INTERIOR IMPROVEMENTS FOR:

GREEN CROSS PLASMAPHERESIS CENTER

419 E. UNIVERSITY DRIVE
EDINBURG, TEXAS 78539 HIDALGO COUNTY

TENANT/PROJECT OWNER

GCAM, INC.
1561 E. ORANGETHORPE AVE., SUITE 205
FULLERTON, CALIFORNIA 92831 (714) 738-6462

ARCHITECT

CASLER DESIGN GROUP, INC.
10805 INDECO DRIVE
CINCINNATI, OHIO 45241 (513) 791-0456

MEP ENGINEER

P.E. SERVICES
9 NORTH BROADWAY
LEBANON, OHIO 45036 (866) 997-0600

STRUCTURAL ENGINEER

MENDOZA ENGINEERING, P.L.L.C.
6316 N. 10TH STREET, SUITE 101 BUILDING A
MCALLEN, TX 78504 (956) 631-4906

ARCHITECTURAL GRAPHIC SYMBOLS

ROOM NAME / # — ROOM TITLE, ROOM NUMBER
DEMO NOTE NUMBER
KEYNOTE NUMBER
WALL TYPE NOTATION
COLUMN REFERENCE
WORK POINT ELEVATION
SECTION OR DETAIL DRAWING NUMBER
DOOR NUMBER
REVISION NUMBER
XX-# — FINISH OR FLOOR HEIGHT NOTATION
100 — WINDOW NOTATION
DOOR INTENDED FOR MEANS OF EGRESS
ELEVATION MARKER
SEALANT / CAULKING

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE	MAX	MAXIMUM
ADJ	ADJACENT / ADJUSTABLE	MFG	MANUFACTURER
AFF	ABOVE FINISH FLOOR	MIN	MINIMUM
ALT	ALTERNATE	MISC	MISCELLANEOUS
ALUM	ALUMINUM	MO	MASONRY OPENING
APPROX	APPROXIMATE-LY	MS	MOP SINK
BLKG	BLOCKING	MTD	MOUNTED
CER	CERAMIC	MTG	MOUNTING
CJ	CONTROL JOINT	MTL	MATERIAL
CL	CENTERLINE	N/A	NOT APPLICABLE
CLG	CEILING	NIC	NOT IN CONTRACT
CLR	CLEAR	NO	NUMBER
CMU	CONCRETE MASONRY UNITS	NON-COM	NON-COMBUSTIBLE
CONC	CONCRETE	NTS	NOT TO SCALE
CONT	CONTINUOUS	OC	ON CENTER
CONTR	CONTRACTOR	OPNG	OPENING
CPT	CARPET	P LAM	PLASTIC LAMINATE
CT	CERAMIC TILE	PART	PARTITION
CTR	CENTER	PLYWD	PLYWOOD
DIM	DIMENSION	PNL	PANEL
DN	DOWN	PR	PAIR
DR	DOOR	PTD	PAINTED
DS	DOWNSPOUT	QT	QUARRY TILE
DTL	DETAIL	RD	ROOF DRAIN
DWG	DRAWING	RO	ROUGH OPENING
EA	EACH	REINF	REINFORCING
EJ	EXPANSION JOINT	REQD	REQUIRED
ELEV	ELEVATION	REV	REVISION
EQ	EQUAL	REF	REFRIGERATOR
EWC	ELECTRIC WATER COOLER	RM	ROOM
EXIST	EXISTING	ROW R/W	RIGHT OF WAY
EXP	EXPANSION	SAB	SOUND ATTENUATION BATT.
EXT	EXTERIOR	SCHED	SCHEDULE
FD	FLOOR DRAIN	SECT	SECTION
FEC	FIRE EXTINGUISHER CABINET	SF	SQUARE FEET
FLR / FL	FLOOR	SHT	SHEET
FND	FOUNDATION	SIM	SIMILAR
FRTW	FIRE-RETARDANT TREATED WOOD	SM	SHEET METAL
FTG	FOOTING	SS	STAINLESS STEEL
FURR	FURRING	STD	STANDARD
FV	FIELD VERIFY	STRUCT	STRUCTURAL
GA	GAUGE	SUSP	SUSPENDED
GALV	GALVANIZED	T	TREAT
GYP. BD.	GYPSUM BOARD	TMPR'D	TEMPERED
HC	HANDICAP	TYP	TYPICAL
HDWR	HARDWARE	U.N.O.	UNLESS NOTED OTHERWISE
HT / HGT	HEIGHT	VB	VINYL BASE
HM	HOLLOW METAL	VCT	VINYL COMPOSITION TILE
INSUL	INSULATION	W/	WITH
INT	INTERIOR	WC	WATER CLOSET
LAV	LAVATORY	WD	WOOD
MAS	MASONRY	WR	WATER RESISTANT
MATL	MATERIAL	WWF	WELDED WIRE FABRIC

GENERAL NOTES

1. ALL CONTRACTORS SHALL VISIT THE SITE AND THOROUGHLY ACQUAINT THEMSELVES WITH THE CONDITIONS IN THE FIELD, COMPLETELY REVIEW THESE DOCUMENTS AND FULLY UNDERSTAND THE NATURE AND SCOPE OF THE WORK TO BE PERFORMED. IN ADDITION, CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF MATERIAL DISCREPANCIES FOUND ON THE DRAWINGS OR ANY EXISTING CONDITIONS FOUND ON THE SITE WHICH CONFLICT WITH CONDITIONS AS SHOWN IN THE CONTRACT DOCUMENTS PRIOR TO COMMENCEMENT OF WORK. COMMENCEMENT OF WORK DENOTES ACCEPTANCE OF RESPONSIBILITY FOR THE WORK AND ASSOCIATED COSTS. NO SUBSEQUENT CLAIM BASED UPON DIFFERENCES BETWEEN ACTUAL CONDITIONS AND THOSE INDICATED WILL BE CONSIDERED.
2. DIMENSIONS, DETAILS, ETC. RELATING TO EXISTING CONDITIONS AND/OR OTHER EXISTING ITEMS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF THE WORK. ADDITIONALLY, CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATING OR RELOCATING ANY ITEMS TO BE INCORPORATED IN THE WORK.
3. DRAWINGS ARE NOT TO BE SCALED. LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS AND WHERE REQUIREMENTS OF TWO OR MORE STANDARDS APPLY, THE REQUIREMENTS OF THE MOST RESTRICTIVE SHALL APPLY.
4. DIMENSIONS ON FLOOR PLANS ARE INDICATED AS FOLLOWS:
   AT EXISTING WALLS: TAKEN FROM FACE OF WALL.
   AT NEW WALLS: SHOWN TO FACE OF STUDS, OR TO FACE OF MASONRY, UNLESS NOTED OTHERWISE.
5. PROVIDE SOLID WOOD BLOCKING IN STUD WALLS AS REQUIRED TO SUPPORT WALL-MOUNTED CABINETRY, COUNTERS, AND ALL OTHER COMPONENTRY. COMBUSTIBLE WOOD, NON TREATED IS ALLOWED FOR BLOCKING MATERIAL FOR HANDRAILS, MILLWORK, CABINETS, AND WINDOW AND DOOR FRAMES.
6. COORDINATE DEMOLITION AND CONSTRUCTION OPERATIONS WITH OWNER TO ALLOW FOR THE CONTINUED OPERATIONS OF AFFECTED TENANTS.
7. ALL DISTURBED AREAS CAUSED BY NEW OR REMODELED CONSTRUCTION WHICH IS NOT SPECIFICALLY NOTED TO RECEIVE NEW FINISHES SHALL BE REFINISHED TO MATCH EXISTING FINISH.
8. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION, INCLUDING DUST BARRIERS, TO PROTECT OCCUPIED AREAS OF THE BUILDING FROM DEMOLITION AND CONSTRUCTION DUST AND DEBRIS. ALL PROTECTIVE MEASURES AND DUST BARRIER LOCATIONS MUST BE APPROVED BY THE OWNER PRIOR TO INSTALLATION.
9. ALL SUSPENDED ITEMS SUCH AS CEILINGS, DUCTS, PIPES, CONDUITS, ETC. SHALL BE SUSPENDED DIRECTLY FROM EXISTING BUILDING STRUCTURE.
10. ALL MECHANICAL, ELECTRICAL AND PLUMBING WORK SHALL BE PERFORMED UNDER SEPERATE PERMIT UNLESS INDICATED OTHERWISE. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED SUBMITALLS AND INSPECTIONS.
11. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PORTIONS OF WORK, INCLUDING COORDINATING THE DUTIES OF ALL TRADES, UNLESS NOTED OTHERWISE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDITIONS AT THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK (AT ALL TIMES, NOT LIMITED TO NORMAL WORKING HOURS).
13. THE CONTRACTOR SHALL INSTALL MATERIALS, SUPPLIES AND EQUIPMENT PER MANUFACTURER'S CURRENT SPECIFICATIONS AND RECOMMENDATIONS.
14. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND GOVERNMENTAL FEES, LICENSES, INSPECTIONS, AND OTHER CONSENTS FOR GENERAL CONSTRUCTION NECESSARY FOR PROPER EXECUTION AND COMPLETION OF WORK, UNLESS NOTED OTHERWISE.
15. THE CONTRACTOR SHALL PROVIDE SEALANT AT ALL JOINTS BETWEEN ALL DISSIMILAR MATERIALS, WINDOW AND DOOR OPENINGS, MECHANICAL PENETRATIONS, EXPANSION JOINTS, ETC, AND WHERE INDICATED ON DRAWINGS TO ASSURE A COMPLETE WEATHER TITE ASSEMBLY.
16. PLUMBING SUPPLY PIPING SHALL BE INSTALLED FREE OF SAGS OR BENDS. INSTALL TANGENT TO BEAMS, JOISTS, COLUMNS, AND WALLS WITH ADEQUATE SPACE FOR INSULATION INSTALLATION. NO PIPING SHALL BE INSTALLED IN EXTERIOR WALLS.
17. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ARCHITECT / ENGINEER SHALL BE RESPONSIBLE FOR HIS/HER OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.

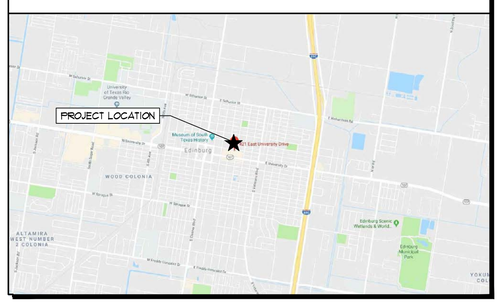
INDEX OF DRAWINGS

DWG. NO.	DESCRIPTION	ISSUE DATES: 03/07/2019
COVER SHEET		
T1.01	TITLE SHEET AND GENERAL NOTES	●
ARCHITECTURAL		
A0.01	SITE PLAN	●
A0.02	DEMOLITION PLAN AND NOTES	●
A1.00	LIFE SAFETY PLAN AND CODE NOTES	●
A1.01	FLOOR PLAN AND DETAILS	●
A1.02	ROOF PLAN AND DETAILS	●
A1.03	REFLECTED CEILING PLAN AND DETAILS	●
A2.01	ELEVATIONS	●
A3.01	WALL TYPES	●
A4.01	DETAILS	●
A5.01	TOILET ROOM PLANS AND ELEVATIONS	●
A6.01	DOOR SCHEDULE AND DETAILS	●
A7.01	FLOOR FINISH PLANS	●
A7.02	FINISH SCHEDULES	●
A7.03	CASEWORK PLANS	●
A7.11	CASEWORK ELEVATIONS	●
A7.12	CASEWORK ELEVATIONS	●
A7.13	CASEWORK ELEVATIONS	●
A7.21	CASEWORK SECTIONS AND DETAILS	●
A7.22	CASEWORK SECTIONS AND DETAILS	●
F1.01	F.F.&E. AND SECURITY PLAN	●
F1.02	SIGNAGE PLAN AND DETAILS	●
STRUCTURAL		
S1	GENERAL NOTES, ELEVATIONS AND DETAILS	●
S2	NEW OPENING / FRAMING PLAN	●
PLUMBING		
P0.01	PLUMBING COVER SHEET	●
P1.01	WASTE AND VENT PLAN	●
P2.01	WATER PLAN	●
P5.01	PLUMBING DETAILS	●
P6.01	PLUMBING SCHEDULES	●
P7.01	WASTE AND VENT ISOMETRIC	●

INDEX OF DRAWINGS

DWG. NO.	DESCRIPTION	ISSUE DATES: 03/07/2019
MECHANICAL		
M0.01	MECHANICAL COVER SHEET	●
M1.01	MECHANICAL FLOOR PLAN	●
M2.01	MECHANICAL ROOF PLAN	●
M5.01	MECHANICAL DETAILS	●
M6.01	MECHANICAL SCHEDULES	●
M6.02	MECHANICAL SCHEDULES	●
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ELECTRICAL		
E0.01	ELECTRICAL COVER SHEET	●
E1.01	ELECTRICAL LIGHTING PLAN	●
E2.01	ELECTRICAL POWER PLAN	●
E2.02	ELECTRICAL POWER PLAN	●
E2.03	DATA PLAN	●
E2.04	DATA PLAN	●
E5.01	ELECTRICAL DETAILS	●
E5.02	ELECTRICAL DETAILS	●
E6.01	ELECTRICAL SCHEDULES AND RISER DIAGRAM	●
E8.01	ENERGY CODE COMPLIANCE	●

VICINITY MAP



PROFESSIONAL SEAL

REGISTERED ARCHITECT — WILLIAM P. CASLER — 24530 — STATE OF TEXAS

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

GCAM Plasma

419 E. UNIVERSITY DRIVE
EDINBURG, TX 78539

ARCHITECT:

CASLER DESIGN GROUP, INC.
Architecture • Planning • Interior Design
10805 Indeco Drive • Cincinnati, Ohio 45241
(Phone) 513.791.0456 • (Fax) 513.792.7488

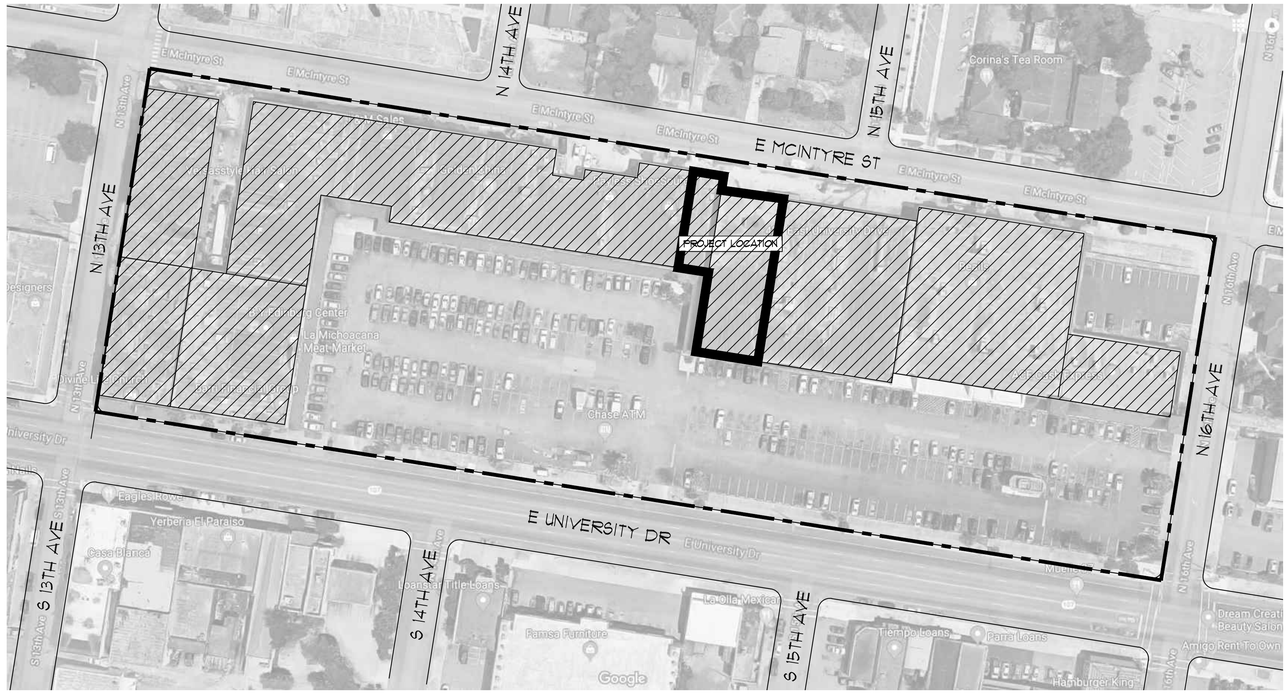
CONSULTANTS:

JOB NUMBER	2674.0010
DRAWN BY	SMK/FWK
CHECKED BY	SMK

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TITLE SHEET AND GENERAL NOTES

T1.01



STREETS, DRIVEWAYS, UNDERGROUND SERVICES, ETC. DAMAGED IN ANY WAY ATTRIBUTABLE TO DEMOLITION OR CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITIONS

1 A0.01 SITE PLAN
SCALE: NO SCALE

SITE NOTES

1. ALL CONDITIONS SHOWN ARE EXISTING. NO EXTERIOR SITE IMPROVEMENTS ARE PROPOSED EXCEPT FOR PAVEMENT MODIFICATIONS AT DOORS ON REAR OF BUILDING.
2. SITE PLAN HAS NOT BEEN FIELD VERIFIED BY CASLER DESIGN GROUP AND CANNOT GUARANTEE THE ACCURACY OF EXISTING CONDITIONS SHOWN.
3. REFER TO M.E.P. DOCUMENTS FOR CONNECTIONS TO EXISTING UTILITIES.
4. EXISTING PARKING TO REMAIN.
5. ZONING DISTRICT: DOWNTOWN DISTRICT DD
6. PROPERTY ID: 164887
7. PARCEL ID: E3300-00-234-0004-00
8. LEGAL DESCRIPTION: EDINBURG ORIGINAL TOWNSITE LOT 4 THRU 21 & E. 45'-9153'-LOT22 BLK 234 1 THRU 24 BLK 235 1 THRU 24 BLK 236
9. PROPERTY OWNER:
   B-Y EDINBURG CENTER LTD.
   4629 MARCO
   SAN ANTONIO, TX 78218
10. PROPERTY LINE

PROFESSIONAL SEAL

REGISTERED ARCHITECT
WILLIAM P. CASLER
24530
STATE OF TEXAS

ISSUED FOR:

PERMIT/BID	03/07/2019

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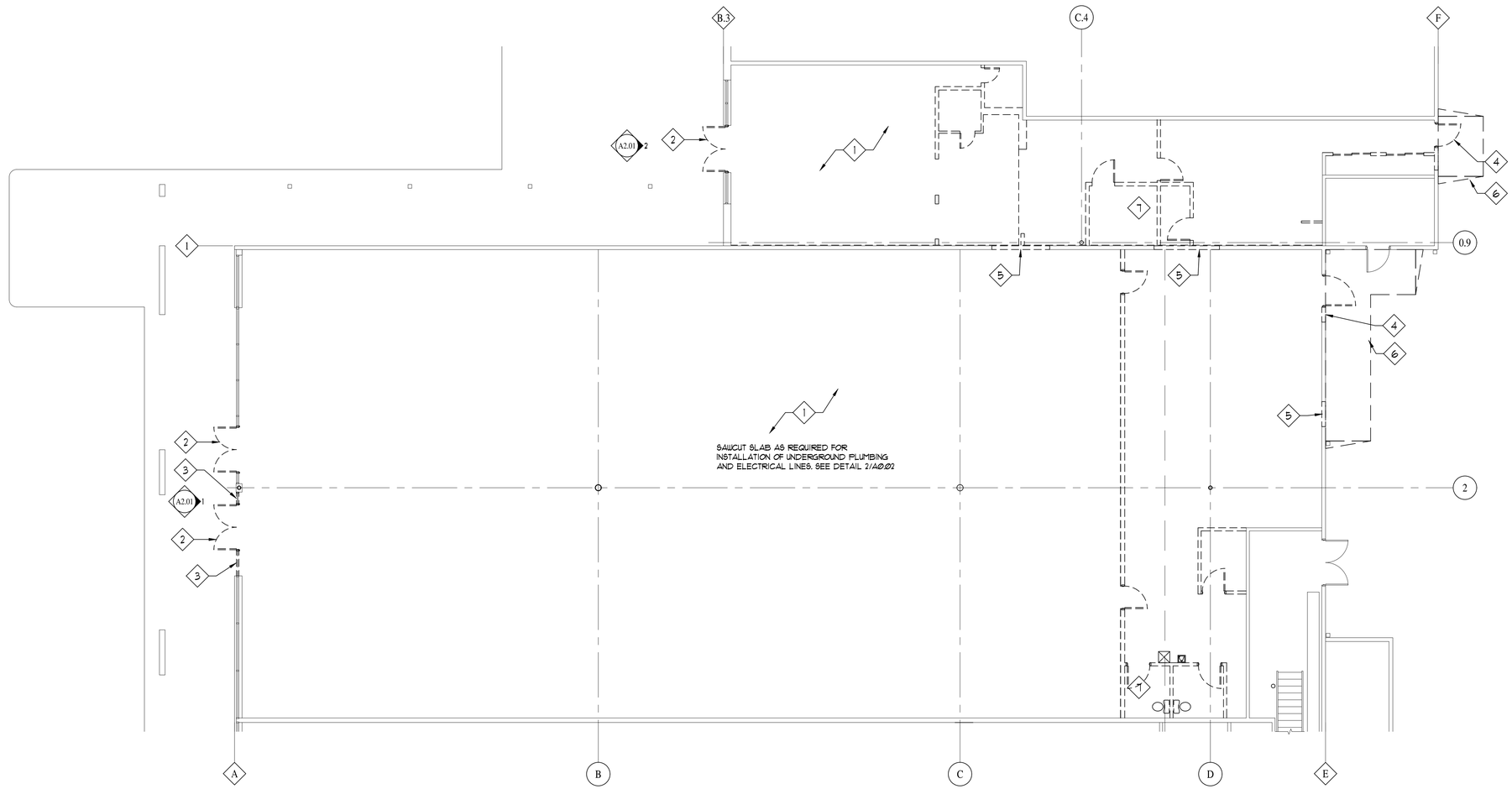
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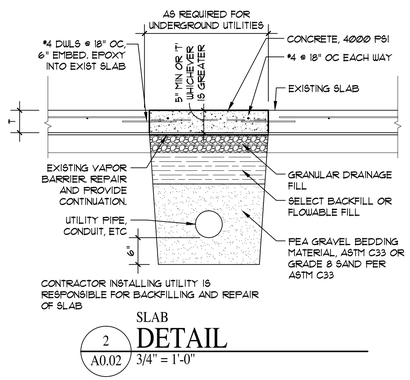
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SITE PLAN

A0.01



1 A0.02 DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



SLAB
2 A0.02 DETAIL
3/4" = 1'-0"

GENERAL DEMOLITION NOTES (BP-1 UNLESS NOTED OTHERWISE)

1. ALL DASHED ITEMS ON THE DEMOLITION PLAN TO BE REMOVED. REFER TO WALL LEGEND.
2. FIELD VERIFY EXTENT/LIMITS OF REQUIRED DEMOLITION WORK WITH EXISTING CONDITIONS AND PROPOSED NEW WORK.
3. ALL DEMOLITION WORK IS PART OF BID PACKAGE 1 (BP-1) WORK UNLESS NOTED OTHERWISE.
4. COORDINATE DEMOLITION WORK WITH WORK OF OTHER TRADES (STRUCTURAL, FIRE PROTECTION, MECHANICAL AND ELECTRICAL). REFER TO A, S, F, P, M & E- SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
5. ADDITIONAL AND MORE SPECIFIC DEMOLITION INFORMATION CAN BE FOUND THROUGHOUT THE DRAWINGS AND SPECIFICATIONS.
6. ALL DIMENSIONS ON THE DRAWINGS ARE TO BE CONFIRMED BY THE CONTRACTOR. ANY DISCREPANCIES ARE TO BE RESOLVED BY ARCHITECT PRIOR TO EXECUTION OF THE WORK.
7. THE ARCHITECT / ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF DEMOLITION AND/OR CONSTRUCTION SELECTED BY THE CONTRACTOR.
8. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ARCHITECT / ENGINEER SHALL BE RESPONSIBLE FOR HIS/HER OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ALL BUILDING SPACES CAUSED BY THEIR ACTIONS OR NEGLECT.
10. STREETS, DRIVEWAYS, UNDERGROUND SERVICES, ETC. DAMAGE IN ANY WAY ATTRIBUTABLE TO DEMOLITION OR CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITIONS.
11. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE AND MAINTAIN ALL NECESSARY TEMPORARY BARRICADES, SHORING AND LIGHTING. CONTRACTOR IS TO ERECT BARRIERS TO PROTECT OCCUPIED AREAS IN AND AROUND THE BUILDING DURING DEMOLITION AND CONSTRUCTION AS MAY BE REQUIRED. THE CONTRACTOR SHALL PROVIDE AND INSTALL BARRICADES AND TEMPORARY SIGNAGE, AS REQUIRED TO DIRECT OCCUPANT FLOW AS REQUIRED AND TO ESTABLISH ROUTES OF EGRESS FOR EMPLOYEES. COMPLY WITH REQUIEMENTS OF AUTHORITIES HAVING JURISDICTION.
12. THE CONTRACTOR IS RESPONSIBLE FOR CLEAN-UP AND REMOVAL OF DEBRIS CAUSED BY PERFORMANCE OF WORK AND TO MAINTAIN THE SAFETY OF THE SITE AND WORK IN CONFORMANCE WITH ALL APPLICABLE LAWS AND IN ORDER TO AVOID DELAYS IN THE WORK OF OTHER CONTRACTORS. NO BURNING IS PERMITTED. ALL CLEAN-UP REQUIRED SHALL BE TO THE SATISFACTION OF THE OWNER. PROVIDE SUFFICIENT QUANTITY OF WASTE CONTAINERS FOR COLLECTION OF WASTE MATERIALS, RUBBISH AND DEBRIS. COORDINATE DUMPSTER LOCATION WITH THE OWNER.
13. UNLESS OTHERWISE INDICATED, DEMOLISHED MATERIALS BECOME CONTRACTOR'S PROPERTY. REMOVE FROM PROJECT SITE. DISPOSE OF ALL DEMOLITION MATERIALS IN LEGAL MANNER AND COMPLY WITH EPA REGULATIONS AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
14. ITEMS INDICATED TO BE REMOVED AND SALVAGED REMAIN OWNER'S PROPERTY. REMOVE, CLEAN, AND DELIVER TO OWNER'S DESIGNATED STORAGE AREA ON PREMISES.
15. IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB. IMMEDIATELY NOTIFY ARCHITECT AND OWNER. HAZARDOUS MATERIALS WILL BE REMOVED BY OWNER.
16. UTILITY SERVICES: MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED ADJACENT FACILITIES, EXCEPT WHEN AUTHORIZED IN ADVANCE BY OWNER. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO GOVERNING AUTHORITIES.
17. IF UNANTICIPATED MECHANICAL, ELECTRICAL OR STRUCTURAL ELEMENTS WHICH CONFLICT WITH INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, INVESTIGATE AND MEASURE BOTH NATURE AND EXTENT OF THE CONFLICT. SUBMIT REPORT TO PROJECT MANAGER IN WRITTEN, ACCURATE DETAIL. PENDING RECEIPT OF DIRECTIVE FROM PROJECT MANAGER, REVISE SELECTIVE DEMOLITION SCHEDULE AS NECESSARY AND CONTINUE OVERALL JOB PROGRESS WITHOUT DELAY.
18. PROTECT CONSTRUCTION TO REMAIN. PROMPTLY PATCH AND REPAIR HOLES AND DAMAGED SURFACES OF BUILDING CAUSED BY DEMOLITION. RESTORE EXPOSED FINISHES OF PATCHED AREAS AND EXTEND FINISH RESTORATION INTO REMAINING ADJOINING CONSTRUCTION.
19. REMOVE ALL ELECTRICAL CONDUIT, CABLING, OUTLETS, JUNCTION BOXES, SWITCHES, ETC. THROUGHOUT THE BUILDING BACK TO ELECTRICAL PANEL (BP-1). ADDITIONAL DEMOLITION REQUIRED FOR ELECTRICAL WORK SHALL BE PERFORMED BY BP-22 CONTRACTOR, UNLESS NOTED OTHERWISE. COORDINATE WITH ELECTRICAL DOCUMENTS.

WALL LEGEND

= = = = INDICATES CONSTRUCTION TO BE REMOVED

INDICATES EXISTING CONSTRUCTION TO BE LEFT UNDISTURBED

DEMO NOTES

1. REMOVE CEILINGS, LIGHT FIXTURES, AIR DEVICES, DUCTWORK, SECURITY CAMERAS, SIGNS THROUGHOUT THE WORK AREA.
2. REMOVE STOREFRONT DOORS.
3. REMOVE PORTIONS OF STOREFRONT AS REQUIRED FOR MODIFICATIONS.
4. REMOVE PORTION OF EXISTING WALL AND DOOR FOR NEW DOOR AND FRAME.
5. REMOVE PORTION OF EXISTING WALL FOR NEW OPENING. STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. REMOVE EXISTING PAVEMENT AS REQUIRED FOR INSTALLATION OF CONCRETE PAD.
7. REMOVE PLUMBING FIXTURES AND CAP DRAIN LINES BELOW FLOOR. PATCH FLOOR SUITABLE TO RECEIVE NEW FLOOR FINISHES.

PROFESSIONAL SEAL

REGISTERED ARCHITECT WILLIAM P. CASLER 24530 STATE OF TEXAS

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

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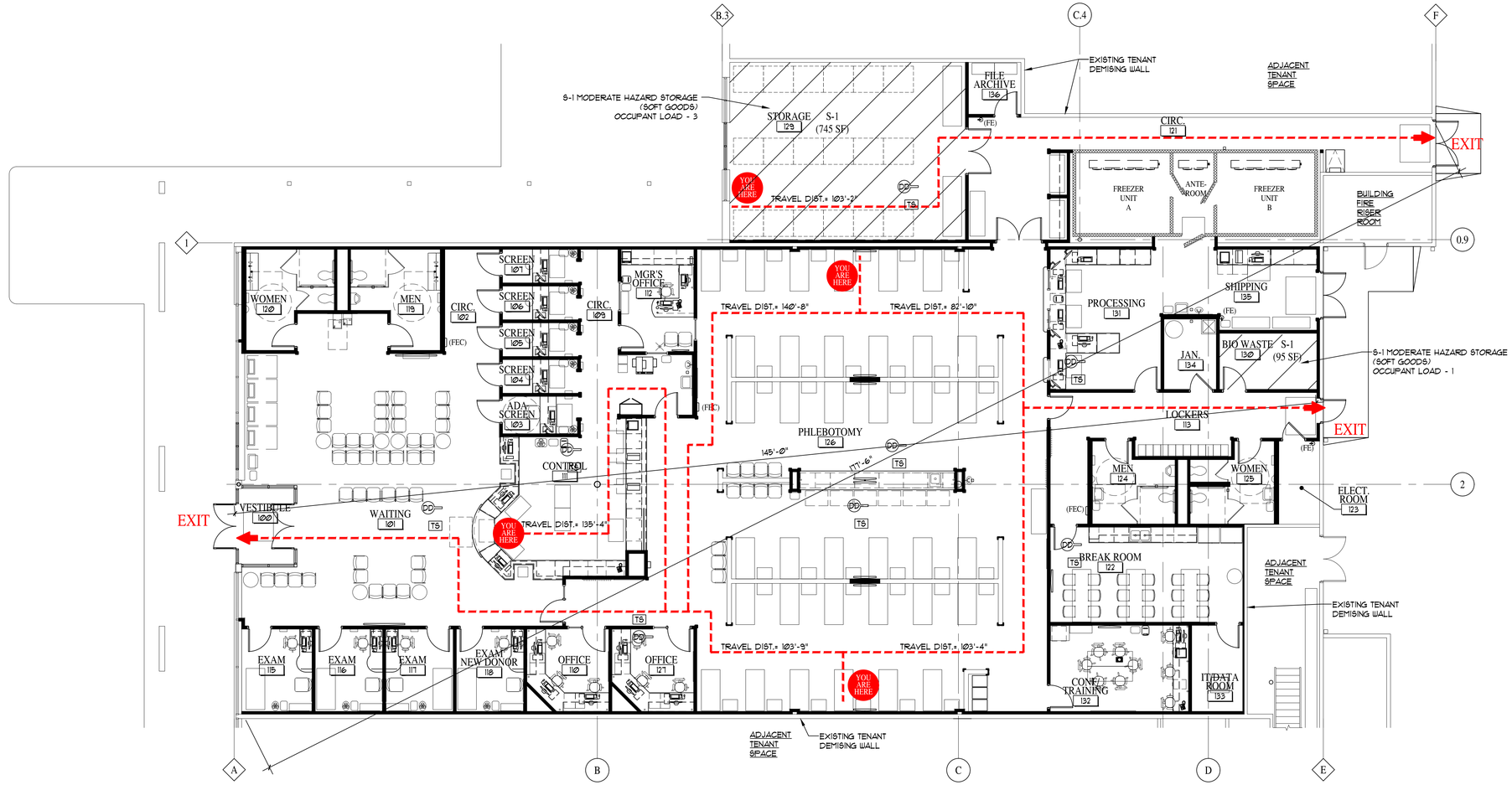
CONSULTANTS:

JOB NUMBER	2674.0010
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DEMOLITION PLAN AND NOTES

A0.02



1 A1.00 LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

LEGEND

(FE) FIRE EXTINGUISHER 2A10ABC, SURFACE MOUNT BRACKET: JL INDUSTRIES MB8I8A (BP-18)

(FEC) FIRE EXTINGUISHER 2A10ABC, SEMI-RECESSED CABINET: JL INDUSTRIES "COSMOPOLITAN" 8137V10, STAINLESS STEEL (BP-18)

INDICATES EXISTING CONSTRUCTION TO BE LEFT UNDISTURBED

INDICATES NEW WALL CONSTRUCTION

DD DUCT DETECTOR

TS TEST SWITCH

BUILDING CODE NOTES

PROJECT SUMMARY:
PROJECT IS A PROPOSED PLASMAPHERESIS CENTER IN A TENANT LEASE SPACE IN AN EXISTING SINGLE STORY BUILDING.

1. ALL WORK SHALL BE DONE IN AN APPROVED WORKMANLIKE MANNER AND SHALL BE IN COMPLIANCE WITH GOVERNING CODES AND REGULATORY AGENCIES.
2. REFER TO STRUCTURAL, PLUMBING, MECHANICAL (HVAC) AND ELECTRICAL DOCUMENTS FOR ADDITIONAL CODE & REQUIREMENT INFORMATION.

PER THE 2012 INTERNATIONAL BUILDING CODE:

USE GROUP(S): B, S-1
(STORAGE ROOM AND BIO-WASTE ROOM ARE USE GROUP S-1)

CONSTRUCTION TYPE:
EXISTING BUILDING IS TYPE 2-B CONSTRUCTION, FULLY SPRINKLERED

AREA OF TENANT LEASE SPACE: 10,672 SF
B USE AREA: 9,832 SF
S-1 USE AREA (ACCESSORY): 840 SF (7.8%)

ALL NEW CONSTRUCTION MATERIALS SHALL BE NON-COMBUSTIBLE.

COMBUSTIBLE MATERIALS PERMITTED IN TYPE I OR II CONSTRUCTION:
SOLID WOOD BLOCKING IN STUD WALLS AS REQUIRED TO SUPPORT WALL-MOUNTED CABINETRY, COUNTERS, AND OTHER COMPONENTRY.
1) SECTION 603.1 (EXCEPTION 14) COMBUSTIBLE WOOD, NON TREATED IS ALLOWED FOR BLOCKING MATERIAL FOR HANDRAILS, MILLWORK, CABINETS, AND WINDOW AND DOOR FRAMES. BLOCKING SPECIFIED ON THIS PROJECT SATISFIES THIS REQUIREMENT.

ALL CONCEALED AND EXPOSED INSULATION SHALL MEET THE MINIMUM FLAME SPREAD AND SMOKE DEVELOPED RATINGS REQUIRED BY SECTIONS 720.2 AND 720.3.

INTERIOR FINISHES (MIN PER TABLE 803.9.):	USE GROUP B	GROUP S-1
EXIT ENCLOSURE AND EXIT PASSAGE PASSAGEWAYS:	CLASS B	CLASS C
CORRIDORS:	CLASS C	CLASS C
ROOMS AND ENCLOSED SPACES	CLASS C	CLASS C
INTERIOR FLOOR FINISHES:	SHALL COMPLY WITH DOC FF-1 "PILL TEST" (SECTION 804.4.1)	

FIRE PROTECTION SYSTEMS:

EXISTING BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM. FIRE PROTECTION DOCUMENTATION FOR MODIFICATIONS TO EXISTING SYSTEM SHALL BE SUBMITTED BY THE FIRE PROTECTION SYSTEM CONTRACTOR SELECTED FOR THE WORK.

FIRE EXTINGUISHERS SHALL BE SURFACE MOUNTED AND LOCATED AS REQUIRED BY LOCAL FIRE AND BUILDING CODE OFFICIAL. FINAL LOCATION TO BE APPROVED BY AHJ.

EGRESS REQUIREMENTS:
OCCUPANT LOAD:
USE GROUP B, 1/100 SF GROSS: 10,672 / 100 = 107
USE GROUP S-1, 1/300 SF GROSS: 840 / 300 = 3
TOTAL OCCUPANT LOAD: 110

REQUIRED EGRESS WIDTH: 110 X .2" = 22.0"
WIDTH PROVIDED: ENTRY/EXIT DOORS 4 2 EXIT DOORS = 108"

REMOTENESS OF EXITS (SPRINKLERED): 1/3 MAX OF OVERALL DIAGONAL (177.5') = 88.75'
DIST. BETWEEN FRONT & REAR EXITS = 145'

COMMON PATH OF EGRESS TRAVEL: 100' (WITH SPRINKLER SYSTEM)

MAX TRAVEL DISTANCE: 300' (WITH SPRINKLER SYSTEM)

MINIMUM NUMBER OF EXITS: (1) FOR OCC. LOAD OF 49 OR LESS
(2) FOR OCC. LOAD GREATER THAN 49
3 EXITS PROVIDED

MINIMUM CORRIDOR WIDTH: 36" FOR OCC. LOAD OF 49 OR LESS
44" FOR OCC. LOAD GREATER THAN 49

DEAD END CORRIDOR: 50' (WITH SPRINKLER SYSTEM)

PLUMBING FIXTURE REQUIREMENTS (55 MALES, 55 FEMALES)

	REQUIRED	PROVIDED
WATER CLOSETS (MALE)	3	1 (+ 1 URINAL) PUBLIC, AND 1 (+ 1 URINAL) EMPLOYEE
WATER CLOSETS (FEMALE)	3	2 PUBLIC, 2 EMPLOYEE
LAVATORIES (MALE)	2	2 PUBLIC, 1 EMPLOYEE
LAVATORIES (FEMALE)	2	2 PUBLIC, 1 EMPLOYEE
DRINKING FOUNTAINS	2	2 (ONE DUAL HI-LO BARRIER FREE EWC) + BOTTLED WATER
SERVICE SINKS	1	1
HAND WASH LAVATORIES	0	3 EMPLOYEE

APPLICABLE BUILDING CODES

2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL FUEL GAS CODE
2012 INTERNATIONAL FIRE CODE
2011 NATIONAL ELECTRIC CODE
2009 INTERNATIONAL ENERGY CONSERVATION CODE

FIRE SPRINKLER NOTES

A. EXISTING SPRINKLER SYSTEM SHALL BE MODIFIED BY FIRE PROTECTION CONTRACTOR TO FIT NEW TENANT LAYOUT AND IS RESPONSIBLE FOR CREATING AND SUBMITTING DRAWINGS TO LOCATE SPRINKLER HEADS AND RELATED DEVICES AS REQUIRED TO MEET STATE AND LOCAL CODES.

B. FIRE PROTECTION CONTRACTOR TO PROVIDE CONSTRUCTION MANAGER WITH A FULL SET OF SHOP DRAWINGS, SPECIFICATIONS, MATERIALS LIST, PRODUCT CUT SHEETS, AND ANY OTHER ITEMS REQUIRED PER REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION FOR OWNER REVIEW BEFORE APPLYING FOR THE FIRE SPRINKLER PERMIT.

C. ALL ITEMS NEEDED FOR SPRINKLER PERMIT SHALL BE PROVIDED BY FIRE PROTECTION.

D. FOR EXACT LOCATIONS OF MOTORS AND ASSOCIATED ELECTRICAL EQUIPMENT, REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DOCUMENTS.

E. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH OTHER TRADES, BUILDING OWNER, CONSTRUCTION MANAGER, AND SYSTEM VENDOR.

F. ALL CONTROL, SIGNAL, MONITORING AND ANNUNCIATING WIRING AND CONDUIT SHALL CONFORM TO EQUIPMENT MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS, AND SHALL BE AS REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM.

G. PERFORM ALL NECESSARY BUILDING AND FIRE DEPARTMENT FILINGS. WORK SHALL NOT BE CONSIDERED COMPLETE UNLESS ALL NECESSARY FILING, TESTS, AND INSPECTIONS ARE COMPLETED AND APPROVED.

PROFESSIONAL SEAL

REGISTERED ARCHITECT WILLIAM P. CASLER 24530 STATE OF TEXAS

ISSUED FOR:
PERMIT/BID 03/07/2019

INTERIOR IMPROVEMENTS FOR:

GCAM Plasma
419 E. UNIVERSITY DRIVE
EDINBURG, TX 78539

ARCHITECT:

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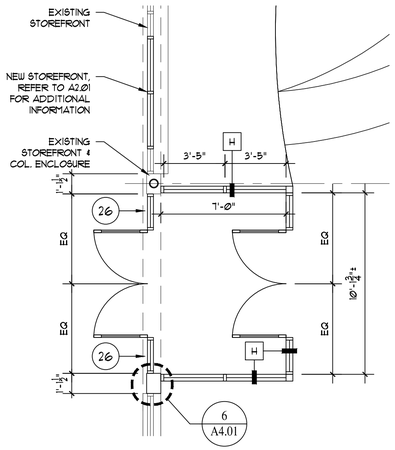
CONSULTANTS:

JOB NUMBER 2674.0010
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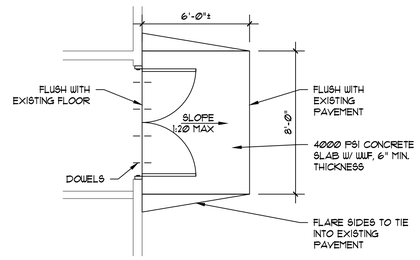
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LIFE SAFETY PLAN AND CODE NOTES

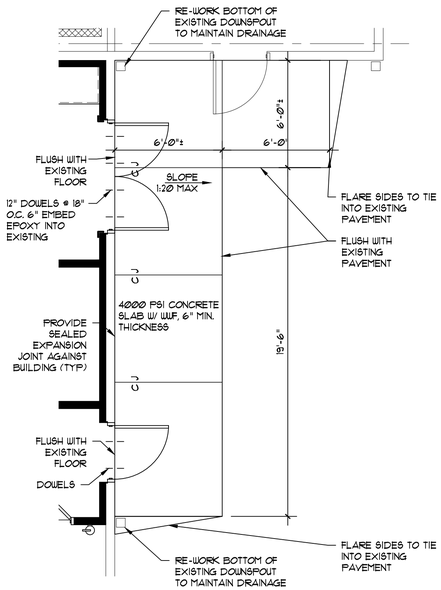
A1.00



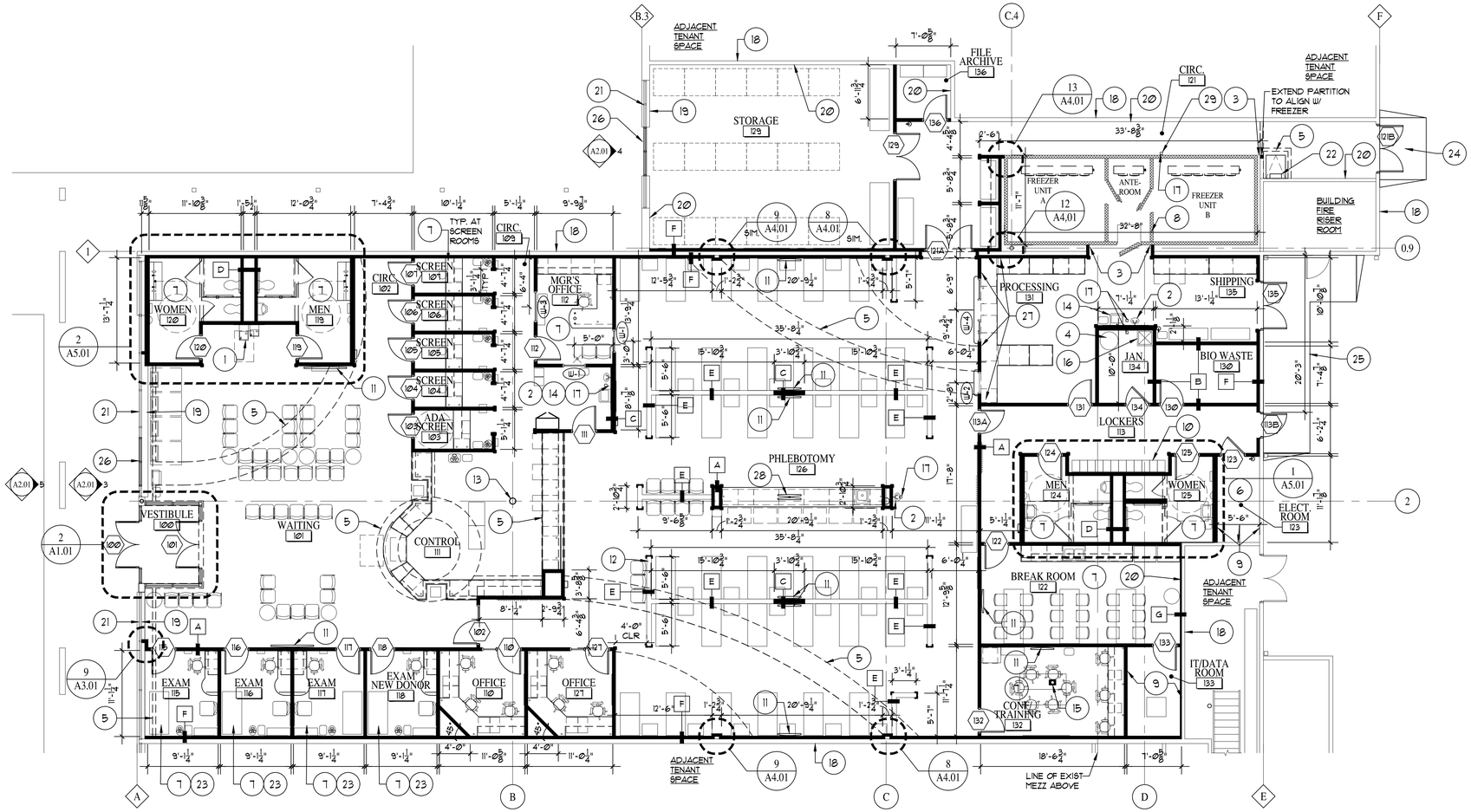
ENLARGED
FLOOR PLAN
2 / A1.01 SCALE: 1/4" = 1'-0"



ENLARGED
PLAN
3 / A1.01 SCALE: 1/4" = 1'-0"



ENLARGED
PLAN
4 / A1.01 SCALE: 1/4" = 1'-0"



FLOOR PLAN
1 / A1.01 SCALE: 1/8" = 1'-0"

DRAWING NOTES

A. ALL APPLIANCES, EQUIPMENT AND FURNITURE SHALL BE PROVIDED BY TENANT UNLESS OTHERWISE NOTED.

B. IT WILL BE THE RESPONSIBILITY OF THE TENANT TO MOVE ALL FURNITURE, PERSONAL ITEMS, COMPUTER AND ELECTRONIC EQUIPMENT.

C. VINYL CORNER GUARD WALL PROTECTION (WP) AS NOTED W/ ▙ AT CORNERS. SEE DETAILS 16 & 18/A4.01. (BP-18)

D. EDGE OF DOOR(S) TO BE LOCATED 6" OFF ADJACENT WALL, UNLESS NOTED OTHERWISE.

E. BID PACKAGE 13 CONTRACTOR TO PROVIDE ALL CONCEALED WOOD BLOCKING IN PARTITIONS REQUIRED TO ACCOMMODATE INSTALLATION OF ALL DOOR AND WINDOW FRAMES, CASEWORK, FIXTURES, AND EQUIPMENT FOR THE PROJECT. COORDINATE BLOCKING LOCATIONS WITH THE TENANT AND OTHER CONTRACTORS. REFER TO DETAIL 1/A4.01, AND THE FIXTURE PLAN ON SHEET FI01 FOR ADDITIONAL INFORMATION.

F. PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT WET WALLS 2'-0" EACH SIDE OF FIXTURE x 4'-0" HIGH MINIMUM UNLESS NOTED OTHERWISE. DO NOT PRIME / PAINT AT LOCATIONS TO RECEIVE SANITARY PROTECTION PANELS.

G. WINDOW TREATMENT: MANUAL ROLLER SHADE AS MANUFACTURED BY DRAPER

H. FABRIC: PHIFER SHEARWEAVE 2400/2500/2600 OYSTER BEIGE

I. OPENESS FACTOR: 5%

J. FASCIA SIZE: 3"

K. CONTRACTOR TO FIELD VERIFY DIMENSIONS OF WINDOWS AND CONFIRM FABRIC SELECTION AND OPENESS FACTOR WITH OWNER AND ARCHITECT PRIOR TO ORDERING.

L. REFER TO A1.00 LIFE SAFETY PLAN FOR FIRE EXTINGUISHER AND SEMI-RECESSED FIRE EXTINGUISHER CABINET LOCATIONS.

KEY NOTES

1. WALL HUNG HI-LO ELECTRIC WATER COOLER - SEE ELEVATION 11/A5.01
2. EMERGENCY EYE WASH STATION.
3. GALVANIZED SHEET METAL CLOSURE PLATE TO MATCH PREFABRICATED WALK-IN FREEZER WALL CONSTRUCTION. (BP-24)
4. SERVICE WATER HEATER - REFERENCE PLUMBING DOCUMENTS FOR ADDITIONAL INFORMATION (BP-20)
5. SOFFIT ABOVE, REFER TO REFLECTED CLG. PLAN FOR ADDITIONAL INFO. (BP-13.)
6. ELECTRICAL PANELS - SEE ELECTRICAL DOCUMENTS. (BP-22)
7. INSULATE STUD CAVITY OF WALLS THIS ROOM WITH SOUND ATTENUATION BATTS. (BP-13.)
8. PRE-FABRICATED WALK-IN FREEZER. INSTALL PRESERVATIVE TREATED REDWOOD SLEEPERS PER DETAIL 2/A4.01. COORDINATE EXACT LOCATION OF FREEZER WITH CM. INSTALL SS CHECKER PLATE 4' HT. WAINSCOT ON OUTSIDE PANELS EXPOSED TO VIEW (BP-24)
9. 3/4" THK. FRT PLYWOOD CONSTRUCTION PANEL, 8'-0" H. x WIDTH OF WALL, HOLD BOTTOM EDGE AT TOP OF WALL BASE. (BP-13.)
10. STEEL LOCKER UNITS TO BE FURNISHED BY TENANT, INSTALLED BY BID PACKAGE 13 CONTRACTOR. PROVIDE CONCEALED WOOD BLOCKING IN WALL FOR ATTACHMENT OF LOCKERS. (BP-13.) REFER TO FI01 FOR ADDITIONAL INFORMATION.
11. FLAT SCREEN TELEVISION AND WALL MOUNTING BRACKET FURNISHED BY TENANT, INSTALLED BY CONTRACTOR. PROVIDE CONCEALED WOOD BLOCKING IN WALL FOR ATTACHMENT OF MOUNTING BRACKET. (BP-13.) SEE DETAIL 15/A4.01.
12. PONYWALL SUPPORT, TYPICAL AT ENDS OF PARTIAL HEIGHT WALLS. SEE DETAIL 3/A4.01.
13. EXISTING STEEL COLUMN - SAND AND PAINT, SEE FINISH PLAN FOR ADDITIONAL INFORMATION (BP-17.)
14. LAVATORY. SEE ELEVATION 12/A5.01.
15. FLOOR RECEPTACLE (BP-22) SEE ELECTRICAL DOCUMENTS.
16. MOP/SERVICE SINK - SEE PLUMBING DOCUMENTS FOR ADDITIONAL INFORMATION. (BP-20)
17. FLOOR DRAIN, REFERENCE PLUMBING DOCUMENTS. (BP-20)
18. EXISTING WALL CONSTRUCTION.
19. PROVIDE AND INSTALL WINDOW TREATMENTS AT STOREFRONT WINDOWS ALONG THIS WALL (BP-X.).
20. PATCH, REPAIR AND REFINISH GYPSUM BOARD TO RECEIVE NEW FINISH (BP-13.).
21. EXISTING STOREFRONT.
22. STEEL ROOF ACCESS LADDER UP TO ROOF ACCESS. FURNISHED BY BP-7 AND INSTALLED BY BP-13 CONTRACTOR. REFER TO DETAIL 14/A4.01
23. REFER TO FINISH PLAN FOR EXTENT OF CHAIR RAIL.
24. CONCRETE PAD. REFER TO ENLARGED PLAN 3/A1.01
25. CONCRETE PAD. REFER TO ENLARGED PLAN 4/A1.01
26. INFILL OPENING WITH ALUMINUM STOREFRONT (BP-12.).
27. PROVIDE BLOCKING FOR WALL MOUNTED MONITOR. COORDINATE EXACT LOCATION WITH OWNER (BP-13.).
28. CEILING MOUNTED TV BRACKET SEE DETAIL 19/A4.01.
29. SS CHECKER PLATE BENT PLATE CONDENSATE LINE PROTECTION (BP-24)

WALL LEGEND

- INDICATES EXISTING CONSTRUCTION TO BE LEFT UNDISTURBED
- INDICATES NEW WALL CONSTRUCTION
- INDICATES NEW MASONRY CONSTRUCTION

PARTITION NOTES

ALL NEW PARTITIONS SHALL BE WALL TYPE 'A' UNO

- A — 3-5/8" MET STUD @ GYP. BD. PARTITION SEE DETAIL 1/A3.01.
- B — 3-5/8" MET STUD @ GYP. BD. PARTITION TO DECK. SEE DETAIL 2/A3.01.
- C — 6" MET STUD @ GYP BD PARTITION. SEE DETAIL 3/A3.01.
- D — PLUMBING CHASE METAL STUD WALL. SEE DETAIL 4/A3.01.
- E — PARTIAL HEIGHT METAL STUD WALL. SEE DETAIL 7/A3.01.
- F — 3 5/8" METAL STUDS W/ GYP BD ONE SIDE. SEE DETAIL 5/A3.01.
- G — 1 1/2" FURRING WITH GYP BD ONE SIDE. SEE DETAIL 8/A3.01.
- H — ALUMINUM STOREFRONT AND ENTRY SYSTEM. SEE DETAIL 6/A3.01.

PROFESSIONAL SEAL

REGISTERED ARCHITECT — WILLIAM P. CASLER — 24530 — STATE OF TEXAS

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

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CONSULTANTS:

JOB NUMBER	2674.0010
DRAWN BY	SMK/FWK
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FLOOR PLAN AND DETAILS

A1.01

DRAWING NOTES

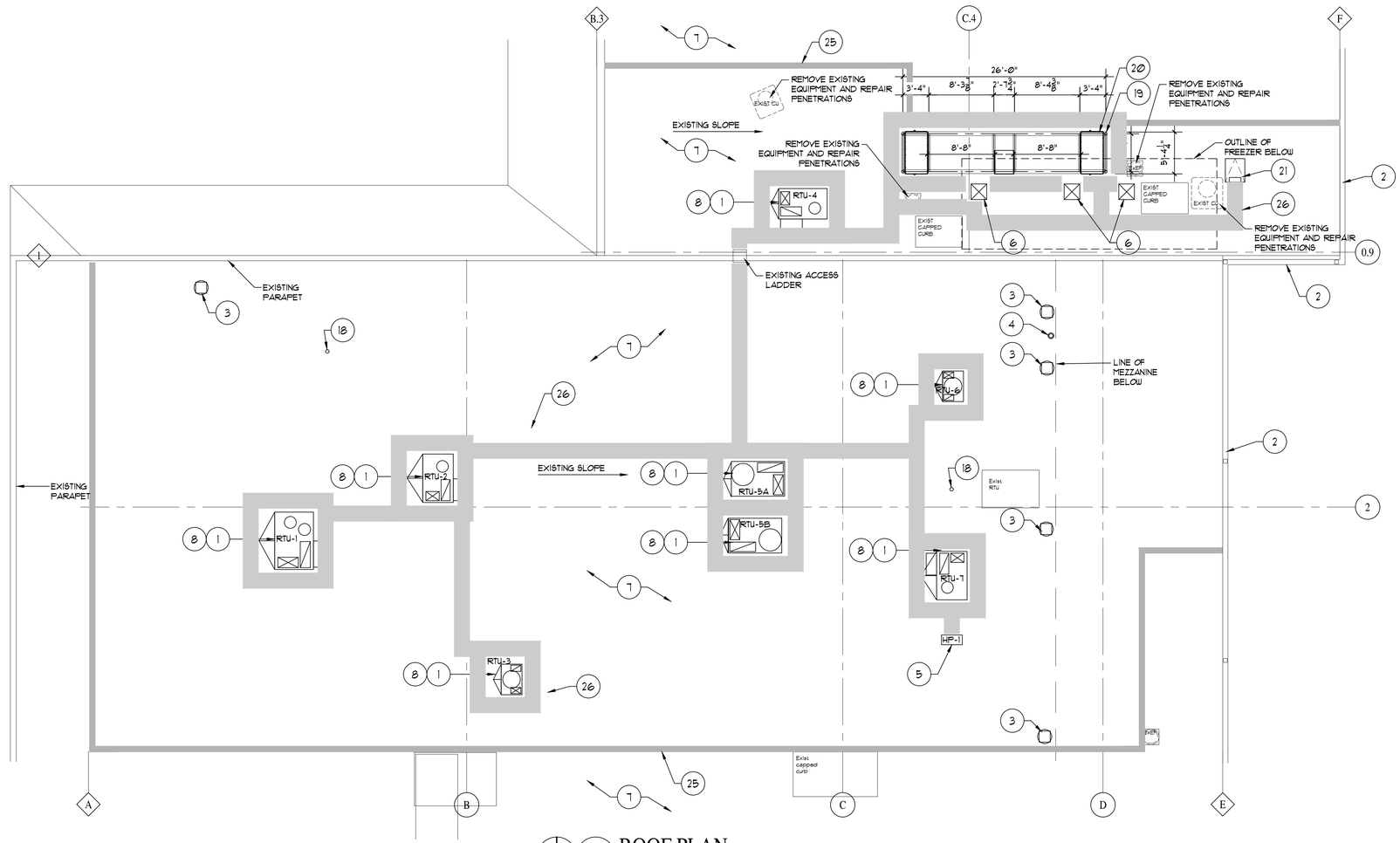
A. EXISTING ROOF SYSTEM - TWO 1" LAYERS OF WOOD FIBER INSULATION AND 1/2" THICK PERLITE RECOVERY BOARD, BUILT-UP MODIFIED BITUMEN ASPHALT ROOF WITH GRAVEL SURFACE. (R 6.4).

B. ALL ROOFING WORK IS PART OF BP-10 UNLESS NOTED OTHERWISE. ROOFING CONTRACTOR SHALL FLASH AND SEAL CURBS AND OTHER ROOF PENETRATIONS BY OTHER TRADES.

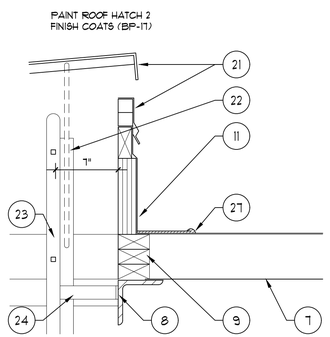
C. ROOF CURBS SHALL BE INSULATED.

KEY NOTES

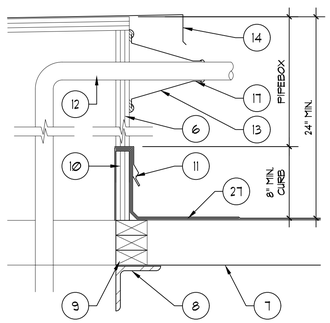
1. ROOFTOP UNIT - SEE MECHANICAL DOCUMENTS (BP-21)
2. EXISTING GUTTER.
3. EXHAUST FAN - SEE MECHANICAL DOCUMENTS (BP-21)
4. WATER HEATER VENT
5. HEAT PUMP - SEE MECHANICAL DOCUMENTS (BP-21).
6. PIPE BOX, 2' x 2' COORDINATE WITH FREEZER (BP-24) CONTRACTOR.
7. EXISTING ROOF CONSTRUCTION.
8. STRUCTURAL STEEL OPENING REINFORCEMENT, SEE "S" DWG (BP-7).
9. WOOD BLOCKING AS REQUIRED TO LEVEL CURB.
10. ROOF CURB, COORDINATE WITH MECHANICAL CONTRACTOR (BP-21) CONTRACTOR.
11. FLASHING AND COUNTER FLASHING.
12. INSULATED PIPING, ELEC CONDUITS, ETC (BP-24)
13. FLEXIBLE NEOPRENE OR RUBBER PIPE BOOT FLASHING. SEALED TOP AND BOTTOM.
14. REMOVABLE COVER WITH 18 GAUGE STAINLESS STEEL RAIN GUARD AT PERIMETER. EXTEND MINIMUM 6" ON ALL SIDES.
15. CONTINUOUS SEALANT (WATER CUT-OFF MASTIC) SUITED FOR APPLICATION AS RECOMMENDED BY MFG.
16. ROOF CURB. COORD WITH MECHANICAL (BP-21) CONTRACTOR.
17. STAINLESS STEEL CLAMPING RING.
18. PLUMBING VENT (BP-20).
19. FREEZER EQUIPMENT, CONDENSING UNIT (BP-24)
20. STEEL FREEZER EQUIPMENT SUPPORT STRUCTURE. SEE STRUCTURAL DOCUMENTS. (BP-7). PAINT COLOR P-X2 (BP-17).
21. ROOF HATCH INSTALLED PER MANUFACTURER'S INSTRUCTIONS, LOCATE IN FIELD ¢ COORDINATE WITH FLOOR PLAN (BP-10)
22. LADDER-UP POST (BP-10)
23. STEEL ACCESS LADDER (BP-7). REFER TO 14/A4.01.
24. WELD BAR TO RAIL AND DECK ANGLE. (BP-7)
25. LOCATION OF TENANT DEMISING WALL - BELOW.
26. WALKWAY PADS - FIRESTONE X-TRED WALKWAY PAD OR APPROVED COMPARABLE PRODUCT (BP-10)
27. HEAT FUSED IN PLACE MEMBRANE (MINIMUM 8" LARGER THEN OPENING) FLASHING. TORCH TOP OF TARGET SO THAT THE SURFACE IS GLOSSY BEFORE APPLYING THE FLASHING. (BP-10)



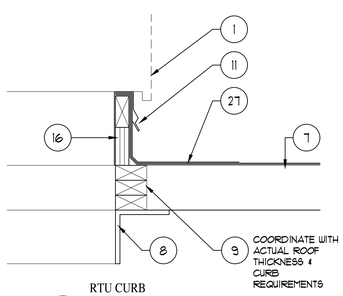
1 A1.02 **ROOF PLAN**
SCALE: 1/8" = 1'-0"



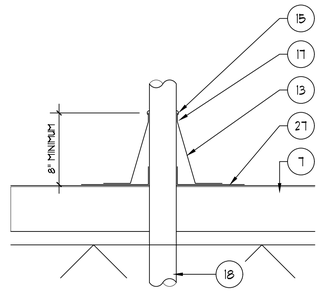
6 A1.02 **DETAIL**
1 1/2" = 1'-0"



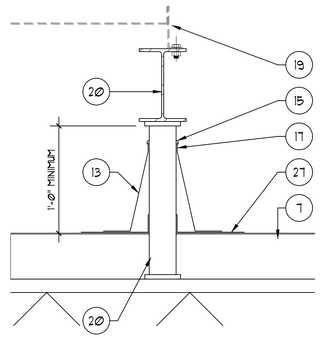
PIPE BOX
5 A1.03 **DETAIL**
1 1/2" = 1'-0"



RTU CURB
4 A1.02 **DETAIL**
1 1/2" = 1'-0"



PIPE PENETRATION
3 A1.02 **DETAIL**
1 1/2" = 1'-0"



FREEZER EQUIPMENT DUNNAGE
2 A1.02 **DETAIL**
1 1/2" = 1'-0"

PROFESSIONAL SEAL

REGISTERED ARCHITECT
WILLIAM P. CASLER
24530
STATE OF TEXAS

ISSUED FOR:

PERMIT/BID	03/07/2019

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CONSULTANTS:

JOB NUMBER	2674.0010
DRAWN BY	SMK/FWK
CHECKED BY	SMK

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ROOF PLAN AND DETAILS

A1.02

KEY NOTES

1. FREEZER LIGHTING TO BE PART OF BID PACKAGE 24 WORK.
2. LIGHT FIXTURE LOCATED UNDER WALL CABINET.
3. SOFFIT AND BLOCKING FOR ATTACHMENT OF TOILET COMPARTMENTS TO CEILING. SEE DETAIL 7/A4Ø1. (BP-13)
4. PRE-FABRICATED WALK-IN FREEZER. (BP-24)
5. GYPSUM BOARD SOFFIT AROUND ROOF ACCESS LADDER. REFERENCE DETAIL 5/A1Ø3
6. GYPSUM BOARD CEILING. (BP-13)
7. ALIGN FACE OF BULKHEAD / SOFFIT WITH FACE OF ADJACENT WALL. PROVIDE GYPSUM BOARD CONTROL JOINT. (BP-13)
8. CONT. SOLID BLOCKING FOR ATTACHMENT OF TOILET COMPARTMENTS TO CEILING, SEE DETAIL 11/A4Ø1.
9. 5/8" GYPSUM BOARD (BP-13)
10. 3-5/8" METAL STUDS AT 16" O.C. (BP-13)
11. ACOUSTIC CEILING GRID AND PANELS (BP-15)
12. DIAGONAL 3-5/8" METAL STUDS BRACING AT 2'-8" O.C. ALTERNATE DIRECTIONS (BP-13)
13. USG COMPASSO ATTACHMENT CLIP (BP-15)
14. USG COMPASSO TRIM (BP-15)
15. RECESSED CAN LIGHT (BP-22) REFERENCE CEILING PLAN FOR LIGHTING LOCATIONS
16. 2x WOOD BLOCKING (BP-13)
17. ALIGN WALL AND SOFFIT FRAMING.

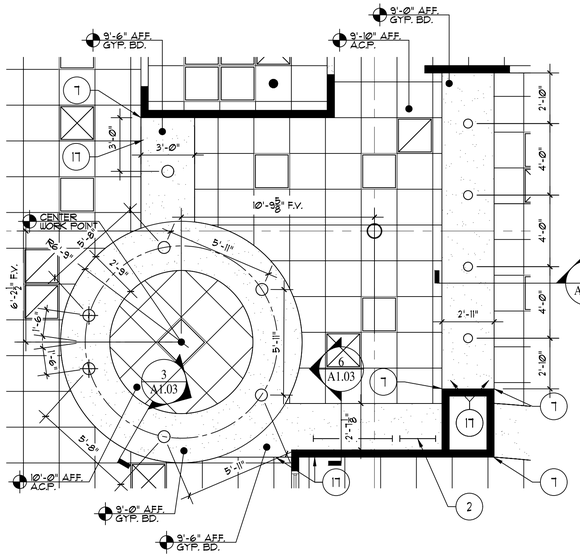
DRAWING NOTES

A. CEILING HEIGHT IS 9'-Ø" AFF. UNLESS NOTED OTHERWISE.

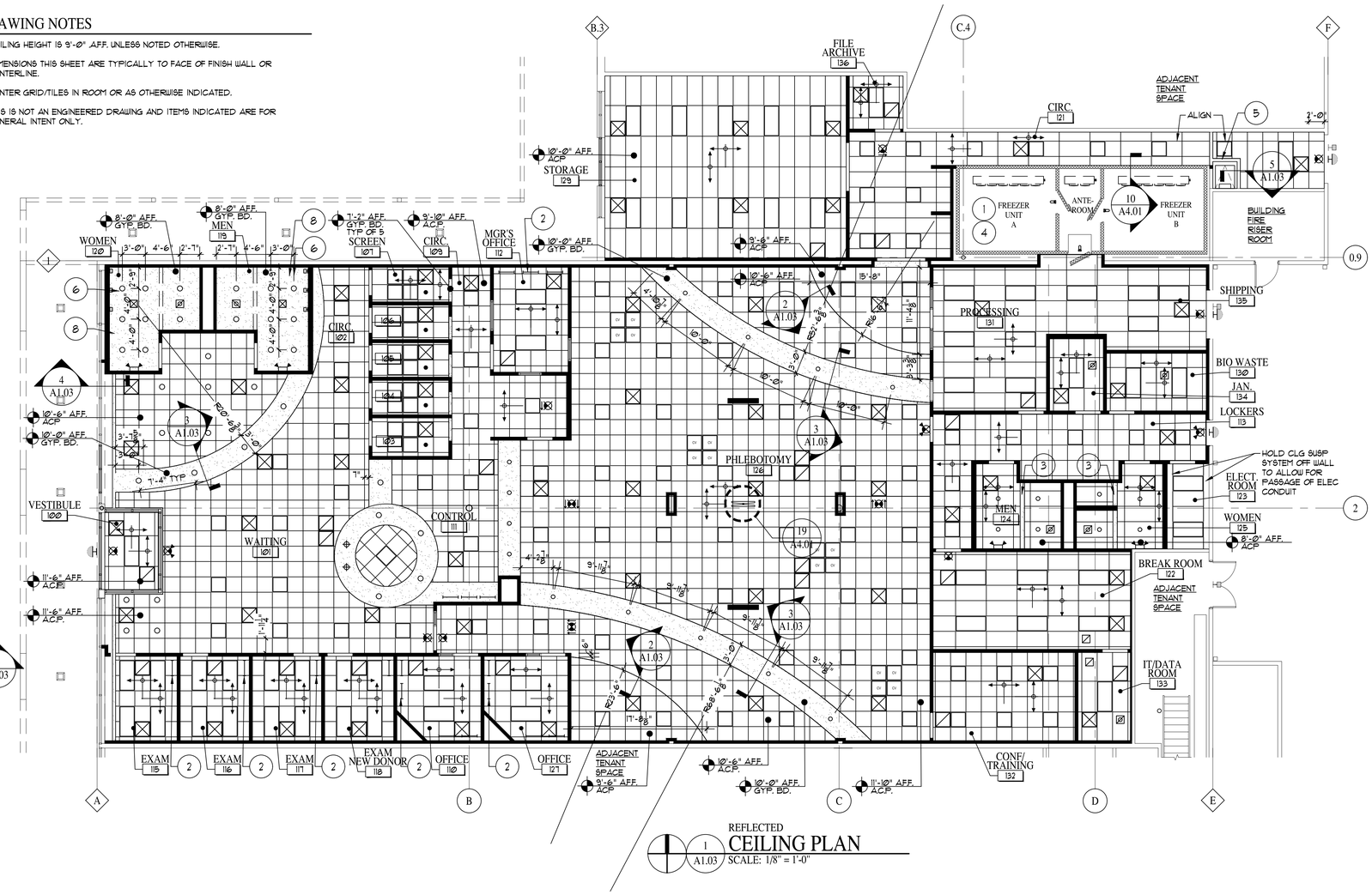
B. DIMENSIONS THIS SHEET ARE TYPICALLY TO FACE OF FINISH WALL OR CENTERLINE.

C. CENTER GRID/TILES IN ROOM OR AS OTHERWISE INDICATED.

D. THIS IS NOT AN ENGINEERED DRAWING AND ITEMS INDICATED ARE FOR GENERAL INTENT ONLY.



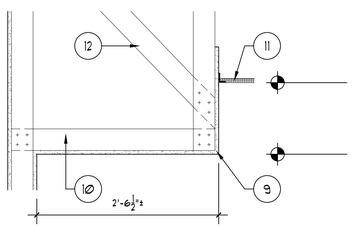
ENLARGED REFLECTED
CEILING PLAN
7 / A1.03 SCALE: 1/8" = 1'-0"



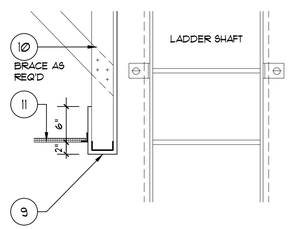
REFLECTED
CEILING PLAN
1 / A1.03 SCALE: 1/8" = 1'-0"

CEILING FIXTURE LEGEND
(NOT ALL SYMBOLS MAY BE USED)

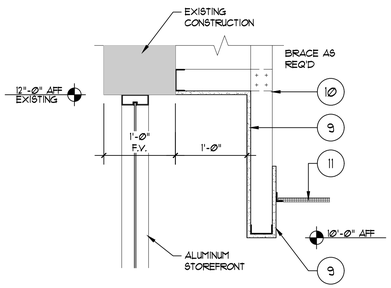
- 2x4 LAY-IN FIXTURE
- 2x4 LAY-IN (EMERGENCY)
- 2x2 LAY-IN FIXTURE
- 2x2 LAY-IN (EMERGENCY)
- 2x2 LAY-IN DIGITAL IMAGE
- RECESSED ROUND DOWNLIGHT
- RECESSED WALL WASHER
- RECESSED WALL WASHER
- EXISTING SURFACE MOUNTED EXTERIOR LIGHT
- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- EXHAUST FAN
- EXIT SIGN
- EXIT SIGN / EMERGENCY LIGHT COMBO
- WALL MOUNTED EMERGENCY LIGHT
- REMOTE EXTERIOR EMERGENCY EGRESS LIGHT
- WALL SCONCE
- TASK LIGHT BELOW WALL CABINET
- CLG GRID/TILE ORIGIN: CENTER GRID/TILE IN ROOM AS INDICATED U.N.O.
- SPRINKLER HEAD



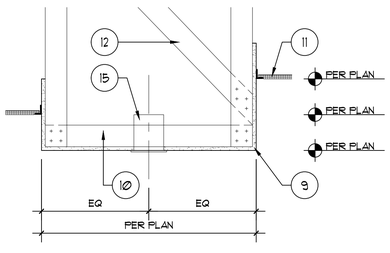
6 / A1.03 DETAIL
1" = 1'-0"



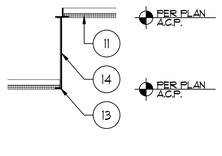
5 / A1.03 DETAIL
1" = 1'-0"



4 / A1.03 DETAIL
1" = 1'-0"



3 / A1.03 DETAIL
1" = 1'-0"



2 / A1.03 DETAIL
1" = 1'-0"

PROFESSIONAL SEAL

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CASLER DESIGN GROUP, INC.
Architecture • Planning • Interior Design
10805 Indeco Drive • Cincinnati, Ohio 45241
(Phone) 513.791.0456 • (Fax) 513.792.7488

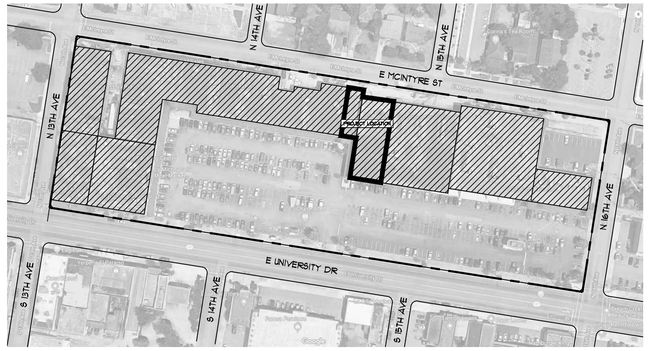
CONSULTANTS:

JOB NUMBER	2674.0010
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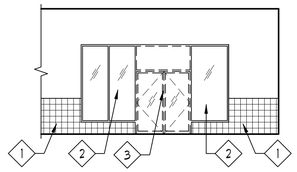
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REFLECTED CEILING PLAN AND DETAILS

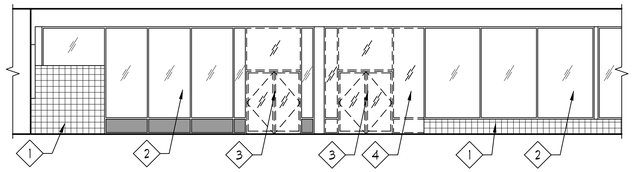
A1.03



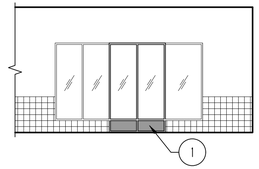
6 A2.01 SITE PLAN
SCALE: NO SCALE



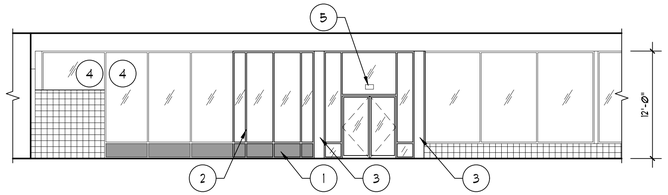
EXISTING/DEMO
2 A2.01 ELEVATION
SCALE: 1/8" = 1'-0"



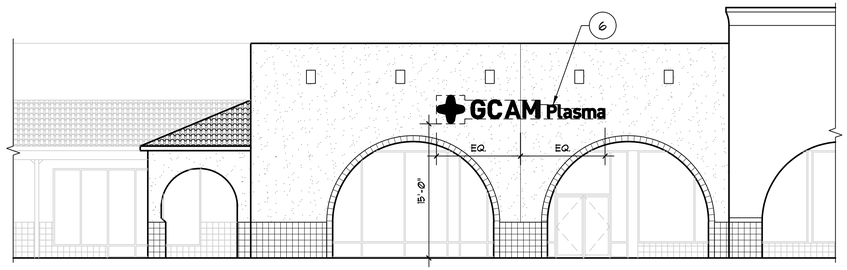
EXISTING/DEMO
1 A2.01 ELEVATION
SCALE: 1/8" = 1'-0"



4 A2.01 ELEVATION
SCALE: 1/8" = 1'-0"



3 A2.01 ELEVATION
SCALE: 1/8" = 1'-0"



5 A2.01 ELEVATION
SCALE: 1/8" = 1'-0"

DRAWING NOTES

A. ALL NEW GLASS SHALL BE TEMPERED SAFETY GLASS.

B. NEW GLASS COLOR TO MATCH EXISTING. (PRESUME TO BE CLEAR FOR BIDDING PURPOSES)

C. SIGNAGE SHOWN FOR BIDDING PURPOSES ONLY. SEPARATE PERMIT FOR SIGNAGE IS REQUIRED. CONTRACTOR SHALL OBTAIN FINAL APPROVAL BY TENANT PRIOR TO APPLICATION FOR PERMIT. CONTRACTOR SHALL SECURE AND PAY FOR SIGNAGE PERMIT.

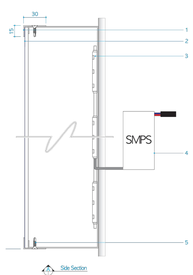
DEMO NOTES

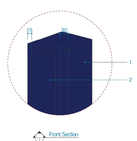
1. EXISTING TILE TO REMAIN.
2. EXISTING STOREFRONT TO REMAIN.
3. REMOVE EXISTING STOREFRONT DOORS.
4. REMOVE PORTIONS OF EXISTING STOREFRONT AS REQUIRED FOR MODIFICATIONS.

KEY NOTES

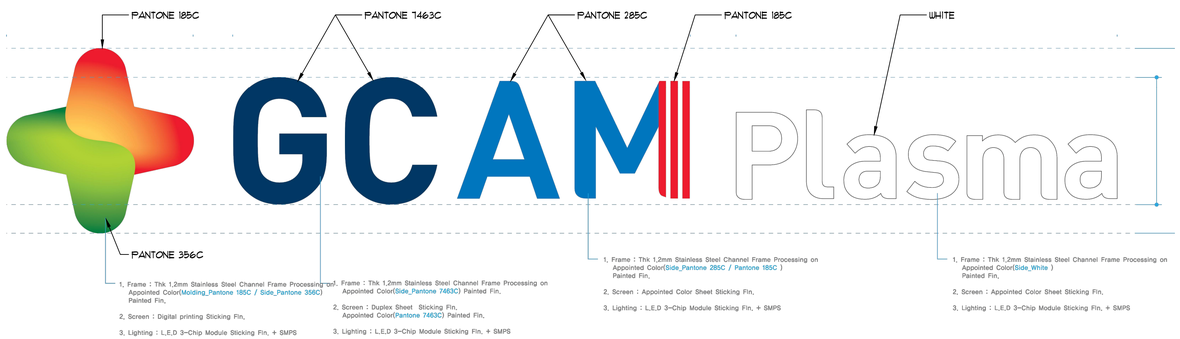
1. INSULATED METAL INFILL PANEL TO MATCH EXISTING (BP-12).
2. MODIFY STOREFRONT AS INDICATED. NEW STOREFRONT SHALL MATCH EXISTING FINISH AND FRAMING MEMBER SIZE (BP-12).
3. ALUMINUM FREAK METAL TO MATCH STOREFRONT FINISH (BP-12).
4. PROVIDE OPAQUE FILM TO "BLACK-OUT" GLASS. INSTALL PER MANUFACTURER'S INSTRUCTIONS (BP-12).
5. APPLIED ADDRESS SIGN WITH 6" TO 8" TALL NUMBERS. PROVIDE ADDRESS NUMBERS ON REAR DOORS WITH 3" TO 6" TALL NUMBERS. COORDINATE WITH SIGN SCHEDULE (BP-19).
6. TENANT SIGNAGE WITH INDIVIDUAL CHANNEL LETTERS AND LOGO WITH INTERNAL ILLUMINATION (BP-19).

Production
1. Thk 1.2mm Stainless Steel Channel Frame Processing on Appointed Color(Side_Pantone 7463C) Painted Fin.
2. Thk 3mm Polycarbonate Plate Processing on Duplex Sheet Sticking Fin Appointed Color(Pantone 7463C) Painted Fin
3. In Lamp : L.E.D 3-Chip Module Sticking Fin. + SMPS





8 A2.01 SIGN SECTION
SCALE: NO SCALE



7 A2.01 SIGN
SCALE: NO SCALE

PROFESSIONAL SEAL

REGISTERED ARCHITECT
WILLIAM P. CASLER
24530
STATE OF TEXAS

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

GCAM Plasma
419 E. UNIVERSITY DRIVE
EDINBURG, TX 78539

ARCHITECT:

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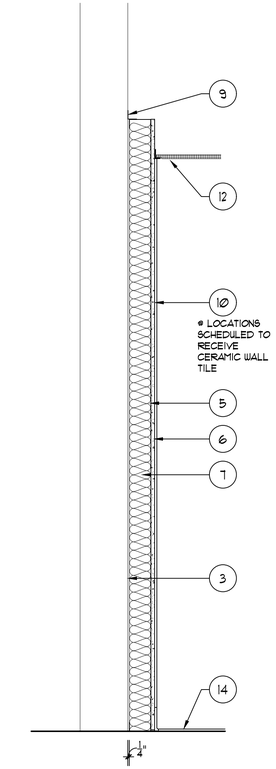
CONSULTANTS:

JOB NUMBER	2674.0010
DRAWN BY	SMK/FWK
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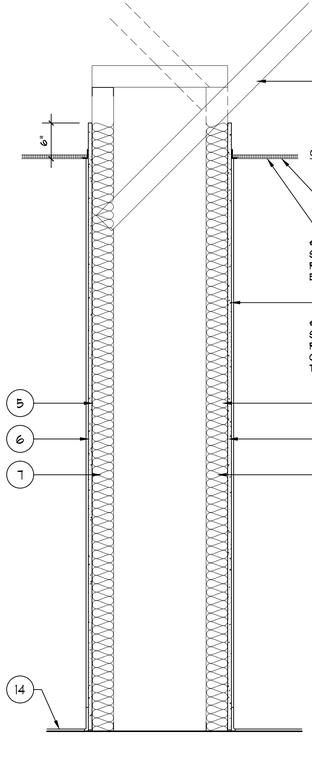
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ELEVATIONS

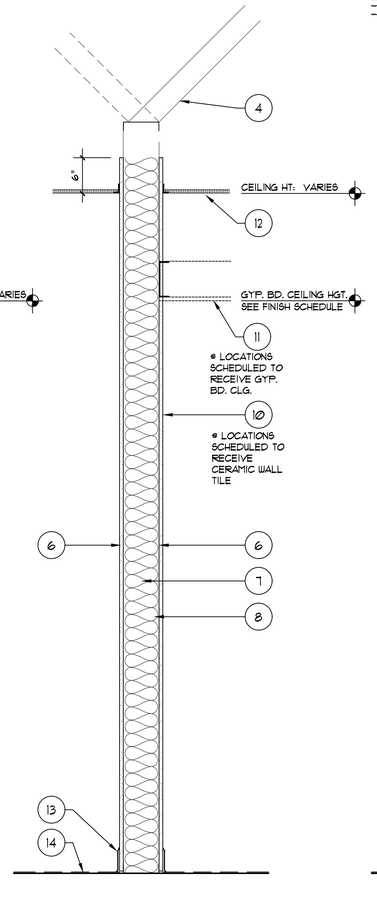
A2.01



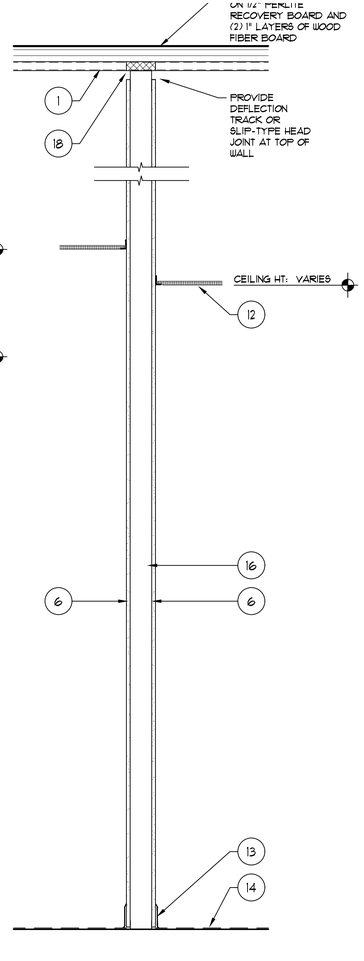
5 A3.01 **WALL TYPE 'F'** 1" = 1'-0"



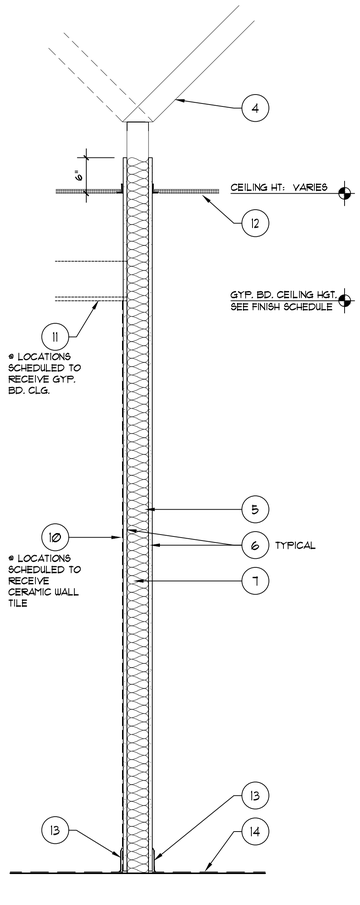
4 A3.01 **WALL TYPE 'D'** 1" = 1'-0"



3 A3.01 **WALL TYPE 'C'** 1" = 1'-0"



2 A3.01 **WALL TYPE 'B'** 1" = 1'-0"

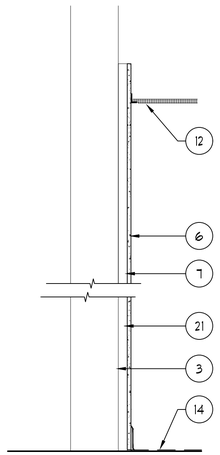


1 A3.01 **WALL TYPE 'A'** 1" = 1'-0"

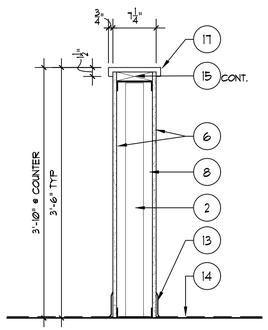
KEY NOTES

1. EXISTING ROOF DECK / ASSEMBLY.
2. PONYWALL SUPPORT AS MANUFACTURED BY SCAFCO OR EQUAL. ANCHOR TO SLAB WITH 3/8" X 4" EXP. BOLTS (BP-13)
3. EXISTING WALL CONSTRUCTION.
4. PROVIDE DIAGONAL 3-5/8" STEEL STUDS (20 GAUGE) KICKER BRACE AT 4'-0" O.C. MAX. (BP-13). ALTERNATE DIRECTION OF KICKER.
5. INTERIOR METAL STUDS: 3-5/8" METAL STUDS (20 GAUGE) AT 16" O.C. U.N.O. (BP-13)
6. 5/8" GYPSUM BOARD. (BP-13)
7. FILL CAVITY FULL THICKNESS WITH SOUND BATT INSULATION AT LOCATIONS NOTED ON FLOOR PLAN. (BP-13)
8. INTERIOR METAL STUDS: 6" METAL STUDS (20 GAUGE) AT 16" O.C. U.N.O. (BP-13)
9. 1 1/2" X 1 1/2" (20 GAUGE) CLIP AT 4'-0" O.C. , (BP-13)
10. FULL HEIGHT CERAMIC TILE WALL FINISH ON 1/2" THICK CEMENTITIOUS TILE BACKER BOARD. REFERENCE FINISH SCHEDULE FOR LOCATIONS. (BP-14)
11. 1/2" GYP. BD. CEILING ON 6" METAL CEILING JOISTS @ 16" O.C. (BP-13)
12. SUSPENDED ACOUSTICAL CEILING SYSTEM (BP-15)
13. WALL BASE - PER FINISH SCHEDULE. (RESILIENT BASE, BP-16) (CERAMIC BASE, BP-14).
14. FLOORING AS NOTED ON FINISH SCHEDULE (RESILIENT FLOORING, BP-16) (CERAMIC TILE, BP-14)
15. WOOD BLOCKING (BP-13)
16. INTERIOR METAL STUDS: 3⅝" METAL STUDS (18 GAUGE) AT 16" O.C. U.N.O. (BP-13)
17. SOLID SURFACE WALL CAP (BP-8)
18. SEAL TOP OF WALL TO EXISTING CONSTRUCTION. (BP-13)
19. ALUMINUM STOREFRONT TO MATCH EXISTING STOREFRONT. (BP-12)
20. 1/4" THICK GLAZING, TEMPERED SAFETY GLAZING WHERE REQUIRED. (BP-12)
21. 1 1/2" DEEP Z-FURRING (18 GAUGE) AT 16" O.C. ALIGN WITH EXISTING VERTICAL WALL FRAMING MEMBERS AT STUD WALL LOCATIONS (BP-13)

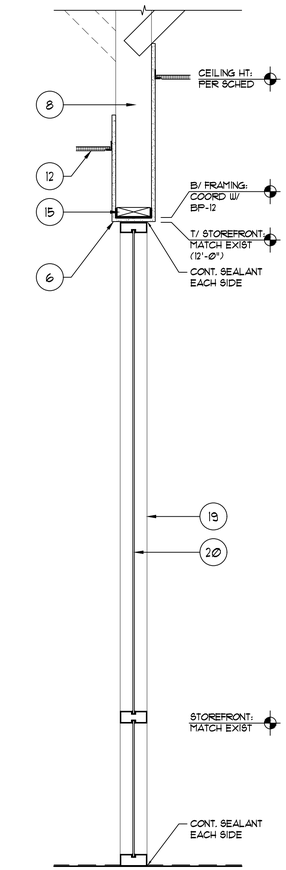
WALL CLOSURE AT WINDOW MULLION
9 A3.01 **DETAIL** 1" = 1'-0"



8 A3.01 **WALL TYPE 'G'** 1" = 1'-0"



7 A3.01 **WALL TYPE 'E'** 1" = 1'-0"



6 A3.01 **WALL TYPE 'H'** 1" = 1'-0"

PROFESSIONAL SEAL

REGISTERED ARCHITECT WILLIAM P. CASLER 24530 STATE OF TEXAS

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

GCAM Plasma

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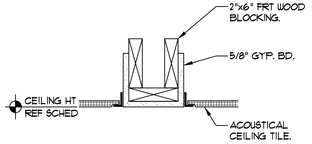
CONSULTANTS:

JOB NUMBER	2674.0010
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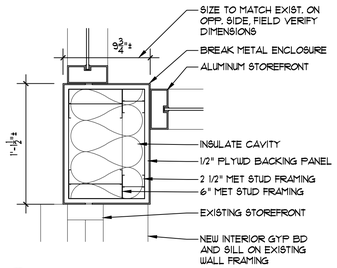
WALL TYPES

A3.01

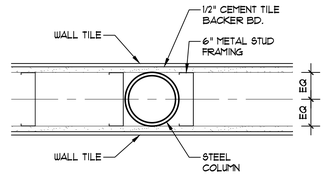


EMPLOYEE TOILET ROOM

7 A4.01 DETAIL 1 1/2" = 1'-0"

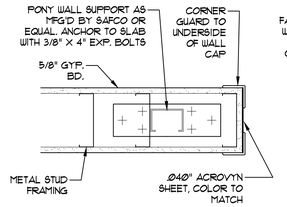


6 A4.01 DETAIL 1 1/2" = 1'-0"



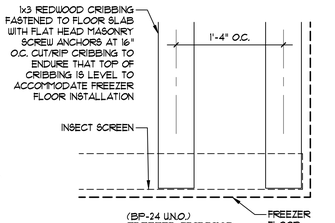
(BP-13 U.N.O.)
HORIZONTAL

5 A4.01 DETAIL 1 1/2" = 1'-0"



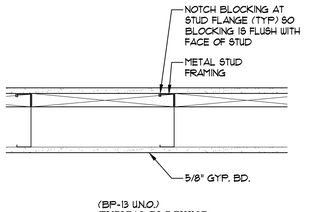
(BP-13 U.N.O.)
HORIZONTAL

3 A4.01 DETAIL 1 1/2" = 1'-0"



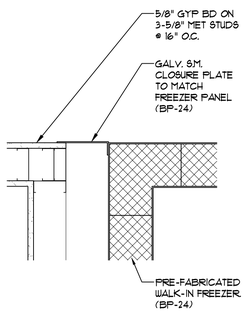
(BP-24 U.N.O.)
FREEZER CRIBBING

2 A4.01 DETAIL 1 1/2" = 1'-0"

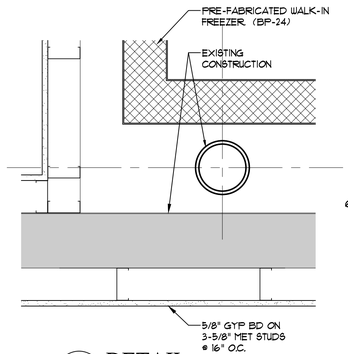


(BP-13 U.N.O.)
TYPICAL BLOCKING
HORIZONTAL

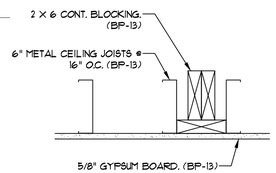
1 A4.01 DETAIL 1 1/2" = 1'-0"



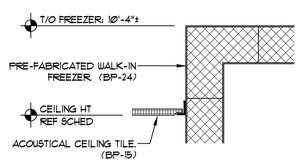
13 A4.01 DETAIL 1 1/2" = 1'-0"



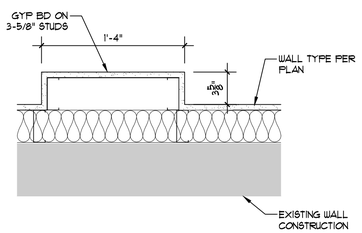
12 A4.01 DETAIL 1 1/2" = 1'-0"



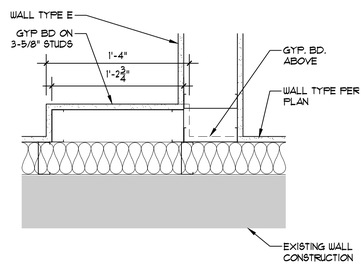
11 A4.01 DETAIL 1 1/2" = 1'-0"



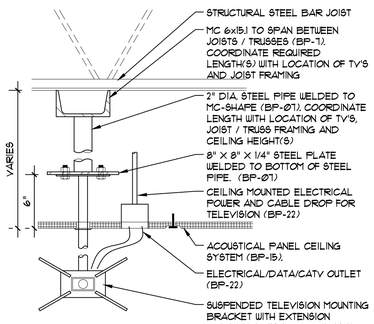
10 A4.01 DETAIL 1 1/2" = 1'-0"



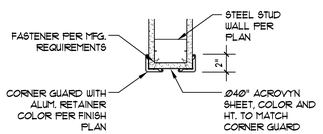
9 A4.01 DETAIL 1 1/2" = 1'-0"



8 A4.01 DETAIL 1 1/2" = 1'-0"

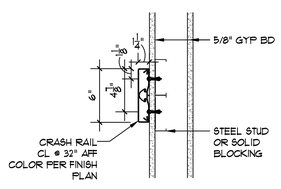


19 A4.01 DETAIL 1 1/2" = 1'-0"



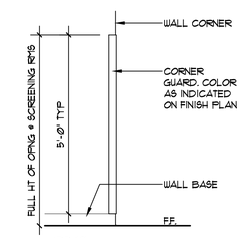
(BP-18)
CORNER GUARD (WP)

18 A4.01 DETAIL 1 1/2" = 1'-0"



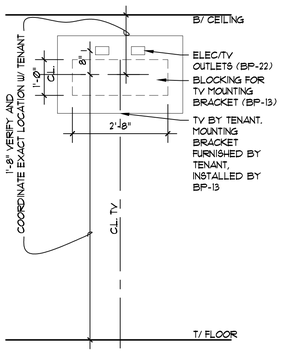
(BP-18)
CRASH RAIL (WP)

17 A4.01 DETAIL 1 1/2" = 1'-0"

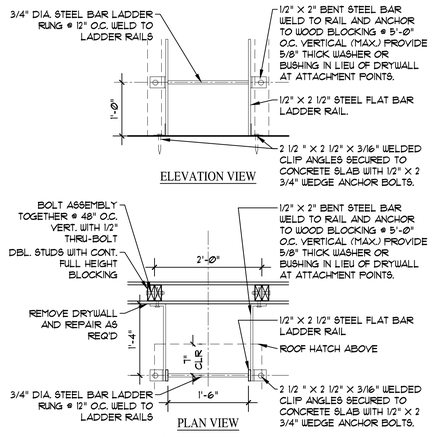


(BP-18)
CORNER GUARD (WP)

16 A4.01 DETAIL 1/2" = 1'-0"



15 A4.01 DETAIL 1/2" = 1'-0"



ROOF ACCESS LADDER

14 A4.01 DETAIL 3/4" = 1'-0"

FURNISHED BY BP-7
INSTALLED BY BP-13
PAINTED BY BP-17

PROFESSIONAL SEAL

REGISTERED ARCHITECT
WILLIAM P. CASLER
24530
STATE OF TEXAS

ISSUED FOR:

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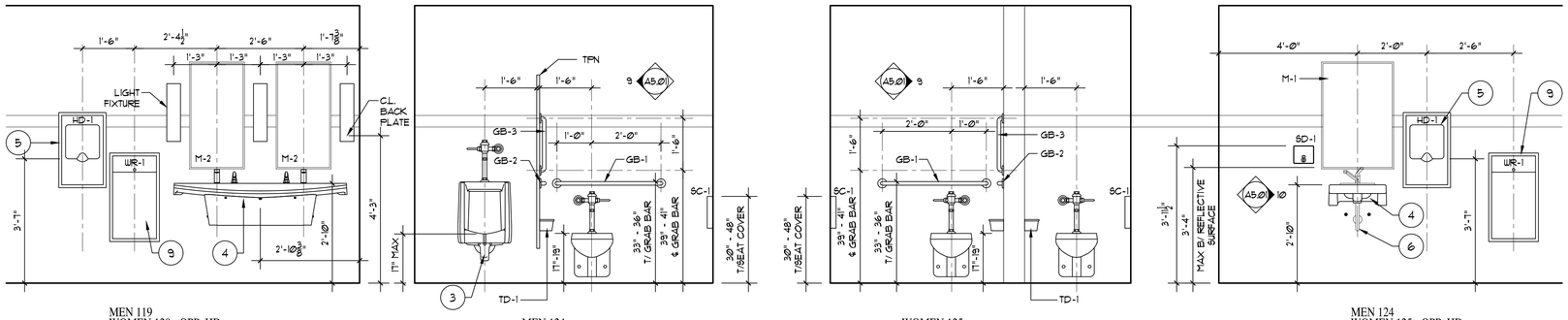
CONSULTANTS:

JOB NUMBER	2674.0010
DRAWN BY	SMK/FWK
CHECKED BY	SMK

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DETAILS

A4.01



MEN 119
WOMEN 120 - OPP. HD.

6 A5.01 **ELEVATION** 1/2" = 1'-0"

MEN 124

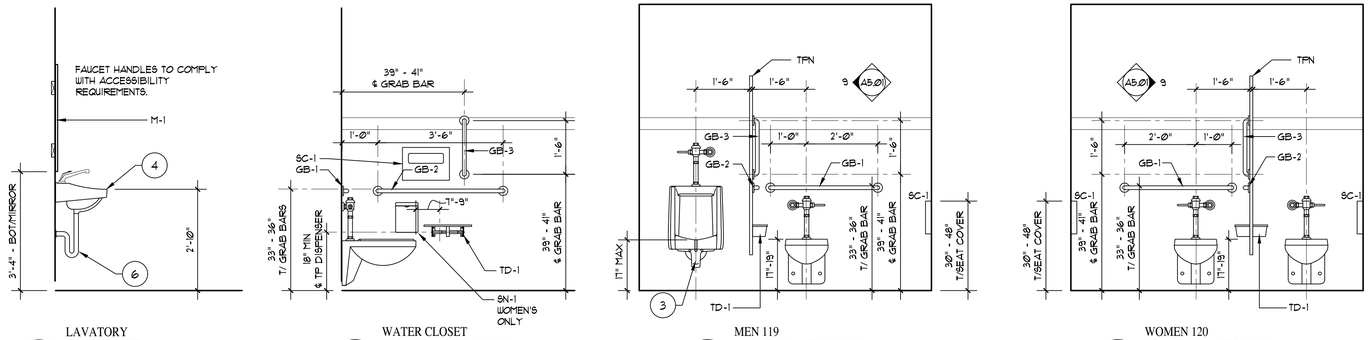
5 A5.01 **ELEVATION** 1/2" = 1'-0"

WOMEN 125

4 A5.01 **ELEVATION** 1/2" = 1'-0"

MEN 124
WOMEN 125 - OPP. HD.

3 A5.01 **ELEVATION** 1/2" = 1'-0"



LAVATORY

10 A5.01 **DETAIL** 1/2" = 1'-0"

WATER CLOSET

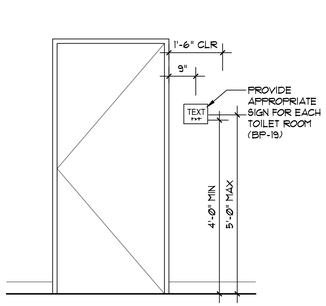
9 A5.01 **ELEVATION** 1/2" = 1'-0"

MEN 119

8 A5.01 **ELEVATION** 1/2" = 1'-0"

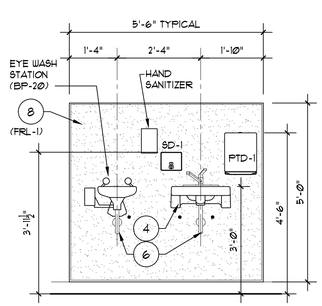
WOMEN 120

7 A5.01 **ELEVATION** 1/2" = 1'-0"



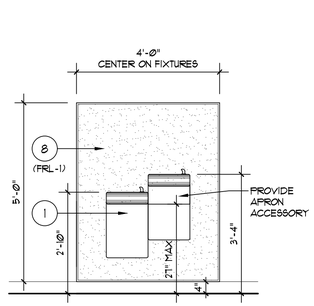
TOILET ROOM SIGNAGE

13 A5.01 **ELEVATION** 1/2" = 1'-0"



LAVATORY & EYEWASH

12 A5.01 **ELEVATION** 1/2" = 1'-0"



INSTALL TO COMPLY WITH ACCESSIBILITY REQUIREMENTS
DRINKING FOUNTAIN

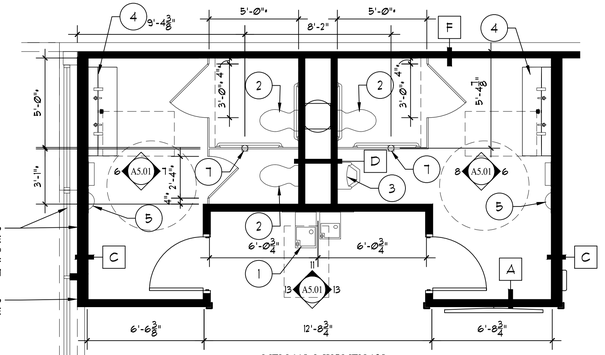
11 A5.01 **ELEVATION** 1/2" = 1'-0"

TOILET ACCESSORY SCHEDULE (BP-18, U.N.O.)

ABBREVIATIONS	DESCRIPTION	SIZE	PRODUCT			REMARKS
GB-1	GRAB BAR	36"	BOBRICK B6806x36	♿		
GB-2	GRAB BAR	42"	BOBRICK B6806x42	♿		
GB-3	GRAB BAR	18"	BOBRICK B6806x18	♿		
HD-1	HAND DRYER		XLERATOR XL-SB	♿		BP-22
M-1	FRAMED MIRROR	24"x36"	BOBRICK B-290	♿		
M-2	FRAMED MIRROR	18"x36"	BOBRICK B-290	♿		
SN-1	SANITARY NAPKIN DISPOSAL		BOBRICK B-270	♿		
TD-1	MULTI-ROLL TOILET TISSUE DISPENSER		BOBRICK B-2840	♿		
SD-1	SOAP DISPENSER		BOBRICK B-2112	♿		
PTD-1	PAPER TOWEL DISPENSER		BOBRICK B-2620	♿		
SC-1	SEAT COVER DISPENSER		BOBRICK B-221			
TPN	TOILET PARTITION		METPAR F/C-FP/FP	♿		SEE NOTES
WR-1	RECESSED WASTE RECEPTACLE		BOBRICK B-3644			INCLUDE LINER-MATE OPTION

TOILET ACCESSORY NOTES

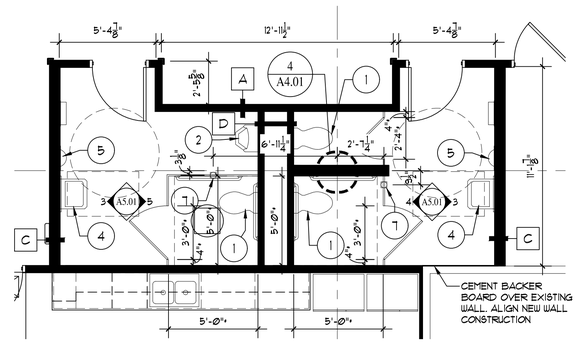
1. ♿ INDICATES ACCESSORIES AND/OR PLUMBING FIXTURES SHALL BE HANDICAPPED ACCESSIBLE.
2. ALL TOILET ACCESSORIES SHALL BE SURFACE MOUNTED UNLESS NOTED OTHERWISE.
3. ACTUAL HARDWARE EMPLOYED MAY DIFFER FROM THAT SHOWN ABOVE. MANUFACTURER AND MODEL NUMBERS ARE SHOWN TO ESTABLISH FUNCTION AND QUALITY.
4. TOILET PARTITIONS (TPN) TO BE STAINLESS STEEL, FLOOR AND CEILING ANCHORED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. BP-13 SHALL PROVIDE BLOCKING AS REQUIRED FOR MOUNTING TOILET ACCESSORIES. BP-18 CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH BP-13 CONTRACTOR. SEE 2/A1Ø1.



SEE ELEVATIONS FOR ADD'L DIMS
DIMS W/ • ARE FINISH DIMENSIONS

MEM 119 & WOMEN 120

2 A5.01 **DETAIL PLAN** SCALE: 1/4" = 1'-0"



SEE ELEVATIONS FOR ADD'L DIMS
DIMS W/ • ARE FINISH DIMENSIONS

MEN 124 & WOMEN 125

1 A5.01 **DETAIL PLAN** SCALE: 1/4" = 1'-0"

PROFESSIONAL SEAL

REGISTERED ARCHITECT WILLIAM P. CASLER 24530 STATE OF TEXAS

KEY NOTES

1. WALL HUNG HI-LO ELECTRIC WATER COOLER (EWC) - SEE PLUMBING DOCUMENTS. (BP-20).
2. WATER CLOSET - SEE PLUMBING DRAWING (BP-20) TYPICAL.
3. URINAL - SEE PLUMBING DRAWING (BP-20) TYPICAL.
4. LAVATORY - SEE PLUMBING DRAWINGS (BP-20) TYPICAL.
5. ELECTRIC HAND DRYER WITH RECESS KIT (BP-22). BP-13 CONTRACTOR TO PROVIDE FRAMING FOR RECESS KIT.
6. PIPE PROTECTION / INSULATION (BP-20) TYPICAL. REFERENCE PLUMBING DOCUMENTS FOR ADDITIONAL INFORMATION.
7. FLOOR DRAIN (BP-20) TYPICAL. SEE PLUMBING DOCUMENTS FOR ADDITIONAL INFORMATION.
8. FRL SANITARY WALL PANEL AND TRIM (BP-13). DO NOT PAINT WALL BEHIND PANELS. COORDINATE COLORS WITH ROOM FINISH SCHEDULE.

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

GCAM Plasma

419 E. UNIVERSITY DRIVE
EDINBURG, TX 78539

ARCHITECT:

CASLER DESIGN GROUP, INC.
Architecture • Planning • Interior Design
10805 Indeco Drive • Cincinnati, Ohio 45241
(Phone) 513.791.0456 • (Fax) 513.792.7488

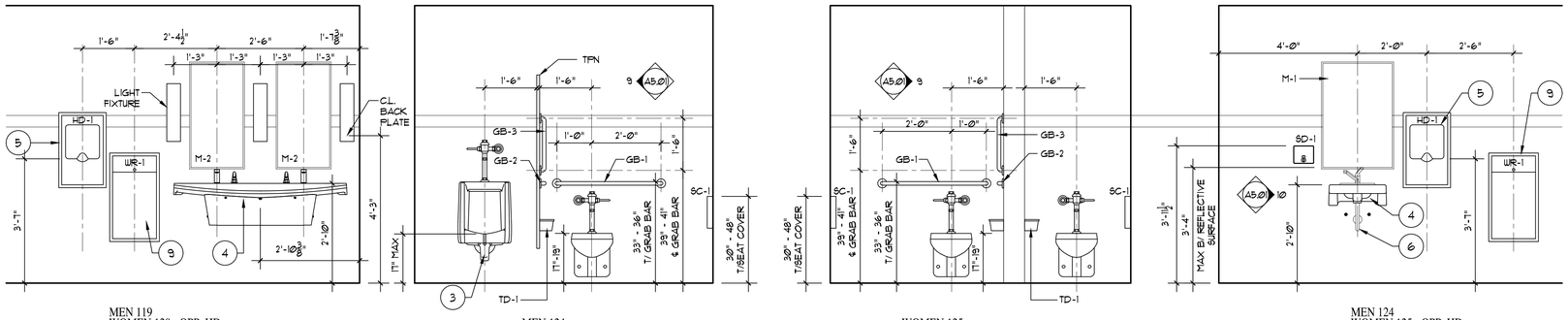
CONSULTANTS:

JOB NUMBER	2674.0010
DRAWN BY	SMK/FWK
CHECKED BY	SMK

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TOILET ROOM PLANS AND ELEVATIONS

A5.01



MEN 119
WOMEN 120 - OPP. HD.

6 A5.01 **ELEVATION** 1/2" = 1'-0"

MEN 124

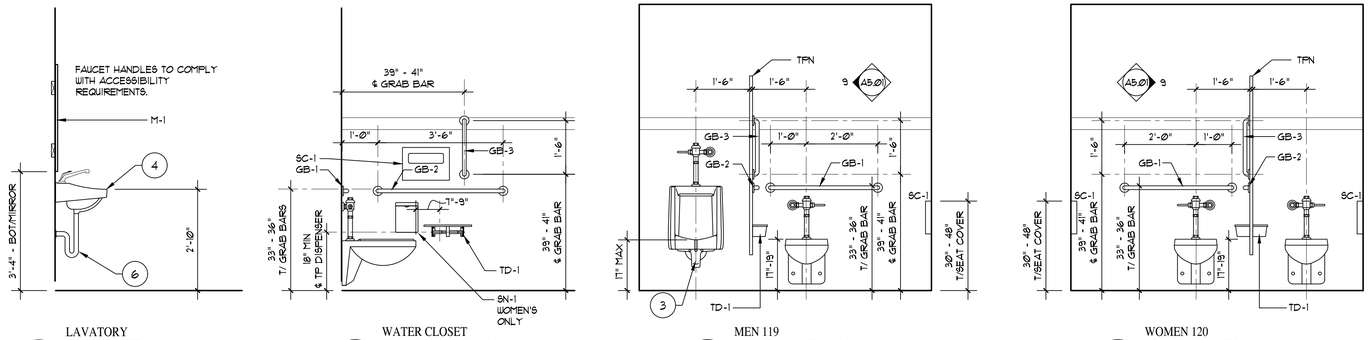
5 A5.01 **ELEVATION** 1/2" = 1'-0"

WOMEN 125

4 A5.01 **ELEVATION** 1/2" = 1'-0"

MEN 124
WOMEN 125 - OPP. HD.

3 A5.01 **ELEVATION** 1/2" = 1'-0"



LAVATORY

10 A5.01 **DETAIL** 1/2" = 1'-0"

WATER CLOSET

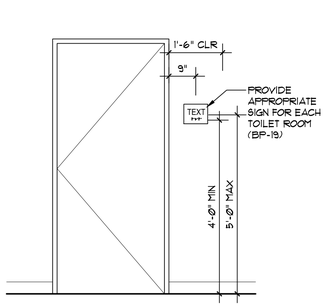
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MEN 119

8 A5.01 **ELEVATION** 1/2" = 1'-0"

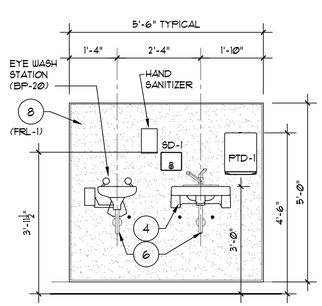
WOMEN 120

7 A5.01 **ELEVATION** 1/2" = 1'-0"



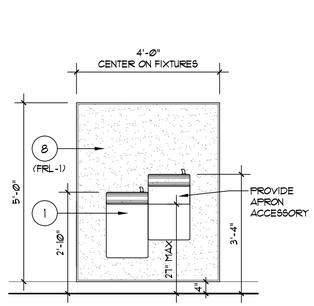
TOILET ROOM SIGNAGE

13 A5.01 **ELEVATION** 1/2" = 1'-0"



LAVATORY & EYEWASH

12 A5.01 **ELEVATION** 1/2" = 1'-0"



INSTALL TO COMPLY WITH ACCESSIBILITY REQUIREMENTS
DRINKING FOUNTAIN

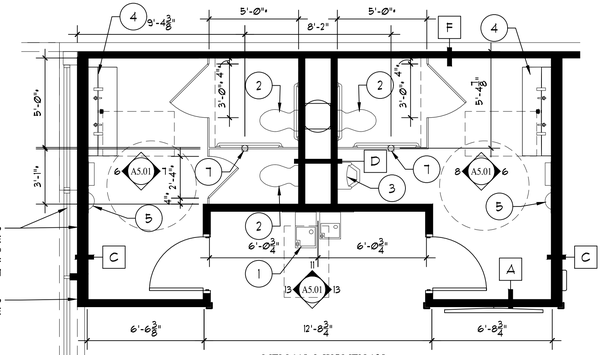
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TOILET ACCESSORY NOTES

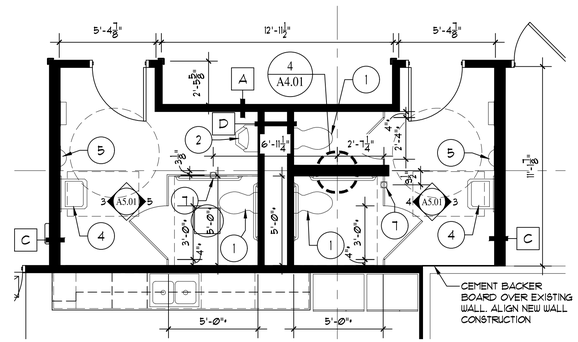
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SEE ELEVATIONS FOR ADD'L DIMS
DIMS W/ • ARE FINISH DIMENSIONS

MEM 119 & WOMEN 120

2 A5.01 **DETAIL PLAN** SCALE: 1/4" = 1'-0"



SEE ELEVATIONS FOR ADD'L DIMS
DIMS W/ • ARE FINISH DIMENSIONS

MEN 124 & WOMEN 125

1 A5.01 **DETAIL PLAN** SCALE: 1/4" = 1'-0"

PROFESSIONAL SEAL

REGISTERED ARCHITECT WILLIAM P. CASLER 24530 STATE OF TEXAS

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ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

GCAM Plasma

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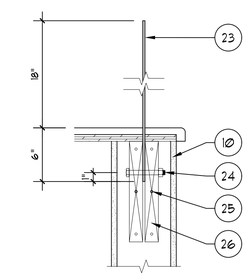
CONSULTANTS:

JOB NUMBER	2674.0010
DRAWN BY	SMK/FWK
CHECKED BY	SMK

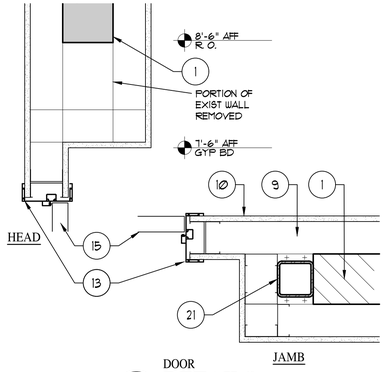
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TOILET ROOM PLANS AND ELEVATIONS

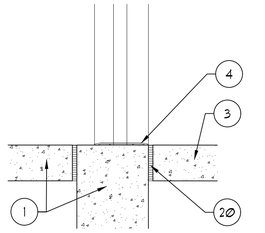
A5.01



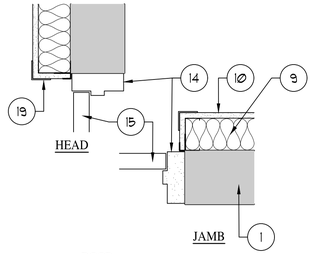
RESIN PANEL SILL
13 A6.01 DETAIL
1 1/2" = 1'-0"



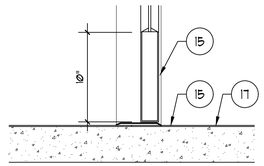
DOOR
12 A6.01 DETAILS
1 1/2" = 1'-0"



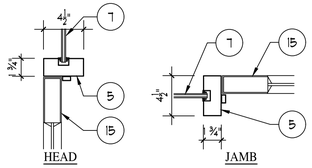
DOOR
11 A6.01 DETAILS
1 1/2" = 1'-0"



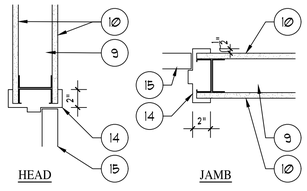
DOOR
10 A6.01 DETAILS
1 1/2" = 1'-0"



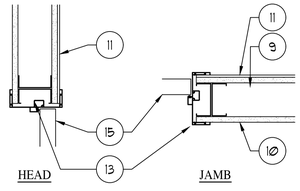
ENTRY DOOR
9 A6.01 DETAILS
1 1/2" = 1'-0"



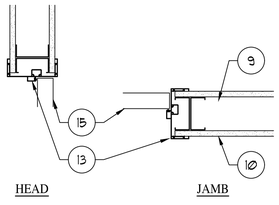
ENTRY DOOR
8 A6.01 DETAILS
1 1/2" = 1'-0"



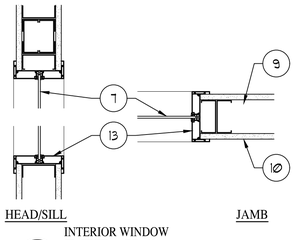
INTERIOR STEEL DOOR
7 A6.01 DETAIL
1 1/2" = 1'-0"



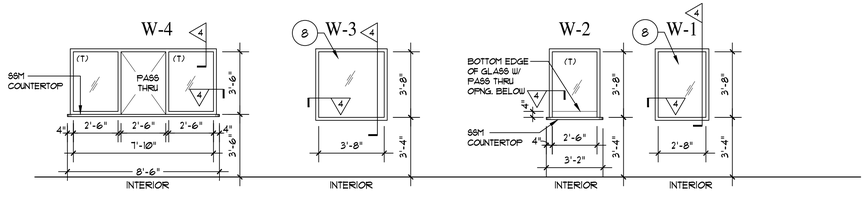
INTERIOR DOOR
6 A6.01 DETAILS
1 1/2" = 1'-0"



INTERIOR DOOR
5 A6.01 DETAILS
1 1/2" = 1'-0"



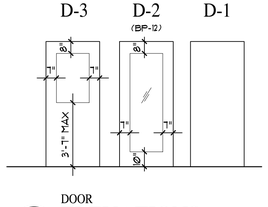
INTERIOR WINDOW
4 A6.01 DETAILS
1 1/2" = 1'-0"



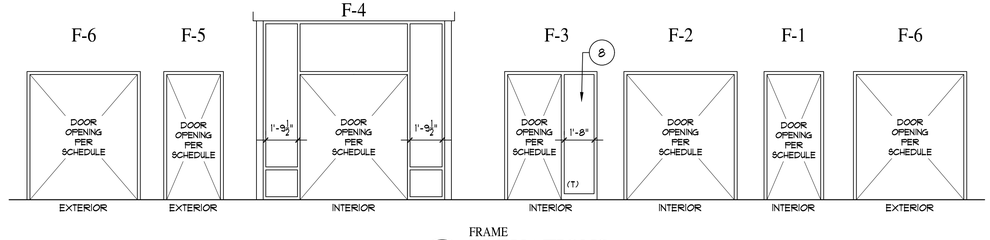
DOORS - FURNISHED BY BID PACKAGE 11 CONTRACTOR, INSTALLED BY BID PACKAGE 13 CONTRACTOR, GLAZING FURNISHED AND INSTALLED BY BP-12, UNLESS NOTED OTHERWISE

FRAMES - FURNISHED BY BID PACKAGE 11 CONTRACTOR, INSTALLED BY BID PACKAGE 13 CONTRACTOR, UNLESS NOTED OTHERWISE. GLAZING FURNISHED AND INSTALLED BY BID PACKAGE 12 CONTRACTOR.

WINDOW
3 A6.01 ELEVATIONS
1/4" = 1'-0"



DOOR
2 A6.01 ELEVATIONS
1/4" = 1'-0"



FRAME
1 A6.01 ELEVATIONS
1/4" = 1'-0"

DOOR SCHEDULE AND NOTES

OPENING			FRAME				DOOR		HDWR			REMARKS AND NOTES
DOOR NUMBER	WIDTH x HEIGHT	LABEL (HR)	ELEVATION	H / J DETAILS	SILL DETAIL	MATERIAL	ELEVATION	MATERIAL	HARDWARE SET NO.			
100	(2) 3'-0" x 7'-0"			8	9	ALSF	D-2	AL/GL	1			SEE ELEVATION 3/A2.01
101	(2) 3'-0" x 7'-0"		F-4	8	9	ALSF	D-2	AL/GL	2			
102	3'-0" x 7'-0"		F-3	5		ALUM	D-3	SCWD/GL	5			
103	3'-0" x 7'-0"		F-1	5		ALUM	D-1	SCWD	6			
104	3'-0" x 7'-0"		F-1	5		ALUM	D-1	SCWD	6			
105	3'-0" x 7'-0"		F-1	5		ALUM	D-1	SCWD	6			
106	3'-0" x 7'-0"		F-1	5		ALUM	D-1	SCWD	6			
107	3'-0" x 7'-0"		F-1	5		ALUM	D-1	SCWD	6			
108	NOT USED											
109	NOT USED											
110	3'-0" x 7'-0"		F-3	5		ALUM	D-1	SCWD	8			
111	3'-0" x 7'-0"		F-1	5		ALUM	D-3	SCWD/GL	5			
112	3'-0" x 7'-0"		F-1	5		ALUM	D-1	SCWD	8			
113A	3'-0" x 7'-0"		F-1	5		ALUM	D-1	SCWD	12			
113B	3'-0" x 7'-0"		F-5	10	11	HM	D-1	HM	11			
114	NOT USED											
115	3'-0" x 7'-0"		F-1	5		ALUM	D-1	SCWD	4			
116	3'-0" x 7'-0"		F-1	5		ALUM	D-1	SCWD	4			
117	3'-0" x 7'-0"		F-1	5		ALUM	D-1	SCWD	4			
118	3'-0" x 7'-0"		F-1	5		ALUM	D-1	SCWD	4			
119	3'-0" x 7'-0"		F-1	6		ALUM	D-1	SCWD	3			
120	3'-0" x 7'-0"		F-1	6		ALUM	D-1	SCWD	3			
121A	(2) 3'-0" x 7'-0"		F-2	12		ALUM	D-1	SCWD	15			
121B	(2) 3'-0" x 7'-0"		F-6	10	11	HM	D-1	HM	16			
122	3'-0" x 7'-0"		F-1	5		ALUM	D-3	SCWD	17			
123	3'-0" x 7'-0"		F-1	5		ALUM	D-1	SCWD	14			
124	3'-0" x 7'-0"		F-1	6		ALUM	D-1	SCWD	10			
125	3'-0" x 7'-0"		F-1	6		ALUM	D-1	SCWD	10			
126	NOT USED											
127	3'-0" x 7'-0"		F-3	5		ALUM	D-1	SCWD	8			
128	NOT USED											
129	(2) 3'-0" x 7'-0"		F-2	5		ALUM	D-1	SCWD	15			
130	3'-0" x 7'-0"		F-1	5		ALUM	D-1	SCWD	9			
131	3'-0" x 7'-0"		F-1	5		ALUM	D-3	SCWD	17			
132	3'-0" x 7'-0"		F-1	5		ALUM	D-1	SCWD	13			
133	3'-0" x 7'-0"		F-1	5		ALUM	D-1	SCWD	14			
134	3'-0" x 7'-0"		F-1	5		ALUM	D-1	SCWD	14			
135	(2) 3'-0" x 7'-0"		F-6	10	11	HM	D-1	HM	16			
136	3'-0" x 7'-0"		F-1	5		ALUM	D-1	SCWD	7			

KEY NOTES

1. EXISTING CONSTRUCTION.
2. EXISTING EXTERIOR ALUMINUM STOREFRONT DOOR/WINDOW SYSTEM.
3. EXISTING OR NEW CONCRETE SLAB, SEE PLAN FOR LOCATIONS.
4. THRESHOLD - FURNISHED BY (BP-11) INSTALLED BY (BP-13) COMPLY WITH ACCESSIBILITY REQUIREMENTS.
5. ALUMINUM STOREFRONT SYSTEM (BP-12)
6. EXISTING EXTERIOR MASONRY WALL.
7. GLAZING. (BP-12)
8. TEMPERED TRANSPARENT MIRRORED GLASS PER SPECS, U.N.O.
9. INTERIOR METAL STUDS - SEE FLOOR PLAN FOR WALL TYPES / THICKNESS. (BP-13)
10. 5/8" GYPSUM BOARD. (BP-13)
11. TILE (BP-14)
12. CONTINUOUS SEALANT (BP-17)
13. INTERIOR ALUMINUM DOOR/WINDOW FRAME SYSTEM (BP-11), INSTALLATION (BP-13)
14. HOLLOW METAL DOOR FRAME. FURNISHED BY (BP-11), INSTALLATION (BP-13).
15. DOOR PER SCHEDULE.
16. BLOCKING AND BREAK METAL TO MATCH STOREFRONT, OR EXTRUDED STOREFRONT SHAPE TO MATCH PROFILE INDICATED.
17. FLOOR FINISH MATERIAL PER SCHEDULE.
18. STEEL PLATE REINF. EXPANSION ANCHOR TO WALL - (SEE STRUCT.).
19. CORNER GUARD.
20. ½" EXPANSION JOINT MATERIAL.
21. STEEL COLUMN AND BASE PLATE - (SEE STRUCT.).
22. STEEL BEAM - (SEE STRUCT.).
23. ⅜" RESIN PANEL.
24. ¼" THRU BOLT WITH WASHERS AT 32" O.C. 3 PLACE MINIMUM PER RESIN PANEL.
25. 14 x 2" WOOD SCREW (3) PER BLOCKING.
26. 2X BLOCKING, 12L @ 32" O.C. 3 PLACE MINIMUM PER RESIN PANEL.

DOOR SCHEDULE NOTES

NOTE ABBREVIATIONS USED IN DOOR SCHEDULE:
HCWD - HOLLOW CORE WOOD DOOR
SCWD - SOLID CORE WOOD DOOR
HM - HOLLOW METAL
ALUM - ALUMINUM
ALSF - ALUMINUM STOREFRONT
AL/GL - ALUMINUM & GLASS

1. MANUALLY OPERATED OR SURFACE MOUNTED FLUSH BOLTS SHALL NOT BE INSTALLED ON EGRESS DOORS.
2. ALL DOOR AND WINDOW GLAZING SHALL BE ¼" MINIMUM CLEAR TEMPERED, UNLESS NOTED OTHERWISE. GLAZING FURNISHED AND INSTALLED BY BP-12.
3. DOOR CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM.
4. DOORS SHALL BE LOCATED 6" FROM ADJACENT WALL UNLESS NOTED OTHERWISE, OR AS REQUIRED FOR HARDWARE INSTALLATION.
5. ALL DOOR HARDWARE SHALL BE CODE COMPLIANT.
6. UNDERCUT DOORS WHERE INDICATED ON MECHANICAL DRAWINGS.
7. EXTERIOR HM DOORS SHALL BE INSULATED.
8. PROVIDE BLOCKING FOR ALL DOOR STOPS. SEE TYP. BLOCKING DETAIL ON SHEET A4.01.
9. HARDWARE FURNISHED BY BP-11, INSTALLED BY BP-13, U.N.O.

FINISH NOTES

1. PAINT HM DOORS: P-
2. PAINT HM FRAMES: P-
3. INTERIOR WOOD DOORS: PLASTIC LAMINATE FINISH: PL-2, WISPERING WIND
4. DO NOT PAINT PRE-FINISHED ITEMS SUCH AS HARDWARE, ALUM STOREFRONT, ETC.

PROFESSIONAL SEAL

REGISTERED ARCHITECT · WILLIAM P. CASLER · 24530 · STATE OF TEXAS

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

GCAM Plasma

419 E. UNIVERSITY DRIVE
EDINBURG, TX 78539

ARCHITECT:

CASLER DESIGN GROUP, INC.
Architecture • Planning • Interior Design
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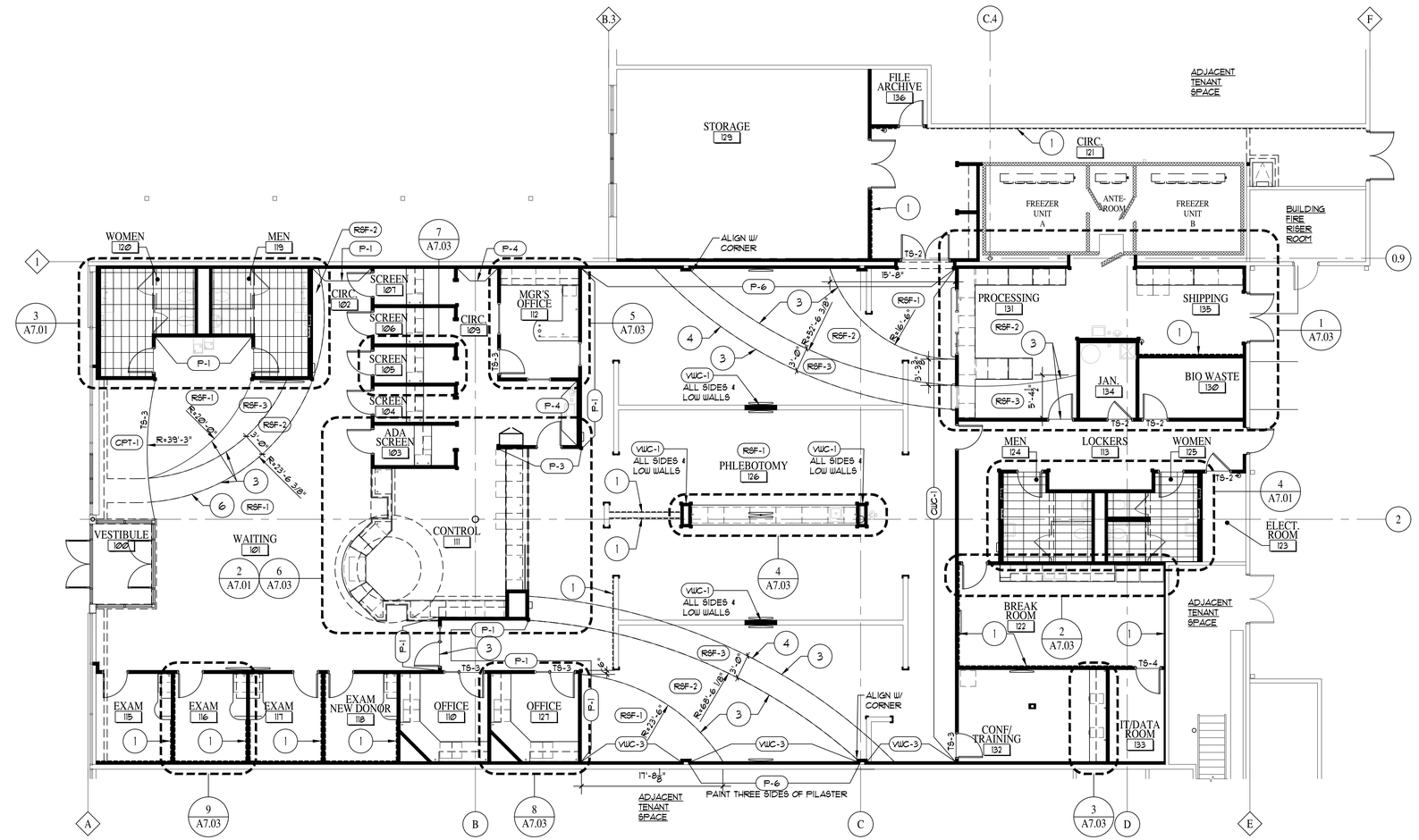
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DOOR SCHEDULE AND DETAILS

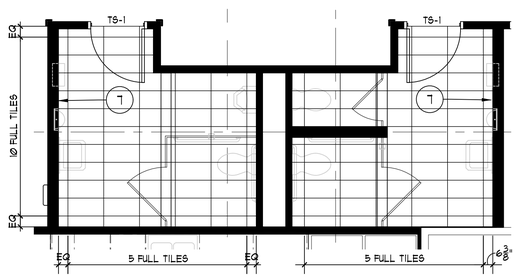
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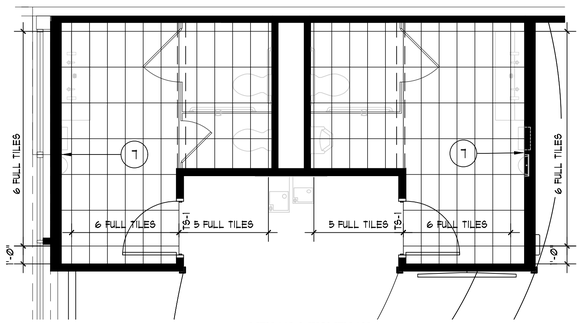
1 A7.01 FINISH PLAN
SCALE: 1/8" = 1'-0"

KEY NOTES

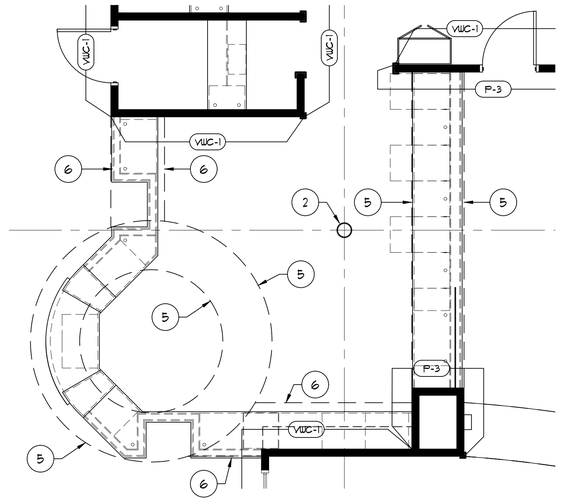
1. CRASH RAIL: WP-1.
2. PAINT STEEL COLUMN P-2. (BP-17)
3. RESILIENT SHEET FLOORING COLOR/PATTERN TRANSITION
4. PAINT CURVED SOFFIT ABOVE P-5
5. PAINT SOFFIT ABOVE P-3
6. PAINT SOFFIT ABOVE P-4
7. SEE TYPICAL TILE WALL ELEVATION 1/A7.02 (ALL WALLS)



MEN 124 & WOMEN 125
4 A7.01 FINISH PLAN
SCALE: 1/4" = 1'-0"



MEN 119 & WOMEN 120
3 A7.01 FINISH PLAN
SCALE: 1/4" = 1'-0"



2 A7.01 FINISH PLAN
SCALE: 1/4" = 1'-0"

PROFESSIONAL SEAL

REGISTERED ARCHITECT
WILLIAM P. CASLER
24530
STATE OF TEXAS

ISSUED FOR:

PERMIT/BID	03/07/2019

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FLOOR FINISH PLANS

A7.01

ROOM FINISH SCHEDULE

RM. NO.	ROOM NAME	FLOORING	BASE	WALLS N	WALLS S	WALLS E	WALLS W	WALLS ALL	CLG.	CLG. HEIGHT	REMARKS
100	VESTIBULE	RSF-1	-					VWC-1	APC-2	I.F.N. 2	I.F.N. - 5, 7, 11
101	WAITING	RSF-1	B-1					VWC-1	APC-1	I.F.N. 2	I.F.N. - 5, 7, 13, 14, 16, 18
102	CIRCULATION	RSF-1	B-1	VWC-1	VWC-1		P-1		APC-1	I.F.N. 2	I.F.N. - 13, 16, 18
103	SCREENING ROOM	RSF-1	B-1					VWC-2	APC-1	I.F.N. 2	I.F.N. - 10, 13, 18
104	SCREENING ROOM	RSF-1	B-1					VWC-2	APC-1	I.F.N. 2	I.F.N. - 10, 13, 18
105	SCREENING ROOM	RSF-1	B-1					VWC-2	APC-1	I.F.N. 2	I.F.N. - 10, 13, 18
106	SCREENING ROOM	RSF-1	B-1					VWC-2	APC-1	I.F.N. 2	I.F.N. - 10, 13, 18
107	SCREENING ROOM	RSF-1	B-1					VWC-2	APC-1	I.F.N. 2	I.F.N. - 10, 13, 18
108	(NOT USED)	-						-	-		
109	CIRCULATION	RSF-1	B-1	VWC-1	VWC-1		P-4		APC-1	I.F.N. 2	I.F.N. - 13, 18
110	OFFICE	CPT-1	B-1	P-3	P-6	P-6	P-6		APC-1	I.F.N. 2	I.F.N. - 10
111	CONTROL DESK	RSF-1	B-1					VWC-1	APC-1	I.F.N. 2	I.F.N. - 10, 13, 14, 16, 17, 18
112	MANAGER'S OFFICE	CPT-1	B-1	P-6	P-6	VWC-3	P-6		APC-1	I.F.N. 2	
113	LOCKERS	RSF-1	B-2	P-2	P-2	P-2	P-3		APC-1	I.F.N. 2	I.F.N. - 13, 18
114	(NOT USED)	-	-					-	-		
115	EXAM	RSF-1	B-1	P-6	P-6	VWC-3	P-6		APC-1	I.F.N. 2	I.F.N. - 10, 18
116	EXAM	RSF-1	B-1	P-6	P-6	VWC-3	P-6		APC-1	I.F.N. 2	
117	EXAM	RSF-1	B-1	P-6	P-6	VWC-3	P-6		APC-1	I.F.N. 2	I.F.N. - 10, 18
118	EXAM	RSF-1	B-1	P-6	P-6	VWC-3	P-6		APC-1	I.F.N. 2	I.F.N. - 10, 18
119	MEN	CTF-1	CT-2					CT-1, 2	P-1	I.F.N. 2	I.F.N. - 3, 4, 6, 12
120	WOMEN	CTF-1	CT-2					CT-1, 2	P-1	I.F.N. 2	I.F.N. - 3, 4, 6, 12
121	CIRCULATION	EFP-1	B-1					P-6	APC-2	I.F.N. 2	I.F.N. - 13, 18
122	BREAK ROOM	RSF-1	B-1	P-6	P-6	P-5	P-6		APC-1	I.F.N. 2	I.F.N. - 13, 18
123	ELECTRIC ROOM	EFP-1	B-2					P-2	ACP-2	I.F.N. 2	I.F.N. - 3, 8
124	MEN	CTF-2	CT-3					CT-13,4	APC-2	I.F.N. 2	I.F.N. - 3, 4, 6, 12
125	WOMEN	CTF-2	CT-3					CT-13,4	APC-2	I.F.N. 2	I.F.N. - 3, 4, 6, 12
126	PHLEBOTOMY WARD	RSF-1, 2, 3	B-1	CWC-1	P-1	VWC-3	P-6		ACTC	I.F.N. 2	I.F.N. - 9, 13, 18
127	OFFICE	CPT-1	B-1	P-3	P-6	P-6	P-6		APC-1	I.F.N. 2	I.F.N. - 10
128	(NOT USED)	-	-					-	-		
129	STORAGE	EFP-1	B-1					P-6	APC-2	I.F.N. 2	
130	BIO-WASTE	EFP-1	B-1					FRP-1	APC-2	I.F.N. 2	I.F.N. - 3
131	PROCESSING	RSF-2	B-1					P-2	APC-2	I.F.N. 2	I.F.N. - 3, 13, 18
132	CONF / TRAINING	CPT-1	B-1	P-2	VWC-2	VWC-2	VWC-2		ACP-1	I.F.N. 2	I.F.N. - 3
133	I.T. / DATA	SDT-1	B-1					P-2	APC-2	I.F.N. 2	I.F.N. - 3, 8
134	JANITOR	EFP-1	B-1					P-6	APC-2	I.F.N. 2	I.F.N. - 3, 19
135	SHIPPING	RSF-2	B-1					P-6	APC-2	I.F.N. 2	I.F.N. - 13, 18
136	ARCHIVE	RSF-2	B-1					P-2	ACP-2	I.F.N. 2	

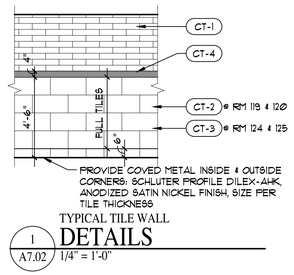
INTERIOR FINISH NOTES (I.F.N.)

1. ALL FINISHES INSTALLED SHALL COMPLY WITH CHAPTER 8, SPECIFICALLY TABLE 803.9, FOR FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS.
2. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
3. REFER TO 2/A7.02 FOR TYPICAL FLOORING TRANSITION DETAILS.
4. PROVIDE COVED METAL CORNER(S).
5. APPLY LISTED WALL FINISH TO GYPSUM BOARD SURFACES ABOVE STOREFRONT.
6. PROVIDE CEMENTITIOUS BACKER UNITS FULL HEIGHT BEHIND CERAMIC TILE.
7. OMIT RESILIENT BASE AT ALUMINUM ENTRANCES / STOREFRONT FRAMING.
8. 3/4" X 8'-0" HIGH, FRT PLYWOOD CONSTRUCTION PANEL TO BE INSTALLED OVER GYP. BD. SEE FLOOR PLAN FOR LOCATIONS. HOLD BOTTOM EDGE 4" A.F.F. FOR INSTALLATION OF WALL BASE.
9. ALL PARTIAL HEIGHT WALLS TO RECEIVE VINYL WALLCOVERING (VWC-1).
10. FLOOR FINISH TO BE CONTINUOUS UNDER MILLWORK.
11. VWC ON VERTICAL SURFACE OF SOFFIT, PAINT HORIZONTAL SURFACE CEILING WHITE.
12. REFER TO TYPICAL TILE WALL DETAIL 1/A7.02.
13. SEE FLOOR PLAN FOR CORNER GUARD AND CRASH RAIL LOCATIONS. COLOR AS INDICATED ON FINISH SCHEDULE REMARKS.
14. REFER TO FINISH PLAN A7.01 FOR CLARIFICATION OF FINISH TRANSITIONS.
15. VWC TO BE FURNISHED BY CONSTRUCTION MANAGER - INSTALLED BY BP-17. BP-17 CONTRACTOR TO CONFIRM MATERIAL QUANTITIES AND PROVIDE ADHESIVES.
16. SOFFIT FINISH - REFERENCE FINISH PLAN
17. P-4 PAINT FINISH ON WALLS NOT INDICATED TO RECEIVE VWC.
18. WALL PROTECTION COLOR WP-1
19. FRP-1 WAINSCOT TO 4'-0" A.F.F.

FINISH MATERIALS SCHEDULE

	ITEM DESCRIPTION	MANUFACTURER	PRODUCT NAME	PRODUCT NUMBER	COLOR	REMARKS
FLOORING						
RSF-1	RESILIENT SHEET FLOORING	MANNINGTON	REALITIES II, BOARDWALK	566TR	COCONUT	HEAT WELD COLOR TO MATCH
RSF-2	RESILIENT SHEET FLOORING	SHAW	BASSTONES, 03001V	750	GILDED MINK	HEAT WELD COLOR TO MATCH
RSF-3	RESILIENT SHEET FLOORING	SHAW	BASSTONES, 03001V	310	UNDERSCORE	HEAT WELD COLOR TO MATCH
CPT-1	CARPET TILE	SHAW	TECHNIQUE TILE, 5T022	22516	BLACK TEA	
CTF-1	PORCELAIN TILE	DAL TILE	FABRIQUE	P630, MATTE	GRIS LINEN	12" X 24" X 3/8"
CTF-2	PORCELAIN TILE	DAL TILE	FABRIQUE	P686, MATTE	CREME LINEN	12" X 12" X 3/8"
SDT-1	STATIC DISSIPATIVE TILE	ARMSTRONG	SDT	51950	MARBLE BEIGE	12" X 12" X 1/8"
EFP-1	EPOXY FLOOR PAINT	SHERWIN WILLIAMS	EPOXY		TO MATCH B-1 COLOR	SLIP RESISTANT
BASE						
B-1	RUBBER WALL BASE	BURKE	BURKEBASE TP	527	CLAY	COVE PROFILE, 4" HEIGHT
B-2	RUBBER WALL BASE	BURKE	BURKEBASE TP	597	MOCHA	COVE PROFILE, 4" HEIGHT
WALL FINISH						
P-1	PAINT	SHERWIN WILLIAMS		SW 7008	ALABASTER	
P-2	PAINT	SHERWIN WILLIAMS		SW 7565	OYSTER BAR	
P-3	PAINT	SHERWIN WILLIAMS		SW 6408	WHEAT GRASS	
P-4	PAINT	SHERWIN WILLIAMS		SW 7039	VIRTUAL TAUPE	
P-5	PAINT	SHERWIN WILLIAMS		SW 6361	AUTUMNAL	
P-6	PAINT	SHERWIN WILLIAMS		SW 9111	ANTLER VELVET	
P-7	PAINT	SHERWIN WILLIAMS		SW 7012	CREAMY WHITE	
VWC-1	VINYL WALLCOVERING	KOROSEAL	LAVINA SILK	CD2-LVS-30	DHARMA BEIGE	
VWC-2	VINYL WALLCOVERING	KOROSEAL	LAVINA SILK	CD2-LVS-32	PALAIS WHITE	
VWC-3	VINYL WALLCOVERING	KOROSEAL	LAVINA SILK	CD2-LVS-25	SPRING STREET	
CWC-1	CUSTOM WALLCOVERING	KOROSEAL	DIGITAL WALL COVERING	FINE TEXTURE DSOLO3	IMAGE T.B.D.	
CT-1	CERAMIC WALL TILE	DAL TILE	ELEVARE	EL41	CRATER	4" X 18" X 3/8"
CT-2	CERAMIC WALL TILE	DAL TILE	UNITY	P402, POLISHED	GRIGIO	12" X 24" X 3/8"
CT-3	CERAMIC WALL TILE	DAL TILE	UNITY	P401, POLISHED	BEIGE	12" X 24" X 3/8"
CT-4	CERAMIC WALL TILE	CROSSVILLE	EBB & FLOW	EF03	FLORA AND FAUNA	1/2" X 1/2" X 1/4", LINEAR MIX
G-1	GROUT	TEC	-	-	ANTIQUE WHITE	TOILET ROOMS 119 & 120
G-2	GROUT	TEC	-	-	FRALINE	TOILET ROOMS 124 & 125
FRP-1	FIBER REINFORCED PLASTIC	PANOLAM	FRP	-	WHITE, SMOOTH FINISH	INCLUDE ALL TRIM ACCESSORIES
CEILING						
APC-1	ACOUSTICAL PANEL CEILING	USG	RADAR CLIMA PLUS	2207	WHITE 050	24" X 24", WHITE SUSPENSION GRID
APC-2	ACOUSTICAL PANEL CEILING	USG	RADAR CLIMA PLUS	2407	WHITE 050	24" X 48", WHITE SUSPENSION GRID
	EXTRUDED STEEL TRIM	USG	COMPASSO	STANDARD	WHITE	12" PROFILE
CASEWORK						
PL-1	PLASTIC LAMINATE	NEVAMAR		UK0025T	CHAI	TEXTURED
PL-2	PLASTIC LAMINATE	NEVAMAR		WX46600-VE	WHISPERING WIND	VELVET
SSM-1	SOLID SURFACE MATERIAL	DUPONT	CORIAN		NEUTRAL CONCRETE	
SSM-2	SOLID SURFACE MATERIAL	DUPONT	CORIAN		SORREL	
SSM-3	SOLID SURFACE MATERIAL	DUPONT	CORIAN		CANVAS	
MTL-1	METAL TRIM	CHEMETAL	-	712	BRUSHED SS	EASE EXPOSED CORNERS & EDGES
WP-1	CRASHRAIL/CORNER GUARD	ACRYOVYN 4000	CRASH RAIL / CORNER	REFERENCE SPECS	103-BEIGE	
FRP-1	FIBERGLASS REINFORCED PLASTIC	MARLITE		P-106	BEIGE	
FRL-1	FIBER REINFORCED LAMINATE	PIONITE		F5217-SD	GREIGE	
RP-1	RESIN PANEL	3FORM	VARIA ECORESIN	SANDSTONE FINISH FRONT & BACK	THICKET NATURAL	3/8" THK, LINEAR PARALLEL TO 4'-0"

FLOOR TRANSITION
2 / A7.02 DETAILS
6" = 1'-0"



TYPICAL TILE WALL
1 / A7.02 DETAILS
1/4" = 1'-0"

PROFESSIONAL SEAL

REGISTERED ARCHITECT WILLIAM P. CASLER 24530 STATE OF TEXAS

ISSUED FOR:

PERMIT/BID	03/07/2019

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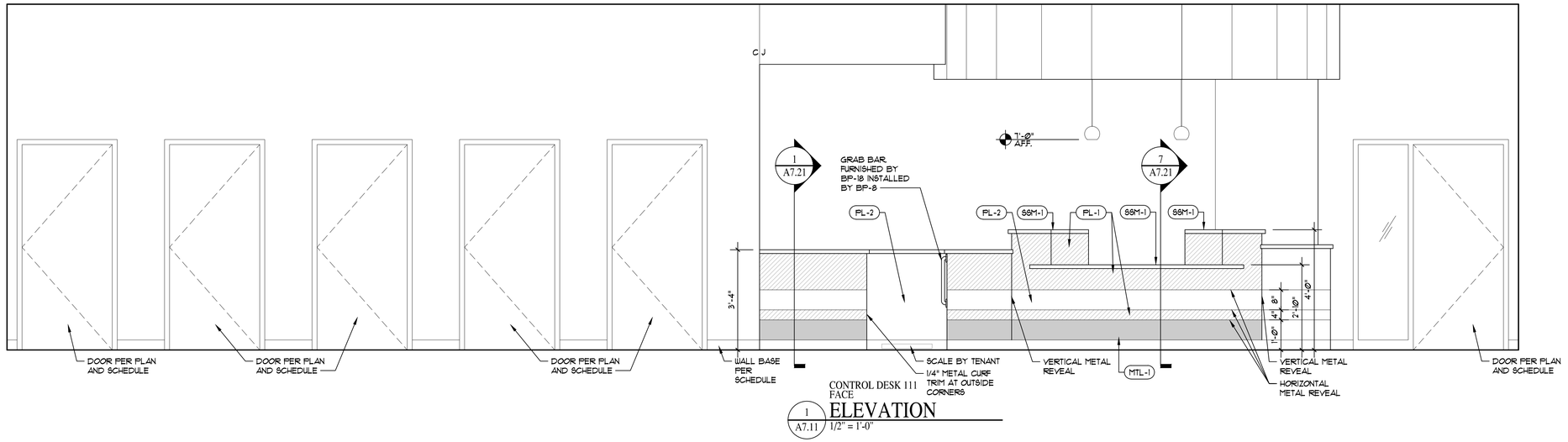
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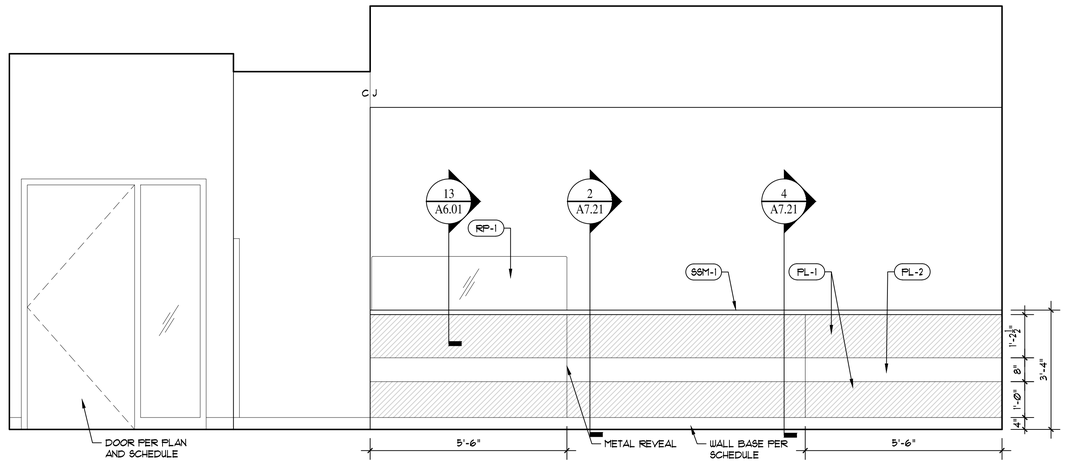
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FINISH SCHEDULES

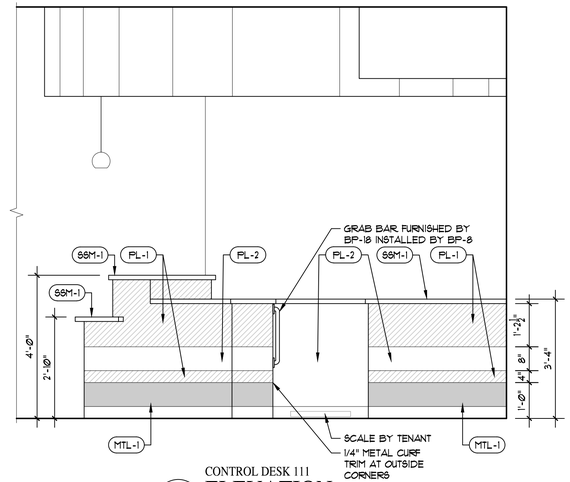
A7.02



CONTROL DESK 111
FACE
1 / A7.11 ELEVATION
1/2" = 1'-0"



CONTROL DESK 111
3 / A7.11 ELEVATION
1/2" = 1'-0"



CONTROL DESK 111
2 / A7.11 ELEVATION
1/2" = 1'-0"

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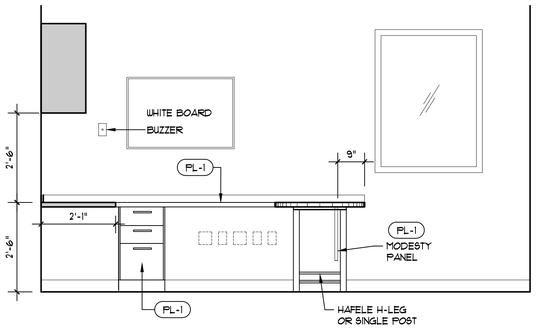
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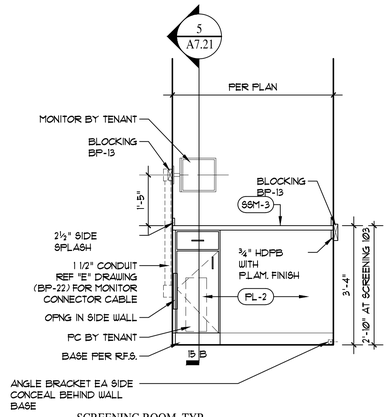
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CASEWORK
ELEVATIONS

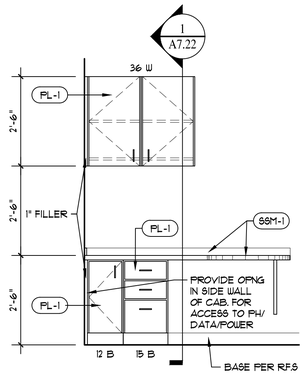
A7.11



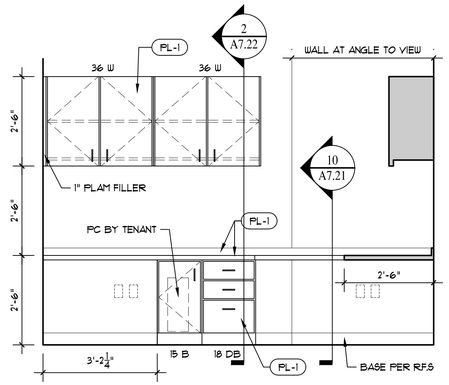
MGR OFFICE CABINETRY
5 A7.12 ELEVATION
1/2" = 1'-0"



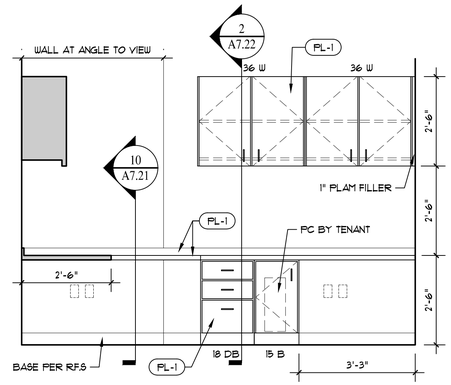
SCREENING ROOM, TYP. CABINETRY
4 A7.12 ELEVATION
1/2" = 1'-0"



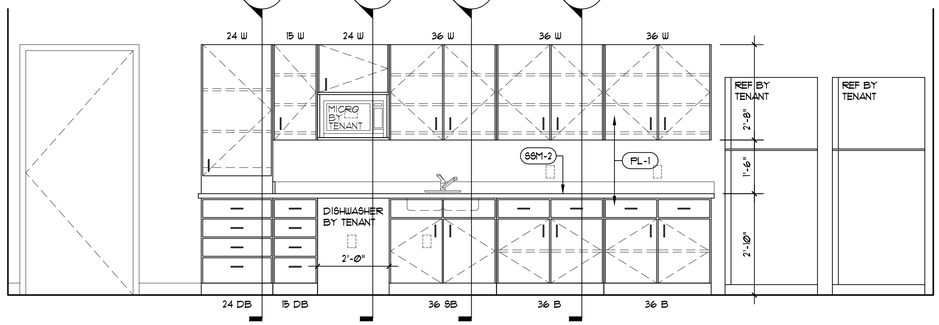
TYPICAL EXAM RM CABINETRY
3 A7.12 ELEVATION
1/2" = 1'-0"



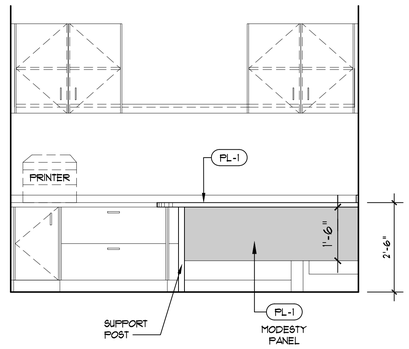
TYPICAL OFFICE CABINETRY
2 A7.12 ELEVATION
1/2" = 1'-0"



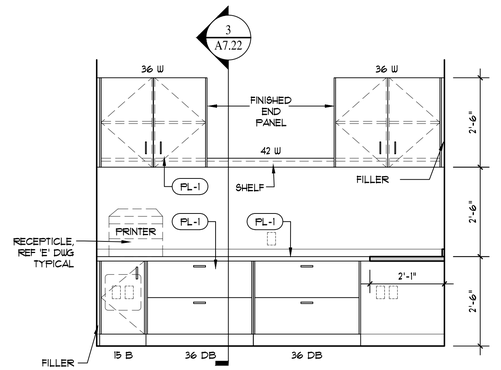
TYPICAL OFFICE CABINETRY
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1/2" = 1'-0"



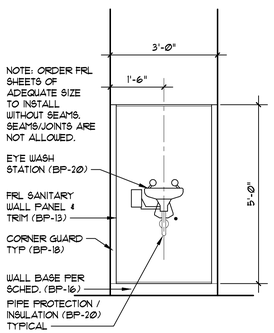
BREAK ROOM 122 CABINETRY
8 A7.12 ELEVATION
1/2" = 1'-0"



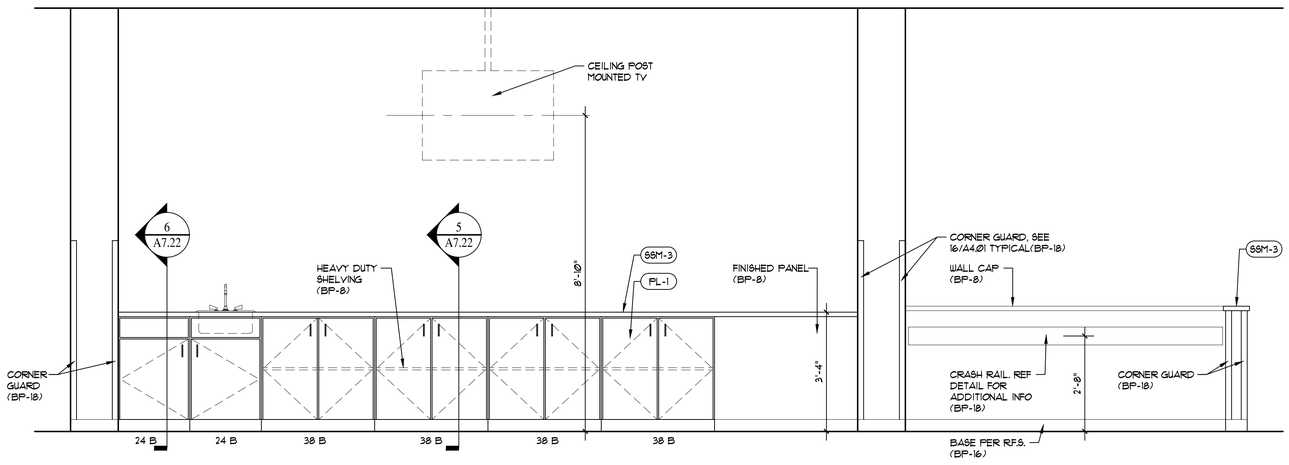
MGR OFFICE CABINETRY
7 A7.12 ELEVATION
SCALE: 1/2" = 1'-0"



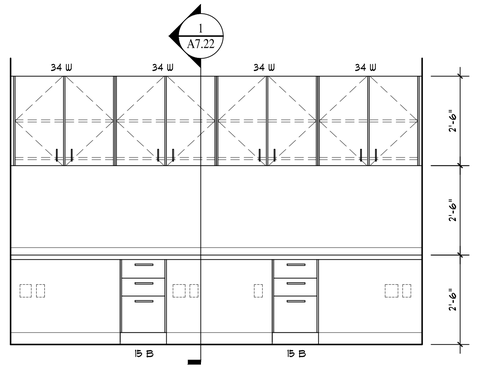
MGR OFFICE CABINETRY
6 A7.12 ELEVATION
SCALE: 1/2" = 1'-0"



PHLEBOTOMY WARD CABINETRY
11 A7.12 ELEVATION
1/2" = 1'-0"



PHLEBOTOMY WARD CABINETRY
10 A7.12 ELEVATION
1/2" = 1'-0"



CONF. / TRAINING ROOM CABINETRY
9 A7.12 ELEVATION
1/2" = 1'-0"

PROFESSIONAL SEAL

REGISTERED ARCHITECT
WILLIAM P. CASLER
24530
STATE OF TEXAS

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

GCAM Plasma
419 E. UNIVERSITY DRIVE
EDINBURG, TX 78539

ARCHITECT:

CASLER
DESIGN GROUP, INC.
Architecture • Planning • Interior Design
10805 Indeco Drive • Cincinnati, Ohio 45241
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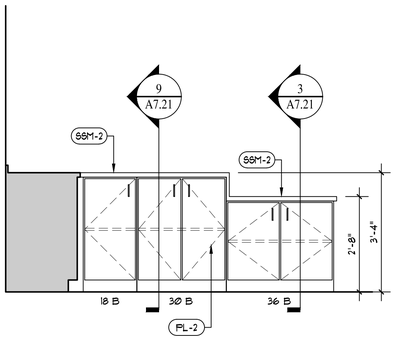
CONSULTANTS:

JOB NUMBER	2674.0010
DRAWN BY	SMK/FWK
CHECKED BY	SMK

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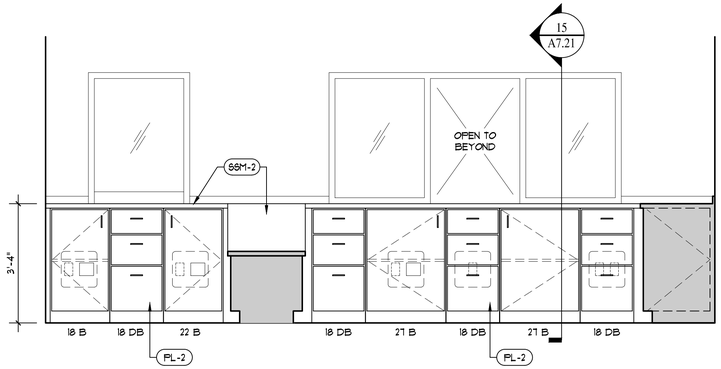
CASEWORK ELEVATIONS

A7.12



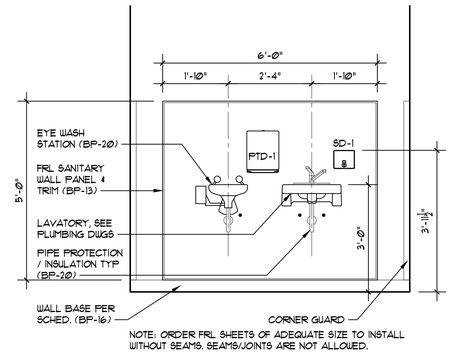
PROCESSING & SHIPPING CABINETRY

3 A7.13 ELEVATION 1/2" = 1'-0"



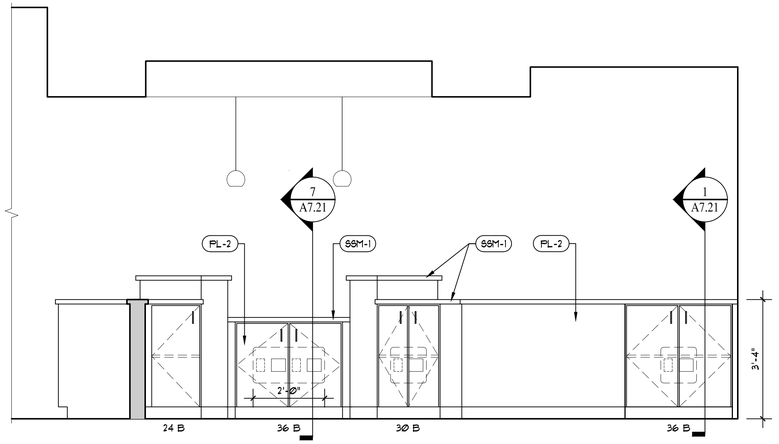
PROCESSING & SHIPPING CABINETRY

2 A7.13 ELEVATION 1/2" = 1'-0"



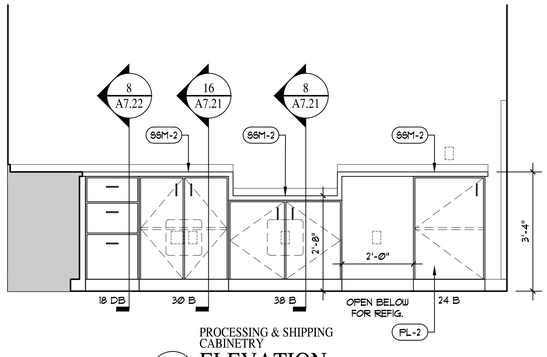
PROCESSING & SHIPPING CABINETRY

1 A7.13 ELEVATION 1/2" = 1'-0"



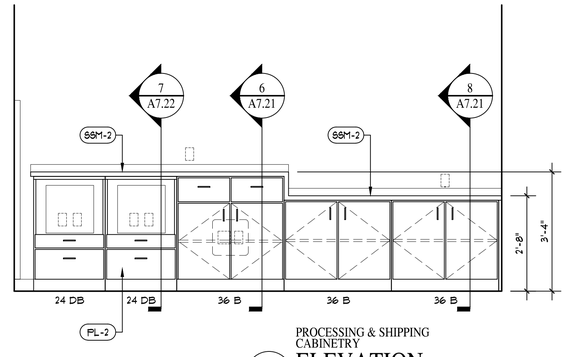
CONTROL DESK CABINETRY

6 A7.13 ELEVATION 1/2" = 1'-0"



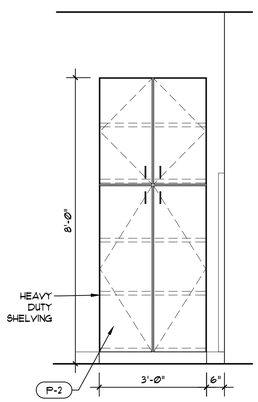
PROCESSING & SHIPPING CABINETRY

5 A7.13 ELEVATION 1/2" = 1'-0"



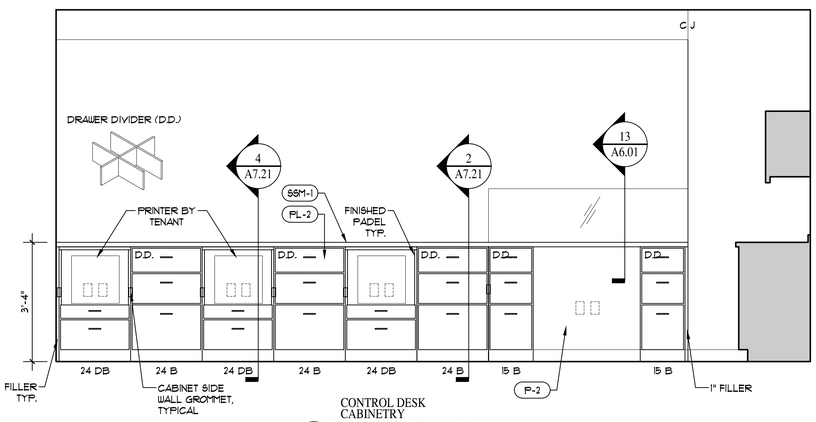
PROCESSING & SHIPPING CABINETRY

4 A7.13 ELEVATION 1/2" = 1'-0"



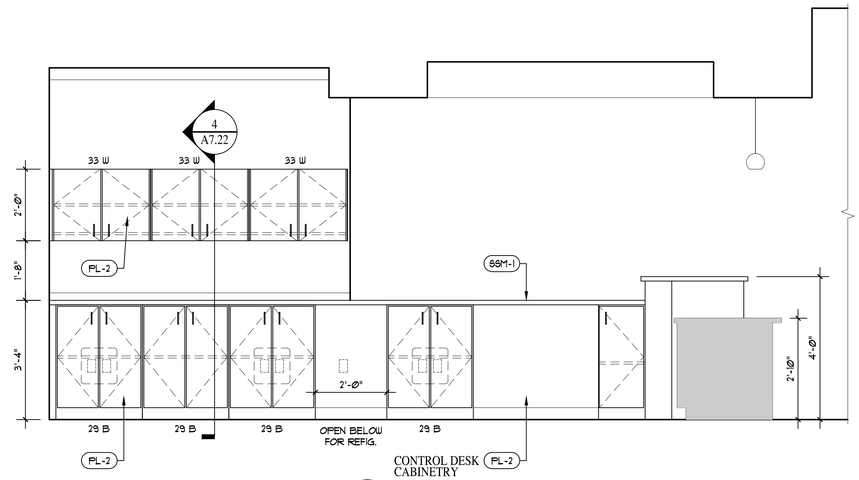
CABINETRY

9 A7.13 ELEVATION 1/2" = 1'-0"



CONTROL DESK CABINETRY

8 A7.13 ELEVATION 1/2" = 1'-0"



CONTROL DESK CABINETRY

7 A7.13 ELEVATION 1/2" = 1'-0"

PROFESSIONAL SEAL

REGISTERED ARCHITECT WILLIAM P. CASLER 24530 STATE OF TEXAS

ISSUED FOR:

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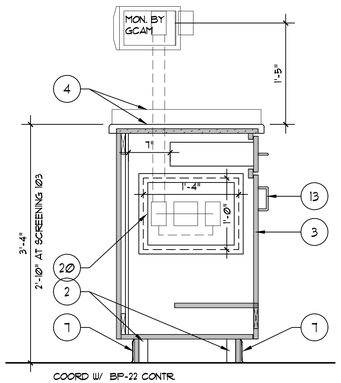
CONSULTANTS:

JOB NUMBER	2674.0010
DRAWN BY	SMK/FWK
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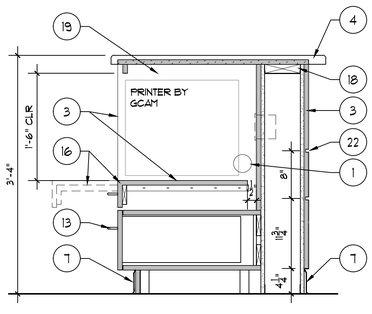
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CASEWORK ELEVATIONS

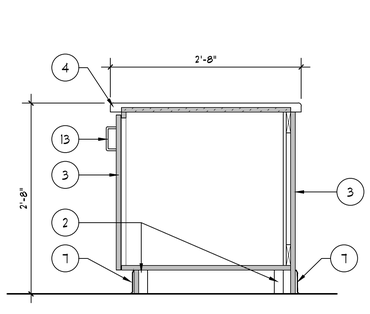
A7.13



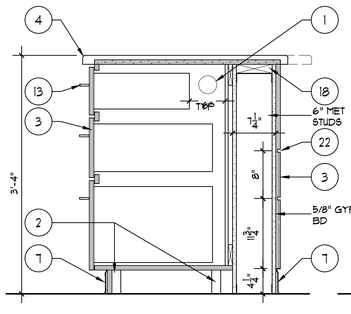
CABINETRY SECTION 5 / A7.21 1" = 1'-0"



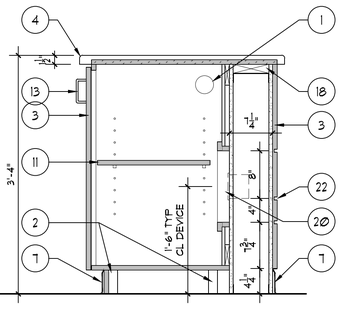
CABINETRY SECTION 4 / A7.21 1" = 1'-0"



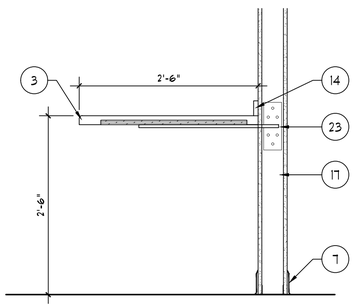
CABINETRY SECTION 3 / A7.21 1" = 1'-0"



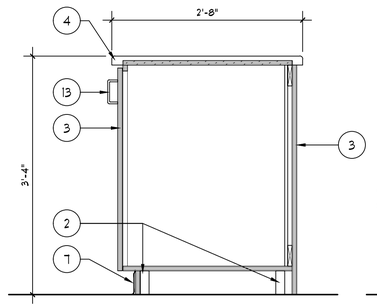
CABINETRY SECTION 2 / A7.21 1" = 1'-0"



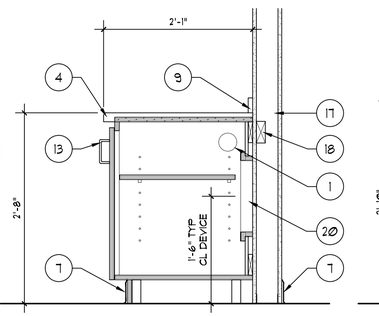
CABINETRY SECTION 1 / A7.21 1" = 1'-0"



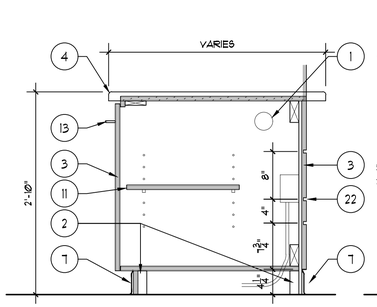
CABINETRY SECTION 10 / A7.21 1" = 1'-0"



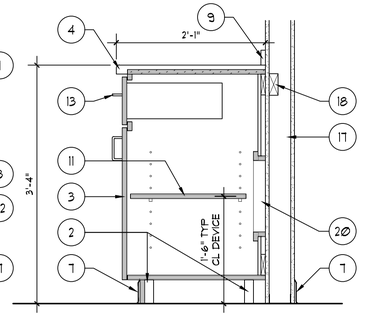
CABINETRY SECTION 9 / A7.21 1" = 1'-0"



CABINETRY SECTION 8 / A7.21 1" = 1'-0"



CABINETRY SECTION 7 / A7.21 1" = 1'-0"



CABINETRY SECTION 6 / A7.21 1" = 1'-0"

DRAWING NOTES

A. ALL WORK ON THIS SHEET SHALL BE PART OF BID PACKAGE 8 (BP-8) CONTRACTOR UNLESS NOTED OTHERWISE.

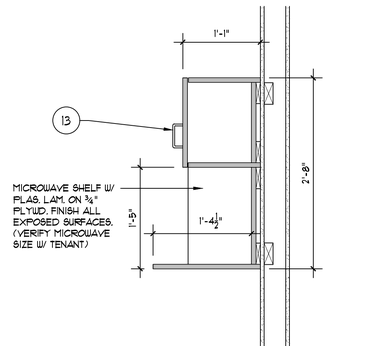
B. ALL EXPOSED MILLWORK EDGES TO BE FINISHED WITH PLASTIC LAMINATE, UNLESS NOTED OTHERWISE.

C. INTERIOR OF ALL MILLWORK TO BE FINISHED WITH CABINET LINER ON HIGH DENSITY PARTICLE BOARD.

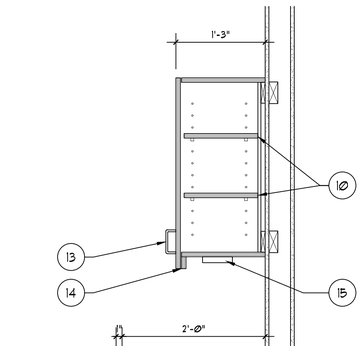
D. AT OPENINGS IN CASEWORK FOR ACCESS TO POWER/DATA/PHONE OUTLETS, EDGE OF OPENING SHALL BE FINISHED TO MATCH INTERIOR LINER. DEVICES SHOWN MAY VARY IN TYPE AND QUANTITY PER ELEC DWG. CENTER DEVICES AND OPENING IN CENTER OF CABINET TO THE GREATEST EXTENT POSSIBLE. COORDINATE W/ ELEC (BP-22) CONTRACTOR. NOTCH BACK EDGE OF SHELVES WIDTH OF OPNG BY DEPTH REQUIRED TO PASS POWER AND NETWORK CORDS.

KEY NOTES

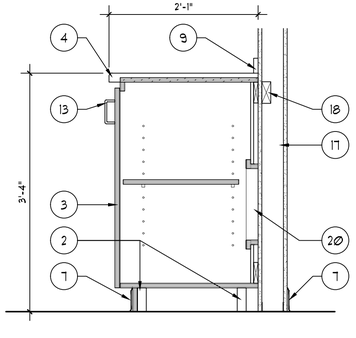
1. 3" SIDEWALL GROMMET. COORD W/ ELEVATIONS AND OWNER REQUIREMENTS.
2. ADJUSTABLE CABINETRY SUPPORT LEGS OR LEVEL BLOCKING.
3. PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLE BOARD, TYPICAL. SEE ELEVATIONS FOR TYPES.
4. SOLID SURFACE COUNTERTOP ON 3/4" PLYWOOD. 1 1/2" EDGE WITH EASED TOP EDGE.
5. SOLID SURFACE TOP.
6. SLIDING WINDOW (BP-12) WITH NO BOTTOM TRACK.
7. RUBBER BASE (BP-16)
8. 4" SOLID SURFACE BACKSPLASH.
9. 2 1/2" SOLID SURFACE BACKSPLASH.
10. (2) ADJUSTABLE SHELVES - PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLE BOARD.
11. (1) ADJUSTABLE SHELF - PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLE BOARD.
12. ICC/ANSI A117.1-2009 STANDARDS COMPLIANT FAUCET AND STAINLESS STEEL SINK. SEE "P" DWG (BP-20)
13. 4" WIRE CABINET PULLS, TYPICAL.
14. 2" PLASTIC LAMINATE VALANCE TO SHIELD SURFACE MOUNTED LIGHT FIXTURE.
15. UNDER-CABINET LIGHT FIXTURE (BP-22). REFER TO "E" DRAWINGS.
16. PULL-OUT SHELF WITH HEAVY DUTY, FULL EXTENSION DRAWER GLIDES.
17. WALL TYPE PER PLAN.
18. WOOD BLOCKING (BP-13)
19. FINISHED END PANEL
20. PROVIDE OPENING IN CASEWORK FOR ACCESS TO POWER/DATA OUTLETS. COORDINATE W/ CASEWORK ELEVATIONS AND "E" DWGS. TRIM/ FRAME OPENING WITH MFG'S STANDARD EDGE TRIM, MITER FRAME CORNERS IF APPLICABLE.
21. CONTINUOUS COUNTERTOP THRU OPENING.
22. 1/4" X 1/4" ALUMINUM CHANNEL REVEAL, VERTICAL AND HORIZONTAL, SEE ELEVATIONS.
23. FILM FLOATING COUNTERTOP SUPPORT BRACKET (HIDDEN) 32" O.C. MAX. ANCHOR TO SOLID BLOCKED STUDS.



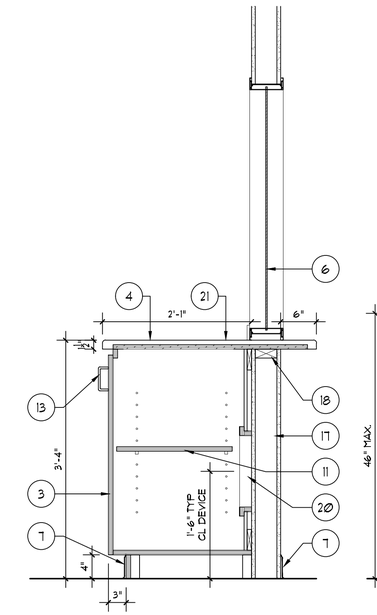
CABINETRY SECTION 12 / A7.21 1" = 1'-0"



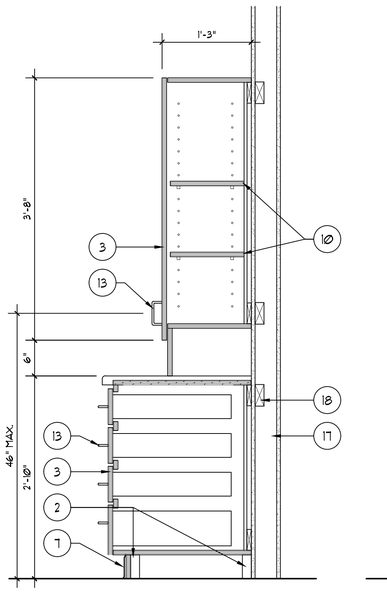
CABINETRY SECTION 11 / A7.21 1" = 1'-0"



CABINETRY SECTION 16 / A7.21 1" = 1'-0"



CABINETRY SECTION 15 / A7.21 1" = 1'-0"



CABINETRY SECTION 14 / A7.21 1" = 1'-0"

PROFESSIONAL SEAL

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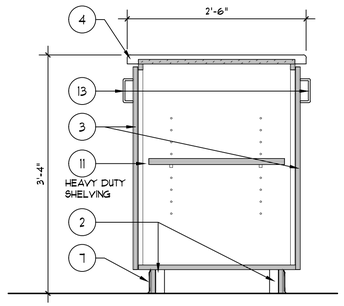
CONSULTANTS:

JOB NUMBER	2674.0010
DRAWN BY	SMK/FWK
CHECKED BY	SMK

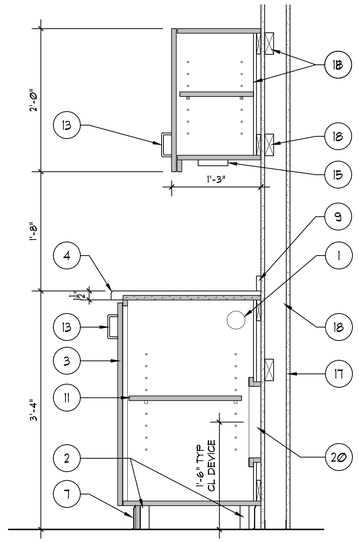
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CASEWORK SECTIONS AND DETAILS

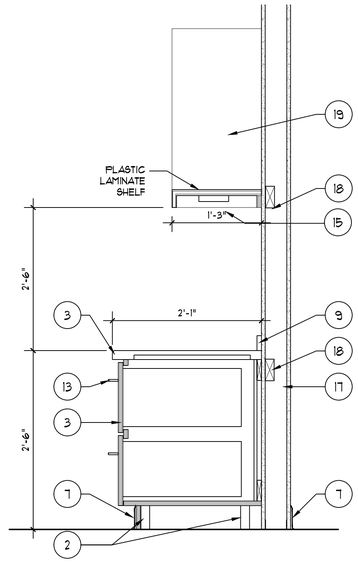
A7.21



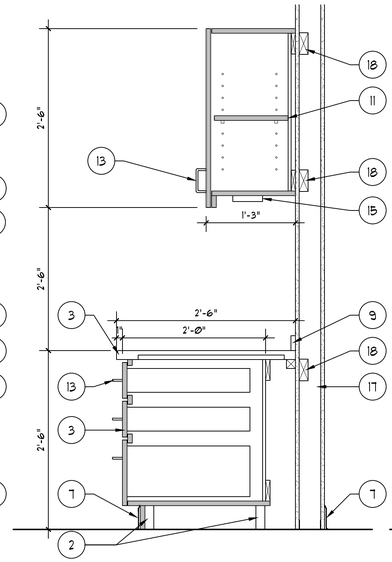
CABINETRY
5 / A7.22 SECTION
1" = 1'-0"



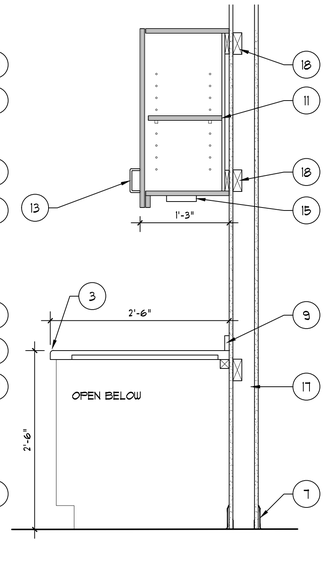
CABINETRY
4 / A7.22 SECTION
1" = 1'-0"



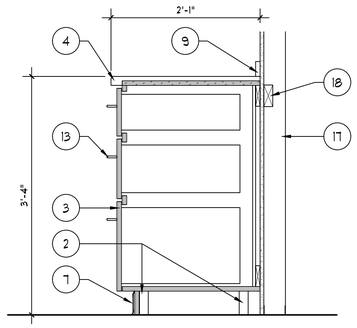
CABINETRY
3 / A7.22 SECTION
1" = 1'-0"



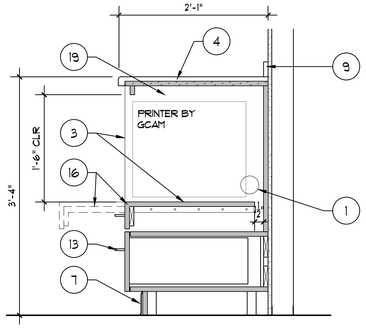
CABINETRY
2 / A7.22 SECTION
1" = 1'-0"



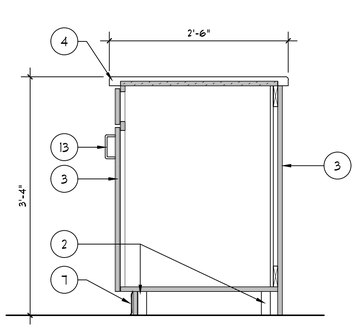
CABINETRY
1 / A7.22 SECTION
1" = 1'-0"



CABINETRY
8 / A7.22 SECTION
1" = 1'-0"



CABINETRY
7 / A7.22 SECTION
1" = 1'-0"



CABINETRY
6 / A7.22 SECTION
1" = 1'-0"

DRAWING NOTES

A. ALL WORK ON THIS SHEET SHALL BE PART OF BID PACKAGE 8 (BP-8) CONTRACTOR UNLESS NOTED OTHERWISE.

B. ALL EXPOSED MILLWORK EDGES TO BE FINISHED WITH PLASTIC LAMINATE, UNLESS NOTED OTHERWISE.

C. INTERIOR OF ALL MILLWORK TO BE FINISHED WITH CABINET LINER ON HIGH DENSITY PARTICLE BOARD.

D. AT OPENINGS IN CASEWORK FOR ACCESS TO POWER/DATA/PHONE OUTLETS, EDGE OF OPENING SHALL BE FINISHED TO MATCH INTERIOR LINER. DEVICES SHOWN MAY VARY IN TYPE AND QUANTITY PER ELEC DWG. CENTER DEVICES AND OPENING IN CENTER OF CABINET TO THE GREATEST EXTENT POSSIBLE. COORDINATE W/ ELEC (BP-22) CONTRACTOR. NOTCH BACK EDGE OF SHELVES WIDTH OF OPNG BY DEPTH REQUIRED TO PASS POWER AND NETWORK CORDS.

KEY NOTES

1. 3" SIDEWALL GROMMET. COORD W/ ELEVATIONS AND OWNER REQUIREMENTS.
2. ADJUSTABLE CABINETRY SUPPORT LEGS OR LEVEL BLOCKING.
3. PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLE BOARD, TYPICAL. SEE ELEVATIONS FOR TYPES.
4. SOLID SURFACE COUNTERTOP ON 3/4" PLYWOOD. 1 1/2" EDGE WITH EASED TOP EDGE.
5. SOLID SURFACE TOP.
6. SLIDING WINDOW (BP-12) WITH NO BOTTOM TRACK.
7. RUBBER BASE (BP-16)
8. 4" SOLID SURFACE BACKSPLASH.
9. 2 1/2" SOLID SURFACE BACKSPLASH.
10. (2) ADJUSTABLE SHELVES - PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLE BOARD.
11. (1) ADJUSTABLE SHELF - PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLE BOARD.
12. ICC/ANSI A117.1-2009 STANDARDS COMPLIANT FAUCET AND STAINLESS STEEL SINK: SEE "P" DWG (BP-26)
13. 4" WIRE CABINET PULLS, TYPICAL.
14. 2" PLASTIC LAMINATE VALANCE TO SHIELD SURFACE MOUNTED LIGHT FIXTURE.
15. UNDER-CABINET LIGHT FIXTURE (BP-22). REFER TO "E" DRAWINGS.
16. PULL-OUT SHELF WITH HEAVY DUTY, FULL EXTENSION DRAWER GLIDES.
17. WALL TYPE PER PLAN.
18. WOOD BLOCKING (BP-13)
19. FINISHED END PANEL
20. PROVIDE OPENING IN CASEWORK FOR ACCESS TO POWER/DATA OUTLETS. COORDINATE W CASEWORK ELEVATIONS AND "E" DWGS. TRIM/FRAME OPENING WITH MFG'S STANDARD EDGE TRIM, MITER FRAME CORNERS IF APPLICABLE.
21. CONTINUOUS COUNTERTOP THRU OPENING.
22. 1/4" X 1/4" ALUMINUM CHANNEL REVEAL, VERTICAL AND HORIZONATAL, SEE ELEVATIONS.
23. FLUM FLOATING COUNTERTOP SUPPORT BRACKET (HIDDEN) 32" O.C. MAX. ANCHOR TO SOLID BLOCKED STUDS.

PROFESSIONAL SEAL

REGISTERED ARCHITECT
WILLIAM P. CASLER
24530
STATE OF TEXAS

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

GCAM Plasma
419 E. UNIVERSITY DRIVE
EDINBURG, TX 78539

ARCHITECT:

CASLER DESIGN GROUP, INC.
Architecture • Planning • Interior Design
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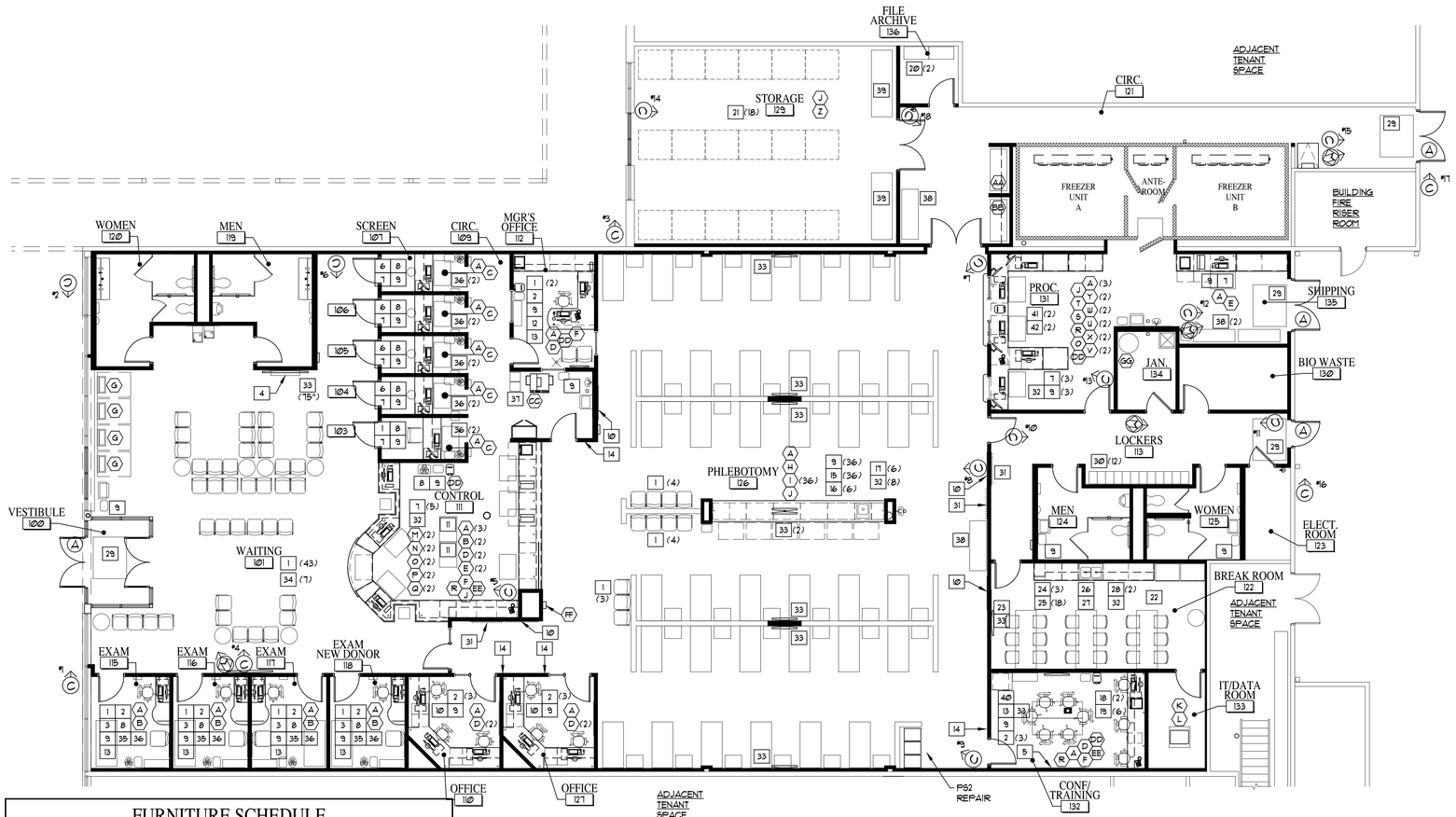
CONSULTANTS:

JOB NUMBER	2674.0010
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CASEWORK SECTIONS AND DETAILS

A7.22



EQUIPMENT AND
FURNITURE PLAN
1 / F1.01 — 1/8" = 1'-0"

FURNITURE SCHEDULE

* ITEM	ITEM DESCRIPTION	QTY. #	(*) = ITEM • QUANTITY REMARKS
1	GUEST CHAIR	61	
2	OFFICE CHAIR	15	
3	EXAM BED	4	
4	DISPLAY	1	PROVIDE BLOCKING AND INSTALLATION
5	8' WHITE BOARD	1	PROVIDE BLOCKING AND INSTALLATION
6	DONOR STOOL	4	
7	CUSHIONED FLOOR MAT	14	
8	BIO-WASTE RECEPTICLE	10	
9	TRASH RECEPTICLE	57	
10	4' WHITE BOARD	6	PROVIDE BLOCKING AND INSTALLATION
11	ROTARY ACTION FILE	2	
12	HALL TREE	1	
13	BOOK CASE	6	
14	COAT HOOK	4	PROVIDE BLOCKING AND INSTALLATION
15	PLASMA DONOR BED	36	
16	DC CART	6	
17	SOFT GOODS CART	6	
18	TRAINING TABLE	2	24x72, W/ POWER & DATA CONNECTIONS
19	CONFERENCE CHAIRS	6	
20	LATERAL FILE, 5 DRWR	2	LOCKABLE
21	PLASTIC PALLET	18	
22	KITCHEN TRASH CAN	1	
23	BULLETIN BOARD	1	PROVIDE BLOCKING AND INSTALLATION
24	BREAK ROOM TABLE	3	30 X 84 TABLE
25	BREAK ROOM CHAIR	18	
26	MICROWAVE	1	
27	DISHWASHER	1	
28	REFRIGERATOR	2	WITH WATER HOOK-UP AND ICE MAKER
29	WALK-OFF FLOOR MAT	4	
30	LOCKERS	12	12 X 18 3-TIER UNIT, PROVIDE BLOCKING
31	LAB COAT HOOK RAIL	3	PROVIDE BLOCKING AND INSTALLATION
32	WALL CLOCK	11	PROVIDE BLOCKING AND INSTALLATION
33	TV / MONITOR	11	55" (U.N.O.) PROVIDE BLOCKING AND INSTALLATION
34	GUEST TABLE	7	WAITING AREA
35	WHITE BD & BULLETIN BD	4	EXAM RM, PROVIDE BLOCKING AND INSTALLATION
36	DONOR FOLDER BIN	14	PROVIDE BLOCKING AND INSTALLATION
37	FORMS CART/ORGANIZER	1 EACH	
38	MOBILE RACK/SHELVING	4	24 X 72
39	RACK	2	30 X 96
40	TABLE	1	24 X 30 (FOR COFFEE MAKER AND REF. BELOW)
41	BIO-WASTE CONTAINER	2	UNDER COUNTER IN CABINET
42	WASTE CONTAINER	2	UNDER COUNTER IN CABINET

EQUIPMENT SCHEDULE

* ITEM	ITEM DESCRIPTION	QTY.	(*) = ITEM • QUANTITY REMARKS
A	DMS PACKAGE	21	TOWER PC, MONITOR, KEYBOARD, MOUSE, SCANNER APPLICABLE MONITOR MOUNTING HDWR IF ANY - PROVIDE BLOCKING AND INSTALLATION
B	PS PACKAGE	6	
C	WELCH ALLYN	5	
D	PC PACKAGE	8	PC, MONITOR, KEYBOARD, MOUSE - PROVIDE BLOCKING AND INSTALLATION
E	ZEBRA PRINTER	3	
F	HP PRINTER	3	
G	KIOSK STATION	4	
H	EMERGENCY PACKAGE	1	
I	PCS-2	36	
J	THERMOMETER	4	
K	RACK	1	WITH CABLE TRAY
L	PATCH PANEL	1	
M	SCALE	2	
N	BLACKLIGHT	2	
O	CENTRIFUGE	3	
P	REFRACTOMETER	2	
Q	SHEILD	2	
R	REFRIGERATOR	3	UNDER COUNTER
S	HEAT SEALER	1	
T	FREEZER	1	ANTE-ROOM, FREEZER 'A' & FREEZER 'B'
U	GRAPH CHART	2	
V	PROBE HOLDER	2	
W	PROBE	2	
X	RACK	2	
Y	ALARM MONITOR	2	
Z	LADDER	1	6 FT.
AA	FRESH LINEN RACK	1	
BB	SOILED LINEN CONTAINER	1	
CC	COPIER / PRINTER	1	
DD	PAPER SHREDDER	4	
EE	PHONE	2	
FF	EMPL. TIME CLOCK	1	PROVIDE BLOCKING AND INSTALLATION
GG	SHOP VAC	1	

GENERAL NOTES

1. FURNITURE LAYOUT SHOWN IS FOR REFERENCE ONLY. ACTUAL FURNITURE, FIXTURES AND EQUIPMENT (FF&E) SHALL BE BY TENANT.
2. ALL APPLIANCES, EQUIPMENT AND FURNITURE SHALL BE PROVIDED BY TENANT UNLESS OTHERWISE NOTED.
3. IT WILL BE THE RESPONSIBILITY OF THE TENANT TO MOVE ALL FURNITURE, PERSONAL ITEMS, COMPUTER AND ELECTRONIC EQUIPMENT.
4. BP-13 CONTRACTOR TO COORDINATE PROVISION AND INSTALLATION OF BLOCKING FOR ITEMS WHICH REQUIRE BLOCKING IN WALLS. ITEMS INCLUDED, BUT NOT LIMITED TO: COUNTER TOPS AND CABINETRY, SHELVING, SUPPLY DISPENSERS AND ORGANIZERS, TV WALL BRACKETS, LAB COAT HOOKS, TOILET ACCESSORIES, GRAB BARS, LOCKERS, DOOR STOPS, WALL MOUNTED FIXTURES, FIRE EXTINGUISHERS.
5. COORDINATE EXACT AND FINAL LOCATIONS WITH TENANT AND CONSTRUCTION MANAGER.
6. FURNITURE AND EQUIPMENT ITEMS SHOWN (AND NOT SHOWN) ARE FURNISHED BY THE TENANT UNDER A SEPARATE CONTRACT AND INSTALLED BY OTHERS UNLESS NOTED OTHERWISE IN THE CONSTRUCTION DOCUMENTS.

SECURITY LEGEND

NOTE: ALL WIRING SHALL BE CONCEALED. SECURITY SYSTEM WORK BY OTHERS UNDER SEPARATE CONTRACT WITH TENANT. VERIFY LOCATIONS WITH GCAM PRIOR TO ROUGH IN.

- (C) CAMERA *, WALL/CEILING MOUNT AS APPLICABLE
- MOTION DETECTOR *, WALL/CEILING MOUNT AS APPLICABLE
- (A) DOOR ALARM

PROFESSIONAL SEAL

REGISTERED ARCHITECT — WILLIAM P. CASLER — 24530 — STATE OF TEXAS

ISSUED FOR:

PERMIT/BID	03/07/2019

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CONSULTANTS:

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FF & E AND SECURITY PLAN

F1.01

SIGNAGE GENERAL NOTES (BP-19 U.N.O.)

1. INFORMATION PROVIDED IS GENERAL - ALL SIGNAGE MUST MEET THE MINIMUM REQUIREMENTS OF ALL APPLICABLE ZONING, BUILDING AND SAFETY CODES.
2. REFERENCES:
   - 2.1. 2012 TEXAS ACCESSIBILITY STANDARDS, ELIMINATION OF ARCHITECTURAL BARRIERS, TEXAS GOVERNMENT CODE CHAPTER 469.
   - 2.2. AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES, U.S. ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD.
3. THIS INFORMATION APPLIES TO EXTERIOR AND INTERIOR SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES. EXTERIOR SIGNS NOT LOCATED AT THE DOOR DO NOT APPLY.
4. ALL SIGNS ARE TO HAVE BOTH VISUAL AND TACTILE CHARACTERS. CHARACTERS (INCLUDING PICTOGRAMS) AND THEIR BACKGROUND SHALL HAVE A NO-GLARE FINISH. CHARACTERS SHOULD HAVE A HIGH CONTRAST WITH THEIR BACKGROUND.
5. ALL SIGNAGE TO HAVE RAISED CHARACTERS.

SIGNAGE SUBMITTALS

SUBMIT EACH ITEM IN THIS ARTICLE ACCORDING TO THE CONDITIONS OF THE CONTRACT AND DIVISION 1 SPECIFICATIONS SECTION.

1. PRODUCT DATA: FOR EACH TYPE OF SIGN SPECIFIED, INCLUDING FONT STYLE SAMPLES AND DETAILS OF CONSTRUCTION RELATIVE TO MATERIALS, DIMENSIONS OF INDIVIDUAL COMPONENTS, PROFILES AND FINISHES.
2. SHOP DRAWINGS: TO VERIFY TEXT OF EACH INDIVIDUAL SIGN AND INDICATE LOCATION OF EACH INDIVIDUAL SIGN IN THE PROJECT.
3. SAMPLES: PROVIDE SAMPLES OF EACH SIGN COMPONENT FOR SELECTION AND/ORVERIFICATION OF COLOR, TYPE AND MATERIALS.

SIGNAGE SCHEDULE

RM. NO.	ROOM NAME	#	SIGN TEXT	REMARKS
100	VESTIBULE	1	419	VERIFY W/ AUTHORITY HAVING JURISDICTION
100	VESTIBULE	2	TBD	HOURS OF OPERATION VERIFY W/ OWNER
101	WAITING			
102	CIRCULATION			
103	SCREENING ROOM	3	SCREENING BOOTH 1	
104	SCREENING ROOM	4	SCREENING BOOTH 2	
105	SCREENING ROOM	5	SCREENING BOOTH 3	
106	SCREENING ROOM	6	SCREENING BOOTH 4	
107	SCREENING ROOM	7	SCREENING BOOTH 5	
108	NOT USED			
109	CIRCULATION			
110	OFFICE	8	OFFICE	
111	CONTROL DESK			
112	CENTER MANAGER	9	MANAGER'S OFFICE	
113	LOCKERS	10	EXIT	
114	NOT USED	11		
115	EXAM	12	EXAM ROOM 1	
116	EXAM	13	EXAM ROOM 2	
117	EXAM	14	EXAM ROOM 3	
118	EXAM	15	EXAM ROOM 4	
119	MEN	16	MEN	
120	WOMEN	17	WOMEN	
121	CIRCULATION			
122	BREAK ROOM	18	BREAK ROOM (EMPLOYEES ONLY)	
123	ELECTRIC	19	ELECTRICAL ROOM	
124	MEN	20	MEN	
125	WOMEN	21	WOMEN	
126	PHLEBOTOMY WARD			
127	OFFICE	22	QUALITY OFFICE	
128	NOT USED			
129	STORAGE	23	STORAGE (EMPLOYEES ONLY)	
129	STORAGE	24	GCAM 419 RECEIVING	EXTERIOR OUTSIDE DOOR
130	BIO-WASTE	25	BIO-MEDICAL WASTE (EMPLOYEES ONLY)	2 BIO-WASTE STICKERS
131	PROCESSING	26	PROCESSING (EMPLOYEES ONLY)	
132	CONF / TRAINING	27	CONFERENCE ROOM	
133	PHONE / DATA	28	DATA ROOM	
134	JANITOR	29	JANITOR CLOSET	
135	SHIPPING		GCAM 419 SHIPPING	EXTERIOR OUTSIDE DOOR
136	ARCHIVE	30	ARCHIVE ROOM	
	FREEZER UNIT A	31	FREEZER 1	2 SIGNS, ONE ON FREEZER & ONE ON ROOF UNIT
	FREEZER UNIT B	32	FREEZER 2	2 SIGNS, ONE ON FREEZER & ONE ON ROOF UNIT

KEY NOTES

1. WHEN POSSIBLE INSTALL SIGN CENTERED AT 8" FROM DOOR OR WINDOW FRAME.
2. ALL SIGNS TO BE INSTALLED AT 4'-11" AFF ON CENTER. 48" MIN. TO BASELINE OF LOWEST TACTILE CHARACTER & 60" MAX. TO BASELINE OF HIGHEST TACTILE CHARACTER AFF.
3. WHERE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED CENTERED ON THE INACTIVE LEAF.
4. WHERE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR.
5. SIGNS SHALL BE LOCATED SO THERE IS A CLEAR FLOOR SPACE OF 18" X 18" MINIMUM, CENTERED ON THE SIGN CHARACTERS. CLEAR FLOOR SPACE MUST BE BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

CHARACTER REQUIREMENTS

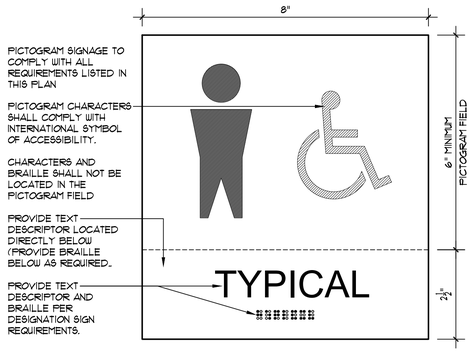
1. ALL CHARACTERS/TEXT SHALL BE UPPERCASE.
2. ALL CHARACTERS/TEXT SHALL BE RAISED 1/32" (Ø8MM) MINIMUM ABOVE THEIR BACKGROUND.
3. ALL SIZE / PROPORTION SHALL BE BASED ON THE LETTER "I"
4. FONT - CHARACTERS SHALL BE SANS SERIF - NO ITALIC, SCRIPT, OBLIQUE OR HIGHLY DECORATIVE, OR OTHER UNUSUAL FORMS.
5. FONT PROPORTIONS - THE WIDTH OF THE LETTER "O" IS 55% MIN. AND 110% MAX. THE HEIGHT OF THE LETTER "I".
6. CHARACTER HEIGHT MEASURED VERTICAL FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" (16MM) MINIMUM AND 2" (51 MM) MAXIMUM.
7. TACTILE SIGNS SHALL NOT HAVE SHARP OR ABRASIVE EDGES.
8. STROKE THICKNESS: STROKE THICKNESS OF THE UPPERCASE LETTER 'I' SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER.

PROJECT SPECIFICATIONS

1. SIGN TYPE: FRAMED PANEL SIGN. FABRICATE SIGN WITH EDGES MECHANICALLY AND SMOOTHLY FINISHED TO CONFORM TO THE FOLLOWING REQUIREMENTS.
   1. EDGE CONDITION: SQUARE CUT
   2. EDGE COLOR: SAME AS BACKGROUND
   3. CORNER CONDITION: SQUARE
2. SIGN FINISH MATERIALS:
   - 2.1. FACE: PLASTIC LAMINATE - NEVAMAR WX4660Ø-VE, WHISPERING WIND WITH CLEAR ACRYLIC FRAME.
   - 2.2. LETTERS - PLASTIC LAMINATE - METALLIC FINISH COLOR AS SELECTED FROM MANUFACTURER'S FULL RANGE OF STANDARD COLORS.
3. SIGN SHALL STAND OFF WALL APPROXIMATELY 3/8"

INSTALLATION GENERAL NOTES

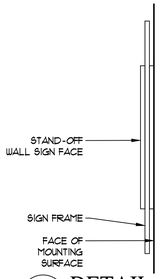
1. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT RIGHT SIDE OF DOUBLE DOOR, SIGN SHALL BE LOCATED ON THE NEAREST ADJACENT WALL.
2. INSTALL SIGN LEVEL, PLUMB, AND AT THE HEIGHT INDICATED, WITH SIGN SURFACES FREE FROM DISTORTION OR OTHER DEFECTS IN APPEARANCE.
3. WHERE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED TO THE LATCH SIDE OF THE DOOR.
4. SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD OPEN DEVICES.



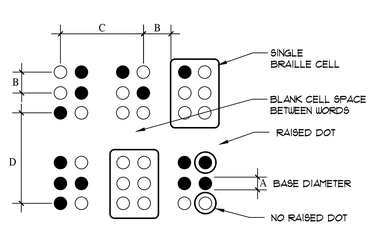
PICTOGRAMS
6 / F1.02 DETAIL
6" = 1'-0"

BRAILLE DIMENSIONS (TABLE 703.3.1)		
	MEASUREMENT RANGE	MIN. TO MAX. DIMENSIONS INCHES (MM)
A	DOT BASE DIAMETER	Ø.059 (1.5 MM) TO Ø.063 (1.6 MM)
B	DISTANCE BETWEEN TWO DOTS IN THE SAME CELL	Ø.090 (2.3 MM) TO Ø.100 (2.5 MM)
C	DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS	Ø.241 (6.1 MM) TO Ø.300 (7.6 MM)
	DOT HEIGHT (THICKNESS)	Ø.025 (0.6 MM) TO Ø.037 (Ø.937 (0.9 MM)
D	DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW.	Ø.395 (10 MM) TO Ø.400 (10.2 MM)

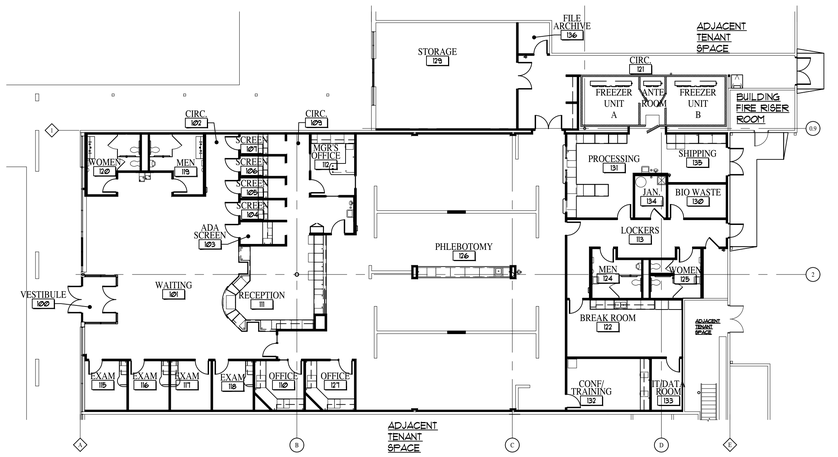
1. FOR THE USE OF THIS PROJECT USE ALL MAXIMUM DIMENSIONS IN CHART.
2. BRAILLE DOTS SHALL BE DOMED OR ROUNDED SHAPE.
3. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.
4. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT.



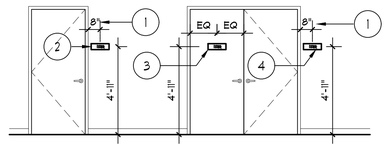
10 / F1.02 DETAIL
6" = 1'-0"



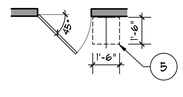
INSTALLATION
9 / F1.02 BRAILLE REQUIREMENTS
NOT TO SCALE



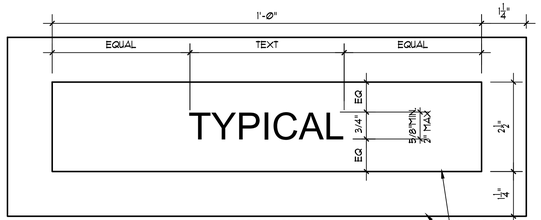
1 / F1.02 KEY PLAN
SCALE: 1/16" = 1'-0"



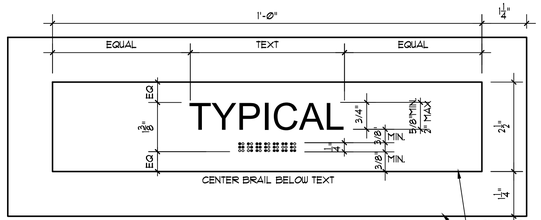
SIGNAGE INSTALLATION
3 / F1.02 ELEVATIONS
1/4" = 1'-0"



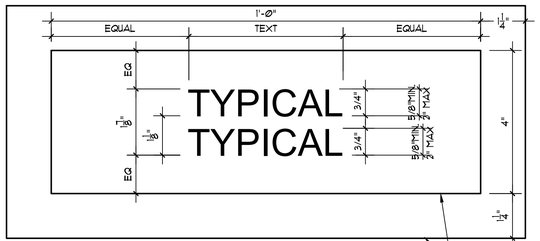
SIGNAGE INSTALLATION
2 / F1.02 PLAN
1/4" = 1'-0"



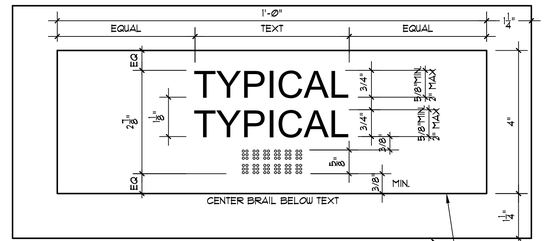
DESIGNATION SIGN
5 / F1.02 DETAIL
6" = 1'-0"



DESIGNATION SIGN W/ BRAILLE
4 / F1.02 DETAIL
6" = 1'-0"



DESIGNATION SIGN - 2 ROWS
8 / F1.02 DETAIL
6" = 1'-0"



DESIGNATION SIGN W/ BRAILLE
7 / F1.02 DETAIL
6" = 1'-0"

PROFESSIONAL SEAL

REGISTERED ARCHITECT WILLIAM P. CASLER 24530 STATE OF TEXAS

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

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CONSULTANTS:

JOB NUMBER	2674.0010
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SIGNAGE PLAN AND DETAILS

F1.02

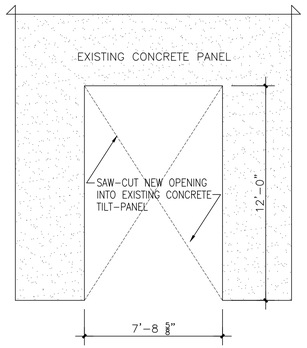
GENERAL NOTES

DESIGN CRITERIA

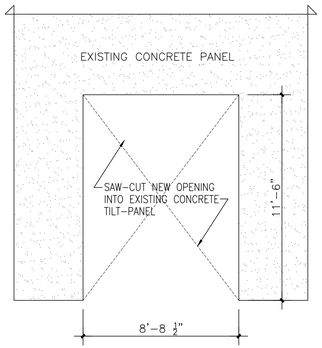
1. ROOF LOADS:
   LIVE LOAD .....20 PSF
   DEAD LOAD .....20 PSF
2. WIND LOAD: VARIES WITH BUILDING HEIGHT AS PER IBC 2015 & THE LATEST EDITION OF ASCE-7 BASED UPON A 130 MPH.
3. EXPOSURE FACTOR C

STRUCTURAL STEEL

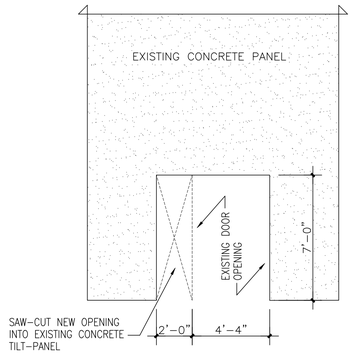
1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM SPECIFICATION A-36 UNLESS OTHERWISE SHOWN OR NOTED.
2. ALL STRUCTURAL STEEL PIPING SHALL CONFORM TO ASTM SPECIFICATION A-501.
3. ALL STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND THE STEEL JOIST INSTITUTE.
4. ALL STEEL JOISTS SHALL BE DESIGNED AND FABRICATED BY A MEMBER OF THE STEEL JOIST INSTITUTE. CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATE OF FABRICATOR'S MEMBERSHIP TO THE STEEL JOIST INSTITUTE AT TIME OF SHOP DRAWING SUBMITTAL.
5. ALL STRUCTURAL BOLTS SHALL CONFORM TO ASTM A-325 UNLESS OTHERWISE SHOWN
6. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR VERIFICATION OF ALL BOLTS, BLOCKING ANCHORS, ETC., FOR THE ANCHORAGE OF THEIR RESPECTIVE ITEMS.
7. ALL BEAMS AND COLUMNS SHALL BE FULL LENGTH WITHOUT SPLICES UNLESS OTHER-
8. ALL SHOP AND FIELD WELDS SHALL BE MADE BY WELDERS WHO HAVE BEEN QUALIFIED AND CERTIFIED TO MAKE THE REQUIRED WELDS WITHIN THE PREVIOUS SIX MONTHS IN ACCORDANCE WITH THE LATEST AMERICAN WELDING SOCIETY SPECIFICATIONS
9. ERECTION CONNECTORS SHALL BE PROVIDED IN ORDER TO PROPERLY ALIGN AND BE TRUE AND PLUMB WHEN WELDS ARE MADE.
10. JOIST MANUFACTURER SHALL PROVIDE BRIDGING AS REQUIRED TO ADEQUATELY BRACE JOISTS AS REQUIRED BY THE STEEL JOIST INSTITUTE.
11. SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL STEEL AND SUBMITTED FOR REVIEW BY ENGINEER. ENGINEERING DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS.
12. ALL COMPLETE PENETRATION WELDS, BOTH SHOP AND FIELD, SHALL BE MADE UNDER THE OBSERVATION OF A QUALIFIED TESTING LABORATORY INSPECTOR.
13. THE FABRICATOR SHALL SUPPLY BACKUP PLATES AND EXTENSION TABS FOR ALL COMPLETE PENETRATION WELDS.
14. ALL COMPLETE PENETRATION WELDS SHALL BE X-RAYED OR ULTRA-SONIC TESTED BY A QUALIFIED TESTING LABORATORY. ANY WELDS FOUND DEFECTIVE SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
15. ALL WELDS TO BE X-RAYED SHALL BE GROUND SMOOTH.



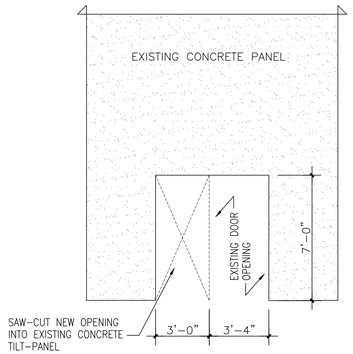
ELEVATION - NEW OPENING 1/2"=1'-0" 1



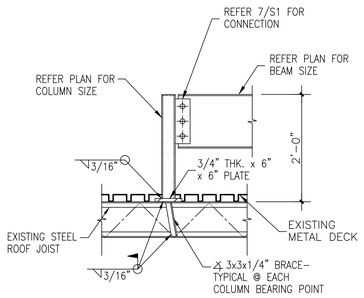
ELEVATION - NEW OPENING 1/2"=1'-0" 2



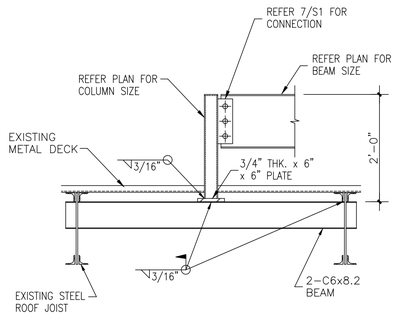
ELEVATION - NEW OPENING 1/2"=1'-0" 3



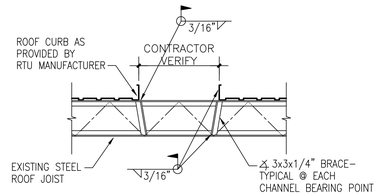
ELEVATION - NEW OPENING 1/2"=1'-0" 4



STUB COLUMN LOCATED OVER A JOIST 3/4"=1'-0" 5

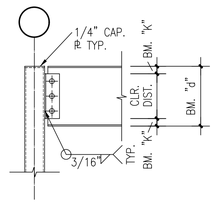


STUB COLUMN LOCATED BETWEEN JOISTS 3/4"=1'-0" 6



3/4"=1'-0" 7

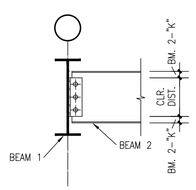
3/4"=1'-0" 8



CLR. DIST.	PLATE	BOLTS
9" TO 11 7/8"	PL 3/8"x4"x0'-9"	3 - 3/4" ϕ

NOTE: ALL BOLTS SHALL BE HIGH-STRENGTH A325 BOLTS.

3/4"=1'-0" 9



BEAM TO BEAM CONNECTION SCHEDULE		
9" TO 11 7/8"	2 - ∠ 4x4x1/4"x0'-9"	9 - 3/4"ϕ

NOTE: ALL BOLTS SHALL BE HIGH-STRENGTH A325 BOLTS.

3/4"=1'-0" 10

3/4"=1'-0" 11

3/4"=1'-0" 12

3/4"=1'-0" 13

3/4"=1'-0" 14

3/4"=1'-0" 15

3/4"=1'-0" 16

PROFESSIONAL SEAL

STATE OF TEXAS
GEORGE MENDOZA
100276
LICENSED
PROFESSIONAL ENGINEER

3-7-19

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY GEORGE MENDOZA, P.E. NO. 100276. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

GCAM Plasma

419 E. UNIVERSITY DRIVE
EDINBURG, TX 78539

ARCHITECT:

CASLER
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CONSULTANTS:

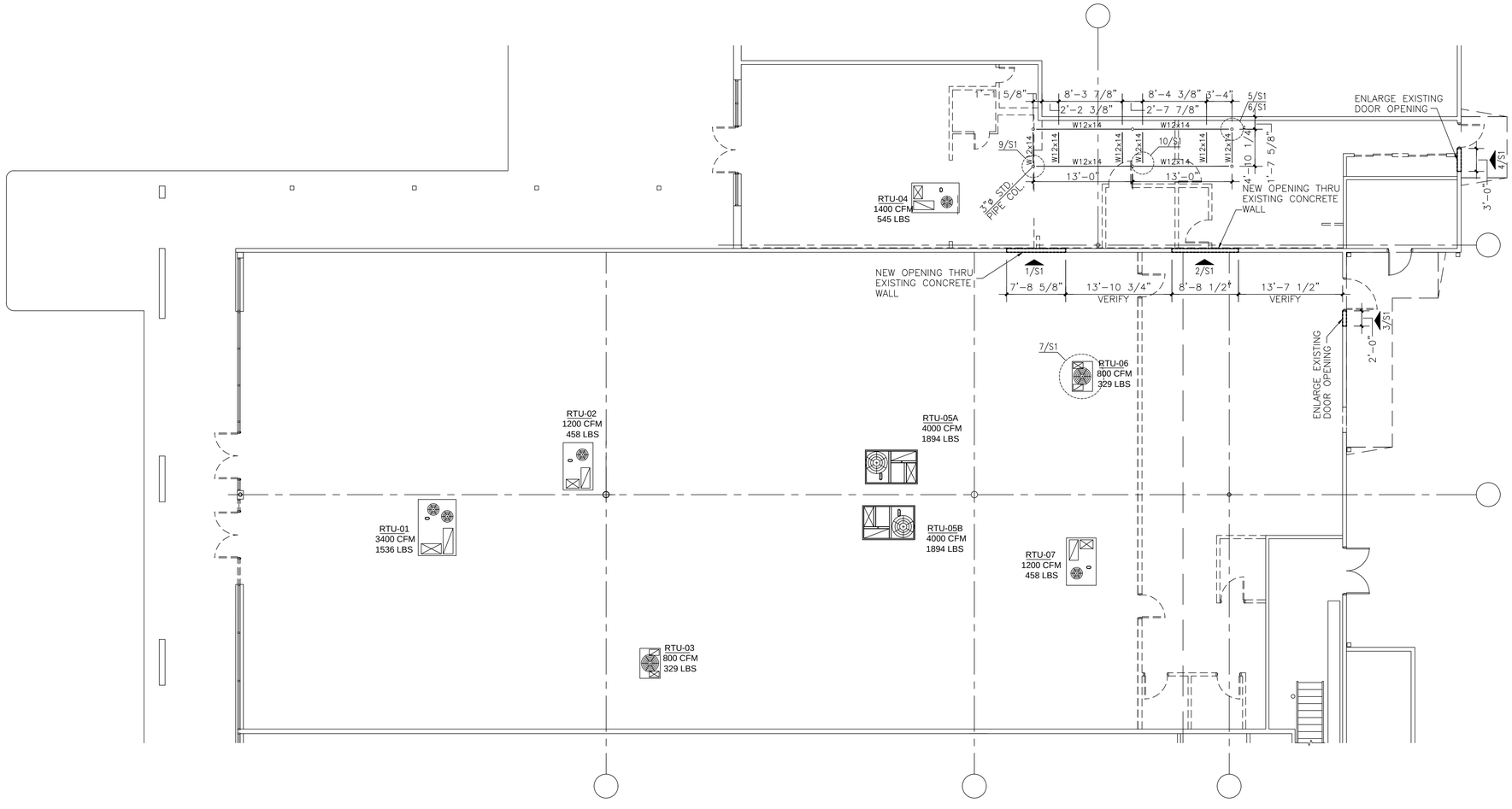
ME MENDOZA ENGINEERING, P.L.L.C.
STRUCTURAL ENGINEERS
FIRM REGISTRATION #F-10588
6316 N. 10th ST. SUITE 101 BLD'G A
McALLEN, TEXAS 78504 (956) 631-4906

JOB NUMBER	0919
DRAWN BY	SG
CHECKED BY	GM

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GENERAL NOTES
ELEVATIONS
&
DETAILS

S1



NEW OPENING/FRAMING PLAN
SCALE: 1/4" = 1'-0"

NORTH

PROFESSIONAL SEAL

STATE OF TEXAS
GEORGE MENDOZA
100276
LICENSED
PROFESSIONAL ENGINEER

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NEW OPENING/
FRAMING PLAN

S2

PLUMBING NOTATIONS

140	140°F HOT WATER	HP	HORSE POWER
140R	140°F HOT WATER RETURN	HT	HEIGHT
AD	AREA DRAIN	INV	INVERT ELEVATION
AFF	ABOVE FINISH FLOOR	LAV	LAVATORY
AFG	ABOVE FINISHED GRADE	LF	LINEAR FOOT
BFP	BACKFLOW PREVENTER	MAX	MAXIMUM
BV	BALANCING VALVE	MC	MECHANICAL CONTRACTOR
BT	BATHTUB	MIN	MINIMUM
CO	CLEAN OUT	MS	MOP SINK
CS	CLINIC SINK	NTS	NOT TO SCALE
CWS	COMBINATION WATER SERVICE	OD	OVERFLOW DRAIN
DCW	DOMESTIC COLD WATER	PC	PLUMBING CONTRACTOR
DD	DECK DRAIN	RD	ROOF DRAIN
DDCV	DOUBLE DETECTOR CHECK VALVE	S	SINK
DF	DRINKING FOUNTAIN	SA	SHOCK ABSORBER
DHW	DOMESTIC HOT WATER	SAN	SANITARY
DHWR	DOMESTIC HOT WATER RETURN	SDL	SPRINKLER DRAIN LINE
DN	DOWN	SE	SEWAGE EJECTOR
DS	DOWNSPOUT	SF	SQUARE FOOT
DWH	DOMESTIC WATER HEATER	SH	SHOWER
EC	ELECTRICAL CONTRACTOR	SP	SUMP PUMP
ET	EXPANSION TANK	SS	SANITARY SEWER
EWC	ELECTRIC WATER COOLER	STM	STORM
EWH	ELECTRIC WATER HEATER	SUC	SITE UTILITY CONTRACTOR
FCO	FLOOR CLEANOUT	SW	SOFT WATER
FD	FLOOR DRAIN	TD	TRENCH DRAIN
FDC	FIRE DEPARTMENT CONNECTION	TMV	THERMOSTATIC MIXING VALVE
FDV	FIRE DEPARTMENT VALVE	TP	TRAP PRIMER
FOG	FATS / OILS / GREASE	TS	TAMPER SWITCH
FR	FIRE RISER	TYP	TYPICAL
FS	FLOW SWITCH	UF	UTILITY FIXTURE
FSC	FIRE SUPPRESSION CONTRACTOR	UG	UNDERGROUND
G	GAS (NATURAL)	UNO	UNLESS NOTED OTHERWISE
GC	GENERAL CONTRACTOR	UR	URINAL
GCO	GRADE CLEANOUT	V	VENT
GPM	GALLONS PER MINUTE	VR	VENT RISER
GRD	GRADE	VTR	VENT THROUGH ROOF
HB	HOSE BIBB	WC	WATER CLOSET
HC	HVAC CONTRACTOR	WCO	WALL CLEANOUT
HCO	HORIZONTAL CLEANOUT	WH	WALL HYDRANT
HD	HUB DRAIN		

PLUMBING SYMBOL LEGEND

NOTES:

1. ALL SYMBOLS MAY NOT APPLY.

XX	CODED PLAN NOTE	XX / XXX	DETAIL # / SHEET # REFERENCE TAG
XX	EQUIPMENT DESIGNATION		
BFP	BACKFLOW PREVENTER		BALANCING VALVE
	BALL VALVE		BUTTERFLY VALVE
	CAP OFF EXISTING		CHECK VALVE
CO	CLEANOUT PLUG	DDCV	DOUBLE DETECTOR CHECK VALVE
	DRY-PIPE VALVE		FIRE ALARM VALVE
	FIRE DEPARTMENT CONNECTION		FIRE PROTECTION CONCEALED SPRINKLER
	FIRE PROTECTION PENDANT SPRINKLER		FIRE PROTECTION SPRINKLER WITH GUARD
	FIRE PROTECTION UPRIGHT SPRINKLER	CO	FLOOR CLEANOUT
	FLOOR DRAIN	FS	FLOW SWITCH
	GAS COCK		GATE VALVE
	MIXING VALVE		PIPING DOWN
	PIPING OUT BOTTOM		PIPING OUT TOP
	PIPING RISE OR DROP		PIPING UP
	PLUG VALVE		POINT OF CONNECTION
	PRE-ACTION VALVE		PRESSURE REDUCING VALVE
	RECIRCULATION PUMP		ROOF / OVERFLOW DRAIN
	SOLENOID VALVE		STRAINER
TS	SUPERVISED GATE VALVE		TEST PLUG
	THERMOMETER		UNION
M	UTILITY METER - GAS / WATER		WALL HYDRANT / HOSE BIBB

PLUMBING LINETYPE LEGEND

- GENERAL DEMO
- GENERAL EXISTING
- 115° — 115 DEGREE
- 115°R — 115 DEGREE RETURN
- 140° — 140 DEGREE
- 140°R — 140 DEGREE RETURN
- 180° — 180 DEGREE
- 180°R — 180 DEGREE RETURN
- DOMESTIC COLD WATER
- (AB)DCW — DOMESTIC COLD WATER (ABANDONED)
- (D)DCW — DOMESTIC COLD WATER (DEMO)
- (E)DCW — DOMESTIC COLD WATER (EXISTING)
- DOMESTIC HOT WATER
- (AB)DHW — DOMESTIC HOT WATER (ABANDONED)
- (D)DHW — DOMESTIC HOT WATER (DEMO)
- (E)DHW — DOMESTIC HOT WATER (EXISTING)
- DOMESTIC HOT WATER RETURN
- (AB)DHWR — DOMESTIC HOT WATER RETURN (ABANDONED)
- (D)DHWR — DOMESTIC HOT WATER RETURN (DEMO)
- (E)DHWR — DOMESTIC HOT WATER RETURN (EXISTING)
- FOG — FATS, OILS, GREASE
- G — GAS
- LNG — LIQUID NATURAL GAS
- LPG — LIQUID PROPANE GAS
- NG — NATURAL GAS
- OD — OVERFLOW DRAIN
- LP — PROPANE GAS
- SANITARY
- (AB)SAN — SANITARY (ABANDONED)
- (D)SAN — SANITARY (DEMO)
- (E)SAN — SANITARY (EXISTING)
- USAN — SANITARY UNDERGROUND
- STM — STORM
- USTM — STORM UNDERGROUND
- UGW — UNDERGROUND WATER
- VENT
- (AB)V — VENT (ABANDONED)
- (D)V — VENT (DEMO)
- (E)V — VENT (EXISTING)

ALL OTHER LINETYPES DENOTED WITH:
(AB) = ABANDONED; (D) = DEMO; (E) = EXISTING

GENERAL NOTES:

A. THIS WORK SHALL BE EXECUTED IN STRICT CONFORMITY WITH THE LATEST EDITION OF THE PREVAILING STATE PLUMBING AND BUILDING CODES AND ALL LOCAL REGULATIONS THAT MAY APPLY. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.

B. ALL PLUMBING FIXTURES SHALL BE SUPPLIED WITH INDIVIDUAL HEAVY DUTY SUPPLY STOPS AND CODE APPROVED P-TRAPS WITH CLEANOUTS. EXPOSED PIPING SHALL BE CHROME PLATED WITH CHROMED ESCUTCHEONS AT WALL PENETRATIONS.

C. NO PIPING SHALL PASS DIRECTLY OVER ELECTRICAL POWER DISTRIBUTION CABINETS. CONTRACTOR SHALL COORDINATE PANEL LOCATIONS, PRIOR TO PIPING INSTALLATION.

D. ALL FLOOR DRAIN AND HUB DRAIN TRAPS SHALL BE PROVIDED WITH TRAP PRIMERS OR TRAP GUARDS, PER LOCAL CODES.

E. ALL HORIZONTAL VENT PIPING MAY NOT BE SHOWN ON THIS PLAN FOR THE SAKE OF CLARITY. REFER TO SANITARY ISOMETRIC FOR VENT PIPE ROUTING AND PROVIDE COMPLETE VENTING SYSTEM IN ACCORDANCE WITH CODE.

F. ALL PLUMBING WORK SHALL BE COORDINATED WITH ALL OTHER TRADES, PRIOR TO CONSTRUCTION.

G. ALL DOMESTIC WATER BRANCH LINES SHALL HAVE FULL PORT, TWO PIECE BALL TYPE, ISOLATION VALVES.

H. PROVIDE WATER HAMMER ARRESTORS (WHA) AS REQUIRED, WITH QUICK CLOSING VALVES AND ON SYSTEMS WITH HIGHER THAN NORMAL PRESSURE, WHERE WATER HAMMER MAY BE AN ISSUE.

I. INSTALL ALL FLOOR CLEANOUTS TO CLEAR EQUIPMENT AND PROVIDE REQUIRED ACCESSIBILITY FOR MAINTENANCE.

J. VERIFY INVERT ELEVATIONS AND EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES, PRIOR TO INSTALLING ANY UNDERGROUND PIPING.

K. PLUMBING CONTRACTOR TO COORDINATE DEMOLITION OF EXISTING PLUMBING FIXTURES PRIOR TO NEW CONSTRUCTION.

PLUMBING SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
P0.01	PLUMBING COVER SHEET
P1.01	WASTE AND VENT PLAN
P2.01	WATER PLAN
P5.01	PLUMBING DETAILS
P6.01	PLUMBING SCHEDULES
P7.01	WASTE AND VENT ISOMETRIC

PROFESSIONAL SEAL

STATE OF TEXAS — ROBERT R. RUDOLPH — 106840 — LICENSED PROFESSIONAL ENGINEER

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

GCAM Plasma

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ARCHITECT:

CASLER DESIGN GROUP, INC.
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CONSULTANTS:

PE-SERVICES
F-10841
EXP: 11/30/19

JOB NUMBER	PES - 19005
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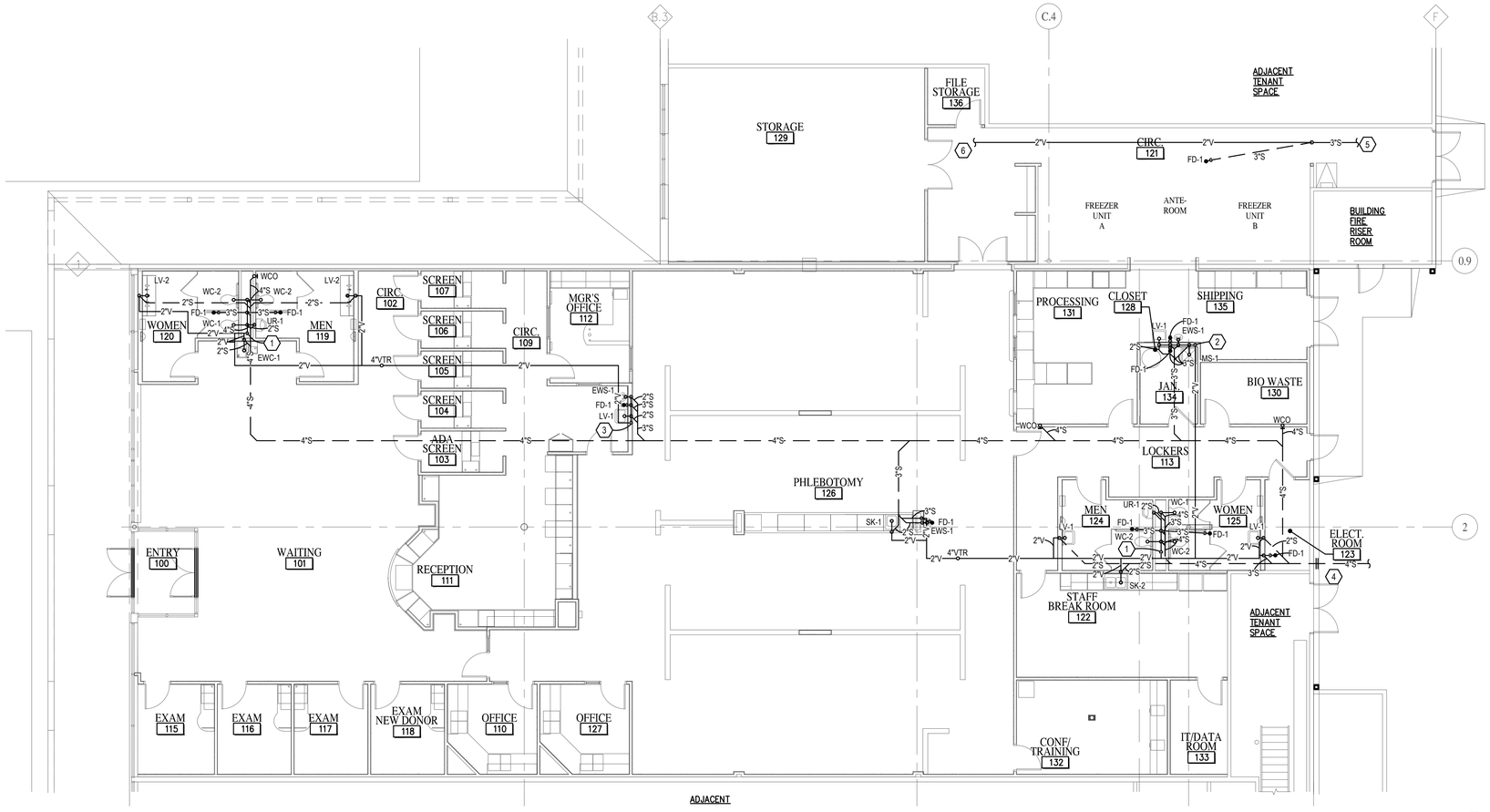
CONTRACTOR NOTE

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BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE, LOCAL AND FEDERAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION AND CODE/REQUIREMENTS REVIEW BEEN MADE, WILL NOT BE ALLOWED.

PLUMBING COVER SHEET

P0.01



WASTE AND VENT PLAN | 1

1/8" = 1'-0" | P1.01

NORTH

PLAN NOTES:

1. 2" VENT TO SERVE PLUMBING FIXTURES. CONNECT 2" VENT TO EACH WATER CLOSET AND FLOOR DRAIN. CONNECT 1-1/2" VENT TO URINAL.
2. 2" VENT TO SERVE PLUMBING FIXTURES. CONNECT 1-1/2" VENT TO HAND SINK, MOP SINK AND EYE WASH STATION. CONNECT 2" VENT TO FLOOR DRAIN.
3. 2" VENT TO SERVE PLUMBING FIXTURES. CONNECT 1-1/2" VENT TO HAND SINK AND EYE WASH STATION. CONNECT 2" VENT TO FLOOR DRAIN.
4. INVERT ELEVATION = -3.5' BELOW FINISHED FLOOR. REFER TO CIVIL FOR CONTINUATION.
5. 3" SANITARY TO NEAREST EXISTING SANITARY BEHIND BUILDING.
6. 2" VENT TO NEAREST EXISTING VENT SERVING SPACE.

PROFESSIONAL SEAL

STATE OF TEXAS
ROBERT R. RUDOLPH
106840
LICENSED
PROFESSIONAL ENGINEER

ISSUED FOR:

PERMIT/BID	03/07/2019

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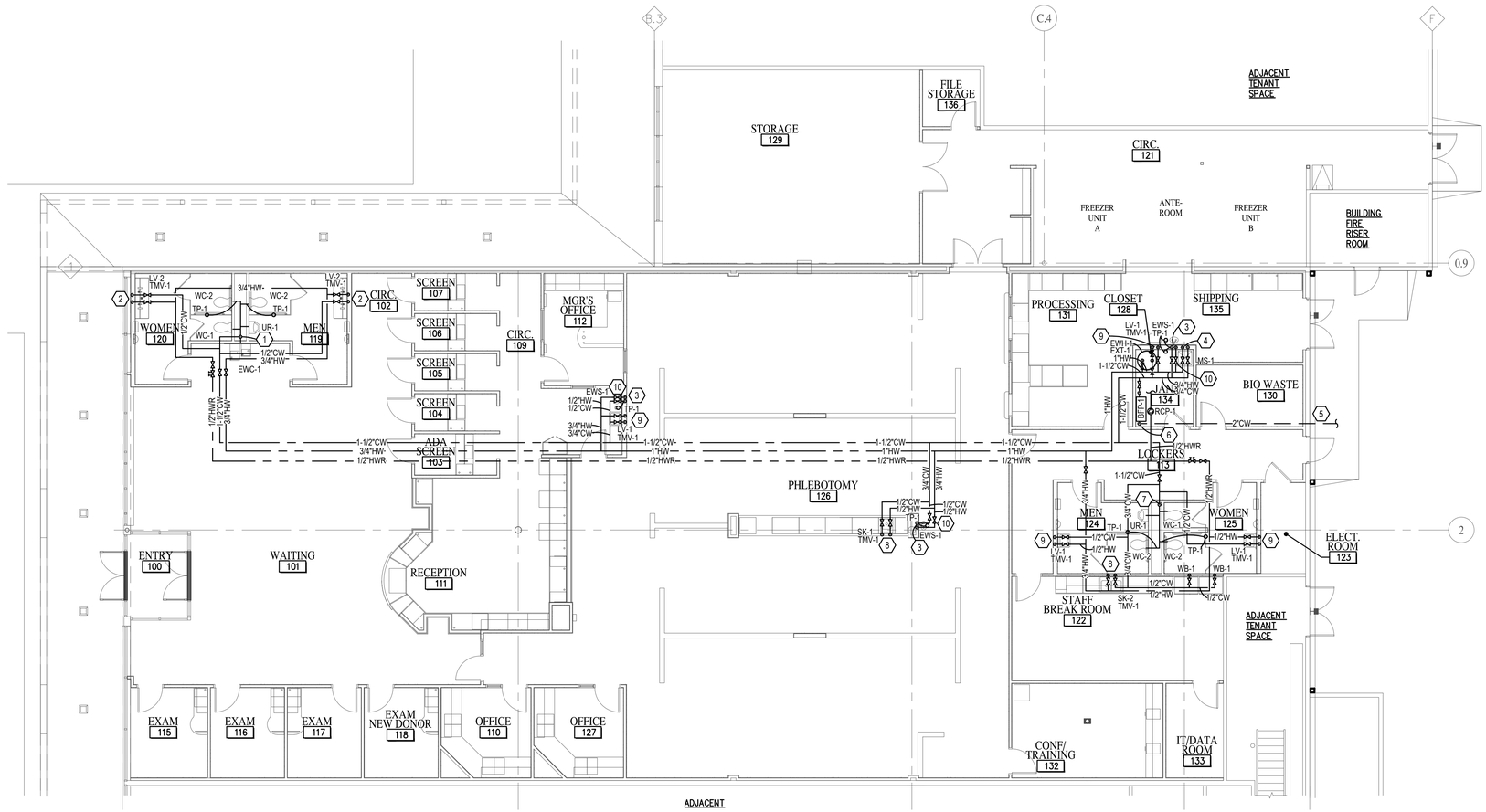
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WASTE AND VENT PLAN

P1.01



WATER PLAN | 1

1/8" = 1'-0" | P2.01

NORTH

PLAN NOTES:

1. 1-1/2" COLD WATER DOWN TO SERVE PLUMBING FIXTURES. CONNECT 1" COLD WATER TO EACH WATER CLOSET, 3/4" COLD WATER TO URINAL AND 1/2" COLD WATER TO ELECTRIC WATER COOLER. CONTRACTOR TO ROUTE 1/2" COLD WATER TO EACH TRAP PRIMER FROM NEAREST WATER CLOSET DROP.
2. 3/4" HOT AND COLD WATER DOWN TO SERVE LAVATORY. CONNECT 1/2" HOT AND COLD WATER TO EACH LAVATORY FAUCET.
3. 1/2" HOT AND COLD WATER DOWN TO EYEWASH THERMOSTATIC MIXING VALVE. ROUTE TEPID WATER TO EYEWASH. CONTRACTOR TO ROUTE 1/2" COLD WATER TO TRAP PRIMER, FROM EYE WASH STATION DROP.
4. 1/2" HOT AND COLD WATER DOWN TO MOP SINK.
5. 2" COLD WATER. REFER TO CIVIL FOR CONTINUATION.
6. 2" COLD WATER UP FROM BELOW FLOOR.
7. 1-1/2" COLD WATER DOWN TO SERVE PLUMBING FIXTURES. CONNECT 1" COLD WATER TO EACH WATER CLOSET AND 3/4" COLD WATER TO URINAL. CONTRACTOR TO ROUTE 1/2" COLD WATER TO EACH PRIMER FROM NEAREST WATER CLOSET DROP.
8. 1/2" HOT AND COLD WATER DOWN TO SINK.
9. 1/2" HOT AND COLD WATER DOWN TO LAVATORY.
10. PROVIDE LOCKABLE-TYPE SHUTOFF VALVES. VALVES SHALL BE LOCKED "OPEN" PRIOR TO COMPLETION ON CONSTRUCTION.

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PROFESSIONAL SEAL

STATE OF TEXAS
ROBERT R. RUDOLPH
106840
LICENSED PROFESSIONAL ENGINEER

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

GCAM Plasma

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EDINBURG, TX 78539

ARCHITECT:

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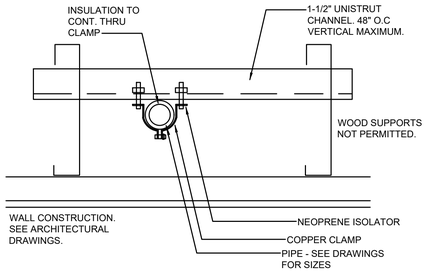
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WATER PLAN

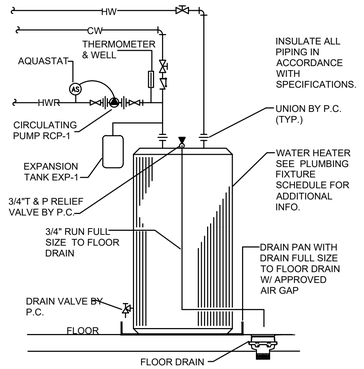
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NOTE: NO HORIZONTAL RUNS PERMITTED INSIDE WALL CAVITY. DROP ALL PIPING FROM ABOVE CEILING DIRECTLY TO EACH FIXTURE.

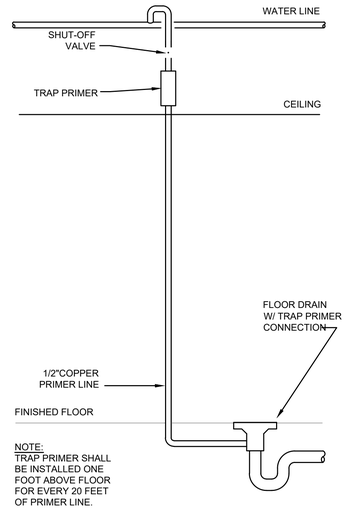
TYPICAL VERTICAL PIPING SUPPORT | 11

NTS | P5.01



ELECTRIC WATER HEATER DETAIL | 10

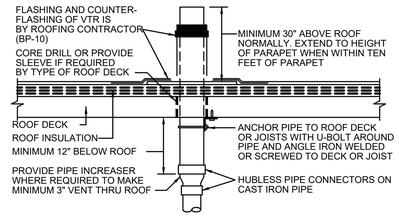
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NOTE:
TRAP PRIMER SHALL BE INSTALLED ONE FOOT ABOVE FLOOR FOR EVERY 20 FEET OF PRIMER LINE.

TRAP PRIMER DETAIL | 9

NTS | P5.01



REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, OR TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, OR ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 18" FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.

ROOF WORK PART OF BP-10.

VENT THRU ROOF DETAIL | 8

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WALL CLEANOUT DETAIL | 7

NTS | P5.01

PIPE SIZE	COPPER PIPE HANGER SPACING	STEEL PIPE HANGER SPACING
1/2"	6'	6'
3/4"	6'	6'
1"	6'	8'
1-1/4"	6'	10'
1-1/2"	6'	10'
2"	10'	10'
2-1/2"	10'	10'
3"	10'	10'
4"	10'	10'

PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. SLOPE ALL WATER PIPING SLIGHTLY TOWARD DRAINABLE LOCATIONS. HANGER SPACING FOR PIPE SIZES: AS INDICATED IN TABLE. CAST IRON: 10' AND WITHIN 1'-0" OF ALL JOINTS. ROD SIZES FOR PIPE SIZE: 2" AND SMALLER=3/8", 2 1/2" TO 3"=1/2", 4"=5/8". LOCATE HANGERS WITHIN 1'-0" OF VALVES AND FITTINGS. PROVIDE SUPPLEMENTAL STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS WITHIN 1'-0" OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. CHAINS AND PERFORATED STRAP IRON AND STEEL ARE NOT ACCEPTABLE. DO NOT SUSPEND PIPE FROM JOIST BRACING MEMBERS. REFER TO CODES AND SPECIFICATIONS FOR FURTHER INFORMATION. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES.

PIPE HANGERS DETAIL | 6

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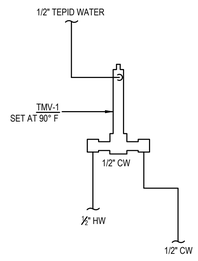
PIPE INSULATION DETAIL | 5

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PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. MAKE PIPE SAME SIZE AS TANK FITTING. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE. VERIFY PROPER OPERATION WHEN INSTALLED.

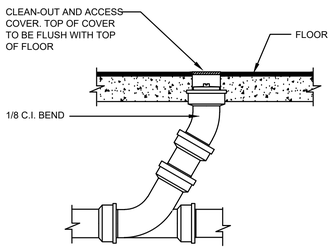
EXPANSION TANK DETAIL | 4

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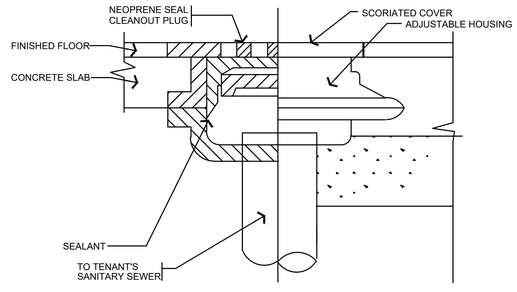
THERMOSTATIC MIXING VALVE DETAIL (EMERGENCY EYEWASH) | 3

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FLOOR CLEANOUT DETAIL | 2

NTS | P5.01



FLOOR DRAIN DETAIL | 1

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PLUMBING DETAILS

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PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	DESCRIPTION	FAUCETS/ FITTINGS	TRIM	ACCESSORIES	REFERENCE PRODUCT	ACCEPTABLE EQUALS
EWC-1	ELECTRIC WATER COOLER	BI-LEVEL UNIT, WALL HUNG, UL AND CSA LISTED, LEAD-FREE WATERWAYS STAINLESS STEEL TOP, HIGH EFFICIENCY COOLING TANK AND MOTOR WELDED HEAVY DUTY FRAME, ADA COMPLIANT				OASIS P8ACSL	ELKAY HAWS HALSEY TAYLOR
EWS-1	EMERGENCY EYEWASH	WALL MOUNTED, YELLOW PLASTIC BOWL, SELF-DRAINING, STAY OPEN FULL FLOW BALL VALVE, STAINLESS STEEL TRIGGER BAR, ADJUSTABLE VOLUME REGULATOR, AERATED SPRAY OUTLETS, HEAVY DUTY MOUNTING FRAME, SEPARATE SUPPLY AND WASTE PIPES			NAVIGATOR S19-2000 EFX8 EMERGENCY THERMOSTATIC MIXING VALVE	BRADLEY HALO S19224	SPEAKMAN GUARDIAN HAWS
FCO	FLOOR CLEANOUT	ADJUSTABLE POLISHED BRONZE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY WITH GAS AND WATER TIGHT ABS TAPERED THREAD PLUG, ROUND SECURED TOP, VANDAL PROOF SCREWS, NO HUB CONNECTION				ZURN Z-1400-VP	JR SMITH WADE WATTS
FD-1	FLOOR DRAIN FINISHED AREAS	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR, TYPE 'B' STRAINER TRAP PRIMER CONNECTION, 1 - 3" EXTENSION ADAPTER, VANDAL PROOF SCREWS				ZURN Z-415-P-VP-B	JR SMITH WADE WATTS
LV-1	LAVATORY WALL HUNG ADA	VITREOUS CHINA WALL HUNG, FRONT OVERFLOW, CONCEALED ARM SUPPORTS, 4" OC FAUCET HOLES, FAUCET LEDGE, SELF DRAIN DECK AREA CONTOURED SIDE AND BACK SPLASH SHIELDS, LEVER HANDLE FAUCET.	KOHLER K-15198-F	McGUIRE 165	TRUEBRO MODEL 102 TRAP WRAP KIT	KOHLER KINGSTON K-2006	AMERICAN STANDRAD ELJER
LV-2	LAVATORY COUNTER	BRADLEY BRAND, SINGLE PIECE, WALLHUNG, TWO USER WASH BASIN WITH RIMLESS DESIGN, FAUCET PAD, STRAINER AND OVERFLOW WITH COVERS. WITH SOAP DISPENSER 6315-KT0000, CAPACITIVE FAUCET BATTERY CAP-DCA, STAINLESS STEEL ACCESS PANEL AND SINGLE CHROME-PLATED P-TRAP. COLOR TO BE KALAHARI.	BRADLEY CAP-DCA	McGUIRE 165		BRADLEY VERGE WASH BASIN LVL-SERIES LVLD2	AMERICAN STANDARD ELJER
MS-1	MOP SIINK	MOLDED STONE IN MATCHED METAL DIES UNDER HEAT AND PRESSURE ONE PIECE BASIN, 24 X 24 X 10 DEEP, 3-1/2" DRAIN OPENING STAINLESS STEEL FLAT GRID STRAINER	FIAT 830-AA			FIAT TSB100	AMERICAN STANDARD FLORESTONE
SK-1	SINK SINGLE BOWL COUNTERTOP 20x18x10 DEEP	20 GAUGE STAINLESS STEEL SINGLE COMPARTMENT COUNTER TOP SINK, SELF-RIMMING, SATIN FINISH, 3-1/2" DRAIN OPENING, 2 HOLE PUNCH, HEAVY DUTY SOUND COATED UNDERSIDE,	KOHLER K-10411			JUST SL-2011-B-GR	JUST ELKAY AMERICAN STANDARD
SK-2	SINK DOUBLE BOWL COUNTERTOP 33"x22"x6"	20 GAUGE STAINLESS STEEL DOUBLE COMPARTMENT COUNTER TOP SINK, SELF-RIMMING, HAND BLENDED SATIN FINISH, 3-1/2" DRAIN OPENING, 3 HOLE PUNCH, 8" O.C. HEAVY DUTY SOUND COATED UNDERSIDE,	KOHLER K-596			STERLING MIDDLETON 14633	JUST ELKAY AMERICAN STANDARD
TMV-1	THERMOSTATIC MIXING VALVE POINT-OF-USE	SCREWDRIVER ADJUSTMENT TO ADJUST TEMPERATURE MAX 100 DEG F, STEM THERMOMETER ON INLET, VOLUME CONTROL, SHUT OFF VALVE ON OUTLET, CHECK VALVE ON INLETS, STRAINER STOP CHECKS ON INLETS. ASSE 1070 RATED.				SYMMONS "MAXLINE" 5-225-CK-MS" 2 GPM @ 10 PSI	LAWLER POWERS LEONARD
TP-1	TRAP PRIMER	AUTOMATIC TRAP PRIMER, ALL BRONZE BODY WITH INTEGRAL VACUUM BREAKER, NON-LIMING INTERNAL OPERATING ASSEMBLY WITH GASKETED BRONZE COVER 1/2 INCH IP FEMALE, SERVES 1 TO 4 FLOOR DRAINS				PPP INC. OREGON #1	JR SMITH MIFAB ZURN
UR-1	URINAL WALL HUNG, ADA	VITREOUS CHINA WALL HUNG, REAR OUTLET, TOP SPUD, FLUSHING RIM, LOW CONSUMPTION, WASHOUT FLUSH ACTION EXTENDED PRIVACY SHIELDS, 2 INCH OUTLET CONNECTION, WALL HANGERS, MEETS ANSI FLUSH REQUIREMENTS-ADA COMPLIANT	KOHLER K-13519			KOHLER BARDON K-4991-ET	ELJER AMERICAN STANDRAD
WC-1	WATER CLOSET WALL HUNG FLUSH VALVE	VITREOUS CHINA, ONE PIECE, WALL HUNG, FLUSH VALVE, 14" HIGH ELONGATED BOWL DIRECT-FED SIPHON JET ACTION, 1-1/2" INLET TOP SPUD, 2" BALLPASS TRAPWAY 1.28 GAL PER FLUSH, OPEN FRONT PLASTIC SEAT	KOHLER K-13517		KOHLER K-4731	KOHLER KINGSTON K-4325	ELJER AMERICAN STANDRAD
WC-2	WATER CLOSET WALL HUNG FLUSH VALVE-ADA	VITREOUS CHINA, ONE PIECE, WALL HUNG, FLUSH VALVE, 17" HIGH ELONGATED BOWL DIRECT-FED SIPHON JET ACTION, 1-1/2" INLET TOP SPUD, 2" BALLPASS TRAPWAY 1.28 GAL PER FLUSH, OPEN FRONT PLASTIC SEAT- ADA COMPLIANT	KOHLER K-13517		KOHLER K-4731	KOHLER KINGSTON K-4325	ELJER AMERICAN STANDRAD
WCO	WALL CLEANOUT	DURA-COATED CAST IRON BODY WITH GAS AND WATER TIGHT ABS TAPERED THREAD PLUG, ROUND SMOOTH, STAINLESS STEEL ACCESS COVER WITH SECURING VANDAL PROOF SCREW, NO HUB CONNECTION				ZURN ZB-1441-VP	JR SMITH WADE
WB-1	WALL BOX	ICE MAKER BOX, G90 HOT DIPPED GALVANIZED STEEL, 20 GAUGE				GUY GRAY BIM875QTSAB	

BACKFLOW PREVENTER SCHEDULE

TAG	FIXTURE	DESCRIPTION	PIPING CONNECTIONS IN	PIPING CONNECTIONS OUT	PIPING CONNECTIONS DRAIN	MAX FLOW (GPM)	MAX PRESSURE LOSS (PSI)	DEVICE LOCATION	EQUIPMENT SERVES	REFERENCE PRODUCT	ACCEPTABLE EQUALS
BFP-1	REDUCED PRESSURE BACKFLOW PREVENTER	ASSE LISTED 1013 CAST BRONZE MAIN BODY AND ACCESS COVERS, FULL PORT BALL VALVES, TWO INDEPENDENTLY OPERATING SPRING LOADED CHECK VALVES, STAINLESS STEEL SPRINGS, DIAPHRAGM TYPE DIFFERENTIAL PRESSURE RELIEF VALVE, AIR GAP FITTINGS	2"	2"	2"	300	12	JANITOR CLOSET	BUILDING	WATTS LF919	GRINNEL JOSAM WILKINS

RECIRCULATING PUMP SCHEDULE

TAG	FIXTURE	DESCRIPTION	PIPING CONNECTIONS DISCHARGE	PIPING CONNECTIONS SUCTION	ELECTRICAL REQUIREMENTS AMPS	VOLT	PH	HZ	HP	FLOW GPM	TDH FEET	PUMP RPM	LOCATION	REFERENCE PRODUCT	ACCEPTABLE EQUALS
RCP-1	DOMESTIC HOT WATER RECICRULATING PUMP IN-LINE	BRONZE BODY, CERAMIC THRUST BEARINGS, PLASTIC IMPELLAR, STAINLESS STEEL ROTOT AND SHAFT, SELF-LUBRICATED GRAPHITE BEARINGS, EPDM DIAPHRAGM 230 F MAX WATER TEMPERATURE, 140 PSI MAX WORKING PRESSURE	1/2"	1/2"	0.7	115	1	60	1/25	8	8	2800	JANITOR CLOSET	ARMSTRONG ASTRO SERIES 30B	ITT TACO LITTLE GIANT

SPECIALTIES SCHEDULE

TAG	FIXTURE	DESCRIPTION	PIPING CONNECTIONS INLET	PIPING CONNECTIONS OUTLET	PIPING CONNECTIONS VENT	ELECTRICAL REQUIREMENTS AMPS	VOLT	PH	HZ	HP	FLOW GPM	TDH FEET	PUMP RPM	LOCATION	REFERENCE PRODUCT	ACCEPTABLE EQUALS
EXT-1	EXPANSION TANK 2 GALLON	SHELL FABRICATED STEEL TO MEET ASME SECT VIII DIV 1 DIAPHRAGM BLADDER RATED AT 125 PSIG OPTIONAL 150 PSIG OPERATING TEMPERATURE 240 F MAX	3/4"											JANITOR CLOSET	AMTROL ST-5	JR SMITH WADE WATTS

ELECTRIC WATER HEATER SCHEDULE

TAG	FIXTURE	DESCRIPTION	PIPING CONNECTIONS CW	PIPING CONNECTIONS DHW	PIPING CONNECTIONS VENT	ELECTRICAL REQUIREMENTS KW	VOLT	PH	HZ	GAS REQUIREMENTS TYPE	BTUH	PRESSURE	TANK CAPACITY GALLONS	RECOVERY CAPACITY GALLONS	RECOVERY CAPACITY TEMP	LOCATION	REFERENCE PRODUCT	ACCEPTABLE EQUALS
EWH-1	ELECTRIC WATER HEATER TANK TYPE COMMERCIAL	GLASS LINED TANK, INCOLOY-SHEATED ELEMENTS, REPLACEABLE MAGNESIUM ANODE, SAFETY FLOAT SWITCH.	1"	1"	-	15	208	3	60	-	-	-	80	77	80 DEG	JANITOR CLOSET	AO SMITH DRE-80-15	BRADFORD-WHITE RHEEM STATE

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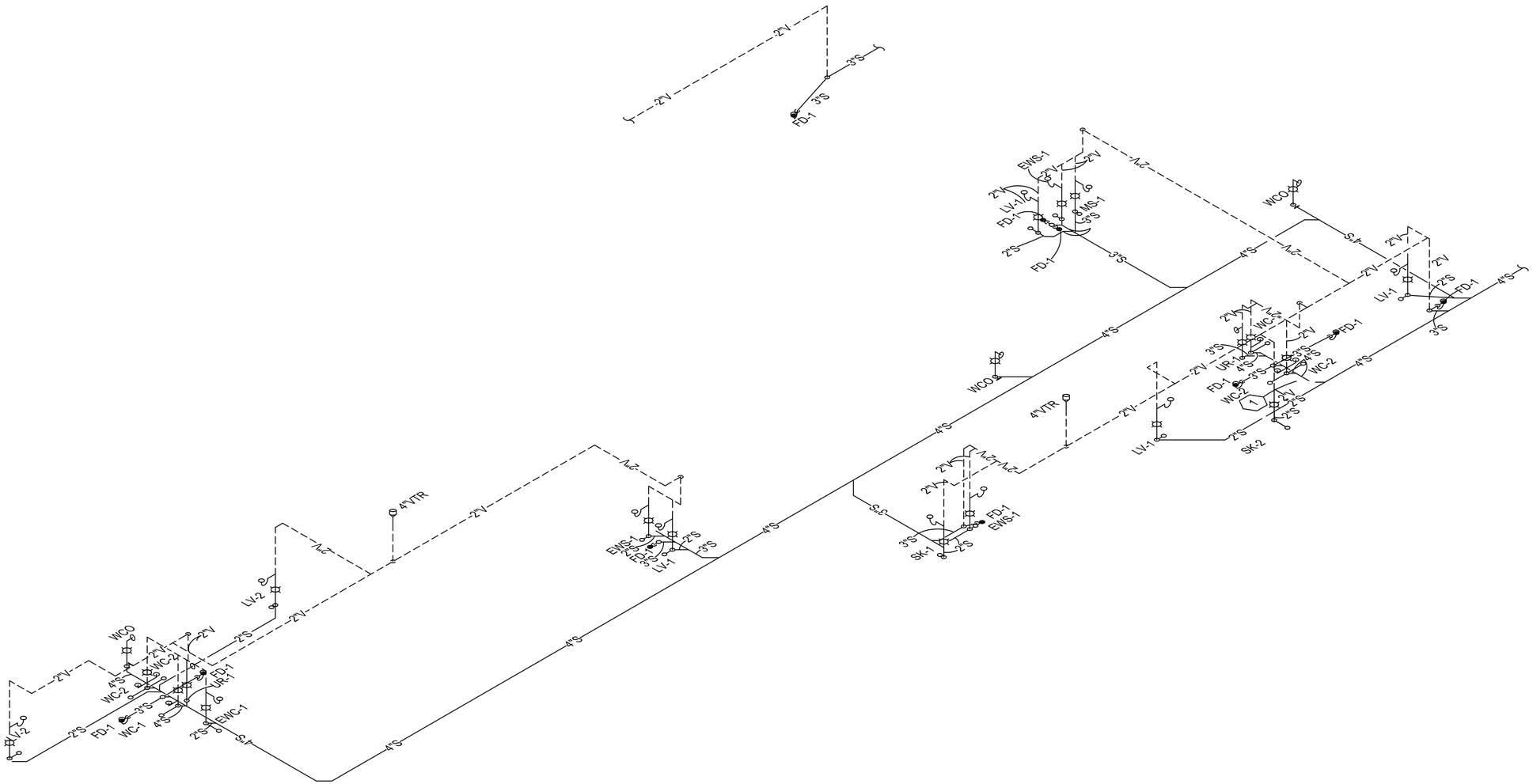
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PLUMBING SCHEDULES

P6.01



WASTE AND VENT ISOMETRIC | 1

NTS | P7.01

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WASTE AND VENT ISOMETRIC

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MECHANICAL SYMBOL LEGEND

NOTES:

1. ALL SYMBOLS MAY NOT APPLY.

X - ZZZ AxB	DIFFUSER TYPE - AIRFLOW (CFM) GRILLE SIZE	XX XXX	DETAIL # SHEET # REFERENCE TAG
XX	EQUIPMENT DESIGNATION	XX	CODED PLAN NOTE
	POINT OF CONNECTION	T	THERMOSTAT
H	HUMIDISTAT	S	REMOTE SENSOR
C	CO2 SENSOR	CO	CO SENSOR
	RECTANGULAR SUPPLY DUCT RISER	DD	DUCT MOUNTED SMOKE DETECTOR
	RECTANGULAR RETURN DUCT RISER		ROUND SUPPLY DUCT RISER
	RECTANGULAR EXHAUST DUCT RISER		ROUND RETURN DUCT RISER
	90 DEGREE TURNING VANE		ROUND EXHAUST DUCT RISER
	RECTANGULAR DUCT TRANSITION		45 DEGREE TURNING VANE
	DIRECTION OF AIR FLOW		ROUND DUCT TRANSITION

FD	VERTICAL FIRE DAMPER	FD	FIRE DAMPER
VD	VOLUME DAMPER WITH BLADES	VD	VOLUME DAMPER
S	SMOKE DAMPER	F/S	FIRE SMOKE DAMPER
F/S	VERTICAL FIRE SMOKE DAMPER	M	MOTORIZED DAMPER
	CEILING RADIATION DAMPER		
	SUPPLY AIR DIFFUSER		RETURN AIR GRILLE / REGISTER
	EXHAUST AIR GRILLE / REGISTER		

SINGLE LINE DUCTWORK

	NEW DUCTWORK		EXISTING DUCTWORK TO BE REMOVED
	RECTANGULAR RADIUS ELBOW		RECTANGULAR ELBOW WITH TURNING VANES
	ROUND RADIUS ELBOW		90 DEGREE SUPPLY AIR ELBOW UP/DOWN
	90 DEGREE RETURN AIR ELBOW UP/DOWN		90 DEGREE EXHAUST AIR ELBOW UP/DOWN
	90 DEGREE ROUND DUCT UP/DOWN		SHAPE TRANSITION
	SIZE TRANSITION		FLEXIBLE DUCT TAP
	TEE WITH SQUARE ELBOWS, TURNING VANES, AND SPLITTER DAMPER		ROUND DUCT TAKEOFF WITH DAMPER
	RECTANGULAR DUCT BEVELED TAP		

DOUBLE LINE DUCTWORK

	NEW DUCTWORK		EXISTING DUCTWORK TO BE REMOVED
	RECTANGULAR RADIUS ELBOW		RECTANGULAR ELBOW WITH TURNING VANES
	ROUND RADIUS ELBOW		90 DEGREE SUPPLY AIR ELBOW UP/DOWN
	90 DEGREE RETURN AIR ELBOW UP/DOWN		90 DEGREE EXHAUST AIR ELBOW UP/DOWN
	90 DEGREE ROUND DUCT UP/DOWN		SHAPE TRANSITION
	SIZE TRANSITION		FLEXIBLE DUCT TAP
	TEE WITH SQUARE ELBOWS, TURNING VANES, AND SPLITTER DAMPER		ROUND DUCT TAKEOFF WITH DAMPER
	RECTANGULAR DUCT BEVELED TAP		

MECHANICAL NOTATIONS

AC	AIR CONDITIONING	EL	ELEVATION	MIN	MINIMUM
ACCU	AIR COOLED CONDENSING UNIT	ELEC	ELECTRIC(AL)	MISC	MISCELLANEOUS
ACU	AIR CONDITIONING UNIT	ELEV	ELEVATOR	MPR	MEDIUM PRESSURE STEAM RETURN
AFF	ABOVE FINISHED FLOOR	EM	EMERGENCY	MPS	MEDIUM PRESSURE STEAM SUPPLY
AFG	ABOVE FINISHED GRADE	ERU-#	ENERGY RECOVERY UNIT	NO / #	NUMBER
AHU	AIR HANDLING UNIT	EQUIP	EQUIPMENT	NTS	NOT TO SCALE
ALT	ALTERNATIVE	ETR	EXISTING TO REMAIN	OA	OUTSIDE AIR
AMB	AMBIENT	EUH-#	ELECTRIC UNIT HEATER	OAU	OUTSIDE AIR UNIT
AP	ACCESS PANEL	EXH	EXHAUST	OC	ON CENTER
APPROX	APPROXIMATE	EXIST/E	EXISTING	OD	OUTSIDE DIAMETER
ARCH	ARCHITECT(URAL)	EXP	EXPLOSION PROOF	PC	PLUMBING CONTRACTOR
ARV	AIR RELIEF VALVE	EXT	EXTERIOR	PSI	POUNDS PER SQUARE INCH
ATV	AIR TURNING VANE	F-#	FURNACE	PVC	POLYVINYL CHLORIDE
AUTO	AUTOMATIC	FC-#	FAN COIL UNIT	R	RADIUS
B-#	BOILER	FD	FIRE DAMPER	RA	RETURN AIR
BD	BAROMETRIC DAMPER	FEV	FLUE EXHAUST VENT	RG-#	RETURN AIR GRILLE
BDD	BACK DRAFT DAMPER	FLR	FLOOR	REQ'D	REQUIRED
BHP	BRAKE HORSEPOWER	FPM	FEET PER MINUTE	RL	REFRIGERANT LIQUID
BOP	BOTTOM OF PIPE	F/S	COMBINATION FIRE/SMOKE DAMPER	RM	ROOM
BLDG	BUILDING	FS-#	FILTRATION SYSTEM	RPM	REVOLUTIONS PER MINUTE
CAB	CABINET	FSC	FIRE SUPPRESSION CONTRACTOR	S	SMOKE DAMPER
CD-#	CEILING DIFFUSER	FT	FEET	SA	SUPPLY AIR
CIA	COMBUSTION INTAKE AIR	GA	GAUGE	SD-#	SUPPLY AIR DIFFUSER
CFM	CUBIC FEET PER MINUTE	GALV	GALVANIZE(D)	SG-#	SUPPLY AIR GRILLE
CHP	CHILLED WATER PUMP	GAL	GALLON	SP	STATIC PRESSURE
CHWR	CHILLED WATER RETURN	GC	GENERAL CONTRACTOR	SPEC(S)	SPECIFICATION(S)
CHWS	CHILLED WATER SUPPLY	GPM	GALLONS PER MINUTE	STD	STANDARD
CL	CENTERLINE	H	HEIGHT / HIGH	SUC	SITE UTILITY CONTRACTOR
CLG	CEILING	HC	HVAC CONTRACTOR	TEMP	TEMPERATURE
COL	COLUMN	HP	HORSE POWER	TYP	TYPICAL
COND	CONDENSATE	HPR	HIGH PRESSURE STEAM RETURN	UH-#	UNIT HEATER
CPSR	COMPRESSOR	HPS	HIGH PRESSURE STEAM SUPPLY	UNO	UNLESS NOTED OTHERWISE
CT-#	COOLING TOWER	HSW	HIGH SIDE WALL	UV	UNIT VENTILATOR
CUH-#	CABINET UNIT HEATER	HVAC	HEATING / VENTING / AIR CONDITIONING	V	VENT
CWP	CONDENSER WATER PUMP	HWP	HOT WATER PUMP	VAV	VARIABLE AIR VOLUME
CWR	CONDENSER WATER RETURN	HWR	HOT WATER RETURN	VD	VOLUME DAMPER
CWS	CONDENSER WATER SUPPLY	HWS	HOT WATER SUPPLY	VEL	VELOCITY
D	DEPTH / DEEP	ID	INSIDE DIAMETER	VFD	VARIABLE FREQUENCY DRIVE
DB	DRY BULB TEMPERATURE	INSUL	INSULATION / INSULATE	VIF	VERIFY IN FIELD
DCW	DOMESTIC COLD WATER	KW	KILOWATTS	VTR	VENT THROUGH ROOF
DHW	DOMESTIC HOT WATER	L	LENGTH / LONG	VVB	VARIABLE VOLUME BOX
DIA / Ø	DIAMETER	LPR	LOW PRESSURE STEAM RETURN	VVF	VARIABLE VOLUME FAN POWERED
DIFF	DIFFUSER	LPS	LOW PRESSURE STEAM SUPPLY	VVR	VARIABLE VOLUME REHEAT
DISCH	DISCHARGE	LSW	LOW SIDE WALL	W	WIDTH / WIDE
DWG	DRAWING	LVR	LOUVER	W/	WITH
E	EXISTING	M	METER	W/O	WITHOUT
EC	ELECTRICAL CONTRACTOR	MAX	MAXIMUM	WB	WET BULB TEMPERATURE
EF-#	EXHAUST FAN	MC	MECHANICAL CONTRACTOR	WCC	WATER COOLED CHILLER
EFF	EFFICIENCY	MECH	MECHANICAL	WH-#	WATER HEATER
EG-#	EXHAUST GRILLE	MFR	MANUFACTURER		

MECHANICAL LINETYPE LEGEND

- GENERAL DEMO
- GENERAL EXISTING
- CHR — CHILLED WATER RETURN
- CHS — CHILLED WATER SUPPLY
- CA — COMPRESSED AIR
- CD — CONDENSATE DRAIN
- CWR — CONDENSER WATER RETURN
- CWS — CONDENSER WATER SUPPLY
- HWR — HOT WATER HYDRONIC RETURN
- HWS — HOT WATER HYDRONIC SUPPLY
- LPC — LOW PRESSURE CONDENSATE
- LPS — LOW PRESSURE STEAM
- MPC — MEDIUM PRESSURE CONDENSATE
- MPS — MEDIUM PRESSURE STEAM
- N — NITROGEN
- N2O — NITROUS
- O2 — OXYGEN
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- VAC — VACUUM

ALL OTHER LINETYPES DENOTED WITH:
(AB) = ABANDONED; (D) = DEMO; (E) = EXISTING

MECHANICAL SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
M0.01	MECHANICAL COVER SHEET
M1.01	MECHANICAL FLOOR PLAN
M2.01	MECHANICAL ROOF PLAN
M5.01	MECHANICAL DETAILS
M6.01	MECHANICAL SCHEDULES
M6.02	MECHANICAL SCHEDULES
M8.01	MECHAINCAL COMCHECK

HVAC GENERAL NOTES:

1. ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE 2012 INTERNATIONAL MECHANICAL CODE, THE 2012 INTERNATIONAL BUILDING CODE, THE 2009 INTERNATIONAL ENERGY CONSERVATION CODE, STATE AMENDMENTS, NFPA 90A, 96, 101, UNDERWRITERS LABORATORIES AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
2. THE LOCATIONS, ARRANGEMENT AND EXTENT OF EQUIPMENT, DEVICES, CONDUIT, AND OTHER APPURTENANCES RELATED TO THE INSTALLATION OF MECHANICAL WORK SHOWN ON DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL NOT SCALE DRAWINGS, BUT SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS OF BUILDING COMPONENTS. SHOULD A CONFLICT EXIST BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS REGARDING DIMENSIONS AND SCALE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF THE DISCREPANCY.
3. THE CONSTRUCTION DOCUMENTS SHALL BE COMPRISED OF BOTH PLANS AND SPECIFICATIONS; THEREFORE, ALL HVAC WORK PERFORMED SHALL CONFORM TO THE REQUIREMENTS DESCRIBED IN BOTH. NEITHER SHALL TAKE PRECEDENCE OVER THE OTHER, BUT RATHER, THEY SHALL BE AN EXTENSION OF EACH OTHER. SHOULD A CONFLICT EXIST BETWEEN THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF THE DISCREPANCY.
4. MATERIALS, EQUIPMENT OR LABOR NOT INDICATED BUT WHICH CAN BE REASONABLY INFERRED TO BE NECESSARY FOR A COMPLETE INSTALLATION SHALL BE PROVIDED. DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT, OR LABOR REQUIRED TO PRODUCE A COMPLETE AND PROPERLY OPERATING INSTALLATION.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCTWORK SIZES AND LOCATIONS, EQUIPMENT, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK, AND SHALL REPORT ANY DEVIATIONS TO THE ARCHITECT.
6. UNLESS OTHERWISE NOTED, ALL EXISTING EQUIPMENT, DUCTWORK, DIFFUSERS, ETC. SHOWN AS BEING REMOVED AS PART OF THIS CONTRACT SHALL BECOME THE PROPERTY OF THE HVAC CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE PRIOR TO PROJECT COMPLETION.
7. ANY WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THE HVAC WORK SHALL BE REPAIRED TO NEW CONDITION.
8. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH UNDERWRITER'S APPROVAL, MANUFACTURER'S RECOMMENDATIONS, GOOD ENGINEERING PRACTICE, AND ALL APPLICABLE CODE REQUIREMENTS.
9. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
10. ALL HVAC COMPRESSORS SHALL HAVE EXTENDED 4 YEAR MANUFACTURER'S WARRANTY FOR A 5-YEAR TOTAL WARRANTY.
11. EQUIPMENT SHALL BE LOCATED AT LEAST 10'-0" FROM ALL ROOF EDGES OR OPEN SIDES OF A WALKING SURFACE WHERE SUCH OPEN SIDE IS MORE THAN 30" ABOVE THE ADJACENT SURFACE. WHERE EQUIPMENT IS WITHIN 10'-0" OF SUCH DROPOFFS, FALL PROTECTION GUARDS SHALL BE PROVIDED. GUARDS SHALL BE MINIMUM 42" TALL AND EXTEND AT LEAST 30" BEYOND EACH END OF THE EQUIPMENT. GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21" SPHERE AND SHALL COMPLY WITH LOADING REQUIREMENTS OF THE IBC.
12. AIR HANDLING AND FAN COIL UNITS LOCATED ABOVE THE LOWEST LEVEL FINISHED FLOOR SHALL BE INSTALLED WITH AN AUXILIARY CONDENSATE DRAIN PAN UNDER THE UNIT. PROVIDE AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION IN SECONDARY DRAIN PAN.
13. PANCAKE STYLE AIR HANDLERS LOCATED ABOVE TOILET AREAS SHALL BE INSTALLED IN A MINIMUM 14-INCH DEEP INSIDE CLEAR FURRDOWN RETURN AIR PLENUM, REFERENCE ARCHITECTURAL PLANS.
14. MOUNT TOP OF THERMOSTATS AND OTHER CONTROL DEVICES 46" AFF UNLESS NOTED OTHERWISE. ALL THERMOSTATS LOCATED IN CENTER MANAGER OFFICE. COORDINATE THERMOSTAT LOCATIONS WITH OTHER TRADES.
15. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.
16. ALL PIPE AND DUCT PENETRATIONS OF FIRE AND/OR SMOKE-RATED ASSEMBLIES SHALL BE FIRE-STOPPED AS REQUIRED TO RESTORE THE ASSEMBLY TO ITS ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY TREMCO, HILTI, 3M OR APPROVED EQUAL.
17. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS AND IN WALL STRUCTURE TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF EQUIPMENT AND BALANCING OF SYSTEMS. ACCESS PANELS IN CEILING AND WALLS SHALL BE PROVIDED WHERE SHOWN ON THE DRAWINGS OR NECESSARY TO ACCESS DAMPERS, VALVES, ETC. COORDINATE EXACT LOCATION OF ALL ACCESS PANELS WITH THE ARCHITECT DURING THE SHOP DRAWING PROCESS.
18. ALL MECHANICAL EQUIPMENT SHALL BE LABELED WITH A SEMI-RIGID PLASTIC LAMINATE NAMEPLATE WITH 2" HIGH WHITE LETTERS ON A BLACK BACKGROUND SECURELY AFFIXED TO THE EQUIPMENT. THE NAMEPLATE SHALL SHOW THE EQUIPMENT TAG USED ON THESE DRAWINGS.
19. REFER TO ARCHITECTURAL PLANS FOR FLOOR AND CEILING ASSEMBLY UL RATINGS AND DETAILS.
20. WHERE PLANS CALL FOR UNDERCUT DOORS IN FIRE-RATED WALLS, UNDERCUT SHALL NOT EXCEED 3/4" PER NFPA-80.
21. SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: ALL EQUIPMENT SCHEDULED OR SPECIFIED ON THE DRAWINGS; DUCTWORK DRAWN THE SCALE SHOWN ON THE DRAWINGS, REFRIGERANT PIPING AND CONTROL WIRING SCHEMATICS CERTIFIED BY THE AIR CONDITIONING EQUIPMENT MANUFACTURER. LONG LINE REFRIGERANT PIPING APPLICATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT SPLIT SYSTEM LONG-LINE APPLICATION GUIDELINE.

MECHANICAL/ELECTRICAL COORDINATION:

22. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN. SHOP DRAWING SUBMITTALS SHALL CLEARLY STATE THAT THE ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT HAS BEEN COORDINATED WITH THE ELECTRICAL CONTRACT DOCUMENTS AND THE ELECTRICAL CONTRACTOR.
23. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS AND THE ELECTRICAL DRAWINGS.
24. ALL REQUIRED CONTROL WIRING (INCLUDING POWER WIRING REQUIRED FOR CONTROL PANELS, DEVICES, ETC.) NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK. WIRING IN HVAC PLENUM SPACES SHALL BE INSTALLED ACCORDING TO CODE REQUIREMENTS.
25. UNLESS NOTED OTHERWISE, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED WITH THE EQUIPMENT IT SERVES AND INSTALLED BY THE MECHANICAL CONTRACTOR. MOTOR STARTERS FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

AIR DISTRIBUTION:

26. SUPPLY, RETURN, OUTSIDE, AND EXHAUST AIR DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEETMETAL IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION. WHERE DUCTWORK PENETRATES A 1-HR FIRE-RATED ASSEMBLY, MINIMUM 26 GAGE GALVANIZED STEEL SHALL BE USED FOR THE ENTIRE LENGTH OF THE DUCT. ALL JOINTS AND SEAMS IN ALL SHEETMETAL DUCTWORK SHALL BE SEALED WITH DUCT SEALER.
27. ALL DUCTWORK SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND ATTACHMENT TO STRUCTURE SHALL BE PER SMACNA STANDARDS.
28. TAPE, BED AND SEAL AIR TIGHT ALL PENETRATIONS FROM RETURN AIR PLENUMS TO NON RETURN AIR PLENUMS THAT ARE REQUIRED DUE TO DUCTWORK, PIPING OR OTHER ITEMS.
29. EXHAUST AND OUTDOOR AIR INTAKE DUCTWORK SHALL BE FURNISHED WITH A BUILT-IN BACK-DRAFT DAMPER (GRAVITY TYPE UNLESS NOTED OTHERWISE ON PLANS) AND MESH INSECT SCREEN (EXCEPT DRYER VENTS).
30. PORTIONS OF DUCTWORK AND PIPE INSULATION VISIBLE THROUGH AIR DISTRIBUTION DEVICES IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
31. DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS.
32. LOCATIONS OF GRILLES, REGISTERS, & DIFFUSERS SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH CEILING GRID, LIGHT FIXTURES, SPRINKLER HEADS, SPEAKERS, SMOKE ALARMS, ETC. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
33. DUCTWORK CONNECTING KITCHEN EXHAUST HOODS TO EXHAUST FANS SHALL BE CONSTRUCTED OF 16 GAUGE BLACK STEEL WITH WELDED SEAMS. ALL GREASE EXHAUST DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED ACCORDING TO REQUIREMENTS OF LOCAL CODE AUTHORITIES AND NFPA 96 REQUIREMENTS. INSTALL GASKETED ACCESS DOORS AT 20' ON CENTER AND AT EACH CHANGE OF DIRECTION.
34. AFTER CONSTRUCTION, THE ENTIRE HVAC SYSTEM SHALL BE TESTED, ADJUSTED, AND BALANCED TO DELIVER THE AIR AND WATER QUANTITIES SHOWN ON THE DRAWINGS (NOT APPLICABLE TO DWELLING UNITS). SUBMIT CERTIFIED (AABC OR NEBB) TEST AND BALANCE REPORT TO THE ARCHITECT FOR APPROVAL. NOT APPLICABLE TO DWELLING UNITS.

SYSTEM COMMISSIONING:

35. PRIOR TO THE FINAL MECHANICAL AND PLUMBING INSPECTIONS, AN APPROVED AGENCY CONTRACTED BY THE OWNER SHALL COMMISSION ALL MECHANICAL SYSTEMS AS DESCRIBED BELOW. EXCEPTION: EQUIPMENT SERVING INDIVIDUAL DWELLING OR SLEEPING UNITS.
36. ALL AIR-MOVING SYSTEMS WITH A FAN MOTOR GREATER THAN 1 HP SHALL BE BE TESTING AND BALANCED. ALL SUPPLY AIR DUCTS SHALL HAVE A MANUAL VOLUME DAMPER. ALL DAMPERS SHALL FIRST BE ADJUSTED SO AS TO LIMIT THROTTLING LOSSES, THEN FAN POWER SHALL BE ADJUSTED TO ACHIEVE DESIGN AIRFLOWS SHOWN ON PLANS.

36.1. ALL SYSTEMS WITH FAN MOTORS OF 1 HP OR LESS WITH SUPPLY AIR DUCTS INDICATED ELSEWHERE IN THESE DOCUMENTS TO HAVE MANUAL VOLUME DAMPERS SHALL BE BALANCED TO DELIVER THE AIRFLOWS SHOWN ON PLANS, BUT ARE NOT REQUIRED TO BE INCLUDED IN THE PRELIMINARY OR FINAL COMMISSIONING REPORT GIVEN TO THE OWNER AND INSPECTOR.

37. ALL SYSTEMS WITH SUPPLY AIR ECONOMIZERS SHALL RECEIVE A FULL FUNCTION TESTING TO CONFIRM COMPLIANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND PERFORMANCE SETPOINTS DESCRIBED ON PLANS. TESTING SHALL INCLUDE ALL MODES AND SEQUENCE OF OPERATION, INCLUDING UNDER FULL-LOAD, PART-LOAD, AND THE FOLLOWING EMERGENCY CONDITIONS:

37.1. ALL MODES AS DESCRIBED IN THE SEQUENCE OF OPERATION.
37.2. REDUNDANT OR AUTOMATIC BACK-UP MODE.
37.3. PERFORMANCE OF ALARMS.
37.4. MODE OF OPERATION UPON A LOSS OF POWER AND RESTORATION OF POWER.

38. A "PRELIMINARY COMMISSIONING REPORT" DETAILING ALL TESTING ACTIVITIES, ITEMIZED LIST OF DEFICIENCIES, DEFERRED TESTS NOT PERFORMED DUE TO CLIMATIC CONDITIONS, AND CLIMATIC CONDITIONS AT THE TIME OF TESTING SHALL BE PROVIDED TO THE OWNER (OR OWNER'S AGENT) AND THE CODE OFFICIAL.

38.1. THE BUILDING OWNER (OR OWNER'S AGENT) MUST ISSUE A LETTER OF TRANSMITTAL TO THE CODE OFFICIAL ACKNOWLEDGING RECEIPT OF THE PRELIMINARY COMMISSIONING REPORT BEFORE THE BUILDING WILL BE CONSIDERED ELIGIBLE FOR FINAL INSPECTION.

39. CONTRACTOR SHALL PROVIDE THE BUILDING OWNER (OR OWNER'S AGENT) WITH AN OPERATIONS AND MAINTENANCE MANUAL INCLUDING THE FOLLOWING:

39.1. SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTION FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
39.2. MANUFACTURER'S OPERATIONS MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
39.3. NAME AND ADDRESS OF AT LEAST ONE SERVICE AGENCY.
39.4. HVAC AND SERVICE HOT WATER CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OF FIELD-DETERMINED SET POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR, FOR DIGITAL CONTROL SYSTEMS, IN SYSTEM PROGRAMMING INSTRUCTIONS.
39.5. A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SET POINTS.

40. A "FINAL COMMISSIONING REPORT" DETAILING ALL TESTING PROCEDURES AND RESULTS SHALL BE DELIVERED TO THE BUILDING OWNER (OR OWNER'S AGENT). THE FINAL REPORT SHALL INCLUDE ALL INFORMATION AS DESCRIBED ABOVE IN THE PRELIMINARY REPORT, EXCEPT THAT NO DEFERRED TESTS SHALL BE PERMITTED.

PROFESSIONAL SEAL

STATE OF TEXAS · ROBERT M. RUDOLPH · 106840 · LICENSED PROFESSIONAL ENGINEER

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

GCAM Plasma

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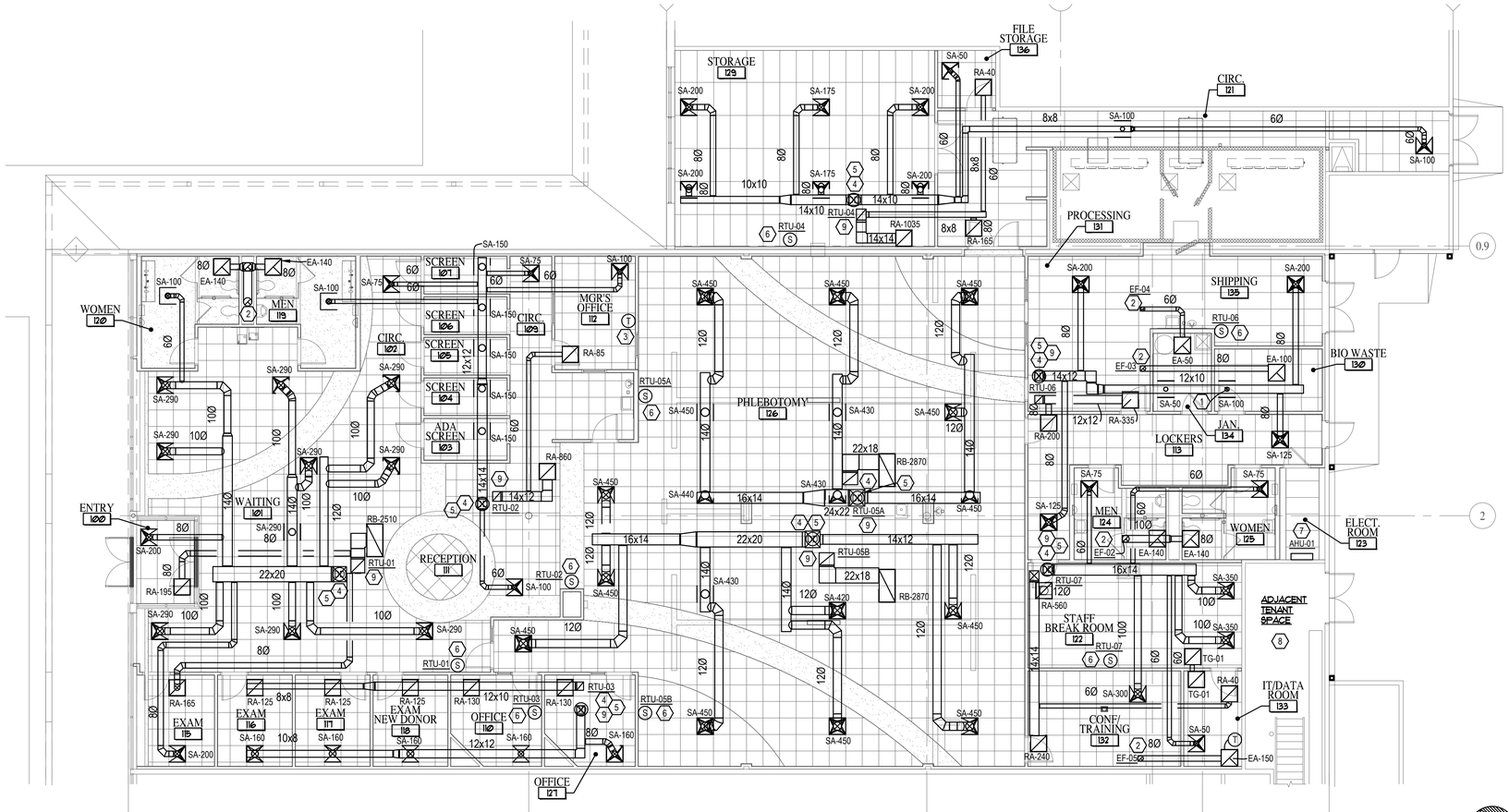
CONTRACTOR NOTE

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD AND TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.

BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE, LOCAL AND FEDERAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION AND CODE/REQUIREMENTS REVIEW BEEN MADE, WILL NOT BE ALLOWED.

MECHANICAL COVER SHEET

M0.01



MECHANICAL FLOOR PLAN | 1

1/8" = 1'-0" | M1.01

NORTH

PLAN NOTES:

1. PROVIDE BACK DRAFT DAMPER IN DUCT SERVING BIO-HAZARD WASTE.
2. ROUTE EXHAUST DUCT UP THROUGH ROOF TO ROOF MOUNTED EXHAUST FAN.
3. THERMOSTATS (TYP. 5) TO BE LOCATED IN MANAGER'S OFFICE. THERMOSTATS TO RECEIVE SIGNALS FROM REMOTE SENSORS IN LOCATIONS SHOWN ON PLAN. MOUNT 60" AFF.
4. DUCT SMOKE DETECTOR SHALL BE CONNECTED TO FIRE ALARM SYSTEM AND SHALL SHUT DOWN RTU UPON FIRE ALARM ACTIVATION. PROVIDE REMOTE KEY TEST SWITCH AND ANNUNCIATOR IN CEILING NEAR RTU.
5. OUTSIDE AIR DAMPER SHALL BE SET TO FULLY CLOSE DURING UNOCCUPIED HOURS.
6. LOCATE REMOTE TEMP SENSOR AT 6' AFF ON WALL BOX. EXTEND 18/2 SHIELDED LOW VOLTAGE CABLE FROM REMOTE TEMP SENSOR TO THERMOSTAT LOCATED IN CENTER MANAGER 112.
7. ROUTE CONDENSATE TO NEAREST FLOOR DRAIN.
8. NO WORK DONE IN ADJACENT TENANT SPACE.
9. ROUTE SA AND RA DUCT UP TO RTU LOCATED ON ROOF.

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CONTRACTOR NOTE

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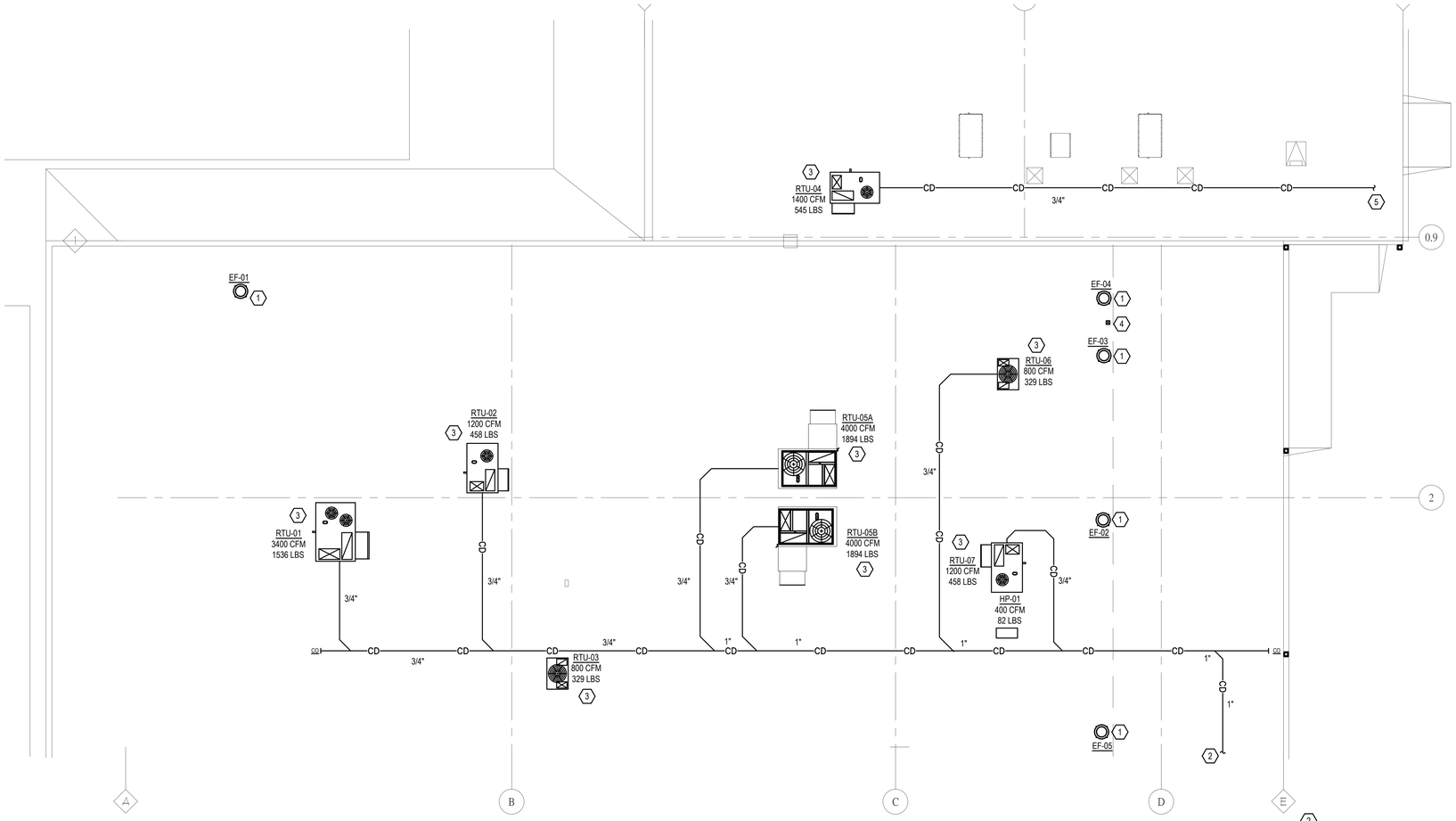
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MECHANICAL FLOOR PLAN

M1.01

PLAN NOTES:

1. ROUTE EXHAUST DUCT UP THROUGH ROOF TO ROOF MOUNTED EXHAUST FAN.
2. FIELD VERIFY EXACT LOCATION OF EXISTING CONDENSATE COLLECTION PIPE. ROUTE COLLECTED CONDENSATE FROM NEW ROOF TOP EQUIPMENT TO EXISTING CONDENSATE COLLECTION PIPE ON THE BACK OF BUILDING.
3. CONTRACTOR SHALL PROVIDE NEW ROOF TOP UNIT IN THIS APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH STRUCTURE.
4. ROUTE WATER HEATER FLUE AND COMBUSTION AIR INTAKE, SIZED PER MANUFACTURER'S REQUIREMENTS, UP THROUGH ROOF WITH CONCENTRIC VENT KIT.
5. ROUTE THE CONDENSATE FROM RTU-04 INTO THE STORM GUTTER AT THE ROOF LINE.



MECHANICAL ROOF PLAN | 1
1/8" = 1'-0" | M2.01

NORTH

PROFESSIONAL SEAL

STATE OF TEXAS
ROBERT R. RUDOLPH
106840
LICENSED
PROFESSIONAL ENGINEER

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

GCAM Plasma

419 E. UNIVERSITY DRIVE
EDINBURG, TX 78539

ARCHITECT:

CASLER
DESIGN GROUP, INC.
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JOB NUMBER	PES - 19005
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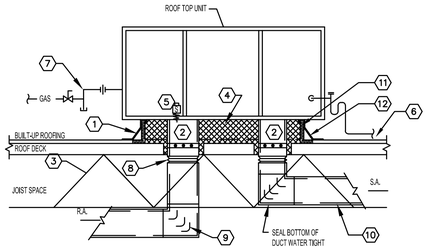
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MECHANICAL ROOF PLAN

M2.01



GENERAL NOTES

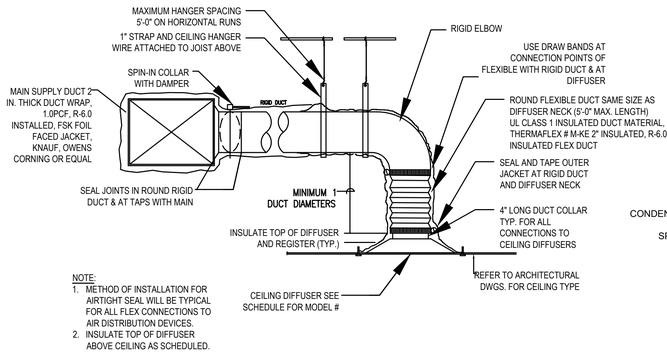
MECHANICAL CONTRACTOR SHALL COORDINATE ALL ROOF OPENINGS.

SEAL ALL DUCTWORK OPENINGS WITH NON- HARDENING MASTIC.

DUCTWORK TO BE MOUNTED UP WITH-IN JOIST SPACE WHENEVER POSSIBLE.

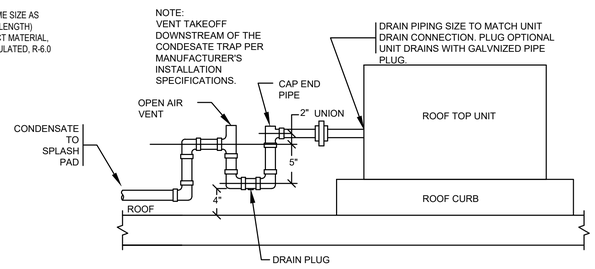
1. PREFABRICATED ROOF CURB. SET ROOF CURB ON STRUCTURAL STEEL AND SHIM DEAD LEVEL. SECURE ROOF CURB TO METAL DECK AND RTU TO ROOF CURB.
2. TRANSITION TO CONNECTION SIZES IN DUCT RISE. REFER TO PLANS FOR SIZES.
3. REFER TO STRUCTURAL DRAWINGS FOR JOIST LOCATIONS, SIZES, AND DIRECTION.
4. PACK OPENING BETWEEN ROOF DECK AND DUCTS AND ENTIRE CURB CAVITY WITH FIBERGLASS INSULATION. PROVIDE 3 ALT. LAYERS OF 5/8" G.W.B. AND 1" RIGID INSULATION. SEAL AND STAGGER ALL SEAMS. PROVIDE SHEETMETAL ENCLOSURE AT DUCT PENETRATION OF METAL ROOF DECK TO COVER UP AND HOLD INSULATION IN PLACE.
5. FACTORY INSTALLED SMOKE DETECTORS IN RETURN AIR OPENINGS OF RTU TO SHUT DOWN RTU UPON ALARM.
6. CONDENSATE DRAIN WITH CLEANOUT AND 4" DEEP SEAL TRAP. DISCHARGE TO SPLASH PAD ON ROOF WITH APPROVED AIR GAP.
7. GAS CONNECTION WITH GAS COCK, UNION AND DIRTLEG.
8. FLEXIBLE CONNECTION (TYPICAL).
9. TURNING VANES (TYPICAL).
10. DUCTWORK TO BE ROUTED UP BETWEEN JOIST AS HIGH AS POSSIBLE WHENEVER POSSIBLE. MODIFY RETURN AIR DUCTWORK AS REQUIRED TO FIT UP BETWEEN JOIST SPACE WHILE MAINTAINING EQUIVALENT FREE AREA OF DUCT SIZE CALLED OUT ON MECHANICAL FLOOR PLAN.
11. 2" RIGID INSULATION.
12. ROOF FLASHING.

ROOF TOP UNIT DETAIL | 1
N.T.S. | M5.01



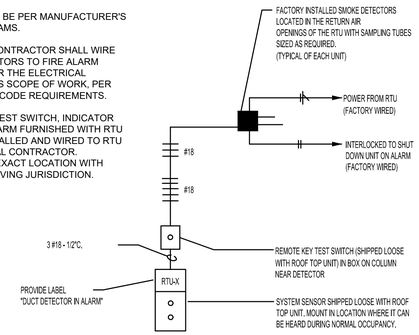
NOTE:
1. METHOD OF INSTALLATION FOR AIRTIGHT SEAL WILL BE TYPICAL FOR ALL FLEX CONNECTIONS TO AIR DISTRIBUTION DEVICES.
2. INSULATE TOP OF DIFFUSER ABOVE CEILING AS SCHEDULED.

FLEX DUCT DETAIL | 2
N.T.S. | M5.01

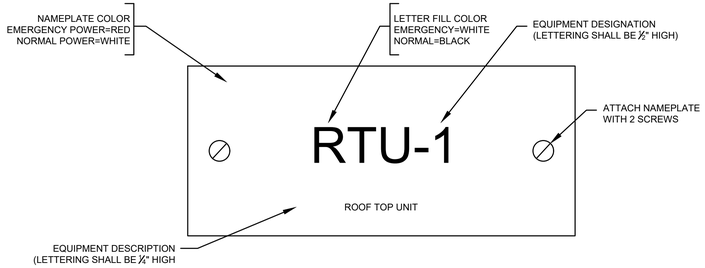


CONDENSATE DRAIN DETAIL | 3
N.T.S. | M5.01

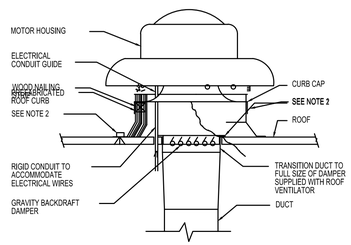
NOTES:
A. ALL WIRING TO BE PER MANUFACTURER'S WIRING DIAGRAMS.
B. ELECTRICAL CONTRACTOR SHALL WIRE SMOKE DETECTORS TO FIRE ALARM SYSTEM UNDER THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK, PER SITE SPECIFIC CODE REQUIREMENTS.
C. REMOTE KEY TEST SWITCH, INDICATOR LIGHT, AND ALARM FURNISHED WITH RTU SHALL BE INSTALLED AND WIRED TO RTU BY MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH AUTHORITY HAVING JURISDICTION.



DUCT SMOKE DETECTOR WIRING DETAIL | 4
N.T.S. | M5.01



ROOF TOP UNIT NAMEPLATE DETAIL | 5
N.T.S. | M5.01



NOTES:
1. SECURE CURB CAP TO WOOD NAILING STRIP WITH 3/8" (10 MM) CADMIUM PLATED LAG BOLTS NOT OVER 12" (300 MM) ON CENTER.
2. SECURE ROOF CURB, DUCTWORK AND DAMPER TO ROOF WITH EXPANSION BOLTS (CONCRETE ROOF) OR RUST RESISTANT BOLTS (METAL DECK AND BAR JOIST ROOF).
3. SIZE OF DUCT THROUGH ROOF SHALL NOT BE LARGER THAN CURB SUPPLIED WITH ROOF VENTILATOR.
4. RUN ELECTRICAL LINES THROUGH CLEARANCE HOLE PROVIDED IN GRAVITY DAMPER THEN THROUGH VENTILATOR ELECTRICAL CONDUIT GUIDE.

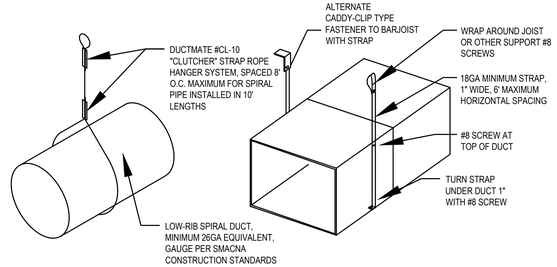
EXHAUST FAN DETAIL | 7
N.T.S. | M5.01

RECTANGULAR DUCT HANGERS MINIMUM SIZES				
MAXIMUM HALF OF DUCT PERIMETER	PAIR AT 10FT. SPACING (GAUGE NO.)		PAIR AT 8FT. SPACING SHEET (IN.)	
	STRAP	ROD	STRAP	ROD
P/2=72"	1" x 22GA	1/4"	1" x 22GA	1/4"
P/2=96"	1" x 18GA	3/8"	1" x 18GA	3/8"

NOTE: PROVIDE HANGER WITHIN 12" OF EACH SIDE OF ELBOW.

ROUND DUCT HANGERS MINIMUM SIZES		
DUCT DIAMETER	STRAP HANGERS	MAXIMUM SPACING
UP THROUGH 26"Ø	ONE-1"x22 GA	12 FEET

NOTE: PROVIDE HANGER WITHIN 12" OF EACH SIDE OF ELBOW.



NOTE:
PROVIDE SUPPORT AT EACH SIDE OF ALL ELBOWS/TURNS WITHING 12" OF THE ELBOW OR TURN

RIGID DUCT DETAIL | 6
N.T.S. | M5.01

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MECHANICAL DETAILS

M5.01

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PACKAGED DX ROOFTOP UNITS - ELECTRIC HEATING

DESIG.	SERVES	NOM. TONS	FAN				COOLING @ AMBIENT (°F) = 95					HEATING @ AMBIENT (°F) = 30					CARRIER MODEL NUMBER	ACCESSORIES	WEIGHT LBS	ELECTRICAL		
			TOTAL CFM	O.A. CFM	ESP (IN WG)	BHP	TOTAL MBH	SENS MBH	EAT DB/WB	LAT DB/WB	SEER (EER)	KW RATING @230 V	ACTUAL KW OUT	NO. OF STAGES	EAT DB	LAT DB				VOLT/ PHASE	MCA	MOCP
RTU-01	WAITING	8.5	3400	530	0.6	1.01	102.6	96.7	85/67	55/54	(13.7)	33.5	25.2	2	62	85	50LCFA09B2A5-0E4F0	1,2,3,4,5,6,7,8,9,10,11,12,14	1536	208/3	108.0	110
RTU-02	SCREEN	3.0	1200	255	0.4	0.34	37.0	34.1	85/67	55/54	15.5 (12.0)	16.0	12.0	2	60	92	50LCFA04B2A5-0A4F0	1,2,3,4,5,6,7,8,12,14	458	208/3	56.0	60
RTU-03	EXAM	2.0	800	165	0.5	0.26	25.3	18.3	85/67	55/54	14.0 (11.5)	10.0	7.5	1	60	90	50VL-C24---30LT	1,2,3,4,5,6,7,8,12	329	208/1	49.9	50
RTU-04	STORAGE	3.5	1400	160	0.4	0.45	48.0	41.1	85/67	55/54	16.4 (12.6)	16.0	12.0	2	64	91	50LCFA05A2A5-0A4F0	1,2,3,4,5,6,7,8,12,14	545	208/3	58.0	60
RTU-05A	PHLEBOTOMY LAB	10.0	4000	1130	0.4	1.42	119.5	110.2	85/67	55/54	(11.7)	50.0	37.6	2	57	87	50HCCE12B2A5A0R4F0	1,2,3,4,5,6,7,8,9,10,11,12,14,15	1894	208/3	149.0	150
RTU-05B	PHLEBOTOMY LAB	10.0	4000	1130	0.4	1.42	119.5	110.2	85/67	55/54	(11.7)	50.0	37.6	2	57	87	50HCCE12B2A5A0R4F0	1,2,3,4,5,6,7,8,9,10,11,12,14,15	1894	208/3	149.0	150
RTU-06	PROCESSING	2.0	800	130	0.5	0.26	25.3	18.3	85/67	55/54	14.0 (11.5)	10.0	7.5	1	62	91	50VL-C24---30LT	1,2,3,4,5,6,7,8,12	329	208/1	49.9	50
RTU-07	STAFF BREAKROOM	3.0	1200	210	0.4	0.34	37.0	34.1	85/67	55/54	15.5 (12.0)	16.0	12.0	2	61	93	50LCFA04B2A5-0A4F0	1,2,3,4,5,6,7,8,12,14	458	208/3	56.0	60

NOTES:
A. ALL SYSTEMS SHALL USE R-410A REFRIGERANT.
B. ALL EQUIPMENT SHALL BE INSTALLED SO AS TO MAINTAIN ALL CODE AND MANUFACTURER REQUIED CLEARANCES FOR SERVICE, ACCESS, AND OPERATION.
C. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
D. ADJUST BLOWER SPEED TAP IN FIELD AS NEEDED TO PROVIDE TOTAL CFM SHOWN IN SCHEDULE.

ACCESSORIES:
1. FACTORY- MOUNTED NON-FUSED DISCONNECT SWITCH.
2. 7-DAY PROGRAMMABLE THERMOSTAT WITH MANUAL OVER-RIDE, SETBACK, AND TIME DELAY RELAY.
3. MERV 6 FILTER IN INTEGRAL FILTER RACK.
4. THRU-BASE ELECTRICAL CONNECTIONS.
5. 14" HIGH INSULATED ROOF CURB.
6. PROVIDE SAFE-T-SWITCH FOR SECONDARY CONDENSATE.
7. FACTORY NON-POWERED CONVENIENCE OUTLET.
8. HAIL GUARDS ON CONDENSER COILS.
9. MOTORIZED OUTSIDE AIR DAMPER.
10. POWERED EXHAUST FAN.
11. SMOKE DETECTOR IN RETURN AIR PATH.
12. HOT GAS REHEAT.
13. LOW AMBIENT COOLING CAPABILITY DOWN TO 0 DEG. F.
14. DIFFERENTIAL ENTHALPY ECONOMIZER DAMPERS, SENSORS, CONTROLS, ETC.
15. ENERGY RECOVERY WHEEL.

DX SPLIT SYSTEM HEAT PUMPS

DESIG.	SERVES	NOM. TONS	FAN				COOLING @ AMBIENT (°F) = 95					AHU / HP GOODMAN MODEL NUMBER	ACCESSORIES	ELECTRICAL		
			TOTAL CFM	O.A. CFM	ESP (IN WG)	HP	TOTAL MBH	SENS MBH	EAT DB/WB	LAT DB/WB	SEER (EER)			CIRCUIT #1		
														V / PH	MCA	MOCP
AHU-01	ELEC / DATA	1.0	400	0	0	NA	12.0	NA	85/67	55/54	15.2 (10.1)	PKA-A12HA6	2,4,5,6,7	208/1		
HP-01												PUY-A12NHA6 -BS		208/1	12.0	15

NOTES:
A. ALL SYSTEMS SHALL USE R-410A REFRIGERANT.
B. ALL EQUIPMENT SHALL BE INSTALLED SO AS TO MAINTAIN ALL CODE AND MANUFACTURER REQUIED CLEARANCES FOR SERVICE, ACCESS, AND OPERATION.
C. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
D. ADJUST AIR HANDLER BLOWER SPEED TAP IN FIELD AS NEEDED TO PROVIDE TOTAL CFM SHOWN IN SCHEDULE.

ACCESSORIES:
1. FIELD-INSTALLED ELECTRIC HEAT KIT WITH THERMAL OVERLOADS.
2. 7-DAY PROGRAMMABLE THERMOSTAT WITH MANUAL OVER-RIDE, SETBACK, AND TIME DELAY RELAY.
3. MERV 6 FILTER IN INTEGRAL FILTER RACK.
4. FACTORY-MOUNTED THERMAL EXPANSION VALVE IF REQUIRED FOR SPECIFIED SEER RATING.
5. BI-FLOW FILTER DRYER.
6. PROVIDE SAFE-T-SWITCH FOR SECONDARY CONDENSATE.
7. LOCKABLE REFRIGERANT SERVICE PORT CAPS.
8. FACTORY-INSTALLED ELECTRIC HEAT KIT WITH THERMAL OVERLOADS.
9. FACTORY NON-LOUVERED CEILING ACCESS PANEL.
10. DIFFERENTIAL ENTHALPY ECONOMIZER DAMPERS, SENSORS, CONTROLS, ETC.

FANS

DESIG.	SERVES	CONTROL	CFM	ESP. IN W.G.	DRIVE	MOTOR WATTS (HP)	STARTER	SONES	GREENHECK (U.N.O) MODEL	ACCESSORIES	ELECTRICAL VOLT/ PHASE
EF-01	BATHROOMS	CONTINUOUS	280	0.25	DIRECT	(1/10)	NA	4.2	G-090-VG	1,2,4,7	115/1
EF-02	BATHROOMS	CONTINUOUS	280	0.25	DIRECT	(1/10)	NA	4.2	G-090-VG	1,2,4,7	115/1
EF-03	BIO WASTE	CONTINUOUS	100	0.25	DIRECT	(1/15)	NA	3.3	G-060-VG	1,2,4,7	115/1
EF-04	JAN	CONTINUOUS	50	0.139	DIRECT	(1/200)	NA	1.7	G-060-E	1,2,4,7	115/1
EF-05	IT/DATA ROOM	T-STAT	150	0.25	DIRECT	(1/15)	NA	2.6	G-070-VG	1,2,4,7	115/1

NOTES:
A. ALL FANS TO HAVE OSHA GUARDS.
B. ALL EQUIPMENT SHALL BE INSTALLED SO AS TO MAINTAIN ALL CODE AND MANUFACTURER REQUIED CLEARANCES FOR SERVICE, ACCESS, AND OPERATION.
C. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
D. CONTROL TYPE:
CONTINUOUS = ALWAYS ON.
AHU = FAN OPERATES WHEN AIR HANDLER IS RUNNING.
SWITCH = DEDICATED ON / OFF WALL SWITCH LOCATED IN SPACE SERVED.
LIGHT = INTERLOCK TO LIGHT IN SPACE SERVED.
T-STAT = FAN OPERATES WHEN SPACE TEMPERATURE EXCEEDS SETPOINT OF THERMOSTAT (85F).
GAS = FAN OPERATES UPON ALARM FROM GAS MONITORING SYSTEM.
SMOKE = FAN OPAREATES UPON ALARM FROM SMOKE DETECTOR.
OCCUPANCY SENSOR = FAN OPERATES UPON SIGNAL FROM OCCUPANCY SENSOR IN THE SPACE.
TIMECLOCK = FAN OPERATES DURING BUSINESS HOURS, AS DETERMINED BY PROGRAMMABLE TIMECLOCK AT ELECTRICAL PANEL.

ACCESSORIES:
1. GRAVITY BACKDRAFT DAMPER.
2. GALVANIZED BIRDSCREEN.
3. MESH INSECT SCREEN.
4. PRE-WIRED NON-FUSED SERVICE DISCONNECT.
5. SPEED CONTROLLER.
6. AUTOMATIC BELT TENSIONER.
7. 14" HIGH ROOF CURB.
8. 14" HIGH HINGED, VENTED ROOF CURB.
9. CEILING RADIATION DAMPER.
10. MOTORIZED BACKDRAFT DAMPER.
11. WALL SLEEVE.
12. MOTORSIDE OSHA GUARD.
13. COMBINATION STARTER / DISCONNECT.
14. WEATHERHOOD.
15. VARIABLE FREQUENCY DRIVE.
16. FILTERING BOX

GRILLES - REGISTERS - DIFFUSERS

DESIG.	DUTY	TYPE	FRAME TYPE	MATERIAL	FINISH	NECK SIZE (IN)	FACE SIZE (IN)	MANUFACTURER / MODEL
SA	SUPPLY	4 WAY	CELING	STEEL	WHITE	AS NOTED	24X24	TITUS OMNI
RA	RETURN	LOUVERED	CEILING	STEEL	WHITE	AS NOTED	24X24	KRUEGER S80H
RB	RETURN	LOUVERED	CEILING	STEEL	WHITE	AS NOTED	48X24	KRUEGER S80H
TG	TRANSFER	LOUVERED	CEILING	STEEL	WHITE	AS NOTED	24X24	KRUEGER S80H
EA	EXHAUST	LOUVERED	CEILING	STEEL	WHITE	AS NOTED	24X24	KRUEGER S80H

PROFESSIONAL SEAL

STATE OF TEXAS
ROBERT R. RUDOLPH
106840
LICENSED PROFESSIONAL ENGINEER

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F-10841
EXP: 11/30/19

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MECHANICAL SCHEDULES

M6.01

Project: GCAM TI-Edinburg, TX

Project No: 19005 Date: 3/4/2019

IMC Table 403.3

UNIT NO.	ROOM NO.	AREA S.F.	AREA SERVED	PERSONS PER 1000 S.F.	NO. OF PEOPLE	CFM PER PERSON	CFM PER S.F.	O.A. REQUIRED	S.A. PROVIDED	O.A. PROVIDED	NOTES
RTU-01	100	50	ENTRY	0	0	0	0.06	4	200	31	
	101	1163	WAITING	PER ARCH PLANS	43	7.5	0.06	490	2900	452	
	115	99	EXAM	10	1	25	0	31	200	31	
	120	133	WOMEN	0	0	0	0	0	100	16	
TOTALS					44			525	3400	530	A

NOTES:
A BALANCE UNIT OUTSIDE AIR TO 16%
B DISTRIBUTION EFFECTIVENESS 0.8
C SPACES COMMUNICATE

Project: GCAM TI-Edinburg, TX

Project No: 19005 Date: 3/4/2019

IMC Table 403.3

UNIT NO.	ROOM NO.	AREA S.F.	AREA SERVED	PERSONS PER 1000 S.F.	NO. OF PEOPLE	CFM PER PERSON	CFM PER S.F.	O.A. REQUIRED	S.A. PROVIDED	O.A. PROVIDED	NOTES
RTU-02	102	209	CIRC	0	0	0	0.06	16	75	16	C
	103	50	ADA SCREEN	10	1	25	0	31	150	32	C
	104	45	SCREEN	10	1	25	0	31	150	32	C
	105	45	SCREEN	10	1	25	0	31	150	32	C
	106	45	SCREEN	10	1	25	0	31	150	32	C
	107	45	SCREEN	10	1	25	0	31	150	32	C
	109	192	CIRC	0	0	0	0.06	14	75	16	C
	111	272	RECEPTION	5	1	5	0.06	29	100	21	C
	112	133	MGRS OFFICE	5	1	5	0.06	14	100	21	
	119	133	MEN	0	0	0	0	0	100	21	
TOTALS					7			229	1200	255	A

NOTES:
A BALANCE UNIT OUTSIDE AIR TO 21%
B DISTRIBUTION EFFECTIVENESS 0.8
C SPACES COMMUNICATE

Project: GCAM TI-Edinburg, TX

Project No: 19005 Date: 3/4/2019

IMC Table 403.3

UNIT NO.	ROOM NO.	AREA S.F.	AREA SERVED	PERSONS PER 1000 S.F.	NO. OF PEOPLE	CFM PER PERSON	CFM PER S.F.	O.A. REQUIRED	S.A. PROVIDED	O.A. PROVIDED	NOTES
RTU-03	110	113	OFFICE	PER ARCH PLANS	3	5	0.06	27	160	33	
	116	99	EXAM	10	1	25	0	31	160	33	
	117	99	EXAM	10	1	25	0	31	160	33	
	118	99	EXAM NEW DONOR	10	1	25	0	31	160	33	
	127	113	OFFICE	PER ARCH PLANS	3	5	0.06	27	160	33	
TOTALS					9			147	800	165	A

NOTES:
A BALANCE UNIT OUTSIDE AIR TO 21%
B DISTRIBUTION EFFECTIVENESS 0.8
C SPACES COMMUNICATE

Project: GCAM TI-Edinburg, TX

Project No: 19005 Date: 3/4/2019

IMC Table 403.3

UNIT NO.	ROOM NO.	AREA S.F.	AREA SERVED	PERSONS PER 1000 S.F.	NO. OF PEOPLE	CFM PER PERSON	CFM PER S.F.	O.A. REQUIRED	S.A. PROVIDED	O.A. PROVIDED	NOTES
RTU-04	121	470	CIRC	0	0	0	0.06	35	200	23	
	129	746	STORAGE	0	0	0	0.12	112	1150	131	
	136	48	FILE STORAGE	0	0	0	0.12	7	50	6	
TOTALS					0			154	1400	160	A

NOTES:
A BALANCE UNIT OUTSIDE AIR TO 11%
B DISTRIBUTION EFFECTIVENESS 0.8
C SPACES COMMUNICATE

Project: GCAM TI-Edinburg, TX

Project No: 19005 Date: 3/4/2019

IMC Table 403.3

UNIT NO.	ROOM NO.	AREA S.F.	AREA SERVED	PERSONS PER 1000 S.F.	NO. OF PEOPLE	CFM PER PERSON	CFM PER S.F.	O.A. REQUIRED	S.A. PROVIDED	O.A. PROVIDED	NOTES
RTU-05A	126	1567	PHLEBOTOMY LAB	PER ARCH PLANS	36	25	0	1125	4000	1130	
TOTALS					36			1125	4000	1130	A

NOTES:
A BALANCE UNIT OUTSIDE AIR TO 28%
B DISTRIBUTION EFFECTIVENESS 0.8
C SPACES COMMUNICATE

Project: GCAM TI-Edinburg, TX

Project No: 19005 Date: 3/4/2019

IMC Table 403.3

UNIT NO.	ROOM NO.	AREA S.F.	AREA SERVED	PERSONS PER 1000 S.F.	NO. OF PEOPLE	CFM PER PERSON	CFM PER S.F.	O.A. REQUIRED	S.A. PROVIDED	O.A. PROVIDED	NOTES
RTU-05B	126	1567	PHLEBOTOMY	PER ARCH PLANS	36	25	0	1125	4000	1130	
TOTALS					36			1125	4000	1130	A

NOTES:
A BALANCE UNIT OUTSIDE AIR TO 28%
B DISTRIBUTION EFFECTIVENESS 0.8
C SPACES COMMUNICATE

Project: GCAM TI-Edinburg, TX

Project No: 19005 Date: 3/4/2019

IMC Table 403.3

UNIT NO.	ROOM NO.	AREA S.F.	AREA SERVED	PERSONS PER 1000 S.F.	NO. OF PEOPLE	CFM PER PERSON	CFM PER S.F.	O.A. REQUIRED	S.A. PROVIDED	O.A. PROVIDED	NOTES
RTU-06	113	305	LOCKERS	0	0	0	0.12	46	250	41	
	130	95	BIO WASTE	0	0	0	0.12	14	100	16	
	131	276	PROCESSING	5	1	5	0.06	29	200	32	
	134	51	JAN	0	0	0	0	0	50	8	
	135	206	SHIIPPING	0	0	0	0.12	31	200	32	
TOTALS					1			120	800	130	A

NOTES:
A BALANCE UNIT OUTSIDE AIR TO 16%
B DISTRIBUTION EFFECTIVENESS 0.8
C SPACES COMMUNICATE

Project: GCAM TI-Edinburg, TX

Project No: 19005 Date: 3/4/2019

IMC Table 403.3

UNIT NO.	ROOM NO.	AREA S.F.	AREA SERVED	PERSONS PER 1000 S.F.	NO. OF PEOPLE	CFM PER PERSON	CFM PER S.F.	O.A. REQUIRED	S.A. PROVIDED	O.A. PROVIDED	NOTES
RTU-07	122	328	STAFF BREAKROOM	PER ARCH PLANS	18	5	0.06	137	700	123	
	124	110	MEN	0	0	0	0	0	75	13	
	125	112	WOMEN	0	0	0	0	0	75	13	
	132	132	CONF/TRAINING	PER ARCH PLANS	8	5	0.06	60	300	53	
	133	80	IT/DATA ROOM	5	0	5	0.06	9	50	9	
TOTALS					26			206	1200	210	A

NOTES:
A BALANCE UNIT OUTSIDE AIR TO 18%
B DISTRIBUTION EFFECTIVENESS 0.8
C SPACES COMMUNICATE

PROFESSIONAL SEAL

STATE OF TEXAS
ROBERT R. RUDOLPH
106840
LICENSED
PROFESSIONAL ENGINEER

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

GCAM Plasma

419 E. UNIVERSITY DRIVE
EDINBURG, TX 78539

ARCHITECT:

CASLER DESIGN GROUP, INC.
Architecture • Planning • Interior Design
10805 Indeco Drive • Cincinnati, Ohio 45241
(Phone) 513.791.0456 • (Fax) 513.792.7488

CONSULTANTS:

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JOB NUMBER	PES - 19005
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CHECKED BY	RRR

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CONTRACTOR NOTE

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD AND TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.

BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE, LOCAL AND FEDERAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION AND CODE/REQUIREMENTS REVIEW BEEN MADE, WILL NOT BE ALLOWED.

MECHANICAL SCHEDULES

M6.02

COMcheck Software Version 4.1.1.0
Mechanical Compliance Certificate

Section 1: Project Information

Energy Code: **2009 IECC**
Project Title: GCAM - EDINBURG
Project Type: Alteration

Construction Site:
419 E. UNIVERSITY DRIVE
EDINBURG, TX 78539

Owner/Agent:
CASLER DESIGN GROUP, INC.
10805 INDECO DRIVE
CINCINNATI, OH 45241
513.791.0456

Designer/Contractor:
PE Services, LLC
9 North Broadway Street
Lebanon, OH 45036
866-997-0600

Section 2: General Information

Building Location (for weather data): Edinburg, Texas
Climate Zone: 2a

Section 3: Mechanical Systems List

Quantity **System Type & Description**

1 RTU-01 (Single Zone) :
Heating: 1 each - Central Furnace, Electric, Capacity = 114 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Single Package DX Unit, Capacity = 103 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 13.70 EER, Required Efficiency: 11.20 EER
Fan System: FAN SYSTEM 2 | 3400 CFM -- Compliance (Brake HP method) : Passes

Fans:
FAN 2 Supply, Constant Volume, 3400 CFM, 1.0 motor nameplate hp, 1.0 design brake hp (1.0 max. BHP)

2 RTU-02 , 07 (Single Zone) :
Heating: 1 each - Central Furnace, Electric, Capacity = 55 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Single Package DX Unit, Capacity = 37 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 15.50 SEER, Required Efficiency: 13.00 SEER
Fan System: FAN SYSTEM 3 | 1200 CFM -- Compliance (Brake HP method) : Passes

Fans:
FAN 3 Supply, Constant Volume, 1200 CFM, 0.3 motor nameplate hp, 0.3 design brake hp (0.3 max. BHP)

1 RTU-03,06 (Single Zone) :
Heating: 1 each - Central Furnace, Electric, Capacity = 34 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Single Package DX Unit, Capacity = 25 kBtu/h, Air-Cooled Condenser, No Economizer,
Economizer exception: None
Proposed Efficiency = 14.00 SEER, Required Efficiency: 13.00 SEER
Fan System: FAN SYSTEM 5 | 800 CFM -- Compliance (Brake HP method) : Passes

Fans:
FAN 5 Supply, Constant Volume, 800 CFM, 0.3 motor nameplate hp, 0.3 design brake hp (0.3 max. BHP)

1 RTU-04 (Single Zone) :
Heating: 1 each - Central Furnace, Electric, Capacity = 55 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Single Package DX Unit, Capacity = 48 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 16.40 SEER, Required Efficiency: 13.00 SEER
Fan System: FAN SYSTEM 4 | 1400 CFM -- Compliance (Brake HP method) : Passes

Fans:
FAN 4 Supply, Constant Volume, 1400 CFM, 0.5 motor nameplate hp, 0.5 design brake hp (0.5 max. BHP)

2 RTU-05A, 05B (Single Zone) :
Heating: 1 each - Central Furnace, Electric, Capacity = 170 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Single Package DX Unit, Capacity = 120 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.70 EER, Required Efficiency: 11.20 EER
Fan System: FAN SYSTEM 1 | 4000 CFM -- Compliance (Brake HP method) : Passes

Fans:
FAN 1 Supply, Constant Volume, 4000 CFM, 1.2 motor nameplate hp, 1.2 design brake hp (1.2 max. BHP)

1 AHU-01 (Single Zone) :
Cooling: 1 each - Split System, Capacity = 12 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer
exception: None
Proposed Efficiency = 15.20 SEER, Required Efficiency: 13.00 SEER
Fan System: FAN SYSTEM 6 | 400 CFM -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 6 Supply, Constant Volume, 400 CFM, 1.0 motor nameplate hp

1 EWH-1:
Electric Storage Water Heater, Capacity: 50 gallons w/ Circulation Pump
Proposed Efficiency: 0.96 EF, Required Efficiency: 0.86 EF

Section 4: Requirements Checklist

Requirements Specific To: RTU-01 :

☒ 1. Equipment minimum efficiency: Single Package Unit: 11.20 EER
☒ 2. Newly purchased equipment meets the efficiency requirements
☒ 3. Hot gas bypass prohibited unless system has multiple steps of unloading or continuous capacity modulation
☒ 4. Hot gas bypass limited to 50% of total cooling capacity

Requirements Specific To: RTU-02 , 07 :

☒ 1. Equipment minimum efficiency: Single Package Unit: 13.00 SEER
☒ 2. Newly purchased equipment meets the efficiency requirements

Requirements Specific To: RTU-03,06 :

☒ 1. Equipment minimum efficiency: Single Package Unit: 13.00 SEER
☒ 2. Newly purchased equipment meets the efficiency requirements

Requirements Specific To: RTU-04 :

☒ 1. Equipment minimum efficiency: Single Package Unit: 13.00 SEER
☒ 2. Newly purchased equipment meets the efficiency requirements

Requirements Specific To: RTU-05A, 05B :

☒ 1. Equipment minimum efficiency: Single Package Unit: 11.20 EER
☒ 2. Newly purchased equipment meets the efficiency requirements
☒ 3. Hot gas bypass prohibited unless system has multiple steps of unloading or continuous capacity modulation
☒ 4. Hot gas bypass limited to 50% of total cooling capacity

Requirements Specific To: AHU-01 :

☒ 1. Equipment minimum efficiency: Split System: 13.00 SEER

Requirements Specific To: EWH-1 :

☒ 1. Water heating equipment meets minimum efficiency requirements: Electric Water Heater efficiency: 0.86 EF (267 SL, Btu/h (if > 12 kW))
☒ 2. All piping in circulating system insulated
☒ 3. Hot water storage temperature controls that allow setpoint of 90°F for non-dwelling units and 110°F for dwelling units.
☒ 4. Automatic time control of heat tapes and recirculating systems present
☒ 5. Controls will shut off operation of circulating pump between water heater/boiler and storage tanks within 5 minutes after end of heating cycle

Generic Requirements: Must be met by all systems to which the requirement is applicable:

☒ 1. Plant equipment and system capacity no greater than needed to meet loads
Exception(s):
❑ Standby equipment automatically off when primary system is operating
❑ Multiple units controlled to sequence operation as a function of load
☒ 2. Minimum one temperature control device per system

☒ 3. Minimum one humidity control device per installed humidification/dehumidification system
☒ 4. Load calculations per ASHRAE/ACCA Standard 183.
☒ 5. Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup
Exception(s):
❑ Continuously operating zones
☒ 6. Outside-air source for ventilation; system capable of reducing OSA to required minimum
☒ 7. R-5 supply and return air duct insulation in unconditioned spaces
R-8 supply and return air duct insulation outside the building
R-8 insulation between ducts and the building exterior when ducts are part of a building assembly
Exception(s):
❑ Ducts located within equipment
❑ Ducts with interior and exterior temperature difference not exceeding 15°F.
☒ 8. Mechanical fasteners and sealants used to connect ducts and air distribution equipment
☒ 9. Ducts sealed - longitudinal seams on rigid ducts; transverse seams on all ducts; UL 181A or 181B tapes and mastics
☒ 10. Hot water pipe insulation: 1.5 in. for pipes <=1.5 in. and 2 in. for pipes >1.5 in.
Chilled water/refrigerant/brine pipe insulation: 1.5 in. for pipes <=1.5 in. and 1.5 in. for pipes >1.5 in.
Steam pipe insulation: 1.5 in. for pipes <=1.5 in. and 3 in. for pipes >1.5 in.
Exception(s):
❑ Piping within HVAC equipment.
❑ Fluid temperatures between 55 and 105°F.
❑ Fluid not heated or cooled with renewable energy.
❑ Piping within room fan-coil (with AHRI440 rating) and unit ventilators (with AHRI840 rating).
❑ Runouts <4 ft in length.
☒ 11. Operation and maintenance manual provided to building owner
☒ 12. Thermostatic controls have 5°F deadband
Exception(s):
❑ Thermostats requiring manual changeover between heating and cooling
❑ Special occupancy or special applications where wide temperature ranges are not acceptable and are approved by the authority having jurisdiction.
☒ 13. Balancing devices provided in accordance with IMC 603.17
☒ 14. Demand control ventilation (DCV) present for high design occupancy areas (>40 person/1000 ft2 in spaces >500 ft2) and served by systems with any one of 1) an air-side economizer, 2) automatic modulating control of the outdoor air damper, or 3) a design outdoor airflow greater than 3000 cfm.
Exception(s):
❑ Systems with heat recovery.
❑ Multiple-zone systems without DDC of individual zones communicating with a central control panel.
❑ Systems with a design outdoor airflow less than 1200 cfm.
❑ Spaces where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 1200 cfm.
❑ 15. Motorized, automatic shutoff dampers required on exhaust and outdoor air supply openings
Exception(s):
☒ Gravity dampers acceptable in buildings <3 stories
☒ 16. Automatic controls for freeze protection systems present
☒ 17. Exhaust air heat recovery included for systems 5,000 cfm or greater with more than 70% outside air fraction or specifically exempted
Exception(s):
❑ Hazardous exhaust systems, commercial kitchen and clothes dryer exhaust systems that the International Mechanical Code prohibits the use of energy recovery systems.
❑ Systems serving spaces that are heated and not cooled to less than 60°F.
❑ Where more than 60 percent of the outdoor heating energy is provided from site-recovered or site solar energy.
❑ Heating systems in climates with less than 3600 HDD.
❑ Cooling systems in climates with a 1 percent cooling design wet-bulb temperature less than 64°F.
❑ Systems requiring dehumidification that employ energy recovery in series with the cooling coil.
❑ Laboratory fume hood exhaust systems that have either a variable air volume system capable of reducing exhaust and makeup air volume to 50 percent or less of design values or, a separate make up air supply meeting the following makeup air requirements: a) at least 75 percent of exhaust flow rate, b) heated to no more than 2°F below room setpoint temperature, c) cooled to no lower than 3°F above room setpoint temperature, d) no humidification added, e) no simultaneous heating and cooling.

Section 5: Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical alteration project has been designed to meet the 2009 IECC, Chapter 8, requirements in COM*check* Version 4.1.1.0 and to comply with the mandatory requirements in the Requirements Checklist.

HASHANI DE SILVA — Name - Title
Signature
03/04/2019 — Date

Section 6: Post Construction Compliance Statement

❑ HVAC record drawings of the actual installation, system capacities, calibration information, and performance data for each equipment provided to the owner.
❑ HVAC O&M documents for all mechanical equipment and system provided to the owner by the mechanical contractor.
❑ Written HVAC balancing and operations report provided to the owner.

The above post construction requirements have been completed.

Principal Mechanical Designer-Name
Signature
Date

PROFESSIONAL SEAL

STATE OF TEXAS
ROBERT R. RUDOLPH
106840
LICENSED
PROFESSIONAL ENGINEER

ISSUED FOR:
PERMIT/BID 03/07/2019

INTERIOR IMPROVEMENTS FOR:
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EDINBURG, TX 78539

ARCHITECT:
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JOB NUMBER PES - 19005
DRAWN BY STAFF
CHECKED BY RRR

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CONTRACTOR NOTE
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MECHANICAL COMCHECK

M8.01

ELECTRICAL SYMBOL LEGEND

NOTES:

1. ALL SYMBOLS MAY NOT APPLY.

XX	CODED PLAN NOTE	XX / XXX	DETAIL # / SHEET # — REFERENCE TAG
XX	EQUIPMENT DESIGNATION		
MDP-22	CIRCUIT DESIGNATION PANEL DESIGNATION - CIRCUIT NUMBER		
K	ELECTRIC UTILITY KEY BOX	$3 / $a	WALL SWITCH-NUMBER INDICATES 2 POLE, 3 OR 4 WAY (NO NUMBER FOR SINGLE POLE) LOWER CASE LETTER INDICATES FIXTURE(S) TO BE CONTROLLED BY SWITCH
F	FAN/LIGHT COMBINATION FIXTURE		
	EXHAUST FAN	$D	DIMMER SWITCH
J	JUNCTION BOX	$F	CEILING FAN SPEED CONTROL SWITCH
	NON-FUSED DISCONNECT SWITCH	$K	KEY-OPERATED SWITCH
	FUSED DISCONNECT SWITCH	$M	MOTOR RATED DISCONNECT SWITCH
	MOTOR	$OS	OCCUPANCY SENSOR WALL SWITCH GREENGATE #ONW-D-1001-MV OR EQUAL
	PUSH BUTTON	$OR	OVERRIDE SWITCH
B	BUZZER/BELL	$PL	SWITCH WITH PILOT LIGHT
LVT	LOW VOLTAGE TRANSFORMER	$T	TIMER SWITCH GREENGATE #TSW-MV OR EQUAL
	SINGLE RECEPTACLE 20A, 120V	OS	WALL MOUNT OCCUPANCY SENSOR GREENGATE #OAWC-DT-120W OR EQUAL
	SPECIAL RECEPTACLE	OS	CEILING MOUNT OCCUPANCY SENSOR GREENGATE #OAC-DT-2000-R OR EQUAL
	DUPLEX RECEPTACLE 20A, 120V	SP	SWITCH PACK FOR OCCUPANCY SENSOR
	QUADRUPLEX RECEPTACLE 20A, 120V	PC	PHOTOCELL
	GFCI DUPLEX RECEPTACLE 20A, 120V	TC	TIMECLOCK
	GFCI QUADRUPLEX RECEPTACLE 20A, 120V	#A	CURRENT LIMITING DEVICE - NUMBER INDICATES MAX AMPERAGE OF DEVICE
	IG DUPLEX RECEPTACLE 20A, 120V	PP	POWER POLE
	IG QUADRUPLEX RECEPTACLE 20A, 120V	W	¾" CONDUIT STUB AND BOX FOR WALL PHONE WIRING BY OTHERS
	SPLIT WIRED DUPLEX RECEPTACLE 20A, 120V		¾" CONDUIT STUB AND BOX FOR PHONE WIRING BY OTHERS
	SPLIT WIRED QUADRUPLEX RECEPTACLE 20A, 120V		¾" CONDUIT STUB AND BOX FOR DATA WIRING BY OTHERS
TL	TWISTLOCK RECEPTACLE		¾" CONDUIT STUB AND BOX FOR DATA/PHONE WIRING BY OTHERS
	FLUSH MTD AS INDICATED BY BOX AROUND DEVICE, FLR=FLOOR, CLG=CEILING	TV	TELEVISION OUTLET
	SURFACE MOUNT PANELBOARD/LOADCENTER	WA	WIRELESS ACCESS
	FLUSH MOUNT PANELBOARD/LOADCENTER	MB	MEDIA BOX DEMARC LOCATION
M	UTILITY SERVICE METER	OP	OVERHEAD PROJECTOR
	PLUGMOLD - SEE PLAN VIEW FOR SPECIFIC LENGTHS	UPS	UNINTERRUPTIBLE POWER SUPPLY
ANNC	GENERATOR ANNUNCIATOR		

ELECTRICAL NOTATIONS

AC	ABOVE COUNTER	LV	LOW VOLTAGE
AFF	ABOVE FINISHED FLOOR	MBJ	MAIN BONDING JUMPER
AFG	ABOVE FINISHED GRADE	MC	MECHANICAL CONTRACTOR
BPS	BOLTED PRESSURE SWITCH	MTD	MOUNTED
CLG	CEILING MOUNTED	NTS	NOT TO SCALE
CKT	CIRCUIT	(PART)	INDICATES CIRCUIT USED ELSEWHERE
EC	ELECTRICAL CONTRACTOR	PC	PLUMBING CONTRACTOR
EM	EMERGENCY	SSBJ	SUPPLY-SIDE BONDING JUMPER
ETR	EXISTING TO REMAIN	SUC	SITE UTILITY CONTRACTOR
FLR	FLOOR MOUNTED	TYP	TYPICAL
FSC	FIRE SUPPRESSION CONTRACTOR	UG	UNDERGROUND
GC	GENERAL CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHERPROOF
GFEP	GROUND FAULT EQUIPMENT PROTECTION	WG	WIRE GUARD
GND	GROUND	WR	WEATHER RESISTANT
HC	HVAC CONTRACTOR	XX"	DIMENSIONED HEIGHT
IG	ISOLATED GROUND		

SPECIAL SYSTEMS SYMBOL LEGEND

NOTES:

1. ALL SYMBOLS MAY NOT APPLY.

FACP	FIRE ALARM CONTROL PANEL	NAC #	NOTIFICATION CIRCUIT POWER BOOSTER PANEL # = UNIT NUMBER
FAA	FIRE ALARM ANNUNCIATOR	BATT	BATTERY CABINET
EVAC	VOICE EVACUATION CONTROL UNIT	ARCM	AREA OF REFUGE EM COMMUNICATION SYSTEM - MASTER UNIT
MIC	REMOTE VOICE EVACUATION MICROPHONE	ARCR	AREA OF REFUGE EM COMMUNICATION SYSTEM - REMOTE UNIT
F	MANUAL PULL STATION	CO	CARBON MONOXIDE DETECTOR
	SMOKE DETECTOR	SA	SMOKE ALARM WITH SOUNDER BASE
P	SMOKE DETECTOR P = PHOTOELECTRIC	BT	SMOKE DETECTOR BT = BEAM TRANSMITTER
I	SMOKE DETECTOR I = IONIZATION	BR	SMOKE DETECTOR BR = BEAM RECEIVER
	SMOKE DETECTOR IN DUCT	RTS	REMOTE TEST STATION
	HEAT DETECTOR	V	VIBRATING BELL
H	HORN		HORN STROBE COMBINATION
	WALL MOUNT STROBE		CEILING MOUNT STROBE
H	CEILING MOUNT HORN		CEILING MOUNT HORN STROBE COMBINATION
WF	WATER FLOW SWITCH	DH	DOOR HOLDER
VS	VALVE SUPERVISORY SWITCH	DCL	DOOR CLOSER
PS	PRESSURE SWITCH	AIM	ADDRESSABLE INPUT MODULE
FD	FIRE DEPARTMENT KEY BOX		
ICM	MASTER INTERCOM	IC	REMOTE INTERCOM
SCP	SECURITY CONTROL PANEL	KP	KEYPAD
CR	CARD READER	PB	PANIC BUTTON
ML	MAGNETIC DOOR LOCK	M	MOTION SENSOR
WG	WANDER GUARD	ES	ELECTRIC STRIKE
DC	DOOR CONTACT SENSOR	DE	DELAYED-EGRESS LOCK
	CEILING MTD CAMERA	PTZ	PAN-TILT-ZOOM WALL MTD CAMERA
CHE	CCTV HEAD-END		WALL MTD CAMERA
AMP	SOUND SYSTEM AMPLIFIER	V	SPEAKER VOLUME CONTROL
S	SPEAKER	M	MICROPHONE
NCP	NURSE CALL SYSTEM CONTROL PANEL	E	NURSE CALL EMERGENCY PULL STATION
	NURSE CALL SYSTEM CORRIDOR LIGHT MOUNTED OVER DOOR	N	NURSE CALL DUTY STATION WITH VOICE
B	NURSE CALL BED DEVICE WITH VOICE	R	NURSE CALL RESIDENT CHECK-IN DEVICE
C	NURSE CALL CANCEL PUSHBUTTON	S	NURSE CALL STAFF STATION DEVICE WITH VOICE

ELECTRICAL LINETYPE LEGEND

- GENERAL DEMO
- GENERAL EXISTING
- SWITCH LEG
- UGE — UNDERGROUND ELECTRIC
- (AB)UGE — UNDERGROUND ELECTRIC (ABANDONED)
- (D)UGE — UNDERGROUND ELECTRIC (DEMO)
- (E)UGE — UNDERGROUND ELECTRIC (EXISTING)
- LV — LOW VOLTAGE
- (AB)LV — LOW VOLTAGE (ABANDONED)
- (D)LV — LOW VOLTAGE (DEMO)
- (E)LV — LOW VOLTAGE (EXISTING)
- UGLV — UNDERGROUND LOW VOLTAGE
- (AB)UGLV — UNDERGROUND LOW VOLTAGE (ABANDONED)
- (D)UGLV — UNDERGROUND LOW VOLTAGE (DEMO)
- (E)UGLV — UNDERGROUND LOW VOLTAGE (EXISTING)

MAIN ELECTRICAL GENERAL NOTES:

A. ALL ELECTRICAL INSTALLATIONS MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES. ELECTRICAL SERVICE TO BE INSTALLED IN COMPLIANCE WITH NEC ARTICLE 230.

B. CONTRACTOR SHALL OBTAIN FAULT CURRENT INFORMATION FROM UTILITY COMPANY AND PERFORM SHORT CIRCUIT CALCULATIONS. SIZE FUSES AND EQUIPMENT A.I.C. RATINGS ACCORDINGLY.

C. CONTRACTOR SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR SIZED PER NEC TABLE 250.122 FOR ALL BRANCH CIRCUITS INSTALLED IN NON-METALLIC CONDUITS. METALLIC CONDUITS MAY BE USED AS EQUIPMENT GROUNDING CONDUCTORS PER NEC.

D. CONTRACTOR SHALL VERIFY ALL WIRE SIZING DUE TO VOLTAGE DROP CAUSED BY IN-FIELD ROUTING / INSTALLATION DISTANCES.

E. SERVICE ENTRANCE EQUIPMENT SHALL BE GROUNDED WITH A SEPARATE COPPER OR ALUMINUM CONDUCTOR AS INDICATED ON THE DRAWINGS AND PER ARTICLE 250.52(A) OF THE NATIONAL ELECTRICAL CODE. GROUNDING CONDUCTOR SHALL ALSO BE CONNECTED TO A 5/8" DIAMETER X 8'-0" LONG GROUND ROD FOR SUPPLEMENTAL GROUNDING PER NATIONAL ELECTRICAL CODE ARTICLE 250.54.

F. CONTRACTOR IS RESPONSIBLE FOR LABELING ALL PANELS, DISCONNECTS, LIGHTING CONTROLLERS, ETC., AND ALL CIRCUIT BREAKERS IN THE DISTRIBUTION PANELS PRIOR TO PROJECT COMPLETION. PROVIDE A TYPED DIRECTORY OF ALL CIRCUITS. BREAKERS USED FOR SWITCHING SHALL BE RATED ACCORDINGLY.

G. CONTRACTOR SHALL SUPPLY AND INSTALL ALL N.E.C. REQUIRED EQUIPMENT DISCONNECTS (NOT ALL DISCONNECTS MAY BE SHOWN ON THE DRAWINGS). CONTRACTOR SHALL VERIFY ALL DISCONNECT SIZING WITH EACH EQUIPMENT NAMEPLATE RATING.

H. CONTRACTOR IS RESPONSIBLE TO SECURE AND PAY FOR ALL PERMITS. CONTRACTOR SHALL COMPLY WITH ALL STATE, LOCAL, AND NATIONAL CODES (E.G., NATIONAL ELECTRICAL CODE). CONTRACTOR SHALL SCHEDULE INSPECTIONS SO JOB PROGRESS IS NOT DELAYED.

I. CONTRACTOR SHALL SUPPLY AND INSTALL ALL EQUIPMENT IN NEW CONDITION AND U.L. LISTED UNLESS NOTED OTHERWISE.

J. CONTRACTOR SHALL MAKE ARRANGEMENTS WITH LOCAL POWER COMPANY FOR THE INSTALLATION OF NEW ELECTRICAL SERVICE AND METER. INSTALL NEW SERVICE DISTRIBUTION EQUIPMENT AS SPECIFIED ON ELECTRICAL DRAWINGS.

K. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES AND ARCHITECTURAL DRAWINGS TO ELIMINATE CONFLICTS.

L. PRIOR TO CONSTRUCTION START, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND OPERATION MANUALS FOR ALL EQUIPMENT AND ACCESSORIES FOR OWNER APPROVAL.

M. CONTRACTOR SHALL PERFORM ALL WORK IN A NEAT AND PROFESSIONAL MANNER.

N. PROVIDE FLEXIBLE CONDUIT FOR ALL VIBRATING EQUIPMENT. PROVIDE FLEXIBLE CONDUIT FOR LIGHT FIXTURE CONNECTIONS.

O. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ELECTRICAL EQUIPMENT INFORMATION WITH MANUFACTURERS. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL ELECTRICAL CONNECTIONS OR SERVICES TO EQUIPMENT WHICH ARE NOT SHOWN ON DRAWINGS.

P. ALL PENETRATIONS OF WALL, ROOF, AND CEILINGS TO BE SEALED AS REQUIRED WITH U.L. APPROVED FIRE SEALANT TO MAINTAIN FIRE RATING AS REQUIRED. ALL ROOF PENETRATIONS, IF APPLICABLE, ARE TO BE COORDINATED WITH THE OWNER'S DESIGNATED ROOFING CONTRACTOR.

Q. ELECTRICAL EQUIPMENT EXPOSED TO WEATHER CONDITIONS SHALL BE WEATHERPROOF TYPE. CONDUIT EXPOSED TO WEATHER CONDITIONS OR IN CONTACT WITH CONCRETE SHALL BE POLYVINYL CHLORIDE (PVC) OR GALVANIZED HEAVY WALL STEEL (GRC).

R. ALL EXTERIOR RECEPTACLES SHALL BE WEATHER RESISTANT AS WELL AS WEATHERPROOF PER NEC 406.9.

S. CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS TO THE OWNER IF INSTALLATION VARIES FROM THE CONTRACT DRAWINGS.

T. ANY CONDUIT AND WIRE SIZES SHOWN ARE MINIMUMS. CONTRACTOR SHALL INCREASE SIZES (DUE TO VOLTAGE DROP, QUANTITY OF CURRENT CARRYING CONDUCTORS IN THE SAME CONDUIT/RACEWAY, ETC.) AS REQUIRED BY THE N.E.C.

U. IG DEVICES (IF APPLICABLE): CONTRACTOR SHALL INSTALL AN ADDITIONAL CONDUCTOR FOR ISOLATED GROUND CIRCUITS TO SUPPLY CONDUCTORS FOR ISOLATED GROUNDING PURPOSES. SAID GROUNDING CONDUCTOR SHALL BE COVERED WITH A CONTINUOUS OUTER FINISH THAT IS GREEN WITH ONE OR MORE YELLOW STRIPES. THE GROUNDING CONDUCTORS SHALL BE BONDED TO FRAME OF DEVICE AND RUN IN CONDUIT BACK TO 'CENTRAL' GROUNDING BLOCK(S) AT SERVICE DISTRIBUTION EQUIPMENT.

V. ROOFTOP EQUIPMENT (IF APPLICABLE): CONTRACTOR SHALL INSTALL A WEATHERPROOF DISCONNECT FOR EACH UNIT. CONDUITS SHALL ENTER THE UNDERSIDE OF EACH HVAC UNIT FROM WITHIN THE CURBED AREA FOR THAT UNIT (THEREBY AVOIDING PENETRATIONS THROUGH THE ROOF MEMBRANE). IF J-BOX IS USED FOR SUPPLYING POWER TO MULTIPLE UNITS, THE J-BOX MUST BE LOCATED WITHIN 25 FEET OF EACH UNIT'S DISCONNECT PER THE NE.C. ARTICLE 240.21(B)(2). CONTRACTOR SHALL SUPPLY AND INSTALL A 120 VAC WEATHERPROOF GFCI RECEPTACLE WITHIN 25' OF EACH UNIT.

W. ALL CONTRACTORS, PRIOR TO BID SUBMISSION PROCESS, SHALL VISIT PROPOSED WORK SITE AND FIELD VERIFY ALL EXISTING CONDITIONS. ANY CONDITIONS THAT DIFFER FROM THAT SHOWN ON THIS PLAN SHALL BE REPORTED TO THE ARCHITECT/ENGINEER SO THAT NEW AND REVISED BID DRAWINGS OR INFORMATION MAY BE ISSUED. MODIFICATIONS TO SCOPE OF WORK WHICH RESULT FROM CONTRACTORS NEGLECT TO VISIT THE SITE PRIOR TO BID SUBMISSION SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY.

X. 4X4 ELECTRICAL BOX AS TYPICAL FOR ALL LOCATIONS WITH QUAD RECEPTACLE AND SINGLE RECEPTACLE WITH DATA. IN LOCATIONS WHERE DATA IS PRESENT, 4X4 ELECTRICAL BOX MUST HAVE PARTITION TO KEEP POWER AND DATA WIRING SEPARATE.

ELECTRICAL SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
E0.01	ELECTRICAL COVER SHEET
E1.01	ELECTRICAL LIGHTING PLAN
E2.01	ELECTRICAL POWER PLAN
E2.02	ELECTRICAL POWER PLAN
E2.03	DATA PLAN
E2.04	DATA PLAN
E5.01	ELECTRICAL DETAILS
E5.02	ELECTRICAL DETAILS
E6.01	ELECTRICAL SCHEDULES AND RISER DIAGRAM
E8.01	ENERGY CODE COMPLIANCE

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CONTRACTOR NOTE

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ELECTRICAL COVER SHEET

E0.01

LIGHTING CONTROL PANEL - CONTROL SCHEDULE

LCP-1	THIS LIGHTING CONTROL PANEL SHALL BE GREENGATE	LITEKEEPER LK 8	(OR EQUAL)
	PROVIDE WITH	8	RELAYS
CIRCUIT TAG	DESCRIPTION OF CIRCUIT / AREAS OR ROOMS THAT ARE INCLUDED	VOLTAGE	CONTROLLED VIA
P1-3	STORE SIGNAGE	120	LIGHTING CONTROL PANEL / PHOTOCELL
P1-41	PLHEB WARD DEC LTG	120	LIGHTING CONTROL PANEL
P1-49	ENTRY LIGHTING	120	LIGHTING CONTROL PANEL
P1-50	PHLEB WARD LTG	120	LIGHTING CONTROL PANEL
P1-52	PHLEB WARD LTG	120	LIGHTING CONTROL PANEL
	SPARE	120	LIGHTING CONTROL PANEL
	SPARE		
	SPARE		

NOTES: PROVIDE LIGHTING CONTROL PANELS AS LISTED ABOVE (OR EQUAL). PROVIDE WITH THE NUMBER OF RELAYS INDICATED ABOVE.
COORDINATE WITH OWNER FOR ADDITIONAL CIRCUITS TO BE CONTROLLED.
PROVIDE SYSTEM START-UP, PROGRAMMING AND TRAINING FOR THE OWNER.

ALL OTHER LIGHTING CIRCUITRY - CONTROL SCHEDULE

CIRCUIT TAG	DESCRIPTION OF CIRCUIT / AREAS OR ROOMS THAT ARE INCLUDED	VOLTAGE	CONTROLLED VIA
P1-51	OFFICE LIGHTING	120	OCCUPANCY SENSORS
P1-53	BACK HOUSE LIGHTING	120	OCCUPANCY SENSORS
P1-55	BACK HOUSE LIGHTING	120	OCCUPANCY SENSORS
P1-57	OFFICE LIGHTING	120	OCCUPANCY SENSORS

LUMINAIRE SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	VOLTS	LAMPS	INPUT WATTS	MOUNTING	LUMENS	DESCRIPTION
EXIT / EMERGENCY EGRESS FIXTURES								
EE	SURE LITES	LPX7SD	UNV	INCLUDED	1	UNIVERSAL	N/A	EXIT SIGN - WITH BATTERY BACK-UP
EX	SURE LITES	APXH7	UNV	INCLUDED	5	UNIVERSAL	N/A	EXIT SIGN - WITH BATTERY BACK-UP AND REMOTE CAPABILITY
ER	SURE LITES	SRP25DWH	9.6	INCLUDED	0	UNIVERSAL	N/A	(2) HEAD REMOTE EXTERIOR EMERGENCY EGRESS
EM	SURE LITES	SEL25SD	UNV	INCLUDED	3	UNIVERSAL	N/A	(2) HEAD EMERGENCY EGRESS - WITH BATTERY BACK-UP AND REMOTE CAPABILITY
COMMON SPACE FIXTURES								
A	SORAA	BL24-57-935-UNV-DM1	UNV	LED	87	RECESSED	5700	2' X 4' RECESSED LED FIXTURE
AE	SORAA	BL24-57-935-UNV-DM1-EM14	UNV	LED	87	RECESSED	5700	2' X 4' RECESSED LED FIXTURE, WITH EMERGENCY BATTERY BALLAST
A2	SORAA	BL22-35-935-UNV-DM1	UNV	LED	39	RECESSED	3500	2' X 2' RECESSED DIRECT/INDIRECT LED FIXTURE
A2E	SORRA	BL22-35-935-UNV-DM1-EM14	UNV	LED	39	RECESSED	3500	2' X 2' RECESSED FIXTURE, WITH EMERGENCY BATTERY BALLAST
A3	EATON	CV-LEL-G-120-2C	UNV	LED	39	RECESSED	N/A	2' X 2' RECESSED IMAGE FIXTURE, IMAGE TO BE DETERMINED COORDINATE WITH ARCHITECT
C1	PORTFOLIO	LD6B-15-D010-EU6B-1020-80-35-6LB-M1LI-HB26	UNV	LED	16	RECESSED	1500	6" DIA. LED DOWNLIGHT WITH DT-6-DISC FROSTED DISC TRIM RING
C2	PORTFOLIO	LD6B-15-D010-EU6B-1020-80-35	UNV	LED	16	RECESSED	1500	6" DIA. LED DOWNLIGHT
C2E	PORTFOLIO	LD6B-15-D010-EMBOD-EU6B-1020-80-35	UNV	LED	16	RECESSED	1500	6" DIA. LED DOWNLIGHT WITH EMERGENCY BATTERY PACK
C4	HALO	H2-HALO-AH-4-SML-AMBERWEB	12	T4	50	PENDANT	465	PENDANT LIGHT ABOVE FRONT RECEPTION, EC TO PROVIDE LOW VOLTAGE TRANSFORMER AND ALL ASSOCIATED EQUIPMENT
K1	HALO-EATON	HU10-24-D-9-30-P-HU10MS	120	LED	11	SURFACE	615	24" UNDERCABINET LIGHT W/ FIXTURE MOUNTED SWITCH
W1	OXYGEN	3-511-14	120	LED	12	WALL MOUNT	690	BATHROOM WALL SCONCE

ALL FIXTURES MAY NOT APPLY
EC SHALL CONFIRM MOUNTING HEIGHTS OF ALL FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
EC SHALL COORDINATE DIMENSIONED LOCATIONS OF ALL FIXTURES WITH ARCHITECTS DRAWINGS PRIOR TO ROUGH-IN.
EC SHALL PROVIDE ALL NECESSARY HARDWARE/INSTALLATION TO MAINTAIN THE INTEGRITY OF FIRE RATED ASSEMBLIES IN WHICH FIXTURES ARE INSTALLED.
B.O.F. = BOTTOM OF FIXTURE



LIGHTING FLOOR PLAN | 1
1/8" = 1'-0" | E1.01

NORTH

GENERAL NOTES:

A. ALL WORK SHALL MEET OR EXCEED ALL NEC STANDARDS.

B. SEE MAIN ELECTRICAL GENERAL NOTES FOR MORE INFORMATION.

C. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO ROUGH-IN.

D. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL FIXTURES AND DEVICES PRIOR TO ROUGH-IN.

E. ALL EXIT/EMERGENCY LIGHTING SHALL BE PROVIDED WITH AN UNSWITCHED CONDUCTOR ON THE INDICATED CIRCUIT.

F. ALL FIXTURES SHOWN HALF SHADED ARE USED FOR EMERGENCY EGRESS LIGHTING AND COME EQUIPPED WITH AN EMERGENCY BATTERY FOR BACK-UP POWER.

G. ALL FIXTURES SHOWN WITH A "NL" TAG SHALL BE CONSIDERED A NIGHT LIGHT AND BE CONNECTED AHEAD OF ALL CONTROLS.

H. VERIFY THE COLOR OF ALL FIXTURES, DEVICES, AND COVER PLATES WITH OWNER.

I. FOR ALL OCCUPANCY SENSORS, PROVIDE SWITCHPACK AND ALL OTHER REQUIRED HARDWARE WHERE NECESSARY. COORDINATE ALL SETTINGS WITH OWNER PRIOR TO ROUGH-IN.

J. PROVIDE PHOTOCELL CONTROL THROUGH THE LIGHTING CONTROL PANEL FOR SIGNAGE. COORDINATE ALL SETTINGS WITH OWNER.

K. PROVIDE LIGHTING CONTROL PANEL(S) TO CONTROL ALL LIGHTING AND TENANT SIGNAGE. SEE CONTROLS SCHEDULE ON THIS SHEET FOR MORE INFORMATION.

L. COORDINATE EXACT LOCATION OF SWITCH FOR ALL UNDERCABINET LIGHTING WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

PLAN NOTES:

1. PROVIDE OVERRIDE TIMER SWITCH FOR AFTER HOURS LIGHTING CONTROL.
2. PROVIDE LOW VOLTAGE SWITCHES CONNECTED THAT CONTROL INPUTS TO THE LCP.
3. PROVIDE DUAL LEVEL OCCUPANCY SWITCH. FIRST LEVEL TO BE ON VIA OCCUPANCY SENSOR AND OFF VIA OCCUPANCY SENSOR. SECOND LEVEL TO BE ON VIA PUSH BUTTON AND OFF VIA OCCUPANCY SENSOR. NUMBER NEXT TO LIGHT FIXTURE REPRESENTS CONTROL LEVEL.

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ROBERT R. RUDOLPH
106840
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ELECTRICAL LIGHTING PLAN

E1.01

GENERAL NOTES:

A. ALL WORK SHALL MEET OR EXCEED ALL NEC STANDARDS.

B. SEE MAIN ELECTRICAL GENERAL NOTES FOR MORE INFORMATION.

C. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO ROUGH-IN.

D. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL FIXTURES AND DEVICES PRIOR TO ROUGH-IN.

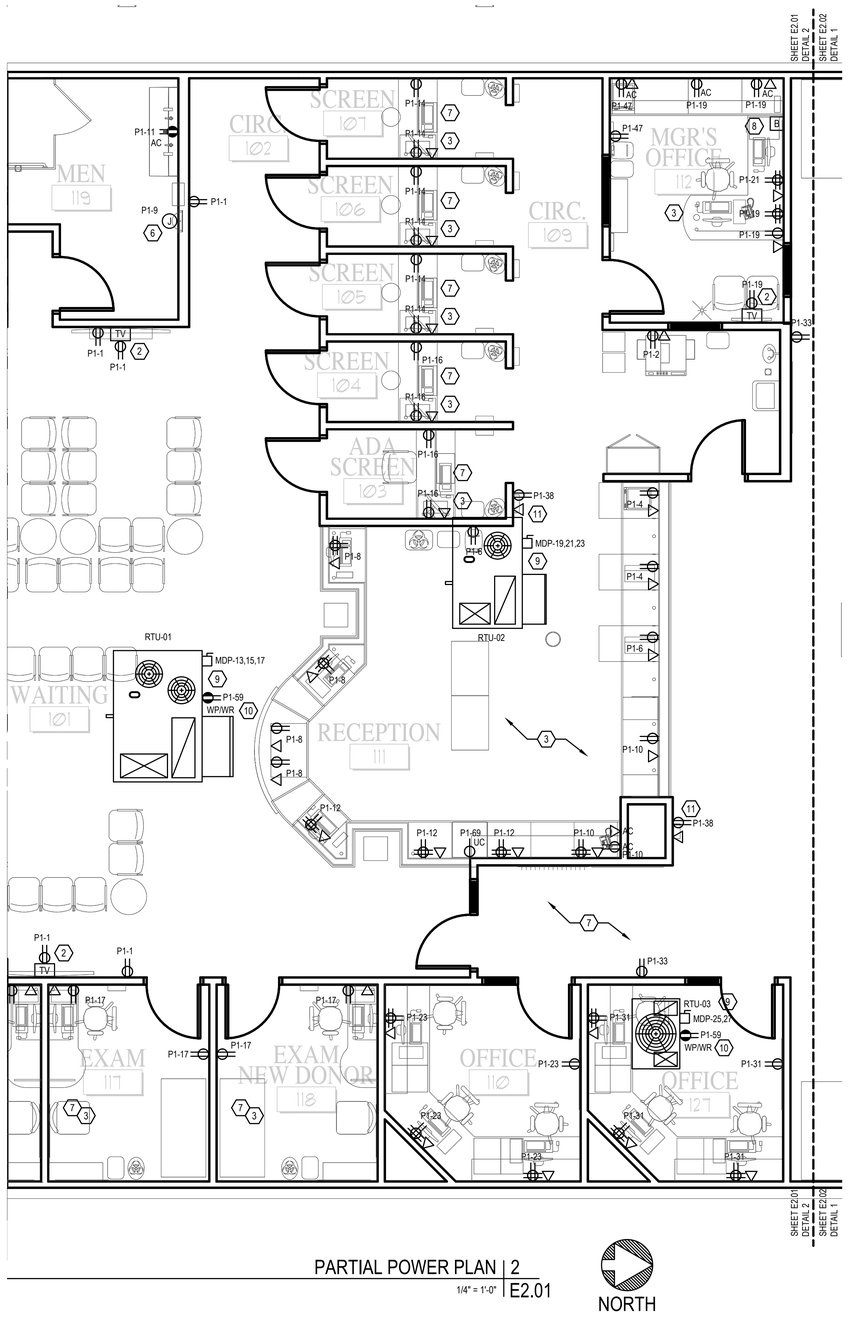
E. VERIFY THE COLOR OF ALL FIXTURES, DEVICES, AND COVER PLATES WITH OWNER.

F. ALL DEVICES MARKED "AC" SHALL BE MOUNTED @ +42" AFF UNLESS SPECIFICALLY NOTED OTHERWISE.

G. SEE SHEET E2.03 FOR QUANTITY OF CAT-6 / HDMI OUTLETS REQUIRED FOR EACH DATA SYMBOL SHOWN.

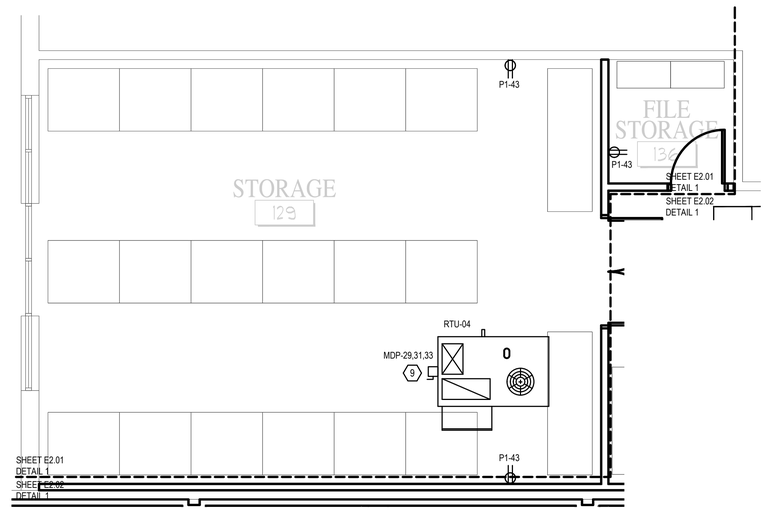
PLAN NOTES:

1. JUNCTION BOX FOR SIGNAGE SHALL BE MOUNTED ABOVE CEILING INSIDE BUILDING. COORDINATE EXACT LOCATION WITH ARCHITECT AND SIGNAGE SUPPLIER PRIOR TO ROUGH-IN.
2. COORDINATE LOCATION OF TV AND RECEPTACLE BOX LOCATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
3. REFER TO ARCHITECTURAL PLANS FOR CASE WORK DRAWINGS PRIOR TO ROUGH-IN.
4. RECEPTACLE FOR EWC SHALL BE INSTALLED BEHIND EWC OR IN ANOTHER MANNER IN WHICH IT IS CONCEALED. PROVIDE GFCI TYPE CIRCUIT BREAKER FOR THIS CIRCUIT.
5. PROVIDE ELECTRICAL CONNECTION AND SAFETY SWITCH TO EXHAUST FAN. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER'S NAMEPLATE AND COORDINATE EXACT LOCATION AND TYPE OF CONTROLS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
6. PROVIDE A JUNCTION BOX FOR HAND DRYER AT THIS APPROXIMATE LOCATION. VERIFY LOCATION WITH OWNER / ARCHITECT.
7. THE PHLEBOTOMY WARD, SCREENING ROOMS AND EXAM AREAS ARE CONSIDERED PATIENT CARE AREAS. PROVIDE MEDICAL GRADE OUTLETS AND WIRING. INSTALLATION TO COMPLY WITH NEC 517.13.
8. MOUNT BUZZER ON WALL IN CENTER MANAGER'S OFFICE AND PROCESSING AREA. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
9. PROVIDE ELECTRICAL CONNECTION AND SAFETY SWITCH TO MECHANICAL EQUIPMENT. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER'S NAMEPLATE AND COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
10. PROVIDE A "WHILE-IN-USE" WEATHER-PROOF COVER FOR WEATHERPROOF RECEPTACLE.
11. FOR EMPLOYEE TIMECLOCK. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.



PARTIAL POWER PLAN | 2
1/4" = 1'-0" | E2.01

NORTH



PARTIAL POWER PLAN | 1
1/4" = 1'-0" | E2.01

NORTH

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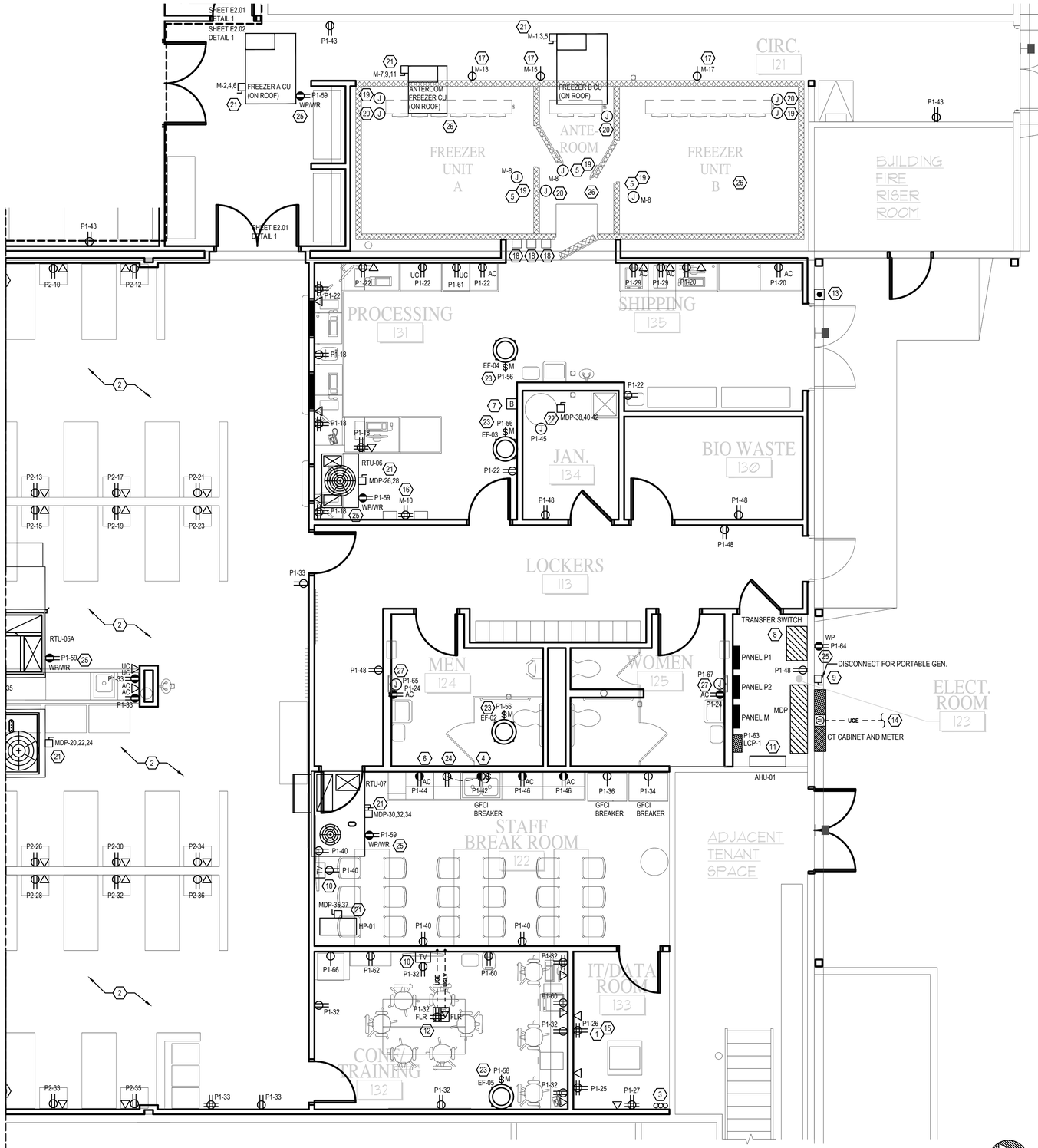
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ELECTRICAL POWER PLAN

E2.01



PARTIAL POWER PLAN | 1

1/4" = 1'-0" | E2.02

NORTH

GENERAL NOTES:

A. ALL WORK SHALL MEET OR EXCEED ALL NEC STANDARDS.

B. SEE MAIN ELECTRICAL GENERAL NOTES FOR MORE INFORMATION.

C. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO ROUGH-IN.

D. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL FIXTURES AND DEVICES PRIOR TO ROUGH-IN.

E. VERIFY THE COLOR OF ALL FIXTURES, DEVICES, AND COVER PLATES WITH OWNER.

F. ALL DEVICES MARKED "AC" SHALL BE MOUNTED @ +42" AFF UNLESS SPECIFICALLY NOTED OTHERWISE.

G. SEE SHEET E2.04 FOR QUANTITY OF CAT-6 / HDMI OUTLETS REQUIRED FOR EACH DATA SYMBOL SHOWN.

PLAN NOTES:

1. NETWORK EQUIPMENT RACK AND PATCH PANEL BY TENANT.
2. THE PHLEBOTOMY WARD, SCREENING ROOMS AND EXAM AREAS ARE CONSIDERED PATIENT CARE AREAS. PROVIDE MEDICAL GRADE OUTLETS AND WIRING. INSTALLATION TO COMPLY WITH NEC 517.13.
3. PROVIDE (3) 4" CONDUITS TO TELEPHONE DEMARCATION POINT IN IT ROOM FED FROM BUILDING DEMARCATION POINT. FIELD VERIFY LOCATION.
4. PROVIDE SIMPLEX RECEPTACLE LOCATED BELOW SINK FOR CONNECTION OF GARBAGE DISPOSAL. THIS RECEPTACLE SHALL BE CONTROLLED VIA WALL SWITCH LOCATED ADJACENT TO SINK. PROVIDE A GFCI BREAKER FOR THIS CIRCUIT.
5. PROVIDE CONNECTIONS TO FREEZER LIGHTING FIXTURES, SWITCHES, DOOR HEATERS, AND PRESSURE VENT HEATERS PER MANUFACTURERS SPECIFICATIONS.
6. COORDINATE EXACT LOCATION AND HEIGHT OF MICROWAVE RECEPTACLE WITH MILLWORK PRIOR TO ROUGH-IN.
7. MOUNT BUZZER ON WALL IN SUPERVISORS OFFICE AND PROCESSING AREA. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
8. MANUAL TRANSFER SWITCH.
9. FUSED SWITCH FOR PORTABLE GENERATOR - REFER TO ELECTRICAL RISER DIAGRAM.
10. COORDINATE LOCATION OF TV AND RECEPTACLE BOX LOCATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
11. PROVIDE INTERCONNECTION BETWEEN INDOOR AND OUTDOOR HVAC EQUIPMENT. VERIFY LOCATION AND ALL REQUIREMENTS OF EQUIPMENT PRIOR TO ROUGH-IN.
12. PROVIDE FLOOR BOX WITH 1" CONDUIT AND PULL STRING TO JUNCTION BOX BEHIND TV IN CONFERENCE ROOM. COORDINATE RACEWAY DIAMETER WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
13. PROVIDE WEATHER PROOF PUSH BUTTON SWITCH TO ACTIVATE BUZZERS IN SUPERVISORS OFFICE AND PROCESSING AREA. LINE VOLTAGE SHALL BE INSTALLED IN CONDUIT.
14. BURY CONDUITS PER IEC 300.5 REQUIREMENTS. EXTEND TO UTILITY TRANSFORMER. FIELD VERIFY EXACT ROUTING.
15. MOUNT RECEPTACLE AND CABLE OUTLET AT 60" AFF FOR SECURITY MONITOR.
16. CHART RECORDER MONITORING EQUIPMENT. COORDIANTE EXACT LOCATION WITH OWNER AND GC PRIOR TO ROUGH-IN. PROVIDE RECEPTACLES AND CONNECTIONS TO PER DETAIL 4/E5.02.
17. RECEPTACLE FOR HEAT TRACE. PROVIDE A 30 mA GROUND FAULT CIRCUIT BREAKER (GFEPD). COORDIANTE EXACT LOCATION WITH OWNER AND GC PRIOR TO ROUGH-IN.
18. REMOTE TEMPERATURE CONTROLLER. COORDIANTE EXACT LOCATION WITH OWNER AND GC PRIOR TO ROUGH-IN.
19. PROVIDE 4-11/16" JUNCTION BOX ABOVE FREEZER AND 3/4" CONDUIT WITH SEAL-OFF INTO FREEZER FOR LINE VOLTAGE WIRING.
20. PROVIDE 4-11/16" JUNCTION BOX ABOVE FREEZER AND 3/4" CONDUIT WITH SEAL-OFF INTO FREEZER FOR LOW VOLTAGE WIRING.
21. PROVIDE ELECTRICAL CONNECTION AND SAFETY SWITCH TO MECHANICAL EQUIPMENT. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER'S NAMEPLATE AND COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
22. J-BOX FOR FINAL CONNECTION TO RECIRC PUMP. MOUNT MOTOR STARTER AT +60"AFF.
23. PROVIDE ELECTRICAL CONNECTION AND SAFETY SWITCH TO EXHAUST FAN. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER'S NAMEPLATE AND COORDINATE EXACT LOCATION AND TYPE OF CONTROLS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
24. PROVIDE CONNECTION FOR UNDERCABINET DISHWASHER PER MANUFACTURERS REQUIREMENTS.
25. PROVIDE A "WHILE-IN-USE" WEATHER-PROOF COVER FOR WEATHERPROOF RECEPTACLE.
26. REFERENCE FREEZER ELECTRICAL INSTALLATION DETAILS 1,2,4 ON SHEET E5.02.
27. PROVIDE A JUNCTION BOX FOR HAND DRYER AT THIS APPROXIMATE LOCATION. VERIFY LOCATION WITH OWNER / ARCHITECT.

PROFESSIONAL SEAL

STATE OF TEXAS · ROBERT R. RUDOLPH · 106840 · LICENSED PROFESSIONAL ENGINEER

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

GCAM Plasma

419 E. UNIVERSITY DRIVE
EDINBURG, TX 78539

ARCHITECT:

CASLER DESIGN GROUP, INC.
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F-10841
EXP: 11/30/19

JOB NUMBER	PES - 19005
DRAWN BY	STAFF
CHECKED BY	RRR

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CONTRACTOR NOTE

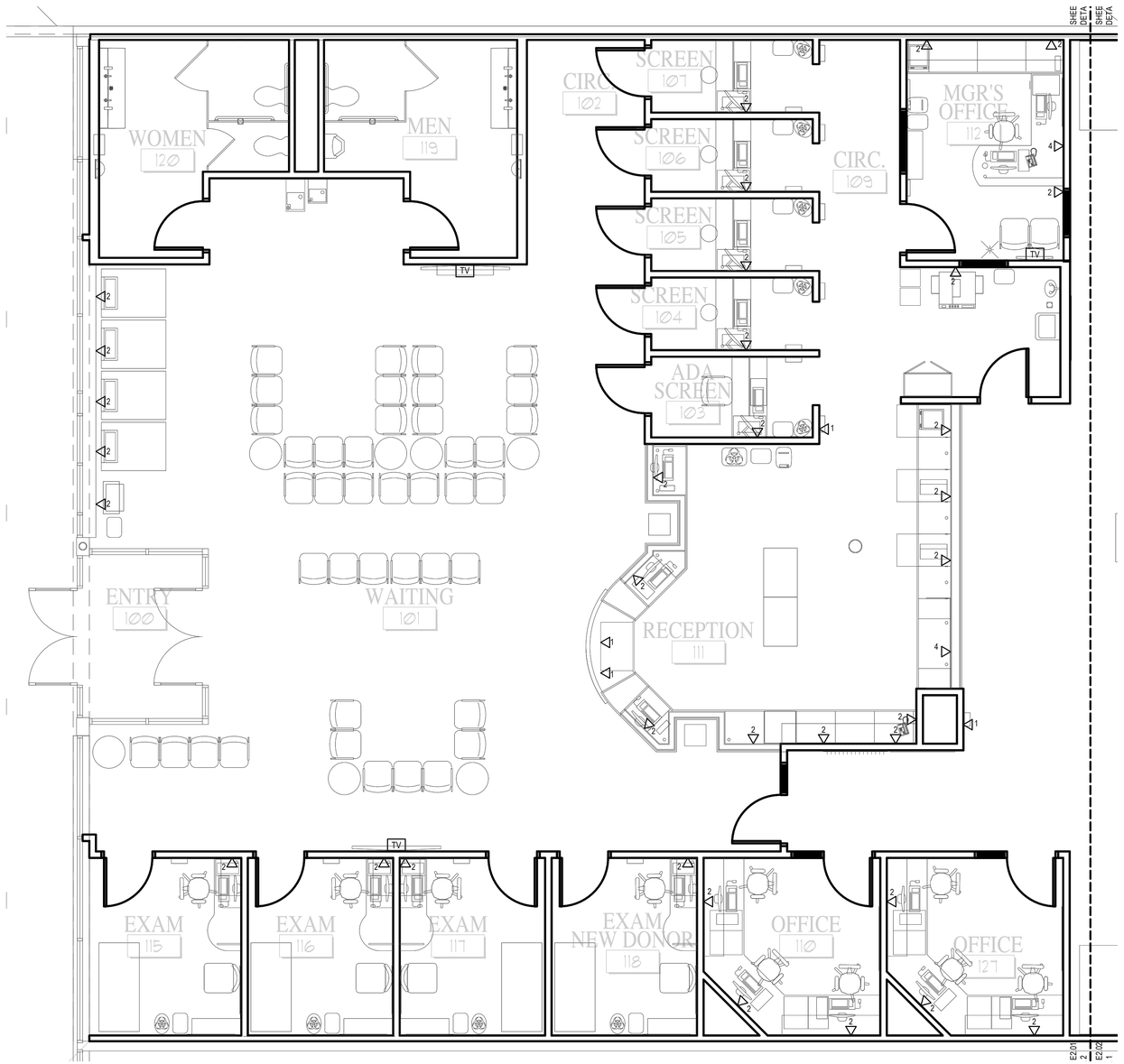
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ELECTRICAL POWER PLAN

E2.02



DATA PLAN | 1
1/4"=1'-0" | E2.03

NORTH

GENERAL NOTES:

A. ALL WORK SHALL MEET OR EXCEED ALL NEC STANDARDS.

B. SEE MAIN ELECTRICAL GENERAL NOTES FOR MORE INFORMATION.

C. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO ROUGH-IN.

D. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL FIXTURES AND DEVICES PRIOR TO ROUGH-IN.

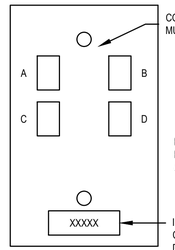
E. VERIFY THE COLOR OF ALL FIXTURES, DEVICES, AND COVER PLATES WITH OWNER.

F. PROVIDE QUANTITY OF CAT-6 / HDMI OUTLETS AS NOTED ON PLANS.

**** NOTE ****

BP-23 IS RESPONSIBLE FOR PROVIDING ALL LOW VOLTAGE WIRING FROM ALL DEVICES TO THE IT ROOM. ALL CABLES SHALL BE LABELED PER THEIR DESTINATION AND FUNCTION. COORDINATE WITH IT SUB CONTRACTOR FOR REQUIREMENTS.

ALL TEL/DATA BOXES TO BE 2-1/8" DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING.



COVER WITH DEVICES ON SINGLE GANG MUD RING.

BP-22 CONTRACTOR SHALL PROVIDE BOX, CONDUIT AND PULLSTRING.

IDENTIFICATION. COORDINATE WITH TENANT FOR EXACT DESIGNATION REQUIRED ON EACH FACEPLATE. (TYPICAL)

FACEPLATES (BP-23) | 2
NTS | E2.03

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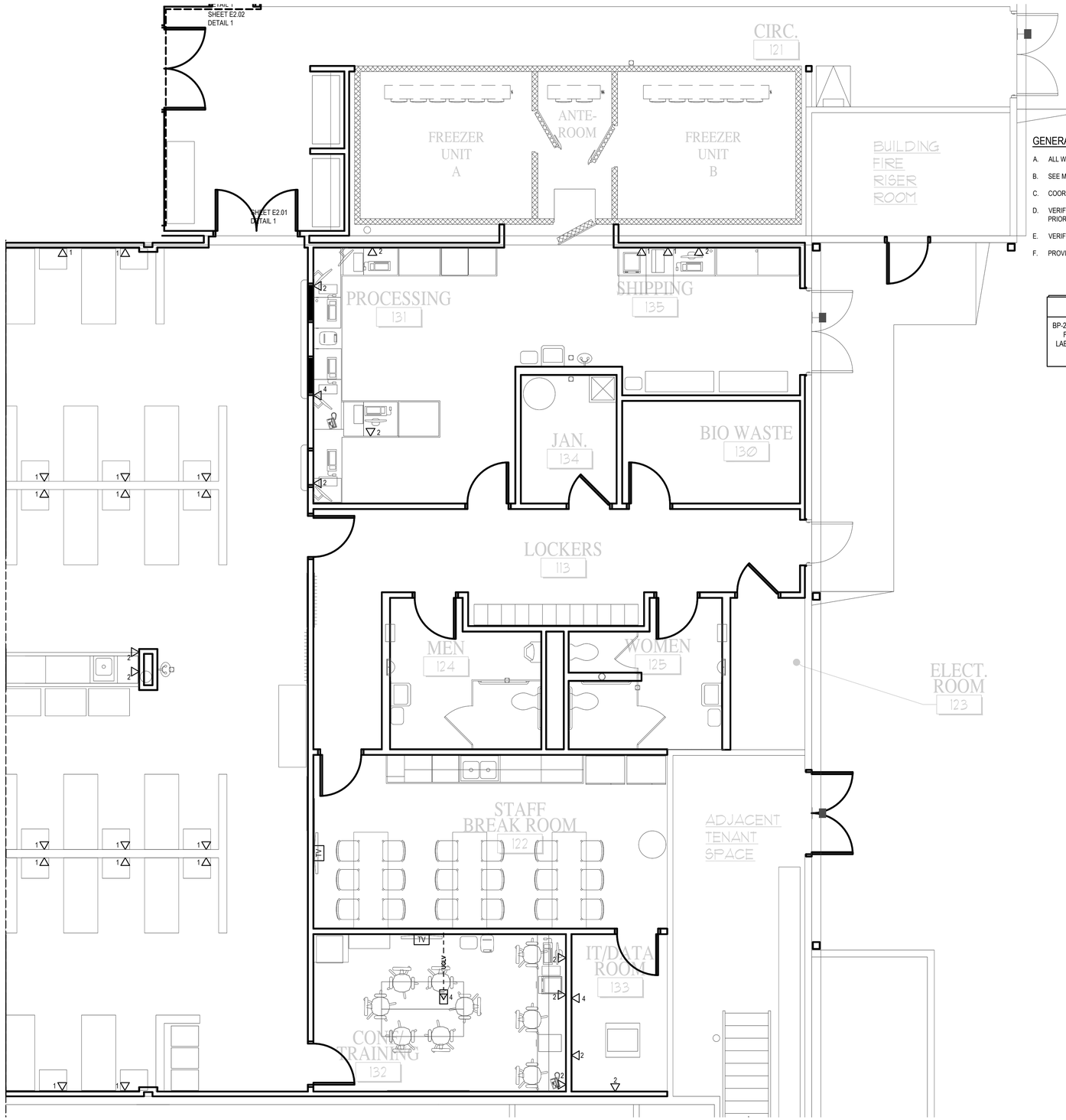
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DATA PLAN

E2.03



DATA PLAN | 1
1/4"=1'-0" | E2.04

NORTH

GENERAL NOTES:

A. ALL WORK SHALL MEET OR EXCEED ALL NEC STANDARDS.

B. SEE MAIN ELECTRICAL GENERAL NOTES FOR MORE INFORMATION.

C. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO ROUGH-IN.

D. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL FIXTURES AND DEVICES PRIOR TO ROUGH-IN.

E. VERIFY THE COLOR OF ALL FIXTURES, DEVICES, AND COVER PLATES WITH OWNER.

F. PROVIDE QUANTITY OF CAT-6 / HDMI OUTLETS AS NOTED ON PLANS.

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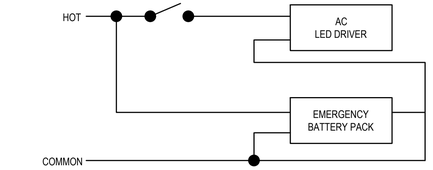
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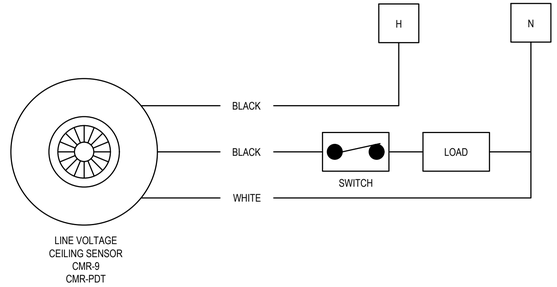
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DATA PLAN

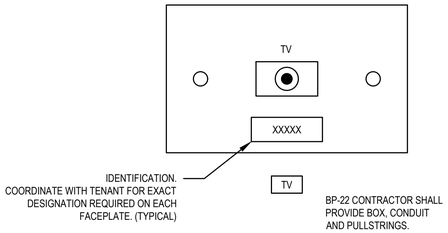
E2.04



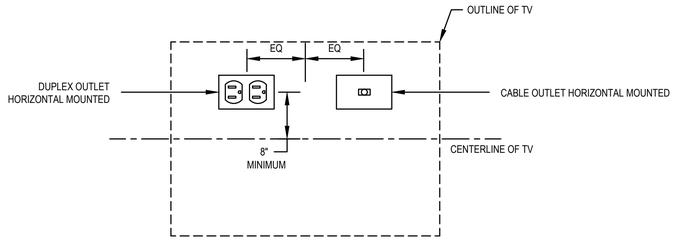
EMERGENCY BATTERY PACK WIRING DIAGRAM | 1
NTS | E5.01



LINE VOLTAGE CEILING SENSOR | 2
NTS | E5.01



VIDEO FACEPLATE (BP-23) | 3
NTS | E5.01



TV OUTLET MOUNTING | 4
NTS | E5.01

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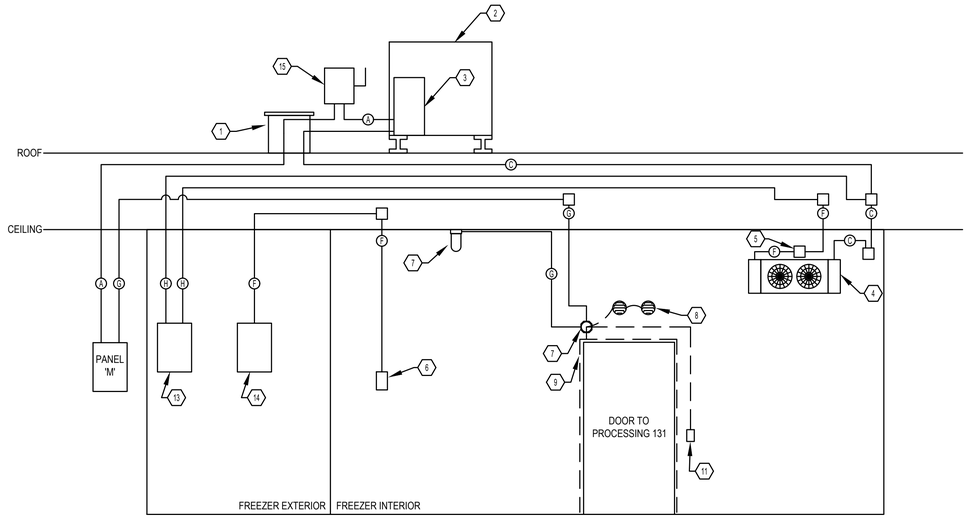
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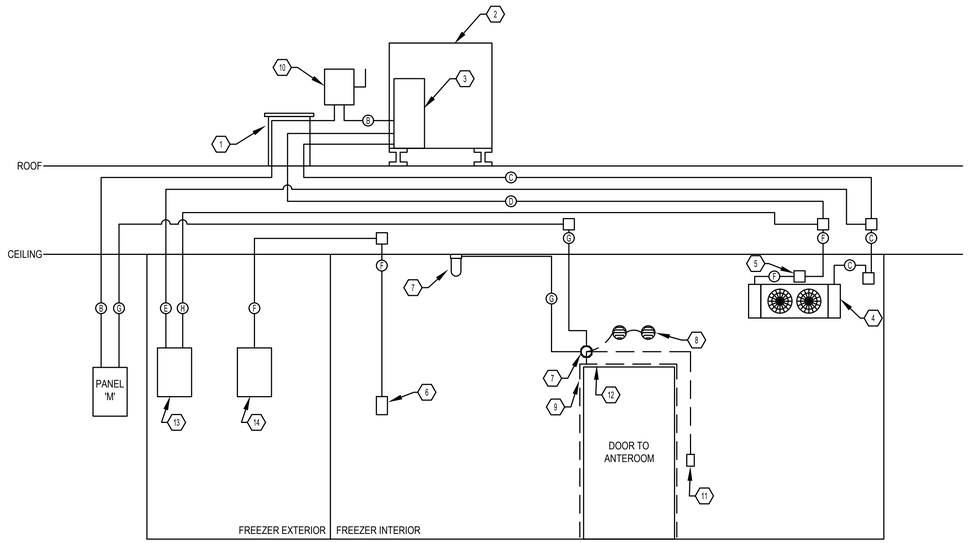
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ELECTRICAL DETAILS

E5.01



FREEZER WIRING DIAGRAM (ANTEROOM FREEZER) | 2
NTS | E5.02



FREEZER WIRING DIAGRAM (TYPICAL OF CU 'A' AND CU 'B') | 1
NTS | E5.02

FREEZER GENERAL NOTES:

A. ALL WORK SHALL MEET OR EXCEED ALL NEC STANDARDS.

B. SEE MAIN ELECTRICAL GENERAL NOTES FOR MORE INFORMATION.

C. COORDINATE AND VERIFY ALL FREEZER EQUIPMENT, ELECTRICAL CONNECTIONS, AND DEVICE LOCATIONS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. MAKE ALL FINAL CONNECTIONS.

D. ALL ELECTRICAL CONNECTIONS TO FREEZER EQUIPMENT SHALL INCLUDE A GREEN INSULATED GROUND WIRE CONNECTION.

E. DOOR HEATERS, LIGHT SWITCHES, AND PRESSURE RELIEF PORT HEATERS PRE-WIRED TO RECESSED JUNCTION BOXES NEAR TOP OF FREEZER PANELS BY BP-24. FINAL CONNECTION BY BP-22.

F. ALL CONDUCTORS AND CONDUIT SHOWN ON THIS SHEET TO BE PROVIDED BY BP-22. VERIFY ALL REQUIREMENTS WITH EQUIPMENT PROVIDER.

G. ALL CONDUCTORS INSTALLED WITHIN FREEZER BOXES TO BE RATED FOR -40°F.

H. ALL CONDUITS THAT PENETRATE INTO FREEZERS SHALL BE INTERNALLY SEALED AFTER THE INSTALLATION OF THE CONDUCTORS TO PREVENT THE TRANSMISSION OF MOISTURE LADEN AIR INTO THE FREEZER.

FREEZER DETAIL CIRCUIT SCHEDULE:

A. (3) #10 AND (1) #10 GND IN 3/4" CONDUIT.

B. (3) #3 AND (1) #8 GND IN 1-1/4" CONDUIT.

C. (2) #10, (2) #12, (8) #14 AND (1) #10 GND IN 3/4" CONDUIT.

D. (1) BELDEN 8761 (1P 22AWG SHIELDED) IN 3/4" CONDUIT.

E. (2) #12, (3) #14 AND (1) #12 GND IN 1/2" CONDUIT.

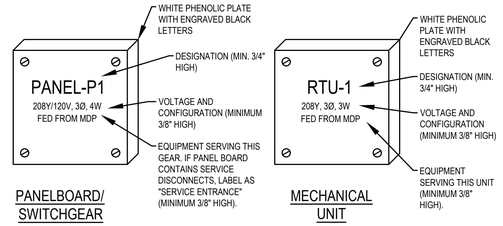
F. (2) BELDEN 8761 (1P 22AWG SHIELDED) IN 3/4" CONDUIT.

G. (2) #12 AND (1) #12 GND IN 1/2" CONDUIT.

H. (2) BELDEN 8761 (1P 22AWG SHIELDED) IN 3/4" CONDUIT.

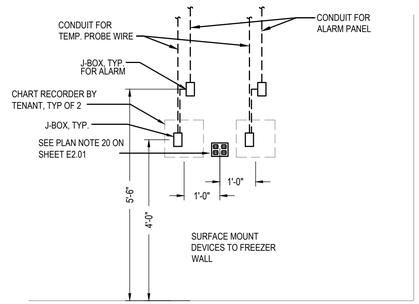
FREEZER DETAIL NOTES:

1. SHEET METAL "DOGHOUSE" PROVIDED BY OTHERS.
2. CONDENSING UNIT PROVIDED BY BP-24.
3. CONTROL PANEL INTEGRAL TO CONDENSING UNIT PROVIDED BY BP-24. FINAL CONDUIT CONNECTIONS TO CONTROL PANEL TO BE IN LIQUIDTIGHT METALLIC CONDUIT.
4. EVAPORATOR UNIT AND INTEGRAL CONTROL PANEL PROVIDED BY BP-24.
5. SINGLE GANG WP JUNCTION BOX FOR TEMPERATURE PROBE (PROBE PROVIDED BY BP-24).
6. LIQUID BOTTLE FOR FREEZER TEMPERATURE MONITORING PROVIDED BY BP-24. LOW VOLTAGE CABLE SUPPLIED BY BP-24 AND INSTALLED BY BP-22.
7. LIGHT FIXTURE PROVIDED BY BP-24.
8. HEATED PRESSURE RELIEF VENT AND WIRING TO JUNCTION BOX PROVIDED BY BP-24.
9. DOOR JAMB HEATER AND WIRING TO JUNCTION BOX PROVIDED BY BP-24.
10. 100A, 250V, 3-POLE, NEMA 3R DISCONNECT.
11. LIGHT SWITCH, CONDUIT, AND WIRING TO JUNCTION BOX ABOVE PROVIDED BY BP-24.
12. DOOR HEATER PROVIDED BY BP-24.
13. REMOTE TEMPERATURE CONTROLLER PROVIDED BY BP-24.
14. CHART RECORDER PROVIDED BY BP-24.
15. 30A, 250V, 3-POLE, NEMA 3R DISCONNECT.

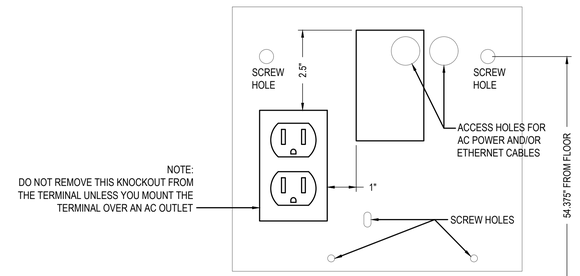


NOTE:
ATTACH SECURELY WITH STAINLESS STEEL SCREWS. NON-CORROSIVE POP RIVETS ARE ACCEPTABLE, ADHESIVE ATTACHMENT IS NOT ACCEPTABLE.

EQUIPMENT IDENTIFICATION DETAIL | 5
NTS | E5.02



FREEZER EQUIPMENT MOUNTING DETAIL | 4
NTS | E5.02



GCAM TIMECLOCK DETAIL | 3
NTS | E5.02

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ELECTRICAL DETAILS

E5.02

LOAD SERVED
PANEL P1
PANEL P2
RTU-05A
RTU-05B
RTU-06
RTU-07
EWH-01
SPARE
112728 105052 101865
319645 887
315215 875

PANEL - P1

PANELBOARD SCHEDULE
CONNECTED LOAD (VA)

LOAD SERVED	CKT No.	CKT BKR	TYPE	LOAD	PHASE A	PHASE B	PHASE C	LOAD	TYPE	CKT BKR	CKT No.	LOAD SERVED
WAITING REC	1	20	2	1080				1200	5	20	2	COPIER
STORE SIGNAGE	3	20	1	1200				1500	5	20	4	CONTROL DESK COPY
DRINKING FOUNTAIN	5	20	5	800				1500	5	20	6	CONTROL DESK COPY
HAND DRYER	7	20	5	1500				1080	2	20	8	CONTROL DESK REC
HAND DRYER	9	20	5	1500				900	2	20	10	CONTROL DESK REC
RESTROOM GFCI	11	20	2	360				1080	2	20	12	CONTROL DESK REC
ATM MACHINE	13	20	5	1200				1080	2	20	14	SCREENING REC
EXAM ROOM REC	15	20	2	720				720	2	20	16	SCREENING REC
EXAM ROOM REC	17	20	2	720				1260	2	20	18	PROCESSING REC
MANAGER REC	19	20	2	1080				540	2	20	20	PROCESSING REC
SECURITY MONITOR	21	20	5	360				1080	2	20	22	PROCESSING REC
OFFICE REC	23	20	2	1260				360	2	20	24	RESTROOM REC
SPARE	25	20						500	5	20	26	IT EQUIPMENT
SPARE	27	20						360	2	20	28	KIOSK REC
SHIPPING PRINTERS	29	20	5	1500				360	2	20	30	KIOSK REC
OFFICE REC	31	20	2	1260				1440	2	20	32	CONFERENCE RM REC
PHLEB. WARD REC	33	20	2	1080				1200	6	20	34	REFRIGERATOR
PHLEB. WARD TV	35	20	5	1080				1200	6	20	36	REFRIGERATOR
PHLEB. WARD TV	37	20	5	720				250	5	20	38	TIMECLOCK
PHLEB. WARD REC	39	20	2	720				720	2	20	40	BREAK ROOM REC
PHLEB WARD DEC LTG	41	20	1	624				1500	6	20	42	DISPOSAL
STORAGE REC	43	20	2	900				1200	6	20	44	MICROWAVE
RECIRC PUMP	45	20	5	180				360	2	20	46	BREAK ROOM AC REC
PRINTER/SHREDDER	47	20	5	1500				900	2	20	48	BACK OF HOUSE REC
ENTRY LIGHTING	49	20	1	1407				1531	1	20	50	PHLEB WARD LTG
OFFICE LIGHTING	51	20	1	1315				1400	1	20	52	PHLEB WARD LTG
BACK HOUSE LIGHTING	53	20	1	1601				100	1	20	54	EF-01
BACK HOUSE LIGHTING	55	20	1	1827				300	1	20	56	EF-02,03,04
OFFICE LIGHTING	57	20	1	1872				100	1	20	58	EF-05
ROOFTOP REC	59	20	2	1080				1500	5	20	60	PRINTER/SHREDDER
UC FRIDGE	61	20	5	650				1800	5	20	62	COFFEE MAKER
SPARE	63	20						180	2	20	64	WP RECEPTACLE
HAND DRYER	65	20	5	1500				1200	5	20	66	FRIDGE
HAND DRYER	67	20	5	1500						20	68	SPARE
UC FRIDGE	69	20	5	650						20	70	SPARE
SPARE	71	20								20	72	SPARE

VOLTAGE: 208
PHASE: 3
WIRE: 4

MAIN TYPE: MLO
OCP = 200
FEED-THRU LUGS: NO

NEC LOAD ANALYSIS	TYPE					
CONTINUOUS	1	13277	125%	16596	TOTAL PHASE A	24045
RECEPTACLE	2	22680	TABLE 220.44	16340	TOTAL PHASE B	18117
HVAC EQUIPMENT	3	0	100%	0	TOTAL PHASE C	22985
NONCOINCIDENT	4	0	0%	0		
MISC EQUIPMENT	5	24090	100%	24090	CONNECTED LOAD (VA)	65147
KITCHEN EQUIPMENT	6	5100	65%	3315	CONNECTED LOAD (A)	181
MOTOR	7	0	100%	0		
LARGEST MOTOR			25%	0	DEMAND LOAD (VA)	60341
DWELLING UNIT	8	0			DEMAND LOAD (A)	167
PANEL FEEDER	9	*				

* SEE THAT PANEL SCHEDULE FOR ITS SUMMARY

PANEL - P2

PANELBOARD SCHEDULE
CONNECTED LOAD (VA)

LOAD SERVED	CKT No.	CKT BKR	TYPE	LOAD	PHASE A	PHASE B	PHASE C	LOAD	TYPE	CKT BKR	CKT No.	LOAD SERVED
PHLEBOTOMY BED	1	20	5	600				600	5	20	2	PHLEBOTOMY BED
PHLEBOTOMY BED	3	20	5	600				600	5	20	4	PHLEBOTOMY BED
PHLEBOTOMY BED	5	20	5	600				600	5	20	6	PHLEBOTOMY BED
PHLEBOTOMY BED	7	20	5	600				600	5	20	8	PHLEBOTOMY BED
PHLEBOTOMY BED	9	20	5	600				600	5	20	10	PHLEBOTOMY BED
PHLEBOTOMY BED	11	20	5	600				600	5	20	12	PHLEBOTOMY BED
PHLEBOTOMY BED	13	20	5	600				600	5	20	14	PHLEBOTOMY BED
PHLEBOTOMY BED	15	20	5	600				600	5	20	16	PHLEBOTOMY BED
PHLEBOTOMY BED	17	20	5	600				600	5	20	18	PHLEBOTOMY BED
PHLEBOTOMY BED	19	20	5	600				600	5	20	20	PHLEBOTOMY BED
PHLEBOTOMY BED	21	20	5	600				600	5	20	22	PHLEBOTOMY BED
PHLEBOTOMY BED	23	20	5	600				600	5	20	24	PHLEBOTOMY BED
PHLEBOTOMY BED	25	20	5	600				600	5	20	26	PHLEBOTOMY BED
PHLEBOTOMY BED	27	20	5	600				600	5	20	28	PHLEBOTOMY BED
PHLEBOTOMY BED	29	20	5	600				600	5	20	30	PHLEBOTOMY BED
PHLEBOTOMY BED	31	20	5	600				600	5	20	32	PHLEBOTOMY BED
PHLEBOTOMY BED	33	20	5	600				600	5	20	34	PHLEBOTOMY BED
PHLEBOTOMY BED	35	20	5	600				600	5	20	36	PHLEBOTOMY BED
SPARE	37	20								20	38	SPARE
SPARE	39	20								20	40	SPARE
SPARE	41	20								20	42	SPARE

VOLTAGE: 208
PHASE: 3
WIRE: 4

MAIN TYPE: MLO
OCP = 125
FEED-THRU LUGS: NO

NEC LOAD ANALYSIS	TYPE					
CONTINUOUS	1	0	125%	0	TOTAL PHASE A	7200
RECEPTACLE	2	0	TABLE 220.44	0	TOTAL PHASE B	7200
HVAC EQUIPMENT	3	0	100%	0	TOTAL PHASE C	7200
NONCOINCIDENT	4	0	0%	0		
MISC EQUIPMENT	5	21600	100%	21600	CONNECTED LOAD (VA)	21600
KITCHEN EQUIPMENT	6	0	65%	0	CONNECTED LOAD (A)	60
MOTOR	7	0	100%	0		
LARGEST MOTOR			25%	0	DEMAND LOAD (VA)	21600
DWELLING UNIT	8	0			DEMAND LOAD (A)	60
PANEL FEEDER	9	*				

* SEE THAT PANEL SCHEDULE FOR ITS SUMMARY

PANEL - M

PANELBOARD SCHEDULE
CONNECTED LOAD (VA)

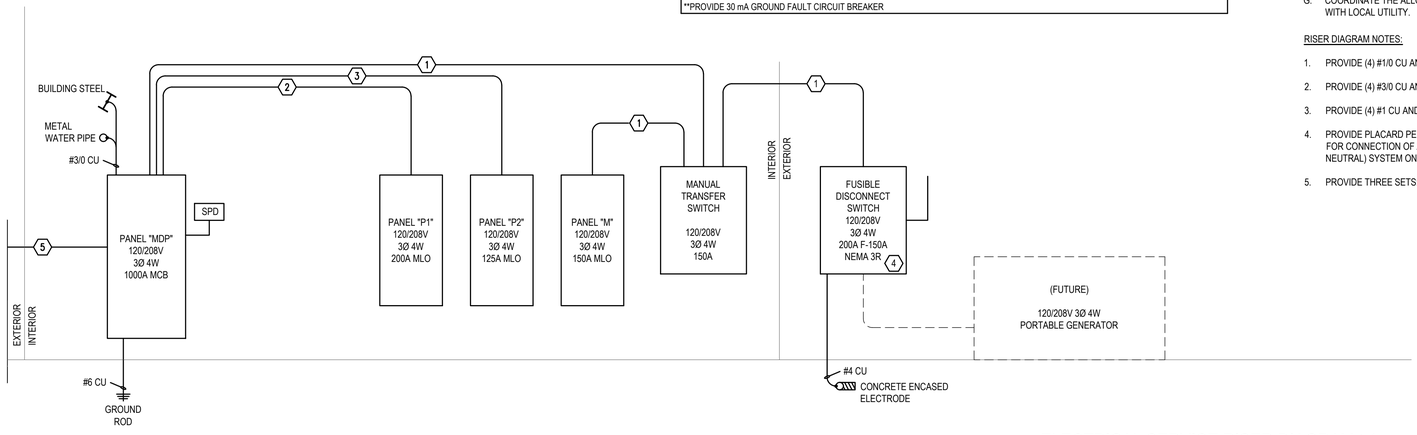
LOAD SERVED	CKT No.	CKT BKR	TYPE	LOAD	PHASE A	PHASE B	PHASE C	LOAD	TYPE	CKT BKR	CKT No.	LOAD SERVED
FREEZER #1 CU	1		7	5812				5812	7		2	FREEZER #2 CU
	3	100	7	5812				5812	7	100	4	
	5		7	5812				5812	7		6	
ANTEROOM FREEZER CU	7	20	7	1172				1500	1	20	8	LTG & DOOR/VENT HEAT
	9		7	1172				750	5	20	10	CHART ALARMS
	11		7	1172							12	BLANK SPACE
**HEAT TRACE (GFEPD)	13	20	5	500							14	BLANK SPACE
**HEAT TRACE (GFEPD)	15	20	5	500							16	BLANK SPACE
**HEAT TRACE (GFEPD)	17	20	5	500							18	BLANK SPACE
BLANK SPACE	19										20	BLANK SPACE
BLANK SPACE	21										22	BLANK SPACE
BLANK SPACE	23										24	BLANK SPACE
BLANK SPACE	25										26	BLANK SPACE
BLANK SPACE	27										28	BLANK SPACE
BLANK SPACE	29										30	BLANK SPACE

VOLTAGE: 208
PHASE: 3
WIRE: 4

MAIN TYPE: MLO
OCP = 150
FEED-THRU LUGS: NO

NEC LOAD ANALYSIS	TYPE					
CONTINUOUS	1	1500	125%	1875	TOTAL PHASE A	14796
RECEPTACLE	2	0	TABLE 220.44	0	TOTAL PHASE B	14046
HVAC EQUIPMENT	3	0	100%	0	TOTAL PHASE C	13296
NONCOINCIDENT	4	0	0%	0		
MISC EQUIPMENT	5	2250	100%	2250	CONNECTED LOAD (VA)	42139
KITCHEN EQUIPMENT	6	0	65%	0	CONNECTED LOAD (A)	117
MOTOR	7	38389	100%	38389		
LARGEST MOTOR			25%	0	DEMAND LOAD (VA)	42514
DWELLING UNIT	8	0			DEMAND LOAD (A)	118
PANEL FEEDER	9	*				

* SEE THAT PANEL SCHEDULE FOR ITS SUMMARY
**PROVIDE 30 mA GROUND FAULT CIRCUIT BREAKER



ELECTRICAL SERVICE RISER DIAGRAM | 1
NTS | E6.01

PANEL SCHEDULE GENERAL NOTES:

A. ALL WORK SHALL MEET OR EXCEED ALL NEC STANDARDS.

B. EC SHALL VERIFY ALL WIRE SIZING DUE TO IN FIELD ROUTING AND VOLTAGE DROP.

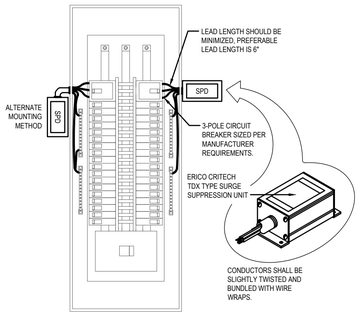
C. ALL 15A-20A CIRCUITS SHALL HAVE A MINIMUM #12 CU WIRE.

D. ALL BRANCH CIRCUIT WIRING SHALL BE COPPER UNLESS NOTED OTHERWISE.

E. PROVIDE APPROPRIATELY RATED EQUIPMENT, BREAKERS, FUSES, ETC. BASED ON SHORT CIRCUIT CALCULATIONS AND FAULT CURRENT INFORMATION FROM LOCAL UTILITY.

F. PROVIDE TYPE WRITTEN CIRCUIT DIRECTORY FOR EACH PANELBOARD.

G. PROVIDE PLACARD ON EACH PIECE OF DISTRIBUTION EQUIPMENT INDICATING EQUIPMENT DESIGNATION, VOLTAGE AND PHASE IDENTIFICATION. PLACARD SHALL BE ENGRAVED PHENOLIC WITH 1/4" TALL LETTERS.



SPD INSTALLATION DETAIL | 2
NTS | E6.01

PROVIDE ALTERNATE BID FOR SPD AND INSTALLATION.

GENERAL NOTES:

A. ALL WORK SHALL MEET OR EXCEED ALL NEC STANDARDS.

B. EC SHALL VERIFY ALL WIRE SIZING DUE TO IN FIELD ROUTING AND VOLTAGE DROP.

C. PROVIDE APPROPRIATELY RATED EQUIPMENT, BREAKERS, FUSES, ETC. BASED ON SHORT CIRCUIT CALCULATIONS AND FAULT CURRENT INFORMATION FROM LOCAL UTILITY.

D. PROVIDE TYPE WRITTEN CIRCUIT DIRECTORY FOR EACH PANELBOARD.

E. PROVIDE PLACARD ON EACH PIECE OF DISTRIBUTION EQUIPMENT INDICATING EQUIPMENT DESIGNATION, VOLTAGE AND PHASE IDENTIFICATION. PLACARD SHALL BE ENGRAVED PHENOLIC WITH 1/4" TALL LETTERS.

F. PROVIDE INTERSYSTEM BONDING ON ALL SERVICES.

G. COORDINATE THE ALLOWABLE MOUNTING HEIGHT OF METER WITH LOCAL UTILITY.

RISER DIAGRAM NOTES:

1. PROVIDE (4) #1/0 CU AND (1) #6 CU GND IN 2" CONDUIT.
2. PROVIDE (4) #3/0 CU AND (1) #6 CU GND IN 2" CONDUIT.
3. PROVIDE (4) #1 CU AND (1) #6 CU GND IN 1½" CONDUIT.
4. PROVIDE PLACARD PER NEC 702.7(C) THAT READS: "WARNING: FOR CONNECTION OF A NONSEPARATELY DERIVED (FLOATING NEUTRAL) SYSTEM ONLY".
5. PROVIDE THREE SETS: (4) 400 MCM CU EACH SET IN 3" CONDUIT.

ALL WORK DESCRIBED IN THIS DRAWING PART OF BP-22, UNLESS NOTED OTHERWISE.

CONTRACTOR NOTE

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD AND TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.

BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE, LOCAL AND FEDERAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION AND CODE/REQUIREMENTS REVIEW BEEN MADE, WILL NOT BE ALLOWED.

PROFESSIONAL SEAL

STATE OF TEXAS
ROBERT M. RUDOLPH
106840
LICENSED
PROFESSIONAL ENGINEER

ISSUED FOR:

PERMIT/BID	03/07/2019

INTERIOR IMPROVEMENTS FOR:

GCAM Plasma

419 E. UNIVERSITY DRIVE
EDINBURG, TX 78539

ARCHITECT:

CASLER DESIGN GROUP, INC.
Architecture • Planning • Interior Design
10805 Indeco Drive • Cincinnati, Ohio 45241
(Phone) 513.791.0456 • (Fax) 513.792.7488

CONSULTANTS:

PE SERVICES
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1-888-957-0800
www.pe-services.com

PE-SERVICES
F-10841
EXP: 11/30/19

JOB NUMBER	PES - 19005
DRAWN BY	STAFF
CHECKED BY	RRR

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ELECTRICAL SCHEDULES AND RISER DIAGRAM

E6.01

COMcheck Software Version 4.1.1.0
Interior Lighting Compliance Certificate

Section 1: Project Information

Energy Code: **2009 IECC**
Project Title: GCAM - EDINBURG
Project Type: Alteration

Construction Site:
419 E. UNIVERSITY DRIVE
EDINBURG, TX 78539

Owner/Agent:
CASLER DESIGN GROUP, INC.
10805 INDECO DRIVE
CINCINNATI, OH 45241
513.791.0456

Designer/Contractor:
PE Services, LLC
9 North Broadway Street
Lebanon, OH 45036
866-997-0600

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)
Healthcare-Clinic	10512	1	10512
		Total Allowed Watts =	10512

Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Healthcare-Clinic (10512 sq.ft.)				
LED 1: A/AE: Other:	1	57	87	4959
LED 2: A2/A2E: Other:	1	43	39	1677
LED 3: A3: Other:	1	16	39	624
LED 4: C1/C2/C2E: Other:	1	56	16	896
LED 5: C4: Other:	1	2	50	100
LED 6: K1: Other:	1	18	11	198
LED 7: W1: Other:	1	6	12	72
LED 8: A2/A2E: Treatment area lights: Other: Exemption:Medical/Dental Procedure Lighting	1	67	39	Exempt
			Total Proposed Watts =	8526

Section 4: Requirements Checklist

Interior Lighting PASSES

Lighting Wattage:

☐ 1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
10512	8526	Passes

Controls, Switching, and Wiring:

☐ 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.

☐ 3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Exceptions:

☐ Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.

☐ Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

☐ 4. Independent controls for each space (switch/occupancy sensor).

Exceptions:

☐ Areas designated as security or emergency areas that must be continuously illuminated.

☐ Lighting in stairways or corridors that are elements of the means of egress.

☐ 5. Master switch at entry to hotel/motel guest room.

☐ 6. Individual dwelling units separately metered.

☐ 7. Medical task lighting or art/history display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.

☐ 8. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.

Exceptions:

☐ Only one luminaire in space.

☐ An occupant-sensing device controls the area.

☐ The area is a corridor, storeroom, restroom, public lobby or sleeping unit.

☐ Areas that use less than 0.6 Watts/sq.ft.

☐ 9. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.

Exceptions:

☐ Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.

☐ 10. Photocell/astronomical time switch on exterior lights.

Exceptions:

☐ Lighting intended for 24 hour use.

☐ 11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Exceptions:

☐ Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Section 5: Compliance Statement

Compliance Statement: The proposed lighting alteration project represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting alteration project has been designed to meet the 2009 IECC, Chapter 8, requirements in COM*check* Version 4.1.1.0 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title _____ Signature _____ Date _____

PROFESSIONAL SEAL

STATE OF TEXAS
ROBERT R. RUDOLPH
106840
LICENSED
PROFESSIONAL ENGINEER

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EXP: 11/30/19

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JOB NUMBER	PES - 19005
DRAWN BY	STAFF
CHECKED BY	RRR

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ENERGY CODE COMPLIANCE

E8.01