS

- TELEPHONE/DATA OUTLET  
PROVIDE & INSTALL 3/4" EMPTY CONDUIT W/PULLSTRING
- CATV OUTLET

ELECTRICAL SYMBOLS LEGEND: OTHER

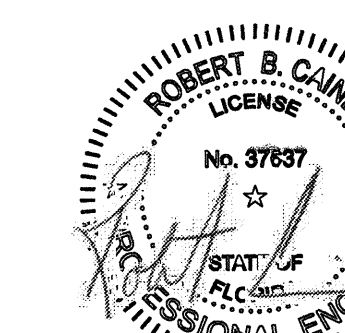
- LABEL OR PANEL-CIRCUIT
- LABEL OR KEYED NOTE
- EXISTING TO REMAIN LINETYPE
- EXISTING TO BE REMOVED (DEMO) LINETYPE
- EXISTING TO BE RELOCATED LINETYPE
- NEW LINETYPE

ELECTRICAL SYMBOLS LEGEND: ABBREVIATIONS

- A ABOVE COUNTER
- AG ABOVE COUNTER & GFI
- A.F.F. ABOVE FINISHED FLOOR
- B.F.C. BELOW FINISHED CEILING
- B.F.G. BELOW FINISHED GRADE
- CL CENTER LINE
- ECB ENCLOSED CIRCUIT BREAKER
- EM/E EMERGENCY
- ER EXISTING DEVICE TO REMAIN
- ERL EXISTING DEVICE RELOCATED
- G GROUND FAULT INTERRUPTER
- IG ISOLATED GROUND
- M.H. MOUNTING HEIGHT
- N NEW DEVICE
- NL NIGHT LIGHT
- T.C. TERMINAL CABINET
- T.S. TIME SWITCH
- U.O.N. UNLESS OTHERWISE NOTED
- WP. WEATHER PROOF
- XFMR. TRANSFORMER

DWG. NO.	DRAWING DESCRIPTION
E-0	LEGEND & GEN. NOTES
E-1	BUILDING PLAN

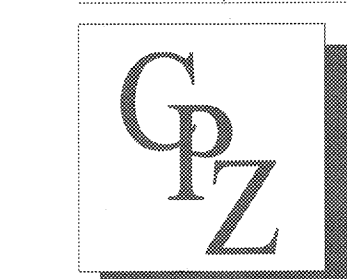
SPECIFIED BRAND NAMES ARE FOR DESCRIPTIVE PURPOSES ONLY. EQUAL EQUIPMENT OR MATERIAL WILL BE ACCEPTED. SEE CONTRACT MANUAL FOR MINIMUM REQUIREMENTS FOR ESTABLISHING EQUALITY



NO.	REVISION	DATE
BID SET		7/31/2016
REV. 01		11/06/2016

CONSULTANT:

CPZ ARCHITECTS, INC. LAKE SHORE PARK RESTROOM FACILITY  
 LAKE SHORE DR  
 LAKE PARK, FL.



DRAWING TITLE:  
**ELECTRICAL LEGEND & GEN. NOTES**  
 DRAWN: Author  
 CHECKED: Checker  
 DATE: 4/11/2016  
 PROJECT NO. 1533  
 SHEET:

E-0

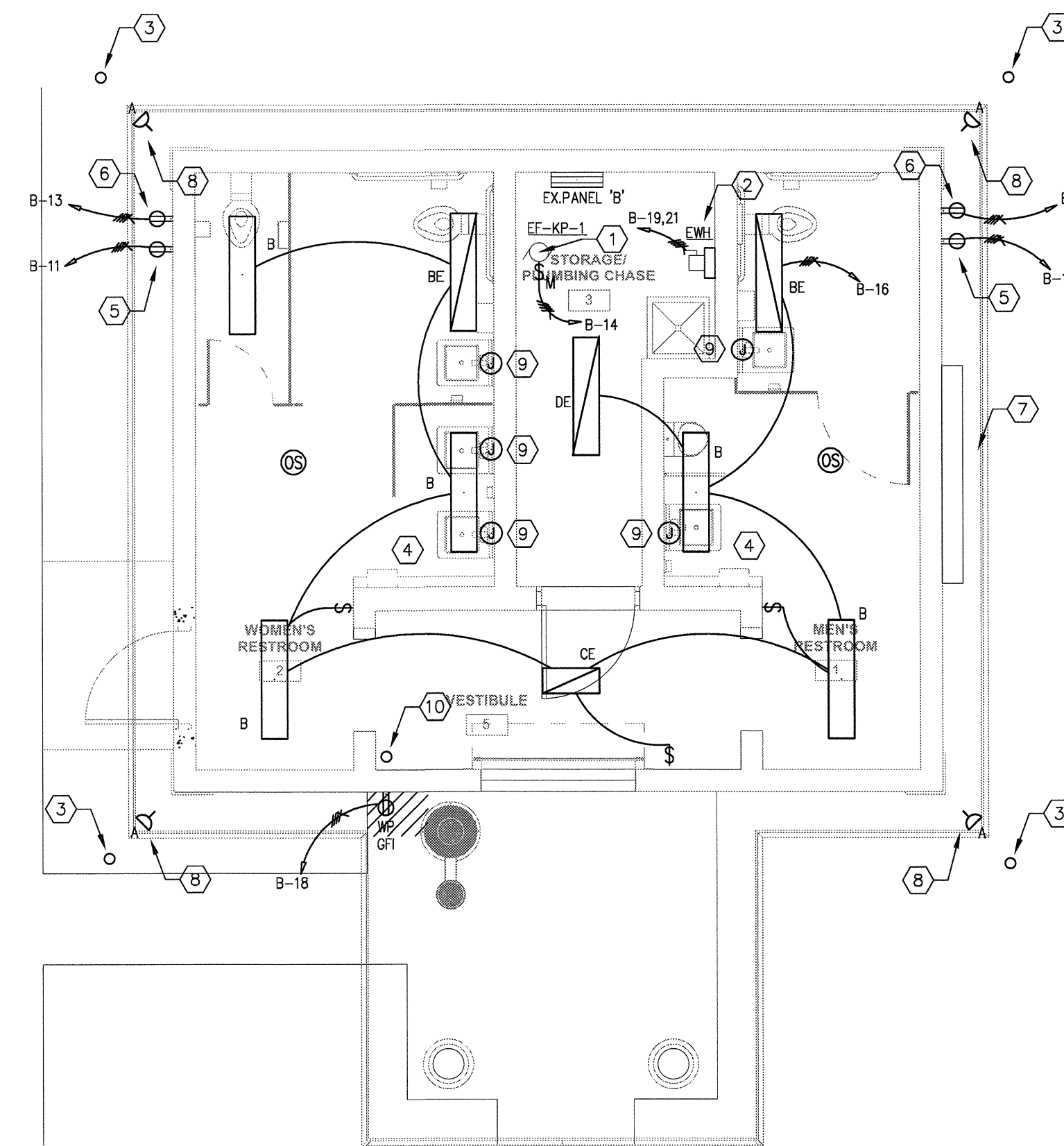
Z:\C02\_Architectural\2017\Projects\Restroom\Drawings\CPZ\Programs\MECHANICAL\SPRINKLER\1533\_LakeShorePark\_RR.dwg  
 11/28/2016 8:17:23 PM

LAKE SHORE PARK RESTROOM						
LIGHTING FIXTURE SCHEDULE						
TYPE	DESCRIPTION	MFR	CATALOG NUMBER	VOLTS	LAMPS	REMARKS
A	FLOODLIGHT	LUMARK	NFFLD-E-UNV-66-T-CB-PER	UNV	LED/4K	SURFACE
B	4' LED VAPOR PROOF/VANDAL	NEWSTAR	VIC4W-L3-35-1-RW-UN-WH-E1	UNV	LED/3K	SURFACE
BE	4' LED VAPOR PROOF/VANDAL	NEWSTAR	VIC4W-L3-35-1-RW-UN-WH-E1-EML	UNV	LED/3K	EMERGENCY LED BALLAST
C	2' LED VAPOR PROOF/VANDAL	NEWSTAR	VIC2W-L3-35-1-RW-UN-WH-E1	UNV	LED/3K	SURFACE
CE	2' LED VAPOR PROOF/VANDAL	NEWSTAR	VIC2W-L3-35-1-RW-UN-WH-E1-EML	UNV	LED/3K	EMERGENCY LED BALLAST
D	4' LED VAPOR PROOF	METALUX	4VT2-LD4-8-DR-UNV-L835-CD1-U	UNV	LED/3K	SURFACE
DE	4' LED VAPOR PROOF	METALUX	4VT2-LD4-8-DR-UNV-L835-CD1-U-EL	UNV	LED/3K	EMERGENCY LED BALLAST
OCC	RESTROOMS	COOPER CONTROLS	OAC-U-2000/SP20-MV	UNV		SURFACE
EX	VANDAL RESISTANT LED EXIT	ISOLITE	UX7000X0XX(1)VRSD	UNV	LED	SURFACE

**Lighting fixture schedule notes:**

Note 1: No substitutions will be accepted without prior approval

For Questions pertaining to this fixture schedule Call Patty Rossiello @ Lighting Dynamics: 561-662-4233 / prossiello@lightingdynamics.com



1 BUILDING PLAN - ELECTRICAL  
E-1 SCALE: 1/4" = 1'-0"

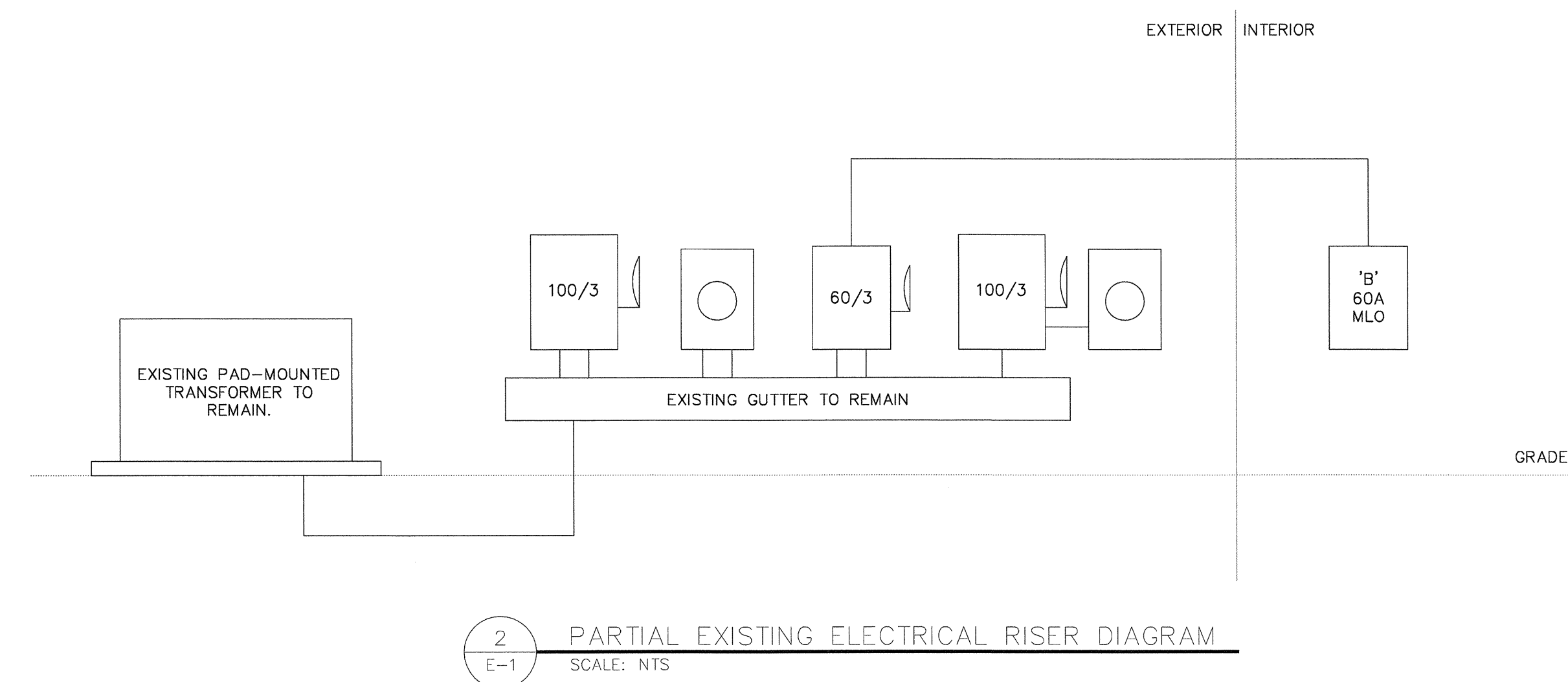
- ELECTRICAL GENERAL NOTES:**
- CONNECT EMERGENCY LIGHTS AND EXIT SIGNS AHEAD OF LOCAL SWITCH AS REQUIRED.
  - ALL EXISTING CONVENIENCE OUTLETS NOT SHOWN ON THIS PLAN ARE EXISTING TO REMAIN.

- ELECTRICAL KEYED NOTES: (#)**
- CONNECT EXHAUST FAN AS REQUIRED. COORDINATE W/ MECHANICAL.
  - CONNECT ELECTRIC WATER HEATER AS REQUIRED. COORDINATE W/ PLUMBING.
  - STUB 1-1" C. TO THIS LOCATION FOR FUTURE SECURITY CAMERA CONNECTION. TERMINATE IN N.W. CORNER OF STORAGE ROOM. VERIFY EXACT REQUIREMENTS W/ EQUIPMENT SUPPLIER PRIOR TO BEGINNING WORK.
  - IT IS NOTED THERE IS AN EXISTING ELECTRIC HAND DRYER IN THIS AREA. CONTRACTOR SHALL REPLACE EXISTING SURFACE MOUNTED CONDUIT AND INSTALL NEW.
  - INSTALL NEMA L5-20 GFCI RECEPTACLE RECESSED IN WALL AS REQUIRED. PROVIDE WEATHERPROOF COVER. VERIFY FINAL LOCATION W/ CITY PRIOR TO BEGINNING WORK.
  - INSTALL NEMA L5-30 GFCI RECEPTACLE RECESSED IN WALL AS REQUIRED. PROVIDE WEATHERPROOF COVER. VERIFY FINAL LOCATION W/ CITY PRIOR TO BEGINNING WORK.
  - EXISTING ELECTRICAL GUTTER TO REMAIN. REFER TO RISER DIAGRAM FOR MORE DETAILS.
  - CONNECT NEW FLOOD LIGHT TO EXISTING CIRCUIT CURRENTLY FEEDING EXTERIOR BUILDING-MOUNTED LIGHTS AS REQUIRED.
  - JUNCTION BOX FOR ELECTRONIC FAUCET SENSOR. VERIFY EXACT LOCATION AND REQUIREMENTS W/ EQUIPMENT SUPPLIER PRIOR TO BEGINNING WORK.
  - STUB 1-3/4" C. TO 6" ABOVE ACCESSIBLE CEILING IN THIS AREA. VERIFY EXACT LOCATION AND REQUIREMENTS W/ CITY OF LAKE PARK PRIOR TO BEGINNING WORK.

EXISTING PANEL B													
MAINS:		100 MLO		VOLTAGE: 208/120		WIRE: 4		MOUNTING: SURFACE					
BUS:		100 A		PHASE: 3		AIC: 10 kA		ENCLOSURE: NEMA 1					
CKT #	TRIP	LOAD	AWG/ COND.	DESCRIPTION	CONNECTED LOAD KVA			DESCRIPTION	AWG/ COND.	LOAD	TRIP	CKT #	
1	20/1	B	EXSTG	RECEPT	0.6	1.1		0.5	TIME CLOCK	EXSTG	G	20/1	2
3	20/1	B	EXSTG	RECEPT	0.6		1.2	0.6	RECEPT	EXSTG	B	20/1	4
5	20/1	B	EXSTG	RECEPT	0.6		0.8	0.2	PHOTOCELL	EXSTG	G	20/1	6
7	20/1	G	EXSTG	EXISTING	0.4	1.4		1.0	XMAS TREE	EXSTG	A	20	8
9	20/1	G	EXSTG	MEN'S HAND DRYER	1.5		2.5	1.0		EXSTG	A	20	10
11	20/1	G	#12-3/4"	EXTERIOR RECEPT	0.2			1.5	WOMEN'S HAND DRYER	EXSTG	G	20/1	12
13	30/1	G	#12-3/4"	EXTERIOR RECEPT	1.0	1.5		0.6	EXHAUST FAN	#12-3/4"	G	20/1	14
15	30/1	G	#12-3/4"	EXTERIOR RECEPT	1.0		1.7	0.7	LIGHTS	#12-3/4"	A	20/1	16
17	20/1	G	#12-3/4"	EXTERIOR RECEPT	0.2			0.9	EWC	#12-3/4"	G	20/1	16
19	40	G	#8-3/4"	EWH	3.3	3.3			SPACE				20
21	2	G			3.3	3.3			SPACE				22
23				SPACE					SPACE				24
25				SPACE					SPACE				26
27				SPACE					SPACE				28
29				SPACE					SPACE				30

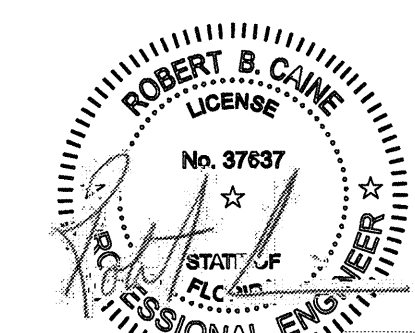
Panel Load Analysis					
Load Type	Description	Conn. KVA	Demand KVA	2008 NEC Reference	2008 NEC Reference
A	Lighting	2.7	3.2	Per NEC Table 220.12	
B	Receptacles	2.4	2.4	Per NEC Table 220.44	
C	Air-Conditioning			Per NEC Article 440.6	
D	Heating			Per NEC Article 220.60	
Phase A Connected Load		7.3			
Phase B Connected Load		8.7			
Phase C Connected Load		3.4			
TOTAL CONNECTED LOAD:		19.4 KVA			
TOTAL DEMAND LOAD:		19.9 KVA			

LOCATION: REFER TO PLANS  
LOAD AMPS: 55.4



2 PARTIAL EXISTING ELECTRICAL RISER DIAGRAM  
E-1 SCALE: NTS

SPECIFIED BRAND NAMES ARE FOR DESCRIPTIVE PURPOSES ONLY. EQUAL EQUIPMENT OR MATERIAL WILL BE ACCEPTED. SEE CONTRACT MANUAL FOR MINIMUM REQUIREMENTS FOR ESTABLISHING EQUALITY



NO.	REVISION	DATE
1	RD SET	7/31/2016
2	RE:RD	11/06/2016

CPZ ARCHITECTS, INC. LAKE SHORE PARK RESTROOM FACILITY  
 4316 WEST BROWARD BOULEVARD  
 PLANTATION, FLORIDA 33317  
 (954) 371-0599  
 WWW.CPZARCHITECTS.COM



DRAWING TITLE:  
**BUILDING PLAN - ELECTRICAL**  
 DRAWN: Author  
 CHECKED: Checker  
 DATE: 4/11/2016  
 SCALE:  
 PROJECT NO. 1533  
 SHEET:

E-1

NO.	REVISION	DATE
BID SET		7/5/2016
REV.00		11/02/2016

CONSULTANT:

- ALL WORK SHALL BE PREFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2014 EDITION.
- DRAWINGS: REFER TO ALL DRAWINGS FOR COORDINATION OF THE PLUMBING WORK. DRAWINGS ARE DIAGRAMMATIC FOR ANY AND ALL DIMENSIONING OF SPECIFIC LOCATION SEE ARCHITECTURAL DRAWINGS OR MANUFACTURER'S REQUIREMENTS.
- CONTRACTOR SHALL ARRANGE AND PAY FOR ALL PERMITS, LICENSES, INSPECTIONS AND TESTS. OBTAIN THE REQUIRED CERTIFICATES AND PRESENT TO OWNER.
- GUARANTEE: THE COMPLETED INSTALLATION SHALL BE FULLY GUARANTEED AGAINST DEFECTIVE MATERIALS AND/OR IMPROPER WORKMANSHIP FOR A MINIMUM OF ONE YEAR FOR MATERIAL AND LABOR.
- ALL HORIZONTAL SANITARY PIPING SHALL SLOPE AT 1/8 INCH PER FOOT MINIMUM FOR 3" AND LARGER AND AT 1/4" SLOPE FOR 2" PIPES AND SMALLER, UNLESS OTHERWISE STATED.
- DISTANCE OF TRAP FROM VENT. EACH FIXTURE TRAP SHALL HAVE A PROTECTING VENT LOCATED SO THAT THE SLOPE AND THE DEVELOPED LENGTH IN THE FIXTURE DRAIN FROM THE TRAP WEIR TO THE VENT FITTING ARE WITHIN THE REQUIREMENTS SET FORTH IN TABLE 909.1
- THE WORK THAT IS TO BE DONE UNDER THIS CONTRACT INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS AND EQUIPMENT, PERMITS, FEES, INSPECTIONS, TESTS AND INSURANCE, REQUIRED FOR THE COMPLETION OF THE SYSTEMS AS SHOWN ON THE DRAWINGS AND/OR LISTED BELOW. CONTRACTOR SHALL VISIT THE SITE PRIOR TO THE BIDDING AND FAMILIARIZE HIMSELF WITH EXISTING EQUIPMENT, SYSTEMS AND BUILDING STRUCTURE.
- DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT AND CONFIRM WITH OWNER'S REPRESENTATIVE AND/OR ARCHITECT.
- ALL EXISTING LOCATIONS ARE TAKEN FROM EXISTING DRAWINGS AND KNOWN FIELD CONDITIONS. IT SHALL BE WITHIN THE CONTRACTOR'S SCOPE OF WORK TO VERIFY FIELD DIMENSIONS OF EXISTING EQUIPMENT OR SYSTEMS PRIOR TO DEMOLITION OR FABRICATION OF NEW WORK WHICH IS TO BE CONNECTED TO THE EXISTING. CONTRACTOR SHALL MAKE OFFSETS AS REQUIRED IN NEW AND/OR EXISTING PIPING AND CONDUIT TO ACCOMMODATE THE NEW WORK.
- ALL WORK SHALL BE COORDINATED WITH EXISTING TRADES AND IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS. ALL DOWN TIME TO BE COORDINATED WITH OWNER IN WRITING, AND SHALL BE BID AS PREMIUM TIME. ALL DOWN TIME WORK SHALL BE PERFORMED AT NIGHT OR AS DIRECTED BY THE OWNER.
- ALL HOLES CREATED IN CEILING, PARTITIONS, ETC. AS A RESULT OF DEMOLITION SHALL BE PATCHED BACK TO MAINTAIN THE EXISTING FIRE AND SMOKE INTEGRITY.
- SLEEVE AND FIRE STOP PENETRATIONS OF RATED WALLS, FLOORS, CEILING AND ROOFS. FLASH AND COUNTER FLASH ALL ROOF PENETRATIONS.
- CONTRACTOR SHALL PROVIDE PIPE LABELING EVERY 10'-0".
- ALL MATERIAL, EQUIPMENT, AND APPARATUS SHALL BE NEW, EXCEPT THAT CALLED FOR AS BEING REUSED OR FURNISHED BY OTHERS. ALL MATERIAL SHALL BE APPROVED BY THE ARCHITECT/ENGINEER BEFORE INSTALLATION.
- CONTRACTOR SHALL CONNECT WATER AND WASTE TO EQUIPMENT FURNISHED BY OTHERS AS INDICATED ON DRAWINGS. ALL FIXTURES TO BE PROTECTED AGAINST WATER HAMMER BY SHOCK ARRESTERS.
- ALL PIPING IS TO BE PLENUM RATED WHERE EXPOSED TO PLENUM. WALLS/CHASE OR OPENING THAT IS EXPOSED TO PLENUM THAT HAS PIPING INCLUDED.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL, WITHIN 30 DAYS OF SIGNING CONTRACT, A MINIMUM OF 5 COPIES OF FULLY DESCRIPTIVE, LITERATURE, INCLUDING BUT NOT LIMITED TO: WATER HEATERS, AND PLUMBING FIXTURES. NO WORK SHALL PROCEED WITHOUT THE APPROVAL OF THESE SUBMITTALS.
- WHERE CONNECTION TIES INTO HORIZONTAL STACK THE CONNECTION SHALL BE A MINIMUM OF 10X THE STACK DIAMETER DOWNSTREAM OF THE VERTICAL TO HORIZONTAL TRANSITION. UNLESS OTHERWISE STATED.
- SANITARY TEE CAN BE USED ONLY IN THE VERTICAL POSITION. TEE WYE CAN BE USED FOR BOTH HORIZONTAL AND VERTICAL ASSEMBLY.
- SHORT TURN FITTINGS SHOULD NEVER BE INSTALLED ON HORIZONTAL PIPING, BUT MAY BE USED VERTICALLY WHEN TRANSFERRING TO A HORIZONTAL.
- PIPING IS NEVER TO RUN OVER ELECTRICAL EQUIPMENT. ENGINEER IS TO BE IMMEDIATELY NOTIFIED IF THIS OCCURS.
- PROVIDE ACCESS PANELS TO ALL VALVES, HAMMER ARRESTORS AND STUDDOR VENTS LOCATED WITHIN CHASES OR NON-ACCESSIBLE CEILING. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- IN THE EVENT A BEAM SLEEVE PENETRATION IS REQUIRED, COORDINATE PENETRATIONS WITH ALL TRADES, THE ARCHITECT AND THE STRUCTURAL ENGINEER.
- REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
- PROVIDE CLEANOUTS IN ACCORDANCE WITH THE FBC (PLUMBING). PROVIDE TRAP PRIMER CONNECTION TO ALL FLOOR DRAINS, SLEEVE ALL SOFT COPPER PENETRATIONS THROUGH RATED PENETRATIONS AND FIRESTOP.

- THERE SHALL BE NO LENGTH GREATER THAN 2' FROM THE VENT CONNECTION FOR ANY FUTURE DRAIN OUTLETS.
- INSULATE ALL STORM WATER HORIZONTAL PIPING, OFFSETS AND THE BODIES OF ALL ROOF DRAINS TO PREVENT CONDENSATION.
- ALL HOT AND COLD WATER PIPING SHALL BE COPPER TYPE-L, SFBC 46041(C) COMPATIBLE UNLEADED SOLDER AND DIELECTRIC FITTINGS AS REQUIRED. PIPE INSULATION SHALL BE PROVIDED FOR ALL HOT WATER AND HOT WATER RETURN PIPING WITH 1" THICK FIBERGLASS INSULATION WITH VAPOR BARRIER JACKET, FLAME SPREAD OF 25 OR LESS, SMOKE DEVELOPED RATING OF LESS THAN 50, OWENS CORNING OR APPROVED EQUAL.
- COMPATIBLE UNLEADED SOLDER AND DIELECTRIC FITTINGS AS REQUIRED. DIELECTRIC FITTINGS TO BE PROVIDED AT CONNECTIONS BETWEEN TWO DIFFERENT TYPES OF METAL PIPING.
- SANITARY WASTE AND VENT PIPING SHALL BE INSTALLED w/NO-HUB JOINTS. ALL HORIZONTAL R/W PIPING SHALL HAVE 1" THICK FIBERGLASS INSULATION WITH VAPOR BARRIER JACKET, FLAME SPREAD OF 25' OR LESS, SMOKE DEVELOPED RATING OF LESS THAN 50, OWENS CORNING OR APPROVED EQUAL.
- CONTRACTOR TO PROVIDE SHUT-OFF VALVES ON ALL HOT AND COLD WATER LINES AT CONNECTION TO MAIN LINES.
- PLUMBING FIXTURES:  
FIXTURES SHALL BE COMPLETE WITH DRAINS, TRAPS, 1/2 TURN VALVES, BRAIDED SUPPLY HOSE AND ANY OTHER ACCESSORY REQUIRED.
- MATERIALS:  
A. PIPING:  
C. SOIL, WASTE AND VENT: SANITARY PIPE, PVC, DWV, SCHEDULE 40, STANDARD WEIGHT CAST IRON, EPOXY COATED SCH. 40 CAST IRON PIPE. MUST BE CISPI APPROVED. FOAM CORE WILL NOT BE ACCEPTABLE  
D. DOMESTIC WATER AND HEATING HOT WATER:  
COPPER PIPE, TYPE "L" WITH SWEAT WROUGHT COPPER FITTINGS. TYPE "M" IN CONCEALED PACES IS ACCEPTABLE. ISOLATE PIPING FROM CONCRETE WITH INSULATING MATERIAL.  
E. CONDENSATE DRAIN: COPPER TYPE "L" ABOVE SLAB ON GRADE. DWV PVC UNDERGROUND.  
F. DOMESTIC WATER SUPPLY ASSEMBLY: CHROME FINISH TUBING. WITH QUARTER TURN ANGLE SHUT OFF BALL VALVE  
G. INSULATION: INSULATE ALL HORIZONTAL PIPING WITH 1" THICK FIBERGLASS INSULATION, WITH SELF SEALING JACKET. INSULATE CONDENSATE PIPING AND STORM WATER PIPING WITH 1/2" ELASTOMERIC INSULATION.  
H. SANITARY PIPING: SCHEDULE 40 CAST IRON, PVC  
I. STORM WATER PIPING: SCHEDULE 40 CAST IRON, PVC, DWV  
FOAM CORE WILL NOT BE ACCEPTABLE.  
J. PIPING IN PLENUMS SHALL BE CAST IRON OR FIRE RATED.
- ALL WATER HEATERS SHALL MEET THE STANDARDS OF THE LATEST ENERGY EFFICIENCY CODE.
- PIPING TESTING AND CLEANING:  
A. TEST: ALL SANITARY AND DOMESTIC WATER SUPPLY PIPING SHALL BE TESTED FOR LEAKS BEFORE PIPING IS CONCEALED OR CONNECTED TO EQUIPMENT AND PLUMBING FIXTURES.  
B. DISINFECTION: ALL DOMESTIC WATER PIPING SHALL BE DISINFECTED BY INTRODUCING A SOLUTION OF CALCIUM HYPOCHLORITE OF 50 PARTS PER MILLION OF CHLORINE AND AS PER AWWA STANDARDS.
- VALVES: DOMESTIC WATER VALVES SHALL BE OF BRONZE BODY, SWEAT ENDS.
- ALL EXTERIOR CLEAN OUTS SHALL BE TERMINATED UP TO GRADE AND SHALL BE MARKED. COVER SHALL BE INCLUDED.
- CONTRACTOR SHALL COORDINATE EXACT LOCATION OF SANITARY, STORM DOMESTIC WATER, AND CONDENSATE PIPING BEFORE STARTING ANY WORK. NOTIFY ARCHITECT/ENGINEER OF ANY DEVIATIONS FROM DESIGN DRAWINGS.
- CONTRACTOR SHALL PROVIDE FOR EXISTING VALVES NOT CLOSING WHEN CONNECTING TO EXISTING PIPING IN BID.
- CONTRACTOR SHALL PROVIDE STOP VALVES AND VACUUM BREAK BEFORE ALL OPERATING HANDLES AND FAUCETS, WHERE REQUIRED.
- UNDER GROUND WATER PIPING SHALL BE 2' MINIMUM AWAY FROM SANITARY PIPING. WHERE WATER LINE AND SANITARY LINE CROSS, WATER SHALL BE INSTALLED MINIMUM OF 12" ABOVE SANITARY AND SHALL BE EITHER SCHEDULE 40 PVC OR DOUBLE WALLED PIPING.
- PIPES PASSING THROUGH CONCRETE, CINDER OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY A PROTECTIVE SHEATHING OR WRAPPING AS PER THE FBC 305.1.
- ALL PIPING BEING INSTALLED WITHIN A PLENUM ARE TO BE PLENUM RATED. IN THE EVENT THAT THERE IS EXISTING PIPING WITHIN A PLENUM CONTRACTOR SHALL FIRE WRAP OR USE OTHER MEANS TO MAKE THE PIPING PLENUM RATED. FIRE CAULK AT PIPING PENETRATIONS SHALL ALSO BE PROVIDED TO MAINTAIN PLENUM RATING.

- ALL PRODUCTS SHALL BE MANUFACTURED WITHIN THE UNITED STATES WHERE POSSIBLE. PIPING AND RAW MATERIALS WITH ORIGINS OUTSIDE OF THE UNITED STATES SHALL BE IDENTIFIED AS PART OF THE BID. PIPING, BOLTS, FITTINGS AND MISCELLANEOUS METAL PRODUCTS ORIGINATING FROM CHINA WILL NOT BE PERMITTED.
- PRODUCTS USED FOR THIS PROJECT SHALL COMPLY WITH APPLICABLE UNITED STATES STANDARDS. COMPLIANCE WITH A FOREIGN STANDARD AS AN ALTERNATE SHALL NOT BE ACCEPTED.
- MAXIMUM DISTANCE OF FIXTURE TRAP FROM VENT TO BE DETERMINED BY TABLE 909.1 OF THE FBC (PLUMBING).
- PLUMBING DRAWINGS IN GENERAL ARE DIAGRAMMATIC IN NATURE, AND SHALL BE READ IN CONJUNCTION WITH ALL OTHER TRADES PLANS. THE FOLLOWING DRAWINGS ARE TO BE CONSIDERED ONE PART OF A SET OF DOCUMENTS. ALL PIPING CONNECTIONS INCLUDING BUT NOT LIMITED TO OFFSETS, BENDING AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF MATERIALS OR EQUIPMENT.
- CONTRACTOR TO FIELD VERIFY EXACT SIZES AND LOCATIONS OF EXISTING PIPING WITHIN AREAS OF SCOPE PRIOR TO CONSTRUCTION. ANY PIPING WHICH MUST REMAIN AS PART OF AN ACTIVE SYSTEM AND IS IN CONFLICT WITH THE NEW LAYOUT, NEW LAYOUT SHALL BE RELOCATED AT NO ADDITIONAL COST OVER THE CONTRACT AMOUNT.
- WHERE CORE DRILLING OF FLOOR/WALLS IS REQUIRED, CONTRACTOR SHALL SEAL OPENINGS WATERTIGHT AFTER UTILITIES HAVE BEEN INSTALLED. LOCATION OF CORED HOLES SHALL BE COORDINATED WITH LOCATION OF EQUIPMENT IN A MANNER TO BE CLEAN AND FUNCTIONAL.
- ARCHITECTURAL AND/OR ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THE CONTRACTOR.
- CONTRACTOR TO NOTIFY ENGINEER IF EXISTING PIPING DIFFERS FROM DRAWINGS.
- EVERY DRY VENT CONNECTING TO A HORIZONTAL DRAIN SHALL CONNECT ABOVE THE CENTERLINE OF THE HORIZONTAL PIPE FBC (2014) 905.3.
- INDIVIDUAL SHOWER AND TUB-SHOWER COMBINATION VALVES SHALL BE BALANCED-PRESSURE, THERMOSTATIC OR COMBINATION BALANCED-PRESSURE/THERMOSTATIC VALVES THAT CONFIRM TO THE REQUIREMENTS OF ASSE 1016 AND AS PER FBC (2014) 424.3.
- TEMPERED WATER SHALL BE DELIVERED FORM LAVATORIES AND GROUP WASH FIXTURES LOCATED IN PUBLIC TOILET FACILITIES PROVIDED FOR CUSTOMERS, PATRONS AND VISITORS. TEMPERED WATER SHALL BE DELIVERED THROUGH AN APPROVED WATER-TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B125.3. FBC (2014) 416.5.

**PLUMBING FIXTURE SCHEDULE**

NAME	FIXTURE	MODEL #	ACCESSORIES
HWC	HANDICAPPED WATER CLOSET (FLOOR MOUNT FLOOR DISCHARGE)	ACORN MERIDAN MODEL 2141-3-W-2 -FM-HET1.28-FVBO -ADA-HS-OFLC	SLOAN ROYAL 152-1.28 PUSH BUTTON CONCEALED FLUSH VALVE 1 1/2" SPUD COUPLING ASSEMBLY. 1.28 GPF.
WC-1	HANDICAPPED WATER CLOSET (FLOOR MOUNT FLOOR DISCHARGE)	ACORN MERIDAN MODEL 2141-3-T-2 -FM-HET1.28-FVBO -ADA-HS-OFLC	SLOAN FLUSH VALVE G2-8115 WITH SATIN CHROME FINISH BATTERY POWERED AND 1 1/2" SPUD COUPLING ASSEMBLY. 1.28 GPF.
HLAV AND LAV	WALL HUNG LAVATORY	ACORN MODEL 1950-1-9-H1 DURA WARE SINGLE HOLE CONNECTIONS HIGH UP UNDER THE SINK.	SLOAN FAUCET, HARDWIRED EFX-200-000-0040 BASYS -PVDSF BRUSHED CHROME ELECTRONIC 'NO TOUCH' SINGLE SUPPLY 0.5GPM PROVIDE THROUGH BOLT WITH BACKING PLATE. LOCATE POWER IN PLUMBING CHASE.
UR	URINAL	ACORN MODEL 2158-T-1-0.5-FVBO DURA WARE WALL HUNG	SLOAN ROYAL195-0.5-L L-VARIATION FOR PUSH BUTTON CONCEALED FLUSH VALVE 0.5 GPF.
JS FAUCET	JANITOR'S SINK FAUCET	GERBER C4-44-654	COMMERCIAL GRADE SERVICE AND UTILITY WITH BUCKET HOOK WALL MOUNTED. 2.2GPM.
EWC	ELECTRIC WATER COOLER	MOST DEPENDABLE FOUNTAINS, INC. (MDF) MODEL 440-18 SM CHILLED	PROVIDE STAINLESS STEEL (SS) CARRIER, SAFE STREAM BUBBLER, WATER FILTER, SS WHITE POWDER COATED.
PT	PRESSURE TANK	AMTROL WELL-XL-TROL WX-104	10.3 GAL. FACTORY PRE-CHARGE

FIXTURE	MAX FLOW RATES
HWC/WC (FLUSH VALVE)	1.6 GPF
HLAV/LAV	0.5 GPM
UR	1.0 GPF
MS	2.2 GPM
EWC	0.5 GPM

ALL PLUMBING FIXTURES AND APPLIANCES SHALL COMPLY WITH F.B.C (PLUMBING) TABLE 604.4.

PRODUCTS SPECIFIED ARE BASIS OF DESIGN OR APPROVED EQUALS WILL BE REVIEWED.

**PLUMBING GENERAL NOTES**

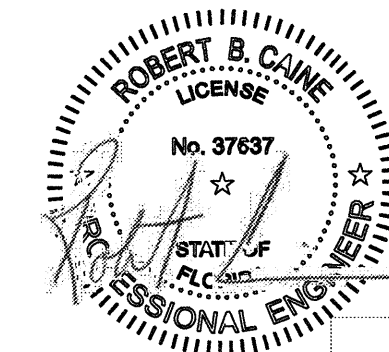
DWG. NO.	DRAWING DESCRIPTION
P-1	NOTES AND LEGEND
P-2	PLAN, ISOMETRICS AND DETAILS

**WATER HEATER SCHEDULE**

TAG	HEATING CAP	CONTROL	TEMP.	MANUFACTURER & MODEL:
TWH	8.3 KW	208/1 40 AMP BKR	120° F	EE MAX EX8208T

PLUMBING GENERAL NOTES PLUMBING GENERAL NOTES

SPECIFIED BRAND NAMES ARE FOR DESCRIPTIVE PURPOSES ONLY. EQUAL EQUIPMENT OR MATERIAL WILL BE ACCEPTED. SEE CONTRACT MANUAL FOR MINIMUM REQUIREMENTS FOR ESTABLISHING EQUALITY



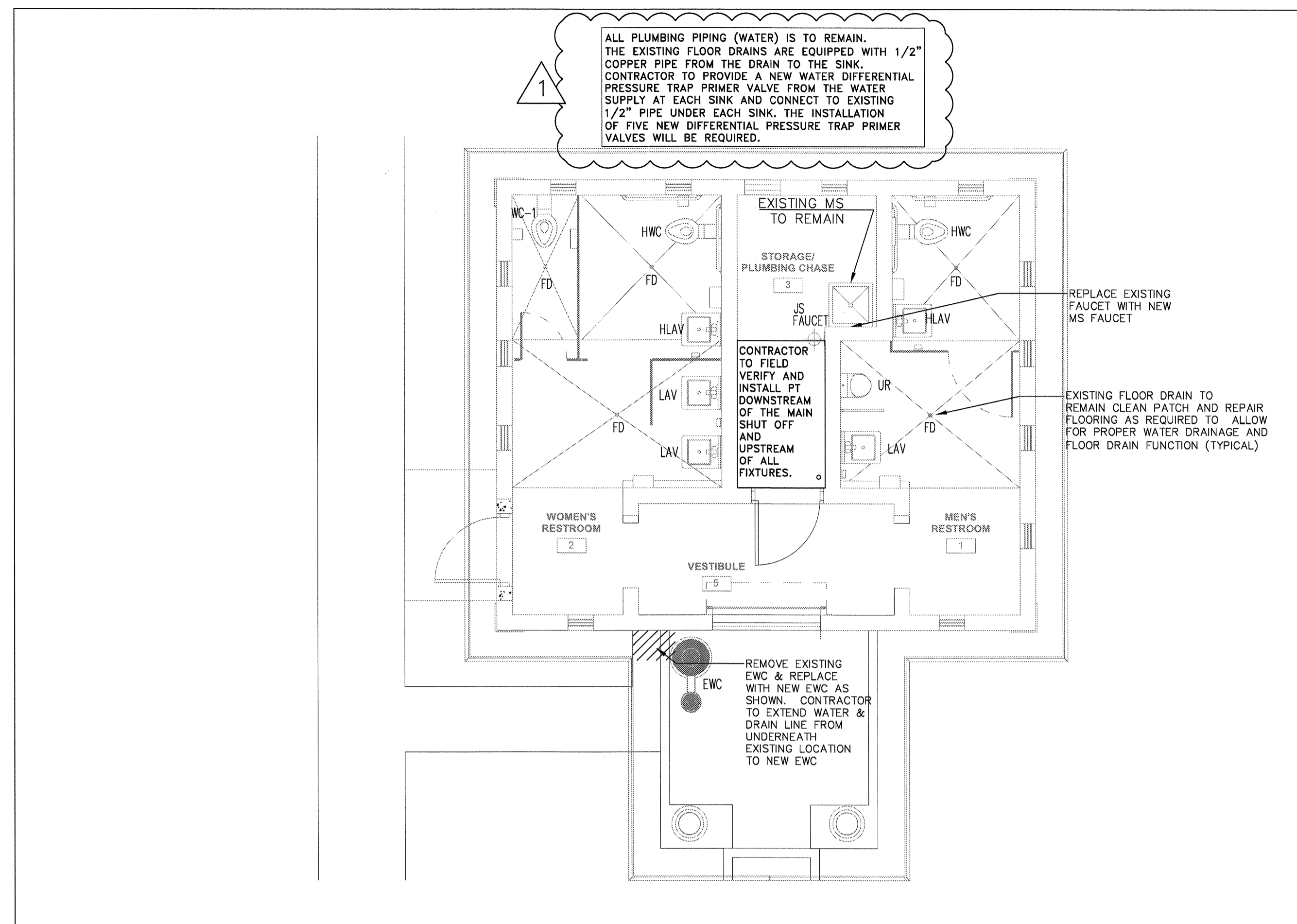
**CPZ ARCHITECTS, INC.** LAKE SHORE PARK RESTROOM FACILITY  
 414 WEST BROADWAY BOULEVARD  
 PLANTATION, FLORIDA 33117  
 PHONE: (954) 792-9633 FAX: (954) 378-6989  
 WWW.CPZARCHITECTS.COM



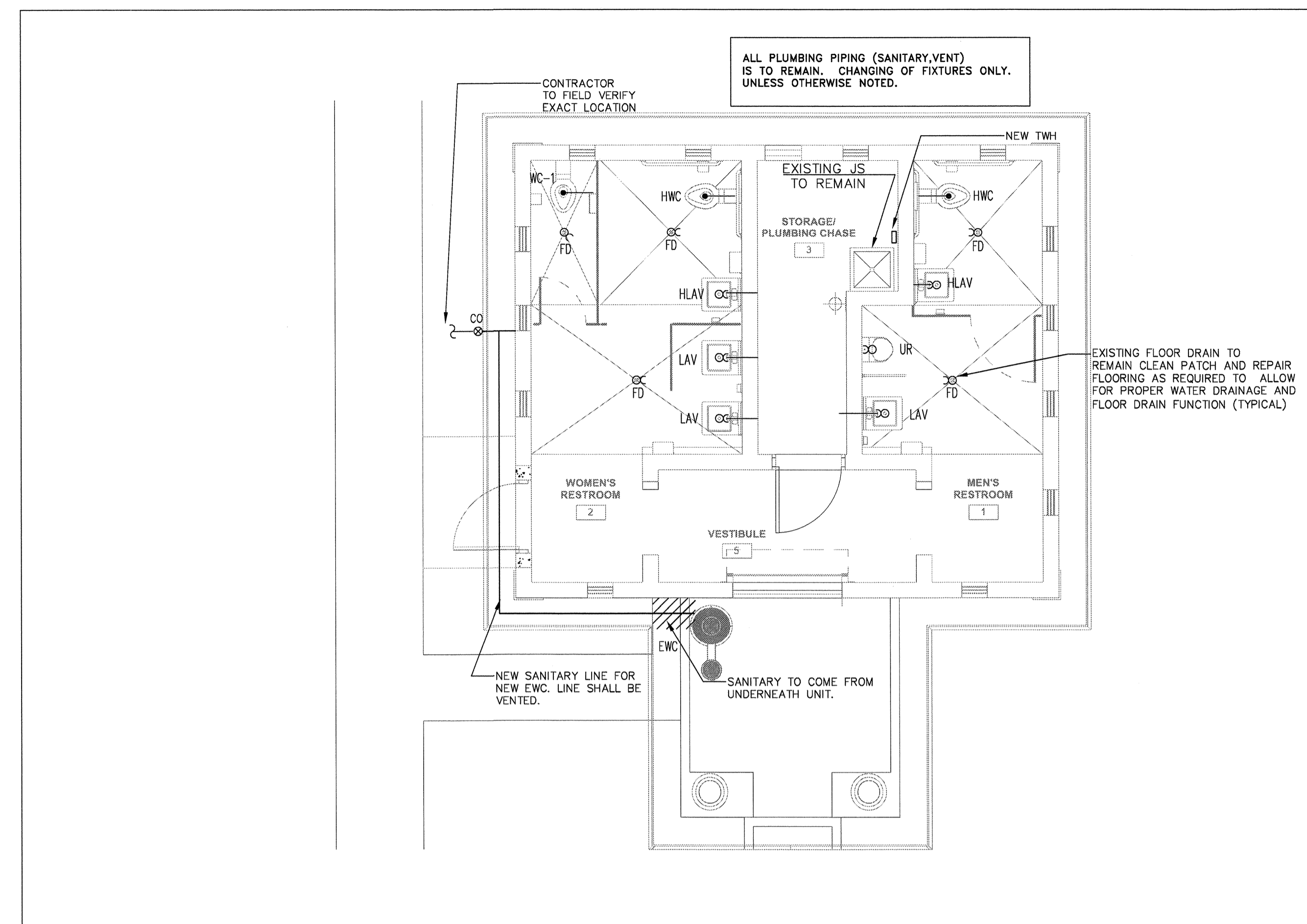
DRAWING TITLE:  
**PLUMBING NOTES AND LEGEND**  
 DRAWN: Author  
 CHECKED: Checker  
 DATE: 4/11/2016  
 SCALE:  
 PROJECT NO. 1533  
 SHEET:

NO.	REVISION	DATE
BID SET		7/11/2014
REV-BD		11/06/2016

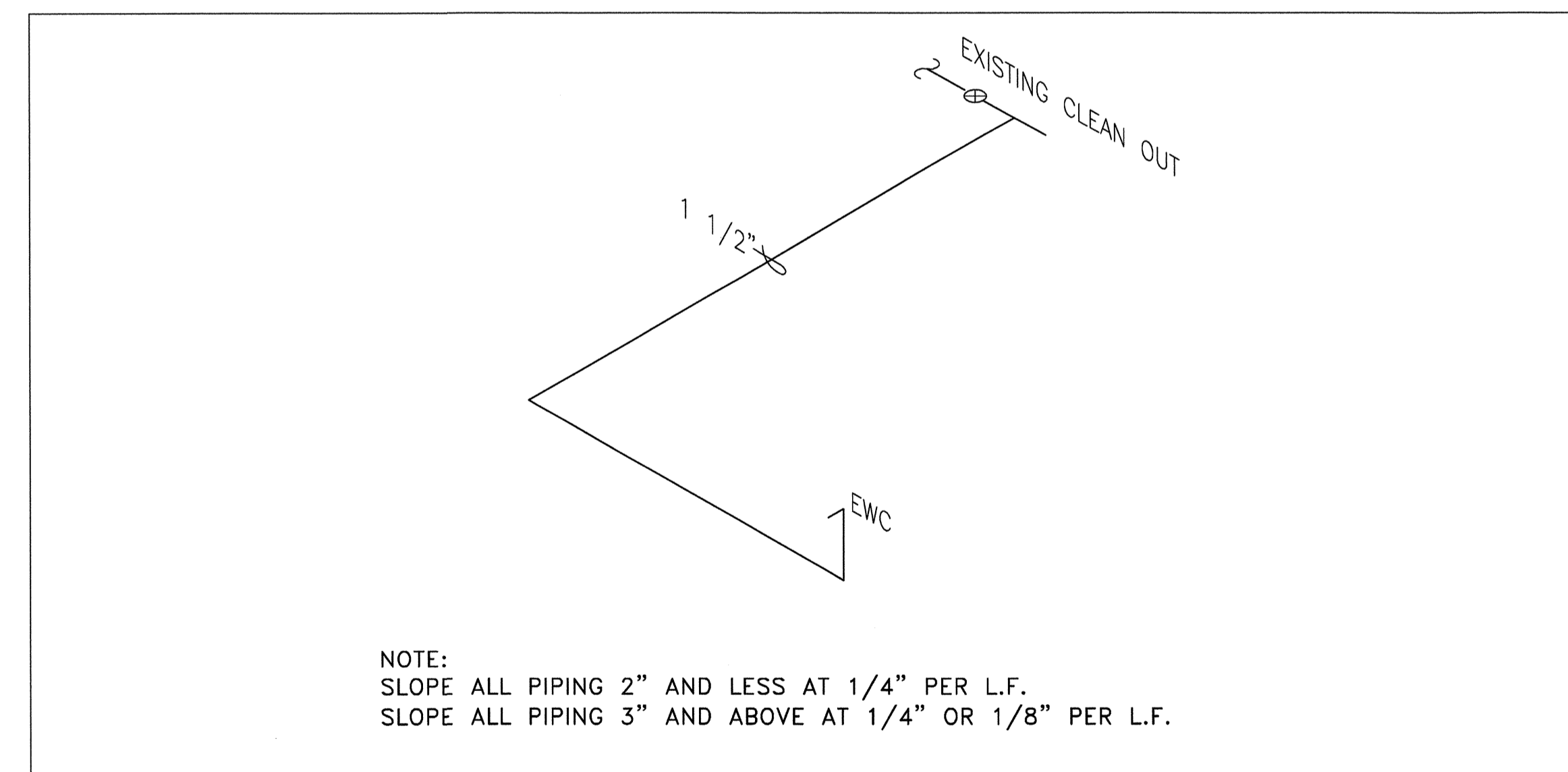
CONSULTANT:



BUILDING PLAN – LAKE SHORE PARK PLUMBING WATER  
SCALE: 1/4" = 1'-0"

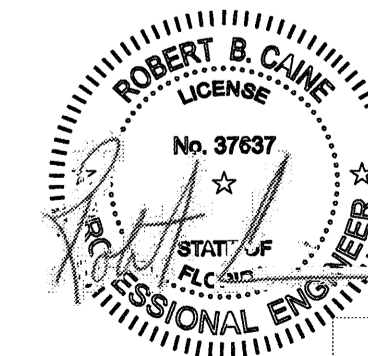


BUILDING PLAN – LAKE SHORE PARK PLUMBING SANITARY  
SCALE: 1/4" = 1'-0"



LAKE SHORE PARK SANITARY ISOMETRIC  
N.T.S.

SPECIFIED BRAND NAMES ARE FOR DESCRIPTIVE PURPOSES ONLY. EQUAL EQUIPMENT OR MATERIAL WILL BE ACCEPTED. SEE CONTRACT MANUAL FOR MINIMUM REQUIREMENTS FOR ESTABLISHING EQUALITY



CPZ ARCHITECTS, INC. LAKE SHORE PARK RESTROOM FACILITY  
 416 WEST BROWARD BOULEVARD  
 PLANTATION, FLORIDA 33317  
 PHONE: (954) 792-8252 FAX: (954) 337-0509  
 AN 02866865 WWW.CPZARCHITECTS.COM  
 LAKE SHORE DR  
 LAKE PARK, FL.



DRAWING TITLE:  
**BUILDING PLAN PLUMBING**  
 DRAWN: Author  
 CHECKED: Checker  
 DATE: 4/11/2016  
 SCALE:  
 PROJECT NO. 1533  
 SHEET:





- ADA compliant accessibility cylinder, institutional grade, 30 year warranty
  - Hold open steel arm, all-weather fluid, powder coated metal cover
- ITEM: Door Latch Set Reference Kelsey Park sheet A-7, Lake Shore sheet A-5
- ADA compliant, ANSI Grade 1, Exceed ANSI A156.2 lock lever torque requirement
  - Stainless steel face plate, zinc plated chassis and latch bolt
  - 6 pin, Small Format Interchangeable Core (SFIC), 10 year warranty
- ITEM: Exhaust Fan Kelsey Park sheet M-0
- Direct drive, in-line exhaust, Approvals: NFPA, UL
  - Permanent lubricated sealed ball bearing, variable RPM electronically commutated motor
  - 18 gauge galvanized steel housing
  - Aluminum centrifugal wheel
  - 1,300 CFM @ 0.5 static pressure (1/2 HP/1426 RPM)
- ITEM: Exhaust Fan Lake Shore Park sheet M-0
- Direct drive, in-line exhaust, Approvals: NFPA, UL
  - Permanent lubricated sealed ball bearing, variable RPM electronically commutated motor
  - 18 gauge galvanized steel housing
  - Aluminum centrifugal wheel
  - 1,000 CFM @ 0.5 static pressure (1/4 HP)
- ITEM: Ceiling Grille Reference Kelsey Park sheet M-0, Lake Shore sheet M-0
- Aluminum border, 1/2" X 1/2" X 1/2" aluminum high free area egg crate core
  - Meet NFPA, ANSI/ASHRAE standards
  - Compatible with ceiling and light fixtures
- ITEM: Wall Pack LED Emergency Light Reference Kelsey Park sheet E-2
- 30 Watt 5000K 2240 Lumen LED, surface mount, 5 year warranty
  - Tempered glass lens, die cast aluminum housing, one-piece silicone gasket
  - bronze powder coat
- ITEM: Flood Light Reference Lake Shore Park sheet E-1
- 30 Watt LED, 2900 Lumen, 3000K, die cast aluminum powder coated (bronze) housing
  - Adjustable knuckle, UL wet location approved, seven year warranty.
- ITEM: Wall Pack Emergency Light Reference Lake Shore Park sheet E-1
- LED, 12 Watt, 2 direction, 3.6 V sealed nickel cadmium battery back-up, brown out circuit, overload/short circuit protection
  - Surface mount, high impact injection molded thermoplastic housing
  - UL, NFPA 101, damp location approved, 5 year warranty
- ITEM: 4' LED Vapor Proof/Vandal Resistant Ceiling Light Reference Kelsey Park sheet E-2, Lake Shore sheet E-1
- 75 Watt 3500K LED, 120 volt, Architectural marine grade aluminum housing, powder coated white, ribbed white polycarbonate lens, LED night light feature, emergency battery, surface mounted. EPDM gasketed for wet application
- ITEM: 2' LED Vapor Proof/Vandal Resistant Ceiling Light Reference Kelsey Park sheet E-2
- 37.5 Watt 3500K LED, 120 volt, Architectural marine grade aluminum housing, powder

- coated white, ribbed white polycarbonate lens, LED night light feature, emergency battery, surface mounted. EPDM gasketed for wet application, tamper proof screw fasteners
- ITEM: 4' LED Vapor Proof Ceiling Light Reference Kelsey Park sheet E-2
- 81 Watt 3500K LED, 8000 Lumens, 120 volt, Institutional self-extinguishing reinforced polyester plastic housing
  - High impact internal prismatic lens, seamless gasket, UL wet locations, 5 year warranty
- ITEM: Occupancy Sensor w/Switch Pack Reference Kelsey Park sheet E-2, Lake Shore Sh. E-1
- Ultrasonic motions sensing light control, 120 volt, ceiling mount, daylight sensor, ultrasonic sensor adjust, time delay-10 minute default, LED indicator
  - 120 volt, 20 amp switch pack
- ITEM: Mop Sink Reference Kelsey Park sheet P-1
- 24" x 24" x 12" square, one-piece cast terrazzo with 20 gauge stainless steel cap
  - Brass drain body cast into sink
- ITEM: Mop Sink Faucet Reference Kelsey Park sheet P-1
- Wall mount solid cast brass housing, vandal proof lever metal handles, ADA compliant
  - Two valve, ceramic disc cartridge
  - 6" spout with bucket hook and stop, support bracket
  - 1/2" NPT supply connection, vacuum breaker
- ITEM: Mop Sink Faucet Reference Lake Shore sheet E-1
- Wall mount solid cast brass housing, 7" spout with bucket hook
  - Two valve, ceramic disc, 1/2" NPT supply connection, vacuum breaker
- ITEM: Floor Drain Reference Kelsey Park sheet P-1
- Cast iron epoxy coated, trap primer, sediment bucket
  - ADA compliant flush drain strainer, vandal resistant
- ITEM: Clean Out Reference Kelsey Park sheet P-1
- Epoxy coated cast iron, heavy duty 5" round gasketed nickel bronze top
  - Removable gas tight gasketed brass cleanout plug, vandal proof
- ITEM: Trap Primer Reference Kelsey Park sheet P-1
- Brass body, all lead free parts, built-in vacuum breaker, multi branch, ASSE approved, local code compliant
- ITEM: Trap Primer Reference Kelsey Park sheet P-1
- Satin chrome plated cast bronze P-trap w/ground joint connection, 1/2" primer tube
  - Threaded wall tube w/ escutcheon
- ITEM: Tankless Water Heater Reference Kelsey Park sheet, Lake Shore Sh. P-1, E-1
- Only on Demand commercial electric tankless hot water heater, 40+/- AMP. Temp range 100-140 degree F
  - Temp. rise 38 degrees F @ 1.5 GPM
- ITEM: Water Hammer Arrestor Reference Kelsey Park sheet P-1, Lake Shore P-1
- Commercial lead free copper housing with polypropylene piston

- EPDM O-ring seal, brass NPT connection, 150 psi working pressure
- ITEM: Pressure Tank Reference Kelsey Park sheet P-1, Lake Shore Sheet P-1
- Steel tank, 10.3 gallon volume, heavy duty diaphragm, polypropylene liner
  - Welded air valve, precharged
- ITEM: Simpson Connector Reference Kelsey Park sheet S2.2
- See Plan Sheet S2.2, NOTES FOR TRUSS TIEDOWN SCHEDULE:
- All anchors specified are Simpson Strong-tie (unless otherwise noted). "No substitutions" shall be made without prior written approval from the engineer of record. Any substitution requests shall be accompanied by manufacturer's specifications and cut sheets. For additional information and installation requirements see manufacturer's specifications.

NO.	REVISION	DATE

CONSULTANT:

CPZ ARCHITECTS, INC. LAKE SHORE PARK RESTROOM FACILITY  
 436 WEST BROWARD BOULEVARD  
 PLANTATION, FLORIDA 33131  
 PHONE: (954) 573-0259  
 FAX: (954) 573-0259  
 WWW.CPZARCHITECTS.COM



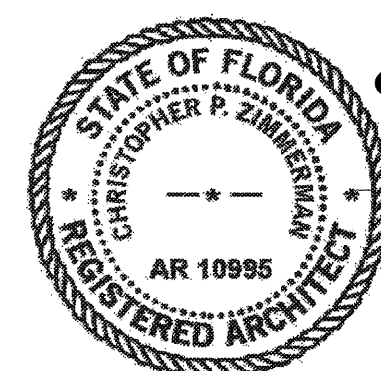
DRAWING TITLE:

TECHNICAL SPECIFICATIONS

DRAWN: DL  
 CHECKED: CPZ  
 DATE: 11/06/16  
 SCALE: 12" = 1'-0"  
 PROJECT NO. 1533  
 SHEET:

TS-2

**NOTE: TECHNICAL SPECIFICATIONS AUTHORED AND PROVIDED BY THE TOWN OF LAKE PARK**



CHRIS P. ZIMMERMAN, A.I.A.  
 REGISTERED ARCHITECT NO. 10,995  
 STATE OF FLORIDA  
 DATE: 11/06/16