HILLSBOROUGH COUNTY SHERIFF'S OFFICE
PINEBROOKE OFFICE PARK RENOVATIONS

100% CONSTRUCTION DOCUMENTS

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WILDERARCHITECTURE, INC.

PROJECT TEAM

MECHANICAL ENGINEERING
ANSTON-GREENLEES, INC.

ELECTRICAL ENGINEER
ANSTON-GREENLEES, INC.

HILLSBOROUGH COUNTY
SHERIFF'S OFFICE
2008 EAST 8TH AVENUE
TAMPA, FLORIDA 33605

HILLSBOROUGH COUNTY SHERIFF'S OFFICE
RENOVATIONS
PINEBROOKE BUSINESS PARK

Project #: 1505-00

100% CONSTRUCTION DOCUMENTS

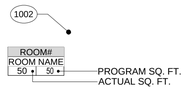
11.16.15

@	AT
AB	ANCHOR BOLT
AC	AIR CONDITION, ER, ING
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
APC	ACOUSTIC PANEL CEILING
APPROX	APPROXIMATELY
ARCH	ARCHITECT
BLDG(S)	BUILDING(S)
BLK	BLOCK
BLKG	BLOCKING
BOS	BOTTTOM OF STEEL
BOTT	BOTTOM
BRG	BEARING
BUR	BUILT-UP ROOFING
CI	CONTRACTOR INSTALLED
CJ	CONTROL JOINT
CL	CENTER LINE
CLF	CHAIN LINK FENCE
CLG	CEILING
CEM	CEMENT
CP	CONTRACTOR PROVIDED
CR	CLASSROOM
CT	CERAMIC TILE
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CPT	CARPET
D	DEEP, DEPTH
DEMO	DEMOLITION
DF	DRINKING FOUNTAIN
DIAM	DIAMETER
DIM	DIMENSION
DOCS	DOCUMENTS
DN	DOWN
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
EA	EACH
EHPA	ENHANCED HURRICANE PROTECTION AREA
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	ETCETERA
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FBC	FLORIDA BUILDING CODE
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FFPC	FLORIDA FIRE PREVENTION CODE
FIN	FINISH
FIXT	FIXTURE
FL	FLOOR
FLUOR	FLUORESCENT
FT	FEET
FTG	FOOTING
FURN	FURNITURE
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GL	GLASS, GLAZING
GWB	GYPSUM WALLBOARD
HB	HOSE BIBB
HC	HANDICAPPED
HT	HEIGHT, HIGH
HDW	HARDWARE
HM	HOLLOW METAL
HMF	HOLLOW METAL FRAME
HORIZ	HORIZONTAL
ID	INSIDE DIAMETER
INCAND	INCANDESCENT
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JT	JOINT
MAINT	MAINTENANCE
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MVCJ	MASONRY VERTICAL CONTROL JOINT
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
#, NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OI	OWNER INSTALLED
OP	OWNER PROVIDED
OPNG	OPENING
OPP	OPPOSITE
OPH	OPPOSITE HAND
PERIM	PERIMETER
PLAS	PLASTER
PL	PROPERTY LINE
PNT	PAINT (PAINTED FINISH)
PROJ	PROJECT
PT	PRESSURE TREATED
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PLWD	PLYWOOD
PP	PUSH PLATE
QT	QUARRY TILE
R/W	RIGHT OF WAY
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCING BAR
REINF	REINFORCE/MENT/ING
REQ'D	REQUIRED
RM	ROOM
RO	ROUGH OPENING
RWB	RESILIENT WALL BASE
RWL	RAIN WATER LEADER
SC	SMOKE COMPARTMENT
SHT	SHEET
SF	SQUARE FOOT
SIM	SIMILAR
SOG	SLAB ON GRADE
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS (RATING)
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRL	STRUCTURAL
SUSP	SUSPEND / ED / SION
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEL	TELEPHONE
TEMP	TEMPORARY
TERR	TERRAZZO
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOT	TOTAL
T/S	TOP OF SLAB
TYP	TYPICAL (UNO)
UNO	UNLESS NOTED OTHERWISE
V	VINYL
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VP	VENEER PLASTER
VSF	VINYL SHEET FLOORING
VT	VINYL TILE
VTR	VENT TO ROOF
W	WIDE, WIDTH
W/	WITH
WP	WEATHERPROOF
WWF	WELDED WIRE FABRIC
WVP	WOOD VENEER PANELING

ARCHITECTURAL ABBREVIATIONS AND ACRONYMS D12

DRAWING TAGS

FURNITURE & EQUIP



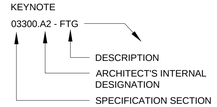
PARTITION TYPE



SPECIFIC NOTE



KEYNOTE



HOLLOW METAL FRAME TYPE



DOOR TAG



SPOT ELEV

SIGNAGE TAGS



ARCHITECTURAL DRAWING SYMBOLS D7

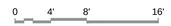
DRAWING IDENTIFICATION

DWG NAME SCALE	DWG NO

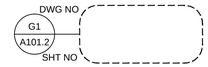
NORTH ARROW



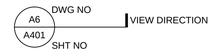
GRAPHIC SCALE



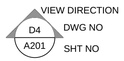
DETAIL INDICATION



SECTION CUT INDICATION



ELEVATION INDICATION



ARCHITECTURAL DRAWING SYMBOLS D7

DRAWING INDEX D1

COVER

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D101.2	PARTIAL DEMOLITION PLAN
A001	LIFE SAFETY PLAN
A101.1	PARTIAL FLOOR PLAN - HR
A101.2	PARTIAL FLOOR PLAN - ND
A102.1	PARTIAL REFLECTED CEILING PLAN - HR
A102.2	PARTIAL REFLECTED CEILING PLAN - ND
A103.1	PARTIAL DIMENSION PLAN - HR
A103.2	PARTIAL DIMENSION PLAN - ND
A800	FINISH SCHEDULES
A801	OPENING SCHEDULES, DOOR AND FRAME ELEVATIONS
A802	DOOR AND FRAME DETAILS
A803	PARTITION TYPES
A804	CASEWORK ELEVATIONS
A805	CASEWORK ELEVATIONS
A806	CASEWORK ELEVATIONS
A807	CASEWORK ELEVATIONS
A808	CASEWORK SECTIONS
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FP102	FIRE PROTECTION PLAN - SOUTHWEST
FP103	FIRE PROTECTION PLAN - SOUTH EAST

PLUMBING

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P102	PLUMBING PLAN - SOUTH
P201	SANITARY RISERS
P301	PLUMBING SCHEDULES
P401	PLUMBING DETAILS

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M102	HVAC PLAN - SOUTH
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M202	HVAC SCHEDULES
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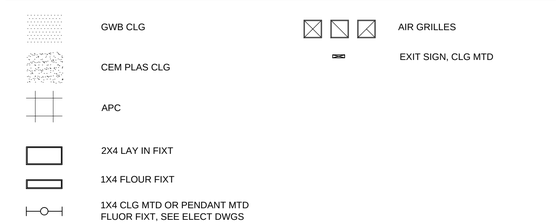
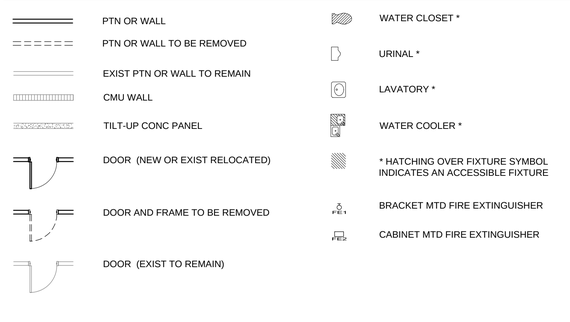
E102	LIGHTING PLAN
E201	POWER AND SYSTEMS PLAN
E202	POWER AND SYSTEMS PLAN
E301	FIRE ALARM SYSTEMS PLAN
E302	FIRE ALARM SYSTEMS PLAN
E401	MECHANICAL EQUIPMENT SCHEDULE
E402	MECHANICAL EQUIPMENT PLAN
E501	ELECTRICAL RISER DIAGRAM
E701	ELECTRICAL DETAILS

REFLECTED CEILING PLAN



FLOOR PLAN



LEGENDS A4



VICINITY MAP
NTS A1

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HILLSBOROUGH COUNTY SHERIFF'S OFFICE
RENOVATIONS
PINEBROOKE BUSINESS PARK

Project #: 1505-00

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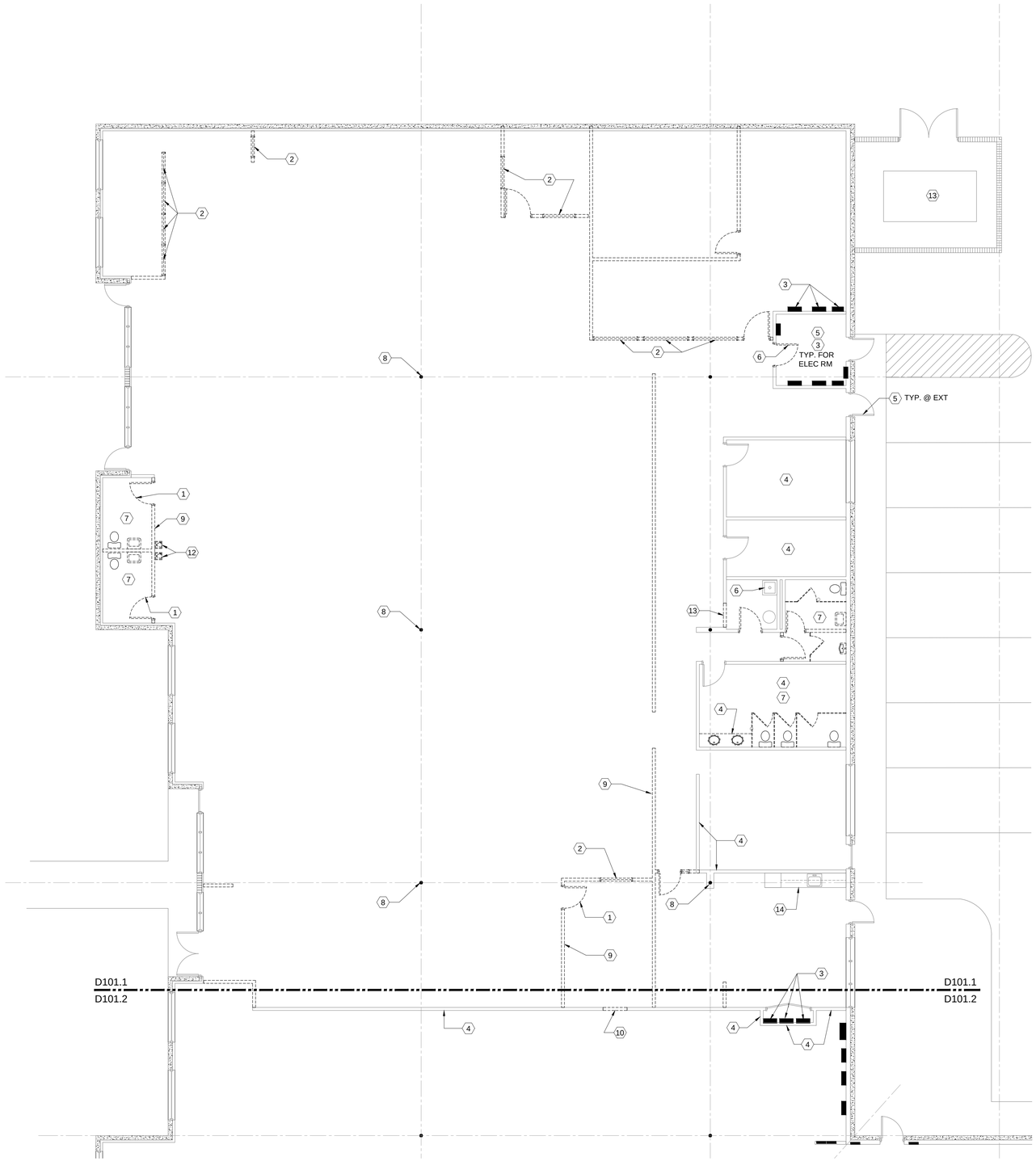
GENERAL INFORMATION

A000



GENERAL DEMO PLAN NOTES

1. CONTRACTOR TO PROTECT ALL EXIST FINISHES THAT ARE TO REMAIN.
2. ACOUSTICAL PANEL CEILING SYSTEM TO BE REMOVED, UNO.
3. REMOVE EXIST FLOOR FINISHES, TYP, UNO.
4. ALL DOORS, DOOR FRAMES AND HARDWARE INDICATED TO BE REMOVED, SHALL BE STORED AND PROTECTED FOR FUTURE USE.
5. EXIST LIGHTING FIXTURE, DIFFUSERS AND ALL OTHER CEILING MOUTED DEVICES ARE TO BE REMOVED.
6. WHERE PLUBMING FIXTURES ARE REMOVED, SUPPLY LINES SHALL BE PROPERLY TERMINATED AND DRAIN LINES CAPPED.
7. GWB ON EXTERIOR WALLS SHALL REMAIN, TYP.
8. REMOVE AND STORE EXIST VERTICAL BLINDS
9. CONC SLAB TO BE REMOVED AS REQUIRED FOR INSTALLATION OF NEW SANITARY LINES ASSOCIATED WITH NEW TOILET ROOMS. SEE PLUMBING DRAWINGS.

SPECIFIC DEMO PLAN NOTES

1. DOOR AND FRAME TO BE REMOVED, TYP UNO.
2. HM WINDOW FRAME AND GLAZING TO BE REMOVED.
3. EXIST ELEC PANEL TO REMAIN.
4. EXIST PARTITION TO REMAIN.
5. EXIST DOOR AND FRAME TO REMAIN.
6. EXIST MOP SINK TO REMAIN
7. REMOVE EXIST PLUMBING FIXTURES.
8. EXIST STL COL.
9. REMOVE EXIST PARTITION, TYP. UNO.
10. REMOVE EXIST PARTITION AS REQUIRED FOR NEW DOOR AND FRAME INSTALLATION.
11. REMOVE PLUMBING FIXTURES, ACCESSORIES AND FLOORING.
12. REMOVE EXIST DF. STORE FOR FUTURE REINSTALLATION
13. EXIST GENERATOR TO REMAIN.
14. EXIST CASEWORK TO REMAIN.

DEMOLITION PLAN LEGEND

- PTN OR WALL TO BE REMOVED
- EXIST PTN OR WALL TO REMAIN
- DOOR AND FRAME TO BE REMOVED
- DOOR (EXIST TO REMAIN)
- WINDOW TO BE REMOVED
- WINDOW (EXIST TO REMAIN)
- EXIST WATER CLOSET
- WATER CLOSET TO BE REMOVED
- URINALTO BE REMOVED
- EXIST URINAL
- EXIST LAVATORY
- EXIST WATER COOLER

0 4' 8' 16'

PARTIAL DEMOLITION PLAN 1/8" = 1'-0" A3

NOTES & LEGENDS A1

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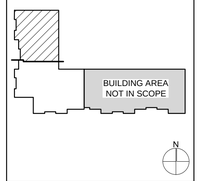

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HILLSBOROUGH COUNTY SHERIFF'S OFFICE RENOVATIONS PINEBROOKE BUSINESS PARK

PROJECT #: 1505-00

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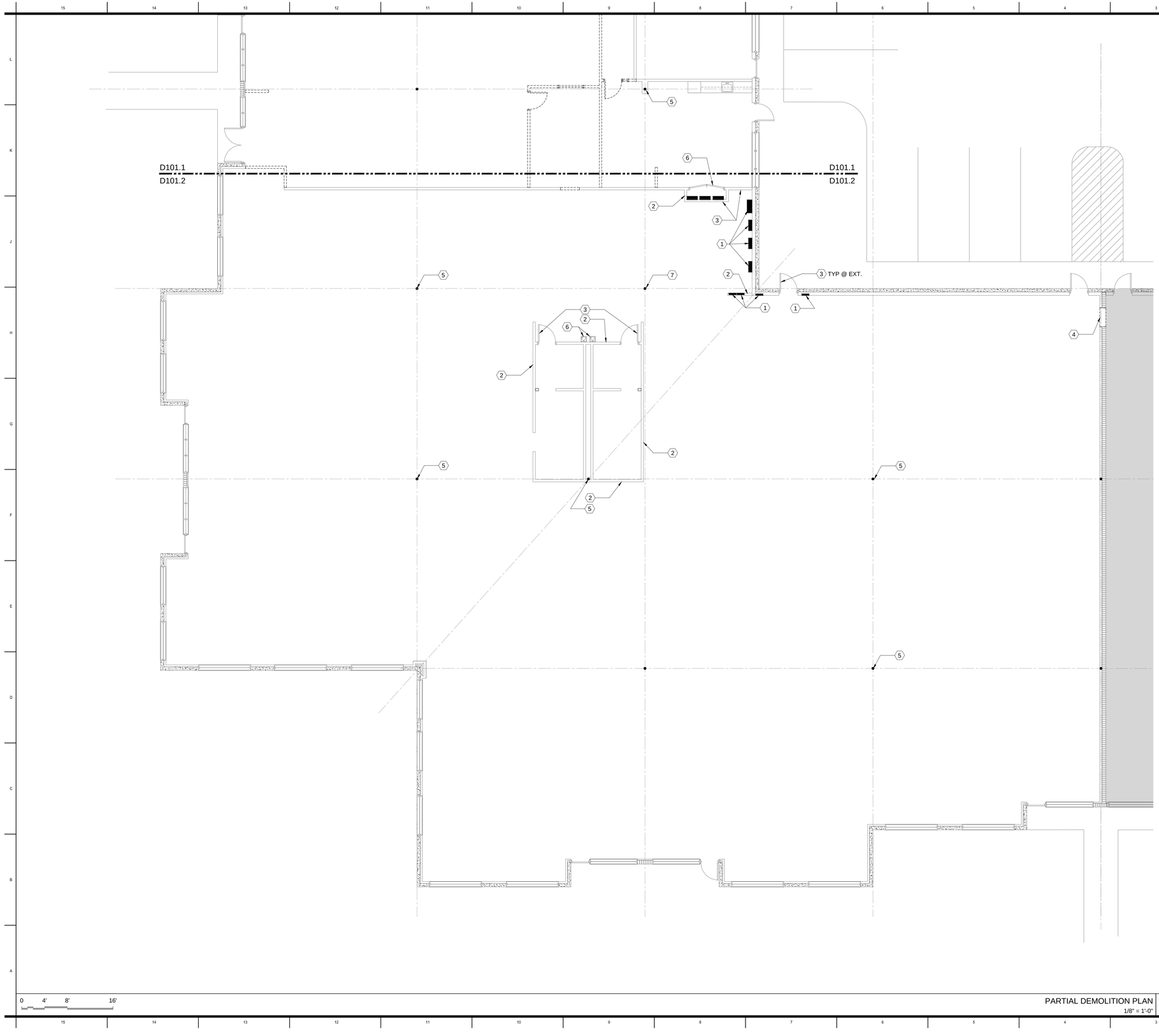
PARTIAL DEMOLITION PLAN

D101.1



GENERAL DEMO PLAN NOTES

1. CONTRACTOR TO PROTECT ALL EXIST FINISHES THAT ARE TO REMAIN.
2. ACOUSTICAL PANEL CEILING SYSTEM TO BE REMOVED, UNO.
3. REMOVE EXIST FLOOR FINISHES NOT ALREADY REMOVED.
4. ALL DOORS, DOOR FRAMES AND HARDWARE INDICATED TO BE REMOVED, SHALL BE STORED AND PROTECTED FOR FUTURE USE.
5. EXIST LIGHTING FIXTURE, DIFFUSERS AND ALL OTHER CEILING MOUTED DEVICES SHALL BE REMOVED.
8. GWB ON EXTERIOR WALLS SHALL REMAIN, TYP.
9. REMOVE AND STORE EXIST VERTICAL BLINDS
10. CONC SLAB TO BE REMOVED AS REQUIRED FOR INSTALLATION OF NEW SANITARY LINES ASSOCIATED WITH NEW TOILET ROOMS. SEE PLUMBING DRAWINGS.

SPECIFIC DEMO PLAN NOTES

1. EXIST ELEC PANEL TO REMAIN.
2. EXIST PARTITION TO REMAIN.
3. EXIST DOOR AND FRAME TO REMAIN.
4. REMOVE EXIST CMU AS REQUIRE FOR INSTALLATION OF NEW HM FRAME.
5. EXIST STL COL.
6. EXIST DF TO REMAIN.

DEMOLITION PLAN LEGEND

- PTN OR WALL TO BE REMOVED
- EXIST PTN OR WALL TO REMAIN
- DOOR AND FRAME TO BE REMOVED
- DOOR (EXIST TO REMAIN)
- WINDOW TO BE REMOVED
- WINDOW (EXIST TO REMAIN)
- EXIST WATER CLOSET
- WATER CLOSET TO BE REMOVED
- URINALTO BE REMOVED
- EXIST URINAL
- EXIST LAVATORY
- EXIST WATER COOLER

PARTIAL DEMOLITION PLAN 1/8" = 1'-0" | A3

NOTES | A1

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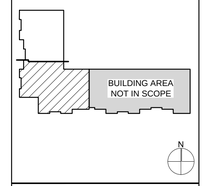

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HILLSBOROUGH COUNTY SHERIFF'S OFFICE
RENOVATIONS
PINEBROOKE BUSINESS PARK

PROJECT #: 1505-00

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PARTIAL DEMOLITION PLAN

D101.2



LIFE SAFETY PLAN 1/16" = 1'-0" | A3

PROJECT SUMMARY

PARTIAL RENOVATION OFA 1-STORY BUILDING. REMOVE EXISTING AND INSTALL NEW GYPSUM WALLBOARD PARTITIONS. REVISE MECHANICAL, ELECTRICAL AND DATA SYSTEMS ASSOCIATED WITH PARTITION MODIFICATIONS.
RENOVATED AREA - 27,888 GSF

LIFE SAFETY DATA (CODE RESEARCH)

FLORIDA BUILDING CODE 2014

BUILDING TYPE: TYPE IIB, SPRINKLERED

OCCUPANCY TYPE: BUSINESS OCCUPANCY
REQUIREMENTS (GROUP B)
MAX. TRAVEL DISTANCE TO EXIT (TABLE 1016.2): 300'-0" (SPRINKLERED)
DEAD END CORRIDOR (1018.4): 50'-0"
EGRESS WIDTH (1005.3.2) (PER PERSON SERVED)
LEVEL: 0.2"
MINIMUM CORRIDOR WIDTH (1018.2): 44"
MINIMUM CLEAR OPENING OF EXIT DOORS (1008.1.1): 32"

COMMON PATH OF TRAVEL: 100'-0" (TABLE 1014.3)

OCCUPANT LOADS & CAPACITY OF MEANS OF EGRESS:

ASSEMBLY AREAS:

HR TESTING: 1,045 SF / 15 SF PER OCCUPANT = 70 OCCUPANTS

TRAINING: 1,176 SF / 15 SF PER OCCUPANT = 79 OCCUPANTS

ROLL CALL: 1,090 SF / 15 SF PER OCCUPANT = 73 OCCUPANTS

BUSINESS AREAS:

TENANT IMPROVEMENT (BUSINESS AREAS): 24,577 GSF / 100 GSF PER OCCUPANT (TABLE 1004.1.1) = 246 OCCUPANTS

TOTAL OCCUPANTS = 468 OCCUPANTS
EGRESS WIDTH LEVEL: (0.2)(468) = 93.6" EGRESS WIDTH
MINIMUM CORRIDOR WIDTH (1017.2) : 44" (48" MIN. PROVIDED - OK)

PATH 1
30'-2" COMMON PATH OF TRAVEL (<100' OK)
86'-7" DISTANCE TO EXIT (<300' OK)

PATH 2
26'-9" COMMON PATH OF TRAVEL (<100' OK)
103'-9" DISTANCE TO EXIT (<300' OK)

PATH 3
54'-6" COMMON PATH OF TRAVEL (<100' OK)
128'-1" DISTANCE TO EXIT (<300' OK)

PATH 4
13'-6" COMMON PATH OF TRAVEL (<100' OK)
68'-7" DISTANCE TO EXIT (<300' OK)

PATH 5
13'-6" COMMON PATH OF TRAVEL (<100' OK)
120'-5" DISTANCE TO EXIT (<300' OK)

PLUMBING FIXTURE FROM TABLE P403.1 MIN. PLUMBING FIXTURES:

BUSINESS OCCUPANCY

REQUIRED

WATER CLOSETS*	LAVATORIES	DRINKING FOUNTAINS	SERVICE CLOSET
10	10	5	1

*URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF WATER CLOSETS (419.2)

PROVIDED

WATER CLOSETS		URINALS	LAVATORIES		DRINKING FOUNTAINS	SERVICE CLOSET
M	F		M	F		
7	11	3	8	10	6	3

FLOOR / LIFESAFETY PLAN LEGEND

- PRIMARY EXIT
- SECONDARY EXIT
- TO EXIT ACCESS CORRIDOR
- END OF COMMON PATH OF TRAVEL
- TRAVEL DISTANCE
- EXIST 1-HOUR RATED PARTION
- BUILDING AREA NOT IN SCOPE WORK TO THE FIRE PROTECTION SYSTEM WILL BE REQUIRED BEYOND THE DESIGNATED AREA OF WORK
- ADA CLEAR TURN-AROUND FLOOR AREA
- ADA CLEAR FLOOR AREA AT OPENINGS (ARROW INDICATES APPROACH DIRECTION)
- EXIT SIGN
- BRACKET MTD FIRE EXTINGUISHER (FE1)
- CABINET MTD FIRE EXTINGUISHER (FE2)
- SECURED DOOR. DOOR TO REMAIN UNLOCKED IN DIRECTION OF EGRESS (PR)

NOTES | A1

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LIFE SAFETY PLAN

A001.1

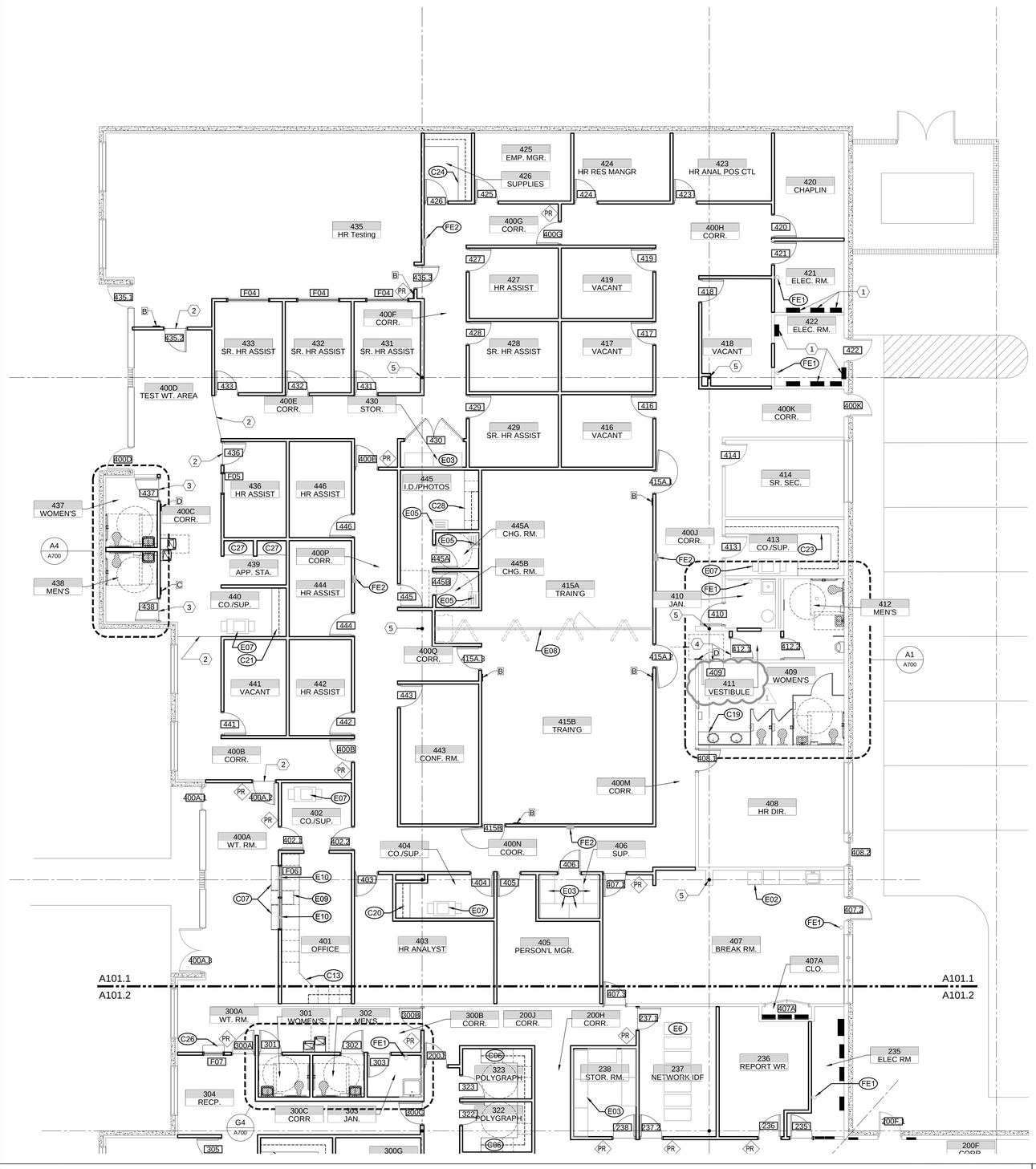
CASEWORK SCHEDULE

NUMBER	DESCRIPTION	CONTRACT STATUS				REMARKS
		CP	OP	CI	OI	
C01	WORKSTATIONS, 30" H X 30" D W / KNEE SPACE AND ADJACENT BANK OF DRAWERS AND 12" D UPPER CABINETS	•		•		ALL DRAWERS AND CABINETS TO BE LOCKABLE. SEE DETAIL A1/A804
C02	WORKSTATIONS, 30" H X 30" D W / KNEE SPACE AND ADJACENT BANK OF DRAWERS AND 12" D UPPER CABINETS	•		•		ALL DRAWERS AND CABINETS TO BE LOCKABLE. SEE DETAIL A6/A804
C03	WORKSTATIONS, 30" H X 30" D W / KNEE SPACE AND ADJACENT BANK OF DRAWERS AND 12" D UPPER CABINETS	•		•		ALL DRAWERS AND CABINETS TO BE LOCKABLE. SEE DETAIL D1/A804
C04	WORKSTATIONS, 30" H X 30" D W / KNEE SPACE AND ADJACENT BANK OF DRAWERS AND 12" D UPPER CABINETS	•		•		ALL DRAWERS AND CABINETS TO BE LOCKABLE. SEE DETAIL D9/A804
C05	WORKSTATIONS, 30" H X 30" D W / KNEE SPACE AND ADJACENT BANK OF DRAWERS AND 12" D UPPER CABINETS	•		•		ALL DRAWERS AND CABINETS TO BE LOCKABLE. SEE DETAIL H1/A804
C06	WORKSTATIONS, 30" H X 30" D W / KNEE SPACE AND ADJACENT BANK OF DRAWERS AND 12" D UPPER CABINETS	•		•		ALL DRAWERS AND CABINETS TO BE LOCKABLE. SEE DETAIL H6/A804
C07	RECEPTION COUNTER, 9'W X 1' D X 36"	•		•		SEE DETAIL H12/A808
C08	BASE AND UPPER CABINETS. 36" H X 24" D COUNTER	•		•		SEE DETAILS H10/A804
C09	BASE AND UPPER CABINETS. 36" H X 24" D COUNTER	•		•		SEE DETAILS A1/A805
C10	BASE AND UPPER CABINETS. 36" H X 24" D COUNTER	•		•		SEE DETAILS A6/A805
C11	BASE AND UPPER CABINETS. 36" H X 24" D COUNTER	•		•		SEE DETAILS A11/A805
C12	WORKSTATIONS, 30" H X 30" D W / KNEE SPACE AND ADJACENT BANK OF DRAWERS	•		•		ALL DRAWERS AND CABINETS TO BE LOCKABLE. SEE DETAIL E1/A805
C13	RECEPTION COUNTER, 30" H X 24" D W / KNEE SPACE AND ADJACENT BANK OF DRAWERS AND 12" D UPPER CABINETS	•		•		ALL DRAWERS AND CABINETS TO BE LOCKABLE. SEE DETAIL H1/A808
C14	BASE AND UPPER CABINETS. 36" H X 24" D COUNTER	•		•		SEE DETAILS H13/A804
C15	WORKSTATIONS, 30" H X 30" D W / KNEE SPACE AND ADJACENT BANK OF DRAWERS AND 12" D UPPER CABINETS	•		•		ALL DRAWERS AND CABINETS TO BE LOCKABLE. SEE DETAIL E8/A805
C16	WORKSTATIONS, 30" H X 30" D W / KNEE SPACE AND ADJACENT BANK OF DRAWERS AND 12" D UPPER CABINETS	•		•		ALL DRAWERS AND CABINETS TO BE LOCKABLE. SEE DETAIL H1/A805
C17	WORKSTATIONS, 30" H X 30" D W / KNEE SPACE AND ADJACENT BANK OF DRAWERS AND 12" D UPPER CABINETS	•		•		ALL DRAWERS AND CABINETS TO BE LOCKABLE. SEE DETAIL A1/A806
C18	LAVATORY COUNTER	•		•		SEE DETAIL H1/A807
C19	LAVATORY COUNTER	•		•		SEE DETAIL H5/A807
C20	BASE AND UPPER CABINETS. 36" H X 24" D COUNTER	•		•		SEE DETAILS H1/A806
C21	BASE AND UPPER CABINETS. 36" H X 24" D COUNTER	•		•		SEE DETAILS E1/A807
C22	BASE AND UPPER CABINETS. 36" H X 24" D COUNTER	•		•		SEE DETAILS E5/A807
C23	BASE AND UPPER CABINETS. 36" H X 24" D COUNTER	•		•		SEE DETAILS H5/A806
C24	BASE AND UPPER CABINETS. 36" H X 24" D COUNTER	•		•		SEE DETAILS A1/A807
C25	WORKSTATIONS, 30" H X 30" D W / KNEE SPACE AND ADJACENT BANK OF DRAWERS AND 12" D UPPER CABINETS	•		•		ALL DRAWERS AND CABINETS TO BE LOCKABLE. SEE DETAIL A8/A807
C26	RECEPTION COUNTER, 3' W X 1' D X 36" H	•		•		-
C27	APPLICATION STATION COUNTERTOP	•		•		SEE DETAIL H9/A807
C28	WORKSTATIONS, 30" H X 30" D W / KNEE SPACE AND ADJACENT BANK OF DRAWERS AND 12" D UPPER CABINETS	•		•		ALL DRAWERS AND CABINETS TO BE LOCKABLE. SEE DETAIL E10/A807

EQUIPMENT / FURNISHINGS SCHEDULE

NUMBER	DESCRIPTION	CONTRACT STATUS				REMARKS
		CP	OP	CI	OI	
E01	ELECTRICALLY OPERATED, PROJECTION SCREEN, CEILING MOUNTED, RECESSED	•		•		SEE SPECIFICATIONS, CONTRACTOR TO PROVIDE POWER AND SWITCHING
E02	REFRIGERATOR		•		•	-
E03	METAL SHELVING					4' W X 24" D X 6' H
E04	METAL SHELVING	•		•		3' W X 24" D X 6' H
E05	PREFABRICATED SEATING UNIT	•		•		CONTRACTOR TO PROVIDE BLOCKING IN WALL SEE SPECIFICATIONS
E06	DATA RACK		•		•	-
E07	COPIER		•		•	CONTRACTOR TO PROVIDE POWER AND DATA ROUGH-IN
E08	OPERABLE PANEL PARTITION	•		•		SEE SPECIFICATIONS
E09	SECURITY DRAWER	•		•		SEE SPECIFICATIONS
E10	SPEAKER BOX	•		•		SEE SPECIFICATIONS
FE1	BRACKET MOUNTED FIRE EXTINGUISHER	•		•		-
FE2	SEMI-RECESSED FIRE EXTINGUISER CABINET	•		•		-

CASEWORK AND EQUIPMENT SCHEDULES | C12



0 4' 8' 16'

PARTIAL FLOOR PLAN - HR | 1/8" = 1'-0" | A3

FLOOR PLAN LEGEND

- PR — PROXIMITY READER LOCATION. CONTRACTOR TO PROVIDE:
  - JUNCTION BOX ADJACENT TO DOOR STRIKE FOR FUTURE INSTALLATION OF PROXIMITY READER
  - CONDUIT FROM JUNCTION BOX TO ABOVE CEILING
  - ELECTRIC STRIKE HARDWARE AND ALL ASSOCIATED POWER CONNECTIONS
- BUILDING AREA NOT IN SCOPE
- ADA CLEAR TURN-AROUND FLOOR AREA
- ADA CLEAR FLOOR AREA AT OPENINGS (ARROW INDICATES APPROACH DIRECTION)
- A — SIGNAGE LOCATION, TYPICAL. SEE SHEET A802 FOR TYPE (A, B OR C)

ALTERNATES

ALTERNATE 1 - EXTERIOR PAINTING:
PRESSURE WASH, PREPARE AND PAINT ALL EXTERIOR SUREFACES OF THE BUILDING, INCLUDING TILT-WALL PANELS, SPLIT-FACE CMU AT ENTRIES, CEMENT PLASTER SOFFITS, HOLLOW METAL DOORS AND FRAMES AND METAL ROOF AND FASCIA PANELS.

ALTERNATE 2 - EXTERIOR TILT-PANEL JOINTS:
REMOVE EXISTING TILT-PANEL JOINT MATERIAL, CLEAN JOINTS AND REPLACE SEALANT AT ALL JOINTS ON THE BUILDING WITH SPECIFIED MATERIAL.

LTERNATE 3 - REMAINING BUILDING JOINTS:
REMOVE EXISTING JOINT MATERIAL AT ALL REMAINING LOCATIONS ON THE EXTERIOR OF THE BUILDING. THIS INCLUDES JOINTS AT CMU WALLS, PERIMETER STOREFRONTS, HOLLOW METAL FRAMES AND ALL OTHER JOINTS NOT ASSOCIATED WITH THE TILT-PANELS. REPLACE SEALANT AT ALL THESE LOCATIONS WITH SPECIFIED MATERIAL.

LTERNATE 4 - STOREFRONT GLAZING GASKETS:
REMOVE EXISTING GLAZING GASKETING AT ALL STOREFRONT UNITS. CLEAN GLAZING CHANNEL. INSTALL NEW GLAZING GASKETS.

GENERAL FLOOR PLAN NOTES

1. CONTRACTOR TO PROTECT ALL EXIST FINISHES DURING CONSTRUCTION.
2. EXISTING BLINDS TO BE REMOVED, STORED DURING CONSTRUCTION, CLEANED AND REINSTALLED. PROVIDE NEW BLINDS TO MATCH EXISTING WHERE BROKEN / NOT FUNCTIONAL.
3. THE INTERIOR PERIMTER GWB/MTL STUD ASSEMBLY IS TO REMAIN, TYP. THE CONTRACTOR SHALL REPAIR THE EXISTING FINISH WHERE INTERSECTING PARTITIONS WERE REMOVED.

SPECIFIC FLOOR PLAN NOTES

1. EXIST ELECTRICAL PANEL
2. CPT / VCT TRANSITION
3. CT / VCT TRANSITION
4. CPT / CT TRANSITION
5. EXIST STL COL

NOTES | A1

1517 SEVENTH AVENUE
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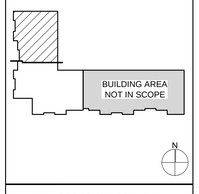

HILLSBOROUGH COUNTY
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HILLSBOROUGH COUNTY SHERIFF'S OFFICE RENOVATIONS PINEBROOKE BUSINESS PARK

PROJECT #: 1505-00	
DISTRIBUTION	DATE
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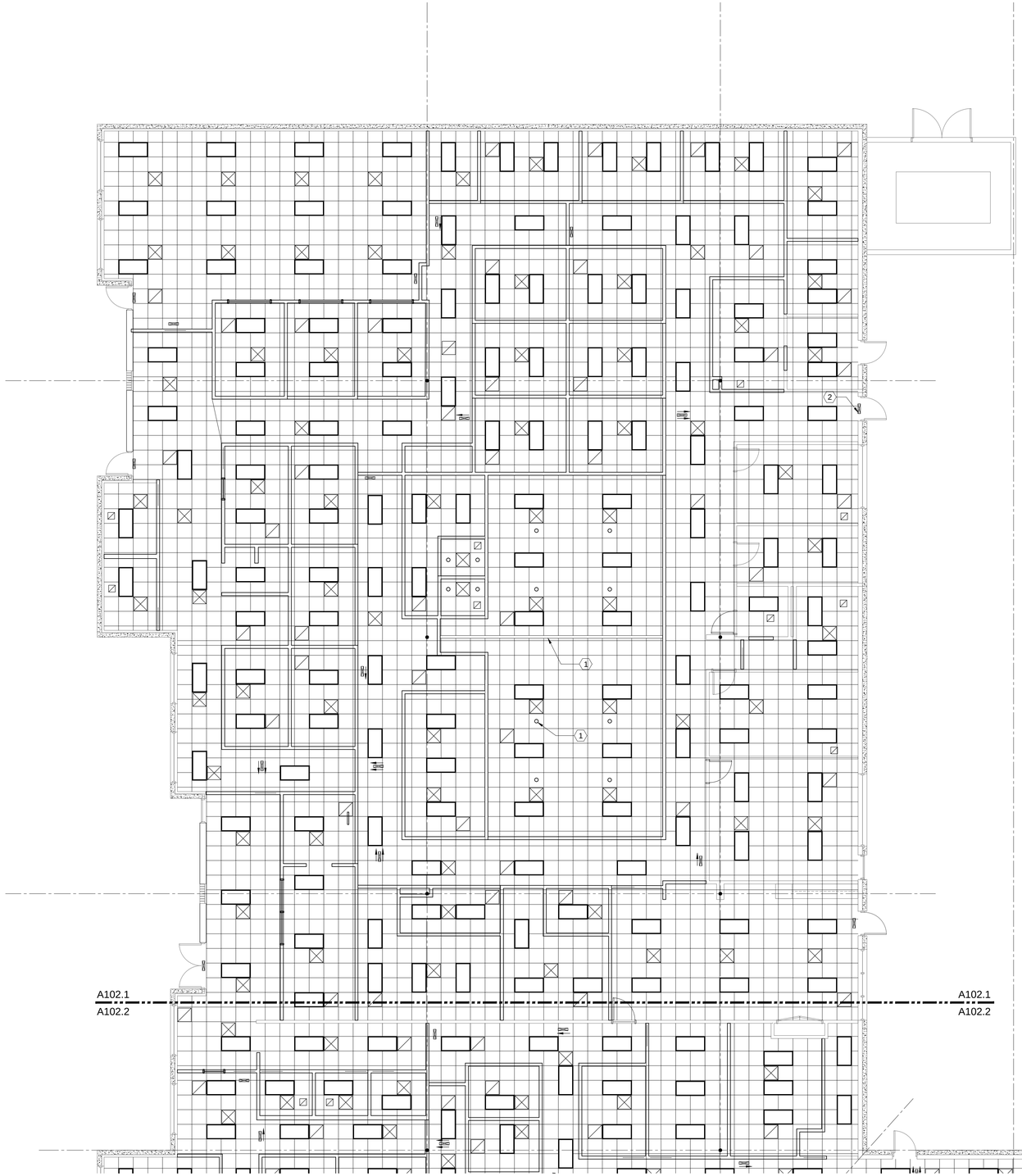
100% CONST. DOCS	11/16/15

PARTIAL FLOOR PLAN - HR

A101.1



GENERAL CEILING PLAN NOTES

1. CONTRACTOR TO PROTECT ALL EXIST FINISHES DURING CONSTRUCTION.
2. CEILING GRID PATTERN SHALL BE CONTINUOUS.
3. CENTER ALL CEILING MOUNTED DEVICES IN THE GRID.

SPECIFIC CEILING PLAN NOTES

1. OPERABLE PANEL PARTITION TRACK.
2. EXIT SIGN, TYP.
3. RECESSED CAN FIXTURE, TYP.

0 4' 8' 16'

PARTIAL REFLECTED CEILING PLAN - HR
1/8" = 1'-0"

A3

NOTES A1

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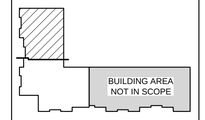

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HILLSBOROUGH COUNTY SHERIFF'S OFFICE
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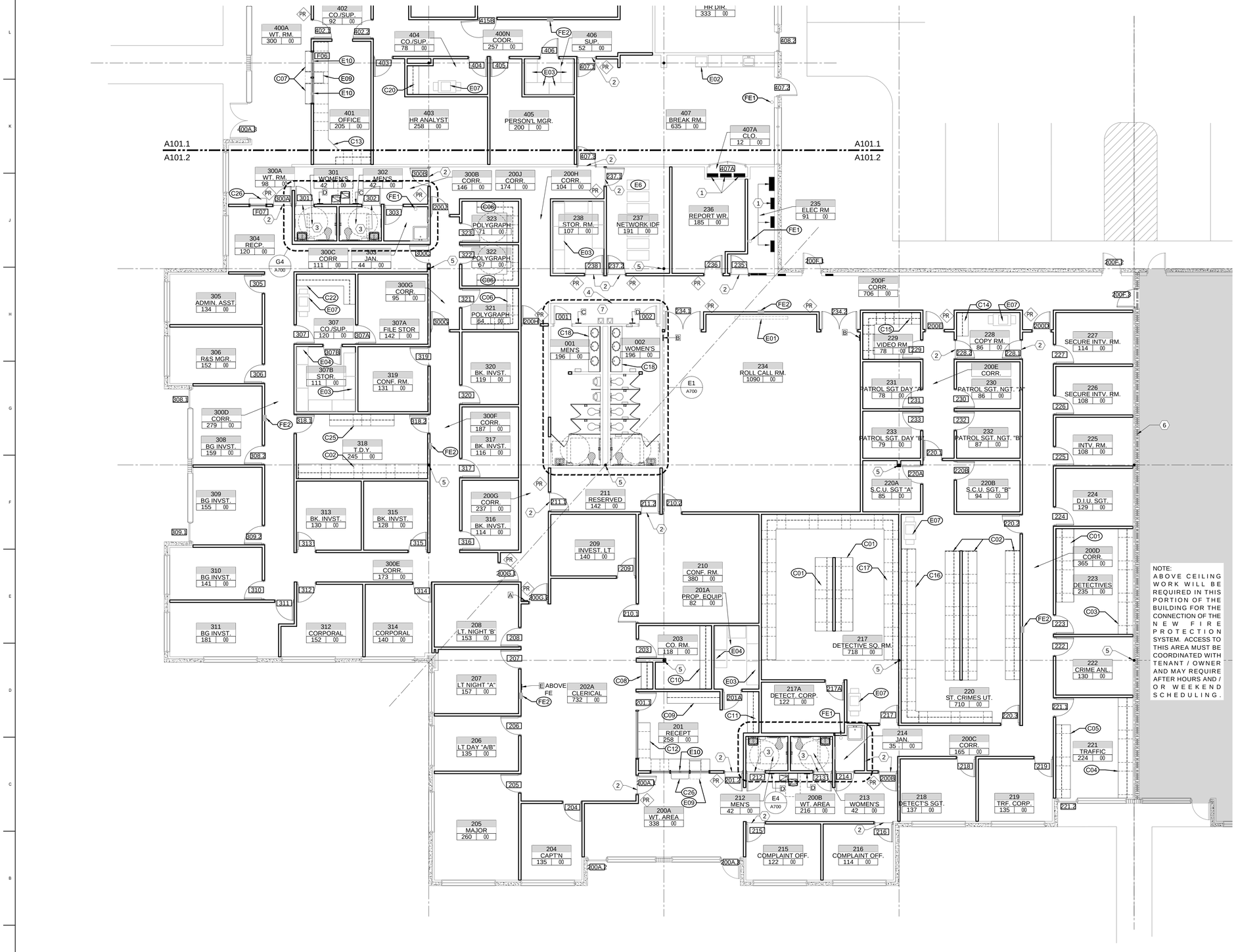
PARTIAL REFLECTED CEILING PLAN - HR

A102.1



FLOOR PLAN LEGEND

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  - JUNCTION BOX ADJACENT TO DOOR STRIKE FOR FUTURE INSTALLATION OF PROXIMITY READER
  - CONDUIT FROM JUNCTION BOX TO ABOVE CEILING
  - ELECTRIC STRIKE HARDWARE AND ALL ASSOCIATED POWER CONNECTIONS
- BUILDING AREA NOT IN SCOPE
- ADA CLEAR TURN-AROUND FLOOR AREA
- ADA CLEAR FLOOR AREA AT OPENINGS (ARROW INDICATES APPROACH DIRECTION)
- A — SIGNAGE LOCATION, TYPICAL. SEE SHEET A802 FOR TYPE (A, B OR C)

GENERAL FLOOR PLAN NOTES

1. CONTRACTOR TO PROTECT ALL EXIST FINISHES DURING CONSTRUCTION.
2. EXISTING BLINDS TO BE REMOVED, STORED DURING CONSTRUCTION, CLEANED AND REINSTALLED. PROVIDE NEW BLINDS TO MATCH EXISTING WHERE BROKEN / NOT FUNCTIONAL.
3. THE INTERIOR PERIMETER GWB/MTL STUD ASSEMBLY IS TO REMAIN, TYP. THE CONTRACTOR SHALL REPAIR THE EXISTING FINISH WHERE INTERSECTING PARTITIONS WERE REMOVED.

SPECIFIC FLOOR PLAN NOTES

1. EXIST ELECTRICAL PANEL
2. CPT / VCT TRANSITION
3. CT/ VCT TRANSITION
4. CPT / CT TRANSITION
5. EXIST STL COL
6. EXIST 1-HOUR RATED PARTITION
7. PROVIDE CT AT TOILET ROOM ENTRY.

0 4' 8' 16'

PARTIAL FLOOR PLAN - ND
1/8" = 1'-0"

A3

NOTES

A1

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BUILDING AREA NOT IN SCOPE

N

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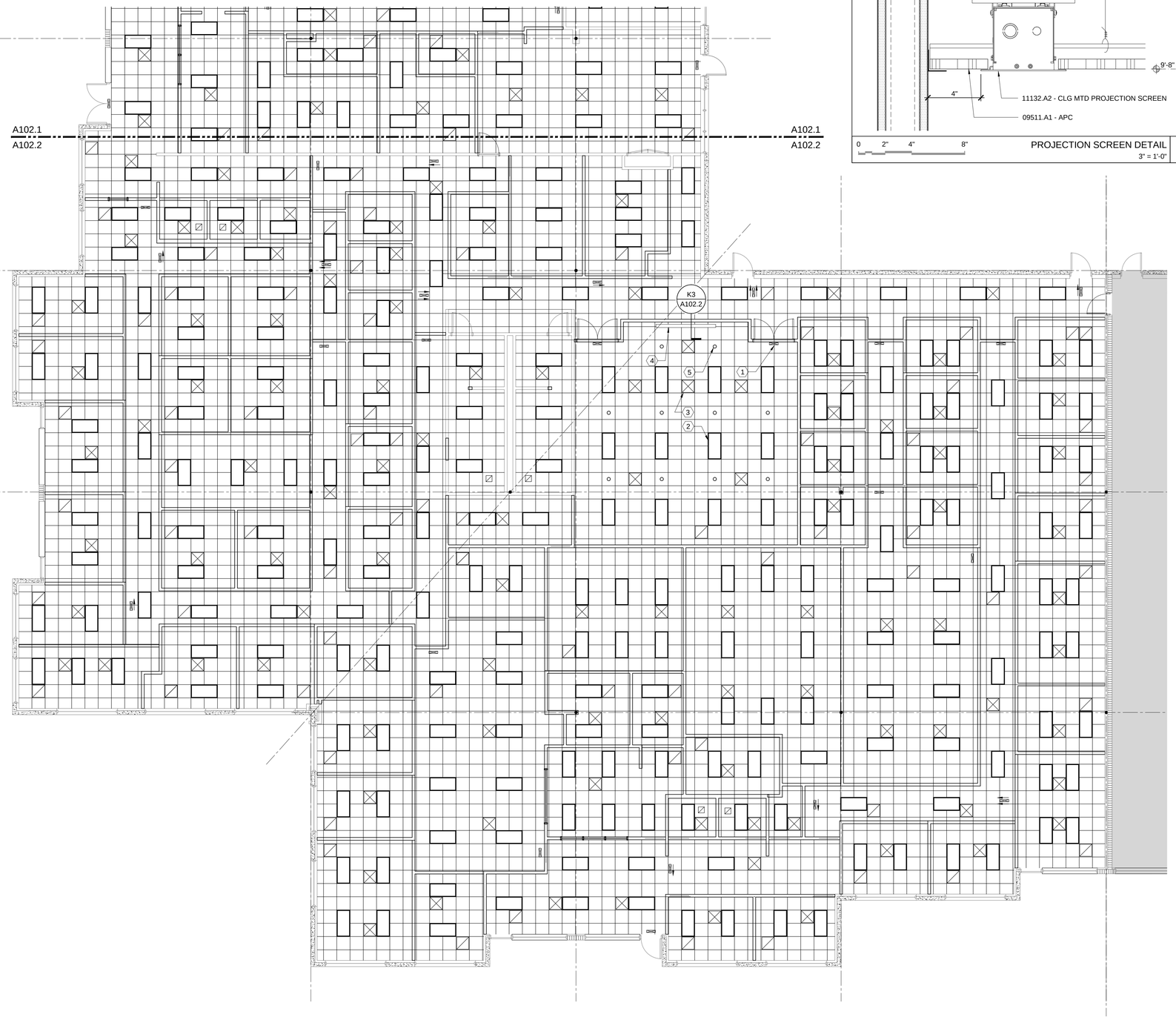
PARTIAL FLOOR PLAN-ND

A101.2



0 2" 4" 8"

PROJECTION SCREEN DETAIL
3" = 1'-0"

K3

BUILDING AREA NOT IN SCOPE

GENERAL CEILING PLAN NOTES

1. CONTRACTOR TO PROTECT ALL EXIST FINISHES DURING CONSTRUCTION.
2. CEILING GRID PATTERN SHALL BE CONTINUOUS.
3. CENTER ALL CEILING MOUNTED DEVICES IN THE GRID.

SPECIFIC CEILING PLAN NOTES

1. EXIT SIGN, TYP.
2. LAY-IN LIGHTING FIXTURE, TYP.
3. MECH DIFFUSER, TYP.
4. PROJECTION SCREEN
5. RECESSED LIGHT FIXTURE, TYP.

0 4' 8' 16'

PARTIAL REFLECTED CEILING PLAN - ND
1/8" = 1'-0"

A3

NOTES

A1

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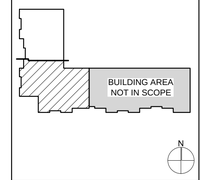

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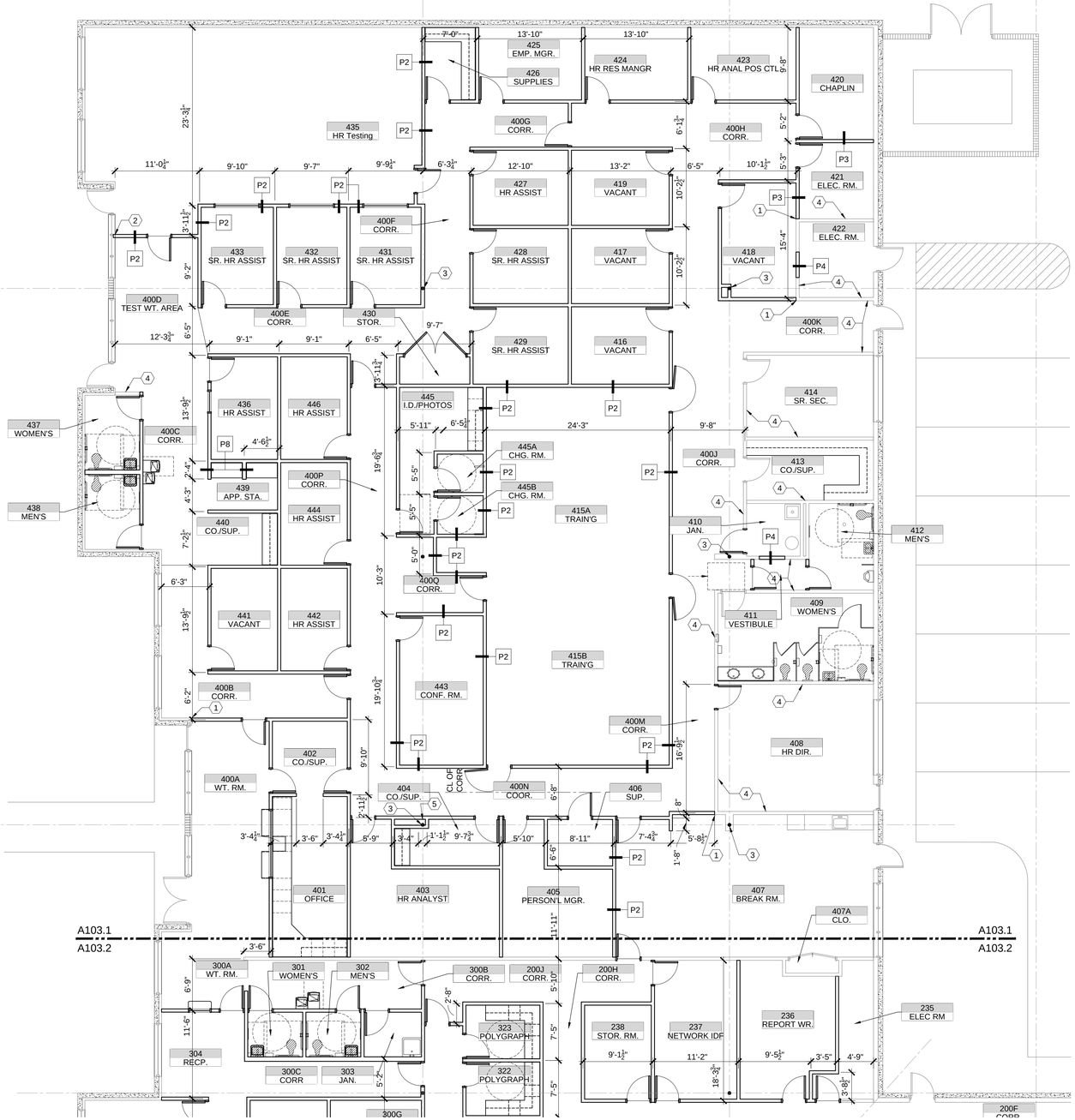
PARTIAL REFLECTED CEILING PLAN - ND

A102.2



GENERAL DIMENSION PLAN NOTES

1. PARTITION ARE TYPE P1, TYP. UNO.
2. ALL DIMENSIONS ARE FROM CENTERLINE OF NEW PARTITION AND FACE OF EXIST PARTITION, UNO.
3. GWB SHALL REMAIN ON ALL EXTERIOR WALLS. REPAIR / PATCH / PNT AREAS WHERE INTERSECTING PARTITIONS WERE REMOVED.
4. SEE ENLARGED TOILET ROOM PLANS, SHEET A700, FOR PARTITION TYPES AT TOILET ROOMS.

SPECIFIC DIMENSION PLAN NOTES

1. ALIGN FACE OF NEW PARTITION WITH FACE OF EXIST PARTITION.
2. ALIGN PARTITION WITH EXIST MULLION.
3. EXIST STL COL.
4. EXIST PARTITION TO REMAIN.
5. PARTITION TYPE P6 @ COL WRAP.

0 4' 8' 16'

PARTIAL DIMENSION PLAN - HR 1/8" = 1'-0" | A3 | NOTES | A1

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BUILDING AREA NOT IN SCOPE

N

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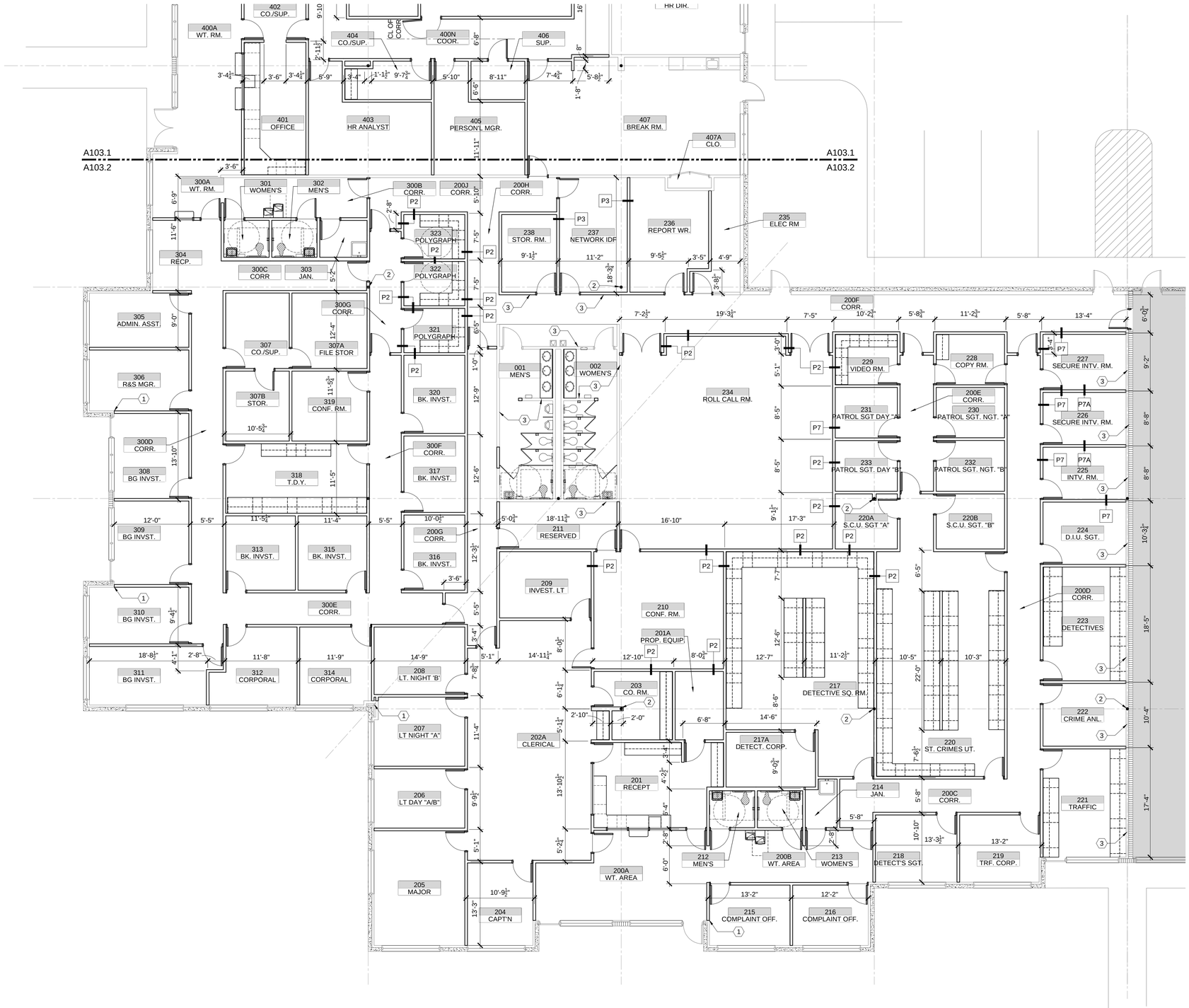
PARTIAL DIMENSION PLAN - HR

A103.1



GENERAL DIMENSION PLAN NOTES

1. PARTITION ARE TYPE P1, TYP. UNO.
2. ALL DIMENSIONS ARE FROM CENTERLINE OF NEW PARTITION AND FACE OF EXIST PARTITION, UNO.
3. GWB SHALL REMAIN ON ALL EXTERIOR WALLS. REPAIR / PATCH / PNT AREAS WHERE INTERSECTING PARTITIONS WERE REMOVED.
4. SEE ENLARGED TOILET ROOM PLANS, SHEET A700, FOR PARTITION TYPES AT TOILET ROOMS

SPECIFIC DIMENSION PLAN NOTES

1. ALIGN FACE OF NEW PARTITION WITH FACE OF EXIST PARTITION.
2. EXIST STL COL.
3. EXIST PARTITION TO REMAIN.

PARTIAL DIMENSION PLAN - ND 1/8" = 1'-0" A3

NOTES A1

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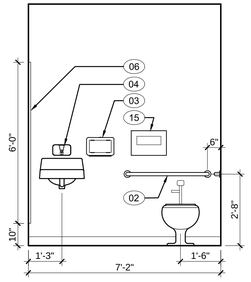
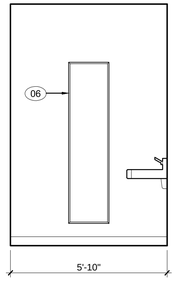
PARTIAL DIMENSION PLAN - ND

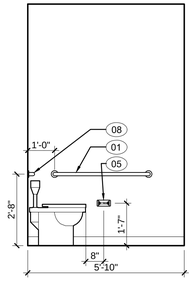
A103.2



NEW TOILET ROOM ELEVATION — 3/8" = 1'-0" — J12



NEW TOILET ROOM ELEVATION — 3/8" = 1'-0" — J10



NEW TOILET ROOM ELEVATION — 3/8" = 1'-0" — J8

TOILET ACCESSORY SCHEDULE

NUMBER	DESCRIPTION	REMARKS
01	42" GRAB BAR	MOUNT 32" AFF
02	36" GRAB BAR	MOUNT 32" AFF
03	PAPER TOWEL DISPENSER	--
04	SOAP DISPENSER	MOUNT ABOVE LAVATORY
05	TOILET PAPER DISPENSER	--
06	FRAMED MIRROR, 18" X 60"	BOTTOM EDGE OF MIRROR 10" AFF
07	ELECTRIC HAND DRYER	CONTRACTOR TO PROVIDE POWER
08	PLASTIC LAMINATE TOILET PARTITIONS	--
09	FRAMED MIRROR	LENGTH TO EQUAL COUNTERTOP. HIEGHT FROM TOP OF COUNTER TO 7'0"AFF
10	SANITARY NAPKIN DISPOSAL UNIT	--
11	MOP AND BROOM HOLDER	--
12	UNDERCOUNTER LAVATORY GUARD	--
13	STAINLESS STEEL PANEL	PROVIDE AND INSTALL STAINLESS STEEL PANEL SURROUND AT MOP SINK TO 5'-0" AFF
14	SANITARY NAPKIN DISPENSER	--
15	TOILET SEAT COVER DISPENSER	--

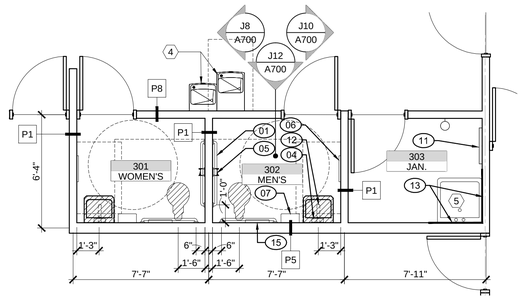
SPECIFIC TOILET PLAN NOTES

1. WATER HEATER TO REMAIN
2. MOP SINK TO REMAIN
3. EXIST DRINKING FOUNTAIN TO REMAIN
4. NEW DRINKING FOUNTAIN
5. NEW MOP SINK
6. EXTEND EXIST PARTITION AS REQUIRD FOR INSTALLATION OF TOILET PARTITION
7. EXISTING, RELOCATED DRINKING FOUNTAIN

TOILET PLAN GENERAL NOTES

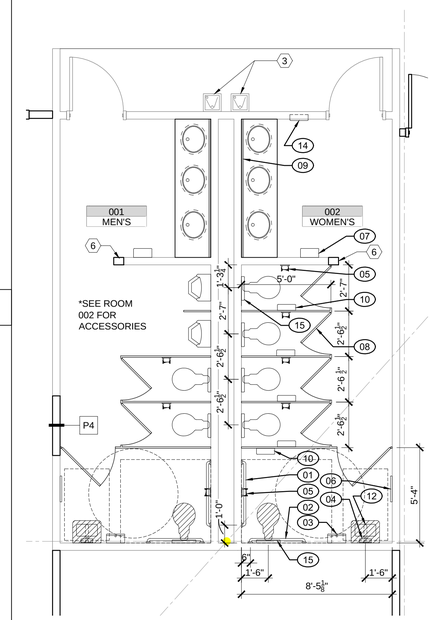
1. SEE ELEVATIONS J8, J10 & J12 FOR TYPICAL TOILET ACCESSORY MOUNTING HEIGHTS.

TOILET ACCESSORY SCHEDULE, TOILET PLAN SPECIFIC NOTES — K1



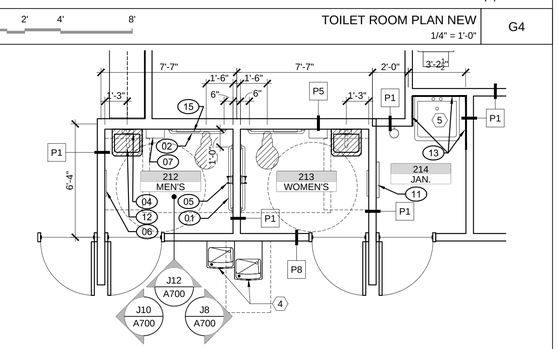
0 2' 4' 8'

TOILET ROOM PLAN NEW — 1/4" = 1'-0" — G4



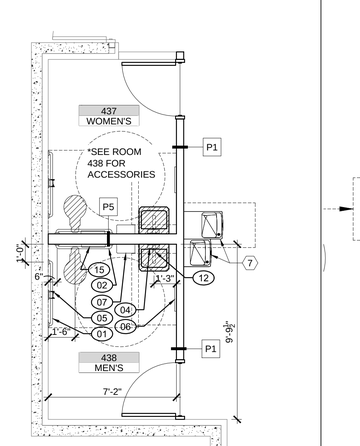
0 2' 4' 8'

TOILET ROOM PLAN EXISTING — 1/4" = 1'-0" — E1



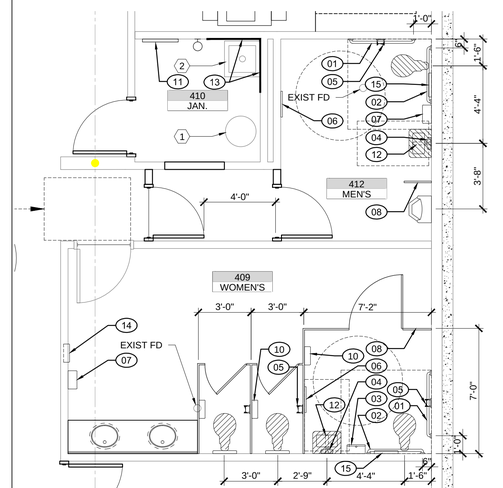
0 2' 4' 8'

TOILET ROOM PLAN NEW — 1/4" = 1'-0" — E4



0 2' 4' 8'

TOILET ROOM PLAN EXISTING — 1/4" = 1'-0" — A4



0 2' 4' 8'

TOILET ROOM PLAN EXISTING — 1/4" = 1'-0" — A1

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TOLIET ROOM PLANS

A700

FINISH SCHEDULE R./S.

ROOM NUMBER	ROOM NAME	FLOOR	BASE	FINISH						REMARKS
				WALLS				CEILING		
				SOUTH	EAST	WEST	NORTH	HEIGHT	FINISH	
300A	WAITING ROOM	VCT	RWB	PLAM	PLAM	PLAM	PLAM	9'-8"	APC	2
300B	CORRIDOR	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
300C	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
300D	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
300E	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
300F	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
300G	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
301	WOMEN'S	CT	CT	CT/EPXY	EPXY	EPXY	EPXY	9'-8"	APC	1
302	MEN'S	CT	CT	CT/EPXY	EPXY	EPXY	EPXY	9'-8"	APC	1
303	JANITORAL	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
304	RECEPTION	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
305	ADMINISTRATION ASSISTANT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
306	R&S MANAGER	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
307	COPY/SUPPLIES	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
307A	FILE STORAGE	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
307B	STORAGE SHELVING	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
308	BACKGROUND INVESTIGATOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
309	BACKGROUND INVESTIGATOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
310	BACKGROUND INVESTIGATOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
311	BACKGROUND INVESTIGATOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
312	CORPORAL	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
313	BACKGROUND INVESTIGATOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
314	CORPORAL	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
315	BACKGROUND INVESTIGATOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
316	BACKGROUND INVESTIGATOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
317	BACKGROUND INVESTIGATOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
318	T.D.Y.	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
319	CONFERENCE ROOM	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
320	BACKGROUND INVESTIGATOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-

FINISH SCHEDULE R./S. | G3

FINISH SCHEDULE REMARKS

1. IN TOILET ROOMS WHERE WALL TILE IS SCHEDULED, TILE SHALL RUN FULL WIDTH OF WALL AND TO A HEIGHT OF 6'-0". PROVIDE CEMENT BACKERBOARD AS A SUBSTRATE FOR THE TILE.
2. PLAS LAM PANEL WALL FINISH. SEE PARTITION TYPE P8.

FINISH SCHEDULE ABBREVIATIONS

APC	ACOUSTICAL PANEL CEILING
CPT	CARPET TILE
CT	CERAMIC TILE
EPXY	EPOXY PAINT ON GYPSUM WALLBOARD
EXST	EXISTING FINISH TO REMAIN
PLAM	PLASTIC LAMINATE PANEL
PNT	PAINTED GYPSUM WALLBOARD
RWB	RESILIENT WALL BASE
SC	SEALED CONCRETE
VCT	VINYL COMPOSITION TILE

FINISH SCHEDULE N.D.

ROOM NUMBER	ROOM NAME	FLOOR	BASE	FINISH						REMARKS
				WALLS				CEILING		
				SOUTH	EAST	WEST	NORTH	HEIGHT	FINISH	
001	MEN'S	CT	CT	CT/EPXY	CT/EPXY	EPXY	EPXY	9'-8"	APC	1
002	WOMEN'S	CT	CT	CT/EPXY	EPXY	CT/EPXY	EPXY	9'-8"	APC	1
200A	WAITING AREA	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	2
200B	WAITING AREA	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	2
200C	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
200D	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
200E	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
200F	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
200G	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
200H	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
200J	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
201	RECEPTION	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
201A	PROP. EQUIPMENT	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
202A	CLERICAL	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
203	COPY ROOM	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
204	CAPTAIN	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
205	MAJOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
206	LIEUTENANT DAT "A/B"	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
207	LIEUTENANT NIGHT "A"	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
208	LIEUTENANT NIGHT "B"	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
209	INVESTIGATIVE LIUTENANT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
210	CONFERENCE ROOM	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
211	RESERVED	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
212	MEN'S	CT	CT	EPXY	EPXY	EPXY	CT/EPXY	9'-8"	APC	1
213	WOMEN'S	CT	CT	EPXY	EPXY	EPXY	CT/EPXY	9'-8"	APC	1
214	JANITORAL	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
215	COMPLAINT OFFICE	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
216	COMPLAINT OFFICE	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
217	DETECTIVE SQUAD ROOM	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
217A	DETECTIVE CORPORAL	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
218	DETECTIVE'S SERGENT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
219	TRAFFIC CORPORAL	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
220	STREET CRIMES UNIT (S.C.U.)	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
220A	S.C.U.SERGENT "A"	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
220B	S.C.U. SERGENT "B"	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
221	TRAFFIC	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
222	CRIME ANALYST	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
223	DETECTIVES	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
224	D.I.U. SERGENT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
225	INTERVIEW ROOM	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
226	SECURE INTERVIEW ROOM.	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
227	SECURE INTERVIEW ROOM	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
228	COPY ROOM	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
229	VIDEO DISPOSITION ROOM	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
230	PATROL SERGENT NIGHT "A"	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
231	PATROL SERGENT DAY "A"	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
232	PATORL SERGENT NIGHT "B"	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
233	PATROL SERGENT DAY "B"	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
234	ROLL CALL ROOM	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
235	ELECTRICAL ROOM	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
236	REPORT WRITING	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
237	NETWORK IDF	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
238	STORAGE ROOM	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-

FINISH SCHEDULE N.D. | A9

FINISH SCHEDULE H.R.

ROOM NUMBER	ROOM NAME	FLOOR	BASE	FINISH						REMARKS
				WALLS				CEILING		
				SOUTH	EAST	WEST	NORTH	HEIGHT	FINISH	
400A	WAITING ROOM	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	2
400B	CORRIDOR	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
400C	CORRIDOR	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
400D	TESTING WAITING AREA	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
400E	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
400F	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
400G	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
400H	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
400J	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
400K	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
400M	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
400N	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
400P	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
400Q	CORRIDOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
401	OFFICE	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
402	COPY/SUPPLY	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
403	HR ANALYSIT RETIREMENT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
404	COPY/SUPPLIES	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
405	PERSONNEL MANAGER	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
406	SUPPLIES	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
407	BREAK ROOM	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
407A	CLOSET	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
408	HR DIRECTOR	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
409	WOMEN'S	CT	CT	CT/EPXY	EPXY	CT/EPXY	EPXY	9'-8"	APC	1
410	JANITORAL	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
411	VESTIBULE	CT	CT	PNT	PNT	PNT	PNT	9'-8"	APC	-
412	MEN'S	CT	CT	EPXY	CT/EPXY	EPXY	EPXY	9'-8"	APC	1
413	COPY/SUPPLIES	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
414	SENIOR SECRETARY	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
415A	ORIENTATION TRAINING	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
415B	ORIENTATION TRAINING	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
416	VACANT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
417	VACANT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
418	VACANT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
419	VACANT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
420	CHAPLIN	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
421	ELECTRICAL ROOM	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
422	ELECTRCAL ROOM	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
423	HR ANAL POS CTL	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
424	HR RESEARCH MANAGER	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
425	EMPLOYMENT MANAGER	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
426	SUPPLIES	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
427	HR ASSISTANT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
428	SR. HR ASSISTANT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
429	SR. HR ASSISTANT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
430	STORAGE	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
431	SR. HR ASSISTANT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
432	SR. HR ASSISTANT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
433	SEINOR HR ASSISTANT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
435	HR TESTING ROOM	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
436	HR ASSISTANT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
437	WOMEN'S	CT	CT	CT/EPXY	EPXY	EPXY	EPXY	9'-8"	APC	1
438	MEN'S	CT	CT	EPXY	EPXY	EPXY	CT/EPXY	9'-8"	APC	1
439	APPLICATION STATIONS	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
440	COPY/SUPPLIES	VCT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
441	VACANT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
442	HR ASSISTANT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
443	CONFERENCE ROOM	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
444	HR ASSISTANT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
445	I.D./PHOTOS	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
445A	CUBICLE CHANGING ROOM	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
445B	CUBICLE CHANGING ROOM	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-
446	HR ASSISTANT	CPT	RWB	PNT	PNT	PNT	PNT	9'-8"	APC	-

FINISH SCHEDULE H.R. | A3

NOTES | A1

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WILDERARCHITECTURE, INC.

HILLSBOROUGH COUNTY
SHERIFF'S OFFICE
2008 EAST 8TH AVENUE
TAMPA, FLORIDA 33605

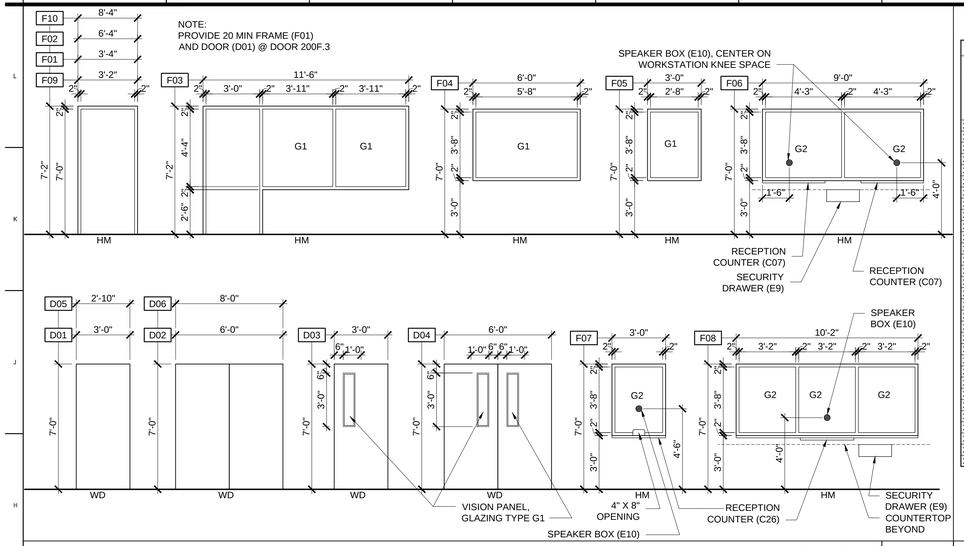
HILLSBOROUGH COUNTY SHERIFF'S OFFICE
RENOVATIONS
PINEBROOKE BUSINESS PARK

PROJECT #: 1505-00

DISTRIBUTION	DATE
CD CHECK SET	10/15/15
100% CONST. DOCS	11/16/15

FINISH SCHEDULES

A800



DOOR AND FRAME ELEVATIONS
1/4" = 1'-0" | H9

DOOR SCHEDULE R.S.

OPENING NUMBER	ROOM NAME	DOOR				FRAME					FIRE RATING	HDW SET	SIGNAGE SIGN TYPE "F"	REMARKS
		TYPE	MATL	INT	EXT	TYPE	MATL	DETAILS HEAD	JAMB	SILL			ROOM #	
300A	WT. RM.	D03	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	14	300A	2
300B	CORR.	D03	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	07	300B	2
300C	CORR	D03	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	07	300C	--
300G	CORR.	D03	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	07	300G	--
301	WOMEN'S	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	11	301	--
302	MEN'S	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	11	302	--
303	JAN.	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	09	303	--
305	ADMIN. ASST.	D01	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	04	305	--
306	R&S MGR.	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	306	--
307	CO./SUP.	D03	WD			F01	HM	K4/A802	G4,K4/A802	--	--	04	307	--
307A	FILE STOR	D03	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	17	307A	--
307B	STOR.	D01	WD	•		F01	HM	K4/A802	K4/A802	--	--	17	307B	--
308.1	BG INVST.	EXIST	ALUM		•	EXIST	ALUM	--	--	--	--	19	308	1
308.2	BG INVST.	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	308	--
309.1	BG INVST.	EXIST	ALUM		•	EXIST	ALUM	--	--	--	--	19	309	1
309.2	BG INVST.	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	309	--
310	BG INVST.	D01	WD	•		F01	HM	K4/A802	D4/K4/A802	--	--	04	310	--
311	BG INVST.	D01	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	04	311	--
312	CORPORAL	D01	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	04	312	--
313	BK. INVST.	D01	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	04	313	
314	CORPORAL	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	314	--
315	BK. INVST.	D01	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	04	315	--
316	BK. INVST.	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	316	--
317	BK. INVST.	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	317	--
318.1	T.D.Y.	D03	WD			F01	HM	K4/A802	G4,K4/A802	--	--	09	318	--
318.2	T.D.Y.	D03	WD			F01	HM	K4/A802	G4,K4/A802	--	--	09	318	--
319	CONF. RM.	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	09	319	--
320	BK. INVST.	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	320	--
321	POLYGRAPH	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	09	321	--
322	POLYGRAPH	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	09	322	--
323	POLYGRAPH	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	09	323	--

OPENING SCHEDULE R./S. | H3

DOOR SCHEDULE N.D.

OPENING NUMBER	ROOM NAME	DOOR				FRAME					FIRE RATING	HDW SET	SIGNAGE SIGN TYPE "F"	REMARKS
		TYPE	MATL	INT	EXT	TYPE	MATL	DETAILS HEAD	JAMB	SILL			ROOM #	
001	MEN'S	EXIST	WD	•		EXIST	HM	--	--	--	--	13	001	--
002	WOMEN'S	EXIST	WD	•		EXIST	HM	--	--	--	--	13	002	--
200A.1	WT. AREA	D03	WD	•		F01	HM	K4/A802	G1,K4/A802	--	--	14	200A	2
200A.2	WT. AREA	EXIST	ALUM		•	EXIST	ALUM	--	--	--	--	01	200A	1
200A.3	WT. AREA	EXIST	ALUM		•	EXIST	ALUM	--	--	--	--	19	200A	--
200B	WT. AREA	D03	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	09	200B	2
200D	CORR.	D03	WD	•		F01	HM	K4/A802	A4,K4/A802	--	--	09	200D	2
200E	CORR.	D03	WD	•		F01	HM	K4/A802	A4,K4/A802	--	--	09	200E	2
200F.1	CORR.	EXIST	ALUM		•	EXIST	ALUM	--	--	--	--	03	200F	--
200F.2	CORR.	EXIST	ALUM		•	EXIST	ALUM	--	--	--	--	03	200F	--
200F.3	CORR.	D01	WD	•		F01	HM	G10/A802	G7/A802	--	20 MIN	--	200F	--
200G.1	CORR.	D03	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	14	200G	2
200G.2	CORR.	D03	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	14	200G	2
200H	CORR.	D03	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	14	200H	2
200J	CORR.	D03	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	14	200J	--
201.1	RECEPT	D03	WD	•		F03	HM	K4/A802	K1,K4/A802	--	--	09	201	--
201.2	RECEPT	D03	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	14	201	2
201A	PROP. EQUIP.	D01	WD	•		F01	HM	K4/A802	K4/A802	--	--	06	201A	--
203	CO. RM.	D03	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	04	203	--
204	CAPT'N	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	204	--
205	MAJOR	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	205	--
206	LT DAY "A/B"	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	206	--
207	LT NIGHT "A"	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	04	207	--
208	LT. NIGHT 'B'	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	04	208	--
209	INVEST. LT	D01	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	04	209	--
210.1	CONF. RM.	D03	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	09	210	--
210.2	CONF. RM.	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	09	210	--
211.1	RESERVED	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	14	211	2
211.2	RESERVED	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	04	211	--
212	MEN'S	D01	WD	•		F01	HM	K4/A802	D4,K4/802	--	--	11	212	--
213	WOMEN'S	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	11	213	--
214	WT. AREA	D01	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	09	200B	--
215	COMPLAINT OFF.	D01	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	04	215	--
216	COMPLAINT OFF	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	216	--
217	DETECTIVE SQ. RM.	D03	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	09	217	--
217A	DETECT. CORP.	D01	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	04	217A	--
218	DETECT'S SGT.	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	218	--
219	TRF. CORP.	D01	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	04	219	--
220.1	CORR.	D03	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	09	200E	--
220.2	ST. CRIMES UT.	D03	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	09	220	--
220.3	ST. CRIMES UT.	D03	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	09	220	--
220A	S.C.U. SGT "A"	D01	WD	•		F01	HM	K4/A802	K4/A802	--	--	04	220A	--
220B	S.C.U. SGT. "B"	D01	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	04	220B	--
221.1	TRAFFIC	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	221	--
221.2	TRAFFIC	EXIST	ALUM		•	EXIST	ALUM	--	--	--	--	19	221	1
222	CRIME ANL.	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	04	222	--
223	DETECTIVES	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	04	223	--
224	D.I.U. SGT.	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	224	--
225	INTV. RM.	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	09	225	--
226	SECURE INTV. RM.	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	09	226	--
227	SECURE INTV. RM.	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	09	227	--
228.1	COPY RM.	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	09	228	--
228.2	COPY RM.	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	09	228	--
229	VIDEO RM.	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	09	229	--
230	PATROL SGT. NGT. "A"	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	04	230	--
231	PATROL SGT DAY "A"	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	04	231	--
232	PATROL SGT. NGT. "B"	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	04	232	--
233	PATROL SGT. DAY "B"	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	04	233	--
234.1	ROLL CALL RM.	D04	WD	•		F02	HM	K4/A802	A4,K6/A802	--	--	15	234	2
234.2	ROLL CALL RM.	D04	WD	•		F02	HM	K4/A802	A4,K6/A802	--	--	15	234	2
235	ELEC RM	D01	WD	•		F01	HM	K4/A802	A1,K4/A802	--	--	06	235	--
236	REPORT WR.	D03	WD	•		F01	HM	K4/A802	A1,K4/A802	--	--	14	236	2
237.1	NETWORK IDF	D01	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	06	237	2
237.2	NETWORK IDF	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	06	237	2
238	STOR. RM.	D03	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	06	238	2

OPENING SCHEDULE N.D. | A9

DOOR SCHEDULE H.R.

OPENING NUMBER	ROOM NAME	DOOR				FRAME					FIRE RATING	HDW SET	SIGNAGE SIGN TYPE "F"	REMARKS
		TYPE	MATL	INT	EXT	TYPE	MATL	DETAILS HEAD	JAMB	SILL			ROOM #	
400A.1	WT. RM.	EXIST	ALUM		•	EXIST	ALUM	--	--	--	--	19	400A	1
400A.2	WT. RM.	D03	WD	•		F01	HM	K4/A802	G1,K4/A802	--	--	14	400A	2
400A.3	WT. RM.	EXIST	ALUM		•	EXIST	ALUM	--	--	--	--	02	400A	--
400B	CORR.	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	14	400B	2
400D	TEST WT. AREA	EXIST	ALUM		•	EXIST	ALUM	--	--	--	--	01	400D	--
400E	CORR.	D03	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	14	400E	2
400G	CORR.	D03	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	14	400G	2
400K	CORR.	EXIST	ALUM		•	EXIST	ALUM	--	--	--	--	03	400K	--
402.1	CO./SUP.	D03	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	14	402	2
402.2	CO./SUP.	D03	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	402	--
403	HR ANALYST	D01	WD	•		F01	HM	K4/A802	D4,K4/A802	--	--	04	403	--
404	CO./SUP.	D03	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	04	404	--
405	PERSON'L MGR.	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	04	405	--
406	SUP.	D01	WD	•		F01	HM	K4/A802	K4/A802	--	--	04	406	--
407.1	BREAK RM.	D03	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	14	407	2
407.3	BREAK RM.	D03	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	09	407	--
407A	CLO.	EXIST	WD			EXIST	HM	--	--	--	--	18	407A	--
408.1	HR DIR.	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	408	--
409	WOMEN'S	EXIST	WD			EXIST	HM	--	--	--	--	13	409	--
410	CORR.	EXIST	WD			EXIST	HM	K4/A802	D4,K4/A802	--	--	10	400J	--
412.1	VESTIBULE	D05	WD	•		F09	HM	K4/A802	D4,K4/A802	--	--	12	411	2
412.2	MEN'S	D05	WD	•		F09	HM	K4/A802	D4,K4/A802	--	--	12	412	2
413	CO./SUP.	D03	WD	•		EXIST	HM	--	--	--	--	05	413	--
414	SR. SEC.	EXIST	WD	•		EXIST	HM	--	--	--	--	05	414	--
415A.1	TRAIN'G	D03	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	09	415A	--
415A.2	TRAIN'G	D03	WD	•		F01	HM	K4/A802	K4/A802	--	--	09	415A	--
415A.3	TRAIN'G	D03	WD	•		F01	HM	K4/A802	K4/A802	--	--	09	415B	--
415B	TRAIN'G	D03	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	09	415B	--
416	VACANT	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	416	--
417	VACANT	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	417	--
418	VACANT	D01	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	04	418	--
419	VACANT	D01	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	04	419	--
420	CHAPLIN	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	06	420	--
421	ELEC. RM.	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	06	421	--
422	ELEC. RM.	EXIST	ALUM		•	EXIST	ALUM	--	--	--	--	03	422	--
423	HR ANAL POS CTL	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	423	--
424	HR RES MANGR	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	424	--
425	EMP. MGR.	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	425	--
426	SUPPLIES	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	09	426	--
427	HR ASSIST	D01	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	04	427	--
428	SR. HR ASSIST	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	428	--
429	SR. HR ASSIST	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	429	--
430	STOR.	D06	WD	•		F10	HM	K4/A802	K4/A802	--	--	16	430	--
431	SR. HR ASSIST	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	431	--
432	SR. HR ASSIST	D01	WD	•		F01	HM	K4/A802	G4,K4/A802	--	--	04	432	--
433	SR. HR ASSIST	D01	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	04	433	--
435.1	HR Testing	EXIST	ALUM		•	EXIST	ALUM	--	--	--	--	01	435	--
435.2	HR Testing	D03	WD	•		F01	HM	K4/A802	K4/A802	--	--	09	435	--
435.3	HR Testing	D03	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	14	435	--
436	HR ASSIST	D01	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	04	436	--
441	VACANT	D01	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	04	441	--
442	HR ASSIST	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	04	442	--
443	CONF. RM.	D01	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	09	443	--
444	HR ASSIST	D01	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	04	444	--
445	I.D./PHOTOS	D03	WD	•		F01	HM	K4/A802	K1,K4/A802	--	--	09	445	--
445A	CHG. RM.	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	11	445A	--
445B	CHG. RM.	D01	WD	•		F01	HM	K4/A802	D1,K4/A802	--	--	11	445B	--
446	HR ASSIST	D01	WD	•		F01	HM	K4/A802	G1,K4/A802	--	--	04	446	--

OPENING SCHEDULE H.R. | A3

DOOR SCHEDULE REMARKS

1. DOOR TO BE FIXED CLOSED.
2. CONTRACTOR TO PROVIDE THE FOLLOWING (FOR INSTALLATION OF PROXIMITY READER HARDWARE BY OTHERS):
   - JUNCTION BOX ADJACENT TO DOOR STRIKE FOR FUTURE INSTALLATION OF PROXIMITY READER
   - CONDUIT FROM JUNCTION BOX TO ABOVE CEILING
   - CONDUIT IN HM FRAME FROM DOOR STRIKE TO ABOVE CEILING
   - POWER FOR ELECTRIC STRIKE
   - POWER FOR HARDWARE CONTROLLERS

DOOR AND FRAME GENERAL NOTES

1. REUSE EXISTING DOORS AND FRAMES WHERE POSSIBLE.

FINISH SCHEDULE ABBREVIATIONS

ALUM	ALUMINUM
EXST	EXIST DOOR / FRAME TO REMAIN
HM	HOLLOW METAL
WD	FLUSH WOOD

NOTES | A1

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WILDER ARCHITECTURE, INC.

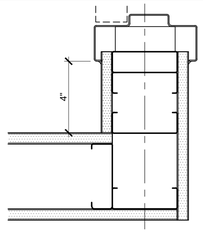
HILLSBOROUGH COUNTY SHERIFF'S OFFICE
RENOVATIONS
PINEBROOKE BUSINESS PARK

PROJECT #: 1505-00

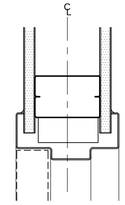
DISTRIBUTION	DATE
CD CHECK SET	10/15/2015
100% CONST. DOCS	11/16/15

OPENING SCHEDULES, DOOR AND FRAME ELEVATIONS

A801



0 2" 4" 8" JAMB DETAIL K6
3" = 1'-0"



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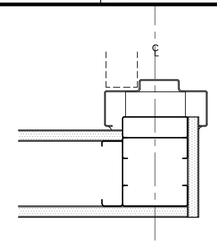

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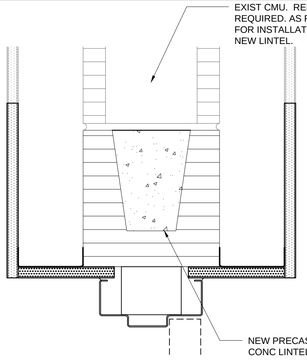

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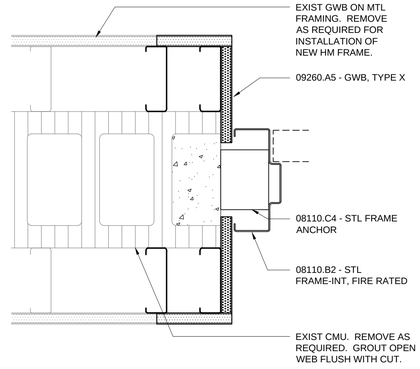
3" = 1'-0"



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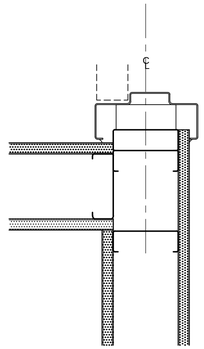

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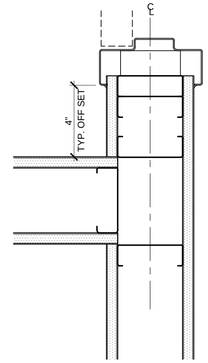

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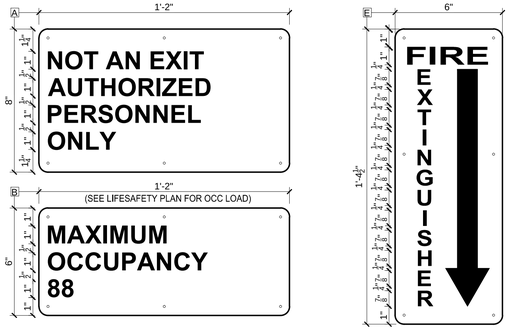
3" = 1'-0"



0 2" 4" 8" SIGNAGE ELEVATIONS A7
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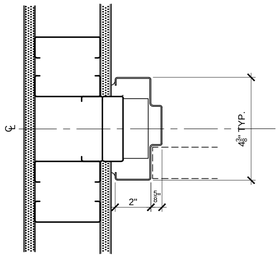

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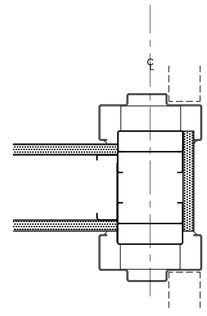

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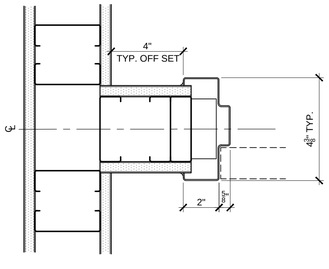

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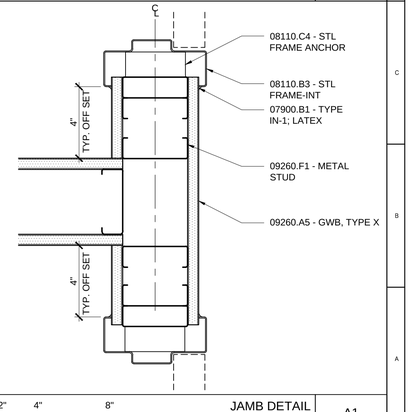

0 2" 4" 8" JAMB DETAIL A1
3" = 1'-0"

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2008 EAST 8TH AVENUE
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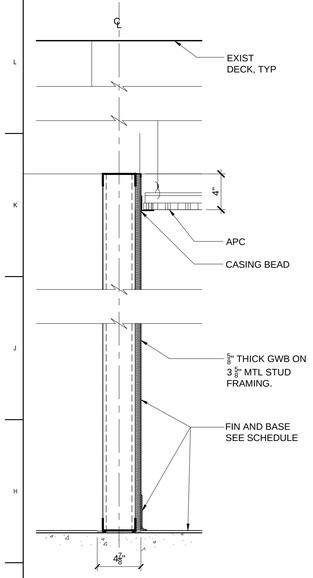
HILLSBOROUGH COUNTY SHERIFF'S OFFICE
RENOVATIONS
PINEBROOKE BUSINESS PARK

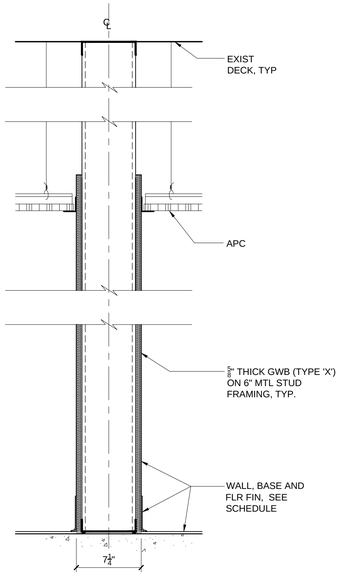
PROJECT #: 1505-00	
DISTRIBUTION	DATE
CD CHECK SET	10/15/15
100% CONST. DOCS	11/16/15

DOOR AND FRAME DETAILS

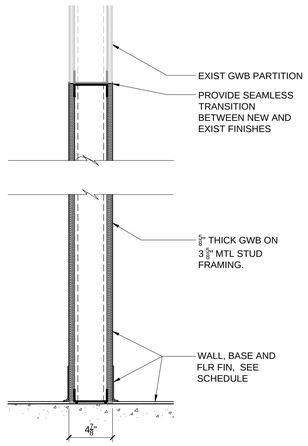
A802



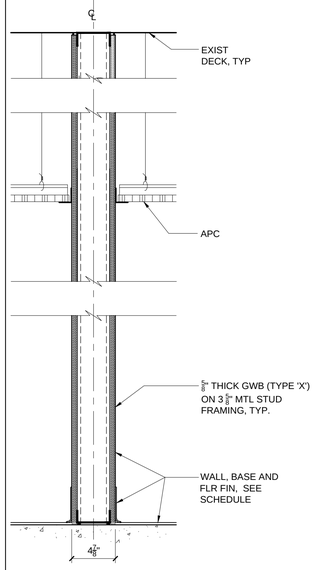
PARTITION TYPE P6 — 1 1/2" = 1'-0" — F13



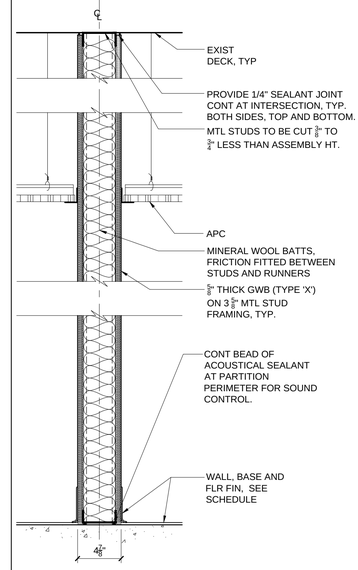
PARTITION TYPE P5 — 1 1/2" = 1'-0" — F11



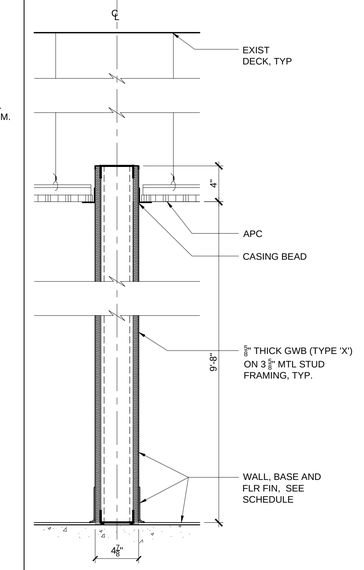
PARTITION TYPE P4 — 1 1/2" = 1'-0" — F8



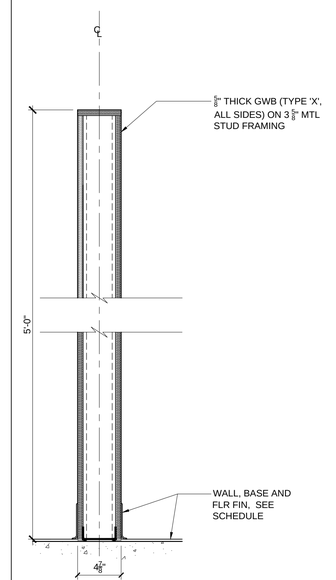
PARTITION TYPE P3 — 1 1/2" = 1'-0" — F6



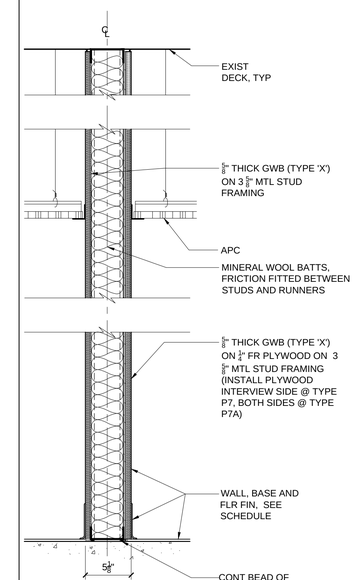
PARTITION TYPE P2 — 1 1/2" = 1'-0" — F3



PARTITION TYPE P1 — 1 1/2" = 1'-0" — F1



PARTITION TYPE P8 — 1 1/2" = 1'-0" — A3



PARTITION TYPE P7 P7A — 1 1/2" = 1'-0" — A1

1517 SEVENTH AVENUE
SUITE C
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2008 EAST 8TH AVENUE
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HILLSBOROUGH COUNTY SHERIFF'S OFFICE
RENOVATIONS
PINEBROOKE BUSINESS PARK

PROJECT #: 1505-00

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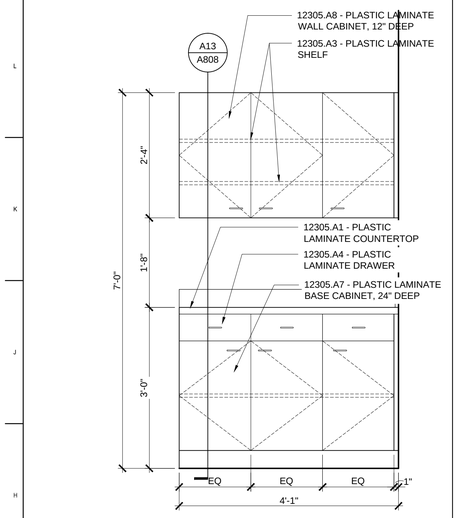
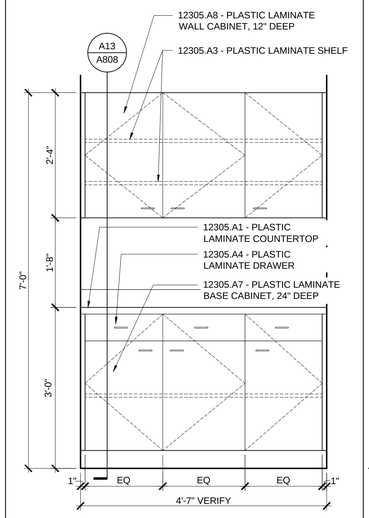
100% CONST. DOCS	11/16/15

PARTITION TYPES

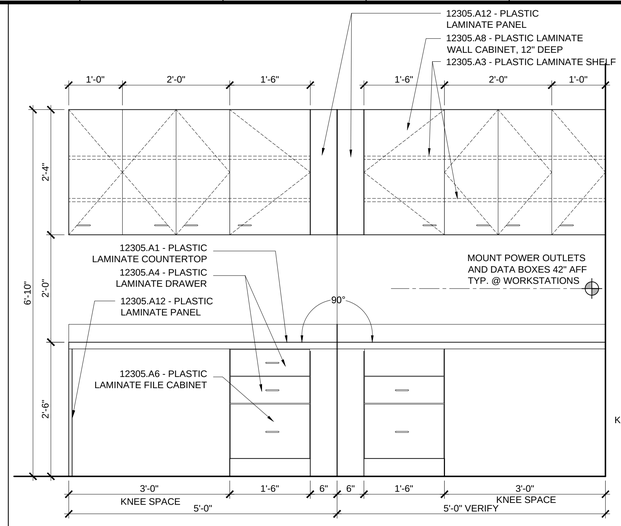
A803



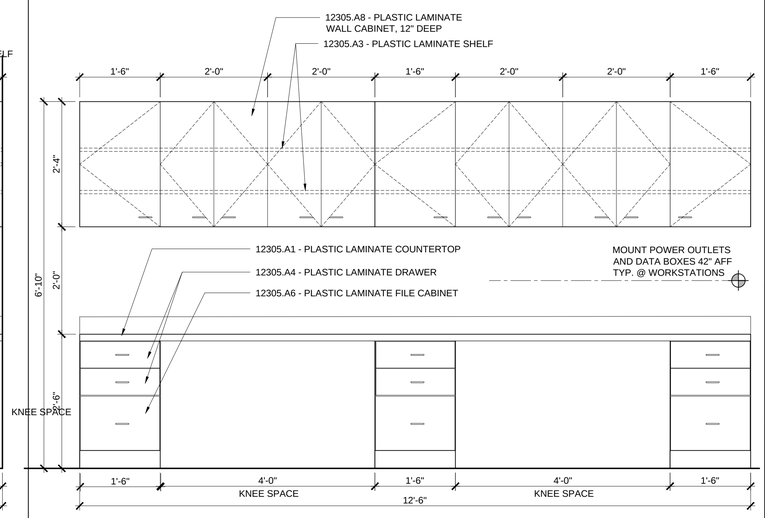
CASEWORK C14
3/4" = 1'-0"
H13



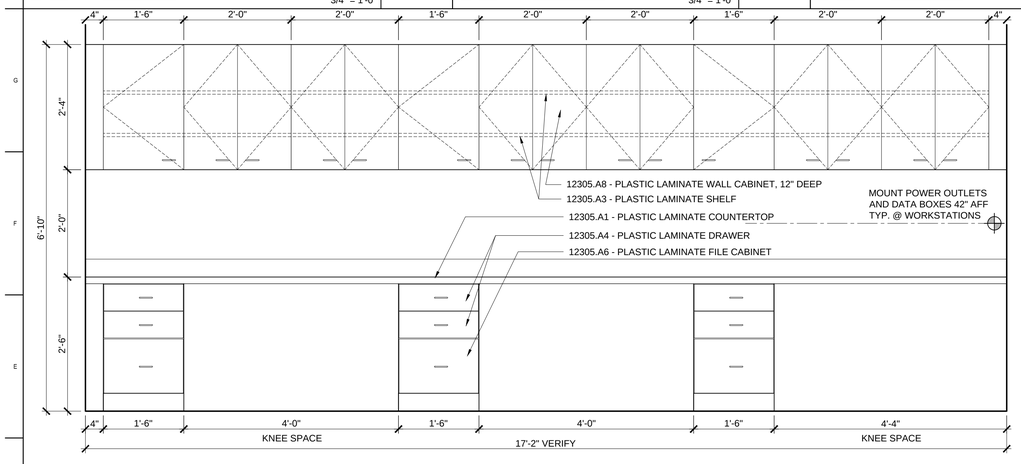
CASEWORK C08
3/4" = 1'-0"
H10



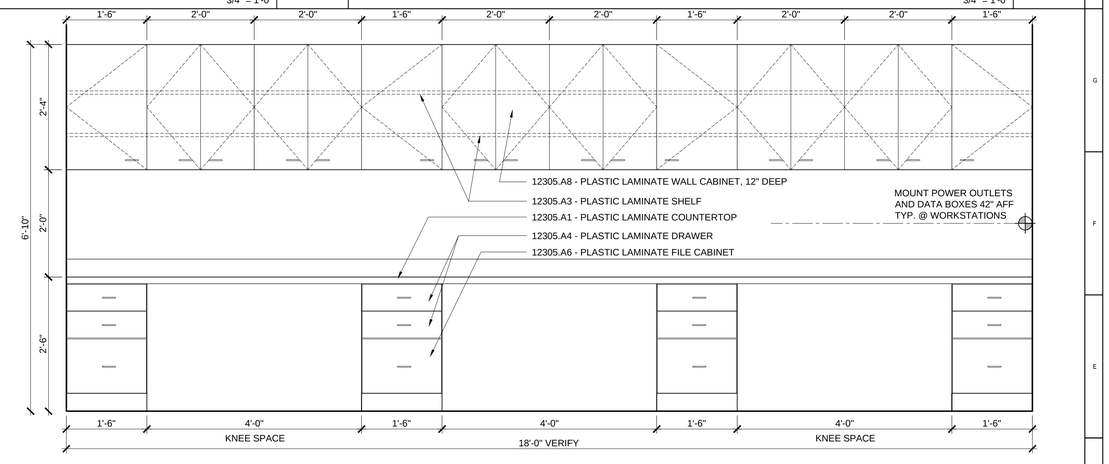
CASEWORK C06
3/4" = 1'-0"
H6



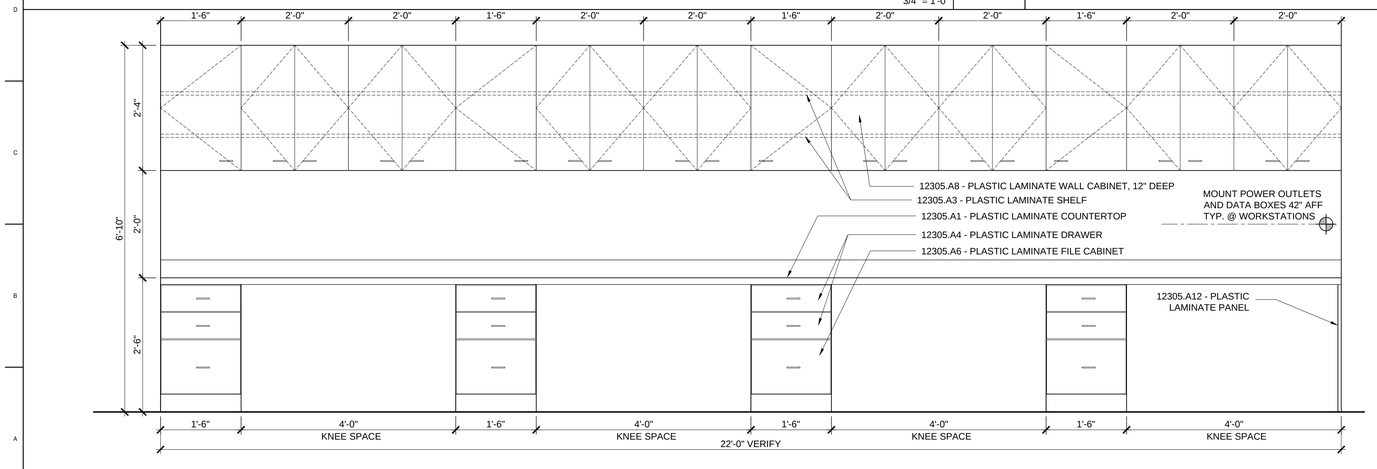
CASEWORK C05
3/4" = 1'-0"
H1



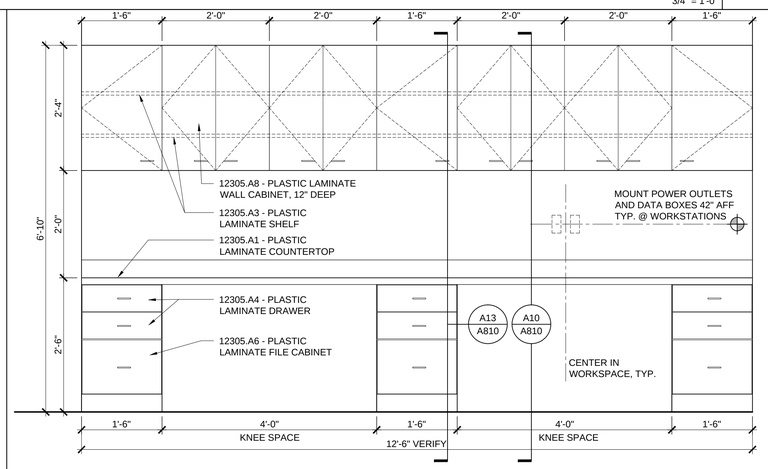
CASEWORK C04
3/4" = 1'-0"
D9



CASEWORK C03
3/4" = 1'-0"
D1



CASEWORK C02
3/4" = 1'-0"
A6



CASEWORK C01
3/4" = 1'-0"
A1

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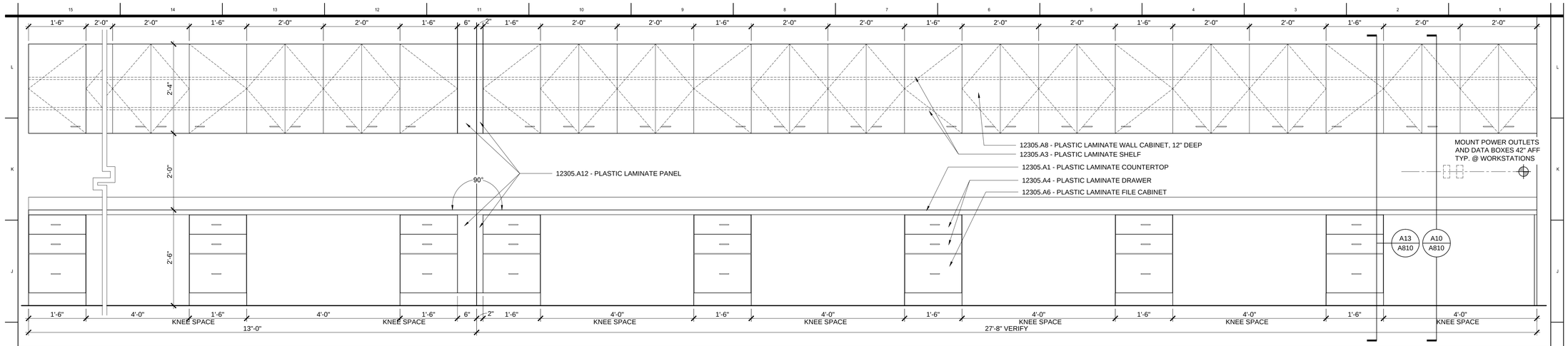
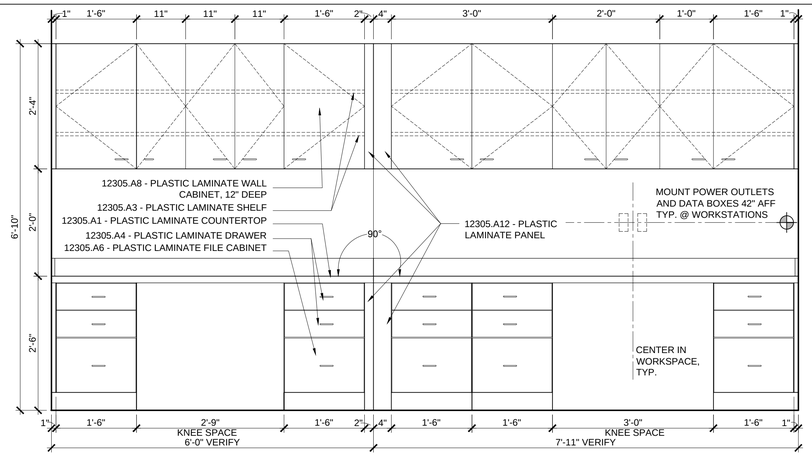
CASEWORK ELEVATIONS

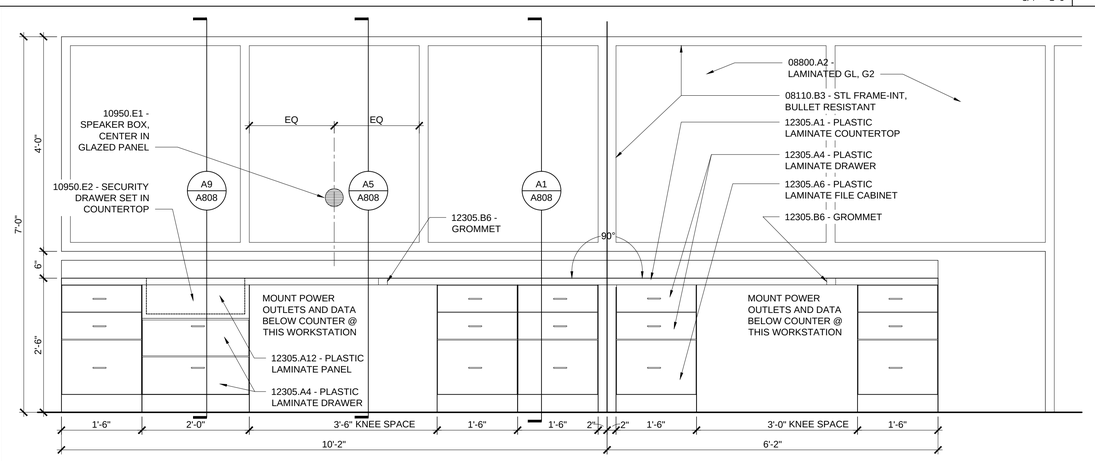
A804



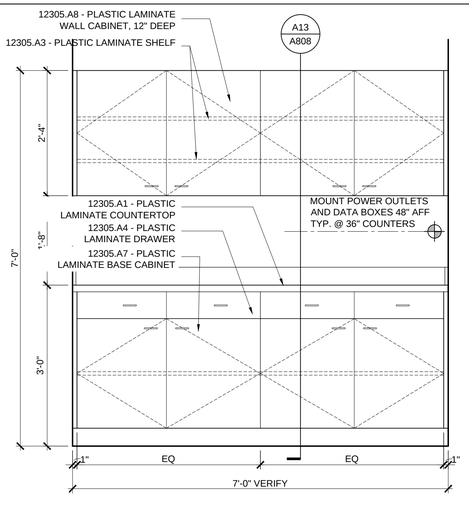
CASEWORK C16 — 3/4" = 1'-0" — H1



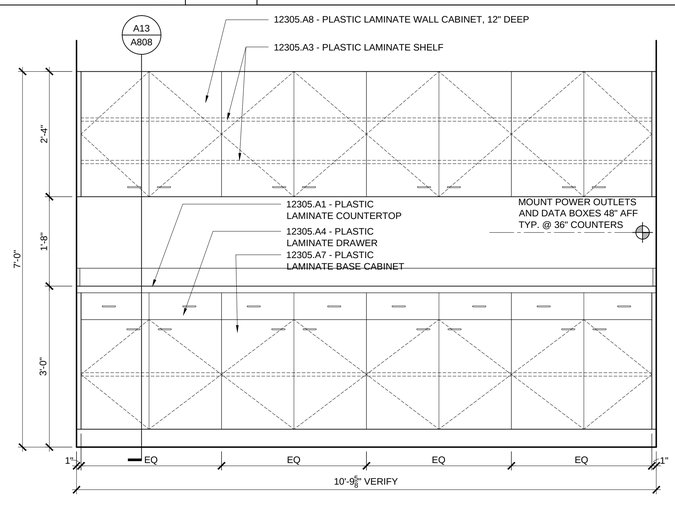
CASEWORK C15 — 3/4" = 1'-0" — E8



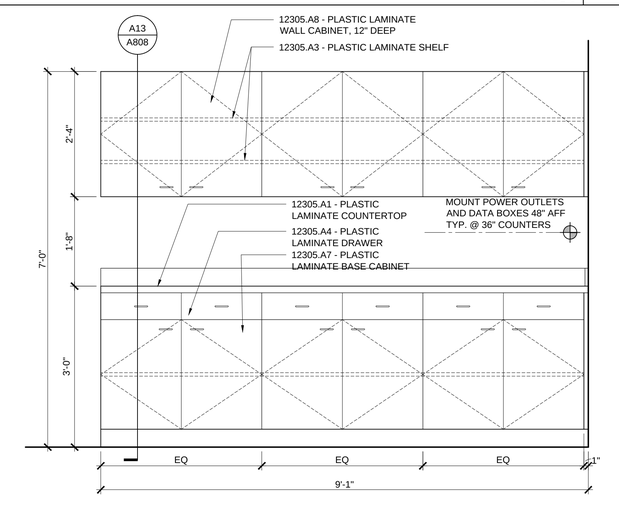
CASEWORK C12 — 3/4" = 1'-0" — E1



CASEWORK C11 — 3/4" = 1'-0" — A11



CASEWORK C10 — 3/4" = 1'-0" — A6



CASEWORK C09 — 3/4" = 1'-0" — A1

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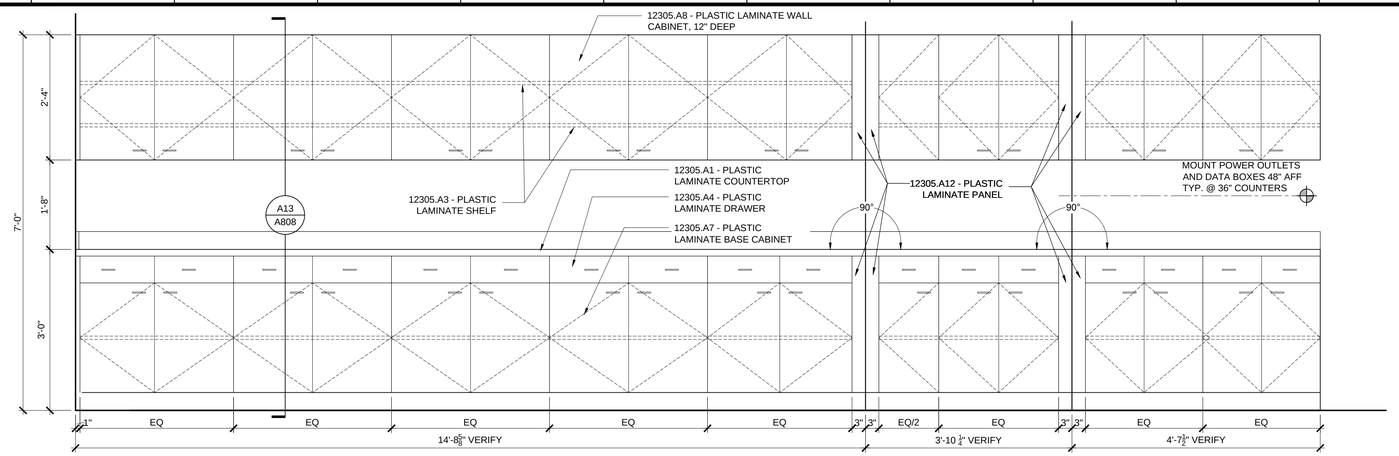
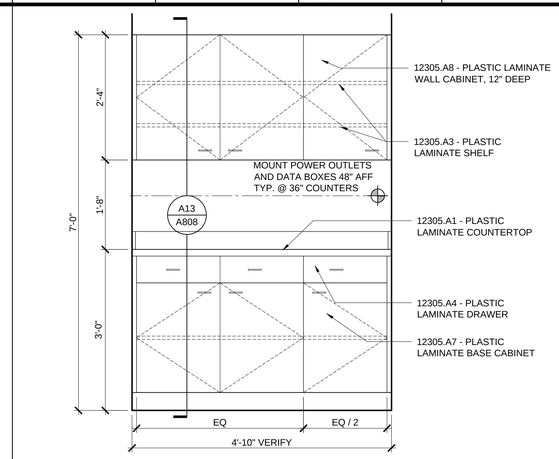
CASEWORK ELEVATIONS

A805



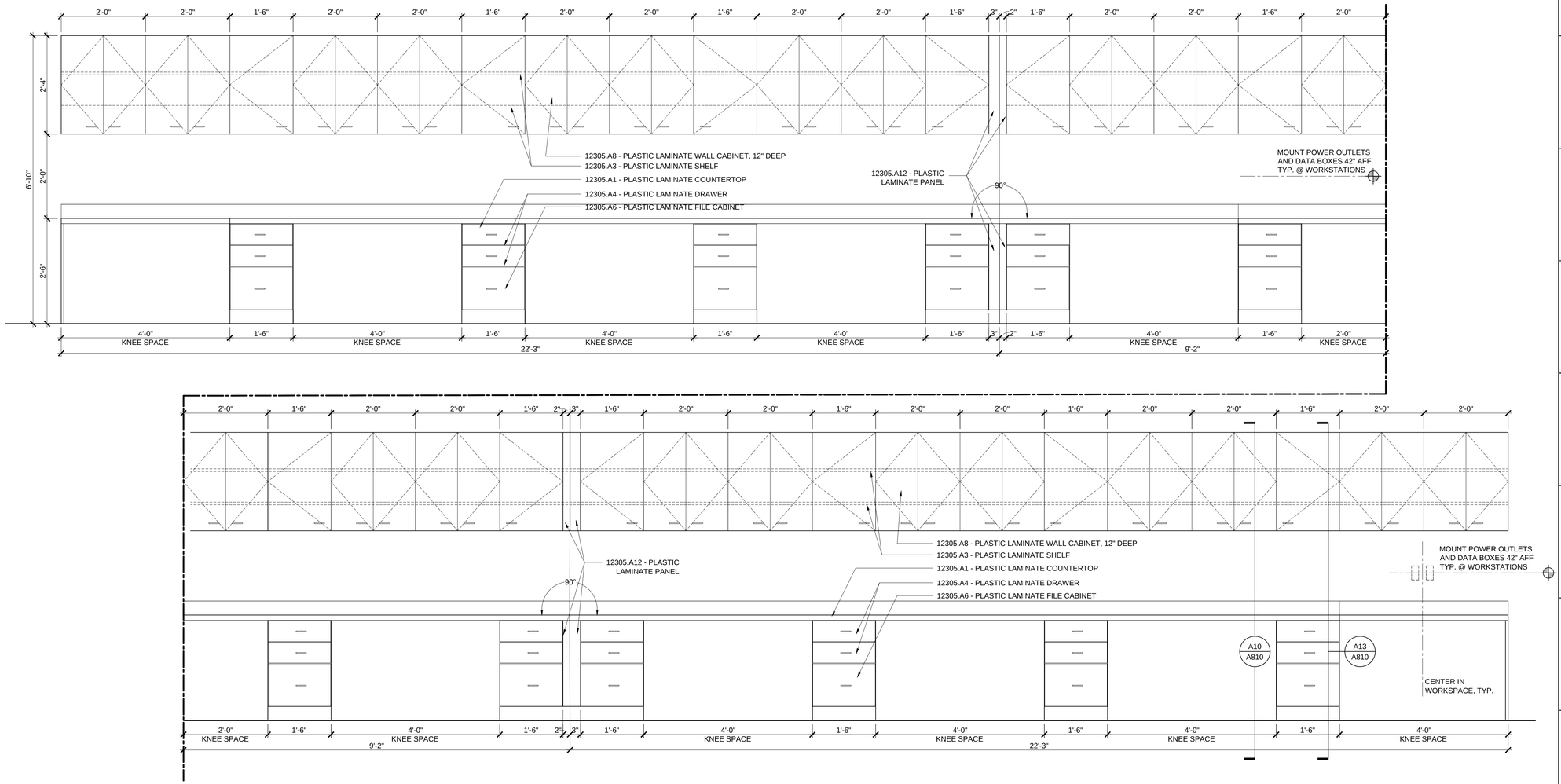
CASEWORK C23
3/4" = 1'-0"

H5



CASEWORK C20
3/4" = 1'-0"

H1



CASEWORK C17
3/4" = 1'-0"

A1

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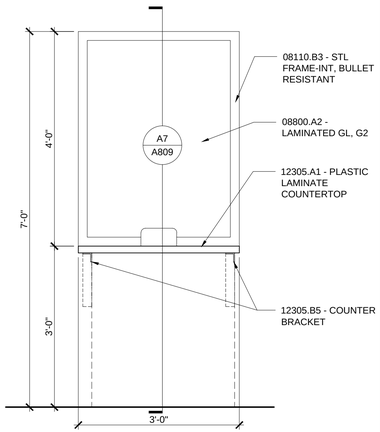
CASEWORK ELEVATIONS

A806

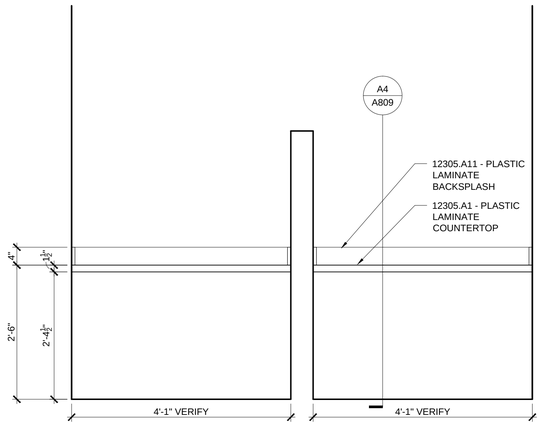


0 8" 1'-4" 2'-8"

CASEWORK C26

3/4" = 1'-0"

H9

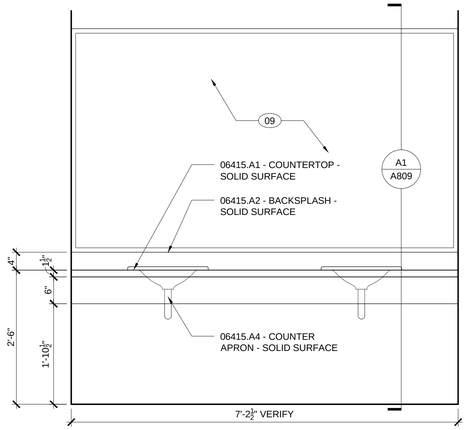


0 8" 1'-4" 2'-8"

CASEWORK C27

3/4" = 1'-0"

H9

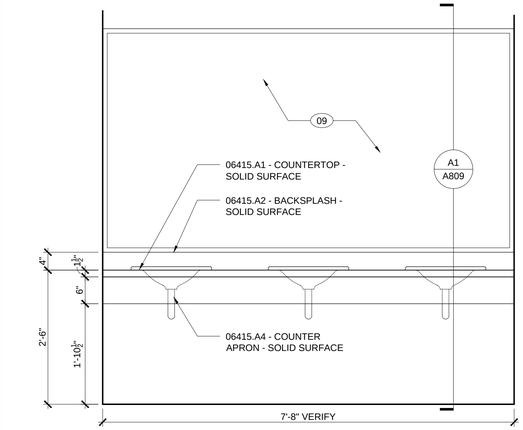


0 8" 1'-4" 2'-8"

CASEWORK C19

3/4" = 1'-0"

H5

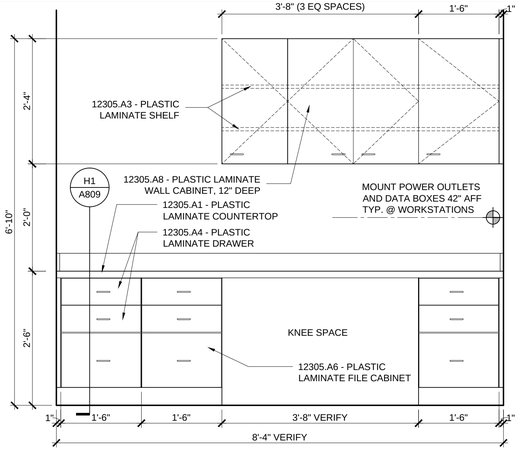


0 8" 1'-4" 2'-8"

CASEWORK C18

3/4" = 1'-0"

H1

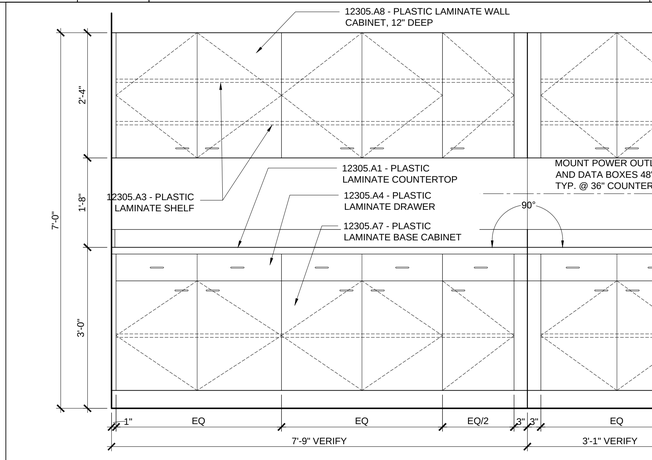


0 8" 1'-4" 2'-8"

CASEWORK C28

3/4" = 1'-0"

E10

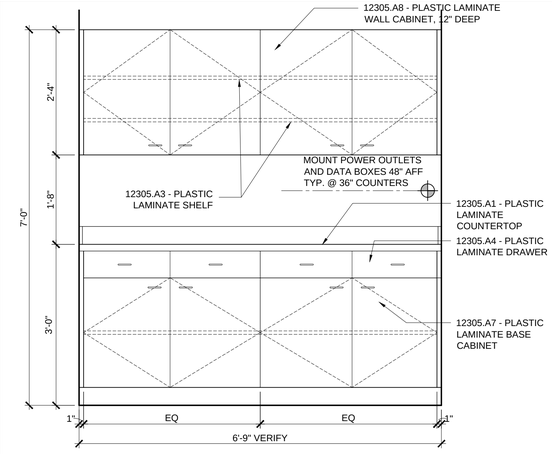


0 8" 1'-4" 2'-8"

CASEWORK C22

3/4" = 1'-0"

E5

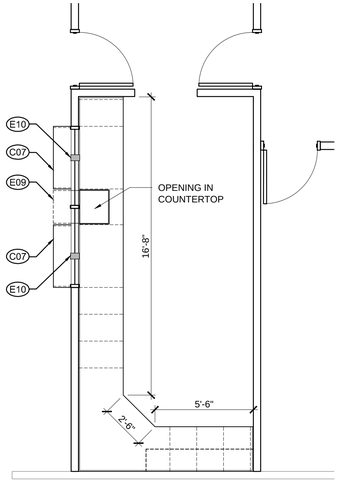


0 8" 1'-4" 2'-8"

CASEWORK C21

3/4" = 1'-0"

E1

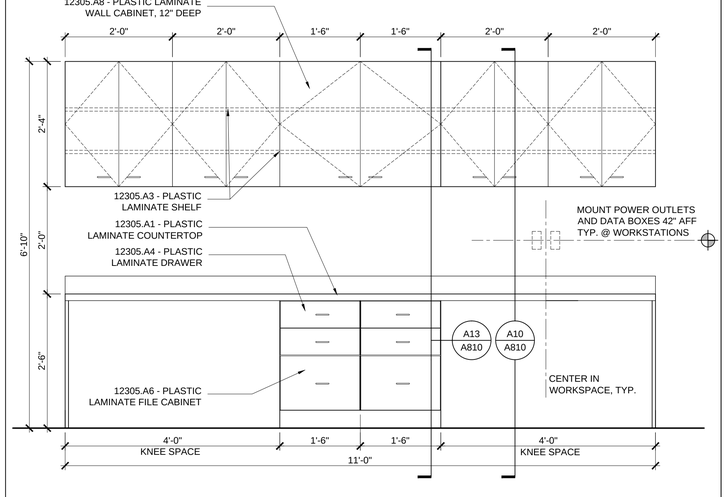


0 2' 4' 8'

CASEWORK C13 PLAN

1/4" = 1'-0"

A13

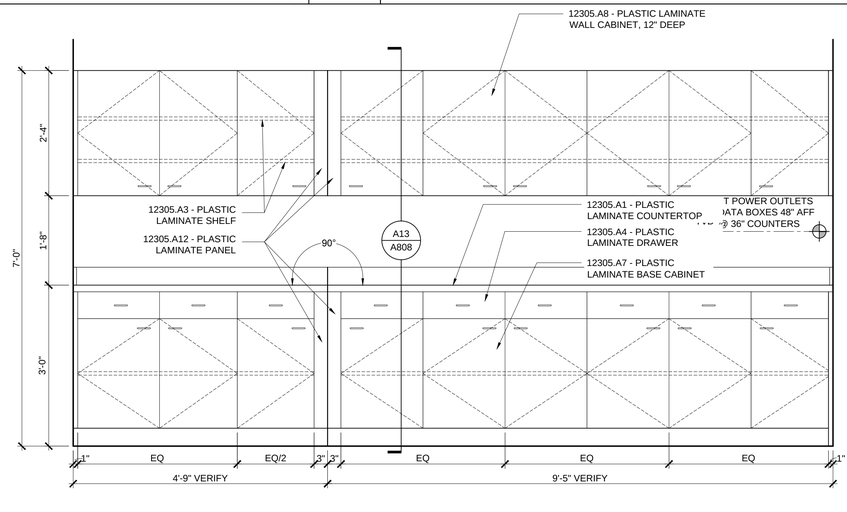


0 8" 1'-4" 2'-8"

CASEWORK C25

3/4" = 1'-0"

A8



0 8" 1'-4" 2'-8"

CASEWORK C24

3/4" = 1'-0"

A1

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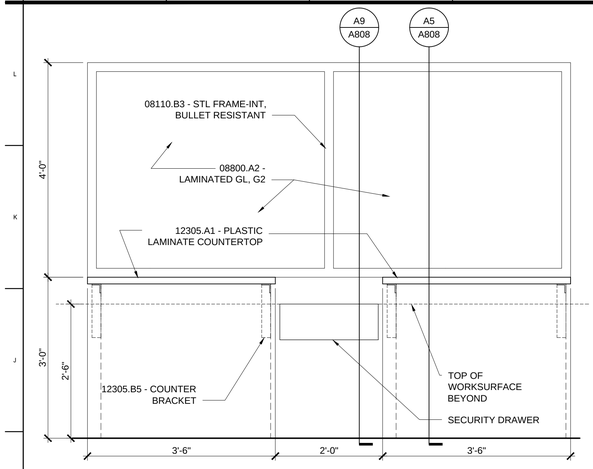
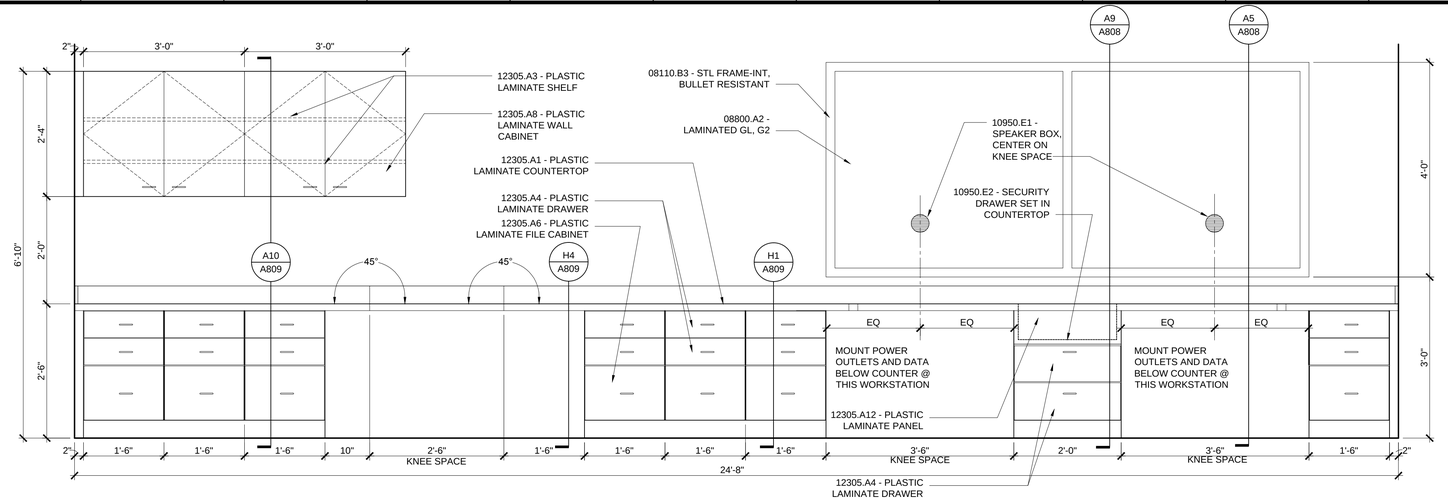
CASEWORK ELEVATIONS

A807



CASEWORK C07
3/4" = 1'-0"

H12



CASEWORK C13
3/4" = 1'-0"

H1

CASEWORK SECTION
1 1/2" = 1'-0"

A13

CASEWORK SECTION
1 1/2" = 1'-0"

A9

CASEWORK SECTION
1 1/2" = 1'-0"

A5

CASEWORK SECTION
1 1/2" = 1'-0"

A1

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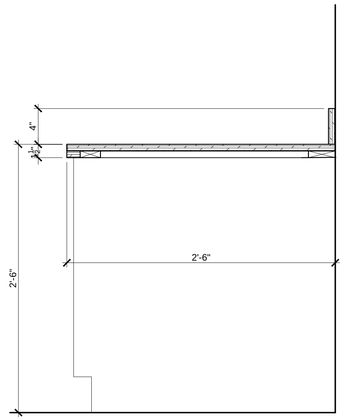
CASEWORK
ELEVATIONS AND
SECTIONS

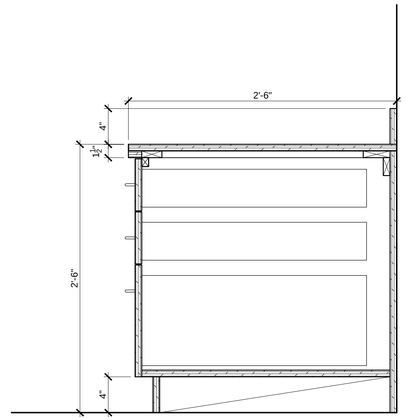
A808



0 4" 8" 1'-4"

CASEWORK SECTION
1 1/2" = 1'-0"

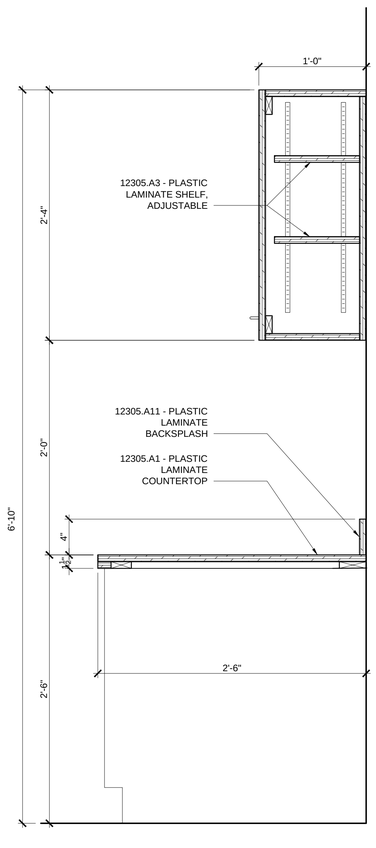
H4



0 4" 8" 1'-4"

CASEWORK SECTION
1 1/2" = 1'-0"

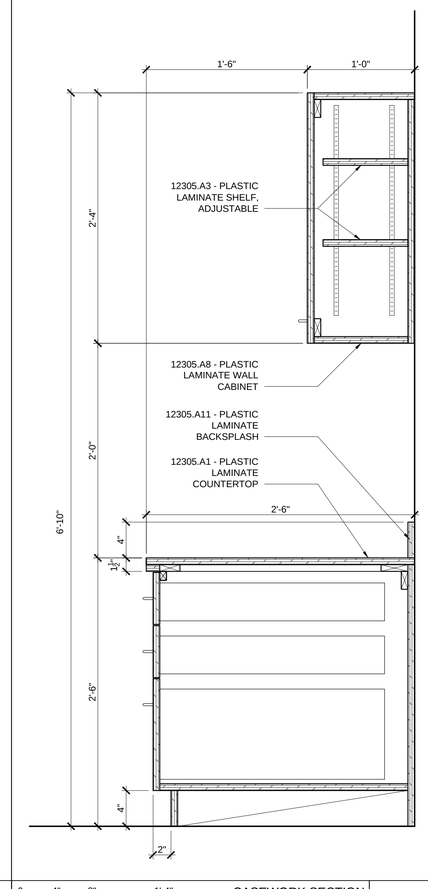
H1



0 4" 8" 1'-4"

CASEWORK SECTION
1 1/2" = 1'-0"

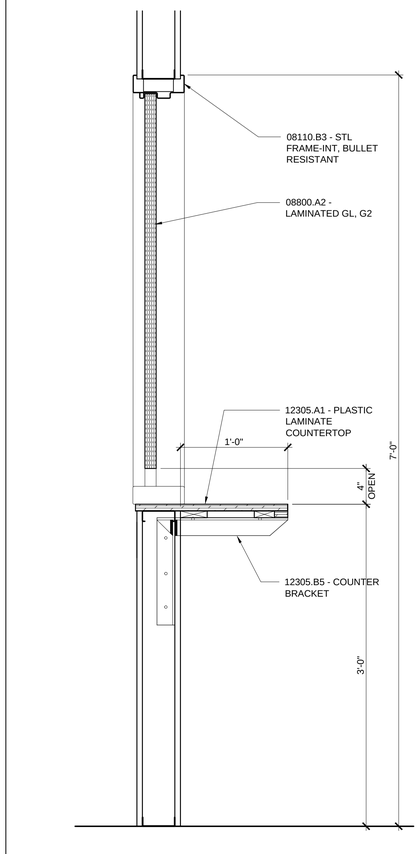
A13



0 4" 8" 1'-4"

CASEWORK SECTION
1 1/2" = 1'-0"

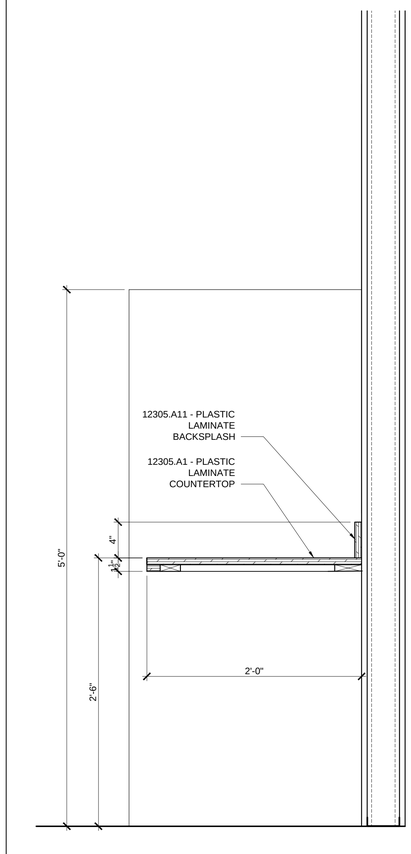
A10



0 4" 8" 1'-4"

CASEWORK SECTION
1 1/2" = 1'-0"

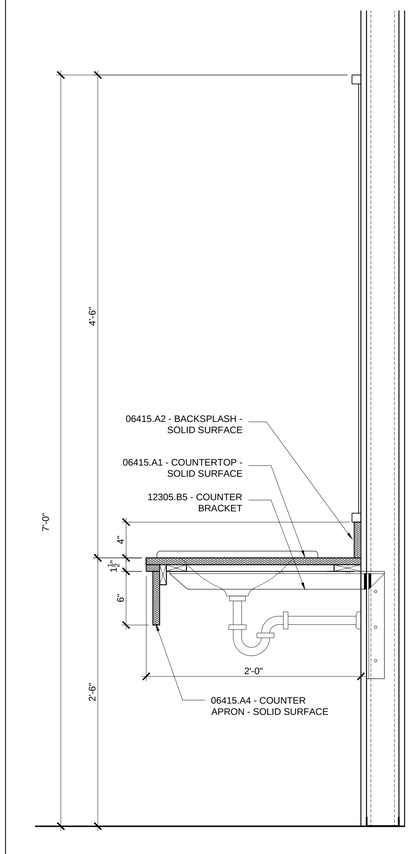
A7



0 4" 8" 1'-4"

CASEWORK SECTION
1 1/2" = 1'-0"

A4



0 4" 8" 1'-4"

CASEWORK SECTION
1 1/2" = 1'-0"

A1

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HILLSBOROUGH COUNTY SHERIFF'S OFFICE
RENOVATIONS
PINEBROOKE BUSINESS PARK

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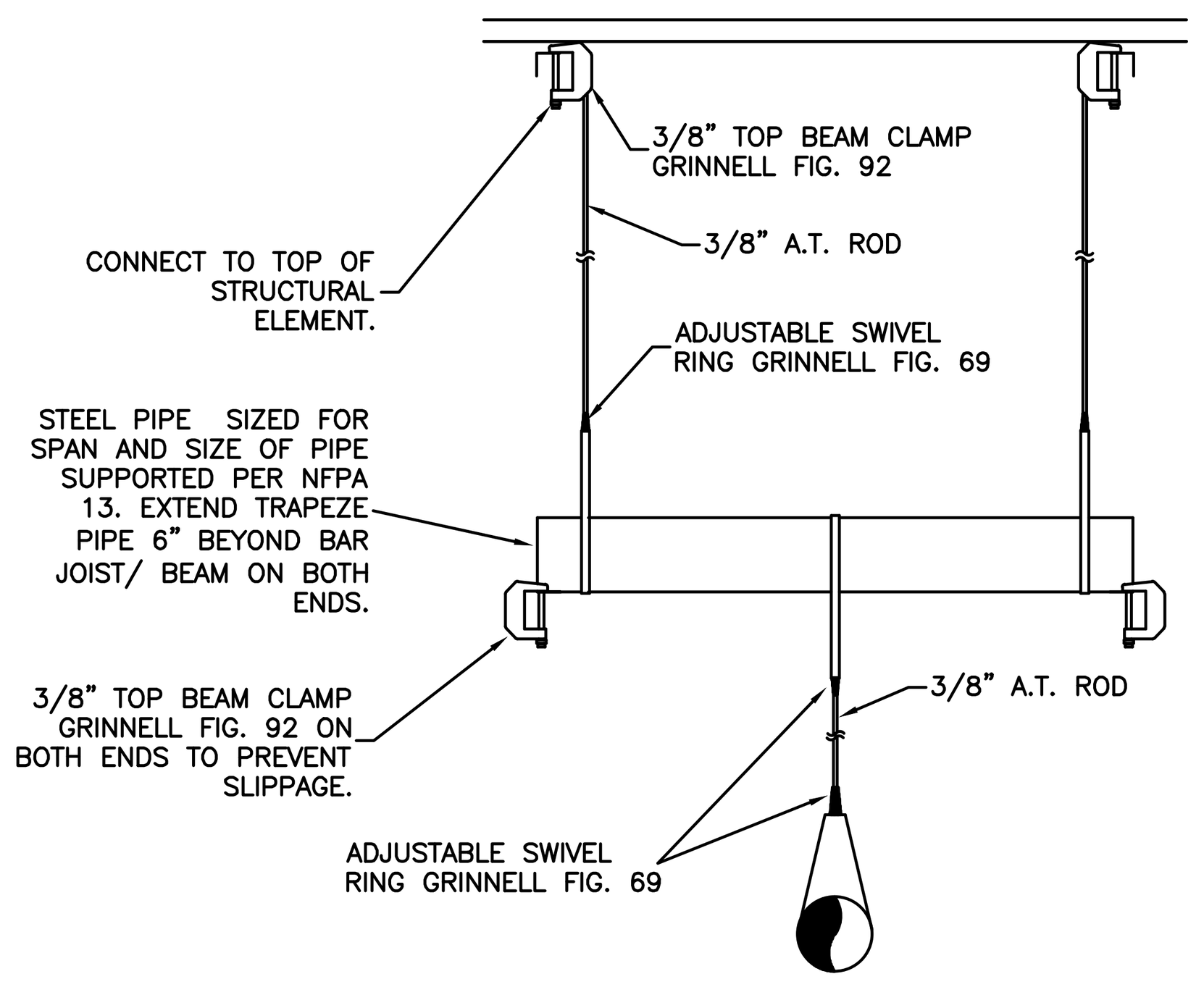
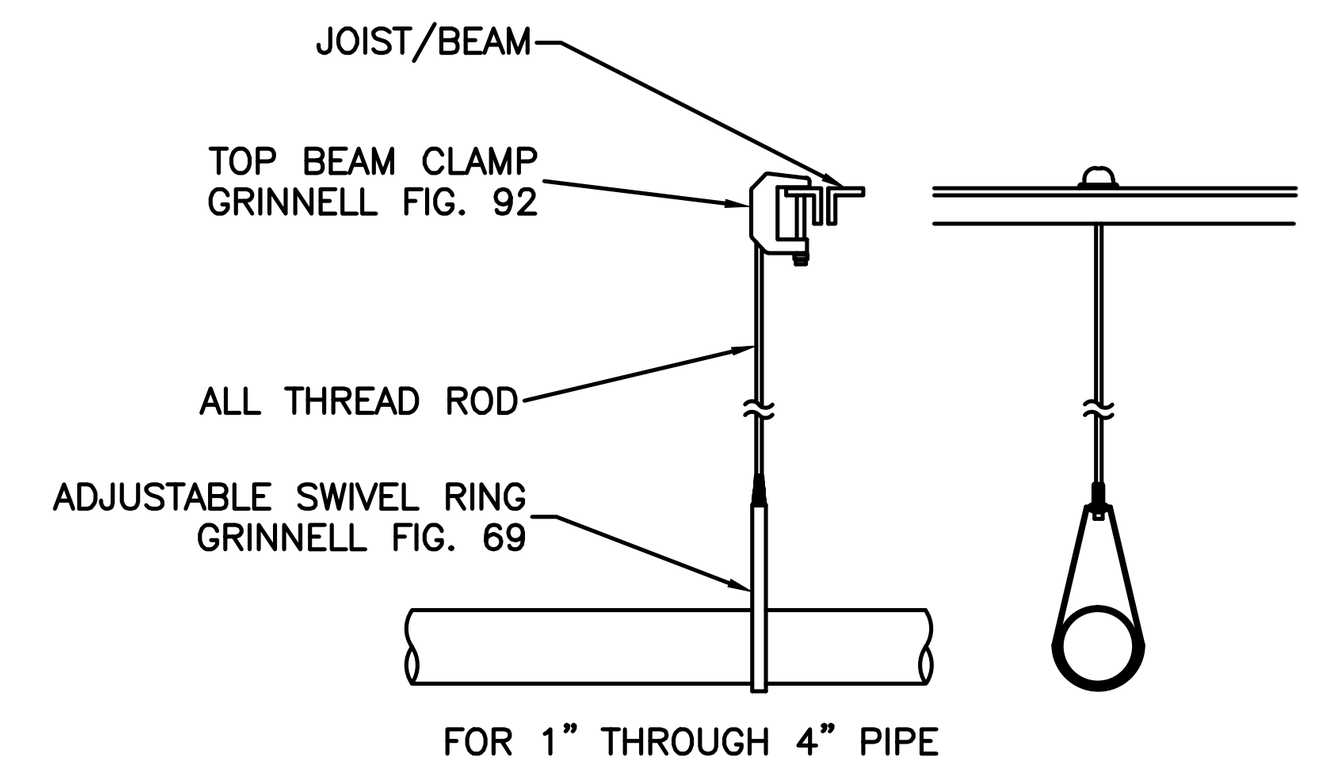
CASEWORK SECTIONS

A809



TRAPEZE PIPE HANGER DETAIL

NOT TO SCALE



PIPE HANGER DETAIL

NOT TO SCALE

SPRINKLER SYSTEM DESIGN CRITERIA

1. THE FOLLOWING AREAS ARE LIGHT HAZARD:
   a. RESTROOMS
   b. CORRIDORS
   c. OFFICES
   d. LOBBIES
2. THE FOLLOWING AREAS ARE ORDINARY HAZARD, GROUP 1:
   a. STORAGE ROOMS
   b. MECHANICAL ROOMS
   c. ELECTRICAL ROOMS
   d. JANITOR CLOSETS
3. MAXIMUM SPRINKLER COVERAGE:
   a. LIGHT HAZARD – 225 SQ. FT. PER SPRINKLER.
   b. ORDINARY HAZARD, GROUP 1 & 2 – 130 SQ. FT. PER SPRINKLER.
4. DENSITY/ AREA REQUIREMENTS:
   a. LIGHT HAZARD – 0.10 GPM PER SQ. FT. OVER MOST REMOTE 1500 SQ. FT. OF AREA. ALLOW 100 GPM FOR HOSE DEMAND.
   b. ORDINARY HAZARD, GROUP 1 – 0.15 GPM PER SQ. FT. OVER MOST REMOTE 1500 SQ. FT. OF AREA. ALLOW 250 GPM FOR HOSE DEMAND.
5. FLOW TEST DATA:
   STATIC PRESSURE -------- 52 PSI
   RESIDUAL PRESSURE ------ 48 PSI
   FLOW --------------- 1,061 GPM
   DATE ---------------- 10/07/2015
   LOCATION ----------------HYDRANT # H-20-4-01 ON WINDHORST RD
   SOURCE ------------- – CITY OF TAMPA WATER DEPTARTMENT
6. BASED ON THE FLOW TEST INFORMATION GIVEN IN ITEM 5, ALLOW A SAFETY FACTOR OF AT LEAST 10 PSI BETWEEN THE CALCULATED PRESSURE DEMAND AND THE WATER SUPPLY AVAILABLE PRESSURE AT THE REQUIRED FLOW RATE.

FIRE PROTECTION LEGEND

FP	FIRE PROTECTION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
(E)	EXISTING – EXACT SIZE AND LOCATION SHALL BE FIELD VERIFIED.
———	FP PIPING
- - - - -	UNDERGROUND FP PIPING
—⋈—	SUPERVISED ZONE VALVE WITH TAMPER SWITCH
⊗	FP RISER
(symbol)	FIRE DEPARTMENT CONNECTION (FDC)
○◉●	(E) SPRINKLERS
(symbol)	CONNECT NEW TO EXISTING. FIELD VERIFY SIZE AND LOCATION PRIOR TO EXECUTING WORK

FIRE PROTECTION GENERAL NOTES

1. ALL MECHANICAL WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE FOLLOWING:
   A. FLORIDA BUILDING CODE (FBC) 5TH EDITION (2014): THIS CODE INCLUDES THE 2014 FBC BUILDING, MECHANICAL, PLUMBING, FUEL GAS AND ENERGY CONSERVATION VOLUMES. FURTHER, SEE "REFERENCED STANDARDS" IN THE FBC, BUILDING CHAPTER 35; FBC, PLUMBING CHAPTER 14; FBC, MECHANICAL CHAPTER 15; FBC, FUEL GAS CHAPTER 8, FBC, ENERGY CONSERVATION CHAPTER 5.) (EFFECTIVE JUNE 30, 2015)
   B. 5TH EDITION OF THE FLORIDA FIRE PREVENTION CODE (FFPC): (THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.) (EFFECTIVE DECEMBER 31, 2014)
   C. 2011 NATIONAL ELECTRIC CODE
2. PIPING SHALL BE SIZED BY PIPE SCHEDULE METHOD NFPA 13 (2010).
3. ALL FIRE PROTECTION WORK SHALL MEET ALL OF THE REQUIREMENTS OF NFPA. ALL MATERIALS, METHODS, AND DESIGN SHALL BE PER EDITION OF NFPA 13 REQUIRED BY LOCAL AND STATE AUTHORITIES HAVING JURISDICTION. FLUSH AND TEST SYSTEM IN ACCORDANCE WITH NFPA 13, 24, AND LOCAL CODES.
4. PROVIDE PLANS AND HYDRAULIC CALCULATIONS IN CONFORMANCE WITH THE REQUIREMENTS OF NFPA 13 AND THE FLORIDA BUILDING CODE. PLANS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A DELEGATED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND SUBMITTED TO THE AHJ FOR APPROVAL. PRIOR TO ISSUING PLANS AND CALCULATIONS, THE DELEGATED PROFESSIONAL ENGINEER SHALL ISSUE A LETTER REQUESTING PERMISSION, ON COMPANY LETTERHEAD, TO BECOME ENGINEER OF RECORD TO HARRY W. PORTELLOS. P.E.. HARRY W. PORTELLOS. P.E.. WILL THEN RELINQUISH TITLE OF ENGINEER OF RECORD, IN WRITING, TO THE DELEGATED PROFESSIONAL ENGINEER.
5. SPRINKLER SYSTEMS SHALL BE INSTALLED BY PERSONNEL WHO HAVE ENGINEERING FACILITIES AND EXPERIENCE IN SUCH WORK AND WHO ARE REGULARLY EMPLOYED TO DO SUCH WORK.
6. ALL MATERIALS SHALL BE OF APPROVED QUALITY AND THE WORK SHALL BE DONE IN A THOROUGH AND WORKMANLIKE MANNER. THE WORK, MATERIALS AND TEST SHALL BE IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF NFPA 13 AND 14.
7. SPRINKLERS SHALL BE 1/2" ORIFICE TYPE OF ORDINARY DEGREE RATING EXCEPT WHERE EXCESSIVE TEMPERATURES ARE ANTICIPATED. IN THESE LOCATIONS, HIGH TEMPERATURE HEADS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13. THE CONTRACTOR SHALL INDICATE SPRINKLER TEMPERATURE RATING, ORIFICE SIZE AND TYPE ON FINAL DRAWINGS. SPRINKLER AND ESCUTCHEON SHALL BE CHROME PLATED.
8. COORDINATE EXACT LOCATION OF SPRINKLERS, PIPING, AND EQUIPMENT WITH CEILING, ELECTRICAL, MECHANICAL, AND STRUCTURAL COMPONENTS OF BUILDING. MAKE MODIFICATIONS WITHOUT ADDITIONAL COST TO THE OWNER.
9. ALL MATERIAL SHALL BE UL LISTED OR FM APPROVED.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL SMOKE AND FIRE RATED WALLS WHICH FIRE PROTECTION PIPING PENETRATES. FIRE PROTECTION PIPING SHALL BE SMOKE/FIRE SAFED IN AN APPROVED MANNER WHEN PENETRATING RATED WALLS AND FLOORS. PROVIDE SLEEVES OR OTHER APPROVED MEANS AND SEAL OPENINGS IN WALLS, FLOORS, AND PARTITIONS IN SUCH A MANNER AS TO MAINTAIN THE SMOKE AND FIRE RATING OF THAT WALL, FLOOR OR CEILING.
11. SPACING OF SPRINKLER HEADS: THE SPACING AND SIZES OF PIPES SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13. SPRINKLERS SHALL BE AT LEAST 6" FROM ANY CEILING FIXTURE. COORDINATE THE LOCATION OF SPRINKLERS AND PIPING WITH THE ELECTRICAL AND MECHANICAL DRAWINGS.
12. PIPING: SPRINKLER PIPING SHALL BE SCHEDULE 40 STEEL PIPE AND COMPATIBLE FITTINGS IN CONFORMANCE OF NFPA 13. MINIMUM SIZE IS ONE INCH. BRANCH LINES SHALL BE SCHEDULE 40 OR EQUAL TO ALLIED X-L PIPE WITH THREADED FITTINGS OR THINWALL PIPES WITH WELDED OUTLETS AND GROOVED FITTINGS. SCHEDULE 5 PIPE IS NOT ALLOWED. CROSS MAINS SHALL BE THINWALL PIPE WITH GROOVED FITTINGS. ALL EXPOSED PIPING SHALL BE IN CONFORMANCE WITH ANSI A13.1.
13. PIPE SUPPORTS, HANGERS, CLAMPS, RODS AND OTHER ACCESSORIES: SHALL BE OF AN APPROVED TYPE AND IN SUFFICIENT NUMBER TO PROPERLY SUPPORT ALL PIPING. PIPING SHALL BE SUPPORTED BY ROUND WROUGHT U-TYPE APPROVED ADJUSTABLE HANGERS. PROVIDE ALL HANGERS INCLUDING TRAPEZE HANGERS AS REQUIRED TO COMPLY WITH NFPA 13. HANG TO TOP CHORD OF BAR JOIST ONLY.
14. PROVIDE ANY ADDITIONAL DRAINS REQUIRED TO COMPLY WITH NFPA 13 AND LOCAL CODES (WITHOUT ADDITIONAL COST TO OWNER).
15. ALL BIDDERS ARE ENCOURAGED TO VISIT THE SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. NO ADDITIONAL COST WILL BE APPROVED FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
16. PROVIDE AND MAINTAIN TEMPORARY CONNECTIONS TO KEEP EXISTING FIRE PROTECTION SYSTEM IN SERVICE. ANY REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
17. REPLACE ANY CEILING PANELS OR GRID, DAMAGED DURING CONSTRUCTION IN ANY AREAS WHERE THE CEILING IS REMOVED TO EXECUTE WORK AND INTENDED TO BE REINSTALLED. REPLACEMENT TILES AND TEES SHALL MATCH EXISTING.
18. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
19. ANY DISRUPTION OF THE EXISTING AUTOMATIC SPRINKLER SYSTEM SHALL BE CONDUCTED IN ACCORDANCE WITH NFPA 101:9.7.6.1 AND NFPA 1:13.3.4.3.5.2.
20. ANY EXISTING SPRINKLER HEAD REMOVED FROM THE SPRINKLER PIPE SHALL BE REPLACED WITH A NEW SPRINKLER HEAD IN ACCORDANCE WITH NFPA 13:6.2.1.
21. AUTOMATIC SPRINKLER SYSTEM – A FLORIDA LICENSED SPRINKLER CONTRACTOR SHALL PROVIDE TWO COPIES EACH OF THE AUTOMATIC SPRINKLER SYSTEM SHOP DRAWINGS CONTAINING; 1) SPRINKLER SYSTEM WORKING PLANS, INCLUDING POINT OF SERVICE, SPRINKLER SYSTEM LAYOUT, NODE IDENTIFICATION AND NODE SPOT ELEVATIONS, 2) WATER SUPPLY INFORMATION, 3) SPRINKLER SYSTEM DESIGN AND HYDRAULIC CALCULATIONS, INCLUDING WATER SUPPLY CURVE AND SPRINKLER SYSTEM DEMAND, 4) HANGER DETAIL(S), AND 5) MANUFACTURER'S TECHNICAL CUT SHEETS WITH SYSTEM COMPONENTS AND DEVICES IDENTIFIED.

FIRE PROTECTION SCOPE OF WORK

1.1 CONTRACTOR SHALL MODIFY THE EXISTING, OVERHEAD WET SPRINKLER SYSTEM PIPING AND SPRINKLERS, AND ADD NEW PIPING, FITTINGS, SPRINKLERS, AND EQUIPMENT NECESSARY TO PROVIDE ADEQUATE COVERAGE FOR THE REMODELED AREA PER NFPA STANDARD 13, AND STATE, AND LOCAL CODES. ADD SPRINKLERS IN THE REMODELED AREAS INDICATED AS REQUIRED TO PROVIDE ADEQUATE PROTECTION. NEW SPRINKLERS ARE TO MATCH THE EXISTING SPRINKLERS IN TYPE, FINISH, TEMPERATURE, AND RESPONSE.

1.2 THE SPRINKLER SYSTEM DESIGN DENSITY AND SPRINKLER SPACING IN EACH ROOM SHALL BE IN ACCORDANCE WITH NFPA STANDARD 13 FOR THE OCCUPANCY OF THAT ROOM.

1.3 PIPE, FITTINGS, AND MATERIALS ARE TO MATCH THE EXISTING SYSTEMS WITHIN THE PROJECT'S BUILDING. THE NEW AND RELOCATED HEADS SHALL BE CENTERED IN THE 2' X 4' TILE OR AT 1/4 POINTS OF THE 2' X 4' ACOUSTICAL CEILING TILES. SPRINKLER SYSTEM MATERIALS SHALL BE U.L. LISTED FOR FIRE PROTECTION USE AND HAVE A MINIMUM WORKING PRESSURE OF 175 PSI.

1.4 SUBMIT SIGNED AND SEALED SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO THE APPROPRIATE STATE AND LOCAL CODE AUTHORITIES, THE OWNER'S INSURANCE UNDERWRITER, AND THE ENGINEER FOR REVIEW. SUBMIT FINAL, APPROVED SHOP DRAWINGS TO THE OWNER UPON COMPLETION OF THE PROJECT.

1.5 PERFORM APPLICABLE TESTS AS REFERENCED IN NFPA STANDARD 13 FOR "THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVEGROUND PIPING".

THE FIRE PROTECTION SYSTEM SHALL BE PROVIDED AS A COMPLETE DESIGN-BUILD DELIVERY, INCLUDING COMPLETE DESIGN DRAWINGS, HYDRAULIC CALCULATIONS, ETC., AS NECESSARY FOR PERMIT AND ANY OTHER REQUIREMENTS BY THE AUTHORITY HAVING JURISDICTION BASED ON THESE DOCUMENTS. ALL CALCULATIONS AND DESIGN DRAWINGS SHALL BE PRODUCED UNDER THE DIRECT SUPERVISION OF THE FLORIDA REGISTERED PROFESSIONAL ENGINEER AND ALL DOCUMENTS SHALL BE SIGNED AND SEALED BY THIS ENGINEER OF RECORD. ANY PREVIOUS ENGINEER OF RECORD (EOR) USED FOR THE DEVELOPMENT OF THE DESIGN-BUILD PERFORMANCE SPECIFICATION WILL RELINQUISH THE EOR TO THIS NEW EOR.

OBTAIN FLOW TEST RESULTS AND EVALUATE IF A FIRE PUMP AND OTHER APPURTENANCES WILL BE NEEDED. IF A FIRE PUMP IS NEEDED NOTIFY THE ARCHITECT AND ELECTRICAL ENGINEER IMMEDIATELY.

FIRE PROTECTION DRAWING INDEX

FP001 FIRE PROTECTION GENERAL NOTES, DETAILS AND LEGEND
FP101 FIRE PROTECTION PLAN – NORTH
FP102 FIRE PROTECTION PLAN – SOUTHWEST
FP103 FIRE PROTECTION PLAN – SOUTHEAST

FIRE PROTECTION GENERAL NOTES, DETAILS AND LEGEND A1
NOT TO SCALE

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Florida Engineering Business Number 6093

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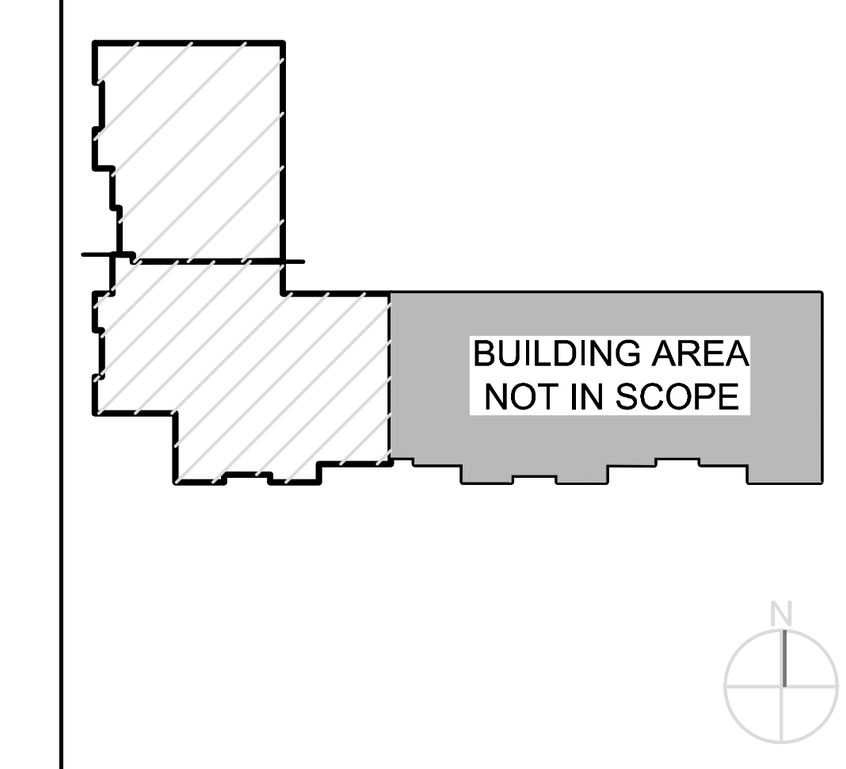

HILLSBOROUGH COUNTY
SHERIFF'S DEPARTMENT
P.O BOX 3371

HILLSBOROUGH COUNTY SHERIFF'S
DEPARTMENT RENOVATIONS
PINEBROOK BUSINESS PARK

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FIRE PROTECTION
GENERAL NOTES,
DETAILS AND LEGEND

FP001

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FIRE PROTECTION PLAN - NORTH
1/8" = 1'-0"

A1

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FIRE PROTECTION
PLAN - NORTH

FP101

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401 OFFICE
403 HR ANALYST
405 PERSONL MGR.
406 SUP.
407 BREAK RM.
407A CLO.
300A WT. RM.
300B CORR.
301 WOMEN'S
302 MEN'S
303 JAN.
200J CORR.
323 POLYGRAPH
238 STOR. RM.
237 NETWORK IDF
236 REPORT WR.
304 RECP.
300C CORR
322 POLYGRAPH
200H CORR.
235 ELEC RM.
300G CORR.
200F CORR.
305 ADMIN. ASST.
321 POLYGRAPH
001 MEN'S
002 WOMEN'S
307 CO./SUP.
307A FILE STOR.
229 VIDEO RM.
228 COPY RM.
227 SECURE INTV. RM.
306 R&S MGR.
307B STOR.
319 CONF. RM.
320 BK. INVST.
234 ROLL CALL RM.
200E CORR.
231 PATROL SGT. DAY "A"
230 PATROL SGT. NGT. "A"
226 SECURE INTV. RM.
300D CORR.
300F CORR.
308 BK. INVST.
318 T.D.Y.
317 BK. INVST.
233 PATROL SGT. DAY "B"
232 PATROL SGT. NGT. "B"
225 INTV. RM.
220A S.C.U. SGT "A"
220B S.C.U. SGT. "B"
200G CORR.
211 RESERVED
224 D.I.U. SGT.
309 BK. INVST.
313 BK. INVST.
315 BK. INVST.
316 BK. INVST.
209 INVEST. LT
200D CORR.
300E CORR.
210 CONF. RM.
223 DETECTIVES
310 BK. INVST.
311 BK. INVST.
312 CORPORAL
314 CORPORAL
208 LT. NIGHT "B"
203 CO. RM.
201A PROP. EQUIP.
217 DETECTIVE SQ. RM.
222 CRIME ANL.
207 LT NIGHT "A"
202A CLERICAL
217A DETECT. CORP.
220 ST. CRIMES UT.
206 LT DAY "A/B"
201
200B CORR.
221 TRAFFIC
214 JAN.
215 DETECTS SGT.
216 TPR. CORP.
212 MEN'S
213 WOMEN'S
200B WT. AREA
200A WT. AREA
215 COMPLAINT OFF.
216 COMPLAINT OFF.
205 MAJOR
204 CAPTN

4 5 6

ALL STORAGE, MECHANICAL, ELECTRICAL, CUSTODIAL AND COMMUNICATIONS AREAS SHALL BE DESIGNED TO ORDINARY HAZARD (GROUP 1), NOT TO EXCEED 130 SQ. FT. PER SPRINKLER. DESIGN SHALL BE BASED ON 0.15 GPM PER SQ. FT. OVER 1,500 SQ. FT. VELOCITY SHALL NOT EXCEED 20' PER SECOND.
ALL OTHER SPACES UNLESS OTHERWISE NOTED SHALL BE DESIGNED TO LIGHT HAZARD NOT TO EXCEED 225 SQ. FT. PER SPRINKLER. DESIGN SHALL BE BASED ON 0.10 GPM PER SQ. FT. OVER 1,500 SQ. FT. VELOCITY SHALL NOT EXCEED 20' PER SECOND.

NEW ISOLATION VALVE WITH TAMPER SWITCH ABOVE CEILING.
PROPOSED NEW FIRE MAIN CONNECTED TO EXISTING SPRINKLER MAIN.
NEW SPRINKLER SYSTEM.
(E) SPRINKLER SYSTEM TO REMAIN EXCEPT FOR TIE-IN POINT.

N

0' 4' 8' 16'

FIRE PROTECTION PLAN - SOUTHWEST
1/8" = 1'-0"

A1

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FIRE PROTECTION
PLAN - SOUTHWEST

FP102

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6 7 8 9 10 11

(E) INSPECTOR'S TEST.

NEW PROPOSED FIRE MAIN CONNECTED TO EXISTING SPRINKLER MAIN.

(E)4"

(E)3"

(E)4"

(E)4"

(E) 4" FIRE RISER AND FDC LOCATION.

(E) 6" UNDERGROUND FIRE LINE.

: MAIN
TING

(E) SPRINKLER SYSTEM TO REMAIN EXCEPT FOR TIE-IN POINT.

N

0' 4' 8' 16'

FIRE PROTECTION PLAN - SOUTHEAST
1/8" = 1'-0"

A1

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BUILDING AREA NOT IN SCOPE

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FIRE PROTECTION
PLAN -SOUTHEAST

FP103

GENERAL PLUMBING NOTES

1. ALL PLUMBING WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE FOLLOWING:
   A. FLORIDA BUILDING CODE (FBC) 5TH EDITION (2014): THIS CODE INCLUDES THE 2014 FBC BUILDING, MECHANICAL, PLUMBING, FUEL GAS AND ENERGY CONSERVATION VOLUMES. FURTHER, SEE "REFERENCED STANDARDS" IN THE FBC, BUILDING CHAPTER 35; FBC, PLUMBING CHAPTER 14; FBC, MECHANICAL CHAPTER 15; FBC, FUEL GAS CHAPTER 8, FBC, ENERGY CONSERVATION CHAPTER 5.) (EFFECTIVE JUNE 30, 2015)
   B. 5TH EDITION OF THE FLORIDA FIRE PREVENTION CODE (FFPC): (THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.) (EFFECTIVE DECEMBER 31, 2014)
   C. 2011 NATIONAL ELECTRIC CODE
2. PROVIDE COMPLETE PLUMBING SYSTEMS AS DETAILED. WORK CONSISTS OF FURNISHING ALL MATERIALS, EQUIPMENT, AND SERVICES REQUIRED FOR COMPLETE SYSTEMS.
3. IN GENERAL, PLANS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED.
4. CONDITIONS SHOWN AS EXISTING ARE BASED ON AVAILABLE DATA AND SHOULD BE INTERPRETED TO BE APPROXIMATE. VERIFY EXISTING CONDITIONS IN THE FIELD.
5. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS.
6. COORDINATE LOCATIONS OF FLOOR DRAINS, CLEAN OUTS AND FLOOR HYDRANTS WITH THE ARCHITECTURAL DRAWINGS.
7. UNLESS OTHERWISE NOTED, ALL PIPING SHALL BE RUN IN CONCEALED SPACES.
8. WATER PIPING SHALL BE HARD DRAWN COPPER TYPE L WITH WROUGHT COPPER FITTINGS AND 95–5 SOLDER.
9. ALL SOIL, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC DWV.
10. SANITARY PIPING BELOW THE GROUND FLOOR SLAB SHALL BE SCHEDULE 40 DWV PVC SOIL PIPE AND FITTINGS.
11. VENT THROUGH ROOF TERMINALS SHALL BE LOCATED 10'–0" AWAY FROM ANY BUILDING INTAKE OPENINGS. COORDINATE WITH THE MECHANICAL CONTRACTOR.
12. GATE VALVES SHALL BE #125 BRONZE WITH UNION BONNET.
13. PROVIDE TRAP PRIMERS WHERE REQUIRED BY CODE.
14. ALL FIRE STOPPING SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S U.L. DETAILS OF THE PRODUCTS USED SPECIFICALLY ON THIS PROJECT. APPLICABLE U.L. DETAILS SHALL BE SUBMITTED FOR THE ENGINEER'S REVIEW AND A COPY SHALL BE AVAILABLE ON SITE FOR USE BY THE AUTHORITY HAVING JURISDICTION.
15. UNLESS NOTED OTHERWISE, ALL PLUMBING EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL BE GUARANTEED FOR A ONE YEAR PERIOD FROM DATE OF ACCEPTANCE.
16. PROVIDE ALL CUTTING REQUIRED FOR THE INSTALLATION OF PLUMBING WORK. FINISH PATCHING SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR.
17. ALL SOIL AND WASTE PIPING 2–1/2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT. LARGER WASTE PIPING SHALL BE SLOPED AT 1/8" PER FOOT.
18. ALL WATER PIPING SHALL BE SUPPORTED RIGIDLY AND IN LINE FROM THE BUILDING STRUCTURE. OFFSET PIPING TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHING, MECHANICAL AND ELECTRICAL EQUIPMENT, ETC.
19. PRIOR TO COMMENCING ANY PLUMBING ROUGH–IN, VERIFY THE EXACT SIZE, LOCATION, INVERT AND DIRECTION OF FLOW. NOTIFY THE ENGINEER IMMEDIATELY IF THE DRAIN IS SMALLER THAN INDICATED OR IF THE INVERT WILL NOT BE LOW ENOUGH FOR THE NEW PLUMBING ROUGH–IN. CONNECT NEW SANITARY LINES TO EXISTING SANITARY LINES AS INDICATED. PATCH THE FLOOR AS DIRECTED BY THE ARCHITECT.
20. VERIFY ALL SITE RELATED SANITARY & WATER CONNECTIONS PRIOR TO STARTING WORK. SHOULD DEPTHS BE DIFFERENT THAN THAT SHOWN HEREIN ADVISE ENGINEER IMMEDIATELY.
21. PRIOR TO SITE UTILITIES WORK, CALCULATE THE INVERTS FOR ALL SANITARY WASTE CONNECTIONS BASED ON ACTUAL CONDITIONS. COORDINATE SANITARY WASTE LOCATIONS AND INVERTS WITH SITE UTILITIES CONTRACTOR.
22. WASTE LINES RECEIVING BELOW AMBIENT TEMPERATURE CONDENSATE SHALL BE INSULATED WITH 1/2" FLEXIBLE UNICELLULAR FOAM (ARMAFLEX OR EQUIVALENT) INSULATION TO GRADE.
23. REFER TO ARCHITECTURAL DRAWINGS FOR AREAS TO RECEIVE NEW WALL COVERINGS OR FLOOR FINISHES. EXISTING PLUMBING FIXTURES SHALL BE REMOVED TO ALLOW WORK TO BE DONE IN THESE AREAS AND THEN REINSTALLED.
24. DISCONNECT AND REMOVE DRAINS FROM ALL PLUMBING FIXTURES BEING REMOVED AND CAP BELOW FLOOR OR INSIDE OF WALL. DISCONNECT AND REMOVE ASSOCIATED VENT.
25. ALL EXISTING LINES TO REMAIN SHALL BE VISUALLY INSPECTED AND MACHINE CLEANED.
26. REMOVE ALL UNUSED WASTE AND VENT PIPING.
27. FOR EXISTING PLUMBING FIXTURES TO REMAIN OR BE RELOCATED, PERFORM THE FOLLOWING WORK:
   A. REPLACE ALL MISSING COVERS FOR FLOOR CLEANOUTS AND INSTALL NEW GRATES ON FLOOR DRAINS WHERE BROKEN OR MISSING.
   B. SINKS BEING REUSED – INSTALL NEW TRAPS, STRAINERS, AND DRAIN ASSEMBLIES AS REQUIRED TO RENDER FIXTURE FULLY OPERATIONAL AND HAVE A LIKE NEW APPEARANCE.
   G. INSTALL NEW FIXTURE STOPS AT BREAKROOM SINK.
28. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PLUMBING LEGEND

- VENT PIPING
- WASTE PIPING BELOW FLOOR OR GRADE (SAN)
- COLD WATER PIPING (CW)
- HOT WATER PIPING (HW)
- HOT WATER RETURN PIPING (HWR)
- WASTE PIPING IN SLEEVE UNDER FOOTER
- PIPING UP
- PIPING DOWN
- HOT WATER BALANCING VALVE
- P# — PLUMBING FIXTURE IDENTIFICATION. SEE PLUMBING FIXTURE SCHEDULE
- VTR — VENT THROUGH ROOF
- ELEVATION
- CONNECT NEW TO EXISTING. FIELD VERIFY SIZE AND LOCATION PRIOR TO EXECUTING WORK
- (E) — EXISTING – EXACT SIZE AND LOCATION TO BE FIELD VERIFIED.

AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
S	SANITARY
W	WASTE
V	VENT

REFER TO RISER ON DRAWING P402FOR DOMESTIC WATER AND DRAWING P401 FOR WASTE AND VENT LINE SIZING

PLUMBING DRAWING INDEX

P001	PLUMBING GENERAL NOTES AND LEGEND
P101	PLUMBING PLAN – NORTH
P102	PLUMBING PLAN – SOUTH
P201	SANITARY ISOMETRIC
P202	DOMESTIC WATER ISOMETRIC
P301	PLUMBING SCHEDULES
P401	PLUMBING DETAILS

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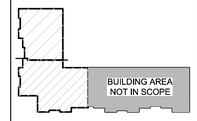

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PLUMBING GENERAL NOTES AND LEGEND

P001

PLUMBING GENERAL NOTES AND LEGEND — NOT TO SCALE — A1

Drawing File: i:\15xxx\15042.001\15043p001.dwg P001
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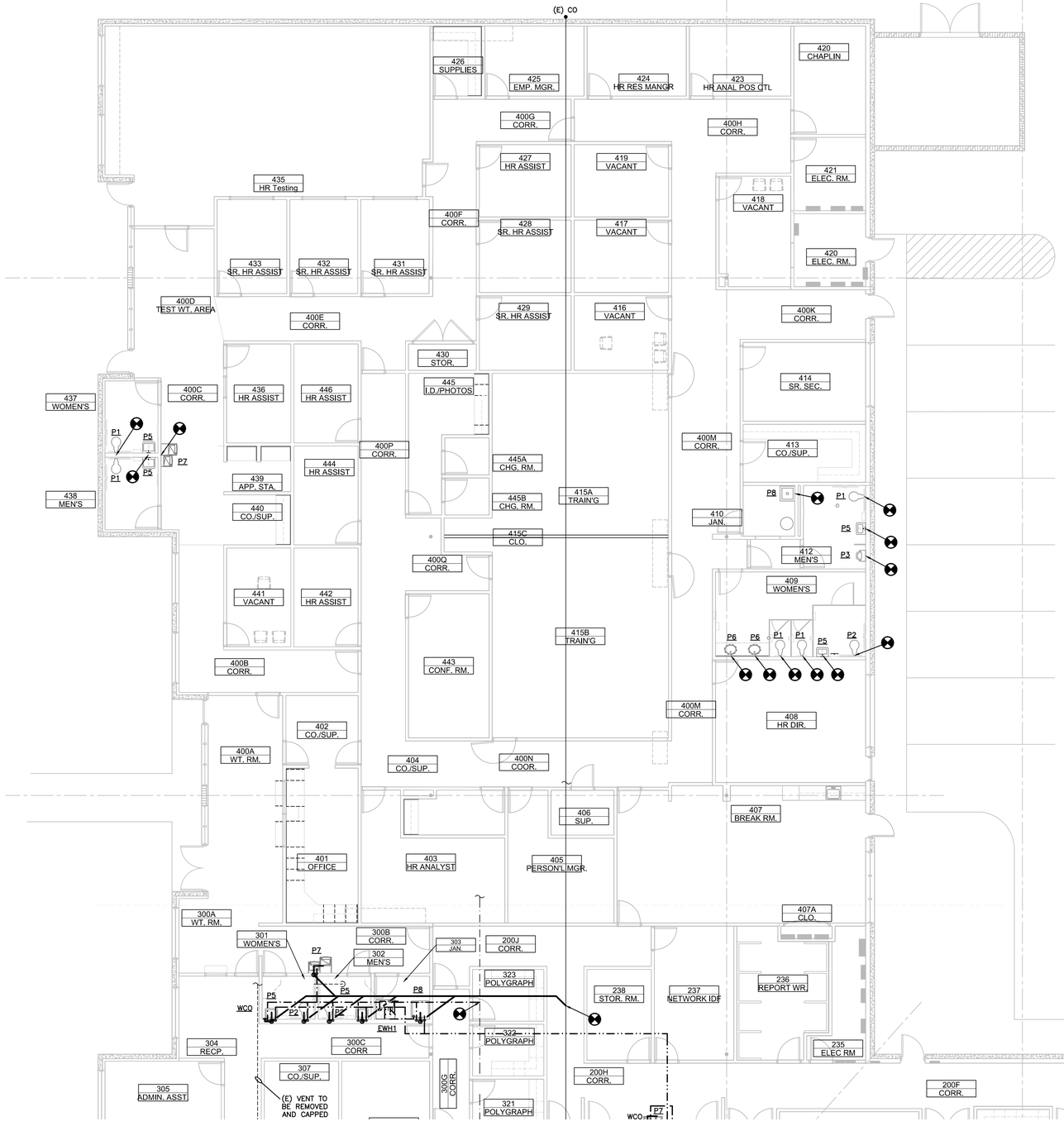

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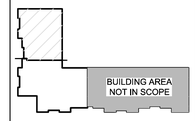

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PLUMBING PLAN - NORTH

P101

0' 4' 8' 16'

PLUMBING PLAN - NORTH
1/8" = 1'-0"

A1

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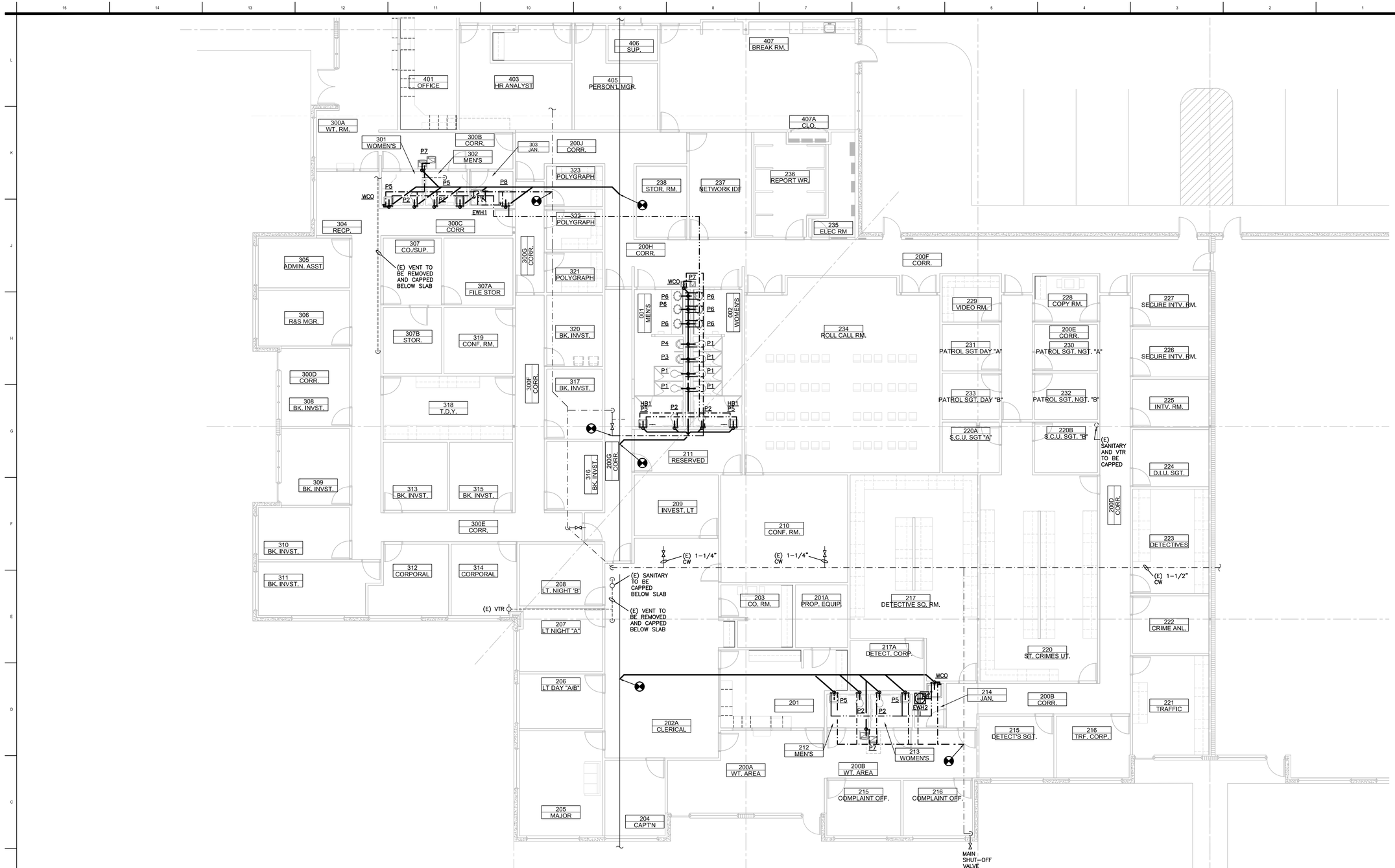

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PLUMBING PLAN - SOUTH

P102

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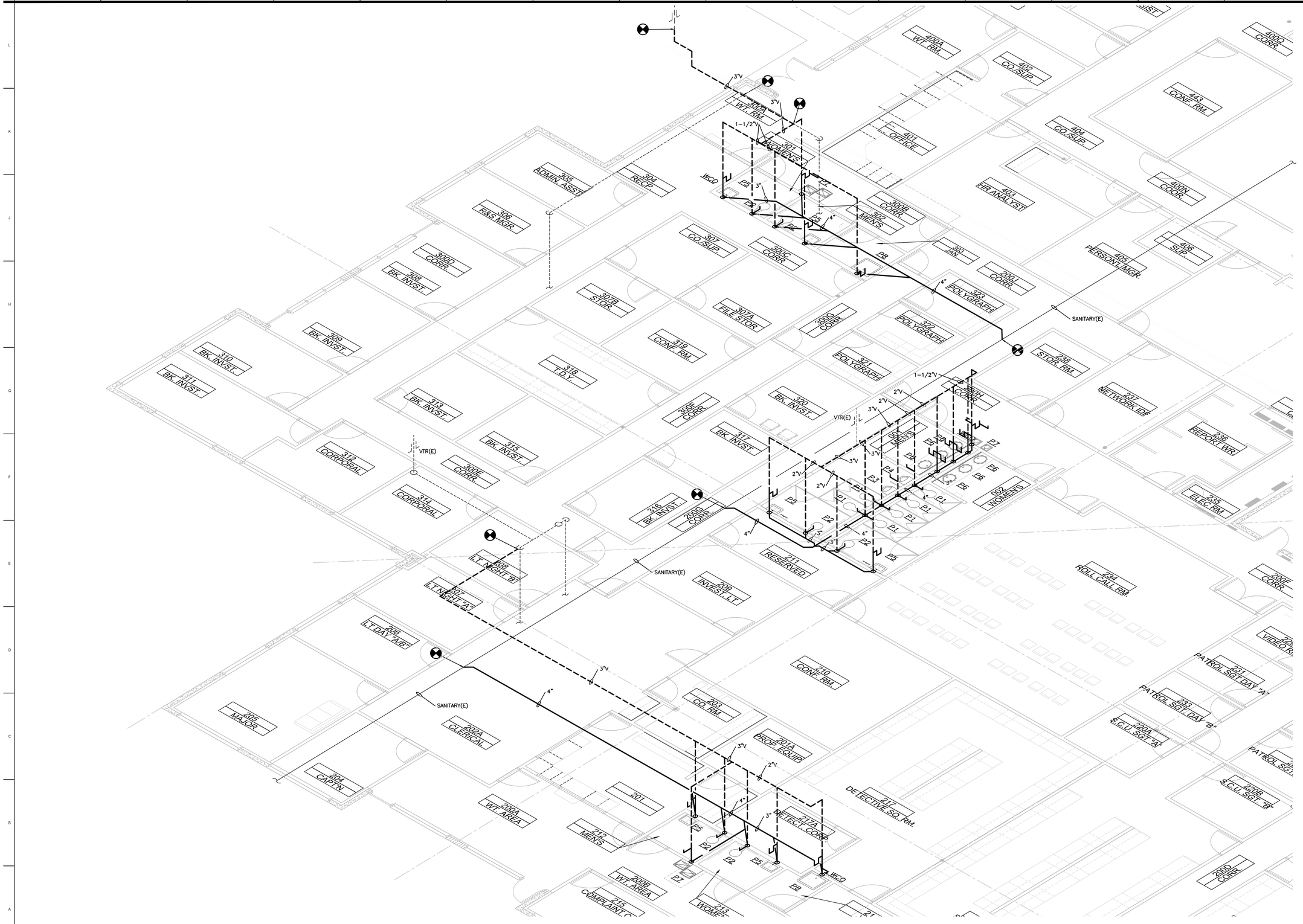

SANITARY ISOMETRIC
NOT TO SCALE
A1

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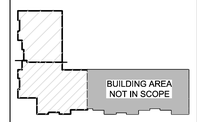

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SANITARY ISOMETRIC

P201



DOMESTIC WATER RISERS
NOT TO SCALE

A1

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DOMESTIC WATER RISERS

P202

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PLUMBING EQUIPMENT SCHEDULE

MARK	DESCRIPTION	SELECTION	W OR S	TRAP	VENT	HW	CW
FD1	FLOOR DRAIN 3" FLOOR DRAIN WITH TRAP PRIMER CONNECTED TO DOMESTIC COLD WATER LINE AT LAVATORY. NICKEL BRONZE TOP. 6" ROUND. CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE STRAINER.	SMITH 2005-A-6"	3"	3"	1-1/2"	–	–
HB1	HOSE BIBB LOOSE KEY CHROME PLATE SILL FAUCET WITH 3/4" FLANGED FEMALE INLET, TEE HANDLE AND 3/4" HOSE THREAD OUTLET. PROVIDE WITH VACUUM BREAKER. COORDINATE MOUNTING HEIGHT WITH GRADING PLAN AT EXTERIOR LOCATIONS AND MOUNT AT 24" AFF AT INTERIOR LOCATIONS.	CHICAGO 387 CHICAGO 293-6 WATTS 8AC	–	–	–	–	3/4"
WCO	CAST IRON TEE WALL CLEAN-OUT WITH BRONZE PLUG AND ROUND STAINLESS STEEL COVER PLATE. SIZE C.O. SAME AS LINE SIZE (2-1/2" MINIMUM). PROVIDE PVC TO NO-HUB ADAPTERS FOR PVC DWV APPLICATIONS.	SMITH 4351S-Y	2-1/2" MIN.	–	–	–	–
VTR	VENT THROUGH ROOF WITH VANDALPROOF VENT CAP SIZE AS INDICATED ON DRAWINGS.	WADE W-3680	–	–	–	–	–
TP	PRESSURE DROP ACTIVATED TRAP PRIMER INSTALLED UNDER LAVATORY OR SINK, EXPOSED FOR MAINTENANCE. ALL EXPOSED PIPING TO TRAP PRIMER SHALL HAVE A CHROME FINISH.	MIFAB M-500	–	–	–	–	–
EWH1	ELECTRIC WATER HEATER 3,000 WATTS, 208 VOLT, SINGLE PHASE, 10 GALLON ELECTRIC WATER HEATER.	RHEEM EGSP10	–	–	–	3/4"	3/4"
EWH2	ELECTRIC WATER HEATER 6,000 WATTS, 208 VOLT, THREE PHASE, 30 GALLON ELECTRIC WATER HEATER.	RHEEM EGSP30	–	–	–	3/4"	3/4"

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	SELECTION	W OR S	TRAP	VENT	HW	CW
P1 WATER CLOSET	HANDICAPPED ** BOWL: WHITE FLOOR MOUNTED WITH BOTTOM OUTLET, VITREOUS CHINA, SIPHON-JET, ELONGATED BOWL, 16.5" AFF TO RIM, BOLT CAPS WITH CAULK, LOW CONSUMPTION FLUSH (1.6 GPF). BOWL AND SEAT DIMENSIONS MUST MATCH WITHIN 1/4". SEAT: WHITE SOLID PLASTIC, HEAVY DUTY, ELONGATED, OPEN FRONT (WITHOUT COVER), STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, INTEGRAL MOLDED BUMPERS FLUSH VALVE ASSEMBLY: 11-1/2" HIGH ABOVE RIM, EXPOSED BATTERY POWERED, SENOR OPERATED FLUSH VALVE (1.6 GALLON FLUSH), CHROME FINISH, ADA COMPLIANT, 1" INLET, 1-1/2" OUTLET, INTEGRAL SCREWDRIVER ADJUSTABLE ANGLE STOP AND CHECK VALVE WITH COVER, VACUUM BREAKER, WALL AND SPUD FLANGES, SWEAT SOLDER ADAPTER KIT, SOLID RING PIPE SUPPORT. ROUGH-IN DIMENSION MUST ALLOW FOR FLUSH VALVE CLEARANCE OF HANDICAPPED GRAB BAR WHERE APPLICABLE, OR OFFSET FITTING MAY BE REQUIRED.	KOHLER HIGHCREST K-4302-0 KOHLER K-4670-C-0 KOHLER K-10957-CP	4"	INT.	2"	–	1"
P2 WATER CLOSET	BOWL: WHITE FLOOR MOUNTED WITH BOTTOM OUTLET, VITREOUS CHINA, 14 3/4" AFF TO RIM, SIPHON-JET, ELONGATED BOWL, BOLT CAPS WITH CAULK, LOW CONSUMPTION FLUSH (1.6 GPF). BOWL/SEAT DIMENSIONS MUST MATCH WITHIN 1/4". SEAT: WHITE SOLID PLASTIC, HEAVY DUTY, ELONGATED, OPEN FRONT (WITHOUT COVER), STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, INTEGRAL MOLDED BUMPERS FLUSH VALVE ASSEMBLY: EXPOSED BATTERY POWERED, SENSOR OPERATED FLUSH VALVE (1.6 GALLON FLUSH), CHROME FINISH, ADA COMPLIANT, 1" INLET, 1-1/2" OUTLET, INTEGRAL SCREWDRIVER ADJUSTABLE ANGLE STOP AND CHECK VALVE WITH COVER, VACUUM BREAKER, WALL AND SPUD FLANGES, SWEAT SOLDER ADAPTER KIT, SOLID RING PIPE SUPPORT.	KOHLER WELLCOMME K-4350-0 KOHLER K-4670-C-0 KOHLER K-10962-CP	4"	INT.	2"	–	1"
P3 WATER CLOSET	BOWL: WHITE FLOOR MOUNTED WITH BOTTOM OUTLET, VITREOUS CHINA, 16.5" AFF TO RIM, ELONGATED BOWL, BOLT CAPS WITH CAULK, LOW CONSUMPTION FLUSH (1.28 GPF). BOWL AND SEAT DIMENSIONS MUST MATCH WITHIN 1/4". SEAT: WHITE SOLID PLASTIC, HEAVY DUTY, ELONGATED, WITH COVER, QUIET CLOSE SEAT/LID, INTEGRAL MOLDED BUMPERS	KOHLER HIGHLINE K-3658-0 KOHLER K-4008-0	4"	INT.	2"	–	3/4"
P4 URINAL	BOWL: WHITE, WALL HUNG VITREOUS CHINA, SIPHON-JET, 14" PROJECTION, 24" TO LIP, FLOOR MOUNTED CARRIER WITH CONCEALED BACK, LOW CONSUMPTION FLUSH (.125 GPF), 304 STAINLESS STEEL BOLTS AND WASHERS FLUSH VALVE ASSEMBLY: 10" HIGH, BATTERY POWERED, SENSOR OPERATED FLUSH VALVE, .125 GALLON FLUSH, CHROME FINISH, ADA COMPLIANT, 1" INLET, 1-1/4" OUTLET, INTEGRAL SCREW DRIVER ADJUSTABLE ANGLE STOP AND CHECK VALVE WITH COVER, VACUUM BREAKER, WALL AND SPUD FLANGES, SWEAT SOLDER KIT, AND WALL BRACKET	KOHLER K-4904-ET-0 SMITH 637 KOHLER K-10949-CP	2"	INT.	1-1/2"	–	3"/4"
P5 LAVATORY	HANDICAPPED ** HOT AND COLD WATER BOWL: WHITE, WALL MOUNTED, VITREOUS CHINA, 20"x18", SINGLE FAUCET HOLE, PROVIDE FLOOR MOUNTED WALL CARRIER WITH CONCEALED ARMS. MOUNT AS FOLLOWS: APPLICATION APRON(MIN) RIM(MAX) ADULT 29" 34" FAUCET: SENSOR BATTERY OPERATED FAUCET, VANDAL RESISTANT, 0.5 GPM PRESSURE COMPENSATING AERATOR, SINGLE HOLE, MIXING VALVE. DRAIN: FLAT GRID, CHROME FINISH, 1-1/4" OUTLET WITH ADA COMPLIANT OFFSET TAILPIECE. PROVIDE PROTECTIVE INSULATION AS REQUIRED BY ADA. P-TRAP: CHROME FINISHED WITH TWO UNIONS, 1-1/4" INLET AND 1-1/2" OUTLET, CLEANOUT PLUG, WALL ESCUTCHEON SUPPLY: TWO REQUIRED, CHROME PLATED, LOOSE KEY ANGLE VALVE, WALL ESCUTCHEON, FLEXIBLE TUBE RISER, 3/8" INLET AND OUTLET CONNECTIONS. PROVIDE PROTECTIVE INSULATION AS REQUIRED BY ADA**. ***OMIT HOT WATER AT SHOP LAVS ***	KOHLER GREENWICH K-2031-0 WATTS TCA-411 KOHLER K-13460-CP MCGUIRE 155WC MCGUIRE 8902 MCGUIRE 2165CCLK PLUMBEREX "PRO-2000"	2"	1-1/4"	1-1/4"	1/2"	1/2"
P6 LAVATORY	BOWL: WHITE, SELF RIMMING, VITREOUS CHINA, OVAL, SINGLE FAUCET HOLE LAVATORY. FAUCET: SENSOR BATTERY OPERATED FAUCET, VANDAL RESISTANT, 0.5 GPM PRESSURE COMPENSATING AERATOR, SINGLE HOLE, MIXING VALVE. DRAIN: FLAT GRID, CHROME FINISH, 1-1/4" OUTLET P-TRAP: CHROME FINISHED WITH TWO UNIONS, 1-1/4" INLET AND 1-1/2" OUTLET, CLEANOUT PLUG, WALL ESCUTCHEON SUPPLY: TWO REQUIRED, CHROME PLATED, LOOSE KEY ANGLE VALVE, WALL ESCUTCHEON, FLEXIBLE TUBE RISER, 3/8" INLET AND OUTLET CONNECTIONS.	KOHLER K-2196-1-0 KOHLER K-13462-CP MCGUIRE 155-A2 MCGUIRE 165 MCGUIRE 8088	2"	1-1/4"	1-1/4"	1/2"	1/2"
P7 ELECTRIC WATER COOLER	HANDICAPPED** TWO LEVEL ELECTRIC WATER COOLER WHEELCHAIR ACCESS ELECTRIC WATER COOLER NON-RECESSED, STAINLESS STEEL TOP AND SIDES, WITH FRONT AND SIDE PRESSBARS, GRID STRAINER AND SAFETY BUBBLER. 4.4 GPH @ 30°F TEMPERATURE DIFFERENCE. 4.8AMPS @ 120V/1ø/60HZ. 1-1/4" P-TRAP, CAST BRASS WITH CLEAN OUT. 1/2" STOP. MOUNT WITH BUBBLER AT 30" & 36" AFF. WITH BOTTLE FILLING STATION.	ELKAY LZSTL8WSVR*K	2"	1-1/4"	1-1/4"	–	1/2"
P8 SERVICE SINK	SERVICE SINK ONE-PIECE CONSTRUCTION, 24"x24"x10", FLOOR MOUNTED. FAUCET WITH PAIL HOOK AND HOSE END, VACUUM BREAKER, INTEGRAL STOPS, VANDAL PROOF HANDLE MOP HANGER, 24"x3", 18 GA. STAINLESS STEEL BUMPER GUARD. 12 OZ. SILICONE SEALANT. 30" HOSE AND BRACKET COMBINATION.	FIAT MSB 2424 FIAT 830-AA FIAT 889-CC FIAT 833-AA FIAT 889-CC	2"	2"	2"	1/2"	1/2"

** FIXTURE AND ALL ATTACHMENTS SHALL COMPLY WITH CHAPTER 11 OF THE FLORIDA BUILDING CODE AND THE AMERICANS WITH DISABILITIES ACT. FIXTURE TO BE MOUNTED PER THIS SCHEDULE UNLESS NOTED OTHERWISE IN PLAN. FLUSH VALVE IS TO BE ON THE SIDE TOWARDS THE ASSOCIATED LAVATORY WHERE APPLICABLE.

*** CONNECT COLD WATER SUPPLY LINE TO HOT AND COLD WATER FIXTURE CONNECTIONS. PROVIDE TWO COLD WATER INDEXES WHERE POSSIBLE.

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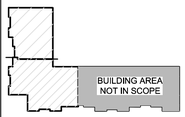

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PLUMBING
SCHEDULES

P301

Drawing File: I:\15xx\15042.00\15042p301.dwg P301
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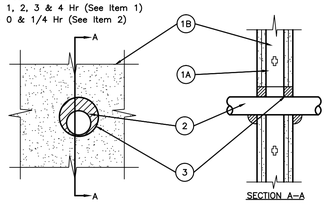
System No. W-L-1154

F Rating – 1, 2, 3 & 4 Hr (See Item 1)
T Rating – 0 & 1/4 Hr (See Item 2)



1. Wall Assembly – The 1, 2, 3 or 4 hr fire–rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3–5/8 in. wide and spaced max 24 in. OC.
   B. Wallboard, Gypsum* – Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 25–3/8 in. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrants – One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 (point contact) in. to max 1–3/8 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe – The following types and sizes of steel pipes may be used:
      1A. Nom 4 in. diam (or smaller) Schedule 7 (or heavier) steel pipe.
      2A. Nom 8 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
      3A. Nom 10 in. diam (or smaller) Schedule 20 (or heavier) steel pipe.
      4A. Nom 24 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.
   B. Iron Pipe – Nom 24 in– diam (or smaller) cast or ductile iron pipe. When iron pipe is used T Rating is 1/4 hr.
   When steel or iron pipe is used T Rating is 1/4 hr for nom 4 in, diam (or smaller) and 0 hr for steel or iron pipes greater than nom 4 in, diam.
   C. Conduit – Nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT). When EMT is used T Rating is 1/4 hr.
   D. Conduit – Nom 6 in. diam (or smaller) steel conduit. When steel conduit is used T Rating is 1/4 hr.
   E. Copper Tubing – Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing. When copper tube is used T Rating is 0 hr.
   F. Copper Pipe – Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe. When copper pipe is used T Rating is 0 hr.

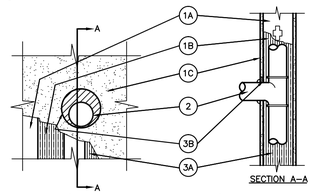
3. Fill, Void or Cavity Material* – Sealant – Min 5/8 in. thickness of fill material for 1 hr rated wall assemblies and 1 in. thickness of fill material for 2, 3 or 4 hr rated wall assemblies, applied within the annulus, flush with both surfaces of wall. At point contact location between penetrant and periphery of opening, a min 1/2 in. diam bead of fill material shall be installed at the wallboard/penetrant interface on both surfaces of wall.

   Johns Manville International, Inc. – Firetemp™ CI

   *Bearing the UL Classification Marking

System No. W-L-2179

F Rating – 1 Hr
T Rating – 1 Hr



1. Wall Assembly – The fire–rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced max 16 in. OC. Steel studs to be min 3–5/8 in. wide and spaced max 24 in. OC.
   B. Insulation, Glass Fiber – R–13 fiber glass insulation installed entirely within single stud cavity of nonmetallic pipe.
   C. Wallboard, Gypsum* – One layer of nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 4–1/4 in.

2. Non–Metallic Pipe – Non–metallic pipe, installed within stud cavity and connected to non–metallic tee. Non–metallic pipe penetrating wall assembly on one side of wall to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 3/8 in. Pipe to be rigidly supported on penetrating side of wall assembly. The following types of and sizes of non–metallic pipes and tees may be used:
   A. Polyvinyl Chloride (PVC) Pipe – Nom 2 in. diam (or smaller) Schedule 40 cellular core or solid core PVC pipe for use in vented (drain, waste, or vent) or closed (process and supply) piping system.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe – Nom 2 in. diam (or smaller) SDR17 CPVC pipe for use in vented (drain, waste, or vent) or closed (process and supply) piping systems.
   C. Acrylonitrile Butadiene Styrene (ABS) Pipe – Nom 2 in. diam (or smaller) Schedule 40 cellular core or solid core ABS pipe for use in vented (drain, waste or vent) piping systems.
   D. Polyvinyl Chloride (PVC) Tee – Nom 2 in. diam (or smaller) Schedule 40 cellular core or solid core PVC tee.
   E. Chlorinated Polyvinyl Chloride (CPVC) Tee – Nom 2 in. diam (or smaller) SDR11 CPVC tee.
   F. Acrylonitrile Butadiene Styrene (ABS) Tee – Nom 2 in. diam (or smaller) Schedule 40 cellular core or solid core ABS tee.

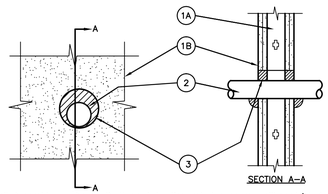
3. Fill, Void or Cavity Material* – Sealant – Min 5/8 in. thickness of fill material applied within the annulus, flush with surface of wall. At point contact location between wallboard and pipe, a min 1/2 in diam bead of fill material shall be applied at the pipe/wallboard interface.

Johns Manville International, Inc. – Firetemp™ CI

*Bearing the UL Classification Marking

System No. W-L-2169

F Rating – 1, 2, 3 & 4 Hr (See Item 1B)
T Rating – 1, 2, 3 & 4 Hr



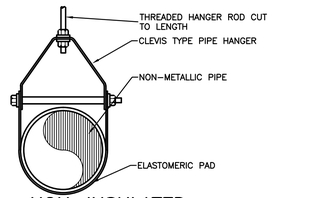
1. Wall Assembly – The 1, 2, 3 or 4 hr fire–rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced max 16 in. OC. Steel studs to be min 3–5/8 in. wide and spaced max 24 in. OC.
   B. Wallboard, Gypsum* – Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 3–3/8 in.

2. Through Penetrants – One nonmetallic pipe or tubing installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1 in. The following types and sizes of nonmetallic pipes or tubing may be used:
   A. Chlorinated Polyvinyl Chloride (CPVC) Pipe – Nom 2 in. diam (or smaller) CPVC pipe for use in closed (process or supply) piping systems.
   B. Polyvinyl Chloride (PVC) Pipe – Nom 2 in. diam (or smaller) Schedule 40 solid core or cellular core PVC pipe for use in closed (process or supply) piping system.
   C. Crosslinked Polyethylene (PEX) Tubing – Nom 1–1/2 in. diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.
   D. Rigid Nonmetallic Conduit+ – Nom 2 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).

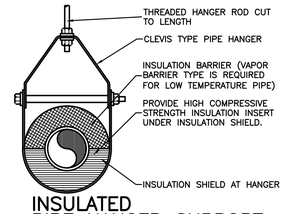
3. Fill, Void or Cavity Material* – Sealant – Min 5/8 in. thickness of fill material for 1 hr rated wall assemblies and min 1 in. thickness of fill material for 2, 3 or 4 hr rated wall assemblies, applied within the annulus, flush with both surfaces of wall. At point contact location between penetrant and periphery of opening, a min 1/2 in. diam bead of fill material shall be applied at the wallboard/penetrant interface on both sides of wall assembly.

Johns Manville International, Inc. – Firetemp™ CI

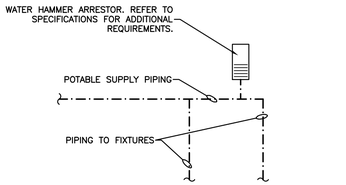
*Bearing the UL Classification Marking



NON–INSULATED PIPE HANGER SUPPORT
NOT TO SCALE

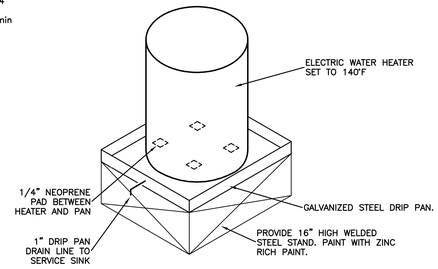


INSULATED PIPE HANGER SUPPORT
NOT TO SCALE

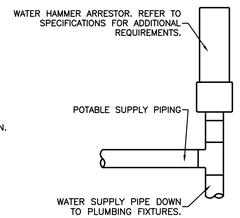


WATER HAMMER ARRESTOR DETAIL
NOT TO SCALE

REFER TO ELECTRIC WATER HEATER PIPING DETAIL FOR PIPING ARRANGEMENT.



ELECTRIC WATER HEATER FLOOR MOUNTED DETAIL
NOT TO SCALE

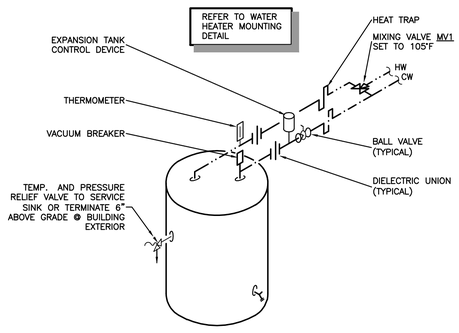


SIZE	FIXTURE UNITS	CROSS REF. PDI
1/2"	1–11	A
3/4"	12–32	B
1"	33–60	C
1 1/4"	61–113	D
1 1/2"	114–154	E
2"	155–330	F

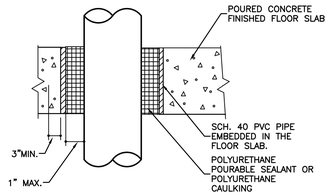
SIZING BASED ON PRECISION PLUMBING PRODUCTS "SWEAT IT ON" MODEL

WATER HAMMER ARRESTOR DETAIL
NOT TO SCALE

REFER TO WATER HEATER MOUNTING DETAIL



ELECTRIC WATER HEATER PIPING DETAIL
NOT TO SCALE



NOTE:
SEVERAL PIPES LESS THAN OR EQUAL TO 1" MAY BE ROUTED THROUGH ONE SLEEVE (3 MAX.). EACH PIPE LARGER THAN 1" SHALL HAVE ITS OWN SLEEVE.

SLAB–ON–GRADE PENETRATION DETAIL
NOT TO SCALE

1517 SEVENTH AVENUE
SUITE C
TAMPA, FLORIDA 33605.3716

TELEPHONE 813.242.6677
FACSIMILE 813.242.6683

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AA26000655

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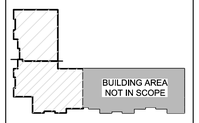
Email: AGI@agi-engineers.com HTTP://www.agi-engineers.com
Florida Engineering Business Number 6093

NOT FOR CONSTRUCTION
HARRY W. PORTELLOS, P.E. 61597
TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE 2014 FLORIDA BUILDING CODE



HILLSBOROUGH COUNTY
SHERIFF'S DEPARTMENT
P.O BOX 3371

HILLSBOROUGH COUNTY SHERIFF'S
DEPARTMENT RENOVATIONS
PINEBROOK BUSINESS PARK

PROJECT #: 1505-00	
DISTRIBUTION	DATE
CD CHECK SET	10/15/15
100% CONST. DOCS	11/16/15

PLUMBING DETAILS

P401

Drawing File: I:\15rev\15042.001\15042p401.dwg P401
Plotted by: Marsha Nov 16, 2015 - 3:28pm

OUTDOOR AIR VENTILATION RATES (based on ASHRAE 62.1)

Description of Area	ASHRAE 62.1 Table 6-1 Classification	People Outdoor Air Rate per ASHRAE table 6-1 cfm / person	x	Occupants Each (Oz)	=	People (Rp x Pz) cfm	Area Outdoor Air Rate (Ra) cfm / Sq. Ft.	x	Total Sq. Ft. (Az)	=	Area (Ra x Az) cfm	People cfm + Area cfm = uncorrected OA cfm (Vbz)	Air Distribution Effectiveness	Required Outside Air (CFM)
RT1 through RT17														
308 BK Invest	OFFICE: Office space	5	x	0	=	0	0.06	x	159	=	9.54	10	1.0	10
309 BK Invest	OFFICE: Office space	5	x	1	=	5	0.06	x	153	=	9.18	14	1.0	14
310 BK Invest	OFFICE: Office space	5	x	1	=	5	0.06	x	145	=	8.7	14	1.0	14
311 BK Invest	OFFICE: Office space	5	x	1	=	5	0.06	x	181	=	10.86	16	1.0	16
300D Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	279	=	0	–	1.0	–
305 Admin. Asst.	OFFICE: Office space	5	x	1	=	5	0.06	x	136	=	8.16	13	1.0	13
306 R&S Mgr	OFFICE: Office space	5	x	1	=	5	0.06	x	152	=	9.12	14	1.0	14
207 Lt Night A	OFFICE: Office space	5	x	1	=	5	0.06	x	157	=	9.42	14	1.0	14
208 Lt Night B	OFFICE: Office space	5	x	1	=	5	0.06	x	153	=	9.18	14	1.0	14
205 Lt Day A/B	OFFICE: Office space	5	x	1	=	5	0.06	x	135	=	8.1	13	1.0	13
205 Major	OFFICE: Office space	5	x	1	=	5	0.06	x	260	=	15.6	21	1.0	21
204 Captain	OFFICE: Office space	5	x	1	=	5	0.06	x	135	=	8.1	13	1.0	13
312 Corproal	OFFICE: Office space	5	x	1	=	5	0.06	x	152	=	9.12	14	1.0	14
314 Corproal		5	x	1	=	5	0.06	x	140	=	8.4	13	1.0	13
300E Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	179	=	0	–	1.0	–
213 Women's	–	0	x	0	=	0	0.00	x	40	=	0	–	1.0	–
212 Men's	–	0	x	0	=	0	0.00	x	37	=	0	–	1.0	–
303 Jan.	–	0	x	0	=	0	0.00	x	49	=	0	–	1.0	–
404 Co./Sup	OFFICE: Office space	5	x	0	=	0	0.06	x	78	=	4.68	5	1.0	5
307A File Stor.	OFFICE: Office space	5	x	1	=	5	0.06	x	137	=	8.22	13	1.0	13
307B Stor.	OFFICE: Office space	5	x	0	=	0	0.06	x	115	=	6.9	7	1.0	7
319 Conf. Rm.	OFFICE: Office space	5	x	4	=	20	0.06	x	136	=	8.16	28	1.0	28
318 T.D.Y	OFFICE: Office space	5	x	6	=	30	0.06	x	245	=	14.7	45	1.0	45
313 BK Invest	OFFICE: Office space	5	x	1	=	5	0.06	x	128	=	7.68	13	1.0	13
315 BK Invest	OFFICE: Office space	5	x	1	=	5	0.06	x	127	=	7.62	13	1.0	13
316 BK Invest	OFFICE: Office space	5	x	1	=	5	0.06	x	112	=	6.72	12	1.0	12
317 BK Invest	OFFICE: Office space	5	x	1	=	5	0.06	x	115	=	6.9	12	1.0	12
300F Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	188	=	0	–	1.0	–
320 BK Invest	OFFICE: Office space	5	x	1	=	5	0.06	x	115	=	6.9	12	1.0	12
322 Polygraph	OFFICE: Office space	5	x	0	=	0	0.06	x	67	=	4.02	4	1.0	4
321 Polygraph	OFFICE: Office space	5	x	0	=	0	0.06	x	67	=	4.02	4	1.0	4
323 Polygraph	OFFICE: Office space	5	x	0	=	0	0.06	x	70	=	4.2	4	1.0	4
300G Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	99	=	0	–	1.0	–
200H Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	395	=	0	–	1.0	–
001 Men's	–	0	x	0	=	0	0.00	x	196	=	0	–	1.0	–
002 Women's	–	0	x	0	=	0	0.00	x	197	=	0	–	1.0	–
211 Reserved	OFFICE: Office space	5	x	1	=	5	0.06	x	139	=	8.34	13	1.0	13
238 Stor. Rm.	OFFICE: Office space	5	x	0	=	0	0.06	x	107	=	6.42	6	1.0	6
300B Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	147	=	0	–	1.0	–
200J Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	174	=	0	–	1.0	–
300C Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	111	=	0	–	1.0	–
216 Complaint Off	OFFICE: Office space	5	x	1	=	5	0.06	x	115	=	6.9	12	1.0	12
215 Complaint Off.	OFFICE: Office space	5	x	1	=	5	0.06	x	122	=	7.32	12	1.0	12
216 Trf. Corp	OFFICE: Office space	5	x	1	=	5	0.06	x	136	=	8.16	13	1.0	13
215 Detect's Sgt	OFFICE: Office space	5	x	1	=	5	0.06	x	135	=	8.1	13	1.0	13
200A Wt. Area – South	OFFICE: Office space	5	x	10	=	50	0.06	x	348	=	20.88	71	1.0	71
200B Wt. Area – South 2	OFFICE: Office space	5	x	3	=	15	0.06	x	220	=	13.2	28	1.0	28
221 Traffic	OFFICE: Office space	5	x	3	=	15	0.06	x	213	=	12.78	28	1.0	28
200B Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	149	=	0	–	1.0	–
202A Clerical	OFFICE: Office space	5	x	6	=	30	0.06	x	732	=	43.92	74	1.0	74
203 Co Room	OFFICE: Office space	0	x	0	=	0	0.00	x	118	=	0	–	1.0	–
201A Prop Equip	OFFICE: Office space	0	x	0	=	0	0.00	x	99	=	0	–	1.0	–
201 ?	OFFICE: Office space	5	x	2	=	10	0.06	x	261	=	15.66	26	1.0	26
302 Men's	–	0	x	0	=	0	0.00	x	37	=	0	–	1.0	–
301 Women's	–	0	x	0	=	0	0.00	x	40	=	0	–	1.0	–
214 Jan.	–	0	x	0	=	0	0.00	x	41	=	0	–	1.0	–
210 Conf Rm S	OFFICE: Office space	5	x	12	=	60	0.06	x	407	=	24.42	84	1.0	84
217A Detect. Corp	OFFICE: Office space	5	x	1	=	5	0.06	x	109	=	6.54	12	1.0	12
209 Invest LT	OFFICE: Office space	5	x	1	=	5	0.06	x	152	=	9.12	14	1.0	14
220 St. Crimes Ut	OFFICE: Office space	5	x	14	=	70	0.06	x	767	=	46.02	116	1.0	116
200D Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	385	=	0	–	1.0	–
217 Detective Sq. Rm	OFFICE: Office space	5	x	12	=	60	0.06	x	681	=	40.86	101	1.0	101
222 Crime Anl.	OFFICE: Office space	5	x	1	=	5	0.06	x	123	=	7.38	12	1.0	12
223 Detectives	OFFICE: Office space	5	x	3	=	15	0.06	x	222	=	13.32	28	1.0	28
224 D.U.I Sgt	OFFICE: Office space	5	x	1	=	5	0.06	x	122	=	7.32	12	1.0	12
225 Intv. Rm	OFFICE: Office space	5	x	1	=	5	0.06	x	102	=	6.12	11	1.0	11
226 Secure Intv Rm	OFFICE: Office space	5	x	1	=	5	0.06	x	102	=	6.12	11	1.0	11
227 Secure Intv Rm	OFFICE: Office space	5	x	1	=	5	0.06	x	108	=	6.48	11	1.0	11
228 Copy	OFFICE: Office space	5	x	0	=	0	0.06	x	86	=	5.16	5	1.0	5
230 Patrol Sgt Nqt A	OFFICE: Office space	5	x	1	=	5	0.06	x	86	=	5.16	10	1.0	10
232 Patrol Sgt Nqt B	OFFICE: Office space	5	x	1	=	5	0.06	x	86	=	5.16	10	1.0	10

OUTDOOR AIR VENTILATION RATES (based on ASHRAE 62.1)

Description of Area	ASHRAE 62.1 Table 6-1 Classification	People Outdoor Air Rate per ASHRAE table 6-1 cfm / person	x	Occupants Each (Oz)	=	People (Rp x Pz) cfm	Area Outdoor Air Rate (Ra) cfm / Sq. Ft.	x	Total Sq. Ft. (Az)	=	Area (Ra x Az) cfm	People cfm + Area cfm = uncorrected OA cfm (Vbz)	Air Distribution Effectiveness	Required Outside Air (CFM)
RT1 through RT17														
200E Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	115	=	0	–	1.0	–
220A SCU Sgt A	OFFICE: Office space	5	x	1	=	5	0.06	x	87	=	5.22	10	1.0	10
233 Patrol Sgt Day B	OFFICE: Office space	5	x	1	=	5	0.06	x	77	=	4.62	10	1.0	10
231 Patrol Sgt Day A	OFFICE: Office space	5	x	1	=	5	0.06	x	79	=	4.74	10	1.0	10
229 Video Rm	OFFICE: Office space	5	x	1	=	5	0.06	x	78	=	4.68	10	1.0	10
220B SCU Sgt B	OFFICE: Office space	5	x	1	=	5	0.06	x	95	=	5.7	11	1.0	11
200F Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	410	=	0	–	1.0	–
234 Roll Call Room	OFFICE: Office space	5	x	52	=	260	0.06	x	1090	=	65.4	325	1.0	325
412 Men's	–	0	x	0	=	0	0.00	x	96	=	0	–	1.0	–
409 Women's	–	0	x	0	=	0	0.00	x	233	=	0	–	1.0	–
408 HR Director	OFFICE: Office space	5	x	1	=	5	0.06	x	333	=	19.98	25	1.0	25
400M Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	747	=	0	–	1.0	–
404 Co./Sup	OFFICE: Office space	5	x	0	=	0	0.06	x	78	=	4.68	5	1.0	5
414 Sr. Sec.	OFFICE: Office space	5	x	1	=	5	0.06	x	177	=	10.62	16	1.0	16
418 Vacant	OFFICE: Office space	5	x	0	=	0	0.06	x	142	=	8.52	9	1.0	9
421 Elec.	–	0	x	0	=	0	0.06	x	96	=	5.76	6	1.0	6
420 Electrical	–	0	x	0	=	0	0.06	x	94	=	5.64	6	1.0	6
401 Office	OFFICE: Office space	5	x	3	=	15	0.06	x	205	=	12.3	27	1.0	27
402 Co./Sup	OFFICE: Office space	5	x	0	=	0	0.06	x	92	=	5.52	6	1.0	6
403 HR Analyst	OFFICE: Office space	5	x	1	=	5	0.06	x	258	=	15.48	20	1.0	20
404 Co./Sup	OFFICE: Office space	5	x	0	=	0	0.06	x	78	=	4.68	5	1.0	5
405 Person'l Mgr	OFFICE: Office space	5	x	1	=	5	0.06	x	200	=	12	17	1.0	17
406 Sup	OFFICE: Office space	5	x	0	=	0	0.06	x	78	=	4.68	5	1.0	5
400N Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	222	=	0	–	1.0	–
441 HR Assist	OFFICE: Office space	5	x	1	=	5	0.06	x	116	=	6.96	12	1.0	12
442 HR Assist	OFFICE: Office space	5	x	1	=	5	0.06	x	116	=	6.96	12	1.0	12
443 Conf Room	OFFICE: Office space	5	x	10	=	50	0.06	x	213	=	12.78	63	1.0	63
400Q Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	417	=	0	–	1.0	–
444 HR Assist	OFFICE: Office space	5	x	1	=	5	0.06	x	116	=	6.96	12	1.0	12
436 HR Assist	OFFICE: Office space	5	x	1	=	5	0.06	x	116	=	6.96	12	1.0	12
445 ID/Photos	OFFICE: Office space	5	x	1	=	5	0.06	x	150	=	9	14	1.0	14
445A Chg. Rm.	OFFICE: Office space	0	x	0	=	0	0.00	x	24	=	0	–	1.0	–
445B Chg. Rm.	OFFICE: Office space	0	x	0	=	0	0.00	x	24	=	0	–	1.0	–
446 HR Assist	OFFICE: Office space	5	x	1	=	5	0.06	x	116	=	6.96	12	1.0	12
– 415A Training Rm North	OFFICE: Office space	7.5	x	24	=	180	0.06	x	575	=	34.5	215	1.0	215
415B Training Rm South	OFFICE: Office space	7.5	x	24	=	180	0.06	x	601	=	36.06	216	1.0	216
435 HR Testing – East	OFFICE: Office space	10	x	18	=	180	0.12	x	522.5	=	63	243	1.0	243
304 Recp	OFFICE: Office space	5	x	1	=	5	0.06	x	113	=	7	12	1.0	12
400A Wt. Rm/Recp. West	OFFICE: Office space	5	x	10	=	50	0.06	x	405	=	24	74	1.0	74
400B Corridor E-W	GENERAL: Corridor	0	x	0	=	0	0.00	x	104	=	–	–	1.0	–
400B Corridor N-S	GENERAL: Corridor	0	x	0	=	0	0.00	x	127	=	–	–	1.0	–
400C Corr/App Stat.Co	GENERAL: Corridor	0	x	1	=	0	0.06	x	306	=	18	18	1.0	18
437 Men's	–	0	x	0	=	0	0.00	x	67	=	–	–	1.0	–
437 Women's	–	0	x	0	=	0	0.00	x	67	=	–	–	1.0	–
400D Test Wt Area	OFFICE: Office space	5	x	10	=	50	0.06	x	228	=	14	64	1.0	64
420 Chaplin	OFFICE: Office space	5	x	1	=	5	0.06	x	142	=	9	14	1.0	14
423 Ana.l Pos. Ctl.	OFFICE: Office space	5	x	1	=	5	0.06	x	130	=	8	13	1.0	13
424 HR Res. Mgr.	OFFICE: Office space	5	x	1	=	5	0.06	x	127	=	8	13	1.0	13
425 Emp. Mgr.	OFFICE: Office space	5	x	1	=	5	0.06	x	127	=	8	13	1.0	13
400F Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	287	=	–	–	1.0	–
416 Vacant	OFFICE: Office space	5	x	1	=	5	0.06	x	129	=	8	13	1.0	13
417 Vacant	OFFICE: Office space	5	x	1	=	5	0.06	x	125	=	8	13	1.0	13
419 Vacant	OFFICE: Office space	5	x	1	=	5	0.06	x	125	=	8	13	1.0	13
427 HR Assist	OFFICE: Office space	5	x	1	=	5	0.06	x	122	=	7	12	1.0	12
428 Sr. HR Assist	OFFICE: Office space	5	x	1	=	5	0.06	x	122	=	7	12	1.0	12
429 Sr. HR Assist	OFFICE: Office space	5	x	1	=	5	0.06	x	126	=	8	13	1.0	13
400H Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	235	=	–	–	1.0	–
426 Supplies	OFFICE: Office space	5	x	0	=	0	0.06	x	63	=	4	4	1.0	4
431 Sr. HR Assist	OFFICE: Office space	5	x	1	=	5	0.06	x	118	=	7	12	1.0	12
432 Sr. HR Assist	OFFICE: Office space	5	x	1	=	5	0.06	x	117	=	7	12	1.0	12
443 Sr. HR Assist	OFFICE: Office space	5	x	1	=	5	0.06	x	120	=	7	12	1.0	12
400E Corridor	GENERAL: Corridor	0	x	0	=	0	0.00	x	175	=	–	–	1.0	–
435 HR Testing – West	OFFICE: Office space	10	x	18	=	180	0.12	x	522.5	=	63	243	1.0	243
407 Breakroom	OFFICE: Office space	5	x	10	=	50	0.12	x	637	=	76	126	1.0	126
236 Report Wr	OFFICE: Office space	5	x	5	=	25	0.06	x	187	=	11	36	1.0	36
235 Electrical	–	0	x	0	=	0	0.00	x	93	=	–	–	1.0	–
													Required Outside Air:	3,160
													Outside Air Provided:	3,350

GENERAL MECHANICAL NOTES

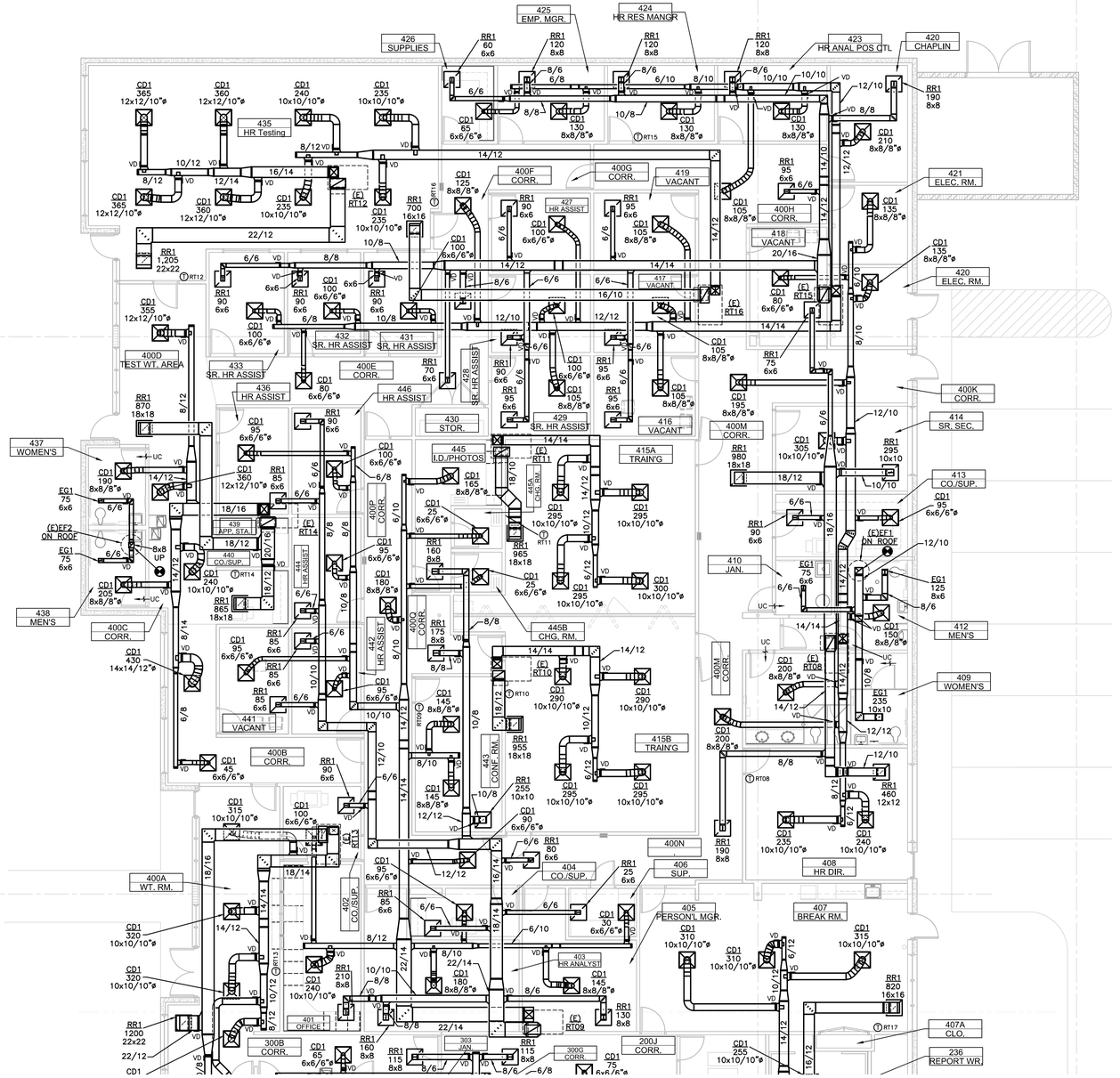
1. ALL MECHANICAL WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE FOLLOWING:
   A. FLORIDA BUILDING CODE (FBC) 5TH EDITION (2014): THIS CODE INCLUDES THE 2014 FBC BUILDING, MECHANICAL, PLUMBING, FUEL GAS AND ENERGY CONSERVATION VOLUMES. FURTHER, SEE "REFERENCED STANDARDS" IN THE FBC, BUILDING CHAPTER 35; FBC, PLUMBING CHAPTER 14; FBC, MECHANICAL CHAPTER 15; FBC, FUEL GAS CHAPTER 8, FBC, ENERGY CONSERVATION CHAPTER 5.) (EFFECTIVE JUNE 30, 2015)
   B. 5TH EDITION OF THE FLORIDA FIRE PREVENTION CODE (FFPC); (THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.) (EFFECTIVE DECEMBER 31, 2014)
   C. 2011 NATIONAL ELECTRIC CODE
2. VERIFY, BY VISITING THE SITE, THE LOCATION OF UTILITIES IN ALL AREAS BEFORE COMMENCING WORK.
3. COORDINATE ALL WORK WITH OTHER AFFECTED TRADES. THE MECHANICAL CONTRACTOR SHALL FORWARD TO THE ELECTRICAL CONTRACTOR AN APPROVED COPY OF ALL EQUIPMENT SHOP DRAWINGS FOR ELECTRICAL POWER/CONTROL INTERFACE.
4. COVER ALL ELECTRICAL AND MECHANICAL EQUIPMENT TO PROTECT THEM FROM DUST AND DAMAGE DURING CONSTRUCTION. RESTORE ALL FACTORY PAINTED SURFACES TO NEW CONDITION, REPAIR ALL SCRATCHES, DENTS AND ABRASIONS. THOROUGHLY CLEAN ALL SURFACES OF DUST DEBRIS, AND FOREIGN MATTER. THE EQUIPMENT, WHEN TURNED OVER TO THE OWNER, SHALL BE CLEAN AND FREE OF DEFECTS.
5. PRIOR TO SUBSTANTIAL COMPLETION, A COMPLETE CERTIFIED TEST AND BALANCE REPORT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS.
6. THE CONDENSATE DRAIN LINE SHALL HAVE A TRAP AT THE AIR HANDLING UNIT. TRAP SHALL BE AS DETAILED, FULL SIZE OF UNIT CONNECTION, AND SHALL HAVE A WATER SEAL EQUAL TO 2" + THE UNITS' STATIC PRESSURE. PROVIDE CLEAN OUTS IN ALL CHANGES OF DIRECTION. MINIMUM PITCH 1/8" PER FOOT. CONDENSATE DRAIN LINE SHALL RUN TO CONCRETE SPLASH BLOCK. INSULATE ALL INTERIOR CONDENSATE PIPING WITH FLEXIBLE UNICELLULAR FOAM (ARMAFLEX OR EQUIVALENT) INSULATION TO PREVENT SWEATING. CONDENSATE DRAIN LINES AND TRAPS IN MECHANICAL ROOMS SHALL BE PVC AND SHALL BE RIGIDLY SUPPORTED.
7. FLEXIBLE UNICELLULAR FOAM (ARMAFLEX OR EQUIVALENT) INSULATION SHALL BE 25/50 FLAME SPREAD/SMOKE DEVELOPED. REFRIGERANT PIPING SHALL BE INSULATED WITH FLEXIBLE UNICELLULAR FOAM INSULATION COMPLYING WITH ASTM C534, TYP. 1. PROVIDE ALUMINUM CLADDING FOR ALL INSULATION EXPOSED TO THE SUN AND WEATHER.
8. REFRIGERANT LINES SHALL BE SIZED AND REFRIGERANT SPECIALTIES SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR STATIC LIFTS AND TOTAL LENGTHS REQUIRED. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
9. IN GENERAL, PLANS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED.
10. ALL DUCTWORK SHALL MEET THE STANDARDS SET FORTH BY THE LATEST EDITION OF SMACNA "HVAC DUCT CONSTRUCTION STANDARDS". SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE FABRICATED FROM SHEET METAL. ALL ROUND DUCT SHALL BE SHEET METAL UNLESS OTHERWISE NOTED. PROVIDE TURNING VANES IN ALL 90° DUCT ELBOWS.
11. PROVIDE INSULATION FOR NEW DUCTWORK TO AND FROM THE UNIT WITH GLASS FIBER DUCT WRAP INSULATION. FACTORY APPLIED FOIL FACED VAPOR BARRIER, ASTM 518 AND ASTM E84 CERTIFIED TESTING PROCEDURES. JOINT TAPE SHALL BE MINIMUM 3" WIDE FOIL REINFORCED KRAFT TYPE. INSULATION THICKNESS SHALL BE A MINIMUM 2" THICK.
12. SUPPLY AIR DUCT FULL SIZE OF UNIT DISCHARGE. TRANSITION TO SIZE INDICATED ON DRAWINGS. RETURN AIR DUCT IS TO TRANSITION FROM SIZE INDICATED ON DRAWINGS TO FULL SIZE OF UNIT INLET.
13. ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS (FREE AREA).
14. VERIFY ALL CLEARANCES AND DIMENSIONS BEFORE FABRICATION OF DUCTWORK AND PROVIDE ADDITIONAL OFFSETS TO MEET FIELD CONDITIONS. ADJUST LOCATIONS OF ALL EQUIPMENT AND DUCTWORK, AS NECESSARY TO AVOID INTERFERENCES WITH STRUCTURAL AND OTHER BUILDING COMPONENTS.
15. UNLESS NOTED OTHERWISE, INSTALL DUCTWORK AS HIGH AS POSSIBLE, TIGHT TO UNDERSIDE OF STRUCTURE. COORDINATE DUCT ELEVATION WITH RAIN LEADERS, WATER PIPING, DRAINS, AND MAJOR ELECTRICAL CONDUITS AND LIGHTS. PROVIDE OFFSETS AND TRANSITIONS AS REQUIRED TO KEEP DUCTWORK TIGHT TO THE STRUCTURE AND MAINTAIN CEILING ELEVATIONS AS INDICATED IN THE ARCHITECTURAL DRAWINGS. DUCTWORK MAY BE FLATTENED TO A 4:1 HEIGHT RATIO MAINTAINING THE DUCT FREE AREA SIZE AS INDICATED IN THE DRAWINGS. DUCTWORK SHAPE MAY HAVE TO BE ADJUSTED (I.E. ROUND TO RECTANGULAR) AS SPACE DICTATES. MULTIPLE SMALLER RUNS MAY BE REQUIRED IN PLACE OF A SINGLE RUN. DUCT RECONFIGURATION SHALL BE INDICATED IN THE DUCT FABRICATION DRAWINGS AND FIELD VERIFIED PRIOR TO SUBMITTAL FOR ENGINEER'S REVIEW.
16. DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, AND OTHER ITEMS OF THE AIR HANDLING SYSTEM SHALL NOT BE SUPPORTED BY THE CEILING OR CEILING SUSPENSION SYSTEM.
17. ALL SUPPLY DUCTWORK 1" W.G. ALL SHEET METAL DUCTWORK SHALL HAVE A CLASS C SEAL.
18. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED TO INSTALL MECHANICAL EQUIPMENT AND MATERIALS.
19. REPLACE ANY CEILING TILES OR GRID, DAMAGED DURING CONSTRUCTION IN ANY AREAS WHERE THE CEILING IS REMOVED TO EXECUTE WORK. REPLACEMENT TILES AND TEES SHALL MATCH EXISTING.
20. IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE AIR HANDLERS MAY ONLY BE STARTED IF THE FOLLOWING CONDITIONS ARE MET:
   A. ALL OPENINGS FROM THE CONDITIONED SPACE DIRECTLY TO THE OUTSIDE MUST BE CLOSED. TEMPORARY CLOSURE METHODS MAY BE USED SUCH AS THE UTILIZATION OF PLASTIC SHEETS AND DUCT TAPE.
   B. MOP CLEAN ALL CONSTRUCTION DEBRIS AND DUST FROM THE FLOOR. PROVIDE DOOR MATS AT ALL ENTRANCES INTO THE BUILDING.
   C. TEMPORARY BARRIERS ARE TO BE PROVIDED AROUND AREAS THAT WILL HAVE ANY CONCRETE GRINDING OPERATION, DRYWALL WORK, PAINTING OR ANY OTHER PARTICULATE PRODUCING PROCESSES. ALL AIR DISTRIBUTION DEVICES IN THESE AREAS OF CONTAINMENT ARE TO BE COVERED AND SEALED AIR TIGHT.
   D. ALL RETURN GRILLES SHALL HAVE MERV-8 FILTER MEDIA TAPED OVER THEM PRIOR TO AIR HANDLER STARTUP AND SHALL REMAIN IN PLACE UNTIL ALL DUST PRODUCING OPERATIONS HAVE BEEN COMPLETED AND PRIOR TO TEST AND BALANCE. CLEAN ALL TAPE RESIDUE FROM THE GRILLES.
   E. ONCE THE UNIT IS STARTED, FILTERS IN THE AIR HANDLERS ARE TO BE SHAKEN CLEAN DAILY.
24. OMIT INSULATION ON TRANSFER DUCT SYSTEM. TRANSFER DUCT SYSTEMS ARE CONNECTED TO "XG#" TYPE AIR DISTRIBUTION DEVICES.
25. SUBMIT DUCT FABRICATION DRAWINGS PER SPECIFICATIONS PRIOR TO ANY FRAMING WORK. ALL ELECTRICAL PANEL LOCATIONS SHALL BE FIELD VERIFIED, COORDINATED, AND INDICATED IN THE SUBMITTAL.
26. ALL DUCT MOUNTED MANUAL BALANCING DAMPERS SHALL HAVE A TWO FOOT LONG, YELLOW STRIP OF MATERIAL ATTACHED TO THE DAMPER HANDLE FOR EASY VISUAL IDENTIFICATION.
27. ALL FIRE STOPPING SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S U.L. DETAILS OF THE PRODUCTS USED SPECIFICALLY ON THIS PROJECT. APPLICABLE U.L. DETAILS SHALL BE SUBMITTED FOR THE ENGINEER'S REVIEW AND A COPY SHALL BE AVAILABLE ON SITE FOR USE BY THE AUTHORITY HAVING JURISDICTION.
28. CONTROLS CONDUITS SHALL CONFORM TO ALL REQUIREMENTS FOR DIVISION 16 CONDUITS. REFER TO DIVISION 26 SPECIFICATIONS AND DRAWINGS.
29. CONCRETE SLAB/PAD IS TO HAVE NO CONTACT WITH ANY METAL PORTION OF THE EQUIPMENT OR THAT EQUIPMENT'S SUPPORT. PROVIDE 1/4" THICK RED, OR BLACK, RUBBER PAD UNDER THE ENTIRE METAL SURFACE INTENDED TO REST ON THE CONCRETE PAD.
30. PROVIDE DIELECTRIC UNIONS/PROTECTION AT ALL POINTS OF CONNECTION BETWEEN DISSIMILAR METALS; PIPE, PIPE HANGERS, CONNECTIONS TO STRUCTURAL STEEL, ETC.
31. ROUND FLEX DUCT SHALL BE A MAXIMUM LENGTH OF 6 FEET. ALL RUNS OF FLEX DUCT ARE TO BE SUPPORTED WITH THE APPROPRIATE HANGERS. FLEX DUCT SHALL NOT SAG OR BE CRIMPED.
32. AIR CONDITIONING FILTERS ARE TO BE PROVIDED AND CHANGED BY THE CONTRACTOR UP TO AND ON THE DATE OF SUBSTANTIAL COMPLETION ACCEPTANCE. FROM THAT TIME ON, THE OWNER WILL RETAIN ALL RESPONSIBILITY FOR FILTER MAINTENANCE. FILTERS SHALL BE CLEAN AT THE TIME OF SUBSTANTIAL COMPLETION.
33. LOCATE ALL AIR DISTRIBUTION DEVICES AND CEILING MOUNTED EQUIPMENT IN CONFORMANCE WITH THE REFLECTED CEILING PLANS INCLUDED IN THE ARCHITECTURAL DRAWINGS FOR THIS PROJECT. COORDINATE DUCTWORK TO ALLOW FOR LOCATIONS OF THESE ITEMS. PROVIDE REVISED DUCTWORK LAYOUT WHERE REQUIRED. ANY MECHANICAL ITEMS EXPOSED TO VIEW SHALL BE PLACED PER THE ARCHITECTURAL DRAWINGS.
39. ALL EXTERIOR FASTENERS, ANCHORS, SUPPORTS, AND MOUNTING HARDWARE SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.

DESIGN CRITERIA

Location:	TAMPA
Latitude:	28.0°
Longitude:	82.0°
Elevation:	19 ft.
Barometric Pressure:	29.9 in. Hg

DESIGN TEMPERATURES:

Ambient Summer Design Dry Bulb:	91°F
Ambient Summer Design Wet Bulb:	80°F
Ambient Winter Design Dry Bulb:	39°F
Space Setpoint – cooling	76°F
Space Setpoint – heating	70°F
Space Set



0' 4' 8' 16'

HVAC PLAN - NORTH
1/8" = 1'-0"

A1

1517 SEVENTH AVENUE
SUITE C
TAMPA, FLORIDA 33605.3716

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NOT FOR CONSTRUCTION

HARRY W. PORTELLOS, P.E. 61597
TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE 2014 FLORIDA BUILDING CODE

BUILDING AREA NOT IN SCOPE

HILLSBOROUGH COUNTY
SHERIFF'S DEPARTMENT
P.O BOX 3371

HILLSBOROUGH COUNTY SHERIFF'S
DEPARTMENT RENOVATIONS
PINEBROOK BUSINESS PARK

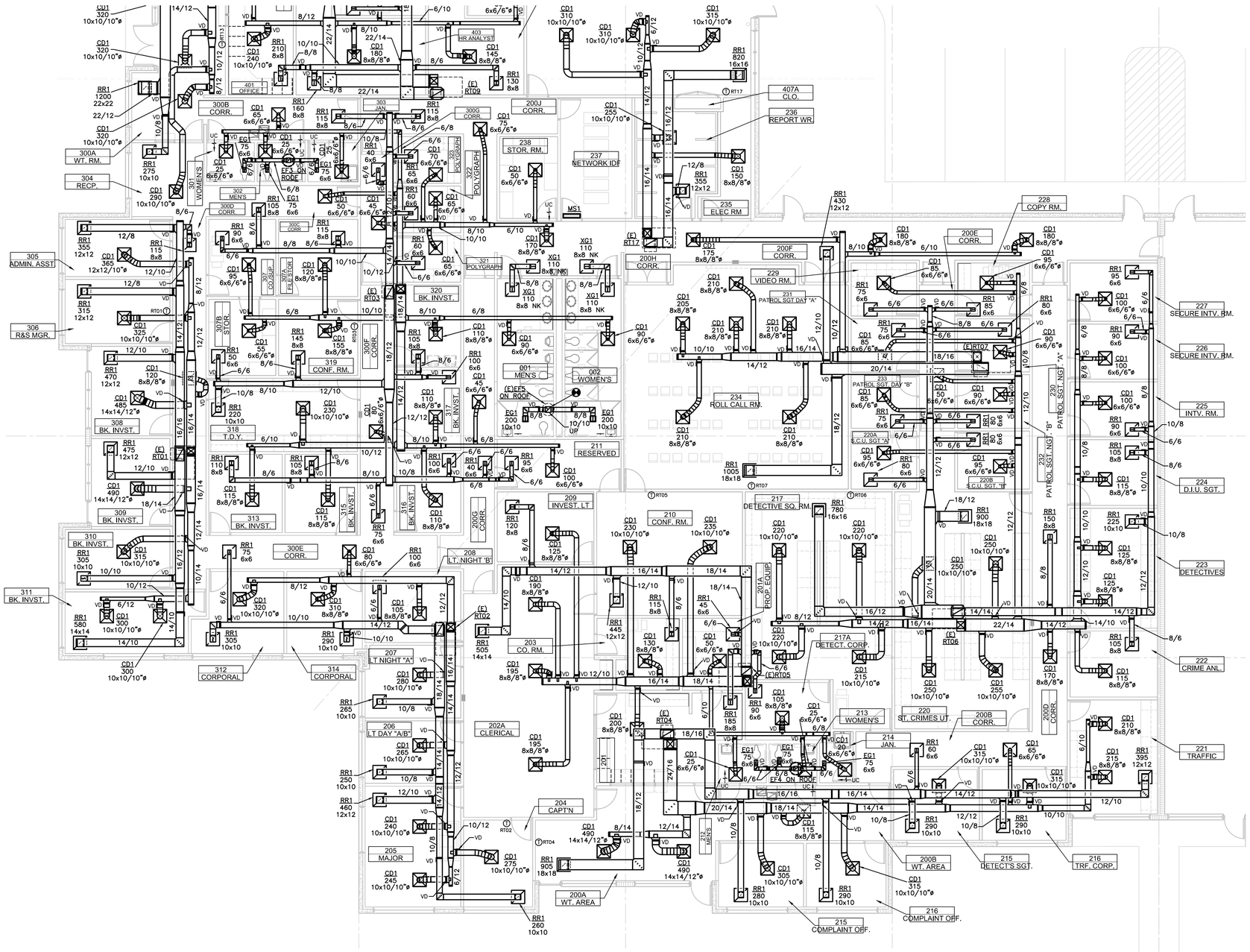
PROJECT #: 1505-00

DISTRIBUTION	DATE
CD CHECK SET	10/15/15
100% CONST. DOCS	11/16/15

HVAC PLAN - NORTH

M101

Drawing File: J:\15xxx\15042.001\15042m101.dwg M101
Plotted by: Harry Nov 16, 2015 - 3:04pm



HVAC PLAN - SOUTH
1/8" = 1'-0"
A1

Drawing File: I:\15yrs\15042.001\15042m101.dwg M102
Plotted by: Harry Nov 16, 2015 - 3:04pm

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100% CONST. DOCS	11/16/15

HVAC PLAN - SOUTH

M102

PACKAGED ROOFTOP UNIT SCHEDULE

MARK	UNITS	(E)RT01	(E)RT02	(E)RT03	(E)RT04	(E)RT05	(E)RT06	(E)RT07	(E)RT08	(E)RT09
NOMINAL TONS	TONS	6.0	6.0	6.0	6.0	6.0	8.5	5.0	6.0	7.5
TOTAL SUPPLY AIR	CFM	2,700	2,120	2,295	2,835	1,725	3,510	1,790	1,970	2,045
STATIC PRESSURE (EXT./TOTAL)	IN. H O	1.5/–	1.25/–	1.25/–	1.5/–	1.25/–	1.5/–	1.25/–	1.25/–	1.25/–
OUTSIDE AIR QUANTITY	CFM	85	115	215	220	225	375	355	70	245
OUTSIDE AIR TEMPERATURE DB/WB	°F/°F	91.0 / 80.0	91.0 / 80.0	91.0 / 80.0	91.0 / 80.0	91.0 / 80.0	91.0 / 80.0	91.0 / 80.0	91.0 / 80.0	91.0 / 80.0
ENTERING TEMPERATURE DB/WB	°F/°F	75.3 / 62.8	75.9 / 63.6	76.7 / 64.1	76.2 / 63.4	77.3 / 64.6	77.0 / 64.2	78.6 / 67.9	75.5 / 64.0	77.1 / 64.5
COOLING COIL TOTAL CAPACITY (NET)	MBH	61.0	48.7	64.8	73.5	55.4	108.9	62.7	40.5	62.8
COOLING COIL SENSIBLE CAPACITY (NET)	MBH	54.8	42.8	51.3	61.8	41.4	83.0	39.8	36.2	47.5
LEAVING TEMPERATURE COOLING DB/WB	°F/°F	56.5 / 55.3	57.2 / 56.1	56.0 / 54.8	56.0 / 54.8	55.1 / 54.0	55.1 / 53.9	58.0 / 57.1	58.5 / 57.4	55.6 / 54.4
FILTERS	TYPE/EFF.	30% PLEATED	30% PLEATED FILTER	30% PLEATED	30% PLEATED	30% PLEATED	30% PLEATED	30% PLEATED	30% PLEATED	30% PLEATED
ELECTRIC HEAT (MINIMUM)	kW	18	15	17	21	14	27	16	13	16
ELECTRIC HEAT (MINIMUM)	STEPS	2	1	2	2	1	2	1	1	1
FAN MOTOR	BHP/HP	2.4/–	2.4/–	2.4/–	2.4/–	2.4/–		–/1.5	2.4/–	2.4/–
ELECTRICAL CHARACTERISTICS	V/ø/HZ	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60
FAN ARRANGEMENT/TYPE	–	DOWNFLOW FC	DOWNFLOW FC	DOWNFLOW FC	DOWNFLOW FC	DOWNFLOW FC	DOWNFLOW FC	DOWNFLOW FC	DOWNFLOW FC	DOWNFLOW FC
MANUFACTURER	–	Carrier	Carrier	Carrier	Carrier	Carrier	Carrier	Trane	Carrier	Carrier
MODEL	–	50TJ–007	50TJ–007	50TJ–007	50TJ–007	50TJ–007	50TJ–009	TSC060	50TJ–007	50TC–D08
SEER/EER/IEER (MINIMUM)	–/–/–	13.0 / – / –	13.0 / – / –	13.0 / – / –	– / 11.2 /11.4	13.0 / – / –	– / 11.2 /11.4	13.0 / – / –	13.0 / – / –	13.0 / – / –
MCA	AMPS	–	–	–	–	–	–	–	–	–
MOCP	AMPS	–	–	–	–	–	–	–	–	–
UNIT LOCATION	–	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
SPACE SERVED	–	BK Invest.	Major	Polygraph	South Waiting	South Waiting	South Waiting	Roll Call	HR Director	HR
NOTES	–	1	1	1	1	1	1	1	1	1

MARK	UNITS	(E)RT10	(E)RT11	(E)RT12	(E)RT13	(E)RT14	(E)RT15	(E)RT16	RT17 – Breakroom	
NOMINAL TONS	TONS	7.5	7.5	6.0	4.0	4.0	5.0	5.0	3.5	
TOTAL SUPPLY AIR	CFM	1,170	1,185	1,450	1,565	1,825	1,895	945	1,190	
STATIC PRESSURE (EXT./TOTAL)	IN. H O	0.75/–	0.75/–	1.0/–	1.0/–	1.5/–	1.25/–	0.75/–	0.75/–	
OUTSIDE AIR QUANTITY	CFM	215	220	245	90	90	175	245	165	
OUTSIDE AIR TEMPERATURE DB/WB	°F/°F	91.0 / 80.0	91.0 / 80.0	91.0 / 80.0	91.0 / 80.0	91.0 / 80.0	91.0 / 80.0	91.0 / 80.0	91.0 / 80.0	
ENTERING TEMPERATURE DB/WB	°F/°F	78.5 / 66.7	77.9 / 66.1	77.8 / 65.3	75.8 / 62.9	76.0 / 62.9	76.6 / 64.2	79.8 / 67.4	77.5 / 65.0	
COOLING COIL TOTAL CAPACITY (NET)	MBH	40.6	42.2	49.6	42.3	44.8	52.1	37.8	38.5	
COOLING COIL SENSIBLE CAPACITY (NET)	MBH	27.5	27.1	35.4	35.2	39.6	41.3	24.6	28.3	
LEAVING TEMPERATURE COOLING DB/WB	°F/°F	56.7 / 55.7	56.7 / 54.6	55.2 / 54.1	55.0 / 53.8	55.9 / 54.7	56.4 / 55.2	55.7 / 54.7	55.5 / 54.4	
FILTERS	TYPE/EFF.	30% PLEATED	30% PLEATED	30% PLEATED	30% PLEATED	30% PLEATED	30% PLEATED	30% PLEATED	30% PLEATED	
ELECTRIC HEAT (MINIMUM)	kW	10	10	12	11	13	14	9	10	
ELECTRIC HEAT (MINIMUM)	STEPS	1	1	1	1	1	1	1	1	
FAN MOTOR	BHP/HP	2.4/–	2.4/–	2.4/–	0.75/–	0.75/–	1.2/–	1.2/–	0.34/–	
ELECTRICAL CHARACTERISTICS	V/ø/HZ	208/3/60	208/3/60	208/3/60	208/1/60	208/1/60	208/3/60	208/3/60	208/1/60	
FAN ARRANGEMENT/TYPE	–	DOWNFLOW FC	DOWNFLOW FC	DOWNFLOW FC	DOWNFLOW FC	DOWNFLOW FC	DOWNFLOW FC	DOWNFLOW FC	DOWNFLOW FC	
MANUFACTURER	–	Carrier	Carrier	Carrier	Carrier	Carrier	Carrier	Carrier	Carrier	
MODEL	–	50TJ–008	50TJ–008	50TJ–007	50TJ–005	50TJ–005	50TJ–006	50TJ–006	50TJ–004	
SEER/EER/IEER (MINIMUM)	–/–/–	13.0 / – / –	13.0 / – / –	13.0 / – / –	13.0 / – / –	13.0 / – / –	13.0 / – / –	13.0 / – / –	13.0 / – / –	
MCA	AMPS	–	–	–	–	–	–	–	–	
MOCP	AMPS	–	–	–	–	–	–	–	–	
UNIT LOCATION	–	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	
SPACE SERVED	–	Training Room N.	Training Room S.	HR Testing East	West Recp. Area	HR Test Waiting	Chaplin HR Assist	HR Testing West	Breakroom	
NOTES	–	1	1	1	1	1	1	1	1	

NOTES:

1. BALANCE TO VALUES AS INDICATED IN SCHEDULE.

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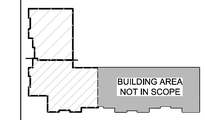

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HILLSBOROUGH COUNTY SHERIFF'S
DEPARTMENT RENOVATIONS
PINEBROOK BUSINESS PARK

PROJECT #: 1505-00

DISTRIBUTION	DATE
CD CHECK SET	10/15/15
100% CONST. DOCS	11/16/15

HVAC SCHEDULES

M201

Drawing File: J:\15wa\15042.001\15042m201.dwg M201
Plotted by: Harry Nov 16, 2015 – 3:04pm

AIR DISTRIBUTION DEVICE SCHEDULE

MARK		CD1	CD2	RR1	RR2	EG1	XG1
NECK SIZE	INCH	–	–	–	–	–	22x22
MODULE/FACE SIZE	INCH	24x24/24x24	–	24x24/23x23	–/–	–/–	24x24/23x23
MANUFACTURER	–	J&J	J&J	TITUS	TITUS	TITUS	TITUS
MODEL	–	AL1444–33–TR	AL1444	PAR–AA	PAR–AA	50F	PAR–AA
CONSTRUCTION	–	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM
NOTES	–	1,2,4	1,2,4	1,4,7	1,4,7	1,4,6,7	1,4,7

NOTES:

1. NECK SIZE OF DEVICE IS EQUAL TO THE DUCT SIZE INDICATED ON THE DRAWING.
2. PROVIDE WITH SQUARE TO ROUND ADAPTER. REFER TO PLANS FOR SIZE.
3. NOT USED.
4. SEE PLANS FOR SIZE.
5. PROVIDE WITH AUXILIARY FRAME.
6. WHERE GRILLE IS INDICATED TO BE LOCATED IN LAY–IN CEILINGS, PROVIDE 24x24 LAY–IN PANEL BORDER, WHITE IN COLOR.
7. PAINT INSIDE OF DUCT & GRILLE FLAT BLACK WHEN CAN BE SEEN THROUGH FACE OF GRILLE.

REMARKS:

A. REFER TO PLANS FOR EXACT LOCATIONS OF ALL DIFFUSERS, GRILLES AND REGISTERS.

B. COORDINATE FRAME STYLES WITH CEILING SYSTEM ACTUALLY FURNISHED.

C. NC VALUES FOR DIFFUSERS, GRILLES AND REGISTERS SHALL NOT EXCEED 35 WITH A ROOM ABSORPTION RATE OF 10db ie.. 10–12 WATTS.

D. REFER TO THE MECHANICAL LEGEND FOR A DESCRIPTION OF THE AIR DEVICE MARK.

E. WHERE THE CONNECTING DUCT OR PLENUM CAN BE OBSERVED THROUGH THE FACE OF THE GRILLE, THE VISIBLE DUCTWORK SHALL BE PAINTED FLAT BLACK.

FAN SCHEDULE

MARK	SERVES	CFM	DRIVE	TIP SPEED	MOTOR RPM	FAN RPM	S.P. IN. H 0	ELECTRICAL VOLT/ø/60	MOTOR HP BHP/HP	SONES	MANUFACTURER	MODEL	MOUNTING LOCATION	WEIGHT	INTERLOCK	CURB CAP SIZE	FAN TO CURB ANCHORAGE ++	ROOF DECK TYPE	CURB TO DECK ANCHORAGE	NOTES
(E)EF1	NE GROUP RR AND JAN.	435	DIRECT	(E)	(E)	(E)	0.375	120/1/60	(E)	(E)	(E)	(E)	ROOF CURB	–	LIGHTS	(E)	(E)	(E)	(E)	7
(E)EF2	NW RESTROOMS	150	DIRECT	(E)	(E)	(E)	0.375	120/1/60	(E)	(E)	(E)	(E)	ROOF CURB	–	LIGHTS	(E)	(E)	(E)	(E)	7
EF3	SW RESTROOMS AND JAN.	225	DIRECT	3,458	1,725	1,626	0.375	120/1/60	0.03/0.167	4.9	GREENHECK	G–070–VG	ROOF CURB	21	LIGHTS	11x11	1/4" fastener, 2 per side	STEEL	REFER TO STRUCTURAL DRAWINGS	1,2,3,4,5,6,7
EF4	SE RESTROOMS AND JAN.	225	DIRECT	3,458	1,725	1,626	0.375	120/1/60	0.03/0.167	4.9	GREENHECK	G–070–VG	ROOF CURB	21	LIGHTS	11x11	1/4" fastener, 2 per side	STEEL	REFER TO STRUCTURAL DRAWINGS	1,2,3,4,5,6,7
(E)EF5	SE GROUP RESTROOMS	400	DIRECT	(E)	(E)	(E)	0.375	120/1/60	(E)	(E)	(E)	(E)	ROOF CURB	–	LIGHTS	(E)	(E)	(E)	(E)	7

NOTES:

1. COORDINATE WITH ELECTRICAL DRAWINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE WITH FACTORY DISCONNECT.
3. HARDWIRE INTERLOCK AS INDICATED IN SCHEDULE. PROVIDE ALL REQUIRED STARTERS, CONTACTS, AND RELAYS.
4. PROVIDE WITH ELECTRIC FAN SPEED CONTROL.
5. PROVIDE WITH 14" ROOF CURB (REFER TO SPECIFICATIONS). INSTALLATION SHALL BE COORDINATED THROUGH THE GENERAL CONTRACTOR. PROVIDE GASKET SEAL BETWEEN FAN AND CURB.
6. PROVIDE BACKDRAFT DAMPER.
7. BALANCE TO AIR FLOWS LISTED IN SCHEDULE.

++ BASIS OF DESIGN SHOWN. REFER TO FAN'S FLORIDA PRODUCT APPROVAL NOA FOR ACTUAL SIZE AND QUANTITY.

COMPONENTS FOR MINI–SPLIT SYSTEM INSTALLATION

1. INTERIOR LINESET COVER: ALL LINESETS, WHICH ARE INSTALLED INSIDE THE BUILDING, SHALL BE ENCLOSED IN AN EXTRUDED PVC LINESET COVER SYSTEM, WHICH SHALL CONSIST OF COMPONENTS THAT DISASSEMBLE EASILY TO PROVIDE RAPID INSTALLATION AND FACILITATE FUTURE ACCESS FOR TESTING AND/OR REPAIRS AND SHALL HAVE NO EXPOSED FIXINGS OR CLOSURE MECHANISMS. THEY SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. LINESET COVERS FABRICATED FROM FOLDED METAL OR FROM PLASTIC OR METAL DOWNSPOUTS ARE NOT ACCEPTABLE. ENCLOSURE SYSTEM SHALL BE SLIMDUCT MD SERIES OR EQUIVALENT WITH COMPATIBLE AND APPROPRIATE ELBOWS, COUPLERS, CEILING TRIM, WALL INLETS, AND END COVERS.

2. EXTERIOR LINESET COVER: ALL LINESETS, WHICH ARE INSTALLED OUTSIDE THE BUILDING, SHALL BE ENCLOSED IN AN EXTRUDED PVC LINESET ENCLOSURE SYSTEM, WHICH SHALL CONSIST OF COMPONENTS THAT DISASSEMBLE EASILY TO PROVIDE RAPID INSTALLATION AND FACILITATE FUTURE ACCESS FOR TESTING AND/OR REPAIRS. ALL CLOSURE SCREWS AND ANY EXPOSED FIXING HARDWARE SHALL BE STAINLESS STEEL. NO EXTERNAL FIXINGS SHALL BE VISIBLE EXCEPT IN THE CASE OF SPECIFIC COMPONENTS THAT CANNOT BE FIXED INTERNALLY. ALL LINESET COVERS SHALL BE CORRECTLY SIZED TO ACCOMMODATE THE LINESET ITSELF AND ANY DRAIN HOSE OR ELECTRICAL WIRING WHICH MAY ALSO BE ENCLOSED. LINESET COVERS SHALL BE APPROPRIATELY COLORED TO FIT IN WITH BUILDING ARCHITECTURE AND SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. LINESET COVERS FABRICATED FROM FOLDED METAL OR FROM PLASTIC OR METAL DOWNSPOUTS ARE NOT ACCEPTABLE LINESET COVERS SHALL BE SLIMDUCT SD SERIES OR EQUIVALENT WITH COMPATIBLE AND APPROPRIATE ELBOWS, COUPLERS, WALL INLETS, AND END COVERS. ALL ASSOCIATED ANCHORAGE AND CONNECTING HARDWARE SHALL BE EITHER STAINLESS STEEL OR HOT DIPPED GALVANIZED.

3. CONDENSATE DRAIN HOSE: CONDENSATE DRAIN HOSE SHALL BE ADEQUATELY SIZED AND INSTALLED WITH SUFFICIENT SLOPE TO ENSURE GRAVITY FLOW OF CONDENSATE WATER TO OUTSIDE THE BUILDING. WHERE GRAVITY FLOW IS NOT POSSIBLE, A SUITABLY SIZED PUMP SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ALL DRAIN HOSE SHALL BE FLEXIBLE AND SHALL BE INSTALLED WITHOUT KINKS OR RESTRICTIONS, WHICH COULD INHIBIT THE FREE FLOW OF CONDENSATE WATER. INSULATED CONDENSATE DRAIN HOSE SHALL BE SLIMDUCT MODEL DSH–14 OR EQUIVALENT.

4. CONDENSER MOUNTING BRACKETS: ALL MINISPLIT CONDENSERS SHALL BE FIRMLY MOUNTED IN AN AREA, WHICH IS EASILY ACCESSIBLE FOR PERIODIC MAINTENANCE AND/OR REPAIRS. CONDENSER BRACKETS SHALL BE PRESSED STEEL, GALVANIZED AND POWDER COATED. ALL BOLTS AND FIXINGS SHALL BE RUSTPROOF AND ALL BRACKETS SHALL BE FITTED WITH RUBBER ANTI VIBRATION MOUNTINGS UNDERNEATH THE CONDENSER. BRACKETS SHALL BE CORRECTLY SIZED FOR PHYSICAL DIMENSIONS OF CONDENSER AND WEIGHT CAPABILITY AND SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUITABILITY OF BOTH MOUNTING SURFACE AND FIXING BOLTS TO HANDLE COMBINED LOAD SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO INSTALLATION.

A. ROOF MOUNTED: CONDENSERS INSTALLED DIRECTLY ONTO RISERS, EQUIVALENT TO SLIMDUCT PLAROCK MODEL PR–351N–I WITH PRC–351 END CAPS OR EQUIVALENT UTILIZING HOT DIPPED GALVANIZED BOLTS.

5. CONDENSATE PUMP: WHERE CONDENSATE DISCHARGE TERMINATES ABOVE AC UNIT ELEVATION, A CONDENSATE DRAIN PUMP EQUIVALENT TO 115 VOLT/60 HZ., 20 WATT EZ–TRAP/ASPEN PUMPS MODEL ASP–ML–115 WITH INSTALLATION KIT PROVIDED. THE INSTALLATION KIT SHALL INCLUDE PUMP/CABLE ASSEMBLY, PVC ELBOW AND LINESET COVER, CEILING FLASHING, INLET AND DISCHARGE HOSE, WALLPLUGS AND SCREWS.

A. THE PUMP SHALL BE SELF PRIMING AND SELF LEVELING, OPERATES AUTOMATICALLY ON WATER RISE, HAS A CAPACITY OF 0.8 GPH. @ 26 FOOT HEAD, OPERATES EXTREMELY QUIETLY AT 23 DB(A) AND SHALL BE RATED FOR MINISPLITS UP TO 30,000 BTU/HR. THE PUMP SHALL BE THERMALLY PROTECTED, POTTED FOR WATER RESISTANCE, INCLUDES WATERPROOF TERMINATION OF ELECTRICAL AND ALARM WIRING AND IS UL LISTED. THE PUMP AND WATER LEVEL SENSOR SHALL BE CONSOLIDATED INTO ONE SINGLE UNIT IN WHICH THE PUMP IS MOUNTED DIRECTLY ABOVE THE SENSOR HOUSING/RESERVOIR WHICH IS TRANSPARENT TO FACILITATE INSPECTION. THE SENSOR HOUSING/RESERVOIR DISASSEMBLES EASILY FROM THE PUMP TO FACILITATE CLEANING AND MAINTENANCE AND INCLUDES A STAINLESS STEEL MESH FILTER WHICH EASILY REMOVABLE FOR CLEANING. IT ALSO INCLUDES VOLT FREE NO & NC CONTACTS RATED AT 5 AMP INDUCTIVE AND 8 AMP RESISTIVE AT LINE VOLTAGE. THESE CONTACTS WILL ENERGIZE THE PUMP ON RISE OF WATER LEVEL, HOWEVER, IF THE WATER LEVEL CONTINUES TO RISE BECAUSE WATER IS NOT BEING EVACUATED FOR ANY REASON, THEY WILL CUT POWER TO PUMP AND EVAPORATOR.

B. THE PUMP SHALL BE LOCATED AT THE FIRST LINESET COVER ELBOW FROM THE AC UNIT. THE ELBOW AND LINESET COVER BOTH HAVE REMOVABLE COVERS WHICH PROVIDE EASY ACCESS FOR INSTALLATION, CHECKING AND MAINTENANCE OF THE PUMP UNIT AND/OR THE DRAIN HOSES, WIRING OR LINESETS.

MINI–SPLIT UNIT SCHEDULE

MARK		AC1/CU1
AREA SERVED	–	NETWORK IDF
COOLING CAPACITY	BTUH	22,500
HEATING CAPACITY	BTUH	27,600
AIR QUANTITY (HIGH)	CFM	625
ENERGY EFFICIENCY	SEER	15.2
REFRIGERANT	–	R–410A
MANUFACTURER	–	MITSUBISHI
INDOOR MODEL	–	MSZ–GE24NA
DIMENSIONS (WxHxD)	IN.	44x13x9
CU/HP MODEL	–	MUZ–GE24NA
DIMENSIONS (WxHxD)	IN.	33x35x13
ELECTRICAL	V/PH	208/1
MCA/MAX FUSE	AMP/AMP	17.1/20
NOTES		1,2,3,4,5,6

NOTES:

1. DUCTLESS SPLIT AIR CONDITIONING UNIT WITH REMOVABLE FRONT GRILLE, WASHABLE REUSABLE FILTERS, AUTO–RESTART. PROVIDE POWER SUPPLY CORD AND ACCESSORIES FOR WALL MOUNTING, WIRELESS REMOTE CONTROL WITH 24 HOUR TIMER, FOUR SPEED FAN CONTROL, AUTO–COOL–DRY–FAN MODE. UL LISTED.
2. CU SHALL BE SECURED TO THE SUPPORTS WITH HOT DIPPED GALVANIZED HARDWARE. ALL REFRIGERANT LINES SHALL BE RIGIDLY SUPPORTED. CONCEAL LINES AS MUCH AS POSSIBLE.
3. INSULATE ALL SUCTION LINES.
4. SHALL BE ON EMERGENCY GENERATOR.
5. PROVIDE WITH INLINE CONDENSATE PUMP POWERED THROUGH THE AIR HANDLER.
6. PROVIDE ROOF MOUNTING BRACKET.

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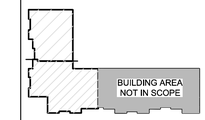

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PINEBROOK BUSINESS PARK

PROJECT #: 1505-00

DISTRIBUTION	DATE
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100% CONST. DOCS	11/16/15

HVAC SCHEDULES

M202

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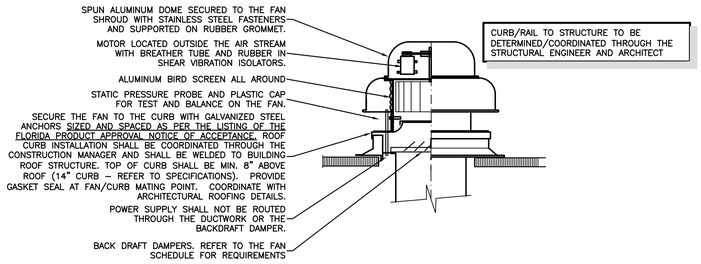
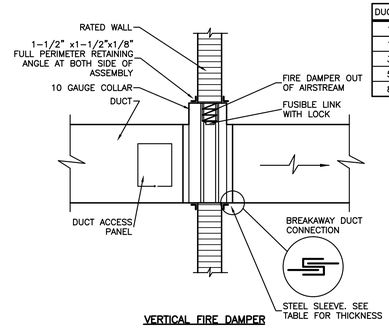
Plotted by: Harry Nov 16, 2015 3:04pm



CENTRIFUGAL ROOF EXHAUST FAN
NOT TO SCALE

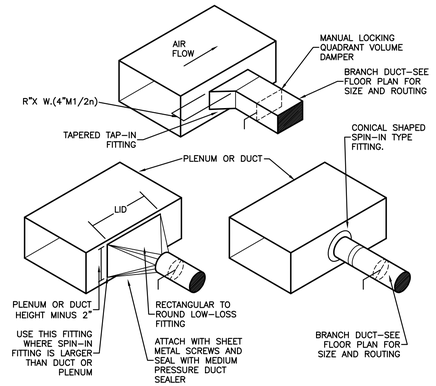
NOTE: PROVIDE DYNAMIC TYPE FIRE DAMPERS ON AIR SYSTEMS THAT DO NOT SHUT DOWN ON CALL FROM FIRE ALARM OR FIRESTAT.

DUCT DIMENSION	SLEEVE GAUGE
12" DOWN	26
13"–30"	24
31"–54"	22
55"–84"	20
85" UP	18

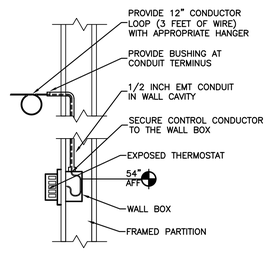


VERTICAL FIRE DAMPER

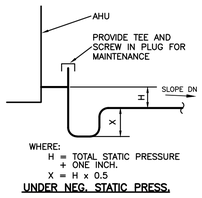
FIRE DAMPER DETAILS
NOT TO SCALE



BRANCH DUCT TAKE–OFF DETAIL
NOT TO SCALE

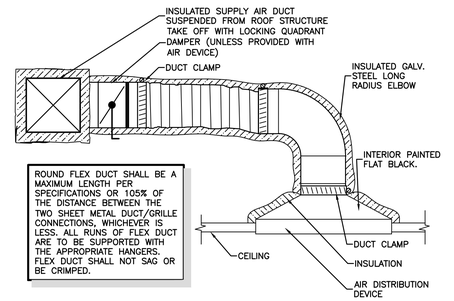


ROOM THERMOSTAT IN GYPBOARD WALL
NOT TO SCALE



WHERE:
H = TOTAL STATIC PRESSURE + ONE INCH.
X = H x 0.5
UNDER NEG. STATIC PRESS.

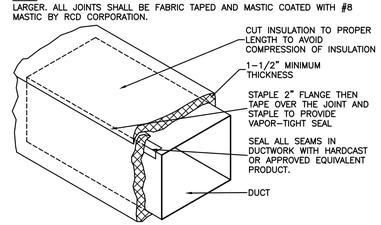
CONDENSATE DRAIN TRAP
NOT TO SCALE



NOTES:
1. REFER TO THE AIR DISTRIBUTION DEVICE SCHEDULE FOR ADDITIONAL REQUIREMENTS.
2. REFER TO SPECIFICATIONS FOR MAXIMUM FLEXIBLE DUCT LENGTH.
3. SUSPEND AIR DEVICE FROM ABOVE, DO NOT SUPPORT FROM CEILING.
4. INTERIOR OF DEVICE TO BE PAINTED FLAT BLACK.

FLEXIBLE DUCT RUN–OUTS TO AIR DEVICE
NOT TO SCALE

NOTE: SECURE INSULATION WITH WELDED STICK PINS ON DUCTWORK 24" AND LARGER. ALL JOINTS SHALL BE FABRIC TAPED AND MASTIC COATED WITH #8 MASTIC BY RCD CORPORATION.



TYPICAL DUCT WRAPPING DETAIL
NOT TO SCALE

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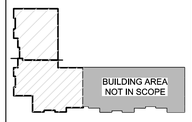

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HVAC DETAILS

M301

Drawing File: J:\15yrs\15043.001\15043m301.dwg M301
Plotted by: Harry - Nov 16, - 2015 - 3:04pm

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MOUNTING
	BRANCH CIRCUIT CONDUIT AND WIRE CONCEALED ABOVE CEILING OR BEHIND FINISHED WALL	N/A
	BRANCH CIRCUIT CONDUIT AND WIRE CONCEALED BELOW FINISHED FLOOR OR UNDERGROUND.	N/A
	RACEWAY EXPOSED ON WALL OR CEILING	N/A
LA–1,3,5 EG IG	HOMERUN TO PANELBOARD – LETTER INDICATES PANEL, NUMBER INDICATES CIRCUIT, MINIMUM 3/4" CONDUIT. NOTE: ANY HOMERUN WITHOUT FURTHER DESIGNATION INDICATES TWO #12 AWG AND #12 AWG EQUIPMENT GROUND. PC OUTLET REQUIRES SEPARATE NEUTRAL, MIN. #10 AWG. DEDICATED CIRCUIT REQUIRES SEPARATE NEUTRAL	N/A
UP DOWN	RACEWAY RISER, UP OR DOWN AS NOTED	N/A
	CONDUIT CAPPED	N/A
a	FLUORESCENT LUMINAIRE, LETTER INDICATES TYPE. 1 = CKT. NO. , a = SWITCH DESIGNATION, NL = NIGHT LIGHT	CEILING – SEE FIXTURE SCHEDULE
a	FLUORESCENT LUMINAIRE W/ EMERGENCY BATTERY PACK, LETTER INDICATES TYPE.	CEILING – SEE FIXTURE SCHEDULE
B	LED OR FLUORESCENT UNDER COUNTER LUMINAIRE, LETTER INDICATES TYPE	WALL – SEE FIXTURE SCHEDULE
C	FLUORESCENT STRIP LUMINAIRE, LETTER INDICATES TYPE.	CEILING – SEE FIXTURE SCHEDULE
D	LED OR FLUORESCENT WALL MOUNT LUMINAIRE, LETTER INDICATES TYPE	WALL – SEE FIXTURE SCHEDULE
X X	EXIT LIGHT, LETTER INDICATES TYPE SINGLE OR DUAL FACED AS INDICATED ON DRAWINGS	SEE FIXTURE SCHEDULE
VS	VACANCY SENSOR CEILING MOUNTED, DUAL TECHNOLOGY. SUBMIT SENSOR MANUFACTURER'S LAYOUT DRAWINGS FOR APPROVAL. SENSOR SWITCH CMR–PDT–10 OR APPROVED EQUIVALENT. PROVIDE WIDER RANGE DEVICES WHEN NECESSARY.	CEILING MOUNTED
PC TC	TIME CLOCK, CONTACTOR, AND PHOTOCELL FOR EXTERIOR LIGHTING CONTROLS	SEE DETAIL
$	SINGLE POLE SWITCH	M.H. 48" AFF TO TOP
$3	THREE WAY SWITCH	M.H. 48" AFF TO TOP
$4	FOUR WAY SWITCH	M.H. 48" AFF TO TOP
$M	MOTOR/HP RATED TOGGLE SWITCH SIZED PER MOTOR MANUFACTURER'S RECOMMENDATION, MINIMUM 20 AMP.	SURFACE, ADJACENT TO OR ON MOTOR
$T	TIME DELAY SWITCH (LIGHTS & EXH. FAN) PENN MODEL #AM–12 OR EQUAL (10 MIN. OFF DELAY)	M.H. 48" AFF TO TOP
$OS	AUTOMATIC WALL SWITCH WITH OCCUPANCY SENSOR	M.H. 48" AFF TO TOP
a	LIGHTING CONTROL WALL SWITCH. PUSH BUTTON MANUAL ON/OFF. LETTER INDICATES FIXTURE GROUPING BY SWITCH. SENSOR SWITCH SPODM–SA, OR APPROVED EQUAL.	M.H. 48" AFF TO TOP
a 3	THREE WAY LIGHTING CONTROL WALL SWITCH. PUSH BUTTON MANUAL ON/OFF. LETTER INDICATES FIXTURE GROUPING BY SWITCH. SENSOR SWITCH SPODM–SA–3X, OR APPROVED EQUIVALENT.	M.H. 48" AFF TO TOP
OS	WALL SWITCH OCCUPANCY SENSOR. PUSH BUTTON MANUAL ON/OFF. LETTER INDICATES FIXTURE GROUPING BY SWITCH. SENSOR SWITCH WSD–PDT–SA, OR APPROVED EQUIVALENT.	M.H. 48" AFF TO TOP
D	LED LOW VOLTAGE MANUAL ON/AUTO OFF DIMMER SWITCH (FOR USE WITH VACANCY TYPE SENSOR MANUAL ON/AUTO OFF. SENSOR SWITCH #SPODM–D–SA OR APPROVED EQUIVALENT. LED LOW VOLTAGE DIMMER SWITCH TO BE COMPATIBLE WITH LED DRIVE. (0–10V DIMMING). LETTER INDICATES FIXTURE GROUPING BY SWITCH.	M.H. 48" AFF TO TOP
	SINGLE RECEPTACLE – 120VAC	M.H. 16" AFF TO BOTTOM
WP GFI	DUPLEX RECEPTACLE – 120VAC, "WP" DENOTES WEATHERPROOF "GFI" DENOTES GROUND FAULT PROTECTION.	M.H. 16" AFF TO BOTTOM
	DUPLEX RECEPTACLE CONTROLLED VIA REMOTE SWICH–120VAC	M.H. 16" AFF TO BOTTOM
	DUPLEX RECEPTACLE – 120VAC	MOUNTED 42" AFF TO BOTTOM OR AS NOTED
	DOUBLE DUPLEX RECEPTACLE – 120VAC	M.H. 16" AFF TO BOTTOM
	DOUBLE DUPLEX RECEPTACLE – 120VAC	M.H. 42" AFF TO BOTTOM
	DUPLEX RECEPTACLE – 120VAC. COMPUTER OUTLET WITH SEPARATE NEUTRAL, MIN. #10 AWG	M.H. 16" AFF TO BOTTOM
	DOUBLE DUPLEX RECEPTACLE – 120VAC. COMPUTER OUTLET WITH SEPARATE NEUTRAL, MIN. #10 AWG	M.H. 16" AFF TO BOTTOM
H	30 AMP, 208 VOLT, SINGLE PHASE RECEPTACLE NEMA 6–30R, OR AS INDICATED.	M.H. 42" AFF TO BOTTOM
H	SPECIAL RECEPTACLE, AMPERAGE, NEMA TYPE AS INDICATED.	M.H. 42" AFF TO BOTTOM
	4"x4"x2–1/8" DEEP OUTLET BOX FOR COMMUNICATIONS WITH 1" CONDUIT TO ACCESSIBLE CEILING SPACE. CABLING AND DATA JACK BY OWNER.	M.H. 16" AFF TO BOTTOM OR AS NOTED (VERIFY MOUNTING HEIGHTS WITH OWNER PRIOR TO ROUGH–IN AT ALL COUNTER LOCATIONS)

THIS IS A STANDARD LEGEND. NOT ALL DEVICES SHOWN ARE USED IN THESE DOCUMENTS. ALL DEVICES SHOWN AS EXISTING, ARE TO REMAIN UNLESS OTHERWISE NOTED

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MOUNTING
WA	DUPLEX COMMUNICATIONS OUTLET LOCATED ABOVE CEILING FOR FUTURE WIRELESS ACCESS POINT	ABOVE CEILING
TV	TV CABLE OUTLET – PROVIDE RG6 CABLE, CONDUIT, AND CONNECTORS AS PER SPECIFICATIONS OR AS NOTED.	M.H. 16" AFF TO BOTTOM OR AS NOTED
	120/240V. PANELBOARD	M.H. 6'–0" TO TOP OR AS NOTED
	NON–FUSIBLE SAFETY SWITCH	M.H. 6'–0" TO TOP OR AS NOTED
	FUSIBLE SAFETY SWITCH	M.H. 6'–0" TO TOP OR ON EQUIPMENT
	COMBINATION MOTOR STARTER	AS NOTED
	MAGNETIC MOTOR STARTER	AS NOTED
J	JUNCTION BOX OR OUTLET BOX, 4" SQUARE BOX UNLESS OTHERWISE NOTED	AS NOTED
	MOTOR CONNECTION	AS NOTED
	ELECTRIC HEAT STRIP	IN VAV BOX INDICATED
PC	PHOTOELECTRIC CELL	AS NOTED
TC	TIME CLOCK, AS NOTED OR SPECIFIED	M.H. 54" A.F.F. TO BOTTOM OR AS NOTED
T	LOW VOLTAGE TRANSFORMER FOR PLUMBING FIXTURE POWER UNLESS OTHERWISE NOTED	MOUNT SECURELY ABOVE ACCESSIBLE CEILING SPACE
	MOMENTARY SWITCH WITH RED 2" MUSHROOM HEAD BUTTON, WITH COVER, OR AS NOTED	M.H. 48" A.F.F. TO TOP OR AS NOTED
SF	FIRE ALARM SPEAKER (VOICE SYSTEM), LETTER IN CIRCLE INDICATES TYPE: B=BELL, C=CHIME, H=HORN, S=SPEAKER	TOP 6" BELOW CEILING OR 80" A.F.F. WHICHEVER IS LOWER
F	FIRE ALARM MANUAL PULL STATION	M.H. 48" AFF TO TOP
F	FIRE ALARM STROBE LIGHT ONLY	TOP 6" BELOW CEILING OR 80" A.F.F. WHICHEVER IS LOWER
H F xx	FIRE ALARM HORN WITH STROBE, C=CHIME, B=BELL, H=HORN, S=SPEAKER xx = CANDELA RATING (ASSUME 75 CANDELA MINIMUM U.O.N.)	TOP 6" BELOW CEILING OR 80" A.F.F. WHICHEVER IS LOWER
F RI	FIRE ALARM REMOTE INDICATOR	TOP 6" BELOW CEILING OR 80" A.F.F. WHICHEVER IS LOWER
T F	FIRE ALARM TROUBLE BELL (SEE F.A. ONE LINE DIAGRAM)	AS NOTED
F FS	FLOW SWITCH (SEE F.A. ONE LINE DIAGRAM)	AS NOTED
F TS	FIRE ALARM TAMPER SWITCH	AS NOTED
F D	FIRE ALARM MAGNETIC DOOR HOLDER COORDINATE MOUNTING HEIGHT WITH DOOR SUPPLIER	WALL MOUNTED
F S	FIRE ALARM SMOKE DETECTOR	CEILING MOUNTED
F H	FIRE ALARM HEAT DETECTOR	CEILING MOUNTED
F R	FIRE ALARM RELAY TO SHUT DOWN AIR HANDLER UNITS	SEE PLANS
F RT	FIRE ALARM DUCT DETECTOR REMOTE TEST STATION	M.H. 64" AFF TO BOTTOM
F SD	FIRE ALARM SMOKE DETECTOR IN A/C DUCT	DUCT MOUNTED (SEE MECH. DWGS.)
FATC	FIRE ALARM TERMINAL CABINET	M.H. 6'–6" AFF TO TOP
FAA	FIRE ALARM ANNUNCIATOR PANEL	M.H. 4'–6" AFF TO TOP
FACP	FIRE ALARM MAIN CONTROL PANEL	M.H. 6'–6" AFF TO TOP
FAPS	SIGNAGE INDICATING "FIRE ALARM PULL STATION INSIDE"	M.H. 48" AFF TO TOP
	END OF LINE RESISTOR	SEE PLANS
M	SECURITY SYSTEM MOTION DETECTOR PROVIDE 4" SQUARE x 2.5" DEEP BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE.	CEILING MOUNTED
CR	CARD READER PROVIDE 4" SQUARE x 2.5" DEEP BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE.	M.H. 48" AFF TO TOP
DC	DOOR CONTACT FOR SECURITY SYSTEM WITH REQUIRED CABLING AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE.	MOUNT IN DOOR FRAME

THIS IS A STANDARD LEGEND. NOT ALL DEVICES SHOWN ARE USED IN THESE DOCUMENTS. ALL DEVICES SHOWN AS EXISTING, ARE TO REMAIN UNLESS OTHERWISE NOTED

ELECTRICAL LEGEND (EXISTING DEVICES)

SYMBOL	DESCRIPTION	MOUNTING
	EXISTING LOCATION FOR DUPLEX RECEPTACLE– 120VAC	M.H. 16"/24" AFF TO BOTTOM
	EXISTING LOCATION FOR DUPLEX RECEPTACLE– 120VAC	MOUNTED 42" AFF TO BOTTOM OR AS NOTED
FS	EXISTING/REINSTALLED FIRE ALARM SMOKE DETECTOR	CEILING MOUNTED
FH	EXISTING/REINSTALLED FIRE ALARM HEAT DETECTOR	CEILING MOUNTED
F	EXISTING/REINSTALLED FIRE ALARM PULL STATION	WALL MOUNTED
FH	EXISTING/REINSTALLED FIRE ALARM INDICATION APPLIANCE	WALL MOUNTED
	EXISTING PANEL LOCATION	WALL MOUNTED
	EXISTING DISCONNECT LOCATION	WALL MOUNTED
C	EXISTING CONTACTOR/CONTROLER	N/A

THIS IS A STANDARD LEGEND. NOT ALL DEVICES SHOWN ARE USED IN THESE DOCUMENTS. ALL DEVICES SHOWN AS EXISTING, ARE TO REMAIN UNLESS OTHERWISE NOTED

ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR	G, GND	GROUND
AFG	ABOVE FINISHED GRADE	GWB	GYPSUM WALL BOARD
E	EXISTING	H.D.	HAND DRYER
ETR	EXISTING TO REMAIN	INT	INTERCOM/PAGING CABINET
EWC	ELECTRIC WATER COOLER	MTG	MOUNTING
EWH	ELECTRIC WATER HEATER	MTD	MOUNTED
EG	EQUIPMENT GROUND	M.H.	MOUNTING HEIGHT
ESB	ENERGY SAVING BALLAST	N/A	NOT APPLICABLE
EXP	EXPLOSION PROOF	PROJ	PROJECTOR LOCATION
FACP	FIRE ALARM CONTROL PANEL	U.O.N.	UNLESS OTHERWISE NOTED
FATC	FIRE ALARM TERMINAL CABINET	R	REMOVE
GFI	GROUND FAULT PROTECTION	RL	RELOCATED
		WP	WEATHER PROOF

ELECTRICAL GENERAL NOTES:

(THESE NOTES APPLY TO ALL SHEETS)

1. ALL ELECTRICAL WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE FOLLOWING:
   A. FLORIDA BUILDING CODE (FBC) 5TH EDITION (2014): THIS CODE INCLUDES THE 2014 FBC BUILDING, MECHANICAL, PLUMBING, FUEL GAS AND ENERGY CONSERVATION VOLUMES. FURTHER, SEE "REFERENCED STANDARDS" IN THE FBC, BUILDING CHAPTER 35; FBC, PLUMBING CHAPTER 14; FBC, MECHANICAL CHAPTER 15; FBC, FUEL GAS CHAPTER 8, FBC, ENERGY CONSERVATION CHAPTER 5.) (EFFECTIVE JUNE 30, 2015)
   B. 5TH EDITION OF THE FLORIDA FIRE PREVENTION CODE (FFPC): (THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.) (EFFECTIVE DECEMBER 31, 2014)
   C. 2011 NATIONAL ELECTRIC CODE
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY THE EXISTING CONDITIONS TO GAIN KNOWLEDGE OF THE SCOPE OF WORK INVOLVED.
3. "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
4. IN GENERAL, THESE DRAWINGS ARE SCHEMATIC IN NATURE AND SHOULD NOT BE SCALED. IT SHALL NOT BE THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. PROVIDE ALL ITEMS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
5. ELECTRICAL INSTALLATION SHALL BE CLOSELY COORDINATED WITH ALL OTHER TRADES. REVIEW THE ENTIRE SET OF DOCUMENTS FOR COORDINATION. NO COST SHALL BE ASSOCIATED WITH ILL–TIMED INSTALLATION INCLUDING ANY REPAIRS OR REPLACEMENTS.
6. ALL CONDUITS AND BOXES SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL CONDUIT RUNS ARE SCHEMATIC IN NATURE. EXACT ROUTING TO BE DETERMINED IN THE FIELD UNLESS OTHERWISE NOTED.
7. APPLY A BITUMASTIC COATING FOR ALL CONDUITS PENETRATING FLOOR SLABS FROM BELOW GRADE.
8. PROVIDE ALL REQUIRED PULL BOXES, JUNCTION BOXES, ETC. FOR A COMPLETE INSTALLATION.
9. PATCH, REPAIR AND REPAINT ALL WALLS THAT HAVE BEEN DAMAGED DUE TO ELECTRICAL ROUGH–IN. REMOVE ANY UNUSED CONDUIT AND WIRE.
10. PROVIDE FIRE–STOPPING AT ALL FIRE WALL PENETRATIONS. USE A U.L. APPROVED SYSTEM LISTED FOR THE ASSOCIATED INSTALLATION.
11. ALL CONDUCTORS SHALL BE STRANDED COPPER, THHN/THWN, MINIMUM #12 AWG. ALL CONDUCTORS SHALL BE IN CONDUIT. FLEXIBLE CONDUIT SHALL BE LIMITED TO A MAXIMUM OF 6'–0" IN LENGTH.
12. MC CABLE OR OTHER PREMANUFACTURED CABLING SHALL NOT BE USED UNLESS APPROVED BY THE OWNER AND ENGINEER.
13. ALL CIRCUITS SHALL CONTAIN A SEPARATE, GREEN, COPPER GROUNDING CONDUCTOR.
14. ALL RECEPTACLES SHALL HAVE A GROUND TERMINAL.
15. WHEN REUSING OR EXTENDING EXISTING CIRCUITS, VERIFY ALL CIRCUIT NUMBERS AND VERIFY ANY EXISTING LOAD. CIRCUITS MAY BE PICKED UP AT AN EXISTING JUNCTION BOX IF AVAILABLE RATHER THAN PROVIDING A SEPARATE HOMERUN TO A PANEL.
16. RECESSED LIGHTING FIXTURES SHALL BE SUPPORTED FROM THE STRUCTURE AT (4) POINTS. DO NOT SUPPORT FIXTURES FROM THE CEILING GRID, MECHANICAL PIPING, DUCTWORK, CONDUIT OR OTHER NON–STRUCTURAL BUILDING MEMBERS. PROVIDE SUPPLEMENTAL STEEL AS REQUIRED FOR INSTALLATION.
17. THE COLOR OF ALL RECEPTACLES, TOGGLE SWITCHES AND COVERPLATES SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ORDERING.
18. PANELBOARDS SHALL BE ACCURATELY LABELED TO IDENTIFY FINAL CIRCUIT NUMBERS UTILIZED, THEIR LOAD AND LOCATION.
19. BRANCH CIRCUIT SHALL NOT BE RUN UNDERGROUND UNLESS SPECIFIED OR APPROVED BY THE OWNER AND ENGINEER. ROUTE CONCEALED IN WALL AND ABOVE CEILINGS. DISTRIBUTION FEEDERS FROM THE MAIN SWITCHBOARD MAY BE RUN UNDERGROUND.
20. PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS AND STRUCTURAL SLABS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, PRIOR TO SUBMITTING BID, LOCATIONS OF ALL SUCH FIRE RATED PARTITIONS, WALL AND STRUCTURAL SLABS.
21. PROVIDE HANDLE TIES FOR 2 OR MORE SINGLE POLE WITH SHARED NEUTRALS TO COMPLY WITH NEC 210.4 (B)
22. SEE SPECIFICATIONS

ELECTRICAL DRAWING INDEX

E001	ELECTRICAL LEGEND, AND GENERAL NOTES
E002	LUMINAIRE SCHEDULE AND CUT SHEETS
E101	LIGHTING PLAN – SR/HR OFFICES
E102	LIGHTING PLAN – DISTRICT OFFICES
E201	POWER & DATA PLAN – SR/HR OFFICES
E202	POWER & DATA PLAN – DISTRICT OFFICES
E301	FIRE ALARM & SYSTEMS PLAN – SR/HR OFFICES
E302	FIRE ALARM & SYSTEMS PLAN – DISTRICT OFFICES
E401	MECHANICAL EQUIPMENT PLAN – SR/HR OFFICES
E402	MECHANICAL EQUIPMENT PLAN – DISTRICT OFFICES
E501	ELECTRICAL RISER DIAGRAM
E601	ELECTRICAL PANEL SCHEDULES
E701	ELECTRICAL DETAILS

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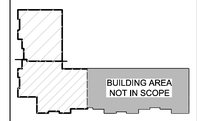
Florida Engineering Business Number 6093

NOT FOR CONSTRUCTION

ROBERT C. ANSTON, P.E. 40858

TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE 2014 FLORIDA BUILDING CODE



HILLSBOROUGH COUNTY
SHERIFF'S DEPARTMENT
P.O BOX 3371

HILLSBOROUGH COUNTY SHERIFF'S
DEPARTMENT RENOVATIONS
PINEBROOK BUSINESS PARK

PROJECT #: 1505-00	
DISTRIBUTION	DATE
CD CHECK SET	10/15/15
100% CONST. DOCS	11/16/15

ELECTRICAL LEGEND, AND GENERAL NOTES

E001

N

0' 4' 8' 16'

ELECTRICAL LEGEND
NOT TO SCALE

A1

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Plotted by: Andrew Nov 16, 2015 - 3:21pm

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	VOLTS	LAMP	BALLAST	MOUNTING
A	2'x4' RECESSED STATIC FLUORESCENT LUMINAIRE REGRESSED ALUMINUM DOOR, .125" LENS, SPECIFICATION GRADE. LITHONIA 2SP8G-232-RW-A12125-MVOLT-GLR, OR APPROVED EQUIVALENT	120	2-48" F32T8 & 4100K	PROGRAMMED RAPID START BALLASTS, SEE SPECIFICATIONS	RECESSED CEILING GRID
A1	SAME AS TYPE 'A' EXCEPT EQUIPPED WITH EMERGENCY BATTERY BACKUP. LITHONIA 2SP8G-232-RW-A12125-MVOLT-GLR-EL14, OR APPROVED EQUIVALENT	120	2-48" F32T8 & 4100K, 2-LAMP BATTERY PACK 1400 LUMENS	PROGRAMMED RAPID START BALLASTS, SEE SPECIFICATIONS	RECESSED CEILING GRID
B	FLUORESCENT UNDER CABINET LUMINAIRE. LITHONIA UC-42E-120, OR APPROVED EQUIVALENT	120	2-13W T5	INSTANT START BALLAST	UNDER CABINET
C	6" OPEN REFLECTOR, LED DOWNLIGHT WITH WHITE TRIM. LITHONIA LDN6-40/20-LO6-WR-120-SF OR APPROVED EQUIVALENT	120	LED 2000 LUMENS, 4000K	LED DRIVER	RECESSED
X	EXIT LIGHT , SINGLE OR TWIN FACED, UNIVERSAL ARROWS, UNIVERSAL MOUNTING, LED SOURCE, WHITE THERMOPLASTIC FACE WITH RED LETTERS, DUAL VOLTAGE. LITHONIA CAT. #LQM-S-W-3-R-120/277-ELN OR APPROVED EQUIVALENT	120	LED	LED DRIVER	VARIES, SEE SPECS AND PLANS

NOTE:
ALL LUMINAIRES THAT ARE EQUIPPED WITH AN EMERGENCY BATTERY PACK SHALL HAVE TEST BUTTONS AND INDICATOR LIGHTS VISIBLE AND ACCESSIBLE FROM A FLOOR STANDING POSITION.

FIXTURE – 'A' & 'A1'

LITHONIA LIGHTING®

Catalog Number | Notes | Type

FEATURES & SPECIFICATIONS

INTENDED USE
Specification premium, high performance, static T8 luminaires provide general illumination for recessed applications; ideal for restricted plenum spaces.

ATTRIBUTES
Designed exclusively for use with T8 lamps, electronic ballasts and sockets.

CONSTRUCTION
Smooth hemmed sides and smooth, inward formed end flanges for safe handling. Lighter weight fixture allows safe, easy installation.
Standard steel door frame has superior structural integrity with premium extruded appearance and precision flush mitered corners. Steel door allows easy lens replacement without frame disassembly (for lenses up to .156" thick). Powder-painted, steel latches provide easy, secure door closure.
Superior mechanical light seal requires no foam gasketing. Integral T-bar clips secure fixture to T-bar system. Housing formed from cold-rolled steel. Acrylic shielding material 100% UV stabilized. No asbestos is used in this product.
US PATENTS: 6,210,025; 6,231,213; 6,213,625; 2,288,471.

FINISH
Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts finished with highly reflective matte white enamel.

OPTICAL
A12 lens features reverse apex technology for superior lamp obscuration and improved visual comfort.

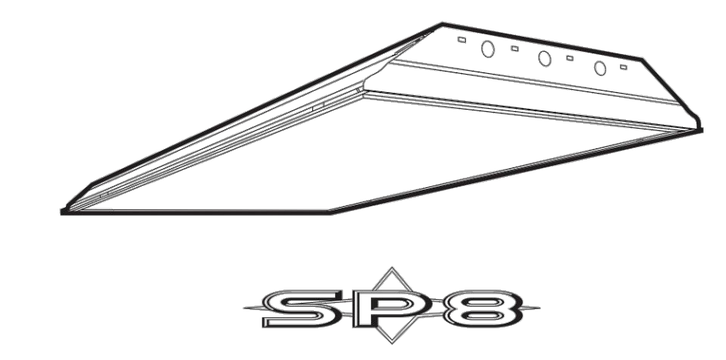
ELECTRICAL SYSTEM
Standard ballast is electronic, thermally protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA certified ballast, universal voltage and sound rated A.
Luminaire is suitable for damp locations. AWM, TFN or THHN wire used throughout, rated for required temperatures.

LISTING
Standard: UL. Optional: Canada — CSA or cUL; Mexico — NOM.

WARRANTY
Guaranteed for one year against mechanical defects in manufacture.
Specifications subject to change without notice.

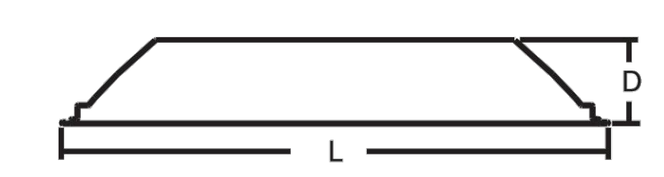
Specification Premium T8 Troffer

SP8 2'x4'



2, 3, 4 or 6 Lamps T8

Specifications
Length: 48 (1218)
Width: 24 (609)
Depth: 3-11/16 (94)
Weight: 22 lbs (9.9 kg)



All dimensions are inches (millimeters).

ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold).**
Example: 2SP8 G 3 32 A12 MVOLT 1/3 GEB10IS

2SP8

Series	Trim type	Number of lamps	Lamp type	Door frame	Diffuser type	Voltage	Options[1]
2SP8 2' wide	**G Grid**; **F Overlapping flanged**	**2**, **3**, **4**, 6; Not included.	**32 32W T8 (48")**	(blank) **Flush steel, white**; FN Flush aluminum, natural; FM Flush aluminum, matte black; **FW Flush aluminum, white**; RN Regressed aluminum, natural; RM Regressed aluminum, matte black; **RW Regressed aluminum, white**	**A12 #12 pattern acrylic, reverse apex**; **A12125 #12 pattern acrylic, .125" thick**; **RA125 #12 pattern acrylic, .125" thick, reverse apex**; **A19 #19 pattern acrylic, .156" thick**; A15 #15 pattern acrylic, .2" thick; PC1S 1/2" x 1/2" x 1/2" plastic cube louver, silver; PC2S 1-1/2" x 1-1/2" x 1" plastic cube louver, silver w/ flange; PC3S 3/4" x 3/4" x 1/2" plastic cube louver, silver	120; 277; 347; **MVOLT**; Others available.	**1/4 One 4-lamp ballast**; **1/3 One 3-lamp ballast**; **GEB10IS Electronic ballast, ≤10% THD, instant start**; **GEB10RS Electronic ballast, ≤10% THD, rapid start**; **EL Emergency battery pack (nominal 300 lumens)**; **EL14 Emergency battery pack (nominal 1400 lumens)**; GLR Internal fast-blow fuse; GMF Internal slow-blow fuse; LST Tandem-wired fixture pairs (shared ballasts); **PWS1836 6' prewire, 3/8" dia., 18-gauge, 1 circuit**; **PWS1846 6' prewire, 3/8" dia., 18-gauge, 2 circuits**; **LP735 Lamped, 700-series, 3500K**; LP__ Lamped; specify lamp type and color; **JP Palletized and stretch-wrapped without individual cartons**; **CSA CSA Certified**; **NOM NOM Certified**

NOTE:
1 MVOLT standard for 120-277V applications, 50-60 hz operation. Some options require voltage specified.

FIXTURE – 'B'

LITHONIA LIGHTING®

Catalog Number | Notes | Type

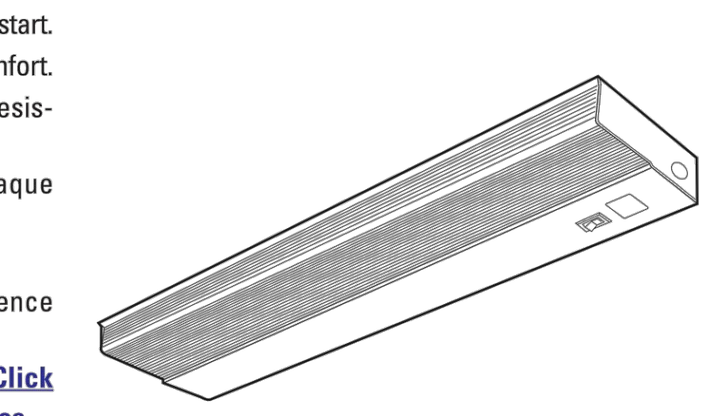
FEATURES

- Trim, low-profile design, only 1-3/16" deep.
- Flattened knockouts for cleaner appearance.
- Snap-fit channel cover attachment. No tools required for wireway access.
- Hinged, removable channel cover allows hands-free wiring and quick installation.
- Factory-installed starters on all preheat models.
- Romex/BXR conduit connector provided with each fixture.
- Optional instant-on electronic start magnetic ballast for flicker-free lamp start.
- Low-brightness, linear prismatic diffuser provides improved visual comfort.
- 15% DR acrylic and snap-fit diffuser design for improved shatter-resistant and positive attachment.
- Optional task diffuser with clear linear prismatic bottom and opaque front for maximum illumination without direct edge glare.
- Five fixture lengths available.
- Available with factory-installed lamp, switch, cordset and convenience outlet options.
- **Certain airborne contaminants can diminish integrity of acrylic.** Click here for Acrylic Environmental Compatibility table for suitable uses.

Undercabinet Light

UC

1" Wrap-Front Lens



SPECIFICATIONS

BALLAST — Normal power factor reactor type ballast standard. Others available (See ordering information).
WIRING & ELECTRICAL — Fixture conforms to UL 1570 and is suitable for damp locations. AWM, TFN or THHN wire used throughout, rated for required temperatures.
MATERIALS — Metal parts precision roll-formed from 20 gauge cold rolled steel.
FINISH — Five-stage iron-phosphate pre-treatment ensures superior paint adhesion and rust resistance. Painted parts finished with polyester powder paint.
LISTING — UL listed and labeled. Listed and labeled to comply with Canadian and Mexican Standards.
NOTE: Specifications subject to change without notice.

ORDERING INFORMATION

Example: **UC 33E OP 120**

UC

Series	Fixture length/ballast type	Diffuser	Voltage	Options
UC Undercabinet light	12E (1) 8W T5, instant start electronic; 21E (1) 13W T5, instant start electronic; 24E (2) 8W T5, instant start electronic; 33E (1) 8W and 13W T5, instant start electronic; 42E (2) 13W T5, instant start electronic	(blank) Standard, milk-white, DR acrylic; OP Opaque-front, clear bottom DR acrylic	120	GLR Internal fast-blow fuse; GMF Internal slow-blow fuse; CSW 6-foot, 3-wire, grounded cordset, right end; LPWW Warm white 3000K T5 lamp(s); factory supplied; PAF White powder paint finish after fabrication; CO Grounded convenience outlet. Installed, bottom right, 120V only; SWR Rocker switch, installed bottom right, 120V only; CSA Listed and labeled to comply with Canadian Standards; NOM Listed and labeled to comply with Mexican Standards

FIXTURE – 'C'

LITHONIA LIGHTING®

Catalog Number | Notes | Type

FEATURES & SPECIFICATIONS

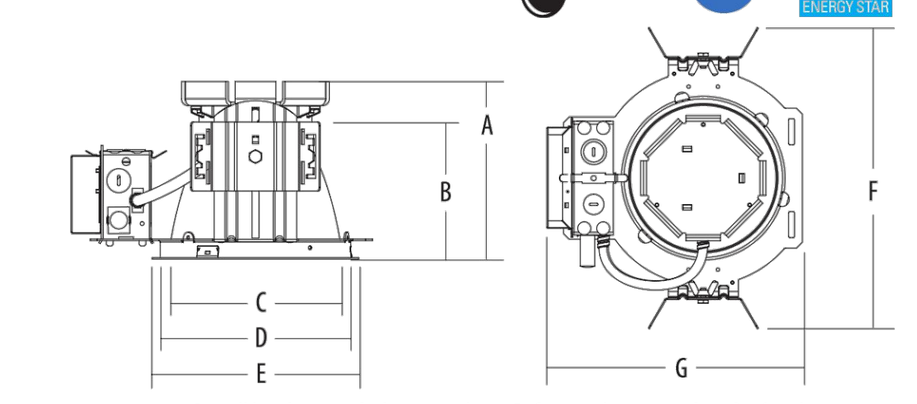
INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.
CONSTRUCTION — 16-gauge galvanized steel mounting/plaster frame with trim clips to mount open conical shape reflector.
Vertically adjustable mounting brackets that use 16-gauge flat bar hangers (included), 1/2" conduit or C channel T-bar fasteners. Provides 3-3/4" total adjustment.
Post installation adjustment possible from above or below the ceiling.
Galvanized steel junction box with bottom-hinged access covers and spring latches. Two combination 1/2"-3/4" and three 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out) No. 12 AWG conductors, rated for 90°C.
Secondary housing adjustment system for precise, final ceiling-to-flange alignment.
Maximum 1-1/2" ceiling thickness.
OPTICS — LED light source with diffused lens, recessed in a deep reflector with a 55-degree cutoff. Aluminum full reflectors are optically designed to maximize lumen output and to provide superior glare control.
Anodized trim colors for open and wallwash reflectors are available in clear, pewter, wheat or gold. White polyester powder coat also available.
Minimum CRI of 80.
ELECTRICAL — High-efficiency, eldoLED 0-10V dimming driver mounted to the junction box, dims luminaire to 10% of its light output. 1% dimming option available (see EZ1 ordering options below).
Dimming fixture requires two (2) additional low-voltage wires to be pulled.
For compatible dimmers and dimming range, refer to Dimmer Compatibility Chart on page 4.
The system maintains 70% lumen output for more than 50,000 hours.
LISTINGS — CSA certified to US and Canadian safety standards. Open downlight (LO6): Wet location listed. Wallwash downlight (LW6): Rated for damp and dry locations only. ENERGY STAR® certified.
WARRANTY — 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx
Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Note: Specifications subject to change without notice.

LDN6



LDN6 35/15 LO6AR 120

6" OPEN and WALLWASH LED
Non-IC
New Construction Downlight



Overall height varies by lumen package. Reference dimension chart for details.

Maximum Overall Dimensions – All dimensions are inches (centimeters) unless otherwise indicated.

Lumen package	(A) Height	(B) Frame height	(C) Aperture	(D) Ceiling opening	(E) Outside diameter	(F) Width	(G) Length
600 lm	6-7/16 (16.4)	5-3/4 (14.6)	6-15/16 (17.6)	7-1/8 (18.1)	7-1/2 (19.1)	12-15/16 (32.8)	10-15/16 (27.8)
1000 lm							
1500 lm							
2000 lm	7-13/16 (19.9)						

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.
Example: LDN6 35/15 LO6AR 120

LDN6

Series	Color temperature	Lumens[1,2]	Reflector	Trim color	Finish	Voltage	Options
LDN6	27/ 2700 K; 30/ 3000 K; 35/ 3500 K; 40/ 4000 K	06 600 lumens; 10 1000 lumens; 15 1500 lumens; 20 2000 lumens	LO6 Open downlight; LW6 Wallwash downlight[3]	AR Clear; PR Pewter; WTR Wheat; GR Gold; WR White[4]; BR Black[4]	(blank) Semi-specular; LD Matte-diffuse; LS Specular	120; 277; 347[5]	EL Emergency battery pack with integral test switch[6]; ELR Emergency battery pack with remote test switch[6]; SF Single fuse; TRW White painted flange[7]; TRBL Black painted flange; NPS80EZ nLight® dimming pack controls 0-10V eldoLED drivers. Refer to TN-633.; NPS80EZER nLight® dimming pack controls 0-10V eldoLED drivers. ER controls fixtures on emergency circuit. Refer to TN-633.[8]; RRL__ RELOC®-ready luminaire connectors enables a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature.; EZ1 eldoLED dims to 1%; CP Chicago plenum[5,9]

Accessories: *Order as separate catalog number.*

EAC ISSM 375	Compact interruptible emergency AC power system
EAC ISSM 125	Compact interruptible emergency AC power system
GRA68 JZ	Oversized trim ring with 8" outside diameter[10]
SCA6	Sloped ceiling adapter. Refer to TECH-SCA for more options.

Notes
1 Approximate lumen output.
2 Overall height varies by lumen package. Reference dimension chart on page 1.
3 Rated for damp and dry locations only.
4 Not available with finishes.
5 Not available with emergency options.
6 For dimensional changes, refer to chart on page 4. Not available with CP option.
7 Not available with WR (white trim color).
8 For use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
9 277 volt CP products require marked spacing. Install with minimal spacing between: (a) Center-to-center of adjacent luminaires: 2 ft.; (b) Top of luminaire to overhead building member: 3 in.; (c) Luminaire center to side of building member: 1 ft.
10 Refer to TECH-GOOF RINGS for more options.

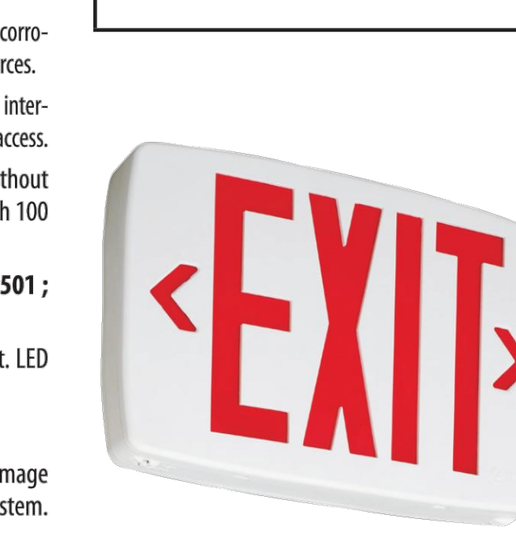
FIXTURE – 'X'

LITHONIA LIGHTING®

Catalog Number | Notes | Type

FEATURES & SPECIFICATIONS

INTENDED USE — Ideal for applications requiring attractive, quick-installation exit signs and low energy consumption.
CONSTRUCTION — Engineering-grade thermoplastic housing is impact-resistant, scratch-resistant, and corrosion-proof. UL94V-0 flame rating. UV-stable resin resists discoloration from natural and man-made light sources.
Rugged unibody housing snaps together with no additional mechanical fasteners. Faceplate and back cover are interchangeable on housing. Positive snap-fit tabs hold faceplate securely, yet easily removable for lamp compartment access.
Universal directional Chevron inserts are easily removed and reinserted. Uniform illumination without shadows or hot spots. Reinforced, impact-resistant color panels. Letters 6" high with 3/4" stroke, with 100 ft. viewing distance rating, based upon UL924 standards.
U.S. Patent No. 5,526,251; 5,611,163; 5,739,639; 5,954,423; 5,988,825; 6,152,581; D383,501 ; D495,751 and 6,502,044. Other patents pending.
OPTICS — LEDs mounted on printed circuit boards. Low energy consumption – less than one watt. LED lamp operates in normal (AC input) and emergency (DC input) modes.
The typical life of the exit LED lamp is 10 years.
ELECTRICAL — Low-voltage disconnect prevents excessively deep discharge that can permanently damage battery. Conveniently located test switch and LED provide visual and manual means of monitoring system.
Constant-current series charger minimizes energy consumption and provides low operating costs. Printed circuit boards are 100% quality tested during manufacturing. Current-limiting charger circuitry protects printed circuit boards from shorts.
AC/LV reset (line latch) allows battery connection before AC power is applied and aids in preventing battery damage from deep discharge.
Crystal oscillator timing system with watchdog protection for precision accuracy.
Brownout protection is automatically switched to emergency mode when supply voltage drops below 80% of nominal.
Battery: Sealed, maintenance-free nickel-cadmium battery delivers 90-minutes capacity to emergency lamps. Two-state constant-current charge maximizes battery life and automatically recharges after battery discharge.
Diagnostics: Single-point microcomputer control for all electronic features.
Single multi-chromatic LED indicator to display two-state charging, test activation and three-state diagnostic status.
Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection. Self-diagnostic testing for five minutes every 30 days and 30 minutes every six months and 90 mins annually with WRS.
Diagnostic evaluation of LED light source, AC to DC transfer, charging and battery condition. Continuously monitors AC functionality.
INSTALLATION — Universal (top-, end-, or back-) mounting. Easily removed mounting knockouts. J-box pattern on back panel. Housing snaps to canopy with four positive-locking tabs. Cam-locking pin tightly secures housing to canopy.
Ships standard with additional face plate.
LISTINGS — UL damp location listed 50°-104°F (10°-40°C) standard. NOM Certified (see options). Meets UL924, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards. NEMA Premium certified.
Meets all applicable FCC requirements.

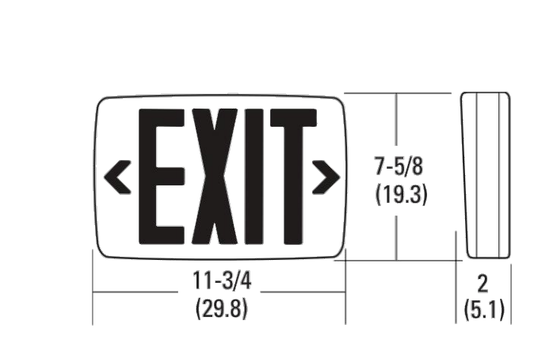


QUANTUM®
Thermoplastic Exits

LQM

LED LAMPS

Specifications
Length: 11-3/4 (29.8)
Depth: 2 (5.1)
Height: 7-5/8 (19.3)
Weight: 2.6 lbs (1.2 kgs)



All dimensions are inches (centimeters) unless otherwise specified.

WARRANTY — 5-year limited warranty. (Battery is prorated.) Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx
Actual performance may differ as a result of end-user environment and application.
Note: Specifications subject to change without notice.

ORDERING INFORMATION For shortest lead times, configure product using **bolded options.**
Example: LQM S W 3 R 120/277 EL N

LQM

Family	Face type	Housing color	Number of faces	Letter color	Input voltage[2]	Operation	Options
LQM	**S** Stencil; P Panel[1]	**(blank)** Black; **W** White	**3** Single face with extra faceplate and color panel	**R** Red; **G** Green	**120/277** Dual voltage	**(blank)** AC only; **X2** Primary and secondary AC inputs provided[3]; **EL N** Nickel cadmium battery	**(blank)** None; NOM NOM certified for Mexico[4]; SD Self-diagnostics[5]; SDFIFA Self-diagnostics, fire alarm flashing interface and flashing emergency operation and intermittent audible alarm (one flash/one second)[5]

Accessories: Order as separate item.

ELA WG1	Back-mount wireguard[6]	ELA WGEXE	End-mount wireguard[6]
ELA WGEXT	Top-mount wireguard[6]	ELA LQMUS12	12" stem kit[7]

Notes
1 Only available in custom signage. See spec sheet, Custom-Signage.
2 Some special voltages available. Consult factory.
3 Must specify input voltage 120 or 277. Not available with other options.
4 Available with stencil or panel faces in white housing.
5 Only available with EL N operation.
6 See spec sheet ELA-WG.
7 See spec sheet ELA-Stemkits.

CUT SHEETS FOR REFERENCE ONLY

N

NOT TO SCALE A1

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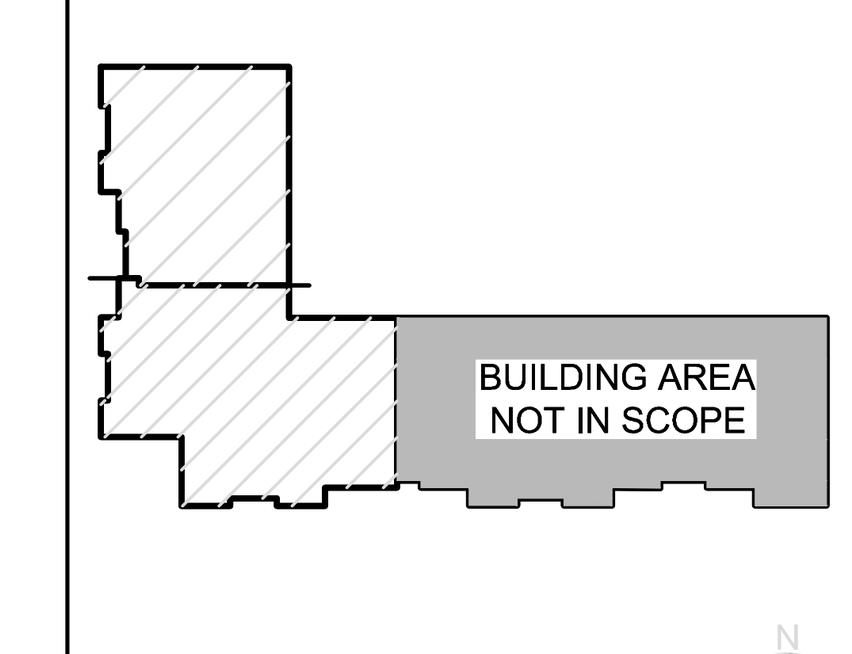

HILLSBOROUGH COUNTY
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P.O BOX 3371

HILLSBOROUGH COUNTY SHERIFF'S
DEPARTMENT RENOVATIONS
PINEBROOK BUSINESS PARK

PROJECT #: 1505-00

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100% CONST. DOCS	11/16/15

LUMINAIRE SCHEDULE AND CUTSHEETS

E002

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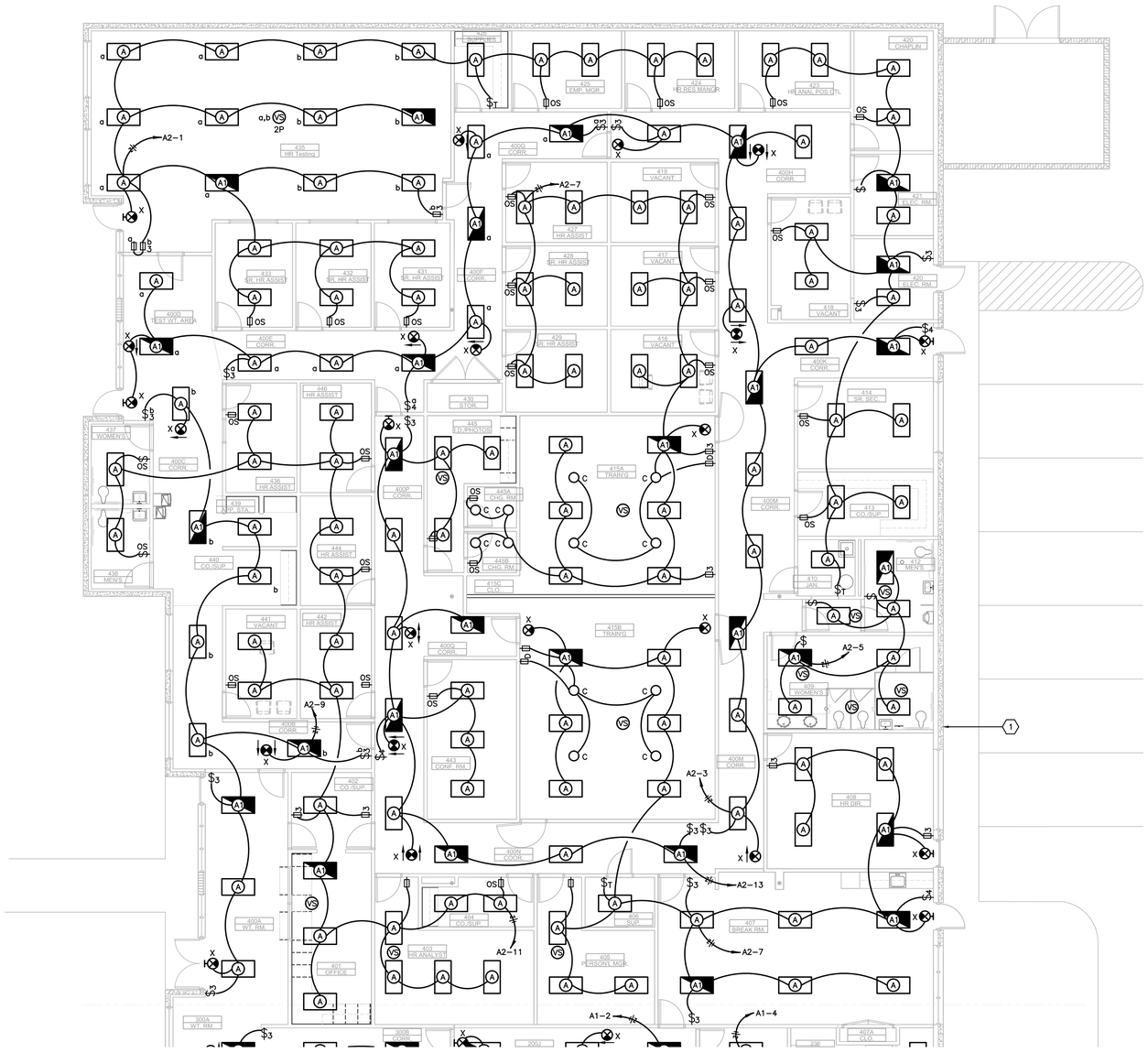
Plotted by: Andrew Nov 16, 2015 – 3:21pm



GENERAL NOTES:

1. FIXTURES WITH EMERGENCY BATTERY PACKS SHALL BE SWITCHED AFTER THE EMERGENCY PACK SUCH THAT THE BATTERY PACK CONTINUOUSLY SEES NORMAL POWER. THE EMERGENCY BATTERY BACK-UP SHALL BE UNSWITCHED AND SHALL AUTOMATICALLY ILLUMINATE THE FIXTURE IN THE EVENT OF LOSS OF NORMAL POWER. SEE TYPICAL BATTERY BALLAST WIRING DIAGRAM, SHEET E601. TYPICAL FOR ALL FIXTURES HALF SHADED.
2. EXIT LIGHTS SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUIT BUT SHALL NOT BE SWITCHED.

DRAWING NOTES:

1. ALL EXTERIOR LIGHTING SHALL REMAIN AS-IS. MAINTAIN CIRCUIT CONTINUITY AND CONTROLS.

N

0' 4' 8' 16'

LIGHTING PLAN 1/8" = 1'-0" | A1

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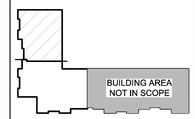

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LIGHTING PLAN

E101

Drawing File: i:\15xxx\15042.001\15042e10v.dwg E101
Plotted by: Andrew Nov 16, 2015 - 3:21pm

GENERAL NOTES:

1. FIXTURES WITH EMERGENCY BATTERY PACKS SHALL BE SWITCHED AFTER THE EMERGENCY PACK SUCH THAT THE BATTERY PACK CONTINUOUSLY SEES NORMAL POWER. THE EMERGENCY BATTERY BACK-UP SHALL BE UNSWITCHED AND SHALL AUTOMATICALLY ILLUMINATE THE FIXTURE IN THE EVENT OF LOSS OF NORMAL POWER. SEE TYPICAL BATTERY BALLAST WIRING DIAGRAM, SHEET E601. TYPICAL FOR ALL FIXTURES HALF SHADED.
2. EXIT LIGHTS SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUIT BUT SHALL NOT BE SWITCHED.

DRAWING NOTES:

1. ALL EXTERIOR LIGHTING SHALL REMAIN AS-IS. MAINTAIN CIRCUIT CONTINUITY AND CONTROLS.

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BUILDING AREA NOT IN SCOPE

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LIGHTING PLAN

E102

LIGHTING PLAN 1/8" = 1'-0" | A1

0' 4' 8' 16'

N

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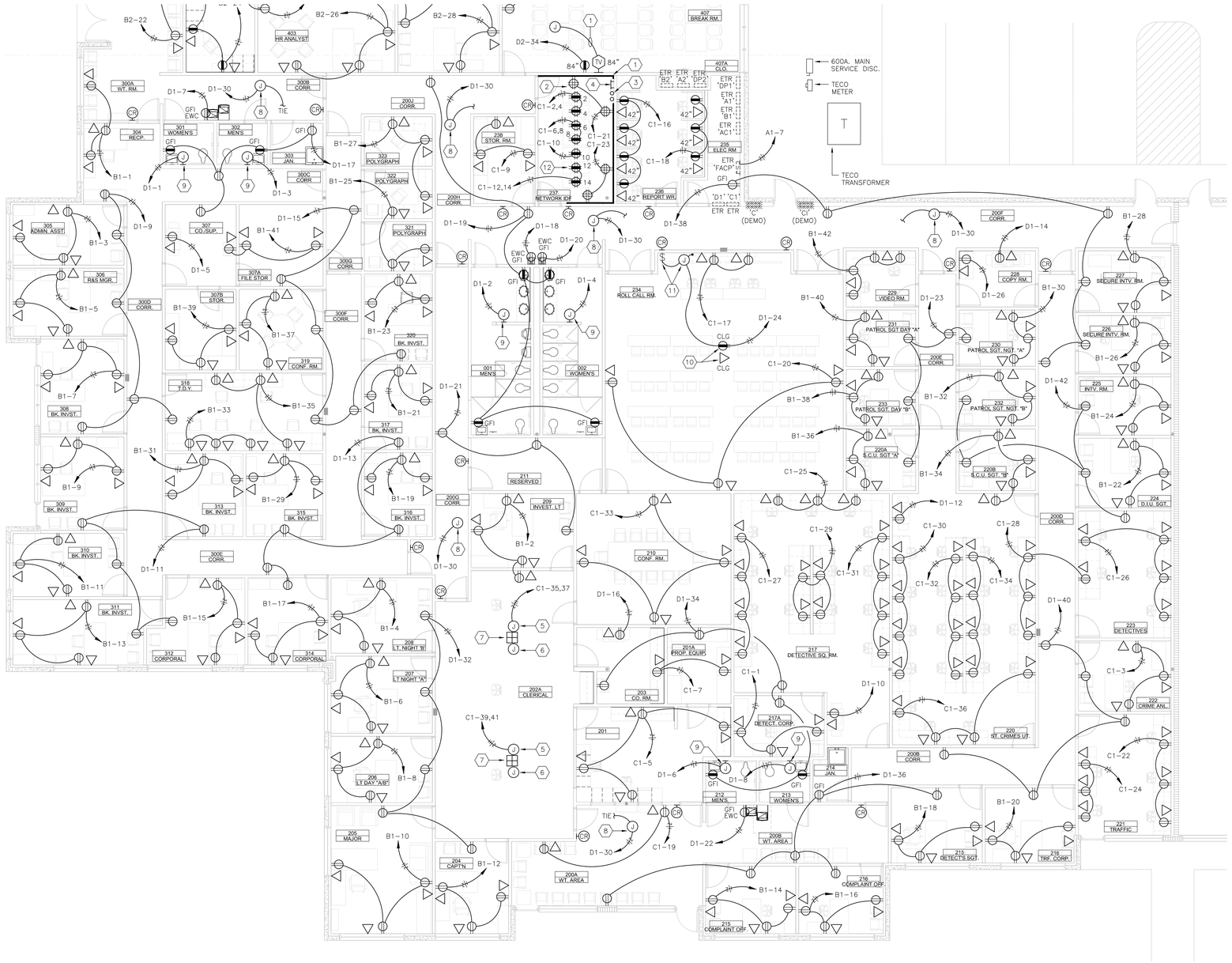
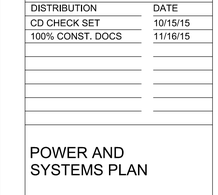


DRAWING NOTES:

1. PROVIDE 3/4" PLYWOOD BACKBOARD PAINTED ON ALL (6) SIDES WITH FIRE RETARDANT PAINT. MOUNT AS SHOWN ALONG LENGTH OF DATA ROOM WALL. INSTALL AT 8" A.F.F. TO CEILING.
2. INSTALL RECEPTACLES ON WALL BELOW PLYWOOD BACKBOARD AT 6" A.F.F. TO CENTER. TYPICAL OF 4.
3. STUB (2) 2" CONDUITS WITH INSULATING BUSHINGS INTO ROOM AT 6" BELOW CEILING AND ROUTE TO EXISTING BUILDING TELEPHONE SERVICE.
4. PROVIDE COPPER GROUND BAR. MOUNT BELOW PLYWOOD BACKBOARD.
5. PROVIDE POWER POLE AND 4"x4" JUNCTION BOX ABOVE CEILING FOR REQUIRED POWER CIRCUITS TO SYSTEMS FURNITURE. PROVIDE FLEXIBLE CONDUIT WHIPS AS NECESSARY FOR CONNECTION TO SYSTEMS FURNITURE. COORDINATE WITH OWNER'S FURNITURE REPRESENTATIVE FOR REQUIREMENTS. PROVIDE #10 AWG NEUTRALS.
6. PROVIDE POWER POLE AND 4"x4" JUNCTION BOX ABOVE CEILING FOR REQUIRED VOICE/DATA CIRCUITS TO SYSTEMS FURNITURE. CABLING WILL BE PROVIDED BY OWNER. PROVIDE FLEXIBLE CONDUIT WHIPS AS NECESSARY FOR CONNECTION TO SYSTEMS FURNITURE. COORDINATE WITH OWNER'S FURNITURE REPRESENTATIVE FOR REQUIREMENTS.
7. COORDINATE EXACT LOCATION OF POWER POLES WITH LIGHTING LAYOUT.
8. PROVIDE JUNCTION BOX ABOVE CEILING FOR POWER CONNECTION TO CARD READER DOOR CONTROLLERS. CARD READERS TO BE PROVIDED AND INSTALLED BY OTHERS.
9. PROVIDE JUNCTION BOX AND CONNECTION TO OWNER SUPPLIED HAND DRYER. FIELD VERIFY EXACT LOCATION WITH ARCHITECT. COORDINATE ELECTRICAL REQUIREMENTS WITH ACTUAL EQUIPMENT SUPPLIED PRIOR TO INSTALLATION.
10. PROVIDE RECEPTACLE AND DATA OUTLET IN CEILING AND CONNECTION TO CEILING MOUNTED PROJECTOR. SEE PROJECTOR CEILING PLATE DETAIL ON SHEET E701. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION.
11. PROVIDE JUNCTION BOX AND CONNECTION CEILING MOUNTED PROJECTOR SCREEN. CONTROL VIA CONTRACTOR PROVIDED MOMENTARY ON-OFF SWITCH AS SHOWN. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
12. MOUNT QUAD RECEPTACLE AT TOP OF RACKS OR ON OWNER PROVIDED LADDER TRAY. COORDINATE EXACT LOCATIONS AND INSTALLATION WITH OWNER. TYPICAL OF 7.



0' 4' 8' 16'

POWER AND SYSTEMS PLAN
1/8" = 1'-0"

A4

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POWER AND SYSTEMS PLAN

E202

Drawing File: I:\15xx\15042.001\15042p20e.dwg E202
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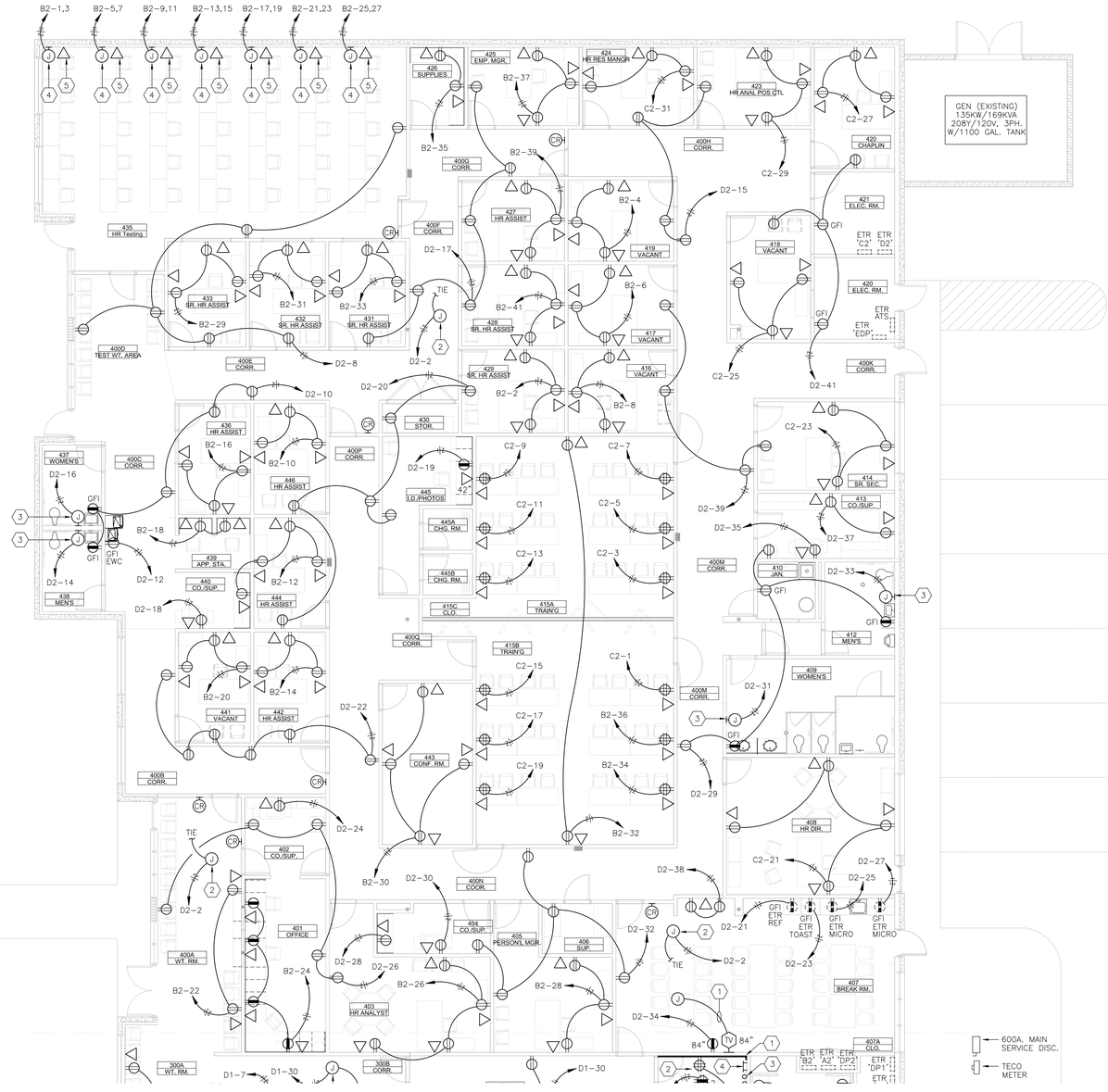

DRAWING NOTES:

1. PROVIDE JUNCTION BOX AND EXTEND EXISTING COAX CABLING AS REQUIRED TO RELOCATE EXISTING TV OUTLET TO NEW LOCATION SHOWN.
2. PROVIDE JUNCTION BOX ABOVE CEILING FOR POWER CONNECTION TO CARD READER DOOR CONTROLLERS. CARD READERS TO BE INSTALLED BY OTHERS.
3. PROVIDE JUNCTION BOX FOR CONNECTION TO OWNER SUPPLIED HAND DRYER. FIELD VERIFY EXACT LOCATION WITH ARCHITECT. COORDINATE ELECTRICAL REQUIREMENTS WITH ACTUAL EQUIPMENT SUPPLIED PRIOR TO INSTALLATION.
4. PROVIDE JUNCTION BOX FOR POWER CONNECTION TO FUTURE OWNER SUPPLIED FURNITURE. ROUTE 2 #12, 1 #12 NEUTRAL & 1 #12 E.G. – 3/4" CONDUIT TO CIRCUITS INDICATED AND COIL 6 FOOT OF POWER CONDUCTORS INSIDE JUNCTION BOX FOR FUTURE CONNECTION. PROVIDE COVERPLATE AND LABEL TO IDENTIFY FEEDING CIRCUITS.
5. PROVIDE 1–1/4" CONDUIT STUBBED UP INTO CEILING SPACE WITH DATA OUTLET.

N

0' 4' 8' 16'

POWER AND SYSTEMS PLAN
1/8" = 1'-0"

A4

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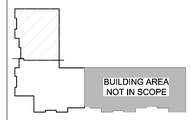

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POWER AND
SYSTEMS PLAN

E201

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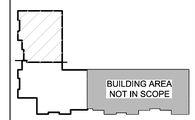


HILLSBOROUGH COUNTY
SHERIFF'S DEPARTMENT
P.O BOX 3371

HILLSBOROUGH COUNTY SHERIFF'S
DEPARTMENT RENOVATIONS
PINEBROOK BUSINESS PARK

PROJECT #: 1505-00

DISTRIBUTION	DATE
CD CHECK SET	10/15/15
100% CONST. DOCS	11/16/15

FIRE ALARM
SYSTEMS PLAN

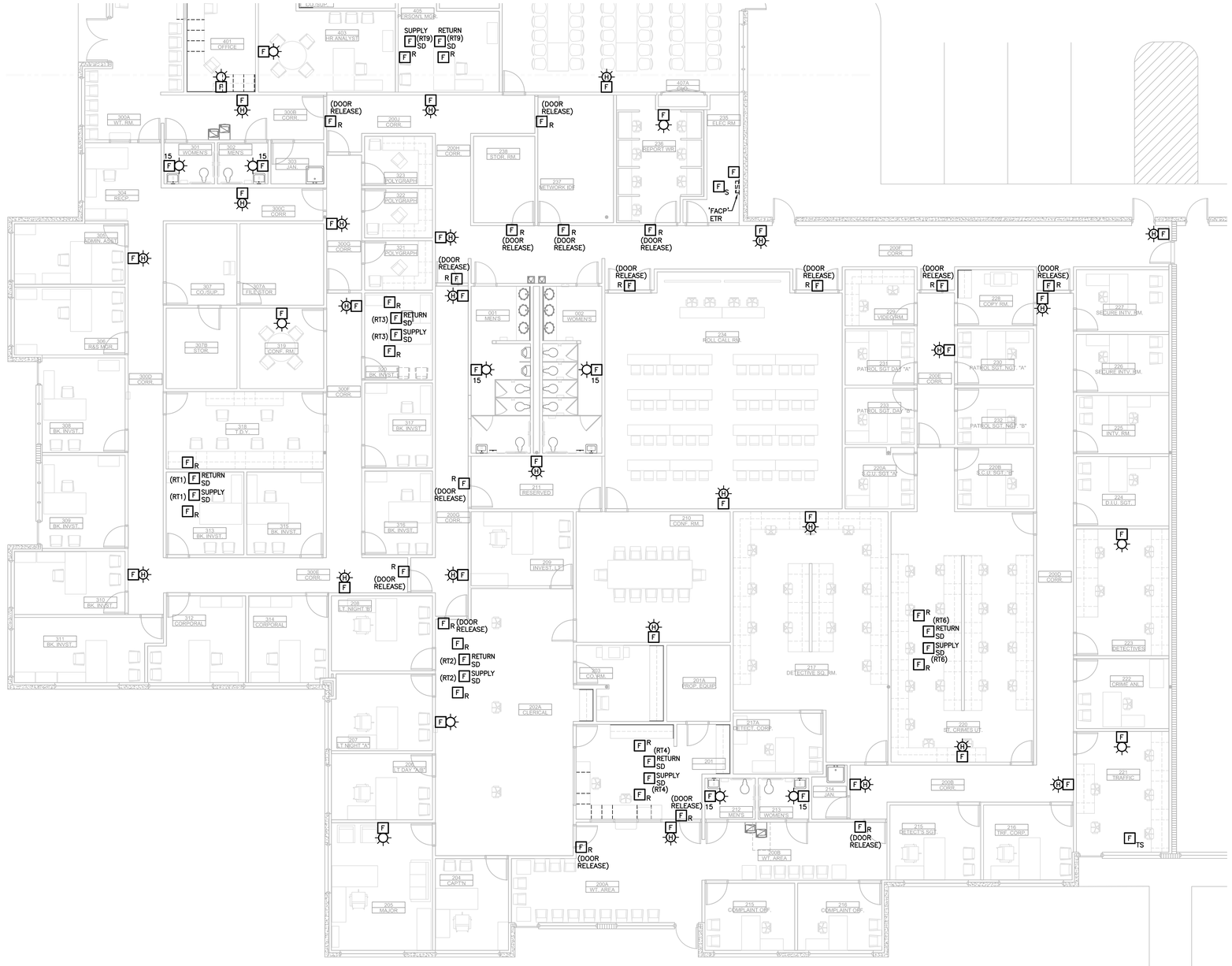
E301

0' 4' 8' 16'

FIRE ALARM SYSTEMS PLAN
1/8" = 1'-0"

A4

Drawing File: i:\15xxx\15042.001\15042x30v.dwg E301
Plotted by: Andrew - Nov 16, 2015 - 3:21pm



N

0' 4' 8' 16'

FIRE ALARM SYSTEMS PLAN
1/8" = 1'-0"

A4

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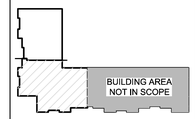

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PROJECT #: 1505-00	
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FIRE ALARM
SYSTEMS PLAN

E302

Drawing File: i:\15xxx\15042.001\15042a30x.dwg E302
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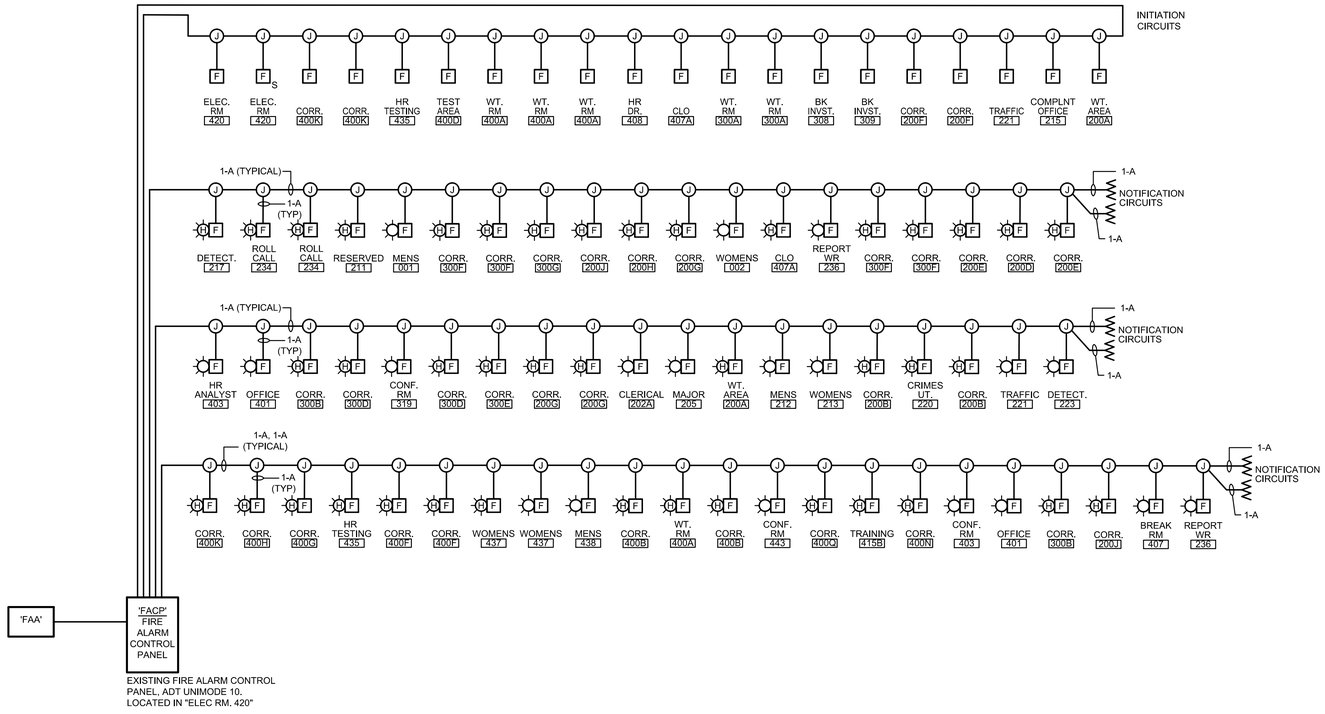

N

0' 4' 8' 16'

FIRE ALARM RISER DIAGRAM
NOT TO SCALE

A4

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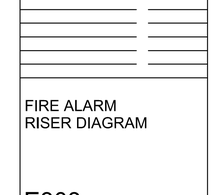

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PINEBROOK BUSINESS PARK

PROJECT #: 1505-00	
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FIRE ALARM
RISER DIAGRAM

E303

Drawing File: J:\15xxx\15042.001\15042e303.dwg E303
Plotted by: Andrew Nov 16, 2015 - 3:21 pm



MECHANICAL EQUIPMENT CONNECTION SCHEDULE

MARK	ROOM NO.	VOLTAGE/PHASE	KW	HEATER FLA	FLA	MCA	BREAKER	HOMERUN CIRCUIT	CONDUIT & CABLING	COMBINATION STARTER/DISCONNECT SWITCH: SIZE AMPS	POLES	FUSE	STARTER SIZE	NEMA RATING	INTERLOCK/REMARKS
ROOFTOP UNIT															
RT-1	–	208/3	–	33.4	38.6	47.0	50 (ETR)	ETR	ETR	ETR	ETR	MFS	N/A	3	–
RT-2	–	208/3	–	33.4	38.6	47.0	50 (ETR)	ETR	ETR	ETR	ETR	MFS	N/A	3	–
RT-3	–	208/3	–	33.4	38.6	47.0	50 (ETR)	ETR	ETR	ETR	ETR	MFS	N/A	3	–
RT-4	–	208/3	–	33.4	38.6	47.0	50 (ETR)	ETR	ETR	ETR	ETR	MFS	N/A	3	–
RT-5	–	208/3	–	13.6	21.1	24.5	50 (ETR)	ETR	ETR	ETR	ETR	MFS	N/A	3	–
RT-6	–	208/3	–	33.4	39.2	37.6	60 (ETR)	ETR	ETR	ETR	ETR	MFS	N/A	3	–
RT-7	–	208/3	–	–	28.8	34.7	40 (ETR)	ETR	ETR	ETR	ETR	MFS	N/A	3	–
RT-8	–	208/3	–	21.9	28.8	34.7	40 (ETR)	ETR	ETR	ETR	ETR	MFS	N/A	3	–
RT-9	–	208/3	–	21.7	34.7	38.1	60 (ETR)	ETR	ETR	ETR	ETR	MFS	N/A	3	–
RT-10	–	208/3	–	33.4	39.2	47.6	60 (ETR)	ETR	ETR	ETR	ETR	MFS	N/A	3	–
RT-11	–	208/3	–	33.4	39.2	47.6	50 (ETR)	ETR	ETR	ETR	ETR	MFS	N/A	3	–
RT-12	–	208/3	–	33.4	38.6	47.0	50 (ETR)	ETR	ETR	ETR	ETR	MFS	N/A	3	–
RT-13	–	208/3	–	13.6	20.2	24.0	40 (ETR)	ETR	ETR	ETR	ETR	MFS	N/A	3	–
RT-14	–	208/3	–	33.4	38.3	46.6	50 (ETR)	ETR	ETR	ETR	ETR	MFS	N/A	3	–
RT-15	–	208/3	–	33.4	39.2	47.5	50 (ETR)	ETR	ETR	ETR	ETR	MFS	N/A	3	–
RT-16	–	208/3	–	33.4	39.2	47.5	50 (ETR)	ETR	ETR	ETR	ETR	MFS	N/A	3	–
RT-17	–	208/3	–	33.4	38.3	46.5	50 (ETR)	ETR	ETR	ETR	ETR	MFS	N/A	3	–
ELECTRIC WATER HEATER															
EWH-1	–	208/1	4.5	–	21.6	27.0	ETR	ETR	ETR	–	–	–	–	–	–
EWH-2	–	208/1	3.0	–	14.4	18.0	20	–	2 #12, 1 #12 E.G. – 3/4"C.	–	–	–	–	–	–
EXHAUST FAN															
EF-1	–	120/1	.08	–	–	–	–	ETR	ETR	DIV15	–	–	–	–	SWITCHED LEG/LOCAL LIGHTS
EF-2	–	120/1	.08	–	–	–	–	ETR	ETR	DIV15	–	–	–	–	SWITCHED LEG/LOCAL LIGHTS
EF-3	–	120/1	.08	–	–	–	–	ETR	ETR	DIV15	–	–	–	–	SWITCHED LEG/LOCAL LIGHTS
EF-4	–	120/1	.08	–	–	–	–	ETR	ETR	DIV15	–	–	–	–	SWITCHED LEG/LOCAL LIGHTS
EF-5	–	120/1	0.1	–	–	–	–	ETR	ETR	DIV15	–	–	–	–	SWITCHED LEG/LOCAL LIGHTS

MECHANICAL CONNECTION SCHEDULE ABBREVIATIONS:

MFS = MANUFACTURER'S RECOMMENDED FUSE SIZE
NF = NON-FUSED
MRS = MOTOR RATED TOGGLE SWITCH BY DIVISION 16
DIV15 = DISCONNECTING MEANS PROVIDED BY THE EQUIPMENT MANUFACTURER OR DIVISION 15 CONTRACTOR
VFD = VARIABLE FREQUENCY DRIVE (FURNISHED BY DIVISION 15) INSTALLED BY DIVISION 16
ETR = EXISTING TO REMAIN

N

0' 4' 8' 16' MECHANICAL EQUIPMENT PLAN 1/8" = 1'-0" A4

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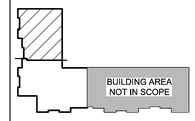

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PINEBROOK BUSINESS PARK

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MECHANICAL
EQUIPMENT PLAN

E401

Drawing File: J:\15xxx\15042.001\15042e40x.dwg E401
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MECHANICAL
EQUIPMENT PLAN

E402

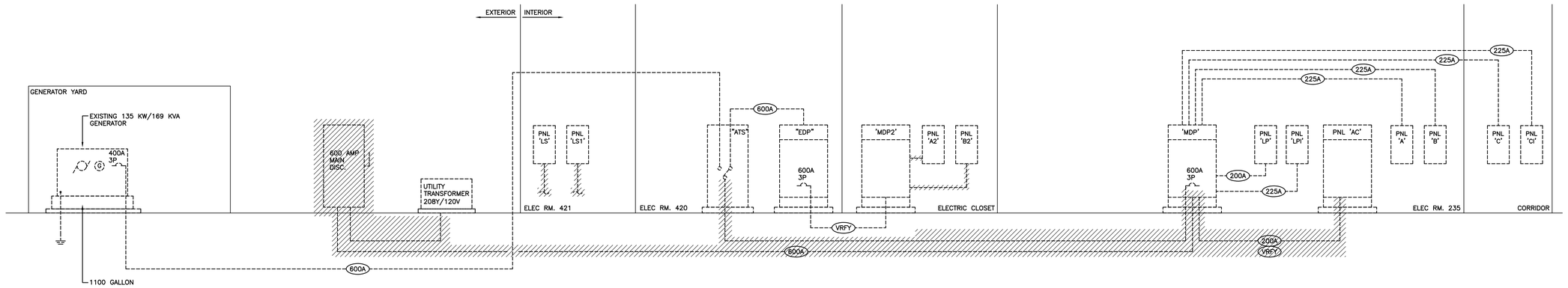
Drawing File: J:\15xxx\15042.001\15042e40x.dwg E402
Plotted by: Andrew Nov 16, 2015 - 3:21pm

FEEDER SCHEDULE

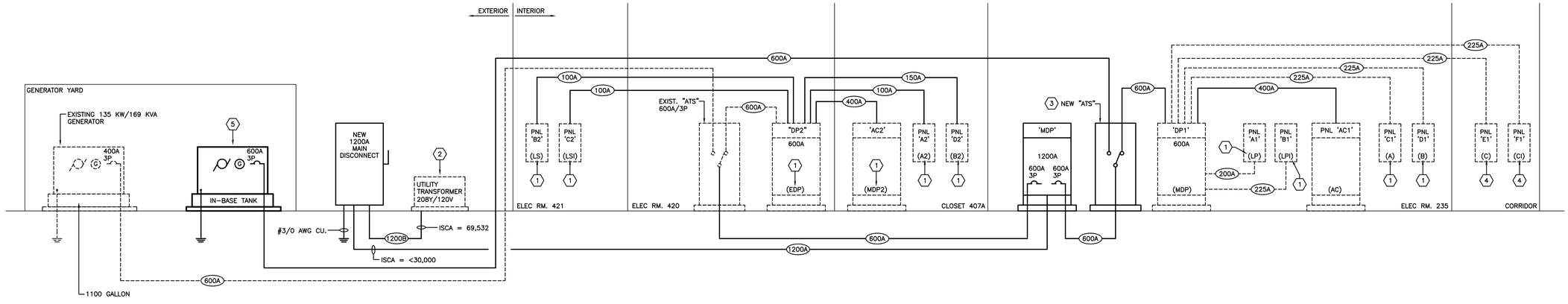
AMPS	CONDUIT & CABLING
100A	1-1/4"C; 3-#3, 1-#3 NEUTRAL, 1-#8 GROUND
150A	2"C; 3-#1/0, 1-#1/0 NEUTRAL, 1-#6 GROUND
200A	2"C; 3-#3/0, 1-#3/0 NEUTRAL, 1-#6 GROUND
225A	2-1/2"C; 3-#4/0, 1-#4/0 NEUTRAL, 1-#4 GROUND
400A	TWO(2) 2"C; EACH WITH 3-#3/0, 1-#3/0 NEUTRAL, 1-#3 GROUND
600A	TWO(2) 3-1/2"C; EACH WITH 3-#350 KCMIL, 1-#350 KCMIL NEUTRAL, 1-#1 GROUND
1200A	FOUR(4) 3-1/2"C; 3-#350 KCMIL, 1-#350 KCMIL NEUTRAL, 1-#3/0 GROUND
1200B	FOUR(4) 3-1/2"C; 3-#350 KCMIL, 1-#350 KCMIL NEUTRAL

DRAWING NOTES:

1. REUSE EXISTING PANEL AS INDICATED.
2. CONTACT TAMPA ELECTRIC AND SCHEDULE DOWNTIME ON TRANSFORMER FOR REMOVAL OF OLD SERVICE AND INSTALLATION OF NEW.
3. 600A, 3 POLE, AUTOMATIC TRANSFER SWITCH, WITH SOLID NEUTRAL. SEE SPECIFICATION 16225.
4. SPARE PANELS, NOT USED.
5. PROVIDE 200KW/250KVA NEW DIESEL ENGINE DRIVEN GENERATOR WITH 150 MPH MISSILE IMPACT CRITICALLY SILENCED ENCLOSURE, AND IN-BASE FUEL TANK SIZED FOR 100% LOAD FOR 72 HOURS. SEE SPECIFICATION 16200.
6. 1200A, 3 POLE, 4 WIRE, FUSED, NEMA 3R, SERVICE ENTRANCE DISCONNECT. FUSED AT 1200A, CLASS L FUSES.



DEMOLITION ONE-LINE DIAGRAM
NOT TO SCALE



NEW ONE-LINE DIAGRAM
NOT TO SCALE

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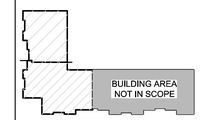

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ELECTRICAL RISER DIAGRAM

E501

Drawing File: i:\15wrx\15042.001\15042e501.dwg E501
Plotted by: Andrew Nov 16, 2015 - 3:22pm

NEW PANEL

PANEL: MDP — AIC RATING: 65000 AMPS — SERVICE: 120/208 V., — 3PH,4W — MLO: 1200 AMPS — MCB: 0 AMPS

DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION
PNL DP1	71.6	3P	1				2	3P	63.35	PNL DP2
PNL DP1	70.1	600	3				4	600	61.05	PNL DP2
PNL DP1	70	"	5				6	"	59.3	PNL DP2
SPACE	0	–	7				8	–	0	SPACE
SPACE	0	–	9				10	–	0	SPACE
SPACE	0	–	11				12	–	0	SPACE
SPACE	0	–	13				14	–	0	SPACE
SPACE	0	–	15				16	–	0	SPACE
SPACE	0	–	17				18	–	0	SPACE
SPACE	0	–	19				20	–	0	SPACE
SPACE	0	–	21				22	–	0	SPACE
SPACE	0	–	23				24	–	0	SPACE
SPACE	0	–	25				26	–	0	SPACE
SPACE	0	–	27				28	–	0	SPACE
SPACE	0	–	29				30	–	0	SPACE
SPACE	0	–	31				32	–	0	SPACE
SPACE	0	–	33				34	–	0	SPACE
SPACE	0	–	35				36	–	0	SPACE
SPACE	0	–	37				38	–	0	SPACE
SPACE	0	–	39				40	–	0	SPACE
SPACE	0	–	41				42	–	0	SPACE

A PH = 134.95 — B PH = 131.15 — C PH = 129.30

SERVES	CONN LOAD		FACTOR		FEED	DIVERSITY		KVAD	PANEL KVAD
LIGHTING	0.00	x	1.25	=	0.00	x	=		
RECEPT	0.00	x	*	=	0.00	x	=		
MISC EQUIP	0.00	x	1.00	=	0.00	x	=		
A/C	0.00	x	1.00	=	0.00	x	=		
HEATING	0.00	x	1.00	=	0.00	x	=		
LARGEST MOTOR	0.00	x	1.25	=	0.00	x	=		
OTHER MOTORS	0.00	x	1.00	=	0.00	x	=		
OTHER	395.40	x	1.00	=	395.40	x	=		
SPARE					36.41				
TOTALS	395.40	KVA			431.81	KVA			

* PER N.E.C. TABLE 220.44

EXISTING PANEL

PANEL: DP1 — AIC RATING: EXIST AMPS — SERVICE: 120/208 V., — 3PH,4W — MLO: 600 AMPS — MCB: 0 AMPS

	DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION	
E	SPARE	0	3P	1				2	3P	6.8	PNL A1	E
E	SPARE	0	200	3				4	200	7	PNL A1	E
E	SPARE	0	"	5				6	"	4.1	PNL A1	E
E	PNL C1	9.6	3P	7				8	3P	0	PNL E1	E
E	PNL C1	9.5	225	9				10	225	0	PNL E1	E
E	PNL C1	9.9	"	11				12	"	0	PNL E1	E
E	PNL D1	14.3	3P	13				14	3P	0	PNL F1	E
E	PNL D1	12.8	225	15				16	225	0	PNL F1	E
E	PNL D1	15.2	"	17				18	"	0	PNL F1	E
E	PNL B1	7.1	3P	19				20	3P	33.8	PNL AC1	N
E	PNL B1	7	225	21				22	400	33.8	PNL AC1	N
E	PNL B1	7	"	23				24	"	33.8	PNL AC1	N
	SPACE	0	–	25				26	–	0	SPACE	
	SPACE	0	–	27				28	–	0	SPACE	
	SPACE	0	–	29				30	–	0	SPACE	
	SPACE	0	–	31				32	–	0	SPACE	
	SPACE	0	–	33				34	–	0	SPACE	
	SPACE	0	–	35				36	–	0	SPACE	
	SPACE	0	–	37				38	–	0	SPACE	
	SPACE	0	–	39				40	–	0	SPACE	
	SPACE	0	–	41				42	–	0	SPACE	

A PH = 71.60 — B PH = 70.10 — C PH = 70.00

SERVES	CONN LOAD		FACTOR		FEED	DIVERSITY		KVAD	PANEL KVAD
LIGHTING	0.00	x	1.25	=	0.00	x	=		
RECEPT	0.00	x	*	=	0.00	x	=		
MISC EQUIP	0.00	x	1.00	=	0.00	x	=		
A/C	0.00	x	1.00	=	0.00	x	=		
HEATING	0.00	x	1.00	=	0.00	x	=		
LARGEST MOTOR	0.00	x	1.25	=	0.00	x	=		
OTHER MOTORS	0.00	x	1.00	=	0.00	x	=		
OTHER	211.70	x	1.00	=	211.70	x	=		
SPARE					4.20				
TOTALS	211.70	KVA			215.90	KVA			

* PER N.E.C. TABLE 220.44

EXISTING PANEL

PANEL: AC1 — AIC RATING: EXIST AMPS — SERVICE: 120/208 V., — 3PH,4W — MLO: 0 AMPS — MCB: 400 AMPS

	DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION	
E	SPARE	0	3P	1				2	3P	0	SPARE	E
E	SPARE	0	40	3				4	20	0	SPARE	E
E	SPARE	0	"	5				6	"	0	SPARE	E
E	SPARE	0	3P	7				8	3P	3	EQ; RT7	E
E	SPARE	0	40	9				10	40	3	EQ; RT7	E
E	SPARE	0	"	11				12	"	3	EQ; RT7	E
E	EQ; RT17	4.6	3P	13				14	3P	4.6	EQ; RT1	E
E	EQ; RT17	4.6	50	15				16	50	4.6	EQ; RT1	E
E	EQ; RT17	4.6	"	17				18	"	4.6	EQ; RT1	E
E	SPARE	0	3P	19				20	3P	4.6	EQ; RT2	E
E	SPARE	0	50	21				22	50	4.6	EQ; RT2	E
E	SPARE	0	"	23				24	"	4.6	EQ; RT2	E
E	EQ; RT3	4.6	3P	25				26	3P	4.6	EQ; RT4	E
E	EQ; RT3	4.6	50	27				28	50	4.6	EQ; RT4	E
E	EQ; RT3	4.6	"	29				30	"	4.6	EQ; RT4	E
E	SPARE	0	3P	31				32	3P	3.2	EQ; RT5	E
E	SPARE	0	60	33				34	60	3.2	EQ; RT5	E
E	SPARE	0	"	35				36	"	3.2	EQ; RT5	E
E	SPARE	0	3P	37				38	3P	4.6	EQ; RT6	E
E	SPARE	0	60	39				40	60	4.6	EQ; RT6	E
E	SPARE	0	"	41				42	"	4.6	EQ; RT6	E

A PH = 33.80 — B PH = 33.80 — C PH = 33.80

SERVES	CONN LOAD		FACTOR		FEED	DIVERSITY		KVAD	PANEL KVAD
LIGHTING	0.00	x	1.25	=	0.00	x	=		
RECEPT	0.00	x	*	=	0.00	x	=		
MISC EQUIP	101.40	x	1.00	=	101.40	x	=		
A/C	0.00	x	1.00	=	0.00	x	=		
HEATING	0.00	x	1.00	=	0.00	x	=		
LARGEST MOTOR	0.00	x	1.25	=	0.00	x	=		
OTHER MOTORS	0.00	x	1.00	=	0.00	x	=		
OTHER	0.00	x	1.00	=	0.00	x	=		
SPARE					42.54				
TOTALS	101.40	KVA			143.94	KVA			

* PER N.E.C. TABLE 220.44

EXISTING PANEL

PANEL: A1 — AIC RATING: EXIST AMPS — SERVICE: 120/208 V., — 3PH,4W — MLO: 200 AMPS — MCB: 0 AMPS

DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION
LTG; SR OFFICES	1.3	20	1				2	20	1	LTG; DO CORR.
LTG; SR CORR.	1.1	20	3				4	20	1.4	LTG; DO NETWORK/ELEC
LTG; SR CORR.	0.6	20	5				6	20	1.2	LTG; DO ROLL CALL
EQ; FACP	0.4	20	7				8	20	1.4	LTG; DO OFFICES/CORR.
LTG; SR OFFICES	1.3	20	9				10	20	1.4	LTG; DO OFFICES
SPACE	0	–	11				12	20	1.3	LTG; DO STREET CRIME
SPACE	0	–	13				14	20	1.4	LTG; DO DETECTIVE
SPACE	0	–	15				16	20	1	LTG; DO OFFICES
SPACE	0	–	17				18	20	1	LTG; DO CONF/CLERICAL
SPACE	0	–	19				20	20	1.3	LTG; DO CORR.
SPACE	0	–	21				22	20	0.8	LTG; DO OFFICES
SPACE	0	–	23				24	20	0	SPARE
SPACE	0	–	25				26	20	0	SPARE
SPACE	0	–	27				28	20	0	SPARE
SPACE	0	–	29				30	20	0	SPARE
SPACE	0	–	31				32	20	0	SPARE
SPACE	0	–	33				34	20	0	SPARE
SPACE	0	–	35				36	20	0	SPARE
SPACE	0	–	37				38	20	0	SPARE
SPACE	0	–	39				40	20	0	SPARE
SPACE	0	–	41				42	20	0	SPARE

A PH = 6.80 — B PH = 7.00 — C PH = 4.10

SERVES	CONN LOAD		FACTOR		FEED	DIVERSITY		KVAD	PANEL KVAD
LIGHTING	17.50	x	1.25	=	21.88	x	=		
RECEPT	0.00	x	*	=	0.00	x	=		
MISC EQUIP	0.40	x	1.00	=	0.40	x	=		
A/C	0.00	x	1.00	=	0.00	x	=		
HEATING	0.00	x	1.00	=	0.00	x	=		
LARGEST MOTOR	0.00	x	1.25	=	0.00	x	=		
OTHER MOTORS	0.00	x	1.00	=	0.00	x	=		
OTHER	0.00	x	1.00	=	0.00	x	=		
SPARE					49.69				
TOTALS	17.90	KVA			71.97	KVA			

* PER N.E.C. TABLE 220.44

EXISTING PANEL

PANEL: B1 — AIC RATING: EXIST AMPS — SERVICE: 120/208 V., — 3PH,4W — MLO: 225 AMPS — MCB: 0 AMPS

DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION
REC; SR OFFICE	0.4	20	1				2	20	0.7	REC; DO OFFICE
REC; SR OFFICE	0.5	20	3				4	20	0.5	REC; DO OFFICE
REC; SR OFFICE	0.5	20	5				6	20	0.5	REC; DO OFFICE
REC; SR OFFICE	0.5	20	7				8	20	0.5	REC; DO OFFICE
REC; SR OFFICE	0.5	20	9				10	20	0.5	REC; DO OFFICE
REC; SR OFFICE	0.5	20	11				12	20	0.5	REC; DO OFFICE
REC; SR OFFICE	0.5	20	13				14	20	0.5	REC; DO OFFICE
REC; SR OFFICE	0.5	20	15				16	20	0.5	REC; DO OFFICE
REC; SR OFFICE	0.5	20	17				18	20	0.5	REC; DO OFFICE
REC; SR OFFICE	0.5	20	19				20	20	0.5	REC; DO OFFICE
REC; SR OFFICE	0.5	20	21				22	20	0.5	REC; DO OFFICE
REC; SR OFFICE	0.5	20	23				24	20	0.5	REC; DO OFFICE
REC; SR OFFICE	0.5	20	25				26	20	0.5	REC; DO OFFICE
REC; SR OFFICE	0.5	20	27				28	20	0.5	REC; DO OFFICE
REC; SR OFFICE	0.5	20	29				30	20	0.5	REC; DO OFFICE
REC; SR OFFICE	0.5	20	31				32	20	0.5	REC; DO OFFICE
REC; SR T.D.Y.	0.5	20	33				34	20	0.5	REC; DO OFFICE
REC; SR T.D.Y.	0.5	20	35				36	20	0.5	REC; DO OFFICE
REC; SR CONFERENCE	0.5	20	37				38	20	0.5	REC; DO OFFICE
REC; SR STORAGE	0.5	20	39				40	20	0.5	REC; DO OFFICE
REC; SR FILE STORAGE	0.5	20	41				42	20	0.5	REC; DO VIDEO ROOM

A PH = 7.10 — B PH = 7.00 — C PH = 7.00

SERVES	CONN LOAD		FACTOR		FEED	DIVERSITY		KVAD	PANEL KVAD
LIGHTING	0.00	x	1.25	=	0.00	x	=		
RECEPT	21.10	x	*	=	15.55	x	=		
MISC EQUIP	0.00	x	1.00	=	0.00	x	=		
A/C	0.00	x	1.00	=	0.00	x	=		
HEATING	0.00	x	1.00	=	0.00	x	=		
LARGEST MOTOR	0.00	x	1.25	=	0.00	x	=		
OTHER MOTORS	0.00	x	1.00	=	0.00	x	=		
OTHER	0.00	x	1.00	=	0.00	x	=		
SPARE					65.41				
TOTALS	21.10	KVA			80.96	KVA			

* PER N.E.C. TABLE 220.44

EXISTING PANEL

PANEL: C1 — AIC RATING: EXIST AMPS — SERVICE: 120/208 V., — 3PH,4W — MLO: 225 AMPS — MCB: 0 AMPS

	DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION	
D	REC; DO OFFICES	0.5	20	1				2	20	1.2	EQ; DATA RACK	E
D	REC; DO OFFICES	0.5	20	3				4	20	1.2	EQ; DATA RACK	E
E	REC; DO RM 201	0.7	20	5				6	20	1.2	EQ; DATA RACK	E
E	REC; DO STORAGE RM	0.4	20	7				8	20	1.2	EQ; DATA RACK	E
D	REC; DO STORAGE RM	0.5	20	9				10	20	1.2	EQ; DATA RACK	N
D	REC; DO OFFICES	0.5	20	11				12	20	1.2	EQ; DATA RACK	E
E	REC; DO OFFICES	0.5	20	13				14	20	1.2	EQ; DATA RACK	E
E	REC; DO OFFICES	0.5	20	15				16	20	0.5	REC; DO REPORT WR	E
E	REC; DO ROLL CALL	0.5	20	17				18	20	0.7	REC; DO REPORT WR	E
N	REC; DO WT AREA	0.4	20	19				20	20	0.5	REC; DO ROLL CALL	N
N	REC; DO TELE BOARD	0.7	20	21				22	20	0.5	REC; DO TRAFFIC	N
E	REC; DO TELE BOARD	0.7	20	23				24	20	0.5	REC; DO TRAFFIC	N
N	REC; DO DETECTIVE SQ.	0.7	20	25				26	20	0.7	REC; DO DETECTIVES	N
N	REC; DO DETECTIVE SQ.	0.7	20	27				28	20	0.9	REC; DO STREET CRIME	N
N	REC; DO DETECTIVE SQ.	0.7	20	29				30	20	0.7	REC; DO STREET CRIME	N
N	REC; DO DETECTIVE SQ.	0.7	20	31				32	20	0.7	REC; DO STREET CRIME	N
N	REC; DO CONFERENCE	0.7	20	33				34	20	0.7	REC; DO STREET CRIME	N
N	REC; CLERICAL PWR POLE	0.9	20	35				36	20	0.7	REC; DO STREET CRIME	N
E	REC; CLERICAL PWR POLE	0.9	20	37				38	20	0	SPARE	E
E	REC; CLERICAL PWR POLE	0.9	20	39				40	20	0	SPARE	E
N	REC; CLERICAL PWR POLE	0.9	20	41				42	20	0	SPARE	N

A PH = 9.60 — B PH = 9.50 — C PH = 9.90

SERVES	CONN LOAD		FACTOR		FEED	DIVERSITY		KVAD	PANEL KVAD
LIGHTING	0.00	x	1.25	=	0.00	x	=		
RECEPT	20.60	x	*	=	15.30	x	=		
MISC EQUIP	8.40	x	1.00	=	8.40	x	=		
A/C	0.00	x	1.00	=	0.00	x	=		
HEATING	0.00	x	1.00	=	0.00	x	=		
LARGEST MOTOR	0.00	x	1.25	=	0.00	x	=		
OTHER MOTORS	0.00	x	1.00	=	0.00	x	=		
OTHER	0.00	x	1.00	=	0.00	x	=		
SPARE					57.26				
TOTALS	29.00	KVA			80.96	KVA			

* PER N.E.C. TABLE 220.44

EXISTING PANEL

PANEL: D1 — AIC RATING: EXIST AMPS — SERVICE: 120/208 V., — 3PH,4W — MLO: 225 AMPS — MCB: 0 AMPS

	DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION	
E	EQ; HAND DRYER SR	1.5	20	1				2	20	1.5	EQ; HAND DRYER DO	N
E	EQ; HAND DRYER SR	1.5	20	3				4	20	1.5	EQ; HAND DRYER DO	E
N	REC; COPIER	1	20	5				6	20	1.5	EQ; HAND DRYER DO	N
N	EQ; EWC	0.5	20	7				8	20	1.5	EQ; HAND DRYER DO	E
E	REC; GEN PURPOSE	0.9	20	9				10	20	1	REC; COPIER	E
E	REC; GEN PURPOSE	0.9	20	11				12	20	1	REC; COPIER	E
E	REC; GEN PURPOSE	0.9	20	13				14	20	1	REC; COPIER	E
E	REC; GEN PURPOSE	1.1	20	15				16	20	1	REC; COPIER	E
E	REC; GEN PURPOSE	0.9	20	17				18	20	0.5	EQ; EWC	E
E	REC; GEN PURPOSE	1.1	20	19				20	20	0.5	EQ; EWC	E
E	REC; GEN PURPOSE	0.5	20	21				22	20	0.5	EQ; EWC	E
E	REC; GEN PURPOSE	0.9	20	23				24	20	1	REC; PROJ/SCREEN	E
E	SPARE	0	20	25				26	20	0.5	REC; PRINTER	E
E	SPARE	0	20	27				28	20	0	SPARE	E
N	EQ; EWH-2	2	3P	29				30	20	1	EQ; DOOR CONTROLLERS	E
N	EQ; EWH-2	2	30	31				32	20	0.9	REC; GEN PURPOSE	E
N	EQ; EWH-2	2	"	33				34	20	0.7	REC; GEN PURPOSE	E
N	EQ; EWH-1	1.5	2P	35				36	20	0.7	REC; GEN PURPOSE	E
N	EQ; EWH-1	1.5	20	37				38	20	0.9	REC; GEN PURPOSE	E
N	A/C; MINI-SPLIT IDF ROOM	1.4	2P	39				40	20	0.7	REC; GEN PURPOSE	E
N	A/C; MINI-SPLIT IDF ROOM	1.4	20	41				42	20	0.9	REC; GEN PURPOSE	E

A PH = 14.30 — B PH = 12.80 — C PH = 15.20

SERVES	CONN LOAD		FACTOR		FEED	DIVERSITY		KVAD	PANEL KVAD
LIGHTING	0.00	x	1.25	=	0.00	x	=		
RECEPT	18.50	x	*	=	14.25	x	=		
MISC EQUIP	21.00	x	1.00	=	21.00	x	=		
A/C	2.80	x	1.00	=	2.80	x	=		
HEATING	0.00	x	1.00	=	0.00	x	=		
LARGEST MOTOR	0.00	x	1.25	=	0.00	x	=		
OTHER MOTORS	0.00	x	1.00	=	0.00	x	=		
OTHER	0.00	x	1.00	=	0.00	x	=		
SPARE					42.91				
TOTALS	42.30	KVA			80.96	KVA			

* PER N.E.C. TABLE 220.44

E = EXISTING CIRCUIT TO REMAIN.
N = NEW BREAKER AND CIRCUIT.
R = REUSE EXISTING CIRCUIT BREAKER TO FEED NEW CIRCUIT.
S = SPARE OUT EXISTING BREAKER. REMOVE ALL ABANDONED CONDUCTORS AND CONDUIT.
D = REMOVE EXISTING CIRCUIT BREAKER AND PROVIDE NEW BREAKER, CONDUIT AND WIRE.
DS = REMOVE EXISTING CIRCUIT BREAKER AND PROVIDE NEW SPARE BREAKER.

ALL PANELBOARDS SHALL BE ACCURATELY LABELED AND NUMBERED TO IDENTIFY FINAL CIRCUIT NUMBERS UTILIZED, THEIR LOAD AND LOCATION.

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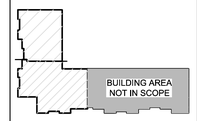
NOT FOR CONSTRUCTION
ROBERT C. ANSTON, P.E. 40858
TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE 2014 FLORIDA BUILDING CODE



HILLSBOROUGH COUNTY
SHERIFF'S
DEPARTMENT RENOVATIONS
PINEBROOK BUSINESS PARK

PROJECT #: 1505-00	
DISTRIBUTION	DATE
CD CHECK SET	10/15/15
100% CONST. DOCS	11/16/15

ELECTRICAL PANEL SCHEDULES

E601

ELECTRICAL PANEL SCHEDULES
NOT TO SCALE

A4

Drawing File: i:\15xxx\15042.001\15042e601.dwg E601
Plotted by: Andrew Nov 16, 2015 - 3:22pm

EXISTING PANEL

PANEL: DP2 | AIC RATING: EXIST AMPS | SERVICE: 120/208 V., | 3PH,4W | MLO: 0 AMPS | MCB: 600 AMPS

	DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION	
E	EQ; RT15	4.6	3P	1				2	3P	4.6	EQ; RT16	E
E	EQ; RT15	4.6	50	3				4	50	4.6	EQ; RT16	E
E	EQ; RT15	4.6	"	5				6	"	4.6	EQ; RT16	E
N	PNL B2	6.4	3P	7				8	3P	3.8	PNL C2	D
N	PNL B2	6.3	100	9				10	100	3.3	PNL C2	D
N	PNL B2	6.7	"	11				12	"	3.1	PNL C2	D
	SPACE	0	–	13				14	–	0	SPACE	
	SPACE	0	–	15				16	–	0	SPACE	
E	PNL AC2	29.1	3P	17				18	–	0	SPACE	
E	PNL AC2	29.1	600	19				20	–	0	SPACE	
E	PNL AC2	29.1	"	21				22	–	0	SPACE	
E	SPARE	0	3P	23				24	–	0	SPACE	
E	SPARE	0	175	25				26	–	0	SPACE	
E	SPARE	0	"	27				28	–	0	SPACE	
N	PNL A2	5.55	3P	29				30	3P	9.3	PNL D2	N
N	PNL A2	4.65	100	31				32	150	8.5	PNL D2	N
N	PNL A2	2.7	"	33				34	"	8.5	PNL D2	N
	SPACE	0	–	35				36	–	0	SPACE	
	SPACE	0	–	37				38	–	0	SPACE	
	SPACE	0	–	39				40	–	0	SPACE	
	SPACE	0	–	41				42	–	0	SPACE	

A PH = 61.65 | B PH = 59.10 | C PH = 62.95

SERVES	CONN LOAD		FACTOR		FEED	DIVERSITY		KVAD	PANEL KVAD
LIGHTING	0.00	x	1.25	=	0.00	x	=		
RECEPT	0.00	x	*	=	0.00	x	=		
MISC EQUIP	27.60	x	1.00	=	27.60	x	=		
A/C	0.00	x	1.00	=	0.00	x	=		
HEATING	0.00	x	1.00	=	0.00	x	=		
LARGEST MOTOR	0.00	x	1.25	=	0.00	x	=		
OTHER MOTORS	0.00	x	1.00	=	0.00	x	=		
OTHER	156.10	x	1.00	=	156.10	x	=		
SPARE					32.20				
TOTALS	183.70 KVA				215.90 KVA				

* PER N.E.C. TABLE 220.44

EXISTING PANEL

PANEL: AC2 | AIC RATING: EXIST AMPS | SERVICE: 120/208 V., | 3PH,4W | MLO: 400 AMPS | MCB: 0 AMPS

	DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION	
E	EQ; RT10	4.1	3P	1				2	3P	4.2	EQ; RT9	E
E	EQ; RT10	4.1	60	3				4	60	4.2	EQ; RT9	E
E	EQ; RT10	4.1	"	5				6	"	4.2	EQ; RT9	E
E	EQ; RT11	4.6	3P	7				8	3P	4.6	EQ; RT12	E
E	EQ; RT11	4.6	50	9				10	50	4.6	EQ; RT12	E
E	EQ; RT11	4.6	"	11				12	"	4.6	EQ; RT12	E
E	EQ; RT14	4.6	3P	13				14	3P	4.6	EQ; RT8	E
E	EQ; RT14	4.6	50	15				16	40	4.6	EQ; RT8	E
E	EQ; RT14	4.6	"	17				18	"	4.6	EQ; RT8	E
E	EQ; RT13	2.4	3P	19				20	–	0	SPACE	
E	EQ; RT13	2.4	40	21				22	–	0	SPACE	
E	EQ; RT13	2.4	"	23				24	–	0	SPACE	
	SPACE	0	–	25				26	–	0	SPACE	
	SPACE	0	–	27				28	–	0	SPACE	
	SPACE	0	–	29				30	–	0	SPACE	
S	SPARE	0	3P	31				32	–	0	SPACE	
S	SPARE	0	225	33				34	–	0	SPACE	
S	SPARE	0	"	35				36	–	0	SPACE	
S	SPARE	0	3P	37				38	3P	0	SPARE	S
S	SPARE	0	225	39				40	225	0	SPARE	S
S	SPARE	0	"	41				42	"	0	SPARE	S

A PH = 29.10 | B PH = 29.10 | C PH = 29.10

SERVES	CONN LOAD		FACTOR		FEED	DIVERSITY		KVAD	PANEL KVAD
LIGHTING	0.00	x	1.25	=	0.00	x	=		
RECEPT	0.00	x	*	=	0.00	x	=		
MISC EQUIP	87.30	x	1.00	=	87.30	x	=		
A/C	0.00	x	1.00	=	0.00	x	=		
HEATING	0.00	x	1.00	=	0.00	x	=		
LARGEST MOTOR	0.00	x	1.25	=	0.00	x	=		
OTHER MOTORS	0.00	x	1.00	=	0.00	x	=		
OTHER	0.00	x	1.00	=	0.00	x	=		
SPARE					56.64				
TOTALS	87.30 KVA				143.94 KVA				

* PER N.E.C. TABLE 220.44

EXISTING PANEL

PANEL: A2 | AIC RATING: EXIST AMPS | SERVICE: 120/208 V., | 3PH,4W | MLO: 100 AMPS | MCB: 0 AMPS

	DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION	
E	LTG; HR TESTING	1.4	20	1				2	20	0	SPARE	S
E	LTG; HR CORR.	1.4	20	3				4	20	0	SPARE	S
E	LTG; HR OFFICES	1.3	20	5				6	20	0	SPARE	S
E	LTG; HR OFFICES	1.4	20	7				8	20	0	SPARE	S
E	LTG; HR CORR.	1	20	9				10	20	0	SPARE	S
E	LTG; HR REST RM/OFFICES	1.4	20	11				12	20	0	SPARE	S
E	LTG; HR CORR.	0.5	20	13				14	20	0	SPARE	S
	SPACE	0	–	15				16	20	0	SPARE	S
S	SPARE	0	20	17				18	20	0	SPARE	S
S	SPARE	0	20	19				20	2P	2.25	EQ; EWH–EXIST	
S	SPARE	0	20	21				22	30	2.25	EQ; EWH–EXIST	
S	SPARE	0	20	23				24	–	0	SPACE	
S	SPARE	0	20	25				26	20	0	SPARE	S
S	SPARE	0	20	27				28	–	0	SPACE	
S	SPARE	0	30	29				30	–	0	SPACE	
S	SPARE	0	30	31				32	–	0	SPACE	
	SPACE	0	–	33				34	–	0	SPACE	
	SPACE	0	–	35				36	–	0	SPACE	
	SPACE	0	–	37				38	20	0	SPARE	S
	SPACE	0	–	39				40	20	0	SPARE	S
	SPACE	0	–	41				42	20	0	SPARE	S

A PH = 5.55 | B PH = 4.65 | C PH = 2.70

SERVES	CONN LOAD		FACTOR		FEED	DIVERSITY		KVAD	PANEL KVAD
LIGHTING	8.40	x	1.25	=	10.50	x	=		
RECEPT	0.00	x	*	=	0.00	x	=		
MISC EQUIP	4.50	x	1.00	=	4.50	x	=		
A/C	0.00	x	1.00	=	0.00	x	=		
HEATING	0.00	x	1.00	=	0.00	x	=		
LARGEST MOTOR	0.00	x	1.25	=	0.00	x	=		
OTHER MOTORS	0.00	x	1.00	=	0.00	x	=		
OTHER	0.00	x	1.00	=	0.00	x	=		
SPARE					20.98				
TOTALS	12.90 KVA				35.98 KVA				

* PER N.E.C. TABLE 220.44

EXISTING PANEL

PANEL: B2 | AIC RATING: EXIST AMPS | SERVICE: 120/208 V., | 3PH,4W | MLO: 100 AMPS | MCB: 0 AMPS

	DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION	
E	REC; HR TESTING	0.5	20	1				2	20	0.5	REC; HR OFFICE	E
E	REC; HR TESTING	0.4	20	3				4	20	0.5	REC; HR OFFICE	E
E	REC; HR TESTING	0.5	20	5				6	20	0.5	REC; HR OFFICE	E
E	REC; HR TESTING	0.4	20	7				8	20	0.5	REC; HR OFFICE	E
E	REC; HR TESTING	0.5	20	9				10	20	0.5	REC; HR OFFICE	E
E	REC; HR TESTING	0.4	20	11				12	20	0.5	REC; HR OFFICE	E
E	REC; HR TESTING	0.5	20	13				14	20	0.5	REC; HR OFFICE	E
E	REC; HR TESTING	0.4	20	15				16	20	0.5	REC; HR OFFICE	E
E	REC; HR TESTING	0.5	20	17				18	20	0.4	REC; HR APP. STA.	E
E	REC; HR TESTING	0.4	20	19				20	20	0.5	REC; HR OFFICE	E
E	REC; HR TESTING	0.5	20	21				22	20	0.4	REC; HR WT ROOM	E
E	REC; HR TESTING	0.4	20	23				24	20	0.7	REC; HR OFFICE	E
E	REC; HR TESTING	0.5	20	25				26	20	0.7	REC; HR OFFICE	E
E	REC; HR TESTING	0.4	20	27				28	20	0.5	REC; HR OFFICE	E
E	REC; HR OFFICE	0.5	20	29				30	20	0.7	REC; HR CONFERENCE	E
E	REC; HR OFFICE	0.5	20	31				32	20	0.4	REC; HR TRAINING	E
E	REC; HR OFFICE	0.5	20	33				34	20	0.7	REC; HR TRAINING	E
E	REC;HR SUPPLIES	0.4	20	35				36	20	0.7	REC; HR TRAINING	E
E	REC; HR OFFICE	0.5	20	37				38	20	0	SPARE	N
E	REC; HR OFFICE	0.5	20	39				40	20	0	SPARE	N
E	REC; HR OFFICE	0.5	20	41				42	20	0	SPARE	E

A PH = 6.40 | B PH = 6.30 | C PH = 6.70

SERVES	CONN LOAD		FACTOR		FEED	DIVERSITY		KVAD	PANEL KVAD
LIGHTING	0.00	x	1.25	=	0.00	x	=		
RECEPT	19.40	x	*	=	14.70	x	=		
MISC EQUIP	0.00	x	1.00	=	0.00	x	=		
A/C	0.00	x	1.00	=	0.00	x	=		
HEATING	0.00	x	1.00	=	0.00	x	=		
LARGEST MOTOR	0.00	x	1.25	=	0.00	x	=		
OTHER MOTORS	0.00	x	1.00	=	0.00	x	=		
OTHER	0.00	x	1.00	=	0.00	x	=		
SPARE					21.28				
TOTALS	19.40 KVA				35.98 KVA				

* PER N.E.C. TABLE 220.44

EXISTING PANEL

PANEL: C2 | AIC RATING: EXIST AMPS | SERVICE: 120/208 V., | 3PH,4W | MLO: 100 AMPS | MCB: 0 AMPS

	DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION	
E	REC; HR TRAINING	0.7	20	1				2	20	0	SPARE	S
E	REC; HR TRAINING	0.7	20	3				4	20	0	SPARE	S
E	REC; HR TRAINING	0.7	20	5				6	20	0	SPARE	S
E	REC; HR TRAINING	0.7	20	7				8	20	0	SPARE	S
E	REC; HR TRAINING	0.7	20	9				10	30	0	SPARE	S
E	REC; HR TRAINING	0.7	20	11				12	30	0	SPARE	S
E	REC; HR TRAINING	0.7	20	13				14	20	0	SPARE	S
E	REC; HR TRAINING	0.7	20	15				16	20	0	SPARE	S
E	REC; HR TRAINING	0.7	20	17				18	20	0	SPARE	S
E	REC; HR TRAINING	0.7	20	19				20	20	0	SPARE	S
E	REC; HR OFFICE	0.7	20	21				22	20	0	SPARE	S
E	REC; HR OFFICE	0.5	20	23				24	20	0	SPARE	S
E	REC; HR OFFICE	0.5	20	25				26	30	0	SPARE	S
E	REC; HR OFFICE	0.5	20	27				28	30	0	SPARE	S
E	REC; HR OFFICE	0.5	20	29				30	30	0	SPARE	S
E	REC; HR OFFICE	0.5	20	31				32	30	0	SPARE	S
E	SPARE	0	20	33				34	30	0	SPARE	S
E	SPARE	0	20	35				36	30	0	SPARE	S
E	SPARE	0	20	37				38	20	0	SPARE	S
E	SPARE	0	20	39				40	20	0	SPARE	S
E	SPARE	0	20	41				42	20	0	SPARE	S

A PH = 3.80 | B PH = 3.30 | C PH = 3.10

SERVES	CONN LOAD		FACTOR		FEED	DIVERSITY		KVAD	PANEL KVAD
LIGHTING	0.00	x	1.25	=	0.00	x	=		
RECEPT	10.20	x	*	=	10.10	x	=		
MISC EQUIP	0.00	x	1.00	=	0.00	x	=		
A/C	0.00	x	1.00	=	0.00	x	=		
HEATING	0.00	x	1.00	=	0.00	x	=		
LARGEST MOTOR	0.00	x	1.25	=	0.00	x	=		
OTHER MOTORS	0.00	x	1.00	=	0.00	x	=		
OTHER	0.00	x	1.00	=	0.00	x	=		
SPARE					25.88				
TOTALS	10.20 KVA				35.98 KVA				

* PER N.E.C. TABLE 220.44

EXISTING PANEL

PANEL: D2 | AIC RATING: EXIST AMPS | SERVICE: 120/208 V., | 3PH,4W | MLO: 150 AMPS | MCB: 0 AMPS

	DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION	
S	SPARE	0	20	1				2	20	0.6	EQ; DOOR CONTROLLERS	E
S	SPARE	0	20	3				4	20	0	SPARE	S
S	SPARE	0	20	5				6	20	0	SPARE	S
S	SPARE	0	20	7				8	20	1.1	REC; GEN PURPOSE	E
S	SPARE	0	20	9				10	20	0.9	REC; GEN PURPOSE	E
S	SPARE	0	20	11				12	20	0.7	EQ; EWC	E
S	SPARE	0	20	13				14	20	1.5	EQ; HAND DRYER	E
E	REC; GEN PURPOSE	0.7	20	15				16	20	1.5	EQ; HAND DRYER	E
E	REC; GEN PURPOSE	1.1	20	17				18	20	1	REC; COPIER	E
E	REC; ID/PHOTO	0.6	20	19				20	20	1.1	REC; GEN PURPOSE	E
E	REC; REFRIGERATOR	0.5	20	21				22	20	1.1	REC; GEN PURPOSE	E
E	REC; TOASTER	0.5	20	23				24	20	1	REC; COPIER	E
E	REC; MICROWAVE	0.5	20	25				26	20	0.9	REC; GEN PURPOSE	E
E	REC; MICROWAVE	0.5	20	27				28	20	0.6	REC; COPY/SUPPLY	E
E	REC; GEN PURPOSE	0.9	20	29				30	20	1	REC; COPIER	E
N	EQ; HAND DRYER	1.5	20	31				32	20	0.9	REC; GEN PURPOSE	N
N	EQ; HAND DRYER	1.5	20	33				34	20	0.5	REC; TV	N
N	REC; COPIER	1	20	35				36	20	0.6	REC; BREAK ROOM	N
N	REC; COPY/SUPPLY	0.6	20	37				38	20	0	SPARE	S
N	REC; GEN PURPOSE	0.7	20	39				40	20	0	SPARE	S
N	REC; GEN PURPOSE	0.7	20	41				42	20	0	SPARE	S

A PH = 9.30 | B PH = 8.50 | C PH = 8.50

SERVES	CONN LOAD		FACTOR		FEED	DIVERSITY		KVAD	PANEL KVAD
LIGHTING	0.00	x	1.25	=	0.00	x	=		
RECEPT	19.00	x	*	=	14.50	x	=		
MISC EQUIP	7.30	x	1.00	=	7.30	x	=		
A/C	0.00	x	1.00	=	0.00	x	=		
HEATING	0.00	x	1.00	=	0.00	x	=		
LARGEST MOTOR	0.00	x	1.25	=	0.00	x	=		
OTHER MOTORS	0.00	x	1.00	=	0.00	x	=		
OTHER	0.00	x	1.00	=	0.00	x	=		
SPARE					32.18				
TOTALS	26.30 KVA				53.98 KVA				

* PER N.E.C. TABLE 220.44

E = EXISTING CIRCUIT TO REMAIN.
N = NEW BREAKER AND CIRCUIT.
R = REUSE EXISTING CIRCUIT BREAKER TO FEED NEW CIRCUIT.
S = SPARE OUT EXISTING BREAKER. REMOVE ALL ABANDONED CONDUCTORS AND CONDUIT.
D = REMOVE EXISTING CIRCUIT BREAKER AND PROVIDE NEW BREAKER, CONDUIT AND WIRE.
DS = REMOVE EXISTING CIRCUIT BREAKER AND PROVIDE NEW SPARE BREAKER.

ALL PANELBOARDS SHALL BE ACCURATELY LABELED AND NUMBERED TO IDENTIFY FINAL CIRCUIT NUMBERS UTILIZED, THEIR LOAD AND LOCATION.

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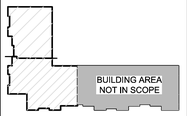
Florida Engineering Business Number 6093

NOT FOR CONSTRUCTION
ROBERT C. ANSTON, P.E. 40858
TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE 2014 FLORIDA BUILDING CODE



HILLSBOROUGH COUNTY
SHERIFF'S DEPARTMENT
RENOVATIONS
PINEBROOK BUSINESS PARK

PROJECT #: 1505-00	
DISTRIBUTION	DATE
CD CHECK SET	10/15/15
100% CONST. DOCS	11/16/15

ELECTRICAL PANEL SCHEDULES

E602

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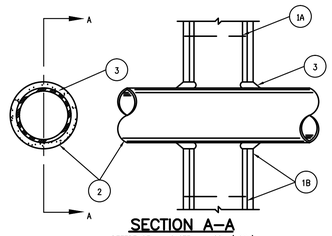
Plotted by: Andrew Nov 16, 2015 - 3:22pm



SECTION A–A

REFERENCE: UL SYSTEM WL1001 (1994)

① WALL ASSEMBLY THE 1,2,3 OR 4HR FIRE–RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS–WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2X4. LUMBER SPACED 16" O.C. WITH NOM 2X4". LUMBER END PLATES & CROSS BRACES. STEEL STUDS TO BE MIN 3–5/8" WIDE BY 1–3/8" DEEP CHANNELS SPACED MAX 24" O.C.

B. WALLBOARD GYPSUM*–NOM 1/2 OR 5/8" THICK, 4' WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LEAVERS, FASTENER TYPE & SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 13–1/2".

② PIPE OR CONDUIT–NOM 12" DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 6" DIAM (OR SMALLER) STEEL CONDUIT, NOM 4" DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR TYPE L OR (OR HEAVIER) COPPER TUBING OR NOM 1" DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE OR FLEXIBLE STEEL CONDUIT IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 H. STEEL PIPES OR CONDUITS LARGER THAN NOM 4" DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH & TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

③ FILL VOID OR CAVITY MATERIAL*–CAULK–CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT & GYPSUM GYPSUM WALLBOARD & WITH A MIN 1/4" DIAM BRAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDANT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDANT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT & THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAX PIPE OR CONDUIT DIAM, IN.	ANNULAR SPACE, IN.	F RATING, HR.	T RATING, HR.
1	0 TO 3/16	1 OR 2	0+, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

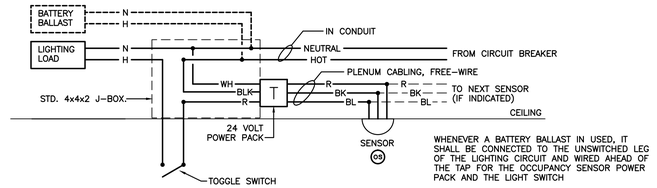
WHEN COPPER PIPE IS USED, T RATING IS 0 H.

MINNESOTA MINING & MFG. CO.–TYPES CP–25 S/L, CP–25 WB, CP–25 WB+. (NOTE: L RATINGS APPLY ONLY WHEN TYPE CP–25 WB+ CAULK IS USED).

*BEARING THE UL CLASSIFICATION MARKING.

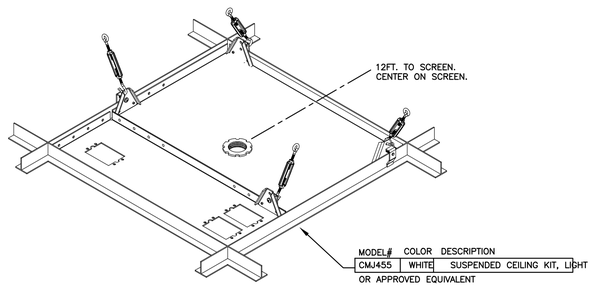
FIRE–RATED WALL PENETRATION DETAIL FOR PIPE OR CONDUIT

NOT TO SCALE



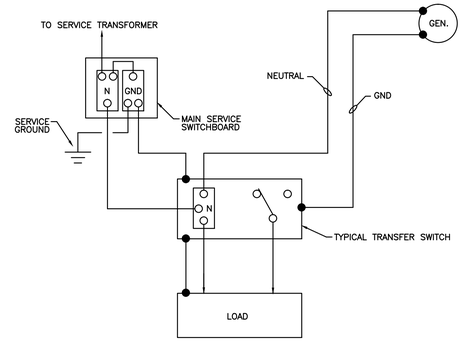
TYPICAL CEILING MOUNT OCCUPANCY SENSOR WIRING DIAGRAM

NOT TO SCALE



PROJECTOR CEILING PLATE DETAIL

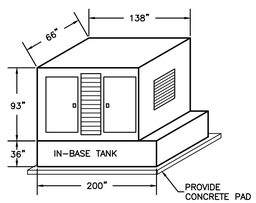
NOT TO SCALE



NOTE: SEE RISER FOR CONDUCTOR SIZES.

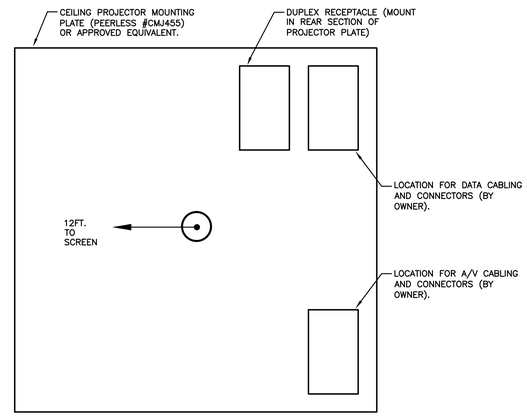
EMERGENCY SYSTEM GROUNDING

NOT TO SCALE



GENERATOR ELEVATION

NOT TO SCALE



PROJECTOR VIDEO SYSTEM RISER DIAGRAM

NOT TO SCALE

NOTES:
1. PROJECTOR PLATE SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR.

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ROBERT C. ANSTON, P.E. 40858
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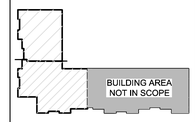

HILLSBOROUGH COUNTY
SHERIFF'S DEPARTMENT
P.O BOX 3371

HILLSBOROUGH COUNTY SHERIFF'S
DEPARTMENT RENOVATIONS
PINEBROOK BUSINESS PARK

PROJECT #: 1505-00	
DISTRIBUTION	DATE
CD CHECK SET	10/15/15
100% CONST. DOCS	11/16/15

ELECTRICAL DETAILS

E701

Drawing File: i:\15xxx\15042.001\15042x701.dwg E701
Plotted by: Andrew Nov 16, 2015 - 3:22pm