

# MANATEE COUNTY S.W.R.W.T.P

## ADMINISTRATION BUILDING RENOVATIONS

### DRAWING INDEX

#### GENERAL

2G1.0 ABBREVIATIONS, GENERAL NOTES & SYMBOLS

#### ARCHITECTURAL

2A0.1 CODE ANALYSIS & LIFE SAFETY PLAN  
2A2.0 DEMOLITION PLAN & FLOOR PLAN  
2A2.1 REFLECTED CEILING PLAN AND FURNITURE & EQUIPMENT PLAN  
2A2.2 OPS AND STORAGE ROOM EQUIPMENT PLAN & CASEWORK ELEVATIONS  
2A5.0 DOOR AND FINISH SCHEDULE, NOTES & REMARKS, DOOR & FRAME TYPES  
2A6.0 ENLARGED TOILET ROOM PLANS, ACCESSORY SCHEDULE AND ELEVATIONS  
2A6.1 DOOR DETAILS  
2A6.2 PROJECT SIGNAGE, DETAILS AND NOTES  
2A6.3 WALL TYPE DETAILS  
2A8.0 INTERIOR ELEVATIONS, MILLWORK SECTIONS & DETAILS

#### MECHANICAL

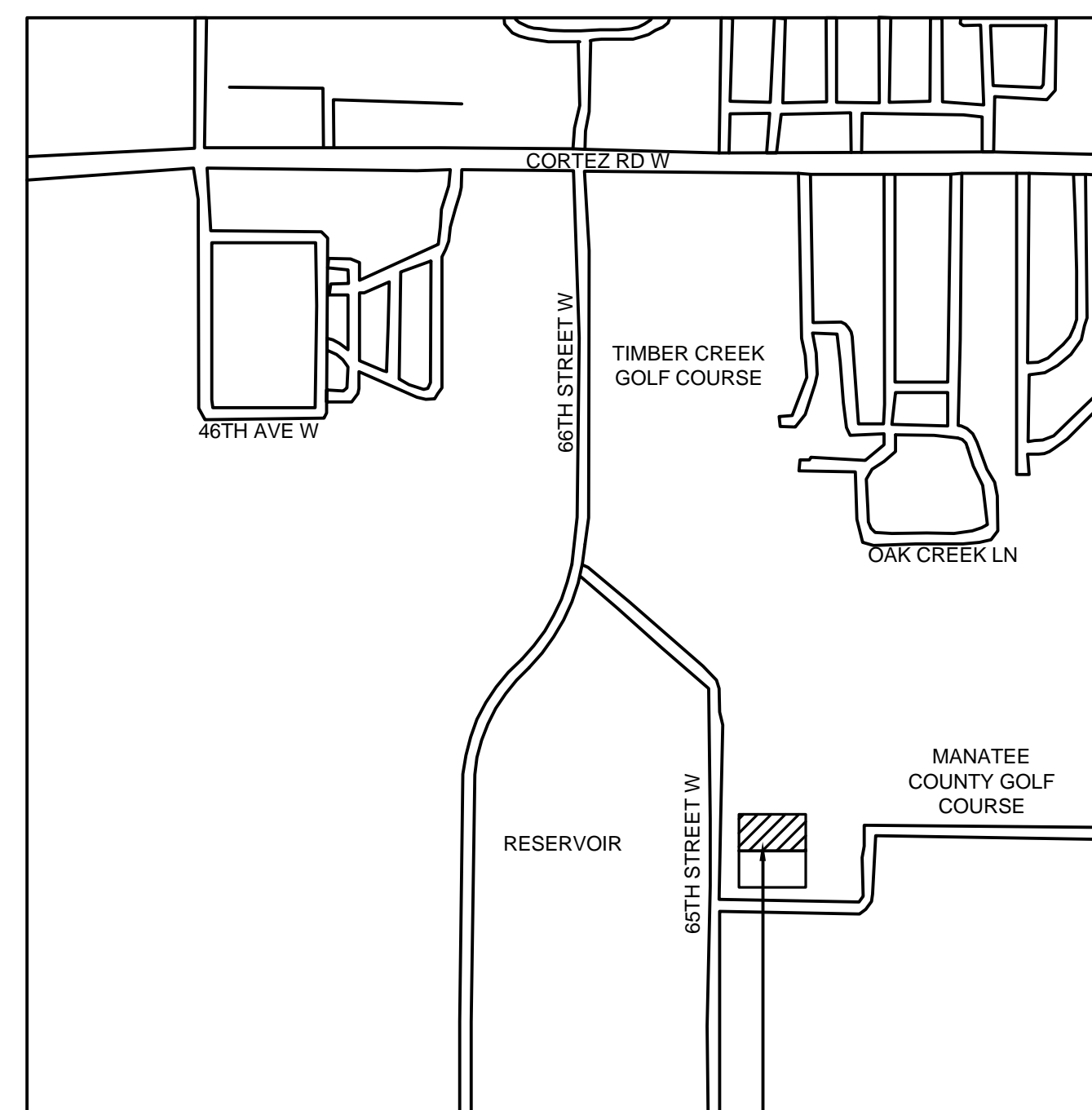
2M2.0 LABORATORY FACILITY HVAC DEMOLITION PLAN  
2M2.1 ADMINISTRATION HVAC CONSTRUCTION PLAN  
2M2.2 HVAC SCHEDULES, DETAILS, AND LEGEND

#### PLUMBING

2P2.0 PLUMBING DEMOLITION DRAINAGE FLOOR PLAN  
2P2.1 PLUMBING DEMOLITION SUPPLY ABOVE CEILING PLAN  
2P2.2 ADMINISTRATION BUILDING RENOVATIONS  
2P2.3 PLUMBING ISOMETRICS  
2P2.4 PLUMBING SCHEDULE AND DETAILS

#### ELECTRICAL

2E1.0 ELECTRICAL LEGEND & GENERAL NOTES  
2E2.0 LIGHTING PLAN  
2E3.0 POWER PLAN  
2E4.0 COMMUNICATIONS SYSTEMS PLAN  
2E5.0 POWER RISER DIAGRAM  
AE6.0 PANELBOARD SCHEDULES



ADMINISTRATION BUILDING LOCATION  
4410 66TH STREET WEST  
BRADENTON, FLORIDA

### SITE LOCATION MAP

ISSUED FOR BIDDING  
DECEMBER 8, 2008

URS Corporation Southern  
7650 West Courtney  
Campbell Causeway  
Tampa, FL 33607-1462  
No. 00000002

**URS**

**ABBREVIATIONS**

**ABBREVIATION NOTES:**

1. ABBREVIATIONS APPLY TO DRAWING SHEETS. ADDITIONAL ABBREVIATIONS NOT NOTED BELOW MAY OCCUR ON OTHER DRAWING SHEETS.
2. WORDS MAY OCCUR AS ABBREVIATIONS OR SPELLED OUT IN FULL.
3. THE CONTRACTOR SHALL BE FAMILIAR WITH THE ABBREVIATIONS AS LISTED BELOW.
4. ABBREVIATIONS FOLLOWED BY AN "S" INDICATE THE WORD HAS BEEN MADE PLURAL.

AIR CONDITIONING UNIT	ACU	LIGHTING	LTG
AIR CONDITIONING	A/C	LINEAR	LIN
ABOVE FINISH FLOOR	AFF	LINEAR FEET	LF
ADDITIONAL	ADDNL	LONG	LG
ALUMINUM	ALUM	MATERIAL	MATL
ANCHOR	ANC	MANUFACTURER	MANUF
ANCHOR BOLT	AB	MAXIMUM	MAX
ASPHALT	ASPH	MEAN SEA LEVEL	MSL
AUXILIARY	AUX	MECHANICAL	MECH
AVERAGE	AVG	MEDIUM	MED
BETWEEN	B/W	METAL	MTL
BLOCK	BLK	MINIMUM	MIN
BOTTOM	BOT OR B	MISCELLANEOUS	MISC
BUILDING	BLDG	NORTH/NORTHING	N
BUILDING LINE	BL	NORTHEAST	NE
CAST IRON	CI	NORTHWEST	NW
CENTERLINE	CL	NOT APPLICABLE	N/A
CENTER TO CENTER	C TO C	NOT IN CONTRACT	NIC
CEILING HEIGHT	CH	NOT TO SCALE	NTS
CIRCUIT	CKT	NUMBER	NO OR #
CLEARANCE	CLR	ON CENTER	O/C
COLUMN	COL	OPPOSITE	OPP
CONCRETE	CONC	OUTSIDE DIAMETER	OD
CONCRETE MASONRY UNIT	CMU	OVERHEAD	OH
CONSTRUCTION	CONST	PANEL	PNL
CONTROL JOINT	CJ	PAVEMENT	PVMT
CONTINUOUS	CONT	PERCENT	%
COPPER	CU	PLATE	PL
CUBIC INCH	CI	POLYVINYL CHLORIDE	PVC
DETAIL	DET	POUNDS	LBS
DIAMETER	DIA OR Ø	POUNDS PER SQUARE INCH	PSI
DIAGONAL	DIAG	PRESSURE TREATED	PT
DIMENSION	DIM	RADIUS	RAD OR R
DISTANCE	DIST	REFERENCE	RE
DOWN	DN	REINFORCING	REINF
DRAWING	DWG	REINFORCING BAR	REBAR
DRIVE	DR	REQUIRED	REQD
EACH	EA	REVISED	REV
EACH WAY	EW	ROOF DRAIN	RD
EAST/EASTING	E	ROADWAY	RDWY
ELEVATION	EL OR ELEV	ROOM	RM
ELECTRICAL	ELEC	SCHEDULE	SCH
EQUIPMENT	EQUIP	SECOND	SEC
EQUAL	EQ	SECTION	SECT
EXHAUST FAN	EX	SHEET	SHT
EXISTING	EXIST	SIDEWALK	S/W
EXPANSION JOINT	EJ	SIMILAR	SIM
EXPOSED STRUCTURE	EXP STR	SOUTH	S
EXTERIOR	EXT	SOUTHEAST	SE
FEEDER	FDR	SOUTHWEST	SW
FEET	FT	SPECIFICATION	SPEC
FINISH FLOOR ELEVATION	FFE	SQUARE	SQ OR
FIRE EXTINGUISHER	FE	SQUARE FEET	SF
FLOOR	FL	STANDARD	STD
FLOOR DRAIN	FD	STAINLESS STEEL	SS
FOOT	FT	STEEL	STL
FOOTING	FTG	STIRRUP	STR
GALVANIZED	GALV	STREET	ST
GAS	G	SWITCH	SWT
GAS METER	GM	SYMMETRICAL	SYM
GLAZING	GLZ	TANGENT	TAN
GRADE	GR	TELEPHONE	TELE
GROUND	GND	TEMPORARY	TEMP
GROUND FAULT INTERRUPTER	GFI	THICKNESS	THK
GYPSUM BOARD	GYP BD	TOP AND BOTTOM	T/B
HEATER VENT	HV	TOP FACE	T/F
HEIGHT	HT	TOP OF CONCRETE	T/C
HIGH INTENSITY DISCHARGE	HID	TOP OF CURB	TC
HORIZONTAL	HORIZ	TOP OF SLAB	T/S
HEIGHT	HT	TOP OF STEEL	T/STL
INSIDE DIAMETER	ID	TYPICAL	TYP
INCH	IN	UNLESS NOTED OTHERWISE	UNO
INFORMATION	INFO	UNDERWRITERS LABORATORIES INC	UL
INSIDE DIAMETER	ID	VARIABLE	VAR
INVERT	INV	VENT THRU ROOF	VTR
IRON PIPE	IP	VERIFY IN FIELD	VIF
JOINT	JT	VERTICAL	VERT
JUNCTION BOX	JB	WATER LINE	WL
KIPS	K	WIDTH	W
KIPS PER SQUARE INCH	KSI	WITH	W/
KILOVOLT-AMPERES	KVA	WITHOUT	W/O
LIGHT	LT	WOOD	WD
LIGHTWEIGHT	LT WT		
LENGTH	L		

**GENERAL PROJECT NOTES**

1. GENERAL NOTES APPLY TO ALL DRAWINGS AND SPECIFICATIONS.
  2. ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE CODES AND LOCAL REGULATIONS.
  3. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND IMPLEMENT NECESSARY MEASURES TO ENSURE THE SAFETY OF ALL PERSONS ON SITE, VISITING THE SITE, WORKING ON THE SITE, AND THOSE MUNICIPAL EMPLOYEES REMAINING IN THE EXISTING ADMINISTRATION BUILDING PHASE II RENOVATIONS OF THE EXISTING ADMINISTRATION BUILDING.
  4. THE CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT WORK IN PROGRESS UNTIL PHASE II CONSTRUCTION IS COMPLETE.
  5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STATE AND LOCAL PERMITTING AND ASSOCIATED FEES. DO NOT OBSTRUCT STREETS, SIDEWALKS, OR OTHER RIGHT-OF-WAYS WITHOUT FIRST OBTAINING PROPER PERMITS AND NOTIFYING OWNER'S REPRESENTATIVE.
  6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SECURITY OF THE PORTION OF THE SITE CONTROLLED BY THIS CONTRACT, 24 HOURS PER DAY, WHILE THE JOB IS IN PROGRESS AND UNTIL THE PROJECT IS OFFICIALLY DECLARED SUBSTANTIALLY COMPLETE.
  7. ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF OFF SITE, IN COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.
  8. THE CONTRACTOR SHALL NOT DETERMINE THE SIZE OF CONSTRUCTION BY MEASURING WITH A SCALE OBJECTS REFERENCED IN THE DRAWINGS.
  9. THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING ANY WORK AND SHALL BE RESPONSIBLE FOR COORDINATION OF ALL DIMENSIONS, WORK, AND MATERIALS REQUIRED.
  10. THE CONTRACTOR SHALL REPORT TO THE ARCHITECT ANY ERROR, INCONSISTENCY, OR OMISSION DISCOVERED PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ITEM(S) OF CONSTRUCTION NOT CONFORMING TO THE CONSTRUCTION DOCUMENTS IF AT THE START OF CONSTRUCTION IF SUCH AN ITEM WAS NOT PREVIOUSLY BROUGHT TO THE ATTENTION OF THE ARCHITECT. THE MEANS OF CORRECTION SHALL FIRST BE REVIEWED & APPROVED BY THE ARCHITECT.
  11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING ABOVE & BELOW GROUND UTILITIES WITHIN CONTRACT LIMITS & PROTECT THEM FROM DAMAGE DURING THE COURSE OF THIS CONSTRUCTION. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF, AND RESPONSIBILITY FOR, REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGE CAUSED BY HIS OPERATIONS & SUBCONTRACTORS. UTILITIES DEACTIVATED OR ABANDONED IN PLACE BY THIS PROJECT SHALL BE CAPPED OR SEALED OFF IN ACCORDANCE WITH LOCAL REGULATIONS.
  12. THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING THE CONTRACTOR WITH ROUGH-IN INFORMATION NECESSARY TO ACCOMMODATE THE INSTALLATION OF ANY OWNER FURNISHED / INSTALLED OR OWNER FURNISHED / CONTRACTOR INSTALLED ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR THE SCHEDULING AND SEQUENCING OF THE INSTALLATION OF THESE ITEMS.
  13. CONDITIONS & ITEMS SHOWN IN SECTIONS & DETAILS APPLY TO ALL SIMILAR DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
  14. THE CONTRACTOR SHALL PROVIDE FOR OWNER/ARCHITECT REVIEW, STAGING PLAN & SECURITY FENCING PLAN FOR ALL MATERIAL STORED ON SITE, EQUIPMENT STORAGE AREA, PARKING AREA, PHASING AREAS AND OTHER AREAS DEFINED AS REQUIRED FOR THE CONTRACTOR'S EXCLUSIVE USE DURING CONSTRUCTION. THE CONTRACTOR MAY ERECT AND MAINTAIN AROUND THE PERIMETER SUITABLE FENCING, MARKING AND/OR WARNING DEVICES VISIBLE FOR DAY / NIGHT USE WITHIN CONTRACT LIMITS. DAMAGE TO EXISTING SURFACES OR FACILITIES WILL BE REPAIRED TO ORIGINAL STATE. REFER TO SPECIFICATIONS SECTION "TEMPORARY CONSTRUCTION FACILITIES". DESIGNATED PARKING FOR CONTRACTOR VEHICLES MUST BE INDICATED & SHALL BE AS APPROVED BY OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL AT CONSTRUCTION SITE AND SURROUNDING PUBLIC ROADWAYS. THE CONTRACTOR IS RESPONSIBLE FOR DAILY CLEAN UP OF ANY DEBRIS DEPOSITED IN THE CONSTRUCTION AREA & ALONG ANY ROUTE AS A RESULT OF THE CONSTRUCTION TRAFFIC.
  15. ALL WASTE, RUBBLE AND WASTE DEBRIS MATERIALS FROM THE CONSTRUCTION SITE AND BUILDINGS SHALL BE DISPOSED OF OFF THE PROPERTY BY THE CONTRACTOR IN ACCORDANCE WITH STATE AND LOCAL LAWS & REQUIREMENTS.
  16. THE CONTRACTOR & ALL SUBCONTRACTORS SHALL REFER TO & BECOME FAMILIAR WITH ALL CONSTRUCTION DRAWINGS & SPECIFICATIONS & BASE THEIR BIDS ON THE TOTALITY OF THE CONTRACT DOCUMENTS.
  17. AN INVENTORY OF ACOUSTICAL CEILING MATERIALS, CERAMIC FLOOR TILE, TOILET ACCESSORIES, TOILET FIXTURES, LABORATORY CASEWORK, WOOD DOORS AND ALUMINUM DOOR FRAMES EXISTS ON THE PROJECT AND IS CURRENTLY IN STORAGE. THIS INVENTORY IS NEW AND HAS BEEN PURCHASED BY THE OWNER UNDER A SEPARATE CONTRACT.
- A. COORDINATE THE REQUIREMENTS OF THIS SECTION WITH THE OWNER FOR PROVIDING ADDITIONAL ACOUSTICAL CEILING MATERIALS, CERAMIC FLOOR TILE, TOILET ACCESSORIES, TOILET FIXTURES, LABORATORY CASEWORK, WOOD DOORS AND ALUMINUM DOOR FRAMES TO COMPLETE THIS PROJECT. REFER TO SECTION 01020 - OWNER'S ALLOWANCE FOR REQUIREMENTS REGARDING PAYMENT OF ADDITIONAL MATERIALS REQUIRED TO COMPLETE THIS WORK.
  - B. ADDITIONAL ACOUSTICAL CEILING MATERIALS, CERAMIC FLOOR TILE, TOILET ACCESSORIES, TOILET FIXTURES, LABORATORY CASEWORK, WOOD DOORS AND ALUMINUM DOOR FRAMES USED TO COMPLETE THIS WORK, AS APPLICABLE, SHALL MATCH EXISTING INVENTORY IN MANUFACTURE, TYPE, STYLE AND COLOR.
  - C. INSTALLATION OF ALL ACOUSTICAL CEILING MATERIALS, CERAMIC FLOOR TILE, TOILET ACCESSORIES, TOILET FIXTURES, LABORATORY CASEWORK, WOOD DOORS AND ALUMINUM DOOR FRAMES IS INCLUDED UNDER THE WORK OF THIS SECTION WHETHER USING EXISTING INVENTORY OR NEWLY FURNISHED.

**SECURITY NOTES**

1. ACCESS TO SITE: CONTRACTOR MUST COORDINATE WITH OWNER FOR ACCESS REQUIREMENTS FOR ALL EMPLOYEES AND EQUIPMENT OF THE CONTRACTOR AND SUBCONTRACTORS.

**ACCESSIBILITY NOTES**

1. ALL OCCUPIABLE ROOMS AND SPACES IN THE RENOVATED AREAS ARE PLANNED TO BE ACCESSIBLE TO PERSONS WITH DISABILITIES. SINKS SHALL HAVE PIPE PROTECTION.

**WALL AND PARTITION NOTES**

THE CONTRACTOR SHALL FURNISH AND INSTALL WOOD BLOCKING IN STUD PARTITIONS FOR ANCHORAGE OF WALL ATTACHED ITEMS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING; GRAB BARS, VANITY UNITS, TOILET ACCESSORIES, HANDRAIL BRACKETS, WALL CABINETS, WALL MOUNTED FIXTURES, ETC.

**REFLECTED CEILING PLAN NOTES**

1. ALL RECESSED LIGHTS AND SMOKE OR THERMAL DETECTORS SHALL BE CENTERED IN ACOUSTICAL TILE UNLESS NOTED OTHERWISE.
2. CEILING HEIGHTS ARE AS NOTED IN THE ROOM FINISH SCHEDULE UNLESS DETAILED OTHERWISE.

**MILLWORK NOTES**

1. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
2. BASE CABINETS TO BE 24' DEEP, WALL CABINETS TO BE 12" DEEP UNLESS NOTED OTHERWISE.
3. CLOSURE PANELS AND NAILERS TO BE PROVIDED BY MILLWORK MANUFACTURER.
4. BACK SPLASHES TO BE 4" HIGH WITH RETURNS ALONG ALL ADJACENT WALLS AS REQUIRED.
5. PROVIDE APPLIED BASE AT ALL MILLWORK UNITS.

**FINISH NOTES**

WHERE FLOOR FINISH CHANGES, SET JOINT UNDER THE CENTER OF DOOR.

**EQUIPMENT / FURNISHINGS / SPECIALTIES NOTES**

1. PROVIDE NEW FIRE EXTINGUISHERS AND BRACKETS OR CABINETS AT LOCATIONS SHOWN ON PLAN.

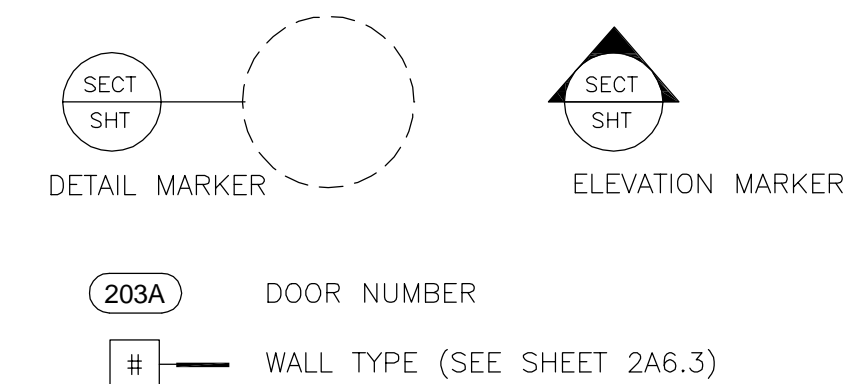
**DIMENSION NOTES**

1. DIMENSIONS FOR DOOR OPENINGS ARE SHOWN NOMINAL. OPENING SHALL ALLOW FOR 1/4" SHIMMING AND SEALANT BEAD AROUND FRAMES.
2. ALL DIMENSIONS ARE ACTUAL AND ARE TO FACE OF METAL STUD OR FACE OF MASONRY WALLS, UNLESS NOTED OTHERWISE.

**ASBESTOS NOTE**

THE CONTRACTOR IS HEREBY NOTIFIED THAT THE BUILDING CONTAINS ASBESTOS; VINYL FLOOR TILE & MASTIC. THE CONTRACTOR SHALL REMOVE THE TILE & MASTIC IN ACCORDANCE WITH THE SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE WORKERS & PUBLIC IN ACCORDANCE WITH 29 CFR 1910.1001 ASBESTOS.

**SYMBOLS LEGEND**



R E V I S I O N S	DESCRIPTION			
	ISSUED FOR BIDDING	12/8 2008		
DATE	BY			

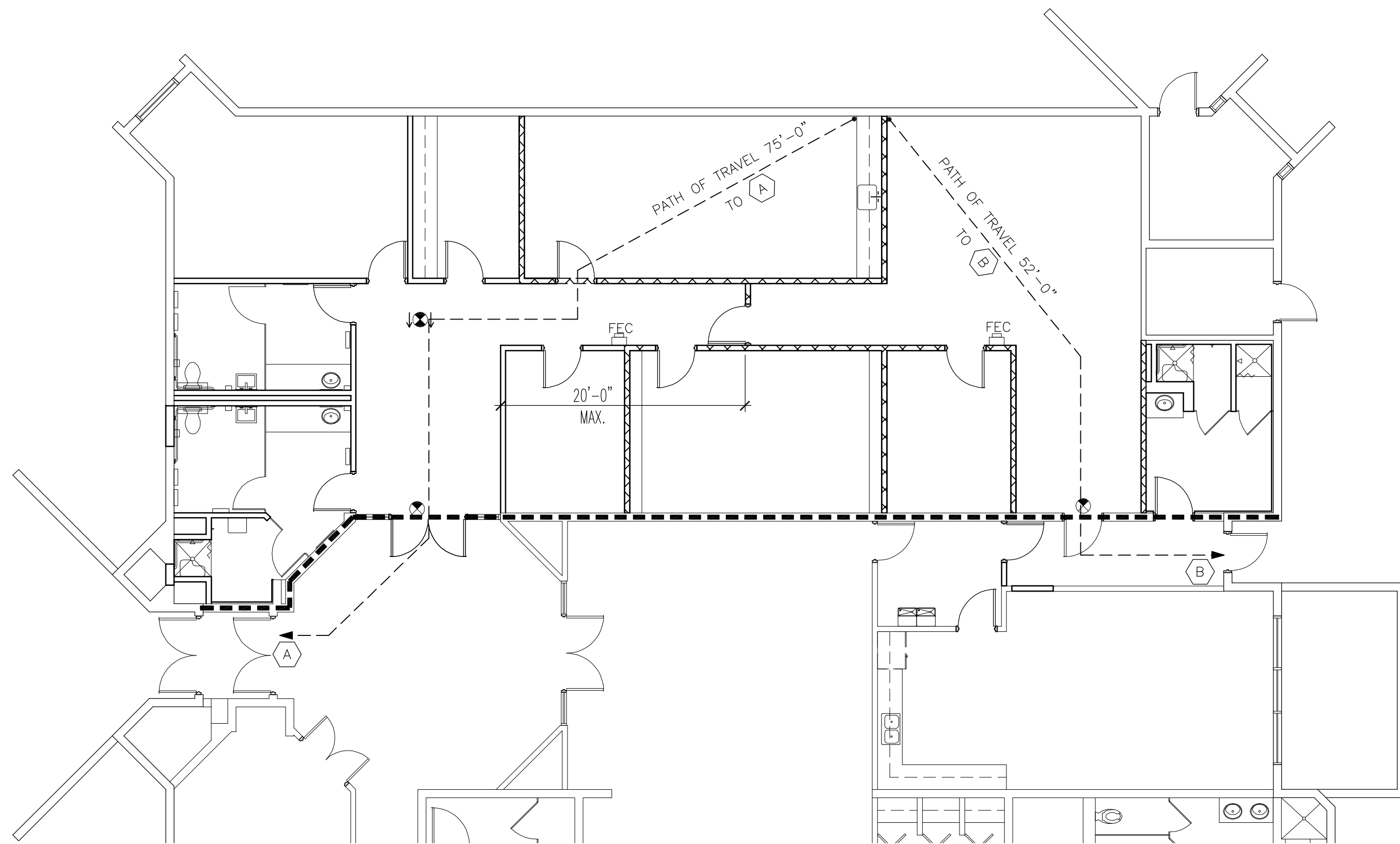
URS Corporation Southern  
 7650 West Courtney  
 Campbell Causeway  
 Tampa, FL 33607-1462  
 No. 00000002  
 Terrance J. Short AR No. 92283  
 DSGN. BY: DR.BY: CK.BY: APPR'D BY:

SCALE:	DATE:
	NOVEMBER 2008

**MANATEE COUNTY S. W. R. W. T. P.**  
**ADMINISTRATION BUILDING RENOVATIONS**  
**ABBREVIATIONS, GENERAL NOTES & SYMBOLS**

SHEET NO.
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**2G1.0**



1 LIFE SAFETY PLAN  
2A0.1 SCALE: 1/8" = 1'-0"

### CODE ANALYSIS

#### APPLICABLE CODES

- 2004 FLORIDA BUILDING CODE (FBC) WITH 2006 AMMENDMENTS
- AMERICANS WITH DISABILITIES ACT (FBC - CHAPTER 11)
- 2004 FLORIDA MECHANICAL CODE
- 2004 FLORIDA PLUMBING CODE
- 2004 FLORIDA ELECTRICAL CODE
- 2003 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

#### OCCUPANCY CLASSIFICATION

GROUP B - BUSINESS

#### FBC Reference Section

SECTION: 304.1

#### TYPE OF CONSTRUCTION

EXISTING BUILDING: TYPE II B

SECTION: 603

#### ALLOWABLE BUILDING AREA & HEIGHT

ALLOWABLE AREA: 23,000 SQ. FT. ACTUAL AREA: 7,800 SQ. FT. (APPROX.)

TABLE 503

ALLOWABLE HEIGHT: 4 STORIES ACTUAL HEIGHT: 1 STORY

TABLE 500

#### FIRE RESISTANCE REQUIREMENTS FOR BUILDING ELEMENTS

TABLE 601

EXTERIOR BEARING WALLS	0
EXTERIOR NONBEARING WALLS	0
INTERIOR BEARING WALLS	0
INTERIOR NONBEARING WALLS	0
COLUMNS	0
TRUSSES, GIRDERS AND BEAMS	0
FLOOR ASSEMBLIES	0
ROOF ASSEMBLIES	0

#### MEANS OF EGRESS

OCCUPANCY	TABLE 1004.1.2 FLOOR AREA IN SQ. FT. PER OCCUPANT	AREA OF RENOVATION	OCCUPANT LOAD	SECTION 1004 NUMBER OF EXITS REQUIRED	NUMBER OF EXITS PROVIDED
BUSINESS	100 GROSS	3,606	37	2	2

#### EGRESS WIDTH

AREA	OCCUPANT LOAD	EGRESS WIDTH REQUIRED PER PERSON	EXIT WIDTH AS INCHES	
			Required per exit	Provided total all
BUILDING	37	0.2 INCHES @ DOORS	7.4	108

#### ACCESSIBLE MEANS OF EGRESS

NUMBER REQUIRED = 1 (FBC TABLE 1014.1)

NUMBER PROVIDED = 2

DEAD END (FBC 1016.3)

MAXIMUM PERMITTED PROVIDED 20'

PATH OF TRAVEL TO EXIT (FBC 1013.3)

MAXIMUM PERMITTED PROVIDED 75'

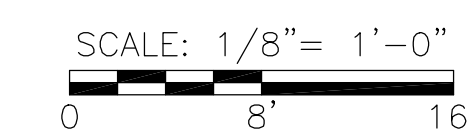
#### MINIMUM PLUMBING REQUIREMENTS

TOTAL OCCUPANT LOAD AS STIPULATED BY CODE: 37 PERSONS  
ASSUME 50% MALE AND 50% FEMALE

PLUMBING FIXTURE TYPE	REQUIRED	PROVIDED
WATER CLOSET (M)	1	1
WATER CLOSET (F)	1	1
LAVATORY (M)	1	2
LAVATORY (F)	1	2



GRAPHIC SCALE



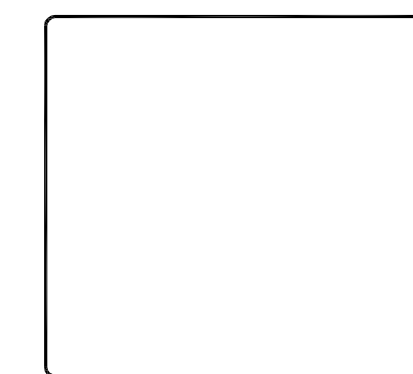
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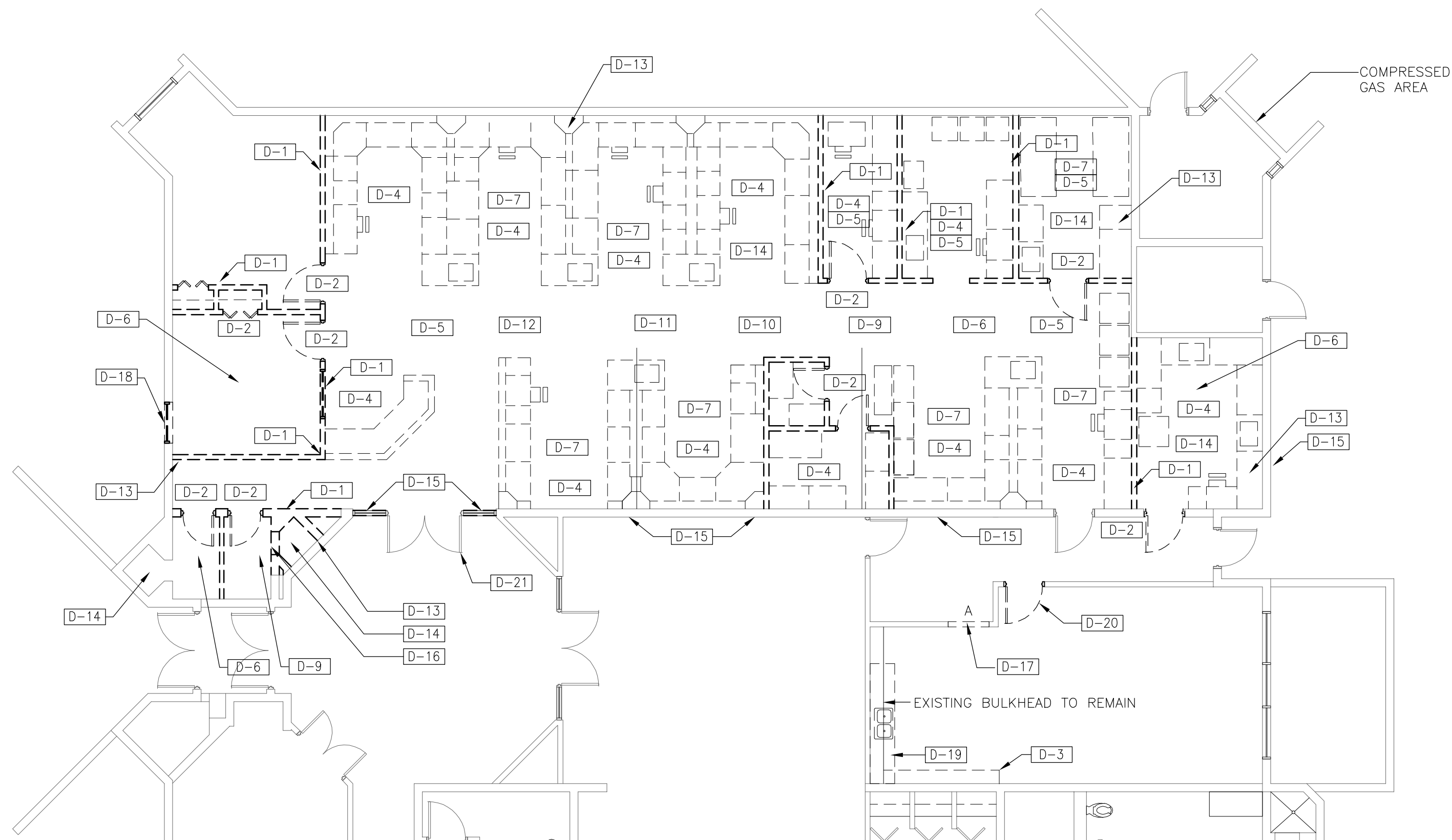
CK-BY: DR-BY: APPR'D BY:

SCALE: AS NOTED DATE: NOVEMBER 2008

MANATEE COUNTY S. W. R. W. T. P.  
ADMINISTRATION BUILDING RENOVATIONS  
CODE ANALYSIS & LIFE SAFETY PLAN



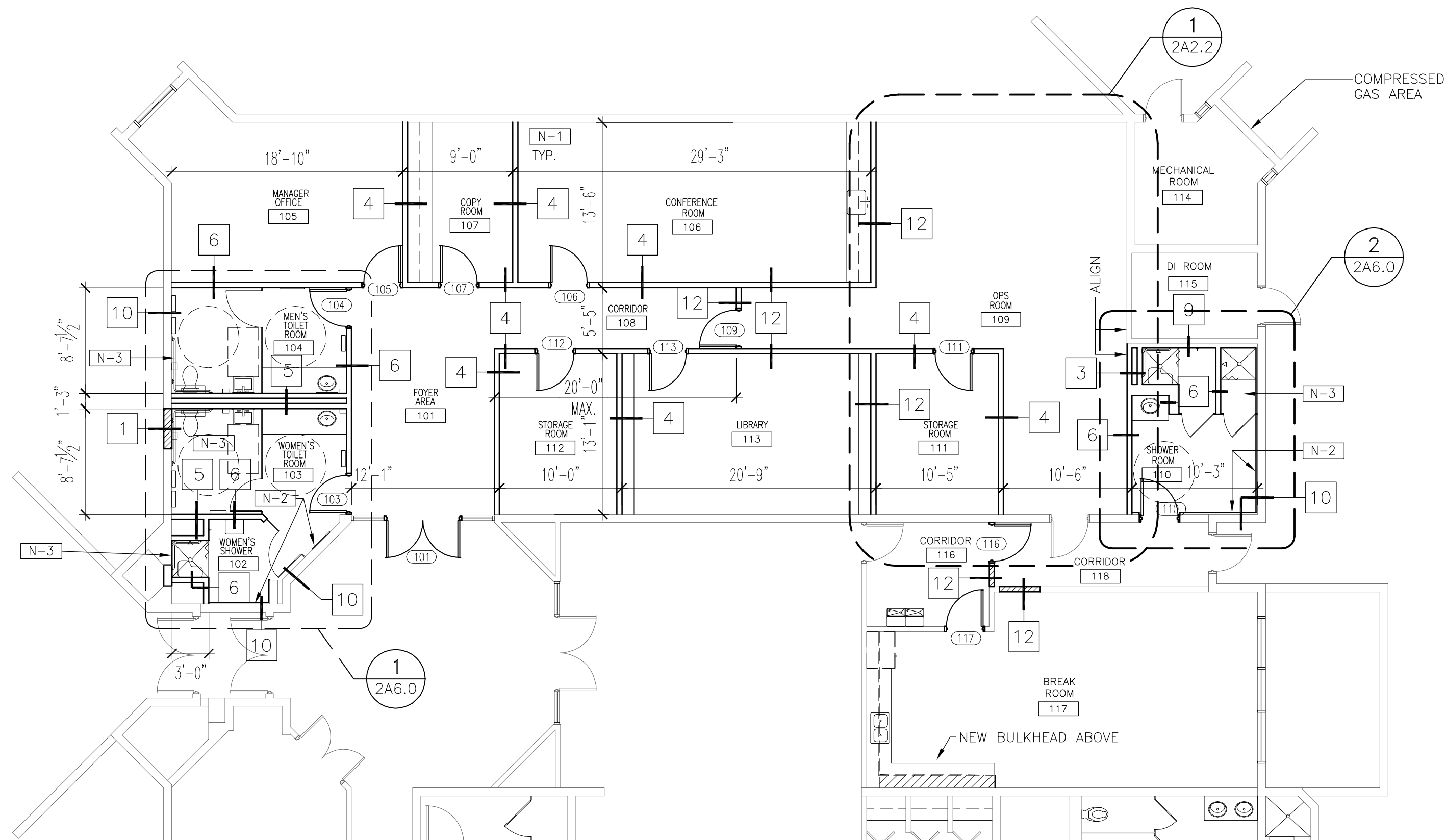
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2A0.1



**2 DEMOLITION PLAN**  
2A2.0 SCALE: 1/8" = 1'-0"

**GENERAL DEMOLITION NOTES:**

1. THE CONTRACTOR SHALL VISIT THE DEMOLITION PROJECT AREA, BECOME FAMILIAR WITH THE SCOPE AND EXTENT OF ALL WORK, INCLUDING WORK ABOVE THE ACOUSTICAL CEILINGS AND ON THE ROOF TOP, PRIOR TO SUBMITTING THEIR BIDS SO AS TO INCLUDE THE COST FOR THE ENTIRE SCOPE OF WORK IN THE BID PROPOSAL. CONTRACTOR WILL CONTINUE DEMOLITION TO THE OWNER'S SATISFACTION INCLUDING ALL ITEMS SHOWN AND THOSE DISCOVERED AT NO ADDITIONAL COST TO OWNER.
2. ALL EXISTING EQUIPMENT, HOODS, FANS AND LIGHTS SHALL BE TURNED OVER TO THE OWNER. ALL OTHER DEMOLITION ITEMS SHALL BE DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING ALL ITEMS NOT SCHEDULED TO BE REMOVED.
3. EXISTING FLOOR TILES AND FLOOR DRAINS ARE TO BE REMOVED, INSTALL PLUG ON FLOOR DRAINS BELOW FINISH FLOOR. FLOOR IS TO BE LEFT IN LEVEL CONDITION AND PREPARED FOR NEW FLOOR INSTALLATION.



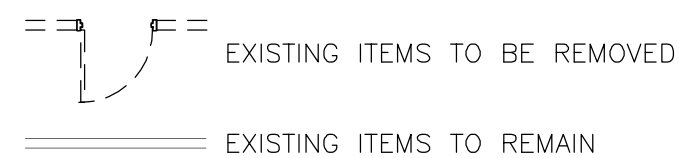
**1 FLOOR PLAN**  
2A2.0 SCALE: 1/8" = 1'-0"

NOTE: FOR WALL TYPE INFORMATION ( — X ), REFER TO SHEET 2A6.3.  
FOR MILLWORK ITEMS, REFER TO SHEET 2A2.1.

**DEMOLITION KEY NOTES**

- D-1 REMOVE EXISTING WALLS, INCLUDING ALL GLASS, VIEW PANELS, SWITCHES, WIRING CONDUIT, ETC. FROM FLOOR TO ROOF ABOVE, TYP.
- D-2 REMOVE EXISTING FRAME, DOOR AND HARDWARE. PROTECT AND STORE FOR REFINISHING AND RE-INSTALLATION. SEE GENERAL NOTES FOR MATERIALS WHICH ALREADY REMOVED AND PURCHASED BY OWNER.
- D-3 REMOVE PORTION OF CEILING TO ALLOW CONSTRUCTION OF NEW BULKHEAD.
- D-4 REMOVE ALL EXISTING LAB CASEWORK.
- D-5 REMOVE EXISTING MECH. GRILLES, CEILING SYSTEM LIGHTS, ETC. COORDINATE WITH MECH. PLANS FOR DUCTS TO REMAIN AND BE REUSED.
- D-6 SAWCUT EXISTING CONCRETE SLAB IN THIS AREA AS REQUIRED TO INSTALL NEW PLUMBING LINES. (REFER TO PLUMBING PLANS FOR EXTENT OF DEMOLITION REQUIRED FOR NEW BELOW SLAB PIPING). PATCH AND REPAIR CONCRETE FLOOR AFTER PIPE LINES HAVE BEEN INSTALLED.
- D-7 REMOVE EXISTING HOODS (U.N.O.) AND ASSOCIATED EXHAUST FANS ON ROOF AND ASSOCIATED WIRING BACK TO ELECTRIC PANEL. TURN EQUIP. OVER TO THE OWNER. CAP ALL ROOF TOP OPENINGS/CURBS WHERE EQUIP. IS REMOVED WITH GALVANIZED SHEET MTL. FLASHING AND SEALANTS FOR WATER TIGHT SEALS. REFER TO THE MECHANICAL PLANS IN ORDER TO SEE AND COORDINATE MECHANICAL EQUIPMENT TO REMAIN.
- D-8 NOT USED
- D-9 REMOVE EXISTING PLUMBING FIXTURES, EQUIPMENT, ETC.
- D-10 CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL ITEMS NOT SALVAGED (SPECIFICALLY NOTED TO BE TURNED OVER TO OWNER OR REUSED).
- D-11 REMOVE EXISTING ABANDONED ROOF VENT. PATCH AND REPAIR ROOF AS REQUIRED TO CREATE WATER-TIGHT CONDITION. SEE MECH PLANS FOR LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS AND WATERPROOFING AT ROOF AND WILL PROVIDE INSPECTION REPORT AND CERTIFICATION FOR AFTER REPAIR CONDITIONS.
- D-12 REMOVE ALL EXISTING CEILING FANS.
- D-13 PATCH AND REPAIR ALL EXISTING FINISHES ON THE INTERIOR FACE OF EXTERIOR WALLS THAT ARE DAMAGED AS A RESULT OF THE DEMOLITION. REPAIR THE DAMAGED INSULATION AND PROVIDE UNINTERRUPTED INSULATION AT EXTERIOR WALLS.
- D-14 REMOVE AND RELOCATE EXISTING PIPES. REFER TO THE PLUMBING PLANS FOR THE EXTENT OF RENOVATION PIPES TO BE REMOVED AND/OR RELOCATED. FILL, PATCH AND REPAIR THE RECESSED AREA OF THE SLAB AFTER REMOVING THE EXISTING PIPES AND PREPARE SLAB AND WALLS TO RECEIVE CERAMIC TILE APPLICATION.
- D-15 PROVIDE DUST BARRIERS AT ALL INTERFACES BETWEEN RENOVATION AREA AND ADJACENT AREAS TO REMAIN.
- D-16 EXISTING MARBLE THRESHOLDS AT SHOWER ROOM TO BE REMOVED AND TURNED OVER TO THE OWNER.
- D-17 REMOVE PORTION OF EXISTING WALL FOR NEW DOOR.
- D-18 REMOVE WINDOW AND FRAME.
- D-19 REMOVE EXISTING MILLWORK, SINK AND PLUMBING TO ALLOW FOR INSTALLATION OF NEW MILLWORK, SINK AND PLUMBING.
- D-20 RELOCATE EXISTING DOOR AND FRAME TO LOCATION "A".
- D-21 EXISTING DOOR, FRAME AND SIDE LITES TO REMAIN. PROTECT DURING CONSTRUCTION.

**DEMOLITION SYMBOLS**

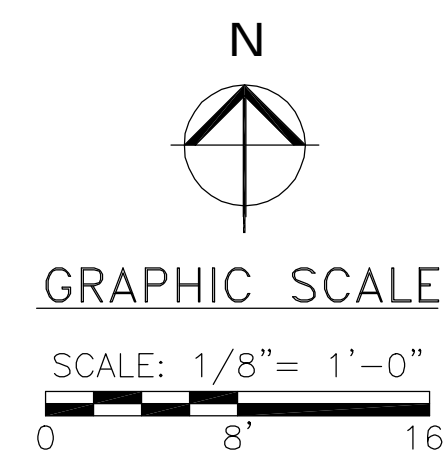


**RENOVATION SYMBOLS**



**RENOVATION KEY NOTES**

- N-1 NEW WALL CONSTRUCTION FINISHES SHALL ALIGN & MATCH EXISTING ADJACENT FINISHES.
- N-2 PROVIDE MOISTURE RESISTANT GYPSUM BOARD WALL OVER GALV. METAL FURRING ALONG THIS WALL.
- N-3 PROVIDE NECESSARY SOLID BLOCKING FOR GRAB BARS AND OTHER ACCESSORIES AT TOILETS AND SHOWER ROOMS.



REVISIONS	
DATE	DESCRIPTION
12/8/2008	ISSUED FOR BIDDING

URS Corporation  
7650 West Courtney  
Campbell Causeway  
Tampa, FL 33607-1462  
No. 0000002  
Terrence J. Short AR No. 92283

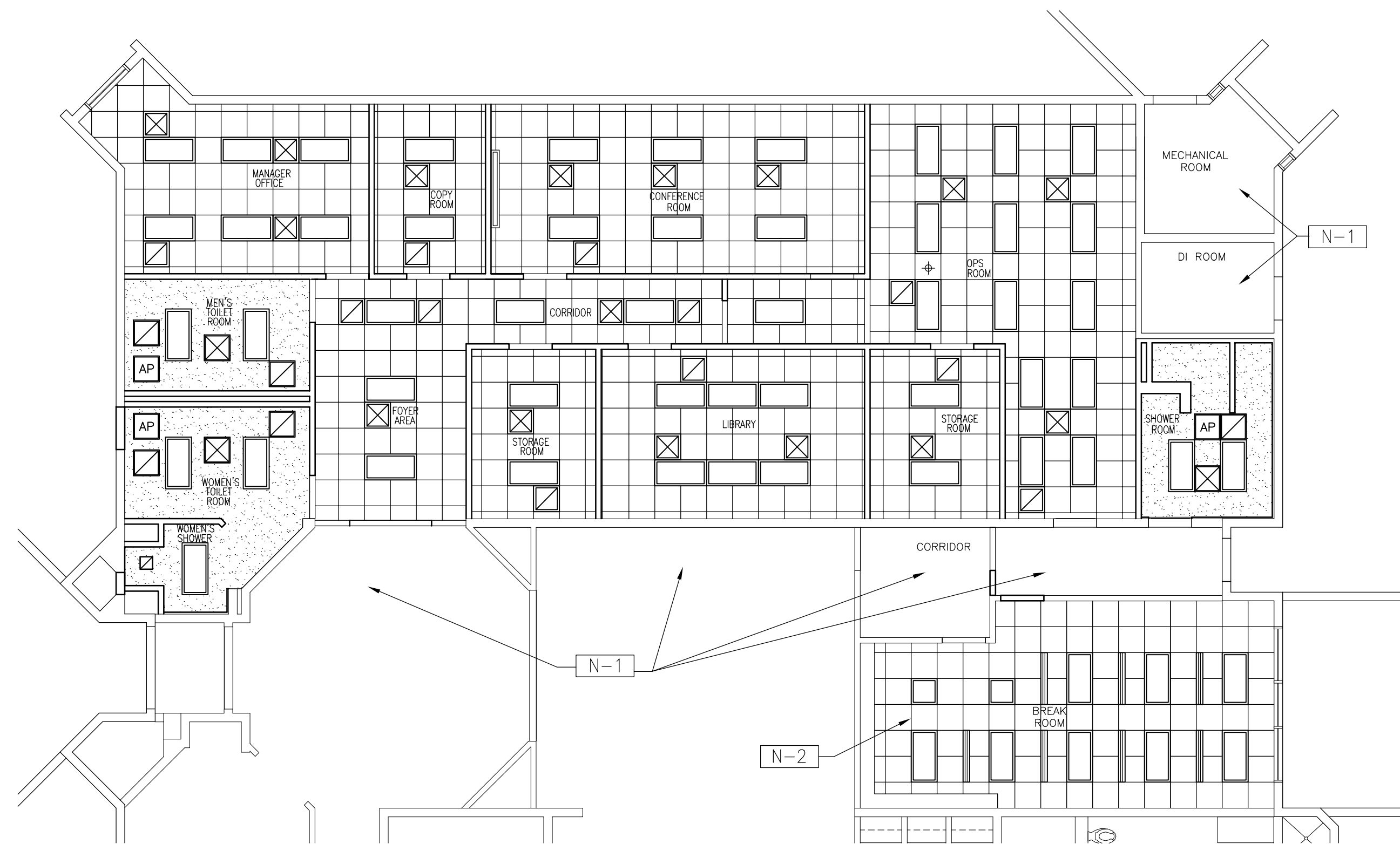
DR: BT  
CK: BT  
APPR: D: BT

SCALE: AS NOTED	DATE: NOVEMBER 2008
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**MANATEE COUNTY S. W. R. W. T. P.**  
**ADMINISTRATION BUILDING RENOVATIONS**

**DEMOLITION PLAN & FLOOR PLAN**

SHEET NO.	2A2.0
-----------	-------



REFLECTED CEILING SYMBOLS

- CEILING MOUNTED EMERGENCY SHOWER - REFER TO PLUMBING PLANS
- NEW SUPPLY AIR DIFFUSER
- NEW RETURN AIR GRILLE
- EXHAUST FAN - SEE MECHANICAL DRAWINGS
- NEW 2'x2' LAY-IN ACOUSTICAL TILE WITH PREFINISHED METAL SUSPENSION GRID
- 2'x4' RECESSED FLUORESCENT FIXTURE
- 6'-0" MOTORIZED PROJECTION SCREEN COORDINATE LOCATION WITH OWNER
- THIN COAT PLASTER ON 5/8" MOISTURE RESISTANT GYPSUM BOARD ON SUSPENDED GRID SYSTEM. ANCHOR GRID SUSPENSION TO THE EXISTING ROOF DECK ABOVE
- NEW 2'x2' ACCESS PANEL. COORDINATE LOCATION WITH MECHANICAL EQUIPMENT

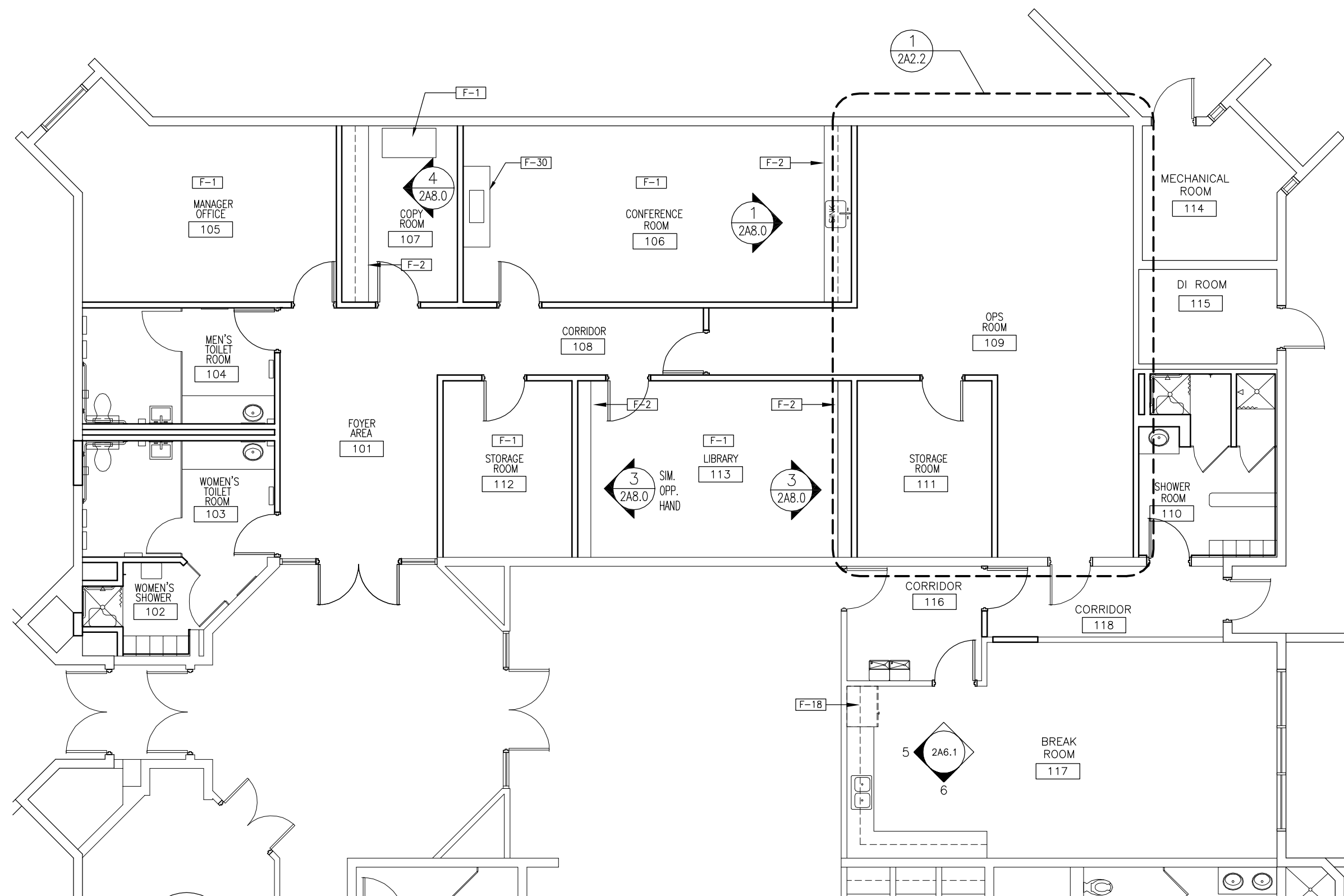
REFLECTED CEILING KEY NOTES

- N-1** EXISTING CEILING SYSTEM TO REMAIN.
- N-2** EXISTING 2'x4' GRID TO REMAIN. CLEAN GRID AFTER REMOVAL/DISPOSAL OF EXISTING TILES. INSTALL ADDITIONAL MATCH GRID MEMBERS TO SUPPORT NEW 2'x2' CEILING TILES. INSTALL NEW MOISTURE RESISTANT (WASHABLE) ACOUSTICAL CEILING TILES IN EXISTING GRID. EXISTING LIGHTS AND HVAC TO REMAIN.

**2** REFLECTED CEILING PLAN  
2A2.1 SCALE: 1/8" = 1'-0"

FURNITURE & EQUIPMENT NOTES

1. PLANS INDICATE BOTH OWNER PROVIDED AND CONTRACTOR PROVIDED FURNISHINGS AND EQUIPMENT. CONTRACTOR TO COORDINATE MECHANICAL AND ELECTRICAL STUB-OUTS WITH OWNER'S FURNISHINGS AND EQUIPMENT SUPPLIERS.
2. COMPUTERS, FAX MACHINES, PRINTERS AND COPIERS SHALL BE PROVIDED AND INSTALLED BY THE OWNER.
3. REFER TO PLUMBING PLANS, MECHANICAL PLANS AND ELECTRICAL PLANS FOR ADDITIONAL EQUIPMENT AND FIXTURE REQUIREMENTS.
4. NOT USED
5. THE BASIS OF DESIGN FOR ALL LABORATORY CASEWORK, COUNTERTOPS, HOODS, EQUIPMENT, AND ACCESSORIES SHALL BE BY KEWAUNEE CORPORATION.
6. PROVIDE FILLER PANELS (F.P.) WHERE REQUIRED FOR COMPLETE INSTALLATION.
7. REFER TO THE FINISH SCHEDULE AND NOTES FOR FINISH INSTALLATION REQUIREMENTS PRIOR TO INSTALLING LABORATORY CASEWORK AND EQUIPMENT.
8. VERIFY IN THE FIELD ALL WALL DIMENSIONS AND EQUIPMENT SIZES PRIOR TO ORDERING AND INSTALLING LAB CASEWORK AND COUNTERTOPS AND BEFORE FABRICATING MILLWORK ITEMS.
9. CONTRACTOR SHALL INSTALL CERAMIC TILE ON ALL LAB ROOM WALLS FROM FLOOR TO CEILING. THEN INSTALL CHEMICAL RESISTANT SHEET FLOORING PRIOR TO THE FURNITURE AND EQUIPMENT INSTALLATION. REFER TO THE FINISH SCHEDULE AND REQUIREMENTS.
10. FOR TYPICAL WALL FINISH ELEVATION IN THE OPS ROOM SEE DETAIL 2 ON SHEET 2A8.0.



**1** FURNITURE & EQUIPMENT PLAN  
2A2.1 SCALE: 1/8" = 1'-0"

NOTE: REFER TO THE ELEVATION SYMBOLS SHOWN ABOVE FOR ADDITIONAL CONTRACTOR PROVIDED CASEWORK, FURNITURE AND EQUIPMENT.

FURNITURE AND EQUIPMENT SCHEDULE

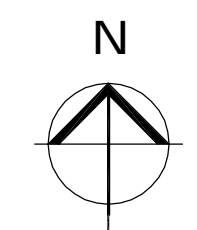
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F-1	OFFICE FURNITURE & EQUIPMENT	OPOI	
F-2	MILLWORK	CPCI	1
F-8	MOLDED EPOXY RESIN COUNTER	CPCI	*5
F-9	RESIN BACK SPLASH W/8" CURB	CPCI	*
F-10	MOLDED EPOXY SINK	CPCI	7
F-11	RACK W/ TROUGH AND HOSE	CPCI	6, 9
F-12	D.I. POLISHER	CPCI	
F-13	CEILING SHOWER W/ FL DRAIN	CPCI	
F-18	36" WIDE REFRIGERATOR	OPOI	
F-30	TV, VCR,DVD W/CABINET	OPOI	
F-31	48" WIDE SS COMMERCIAL REFRIG	CPCI	
LABORATORY CASEWORK (SEE NOTE 8)			
A-#	"A" SERIES CASEWORK	CPCI	
B-#	"B" SERIES CASEWORK	CPCI	
C-#	"C" SERIES CASEWORK	CPCI	
D-#	"D" SERIES CASEWORK	CPCI	
E-#	"E" SERIES CASEWORK	CPCI	
G-1	FILLER PANELS FOR CABINETS	CPCI	AS REQ'D
G-2	MARINE EDGE COUNTERTOPS	CPCI	
G-3	4'-0" FUME HOOD	CPCI	4
H-1	REAGENT RACK & SHELVING SYS	CPCI	9

DEFINITION OF ABBREVIATIONS:  
CPCI = CONTRACTOR PROVIDED, CONTRACTOR INSTALLED  
OPOI = OWNER PROVIDED, CONTRACTOR INSTALLED  
OPOI = OWNER PROVIDED, OWNER INSTALLED  
CPOI = CONTRACTOR PROVIDED, OWNER INSTALLED

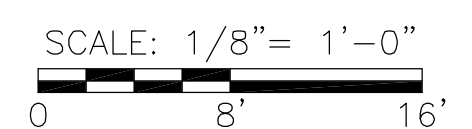
NOTE: FURNITURE & EQUIPMENT SCHEDULE, NOTES, AND REMARKS APPLY TO DRAWING SHEETS 2A2.1 & 2A2.2

FURNITURE AND EQUIPMENT REMARKS

1. REFER TO MILLWORK ELEVATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO PLUMBING PLANS FOR ADDITIONAL REQUIREMENTS.
3. REFER TO MECH/ELEC/PLUMB PLANS FOR CONTRACTOR PROVIDE INSTALLATION NECESSARY FOR THE OPERATION OF OWNER INSTALLED EQUIPMENT.
4. REFER TO MECH/ELEC/PLUMB PLANS FOR FUME HOOD REUSE & REINSTALLATION REQUIREMENTS.
5. PROVIDE STEEL APRON RAILS AND PANELS FOR PRIVACY AT ALL KNEE SPACE WORK SURFACES OPEN BELOW COUNTER TOPS, TYP.
6. COMPOSITE RESIN LAB "PEGBORD" RACK 20" LONG x 29" HIGH WITH S.S. DRIP TROUGH WITH 1/2" DRAIN OUTLET AND HOSE.
7. REFER TO PLUMBING PLANS.
8. REFER TO 2 ON SHEET 2A2.2 FOR TYPICAL LAB CASEWORK SERIES TYPE ELEVATIONS "A", "B", "C", "D", "E", "G" AND "H".
9. PROVIDE REAGENT RACK WITH 24" HIGH UPRIGHTS AS REQUIRED WITH INTERMEDIATE EPOXY SHELF AND TOP SHELF. PROVIDE 4" EPOXY BASE FOR REAGENT RACK WITH HOSE TO SINK.



GRAPHIC SCALE



REVISIONS	
DESCRIPTION	DATE
ISSUED FOR BIDDING	12/8 2008

URS Corporation Southern  
7650 West Courtney  
Campbell Causeway  
Tampa, FL 33607-1462  
No. 0000002  
Terrance J. Short AR No. 92283

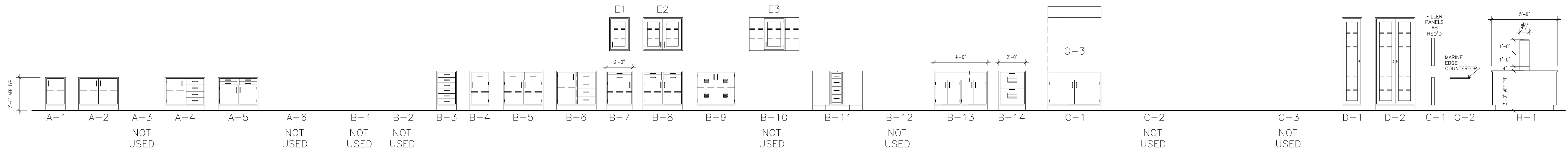
APPROVED BY: [Signature]  
DATE: [Date]

SCALE:	AS NOTED
DATE:	NOVEMBER 2008

MANATEE COUNTY S. W. R. W. T. P.  
ADMINISTRATION BUILDING RENOVATIONS  
REFLECTED CEILING PLAN AND  
FURNITURE & EQUIPMENT PLAN

SHEET NO.
-----------

2A2.1



**2 TYPICAL LAB CASEWORK ELEVATIONS**  
2A2.2 SCALE: 1/4" = 1'-0"

**FURNITURE & EQUIPMENT NOTES**

- PLANS INDICATE BOTH OWNER PROVIDED AND CONTRACTOR PROVIDED FURNISHINGS AND EQUIPMENT. CONTRACTOR TO COORDINATE MECHANICAL AND ELECTRICAL STUB-OUTS WITH OWNER'S FURNISHINGS AND EQUIPMENT SUPPLIERS.
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- NOT USED
- THE BASIS OF DESIGN FOR ALL LABORATORY CASEWORK, COUNTERTOPS, HOODS, EQUIPMENT, AND ACCESSORIES SHALL BE BY KEWAUNEE CORPORATION.
- PROVIDE FILLER PANELS (F.P.) WHERE REQUIRED FOR COMPLETE INSTALLATION.
- REFER TO THE FINISH SCHEDULE AND NOTES FOR FINISH INSTALLATION REQUIREMENTS PRIOR TO INSTALLING LABORATORY CASEWORK AND EQUIPMENT.
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- CONTRACTOR SHALL INSTALL CERAMIC TILE ON ALL LAB ROOM WALLS FROM FLOOR TO CEILING. THEN INSTALL CHEMICAL RESISTANT SHEET FLOORING PRIOR TO THE FURNITURE AND EQUIPMENT INSTALLATION. REFER TO THE FINISH SCHEDULE AND REQUIREMENTS.
- FOR TYPICAL WALL FINISH ELEVATION IN THE OPS ROOM SEE DETAIL 2 ON SHEET 2A8.0.

**FURNITURE AND EQUIPMENT SCHEDULE**

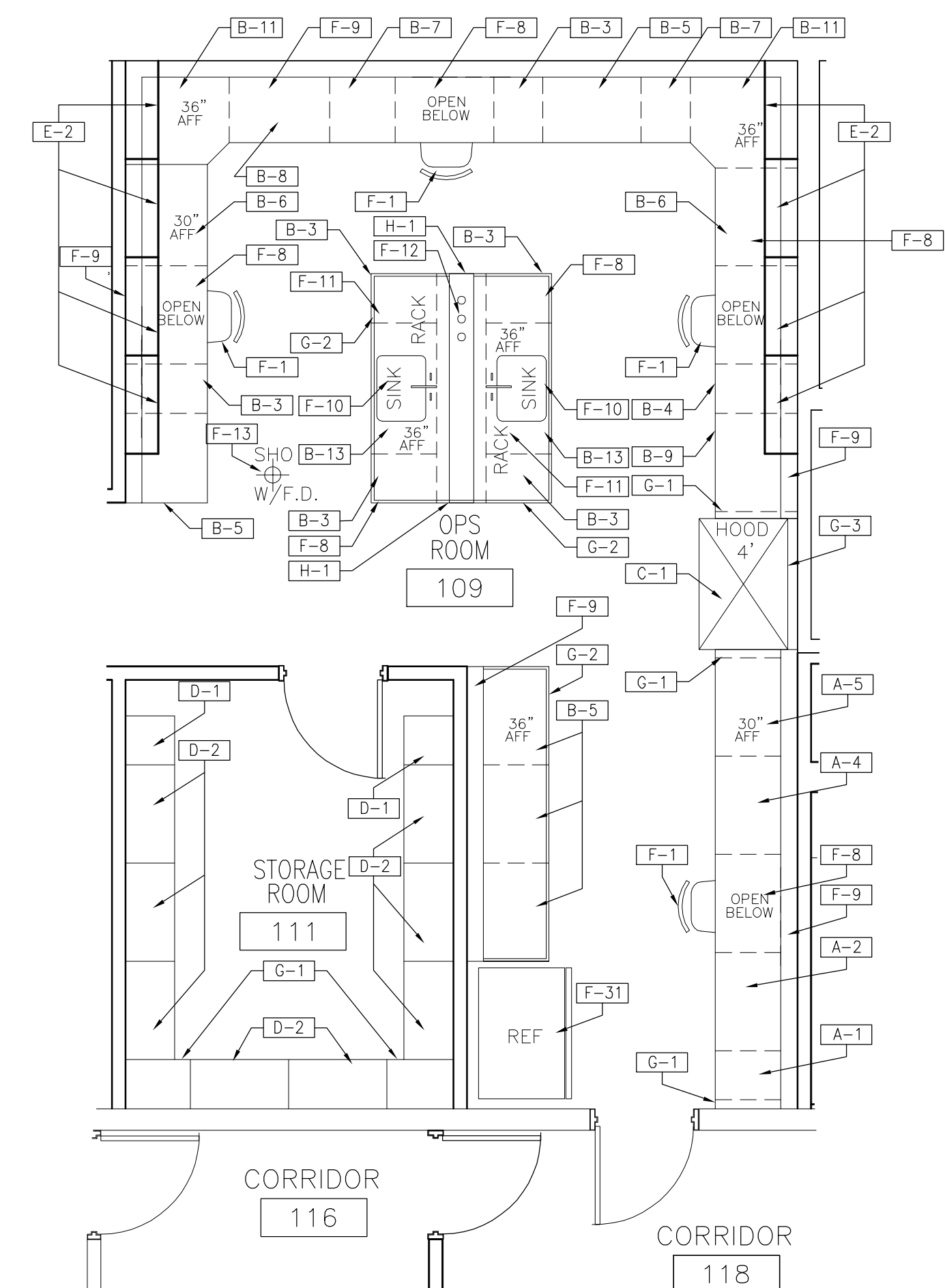
ID NO.	FURNITURE & EQUIPMENT	SOURCE	REMARKS
F-1	OFFICE FURNITURE & EQUIPMENT	OPOI	
F-2	MILLWORK	CPCI	1
F-8	MOLDED EPOXY RESIN COUNTER	CPCI	*5
F-9	RESIN BACK SPLASH W/8" CURB	CPCI	*
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F-11	RACK W/ TROUGH AND HOSE	CPCI	6, 9
F-12	D.I. POLISHER	CPCI	
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F-18	36" WIDE REFRIGERATOR	OPOI	
F-30	TV, VCR,DVD W/CABINET	OPOI	
F-31	48" WIDE SS COMMERCIAL REFRIG	CPCI	
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A-#	"A" SERIES CASEWORK	CPCI	
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NOTE: FURNITURE & EQUIPMENT SCHEDULE, NOTES, AND REMARKS APPLY TO DRAWING SHEETS 2A2.1 & 2A2.2

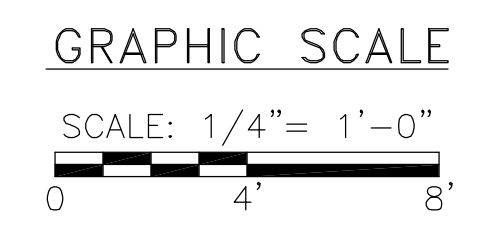
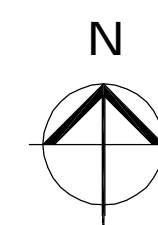
**FURNITURE AND EQUIPMENT REMARKS**

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- REFER TO PLUMBING PLANS FOR ADDITIONAL REQUIREMENTS.
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- COMPOSITE RESIN LAB "PEGBOARD" RACK 20" LONG x 29" HIGH WITH S.S. DRIP TROUGH WITH 1/2" DRAIN OUTLET AND HOSE.
- REFER TO PLUMBING PLANS.
- REFER TO 2 ON SHEET 2A2.2 FOR TYPICAL LAB CASEWORK SERIES TYPE ELEVATIONS "A","B","C","D","E","G" AND "H".
- PROVIDE REAGENT RACK WITH 24" HIGH UPRIGHTS AS REQUIRED WITH INTERMEDIATE EPOXY SHELF AND TOP SHELF. PROVIDE 4" EPOXY BASE FOR REAGENT RACK WITH HOSE TO SINK.



**1 OPS ROOM AND STORAGE ROOM EQUIPMENT PLAN**  
2A2.2 SCALE: 1/4" = 1'-0"

NOTE: FOR FURNITURE AND EQUIPMENT SCHEDULE, SEE 2/2A2.1



REVISIONS	
DATE	DESCRIPTION
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Campa, FL 33607-1462  
No. 0000002  
Terrance J. Short AR No. 92283

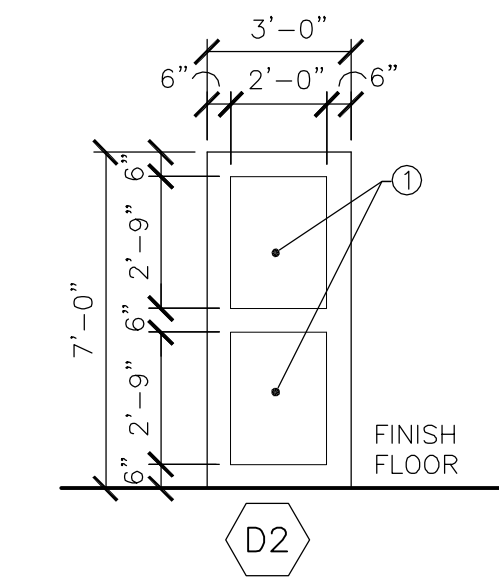
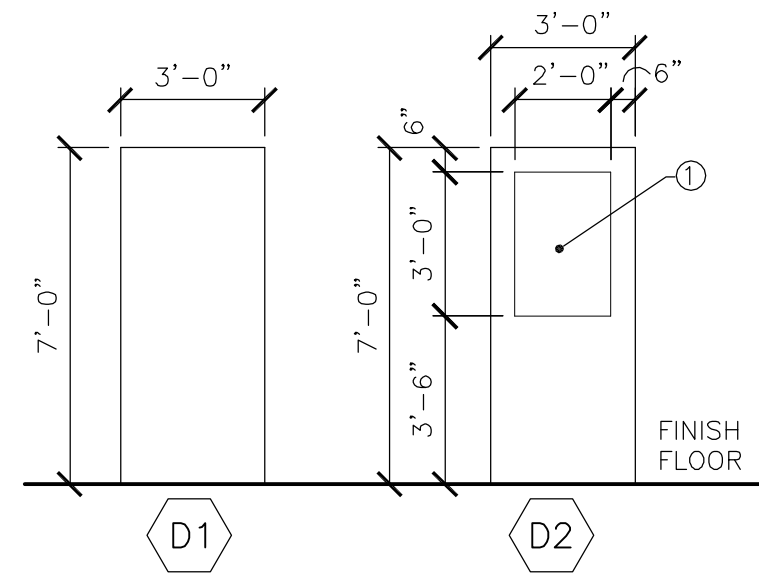
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DR BY: \_\_\_\_\_  
APPR'D BY: \_\_\_\_\_

SCALE:	AS NOTED
DATE:	NOVEMBER 2008

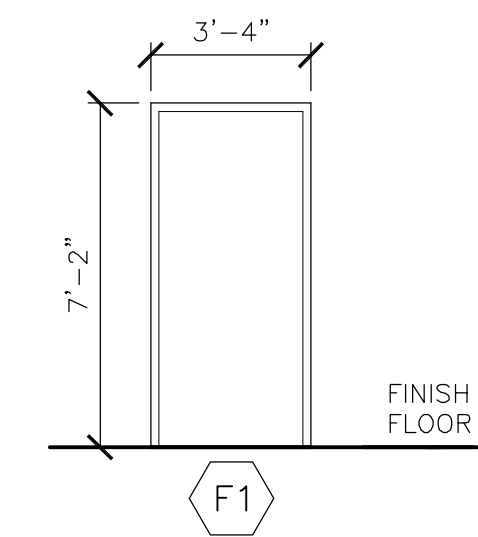
**MANATEE COUNTY S. W. R. W. T. P.**  
**ADMINISTRATION BUILDING RENOVATIONS**  
**OPS AND STORAGE ROOM EQUIPMENT PLAN & CASEWORK ELEVATIONS**

SHEET NO.
-----------

**2A2.2**



**1 DOOR TYPES**  
2A5.0 SCALE: 1/4" = 1'-0"



**2 FRAME TYPES**  
2A5.0 SCALE: 1/4" = 1'-0"

**DOOR SCHEDULE NOTES & REMARKS**

- HARDWARE SETS ARE LISTED IN THE PROJECT SPECIFICATIONS.
- ALUMINUM DOOR FRAME TO INCLUDE FRAME COMPONENTS FOR REQUIRED HARDWARE.
- SELECT AN EXISTING SOLID DOOR (TYPE D1) AND FRAME TO RELOCATE TO THIS OPENING. SWING CHANGES FROM EXISTING DOOR.

**FINISH SCHEDULE NOTES & REMARKS**

- CHEMICAL RESISTANT SHEET VINYL FLOORING SHALL BE INSTALLED OVER THE ENTIRE FLOOR AREA IN THE ROOM. (TO BE INSTALLED AFTER WALL FINISH IS IN PLACE)
- NOT USED.
- CERAMIC TILE SHALL BE INSTALLED FROM THE FLOOR TO THE CEILING AND OVER ALL GYPSUM BOARD WALLS (TO BE INSTALLED PRIOR TO SHEET VINYL FLOORING).
- NOT USED.
- PROVIDE MOISTURE RESISTANT (WASHABLE) ACOUSTICAL CEILING TILES AND GALV. METAL CEILING TRACK SYSTEM THROUGH OUT THE BUILDING USING "ULTIMA" BY ARMSTRONG AS THE BASIS OF DESIGN.
- PROVIDE FLOOR DRAINS FLUSH WITH NEW FLOOR FINISH AS INDICATED ON THE PLUMBING PLANS.
- REFER TO THE ENLARGED TOILET ROOM PLANS FOR NEW TOILET ACCESSORIES REQUIRED AND CERAMIC TILE PATTERN DESIGN.
- REFER TO 2A6.0 FOR CERAMIC TILE SIZES AND TO THE PROJECT SPECIFICATION FOR CERAMIC TILE INFORMATION.
- ALL CT1 WALL BASE SHALL BE THE COVED TYPE.
- FOR CERAMIC WALL TILE PATTERN AND EXTENT REQUIRED REFER TO DRAWING 2 ON SHEET 2A8.0.
- EXISTING 2'X4' GRID TO REMAIN. CLEAN GRID AFTER REMOVAL/DISPOSAL OF EXISTING TILES. INSTALL ADDITIONAL MATCH GRID MEMBERS TO SUPPORT NEW 2'X2' CEILING TILES. INSTALL NEW MOISTURE RESISTANT (WASHABLE) ACOUSTICAL CEILING TILES IN EXISTING GRID. EXISTING LIGHTS AND HVAC TO REMAIN.

**FINISH SCHEDULE ABBREVIATIONS**

- ACT: ACOUSTICAL CEILING TILE
- CONC: CONCRETE
- CT1: CERAMIC TILE 1
- CT2: CERAMIC TILE 2
- CT3: CERAMIC TILE 3
- CT4: CERAMIC TILE 4
- GB: GYPSUM BOARD (PAINTED)
- CRV: CHEMICAL RESISTANT VINYL FLOORING
- MGB: MOISTURE RESISTANT GYP BD W/THIN COAT PLASTER AND PAINT
- NR: FINISH NOT REQUIRED
- P1: INTERIOR PAINT 1
- P2: INTERIOR PAINT 2
- P3: INTERIOR PAINT 3
- VB: VINYL BASE
- X: EXISTING FINISH TO REMAIN

DOOR SCHEDULE														
NUMBER	SIZE	LABEL	DOOR			GLZ	HDWR	FRAME			FRAME DETAILS (DETAIL # / SHEET #)			REMARKS
			MATL	FINISH	TYPE			MATL	FINISH	TYPE	HEAD	JAMB	SILL	
101	EXISTING TO REMAIN	-	ALUM	-	-	-	-	ALUM	-	-	-	-	-	
103	3'-0"x7'-0"x1 3/4"	-	WD	S	D1		11	ALUM	PF	F1	2 / 2A6.1	1 / 2A6.1	3 / 2A6.1	
104	3'-0"x7'-0"x1 3/4"	-	WD	S	D2		11	ALUM	PF	F1	2 / 2A6.1	1 / 2A6.1	3 / 2A6.1	
105	3'-0"x7'-0"x1 3/4"	-	WD	S	D2	1	12	ALUM	PF	F1	2 / 2A6.1	1 / 2A6.1	-	
106	3'-0"x7'-0"x1 3/4"	-	WD	S	D2	1	12	ALUM	PF	F1	2 / 2A6.1	1 / 2A6.1	-	
107	3'-0"x7'-0"x1 3/4"	-	WD	S	D2	1	12	ALUM	PF	F1	2 / 2A6.1	1 / 2A6.1	-	
109	3'-0"x7'-0"x1 3/4"	-	WD	S	D2	1	12	ALUM	PF	F1	2 / 2A6.1	1 / 2A6.1	-	
110	EXISTING - RELOCATE	-	WD	S	D1	-	-	-	P-3	F1	-	-	3 / 2A6.1	3
111	3'-0"x7'-0"x1 3/4"	-	WD	S	D1		12	ALUM	PF	F1	2 / 2A6.1	1 / 2A6.1	-	
112	3'-0"x7'-0"x1 3/4"	-	WD	S	D2	1	12	ALUM	PF	F1	2 / 2A6.1	1 / 2A6.1	-	
113	3'-0"x7'-0"x1 3/4"	-	WD	S	D2	1	12	ALUM	PF	F1	2 / 2A6.1	1 / 2A6.1	-	
116	3'-0"x7'-0"x1 3/4"	-	ALUM	PF	D3	1	12	ALUM	PF	F1	2 / 2A6.1	1 / 2A6.1	-	
117	EXISTING TO BE RELOCATED	-	-	-				-	P-3	-				

**DOOR & FRAME ABBREVIATIONS**

- ALUM ALUMINUM
- P PAINTED
- PF PAINTED FINISH WITH FACTORY FINISH
- S CLEAR FINISH OVER NATURAL BIRCH
- WD WOOD - SOLID CORE

**GLAZING TYPES**

- 1 1/4" CLEAR TEMPERED GLASS

ROOM FINISH SCHEDULE (8)										
ROOM NO.	ROOM NAME	FLOOR	BASE (9)	WALLS ( MATERIAL / FINISH )				CEILING		REMARKS
				N	S	E	W	MATERIAL	HEIGHT	
101	FOYER AREA	CRV	VB	P1	P1	P1	P1	ACT	9'-0"	-
102	WOMEN'S SHOWER	CT3/4	CT3	CT3	CT3	CT3	CT3	MGB / P2	8'-0"	6 , 7
103	WOMEN'S TOILET ROOM	CT3/4	CT3	CT3	CT3	CT3	CT3	MGB / P2	8'-0"	6 , 7
104	MENS TOILET ROOM	CT3/4	CT3	CT3	CT3	CT3	CT3	MGB / P2	8'-0"	6 , 7
105	MANAGER OFFICE	CRV	VB	P1	P1	P1	P1	ACT	9'-0"	1
106	CONFERENCE ROOM	CRV	VB	P1	P1	P1	P1	ACT	9'-0"	1
107	COPY ROOM	CRV	VB	P1	P1	P1	P1	ACT	9'-0"	1
108	CORRIDOR	CRV	VB	P1	P1	P1	P1	ACT	9'-0"	4
109	OPS ROOM	CRV	CT1/2	CT1/2	CT1/2	CT1/2	CT1/2	ACT	9'-0"	1, 3 , 6 , 10
110	SHOWER ROOM	CT3/4	CT3	CT3	CT3	CT3	CT3	MGB / P2	8'-0"	6 , 7
111	STORAGE ROOM	CRV	CT1/2	CT1/2	CT1/2	CT1/2	CT1/2	ACT	9'-0"	1, 3 , 10
112	STORAGE ROOM	CRV	VB	P1	P1	P1	P1	ACT	9'-0"	1
113	LIBRARY	CRV	VB	P1	P1	P1	P1	ACT	9'-0"	1
116	CORRIDOR	X	X	P1	P1	P1	P1	X	X	
117	BREAK ROOM	CRV	VB	P1	P1	P1	P1	ACT	9'-0"	11
118	CORRIDOR	X	X	P1	P1	P1	P1	X	X	

REVISIONS	DESCRIPTION	DATE	BY
	ISSUED FOR BIDDING	12/8/2008	

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No. 0000002  
Terrance J. Short AR No. 92283

DR: BY: CK: BY: APPR'D BY:

SCALE: AS NOTED

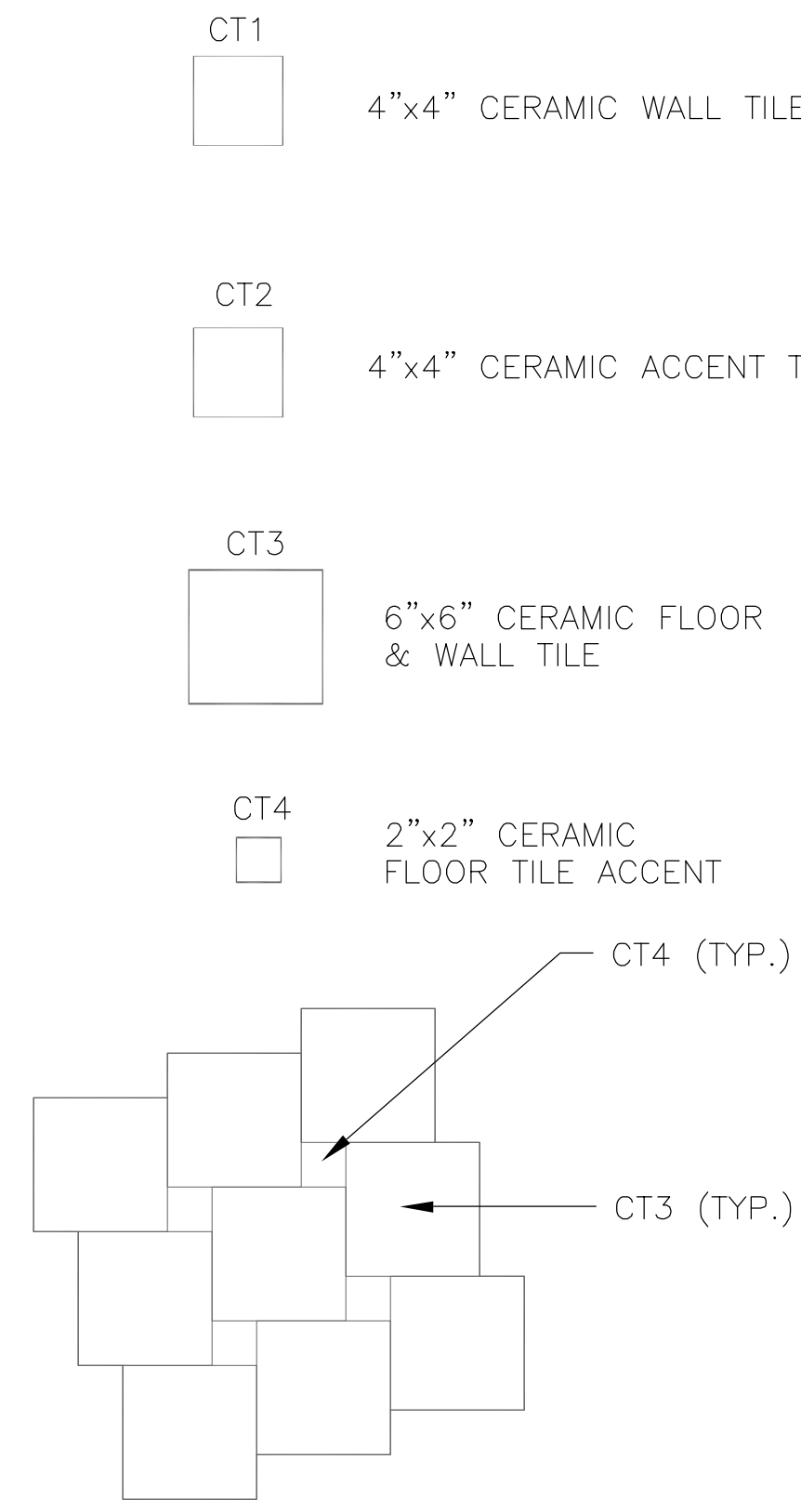
DATE: NOVEMBER 2008

MANATEE COUNTY S. W. R. W. T. P.  
ADMINISTRATION BUILDING RENOVATIONS

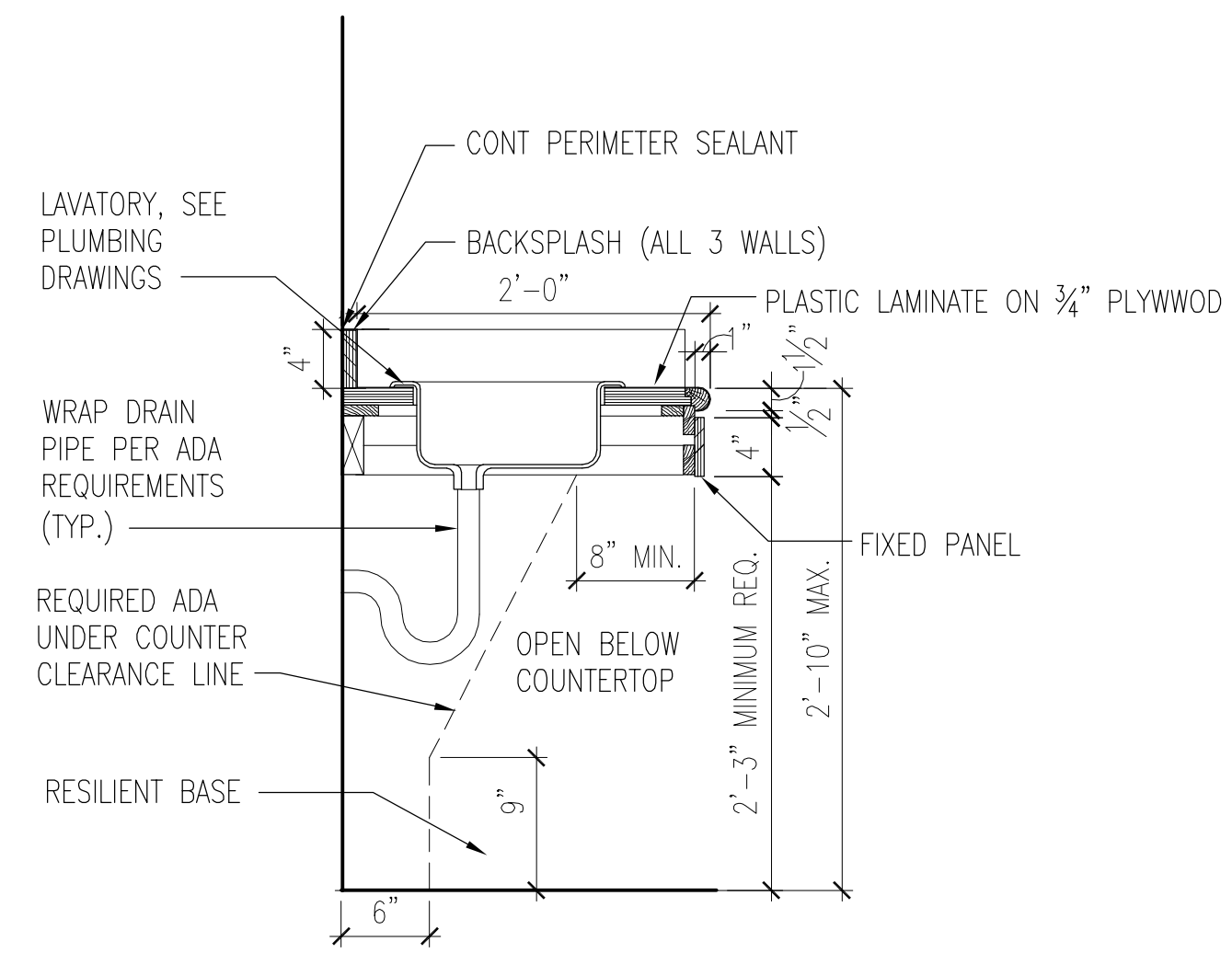
DOOR & FINISH SCHEDULE, NOTES & REMARKS, DOOR & FRAME TYPES

SHEET NO.
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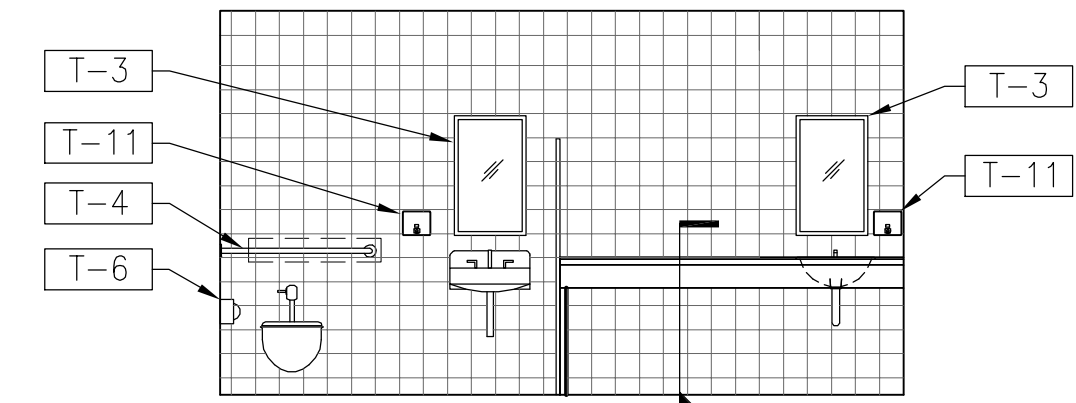
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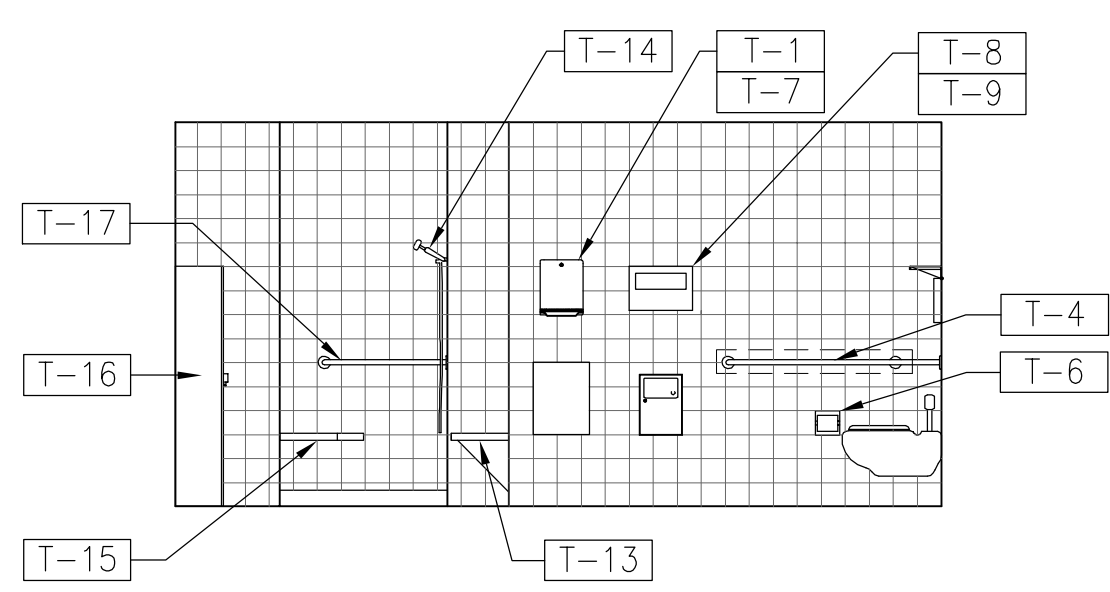
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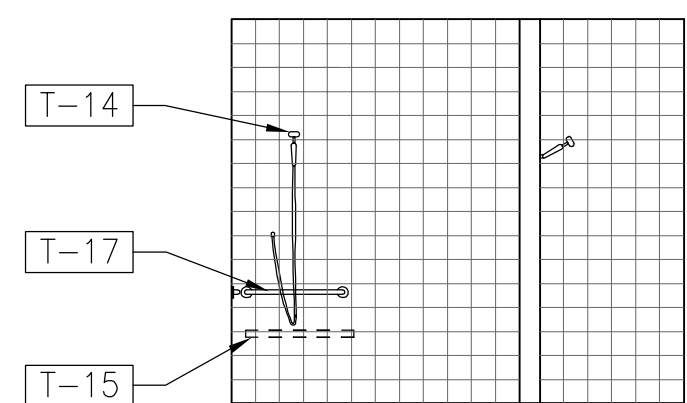
7 COUNTERTOP SECTION  
2A6.0 SCALE: 1" = 1'-0"



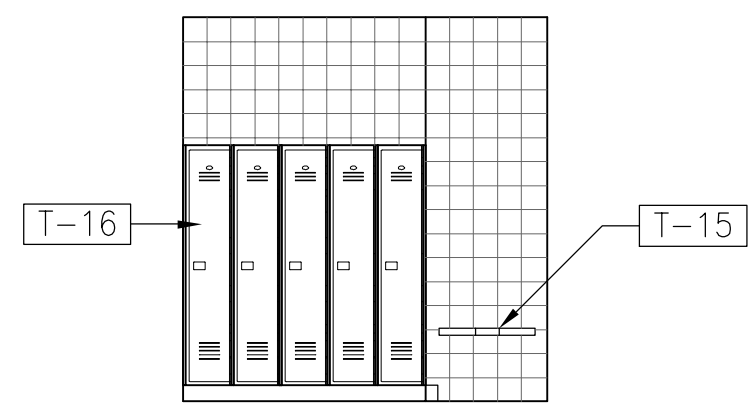
5 TOILET ROOM ELEVATION  
2A6.0 SCALE: 1/4" = 1'-0"



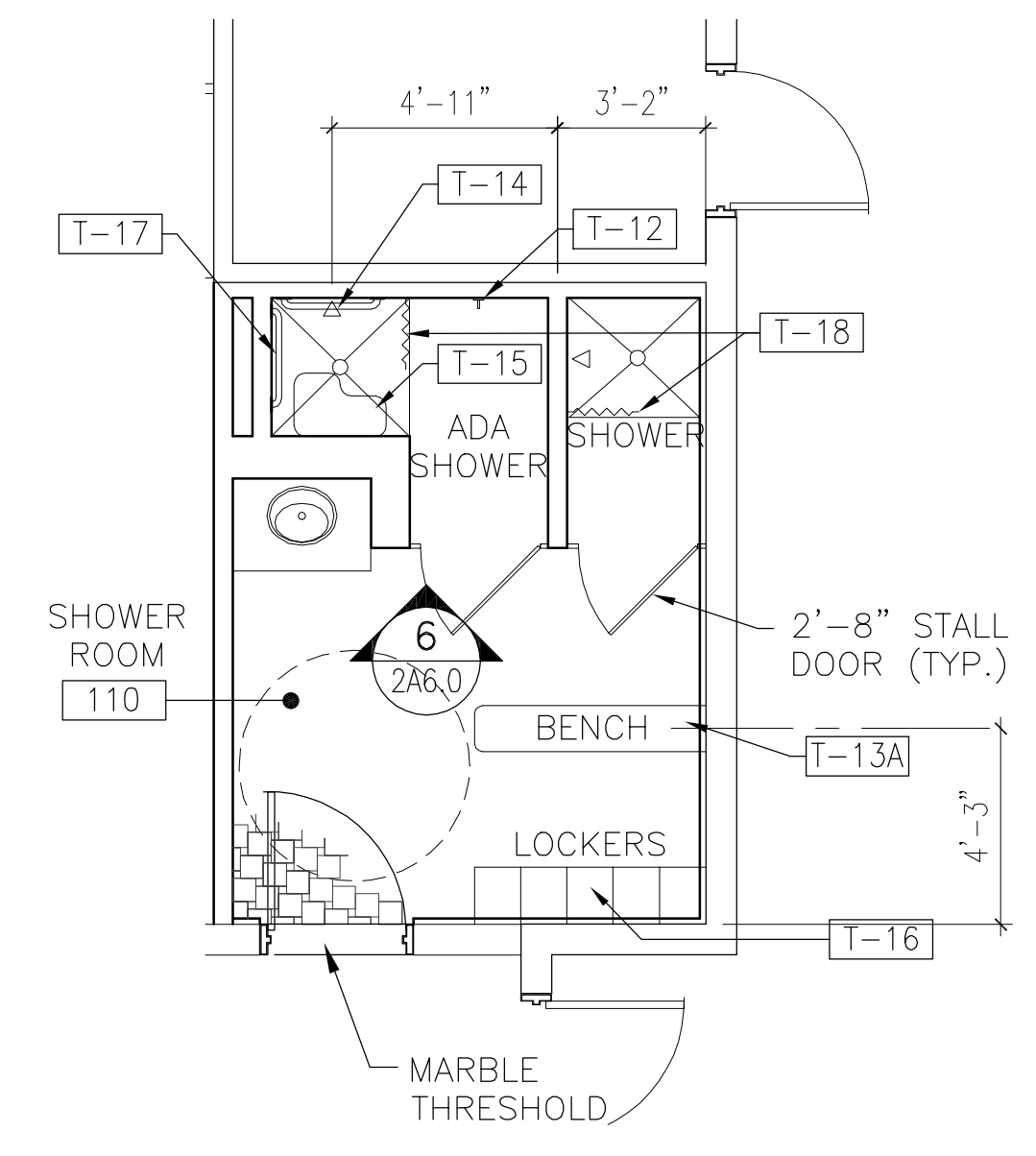
4 TOILET ROOM ELEVATION  
2A6.0 SCALE: 1/4" = 1'-0"



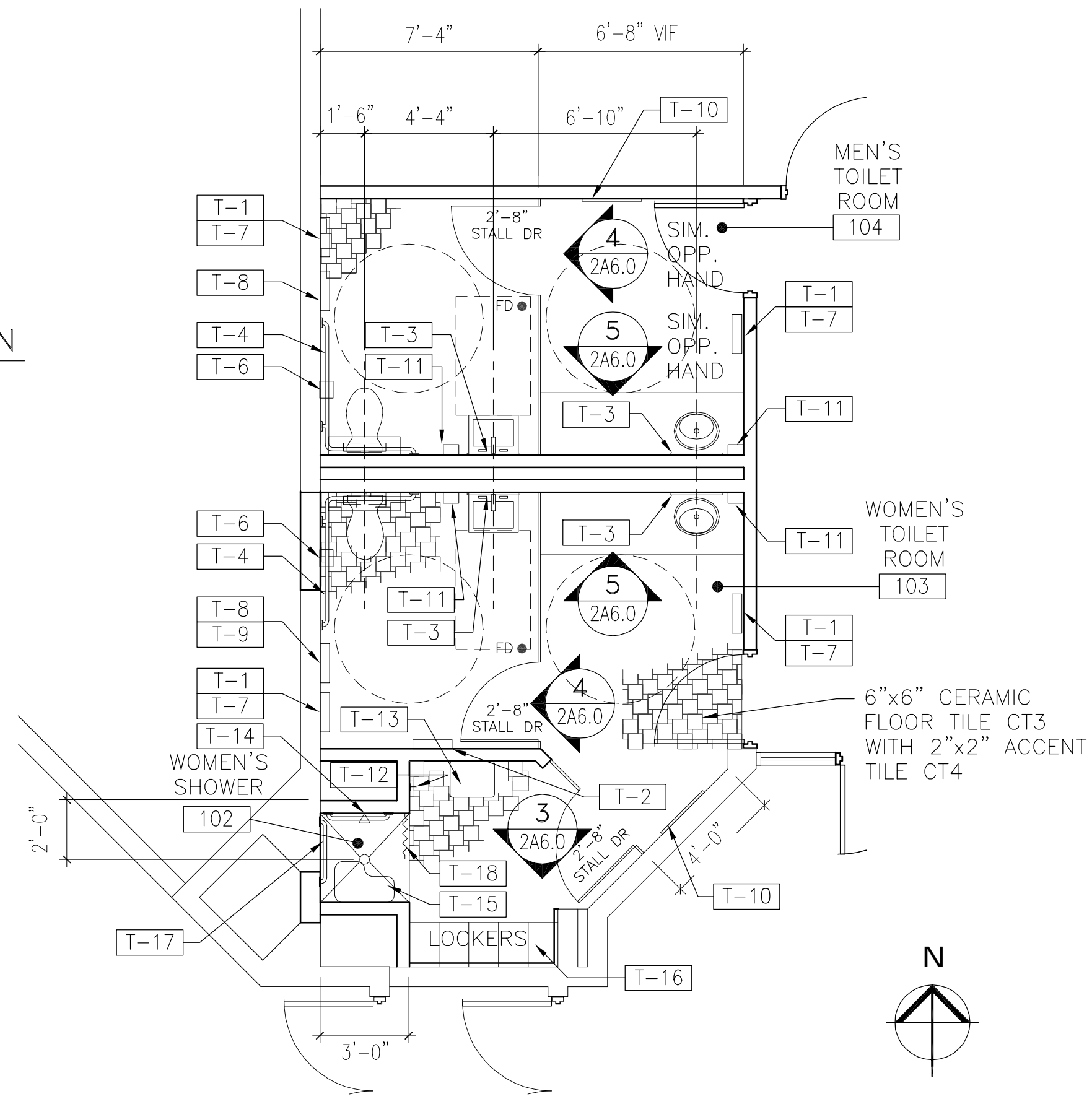
6 SHOWER ROOM ELEVATION  
2A6.0 SCALE: 1/4" = 1'-0"



3 TOILET ROOM ELEVATION  
2A6.0 SCALE: 1/4" = 1'-0"



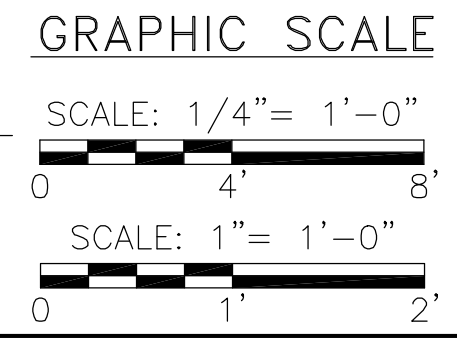
2 ENLARGED SHOWER ROOM PLAN  
2A6.0 SCALE: 1/4" = 1'-0"



1 ENLARGED TOILET ROOM PLAN  
2A6.0 SCALE: 1/4" = 1'-0"

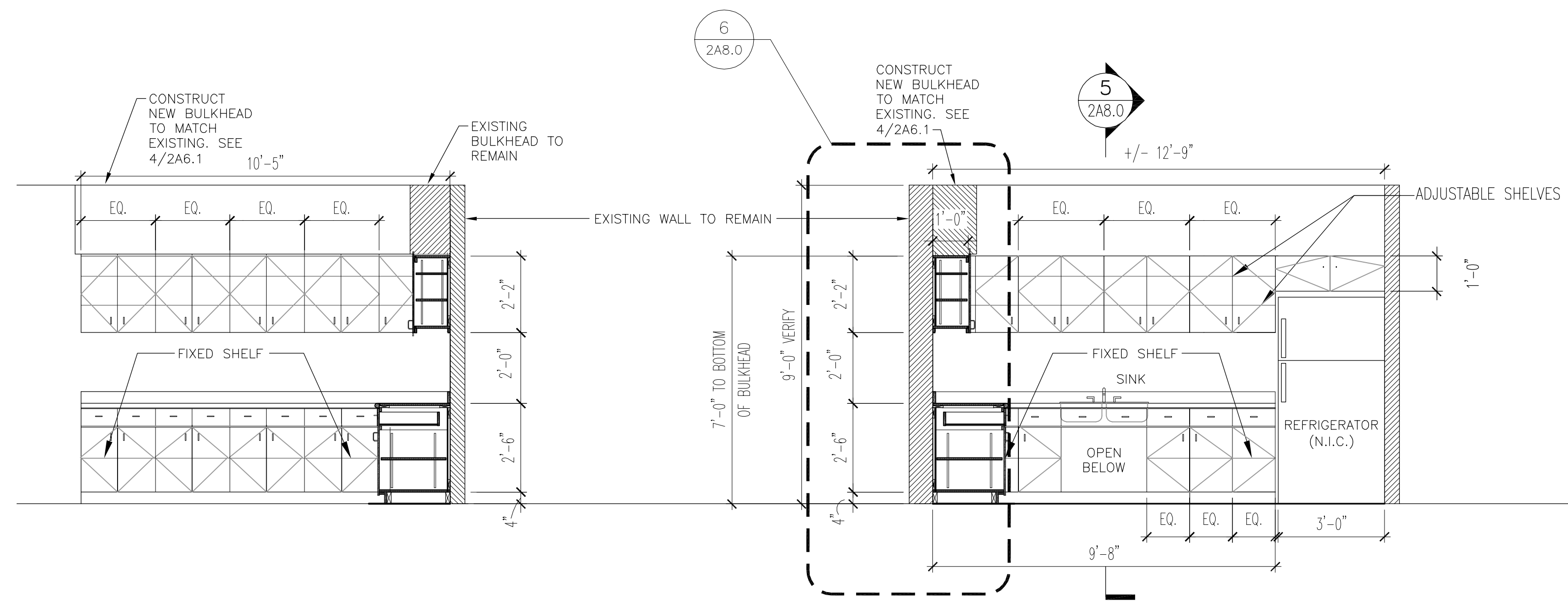
TOILET ACCESSORY SCHEDULE						
MARK	DESCRIPTION	MOUNTING	MANUF.	MODEL	MOUNTING HEIGHT	REMARKS
T-1	TOWEL DISPENSER	SURFACE	BOBRICK	B-262	54" TOP	
T-2	NAPKIN/TAMPON VENDOR	RECESSED	BOBRICK	B-3500X2	50" TOP	
T-3	MIRROR W/ S.S. FRAME	SURFACE	BOBRICK	B-293 18X30	40" BOTTOM	ADA MIRROR IN ADA STALLS
T-4	S.S. GRAB BAR "L"	SURFACE	BOBRICK	B-68137.99	34" TOP	
T-5	TOWEL DISPENSER/DISPOSAL	SEMI-REC.	BOBRICK	B-3944		
T-6	TOILET PAPER DISPENSER	SURFACE	BOBRICK	B-686	20" TOP	TWO ROLL UNIT
T-7	WASTE RECEPTACLE	SURFACE	BOBRICK	B-279	30" TOP	
T-8	SEAT COVER DISPENSER	SURFACE	BOBRICK	B-221	45" TOP	
T-9	SANITARY NAPKIN DISPOSAL	SURFACE	BOBRICK	B-254	30" TOP	
T-10	MIRROR W/ S.S. FRAME	SURFACE	BOBRICK	B-60X24	10" AFF	
T-11	SOAP DISPENSER	SURFACE	BOBRICK	B-155	50" TOP	
T-12	CLOTHING HOOK	SURFACE	BOBRICK	B-2116	50" AFF	
T-13	FOLDING BENCH	SURFACE	BOBRICK	B-5191	19" TOP OF SEAT	
T-13A	PEDESTAL BENCH	SURFACE	BRADLEY	LENOX PEDESTAL		12" x 60"
T-14	HAND HELD SHOWER HEAD	SURFACE	BRADLEY	B-24		ADA COMPLIANT
T-15	FOLD DOWN SHOWER BENCH	SURFACE	BOBRICK	B-518	19" TOP OF SEAT	
T-16	METAL LOCKERS	SURFACE	BRADLEY			
T-17	S.S. GRAB BAR "L"	SURFACE	BOBRICK			
T-18	SHOWER CURTAIN	SURFACE	BOBRICK	B0207 / 204-2		

1. MANUFACTURER AND MODEL NUMBER LISTED IS BASIS OF DESIGN WHEN CONSIDERING APPROVED EQUALS.  
2. REFER TO TOILET PLANS & ELEVATIONS FOR ACCESSORY LOCATIONS.



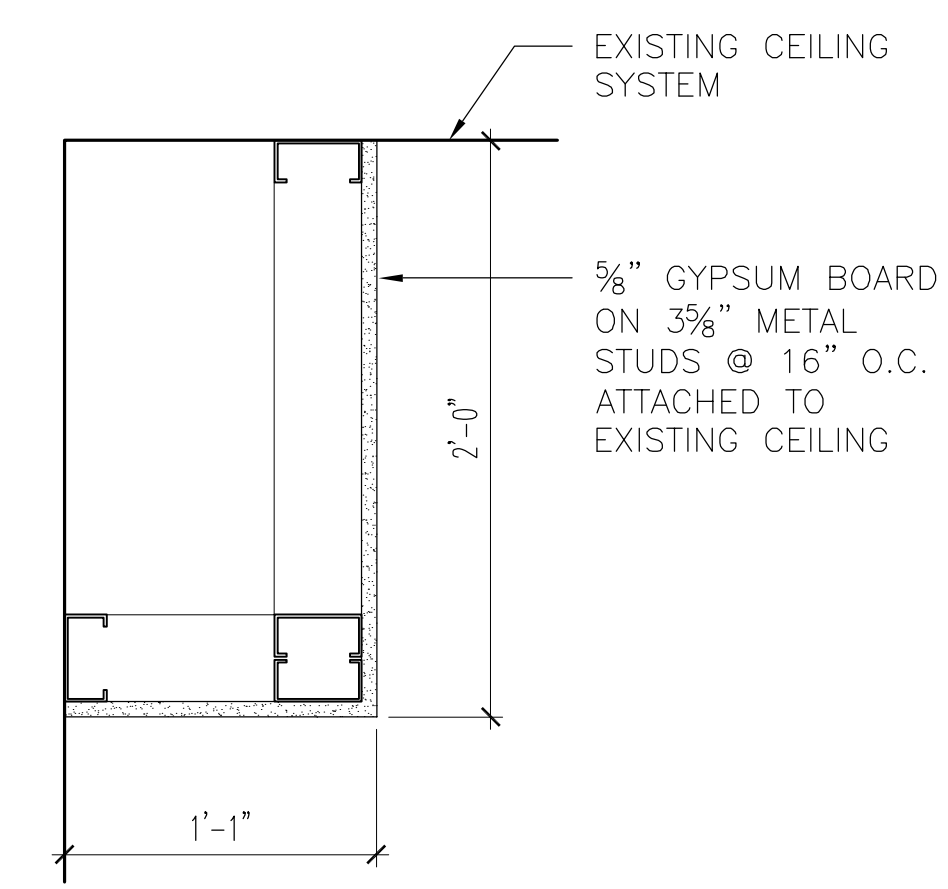
REVISIONS	
DATE	DESCRIPTION
12/8 2008	ISSUED FOR BIDDING
BY	
URS Corporation Southern 7650 West Courtney Campbell Causeway Tampa, FL 33607-1462 No. 0000002 Terrence J. Short AR No. 92283	
DSGN. BY:	APPR'D. BY:
DR. BY:	
SCALE:	DATE: NOVEMBER 2008
<b>MANATEE COUNTY S. W. R. W. T. P.</b> ADMINISTRATION BUILDING RENOVATIONS ENLARGED TOILET ROOM PLANS, ACCESSORY SCHEDULE & ELEVATIONS	
SHEET NO.	
2A6.0	



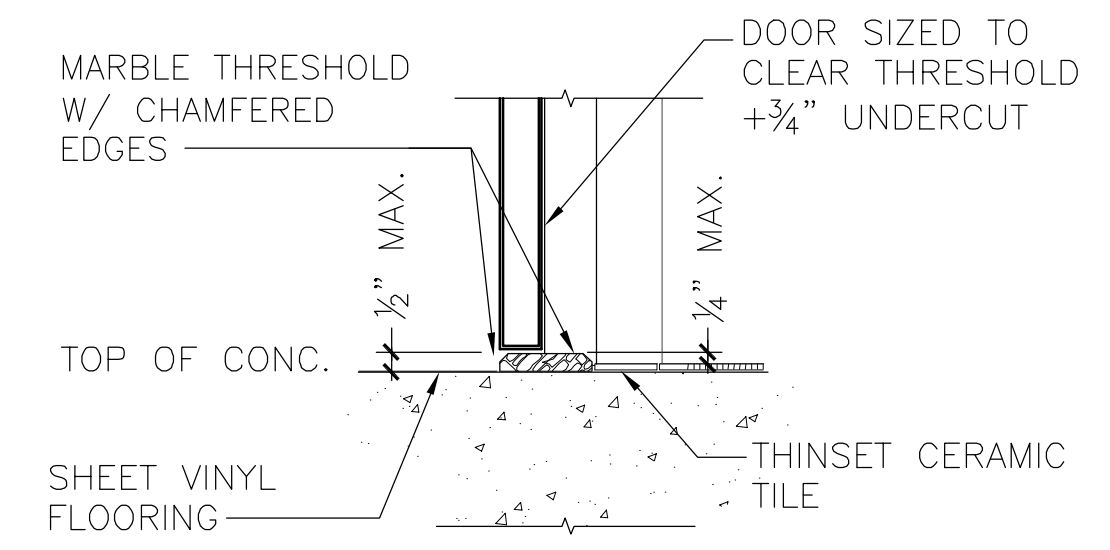


**6** INTERIOR ELEVATION (BREAK ROOM 117)  
2A6.1 SCALE: 3/8" = 1'-0"

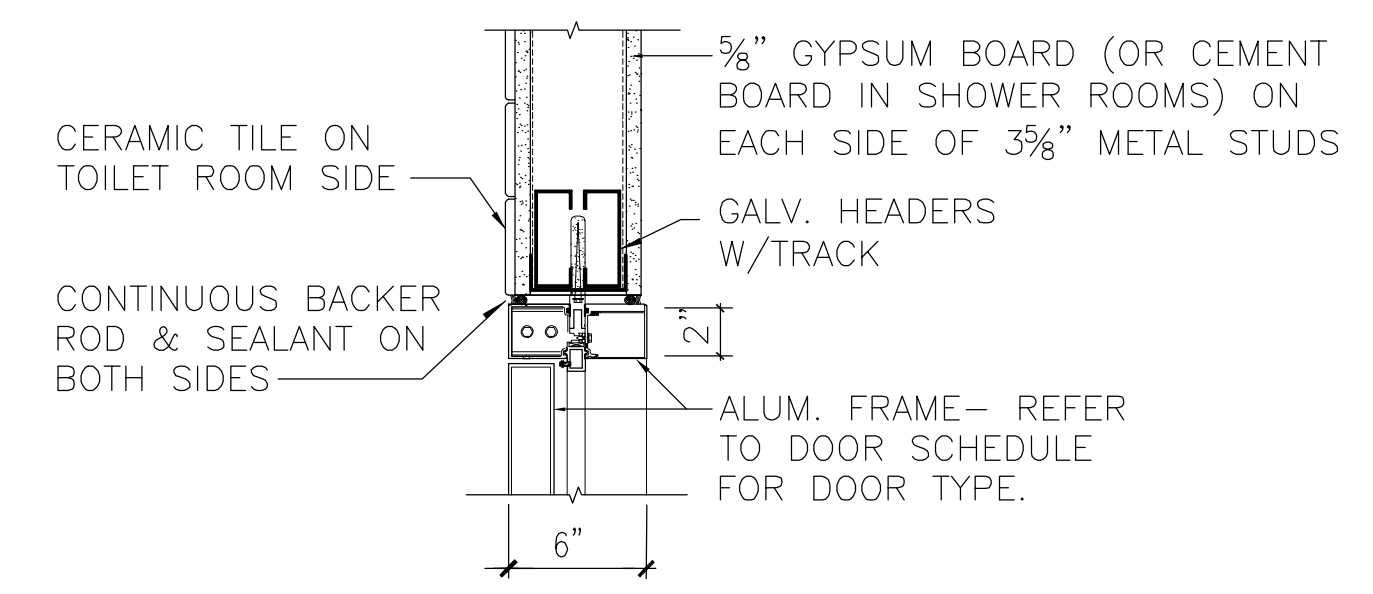
**5** INTERIOR ELEVATION (BREAK ROOM 117)  
2A6.1 SCALE: 3/8" = 1'-0"



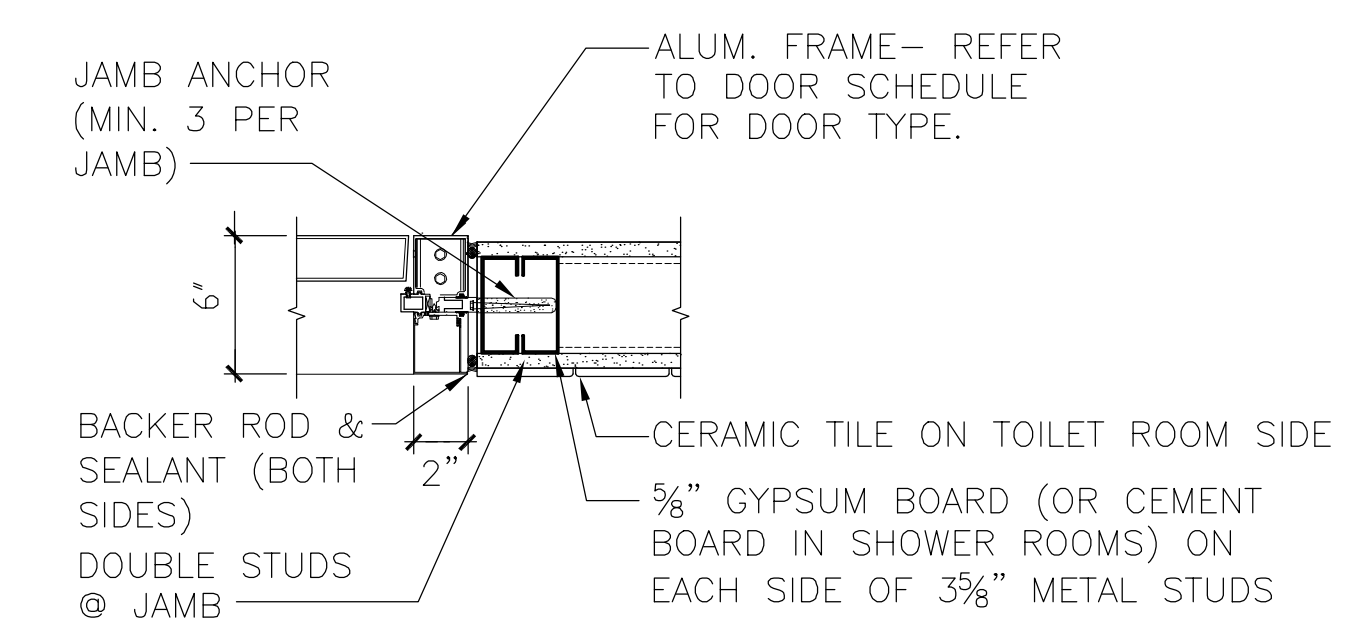
**4** BULKHEAD DETAIL  
2A6.1 SCALE: 1 1/2" = 1'-0"



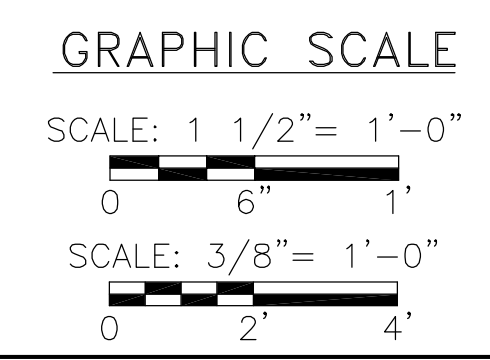
**3** THRESHOLD DETAIL  
2A6.1 SCALE: 1 1/2" = 1'-0"



**2** HEAD DETAIL  
2A6.1 SCALE: 1 1/2" = 1'-0"



**1** JAMB DETAIL  
2A6.1 SCALE: 1 1/2" = 1'-0"



REVISIONS	
DATE	DESCRIPTION
12/8 2008	ISSUED FOR BIDDING

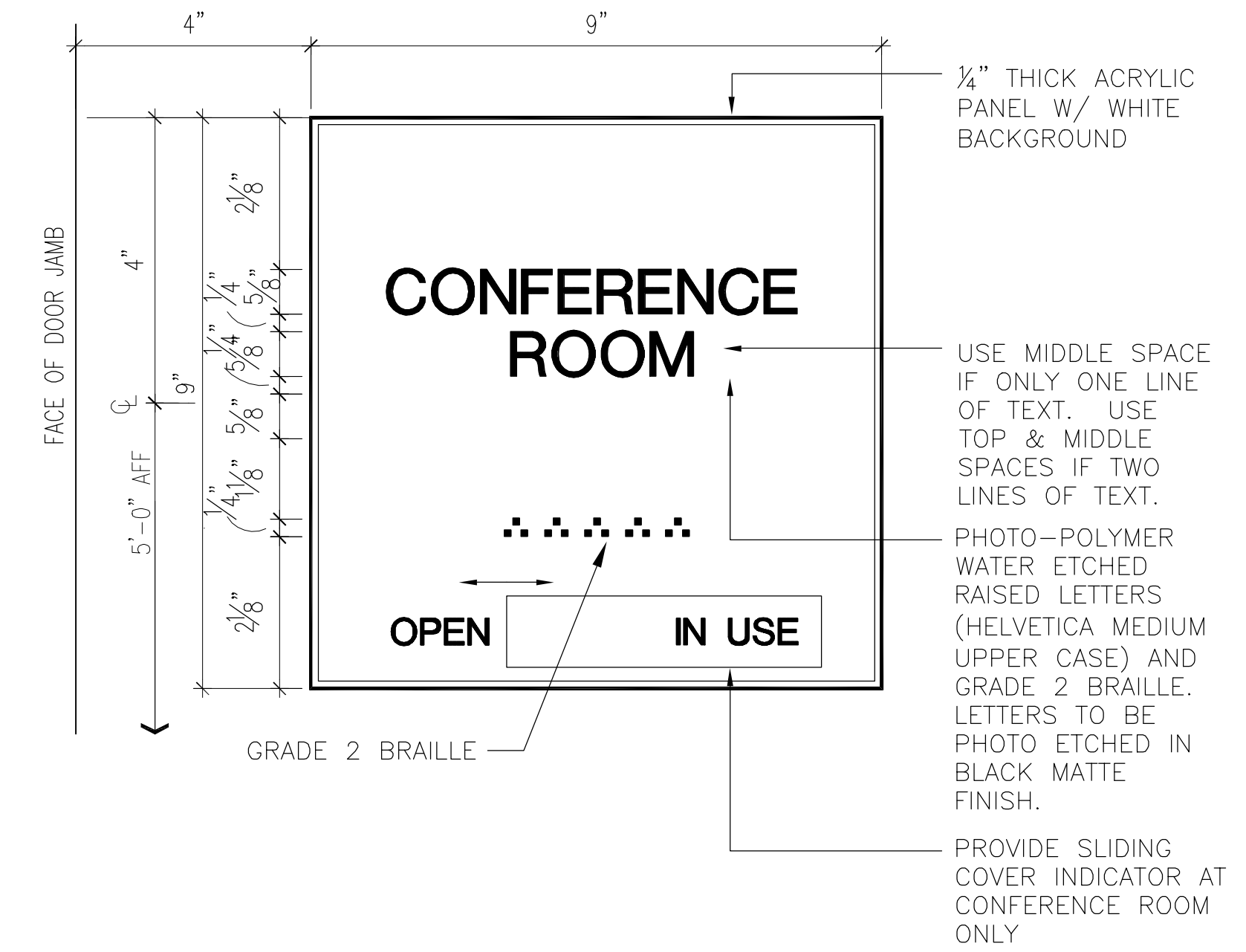
URS Corporation Southern  
7650 West Courtney  
Campbell Causeway  
Tampa, FL 33607-1462  
No. 0000002  
Terrance J. Short AR No. 92283

DR: BY:      CK: BY:      APPR'D BY:

SCALE: AS NOTED  
DATE: NOVEMBER 2008

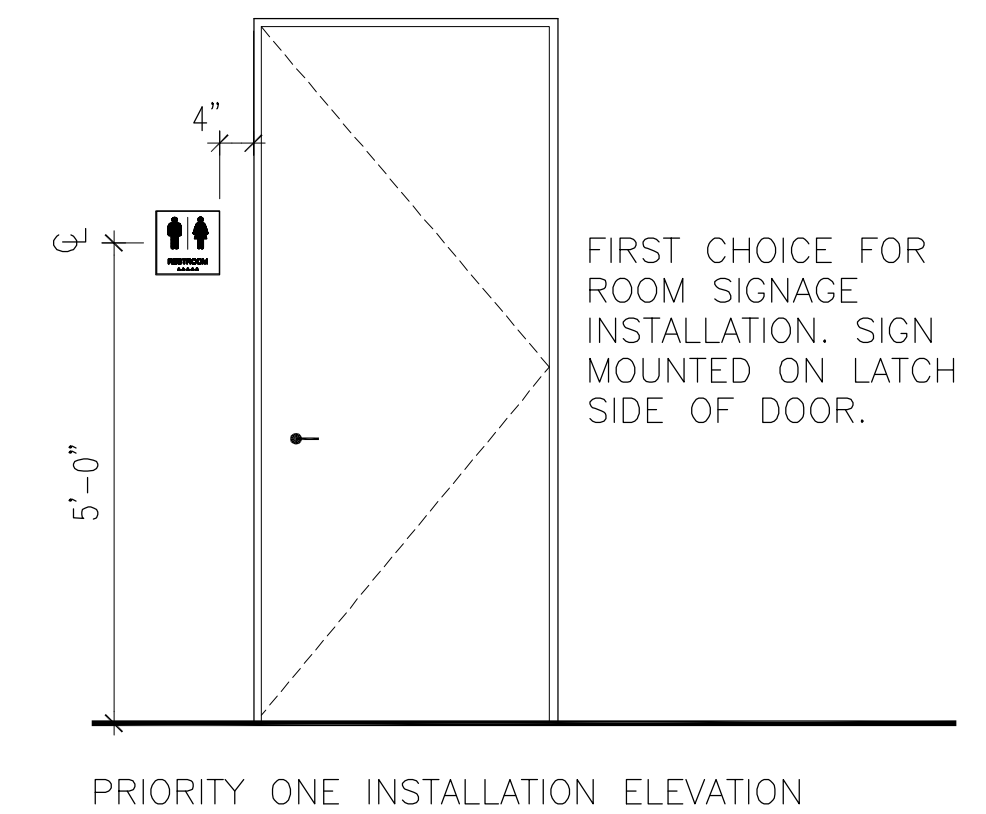
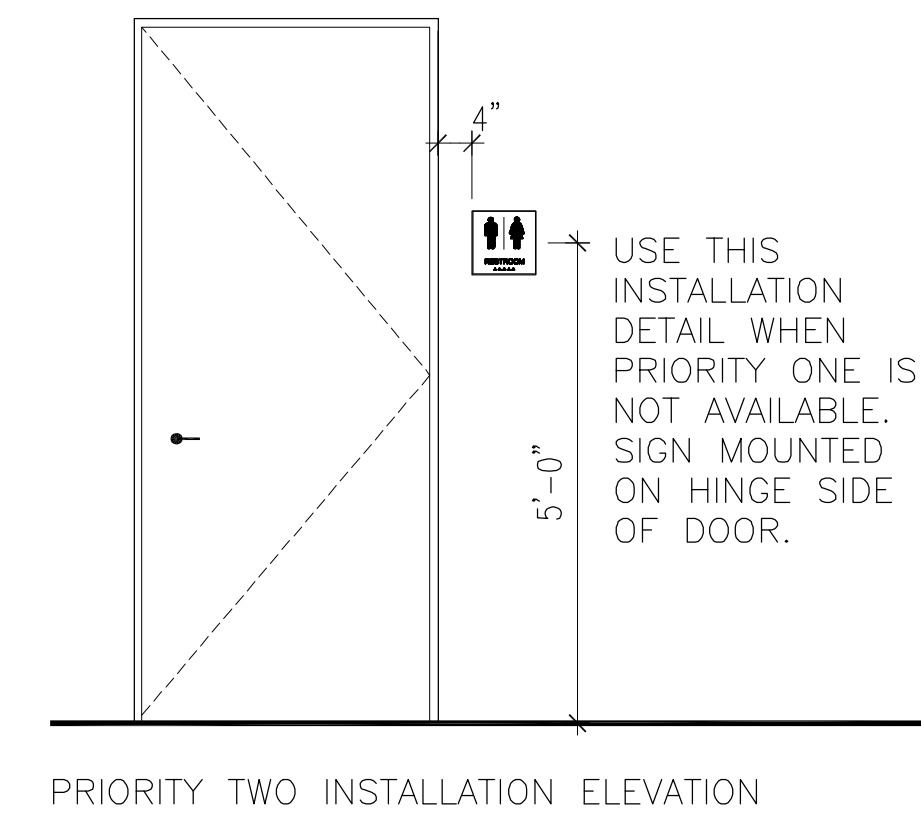
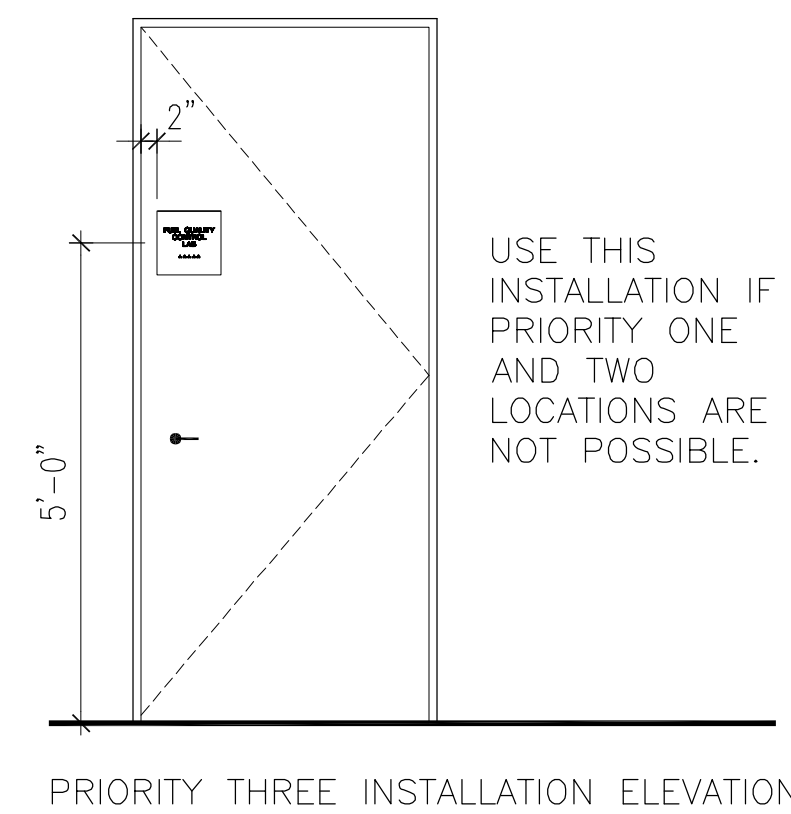
**MANATEE COUNTY S. W. R. W. T. P.**  
**ADMINISTRATION BUILDING RENOVATIONS**  
**DOOR DETAILS**

SIGN SCHEDULE				
ROOM NO.	TEXT	PRIORITY LOCATION	PICTOGRAM	"IN USE"
103	WOMENS TOILET & SHOWER	ONE	YES	-
104	MENS TOILET	ONE	YES	-
105	MANAGER	TWO	-	-
106	CONFERENCE ROOM	ONE	-	YES
107	COPY ROOM	ONE	-	-
109	OPS ROOM	ONE	-	-
110	SHOWER ROOM	ONE	-	-
111	STORAGE	ONE	-	-
112	STORAGE	ONE	-	-
113	LIBRARY	ONE	-	-
117	BREAK ROOM	ONE	-	-



SIGNAGE GENERAL NOTES

- NOT USED.
- PROVIDE SIGN SAMPLES FOR EACH TYPE OF SIGN WITH COLOR CHART, PATTERNS AVAILABLE, AND TEXTURES FOR OWNER/ARCHITECT REVIEW AND APPROVAL.
- CONFIRM SIGN MOUNTING LOCATION WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- THE EXTENT OF SIGNS IS INDICATED ABOVE.
- PROVIDE SIGN TYPE "B" WITH GRAPHIC SYMBOLS INDICATING ACCESSIBILITY FOR ALL TOILET ROOM DOORS.
- SIGNS SHALL BE INSTALLED USING CONCEALED FASTENERS.



DATE	BY	DESCRIPTION
9/23/05	PW	NOA'S REQUESTED BY BUILDING DEPT
10/5/05	PW	UPGRADED TO 2004-FBC PER BUILDING DEPT

URS Corporation Southern  
7650 West Courtney  
Campbell Causeway  
Tampa, FL 33607-1462  
No. 00000002  
Terrance J. Short AR No.: 92283

DR: BT  
CK: BT  
APPR'D BY:

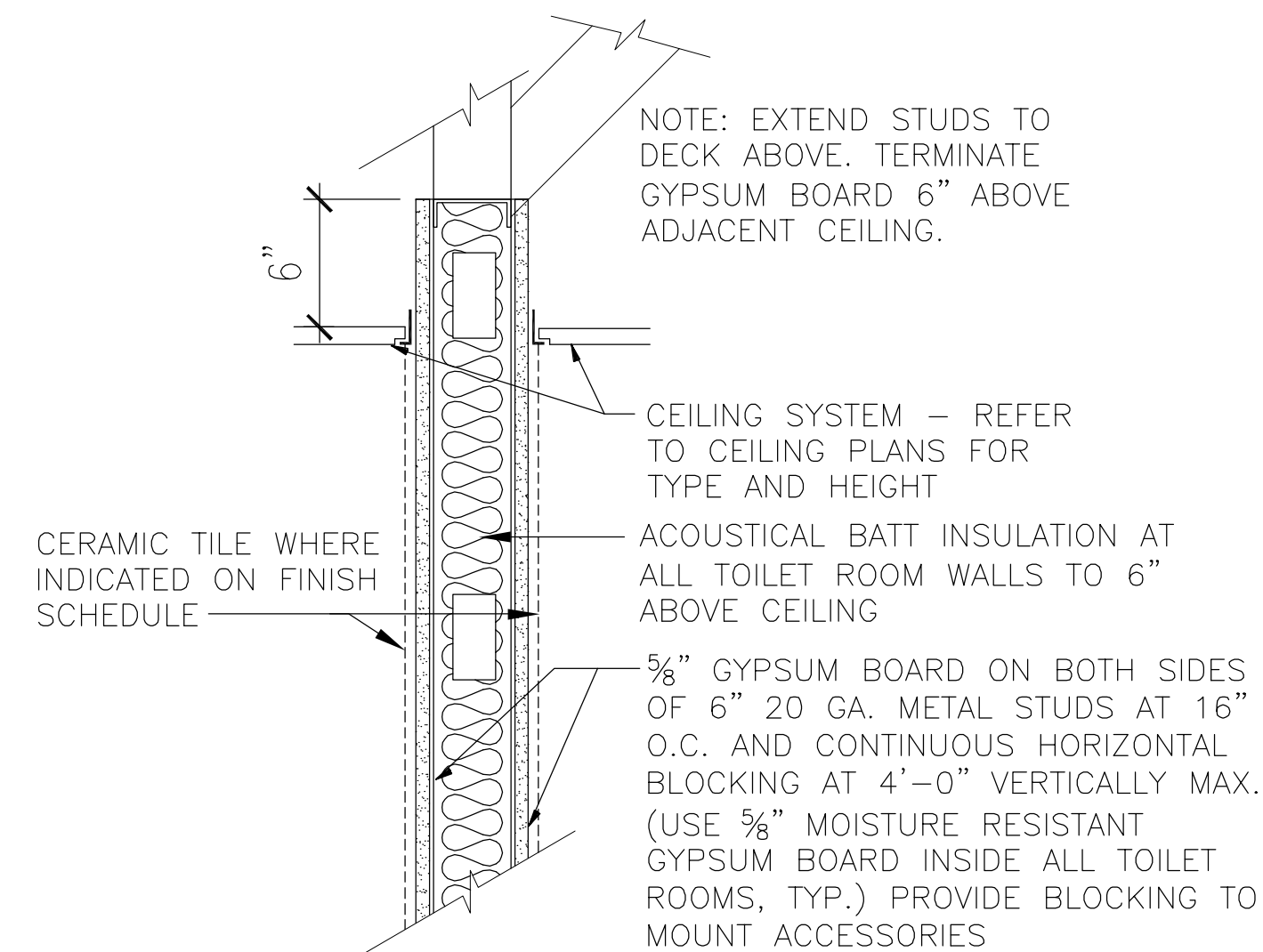
SCALE:	AS NOTED
DATE:	January 1, 2005

MANATEE COUNTY S. W. R. W. T. P.  
NEW LABORATORY BUILDING AND  
ADMINISTRATION BUILDING RENOVATIONS

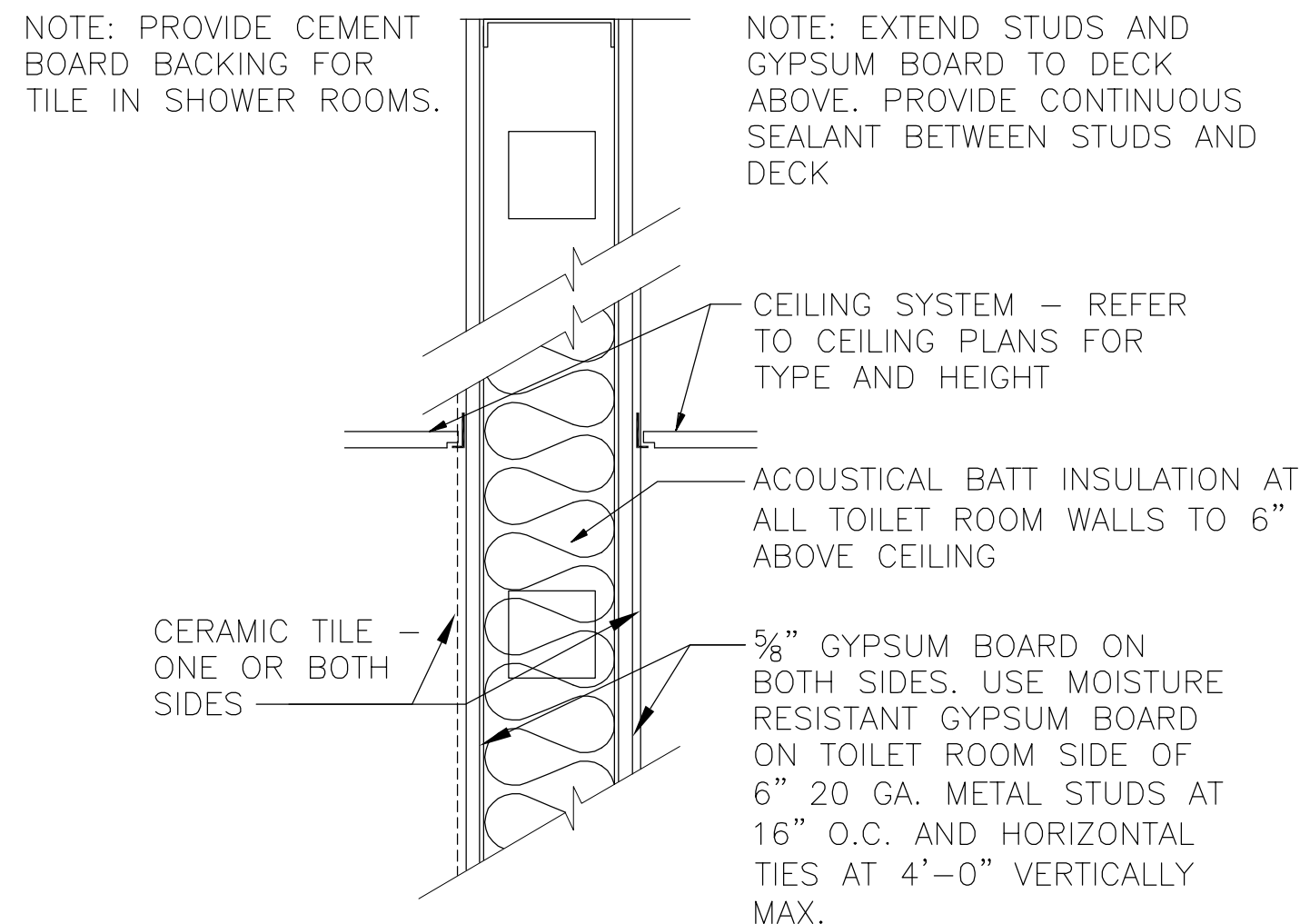
PROJECT SIGNAGE, DETAILS & NOTES

BID DOCUMENTS

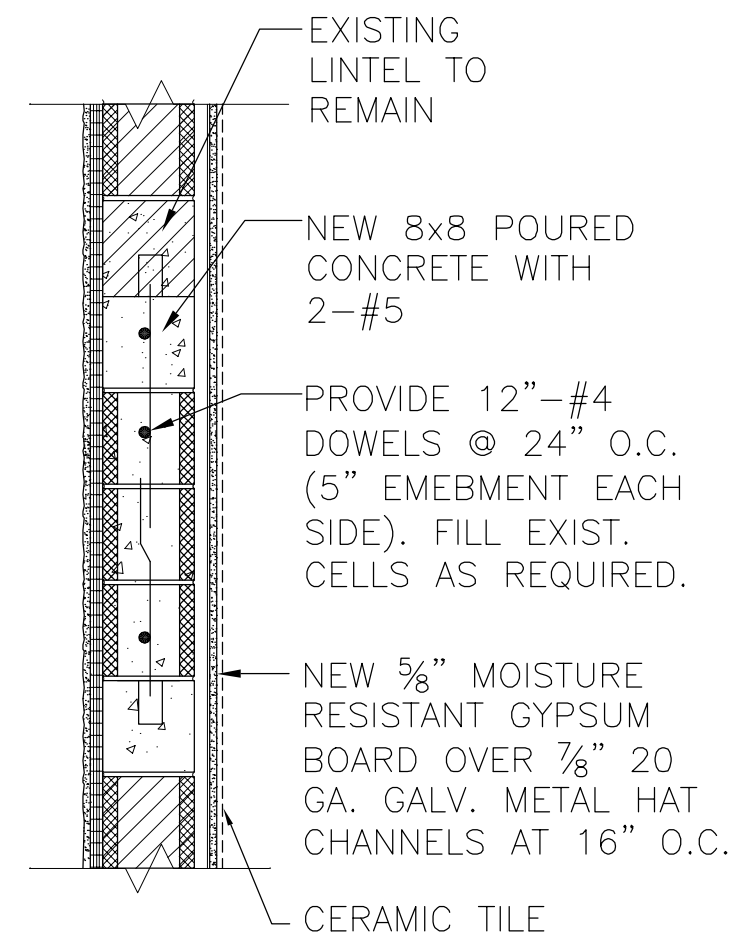
SHEET NO.  
2A6.2



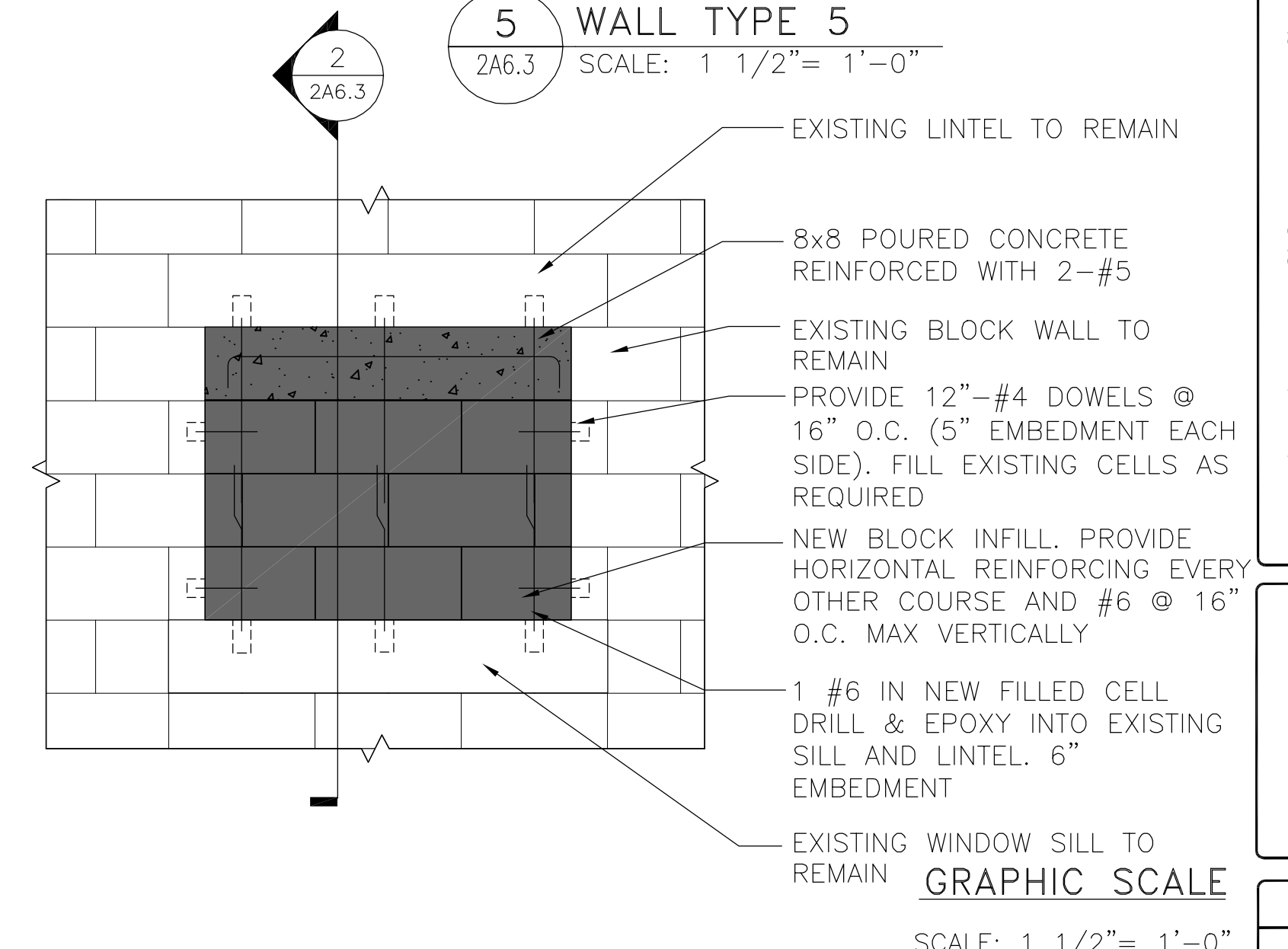
**4 WALL TYPE 4**  
2A6.3 SCALE: 1 1/2" = 1'-0"



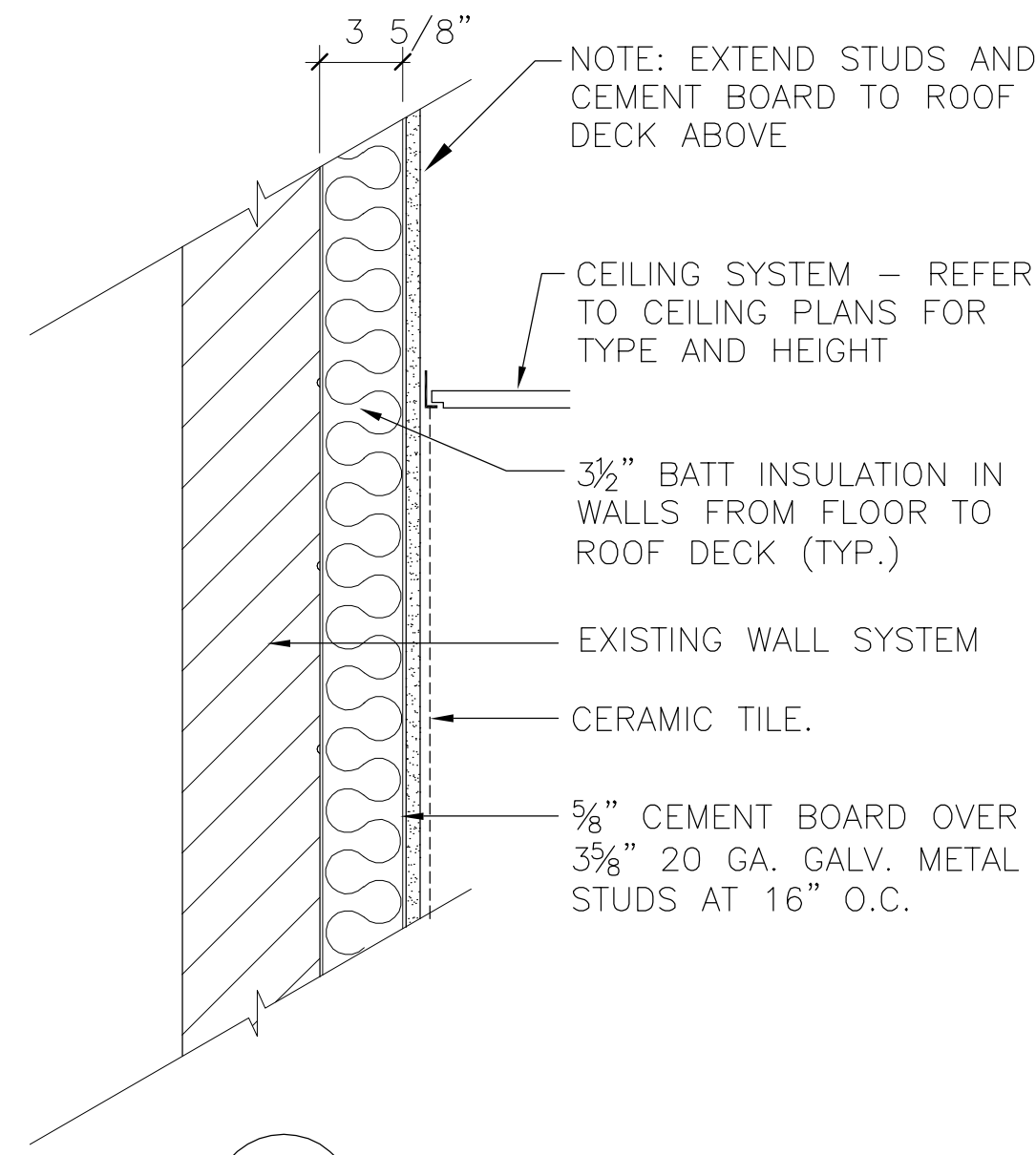
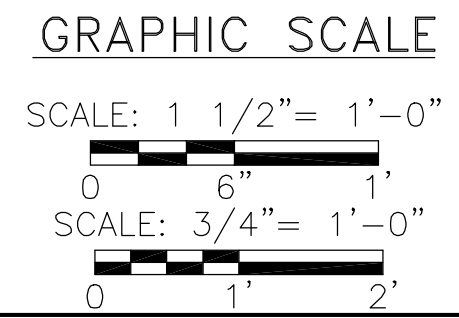
**3 WALL TYPE 3**  
2A6.3 SCALE: 1 1/2" = 1'-0"



**2 SECTION DETAIL**  
2A6.3 SCALE: 3/4" = 1'-0"



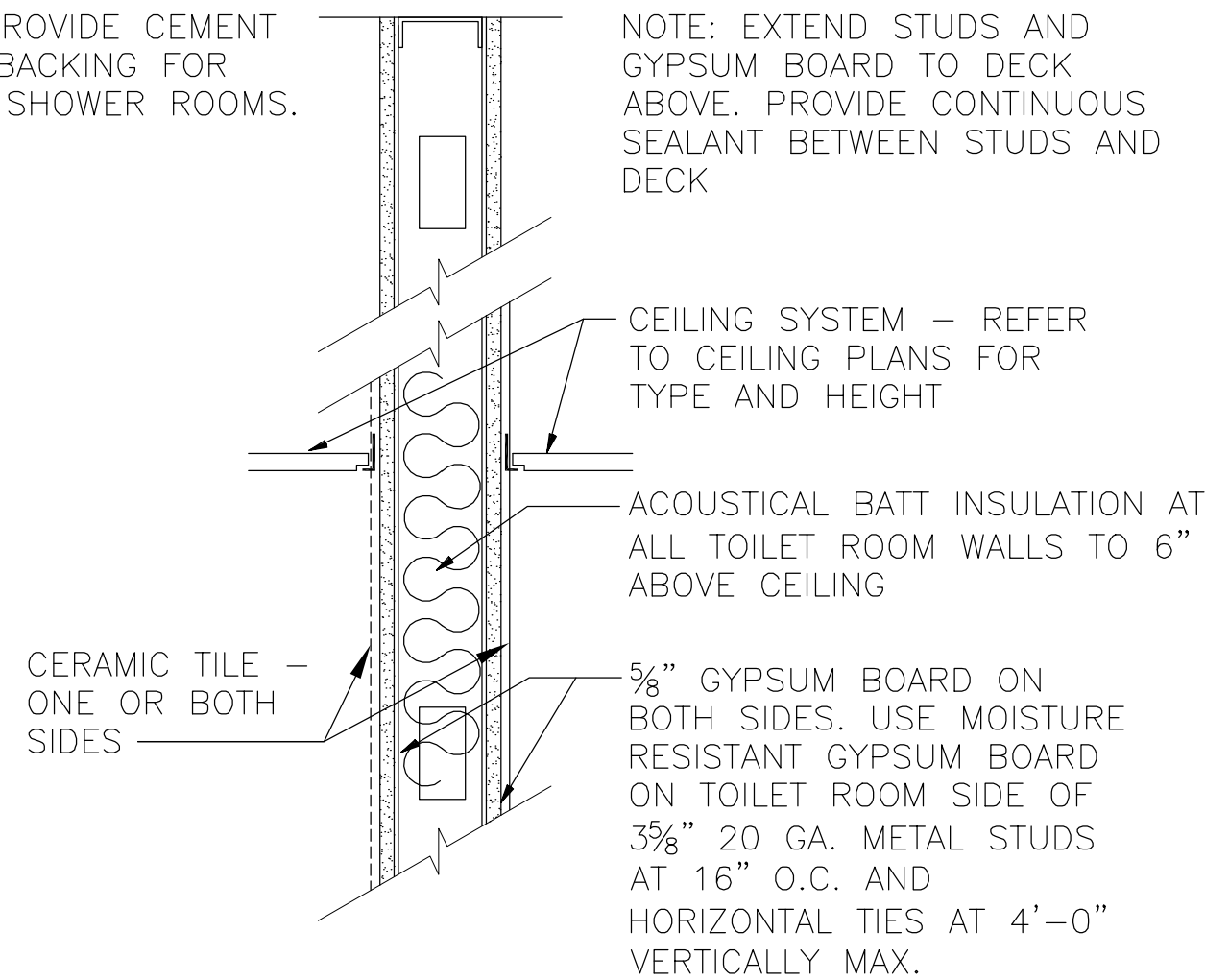
**1 WALL TYPE 1**  
2A6.3 SCALE: 3/4" = 1'-0"



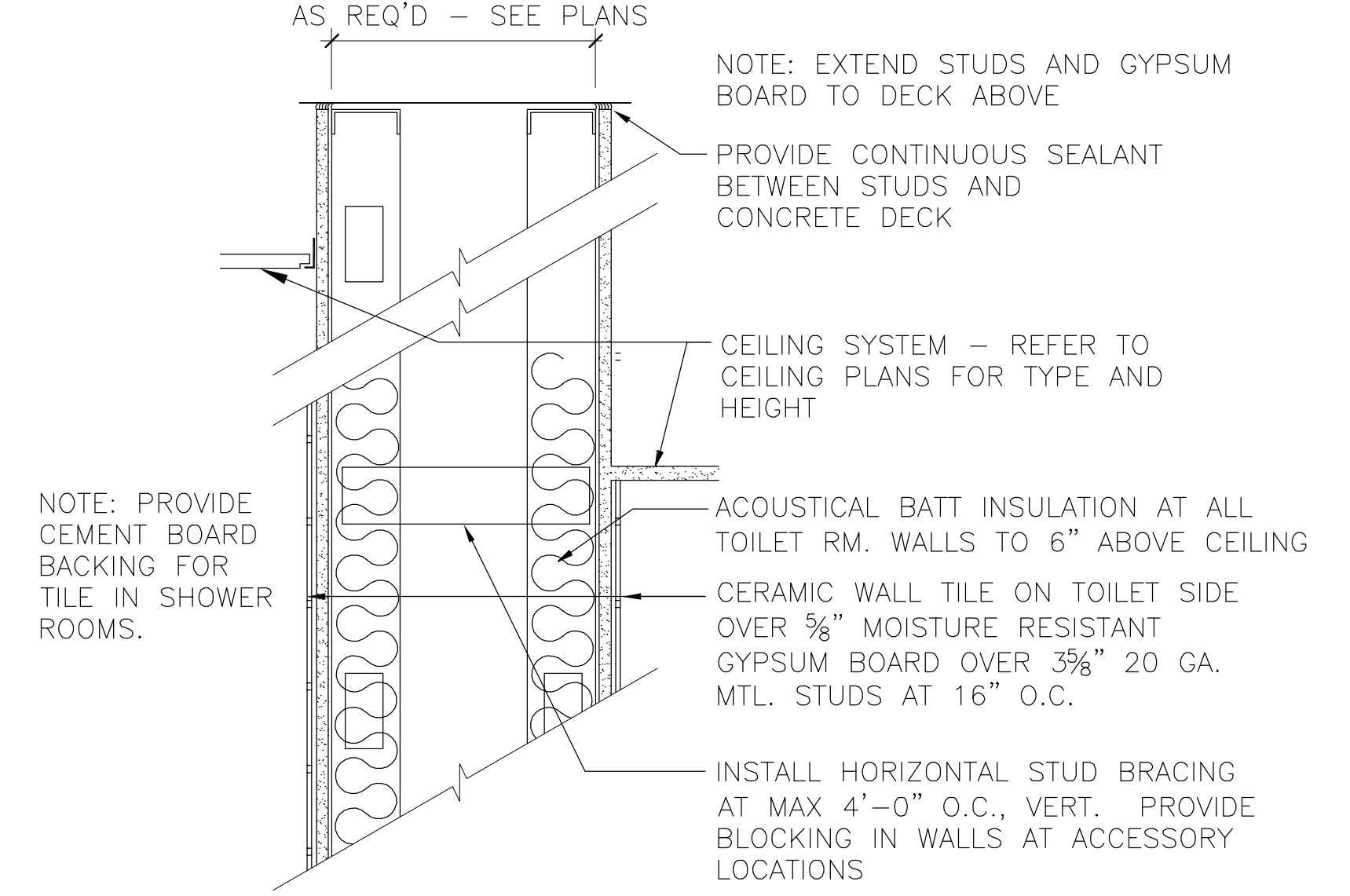
**9 WALL TYPE 9**  
2A6.3 SCALE: 1 1/2" = 1'-0"

**8 NOT USED**  
2A6.3 SCALE: 1 1/2" = 1'-0"

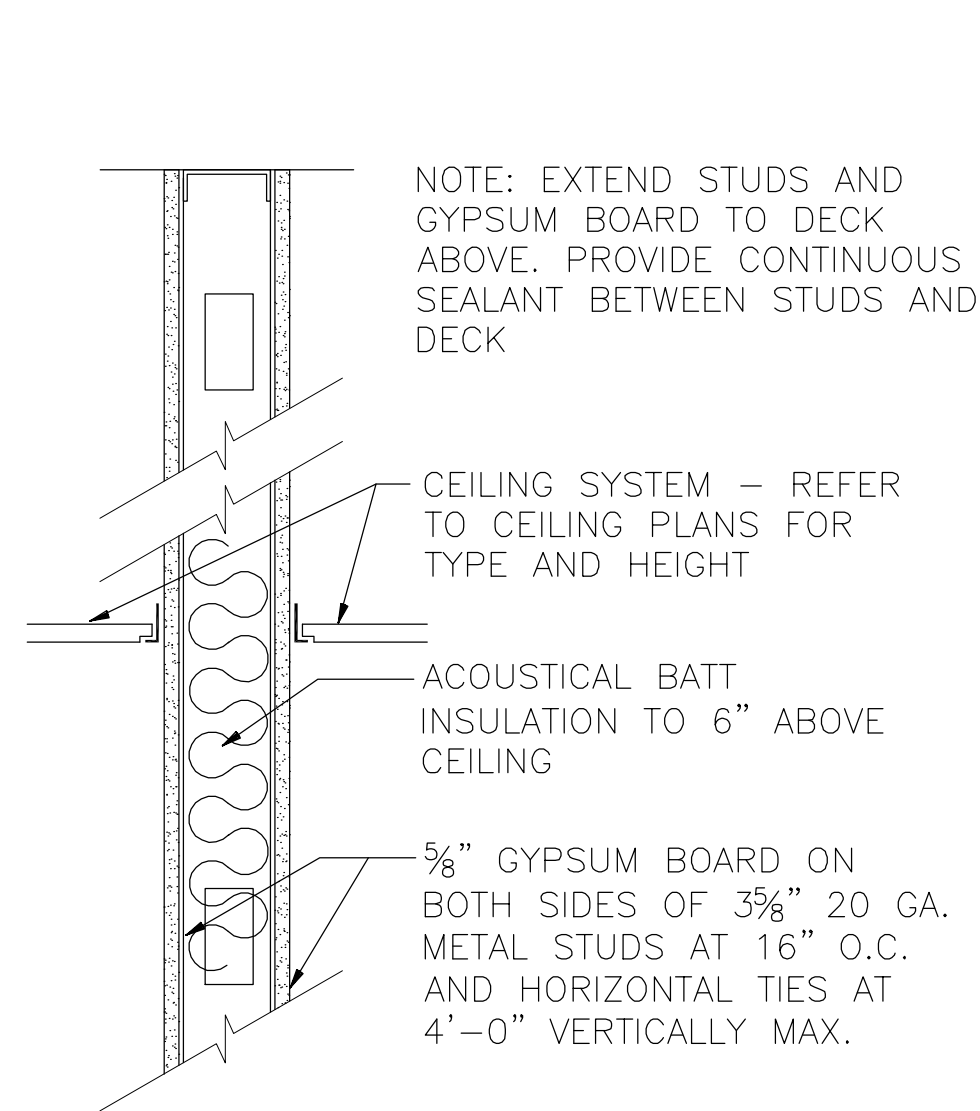
**7 NOT USED**  
2A6.3 SCALE: 1 1/2" = 1'-0"



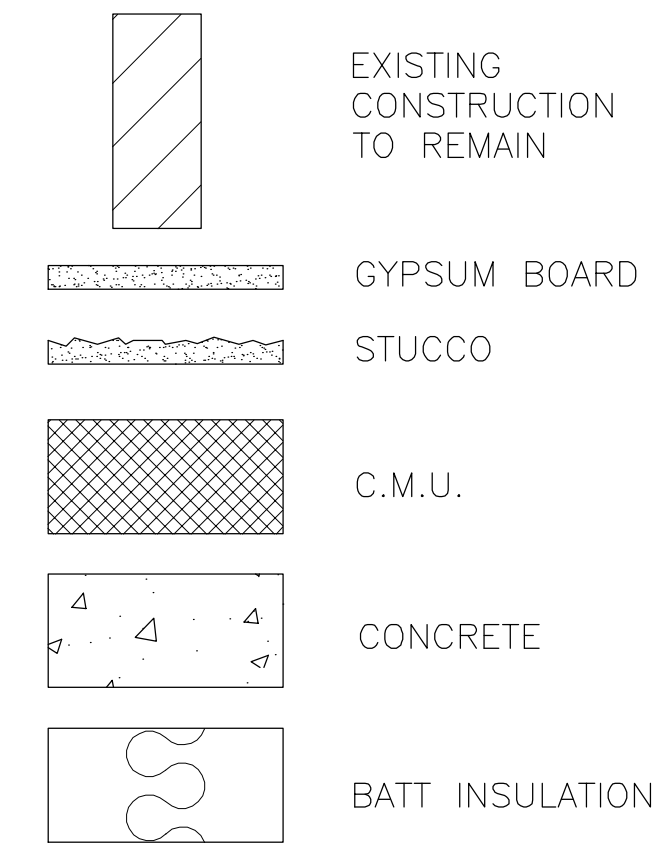
**6 WALL TYPE 6**  
2A6.3 SCALE: 1 1/2" = 1'-0"



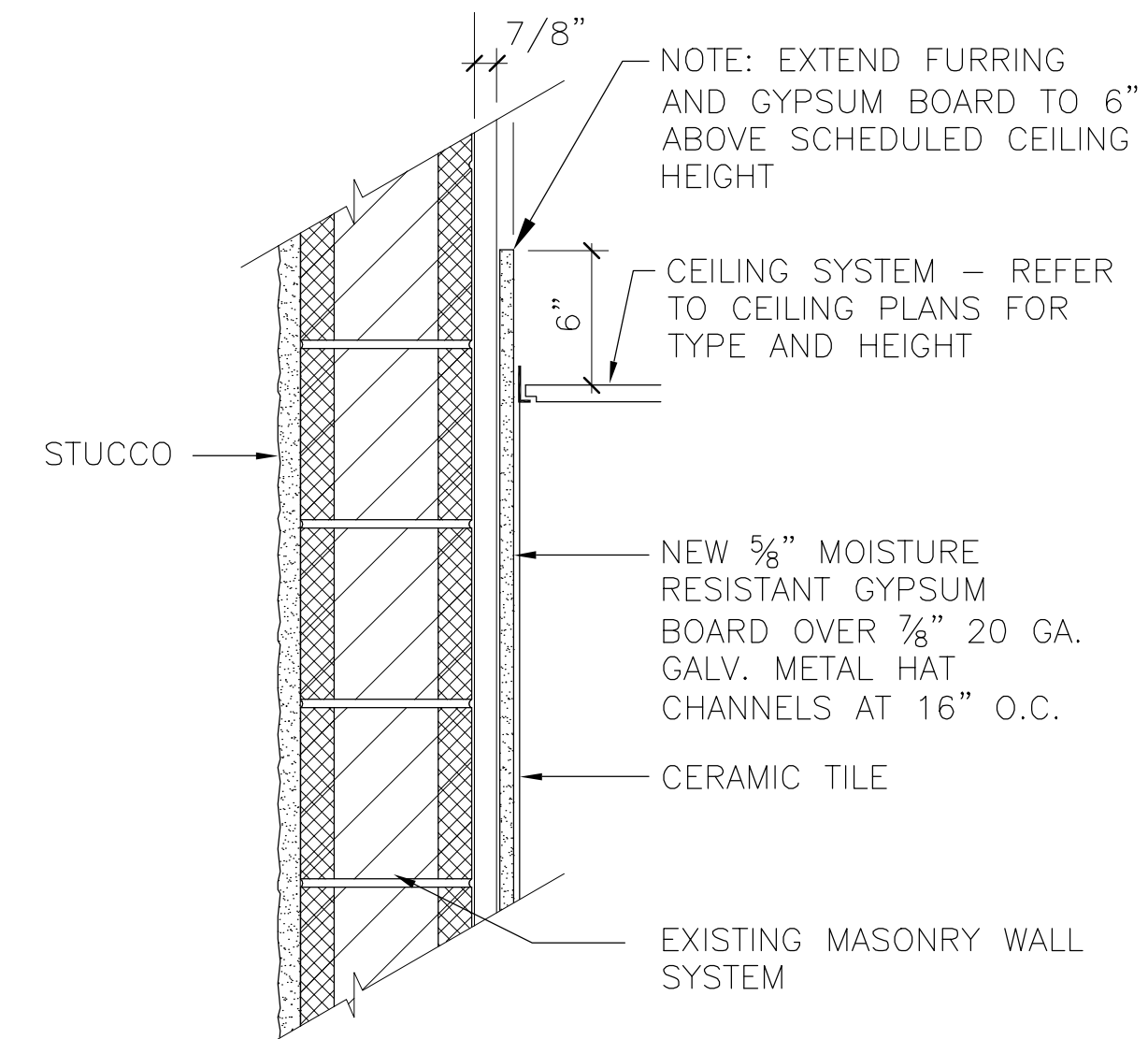
**5 WALL TYPE 5**  
2A6.3 SCALE: 1 1/2" = 1'-0"



**12 WALL TYPE 12**  
2A6.3 SCALE: 1 1/2" = 1'-0"



**11 WALL TYPE MATERIAL LEGEND**  
2A6.3 SCALE: N.T.S.



**10 WALL TYPE 10**  
2A6.3 SCALE: 1 1/2" = 1'-0"

R E V I S I O N S	
DATE	DESCRIPTION
12/8 2008	ISSUED FOR BIDDING

URS Corporation Southern  
7650 West Courtney  
Campaill Causeway  
Tampa, FL 33607-1462  
No. 0000002  
TheTransect-U\_Short-ATR\_0922853

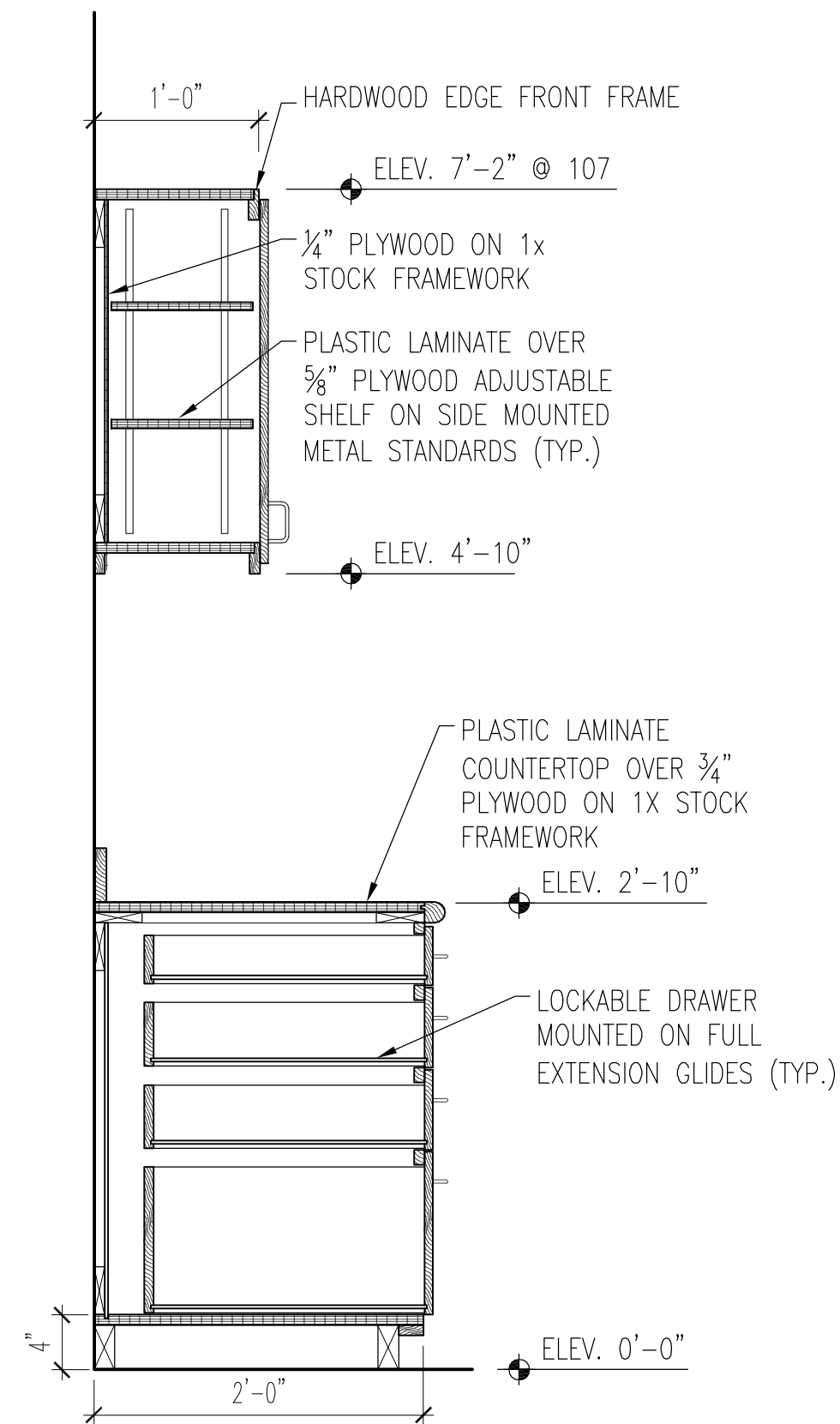
DR: BT  
CK: BT  
APPR'D BY:

SCALE:	AS NOTED
DATE:	NOVEMBER 2008

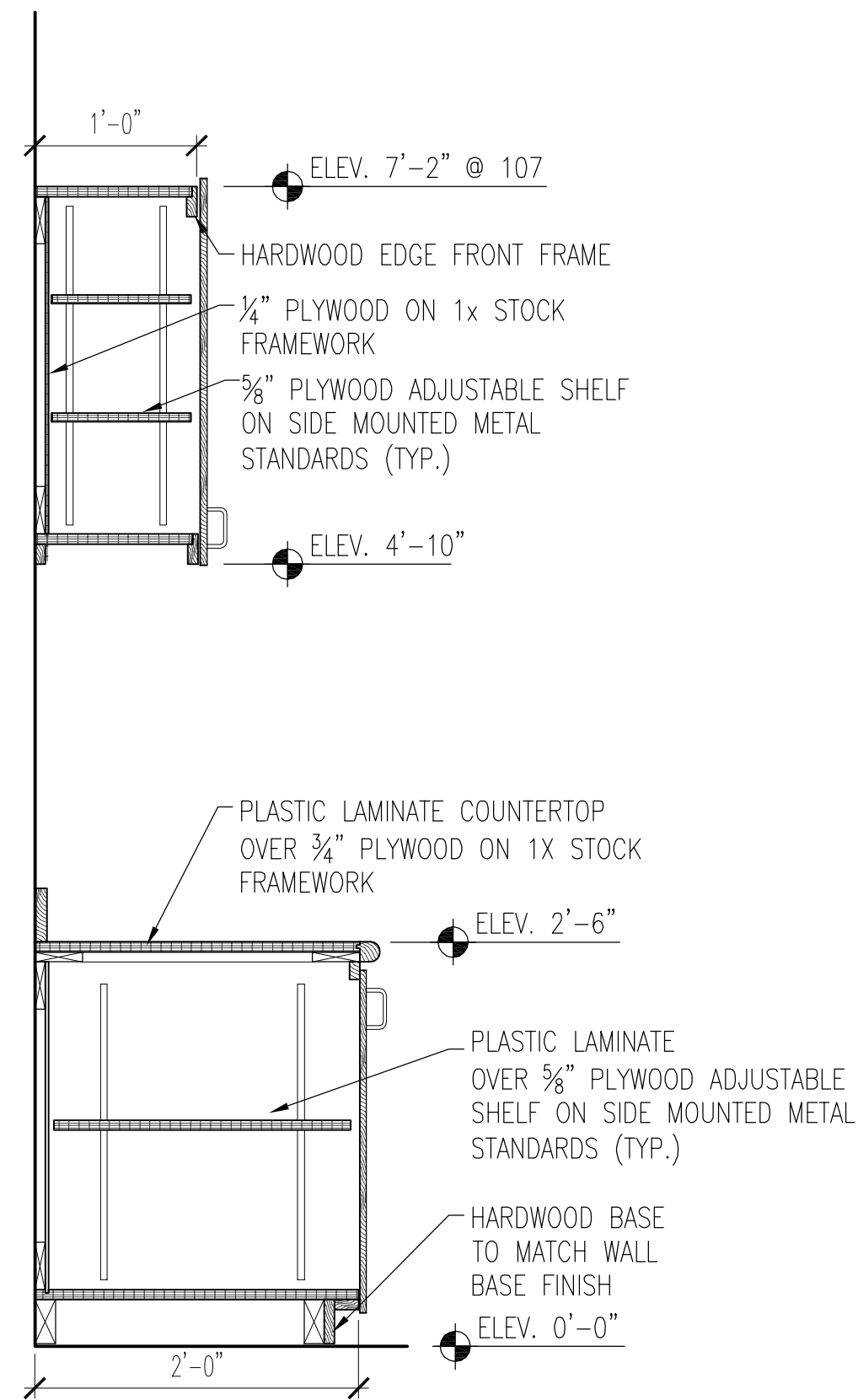
**MANATEE COUNTY S. W. R. W. T. P.**  
ADMINISTRATION BUILDING RENOVATIONS

**WALL TYPE DETAILS**

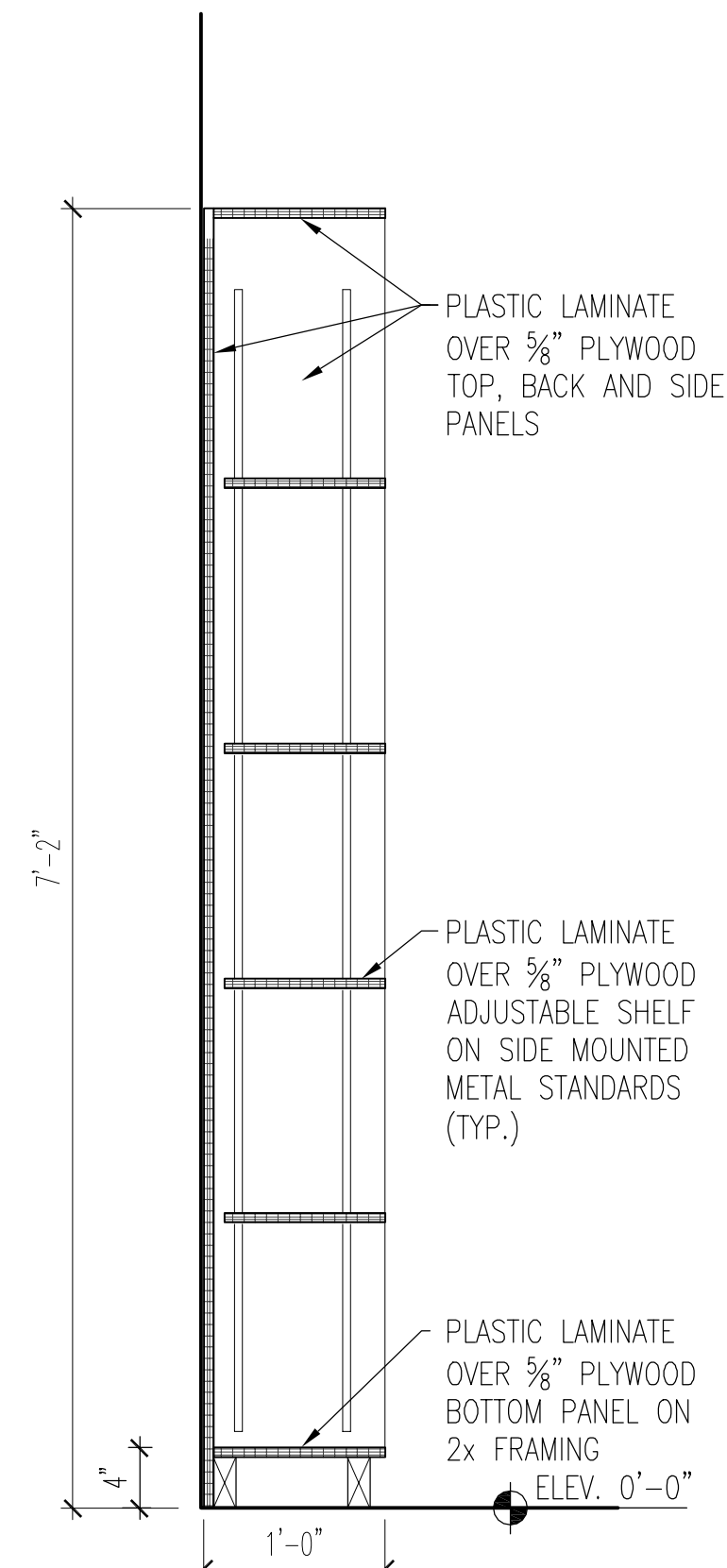
SHEET NO.
<b>2A6.3</b>



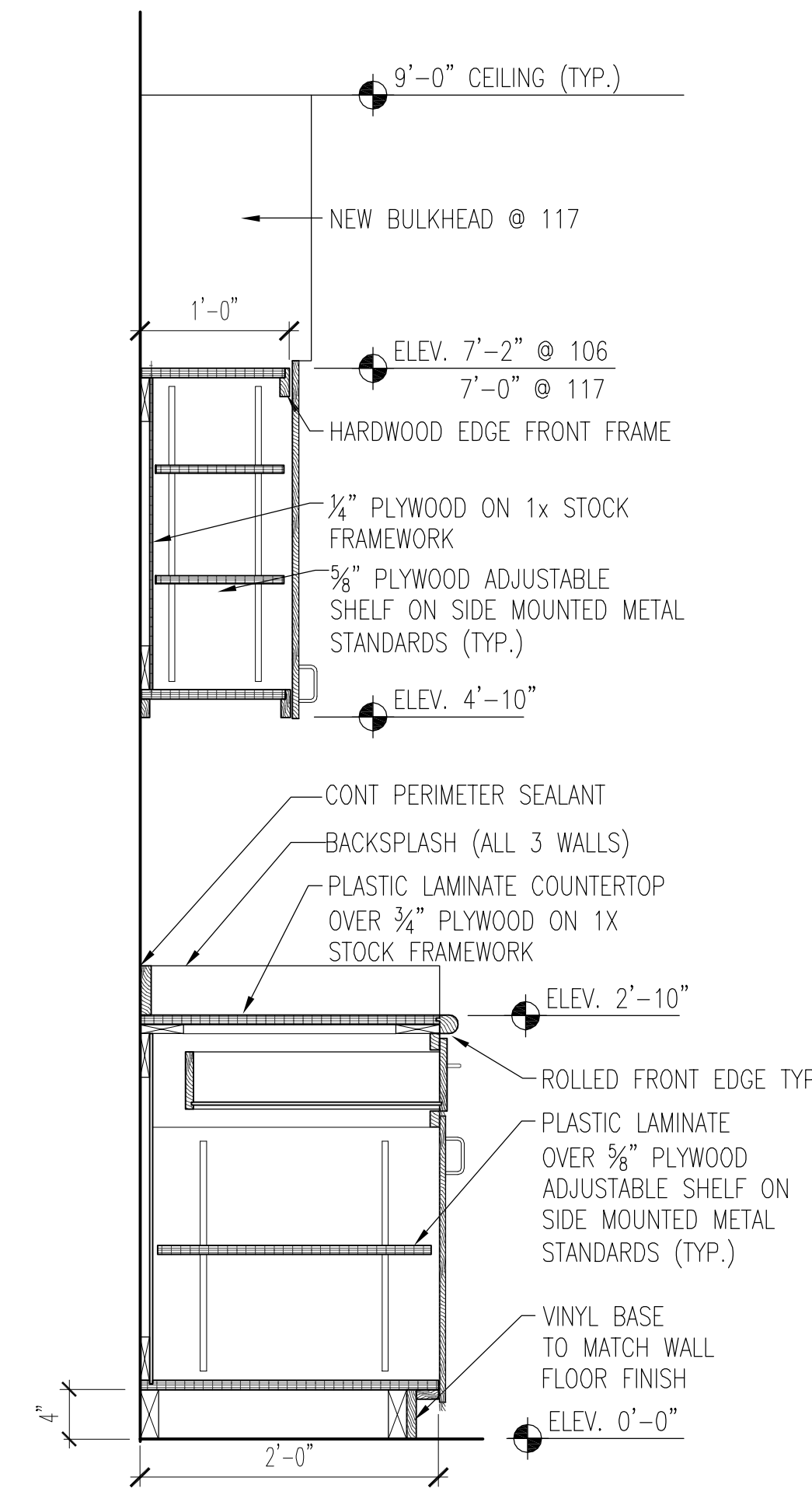
**9** MILLWORK SECTION ROOM 107  
2A8.0 SCALE: 1" = 1'-0"



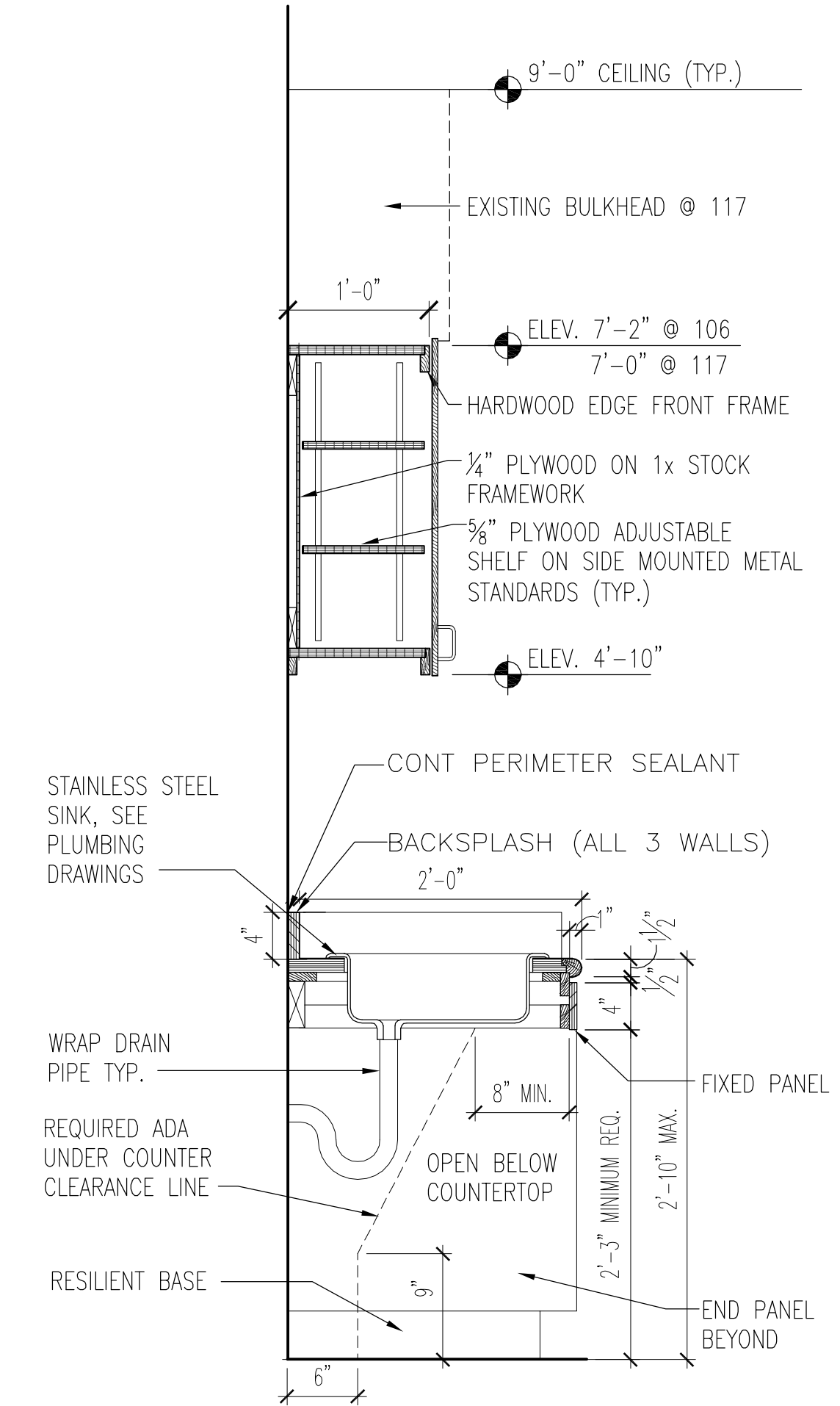
**8** MILLWORK SECTION ROOM 107  
2A8.0 SCALE: 1" = 1'-0"



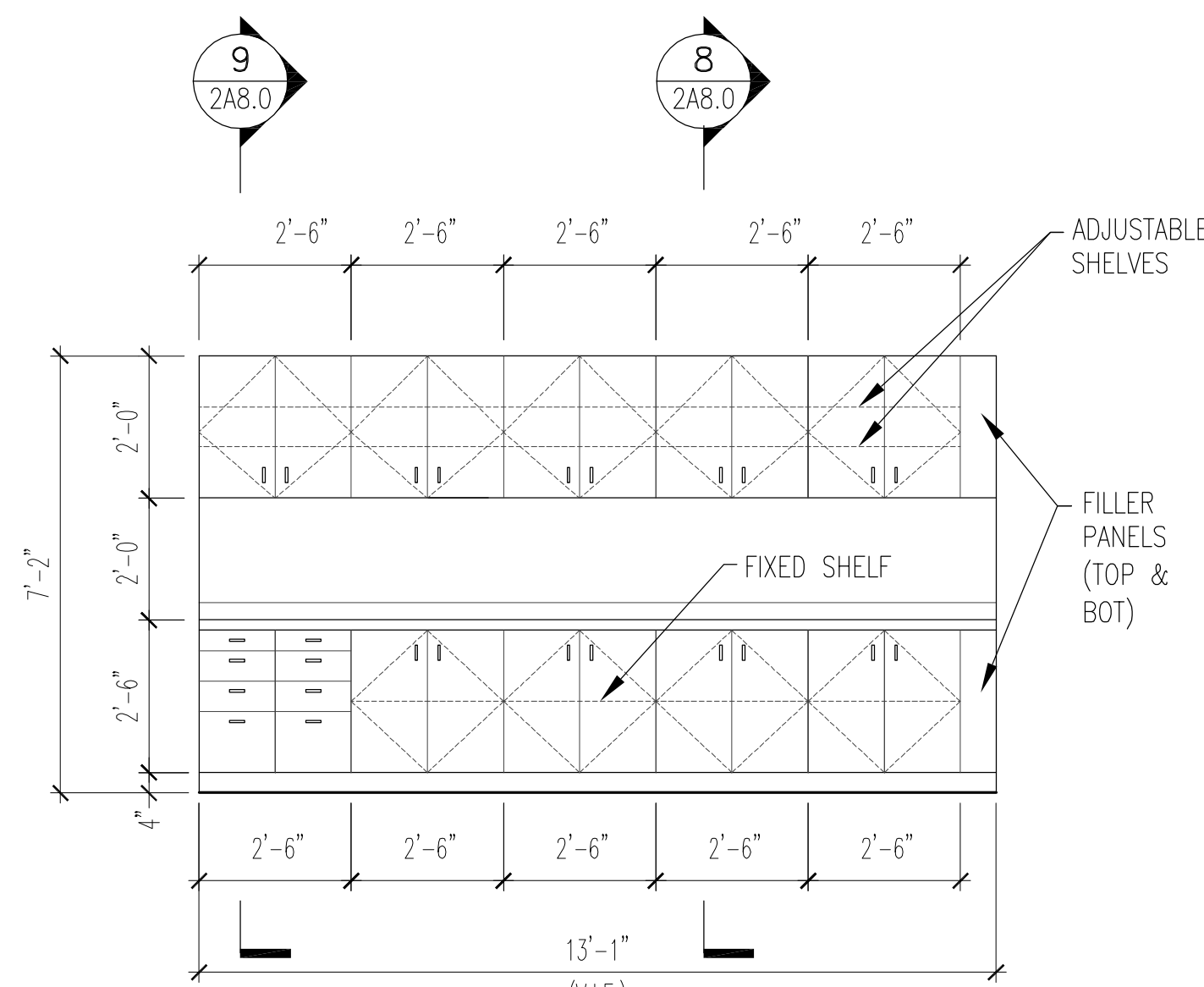
**7** MILLWORK SECTION ROOM 113  
2A8.0 SCALE: 1" = 1'-0"



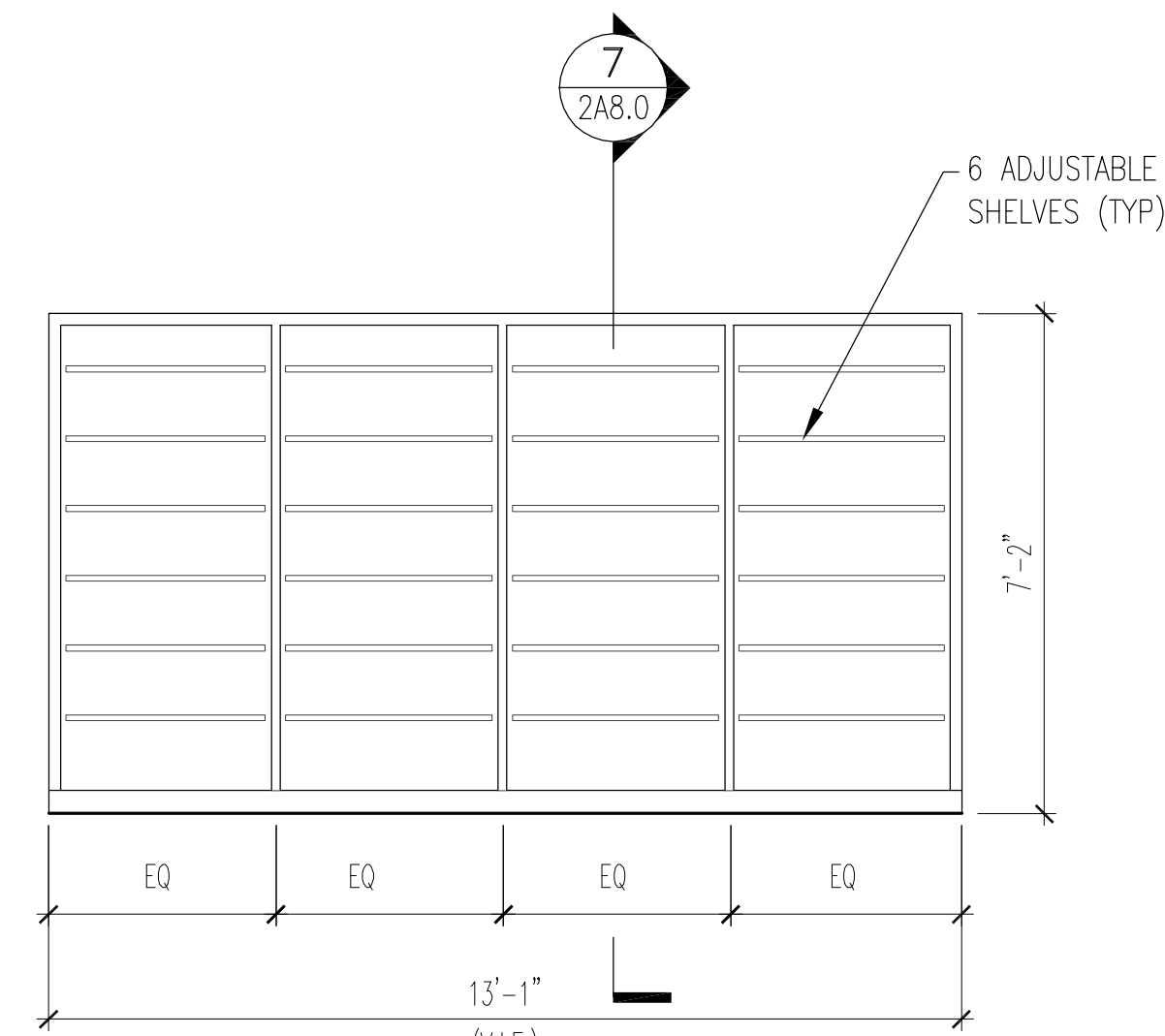
**6** MILLWORK SECTION ROOMS 106 & 117  
2A8.0 SCALE: 1" = 1'-0"



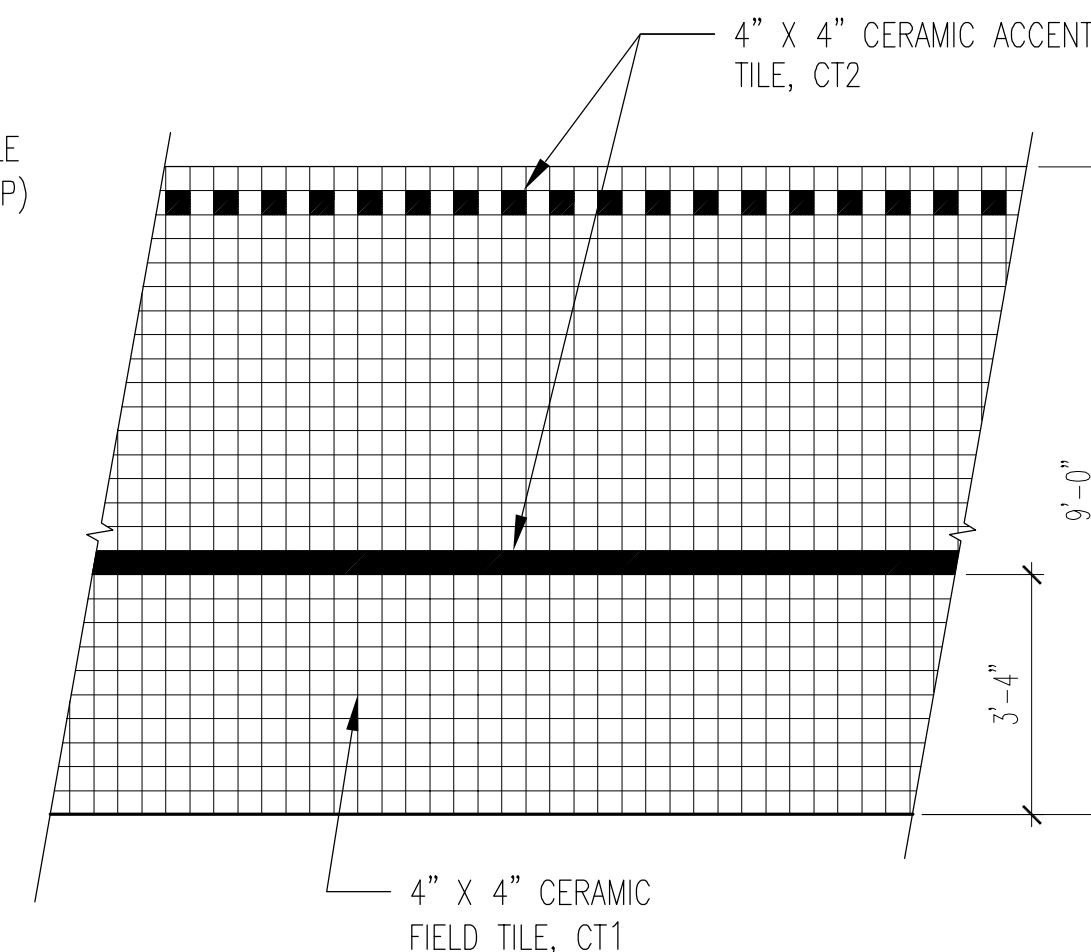
**5** MILLWORK SECTION ROOMS 106 & 117  
2A8.0 SCALE: 1" = 1'-0"



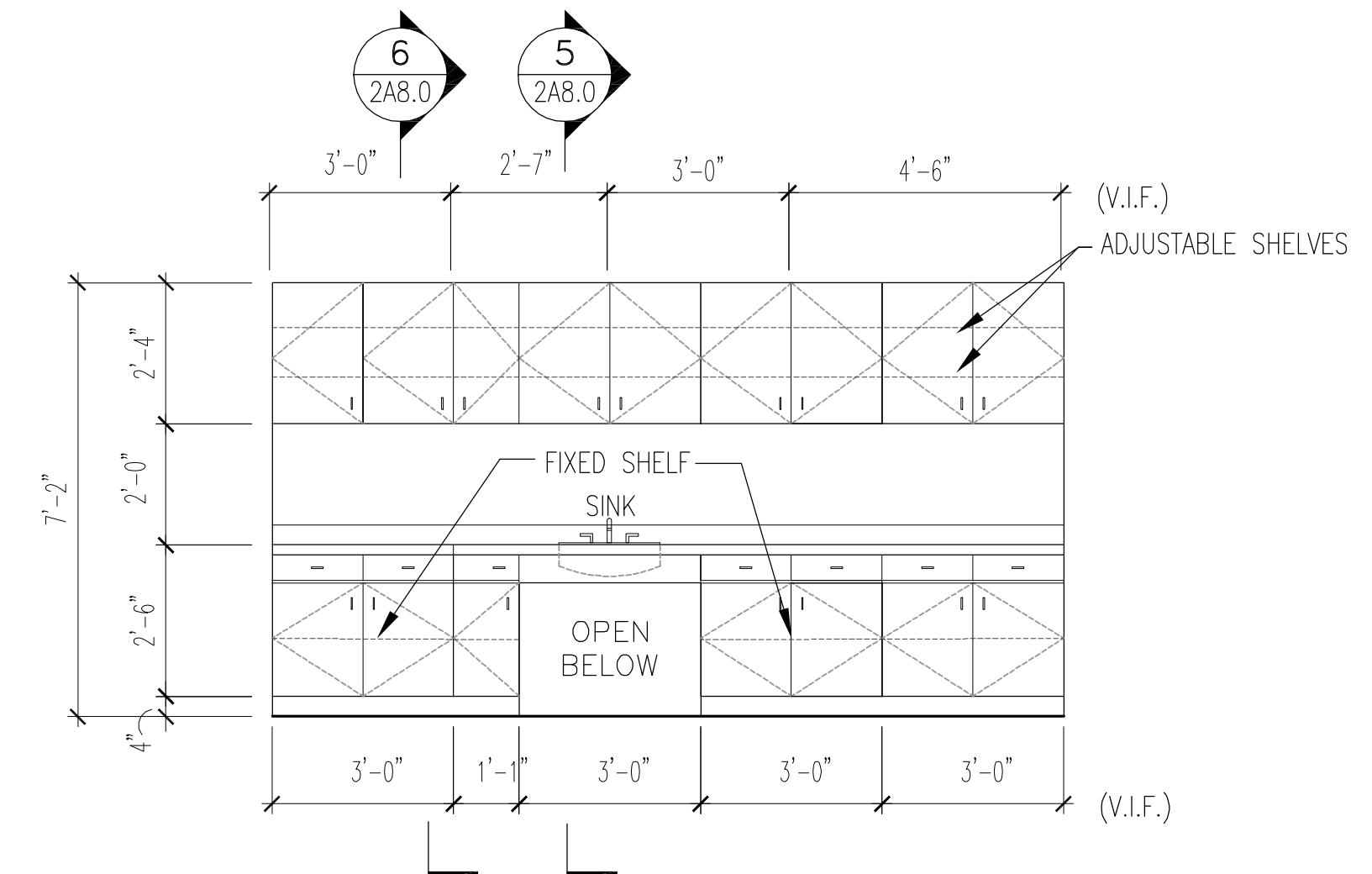
**4** INTERIOR ELEVATION COPY ROOM 107  
2A8.0 SCALE: 3/8" = 1'-0"



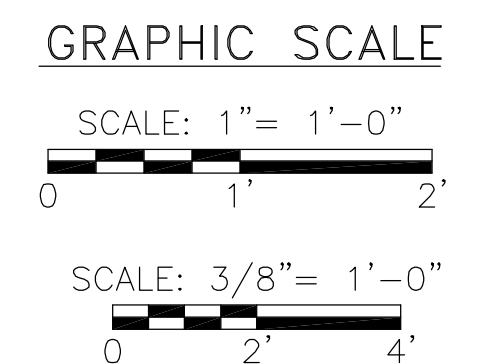
**3** INTERIOR ELEVATION LIBRARY - 113  
2A8.0 SCALE: 3/8" = 1'-0"



**2** INTERIOR TILE ELEVATION IN OPS ROOM 109 & STORAGE ROOM 111  
2A8.0 SCALE: 3/8" = 1'-0"



**1** INTERIOR ELEVATION CONFERENCE ROOM 106  
2A8.0 SCALE: 3/8" = 1'-0"



REVISIONS	DESCRIPTION
DATE	ISSUED FOR BIDDING
12/8/2008	

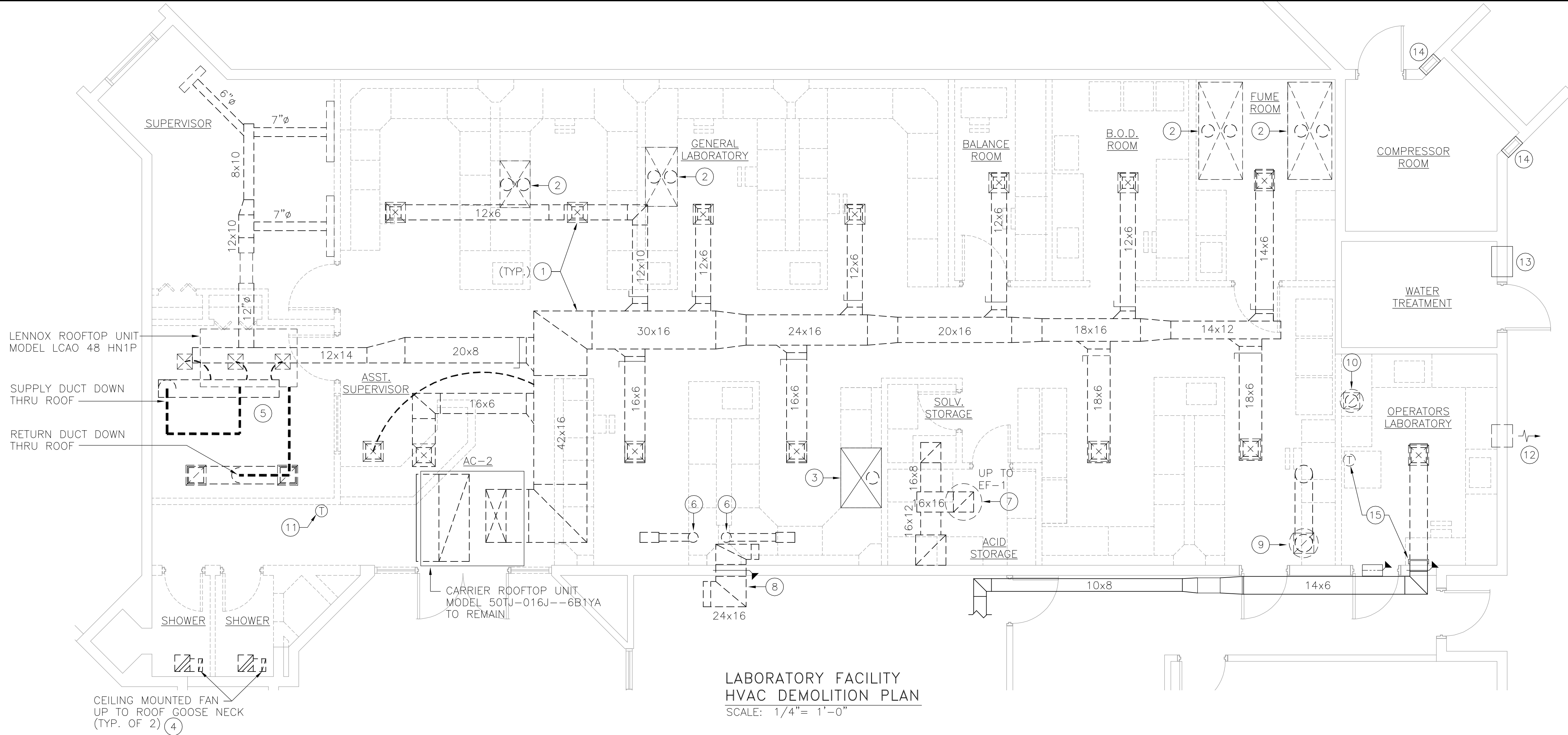
URS Corporation Southern  
7650 West Courtney  
Campbell Causeway  
Tampa, FL 33607-1462  
No. 0000002  
Terrence J. Short AR No. 92283

DR: BY: CK: BY: APPR'D BY:

SCALE: AS NOTED	DATE: NOVEMBER 2008
-----------------	---------------------

**MANATEE COUNTY S. W. R. W. T. P.**  
**ADMINISTRATION BUILDING RENOVATIONS**  
**INTERIOR ELEVATIONS & DETAILS**  
**MILLWORK SECTIONS & DETAILS**

SHEET NO.
<b>2A8.0</b>



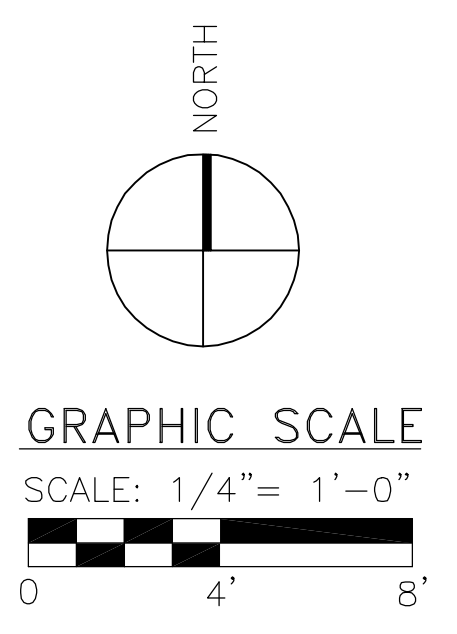
**LABORATORY FACILITY  
HVAC DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"

**HVAC GENERAL DEMOLITION NOTES:**

1. IN GENERAL, THE DRAWINGS OF EXISTING SYSTEMS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED FOR FABRICATION. SIZES AND LOCATIONS OF ALL ALL EXISTING HVAC EQUIPMENT, DUCTWORK, PIPING, ETC., AS SHOWN, ARE TO THE BEST OF OUR KNOWLEDGE CORRECT AND ARE PROVIDED TO ASSIST THE CONTRACTORS IN THE PREPARATION OF THEIR BID.
2. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DRAWINGS AND SPECIFICATIONS WITH EACH OTHER AND ACTUAL FIELD CONDITIONS AND SHALL NOTIFY THE OWNER/ENGINEER OF ANY ERROR, INCONSISTENCY, OR OMMISION DISCOVERED BEFORE SUBMITTAL OF BID.
3. THE CONTRACTOR SHALL DISPOSE OF OR RECYCLE REFRIGERANT IN ACCORDANCE WITH LOCAL AND FEDERAL REGULATIONS.
4. ALL ROOF MOUNTED EQUIPMENT AND ASSOCIATED ROOF PENETRATIONS SHALL REMAIN UNLESS INDICATED OTHERWISE.
5. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL ROOF PATCHING REQUIRED FOR THE EXISTING BUILT-UP ROOFING SYSTEM IN CONJUNCTION WITH THE REMOVAL AND INSTALLATION OF ROOFTOP MECHANICAL EQUIPMENT. ALL PATCHING WORK SHALL BE IN ACCORDANCE WITH THE ROOFING MANUFACTURER'S PRINTED INSTRUCTIONS AND CURRENT RECOMMENDATIONS. THE COMPLETED PATCHING WORK SHALL RESULT IN MAINTAINING THE WATERTIGHT INTEGRITY OF THE ROOFING SYSTEM.
6. THE CONTRACTOR SHALL VISIT THE PROJECT DEMOLITION AREA, BECOME FAMILIAR WITH THE SCOPE AND EXTENT OF ALL PHASE TWO WORK, INCLUDING WORK ABOVE THE ACOUSTICAL CEILINGS AND ON THE ROOF TOP, PRIOR TO SUBMITTING THEIR BIDS SO AS TO INCLUDE THE COST FOR THE ENTIRE SCOPE OF WORK IN THE BID PROPOSAL. CONTRACTOR WILL CONTINUE DEMOLITION TO THE OWNER'S SATISFACTION INCLUDING ALL ITEMS SHOWN AND THOSE DISCOVERED AT NO ADDITIONAL COST TO OWNER.
7. ALL EQUIPMENT, HOODS AND FANS SHALL BE TURNED OVER TO THE OWNER. ALL OTHER DEMOLITION ITEMS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION, CLEANING AND REUSE AND/OR RESTART OF ALL MATERIALS AND EQUIPMENT INDICATED FOR REUSE. (REFINISHING, REINSTALLATION AND RESTARTING.)

**HVAC DEMOLITION KEYED NOTES:**

- ① REMOVE MAIN AND BRANCH DUCTS AND SUPPLY/RETURN DIFFUSERS AS INDICATED. COORDINATE SCOPE OF DEMOLITION WITH HVAC CONSTRUCTION PLAN 2M2.1
- ② ROOF MOUNTED COMBINATION SUPPLY/EXHAUST FAN UNIT SERVING CHEMICAL FUME HOOD IN LAB. CAREFULLY REMOVE ROOF MOUNTED FAN UNIT AND FUME HOOD AND DELIVER TO OWNER. EXISTING ROOF EQUIPMENT CURBS SHALL REMAIN AND BE CAPPED. PROVIDE GALVANIZED SHEET METAL CAP, INSULATE, ANCHOR, AND SEAL.
- ③ REMOVE COMBINATION FAN AND FUME HOOD AS INDICATED IN NOTE 2. RELOCATE AS INDICATED ON HVAC CONSTRUCTION PLAN 2M2.1.
- ④ REMOVE CEILING MOUNTED EXHAUST FAN AND EXHAUST DUCT. CAP EXHAUST DUCT BELOW ROOF. GOOSE NECKS WITH ROOF PENETRATION TO REMAIN.
- ⑤ CAREFULLY REMOVE LENNOX ROOF TOP PACKAGE UNIT AND DELIVER TO OWNER. REMOVE ALL ASSOCIATED DUCT, SUPPLY/RETURN DIFFUSERS, CONTROLS, ETC. CAP EQUIPMENT CURBS AND ROOF PENETRATIONS AS INDICATED IN NOTE 2. SUPPLY DUCT ROOF PENETRATION SHALL REMAIN FOR INSTALLATION OF NEW EXHAUST FAN. COORDINATE WITH NEW HVAC PLAN 2M2.1.
- ⑥ REMOVE EXHAUST FAN AND EXHAUST DUCT. CAP EXHAUST DUCT BELOW ROOF. EXISTING ROOF PENETRATION AND WATER PROOFING TO REMAIN.
- ⑦ REMOVE ROOF MOUNTED EXHAUST FAN. REMOVE ALL ASSOCIATED DUCT, GRILLES, CONTROLS, ETC. CAP EQUIPMENT CURB AS INDICATED IN NOTE 2.
- ⑧ REMOVE TRANFER DUCT WITH FIRE DAMPER. PATCH WALL TO MATCH EXISTING WALL CONSTRUCTION.
- ⑨ REMOVE ROOF MOUNTED EXHAUST FAN. REMOVE ALL ASSOCIATED DUCT, GRILLES, CONTROLS, AND ROOFCURB. ROOF PENETRATION SHALL BE RE-USED AS INDICATED ON NEW HVAC CONSTRUCTION PLAN 2M2.1
- ⑩ REMOVE ROOF MOUNTED EXHAUST FAN. REMOVE ALL ASSOCIATED DUCT, GRILLES, CONTROLS, AND ROOFCURB. ROOF PENETRATION SHALL BE RE-USED AS INDICATED ON NEW HVAC CONSTRUCTION PLAN 2M2.1
- ⑪ REMOVE THERMOSTAT AND PROVIDE NEW AS SPECIFIED AT LOCATION INDICATED ON HVAC CONSTRUCTION PLAN 2M2.1.
- ⑫ REMOVE THROUGH WALL EXHAUST FAN. PATCH WALL TO MATCH EXISTING WALL CONSTRUCTION.
- ⑬ THROUGH WALL AIR CONDITIONING UNIT TO REMAIN.
- ⑭ WALL VENTILATION LOUVER TO REMAIN.
- ⑮ PATCH, SEAL AND INSULATE ABANDONED DUCT AIR TIGHT. REMOVE ROOM THERMOSTAT AND CONTROL WIRING. TERMINATE AT CONTROL PANEL.



REVISIONS	
DATE	DESCRIPTION
12/8 2008	ISSUED FOR BIDDING

URS Corporation Southern  
7650 West Courtney  
Cannell Causeway  
Tampa, FL 33607-1462  
No. 0000002  
John T. Rector, P.E. 53292

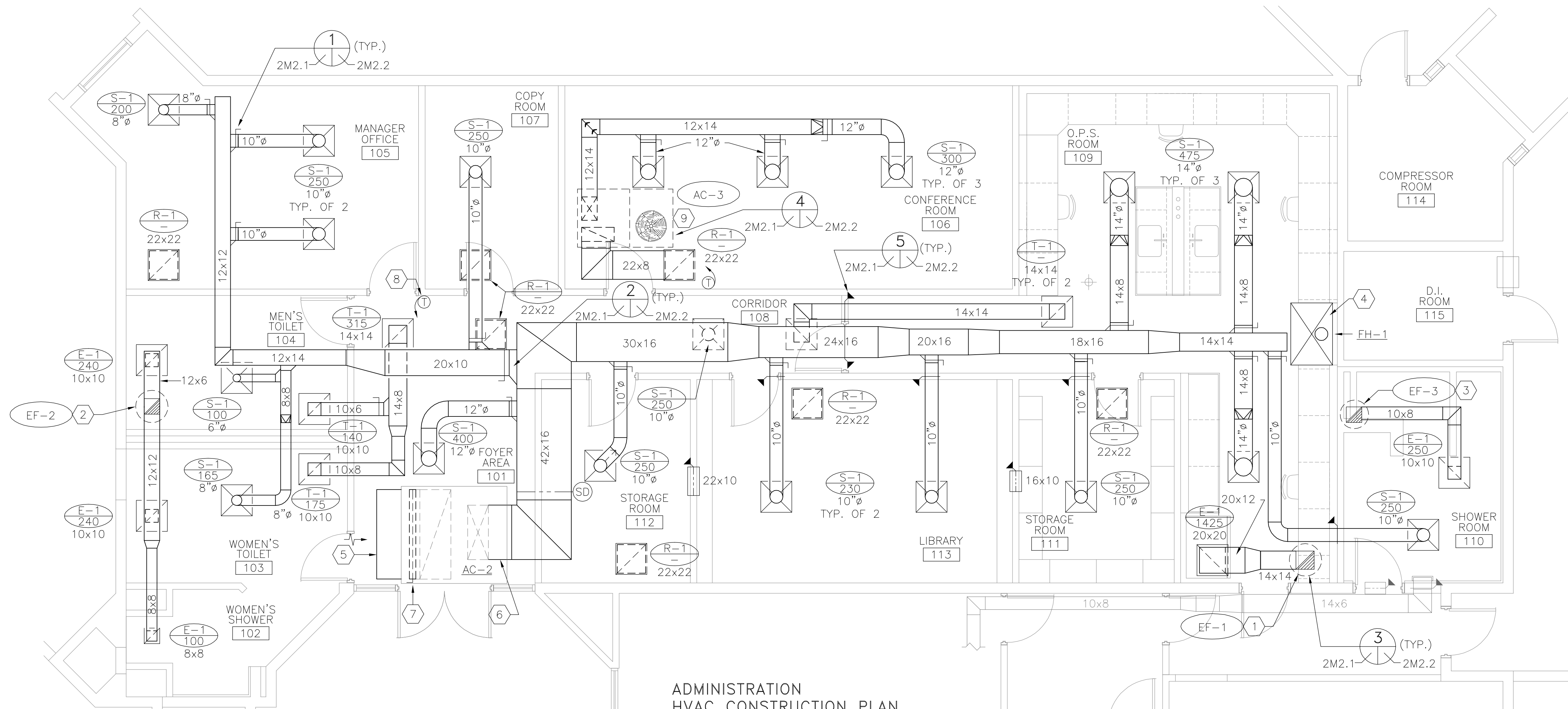
DR:BY: MUJ  
CK:BY: JTR  
APPR'D BY: JTR

SCALE: AS NOTED  
DATE: NOVEMBER 2008

**MANATEE COUNTY S. W. R. W. T. P.  
ADMINISTRATION BUILDING RENOVATIONS**

**LABORATORY FACILITY  
HVAC DEMOLITION PLAN**

SHEET NO.  
**2M2.0**



**ADMINISTRATION  
HVAC CONSTRUCTION PLAN**  
SCALE: 1/4" = 1'-0"

**HVAC GENERAL CONSTRUCTION NOTES:**

1. DUCT SIZES SHOWN ARE CLEAR INSIDE FREE AREA SHEET METAL SIZES.
2. VERIFY COLLAR SIZES ON ALL AIR TERMINALS, EQUIPMENT INLETS AND OUTLETS. TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE TRANSITIONS AT EQUIPMENT CONNECTIONS.
3. SEE REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING OUTLETS.
4. CONTRACTOR SHALL VERIFY CLEARANCE SPACE AVAILABLE, OFFSETS REQUIRED, STRUCTURAL OPENINGS, AND WORK BY OTHER TRADES PRIOR TO FABRICATION OF DUCTWORK. SUBMIT SHOP DRAWINGS ON DUCTWORK LAYOUT. COORDINATE WITH ROOF TRUSSES/STRUCTURE. PRESSURE TEST ALL DUCTWORK FOR LEAKS, SEE SPECIFICATIONS.
5. PROVIDE DUCT FLEX CONNECTIONS FOR ALL UNITS. EXTERNALLY INSULATE FLEXIBLE CONNECTIONS.
6. PROVIDE FULL SIZE INSULATED COPPER CONDENSATE DRAINS FROM ALL UNITS TO DISPOSAL POINT INDICATED ON THE DRAWINGS.
7. PROVIDE A TRAP ON ALL CONDENSATE DRAIN OUTLETS. SLOPE ALL CONDENSATE DRAIN PIPING 1/8" INCH PER FOOT.
8. CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING AND DUCTWORK SUCH THAT MANUFACTURERS' RECOMMENDED CLEARANCES ARE MET FOR ALL ACCESS PANELS, COILS, MOTORS, FANS, BELTS, FILTERS, AND AIR INTAKES.
9. PROVIDE ACCESS PANELS IN ALL NON-ACCESSIBLE CONSTRUCTIONS (INCLUDING CEILING, WALLS, ETC.) SIZED AND LOCATED AS REQUIRED TO PROVIDE PROPER SERVICE ACCESS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION FOR ALL HVAC EQUIPMENT INCLUDING DAMPERS AND VALVES.
10. ALL ROOF MOUNTED EQUIPMENT MUST ADHERE TO CURRENT HURRICANE WIND LOADING CODES REGARDING EQUIPMENT TIE-DOWN AND WIND RESISTANCE. PROVIDE TIE-DOWN STRAPS OR STAINLESS STEEL CABLE GUY WIRES, THIMBLES AND TURNBUCKLES SECURED TO STAINLESS STEEL EYEBOLTS FASTENED TO CONCRETE DECK. COORDINATE ROOF REPAIR WORK WITH ARCHITECTURAL PLANS AND DETAILS.

**AC-2 SEQUENCE OF OPERATION**

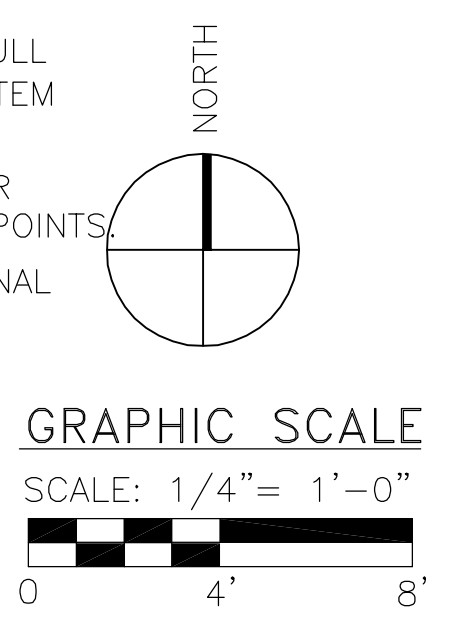
- UN-OCCUPIED MODE:**  
OUTSIDE AIR INTAKE DAMPER SHALL BE CLOSED.  
INTERLOCKED EXHAUST FANS (EF-1, EF-2 AND EF-3) SHALL BE DE-ENERGIZED.  
UNIT FAN AND COMPRESSOR SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE.
- OCCUPIED MODE:**  
OUTSIDE AIR INTAKE DAMPER SHALL BE OPEN.  
INTERLOCKED EXHAUST FANS (EF-1, EF-2 AND EF-3) SHALL BE ENERGIZED.  
UNIT FAN SHALL RUN CONTINUOUSLY AND COMPRESSOR SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE.

**AC-3 SEQUENCE OF OPERATION**

- UN-OCCUPIED MODE:**  
OUTSIDE AIR INTAKE DAMPER SHALL BE CLOSED.  
UNIT FAN AND COMPRESSOR SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE.
- OCCUPIED MODE:**  
OUTSIDE AIR INTAKE DAMPER SHALL BE OPEN.  
UNIT FAN SHALL RUN CONTINUOUSLY AND COMPRESSOR SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE.

**HVAC CONSTRUCTION KEYED NOTES:**

- ① 14x14 EXHAUST DUCT UP TO ROOF EXHAUST FAN EF-1. COORDINATE LOCATION WITH EXISTING ROOF PENETRATION.
- ② 12x12 EXHAUST DUCT UP TO ROOF EXHAUST FAN EF-2. COORDINATE LOCATION WITH EXISTING ROOF PENETRATION.
- ③ 10x8 EXHAUST DUCT UP TO ROOF EXHAUST FAN EF-3. COORDINATE LOCATION WITH EXISTING ROOF PENETRATION.
- ④ CONTRACTOR SHALL RELOCATE EXISTING FUME HOOD AND ROOF MOUNTED EXHAUST FAN. PROVIDE NEW ROOF CURB, ROOF PATCHING, DUCT, CONTROL WIRING, ETC. AS REQUIRED TO RESTORE OPERATION OF RELOCATED HOOD. INSTALLATION SHALL COMPLY WITH NFPA 45, 70 AND 91 REQUIREMENTS.
- ⑤ THE CONTRACTOR SHALL FABRICATE AND INSTALL OUTSIDE AIR INTAKE HOOD WITH MOTORIZED DAMPER AND REPLACEABLE CARBON FILTERS. BALANCE AC-2 AIRFLOW TO 4,500 TOTAL SUPPLY, 2,105 CFM OUTSIDE AIR.
- ⑥ PROVIDE ALL FITTINGS REQUIRED TO CONNECT NEW DUCT TO EXISTING.
- ⑦ PROVIDE NEW OPPOSED BLADE DAMPER ASSEMBLY (FULL SIZE OF OPENING) AT RETURN AIR OPENING FOR SYSTEM BALANCING.
- ⑧ PROVIDE NEW 7 DAY PROGRAMMABLE THERMOSTAT FOR AC-2. SEE SEQUENCE OF OPERATION FOR CONTROL POINTS.
- ⑨ DISCHARGE CONDENSATE TO NEAREST ROOF DRAIN. FINAL TERMINATION IS SITE STORM SEWER.



REVISIONS	
DATE	DESCRIPTION
12/8/2008	ISSUED FOR BIDDING

URS Corporation Southern  
7650 West Courtney  
Campa, FL 33607-1462  
No. 0000002  
John T. Reitor, P.E. 55292

DRBN: MUO  
CKBY: JTR  
APPRD BY: JTR

SCALE: AS NOTED  
DATE: NOVEMBER 2008

**MANATEE COUNTY S. W. R. W. T. P.**  
**ADMINISTRATION BUILDING RENOVATIONS**  
**ADMINISTRATION HVAC CONSTRUCTION PLAN**

SHEET NO.

**2M2.1**

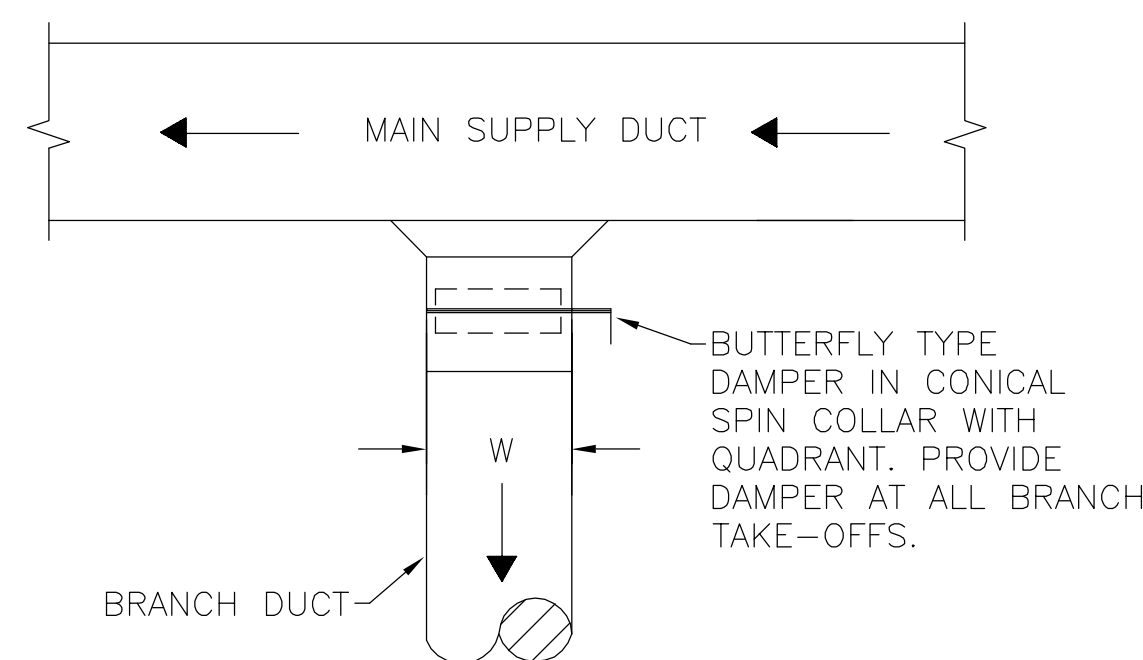
### FAN SCHEDULE

UNIT NO. (MARK)	CFM	EXT. S.P. (IN H2O)	MOTOR		FAN RPM	MAX. SONES	DRIVE	TYPE	DESIGN MANUFACTURER	MODEL	NOTES
			V/PH/Hz	HP							
EF-1	1425	0.375	120/1/60	1/3	1353	11.7	BELT	ROOF CENTRIFUGAL	GREENHECK	GB-121-3	1,2,3,4
EF-2	580	0.5	120/1/60	1/6	1503	9.0	BELT	ROOF CENTRIFUGAL	GREENHECK	GB-080-6	1,2,3,4
EF-3	250	0.375	120/1/60	1/20	1323	5.7	DIRECT	ROOF CENTRIFUGAL	GREENHECK	G-085-D	1,2,3,4,5

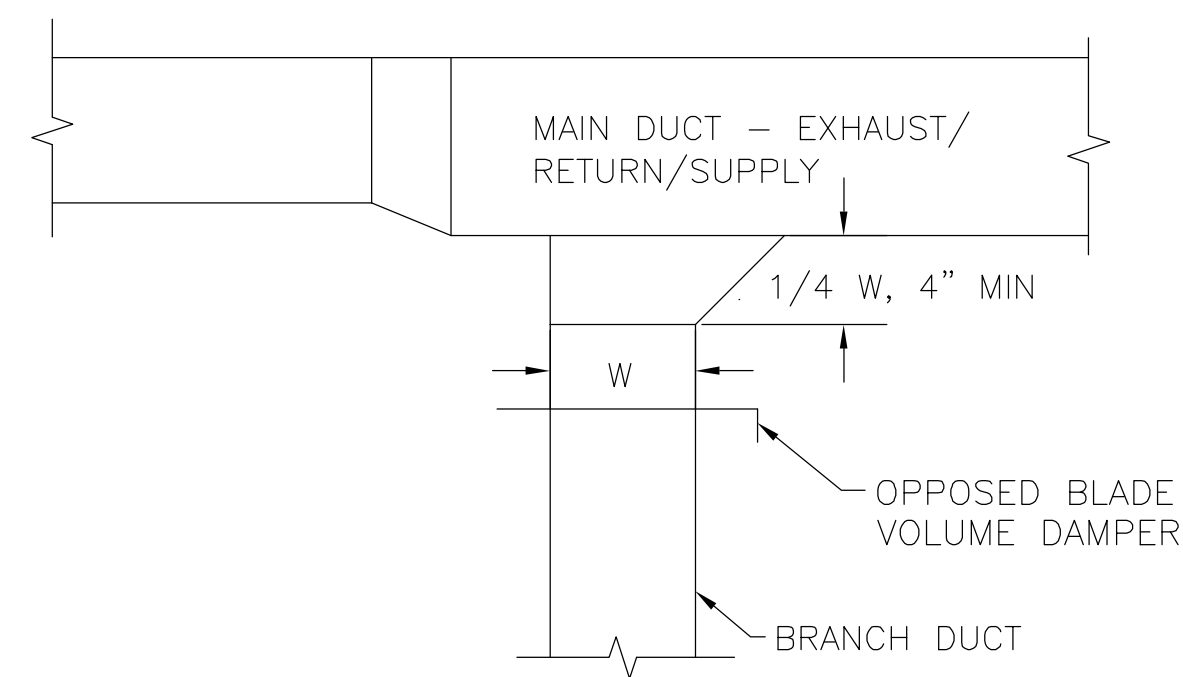
- NOTES:
1. PROVIDE WITH UNIT MOUNTED DISCONNECT SWITCH.
  2. PROVIDE WITH UNIT MANUFACTURERS 14" HIGH ROOF CURB.
  3. INTERLOCK WITH AC-2.
  4. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.
  5. PROVIDE WITH SOLID STATE SPEED CONTROL.

**CONTRACTOR NOTE:**

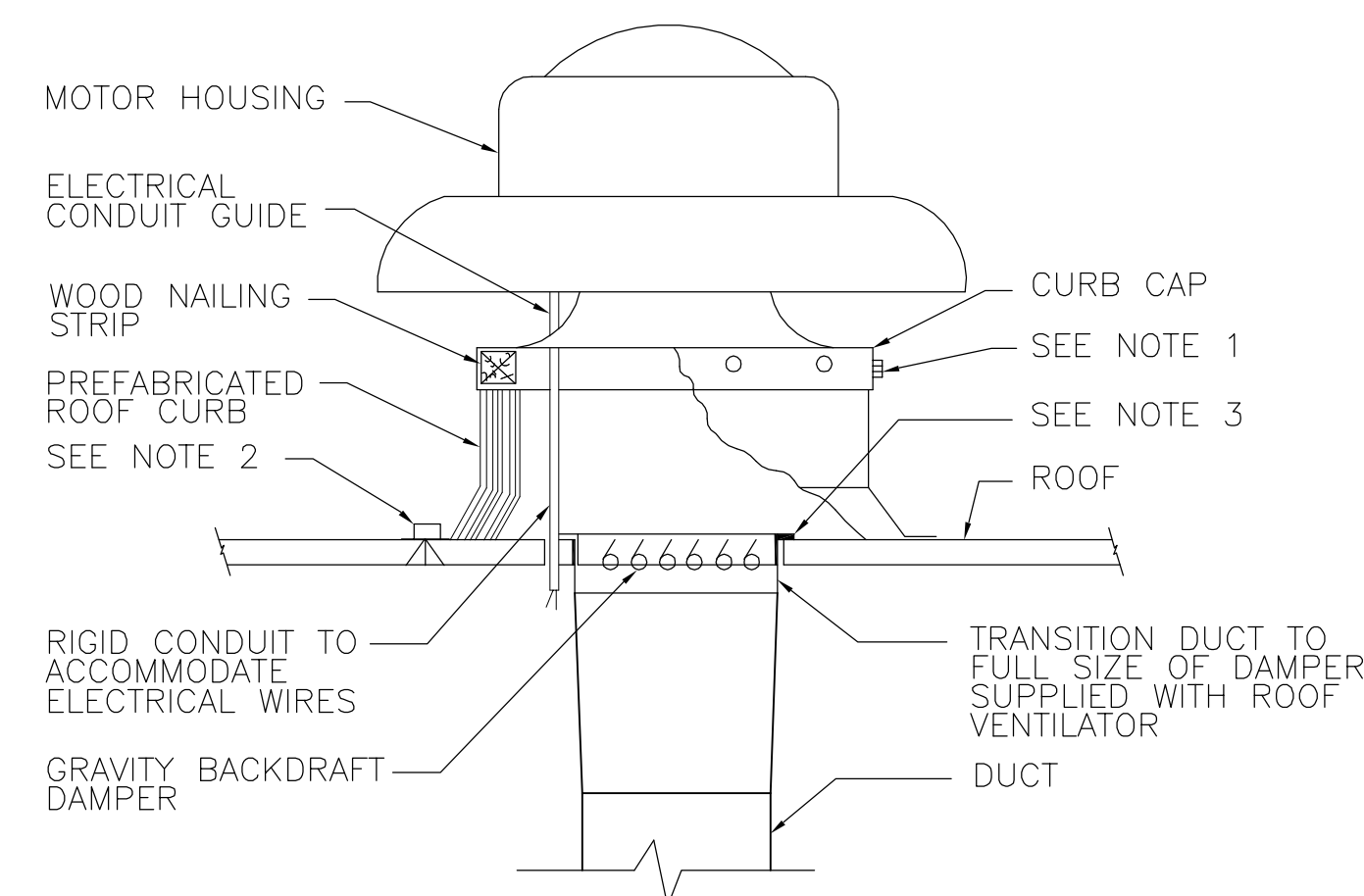
THE FOLLOWING ITEMS ARE OWNER PURCHASED, CONTRACTOR INSTALLED. COORDINATE AND VERIFY INVENTORY WITH OWNER AND PLANS PRIOR TO COMMENCEMENT OF WORK.  
EF-1  
EF-2  
AIR DISTRIBUTION DEVICES



1 TYPICAL ROUND SUPPLY BRANCH DUCT TAKE-OFF DETAIL NOT TO SCALE



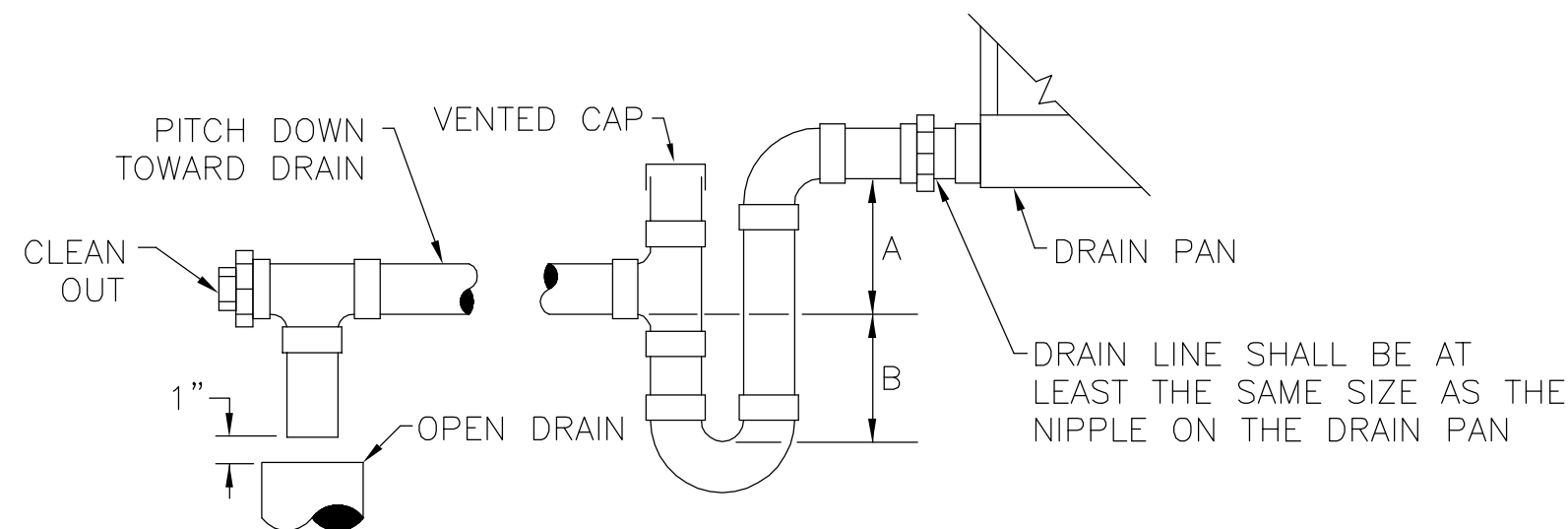
2 TYPICAL BRANCH DUCT TAKEOFF NOT TO SCALE



3 TYPICAL ROOF MOUNTED EXHAUST FAN NOT TO SCALE

NOTES:

1. SECURE CURB CAP TO WOOD NAILING STRIP WITH 3/8" CADMIUM PLATED LAG BOLTS NOT OVER 12" ON CENTER.
2. SECURE ROOF CURB, DUCTWORK AND DAMPER TO ROOF WITH EXPANSION BOLTS (CONCRETE ROOF) OR RUST RESISTANT BOLTS (METAL DECK AND BAR JOIST ROOF). REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. SIZE OF DUCT THROUGH ROOF SHALL NOT BE LARGER THAN CURB SUPPLIED WITH ROOF VENTILATOR.
4. RUN ELECTRICAL LINES THROUGH CLEARANCE HOLE PROVIDED IN GRAVITY DAMPER, THEN THROUGH VENTILATOR ELECTRICAL CONDUIT GUIDE.
5. PROVIDE WITH HURRICANE TIE DOWN POINTS AND STRAPS.



DESIGNER'S NOTE:

AHU TYPE	A	B
DRAW THRU	2" + X	X + 1"
BLOW THRU	2" MIN.	2X

WHERE X = STATIC PRESSURE IN DRAIN PAN

4 TYPICAL AIR HANDLING UNIT DRAIN TRAP NOT TO SCALE

### AIR DISTRIBUTION DEVICE SCHEDULE

MARK	SERVICE	DESCRIPTION	MATERIAL	DESIGN MANUFACTURER/ MODEL	ACCESSORIES
S-1	SUPPLY	24x24 PERFORATED MODULE ROUND NECK	ALUMINUM	TITUS/PAS-AA	① ② ③
R-1	RETURN	24x24 PERFORATED MODULE SQUARE NECK	ALUMINUM	TITUS/PAR-AA	① ② ③
E-1	EXHAUST	EGGCRATE GRILLE	ALUMINUM	TITUS/50F	① ② ③
T-1	TRANSFER	24x24 PERFORATED MODULE SQUARE NECK	ALUMINUM	TITUS/PAR-AA	① ② ③

- ① PROVIDE OPPOSED BLADE VOLUME DAMPER.  
② STANDARD BAKED-ON WHITE ENAMEL FINISH.  
③ PROVIDE 24x24 CEILING MODULE AS REQUIRED.

### DX ROOFTOP UNIT SCHEDULE

EQUIPMENT NO.	AC-3
AREA SERVED	CONF. ROOM 106
TOTAL CAPACITY (BTU/HR)	46,048
SENSIBLE CAPACITY (BTU/HR)	32,901
MINIMUM SYSTEM SEER/EER/IPLV	13.25/11.3/-
TOTAL SUPPLY AIR FLOW (CFM)	900
OUTSIDE AIR FLOW (CFM)	150
AIR TEMP. (°F) DB/WB	ENTERING 77.6/65.7 LEAVING 56.0/54.7
EXTERNAL STATIC PRESSURE DROP (IN. W.G.)	0.5
FILTER TYPE	2"/30% DISP.
BLOWER FAN TYPE	FC
BLOWER FAN HORSEPOWER - FLA (AMPS)	1.5 - 4.9
HEATER SIZE (KW) - STAGES	4.9-1
COMPRESSOR NO./RLA (AMPS)	1/10.3
CONDENSER FAN NO./FLA (FLA)	1/0.7
MCA/MOCP (AMPS)	23.1/25
ELEC. SERVICE (VOLTS/PHASE/HERTZ)	208/3/60
REFERENCE MANUFACTURER	CARRIER
REFERENCE MODEL NO.	50HE-004
WEIGHT (LBS.)	585
NOTES	1-9

NOTES:

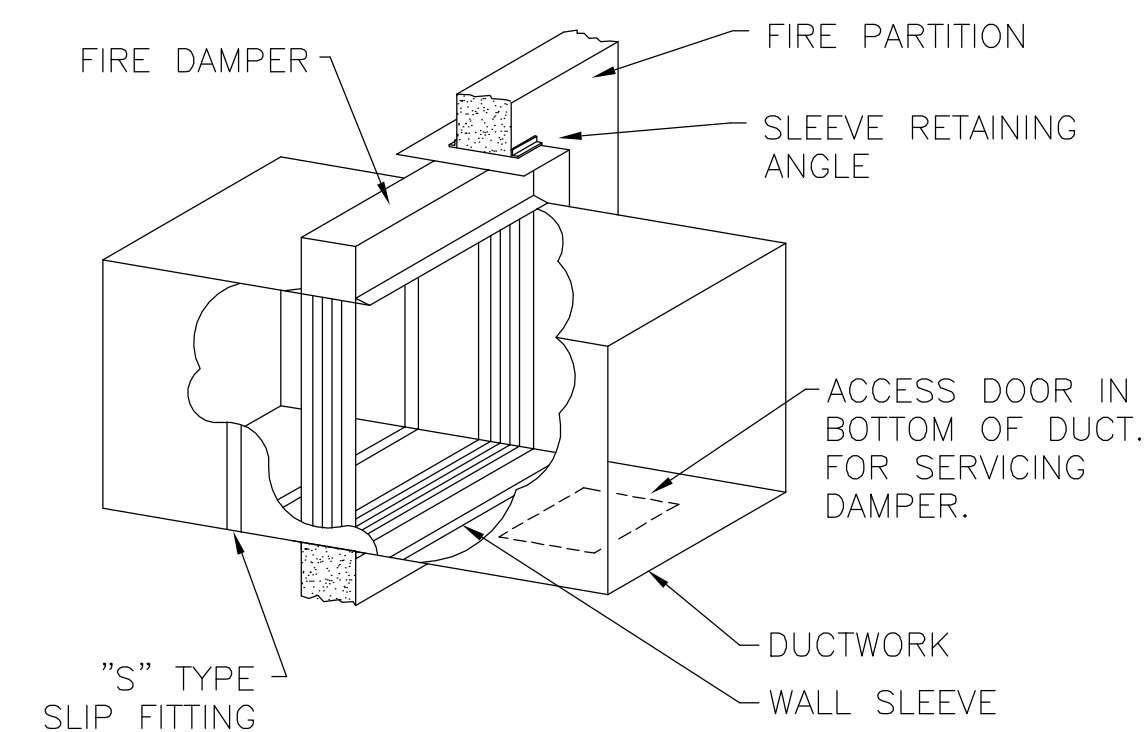
1. PROVIDE 2"-30% EFFICIENCY PLEATED FILTERS. PROVIDE ONE SET OF REPLACEMENT FILTERS.
2. PROVIDE THROUGH-THE-BOTTOM POWER AND CONTROL CONNECTIONS.
3. PROVIDE SINGLE POINT POWER CONNECTION, UNIT MOUNTED DISCONNECT SWITCH AND STARTER.
4. PROVIDE IAQ CONDENSATE DRAIN PAN.
5. PROVIDE ANTI-CYCLE TIMER, TIME DELAY RELAY AND HEAD PRESSURE CONTROL.
6. PROVIDE MANUFACTURER'S 14" INSULATED ROOF CURB WITH SLOPED BASE TO MATCH ROOF PITCH.
7. PROVIDE FULL HEIGHT HINGED ACCESS DOORS PANELS.
8. PROVIDE WITH FACTORY 7 DAY PROGRAMMABLE THERMOSTAT. SEE SEQUENCE OF OPERATION FOR CONTROL POINTS.
9. PROVIDE WITH MOTORIZED OUTSIDE AIR DAMPER.

### HVAC LEGEND AND SYMBOLS

----	ITEMS TO BE DEMOLISHED (DEMOLITION PLANS)
---	EXISTING ITEMS TO REMAIN ARE SHADED (CONSTRUCTION PLANS)
	SUPPLY/RETURN/EXHAUST AIR DUCT
	EXHAUST OR RETURN DUCT SECTION
	SUPPLY DUCT SECTION
	OPPOSED BLADE VOLUME DAMPER
	RETURN AIR OPENING WITH FIRE DAMPER ASSEMBLY ABOVE CEILING
	DUCT FIRE DAMPER
Ⓣ	THERMOSTAT (ELECTRIC)
ⓈⓉ	DUCT MOUNTED SMOKE DETECTOR
	DIFFUSER TAG X = S-SUPPLY X = E-EXHAUST X = R-RETURN X = T-TRANSFER
	EQUIPMENT TAG
AC	PACKAGE AIR CONDITIONING UNIT
EF	EXHAUST FAN
	SUPPLY GRILLE
	RETURN/EXHAUST GRILLE
	ROOF MOUNTED CENTRIFUGAL EXHAUST FAN

### DESIGN CONDITIONS SCHEDULE

	SUMMER		WINTER
	DB(°F)	WB(°F)	DB(°F)
OUTDOOR	92.4	79.6	39.1
INDOOR	75.0	62.5	68.0



5 TYPICAL FIRE DAMPER DETAIL TYPE "B" NOMINAL 100% FREE AREA NOT TO SCALE

REVISION	DESCRIPTION	DATE	BY
12/8	ISSUED FOR BIDDING	2008	

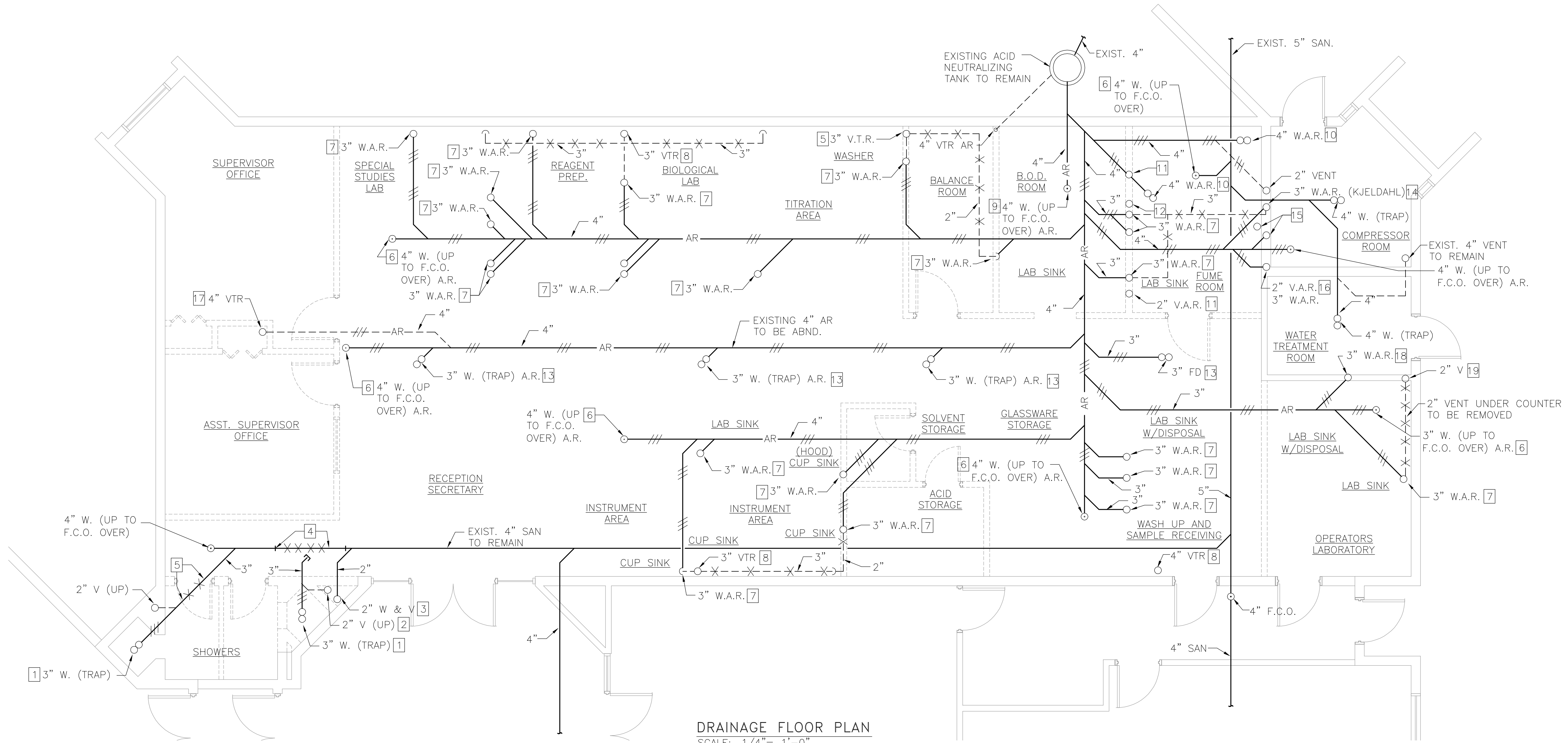
URS Corporation Southern  
7650 West Courtney  
Campbell Causeway  
Tampa, FL 33607-1462  
No. 0000002  
John T. Rector, P.E. 5292

CK BY: JTR  
APPR'D BY: JTR  
DR BY: MUJ  
DSGN BY: JTR

SCALE: AS NOTED  
DATE: NOVEMBER 2008

MANATEE COUNTY S. W. R. W. T. P.  
ADMINISTRATION BUILDING RENOVATIONS  
HVAC SCHEDULES, DETAILS,  
AND LEGEND

SHEET NO.  
2M2.2



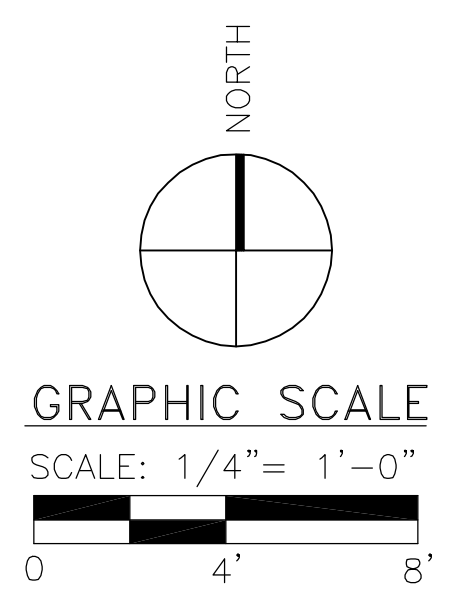
**DRAINAGE FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

**DEMOLITION NOTES:**

- 1 REMOVE SHOWER DRAIN. PROVIDE CAP BELOW FINISHED FLOOR.
- 2 REMOVE 2" VENT (VTR). PROVIDE CAP BELOW FINISHED FLOOR.
- 3 RELOCATE EXISTING 2" W&V AND INSTALL NEW 2" W&V IN EXISTING WALL FOR (D.F.) TWO LEVEL WATER COOLER. COORDINATE WITH TIE-IN NUMBER 14 SHEET 2P2.2.
- 4 REMOVE 5 FEET OF (U.G.) 4" WASTE PIPE. PROVIDE CAP FOR 3" LATERALS TO BE ABANDONED.
- 5 REMOVE 2 FEET OF (U.D.) 3" WASTE PIPE.
- 6 REMOVE FLOOR CLEANOUT. PROVIDE CAP BELOW FINISHED FLOOR.
- 7 REMOVE 3" WASTE, P-TRAP, AND VENT. PROVIDE CAP BELOW FINISHED FLOOR.
- 8 REMOVE 3" VENT THROUGH ROOF.
- 9 REMOVE FLOOR CLEANOUT AND BEND. COORDINATE WITH TIE-IN NUMBER 9 SHEET 2P2.2.
- 10 REMOVE DRAIN OUTLET AND INSTALL PLUG, BELOW FINISHED FLOOR.
- 11 REMOVE 2" VENT IN WALL AND INSTALL PLUG BELOW FINISHED FLOOR.
- 12 REMOVE 1 1/2" VENT IN WALL AND 3" VENT THROUGH ROOF.
- 13 REMOVE 3" FLOOR DRAIN (FD), INCLUDING TRAP AND INSTALL PLUG BELOW FINISHED FLOOR.
- 14 REMOVE EXISTING KJELDAHL UNIT, 3" P-TRAP. PROVIDE PLUG IN WALL. ABANDON 3" VENT IN WALL. REMOVE 3" VENT ABOVE CEILING AND INSTALL PLUG.
- 15 REMOVE EXISTING AUTOCLAVE UNIT, P-TRAP, 2" VAPOR VENT, AND INSTALL PLUG IN WALL. ABANDON 2" WASTE AND VENT IN WALL. COORDINATE WITH TIE-IN NUMBER 16 SHEET 2P2.2.
- 16 REMOVE EXISTING CUP SINK (HOOD), P-TRAP, AND INSTALL PLUG IN WALL. ABANDON 2" WASTE AND 3" VENT IN WALL.
- 17 REMOVE 4" VENT BELOW ROOF STRUCTURE AND INSTALL PLUG BELOW FINISHED FLOOR. REFER TO NOTE 15 ON SHEET NO. 2P2.2.
- 18 REMOVE EXISTING LAB SINK WITH DISPOSAL UNIT, P-TRAP, AND INSTALL PLUG IN WALL. ABANDON 2" WASTE AND VENT IN WALL.
- 19 REMOVE 3" VENT ABOVE CEILING ABANDON 2" VENT IN WALL AND INSTALL PLUGS.

**LEGEND:**

- EXISTING SANITARY WASTE DRAINAGE (BURIED) TO REMAIN
- AR— EXISTING ACID RESISTANT WASTE DRAINAGE (BURIED)
- EXISTING VENT
- AR--- EXISTING VENT (ACID RESISTANT)
- X-X-X-X- VENT TO BE REMOVED
- X-X-X-X- PIPELINE TO BE REMOVED
- /// PIPELINE TO BE ABANDONED (ABND)
- W.A.R. WASTE ACID RESISTANT
- W&V WASTE AND VENT
- V.T.R. VENT THROUGH ROOF
- F.C.O. FLOOR CLEANOUT
- FD FLOOR DRAIN



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URS Corporation Southern  
7650 West Courtney  
Campa, FL 33607-1462  
No. 0000002  
John T. Rector, P.E. 5292

DR:BY: AEP  
CK:BY: MJU  
APPR'D BY: JTR

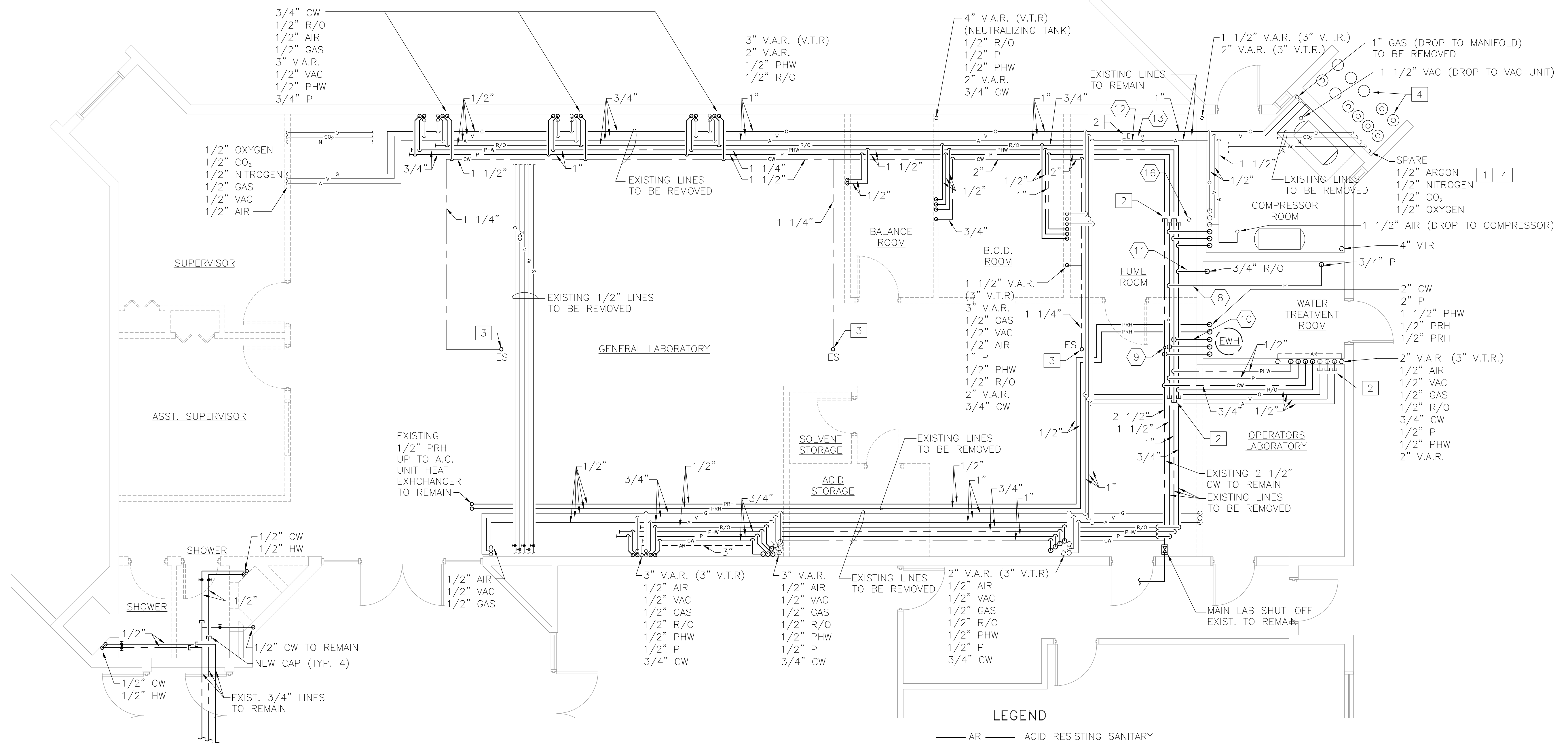
SCALE: AS NOTED  
DATE: NOVEMBER 2008

**MANATEE COUNTY S. W. R. W. T. P.**  
**ADMINISTRATION BUILDING RENOVATIONS**  
**PLUMBING DEMOLITION**  
**DRAINAGE FLOOR PLAN**

SHEET NO.  
**2P2.0**



T:\Manatee County\Laboratory\Mech\_uH\Plumbing\2P2.1.dwg 12/08/2008 9:24



**SUPPLY PLAN**  
SCALE: 1/4" = 1'-0"

**CONSTRUCTION KEYED NOTES:**

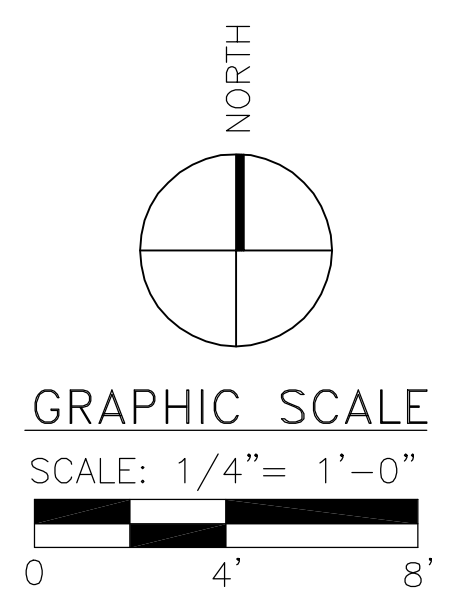
# INDICATES TIE-IN NUMBER REFER TO SHEET 2P2.2 FOR NEW PLUMBING WORK.

**DEMOLITION KEYED NOTES:**

- 1 REMOVE EXISTING LINES.
- 2 REMOVE EXISTING LINES AND PROVIDE CAPS.
- 3 REMOVE EXISTING (ES) EMERGENCY SHOWER.
- 4 REMOVE EXISTING GAS CYLINDERS, STORAGE RACKS AND MANIFOLD.

**LEGEND**

- AR — ACID RESISTING SANITARY
- - - AR - - - ACID RESISTING VENT
- Ar — ARGON
- CO<sub>2</sub> — CARBON DIOXIDE
- CW — COLD WATER PIPING
- A — COMPRESSED AIR
- G — GAS
- N — NITROGEN
- O — OXYGEN
- P — PROTECTED POTABLE WATER
- PHW — PROTECTED POTABLE HOT WATER
- PRH — REHEAT
- R/O — REVERSE/OSMOSIS WATER
- S — SPARE
- V — VACUUM
- ES EMERGENCY SHOWER



REVISIONS	
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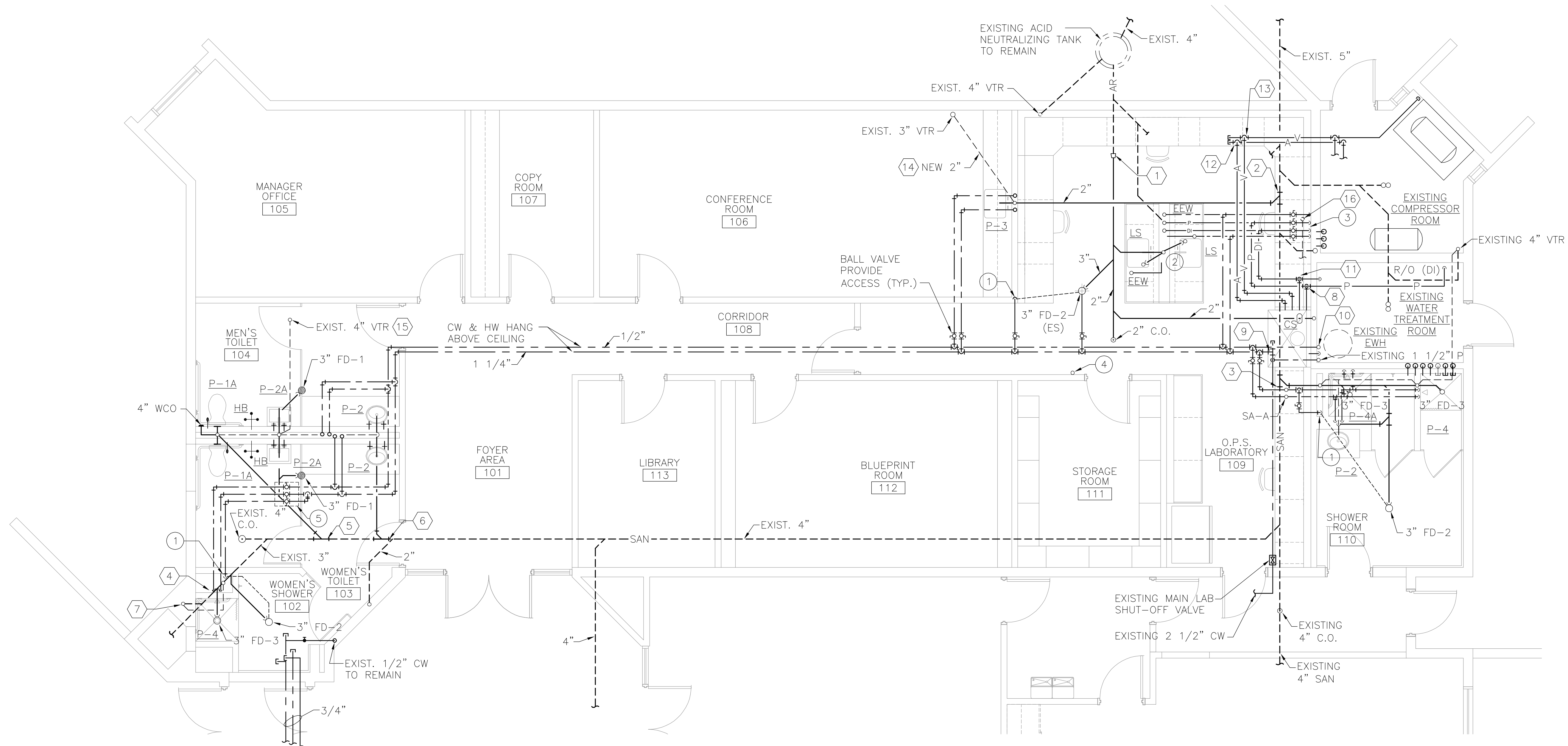
URS Corporation Southern  
7650 West Courtney  
Campa, FL 33607-1462  
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John T. Rector, P.E. 5292

DR: BY: MUJ  
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APPR: BY: JTR

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**MANATEE COUNTY S. W. R. W. T. P.  
ADMINISTRATION BUILDING RENOVATIONS  
PLUMBING DEMOLITION SUPPLY  
ABOVE CEILING PLAN**

SHEET NO.  
**2P2.1**



**TIE-IN NOTES:**

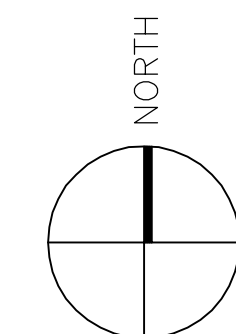
- ① NEW 4"x3" REDUCER, TIE-INTO EXISTING AR WASTE.
- ② NEW CAST IRON 5"x3" COMBINATION Y & EIGHTH BEND, TIE-INTO EXISTING 5" CAST IRON SANITARY (SAN), PROVIDE 3" CAST IRON TO PVC ADAPTER FOR NEW 3" WASTE.
- ③ SAME AS TIE-IN NUMBER 2, EXCEPT, NEW PVC WASTE IS 2".
- ④ NEW PVC 3" 45° WYE DWV, TIE-INTO EXISTING 3" CAST IRON WASTE. PROVIDE CAST IRON TO PVC ADAPTER.
- ⑤ NEW 4" 45° WYE PVC, TIE-INTO EXISTING 4" CAST IRON WASTE. PROVIDE 4" CAST IRON TO PVC ADAPTER.
- ⑥ NEW PVC 4"x4"x2" COMBINATION WYE AND 1/8 BEND, TIE-INTO EXISTING 4" CAST IRON WASTE. PROVIDE 4" CAST IRON TO PVC ADAPTER.
- ⑦ NEW 2" NO-HUB CAST IRON TEE, TIE-INTO EXISTING 2" VENT.
- ⑧ NEW 3/4" PROTECTED POTABLE WATER LINE, TIE-INTO EXISTING 3/4" (P).
- ⑨ NEW 2" COLD WATER LINE TIE-INTO EXISTING 2 1/2" COLD WATER SUPPLY. PROVIDE 2 1/2" CAP.
- ⑩ NEW 1" HOT WATER LINE, TIE-INTO EXISTING 1 1/2" (PHW) PROTECTED POTABLE HOT WATER FROM EXISTING (EWH) ELECTRIC WATER HEATER.
- ⑪ NEW 3/4" DIONIZED WATER LINE, TIE-INTO EXISTING 3/4" R/O LINE.
- ⑫ NEW 1/2" AIR LINE, TIE-INTO EXISTING 1 1/2" AIR LINE PROVIDE 1 1/2" CAP.
- ⑬ NEW 1/2" VACUUM LINE, TIE-INTO EXISTING 1 1/2" VACUUM LINE PROVIDE 1 1/2" CAP.
- ⑭ NEW 2" VENT, TIE-INTO EXISTING 3" OR 4" VENT.
- ⑮ NEW 4" VENT, TIE-INTO EXISTING 4" VENT.
- ⑯ NEW 2" CRV (VENT), TIE-INTO EXISTING VAPOR VENT.

**PARTIAL FLOOR PLAN**

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

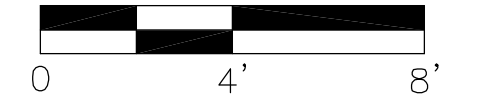
**PLUMBING NOTES:**

- ① 1/2" WATER COLD WATER DOWN IN WALL FROM ABOVE CEILING. PROVIDE TRAP PRIMER SEE DETAIL ON SHEET P1.5.
- ② COMBINATION WASTE AND VENT SYSTEM FOR (LS) SINGLE TUB SINK. PROVIDE 2" CHEM-VENT BY STUDOR.
- ③ 3/4" COLD WATER, 1/2" HOT WATER, DEIONIZED WATER AND PROTECTED POTABLE WATER LINES DOWN FROM ABOVE CEILING, RUN LINES BELOW FLOOR SLAB TO (LS) SINK, PROVIDE CONNECTION FROM COLD WATER TO (EEW) EMERGENCY EYE WASH.
- ④ CEILING MOUNTED EMERGENCY SHOWER (ES) SHALL BE PROVIDED WITH PULLS THAT ARE WALL MOUNTED AT ADA ACCESSIBLE HEIGHTS BALL VALVE OPERATES BY PULL OF NYLON ROPE WITH RED BALL WEIGHT.
- ⑤ BALL VALVES (3) PROVIDE 14" SQUARE CEILING ACCESS PANEL.



**GRAPHIC SCALE**

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



DATE	BY	DESCRIPTION
12/8 2008		ISSUED FOR BIDDING

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 7650 West Courtney  
 Campbell Causeway  
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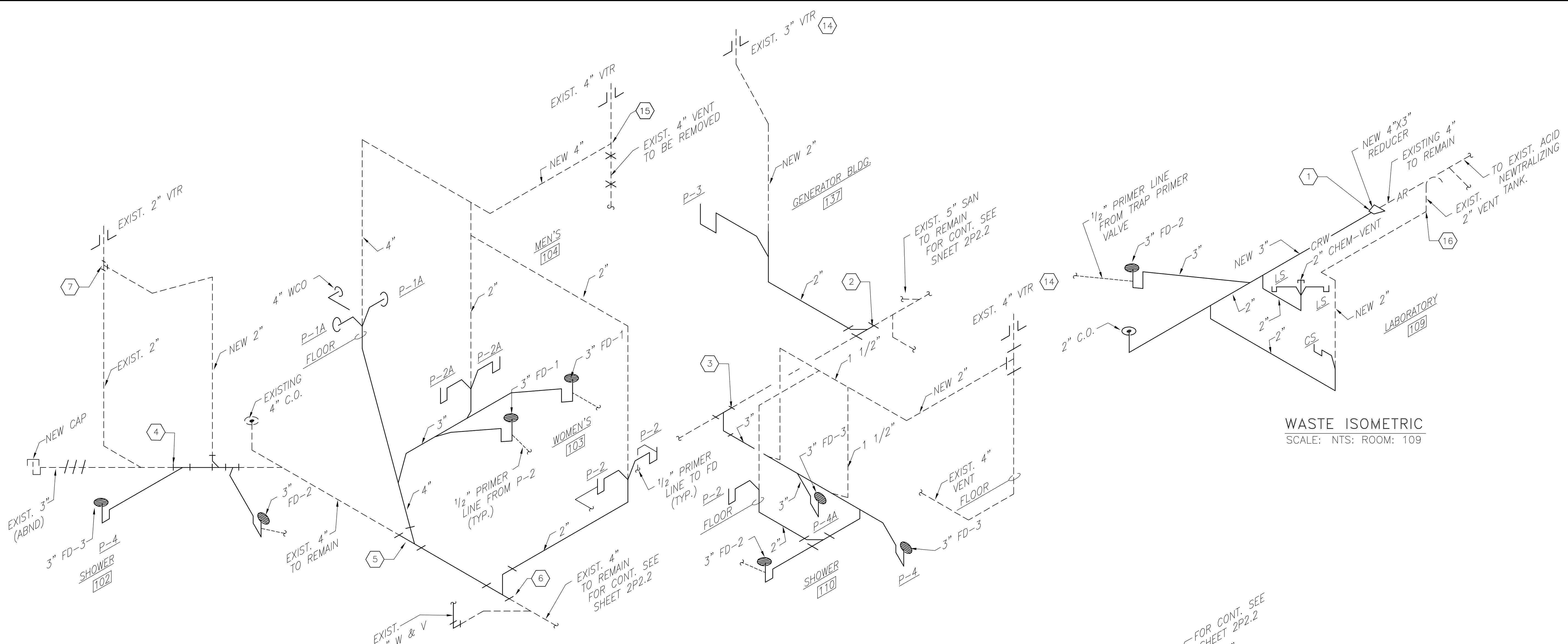
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DSGN: BY: AEP			

SCALE: AS NOTED	DATE: NOVEMBER 2008
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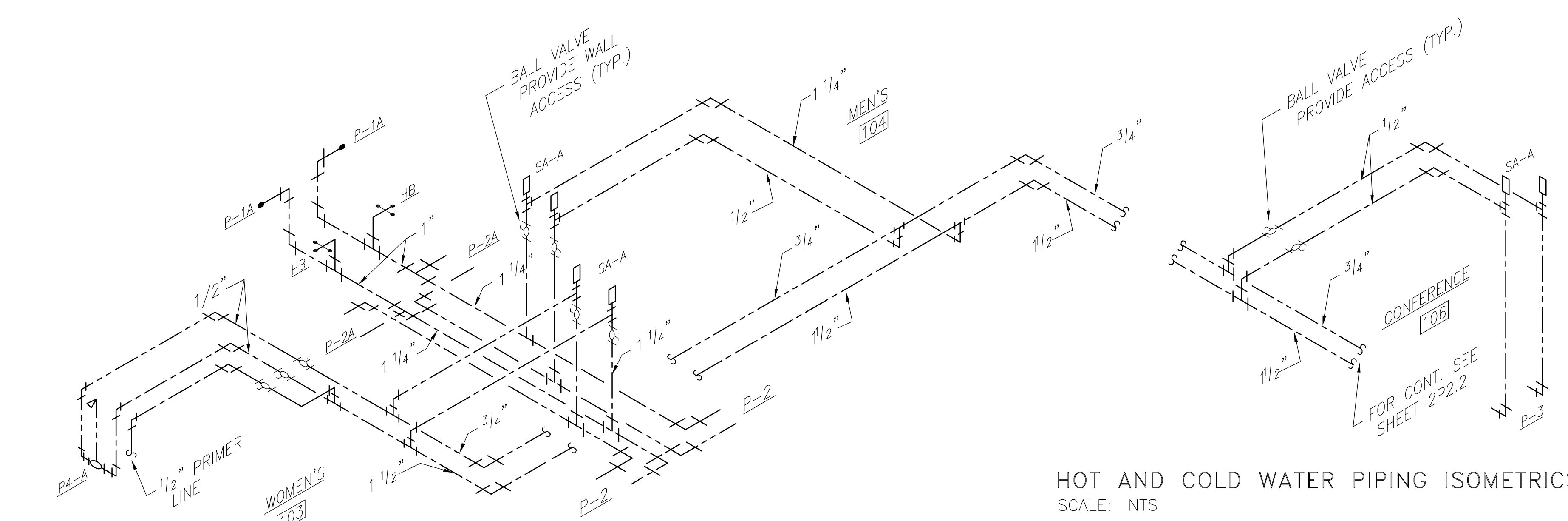
**MANATEE COUNTY S. W. R. W. T. P.**  
**ADMINISTRATION BUILDING RENOVATIONS**  
**PLUMBING PARTIAL FLOOR PLAN**

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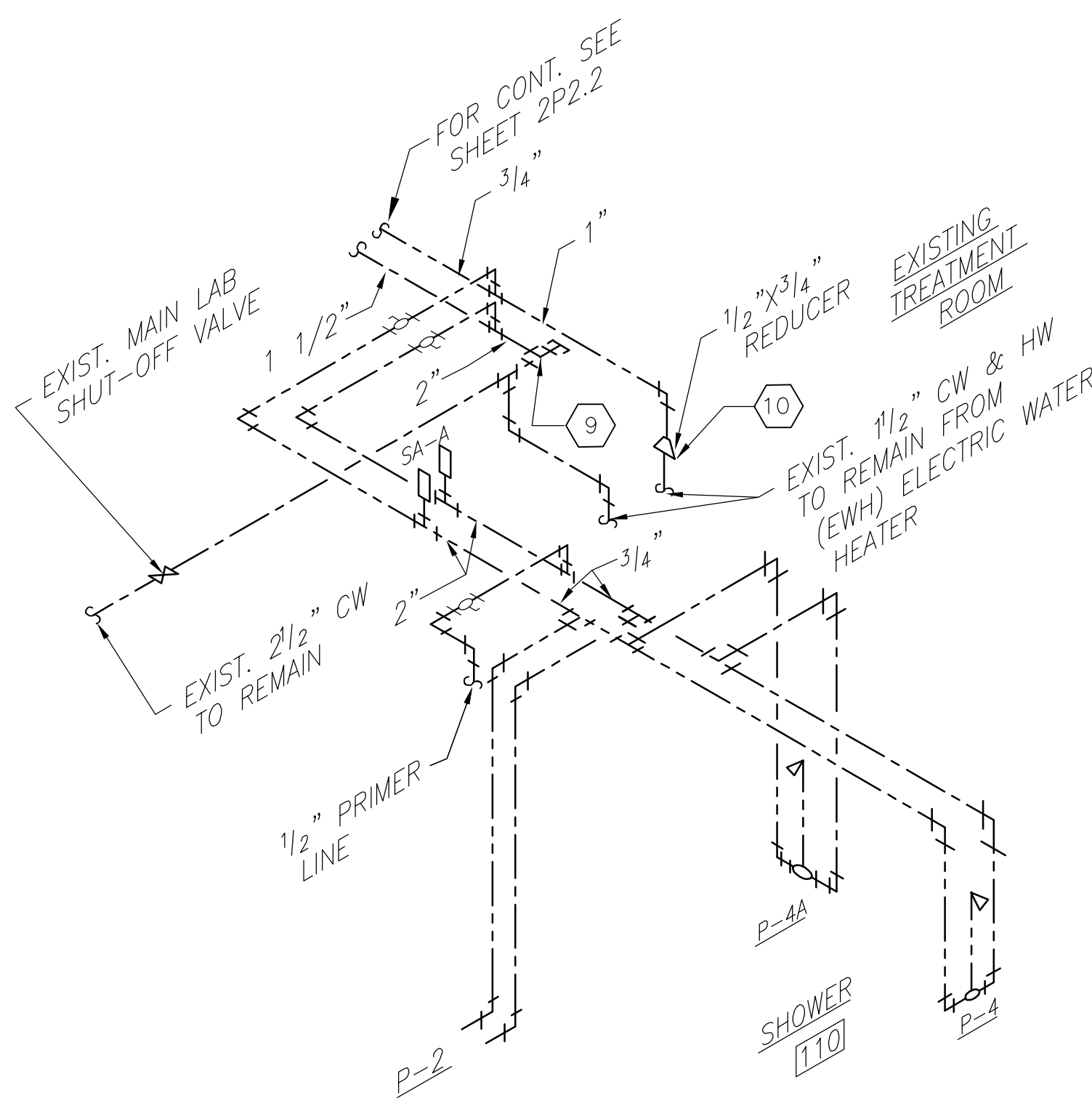
SHEET NO. <b>2P2.2</b>
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**SANITARY ISOMETRICS**  
SCALE: NTS



**HOT AND COLD WATER PIPING ISOMETRICS**  
SCALE: NTS



**WASTE ISOMETRIC**  
SCALE: NTS: ROOM: 109

REVISIONS	
DATE	DESCRIPTION
12/8 2008	ISSUED FOR BIDDING

URS Corporation Southern  
7650 West Courtney  
Campbell Causeway  
Tampa, FL 33607-1462  
No. 0000002  
John T. Rector, P.E. 5292

DR: BT / MJO  
CK: BY / AEP  
APPR: BY / JTR

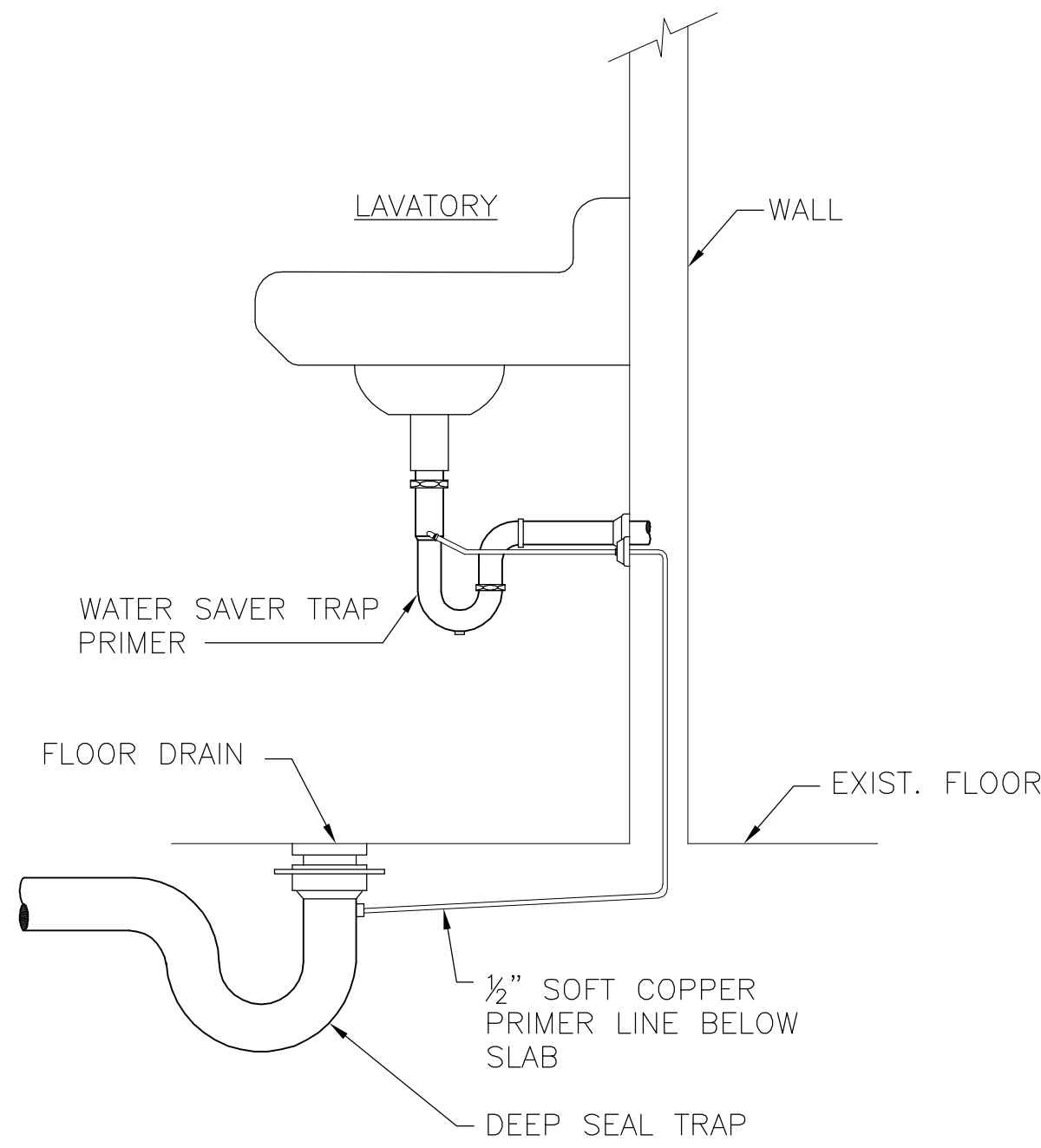
SCALE:	AS NOTED
DATE:	NOVEMBER 2008

**MANATEE COUNTY S. W. R. W. T. P.**  
**ADMINISTRATION BUILDING RENOVATIONS**

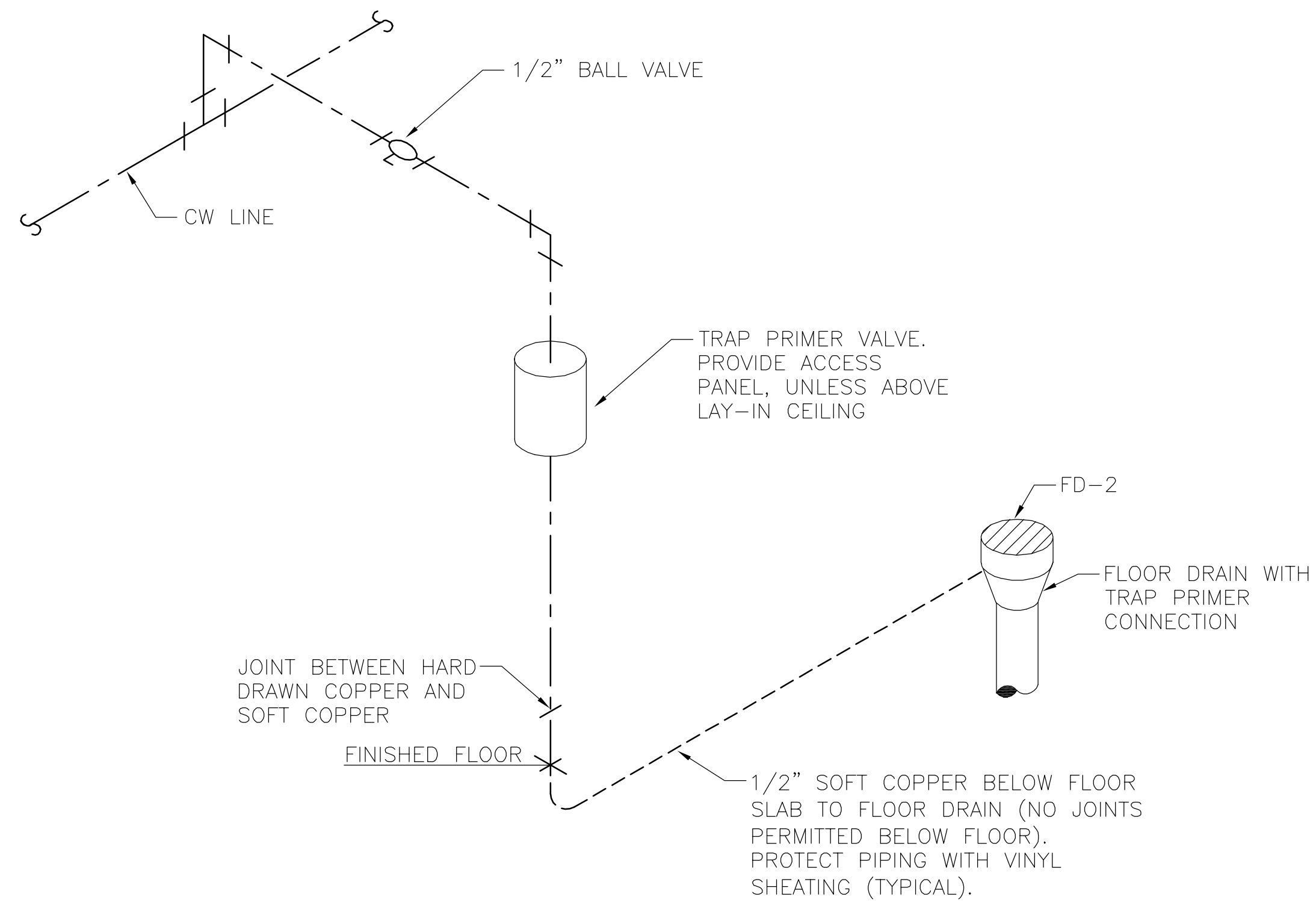
**PLUMBING ISOMETRICS**

SHEET NO.	<b>2P2.3</b>
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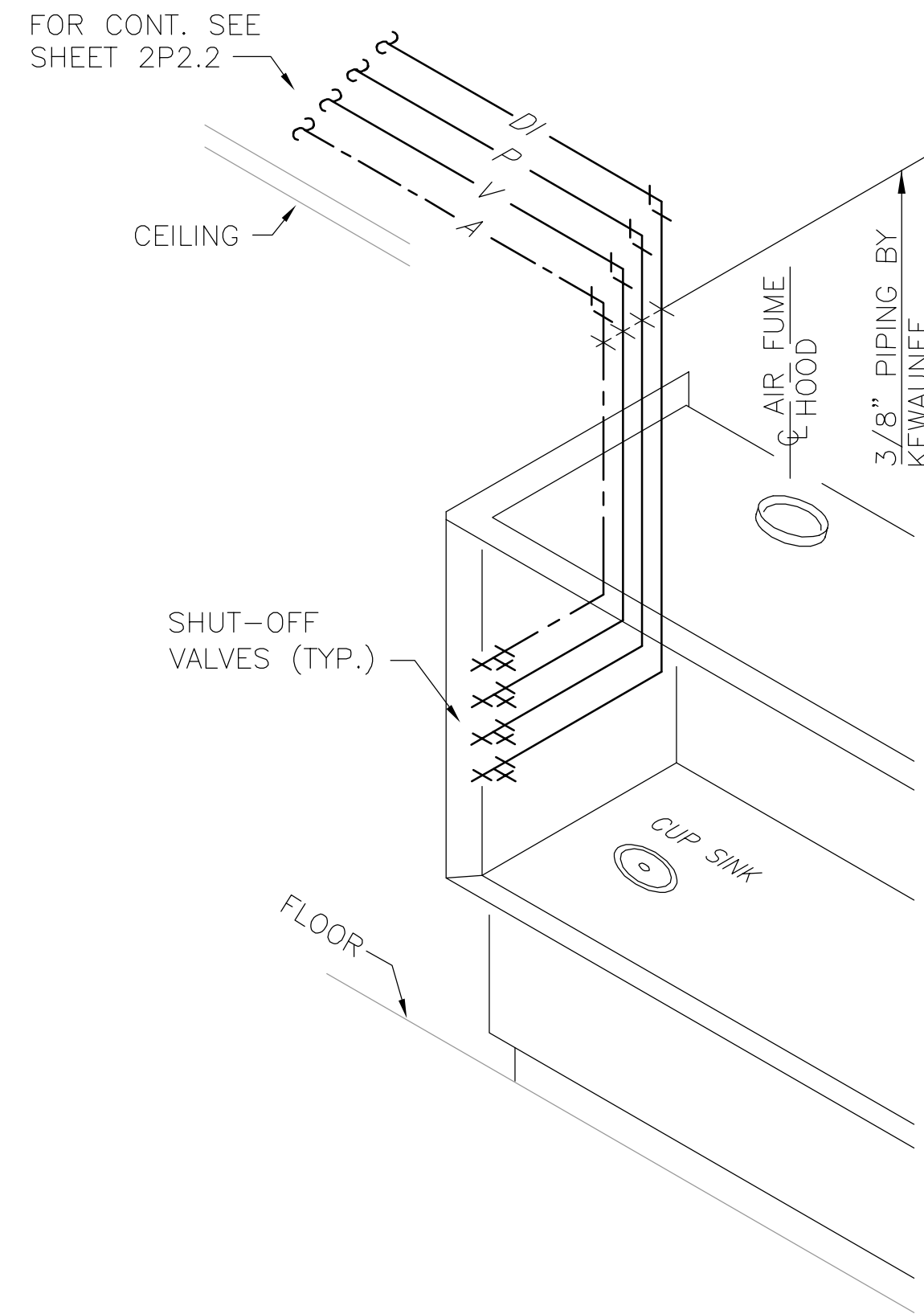
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**WATER SAVER TRAP PRIMER DETAIL**  
SCALE: NTS



**FLOOR DRAIN AUTOMATIC TRAP SEAL PRIMER SCHEMATIC**  
SCALE: NTS



**HOOD SUPPLY CONNECTIONS ISOMETRIC**  
SCALE: NTS ROOM: 109

ITEM	DESCRIPTION	WATER SUPPLY				TRAP	MIN. VENT
		BRANCH		FIXTURE			
		COLD	HOT	COLD	HOT		
P-1A	WATER CLOSET WALL HUNG - HANDICAPPED	1"	-	1"	-	4"	2"
P-2	LAVATORY - COUNTERTOP	1/2"	1/2"	3/8"	3/8"	1-1/4"	1-1/2"
P-2A	LAVATORY - WALL HUNG WHEELCHAIR	1/2"	1/2"	3/8"	3/8"	1-1/4"	1-1/2"
P-3	SINGLE COMPARTMENT SINK	1/2"	1/2"	3/8"	3/8"	1-1/2"	1-1/2"
P-4	SHOWER	1/2"	1/2"	1/2"	1/2"	3"	1-1/2"
P-4A	SHOWER - HANDICAPPED	1/2"	1/2"	1/2"	1/2"	3"	1-1/2"
LS	SINGLE TUB SINK	1/2"	1/2"	3/8"	3/8"	1-1/2"	1-1/2"
CS	CUP SINK	1/2"	1/2"	3/8"	3/8"	1-1/2"	1-1/2"
HB	HOSE BIBB	3/4"	-	3/4"	-	-	-
EEW	EMERGENCY EYE WASH	1/2"	-	1/2"	-	-	-
ES	EMERGENCY SHOWER	1"	-	1"	-	-	-

**PLUMBING LEGEND**

- SAN — SANITARY DRAINAGE
- CRW----- CHEMICAL RESISTANT WASTE
- CRV----- CHEMICAL RESISTANT VENT
- VENT
- — — COLD WATER (CW)
- — — — — HOT WATER (HW)
- — — — — HOT WATER RETURN (HWR)
- DI — DEIONIZED WATER SUPPLY
- A — COMPRESSED AIR LINE
- V — VACUUM PIPE
- H — HELIUM
- N — NITROGEN
- AR — ARGON
- NO — NITROUS OXIDE
- AC — ACETYLENE
- EWH — ELECTRIC WATER HEATER
- CO ○ — FLOOR CLEANOUT
- WCO ⊥ — WALL CLEANOUT
- FD ○ — FLOOR DRAIN
- ⊥ ⊥ — BALL VALVE
- ⊥ ⊥ — GATE VALVE
- SA □ — SHOCK ABSORBER
- HB ⊥ — HOSE BIBB
- VTR ⊥ — VENT THRU ROOF

REVISIONS	
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BY	

URS Corporation Southern  
7650 West Courtney  
Campa, FL 33607-1462  
No. 0000002  
John T. Rector, P.E. 5292

CK'BY: AEP  
DR'BY: MUJ  
APPR'D BY: JTR

SCALE: AS NOTED	DATE: NOVEMBER 2008
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**MANATEE COUNTY S. W. R. W. T. P.**  
**ADMINISTRATION BUILDING RENOVATIONS**  
**PLUMBING SCHEDULE AND DETAILS**

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SHEET NO. <b>2P2.4</b>
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ELECTRICAL SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	FLUORESCENT LAY-IN FIXTURE. LETTER INDICATES FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE.		PANELBOARD.
NL	FIXTURE BEING USED FOR NL FIXTURE.		POWER OUTLET OR JUNCTION BOX AS NOTED.
E	FLUORESCENT LIGHTING FIXTURE, CEILING OR JOIST MOUNTED WITH OUTLET BOX. LETTER INDICATES TYPE.		LIGHTNING PROTECTION AIR TERMINAL.
	FLUORESCENT WALL MOUNTED LIGHTING FIXTURE WITH FLUSH OUTLET BOX UNLESS OTHERWISE NOTED. LETTER INDICATES TYPE.		GROUND CONNECTION
	INCANDESCENT OR COMPACT FLUORESCENT LIGHTING FIXTURE, CEILING MOUNTED UNLESS OTHERWISE NOTED. LETTER INDICATES TYPE.		ELECTRIC MOTOR. NUMBER INDICATES HORSEPOWER.
	HID LIGHTING FIXTURE, WALL MOUNTED. LETTER INDICATES TYPE.		PULL BOX.
	POLE MOUNTED LIGHTING FIXTURE.	— LP —	LIGHTNING PROTECTION CONDUCTOR.
	CEILING OR WALL MOUNTED EXIT LIGHTING FIXTURE WITH ARROW (CHEVRON) AS INDICATED. SINGLE OR DOUBLE FACE AS SHOWN. CONNECT TO LINE SIDE (UNSWITCHED) OF CIRCUIT.	— G —	UNDERGROUND GROUND CONDUCTOR.
	EMERGENCY LIGHTING UNIT, WALL MOUNTED 7'-0" AFF. CONNECT TO LINE SIDE (UNSWITCHED) OF CIRCUIT.	— — — — —	CONDUIT RACEWAY EXPOSED.
Sa	SINGLE POLE TOGGLE SWITCH. MOUNTED TOP 48" A.F.F. LOWER CASE LETTER INDICATES LIGHTING FIXTURES CONTROLLED.		CONDUIT RACEWAY CONCEALED IN CEILING SPACE OR WALLS.
S3 S4	THREE WAY AND FOUR WAY TOGGLE SWITCH. MOUNTED TOP 48" A.F.F.	— — — — —	CONDUIT RACEWAY IN CONCRETE SLAB OR UNDERGROUND.
Sd	DIMMER SWITCH AS NOTED.	— — — — —	CONDUIT UP
GFI WP F	DUPLEX RECEPTACLE. "WP" INDICATES WEATHERPROOF. "GFI" INDICATES GROUND FAULT INTERRUPTER. MOUNTED BOTTOM 16" A.F.F. UNLESS OTHERWISE NOTED. "F" INDICATES FLOOR OUTLET.	— — — — —	CONDUIT DOWN
	SPECIAL RECEPTACLE AS NOTED.		HOMERUN TO PANEL - LETTER INDICATE PANEL, NUMBERS INDICATE BRANCH CIRCUITS. PROVIDE GREEN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUIT.
	SPECIAL RECEPTACLE AS NOTED, WITH EXPOSED CONDUIT FROM WALL TO RECEPTACLE BOX.	A-1,3,5	
	QUAD (TWO DUPLEX) RECEPTACLE. MOUNTED BOTTOM 16" A.F.F. OR AS NOTED.		DEVICE OR EQUIPMENT AS NOTED
	DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTER OR TOP 48" AFF.		REFER TO DRAWING REFERENCE NOTES
	DUPLEX RECEPTACLE MOUNTED HORIZONTALLY IN LAB TABLE BACKSPLASH.		4" X 4" OUTLET BOX FOR TELEPHONE/DATA SYSTEMS WITH 3/4" C. STUB-UP 3" ABOVE ACOUSTICAL CEILING SPACE U.O.N. MOUNT OUTLET BOTTOM 16" AFF U.O.N., PROVIDE FACE PLATE WITH (3) RJ45 (DATA) PORTS AND (1) TELEPHONE OUTLET.
	(2) DUPLEX RECEPTACLES MOUNTED IN CORROSION RESISTANT PEDESTAL ON LAB TABLE.		2" X 4" OUTLET BOX FOR TELEPHONE/DATA SYSTEMS WITH 3/4" C. STUBBED-UP 3" INTO ACCESSIBLE CEILING SPACE U.O.N. MOUNT OUTLET HORIZONTALLY IN LAB TABLE BACKSPLASH. PROVIDE FACE PLATE WITH (3) RJ45 (DATA) PORTS AND (1) TELEPHONE OUTLET.
J	JUNCTION BOX. 4" SQ. OR AS NOTED.		2" X 4" OUTLET BOX FOR TELEPHONE/DATA SYSTEMS WITH 3/4" C. STUBBED-UP 3" INTO ACCESSIBLE CEILING SPACE U.O.N. MOUNT OUTLET IN J-BOX AT BACK OF LAB TABLE WITH EXPOSED CONDUIT FROM WALL TO RECEPTACLE BOX. PROVIDE FACE PLATE WITH (3) RJ45 (DATA) PORTS AND (1) TELEPHONE OUTLET.
	EXHAUST FAN.		TELEPHONE SET.
	PUSHBUTTON. MOUNTED 48" AFF.		COMMUNICATION BACKBOARD.
SM	MANUAL MOTOR STARTER WITH OVERLOAD ELEMENT	+++++	CABLE TRAY.
30A.3P 30 A.F.	DISCONNECT SWITCH 'P' INDICATES NUMBER OF POLES, "A" SWITCH SIZE, 'F' FUSE SIZE (NF INDICATES NON-FUSED).		
	FLEXIBLE CONDUIT CONNECTION.		
J	OUTLET OR JUNCTION BOX.		

### ABBREVIATIONS

A	AMPS
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
BLDG.	BUILDING
C	CONDUIT
C.B.	CIRCUIT BREAKER
CLG.	CEILING
CV	CONSTANT VOLUME
DN	DOWN
DWG	DRAWING
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
G	GROUND
GFI	GROUND FAULT INTERRUPTER
HP	HORSEPOWER
KVA	KILOVOLTAMP
KW	KILOWATT
LTG	LIGHTING
L.P.	LIGHTNING PROTECTION
MIN	MINIMUM
MNT.	MOUNTED
N.T.S.	NOT TO SCALE
OH	OVERHEAD
REC	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
TEL	TELEPHONE
TYP	TYPICAL
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VAV	VARIABLE AIR VOLUME
V	VOLT
WP	WEATHERPROOF (NEMA 3R)

### PROJECT GENERAL NOTES

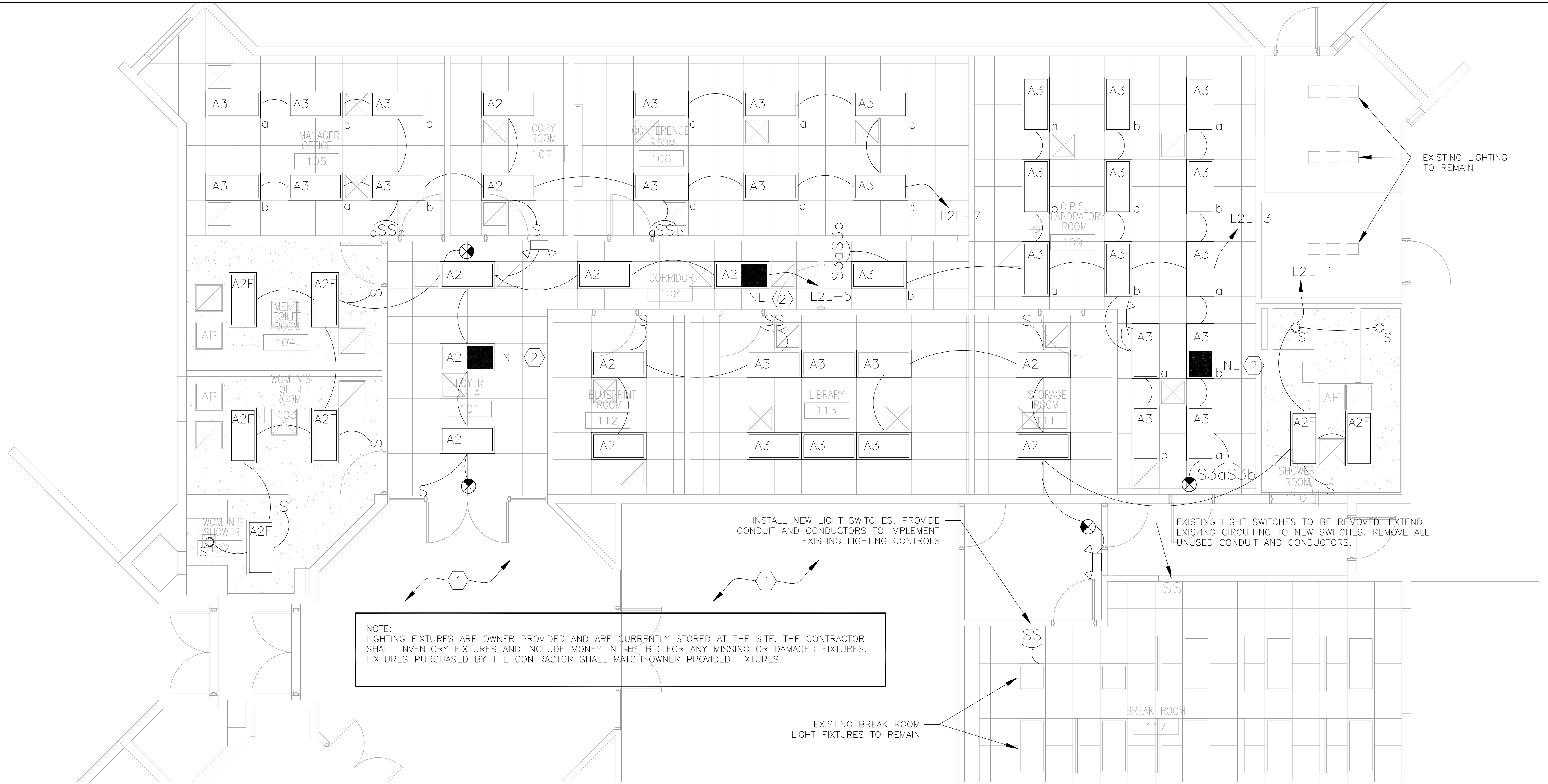
(APPLICABLE TO ALL DRAWINGS)

- G1 COORDINATE THE MOUNTING OF ALL OUTLETS WITH FINAL FURNITURE, EQUIPMENT AND MILLWORK LAYOUT, AND ARCHITECTURAL ELEMENTS.
- G2 COORDINATE WITH ARCHITECTURAL REFLECTED CEILING GRID AND EXACT LOCATION OF LIGHTING FIXTURES.
- G3 WHEN CONDUCTOR SIZE IS INDICATED FOR BRANCH CIRCUIT HOMERUN, THE CONDUCTOR SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.
- G4 CONDUCTORS SHALL BE #12 AWG IN 3/4" RACEWAY (PLUS GREEN EQUIPMENT GROUNDING CONDUCTOR). UNLESS OTHERWISE NOTED.
- G5 COORDINATE WITH DIVISION 15 FOR EXACT LOCATION OF MECHANICAL EQUIPMENT AND WITH MANUFACTURER'S SHOP DRAWING REQUIREMENTS. DISCONNECT SWITCHES SHALL BE FUSED AS REQUIRED BY MANUFACTURER WITH FUSES SIZED PER MANUFACTURER'S RECOMMENDATIONS.
- G6 PROVIDE BLACK DUPLEX RECEPTACLES WITH STAINLESS STEEL COVERPLATE, TYPICAL, UNLESS OTHERWISE NOTED.

### ELECTRICAL DRAWING LIST

- 2E1.0 ELECTRICAL LEGEND AND GENERAL NOTES
- 2E2.0 LIGHTING PLAN
- 2E3.0 POWER PLAN
- 2E4.0 COMMUNICATION SYSTEM PLAN
- 2E5.0 POWER RISER DIAGRAM
- 2E6.0 PANELBOARD SCHEDULES

REVISIONS	DATE	BY	DESCRIPTION
	12/8 2008		ISSUED FOR BIDDING
 URS Corporation Southern 7650 West Courtney Campbell Causeway Tampa, FL 33607-1462 No. 00000002		DSGN. BY: FJF DR. BY: FJF CK. BY: KWG APPR'D BY: FJF	
SCALE:	AS NOTED		
DATE:	NOVEMBER 2008		
<b>MANATEE COUNTY S. W. R. W. T. P.</b> <b>ADMINISTRATION BUILDING RENOVATIONS</b> <b>ELECTRICAL LEGEND AND GENERAL NOTES</b>			
SHEET NO.			
<b>2E1.0</b>			



**NOTE:**  
 LIGHTING FIXTURES ARE OWNER PROVIDED AND ARE CURRENTLY STORED AT THE SITE. THE CONTRACTOR SHALL INVENTORY FIXTURES AND INCLUDE MONEY IN THE BID FOR ANY MISSING OR DAMAGED FIXTURES. FIXTURES PURCHASED BY THE CONTRACTOR SHALL MATCH OWNER PROVIDED FIXTURES.

**LIGHTING PLAN**  
 SCALE: 1/4" = 1'-0"

LIGHTING FIXTURE SCHEDULE						
FIXT. TYPE	FIXTURE DESCRIPTION	MANUFACTURER & CATALOG NUMBER	NO. AND TYPE OF LAMPS	VOLT	MOUNTING	REMARKS
A2	2X4 FLUORESCENT ACRYLIC LENS FIXTURE 2-LAMP	COLUMBIA #4PS24-232G-FSA12-EB8-120	(2) F32/T8	120	RECESSED	(2)
A2F	2X4 FLUORESCENT ACRYLIC LENS FIXTURE 2-LAMP W/FLANGE KIT	COLUMBIA #4PS24-232G-FSA12-EB8-120-FK24	(2) F32/T8	120	RECESSED	(2)
A3	2X4 FLUORESCENT ACRYLIC LENS FIXTURE 3-LAMP WITH W/ TWO BALLASTS	COLUMBIA #4PS24-332G-FSA12-EB82-120	(3) F32/T8	120	RECESSED	SEE GENERAL NOTE 7
S	SHOWER LIGHTING FIXTURE	PRESCOLITE #TBXIC-120V-TL40	(1) 26W TT	120	RECESSED	
EL	EMERGENCY LIGHTING UNIT	PRESCOLITE #EDS2-CVS-NB	2 - T5 INCAND.	120	PENDANT/WALL	SEE GENERAL NOTE 8
XS	LED EXIT SIGN LIGHTING FIXTURE	PRESCOLITE #XT3REN-W	INTEGRAL LED	120	UNIVERSAL	SEE GENERAL NOTE 8

**GENERAL NOTES:**

- ALL FLUORESCENT LIGHTING FIXTURES INCLUDING COMPACT FLUORESCENT FIXTURES SHALL HAVE ELECTRONIC BALLAST.
- ALL LIGHTING FIXTURE FINISHES SHALL MATCH OWNER PROVIDED FIXTURES.
- CONTRACTOR SHALL VERIFY CEILING COMPATIBILITY PRIOR TO ORDERING LIGHTING FIXTURES.
- PROVIDE AN OUTLET BOX FOR EACH SURFACE/PENDANT MOUNTED LIGHTING FIXTURE FOR EASE OF MAINTENANCE.
- ALL LAMPS SHALL BE FACTORY INSTALLED INTEGRAL WITH LIGHTING FIXTURES.

- RECESSED MOUNTED FLUORESCENT LIGHTING FIXTURES SHALL HAVE NO REVEAL BETWEEN FRAME AND CEILING GRID.
- PROVIDE TWO BALLASTS FOR INBOARD/OUTBOARD SWITCHING OF LAMPS.
- PROVIDE UNSWITCHED CIRCUIT FOR ALL EMERGENCY, EXIT AND NIGHT LIGHT (NL) FIXTURES.
- FIXTURES SHALL BE OF THE SAME MANUFACTURER AND MODEL AS PROVIDED BY OWNER. WHEN A SIMILAR TYPE FIXTURE IS NOT PROVIDED BY THE OWNER AN APPROVED EQUAL BY OTHER MANUFACTURERS WILL BE CONSIDERED.

**NOTES:**

- (1) LIGHTING IS EXISTING IN THIS AREA AND SHALL REMAIN.
- (2) NIGHT LIGHT(NL.) FIXTURES SHALL INCLUDE A SECOND BALLAST. THIS BALLAST SHALL SUPPLY (1) LAMP AND SHALL NOT BE SWITCHED.

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URS Corporation Southern  
 7650 West Courtney  
 Campbell Causeway  
 Tampa, FL 33607-1462  
 No. 0000002  
 MICHAEL R. SAKALES, P.E. 67588

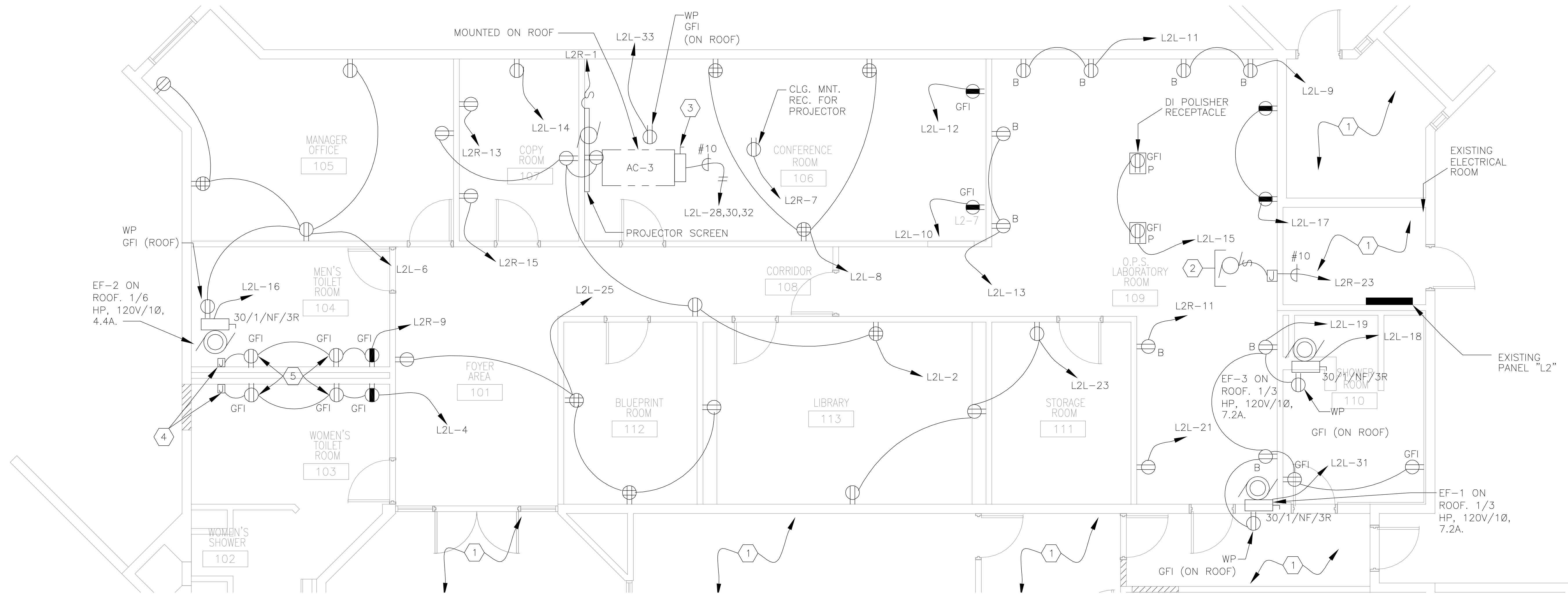
DR:BY: MRS  
 CK:BY: ELP  
 APPR'D BY: MRS

SCALE: AS NOTED  
 DATE: NOVEMBER 2008

**MANATEE COUNTY S. W. R. W. T. P.**  
**ADMINISTRATION BUILDING RENOVATIONS**

**LIGHTING PLAN**

SHEET NO.  
**2E2.0**



**POWER PLAN**  
SCALE: 1/4" = 1'-0"

**NOTES:**

- ① EXISTING RECEPTACLES AND POWER CONNECTIONS TO REMAIN IN THIS AREA.
- ② PROVIDE POWER/CONTROL CONNECTIONS TO RELOCATED FUME HOOD. EXHAUST FAN TO BE MOUNTED ON ROOF BY MECHANICAL CONTRACTOR. MATCH EXISTING POWER/CONTROL CONNECTIONS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. REFERENCE MECHANICAL DRAWINGS 2M2.0 AND 2M2.1.
- ③ NEMA 4X STAINLESS STEEL, 3-POLE, 30A, 240V FUSED DISCONNECT SWITCH. COORDINATE FUSE SIZE WITH RTU NAME PLATE DATA.
- ④ TWO (2) 4" X 4" SQUARE JUNCTION BOXES FOR TOILET MOTION SENSORS. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH IN.
- ⑤ PROVIDE GFI RECEPTACLES FOR SINK MOTION SENSORS. MOUNT RECEPTACLES UNDER SINK. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH THE PLUMBING CONTRACTOR. PRIOR TO ROUGH IN.

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URS Corporation Southern  
7650 West Courtney  
Campaill Causeway  
Tampa, FL 33607-1462  
No. 00000002  
MICHAEL R. SAKALES, P.E. 67588

DRSN: BY: FJF  
CK: BY: KGW  
APPR'D BY: FJF

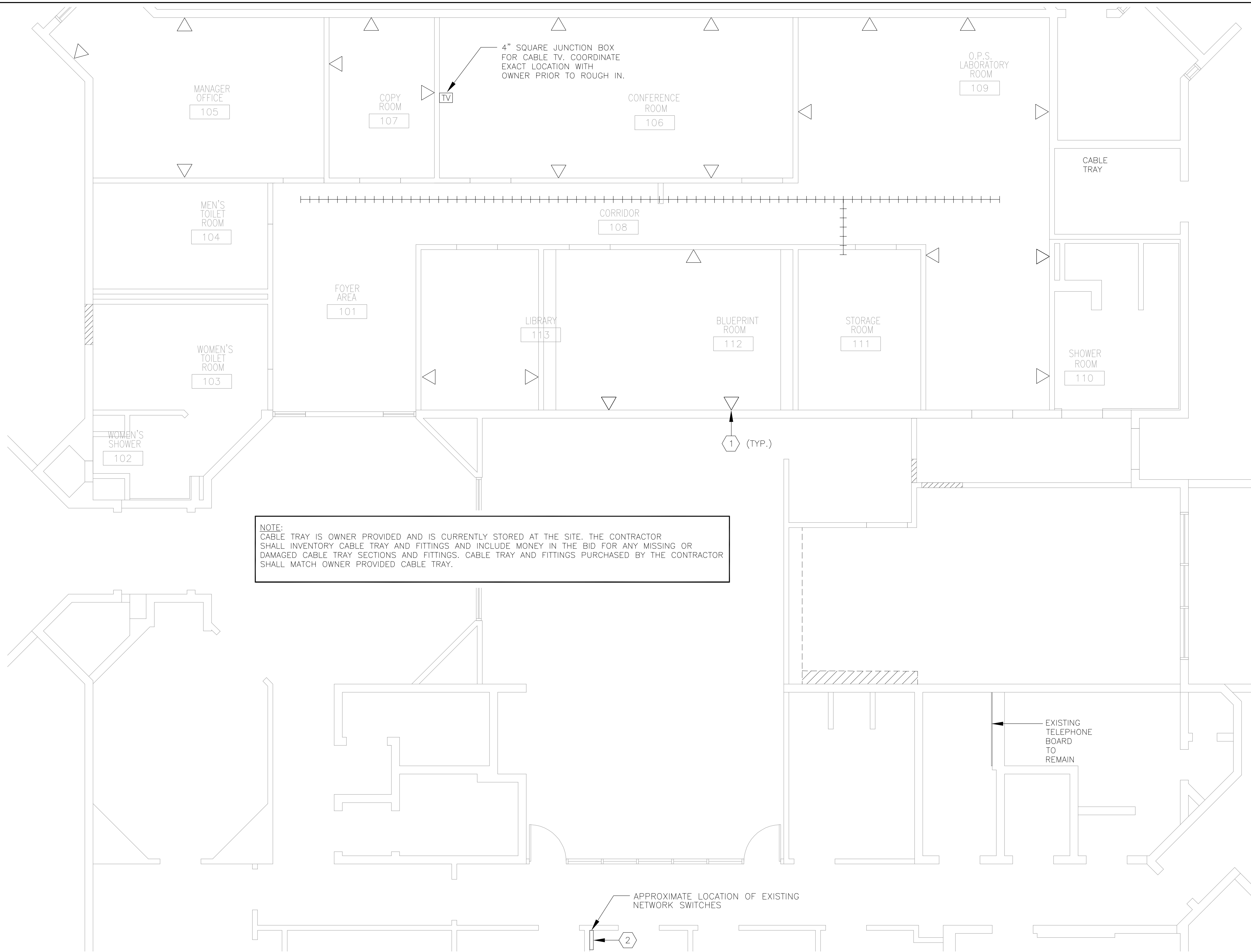
SCALE: AS NOTED	DATE: NOVEMBER 2008
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**MANATEE COUNTY S. W. R. W. T. P.**  
**ADMINISTRATION BUILDING RENOVATIONS**

**POWER PLAN**

--

SHEET NO. <b>2E3.0</b>
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**NOTE:**  
 CABLE TRAY IS OWNER PROVIDED AND IS CURRENTLY STORED AT THE SITE. THE CONTRACTOR SHALL INVENTORY CABLE TRAY AND FITTINGS AND INCLUDE MONEY IN THE BID FOR ANY MISSING OR DAMAGED CABLE TRAY SECTIONS AND FITTINGS. CABLE TRAY AND FITTINGS PURCHASED BY THE CONTRACTOR SHALL MATCH OWNER PROVIDED CABLE TRAY.

**NOTES:**

- 1 THE CONTRACTOR SHALL PROVIDE AND INSTALL (1) TELEPHONE CABLE BETWEEN TELEPHONE OUTLET AND THE EXISTING TELEPHONE BOARD AND (1) CAT 5E, PLENUM RATED DATA CABLE BETWEEN A DATA JACK AND THE NETWORK SWITCH; COORDINATE REQUIREMENTS WITH OWNER.
- 2 PROVIDE NEW ETHERNET SWITCH AND NETWORK EQUIPMENT AS REQUIRED TO INTEGRATE THE NEW DATA CONNECTIONS WITH THE EXISTING NETWORK. COORDINATE REQUIREMENTS WITH THE OWNER AND PROVIDE A COMPLETE AND WORKING SYSTEM. SEE NOTE 1.

**COMMUNICATIONS SYSTEMS PLAN**  
 SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**

1. COMMUNICATION SYSTEM IN BUILDING IS EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
2. REFERENCE DWG 2E1.0 FOR SYMBOL DESCRIPTION.

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URS Corporation Southern  
 7650 West Courtney  
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 MICHAEL R. SAKALES, P.E. 67588

DR: BT FJF  
 CK: BT FJF  
 APPR'D BY: KGW FJF

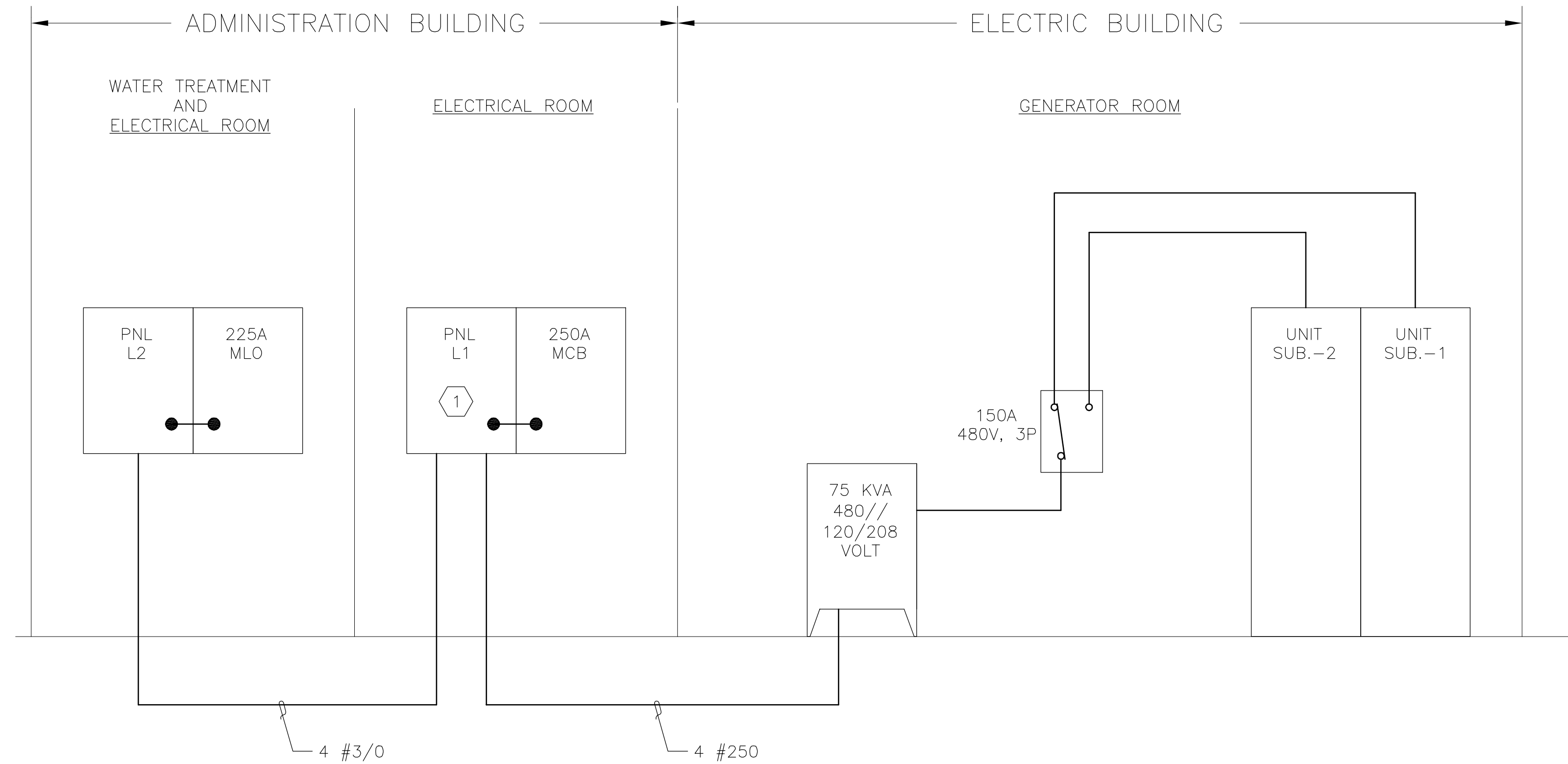
SCALE: AS NOTED	DATE: NOVEMBER 2008
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**MANATEE COUNTY S. W. R. W. T. P.**  
**ADMINISTRATION BUILDING RENOVATIONS**  
**COMMUNICATION SYSTEM PLAN**

--

SHEET NO. <b>2E4.0</b>
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**EXISTING PARTIAL RISER DIAGRAM**

N.T.S.


**REFERENCE NOTES:**

- ① REPLACE EXISTING 3-POLE, 225 AMP CIRCUIT BREAKER IN PANEL L1 (FEEDING PNL L2) WITH A NEW 3-POLE, 200A CIRCUIT BREAKER. CIRCUIT BREAKER AIC RATING SHALL NOT BE LESS THAN 10,000A.

**GENERAL NOTES:**

- 1. ELECTRICAL EQUIPMENT INDICATED ON EXISTING PARTIAL RISER DIAGRAM IS EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

REVISIONS	
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 URS Corporation Southern  
 7650 West Courtney  
 Campbell Causeway  
 Tampa, FL 33607-1462  
 No. 00000002  
 MICHAEL R. SAKALES, P.E. 67588

DSGN. BY: \*SD  
 DR. BY: ELP  
 CK. BY: \*  
 APPR'D BY: \*

SCALE:	AS NOTED
DATE:	NOVEMBER 2008

**MANATEE COUNTY S. W. R. W. T. P.**  
**ADMINISTRATION BUILDING RENOVATIONS**  
**POWER RISER DIAGRAM**

--

SHEET NO.
<b>2E5.0</b>

MAINS RATING: 400A MCB: 250A VOLTAGE: 120/208V, 3ø, 4W		PANEL "L1" (EXISTING SEC. 1 LEFT)					MOUNTING: SURFACE LOCATION: ELECTRICAL ROOM		
CKT NO	DESCRIPTION	BREAKERS		KVA	KVA	BREAKERS		CKT NO	
		POLE	AMPS			POLE	AMPS		
1	LIGHTS—CONFERENCE ROOM	1	20	.94	.96	1	20	RECEPTACLE—GFI FRONT BATH, HALL, OFFICE	2
3	LIGHTS—CONFERENCE ROOM	1	20	.94	.39	1	20	LIGHTING—FRONT BATH, HALL	4
5	LIGHTS—CONFERENCE ROOM	1	20	.94	.30	1	20	FRONT WATER COOLER	6
7	DOOR GATE—LUNCHROOM HUM.	1	20	.60	.96	1	20	LIGHTING—LOBBY	8
9	RECEPTACLE—LOBBY	1	20	.80	.96	1	20	LIGHTING—LOBBY	10
11	EXHAUST FAN—WEST FRONT BATH	1	20	.20	.96	1	20	LIGHTING—LOBBY	12
13	SPARE	1	20	—	.10	1	20	LIGHTING—ELEC. ROOM, EXIT, HALL, #1 OFFICE	14
15	LIGHTING—PIC ROOM	1	20	.33	—	1	20	SPARE	16
17	LIGHTING—PIC ROOM	1	20	.33	.72	1	20	LIGHTING—BACK CORRIDOR	18
19	LIGHTING—PIC ROOM	1	30	.33	.96	1	20	LIGHTING LUNCH ROOM	20
21	RECEPTACLE—VENDING MACHINE	1	20	.80	—	1	20	SPARE	22
23	RECEPTACLE—VENDING MACHINE	1	20	.80	.075	—	—	A/C CONTROL CABINET	24
25	RECEPTACLE—LUNCH ROOM	1	20	1.62	.04	—	—	INSTRUMENT CABINET	26
27	RECEPTACLE—VENDING MACHINE	1	20	.80	.07	—	—	ROCHA CABINET—MARS	28
29	REFRIDGERATOR	1	20	.80	.60	—	—	RECEPTACLE—DISPOSAL, LUNCH ROOM	30
31	PHONE BOARD	1	20	.25	—	—	—	SPACE	32
33	SPACE	—	—	—	—	—	—	SPACE	34
35	SPACE	—	—	—	—	—	—	SPACE	36
37	SPACE	—	—	—	—	—	—	SPACE	38
39	SPACE	—	—	—	—	—	—	SPACE	40
41	SPACE	—	—	—	—	—	—	SPACE	42

CONNECTED LOAD: 17.58 KVA

MAINS RATING: 225A MCB: MLO VOLTAGE: 120/208V, 3ø, 4W		PANEL "L2L" (EXISTING SEC. 1 LEFT)					MOUNTING: SURFACE LOCATION: ELECTRICAL ROOM		
CKT NO	DESCRIPTION	BREAKERS		KVA	KVA	BREAKERS		CKT NO	
		POLE	AMPS			POLE	AMPS		
1	LIGHTING 110—113	1	20	1.54	0.90	1	20	RECEPT 101—113	2
3	LIGHTING 109	1	20	1.56	0.54	1	20	MOTION SENSORS	4
5	LIGHTING 101—108	1	20	1.32	0.90	1	20	RECEPT 105	6
7	LIGHTING 105—106	1	20	1.44	0.10	1	20	RECEPT 106	8
9	RECEPT 109	1	20	0.36	0.86	1	20	MICROWAVE 106	10
11	RECEPT 109	1	20	0.36	0.20	1	20	COFFEE 106	12
13	RECEPT 109	1	20	0.36	0.20	1	20	COPIER 107	14
15	RECEPT 109	1	20	0.36	0.53	1	20	EF—2 (N)	16
17	RECEPT 109	1	20	0.36	0.86	1	20	EF—3 (N)	18
19	RECEPT 109	1	20	0.54	—	—	—	SPARE	20
21	RECEPT 109	1	20	0.36	—	2	30	SPARE	22
23	RECEPT 111—112	1	20	0.8	—	—	—	ECU	24
25	RECEPT—113	1	20	0.72	3.30	2	20	ECU	26
27	SPARE	2	30	—	—	—	—	RTU (N)	28
29	SPARE	2	30	—	6.70	3	25	RTU (N)	30
31	EF—1 (N)	1	20	.86	—	—	—	SPARE	32
33	RTU RECEPT (LOCATED ON ROOF) (N)	1	20	.18	—	—	—	SPARE	34
35	SPARE	—	—	—	—	2	60	SPARE	36
37	SPARE	2	30	—	—	—	—	SPARE	38
39	SPARE	—	—	—	—	2	60	SPARE	40
41	SPARE	2	100	—	—	1	20	SPARE	42

CONNECTED LOAD: 26.21 KVA

MAINS RATING: 400A MCB: MLO VOLTAGE: 120/208V, 3ø, 4W		PANEL "L1" (EXISTING SEC. 2 RIGHT)					MOUNTING: SURFACE LOCATION: ELECTRICAL ROOM		
CKT NO	DESCRIPTION	BREAKERS		KVA	KVA	BREAKERS		CKT NO	
		POLE	AMPS			POLE	AMPS		
1	LIGHTING—#2 OFFICE	1	20	.32	.80	1	20	RECEPTACLE—WOMEN'S BATH & LUNCH ROOM	2
3	LIGHTING—#3 OFFICE	1	20	.96	.60	1	20	EAST DOOR SHUTTER	4
5	LIGHTS—SUPERVISOR'S OFFICE	1	20	.64	.80	1	20	LIGHTING SHOWER WOMEN'S	6
7	MAIN PC	1	20	.25	.65	1	20	RECEPTACLE—MEN'S GFI, HALL, #2 OFFICE	8
9	MAIN TC	1	20	.25	.30	1	20	WATER COOLER—HALL	10
11	LIGHTING—JANITOR, PHOTOCELL—PLANT	1	20	.30	.40	1	20	LIGHTING—MEN'S SHOWER	12
13	RECEPTACLE—SUPERVISOR	1	20	.72	—	1	20	SPARE	14
15	#2,3 OFFICE AND RECORDER RM, EAST/WEST WALL	1	20	.97	.60	1	20	RECEPTACLE—SO. OFFICE & SO. EXTERIOR WALL	16
17	ASSISTANT SUPERVISOR #4 OFFICE	1	20	.96	.20	1	20	EXHAUST FAN—SHOWER EAST	18
19	SPARE	1	20	—	.25	1	20	SOUND BOARDS.	20
21	SPARE	1	20	—	—	1	20	SPARE	22
23	SPACE	—	—	—	—	—	—	SPARE	24
25	SPACE	—	—	—	9	2	60	WATER HEATER	26
27	SPACE	—	—	—	—	—	—	SPARE	28
29	SPACE	—	—	—	9	2	60	WATER HEATER	30
31	SPACE	—	—	—	—	—	—	SPARE	32
33	SPACE	—	—	—	—	—	—	SPARE	34
35	SPACE	—	—	—	—	—	—	SPARE	36
37	SPACE	—	—	—	—	—	—	SPARE	38
39	SPACE	—	—	—	—	—	—	SPARE	40
41	SPACE	—	—	—	—	—	—	SPARE	42

CONNECTED LOAD: 52.38 KVA TOTAL DEMAND LOAD SECTION 1 & 2: 74.82 KVA

MAINS RATING: 225A MCB: MLO VOLTAGE: 120/208V, 3ø, 4W		PANEL "L2R" (EXISTING SEC. 2 RIGHT)					MOUNTING: SURFACE LOCATION: ELECTRICAL ROOM		
CKT NO	DESCRIPTION	BREAKERS		KVA	KVA	BREAKERS		CKT NO	
		POLE	AMPS			POLE	AMPS		
1	PROJECTOR SCREEN	1	20	.5	1.2	1	20	SPECIAL RECEPTACLE	2
3	SPARE	2	100	—	1.2	1	20	R/O UNIT PUMP—ELECTRIC ROOM	4
5	SPARE	2	100	—	1.2	1	20	R/O PUMP	6
7	CLG. MNT. PROJECTOR	1	20	.12	—	1	20	SPARE	8
9	MOTION SENSORS	1	20	.05	—	1	20	SPARE	10
11	RECEPT 109	1	20	.18	—	1	30	SPARE	12
13	RECEPT 107	1	20	.18	—	1	20	SPARE	14
15	RECEPT 107	1	20	.18	—	1	20	SPARE	16
17	SPARE	1	20	—	—	1	20	SPARE	18
19	SPARE	2	30	—	1.2	1	20	UPS	20
21	SPARE	2	30	—	1.2	1	20	UPS	22
23	FUME HOOD EXHAUST FAN (N)	1	30	1.2	—	1	20	SPARE	24
25	SPARE	1	20	—	—	1	20	SPARE	26
27	SPARE	2	30	—	—	1	20	SPARE	28
29	SPARE	2	30	—	—	—	—	SPARE	30
31	SPARE	2	20	—	—	2	30	SPARE	32
33	SPARE	—	—	—	—	—	—	SPARE	34
35	SPARE	1	20	—	—	2	30	SPARE	36
37	SPARE	1	20	—	—	—	—	SPARE	38
39	SPARE	1	20	—	—	2	30	SPARE	40
41	SPARE	1	20	—	—	1	20	SPARE	42

CONNECTED LOAD: 7.8 KVA TOTAL DEMAND LOAD SECTION 1 & 2: 33.77 KVA

**GENERAL NOTES:**

- EXISTING LOADS INDICATED ON PANEL SCHEDULES ARE FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND CONTACT ENGINEER IF DISCREPANCIES ARE FOUND.
- (N) INDICATES NEW CIRCUIT BREAKER PROVIDED AND INSTALLED BY CONTRACTOR. CIRCUIT BREAKER AIC RATINGS SHALL BE EQUAL TO OR GREATER THAN EXISTING CIRCUIT BREAKER RATINGS AND IN NO CASE LESS THAN 10,000A.
- PROVIDE REVISED PANEL SCHEDULES TO INDICATE LOADS AT PROJECT COMPLETION. REVISED PANEL SCHEDULES SHALL BE TYPED. HAND WRITTEN SCHEDULES WILL NOT BE ACCEPTED.

REVISIONS	DESCRIPTION	DATE	BY
	ISSUED FOR BIDDING	12/8/2008	

URS Corporation  
7650 West Courtney  
Campbell Causeway  
Tampa, FL 33607-1462  
No. 0000002

MICHAEL R. SAKALES, P.E. 67588

DR: BT FJF  
CK: BT KGW  
APP'D BY: FJF

SCALE: AS NOTED

DATE: NOVEMBER 2008

MANATEE COUNTY S. W. R. W. T. P.  
ADMINISTRATION BUILDING RENOVATIONS

PANELBOARD SCHEDULES

SHEET NO.
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2E6.0