

OCP JOHN YOUNG PARK: STORAGE AND RESTROOM BUILDING

14-124

ORANGE COUNTY PARKS
400 E. SOUTH STREET, ORLANDO, FLORIDA 32801

BID/PERMIT DOCUMENTS
09-30-2014

CONSULTANTS:

STRUCTURAL ENGINEERS **C. LOUIS STRUCTURAL ENGINEERS**

901 DOUGLAS AVENUE
 ALTAMONTE SPRINGS, FLORIDA 32714

MECHANICAL, PLUMBING & ELECTRICAL ENGINEERS **BOBES ASSOCIATES CONSULTING ENGINEERS, INC.**

150 CIRCLE DRIVE
 MAITLAND, FLORIDA 32751

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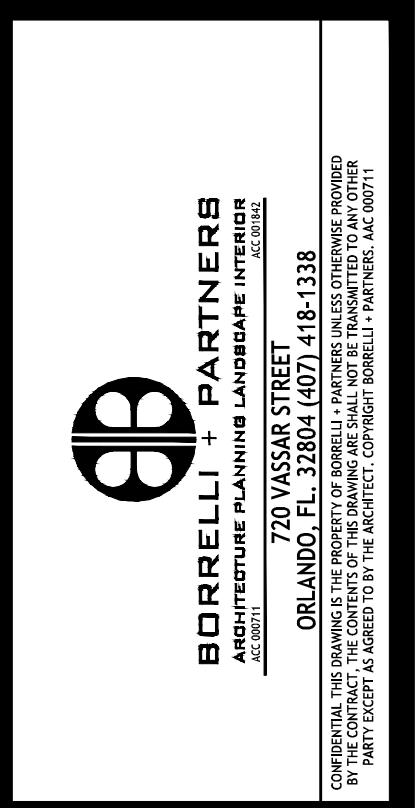
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DRAWING INDEX

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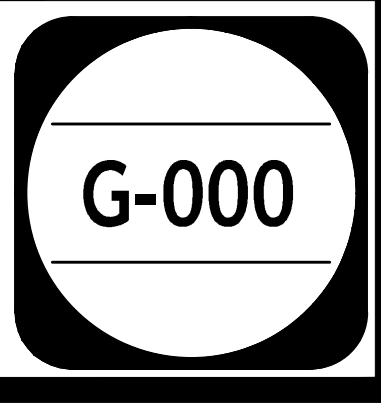
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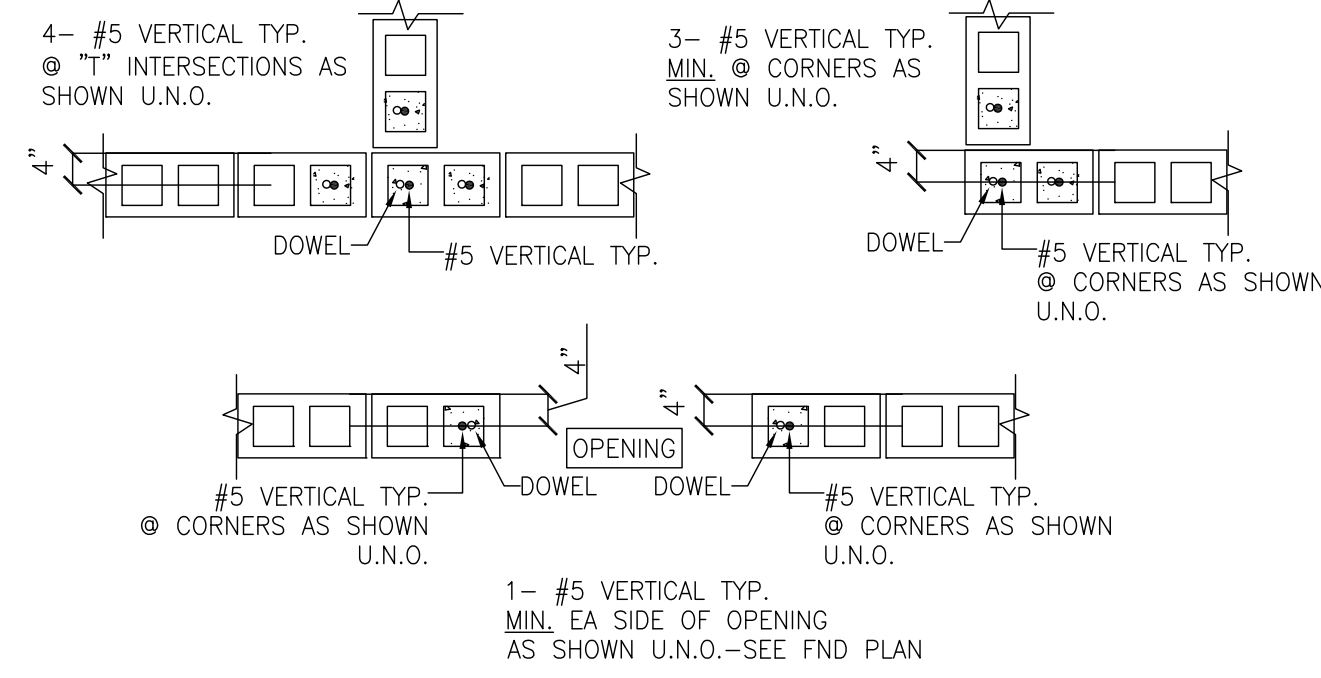
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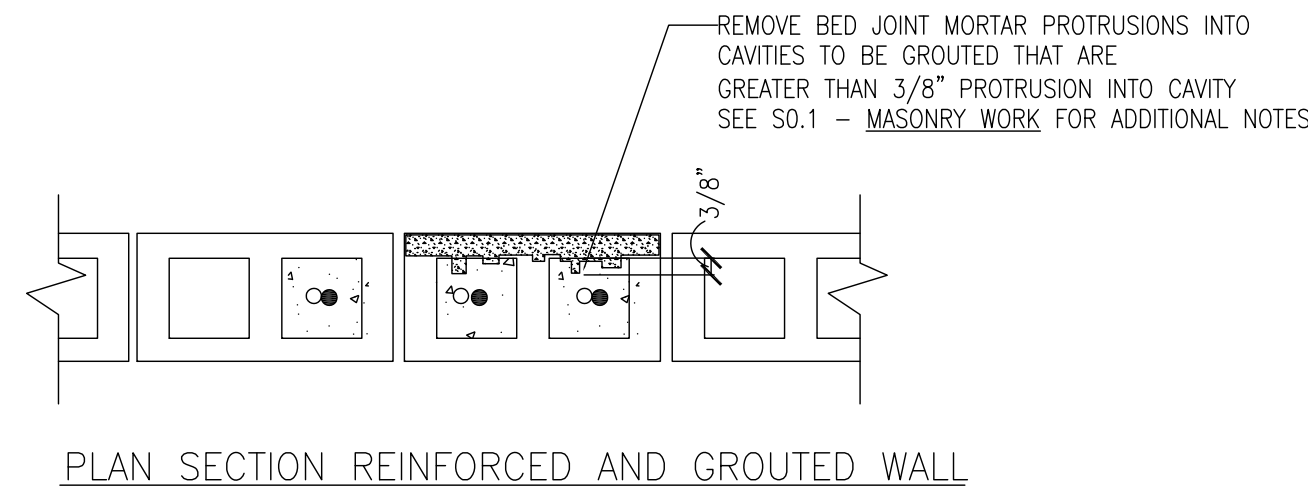
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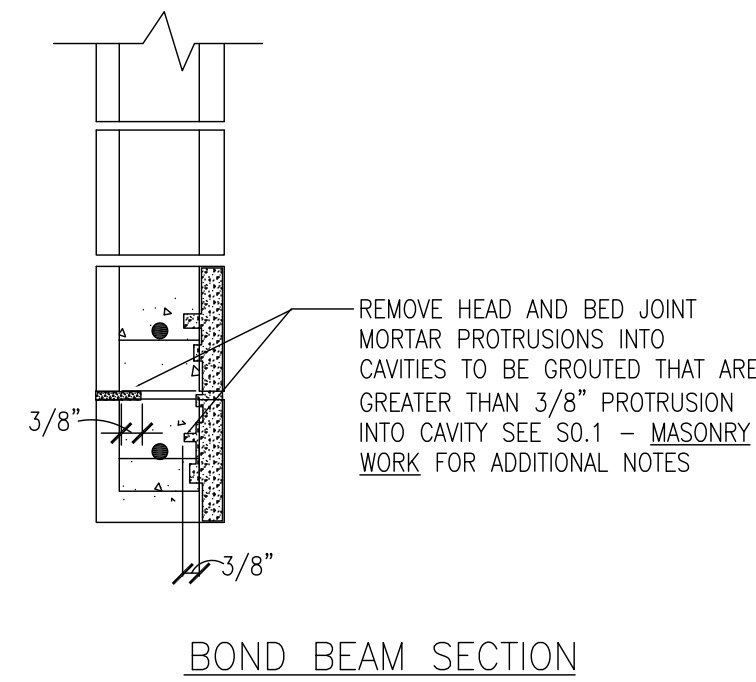
MASONRY WALL LINTEL SCHEDULE					
TYPE	OPENING WIDTH	LINTEL SIZE B X H	COMPOSITE SAFE LOAD LBS/FT	FIELD REINFORCING	REMARKS
L-1	2'-8"	8" X 16"	6,113	1-#5 EA COURSE	
L-2	3'-4"	8" X 16"	6,113	1-#5 EA COURSE	
L-3	4'-0"	8" X 16"	5,365	1-#5 EA COURSE	
L-4	5'-4"	8" X 16"	3,480	1-#5 EA COURSE	
L-5	5'-4"	8" X 24"	8,360	1-#5 EA COURSE	
L-6	6'-0"	8" X 16"	2,661	1-#5 EA COURSE	
L-7	8'-0"	8" X 16"	1,843	1-#5 EA COURSE	
L-8	10'-0"	8" X 24"	2,423	1-#5 EA COURSE	
L-9	8'-8"	8" X 24"	2,781	1-#5 EA COURSE	
L-10	2'-8"	8" X 24"	8,974	1-#5 EA COURSE	
L-11	4'-0"	8" X 24"	7,342	1-#5 EA COURSE	
L-12	3'-4"	8" X 8"	1,663	1-#5 BOT	
L-13	4'-8"	8" X 24"	8,360	1-#5 EA COURSE	
L-14	8'-0"	8" X 24"	3,486	1-#5 EA COURSE	



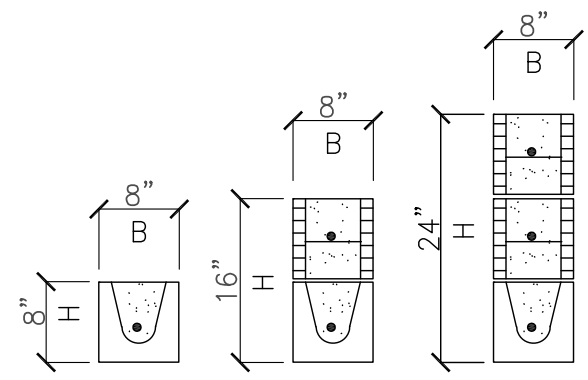
TYPICAL MASONRY WALL DETAILS U.N.O. - SEE FOUNDATION PLAN



PLAN SECTION REINFORCED AND GROUTED WALL



BOND BEAM SECTION



REINF. TO BE AS SHOWN - CONTINUOUS BOND BM REINF. TO BE CONSIDERED AS PART OF LINTEL REINF. GROUT PRECAST LINTELS AT THE SAME TIME AS COMPOSITE BOND BEAMS.

LINTELS TO BE PRECAST CONCRETE "U" LINTELS - AS MANUFACTURED BY CAST-CRETE FLORIDA CERTIFICATE OF PRODUCT APPROVAL NO. FL158.

SEE MANUFACTURER'S SAFE LOAD TABLES AND DESIGN CROSS SECTIONS FOR EXACT REINFORCING, DIMENSIONS AND SPECIFICATIONS.

WHERE LINTEL CONSISTS OF 2 OR MORE COURSES GROUT ALL COURSES AT SAME TIME.

LINTELS ARE TO BEAR A MINIMUM OF 8" AT EACH END U.N.O.

PROVIDE PRECAST LINTEL OVER ALL MECHANICAL MASONRY WALL OPENINGS 2'-0" AND WIDER U.N.O. PROVIDE LINTELS AT MECH DUCTS AND LOUVERS AS REQUIRED - SEE ARCH/MECH DWGS.

MASONRY BOND BEAM SCHEDULE

MARK	SIZE	FIELD REINFORCING	REMARKS
BB-1	8" X 16"	1-#5 CONT.	TYP. AT TOPS OF MASONRY WALLS & AT ELEV 7'-4" (BM BOT.) U.N.O.

NOTE - ALL FASTENERS AND CONNECTORS EXPOSED TO EXTERIOR TO BE GALVANIZED OR STAINLESS STEEL

WOOD CONNECTOR SCHEDULE

MARK	MANUFACTURER	TYPE	SIZE	REMARKS
T1	SIMPSON	HETA16 w/ TSS vapor barrier	9 - 10d x 1-1/2" min. 4" embedment & 2" min edge distance	
T2	SIMPSON	2 - HETA16 w/ TSS vapor barrier	12 - 16d - half ea strap. Place one strap on each side of 2-ply truss girder min. 4" embedment & 2" min edge distance	

FOOTING SCHEDULE

MARK	SIZE	REINFORCEMENT
SF1.0	1'-0" X CONT. X 16"	2-#5 CONT. LW BOT 1-#5 CONT. LW TOP
WF1.5	1'-6" X CONT. X 12"	2-#5 CONT. LW BOT #5 @ 18" OC SW BOT

MASONRY WALL REINFORCING SCHEDULE

MARK	THICKNESS	VERT WALL REINF IN GROUTED CELL *	REMARKS
MW4.0	8"	#5 @ 48" OC CENTER IN CELL	GROUT SOLID 48" #5 VERTICAL TYP.
MW0.67EF	8"	#5 @ 8" OC EACH FACE	GROUT SOLID TYP. 8" #5 VERTICAL TYP.
MW1.33	8"	#5 @ 16" OC CENTER IN CELL	GROUT SOLID 16" #5 VERTICAL TYP.

VERTICAL MASONRY WALL REINFORCING TO HAVE STD HOOKED DOWELS INTO ROOF BEAM AT TOP OF WALL - TYPICAL

LAP #5 VERTICAL BARS 2'-7" U.N.O.

* PLUS ADDITIONAL REINFORCING AS INDICATED ON PLANS AS WELL AS PLACE VERTICAL WALL REINF AT ALL INTERSECTIONS, CORNERS, ENDS OF WALLS, WALL CONTROL JOINTS AND SIDES OF OPENINGS. PROVIDE FOOTING DOWELS TO MATCH. PROVIDE HOOKED DOWELS AT TOPS OF WALLS INTO UPPERMOST BEAMS. LAP REINFORCING 48 BAR DIAMETERS U.N.O. EXCEPT LAP #5 BARS 2'-7" MIN.

NOTE - GROUT ALL STEM WALLS BELOW GRADE SOLID.

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BORRELLI PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIORS
720 VASSAR STREET
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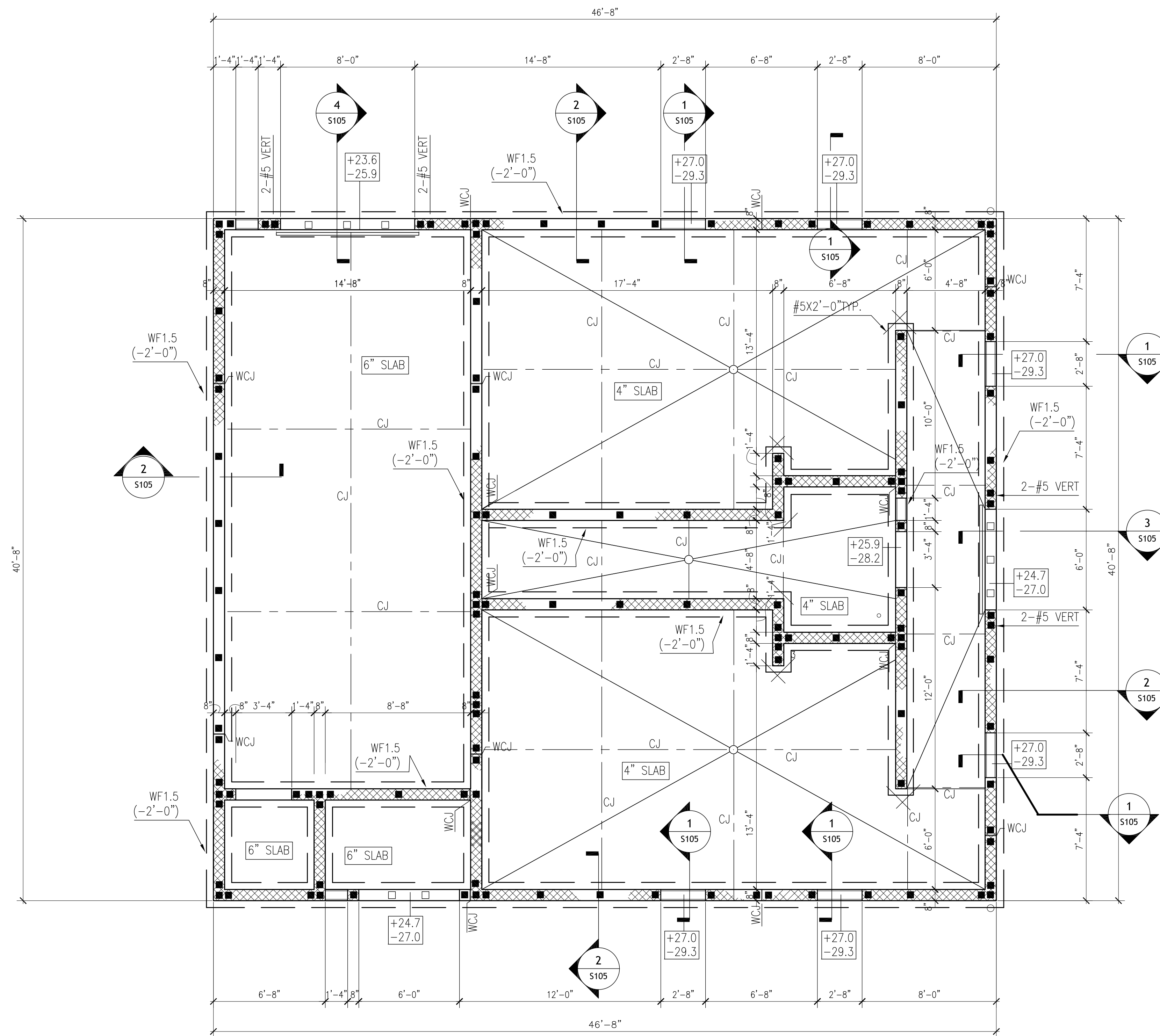
C. Louis
STRUCTURAL ENGINEERS
901 Douglas Avenue Suite 203
Altamonte Springs Florida 32714
407/869-5533
FL Certificate of Authorization No. 6453
CLOUISINC@AOL.COM

SCHEDULES

OWNER NAME AND ADDRESS
ORANGE COUNTY PARKS
400 E. SOUTH STREET
5TH FLOOR
ORLANDO, FLORIDA 32801

PROJECT NO.	PHASE	SCALE	FILE NAME	DRAWN BY	CHECKED BY	DATE
14-124	BID PERMIT DOCUMENTS	N.T.S.	CAD FILE	CLS	CLC	09-30-14

S-101



FLOOR CONSTRUCTION: 4" MINIMUM THICK SLAB ON GRADE WITH W.W.F. 6X6-W2.1XW2.1 ON 15 MIL OLEFIN VAPOR BARRIER WITH 6" OVERLAP ON TERMITE TREATED COMPACTED SOIL EXCEPT PROVIDE 6" MINIMUM THICK SLAB WITH W.W.F. 6X6-W2.9XW2.9 AT STORAGE, CLOSET, AND ELECTRIC ROOMS. F'c28 = 4,000 PSI

TOP OF SLAB REFERENCE ELEVATION = 0'-0"

TOP OF FOOTING ELEVATION -2'-0" UNLESS OTHERWISE NOTED.

■ INDICATES #5 VERTICAL MASONRY WALL REINFORCING-SEE MASONRY WALL REINFORCING SCHEDULE ON S101 FOR REINFORCING IN ADDITION TO THAT SCHEDULED. REINF. WALLS ACCORDING TO MW4.0 U.N.O.

□ INDICATES #5 VERTICAL MASONRY WALL REINFORCING @ 2'-0" OC MAX SPACING BELOW AND ABOVE OPENING.

MASONRY WALLS ARE 8" NORMAL WT BLOCK TYPICAL

ALL MASONRY STEM WALLS BELOW GRADE ARE TO BE GROUTED SOLID.

DIMENSIONS SHOWN ON STRUCTURAL FOR REFERENCE ONLY-SEE ARCHITECTURAL DWGS FOR DIMENSIONS-IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.

SEE FOR TYPICAL SLAB AND STEP FOOTING DETAILS.

WCJ INDICATES MASONRY WALL CONTROL JOINT - SEE DETAIL - COORDINATE LOCATIONS WITH ARCHITECT.

SEE S101 FOR MASONRY WALL LINTEL SCHEDULE. [MW-X] INDICATES TYPE. SEE S101 FOR CONCRETE TIE BEAM SCHEDULE. [CB-X] INDICATES TYPE.

SEE ARCHITECTURAL DWGS FOR DIMENSIONS OF DEPRESSED SLAB AREAS TYPICAL.

SEE PLUMBING PLANS FOR FLOOR DRAIN LOCATIONS - SLOPE SLAB TO DRAINS.

PROVIDE HOUSEKEEPING PADS AT EQUIPMENT AS PER MECHANICAL AND PLUMBING DWGS. AND SPECIFICATIONS.

CONTRACTOR TO COORDINATE TOP OF FOOTING ELEVATION AND FOOTING STEP LOCATIONS WITH CIVIL, MECHANICAL, ELECTRICAL AND PLUMBING PIPING AND CONDUIT-TO PASS THRU MASONRY STEM WALL ABOVE FOOTING. PROVIDE LINTELS IN MASONRY STEM WALL AT PIPING AND CONDUIT AS REQUIRED.

COMPONENT NOMINAL (ASD) WIND LOAD ON OPENINGS

+24.5 INDICATES COMPONENT WIND LOAD ON OPENINGS IN PSF
-26.7 + INDICATES PRESSURE ; - INDICATES SUCTION

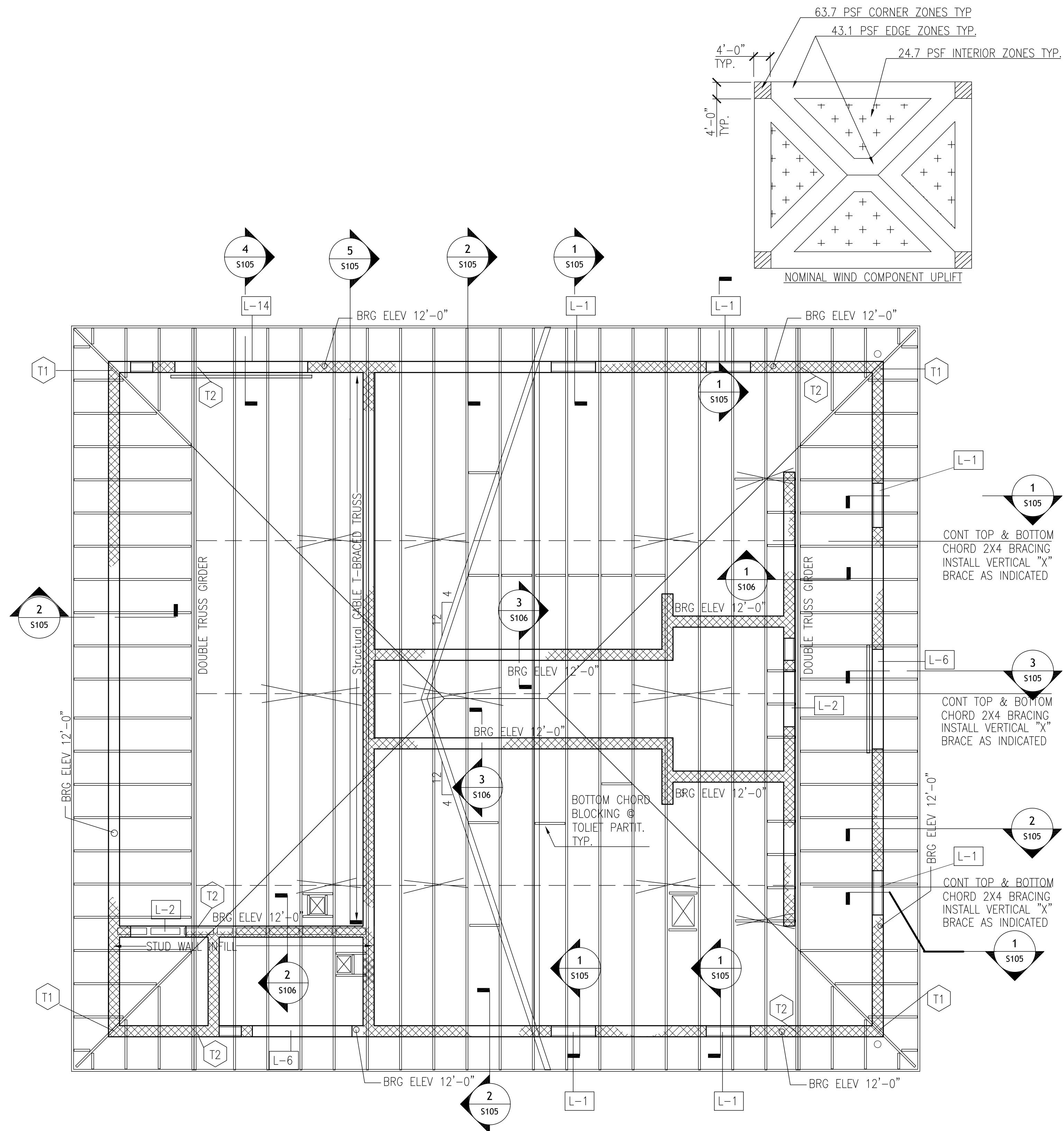
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PROJECT NO. 14-124		DATE 11-14-14		PROJECT ADDRESS		DRAWING TITLE		CONSULTANTS		SIGNATURE AND DATED SEAL	
PHASE	14-124	DESCRIPTION	DATE	PROJECT ADDRESS	DRAWING TITLE	CONSULTANTS	SIGNATURE AND DATED SEAL	C. Louis STRUCTURAL ENGINEERS 901 Douglas Avenue Suite 203 Altamonte Springs Florida 32714 407/869-5533 FL Certificate of Authorization No. 6453 CLOUISINC@AOL.COM			
SCALE	1/4"=1'-0"	OWNER NAME AND ADDRESS	ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801								
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STRUCTURAL ENGINEERS
901 Douglas Avenue
Suite 203
Altamonte Springs
Florida 32714
407/869-5533
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CLOUISINC@AOL.COM

Chad L. Chulavkas #39251



1 ROOF FRAMING PLAN
1/4"=1'-0"

ROOF CONSTRUCTION: 5/8" THICK CDX EXTERIOR PLYWOOD SHEATHING ON PREMANUFACTURED WOOD TRUSSES SPACED AT 2'-0" ON CENTER MAXIMUM. ATTACH SHEATHING WITH 8d GALV RING-SHANKED NAILS SPACED AT 4" ON CENTER AT EDGES AND 6" ON CENTER AT INTERMEDIATE SUPPORTS.

INSTALL 2X4 TRUSS BOTTOM CHORD BLOCKING TO BRACE TOILET PARTITIONS.
PROVIDE VAPOR BARRIER AT TRUSS BEARING ON MASONRY - TYPICAL.

PRE-MANUFACTURED WOOD TRUSS DESIGN LOADS:

TOP CHORD:
DL: 11 PSF
LL: 20 PSF
31 PSF

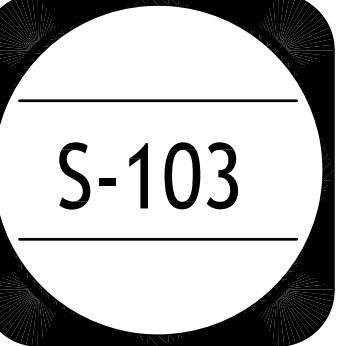
BOTTOM CHORD:
DL: 19 PSF
LL: 0 PSF
19 PSF
50 PSF TOTAL DESIGN LOAD

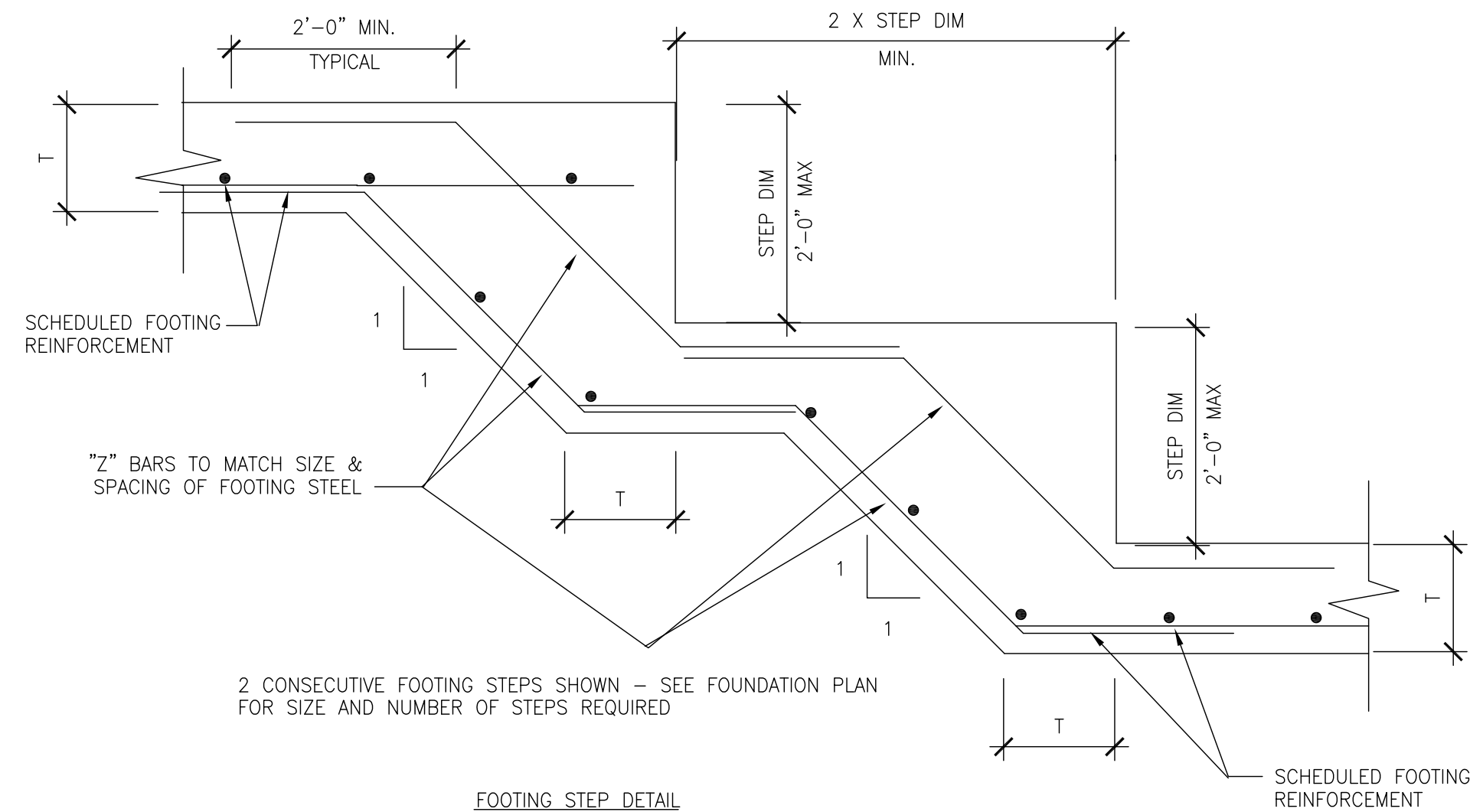
INSTALL PLYWOOD WITH A MINIMUM 2'-0" OFFSET IN PLYWOOD JOINTS.
PLYCLIPS SHALL BE USED BETWEEN ALL UNSUPPORTED EDGES OF PLYWOOD ROOF DECK. INSTALL ONE (1) PER SPAN.
PLYWOOD ROOF DECK SHALL BE INSTALLED WITH THE LONG DIMENSION PERPENDICULAR TO ROOF TRUSSES.
SEE ARCHITECTURAL DRAWINGS FOR OPENING DIMENSIONS AND LOCATIONS.
ALL ROOF FASTENERS AND CONNECTORS TO BE GALVANIZED OR STAINLESS STEEL.
T1 TYPICAL ROOF TRUSS ANCHOR EXCEPT AS NOTED SEE SCHEDULE ON SHEET S101.

[L-X] INDICATES PRECAST CONCRETE LINTEL. PRECAST LITELS ARE TO BE POURED COMPOSITE WITH CONTINUOUS BOND BEAMS. SEE SCHEDULES ON SHEET S101.
PROVIDE CONTINUOUS 8X16 MASONRY BOND BEAM WITH 2-#5 TOP AND BOTTOM AT TOPS OF ALL WALLS & CONTINUOUS 8X16 BOND BEAM WITH 2-#5 TOP AND BOTTOM, WITH BOTTOM OF BOND BEAM AT ELEV 7'-4" UNLESS INDICATED OTHERWISE.
PROVIDE 90 DEGREE HOOKED DOWELS AT FILL CELLS AT TOP OF MASONRY WALLS TYPICAL.

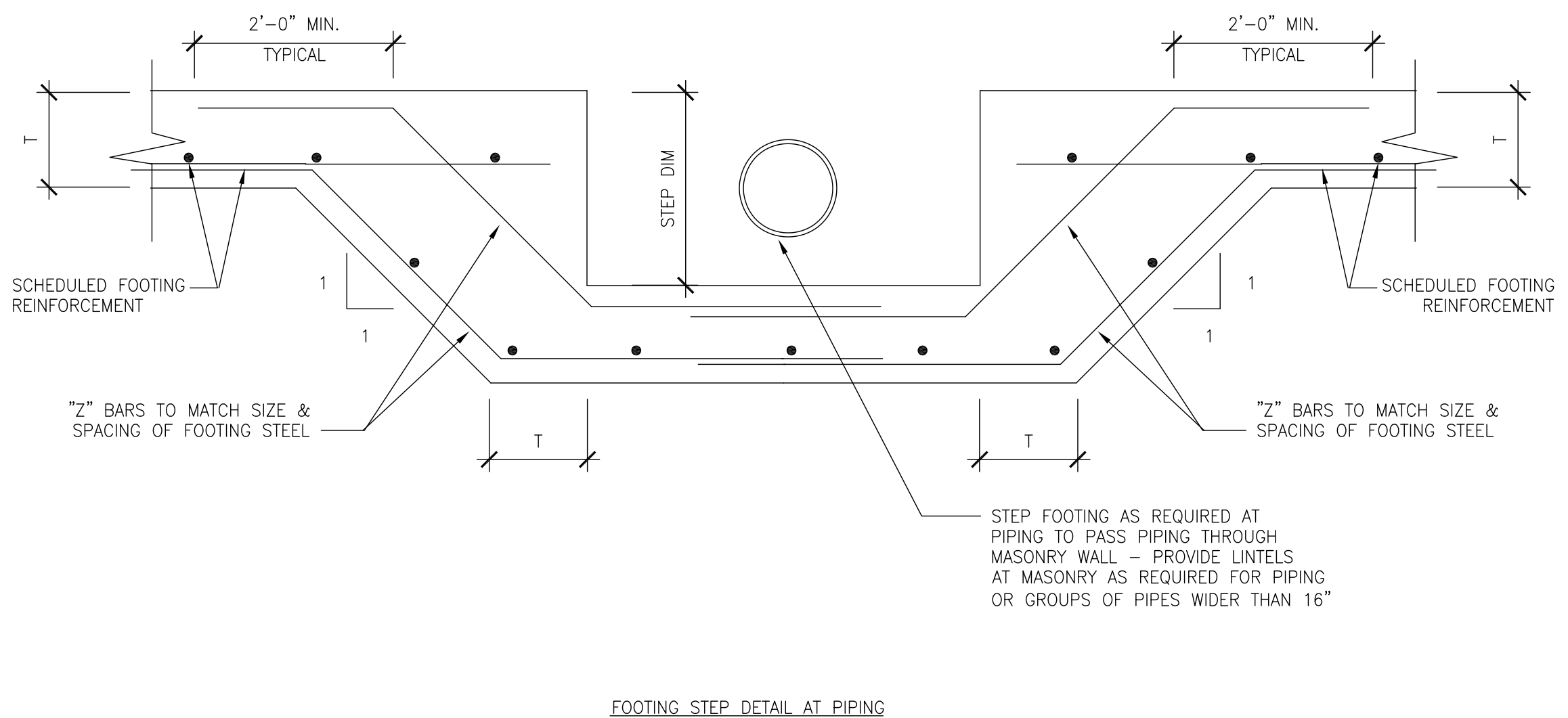
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ORANGE COUNTY PARKS				STRUCTURAL ENGINEERS		ARCHITECTURE, PLANNING, LANDSCAPE INTERIORS	
400 E. SOUTH STREET				901 Douglas Avenue		770 VASSAR STREET	
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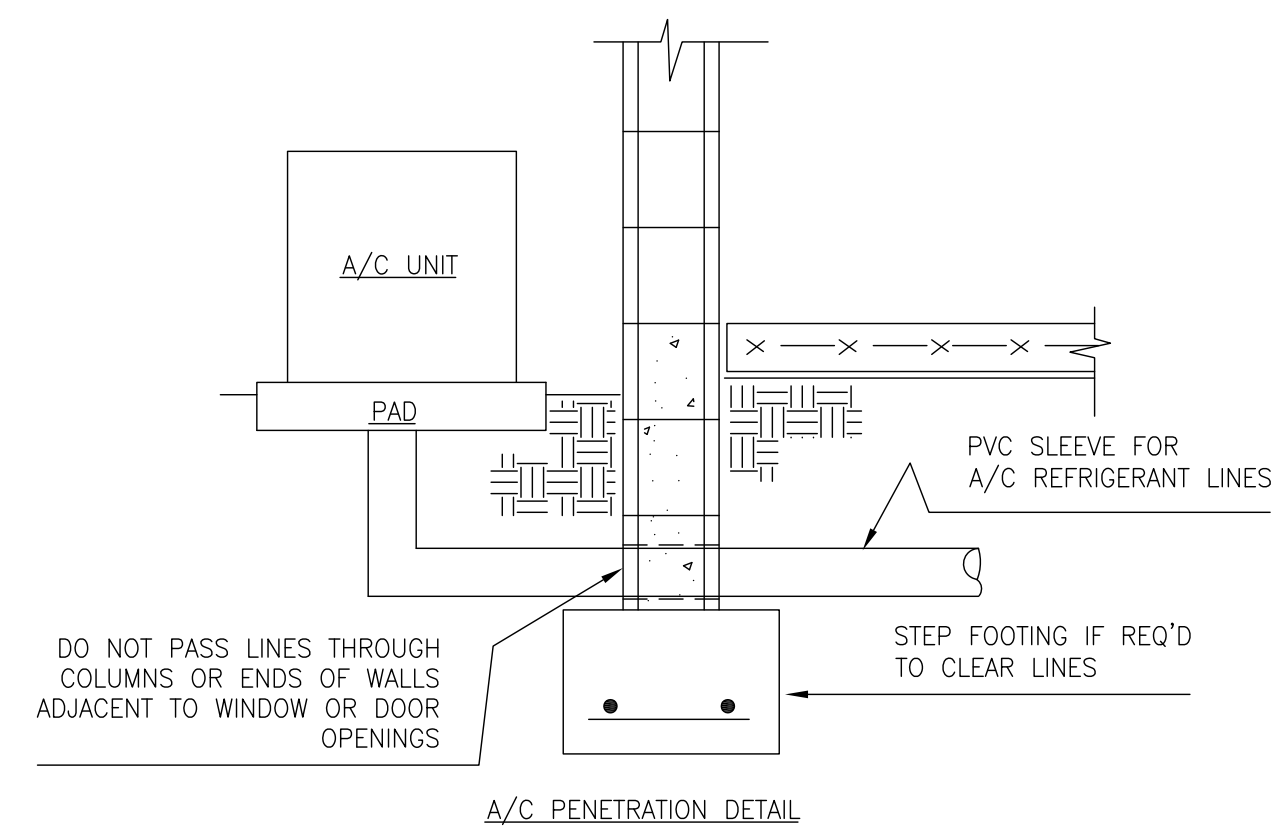




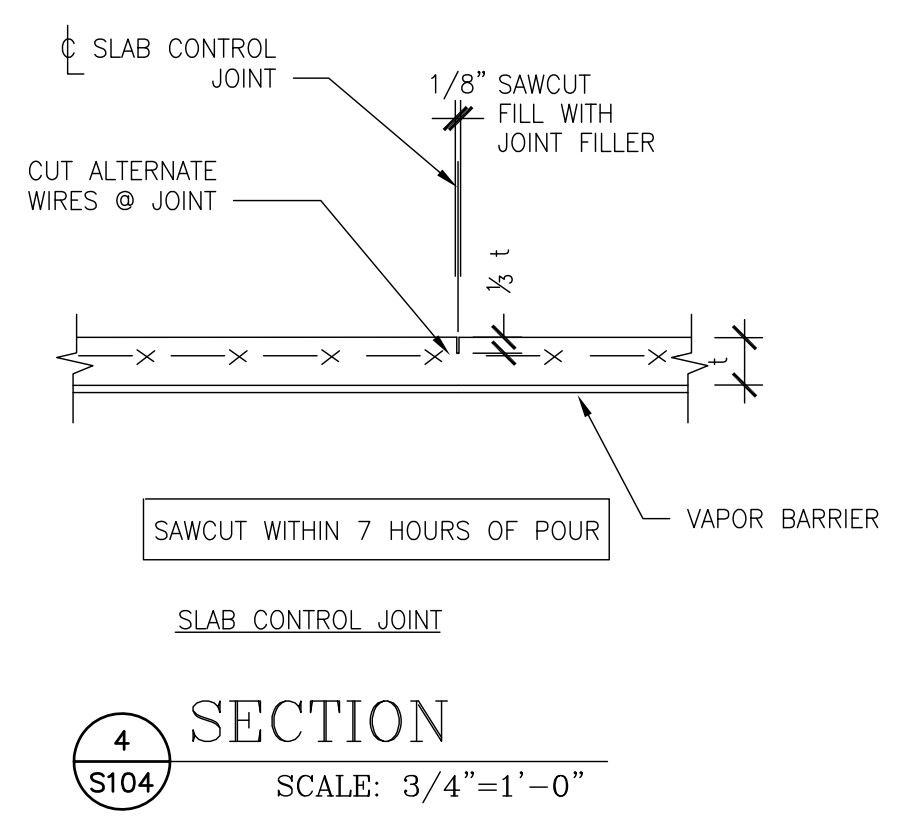
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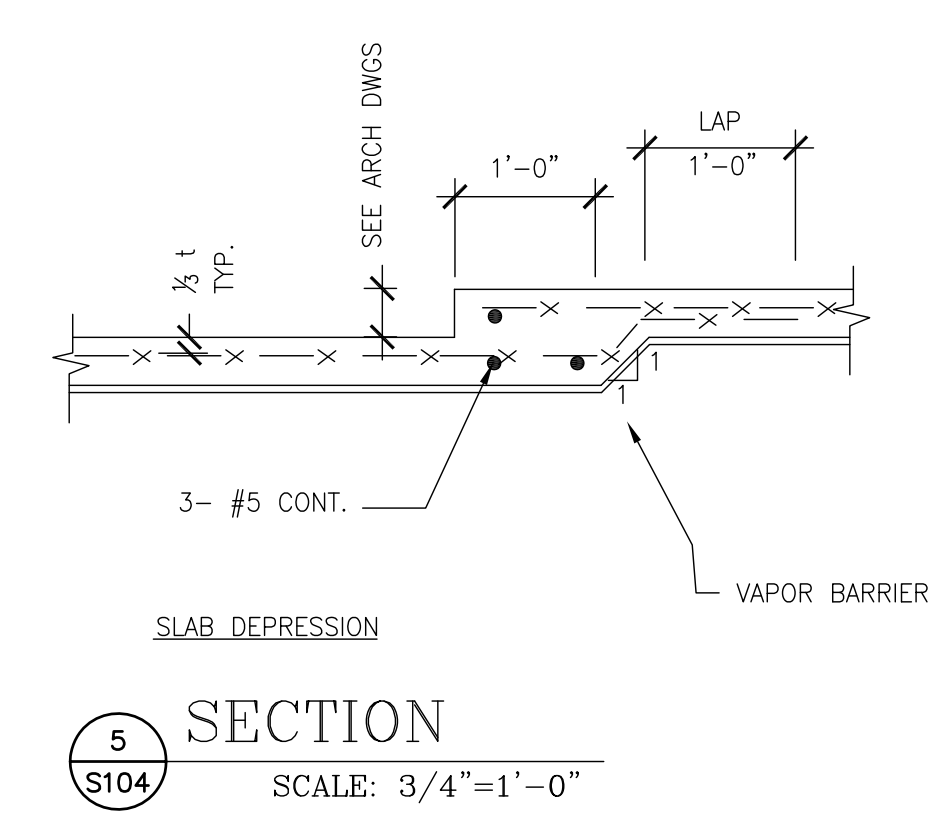
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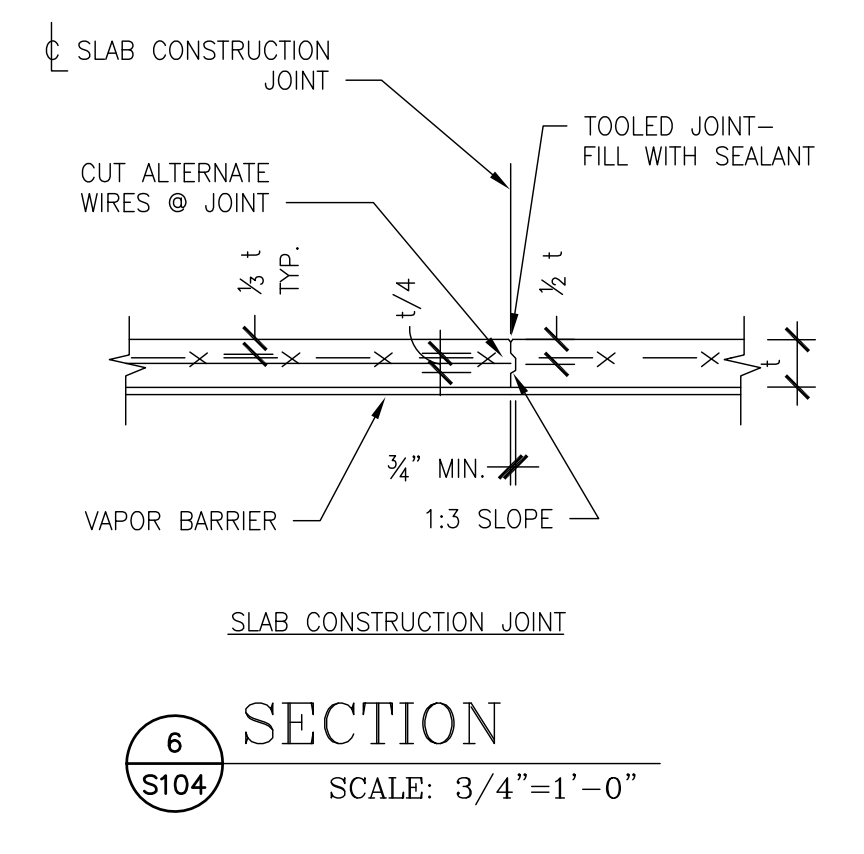
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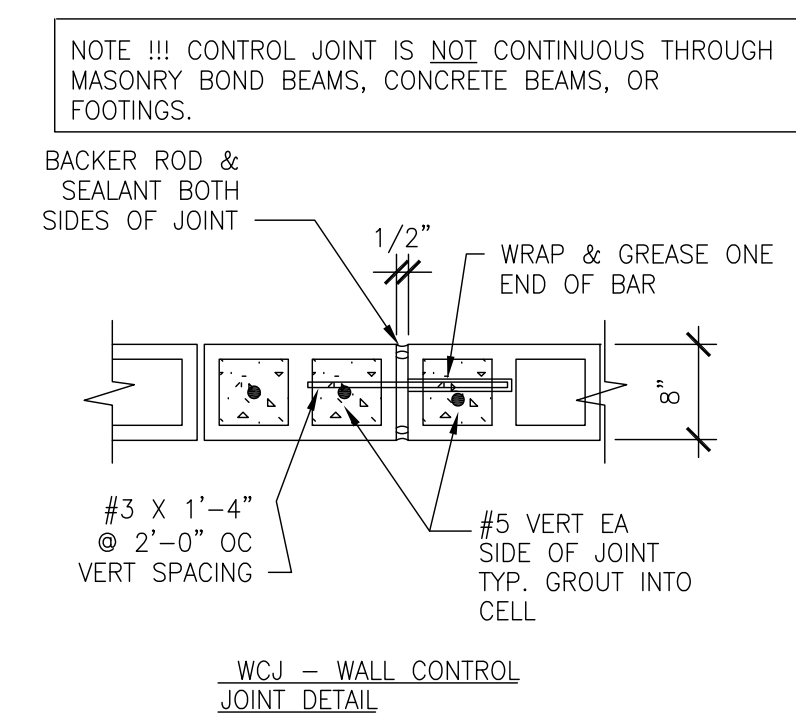
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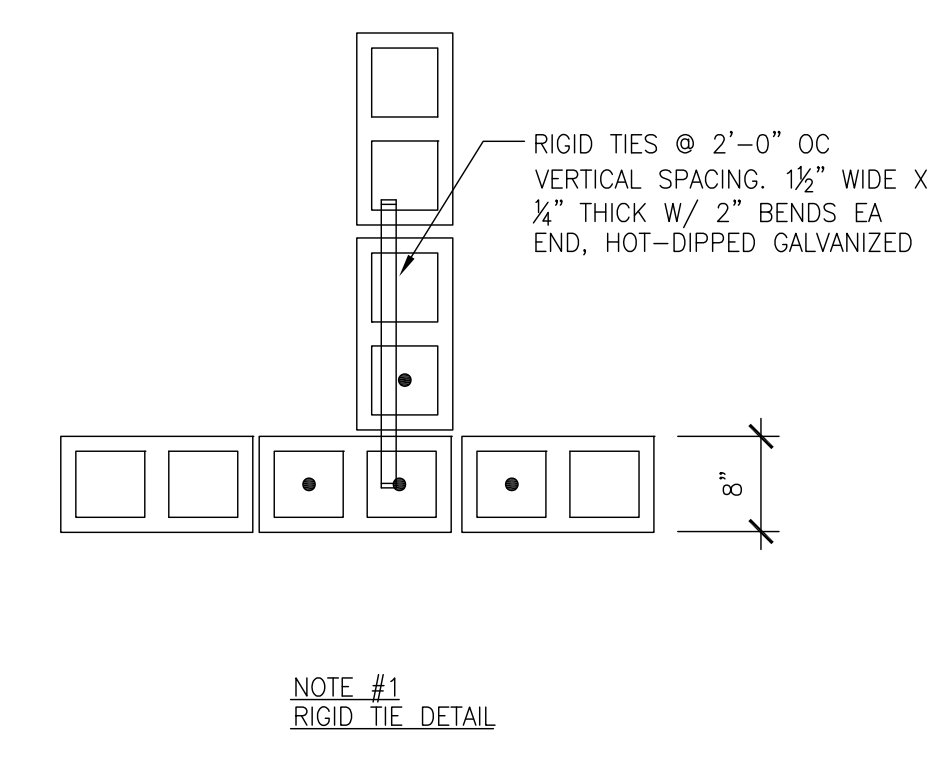
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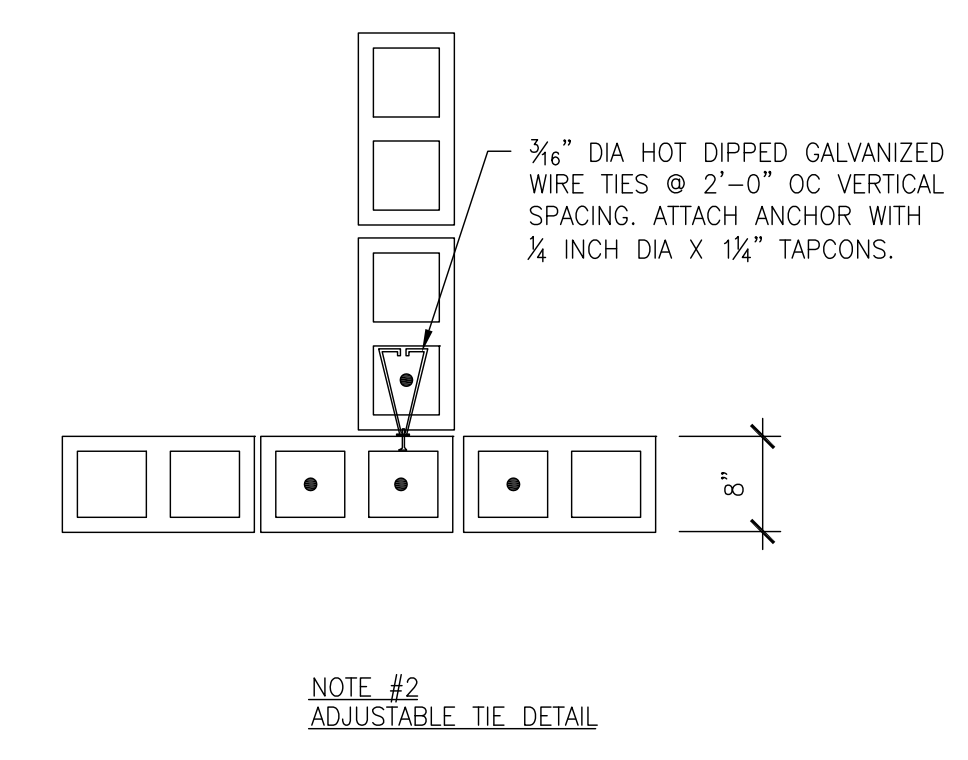
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SECTION 7
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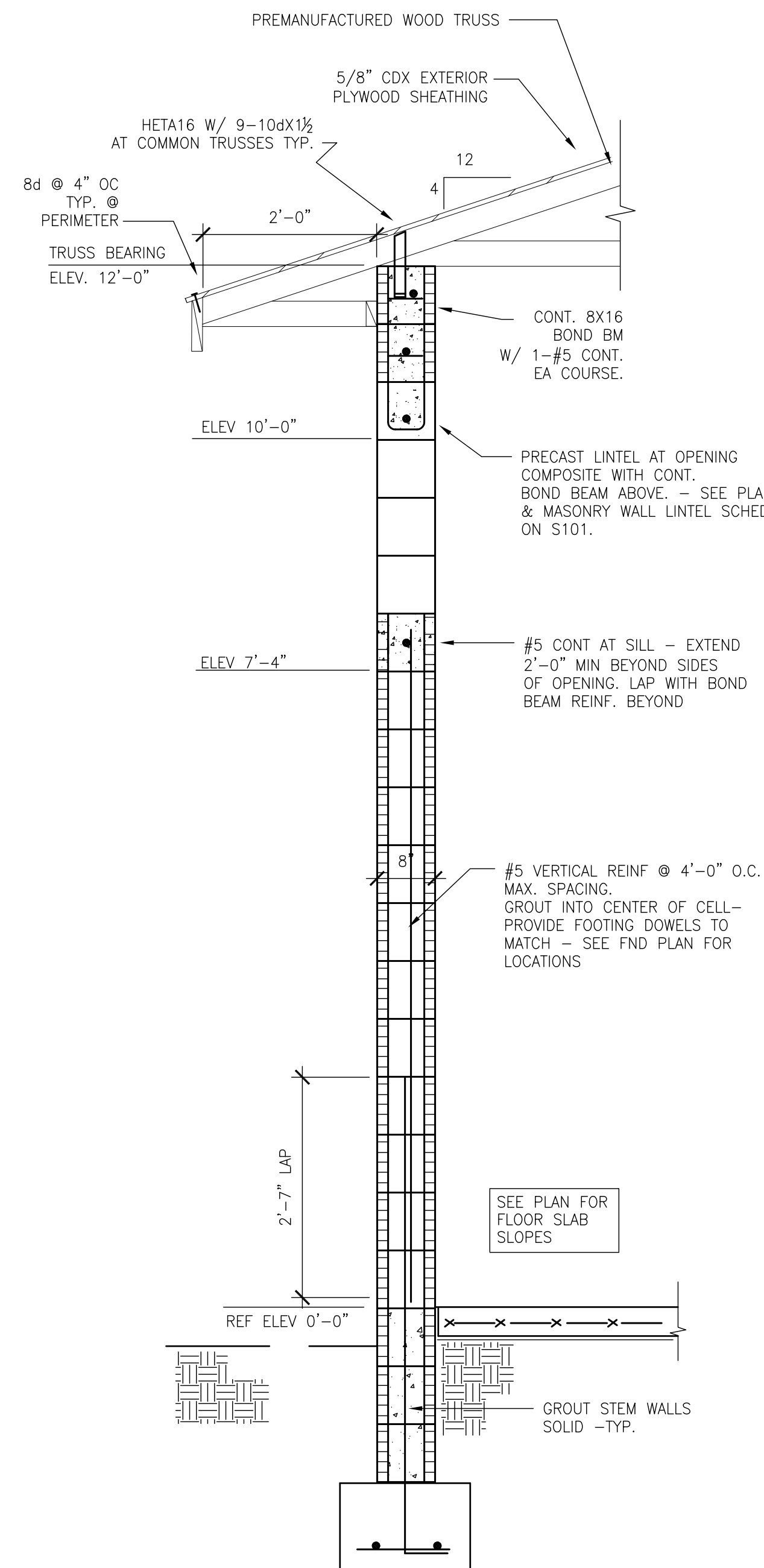
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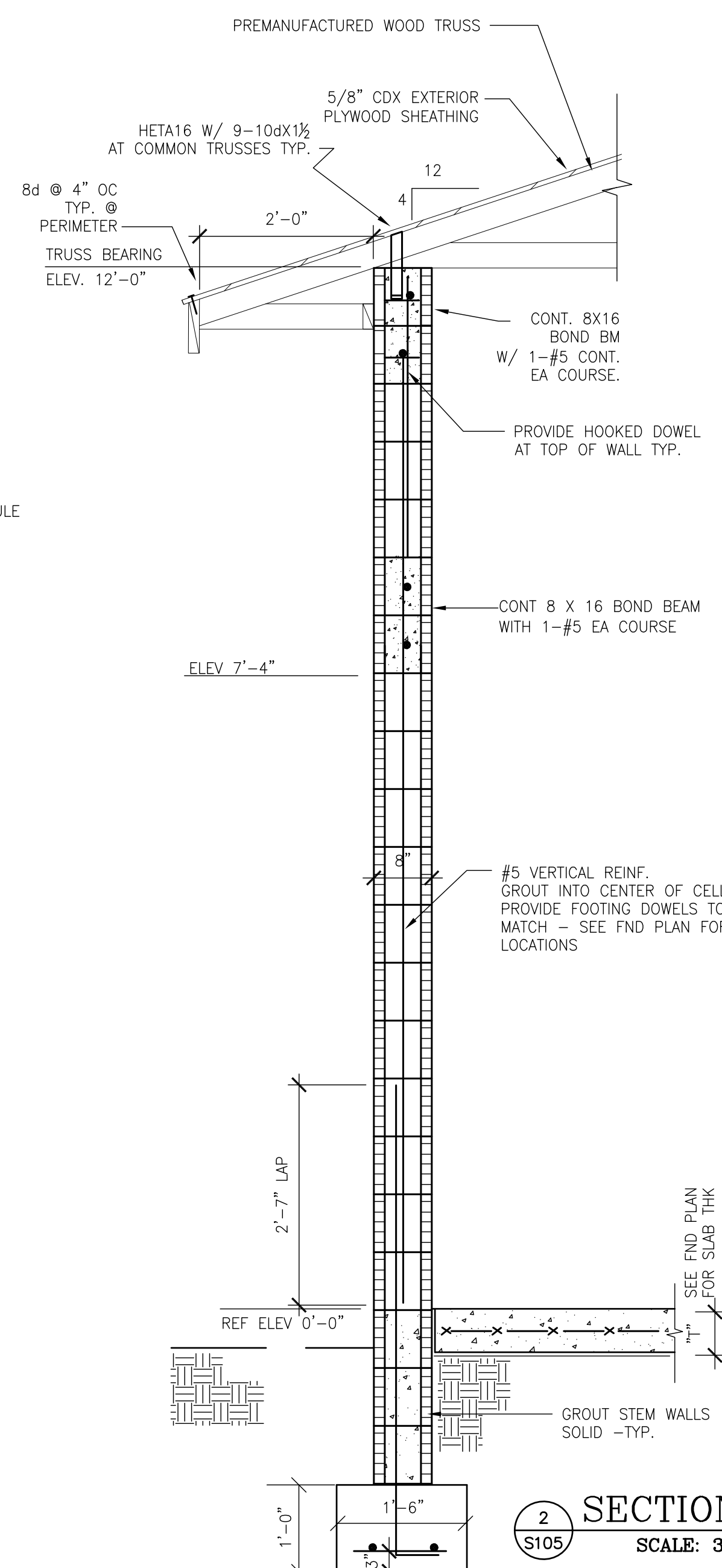
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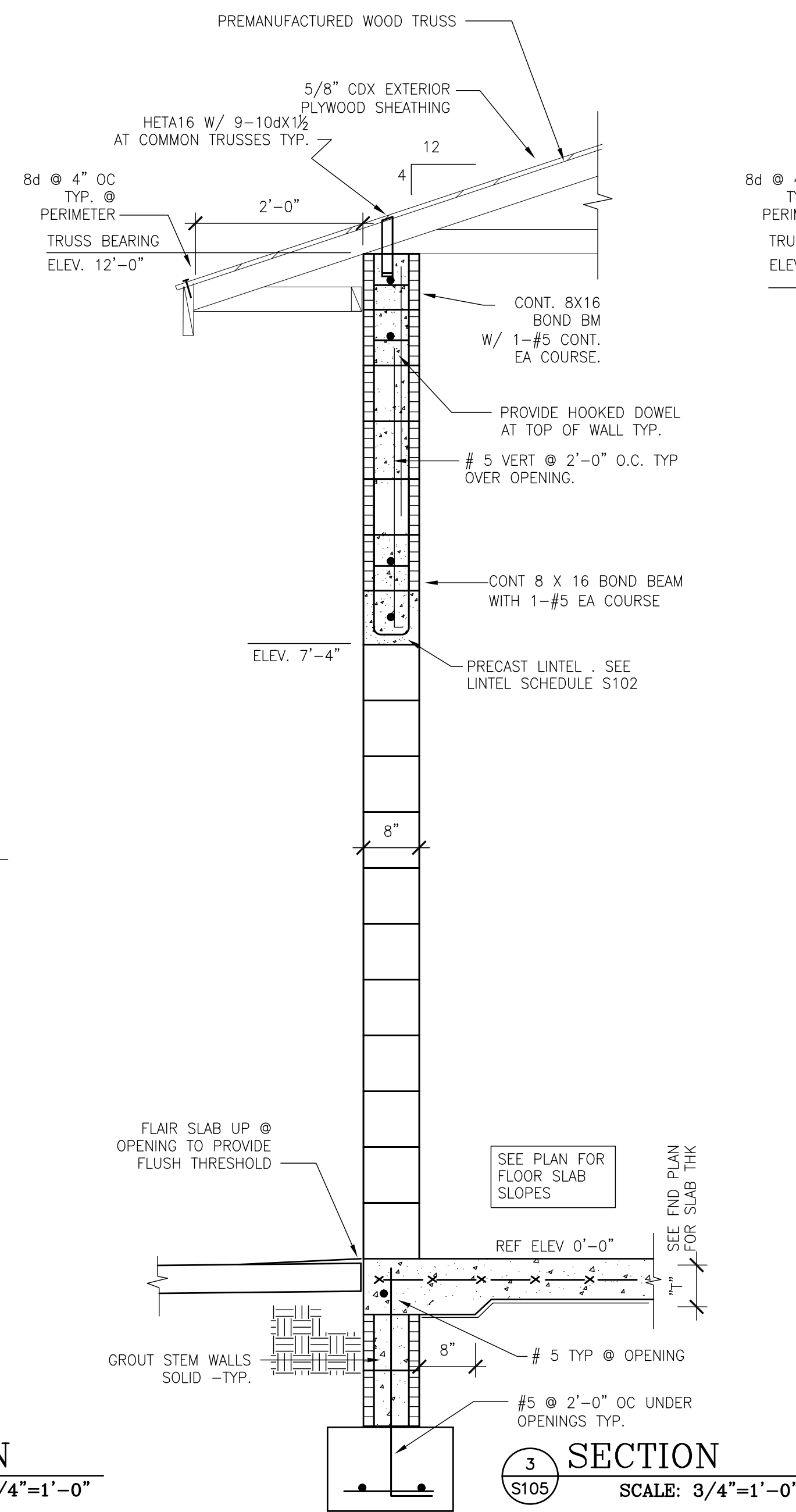
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PROJECT NO. 14-124 PHASE BIFERMIT DOCUMENTS SCALE N.T.S. FILE NAME CAD FILE DRAWN BY CLS CHECKED BY CLC DATE 09-30-14	PROJECT ADDRESS 	DATE 	REV. 	DESCRIPTION 	DATE



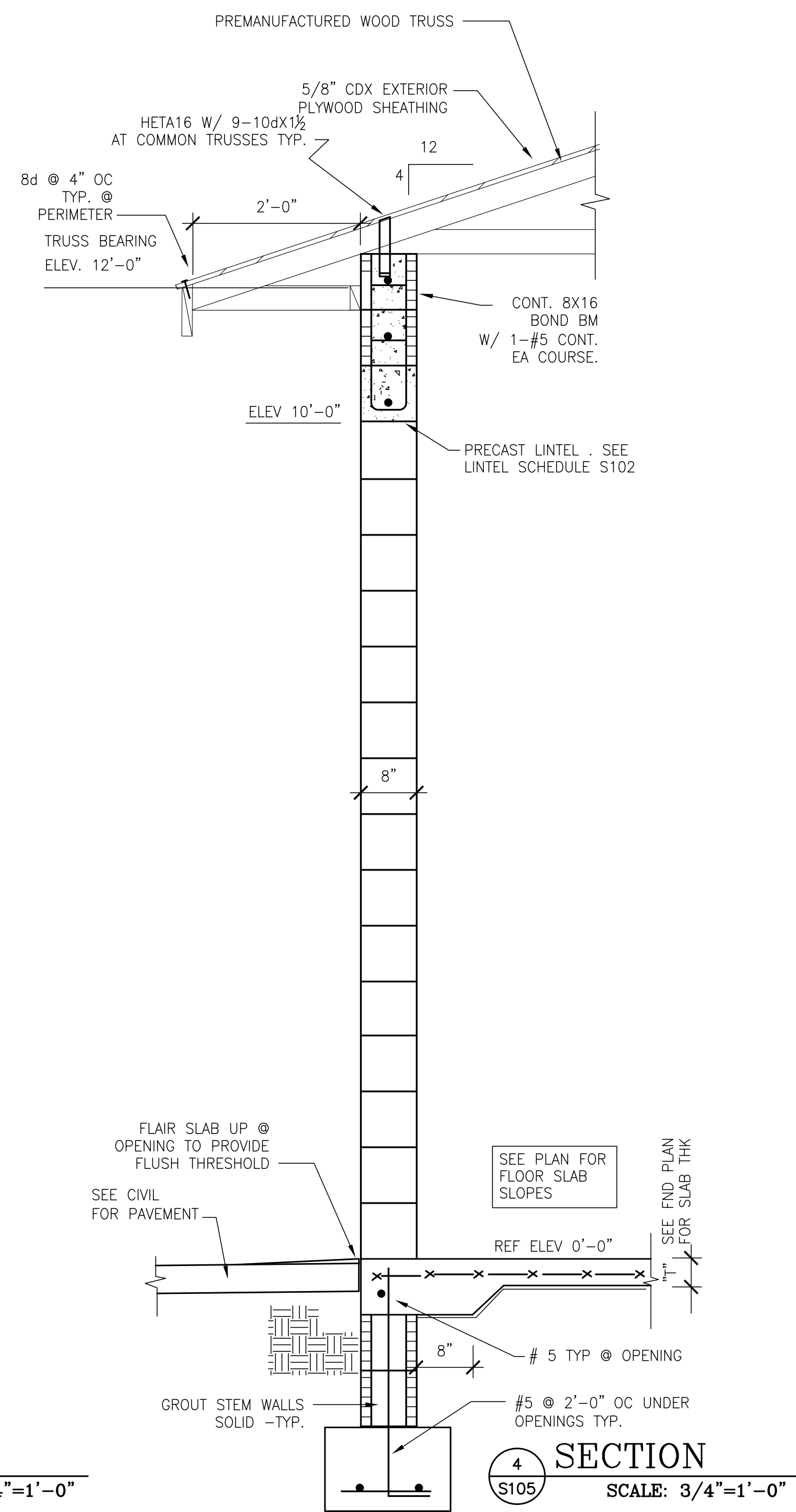
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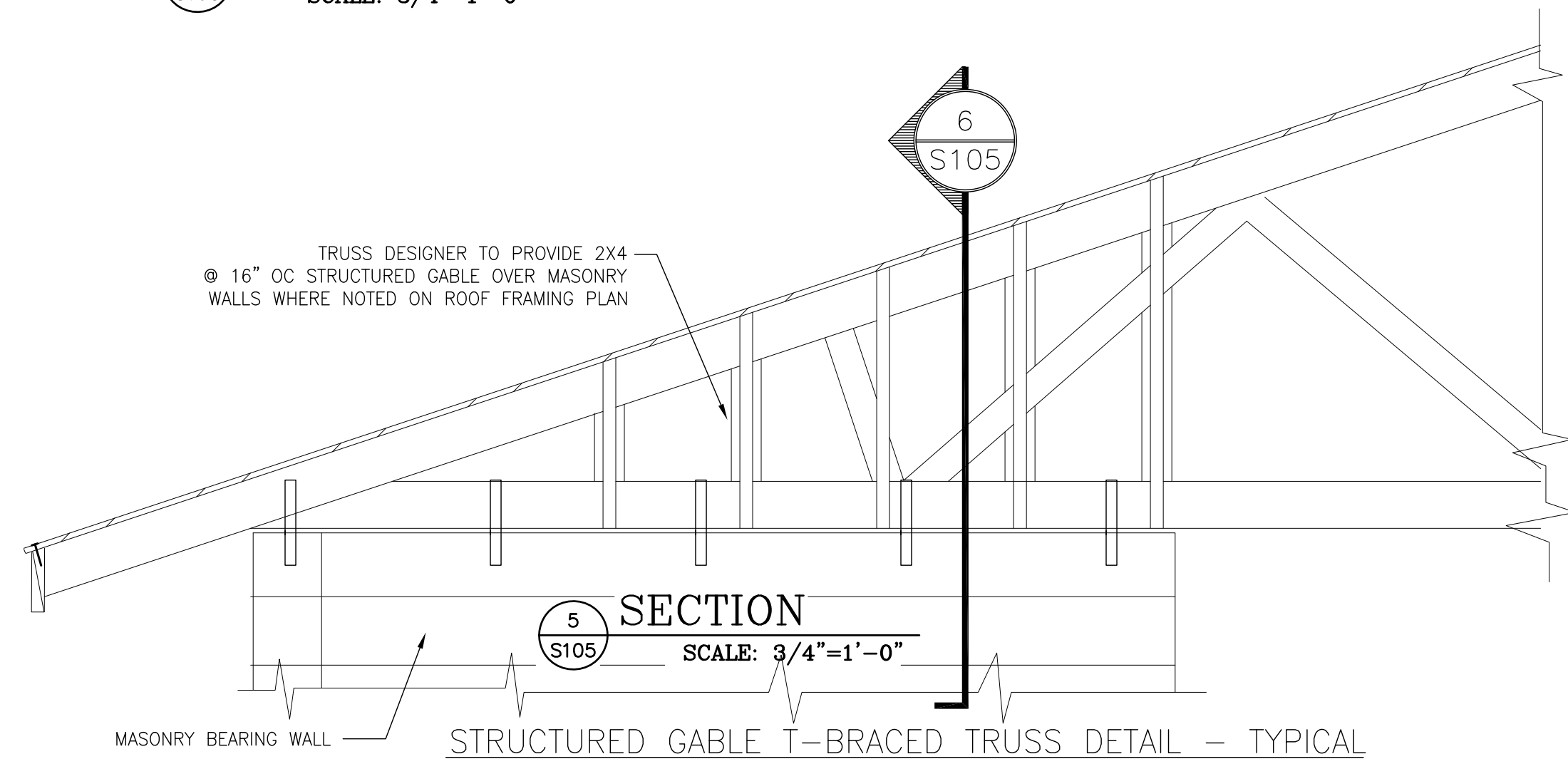
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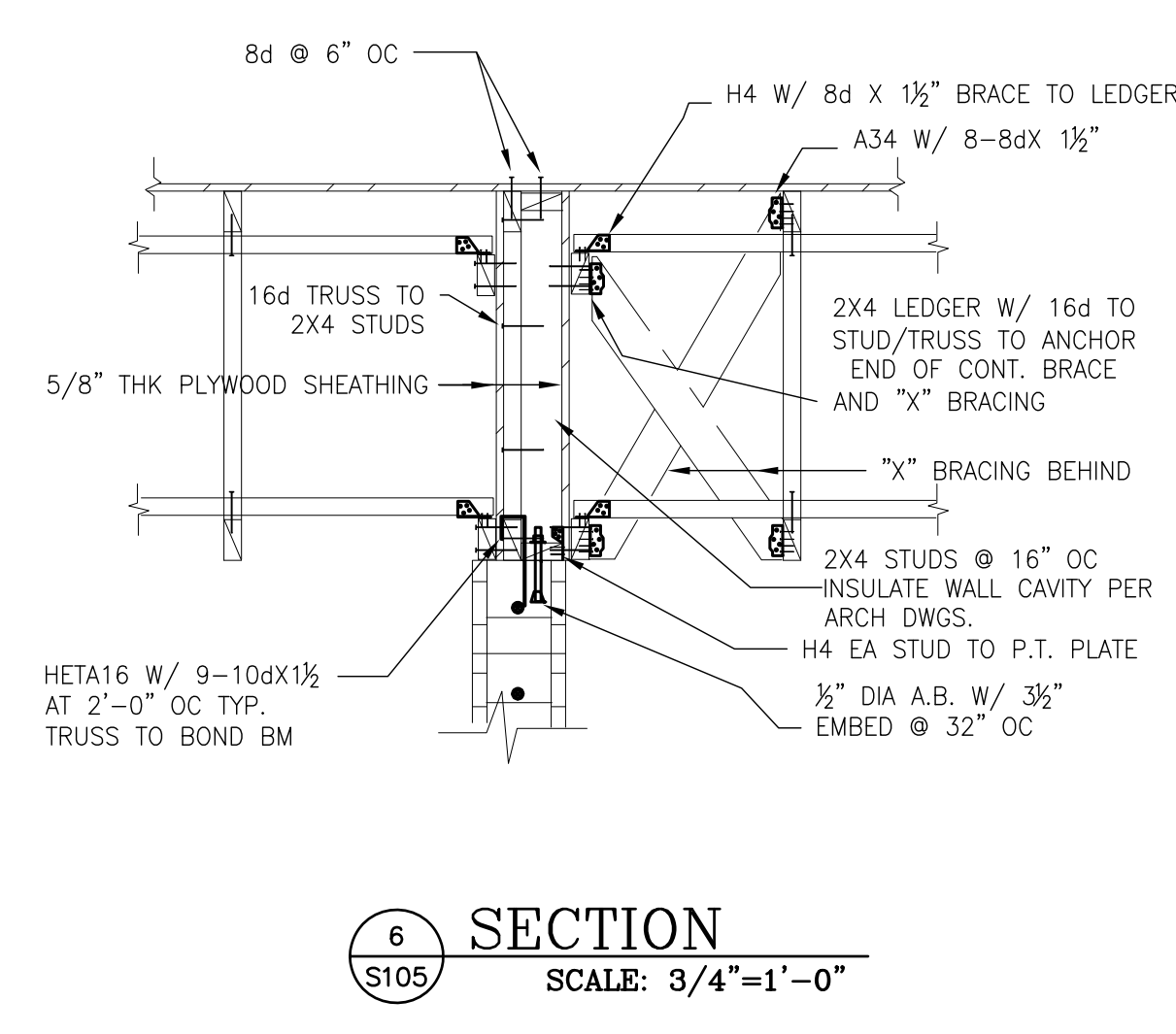
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4 SECTION
S105 SCALE: 3/4"=1'-0"



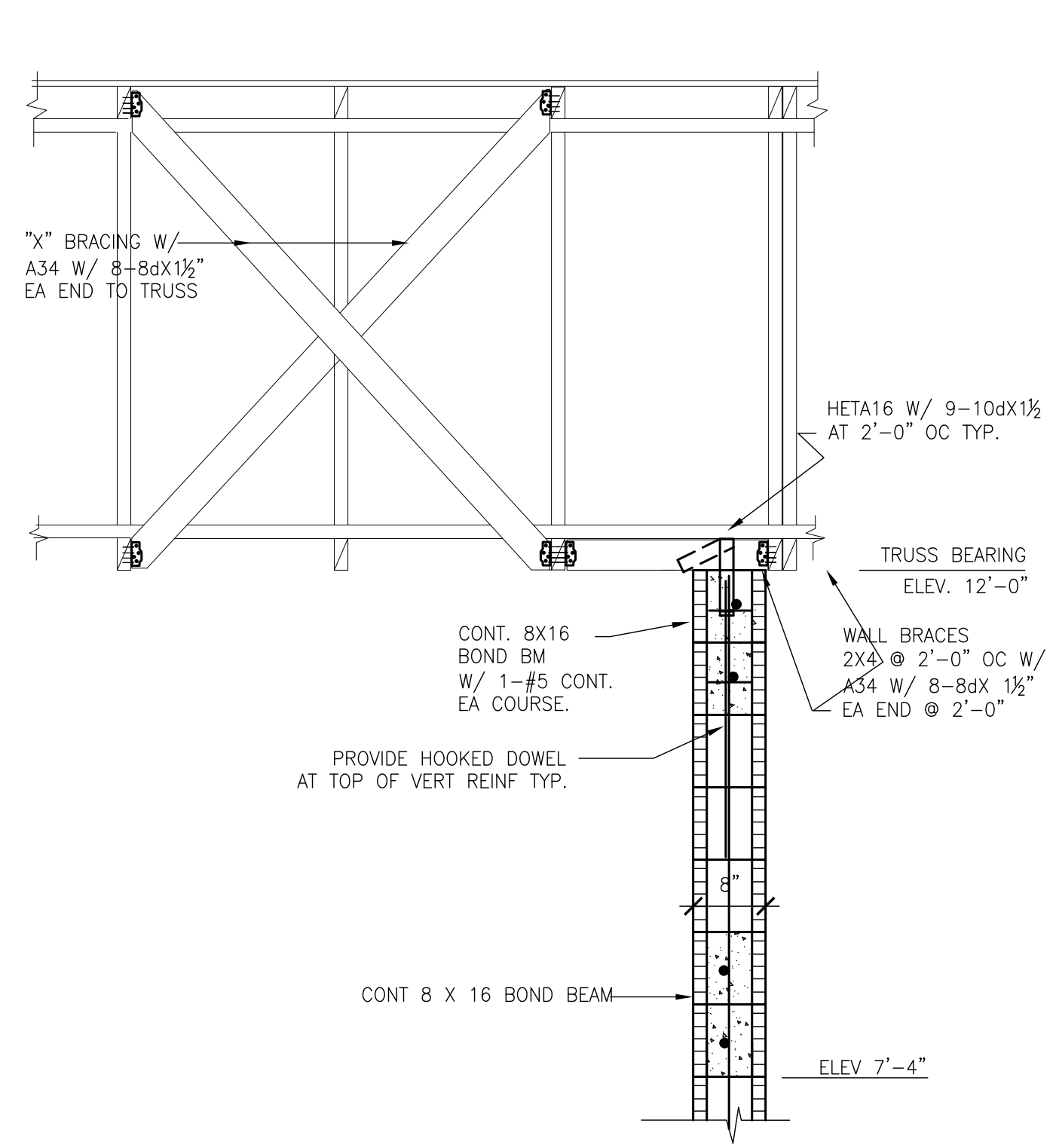
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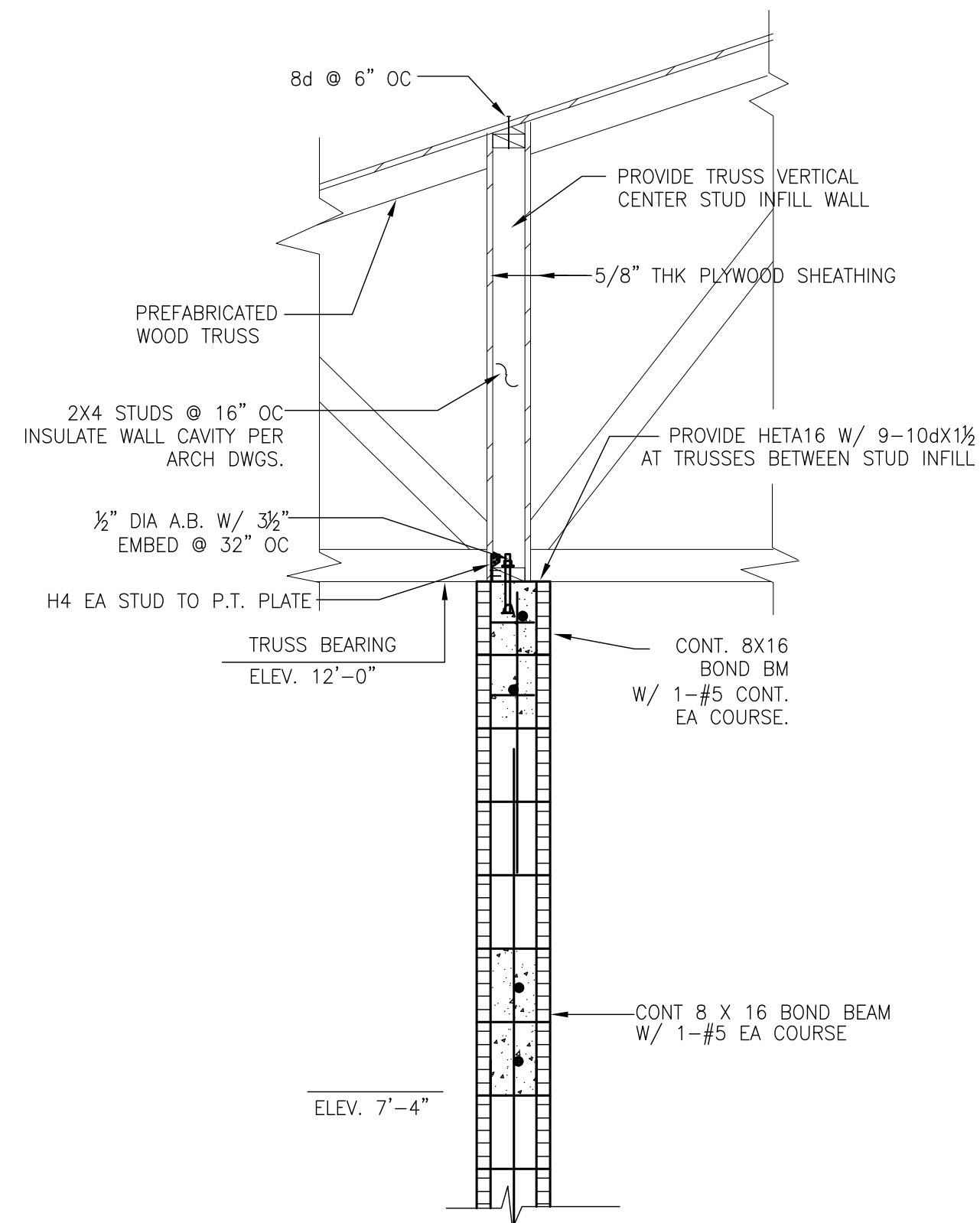
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OCP JOHN YOUNG PARK: STORAGE AND RESTROOM BUILDING

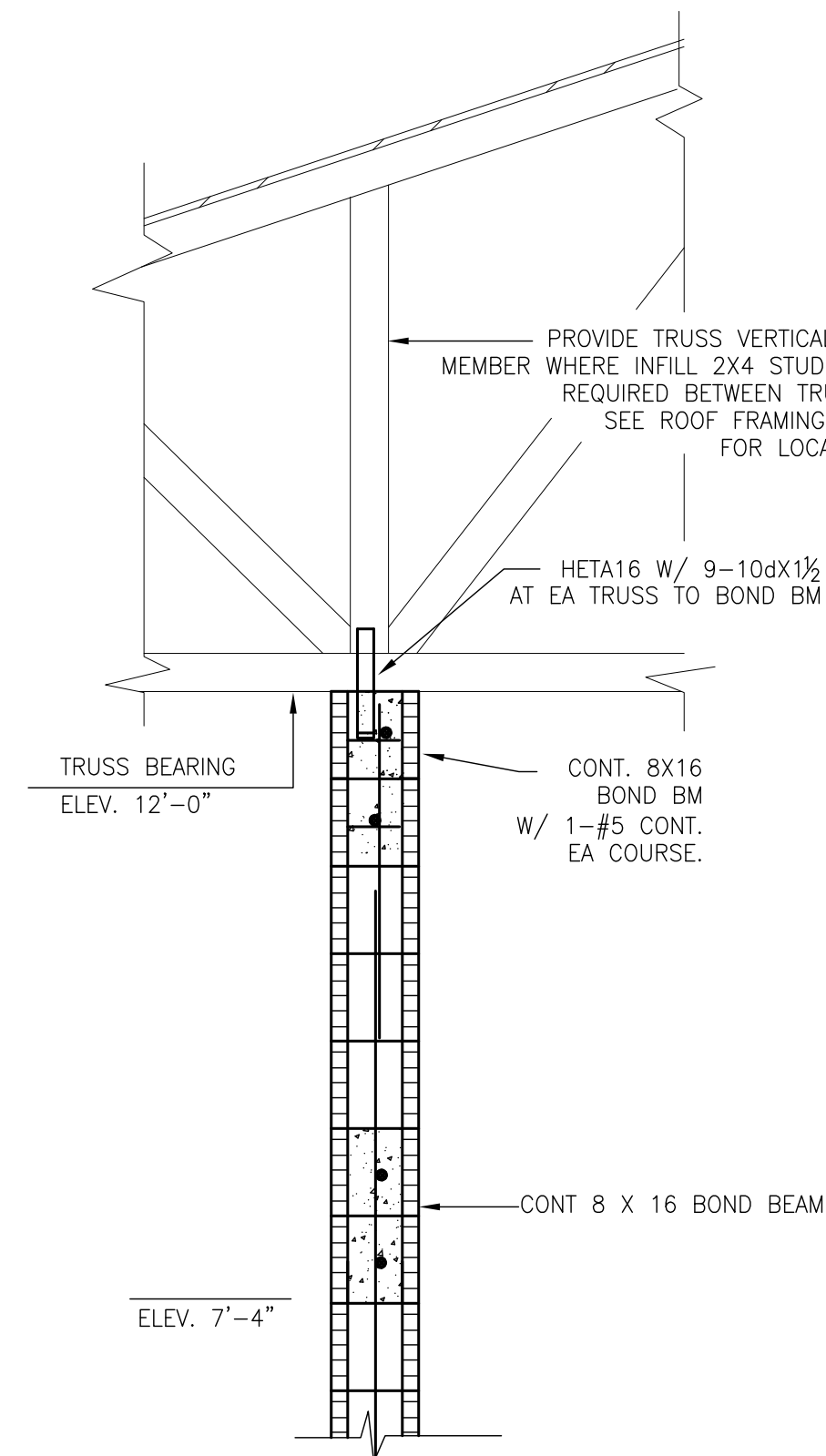
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 901 Douglas Avenue Suite 203 Altamonte Springs Florida 32714 407/869-5533 FL Certificate of Authorization No. 6453 CLOUISINC@AOL.COM	SIGNATURE AND DATED SEAL CONSULTANTS
SECTIONS & DETAILS	
DRAWING TITLE	PROJECT ADDRESS
PROJECT NO. 14-124 PHASE PERMIT DOCUMENTS SCALE N.T.S. FILE NAME CAD FILE DRAWN BY CJS CHECKED BY CLC DATE 09-30-14	DATE DESCRIPTION REV.
OWNER NAME AND ADDRESS ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801	



1 SECTION
S106 SCALE: 3/4"=1'-0"



2 SECTION
S106 SCALE: 3/4"=1'-0"



3 SECTION
S106 SCALE: 3/4"=1'-0"

OCP JOHN YOUNG PARK: STORAGE AND RESTROOM BUILDING

PROJECT NO.	PHASE	SCALE	FILE NAME	DRAWN BY	CHECKED BY	DATE	REV.	DESCRIPTION	DATE	PROJECT ADDRESS	DRAWING TITLE	CONSULTANTS	SIGNATURE AND DATED SEAL
14-124	PERMIT DOCUMENTS	N.T.S.	CAD FILE	CLS	CLC	09-30-14				ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801	SECTIONS & DETAILS	C. LOUIS STRUCTURAL ENGINEERS 901 Douglas Avenue Suite 203 Altamonte Springs Florida 32714 407/869-5533 FL Certificate of Authorization No. 6453 CLOUISINC@AOL.COM	BORRELLI PARTNERS ARCHITECTURE, PLANNING, LANDSCAPE INTERIORS 720 VASSAR STREET ORLANDO, FL 32804 (407) 418-1338 #39251 Chrida L. Chulavika

ABBREVIATIONS

AB ANCHOR BOLTS	FD FLOOR DRAIN	PC PORTLAND CEMENT
AC or A/C AIR CONDITIONING	FE FIRE EXTINGUISHER	PL PLATE
ACOUS ACoustICAL	FH FULL HEIGHT	PLYWD PLYWOOD
ABV ABOVE	FEC FIRE EXTINGUISHER	PR PAIR
AD ACCESS DOOR	CABINET	PREP PREPARATION
AFF ABOVE FINISHED FLOOR	FIN FINISH	PROJ PROJECTION
ALUM ALUMINUM	FLR FLOOR	PT PRESSURE TREATED
APPR APPROVED	FO FINISHED OPENING	QT QUARRY TILE
BD or BRD BOARD	FOC FACE OF CONCRETE	
BLDG BUILDING	FOS FACE OF STUD	
BLK BLOCK	FOUND FOUNDATION	R RISER
BM BEAM	FWW FACE OF WALL	RD RADIUS
BOB BOTTOM OF BEAM	FS FLOOR SINK	RD ROOF DRAIN
BOT BOTTOM	FT FEET	REF REFERENCE
	GA GAUGE	REFL REFLECTED
C/C CENTER TO CENTER	GALV GALVANIZE	REINF REINFORCE
CEM CEMENT	GL GLASS	REQ'D REQUIRED
CER CERAMIC	GR GRADE	REV REVERSE
CH CEILING HEIGHT	GYP BD GYPSUM BOARD	RM ROOM
CJ CONTROL JOINT	GWB	RO ROUGH OPENING
CLG or CEILING		SCWD SOLID CORE WOOD DOOR
CLO CLOSET	HDWD HARDWOOD	SECT SECTION
CLR CLEAR	HM HOLLOW METAL	SHT SHEET
CMU CONCRETE MASONRY UNIT	HORIZ HORIZONTAL	SIM SIMILAR
COL COLUMN	ID INSIDE DIAMETER	SIMUL SIMULATED
COMP COMPOSITION	INSUL INSULATION	SPECS SPECIFICATIONS
CONC CONCRETE	INT INTERIOR	SQ SQUARE
CONN CONNECTION	JAN JANITOR	SS STAINLESS STEEL
CONT CONTINUOUS	LAV LAVATORY	STD STANDARD
CORR CORRIDOR	LEV LEVEL	STL STEEL
CSK COUNTERSINK	LITG LIGHTING	STRUCT STRUCTURAL
	LT WT LIGHT WEIGHT	SUSP SUSPENDED
DBL DOUBLE	MAINT MAINTENANCE	SYM SYMMETRICAL
DF DRINKING FOUNTAIN	MATL MATERIAL	T TREAD
DIA DIAMETER	MAX MAXIMUM	TB TACKBOARD
DIAG DIAGONAL	MECH MECHANICAL	T&G TONGUE AND GROOVE
DIM DIMENSION	MTL METAL	TEMP TEMPERED
DN DOWN	MEZZ MEZZANINE	TEL TELEPHONE
DO DOOR OPENING	MFR MANUFACTURER	THK THICK
DR DR	MIN MINIMUM	TOC TOP OF CONCRETE / CURB
DS DOWNSPOUT	MISC MISCELLANEOUS	TOP TOP OF PARAPET
DTL DETAIL	MO MASONRY OPENING	TOS TOP OF STEEL
DWG DRAWINGS	MULL MULLION	TOW TOP OF WALL
	N NEW	TYP TYPICAL
EA EACH	NO NUMBER	UNO UNLESS NOTED OTHERWISE
EJ EXPANSION JOINT	NR NON-RATED	VERT VERTICAL
ELEC ELECTRICAL	NTS NOT TO SCALE	WC WATER CLOSET
ELEV or EL ELEVATION	OC ON CENTER	WD WOOD
EQ EQUAL	OD OUTSIDE DIAMETER	WI WROUGHT IRON
EQUIP EQUIPMENT	OH OPPOSITE HAND	WL WATER LEVEL
EXIST EXISTING	OPNG OPENING	WP WATERPROOFING
EXT EXTERIOR	OPP OPPOSITE	WP WORKING POINT
EWC ELEC. WATER COOLER		

SYMBOLS

/ ANGLE	⌀ DIAMETER or ROUND	# NUMBER or POUND	& AND
C CHANNEL	⬢ WORK POINT OR ELEV BENCH MARK	□ SQUARE	⊙ AT
PL PLATE		⊕ SQUARE FEET	Δ DELTA
CL CENTER LINE			¢ PENNY

MAIN-TITLE

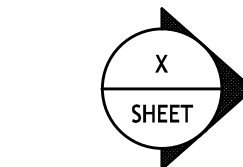
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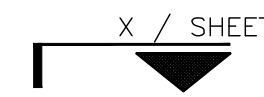
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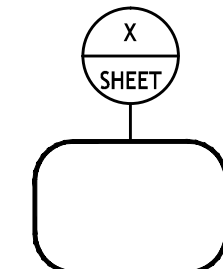
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BUILDING SECTION SYMBOL



SECTION SYMBOL



DETAIL BUBBLE



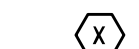
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DOOR NUMBER TAG



FRAME TYPE TAG



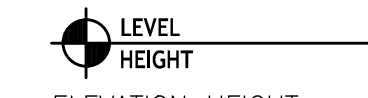
WINDOW/STORFRONT TYPE TAG



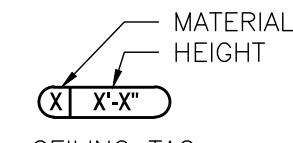
WALL TYPE TAG



DOOR TYPE TAG



ELEVATION HEIGHT



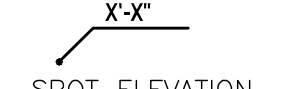
CEILING TAG

FLOORS	CEILINGS
BASES	WALLS

FINISH SYMBOL



ELEVATION SYMBOL



SPOT ELEVATION

BASIC CODE ANALYSIS

APPLICABLE CODES

BUILDING :	FLORIDA BUILDING CODE (FBC)	EDITION :	2010
A.D.A. :	FBC ACCESSIBILITY	EDITION :	2010
LIFE SAFETY:	FLORIDA FIRE PREVENTION CODE	EDITION :	2010
	NFPA - 1 UNIFORM FIRE CODE	EDITION :	2009
	NFPA - 101 LIFE SAFETY CODE	EDITION :	2009

OCCUPANCY

OCCUPANCY CLASSIFICATION : UTILITY
BUILDING AREA GROSS : 1274 SQ. FT.

CONSTRUCTION

TYPE OF CONSTRUCTION: TYPE III-B
SPRINKLERED OR UNSPRINKLERED: UNSPRINKLERED
APPROX BUILDING HEIGHT: 20 FEET (ONE STORY)

FIRE PROTECTION

FIRE PROTECTION REQUIREMENTS :	
STRUCTURAL FRAME:	0 HOURS
BEARING WALLS (EXTERIOR):	0 HOURS
NON-BEARING WALLS (INTERIOR):	0 HOURS
FLOOR CONSTRUCTION:	0 HOURS
ROOF CONSTRUCTION:	0 HOURS
MINIMUM INTERIOR FINISH CLASS :	C

GENERAL NOTES

1. SHOWN DIMENSIONS TAKE PRECEDENCE OVER SCALED MEASUREMENTS. DO NOT SCALE DRAWINGS.
2. LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
3. FINISH FLOOR ELEVATION 0'-0" SHOWN ON STRUCTURAL DRAWINGS IS EQUAL TO ACTUAL FINISH FLOOR ELEVATIONS SHOWN ON CIVIL DRAWINGS.
4. ALL ITEMS NOTED ON DRAWINGS ARE NEW AND ARE TO BE PROVIDED AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE.
5. THE MANUFACTURER'S STANDARD DETAILS OR APPROVED SHOP DRAWINGS / DATA SHEETS, IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, SHALL APPLY UNLESS OTHERWISE DETAILED IN CONSTRUCTION DOCUMENTS.

WALL TYPES

INDICATION	DETAIL	WALL TYPE	DESCRIPTION	RATINGS	REMARKS
INTERIOR WALL TYPES					
XXXXXX		◆	8" CMU w/ CORE FILL INSULATION	NON-RATED	HEIGHT: TO UNDERSIDE OF TRUSSES
XXXXXX		◆	8" CMU w/ CORE FILL INSULATION w/ TILE TO 5'-0" AFF TO RESTROOM SIDE	NON-RATED	HEIGHT: TO UNDERSIDE OF TRUSSES
XXXXXX		◆	8" CMU w/ CORE FILL INSULATION w/ TILE TO 5'-0" AFF TO RESTROOM SIDE BOTH SIDES AND ENDS	NON-RATED	HEIGHT: TO UNDERSIDE OF TRUSSES

DIMENSIONING

UNLESS OTHERWISE NOTED, PLAN DIMENSIONS ARE TAKEN FROM:

- FACE OF MASONRY UNIT TO FACE OF MASONRY UNIT.
- CENTERLINE OF COLUMN TO CENTERLINE OF COLUMN.
- FACE OF METAL STUD TO FACE OF METAL STUD.

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BORELLI PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR

770 VASSAR STREET
ORLANDO, FL 32804 (407) 418-1338

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ARCHITECTURAL GENERAL INFORMATION

PROJECT NO. 14-124

PHASE BO PERMIT DOCUMENTS

SCALE N/A

FILE NAME 14-124

DRAWN BY EBS

CHECKED BY JLM

DATE 09-30-14

PROJECT ADDRESS

OWNER NAME AND ADDRESS

ORANGE COUNTY PARKS
400 E. SOUTH STREET
5TH FLOOR
ORLANDO, FLORIDA 32801

CONTRACT NO.

DATE

REV.

DESCRIPTION

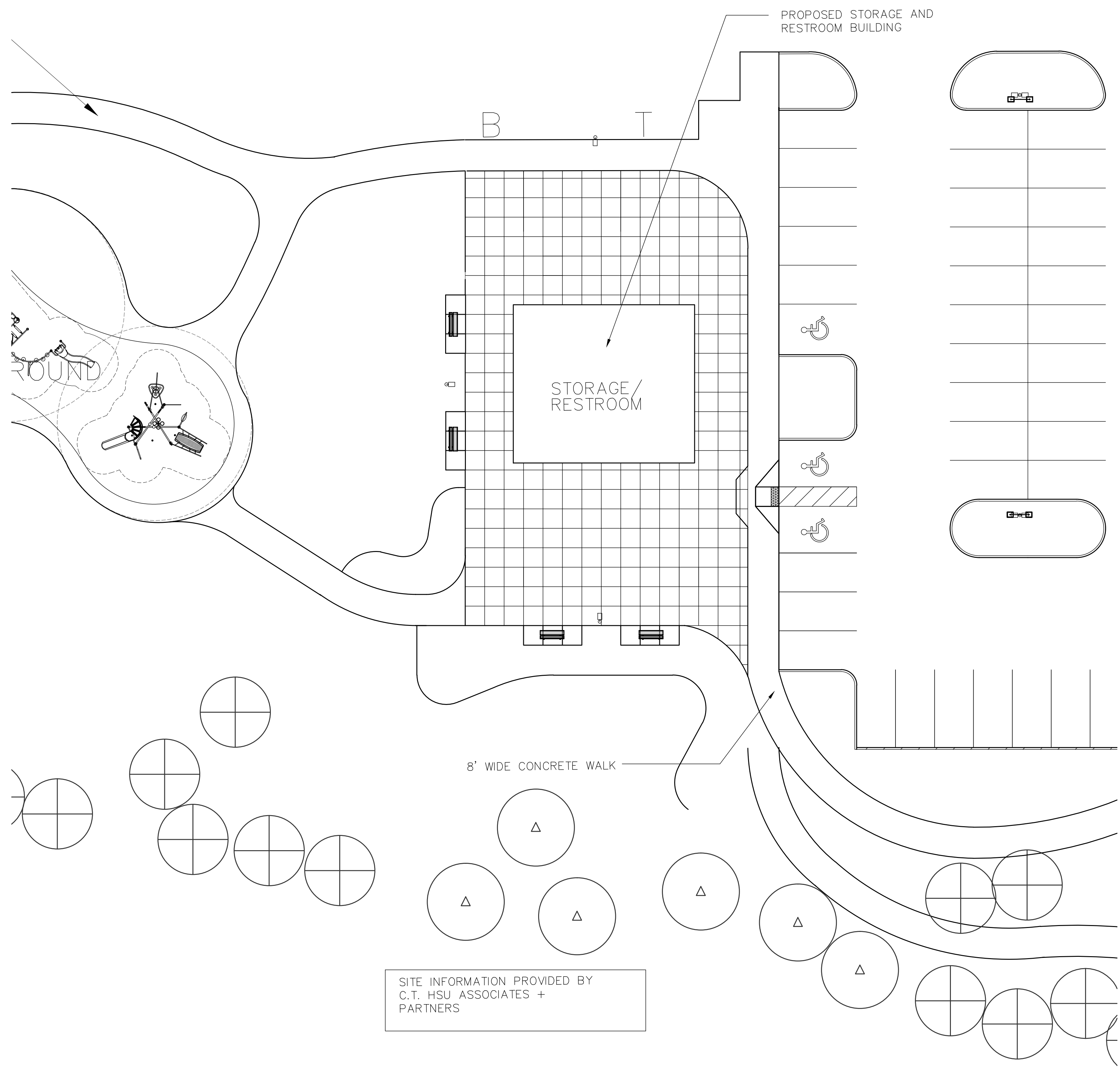
DATE

SIGNATURE AND DATED SEAL

CONSULTANTS

JAMES L. MOORE

ARP5890

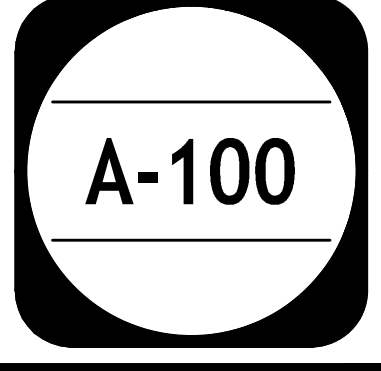


SITE INFORMATION PROVIDED BY
C.T. HSU ASSOCIATES +
PARTNERS

1 ARCHITECTURAL SITE PLAN
A-100 1/16"=1'-0"

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PROJECT NO. 14-124	REV. 14-124	DESCRIPTION BO/PERMIT DOCUMENTS	DATE AS NOTED	PROJECT ADDRESS ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801	DRAWING TITLE ARCHITECTURAL SITE PLAN	CONSULTANTS BORRELLI PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIOR 720 VASSAR STREET ORLANDO, FL. 32804 (407) 418-1338	SIGNATURE AND DATED SEAL JAMES L. MOORE ARCH 5890
PHASE SCALE FILE NAME DRAWN BY CHECKED BY DATE	14-124 AS NOTED 14-124 EBS JLM 09-30-14			OWNER NAME AND ADDRESS			



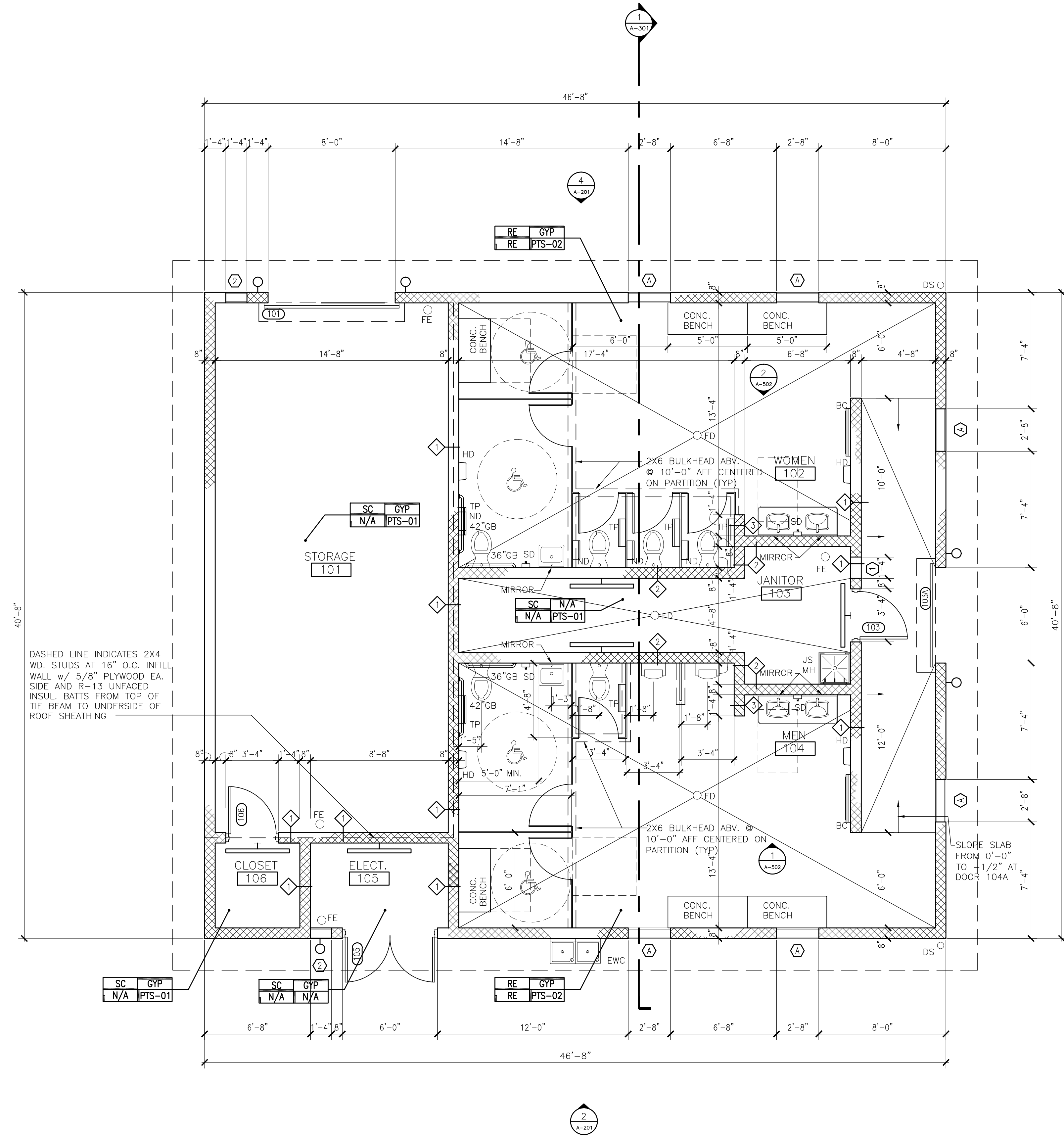
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GENERAL NOTES

- FOR FINISHES SEE SCHEDULE SHEET A-102
- TOILET PARTITIONS INDICATED HEREIN ARE CLEAR DIMENSIONS OR FROM SIDE OF PARTITION TO A FIXTURE BASED ON 1" FOR PARTITION THICKNESS

LEGEND

INDICATES ADA CLEARANCES



1 FLOOR PLAN
1/4"-1'-0"

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SIGNATURE AND DATED SEAL

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PROJECT ADDRESS

REV. DESCRIPTION DATE

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PHASE BO/PERMIT DOCUMENTS
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OWNER NAME AND ADDRESS
ORANGE COUNTY PARKS
400 E. SOUTH STREET
5TH FLOOR
ORLANDO, FLORIDA 32801

DRAWING TITLE
FLOOR PLAN


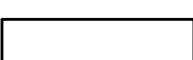


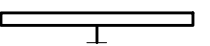
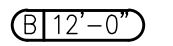
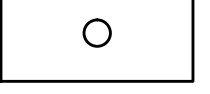
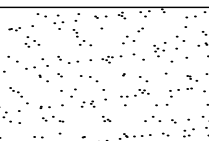

CONSULTANTS
BORRELLI PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR

SIGNATURE AND DATED SEAL
JAMES L. MOORE
ARCH 5890

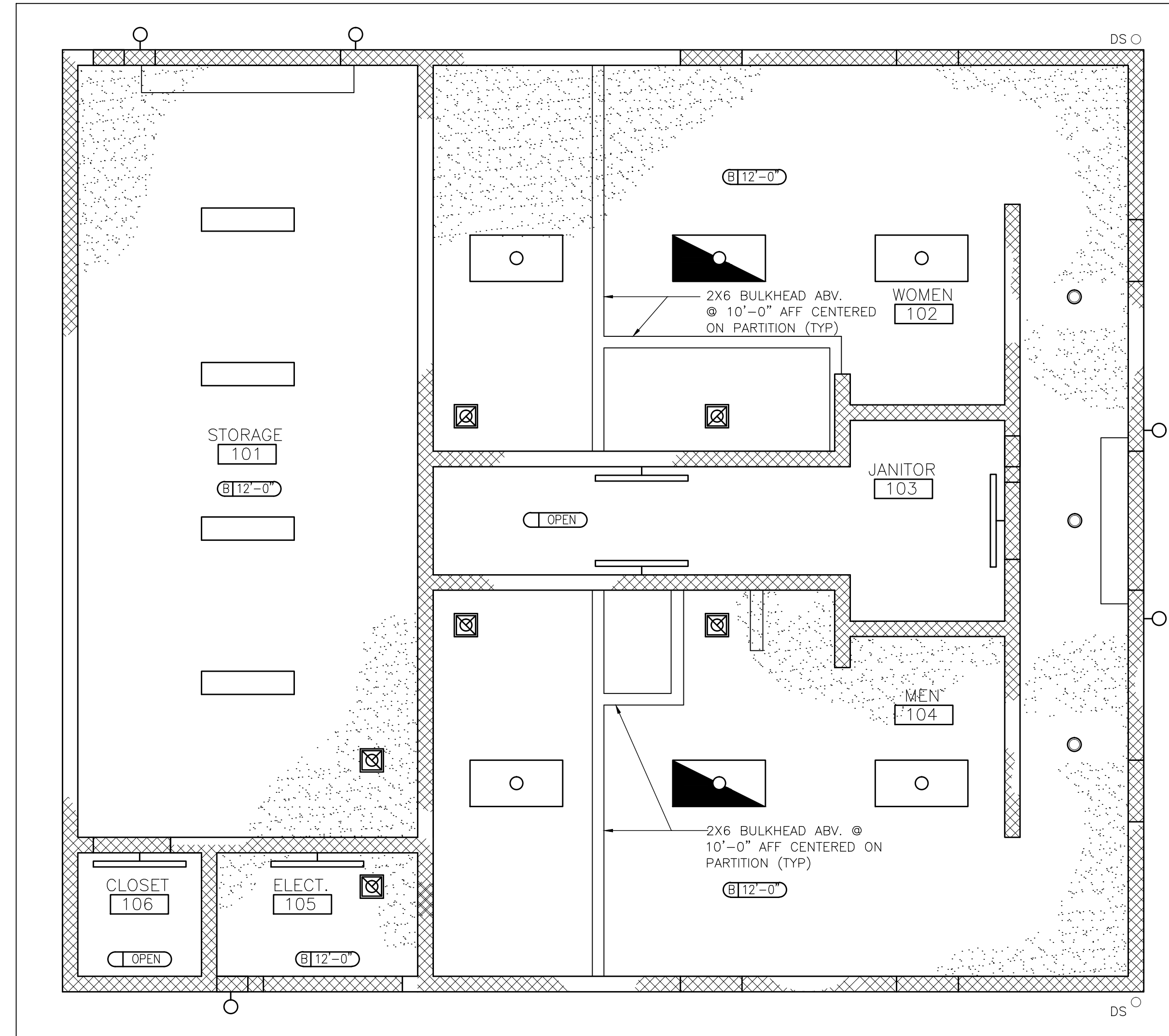
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A-101

LEGEND

	DOWN LIGHT		1'x4' SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE		EXHAUST FAN
	FLUORESCENT WALL MOUNTED LIGHT FIXTURE		GYPSON BOARD
	2'x4' SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE		GYPSON BOARD
	2'x4' SURFACE MOUNTED EMERGENCY FLUORESCENT LIGHT FIXTURE		

1 REFLECTED CEILING PLAN
A-102 1/4"=1'-0"



FINISH PLAN LEGEND

KEY NOTE	DESCRIPTION
FLOORS	
RE	RESINOUS FLOOR -
SC	SEALED CONCRETE -
BASE	
RE	RESINOUS FLOORING BASE - 6" RESINOUS BASE
CEILING	
GYP	5/8" GYPSUM BOARD - FOR CEILING: GYPSUM COVERED WITH EPOXY PAINT.
WALLS	
PTS-01	PAINT: ONE (1) COAT PRIMER AS RECOMMENDED BY MANUFACTURER. TWO (2) COATS OF VINYL ACRYLIC LATEX WITH AN EGGSHELL FINISH. COLOR: TBD BY OWNER
PTS-02 WET WALL	TILE: TILE TO 5'-0" AND PTS-01 ABOVE (ONLY ON WET WALL, OTHER WALLS REMAIN PTS-01). PAINT: ONE (1) COAT PRIMER AS RECOMMENDED BY MANUFACTURER. TWO (2) COATS OF VINYL ACRYLIC LATEX WITH AN EGGSHELL FINISH. COLOR: TBD BY OWNER

OCP JOHN YOUNG PARK: STORAGE AND RESTROOM BUILDING

SIGNATURE AND DATED SEAL

CONSULTANTS

REFLECTED CEILING PLAN
CEILING AND FINISH
LEGEND

DRAWING TITLE

PROJECT ADDRESS

DATE

DESCRIPTION

REV.

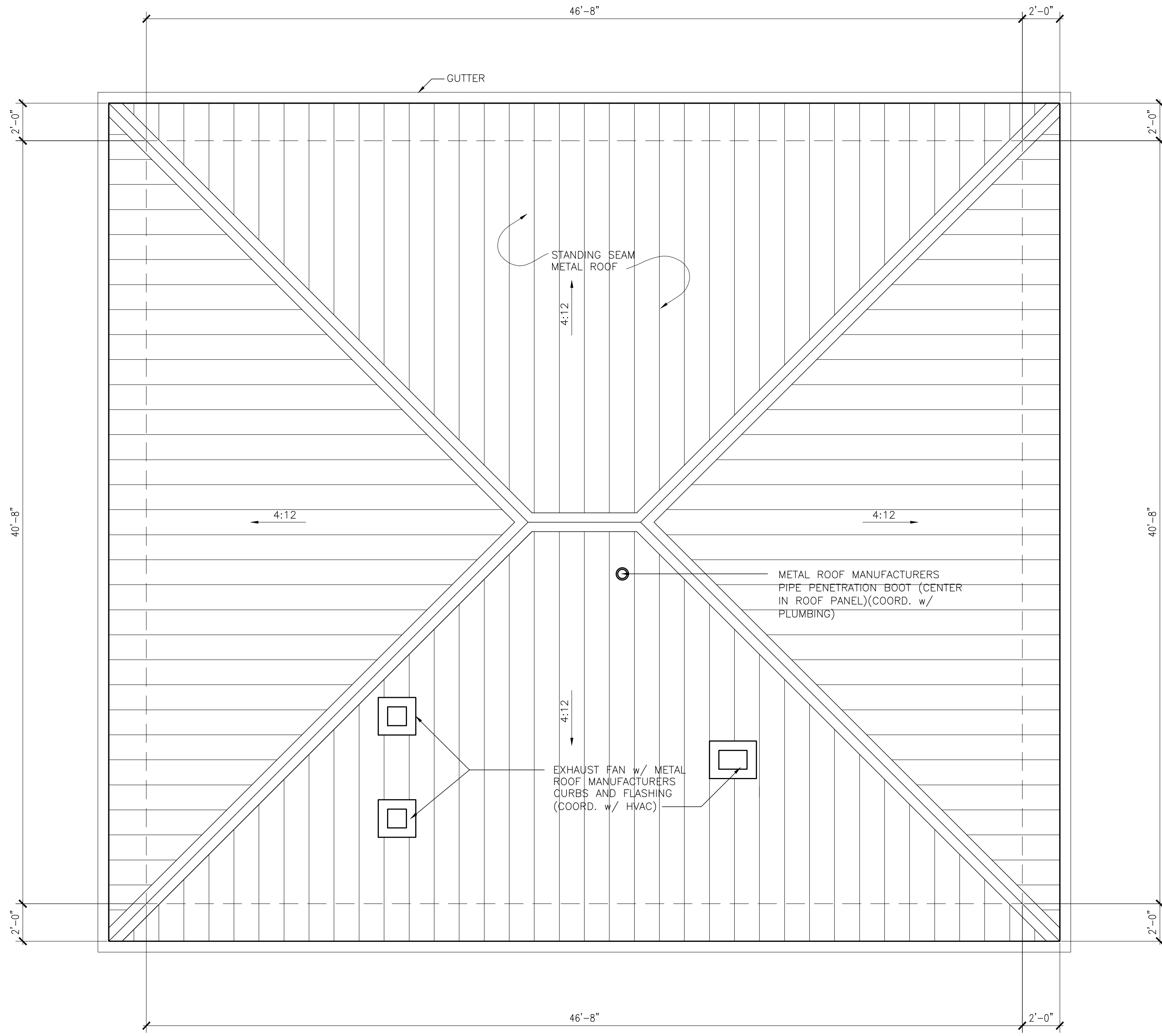
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PHASE BOYERHIT DOCUMENTS
SCALE AS NOTED 14-124
FILE NAME
DRAWN BY EBS
CHECKED BY JLM
DATE 09-30-14

A-102

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JAMES L. MOORE AR95890

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1 ROOF PLAN
A-103 1/4"=1'-0"

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	DRAWN BY	ERS				
	CHECKED BY	JLR				
	DATE	09-30-14				

A-103

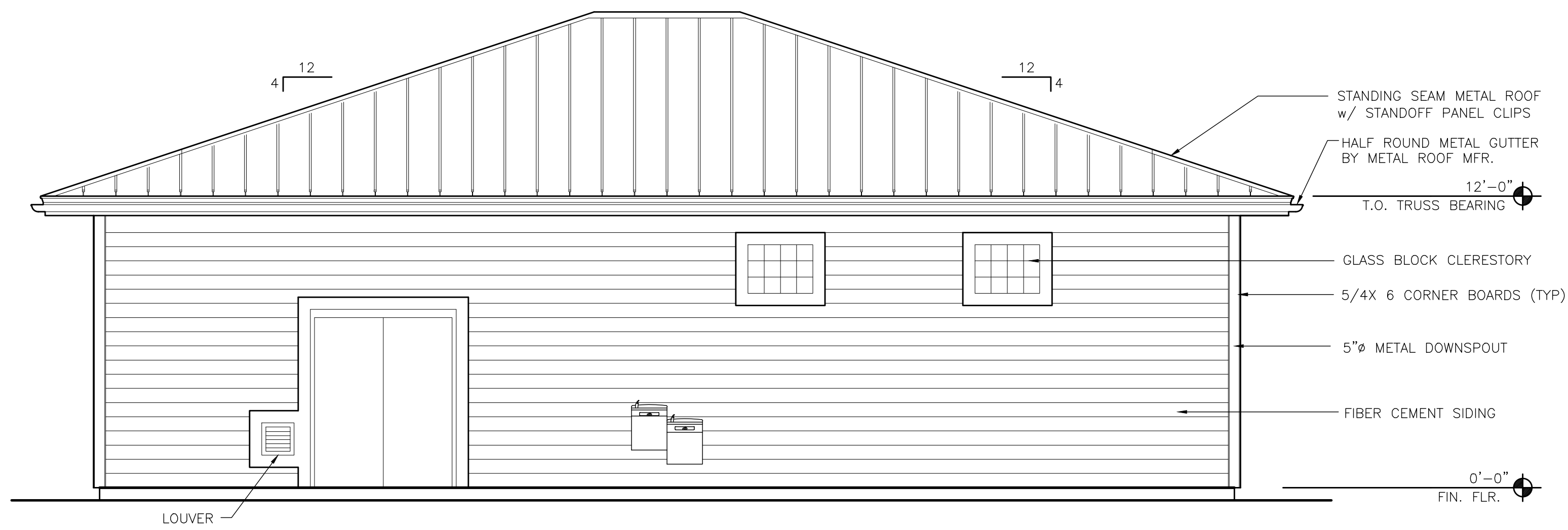
ROOF PLAN

JAMES L. MOORE

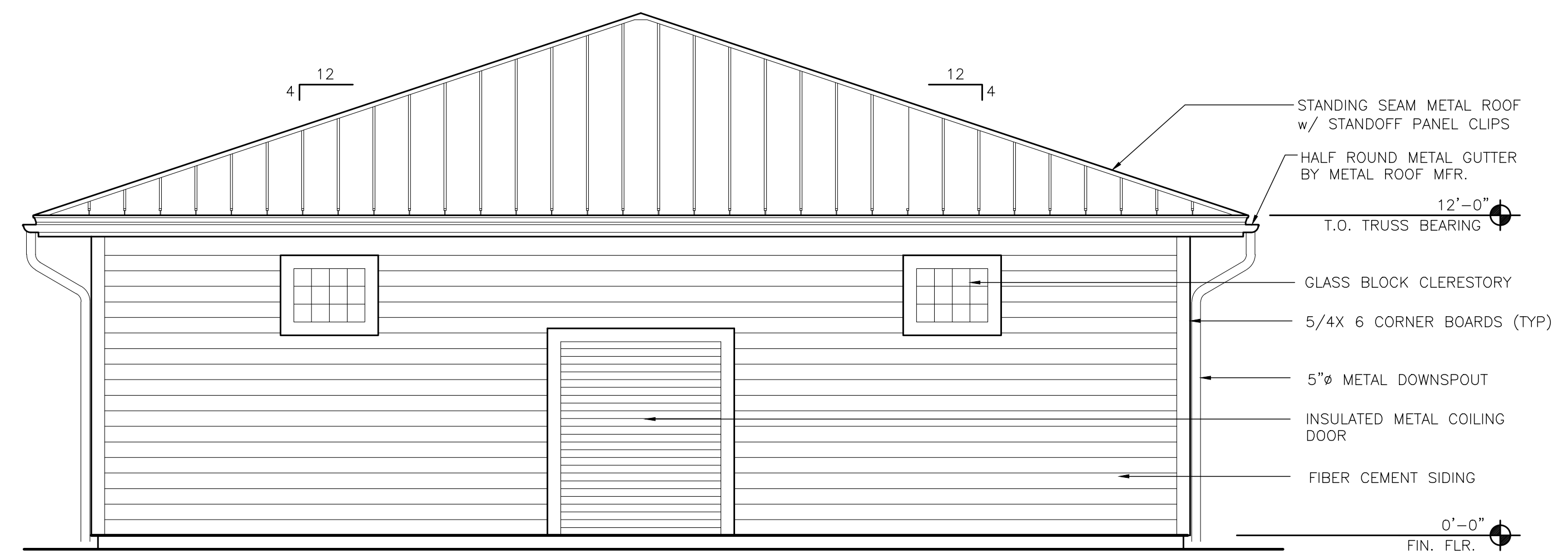
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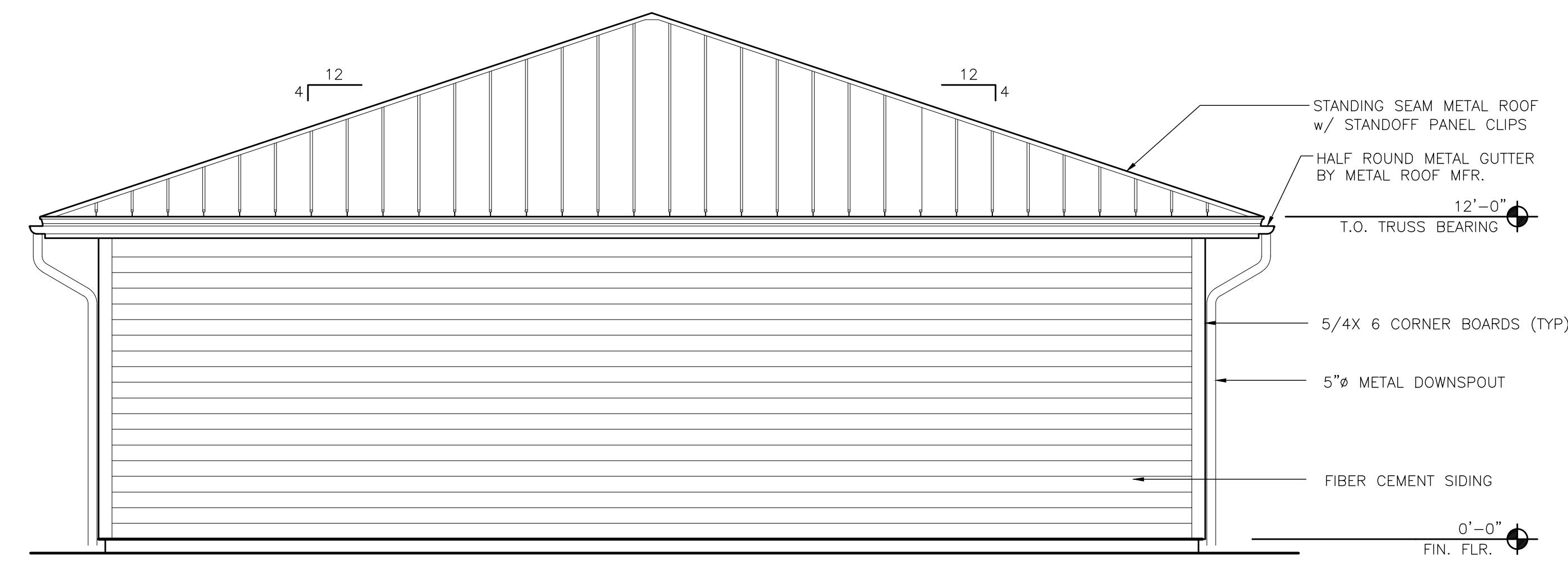
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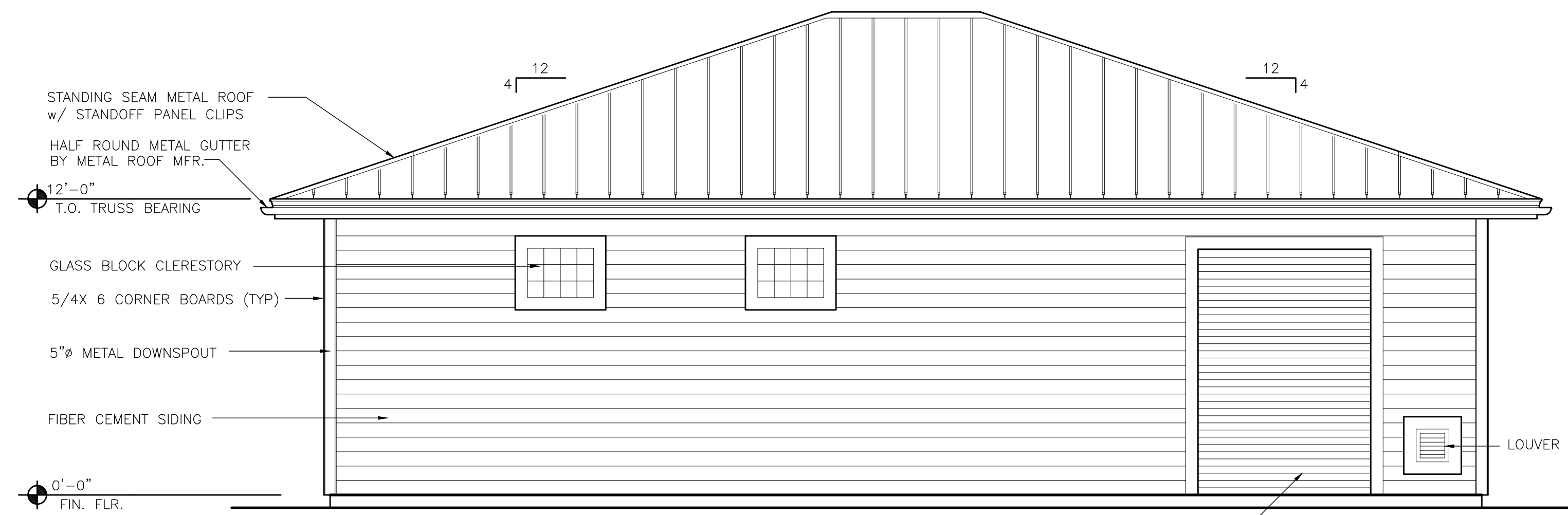
2 SOUTH ELEVATION
A-201 1/4"-1'-0"



1 EAST ELEVATION
A-201 1/4"-1'-0"



3 WEST ELEVATION
A-201 1/4"-1'-0"

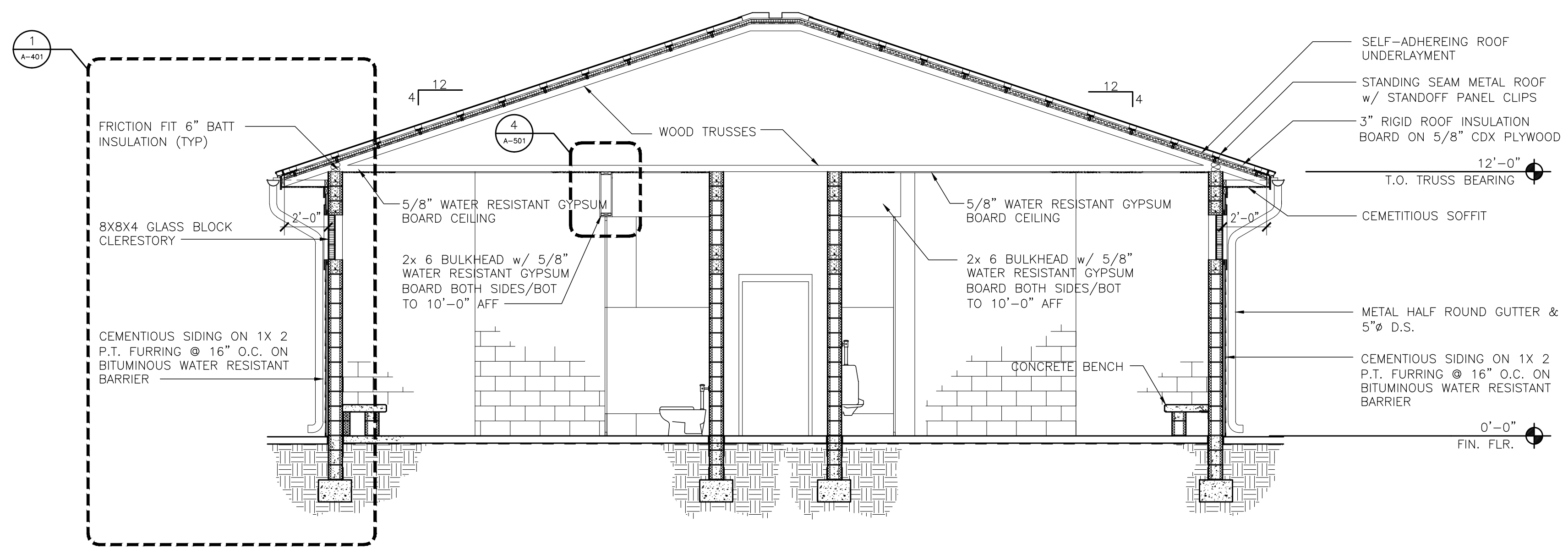


4 NORTH ELEVATION
A-201 1/4"-1'-0"

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PROJECT NO. 14-124		DATE 14-12-14		PROJECT ADDRESS ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801	
PHASE BO PERMIT DOCUMENTS	SCALE AS NOTED	FILE NAME 14-124	DRAWN BY EBS	CHECKED BY JLM	DATE 09-30-14
OWNER NAME AND ADDRESS			ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801		
CONSULTANTS		SIGNATURE AND DATED SEAL		EXTERIOR ELEVATIONS	
BORELLI PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIOR 720 VASSAR STREET ORLANDO, FL. 32804 (407) 418-1338		JAMES L. MOORE ARS 9590			





1 BUILDING SECTION
A-301 1/4" = 1'-0"

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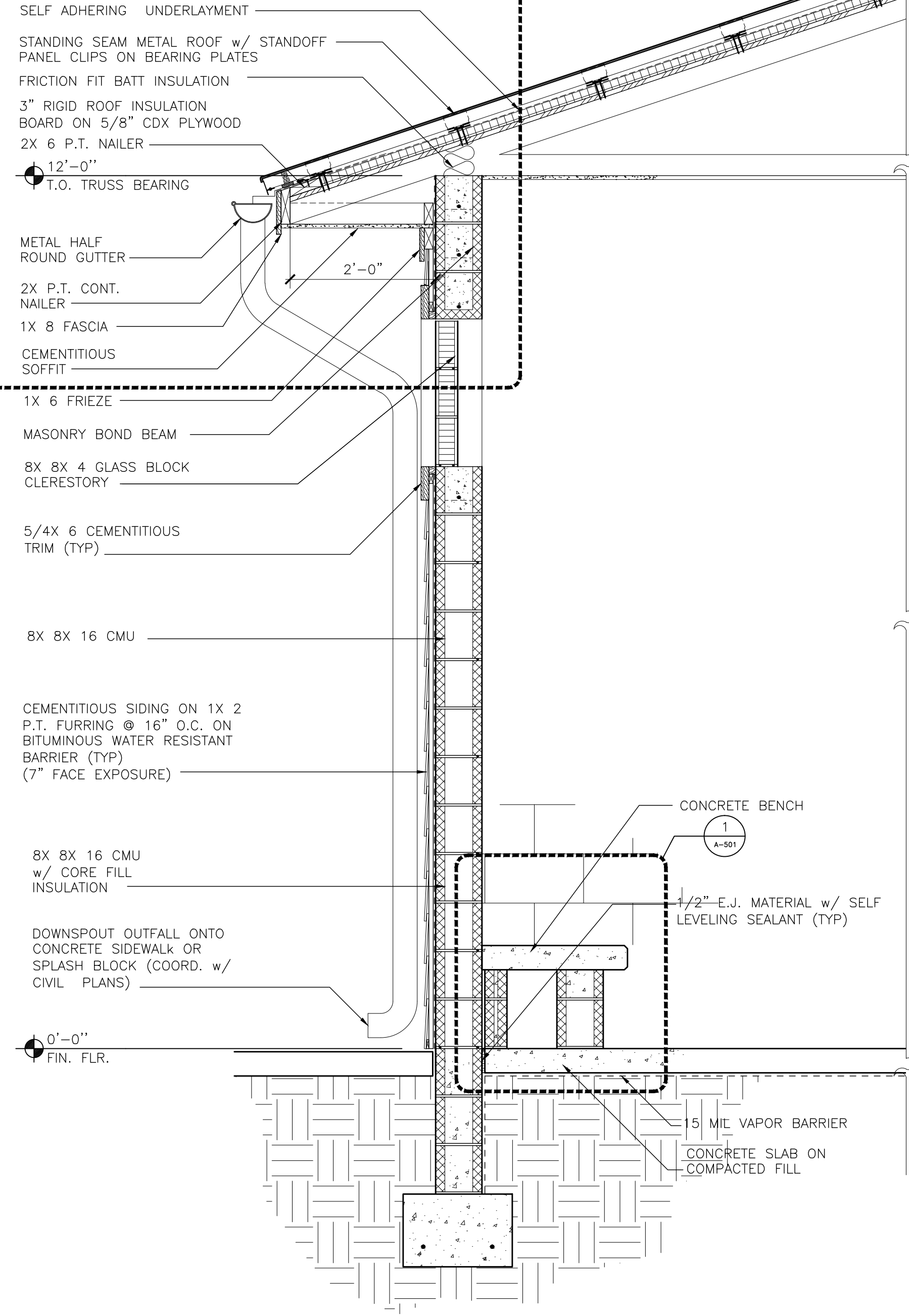
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PHASE	BO PERMIT DOCUMENTS							
SCALE	AS NOTED							
FILE NAME	14-124				OWNER NAME AND ADDRESS			
DRAWN BY	EB5				ORANGE COUNTY PARKS			
CHECKED BY	JLM				400 E. SOUTH STREET			
DATE	09-30-14				5TH FLOOR			
					ORLANDO, FLORIDA 32801			

A-301

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ARCH 5890

2
A-501



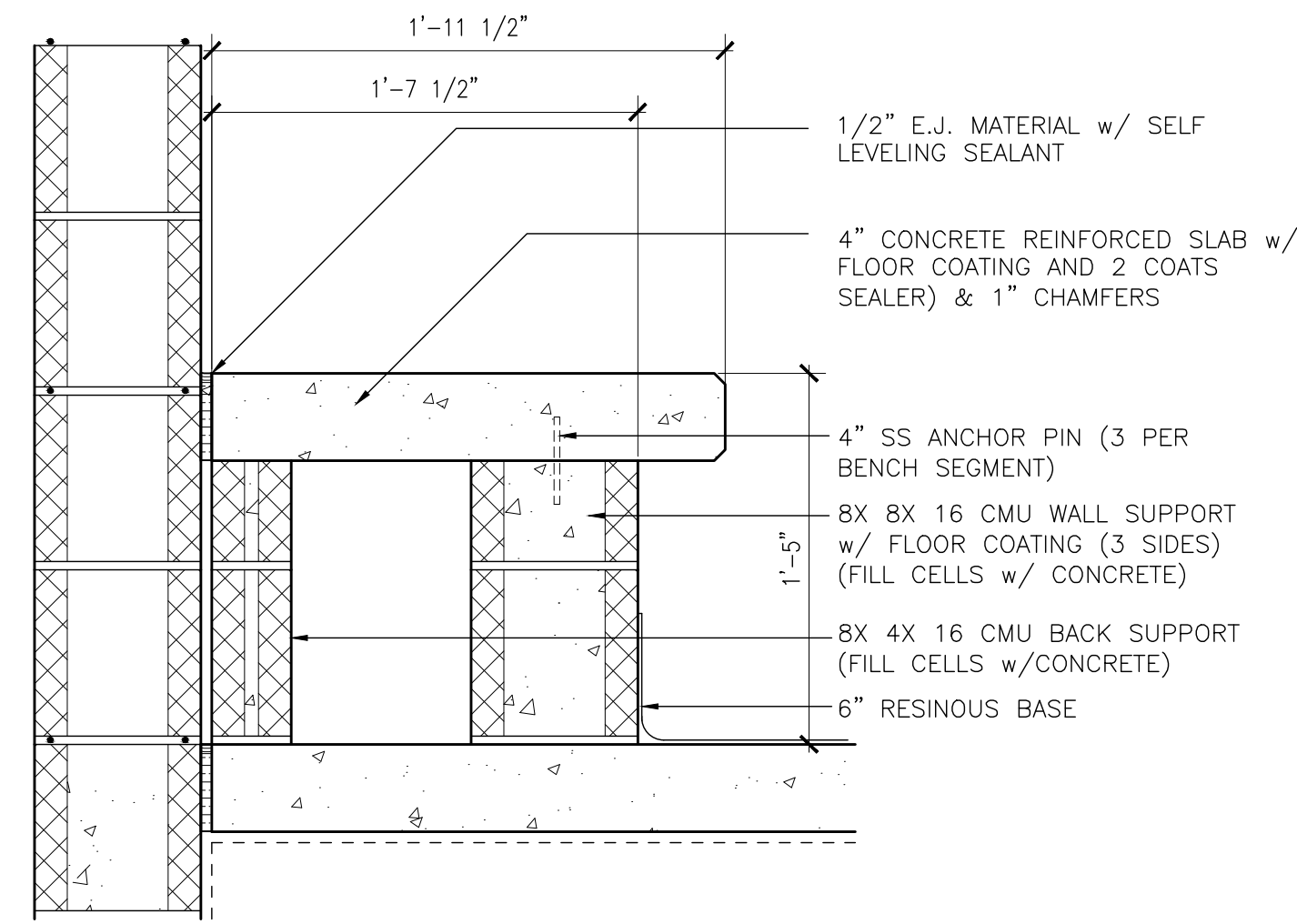
1 WALL SECTION
A-401 3/4" = 1'-0"

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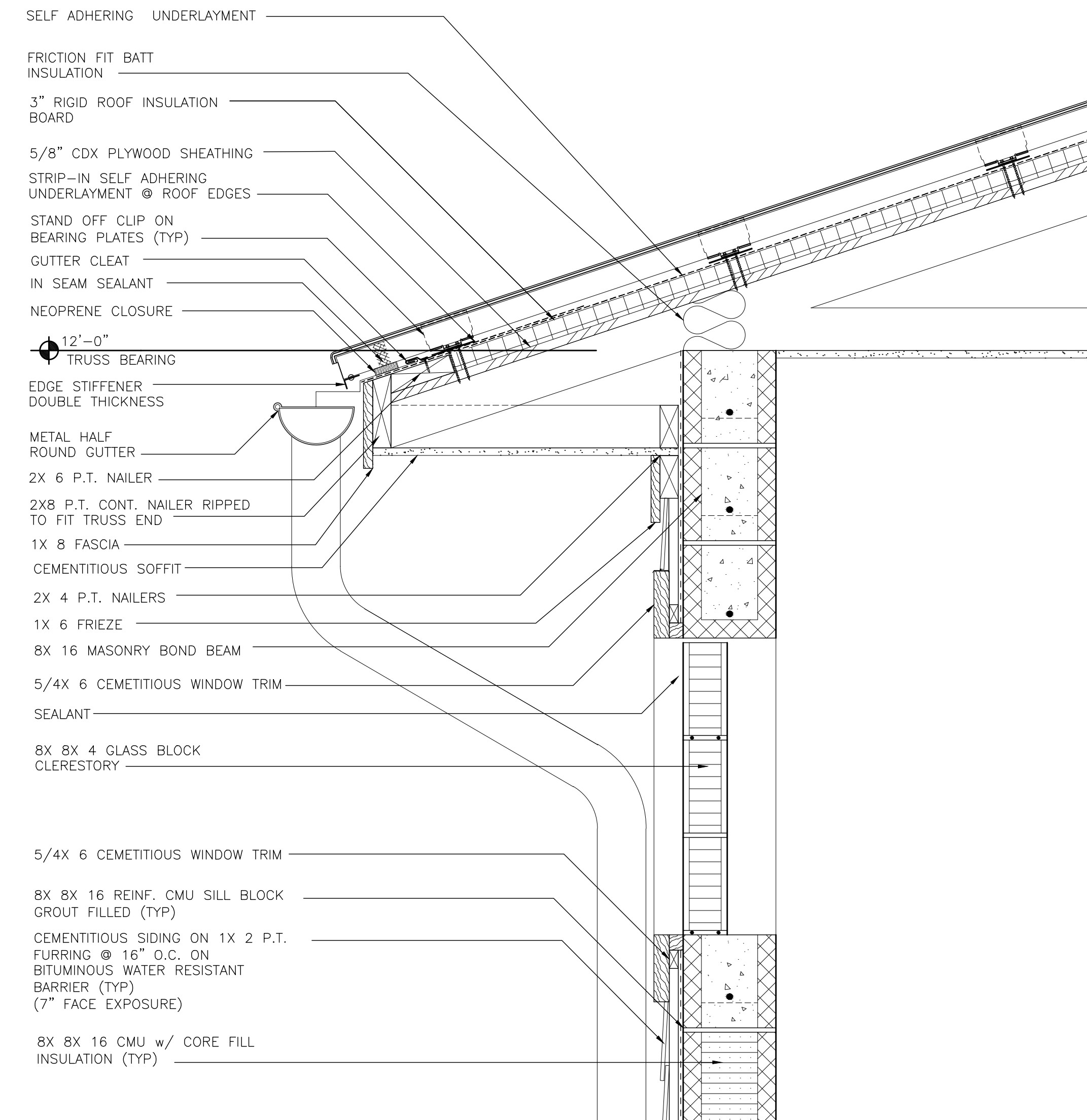
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PHASE	BO PERMIT DOCUMENTS						
SCALE	AS NOTED						
FILE NAME	14-124						
DRAWN BY	ERB						
CHECKED BY	JLM						
DATE	09-30-14						
PROJECT ADDRESS					DRAWING TITLE		
OWNER NAME AND ADDRESS					WALL SECTION		
ORANGE COUNTY PARKS							
400 E. SOUTH STREET							
5TH FLOOR							
ORLANDO, FLORIDA 32801							
JAMES L. MOORE					ARTS5890		

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 ARCHITECTURE PLANNING LANDSCAPE INTERIOR
 720 VASSAR STREET
 ORLANDO, FL 32804 (407) 418-1338
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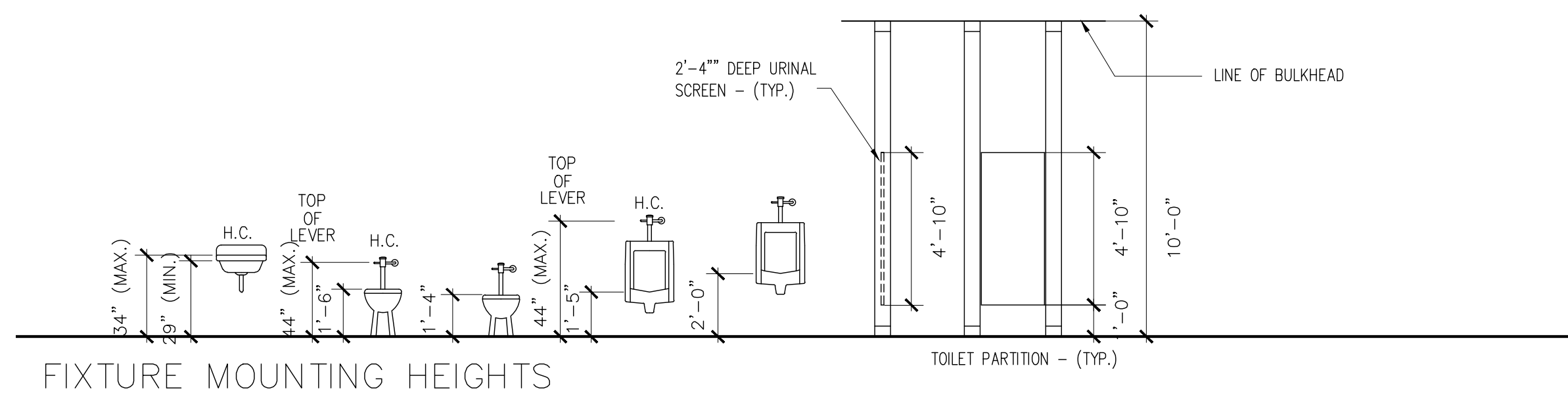
A-401



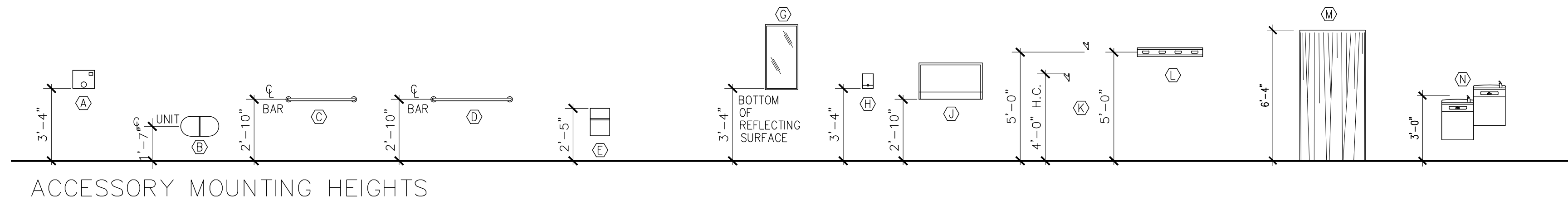
1 CONCRETE BENCH DETAIL
1-1/2'-1'-0"



2 EXPANDING EAVE DETAIL
1-1/2'-1'-0"

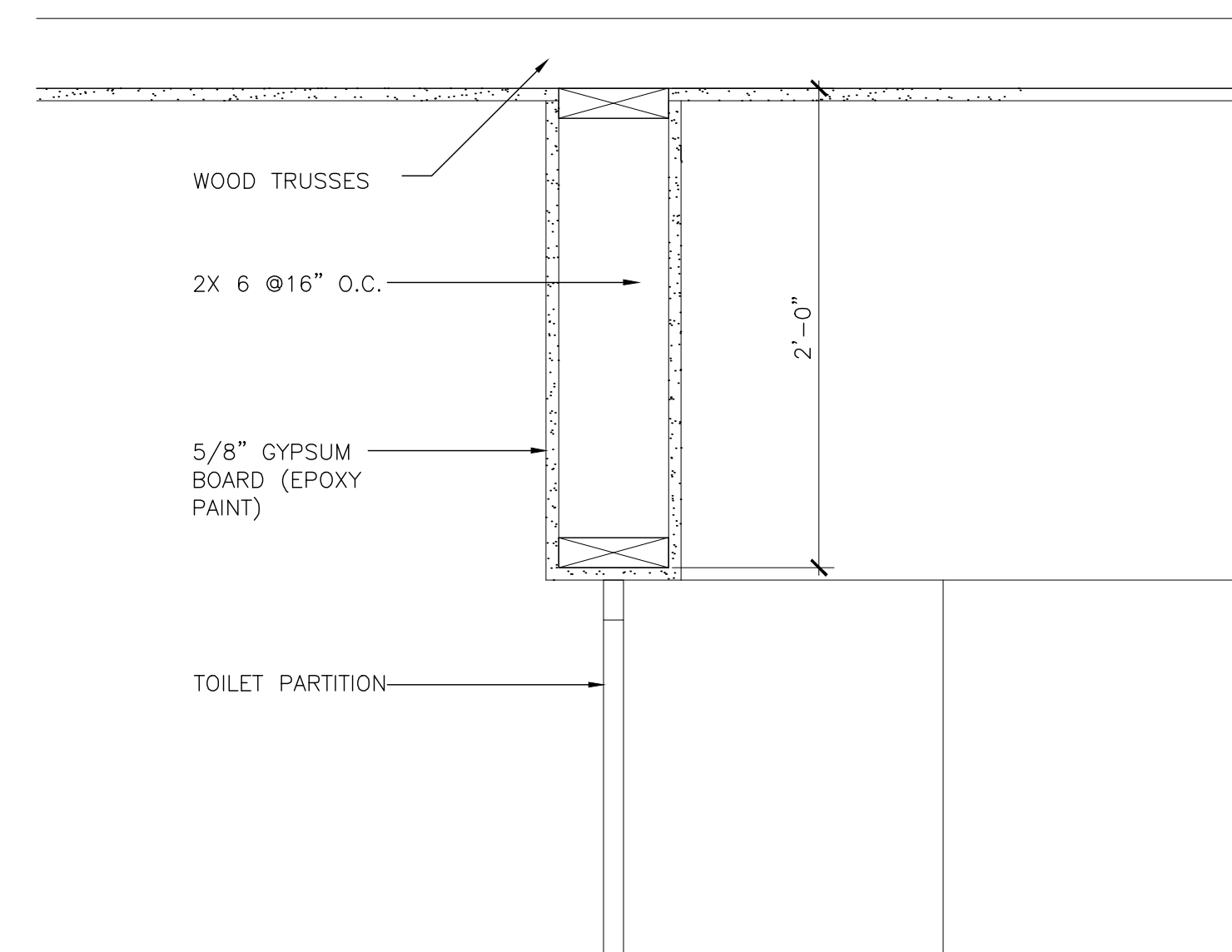


FIXTURE MOUNTING HEIGHTS



ACCESSORY MOUNTING HEIGHTS

ACCESSORY LEGEND	
(A)	WARM-AIR DRYER (HD)
(B)	TOILET TISSUE DISPENSER (TP)
(C)	GRAB BAR - 36" LONG (GB)
(D)	GRAB BAR - 42" LONG (GB)
(E)	SANITARY NAPKIN DISPOSAL (ND)
(F)	NOT USED
(G)	MIRROR UNIT - 18" x 36"
(H)	SOAP DISPENSER (SD)
(I)	DIAPER CHANGING STATION (BC)
(J)	ROBE HOOK (RH)
(K)	MOP AND BROOM HOLDER (MH)
(L)	SHOWER CURTAIN
(M)	DRINKING FOUNTAIN (EWC)



4 BULKHEAD DETAIL
1-1/2'-1'-0"

3 MOUNTING HEIGHT DETAIL
1/4'-1'-0"

OCP JOHN YOUNG PARK: STORAGE AND RESTROOM BUILDING

CONSULTANTS

SIGNATURE AND DATED SEAL

DEATH AND
ACCESSORY MOUNTING
HEIGHTS

DRAWING TITLE

PROJECT ADDRESS

DATE

DESCRIPTION

REV.

PROJECT NO.	DESCRIPTION	DATE
14-124	BO PERMIT DOCUMENTS	AS NOTED
14-124	FILE NAME	ERB
14-124	DRAWN BY	JLM
09-30-14	CHECKED BY	
	DATE	

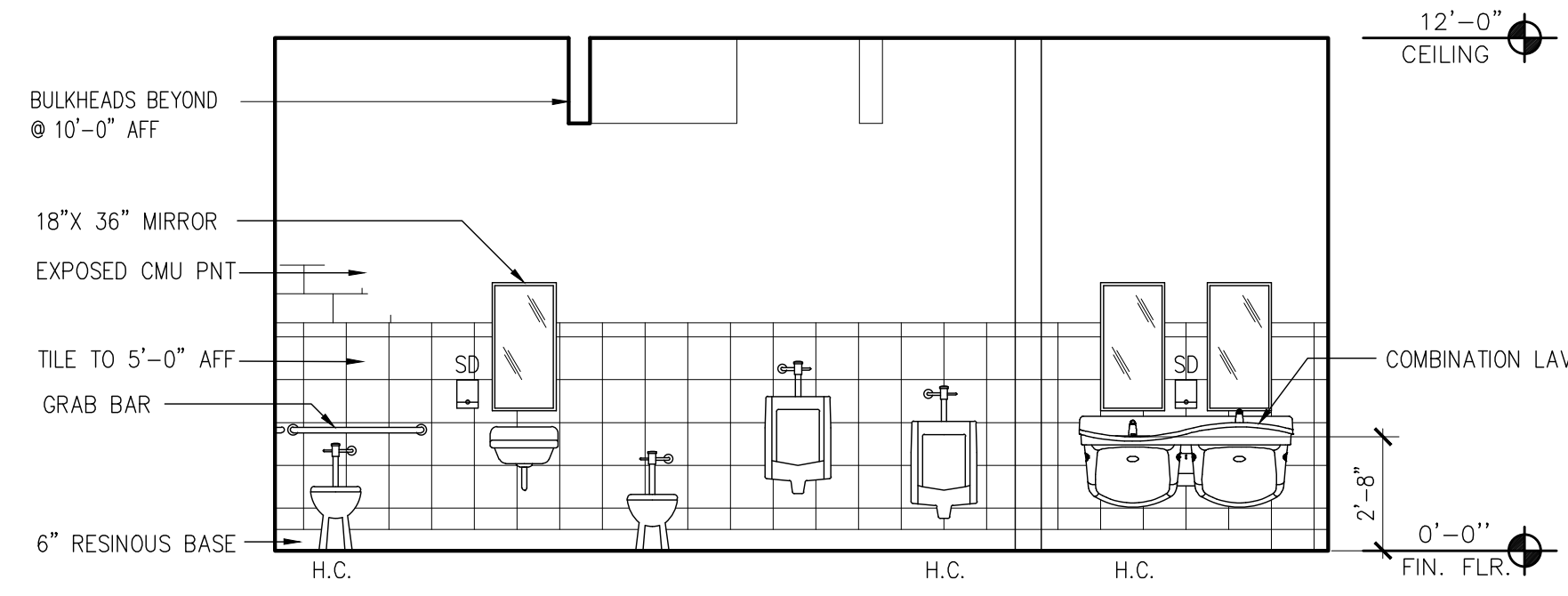
PHASE	SCALE	FILE NAME	DRAWN BY	CHECKED BY	DATE
BO PERMIT DOCUMENTS	AS NOTED	14-124	ERB	JLM	09-30-14

OWNER NAME AND ADDRESS
ORANGE COUNTY PARKS
400 E. SOUTH STREET
5TH FLOOR
ORLANDO, FLORIDA 32801

BORRELLI PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
770 VASSAR STREET
ORLANDO, FL 32804 (407) 418-1338

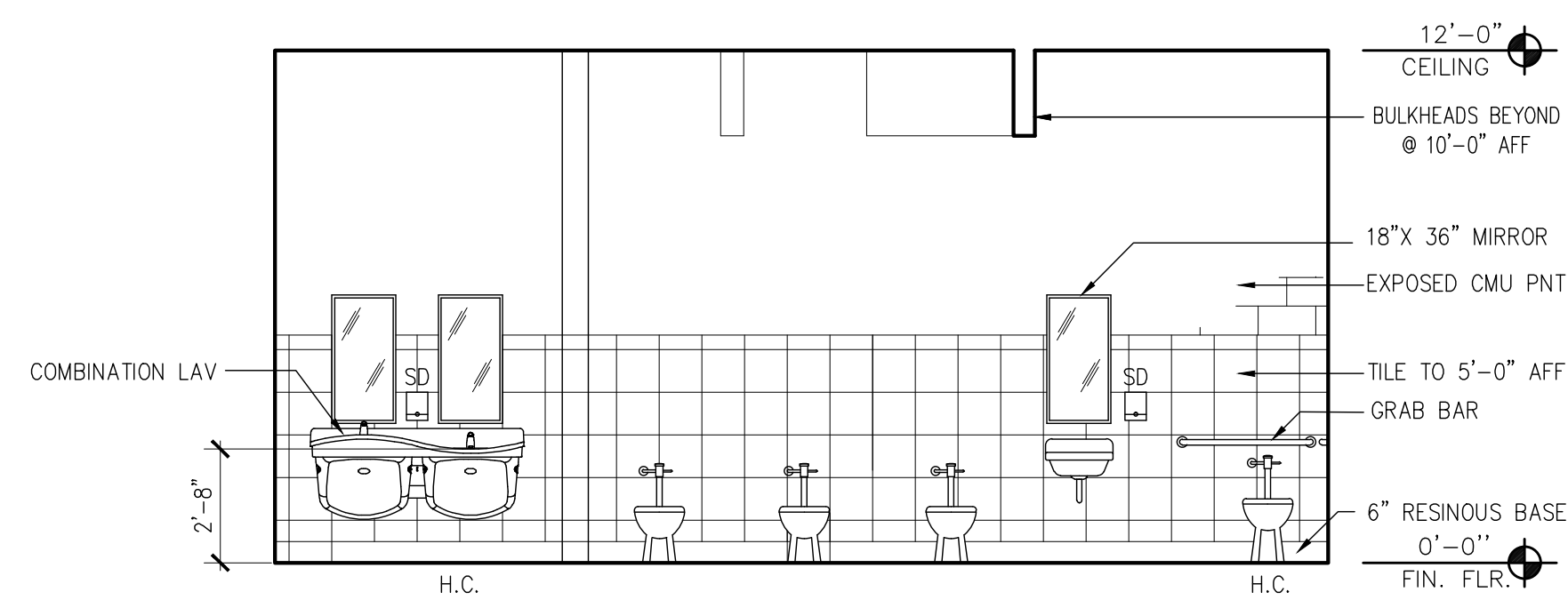
JAMES L. MOORE
ARCH 5990

A-501



PARTITIONS NOT SHOWN FOR CLARITY

1 INTERIOR ELEV. MEN'S RESTROOM
A-502 1/4"=1'-0"



PARTITIONS NOT SHOWN FOR CLARITY

2 INTERIOR ELEV. WOMEN'S RESTROOM
A-502 1/4"=1'-0"

OCP JOHN YOUNG PARK: STORAGE AND RESTROOM BUILDING

PROJECT NO.	14-124	REV.	DESCRIPTION	DATE	PROJECT ADDRESS	DRAWING TITLE	CONSULTANTS	SIGNATURE AND DATED SEAL
PHASE	BO PERMIT DOCUMENTS							
SCALE	AS NOTED							
FILE NAME	14-124				OWNER NAME AND ADDRESS	RESTROOM ELEVATIONS		
DRAWN BY	EB5				ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801			
CHECKED BY	JLM							
DATE	09-30-14							

A-502

BORBELL PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
720 VASSAR STREET
ORLANDO, FL 32804 (407) 418-1338
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JAMES L. MOORE
ARCH 5890

STORAGE AND RESTROOM BUILDING - DOOR SCHEDULE

ROOM #	DESCRIPTION	DOOR #	DOOR			OPENING FRAME			DETAIL #	HDW SET #	NOTES			
			Size (feet - inches)			Door Type	Base Mat'l	Finish Mat'l				Base Mat'l	Finish Mat'l	Frame Type
			Width	Height	Thick.									
101	STORAGE	101	8'-0"	10'-0"	-	D	STEEL	PAINT	-	-	-	3, 4 & 5	4.0	OVERHEAD COILING DOOR, MANUAL THROUGH WALL CRANK
103	JANITOR	103	3'-0"	7'-0"	-	A	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	A	1 & 6	2.0	OVERHEAD COILING DOOR, MANUAL PUSH/PULL DOOR OPERATOR
105	ELECTRICAL	105	PR 2'-10"	7'-0"	1 3/4"	B	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	B	2 & 6	1.0	
106	AHU	106	3'-0"	7'-0"	1 3/4"	A	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	A	1	3.0	

GENERAL DOOR NOTES:

A. ALL DOORS AND HARDWARE SHALL COMPLY WITH N.F.P.A. 101-5-2.1.5. ALL DOORS AND HARDWARE SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE, A.D.A. FEDERAL REGULATION CODES, UTILIZING A LEVER LATCH OR LOCKSET AND OC STANDARDS.

B. FOR DOOR HARDWARE SPECIFICATIONS SEE SECTION 087100

C. FOR HOLLOW METAL DOORS AND FRAMES SPECIFICATIONS SEE SECTION 081113

D. ALL HOLLOW METAL DOORS & FRAMES TO RECEIVE ENAMEL PAINT FINISH. COLOR TO BE SELECTED BY ARCHITECT

E. ALL DOORS UNDERCUT 3/4" FROM STRUCTURAL SLAB UNLESS OTHERWISE NOTED

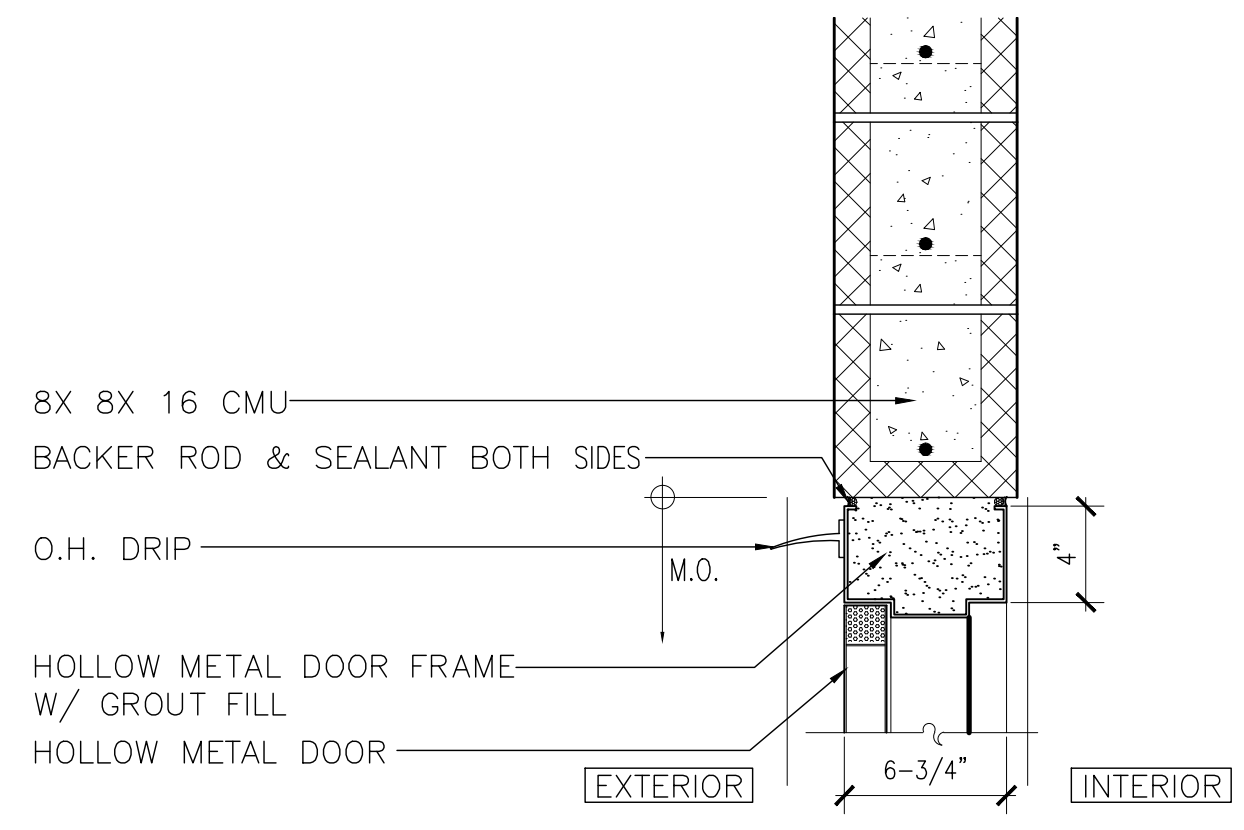
F. PERIMETER ANCHORING FOR ALL EXTERIOR DOORS AND WINDOW FRAMING SYSTEMS TO BE HURRICANE HARDENED TO COMPLY WITH MIAMI-DADE COUNTY PROTOCOLS. REFER TO MANUFACTURER'S PRODUCT APPROVAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED ANCHORING AND CONNECTIONS.

DOOR ACCESSIBILITY NOTES:

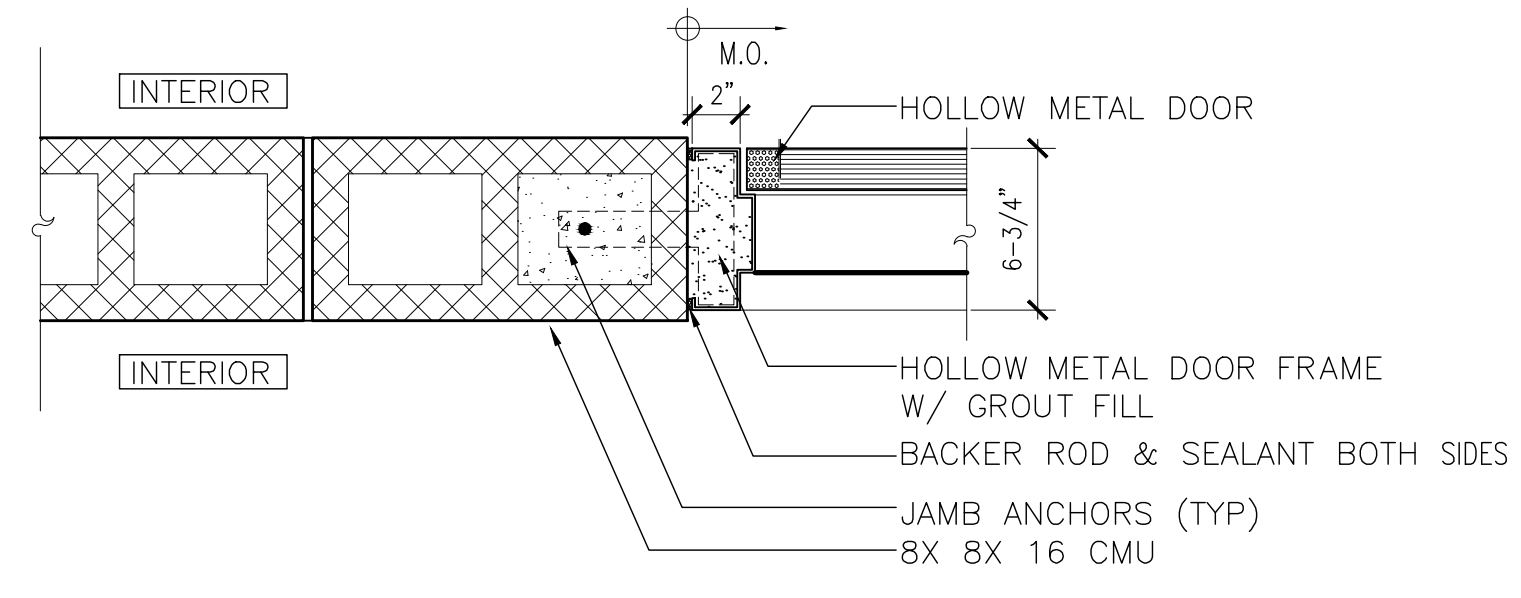
HANDLES, PULLS, LATCHES, LOCKS & OTHER OPERATING DEVICES MUST HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT FINCHING OR TWISTING OF THE WRIST TO OPERATE. LEVER OPERATED MECHANISM & U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. HARDWARE REQUIRED FOR PASSAGE MUST BE MOUNTED NO HIGHER THAN 48" A.F.F.

DOOR CLOSURES:
IF A DOOR HAS A CLOSER THEN THE SWEEP PERIOD OF THE CLOSER MUST BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH. MEASURE FROM THE LEADING EDGE OF THE DOOR.

DOOR OPENING:
FORCE THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR MUST BE AS FOLLOWS:
EXTERIOR HINGED DOORS: (ADAAG PROVIDES NO REQUIREMENTS AT THIS TIME)
INTERIOR HINGED DOORS:
5 LB.'S SLIDING OR FOLDING DOORS: 5 LB.'S

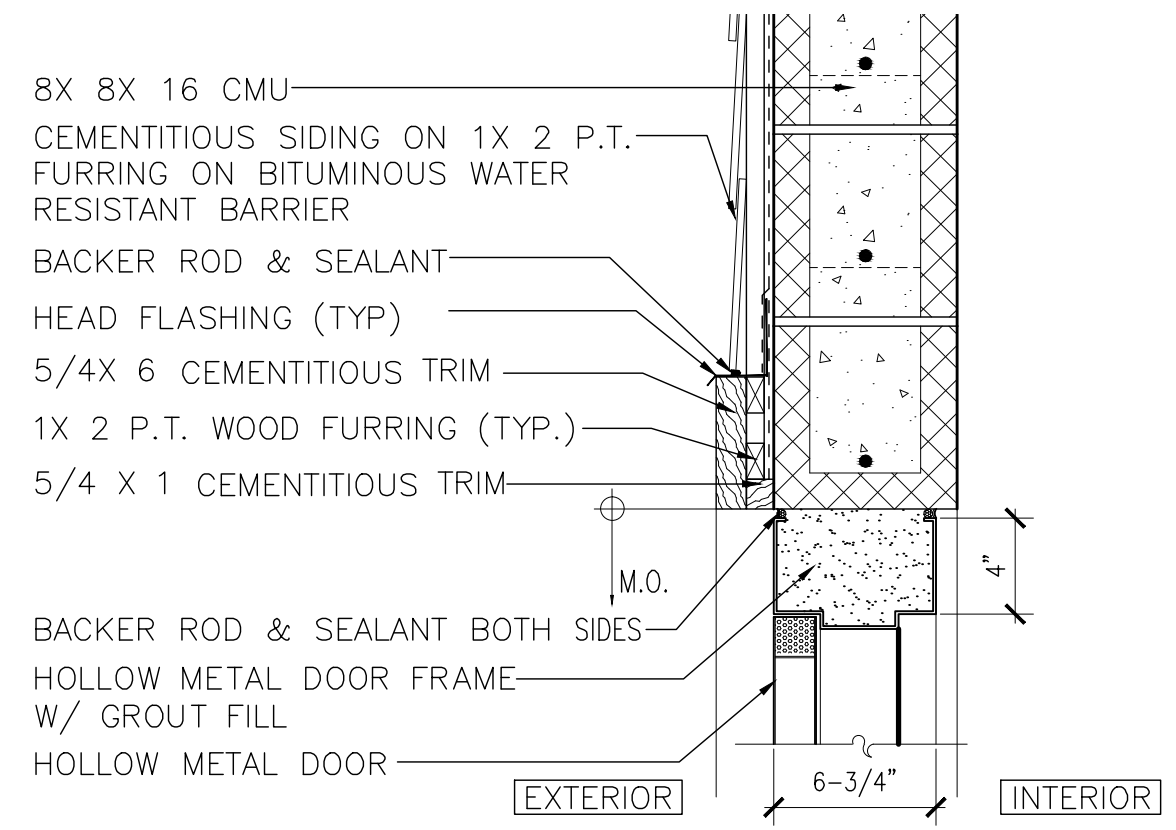


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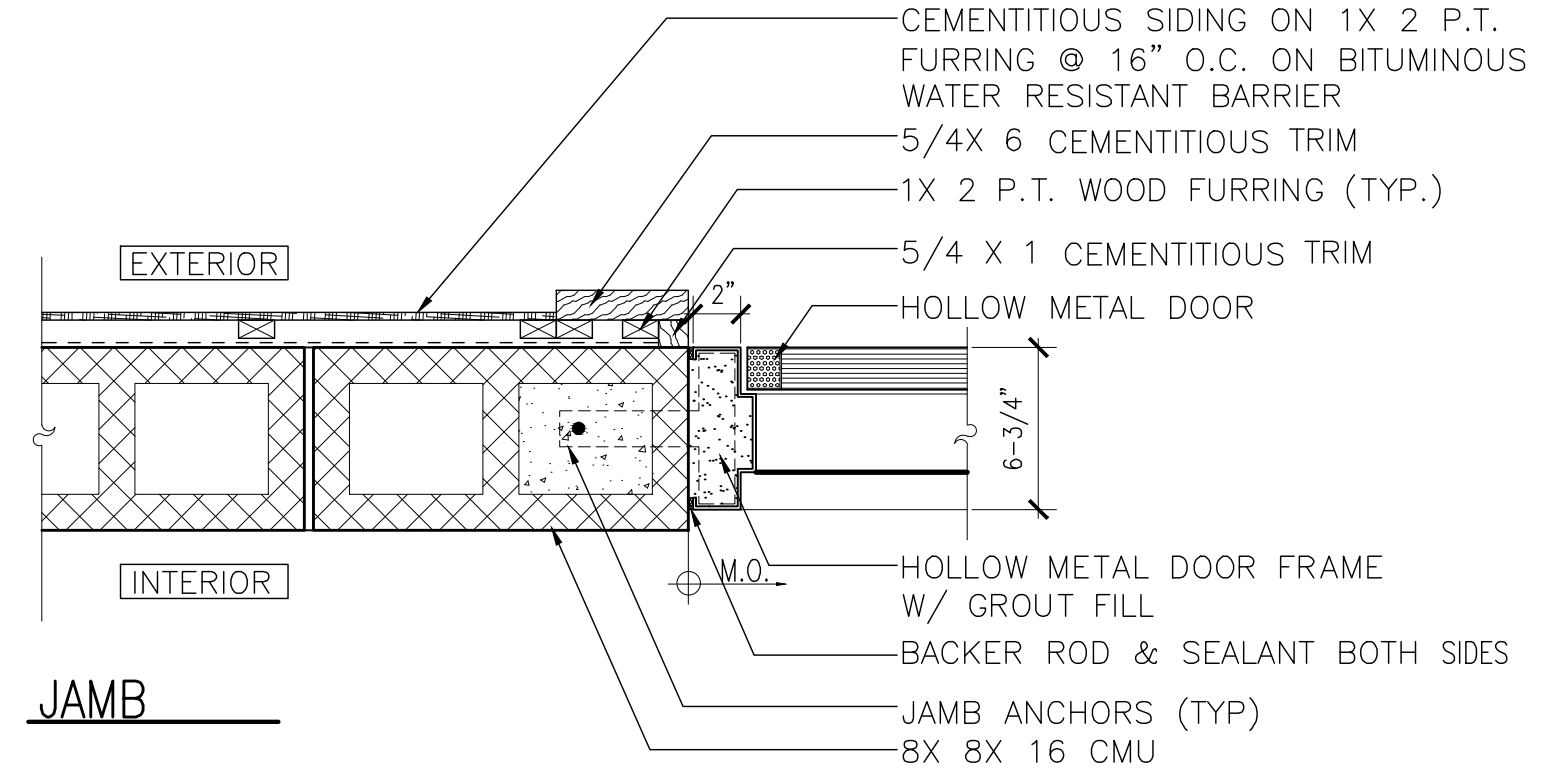


JAMB

1 H.M. DOOR AT CMU
SCALE: 1-1/2" = 1'-0"

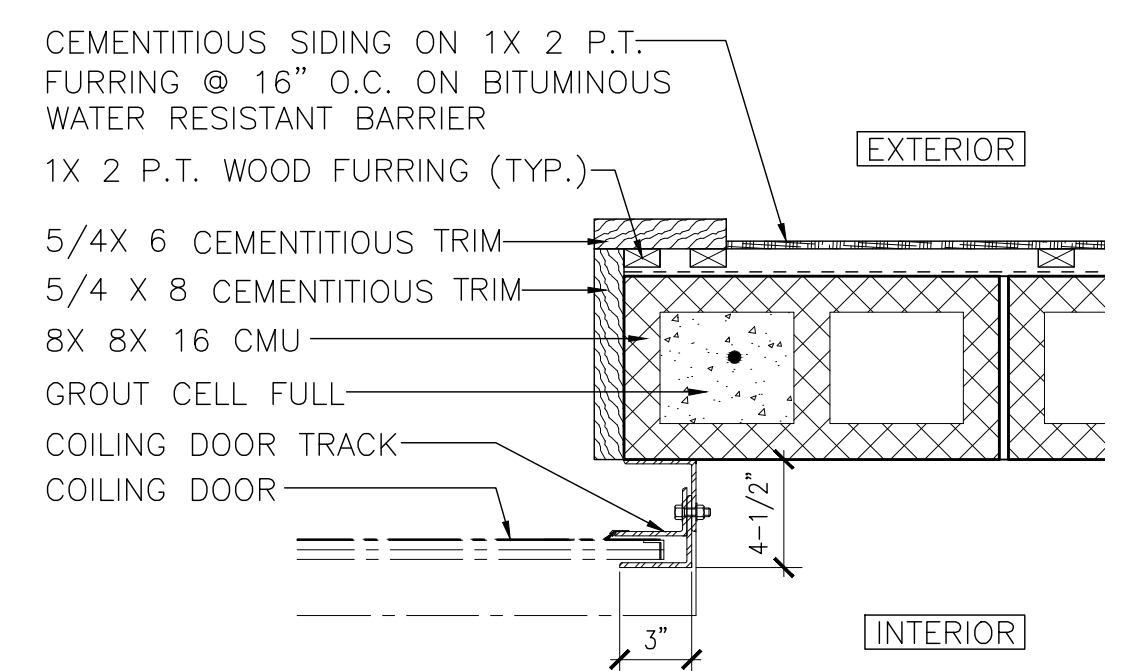


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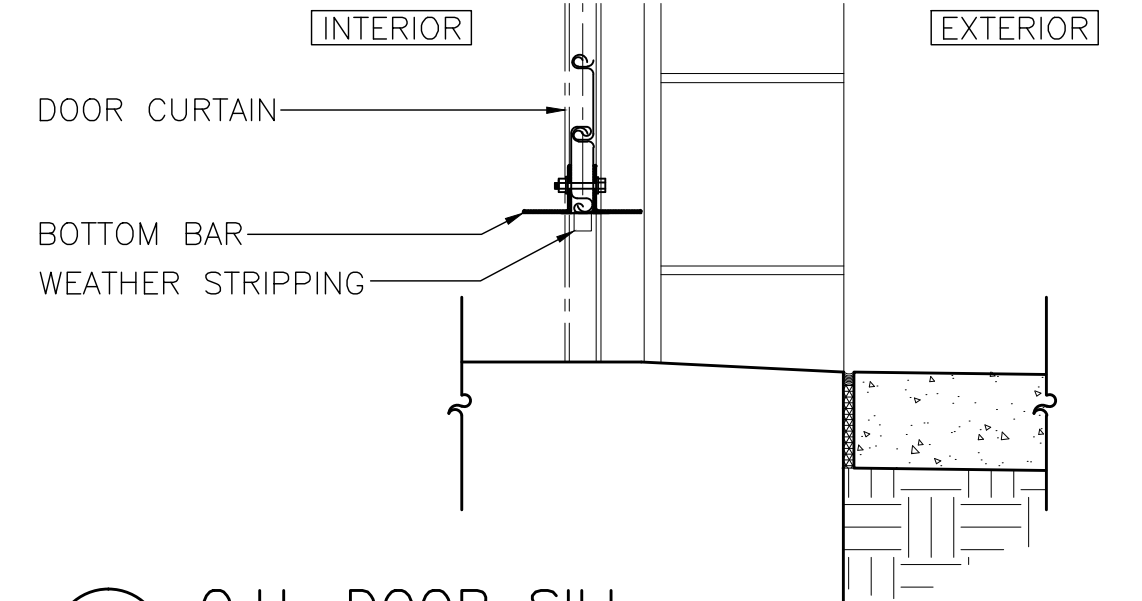


JAMB

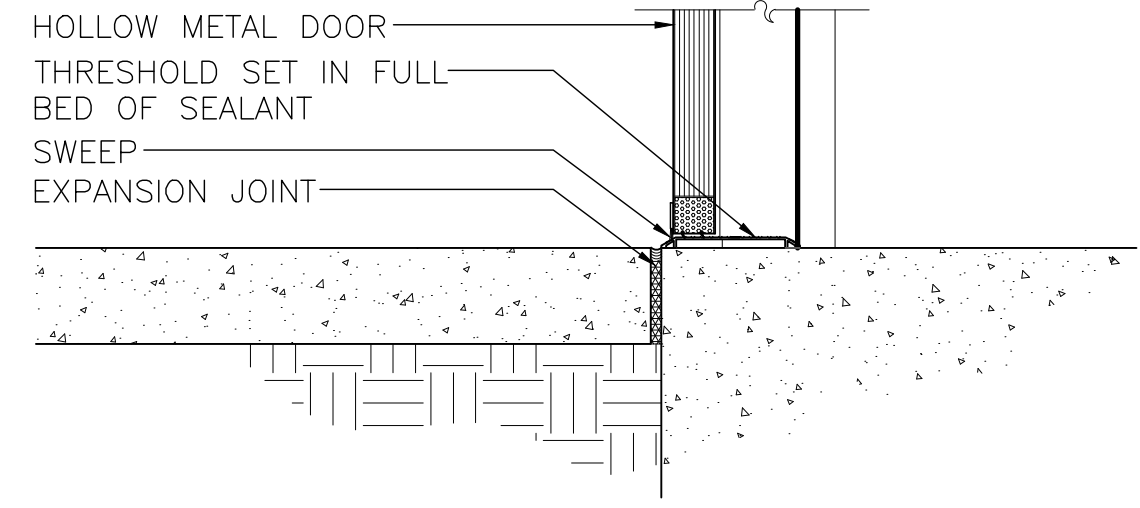
2 H.M. DOOR AT CMU
SCALE: 1-1/2" = 1'-0"



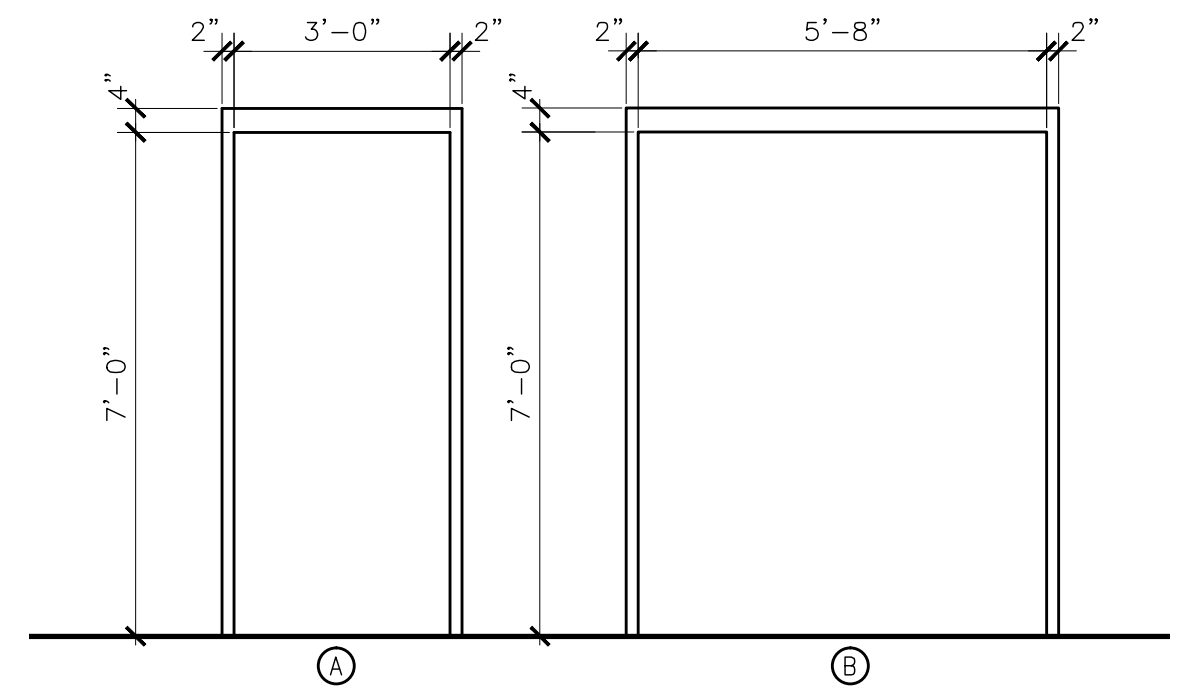
4 O.H. DOOR JAMB
SCALE: 1-1/2" = 1'-0"



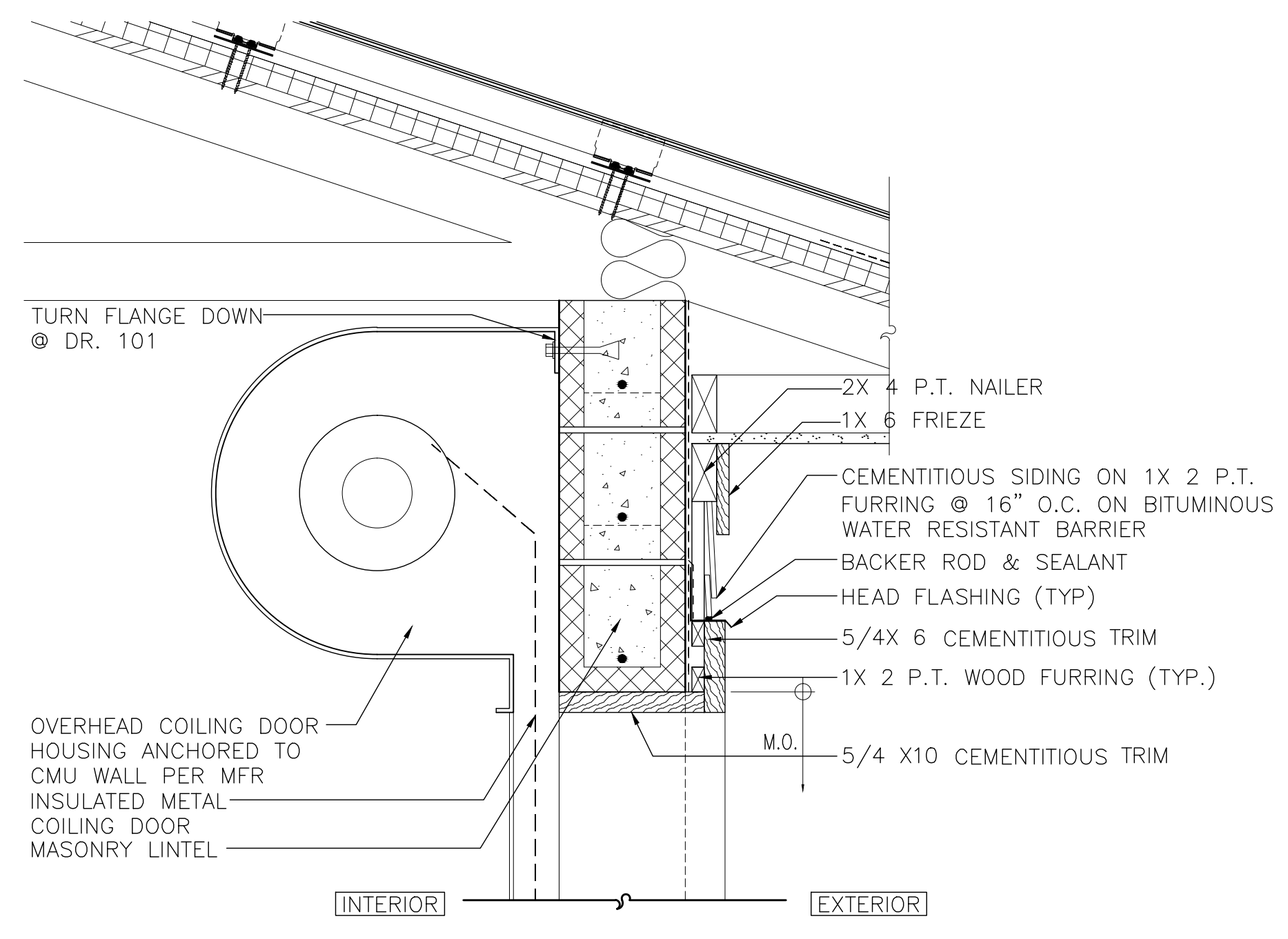
5 O.H. DOOR SILL
SCALE: 1-1/2" = 1'-0"



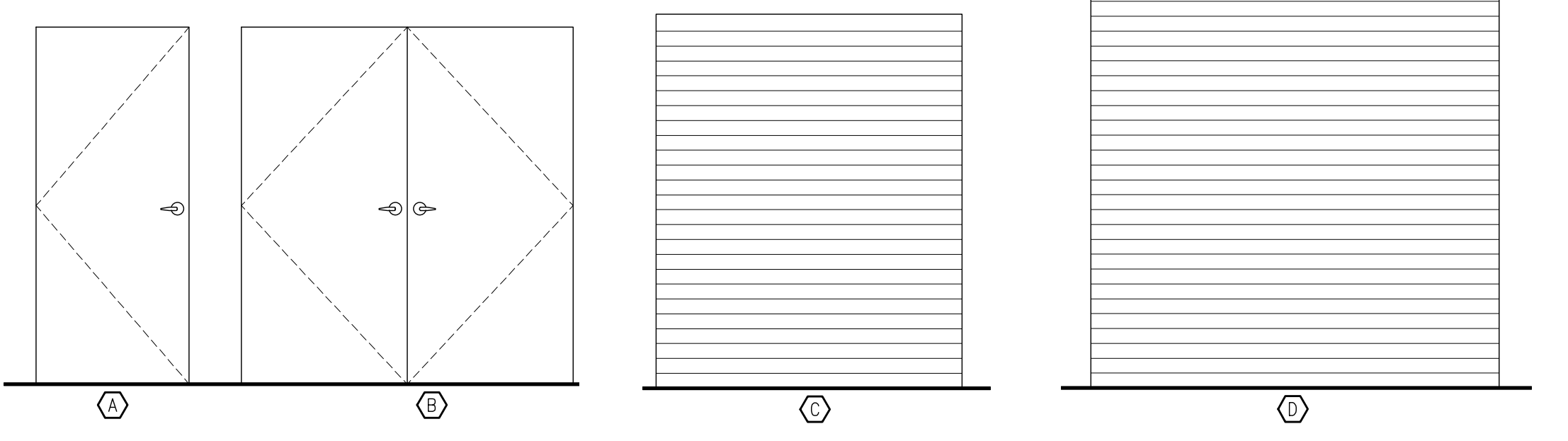
6 DOOR SILL DETAIL
SCALE: 1-1/2" = 1'-0"



FRAME ELEVATIONS
SCALE: 3/8" = 1'-0"



3 O.H. DOOR HEAD (SIMILAR @ DOOR 103A)
SCALE: 1-1/2" = 1'-0"



DOOR ELEVATIONS
SCALE: 3/8" = 1'-0"

OCP JOHN YOUNG PARK: STORAGE AND RESTROOM BUILDING

CONSULTANTS

DRAWING TITLE

PROJECT ADDRESS

REV. DESCRIPTION DATE

PROJECT NO. 14-124
PHASE BO PERMIT DOCUMENTS
SCALE AS NOTED
FILE NAME 14-124
DRAWN BY ERS, IMR
CHECKED BY JLR
DATE 09-30-14

SIGNATURE AND DATED SEAL

OWNER NAME AND ADDRESS
ORANGE COUNTY PARKS
400 E. SOUTH STREET
5TH FLOOR
ORLANDO, FLORIDA 32801

DATE

DATE

DATE

BORRELLI PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
770 VASSAR STREET
ORLANDO, FL. 32804 (407) 418-1338
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CONSULTANTS

DRAWING TITLE

PROJECT ADDRESS

OWNER NAME AND ADDRESS
ORANGE COUNTY PARKS
400 E. SOUTH STREET
5TH FLOOR
ORLANDO, FLORIDA 32801

REV. DESCRIPTION DATE

DATE

DOOR SCHEDULE AND DETAILS

A-503

SIGNATURE AND DATED SEAL

CONSULTANTS

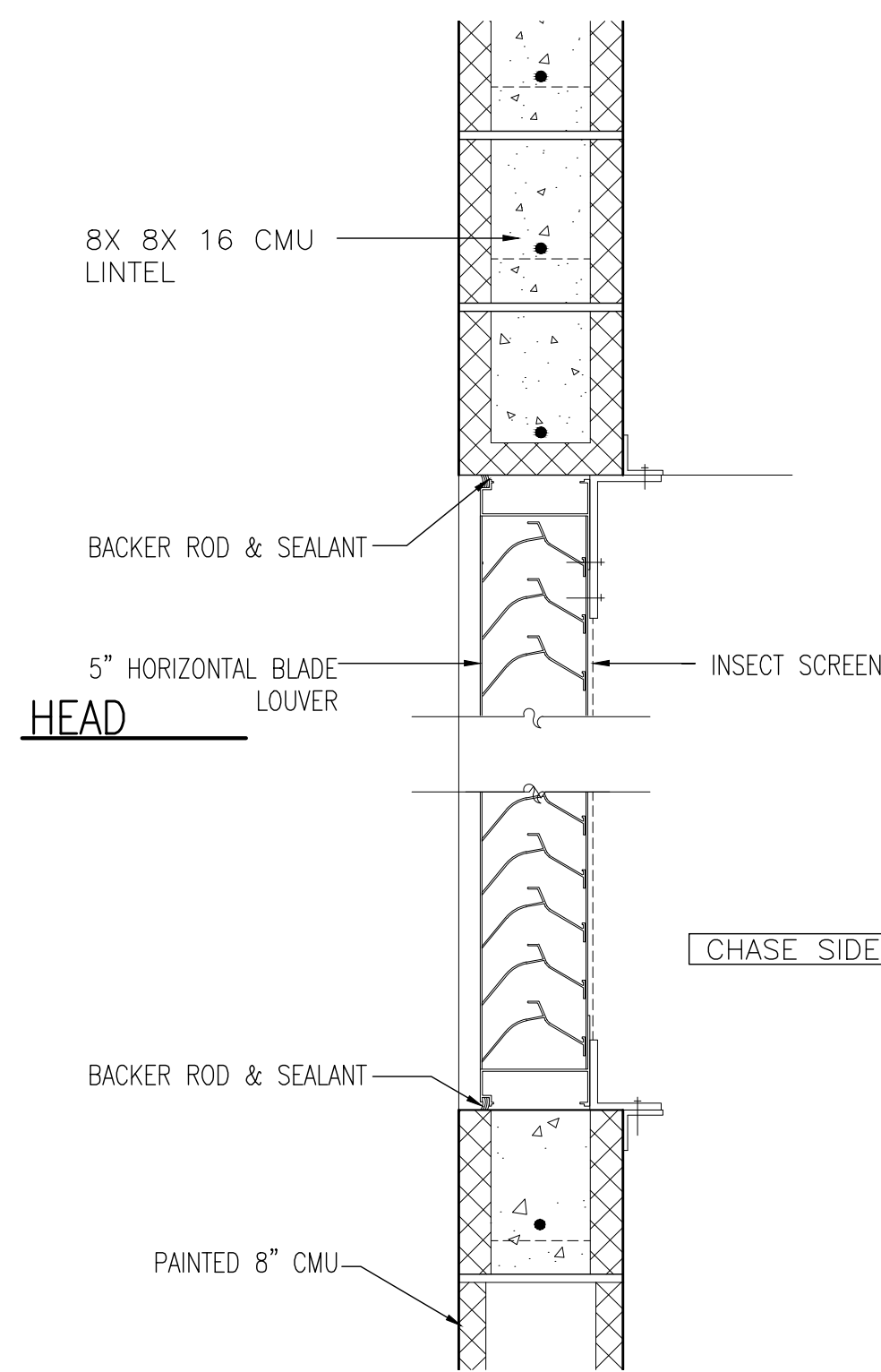
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PROJECT ADDRESS

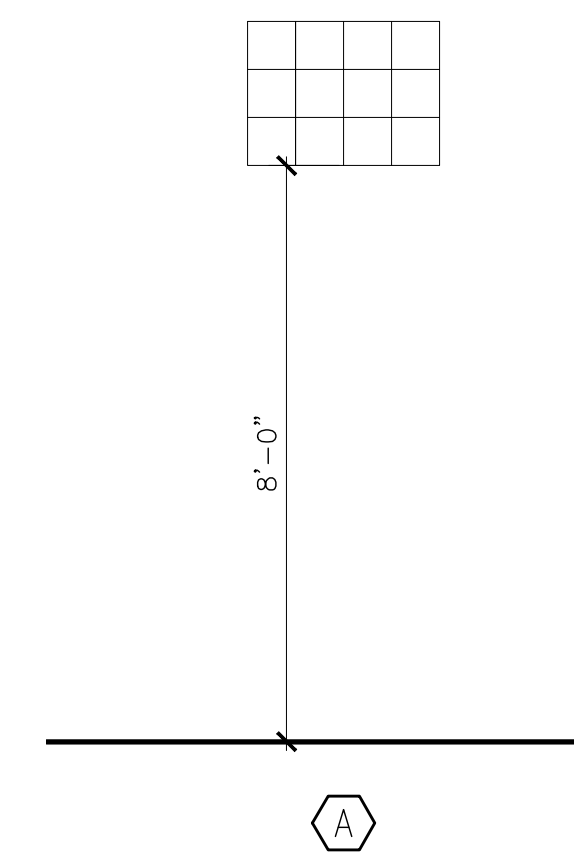
REV. DESCRIPTION DATE

DATE

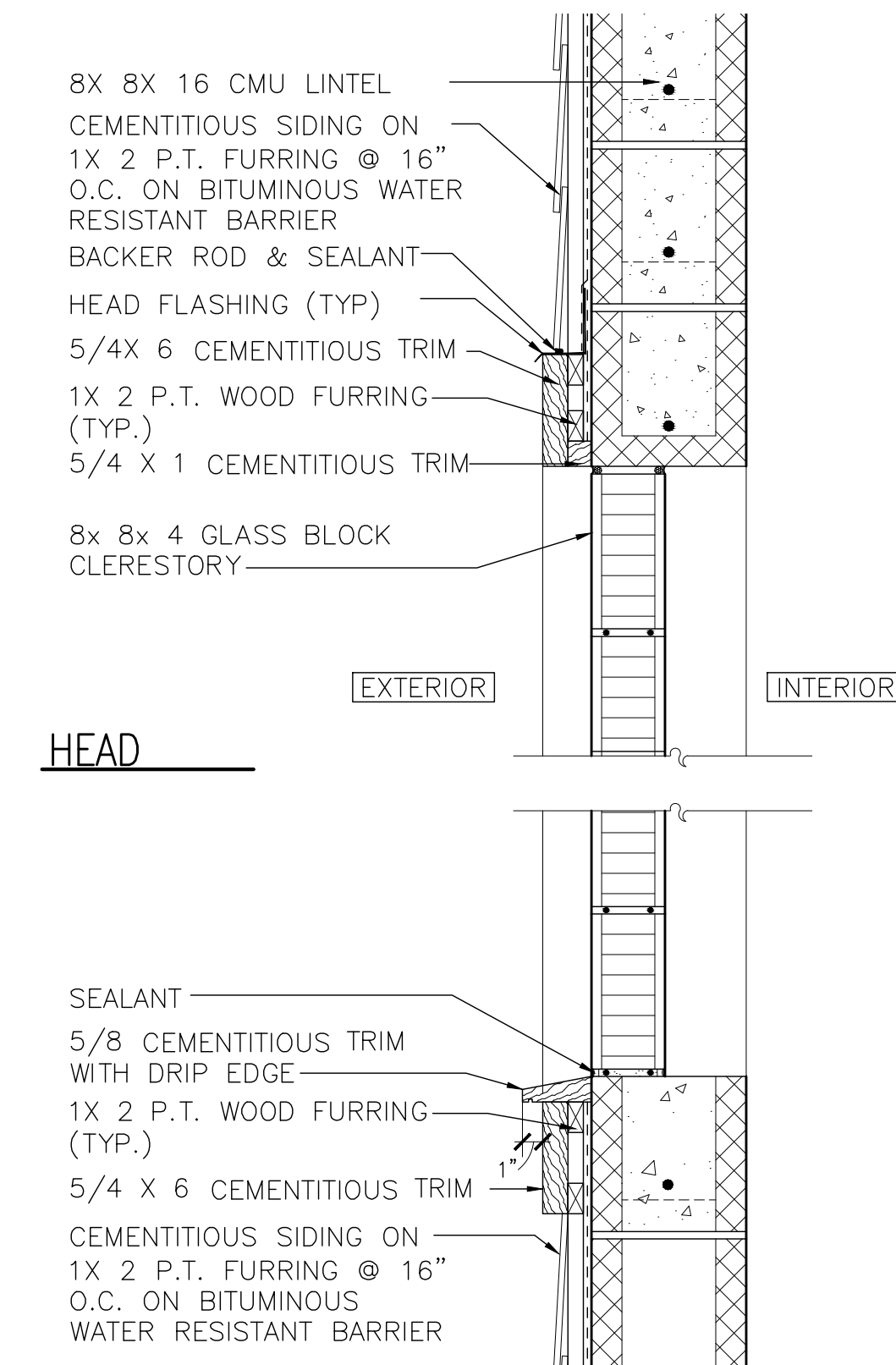
LOUVERS - GLASS BLOCK - WINDOW SCHEDULE						
NO.	DESCRIPTION	MATERIAL	NOMINAL WIDTH (M.O.)	NOMINAL HEIGHT (M.O.)	DETAILS	REMARKS
A	GLASS BLOCK CLERESTORY	ALUM/GLASS	2'-8"	2'-0"	2/A-504	
1 & 2	LOUVER	ALUM	1'-4"	1'-4"	1/A-504	



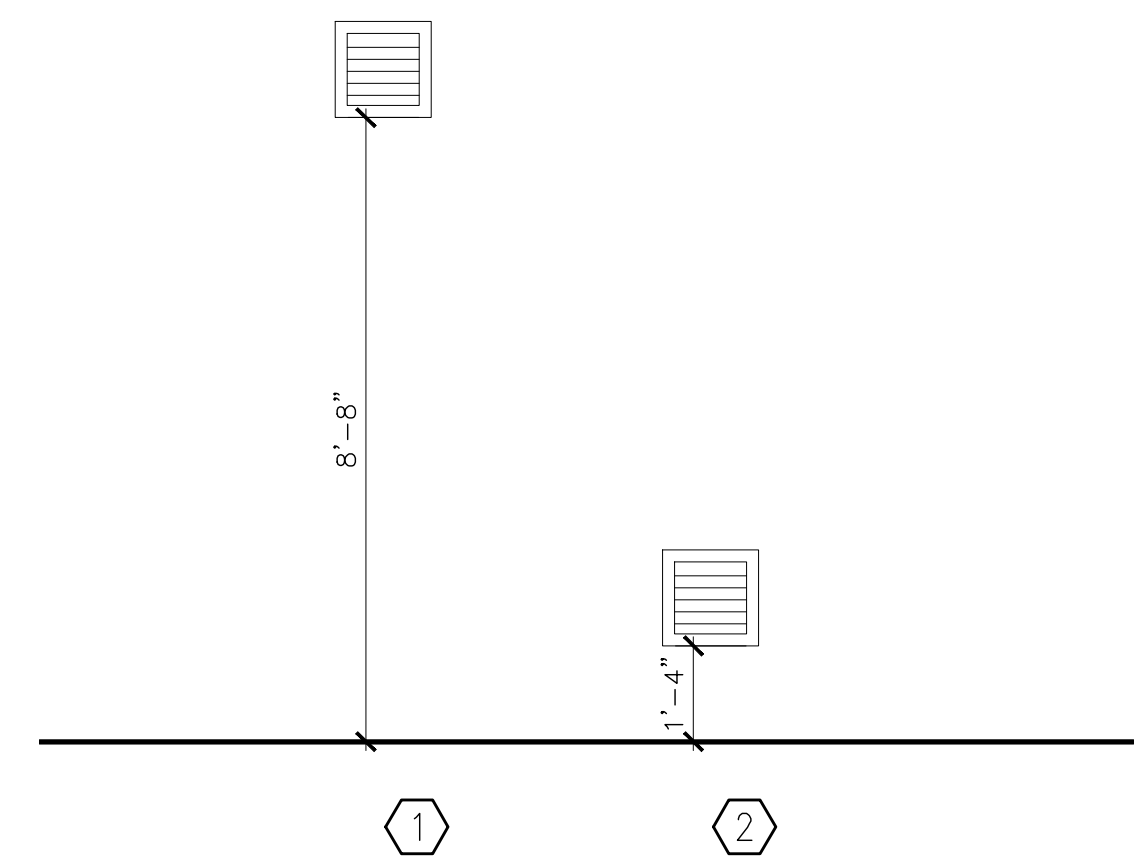
1 LOUVER DETAIL
 A-504 SCALE: 1-1/2" = 1'-0"



WINDOW ELEVATION
 SCALE: 3/8"=1'-0"



2 GLASS BLOCK DETAIL
 A-504 SCALE: 1-1/2" = 1'-0"



LOUVER ELEVATION
 SCALE: 3/8"=1'-0"

OCP JOHN YOUNG PARK: STORAGE AND RESTROOM BUILDING

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CONSULTANTS		
DRAWING TITLE		WINDOW SCHEDULE AND DETAILS
PROJECT ADDRESS	OWNER NAME AND ADDRESS	
DATE	ORANGE COUNTY PARKS	
DESCRIPTION	400 E. SOUTH STREET	
REV.	5TH FLOOR	
14-124	ORLANDO, FLORIDA 32801	
BO PERMIT DOCUMENTS		
AS NOTED		
14-124		
FILE NAME		
DRAWN BY	ERS, IMR	
CHECKED BY	JLR	
DATE	09-30-14	

A-504

HVAC SYMBOL LEGEND		
24x12	DUCT-FIRST DIM. IS WIDTH DUCT-SECOND DIM. IS HEIGHT	DUCT TAKE-OFF W/ VOLUME DAMPER
[Symbol]	DUCT ELBOW DOWN	POINT OF CONNECTION NEW TO EXISTING WORK
[Symbol]	DUCT ELBOW UP	POINT OF EXTENT OF REMOVAL OF EXISTING HVAC
[Symbol]	DUCT RISE	THERMOMETER
[Symbol]	DUCT DOWN	PRESSURE GAUGE
[Symbol]	DUCT UNDER POSITIVE PRESSURE	UNION OR FLANGE
[Symbol]	DUCT UNDER NEGATIVE PRESSURE	BALL OR BUTTERFLY VALVE
[Symbol]	ELBOW W/TURNING VANES	CHECK VALVE
[Symbol]	TAKE-OFF W/EXTRACTOR	MODULATING CONTROL VALVE
[Symbol]	FLEXIBLE DUCT	TWO POSITION CONTROL VALVE
[Symbol]	FLEXIBLE CONNECTION	PLUG VALVE W/ MEMORY
[Symbol]	SUPPLY AIR TERMINAL ARROW INDICATES THROW	FLEXIBLE PIPE
[Symbol]	RETURN OR EXHAUST AIR	STRAINER
[Symbol]	LINEAR DIFFUSERS	MANUAL AIR VENT
[Symbol]	SIDE MOUNTED EHD	AUTOMATIC AIR VENT
[Symbol]	BOTTOM MOUNTED EHD	3/4" HOSE END DRAIN PIPE
[Symbol]	FIRE DAMPER	CHWS - CHILLED WATER SUPPLY
[Symbol]	SMOKE DAMPER	CHWR - CHILLED WATER SUPPLY
[Symbol]	S/F SMOKE AND FIRE DAMPER	HWS - HOT WATER SUPPLY
[Symbol]	VOLUME DAMPER	HWR - HOT WATER RETURN
[Symbol]	REMOTE VOLUME DAMPER	RHG - REFRIGERANT HOT GAS
[Symbol]	MOTORIZED DAMPER	RL - REFRIGERANT LIQUID
[Symbol]	BACKDRAFT DAMPER	RS - REFRIGERANT SUCTION
[Symbol]	SMOKE DETECTOR (DUCT MOUNTED)	D - CONDENSATE DRAIN
[Symbol]	CEILING ACCESS DOOR	PIPE ELBOW DOWN
[Symbol]	DUCT ACCESS DOOR	PIPE ELBOW UP
[Symbol]	HUMIDITY SENSOR	PIPE ELBOW
[Symbol]	ROOM SENSOR	PIPE TEE DOWN
[Symbol]	THERMOSTAT	PIPE TEE UP
[Symbol]		ROUND

HVAC ABBREVIATIONS			
AC	AIR CONDITIONING	HD	HUB DRAIN
AHU	AIR HANDLING UNIT	HOA	HAND/OFF/AUTOMATIC
AFF	ABOVE FINISHED FLOOR	HP	HORSEPOWER
BDD	BACKDRAFT DAMPER	HVAC	HEATING, VENTILATING & AIR CONDITIONING
BHP	BRAKE HORSEPOWER	H2O	WATER
BMS	BUILDING MANAGEMENT SYSTEM	INIT	INITIAL
BTU	BRITISH THERMAL UNIT	KSU	KITCHEN AIR SUPPLY UNIT
CF	CHEMICAL FEEDER	LAT	L.V.G. AIR TEMPERATURE
CFM	CUBIC FEET PER MINUTE	LD	LINEAR DIFFUSER
CLG	CEILING	LR	LINEAR RETURN
CYC	CYCLES	LVG	LEAVING
COND	CONDENSATE	LWT	L.V.G. WATER TEMPERATURE
CC	COOLING COIL	MAU	MAKE UP AIR UNIT (KITCHEN HOOD)
CD	CEILING DIFFUSER	MBH	MEGA BTU PER HOUR
CG	CEILING GRILLE	MD	MOTORIZED DAMPER
DIM	DIMENSION	NC	NOISE CRITERIA
DB	DRY BULB	NIC	NOT IN CONTRACT
'F	DEGREES FARENHEIT	OA	OUTSIDE AIR
DWG	DRAWING	OPER	OPERATING
EA	EXHAUST AIR	OV	OUTLET VELOCITY
EAT	ENTERING AIR TEMPERATURE	PCF	PUMP, CHEMICAL FEED
EG	EXHAUST AIR GRILLE	PCH	PUMP, CHILLED WATER
EHC	ELECTRIC HEATING COIL	PD	PRESSURE DROP
EHD	ELECTRIC HEATER, DUCT	PH	PHASE
EHU	ELECTRIC UNIT HEATER	RG	RETURN AIR GRILLE
EHW	ELECTRIC HEATER, WALL	ROT	ROTATION
ENT	ENTERING	RPM	REVOLUTION PER MINUTE
ER	EXHAUST AIR REGISTER	RVD	REMOTE VOLUME DAMPER
ENT	ENT. WATER TEMPERATURE	SA	SUPPLY AIR
F	FILTER	SENS	SENSIBLE
FCU	FAN COIL UNIT	SD	SPLITTER DAMPER
EF	EXHAUST FAN	SP	STATIC PRESSURE
EFG	EXHAUST FAN, GREASE	SR	SUPPLY AIR REGISTER
FF	FLY FAN	TG	TRANSFER AIR GRILLE
FPI	FINS PER INCH	TEMP	TEMPERATURE
FPM	FEET PER MINUTE	UD	UNDERCUT DOOR
FR	FAN, RETURN	VG	VENT, GRAVITY
SF	SUPPLY FAN	W	WATTS
GPM	GALLONS PER MINUTE	WB	WET BULB
		W/	WITH

HVAC GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODE, THE 2010 FLORIDA MECHANICAL CODE, THE 2010 FLORIDA ENERGY EFFICIENCY CODE AND THE ORANGE COUNTY BUILDING DEPARTMENT REQUIREMENTS AND ALL OTHER APPLICABLE CODES AND STANDARDS.
- REFER TO ARCHITECTURAL DRAWINGS FOR CLEARANCES WITHIN THE CEILING SPACE, MECHANICAL ROOMS, LOCATIONS AND SIZES OF BEAMS AND CEILING AND SOFFIT HEIGHTS.
- DUCTWORK AND EQUIPMENT LOCATIONS AND CLEARANCES SHALL BE COORDINATED WITH GENERAL, PLUMBING AND ELECTRICAL CONTRACTORS. REFER TO ARCHITECTURAL PLANS FOR BUILDING SECTIONS AND DETAILS.
- CONNECTION TO ALL EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURERS CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR ALL EQUIPMENT FURNISHED.
- COORDINATE DIFFUSER, REGISTER AND GRILLE LOCATION WITH LIGHTING LOCATIONS AND ARCHITECTURAL CEILING PLANS. ALSO COORDINATE THE TYPE OF DIFFUSER FRAME WITH THE CEILING TYPE.
- ALL EQUIPMENT SHALL BE PROPERLY SUPPORTED AND ISOLATED TO PREVENT NOISE AND VIBRATION TRANSMISSION. ALL AIR HANDLING EQUIPMENT SHALL BE SUPPORTED OR SUSPENDED WITH SPRING VIBRATION ISOLATORS PADS. ALL CONNECTIONS BETWEEN AIR HANDLING EQUIPMENT AND DUCTWORK SHALL BE CANVAS FLEXIBLE CONNECTORS.
- ALL MECHANICAL EQUIPMENT SHALL BE LOCATED WITH RESPECT TO BUILDING CONSTRUCTION AND OTHER EQUIPMENT SO AS TO PERMIT ACCESS TO THE MECHANICAL EQUIPMENT IN CONFORMITY WITH ANY CLEARANCE WHICH MAY BE RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT. SUFFICIENT CLEARANCE SHALL BE MAINTAINED FOR CLEANING COILS, MOTORS, BURNERS, AS WELL AS CHANGING FILTERS. ALL EQUIPMENT SHALL BE LOCATED WITHIN THE MECHANICAL ROOM AND CEILING SPACES WITH ADEQUATE CLEARANCES FOR REPAIR AND MAINTENANCE. ALL PIPING AND DUCTWORK SHALL BE INSTALLED TO PROVIDE ADEQUATE CLEARANCE FOR ACCESS TO ALL EQUIPMENT. INSTALLATION OF ALL MECHANICAL EQUIPMENT SHALL COMPLY WITH THE MANUFACTURERS SPECIFICATION AND CLEARANCE REQUIREMENT.
- ALL DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.
- THE INSIDE OF ALL DUCTS VISIBLE THRU THE FACE OF DIFFUSERS, REGISTERS, AND GRILLES SHALL BE PAINTED FLAT BLACK WITH NON TOXIC PAINT.
- ALL EXHAUST AIR DUCTWORK SHALL BE GALVANIZED STEEL SHEETS. FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF SMACNA DUCT CONSTRUCTION STANDARDS FOR A 2 INCH PRESSURE CLASSIFICATION.
- FLEXIBLE DUCTWORK SHALL BE INSULATED VINYL TYPE (R-6) WITH WIRE SPIRAL SUPPORT. FLEXIBLE DUCTWORK SHALL BE RUN IN MAXIMUM LENGTHS OF 12'-0". FLEXIBLE DUCTWORK SHALL BE PROPERLY SUPPORTED WITH GALVANIZED STEEL STRIPS 2" WIDE AND SHALL BE RUN AS STRAIGHT AS POSSIBLE WITH NO KINKS OR BENDS TO RESTRICT AIRFLOW.
- ALL DUCT JOINTS SHALL BE SEALED WITH APPROVED MASTIC.
- PROVIDE HANGER STRAPS FOR ALL DUCTS MADE OF 2" WIDE, 22 GAGE GALVANIZED STEEL-SPACED ACCORDING TO SMACNA STANDARDS AND ALL OTHER APPLICABLE GOVERNING CODES AND STANDARDS.
- ALL DUCTWORK STORED ON SITE OR ALREADY INSTALLED SHALL HAVE ALL OPEN ENDS SEALED WITH VISQUINE TO PREVENT DUST AND DEBRIS FROM ACCUMULATING INSIDE OF THE DUCTWORK. INTERIORS OF ALL DUCTWORK SHALL BE THOROUGHLY CLEANED PRIOR TO INSTALLATION.
- ALL DAMPERS AND EXTRACTORS SHALL HAVE LOCKING QUADRANTS AND SHALL BE ACCESSIBLE.
- PROVIDE REMOTE VOLUME DAMPER (RVD) OPERATORS IN ALL NON-ACCESSIBLE CEILINGS. EQUAL TO YOUNG REGULATOR COMPANY MODEL 270-896C BOWDEN CABLE CONTROL UNIT OR METROPOLITAN AIR. CONTROL FOR EACH REMOTE VOLUME DAMPER SHALL BE LOCATED WITHIN THE DIFFUSER OR REGISTER BEING SERVED.
- BEVELED TAKE OFF'S AND DAMPERS SHALL BE INSTALLED IN ALL BRANCH DUCTWORK LEADING FROM MAIN TRUNK LINES.
- ALL SPLITTER DAMPERS SHALL BE BALANCED AND SET PRIOR TO THE INSTALLATION OF THE CEILING.
- ALL WALL LOUVERS SHALL HAVE A BIRD SCREEN SHALL BE ALUMINUM CONSTRUCTION AND SHALL BE FLORIDA PRODUCT APPROVED.
- PROVIDE ADJUSTABLE PULLEYS WITH CONSTANT VOLUME AIR HANDLING UNITS AND BELT DRIVE FANS.
- EXHAUST FAN OUTLETS SHALL BE INSTALLED A MINIMUM OF 10'-0" FROM FRESH AIR INTAKES OF MECHANICAL EQUIPMENT AS WELL AS ALL OPERABLE WINDOWS AND DOORS.
- ALL FANS SHALL BE PROPERLY SUPPORTED AND ISOLATED TO PREVENT NOISE AND VIBRATION TRANSMISSION. ALL AIR HANDLING EQUIPMENT SHALL BE SUPPORTED OR SUSPENDED WITH SPRING ISOLATORS. ALL CONNECTIONS BETWEEN FANS OR AIR HANDLING UNITS AND DUCTWORK SHALL BE CANVAS FLEXIBLE CONNECTORS.
- ALL EQUIPMENT LOCATED WITHIN THE CEILING SPACES SHALL HAVE ADEQUATE CLEARANCES FOR REPAIR AND MAINTENANCE. ALL PIPING AND DUCTWORK SHALL BE INSTALLED TO PROVIDE ADEQUATE CLEARANCE FOR ACCESS TO ALL EQUIPMENT.
- ALL WALL SENSORS, VARIABLE SPEED CONTROL SWITCHES, ON-OFF SWITCHES AND MOTOR STARTERS SHALL BE INDIVIDUALLY LABELED. LABELS SHALL INDICATED THE UNIT CONTROLLED, TYPE OF CONTROL AND AREA SERVED. THE LABELS SHALL BE PLASTIC LAMINATE, PERMANENT TYPE, WHITE WITH BLACK LETTERING, AND SHALL BE MOUNTED INSIDE OF THE COVER PLATE, OF THE CONTROL DEVICE.
- FURNISH ALL DIRECT DRIVE EXHAUST FANS WITH SOLID STATE VARIABLE SPEED CONTROLLER. MOUNT CONTROLLER TO FAN CABINET IN CEILING SPACE OR PLUMBING CHASE.
- FURNISH ALL EXHAUST FANS WITH BACK DRAFT DAMPERS.
- COORDINATE ALL CONTROL DEVICES WITH THE ELECTRICAL CONTRACTOR.
- ALL CONTROL WIRING, CONDUIT AND HARDWARE TO COMPLETE THE HVAC CONTROL SYSTEM SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 15 - MECHANICAL.
- ALL CONTROL WIRING AND INTERLOCK WIRING LOCATED IN MECHANICAL ROOMS AND IN NON ACCESSIBLE CEILING SHALL BE IN CONDUIT.
- ALL HVAC SYSTEM'S AIRFLOW SHALL BE BALANCED BASED ON THE ACTUAL INSTALLED STATIC PRESSURE OF THE SYSTEM. CONTRACTOR SHALL PROVIDE POSITIVE MEANS FOR BALANCING EACH INDIVIDUAL AIR OUTLET AND INLET.
- THE CONTRACTOR SHALL HIRE AN INDEPENDENT TEST AND BALANCE FIRM TO TEST AND BALANCE ALL AIR CONDITIONING SYSTEMS-SEE SPECIFICATIONS. THE TEST & BALANCE CONTRACTOR SHALL BE CERTIFIED BY NABA OR ABAA.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE TEST AND BALANCE FIRM. PRIOR TO TEST AND BALANCE, THE CONTRACTOR SHALL START-UP, PRE-BALANCE THE SYSTEM, AND REPLACE ALL AIR FILTERS FOR EVERY AHU BEING TESTED. ALL DISCREPANCIES, DRIVE CHANGES, ETC. REPORTED BY ENGINEER OR THE TEST AND BALANCE FIRM SHALL BE CORRECTED BY THE CONTRACTOR WITHIN FIVE CALENDAR DAYS AT NO ADDITIONAL COST.

SPECIAL O.C. BUILDING DEPARTMENT HVAC NOTES

- ALL DUCTWORK SHALL BE SUPPORTED PER CODE. PROVIDE HANGER STRAPS FOR ALL DUCTS MADE OF 2" WIDE, 22 GAGE GALVANIZED STEEL. SPACE SUPPORT STRAPS ACCORDING TO SMACNA GUIDELINES AND THE ORANGE COUNTY BUILDING DEPARTMENT REQUIREMENTS.
- ALL SUPPLY AIR, RETURN AIR AND EXHAUST AIR DUCTWORK SHALL BE GALVANIZED STEEL SHEETS. FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA DUCT CONSTRUCTION STANDARDS FOR A 2" PRESSURE CLASSIFICATION. ALL DUCT JOINTS SHALL BE MECHANICALLY FASTENED AND SEALED TO 100% CLOSURE WITH MASTIC. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA GUIDELINES AND THE ORANGE COUNTY BUILDING DEPARTMENT.
- ALL REGISTERS, GRILLES AND DIFFUSERS SHALL HAVE A MINIMUM FLAME SPREAD RATING OF NOT OVER 25 AND A MINIMUM SMOKE DEVELOPED RATING OF NOT OVER 50 AND SHALL BE IN COMPLIANCE WITH SECTIONS 603.15 AND 603.15.1 OF THE 2010 FLORIDA MECHANICAL CODE - LATEST EDITION.
- ALL FLEXIBLE AND RIGID BRANCH DUCTS SERVING INDIVIDUAL REGISTERS, GRILLES AND DIFFUSERS SHALL HAVE BALANCING DAMPERS AT THE CONNECTION TO THE MAIN TRUNK DUCT.
- REFER TO THE FLOOR PLAN AND AIR BALANCE SCHEDULES FOR OVERALL BUILDING AIR BALANCE AND EXHAUST AIR TO EACH SPACE.

FAN SCHEDULE

UNIT NUMBER	PERFORMANCE DATA						CONSTRUCTION DATA				MOTOR DATA				ELECTRICAL			MANUFACTURER/MODEL	WEIGHT (LBS)	NOTES
	CFM	SP	OV (FPM)	RPM	SONES	BHP	FAN TYPE	CLASS	ROT	DISCH	HP	WATTS	START TYPE	VOLTS	PHASE	CYCLES				
EF-1.1	1300	.375"	—	900	4.6	0.25	INLINE CENTRIFUGAL	—	—	—	0.28	—	—	120	1	60	LOREN COOK GN-920 OR EQUAL	86	1-3	
EF-1.2	330	.25"	—	1205	5.5	—	CEILING MOUNTED CENTRIFUGAL	—	—	—	172	—	—	120	1	60	LOREN COOK GC-520 OR EQUAL	32	1-3	
EF-1.3	100	.25"	—	1200	1.5	—	CEILING MOUNTED CENTRIFUGAL	—	—	—	65	—	—	120	1	60	LOREN COOK GC-240 OR EQUAL	22	1-4	

NOTES

- FURNISH FAN WITH BACKDRAFT DAMPER.
- FURNISH FAN WITH ROOF CAP.
- FURNISH FAN WITH SOLID STATE VARIABLE SPEED CONTROLLER. MOUNT CONTROLLER TO FAN CABINET IN AN ACCESSIBLE LOCATION.
- FURNISH FAN WITH WALL MOUNTED THERMOSTAT.

AIR GRILLE + REGISTER SCHEDULE

UNIT NUMBER	SERVICE	MOUNT	C.F.M. RANGE	SIZE L"xH"	N.C. MAX	FRAME	MAX. P.D. IN. W.G.	PATTERN	DAMPER	GRID	CONSTRUCTION	FINISH	MANUFACTURER/MODEL	NOTES
ER-1	EXHAUST	CLG	SEE DWG	SEE DWG	20	SURFACE	0.073	EGG CRATE	NO	1/2"	ALUMINUM	WHITE	TITUS 50F/PRICE 80 OR EQUAL	1,2

- ALL GRILLES, REGISTERS AND DIFFUSERS SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50 IN COMPLIANCE WITH SECTIONS 603.15 AND 603.15.1 OF THE FLORIDA BUILDING CODE.
- PAINT FLAT BLACK INSIDE OF DUCTS BEHIND GRILLES.

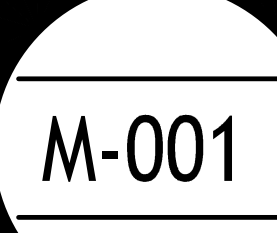
OCP JOHN YOUNG PARK: STORAGE AND RESTROOM BUILDING

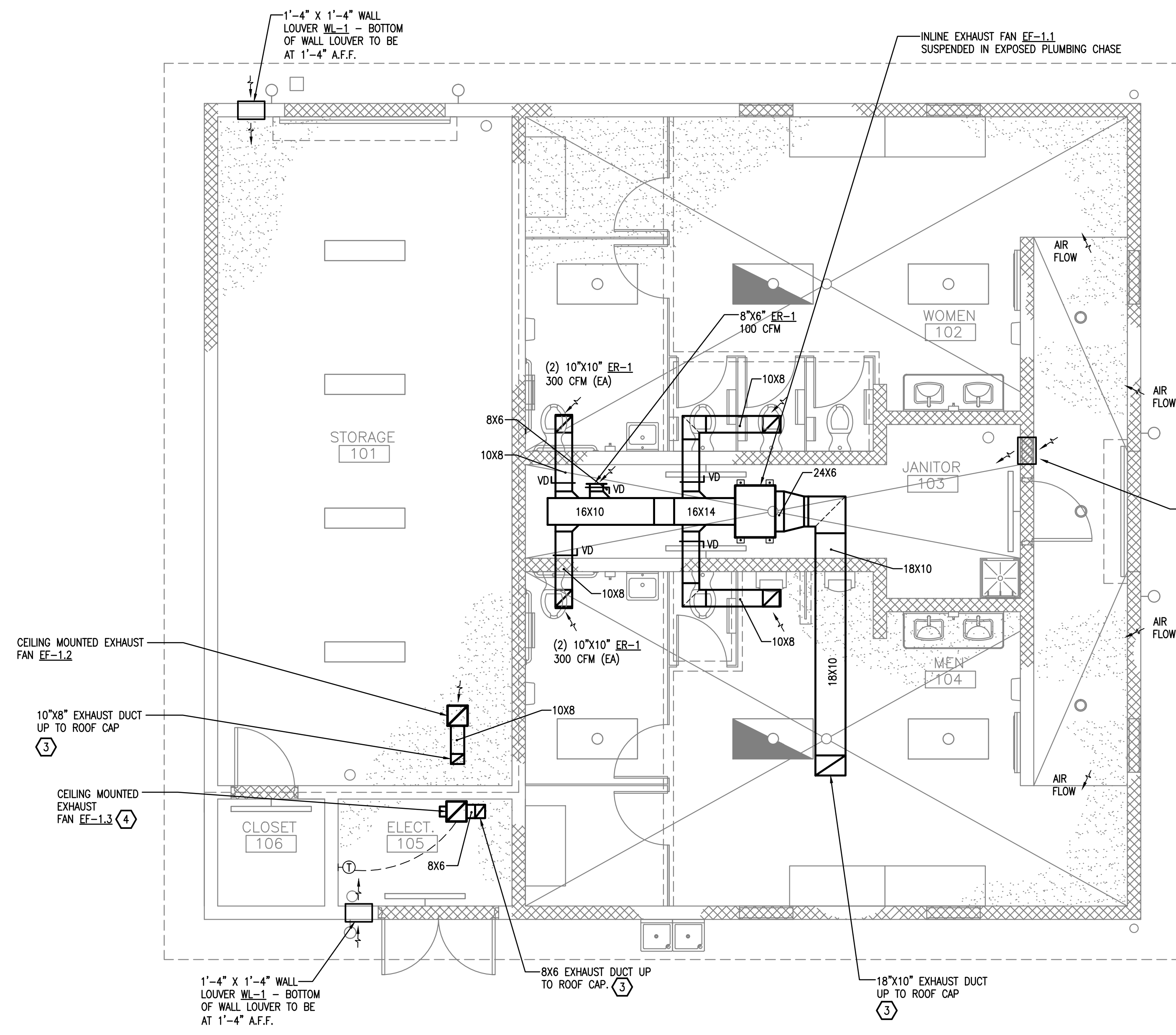
PROJECT NO.	14-124
PHASE	80% PERMIT DOCUMENTS
SCALE	1/4"=1'-0"
FILE NAME	13-124-C-01
DRAWN BY	ME
CHECKED BY	ABJ
DATE	09-30-14

REV.	DESCRIPTION	DATE
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PROJECT ADDRESS	ORANGE COUNTY PARKS
DRAWING TITLE	HVAC GENERAL NOTES, SYMBOLS AND SCHEDULES

PROJECT ADDRESS: ORANGE COUNTY PARKS
 OWNER NAME AND ADDRESS: ORANGE COUNTY PARKS, 400 E. SOUTH STREET, 5TH FLOOR, ORLANDO, FLORIDA 32801
 CONTRACTOR: BOBELL PARTNERS ARCHITECTURE, PLANNING, LANDSCAPE INTERIORS, 770 YASSER STREET, ORLANDO, FL 32804 (407) 418-1138
 CONSULTANTS: BOBES ASSOCIATES CONSULTING ENGINEERS, 1100 WINDY HILL ROAD, 407-245-5000, FL 32791, FLORIDA STATE LICENSE NUMBER: 6331
 AUGUSTO E. BOBES, JR., P.E., FLORIDA P.E. # 39410





HVAC KEY NOTES

- ① RUN REFRIGERANT LINES IN 4" PVC CONDUIT UNDERSLAB AND UNDERGROUND.
- ② CONTRACTOR TO PROVIDE INDIVIDUAL SECURITY CAGE FOR ALL OUTDOOR CONDENSING UNITS/HEAT PUMP UNITS.
- ③ CONTRACTOR TO COORDINATE ALIGNMENT OF ROOF CAP IN BETWEEN RIDGES OF STANDING SEAM METAL ROOF.
- ④ COORDINATE EXACT LOCATION OF EXHAUST FAN ELECTRICAL ROOM EQUIPMENT - DO NOT INSTALL FAN DIRECTLY ABOVE DOOR PANELS.

1 FLOOR PLAN - HVAC
M-101 1/4"=1'-0"

**SEQUENCE OF OPERATION
EXHAUST FANS
EF-1.1 AND EF-1.2**

ALL EXHAUST FANS SHALL BE MONITORED (ON/OFF STATUS) AND CONTROLLED BY THE BAS SYSTEM.

ALL EXHAUST FANS SHALL BE OFF DURING BUILDING UNOCCUPIED HOURS.

EXHAUST FANS EF-1.1 AND EF-1.2 SHALL BE CONTROLLED BY A TIME CLOCK AND SHALL OPERATE DURING BUILDING OCCUPIED HOURS.

UNOCCUPIED:

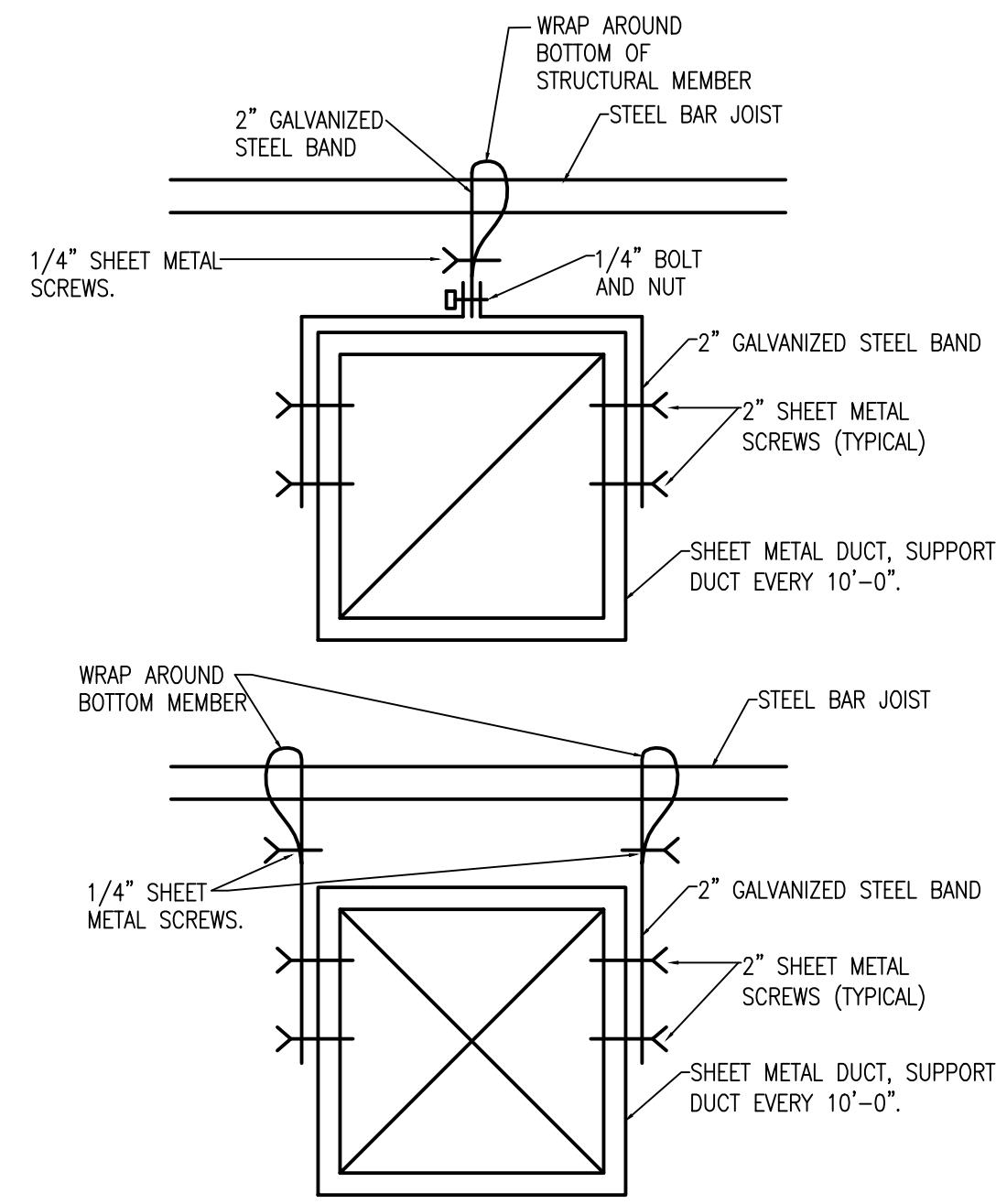
ALL EXHAUST FANS SHALL MOVE TO THE OFF POSITION.

EF-1.3

EXHAUST FAN EF-1.3 SHALL BE CONTROLLED BY A WALL MOUNTED THERMOSTAT LOCATED IN THE ELECTRICAL ROOM.

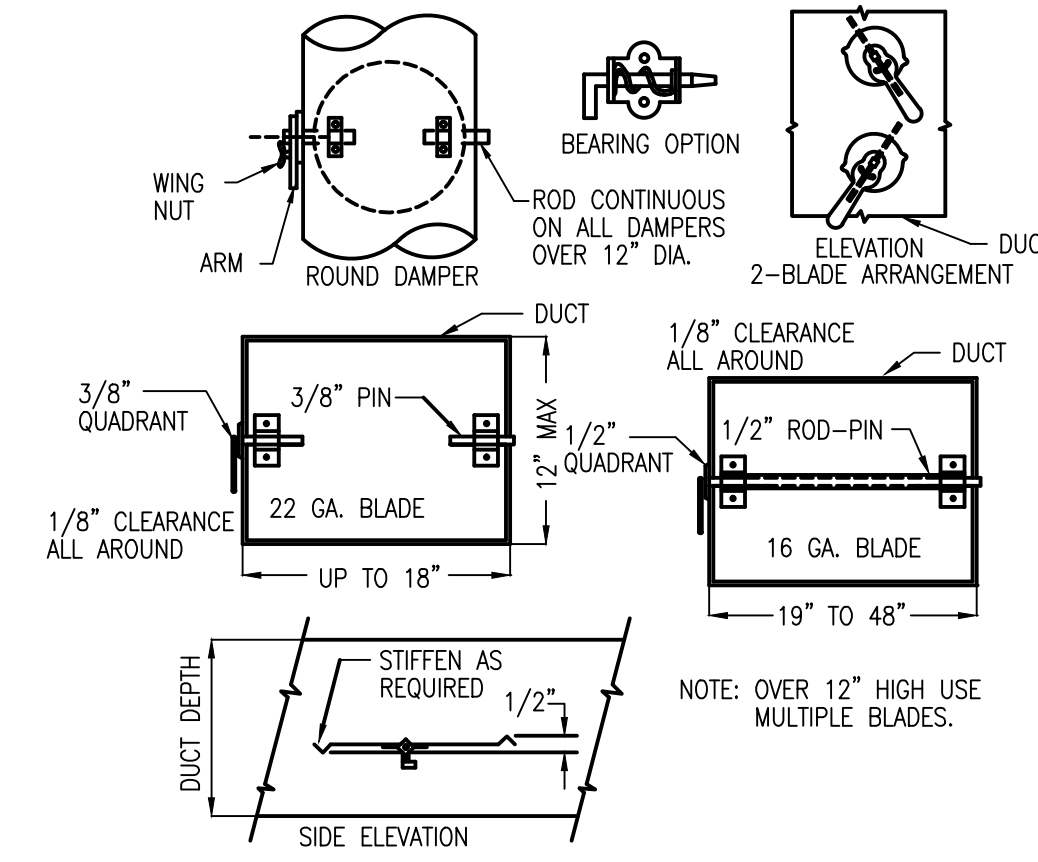
OCP JOHN YOUNG PARK: STORAGE AND RESTROOM BUILDING

BORELLI PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIOR 720 VASSAR STREET ORLANDO, FL 32804 (407) 418-1338 <small>CONVENTIONAL AND NON-CONVENTIONAL PROJECTS COMMERCIAL, RESIDENTIAL, EDUCATIONAL, HEALTH CARE, INDUSTRIAL, INSTITUTIONAL, LEISURE, OFFICE, RETAIL, SPECIALTY PARTICIPATION AS SHARED BY THE ARCHITECT. COPYRIGHT BORELLI PARTNERS, A/C 2011</small>		BOBES ASSOCIATES CONSULTING ENGINEERS 1111 ORANGE AVENUE, SUITE 200 ORLANDO, FL 32814 FLORIDA STATE REG. NUMBER: 8131
DRAWING TITLE <h2 style="margin: 0;">FLOOR PLAN HVAC</h2>	PROJECT ADDRESS ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801	OWNER NAME AND ADDRESS ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801
PROJECT NO. 14-124 PHASE BR/PERMIT DOCUMENTS SCALE 1/4"=1'-0" FILE NAME 03-1313-E-101 DRAWN BY ME CHECKED BY ABH DATE 09-30-14	PROJECT ADDRESS DATE DESCRIPTION REV.	DATE DESCRIPTION REV.
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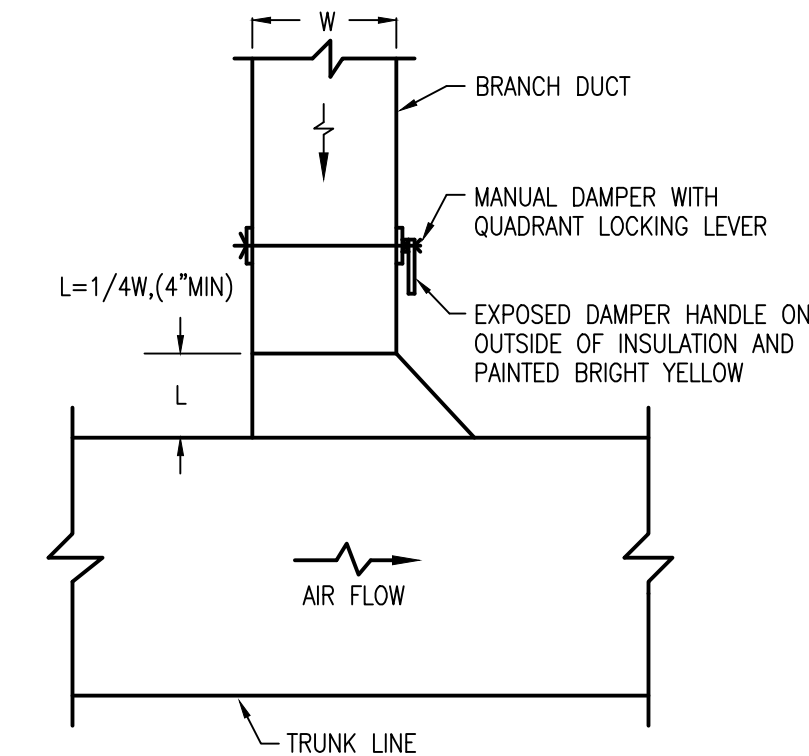


NOTES
 1. INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS - LATEST EDITION

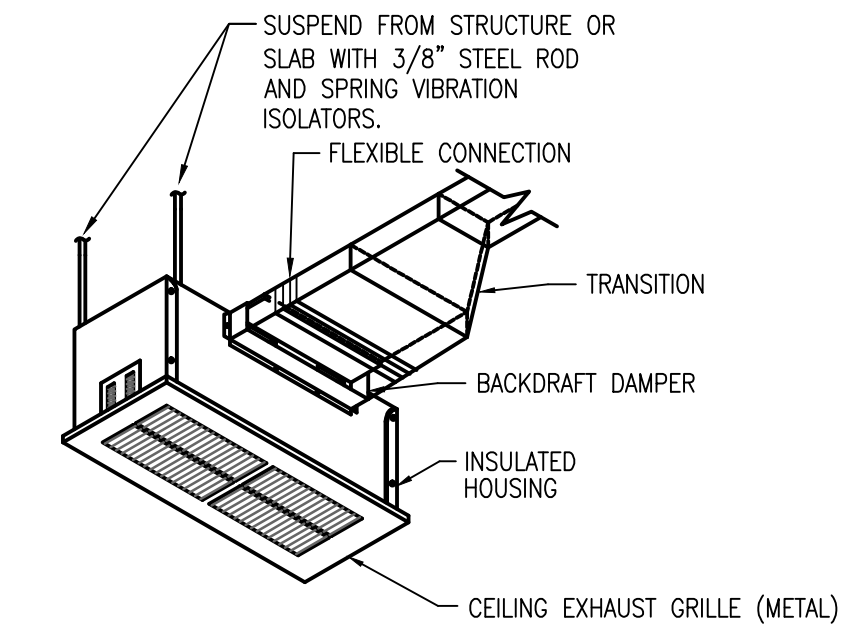
SHEET METAL DUCT HANGING DETAIL
 NOT TO SCALE



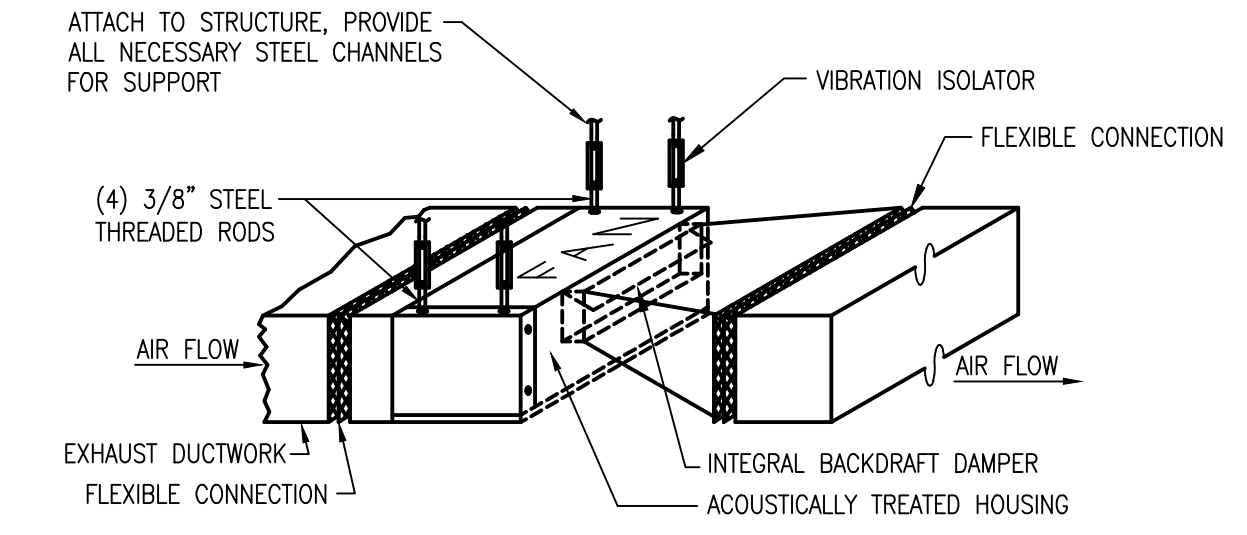
VOLUME DAMPERS-SINGLE BLADE TYPE
 NOT TO SCALE



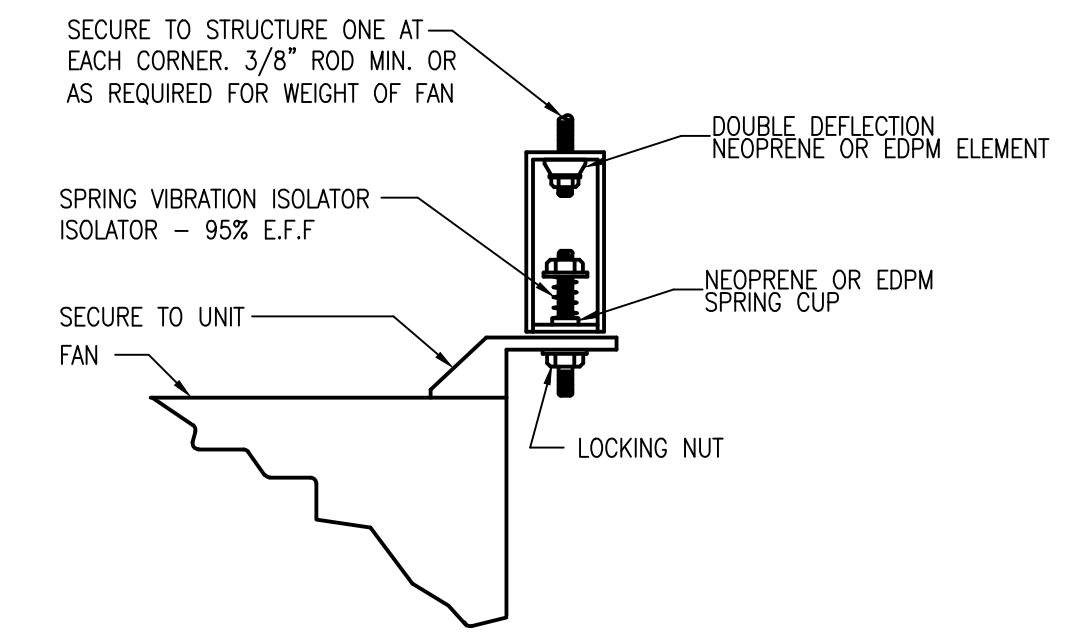
TYPICAL EXHAUST DUCT CONNECTION DETAIL
 NOT TO SCALE



CEILING MOUNTED EXHAUST FAN DETAIL
 NOT TO SCALE



INLINE EXHAUST FAN DETAIL
 NOT TO SCALE



FAN SUSPENSION DETAIL
 NOT TO SCALE

OCP JOHN YOUNG PARK: STORAGE AND RESTROOM BUILDING

SIGNATURE AND DATED SEAL

CONSULTANTS

DRAWING TITLE

PROJECT ADDRESS

DATE

DESCRIPTION

REV.

14-124

PROFESST DOCUMENTS

SCALE

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09-30-14

BORBELL PARTNERS
 ARCHITECTURE PLANNING LANDSCAPE INTERIOR
 720 VASSER STREET
 ORLANDO, FL 32804 (407) 418-1138
CONVENTIONAL AND COMMERCIAL ARCHITECTURE AND INTERIOR DESIGN SERVICES PROVIDED BY BORBELL PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIOR A PROFESSIONAL SERVICE CORPORATION IS A LIMITED LIABILITY CORPORATION LICENSED UNDER THE ARCHITECTURE ACT OF 1948, CHAPTER 488, FLORIDA STATUTES.

BOBES ASSOCIATES
 CONSULTING ENGINEERS
 1111 ORANGE AVENUE, SUITE 300
 ORLANDO, FL 32814
 FLORIDA STATE PROFESSIONAL ENGINEER LICENSE NO. 5131
 AUGUSTO E. BOBES, JR., P.E.
 FLORIDA P.E. # 39410

BOBES ASSOCIATES
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 1111 ORANGE AVENUE, SUITE 300
 ORLANDO, FL 32814
 FLORIDA STATE PROFESSIONAL ENGINEER LICENSE NO. 5131

HVAC DETAILS

M-501

PLUMBING SYMBOL LEGEND				
SANITARY WASTE LINE- BELOW FLOOR		PIPE ELBOW UP		WALL MOUNTED LAVATORY
SANITARY WASTE LINE- ABOVE FLOOR		PIPE ELBOW DOWN		COUNTER TOP LAVATORY
SANITARY VENT LINE		WCO		BALL VALVE
DOMESTIC COLD WATER		FCD		BALL/BUTTERFLY VALVE
DOM. HOT WATER 140° F		GCO		BACKWATER VALVE
DOMESTIC HOT WATER RECIRCULATED		VTR		INLINE PUMP
TEMPERED WATER 110° F		RL		UNION
FILTERED WATER		RD		TEMP. & PRESSURE RELIEF VALVE
SOFT WATER		FD		COCK
STORM DRAIN - BELOW FLOOR		HD		GAS COCK
STORM DRAIN - ABOVE FLOOR				WATER ARRESTOR
GRASE WASTE LINE- BELOW FLOOR				BALANCING VALVE
CONDENSATE DRAIN		HB		DRAWING HEX NOTE
GAS LINE		WC		REVISION DELTA AND NUMBER
AIR LINE				

PLUMBING ABBREVIATIONS					
AAV	AIR ADMITTANCE VALVE	ESE	EMERGENCY SHOWER/ EYEWASH	PW	POWER WASH
AD	AREA DRAIN	EWB	ELECTRIC WATER HEATER	RP	RECIRCULATING PUMP
ADR	AIR DRIER (COMPRESSED AIR)	EWV	ELECTRIC WATER COOLER	RWL	RAIN WATER LEADER
AF	AIR FILTER (COMPRESSED AIR)	FD	FLOOR DRAIN	SAN	SANITARY
AFF	ABOVE FINISHED FLOOR	FL	FLOOR	S	SINK
AR	AIR RISER DIAGRAM	FS	FLOOR SINK	SR	SANITARY RISER DIAGRAM
BF	BARRIER FREE	GPH	GALLON PER HOUR	SD	STORM DRAIN
BTU	BRITISH THERMAL UNIT	GR	GAS RISER DIAGRAM	SE	SEWAGE EJECTOR
B/S	BELOW SLAB	GW	GAS WATER HEATER	SH	SHOWER
CA	COMPRESSOR (COMPRESSED AIR)	HB	HOSE BIBB	SS	SERVICE SINK
CLG	CEILING	HD	HUB DRAIN	ST	STORM
CHDW	CHILLER, DRINKING WATER	HW	HOT WATER	TEMP	TEMPERATURE
CP	CONDENSATE PUMP	HWR	HOT WATER RECIRCULATING	TW	TEMPERED WATER
CS	COUNTER SINK	IWH	INSTANTANEOUS ELECTRIC WATER HEATER	TMW	TEMPERING/MIXING VALVE
CW	COLD WATER	IM	ICE MAKER	UR	URINAL
F	DEGREES FARENHEIT	KS	KITCHEN SINK	UG	UNDERGROUND
C.O.	CLEAN OUT	KW	KILOWATT	VTR	VENT THRU ROOF
DISP	DISPOSER	LAV, L	LAVATORY	WC	WATER CLOSET
DN	DOWN	MBH	MEGA BTU PER HOUR	W/	WITH
DF	DRINKING FOUNTAIN	MS	MOP SINK	WH	WATER HEATER
Δ	TEMP. DIFFERENCE IN °F	NIC	NOT IN CONTRACT	WHA	WATER HAMMER ARRESTOR
DWG	DRAWING	OD	OVER FLOW DRAIN	WF	WATER FILTER
EDF	ELECTRIC DRINKING FOUNTAIN	PC	PUMP, CIRCULATING (DOMESTIC HOT WATER)	WR	WATER RISER DIAGRAM
EFF	EFFICIENCY	PD	PLANTER DRAIN	WS	WATER SOFTENER
		PS	PUMP, SUMP	V	VACUUM

PLUMBING FIXTURE CONNECTION SCHEDULE							
SYMBOL	DESCRIPTION	CW	TW	HW	WASTE	VENT	REMARKS
WC-1	WATER CLOSET	1"	--	--	3"	2"	-- --
WC-2	WATER CLOSET	1"	--	--	3"	2"	HANDICAP
UR-1	URINAL	3/4"	--	--	2"	1 1/2"	-- --
UR-2	URINAL	3/4"	--	--	2"	1 1/2"	HANDICAP
L-1H/L-1L	LAVATORY	1/2"	--	--	1 1/2"	1 1/4"	WALL
L-2	LAVATORY	1/2"	--	--	1 1/2"	1 1/4"	HANDICAP
EWV-1	ELECTRIC WATER COOLER	1/2"	--	--	1 1/4"	1 1/4"	HANDICAP
MS-1	MOP SINK	1/2"	--	1/2"	3"	1 1/2"	-- --
HB-1	HOSE BIBB	3/4"	--	--	--	--	RECESSED

PLUMBING FIXTURE SCHEDULE

- WC-1 WATER CLOSET: FLOOR MOUNTED, MANUAL FLUSH VALVE, TOP SPUD, SIPHON JET, ELONGATED, WATER SAVER 1.28 GPF, WHITE VITREOUS CHINA, WHITE OPEN FRONT SEAT. ZURN Z-5655-BWL TOILET SYSTEM. FURNISH WITH 5 YEAR WARRANTY ON FIXTURE/FLUSH VALVE COMBINATION.
- WC-2 HANDICAP WATER CLOSET: FLOOR MOUNTED, MANUAL FLUSH VALVE, TOP SPUD, SIPHON JET, ELONGATED, WATER SAVER 1.28 GPF, WHITE VITREOUS CHINA, WHITE OPEN FRONT SEAT. ZURN Z-5665-BWL TOILET SYSTEM. ADA APPROVED FOR HANDICAP ACCESSIBILITY. MOUNT AT ADA APPROVED HANDICAP ACCESSIBLE HEIGHT. FURNISH WITH 5 YEAR WARRANTY ON FIXTURE/FLUSH VALVE COMBINATION.
- UR-1 URINAL: WALL HUNG, TOP SPUD, WATER CONSERVING 1/8 GPM. MANUAL FLUSH VALVE, WASHOUT, WHITE VITREOUS CHINA, FLOOR MOUNTED CARRIER. ZURN "THE PINT" Z5798.207.00 URINAL SYSTEM. FURNISH WITH 5 YEAR WARRANTY ON FIXTURE/FLUSH VALVE COMBINATION.
- UR-2 HANDICAP URINAL: WALL HUNG, TOP SPUD, WATER CONSERVING 1/8 GPM MANUAL FLUSH VALVE, WASHOUT, WHITE VITREOUS CHINA, FLOOR MOUNTED CARRIER. ZURN "THE PINT" Z5798.207.00 URINAL SYSTEM. ADA APPROVED FIXTURE FOR HANDICAP ACCESSIBILITY. MOUNT AT ADA APPROVED HANDICAP ACCESSIBLE HEIGHT. FURNISH WITH 5 YEAR WARRANTY ON FIXTURE/FLUSH VALVE COMBINATION.
- L-1H LAVATORY SYSTEM: MULTI-LEVEL MOLDED ONE-PIECE TERREON DECK WITH INTEGRAL BOWLS (HIGH ON LEFT) LESS FAUCETS, CENTERSHANK FAUCET DRILLING OPTION, PUSH BUTTON SLOW CLOSING METERING FAUCET WITH FLAT GRID STRAINER, TRAP AND TRANSITION COVER ENCLOSURE, HEAVY GAUGE STAINLESS STEEL MOUNTING BRACKETS. BRADLEY FREQUENCY LAVATORY SYSTEM FL-2H (OR EQUAL), T&S BRASS B-0805 FAUCET.
- L-1L LAVATORY SYSTEM: MULTI-LEVEL MOLDED ONE-PIECE TERREON DECK WITH INTEGRAL BOWLS (LOW ON LEFT) LESS FAUCETS, CENTERSHANK FAUCET DRILLING OPTION, PUSH BUTTON SLOW CLOSING METERING FAUCET WITH FLAT GRID STRAINER, TRAP AND TRANSITION COVER ENCLOSURE, HEAVY GAUGE STAINLESS STEEL MOUNTING BRACKETS. BRADLEY FREQUENCY LAVATORY SYSTEM FL-2L (OR EQUAL), T&S BRASS B-0805 FAUCET.
- L-2 HANDICAP LAVATORY: 20" X 18" WALL HUNG, WHITE VITREOUS CHINA, FLOOR MOUNTED CARRIER, PUSH BUTTON SLOW CLOSING METERING FAUCET WITH FLAT GRID STRAINER, BRASS P-TRAP SUPPLIES WITH STOP. INSULATE WATER AND WASTE PIPING BELOW LAVATORY. AMERICAN STANDARD "LUCERNE" 0355.012, T&S BRASS B-0807 FAUCET.
- EWV-1 ELECTRIC WATER COOLER: WALL HUNG, HI-LOW, HANDICAP ACCESSIBLE, STAINLESS STEEL FINISH, FRONT AND SIDE PUSH BARS, SUPPLY WITH STOP, BRASS P-TRAP, 8.0 GPH OF 50 DEGREE WATER, 1/5 HP COMPRESSOR, 4.0 FLA 115V, 1 PHASE, 60 CYCLE. HALSEY TAYLOR HACBFSL-0 ADA, ELKAY EZSTLR8 OR OASIS P8ACSL.
- FD-1 FLOOR DRAIN: 6" STRAINER DIAMETER, CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP, ADJUSTABLE TYPE B NICKEL BRONZE STRAINER, SEEPAGE SLOTS, TRAP PRIMER CONNECTION, ZURN Z415B-P OR WATTS FD-100P-A5-7.
- MS-1 MOP SINK: 24" X 24" X 10" MOLDED STONE, FLOOR MOUNTED, WITH WALL MOUNTED FAUCET WITH 3/4" HOSE THREAD SPOUT, INTEGRAL STOPS, WALL BRACKET, FAUCET WITH PAL HOOK AND VACUUM BREAKER. HOSE AND HOSE BRACKET, MOP HANGER, STAINLESS STEEL FLAT GRID STRAINER, WALL GUARD AND EDGE GUARD. FLAT MSB-2424, 830-AA SERVICE, T&S B665-BSTR, T&S B653 OR T&S B654 FAUCET, 832-AA HOSE AND BRACKET, 869-CC MOP HANGER, 1453-BB STRAINER, MSG 2424 WALL GUARD, E-88-AA EDGE GUARD.
- HB-1 HOSE BIBB: RECESSED, WALL MOUNTED IN BRASS BOX WITH LOCKING COVER, BRASS, CHROME PLATED, VACUUM BREAKER, 3/4" HOSE THREAD SPOUT, REMOVABLE KEY. ZURN Z1335 OR WATTS HY330.
- S-1 STRAINER: BRONZE BODY, Y-TYPE DOMESTICALLY MANUFACTURED, 125 PSI RATED, 100 MESH STAINLESS STEEL SCREEN. SIZE TO MATCH WATER LINE IT IS SERVING. WILKINS YB-100 OR WATTS 777S.
- WATER ARRESTOR EQUAL TO ZURN SHOCKTROL MODEL Z1700 OR WATTS SC (COPPER WATER HAMMER ARRESTOR), 65 PSI MAX. RATING MAX. PIPING LENGTH COVERED BY ONE ARRESTOR SHALL BE 20 LINEAR FT.
TYPE "A" = 11 FU MAX, TYPE "B" = 30 FU MAX, TYPE "C" = 60 FU MAX.
- ALL WATER ARRESTERS SHALL BE TYPE "A" UNLESS OTHERWISE SHOWN.
- WCO WALL CLEANOUTS: FINISHED AREAS EQUAL TO: ZURN, ZS-1469-VP-7" HANDICAP UNFINISHED AREAS ZURN, ZAB-1469-VP-7"
- FCD FLOOR CLEANOUTS: FINISHED AREAS EQUAL TO: ZURN, ZN-24000-2, ZN-1400 OR WATTS CO-200P-R CARPETED AREAS ZURN, ZN-14000-14, ZN-1400 OR WATTS CO-200P-RC UNFINISHED AREAS ZURN, ZN-1420-27, Z-1400 OR WATTS CO-200P-RX-4 HEAVY DUTY HIGH TRAFFIC AREAS ZURN, Z-1400-DC

PLUMBING GENERAL NOTES

- ALL WORK SHALL CONFORM WITH THE 2010 FLORIDA PLUMBING CODE, THE 2010 FLORIDA BUILDING CODE, THE 2010 FLORIDA ACCESSIBILITY CODE, THE ORANGE COUNTY BUILDING DEPARTMENT AND ALL OTHER APPLICABLE CODES AND STANDARDS.
- ALL HANDICAP FIXTURES SHALL BE MOUNTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE 2010 FLORIDA ACCESSIBILITY CODE CHAPTER 11 - FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL UTILITIES IN THE FIELD.
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL EXISTING BUILDING CONDITIONS.
- COORDINATE WORK WITH ALL OTHER TRADES TO AVOID INTERFERENCES.
- INSTALL ALL WATER, WASTE AND VENT PIPING IN ACCORDANCE WITH ALL APPLICABLE CODES.
- SOIL, WASTE AND VENT PIPING SHALL BE SCHEDULE SOLID WALL 40 PVC DWV IN ACCORDANCE WITH ASTM D 2665. FITTINGS SHALL BE SCHEDULE 40 PVC DWV FITTINGS AND SHALL BE IN ACCORDANCE WITH ASTM D 3311. JOINTS SHALL BE SOLVENT CEMENTED IN ACCORDANCE WITH ASTM D 2855 USING SOLVENT CEMENT IN COMPLIANCE WITH ASTM D 2564.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.
- ALL PIPING SHALL BE CONCEALED WITHIN THE CEILING SPACE, WALLS AND CHASES AS SHOWN ON PLANS.
- ALL EXPOSED PIPING AT PLUMBING FIXTURES SHALL BE CHROME PLATED BRASS WITH ESCUTCHEON PLATES AT THE WALL, FLOOR OR CEILING PENETRATIONS.
- ALL ABOVE SLAB COLD WATER AND HOT WATER PIPING SHALL BE TYPE "L" COPPER TUBING IN ACCORDANCE WITH ASTM B 88. PIPE FITTINGS SHALL BE COPPER OR COPPER ALLOY IN ACCORDANCE WITH ASME 16.22. JOINTS SHALL BE SOLDER ACCORDANCE WITH ASTM B 828 USING "LEAD FREE" SOLDER IN COMPLIANCE WITH ASTM B 32.
- ALL COPPER WATER LINE PENETRATIONS THROUGH WALLS AND FOOTERS SHALL BE SLEEVED.
- INSULATE ALL HOT WATER PIPING WITH 1" THICK FIBERGLASS INSULATION WITH SELF SEALING VAPOR RETARDANT AND FOIL JACKET (R-4.35/INCH).
- INSULATE ALL EXPOSED PIPES AND SURFACES UNDER ACCESSIBLE LAVATORIES PER ADA 4.19.4 AND ANSI-A117.1. PROVIDE ONE PIECE PROTECTOR WITH FULL ROTATION OPTION CONSISTING OF INTERNAL GROOVE LOCKING RING FOR NON SEPARATION AND EXTERNAL LOCKING RING WITH STAINLESS STEEL SECURITY LOCKING RING TO INSURE EXTRA LONG TERM TAMPER RESISTANCE ANTIMICROBIAL U.V. INHIBITED UNIVERSAL FIT, 3-M DUAL LOCK (TM) FASTENERS WITH SELF LOCKING APPROVED NYLON STRAPS. FURNISH ONE PIECE VALVE/ANGLE STOP PROTECTOR, ONE PIECE OFFSET PROTECTOR AND ONE PIECE P-TRAP PROTECTOR. PRO-XTRIME BY PLUMBEREX.
- ALL PIPING SHALL BE FIRMLY ANCHORED AND SUPPORTED IT'S ENTIRE LENGTH TO PREVENT SWAY AND VIBRATION.
- CONTRACTOR SHALL FURNISH AND INSTALL WATER SHOCK ARRESTERS EQUAL TO ZURN SHOKTROL AS SHOWN ON PLANS AND AS PER MANUFACTURER'S RECOMMENDATIONS. AIR CHAMBERS SHALL NOT BE SUBSTITUTED FOR FACTORY FABRICATED WATER SHOCK ARRESTORS.
- ALL FLOOR DRAINS SHALL HAVE TRAP PRIMER. TRAP PRIMER SHALL BE OF THE WATER SAVER TYPE EQUAL TO ZURN Z 1021 MOUNTED TO THE 1 1/4" SINK OUTLET AND CONNECTED VIA FLEXIBLE COPPER TO THE TRAP PRIMER CONNECTION AT THE FLOOR DRAIN.
- FURNISH SUPPLIES WITH STOP VALVES FOR ALL PLUMBING FIXTURES.
- ALL SHUT-OFF VALVES SHALL BE BALL VALVES.
- ALL PLUMBING ROOF VENTS SHALL HAVE TAMPER PROOF VENT CAPS.
- ALL PLUMBING ROOF VENTS SHALL BE COORDINATED TO PENETRATE THE STANDING SEAM METAL ROOF IN THE CENTER OF ROOF PANEL AND NOT AT A SEAM.
- ALL WATER PIPING SHALL BE SLOPED TO DRAIN.
- ALL SOIL, WASTE, AND VENT PIPING SHALL BE SLOPED 1/4" PER FOOT (2%) FOR PIPES 2 1/2" AND SMALLER AND 1/8" PER FOOT (1%) FOR PIPES 3" AND LARGER.
- PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS OF DISSIMILAR METALS.
- FURNISH ALL HOSE BIBBS WITH VACUUM BREAKER, WATER SHOCK ARRESTOR AND ISOLATION/SHUT OFF VALVE.
- PROVIDE 12"x12" ACCESS DOORS ON ALL NON-ACCESSIBLE CEILINGS AND WALLS FOR ALL VALVES.
- PLUMBING PIPING SHALL NOT BE RUN THROUGH OR INTO ELECTRICAL ROOMS, COMPUTER ROOMS, IT ROOMS, IDF OR MDF ROOMS.
- ALL FAUCET BODIES SHALL BE ONE PIECE BRASS CONSTRUCTION.
- ALL EXTERIOR WALL CLEAN OUTS SHALL BE FURNISHED WITH A COATED CAST IRON SQUARE HINGED ACCESS PANEL WITH VANDAL PROOF SCREWS EQUAL TO ZURN MODEL Z-1461-VP. SIZE SHALL BE 10"x10" OR LARGER AS NEEDED.
- ALL WALL CLEAN OUTS SHALL BE FURNISHED WITH TYPE 304 STAINLESS STEEL ROUND ACCESS COVER EQUAL TO ZURN ZS-1469-VP WITH A VANDAL PROOF SCREW.
- ALL DOMESTIC WATER SHUT OFF VALVES LOCATED IN THE CEILING SPACE SHALL BE ACCESSIBLE AND SHALL BE LOCATED WITHIN 18" OF THE CEILING.

INSTANTANEOUS ELECTRIC WATER HEATER SCHEDULE												
UNIT NUMBER	KW	FLOW (GPM)	TEMP RISE °F	DISCHARGE TEMP. °F	WATER CONNECTION (INLET)	WATER CONNECTION (OUTLET)	POWER REQUIRED			BREAKER AMPS	MANUFACTURER/MODEL	NOTES
							VOLTS	PHASE	CYCLES			
IEWH-1	7.20	1.0	49	119	1/2"	1/2"	240	1	60	30	CHROMOMITE SR30/240	1-3

- NOTES
- WATER HEATER SHALL HAVE A PRESET MAXIMUM TEMPERATURE.
 - WATER HEATER SHALL MEET ADA REQUIREMENTS.
 - WATER HEATER SHALL BE 99% EFFICIENT.

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CONSULTANTS

DRAWING TITLE

PROJECT ADDRESS

DATE

REV. DESCRIPTION

PHASE

SCALE

FILE NAME

DRAWN BY

CHECKED BY

DATE

PROJECT NO.

PHASE

SCALE

FILE NAME

DRAWN BY

CHECKED BY

DATE

PROJECT NO.

PHASE

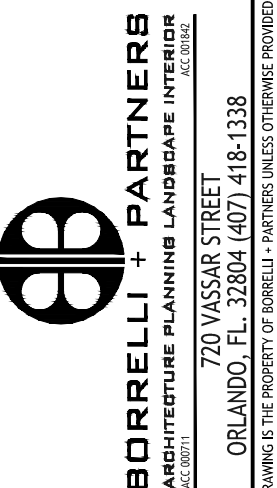
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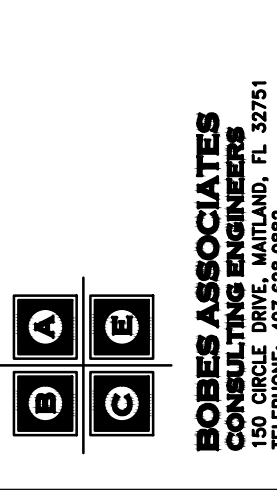
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DATE



BOBELL PARTNERS
ARCHITECTURAL PLANNING LANDMARK INTERIORS
720 VASSAR STREET
ORLANDO, FL 32804 (407) 418-1138



BOBES ASSOCIATES
CONSULTING ENGINEERS
11111 COLLETT AVENUE, SUITE 200
WINTER GARDEN, FL 32787
FLORIDA STATE LICENSE NUMBER: 6131

PLUMBING GENERAL NOTES,
SYMBOLS AND SCHEDULES

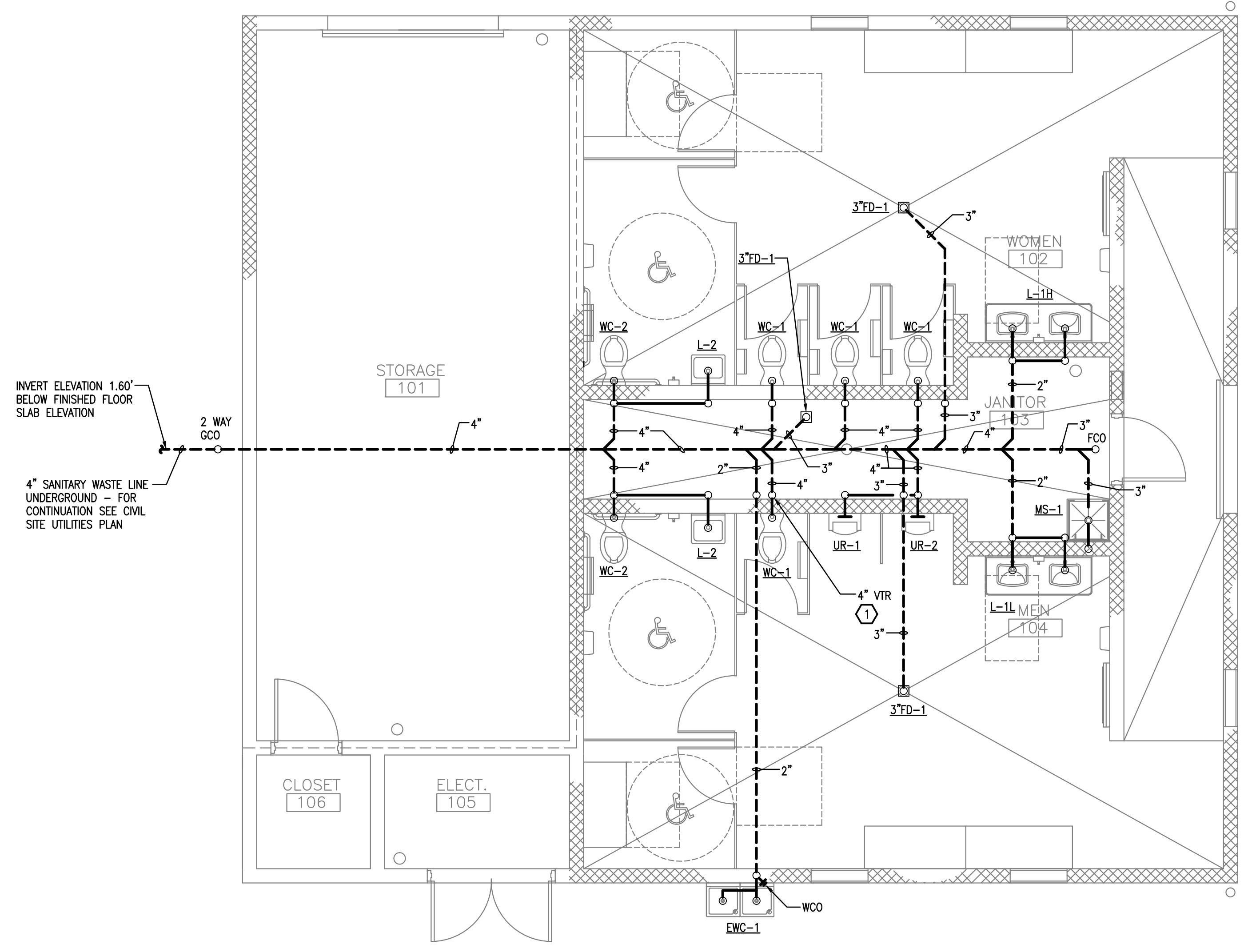
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ORANGE COUNTY PARKS
400 E. SOUTH STREET
5TH FLOOR
ORLANDO, FLORIDA 32801

PROJECT NO. 14-124
PHASE BR/RESM/DOCUMENTS
SCALE 1/4"=1'-0"
FILE NAME 13-1123-E-01
DRAWN BY ME
CHECKED BY ABU
DATE 09-30-14

SIGNATURE AND DATED SEAL

PROJECT NO. 14-124
PHASE BR/RESM/DOCUMENTS
SCALE 1/4"=1'-0"
FILE NAME 13-1123-E-01
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FILE NAME 13-1123-E-01
DRAWN BY ME
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DATE 09-30-14



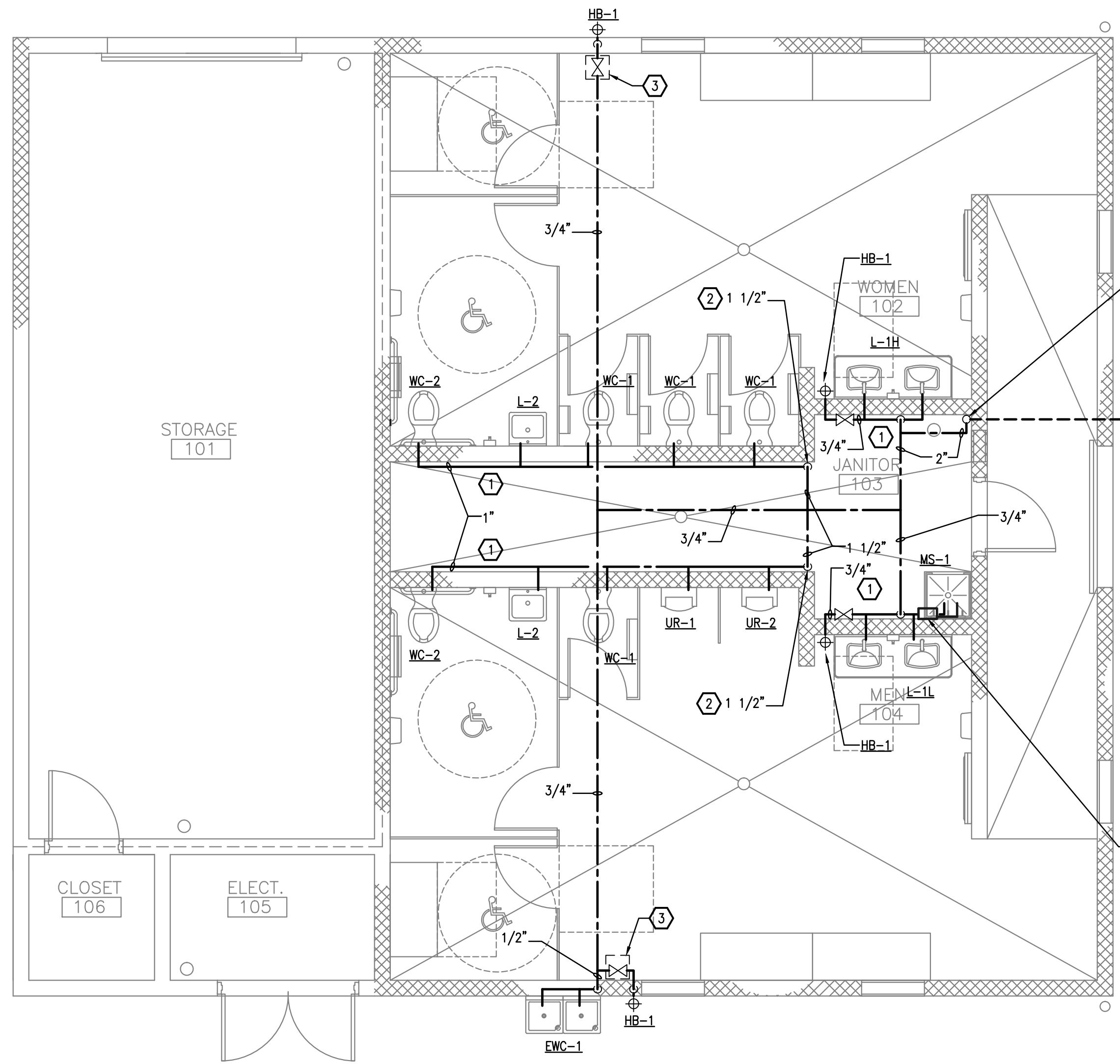
PLUMBING KEY NOTES

① ROOF VENT PENETRATION SHALL BE COORDINATED TO PENETRATE THE STANDING SEAM METAL ROOF IN THE CENTER OF ROOF PANEL AND NOT AT A SEAM.

1 FLOOR PLAN - PLUMBING - SANITARY
 P-101 1/4"=1'-0"

OCP JOHN YOUNG PARK: STORAGE AND RESTROOM BUILDING

BORELLI PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIOR ORLANDO, FL 32804 (407) 418-1338 <small>CONVENTIONAL USE EXEMPTED BY THE DEPARTMENT OF REVENUE, FLORIDA UNDER CERTAIN CIRCUMSTANCES. THIS DOCUMENT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM BORELLI PARTNERS, A.C. CORP.</small>		SIGNATURE AND DATED SEAL	
BOBES ASSOCIATES CONSULTING ENGINEERS 1111 BOBES AVENUE, SUITE 200 ORLANDO, FL 32811 FLORIDA STATE LICENSE NUMBER: 8131		CONSULTANTS	
PROJECT ADDRESS ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801		DRAWING TITLE FLOOR PLAN PLUMBING - SANITARY	
PROJECT NO. 14-124	REV. 14-124	DESCRIPTION 14-124	DATE 09-30-14
PHASE PROFESSIONAL DOCUMENTS	SCALE 1/4"=1'-0"	FILE NAME 14-124 E-101	OWNER NAME AND ADDRESS ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801
DRAWN BY ME	CHECKED BY ABJ	DATE 09-30-14	



PLUMBING KEY NOTES

- 1 CONTRACTOR TO RUN ALL DOMESTIC WATER PIPING EXPOSED IN PLUMBING CHASE.
- 2 CONTRACTOR TO INSTALL ISOLATION VALVE ON 1 1/2" VERTICAL PIPE IN PLUMBING CHASE IN ACCESSIBLE LOCATION.
- 3 PROVIDE 12" X 12" CEILING ACCESS PANEL FOR HOSE BIBB SHUT OFF VALVE.

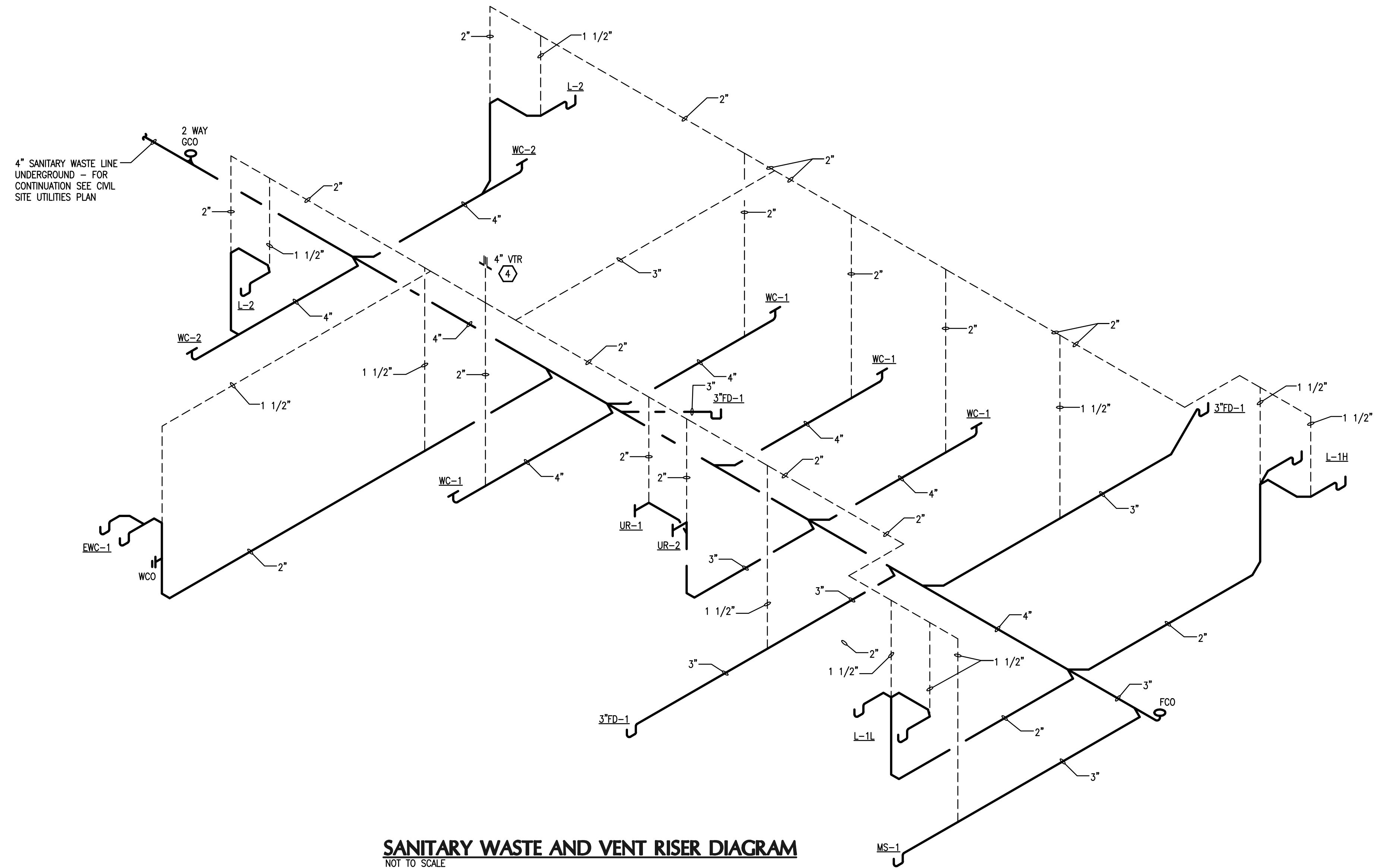
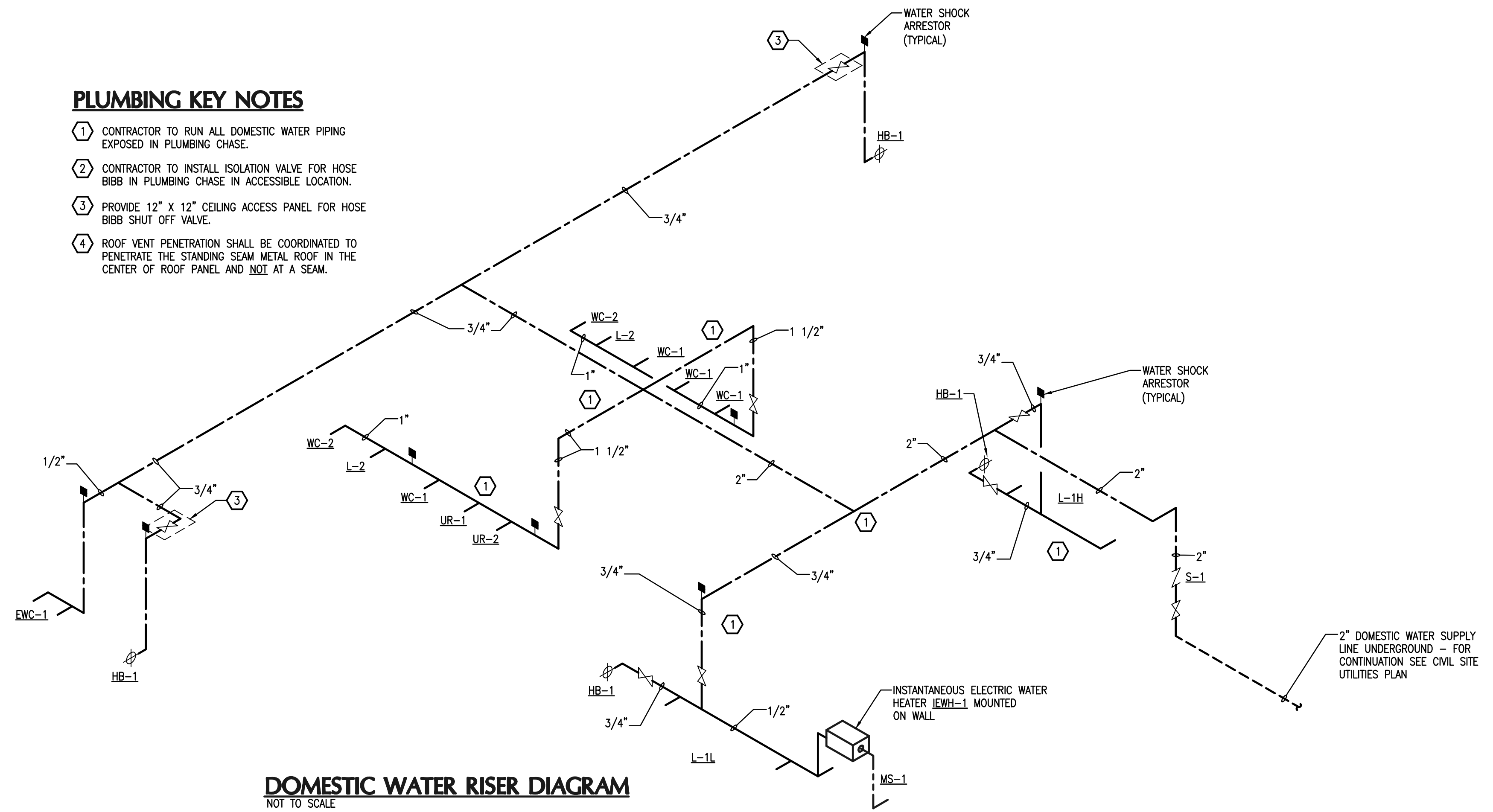
1 FLOOR PLAN - PLUMBING - DOMESTIC WATER
 P-102 1/4"=1'-0"

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	BORELLI PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIOR ORLANDO, FL 32804 (407) 418-1338	SIGNATURE AND DATED SEAL CONSULTANTS
	ROBES ASSOCIATES CONSULTING ENGINEERS 1111 W. COLLETT AVENUE, SUITE 200 ORLANDO, FL 32801 FLORIDA STATE LICENSE NUMBER: 8131	SIGNATURE AND DATED SEAL CONSULTANTS
FLOOR PLAN PLUMBING - DOMESTIC WATER		
PROJECT NO.	PROJECT ADDRESS	DRAWING TITLE
14-124	ORANGE COUNTY PARKS	
PHASE	OWNER NAME AND ADDRESS	
800 PERMIT DOCUMENTS	ORANGE COUNTY PARKS	
SCALE	400 E. SOUTH STREET	
1/4"=1'-0"	5TH FLOOR	
FILE NAME	ORLANDO, FLORIDA 32801	
9-13-13 E-101		
DRAWN BY		
ME		
CHECKED BY		
ABJ		
DATE		
09-30-14		

PLUMBING KEY NOTES

- ① CONTRACTOR TO RUN ALL DOMESTIC WATER PIPING EXPOSED IN PLUMBING CHASE.
- ② CONTRACTOR TO INSTALL ISOLATION VALVE FOR HOSE BIBB IN PLUMBING CHASE IN ACCESSIBLE LOCATION.
- ③ PROVIDE 12" X 12" CEILING ACCESS PANEL FOR HOSE BIBB SHUT OFF VALVE.
- ④ ROOF VENT PENETRATION SHALL BE COORDINATED TO PENETRATE THE STANDING SEAM METAL ROOF IN THE CENTER OF ROOF PANEL AND NOT AT A SEAM.



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SIGNATURE AND DATED SEAL

CONSULTANTS

PLUMBING RISER DIAGRAMS

DRAWING TITLE

PROJECT ADDRESS

DATE

REV.

DESCRIPTION

PROJECT NO.

PHASE

SCALE

FILE NAME

DRAWN BY

CHECKED BY

DATE

OWNER NAME AND ADDRESS

ORANGE COUNTY PARKS

400 E. SOUTH STREET

5TH FLOOR

ORLANDO, FLORIDA 32801

14-724

BR/PERMIT DOCUMENTS

1/4" = 1'-0"

03-13-15 E-001

ME

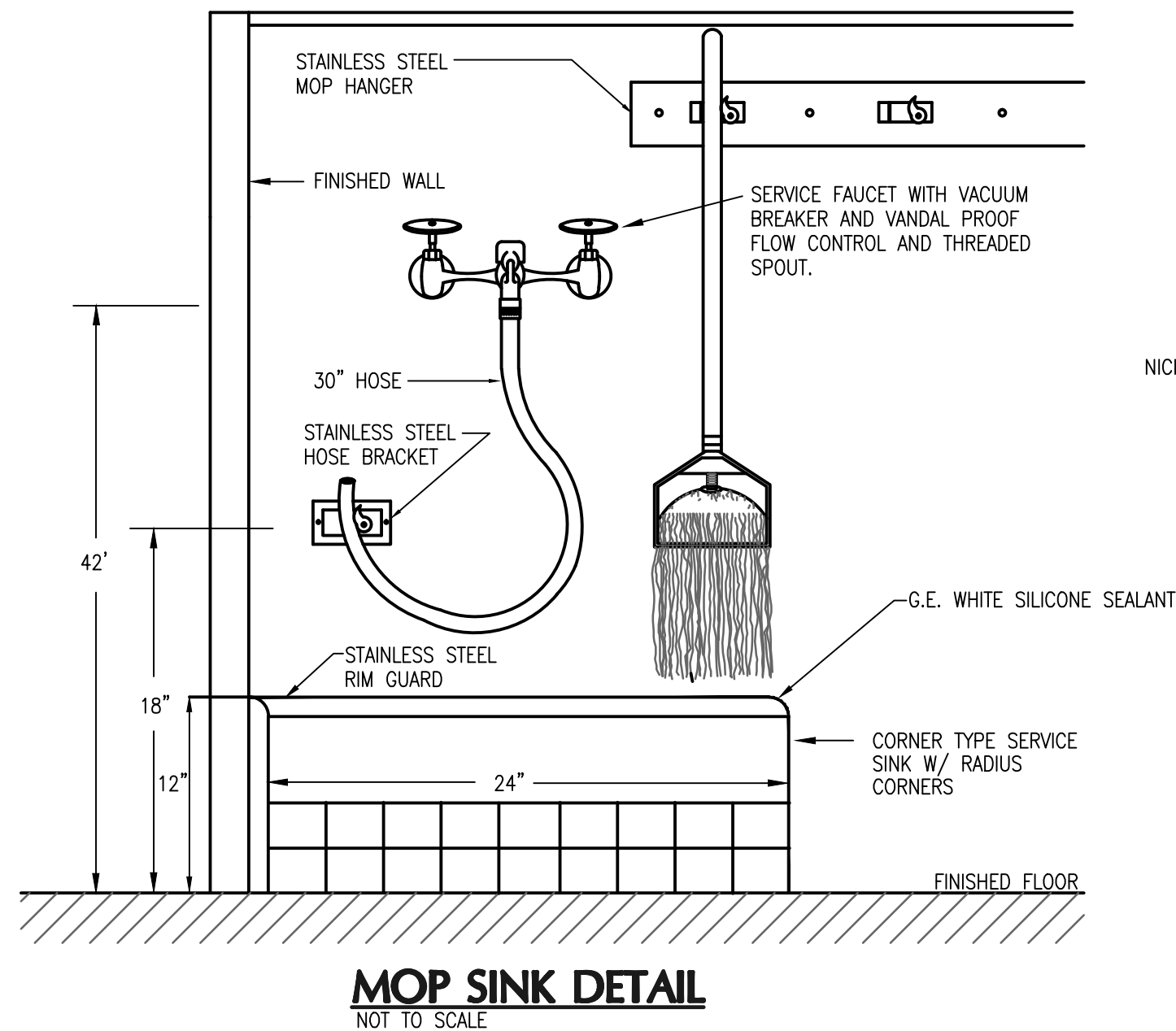
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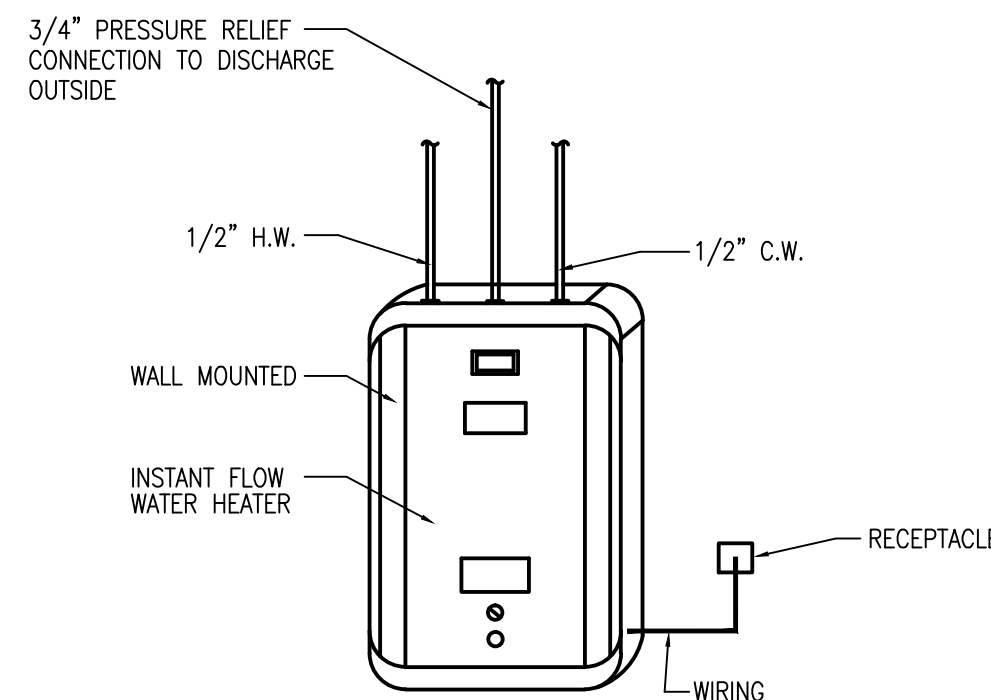
BORELL PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
720 VASSAR STREET
ORLANDO, FL 32804 (407) 418-1338

BOBES ASSOCIATES
CONSULTING ENGINEERS
1111 ORANGE AVENUE, SUITE 200
ORLANDO, FLORIDA 32801
FLORIDA STATE REG. NO. 00000008
FLORIDA STATE REG. NO. 00000008

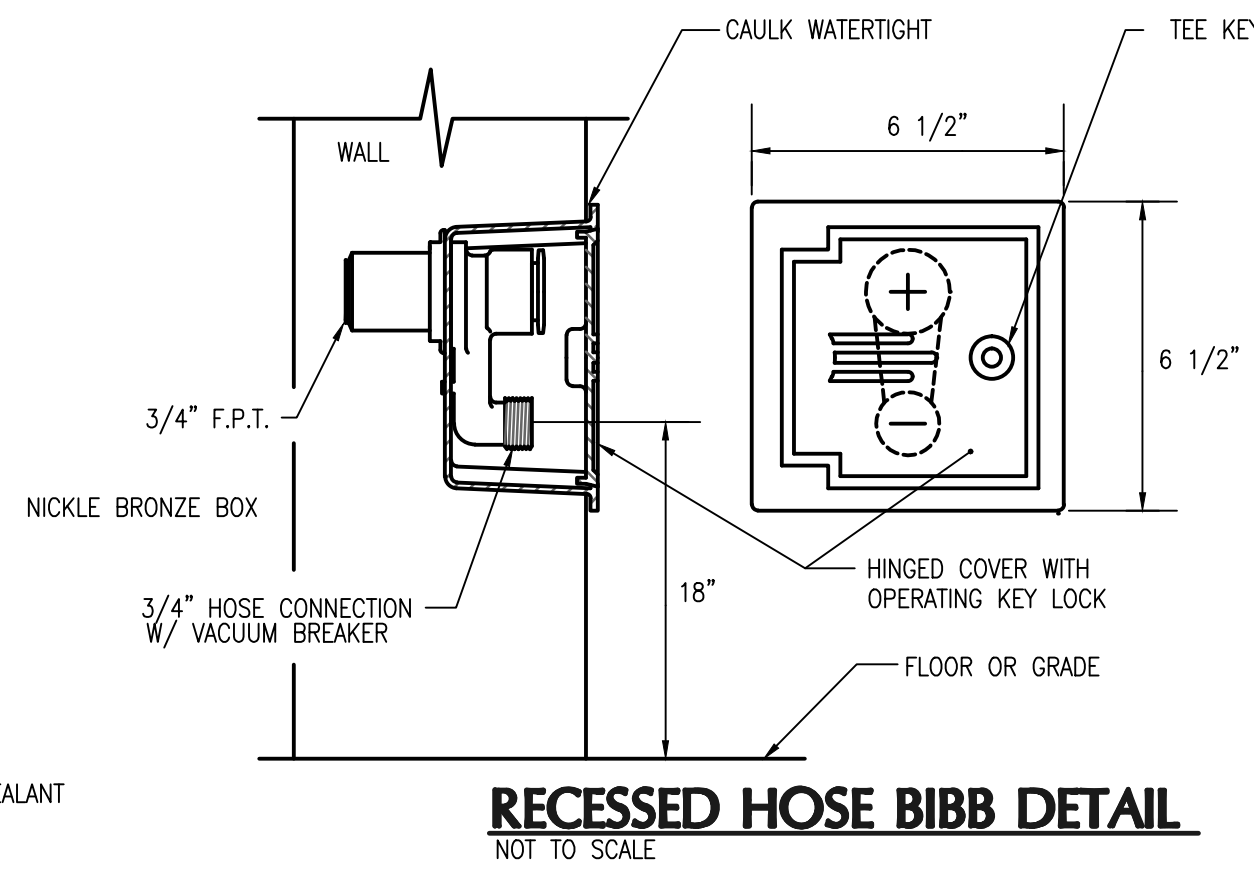
ANGUSTO E. BOBES, JR., P.E.
FLORIDA P.E. # 39410



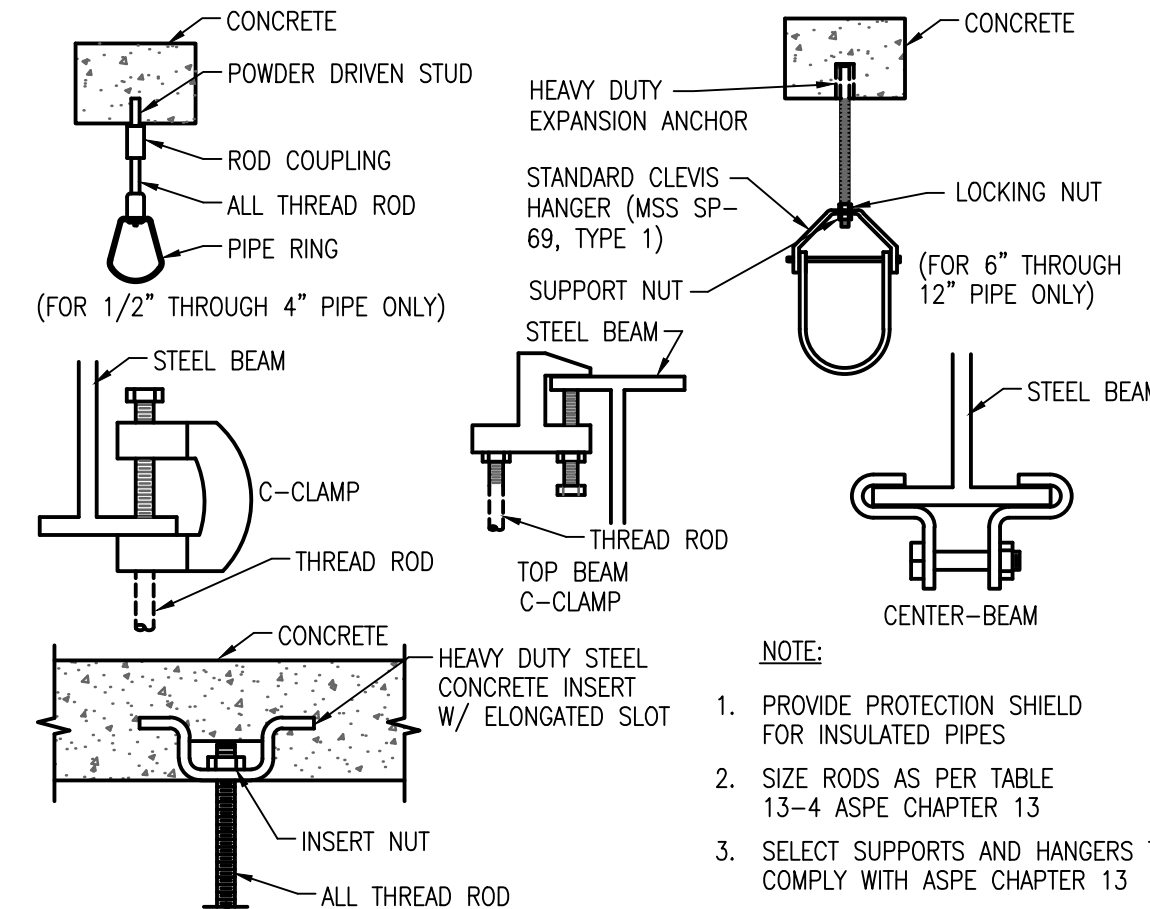
MOP SINK DETAIL
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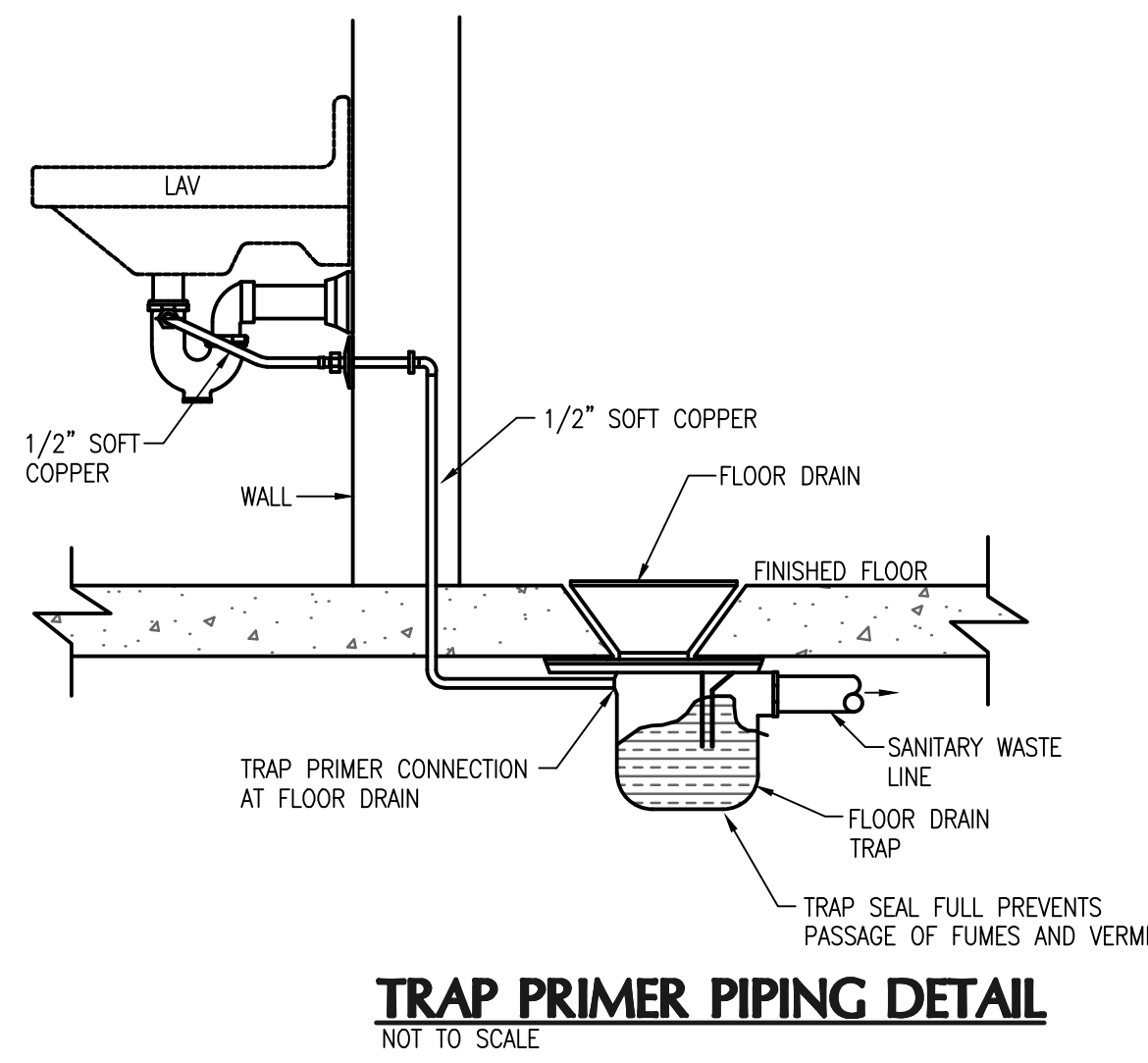
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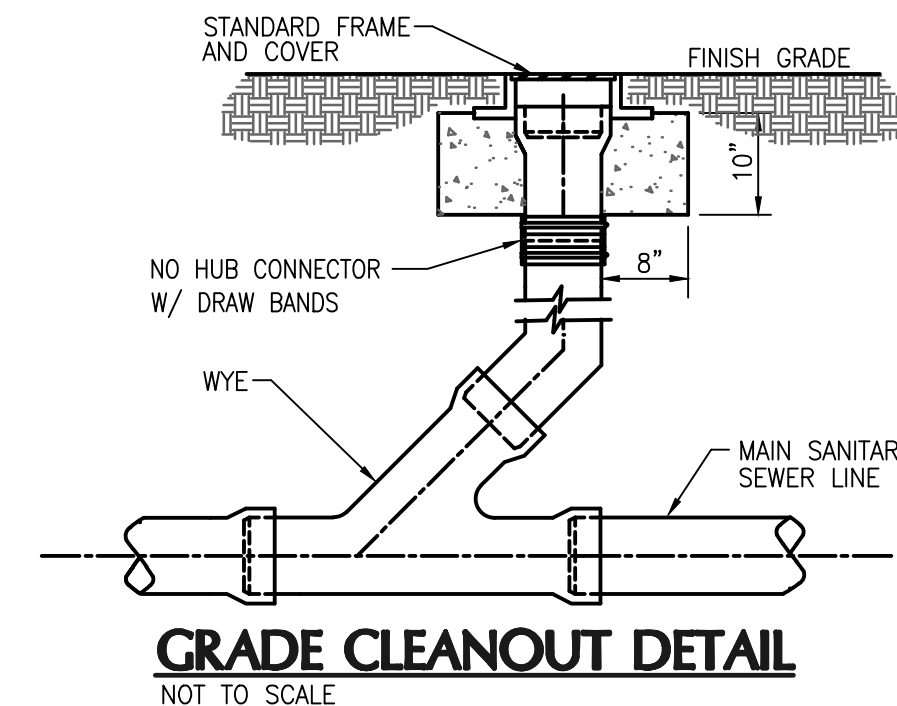
RECESSED HOSE BIBB DETAIL
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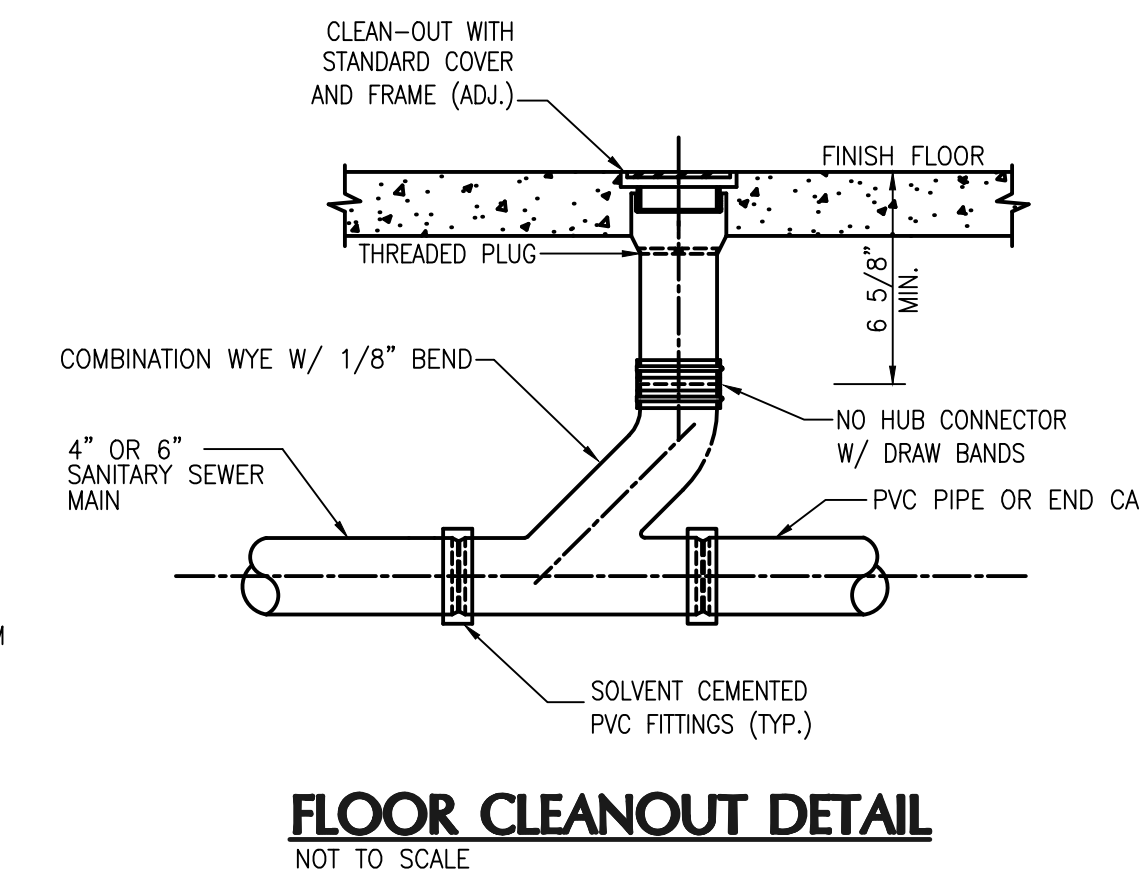
PIPE HANGERS AND SUPPORTS DETAIL
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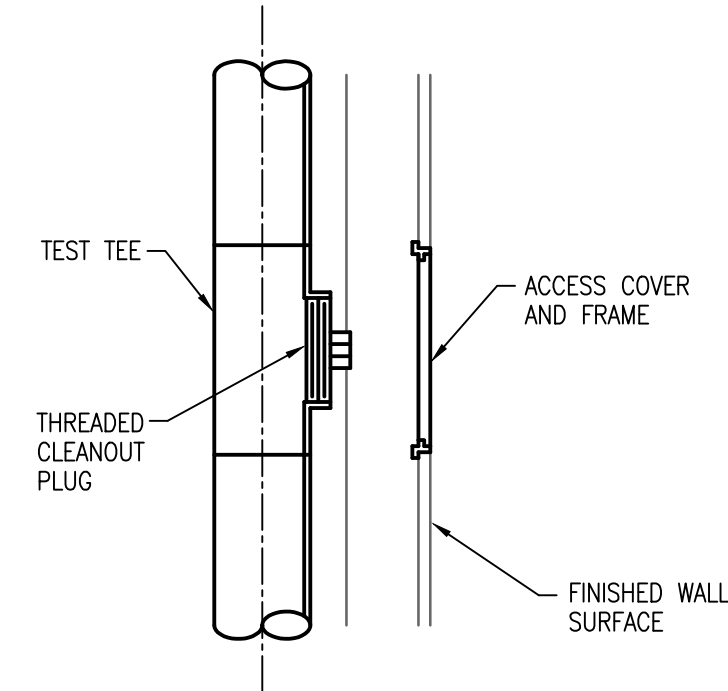
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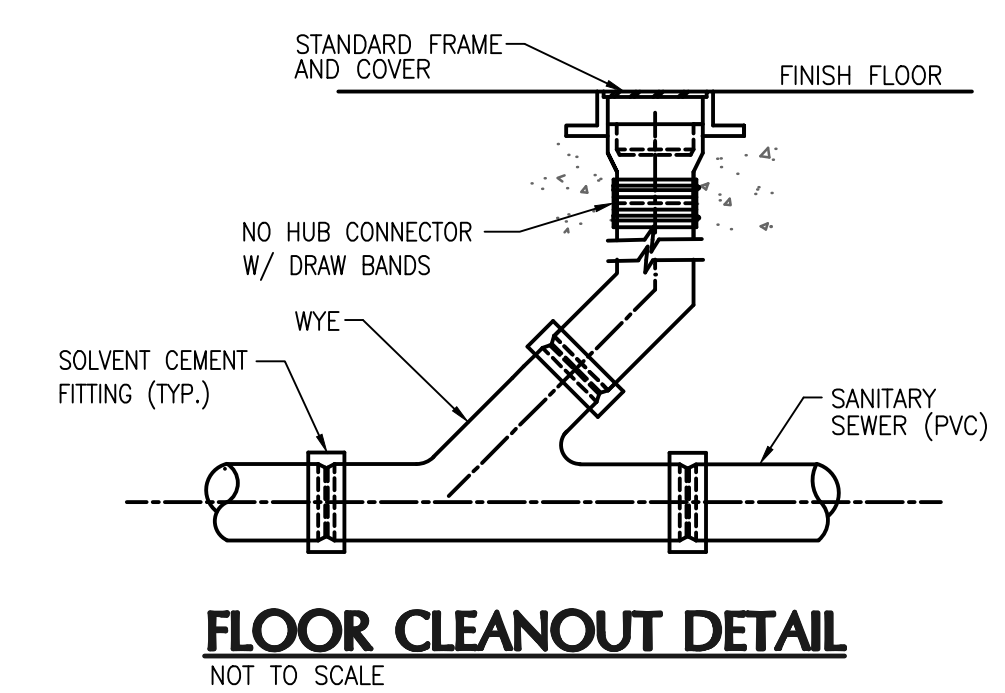
GRADE CLEANOUT DETAIL
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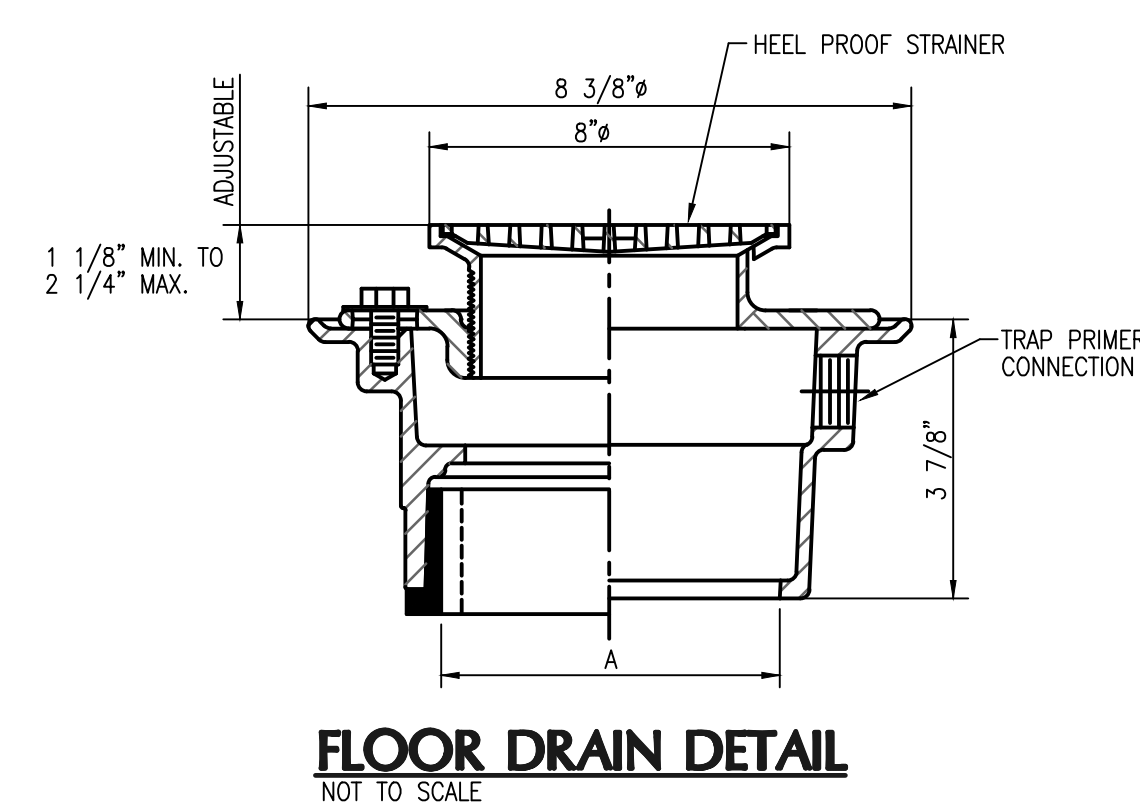
FLOOR CLEANOUT DETAIL
NOT TO SCALE



WALL CLEANOUT DETAIL
NOT TO SCALE



FLOOR CLEANOUT DETAIL
NOT TO SCALE



FLOOR DRAIN DETAIL
NOT TO SCALE

OCP JOHN YOUNG PARK: STORAGE AND RESTROOM BUILDING

	BOBES ASSOCIATES CONSULTING ENGINEERS 1111 ORANGE AVENUE, SUITE 200 ORLANDO, FLORIDA 32838 PHONE: 407.541.5000 FAX: 407.541.5008	BORRELLI PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIOR 770 VASSAR STREET ORLANDO, FL 32804 (407) 418-1338	SIGNATURE AND DATED SEAL AUGUSTO E. BOBES, JR., P.E. FLORIDA P.E. # 39410
	PLUMBING DETAILS		
PROJECT NO. 14-124	DATE 11-12-14	PROJECT ADDRESS	DRAWING TITLE
PHASE 80 PERCENT DOCUMENTS	SCALE 1/4" = 1'-0"	OWNER NAME AND ADDRESS	OWNER NAME AND ADDRESS
FILE NAME 13-124-E-01	DRAWN BY ME	ORANGE COUNTY PARKS	ORANGE COUNTY PARKS
CHECKED BY ABE	DATE 09-30-14	400 E. SOUTH STREET	400 E. SOUTH STREET
DATE	DATE	5TH FLOOR	5TH FLOOR
		ORLANDO, FLORIDA 32801	ORLANDO, FLORIDA 32801

LIGHTING FIXTURE SCHEDULE							
FIXTURE TYPE	FIXTURE DESCRIPTION	LAMPS		MANUFACTURER		VOLTS	REMARKS
		QTY	TYPE	NAME	CATALOG #		
A	4' CEILING MOUNT HIGH PERFORMANCE LED FIXTURE, VANDAL RESISTANT, ALL ALUMINUM CONSTRUCTION, POLYCARBONATE OPAL LENS, WET LISTING, BRONZE FINISH	-	LED 4000K 82 CRI	LUMINAIRE LED	VPF12-4-84WHP-4000K-120-OP-BRZ-WET-TX/SD	120	
AE	SAME AS "A" WITH 2400 LUMEN SELF CONTAINED 90 MINUTE EMERGENCY BATTERY PACK	-	LED 4000K 82 CRI	LUMINAIRE LED	VPF12-4-84WHP-4000K-120-OP-BRZ-WET-EMB722-TX/SD	120	
B	4' SLIMLINE SURFACE MOUNT LED FIXTURE, C.R.S. HOUSING, ROUND FROSTED ACRYLIC SHIELDING, WHITE FINISH	-	LED 4000K 80 CRI	WILLIAMS	LLMS-4-LED*UT25/840-S-RD-ED*UT-UNV	120	
C	17" DIA. HIGH OUTPUT LED FIXTURE, VANDAL RESISTANT, ALUMINUM BASE PLATE, POLYCARBONATE OPAL LENS, WET LISTING, BRONZE FINISH	-	LED 4000K 82 CRI	LUMINAIRE LED	ARV17HO-49WHP-4000K-120-OP-BRZ-TX/SD	120	
CE	SAME AS "C" WITH 2400 LUMEN SELF CONTAINED 90 MINUTE EMERGENCY BATTERY PACK	-	LED 4000K 82 CRI	LUMINAIRE LED	ARV17HO-49WHP-4000K-120-OP-BRZ-EMB722-TX/SD	120	
D	4' NARROW WRAP LED FIXTURE, CEILING MOUNT, STEEL HOUSING, PRISMATIC LENS	-	LED 4000K 80 CRI	INDUSTRIAL LIGHTING PRODUCTS	FWN-40WLED-UNIV-4000K	120	
EM	EMERGENCY FIXTURE, WHITE HOUSING, NICKEL CADMIUM BATTERY	-	LED	BEGHELLI	PEH-1	120	
F	13" OVAL HIGH OUTPUT LED FIXTURE, VANDAL RESISTANT, ALUMINUM BASE PLATE, POLYCARBONATE OPAL LENS, WET LISTING, BRONZE FINISH	-	LED 4000K 82 CRI	LUMINAIRE LED	YOWV13HO-20WHP-4000K-120-OP-BRZ-TX/SD	120	
X	EXIT SIGN, UNIVERSAL, LED LAMPS, BLACK ALUMINUM HOUSING WITH RED LETTERS, NI-CAD BATTERY, VANDAL RESISTANT, WET LISTING	-	FURNISHED	BEGHELLI	FTZ-SA-LR-1-C-AT	120	

1. ANY ALTERNATES MUST BE SUBMITTED 14 WORKING DAYS PRIOR TO BID DATE. SUBMITTAL WILL INCLUDE COMPLETE BOOKLET OF CUT SHEETS FOR BOTH SPECIFIED AND PROPOSED ALTERNATES AND ANY REQUIRED PHOTOMETRIC CALCULATIONS.

GENERAL NOTES

(APPLIES TO ALL DRAWINGS)

- BRANCH WIRING IS NOT SHOWN GRAPHICALLY ON DRAWING AND IS INDICATED BY CIRCUIT NUMBERS BESIDE FIXTURES, DEVICES AND EQUIPMENT. PROVIDE COMPLETE WIRING SYSTEM WHETHER OR NOT INDICATED GRAPHICALLY.
- LIGHTING FIXTURES ARE SHOWN FOR QUANTITY AND CIRCUITING ONLY. FOR EXACT LOCATION OF LIGHTING FIXTURES, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS. COORDINATE WORK WITH CEILING CONTRACTOR. PROVIDE PROPER FIXTURE FRAMES FOR TYPE OF CEILING INDICATED.
- FOR EXACT ARCHITECTURAL LAYOUT AND DIMENSIONS, COORDINATE WITH ARCHITECTURAL DRAWINGS. ELECTRICAL DRAWINGS ARE FOR REFERENCE ONLY.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND 2008 NATIONAL ELECTRICAL CODE (NEC).
- COORDINATE ALL WORK DONE UNDER THIS DIVISION WITH WORK TO BE PERFORMED UNDER DIVISION 15.
- COORDINATE WITH OTHER TRADES FOR EXACT LOCATIONS OF ALL MOTORS AND OTHER EQUIPMENT TO BE INSTALLED AND/OR WIRED UNDER THIS DIVISION BUT FURNISHED UNDER ANOTHER DIVISION OF THE SPECIFICATIONS.
- ALL BRANCH CIRCUITS FOR 120 VOLT, 20 AMP CIRCUITS EXCEEDING EIGHTY FEET IN LENGTH SHALL BE INCREASED IN SIZE AS REQUIRED TO ALLOW FOR VOLTAGE DROP LOSSES.
- PACK ALL SLEEVES FOR CONDUITS PASSING THROUGH FIRE RATED WALLS AND FLOOR SLABS WITH FIRE RESISTANT MATERIALS. ALL PENETRATIONS SHALL BE UL RATED.
- ALL EMPTY CONDUITS (EC) SHALL BE PROVIDED WITH NYLON PULL WIRES.
- TYPE AC CABLE AND ELECTRICAL NON-METALLIC TUBING SHALL NOT BE PERMITTED. TYPE MC CABLE IS PERMITTED AS LONG AS IT IS ACCEPTABLE TO THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
- COORDINATE THE REQUIRED SIZE OF ALL CIRCUIT BREAKERS FEEDING EQUIPMENT (I.E. MOTORS, HVAC, KITCHEN EQUIPMENT, SPECIAL PURPOSE OUTLETS, OWNER FURNISHED EQUIPMENT, ETC.) WITH APPROVED EQUIPMENT SHOP DRAWINGS AND OWNER REPRESENTATIVES PRIOR TO ORDERING PANELBOARDS. BREAKERS SHALL BE SIZED PER THE NEC, THE EQUIPMENT NAME PLATE AND MANUFACTURER'S RECOMMENDATIONS.
- THE POWER COMPANY SHALL BE CONTACTED WITHIN 10 DAYS OF THE AWARD OF THE CONTRACT BY THE CONTRACTOR TO VERIFY THE ACTUAL AVAILABLE SHORT CIRCUIT FAULT CURRENT (SCC) AT THE TRANSFORMER SECONDARY BUSHINGS. THE CONTRACTOR SHALL PROVIDE ELECTRICAL DISTRIBUTION AND UTILIZATION EQUIPMENT AND PANELBOARDS WHICH HAVE AIC/WITHSTAND RATINGS GREATER THAN THE AVAILABLE SCC.
- ALL CONDUITS IN OR UNDER SLAB OR UNDERGROUND SHALL BE PVC SCHEDULE 40.
- ALL CONDUITS ABOVE SLAB, WHETHER EXPOSED OR CONCEALED, SHALL BE EMT, IMC, OR RIGID GALVANIZED STEEL.
- FLEXIBLE METAL RACEWAYS SHALL NOT EXCEED 6' IN LENGTH.
- "LIQUID-TIGHT" TYPE FLEXIBLE WEATHERPROOF RACEWAYS SHALL HAVE A METALLIC INTERIOR AND NOT EXCEED 6' IN LENGTH.
- ALL BOXES, PLASTER RINGS, EXTENSION RINGS, AND BOX COVERS SHALL BE METAL.
- ALL CONDUITS SHALL BE PARALLEL AND PERPENDICULAR TO STRUCTURAL MEMBERS.
- ALL BENDS SHALL BE MADE IN CONDUIT USING PROPER EQUIPMENT AND MEET NATIONAL ELECTRICAL CODE (NEC) REQUIREMENTS.
- ALL WIRE, INCLUDING BUT NOT LIMITED TO FEEDERS AND BRANCH CIRCUIT WIRING, SHALL BE COPPER - #12 AWG THWN MINIMUM EXCEPT FOR LOW-VOLTAGE WIRING FOR COMMUNICATIONS SYSTEMS, WHICH MAY BE SMALLER.
- ALL BREAKERS SHALL BE "FULL SIZE". NO TANDEM, PIGGY BACK, TWIN, OR HALF SIZE BREAKERS WILL BE ACCEPTED.
- ALL DEVICES SHALL BE COMMERCIAL OR SPECIFICATION GRADE.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY POWER AND TEMPORARY LIGHTING DURING CONSTRUCTION. TEMPORARY POWER SHALL PROVIDE ADEQUATE POWER FOR NORMAL CONSTRUCTION USE. TEMPORARY LIGHTING SHALL PROVIDE ADEQUATE LIGHT SO THAT THE INDIVIDUAL TRADES WORK CAN BE COMPLETED.
- ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED.
- A GREEN INSULATED COPPER GROUND CONDUCTOR SHALL BE INSTALLED IN ALL RACEWAYS.
- GROUNDING SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250 AND APPLICABLE REQUIREMENTS OF IEEE STANDARDS 142 AND 241.
- TEST RESISTANCE TO GROUND (EARTHING CONNECTION) WITH RESISTANCE TESTER SUBSEQUENT TO FINAL INSTALLATION. WHERE TEST INDICATES RESISTANCE TO GROUND IS OVER 5 OHMS, TAKE APPROPRIATE ACTION TO REDUCE RESISTANCE TO 5 OHMS OR LESS BY DRIVING ADDITIONAL PROPERLY SPACED GROUND RODS AND TREATING SOIL IN PROXIMITY OF GROUND RODS WITH COMMON SALT, COPPER SULFATE OR MAGNESIUM SULFATE. REPEAT TO DEMONSTRATE COMPLIANCE.
- CONDUCTORS ARE SIZED FOR VOLTAGE DROP PER N.E.C. ARTICLE 210.19(A)(1) FPN No. 4 AND F.B.C. 505.7.3.1&2. ELECTRICAL CONTRACTOR SHALL PERFORM VOLTAGE DROP CALCULATIONS IN ACCORDANCE WITH N.E.C. ARTICLE 210.19 (A)(1) FPN No. 4 AND F.B.C. 505.7.3.1&2 ON ANY CIRCUITS THAT ARE INSTALLED THAT DIFFER FROM THE DESIGN SHOWN IN THESE PLANS. FEEDER CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% AND BRANCH CIRCUIT CONDUCTORS 3% AT DESIGN LOAD.
- LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS PER FIELD TECHNICAL INFORMATION NO. 40. LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE ONE 12 GAGE HANGER WIRE CONNECTED FROM THE FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING MORE THAN 10 POUNDS SHALL HAVE TWO 12 GAGE WIRES ATTACHED AT OPPOSING CORNERS OF EACH LIGHT FIXTURE.
- ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERABLE FIRE ALARM SYSTEM INCLUDING ALL REQUIRED EQUIPMENT, DEVICES, COMPONENTS, PERMITS, INSPECTIONS AND CERTIFICATIONS AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
- PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM FOR THE BUILDING TO COMPLY WITH THE REQUIREMENTS OF NFPA 70, NFPA 780, LPI STANDARDS 175, 176, AND 177. PROVIDE COMPONENTS WHICH ARE UL-LISTED AND MASTER LABELED.

ELECTRICAL SYMBOL LIST

(SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT.)

	RECESSED LED FIXTURE
	SURFACE MOUNTED LED FIXTURE
	WALL MOUNTED LED FIXTURE
	DOWNLIGHT OR PENDANT LED FIXTURE
	WALL MOUNTED LED FIXTURE
	CEILING MOUNTED EXIT LIGHT. ARROW INDICATES DIRECTIONAL ARROW ON FIXTURE, SHADED AREA INDICATES FACE OF FIXTURE.
	WALL OR END MOUNTED EXIT LIGHT
	EMERGENCY FIXTURE
	PHOTOCELL
	SINGLE POLE SWITCH, SUBSCRIPT LETTER INDICATES FIXTURE CONTROLLED. (3 = 3 WAY, 4 = 4 WAY, K = KEY OPERATED) MOUNTED 48" AFF
	DIMMER SWITCH, TYPE AND WATTAGE TO CONTROL FIXTURE
	QUAD RECEPTACLE
	20A, 2 POLE, 125V GROUNDED DUPLEX RECEPTACLE, 18" AFF UNLESS OTHERWISE NOTED. G = GROUND FAULT INTERRUPTER
	20A, 2 POLE, 125V GROUNDED DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTERTOP UNLESS OTHERWISE NOTED.
	TELEPHONE WALL OUTLET 18" AFF UNLESS OTHERWISE NOTED. PROVIDE 1" EC TO CEILING SPACE.
	TELEPHONE AND DATA DUPLEX OUTLET, LEVITON CAT. #41688-1 OR EQUAL, 18" AFF UNLESS OTHERWISE NOTED. PROVIDE 1" EC TO CEILING SPACE.
	TELEVISION OUTLET WITH 1" EC TO TTB. 18" AFF UNLESS OTHERWISE NOTED.
	CEILING MOUNTED JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	CONNECTION TO EQUIPMENT
	PUSHBUTTON
	MOTOR HORSEPOWER RATED TOGGLE SWITCH BY DIVISION 15
	NONFUSED DISCONNECT SWITCH. NUMBERS INDICATE SWITCH SIZE.
	FUSED DISCONNECT SWITCH. FUSES SIZED AS SHOWN ON DRAWINGS.
	MOTOR
	PANELBOARD
	FIRE ALARM/SECURITY CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	INTERCOM
	CEILING SPEAKER
	TELEPHONE TERMINAL BOARD (TTB)
	FIRE ALARM STROBE LIGHT, MOUNTED 80" AFF
	FIRE ALARM MANUAL PULL STATION, MOUNTED 48" AFF
	FIRE ALARM HORN WITH STROBE LIGHT, MOUNTED 80" AFF
	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	KEY LOCK BOX
	HEAT DETECTOR
	DUCT SMOKE DETECTOR
	SMOKE DETECTOR
	HOOD FIRE SUPPRESSION SYSTEM PULL STATION
	AHU FIRE ALARM SHUTDOWN RELAY
	SECURITY SYSTEM DOOR CONTACT
	SECURITY SYSTEM ALARM HORN
AFF	ABOVE FINISHED FLOOR
FF	FINISHED FLOOR
AHU	AIR HANDLING UNIT
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
G	GROUND FAULT INTERRUPTER
CU	CONDENSING UNIT
WP	WEATHERPROOF (NEMA-3R)
NL	NIGHT LIGHT
ST	SHUNT TRIP
IG	ISOLATED GROUND

OCP JOHN YOUNG PARK: STORAGE AND RESTROOM BUILDING

BORBELL PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR

720 VASSER STREET
ORLANDO, FL 32804 (407) 418-1338

CONSULTANTS

BOBES ASSOCIATES
CONSULTING ENGINEERS

1111 N. ORANGE AVE., SUITE 200
ORLANDO, FL 32801
PHONE: 407-252-3333
FAX: 407-252-3339

PROJECT ADDRESS

ORANGE COUNTY PARKS
400 E. SOUTH STREET
5TH FLOOR
ORLANDO, FLORIDA 32801

DRAWING TITLE

GENERAL NOTES,
SYMBOL LIST AND
LIGHTING FIXTURE SCHEDULE

PROJECT NO. 14-124

PHASE BR/RES/INT DOCUMENTS

SCALE NONE

FILE NAME 13-131-E-001

DRAWN BY WMC

CHECKED BY ABJ

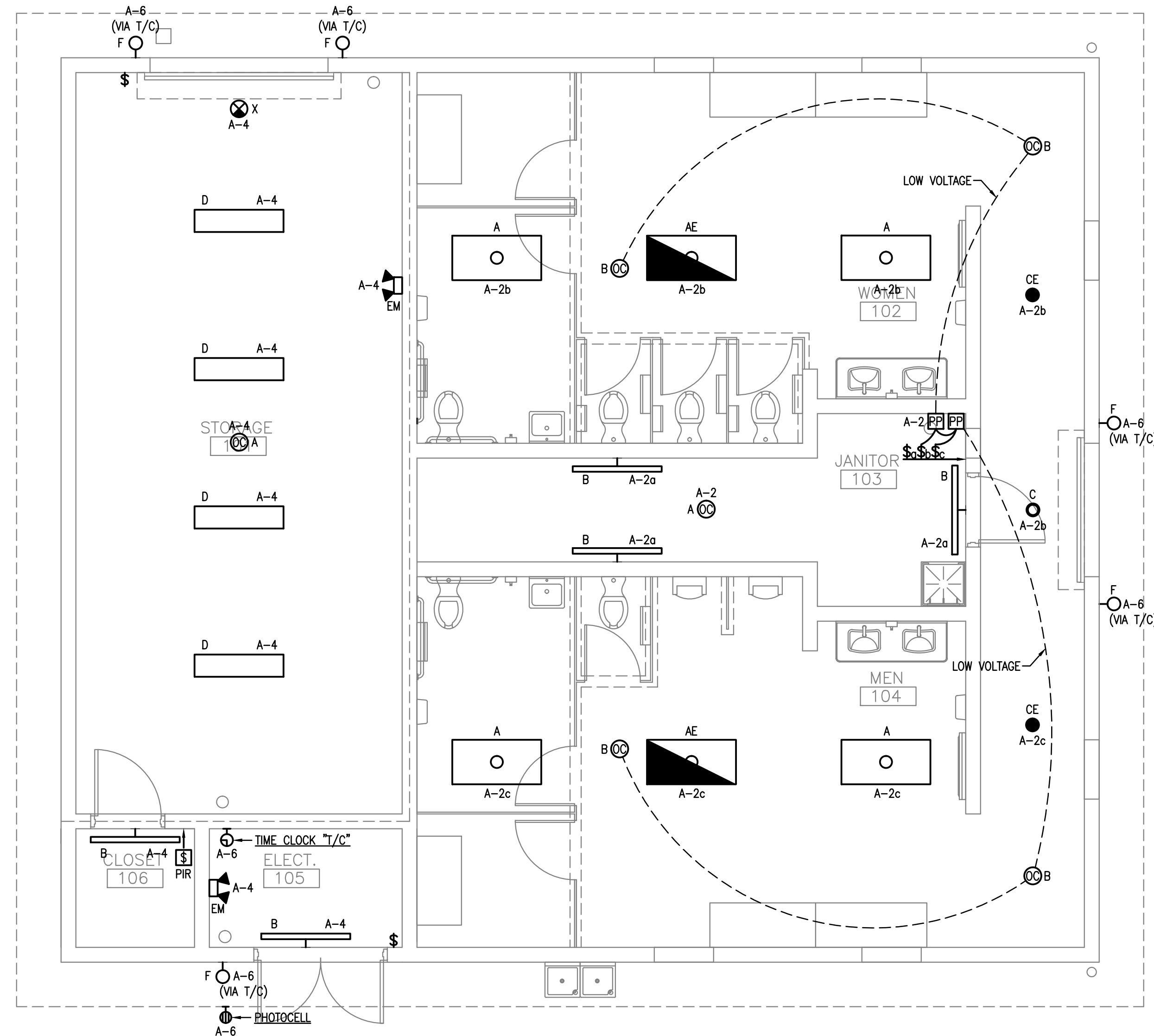
DATE 09-30-14

REV.

DESCRIPTION

DATE

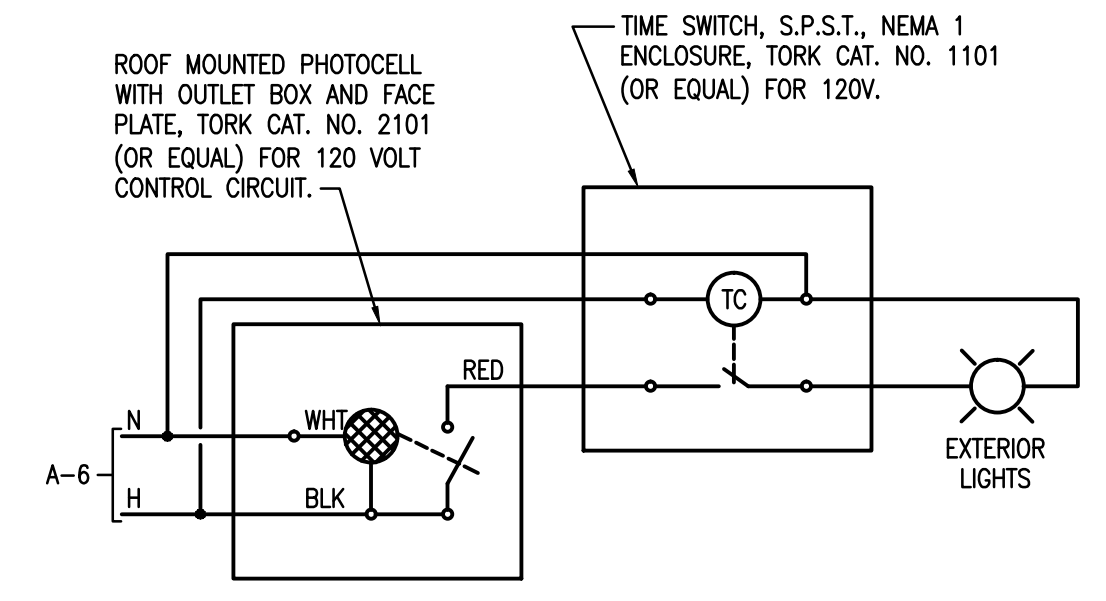
E-001



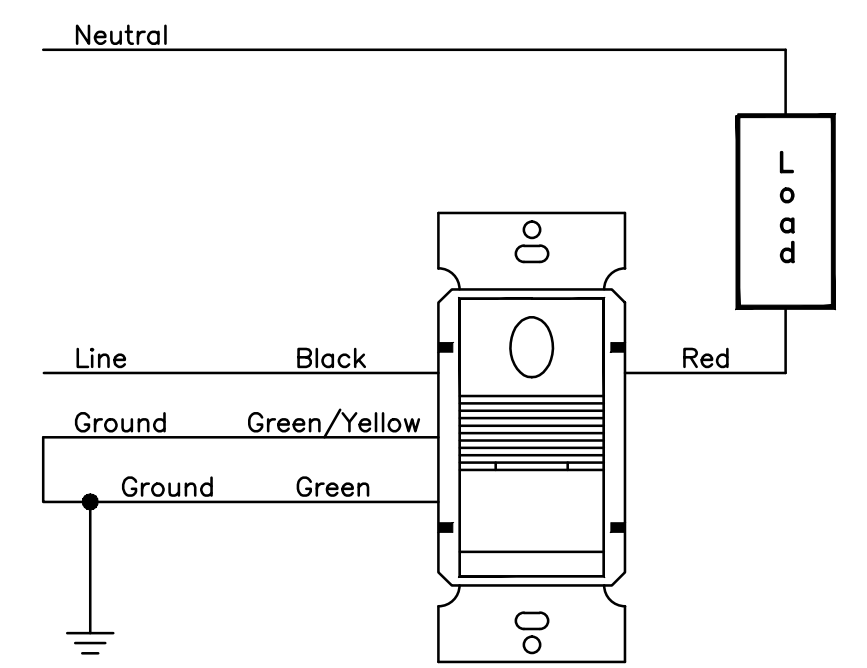
GENERAL NOTES

- REFER TO COMPLETE GENERAL NOTES ON SHEET E-001.
- COORDINATE EXACT LOCATION OF ALL LIGHTING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- CONNECT ALL EMERGENCY FIXTURES AND EXIT SIGNS TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY CONTROLS.
- NUMBERS ON THE PLAN THAT ARE SHOWN NEXT TO DEVICES INDICATE THE CIRCUIT NUMBER FEEDING THAT DEVICE. SEE PANEL SCHEDULE.

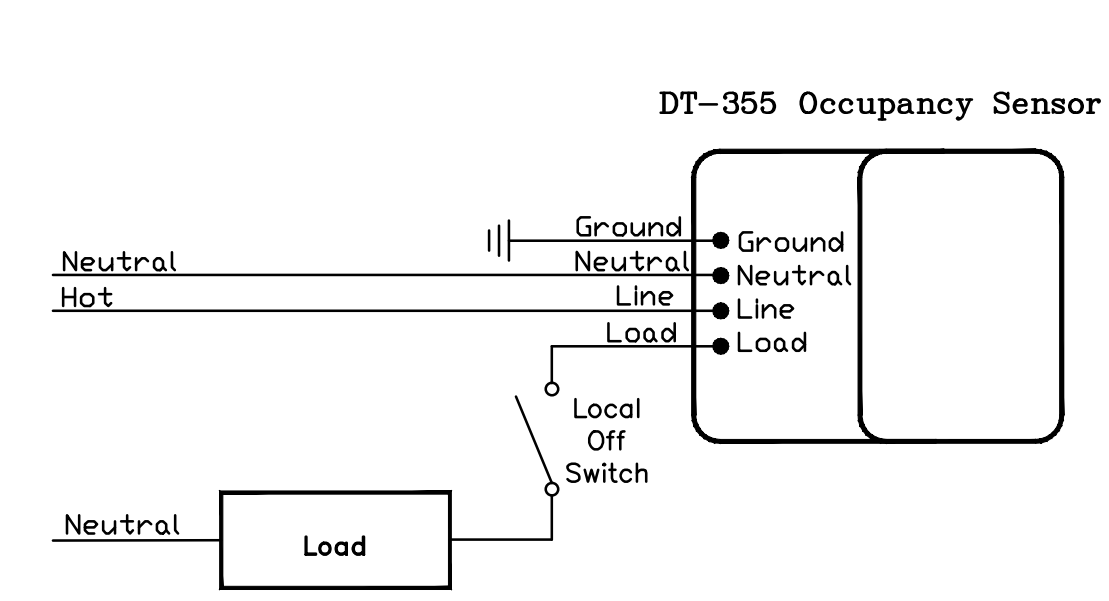
1 FLOOR PLAN - LIGHTING
E-101 1/4"=1'-0"



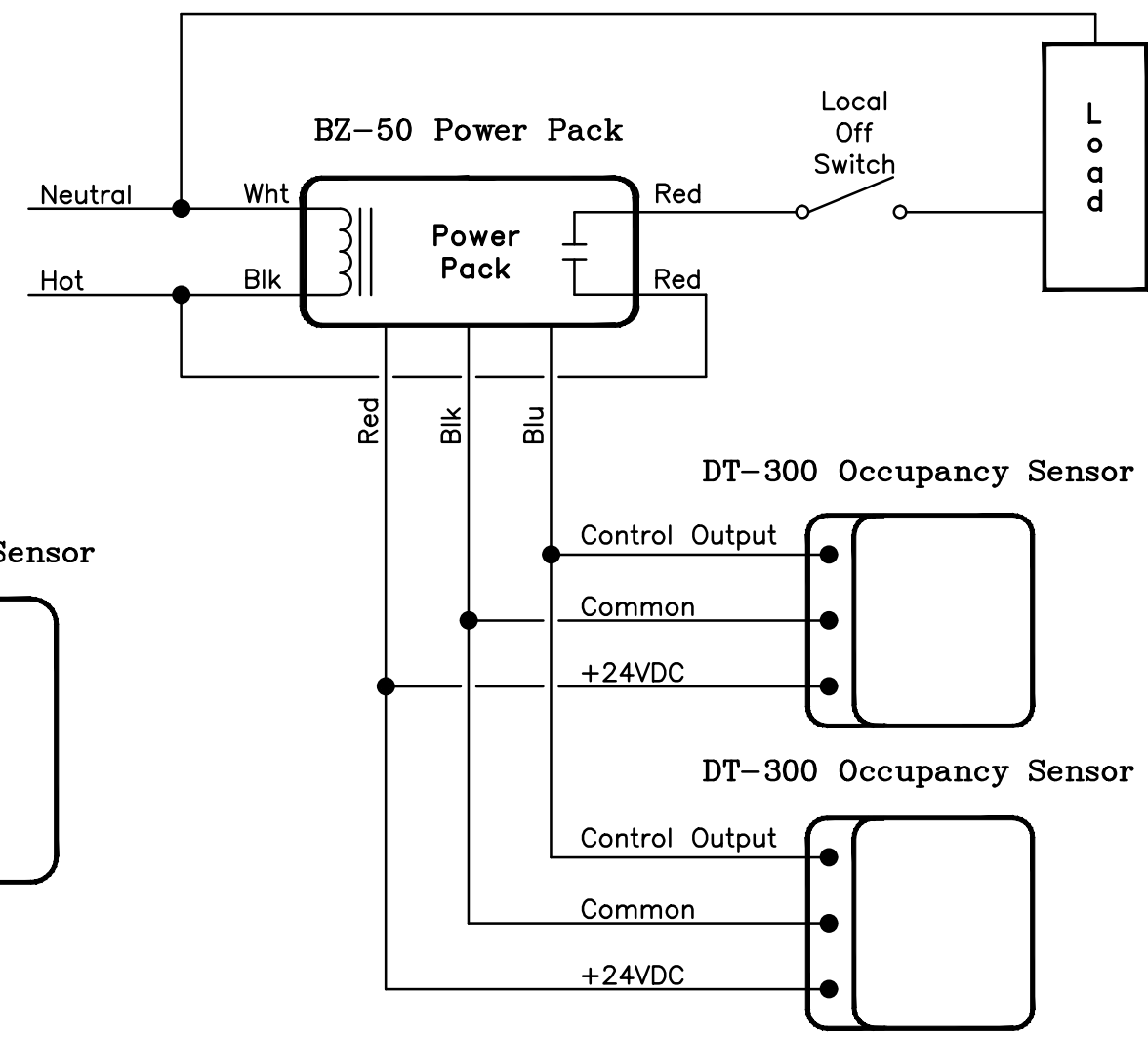
PHOTOCELL ON / TIME CLOCK OFF EXTERIOR LIGHTING CONTROL WIRING DIAGRAM
SCALE: N.T.S.



TYPICAL PW-100 WALL SWITCH SENSOR WIRING DIAGRAM
SCALE: N.T.S.



TYPICAL DT-355 OCCUPANCY SENSOR WIRING DIAGRAM
SCALE: N.T.S.



TYPICAL DT-300 OCCUPANCY SENSOR WIRING DIAGRAM
SCALE: N.T.S.

WATTSTOPPER LEGEND

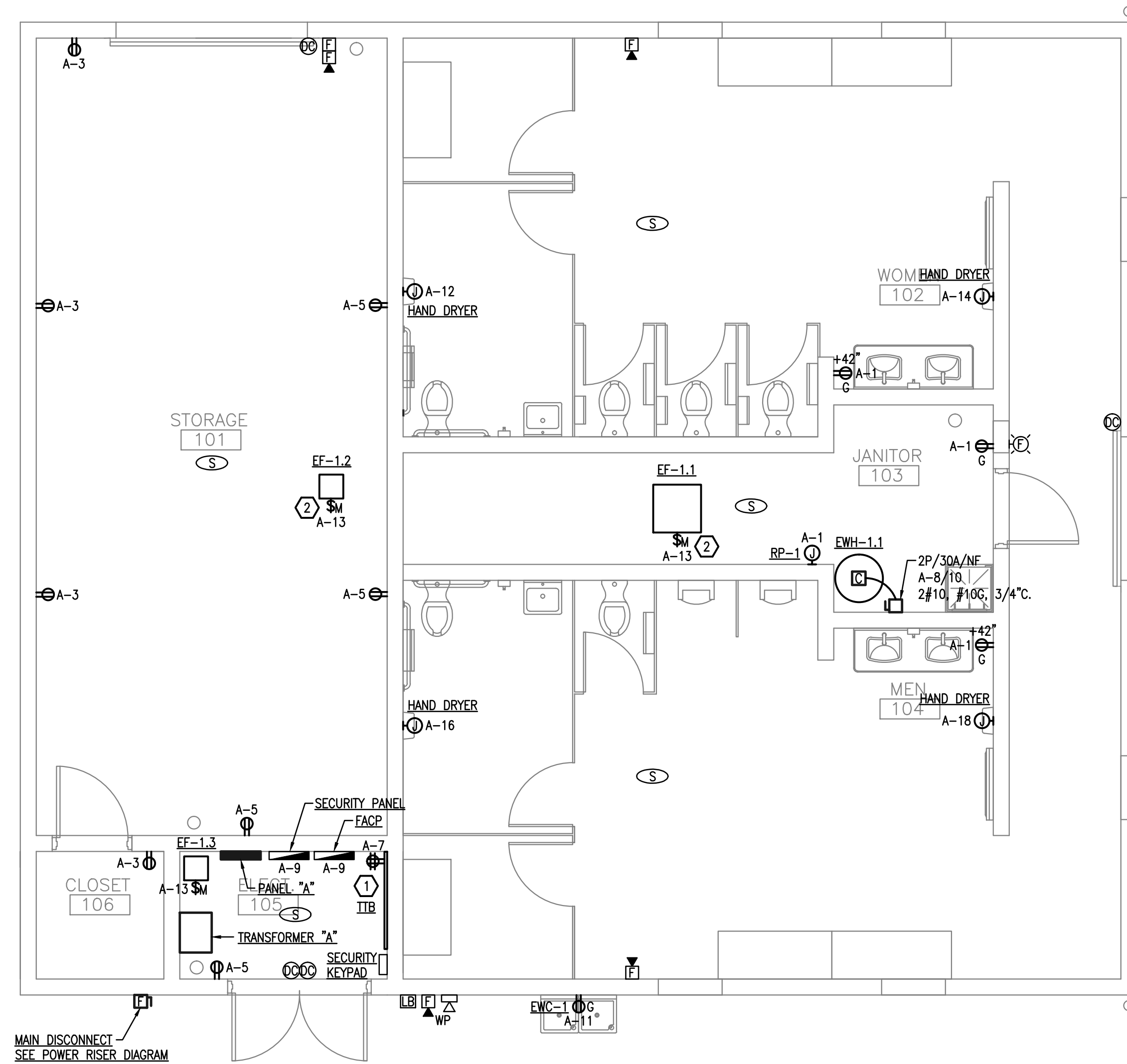
- PIR [S] PW-100-W, PASSIVE INFRARED WALL SWITCH SENSOR, 120VAC, 800 WATTS
- A [C] DT-355, DUAL TECHNOLOGY LINE VOLTAGE CEILING SENSOR, 120VAC, 800 WATTS
- B [C] DT-300, SERIES DUAL TECHNOLOGY CEILING MOUNT SENSOR, 24VDC
- [P] BZ-50, UNIVERSAL VOLTAGE POWER PACK

OCCUPANCY SENSOR NOTES

- THE BASIS OF LIGHTING CONTROL FOR THIS PROJECT IS COMPONENTS MANUFACTURED BY WATTSTOPPER, INC. ALL EQUIPMENT SHALL BE LOCATED, INSTALLED AND PROGRAMMED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
- ADDITIONAL SENSORS MAY BE REQUIRED TO PROVIDE COMPLETE COVERAGE DEPENDING ON PARTITION HEIGHT/PLACEMENT, FURNITURE PLACEMENT, EQUIPMENT HEIGHT/PLACEMENT AND SHELVING HEIGHT/PLACEMENT.
- LIGHTING CONTROL AND SENSOR LAYOUTS ARE DONE ACCORDING TO CURRENT FLORIDA ENERGY CODE AND FEDERAL ENERGY GUIDELINES UNLESS SPECIFIED OTHERWISE.
- PROGRAMMING OF DIGITAL DEVICES SHALL BE VIA A REMOTE HANDHELD IR PROGRAMMER CONTROL.

OCP JOHN YOUNG PARK: STORAGE AND RESTROOM BUILDING

<p>BORELLI PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIOR 770 VASSAR STREET ORLANDO, FL 32804 (407) 418-1338</p>		<p>ROBES ASSOCIATES CONSULTING ENGINEERS 1111 W. COLLETTA AVENUE, SUITE 200 ORLANDO, FL 32808 FLORIDA STATE REG. NO. 13088 FLORIDA STATE REG. NO. 13088</p>	
<p>CONSULTANTS</p>		<p>CONTRACTOR</p>	
<p>PROJECT ADDRESS</p>		<p>OWNER NAME AND ADDRESS</p>	
<p>DATE</p>		<p>ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801</p>	
<p>DESCRIPTION</p>		<p>DATE</p>	
<p>REV.</p>		<p>DATE</p>	
<p>PROJECT NO.</p>		<p>DATE</p>	
<p>PHASE</p>		<p>DATE</p>	
<p>SCALE</p>		<p>DATE</p>	
<p>AS NOTED</p>		<p>DATE</p>	
<p>FILE NAME</p>		<p>DATE</p>	
<p>DRAWN BY</p>		<p>DATE</p>	
<p>CHECKED BY</p>		<p>DATE</p>	
<p>DATE</p>		<p>DATE</p>	



1 FLOOR PLAN - POWER AND SYSTEMS
E-201 1/4"=1'-0"

GENERAL NOTES

1. REFER TO COMPLETE GENERAL NOTES ON SHEET E-001.
2. NUMBERS ON THE PLAN THAT ARE SHOWN NEXT TO DEVICES INDICATE THE CIRCUIT NUMBER FEEDING THAT DEVICE. SEE PANEL SCHEDULE.
3. FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND EQUIPMENT POINT OF CONNECTION, REFER TO MECHANICAL DRAWINGS AND MANUFACTURER'S SHOP DRAWINGS.
4. ALL CIRCUIT FEEDERS AND DISCONNECTS SHALL BE SIZED AND LOCATED PER REQUIREMENTS OF NATIONAL ELECTRICAL CODE. CONTRACTOR IS TO VERIFY DISCONNECT SWITCH AND FUSE SIZES WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWING PRIOR TO PLACING ORDER AND PROVIDE EVERYTHING AS REQUIRED. CONTRACTOR IS TO COORDINATE ALL ELECTRICAL REQUIREMENTS WITH MANUFACTURER/OWNER'S PURCHASING AGENT/COMMISSIONING AGENT/ELECTRICAL ENGINEER PRIOR TO ORDERING EQUIPMENT AND INSTALLING ELECTRICAL OUTLETS FOR EQUIPMENT FURNISHED BY OTHERS TO ASSURE CORRECT ELECTRICAL REQUIREMENTS AND CONNECTIONS ARE PROVIDED.

KEY NOTES

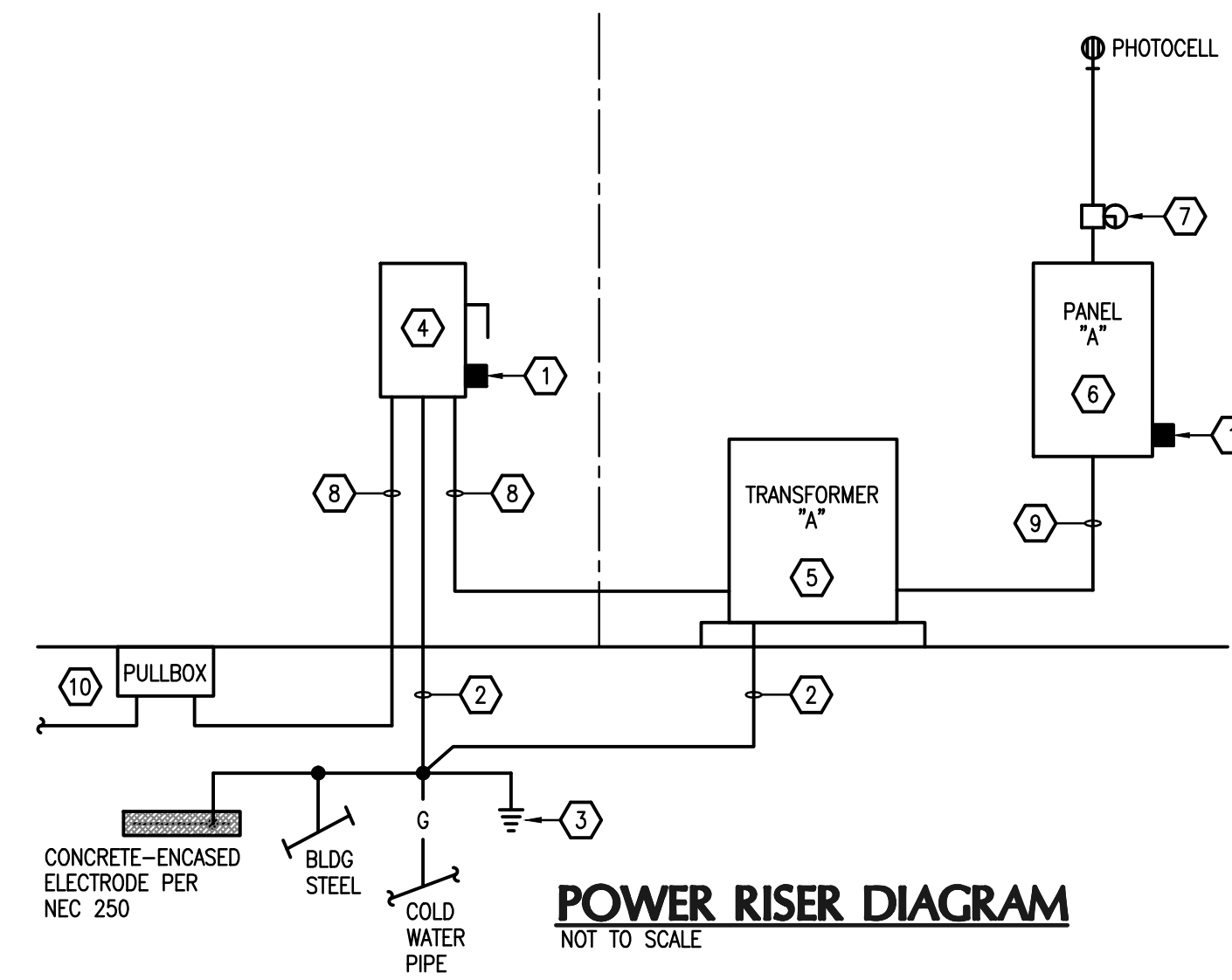
1. PROVIDE AND INSTALL A 4' WIDE X 4' HIGH X 3/4" THICK PLYWOOD BACKBOARD AND PAINT WITH (2) COATS OF FIRE RETARDANT GRAY PAINT TO MEET THE REQUIREMENTS OF TELEPHONE SERVICE PROVIDER, WITH A #8 AWG COPPER GROUNDING CONDUCTOR IN 3/4" PVC CONDUIT FROM BACKBOARD TO SERVICE ENTRANCE GROUND. INSTALL THE QUAD RECEPTACLE AT THE BOTTOM CORNER OF THE BACKBOARD. INSTALL A 2" EMPTY CONDUIT WITH PULL WIRE FROM BACKBOARD TO TELEPHONE POINT OF SERVICE. THE CONTRACTOR SHALL COORDINATE WITH ORANGE COUNTY ISS PRIOR TO INSTALLING DEMARK AND SHALL LOCATE THE BACKBOARD 5'-0" AFF.
2. EXHAUST FAN TO BE CONTROLLED BY TIME CLOCK LOCATED IN THE ELECTRICAL ROOM.

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 BORELLI PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIOR	720 VASSAR STREET ORLANDO, FL 32804 (407) 418-1338 <small>CONTRACTUAL AND LEGAL RIGHTS ARE RESERVED BY BORELLI PARTNERS. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF BORELLI PARTNERS, A/C CORP.</small>
 ROBES ASSOCIATES CONSULTING ENGINEERS	1111 W. COLLETT AVENUE, SUITE 200 ORLANDO, FL 32808 FLORIDA STATE REG. NO. 12588 AUGUSTO E. ROBES, JR., P.E. FLORIDA P.E. # 39410
DRAWING TITLE FLOOR PLAN POWER AND SYSTEMS	PROJECT ADDRESS ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801
PROJECT NO. 14-124 PHASE BR/PERMIT DOCUMENTS SCALE 1/4"=1'-0" FILE NAME 13-124-E-201 DRAWN BY WMC CHECKED BY ABJ DATE 09-30-14	REV. DESCRIPTION DATE 1 2

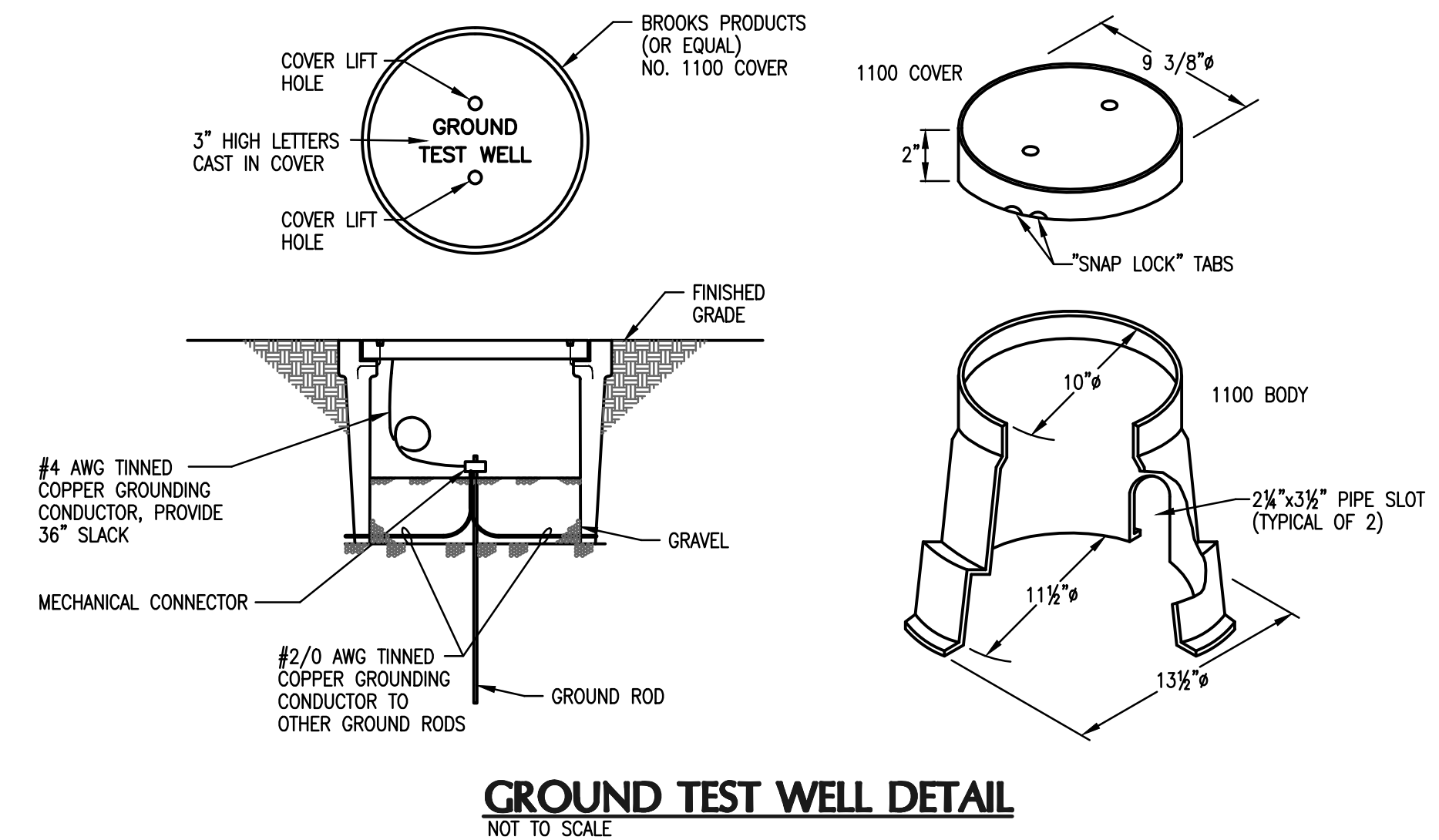
E-201

LOAD DESCRIPTION	WATTS PER PHASE			BKR	POLE	CKT	POLE	BKR	WATTS PER PHASE			LOAD DESCRIPTION		
	PH A	PH B	PH C						PH A	PH B	PH C			
RECEPTACLES - 102-104	720			20	1	1	2	1	20	729			LIGHTS - 102-104	
RECEPTACLES - 101,106		720		20	1	3	4	1	20	212			LIGHTS - 101,105,106	
RECEPTACLES - 101,105			720	20	1	5	6	1	20		100		LIGHTS - EXTERIOR	
TTB	360			20	1	7	8	2	25	2250			EW-1.1	
FACP, SECURITY PANELS (NOTE 1)		480		20	1	9	10	-	-	2250			-	
EW-1			660	20	1	11	12	1	20		1500		HAND DRYER	
EF-1.1, EF-1.2, EF-1.3	795			20	1	13	14	1	20	1500			HAND DRYER	
SPARE		X		20	1	15	16	1	20		1500		HAND DRYER	
SPARE	X			20	1	17	18	1	20		1500		HAND DRYER	
SPARE		X		20	1	19	20	X	X				SPACE	
SPARE		X		20	1	21	22	X	X				SPACE	
SPACE			X	X	X	23	24	X	X				SPACE	
SPACE	X			X	X	25	26	3	30	X			TVSS	
SPACE		X		X	X	27	28	-	-		X		-	
SPACE			X	X	X	29	30	-	-			X	-	
PANELBOARD SUB-TOTALS	1875	1200	1380							4479	3962	3100	PANELBOARD SUB-TOTALS	
LOAD CALCULATIONS:	CONNECTED LOAD (WATTS)									DEMAND FACTOR			ESTIMATED DEMAND LOAD (WATTS)	NOTES:
LIGHTING	1041									1.25			1301	1. PROVIDE CIRCUIT BREAKER WITH HANDLE LOCK.
RECEPTACLES (FIRST 10 KW)	2160									1.00			2160	
RECEPTACLES (REMAINDER)	X									0.50			X	
HVAC (WORST CASE)	795									1.00			795	
WATER HEATING	4500									1.00			4500	
KITCHEN	X									0.65			X	
MISCELLANEOUS	7500									1.00			7500	
PANELBOARD TOTALS:	15996W (44A)												16256W (45A)	



POWER RISER DIAGRAM KEY NOTES

- 1 PROVIDE AND INSTALL LISTED LIGHTNING ARRESTER ON THE SERVICE FEEDERS AND TRANSIENT VOLTAGE SURGE SUPPRESSOR ON THE PANEL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
- 2 #8 INSULATED COPPER GROUNDING ELECTRODE CONDUCTOR, INSTALL IN 1/2" C.
- 3 (3) - 3/4" x 10'-0" COPPERCLAD GROUND RODS. INSTALL 10'-0" APART IN A TRIANGLE AND CONNECT GROUND SYSTEM PER NEC ARTICLE 250. PROVIDE GROUND TEST WELL AT EACH GROUND ROD. REFER TO DETAIL.
- 4 PROVIDE AND INSTALL A FUSIBLE DISCONNECT SWITCH, 600V, 3P, 60A, NEMA 3R, SERVICE ENTRANCE RATED, WITH 45A FUSES.
- 5 PROVIDE AND INSTALL A 30KVA, 3 PHASE, 480V DELTA PRIMARY, 208Y/120V SECONDARY TRANSFORMER. INSTALL ON A CONCRETE HOUSEKEEPING PAD.
- 6 FOR PANELBOARD INFORMATION SEE PANEL SCHEDULE.
- 7 PROVIDE AND INSTALL TIME CLOCK AS SHOWN ON PLANS.
- 8 1" C. - 3#6, 1#8 GND.
- 9 1 1/4" C. - 4#3, 1#8 GND.
- 10 INSTALL BUILDING FEEDER THROUGH PULLBOX AND IN CONDUIT TO MAIN SERVICE ENTRANCE. PULLBOX, CONDUIT AND MAIN SERVICE ENTRANCE ARE BY SITE ELECTRICAL CONTRACTOR.



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BORRELLI PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
720 VASSAR STREET
ORLANDO, FL 32804 (407) 418-1338
CONVENTIONAL AND SPECIALTY DESIGN SERVICES
PARTICIPATING ARCHITECTS: BOBBI PARTNERS, AIA 0070

BOBES ASSOCIATES
CONSULTING ENGINEERS
1111 ORANGE AVENUE, SUITE 200
ORLANDO, FL 32801
FLORIDA STATE LICENSE NUMBER: 5131

PANEL SCHEDULES AND POWER RISER DIAGRAM

PROJECT NO.	14-124
PHASE	BID/FERMIT DOCUMENTS
SCALE	NONE
FILE NAME	13-1121-E-301
BROWN BY	WMC
CHECKED BY	ABJ
DATE	09-30-14

E-301