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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

INTERIOR RENOVATION PROJECT
WA # 2012019.06
600 301 BOULEVARD WEST,
SUITE 108
BRADENTON, FL 34205

SHEET INDEX

CONSTRUCTION DOCUMENTS
09.29.14

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09.29.14
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"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and the applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

Michael P. Bryant
License Number
AR 0010462

AB	- ANCHOR BOLT
A/C	- AIR CONDITIONING
ACOUS	- ACOUSTICAL
ADA	- AMERICAN DISABILITY ACT
ADJ	- ADJUSTABLE
AFF	- ABOVE FINISH FLOOR
AHU	- AIR HANDLER UNIT
ALT	- ALTERNATE
ALUM	- ALUMINUM
ANOD	- ANODIZED
APPROX	- APPROXIMATE
ARCH	- ARCHITECTURAL
ATC	- ACOUSTICAL TILE CEILING
AUTO	- AUTOMATIC
AV	- AUDIO VISUAL
BD	- BOARD
BLDG	- BUIDLING
BRG	- BEARING
BRK	- BRICK
BTM	- BOTTOM
CAB	- CABINET
CAT	- CATEGORY
CER	- CERAMIC
CHAN	- CHANNEL
CI	- CAST IRON
CIP	- CAST IN PLACE
CJ	- CONTROL JOINT
CLG	- CEILING
CLO	- CLOSET
CLR	- CLEAR
CMU	- CONCRETE MASONRY UNIT
CO	- CLEAN-OUT
COL	- COLUMN
CONC	- CONCRETE
COND	- CONDENSER OR CONDITION
CONST	- CONSTRUCTION
CONT	- CONTINUOUS
COORD	- COORDINATE
CUST	- CUSTODIAL
CW	- COLD WATER
D	- DEEP, DEPTH
DBL	- DOUBLE
DEMO	- DEMOLITION
DEPT	- DEPARTMENT
DET	- DETAIL
DIA	- DIAMETER
DIM	- DIMENSION
DISP	- DISPENSER
DN	- DOWN
DR	- DOOR OR DRAIN
DS	- DOWNSPOUT
DW	- DISHWASHER
DWG	- DRAWING
E	- EAST
EA	- EACH
EB	- EXPANSION BOLT
EIFS	- EXTERIOR INSULATION FINISH SYSTEM
EJ	- EXPANSION JOINT
ELEC	- ELECTRICAL
ELEV	- ELEVATION OR ELEVATOR
EMERG	- EMERGENCY
ENCL	- ENCLOSURE
EQ	- EQUAL
EQUIP	- EQUIPMENT
EW	- EACH WAY
EWC	- ELECTRICAL WATER COOLER
EXIST	- EXISTING
EXP	- EXPANSION
EXT	- EXTERIOR
FA	- FIRE ALARM
FAAP	- FIRE ALARM ANNUNCIATOR PANEL
FACP	- FIRE ALARM CONTROL PANEL
FD	- FLOOR DRAIN
FDC	- FIRE DEPARTMENT CONNECTION
FE	- FIRE EXTINGUISHER
FEC	- FIRE EXTINGUISHER CABINET
FF	- FINISHED FLOOR
FF & E	- FURNITURE, FINISHES & EQUIPMENT
FG	- FIBERGLASS
FIN	- FINISH
FIXT	- FIXTURE
FJ	- FINGER JOINT
FLR	- FLOOR
FLUOR	- FLUORESCENT
FT	- FOOT / FEET
FTG	- FOOTING
FURN	- FURNITURE
GA	- GAUGE
GALV	- GALVANIZED
GC	- GENERAL CONTRACTOR
GL	- GLASS
GRD	- GROUND
GYPBD	- GYPSUM WALLBOARD
H	- HIGH OR HEIGHT
HB	- HOSE BIBB
HC	- HOLLOW CORE
HDW	- HARDWARE
HM	- HOLLOW METAL (STEEL FRAME)
HO	- HOLD-OPEN
HORIZ	- HORIZONTAL
HR	- HOUR
HVAC	- HEATING, VENTILATION, AIR CONDITIONING
HW	- HOT WATER
IN	- INCH
INCL	- INCLUDED OR INCLUDING
INFO	- INFORMATION
INSUL	- INSULATION
INT	- INTERIOR
INV	- INVERT
JAN	- JANITOR
JT	- JOINT
K	- KIP (1000 LBS)
KO	- KNOCKOUT
L	- LONG
LAB	- LABORATORY
LAM	- LAMINATE OR LAMINATION
LAV	- LAVATORY
LB	- POUND
LF	- LINEAR FOOT
M	- METER
MAINT	- MAINTENANCE
MAS	- MASONRY
MATL	- MATERIAL
MAX	- MAXIMUM
MC	- MEDICINE CABINET
MDF	- MEDIUM DENSITY FIBERBOARD
MDO	- MEDIUM DENSITY OVERLAY PLYWOOD
MECH	- MECHANICAL
MEZZ	- MEZZANINE
MFR	- MANUFACTURER
MICRO	- MICROWAVE
MIN	- MINIMUM
MISC	- MISCELLANEOUS
MKBD	- MARKERBOARD
MM	- MILLIMETER
MNT	- MOUNT
MO	- MASONRY OPENING
MR	- MOISTURE RESISTANT
MTL	- METAL
MUL	- MULLION
N	- NORTH
N/A	- NOT APPLICABLE
NIC	- NOT IN CONTRACT
NOM	- NOMINAL
NTS	- NOT TO SCALE
NO	- NUMBER
OC	- ON CENTER
OD	- OUTSIDE DIAMETER/DIMENSION
OFF	- OFFICE
OPNG	- OPENING
OPP	- OPPOSITE
OVHD	- OVERHEAD
PC	- PRECAST CONCRETE
PERP	- PERPENDICULAR
PH	- PHONE
PLAM	- PLASTIC LAMINATE
PLF	- POUNDS PER LINEAR FOOT
PLUMB	- PLUMBING
PLYWD	- PLYWOOD
PR	- PAIR
PREFAB	- PREFABRICATED
PROJ	- PROJECT
PSF	- POUNDS PER SQUARE FOOT
PT	- PRESSURE TREATED
QT	- QUARRY TILE
QTY	- QUANTITY
R	- RISER OR RADIUS
RA	- RETURN AIR
RCP	- REFLECTED CEILING PLAN
RD	- ROOF DRAIN
REBAR	- REINFORCING STEEL BAR
REF	- REFRIGERATOR
REINF	- REINFORCED OR REINFORCING
REQD	- REQUIRED
REV	- REVISION OR REVISED
RM	- ROOM
RO	- ROUGH OPENING
RR	- RESTROOM
RS	- ROUGH SAW
RWL	- RAIN WATER LEADER
S	- SOUTH
SAN	- SANITARY
SC	- SOLID CORE
SCHED	- SCHEDULE
SD	- STORM DRAIN OR SOAP DISPENSER
SECT	- SECTION
SF	- SQUARE FEET / FOOT
SHR	- SHOWER
SHT	- SHEET
SIM	- SIMILAR
SPEC	- SPECIFICATION
SPKLR	- SPRINKLER
SPKR	- SPEAKER
SQ	- SQUARE
SS	- STUDENT STATION OR STAINLESS STEEL
STD	- STANDARD
STL	- STEEL
STOR	- STORAGE
STRUCT	- STRUCTURAL
SUSP	- SUSPENDED
T	- TREAD OR THICKNESS
TEMP	- TEMPERED
THRU	- THROUGH
TKBD	- TACKBOARD
TS	- TUBE STEEL
TV	- TELEVISION
TYP	- TYPICAL
T&G	- TONGUE & GROOVE
UNO	- UNLESS NOTED OTHERWISE
UL	- UNDERWRITER'S LABORATORY
UR	- URINAL
VCT	- VINYL COMPOSITION TILE
VERT	- VERTICAL
VIF	- VERIFY IN FIELD
W	- WIDE OR WIDTH
W/	- WITH
WC	- WATER CLOSET
WD	- WOOD
WH	- WATER HEATER
W/O	- WITHOUT
WP	- WATERPROOFING
WT	- WEIGHT
WWM	- WELDED WIRE MESH
&	AND
∠	ANGLE
@	AT
℄	CENTER LINE
⊏	CHANNEL
°	DEGREE
□	DIAMETER OR ROUND
#	NUMBER
ℙ	PLATE
⌑	SQUARE FOOT (FEET)
⊥	STRUCTURAL TEE

ARCH/INTERIOR ABBREVIATIONS 8

A. GENERAL NOTES:

1. PROVIDE COMPLETE PROJECT SYSTEMS AND COMPONENTS INDICATED ON THE PROJECT DOCUMENTS.
2. THE CONTRACTOR SHALL WORK WITHIN THE AREA BOUNDARIES INDICATED IN THE PROJECT DOCUMENTS, AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODE, REGULATION, & ORDINANCE REQUIREMENTS. OCCUPANTS ADJACENT TO THE PROJECT AREA BOUNDARIES SHALL CONTINUE UNINTERRUPTED OCCUPANCY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY FIELD CONDITIONS AND COORDINATION WITH THE PROJECT DOCUMENTS PRIOR TO PROCEEDING WITH THE WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE WORK WITH ALL REQUIREMENTS INDICATED IN THE PROJECT DOCUMENTS.
5. THE CONTRACTOR SHALL PERFORM THE WORK AT THE PROJECT SITE DURING NORMAL BUSINESS HOURS, UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR SHALL COORDINATE THE WORK WITH EQUIPMENT, FURNISHINGS, AND SYSTEMS PROVIDED BY THE OWNER.

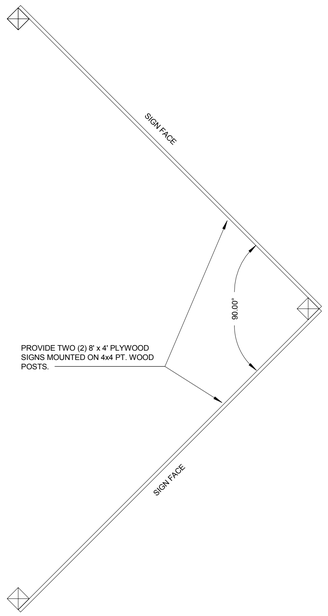
B. DEFINITIONS :

1. "TYPICAL" OR "TYP" INDICATES IDENTICAL COMPLETE SYSTEM FOR THE CONDITION NOTED.
2. "SIMILAR" OR "SIM" INDICATES COMPLETE SYSTEM AND COMPONENTS COMPARABLE TO THE CHARACTERISTICS FOR THE CONDITION NOTED.
3. "AS REQUIRED" OR "REQ'D" INDICATES CONTRACTOR SHALL PROVIDE COMPONENTS REQUIRED TO COMPLETE THE NOTED SYSTEM AS INDICATED IN THE PROJECT DOCUMENTS.
4. "ALIGN" INDICATES ACCURATELY PROVIDE FINISH FACES OF MATERIALS IN STRAIGHT, TRUE, AND PLUMB RELATION ADJACENT MATERIALS.

C. DIMENSIONS:

1. DIMENSIONS ARE INDICATED TO THE CENTERLINE OF THE STRUCTURAL GRID, FACE OF UNFINISHED CONCRETE WALL, NOMINAL FACE OF C.M.U. WALL OR FACE OF UNFINISHED PARTITION AS SCHEDULED, UNLESS OTHERWISE NOTED.
2. ALIGNMENT OF PARTITIONS AND FINISHES AS SCHEDULED SHALL BE STRAIGHT, TRUE & PLUMB. ANY DISCREPANCY IN DIMENSIONS BETWEEN PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.
3. MINIMUM DIMENSIONS FOR ACCESSIBILITY CLEARANCES AND BUILDING CODE REQUIREMENTS SHALL BE MAINTAINED.
4. FLOOR ELEVATIONS ARE INDICATED AT THE FACE OF THE STRUCTURAL SLAB, UNLESS OTHERWISE NOTED.
5. CEILING HEIGHTS ARE INDICATED FROM THE FLOOR ELEVATION TO THE FACE OF OF FINISH MATERIAL, UNO.
6. DOOR JAMBS IN STUD WALLS SHALL BE LOCATED 4 INCHES FROM ADJACENT WALLS UNO. DOOR JAMBS IN CMU WALLS SHALL BE LOCATED 8 INCHES FROM ADJACENT WALLS UNO.

GENERAL NOTES 7



"4' X 8' JOB SIGN TO BE FURNISHED BY THE CONTRACTOR WITH APPROPRIATE LOGO AND INFORMATION AT TIME OF ACCEPTANCE. ARCHITECT TO COORDINATE SIGN DESIGN, SIZE OF LETTERING AND LOCATION OF SIGN WITH CONTRACTOR"

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SIGNAGE 6

A. THE DRAWINGS IN THIS SET ARE ORGANIZED AS FOLLOWS:
EACH DRAWING IS IDENTIFIED BY THE SHEET NUMBER IN THE LOWER RIGHT HAND CORNER OF THE TITLEBLOCK.
EXAMPLE: A312

1. DISCIPLINE: THE FIRST LETTER INDICATES THE DISCIPLINE THAT CREATED THE DRAWING (I.E. A = ARCHITECTURAL).
2. DETAIL IDENTIFICATION: THE LETTER OR NUMBER AT THE END OF A DETAIL REFERENCE SYMBOL A1/A801 INDICATES REFERENCE TO A SPECIFIC DRAWING OR DETAIL POSITION ON THE SHEET.

B. DISCIPLINES ARE ORGANIZED IN THE FOLLOWING MANNER (AS REQUIRED):

C.	CIVIL
L.	LANDSCAPE
IR.	IRRIGATION
A.	ARCHITECTURAL
I.	INTERIORS
S.	STRUCTURAL
FS.	FOOD SERVICES
M.	MECHANICAL / HVAC
P.	PLUMBING
F.	FIRE PROTECTION
E.	ELECTRICAL
T.	TECHNOLOGY / DATA DISTRIBUTION

C. CATEGORIES ARE ORGANIZED IN THE FOLLOWING MANNER (AS REQUIRED):

A0	GENERAL
A1	ARCHITECTURAL SITE PLAN
A2	LIFE SAFETY
A3.0	OVERALL FLOOR PLAN
A3.1.1	PHASE ONE DEMO & FLOOR PLAN
A3.1.2	PHASE ONE REFLECTED CEILING & FURNITURE PLAN
A3.2.1	PHASE TWO DEMO & FLOOR PLAN
A3.2.2	PHASE TWO REFLECTED CEILING & FURNITURE PLAN
A3.3.1	PHASE THREE DEMO & FLOOR PLAN
A3.3.2	PHASE THREE REFLECTED CEILING & FURNITURE PLAN
A5	EXTERIOR ELEVATIONS
A7	WALL TYPES
A8	DOOR & WINDOW
A9	LARGE SCALE FLOOR PLANS & INTERIOR ELEVATIONS
A9.7	DETAILS

DRAWING ORGANIZATION 5

EARTH
STUCCO
PLYWOOD, SHEATHING
CONCRETE
RIGID INSULATION
CONCRETE MASONRY UNIT
METAL STUD FRAMING
SAND, GYPSUM WALLBOARD

MATERIAL INDICATIONS 4

WALL TO BE REMOVED
EXISTING WALL TO REMAIN
NEW METAL STUD
NEW CONCRETE BLOCK WALL
NEW CONCRETE BLOCK WALL WITH INSULATION, FURING AND GYP.

DIMENSIONING:

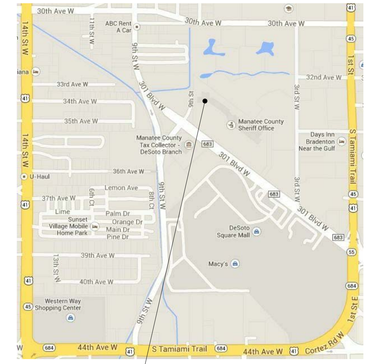
MASONRY — STUD

ALL DIMENSIONS ARE FROM FACE OF STUD (IN FRAMED PARTITIONS), OR FACE OF MASONRY (IN MASONRY PARTITIONS). (UNLESS OTHERWISE NOTED)

WALL LEGEND 3

NORTH ARROW
SEE SHEET / SEE SHEET — MATCH LINE
CJ — CONTROL JOINT
131 — CASED OPENING
EXISTING DOOR TO BE REMOVED OR RELOCATED AS INDICATED
EXIST — EXISTING DOOR TO REMAIN
131 — NEW DOOR, FRAME AND HARDWARE AND DOOR TAG ON PLAN
131 — DOOR TAG ON ELEVATIONS
A — WINDOW TAG
9'-0" — CEILING HEIGHT
SUPPLY ROOM — ROOM NAME
203 — ROOM NUMBER
1 A 1 B — ROOM FINISH SCHEDULE
1 / 2 A10. 3 / 4 — 1 / A10. — INTERIOR ELEVATION AND SHEET NUMBER
2 / A6.2 — BUILDING / WALL SECTION CUT AND SHEET NUMBER
1 / A6.1 — DETAIL CUT AND SHEET NUMBER
WALL TYPE
1 — TOILET ACCESSORY
A 2 — SPECIAL ACCESSORY TAGS
EL 8'-0" ROOF JOIST BEARING — ELEVATION BENCHMARK
1 — REVISION MARK WITH CLOUD
INDICATES FINISHED SURFACES TO ALIGN
A / 1 — COLUMN AND / OR GRID LINE SYMBOL

SYMBOLS 2



LOCATION MAP 1

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NOTES, SYMBOLS, & ABBREVIATIONS

Project No.	2013019.06
Drawn By	Author
Checked By	Checker
Date	09.29.14

Revisions:

Richard W. Fawley
AR 0010008

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CONSTRUCTION DOCUMENTS

A0.1

Originals printed @ 24" x 36" scale as required

E:_Working\2013019.06 Supervisor of Elections\Drawings\4 Construction Documents\Revit Files\Supervisor of Elections Phase 2 and 3.rvt
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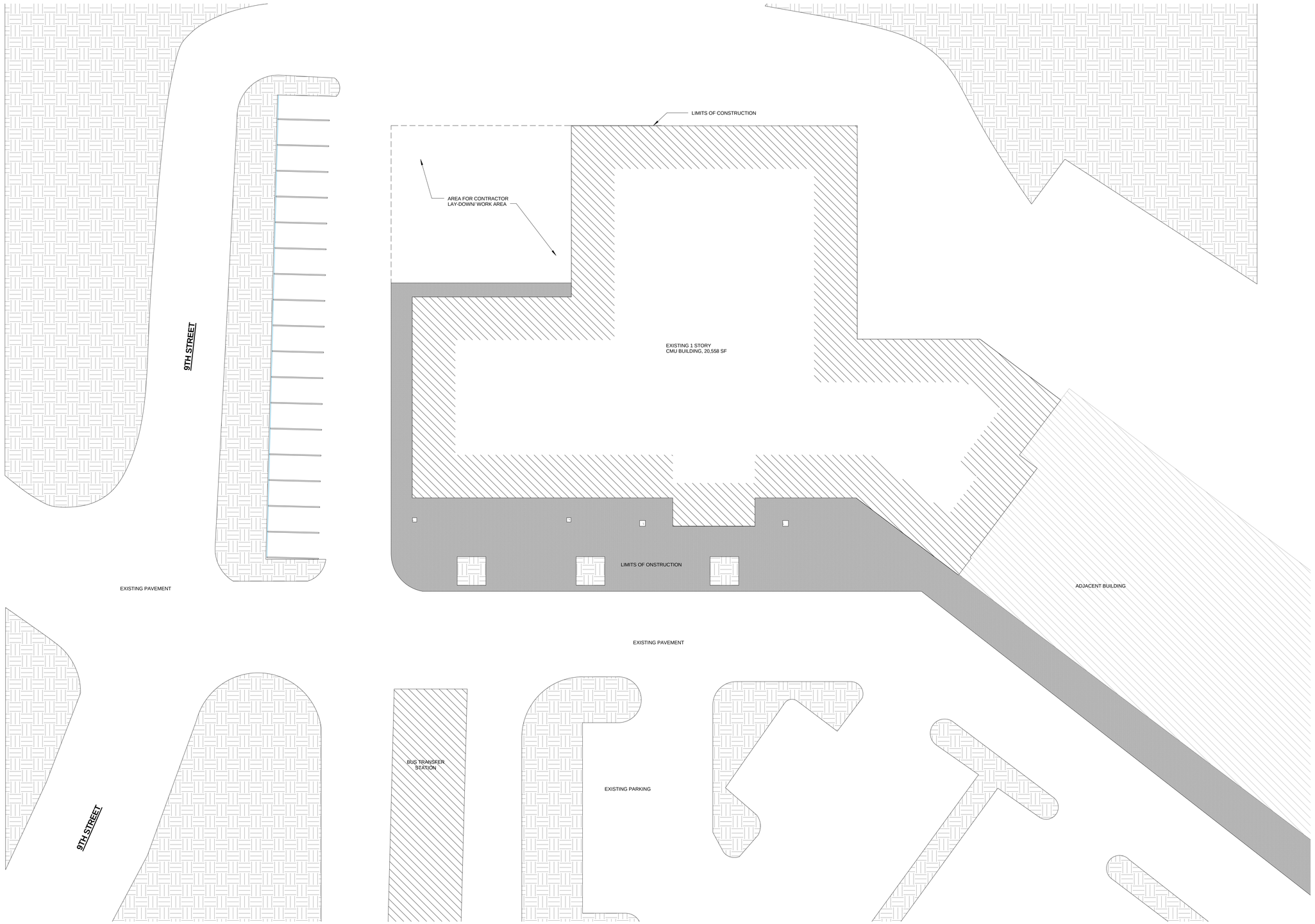

ARCHITECTURAL SITE PLAN 1

1/16" = 1'-0"

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ARCHITECTURAL SITE PLAN

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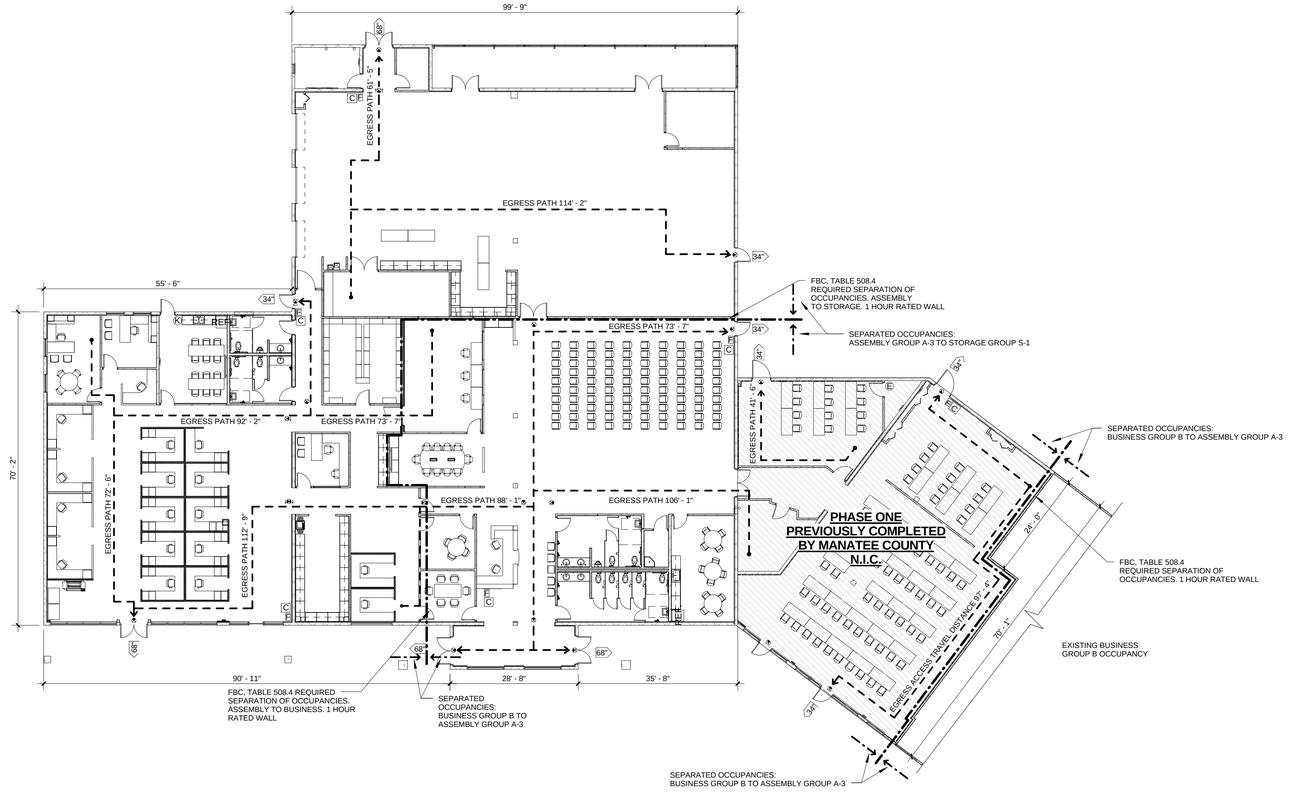

LIFE SAFETY PLAN 2

1/16" = 1'-0"

EGRESS LEGEND

3'-0" DOOR	34"	34" / .20" PER OCCUPANT = 170 OCCUPANTS TOTAL
PAIR 3'-0" DOOR	68"	68" / .20" PER OCCUPANT = 340 OCCUPANTS TOTAL
4'-0" DOOR	46"	46" / .20" PER OCCUPANT = 230 OCCUPANTS TOTAL
PAIR 4'-0" DOOR	92"	92" / .20" PER OCCUPANT = 460 OCCUPANTS TOTAL

SIGNAGE LEGEND

PROVIDE CODE MINIMUM SIGNAGE

LINE TYPE AND SYMBOL LEGEND

- EMERGENCY EXIT SIGN
- F — FIRE ALARM PULL STATION
- SMOKE RATED WALL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- EGRESS PATH

FIRE EXTINGUISHER LEGEND

GENERAL / MULTI-PURPOSE

B — FIRE EXTINGUISHER - BRACKET MOUNTED

TYPICAL BRACKET MOUNTED FIRE EXTINGUISHER TO BE A MINIMUM UL RATING OF 2A WITH 75' TRAVEL DISTANCE - PROVIDE LARSEN'S MFG., MP5-A WITH UL RATING OF 3A-40B:C OR EQUAL

C — FIRE EXTINGUISHER - SEMI RECESSED MOUNTED

CABINET SEMI-RECESSED FIRE EXTINGUISHER TO BE A MINIMUM UL RATING OF 2A WITH 75' TRAVEL DISTANCE - PROVIDE LARSEN'S MFG., MP5-A WITH UL RATING OF 3A-40B:C OR EQUAL

ELECTRICAL ROOMS

E — FIRE EXTINGUISHER - BRACKET MOUNTED

TYPICAL BRACKET MOUNTED FIRE EXTINGUISHER TO BE A MINIMUM UL RATING OF 2A WITH 75' TRAVEL DISTANCE - PROVIDE LARSEN'S MFG., HT5 WITH UL RATING OF 5B:C OR EQUAL

KITCHEN

K — FIRE EXTINGUISHER - BRACKET MOUNTED

TYPICAL BRACKET MOUNTED FIRE EXTINGUISHER TO BE A MINIMUM UL RATING OF K WITH 30' TRAVEL DISTANCE - PROVIDE LARSEN'S MFG., WC-6L WITH UL RATING OF 2A:K OR EQUAL

NOTES

NOTE:

1. FIRE EXTINGUISHERS AND CABINETS TO BE PROVIDED AND INSTALLED BY CONSTRUCTION MANAGER.

2. FIRE EXTINGUISHER SELECTION AND INSTALLATION SHALL COMPLY WITH 2007 NFPA 10

3. FIRE EXTINGUISHERS SHALL BE MOUNTED AT A MAX HEIGHT OF 48" TO THE HANDLE OF THE EXTINGUISHER.

LIFE SAFETY LEGEND

1/8" = 1'-0"

BUILDING CODE ANALYSIS

CODE

CODE REFERENCES	FLORIDA BUILDING CODE 2010 FBC PLUMBING CODE 2010 FBC MECHANICAL CODE 2010 FLORIDA FIRE PREVENTION CODE 2010 2011 NEC

BUILDING

USE AND OCCUPANCY CLASSIFICATION (CHAPTER 3)	**BUSINESS GROUP B**
ALLOWABLE HEIGHT (CHAPTER 5 - TABLE 503)	BUSINESS B (TYPE II-B) ALLOWABLE HEIGHT: 3 STORIES, 55 FT.
ACTUAL HEIGHT	ACTUAL HEIGHT: **1 STORY**
ALLOWABLE AREA (CHAPTER 5 - TABLE 503)	BUSINESS GROUP B: ALLOWABLE AREA: 23,000 S.F. PER STORY
ACTUAL AREA	ACTUAL AREA: TOTAL GROSS **20,558 S.F.**
508.4 SEPARATED OCCUPANCIES	508.4 SEPARATED OCCUPANCIES BUSINESS GROUP B STORAGE GROUP S-1 ASSEMBLY GROUP A-3
TYPE OF CONSTRUCTION (CHAPTER 6)	**TYPE II-B**
AUTOMATIC FIRE SPRINKLER SYSTEM	**PROVIDED**

FIRE RESISTANCE

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (TABLE 601)	TYPE II-B
STRUCTURAL FRAME - INCLUDING COLUMNS, GIRDERS, TRUSSES	0 HOURS
BEARING WALLS EXTERIOR INTERIOR	0 HOURS 0 HOURS
NONBEARING WALLS AND PARTITIONS INTERIOR	0 HOURS
FLOOR CONSTRUCTION - INCLUDING SUPPORTING BEAMS AND JOISTS	0 HOURS
ROOF CONSTRUCTION - INCLUDING SUPPORTING BEAMS AND JOISTS	0 HOURS

MEANS OF EGRESS

OCCUPANT LOAD: (TABLE 1004.1.1)	MAXIMUM FLOOR AREA PER OCCUPANT BY OCCUPANCY BUSINESS AREA 100 GROSS BUSINESS OCCUPANTS 6,890 GROSS SF/ 100 GROSS = 69 PERSONS STORAGE AREA 300 GROSS STORAGE OCCUPANTS 6,070 GROSS SF/ 300 GROSS = 21 PERSONS ASSEMBLY CONCENTRATED AREA 7 NET ASSEMBLY OCCUPANTS 2,445 GROSS SF/ 7 NET = 350 PERSONS ASSEMBLY UNCONCENTRATED AREA 15 NET ASSEMBLY OCCUPANTS 3,929 GROSS SF/ 15 NET = 262 PERSONS TOTAL NUMBER OF OCCUPANTS 702
EGRESS WIDTH PER OCCUPANT SERVED (TABLE 1005.1)	OTHER EGRESS 0.2 (INCHES PER OCCUPANT) COMPONENTS 0.2 (37) = 140.4" REQUIRED **476" PROVIDED**
EXIT ACCESS TRAVEL DISTANCE (TABLE 1016.1)	MAXIMUM EGRESS DISTANCE 300' (WITH SPRINKLER SYSTEM)
EXIT ACCESS (SECTION 1014) COMMON PATH OF TRAVEL (SECTION 1014.3)	EXCEPTION 1: THE COMMON PATH OF TRAVEL SHALL NOT EXCEED 100 FEET
CORRIDORS (SECTION 1018.2)	DEAD END CORRIDORS OVER 50' IN LENGTH NOT ALLOWED

PLUMBING

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES: (TABLE 403.1)

BUSINESS

W.C.		LAVATORY		UNISEX RR	D.F.	SERVICE SINK
M	F	M	F	M/F		
1	1	1	1	0	1	0

PLUMBING FIXTURES PROVIDED (BUSINESS):

W.C.		LAVATORY		UNISEX RR
M	F	M	F	M/F
2	2	2	2	0

PLUMBING CALCULATIONS
69 OCCUPANTS/ 2 = 35 OCCUPANTS PER SEX
W.C. - 1 PER 25 FOR THE FIRST 50, 1 PER 50 BALANCE = 1 W.C. PER SEX
LAV - 1 PER 40 FOR THE FIRST 80, 1 PER 80 BALANCE = 1 LAV PER SEX
D.F. - 1:100 - 1 REQUIRED
S.S. - NOT REQUIRED

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES: (TABLE 403.1)

ASSEMBLY A-3

W.C.		LAVATORY		UNISEX RR	D.F.	SERVICE SINK
M	F	M	F	M/F		
3	5	2	2	0	1	1

PLUMBING FIXTURES PROVIDED (ASSEMBLY A-3):

W.C.		LAVATORY		UNISEX RR
M	F	M	F	M/F
3	5	2	2	1

PLUMBING CALCULATIONS
612 OCCUPANTS/ 2 = 306 OCCUPANTS PER SEX
W.C. MALE- 1 PER 125
W.C. FEMALE- 1 PER 65
LAV - 1 PER 200
D.F. - 1:100 - 1 REQUIRED
S.S. - NOT REQUIRED

CODE ANALYSIS

12" = 1'-0"

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

600 301 BOULEVARD WEST, SUITE 108, BRADENTON, FL 34205

LIFE SAFETY PLAN & CODE ANALYSIS

Project No.	2013019.06
Drawn By	JBT
Checked By	JBT
Date	09.29.14

Revisions:

Richard W. Fawley
AR 0010008

"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

CONSTRUCTION DOCUMENTS

A2.0

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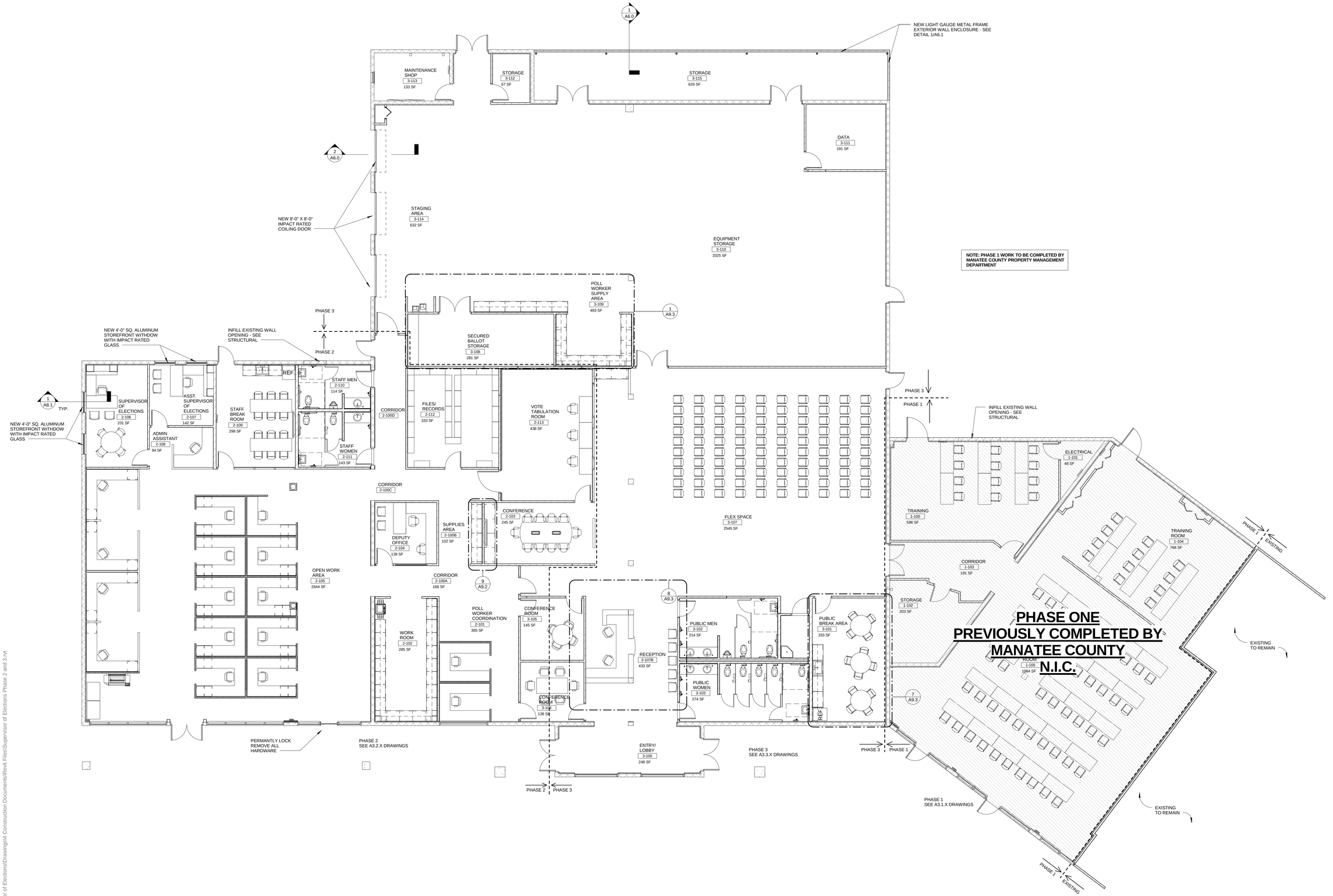

OVERALL FLOOR PLAN 1

1/8" = 1'-0"

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

600 301 BOULEVARD WEST, SUITE 108, BRADENTON, FL 34205

OVERALL FLOOR PLAN

Project No.	2013019.06
Drawn By	Author
Checked By	Checker
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CONSTRUCTION DOCUMENTS

A3.0

Originals printed @ 24" x 36" scale as required

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GENERAL DEMOLITION NOTES:

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TYPICAL DEMOLITION LEGEND:

D1- REMOVE EXISTING DOOR AND FRAME

D2- REMOVE EXISTING PARTITION

D3- REMOVE EXISTING FLOOR FINISH TO CONCRETE SLAB

D4- REMOVE EXISTING CEILING GRID, TILES, AND SUSPENSION WIRE

D5- REMOVE EXISTING PLUMBING FIXTURES- CAP EXISTING PLUMBING AS REQUIRED

D6- CUT AND REMOVE EXISTING SLAB AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION

D7- CAP AND FILL EXISTING FLOOR DRAIN

D8- REMOVE PORTION OF EXISTING WALL TO ACCOMMODATE NEW CONSTRUCTION. IF WALL IS BEARING, CONSULT STRUCTURAL DRAWINGS.

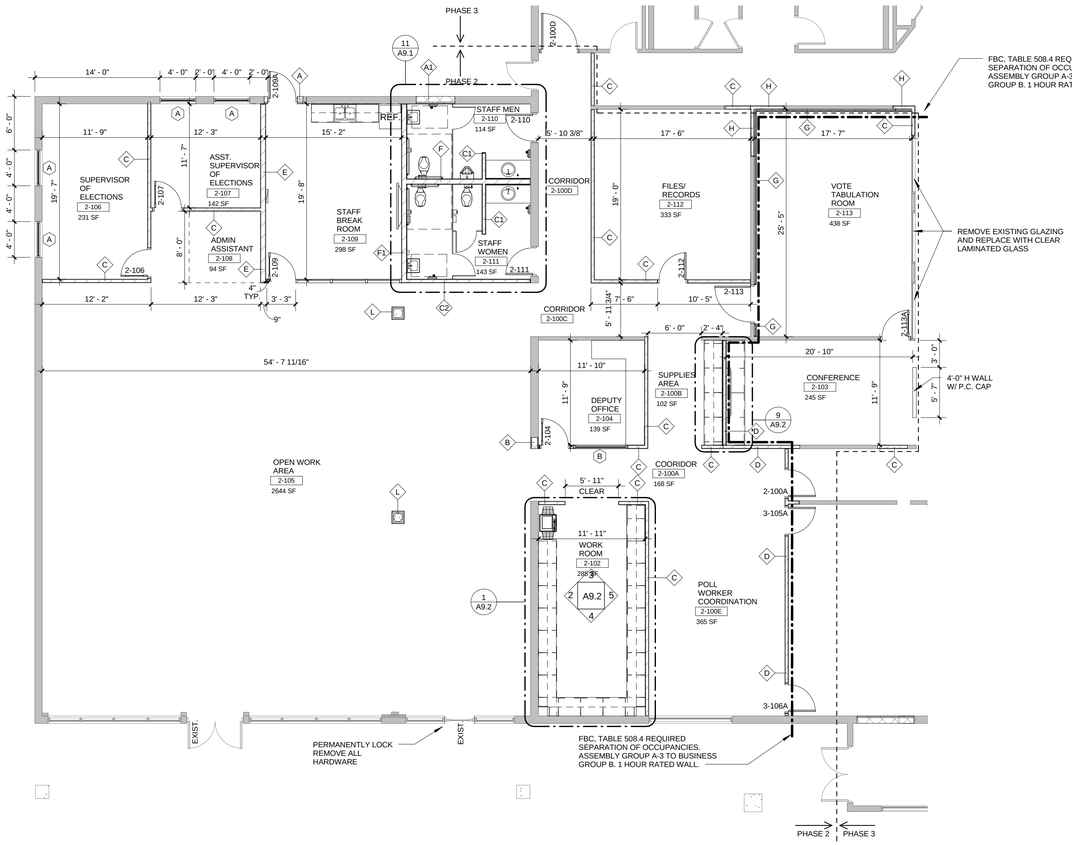
D9- REMOVE EXISTING ELECTRICAL DRYER

D10- REMOVE WINDOW FRAME AND GLAZING

D11- REMOVE EXISTING CASEWORK

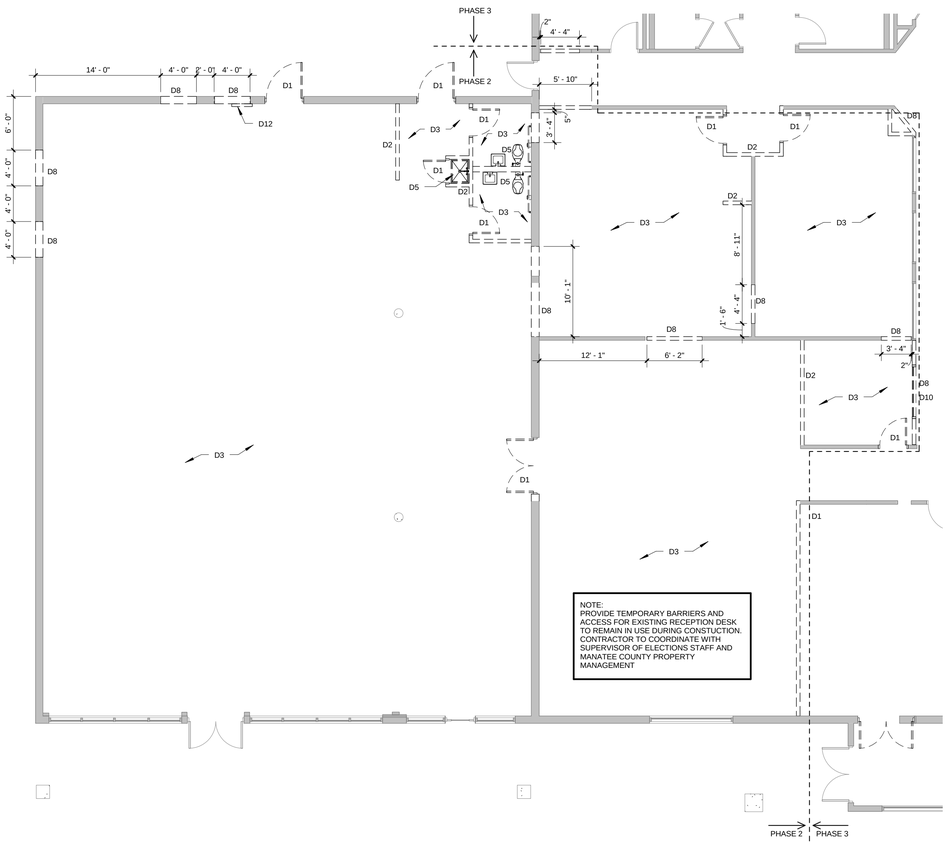
D12- REMOVE EXISTING ELECTRICAL PANEL

D13- REMOVE EXISTING DOOR. TEMPORARILY FRAME IN OPENING



PHASE TWO FLOOR PLAN | 2

1/8" = 1'-0"



PHASE TWO DEMO PLAN | 1

1/8" = 1'-0"

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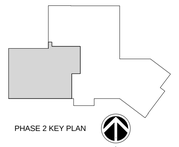

MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

600 301 BOULEVARD WEST, SUITE 108, BRADENTON, FL 34205

PHASE TWO DEMO & FLOOR PLAN

Project No.	2013019.06
Drawn By	Author
Checked By	Checker
Date	09.29.14

Revisions:

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CONSTRUCTION DOCUMENTS

A3.2.1

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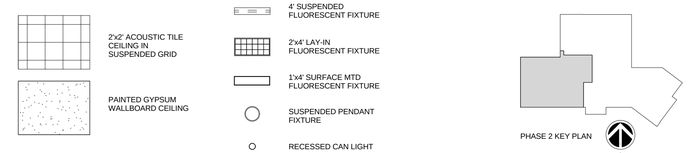
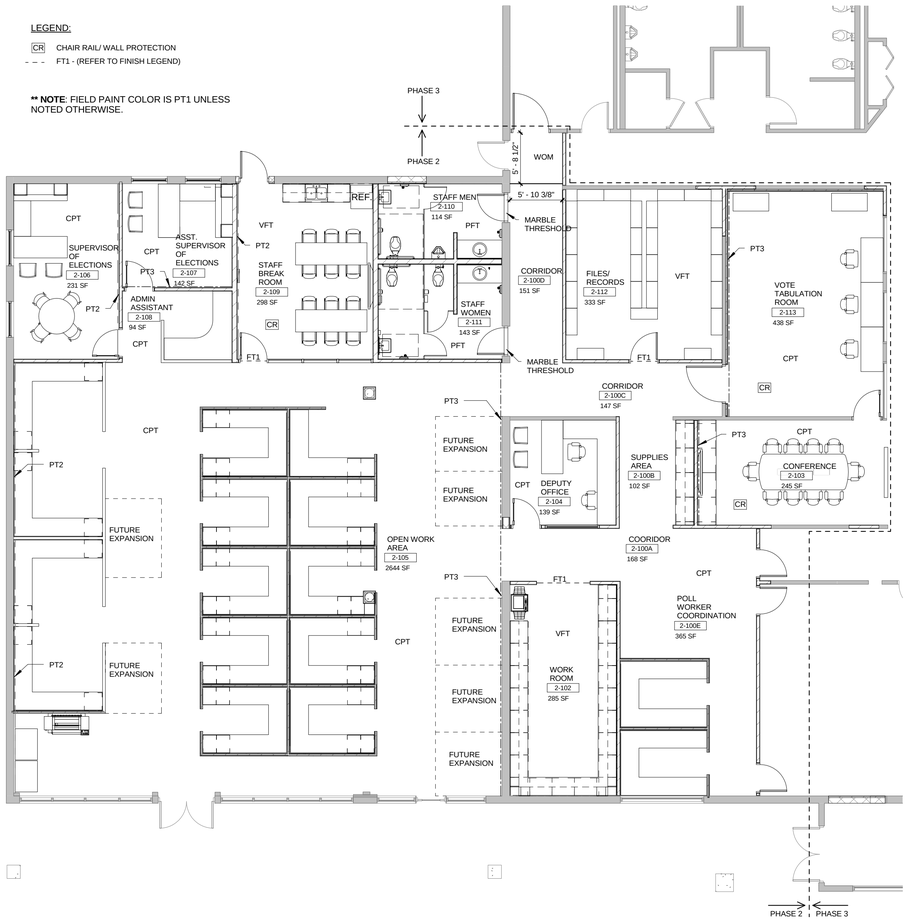


LEGEND:

CR CHAIR RAIL/ WALL PROTECTION

FT1 - (REFER TO FINISH LEGEND)

**** NOTE**: FIELD PAINT COLOR IS PT1 UNLESS NOTED OTHERWISE.

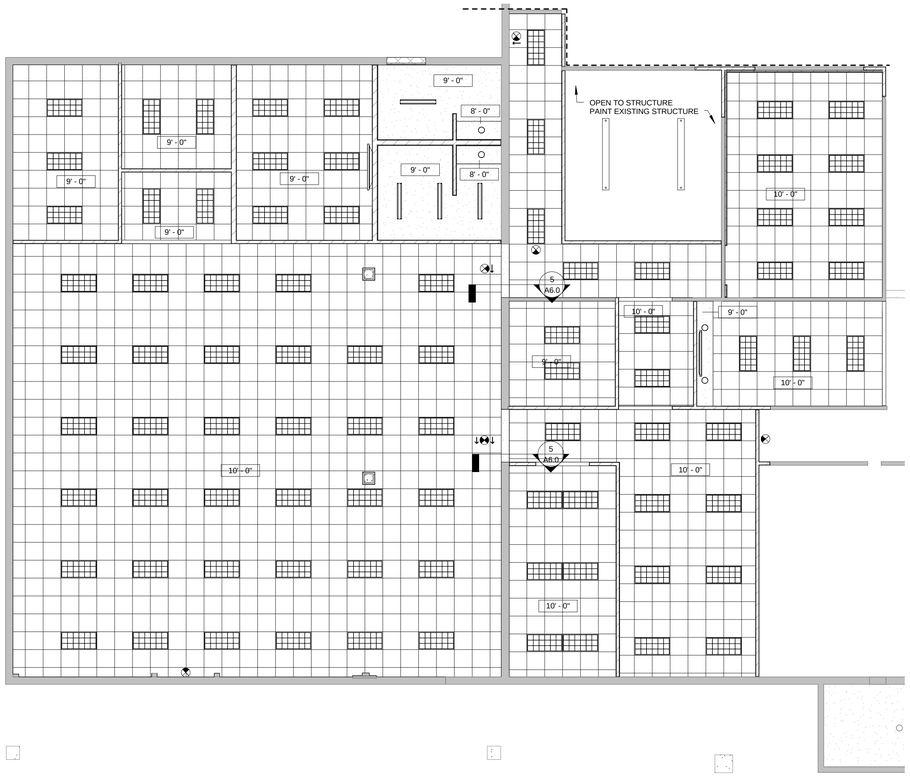


PHASE TWO FURNITURE & FINISH PLAN | 1

1/8" = 1'-0"

CEILING LEGEND

1/8" = 1'-0"



PHASE TWO REFLECTED CEILING PLAN | 2

1/8" = 1'-0"

MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

600 301 BOULEVARD WEST, SUITE 108, BRADENTON, FL 34205

PHASE TWO REFLECTED CEILING PLAN & FURNITURE PLAN

Project No.	2013019.06
Drawn By	JBT
Checked By	JBT
Date	09.29.14

Revisions:

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CONSTRUCTION DOCUMENTS

A3.2.2

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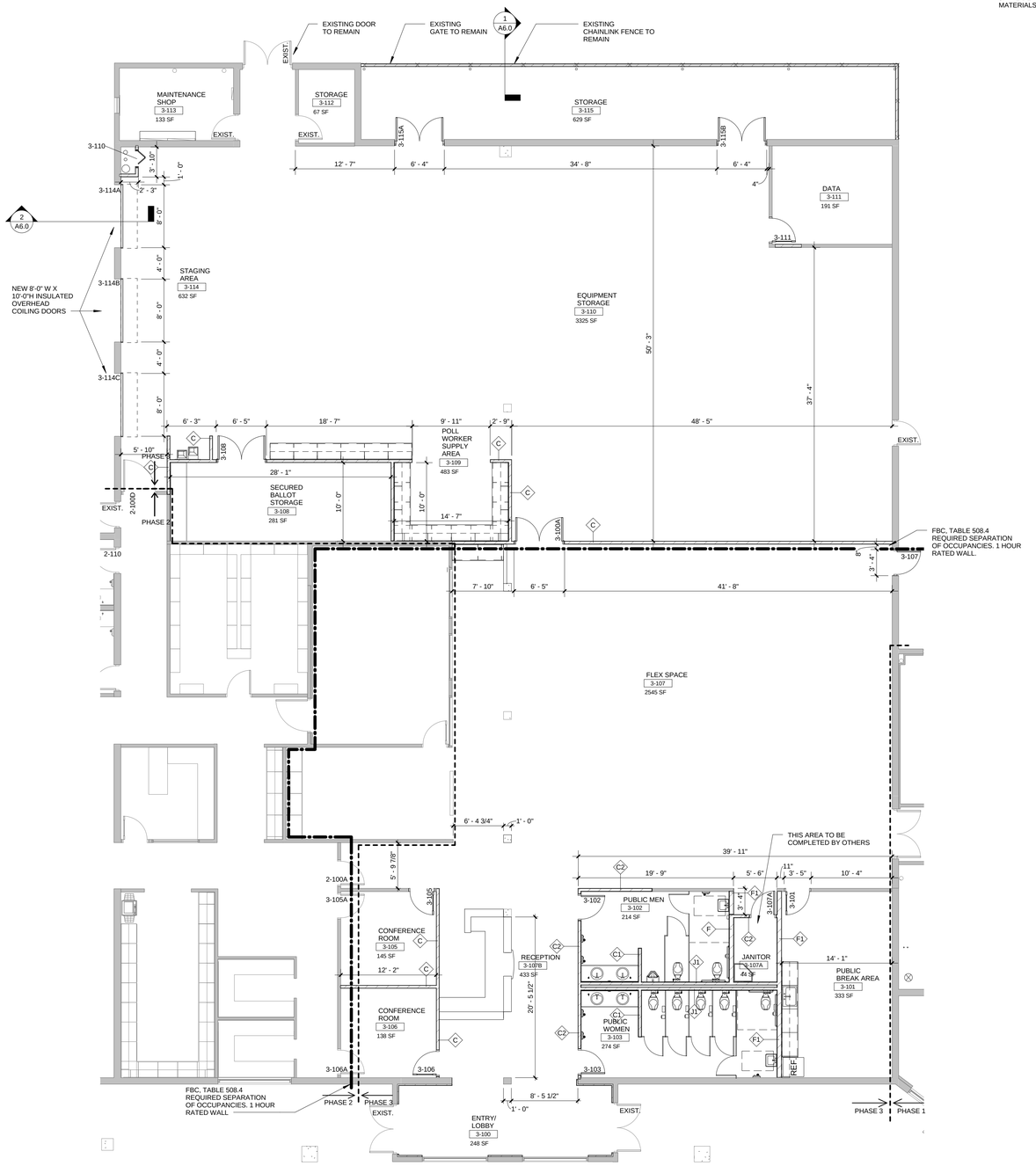
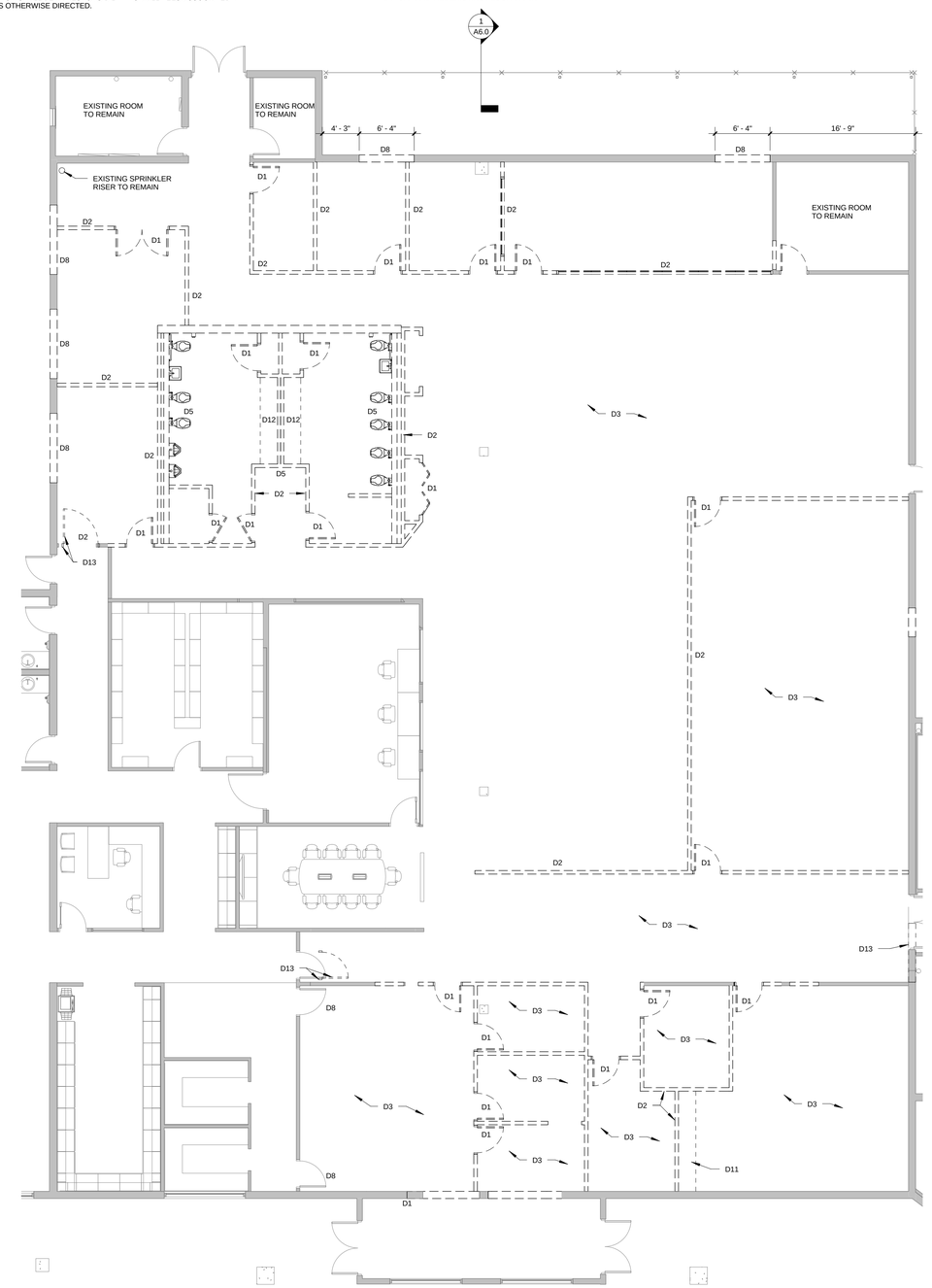


PHASE THREE FLOOR PLAN | 2

1/8" = 1'-0"



PHASE THREE DEMO FLOOR PLAN | 1

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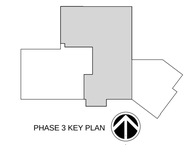

MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

600 301 BOULEVARD WEST, SUITE 108, BRADENTON, FL 34205

PHASE THREE DEMO & FLOOR PLAN

Project No.	2013019.06
Drawn By	Author
Checked By	Checker
Date	09.29.14

Revisions:

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CONSTRUCTION DOCUMENTS

A3.3.1

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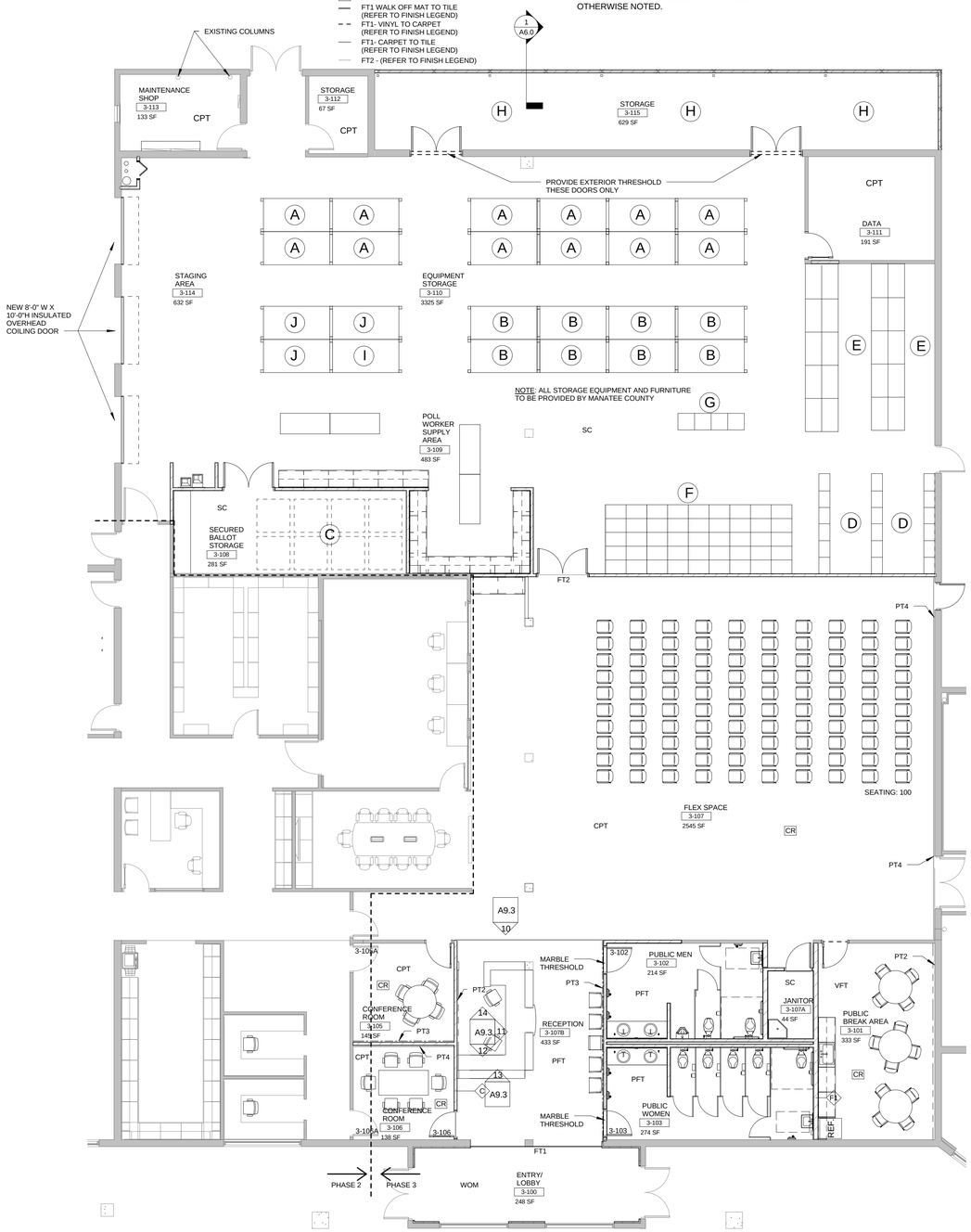
EQUIPMENT STORAGE LEGEND

A	16 BALLOT BOXES (FLOOR) 16 PRECINT BOXES (RACK)	F	VOTING BOOTHS
B	18 EVID MACHINES (FLOOR) 18 EVID MACHINES (RACK)	G	CARBOARD/ PLASTIC VOTING SHIELDS
C	BALLOT STORAGE (8 PALLETS)	H	SIGNS/ CONES/ EXTERIOR ITEMS
D	TSX CHARGING RACKS	I	SECRECY FOLDERS
E	TSX CHARGING CARTS (24X48)	J	OTHER EQUIPMENT STORAGE

LEGEND:

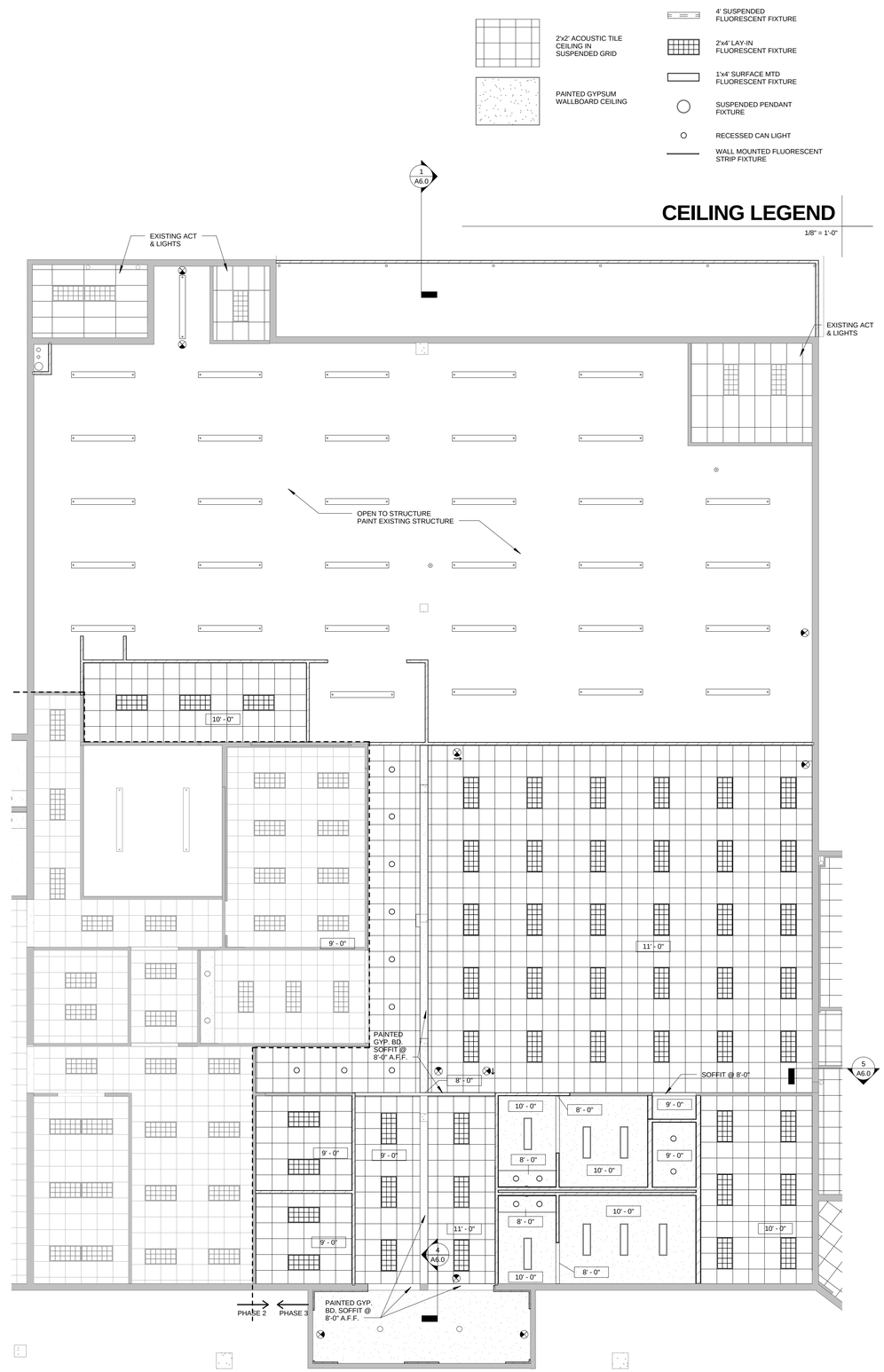
- CR — CHAIR RAIL/ WALL PROTECTION
- FT1 WALK OFF MAT TO TILE (REFER TO FINISH LEGEND)
- FT1- VINYL TO CARPET (REFER TO FINISH LEGEND)
- FT1- CARPET TO TILE (REFER TO FINISH LEGEND)
- FT2 - (REFER TO FINISH LEGEND)

****NOTE:** FIELD PAINT COLOR IS PT1 UNLESS OTHERWISE NOTED.



PHASE THREE FURNITURE & FINISH PLAN | 1

1/8" = 1'-0"



CEILING LEGEND

1/8" = 1'-0"

PHASE THREE REFLECTED CEILING PLAN | 2

1/8" = 1'-0"

PHASE 3 KEY PLAN

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PHASE THREE REFLECTED CEILING PLAN & FURNITURE PLAN

Project No.	2013019.06
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CONSTRUCTION DOCUMENTS

A3.3.2

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FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR		WALLS				CEILING	REMARKS
		FINISH	BASE	NORTH	EAST	SOUTH	WEST	FINISH	
2-100A	CORRIDOR	CPT	VB	PT 1	PT 1	PT 1	PT 1	ACT	
2-100B	SUPPLIES AREA	CPT	VB	PT 1	PT 1	PT 1	PT 1	ACT	
2-100C	CORRIDOR	CPT	VB	PT 1	PT 1	PT 1	PT 1	ACT	
2-100D	CORRIDOR	CPT	VB	PT 1	PT 1	PT 1	PT 1	ACT	
2-101	POLL WORKER COORDINATION	CPT	VB	PT 1	PT 1	PT 1	PT 1	ACT	
2-102	WORK ROOM	VFT	VB	PT 1	PT 1	PT 1	PT 1	ACT	
2-103	CONFERENCE	CPT	VB	PT 1	PT 1	PT 1	PT 3	ACT	
2-104	DEPUTY OFFICE	CPT	VB	PT 1	PT 1	PT 1	PT 1	ACT	
2-105	OPEN WORK AREA	CPT	VB	PT 1	PT 3	PT 1	PT 1	ACT	
2-106	SUPERVISOR OF ELECTIONS	CPT	VB	PT 1	PT 2	PT 1	PT 1	ACT	
2-107	ASST. SUPERVISOR OF ELECTIONS	CPT	VB	PT 1	PT 1	PT 3	PT 1	ACT	
2-108	ADMIN ASSISTANT	CPT	VB	PT 1	PT 1	PT 1	PT 1	ACT	
2-109	STAFF BREAK ROOM	VFT	VB	PT 1	PT 1	PT 1	PT 2	ACT	
2-110	STAFF MEN	PFT	PTB	CTA	CTA	CTA	CTA	GYP	REFER TO SHEET 10/A9.1 FOR TILE PATTERN
2-111	STAFF WOMEN	PFT	PTB	CTA	CTA	CTA	CTA	GYP	REFER TO SHEET 10/A9.1 FOR TILE PATTERN
2-112	FILES/ RECORDS	VFT	VB	PT 1	PT 1	PT 1	PT 1	ACT	
2-113	VOTE TABULATION ROOM	CPT	VB	PT 1	PT 1	PT 1	PT 3	ACT	
3-100	ENTRY/ LOBBY	WOM	VB	PT 1	PT 1	PT 1	PT 1	ACT	
3-101	PUBLIC BREAK AREA	VFT	VB	PT 1	PT 2	PT 1	PT 1	ACT	
3-102	PUBLIC MEN	PFT	PTB	CTA	CTA	CTA	CTA	GYP	REFER TO SHEET 10/A9.1 FOR TILE PATTERN
3-103	PUBLIC WOMEN	PFT	PTB	CTA	CTA	CTA	CTA	GYP	REFER TO SHEET 10/A9.1 FOR TILE PATTERN
3-105	CONFERENCE ROOM	CPT	VB	PT 1	PT 1	PT 3	PT 1	ACT	
3-106	CONFERENCE ROOM	CPT	VB	PT 4	PT 1	PT 1	PT 1	ACT	
3-107	FLEX SPACE	CPT	VB	PT 1	PT 4	PT 1	PT 1	ACT	
3-107A	JANITOR	SC	VB	PT1	PT1	PT1	PT1	GYP	
3-107B	RECEPTION	PFT	PTB	----	PT 3	PT 1	PT 1/ PT 2	ACT	
3-108	SECURED BALLOT STORAGE	SC	----	EPX PT	EPX PT	EPX PT	EPX PT	ACT	
3-109	POLL WORKER SUPPLY AREA	SC	----	EPX PT	EPX PT	EPX PT	EPX PT	OPEN	
3-110	EQUIPMENT STORAGE	SC	----	EPX PT	EPX PT	EPX PT	EPX PT	OPEN	
3-111	DATA	CPT	VB	EPX PT	EPX PT	EPX PT	EPX PT	ACT	
3-112	STORAGE	CPT	VB	EPX PT	EPX PT	EPX PT	EPX PT	ACT	
3-113	MAINTENANCE SHOP	CPT	VB	EPX PT	EPX PT	EPX PT	EPX PT	ACT	
3-114	STAGING AREA	SC	VB	EPX PT	EPX PT	EPX PT	EPX PT	OPEN	
3-115	STORAGE	SC	----	EPX PT	EPX PT	EPX PT	EPX PT	OPEN	

INTERIOR MATERIAL LEGEND

FLOORING

CPT Carpet Tile
Manufacturer: Mohawk Group
Style: Design Scene II GT105
Color: 334 Vestiges
Size: 24" x 24"
Installation: Quarter Turn

PFT Porcelain Floor Tile
Manufacturer: Trinity
Style: Thread
Color: Twill
Size: 12" x 24"
Installation: Staggered joints at 1/3 intervals; install on medium mortar bed
Urethane Grout
Grout joints: 3/16"
Manufacturer: QuartzLock
Color: 370 Raincloud Gray

VFT Vinyl Floor Tiles
Manufacturer: Shaw Hard Surface
Style: Jeogori 0215V
Color: Linen 90500
Size: 18" x 18"

WOM Walk Off Mat (Vestibule)
Manufacturer: Tandus
Style: Abrasive Action II 02578
Color: Asphalt 19102
Installation: Direct Glue

SC Sealed Concrete

FLOORING TRANSITIONS

FT1 Vinyl to Carpet / Walk off Mat to Tile / Carpet to Tile
Manufacturer: Schluter
Style: Schluter RENO-U
Finish: Aluminum

FT2 Carpet to Concrete
Manufacturer: Johnsonite
Style: SSR-XX-B
Color: 29 Moon Rock WG

FT3 Walk off Mat to Concrete
Manufacturer: Johnsonite
Style: CTA-XX-PL
Color: 29 Moon Rock WG

FT4 Walk off Mat to Carpet
No Transition

FT5 Marble Thresholds at Restrooms

WALL BASE

VB 4" Vinyl Wall Base
Manufacturer: Johnsonite
Style: Straight base at carpets, cove base at vinyl floors
Color: 29 Moon Rock WG

PTB Porcelain Tile Wall Base
Manufacturer: Trinity
Style: Thread
Color: Twill
Size: 6" x 24" cut to 6" x 12"
Top cap: Aluminum J-Cap
Grout joints: 1/8"
Manufacturer: QuartzLock
Color: 370 Raincloud Gray
****CUT 6" X 24" TILE IN HALF FOR TILE BASE SIZE OF 6" X 12"**

WALLS

CT A Glazed Ceramic Wall Tile (Restrooms & Break room)
Manufacturer: DalTile
Style: Semi-gloss
Field Color: 100 White
Accent Color A: 1469 Galaxy
Accent Color B: 0135 Almond
Accent Color C: Q093 Fire Brick
Size: 4 ½"x 4 ½"
Installation: see elevations
Grout joints: 1/8"
Manufacturer: Laticrete
Color: 44 Bright White
(COLOR A: 1469 GALAXY AND COLOR C: Q093 FIRE BRICK HAVE A 2-3 WEEK LEAD TIME**)**

PT 1 Low VOC Latex Wall Paint
Manufacturer: Sherwin Williams
Finish: Satin on gyp board, Semi Gloss on CMU
Color: SW7015 Repose Gray

PT 2 Low VOC Latex Wall Paint
Manufacturer: Sherwin Williams
Finish: Satin on gyp board, Semi Gloss on CMU
Color: SW7583 Wild Current

PT 3 Low VOC Latex Wall Paint
Manufacturer: Sherwin Williams
Finish: Satin on gyp board, Semi Gloss on CMU
Color: SW7603 Poolhouse

PT 4 Low VOC Latex Wall Paint
Manufacturer: Sherwin Williams
Finish: Satin on gyp board, Semi Gloss on CMU
Color: SW7602 Indigo Batik

EPX PT Epoxy Paint
Manufacturer: Sherwin Williams
Color: SW7015 Repose Gray

CEILINGS

ACT Acoustic Lay In Ceiling System
Manufacturer: Armstrong
Grid Style: 3/4" Tegular
Grid Color: White
Tile Style: Ultima
Tile Size: 24" x 24"
Tile Color: White

GYP Epoxy Painted Gypsum Board Ceiling
Manufacturer: Sherwin Williams
Color: SW7015 Repose Gray

CASEWORK

PL 1 Plastic Laminate for Cabinetry (Conference Room & Reception Desk)
Manufacturer: Wilsonart
Style: 7964K Skyline Walnut
Finish: 12

PL 2 Plastic Laminate for Cabinetry
Manufacturer: Formica
Style: 5875-58 Neutral Weft
Finish: Matte

PL 3 Plastic Laminate for Countertops
Manufacturer: Formica
Style: 7740-58 Buffed Aluminum
Finish: Matte

SS Solid Surface for Countertops (reception desk service counter top, & conference room counter top)
Manufacturer: DuPont
Style: Corian
Color: Deep Sea

SPECIALTIES

TP Toilet Partitions
Manufacturer: Scranton Products
Style: Hiny Hiders
Color: Parchment
Finish: Orange Peel

RS Mesh Roller Shades
Manufacturer: MechoShades
Shade Cloth: EuroTwill 6000 Series Twill Weave
Shade Cloth Color: 6018 Stone
Valance Cover: Aluminum
Manual Operation: Stainless Steel Chain

Interior Doors
Manufacturer: Algoma
Style: Solid Core Wood Veneer
Species: White Maple
Stain: RA1050

PT 5 Paint for Hollow Metal Frames
Manufacturer: Sherwin Williams
Finish: Semi Gloss
Color: SW6236 Grays Harbor

CR Chair Rail / Wall Protection
Manufacturer: cjs Acrovyn
Color: #194 Chinchilla
Style: BG-30N
Mounting: 36" A.F.F. to centerline

WT Dry Erase Wall Covering/ Walltalkers
Manufacturer: MDC
Style: MagRite II
Color: White
Size: 3' 2" A.F.F. x length of wall (see elevations)

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

600 301 BOULEVARD WEST, SUITE 108, BRADENTON, FL 34205

FINISH SCHEDULE & LEGEND

Project No. 2013019.06
Drawn By Author
Checked By Checker
Date 09.29.14

Revisions:

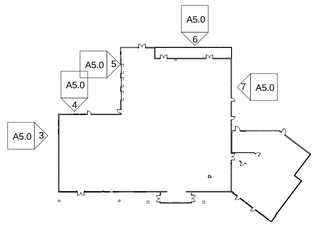
Richard W. Fawley
AR 0010008

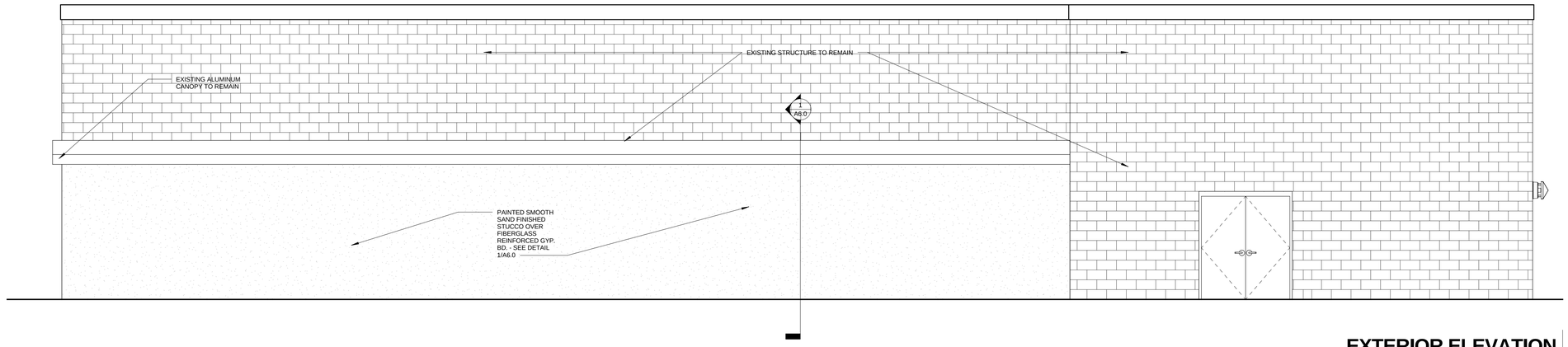
"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

CONSTRUCTION DOCUMENTS

A3.4.1

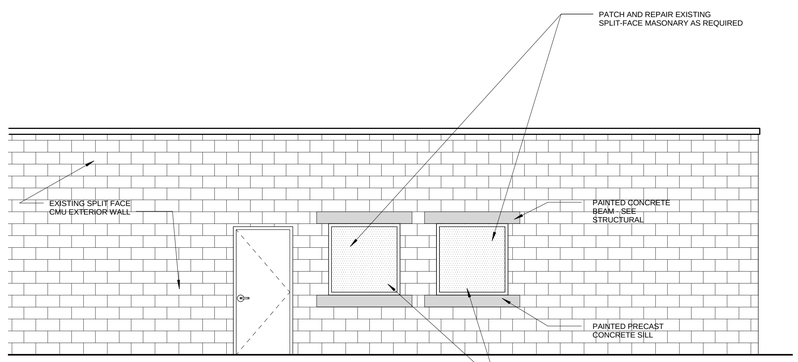
Originals printed @ 24" x 36"
scale as required





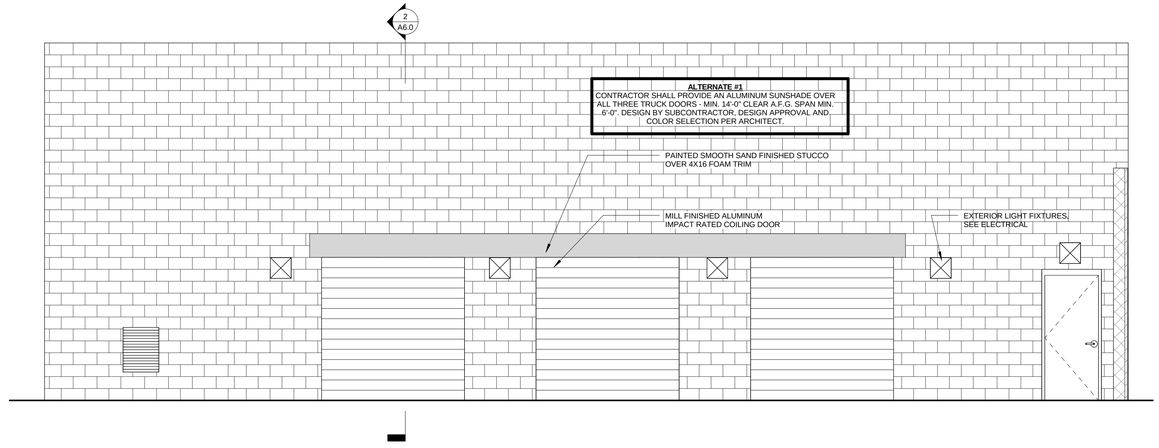
EXTERIOR ELEVATION 6

1/4" = 1'-0"



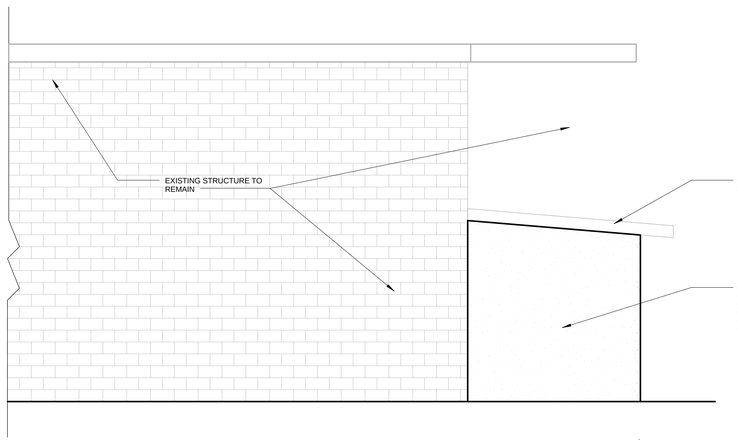
EXTERIOR ELEVATION 4

1/4" = 1'-0"



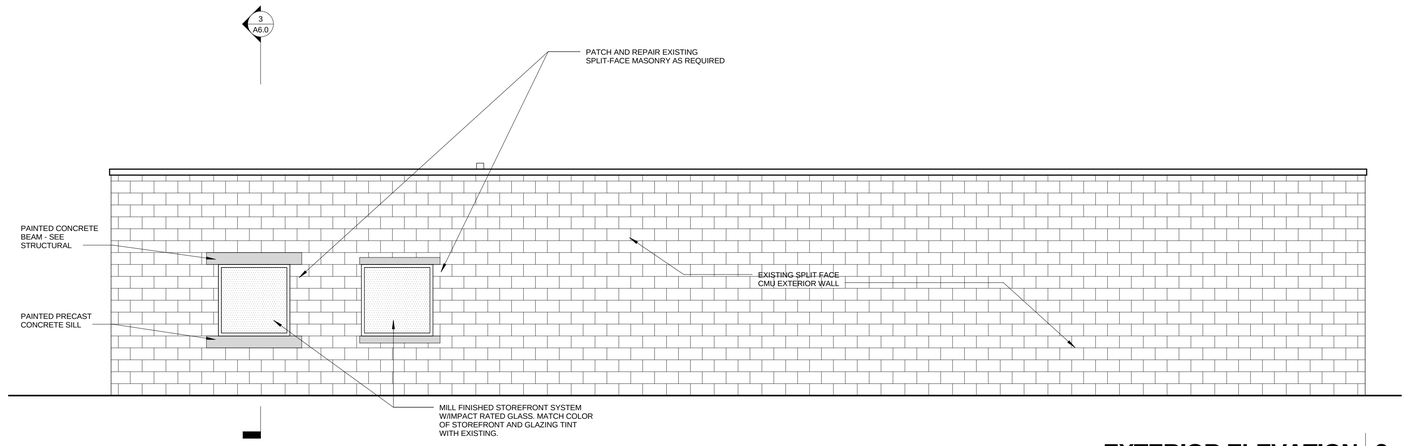
EXTERIOR ELEVATION 5

1/4" = 1'-0"



EXTERIOR ELEVATION 7

1/4" = 1'-0"



EXTERIOR ELEVATION 3

1/4" = 1'-0"

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

600 301 BOULEVARD WEST, SUITE 108, BRADENTON, FL 34205

EXTERIOR ELEVATIONS

Project No.	2013019.06
Drawn By	JBT
Checked By	JBT
Date	09.29.14

Revisions:

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AR 0010008

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CONSTRUCTION DOCUMENTS

A5.0

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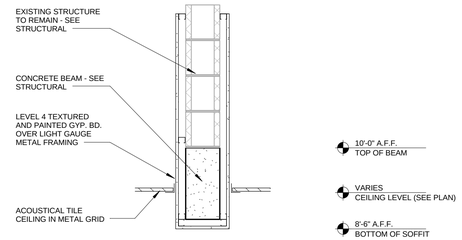
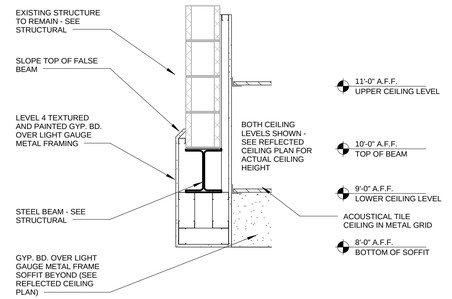


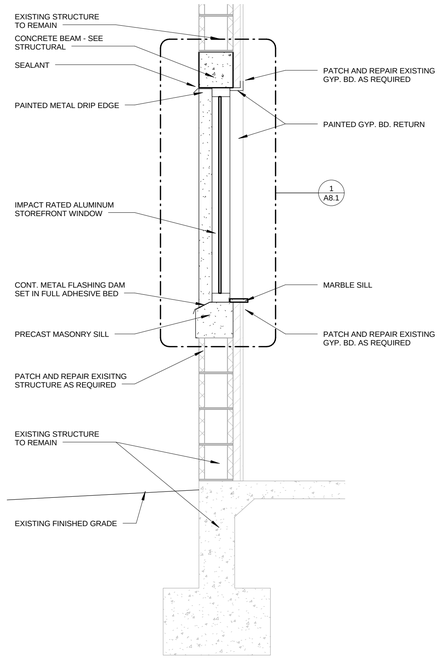
HEADER/ SOFFIT DETAIL 5

3/4" = 1'-0"



HEADER/ SOFFIT DETAIL 4

3/4" = 1'-0"



NEW WINDOW DETAIL 3

3/4" = 1'-0"

OVERHEAD DOOR SECTION 2

3/4" = 1'-0"

EXTERIOR AREA INFILL 1

3/4" = 1'-0"

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

600 301 BOULEVARD WEST, SUITE 108, BRADENTON, FL 34205

WALL SECTIONS

Project No.	2013019.06
Drawn By	JBT
Checked By	JBT
Date	09.29.14

Revisions:

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CONSTRUCTION DOCUMENTS

A6.0

Originals printed @ 24" x 36" scale as required

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

600 301 BOULEVARD WEST, SUITE 108, BRADENTON, FL 34205

WALL TYPES

Project No.	2013019.06
Drawn By	Author
Checked By	Checker
Date	09.29.14

Revisions:

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AR 0010008

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CONSTRUCTION DOCUMENTS

A7.0

Originals printed @ 24" x 36" scale as required

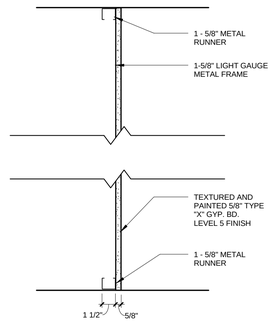
INTERIOR FURRING | K

K1- SIM. TO "K" WITH NO 1 1/2" RIGID INSULATION

INTERIOR METAL STUD CHASE WALL | J

J1- SIM. TO "J" WITH 5/8" CEMENTITIOUS GYP. BOARD AND TILE BOTH SIDES

DOUBLE LAYER 1 HOUR FIRE RATED WALL | H



TYP. COLUMN WRAP | L

RATED FIRE-RESISTANCE FOR PARTITIONS | 2

SOLID CONCRETE PARTITIONS

CARBONATE AGGREGATE CONCRETE
PER 2007 FBC, TABLE 720.1(2):
1 HOUR RATING = 3.2" MIN WALL THICKNESS
2 HOUR RATING = 4.6" MIN WALL THICKNESS
3 HOUR RATING = 5.7" MIN WALL THICKNESS
4 HOUR RATING = 6.6" MIN WALL THICKNESS

1 HOUR REQUIRED - 4 HOUR PROVIDED

CONCRETE MASONRY UNIT PARTITIONS

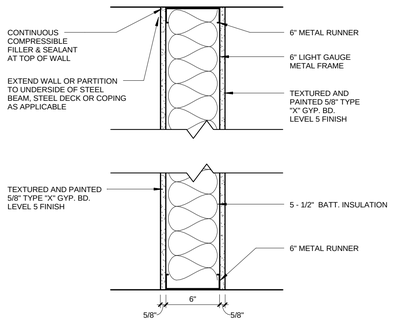
CALCAREOUS OR SILICEOUS GRAVEL WALL RATINGS
PER 2007 FBC, TABLE 720.1(2):
1 HOUR RATING = 2.8" MIN WALL THICKNESS
2 HOUR RATING = 4.2" MIN WALL THICKNESS
3 HOUR RATING = 5.3" MIN WALL THICKNESS
4 HOUR RATING = 6.2" MIN WALL THICKNESS

1 HOUR REQUIRED - 4 HOUR PROVIDED

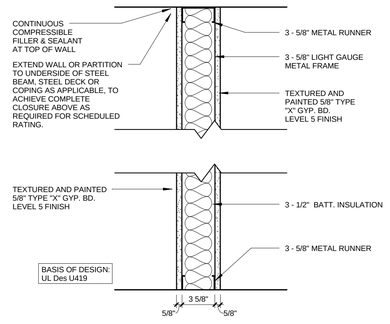
NOT USED

6" INTERIOR WALL TILE BOTH SIDES | F

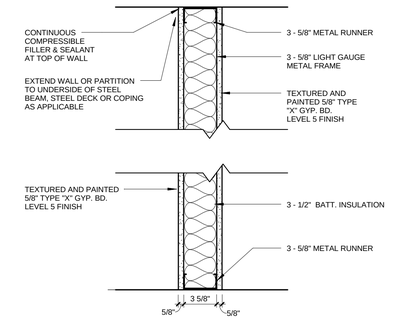
F1- SIM. TO "F" WITH 5/8" TYPE "X" GYP. BOARD ONE SIDE



6" INTERIOR METAL STUD WALL | E

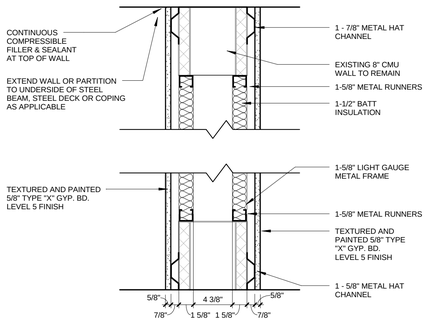


3 5/8" INTERIOR 1 HOUR FIRE RATED WALL | D



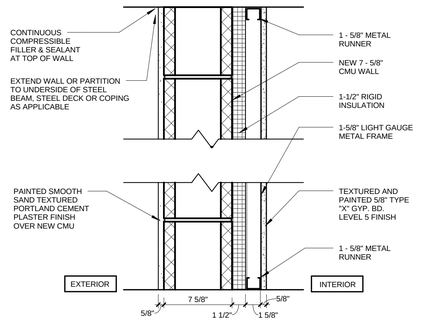
3 5/8" INTERIOR METAL STUD WALL | C

C1- SIM. TO "C" WITH CEMENTITIOUS GYP. BOARD AND TILE BOTH SIDES
C2- SIM. TO "C" WITH CEMENTITIOUS GYP. BOARD AND TILE ONE SIDE



8" INTERIOR CMU INFILL WALL | B

B1- SIM. TO "B" WITH 5/8" TYPE "X" GYP. BOARD ONE SIDE

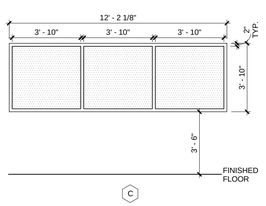


8" EXTERIOR MASONRY INFILL WALL | A

A1- SIM. TO "A" WITH 5/8" CEMENTITIOUS GYP. BOARD & TILE ONE SIDE

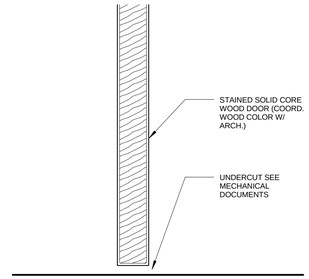
WALL TYPES | 1

1 1/2" = 1'-0"

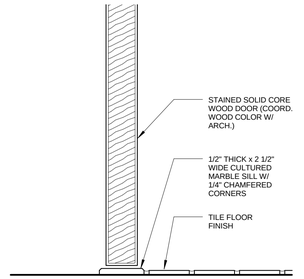


WINDOW LEGEND

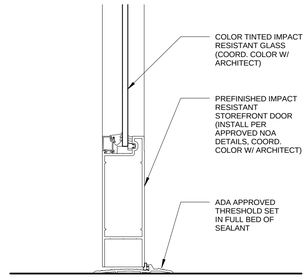
1/4" = 1'-0"



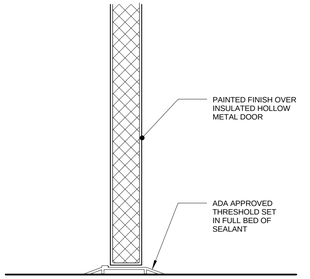
INTERIOR S.C.W.D. | D



THRESHOLD AT R.R. | C



STOREFRONT THRESHOLD | B



H.M. DOOR THRESHOLD | A

DOOR THRESHOLDS | 4

3" = 1'-0"

DOOR SCHEDULE PHASE 3

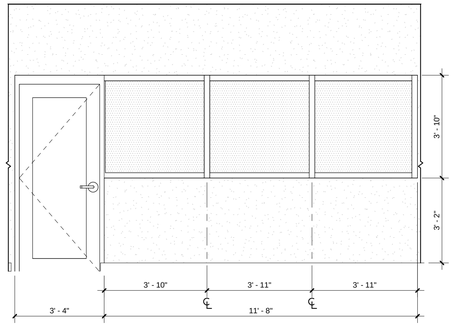
Door #	Type Mark	Width	Height	Thickness	Door Mat'l	Door Finish	Frame Type	Frame Mat'l	Frame Finish	Fire Rating	Comments
1-104	D6	3' - 0"	7' - 0"	1 3/4"	S.C WOOD	STAIN	F1	H.M.	PAINT		
3-100A	D4	6' - 0"	7' - 0"	1 3/4"	S.C. WOOD	STAIN	F3	ALUM	ANODIZED	45 MIN.	
3-101	D5	3' - 0"	7' - 0"	1 3/4"	S.C WOOD	STAIN	F1	H.M.	PAINT		
3-102	D6	3' - 0"	7' - 0"	1 3/4"	S.C WOOD	STAIN	F1	H.M.	PAINT		
3-103	D6	3' - 0"	7' - 0"	1 3/4"	S.C WOOD	STAIN	F1	H.M.	PAINT		
3-105	D5	3' - 0"	7' - 0"	1 3/4"	S.C WOOD	STAIN	F1	H.M.	PAINT		
3-106	D5	3' - 0"	7' - 0"	1 3/4"	S.C WOOD	STAIN	F1	H.M.	PAINT		
3-107	D6	3' - 0"	7' - 0"	1 3/4"	H.M.	PAINT	F1	H.M.	PAINT		
3-107A	D6	3' - 0"	7' - 0"	1 3/4"	H.M.	PAINT	F1	H.M.	PAINT		
3-108	D4	6' - 0"	7' - 0"	1 3/4"	S.C. WOOD	STAIN	F3	ALUM	ANODIZED	45 MIN.	
3-110	D7	2' - 0"	6' - 7"								BI-FOLD DOOR
3-111	D5	3' - 0"	7' - 0"	1 3/4"	S.C WOOD	STAIN	F1	H.M.	PAINT		
3-114A	D6	8' - 0"	8' - 0"	2"	STEEL	FACTORY	FACTORY	FACTORY	FACTORY		
3-114B	D6	8' - 0"	8' - 0"	2"	STEEL	FACTORY	FACTORY	FACTORY	FACTORY		
3-114C	D6	8' - 0"	8' - 0"	2"	STEEL	FACTORY	FACTORY	FACTORY	FACTORY		
3-115A	D4	6' - 0"	7' - 0"	1 3/4"	S.C. WOOD	STAIN	F3	ALUM	ANODIZED	45 MIN.	
3-115B	D4	6' - 0"	7' - 0"	1 3/4"	S.C. WOOD	STAIN	F3	ALUM	ANODIZED	45 MIN.	

DOOR SCHEDULE NOTES:

1. ALL MAGNETIC LOCKS TO BE TIED INTO EXISTING ACCESS CONTROL

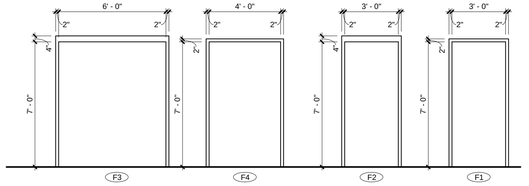
DOOR SCHEDULE PHASE 2

Door #	Type Mark	Width	Height	Thickness	Door Mat'l	Door Finish	Frame Type	Frame Mat'l	Frame Finish	Fire Rating	Comments
2-100A	D2	3' - 0"	7' - 0"	1 3/4"	S.C WOOD	STAIN	F1	H.M.	PAINT	45 MIN.	
2-100D	D3	4' - 0"	7' - 0"	1 3/4"	S.C. WOOD	STAIN	F1	H.M.	PAINT		
2-104	D5	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	STAIN	F1	ALUM.	FACTORY		
2-106	D5	3' - 0"	7' - 0"	1 3/4"	S.C WOOD	STAIN	F1	H.M.	PAINT		
2-107	D5	3' - 0"	7' - 0"	1 3/4"	S.C WOOD	STAIN	F1	H.M.	PAINT		
2-109	D5	3' - 0"	7' - 0"	1 3/4"	S.C WOOD	STAIN	F1	H.M.	PAINT		
2-109A	D2	3' - 0"	7' - 0"	1 3/4"	H.M.	PAINT	F1	H.M.	PAINT		
2-110	D6	3' - 0"	7' - 0"	1 3/4"	S.C WOOD	STAIN	F1	H.M.	PAINT		
2-111	D6	3' - 0"	7' - 0"	1 3/4"	S.C WOOD	STAIN	F1	H.M.	PAINT		
2-112	D6	3' - 0"	7' - 0"	1 3/4"	S.C WOOD	STAIN	F1	H.M.	PAINT		
2-113	D3	4' - 0"	7' - 0"	1 3/4"	S.C. WOOD	STAIN	F1	H.M.	PAINT		
2-113A	D5	3' - 0"	7' - 0"	1 3/4"	S.C WOOD	STAIN	F1	H.M.	PAINT		
3-105A	D2	3' - 0"	7' - 0"	1 3/4"	H.M.	PAINT	F1	H.M.	PAINT		
3-106A	D2	3' - 0"	7' - 0"	1 3/4"	H.M.	PAINT	F1	H.M.	PAINT		



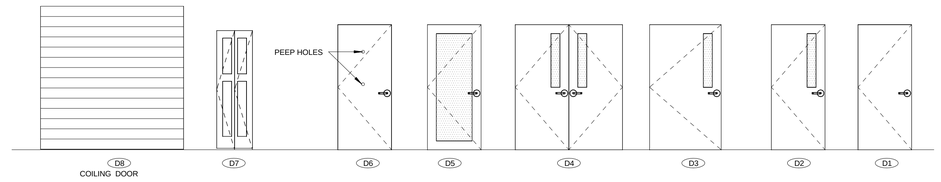
BREAK ROOM ELEVATION | 1

3/8" = 1'-0"



DOOR FRAME TYPES | 2

1/4" = 1'-0"



DOOR LEGEND

1/4" = 1'-0"

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

600 301 BOULEVARD WEST, SUITE 108, BRADENTON, FL 34205

DOOR & WINDOW SCHEDULES

Project No.	2013019.06
Drawn By	Author
Checked By	Checker
Date	09.29.14

Revisions:

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AR 0010008

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CONSTRUCTION DOCUMENTS

A8.0

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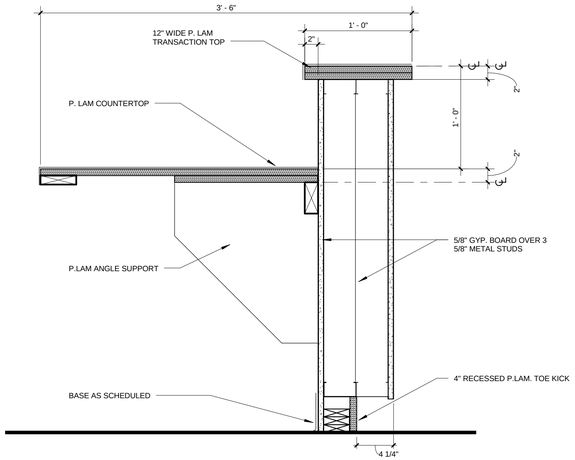
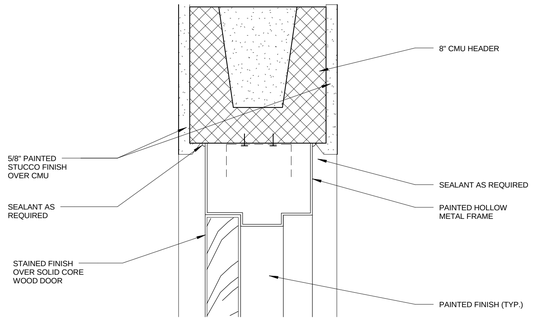


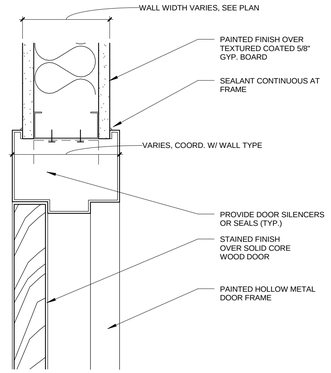
PHASE THREE DESK DETAIL | 6

1 1/2" = 1'-0"



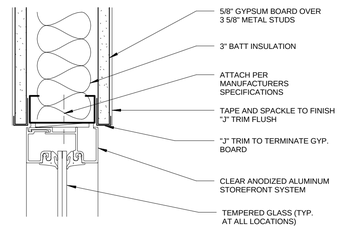
INT. CMU DOOR HEAD | 7

3" = 1'-0"



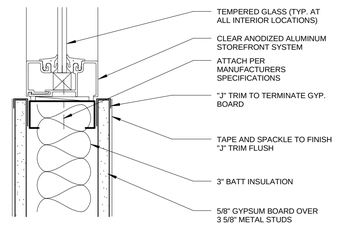
INT. DOOR HEAD DETAIL | 5

3" = 1'-0"



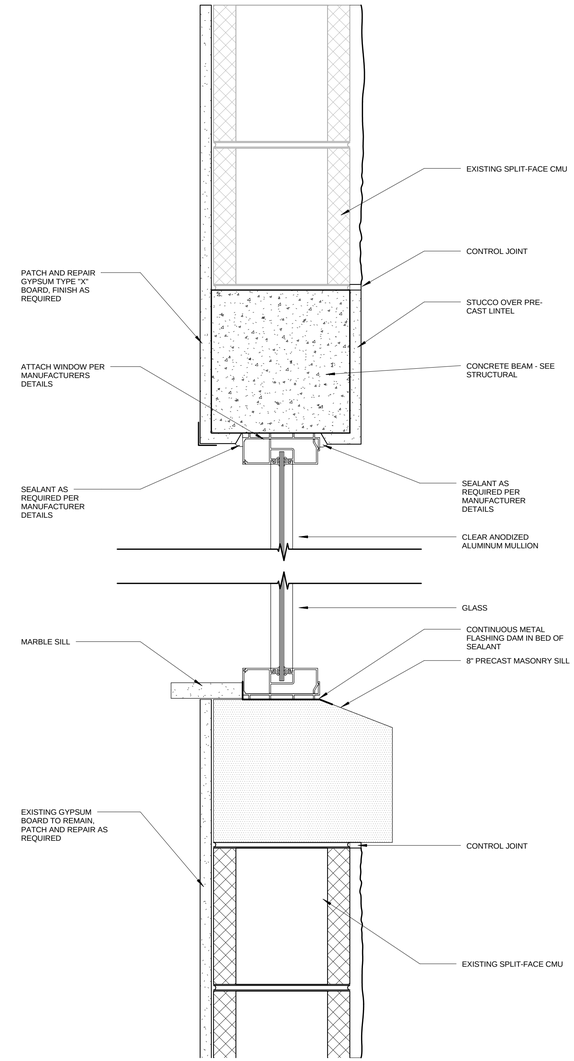
TYP. INTERIOR WINDOW HEAD | 3

3" = 1'-0"



TYP. INTERIOR WINDOW SILL | 2

3" = 1'-0"



WINDOW REPAIR DETAIL | 1

3" = 1'-0"

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

600 301 BOULEVARD WEST, SUITE 108, BRADENTON, FL 34205

DOOR, WINDOW, & CASEWORK DETAILS

Project No.	2013019.06
Drawn By	Author
Checked By	Checker
Date	09.29.14

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AR 0010008

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A8.1

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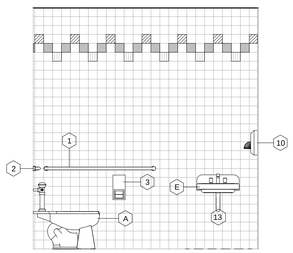
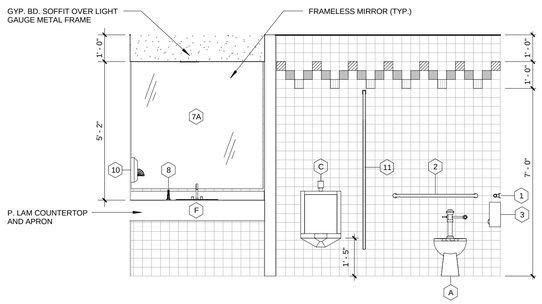


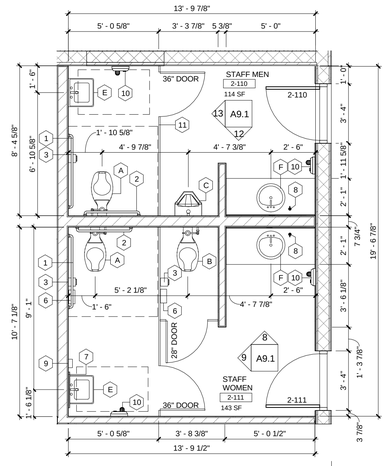
MEN RR ELEVATION | 13

3/8" = 1'-0"



MEN RR ELEVATION | 12

3/8" = 1'-0"



ENLARGED RR PLAN (PHASE 2) | 11

1/4" = 1'-0"

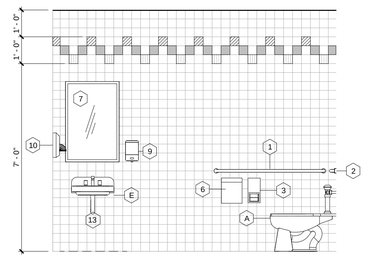
RESTROOM FIXTURE / ACCESSORY SCHEDULE

No	ACCESSORY	MANUFACTURES	MOUNTING HEIGHT
1	ADA 48" GRAB BAR	BOBRICK OR EQUAL	2'-10" A.F.F.
2	ADA 36" GRAB BAR	BOBRICK OR EQUAL	2'-10" A.F.F.
3	TOILET PAPER DISPENSER - SURFACE MOUNT	KIMBERLY -CLARK #KC09612	1'-6" A.F.F.
4	PAPER TOWEL DISPENSER - SURFACE MOUNT	KIMBERLY-CLARK "INSIGHT" LEV-R-MATIC	4'-0" A.F.F. TO TOWEL
5	WASTE RECEPTACLE - SURFACE MOUNT	MANUFACTURES	2'-10" A.F.F.
6	FEMININE DISPOSAL	BOBRICK OR EQUAL	1'-6" A.F.F.
7	24" x 36" MIRROR (STAINLESS STEEL)	BOBRICK OR EQUAL	3'-4" A.F.F. TO REFLECTIVE SURFACE
8	SOAP DISPENSER - SURFACE MOUNT	GOJO	3'-4" A.F.F. TO BUTTON
9	NOT USED		
10	ELECTRIC HAND DRYER	EXCEL DRYER, XLERATOR MODEL XL-W SEE ELEC.	4'-0" A.F.F. TO DRYER OUTLET
11	TOILET PARTITION		12" A.F.F.
12	URINAL SCREEN	BOBRICK OR EQUAL	12" A.F.F.
13	SAFETY COVER OVER EXPOSED PIPES	BOBRICK OR EQUAL	-

RESTROOM FIXTURE / ACCESSORY SCHEDULE

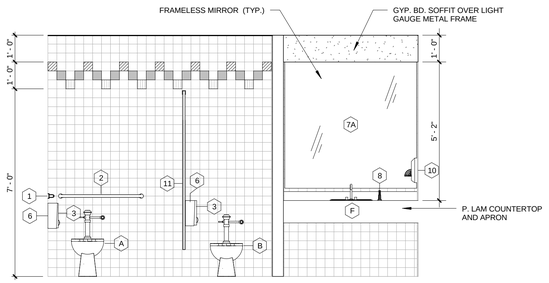
A	ADA WATER CLOSET	SEE PLUMB.	1'-3" A.F.F.
B	WATER CLOSET - FLOOR MOUNTED	SEE PLUMB.	1'-6" A.F.F.
C	URINAL	SEE PLUMB.	2'-0" A.F.F.
D	NOT USED		
E	ADA LAVATORY - WALL MOUNT	SEE PLUMB.	2'-10" A.F.F.
F	LAVATORY		
G	NOT USED		
H	ADA ELECTRIC WATER COOLER (HI-LO)	SEE PLUMB.	3'-0" A.F.F. TO SPOUT
J	CORNER FLOOR MOUNTED CUSTODIAL SINK	SEE PLUMB.	-
K	MOP AND BROOM RACK (WALL MOUNTED)	BOBRICK OR EQUAL	4'-10" A.F.F. TO TOP

NOTE: PROVIDE BLOCKING AT WALL MOUNT FIXTURE ACCESSORIES



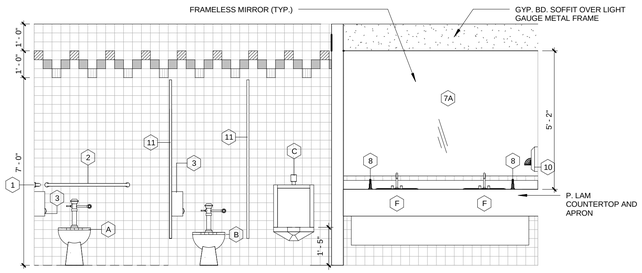
WOMEN RR ELEVATION | 9

3/8" = 1'-0"



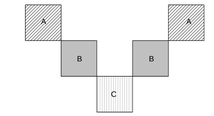
WOMEN RR ELEVATION | 8

3/8" = 1'-0"



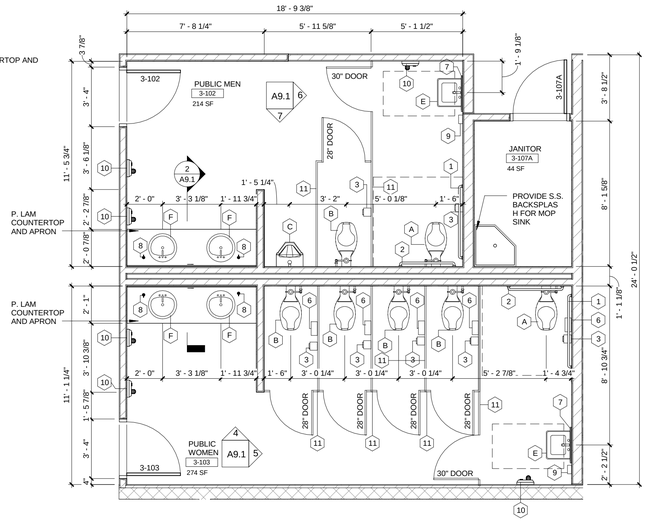
MEN RR ELEVATION | 7

3/8" = 1'-0"



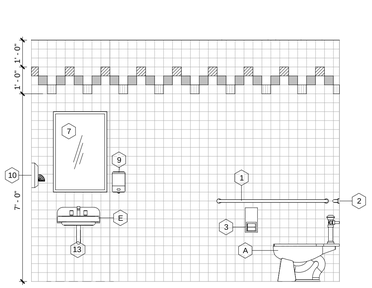
TILE PATTERN REPEAT | 10

1 1/2" = 1'-0"



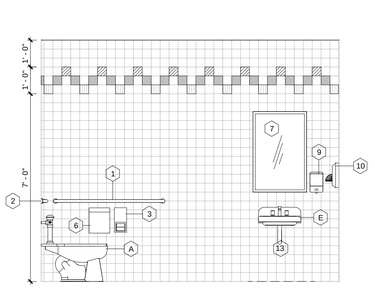
ENLARGED RR PLAN (PHASE 3) | 3

1/4" = 1'-0"



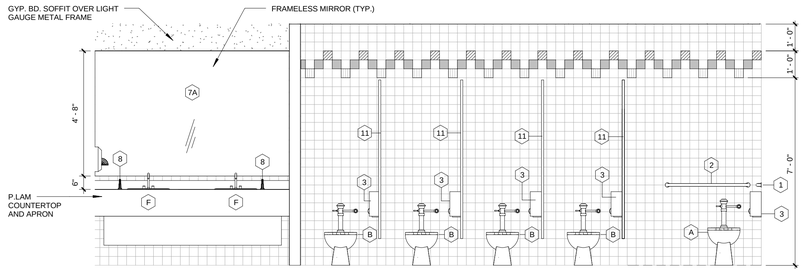
MEN RR ELEVATION | 6

3/8" = 1'-0"



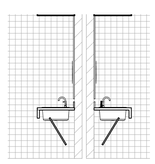
WOMEN RR ELEVATION | 5

3/8" = 1'-0"



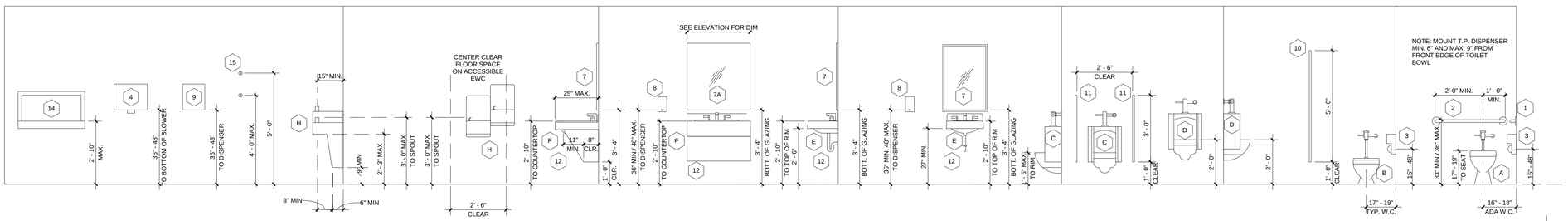
WOMEN RR ELEVATION | 4

3/8" = 1'-0"



TYP. R.R. APRON | 2

1/4" = 1'-0"



TYPICAL R.R. ELEVATION | 1

3/8" = 1'-0"

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

600 301 BOULEVARD WEST, SUITE 108, BRADENTON, FL 34205

ENLARGED PLANS & INTERIOR ELEVATIONS

Project No.	2013019.06
Drawn By	JBT
Checked By	JBT
Date	09.29.14

Revisions:

Richard W. Fawley
AR 0010008

"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

CONSTRUCTION DOCUMENTS

A9.1

Originals printed @ 24" x 36" scale as required

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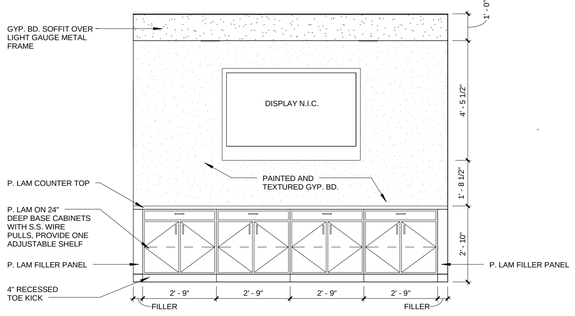
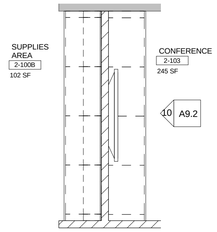


CASEWORK ELEVATION 10

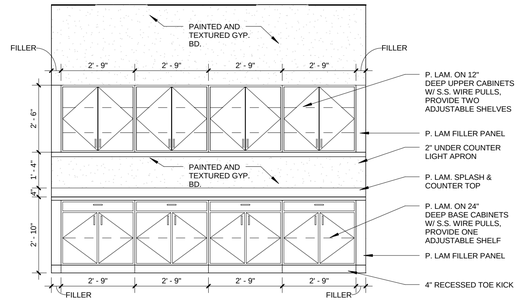
3/8" = 1'-0"



ENLARGED CONFERENCE ROOM PLAN 9

PHASE TWO

1/4" = 1'-0"



CASEWORK ELEVATION 8

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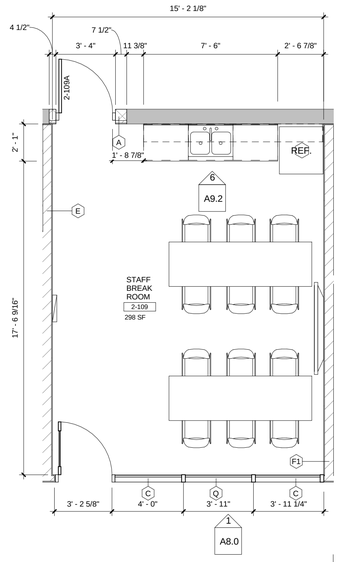
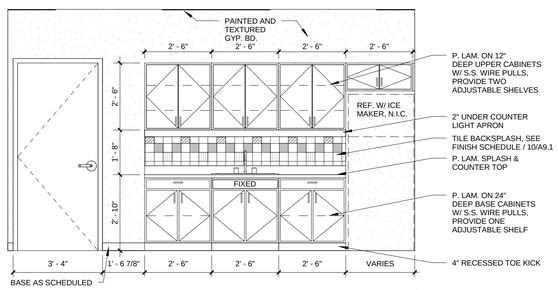


ENLARGED BREAK ROOM PLAN 7

PHASE TWO

1/4" = 1'-0"



CASEWORK ELEVATION 6

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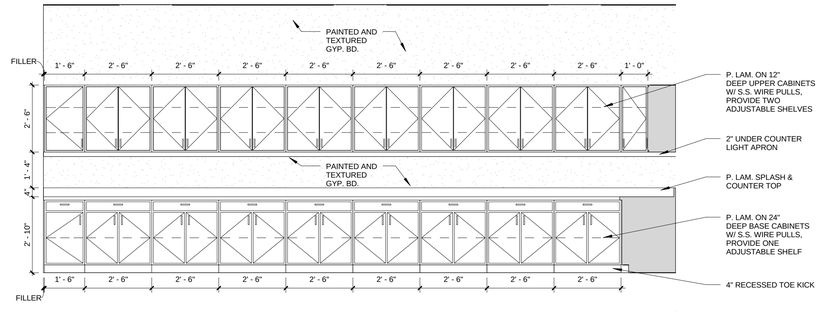

CASEWORK ELEVATION 5

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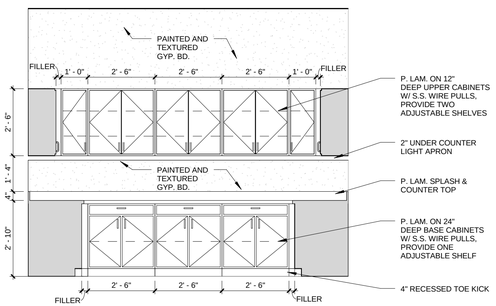

CASEWORK ELEVATION 4

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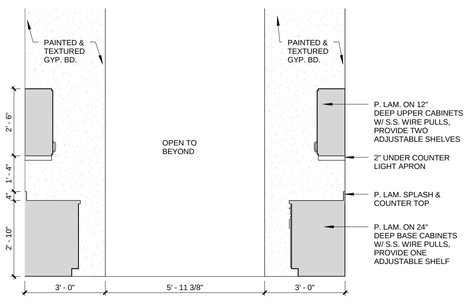
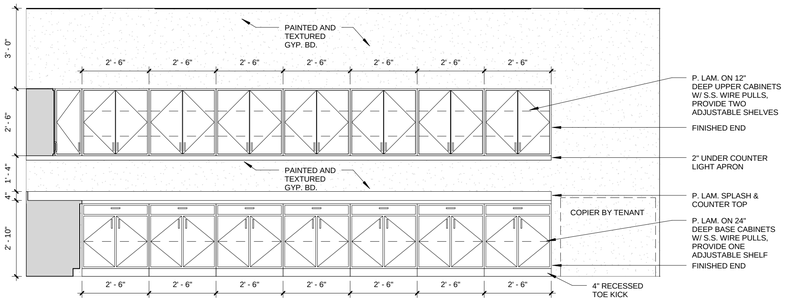


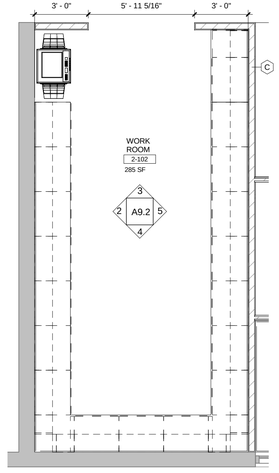
CASEWORK ELEVATION 3

3/8" = 1'-0"



CASEWORK ELEVATION 2

3/8" = 1'-0"



ENLARGED WORK ROOM PLAN 1

PHASE TWO

1/4" = 1'-0"

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ENLARGED PLANS & INTERIOR ELEVATIONS

Project No.	2013019.06
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Revisions:

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CONSTRUCTION DOCUMENTS

A9.2

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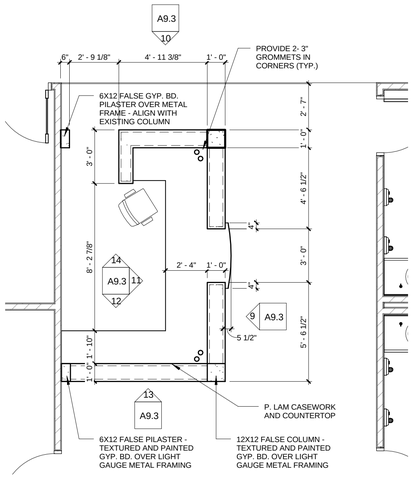
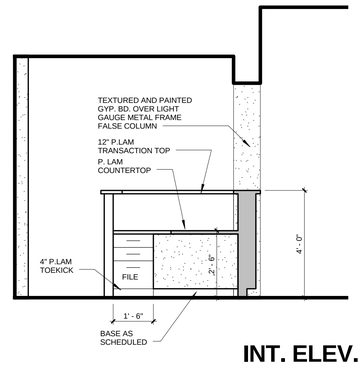


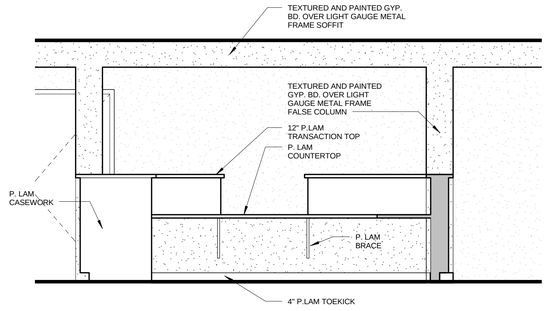
ENLARGED RECEPTION/LOBBY PLAN | 8

1/4" = 1'-0"



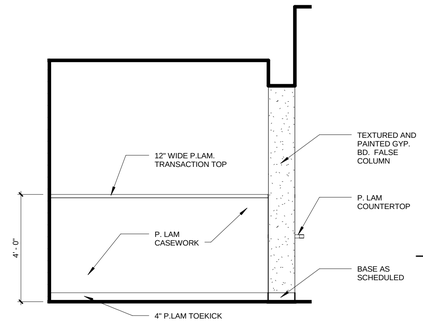
INT. ELEV. | 14

3/8" = 1'-0"



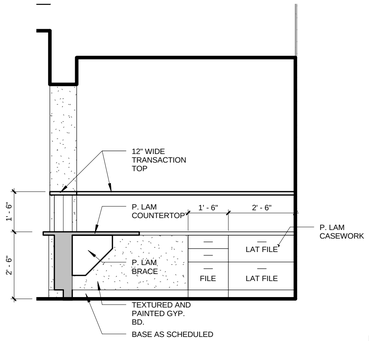
INT. ELEV. | 11

3/8" = 1'-0"



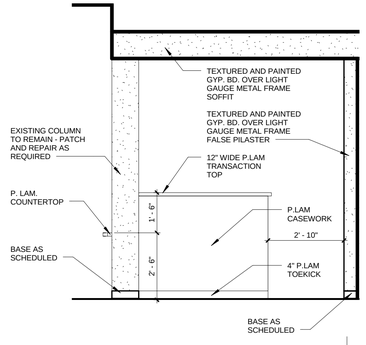
INT. ELEV. | 13

3/8" = 1'-0"



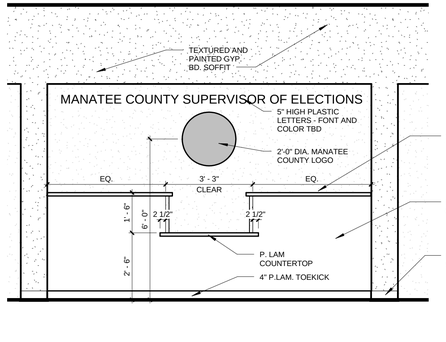
INT. ELEV. | 12

3/8" = 1'-0"



INT. ELEV. | 10

3/8" = 1'-0"

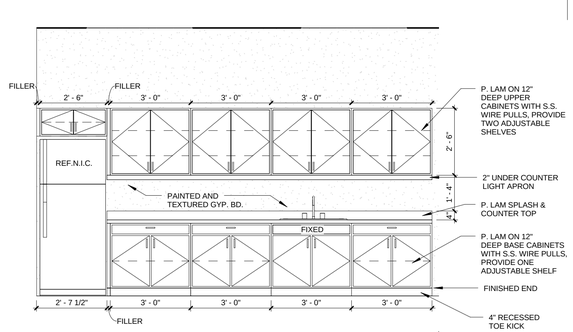


INT. ELEV. | 9

3/8" = 1'-0"

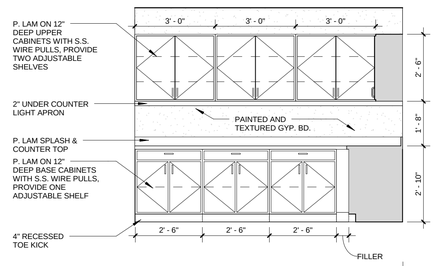
ENLARGED PUBLIC BREAK ROOM PLAN | 7

1/4" = 1'-0"



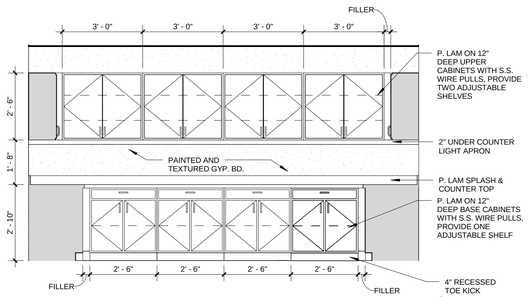
PUBLIC BREAK ROOM ELEVATION | 6

3/8" = 1'-0"



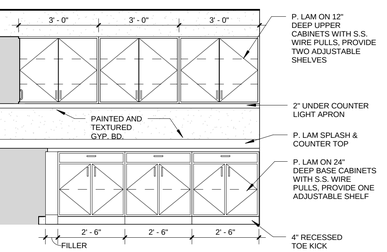
P.W. SUPPLY ELEVATION | 5

3/8" = 1'-0"



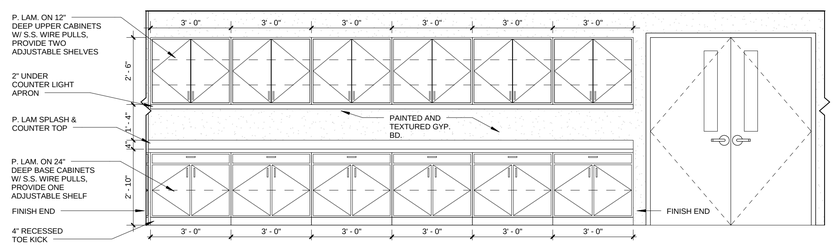
P.W. SUPPLY ELEVATION | 4

3/8" = 1'-0"



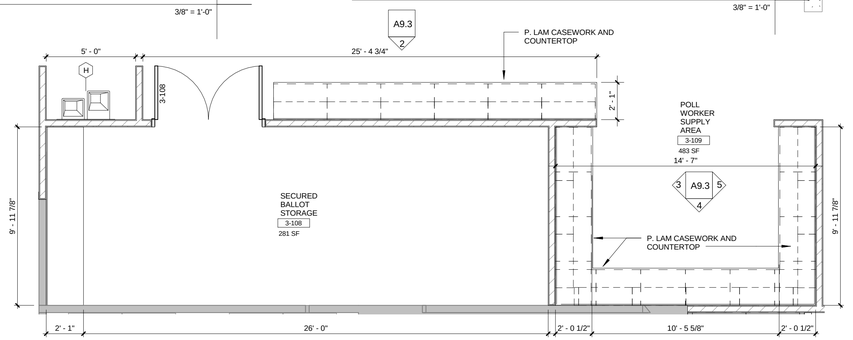
P.W. SUPPLY ELEVATION | 3

3/8" = 1'-0"



P.W. SUPPLY AREA ELEVATION | 2

3/8" = 1'-0"



POLL WORKER SUPPLY AREA (PHASE 3) | 1

1/4" = 1'-0"

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

600 301 BOULEVARD WEST, SUITE 108, BRADENTON, FL 34205

ENLARGED PLANS & INTERIOR ELEVATIONS

Project No.	2013019.06
Drawn By	JBT
Checked By	JBT
Date	09.29.14

Revisions:

Richard W. Fawley
AR 0010008

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CONSTRUCTION DOCUMENTS

A9.3

Originals printed @ 24" x 36" scale as required

STRUCTURAL NOTES:

ELECTRONIC VERSIONS OF STRUCTURAL DRAWINGS ARE THE SOLE, COPYRIGHTED PROPERTY OF TRC WORLDWIDE ENGINEERING INC. ELECTRONIC VERSIONS OF DRAWINGS ARE NOT TO BE USED OR TRANSFERRED WITHOUT THE EXPRESS, WRITTEN PERMISSION OF TRC WORLDWIDE ENGINEERING INC.

1010 GENERAL NOTES:

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

DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.

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

1011 CONTRACTOR PROPOSED CHANGES AND SUBSTITUTIONS:

PROPOSED CHANGES OR SUBSTITUTIONS TO STRUCTURAL DETAILS OR PLANS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD (EOR) FOR REVIEW AND APPROVAL. SUBMITTALS SHALL CONTAIN FULL DOCUMENTATION OF CHANGES OR SUBSTITUTIONS WITH SUPPORTING, SEALED CALCULATIONS (WHERE APPLICABLE). THE REVIEW OF CHANGES AND SUBSTITUTIONS, RE-ANALYSIS AND/OR RE-DRAFTING TO INCORPORATE CHANGES OR SUBSTITUTIONS INTO CONTRACT DOCUMENTS ARE ADDITIONAL SERVICES FOR EOR. CONSTRUCTION COST REVISIONS ARE BETWEEN THE CONTRACTOR AND OWNER AND ARE NOT REVIEWED BY THE EOR.

1012 CONTRACTOR REQUIRED REMEDIAL WORK:

REMEDIAL WORK REQUIRED DUE TO CONSTRUCTION ERRORS, INSTALLATIONS NOT IN CONFOMRANCE WITH CONTRACT DOCUMENTS, OR IN ANY WAY BROUGHT ABOUT BY ACTIVITIES OF THE CONTRACTOR SHALL BE DESIGNED, DETAILED AND SEALED BY A REGISTERED ENGINEER EMPLOYED BY THE CONTRACTOR AND SUBMITTED TO EOR FOR REVIEW AND APPROVAL. EOR IS NOT RESPONSIBLE FOR THIS WORK AS PART OF CONTRACTED CA SERVICES.

1015 EXISTING STRUCTURE:

WORK SHOWN ON THESE PLANS ASSUMES THAT THE ORIGINAL CONSTRUCTION WAS PERFORMED IN ACCORDANCE WITH THE ORIGINAL DRAWINGS INCLUDING (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, MEMBER SIZES, MATERIALS, DETAILS, ETC. THIS IS A PARTIAL SET OF PLANS AND DOES NOT ADDRESS SUPERSTRUCTURE CONSTRUCTION OR ANY SUBSEQUENT RENOVATIONS. FIELD VERIFICATION OF EXISTING CONDITIONS WAS PERFORMED TO THE EXTENT PRACTICABLE, WITH EXISTING FINISHES IN PLACE. CONTRACTOR SHALL NOTE THAT ACTUAL CONDITIONS MAY VARY AND DESIGNS & DETAILS SHOWN ON THESE DRAWINGS MAY NEED TO BE REVISED BASED ON EXISTING CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS. CONFORMANCE TO CODE REQUIREMENTS APPLIES ONLY TO WORK DOCUMENTED ON THESE PLANS AND DOES NOT APPLY TO ENTIRE, EXISTING STRUCTURE. CAPACITY AND/OR CONDITION OF EXISTING FRAMING ELEMENTS HAVE NOT BEEN REVIEWED WHERE USE AND LOADING ARE NOT CHANGED FROM EXISTING CONDITION. THE EXISTING STRUCTURE'S CAPACITY HAS ONLY BEEN EVALUATED WHERE USAGE HAS CHANGED.

1061 DESIGN LOADS: FOR NEW CONSTRUCTION ONLY

THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE. 2010 EDITION. THE FOLLOWING SUPERIMPOSED LOADINGS HAVE BEEN UTILIZED:

ROOF:
LIVE LOAD — 20 psf.
DEAD LOAD — 25 psf.
DEAD LOAD — 5 psf. (AVAILABLE TO RESIST UPLIFT)
MECH. EQUIPMENT — 125 psf.
WIND: SECTION 1606.2
Vult =150 MPH REGION
Vasd = 116 MPH REGION
*** ASCE 7-10
EXPOSURE "B"
RISK CATEGORY II
Gcpi = ±0.18 PSF

1062 CODE COMPLIANCE:

THE STRUCTURAL SYSTEM FOR ADDITIONS FOR THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODE(S):

—FLORIDA BUILDING CODE 2010

1120 SHOP DRAWING REVIEW:

ELECTRONIC VERSIONS OF STRUCTURAL DRAWINGS ARE THE SOLE, COPYRIGHTED PROPERTY OF TRC WORLDWIDE ENGINEERING INC. ELECTRONIC VERSIONS OF DRAWINGS ARE NOT TO BE USED OR TRANSFERRED WITHOUT THE EXPRESS, WRITTEN PERMISSION OF TRC WORLDWIDE ENGINEERING INC. USERS WILL SIGN A RELEASE AND REIMBURSE TRC INC FOR EXPENSES INCURRED IN PREPARING AND TRANSMITTING ELECTRONIC DRAWINGS AT THE RATE OF $100.00 PER ELECTRONIC DRAWING.

SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC.

SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR'S FIELD ENGINEER PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED.

SHOP DRAWING SUBMITTALS SHALL INCLUDE ONE GOOD QUALITY REPRODUCIBLE AND THREE SETS OF BLUEPRINTS. ONE SET OF PRINTS WILL BE RETAINED BY THE ENGINEER, ONE BY THE ARCHITECT, ONE BY THE LOCAL BUILDING DEPARTMENT (WHERE REQUIRED) AND THE CONTRACTOR SHALL MAKE PRINTS FROM THE REPRODUCIBLES AS REQUIRED FOR DISTRIBUTION. ENGINEER'S REVIEW STAMP WILL BE PROVIDED TO CONTRACTOR IN ELECTRONIC FORMAT AND SHALL BE APPLIED TO ALL DRAWINGS PRIOR TO SUBMITTAL.

THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER.

CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS SHALL BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RE-SUBMITTALS SHALL BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ARCHITECT/ENGINEER REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE RE-SUBMITTAL.

SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ALL FRAMING SHOWN ON THESE DRAWINGS INCLUDING, BUT NOT LIMITED TO: CONCRETE MIXES, CONCRETE AND MASONRY REINFORCING, STRUCTURAL STEEL AND CONNECTIONS, STEEL DECK , LIGHT GAGE FRAMING, WOOD ROOF TRUSS FRAMING

1121 SHOP DRAWINGS FOR SPECIALTY ENGINEERED PRODUCTS:

THE FOLLOWING SYSTEMS AND COMPONENTS AS A MINIMUM REQUIRE FABRICATION AND ERECTION DRAWINGS PREPARED BY A DELEGATED ENGINEER. DELEGATED ENGINEER SHALL POSSESS CURRENT PROFESSIOANL **ENGINEERING** LICENSE IN THE LOCALITY OF THE PROJECT AND SHALL MAINTAIN MINIMUM **PROFESSIOANL** LIABILITY INSURANCE COVERAGE OF $1,000,000:

LIGHT GAGE STEEL EXTERIOR WALL SYSTEMS, ALUMINUM WALL SYSTEMS, GLAZED CURTAIN WALLS, PREFABRICATED STEEL STAIRS & RAILINGS, ARCHITECTURAL PRECAST CONCRETE ELEMENTS, STRUCTURAL PRECAST SYSTEMS, GLASS FIBER REINFORCED CONCRETE PANEL SYSTEMS, OPEN WEB STEEL JOISTS, STRUCTURAL STEEL CONNECTIONS REQUIRING ENGINEERING, TILT-WALL ERECTION DRAWINGS.

SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.

SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER THE DIRECT SUPERVISION AND CONTROL OF THE DELEGATED ENGINEER.

SHOP DRAWINGS AND CALCULATIONS REQUIRE THE IMPRESSED SEAL, DATE AND SIGNATURE OF THE DELEGATED ENGINEER. COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BEAR THE IMPRESSED SEAL AND SIGNATURE OF THE DELEGATED ENGINEER AS AN INDICATION THAT HE/SHE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. SEPIAS DO NOT REQUIRE SIGNATURE AND SEAL. THE STRUCTURAL ENGINEER WILL RETAIN ONE SIGNED AND SEALED BLUELINE PRINT FOR RECORD.

DRAWINGS PREPARED SOLELY TO SERVE AS A GUIDE FOR FABRICATION AND INSTALLATION (SUCH AS REINFORCING STEEL SHOP DRAWINGS OR STRUCTURAL STEEL ERECTION DRAWINGS) AND REQUIRING NO ENGINEERING DO NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.

CATALOG INFORMATION ON STANDARD PRODUCTS DOES NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.

REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFYING THE FOLLOWING:

A. THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.

B. THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE DELEGATED ENGINEER.

C. THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. (NO DETAILED CHECK OF CALCULATIONS WILL BE MADE).

D. THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. (NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE).

SUBMITTALS NOT MEETING THE ABOVE CRITERIA WILL NOT BE REVIEWED.

1122 RFI REVIEW:

CONTRACTOR RFI SHALL STATE CONTRACTOR'S SUGGESTION(S) FOR RESOLUTION & COST IMPLICATIONS OF SUGGESTION(S). ENGINEER OF RECORD IS NOT RESPONSIBLE FOR DETERMINING COST OR COST EFFECTIVENESS OF RFI RESPONSES.

3102 FORMWORK AND SHORING:

NO STRUCTURAL CONCRETE SHALL BE STRIPPED UNTIL IT HAS REACHED AT LEAST TWO THIRDS OF THE 28 DAY DESIGN STRENGTH. DESIGN, ERECTION AND REMOVAL OF ALL FORMWORK, SHORES AND RESHORES SHALL MEET THE REQUIREMENTS SET FORTH IN ACI STANDARDS 347 AND 301.

3201 REINFORCING STEEL:

SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.

3302 CONCRETE:

SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE MIX:

3000 psi FOR BEAMS.

CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.

SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. MIX SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE AGGREGATE. CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE. SLABS SHALL BE CURED USING A DISSIPATING CURING COMPOUND MEETING ASTM STANDARD C309 TYPE 1-D AND SHALL HAVE A FUGITIVE DYE. THE COMPOUND SHALL BE PLACED AS SOON AS THE FINISHING IS COMPLETED OR AS SOON AS THE WATER HAS LEFT THE UNFINISHED CONCRETE. SCUFFED OR BROKEN AREAS IN THE CURING MEMBRANE SHALL BE RECOATED DAILY. CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.

CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE. IF ACCEPTED, PEA ROCK PUMP MIX USE IS LIMITED TO VERTICAL ELEMENT POURS AND BEAM POURS LESS THAN 60 LINEAL FEET PER POUR.

CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS PER CHAPTER 5 OF ACI 318.

WATER/CEMENT RATIO FOR CONCRETE AT EXTERIOR BALCONIES OR ANY SURFACE EXPOSED TO WEATHER SHALL NOT EXCEED 0.40 BY WEIGHT.

3304 CONCRETE TESTING:

AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST IN PLACE CONCRETE:

a)ASTM C143 "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE." MAXIMUM SLUMP SHALL BE ** INCHES.

b)ASTM C39 "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS." A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF), PLACED PER DAY. REQUIRED CYLINDER(S) QUANTITIES AND TEST AGE AS FOLLOWS:

1 AT 7 DAYS
2 AT 28 DAYS

ONE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED. IF 28 DAY STRENGTH IS ACHIEVED, THE ADDITIONAL CYLINDER(s) MAY BE DISCARDED.

4203 MASONRY WALLS:

GROUT SHALL BE 2000 psi MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM C-476. PROVIDE HOOKED DOWELS IN FOOTINGS FOR VERTICAL REINFORCING ABOVE. LAP SPLICES 48 BAR DIAMETERS.

SUBMIT PROPOSED GROUT MIX DESIGN FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. GROUT SLUMP SHALL BE BETWEEN 8 AND 11 INCHES. USE OF SUPERPLASTICIZER IS PROHIBITED.

CELLS TO BE GROUT FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUS VERTICAL GROUT SPACE. CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF CELLS TO BE GROUT FILLED IN EACH POUR IN EXCESS OF 5 FEET IN HEIGHT. ANY OVERHANGING MORTAR OR OTHER OBSTRUCTION OR DEBRIS SHALL BE REMOVED FROM THE INSIDES OF SUCH CELL WALLS. THE CLEANOUTS SHALL BE SEALED BEFORE GROUTING, AFTER INSPECTION.

VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS. CELLS CONTAINING REINFORCEMENT SHALL BE FILLED SOLIDLY WITH GROUT. GROUT SHALL BE POURED IN LIFTS OF 4 FEET MAXIMUM HEIGHT. GROUT SHALL BE CONSOLIDATED AT TIME OF PLACING BY VIBRATING AND RECONSOLIDATED LATER BY VIBRATING BEFORE PLASTICITY IS LOST.

WHEN TOTAL GROUT POUR EXCEEDS 5 FEET IN HEIGHT, THE GROUT SHALL BE PLACED IN 4 FOOT LIFTS. MINIMUM CELL DIMENSION SHALL BE IN ACCORDANCE WITH TABLE 5 OF ACI 530.1 (3" X 3" FOR COARSE GROUT, 12 FT. MAXIMUM POUR HEIGHT).

WHEN THE GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE MADE BY STOPPING THE POUR OF GROUT NOT LESS THAN 1-1/2 INCH BELOW THE TOP OF THE UPPERMOST UNIT GROUTED.

5403 LIGHT GAUGE STEEL FRAMING:

LIGHT GAUGE STEEL FRAMING SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRINCIPLES AND GOVERNING CODES. THE DESIGN SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER WITHIN THE JURISDICTION OF THE PROJECT. SHOP DRAWING SHALL BE SUBMITTED WHICH BEARS THE SIGNATURE, DATE, AND EMBOSSED SEAL OF THE ENGINEER. SHOP DRAWINGS SHALL CLEARLY INDICATE CONNECTIONS AND MATERIALS USED.

WIND ANALYSIS PER ASCE 7-10

Wind Speed, V_{ult} =	150	Nominal Wind Speed, V_{asd}	116	Edge distance, a (ft) =	8.00
Exposure Category =	B	Direct. Factor, Kd =	1.00	Roof Slope,(degrees) =	0.00
Risk Category =	II				

COMPONENT AND CLADDING WIND PRESSURES (ULTIMATE)

		POSITIVE PRESSURES (psf)				NEGATIVE PRESSURES (psf)			
	COMPONENT LOCATION	Ae = 10 ft.	Ae = 20 ft.	Ae = 50 ft.	Ae = 100 ft.	Ae = 10 ft.	Ae = 20 ft.	Ae = 50 ft.	Ae = 100 ft.
WALLS	WITHIN "a" ft. FROM CORNERS	43.6	41.7	39.1	37.2	-58.1	-54.2	-49.1	-45.3
WALLS	ELSEWHERE	43.6	41.7	39.1	37.2	-47.2	-45.3	-42.7	-40.8
ROOF	WITHIN "a" ft. FROM CORNERS	19.4	18.2	16.5	15.3	-120.3	-99.6	-72.3	-51.7
ROOF	WITHIN "a" ft. FROM HIPS & RIDGES	19.4	18.2	16.5	15.3	-79.9	-71.4	-60.2	-51.7
ROOF	AT OVERHANGS					-75.9	-74.7	-73.0	-71.8
ROOF	AT OVERHANGS WITHIN "a" ft. FROM CORNERS					-120.3	-96.0	-63.8	-39.5
ROOF	ELSEWHERE	19.4	18.2	16.5	15.3	-47.6	-46.4	-44.8	-43.6

NOTE: 1) Ae: EFFECTIVE AREA AS DEFINED BY SECTION 1609
2) PRESSURES HAVE BEEN FACTORED FOR THE IMPORTANCE & DIRECTIONALITY FACTORS ABOVE
3) PRESSURES ARE FOR FULLY ENCLOSED CONDITION WITH INTERNAL PRESSURE COEFFICIENT OF +/- 0.18
FOR WIND BORNE REGIONS ONLY (1609.1.2)
GLAZING UP TO 30 FEET SHALL BE IMPACT RESISTANCE FOR LARGE MISSILE AND
GLAZING ABOVE 30 FEET SHALL BE IMPACT RESISTANCE FOR SMALL MISSILE
4) MINIMUM WIND PRESSURE SHALL NOT BE LESS THAN +/- 16 PSF
5) THESE WIND LOADS ARE ULTIMATE VALUES AS DEFINED BY THE 2010 FLORIDA BUILDING CODE. THE WIND LOADS HAVE BEEN FACTORED FOR ULTIMATE DESIGN AND NOT WORKING STRESS DESIGN.
6) FBC 1609.1.5 TESTING TO ALLOWABLE OR NOMINAL LOADS. WHERE TESTING FOR WIND LOAD RESISTANCE IS BASED ON ALLOWABLE OR NOMINAL LOADS, THE DESIGN WIND LOADS DETERMINED IN ACCORDANCE WITH ASCE-7 OR SECTION 1609 (ABOVE TABLE) ARE PERMITTED TO BE MULTIPLIED BY .6 FOR THE PURPOSES OF THE WIND LOAD RESISTANCE TESTING.

ABBREVIATIONS

AB	– ANCHOR BOLT	K	– KIP(s)
ALT	– ALTERNATE	KIP(s)	– 1000 POUNDS
APPROX	– APPROXIMATELY	KLF	– KIPS PER LINEAR FOOT
ARCH	– ARCHITECT	KJ	– CONSTRUCTION JOINT
ARCH'L	– ARCHITECTURAL	L	– ANGLE
B/	– BOTTOM OF	LG	– LONG
BC	– BOTTOM CHORD	LLH	– LONG LEG HORIZONTAL
BLDG	– BUILDING	LLV	– LONG LEG VERTICAL
BM	– BEAM	LP	– LOW POINT
BOTT	– BOTTOM	LW	– LONG WAY
BRG	– BEARING	MFR	– MANUFACTURER
C/C	– CENTER TO CENTER	MAS	– MASONRY
CIP	– CAST IN PLACE	MO	– MASONRY OPENING
CJ	– CONTRACTION JOINT	MAT'L	– MATERIAL
CL	– CENTERLINE	MAX	– MAXIMUM
CLR	– CLEAR	MECH'L	– MECHANICAL
CMU	– CONCRETE MASONRY UNIT	MTL	– METAL
COL	– COLUMN	MIN	– MINIMUM
CONC	– CONCRETE	MISC	– MISCELLANEOUS
CONFIG	– CONFIGURATION	NS	– NEAR SIDE
CONT	– CONTINUOUS	NIC	– NOT IN CONTRACT
CONTR	– CONTRACTOR	NTS	– NOT TO SCALE
CTR	– CENTER	OC	– ON CENTER
DBL	– DOUBLE	OH	– OPPOSITE HAND
DET	– DETAIL	OPNG	– OPENING
DIA	– DIAMETER	PAF	– POWDER ACTUATED FASTENERS
DIM	– DIMENSION	PART	– PARTITION
DN	– DOWN	PART'L	– PARTIAL
DR	– DOOR/DRAIN	PCJ	– PRECAST CONCRETE JOIST
DWG	– DRAWING	PL	– PLATE
EA	– EACH	PLF	– POUNDS PER LINEAR FOOT
EE	– EACH END	PSF	– POUNDS PER SQUARE FOOT
EF	– EACH FACE	PSI	– POUNDS PER SQUARE INCH
EJ	– EXPANSION JOINT	PT	– POST TENSIONED/PRESSURE TREATED
EL	– ELEVATION	R	– RISER/RADIUS
ELEV	– ELEVATION/ELEVATOR	REG	– REGULAR
ENGR	– ENGINEER	REINF	– REINFORCING
EOR	– ENGINEER OF RECORD	REM	– REMAINDER
EOS	– EDGE OF SLAB	REQ'D	– REQUIRED
EQ	– EQUAL	REV	– REVISED/REVISION
EW	– EACH WAY	RM	– ROOM
EXIST	– EXISTING	RO	– ROUGH OPENING
EXP	– EXPANSION	RQMTS	– REQUIREMENTS
EXT	– EXTERIOR	SCHED	– SCHEDULE
FIN	– FINISH	SECT	– SECTION
FLR	– FLOOR	SIM	– SIMILAR
FND	– FOUNDATION	SL	– SLOPE
FOM	– FACE OF MASONRY	SOG	– SLAB-ON-GRADE
FS	– FAR SIDE	SP	– SPIRAL
FT	– FOOT	SQ	– SQUARE
FTG	– FOOTING	SS	– STAINLESS STEEL
GA	– GAGE	STD	– STANDARD
GALV	– GALVANIZED	STL	– STEEL
GC	– GENERAL CONTRACTOR	STRUCT'L	– STRUCTURAL
GT	– GIRDER TRUSS	SW	– SHEARWALL/SHORT WAY
HC	– HOLLOW CORE	T/	– TOP OF
HCP	– HOLLOW CORE PLANK	TB	– TIE BEAM
HDG	– HOT DIPPED GALVANIZED	TC	– TIE COLUMN/TOP CHORD
HG	– HIP GIRDER	TEMP	– TEMPERATURE
HK	– HOOK	TJ	– TIE JOIST
HORIZ	– HORIZONTAL	T/O	– THRU OUT
HP	– HIGH POINT	TR	– TREAD/TRUSS
HS	– HIGH STRENGTH	TYP	– TYPICAL
IJ	– ISOLATION JOINT	UNO	– UNLESS NOTED OTHERWISE
INFO	– INFORMATION	VERT	– VERTICAL
INT	– INTERIOR	W/	– WITH
IRR	– IRREGULAR	W/O	– WITHOUT
JR	– JAMB REINFORCING	WD	– WOOD
JT	– JOINT	WP	– WORK POINT
		WWF	– WELDED WIRE FABRIC

DRAWING INDEX

	DWG NO.	DESCRIPTION
1	S0.0.1	STRUCTURAL NOTES, ABBREVIATIONS
2	S3.2.1	PHASE 2 FOUNDATION PLAN
3	S3.3.1	PHASE 3 FOUNDATION PLAN
4	S4.1.1	SECTIONS & DETAILS
5	S4.2.1	SECTIONS & DETAILS
6		
7		

FAWLEY BRYANT
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Project No.	2013019.06
Drawn By	DAB
Checked By	KH
Date	09-29-14

Revisions:

TRC WORLDWIDE ENGINEERING INC.
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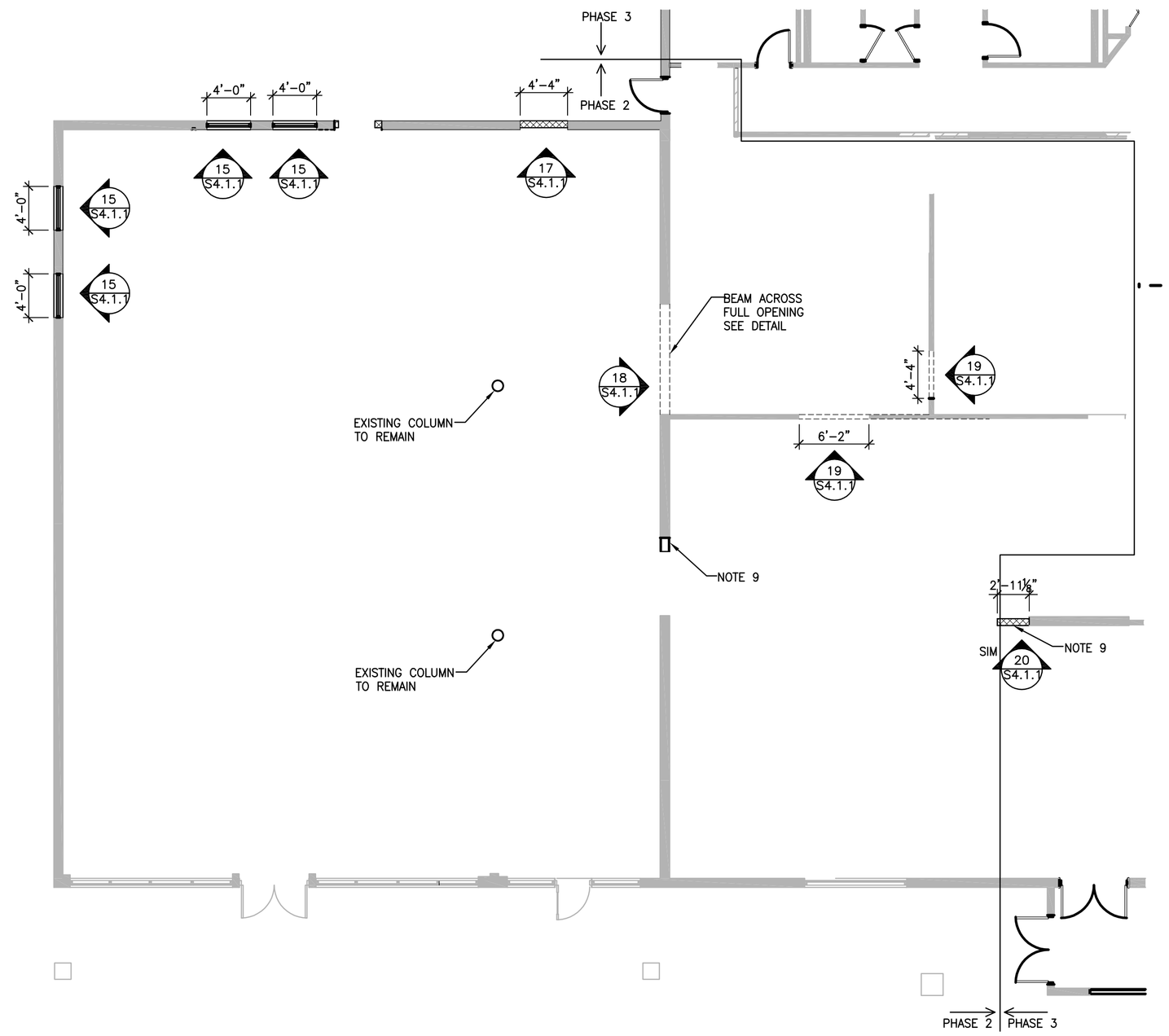
TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE COMPLETED STRUCTURE DEPICTED ON THESE PLANS COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES.
FILE No. 13SAR024

PERMIT SET
SUPERVISOR OF ELECTIONS RENOVATION

S0.0.1

Originals printed @ 24" x 36"
scale as required



NORTH

PHASE 2 FLOOR PLAN

SCALE: ⅛"=1'-0"

PLAN NOTES:

1. LOCATE EXISTING FILLED CELLS IN CMU WALLS. SEE SCHEDULE TO DETERMINE WHAT REINFORCEMENT IS REQUIRED FOR NEW FILLED CELLS.
2. DO NOT CUT OPENINGS UNTIL ARCHITECT HAS REVIEWED AND APPROVED THEIR LOCATIONS.
3. WINDOWS TO HAVE REINFORCED FILLED CELL EACH SIDE OF OPENING.
4. IF SMALL WINDOW IS PLACED WHERE FILLED CELL IS CUT, THEN PROVIDE NEW FILLED CELL ON THE SIDE OF THE WINDOW NEAREST THE CUT.
5. SEE SECTIONS FOR NEW CAST-IN-PLACE BEAM TOP & BOTTOM OF WINDOW, TYP.
6. ALL NEW FILLED CELLS SHALL BE REINFORCED PER SCHEDULE.
7. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF WINDOW OPENINGS, SKYLIGHT AND MECHANICAL UNITS. COORDINATE WITH EXISTING CONDITIONS.
8. RENOVATIONS DETAILED ON THESE PLANS ARE BASED ON CURRENT OBSERVATION OF EXISTING CONDITIONS. THE EXTENT OF THE RENOVATION MAY INCREASE BASED ON EXISTING CONDITIONS DISCOVERED DURING DEMOLITION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.
9. PROVIDE LIGHT GAGE STEEL STUD INFILL TO MATCH EXISTING SIZE & SPACING.
10. WALLS TO BE SHORED & BRACED PRIOR TO AN CUTTING/DEMOLITION. (NOT BY TRC).

NOTE:
DO NOT USE STRUCTURAL DRAWINGS ALONE FOR BUILDING LAYOUT. DO NOT SCALE THESE DRAWINGS MANUALLY OR ELECTRONICALLY. COORDINATE LOCATIONS OF ALL STRUCTURAL ELEMENTS, INCLUDING COLUMNS, WALLS, SLAB EDGES, DEPRESSIONS AND OPENINGS WITH ARCHITECTURAL DRAWINGS AND RESOLVE ANY CONFLICTS PRIOR TO BUILDING LAYOUT. A REGISTERED SURVEYOR SHALL PERFORM BUILDING LAYOUT AND LOCATION OF ALL STRUCTURAL ELEMENTS AT ALL LEVELS.

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PHASE 2 KEY PLAN

MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

600 301 BOULEVARD WEST, SUITE 108, BRADENTON, FL 34205

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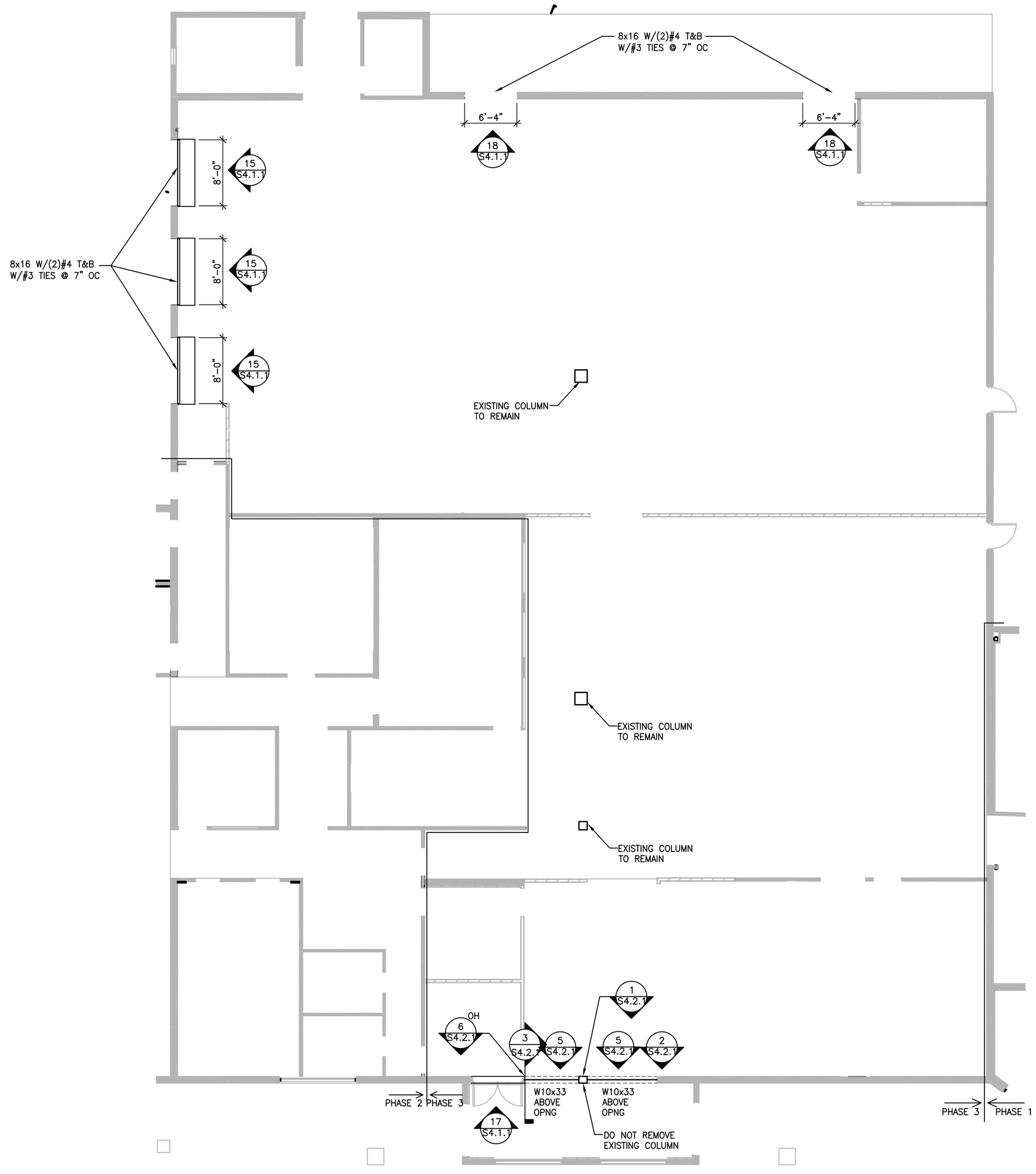
FILE No. 13SAR024

PERMIT SET
SUPERVISOR OF ELECTIONS RENOVATION

S3.2.1

Originals printed @ 24" x 36" scale as required



NORTH

PHASE 3 FLOOR PLAN

SCALE: 1/8"=1'-0"

PLAN NOTES:

1. LOCATE EXISTING FILLED CELLS IN CMU WALLS. SEE SCHEDULE TO DETERMINE WHAT REINFORCEMENT IS REQUIRED FOR NEW FILLED CELLS.
2. DO NOT CUT OPENINGS UNTIL ARCHITECT HAS REVIEWED AND APPROVED THEIR LOCATIONS.
3. WINDOWS TO HAVE REINFORCED FILLED CELL EACH SIDE OF OPENING.
4. IF SMALL WINDOW IS PLACED WHERE FILLED CELL IS CUT, THEN PROVIDE NEW FILLED CELL ON THE SIDE OF THE WINDOW NEAREST THE CUT.
5. SEE SECTIONS FOR NEW CAST-IN-PLACE BEAM TOP & BOTTOM OF WINDOW, TYP.
6. ALL NEW FILLED CELLS SHALL BE REINFORCED PER SCHEDULE.
7. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF WINDOW OPENINGS, SKYLIGHT AND MECHANICAL UNITS. COORDINATE WITH EXISTING CONDITIONS.
8. RENOVATIONS DETAILED ON THESE PLANS ARE BASED ON CURRENT OBSERVATION OF EXISTING CONDITIONS. THE EXTENT OF THE RENOVATION MAY INCREASE BASED ON EXISTING CONDITIONS DISCOVERED DURING DEMOLITION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.
9. PROVIDE LIGHT GAGE STEEL STUD INFILL TO MATCH EXISTING SIZE & SPACING.
10. WALLS TO BE SHORED & BRACED PRIOR TO AN CUTTING/DEMOLITION. (NOT BY TRC).

NOTE:
DO NOT USE STRUCTURAL DRAWINGS ALONE FOR BUILDING LAYOUT. DO NOT SCALE THESE DRAWINGS MANUALLY OR ELECTRONICALLY. COORDINATE LOCATIONS OF ALL STRUCTURAL ELEMENTS, INCLUDING COLUMNS, WALLS, SLAB EDGES, DEPRESSIONS AND OPENINGS WITH ARCHITECTURAL DRAWINGS AND RESOLVE ANY CONFLICTS PRIOR TO BUILDING LAYOUT. A REGISTERED SURVEYOR SHALL PERFORM BUILDING LAYOUT AND LOCATION OF ALL STRUCTURAL ELEMENTS AT ALL LEVELS.

FAWLEY BRYANT
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PHASE 3 KEY PLAN

MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

600 301 BOULEVARD WEST, SUITE 108, BRADENTON, FL 34205

Project No.	2013019.06
Drawn By	DAB
Checked By	KH
Date	09-29-14

Revisions:

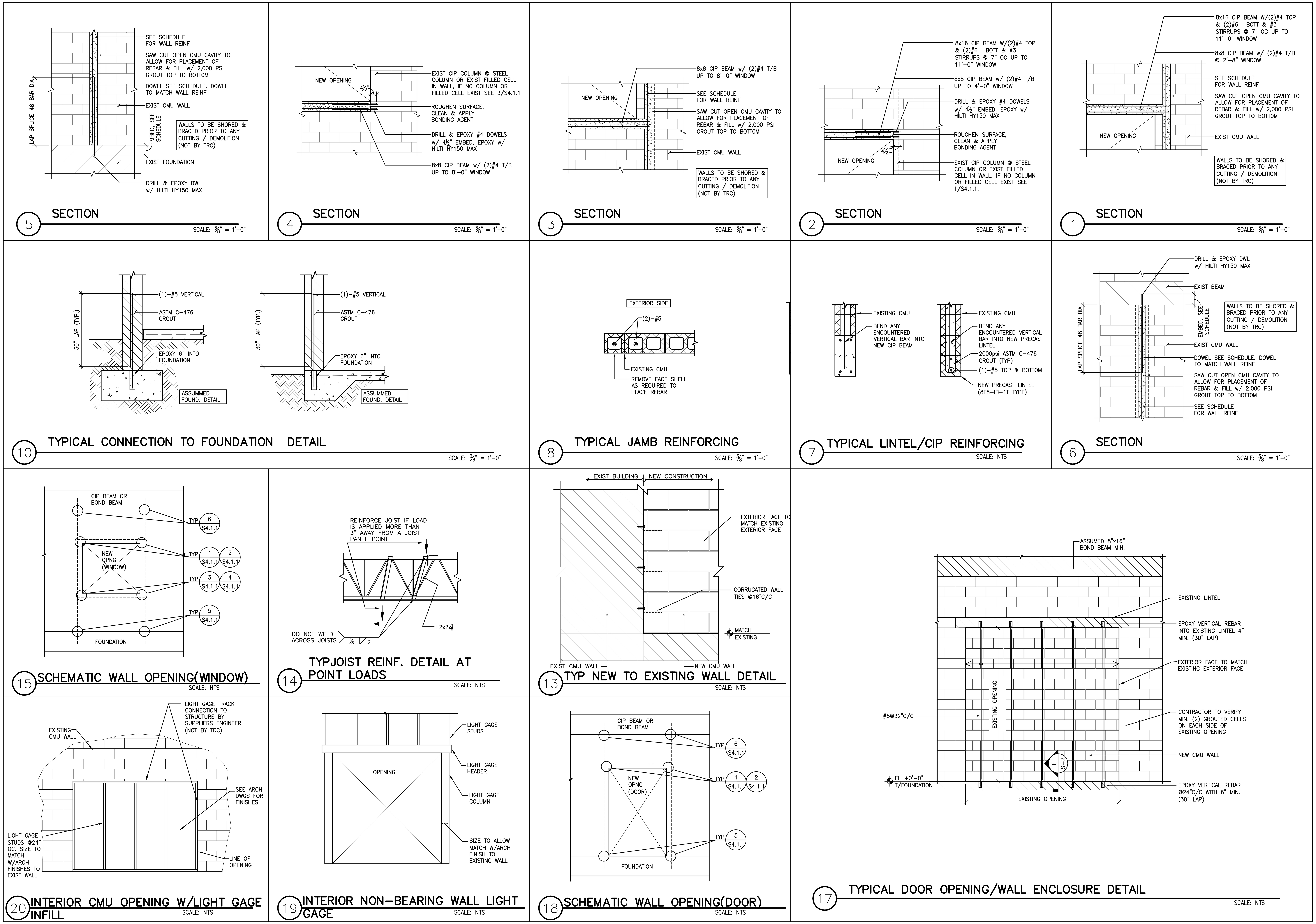
TRC WORLDWIDE ENGINEERING INC.
CERTIFICATE OF AUTHORIZATION NO. 27322
8340 Consumer Court
SARASOTA, FL 34240
PHONE: (941) 952-1717
FAX: (941) 366-7724

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

FILE No. 13SAR024

PERMIT SET
SUPERVISOR OF ELECTIONS RENOVATION

S3.3.1



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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

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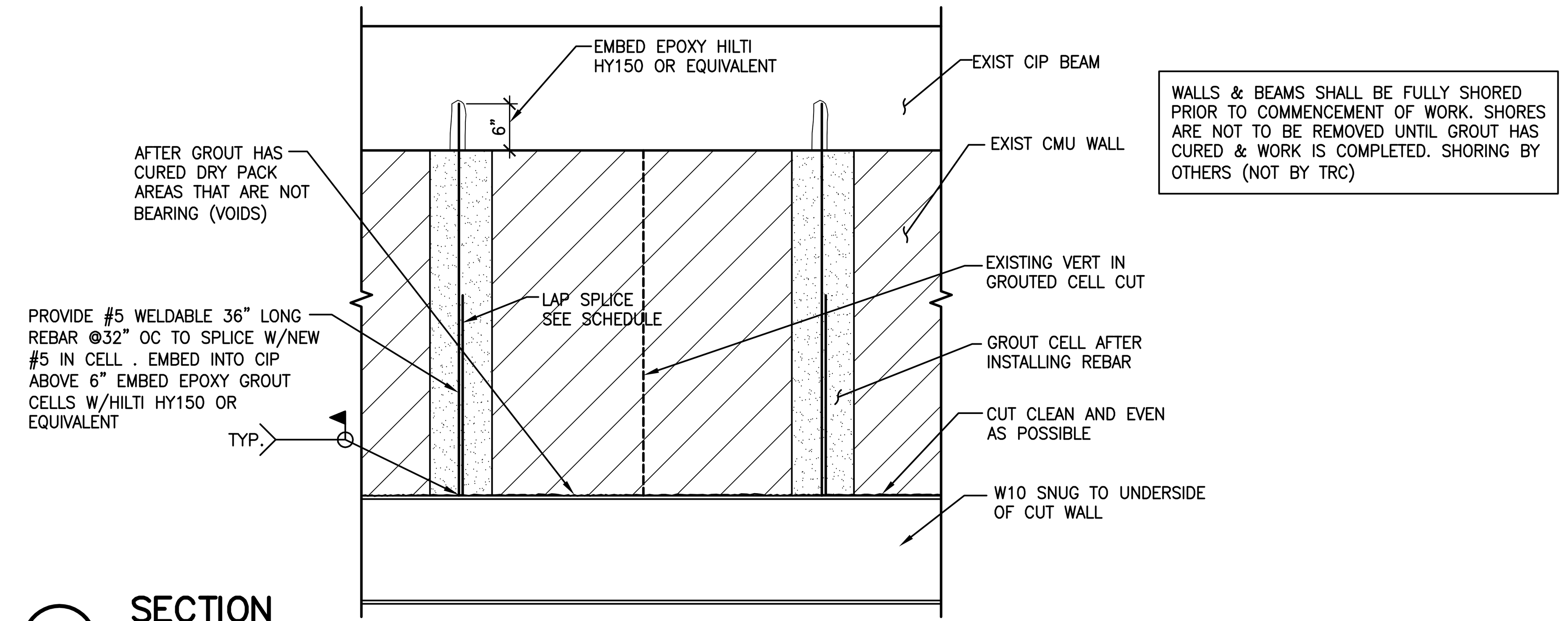
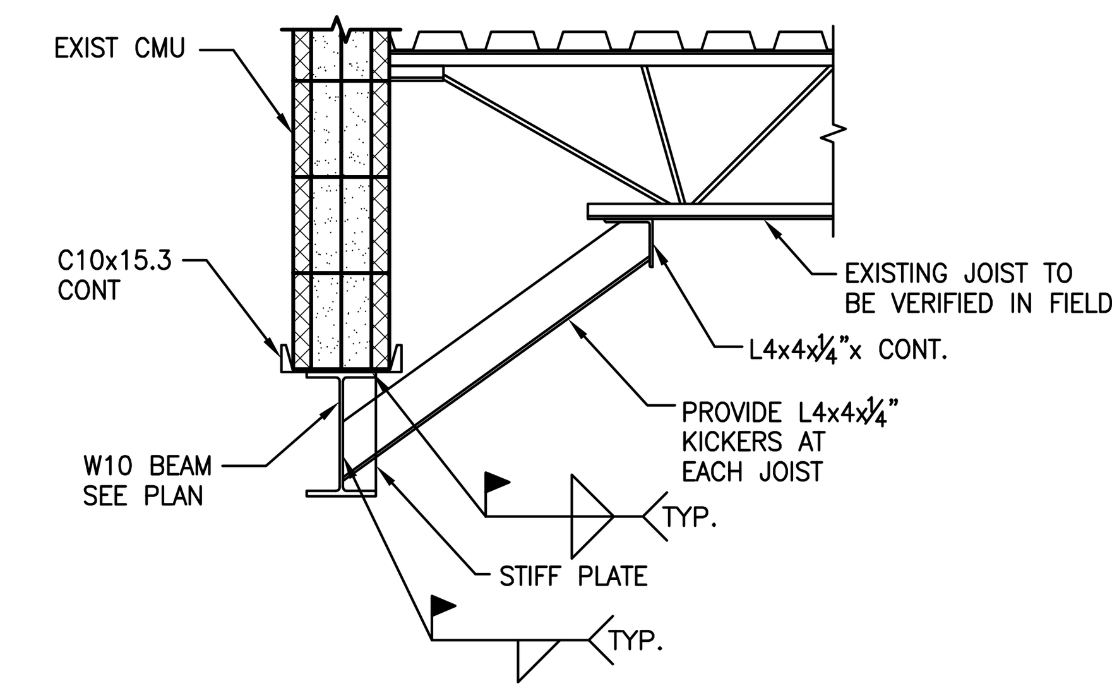
S4.1.1

Originals printed @ 24" x 36" scale as required



5 SECTION
SCALE: ¾" = 1'-0"



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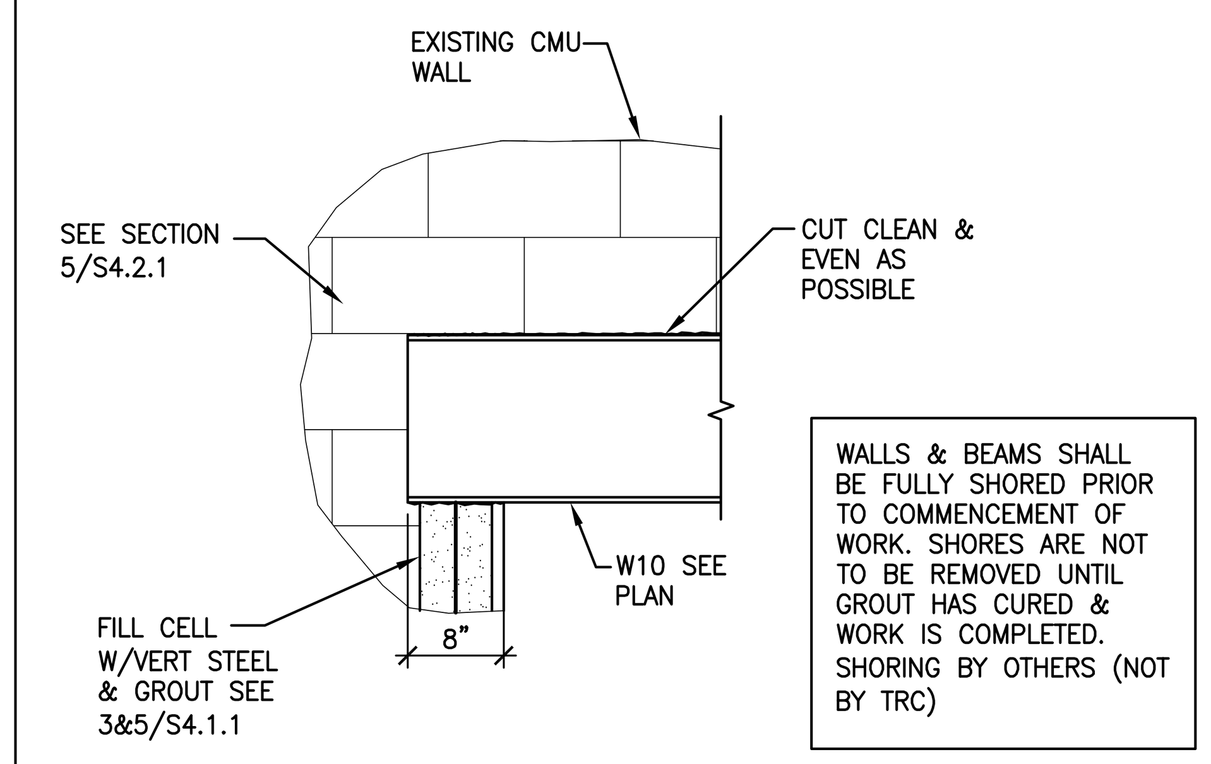

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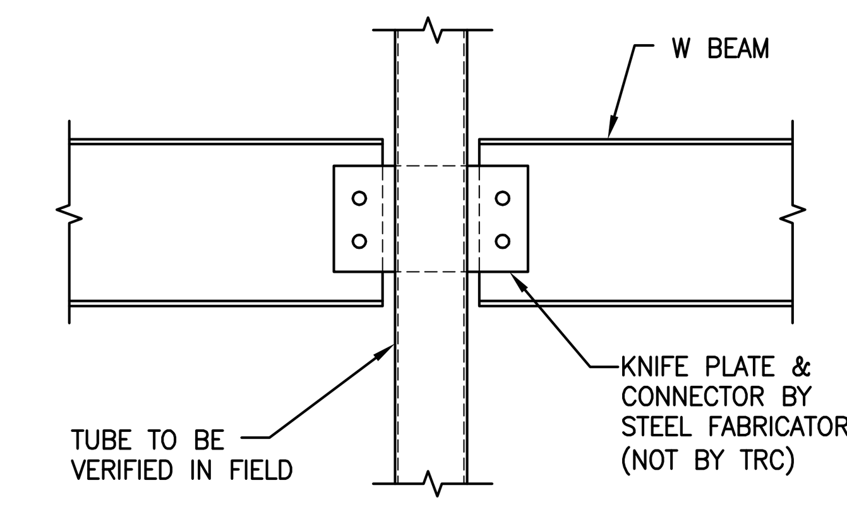
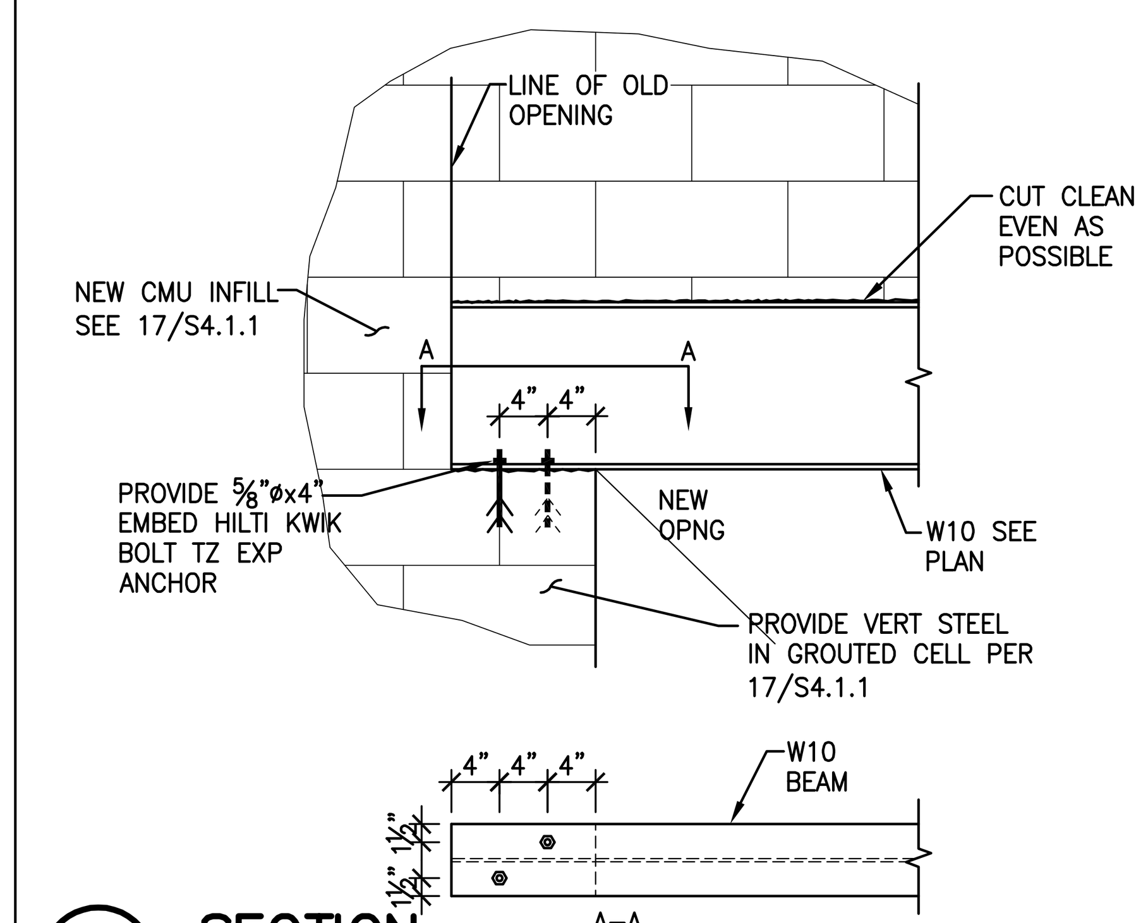


1 SECTION
SCALE: ¾" = 1'-0"

MASONRY VERTICAL REINFORCEMENT LAP SCHEDULE

WALL THICKNESS	BAR	LAP
8"	#4	1'-8"
8"	#5	2'-1"
8"	#6	3'-7"
8"	#7	4'-11"
12"	#4	1'-8"
12"	#5	2'-1"
12"	#6	3'-3"
12"	#7	3'-10"

7 SCHEDULE



6 SECTION
SCALE: ¾" = 1'-0"

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S4.2.1

Originals printed @ 24" x 36"
scale as required

MECHANICAL SPECIFICATIONS

PART 1 - GENERAL
0.01 GENERAL SCOPE

A. THIS PROJECT WILL REQUIRE INSTALLATION OF NEW HVAC SYSTEMS.

1.01 GENERAL DOCUMENTS

A. INSTALLATION SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2010, WHICH INCLUDES THE FLORIDA BUILDING CODE, MECHANICAL AS WELL AS FLORIDA ENERGY CONSERVATION CODE. ALL EQUIPMENT SHALL BE UL LISTED.

B. THE MECHANICAL WORK SHALL INCLUDE FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND SERVICE NECESSARY FOR AND REASONABLY INCIDENTAL TO THE PROPER COMPLETION OF ALL MECHANICAL WORK SHOWN ON THE DRAWINGS AND AS SPECIFIED. ALL MATERIAL SHALL BE NEW.

C. EACH PROSPECTIVE CONTRACTOR SHALL EVALUATE THE SCOPE OF WORK THOROUGHLY PRIOR TO SUBMITTING A BID.

D. SOME CONDUIT, PIPING, AND OTHER OBSTACLES MAY NEED TO BE RELOCATED AND SUCH RELOCATION SHOULD BE INCLUDED IN EACH PROSPECTIVE MECHANICAL CONTRACTOR'S BID.

E. EXISTING EQUIPMENT: THE MECHANICAL CONTRACTOR SHALL RETURN ANY EXISTING MECHANICAL EQUIPMENT SHOW TO BE REMOVED IN THE SCOPE OF WORK AS REQUESTED BY THE OWNER. THIS MAY INCLUDE MAKING PROVISIONS TO RECLAIM THE REFRIGERANT. THE MECHANICAL CONTRACTOR SHALL REMOVE EXISTING MECHANICAL EQUIPMENT NOT REQUESTED BY THE OWNER FROM THE PROJECT SITE AND DISPOSE OF IT IN ACCORDANCE WITH ALL APPLICABLE LAWS

1.02 SUBMITTALS

A. MATERIALS OR PRODUCTS SPECIFIED HEREIN AND/OR INDICATED ON DRAWINGS BY TRADE NAME, MANUFACTURER'S NAME OR CATALOG NUMBERS SHALL BE INTERPRETED AS ESTABLISHING A STANDARD OF QUALITY AND DESIGN. SUBSTITUTIONS MAY BE ALLOWED IF THEY MEET THE QUALITY STANDARDS AND DESIGN INTENT, UNLESS OTHERWISE NOTED.

B. PRIOR TO STARTING THE PROJECT, THE MECHANICAL CONTRACTOR SHALL STUDY THE COMPLETE SET OF CONSTRUCTION DOCUMENTS AND COORDINATE WITH THE MANUFACTURER(S) AS REQUIRED TO PROVIDE EQUIPMENT SUBMITTALS TO SUBMIT TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. THE EQUIPMENT SUBMITTALS SHALL INCLUDE DIMENSIONS, WEIGHTS, SPECIFIED ACCESSORIES AND REQUIRED CLEARANCES, AS WELL AS FAN CURVES, SOUND LEVELS, CONSTRUCTION DETAILS, WARRANTY INFORMATION, AND ALL OTHER RELEVANT DATA.

C. IF ALTERNATES TO THE BASIS OF DESIGN ARE SUBMITTED, THE CONTRACTOR SHALL PROVIDE A CLEAR, DETAILED SUMMARY IN THE SUBMITTALS OF THE DIFFERENCES BETWEEN THE SUBMITTED EQUIPMENT AND THE BASIS OF DESIGN. THE ENGINEER MAY ACCEPT OR REJECT THE ALTERNATES.

1.03 SHOP DRAWINGS

A. PRIOR TO STARTING THE PROJECT, THE MECHANICAL CONTRACTOR SHALL STUDY THE COMPLETE SET OF CONSTRUCTION DOCUMENTS AND COORDINATE WITH THE OTHER TRADES AS REQUIRED TO PROVIDE SHOP DRAWINGS TO SUBMIT TO THE ENGINEER FOR APPROVAL. THE SHOP DRAWINGS MAY BE SUBMITTED AS HAND-DRAWN NOTES UPON A COPY OF THE CONSTRUCTION DOCUMENTS. THE CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND INTENDED SOLELY TO CLARIFY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. THE CONSTRUCTION DOCUMENTS ARE NOT INTENDED TO ALERT THE CONTRACTOR(S) OF ALL OBSTACLES. THE SHOP DRAWINGS SHALL SHOW THE COORDINATION OF DUCTWORK AND MECHANICAL EQUIPMENT INSTALLATION WITH EXISTING AND NEW OBSTACLES INCLUDING, BUT NOT LIMITED TO, ELECTRICAL CONDUITS, FIRE PROTECTION PIPING, RAIN LEADERS, SANITARY DRAINS, STRUCTURAL MEMBERS, AND WATER PIPING, AS WELL AS THE MECHANICAL EQUIPMENT MANUFACTURERS' RECOMMENDED CLEARANCES. THE MECHANICAL CONTRACTOR SHALL ALSO SHOW THE EXISTING CONDITIONS ON THE SHOP DRAWINGS WHERE THE EXISTING CONDITIONS ARE DIFFERENT FROM THOSE SHOWN ON THE CONSTRUCTION DOCUMENTS.

B. FURNISH SIX (6) COPIES OF SHOP DRAWINGS OF EQUIPMENT, MATERIALS AND SYSTEM LAYOUT TO OWNER PRIOR TO PURCHASING ANY EQUIPMENT AND BEGINNING WORK.

1.04 RECORD DRAWINGS

A. AFTER COMPLETION OF ALL WORK, THE MECHANICAL CONTRACTOR SHALL PROVIDE THE OWNER WITH AS BUILT RECORD DRAWINGS. CONTRACTOR SHALL KEEP A RECORD OF THE LOCATIONS OF ALL CONCEALED WORK AND UPON COMPLETION OF THE JOB, SHALL SUPPLY AS-BUILT DRAWINGS SHOWING ANY DEVIATION FROM THE ORIGINAL DRAWINGS. THESE DRAWINGS SHALL INDICATE DIMENSION OF BURIED UTILITY LINES FROM BUILDING WALLS.

PART 2 - INSTALLATION

2.01 EQUIPMENT

A. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED AS REQUIRED BY THE MANUFACTURER'S' INSTALLATION AND MAINTENANCE MANUALS. THOSE MANUALS WILL TYPICALLY PROVIDE MORE DETAIL THAN THE CONSTRUCTION DOCUMENTS. IF THERE IS A CONFLICT BETWEEN THE INSTALLATION AND MAINTENANCE MANUALS AND THE CONSTRUCTION DOCUMENTS, THEN THE MECHANICAL CONTRACTOR SHALL SUBMIT A REQUEST-FOR-INFORMATION TO THE ENGINEER.

B. VIBRATION ISOLATION: THE MECHANICAL CONTRACTOR SHALL PROVIDE VIBRATION ISOLATION AS RECOMMENDED BY THE MANUFACTURER(S) AND/OR REQUIRED BY THE ENGINEER TO ENSURE QUIET OPERATION OF THE MECHANICAL EQUIPMENT. NO UNDUE VIBRATION OR SOUND SHALL BE TRANSMITTED TO THE STRUCTURE OR ANY OCCUPIED SPACES WITHIN THE STRUCTURE.

C. FILTERS: THE MECHANICAL CONTRACTOR SHALL PROVIDE FILTER RACKS FOR THE MECHANICAL EQUIPMENT AS REQUIRED. THE FILTER RACKS SHALL BE INSTALLED SUCH THAT SUFFICIENT CLEARANCES ARE PROVIDED FOR MAINTENANCE AND SHALL BE SEALED AIRTIGHT. THE MECHANICAL CONTRACTOR SHALL PROVIDE A TOTAL OF THREE (3) COMPLETE SETS OF FILTERS FOR ALL MECHANICAL EQUIPMENT IN THE SIZE AND ARRANGEMENT RECOMMENDED BY THE MANUFACTURER. THE FILTERS SHALL PROVIDE ASHRAE FILTRATION EFFICIENCY AS SHOWN ON THE CONSTRUCTION DOCUMENTS OR 30% ASHRAE FILTRATION EFFICIENCY (MERV 6) IF NO HIGHER VALUE IS SPECIFIED.

D. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL STARTERS, CONTACTORS, RELAYS, CONTROLS, AND ACCESSORIES NECESSARY TO PROVIDE A COMPLETE AND WORKING POWER AND CONTROL SYSTEM FOR THE MECHANICAL EQUIPMENT WITHIN THE SCOPE OF WORK. THE ELECTRICAL CONTRACTOR WILL PROVIDE ALL DISCONNECT SWITCHES, CONDUIT, AND WIRING FOR THE MECHANICAL EQUIPMENT WITHIN THE SCOPE OF WORK. ALL ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER OPERATION OF THE COMPLETE SYSTEM AND SHALL ENSURE THAT WIRING DIAGRAMS ARE PROVIDED TO THE OWNER. NO WIRING OF ANY KIND SHALL BE EXPOSED IN FINISHED AREAS.

E. HOUSEKEEPING PADS: THE GENERAL AND MECHANICAL CONTRACTORS SHALL PROVIDE A 4" HIGH CONCRETE HOUSEKEEPING PAD UNDER ALL MECHANICAL EQUIPMENT, UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DOCUMENTS. THE HOUSEKEEPING PAD SHALL EXTEND 8 BEYOND THE MECHANICAL EQUIPMENT ON ALL SIDES.

F. ELECTRIC DUCT HEATERS: ELECTRIC DUCT HEATERS SHALL BE UNDERWRITERS' LABORATORIES LISTED, BEAR THE SEAL OR MARK OF AN APPROVED TESTING AGENCY, AND BE EQUIPPED WITH AN APPROVED, AUTOMATICALLY RESETTING OUTLET AIR TEMPERATURE LIMIT CONTROL THAT WILL LIMIT THE OUTLET AIR TEMPERATURE TO NOT MORE THAN 200°F. THE MECHANICAL CONTRACTOR AND MANUFACTURER SHALL EQUIP THE ELECTRIC ELEMENTS OF THE HEATER WITH FUSIBLE LINKS OR A MANUAL RESET TEMPERATURE CONTROL THAT WILL PREVENT THE OUTLET AIR TEMPERATURE FROM EXCEEDING 250°F. EACH ELECTRIC DUCT HEATER SHALL BE INTERLOCKED WITH THE ASSOCIATED AIR HANDLER TO ENSURE ELECTRIC DUCT HEATER SHUTDOWN IN THE EVENT OF AN AIR HANDLER FAN FAILURE.

THE MECHANICAL CONTRACTOR SHALL ATTACH A BRIGHTLY-COLORED STRIP OF METAL TO EVERY DUCT-MOUNTED ACCESS PANEL. THE STRIP SHALL BE OF SUFFICIENT LENGTH TO HANG A MINIMUM OF 12" BELOW THE BOTTOM OF THE ASSOCIATED DUCT.

THE MECHANICAL CONTRACTOR SHALL PROVIDE A FIRE DAMPER AT EVERY DUCT PENETRATION OF A FIRE-RATED ASSEMBLY AND A FIRE/SMOKE DAMPER WITH A MINIMUM FIRE/SMOKE RATING OF TWO (2) HOURS AT EVERY DUCT PENETRATION OF A SMOKE ASSEMBLY OR CHASE. EACH FIRE/SMOKE DAMPER SHALL CLOSE AND THE ASSOCIATED AIR HANDLER SHALL SHUT DOWN IF EITHER OF THE AIR HANDLER'S OR THE SPACE'S SMOKE DETECTORS ARE ACTIVATED.

THE MECHANICAL CONTRACTOR SHALL PROVIDE ADDITIONAL DUCTWORK AND PIPING SUPPORTS WITHIN EIGHTEEN (18) INCHES OF BOTH SIDES OF ALL FIRE-RATED ASSEMBLIES. DUCTWORK AND PIPING SHALL NOT BE SUPPORTED BY FIRE-RATED WALLS, BUT INSTEAD SHALL BE SUPPORTED BY THE BUILDING STRUCTURE.

2.03 SMOKE DETECTORS

A. INDIVIDUAL AIR HANDLING SYSTEMS WITH A DESIGN CAPACITY OF MORE THAN 2000 CFM SHALL AUTOMATICALLY SHUT DOWN BY MEANS OF AN APPROVED SMOKE DETECTOR PLACED IN THE SUPPLY AIRFLOW AFTER ANY AIR FILTERS AND BEFORE ANY BRANCH CONNECTIONS IN THE SUPPLY DUCTWORK.

B. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SMOKE DETECTORS TO ENSURE THE SMOKE DETECTORS' COMPATIBILITY WITH THE FIRE ALARM SYSTEM. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN HIS/HER BID ALL COSTS ASSOCIATED WITH INSTALLING ALL SMOKE DETECTORS INCLUDING, BUT NOT LIMITED TO, MAKING DUCTWORK MODIFICATIONS AS REQUIRED BY THE MANUFACTURER'S INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL WIRE ALL SMOKE DETECTORS.

C. IF A FIRE ALARM SYSTEM IS NOT AVAILABLE WITHIN THE SCOPE OF WORK, THEN THE MECHANICAL CONTRACTOR SHALL PROVIDE SYSTEM SENSOR MODEL DH100ACDCP 4-WIRE PHOTOELECTRIC SMOKE DETECTORS AS REQUIRED WITH MODEL SSK 451 MULTI-SIGNALING ACCESSORIES LOCATED IN HIGHLY VISIBLE AREAS. IF ANY ONE SMOKE DETECTOR IS ACTIVATED, THEN ALL OF THE ASSOCIATED AIR HANDLING SYSTEMS (UP TO FIVE) SHALL SHUT DOWN. THE MECHANICAL CONTRACTOR SHALL PROVIDE SAMPLING TUBES AS REQUIRED.

D. THE CONTRACTOR-PROVIDED INSTRUCTIONS TO THE OWNER FOR OPERATING AND MAINTAINING ALL MECHANICAL EQUIPMENT SHALL INCLUDE TESTING ALL AUTOMATIC SHUTDOWN DEVICES AT LEAST ONCE PER YEAR. SPECIAL INSTRUCTIONS SHALL BE GIVEN WITH REGARD TO ENSURING THAT SMOKE SENSING DEVICES ARE PROPERLY CLEANED AND CALIBRATED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. MORE INFORMATION IS AVAILABLE IN CHAPTER 4 OF NFPA 90A.

E. THE MECHANICAL AND ELECTRICAL CONTRACTORS SHALL PROVIDE EACH AIR HANDLING SYSTEM WITH A MINIMUM OF ONE (1) MANUALLY-OPERABLE MEANS TO SHUT DOWN ALL SUPPLY, RETURN, EXHAUST, AND OUTSIDE AIR FANS IN AN EMERGENCY. MORE INFORMATION IS AVAILABLE IN CHAPTER 6 OF NFPA 90A.

2.04 DX SYSTEMS

A. ALL REFRIGERANT LINES AND ACCESSORIES SHALL BE SIZED AND INSTALLED PER THE EQUIPMENT MANUFACTURER'S' RECOMMENDATIONS. THE MECHANICAL CONTRACTOR AND MANUFACTURER(S) SHALL STUDY THE COMPLETE SET OF CONSTRUCTION DOCUMENTS AND EXISTING AND PROPOSED CONDITIONS TO ENSURE THAT THE MECHANICAL EQUIPMENT HAS THE CAPACITY TO PROPERLY RETURN OIL TO THE COMPRESSOR(S). THE MECHANICAL CONTRACTOR SHALL ENSURE THAT THE MANUFACTURER(S) IS/ARE AWARE OF THE HORIZONTAL DISTANCE AND VERTICAL RISE BETWEEN EACH AIR HANDLER AND ITS ASSOCIATED CONDENSING UNIT. THE MECHANICAL CONTRACTOR SHALL PROVIDE A REFRIGERANT RISER DIAGRAM SHOWING ALL REFRIGERANT LINE SIZES AND ACCESSORIES WITH THE EQUIPMENT SUBMITTALS. REFRIGERANT LINES SHALL BE FILLED WITH DRY NITROGEN DURING SOLDERING. THE MECHANICAL CONTRACTOR SHALL TEST, CLEAN, AND DEHYDRATE ALL REFRIGERANT LINES AND PROVIDE THE CRITICAL CHARGE(S) OF REFRIGERANT PER THE MECHANICAL EQUIPMENT MANUFACTURER'S' RECOMMENDATIONS. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY VALVES, TRAPS, SIGHT GLASSES, AND OTHER ACCESSORIES AS RECOMMENDED BY THE MECHANICAL EQUIPMENT MANUFACTURER(S). SERVICE FITTINGS SHALL BE ACCESSIBLE. THE MECHANICAL CONTRACTOR SHALL PROVIDE "PATE" PIPE CURB ASSEMBLIES FOR ALL REFRIGERANT LINES PENETRATING ANY ROOF.

B. EACH DX SPLIT SYSTEM'S AIR HANDLER AND CONDENSING UNIT SHALL BE BY ONE MANUFACTURER AND SHALL HAVE OR EXCEED THE CAPACITIES LISTED IN THE EQUIPMENT SCHEDULE(S) ON THE CONSTRUCTION DOCUMENTS. EACH ELECTRIC HEATER SHALL HAVE OR EXCEED THE CAPACITIES AND ELECTRICAL REQUIREMENTS LISTED IN THE EQUIPMENT SCHEDULE(S) ON THE CONSTRUCTION DOCUMENTS. THE MANUFACTURER(S) AND THE MECHANICAL CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL DX MECHANICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO, AN ANTI-SHORT-CYCLE TIMER FOR EACH COMPRESSOR, HEAD PRESSURE CONTROL, HIGH PRESSURE CONTROL (MANUAL RESET), AND LOW PRESSURE CONTROL (AUTO RESET).

C. R410A: EVACUATION AND CHARGING OF REFRIGERANT SYSTEM: AFTER THE COMPLETE REFRIGERANT SYSTEM IS INSTALLED, IT SHALL BE LEAK TESTED WITH OIL-PUMPED, DRY NITROGEN AT A PRESSURE OF 225 PSIG AND ALLOW IT TO REMAIN UNDER PRESSURE FOR TWO (2) HOURS. IF THERE IS NO APPRECIABLE PRESSURE CHANGE, THE SYSTEM MAY BE CONSIDERED LEAK FREE. THE SYSTEM SHALL THEN BE EVACUATED TO 600 MICRONS AS INDICATED BY A RELIABLE VACUUM GAUGE (A STANDARD TESTING AND CHARGING GAUGE WILL NOT BE ACCEPTABLE) FOR 60 MINUTES, THEN BREAK THE VACUUM. NOW RE-EVACUATE THE SYSTEM TO 600 MICRONS AND LET SYSTEM STAND FOR 12 HOURS. IF THE VACUUM READING CHANGES BY LESS THAN 200 MICRONS THEN THE SYSTEM IS READY FOR CHARGING. CHARGE AS PER MANUFACTURERS RECOMMENDATIONS.

2.02 ACCESS PANELS, FIRE DAMPERS, AND FIRE/SMOKE DAMPERS

A. THE MECHANICAL CONTRACTOR SHALL PROVIDE ACCESS PANELS TO ALLOW ACCESS TO VOLUME DAMPERS ABOVE PLASTER OR GYPSUM CEILINGS, TURNING VANES, FIRE DAMPERS, FIRE/SMOKE DAMPERS, DUCT-MOUNTED SMOKE DETECTORS, AND WHERE REQUIRED FOR THE MAINTENANCE OF ALL MECHANICAL EQUIPMENT.

2.05 CONDENSATE DRAIN LINES

A. CONDENSATE DRAIN LINES SHALL BE CONSTRUCTED OF COPPER (TYPE 'L' OR HEAVIER), OR STEEL (MINIMUM SCHEDULE 40). THE MECHANICAL CONTRACTOR SHALL PROVIDE A P-TRAP AT EACH AIR HANDLER'S CONDENSATE DRAIN LINE CONNECTION. EACH CONDENSATE DRAIN LINE SHALL BE SLOPED DOWN A MINIMUM OF ONE-EIGHTH (1/8) INCH PER LINEAR FOOT TOWARD THE ASSOCIATED POINT OF DISCHARGE.

B. THE DIAMETER OF THE CONDENSATE DRAIN LINE SHALL BE EQUAL TO OR GREATER THAN THE CONDENSATE DRAIN LINE CONNECTION. TO AVOID EXCESSIVE DIPS IN AND TO PREVENT ANY SHIFTING OF THE CONDENSATE DRAIN LINES, THE MECHANICAL CONTRACTOR SHALL PROVIDE SUPPORTS AT THE FOLLOWING INTERVALS: THREE (3) FEET FOR CONDENSATE DRAIN LINES CONSTRUCTED OF PVC, SIX (6) FEET FOR CONDENSATE DRAIN LINES CONSTRUCTED OF COPPER, AND TEN (10) FEET FOR CONDENSATE LINES CONSTRUCTED OF STEEL. CONDENSATE DRAIN LINE SUPPORTS SHALL BE FIXED SOLIDLY IN PLACE.

C. THE MECHANICAL CONTRACTOR SHALL ROUTE CONDENSATE DRAIN LINES TO THE EXISTING CONDENSATE DRAINAGE SYSTEM UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DOCUMENTS.

D. THE MECHANICAL CONTRACTOR SHALL INSULATE EACH CONDENSATE DRAIN LINE WITH ONE-HALF (1/2) INCH ARMAFLEX WHEREVER THAT CONDENSATE DRAIN LINE IS ROUTED WITHIN THE STRUCTURE OR THE CONDENSATE MAY OTHERWISE CAUSE DAMAGE.

E. THE MECHANICAL CONTRACTOR SHALL CLEARLY LABEL ALL CONDENSATE DRAIN LINES TO INDICATE CONTENT AND DIRECTION OF FLOW.

2.08 DUCTWORK CONSTRUCTION

A. THE SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION'S "HVAC DUCT CONSTRUCTION STANDARDS" SHALL BE CONSIDERED PART OF THE SPECIFICATIONS FOR THIS PROJECT. ANY WORK THAT DOES NOT COMPLY WITH THESE STANDARDS MAY BE REJECTED AT ANY TIME DURING THE PROJECT.

B. ALL EXHAUST DUCTWORK SHALL BE SHEET METAL. SUPPLY & RETURN DUCTWORK SHALL BE SHEET METAL OR DUCT BOARD.

C. ALL DUCT DIMENSIONS SHOWN ON THE CONSTRUCTION DOCUMENTS ARE INSIDE CLEAR DIMENSIONS. THE MECHANICAL CONTRACTOR SHALL PROVIDE FLEXIBLE CONNECTIONS BETWEEN EACH ITEM OF MECHANICAL EQUIPMENT AND ITS ASSOCIATED DUCT(S). ALL ITEMS OF THE HEATING, VENTILATION, AND AIR CONDITIONING SYSTEM INCLUDING, BUT NOT LIMITED TO, AIR HANDLERS, FANS, DUCTWORK, DIFFUSERS, AND GRILLES SHALL NOT BE SUPPORTED BY THE CEILING OR CEILING SUSPENSION SYSTEM, BUT INSTEAD SHALL BE SUPPORTED BY THE BUILDING STRUCTURE.

D. ALL ELBOWS SHALL HAVE A ONE AND ONE-HALF (1.5) CENTERLINE RADIUS-TO-WIDTH OR RADIUS-TO-DEPTH RATIO OR SHALL BE CONSTRUCTED WITH SINGLE BLADE TURNING VANES. ANGULAR TAPERS SHALL BE LIMITED TO THIRTY (30) DEGREES FOR CONTRACTING TAPERS AND TWENTY (20) DEGREES FOR EXPANDING TAPERS.

E. THE MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 8'-0". FLEXIBLE RETURN DUCT SHALL. FLEXIBLE DUCT SHALL BE INSTALLED AND SUPPORTED SO AS TO PREVENT THE USE OF EXCESS DUCT MATERIAL, PREVENT DISLOCATION OR DAMAGE, AND PREVENT CONSTRICTION OF THE DUCT BELOW THE RATED DUCT DIAMETER. FLEXIBLE DUCT BENDS SHALL MAINTAIN A CENTERLINE RADIUS OF NOT LESS THAN ONE AND ONE-HALF (1.5) DUCT DIAMETERS. SAGS SHALL NOT EXCEED ONE-HALF (0.5) INCH PER LINEAR FOOT OF FLEXIBLE DUCT. HANGERS, SADDLES, AND OTHER SUPPORTS SHALL HAVE A MINIMUM WIDTH OF ONE AND ONE-HALF (1.5) INCHES. THE MECHANICAL CONTRACTOR SHALL PROVIDE SUPPORT FOR FLEXIBLE DUCTWORK WITH A MAXIMUM SPACING OF 5'-0", UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DOCUMENTS OR AUTHORIZED BY THE MECHANICAL ENGINEER.

F. SURFACES UPON WHICH CLOSURE OR SEALING PRODUCTS ARE TO BE APPLIED SHALL BE CLEAN AND DRY IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ALL DUCTWORK SHALL BE SEALED WITH A NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT AS REQUIRED TO MEET THE FLORIDA ENERGY CONSERVATION CODE. THE MECHANICAL CONTRACTOR SHALL PROVIDE HOT-DIPPED GALVANIZED STEEL FASTENERS, ANCHORS, RODS, STRAPS, TRIM, AND ANGLES FOR INTERIOR DUCTWORK SUPPORTS. INTERIOR DUCTWORK SUPPORT SPACING SHALL NOT EXCEED 5'-0

G. IN UNCONDITIONED SPACE: PROVIDE R-8 INSULATION FOR DUCTWORK LOCATED IN UNCONDITIONED SPACES SUCH AS EXTERIOR MECHANICAL ROOMS, VENTED SOFFITS, ETC...

H. THE MECHANICAL CONTRACTOR SHALL PROVIDE INSULATION WITH A MINIMUM R-VALUE OF SIX (6) ON ALL DUCTWORK. CONCEALED DUCTWORK MAY BE INSULATED WITH FLEXIBLE FIBERGLASS INSULATION, BUT ALL EXPOSED DUCTWORK (INCLUDING DUCTWORK LOCATED IN MECHANICAL ROOMS) MUST BE INSULATED WITH FIBROUS DUCTBOARD. ALL DUCTWORK INSULATION, FITTINGS, COVERS, AND FINISHES SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25, A MAXIMUM SMOKE DEVELOPMENT RATING OF 50, AND SHALL BE IN COMPLIANCE WITH NFPA 90A. PROVIDE MINIMUM OF 1/2" FIBERGLASS WITH FOIL/SCRIM VAPOR BARRIER ON THE BACK PAN OF ALL NEW AIR DEVICES.

I. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST OUTLET OR VENT PIPE (UNLESS THE VENT PIPE IS AT LEAST TWO (2) FEET ABOVE THE OUTSIDE AIR INTAKE). THE MECHANICAL CONTRACTOR SHALL PROVIDE SCREENS ON ALL OUTSIDE AIR INTAKES AND EXHAUST OUTLETS AT NO LESS THAN 1/4 BY 1/4 AND NO GREATER THAN 1/2 BY 1/2 .

J. THE MECHANICAL CONTRACTOR SHALL PROVIDE AN OPPOSED-BLADE VOLUME DAMPER FOR EVERY RECTANGULAR BRANCH AND OUTLET AND AT EVERY RECTANGULAR TAKE-OFF FOR A DIFFUSER OR GRILLE. (ROUND OR OVAL BRANCHES, OUTLETS, AND TAKE-OFFS FOR DIFFUSERS AND GRILLES SHALL BE PROVIDED WITH STANDARD VOLUME DAMPERS.) NOT ALL DAMPERS ARE SHOWN ON THE CONSTRUCTION DOCUMENTS. HOWEVER, DAMPERS ARE REQUIRED FOR EVERY BRANCH, OUTLET, AND TAKE-OFF. SOME DAMPERS MAY BE REQUIRED AFTER TRANSITIONS.

K. THE MECHANICAL CONTRACTOR SHALL CLEARLY AND PERMANENTLY MARK EACH VOLUME DAMPER'S OPEN AND CLOSED POSITIONS. THE MECHANICAL CONTRACTOR SHALL PROVIDE A VOLUME DAMPER WITH A 2" STANDOFF WITH A LOCKING QUADRANT THAT IS 24 GAUGES OR 2 GAUGES HEAVIER.

L. PROVIDE AND INSTALL "RUSKIN PRD-18" POSITIVE PRESSURE RELIEF DOORS IN SUPPLY DUCTWORK FOR ALL AIR HANDLER SYSTEMS WITH VAV BOXES, SMOKE DAMPERS OR FIRE DAMPERS. PROVIDE AND INSTALL RUSKIN NRD-18 NEGATIVE PRESSURE RELIEF DOOR IN RETURN DUCTWORK FOR ALL AIR HANDLER SYSTEMS THAT HAVE MOTORIZED RETURN AIR DAMPERS, SMOKE DAMPERS OR FIRE DAMPERS.

M. ALL DUCT SHALL MEET THE FOLLOWING CONSTRUCTION REQUIREMENTS:

- SUPPLY DUCTWORK (UPSTREAM OF ANY VAV): 2.0 IWG POSITIVE STATIC PRESSURE AND VELOCITIES LESS THAN 2500 FPM.
- SUPPLY DUCTWORK (DOWNSTREAM OF ANY VAV): 1.0 IWG POSITIVE STATIC PRESSURE AND VELOCITIES LESS THAN 1600 FPM.
- ALL OTHER RETURN DUCTWORK: 1.0 IWG NEGATIVE STATIC PRESSURE AND VELOCITIES LESS THAN 1600 FPM.
- ALL EXHAUST AND OUTSIDE AIR DUCTWORK: 1.0 IWG POSITIVE OR NEGATIVE STATIC PRESSURE AND VELOCITIES LESS THAN 1600 FPM.
- ALL TRANSFER DUCTWORK: 0.5 IWG POSITIVE OR NEGATIVE STATIC PRESSURE AND VELOCITIES LESS THAN 500 FPM.
- ANY OTHER DUCTWORK: REFER TO SMACNA "HVAC DUCT CONSTRUCTION STANDARDS"

RECTANGULAR STEEL DUCT GAGE

DUCT DIAMETER IN INCHES	WITH FLAT "S" SLIP ON 5' SPACING (GA)	WITH STANDING "S" SLIP ON 5' SPACING (GA)
0 - 12	26	26 B
13 - 14	24	26 B
15 - 18	22	26 B
19 - 20	20	26 C
21 - 26	18	26 C
27 - 28	16	26 C
29 - 30	16	26 D
31 - 36	-	24 D
37 - 42	-	24 E
43 - 60	-	22 G

ALL RECTANGULAR METALLIC DUCTWORK SHALL BE SHOP FABRICATED OF GALVANIZED STEEL SHEETS. FOLLOWING ARE THE SMACNA RECOMMENDATIONS FOR GAUGES AND SEAMS.
CONFORM
TO THE RECOMMENDATIONS OF SMACNA AS TO SEAMS, JOINTS, CROSS BREAKS AND TRANSITIONS, ETC.

STANDING "S" SLIP SIZE

B 1" x 26 GA
C 1"x 22 GA
D 1-1/8" x 22 GA
E 1-1/8" x 18 GA
G 1-5/8" x 18 GA

REFER TO SMACNA TABLES FOR REINFORCEMENT FOR DUCT LENGTHS OTHER THAN FIVE (5) FEET.

ALL ROUND RIGID METAL DUCTWORK CAN BE PREFABRICATED OR SHOP FABRICATED. FOLLOWING ARE THE SMACNA RECOMMENDATIONS FOR GAUGES AND SEAMS. ELBOWS SHALL HAVE CENTERLINE RADIUS OF 1-1/2 TIMES DUCT DIAMETER. THE CONTRACTOR MAY PROVIDE EQUIVALENT ROUND OR RECTANGULAR DUCT AS CONDITIONS AND SPACE PERMIT.

ROUND STEEL DUCT GAGE

DUCT DIAMETER IN INCHES	SPIRAL SEAM IN INCHES	LONGITUDINAL SEAM IN INCHES
3 - 8	28	28
9 - 14	28	26
15 - 26	26	24
27 - 36	24	22
37 - 50	22	20
51 - 60	20	18
61 - 84	18	16

ROUND ALUMINUM DUCT GAGE

DUCT DIAMETER IN INCHES	SPIRAL SEAM IN INCHES	LONGITUDINAL SEAM IN INCHES
3 - 14	.025	.032
15 - 26	.032	.040
27 - 36	.040	.050
37 - 50	.050	.063

2.09 DUCT LEAKAGE PERFROMANCE

A. DUCT CONSTRUCTION AND SEALING SYSTEMS SHALL MEET THE REQUIREMENTS OF THE FLORIDA ENERGY CONSERVATION CODE AND SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS ". IF THERE IS A CONFLICT AMONG THE STANDARDS, THEN THE MORE STRINGENT STANDARD SHALL BE ENFORCED.

B. THE MECHANICAL CONTRACTOR SHALL SEAL ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS. TRANSVERSE JOINTS ARE CONNECTIONS OF TWO DUCT OR FITTING ELEMENTS ORIENTED PERPENDICULAR TO THE DIRECTION OF THE AIRFLOW. LONGITUDINAL SEAMS ARE JOINTS ORIENTED IN THE DIRECTION OF THE AIRFLOW. DUCT WALL PENETRATIONS ARE OPENINGS MADE BY SCREWS, NON-SELF-SEALING FASTENERS, PIPES, TUBING, RODS, AND WIRE. ROUND AND FLAT-OVAL SPIRAL LOCK SEAMS NEED NOT BE SEALED PRIOR TO ASSEMBLY BUT SHALL BE COATED AFTER ASSEMBLY TO REDUCE LEAKAGE. ALL OTHER CONNECTIONS ARE CONSIDERED TRANSVERSE JOINTS INCLUDING, BUT NOT LIMITED TO, SPIN-INS, TAPS OR OTHER BRANCH CONNECTIONS, ACCESS DOOR FRAMES, AND DUCT CONNECTIONS TO EQUIPMENT. MORE INFORMATION IS AVAILABLE IN CHAPTER 35 OF ASHRAE'S "FUNDAMENTALS HANDBOOK ".

2.10 AIR DEVICES

A. THE MECHANICAL CONTRACTOR SHALL VERIFY THE LOCATIONS OF THE DIFFUSERS AND GRILLES AND SUBMIT A REQUEST-FOR-INFORMATION IF THERE IS A CONFLICT BETWEEN THE ARCHITECTURAL AND MECHANICAL PORTIONS OF THE CONSTRUCTION DOCUMENTS. THE MECHANICAL CONTRACTOR SHALL ALSO VERIFY THE TYPES OF CEILINGS IN THE SCOPE OF WORK PRIOR TO ORDERING DIFFUSERS AND GRILLES. FOR DIFFUSERS AND GRILLES LOCATED IN PLASTER OR GYPSUM CEILINGS, THE MECHANICAL CONTRACTOR SHALL PROVIDE METALAIRE MODEL TBPF / TITUS MODEL TRM PLASTER FRAMES. THE FRAMES MAY BE ALUMINUM IN NON-FIRE-RATED CEILINGS BUT MUST BE STEEL IN FIRE-RATED CEILINGS. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE FINISH OF ALL DIFFUSERS AND GRILLES, EXPOSED DUCTWORK, GRAVITY VENTILATORS, LOUVERS, AND WALL CAPS WITH THE OWNER. ALL VISIBLE EXTERIOR COMPONENTS (SUCH AS EXPOSED DUCTWORK AND LOUVERS) SHALL BE PROVIDED WITH A PAINT-GRIP FINISH.

2.11 CONTROLS

A. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROLS AND SUB-CONTRACT TO THE ELECTRICAL CONTRACTOR ALL CONTROLS POWER AND TRANSFORMERS NOT IDENTIFIED IN THE ELECTRICAL PORTION OF THE CONSTRUCTION DOCUMENTS.

B. EACH THERMOSTAT, HUMIDISTAT, AND TEMPERATURE SENSOR SHALL BE INSTALLED AT 4'-6" ABOVE THE FINISHED FLOOR UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DOCUMENTS. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EACH THERMOSTAT, HUMIDISTAT, AND TEMPERATURE SENSOR WITH THE ARCHITECT AND OWNER AND SUBMIT THE PROPOSED LOCATION TO THE MECHANICAL ENGINEER FOR APPROVAL. THE MECHANICAL CONTRACTOR SHALL PROVIDE COORDINATION OF ALL THERMOSTAT, HUMIDISTAT, AND TEMPERATURE SENSOR FINISHES WITH ROOM FINISHES AT NO ADDITIONAL COST TO THE OWNER.

E. ALL 120-VOLT RESTROOM EXHAUST FANS WITH ELECTRICAL REQUIREMENTS OF UP TO 800 WATTS SHALL BE CONTROLLED BY AN OCCUPANCY SENSOR WITH A TIME DELAY. THE INITIAL TIME DELAY SHALL BE SET AT TWENTY (20) MINUTES.

F. THE MECHANICAL CONTRACTOR SHALL PROVIDE A TIME CLOCK FOR ALL EXHAUST AIR FANS. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE INITIAL OCCUPANCY SCHEDULE(S) AND SETTINGS WITH THE OWNER AND PROVIDE TRAINING AS REQUIRED.

PART 3 - EXECUTION

3.01 INSTALLATION

A. OCOORDINATE WORK WITH OTHER TRADES AND EXISTING CONDITIONS PRIOR TO BEGINNING WORK.CONTRACTOR SHALL PROVIDE ROUTING AND OFFSETS NECESSARY TO AVOID CONFLICT WITH STRUCTURE, FINISHES, AND WORK OF OTHER TRADES.

3.02 DISINFECTING OF POTABLE WATER SYSTEM

A. THE SYSTEM SHALL BE FILLED WITH A SOLUTION CONTAINING 50 PARTS PER MILLION OF AVAILABLE CHLORINE AND ALL ALLOWED TO STAND 24 HOURS BEFORE FLUSHING AND RETURNING TO SERVICE. DISINFECTION PROCEDURE AND RESULT SHALL BE SUBJECT TO THE APPROVAL OF THE LOCAL MECHANICAL INSPECTOR.

3.03 TEST

A. ALL MECHANICAL SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE MECHANICAL. ALL TESTS SHALL BE APPROVED BY THE LOCAL MECHANICAL INSPECTOR AND SHALL BE OBSERVED BY A REPRESENTATIVE OF THE ARCHITECT.

3.04 SYSTEM IDENTIFICATION

A. THE MECHANICAL CONTRACTOR SHALL PROVIDE IDENTIFICATION TAGS FOR ALL NEW EQUIPMENT, PIPING AND VALVES IN THE BUILDING. TAGS SHALL BE METAL WITH ENGRAVED UNIT/TAG NUMBER.

3.05 TESTING, ADJUSTING AND BALANCING

A. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE SERVICES OF AN INDEPENDENT TEST AND BALANCE AGENCY TO TEST, BALANCE, AND CERTIFY THE PERFORMANCE OF THE COMPLETE HEATING, VENTILATION, AND AIR CONDITIONING SYSTEM. THE TEST AND BALANCE CONTRACTOR SHALL PERFORM ALL TESTING, ADJUSTING, BALANCING, AND DATA RECORDING NECESSARY TO ESTABLISH THE CAPACITY AND QUALITY OF THE SYSTEMS AND CONFIRM THE SATISFACTORY COMPLETION OF ALL ASPECTS OF THE SCOPE OF WORK. THIS WILL INCLUDE NOT ONLY THE NEW SYSTEMS, BUT ALSO ALL OF THE EXISTING SYSTEMS THAT HAVE BEEN MODIFIED. ANYTIME FLOWS OR CALCULATIONS ARE SHOWN ON PLANS, DETAILS OR SCHEDULES, TEST & BALANCE IS REQUIRED.

B. THE TEST AND BALANCE CONTRACTOR SHALL BE AN APPROVED MEMBER OF THE AABC OR NEBB AND SHALL SPECIALIZE IN THE TESTING AND BALANCING OF HEATING, VENTILATION, AND AIR CONDITIONING SYSTEMS.

C. THE TEST AND BALANCE CONTRACTOR SHALL ENSURE THAT THE BUILDING IS UNDER POSITIVE PRESSURE AT THE CONCLUSION OF THE TEST AND BALANCE PROCESS. IF THE BUILDING IS NOT UNDER POSITIVE PRESSURE AT THE CONCLUSION OF THE TEST AND BALANCE PROCESS, THEN THE TEST AND BALANCE AND MECHANICAL CONTRACTORS SHALL IMMEDIATELY AND WITHOUT DELAY NOTIFY THE ARCHITECT AND MECHANICAL ENGINEER.

D. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN HIS/HER BID THE COST OF ANY SHEAVE CHANGES REQUIRED FOR REBALANCING THE SYSTEM.

3.06 SUBSTANTIAL AND FINAL COMPLETION

A. THE MECHANICAL CONTRACTOR SHALL MAINTAIN A SET OF CONTINUOUSLY UPDATED, REPRODUCIBLE AS-BUILT DRAWINGS DURING CONSTRUCTION AND PROVIDE A COMPLETE SET OF THOSE DRAWINGS IN BOTH ELECTRONIC AND HARDCOPY FORMATS TO THE OWNER UPON FINAL COMPLETION.

B. THE MECHANICAL CONTRACTOR SHALL CLEAN ALL COOLING AND HEATING COILS, CONDENSATE PANS, AND CONDENSATE DRAIN LINES PRIOR TO SUBSTANTIAL COMPLETION. THE MECHANICAL CONTRACTOR SHALL ALSO REPLACE ALL FILTERS AND BELTS PRIOR TO SUBSTANTIAL COMPLETION AND PROVIDE TWO (3) COMPLETE REPLACEMENT SETS OF FILTERS AND (2) SETS OF BELTS FOR ALL MECHANICAL EQUIPMENT TO THE OWNER UPON FINAL COMPLETION.

3.07 WARRANTY

A. THE MECHANICAL CONTRACTOR SHALL WARRANT ITS WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE OF ALL WORK.

B. THE MECHANICAL CONTRACTOR SHALL PROVIDE FIVE (5) BOUND COPIES OF ALL MECHANICAL CONTRACTOR WARRANTIES, MANUFACTURER'S' WARRANTIES, PARTS LISTS, AND INSTALLATION AND MAINTENANCE MANUALS FOR ALL MECHANICAL EQUIPMENT, AS WELL AS INSTRUCTIONS FOR OPERATING AND MAINTAINING ALL MECHANICAL EQUIPMENT TO THE OWNER UPON FINAL COMPLETION.

1 MECHANICAL SPECIFICATIONS
NOT TO SCALE

MECHANICAL LEGEND

- RIGID DUCT - DOUBLE LINE
- RIGID DUCT - SINGLE LINE
- FLEXIBLE DUCT - INSULATED
- FLEXIBLE DUCT - INSULATED
- SUPPLY AIR DUCT - SECTION
- RETURN AIR DUCT - SECTION
- DUCT TRANSITION
- ELBOW WITH "AIRFOIL" TURNING VANES
- VD MANUAL VOLUME DAMPER (VD)
- SUPPLY AIR DIFFUSER
- RETURN AIR OR VENTILATION EXH. GRILLE
- T H THERMOSTAT OR HUMIDISTAT
- FIRE DAMPER
- U 3/4" UNDERCUT
- G 16X16 DOOR GRILLE
- SPIN-IN FITTING WITH VOLUME DAMPER

MECHANICAL SHEET INDEX

M0.1	-	MECHANICAL SPECIFICATIONS & LEGEND
M3.1		NOT USED
M3.2	-	MECHANICAL HVAC DEMOLITION PLAN PHASE II
M3.3	-	MECHANICAL HVAC DEMOLITION PLAN PHASE III
M4.1	-	NOT USED
M4.2	-	HVAC PLAN PHASE-2
M4.3	-	HVAC PLAN PHASE-3
M5.1	-	NOT USED
M5.2	-	NOT USED
M10.1	-	MECHANICAL DETAILS
M12.1	-	MECHANICAL SCHEDULES

Job Number: 4096.13.00
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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

MECHANICAL SPECIFICATIONS

Project No.	2013019.06
Drawn By	ACG
Checked By	MAS
Date	09.29.14

Revisions:

"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

CONSTRUCTION DOCUMENTS

M0.1

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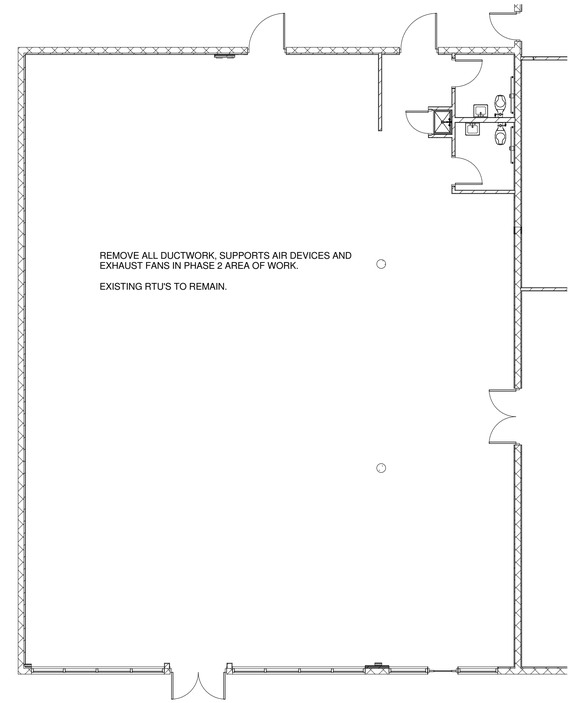

1 MECHANICAL DEMOLITION PLAN PHASE II
1/8" = 1'-0"

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MECHANICAL DEMOLITION PLAN PHASE II

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CONSTRUCTION DOCUMENTS

M3.2

Job Number: 4096.13.00

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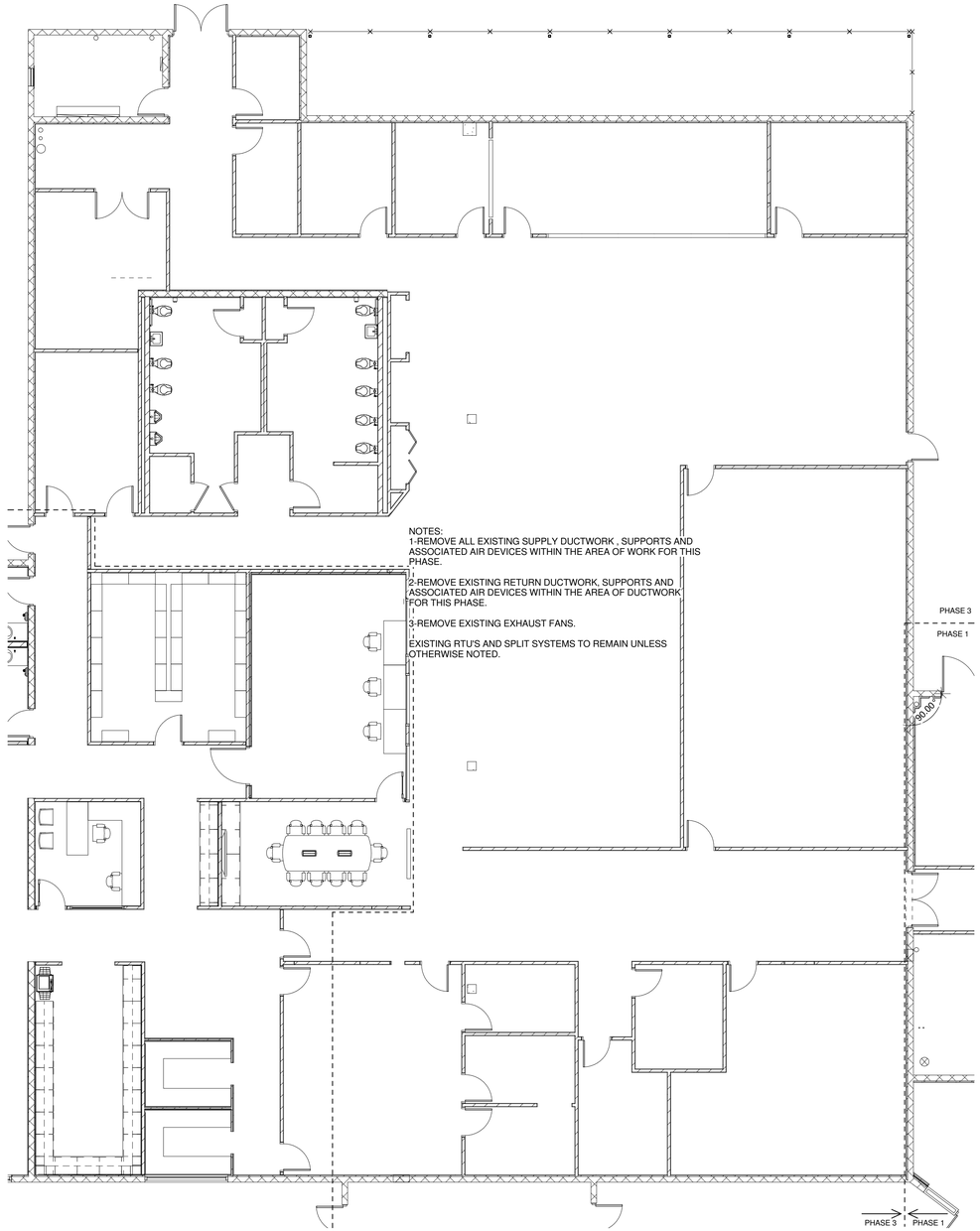

1 MECHANICAL DEMOLITION PLAN PHASE III
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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

MECHANICAL DEMOLITION PLAN PHASE III

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CONSTRUCTION DOCUMENTS

M3.3

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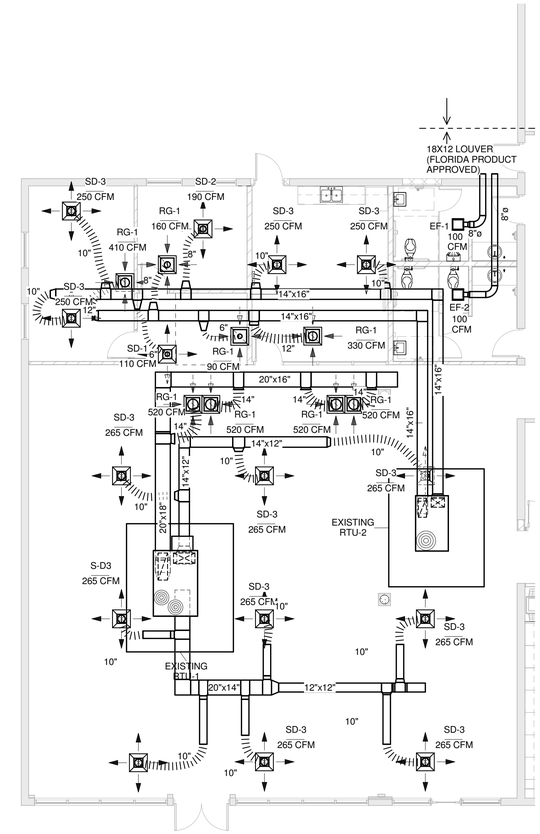

1 MECHANICAL PLAN PHASE II
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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

MECHANICAL PLAN PHASE II

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CONSTRUCTION DOCUMENTS

M4.2

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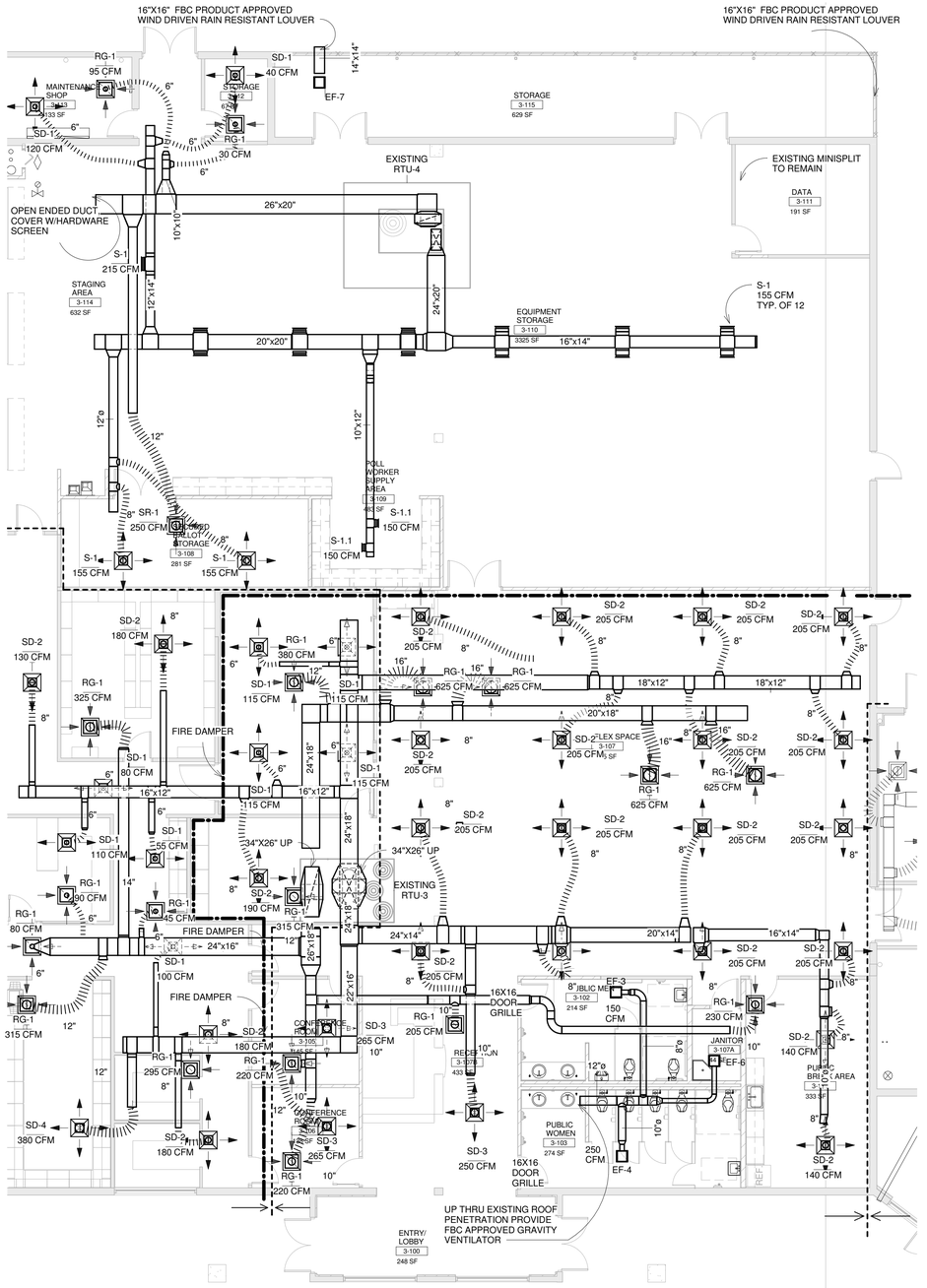

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

MECHANICAL PLAN PHASE III

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CONSTRUCTION DOCUMENTS

M4.3

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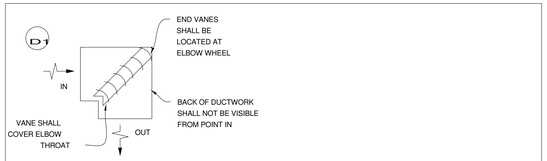
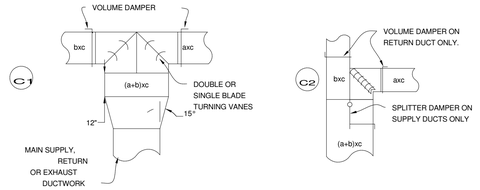
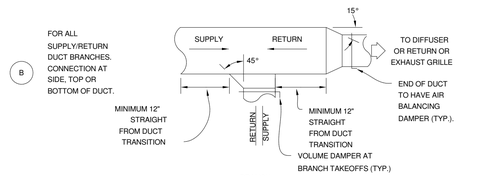
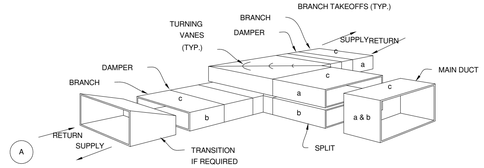




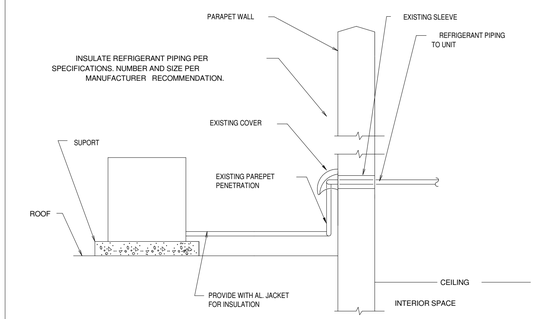




TYPICAL BRANCH DUCT &

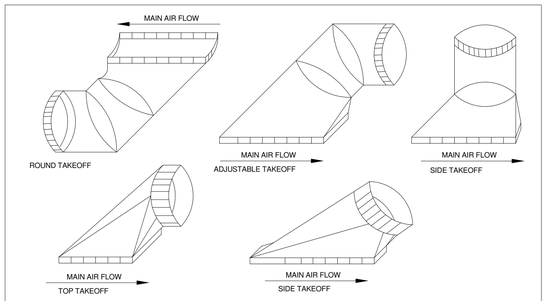
FITTINGS DETAILS

NOT TO SCALE

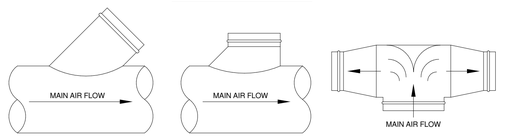


CONDENSING UNIT DETAIL

NOT TO SCALE



RECTANGULAR OR SQUARE TO ROUND

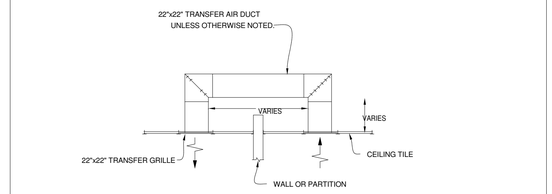


ROUND TO ROUND

TYPICAL TAKE-OFFS DETAIL

NOT TO SCALE

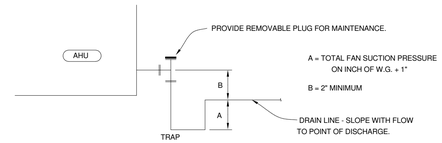
G.S.I. -	06-13
SECTION -	15400
DETAIL # -	002



TRANSFER DUCT DETAIL

NOT TO SCALE

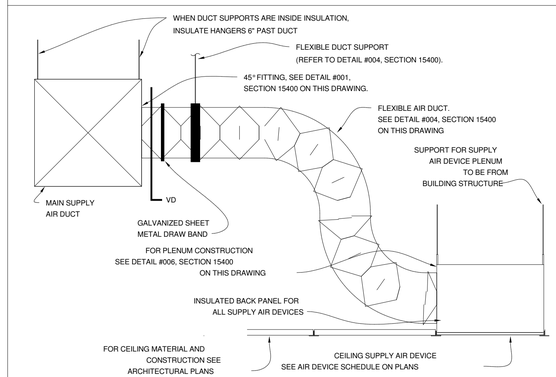
NOTE: DETAIL DIMENSION IS FOR DRAW THRU TYPE UNIT, FOR BLOW THRU UNITS "A" DIMENSION SHALL BE FAN DISCHARGE PRESSURE ON INCHES +1"



NOTE: CONDENSATE DRAIN LINE SHALL BE A MINIMUM OF ONE DIAMETER LARGER THAN UNIT DRAIN CONNECTION. 3/4" ARMAFLEX INSULATION INSIDE BUILDING.

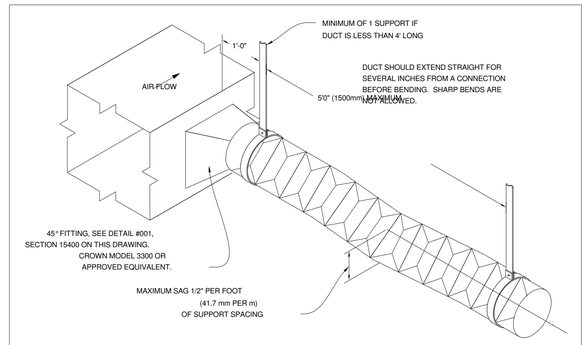
AHU CONDENSATE DRAIN TRAP DETAIL

NOT TO SCALE



SUPPLY AIR DEVICE SIDE CONNECTION DETAIL

NOT TO SCALE

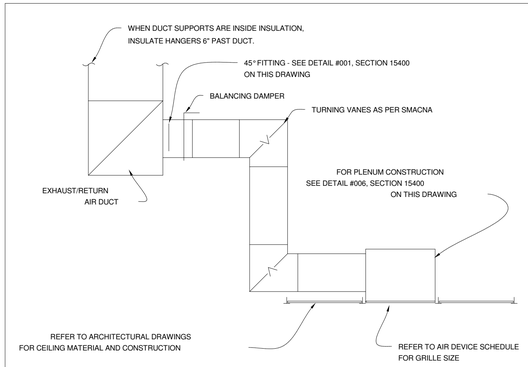


NOTE: CLOSER MAXIMUM HANGER INTERVALS MAY BE SPECIFIED AS A CONDITION OF U.L. LISTING, PARTICULARLY IN FIRE RATED FLOOR-CEILING ASSEMBLIES.

FLEXIBLE DUCT SUPPORTS DETAIL

NOT TO SCALE

AS PER HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE SMACNA - THIRD EDITION



RETURN/EXHAUST AIR DEVICE SIDE CONNECTION DETAIL

NOT TO SCALE

1 MECHANICAL DETAILS
NOT TO SCALE

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

MECHANICAL DETAILS

Project No.	2013019.06
Drawn By	ACG
Checked By	MAS
Date	09.29.14

Revisions:

"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

CONSTRUCTION DOCUMENTS

M10.1

Originals printed @ 24" x 36" scale as required

Job Number: 4096.13.00

GLOBAL SANCHEZ, INC
BUILDING SYSTEMS ENGINEERING
info@global-sanchez.com CA#: 6237
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Bradenton, FL 34208
Phone: 941-758-2551
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Tampa, FL 33629
Phone: 813-281-0001

EXHAUST FAN SCHEDULE

MARK	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	EF-7
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL	SP-A250	SP-A250	SP-A390	SP-A390	SP-B110	SP-B110	SP-A700
CFM	100	100	150	250	50	50	650
E.S.P. (IN. W.G.)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
FAN TYPE	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING
MOTOR SIZE (WATTS OR BHP)	83 W	83 W	150 W	150 W	80 W	80 W	786 W
ELECTRICAL (V/PH/HZ)	115/1/60	115/1/60	115/1/60	115/1/60	120/1/60	120/1/60	120/1/60
SOUND (SONES)	2.3	2.3	2.9	3.7	1.1	1.1	4.5
WEIGHT (LBS)	25	25	25	25	10	10	60
SERVICE	STAFF MEN 2-110	STAFF WOMEN 2-111	PUBLIC MEN 3-102	PUBLIC WOMEN 3-103	JANITOR STORAGE 1-102	RR 3-102A	STORAGE 3-115
CONTROLS	INTERLOCK W/LIGHT SWITCH	INTERLOCK W/LIGHT SWITCH	INTERLOCK W/LIGHT SWITCH	INTERLOCK W/LIGHT SWITCH	INTERLOCK W/LIGHT SWITCH	INTERLOCK W/LIGHT SWITCH	INTERLOCK W/TIME CLOCK
NOTES	①②③④⑤	①②③④⑤	①②③④⑤	①②③④⑤	①②③④⑤	①②③④⑤	①②③④

① PROVIDE FLEXIBLE CONNECTORS AT ALL DUCT CONNECTIONS TO FAN.

② PROVIDE FAN WITH GRAVITY BACKDRAFT DAMPER.

③ PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH.

④ PROVIDE FAN WITH SPEED CONTROLLER. MOUNT SPEED CONTROLLER IN 2X4 METALLIC BOX ADJACENT TO FAN IN CEILING. TEST AND BALANCE CONTRACTORS SHALL ADJUST FAN PERFORMANCE THROUGH USE OF SPEED CONTROLLER.

⑤ PROVIDE FAN WITH ADJUSTABLE TIME DELAY RELAY FOR FAN TO CONTINUE TO OPERATE WHEN SWITCH IS OPENED.

EXISTING RTU BALANCING SCHEDULE

TAG	SUPPLY AIR	OUTDOOR AIR	RETURN AIR	EXIST. MODEL NUMBER	NOTES
RTU-1	2390	310	2080	50TM-008	①②
RTU-2	1205	215	990	D1EB036	①②
RTU-4	3060	590	2470	DH120C00A	①②
RTU-6	2655	455	2200	50TM-008	①②
AHU-1	900	165	735	RBHA-17J06	①②

NOTES

① CLEAN COOLING COILS AND REPLACE FILTERS.

② RELOCATE EXISTING THERMOSTATS (COORDINATE WITH OWNER PRIOR TO INSTALLATION).

AIR DISTRIBUTION SCHEDULE

MARK	FACE SIZE	NECK SIZE	MATERIAL	ACCESSORIES	FINISH	MANUFACTURER AND MODEL	NOTES
SD-1	24X24	6"	ALUMINUM	-	-	TITUS-TMS-AA	①②
SD-2	24X24	8"	ALUMINUM	-	-	TITUS-TMS-AA	①②
SD-3	24X24	10"	ALUMINUM	-	-	TITUS-TMS-AA	①②
SD-4	24X24	12"	ALUMINUM	-	-	TITUS-TMS-AA	①②
SD-5	24X24	14"	ALUMINUM	-	-	TITUS-TMS-AA	①②
SD-S1	12X12	6"	ALUMINUM	-	-	TITUS-TMS-AA	①②
RG-S1	12X12	10X10	ALUMINUM	-	-	TITUS-50F	①②
EG-1	24X24	22X22	ALUMINUM	-	-	TITUS-50F	②
RG-1	24X24	22X22	ALUMINUM	-	-	TITUS-50F	②
TG-1	24X24	22X22	ALUMINUM	-	-	TITUS-50F	②

SIDE WALL DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL #	DESCRIPTION	SIZE	BORDER	COLOR
S-1	TITUS	300RL	SIDEWALL SUPPLY	18x10	WALL-MOUNT	WHITE
S-1.1	TITUS	300RL	SIDEWALL SUPPLY	10x10	WALL-MOUNT	WHITE
SR-1	TITUS	300RL	SIDEWALL RETURN	18 x12	WALL-MOUNT	WHITE

○ FLEX DUCT SIZE TO MATCH NECK SIZE. MINIMUM LENGTH OF FLEX SHALL BE 6'-0" TO MAXIMUM LENGTH OF 10'-0", BALANCE OF DUCT SHOWN ON PLAN SHALL BE RIGID STEEL DUCT SAME SIZE AS NECK SIZE, EXTERNALLY INSULATED.

② PROVIDE RUNOUT BRANCH DUCT TO AIR DEVICE SAME SIZE AS AIR DEVICE NECK UNLESS OTHERWISE NOTED ON PLANS. PROVIDE O.B.D. MODEL # AG-15-AA FOR AIR DEVICES IN HARD CEILING.

① MECHANICAL SCHEDULES
NOT TO SCALE

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

MECHANICAL SCHEDULES

Project No.	2013019.06
Drawn By	ACG
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info@global-sanchez.com CA#: 6237

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LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS QTY	LAMPS TYPE	VOLTS	MOUNTING	COMMENTS
A2	LITHONIA	2SP8-G-228-A12125-120-GEB10IS	2	28W T8	120V	GRID CEILING	2' X 4', 2-LAMP LENSED TROFFER. SPECIFICATION PREMIUM GRADE, HIGH PERFORMANCE, STATIC. #12 PATTERN ACRYLIC, 0.125" THICK, DIFFUSER LENS.
	APPROVED EQUAL FROM TAMPA BAY LIGHTING						
	APPROVED EQUAL FROM SESCO LIGHTING						
	APPROVED EQUAL FROM WESTERN FLORIDA LIGHTING						
B	LITHONIA	TK232 MV-745975276387-T8-4-96-28-120-277	4	28W T8	120V	SUSPENDED	1'x8', (4) LAMP PENDANT
	APPROVED EQUAL FROM TAMPA BAY LIGHTING						
	APPROVED EQUAL FROM SESCO LIGHTING						
	APPROVED EQUAL FROM WESTERN FLORIDA LIGHTING						
D	LITHONIA	LF6N 2/26DTT MVOLT GMF	2	26W DTT	120V	CEILING GRID	6" ROUND COMPACT FLUORESCENT DOWNLIGHT. HORIZONTAL LAMP. CLEAR SEMI-SPECULAR OPEN REFLECTOR
	APPROVED EQUAL FROM TAMPA BAY LIGHTING						
	APPROVED EQUAL FROM SESCO LIGHTING						
	APPROVED EQUAL FROM WESTERN FLORIDA LIGHTING						
EL	LITHONIA	EU2-M6	2	5.4W	120/ 277V	WALL MOUNT	EMERGENCY EGRESS LIGHT. WHITE, LOW-PROFILE HOUSING. SEALED, MAINTENANCE-FREE, LEAD CALCIUM BATTERY.
	APPROVED EQUAL FROM TAMPA BAY LIGHTING						
	APPROVED EQUAL FROM SESCO LIGHTING						
	APPROVED EQUAL FROM WESTERN FLORIDA LIGHTING						
EX	LITHONIA	EXG-EL-M6	LED	3.8W	120/ 277V	CEILING OR WALL MOUNT	EXIT SIGN. WHITE THERMOPLASTIC HOUSING WITH GREEN LETTERS. MAINTENANCE-FREE NI-CAD BATTERY.
	APPROVED EQUAL FROM TAMPA BAY LIGHTING						
	APPROVED EQUAL FROM SESCO LIGHTING						
	APPROVED EQUAL FROM WESTERN FLORIDA LIGHTING						
EXL	LITHONIA	ECG-M6	2	5.4W	120/ 277V	WALL MOUNT	COMBINATION EXIT SIGN AND EMERGENCY EGRESS LIGHT. WHITE THERMOPLASTIC HOUSING WITH GREEN LETTERS. MAINTENANCE-FREE BATTERY.
	APPROVED EQUAL FROM TAMPA BAY LIGHTING						
	APPROVED EQUAL FROM SESCO LIGHTING						
	APPROVED EQUAL FROM WESTERN FLORIDA LIGHTING						
F	LITHONIA	SP8-G-232-A12125-120-GEB10IS	2	28W T8	120V	HARD CEILING	1' X 4', 2-LAMP LENSED TROFFER. SPECIFICATION PREMIUM GRADE, HIGH PERFORMANCE, STATIC. #12 PATTERN ACRYLIC, 0.125" THICK, DIFFUSER LENS. INSTALL DRYWALL FRAME "DGA14".
	APPROVED EQUAL FROM TAMPA BAY LIGHTING						
	APPROVED EQUAL FROM SESCO LIGHTING						
	APPROVED EQUAL FROM WESTERN FLORIDA LIGHTING						
W	LITHONIA	CSXW-LED-30C-700-40K-T4M-120-XXXX	1	LED	120V	SURFACE/ WALL	EXTERIOR WALL PACK COORDINATE FINISH WITH ARCHITECT
	APPROVED EQUAL FROM TAMPA BAY LIGHTING						
	APPROVED EQUAL FROM SESCO LIGHTING						
	APPROVED EQUAL FROM WESTERN FLORIDA LIGHTING						

ELECTRICAL SHEET INDEX

ELECTRICAL SYMBOL LEGEND

SWITCHES

- **WATTSTOPPER AS-100 MANUAL/AUTOMATIC SWITCH. SWITCH CAN BE MANUALLY OPERATED AND IS ALSO CONTROLLED BY LIGHTING CONTROL CABINET FOR "SWEEP OFF" WITHIN A 24 HOUR PERIOD PER FLORIDA ENERGY CODE REQUIREMENTS. SWITCH HAS PUSHBUTTON OVERRIDE IF OCCUPANTS ARE PRESENT. RECESS MOUNT 48" AFF TO CENTER OF BACKBOX. "3" OR "4" INDICATES SWITCH IS USED FOR 3-WAY OR 4-WAY OPERATION, FOLLOW MANUFACTURER'S WIRING DIAGRAM FOR CONNECTION OF SWITCHES.**
- **"2P" INDICATES A 2-POLE SWITCH**
- **"3" INDICATES THREE-WAY SWITCH**
- **"4" INDICATES FOUR-WAY SWITCH**
- **"30A" INDICATES THE AMPERAGE OF THE SWITCH FOR NON-STANDARD SWITCHES**
- **"D" INDICATE DIMMER SWITCH**
- **"K" INDICATES KEY SWITCH. PROVIDE OWNER WITH (2) KEYS PER SWITCH. MATCH ANY EXISTING KEYED SWITCHES IF RENOVATION. VERIFY KEY TYPE (MANUFACTURER) WITH OWNER**
- **"M" INDICATES THE SWITCH SHALL BE MOTOR DUTY RATED**
- **"MMS" INDICATES MANUAL MOTOR STARTER WITH SINGLE POLE, GUARD/LOCK- OFF, RED PILOT LIGHT AND THERMAL OVERLOAD IN NEMA-1 ENCLOSURE**
- **"S" INDICATES OCCUPANCY SENSOR SWITCH**
- **"P" INDICATES SWITCH WITH PILOT LIGHT.**
- **"R" INDICATES DEVICE SHALL BE A RED COLOR. DEVICE IS CONNECTED TO A CIRCUIT FED FROM A GENERATOR (IF APPLICABLE).**
- **LOWER CASE LETTER (i.e. "a") INDICATES THE FIXTURE(S) CONTROLLED BY THE SWITCH.**

LIGHTING FIXTURES (REFER TO THE "LIGHTING FIXTURE SCHEDULE")

- **NOTE: THE FOLLOWING ABBREVIATIONS APPLY TO LIGHTING FIXTURES WHERE INDICATED: UPPER CASE LETTER (i.e. 'A') INDICATES FIXTURE TYPE. LOWER CASE LETTER (i.e. 'b') INDICATES CONNECTION TO INDICATED SWITCH.**
- **NOTE: THE FOLLOWING ABBREVIATIONS APPLY TO LIGHTING FIXTURES WHERE INDICATED: "NL" INDICATES NIGHT LIGHT FIXTURE**
- **EXIT SIGN WITH BATTERY PACK MOUNTED 7'-6" AFF, OR AS INDICATED. FACES AND ARROWS AS INDICATED. CONNECT FIXTURE TO LIGHTING CIRCUIT SERVING THE AREA, AHEAD OF ANY SWITCHING OR CONTROLS.**
- **EMERGENCY EGRESS LIGHTING UNIT WITH BATTERY PACK MOUNTED 7'-6" AFF OR AS INDICATED. CONNECT FIXTURE TO LIGHTING CIRCUIT SERVING THE AREA, AHEAD OF ANY SWITCHING OR CONTROLS.**
- **EXIT SIGN AND EMERGENCY EGRESS LIGHTING COMBO UNIT WITH BATTERY PACK MOUNTED 7'-6" AFF. CONNECT FIXTURE TO LIGHTING CIRCUIT SERVING THE AREA, AHEAD OF ANY SWITCHING OR CONTROLS.**
- **PASSIVE INFRARED (PIR) OCCUPANCY SENSOR. 360°. 450 SQ. FT. COVERAGE. LEVITON #OSC04-INW. CONNECT TO LOCAL POWER PACK.**
- **MULTI-TECHNLOGY (PIR & ULTRASONIC) OCCUPANCY SENSOR. 360°. 1000 SQ. FT. COVERAGE. SENSOR SWITCH CM-PDT-10. CONNECT TO LOCAL POWER PACK.**
- **OCCUPANCY SENSOR POWER PACK. 20A @120/277VAC. PROVIDE QUANTITY AS NEEDED. SENSOR SWITCH PP-20-2P. CONNECT TO LOCAL OCCUPANCY SENSORS.**

COMMUNICATIONS

- **1-GANG DEEP BOX FOR TELEPHONE OUTLET, RECESS MOUNT 18" TO CENTER OF BACKBOX AFF, ABOVE COUNTER OR AS NOTED. INSTALL 3/4" CONDUIT WITH BUSHINGS AND PULL STRING STUBBED INTO ACCESSIBLE CEILING SPACE ABOVE BACKBOX. INSTALL BLANK COVERPLATE. NUMBER OF PHONE JACKS AS INDICATED OR INSTALL BLANK COVERPLATE. 'W' INDICATES PHONE WILL BE WALL MOUNTED, MOUNT AT 48" AFF TO CENTER OF BACKBOX AND INSTALL WALL PHONE PLATE.**
- **TV — (2) GANG DEEP BOX WITH DECORA STYLE DUPLEX RECEPTACLE AND TELEVISION OUTLET. COORDINATE MOUNTING HEIGHT AND LOCATION. INSTALL 3/4" CONDUIT FOR LOW VOLTAGE WIRING WITH BUSHINGS AND PULL STRING STUBBED INTO ACCESSIBLE CEILING SPACE ABOVE BACKBOX. INSTALL DECORA COVERPLATE.**
- **1-GANG DEEP BOX FOR TELEPHONE / DATA OUTLET, RECESS MOUNT 18" TO CENTER OF BACKBOX AFF, ABOVE COUNTER OR AS NOTED. INSTALL 3/4" CONDUIT WITH BUSHINGS AND PULL STRING STUBBED INTO ACCESSIBLE CEILING SPACE ABOVE BACKBOX. INSTALL BLANK COVERPLATE.**
- **CABINET. SEE PLANS AND SPECIFICATIONS FOR USAGE AND REQUIREMENTS.**

MISCELLANEOUS

- **KEYED NOTE INDICATOR. REFER TO THE "KEY NOTES" WHERE INDICATED.**
- **EXHAUST FAN.**
  - **'R' SYMBOL INDICATES TO PROVIDE AND INSTALL 10 MINUTE TIME DELAY OFF RELAY. EXHAUST FAN SHALL OPERATE FOR 10 MINUTES AFTER LIGHTING SWITCH IS TURNED OFF. CONNECT HOT LEAD FROM AHEAD OF SWITCH TO RELAY FOR DELAYED OPERATION AND SWITCH LEG TO RELAY FOR NORMAL OPERATION.**
  - **'T' SYMBOL INDICATES TO PROVIDE AND INSTALL 277V-120V TRANSFORMER. WATTAGE OF TRANSFORMER VA SHALL BE A MINIMUM 20% GREATER THAN EXHAUST FAN POWER REQUIREMENTS, COORDINATE WITH MECHANICAL CONTRACTOR.**
- **MD — MOTORIZED DAMPER. PROVIDE POWER AND MAKE CONNECTIONS AS INDICATED. COORDINATE WITH MECHANICAL CONTRACTOR.**
- **SP — CEILING MOUNTED SPEAKER LOCATIONS ON A/V SYSTEM**

ABBREVIATIONS

A	AMPERE	NF	NON-FUSED
AFF	HEIGHT ABOVE FINISHED FLOOR	P	POLE
AFG	HEIGHT ABOVE FINISHED GRADE	PH	PHASE
ETR	EXISTING TO REMAIN	REL	RELOCATED
GFI	GROUND FAULT CIRCUIT INTERRUPTING TYPE WIRING DEVICE OR CIRCUIT BREAKER	REM	TO BE REMOVED
		REP	REPLACE WITH NEW
KW	KILOWATT	TBR	TO BE RELOCATED
LTG	LIGHTING	U.N.O.	UNLESS NOTED OTHERWISE
MTR	MOTOR	VA	VOLT AMPERE (POWER)
N.I.C.	NOT IN CONTRACT	WP	WEATHERPROOF ENCLOSURE
		XFMR	TRANSFORMER
		+48"	DEVICE MOUNTED AT HEIGHT INDICATED

WIRING DEVICES

NOTE: THE FOLLOWING ABBREVIATIONS APPLY TO WIRING DEVICES WHERE INDICATED:

- **'WP' INDICATES WEATHERPROOF WHILE-IN-USE ENCLOSURE. ENCLOSURE SHALL HAVE LOCKABLE COVER.**
- **'EWC' INDICATES DEVICE MOUNTED BEHIND ELECTRIC WATER COOLER ENCLOSURE. COORDINATE DEVICE LOCATION WITH PLUMBING CONTRACTOR AND APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN.**
- **'H' INDICATES HORIZONTALLY MOUNTED WIRING DEVICE.**
- **'R' INDICATES DEVICE SHALL BE A RED COLOR. DEVICE IS CONNECTED TO A CIRCUIT FED FROM THE GENERATOR (IF APPLICABLE).**
- **"FD" INDICATES RECEPTACLE MOUNTED IN FLOOR DUCT. INSTALL ACCESSORIES FOR MOUNTING OF RECEPTACLE IN FLOOR DUCT SYSTEM.**
- **20 AMP SIMPLEX RECEPTACLE, RECESS MOUNT 18" AFF TO CENTER OF BACKBOX OR AT HEIGHT INDICATED.**
- **20 AMP DUPLEX RECEPTACLE, RECESS MOUNT 18" AFF TO CENTER OF BACKBOX.**
- **20 AMP DUPLEX RECEPTACLE, RECESS MOUNT AT HEIGHT INDICATED OR ABOVE COUNTER, CASEWORK, ETC. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND EXISTING CONDITIONS PRIOR TO ROUGH-IN.**
- **AFCI — 20 AMP DUPLEX RECEPTACLE WITH ARC FAULT CIRCUIT INTERRUPTER (AFCI) PROTECTION, RECESS MOUNT AT HEIGHT INDICATED OR ABOVE COUNTER, CASEWORK, ETC. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND EXISTING CONDITIONS PRIOR TO ROUGH-IN.**
- **AFCI — 20 AMP DUPLEX RECEPTACLE WITH ARC FAULT CIRCUIT INTERRUPTER (AFCI) PROTECTION, RECESS MOUNT 18" AFF TO CENTER OF BACKBOX. 1 OF 2 RECEPTACLES IS SWITCHED, REMOVE JUMPER BETWEEN OUTLETS.**
- **AFCI — 20 AMP DUPLEX RECEPTACLE WITH ARC FAULT CIRCUIT INTERRUPTER (AFCI) PROTECTION, RECESS MOUNT 18" AFF TO CENTER OF BACKBOX.**
- **20 AMP DOUBLE DUPLEX (QUAD) RECEPTACLE WITH COMMON COVER PLATE, RECESS MOUNT 18" AFF TO CENTER OF BACKBOX.**
- **20 AMP DOUBLE DUPLEX (QUAD) RECEPTACLE WITH COMMON COVER PLATE, RECESS MOUNT ABOVE COUNTER, CASEWORK, ETC OR AT HEIGHT INDICATED. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND CONDITIONS PRIOR TO ROUGH-IN.**
- **20 AMP DUPLEX RECEPTACLE, RECESS MOUNT 18" AFF TO CENTER OF BACKBOX. 1 OF 2 RECEPTACLES IS SWITCHED, REMOVE JUMPER BETWEEN OUTLETS.**
- **20 AMP DUPLEX RECEPTACLE. RECESS FLUSH WITH FLOOR IN SINGLE GANG FLOOR BOX. COVER SHALL BE BRASS WITH HINGED LID FOR EACH OUTLET OF RECEPTACLE.**
- **20 AMP DOUBLE DUPLEX (QUAD) RECEPTACLE. RECESS FLUSH WITH FLOOR IN DOUBLE GANG FLOOR BOX. COVER SHALL BE BRASS WITH HINGED LID FOR EACH OUTLET OF RECEPTACLES.**
- **GFCI — GFCI TYPE SIMPLEX RECEPTACLE MOUNTED AT HEIGHT OR AS INDICATED. VERIFY RATING AND NEMA CONFIGURATION FOR EQUIPMENT TO BE CONNECTED.**
- **GFCI — 20 AMP GFCI TYPE DUPLEX RECEPTACLE, RECESS MOUNT 18" AFF TO CENTER OF BACKBOX.**
- **GFCI — 20 AMP GFCI TYPE DUPLEX RECEPTACLE, RECESS MOUNT ABOVE SINK, COUNTER, CASEWORK, ETC. OR AT HIEGHT INDICATED. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND CONDITIONS PRIOR TO ROUGH-IN.**
- **GFCI — 20 AMP GFCI TYPE DOUBLE DUPLEX (QUAD) RECEPTACLE WITH COMMON COVER PLATE, RECESS MOUNT 18" AFF TO CENTER OF BACKBOX.**
- **MULTI-POLE RECEPTACLE FOR APPLIANCE MOUNTED AS INDICATE. COORDINATE AMPERAGE RATING, POLES, NEMA CONFIGURATION, ETC. WITH EQUIPMENT TO BE CONNECTED.**
- **MULTI-POLE SPECIALTY RECEPTACLE MOUNTED AS INDICATED. COORDINATE AMPERAGE RATING, POLES, NEMA CONFIGURATION, ETC. WITH EQUIPMENT TO BE CONNECTED.**
- **20 AMP DUPLEX RECEPTACLE, RECESS MOUNT HORIZONTALLY AT HEIGHT INDICATED.**
- **20 AMP DUPLEX RECEPTACLE MOUNTED 18" AFF, ABOVE COUNTER, OR AT HEIGHT INDICATED (INDICATES RECEPTACLE COORDINATED WITH DATA OUTLET FOR COMPUTER USE).**
- **20 AMP DOUBLE DUPLEX (QUAD) RECEPTACLE MOUNTED 18" AFF, ABOVE COUNTER, OR AT HEIGHT INDICATED (INDICATES RECEPTACLE COORDINATED WITH DATA OUTLET FOR COMPUTER USE).**
- **POWER POLE. 2-SECTION (POWER AND COMMUNICATIONS), 2" SQUARE METALLIC, BRUSHED ALUMINUM FINISH. DEVICES MOUNTED AT POLE AS SHOWN. POLE SHALL EXTEND FROM FLOOR TO CEILING, SECURE TO CEILING.**
- **20 AMP DUPLEX RECEPTACLE, FLUSH MOUNT AT CEILING. SUPPORT BACKBOX FROM STRUCTURE, NOT GRID.**
- **2-SECTION FLOOR BOX WITH DUPLEX RECEPTACLE AND DATA SECTION. FLOOR BOX SHALL BE FLUSH WITH FLOOR WITH CARPET/TILE PLATE AND TRAP DOOR FOR WIRING OUT OF BOX.**
- **J — JUNCTION BOX.**
- **DC — DROP CORD. RECEPTACLE AND BOX SUSPENDED FROM JUNCTION BOX AT CEILING WITH S/O CORD. PROVIDE STRAIN RELIEF AT EACH END OF CORD. RECEPTACLE SHALL BE TYPE OF DEVICE SHOWN.**
- **PLUGMOLD WITH RECEPTACLES 12" ON-CEMTER. PLUGMOLD SHALL BE NON-METALLIC, 2-PIECE. MOUNT AS INDICATED. VERIFY COLOR OF FINISH.**

POWER DISTRIBUTION (REFER TO THE "ELECTRICAL RISER DIAGRAM")

- **PANELBOARD, RECESS MOUNT IN FINISHED SPACES, SURFACE MOUNT IN BACK OF HOUSE. REFER TO THE "PANELBOARD SCHEDULE".**
- **FEEDER OR BRANCH CIRCUIT RACEWAY CONCEALED IN WALL, CEILING.**
- **FEEDER OR BRANCH CIRCUIT RACEWAY CONCEALED UNDER FLOOR, IN SLAB OR BELOW GRADE.**
- **DISCONNECT SWITCH. PROVIDE DISCONNECT SWITCH AS INDICATED ON THE SCHEDULES. REFER TO PLANS AND SCHEDULES FOR ADDITIONAL REQUIREMENTS. FUSES SHALL BE DUAL ELEMENT TIME DELAY. VERIFY NAMEPLATE RATINGS OF FRAME SIZE AND FUSING OF THE ACTUAL EQUIPMENT TO BE INSTALLED.**
- **DRY-TYPE VENTILATED TRANSFORMER. SEE SPECIFICATIONS, PLANS AND RISER FOR REQUIREMENTS. TRANSFORMERS SHALL BE NEMA 1 UNLESS AT THE EXTERIOR OR IN AREAS WHERE WATER MAY BE PRESENT. MOUNT ON 4" HOUSE KEEPING PAD BOLTED TO PAD. MAINTAIN REQUIRED CLEARANCE FROM WALLS OR OBSTRUCTIONS FOR VENTILATION.**
- **GROUND TO METAL FRAME OF BUILDING, SLAB STEEL, OTHER MADE ELECTRODES, AND METAL UNDERGROUND WATER PIPE. PROVIDE A MINIMUM OF (2) 3/4" DIA, 10 FOOT LONG COPPER CLAD GROUND RODS LOCATED AT LEAST 6 FEET APART. ALL CONCEALED CONNECTIONS SHALL BE EXOTHERMICALLY WELDED. INTERIOR GROUND RODS SHALL STUB ABOVE FLOOR AT LOCATIONS NOT INTERFERING WITH FOOT TRAFFIC. LOCATE EXTERIOR GROUND ROD ASSEMBLY IN LANDSCAPE AREA OR PROVIDE WELL FOR ACCESS TO EACH GROUND ROD IF ASSEMBLY IS LOCATED IN HARD SURFACE AREAS, SUCH AS CONCRETE, ASPHALT, ETC. PROVIDE BOLTED PRESSURE CLAMP WITH AT LEAST TWO BOLTS ON RODS IN TEST WELLS. ALL GROUND ROD LOCATIONS SHALL BE ACCESSIBLE.**
- **VFD — VARIABLE FREQUENCY DRIVE. REFER TO SPECIFICATIONS, AND FLOOR PLANS FOR ADDITIONAL ELECTRICAL REQUIREMENTS. VFD SUPPLIED BY MECHANICAL CONTRACTOR (U.N.O.) AND INSTALLED BY ELECTRICAL CONTRACTOR. ALL CONNECTIONS TO VFD, DISCONNECT AND EQUIPMENT SERVED SHALL BE BY THE ELECTRICAL CONTRACTOR. CIRCUIT SHALL UTILIZE METAL CONDUIT TO MINIMIZE RFI NOISE.**
- **PANEL HOMERUN/CIRCUIT**
- **LP-1 — PANEL DESIGNATION/CIRCUIT NUMBER**

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

GENERAL NOTES

"GENERAL NOTES APPLY TO ALL ELECTRICAL SHEETS"

1. **DO NOT SCALE FROM THESE DRAWINGS.**
2. **ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).**
3. **ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES TO ASSURE PROPER CLEARANCES FOR EQUIPMENT AND TO KEEP THE JOB PROGRESSING.**
4. **DRAWINGS ARE BASED ON FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT ANY DISCREPANCIES TO THE ARCHITECT/ ENGINEER BEFORE DISTURBING EXISTING INSTALLATION.**
5. **EXISTING TO REMAIN ELECTRICAL CIRCUITRY DOWNSTREAM AND UPSTREAM OF DEMOLISHED DEVICES SHALL BE MAINTAINED. PROVIDE ALL ELECTRICAL COMPONENTS (BOXES, CONDUIT, WIRING, ETC.) AS REQUIRED.**
6. **ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO CUT, CAPTURE AND EXTEND OR RE-ROUTE EXISTING CONDUITS AND CONDUCTORS AS REQUIRED TO ACCOMMODATE NEW DUCTWORK TO BE INSTALLED. COORDINATE WITH MECHANICAL CONTRACTOR AS REQUIRED.**
7. **REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT NEEDING ELECTRICAL CONNECTIONS (MOTORS, FANS, PUMPS, ETC.). MAKE ALL CONNECTIONS AND PROVIDE APPROPRIATE WIRE, CONDUIT, AND OVERCURRENT PROTECTION FOR ALL EQUIPMENT. INSTALL ANY ELECTRICAL EQUIPMENT (STARTERS, RELAYS, VFD'S, ETC.) FURNISHED BY MECHANICAL CONTRACTOR (DIV 15). COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.**
8. **USE 10 AWG CU. CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET. USE 10 AWG CU. WHERE WIRE SIZE IS INCREASED IN SIZE FOR VOLTAGE DROP, E.G SHALL BE INCREASED PROPORTIONATELY. PER NEC 250.122 (B).**
9. **ALL CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTIVE CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL REFLECTIVE CEILING PLANS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.**
10. **WHERE DISCONNECTING MEANS IS NOT PROVIDED "WITHIN SIGHT" OF MECHANICAL EQUIPMENT, THE OVERCURRENT DEVICE SERVING SUCH EQUIPMENT SHALL HAVE APPROVED "LOCKED-OFF" PROVISION.**
11. **CONDUIT RUNS SHOWN ARE DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER NEC.**
12. **PROVIDE ALL H.I.D. AND FLUORESCENT LIGHT FIXTURES WITH INTEGRAL FUSING.**
13. **RECEPTACLES IN MECHANICAL ROOMS, ELECTRICAL ROOMS, STORAGE ROOMS, AND JANITOR CLOSETS SHALL BE G.F.C.I. TYPE MOUNTED AT 48" A.F.F.**

CONDUIT AND CONDUCTOR SCHEDULE

C.B.	POLES	WIRE SIZE (TYPE THW)	CONDUIT	PHASE
20A	1	2-#12, 1-#12 E.G.	3/4"	1 2W
	2	2-#12, 1-#12 E.G.		1 2W
	3	3-#12, 1-#12 E.G.		3 3W
	3	3-#12, 1-#12 N., 1-#12 E.G.		3 4W
25A	1	2-#10, 1-#10 E.G.	3/4"	1 2W
	2	2-#10, 1-#10 E.G.		1 2W
	3	3-#10, 1-#10 E.G.		3 3W
	3	3-#10, 1-#10 N., 1-#10 E.G.		3 4W
30A	1	2-#10, 1-#10 E.G.	3/4"	1 2W
	2	2-#10, 1-#10 E.G.		1 2W
	3	3-#10, 1-#10 E.G.		3 3W
	3	3-#10, 1-#10 N., 1-#10 E.G.		3 4W
35A	3	3-#8, 1-#10 E.G.	1"	3 3W
	3	3-#8, 1-#8 N., 1-#10 E.G.		3 4W
40A	2	2-#8, 1-#10 E.G.	1"	1 2W
	3	3-#8, 1-#10 E.G.		3 3W
	3	3-#8, 1-#8 N., 1-#10 E.G.		3 4W
45A	2	2-#8, 1-#10 E.G.	1"	1 2W
	3	3-#8, 1-#10 E.G.		3 3W
	3	3-#8, 1-#8 N., 1-#10 E.G.		3 4W
50A	2	2-#8, 1-#10 E.G.	1"	1 2W
	3	3-#8, 1-#10 E.G.		3 3W
	3	3-#8, 1-#8 N., 1-#10 E.G.		3 4W
60A	2	2-#6, 1-#10 E.G.	1"	1 2W
	3	3-#6, 1-#10 E.G.		3 3W
	3	3-#6, 1-#6 N., 1-#10 E.G.	1 1/4"	3 4W
70A	2	2-#4, 1-#8 E.G.	1"	1 2W
	3	3-#4, 1-#8 E.G.	1 1/4"	3 3W
	3	3-#4, 1-#4 N., 1-#8 E.G.		3 4W
80A	2	2-#4, 1-#8 E.G.	1"	1 2W
	3	3-#4, 1-#8 E.G.	1 1/4"	3 3W
	3	3-#4, 1-#4 N., 1-#8 E.G.		3 4W
90A	2	2-#3, 1-#8 E.G.	1 1/4"	1 2W
	3	3-#3, 1-#8 E.G.		3 3W
	3	3-#3, 1-#3 N., 1-#8 E.G.		3 4W
100A	2	2-#3, 1-#8 E.G.	1 1/4"	1 2W
	3	3-#3, 1-#8 E.G.		3 3W
	3	3-#3, 1-#3 N., 1-#8 E.G.		3 4W

NOTES:

1. **ALL CONDUCTORS SHALL BE COPPER**
2. **ALL CONDUIT SHALL HAVE EQUIPMENT GROUNDING CONDUCTOR INSTALLED.**
3. **CONDUIT BELOW GRADE OUTSIDE OF BUILDING SHALL BE 1" MINIMUM.**
4. **SIZING OF CONDUCTORS SHALL BE ALTERED FOR DERATING PER N.E.C. OR VOLTAGE DROP CONSIDERATIONS.**
5. **SEE RISER DIAGRAM FOR SIZING OF CIRCUITS GREATER THAN 100A.**
6. **USE #10 AWG, COPPER CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET. USE #10 AWG, COPPER CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS LONGER THAN 200 FEET. WHERE WIRE SIZE IS INCREASED IN SIZE FOR VOLTAGE DROP, EQUIPMENT GROUND SHALL BE INCREASED PROPORTIONATELY. PER NEC 250.122 (B).**
7. **WHERE MC CABLE IS ALLOWED BY THE AUTHORITY HAVING JURISDICTION, THE CONDUCTORS FOR MC CABLE SHALL BE THHN. JACKET SHALL BE THE MANUFACTURER'S STANDARD SIZE FOR CONDUCTORS UTILIZED.**

SPECIAL INFORMATIONAL NOTE:

THIS DRAWING PREPARED FOR TENANT IMPROVEMENTS TO AN EXISTING BUILDING OR BUILDING CONSTRUCTED BY OTHERS

IT IS UNDERSTOOD THAT ANY WARRANTY INFORMATION CONCERNING EQUIPMENT INSTALLED MUST BE FORWARDED TO THE OWNER AND THAT ANY AND ALL CONTRACTORS SHALL GUARANTEE THEIR WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF OWNERS ACCEPTANCE.

ENGINEER IS NOT RESPONSIBLE FOR MATERIALS, METHODS, INSTALLATION, AND CONSTRUCTION WHICH DEVIATE FROM CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.

DISCONNECT SCHEDULE

D/C #	SIZE	POLES	PHASE	NEMA	FUSE	VOLT.	SERVES	COMMENTS
D1	30A	2	1	1	NON-F	208	EWH-1	MOUNT ON WALL

NOTES:

1. **VERIFY FUSE SIZES FOR ACTUAL EQUIPMENT SUBMITTED.**
2. **FUSES SHALL BE DUAL ELEMENT, TIME DELAY, 100,000 AIC MININUM.**
3. **FINAL CONNECTIONS TO MECHANICAL EQUIPMENT FROM DISCONNECT SHALL BE FLEX. FLEX SHALL BE WATERTIGHT AT EXTERIOR OR WET LOCATIONS.**
4. **PROVIDE ADDITIONAL POLE TO DISCONNECT NEUTRAL WHERE REQUIRED.**

1 ELECTRICAL GENERAL NOTES, SCHEDULES, & LEGEND
NOT TO SCALE

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

ELECTRICAL GENERAL NOTES & LEGEND

Project No. 2013019.06
Drawn By NJH
Checked By PJF
Date 09.29.14

Revisions:

"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

CONSTRUCTION DOCUMENTS

E0.1

Originals printed @ 24" x 36" scale as required

Job Number: 4096.13.00

GLOBAL SANCHEZ, INC
BUILDING SYSTEMS ENGINEERING
info@global-sanchez.com CA#: 6237
Bradenton: 816 Manatee Ave. E, Suite 18
Bradenton, FL 34208
Phone: 941-758-2551
Tampa: 3825 Henderson Blvd., Suite 103
Tampa, FL 33629
Phone: 813-281-0001

1 ELECTRICAL LIGHTING PLAN PHASE II
1/8" = 1'-0"

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

ELECTRICAL LIGHTING PLAN PHASE II

Project No.	2013019.06
Drawn By	NJH
Checked By	PJF
Date	09.29.14

Revisions:

"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

CONSTRUCTION DOCUMENTS

E4.2

Job Number: 4096.13.00

GLOBAL SANCHEZ, INC
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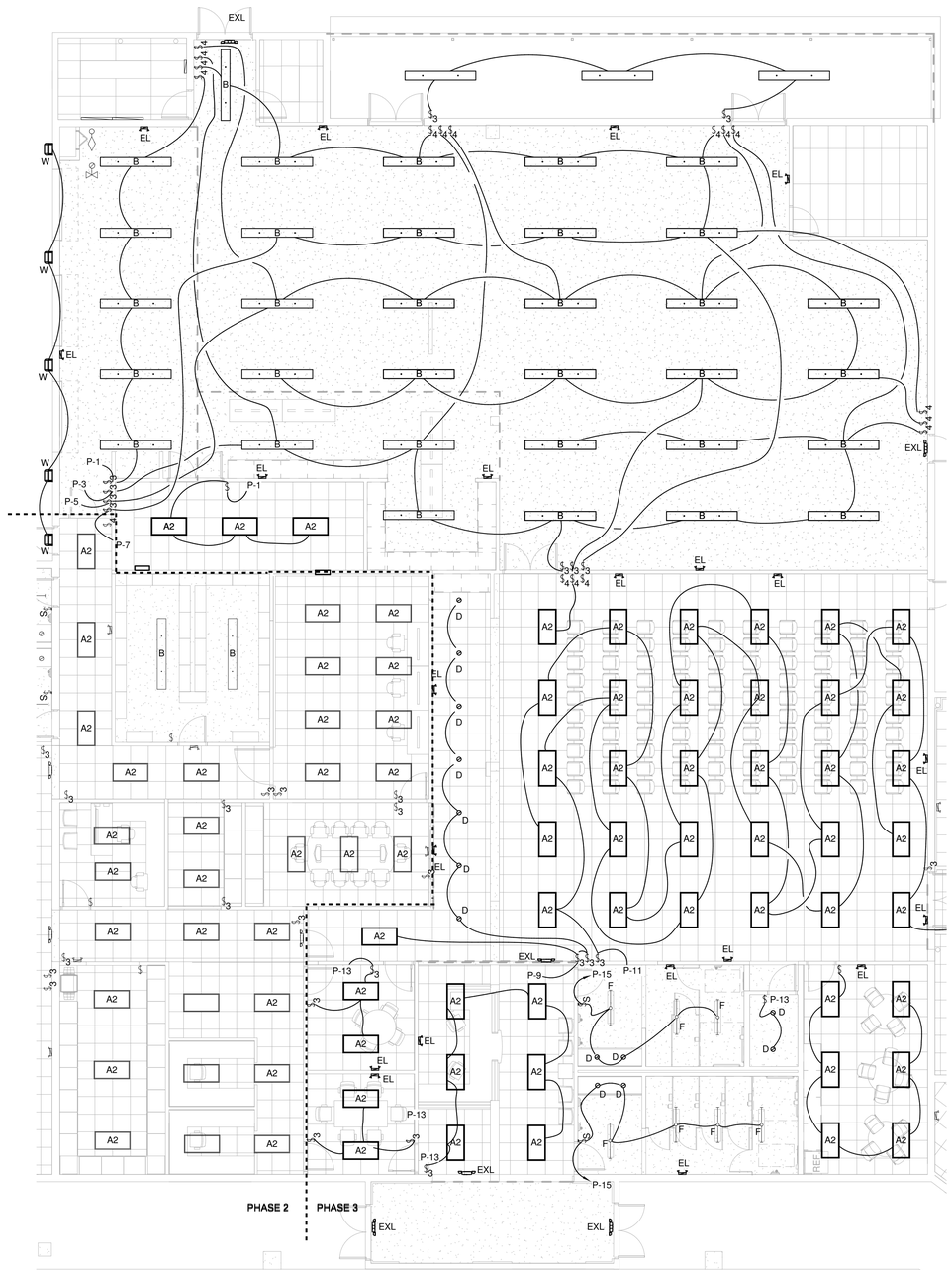

1 ELECTRICAL LIGHTING PLAN PHASE III
1/8" = 1'-0"

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

ELECTRICAL LIGHTING PLAN PHASE III

Project No.	2013019.06
Drawn By	NJH
Checked By	PJF
Date	09.29.14

Revisions:

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CONSTRUCTION DOCUMENTS

E4.3

Originals printed @ 24" x 36" scale as required

Job Number: 4096.13.00

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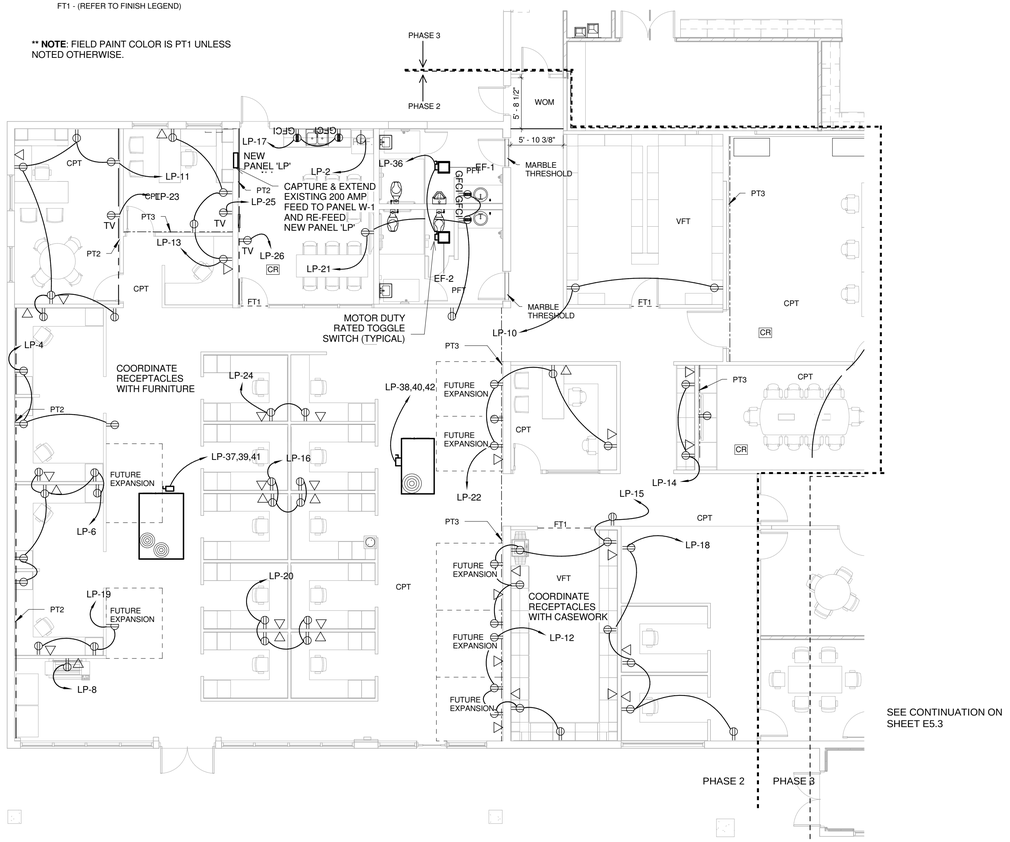
LEGEND:

CR CHAIR RAIL/ WALL PROTECTION
FT1 - (REFER TO FINISH LEGEND)

**** NOTE**: FIELD PAINT COLOR IS PT1 UNLESS NOTED OTHERWISE.



1 ELECTRICAL POWER PLAN PHASE II
1/8" = 1'-0"

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

ELECTRICAL POWER PLAN PHASE II

Project No.	2013019.06
Drawn By	NJH
Checked By	PJF
Date	09.29.14

Revisions:

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CONSTRUCTION DOCUMENTS

E5.2

Job Number: 4096.13.00

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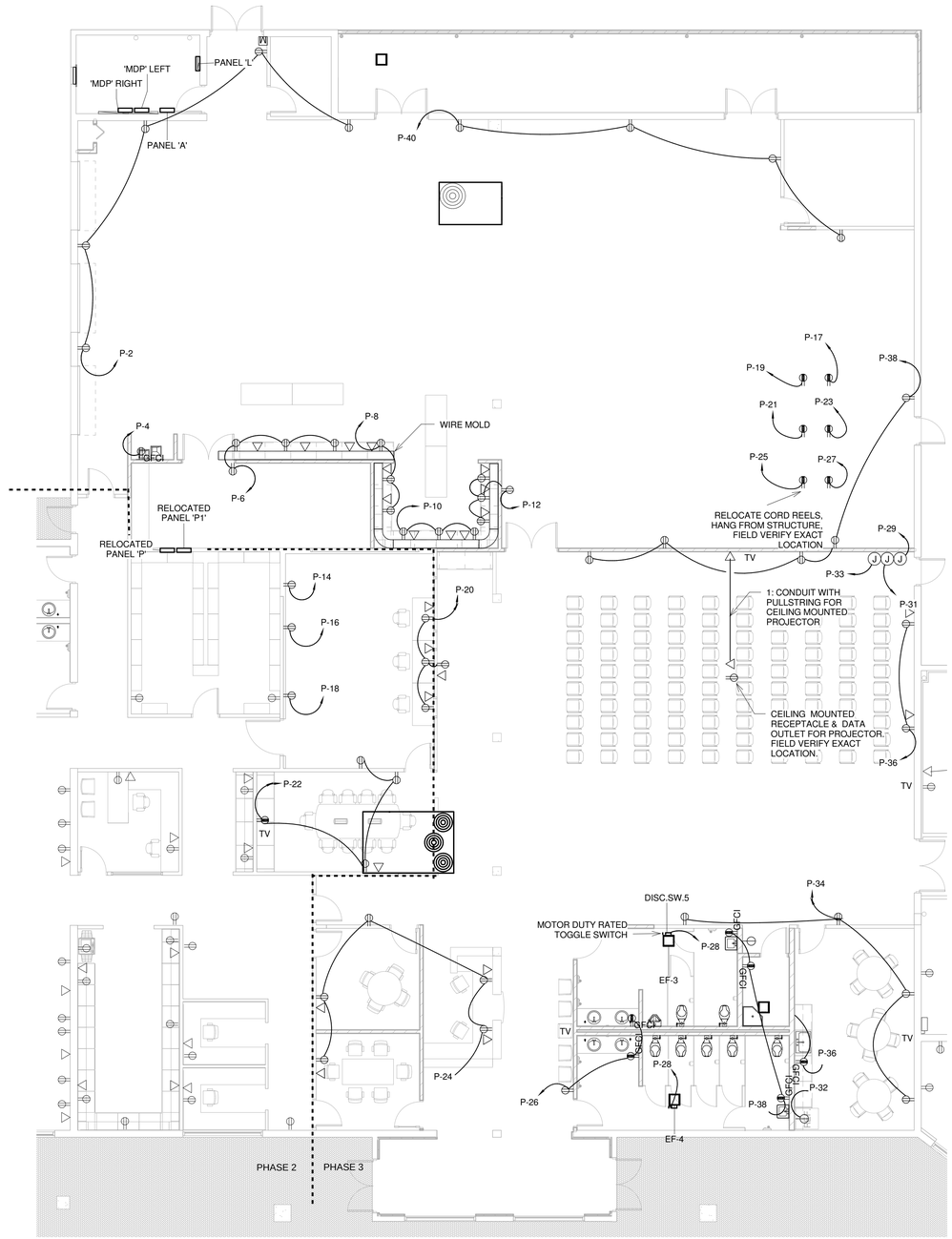

1 ELECTRICAL POWER PLAN PHASE III
1/8" = 1'-0"

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

ELECTRICAL POWER PLAN PHASE III

Project No.	2013019.06
Drawn By	NJH
Checked By	PJF
Date	09.29.14

Revisions:

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CONSTRUCTION DOCUMENTS

E5.3

Job Number: 4096.13.00

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EXISTING PANELBOARD: 'MDP' (LEFT SECTION)

VOLTAGE:	208/120V	3PH-4W	MAINS RATING:	1,200	AMPS	MAIN CB TRIP RATING:	
■ SURFACE	☐ MCB		COPPER BUS			INTERRUPTING RATING:	- AIC
☐ FLUSH	■ MLO					ENCLOSURE:	TYPE 1

SERVES	CB SIZE	LOAD VA	CKT		CKT	LOAD VA	CB SIZE	SERVES
			1		2			
EXISTING (PANEL)	175		3		4		20	EXISTING
			5		6			
			7		8			
EXISTING (PANEL 'P' & 'P1'	250		9		10		20	EXISTING
			11		12			
			13		14			
	400		15		16		100	EXISTING (PANEL 'A')
			17		18			
			19		20			
EMPTY			21		22			
			23		24			
			25		26			
EXISTING	800		27		28			
			29		30			
CONNECTED:			KVA	A	B	C	EST. DEMAND:	0.0 KVA

EXISTING PANELBOARD: 'MDP' (RIGHT SECTION)

VOLTAGE:	208/120V	3PH-4W	MAINS RATING:	800	AMPS	MAIN CB TRIP RATING:	
■ SURFACE	☐ MCB		COPPER BUS			INTERRUPTING RATING:	- AIC
☐ FLUSH	■ MLO					ENCLOSURE:	TYPE 1

SERVES	CB SIZE	LOAD VA	CKT		CKT	LOAD VA	CB SIZE	SERVES
			1		2			
EXISTING	200		3		4		20	EXISTING (CU COMPUTER ROOM)
			5		6			
			7		8			
EXISTING (OFF)	250		9		10		30	EXISTING (AHU CPU ROOM)
			11		12			
			13		14			
EXISTING (A/C ROOF)	400		15		16			
			17		18			
			19		20			
SPARE	200		21		22			
			23		24			
			25		26			
			27		28			
			29		30			
			0					
			0					
			0					
			0					
			0					
			0					
CONNECTED:			KVA	A	B	C	EST. DEMAND:	0.0 KVA

EXISTING PANELBOARD: 'L'

VOLTAGE:	208/120V	3PH-4W	MAINS RATING:	225	AMPS	MAIN CB TRIP RATING:	
■ SURFACE	☐ MCB		COPPER BUS			INTERRUPTING RATING:	- AIC
☐ FLUSH	■ MLO					ENCLOSURE:	TYPE 1

SERVES	CB SIZE	LOAD VA	CKT		CKT	LOAD VA	CB SIZE	SERVES
EXISTING	20		1		2		20	EXISTING
EXISTING	20		3		4		20	EXISTING
EXISTING	20		5		6		20	EXISTING
EXISTING	20		7		8		20	EXISTING
EXISTING	20		9		10		20	EXISTING
EXISTING	20		11		12		20	EXISTING
EXISTING	20		13		14		20	EXISTING
EXISTING	20		15		16		20	EXISTING
EXISTING	20		17		18		20	EXISTING
EXISTING	20		19		20		20	EXISTING
EXISTING	20		21		22		20	EXISTING
EXISTING	20		23		24		40	EXISTING (COMPUTER UPS PANEL)
EXISTING	20		25		26			
EXISTING	20		27		28		20	EXISTING
EXISTING	20		29		30			SPACE
SPACE			31		32			SPACE
SPACE			33		34			SPACE
SPACE			35		36			SPACE
SPACE			37		38			SPACE
SPACE			39		40			SPACE
SPACE			41		42			SPACE
CONNECTED:			KVA	A	B	C	EST. DEMAND:	0.0 KVA

EXISTING PANELBOARD: 'A'

VOLTAGE:	208/120V	3PH-4W	MAINS RATING:	100	AMPS	MAIN CB TRIP RATING:	
■ SURFACE	☐ MCB		COPPER BUS			INTERRUPTING RATING:	- AIC
☐ FLUSH	■ MLO					ENCLOSURE:	TYPE 1

SERVES	CB SIZE	LOAD VA	CKT		CKT	LOAD VA	CB SIZE	SERVES
			1		2		20	EXISTING
EXISTING	20		3		4		20	EXISTING
			5		6		20	EXISTING
EXISTING (OFF)	20		7		8		20	EXISTING
SPACE			9		10			SPACE
SPACE			11		12			SPACE
CONNECTED:			KVA	A	B	C	EST. DEMAND:	0.0 KVA

EXISTING PANELBOARD: 'COMPUTER ROOM'

VOLTAGE:	208/120V	3PH-4W	MAINS RATING:	40	AMPS	MAIN CB TRIP RATING:	
■ SURFACE	☐ MCB		COPPER BUS			INTERRUPTING RATING:	- AIC
☐ FLUSH	■ MLO					ENCLOSURE:	TYPE 1

SERVES	CB SIZE	LOAD VA	CKT		CKT	LOAD VA	CB SIZE	SERVES
EXISTING	20		1		2		20	EXISTING
EXISTING	20		3		4		20	EXISTING
EXISTING (OFF)	20		5		6		20	EXISTING
EXISTING	20		7		8		20	EXISTING (OFF)
EXISTING	20		9		10		20	EXISTING
EXISTING	20		11		12		20	EXISTING
CONNECTED:			KVA	A	B	C	EST. DEMAND:	0.0 KVA

RELOCATED PANELBOARD: 'P-1'

VOLTAGE:	208/120V	3PH-4W	MAINS RATING:	400	AMPS	MAIN CB TRIP RATING:	
■ SURFACE	☐ MCB		COPPER BUS			INTERRUPTING RATING:	- AIC
☐ FLUSH	■ MLO					ENCLOSURE:	TYPE 1

SERVES	CB SIZE	LOAD VA	CKT		CKT	LOAD VA	CB SIZE	SERVES
EXISTING	20		1		2		20	EXISTING
EXISTING	20		3		4		20	EXISTING
EXISTING	20		5		6		20	EXISTING
EXISTING	20		7		8		20	EXISTING
EXISTING	20		9		10		20	EXISTING
EXISTING	20		11		12		20	EXISTING
EXISTING	20		13		14		20	EXISTING
EXISTING	20		15		16		20	EXISTING
EXISTING	20		17		18		20	EXISTING
EXISTING	20		19		20		20	EXISTING
EXISTING	20		21		22		20	EXISTING
EXISTING	20		23		24		20	EXISTING
EXISTING	20		25		26		20	EXISTING
EXISTING	20		27		28		20	EXISTING
EXISTING	20		29		30		20	EXISTING
EXISTING	20		31		32		20	EXISTING
EXISTING	20		33		34		20	EXISTING
EXISTING	20		35		36		20	EXISTING
EXISTING	20		37		38		20	EXISTING
EXISTING	20		39		40		20	EXISTING
EXISTING	20		41		42		20	EXISTING
CONNECTED:			KVA	A	B	C	EST. DEMAND:	0.0 KVA

RELOCATED PANELBOARD : 'P'

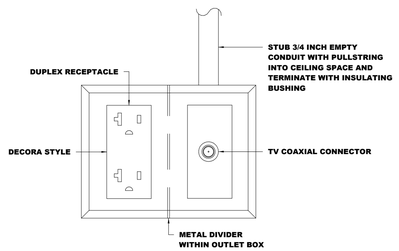
VOLTAGE:	208/120V	3PH-4W	MAINS RATING:	250	AMPS	MAIN CB TRIP RATING:	
☐ SURFACE	☐ MCB		COPPER BUS			INTERRUPTING RATING:	- AIC
■ FLUSH	■ MLO					ENCLOSURE:	TYPE 1

SERVES	CB SIZE	LOAD VA	CKT		CKT	LOAD VA	CB SIZE	SERVES
EXISTING	20		1		2		20	EXISTING
EXISTING	20		3		4		20	EXISTING
EXISTING	20		5		6		20	EXISTING
EXISTING	20		7		8		20	EXISTING
EXISTING	20		9		10		20	EXISTING
EXISTING	20		11		12		20	EXISTING
EXISTING	20		13		14		20	EXISTING
EXISTING	40		15		16		20	EXISTING
			17		18		20	EXISTING
EXISTING	20		19		20		20	EXISTING
EXISTING	20		21		22		20	EXISTING
EXISTING	20		23		24		20	EXISTING
EXISTING	20		25		26		20	EXISTING
EXISTING	20		27		28		20	EXISTING
EXISTING	20		29		30		20	EXISTING
EXISTING	20		31		32		20	EXISTING
EXISTING	20		33		34		20	EXISTING
EXISTING	20		35		36		40	EXISTING
EXISTING	20		37		38			
EXISTING	20		39		40		20	EXISTING
EXISTING	20		41		42		20	EXISTING
CONNECTED:			KVA	A	B	C	EST. DEMAND:	0.0 KVA

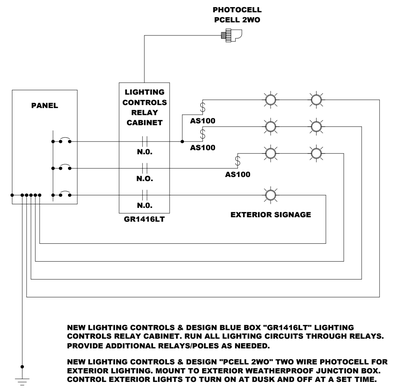
INTERIOR LIGHTING POWER ALLOWANCE

SPACE	NO.	ROOM TYPE	S.F.	ALLOWANCE		SPECIFIED	
				W/S.F.	WATTS	WATTS	+/-
TRAINING	1-100	CLASSROOM/LECTURE/TRAINING	663	1.4	928 W	576 W	-352 W
ELECTRICAL	1-101	ELECTRICAL/MECHANICAL	48	1.5	72 W	64 W	-8 W
JANITOR/STORAGE	1-102	ACTIVE STORAGE	153	0.8	122 W	128 W	6 W
TRAINING ROOM	1-103	CLASSROOM/LECTURE/TRAINING	2,084	1.4	2918 W	1920 W	-998 W
TRAINING ROOM	1-104	CLASSROOM/LECTURE/TRAINING	773	1.4	1082 W	640 W	-442 W
CORRIDOR	2-100A	CORRIDOR/TRANSITION	181	0.5	91 W	192 W	102 W
SUPPLIES AREA	2-100B	ACTIVE STORAGE	102	0.8	82 W	128 W	46 W
CORRIDOR	2-100C	CORRIDOR/TRANSITION	147	0.5	74 W	128 W	55 W
CORRIDOR	2-100D	CORRIDOR/TRANSITION	151	0.5	76 W	192 W	117 W
POLL WORKER COORDINATOR	2-101	OFFICE - OPEN PLAN	335	1.1	369 W	192 W	-177 W
WORK ROOM	2-102	OFFICE - OPEN PLN	351	1.1	386 W	192 W	-194 W
CONFERENCE	2-103	CONFERENCE/MEETING/MULTIPURPOSE	245	1.3	319 W	192 W	-127 W
DEPUTY OFFICE	2-104	OFFICE - ENCLOSED	139	1.1	153 W	212 W	59 W
OPEN WORK AREA	2-105	OFFICE - OPEN	2,572	1.1	2829 W	2240 W	-589 W
SUPERVISOR OF ELECTIONS	2-106	OFFICE - OPEN	231	1.1	254 W	192 W	-62 W
ASSISTANT SUPERVISOR OF ELECTIONS	2-107	OFFICE - OPEN	143	1.1	157 W	128 W	-29 W
ADMIN. ASSISTANT	2-108	OFFICE - OPEN	95	1.1	105 W	128 W	24 W
STAFF BREAK ROOM	2-109	LOUNGE/RECREATION	300	1.2	360 W	384 W	24 W
STAFF MEN	2-110	RESTROOMS	115	0.9	104 W	106 W	3 W
STAFF WOMEN	2-111	RESTROOMS	144	0.9	130 W	234 W	104 W
FILES/RECORDS	2-112	ACTIVE STORAGE	333	0.8	266 W	256 W	-10 W
TABULATION ROOM	2-113	OFFICE - ENCLOSED	447	1.1	492 W	512 W	20 W
ENTRY	3-100	LOBBY	253	1.3	329 W	84 W	-245 W
PUBLIC BREAK AREA	3-101	LOUNGE/RECREATION	403	1.2	484 W	468 W	-16 W
PUBLIC MEN	3-102	RESTROOMS	211	0.9	190 W	212 W	22 W
PUBLIC WOMEN	3-103	RESTROOMS	273	0.9	246 W	340 W	94 W
LOBBY/RECEPTION	3-104	LOBBY	388	1.3	504 W	384 W	-120 W
CONFERENCE ROOM	3-105	CONFERENCE/MEETING/MULTIPURPOSE	131	1.3	170 W	128 W	-42 W
CONFERENCE ROOM	3-106	CONFERENCE/MEETING/MULTIPURPOSE	131	1.3	170 W	128 W	-42 W
SECURED BALLOT STORAGE	3-108	ACTIVE STORAGE	280	0.8	224 W	192 W	-32 W
POLL WORKER SUPPLY AREA	3-109	CONFERENCE/MEETING/MULTIPURPOSE	482	1.3	627 W	384 W	-243 W
EQUIPMENT STORAGE	3-110	ACTIVE STORAGE	3,325	0.8	2660 W	3200 W	540 W
DATA	3-111	ELECTRICAL/MECHANICAL	191	1.5	287 W	128 W	-159 W
STORAGE	3-112	ACTIVE STORAGE	67	0.8	54 W	64 W	10 W
MAINTENANCE SHOP	3-113	ACTIVE STORAGE	133	0.8	106 W	128 W	22 W
STAGING AREA	3-114	CONFERENCE/MEETING/MULTIPURPOSE	634	1.3	824 W	640 W	-184 W
COVERED EXTERIOR STORAGE	3-115	ACTIVE STORAGE	647	0.8	518 W	0 W	-518 W
			S.F.	W/S.F.	ALLOWED	SPECIFIED	+/-
	TOTALS		17477		15,412 W	8716 W	-6,696 W

L.P.D. ALLOWANCE BASED ON TABLE 505.5.3 (FBC-ENERGY 2010)



TV POWER OUTLET DETAIL — 2
NO SCALE



NEW LIGHTING CONTROLS & DESIGN BLUE BOX "GR1416LT" LIGHTING CONTROLS RELAY CABINET. RUN ALL LIGHTING CIRCUITS THROUGH RELAYS. PROVIDE ADDITIONAL RELAYS/POLES AS NEEDED.

NEW LIGHTING CONTROLS & DESIGN "PCELL 2WO" TWO WIRE PHOTOCELL FOR EXTERIOR LIGHTING. MOUNT TO EXTERIOR WEATHERPROOF JUNCTION BOX. CONTROL EXTERIOR LIGHTS TO TURN ON AT DUSK AND OFF AT A SET TIME.

RELAY LIGHTING CABINET CONTROLS — 1
NO SCALE

1 ELECTRICAL PANEL SCHEDULES
NOT TO SCALE

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

ELECTRICAL DETAILS & PANEL SCHEDULES

Project No.	2013019.06
Drawn By	NJH
Checked By	PJF
Date	09.29.14

Revisions:

"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

Job Number: 4096.13.00

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CONSTRUCTION DOCUMENTS

E7.1

Originals printed @ 24" x 36" scale as required

EXISTING PANELBOARD: 'HP'

VOLTAGE:	208/120V	3PH-4W	MAINS RATING:	-	AMPS	MAIN CB TRIP RATING:	
■ SURFACE	□ MCB		COPPER BUS	INTERRUPTING RATING: - AIC			
□ FLUSH	■ MLO			ENCLOSURE: TYPE 1			

SERVES	CB SIZE	LOAD VA	CKT		CKT	LOAD VA	CB SIZE	SERVES
EXISTING	20		1		2			
EXISTING	20		3		4		50	EXISTING
EXISTING	20		5		6			
EXISTING	50		7		8		20	EXISTING
			9		10		20	EXISTING (OFF)
			11		12		20	EXISTING (OFF)
EXISTING	20		13		14		20	EXISTING
EXISTING	20		15		16		20	EXISTING
EXISTING	20		17		18		20	EXISTING
EXISTING	20		19		20			SPACE
EXISTING (OFF)	20		21		22			SPACE
EXISTING (OFF)	20		23		24			SPACE
SPACE			25		26			SPACE
SPACE			27		28			SPACE
SPACE			29		30			SPACE
SPACE			31		32			SPACE
SPACE			33		34			SPACE
SPACE			35		36			SPACE
SPACE			37		38			SPACE
SPACE			39		40			SPACE
SPACE			41		42			SPACE
CONNECTED:			KVA	A	B	C	EST. DEMAND:	0.0 KVA

EXISTING PANELBOARD: 'W-1' (TO BE REMOVED)

VOLTAGE:	208/120V	3PH-4W	MAINS RATING:	200	AMPS	MAIN CB TRIP RATING:	200 AMPS
□ SURFACE	■ MCB		COPPER BUS	INTERRUPTING RATING: - AIC			
■ FLUSH	□ MLO			ENCLOSURE: TYPE 1			

SERVES	CB SIZE	LOAD VA	CKT		CKT	LOAD VA	CB SIZE	SERVES
EXISTING	20		1		2		20	EXISTING
EXISTING	20		3		4		20	EXISTING
EXISTING	20		5		6		20	EXISTING
EXISTING	20		7		8		20	EXISTING
EXISTING	20		9		10		20	EXISTING
EXISTING	20		11		12		20	EXISTING
EXISTING	20		13		14		20	EXISTING
EXISTING	20		15		16		20	EXISTING
EXISTING	20		17		18		20	EXISTING
EXISTING	20		19		20			SPACE
EXISTING	20		21		22			SPACE
EXISTING	20		23		24			SPACE
EXISTING	20		25		26			SPACE
EXISTING	20		27		28			SPACE
EXISTING	20		29		30			SPACE
EXISTING	20		31		32			SPACE
EXISTING	20		33		34			SPACE
EXISTING	20		35		36			SPACE
EXISTING	20		37		38			
EXISTING	20		39		40		100	RTU-1*
EXISTING	20		41		42			
CONNECTED:			KVA	A	B	C	EST. DEMAND:	0.0 KVA

*CAPTURE AND EXTEND EXISTING CIRCUIT TO NEW PANEL "**LP**".

EXISTING PANELBOARD: 'W-2' (TO BE REMOVED)

VOLTAGE:	208/120V	3PH-4W	MAINS RATING:	100	AMPS	MAIN CB TRIP RATING:	100 AMPS
□ SURFACE	■ MCB		COPPER BUS	INTERRUPTING RATING: - AIC			
■ FLUSH	□ MLO			ENCLOSURE: TYPE 1			

SERVES	CB SIZE	LOAD VA	CKT		CKT	LOAD VA	CB SIZE	SERVES
EXISTING	20		1		2		20	EXISTING
EMPTY			3		4		20	EXISTING
EMPTY			5		6		20	EXISTING
EXISTING	20		7		8		20	EXISTING
EXISTING	20		9		10		20	EXISTING
EXISTING	20		11		12		20	EXISTING
EXISTING	20		13		14		20	EXISTING
EXISTING	20		15		16		20	EXISTING
EXISTING	20		17		18		20	EXISTING
EXISTING	20		19		20			EMPTY
EXISTING	20		21		22			EMPTY
EXISTING	20		23		24			EMPTY
SPACE			25		26			
SPACE			27		28		40	RTU-2 *
SPACE			29		30			
SPACE			31		32			SPACE
SPACE			33		34			SPACE
SPACE			35		36			SPACE
			37		38			SPACE
EXISTING (MAIN)	100		39		40			SPACE
			41		42			SPACE
CONNECTED:			KVA	A	B	C	EST. DEMAND:	0.0 KVA

*CAPTURE AND EXTEND EXISTING CIRCUIT TO NEW PANEL "**LP**".

NEW PANELBOARD: 'LP'

VOLTAGE:	208/120V	3PH-4W	MAINS RATING:	200	AMPS	MAIN CB TRIP RATING:	200 AMPS
■ SURFACE	□ MCB		COPPER BUS	INTERRUPTING RATING: - AIC			
□ FLUSH	□ MLO			ENCLOSURE: TYPE 1			

SERVES	CB SIZE	LOAD VA	CKT		CKT	LOAD VA	CB SIZE	SERVES
LIGHTS	20	896	1		2		20	REFRIGERATOR
LIGHTS	20	1152	3		4		20	RECEPTACLES
LIGHTS	20	1216	5		6		20	RECEPTACLES
LIGHTS	20	1088	7		8		20	RECEPTACLES
LIGHTS	20	1316	9		10		20	RECEPTACLES
RECEPTACLES	20	1080	11		12		20	RECEPTACLES
RECEPTACLES	20	720	13		14		20	RECEPTACLES
RECEPTACLES	20	1080	15		16		20	RECEPTACLES
RECEPTACLES	20	360	17		18		20	RECEPTACLES
RECEPTACLES	20	540	19		20		20	RECEPTACLES
RECEPTACLES	20	720	21		22		20	RECEPTACLES
TELEVISION	20	500	23		24		20	RECEPTACLES
TELEVISION	20	500	25		26	500	20	TELEVISION
SPARE	20		27		28		20	SPARE
SPACE			29		30			SPACE
SPACE			31		32			SPACE
SPACE			33		34			SPACE
SPACE			35		36		20	EF-1 / EF-2
		9000	37		38	3500		
RTU-1 *	100	9000	39		40	3500	40	RTU-2*
		9000	41		42	3500		
CONNECTED:			KVA	A	B	C	EST. DEMAND:	0.0 KVA

*NEW CIRCUIT BREAKER TO POWER EXISTING EQUIPMENT. CAPTURE AND EXTEND EXISTING CIRCUIT TO "**THIS** PANEL.

NEW PANELBOARD: 'LP'
ELECTRICAL SERVICE CALCULATION

LOAD	CONNECTED	DEMAND
RTU-1 **(LARGEST MOTOR)**	27,000	33,750
RTU-2	10,500	10,500
LIGHTING	**5,668**	8,320
RECEPTACLES 1st 10,000VA	**10,000**	10,000
RECEPTACLES REMAINDER @ 50%	1,340	670
EXHAUST FANS	160	160
REFRIGERATOR	1,200	1,200
TELEVISIONS	**1,500**	1,500
TOTAL	57,368	64,840
180 AMP DEMAND		
200A SERVICE @ 208V, 3-PHASE PROVIDED		

1 ELECTRICAL PANEL SCHEDULES
NOT TO SCALE

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

ELECTRICAL PANEL SCHEDULES

Project No. 2013019.06
Drawn By NJH
Checked By PJF
Date 09.29.14

Revisions:

"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

CONSTRUCTION DOCUMENTS

E7.2

Originals printed @ 24" x 36"
scale as required

Job Number: 4096.13.00

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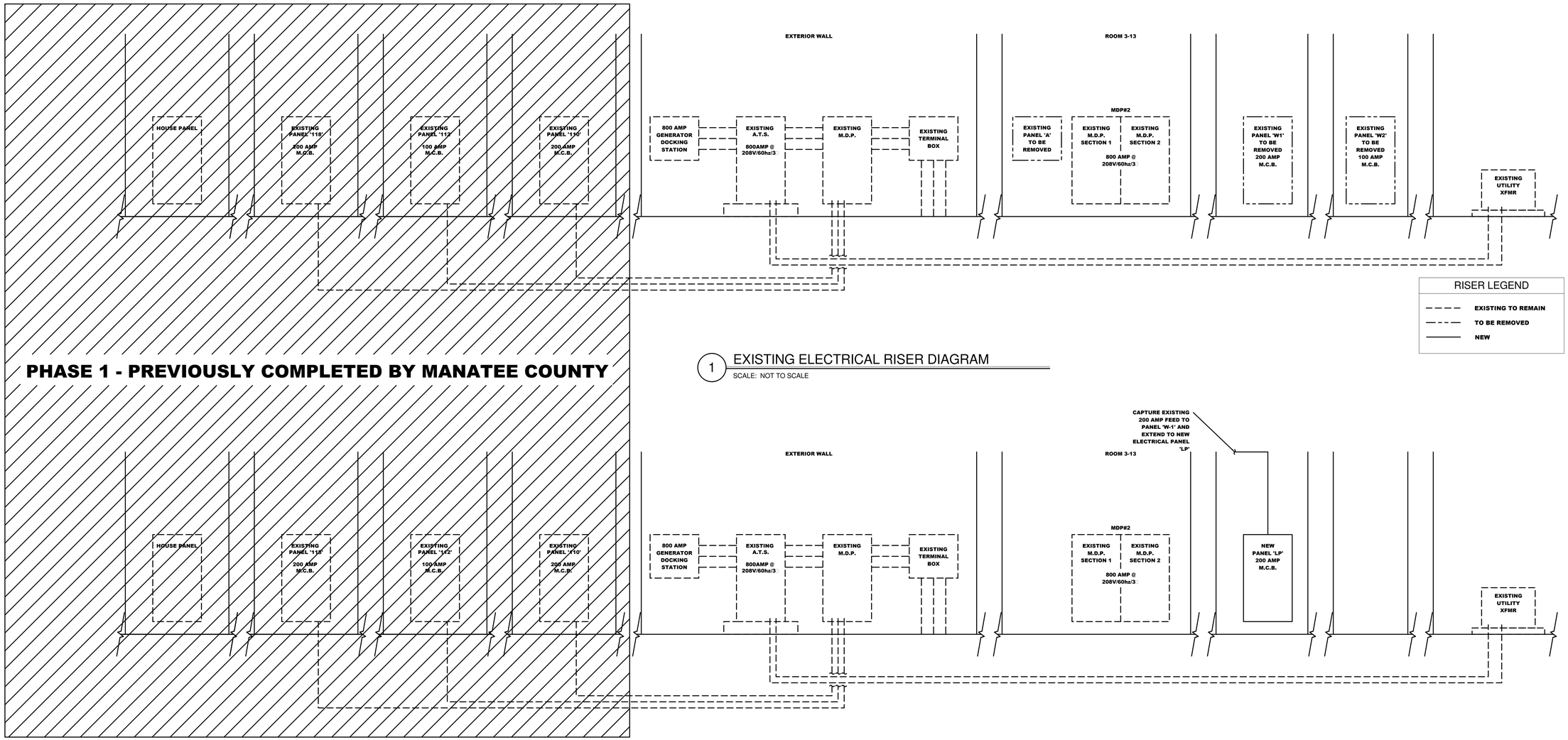

1 EXISTING ELECTRICAL RISER DIAGRAM
SCALE: NOT TO SCALE

2 PROPOSED ELECTRICAL RISER DIAGRAM
SCALE: NOT TO SCALE

1 ELECTRICAL RISER DIAGRAM
NOT TO SCALE

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

ELECTRICAL RISER DIAGRAM

Project No.	2013019.06
Drawn By	Author
Checked By	Checker
Date	09.29.14

Revisions:

"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

CONSTRUCTION DOCUMENTS

E8.1

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ELECTRICAL

PART 1 - GENERAL

0.01 GENERAL SCOPE

A. THIS PROJECT WILL REQUIRE POWER DISTRIBUTION, LIGHTING, AND LIGHTING CONTROLS SYSTEMS AS SHOWN ON THE PLANS AND INCLUDED IN THE SPECIFICATIONS.

B. THE SCOPE OF WORK SPECIFIED HEREIN CONSISTS OF PROVIDING (DEFINED AS FURNISH AND INSTALL) ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED TO COMPLETE THE ELECTRICAL AND RELATED WORK INDICATED ON THE DRAWINGS, AS SPECIFIED HEREIN AND SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT. ELECTRICAL WORK INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:
- PANELBOARDS
- CIRCUIT BREAKERS
- DISCONNECT SWITCHES
- GROUNDING
- RACEWAY FOR POWER DISTRIBUTION
- CONDUCTORS FOR POWER DISTRIBUTION
- WIRING DEVICES
- LIGHTING FIXTURES
- RACEWAY FOR COMMUNICATIONS WIRING (VOICE, DATA, CABLE TELEVISION)
- CONNECTION OF MOTORS, CONTROL DEVICES AND ELECTRICAL EQUIPMENT FURNISHED BY OTHERS
- TESTING
- FINAL ACCEPTANCE/WARRANTY
- RECORD DRAWINGS

C. ITEMS SPECIFIED HEREIN, SHOWN ON THE DRAWINGS, AND/OR REASONABLY INTERPRETED FROM THE DRAWINGS THAT ARE NECESSARY TO COMPLETE THE ELECTRICAL WORK SHALL BE PROVIDED BY THIS DIVISION, WHETHER ITEM IS SPECIFICALLY SHOWN OR NOT.

1.01 GENERAL DOCUMENTS

A. CONTRACTOR SHALL BECOME THOROUGHLY ACQUAINTED WITH THE PROJECT SITE (e.g. EXISTING CONDITIONS) AND THE ENTIRE CONSTRUCTION DOCUMENTS PACKAGE (e.g. ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL DRAWINGS AND SPECIFICATIONS) BEFORE BID SUBMISSION. WORK OF THE ELECTRICAL CONTRACTOR MUST BE COORDINATED WITH THE WORK OF ALL TRADES.

B. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO DESCRIBE THAT COMPLETE ELECTRICAL AND SPECIAL SYSTEMS ARE REQUIRED. HOWEVER, THE WORK SHALL BE COMPLETE EVEN THOUGH ITEMS MAY NOT BE SPECIFICALLY CALLED FOR OR SHOWN. INSTALLATIONS SHALL MEET ALL GOVERNING CODES, SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT/ENGINEER AND ALL AGENCIES HAVING JURISDICTION.

C. WORK NOT COVERED IN THIS SECTION. RECESSES, CHASES, AND OTHER PROVISIONS TO BE MADE IN THE STRUCTURE AS REQUIRED TO ACCOMMODATE ELECTRICAL ITEMS, SUCH AS CONDUIT, PANELS, SWITCHES, ETC, SHALL BE PROVIDED BY THE TRADES CONCERNED. THE ELECTRICIAN SHALL, HOWEVER, NOTIFY ALL SUCH TRADES OF HIS EXACT REQUIREMENTS AHEAD OF TIME AND SHALL PAY THE COSTS OF ANY CUTTING OR PATCHING CAUSED BY FAILURE TO DO SO. ALL SUCH REMEDIAL WORK SHALL BE DONE ONLY BY MECHANICS OF THE TRADES INVOLVED.

1.02 PERMITS, TAXES, FEES.

A. CONTRACTOR SHALL OBTAIN ALL GOVERNMENTAL PERMITS, PAY ALL SALES TAXES AND OTHER ASSOCIATED FEES INCLUDING COSTS FOR UTILITY CONNECTIONS, REQUIRED TO PERFORM THE INTENDED ELECTRICAL WORK. CONTRACTOR SHALL FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION. CONTRACTOR SHALL OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR ELECTRICAL WORK AND DELIVER SAME TO THE OWNER AND ARCHITECT BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK.

B. CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ALL LABOR, MATERIALS, SERVICES, APPARATUS, OR DRAWINGS NECESSARY TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS, WHETHER OR NOT SHOWN ON DRAWINGS AND/OR SPECIFIED.

C. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE FOLLOWING:
- NATIONAL ELECTRIC CODE
- APPLICABLE STATE AND LOCAL CODES
- NATIONAL BUREAU OF FIRE UNDERWRITERS
- REGULATIONS OF THE SERVING UTILITY COMPANIES

D. ALL MATERIAL AND EQUIPMENT PROVIDED FOR THE ELECTRICAL WORK SHALL BEAR THE APPROVAL LABEL, OR SHALL BE LISTED, BY UNDERWRITERS' LABORATORIES, INC.

1.03 MEASUREMENTS

A. SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCY BETWEEN ACTUAL MEASUREMENTS AND THOSE INDICATED ON THE DRAWINGS, WHICH PREVENTS FOLLOWING GOOD PRACTICE OR THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, HE SHALL NOTIFY THE ARCHITECT/ENGINEER THROUGH THE GENERAL CONTRACTOR, AND SHALL NOT PROCEED WITH HIS WORK UNTIL HE HAS RECEIVED INSTRUCTIONS FROM THE ARCHITECT/ENGINEER. ALL REQUESTS FOR INFORMATION (RFI) SHALL INCLUDE A PROPOSED SOLUTION.

B. PRIOR TO ROUGH-IN OF EQUIPMENT THE OWNER, ARCHITECT AND ENGINEER RESERVE THE RIGHT TO RELOCATE ANY PANELBOARD, DISCONNECT, STARTER, LIGHTING FIXTURE, WIRING DEVICE, COMMUNICATIONS OUTLET, ETC THREE (3) FEET IN ANY DIRECTION WITHOUT ANY ADDITIONAL CHARGE, FEE, OR CHANGE ORDER.

1.04 DRAWINGS

A. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF THE ELECTRICAL AND SPECIAL SYSTEMS WORK INCLUDED IN THE CONTRACT. THE ENTIRE CONSTRUCTION DOCUMENTS PACKAGE (DRAWINGS AND SPECIFICATIONS) SHALL BE EXAMINED FOR EXACT LOCATION OF FIXTURES, DEVICES AND EQUIPMENT. WHERE ITEMS ARE NOT LOCATED BY THE DRAWINGS OR SPECIFICATIONS OF OTHER CONSULTANTS THEN THE ITEMS SHALL BE LOCATED PER THE ENGINEERING DRAWINGS, HOWEVER, THE DRAWINGS ARE NOT TO BE SCALED.

B. CONTRACTOR SHALL FOLLOW THE ELECTRICAL DRAWINGS IN LAYING OUT WORK AND SHALL COORDINATE WITH THE DRAWINGS OF OTHER TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED. MAINTAIN MAXIMUM HEADROOM AND SPACE AT ALL LOCATIONS. WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH INSTALLATION. ALL REQUESTS FOR INFORMATION (RFI) SHALL INCLUDE A PROPOSED SOLUTION.

C. IF DIRECTED BY THE ARCHITECT/ENGINEER, THE CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LOCATIONS OF ELECTRICAL WORK AS NEEDED TO PREVENT CONFLICTS WITH WORK OF OTHER TRADES AND FOR PROPER INSTALLATION OF THE WORK.

1.05 SUBSTITUTION OF SPECIFIED EQUIPMENT

A. MATERIALS OR PRODUCTS SPECIFIED BY TRADE NAME, MANUFACTURER'S NAME OR CATALOG NUMBER SHALL BE PROVIDED AS SPECIFIED.

B. SUBSTITUTIONS ARE NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER VIA THE ARCHITECT TEN (1O) WORKING DAYS PRIOR TO BID DATE. APPROVALS OF "EQUIVALENT" MATERIALS OR PRODUCTS WILL BE MADE AVAILABLE TO ALL KNOWN BIDDERS AND ISSUED AS AN ADDENDUM (PRIOR TO BID) TO THE CONTRACT DOCUMENTS IF SUBSTITUTED MATERIALS OR PRODUCTS ARE APPROVED BY ARCHITECT/ENGINEER.

C. ANY CONTRACTOR PROPOSING AN 'EQUIVALENT' MATERIAL OR PRODUCT MUST SUBMIT, WITH THE REQUEST, COMPLETE CATALOG INFORMATION TO PERMIT EVALUATION OF THE PRODUCT. IN THE CASE OF LIGHTING FIXTURES, AN INDEPENDENT TESTING LABORATORY TEST REPORT (NOT THE MANUFACTURER'S) STATING FIXTURE EFFICIENCY AND PERFORMANCE, SHALL ACCOMPANY THE REQUEST.

D. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE CORRECTIONS TO ALL SITUATIONS CREATED BY THE SUBSTITUTION OF MATERIALS OR PRODUCTS. THE ACCEPTANCE OF SUBSTITUTED MATERIALS OR PRODUCTS, EITHER PRIOR TO BID OR THEREAFTER, DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY TO PROVIDE CORRECTIONS, AT THEIR EXPENSE, FOR ALL DISCREPANCIES AND CONFLICTS CREATED BY THE SUBSTITUTION OF MATERIALS OR PRODUCTS.

1.06 SHOP DRAWINGS

A. CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL SHOP DRAWINGS OF ALL MATERIALS OR PRODUCTS REQUIRED TO COMPLETE THE PROJECT AND NO MATERIALS OR PRODUCTS SHALL BE DELIVERED TO THE JOB SITE OR INSTALLED UNTIL THE CONTRACTOR HAS ENGINEER APPROVED SHOP DRAWINGS. SHOP DRAWINGS FOR MATERIALS OR PRODUCTS SHALL BE SUBMITTED AS ONE COMPLETE PACKAGE. CONTRACTOR SHALL FURNISH THE NUMBER OF COPIES REQUIRED BY THE GENERAL AND SPECIAL CONDITIONS OF THE CONTRACT, BUT IN NO CASE LESS THAN SIX (6) IDENTICAL COPIES. SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE ELECTRICAL AND GENERAL CONTRACTORS FOR COMPLIANCE WITH THE SPECIFIED MATERIALS AND PRODUCTS PRIOR TO SUBMISSION TO THE ARCHITECT/ENGINEER.

B. SAMPLES, DRAWINGS, SPECIFICATIONS, CUT SHEETS, ETC SUBMITTED FOR REVIEW SHALL BE PROPERLY LABELED AND SHALL INDICATE THE SPECIFIC ITEM FOR WHICH THE CONTRACTOR IS PROPOSING TO PROVIDE.

C. "NO EXCEPTION" RENDERED ON SHOP DRAWINGS SHALL NOT BE CONSIDERED AS A GUARANTEE THAT THE MATERIAL OR PRODUCTS COMPLY WITH THE BUILDING CONDITIONS OR MEASUREMENTS. WHERE SHOP DRAWINGS ARE REVIEWED, SAID "NO EXCEPTION" DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PROVIDING LABOR, MATERIAL OR PRODUCTS REQUIRED TO PERFORM THE WORK AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.

D. SHOP DRAWINGS SUBMITTALS ARE REQUIRED ON ELECTRICAL DISTRIBUTION EQUIPMENT, PANELBOARDS, TRANSFORMERS, CONDUIT, CONDUCTORS (WIRE), CIRCUIT BREAKERS, DISCONNECT SWITCHES, WIRING DEVICES, FLOOR BOXES, LIGHT FIXTURES, TIMECLOCKS, CONTACTORS AND SURGE PROTECTION DEVICES (SPD)

PART 2 - PRODUCTS

2.01 SERVICE ENTRANCE

A. SERVICE ENTRANCE SHALL BE EXISTING TO REMAIN.

2.02 PANELBOARDS

A. PROVIDE POWER DISTRIBUTION EQUIPMENT AS INDICATED ON THE ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES. PANELBOARDS SHALL BE OF DEAD FRONT CONSTRUCTION AND SHALL BE MANUFACTURED BY SQUARE "D", GENERAL ELECTRIC, CUTLER-HAMMER OR SIEMENS.

B. PANELBOARDS SHALL NOT BE LESS THAN 20" WIDE AND SHALL BE FABRICATED FROM CODE GAUGE STEEL WITH A POST FABRICATION APPLIED GRAY ENAMEL FINISH.

C. PANELBOARD AND INTERNAL COMPONENTS SHALL BE CONSTRUCTED AND U.L. LISTED TO WITHSTAND THE SYMMETRICAL SHORT CIRCUIT AMPERES INDICATED ON THE ELECTRICAL RISER DIAGRAM OR PANEL SCHEDULES.

D. WIRE GUTTER SPACE SHALL COMPLY WITH U.L. AND NEC STANDARDS FOR PANELBOARDS.

E. PANELBOARDS SHALL BE SURFACE OR FLUSH MOUNTED AS SHOWN ON PANEL SCHEDULES AND/OR FLOOR PLANS. PANEL SHALL BE EQUIPPED WITH RECESSED HINGES, FLUSH LOCK WITH CATCH AND SPRING LOADED DOOR PULL. ALL LOCKS SHALL BE KEYED A LIKE. TURN OVER ALL KEYS TO OWNER.

F. PROVIDE TYPED CIRCUIT IDENTIFICATION CARD INSIDE EACH PANEL. BASE DESCRIPTION ON LOAD SERVED.

G. PROVIDE LAMINATED, ENGRAVED PLASTIC NAMEPLATE WITH WHITE LETTERS STATING PANELBOARD NAME MOUNTED ON FRONT OF EACH PANEL. MOUNT NAMEPLATE WITH METAL FASTNERS. MINIMUM NAMEPLATE SIZE SHALL BE 3" WIDE BY 1-1/2" HIGH WITH 1/2" HIGH ENGRAVED LETTERS. PROVIDE BLACK NAMEPLATE COLOR FOR NORMAL AND RED NAMEPLATE COLOR FOR EMERGENCY PANELBOARDS OR COLOR AS REQUIRED TO MEET OWNERS STANDARD NAMEPLATE COLORS.

2.03 CIRCUIT BREAKERS:

A. CIRCUIT BREAKERS SHALL BE QUICK-MAKE, QUICK-BREAK, THERMAL MAGNETIC MOLDED CASE OF FRAME SIZE, NUMBER OF POLES AND TRIP RATINGS AS SHOWN ON THE ELECTRICAL RISER DIAGRAM AND/OR PANEL SCHEDULES. MULTI-POLE BREAKERS SHALL HAVE A SINGLE HANDLE TO TRIP ALL POLES AT ONCE. CIRCUIT BREAKERS SHALL BE FROM THE SAME MANUFACTURER AS THE POWER DISTRIBUTION EQUIPMENT. PROVIDE CIRCUIT BREAKERS WITH GROUND FAULT AND ARC FAULT PROTECTION WHERE REQUIRED.

2.04 DISCONNECT SWITCHES

A. DISCONNECT SWITCHES SHALL BE U.L. LISTED AND FROM SAME MANUFACTURER AS POWER DISTRIBUTION EQUIPMENT. SWITCH BLADES SHALL BE FULLY VISIBLE IN THE "OFF" POSITION WITH THE DOOR OPEN. ALL CURRENT CARRYING PARTS SHALL BE PLATED TO RESIST CORROSION.

B. SWITCHES SHALL BE QUICK-MAKE, QUICK-BREAK SUCH THAT, DURING NORMAL OPERATION, THE CONTACTS SHALL NOT BE CAPABLE OF BEING RESTRAINED BY THE OPERATING HANDLE AFTER THE CLOSING OR OPENING ACTION OF THE CONTACTS HAS STARTED. THE HANDLE AND MECHANISM SHALL BE AN INTEGRAL PART OF THE BOX, NOT THE COVER, WITH POSITIVE PADLOCKING PROVISIONS IN THE "OFF" POSITION.

C. PROVIDE HEAVY-DUTY, NEMA-1 ENCLOSURE UNLESS NEMA-3R (RAIN PROOF) IS REQUIRED BY THE SWITCH LOCATION. ENCLOSURES SHALL BE PROVIDED WITH A POST FABRICATION APPLIED GRAY ENAMEL FINISH.

D. FUSIBLE SWITCHES SHALL BE CAPABLE OF FIELD CONVERSION FROM STANDARD CLASS-H FUSE SPACING TO CLASS-J FUSE SPACING WITHOUT AFFECTING THE U.L. LISTING. THE SWITCH MUST ALSO ACCEPT CLASS-R FUSES AND HAVE A FIELD INSTALLABLE U.L. LISTED REJECTION FEATURE TO REJECT ALL FUSES EXCEPT CLASS-R. THE U.L. LISTED SHORT CIRCUIT RATING, WHEN EQUIPPED WITH CLASS-J OR CLASS-R FUSES, SHALL BE 200,000 AMPERES RMS SYMMETRICAL.

2.05 GROUNDING AND BONDING

A. PROVIDE A SINGLE, COMPLETE GROUNDING NETWORK FOR THE ENTIRE ELECTRICAL AND SPECIAL SYSTEMS WHICH COMPLIES WITH NEC REQUIREMENTS.

B. SERVICE NEUTRAL AND EQUIPMENT GROUND SHALL BE CONNECTED AT ONE POINT INSIDE THE MAIN DISTRIBUTION PANEL WITH ONE CONTINUOUS CONDUCTOR FROM THIS LOCATION TO THREE 10 FOOT LONG DRIVEN GROUND RODS LOCATED IN A TRIANGULAR PATTERN, TO BUILDING STEEL AND TO METAL WATER PIPE.

C. PROVIDE BONDING CONNECTION WITH GROUND BUSHING TO CONDUIT FROM DISTRIBUTION PANEL TO THE BREAKERS AND PANELS SERVED.

D. CONNECTIONS TO GROUND RODS SHALL BE MADE WITH EXOTHERMIC WELDS. PROVIDE TEST WELL OVER EACH GROUND ROD.

2.06 CONDUIT FOR POWER DISTRIBUTION WIRING

A. WIRING FOR POWER DISTRIBUTION SHALL BE INSTALLED IN RIGID METALLIC (GALVANIZED STEEL) CONDUIT (RMC), INTERMEDIATE METAL CONDUIT (IMC), ELECTRICAL METALLIC TUBING (EMT), FLEXIBLE METAL CONDUIT OR SCHEDULE 40/80 PVC CONDUIT. PROVIDE THE CONDUIT TYPE INDICATED IN THIS SPECIFICATION WHERE CONDUIT TYPE IS NOT NOTED ON THE DRAWINGS.

B. RIGID GALVANIZED STEEL (RGS) CONDUIT WITH THREADED FITTINGS SHALL BE PROVIDED ABOVE GROUND AT EXPOSED INTERIOR AND EXTERIOR LOCATIONS WHERE CONDUIT MAY BE SUBJECTED TO PHYSICAL DAMAGE FROM VEHICLES, MAINTENANCE EQUIPMENT, ETC. PROVIDE LARGE RADIUS SWEEP ELBOWS FOR RGS CONDUIT.

C. IMC CONDUIT WITH THREADED FITTINGS SHALL BE PROVIDED IN ABOVE GROUND, EXPOSED INTERIOR AND EXTERIOR LOCATIONS WHERE CONDUIT WILL NOT BE SUBJECTED TO PHYSICAL DAMAGE, BUT WILL BE EXPOSED TO RAIN WATER, HAZARDOUS CONDITIONS, ETC. THREADLESS FITTINGS FOR IMC IS NOT ACCEPTABLE.

D. EMT CONDUIT WITH SET SCREW FITTINGS SHALL BE PROVIDED IN ABOVE GROUND INTERIOR LOCATIONS WHERE CONDUIT WILL NOT BE SUBJECTED TO PHYSICAL DAMAGE AND WILL REMAIN COMPLETELY DRY DURING ALL WEATHER CONDITIONS.

E. EMT CONDUIT SHALL NOT BE USED IN LOCATIONS WHERE CONDUIT COULD BE EXPOSED TO DIRECT/INDIRECT RAIN/WATER/LIQUIDS, WIND DRIVEN RAIN, HOSE DOWN AREAS, OPEN AIR AREAS WITHOUT AIR CONDITIONING (UNLESS CONDUIT WILL REMAIN COMPLETELY DRY DURING ALL WEATHER CONDITIONS) AND AREAS WHERE RAIN/WATER/LIQUIDS MIGHT DRIP OR RUN INTO CONDUIT, BACKBOXES OR DEVICES.

F. SCHEDULE 80 PVC CONDUIT SHALL BE USED FOR UNDERGROUND SERVICE ENTRANCE FEEDERS AND ALL CONDUIT BELOW ROADWAYS U.N.O. ON THE RISER DIAGRAMS AND/OR FLOOR PLANS. PROVIDE LARGE RADIUS RIGID GALVANIZED STEEL ELBOWS FOR SCHEDULE 80 PVC CONDUIT. COAT RGS ELBOWS WITH BLACK MASTIC.

G. SCHEDULE 40 PVC CONDUIT SHALL BE USED FOR ALL UNDERGROUND FEEDERS AND WIRING EXCEPT FOR SERVICE ENTRANCE FEEDERS AND UNDER ROADWAYS. PROVIDE LARGE RADIUS RIGID GALVANIZED STEEL ELBOWS FOR SCHEDULE 40 PVC CONDUIT WHERE OVERALL CONDUIT RUN IS GREATER THAN 100 FEET. COAT RGS ELBOWS WITH BLACK MASTIC.

H. PVC CONDUIT SHALL NOT BE USED MORE THAN SIX INCHES ABOVE FINISHED GRADE IN EITHER INTERIOR OR EXTERIOR LOCATIONS. PVC CONDUIT SHALL TRANSITION TO METAL CONDUIT NO MORE THAN SIX INCHES ABOVE GRADE.

I. ALL PVC CONNECTIONS SHALL BE WATERTIGHT.

J. FLEXIBLE METAL CONDUIT SHALL BE USED TO CONNECT LIGHTING FIXTURES AND EQUIPMENT SUBJECT TO VIBRATION, INCLUDING A/C EQUIPMENT, MOTORS, TRANSFORMERS, ETC. PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AND FITTINGS FOR EXTERIOR APPLICATIONS.

K. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, OR CEILINGS IN FINISHED AREAS. CONDUIT SHALL NOT BE EXPOSED IN FINISHED AREAS EXCEPT WHEN ABSOLUTELY NECESSARY. CONDUIT SHALL BE STRAIGHT AND PARALLEL TO BUILDING LINES.

L. DURING CONSTRUCTION CONDUIT SHALL BE PROTECTED AGAINST DAMAGE AND ENTRANCE OF WATER, DIRT OR FOREIGN MATERIAL WITH WATERTIGHT CAPS. FIRE RATED ASSEMBLIES SHALL BE PROVIDED WHERE CONDUIT PASSES THROUGH FIRE RATED CONSTRUCTION. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FIRE RATED CONSTRUCTION. REFER TO THE FIRE STOP PENETRATION DETAILS ON THE ELECTRICAL DRAWINGS.

M. INSULATING BUSHINGS WITH DOUBLE LOCK-NUTS SHALL BE USED WHEREVER A NEW CONDUIT 1-1/4" DIA OR LARGER ENTERS A BOX, PANEL, DISCONNECT OR ELECTRICAL EQUIPMENT.

N. CONDUIT SIZES SHOWN ON THE DRAWINGS AND SCHEDULES ARE THE MINIMUM SIZES REQUIRED. LARGER SIZE CONDUIT TO FACILITATE WIRE PULLS, ETC, IS PERMITTED.

2.07 CONDUCTORS

A. PROVIDE 75 DEGREE CELSIUS (167 DEGREE FAHRENHEIT) TYPE THHW, THW, THWN, OR XHHW INSULATED COPPER CONDUCTORS RATED AT 600V FOR POWER DISTRIBUTION WIRING. CONDUIT WIRE FILL SHOWN ON THE DRAWINGS AND FEEDER SCHEDULES ARE BASED ON TYPE THW WIRE UNLESS NOTED OTHERWISE.

B. CONDUCTORS UP TO AND INCLUDING NO. 10 AWG SHALL BE SOLID AND CONDUCTORS NO. 8 AWG AND LARGER SHALL BE STRANDED. MINIMUM CONDUCTOR SIZE SHALL BE NO.12 AWG. CONDUCTORS SHALL BE CONTINUOUS BETWEEN EQUIPMENT AND DEVICES. SPLICES ARE TO BE MADE ONLY IN ACCESSIBLE JUNCTION OR OUTLET BOXES AND SHOULD BE KEPT TO A MINIMUM. SPLICES ON NO.12 AND NO.10 WIRE SHALL BE MADE WITH PRESSURE CONNECTORS CAPABLE OF CARRYING FULL WIRE CAPACITY. SPLICES ON NO.8 WIRE AND LARGER SHALL BE MADE WITH SOLDERLESS LUGS WRAPPED WITH BOTH RUBBER AND PLASTIC ELECTRICAL TAPE. CONNECTIONS TO FIXED EQUIPMENT TERMINALS ARE TO BE MADE WITH SOLDERLESS LUGS.

C. ALL NEW CONDUIT USED FOR POWER DISTRIBUTION SHALL CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR. CONDUIT RACEWAY SHALL NOT BE USED IN PLACE OF A GROUNDING CONDUCTOR.

D. MC TYPE CABLE MAY BE UTILIZED IF ALLOWED BY THE AUTHORITY HAVING JURISDICTION.

2.08 WIRING DEVICES

A. THE EXTENT OF WIRING DEVICE WORK IS INDICATED ON THE DRAWINGS. WIRING DEVICES ARE DEFINED AS SINGLE DISCRETE UNITS OF ELECTRICAL DISTRIBUTION SYSTEMS THAT ARE INTENDED TO CARRY BUT NOT UTILIZE ELECTRIC ENERGY. TYPES OF WIRING DEVICES IN THIS SECTION INCLUDE:
- RECEPTACLES
- GROUND FAULT CIRCUIT INTERRUPTERS
- ARC FAULT CIRCUIT INTERRUPTERS
- LIGHT SWITCHES

B. PROVIDE WHITE COLORED WIRING DEVICES AND MATCHING THERMOPLASTIC COVERPLATES UNLESS NOTED OTHERWISE. FINAL COLOR SELECTION SHALL BE COORDINATED WITH OWNER/ARCHITECT PRIOR TO BID.

C. QUALITY ASSURANCE

1. NEC COMPLIANCE: COMPLY WITH NEC AS APPLICABLE TO INSTALLATION AND WIRING OF ELECTRICAL WIRING DEVICES.
2. UL COMPLIANCE: COMPLY WITH APPLICABLE REQUIREMENTS OF U.L. 20, 486A, 498 AND 943 PERTAINING TO INSTALLATION OF WIRING DEVICES. PROVIDE WIRING DEVICES WHICH ARE U.L. LISTED AND LABELED.
3. IEEE COMPLIANCE: COMPLY WITH APPLICABLE REQUIREMENTS OF IEEE STANDARD 241, "RECOMMENDED PRACTICE FOR ELECTRIC POWER SYSTEMS IN COMMERCIAL BUILDINGS", PERTAINING TO ELECTRICAL WIRING SYSTEMS.
4. NEMA COMPLIANCE: COMPLY WITH APPLICABLE PORTIONS OF NEMA STANDARDS PUBLICATION NUMBER WD-1, "GENERAL PURPOSE WIRING DEVICES", WD-2, "SEMICONDUCTOR DIMMERS FOR INCANDESCENT LAMPS", AND WD-5, "SPECIFIC PURPOSE WIRING DEVICES".

D. RECEPTACLES

1. SIMPLEX: PROVIDE SPECIFICATION GRADE 20-AMPERE, 125 VOLT, HEAVY-DUTY, 2-POLE, 3-WIRE, RECEPTACLE WITH GREEN HEXAGONAL EQUIPMENT GROUND SCREW AND METAL PLASTER EARS DESIGNED FOR SIDE AND BACK WIRING WITH SPRING LOADED, SCREW ACTIVATED PRESSURE PLATE IN NEMA 5-20R CONFIGURATION UNLESS NOTED OTHERWISE. COORDINATE ALL "SPECIAL" RECEPTACLES WITH THE EQUIPMENT SERVED PRIOR TO ROUGH-IN. PROVIDE RECEPTACLE RATING AND CONFIGURATION TO MATCH EQUIPMENT SERVED.
2. DUPLEX: PROVIDE SPECIFICATION GRADE 20-AMPERE, 125 VOLT, HEAVY-DUTY, 2-POLE, 3-WIRE, RECEPTACLE WITH GREEN HEXAGONAL EQUIPMENT GROUND SCREW AND METAL PLASTER EARS DESIGNED FOR SIDE AND BACK WIRING WITH SPRING LOADED, SCREW ACTIVATED PRESSURE PLATE IN NEMA 5-20R CONFIGURATION.

E. GROUND-FAULT CIRCUIT INTERRUPTERS

1. PROVIDE SPECIFICATION GRADE "FEED-THRU" TYPE GROUND-FAULT CIRCUIT INTERRUPTERS, WITH HEAVY-DUTY DUPLEX RECEPTACLES, CAPABLE OF PROTECTING CONNECTED DOWNSTREAM RECEPTACLES ON SINGLE CIRCUIT, AND OF BEING INSTALLED IN A 2-3/4" DEEP OUTLET BOX WITHOUT ADAPTER, GROUNDING TYPE U.L. RATED CLASS A, GROUP 1, RATED 20-AMPERES, 120-VOLTS, 60 HZ, WITH SOLID-STATE GROUND-FAULT SENSING AND SIGNALING, WITH 5 MILLIAMPERES GROUND-FAULT TRIP LEVEL, EQUIP WITH NEMA 5-20R CONFIGURATION.

F. LIGHT SWITCHES

1. SINGLE AND TWO POLE: PROVIDE HARD USE SPECIFICATION GRADE RECESS MOUNTED SINGLE AND TWO-POLE QUIET TOGGLE SWITCHES, 20-AMPERE, 120/277 VOLTS AC. PROVIDE WITH MOUNTING YOKE INSULATED FROM MECHANISM, PLASTER EARS, SWITCH HANDLE, AND SIDE-WIRED SCREW TERMINALS.
2. THREE AND FOUR WAY: PROVIDE HARD USE SPECIFICATION GRADE RECESS MOUNTED 3 AND 4-WAY AC QUIET SWITCHES, 20-AMPERES, 120/277 VOLTS PROVIDE WITH MOUNTING YOKE INSULATED FROM MECHANISM, PLASTER EARS, SWITCH HANDLE, SIDE-WIRED SCREW TERMINALS, WITH BREAK-OFF TAB FEATURES, WHICH ALLOWS WIRING WITH SEPARATE OR COMMON FEED.

2.09 LIGHTING FIXTURES

A. CONTRACTOR SHALL PROVIDE, WIRE AND LAMP ALL LIGHTING FIXTURES SHOWN ON SITE PLAN, FLOOR PLANS AND LIGHTING FIXTURE SCHEDULE. AT SUBSTANTIAL COMPLETION, CONTRACTOR SHALL CLEAN DUST, DEBRIS, FINGERPRINTS, ETC FROM ALL FIXTURE LENSES, LOUVERS, AND REFLECTORS AND SHALL REPLACE ALL LAMPS, BALLASTS, ETC THAT ARE NOT WORKING.

B. CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS (SECTIONS, ELEVATIONS, DETAILS, ETC.) FOR LIGHTING FIXTURES WHICH MAY BE SHOWN AND SHALL NOTIFY THE ARCHITECT/ ENGINEER PRIOR TO BID IF FIXTURES APPEAR ON THE ARCHITECTURAL DRAWINGS THAT DO NOT APPEAR ON THE ELECTRICAL DRAWINGS.

2.10 LIGHTING CONTROLS

A. INTERIOR. PROVIDE A COMPLETE, FLORIDA BUILDING CODE COMPLIANT, AUTOMATIC LIGHTING CONTROLS SYSTEM TO SHUT OFF INTERIOR LIGHTING IN BUILDINGS LARGER THAN 5,000 SQUARE FEET. THE SYSTEM SHALL FUNCTION ON EITHER OF THE FOLLOWING:

1. A SCHEDULED BASIS THAT TURNS LIGHTING OFF AT A PROGRAMMED TIME OF DAY. PROVIDE INDICATION 5 MINUTES PRIOR TO TURNING LIGHTING OFF TO ALLOW OCCUPANTS TO MANUALLY OVERRIDE SCHEDULE.
2. AN OCCUPANCY SENSOR THAT SHALL TURN LIGHTING OFF WITHIN 30 MINUTES OF AN OCCUPANT VACATING THE SPACE.
3. A SIGNAL FROM ANOTHER CONTROL OR ALARM SYSTEM THAT INDICATES THE AREA IS UNOCCOPIED.

B. EXTERIOR. PROVIDE TIMECLOCK(S) FOR EXTERIOR LIGHTING CONTROL. TIME CLOCKS SHALL BE 7-DAY, 24-HOUR MECHANICAL OR ELECTRONIC WITH CARRYOVER PROVISIONS FOR A MINIMUM OF 16 HOURS. PROVIDE PHOTOCELL FOR AUTOMATIC FIXTURE SWITCHING WHERE INDICATED ON SITE AND FLOOR PLANS. PHOTOCELL SHALL BE RATED FOR REQUIRED LOAD AND VOLTAGE WITH BUILT-IN DELAY FOR TRANSIENT LIGHT FLASHES AND LIGHT LEVEL ADJUSTMENT.

2.11 EQUIPMENT FURNISHED BY OTHERS

A. CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE TO EQUIPMENT PROVIDED BY OTHERS INCLUDING, BUT NOT LIMITED TO, CIRCUIT BREAKERS, CONDUIT, WIRE, DISCONNECT SWITCHES, ETC AS REQUIRED BY OTHERS.

2.12 MOTOR CONTROLLERS

A. PROVIDE FULL-VOLTAGE, NON-REVERSING, ACROSS-THE-LINE, MAGNETIC MOTOR CONTROLLER(S). COORDINATE THE FEATURES OF EACH MOTOR CONTROLLER WITH THE RATINGS AND CHARACTERISTICS OF THE SUPPLY CIRCUIT, THE MOTOR, THE REQUIRED CONTROL SEQUENCE, THE DUTY CYCLE OF THE MOTOR, DRIVE, AND LOAD, AND THE PILOT DEVICE, AND CONTROL CIRCUITING AFFECTING CONTROLLER FUNCTIONS. PROVIDE CONTROLLERS THAT ARE HORSEPOWER RATED TO SUIT THE MOTOR CONTROLLED.

B. CONTACTS SHALL OPEN EACH UNGROUNDED CONNECTION TO THE MOTOR.

C. OVERLOAD RELAYS: AMBIENT-COMPENSATED TYPE WITH INVERSE-TIME-CURRENT CHARACTERISTIC. PROVIDE WITH HEATERS OR SENSORS IN EACH PHASE MATCHED TO NAMEPLATE FULL-LOAD CURRENT OF THE SPECIFIC MOTOR TO WHICH CONNECTED WITH APPROPRIATE ADJUSTMENT FOR DUTY CYCLE.

D. ENCLOSURES: FOR INDIVIDUALLY MOUNTED MOTOR CONTROLLERS AND CONTROL DEVICES, COMPLY WITH NEMA STANDARD 250, "ENCLOSURES FOR ELECTRICAL EQUIPMENT (1000 VOLTS MAXIMUM)." PROVIDE ENCLOSURES SUITABLE FOR THE ENVIRONMENTAL CONDITIONS AT THE CONTROLLER LOCATION.

E. PROVIDE CONTROL POWER TRANSFORMER INTEGRAL WITH CONTROLLER WHERE NO OTHER SUPPLY OF CONTROL POWER TO CONTROLLER IS INDICATED. PROVIDE CONTROL POWER TRANSFORMER WITH ADEQUATE CAPACITY TO OPERATE CONNECTED PILOT, INDICATING AND CONTROL DEVICES.

F. COMBINATION CONTROLLER: SWITCH TYPE; FUSED, QUICK-MAKE, QUICK-BREAK SWITCH, FACTORY ASSEMBLED WITH CONTROLLER AND ARRANGED TO DISCONNECT IT. PROVIDE REJECTION-TYPE FUSE CLIPS AND FUSES RATED PER MANUFACTURERS RECOMMENDATION. INTERLOCK SWITCH WITH UNIT COVER OR DOOR.

G. AUXILIARY CONTROL DEVICES SHALL BE FACTORY INSTALLED IN CONTROLLER ENCLOSURE.

H. AUTOMATIC SELECTOR SWITCHES: INSTALL IN COVERS OF CONTROLLERS OF MOTORS STARTED AND STOPPED BY AUTOMATIC CONTROLS OR INTERLOCKS WITH OTHER EQUIPMENT. MAKE CONTROL CONNECTIONS SO ONLY THE MANUAL AND AUTOMATIC CONTROL DEVICES THAT HAVE NO SAFETY FUNCTIONS WILL BE BYPASSED WHEN THE SWITCH IS IN THE HAND POSITION. CONNECT MOTOR CONTROL CIRCUIT IN BOTH HAND AND AUTOMATIC POSITIONS FOR SAFETY TYPE CONTROL DEVICES SUCH AS "LOW" AND "HIGH" PRESSURE CUTOUTS, HIGH TEMPERATURE CUTOUTS, AND MOTOR OVERLOAD PROTECTORS. MAKE CONTROL CIRCUIT CONNECTIONS TO A HAND-OFF-AUTOMATIC SWITCH OR TO MORE THAN ONE AUTOMATIC CONTROL DEVICE IN ACCORDANCE WITH MANUFACTURER PROVIDED WIRING DIAGRAM.

2.13 RACEWAY FOR COMMUNICATIONS WIRING

A. REFER TO THE COMMUNICATIONS RISER DIAGRAM AND ELECTRICAL SYMBOL LEGEND FOR ADDITIONAL REQUIREMENTS.

B. PROVIDE CONDUIT, BACKBOX, BLANK COVERPLATE AND PULL STRING FOR EACH OUTLET INDICATED ON CONSTRUCTION DOCUMENTS. PROVIDE BUSHING ON ENDS OF CONDUIT.

C. PROVIDE EACH CONDUIT WITH PULL STRING STUBBED FROM BACKBOX INTO ACCESSIBLE CEILING SPACE (I.E., LAY-IN CEILING TILE) ABOVE EACH OUTLET.

D. ROUTE CONDUIT THROUGH RATED WALLS AND FLOORS USING U.L. APPROVED FIRE RATED PENETRATION MATERIALS.

PART 3 - EXECUTION

3.01 COOPERATION WITH OTHER TRADES

A. CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES AND SHALL FURNISH IN WRITING TO THE ARCHITECT/ENGINEER ANY INFORMATION NECESSARY TO PERMIT THE WORK OF OTHER TRADES TO BE INSTALLED SATISFACTORILY AND WITH THE LEAST POSSIBLE INTERFERENCE OR DELAY.

B. WHERE ELECTRICAL WORK WILL BE INSTALLED IN CLOSE PROXIMITY TO, OR MAY INTERFERE WITH, WORK OF OTHER TRADES THE CONTRACTORS SHALL ASSIST EACH OTHER IN WORKING OUT A SATISFACTORY SPACE FOR EACH CONTRACTORS WORK. IF DIRECTED BY THE ARCHITECT/ENGINEER, THE CONTRACTOR SHALL PREPARE COMPOSITE WORKING DRAWINGS AND SECTIONS AT SUITABLE SCALE, NOT LESS THAN 1/4" = 1'-0", CLEARLY SHOWING HOW WORK IS TO BE INSTALLED IN RELATION TO WORK OF OTHER TRADES. IF THE CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES, OR CAUSES ANY INTERFERENCE WITH WORK OF OTHER TRADES, THE CONTRACTOR SHALL MAKE THE NECESSARY CHANGES IN THE ELECTRICAL WORK TO CORRECT THE CONDITIONS WITHOUT EXTRA CHARGE.

C. CONTRACTOR SHALL FURNISH TO OTHER TRADES, AS REQUIRED, ALL NECESSARY TEMPLATES, PATTERNS, AND ASSEMBLY DETAILS FOR THE PROPER INSTALLATION OF WORK AND FOR THE PURPOSE OF COORDINATING ADJACENT WORK.

3.02 SCAFFOLDING, RIGGING, HOISTING

A. CONTRACTOR SHALL PROVIDE ALL SCAFFOLDING, RIGGING AND HOISTING NECESSARY FOR ERECTION AND DELIVERY INTO THE PREMISES OF ALL ELECTRICAL EQUIPMENT. REMOVE SAME FROM PREMISES WHEN NO LONGER REQUIRED.

3.03 EXCAVATING AND BACKFILLING

A. CONTRACTOR SHALL PROVIDE ALL TRENCH AND PIT EXCAVATION AND BACKFILLING REQUIRED FOR WORK UNDER THIS SECTION OF THE SPECIFICATIONS, BOTH INSIDE AND OUTSIDE OF THE BUILDING, INCLUDING REPAIRING OF FINISHED SURFACES, ALL REQUIRED SHORING, BRACING, PUMPING, AND ALL PROTECTION FOR SAFETY OF PERSONS AND PROPERTY. LOCAL OR STATE SAFETY CODES SHALL BE FOLLOWED.

B. IN ADDITION, THE CONTRACTOR SHALL CHECK THE ELEVATIONS OF THE UTILITIES ENTERING AND LEAVING THE BUILDING. IF SUCH ELEVATIONS REQUIRE EXCAVATIONS LOWER THAN THE FOOTING LEVELS, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF SUCH CONDITIONS BEFORE EXCAVATIONS COMMENCE. CONTRACTOR SHALL MAKE EXCAVATIONS AT THE MINIMUM REQUIRED DEPTHS IN ORDER NOT TO UNDERCUT THE FOOTINGS. CONFORM TO THE REQUIREMENTS OF THE STATE OF FLORIDA "TRENCH SAFETY ACT". FILLING, BACKFILLING AND COMPACTION SHALL BE AS SPECIFIED IN OTHER AREAS OF THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

3.04 MATERIAL AND WORKMANSHIP

A. ALL MATERIALS AND APPARATUS REQUIRED FOR ELECTRICAL WORK, EXCEPT AS SPECIFICALLY NOTED OTHERWISE, SHALL BE NEW, OF FIRST CLASS QUALITY, AND SHALL BE FURNISHED, DELIVERED, ERECTED, CONNECTED AND FINISHED IN EVERY DETAIL AND SHALL BE SO SELECTED AND ARRANGED AS TO FIT PROPERLY INTO THE BUILDING SPACES. WHERE NO SPECIFIC KIND OR QUALITY OF MATERIAL IS GIVEN, A FIRST CLASS STANDARD ARTICLE, AS APPROVED BY THE ENGINEER, SHALL BE PROVIDED.

B. CONTRACTOR SHALL PROCURE THE SERVICES OF AN EXPERIENCED SUPERINTENDENT, WHO SHALL BE CONSTANTLY IN CHARGE OF THE INSTALLATION OF THE WORK, TOGETHER WITH ALL SKILLED WORK PERSONNEL, FITTERS, METAL WORKERS, WELDERS, HELPERS, AND LABOR REQUIRED TO UNLOAD, TRANSFER, ERECT, CONNECT, ADJUST, START, OPERATE AND TEST EACH SYSTEM.

C. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. THIS INCLUDES THE PERFORMANCE OF ALL TESTS RECOMMENDED BY THE MANUFACTURER.

3.05 CUTTING AND PATCHING

A. CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING NECESSARY TO INSTALL ELECTRICAL WORK. PATCHING SHALL MATCH ADJACENT SURFACES AND SHALL MEET THE APPROVAL OF THE ARCHITECT AND OWNER.

B. NO STRUCTURAL MEMBERS SHALL BE CUT OR MODIFIED IN ANY WAY WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER. ANY MODIFICATION SHALL BE DONE IN A MANNER APPROVED BY THE STRUCTURAL ENGINEER.

3.06 SLEEVES AND PLATES

A. CONTRACTOR SHALL PROVIDE AND LOCATE ALL SLEEVES REQUIRED FOR ELECTRICAL WORK BEFORE THE FLOORS, WALLS AND CEILINGS ARE CONSTRUCTED, OR SHALL BE RESPONSIBLE FOR THE COST OF CUTTING AND PATCHING WHERE SLEEVES WERE NOT INSTALLED, OR WHERE INCORRECTLY LOCATED. CONTRACTOR SHALL PROVIDE ALL DRILLING REQUIRED FOR THE INSTALLATION OF HIS HANGERS. SLEEVES SHALL BE PROVIDED FOR ALL CONDUIT PASSING THROUGH CONCRETE FLOOR SLABS ABOVE GRADE AND CONCRETE, MASONRY, TILE AND GYPSUM WALL CONSTRUCTION.

B. CONDUIT THROUGH FLOORS AND WALLS SHALL UTILIZE A U.L. APPROVED FIRE RATED PENETRATION SYSTEM. WHERE SLEEVES ARE PLACED IN EXTERIOR WALLS BELOW GRADE, THE SPACE BETWEEN THE CONDUIT AND THE SLEEVES SHALL BE SEALED WATERTIGHT.

C. WHERE CONDUIT MOTION DUE TO EXPANSION AND CONTRACTION WILL OCCUR, PROVIDE SLEEVES OF SUFFICIENT DIAMETER TO PERMIT FREE MOVEMENT OF THE CONDUIT. CHECK FLOOR AND WALL CONSTRUCTION FINISHES TO DETERMINE PROPER LENGTH OF SLEEVES FOR VARIOUS LOCATIONS. PROVIDE ACTUAL LENGTHS TO SUIT THE FOLLOWING:
1. TERMINATE SLEEVES FLUSH WITH WALLS, PARTITIONS AND CEILING.
2. IN AREAS WHERE CONDUIT IS CONCEALED, AS IN CHASES, TERMINATE SLEEVES 1" ABOVE FLOOR.
3. IN AREAS WHERE CONDUIT IS EXPOSED, EXTEND SLEEVES 2" ABOVE FINISHED FLOOR.
4. SLEEVES SHALL BE CONSTRUCTED OF SCHEDULE 40 STEEL PIPE.

D. FASTEN SLEEVES SECURELY IN FLOORS AND WALLS SO THEY WILL NOT BECOME DISPLACED WHEN CONCRETE IS POURED OR WHEN OTHER CONSTRUCTION IS BUILT AROUND THEM. TAKE PRECAUTIONS TO PREVENT CONCRETE, PLASTER OR OTHER MATERIALS FROM BEING FORCED INTO THE SPACE BETWEEN PIPE AND SLEEVE DURING CONSTRUCTION.

3.07 PENETRATIONS

A. ALL PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS AND CEILINGS SHALL BE PROVIDED WITH A U.L. APPROVED FIRE STOP METHOD IN ACCORDANCE WITH THE 2010 FLORIDA FIRE PREVENTION CODE.

3.08 PROJECT CLOSE-OUT

A. TESTING: FINAL TESTS SHALL BE MADE AFTER WORK HAS BEEN COMPLETED. PROVIDE COPY OF FINAL TEST TO OWNER/ ARCHITECT/ ENGINEER. WHEN REQUESTED, THE CONTRACTOR SHALL CONDUCT REQUIRED OPERATING TEST(S) IN THE PRESENCE OF THE ARCHITECT/ENGINEER AND OTHER AUTHORIZED PERSONS.

B. TESTS SHALL DEMONSTRATE THAT THE SYSTEM FUNCTIONS PROPERLY THROUGHOUT, THAT IT IS FREE FROM GROUNDS AND SHORTS, AND THAT ALL REQUIREMENTS HEREIN HAVE BEEN COMPLIED WITH. CONTRACTOR SHALL PROVIDE ALL NECESSARY INSTRUMENTS AND PERSONNEL FOR TESTS AND THE OWNER WILL SUPPLY THE CURRENT. TESTS SHALL BE AS PRESCRIBED BY THE AUTHORITY HAVING JURISDICTION AND ENGINEER AND SHALL INCLUDE MEGGER TESTS IN ACCORDANCE WITH N.E.C. RECOMMENDATIONS.

3.09 FINAL ACCEPTANCE

A. AFTER TESTING, A FINAL INSPECTION SHALL BE MADE BY THE OWNER/ ARCHITECT/ ENGINEER AND OTHER AUTHORIZED PERSONS WITH THE CONTRACTOR. THE INSPECTION SHALL INCLUDE, BUT NOT BE LIMITED TO, CHECK ALL PANELS ARE COMPLETE WITH NAMEPLATES AND CIRCUIT DIRECTORIES, ALL LIGHTING FIXTURES ARE OPERATING, PROPERLY CLEANED AND LAMPED, AND THAT ALL WORK HAS BEEN PERFORMED IN PROFESSIONAL MANNER.

B. FINAL ACCEPTANCE OF THE PROJECT SHALL NOT PREJUDICE THE OWNER'S RIGHT TO REQUIRE REPLACEMENT AND/OR REPAIR OF ANY DEFECTIVE WORK OR MATERIALS.

3.10 WARRANTY

A. ALL PARTS, MATERIALS, EQUIPMENT AND LABOR FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS SHALL BEAR A ONE (1) YEAR, NO COST TO THE OWNER, WARRANTY FROM THE DATE OF FINAL ACCEPTANCE. CONTRACTOR SHALL PROVIDE ALL OF THE ABOVE WARRANTY REQUIREMENTS IN A WRITTEN STATEMENT ALONG WITH EQUIPMENT MANUFACTURER'S WARRANTIES.

3.11 RECORD DRAWINGS

A. CONTRACTOR SHALL KEEP ACCURATE RECORDS OF ACTUAL CONDITIONS INCLUDING DEVICE LOCATIONS AND CONDUIT RUNS WHERE DIFFERENT FROM THE CONTRACT DOCUMENTS. CONTRACTOR SHALL PROVIDE OWNER WITH A REPRODUCIBLE SET OF "AS BUILT" PLANS SHOWING THE COMPLETE ELECTRICAL AND FIRE ALARM SYSTEMS AS INSTALLED (AS BUILT DRAWINGS). THE SCALE ON THESE AS BUILT DRAWINGS SHALL BE NO SMALLER THAN THE SCALE USED ON THE ORIGINAL PLANS.

END OF DIVISION 16

FAWLEY BRYANT
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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

ELECTRICAL SPECIFICATIONS

Project No.	2013019.06
Drawn By	NJH
Checked By	PJF
Date	09.29.14

Revisions:

"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

Job Number: 4096.13.00
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CONSTRUCTION DOCUMENTS

Originals printed @ 24" x 36" scale as required

PLUMBING SHEET INDEX

PLUMBING FIXTURE UNIT CALCULATIONS

FIXTURE	COLD WATER FIXTURE UNITS	HOT WATER FIXTURE UNITS	TOTAL WATER FIXTURE UNITS	DRAINAGE FIXTURE UNITS	# OF FIXTURES	WATER FIXTURE UNIT TOTALS	DRAINAGE FIXTURE UNIT TOTALS	COMMENTS
WATER CLOSET (FLUSH TANK)	5.00	0.00	5.00	4.00	10.0	50	40	
URINAL (FLUSH TANK)	3.00	0.00	3.00	4.00	2.0	6	8	
LAVATORY	1.50	1.50	2.00	1.00	10.0	20	10	
HOSE BIBB	10.00	0.00	10.00	0.00	0.0	0	0	
SERVICE SINK	2.25	2.25	3.00	2.00	1.0	3	2	
SINK	3.00	3.00	4.00	2.00	1.0	4	2	
FLOOR DRAIN	0.00	0.00	0.00	2.00	0.0	0	0	
EWC	0.25	0.00	0.25	0.50	2.0	1	1	
TOTAL						84	63	

TANK-LESS ELECTRIC WATER HEATER

MANUFACTURER/ QUANTITY	MODEL	KW	VOLTS	MAX POWER (AMP)	GALLONS READILY AVAILABLE
BOSCH ARISTON/1	GL2.5S	1.5	120	12.5	2.7

NOTE: MOUNTE SUCH THAT ADA CLEARANCES ARE MAINTAINED.

WATER HEATER SCHEDULE

	MAKE & MODEL	TYPE	STORAGE (GALLONS)	DIM (INCHES)	REC (GPH)	INPUT (BTUH)	FLUE (INCHES)	ELECTRICAL KW	V	PH	HZ	LOCATIONS (SEE ALSO PLANS)	NOTES
EWH -1	A.O. SMITH DEL-6	TANK-ELE.	6	15 1/2"X 14 1/4"	28 / 30	-	-	(1) 2.5	208	1	60	RR	1,2,3 & 4

NOTES
1. PROVIDE FACTORY INSTALLED CONTROLS INCLUDING T-STATS SET ON 110°F
2. PROVIDE ALL REQUIRED OPTIONS TO COMPLETE THE INSTALLATION.
3. INSTALL EWH IN ACCORDANCE TO SPC, SMC CODES, FLORIDA E.E. CODE, APPLICABLE STANDARDS AND MANUFACTURERS RECOMMENDATIONS.
4. THE EWH SHALL BE WIRED FOR NON-SIMULTANEOUS SINGLE ELEMENT OPERATION.

SPECIALTIES SCHEDULE

WCO	WALL CLEANOUT	ZURN	Z-1446	ROUND ACCESS COVER
HB	HOSE BIBB	WOODFORD	24P-1/2 & 24P-3/4	POLISHED CHROME FINISH W/VACUUM BREAKER
SA	W. HAMMER ARRESTOR	ZURN	Z-1700 SHOKTROL	SIZE FOR 3/4" & 1" PIPE.
FD	FLOOR DRAIN	ZURN	Z-415-ZN-P	9" ~ TYPE "B" STRAINER, MEMBR. CLAMP. PROVIDE AND INSTALL DEEP SEAL TRAPS.
VR (EWH)	VACUUM RELIEF VALVE	WATTS	MODEL No: N36-M1	ALL BRASS BODY (INSTALL A MINIMUM OF 6" ABOVE WATER HEATER)

EXPANSION TANK SCHEDULE

MARK	MAKE & MODEL	TYPE	MAX. PRESS. (psi)	MAX. OPERATING TEMP. °F	TANK VOLUME GAL (TOTAL)	TANK ACCEPTANCE GAL	AIR PRE-CHARGED PSI	CONNECTION SIZE	TANK SIZE DIAMETER	TANK SIZE LENGTH	NOTES
EXT-1	WATTS MODEL# DET-5M1	POTABLE WATER	150 psi	200°	2.1 gal	.85 gal	40 psi	3/4" MALE	8-1/2"	11-1/2"	1 & 2

1 PLUMBING SPECIFICATIONS
NOT TO SCALE

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	SOIL/ WASTE	VENT	COLD WATER	HOT WATER	OTHER CONN.	MANUFACTURER	DESCRIPTION
EWC-1H	ELECTRIC WATER COOLER ADA COMPLIANT	2"	2"	1/2"	-	-	ELKAY #EZSTL-8-C	• BI-LEVEL ELECTRIC WATER COOLER, 120 VOLT.
FD-1	FLOOR DRAIN	3"	-	-	-	-	ZURN MODEL Z400H	• ZURN FLOOR DRAIN "TYPE H" ROUND STRAINER WITH CLAMP DEVICE. • ALL FLOOR DRAINS SHALL BE INSTALLED WITH TRAP PRIMERS. COORDINATE EXACT LOCATIONS AND QUANTITY OF FLOOR DRAINS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. • PROVIDE TRAP PRIMER CONNECTION TO FLOOR DRAINS IN TOILET ROOMS EQUAL TO J.R. SMITH MODEL 2698, SEE DETAIL #001J, SECTION 15100 ON DRAWING P6.1. ALL OTHER FLOOR DRAINS TO BE PROVIDED WITH TRAP PRIMERS EQUAL TO PRECISION PRODUCTS INC., SEE DETAIL #002E, SECTION 15100 ON DRAWING P6.1.
L-1	LAVATORY COUNTER TOP MOUNTED	2"	2"	1/2"	1/2"	-	AMERICAN STANDARD FIXTURE # 0476.028 AMERICAN STANDARD FAUCET # 7385-004	• VITREOUS CHINA, COUNTERTOP MOUNTED, 4" FAUCET CENTERS SELF-RIMMING, FRONT OVERFLOW • FAUCET W/LEVER HANDLE, 0.5 GPM, VANDAL RESISTANT FLOW DEVICES FOR 4" FAUCET HOLES. (SEE NOTES #1, 2, 3 & 4) LESS POP-UP DRAIN
L-1A	LAVATORY WALL MOUNTED ADA	2"	2"	1/2"	1/2"	-	AMERICAN STANDARD FIXTURE # 0356.012 AMERICAN STANDARD FAUCET # 7385-004 CARRIER ZURN # 1231 DRAIN & SUPPLIES:	• VITREOUS CHINA, WALL MOUNTED, W/CONCEALED ARM CARRIERS SUPPORTED FROM FLOOR & FRONT OVERFLOW • FAUCET W/LEVER HANDLE, 0.5 GPM, VANDAL RESISTANT FLOW DEVICES FOR 4" FAUCET HOLES. LESS POP-UP DRAIN SEE NOTES #1, 2 ,3 & 4)
MS-1	MOP SINK	2"	2"	1/2"	1/2"	-	MUSTEE CATALOG NUMBER #62M TRIM MANUFACTURER ZURN Z843MI-RC-WHK-SH	• WITH INTEGRAL MOLDER CENTRAL DRAIN AND (2) DURAGUARD WALL GUARDS.
S-1	KITCHENNETTE SINK	1-1/2"	1-1/2"	1/2"	1/2"	-	ELKAY #LR1918 ELKAY #LK18 & LK4100	• 19" X 18" SINK, COUNTERTOP, SINGLE COMPARTMENT, SELF RIM, #302 STAINLESS STEEL WITH DROP LEDGE. TWO HOLE PUNCH, • FAUCET
U-1H	URINAL ADA COMPLIANT	2"	2"	3/4"	-	-	AMERICAN STANDARD WASHBROOK 0.7 6501.010	• LOW-CONSUMPTION (1.0 GPF), WITH INTEGRAL FLUSHING RIM, WASHOUT FLUSH ACTION, OUTLET THREADED FOR 2" FEMALE CONNECTION INTEGRAL TRAP, AND ZURN OR SMITH CONCEALED WALL HANGERS AND 2 IN. FEMALE FLANGED OUTLET CONNECTION. EXPOSED 3/4" TOP SPUD FLUSH VALVE, VACUUM BREAKER, WALL & SPUD FLANGES, ANGLE STOP VALVE WITH VANDAL RESISTANT CAP, ADJUSTABLE TAILPIECE, AND NON-HOLD-OPEN HANDLE.
W-1HR	WATER CLOSET, EXPOSED MANUAL FLUSH VALVE SYSTEM ADA COMPLIANT	4"	2"	1/2"	-	-	AMERICAN STANDARD MODEL # 1.28 GPF	• ELONGATED FLOOR MOUNT FLUSHOMETER VALVE TOILET 28-1/4" X 14" X 15". HIGH EFFICIENCY, LOW 1.28 GPF. FULLY GLAZED 2-1/8 TRAPWAY. 10" OR 12" ROUGH-IN. • 15" RIM HEIGHT FOR ACCESSIBLE APPLICATIONS. CONDENSATION CHANNEL. • 10" X 12" WATER SURFACE AREA. • 1-1/2" INLET SPUD. 2 BOLT CAPS.
W-1R	WATER CLOSET, EXPOSED MANUAL FLUSH VALVE SYSTEM	4"	2"	1/2"	-	-	AMERICAN STANDARD MODEL # 1.28 GPF	• ELONGATED FLOOR MOUNT FLUSHOMETER VALVE TOILET 28-1/4" X 14" X 15". HIGH EFFICIENCY, LOW 1.28 GPF. FULLY GLAZED 2-1/8 TRAPWAY. 10" OR 12" ROUGH-IN. • 15" RIM HEIGHT FOR ACCESSIBLE APPLICATIONS. CONDENSATION CHANNEL. • 10" X 12" WATER SURFACE AREA. • 1-1/2" INLET SPUD. 2 BOLT CAPS.
W-1HL	WATER CLOSET, FLOOR MOUNTED FLUSH TANK, LEFT SIDE FLUSH HANDLE, ADA COMPLIANT	4"	2"	1/2"	-	-	AMERICAN STANDARD MODEL # 1.28 GPF	• ELONGATED FLOOR MOUNT FLUSHOMETER VALVE TOILET 28-1/4" X 14" X 15". HIGH EFFICIENCY, LOW 1.28 GPF. FULLY GLAZED 2-1/8 TRAPWAY. 10" OR 12" ROUGH-IN. • 15" RIM HEIGHT FOR ACCESSIBLE APPLICATIONS. CONDENSATION CHANNEL. • 10" X 12" WATER SURFACE AREA. • 1-1/2" INLET SPUD. 2 BOLT CAPS.
W-1L	WATER CLOSET, EXPOSED MANUAL FLUSH VALVE SYSTEM	4"	2"	1/2"	-	-	AMERICAN STANDARD MODEL # 1.28 GPF	• ELONGATED FLOOR MOUNT FLUSHOMETER VALVE TOILET 28-1/4" X 14" X 15". HIGH EFFICIENCY, LOW 1.28 GPF. FULLY GLAZED 2-1/8 TRAPWAY. 10" OR 12" ROUGH-IN. • 15" RIM HEIGHT FOR ACCESSIBLE APPLICATIONS. CONDENSATION CHANNEL. • 10" X 12" WATER SURFACE AREA. • 1-1/2" INLET SPUD. 2 BOLT CAPS.

1. LAVATORY, SINKS & TANK TYPE WATER COOLERS SUPPLY SHALL BE BRASS W/ BRASS ANGLE STOPS FOR 1/2" WATER SUPPLY LINES, W/ LOOSE KEY (W/CAP), AND WALL FLANGE. ALL COMPONENTS SHALL BE POLISHED CHROME FINISH. MANUFACTURER: BRASS CRAFT OR APPROVED EQUAL.
2. CAST BODY "P" TRAP 1-1/2" x 1-1/2" WITH HEAVY CAST J-BEND & FLAT CLEANOUT PLUG, SLIP NUTS AND WALL FLANGE. ALL COMPONENTS SHALL BE POLISHED CHROME FINISH. MANUFACTURER: BRASS CRAFT OR APPROVED EQUAL.
3. STRAINERS SHALL BE FURNISHED W/FIXTURES. FOR H/C LAVATORY OR SINKS PROVIDE OFFSET TAILPIECE.
4. PROVIDE TRUEBRO MODEL 103 (WHITE), ANTIMICROBAL HANDI LAV-GUARDS INSTALLATION KIT FOR ALL WHEELCHAIR LAVATORY & SINKS FOR WATER SUPPLIES & WASTE LINE.

PLUMBING SPECIFICATIONS

PART 1 - GENERAL

0.01 GENERAL SCOPE

A. THIS PROJECT WILL REQUIRE INSTALLATION OF NEW PLUMBING FIXTURES.

1.01 GENERAL DOCUMENTS

A. INSTALLATION SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2010, WHICH INCLUDES THE FLORIDA BUILDING CODE, PLUMBING AND FUEL GAS CODES. ALL EQUIPMENT SHALL BE UL LISTED.

B. THE PLUMBING WORK SHALL INCLUDE FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND SERVICE NECESSARY FOR THE PROPER COMPLETION OF ALL PLUMBING WORK SHOWN ON THE DRAWINGS AND AS SPECIFIED. ALL MATERIAL SHALL BE NEW.

1.02 SUBMITTALS

A. MATERIALS OR PRODUCTS SPECIFIED HEREIN AND/OR INDICATED ON DRAWINGS BY TRADE NAME, MANUFACTURER'S NAME OR CATALOG NUMBERS SHALL BE INTERPRETED AS ESTABLISHING A STANDARD OF QUALITY AND DESIGN. SUBSTITUTIONS MAY BE ALLOWED IF THEY MEET THE QUALITY STANDARDS AND DESIGN INTENT, UNLESS OTHERWISE NOTED.

B. PRIOR TO STARTING THE PROJECT, THE PLUMBING CONTRACTOR SHALL STUDY THE COMPLETE SET OF CONSTRUCTION DOCUMENTS AND COORDINATE WITH THE MANUFACTURER(S) AS REQUIRED TO PROVIDE EQUIPMENT SUBMITTALS TO SUBMIT TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. THE EQUIPMENT SUBMITTALS SHALL INCLUDE DIMENSIONS, WEIGHTS, SPECIFIED ACCESSORIES AND REQUIRED CLEARANCES, AS WELL AS FAN CURVES, SOUND LEVELS, CONSTRUCTION DETAILS, WARRANTY INFORMATION, AND ALL OTHER RELEVANT DATA.

C. IF SUBSTITUTIONS TO THE BASIS OF DESIGN ARE SUBMITTED, THE CONTRACTOR SHALL PROVIDE A CLEAR, DETAILED SUMMARY IN THE SUBMITTALS OF THE DIFFERENCES BETWEEN THE SUBMITTED EQUIPMENT AND THE BASIS OF DESIGN. ADDITIONALLY, CONTRACTOR SHALL PROVIDE AN AFFIDAVIT STATING THAT PROPOSED SUBSTITUTION IS AN EQUAL TO THAT WHICH IS SPECIFIED. THE ENGINEER MAY ACCEPT OR REJECT THE SUBSTITUTIONS.

1.03 SHOP DRAWINGS

A. FURNISH SIX (6) COPIES OF SHOP DRAWINGS OF EQUIPMENT, FIXTURES AND SYSTEM LAYOUT TO OWNER PRIOR TO PURCHASING ANY EQUIPMENT AND BEGINNING WORK.

1.04 RECORD DRAWINGS

A. AFTER COMPLETION OF ALL WORK, THE PLUMBING CONTRACTOR SHALL PROVIDE THE OWNER WITH AS BUILT RECORD DRAWINGS. CONTRACTOR SHALL KEEP A RECORD OF THE LOCATIONS OF ALL CONCEALED WORK AND UPON COMPLETION OF THE JOB, SHALL SUPPLY AS-BUILT DRAWINGS SHOWING ANY DEVIATION FROM THE ORIGINAL DRAWINGS. THESE DRAWINGS SHALL INDICATE DIMENSION OF BURIED UTILITY LINES FROM BUILDING WALLS.

PART 2 - INSTALLATION

2.01 MATERIAL

A. SOIL, WASTE, VENT, & ROOF DRAIN PIPING DRAINAGE PIPING: ABOVE FLOOR SHALL BE SERVICE WEIGHT CAST IRON, NO HUB, WITH STAINLESS STEEL CLAMPS AND SHIELDS WITH NEOPRENE SEALING SLEEVES OR PVC-DWV SCHEDULE 40 PIPE AND BELOW SLAB SHALL BE PVC-DWV SCHEDULE 40 PIPE AND FITTINGS WITH SOLVENT WELD JOINTS AND DRAINAGE PATTERN FITTINGS. SAW CUT FLOOR AS NECESSARY FOR INSTALLATION OF NEW SANITARY DRAINAGE PIPING. REPAIR/PATCH FLOOR TO MATCH ADJACENT AREAS.

B. DOMESTIC WATER PIPING: DOMESTIC WATER PIPING SHALL BE TYPE L COPPER TUBING WITH LEAD FREE SOLDER JOINTS. PIPING BELOW SLAB UP TO FIVE FEET (5') BEYOND THE BUILDING WALLS SHALL OR TO THE POINT OF CONNECTION TO THE EXISTING SERVICES BE COPPER TUBING TYPE K. PIPE FITTING SHALL BE WROUGHT COPPER. NO JOINTS BELOW FLOOR. SCHEDULE 40 CPVC WITH SOLVENT WELD JOINTS ASTM 02846, F441 & F442 INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS IS ALSO ACCEPTABLE.

C. PIPE INSULATION: HOT WATER SUPPLY AND RETURN PIPING SHALL BE INSULATED WITH 1 " THICK R-6 MINIMUM FIBERGLASS OR EQUAL, IN COMPLIANCE WITH APPLICABLE ENERGY CODES, STORM WATER PIPING INCLUDING ROOF DRAIN SUMPS, ALL HORIZONTAL RAINWATER LEADERS & ANY PIPING ABOVE SLAB RECEIVING COLD WATER DISCHARGE FROM A/C UNITS, ICE MACHINES ETC. SHALL BE INSULATED WITH THICK R-6 MINIMUM FIBERGLASS (OR EQUAL) INSULATION WITH VAPOR JACKET.

2.02 VALVES

A. EQUAL TO NIBCO, CRANE, OR WALWORTH. ALL BRONZE 150 LB. BALL VALVES WITH RISING STEMS.

2.03 SPECIALTIES

A. PIPE PROTECTIVE COATING: FOR STEEL OR COPPER PIPE, PERMACEL OR SCOTCHWRAP VINYL TAPE APPLIED OVER PIPE TO A TOTAL MINIMUM THICKNESS OF 20 MLS. APPLY TO ALL WATER PIPE IN CONTACT WITH MASONRY OR CONCRETE.

B. PIPE HANGERS: HANGERS FOR BARE COPPER PIPE THROUGH 4 INCH (4 ") DIAMETER OR SMALLER SHALL BE ADJUSTABLE RING TYPE, PLASTIC COATED EQUAL TO MICHIGAN 102a, FOR STEEL PIPE MICHIGAN 100.

C. DRAINS AND CLEANOUTS: SEE SCHEDULE ON DRAWINGS.

D. DIELECTRIC UNIONS: PROVIDE EBCO OR CAPITOL DIELECTRIC UNIONS AT ALL POINTS OF CONNECTION BETWEEN DISSIMILAR PIPE METALS.

E. FLASHING AND VENT STACKS: ALL VENTS EXTENDING THROUGH THE ROOF SHALL BE PROVIDED WITH FOUR POUND SHEET LEAD FLASHING EXTENDING UPWARD AROUND THE PIPE AND TURNED DOWN INSIDE THE PIPE OR AS OTHERWISE SHOWN ON THE DRAWINGS. THE ROOF FLASHING SHALL BE INSTALLED BY LICENSED ROOFING CONTRACTOR.

F. ESCUTCHEONS AND SLEEVES. WHERE PIPES PIERCE EXPOSED PARTITIONS, FLOORS, WALL, OR CEILINGS, PROVIDE CHROME PLATED ESCUTCHEONS TO THE COVER THE RAW EDGE.

G. SLEEVES SHALL BE PROVIDED A ALL PIPE PENETRATIONS OF MASONRY AND CONCRETE WALLS AND FLOORS.

H. PROVIDE UL LISTED FIRE STOPPING PIPE PENETRATION ASSEMBLIES AT ALL PIPING THROUGH RATED WALLS AND ASSEMBLIES.

I. TRAP PRIMERS: RESEAL ALL FLOOR DRAIN TRAPS WITH $\frac{3}{4}$" WATER LINE CONNECTED TO A TRAP PRIMER FITTING IN THE COLD WATER SUPPLY LINE SERVING A FREQUENTLY USED PLUMBING FIXTURE.

J. ADA WRAP: HANDICAPPED LAVATORIES SHALL HAVE ADA APPROVED UNDER COUNTER WRAP FOR WASTE AND WATER PIPING.

PART 3 - EXECUTION

3.01 INSTALLATION

A. INSTALL PIPE ABOVE GROUND PLUMB AND SQUARE WITH BUILDING LINES, ADEQUATELY SUPPORTED WITHOUT SAGS OR HIGH POINTS. CONCEAL PIPING IN OCCUPIED AREAS AND MAINTAIN HEAD ROOM AND ACCESS SPACE IN UNFINISHED AREAS. SLEEVE PIPING THROUGH ALL WALLS, SLABS, OR PARTITIONS WITH ESCUTCHEONS AT ALL FINISHED SURFACE. PROVIDE UNIONS AT ALL FINAL CONNECTIONS AND STOPS ON ALL SUPPLIES. ALL PIPE OPENINGS SHALL BE PLUGGED DURING INSTALLATION.

B. SANITARY DRAINAGE PIPING 3 " & LARGER SHALL BE INSTALLED WITH A MINIMUM 1/8 " PER FOOT SLOPE UNLESS NOTED OTHERWISE. ALL DRAINAGE PIPING 2-1/2 " AND SMALLER SHALL BE INSTALLED WITH A MINIMUM OF 1/4 " PITCH PER FOOT.

C. ALL FIXTURES AND TRIM FOR HANDICAPPED SHALL BE INSTALLED IN COMPLIANCE WITH ADA CODE.

D. INSTALL ALL PIPING TO ALLOW FOR EXPANSION.

E. SEE RISER DIAGRAMS FOR ALL DRAINAGE & VENT PIPE SIZING FOR THE PLUMBING SYSTEMS. REFER TO PLUMBING FLOOR PLAN (WATER SYSTEM) & SCHEDULES FOR ALL WATER PIPING SYSTEM SIZING.

F. ALL WORK ASSOCIATED WITH HANDICAPPED TOILETS SHALL COMPLY WITH ADA REQUIREMENTS AND FLORIDA BUILDING CODE - CHAPTER 11 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.

G. FINAL CONNECTIONS TO DRAINAGE AND WATER SERVICE LINES TO EXISTING OR NEW AS SHOWN ON THESE DOCUMENTS SHALL BE BY THE PLUMBING CONTRACTOR.

3.02 DISINFECTING OF POTABLE WATER SYSTEM

A. THE SYSTEM SHALL BE FILLED WITH A SOLUTION CONTAINING 50 PARTS PER MILLION OF AVAILABLE CHLORINE AND ALL ALLOWED TO STAND 24 HOURS BEFORE FLUSHING AND RETURNING TO SERVICE. DISINFECTION PROCEDURE AND RESULT SHALL BE SUBJECT TO THE APPROVAL OF THE LOCAL PLUMBING INSPECTOR.

3.03 TEST

A. ALL PLUMBING SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE PLUMBING. ALL TESTS SHALL BE APPROVED BY THE LOCAL PLUMBING INSPECTOR AND SHALL BE OBSERVED BY A REPRESENTATIVE OF THE OWNER.

3.03 SYSTEM IDENTIFICATION

A. THE PLUMBING CONTRACTOR SHALL PROVIDE IDENTIFICATION TAGS FOR ALL NEW PIPING AND VALVES IN THE BUILDING AS PER OWNER ACCEPTED STANDARDS, THE PIPE MARKS SHALL INCLUDE PIPING SYSTEM IDENTIFICATION AND DIRECTIONS OF FLOW. EVERY 10 FEET AND CHANGED OF DIRECTION.

3.04 SPECIFICATIONS AND DRAWINGS

A. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE SANITARY, STORM, AND DOMESTIC WATER PIPING SYSTEMS: INCLUDING ALL ASSOCIATED DEVICES, EQUIPMENT, CONTROLS, AND CONNECTIONS TO NEW SERVICES, SUPPORTS, AND HARDWARE REQUIRED FOR THE SATISFACTORY OPERATIONS OF THE SYSTEMS, WHETHER SPECIFICALLY SHOWN OR NOT ON THE DRAWINGS.

B. THE PLANS SHOW THE LOCATION OF ALL FIXTURES AND EQUIPMENT AND ARE INTENDED TO DEPICT THE GENERAL INTENT OF THE WORK IN SCOPE, LAYOUT, AND QUALITY OF WORKMANSHIP. THEY ARE NOT INTENDED TO SHOW IN MINUTE DETAIL EVERY AND ALL ACCESSORIES INTENDED FOR THE PURPOSE OF EXECUTION OF THE WORK, BUT IT SHALL BE UNDERSTOOD THAT SUCH DETAILS SHALL BE PART OF THIS WORK.

C. THE DRAWINGS AND SPECIFICATIONS ARE MEANT TO BE SUPPLEMENTARY, HOWEVER, WHERE DRAWINGS AND SPECIFICATIONS CONFLICT, IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO BRING SUCH CONFLICT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.

D. REFER TO ARCHITECTURAL DRAWINGS AND VERIFY FIELD CONDITIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES.

E. ALL DOCUMENTS, TEST REPORTS, & AS-BUILT DRAWINGS SHALL BE ATTACHED TO THE CLOSING DOCUMENTS OF THE PROJECT.

3.05 WARRANTY

A. THE PLUMBING CONTRACTOR SHALL WARRANT ITS WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE OF ALL WORK.

B. THE PLUMBING CONTRACTOR SHALL PROVIDE FIVE (5) BOUND COPIES OF ALL PLUMBING CONTRACTOR WARRANTIES, MANUFACTURER'S WARRANTIES, PARTS LISTS, AND INSTALLATION AND MAINTENANCE MANUALS FOR ALL PLUMBING EQUIPMENT, AS WELL AS INSTRUCTIONS FOR OPERATING AND MAINTAINING ALL PLUMBING EQUIPMENT TO THE OWNER UPON FINAL COMPLETION.

3.06 COORDINATION

A. COORDINATE WORK WITH OTHER TRADES AND EXISTING CONDITIONS PRIOR TO BEGINNING WORK.CONTRACTOR SHALL PROVIDE ROUTING AND OFFSETS NECESSARY TO AVOID CONFLICT WITH STRUCTURE, FINISHES, AND WORK OF OTHER TRADES.

B. VERIFY LOCATIONS, SIZES, AND INVERT ELEVATIONS OF SANITARY DRAIN, AND DOMESTIC WATER PIPING CONNECTIONS WITH FIELD CONDITIONS AND CIVIL ENGINEERING DRAWINGS (AS APPLICABLE) PRIOR TO PROCEEDING WITH THE WORK. SHOULD ANY DISCREPANCIES BE DISCOVERED CONTRACTORS SHALL SUBMIT A REQUEST FOR INFORMATION TO THE ENGINEER.

C. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL AND PARTITION CONSTRUCTION AND THICKNESS WHERE PLUMBING PIPING, FIXTURES CARRIERS OR EQUIPMENT IS INDICATED. BEFORE STARTING CONSTRUCTION. IDENTIFY ANY CONFLICT PRIOR TO STARTING CONSTRUCTION.

D. COORDINATE EXACT LOCATION, ELEVATIONS, AND SIZES OF ALL SLEEVES IN NEW STRUCTURE WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS.

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

PLUMBING GENERAL NOTES, LEGEND & SCHEDULES

Project No.	2013019.06
Drawn By	ACG
Checked By	MAS
Date	09.29.14

Revisions:

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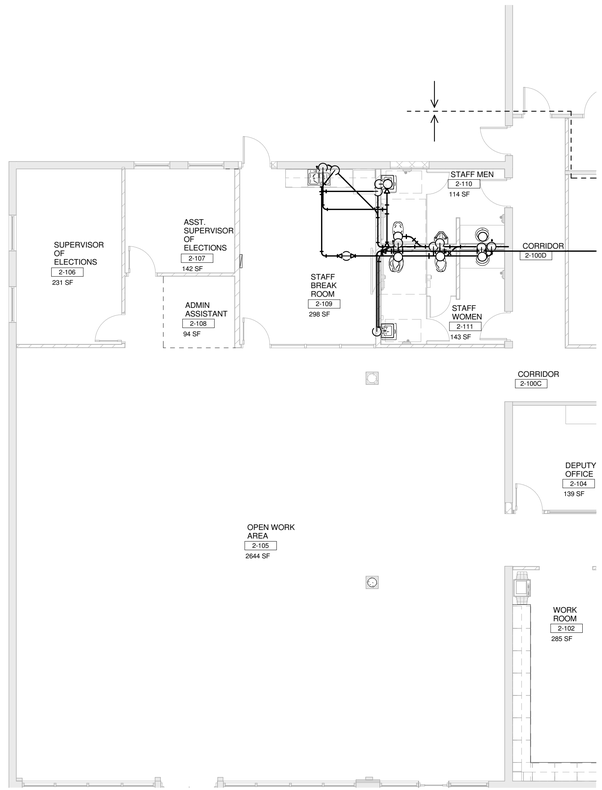
CONSTRUCTION DOCUMENTS

P0.1

Job Number: 4096.13.00
GLOBAL SANCHEZ, INC
BUILDING SYSTEMS ENGINEERING
info@global-sanchez.com CA#: 6237
Bradenton: 816 Manatee Ave. E, Suite 18
Bradenton, FL 34208
Phone: 941-758-2551
Tampa: 3825 Henderson Blvd., Suite 103
Tampa, FL 33629
Phone: 813-281-0001



1 PLUMBING DEMOLITION PLAN PHASE II
1/8" = 1'-0"

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PLUMBING DEMOLITION PLAN PHASE II

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CONSTRUCTION DOCUMENTS

P2.2

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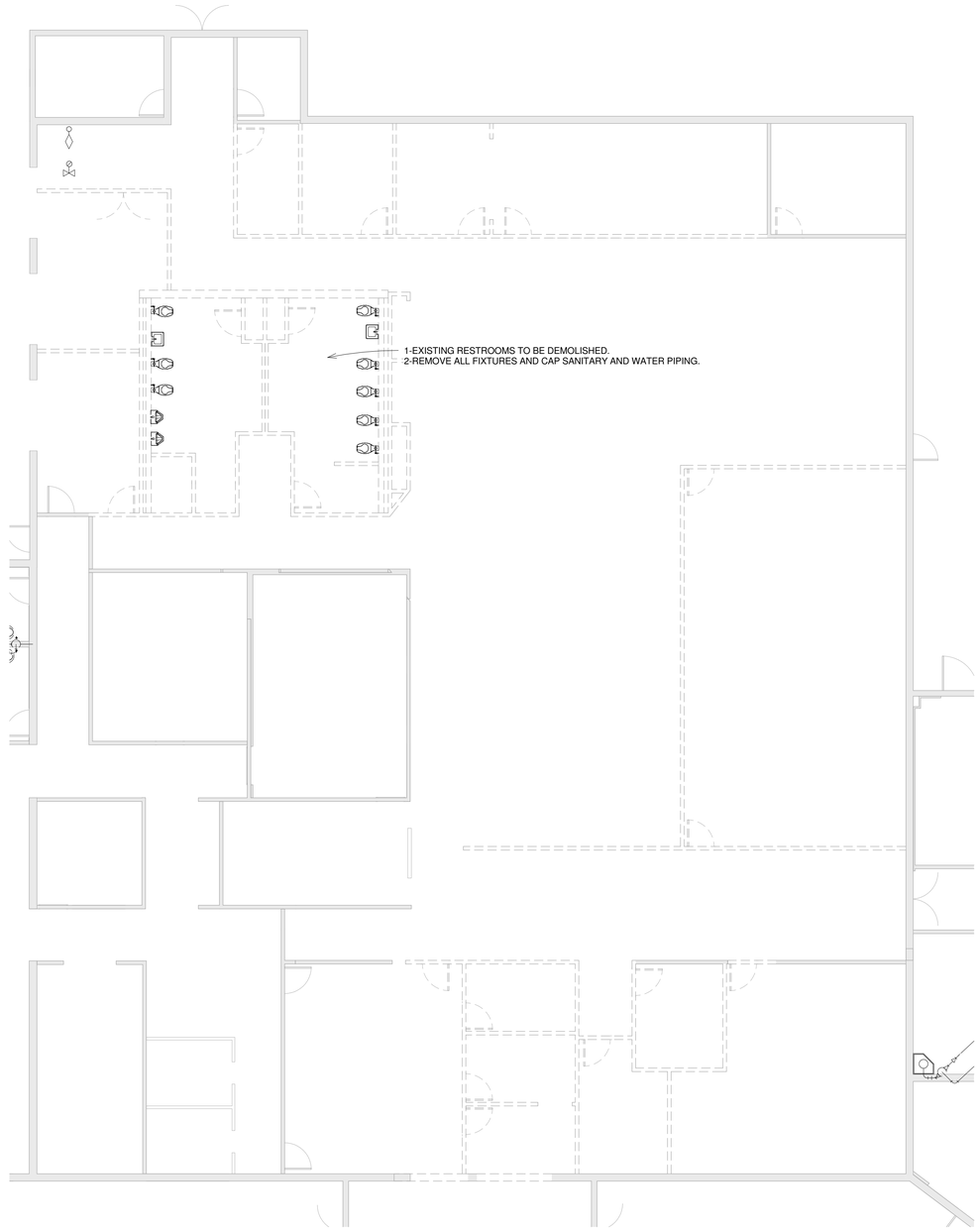
1-REMOVE ALL EXISTING WATER CLOSETS IN THIS AREA.
2-REMOVE ALL EXISTING FIXTURES IN RESTROOM THAT WILL BE REMOVED.
3-CAPPED ALL SANITARY CONNECTIONS WHERE FIXTURES ARE GOING TO BE REMOVED AND NO FIXTURES WILL BE REPLACED.



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PLUMBING DEMOLITION PLAN PLHASE III

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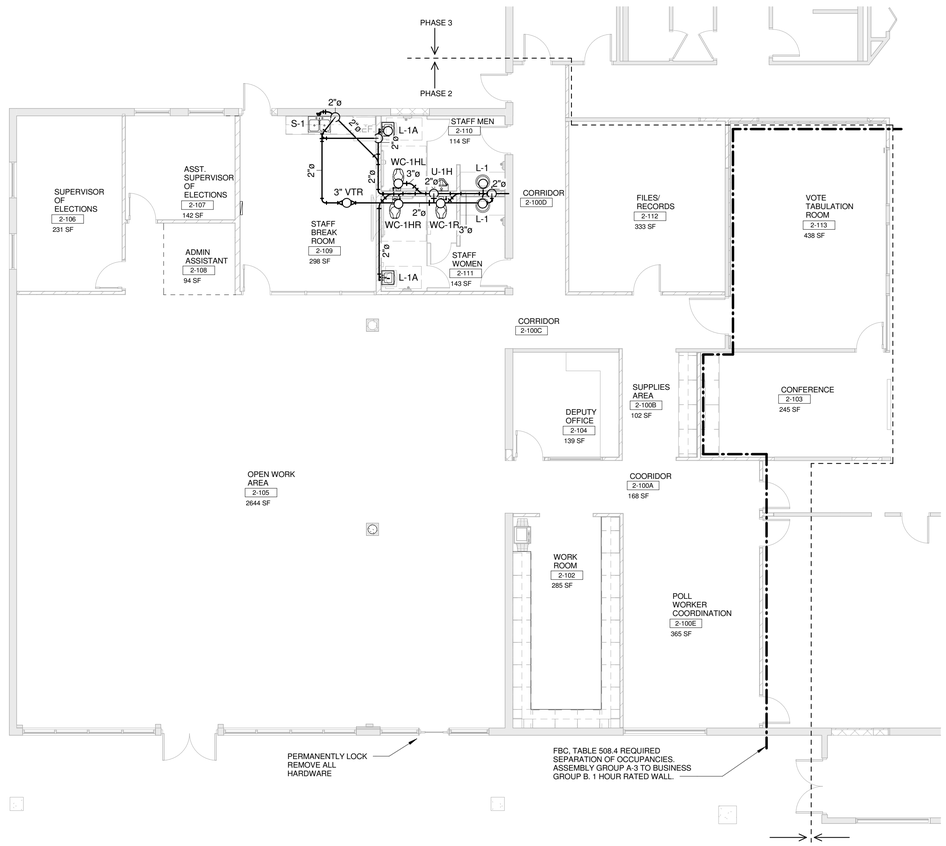

1 SANITARY SEWER PIPING PLAN PHASE II
1/8" = 1'-0"

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

SANITARY SEWER PIPING PLAN PHASE II

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CONSTRUCTION DOCUMENTS

P4.2

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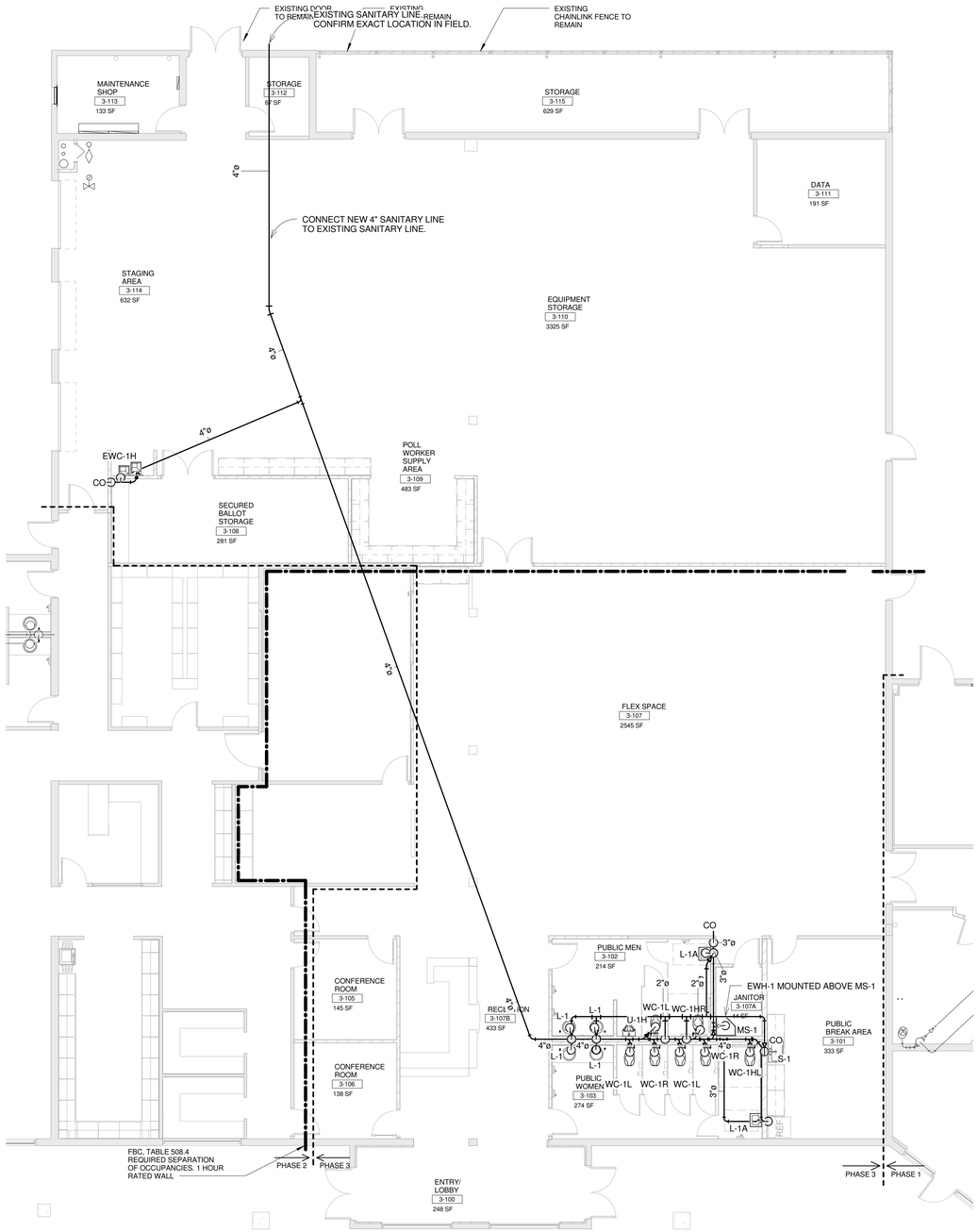

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

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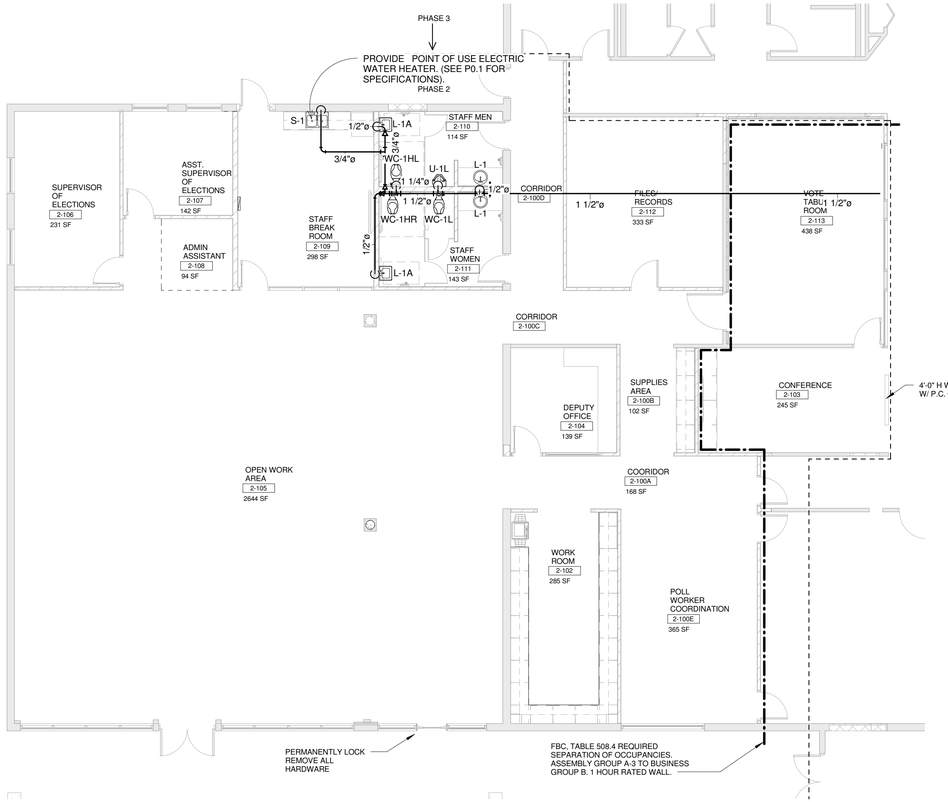

1 DOMESTIC WATER PIPING PLAN PHASE II
1/8" = 1'-0"

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

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CONSTRUCTION DOCUMENTS

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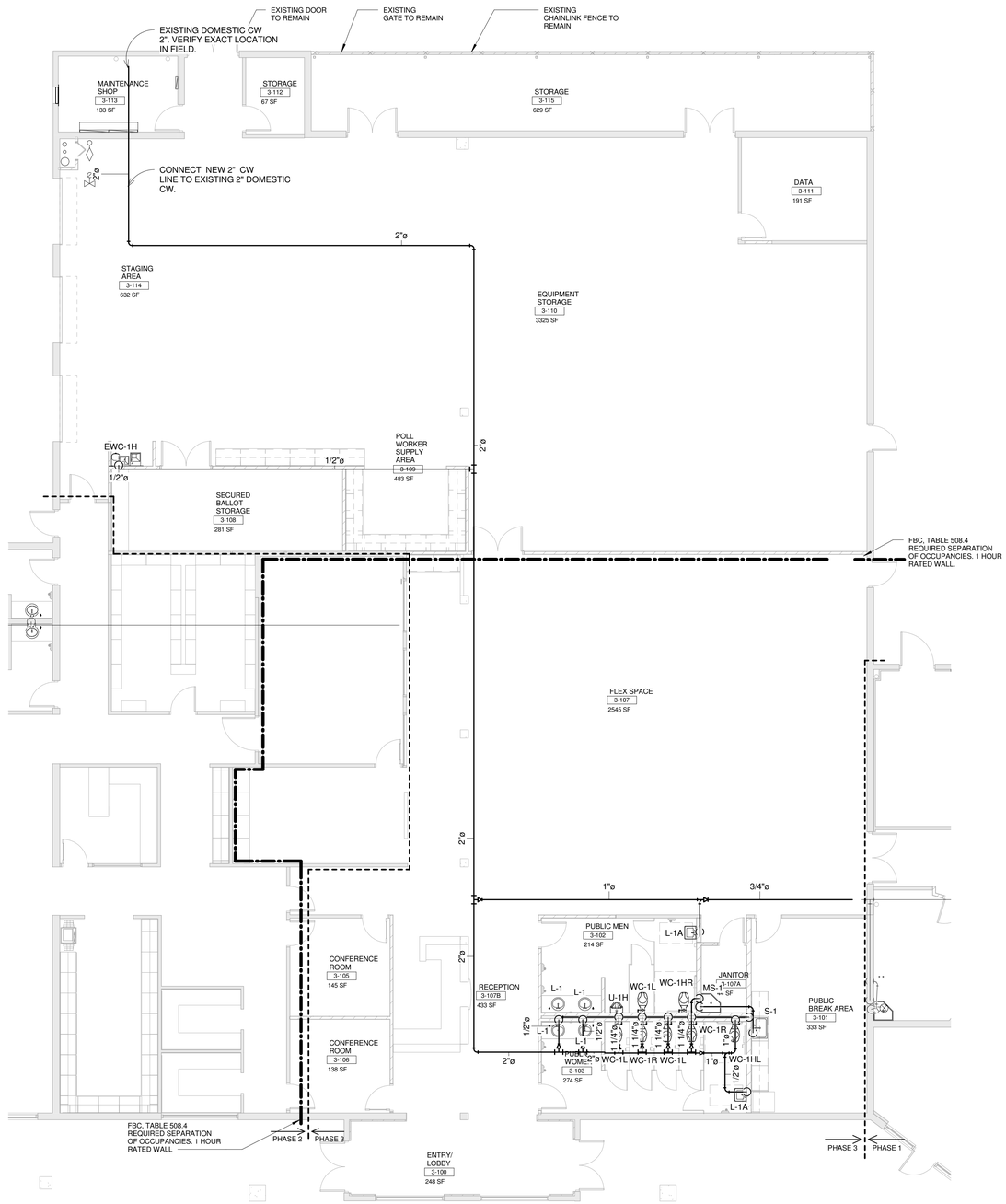

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1/8" = 1'-0"

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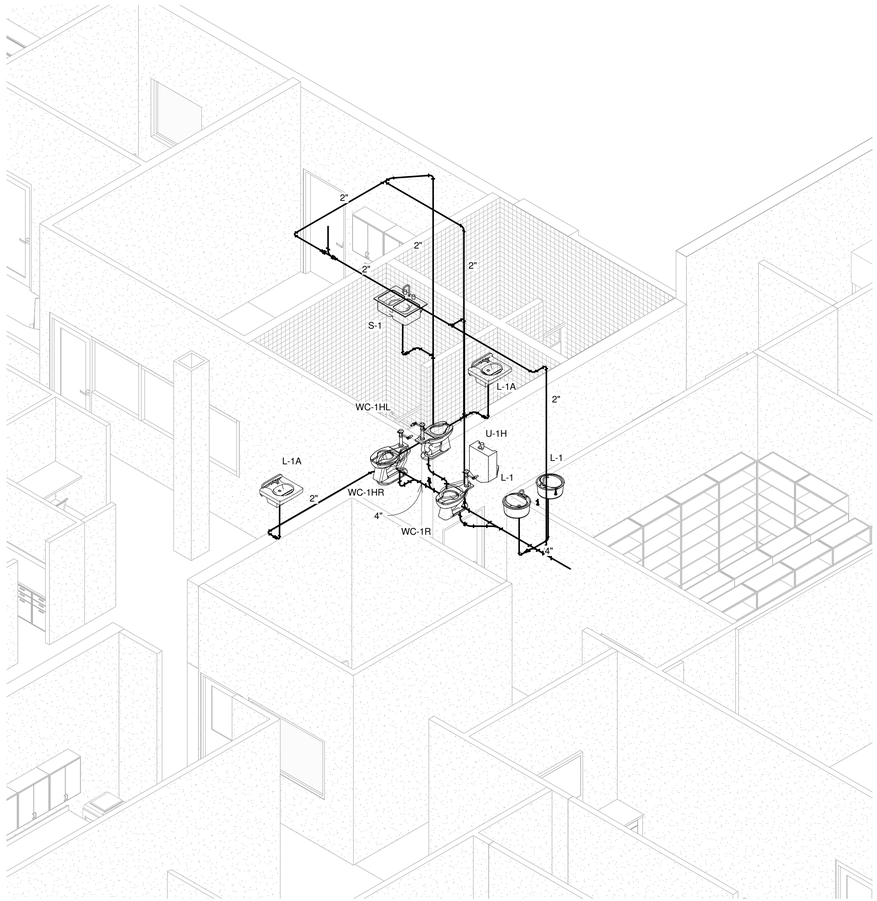

1 SANITARY SEWER RISER PHASE II

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SANITARY SEWER RISER DIAGRAM PHASE II

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CONSTRUCTION DOCUMENTS

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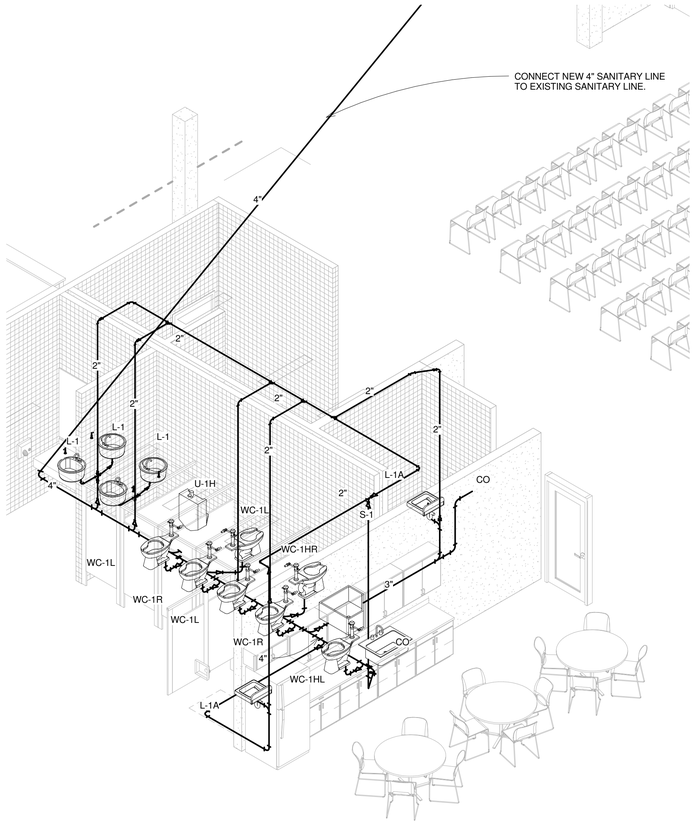
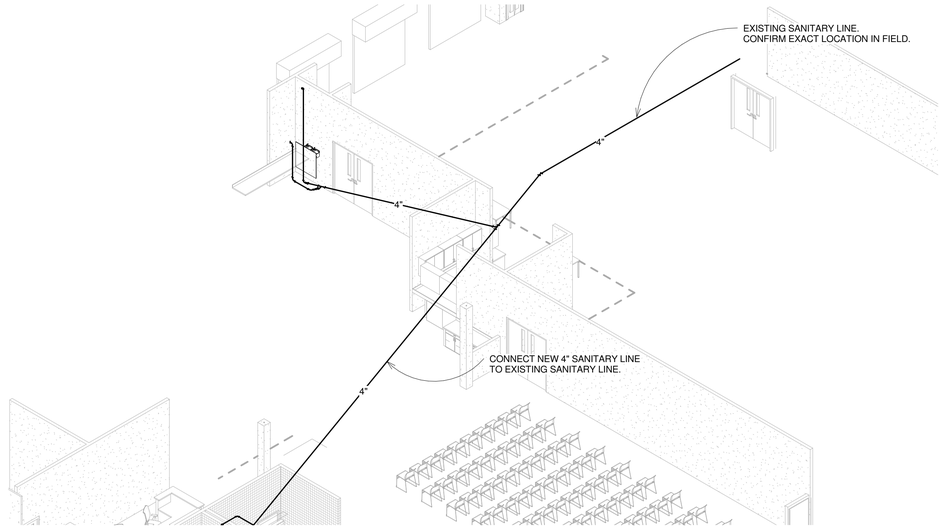


PARTIAL SANITARY SEWER RISER
PHASE III

1



PARTIAL SANITARY SEWER RISER
PHASE III

2

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

SANITARY SEWER RISER DIAGRAM PHASE III

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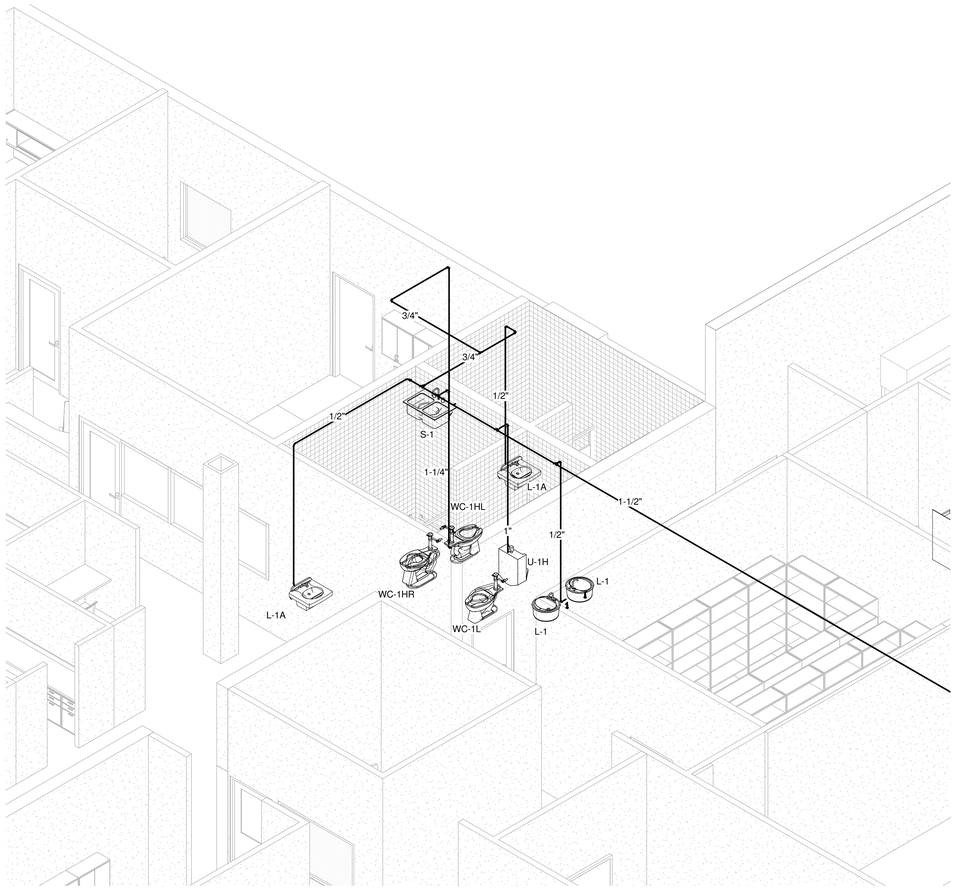

1 DOMESTIC WATER RISER PHASE II

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

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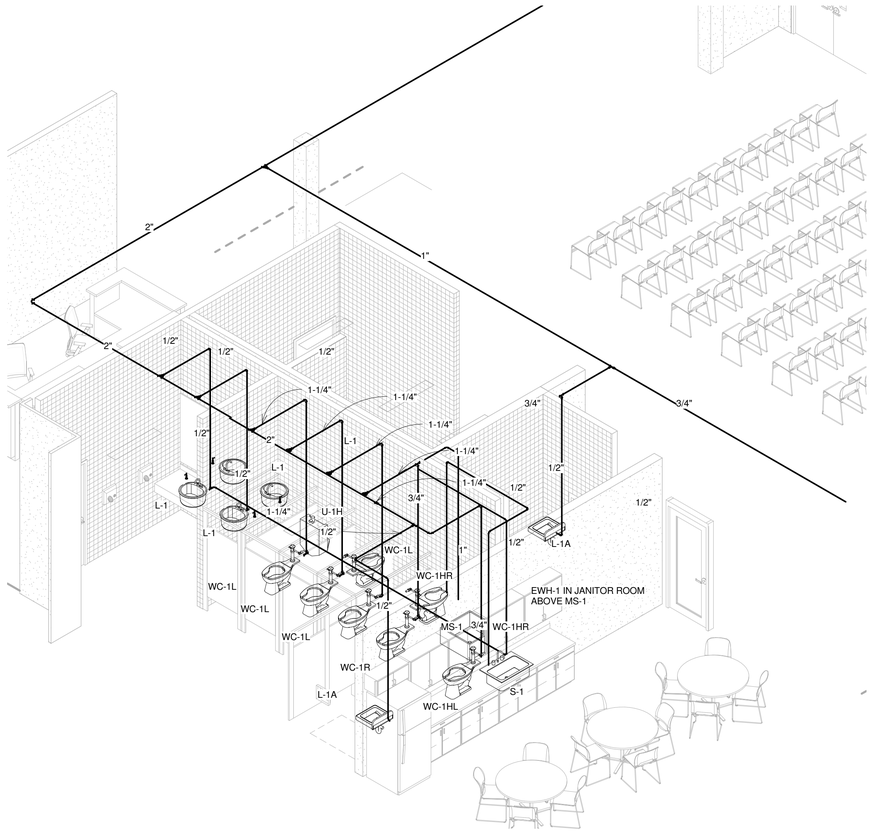
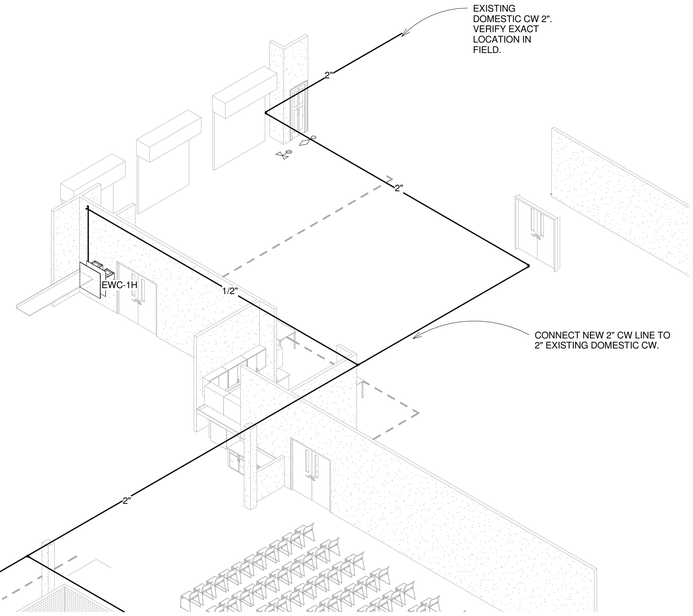


1 PARTIAL DOMESTIC WATER RISER
PHASE III



2 PARTIAL DOMESTIC WATER RISER
PHASE III

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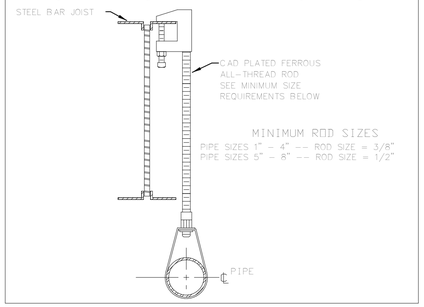
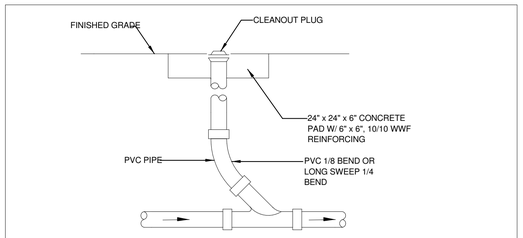
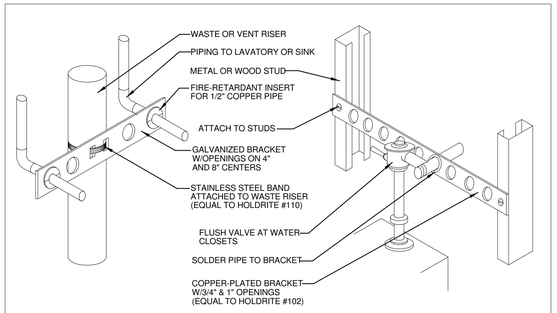
PIPE SUPPORT
TOP BEAM CLAMP WITH RING HANGER

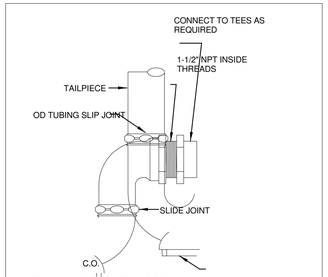




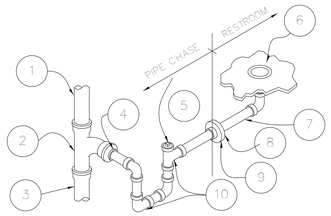
CLEANOUT TO GRADE DETAIL
NOT TO SCALE



WATER PIPING SUPPORTS DETAIL
NOT TO SCALE



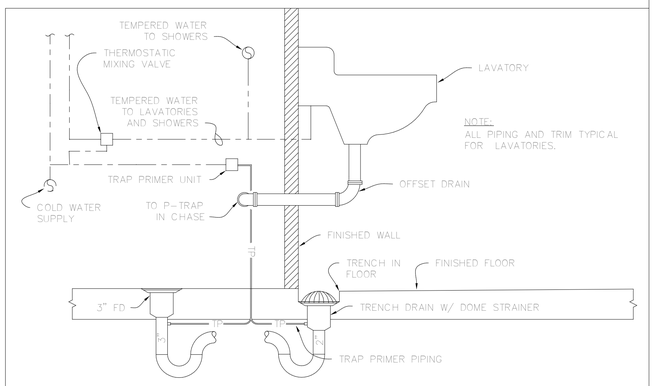
P-TRAP DETAIL
NOT TO SCALE



DETAIL NOTES:

1 – VENT LINE.
2 – SANITARY TEE.
3 – SANITARY LINE.
4 – ADAPTOR.
5 – DWV THREADED FITTING ADAPTOR WITH BRONZE SQUARE HEAD CLEAN-OUT PLUG.
6 – LAVATORY BOWL.
7 – OFFSET DRAIN LINE.
8 – ESCUTCHEON PLATE.
9 – WALL OPENING.
10 – 1-1/4" WROUGHT COPPER FITTINGS AS REQUIRED TO FORM SERVICEABLE TRAP.

LAVATORY PIPING AND TRAP CLEAN-OUT DETAIL
NOT TO SCALE



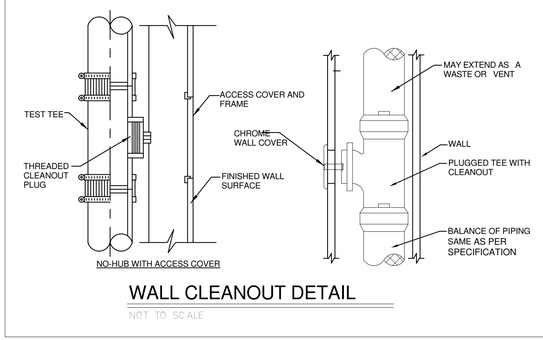
TYPICAL LAVATORY FIXTURE DETAIL WITH TRAP PRIMER
NOT TO SCALE

PLUMBING LEGEND

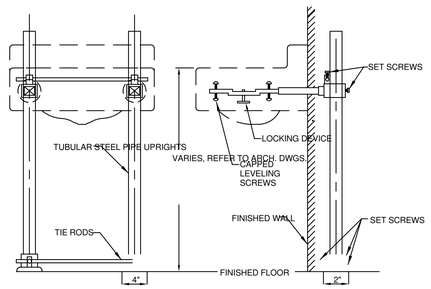
DESCRIPTION	SYMBOL
NEW SANITARY WASTE BELOW SLAB	
NEW SANITARY WASTE ABOVE SLAB	
EXISTING SANITARY WASTE ABOVE SLAB TO REMAIN	
EXISTING SANITARY WASTE BELOW SLAB TO BE REMOVED	
EXISTING SANITARY WASTE TO BE REMOVED	
EXISTING SANITARY WASTE BELOW SLAB TO REMAIN	
NEW VENT	
EXISTING VENT TO REMAIN	
EXISTING VENT TO BE REMOVED	
NEW COLD WATER PIPING	
EXISTING COLD WATER PIPING TO REMAIN	
EXISTING COLD WATER PIPING TO BE REMOVED	
NEW HOT WATER PIPING	
EXISTING HOT WATER PIPING TO REMAIN	
EXISTING HOT WATER PIPING TO BE REMOVED	
NEW HOT WATER RECIRCULATION PIPING	
EXISTING HOT WATER RECIRCULATION PIPING TO REMAIN	
EXISTING HOT RECIRCULATION WATER PIPING TO BE REMOVED	
NEW GREASE/WASTE PIPING	G.W.
EXISTING GREASE/WASTE PIPING	G.W.
EXISTING GREASE/WASTE PIPING TO BE REMOVED	G.W.
TRAP PRIMER PIPING	TP
TRAP PRIMER	TP
BACK WATER VALVE	
SHUT-OFF VALVE	
SHUT-OFF VALVE	
EX. 2 HR FIRE SMOKE WALL	
EX. 1 HR FIRE WALL	
SMOKE DECK	
EXISTING PLUMBING FIXTURES TO REMAIN	
EXISTING PLUMBING FIXTURES TO BE REMOVED	
POINT OF CONNECTION TO EXISTING SYSTEM	
PIPE PENETRATION THROUGH FINISHED FLOOR	
NEW TO EXISTING CONNECTION	

ABBREVIATIONS

COLD WATER SYSTEM	C.W.
HOT WATER SYSTEM (120°F)	H.W.
INDIRECT DRAIN PIPING	I.D.
EXISTING	EX.
FINISHED FLOOR ELEVATION.	F.F.E.
BELOW FLOOR	B.F.L.
ABOVE CEILING	A.C.L.
TEMPERATURE & PRESSURE RELIEF VALVE	T&P
UNLESS OTHERWISE NOTED	U.O.N.
CIVIL ENGINEER	C.E.
PLUMBING CONTRACTOR	P.C.
GENERAL CONTRACTOR	G.C.
HOSE-BIBB	HB



WALL CLEANOUT DETAIL
NOT TO SCALE



NOTE: CARRIER WITH CONCEALED ARMS TO BE RATED FOR 250 LBS. OF LOAD APPLIED TO THE FRONT EDGE OF THE FIXTURE.

LAVATORY CARRIER DETAIL
NOT TO SCALE

1 PLUMBING DETAILS 1
NOT TO SCALE

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

PLUMBING DETAILS

Project No.	2013019.06
Drawn By	ACG
Checked By	MAS
Date	09.29.14

Revisions:

"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

CONSTRUCTION DOCUMENTS

P9.1

Job Number: 4096.13.00
GLOBAL SANCHEZ, INC
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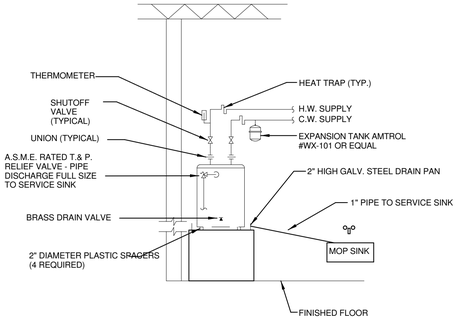
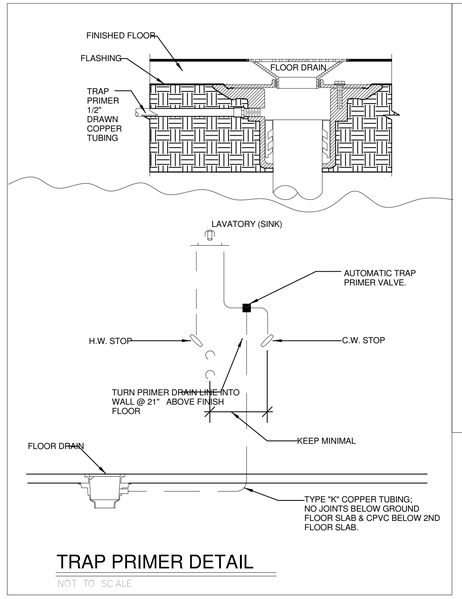


NOTE:
PROVIDE HEATS AS PER ENERGY CODE 412.1.ABC.2.1.3

ELEVATION VIEW

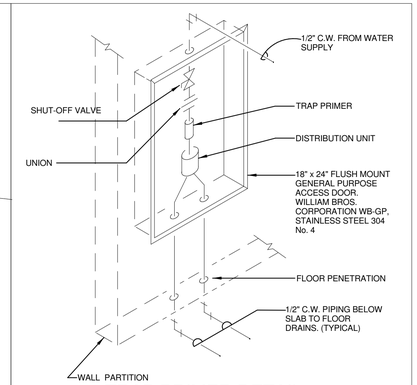
WALL HUNG WATER HEATER DETAIL

NOT TO SCALE



TRAP PRIMER DETAIL

NOT TO SCALE



TRAP PRIMER DETAIL

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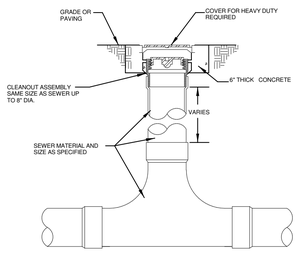
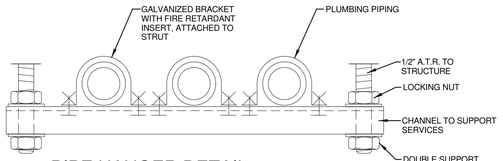


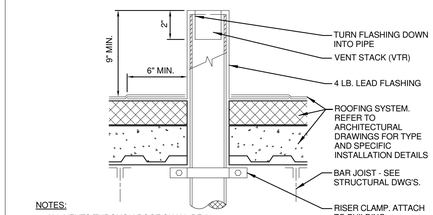
2-WAY GRADE CLEANOUT

NOT TO SCALE



PIPE HANGER DETAIL

NOT TO SCALE



NOTES:
1. ALL VENTS THROUGH ROOF SHALL BE A MIN. OF 10'-0" FROM OUTSIDE AIR INTAKES.
2. ALL VENTS THROUGH ROOF FLASHING SHALL BE BY METAL ROOF MANUFACTURER.

VTR DETAIL

NOT TO SCALE

1 PLUMBING DETAILS 2
1/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

P9.2

Job Number: 4096.13.00

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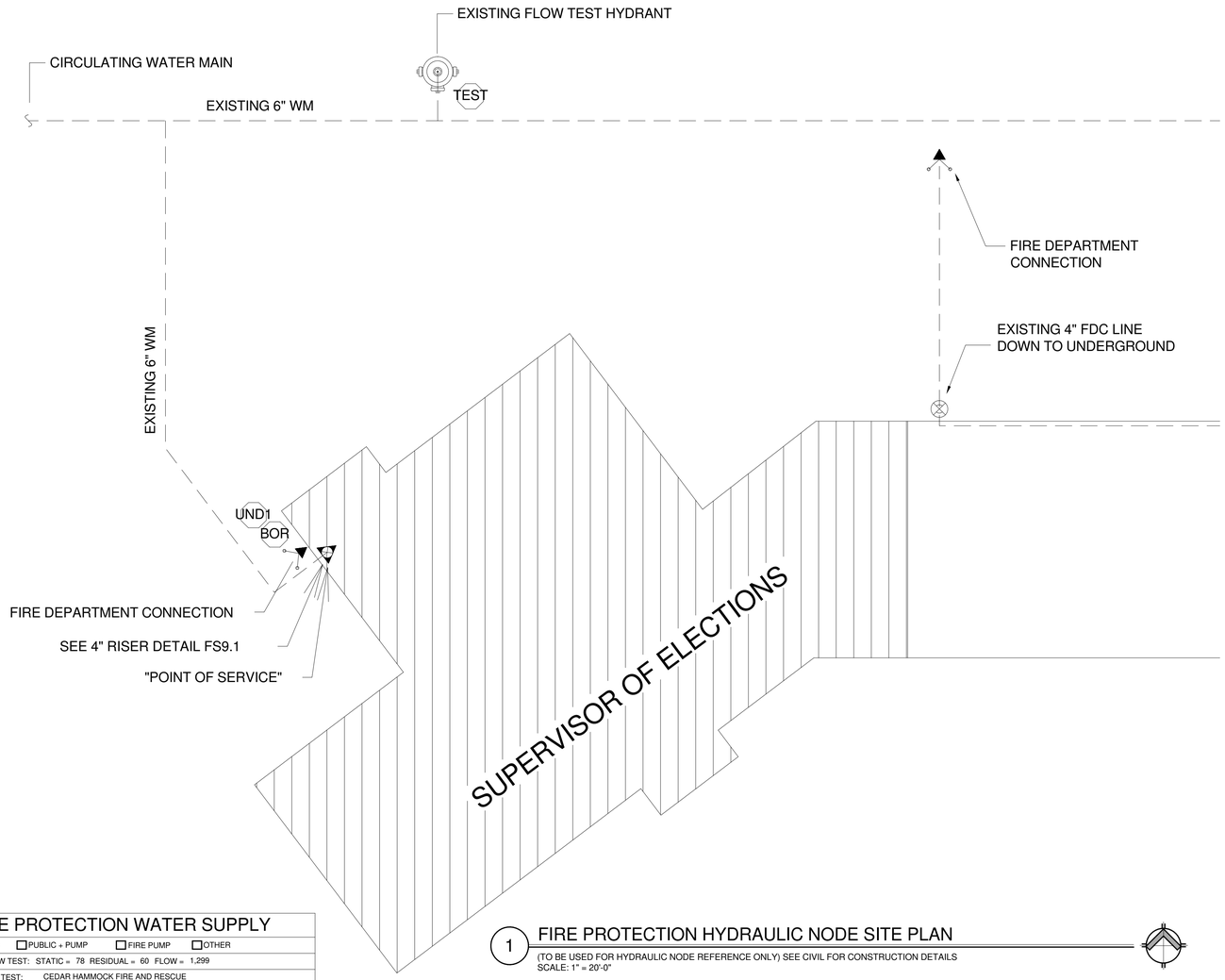

1 FIRE PROTECTION HYDRAULIC NODE SITE PLAN

(TO BE USED FOR HYDRAULIC NODE REFERENCE ONLY) SEE CIVIL FOR CONSTRUCTION DETAILS
SCALE: 1" = 20'-0"

FIRE PROTECTION WATER SUPPLY

☒ PUBLIC ☐ PUBLIC + PUMP ☐ FIRE PUMP ☐ OTHER	
PUBLIC FLOW TEST: STATIC = 78 RESIDUAL = 60 FLOW = 1,299	
SOURCE OF TEST: CEDAR HAMMOCK FIRE AND RESCUE	
DATE OF TEST: 12-18-13 12:19 PM	
TEST LOCATION: SEE SITE PLAN	
FIRE PUMP DATA: N/A RATED GPM = N/A RATED PSI = N/A	
STORAGE TANK SIZE: N/A	MISC. NOTE:

MINIMUM DESIGN CRITERIA (PER NFPA 13, 2007 EDITION)

CALCULATION ID #	MAX. CEILING HEIGHT	% RED. IN DESIGN AREA = -3x/2 + 55 (x=CEILING HEIGHT) (PER FIGURE 11.2.3.2.3.1)	INCREASE FOR SLOPES OVER 2:12 (SECTION 11.2.3.2.4)	MIN. ALLOWABLE DESIGN AREA (COMBINED PER 11.2.3.2.7, STARTING AT 1500 SQ.FT.)
4114-1	16'-8"	-30%	+0% (FLAT CEILING ON THIS CALC)	1,050 SQ. FT.
4114-2	10'-0"	-40%	+0% (FLAT CEILING ON THIS CALC)	900 SQ. FT.

FIRE SPRINKLER SHEET INDEX

HYDRAULIC DESIGN DATA

SYSTEM OR CALC. ID.	SPECIFIC AREA PROTECTED	DENSITY (GPM/SQ. FT.)	DESIGN AREA (SQ. FT.)	HOSE ALLOW. (GPM) INSIDE/OUTSIDE	NUMBER OF HEADS CALCULATED	OCCUPANCY CLASSIFICATION	WATER DEMAND AT NODE 'TEST' INCLUDING HOSE DEMAND (GPM @ PSI)	WATER DEMAND AT THE BASE OF THE RISER (GPM @ PSI)	SAFETY FACTOR (PSI)
4114-1	TRAINING ROOM	0.10	1,052	0 / 100	8	LIGHT HAZARD	290.4 GPM @ 52.1 PSI	190.5 GPM @ 52.1 PSI	24.8
4114-2	EQUIPMENT STORAGE	0.20	1,114	0 / 250	11	ORDINARY HAZARD 2	548.0 GPM @ 47.9 PSI	298.0 GPM @ 47.6 PSI	26.4

SPRINKLER HEADS - BASIS OF DESIGN

MANUF.	MODEL	TYPE	RESPONSE	"K"	ORIFICE	NPT	MANUFACTURER SPRK ID #	TEMP.	FINISH	SYMBOL	QTY.	COMMENTS
TYCO	TY-FRB	RECESSED PENDENT	QUICK	5.6	½"	½"	TY323	155°F	WHITE	⦿	132	POSITION DEFLECTOR 12" BELOW TOP OF STEEL
TYCO	TY-FRB	UPRIGHT	QUICK	5.6	½"	½"	TY313	200°F	BRASS	○	48	POSITION DEFLECTOR 12" BELOW TOP OF STEEL
PROVIDE CABINETS, SPARE HEADS & HEAD WRENCHES FOR EACH HEAD TYPE PER NFPA 13 - EXCLUDING DRY PENDENTS AND DRY SIDEWALLS											180	
THE SPRINKLER HEAD COUNT SHOWN ON THIS PLAN SHALL BE CONSIDERED APPROXIMATE UNTIL VERIFIED BY THE CONTRACTOR. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER'S ATTENTION												

FIRE SPRINKLER SPECIFICATIONS

PART 1 - GENERAL

0.01 GENERAL SCOPE

A. THIS PROJECT INVOLVES THE DEMOLITION OF THE EXISTING FIRE SPRINKLER SYSTEM AND THE INSTALLATION OF A NEW FIRE SPRINKLER SYSTEM IN THREE PHASES FOR THE REMODEL OF THE SUPERVISOR OF ELECTIONS SUITE.

B. PHASE 1 - DEMO ALL FIRE SPRINKLER HEADS, DROPS AND BRANCH LINES BACK TO 2-1/2 " AND 4" MAIN. PLUG ALL OUTLETS ON MAIN. RAISE EXISTING 2-1/2" TO 11'-6" AND 10'-11" FOR NEW CEILING. INSTALL NEW 1-1/2 " LINES VIA MECHANICAL TEES. MAINTAIN EXISTING 2-1/2" CONNECTION TO EXISTING 4" MAIN IN PHASE 3 AREA.

C. PHASE 2 - DEMO ALL FIRE SPRINKLER HEADS, DROPS AND BRANCH LINES BACK TO 2-1/2 " AND 4" MAIN. PLUG ALL OUTLETS ON MAIN. DEMO ALL FIRE SPRINKLER HEADS, DROPS AND BRANCH LINES ON EAST SIDE OF PHASE 2. RAISE EXISTING 2-1/2 " AND 4" MAIN TO 11'-6" FOR NEW CEILING. INSTALL NEW 1-1/2 " LINES VIA MECHANICAL TEES FOR WEST SIDE. EXTEND 2-1/2 " MAIN TO EAST SIDE OF PHASE 2 FOR NEW SPRINKLER SYSTEM. MAINTAIN EXISTING 2-1/2 " CONNECTION TO EXISTING 4" MAIN IN PHASE 3 AREA.

D. PHASE 3 - DEMO ALL FIRE SPRINKLER HEADS, DROPS, BRANCH LINES AND MAINS BACK TO TOP OF RISER AND INSTALL NEW FIRE SPRINKLER SYSTEM. INSTALL NEW 4" MAIN FIRST TO CONNECT THE EXISTING 2-1/2" MAINS FROM PHASES 1 AND 2.

E. STORAGE AREAS : THESE AREAS ARE TO BE PROTECTED AS AN ORDINARY HAZARD GROUP 2 OCCUPANCY. QUICK RESPONSE SPRINKLER HEADS ARE TO BE USED THROUGH OUT. A DESIGN DENSITY OF 0.20 GPM/SQ.FT. OVER THE HYDRAULICALLY MOST REMOTE AREA HAS BEEN CALCULATED. A 100 GPM HOSE STREAM HAS BEEN INCLUDED IN THE CALCULATIONS

F. OFFICE AREAS : THESE AREAS ARE TO BE PROTECTED AS A LIGHT HAZARD OCCUPANCY. QUICK RESPONSE SPRINKLER HEADS ARE TO BE USED THROUGH OUT. A DESIGN DENSITY OF 0.10 GPM/SQ.FT. OVER THE HYDRAULICALLY MOST REMOTE AREA HAS BEEN CALCULATED. A 100 GPM HOSE STREAM HAS BEEN INCLUDED IN THE CALCULATIONS

G. STORAGE/MECHANICAL/KITCHEN : THESE AREAS ARE TO BE PROTECTED A ORDINARY HAZARD GROUP 1. QUICK RESPONSE SPRINKLER HEADS ARE TO BE USED THROUGH OUT THESE AREAS. NO SPRINKLER CALCULATIONS WERE PERFORMED DUE TO THE RELATIVELY SMALL AREA THESE ROOMS REPRESENTS.

H. THIS AREA IS NOT SPECIFICALLY KNOWN TO HAVE PROBLEMS WITH MICROBIAL INDUCED CORROSION. NO PREVENTATIVE MEASURES HAVE BEEN TAKEN. INTERNAL INSPECTIONS AS REQUIRED BY NFPA 25 (2008 EDITION) MUST BE CONDUCTED BY THE OWNER OR OWNERS CONTRACTOR TO ENSURE THAT NO M.I.C. ACTIVITY IS PRESENT. SHOULD SUCH ACTIVITY BE FOUND AT A LATER DATE, REMEDIAL TREATMENT MAY BE REQUIRED.

I. THE STRUCTURAL SUPPORT SYSTEMS FOR THIS BUILDING SHALL HAVE ADEQUATE LOAD CARRYING CAPACITY OF 3-PSF DEAD LOAD AND THE LIVE LOAD, WHICH WILL BE CONTRIBUTED BY THE FIRE SPRINKLER SYSTEM.

J. THE DURATION OF THE WATER SUPPLY WILL MAINTAIN THE MINIMUM 60-90 MINUTE REQUIREMENT OF NFPA-13 TABLE 11.2.3.1.1.

1.01 GENERAL DOCUMENTS

A. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE INTENT OF NFPA-13 (2007 EDITION), THE 2010 FLORIDA FIRE PREVENTION CODE AND/OR THE REQUIREMENT OF THE AUTHORITY HAVING JURISDICTION.

B. THE FIRE SPRINKLER WORK SHALL INCLUDE FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND SERVICE NECESSARY FOR AND REASONABLY INCIDENTAL TO THE PROPER COMPLETION OF ALL FIRE SPRINKLER WORK SHOWN ON THE DRAWINGS AND AS SPECIFIED. ALL MATERIAL SHALL BE NEW.

C. A SEPARATE PERMIT SHALL BE REQUIRED FOR THE FIRE SPRINKLER WORK.

D. THE FIRE SPRINKLER CONTRACTOR SHALL OBTAIN THE OWNERS CERTIFICATE PRIOR TO COMMENCEMENT OF WORK AS DEFINED IN NFPA 13 - 4.3 (2007 EDITION).

1.02 SHOP DRAWINGS AND SUBMITTALS

A. THE FIRE SPRINKLER CONTRACTOR SHALL PREPARE A "MATERIAL SUBMITTAL PACKAGE", AND SUBMIT TO THE ENGINEER AND AUTHORITY HAVING JURISDICTION, FOR APPROVAL.THE FIRE SPRINKLER CONTRACTOR MAY ELECT TO RESUBMIT THE ENGINEERING DRAWINGS WITH ITS COMPANY INFORMATION SUBSTITUTED FOR THE ENGINEER OF RECORD, ALONG WITH ADDED FABRICATION AND COORDINATION NOTES, IF REQUIRED. THE USE OF THE ENGINEERS DRAWINGS FOR SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR FIELD COORDINATION AS WOULD BE REQUIRED IF IT HAD PRODUCED SHOP DRAWINGS FROM SCRATCH. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES AND IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES SO THAT A RESOLUTION CAN BE FORMULATED. THE ENGINEER OF RECORD MAY FURNISH THE FIRE SPRINKLER CONTRACTOR WITH AUTOCAD VERSION 2004 DRAWINGS PREPARED WITH HYDRACAD SPRINKLER DESIGN SOFTWARE FOR USE IN MAKING WORKING DRAWINGS AND AS-BUILTS.THE ENGINEER WILL NOT CONVERT THE DRAWINGS TO AUTOCAD 14 OR EARLIER RELEASES OF AUTOCAD. ENGINEER SHALL NOT SIGN AND SEAL ANY SHOP DRAWINGS CREATED BY CONTRACTOR.

B. THE ENGINEER OF RECORD HAS SIGNED AND SEALED HYDRAULIC CALCULATIONS FOR THIS INSTALLATION.

C. THE FIRE PROTECTION ENGINEER OF RECORD MAY FURNISH THE FIRE SPRINKLER CONTRACTOR, UP TO FOUR (4) SETS OF ENGINEERING DRAWING BLUEPRINTS BEARING THE SEAL OF THE ENGINEER, FOR PERMITTING DRAWINGS, IF REQUESTED BY THE CONTRACTOR WITHIN 170 CALENDAR DAYS OF THE DATE OF THE FLOW TEST ON THESE DRAWINGS. IF THIS TIME PERIOD HAS EXPIRED AND THE CONTRACTOR WISHES TO OBTAIN SIGNED AND SEALED DRAWINGS FROM THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NEW FLOW INFORMATION AND PROVIDING SUCH TO ENGINEER. ENGINEER RESERVES THE RIGHT TO WITNESS FLOW TEST. IF EXTENSIVE DRAWING AND CALCULATION MODIFICATIONS ARE REQUIRED AS A RESULT OF THE NEW FLOW DATA, CONTRACTOR SHALL BE RESPONSIBLE FOR ASSOCIATED COST AT ADDITIONAL SERVICES RATES PROPOSED BY ENGINEER TO ITS CLIENT ON THIS PROJECT.

D. CONTRACTOR SUBMITTALS WHICH DEVIATE FROM THE DESIGN SHOWN IN THIS PLAN SET SHALL BE CONSIDERED A MATERIAL DEVIATION.

E. ALL MATERIAL DEVIATIONS REQUIRE THE APPROVAL OF THE ENGINEER OF RECORD AND THE LOCAL AUTHORITY HAVING JURISDICTION.

F. SPRINKLER HEADS SHOWN ON THIS SHEET OR IN THIS PLAN SET SHALL BE THE BASIS OF THE DESIGN. IF ALTERNATES TO THE BASIS OF DESIGN ARE SUBMITTED, THE CONTRACTOR SHALL PROVIDE A CLEAR, DETAILED SUMMARY IN THE SUBMITTALS OF THE DIFFERENCES BETWEEN THE SUBMITTED EQUIPMENT AND THE BASIS OF DESIGN. THE ENGINEER MAY ACCEPT OR REJECT THE ALTERNATES. EQUAL HEADS BY OTHER MANUFACTURERS WILL BE EVALUATED AND APPROVED IF FUNCTIONALLY EQUIVALENT.

1.03 RECORD DRAWINGS

A. THE FIRE SPRINKLER CONTRACTOR IS REQUIRED TO MAINTAIN A COMPLETE AND ACCURATE AS-BUILT DRAWING SET. UPON FINAL COMPLETION OF THE PROJECT, THE FIRE SPRINKLER CONTRACTOR SHALL SUPPLY THE OWNER WITH AN AS-BUILT SET AND THE ENGINEER OF RECORD WITH UPDATED AUTOCAD FILES PRIOR TO FINAL PAYMENT.

PART 2 - INSTALLATION

2.01 MATERIALS

A. ALL FIRE PROTECTION EQUIPMENT AND MATERIALS SHALL BE U.L. LISTED (WHEN APPLICABLE).

B. ALL THREADED FITTINGS ARE TO BE CLASS 125 CAST IRON OR CLASS 150 MALLEABLE IRON.

C. GROOVED FITTINGS ARE TO BE UL LISTED FOR FIRE PROTECTION SERVICE AND RATED FOR 175 PSI SERVICE.

D. ALL THREADED PIPE (1-1/2" AND SMALLER, U.N.O.) IS TO BE SCHEDULE 40, BLACK, OR SCHEDULE 30. USE OF THREADABLE LIGHTWALL PIPE WITH THREADED FITTINGS SHALL NOT BE PERMITTED UNLESS THE PIPE HAS A U.L. CORROSION RESISTANCE RATIO OF 1.0 OR GREATER.

E. GROOVED PIPE (2" AND LARGER, U.N.O.) SHALL BE SCHEDULE 10, IN ACCORDANCE WITH NFPA-13 AND ASTM A 795 UNLESS NOTED OTHERWISE.

F. EXTERIOR PIPING AND NORMALLY EMPTY PIPE (DRAINS, ETC.), SHALL BE SCHEDULE 40 GALVANIZED PIPE WITH GROOVED OR THREADED GALVANIZED FITTINGS.

G. ALL HANGERS TO BE ACCORDANCE WITH NFPA-13.TRAPEZE HANGER SHALL BE UTILIZED WHERE NECESSARY TO COMPLY WITH THE HANGER SPACING OF NFPA 13.

PART 3 - EXECUTION

3.01 INSTALLATION

A. INSTALLATION SHALL CONFORM TO NFPA-13 (2007 EDITION) AND THE 2010 FLORIDA FIRE PREVENTION CODE AND APPLICABLE REQUIREMENTS OF THE REFERENCED CODES. DEVIATIONS OR ABNORMAL CONDITIONS THAT WOULD RESULT IN NON-CODE OR STANDARD COMPLIANCE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING FOR ASSISTANCE IN THE RESOLUTION OF THE PROBLEM.

B. A NOMINAL QUANTITY OF ADDITIONAL SPRINKLERS MAY BE REQUIRED TO CORRECT FIELD OBSTRUCTIONS OR PARTITION CHANGES. THE FIRE SPRINKLER SHALL INSTALL THE THE REQUIRED ADDITIONAL HEADS FOR A FLAT RATE OF 150 DOLLARS PER HEAD (INCLUDES MATERIAL, LABOR, ND MARKUP).

C. ALL PENETRATIONS THROUGH RATED WALLS/FLOORS SHALL BE FIRE STOPPED/WATERPROOFED TO MATCH THE RATING OF THE WALL/FLOOR.

D. INSTALL ALL SIGNAGE PER NFPA 13 INCLUDING, BUT NOT LIMITED TO, ALL INSPECTORS TEST AND DRAINS, MAIN DRAINS, AND AUXILIARY DRAINS.

E. THE FIRE SPRINKLERS FOR THIS DESIGN ARE NOT CENTER OF TILE ALTHOUGH HEADS ARE SHOWN THAT WAY IN THE DESIGN. HEADS SHALL BE LOCATED +/- 8" AS SHOWN ON PLAN.

3.02 TESTING

A. THE FIRE SPRINKLER SYSTEM SHALL BE PRESSURE TESTED AT 200 PSI FOR 2 HOURS IN ACCORDANCE WITH NFPA 13.THE SYSTEM SHALL MAINTAIN THE TEST PRESSURE FOR THE REQUIRED PERIOD WITHOUT LOSS. ALL REQUIREMENTS OF CHAPTER 16 OF NFPA 13 "SYSTEM ACCEPTANCE" SHALL BE COMPLETED BY THE INSTALLING FIRE SPRINKLER CONTRACTOR.

3.03 FINAL INSPECTION

A. THE CONTRACTOR SHALL PROVIDE A COPY OF NFPA 25 AND MANUFACTURERS EQUIPMENT AND MAINTENANCE CUTSHEETS TO THE OWNER, UPON COMPLETION OF THE WORK AND AS PART OF THE APPLICATION FOR PAYMENT.

B. CONTRACTOR'S MATERIAL AND TEST CERTIFICATION DOCUMENTS SHALL BE COMPLETED FOR THIS PROJECT AND DELIVERED TO THE AUTHORITY MAKING THE FINAL INSPECTION.

3.04 WARRANTY

A. THE FIRE SPRINKLER CONTRACTOR SHALL WARRANT ITS WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE OF ALL WORK.

3.05 IMPAIRMENTS

A. BEFORE SHUTTING OFF A SECTION OF THE FIRE SERVICE SYSTEM TO MAKE SPRINKLER SYSTEM CONNECTIONS, NOTIFY THE AUTHORITY HAVING JURISDICTION, PLAN THE WORK CAREFULLY, AND ASSEMBLE ALL MATERIALS TO MINIMIZE DOWN TIME.

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

FIRE SPRINKLER SPECIFICATIONS

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Date	09.29.14

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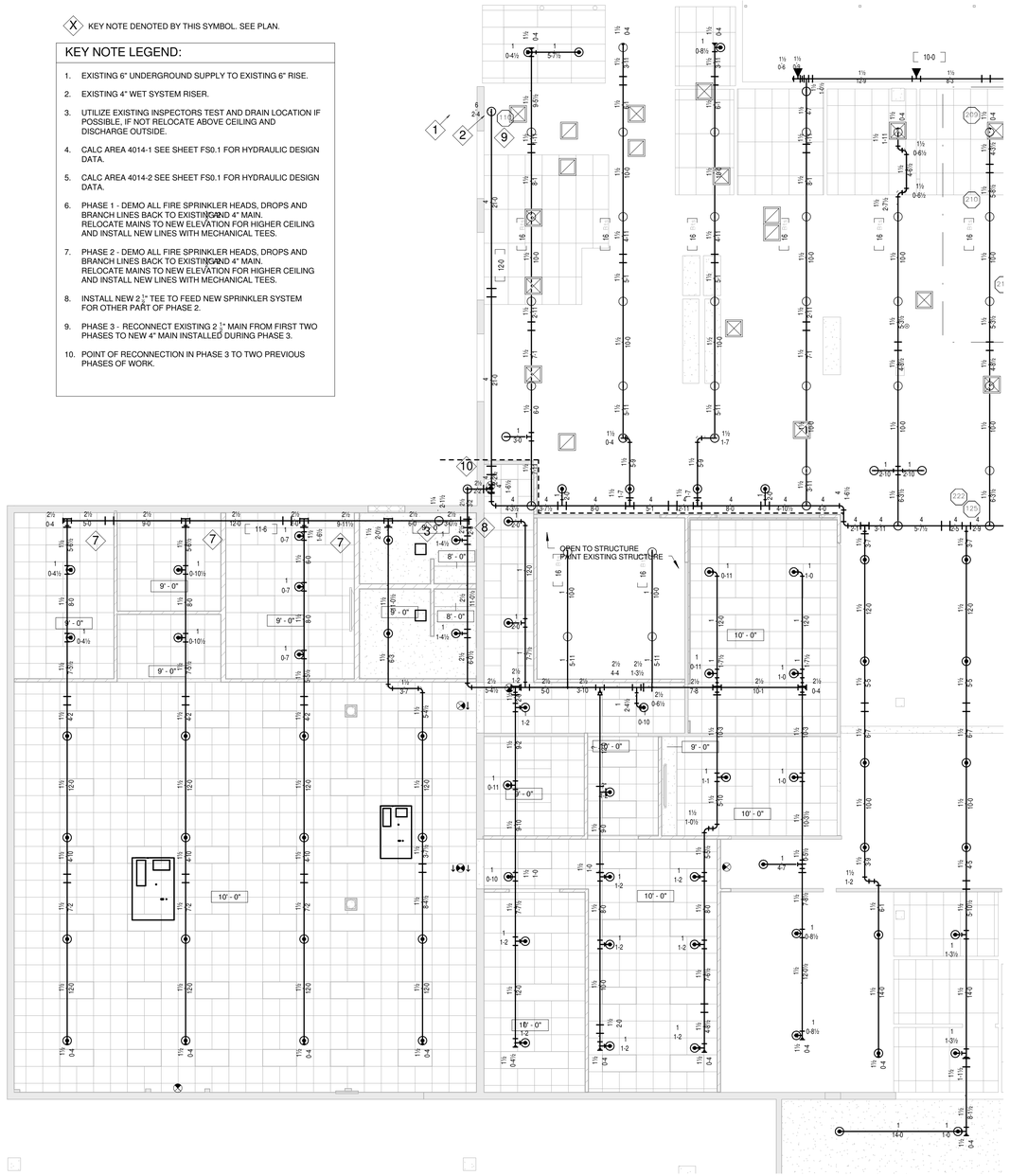
X KEY NOTE DENOTED BY THIS SYMBOL. SEE PLAN.

KEY NOTE LEGEND:

1. EXISTING 6" UNDERGROUND SUPPLY TO EXISTING 6" RISE.
2. EXISTING 4" WET SYSTEM RISER.
3. UTILIZE EXISTING INSPECTORS TEST AND DRAIN LOCATION IF POSSIBLE, IF NOT RELOCATE ABOVE CEILING AND DISCHARGE OUTSIDE.
4. CALC AREA 4014-1 SEE SHEET FS0.1 FOR HYDRAULIC DESIGN DATA.
5. CALC AREA 4014-2 SEE SHEET FS0.1 FOR HYDRAULIC DESIGN DATA.
6. PHASE 1 - DEMO ALL FIRE SPRINKLER HEADS, DROPS AND BRANCH LINES BACK TO EXISTING 6" AND 4" MAIN. RELOCATE MAINS TO NEW ELEVATION FOR HIGHER CEILING AND INSTALL NEW LINES WITH MECHANICAL TEES.
7. PHASE 2 - DEMO ALL FIRE SPRINKLER HEADS, DROPS AND BRANCH LINES BACK TO EXISTING 6" AND 4" MAIN. RELOCATE MAINS TO NEW ELEVATION FOR HIGHER CEILING AND INSTALL NEW LINES WITH MECHANICAL TEES.
8. INSTALL NEW 2 ½" TEE TO FEED NEW SPRINKLER SYSTEM FOR OTHER PART OF PHASE 2.
9. PHASE 3 - RECONNECT EXISTING 2 ½" MAIN FROM FIRST TWO PHASES TO NEW 4" MAIN INSTALLED DURING PHASE 3.
10. POINT OF RECONNECTION IN PHASE 3 TO TWO PREVIOUS PHASES OF WORK.



1 FIRE SPRINKLER PLAN PHASE II
1/8" = 1'-0"

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

FIRE SPRINKLER PLAN PHASE II

Project No.	2013019.06
Drawn By	Author
Checked By	Checker
Date	09.29.14

Revisions:

"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

CONSTRUCTION DOCUMENTS

FS4.2

Job Number: 4096.13.00

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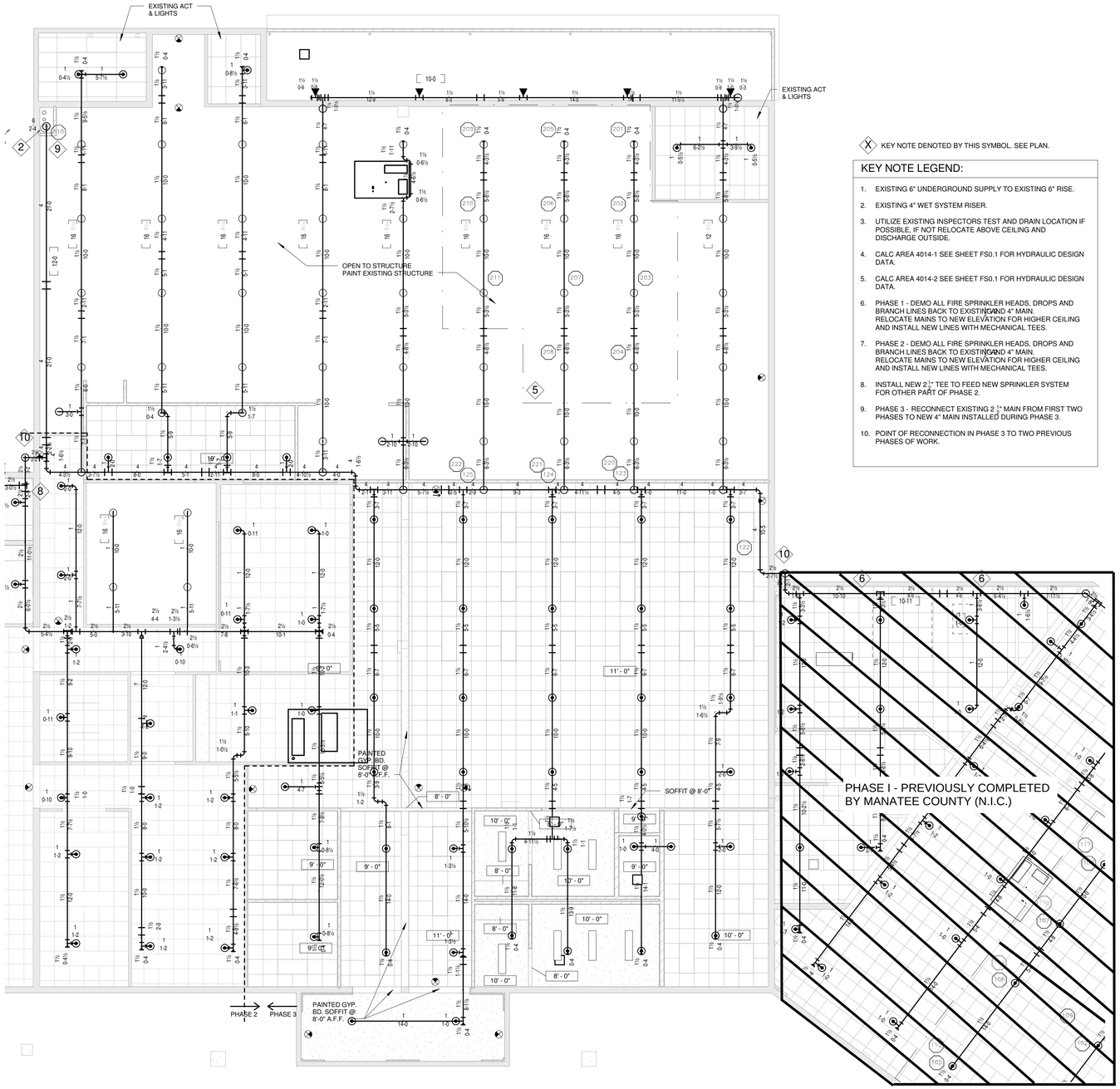

1 FIRE SPRINKLER PLAN PHASE III
1/8" = 1'-0"

X KEY NOTE DENOTED BY THIS SYMBOL. SEE PLAN.

KEY NOTE LEGEND:

1. EXISTING 6" UNDERGROUND SUPPLY TO EXISTING 6" RISE.
2. EXISTING 4" WET SYSTEM RISER.
3. UTILIZE EXISTING INSPECTORS TEST AND DRAIN LOCATION IF POSSIBLE, IF NOT RELOCATE ABOVE CEILING AND DISCHARGE OUTSIDE.
4. CALC AREA 4014-1 SEE SHEET FS0.1 FOR HYDRAULIC DESIGN DATA.
5. CALC AREA 4014-2 SEE SHEET FS0.1 FOR HYDRAULIC DESIGN DATA.
6. PHASE 1 - DEMO ALL FIRE SPRINKLER HEADS, DROPS AND BRANCH LINES BACK TO EXISTING 4" MAIN. RELOCATE MAINS TO NEW ELEVATION FOR HIGHER CEILING AND INSTALL NEW LINES WITH MECHANICAL TEES.
7. PHASE 2 - DEMO ALL FIRE SPRINKLER HEADS, DROPS AND BRANCH LINES BACK TO EXISTING 4" MAIN. RELOCATE MAINS TO NEW ELEVATION FOR HIGHER CEILING AND INSTALL NEW LINES WITH MECHANICAL TEES.
8. INSTALL NEW 2 1/2" TEE TO FEED NEW SPRINKLER SYSTEM FOR OTHER PART OF PHASE 2.
9. PHASE 3 - RECONNECT EXISTING 2 1/2" MAIN FROM FIRST TWO PHASES TO NEW 4" MAIN INSTALLED DURING PHASE 3.
10. POINT OF RECONNECTION IN PHASE 3 TO TWO PREVIOUS PHASES OF WORK.

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

FIRE SPRINKLER PLAN PHASE III

Project No.	2013019.06
Drawn By	Author
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Date	09.29.14

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CONSTRUCTION DOCUMENTS

FS4.3

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Job Number: 4096.13.00

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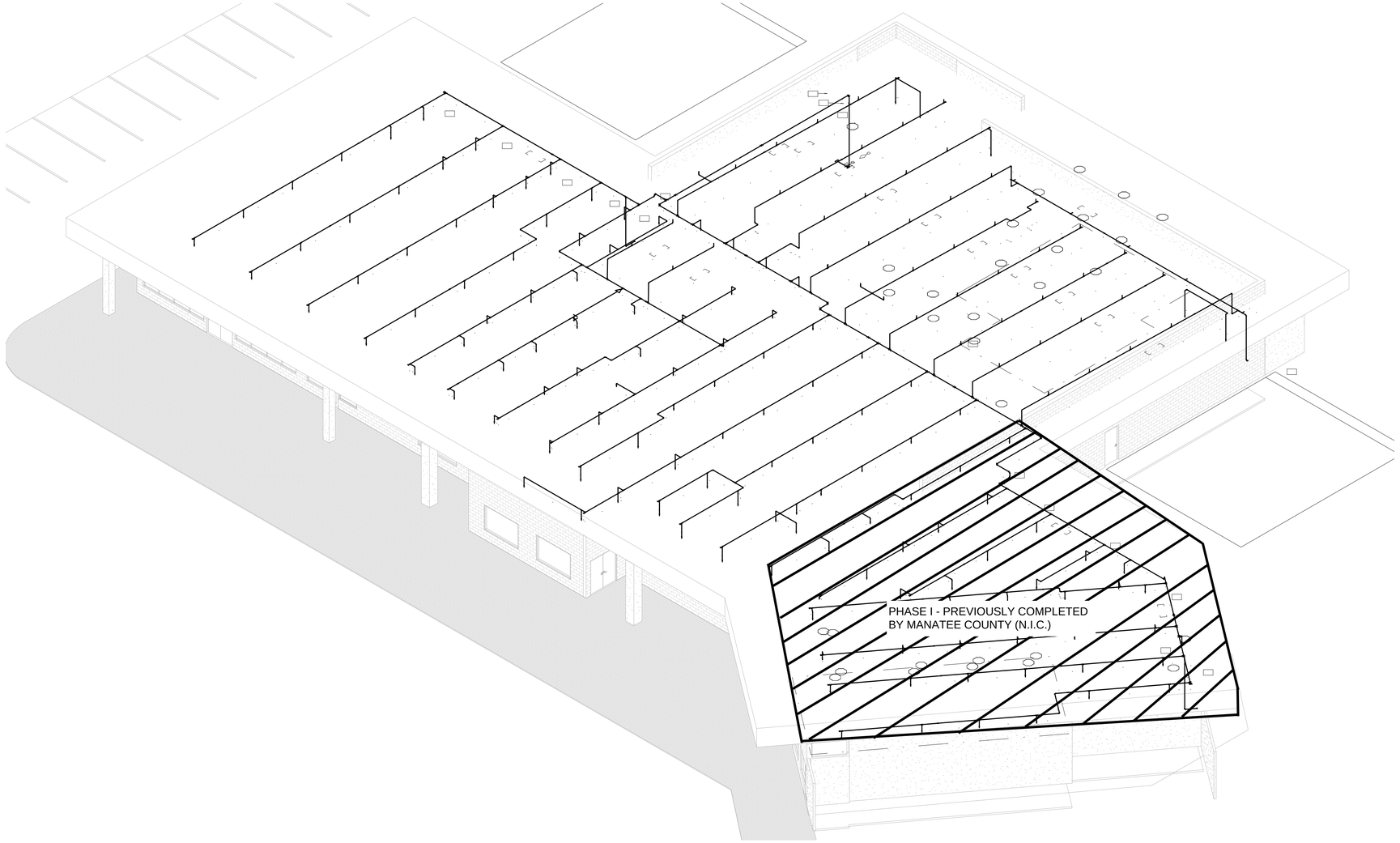

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

FIRE SPRINKLER ISOMETRIC

Project No.	2013019.06
Drawn By	Author
Checked By	Checker
Date	09.29.14

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CONSTRUCTION DOCUMENTS

FS5.1

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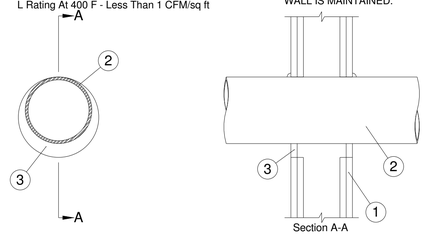
1 & 2 HOUR GYP. WALL PENETRATION SEAL

System No. W-L-1049
(Formerly System No. 635)
F-Rating - 1 and 2 Hr (See Item 1B)
T-Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft

SPECIFIED TECHNOLOGIES INC. (STI) DETAIL IS SHOWN. AN EQUAL FIRE STOPPING SYSTEM MAY BE USED AS LONG AS THE RATING OF THE FLOOR / WALL IS MAINTAINED.



NOTES:

1. GYPSUM BOARD WALL ASSEMBLY

2. THROUGH PENETRATE - ONE METALLIC PIPE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN FIRESTOP SYSTEM.

3. FILL, VOID OR CAVITY MATERIAL - SEALANT - MIN. 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT OF CONTACT LOCATION BETWEEN THE THROUGH PENETRATE AND GYPSUM WALLBOARD, A MIN. 3/8" DIA. BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE GYPSUM WALLBOARD/THROUGH PENETRATE INTERFACE ON BOTH SURFACES OF WALL. SPECIFIED TECHNOLOGIES - SPECSEAL 100, 101, 102 OR 105 SEALANT.

NTS

1 OR 2 HOUR MASONRY WALL FIRE STOPPING
UL SYSTEM NO. WJ1035

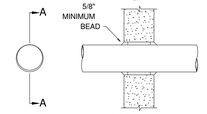
SYSTEM INDEX DESCRIPTION:
NFPA 13 SPRINKLER SYSTEM
APPLICATION: MAX.. 4 IN. STEEL PIPE W/ CHAULK ONLY

CONSTRUCTION:
CONCRETE / MASONRY WALL
PENETRANT: BARE METALLIC PIPE

SEALANT MATERIAL / METHOD:
PRIMARY PRODUCT USED: STI SPECSEAL 100 INTUMESCENT SEALANT
SEALING METHOD: CHAULK AND WALK

1. 2 HR. RATED MASONRY WALL ASSY.

2. SPECSEAL 100 SILICONE SEALANT INSTALLED TO 5/8" DEPTH FLUSH WITH BOTH SURFACES OF THE WALL

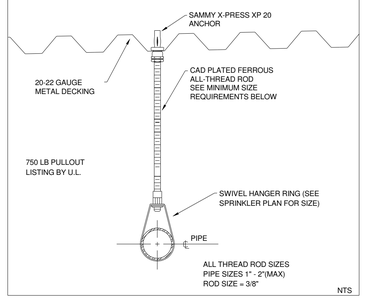


SECTION A - A

NO SCALE

PIPE SUPPORT - SAMMY SCREW

SAMMY X-PRESS XP 20 ANCHOR



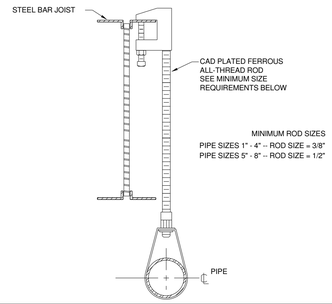
NTS

TRAPEZE MEMBER SIZING CHART

SUPPORTED PIPE SIZE	MAX TRAPEZE SPAN	TRAPEZE MEMBER MATERIAL
1	8'-0"	2" SCH. 40 PIPE
1 1/4	8'-0"	2" SCH. 40 PIPE
1 1/2	8'-0"	2" SCH. 40 PIPE
2	8'-0"	2" SCH. 40 PIPE
2 1/2	7'-0"	2" SCH. 40 PIPE
2 1/2	8'-0"	2 1/2" SCH. 40 PIPE
3	6'-0"	2" SCH. 40 PIPE
3	8'-0"	2 1/2" SCH 40 PIPE
4	5'-0"	2" SCH. 40 PIPE
4	8'-0"	2 1/2" SCH 40 PIPE
6	3'-0"	2" SCH. 40 PIPE
6	5'-0"	2 1/2" SCH. 40 PIPE
6	7'-0"	2 1/2" SCH. 40 PIPE
6	10'-0"	3" SCH. 40 PIPE

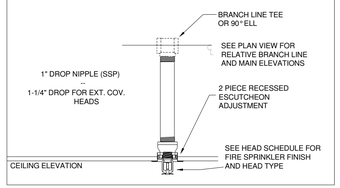
PIPE SUPPORT - TYPE S01

TOP BEAM CLAMP WITH RING HANGER

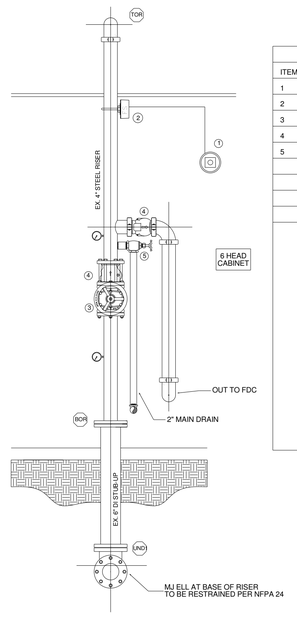


NTS

TYP. RECESSED PENDENT



EX. 6" DUCTILE IRON STUB-UP X 4" EX. FIRE SPRINKLER RISER DETAIL



SCALE: 1/2" = 1'-0

MATERIAL DESCRIPTION

ITEM #	DESCRIPTION
1	6" 120 VAC ELECTRIC BELL W/ WEATHERPROOF BOX
2	4" VANE TYPE WATER FLOW SWITCH (POTTER VSR-F-4)
3	4" OS&Y GATE VALVE
4	4" CHECK VALVE
5	2" MAIN DRAIN

RISER GENERAL NOTES:

1. ALL OUTSIDE STEEL PIPING EXTENDING THROUGH THE EXTERIOR WALL SHALL BE GALVANIZED WITH GALVANIZED FITTINGS.
2. ALL GROOVED COUPLINGS SHALL BE OF THE "RIGID" TYPE.
3. ALL DIMENSIONS SHOWN ARE CENTER-TO-CENTER DIMENSIONS AND SHALL BE FIELD VERIFIED BEFORE FABRICATION AND INSTALLATION.
4. ALL ELECTRICAL WIRING SHALL BE PERFORMED BY OTHERS.
5. INSTALL ELECTRIC BELL ON OUTSIDE WALL.
6. PIPE DIMENSIONS SHOWN ARE FOR THE VALVES AND DEVICES SPECIFIED USING STANDARD GROOVED FITTINGS.
7. FIRE SPRINKLER CONTRACTOR TO INSTALL FLOW SWITCHES AND MOUNT TAMPER SWITCHES ON VALVES, FA CONTRACTOR TO WIRE.

FIRE SPRINKLER SYMBOL LEGEND

Symbol	Description	Symbol	Description
3" / 10-6	Pipe Size / Pipe Length in Feet-Inches	10'-0	Ceiling Height Designation
			Denotes Hanger Location
	Hydraulic Reference Points	UP 1 x 1-0	Denotes Rise Up or Down (Center-to-Center Unless Fabricated)
[18 Bts]	Pipe Elev. Below Top of Steel		Standard Grooved Coupling
[8-9	Pipe Elev. Above Finished Floor	F L	"Firelock" Grooved Coupling
+ TOS 20-0	Elev. of Top of Steel		Piping Cap
+ BOS 20-0	Elev. of Bottom of Steel		Piping Plug
+ TOB 20-0	Elev. of Top of Beam		Fire Sprinkler Riser Location
+ BOB 20-0	Elev. of Bottom of Beam		
+ TOJ 20-0	Elev. of Top of Joist		
+ BOJ 20-0	Elev. of Bottom of Joist		
+ TOG 20-0	Elev. of Top of Joist Girder		
+ BOG 20-0	Elev. of Bottom of Joist Girder	# L01	Line Tag (Only if Stocklisted)
+ TOW20-0	Elev. of Top of Wood Truss		
+ BOW20-0	Elev. of Bottom of Wood Truss	A.1 ->	Main Tag (Only if Stocklisted)

IMPORTANT FITTING TAKE-OUT NOTES:

1). WHEN GROOVED ELLS AND TEES ARE SHOWN CUT-IN ON THE MAINS AND/OR BRANCH LINES, THE GROOVED FITTING TAKE-OUT HAS BEEN REMOVED FROM THE ADJACENT PIPING DIMENSION TAG.

2). ALL ELEVATION CHANGES INDICATED BY A RISER NIPPLE, OR RISE UP/DN, ARE CENTER-TO-CENTER DIMENSIONS UNLESS CUT-LENGTH DIMENSIONS ARE SPECIFICALLY SHOWN. IN OTHER WORDS, NO TAKE-OUTS HAVE BEEN REMOVED FROM THE RISER NIPPLES OR RISERS (UP OR DOWN). THIS INCLUDES BOTH SCREWED AND GROOVED PIPING ELEVATION CHANGES.

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

FIRE SPRINKLER SECTIONS & DETAILS

Project No.	2013019.06
Drawn By	Author
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CONSTRUCTION DOCUMENTS

FS9.1

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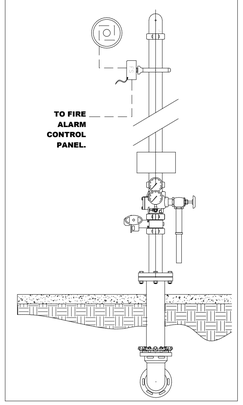
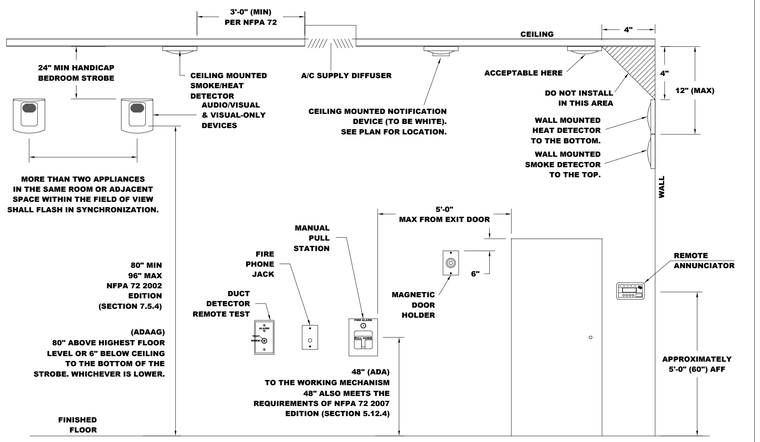
STANDARD FIRE ALARM ABBREVIATIONS

A	AMPS
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITY ACT
AH	AMP HOUR
AWG	WIRE SIZE (GAUGE)
cd	CANDELA (STROBE INTENSITY)
CFM	CUBIC FEET PER MINUTE (AIR FLOW)
CLASS	CIRCUIT CONFIGURATION (A OR B)
DC	DIRECT CURRENT
DH	MAGNETIC DOOR HOLDER
EOL	END OF LINE RESISTOR
EMF	ELECTROMAGNETIC FORCE
EMT	METAL ELECTRICAL CONDUIT
FORM-C	RELAY
FPL	FIRE POWER LIMITED
FACP	FIRE ALARM CONTROL PANEL
FWR	FULL WAVE RECTIFIED
GF	GROUND FAULT
IDC	INITIATING DEVICE CIRCUIT
LED	LIGHT EMITTING DIODE
mA	MILLIAMPS (CURRENT)
NAC	NOTIFICATION APPLIANCE CIRCUIT
NEC	NATIONAL ELECTRICAL CODE
NC	NORMALLY CLOSED RELAY CONTACT
NO	NORMALLY OPEN RELAY CONTACT
NPL	NON POWER LIMITED
PL	POWER LIMITED
POTS	PLAIN OLD TELEPHONE SERVICE
PS	POWER SUPPLY
RFI	RADIO FREQUENCYINTERFERENCE
RJ45	TELEPHONE JACK CONNECTION
SLC	SIGNALING LINE CIRCUIT
TS	FIRE VALVE TAMPER SWITCH
TSP	TWISTED SHIELDED PAIR
uA	MICROAMPS
V	VOLTS
VA	VOLT AMPS (POWER)
W	WATTS (POWER)
WFS	FIRE SPRINKLER WATERFLOW SWITCH

FIRE SPRINKLER RISER BELL DETAIL



FIRE ALARM DEVICE MOUNTING GUIDE



IMPORTANT NOTE

NOT ALL DEVICES SHOWN ON THIS DETAIL APPLY TO THIS PROJECT. SEE THE PLAN VIEW LAYOUT OF THE FIRE ALARM SYSTEM TO VERIFY WHICH DEVICES APPLY, AND WHICH DO NOT.

NOTE

CHECK WITH MANUFACTURE'S INSTALLATION SHEET FOR THE EXACT ROUGH-IN HEIGHTS, LOCATION OF BACK BOXES, AND WIRING REQUIREMENTS.

FIRE ALARM SPECIFICATIONS

PART 1 - GENERAL

0.01 GENERAL SCOPE

A. THIS PROJECT CONSISTS OF MODIFICATIONS TO EXISTING FIRE ALARM SYSTEM.

B. OCCUPANCY TYPE: MERCANTILE.

1.01 GENERAL DOCUMENTS

A. THESE PLANS WERE PREPARED WITH THE INTENT OF NFPA 72 (2007 ED.) AND/OR THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.

B. THE FIRE ALARM WORK SHALL INCLUDE FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND SERVICE NECESSARY FOR AND REASONABLY INCIDENTAL TO THE PROPER COMPLETION OF ALL FIRE ALARM WORK SHOWN ON THE DRAWINGS AND AS SPECIFIED. ALL MATERIAL SHALL BE NEW.

C. THIS SUBMITTAL IS NOT A COMPLETE DESIGN. ONLY THE REQUIREMENTS OF 61G15-32.008 AND 61G15-33.006.

1.02 SHOP DRAWINGS AND SUBMITTALS

A. THE FIRE ALARM CONTRACTOR SHALL PREPARE A COMPLETE SET OF FIRE ALARM SHOP DRAWINGS FOR ALL AREAS IN WHICH THE ENGINEER DOES NOT PROVIDE A COMPLETE DESIGN. THE SHOP DRAWINGS SHALL BE PREPARED WITH THE LEVEL OF DETAIL REQUIRED IN NFPA 72 AND SHALL BE REVIEWED FOR CONFORMANCE TO THOSE REQUIREMENTS BY THE ENGINEER OF RECORD. THE SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER AND STAMPED "APPROVED", "APPROVED AS NOTED", OR "REJECTED". THE ENGINEER SHALL NOT SIGN AND SEAL ANY SHOP DRAWINGS (IN VIOLATION OF STATE LAW).

B. THE CONTRACTOR SHALL COMPLETE VOLTAGE DROP/LOAD CALCULATIONS FOR ANY MODIFIED CIRCUITS.

C. THE CONTRACTOR SHALL PROVIDE ADDITIONAL POWER SUPPLIES AS NEEDED FOR ALL CIRCUITS TO PASS VOLTAGE DROP/LOAD CALCULATIONS.

D. THE FIRE PROTECTION ENGINEER OF RECORD MAY FURNISH THE FIRE ALARM CONTRACTOR, UP TO FOUR (4) SETS OF 61G15 ENGINEERING DOCUMENTS BEARING THE SEAL OF THE ENGINEER, FOR PERMITTING. CONTRACTOR SUBMITTALS WHICH DEVIATE FROM THE DESIGN SHOWN IN THIS PLAN SET SHALL BE CONSIDERED A MATERIAL DEVIATION.

E. MATERIALS OR PRODUCTS SPECIFIED HEREIN AND/OR INDICATED ON DRAWINGS BY TRADE NAME, MANUFACTURER'S NAME OR CATALOG NUMBERS SHALL BE INTERPRETED AS ESTABLISHING A STANDARD OF QUALITY AND DESIGN.

F. THE FIRE ALARM CONTRACTOR SHALL NOT SUBSTITUTE DEVICES OR EQUIPMENT, DOWN SIZE WIRING OR DELETE EQUIPMENT SHOWN IN THIS PLAN SET WITHOUT THE ENGINEERS APPROVAL AND THE WRITTEN APPROVAL OF PROJECT MANAGER FOR THE OWNER.

1.03 RECORD DRAWINGS

A. THE ALARM CONTRACTOR SHALL BE REQUIRED TO SUBMIT A "RECORD OF COMPLETION", PER NFPA 72 AND THE FLORIDA ADMINISTRATIVE RULE 69OA-48, TO THE OWNER PRIOR TO FINAL PAYMENT.

B. THE FIRE ALARM CONTRACTOR IS REQUIRED TO MAINTAIN A COMPLETE AND ACCURATE AS-BUILT DRAWING SET. UPON FINAL COMPLETION OF THE PROJECT, THE FIRE ALARM CONTRACTOR SHALL SUPPLY THE OWNER WITH AN AS-BUILT SET PRIOR TO FINAL PAYMENT. AN AS-BUILT SET OF DRAWINGS SHALL BE POSTED AT THE FIRE ALARM PANEL AT THE COMPLETION OF THE WORK.

C. THE AS-BUILT DRAWINGS SHALL INCLUDE DEVICE NUMBERS AS PROGRAMMED INTO THE PANEL FOR ALL INITIATION AND NAC DEVICES AS REQUIRED BY STATE FIRE MARSHAL RULE 69A-48.007(1).

PART 2 - INSTALLATION

2.01 SPECIFIC REQUIREMENTS

A. SECONDARY POWER SHALL CONSIST OF RECHARGEABLE BATTERIES HAVING A CAPACITY TO POWER THE ALARM SYSTEM FOR A PERIOD OF 24 HOURS IN A STANDBY MODE AND OPERATE ALL NOTIFICATION APPLIANCES FOR 5 MINUTES AT THE END OF THE 24 HOUR PERIOD.

B. THE ALARM SYSTEM HAS BEEN DESIGNED WITH A CLASS "B" SIGNALING LINE CIRCUIT (SLC). THE NOTIFICATION ALARM CIRCUITS (NAC) HAVE BEEN DESIGNED FOR CLASS "B" OPERATION. THE SLC IS POWER LIMITED.THE SMOKE DETECTORS SHALL NOT BE INSTALLED PRIOR TO THE SYSTEM PROGRAMMING AND TEST PERIOD. IF CONSTRUCTION IS ONGOING BURING THIS PERIOD, MEASURES SHALL BE TAKEN TO PROTECT THE SMOKE DETECTOR FROM CONTAMINATION AND PHYSICAL DAMAGE UNTIL CONSTRUCTION ACTIVITIES ARE COMPLETE.

C. ALL EXPOSED RISERS TO THE FACP, AUXILIARY POWER SUPPLIES, INITIATING DEVICES AND/OR NOTIFICATION APPLIANCES SHALL BE INSTALLED IN EMT.

D. NOTIFICATION HORN/STROBES SHALL BE MOUNTED SO THAT THE ENTIRE LENS OF THE DEVICE IS NO LESS THAT 80" AFF AND NO GREATER THAN 96" AFF.

E. ALL NEW ADDRESSABLE PULL STATIONS SHALL BE INSTALLED AT 48 INCHES ABOVE THE FINISH FLOOR TO TOP.

F. ALL WIRING CONNECTIONS SHALL BE IN SINGLE, DOUBLE, TRIPLE OR 4 GANG ELECTRICAL BOXES, AS NEEDED.

G. ALL WIRING ON THE INITIATION AND NOTIFICATION CIRCUITS ARE POWER LIMITED.

2.02 CONDUIT AND WIRE

I. CONDUIT:

A. CONDUIT SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC-70), LOCAL AND STATE REQUIREMENTS. COMPLY WITH ADDITIONAL REQUIREMENTS IN THE DRAWINGS.

B. CONDUIT FILL SHALL NOT EXCEED 40 PERCENT OF INTERIOR CROSS SECTIONAL AREA WHERE THREE OR MORE CABLES ARE CONTAINED WITHIN A SINGLE CONDUIT.

C. CABLE MUST BE SEPARATED FROM ANY OPEN CONDUCTORS OF POWER, OR CLASS 1 CIRCUITS, AND SHALL NOT BE PLACED IN ANY CONDUIT, JUNCTION BOX OR RACEWAY CONTAINING THESE CONDUCTORS.

II. WIRE:

A. ALL FIRE ALARM WIRING SHALL BE FPL TYPE CABLE.

B. WIRING SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND NATIONAL CODES (E.G., NEC ARTICLE 760). NUMBER AND SIZE OF CONDUCTORS SHALL BE AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER, BUT NOT LESS THAN 16 AWG FOR INITIATING DEVICE CIRCUITS AND 14 AWG FOR NOTIFICATION DEVICE CIRCUITS.

C. ALL FIELD WIRING OF INITIATION (AS APPLICABLE) AND NOTIFICATION CIRCUITS ARE TO BE COMPLETELY SUPERVISED BY END OF LINE DEVICES, PER THE MANUFACTURER'S LITERATURE.

D. ALL RISER WIRING AND EXPOSED AREA WIRING FOR THE ALARM SYSTEM SHALL BE IN EMT.

E. TERMINAL BOXES, JUNCTION BOXES AND CABINETS: ALL BOXES AND CABINETS SHALL BE UL LISTED FOR THEIR USE AND PURPOSE.

F. THE FIRE ALARM CONTROL PANEL IS TO BE CONNECTED TO A SEPARATE DEDICATED BRANCH CIRCUIT, MAXIMUM 20 AMPERES. THIS CIRCUIT SHALL BE LABELED AT THE MAIN POWER DISTRIBUTION PANEL AS FIRE ALARM. FIRE ALARM CONTROL PANEL PRIMARY POWER WIRING SHALL BE 12 AWG. THE CONTROL PANEL CABINET SHALL BE GROUNDED SECURELY TO EITHER A CONDUIT, COLD WATER PIPE, OR GROUNDING ROD. A 120 VOLT SURGE SUPPRESSER SHALL BE INSTALLED ON THE AC POWER AND GROUNDED PRIOR TO ENTERING THE FIRE ALARM CONTROL PANEL. THE BREAKER FOR THE ALARM CIRCUIT SHALL BE RED IN COLOR OR PAINTED RED AND SHALL BE PROVIDED WITH A LOCKING TAB INSTALLED TO PREVENT SHUTTING OFF THE BREAKER.

PART 3 - EXECUTION

3.01 INSTALLATION

A. INSTALLATION SHALL BE IN ACCORDANCE WITH THE NEC, NFPA 72, LOCAL AND STATE CODES, AS SHOWN ON THE DRAWINGS, AND AS RECOMMENDED BY THE MAJOR EQUIPMENT MANUFACTURER.

3.02 FINAL INSPECTION

A. AT THE FINAL INSPECTION A FACTORY TRAINED REPRESENTATIVE OF THE INSTALLER SHALL DEMONSTRATE THAT THE SYSTEMS FUNCTION PROPERLY IN EVERY RESPECT. ALL TESTING REQUIRED BY THE AHJ SHALL BE COMPLETED IN THE PRESENCE OF THE LOCAL FIRE AUTHORITY, AS REQUIRED.

3.03 WARRANTY

A. THE FIRE ALARM CONTRACTOR SHALL WARRANT ITS WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE OF ALL WORK.

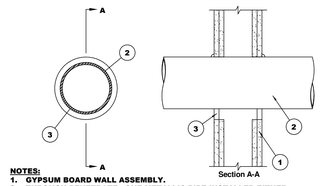
3.04 IMPAIRMENTS

A. BEFORE SHUTTING OFF A SECTION OF THE FIRE ALARM SYSTEM TO MAKE SYSTEM CONNECTIONS, NOTIFY THE AUTHORITY HAVING JURISDICTION, PLAN THE WORK CAREFULLY, AND ASSEMBLE ALL MATERIALS TO MINIMIZE DOWN TIME.

1 & 2 HOUR GYP. WALL PENETRATION SEAL

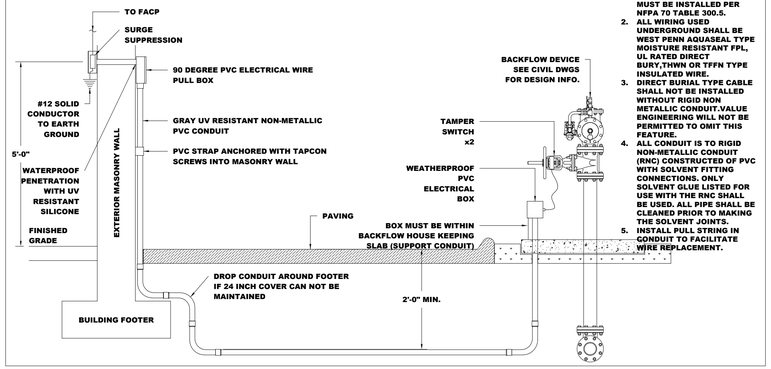
System No. W-L-1049
(Formerly System No. 635)
F-Rating-1 & 2 HOUR (See Item 1B)
T-Rating-0 Hr
L Rating At Ambient-Less Than 1 CFM/sq ft
L Rating At 400°-Less Than 1 CFM/sq ft

SPECIFIED TECHNOLOGIES INC. (STI) DETAIL IS SHOWN. AN EQUAL FIRE STOPPING SYSTEM MAY BE USED AS LONG AS THE RATING OF THE FLOOR / WALL IS MAINTAINED.



NOTES:
1. GYPSUM BOARD WALL ASSEMBLY.
2. THROUGH PENETRATE - ONE METALLIC PIPE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN FIRESTOP SYSTEM.
3. FILL, VOID OR CAVITY MATERIAL-SEALANT-MIN. S/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT OF CONTACT LOCATION BETWEEN THE THROUGH PENETRATE AND GYPSUM WALLBOARD, A MIN. 3/8"Ø BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE GYPSUM WALLBOARD/THROUGH PENETRATE INTERFACE ON BOTH SURFACES OF WALL. SPECIFIED TECHNOLOGIES-SPECSEAL 100, 101, 102 OR 105 SEALANT.

UNDERGROUND FIRE ALARM WIRING ENTRANCE DETAIL OUT TO BACKFLOW DEVICE



GENERAL NOTES:
1. THE FIRE ALARM CABLE MUST BE INSTALLED PER NFPA 70 TABLE 300.5.
2. ALL WIRING USED UNDERGROUND SHALL BE WEST PENN AQUASEAL TYPE MOISTURE RESISTANT FPL, UL RATED DIRECT BURY,THWN OR TFFN TYPE INSULATED WIRE.
3. DIRECT BURIAL TYPE CABLE SHALL NOT BE INSTALLED WITHOUT RIGID NON METALLIC CONDUIT.VALUE ENGINEERING WILL NOT BE PERMITTED TO OMIT THIS FEATURE.
4. ALL CONDUIT IS TO RIGID NON-METALLIC CONDUIT (RNC) CONSTRUCTED OF PVC WITH SOLVENT FITTING CONNECTIONS. ONLY SOLVENT GLUE LISTED FOR USE WITH THE RNC SHALL BE USED. ALL PIPE SHALL BE CLEANED PRIOR TO MAKING THE SOLVENT JOINTS.
5. INSTALL PULL STRING IN CONDUIT TO FACILITATE WIRE REPLACEMENT.

OUTPUTS

PROGRAMMING MATRIX FOR ALL BUILDINGS

INPUTS

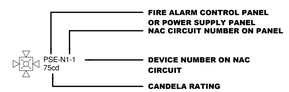
		CONTROL UNIT ANNUNCIATION						NOTIFICATION										SUPPLEMENTARY																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
SMOKE DETECTOR	A		X											X		X						X													
PULL STATION	B		X											X		X						X													
DUCT DETECTOR	C			X				X								X																			
	D																																		
	E																																		
SPRINKLER WATER FLOW	F		X											X		X						X													
SPRINKLER TAMPER SWITCH	G			X				X								X																			
FIRE SPRINKLER BACKFLOW PREVENTER TAMPER SWITCH	H			X				X								X																			
	I																																		
	J																																		
	K																																		
	L																																		
	M																																		
MAIN CONTROL PANEL FUNCTIONS	N																																		
	O																																		
FIRE ALARM LOW BATTERY	P					X		X								X																			
FIRE ALARM AC POWER FAILURE	Q					X		X								X																			
OPEN CIRCUIT	R					X		X								X																			
GROUND FAULT	S					X		X								X																			
NOTIFICATION SHORT CIRCUIT	T					X		X								X																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

PROJECT SPECIFIC NOTES:
1. THIS CHART IS TO BE USED AS A BASIC PROGRAMMING GUIDE ONLY. ALL OTHER PANEL PROGRAMMING FEATURES SHALL COMPLY WITH NFPA 72 AND THE MANUFACTURERS INSTRUCTIONS.

FIRE ALARM WIRE LEGEND

SYMBOL	CIRCUIT DESCRIPTION	WIRE SIZE	WIRE TYPE
A	SIGNALING LINE LOOP	(2) #16	FPLR
D	REMOTE TEST SWITCH	(2) #16	FPLR
E	REMOTE ANNUNCIATOR COMMUNICATIONS	(4) #16	FPLR
I	INITIATING DEVICE CIRCUIT	(2) #16	FPLR
K	REMOTE ANNUNCIATOR COMMUNICATIONS	(6) #16	FPLR
L	---	---	---
M	---	---	---
N	NOTIFICATION APPLIANCE CIRCUIT	(2) #12	FPLR
Q	120 VAC POWER CIRCUIT	(3) #12	THHN
R	24 VDC POWER LIMITED CIRCUIT	(2) #14	FPLR
S	S-BUS	(4) #16	FPLR
U	UNDERGROUND CONDUIT WIRING	(2) #16	TFFN*
X	SPARE WIRE PAIR	(2) #16	FPLR
Y	SPARE WIRE PAIR	(2) #14	FPLR

NAC CIRCUIT NUMBERING SCHEME



SYMBOL LEGEND

- M — PULL STATION
- F — STROBE
- F — HORN/STROBE (WALL OR CEILING, SEE PLANS)
- FLOW SWITCH
- TAMPER SWITCH

FIRE ALARM SHEET INDEX

1 FA0.1
NOT TO SCALE

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

FIRE ALARM SPECIFICATIONS & DETAILS

Project No.	2013019.06
Drawn By	NJH
Checked By	PJF
Date	09.29.14

Revisions:

"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

CONSTRUCTION DOCUMENTS

FA0.1

Originals printed @ 24" x 36" scale as required

Job Number: 4096.13.00

GLOBAL SANCHEZ, INC
BUILDING SYSTEMS ENGINEERING
info@global-sanchez.com CA#: 6237

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Bradenton, FL 34208
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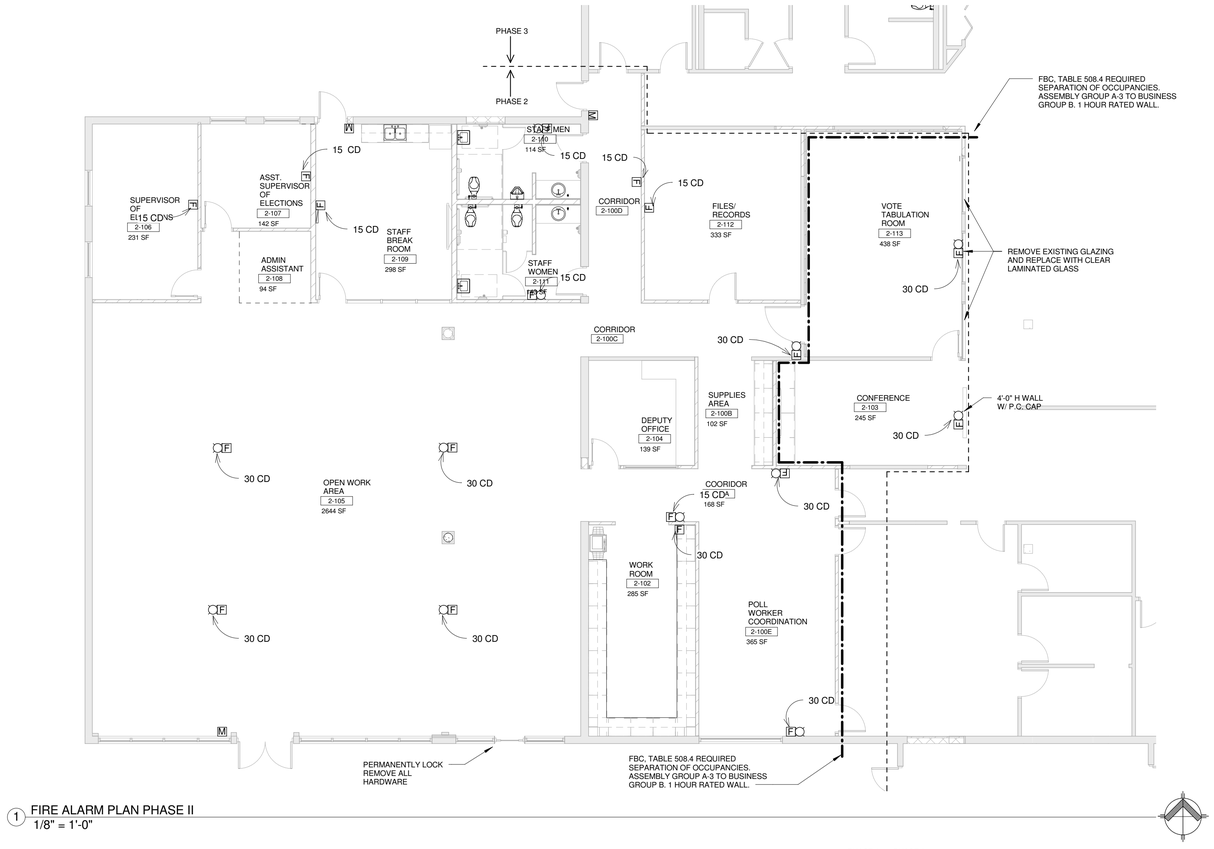
Tampa, FL 33629
Phone: 813-281-0001



1 FIRE ALARM PLAN PHASE II
1/8" = 1'-0"

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

FIRE ALARM PLAN PHASE II

Project No.	2013019.06
Drawn By	NJH
Checked By	PJF
Date	09.29.14

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CONSTRUCTION DOCUMENTS

FA4.2

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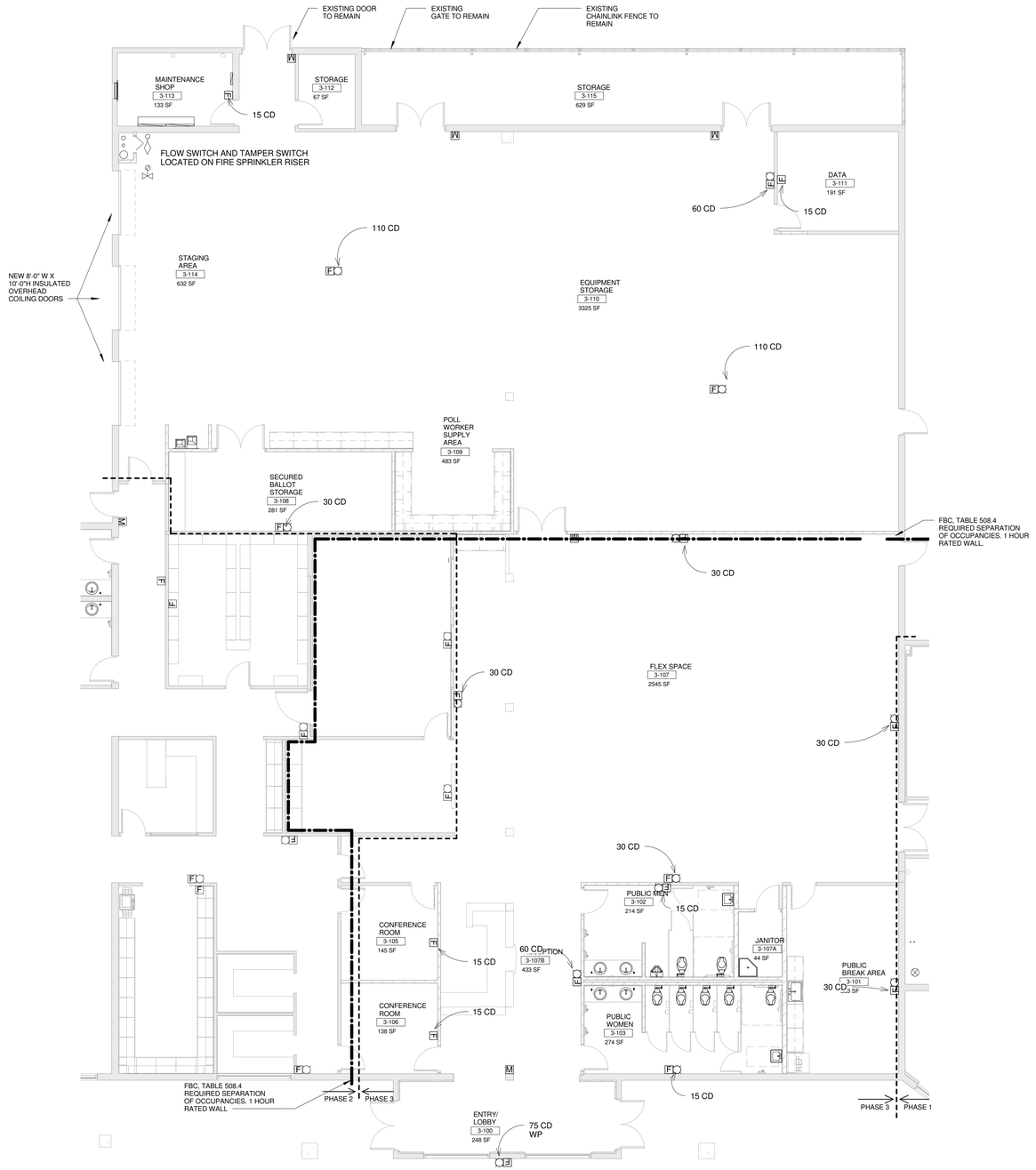

1 FIRE ALARM PLAN PHASE III
1/8" = 1'-0"

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

FIRE ALARM PLAN PHASE III

Project No.	2013019.06
Drawn By	NJH
Checked By	PJF
Date	09.29.14

Revisions:

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CONSTRUCTION DOCUMENTS

FA4.3

Job Number: 4096.13.00

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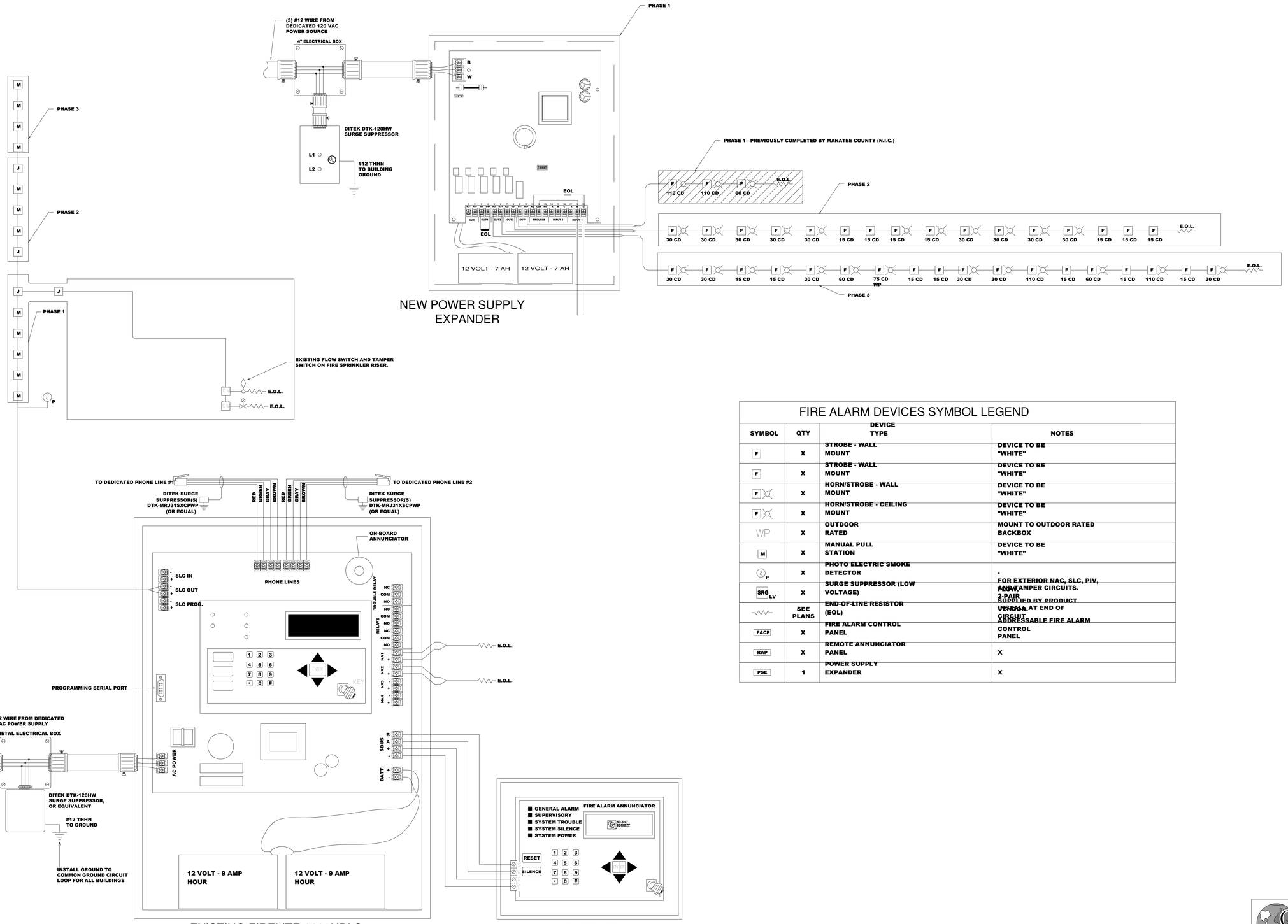

1 FIRE ALARM RISER DIAGRAM
NOT TO SCALE

FIRE ALARM DEVICES SYMBOL LEGEND

SYMBOL	QTY	DEVICE TYPE	NOTES
F	X	STROBE - WALL MOUNT	DEVICE TO BE "WHITE"
F	X	STROBE - WALL MOUNT	DEVICE TO BE "WHITE"
F	X	HORN/STROBE - WALL MOUNT	DEVICE TO BE "WHITE"
F	X	HORN/STROBE - CEILING MOUNT	DEVICE TO BE "WHITE"
WP	X	OUTDOOR RATED	MOUNT TO OUTDOOR RATED BACKBOX
M	X	MANUAL PULL STATION	DEVICE TO BE "WHITE"
P	X	PHOTO ELECTRIC SMOKE DETECTOR	-
SRG LV	X	SURGE SUPPRESSOR (LOW VOLTAGE)	FOR EXTERIOR NAC, SLC, PIV, AND TAMPER CIRCUITS.
	SEE PLANS	END-OF-LINE RESISTOR (EOL)	2-PAIR SUPPLIED BY PRODUCT MANUFACTURER AT END OF CIRCUIT
FACP	X	FIRE ALARM CONTROL PANEL	ADDRESSABLE FIRE ALARM CONTROL PANEL
RAP	X	REMOTE ANNUNCIATOR PANEL	X
PSE	1	POWER SUPPLY EXPANDER	X

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MANATEE COUNTY SUPERVISOR OF ELECTIONS - PHASES 2 AND 3

FIRE ALARM RISER DIAGRAM

Project No.	2013019.06
Drawn By	NJH
Checked By	MAS
Date	09.29.14

Revisions:

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CONSTRUCTION DOCUMENTS

FA8.1

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