PHASE ZERO DESIGN
architects | interior designers

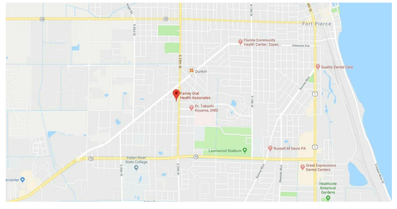
FAMILY ORAL HEALTH ASSOCIATES

1405 S 25TH STREET B
FORT PIERCE, FL 34947

100% CONSTRUCTION DOCUMENTS 06.07.2019

SHEET INDEX

VICINITY MAP



PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF AN INTERIOR BUILD-OUT OF THE PROVIDED SPACE.THIS REMODEL CONSISTS OF A DENTAL OFFICE BUILD-OUT WHICH USES THE EXISTING CONSTRUCTION WITH NEW CONSTRUCTION, AND NEW FURNITURE, EQUIPMENT, MILLWORK, AND FINISHES.
THE TENANT CONSISTS OF (1) BUSINESS.

TENANT FIT-OUT (DENTAL OFFICE) THIS PROJECT CONSISTS OF THE FOLLOWING WORK:

- NEW WALLS AND DOORS
- NEW FINISHES AS SCHEDULED
- NEW FURNITURE
- NEW PLUMBING EQUIPMENT AND CONNECTIONS
- NEW CEILINGS
- NEW LIGHTING
- NEW AIR DISTRIBUTION (DUCTWORK & DIFFUSERS)

PROJECT DIRECTORY

ARCHITECT

PHASE ZERO DESIGN
architects | interior designers

35 POND PARK ROAD, BAY 16
HINGHAM, MASSACHUSETTS 02043
PHONE: (781) 452-7121 EXT.-213
FAX: (781) 875-3039
WWW.PHASEZERODESIGN.COM

PROJECT MANAGER: JULIE NELLIGAN
EMAIL:JNELLIGAN@PHASEZERODESIGN.COM

CLIENT

HEARTLAND DENTAL

1200 NETWORK CENTER DR.
EFFINGHAM, IL 62401
PHONE: (217)-540-5100

CONTACT: RACHAE THIES

DENTAL EQUIPMENT

PATTERSON DENTAL

PATTERSON DENTAL
1031 MENDOTA HEIGHTS RD
MENDOTA HEIGHTS, MN

CONTACT LOCAL EQUIPMENT SPECIALIST

GENERAL CONTRACTOR

G.C.

ADDRESS:
PHONE:
FAX:

CONTACT:
EMAIL:

IT CONSULTANT

TBD

ADDRESS:
PHONE:
FAX:

CONTACT:
EMAIL:

GRAPHICS & SIGNAGE VENDOR

TBD

ADDRESS:
PHONE:
FAX:

CONTACT:
EMAIL:

ARCHITECT:
PHASE ZERO DESIGN
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CLIENT:
HEARTLAND DENTAL

CONSULTANT:
Dialectic ENGINEERING

PROJECT:
FAMILY ORAL HEALTH ASSOCIATES
1405 S 25TH STREET B
FORT PIERCE, FL 34947

REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

SEAL:

ISSUED FOR: 100% CONSTRUCTION DOCUMENTS
ISSUED DATE: 06.07.2019

DRAWN BY: JB

CHECKED BY: JN

PROJECT NUMBER: 2319131

DRAWING NAME:

COVER SHEET

DRAWING NO.

G000

Plot Date: 6/7/2019 4:06:58 PM Dwg Filename: H:\Corporate\Heartland Dental\2319131_Family Oral Health_ Fort Pierce FL\Documentation\RER\Heartland - Fort Pierce.rvt

CASEWORK & COUNTERTOPS
MATERIALS FURNISHED BY HD
INSTALLATION QUOTE BY G.C.
PROVIDED BY:
STEVENS INDUSTRIES, INC.
704 WEST MAIN STREET
TEUTOPOLIS, IL 62467
CONTACT: JASON WOOMER
PHONE: 217.857.7119
EMAIL: JASONW@STEVENSIND.COM
CONTACT: LISA KOERNER
PHONE: 217.857.7193
EMAIL: LISAK@STEVENSIND.COM

CARPET, RESILIENT TILE & ADHESIVE
MATERIALS FURNISHED BY HD
INSTALLATION BY G.C.
COORDINATE QUANTITIES WITH:

SHAW INDUSTRIES
P.O. DRAWER 2128
616 E. WALNUT AVENUE
DALTON, GA 30722-2128
CONTACT: MELANIE JOHNSON
PHONE: 800.367.5504
EMAIL: MELANIE.JOHNSON@SHAWINC.COM

DOORS, FRAMES, HDW, TRIM
SUPPLIED BY HD
INSTALLED BY G.C.
QUANTITIES AND DELIVERY DATE TO BE
COORDINATED BY G.C. 30 DAYS PRIOR
TO INSTALLATION WITH:

EFFINGHAM BUILDERS SUPPLY
100 E. EVERGREEN
EFFINGHAM, IL 62401
CONTACT: BILL METTE
PHONE: 217.347.0567
EMAIL:BILL@GO2EBS.COM
WWW.GOEBS.COM/HEARTLAND-DENTAL

TILE, MOSAIC & GROUT
PROVIDED BY HD
INSTALLED BY G.C.
QUANTITIES AND DELIVERY DATE TO
BE COORDINATED 30 DAYS PRIOR TO
INSTALLATION WITH:

ISC SURFACES
9245 DIELMAN INDUSTRIAL DRIVE
ST. LOUIS, MO 63132
CONTACT: KEVIN PARDO
PHONE: 630.734.5080
EMAIL: KPARDO@ISCSURFACES.COM

PLUMBING FIXTURES
SUPPLIED BY HD
INSTALLED BY G.C.
QUANTITIES AND DELIVERY DATE TO BE
ORDERED ONLINE BY G.C. 30 DAYS PRIOR TO
INSTALLATION, REFER TO PLUMBING
DRAWINGS. FOR ORDER INSTRUCTIONS:

FERGUSON ENTERPRISES
CONTACT: LYNDSEY RITCHIE & CARLA SNOW
PHONE: 636.681.9350
EMAIL: PREFERREDBUILDER.2375
@FERGUSON.COM

DENTAL EQUIPMENT
PROVIDED AND INSTALLED BY PATTERSON DENTAL
TO BE COORDINATED BY G.C.:

PATTERSON DENTAL
1031 MENDOTA HEIGHTS RD.
MENDOTA HEIGHTS, MN
CONTACT LOCAL EQUIPMENT SPECIALIST

LIGHTING FIXTURES
SUPPLIED BY HD
INSTALLED BY G.C.
QUANTITIES AND DELIVERY DATE TO
BE COORDINATED BY G.C. 30 DAYS
PRIOR TO INSTALLATION WITH:

SPECIALTY LIGHTING GROUP
CONTACT: MEGHAN DONOGHUE
PHONE: 860.767.0110 x232
EMAIL: MKD@SSLIGHTING.COM

FIRE EXTINGUISHERS
PROVIDED BY HD
INSTALLED BY HD
QUANTITIES AND DELIVERY DATE TO BE
COORDINATED BY G.C. 30 DAYS PRIOR TO
FINAL INSPECTIONS WITH:

HEARTLAND DENTAL SUPPLIES
PHONE: 217.540.5780
EMAIL: PROSUPPLIES@HEARTLAND.COM

LOW VOLTAGE CABLING
PROVIDED BY HD
INSTALLED BY G.C.
TO BE COORDINATED BY G.C. WITH:

CONTACT: JORDAN HULTS
EMAIL: JHULTS@HEARLTAND.COM

DIGITAL PANOREX AND X-RAY
PROVIDED BY CARESTREAM
INSTALLED BY CARESTREAM
TO BE COORDINATED BY G.C.WITH:

CONTACT: ELIZSHA DARNELL
PHONE: 217.540.5658
EMAIL: EDARNELL@HEARTLAND.COM

HEARTLAND DESIGN STANDARDS

ABBREVIATIONS

A

A.B	ANCHOR BOLT
ABV	ABOVE
AVC	AIR CONDITIONING
ACC	ACCESS
A.C.T	ACOUSTICAL TILE (CLG)
AFF	ABOVE FINISH FLOOR
A.D	AREA DRAIN
ADD	ADDENDUM
ADH	ADHESIVE
ADJ	ADJUSTABLE
AGG	AGGREGATE
A.H.U.	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
A.P.	ACCESS PANEL
APX	APPROXIMATE
ARCH.	ARCHITECT(URAL)
ASPH	ASPHALT
A.T.	ASPHALT TILE
AUTO	AUTOMATIC
AVG	AVERAGE
AWNG	AWNING

B

B36	36" WIDE BASE CAB.
BD	BOARD
BF	BI-FOLD (DOOR)
BIT.	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK (CMUs)
BLKG	BLOCKING
BM	BEAM
B.M.	BENCH MARK
BP	BI-PASS (DOOR)
BRG	BEARING
BRK	BRICK
B.S.	BOTH SIDES
BSMT	BASEMENT
B.O.	BOTTOM
BTWN	BETWEEN
BVL	BEVELED
B.W.	BOTH WAYS

C

CAB	CABINET
C.B.	CATCH BASIN
CEM	CEMENT
CER	CERAMIC
CF	CUBIC FOOT
CHAM	CHAMFER
C.I.	CAST IRON
C.I.P. CONC.	CAST-IN-PLACE CONC.
CIR	CIRCLE
CIRC	CIRCUMFERENCE
C.J.	CONTROL JOINT
CK	CALK(ING) CAULK(ING)
CL	CLOSET OR CENTER LINE
CLG	CEILING
CLR	CLEAR(ANCE)
CLS	CLOSURE OR CLOSER
CM	CENTIMETER(S)
CMU	CONCRETE MASONRY UNIT
C.O.	CASED OPENING
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
COND	(AC) CONDENSER
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRUGATED
CPR	COPPER
C/CPT	CARPET
CRS	COURSE(S)
CSMT	CASEMENT
C.ST.	CAST STONE
C.T.	CERAMIC TILE
CTR	CENTER OR COUNTER
CX	CONNECTION
CY	CUBIC YARD

D

12"D	12" DEEP
D	DRYER OR DRAIN
DBL	DOUBLE
DECO	DECORATIVE
DEM	DEMOLISH, DEMOLITION
DEP	DEPRESSED
DET	DETAIL
D.F.	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIAM	DIAMETER
DIM	DIMENSION
D.L.	DEAD LOAD
DN	DOWN
D.P.	DAMP-PROOFING
DR	DOOR
DRY	DRYER MACHINE
DS	DOWNSPOUT
DIS	DRAWER STACK
D.T.	DRAIN TILE
DTL	DETAIL
DW	DISH WASHER
DWG	DRAWING
DWR	DRAWER

E

EA	EACH
EB	EYEBROW
E.F.	EACH FACE
E.J.	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
E.P.	ELECTRICAL PANEL
EQ	EQUAL
EST	ESTIMATE
E.W.C.	ELECTRICAL WATER COOLER
EXG	EXISTING
EXH	EXHAUST
EXT	EXTERIOR

F

FAS	FASTEN(ER)
F.B.	FACE BRICK
F.B.O.	FURNISHED BY OTHERS
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.F.	FINISH FLOOR
F.G.	FIXED GLASS
FGL	FIBERGLASS
FIN	FINISH
FLG	FLASHING
FLR	FLOOR
FLUR	FLUORESCENT
FN	FENCE
FND	FOUNDATION
F.O.	FACE OF
FP	FIRE PROOF
FPHB	FIRE PROOF HOSE BIBB
FP	FIREPLACE
FR	FRAME
FS	FULL SIZE
FTG	FOOTING
FUR	FURRED(ING)
F.V.	FIELD VERIFY

G

GA	GAUGE
GWB	GYPSUM WALL BOARD
G.C.	GENERAL CONTRACTOR
GD	GRADE OR GRADING
G.D.O.	GARAGE DOOR OPENER
GFI	GROUND FAULT
INTERRUPTER	
GL	GLASS OR GLAZING
GL.BK.	GLASS BLOCK
G.I.	GALVANIZED IRON
GT	GROUT

H

H	HIGH
HB	HOSE BIBB
H.C.	HOLLOW CORE
HD	HEAD OR HARD
H.D.	HEAT DETECTOR OR HEAVY DUTY
HDR	HEADER
HDW	HARDWARE
HT	HEIGHT
H.M.	HOLLOW METAL
HORZ	HORIZONTAL
HR	HOUR
H.R.	HALF ROUND
HS	HORIZONTAL SLIDER
HTG	HEATING
HVAC	HEATING/VENTILATION/AIR COND.
HWD	HARDWOOD

I

I.B.	IRONING BOARD
I.D.	INSIDE DIAMETER
I.L.O.	IN LIEU OF
I.M.	INSULATED METAL
INS/INSUL	INSULATE(TION)
INT	INTERIOR

J

JIST	JOIST
JT	JOINT

K

KD	KNOCKDOWN
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICKPLATE
K/S	KNEE SPACE

L

LAM.	LAMINATE(D)
LAV	LAVATORY
L.B.O.	LOCATION BY OTHERS
LIV	LIVING
L.L.	LIVE LOAD
L.P.	LAMINATED PLASTIC
LT	LIGHT
L.T.	LAUNDRY TUB
LTL	LINTEL
LVL	VENEER LUMBER
LVR	LOUVER

M

M	METER(S)
MAX	MAXIMUM
MAS	MASONRY
MATL	MATERIAL
MC	MEDICINE CABINET
MECH	MECHANICAL
MFR.	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLD	MOULDING
MM	MILLIMETER
MMB	MMB MEMBRANE
M.O.	MASONRY OPENING
MOD	MODULAR
MRB	MARBLE
MTL	METAL
MT	MOUNTED(ING)
MULL	MULLION OR MULLED

N

N.A.	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NL	NAILABLE
NOM	NOMINAL
N.T.S.	NOT TO SCALE
N.G.V.D.	NAT. GEODETIC VERTICAL DATOM

O

OA	OVERALL
OBS	OBSCURE (GLASS)
O.C.	ON CENTER
OHC	OVERHEAD CABINET
O.D.	OUTSIDE DIAMETER
O.G.D.	OVERHEAD GARAGE DOOR
OH	OVERHEAD
OPNG	OPENING
OPT	OPTIONAL
OSB	ORIENTED STRAND BOARD

P

PAR	PARALLEL
P.BD.	PARTICLE BOARD
PCC.	PRECAST CONCRETE
P.E.	PORCELAIN ENAMEL
PED	PEDESTAL (SINK)
PERI	PERIMETER
PKG	PARKING
PL	PLATE
P.LAM.	PLASTIC LAMINATE
PLAS	PLASTER
PNL	PANEL
PNT	PAINT
PR	PAIR
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCHES
PTN	PARTITION
P.T.	PRESSURE TREATED
PV	PAVE(D) OR PAVING
PVC	POLYVINYL CHLORIDE (PIPE)
PVMT	PAVEMENT
PWD	PLYWOOD

Q

Q.T.	QUARRY TILE

R

R	RISER
R/A	RETURN AIR
R.B.	RUBBER BASE
RAD	RADIUS
RBL	RUBBLE
R.D.	ROOF DRAIN
REF	REFRIGERATOR
REQ	REQUIRED
RES	RESILIENT
REV	REVISION, REVISED
REINF	REINFORCED(ING)
RFG	ROOFING
R.J.B.	REINFORCED JUNCTION BOX
RLG	RAILING
R&M	RANGE W/ MICROWAVE
RWL	ROOF WATER LEADER
R.O.	ROUGH OPENING
R.O.W.	RIGHT OF WAY
R&S	ROD AND SHELF(S)

S

SC	SOLID CORE
SCH	SCHEDULE
SD	SMOKE DETECTOR
SEC	SECTION
S.F.	SQUARE FEET
SF.GL.	SAFETY GLASS
S.G.D.	SLIDING GLASS DOOR
SH	SINGLE HUNG OR SHELF
SHT	(DRAWING) SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SKL	SKYLIGHT
SL	SIDELIGHT OR SLEEVE
SNT	SEALANT
SPC	SPACER
SPEC	SPECIFICATIONS
SPK	SPEAKER
S.ST.	STAINLESS STELL
STD	STANDARD
STOR	STORAGE
STL	STEEL
STR	STRUCTURAL
SQ	SQUARE
SUS	SUSPENDED
S.W.	SHEAR WALL

T

T	TREAD
T.B.	TOWEL BAR
T.B.D.	TO BE DETERMINED
TC	TERRA COTTA
T.C.J.	TROWELED CONTROL
JOINT	
TEMP	TEMPERATURE
T&G	TONGUE &GROOVE
TEL	TELEPHONE
THK	THICK(NESS)
THR	THRESHOLD
T.O.C.	TOP OF COUNTER
T.O.F.	TOP OF FOUNDATION
T.O.M.	TOP OF MASONRY
T.O.W.	TOP OF WINDOW
TR	TRANSOM
TP	TOILET PAPER HOLDER
TV	TELEVISION OUTLET
TYP	TYPICAL

U

UC	UNDERCUT
UNF	UNFINISHED
U.N.O.	UNLESS NOTED
OTHERWISE	

V

VB	VANITY BASE
V.B.	VAPOR BARRIER
VB#	VANITY BASE WIDTH
VERT	VERTICAL
VIN	VINYL (SHEET)
V.S.	VEGETABLE SINK
V.C.T.	VINYL COMPOSITION TILE

W

W##	WALL CAB DIMENSIONS
W	WIDE OR WASHING
MACHINE	
WC	WATER CLOSET
WD	WOOD
WF	WIDE FLANGE
WH	WATER HEATER
W.H.	WALL HUNG
WI	WROUGHT IRON
WIC	WALK-IN-CLOSET
WIN	WINDOW
W/W/O	WITH OR WITHOUT
WP	WATERPROOF
W.R.	WATER RESISTANT
W.S.	WATER SOFTENER
WSCT	WAINSCOT
W.T.W.	WALL TO WALL
WWM	WELDED WIRE MESH

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO FEDERAL, STATE AND MUNICIPAL CODES AND ORDINANCES. THESE SHALL SUPERSEDE DRAWINGS, NOTES AND DIMENSIONS IN ALL CASES. THE ARCHITECT SHALL BE NOTIFIED OF SUCH CHANGES BEFORE WORK IS STARTED. CONTRACTOR SHALL OBTAIN PERMITS BEFORE STARTING WORK, AND OBTAIN APPROVALS OF ALL REGULATORY AGENCIES UPON COMPLETION, AND AS REQUIRED
2. THE CONTRACT DOCUMENTS CONSIST OF THE DRAWINGS, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, OWNER-CONTRACTOR AGREEMENTS AND ALL ADDENDA ISSUED PRIOR TO AND ALL PLAN CHANGES ISSUED AFTER EXECUTION OF THE CONTRACT.
3. UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS AS BEING NOT IN CONTRACT (N.I.C.) OR EXISTING; ALL ITEMS, MATERIALS AND INSTALLATION OF SAME ARE A PART OF THE CONTRACT DEFINED BY THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL ACCESSORIES, COMPONENTS AND ASSEMBLIES REQUIRED FOR THE WORK SHOWN.
4. THE GENERAL CONTRACTOR SHALL SUBMIT A DETAILED PROJECT SCHEDULE AND IS SOLELY RESPONSIBLE FOR CONSTRUCTION SEQUENCING, METHODS AND TECHNIQUES.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PAYING FOR AND OBTAINING ALL PERMITS, INSPECTIONS, REQUIRED TESTS AND UTILITY CONNECTIONS, TERMINATIONS, AND CAPPING UNLESS OTHERWISE NOTED.
6. THE GENERAL CONTRACTOR SHALL PROVIDE AND IS SOLELY RESPONSIBLE FOR PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS REQUIRED BY THE CODES, ORDINANCES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT PLACE.
7. ANY WORK INVOLVING ALTERATIONS TO EXISTING BUILDING UTILITIES & WHICH REQUIRE UTILITY SHUT DOWN, SHALL BE COORDINATED WITH THE OWNER AND SHALL REQUIRE A MINIMUM OF (5) FIVE DAYS NOTICE.
8. IN THE EVENT OF DISCREPANCIES IN THE DRAWINGS, THE COSTLIER OR MORE RESTRICTIVE CONDITIONS SHALL BE DEEMED THE CONTRACT REQUIREMENT, UNLESS OTHERWISE STATED IN WRITING, FROM THE OWNER OR OWNER'S REPRESENTATIVE. ANY DISCREPANCIES SHOULD IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
9. THE GENERAL CONTRACTOR SHALL WARRANT WORK PERFORMED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
10. VERIFY DIMENSIONS AND JOB CONDITIONS PRIOR TO SUBMITTING BIDS, AND REPORT TO THE ARCHITECT AND OR OWNER DISCREPANCIES WHICH WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK. DO NOT SCALE THE DRAWINGS.
11. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO KEEP THE PREMISES CLEAN OF DEBRIS, RUBBISH, EXCESS MATERIALS, ETC. RESULTING FROM THE LABELS, STICKERS, PAINT AND WRAPPING MATERIALS REMOVED FROM FIXTURES, WINDOWS AND FLOORS AS TO REQUIRE ONLY NORMAL WASHING AND CLEANING PRIOR TO THE TURNOVER OF THE SPACE TO THE TENANT.
12. CHARGES FOR EXTRA WORK DONE BY THE CONTRACTOR WILL NOT BE HONORED UNLESS THE WORK AND THE AMOUNT ARE AGREED TO BY THE OWNER, OR THEIR AGENT, IN WRITING BEFORE THE WORK IS DONE, BASED UPON UNIT PRICING.
13. AS REQUIRED BY CODE, EACH CONTRACTOR AND EACH SUBCONTRACTOR SHALL OBTAIN REQUIRED INSPECTION OF THAT PORTION OF WORK.
14. ALL FIRE-RATED ASSEMBLES SHALL BE INSTALLED, LABELED, AND INSPECTED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE WHEN REQUIRED.
15. CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS AS DICTATED BY STATE AND LOCAL BUILDING AND SAFETY CODES. COORDINATE WITH OWNER AND OWNER'S REPRESENTATIVE.
16. PROVIDE SOLID WOOD BLOCKING BEHIND ALL GRAB BARS, TOILET ACCESSORIES, MILLWORK, ETC. COORDINATE LOCATION OF ALL SUCH WALL ATTACHED ITEMS WITH OWNER OR THEIR AGENT PRIOR TO INSTALLATION OF WOOD BLOCKING.
17. SEAL ALL JUNCTIONS OF PLUMBING FIXTURES TO ADJOINING WALL SURFACES.
18. DIMENSIONS TO FACE OF FINISHED SURFACE UNLESS OTHERWISE NOTED.
19. ALL REQUESTS FOR PAYMENT SHALL BE MADE WITH THE USE OF THE AIA APPLICATION FOR PAYMENT AND PROVIDED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND RECOMMENDATION TO THE OWNER.
    THE GENERAL CONTRACTOR SHALL COORDINATE ALL STRUCTURAL, MECHANICAL AND PLUMBING SYSTEMS PRIOR TO THE START OF THE CONSTRUCTION.
20. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS NECESSARY TO INSURE ISSUANCE OF AN OCCUPANCY PERMIT UPON COMPLETION OF THE WORK
21. CONTRACTOR SHALL MAINTAIN ALL INSURANCE REQUIRED BY OWNER AND/OR GOVERNMENTAL AUTHORITIES AND SHALL PROVIDE PROOF OF SUCH INSURANCE AS REQUIRED.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING ALL WORK DURING CONSTRUCTION.
23. THE DRAWINGS MAY NOT BE TO SCALE REFER TO PLANS, SECTIONS, AND DETAILS FOR DIMENSIONS.
24. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE COMMENCING CONSTRUCTION AND REPORT ALL DISCREPANCIES TO THE ARCHITECT.
25. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER ALL LOCATIONS FOR RECEPTACLES, SWITCHES, & DIMMERS, POS CABLE & TELEPHONE PRIOR TO THE START OF CONSTRUCTION.
26. ALL EXTERIOR LIGHTING AND WET AREA LIGHTING TO INCLUDE MANUFACTURES WATER TIGHT HOUSES.
27. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE THE INSTALLATION OF ALL CEILING DIFFUSERS, EMERGENCY SIGNAGE, LIGHTING, ACCESS PANELS, ETC TO FULLY COMPLETE THE SCOPE OF WORK.
28. THE GENERAL CONTRACTOR SHALL PROVIDE & COORDINATE WITH THE ELECTRICAL CONTRACTOR AND THE FIRE DEPARTMENT ALL LOCATIONS FOR EXIT SIGNS, EMERGENCY LIGHTING, FIRE EXTINGUISHERS, FIRE ALARM PULL STATIONS, HORN STROBES ETC.
29. PROVIDE PRESSURE TREATED WOOD AT ALL FRAMING LOCATIONS WHERE WOOD IS IN CONTACT WITH CONCRETE.
30. ALL PENETRATIONS THROUGH RATED WALL ASSEMBLIES SHALL BE TREATED WITH AN APPROVED "FIRESTOP" MATERIAL TO MEET THE SPECIFIED WALL CONSTRUCTION.
31. USE MOISTURE RESISTANT WALL BOARD IN LIEU OF GYPSUM WALLBOARD AT ALL WET LOCATIONS.
32. THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS. ALTHOUGH THESE PLANS IN SOME CASES MAY EXCEED THE MINIMUM LOCAL, STATE OR FEDERAL REQUIREMENTS, STRICT COMPLIANCE BY THE CONTRACTOR WITHTHESE PLANS IS MANDATORY. ANY DEVIATION FROM THESE PLANS WILL BE AT THE SOLE DISCRETION, RESPONSIBILITY AND LIABILITY OF THE CONTRACTOR.

GENERAL NOTES

QUALITY CONTROL

1. SITE MEETINGS: CONTRACTOR TO CONDUCT SITE MEETINGS AND WRITE MEETING MINUTES AT FREQUENCY AS DIRECTED BY OWNER, UNLESS OTHERWISE DIRECTED BY OWNER OR OWNER'S REPRESENTATIVE. CONTRACTOR AND ALL SUB-CONTRACTORS MUST BE PRESENT, UNLESS WAIVED BY OWNER.
2. INSTALLATION: EXCEPT AS MORE STRINGENT REQUIREMENTS ARE INDICATED ON THESE DRAWINGS AND IN THESE NOTES, COMPLY WITH GENERALLY ACCEPTED INDUSTRY STANDARDS AND INSTALL PRODUCTS IN STRICT COMPLIANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
3. WHEN EVALUATING APPEARANCE OR CONFORMANCE WITH DESIGN INTENT, THE WORDS "ACCEPTABLE", "VISIBLE", "INVISIBLE", "MATCHING", "ALIGNED", AND SIMILAR TERMS OF JUDGMENT SHALL MEAN "ACCEPTABLE, ETC., IN THE OPINION OF THE ARCHITECT OR OWNER".
4. G.C. TO PROVIDE LEVEL 5 DRYWALL FINISH THROUGHOUT SPACE

QUALITY CONTROL NOTES

ARCHITECT:
PHASE ZERO DESIGN
architects | interior designers
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CONSULTANT:
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PROJECT:
FAMILY ORAL HEALTH ASSOCIATES
1405 S 25TH STREET B
FORT PIERCE, FL 34947

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PROJECT NUMBER: 2319131

DRAWING NAME:
GENERAL NOTES

DRAWING NO.
G001

Plot Date: 6/7/2019 4:06:58 PM Dwg Filename: H:\Corporate\Heartland Dental\2319131_Family Oral Health_ Fort Pierce FL\Documentation\XREF\Heartland - Fort Pierce.rvt

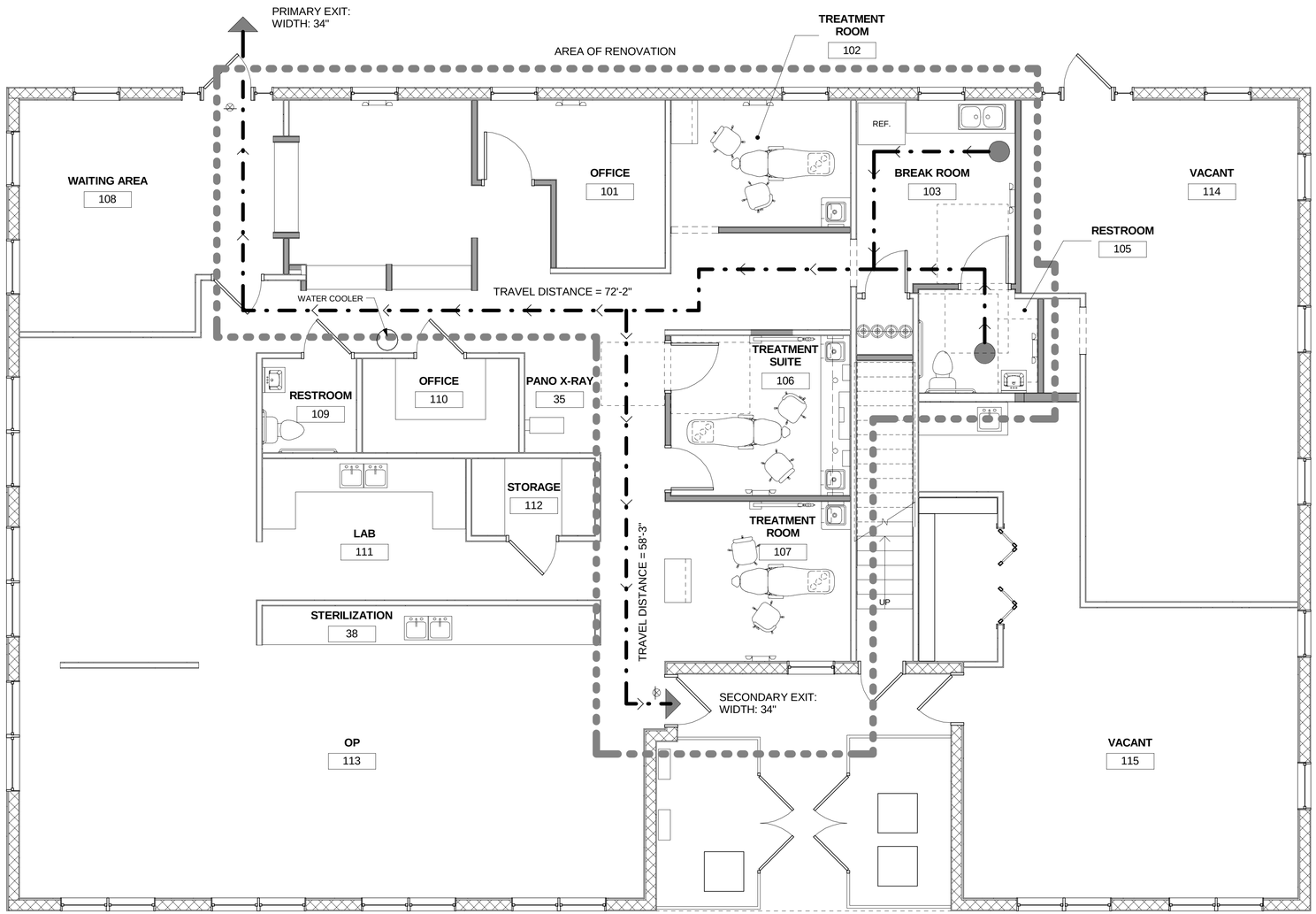
APPLICABLE CODES	
BUILDING CODE	2017 FLORIDA BUILDING CODE (6TH EDITION)
PLUMBING CODE	2017 FBC PLUMBING
MECHANICAL CODE	2017 FBC MECHANICAL
ELECTRIC CODE	2014 NATIONAL ELECTRIC CODE
FIRE PROTECTION	FLORIDA FIRE PREVENTION CODE (6TH EDITION)
ACCESSIBILITY	2017 FBC ACCESSIBILITY
ENERGY CONSERVATION	2017 FBC ENERGY CONSERVATION
DESIGN DATA	
TENANT FOOTPRINT	2,635 SQ. FT
BUILDING USE GROUP	(B) BUSINESS
OCCUPANCY CLASS	(B) BUSINESS
OCCUPANT LOAD	2,635 / 100 = 26
REQUIRED TENANT SEPERATIONS	1-HOUR
TOTAL NUMBER OF EXITS REQUIRED	(1) REQUIRED, (2) PROVIDED
MAX TRAVEL DISTANCE	200' MAX ALLOWED
EGRESS WIDTH REQUIRED	26 X .2/OCC =6 IN.
EGRESS WIDTH PROVIDED	68"
FIRE SUPPRESSION	NOT SPRINKLERED

PLUMBING REQUIREMENTS

	REQUIRED	PROVIDED
WATER CLOSETS	2	2
LAVATORIES	2	2
DRINKING FOUNTAINS	1	1(WATER COOLER)
SERVICE SINKS	1	1

CODE REVIEW INFORMATION:
APPLICABLE CODES:
ALL WORK DONE UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS, DRAWINGS & CONSTRUCTION CRITERIA OF THE LANDLORD, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS OF ALL GOVERNING BODIES INVOLVED.
ANY MODIFICATIONS TO THE CONTRACT WORK REQUIRED BY SUCH AUTHORITIES SHALL BE PERFORMED BY THE TENANT'S CONTRACTOR.
ALL PERMITS AND LICENSES NECESSARY FOR THE EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE TENANT'S CONTRACTOR(S).
APPLICABLE CODES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

CODE ANALYSIS



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

1

APPLICABLE CODES:
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ANY MODIFICATIONS TO THE CONTRACT WORK REQUIRED BY SUCH AUTHORITIES SHALL BE PERFORMED BY THE TENANT'S CONTRACTOR. ALL PERMITS AND LICENSES NECESSARY FOR THE EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE TENANT'S CONTRACTOR(S). ILLUMINATED EXIT SIGNS SHALL BE PROVIDED THROUGHOUT THE BUILDING. ALL EXIT SIGNS SHALL HAVE BATTERY BACKUP.

THIS BUILDING (OR TENANT SPACE) SHALL BE PROVIDED WITH APPROVED BATTERY POWERED EMERGENCY LIGHTING TO ILLUMINATE ALL REQUIRED MEANS OF EGRESS.

DOORS SHALL BE ARRANGED TO BE OPENED READILY FROM THE EGRESS SIDE WHENEVER THE BUILDING (OR TENANT SPACE) IS OCCUPIED. LOCKS, IF PROVIDED, SHALL NOT REQUIRE THE USE OF A KEY, A TOOL, OR SPECIAL KNOWLEDGE OR EFFORT FOR OPERATION FROM THE EGRESS SIDE.

EMERGENCY LIGHTING UNITS ARE TO BE WIRED INTO THE NORMAL LIGHTING CIRCUIT AND ARRANGED AS TO PROVIDE THE REQUIRED ILLUMINATION AUTOMATICALLY IN THE EVENT OF ANY INTERRUPTION OF NORMAL LIGHTING SUCH AS ANY FAILURE OF PUBLIC UTILITY OR OUTSIDE ELECTRICAL POWER SUPPLY, OPENING OF A CIRCUIT BREAKER OR FUSE, OR ANY MANUAL ACTS INCLUDING ACCIDENTAL OPENING OF SWITCH CONTROLLING NORMAL LIGHTING FACILITIES.

EVERY BATHROOM DOOR LOCK SHALL BE DESIGNED TO PERMIT OPENING OF THE LOCKED DOOR FROM THE OUTSIDE IN A EMERGENCY. THE OPENING DEVICE SHALL BE READILY ACCESSIBLE TO ANYONE OUTSIDE THE DOOR.

THE ELEVATION OF THE FLOOR SURFACES ON BOTH SIDES OF A DOOR SHALL NOT VARY BY MORE THAN 1/2". THE ELEVATION SHALL BE MAINTAINED ON BOTH SIDES OF THE DOORWAY FOR A DISTANCE NOT LESS THAN THE WIDTH OF THE WIDEST LEAF. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2" IN HEIGHT. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES IN EXCESS OF 1/4" SHALL BE BEVELED WITH A SLOPE OF NOT STEEPER THAN 1 IN 2.

A LATCH OR OTHER FASTENING DEVICE ON A DOOR SHALL BE PROVIDED WITH A RELEASING DEVICE HAVING AN OBVIOUS METHOD OF OPERATION AND THAT IS READILY OPERATED UNDER ALL LIGHTING CONDITIONS. THE RELEASING MECHANISM FOR ANY LATCH SHALL BE NOT LESS THAN 34", AND NOT MORE THAN 48" ABOVE FINISH FLOOR. DOORS SHALL BE OPERABLE WITH NOT MORE THAN ONE RELEASING OPERATION.

EVERY EXTERIOR AND INTERIOR WALL AND PARTITION SHALL BE FIRE STOPPED AT EACH FLOOR LEVEL, AT THE TOP STORY CEILING LEVEL, AND AT THE LEVEL OF SUPPORT FOR ROOF.

PENETRATIONS OF ANY FIRE/SMOKE BARRIER SHALL BE FILLED WITH MATERIAL CAPABLE OF MAINTAINING FIRE/ SMOKE RESISTANCE OR PROTECTED BY APPROVED DEVICE FOR SUCH PURPOSES.

PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED, INSPECTED, AND MAINTAINED IN ACCORDANCE WITH NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS.

LIFE SAFETY NOTES

FIRE PROTECTION	
GRAPHIC	DESCRIPTION
	EMERGENCY LIGHT FIXTURE
	EXIT SIGNAGE
S	SYSTEM SMOKE DETECTOR
F	MANUAL PULL STATION
F	ADA HORN STROBE
A	REMOTE ANNUNCIATOR
F	ADA STROBE ONLY
H	HEAT DETECTOR

NOTE:
REFER TO FIRE PROTECTION PLANS FOR FIRE ALARM DEVICE AND EQUIPMENT LOCATIONS

EGRESS LEGEND	
	REMOTE POINT
	PATH OF EGRESS
	COMMON PATH
	POINT OF DISCHARGE

EGRESS PLAN LEGEND
1/4" = 1'-0"

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CONSULTANT:
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PROJECT:
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1405 S 25TH STREET B
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REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

SEAL:

ISSUED FOR: 100% CONSTRUCTION DOCUMENTS
ISSUED DATE: 06.07.2019

DRAWN BY: JB

CHECKED BY: JN

PROJECT NUMBER: 2319131

DRAWING NAME:
EGRESS FLOOR PLAN & CODE ANALYSIS

DRAWING NO.
G101

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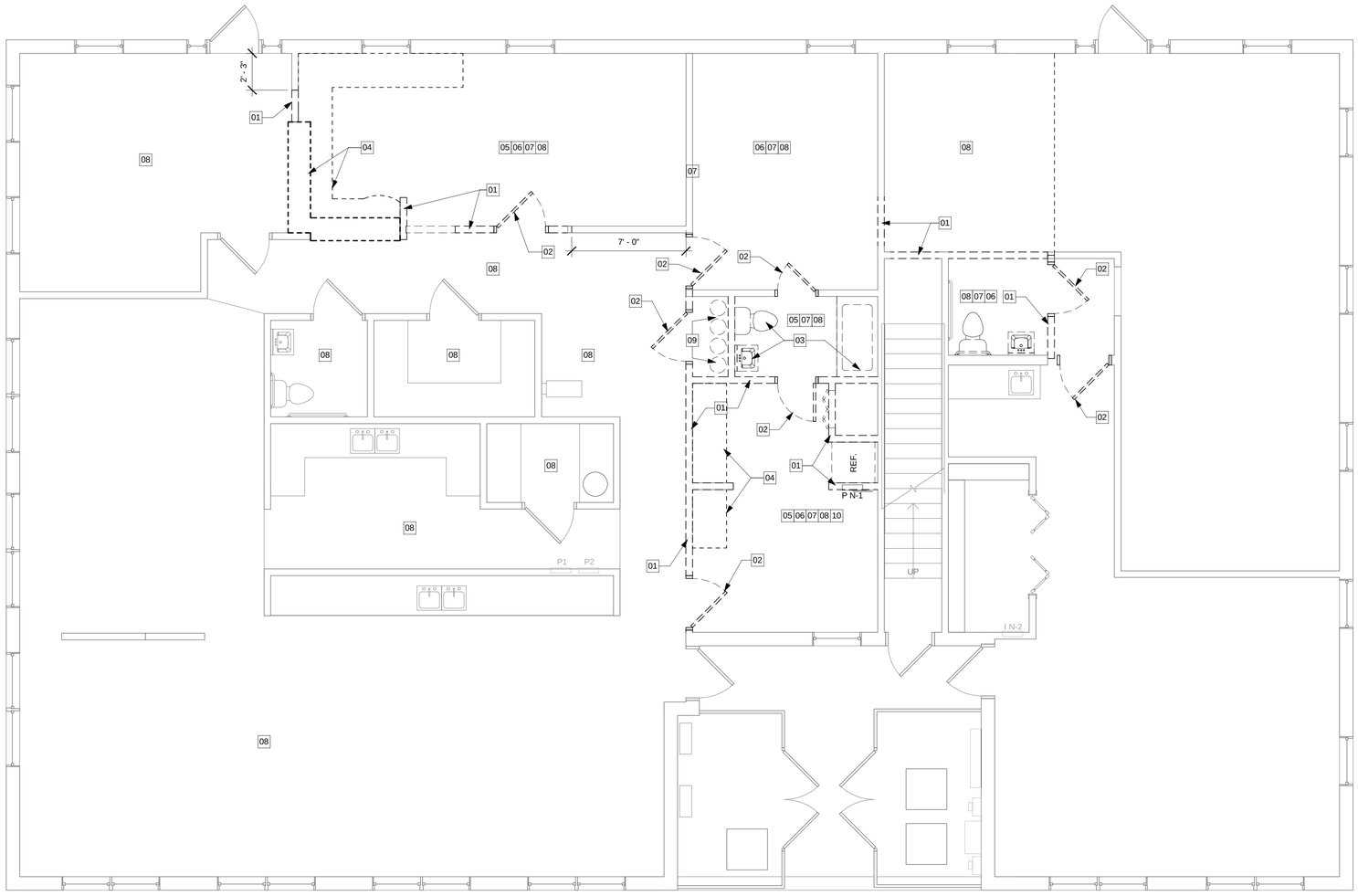

DEMOLITION FLOOR PLAN
1/4" = 1'-0"

1

DEMOLITION FLOOR PLAN KEYNOTES

1. THIS AND ANY OTHER DEMOLITION DRAWINGS ARE NOT INTENDED TO BE ALL INCLUSIVE AND NOT TO DEFINE THE SCOPE OF WORK OF ALL DEMOLITION WORK REQUIRED FOR THIS LOCATION. DEMOLITION DRAWINGS ARE SHOWN ONLY TO AID THE CONTRATOR IN PREPARING THE BID AND PERFORMING
2. GENERAL CONTRACTOR TO DISPOSE OF ALL WASTE DURING DEMOLITION IN ACCORDANCE WITH ALL APPLICABLE JURISDICTIONS, CODES AND ORDINANCES.
3. G.C. TO INSPECT EXISTING CONDITIONS OF ALL EXISTING TO REMAIN WALLS, FLOORS, AND ROOF. PATCH AND REPAIR PRIOR TO INSTALLATION OF NEW MATERIALS/FINISHES.
4. THE G.C. SHALL REVIEW ALL DOCUMENTS, VERIFY ALL DIMENSIONS, AND CONFIRM THAT THE WORK CAN BE BUILT AS SHOWN. IN THE EVENT OF ANY CONFLICTS OR OMISSIONS WITHIN THE DRAWINGS, G.C. TO CONTACT TENANT'S PROJECT MANAGER & ARCHITECT FOR CLARIFICATION PRIOR TO THE PERFORMANCE OF ANY WORK IN QUESTION.
5. UPON POSSESSION OF THE TENANT'S SPACE THE G.C. IS TO FIELD VERIFY ALL DIMENSIONS USING THE CONSTRUCTION DOCUMENTS. IF ANY DISCREPANCIES EXIST, G.C. TO MARK UP THE DRAWINGS TO REFLECT THE ACTUAL CONDITION, FORWARD THEM TO THE ARCHITECT WITHIN (3) DAYS FOR REVIEW AND CLARIFICATION AS REQUIRED.
6. UPON POSSESSSIONS OF THE TENANTS SPACE, THE G.C. IS TO FIELD VERIFY THE EXISTING CONDITIONS OF THE SPACE INCLUDING BUT NOT LIMITED TO SLAB CONDITION, AND ANY ISSUES THAT MAY EFFECT THE TENANT'S NEW FINISH FLOOR, CONDITION OF LANDLORD'S DEMISING WALL AND ANY OBSTRUCTIONS THAT MAY EXIST AND BE OF ISSUE. IF ANY ISSUES EXIST, CONTACT ARCHITECT AND TENANT'S PROJECT MANAGER.
7. G.C. TO PREVENT DAMAGE TO OTHER PORTION OF WORK DURING DEMOLITION.
8. PROTECT ALL EXISTING FINISHES AND ITEMS TO REMAIN, INCLUDING ALL BUILDING FINISHES WHERE SAID ITEMS ARE AFFECTED BY DEMOLITION, RELOCATION, ETC. G.C. TO PATCH, REPAIR, REFINISH, OR REPLACE ALL DAMAGED ITEMS AS REQUIRED TO MATCH EXISTING AT NO COST TO THE OWNER.
9. ALL EXISTING STRUCTURE IS TO BE PROPERLY SUPPORTED DURING DEMOLITION.
10. CONTRACTOR TO REMOVE AND RELOCATE ALL OUTLETS, SWITCHES, THERMOSTATS, HORNS, STROBES, AND PULL STATIONS PER OWNERS DIRECTION.

DEMOLITION GENERAL NOTES

01	REMOVE PARTITIONS IN THEIR ENTIRETY WHERE INDICATED, INCLUDING GYPSUM WALL BOARD, ALL ASSOCIATED STUDS, TRACK, FINISHES ETC.
02	G.C. TO REMOVE DOOR AND FRAME IN ITS ENTIRETY.
03	EXISTING PLUMBING EQUIPMENT/FIXTURES AND ACCESSORIES TO BE REMOVED. CAP PLUMBING.
04	G.C. TO REMOVE EXISTING MILLWORK IN ITS ENTIRETY.
05	REMOVE EXISTING ABANDONED RECEPTACLES, CIRCUITRY, AND ALL ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE U.O.N. (BY OTHERS).
06	CONVENIENCE RECEPTACLES TO REMAIN ON EXISTING WALLS THAT WILL REMAIN INTACT UNLESS OTHERWISE NOTED. RECEPTACLES MAY BE RELOCATED OR RE-CIRCUITED.
07	U.O.N. EXISTING WALLS TO REMAIN. PATCH AND REPAIR AS REQUIRED TO BRING TO A LIKE NEW CONDITION. CLEAN AND PREP FOR NEW FINISHES. REFER TO FINISH PLANS FOR ADDITIONAL INFORMATION.
08	PREPARE EXISTING FLOOR FOR INSTALLATION OF NEW VINYL FLOORING SYSTEM. REMOVE ANY/ALL EXISTING CARPET, TILE, ETC. TO ACCOMODATE NEW FLOORING.
09	PRESERVE, PROTECT AND STORE ALL EXISTING NO2 EQUIPMENT AND PREPARE FOR REUSE.
10	PRESERVE, PROTECT AND STORE ALL EXISTING APPLIANCES FOR REUSE FOLLOWING CONSTRUCTION PROCESS.

DEMOLITION FLOOR PLAN LEGEND

(E) EXISTING

EXISTING DOOR TO REMAIN

EXISTING DOOR TO BE REMOVED

DEMOLITION PARTITION

EXISTING PARTITION

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DRAWING NO.
AD101

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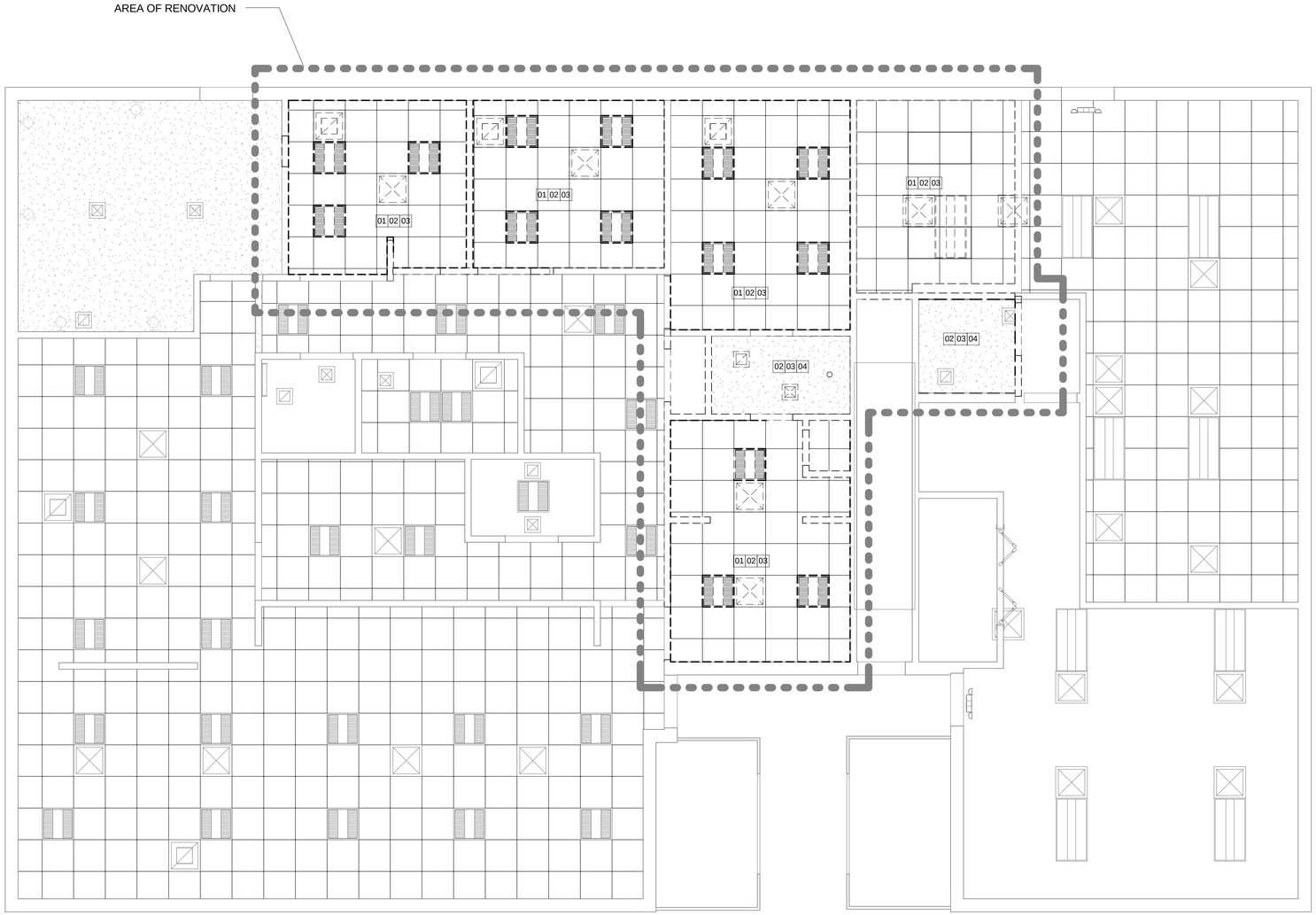

DEMOLITION REFLECTED CEILING PLAN
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1

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DEMOLITION RCP KEYNOTES

01	REMOVE EXISTING ACT CEILING SYSTEM IN ITS ENTIRETY
02	REMOVE EXISTING INTERIOR LIGHT FIXTURES IN THEIR ENTIRETY
03	REMOVE EXISTING SUPPLY DIFFUSERS, RETURN AIR GRILLES, EXHAUST FANS IN THEIR ENTIRETY. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
04	REMOVE GWB CEILING IN ITS ENTIRETY

DEMOLITION RCP LEGEND
1/4" = 1'-0"

EXISTING GWB CEILING TO BE REMOVED

EXISTING ACOUSTICAL CEILING TILE AND GRID SYSTEM TO BE REMOVED

EXISTING SUPPLY DIFFUSER TO BE REMOVED

EXISTING RETURN REGISTER TO BE REMOVED

EXISTING 2'x2' LIGHT FIXTURE TO BE REMOVED

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DEMOLITION RCP

DRAWING NO.

AD111

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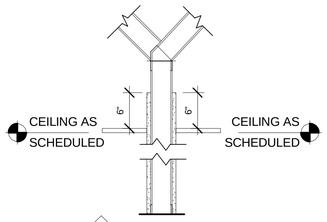
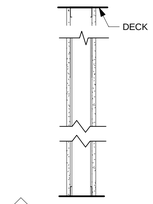


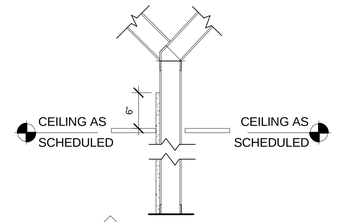
1 **WALL TYPE #1**

- 3 5/8"x 20 GA METAL STUD @ 16" O.C.
- EXTEND TO 6" ABOVE B.O.CEILING.
- BRACE TO STRUCTURE ABOVE W/ 3 5/8"x 20 GA METAL STUDS @ 32" O.C. AS NEEDED.
- (1) LAYER 5/8" GWB ON EACH SIDE.



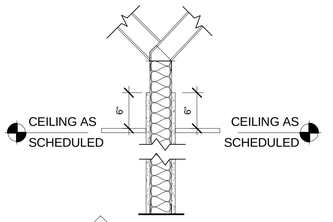
2 **WALL TYPE #2 - 1-HOUR FIRE RATED WALL UL DESIGN U465**

- 3 5/8"x 20 GA METAL STUD @ 16" O.C.
- EXTEND TO UNDERSIDE OF DECK ABOVE
- (1) LAYER 5/8" TYPE 'X' GWB ON EACH SIDE.



3 **WALL TYPE #3**

- 3 5/8"x 20 GA METAL STUD @ 16" O.C.
- EXTEND TO 6" ABOVE B.O.CEILING.
- BRACE TO STRUCTURE ABOVE W/ 3 5/8"x 20 GA METAL STUDS @ 32" O.C. AS NEEDED.
- (1) LAYER 5/8" GWB ON **ONE** SIDE.



4 **WALL TYPE #4**

- 3 5/8"x 20 GA METAL STUD @ 16" O.C. W/ SOUND BATT INSULATION
- EXTEND TO 6" ABOVE B.O.CEILING.
- BRACE TO STRUCTURE ABOVE W/ 3 5/8"x 20 GA METAL STUDS @ 32" O.C. AS NEEDED.
- (1) LAYER 5/8" GWB ON EACH SIDE.

4A W/ (1) LAYER 5/8" TYPE 'X' GWB ON EACH SIDE. (1-HOUR FIRE RATED WALL UL DESIGN U465)

4B W/6"x 20 GA METAL STUD @ 16" O.C. W/ (1) LAYER 5/8" TYPE 'X' GWB ON EACH SIDE. (1-HOUR FIRE RATED WALL UL DESIGN U465)

INTERIOR WALL TYPES

1" = 1'-0"

EQUIPMENT SCHEDULE			
CODE	DESCRIPTION	MODEL #	NOTES
A-01	PAPER TOWEL HOLDER	---	SUPPLIED BY OWNER, INSTALLED BY CONTRACTOR DURING SET-UP WEEK
A-02	X-RAY BUMBER GUARD	---	SUPPLIED BY OWNER, INSTALLED BY CONTRACTOR DURING SET-UP WEEK
A-03	LEAD APRON HANGER	---	SUPPLIED BY OWNER, INSTALLED BY CONTRACTOR DURING SET-UP WEEK
A-06	WIRE GLOVE BOX HOLDER	---	SUPPLIED BY OWNER, INSTALLED BY CONTRACTOR DURING SET-UP WEEK
A-07	COAT HANGER	---	SUPPLIED BY OWNER, INSTALLED BY CONTRACTOR DURING SET-UP WEEK
A-08	BIOHAZARD BAG RACK	---	MOUNTED ON INSIDE OF SINK CABINET DOOR. SUPPLIED BY OWNER, INSTALLED BY CONTRACTOR DURING SET-UP WEEK
~~C-02~~	~~REFRIGERATOR 18.2 CU. FT.~~	---	EXISTING TO REMAIN
~~C-03~~	~~MICROWAVE OVEN 1.5 CU. FT.~~	---	EXISTING TO REMAIN
~~C-04~~	~~COFFEE BREWER~~	---	EXISTING TO REMAIN
E-01	UTILITY CENTER	---	
E-02	12' O'CLOCK TREATMENT STATION	---	PROVIDED AND INSTALLED BY OWNER
E-10	DENTAL LIGHT	---	
F-07	ASSISTANT STOOL	BREWER #3145	BY OWNER
F-08	DOCTOR CHAIR	BREWER #3125 B	BY OWNER
F-09	OFFICE CHAIR	---	SUPPLIED AND INSTALLED BY OWNER
G-01	N20 MANIFOLD	---	EXISTING TO BE RELOCATED
G-02A	N20 CYLINDER	---	EXISTING TO BE RELOCATED
G-02B	O2 CYLINDER	---	EXISTING TO BE RELOCATED
G-03	CABINET MOUNT FLOWMETER	---	SUPPLIED AND INSTALLED BY PATTERSON DENTAL
P-01	PATIENT CHAIR	---	BY OWNER
P-02	CEILING ARM MOUNT	---	BLOCKING BY CONTRACTOR, PROVIDED AND INSTALLED BY OWNER
P-03	19" LED MONITOR	---	PROVIDED AND INSTALLED BY OWNER
V-06	CONTROL PANEL		3 SWITCH, SUPPLIED AND INSTALLED BY PATTERSON DENTAL, WIRING INSTALLED BY CONTRACTOR
X-02	INTRAORAL X-RAY SYSTEM	---	BLOCKING AND CONNECTION BY CONTRACTOR, X-RAY BY PATTERSON DENTAL

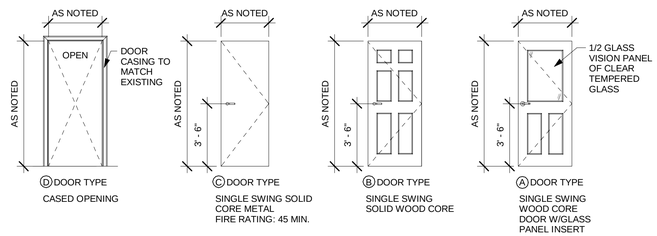
EQUIPMENT SCHEDULE

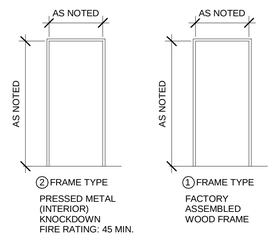
DOOR SCHEDULE										
ROOM NO.	LOCATION	DOOR NO.	DIMENSIONS			TYPE	FRAME TYPE	FIRE RATING	HARDWARE SET NO.	COMMENTS
			WIDTH	HEIGHT	THICKNESS					
101	OFFICE	101	3'-0"	7'-0"	1-3/4"	B	1	---	1	
103	BREAK ROOM	103	3'-0"	7'-0"	---	D	---	---	---	CASED OPENING
104	GAS	104	2'-8"	7'-0"	1-3/4"	C	2	45 MIN.	2	
105	RESTROOM	105	3'-0"	7'-0"	1-3/4"	B	1	---	3	
106	TREATMENT SUITE	106A	3'-0"	7'-0"	1-3/4"	A	1	---	1	
106	TREATMENT SUITE	106B	2'-8"	7'-0"	1-3/4"	A	1	---	1	

HARDWARE SET # 1			
QTY	**FUNCTION**	**SPECIFICATION**	**NOTES**
1	PASSAGE SET	CORBIN CL3810	FINISH TO MATCH EXISTING
3	HINGES	STANLEY F179 4-1/2" x 4-1/2"	FINISH TO MATCH EXISTING
1	WALL STOP	IVES WS407CCV	FINISH TO MATCH EXISTING
HARDWARE SET # 2			
1	LOCK SET	CORBIN CL3851	FINISH TO MATCH EXISTING
3	HINGES	STANLEY F179 4-1/2" x 4-1/2"	FINISH TO MATCH EXISTING
1	WALL STOP	IVES WS407CCV	FINISH TO MATCH EXISTING
1	DOOR CLOSER	CORBIN DC3210	FINISH TO MATCH EXISTING
HARDWARE SET # 3			
1	PRIVACY SET	CORBIN CL3820	FINISH TO MATCH EXISTING
3	HINGES	STANLEY F179 4-1/2" x 4-1/2"	FINISH TO MATCH EXISTING
1	DOOR CLOSER	CORBIN DC3210	FINISH TO MATCH EXISTING

FINISH SCHEDULE					
CODE	MATERIAL	LOCATION	MANUFACTURER	SERIES	NOTES
C-1	2x2 ACOUSTICAL CEILING TILE	REFER TO RCP ON SHEET A111	MATCH EXISTING ACT	MATCH EXISTING ACT	MATCH EXISTING ACT
PNT-1	PAINT	REFER TO SHEET A121	SHERWIN WILLIAMS	(SW7738) "CARGO PANTS"; EGGSHELL LATEX	
PNT-2	PAINT	REFER TO SHEET A121	SHERWIN WILLIAMS	(SW7739) "HERBAL WASH"; EGGSHELL LATEX	
WB-1	WOOD WALL BASE	REFER TO SHEET A121	---	---	WOOD BASE - SIZE AND PROFILE TO MATCH EXISTING / PRIMED AND PAINTED TO MATCH EXISTING TRIM / SUPPLIED BY OWNER AND INSTALLED BY...
LVT-1	LUXURY VINYL TILE	REFER TO SHEET A121	PATCRAFT	TIMBER GROVE 20 I325V 6"X48"- COLOR: JUNIPER 00535	PLANKS AND GLUE SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR

FINISH SCHEDULE





DOOR DETAILS

1/4" = 1'-0"

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CLIENT:
HEARTLAND DENTAL

CONSULTANT:
Dialectic ENGINEERING

PROJECT:
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REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

SEAL:

ISSUED FOR: 100% CONSTRUCTION DOCUMENTS
ISSUED DATE: 06.07.2019

DRAWN BY: JB

CHECKED BY: JN

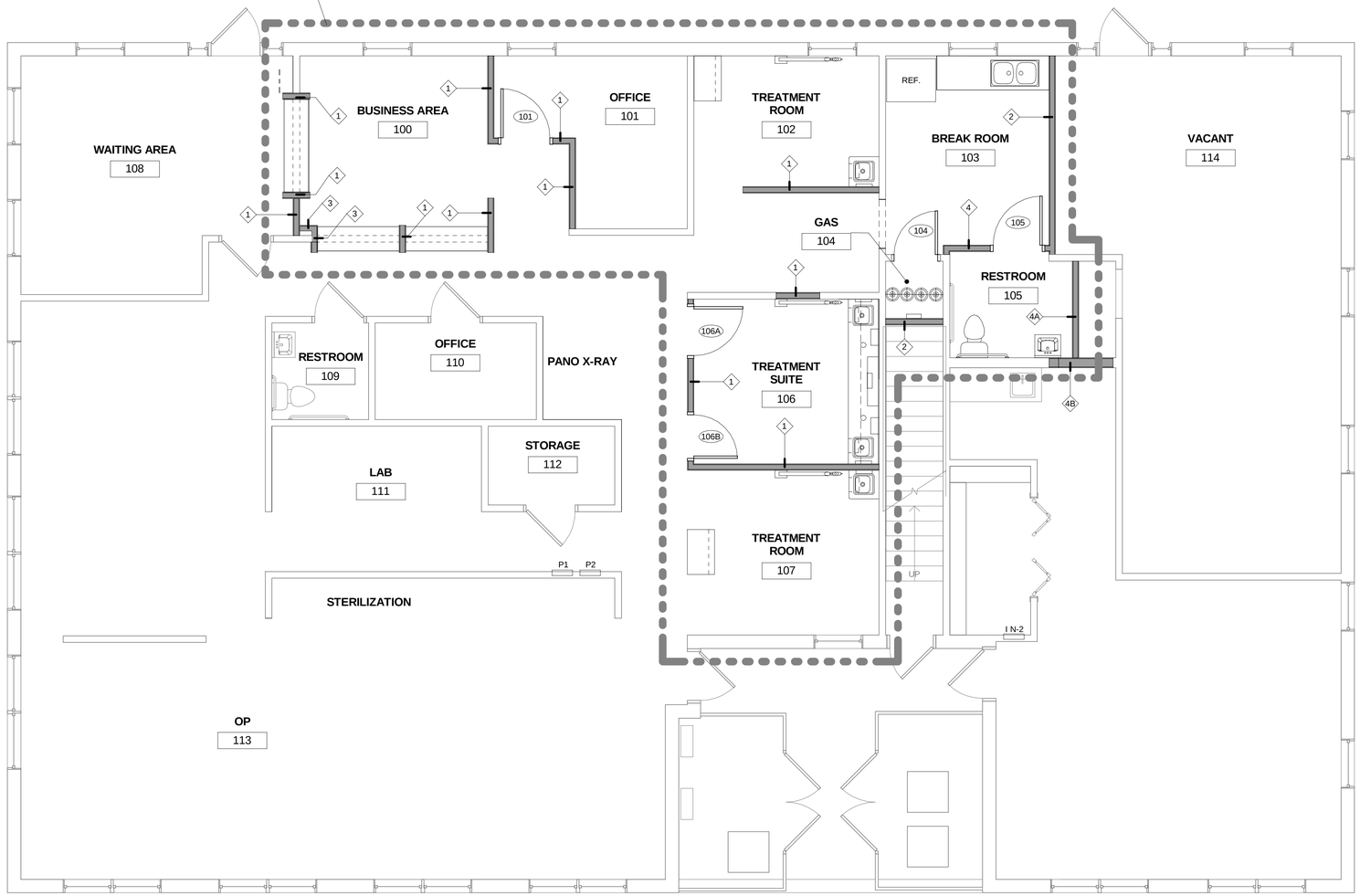
PROJECT NUMBER: 2319131

DRAWING NAME:
SCHEDULES AND DETAILS

DRAWING NO.
A100

Plot Date: 6/7/2019 4:06:37 PM
Dwg Filename: H:\Corporate\Heartland Dental\2319131_Family Oral Health_ Fort Pierce FL\Documentation\XREF\Heartland - Fort Pierce.rvt

NOTE:
REFER TO SHEETS A201-601 FOR ENLARGED PLANS AND INTERIOR ELEVATIONS



1. ALL WOOD BLOCKING MUST BE FIRE RATED. ANY EXISTING BLOCKING IN THE SPACE THAT IS NOT FIRE RATED MUST BE REMOVED. PROVIDE NOTE OR DETAILS ON THE PLANS.
2. MINIMUM DRYWALL THICKNESS IS 5/8"
3 OPPOSING FACE OF A WET WALL SHALL HAVE DURA-ROCK A MINIMUM OF 6" AFF.
4. ALL INTERIOR WALL STUDS SHALL BE A MINIMUM OF 20 GAUGE. STUD DEPTH SHALL BE DETERMINED BY BEARING REQUIREMENTS AND STUD LENGTH. DOUBLE 18 GAUGE STUDS SHALL BE INSTALLED ON EACH SIDE OF ALL DOOR OPENINGS AND AREAS THAT WILL SUPPORT SIGNS, CABINETS, SHELVES, ETC
5. EXTERIOR AND DEMISING WALLS TO BE PROVIDED BY LANDLORD.
6. G.C. TO COORDINATE ALL WORK THROUGHOUT CONSTRUCTION DRAWINGS. REFER TO APPROPRIATE SHEETS FOR ADDITIONAL INFORMATION REGARDING OTHER ASPECTS OF PROJECT.
7. APPROVED FIRE EXTINGUISHERS SHALL BE INSTALLED AS REQUIRED BY LOCAL AUTHORITY.
8. ALL DRYWALL CORNERS TO HAVE METAL CORNER BEADS.
9. G.C. SHALL SUPPLY & INSTALL PROPER AND ADEQUATE BLOCKING TO SUPPORT ALL TENANT AND VENDOR SUPPLIED ITEMS PRIOR TO CLOSING WALLS. GC SHALL COORDINATE ALL REQUIREMENTS WITH VENDOR.
10. GYPSUM BOARD TO RECEIVE LATEX PAINT SHALL RECEIVE ONE COAT VINYL PLASTIC SEALER PRIOR TO RECEIVING TWO COATS OF PAINT.
11. NO MATERIAL SUBSTITUTIONS TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY TENANT AND ARCHITECT.
12. G.C. TO COORDINATE THE DELIVERY, STORAGE AND INSTALLATION OF ALL EQUIPMENT.
13. G.C. TO VERIFY CONNECTION CLEARANCES OF ALL EQUIPMENT AND INFORM OWNER AND VENDOR OF ANY DISCREPANCIES.
14. G.C. TO PREVENT DAMAGE TO OTHER PORTIONS OF WORK DURING DEMOLITION.
15. G.C. TO TAKE SPECIAL CARE TO PROTECT LANDLORD PROPERTY & PROPERTY OF OTHER TENANTS. REPAIR ALL DAMAGE TO SATISFACTION OF PROPERTY OWNER.
16. REMOVE ALL ELECTRICAL AND MECHANICAL LINES NOT BEING REUSED. ALL UNUSED ELECTRICAL WIRING SHALL BE PULLED BACK TO THE MAIN SWITCH GEAR. ALL UNUSED PLUMBING LINES SHALL BE CAPPED IN THE WALL, OR BELOW FLOOR.
17. THE G.C. SHALL REVIEW ALL DOCUMENTS, VERIFY ALL DIMENSIONS, AND CONFIRM THAT THE WORK CAN BE BUILT AS SHOWN. IN THE EVENT OF ANY CONFLICTS OR OMISSIONS WITHIN THE DRAWINGS, G.C. TO CONTACT TENANT & ARCHITECT FOR CLARIFICATION PRIOR TO THE PERFORMANCE OF ANY WORK IN QUESTION.
18. G.C. IS TO FIELD VERIFY ALL DIMENSIONS USING THE CONSTRUCTION DOCUMENTS. IF ANY DISCREPANCIES EXIST, G.C. TO MARK UP THE DRAWINGS TO REFLECT THE ACTUAL CONDITION. FORWARD THEM TO THE ARCHITECT WITHIN (3) DAYS FOR REVIEW & CLARIFICATION AS REQUIRED.

DEMOLITION GENERAL NOTES

NOT IN SCOPE

EXISTING PARTITION TO REMAIN

PARTIAL HEIGHT PARTITION

NEW PARTITION

NEW DOOR AND FRAME (DOOR SWING 90)

EXISTING DOOR AND FRAME TO REMAIN (DOOR SWING 45)

PARTITION AND DOOR LEGEND

OVERALL FLOOR PLAN

1/4" = 1'-0"

1

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DRAWN BY: JB

CHECKED BY: JN

PROJECT NUMBER: 2319131

DRAWING NAME:

OVERALL FLOOR PLAN

DRAWING NO.

A101

Plot Date: 6/7/2019 4:06:37 PM
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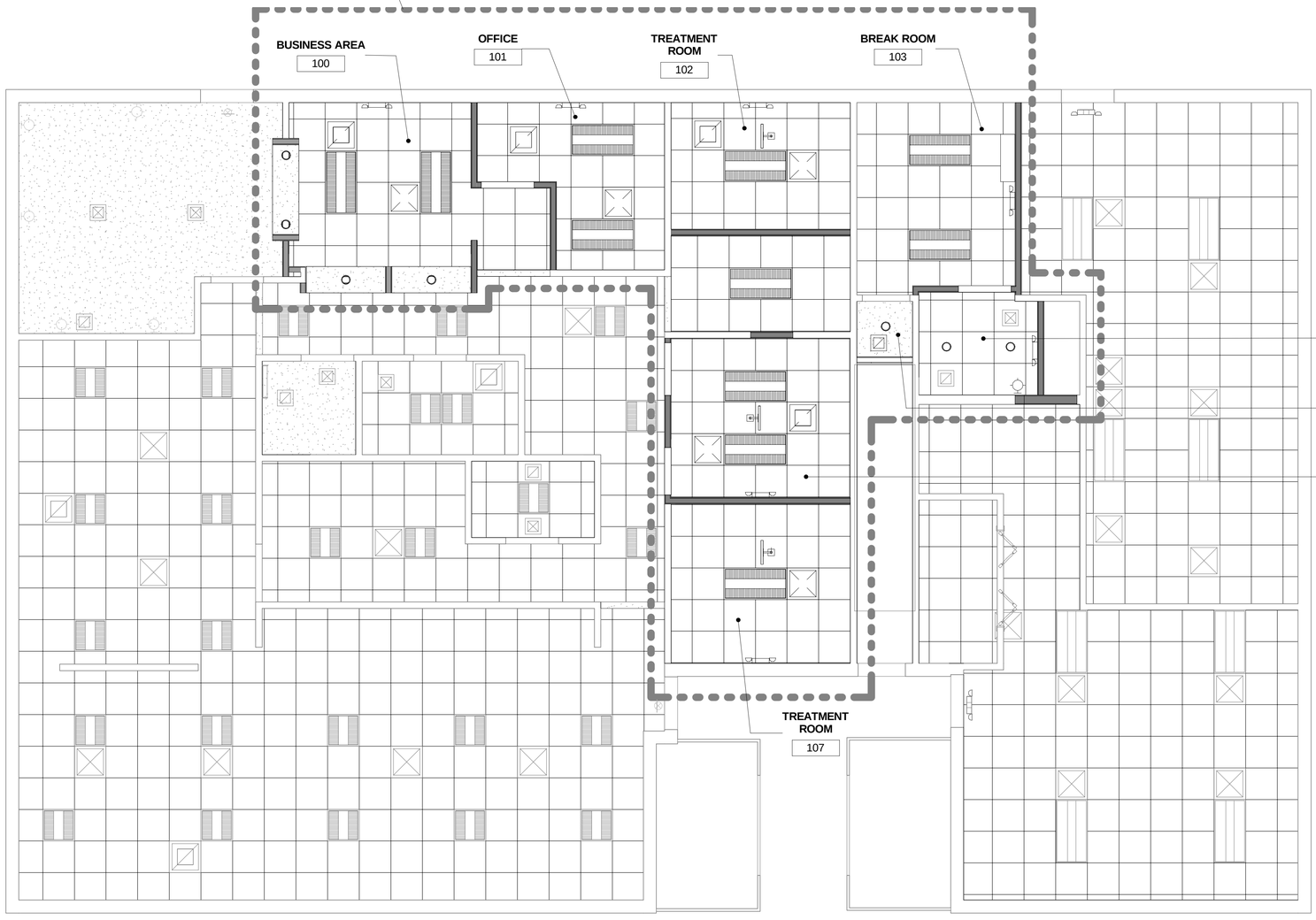
NOTES:
1. REFER TO SHEETS A201-601 FOR CEILING DETAILS AT NEW ROOMS.
2. ALL CEILINGS, FIXTURES, ETC. OUTSIDE OF THIS AREA ARE TO REMAIN.
3. REFER TO SHEET A100 FOR CEILING FIXTURE SCHEDULE.



1. GENERAL CONTRACTOR TO VERIFY EXISTING BUILDING EMERGENCY LIGHTING SYSTEM, PROVIDE BATTERY PACKS AS REQUIRED.
2. GENERAL CONTRACTOR TO VERIFY MANUFACTURER'S INSTALLATION REQUIREMENTS FOR LIGHT FIXTURES AND PROVIDE BRACING TO UPPER DECK AS REQUIRED.
3. G.C. TO COORDINATE LOCATION OF DIFFUSERS, RETURN AIR GRILLS, EXIT SIGNS, AIR HANDLING UNITS ETC.
4. ALL ELECTRICAL COVER PLATES TO BE SATIN WHITE FINISH.
5. CAREFULLY PROTECT ALL SPRINKLER PENDANTS FROM PAINT OVERSPRAY AS REQUIRED BY LOCAL FIRE MARSHALL.

REFLECTED CEILING PLAN NOTES

CEILING LEGEND

TYPE	GRAPHIC	DESCRIPTION	MANUFACTURER	MODEL	NOTES
A		6" RECESSED LED DOWNLIGHT LIGHT	LITHONIA	REAL 6C DSMW ESL 1000 L 3000K	SUPPLIED BY OWNER, INSTALLED BY G.C.
B		2X4 RECESSED LED LIGHT FIXTURE	INDY	S2X4BL-55-40-U-WH-3 / WHITE 3500K 53 INPUT WATTS	SUPPLIED BY OWNER, INSTALLED BY G.C.
EX		EXIT SIGN	***	***	***
EL		EMERGENCY LIGHT FIXTURE	DUAL-LITE	LZ SERIES	SUPPLIED AND INSTALLED BY G.C.
EF		EXHAUST FAN	...	...	REFER TO MECHANICAL DRAWINGS
RR		24" X 24" RETURN REGISTER	...	...	REFER TO MECHANICAL DRAWINGS
SR		24" X 24" SUPPLY REGISTER	...	...	REFER TO MECHANICAL DRAWINGS
C-1		2X2 ACOUSTICAL CEILING TILE	ARMSTRONG	CORTEGA #704	ANGLED TEGULAR / WHITE
C-2		GYPSUM WALLBOARD	SOURCE LOCALLY	...	...
C-3		GYPSUM WALLBOARD 1-HR FIRE RATED	SOURCE LOCALLY	...	1-HR FIRE RATED
J		WALL MOUNTED BATHROOM LIGHT FIXTURE	***	***	***

*** EXISTING TO REMAIN

OVERALL REFLECTED CEILING PLAN
1/4" = 1'-0"

1

REFLECTED CEILING PLAN LEGEND

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PROJECT NUMBER: 2319131

DRAWING NAME:
OVERALL REFLECTED CEILING PLAN

DRAWING NO.
A111

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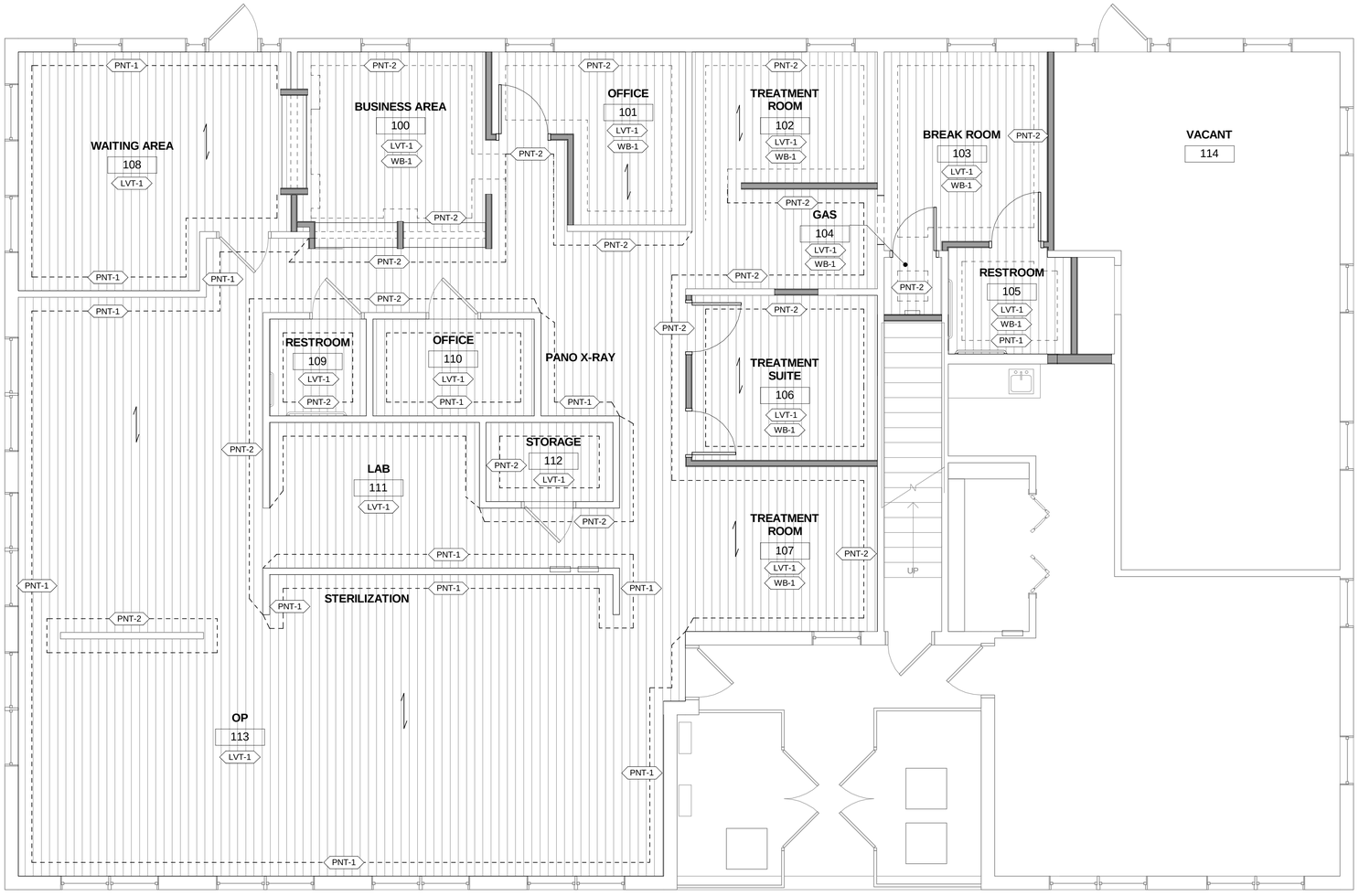
NOTE:
REFER TO SHEET A100 FOR FINISH SCHEDULE



1. NO MATERIAL SUBSTITUTIONS TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM OWNER OR THE ARCHITECT.
2. WIPE CLEAN ALL SURFACES WITH DAMP CLOTH.
3. EACH SUB CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER PROTECTION AGAINST DAMAGE TO FIXTURES, FURNITURE, ADJACENT FINISHED WORK, FLOORING, ETC. FROM HIS OWN WORK.
4. RETOUCH OR REFINISH SURFACES DAMAGED BY SUBSEQUENT WORK AS DIRECTED BY G.C. THE COST OF SUCH RESTORATION WORK SHALL BE BORNE BY SUB CONTRACTOR.
5. G.C. SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL THE FINISHES; WALLS, FLOOR AND CEILING PRIOR TO TURNOVER. G.C. SHALL TOUCH UP ALL CORNER BEADS, WALLS, CEILING AND FLOORING AS REQUIRED PRIOR TO TURNOVER AND ANY DAMAGE CAUSED BY OTHER TRADES INCLUDING MILLWORKER.
6. EXAMINE ALL SURFACES TO BE PAINTED UNDER THIS CONTRACT TO VERIFY THAT WORK OF OTHER TRADES IS IN SATISFACTORY CONDITION TO RECEIVE SPECIFIED FINISH.
7. G.C. SHALL CAULK BETWEEN MILLWORK AND GYPSUM BOARD WALLS IF REQUIRED TO CREATE A SMOOTH FINISH.
8. GYPSUM WALLBOARD SURFACES SHALL BE WIPED WITH A DAMP CLOTH JUST PRIOR TO APPLICATION OF THE FIRST COAT OF PAINT IN ORDER TO LAY FLAT ANY NAP WHICH MAY HAVE FORMED IN SANDING.
9. PAINTING SUBCONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OR REMOVAL & REINSTALLATION OF HARDWARE, SWITCH/OUTLET COVERS, ETC. TO PROTECT FROM PAINTING.
10. ALL PAINTED SURFACES TO RECEIVE LEVEL 4 DRYWALL FINISH.
11. AT COMPLETION OF PAINTING, ALL PAINT MATERIALS & EQUIPMENT SHALL BE REMOVED, ALL PAINT SPOTS REMOVED AND ALL AREAS THOROUGHLY CLEANED. ANY DIRT OR DEBRIS CAUSED BY WORK SHALL BE CLEANED UP AS WORK PROGRESSES.
12. ALL FINISHED FLOORING TO BE PROTECTED BY G.C. FOLLOWING INSTALLATION.
13. ALL DOORS & FRAMES ARE TO BE PAINTED AS SCHEDULED.
14. PAINT ALL DIFFUSERS, REGISTERS, GRILLES, AND ACCESS PANELS TO MATCH ADJACENT FINISH.
15. THICKEST FLOOR MATERIAL SHALL BE INSTALLED FIRST WITH THINNEST MATERIAL INSTALLED FLUSH. ENTIRE SUB-FLOOR THROUGHOUT TO BE FLAT, SMOOTH, LEVEL & READY TO RECEIVE NEW FLOORING.
16. PREPARE & CLEAN EXISTING SLAB AS REQUIRED TO RECEIVE NEW FINISH FLOORING MATERIALS AS SUGGESTED BY RESPECTIVE FLOORING MANUFACTURERS.
17. G.C. IS TO VERIFY THE EXISTING CONDITIONS OF THE SPACE INCLUDING BUT NOT LIMITED TO SLAB CONDITION AND ANY ISSUES THAT MAY EFFECT TENANT'S NEW FINISH FLOOR, CONDITION OF LANDLORD'S DEMISING WALL AND ANY OBSTRUCTIONS THAT MAY EXIST AND BE OF ISSUE. IF ANY ISSUES EXIST, CONTACT ARCHITECT AND TENANT'S PROJECT MANAGER.

FINISH FLOOR PLAN NOTES

FINISH PLAN KEY NOTES

CPT-1: CARPET

LVT-1: LUXURY VINYL TILE

LVT-2: LUXURY VINYL TILE

LVT-4: LUXURY VINYL TILE

SYMBOLS & TAGS

XXX-XX — WALL FINISH
XXX-XX — WALL BASE FINISH
XXX-XX — FLOOR FINISH

DIRECTION OF INSTALLATION

OVERALL FINISH FLOOR PLAN 1/4" = 1'-0"

1

FINISH FLOOR PLAN LEGEND 1/4" = 1'-0"

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ISSUED DATE: 06.07.2019

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CHECKED BY: CHECKER
PROJECT NUMBER: 2319131

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OVERALL FINISH FLOOR PLAN

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A121

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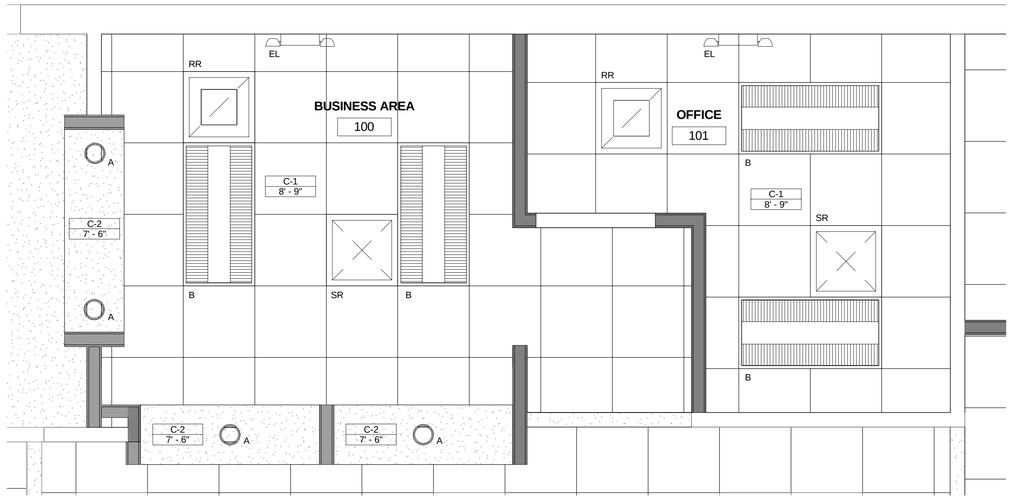
NOTE:

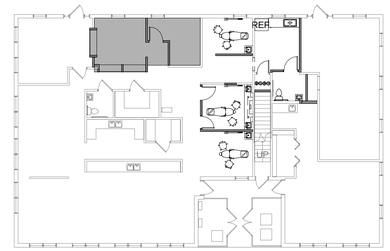
- REFER TO SHEET A100 FOR REFLECTED CEILING PLAN LEGEND



BUSINESS AREA/OFFICE REFLECTED CEILING PLAN

1/2" = 1'-0"

2



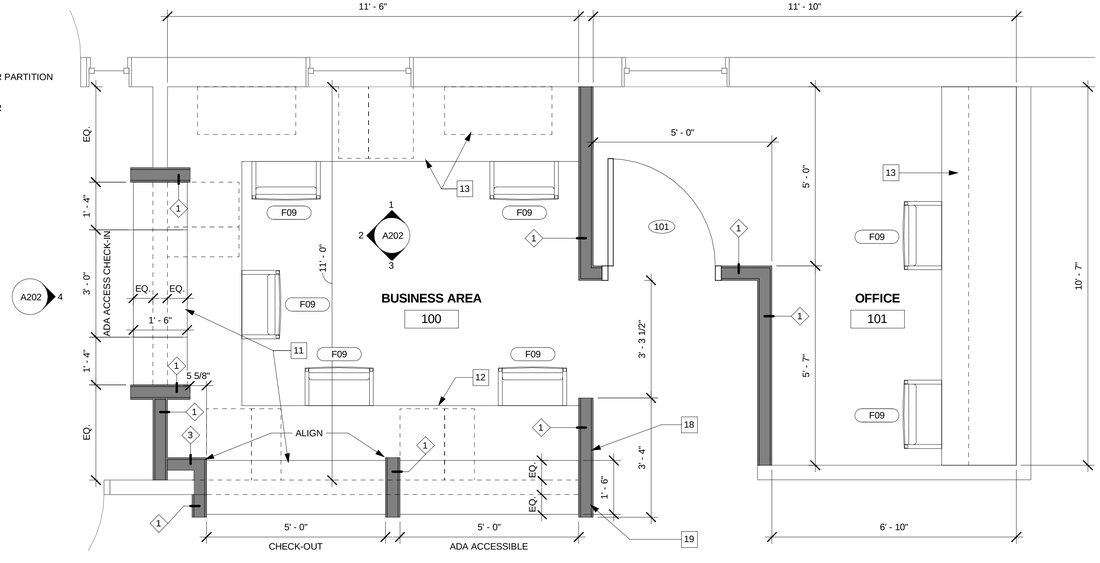
KEY PLAN - BUSINESS AREA/OFFICE

01	PROVIDE WOOD BLOCKING @ JOIST TO SUPPORT CEILING MOUNTED MONITOR (TYPICAL ABOVE ALL TREATMENT/HYGIENE & SUITE ROOMS)
02	HVAC SUPPLY TO BE LOCATED AT PATIENT'S FEET, TYP.
03	FULL CEILING TILE STARTING AT WALL OF PATIENT'S FEET.
04	WALL MOUNTED SPLIT SYSTEM AIR HANDLING UNIT. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
05	EXISTING RESTROOM HVAC SUPPLY AND EXHAUST REGISTERS TO BE REINSTALLED IN NEW ACT CEILING.
06	EXISTING WALL MOUNTED RESTROOM LIGHT FIXTURE TO BE REINSTALLED ABOVE CENTERLINE OF RELOCATED SINK.

REFLECTED CEILING PLAN KEYNOTES

NOTE:

- REFER TO SHEET A101 FOR PARTITION TYPES
- REFER TO SHEET A100 FOR EQUIPMENT SCHEDULE



BUSINESS AREA/OFFICE FLOOR PLAN

1/2" = 1'-0"

1

01	DENTAL CHAIR FLOOR MOUNTED UTILITY. CENTER IN ROOM. (SEE EQUIPMENT PLAN SCHEDULE SHT. A801.
02	34" X 21" DEEP X 21" WIDE PLASTIC LAMINATE BASE CABINET WITH SINGLE HAND SINK.
03	X-RAY MACHINE WITH CONTROL PANEL. (SEE EQUIPMENT PLAN & SCHEDULE)
04	20" DEEP COUNTER TOP @ 34" AFF WITH 8" DEEP COUNTER TOP 7" ABOVE THE 20" COUNTER TOP AND 16" DEEP WALL CABINETS. PROVIDE ELECTRICAL OUTLETS & EMPTY CONDUITS PER ELEVATION DRAWING.
05	TREATMENT SUITE CASEWORK
06	DOUBLE COMPARTMENT SINK. PROVIDE A GARBAGE DISPOSAL. (SEE PLUMBING DRAWINGS FOR SPECIFICATIONS)
07	45 MIN. METAL FIRE RATED DOOR AND FRAME
08	ALL EXISTING N20 TANKS, MANIFOLD AND ASSOCIATED EQUIPMENT TO BE REINSTALLED IN NEW GAS CLOSET LOCATION. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
09	PLASTIC LAMINATE BASE AND WALL CABINETS AS SHOWN WITH PLASTIC LAMINATE TOP 34" AFF. MAX HEIGHT. PROVIDE 14" DEEP WALL CABINETS
10	AIR VACUUM AND WATER SHUT OFF PROVIDED AND INSTALLED BY PATTERSON DENTAL / ELECTRICIAN TO PROVIDE DOUBLE GANG BOX AND CONDUIT
11	16" WIDE QUARTZ COUNTER TOP @ 46" AF.F. WITH WOOD STUD WALL FRAMING & DRYWALL BELOW. 16" WIDE QUARTZ COUNTER TOP @ 33 1/2" AF.F. WITH WOOD STUD FRAMING & DRYWALL BELOW AT HANDICAP ACCESSIBLE AREA.
12	25" DEEP PLASTIC LAMINATE COUNTER TOP @ 30" A.F.F.
13	25" DEEP PLASTIC LAMINATE COUNTER TOP @ 30" A.F.F. AND 16" DEEP WALL CABINETS.
14	RELOCATE EXISTING SINK. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
15	FURNISH AND INSTALL NEW 36" REAR GRAB BAR.
16	G.C. TO SUPPLY HANDICAP SIGNS WITH H.C. SYMBOL & RAISED BRAILLE @ 60" A.F.F. TO BRAILLE @ LATCH SIDE OF DOOR. BY BEST SYSTEMS OR EQUAL. PROVIDE MODEL #WP268ARB
17	34" TALL X 21" DEEP X 21" WIDE PLASTIC LAMINATE BASE CABINET WITH SINGLE HAND SINK.
18	ALL LIGHT SWITCHES FOR THE WAITING AND BUSINESS AREA TO BE AT THIS LOCATION.
19	EMPTY BOX FOR SPEAKER CONTROL WITH PULL STRING FOR DATA CABLE.
20	EXISTING BREAK ROOM APPLIANCES TO BE REINSTALLED IN NEW BREAK ROOM LOCATION.
21	EXISTING 1-HR RATED WOOD STUD WALL.
22	12/4 METAL DUCT DOWN TO 12" A.F.F. AND UP TO EXHAUST FAN.
23	FINISHED BACK PANEL IN FRONT OF EXISTING WINDOW.
24	PROFLOW PFSR332284 SINK WITH ELKAY A4175300002 FAUCET. REFER TO PLUMBING DRAWINGS FOR ADDITIOANAL INFORMATION.
25	SWITCH FOR GARBAGE DISPOSAL ABOVE COUNTER
26	PLASTIC LAMINATE TEAM LOCKERS. REFER TO INTERIOR ELEVATIONS ON SHEET A502.

FLOOR PLAN KEYNOTES

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CHECKED BY: JN

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DRAWING NAME:

BUSINESS AREA/OFFICE FLOOR PLAN AND RCP

DRAWING NO.

A201

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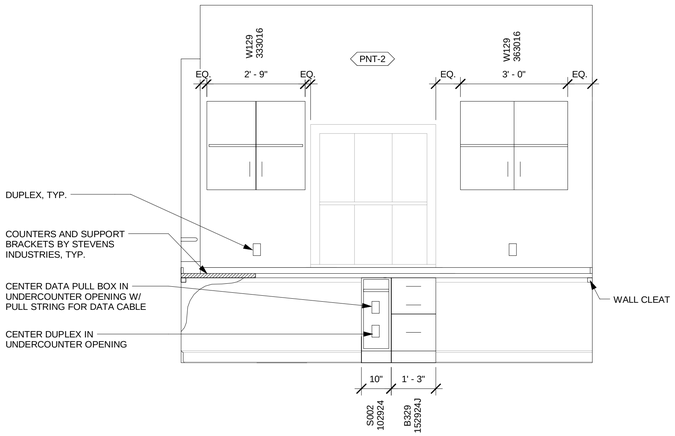
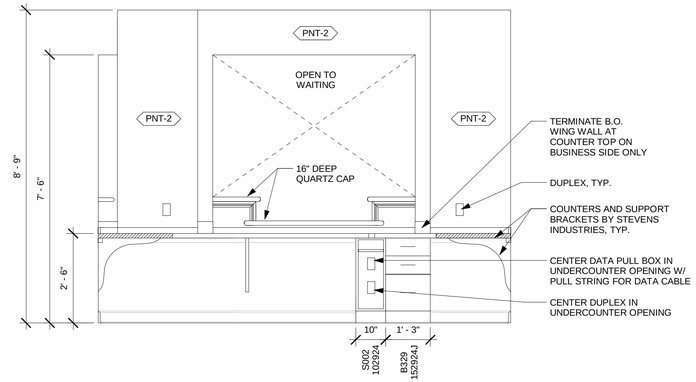
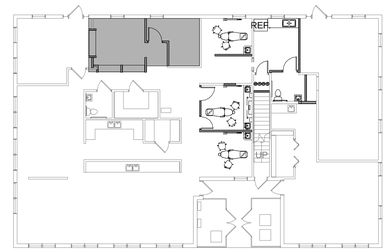
Dwg Filename: H:\Corporate\Heartland Dental\2319131_Family Oral Health_ Fort Pierce FL\Documentation\REF\Heartland - Fort Pierce.rvt



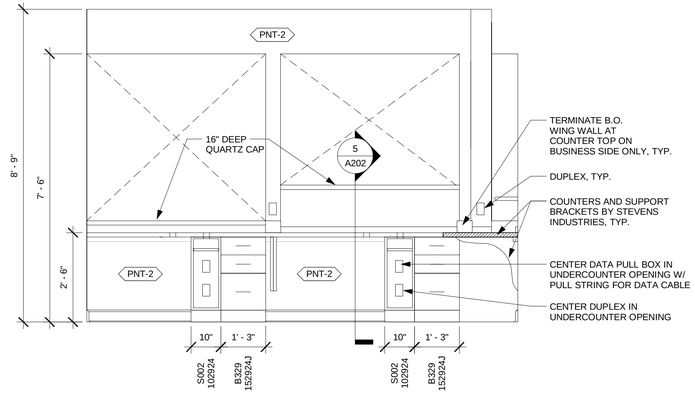
BUSINESS AREA - ELEVATION 1 1
1/2" = 1'-0"



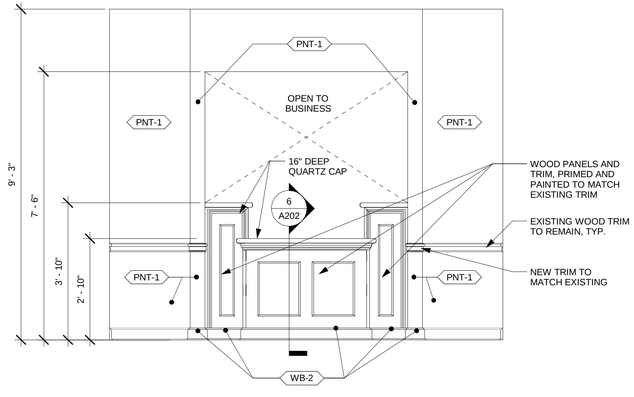
BUSINESS AREA - ELEVATION 2 2
1/2" = 1'-0"



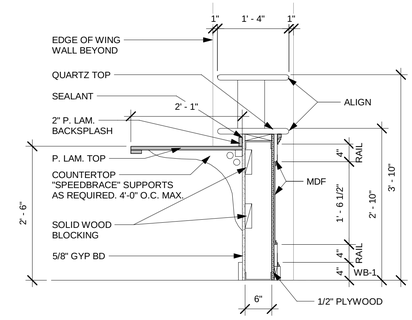
KEY PLAN - BUSINESS AREA/OFFICE



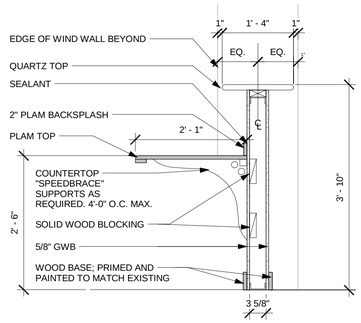
BUSINESS AREA - ELEVATION 3 3
1/2" = 1'-0"



BUSINESS AREA - ELEVATION FROM WAITING AREA SIDE 4
1/2" = 1'-0"



SECTION AT CHECK-IN COUNTER
3/4" = 1'-0" 6



TYPICAL SECTION AT CHECK-OUT 5
3/4" = 1'-0"

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DRAWN BY: JB

CHECKED BY: JN

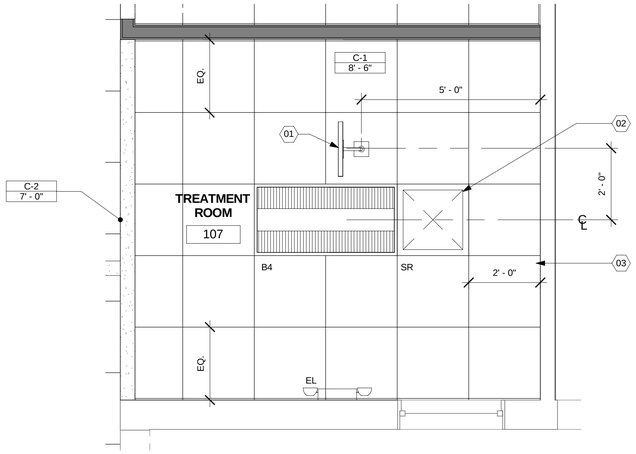
PROJECT NUMBER: 2319131

DRAWING NAME:
BUSINESS AREA/OFFICE INTERIOR ELEVATIONS

DRAWING NO.
A202

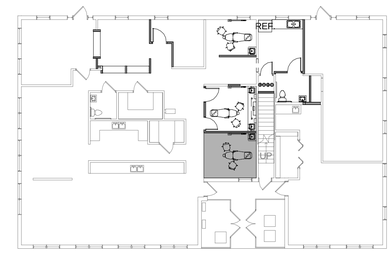
Plot Date: 6/7/2019 4:06:43 PM
Dwg Filename: H:\Corporate\Heartland Dental\2319131_Family Oral Health_ Fort Pierce FL\Documentation\XREF\Heartland - Fort Pierce.rvt

NOTE:
REFER TO SHEET A111 FOR REFLECTED CEILING PLAN LEGEND



TREATMENT ROOM 107 REFLECTED CEILING PLAN
1/2" = 1'-0"

2

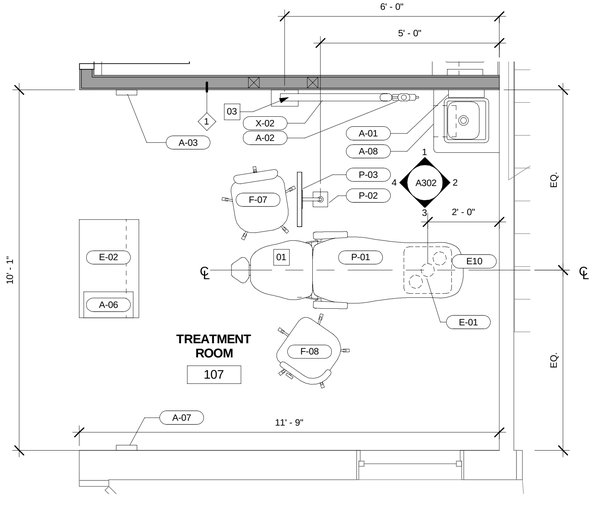


KEY PLAN - TREATMENT ROOM 107

01	PROVIDE WOOD BLOCKING @ JOIST TO SUPPORT CEILING MOUNTED MONITOR (TYPICAL ABOVE ALL TREATMENT/HYGIENE & SUITE ROOMS)
02	HVAC SUPPLY TO BE LOCATED AT PATIENT'S FEET, TYP.
03	FULL CEILING TILE STARTING AT WALL OF PATIENT'S FEET.
04	WALL MOUNTED SPLIT SYSTEM AIR HANDLING UNIT. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
05	EXISTING RESTROOM HVAC SUPPLY AND EXHAUST REGISTERS TO BE REINSTALLED IN NEW ACT CEILING.
06	EXISTING WALL MOUNTED RESTROOM LIGHT FIXTURE TO BE REINSTALLED ABOVE CENTERLINE OF RELOCATED SINK.

REFLECTED CEILING PLAN KEYNOTES

NOTE:
- REFER TO SHEET A100 FOR PARTITION TYPES
- REFER TO SHEET A100 FOR EQUIPMENT SCHEDULE



TREATMENT ROOM 107 FLOOR PLAN
1/2" = 1'-0"

1

01	DENTAL CHAIR FLOOR MOUNTED UTILITY. CENTER IN ROOM. (SEE EQUIPMENT PLAN SCHEDULE SHT. A801.
02	34" X 21" DEEP X 21" WIDE PLASTIC LAMINATE BASE CABINET WITH SINGLE HAND SINK.
03	X-RAY MACHINE WITH CONTROL PANEL. (SEE EQUIPMENT PLAN & SCHEDULE)
04	20" DEEP COUNTER TOP @ 34" AFF WITH 8" DEEP COUNTER TOP 7" ABOVE THE 20" COUNTER TOP AND 16" DEEP WALL CABINETS. PROVIDE ELECTRICAL OUTLETS & EMPTY CONDUITS PER ELEVATION DRAWING.
05	TREATMENT SUITE CASEWORK
06	DOUBLE COMPARTMENT SINK. PROVIDE A GARBAGE DISPOSAL. (SEE PLUMBING DRAWINGS FOR SPECIFICATIONS)
07	45 MIN. METAL FIRE RATED DOOR AND FRAME
08	ALL EXISTING N20 TANKS, MANIFOLD AND ASSOCIATED EQUIPMENT TO BE REINSTALLED IN NEW GAS CLOSET LOCATION. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
09	PLASTIC LAMINATE BASE AND WALL CABINETS AS SHOWN WITH PLASTIC LAMINATE TOP 34" AFF. MAX HEIGHT. PROVIDE 14" DEEP WALL CABINETS
10	AIR VACUUM AND WATER SHUT OFF PROVIDED AND INSTALLED BY PATTERSON DENTAL / ELECTRICIAN TO PROVIDE DOUBLE GANG BOX AND CONDUIT
11	16" WIDE QUARTZ COUNTER TOP @ 46" AF.F. WITH WOOD STUD WALL FRAMING & DRYWALL BELOW. 16" WIDE QUARTZ COUNTER TOP @ 33 1/2" AF.F. WITH WOOD STUD FRAMING & DRYWALL BELOW AT HANDICAP ACCESSIBLE AREA.
12	25" DEEP PLASTIC LAMINATE COUNTER TOP @ 30" A.F.F.
13	25" DEEP PLASTIC LAMINATE COUNTER TOP @ 30" A.F.F. AND 16" DEEP WALL CABINETS.
14	RELOCATE EXISTING SINK. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
15	FURNISH AND INSTALL NEW 36" REAR GRAB BAR.
16	G.C. TO SUPPLY HANDICAP SIGNS WITH H.C. SYMBOL & RAISED BRAILLE @ 60" A.F.F. TO BRAILLE @ LATCH SIDE OF DOOR. BY BEST SYSTEMS OR EQUAL. PROVIDE MODEL #WP268ARB
17	34" TALL X 21" DEEP X 21" WIDE PLASTIC LAMINATE BASE CABINET WITH SINGLE HAND SINK.
18	ALL LIGHT SWITCHES FOR THE WAITING AND BUSINESS AREA TO BE AT THIS LOCATION.
19	EMPTY BOX FOR SPEAKER CONTROL WITH PULL STRING FOR DATA CABLE.
20	EXISTING BREAK ROOM APPLIANCES TO BE REINSTALLED IN NEW BREAK ROOM LOCATION.
21	EXISTING 1-HR RATED WOOD STUD WALL.
22	12/4 METAL DUCT DOWN TO 12" A.F.F. AND UP TO EXHAUST FAN.
23	FINISHED BACK PANEL IN FRONT OF EXISTING WINDOW.
24	PROFLOW PFSR332284 SINK WITH ELKAY A4175300002 FAUCET. REFER TO PLUMBING DRAWINGS FOR ADDITIOANAL INFORMATION.
25	SWITCH FOR GARBAGE DISPOSAL ABOVE COUNTER
26	PLASTIC LAMINATE TEAM LOCKERS. REFER TO INTERIOR ELEVATIONS ON SHEET A502.

FLOOR PLAN KEYNOTES

ARCHITECT:
PHASE ZERO DESIGN
architects | interior designers
35 POND PARK ROAD, BAY 16
HINGHAM, MASSACHUSETTS 02043
PHONE: (781) 452-7121
FAX: (781) 875-3039
www.phasezerodesign.com

CLIENT:
HEARTLAND DENTAL

CONSULTANT:
Dialectic ENGINEERING

PROJECT:
FAMILY ORAL HEALTH ASSOCIATES
1405 S 25TH STREET B
FORT PIERCE, FL 34947

REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

SEAL:

ISSUED FOR: 100% CONSTRUCTION DOCUMENTS
ISSUED DATE: 06.07.2019

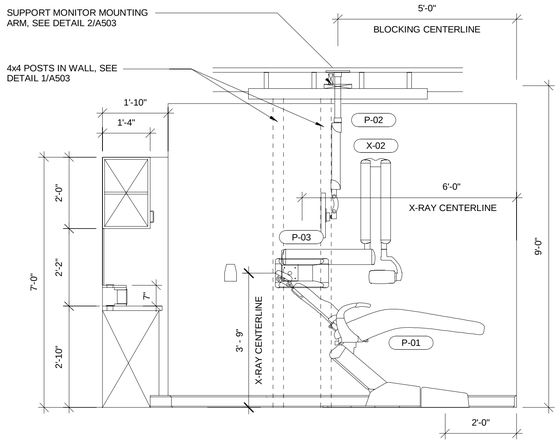
DRAWN BY: JB

CHECKED BY: JN

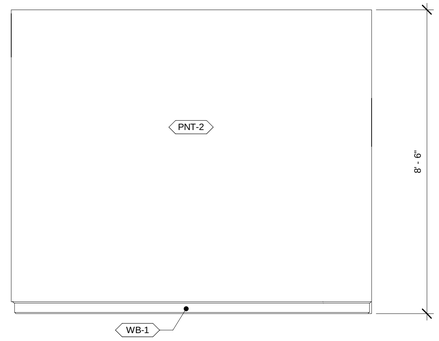
PROJECT NUMBER: 2319131

DRAWING NAME:
TREATMENT ROOM 107 FLOOR PLAN & REFLECTED CEILING PLAN

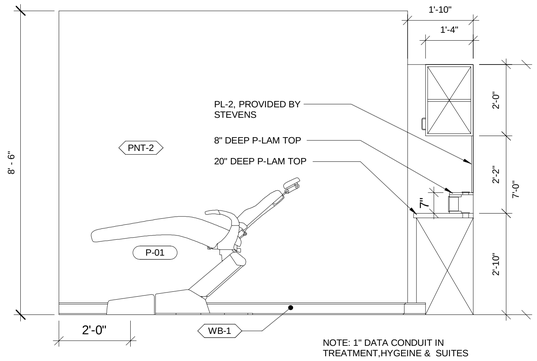
DRAWING NO.
A301



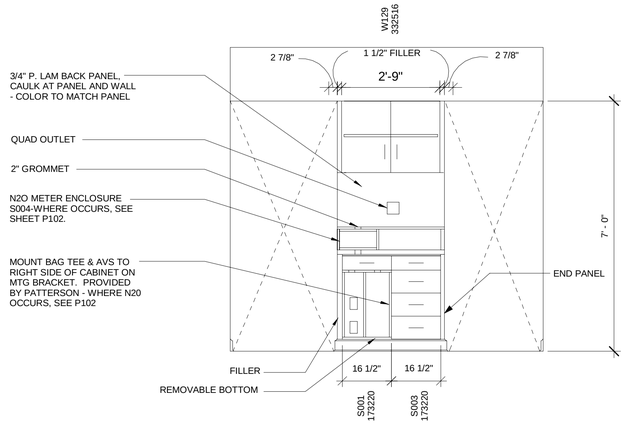
TREATMENT RM 107 - ELEVATION 1 1
1/2" = 1'-0"



TREATMENT RM 107 - ELEVATION 2 2
1/2" = 1'-0"

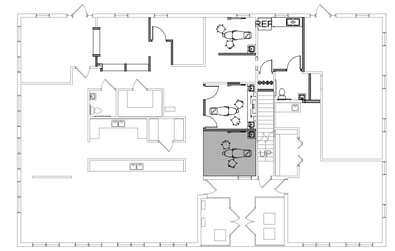


TREATMENT RM 107 - ELEVATION 3 3
1/2" = 1'-0"



NOTE:
REFER TO STEVENS INDUSTRIES CATALOG FOR CASEWORK INFORMATION

TREATMENT RM 107 - ELEVATION 4 4
1/2" = 1'-0"



KEY PLAN - TREATMENT ROOM 107

ARCHITECT:
PHASE ZERO DESIGN
architects | interior designers
35 POND PARK ROAD, BAY 16
HINGHAM, MASSACHUSETTS 02043
PHONE: (781) 452-7121
FAX: (781) 875-3039
www.phasezerodesign.com

CLIENT:
HEARTLAND DENTAL

CONSULTANT:
Dialectic ENGINEERING

PROJECT:
FAMILY ORAL HEALTH ASSOCIATES
1405 S 25TH STREET B
FORT PIERCE, FL 34947

REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

SEAL:

ISSUED FOR: 100% CONSTRUCTION DOCUMENTS
ISSUED DATE: 06.07.2019

DRAWN BY: JB

CHECKED BY: JN

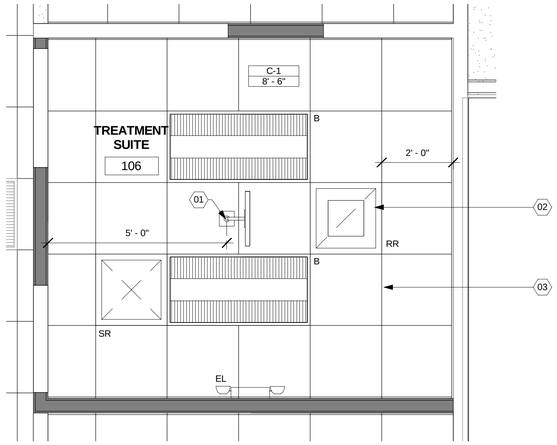
PROJECT NUMBER: 2319131

DRAWING NAME:
TREATMENT ROOM 107 INTERIOR ELEVATIONS

DRAWING NO.
A302

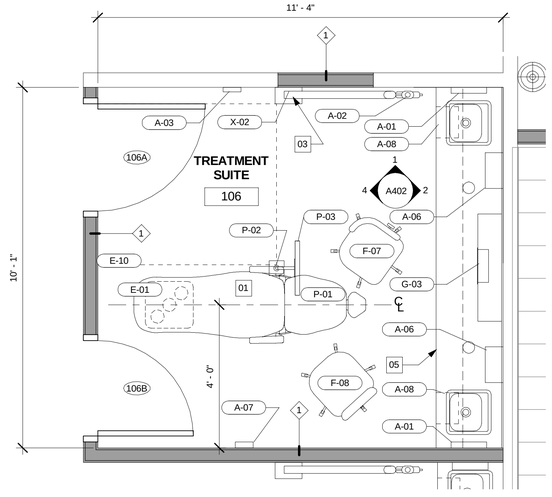
Plot Date: 6/7/2019 4:06:45 PM
Dwg Filename: H:\Corporate\Heartland Dental\2319131_Family Oral Health_ Fort Pierce FL\Documentation\XREF\Heartland - Fort Pierce.rvt

NOTE:
REFER TO SHEET A111 FOR REFLECTED CEILING PLAN LEGEND

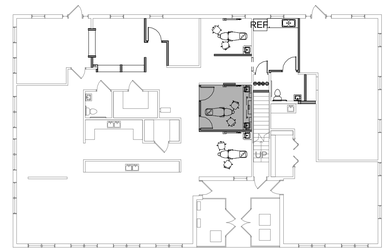


TREATMENT SUITE 106 REFLECTED CEILING PLAN
1/2" = 1'-0" | 2

NOTE:
- REFER TO SHEET A100 FOR PARTITION TYPES
- REFER TO SHEET A100 FOR EQUIPMENT SCHEDULE



TREATMENT SUITE 106 FLOOR PLAN
1/2" = 1'-0" | 1



KEY PLAN - TREATMENT SUITE 106

01	PROVIDE WOOD BLOCKING @ JOIST TO SUPPORT CEILING MOUNTED MONITOR (TYPICAL ABOVE ALL TREATMENT/HYGIENE & SUITE ROOMS)
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03	FULL CEILING TILE STARTING AT WALL OF PATIENT'S FEET.
04	WALL MOUNTED SPLIT SYSTEM AIR HANDLING UNIT. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
05	EXISTING RESTROOM HVAC SUPPLY AND EXHAUST REGISTERS TO BE REINSTALLED IN NEW ACT CEILING.
06	EXISTING WALL MOUNTED RESTROOM LIGHT FIXTURE TO BE REINSTALLED ABOVE CENTERLINE OF RELOCATED SINK.

REFLECTED CEILING PLAN KEYNOTES

01	DENTAL CHAIR FLOOR MOUNTED UTILITY. CENTER IN ROOM. (SEE EQUIPMENT PLAN SCHEDULE SHT. A801.
02	34" X 21" DEEP X 21" WIDE PLASTIC LAMINATE BASE CABINET WITH SINGLE HAND SINK.
03	X-RAY MACHINE WITH CONTROL PANEL. (SEE EQUIPMENT PLAN & SCHEDULE)
04	20" DEEP COUNTER TOP @ 34" AFF WITH 8" DEEP COUNTER TOP 7" ABOVE THE 20" COUNTER TOP AND 16" DEEP WALL CABINETS. PROVIDE ELECTRICAL OUTLETS & EMPTY CONDUITS PER ELEVATION DRAWING.
05	TREATMENT SUITE CASEWORK
06	DOUBLE COMPARTMENT SINK. PROVIDE A GARBAGE DISPOSAL. (SEE PLUMBING DRAWINGS FOR SPECIFICATIONS)
07	45 MIN. METAL FIRE RATED DOOR AND FRAME
08	ALL EXISTING N20 TANKS, MANIFOLD AND ASSOCIATED EQUIPMENT TO BE REINSTALLED IN NEW GAS CLOSET LOCATION. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
09	PLASTIC LAMINATE BASE AND WALL CABINETS AS SHOWN WITH PLASTIC LAMINATE TOP 34" AFF. MAX HEIGHT. PROVIDE 14" DEEP WALL CABINETS
10	AIR VACUUM AND WATER SHUT OFF PROVIDED AND INSTALLED BY PATTERSON DENTAL / ELECTRICIAN TO PROVIDE DOUBLE GANG BOX AND CONDUIT
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24	PROFLOW PFSR332284 SINK WITH ELKAY A4175300002 FAUCET. REFER TO PLUMBING DRAWINGS FOR ADDITIOANAL INFORMATION.
25	SWITCH FOR GARBAGE DISPOSAL ABOVE COUNTER
26	PLASTIC LAMINATE TEAM LOCKERS. REFER TO INTERIOR ELEVATIONS ON SHEET A502.

FLOOR PLAN KEYNOTES

ELECTRICAL
DUPLEX ON WALL BY EACH SIDE OF PATIENT, DUPLEX/DATA BELOW COUNTER FOR COMPUTER, 2- DUPLEX ABOVE COUNTER. CENTER ABOVE 4 DRAWER STACKS CEILING DUPLEX FOR MONITOR, EMPTY BOX FOR X-RAY TRIGGER SWITCH ON HALLWAY SIDE; REFER TO ELECTRICAL DRAWINGS.

MECHANICAL
SEE SUPPLY & RETURN LOCATIONS ON MECHANICAL DRAWINGS.

PLUMBING
PROFLOW BAR SINK #PFSR151562 W/PROFLOW FAUCET #PFWS6890CP / PROVIDED BY OWNER INSTALLED BY PLUMBER; REFER TO PLUMBING DRAWINGS.

F.F.E.
HD-14 SURGICAL GROUP, SEE STEVENS INDUSTRIES CATALOG
HD-7 WALL STORAGE AS INDICATED IN ELEVATION, SEE STEVENS INDUSTRIES CATALOG.

TREATMENT SUITE GENERAL NOTES

ARCHITECT:
PHASE ZERO DESIGN
architects | interior designers
35 POND PARK ROAD, BAY 16
HINGHAM, MASSACHUSETTS 02043
PHONE: (781) 452-7121
FAX: (781) 875-3039
www.phasezerodesign.com

CLIENT:
HEARTLAND DENTAL

CONSULTANT:
Dialectic ENGINEERING

PROJECT:
FAMILY ORAL HEALTH ASSOCIATES
1405 S 25TH STREET B
FORT PIERCE, FL 34947

REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

SEAL:

ISSUED FOR: 100% CONSTRUCTION DOCUMENTS
ISSUED DATE: 06.07.2019

DRAWN BY: JB

CHECKED BY: JN

PROJECT NUMBER: 2319131

DRAWING NAME:
TREATMENT SUITE 106 FLOOR PLAN & RCP

DRAWING NO.
A401

Plot Date: 6/7/2019 4:06:47 PM
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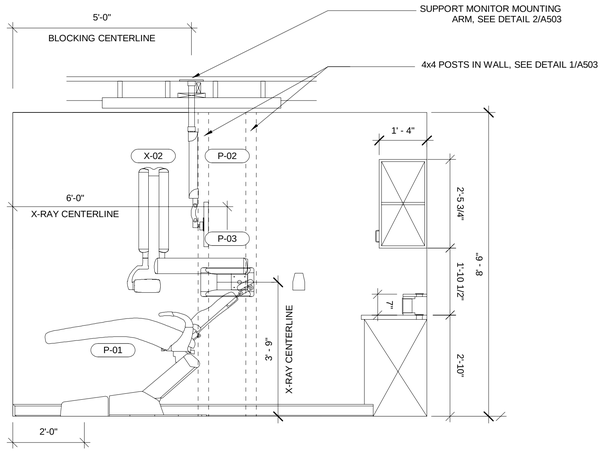
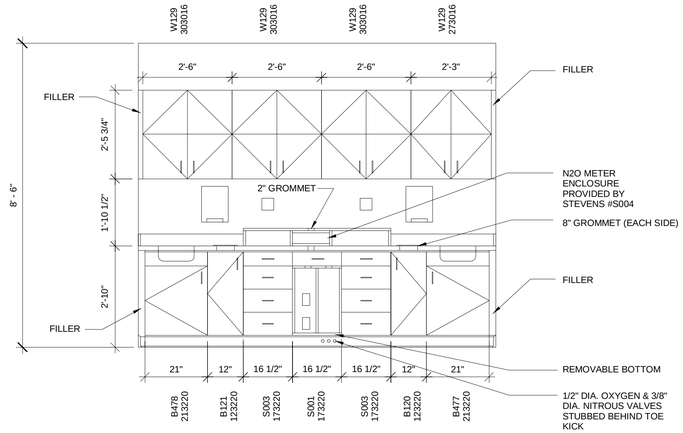


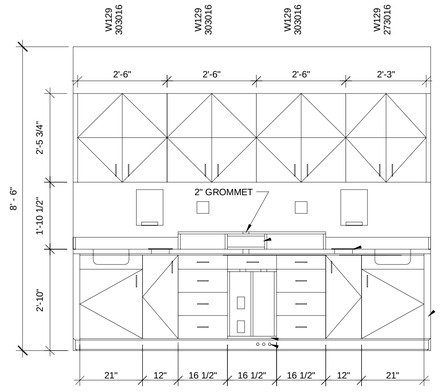
TREATMENT SUITE 106 - ELEVATION 1

1/2" = 1'-0" | 1



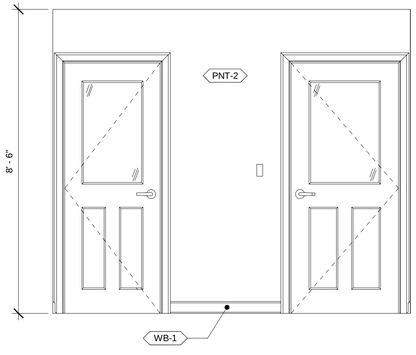
TREATMENT SUITE 106 - ELEVATION 2A

1/2" = 1'-0" | 2



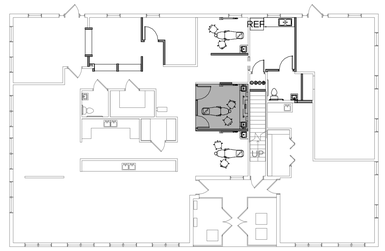
TREATMENT SUITE 106 - ELEVATION 2B

1/2" = 1'-0" | 3



TREATMENT SUITE 106 - ELEVATION 3

1/2" = 1'-0" | 4



KEY PLAN - TREATMENT SUITE 106

ARCHITECT:
PHASE ZERO DESIGN
architects | interior designers
35 POND PARK ROAD, BAY 16
HINGHAM, MASSACHUSETTS 02043
PHONE: (781) 452-7121
FAX: (781) 875-3039
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CLIENT:
HEARTLAND DENTAL

CONSULTANT:
Dialectic ENGINEERING

FAMILY ORAL HEALTH ASSOCIATES

1405 S 25TH STREET B
FORT PIERCE, FL 34947

PROJECT:

REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

SEAL:

ISSUED FOR: 100% CONSTRUCTION DOCUMENTS
ISSUED DATE: 06.07.2019

DRAWN BY: JB

CHECKED BY: JN

PROJECT NUMBER: 2319131

DRAWING NAME:

TREATMENT SUITE 106 INTERIOR ELEVATIONS

DRAWING NO.

A402

Plot Date: 6/7/2019 4:06:48 PM
Dwg Filename: H:\Corporate\Heartland Dental\2319131_Family Oral Health_ Fort Pierce FL\Documentation\XREF\Heartland - Fort Pierce.rvt

NOTE:
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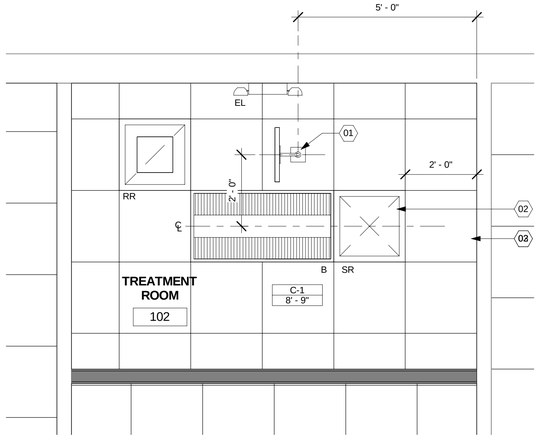
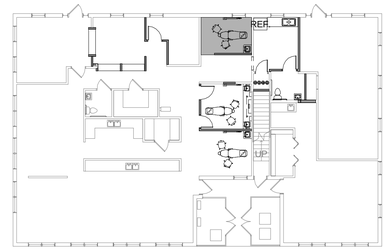


TREATMENT ROOM 102 RCP PLAN 2
1/2" = 1'-0"



KEY PLAN - TREATMENT ROOM 102

REFLECTED CEILING PLAN KEYNOTES

01	PROVIDE WOOD BLOCKING @ JOIST TO SUPPORT CEILING MOUNTED MONITOR (TYPICAL ABOVE ALL TREATMENT/HYGIENE & SUITE ROOMS)
02	HVAC SUPPLY TO BE LOCATED AT PATIENT'S FEET, TYP.
03	FULL CEILING TILE STARTING AT WALL OF PATIENT'S FEET.
04	WALL MOUNTED SPLIT SYSTEM AIR HANDLING UNIT. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
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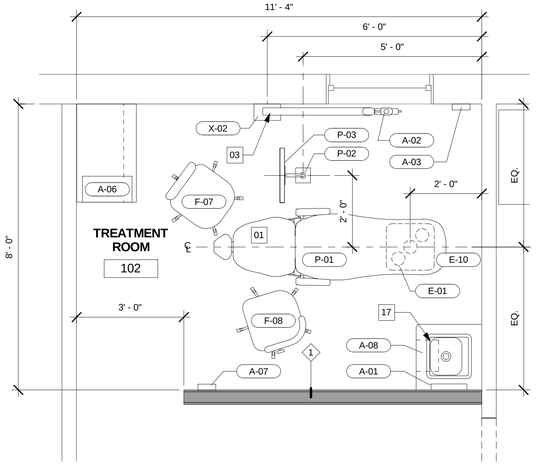
NOTE:
- REFER TO SHEET A100 FOR PARTITION TYPES
- REFER TO SHEET A100 FOR EQUIPMENT SCHEDULE



TREATMENT ROOM 102 FLOOR PLAN 1
1/2" = 1'-0"

FLOOR PLAN KEYNOTES

01	DENTAL CHAIR FLOOR MOUNTED UTILITY. CENTER IN ROOM. (SEE EQUIPMENT PLAN SCHEDULE SHT. A801.
02	34" X 21" DEEP X 21" WIDE PLASTIC LAMINATE BASE CABINET WITH SINGLE HAND SINK.
03	X-RAY MACHINE WITH CONTROL PANEL. (SEE EQUIPMENT PLAN & SCHEDULE)
04	20" DEEP COUNTER TOP @ 34" AFF WITH 8" DEEP COUNTER TOP 7" ABOVE THE 20" COUNTER TOP AND 16" DEEP WALL CABINETS. PROVIDE ELECTRICAL OUTLETS & EMPTY CONDUITS PER ELEVATION DRAWING.
05	TREATMENT SUITE CASEWORK
06	DOUBLE COMPARTMENT SINK. PROVIDE A GARBAGE DISPOSAL. (SEE PLUMBING DRAWINGS FOR SPECIFICATIONS)
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08	ALL EXISTING N20 TANKS, MANIFOLD AND ASSOCIATED EQUIPMENT TO BE REINSTALLED IN NEW GAS CLOSET LOCATION. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
09	PLASTIC LAMINATE BASE AND WALL CABINETS AS SHOWN WITH PLASTIC LAMINATE TOP 34" AFF. MAX HEIGHT. PROVIDE 14" DEEP WALL CABINETS
10	AIR VACUUM AND WATER SHUT OFF PROVIDED AND INSTALLED BY PATTERSON DENTAL / ELECTRICIAN TO PROVIDE DOUBLE GANG BOX AND CONDUIT
11	16" WIDE QUARTZ COUNTER TOP @ 46" AF.F. WITH WOOD STUD WALL FRAMING & DRYWALL BELOW. 16" WIDE QUARTZ COUNTER TOP @ 33 1/2" AF.F. WITH WOOD STUD FRAMING & DRYWALL BELOW AT HANDICAP ACCESSIBLE AREA.
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13	25" DEEP PLASTIC LAMINATE COUNTER TOP @ 30" A.F.F. AND 16" DEEP WALL CABINETS.
14	RELOCATE EXISTING SINK. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
15	FURNISH AND INSTALL NEW 36" REAR GRAB BAR.
16	G.C. TO SUPPLY HANDICAP SIGNS WITH H.C. SYMBOL & RAISED BRAILLE @ 60" A.F.F. TO BRAILLE @ LATCH SIDE OF DOOR. BY BEST SYSTEMS OR EQUAL. PROVIDE MODEL #WP268ARB
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22	12/4 METAL DUCT DOWN TO 12" A.F.F. AND UP TO EXHAUST FAN.
23	FINISHED BACK PANEL IN FRONT OF EXISTING WINDOW.
24	PROFLOW PFSR332284 SINK WITH ELKAY A4175300002 FAUCET. REFER TO PLUMBING DRAWINGS FOR ADDITIOANAL INFORMATION.
25	SWITCH FOR GARBAGE DISPOSAL ABOVE COUNTER
26	PLASTIC LAMINATE TEAM LOCKERS. REFER TO INTERIOR ELEVATIONS ON SHEET A502.

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REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

SEAL:

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CHECKED BY: JN

PROJECT NUMBER: 2319131

DRAWING NAME:
TREATMENT ROOM FLOOR PLAN & REFLECTED CEILING PLAN

DRAWING NO.
A501

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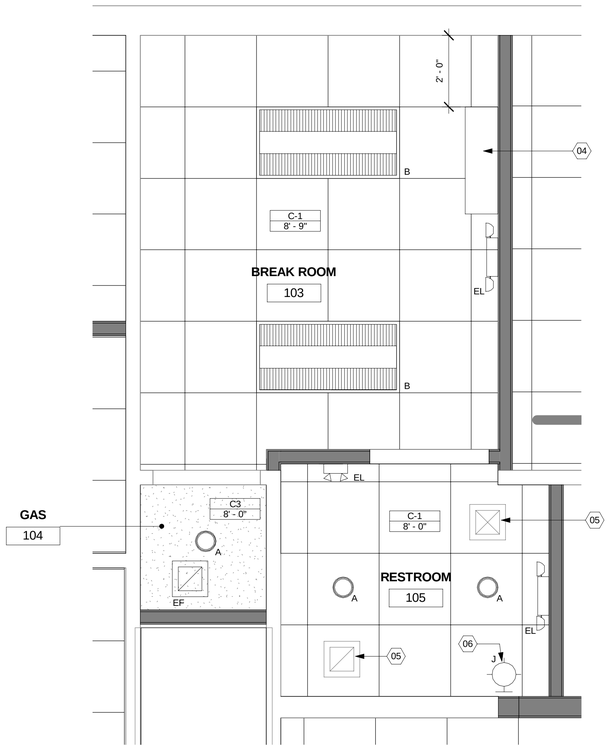
Dwg Filename: H:\Corporate\Heartland Dental\2319131_Family Oral Health_ Fort Pierce FL\Documentation\VREP\Heartland - Fort Pierce.rvt

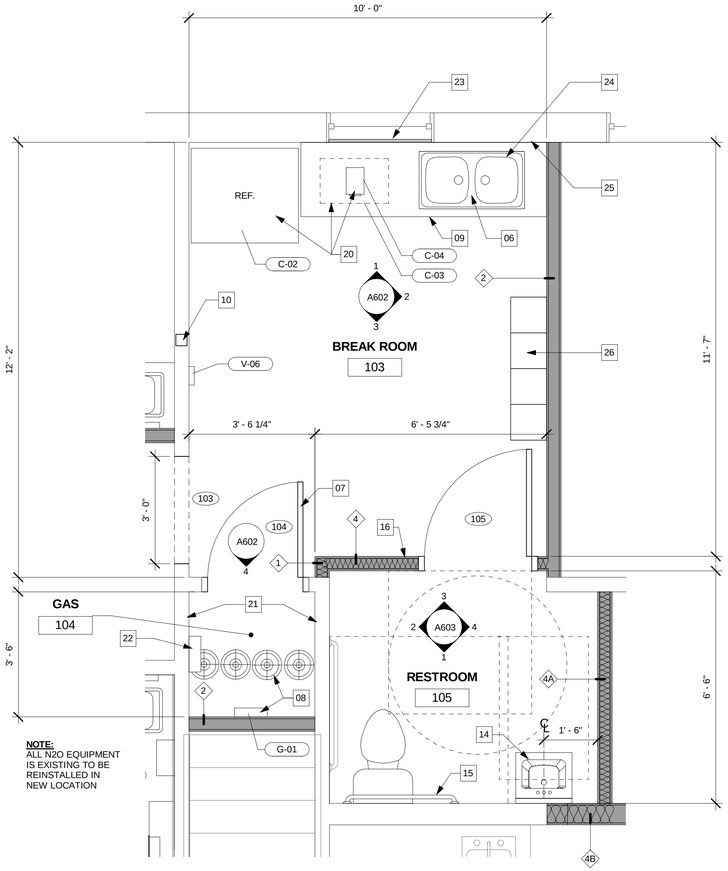
NOTE:
REFER TO SHEET A111 FOR REFLECTED CEILING PLAN LEGEND



BREAK ROOM/RESTROOM/GAS REFLECTED CEILING PLAN
1/2" = 1'-0"

2

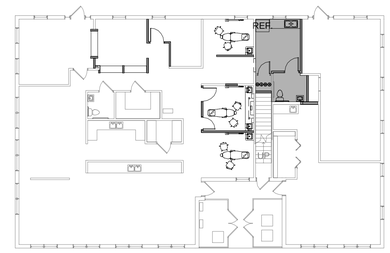
NOTE:
- REFER TO SHEET A100 FOR PARTITION TYPES
- REFER TO SHEET A100 FOR EQUIPMENT SCHEDULE



NOTE:
ALL N2O EQUIPMENT IS EXISTING TO BE REINSTALLED IN NEW LOCATION

BREAK ROOM/RESTROOM/GAS FLOOR PLAN
1/2" = 1'-0"

1



KEY PLAN - BREAK ROOM/RESTROOM/GAS

01	PROVIDE WOOD BLOCKING @ JOIST TO SUPPORT CEILING MOUNTED MONITOR (TYPICAL ABOVE ALL TREATMENT/HYGIENE & SUITE ROOMS)
02	HVAC SUPPLY TO BE LOCATED AT PATIENT'S FEET, TYP.
03	FULL CEILING TILE STARTING AT WALL OF PATIENT'S FEET.
04	WALL MOUNTED SPLIT SYSTEM AIR HANDLING UNIT. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
05	EXISTING RESTROOM HVAC SUPPLY AND EXHAUST REGISTERS TO BE REINSTALLED IN NEW ACT CEILING.
06	EXISTING WALL MOUNTED RESTROOM LIGHT FIXTURE TO BE REINSTALLED ABOVE CENTERLINE OF RELOCATED SINK.

REFLECTED CEILING PLAN KEYNOTES

01	DENTAL CHAIR FLOOR MOUNTED UTILITY. CENTER IN ROOM. (SEE EQUIPMENT PLAN SCHEDULE SHT. A801.
02	34" X 21" DEEP X 21" WIDE PLASTIC LAMINATE BASE CABINET WITH SINGLE HAND SINK.
03	X-RAY MACHINE WITH CONTROL PANEL. (SEE EQUIPMENT PLAN & SCHEDULE)
04	20" DEEP COUNTER TOP @ 34" AFF WITH 8" DEEP COUNTER TOP 7" ABOVE THE 20" COUNTER TOP AND 16" DEEP WALL CABINETS. PROVIDE ELECTRICAL OUTLETS & EMPTY CONDUITS PER ELEVATION DRAWING.
05	TREATMENT SUITE CASEWORK
06	DOUBLE COMPARTMENT SINK. PROVIDE A GARBAGE DISPOSAL. (SEE PLUMBING DRAWINGS FOR SPECIFICATIONS)
07	45 MIN. METAL FIRE RATED DOOR AND FRAME
08	ALL EXISTING N20 TANKS, MANIFOLD AND ASSOCIATED EQUIPMENT TO BE REINSTALLED IN NEW GAS CLOSET LOCATION. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
09	PLASTIC LAMINATE BASE AND WALL CABINETS AS SHOWN WITH PLASTIC LAMINATE TOP 34" AFF. MAX HEIGHT. PROVIDE 14" DEEP WALL CABINETS
10	AIR VACUUM AND WATER SHUT OFF PROVIDED AND INSTALLED BY PATTERSON DENTAL / ELECTRICIAN TO PROVIDE DOUBLE GANG BOX AND CONDUIT
11	16" WIDE QUARTZ COUNTER TOP @ 46" AF.F. WITH WOOD STUD WALL FRAMING & DRYWALL BELOW. 16" WIDE QUARTZ COUNTER TOP @ 33 1/2" AF.F. WITH WOOD STUD FRAMING & DRYWALL BELOW AT HANDICAP ACCESSIBLE AREA.
12	25" DEEP PLASTIC LAMINATE COUNTER TOP @ 30" A.F.F.
13	25" DEEP PLASTIC LAMINATE COUNTER TOP @ 30" A.F.F. AND 16" DEEP WALL CABINETS.
14	RELOCATE EXISTING SINK. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
15	FURNISH AND INSTALL NEW 36" REAR GRAB BAR.
16	G.C. TO SUPPLY HANDICAP SIGNS WITH H.C. SYMBOL & RAISED BRAILLE @ 60" A.F.F. TO BRAILLE @ LATCH SIDE OF DOOR. BY BEST SYSTEMS OR EQUAL. PROVIDE MODEL #WP268ARB
17	34" TALL X 21" DEEP X 21" WIDE PLASTIC LAMINATE BASE CABINET WITH SINGLE HAND SINK.
18	ALL LIGHT SWITCHES FOR THE WAITING AND BUSINESS AREA TO BE AT THIS LOCATION.
19	EMPTY BOX FOR SPEAKER CONTROL WITH PULL STRING FOR DATA CABLE.
20	EXISTING BREAK ROOM APPLIANCES TO BE REINSTALLED IN NEW BREAK ROOM LOCATION.
21	EXISTING 1-HR RATED WOOD STUD WALL.
22	12/4 METAL DUCT DOWN TO 12" A.F.F. AND UP TO EXHAUST FAN.
23	FINISHED BACK PANEL IN FRONT OF EXISTING WINDOW.
24	PROFLOW PFSR332284 SINK WITH ELKAY A4175300002 FAUCET. REFER TO PLUMBING DRAWINGS FOR ADDITIOANAL INFORMATION.
25	SWITCH FOR GARBAGE DISPOSAL ABOVE COUNTER
26	PLASTIC LAMINATE TEAM LOCKERS. REFER TO INTERIOR ELEVATIONS ON SHEET A502.

FLOOR PLAN KEYNOTES

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CHECKED BY: JN

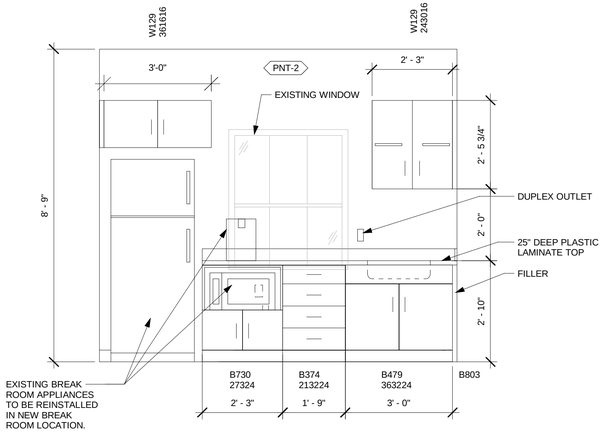
PROJECT NUMBER: 2319131

DRAWING NAME:

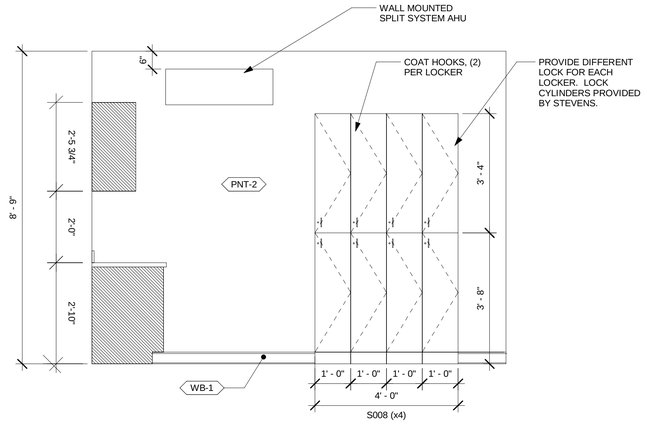
BREAK ROOM, RESTROOM AND GAS FLOOR PLAN & RCP

DRAWING NO.

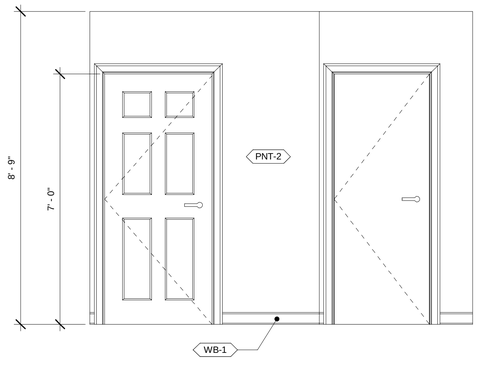
A601



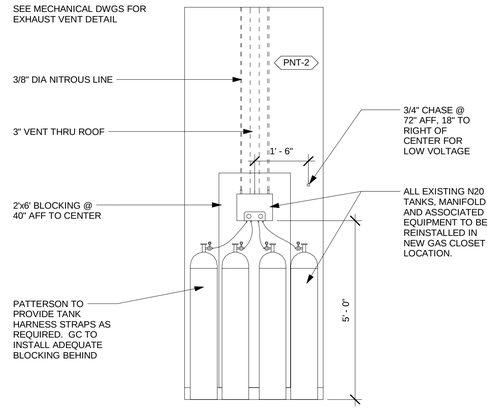
BREAK ROOM - ELEVATION 1
1/2" = 1'-0" | 1



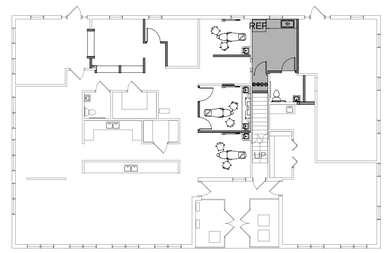
BREAK ROOM - ELEVATION 2
1/2" = 1'-0" | 2



BREAK ROOM - ELEVATION 3
1/2" = 1'-0" | 3



GAS CLOSET - ELEVATION
1/2" = 1'-0" | 4



KEY PLAN - BREAK ROOM/GAS

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BREAK ROOM AND GAS INTERIOR ELEVATIONS

DRAWING NO.

A602

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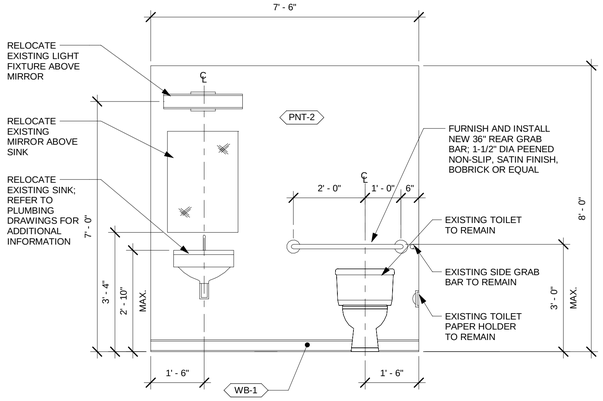
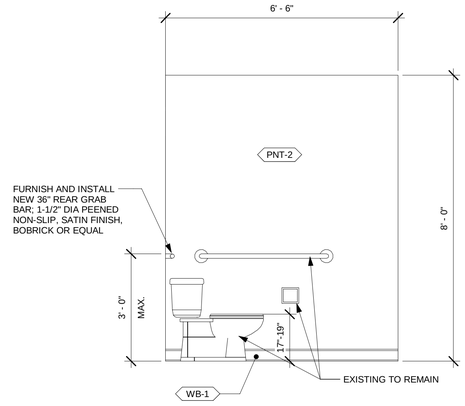


RESTROOM - ELEVATION 1 1
1/2" = 1'-0"



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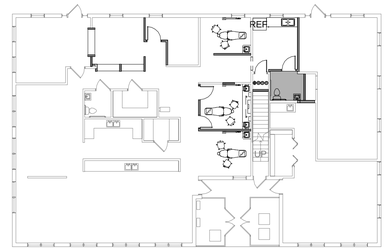
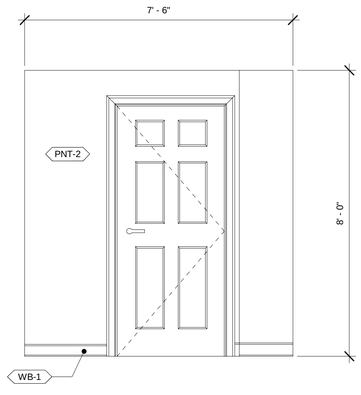


KEY PLAN - RESTROOM



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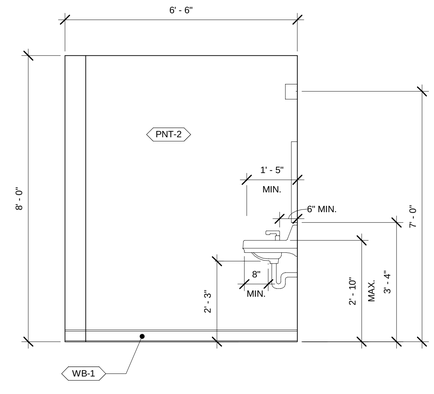
1/2" = 1'-0"



RESTROOM - ELEVATION 4 4
1/2" = 1'-0"

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DRAWING NAME:

RESTROOM INTERIOR ELEVATIONS

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DIVISION 16 ELECTRICAL SPECIFICATIONS

GENERAL PROVISIONS

A. THE PROVISIONS OF THE INSTRUCTION TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, ALTERNATES, ADDENDA, AND DIVISION 1 ARE A PART OF THIS SPECIFICATION. A REQUIREMENT OCCURRING IN ONE IS AS BINDING AS THOUGH OCCURRING IN ALL. THEY ARE INTENDED TO BE COMPLEMENTARY AND TO DESCRIBE AND PROVIDE FOR A COMPLETE WORK. CONTRACTORS AND SUB-CONTRACTORS SHALL EXAMINE SAME AS WELL AS OTHER DIVISIONS OF THE SPECIFICATIONS WHICH AFFECT WORK UNDER THIS DIVISION.

B. ELECTRICAL, ARCHITECTURAL, MECHANICAL, STRUCTURAL AND ALL OTHER DRAWINGS AS WELL AS THE SPECIFICATIONS ARE A PART OF THE CONTRACT DOCUMENTS.

C. MATERIAL OR LABOR WHICH IS NOT INDICATED ON THE DRAWINGS OR SPECIFICATION BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK (AND IS USUALLY INCLUDED IN SIMILAR WORK) SHALL BE PROVIDED. DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER. WORK SPECIFIED BUT NOT INDICATED, OR INDICATED BUT NOT SPECIFIED, SHALL BE PROVIDED AS THOUGH MENTIONED IN BOTH SPECIFICATIONS AND DRAWINGS.

D. EQUAL AND EQUIVALENT: SHALL BE UNDERSTOOD TO MEAN OF THE SAME QUANTITY, SIZE, NUMBER, VALUE, DEGREE, INTENSITY AND THE ITEMS ARE SIMILAR IN ALL RESPECTS. THE FINAL DECISION OF ACCEPTANCE OF THESE ITEMS WILL BE MADE BY THE ENGINEER. IT SHALL BE UNDERSTOOD THAT FOR ANY SPECIFIED ITEM ON THE DRAWINGS AND IN THE SPECIFICATIONS, THIS TERM SHALL APPLY.

E. DEFINITION OF SPECIAL TERMS SHALL BE INTERPRETED AS DESCRIBED HEREIN:
   1. "PROVIDE" MEANS: FURNISH/SUPPLY ALL LABOR, MATERIALS, EQUIPMENT AND SUPPLIES, INCLUDING TESTS AND INSPECTIONS, NECESSARY TO INSTALL AND PLACE COMPONENTS AND/OR SYSTEMS IN A SAFE AND COMPLETE OPERATING CONDITION THAT IS FULLY FUNCTIONING.
   2. "FURNISH" MEANS: SUPPLY AND/OR MAKE AVAILABLE AN ITEM, TO THE CONTRACTOR WHO WILL RECEIVE THE ITEM AND DO SOMETHING WITH IT. EXAMPLES INCLUDES OWNER FURNISHED ITEM OR ITEMS FURNISHED BY ANOTHER TRADE.
   3. "INSTALL" MEANS: PLACE, SET OR FIX AND CONNECT AN ITEM INTO A POSITION READY FOR USE. RECEIVE AN INDICATED ITEM FROM A SUPPLIER (INCLUDING OFF LOADING AND MOVING INTO PLACE WHEN REQUIRED) AND PROCEED TO INSTALL THE ITEM COMPLETE WITH ALL REQUIRED PARAMETERS TO MAKE A COMPLETE, SAFE AND OPERATIONAL SYSTEM INCORPORATING THE ITEM FURNISHED..

F. MATERIAL AND WORK REQUIRED UNDER THIS AND OTHER SECTIONS OF THIS DIVISION SUCH AS CONCRETE, MASONRY, REINFORCING STEEL AND PAINTING, ETC. REQUIRED AND/OR NOT SPECIFIED IN DETAIL, SHALL BE AS SPECIFIED IN OTHER APPLICABLE DIVISIONS COVERING SUCH WORK.

G. RESOLVE CODE VIOLATIONS OCCURRING IN CONTRACT DOCUMENTS WITH THE ARCHITECT/ENGINEER PRIOR TO AWARD OF CONTRACT.

H. PROVIDE ALL EXCAVATION, CONCRETE AND BACKFILL REQUIRED FOR ELECTRICAL WORK EXCLUSIVELY. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE IN WHICH CONSTRUCTION TO TAKE PLACE.

WORK INCLUDES

A. INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, SERVICES, PERMITS AND CERTIFICATES OF INSPECTION NECESSARY FOR THE PROPER COMPLETION OF ALL ELECTRICAL WORK. ITEMS OMITTED, BUT NECESSARY TO MAKE THE ELECTRICAL SYSTEM COMPLETE, SAFE, AND WORKABLE, SHALL BE UNDERSTOOD TO FORM PART OF THE WORK.

B. IT IS THE PURPOSE OF THE ELECTRICAL DRAWINGS TO INDICATE THE APPROXIMATE LOCATION OF ALL EQUIPMENT, OUTLETS, ETC. ASCERTAIN EXACT LOCATIONS AND ARRANGE WORK ACCORDINGLY. THE RIGHT IS RESERVED TO EFFECT REASONABLE CHANGES IN THE LOCATION OF OUTLETS UP TO THE TIME OF ROUGHING-IN WITHOUT ADDITIONAL COST TO THE OWNER. CHANGES IN LOCATION OF OUTLETS OR EQUIPMENT NECESSITATED BY INTERFERENCE WITH THE WORK OF OTHER TRADES SHALL BE MADE ONLY WITH THE CONSENT OF THE ARCHITECT'S OR OWNER'S REPRESENTATIVE AND AT NO ADDITIONAL COST.

C. THE ELECTRICAL CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE AND ALL OTHER TRADES IN AN EFFORT TO OVERCOME DIFFICULTIES ENCOUNTERED THROUGH FIELD CONDITIONS.

D. THE ELECTRICAL DESIGN IS BASED ON THE LATEST VERSION OF THE NEC APPLICABLE TO WORK ON THIS SITE. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF PROVIDING MATERIALS AND EQUIPMENT NECESSARY TO SATISFY LOCAL OR REGIONAL CODES.

RELATED WORK SPECIFIED ELSEWHERE

A. TEMPERATURE CONTROLS ARE PROVIDED AND WIRED BY A CONTROLS CONTRACTOR UNDER DIVISION 15.

B. STARTERS - SUPPLIED AS AN INTEGRAL PART OF THE EQUIPMENT SHALL BE FURNISHED UNDER THE DIVISION PROVIDING THE EQUIPMENT. WIRING AND DISCONNECT SHALL BE UNDER DIVISION 16. ALL OTHER STARTERS AND AUXILIARY CONTROL EQUIPMENT SHALL BE SUPPLIED AND WIRED UNDER DIVISION 16 UNLESS OTHERWISE NOTED.

C. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADES; MECHANICAL, PLUMBING, ETC., AND SHALL VERIFY EQUIPMENT AND DEVICE VOLTAGE, PHASE AND AMPACITY SPECIFICATION. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY WIRING, RACEWAYS AND PROTECTIVE DEVICES, ETC., AS REQUIRED FOR THE CORRECT AND PROPER OPERATION OF THE INSTALLED EQUIPMENT, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

MATERIAL SUBSTITUTIONS

A. THESE SPECIFICATIONS ESTABLISH QUALITY STANDARDS OF MATERIALS AND EQUIPMENT TO BE PROVIDED. SPECIFIC ITEMS ARE IDENTIFIED BY MANUFACTURER, TRADE NAME OR CATALOG DESIGNATION. THIS CONTRACTOR SHALL SUBMIT HIS BASE BID PRICE BASED UPON STANDARD SPECIFIED EQUIPMENT DESCRIBED HEREIN AND AS DETAILED ON DRAWINGS AND ASSOCIATED CONTRACT DOCUMENTS. SUBSTITUTION EQUIPMENT ACCEPTED AS DETAILED BELOW SHALL BE SHOWN AS A SEPARATE ADD OR DEDUCT PRICE TO BE FACTORED INTO THE BASE BID PRICE BY THE ARCHITECT AND OWNER IF ACCEPTED.

B. THESE SPECIFICATIONS ARE NOT TO BE CONSIDERED PROPRIETY AND THE CONTRACTOR MAY SUBMIT MATERIALS OR MANUFACTURERS (OTHER THAN THOSE LISTED) FOR REVIEW BY THE ARCHITECT AND ENGINEER NO LATER THAN TEN (10) DAYS BEFORE BIDS ARE SUBMITTED. MANUFACTURERS OF PRODUCTS ACCEPTED BY THE ARCHITECT AND ENGINEER WILL BE LISTED IN AN ADDENDUM TO THE SPECIFICATIONS AS AN ACCEPTABLE EQUIVALENT. SHOULD THE CONTRACTOR PROPOSE TO FURNISH MATERIALS AND EQUIPMENT OTHER THAN THOSE SPECIFIED, OR APPROVED BY ADDENDUM, SUBMIT A WRITTEN REQUEST FOR SUBSTITUTIONS TO THE ARCHITECT.

C. SUBMIT (AT HIS COST) INSPECTION SAMPLES OF BOTH THE SPECIFIED AND THE PROPOSED SUBSTITUTE ITEMS.

LED LUMINARIES AND DRIVERS

A. ALL LUMINARIES
   1. COMPLY WITH IES LM-79-08 APPROVED METHOD FOR MEASURING LUMEN MAINTENANCE OF LED LIGHT SOURCES.
   2. COMPLY WITH IES LM-80-08 APPROVED METHOD FOR ELECTRICAL AND PHOTOMETRIC MEASUREMENT OF SSL PRODUCT.
   3. COMPLY WITH IN-SITU TESTING FOR MORE RELIABLE RESULTS.
   4. LED'S SHALL BE RESTRICTION OF HAZARDOUS SUBSTANCES DIRECTIVE (ROHS) COMPLIANT.
   5. LED ARRAYS SHALL BE SEALED, HIGH PERFORMANCE, LONG LIFE TYPE; MINIMUM 70% RATED OUTPUT AT 50,000 HOURS.
   6. LED LUMINARIES SHALL DELIVER A MINIMUM OF 60 LUMENS PER WATT.
   7. DRIVERS SHALL BE SOLID STATE AND ACCEPT 120 THROUGH 277 VAC AT 60 HZ INPUT.
   8. THE LED LIGHT SOURCE SHALL BE FULLY DIMMABLE WITH USE OF COMPATIBLE DIMMERS SWITCH DESIGNATED FOR LOW VOLTAGE LOADS UNLESS OTHERWISE NOTED.
   9. LED COLOR TEMPERATURES: CRI > 85, 2700K AS NOTED +/- 145K.
   10. LED COLOR TEMPERATURES: CRI > 85, 4000K AS NOTED +/- 275K.
   11. LED COLOR TEMPERATURES: CRI > 85, 5000K AS NOTED +/- 283K.
   12. LUMINARIES SHALL HAVE INTERNAL THERMAL PROTECTION.
   13. LUMINARIES SHALL NOT DRAW POWER IN THE OFF STATE. LUMINARIES WITH INTEGRAL OCCUPANCY, MOTION, PHOTO-CONTOLS, OR INDIVIDUALLY ADDRESSABLE LUMINARIES WITH EXTERNAL CONTROL AND INTELLIGENCE ARE EXEMPT FROM THIS REQUIREMENT. THE POWER DRAW FOR SUCH LUMINARIES SHALL NOT EXCEED 0.5 WATTS WHEN IN THE OFF STATE.
   14. COLOR SPATIAL UNIFORMITY SHALL BE WITHIN .004 OF CIE 1976 DIAGRAM.
   15. COLOR MAINTENANCE OVER RATED LIFE SHALL BE WITHIN .007 OF CIE 1976.
   16. INDOOR LUMINARIES SHALL HAVE A MINIMUM CRI OF 85.
   17. LUMINARIES MANUFACTURERS SHALL ADHERE TO DEVICE MANUFACTURER GUIDELINES, CERTIFICATION PROGRAMS, AND TEST PROCEDURES FOR THERMAL MANAGEMENT.
   18. LED PACKAGE(S)/MODULE(S)/ARRAY(S) USED IN QUALIFIED LUMINARIES SHALL DELIVER A MINIMUM 70% OF INITIAL LUMENS, WHEN INSTALLED IN-SITU, FOR A MINIMUM OF 50,000 HOURS.
   19. LUMINARIES SHALL BE FULLY ACCESSIBLE FROM BELOW CEILING PLANE FOR CHANGING DRIVERS, POWER SUPPLIES AND ARRAYS.

B. POWER SUPPLIES AND DRIVERS
   1. POWER FACTOR: 0.90 OR HIGHER.
   2. MAXIMUM DRIVER CASE TEMPERATURE NOT TO EXCEED DRIVER MANUFACTURER RECOMMENDED IN-SITU OPERATION.
   3. OUTPUT OPERATING FREQUENCY: 60HZ.
   4. INTERFERENCE: EMI AND RFI COMPLIANT WITH FCC 47 CFR PART 15.
   5. TOTAL HARMONIC DISTORTION RATING: 20% MAXIMUM.
   6. MEET ELECTRICAL AND THERMAL CONDITIONS AS DESCRIBED IN LM-80 SECTION 5.0.
   7. PRIMARY CURRENT: CONFIRM PRIMARY CURRENT WITH DRAWINGS.
   8. SECONDARY CURRENT: CONFIRM SECONDARY CURRENT SPECIFIED BY INDIVIDUAL LUMINARIES MANUFACTURERS.
   9. COMPATIBILITY: CERTIFIED BY MANUFACTURER FOR USE WITH INDIVIDUALLY SPECIFIED LUMINARIES AND INDIVIDUALLY SPECIFIED CONTROL COMPONENTS.
   10. SOLID-STATE CONTROL COMPONENTS TO BE INTEGRAL OR EXTERNAL PER EACH SPECIFIED LUMINARIES. REMOTE CONTROL GEAR TO BE ENCLOSED IN CLASS 1, CLASS 2, OR NEMA 3R ENCLOSURES AS REQUIRED.

C. CONTROLLER AND CONTROL SYSTEM
   1. SYSTEM ELECTRONICS DRIVER / CONTROLLER TO USE COORDINATED COMMUNICATION PROTOCOLS: DMX512, 0-10V DALI, OR PROPRIETARY AS REQUIRED.
   2. THE CONTRACTOR TO ENSURE THAT EXTERNAL CONTROL EQUIPMENT IS COMPATIBLE WITH LED CONTROL REQUIREMENTS.
   3. PROVIDE CONNECTOR TYPES AND WIRING AS APPROPRIATE FOR UN-INTERRUPTED COMMUNICATION BETWEEN DEVICES, CONSIDERING DISTANCE MAXIMUMS, FIELD OBSTRUCTIONS, AND ACCESSIBILITY. ENSURE THAT CONNECTION POINTS ARE OPTICALLY ISOLATED FOR SYSTEM NOISE REDUCTION.
   4. FOR CONTROL COMPONENTS THAT ARE PART OF OVERALL AREA CONTROL SYSTEM SEE DIMMING CONTROLS SPECIFICATIONS.
   5. COMPATIBILITY: CERTIFIED BY MANUFACTURER FOR USE WITH INDIVIDUALLY SPECIFIED LUMINARIES AND INDIVIDUALLY SPECIFIED POWER SUPPLIES AND/OR DRIVERS.

CODES, PERMITS AND FEES

A. SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR ELECTRICAL WORK. TURN OVER ALL CERTIFICATES OF APPROVAL, BY GOVERNING AGENCIES, TO THE ARCHITECT FOR TRANSMITTAL TO OWNER BEFORE PAYMENT IS MADE FOR THE WORK.

B. GIVE THE PROPER AUTHORITIES NOTICES AS REQUIRED BY LAW RELATIVE TO THE WORK IN HIS CHARGE. COMPLY WITH THE REGULATIONS REGARDING TEMPORARY ENCLOSURES, OBSTRUCTIONS OR EXCAVATIONS AND PAY ALL LEGAL FEES INVOLVED.

C. WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE NEC, APPLICABLE TO WORK ON THIS SITE, AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION, AS WELL AS ANY FURTHER MODIFICATIONS OR REGULATIONS OF LOCAL OR STATE AUTHORITIES.

D. PROVISIONS OF THE LATEST REVISIONS TO THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) SHALL BE SATISFIED.

TESTS

A. AFTER INSTALLATION BUT PRIOR TO ENERGIZATION, TEST FOR GROUNDS, SHORT CIRCUITS AND PROPER FUNCTION. FAULTS IN THE INSTALLATION SHALL BE CORRECTED.

B. INSULATION RESISTANCE TESTS SHALL BE MADE ON THE ELECTRICAL SYSTEM WITH NOT LESS THAN 1000V D.C. USING AN APPROVED MEGOHMETER (BIDDLE, MEGGER OR EQUAL) AND ALSO COMPLETE RESISTANCE/CONTINUITY TEST ON GROUNDING SYSTEM.

C. CONDUCT SUCH TESTS AND ADJUSTMENTS OF THE EQUIPMENT AS REQUIRED BY THE ARCHITECT/ENGINEER OR AS NECESSARY TO VERIFY PERFORMANCE REQUIREMENTS. SUBMIT DATA TO THE ARCHITECT.

D. INSPECT WIRE AND CABLE FOR PHYSICAL DAMAGE AND INSURE PROPER CONNECTIONS AND BENDING RADII.

EQUIPMENT IDENTIFICATION AND LABELING

A. PROVIDE NAME PLATES ON ALL EQUIPMENT OF THE TYPE LISTED IN THE FOLLOWING SCHEDULE:

   1. PANELBOARDS AND DISTRIBUTION EQUIPMENT
   2. MOTOR STARTERS
   3. SAFETY SWITCHES
   4. CONTROL PANELS
   5. CONTROL DEVICES
   6. JUNCTION AND PULL BOXES

B. LETTERING SHALL INCLUDE NAME OF EQUIPMENT, HORSEPOWER, VOLTAGE RATING AND SERVICE DESIGNATION.

C. NAME PLATES SHALL BE LAMINATED PHENOLIC WITH A BLACK SURFACE AND WHITE CORE. NAME PLATES MAY BE ATTACHED TO WALL ADJACENT TO EQUIPMENT IF AREA FOR ATTACHMENT IS TOO SMALL. IDENTIFICATION WITH A DYMO TYPE INSTRUMENT IS NOT PERMISSIBLE

D. NAMEPLATES ON PANELBOARDS, DISTRIBUTION PANELS, ETC., IN UNFINISHED AREAS SHOULD BE ON EXTERIOR TRIM NEAR TOP.

E. CABINET AND PANEL DOORS SHALL BE MARKED WITH NAME PLATE IDENTIFICATION NUMBERS USED ON THE DRAWINGS.

F. IDENTIFICATION OF BRANCH CIRCUITS SHALL BE TYPEWRITTEN ON DIRECTORY CARDS FURNISHED WITH ALL PANELS AND PLACED IN THE CARD HOLDER ON THE DOOR. SPARE CIRCUITS SHALL BE LEFT BLANK FOR FUTURE IDENTIFICATION. TYPE DIRECTORY AFTER CIRCUIT BALANCING ADJUSTMENT (WITHIN 10%) WHILE ALL ACTIVE CIRCUITS ARE OPERATING.

G. IDENTIFY FEEDER SOURCE FOR PANELBOARDS INDICATING FEEDER FUSE/CIRCUIT BREAKER SIZE AND LOCATION ON THE NAMEPLATE.

CLEANING AND FINISHING

A. AFTER ALL TESTS HAVE BEEN COMPLETED, CLEAN ALL EQUIPMENT LEAVING EVERYTHING IN WORKING ORDER AT THE COMPLETION OF THIS WORK. CLEAN INSIDE OF CONTROL PANELS, ENCLOSURES, PANELBOARDS, SWITCHES, ETC. BEFORE ENERGIZING.

B. ALL DEBRIS CREATED BY THE EXECUTION OF THIS WORK SHALL BE REMOVED ON A DAILY BASIS LEAVING A BROOM CLEAN FINISH.

CUTTING, PATCHING AND PAINTING

A. AVOID CUTTING INTO THE WORK OF OTHERS BY USING SLEEVES, INSERTS, CHASES AND SIMILAR ITEMS NECESSARY FOR THE INSTALLATION.

B. EXCEPT WHERE OTHERWISE SPECIFIED OR NOTED ON DRAWINGS, THE GENERAL CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF THE BUILDING AS REQUIRED TO INSTALL SLEEVES, INSERTS, CONDUITS AND ELECTRICAL EQUIPMENT.

C. PAINTING SHALL BE PROVIDED UNDER OTHER DIVISIONS OF THIS SPECIFICATION (EXCEPT FIELD APPLIED TOUCH-UP MATCHING EXISTING SURFACE AND FIELD APPLIED CORROSION RESISTANT FINISH TO FIELD CUTS AND THREADS).

TEMPORARY ELECTRIC SERVICE

A. PROVIDE A TEMPORARY ELECTRICAL SERVICE ADEQUATE IN SIZE FOR THE USE OF ALL TRADES AND THE LIGHTING OF EACH ROOM DURING CONSTRUCTION. INCLUDE ALL UTILITY COMPANY CHARGES FOR PROVIDING A TEMPORARY SERVICE TO THE JOB SITE. THE COST OF ELECTRICITY USED DURING CONSTRUCTION IS DESCRIBED UNDER DIVISION 1.

B. TEMPORARY WIRING SHALL BE TO NEC ARTICLE 305 AND O.S.H.A. REQUIREMENTS.

COORDINATION WITH OTHER TRADES

A. CONSULT THE DRAWINGS COVERING THE WORK FOR THE VARIOUS OTHER TRADES, THE FIELD LAYOUTS OF THE CONTRACTORS FOR THE TRADES AND THEIR SHOP DRAWINGS. COORDINATE SCHEDULE ACCORDINGLY IN LAYING OUT WORK.

B. KEEP FULLY INFORMED OF THE PROGRESS OF THE GENERAL CONSTRUCTION. INSTALL WORK THAT IS TO BE CONCEALED WITHIN THE BUILDING CONSTRUCTION IN SUFFICIENT TIME TO SECURE PROPER LOCATION WITHOUT DELAY TO THE WORK OF OTHER TRADES. PLACE ALL EQUIPMENT TOO LARGE TO FIT THROUGH OPENINGS STAIRWAYS, ETC., IN A TIMELY MANNER. ALL CONDUIT AND OUTLET BOXES CONCEALED IN MASONRY CONSTRUCTION SHALL BE INSTALLED DURING WALL CONSTRUCTION. ATTEND ELECTRICAL WORK DURING THE PROGRESS OF BUILDING-IN TO PREVENT MISALIGNMENTS AND DAMAGES TO THE ELECTRICAL WORK.

C. EXAMINE THE WORK OF OTHER TRADES WHEN THEIR WORK COMES IN CONTACT WITH OR IS COVERED BY THIS WORK. DO NOT ATTACH TO, COVER UP, OR FINISH AGAINST ANY DEFECTIVE WORK, OR INSTALL WORK IN A MANNER WHICH WILL PREVENT PROPER INSTALLATION OF THE WORK OF OTHER TRADES.

D. ALL OUTLETS, SWITCHES AND RECEPTACLES SHALL BE CENTERED WITH REGARD TO PANELING, TRIM EQUIPMENT, ETC., AND SHALL LINE UP WITH EITHER BOTTOM OR TOP OF MASONRY COURSES.

E. TAKE ALL FIELD MEASUREMENTS NECESSARY AND ASSUME RESPONSIBILITY FOR THEIR ACCURACY.

GUARANTEE

A. GUARANTEE ALL WORKMANSHIP AND MATERIALS PROVIDED UNDER THE CONTRACT FOR ONE YEAR AFTER ACCEPTANCE BY THE OWNER AND REPAIR OR REPLACE ANY DEFECT WITHOUT COST TO THE OWNER.

B. WHERE DAMAGE TO OTHER WORK OR FURNISHINGS WAS CAUSED BY THE DEFECTS, OR BY THE WORK CORRECTING THE DEFECTS, THE DAMAGES SHALL BE RESTORED OR REPLACED AT THE ELECTRICAL CONTRACTOR'S EXPENSE TO THAT ORIGINALLY EXISTING PRIOR TO THE DAMAGE.

SUBMITTALS

A. SUBMIT DRAWINGS AND WIRING DIAGRAMS IN ACCORDANCE WITH DIVISION I ON ALL ITEMS OF EQUIPMENT PROVIDED FOR REVIEW BY THE ENGINEER. THESE SHALL INCLUDE THE FOLLOWING: LIGHTING FIXTURES & BALLASTS, PANELBOARDS, BATTERY PACKS, WIRING DEVICES, FIRE ALARM DEVICES, AND WIRING DIAGRAMS.

B. THE SUBMITTALS WILL BE REVIEWED ONLY FOR GENERAL COMPLIANCE AND NOT FOR DIMENSIONS, QUANTITIES, ETC. THE SUBMITTALS THAT ARE RETURNED SHALL BE USED FOR PROCUREMENT. THE RESPONSIBILITY OF CORRECT PROCUREMENT REMAINS SOLELY WITH THE CONTRACTOR. THE SUBMITTAL REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS AND DEVIATIONS FROM THE CONTRACT REQUIREMENTS.

C. THE CONTRACTOR SHALL INSURE SUBMITTALS BEAR THE CONTRACTOR'S DATED APPROVAL STAMP AND INDICATE ALL OPTIONS. IF THE SUBMITTAL SHOWS VARIATIONS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, FOR ANY REASON, THE CONTRACTOR SHALL MAKE SPECIFIC MENTION OF SUCH VARIATION IN HIS LETTER OF TRANSMITTAL. THE CONTRACTOR SHALL NOTE IN RED ON THE SUBMITTAL ANY CHANGE IN DESIGN OR DIMENSION ON THE ITEM SUBMITTED INCLUDING CHANGES MADE BY THE MANUFACTURER WHICH MAY DIFFER FROM CATALOG INFORMATION.

D. CONTRACTOR AGREES THAT SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS; THAT THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, THAT HE DEMONSTRATES HIS UNDERSTANDING BY INDICATING WHICH EQUIPMENT AND MATERIAL HE INTENDS TO PROVIDE AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS HE INTENDS TO USE.

E. CONTRACTOR FURTHER AGREES THAT IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS IN THE FORM OF DESIGN DRAWINGS AND SPECIFICATIONS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

ROUGH-IN

A. VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH SHOP DRAWINGS, FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED PRIOR TO ROUGH-IN.

INSTALLATION

A. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN A NEAT AND FIRST CLASS MANNER, LEVEL AND PLUMB, AND SECURELY SUPPORTED. THE ENTIRE INSTALLATION, AND MANNER OF INSTALLATION SHALL MEET THE COMPLETE SATISFACTION OF THE OWNER'S REPRESENTATIVE OR IT SHALL BE REMOVED AND REWORKED AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.

B. ALL WIRING SHALL BE IN CONDUIT. THE USE OF E.N.T., BX, NM, ETC. OR PRE-MANUFACTURED CABLE ASSEMBLIES SUCH AS AC OR MC, OR ALUMINUM WIRE WILL NOT BE PERMITTED.

C. CO-ORDINATE CONNECTION OF ELECTRICAL SYSTEMS WITH UTILITIES AS INDICATED ON THE DRAWINGS. IF UTILITY REQUIRES A DIFFERENT SERVICE SCHEME THAN WHAT IS SHOWN, COORDINATE WITH ENGINEER AND PROVIDE UTILITY REQUIRED EQUIPMENT.

RECORD DRAWINGS

A. DURING CONSTRUCTION ACTIVITIES, KEEP A MARKED UP SET OF DRAWINGS AND LOG OF ACTUAL ROUTING OF CIRCUIT RUNS AS INSTALLED, INSTALLED ITEMS AND IDENTIFY THESE AS "AS-BUILT DOCUMENTS".

B. AFTER THE PROJECT IS COMPLETED, THE CONTRACTOR SHALL DELIVER TO THE ARCHITECT ONE SET OF REPRODUCIBLES OF THE INSTALLATION AS ACTUALLY CONSTRUCTED AND A COPY OF THE FIELD NOTED "AS-BUILT DOCUMENTS".

WORKMANSHIP

A. WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE. ELECTRICAL WORK SHALL BE INSTALLED BY JOURNEYMEN ELECTRICIANS UNDER THE SUPERVISION OF A COMPETENT FOREMAN.

EQUIPMENT AND MATERIALS

A. EQUIPMENT AND MATERIALS USED ON THIS JOB SHALL BE NEW, U.L. LABELED OR AHJ APPROVED NRTL AND O.S.H.A. APPROVED.

B. EQUIPMENT AND MATERIALS SHALL BE PROTECTED AND BE THE RESPONSIBILITY OF THIS CONTRACTOR UNTIL FORMALLY ACCEPTED BY THE OWNER.

C. ALL MANUFACTURERS OF ELECTRICAL EQUIPMENT SHALL VERIFY TO THE SATISFACTION OF THE CONTRACTOR AND ENGINEER THAT THEIR EQUIPMENT WILL FUNCTION PROPERLY UNDER THE CONDITIONS OF USE AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN. DIMENSIONS, WEIGHTS, OPERATING CHARACTERISTICS AND ALL OTHER RELATED APPURTENANCES SHALL BE VERIFIED BEFORE SUBMITTAL OF SHOP DRAWINGS.

D. CONTRACTOR SHALL INSURE THAT ALL EQUIPMENT SUPPLIERS UNDERSTAND THAT THEIR EQUIPMENT IS REQUIRED TO MEET SPECIFIC RATINGS AND REQUIREMENTS UNDER ACTUAL INSTALLED CONDITIONS.

FIRE STOPPING

A. IN ADDITION TO THE REQUIREMENTS SPECIFIED HEREIN, REFER TO DIVISION 1 SPECIFICATIONS FOR FIRE STOPPING GUIDELINES.

B. ALL OPENINGS IN FIRE RATED FLOORS, SHAFTS AND WALLS ACCOMMODATING PENETRATING ITEMS SUCH AS CABLES, CONDUITS, RACEWAYS, CABLE TRAYS, OR BUSWAYS SHALL BE FIRE STOPPED.

C. PROVIDE FIRE STOPPING FOR STEEL ELECTRICAL OUTLET BOXES THAT EXCEED 16 SQUARE INCHES IN AREA AND/OR WHEN THE AGGREGATE SURFACE OF THE BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FOOT OF WALL AREA. IN ADDITION, PROVIDE FIRE STOPPING FOR STEEL ELECTRICAL OUTLET BOXES ON OPPOSITE SIDES OF THE WALL THAT ARE NOT SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.

D. PROVIDE FIRE STOPPING WHERE A PENETRATION OCCURS THROUGH A STRUCTURAL FLOOR OR ROOF AND A SPACE WOULD OTHERWISE REMAIN OPEN BETWEEN THE SURFACE OF THE PENETRATION AND THE EDGE OF THE ADJOINING STRUCTURAL FLOOR OR ROOF.

E. PROVIDE FIRE STOPPING TO COMPLETELY FILL SPACES AROUND PENETRATIONS WHERE PENETRATIONS OCCUR AT FIRE RATED SHAFTS AND WALLS OF HOLLOW TYPE CONSTRUCTION.

F. THE INSTALLATION OF THE FIRE STOPPING MATERIALS SHALL CONFORM TO THE LATEST FIRE RESISTANCE DIRECTORY AS PUBLISHED BY U.L.

G. FIRE STOPPING SHALL BE PERFORMED BY A CONTRACTOR TRAINED OR APPROVED BY THE FIRE STOPPING MANUFACTURER. EQUIPMENT USED SHALL BE IN ACCORDANCE WITH THE FIRE STOPPING MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

H. ACCEPTABLE FIRE STOPPING MATERIAL MANUFACTURERS ARE SPECIFIED TECHNOLOGIES INC., TREMCO, INC., 3M, AND HILTI.

SOUND STOPPING

A. SPACE BETWEEN WALL OR PARTITION AND CONDUIT SHALL BE PACKED WITH A FIRE RESISTANT MINERAL FIBER SIMILAR TO U.S. GYPSUM "THERMAFIBER", DOW CORNING 3-6548 SILICONE RTV FOAM, GENERAL ELECTRIC CO. RTV 850 SILICONE FOAM OR CHASE TECHNOLOGY CORP., CTC PR-855 FIRE RESISTANT FOAM SEALANT.

MISCELLANEOUS STEEL

A. CONTRACTOR SHALL FURNISH AND INSTALL ALL MISCELLANEOUS CARBON, GALVANIZED, STAINLESS STEEL REQUIRED FOR SUPPORTS, HANGERS, ANCHORS, ETC., OR AS MAY BE REQUIRED FOR INSTALLATION OF EQUIPMENT AND MATERIAL FURNISHED AND INSTALLED UNDER THIS DIVISION.

B. DESIGN ALL MISCELLANEOUS STEEL IN ACCORDANCE WITH AISC STEEL HANDBOOK.

SUPPORTING DEVICES

A. ALL HANGERS AND SUPPORTS SHALL CONFORM TO LATEST REQUIREMENTS OF ANSI CODES, UNDERWRITERS LABORATORIES, INC., LISTED WHERE APPLICABLE. PROVIDE WITH CORROSION RESISTANT PRIMER AND FINISH PAINTING.

B. STEEL ANGLE IRON.

C. STEEL CHANNEL, FITTINGS, BRACKETS, BEAM CLAMPS AS MANUFACTURED BY UNISTRUT, ALLIED AND KINDORF OR AN APPROVED EQUAL.

D. METAL FRAMING, FITTINGS, ETC., AS MANUFACTURED BY UNISTRUT, ALLIED AND KINDORF OR AN APPROVED EQUAL.

E. CONCRETE INSERTS, ETC., AS MANUFACTURED BY UNISTRUT, ALLIED AND KINDORF OR AN APPROVED EQUAL.

F. RUSTPROOF SELF DRILLING ANCHOR, SLEEVE ANCHOR, STUD ANCHOR, EXPANSION SHIELD (MALLEABLE IRON OR DIE CAST), EXPANSION ANCHOR SIMILAR TO THOSE AS MANUFACTURED BY "RED HEAD", ITT PHILLIPS DRILL CO.; UNIFAST INDUSTRIES, INC.; STAR; RAWL; ARRO, DIVISION MID-CON OR AN APPROVED EQUAL. SIZE AS INDICATED ON DRAWINGS.

G. CONCRETE WEDGE ANCHORS MATERIAL SHALL BE ZINC PLATED CARBON STEEL. WEDGE ANCHORS SHALL BE SIMILAR TO UNIFAST INDUSTRIES, INC. OR AN APPROVED EQUAL.

IDENTIFICATION

A. AFTER FINISHED PAINTING IS COMPLETE, IDENTIFY EACH FEEDER CABLE AND CONDUIT SERVICE. LOCATE IDENTIFICATION:

   1. BEHIND EACH ACCESS DOOR.
   2. AT EACH CHANGE OF DIRECTION AND AT JUNCTION BOXES.
   3. AT NOT MORE THAN 40 FEET APART IN STRAIGHT RUNS OF CONDUIT BEHIND REMOVABLE ENCLOSURES SUCH AS LAY-IN TYPE CEILING, BUT ON BOTH SIDES OF SLEEVES THROUGH WALLS OF FLOORS.
   4. ABOVE EACH FLOOR OR PLATFORM FOR VERTICAL EXPOSED CONDUITS, PREFERABLY 60" ABOVE FLOOR OR PLATFORM.
   5. USE STENCILS AND STENCIL PAINT OR LAMACOID PLATES ON ALL CONDUIT.
   6. USE MINIMUM 1" HIGH LETTERS.
   7. THE IDENTIFICATION SHALL DESCRIBE SYSTEM VOLTAGE AND SERVICE, I.E. "120/208 VOLT LIGHTING TO PANEL AA".
   8. IDENTIFY OUTLET BOXES FOR THE VARIOUS SYSTEMS BY THE USE OF THE FOLLOWING DISTINCTIVE COLOR PAINTS. APPLY A SMALL AREA OF PAINT TO THE INSIDE OF EACH OUTLET BOX, PULL BOX AND PANEL AS IT IS BEING INSTALLED. IDENTIFY JUNCTION BOXES IN SUSPENDED CEILINGS AREAS WITH COLOR ON BOTH INSIDE AND OUTSIDE. PROVIDE CIRCUIT NUMBER ON EXTERIOR OF COVER OR PLATE (SUCH AS "LP-1").

RACEWAYS

A. TYPES OF RACEWAYS SPECIFIED IN THIS SECTION INCLUDE THE FOLLOWING:
   1. ELECTRICAL METALIC TUBING (EMT); MINIMUM TRADE SIZE 1/2".
   2. FLEXIBLE METAL CONDUIT. MINIMUM TRADE SIZE 1/2".
   3. LIQUID- TIGHT FLEXIBLE METAL CONDUIT (SEALTIGHT) MINIMUN TRADE SIZE 1/2".
   4. RIGID METAL CONDUIT. MINIMUM TRADE SIZE 1/2". 5. RIGID NONMETALLIC CONDUIT (PVC). SCHEDULE 40, MINIMUM TRADE SIZE 1/2".

B. FITTINGS
   1. FITTINGS FOR EMT SHALL BE STEEL SET SCREW OR COMPRESSION TYPE WITH FACTORY INSTALLED INSULATED THROAT CONNECTORS. DIE CAST OR POT METAL FITTINGS ARE NOT ACCEPTABLE.
   2. FITTINGS FOR FLEXIBLE CONDUIT SHALL BE STEEL OR CAST IRON.
   3. FITTINGS FOR RIGID CONDUIT SHALL BE STEEL THREADED TYPE.
   4. FITTINGS FOR PVC SHALL BE SCHEDULE 40 GLUE-ON TYPE.

      a. BLACK - 120/208 VOLT SYSTEM
      b. GREEN - TELEPHONE/DATA SYSTEM
      c. RED - FIRE ALARM SYSTEM

THIS SHEET IS PART OF THE CONSTRUCTION DOCUMENTS, OTHER SHEETS INCLUDING SPECIFICATIONS APPLY. THAT SHOWN HEREON IS SCHEMATIC IN NATURE AND NOT TO BE USED AS A SHOP DRAWING; THEREFORE, INCLUDE ALL MODIFICATIONS REQUIRED TO CONFORM TO SITE CONDITIONS AND THE EQUIPMENT AND MATERIAL USED. VERIFY LOCATIONS AND DIMENSIONS OF ALL ARCHITECTURAL AND STRUCTURAL ELEMENTS AS SHOWN ON THEIR RESPECTIVE DOCUMENTS, THESE ELEMENTS ARE SHOWN FOR REFERENCE AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND THE ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OF THESE ELEMENTS. NO DESIGN RESPONSIBILITY IS ASSUMED FOR ANY PORTION OF THE WORK THAT THE PROFESSIONAL ENGINEER HAS NOT SIGNED AND SEALED PER STATE/PROVINCE REQUIREMENTS.

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REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

SEAL:

ISSUED FOR: 75% CONSTRUCTION DOCUMENTS
ISSUED DATE: 05.15.2019

DRAWN BY: AAI
CHECKED BY: ATF
PROJECT NUMBER: 2319131

DRAWING NAME:
ELECTRICAL SPECIFICATIONS

DRAWING NO.
E000

NOT FOR CONSTRUCTION

Plot Date: 5/14/2019 10:37:58 AM Dwg Filename: Y:_Projects\Active\2019\01201941.02\01201941.02 Drawings\INT_E000.dwg

INSTALLATION OF RACEWAYS

A. ALL CONDUITS SHALL BE INSTALLED CONCEALED, EXCEPT IN EQUIPMENT ROOM, CHASES OR AS INDICATED ON THE DRAWINGS. ALL CONDUITS, EXPOSED AND CONCEALED SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND SHALL BE GROUPED TOGETHER AS MUCH AS POSSIBLE, EVEN ABOVE LAY-IN CEILINGS.

B. A SEPARATE GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL RUNS. WHERE SIZES LARGER THAN #12 AWG ARE REQUIRED BY THE NEC, THE CONDUCTOR SHALL BE SIZED AS INDICATED IN THE NEC. ALL GROUNDING CONDUCTORS SHALL HAVE A GREEN OUTER COVERING, OR GREEN MARKING TAPE OVER THEIR ENTIRE EXPOSED LENGTHS.

C. MECHANICALLY FASTEN TOGETHER METAL CONDUITS, ENCLOSURES, AND RACEWAYS FOR CONDUCTORS TO FORM A CONTINUOUS ELECTRICAL CONDUCTOR. CONNECT TO ELECTRICAL BOXES, FITTINGS AND CABINETS TO PROVIDE ELECTRICAL CONTINUITY AND FIRM MECHANICAL ASSEMBLY.

D. AVOID USE OF DISSIMILAR METALS THROUGH SYSTEM TO ELIMINATE POSSIBILITY OF ELECTROLYSIS.

E. INSTALL EXPANSION FITTINGS IN RACEWAYS EVERY 200' LINEAR RUN OR WHEREVER STRUCTURAL EXPANSION JOINTS ARE CROSSED.

F. PROVIDE NYLON PULL CORD IN ALL EMPTY CONDUITS (MINIMUM 90# TENSILE STRENGTH).

G. CONDUIT INSTALLATION
1. USE RIGID METAL CONDUIT FOR ALL WEATHER EXPOSED WORK AND FOR ALL ROOF PENETRATIONS THROUGH PATE PLUGS. MAY CONVERT A JUNCTION BOX BELOW ROOF.
2. USE E.M.T. FOR ALL INTERIOR CONCEALED AND FOR EXPOSED WORK NOT SUBJECT TO MECHANICAL INJURY.
3. USE P.V.C. FOR ALL UNDERGROUND WORK OR WORK INSTALLED IN CONCRETE. USE RIGID METAL CONDUIT ELBOW AT STUB-UP LOCATIONS.
4. USE FLEXIBLE METAL CONDUIT FROM OUTLET BOXES TO RECESSED LIGHTING FIXTURE AND FINAL 24" OF CONNECTION TO ITEMS SUBJECT TO MOVEMENT OR VIBRATION.
5. USE LIQUID-TIGHT FLEXIBLE CONDUIT FOR FINAL 24" CONNECTION TO ITEMS WHERE SUBJECTED TO ONE OR MORE OF THE FOLLOWING CONDITIONS:
   a. EXTERIOR LOCATION.
   b. MOIST OR HUMID ATMOSPHERE WHERE CONDENSATE CAN BE EXPECTED TO ACCUMULATE.
   c. CORROSIVE ATMOSPHERE.
   d. SUBJECTED TO WATER SPRAY OR DRIPPING OIL, WATER OR GREASE.
   e. FINAL CONNECTION TO ROTATING OR VIBRATING EQUIPMENT.
6. CUT CONDUITS STRAIGHT, PROPERLY REAM AND CUT THREADS FOR HEAVY WALL CONDUIT DEEP AND CLEAN.
7. FIELD BEND CONDUIT WITH BENDERS DESIGNED FOR THE PURPOSE SO AS NOT TO DISTORT NOR VARY INTERNAL DIAMETER.

WIRE AND CABLE

A. WIRE SIZE SHALL BE DETERMINED FROM THE APPROPRIATE N.E.C. TABLES UTILIZING THE NECESSARY DERATING FACTORS FOR TEMPERATURE, GROUNDING, ETC. MINIMUM WIRE SIZE FOR POWER AND LIGHTING CIRCUITS SHALL BE #12. WIRE SIZES #12 AND SMALLER SHALL BE SOLID. WIRE SIZES #10 AND LARGER SHALL BE STRANDED.

B. INDIVIDUAL CIRCUITS ARE INDICATED DIAGRAMATICALLY ON THE DRAWINGS FOR CLARITY. CIRCUITS MAY BE GROUPED FOR HOMERUNS. NOTE THAT THE APPLICABLE N.E.C. ADJUSTMENT FACTORS MUST BE APPLIED.

C. THE ELECTRICAL CONTRACTOR SHALL INSTALL SEPARATE NEUTRALS FOR EACH INDIVIDUAL BRANCH CIRCUIT UNLESS NOTED OTHERWISE. COMBINED NEUTRALS MAY ONLY BE USED WITH THE ARCHITECT/ENGINEER'S APPROVAL AND ONLY FOR CIRCUITS ON DIFFERENT PHASES.

D. WHERE SIZE IS NOT INDICATED ON 120 VOLT CIRCUITS, CONDUCTOR SIZE #12 MINIMUM SHALL BE USED FOR CIRCUITS LESS THAN 100 FEET AND SIZE #10 MINIMUM SHALL BE USED FOR CIRCUITS GREATER THAN 100 FEET. WIRE SIZES SHALL BE DETERMINED BASED UPON INSULATION TYPE, GROUP DERATING FACTORS AND AMBIENT TEMPERATURE FACTORS.

E. COLOR CODING OF CONDUCTORS SHALL BE AS FOLLOWS FOR VOLTAGES WHEN PRESENT:
1. 208Y/120V SYSTEMS: PHASE A- BLACK, PHASE B- RED, PHASE C- BLUE, NEUT. - WHITE, GND. - GREEN.
2. 480Y/277V SYSTEM: PHASE A - YELLOW, PHASE B - BROWN, PHASE C - ORANGE, NEUT. - NATURAL GRAY, GND. - GREEN.

OUTLET BOXES

A. ALL OUTLET BOXES UPON WHICH LIGHTING FIXTURES ARE TO BE INSTALLED, SHALL BE EQUIPPED WITH 3/8 INCH FIXTURE STUDS.

B. ALL BOXES SHALL BE RIGIDLY SUPPORTED FROM BUILDING STRUCTURE INDEPENDENT OF THE CONDUIT SYSTEM. BOXES CAST INTO MASONRY OR CONCRETE ARE CONSIDERED TO BE RIGIDLY SUPPORTED.

C. FLUSH DEVICE BOXES IN MASONRY WALLS SHALL BE MASONRY BOXES DESIGNED FOR THE PURPOSE, OR 4-INCH SQUARE BOXES WITH RAISED SQUARE COVERS DESIGNED FOR MASONRY. FLUSH BOXES IN OTHER WALLS SHALL HAVE PROPER RAISED COVERS SUITABLE FOR WALL MATERIAL.

WIRING DEVICES

A. LOCAL LIGHT SWITCHES SHALL BE BACK AND SIDE WIRED, 20 AMPERE, 120/277 VOLTS, AC SPECIFICATION GRADE. MANUFACTURERS SHALL BE LEVITON "SPECCLASS" TOGGLE SERIES, HUBBELL AND GENERAL ELECTRIC OR EQUAL.

B. CONVENIENCE OUTLETS FOR 120 VOLT GENERAL USE SHALL BE COMMERCIAL GRADE, DUPLEX 20 AMPERE, 125 VOLT, 3 WIRE, GROUNDING TYPE. THE TOP SHALL BE OF HIGH IMPACT THERMOPLASTIC SUCH AS NYLON. THE STRAP SHALL BE HEAVY DUTY STEEL THAT WRAPS AROUND THE DEVICE. GROUND CONTACTS SHALL BE BRASS AND RIVETED TO THE STRAP. AUTOMATIC GROUND CLIP SHALL BE PROVIDED. LEVITON "SPECCLASS" SERIES, HUBBELL AND GENERAL ELECTRIC WITH FINISH SELECTED BY THE ARCHITECT.

C. INDOOR AND OUTDOOR RECEPTACLES, WHERE REQUIRED AND/OR INDICATED, SHALL HAVE INTEGRAL GROUND FAULT PROTECTOR OR GROUND FAULT CIRCUIT BREAKER PROTECTION IN ACCORDANCE WITH N.E.C. ART. #210.8(B).

D. ALL SWITCH AND CONVENIENCE OUTLET PLATES SHALL BE UNBREAKABLE PLASTIC TO SUIT OUTLETS PROVIDED. TO ENSURE UNIFORM COLOR, PLATES AND DEVICES SHALL BE OF ONE MANUFACTURER.

E. MANUAL MOTOR STARTERS SHALL BE WESTINGHOUSE TYPE "MS" WITH PILOT LIGHT OR EQUAL BY I.T.E., CUTLER-HAMMER, SQUARE-D, OR G.E.

F. WEATHERPROOF RECEPTACLES SHALL BE HUBBELL GFCI RATED #GF5362 DUPLEX OUTLET WITH HUBBELL TAYMAC #20510 SAFETY OUTLET ENCLOSURE (IN COMPLIANCE WITH NEC 410-57B).

G. PROVIDE RECEPTACLES AND SWITCHES AS INDICATED. COLORS SHALL BE AS NOTED ON DRAWINGS (SELECTED BY ARCHITECT) AND COORDINATED WITH WALL COLOR. VERIFY PRIOR TO PURCHASE ORDER.

H. MOUNTING HEIGHTS TO CENTER OF BOX UNLESS OTHERWISE INDICATED SHALL BE:

1. SWITCHES @ 4'-0"
2. RECEPTACLES @ 18"
3. TELEPHONE/DATA OUTLET BOXES @ 18"
4. WALL TELEPHONE OUTLET BOXES @ 18/48" AS SHOWN ON DRAWING.

I. VERIFY MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECT BEFORE ROUGH-IN. SEE ARCHITECTURAL DETAILS AND ELEVATIONS.

J. OUTLETS SHOWN TO BE INSTALLED BACK TO BACK, REFER TO FIRE STOPPING, SECTION(C).

K. THE INSIDE COVER OF ALL RECEPTACLE OUTLET PLATES SHALL BE PERMANENTLY MARKED TO INDICATE THE PANEL AND CIRCUIT NUMBER OF THE OUTLET.

L. ELECTRICAL CONTRACTOR SHALL VERIFY DOOR SWINGS FOR PROPER LOCATION OF SWITCHES PRIOR TO ROUGH-IN.

DISCONNECT SWITCHES

A. ALL DISCONNECT SWITCHES, FUSIBLE OR NON-FUSIBLE, SHALL BE SAFETY SWITCH TYPE, SINGLE THROW, SHALL BE INSTALLED WHERE INDICATED ON THE DRAWINGS AND/OR WHERE REQUIRED BY CODE. SWITCHES SHALL BE HEAVY DUTY, NEMA 1 ENCLOSURE INDOORS AND NEMA 3R OUTDOORS, SIZE AS REQUIRED AND MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, EATON CUTLER-HAMMER, OR SIEMENS (MAY BE SAFETY SWITCH OR OTHER APPROVED SWITCH FOR APPLICATION WHERE INDICATED).

B. IF DOUBLE LUGGING OR OVERSIZED WIRES ARE REQUIRED, PROVIDE A WIREWAY OR SPLICE BOX.

C. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE SET OF FUSES FOR ALL FUSIBLE EQUIPMENT ON THE JOB. UNLESS OTHERWISE INDICATED, ALL FUSES SHALL BE U.L. LISTED, CURRENT-LIMITING AND HAVE AN INTERRUPTING RATING OF 200,000 RMS AMPERES SYMMETRICAL. PROVIDE FUSES INDICATED. WHERE NOT INDICATED, PROVIDE ALL FUSES RATED 600 AMPERES OR LESS SHALL BE DUAL ELEMENT TIME-DELAY CURRENT-LIMITING U.L. CLASS J (OR RK-1).

GROUNDING

A. GROUND ALL CONDUITS, CABINETS, MOTORS, PANELS AND OTHER EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ALL PROVISIONS OF THE NATIONAL ELECTRIC CODE AND LOCAL CODES APPLICABLE TO WORK ON THIS SITE.

B. SYSTEM NEUTRAL CURRENT CONDUCTORS SHALL BE GROUNDED AT THE SOURCE, BUT THEY SHALL NOT BE USED FOR EQUIPMENT GROUNDING. GROUND SYSTEM NEUTRALS AT TRANSFORMERS.

C. GROUND ALL CONDUITS BY MEANS OF GROUNDING. PROVIDE BUSHINGS ON TERMINATIONS AT PANELBOARDS WITH AN INSTALLED #12 CONDUCTOR TO GROUNDING BUS.

D. GROUNDING OF THE ELECTRICAL SYSTEM EQUIPMENT SHALL BE BY MEANS OF AN INSULATED GROUNDING CONDUCTOR INSTALLED WITH CIRCUIT CONDUCTORS IN ALL CONDUITS. EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH N.E.C. 250.122 AND SHALL RUN FROM GROUNDING BUS OF SERVING PANEL TO GROUND BUS OF SERVED PANEL, GROUNDING SCREW OF RECEPTACLES, LIGHTING FIXTURE HOUSINGS, LIGHT SWITCH OUTLET BOXES OR METAL ENCLOSURES OF SERVED EQUIPMENT.

E. INSTALL BONDING JUMPERS ACROSS ALL BUILDINGS, EXPANSION JOINTS, AND ACROSS CONDUIT EXPANSION FITTINGS.

F. CONDUCTORS FOR GROUNDING SYSTEM SHALL BE SOFT OR MEDIUM HARD DRAWN, STRANDED, BARE COPPER EXCEPT WHERE OTHERWISE NOTED.

G. ALL CONDUCTORS #8AWG AND SMALLER SHALL BE INSULATED.

H. WHERE GROUNDING CONDUCTORS ARE SUBJECT TO MECHANICAL INJURY THEY SHALL BE PROTECTED BY ENCASEMENT IN CONCRETE OR INSTALLED IN A RIGID METALLIC RACEWAY.

I. ALL CONNECTION OF GROUND CONDUCTORS TO GROUND RODS, STRUCTURAL MEMBERS, PIPES, OR FENCES AND SPLICES OF GROUND CONDUCTORS SHALL BE MADE BY EXOTHERMIC WELDS EXCEPT WHERE OTHERWISE NOTED.

J. ALL CONNECTIONS TO COPPER GROUNDING BUS BAR SHALL BE MADE USING 2-HOLE LUGS WITH COMPRESSION CONNECTION TO CABLE. GROUND BAR MINIMUM SIZE SHALL BE ¼" THICK, 2" HIGH AND LENGTH AS REQUIRED BUT NOT LESS THAN 8" LONG. USE STANDOFF INSULATORS AT EACH END.

K. THE RESISTANCE TO GROUND FOR THE ENTIRE GROUNDING SYSTEM SHALL NOT EXCEED 5 OHMS UNDER NORMAL DRY CONDITIONS. NOTIFY ENGINEER IF RESISTANCE CANNOT BE ACHIEVED.

L. TESTS OF GROUNDING RESISTANCE SHALL NOT BE MADE WITHIN 24 HOURS AFTER A RAINFALL. IF AFTER TESTING THE SYSTEM, IT IS FOUND THAT THE RESISTANCE TO ABSOLUTE EARTH EXCEEDS 5 OHMS, THE CONTRACTOR SHALL INSTALL THE NECESSARY NUMBER OF GROUND RODS TO REDUCE THE RESISTANCE TO LESS THAN 10 OHMS. THESE TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE LOCAL ELECTRICAL INSPECTOR. THE TEST RESULTS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ARCHITECT/ENGINEER.

CIRCUIT BREAKER PANELBOARDS

A. LISTED SERIES RATING OF PANEL BOARDS SHALL BE ACCEPTABLE EXCEPT WHERE NOT PERMITTED BY MOTOR CONTRIBUTION ACCORDING TO NFPA 70. LABEL EQUIPMENT UTILIZING SERIES RATINGS AS REQUIRED BY NFPA 70.

B. MAIN CIRCUIT BREAKER OF THE MAIN DISTRIBUTION PANEL SHALL BE PERMITTED TO BE SERIES RATED WITH UPSTREAM TYPE "JJN" FUSES ON CONDITION THAT APPROPRIATE MANUFACTURER'S LISTING AND LABELING IS PROVIDED.

C. PANELBOARDS SHALL BE OF THE DEAD FRONT SAFETY TYPE. BUS BARS SHALL HAVE ANTI-TURN SOLDERLESS LUG CONNECTIONS FOR ATTACHING FEEDERS. WHERE TWO OR THREE-POLE BREAKERS ARE REQUIRED, THEY SHALL BE COMMON TRIP. PANELBOARDS SHALL BE SQUARE D, SIEMENS, GENERAL ELECTRIC OR EATON CUTLER-HAMMER. THE BASIS OF DESIGN IS SQUARE D "NQ" OR "NF".

D. ALL PANELBOARDS SHALL BE LOCKABLE AND KEYED ALIKE. PANEL BOXES SHALL BE AT LEAST 20 INCHES WIDE.

E. MULTIPLE SECTION PANELBOARDS SHALL COMPRISE OF MATCHING TUBS, SIZED IDENTICALLY AND ABUTTED TO ONE ANOTHER. COVERS AND TRIMS SHALL BE IDENTICAL AND BE SUITABLE FOR SURFACE TUBS AS INDICATED ON THE DRAWINGS.

F. ALL BRANCH CIRCUIT PANELBOARDS SHALL BE CIRCUIT BREAKER TYPE WITH PROVISIONS FOR BOLT-ON TYPE CIRCUIT BREAKERS.

G. CIRCUIT BREAKERS SHALL BE BOLT ON TYPE. SYMMETRICAL SHORT CIRCUIT CAPACITY SHALL MATCH OR EXCEED INDICATED VALUE.

H. PROVIDE FULL SIZE (100% RATED) NEUTRAL BUS; PROVIDE SUITABLE LUGS ON NEUTRAL BUS FOR OUTGOING FEEDERS REQUIRING NEUTRAL CONNECTIONS.

I. PANELS SHALL BE MOUNTED SO THAT TOP OF PANELS ARE AT 6'-0" ABOVE FLOOR WHEN POSSIBLE.

J. A GLAZED DIRECTORY FRAME SHALL BE PROVIDED INSIDE THE DOOR AND SHALL BE OF SUFFICIENT SIZE TO GIVE DESCRIPTION OF EACH CIRCUIT. TYPED DIRECTORY CARDS SHALL BE PROVIDED LISTING EACH CIRCUIT SERVED.

K. IF DOUBLE LUGGING OR OVERSIZED CONDUCTORS ARE REQUIRED, INCREASE THE SIZE OF THE TUB APPROPRIATELY OR PROVIDE A WIREWAY OR SPLICE BOX (FLUSH MOUNTED IF REQUIRED).

L. WHEN WORK IS COMPLETE, BALANCE THE CONTINUOUS LOAD ON EACH PANEL TO WITHIN 10% WITH ACTIVE LOADS OPERATING.

LIGHTING

A. SHALL BE AS SPECIFIED ON THE FIXTURE SCHEDULE.

B. FLUORESCENT FIXTURES SHALL HAVE THERMALLY PROTECTED, HIGH POWER FACTOR (>99%), U.L. LISTED, CLASS P, CBM, ETL, AND CERTIFIED, ONE, TWO, THREE, AND/OR FOUR LAMP (AS REQUIRED), RAPID START, PARALLEL, HIGH FREQUENCY, T-8, ELECTRONIC BALLASTS WITH 5 YEAR MINIMUM WARRANTY.

C. COMPACT FLUORESCENT AND/OR T-5 FLUORESCENT FIXTURES SHALL HAVE THERMALLY PROTECTED, HIGH POWER FACTOR (>98%), U.L. LISTED, CLASS P, CBM, ETL, AND CSA CERTIFIED, ONE TWO, AND/OR THREE LAMP (AS REQUIRED), RAPID START, PARALLEL, HIGH FREQUENCY BALLASTS.

D. PROVIDE ALL LAMPS REQUIRED. AT THE CONCLUSION OF THE WORK, EACH FIXTURE MUST BE EQUIPPED WITH THE PROPER NUMBER OF NEW LAMPS OF THE CORRECT SIZE AND TYPE, ALL IN GOOD OPERATING CONDITION.

E. FLUORESCENT LAMPS SHALL BE T-8, SPX 35, MEDIUM BI-PIN LAMPS WITH A CRI-85 TRI-PHOSPHOR COATING BY G.E., PHILIPS, OR OSRAM/SYLVANIA.

F. COMPACT FLUORESCENT LAMP SHALL CONTAIN AMALGAM ADDITIVES AND BE PROVIDED WITH END OF LIFE PROTECTION. LAMP COLORS SHALL MATCH ALL OTHER FLUORESCENT LAMPS. COLORS SHALL MATCH ALL OTHER FLUORESCENT LAMPS. LAMPS BY G.E., PHILIPS, OR ASRAM/SYLVANIA.

G. ALL FIXTURES SHALL BE SECURELY SUPPORTED WITH APPROVED HANGERS. FIXTURES SHALL BE SUPPORTED FROM STRUCTURAL CEILING OR STRUCTURAL SUPPORTS, NOT SUSPENDED CEILING SUPPORTS. FLUORESCENT RECESSED FIXTURES MUST BE SUPPORTED AT THE FOUR CORNERS AND SECURED TO SUSPENDED CEILING SUPPORTS IN ACCORDANCE WITH THE N.E.C. SURFACE MOUNTED FIXTURES MUST HAVE ADDITIONAL CEILING SUPPORT AS ACCEPTABLE BY THE ARCHITECT.

H. THIS CONTRACTOR SHALL INSURE THAT SIMILAR LAMP TYPES ARE OF THE SAME MANUFACTURER AND COLOR TEMPERATURE AND THAT FIXTURES AND LAMPS ARE COMPATIBLE.

I. ALL LAMPS SHALL BE OPERATIONAL AT TIME OF OCCUPANCY.

J. COORDINATE EXIT SIGN MOUNTING LOCATIONS WITH DOOR ARRANGEMENTS. CONNECT EXIT SIGNAGE AND EGRESS LIGHTING TO LOCAL UNSWITCHED POWER SOURCE PER STATE AND LOCAL CODE. CONNECT FIXTURES DESIGNATED AS NIGHT LIGHTS TO UNSWITCHED CIRCUIT(S) TO OPERATE CONTINUOUSLY.

K. INSURE THAT ALL WALL-MOUNTED FIXTURES ARE COMPLIANT AND INSTALLED IN CONFORMANCE WITH ADA REQUIREMENTS.

COMMUNICATION (TELEPHONE/DATA) SYSTEMS

A. THE CONTRACTOR SHALL PROVIDE TELEPHONE-DATA/TELEVISION OUTLET BOXES, AND MISCELLANEOUS FITTINGS AND MATERIALS. OWNER'S SYSTEM SUPPLIER SHALL FURNISH TELEPHONE-DATA/TELEVISION EQUIPMENT, TERMINALS, JACKS, COVERPLATES, CABLING, CABLE TERMINATIONS AND THE ASSOCIATED LABOR.

B. ELECTRICAL CONTRACTOR TO PROVIDE TELEPHONE SERVICE CONDUIT OR DUCT TO TELEPHONE BOARD AS SHOWN ON PLANS. SERVICE CONDUIT SIZE AND QUANTITY SHALL BE AS DETERMINED BY LOCAL TELEPHONE AND TELEVISION COMPANY.

C. PROVIDE FIRE-RETARDANT TREATED, PAINTED WHITE PLYWOOD TERMINAL BOARD AT LOCATIONS SHOWN ON DRAWINGS. PROVIDE GROUND BUS ON PLYWOOD AND GROUND EQUIPMENT.

D. COMBINATION TELEPHONE/DATA OUTLET BOXES SHALL BE SINGLE OR DOUBLE GANG WITH PLASTER RING. TELEPHONE ONLY, TELEVISION, DATA, FAX, ETC. OUTLETS SHALL BE SIMILAR. THE BLANK COVERPLATE SHALL BE PROVIDED FOR ALL UNUSED OUTLETS.

SPRINKLER MONITORING SYSTEM (IF REQUIRED)

1. IT IS THE INTENT FOR THE ELECTRICAL CONTRACTOR TO INCLUDE ALL MATERIALS AND RELATED LABOR TO EXTEND, MODIFY AND/OR REPLACE THE EXISTING SPRINKLER MONITORING SYSTEM IN THE BASE BID OR CONTRACT PRICE. UPON THE COMPLETION OF THE PROJECT, THE SYSTEM SHALL BE COMPLETE AND FULLY FUNCTIONAL IN ACCORDANCE WITH THE MANUFACTURER'S AND THE AUTHORITY HAVING JURISDICTION. THIS WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING; WIRING, CONDUIT, TERMINATIONS, ELECTRICAL BOXES, SYSTEM COMPATIBLE DEVICES, SYSTEM PROGRAMMING, TESTING, ETC. THE TESTING SHALL BE PERFORMED AND DOCUMENTED IN ACCORDANCE WITH LOCAL FIRE MARSHAL OR FIRE DEPARTMENT.
2. THIS SCOPE SHALL INCLUDE ALL WORK REQUIRED FOR THE SYSTEM EXPANSION IN COMPLIANCE WITH THE SYSTEM MANUFACTURER'S REQUIREMENTS AND STANDARDS IN ADDITION TO EQUIPMENT AS DIRECTED BY THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE.
3. CERTIFICATION FROM THE AUTHORITY HAVING JURISDICTION (AHJ) MUST BE OBTAINED PRIOR TO THE COMMENCEMENT OF WORK.
4. THE FIRE ALARM SYSTEM SHALL BE LISTED AS A PRODUCT OF A SINGLE FIRE ALARM SYSTEM MANUFACTURER AND SHALL BE U.L. APPROVED IN CONFORMANCE WITH THE N.E.C., N.F.P.A., ALL STATE/LOCAL CODES AND THE AMERICAN'S WITH DISABILITIES ACT (ADA).
5. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS TO THE LOCAL FIRE MARSHALL INDICATING BATTERY CALCULATIONS, WIRING DIAGRAMS, LOCATIONS, ETC. FOR APPROVAL PRIOR TO CONSTRUCTION AND/OR INSTALLATION IN ACCORDANCE WITH THE STATE AND LOCAL BUILDING CODES. SHOP DRAWINGS BEARING THE FIRE MARSHALL STAMP OF APPROVAL SHALL BE PRESENT ON THE JOB SITE AT ALL TIMES
6. ALL LOW VOLTAGE WIRING SHALL BE U.L. PLENUM RATED AND INSTALLED IN COMPLIANCE WITH N.E.C. SECTIONS #300.22 AND #760.30(B)(1).

THIS SHEET IS PART OF THE CONSTRUCTION DOCUMENTS, OTHER SHEETS INCLUDING SPECIFICATIONS APPLY. THAT SHOWN HEREON IS SCHEMATIC IN NATURE AND NOT TO BE USED AS A SHOP DRAWING; THEREFORE, INCLUDE ALL MODIFICATIONS REQUIRED TO CONFORM TO SITE CONDITIONS AND THE EQUIPMENT AND MATERIAL USED. VERIFY LOCATIONS AND DIMENSIONS OF ALL ARCHITECTURAL AND STRUCTURAL ELEMENTS AS SHOWN ON THEIR RESPECTIVE DOCUMENTS, THESE ELEMENTS ARE SHOWN FOR REFERENCE AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND THE ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OF THESE ELEMENTS. NO DESIGN RESPONSIBILITY IS ASSUMED FOR ANY PORTION OF THE WORK THAT THE PROFESSIONAL ENGINEER HAS NOT SIGNED AND SEALED PER STATE/PROVINCE REQUIREMENTS.

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REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

SEAL:

ISSUED FOR: 75% CONSTRUCTION DOCUMENTS
ISSUED DATE: 05.15.2019

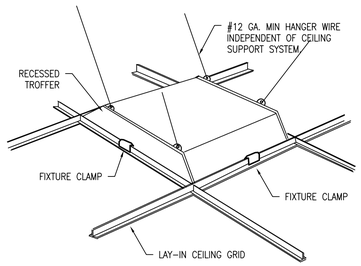
DRAWN BY: AAI

CHECKED BY: ATF

PROJECT NUMBER: 2319131

DRAWING NAME:
ELECTRICAL SPECIFICATIONS

DRAWING NO.
E001

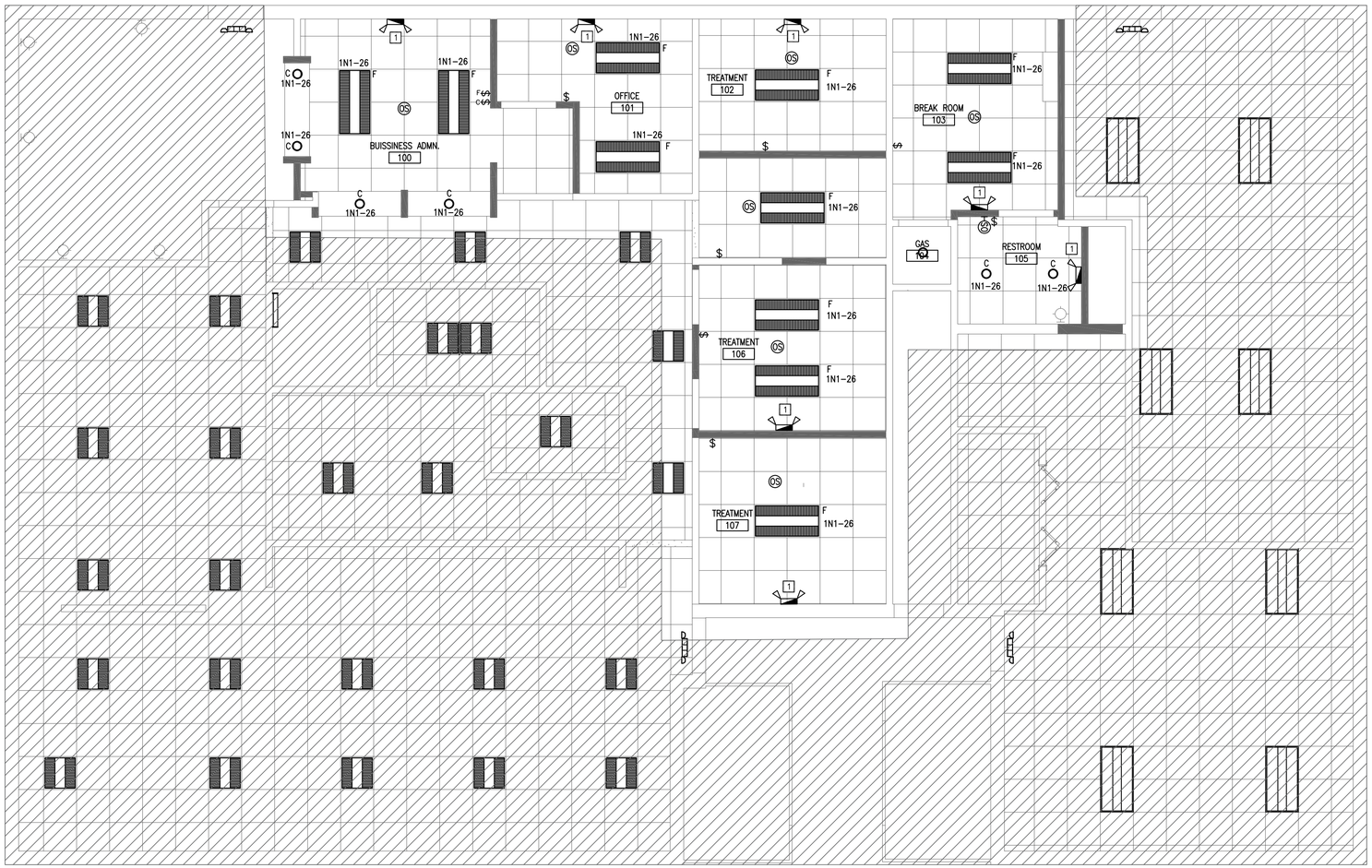


2 RECESSED FIXTURE MOUNTING
SCALE: NOT TO SCALE

NOTE:

COLOR OF SWITCH COVER PLATES SHALL BE COORDINATED WITH WALL FINISH:
- WHITE IS STANDARD COLOR THROUGHOUT
- DARK BROWN COLOR IS REQUIRED FOR DARK LAMINATE PANELS.

IF THERE ARE ANY DISCREPANCIES CONTRACTOR SHALL CONTACT ARCH PRIOR TO PURCHASE.



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

GENERAL NOTES

1. PROVIDE ALL WORK REQUIRED AND COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES, ORDINANCES, ETC.
2. SEE LIGHTING FIXTURE SCHEDULE ON SHEET E201 FOR INFORMATION.
3. EXIT SIGNS AND EMERGENCY LIGHTS SHALL HAVE THEIR OWN SELF-CONTAINED STANDBY BATTERY POWER SUPPLY (90 MIN.) WITH LOAD CONNECTED OPERATING.
4. CONNECT ALL NIGHT LIGHTING, EMERGENCY LIGHTS AND EXIT SIGNS TO LOCAL AREA LIGHTING CIRCUIT, AHEAD OF ALL SWITCHING / CONTROL, CKT. NOTED..
5. LUMINARIES INSTALLED IN CONTINUOUS ROWS SHALL BE GROUNDED WITH A CONDUCTOR ROUTED FROM LUMINAIRE TO LUMINAIRE, MOUNTED TO EACH WITH GROUNDING LUG OR SCREW. ALIGNING CLIPS ARE NOT ACCEPTABLE. LUMINAIRE GROUNDING SHALL BE INSTALLED IN COMPLIANCE WITH NATIONAL ELECTRICAL CODE, ARTICLE 410.
6. CEILING LIGHTS ARE TO BE WIRED TO THE BAR JOIST MEMBERS AT THE DIAGONAL CORNERS.
7. CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT), RIGID STEEL (SIZE PER NEC), AND MC CABLE, (MAX. 6FT LONG) FOR FINAL CONNECTION TO LIGHTING FIXTURES, WHERE ALLOWED BY LOCAL CODE.
8. COORDINATE LIGHTING WITH ALL OTHER TRADES.
9. VERIFY ALL ELECTRICAL EQUIPMENT REQUIREMENTS AND INSTALL PER MANUFACTURER INSTRUCTIONS.

KEYED NOTES

1. CIRCUIT NIGHT LIGHTS, EMERGENCY LIGHTS AND EXIT SIGNS TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT SERVING THE SPACE.

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REVISIONS:

REV	DATE	DESCRIPTION/COMMENTS

SEAL:

ISSUED FOR: 75% CONSTRUCTION DOCUMENTS
ISSUED DATE: 05.15.2019

DRAWN BY: AAI
CHECKED BY: ATF
PROJECT NUMBER: 2319131

DRAWING NAME:
ELECTRICAL LIGHTING PLAN

DRAWING NO.
E101

NOT FOR CONSTRUCTION

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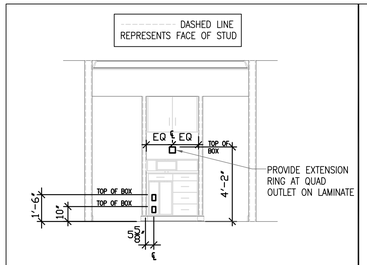
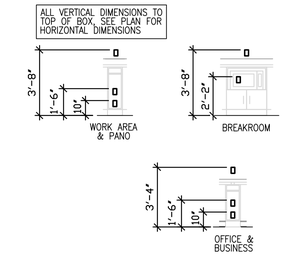


2 TREATMENT ELECTRICAL ELEV
SCALE: 1/4" = 1'-0"



3 TYPICAL ELECTRICAL ELEV
SCALE: 1/4" = 1'-0"

EQUIPMENT FEEDER SCHEDULE

EQUIPMENT MARK	VOLTAGE-PHASE	PANEL – CIRCUIT(S)	MOCP	FEEDER		DISCONNECT					REMARKS
				CONDUCTOR & GROUND	PIPE	PROVIDER	AMPERAGE	POLES	FUSES	NEMA	
HP-1	240V-1P	1P2-30,32	15A	(2)#12 & (1)#12G	1/2"	INTEGRAL	–	–	NF	–	–
AC-1	240V-1P	–	15A	(2)#12 & (1)#12G	1/2"	INTEGRAL	–	–	NF	–	–
EF-1	120V-1P	1P2-34	15A	(2)#12 & (1)#12G	1/2"	INTEGRAL	–	–	NF	–	–

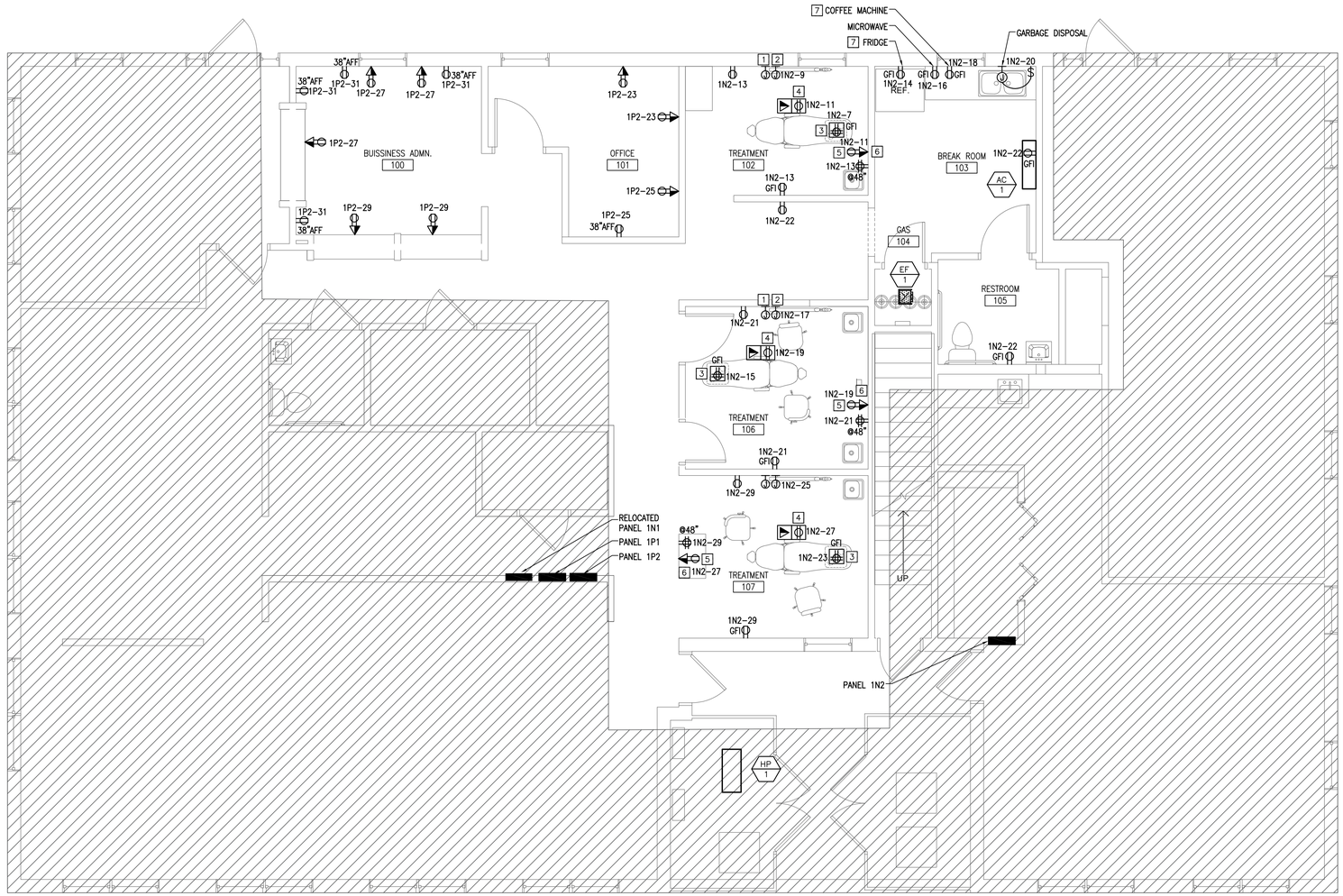
EQUIPMENT FEEDER GENERAL NOTES

A. DISCONNECT SWITCHES FOR 120V OR 277V EQUIPMENT UNDER 30 AMPS SHALL BE MOTOR RATED TOGGLE SWITCHES.

B. CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT.

C. COORDINATE EXACT ROUGH-IN LOCATIONS PRIOR TO START OF CONSTRUCTION.

D. ALL MULTI-VOLT DISCONNECT SWITCHES PROVIDED BY THIS CONTRACTOR SHALL COME WITH A NEUTRAL AND GROUND LUG KIT.



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

GENERAL NOTES

1. ALL WORK SHOWN SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES, ORDINANCES, ETC.
2. REFERENCE TO HEIGHT OF OUTLET OR RECEPTACLE SHALL BE MEASURED FROM FINISHED FLOOR TO CENTER OF OUTLET OR RECEPTACLE.
3. ALL RECEPTACLES SHALL BE GROUNDING TYPE.
4. ALL RECEPTACLES AND SWITCHES SHALL HAVE TWO (2) REVOLUTIONS OF ELECTRICAL TAPE (SCOTCH 33+) OVER ALL THE TERMINALS, TO PREVENT ACCIDENTAL CONTACT WITH THE JUNCTION BOX OR OUTLET BOX.
5. CONDUIT SIZE TO BE PER NEC. PVC CONDUIT AND FITTINGS ARE ACCEPTABLE ONLY BELOW SUBBASE MATERIAL OF GROUND BEARING FLOOR SLABS WHERE SUCH USE IS ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
6. CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT), RIGID STEEL (SIZE PER NEC), OR MC CABLE WHERE ALLOWED BY CODE. SECURE MC CABLE PER NEC ART. 330.
7. PROVIDE JUNCTION BOX, CONDUIT STUB-UP ABOVE CEILING AND PULL STRING FOR ALL LOW VOLTAGE CABLING. PROVIDE 1" CONDUIT FOR ALL TREATMENT, HYGIENE, AND SURGICAL ROOMS. ALL OTHER LOW VOLTAGE CONDUIT SHALL BE 3/4"
8. DIMENSION IS FROM FINISHED WALL, SEE ARCHITECTURAL FOR WALL THICKNESS.
9. FIELD COORDINATE EXACT LOCATION OF OUTLETS AS DETERMINED BY THE ACTUAL FURNITURE LAY OUT. VERIFY WITH FIXTURE PLAN.
10. COORDINATE WITH OTHER DISCIPLINES FOR ELECTRICAL REQUIREMENTS OF EQUIPMENT NOT SHOWN ON DETAILS (i.e. ROOF-TOP UNITS, UNIT HEATERS, FANS, ETC.).
11. CONTRACTOR SHALL WIRE AREAS PER NEC, ARTICLE 517 AS REQUIRED.
12. ALL ELECTRICAL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMAN LIKE MANNER. CONTRACTOR(S) SHALL BE FAMILIAR LOCAL CODES AND ORDINANCES GOVERNING ELECTRICAL INSTALLATIONS.
13. SIGN CIRCUITS SHALL HAVE A GREEN GROUNDING CONDUCTOR PER UL 48.
14. PROVIDE LOW VOLTAGE CABLE FOR X-RAY BUTTONS, REMOTE WATER CONTROL VALVE, VACUUM & COMPRESSOR. PATTERSON TO MAKE FINAL TERMINATIONS. THE ONLY CABLE PATTERSON FURNISHES IS THE N20 ALARM CABLE.
15. VERIFY ALL ELECTRICAL EQUIPMENT REQUIREMENTS AND INSTALL PER MANUFACTURER INSTRUCTIONS.

KEYED NOTES

1. DEDICATED CIRCUIT FOR X-RAY EQUIPMENT, COORDINATE CONNECTION LOCATION WITH EQUIPMENT SUPPLIER.
2. PROVIDE JUNCTION BOX FOR DATA CONNECTION AT X-RAY MACHINE. SEE SHEET A503, DETAIL 1 FOR MORE INFORMATION.
3. DENTAL EQUIPMENT CONTROL PANEL (3-BUTTON REMOTE E-14). WIRE TO START/MONITOR VACUUM, AIR COMPRESSOR AND WATER SOLENOID. COORDINATE WITH DENTAL EQUIPMENT SUPPLIER.
4. PROVIDE CONNECTION FOR MONITOR AND DENTAL EQUIPMENT WITH MOUNT. PROVIDE HARDWARE CONNECTION PER CODE AND COORDINATE CONFIGURATION AND LOCATION WITH MOUNT (TYPICAL @ CEILING MONITOR ARM).
5. STACK DEVICES IN CABINETRY. COORDINATE ARCHITECTURAL ELEVATIONS FOR SPECIFICS. FIELD VERIFY DISTANCE BETWEEN SINK AND FINAL LOCATION OF RECEPTACLE. IF LESS THEN 6' FROM SINK PROVIDE G.F.I. TYPE RECEPTACLE.
6. PROVIDE 1" CONDUIT FOR TELEVISION. COORDINATE ROUGH IN AND CONNECTION FOR WALL MOUNTED TELEVISION, MOUNT AT 80" AFF OR ON ANGLED SOFFIT.
7. MOUNT RECEPTACLE BELOW COUNTER 18" AFF FOR REFRIGERATOR AND OTHER RECEPTACLE ABOVE COUNTER 42" AFF FOR COFFEE MAKER.

NOTE:

ANY PATIENT ROOM HAVING N20 GAS WILL BE CLASSIFIED AS OTHER-THAN-HAZARDOUS IN ACCORDANCE WITH 517.61(C) AND WILL REQUIRE HOSPITAL GRADE RECEPTACLES FOR ALL 2 POLE 3 WIRE GROUNDING TYPE FOR SINGLE PHASE 120V SERVICE.

A. COLOR OF SWITCH COVER PLATES SHALL BE COORDINATED WITH WALL FINISH:
   * WHITE IS STANDARD COLOR THROUGHOUT
   * DARK BROWN COLOR IS REQUIRED FOR DARK LAMINATE PANELS. IF THERE ARE ANY DISCREPANCIES CONTRACTOR SHALL CONTACT ARCH PRIOR TO PURCHASE.

B. ALL BRANCH CIRCUITS SERVING PATIENT CARE AREAS SHALL BE INSTALLED IN A METAL RACEWAY SYSTEM WITH AN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR PER NEC 517.13. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE CONNECTED TO THE GROUNDING TERMINALS OF ALL RECEPTACLES, METAL BOXES AND ENCLOSURES CONTAINING RECEPTACLES AND ALL CONDUCTIVE SURFACES OF FIXED ELECTRICAL EQUIPMENT OPERATING AT OVER 100 VOLTS.

C. RECEPTACLES LOCATED WITHIN PATIENT ROOMS AND BATHROOMS SHALL BE LISTED TAMPER-RESISTANT OR SHALL EMPLOY A LISTED TAMPER-RESISTANT COVER PER NEC 517.18.

THIS SHEET IS PART OF THE CONSTRUCTION DOCUMENTS, OTHER SHEETS INCLUDING SPECIFICATIONS APPLY. THAT SHOWN HEREON IS SCHEMATIC IN NATURE AND NOT TO BE USED AS A SHOP DRAWING; THEREFORE, INCLUDE ALL MODIFICATIONS REQUIRED TO CONFORM TO SITE CONDITIONS AND THE EQUIPMENT AND MATERIAL USED. VERIFY LOCATIONS AND DIMENSIONS OF ALL ARCHITECTURAL AND STRUCTURAL ELEMENTS AS SHOWN ON THEIR RESPECTIVE DOCUMENTS, THESE ELEMENTS ARE SHOWN FOR REFERENCE AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND THE ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OF THESE ELEMENTS. NO DESIGN RESPONSIBILITY IS ASSUMED FOR ANY PORTION OF THE WORK THAT THE PROFESSIONAL ENGINEER HAS NOT SIGNED AND SEALED PER STATE/PROVINCE REQUIREMENTS.
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REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

SEAL:

ISSUED FOR: 75% CONSTRUCTION DOCUMENTS
ISSUED DATE: 05.15.2019

DRAWN BY: AAI

CHECKED BY: ATF

PROJECT NUMBER: 2319131

DRAWING NAME:
ELECTRICAL POWER PLAN

DRAWING NO.
E201

NOT FOR CONSTRUCTION

Plot Date: 5/31/2019 1:33:31 PM Dwg Filename: Y:_Projects\Active\2019\01\201941.02\01201941.02 Drawings\INT_E201.dwg

NOT FOR CONSTRUCTION

LEGEND

$	SINGLE POLE TOGGLE SWITCH
$_2$	TWO POLE TOGGLE SWITCH
$_3$	THREE-WAY TOGGLE SWITCH
OS	CEILING MOUNTED OCCUPANCY SWITCH
WOS	WALL MOUNTED OCCUPANCY SWITCH
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	QUADRUPLEX RECEPTACLE
	HARD WIRED
	SPECIAL PURPOSE RECEPTACLE (AS NOTED)
	TELEPHONE OUTLET
	DATA OUTLET
	VOICE/DATA COMBINATION OUTLET
	SYMBOL IN SQUARE DENOTES FLOORMOUNTED
	SHADING IN RECEPTACLE DENOTES ISOLATED GROUND
J	JUNCTION BOX
	MOTOR, FAN, PUMP OR AIR CONDITIONING UNIT
	LIGHTING AND/OR POWER PANELBOARD
	DISCONNECT SWITCH, RATING AS NOTED.
	NON-FUSED DISCONNECT SWITCH, RATING AS NOTED.
F	FIRE ALARM PULL STATION NOM. 42" A.F.F. PER ADA
F	FIRE ALARM AUDIO/VISUAL STATION 80" A.F.F. PER ADA
F	FIRE ALARM VISUAL STATION 80" A.F.F. PER ADA
RI	REMOTE INDICATOR LIGHT/TEST SWITCH FOR DUCT SMOKE DETECTORS
S	DUCT SMOKE DETECTOR WITH REMOTE INDICATOR LIGHTS AND TEST SWITCH
SD	SMOKE DETECTOR
FS	FLOW SWITCH
T	THERMOSTAT
FACP	FIRE ALARM CONTROL PANEL
****	FIRE ALARM ANNUNCIATOR PANEL

ABBREVIATIONS

WP	WEATHERPROOF
AFF	ABOVE FINISHED FLOOR
UNO	UNLESS NOTED OTHERWISE
GFI	GROUND FAULT INTERRUPT
O.C	ON CENTER
ETR	EXISTING TO REMAIN
CT	COUNTER TOP

STANDARD MOUNTING HEIGHTS

A.F.F (IN.)	DESCRIPTION
84"	AUDIBLE APPLIANCES
48"	ALARMS
48"	ANNUNCIATOR PANELS
84"	CLOCK OUTLETS (CENTERLINE)
48"	CONTROLS (CENTERLINE)
80"	EXIT SIGNS (WALL MOUNTED, BOTTOM)
60"	FIRE ALARM ANNUNCIATOR PANEL (DISPLAY)
120"	FIRE ALARM BELL (EXTERIOR)
60"	FIRE ALARM CONTROL PANEL/UNIT (DISPLAY)
36"	INTERCOM (AREA ONLY)
48"	INTERCOMS
72"	PANELS/PANELBOARDS (TOP)
48"	PULL STATIONS (HANDLE)
144"	PHOTOCELLS
18"	RECEPTACLES (CENTERLINE)
24"	RECEPTACLES (EXTERIOR)
26"	RECEPTACLES (GARAGES)
48"	RECEPTACLES IN EQUIPMENT ROOMS
48"	REMOTE INDICATING LIGHT (EQUIPMENT ROOMS)
CEILING	REMOTE INDICATING LIGHT (FINISHED AREAS)
48"	SAFETY SWITCHES
48"	STARTERS
48"	SWITCHES (CENTERLINE)
10@48",10@36"	TELEPHONES (PUBLIC)
18"	TELEPHONE DATA OUTLETS (CENTERLINE)
6"	TELEPHONE TERMINAL BOARD (BOTTOM)
18"	TELEVISION OUTLETS
84"	VISIBLE APPLIANCES (CENTERLINE)

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	LAMP DATA			BALLAST DATA		DESCRIPTION	REMARKS
			QTY.	TYPE	WATTS	QTY.	TYPE		
C	LITHONIA	REAL6C D6MW ESL 1000L 3000K		LED	14.2		N/A	6" RECESSED DOWNLIGHT	1,2
F	INDY	S2X4BL-55-40-U-WH-3		LED	53		N/A	2'x4' LED LOW-PROFILE RECESSED LUMINAIRE WITH BASKET DIFFUSER	1,2
Y	DUAL-LITE	LZ SERIES		INCLUDED	10		N/A	LOW-PROFILE EMERGENCY LIGHTING UNIT. TWO (2) SEMI-RECESSED, ADJUSTABLE "EYEBALL" HEADS WITH GLASS LENS. MAINTENANCE-FREE BATTERY FOR 90 MINUTE OPERATION OF LAMPS. INTEGRAL TEST SWITCH AND AC-ON LIGHT.	1

REMARKS
1. OWNER TO FURNISH FIXTURE & LAMP, INSTALLED BY CONTRACTOR. CONTRACTOR PROVIDES AND INSTALLS ANY ADDITIONAL HARDWARE NOT INCLUDED WITH FIXTURE. QUANTITY AND DELIVERY DATE TO BE COORDINATED WITH OWNER REP.
2. TO ENSURE IECC COMPLIANCE, LED LAMP MUST BE INSTALLED. WATTAGE OF LED LAMP MUST NOT EXCEED THE WATTAGE VALUE ON SCHEDULE.

GENERAL NOTES (APPLICABLE TO ALL FIXTURES):
1. ALL FIXTURES UTILIZING LINEAR FLORESCENT LAMPS SHALL COMPLY WITH NEC 410.130(G) REQUIREMENTS FOR DISCONNECTING MEANS.
2. ALL BALLASTS FOR FLUORESCENT FIXTURES SHALL BE PROGRAMMED START.
3. REFER TO ARCH. SHEET A201 FOR LIGHT FIXTURES FINISH SELECTION.

NEW EQUIPMENT SCHEDULE

GENERAL							ELECTRICAL					MISC.
ITEM	DESCRIPTION	MFGR.	SIZE/MODEL NUMBER	FURN. BY	INST. BY	CONN. BY	VOLT	PHASE	AMPS	HP	ROUGH-IN HEIGHT	REMARKS
A-09	ELECTRIC HAND DRYER	BOBRICK	B-7128	OWNER	GC	GC	115	1	15			COORDINATE MOUNTING HEIGHT WITH MANUFACTURER RECOMMENDATION
A-11	COMP. REFRIGERATOR	–	–	OWNER	OWNER	GC	120	1	1.3			STAINLESS STEEL FINISH
A-12	REFRIGERATOR 18 CU FT.	–	–	OWNER	OWNER	GC	115	1	6.5			
A-13	MICROWAVE OVEN 1.5 CU FT.	–	–	OWNER	OWNER	GC	120	1	14.5			
A-14	COFFEE BREWER	KEURIG	B140 OFFICE PRO	OWNER	OWNER	OWNER	120	1	15			
A-15	AFFINITY 3.3 CU. FT. WASHER	FRIGIDAIRE	FAFW3801LW	OWNER	GC	GC	120	1	8.0			WHITE FINISH
A-16	AFFINITY 7.0 CU. FT. DRYER	FRIGIDAIRE	FAQE7001LW	OWNER	GC	GC	240	1	24			
E-03	3-GALLON ULTRASONIC CLEANER	PATTERSON	MAXISWEEP 3100	PATTERSON	PATTERSON	GC	117	1	4.4			
E-05	AIR COMPRESSOR	AIR TECHNIQUES	AIRSSTAR 70	PATTERSON	PATTERSON	GC	200/250	1	24	4.0		
E-06	DRY VACUUM SYSTEM	AIR TECHNIQUES	MOJAVE 2V5	PATTERSON	PATTERSON	GC	200/250	1	17	4.6		
–	VACUUM EQUALIZER	AIR TECHNIQUES	P/N 56200	PATTERSON	PATTERSON	GC	120	1	1.0			
E-07	REMOTE WATER CONTROL VALVE	AIR TECHNIQUES	CUSTOM	PATTERSON	*	PATTERSON	115	1				*WIRING FOR WATER SOLENOID IS BY EC WITH CONNECTION BY PATTERSON
E-08	SENTINEL SYSTEM MANIFOLD	PARKER PORTER	3222 CX	PATTERSON	PATTERSON	GC	115	1				PROVIDE DEDICATED CIRCUIT. MANUFACTURER VERIFIED WILL WORK ON 208V.
E-11	INTRAORAL X-RAY SYSTEM	INSTRUMENTARIUM DENTAL	FOCUS INTRAORAL	OWNER	PATTERSON	GC	120	1	8			SEE 1/A503 FOR WALL BLOCKING DETAILS
E-13	STERILIZER	MIDMARK	M11	PATTERSON	PATTERSON	GC	110	1	12			
E-14	CONTROL PANEL (3 SWITCH)	AIR TECHNIQUES	P/N 53133	PATTERSON	GC	PATTERSON	120	1				
E-15	SENTINEL SYSTEM WALL ALARM	PARKER PORTER	3222 CX	PATTERSON	PATTERSON	GC	–					
E-18	PATIENT CHAIR	PELTON AND CRANE	1700 ENTERPRISE	OWNER	PATTERSON	PATTERSON	115	1	20			MOUNTED TO CEILING ARM MOUNT
E-23	TANKLESS GAS WATER HEATER	RINNAI RL94i	VC2837WD-8US	GC	GC	GC	115	1	2.0			PROVIDE DEDICATED CIRCUIT. MANUFACTURER VERIFIED WILL WORK ON 208V.
E-24	WALL-MOUNTED AIR CONDITIONER	MITSUBISHI ELECTRIC	MSY-GA09NA	GC	GC	GC	208/230	1	1.0			SEE MECH. DRAWINGS
E-25	A/C CONDENSING UNIT	MITSUBISHI ELECTRIC	MUY-GA09NA	GC	GC	GC	208/230	1	12			MOUNTED ON ROOF
H-02	19" LED MONITOR	PHILIPS	19PFL4505D	OWNER	OWNER	GC	115	1				WHITE FINISH
H-05	DIGITAL PANORAMIC SYSTEM	CARESTREAM DENTAL	CS 8100	OWNER	OWNER	GC	208	1	20			SEE 2/A402 FOR WALL BLOCKING DETAILS

NOTE:
GENERAL LIGHTING FIXTURES TO BE FURNISHED BY OWNER FROM SPECIALTY LIGHTING GROUP, AND INSTALLED BY CONTRACTOR; CONTACT MEGHAN DONOGHUE (PHONE : 860-767-0110 EXT232) OR (EMAIL : MKD@SSLIGHTING.COM) TO ORDER MATERIALS.

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REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

SEAL:

ISSUED FOR: 75% CONSTRUCTION DOCUMENTS
ISSUED DATE: 05.15.2019

DRAWN BY: **AAI**
CHECKED BY: **ATF**
PROJECT NUMBER: 2319131

DRAWING NAME:
ELECTRICAL SCHEDULES

DRAWING NO.
E301

Plot Date: 6/7/2019 10:37:59 AM Dwg Filename: Y:_Projects\Active\2019\01201941.02\01201941.02 Drawings\INT_E300.dwg

NOT FOR CONSTRUCTION

PANEL: 1P1 (EXISTING) — LOCATION: EXISTING — NEMA ENCLOSURE: EXISTING
SYSTEM: 240/120V., 1P,3W — MAINS: 200 A — CABINET MOUNTING: SURFACE
FEEDER: SEE RISER DIAGRAM — LUGS: EXISTING
OPTIONS: — AIC RATING: EXISTING

LOAD DESCRIPTION	BKR SIZE	BKR POLE	NOTE	WATTS	CCT NO.	PHASE	CCT NO.	WATTS	NOTE	BKR POLE	BKR SIZE	LOAD DESCRIPTION
AHU-1	*40*	*2*		*3072*	1	A	2	*3,072*		*2*	*40*	*CU-2*
				3,072	3	C	4	*3,072*				
AHU-2	*70*	*2*		*5,376*	5	A	6	*2,300*		*2*	*30*	*CU-1*
				5,376	7	C	8	*2,300*				
WH	*30*	*2*		*2,280*	9	A	10	*1,440*		*2*	*20*	*PANORAMA X-RAY*
				2,280	11	C	12	*1,440*				
NITROUS OXIDE, OXYGEN	*20*	*1*		*720*	13	A	14	*2,300*		*2*	*30*	*AIR COMPRESSOR*
AUTOCLAVE	*20*	*1*		*1,440*	15	C	16	*2,300*				
SPARE	*20*	*1*			17	A	18	*2,300*		*2*	*30*	*VACUUM*
SPARE	*20*	*1*			19	C	20	*2,300*				
		1			21	A	22	*2,250*		*2*	*30*	*WASHER/DRYER*
		1			23	C	24	*2,250*				
		1			25	A	26			*2*	*30*	*SPARE*
		1			27	C	28					
		1			29	A	30		1			
		1			31	C	32		1			
		1			33	A	34		1			
		1			35	C	36		1			
		1			37	A	38		1			
		1			39	C	40		1			
		1			41	A	42		1			

PHASE A : 25,110 W — PHASE C : 25,830 W

CONNECTED	DEMAND
50,940 W	45,350 W
212 A	189 A

Y:_Projects\Active\2019\01201941.02\01201941.02.Calcs and Support\MEP Coordinat

PANEL: 1P2 (EXISTING) — LOCATION: EXISTING — NEMA ENCLOSURE: EXISTING
SYSTEM: 240/120V., 1P,3W — MAINS: 200A — CABINET MOUNTING: SURFACE
FEEDER: SEE RISER DIAGRAM — LUGS: TOP
OPTIONS: — AIC RATING: EXISTING

LOAD DESCRIPTION	BKR SIZE	BKR POLE	NOTE	WATTS	CCT NO.	PHASE	CCT NO.	WATTS	NOTE	BKR POLE	BKR SIZE	LOAD DESCRIPTION
XRC	*20*	*1*	EX	*960*	1	A	2	*960*	EX	*1*		*FSC*
XRC	*20*	*1*	EX	*960*	3	C	4	*960*	EX	*1*		*FSC*
XRC	*20*	*1*	EX	*960*	5	A	6	*960*	EX	*1*		*FSC*
XRC	*20*	*1*	EX	*960*	7	C	8	*960*	EX	*1*		*FSC*
RECEPTACLES	*20*	*1*	EX	*1,080*	9	A	10	*960*	EX	*1*		*FSC*
RECEPTACLES	*20*	*1*	EX	*1,080*	11	C	12	*960*	EX	*1*		*FSC*
RECEPTACLES	*20*	*1*	EX	*1,080*	13	A	14	*960*	EX	*1*		*FSC*
RECEPTACLES	*20*	*1*	EX	*1,440*	15	C	16	*960*	EX	*1*		*FSC*
RECEPTACLES	*20*	*1*	EX	*1,440*	17	A	18	*960*	EX	*1*		*FSC*
RECEPTACLES	*20*	*1*	EX	*1,440*	19	C	20	*960*	EX	*1*		*FSC*
RECEPTACLES	*20*	*1*	EX	*1,440*	21	A	22	*960*	EX	*1*		*FSC*
OFFICE RECEPTACLE	*20*	*1*	EX	360	23	C	24	*960*	EX	*1*		*FSC*
OFFICE RECEPTACLE	*20*	*1*	EX	360	25	A	26	*960*	EX	*1*		*FSC*
OFFICE RECEPTACLE		1		360	27	C	28	*960*	EX	*1*		*FSC*
OFFICE RECEPTACLE		1		360	29	A	30	900	HACR	2	15	HP-1
OFFICE RECEPTACLE		1		360	31	C	32	900				
OFFICE RECEPTACLE		1		360	33	A	34	58	HACR	1	15	EF-1
		1			35	C	36			1		
		1			37	A	38			1		
		1			39	C	40			1		
		1			41	A	42			1		

PHASE A : 15,718 W — PHASE C : 14,580 W

CONNECTED	DEMAND
30,298 W	21,093 W
126 A	88 A

Y:_Projects\Active\2019\01201941.02\01201941.02.Calcs and Support\MEP Coordinat

PANEL: 1N1 (EXISTING) — LOCATION: EXISTING — NEMA ENCLOSURE: EXISTING
SYSTEM: 240/120V., 1P,3W — MAINS: 200 A — CABINET MOUNTING: SURFACE
FEEDER: SEE RISER DIAGRAM — LUGS: EXISTING
OPTIONS: — AIC RATING: EXISTING

LOAD DESCRIPTION	BKR SIZE	BKR POLE	NOTE	WATTS	CCT NO.	PHASE	CCT NO.	WATTS	NOTE	BKR POLE	BKR SIZE	LOAD DESCRIPTION
LIGHTING	*20*	*1*	EX	*1560*	1	A	2	*960*	EX	*2*	*20*	*SITE LIGHTING*
LIGHTING	*20*	*1*	EX	*1,200*	3	C	4	*960*				
LIGHTING	*20*	*1*	EX	*1,440*	5	A	6	*840*	EX	*1*	*20*	*EXTERIOR LIGHTING*
EF-3	*20*	*1*	EX	*240*	7	C	8	*360*	EX	*1*	*20*	*EXTERIOR LIGHTING*
CEILING FANS	*20*	*1*	EX	*1,440*	9	A	10	*240*	EX	*1*	*20*	*STAR LIGHTING*
LIGHTING	*20*	*1*	EX	*840*	11	C	12	*960*	EX	*1*	*20*	*RECEPTACLES GFI*
DENTAL TRACK LIGHT	*20*	*1*	EX	*960*	13	A	14	*1,440*	EX	*1*	*20*	*RECEPTACLES GFI*
DENTAL TRACK LIGHT	*20*	*1*	EX	*960*	15	C	16	*1,440*	EX	*1*	*20*	*RECEPTACLES GFI*
DENTAL TRACK LIGHT	*20*	*1*	EX	*960*	17	A	18	*1,440*	EX	*1*	*20*	*RECEPTACLES GFI*
LIGHTING	*20*	*1*	EX	*600*	19	C	20	*1,440*	EX	*1*	*20*	*RECEPTALES*
DARK ROOM LIGHT	*20*	*1*	EX	*480*	21	A	22	*1,440*	EX	*1*	*20*	*RECEPTALES*
REFRIGERATOR	*20*	*1*	EX	*1,440*	23	C	24	*1,440*	EX	*1*	*20*	*RECEPTALES*
PHONE BOARD	*20*	*1*	EX	*480*	25	A	26			*1*	*20*	LIGHTING
COPIER	*20*	*1*	EX	*1,440*	27	C	28			1		
		1			29	A	30			1		
		1			31	C	32			1		
		1			33	A	34			1		
		1			35	C	36			1		
		1			37	A	38			1		
		1			39	C	40			1		
		1			41	A	42			1		

PHASE A : 13,680 W — PHASE C : 13,320 W

CONNECTED	DEMAND
27,000 W	28,610 W
113 A	119 A

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PANEL: 1N2 (EXISTING) — LOCATION: EXISTING — NEMA ENCLOSURE: EXISTING
SYSTEM: 240/120V., 1P,3W — MAINS: 200 A — CABINET MOUNTING: SURFACE
FEEDER: SEE RISER DIAGRAM — LUGS: EXISTING
OPTIONS: — AIC RATING: EXISTING

LOAD DESCRIPTION	BKR SIZE	BKR POLE	NOTE	WATTS	CCT NO.	PHASE	CCT NO.	WATTS	NOTE	BKR POLE	BKR SIZE	LOAD DESCRIPTION
LIGHTING	*20*	*1*	EX	*1560*	1	A	2	*3,120*	EX	*2*	*40*	*CU-3*
LIGHTING	*20*	*1*	EX	*1,200*	3	C	4	*3,120*				
PHONE BOARD	*20*	*1*	EX	*480*	5	A	6	*4,200*	EX	*2*	*50*	*AHU-3*
RM 102 - DENTAL CHAIR	20	1		540	7	C	8	*4,200*				
RM 102 - X-RAY	20	1		360	9	A	10	*600*	EX	*1*	*20*	*RECEPTACLES*
RM 102 - MONITOR	20	1		180	11	C	12	*600*	EX	*1*	*20*	*RECEPTACLES*
RM 102 - RCPTS	20	1		360	13	A	14	1,000		1	20	RM 103 - FRIDGE
RM 106 - DENTAL CHAIR	20	1		540	15	C	16	600		1	20	RM 103 - MICROWAVE
RM 106 - X-RAY	20	1		360	17	A	18	600		1	20	RM 103 - COFFE MACHINE
RM 106 - MONITOR	20	1		180	19	C	20	500		1	20	RM 103 - GARBAGE DISPOSAL
RM 106 - RCPTS	20	1		360	21	A	22	360		1	20	GENERAL RCPTS
RM 107 - DENTAL CHAIR	20	1		540	23	C	24			1	20	
RM 107 - X-RAY	20	1		360	25	A	26			1	20	
RM 107 - MONITOR	20	1		180	27	C	28			1		
RM 107 - RCPTS	20	1		360	29	A	30			1		
		1			31	C	32			1		
		1			33	A	34			1		
		1			35	C	36			1		
		1			37	A	38			1		
		1			39	C	40			1		
		1			41	A	42			1		

PHASE A : 14,080 W — PHASE C : 12,380 W

CONNECTED	DEMAND
26,460 W	27,150 W
110 A	113 A

Y:_Projects\Active\2019\01201941.02\01201941.02.Calcs and Support\MEP Coordinat

ELECTRICAL SERVICE LOAD SUMMARY

LOAD DESCRIPTION	ACTUAL CONNECTED WATTAGE	N.E.C. DEMAND FACTOR	N.E.C. DEMAND WATTAGE
LIGHTING	12,240	125%	15,300
TRACK LIGHTING	2,880	150 W/2 FT 0 FT	3,600
RECEPTACLES	71,640	1ST 10KW @ 100%	10,000
		REMAINING @ 50%	30,820
CONTINUOUS MOTORS	58	125%	73
NON-COUNTINUOUS MOTORS	39,120	100%	39,120
AIR CONDITIONING *	0	100% FULL A/C LOAD	0
HEATING *	0	0% FULL HEATING LOAD	0
HEAT PUMP(S)	1,800	100%	1,800
WATER HEATER	4,560	100%	4,560
MISCELLANEOUS	2,400	100%	2,400
		TOTAL WATTS	107,673
		TOTAL AMPERAGE	259

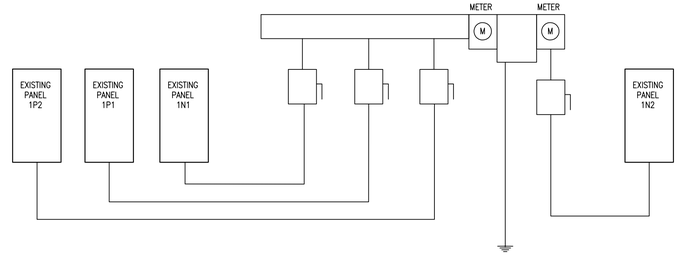
NOTES:
* USE GREATER LOAD OF THE TWO CATAGORIES
*** PIECES OF EQUIPMENT: 1-2 = 100%, 3 = 90%, 4 = 80%, 5 = 70%, 6 AND MORE = 65%

REQUIRED ELECTRICAL SERVICE: **800 A**

PANEL SCHEDULE NOTES

General Notes:	
	CIRCUITS *SHADED AND ITALICIZED* ARE EXISTING TO REMAIN.
	BALANCE PANELS WITHIN 10% PHASE TO PHASE.
Circuit Key Notes:	
LOC	HANDLE LOCK "OFF/ON" CLAMP DEVICE
LOFF	HANDLE LOCK PADLOCK ATTACHMENT FOR "OFF" POSITION ONLY.
HACR	HEATING, AIR CONDITION AND REFRIGERATION RATED BREAKER
EX	EXISTING BREAKER TO BE REUSED FOR NEW CONSTRUCTION
G	GROUND FAULT CIRCUIT INTERUPTING BREAKER
C#	ROUTE CIRCUIT THROUGH CONTACTOR INDICATED.

ALL ELECTRICAL EQUIPMENT ARE EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY



1 ELECTRICAL RISER DIAGRAM
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REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

SEAL:

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DRAWN BY: **AAI**
CHECKED BY: **ATF**
PROJECT NUMBER: 2319131

DRAWING NAME:
PANEL SCHEDULE AND RISER DIAGRAM

DRAWING NO.
E401

Plot Date: 5/14/2019 11:18:39 AM Dwg Filename: Y:_Projects\Active\2019\01201941.02\01201941.02.Drawings\INT_E400.dwg

NOT FOR CONSTRUCTION

SECTION 15500 – HEATING, VENTILATION AND AC

GENERAL

1. DESCRIPTION OF THE WORK:
   - A. THE EXTENT OF THE MECHANICAL WORK IS INDICATED ON THE DRAWINGS OR IN THE BID MANUAL.
   - B. RELATED WORK NOT INCLUDED IN THIS SECTION: TEST AND BALANCE, ELECTRICAL WIRING, CONTROL WIRING, ETC., EXCEPT CONTROL WIRING AS SPECIFICALLY DEFINED ABOVE. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPERVISION OF ALL WIRING OF EQUIPMENT AND SHALL FURNISH ALL NECESSARY DIAGRAMS, INCLUDING CONTROL WIRING DIAGRAMS. MOUNT ALL CONTROL DEVICES.

2. SUBMITTALS
   - A. MAINTENANCE MANUALS AND INSTRUCTIONS: FURNISH THREE (3) SETS OF COMPLETE OPERATING INSTRUCTIONS COVERING ENTIRE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM. INCLUDE A COPY OF THE CONTROL DIAGRAMS AND A COMPLETE DESCRIPTION OF THE OPERATION OF THE CONTROL SYSTEM. INSTRUCT OWNER'S DESIGNATED REPRESENTATIVE AS TO PROPER OPERATION AND CARE OF SYSTEM.

3. REQUIREMENTS:
   - A. NOISE AND VIBRATION: EQUIPMENT SHALL OPERATE QUIETLY AND THE DESIGN OF THE SUPPORTS SHALL BE SUCH THAT THE OPERATION OF THE EQUIPMENT SHALL CAUSE NO PERCEPTIVE VIBRATION IN THE FLOORING ADJACENT TO THE EQUIPMENT, NOR CAUSE, DIRECTLY OR INDIRECTLY, VIBRATION OR OBJECTIONABLE NOISE IN ANY OTHER PORTION OF THE BUILDING AND/OR IN THE BUILDING STRUCTURE ITSELF.
   - B. FOUNDATIONS: FURNISH ALL FOUNDATIONS FOR EQUIPMENT COVERED IN THE SPECIFICATIONS, AS A PART OF THIS SECTION, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

4. WARRANTY:
   - A. FURNISH A FIVE (5) YEAR WARRANTY ON ALL COMPRESSORS AND A ONE (1) YEAR SERVICE AND GUARANTEE ON ALL CONTROLS, EQUIPMENT AND MATERIALS.

5. MECHANICAL SUBMITTALS:
   - A. SUBMITTALS ARE REQUIRED ON THE FOLLOWING ITEMS AND THEY MUST BE SELECTED FROM ONE OF THE MANUFACTURERS LISTED. ALTERNATES SHALL NOT BE ACCEPTED:
     1. RTU UNITS: CARRIER
     2. FANS – BROAN, LOREN COOK
     3. GRILLES, REGISTERS & DIFFUSERS – PRICE, TITUS, AIR GUIDE OR METALAIRE.
     4. FLEXIBLE DUCT & FITTINGS – GENFLEX, THERMAFLEX
     5. THERMOSTAT (HONEYWELL T7351F OR T7350D) WITH DUCT MOUNTED TEMP/HUMIDITY SENSOR (HONEYWELL H7635B)
     6. MINI SPLIT – MITSUBISHI

7. GRILLES, REGISTERS AND DIFFUSERS:
   - A. ALL SUPPLY, RETURN AND EXHAUST GRILLES SHALL BE OF ALUMINUM CONSTRUCTION OR AS SCHEDULED ON THE DRAWINGS.

8. FLEXIBLE DUCT:
   - A. FLEXIBLE DUCT SHALL BE EQUIVALENT TO GENFLEX TYPE SLR–25 FLEX DUCT.
   - B. FITTINGS SHALL BE EQUIVALENT TO GENFLEX SPIN COLLAR WITH SCOOP AND DAMPER, MODEL SM–1 DEL. ALL FITTINGS SHALL BE INSULATED.

EXECUTION

1. SUPERVISION OF ELECTRICAL WORK:
   - A. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPERVISION OF ALL WIRING (INCLUDING CONTROL WIRING) OF EQUIPMENT INCLUDED IN THIS SECTION AND SHALL FURNISH ALL NECESSARY DIAGRAMS REQUIRED, INCLUDING CONTROL WIRING DIAGRAMS. MOUNT ALL CONTROL DEVICES.

2. PIPING, EQUIPMENT, INSTALLATION:
   - A. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS AND APPLICABLE REQUIREMENTS OF THE MANUFACTURERS OF THE EQUIPMENT AND SHALL PERFORM SATISFACTORILY AT THE COMPLETION OF THE WORK.

3. PAINTING:
   - A. EXCEPT AS SPECIFIED HEREIN, ALL PAINTING WILL BE DONE BY OTHERS. LEAVE WORK FREE FROM RUST, DIRT, GREASE AND PLASTER.
   - B. EQUIPMENT WITH A FACTORY APPLIED FINISH SHALL HAVE SCRATCHES, CHIPS, ETC. PRIMED AND TOUCHED UP WITH MATERIALS WHICH WILL PROTECT THE SURFACE AND MATCH THE ADJACENT AREAS.

4. CLEANING AND ADJUSTMENTS:
   - A. UPON COMPLETION OF WORK, CLEAN, OIL AND GREASE ALL FANS, MOTORS, OTHER RUNNING EQUIPMENT AND APPARATUS AND MAKE CERTAIN THAT ALL SUCH APPARATUS AND MECHANISMS ARE IN PROPER WORKING ORDER AND MADE READY FOR TEST.
   - 1. EXISTING EQUIPMENT, APPURTENANCES AND ASSOCIATED DUCTWORK PROPOSED FOR REUSE SHALL BE CLEANED, TESTED AND CALIBRATED BY THE HVAC CONTRACTOR. ANY DEFECTIVE PARTS SHALL BE REPLACED TO BRING UNITS UP TO GOOD OPERATING CONDITION. EXISTING THERMOSTATS SHALL BE REUSED AND/OR RELOCATED. EXISTING T'STATS SHALL ALSO BE CLEANED, TESTED, CALIBRATED AND REPAIRED AS NECESSARY FOR PROPER OPERATION.

5. TEST AND BALANCE:
   GENERAL
   - A. BUILDING AIR SYSTEMS SHALL BE BALANCED PER DATA INCLUDED ON THE DRAWINGS TO ACHIEVE RELATIVE AIR VOLUMES AS INDICATED ON THE DRAWINGS AND SCHEDULED HEREIN.

6. PERFORMANCE
   - A. THE CONTRACTOR SHALL ENGAGE AN INDEPENDENT AIR BALANCING AGENCY SUBSEQUENT TO THE APPROVAL OF THE OWNERS REPRESENTATIVE. THE T&B AGENCY CAN ONLY ACT AS HIS OWN REPORTING AGENCY IF SUITABLE INSTRUMENTS HEREINAFTER REQUIRED ARE DEMONSTRATED TO BE PART OF HIS NORMAL PROCEDURE TO THE SATISFACTION OF THE OWNERS REPRESENTATIVE. THE T&B AGENCY SHALL BE AABC OR NEBB CERTIFIED. T&B REPORTS TO BE TO BE PRODUCED AT COMPLETION AND 6 MONTHS AFTER FINISHED CONSTRUCTION. GC TO SUBMIT T&B REPORTS TO OWNER.

7. MEASURING TECHNIQUES
   - A. PITOT TUBE TRAVERSE SHALL BE PERFORMED TO DETERMINE THE TOTAL FLOW OF ALL HVAC SYSTEMS.
   - B. ALL DIFFUSERS, REGISTERS AND GRILLES WITH A FACE DIMENSION OF 24" OR LESS SHALL BE MEASURED BY UTILIZING A HOOD AXIAL VANE VELOMETER.
   - C. USE VOLUME DAMPERS LOCATED IN DUCTS AND BALANCE DIFFUSERS.

8. SUBMITTALS
   - A. IT SHALL BE THE RESPONSIBILITY OF THE T&B AGENCY TO PROVIDE THE LOCAL BLDG. DEPT. AND OWNER WITH PROPER TEST & BALANCE DATA ON AABC OR NEBB FORMS.

PRODUCTS

1. LOW PRESSURE DUCTWORK
   - A. SUPPLY & RETURN AIR DUCTWORK AS INDICATED ON PLAN SHALL BE EXTERNALLY INSULATED GALVANIZED SHEET METAL (FIBERGLASS NOT PERMITTED), GAUGES, REINFORCING AND JOINING CONNECTIONS SHALL BE IN STRICT ACCORDANCE WITH SMACNA LOW VELOCITY DUCT STANDARDS LATEST EDITION. ALL DUCTS WIDER THAN 18" SHALL BE CROSS BROKEN. PROVIDE ANGLE STIFFENERS AS REQUIRED TO AVOID DUCT VIBRATION. EXTERNAL INSULATION SHALL BE 2" THICK, 3/4 LB. DENSITY DUCT WRAP.
   - B. ALL DUCT SIZES INDICATED ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
   - C. ALL DUCTWORK TO BE HUNG WITH GALVANIZED STRAP HANGERS 24 GAUGE x 2" WITH A MAXIMUM SPACING OF 8'–0" O.C.
   - D. ALL ELBOWS WILL BE SQUARE TURNS WITH DOUBLE VANE TURNING VANES EXCEPT WHERE SHOWN ON THE DRAWINGS.
   - E. WHERE SHOWN ON THE DRAWINGS, PROVIDE VOLUME DAMPERS WITH LOCKING QUADRANTS OR SPLITTERS WITH HINGE AND ROD THROUGH SIDE OF DUCT WITH SET SCREW. VOLUME DAMPER HANDLES SHALL BE INSTALLED ON THE BOTTOM OF THE SPIN–IN FITTING AND SHALL HAVE RING SET IN FULL OPEN POSITION.
   - F. ALL FLEXIBLE DUCTS SHALL BE SUPPORTED EVERY 4'–0" WITH 2" WIDE GALV. STEEL BANDS. MINIMUM ONE PER EACH SECTION OF FLEXIBLE DUCT.

2. MANUAL DAMPERS
   - A. PROVIDE MANUAL LOUVER DAMPERS WHERE SHOWN ON THE PLANS AND WHERE NECESSARY FOR THE PROPER REGULATION OF THE AIR HANDLING SYSTEM, AND LOCATE SO AS TO BE ACCESSIBLE AFTER THE BUILDING IS COMPLETED, I.E. BY REMOVING A MARKED TILE, ACCESS PANEL OR OTHER APPROVED METHOD. DAMPERS SHALL BE AIR BALANCE NO. AC116.

3. EXHAUST FANS
   - A. CONTRACTOR SHALL INSTALL ALL EXHAUST FANS AS SCHEDULED ON THE CONTRACT DOCUMENTS.

4. CONTROLS
   - A. PROVIDE ADJUSTABLE HEATING AND COOLING THERMOSTATS AND PROVIDE REMOTE TEMPERATURE SENSORS AS SHOWN ON PLANS.

5. PIPING:
   - A. CONDENSATE DRAIN LINES SHALL BE SCH 40 PVC.

HVAC GENERAL NOTES

1. ALL DRAWINGS ARE CONCEPTUAL AND SCHEMATIC AND ARE INTENDED FOR USE AS A DESIGN/BUILD GUIDELINE. THE CONTRACTORS ARE RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS AND ADJUSTING' OR MODIFYING THE SPECIFIC ELEMENTS OF THEIR WORK AS REQUIRED TO MEET THE DESIGN INTENT. THE CONTRACTORS ARE RESPONSIBLE FOR THE FOLLOWING:
   - A COORDINATION WITH OTHER TRADES.
   - B PROVIDING ADDITIONAL DRAWINGS. CALCULATIONS AND OTHER DOCUMENTATION REQUIRED FOR THE BUILDING DEPARTMENT. THE MECHANICAL CONTRACTOR SHALL DOCUMENT THE INSTALLATION AND PROVIDE ALL TESTS REQUIRED TO SUBSTANTIATE CODE COMPLIANCE AS REQUIRED BY THE BUILDING DEPARTMENT AND LOCAL INSPECTOR. CONTRACTOR SHALL SUBMIT FINAL AS–BUILT DRAWINGS TO BUILDING DEPARTMENT FOR RECORD AT COMPLETION.
2. MECHANICAL PLANS ARE DIAGRAMMATIC IN NATURE, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS AND LOCATIONS MUST BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL, HVAC, FIRE PROTECTION, STRUCTURAL, ELECTRICAL AND OTHER BUILDING DRAWINGS.
3. FURNISH ALL LABOR, MATERIALS, TOOLS, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE HEATING, VENTILATING, AIR CONDITIONING SYSTEM. INCLUDE ANY LABOR AND MATERIAL NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO PROVIDE A COMPLETE AND OPERATING SYSTEM. ALL WORK SHALL BE INSTALLED IN A PROFESSIONAL MANNER AND SHALL MEET ALL THE REQUIREMENTS OF THE STATE BUILDING CODE, CITY BUILDING CODE, SAFETY AND HEALTH CODES, NFPA CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. ALL COSTS FOR SAID REQUIREMENTS SHALL BE INCLUDED IN THIS CONTRACTORS BID PRICE.
4. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE FOLLOWING CODES:
   2017 FLORIDA BUILDING CODE.
   2017 FLORIDA MECHANICAL CODE.
   2007 FLORIDA ENERGY CONSERVATION CODE.
5. CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AND PERFORM ALL TESTS CALLED FOR OR REQUIRED AS A PART OF HIS WORK. FURNISHED APPROVED CERTIFICATE OF FINAL INSPECTION, AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL TRADES, OWNER REQUIREMENTS, CEILING HEIGHTS AND STRUCTURAL CONDITIONS PRIOR TO FABRICATION OF ANY DUCTWORK OR ORDERING OF ANY EQUIPMENT.
7. ALL INSTALLATION OF THE MECHANICAL EQUIPMENT SHALL COMPLY WITH THE MANUFACTURER'S SPECIFICATION AND CLEARANCE REQUIREMENTS.
8. ALL HVAC WORK SHALL BE IN ACCORDANCE WITH NFPA 90A, 90B, 96, 54 AND NFC 101. LIFE SAFETY CODE.
9. INSTALLATION SHALL COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES, AND WITH LATEST ASHRAE PUBLICATIONS. WORK SHALL BE NEAT AND WORKMANSHIP SHALL BE ACCEPTABLE TO BUILDING STANDARDS.
10. ALL CONTROL WIRING, CONDUIT, AND HARDWARE TO COMPLETE THE HVAC CONTROL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR UNDER DIVISION 15 OF THE SPECIFICATIONS.
11. DURING THE BIDDING PERIOD, EACH CONTRACTOR SHALL VISIT THE SITE TO DETERMINE CONDITIONS AFFECTING THE WORK. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF WORK REQUIRED CONDITIONS IN EVIDENCE THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION.
12. THE EQUIPMENT SHALL BE LOCATED TO ALLOW FOR EASY ACCESS FOR SERVICING, ADJUSTING OR MAINTENANCE AND SPACE FOR REMOVAL OF INTERNAL ASSEMBLIES. PROVIDE MINIMUM CLEARANCES FOR ALL EQUIPMENT PER THE MANUFACTURERS RECOMMENDATIONS.
13. PROVIDE ALL CONTROL EQUIPMENT, MOTOR STARTERS, RELAYS, LINE VOLTAGE CONTROLS, TRANSFORMERS, LOW VOLTAGE CONTROLS, AND DEVICES NECESSARY FOR THE COMPLETE OPERATION OF THE HEATING AND AIR CONDITIONING AND VENTILATING SYSTEM.
14. ALL LOW VOLTAGE WIRING AND CONDUIT REQUIRED FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
15. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND ORDINANCES AND THE NATIONAL ELECTRIC CODE.
16. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND SYSTEMS INDICATED ON THE CONTRACT DOCUMENTS. PRIOR TO THE SUBMITTAL THE CONTRACTOR SHALL VERIFY THAT ADEQUATE SPACE EXIST FOR THE SUBMITTED EQUIPMENT. SHOP DRAWINGS MUST BE REVIEWED BY THE ENGINEER AND ARCHITECT.
17. ALL THE BARE METAL SURFACES SHALL BE PRIMED AND PAINTED TO PREVENT ANY RUST, INCLUDING, BUT NOT LIMITED TO, ANGLE FRAMING, UNIT SUPPORTS, MOUNTING HARDWARE, ETC.
18. CONTRACTOR TO PROVIDE TENANT WITH AS–BUILT DRAWINGS OF ALL CHANGES OR MODIFICATIONS MADE IN THE FIELD, TO THE ORIGINAL SET OF CONSTRUCTION DOCUMENTS, FOR TURN–OVER TO THE ARCHITECT/ ENGINEER UPON COMPLETION OF THE PROJECT. PROVIDE ALL EQUIPMENT SHOP DRAWINGS, INFORMATION ON CONTROL DEVICES, CONTROL WIRING DIAGRAMS AND OTHER PERTINENT INFORMATION AT COMPLETION OF PROJECT.
19. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE MECHANICAL EQUIPMENT COMPONENTS ARE INSTALLED AT LOCATIONS AND ELEVATIONS WHICH MAKE THEM READILY ACCESSIBLE FOR ROUTINE MAINTENANCE WITHOUT REQUIRING ANY EXTRAORDINARY MEASURES.
20. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH HE INSTALLS. THIS INCLUDES ALL CONDENSERS, REFRIGERANT PIPES, AND OTHER ITEMS FURNISHED BY OTHERS AS WELL AS THOSE FURNISHED BY HIM.
21. CONDENSATE DRAINAGE PIPING SHALL BE TRAPPED, SUPPORTED AND RUN AS SHOWN ON DRAWINGS.
22. FIELD VERIFY THE EXACT LOCATION OF ALL EQUIPMENT WITH ARCHITECT/OWNER PRIOR TO INSTALLATION. INFORM OWNER OF ANY EQUIPMENT ITEMS THAT REQUIRE RELOCATION.
23. CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT. AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, VENTS, MECH. PIPING OF ANY KIND, ELECTRICAL, ETC.
24. PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE CONNECTIONS TO ALL MOVING MACHINERY.
25. DUCT DIMENSIONS SHOWN ARE INSIDE NET DIMENSIONS, ADD TO SHEET METAL SIZE FOR INSULATION THICKNESS. HOLD DUCTWORK TIGHT TO UNDERSIDE OF STRUCTURE UNLESS OTHERWISE NOTED OR REQUIRED BY FIELD CONDITIONS. IT IS REQUIRED TO COORDINATE EXACT MOUNTING HEIGHT IN FIELD WITH SITE INVESTIGATION. SUPPLY, RETURN, OUTSIDE AIR DUCTS SHALL BE EXTERNALLY INSULATED. INSULATION WRAP SHALL BE SEALED WITH FAB AND MASTIC.
26. ALL DUCTWORK SHALL MAINTAIN SYSTEM PRESSURE. THE AIR DISTRIBUTION COMPONENTS SHALL BE SEALED IN ACCORDANCE WITH SMACNA REQUIREMENTS. TWO INCH PRESSURE CLASS.
27. ALL EXHAUST AIR DUCTWORK SHALL BE A MINIMUM 24 GA. GALV. SHEET METAL DUCTWORK, DUCTBOARD IS NOT PERMITTED.
28. DUCT INSULATION CLOSURE SYSTEM SHALL CONSIST OF GLASS FABRIC AND NON MIGRATING MASTIC, SEAL AIR TIGHT.
29. ALL FLEXIBLE DUCTS SHALL BE SUPPORTED EVERY 4'–0" WITH 2" WIDE GALV. STEEL BANDS. MINIMUM ONE PER EACH SECTION OF FLEXIBLE DUCT. MAXIMUM LENGTH OF FLEX DUCT SHALL BE 5'–0" LONG AND SHALL MEET INSTALLATION AND MATERIAL REQUIREMENTS OF LOCAL CODES.
30. NO FLEXIBLE DUCTS SHALL PASS THROUGH FIRE WALLS, OR BE CONNECTED TO ANY METAL DUCT WITH–IN 5'–0" FROM EITHER SIDE OF THE FIREWALL.
31. ALL BRANCH TAKE–OFFS SHALL BE PROVIDED WITH MANUAL BALANCING DAMPERS LOCATED ABOVE ACCESSIBLE CEILINGS AS CLOSE TO MAIN TRUNK AS POSSIBLE.
32. CONTRACTOR IS RESPONSIBLE FOR COORDINATING BOX–OUT LOCATIONS FOR ALL DRYWALL MOUNTED AIR DEVICES WITH GENERAL CONTRACTOR AND CEILING FRAMING. CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH LIGHTING LAYOUTS AS REQUIRED.
33. ALL SUPPLY DUCT BENDS FROM THE VERTICAL TO HORIZONTAL AND ANGLED TURNS OF DUCTWORK SHALL HAVE TURNING VANES INSTALLED.
34. PROVIDE SMOOTH TRANSITIONS AT EQUIPMENT AND AIR DEVICES TO MATCH CONNECTION SIZES. ALL DUCTWORK SHALL BE SHEET METAL FABRICATED IN ACCORDANCE WITH ASHRAE GUIDE AND SMACNA MANUAL LATEST EDITIONS.
35. THE CONTRACTOR SHALL ENGAGE AN INDEPENDENT AIR BALANCING AGENCY SUBSEQUENT TO THE APPROVAL OF THE OWNERS REPRESENTATIVE. THE T&B AGENCY CAN ONLY ACT AS HIS OWN REPORTING AGENCY IF SUITABLE INSTRUMENTS HEREINAFTER REQUIRED ARE DEMONSTRATED TO BE PART OF HIS NORMAL PROCEDURE TO THE SATISFACTION OF THE OWNERS REPRESENTATIVE. THE T&B AGENCY SHALL BE AABC OR NEBB CERTIFIED. T&B REPORTS TO BE TO BE PRODUCED AT COMPLETION AND 6 MONTHS AFTER FINISHED CONSTRUCTION.
36. IT SHALL BE THE RESPONSIBILITY OF THIS T&B AGENCY TO PROVIDE THE LOCAL BLDG. DEPT. AND OWNER WITH PROPER TEST & BALANCE DATA ON AABC OR NEBB FORMS.
37. BUILDING AIR SYSTEMS SHALL BE BALANCED PER DATA INCLUDED ON THE DRAWINGS TO ACHIEVE RELATIVE AIR VOLUMES AS INDICATED ON THE DRAWINGS AND SCHEDULED HEREIN.
38. BOTH OUTDOOR AIR SUPPLY AND EXHAUST DUCTS SHALL BE EQUIPPED WITH DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN SYSTEMS OR SPACES SERVED ARE NOT IN USE.
39. PROVIDE TEMPORARY POWER AS REQUIRED SO NEW HVAC SYSTEM IS OPERATIONAL A MINIMUM OF 2 WEEKS PRIOR TO INSTALLATION OF CEILING TILES

HVAC ABBREVIATIONS

A	AMPS
AFF	ABOVE FINISHED FLOOR
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
DIA	DIAMETER
EF	EXHAUST FAN
RTU	EXISTING ROOF TOP UNIT FAN
ESP	EXTERNAL STATIC PRESSURE
°F	DEGREE FAHRENHEIT
FT	FOOT OR FEET
HP	HORSEPOWER
kW	KILOWATT
HZ	HERTZ
IN	INCH
MAX	MAXIMUM
MBH	1,000 BTU'S PER HOUR
MCA	MAXIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
N T S	NOT TO SCALE
OA	OUTSIDE AIR
PH	PHASE
RLA	RUNNING LOAD AMPS
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SQ. FT.	SQUARE FEET
T	THERMOSTAT

FIELD VERIFY ALL CONDITIONS

NOTE! AS NOTED IN THE SPECIFICATIONS, ALL WIRING LAYOUTS, PIPING LAYOUTS AND DUCT LAYOUTS ARE SCHEMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD. EACH TRADE CONTRACTOR SHALL VERIFY WITH THE GENERAL CONTRACTOR THAT HE HAS THOROUGHLY REVIEWED AND COORDINATED ALL LOCATIONS AND ROUTINGS WITH ALL OTHER TRADES PRIOR TO FABRICATION OF CONDUITS, DUCTS, OR PIPING, AND START OF INSTALLATION OF SAME (INCLUDING SPRINKLER PIPING WHEN PRESENT ON JOB). ANY INSTALLATION OR CONSTRUCTION CONFLICTS WHICH OCCUR IN THE FIELD SHALL BE RESOLVED BY THE TRADE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND ARCHITECT AND AT NO EXPENSE TO THE OWNER, ARCHITECT AND/OR GENERAL CONTRACTOR.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

MECHANICAL SYMBOLS LEGEND

GRILLES/DIFFUSERS:

- SUPPLY DIFFUSER
- SIDEWALL MOUNTED SUPPLY REGISTER
- RETURN GRILLE
- EXHAUST GRILLE

DOUBLE LINE DUCT SYMBOLS:

- NEW SHEET METAL DUCTWORK
- EXISTING DUCT/PIPE TO BE REMOVED
- EXISTING DUCT/PIPE TO REMAIN
- SUPPLY OR OUTSIDE AIR DUCT
- RETURN AIR DUCT
- EXHAUST AIR DUCT
- DUCTWORK TRANSITION
- DUCTWORK TRANSITION – RECTANGULAR TO ROUND
- DUCT ELBOW WITH FIXED TURNING VANES
- DUCT BRANCH TAKE–OFF
- ROUND SPIN–IN WITH DAMPER
- SQUARE TO ROUND TAP WITH DAMPER
- FLEXIBLE DUCT CONNECTION
- FIRE DAMPER
- SMOKE DAMPER
- COMBINATION FIRE/SMOKE DAMPER
- VOLUME DAMPER
- FLEXIBLE DUCTWORK

EQUIPMENT:

- CEILING MOUNTED EXHAUST FAN
- THERMOSTAT – ELECTRIC
- HUMIDITY SENSOR
- TEMPERATURE SENSOR
- DUCT SMOKE DETECTOR

GENERAL REFERENCES/NOTATIONS:

- CONNECT TO EXISTING
- SQUARE NOTE DESIGNATION
- REVISION DESIGNATION
- TYPE X – MECHANICAL EQUIPMENT DESIGNATION
- LETTERS REFERENCE AIR DEVICE TYPE ON SCHEDULE – SD–1 – 10X10 / 250 – NECK SIZE IN INCHES / AIR QUANTITY DELIVERED BY DEVICE IN CFM

SYMBOLS LEGEND NOTES:
1. REFER TO SPECIFICATIONS AND PLAN NOTES FOR DETAILED DESCRIPTION OF ALL DEVICES SHOWN IN THIS SCHEDULE, PROVIDED BY THIS CONTRACTOR.

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REVISIONS

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CHECKED BY: **CLK**

PROJECT NUMBER: 2319131

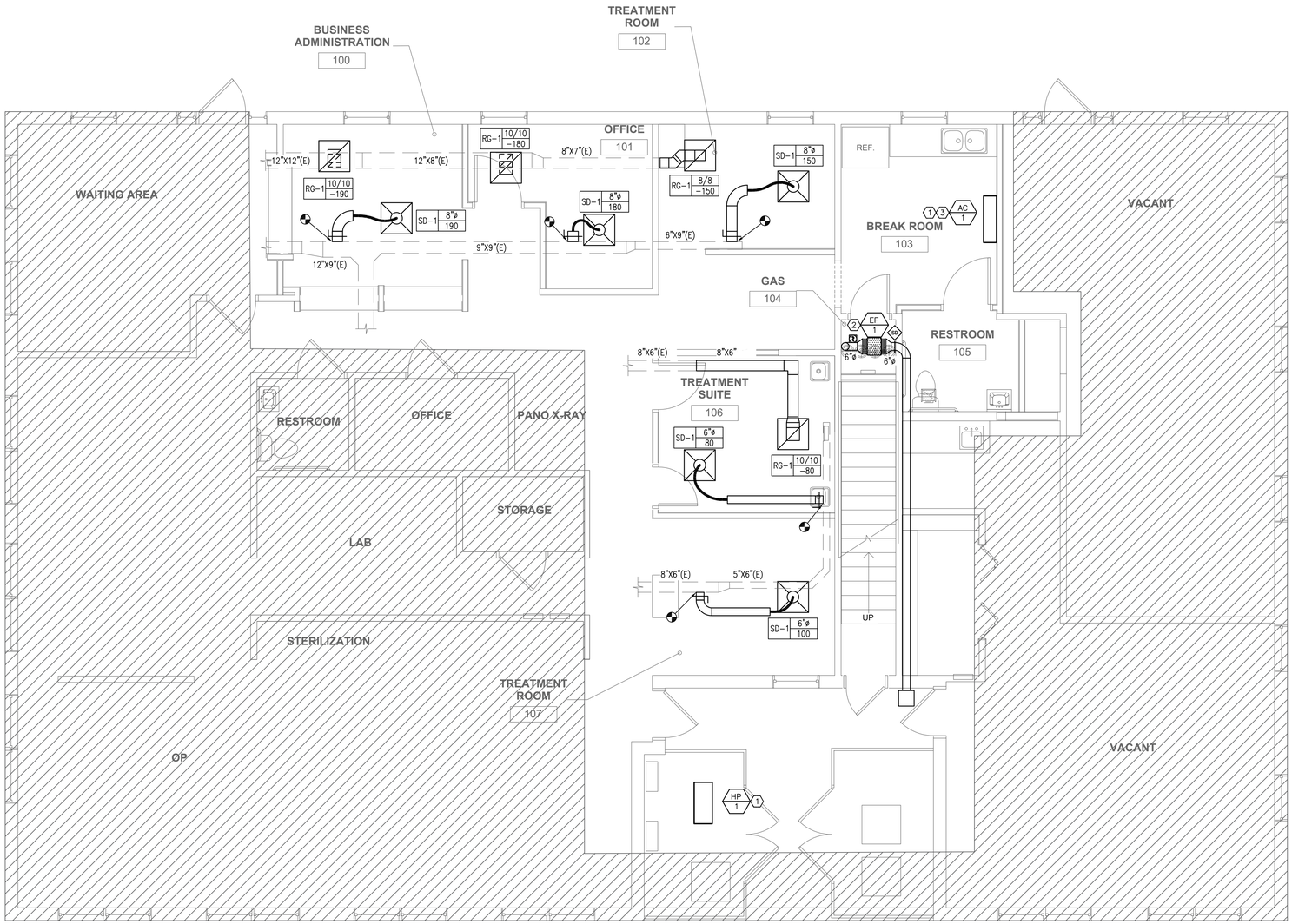
DRAWING NAME:

MECHANICAL SPECS NOTES & LEGENDS

DRAWING NO.

M001

Plot Date: 5/31/2019 2:15:27 PM Dwg Filename: Y:_Projects\Active\2019\01\201941.02\01\201941.02 Drawings\INT_M001.dwg



GENERAL PLAN NOTES

A. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK OF THE PROJECT. REVIEW GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.

B. INSTALLATION OF EQUIPMENT SHALL COMPLY WITH EQUIPMENT MANUFACTURER'S INSTALLATION AND CLEARANCE REQUIREMENTS TO ALLOW FOR INSPECTION, SERVICE, REPAIR OR REPLACEMENT.

C. ALL NEW SUPPLY AND RETURN DUCTWORK SHALL BE GALVANIZED STEEL, EXTERNALLY INSULATED WITH NOMINAL THICKNESS 2.2 INCH THICK FIBERGLASS DUCTWRAP. INSTALL THICKNESS SHALL NOT BE LESS THAN 1 5/8", INSTALLED R VALUE SHALL BE A MINIMUM OF 6. SEAL ALL JOINTS AND SEAMS WITH GLASS FABRIC AND MASTIC MEETING UL 181.

D. DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.

E. CONTRACTOR IS RESPONSIBLE FOR COORDINATING BORDERS FOR DIFFUSERS/REGISTERS WITH ARCHITECTURAL CEILING TYPES.

F. PROVIDE VOLUME BALANCING DAMPER AT ALL NINETY-DEGREE DUCT TAKE-OFFS. THIS ALSO APPLIES TO TAKE-OFFS TO DIFFUSERS OR REGISTERS LOCATED DIRECTLY UNDER DUCTS.

G. CONTRACTOR SHALL PERFORM A COMPLETE CERTIFIED TEST AND BALANCE OF EACH MECHANICAL SYSTEM INCLUSIVE OF EXHAUST FANS, SPLIT SYSTEM AIR HANDLING UNITS, ROOFTOP UNITS, VARIABLE AIR VOLUME BOXES, FAN COIL UNITS AND CEILING DEVICES. SEE SPECIFICATIONS FOR DETAILS AND PROVIDE THREE (3) WRITTEN COPIES OF THE COMPLETED TEST AND BALANCE REPORT TO THE OWNER FOR REVIEW.

H. MAXIMUM LENGTH OF FLEX DUCTWORK SHALL BE 5 FEET OR PER LOCAL CODE.

I. MECHANICAL CONTRACTOR TO FIELD VERIFY WITH STRUCTURE ALL DUCT ROUTING PRIOR TO FABRICATION.

J. MECHANICAL CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF ALL NEW ROOF TOP EQUIPMENT. ALL OPENING SHOULD FALL BETWEEN JOIST.

K. PROVIDE ACCESS TO ALL COMPONENTS REQUIRING PERIODIC INSPECTION AND SERVICE THAT ARE LOCATED WITHIN THE SPACE OR REQUIRE ACCESS THROUGH THE SPACE. LABEL ACCESS DOORS AND PANELS OR CEILING TILES UTILIZED FOR ACCESS WITH THE NAME OF THE HIDDEN COMPONENT(S). DEMONSTRATE ACCESS TO ALL HIDDEN COMPONENTS FOR THE FIELD REPRESENTATIVE PRIOR TO OCCUPANCY.

L. CONTRACTOR SHALL COMPLY WITH ALL OWNER'S CRITERIA. COORDINATE AND SCHEDULE ALL WORK WITH OWNER'S FIELD REPRESENTATIVE.

M. PROVIDE ALL NECESSARY TRANSITIONS AND OFFSETS IN SUPPLY AND RETURN AIR DUCTWORK TO AVOID STRUCTURE, WATER, GAS, SPRINKLER PIPING, OTHER DUCTWORK, OTHER TRADES, ETC. DUCTWORK SHALL BE INSTALLED AS HIGH AS CONDITIONS WILL ALLOW.

N. NO DUCTWORK OVER THE ELECTRICAL PANELS

O. CONTRACTOR SHALL IDENTIFY ALL ROOF MOUNTED EQUIPMENT WITH STORE NAME AND UNIT NUMBER USING PERMANENT WEATHER PROOF 2" HIGH DIE-CUT LETTERS.

P. ALL INSTALLATION OF EQUIPMENT SHALL COMPLY WITH EQUIPMENT MANUFACTURER'S INSTALLATION AND CLEARANCE REQUIREMENTS TO ALLOW FOR INSPECTION, SERVICE, REPAIR OR REPLACEMENT.

PLAN KEYED NOTES

1. FURNISH AND INSTALL A NEW WALL MOUNTED SPLIT SYSTEM DX AIR HANDLING UNIT IN BREAK ROOM. LOCATE WITH TOP OF UNIT AT 6" BELOW CEILING WITH MATCHING HEAT PUMP CONDENSING UNIT LOCATED IN MECHANICAL ENCLOSURE. REFER TO EQUIPMENT SCHEDULE ON SHEET M201. PROVIDE ALL CONTROLS AND THERMOSTATS FOR A COMPLETE OPERATIONAL SYSTEM.
2. EXHAUST FAN TO RUN CONTINUOUSLY EXCEPT UNDER FIRE CONDITIONS. PROVIDE DUCT MOUNTED SMOKE DETECTOR IN EXHAUST DUCT AND WIRED TO EXHAUST FAN MOTOR TO SHUT DOWN UNIT UPON SENSING PRODUCTS OF COMBUSTION. OPEN END OF DUCT SHALL TERMINATE WITHIN 12" OF THE FLOOR. REFER TO DETAIL #11 SHEET M302. EXHAUST DUCT SHALL BE MINIMUM 26GA. GALVANIZED STEEL. EXTEND DUCT TO NEW LOUVER.
3. REFRIGERANT PIPE SIZING AND ROUTING DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL TAKE INTO ACCOUNT LENGTH OF RUN AND FIELD CONDITIONS WHEN SIZING THE PIPING TO ENSURE ALL LOSSES ARE ACCOUNTED FOR.

TO MAINTAIN ARCHITECTURAL CEILING HEIGHT REQUIRED & AVOID POTENTIAL CONFLICTS. INSTALL DUCTWORK RUNNING PARALLEL TO BARJOIST AS CLOSE AS POSSIBLE TO UNDERSIDE OF ROOF DECK TO AVOID DUCTWORK RUNNING PERPENDICULAR BELOW BAR JOIST. THE MECHANICAL INSTALLER MAY MAKE ADJUSTMENT IN FIELD TO ACCOMMODATE CONFLICTING CONDITIONS.

ALL MECHANICAL EQUIPMENT, DUCTWORK, GRILLE, DIFFUSERS, ETC. NOT SHOWN ARE EXISTING TO REMAIN.

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REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

SEAL:

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CHECKED BY: CLK
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DRAWING NAME:
MECHANICAL FLOOR PLAN

DRAWING NO.
M101

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EXHAUST FAN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	AREA SERVED	CFM	E.S.P.(IN)	ELEC. WATTS	DRIVE	RPM	ELECTRICAL	MISC. CONTROLS	REMARKS
EF-1	COOK	GN142	N20 ROOM	80	0.25"	58	DIRECT	–	120V/1PH	HARD WIRED	1,2,3,4,5

REMARKS:

1. PROVIDE BACKDRAFT DAMPER.
2. PROVIDE FACTORY INSTALLED AND WIRED SPEED CONTROLLER.
3. FAN SHALL BE SUPPLIED WITH FACTORY WHITE GRILLE.
4. EXHAUST FAN FOR N20 ROOM TO RUN CONTINUOUSLY EXCEPT UNDER FIRE CONDITIONS. SEE DETAIL 1/M302
5. PROVIDE WITH MOUNTING HARDWARE AND ISOLATOR KIT.

AIR DISTRIBUTION DEVICE SCHEDULE (BASED ON TITUS AIR DEVICES)

NOTES:
1. SYMBOL KEY –
   FIRST LETTER: S–SUPPLY R–RETURN E–EXHAUST T–TRANSFER.
   SECOND LETTER: D–DIFFUSER R–REGISTER G–GRILLE A–ADJUSTABLE SLOT
2. BORDER STYLE – REFER TO REFLECTED CEILING PLAN
3. DAMPERS –
   OPERABLE FROM FACE OB: OPPOSED
   BLADE ROB: RADIAL OPPOSED BLADE B: BUTTERFLY

TAG	MODEL	SIZE		MAX CFM	MOUNTING			MATERIAL		ACCESSORIES			NOTE
		FACE	NECK		SOFFIT	CEIL-ING	DUCT	STEEL	ALUM.	DPR.	EQUAL GRID	FIRE DPR.	
SD-1	TDC	24/24	8"ø	190		●		●					1,2,3,4,5,7,8
RG-1	3F	24/24	10/10	200		●		●					2,3,4,5,6,7,9

NOTES:

1. PROVIDE WITH OPPOSED BLADE DAMPER AT AIR DEVICE IF SHOWN ON PLANS.
2. MAX NC LEVEL 30 OR LESS.
3. PROVIDE SQUARE TO ROUND NECK ADAPTOR.
4. SEE ARCHITECTURAL DRAWINGS FOR PAINT AND FINISH.
5. PROVIDE 4-WAY AIR THROW PATTERN UNLESS OTHERWISE NOTED OR INDICATED.
6. PROVIDE INSULATED PLENUM.
7. BORDER TYPE 3 FOR LAY-IN INVERTED TEE.
8. PROVIDE INSULATED BACKS ON ALL DIFFUSERS.
9. PAINT INSIDE RETURN AIR PLENUM FLAT BLACK.

NEW DUCTLESS HEAT PUMP

AIR HANDLING UNIT:	
TAG	AC-1/HP-1
MANUFACTURER	MITSUBISHI
AHU MODEL #	PKA-A12HA7
TONNAGE	1
SERVES	BREAK ROOM
AHU CONFIGURATION	SURFACE WALL
AHU DIMENSIONS WxHxD (IN)	36x12x10
RATED CAPACITY COOLING BTU/H	12,000
ENERGY EFFICIENCY RATING SEER	20.8
COOLING FLA	0.33
MCA	1.0
SUPPLY AIR (CFM)	425
EAT / LAT	80° / 67°
TYPE	DX
VOLTAGE	240/1PH
CU DIMENSIONS WxHxD (IN)	32x25x12
MANUFACTURE	MITSUBISHI
CU MODEL #	PUZ-A12NKA7
AMBIENT	43° F/ 97° F
REFRIGERANT	R410A
MCA	11.0
MOCP	15.0
VOLTAGE	240/1PH
REMARKS	1 THRU 3

NOTES FOR SPLIT SYSTEM SCHEDULE

1. PROVIDE WITH WALL MOUNTED THERMOSTAT / CONTROLLER.
2. PROVIDE INTEGRAL DISCONNECT & WIRING FOR INDOOR EVAPORATOR AND OUTDOOR UNIT. COORDINATE WITH ELECTRICAL CONTRACTOR.

✳ CONTRACTOR SHALL VERIFY EXACT ELECTRICAL CONNECTIONS, WIRE SIZES, BREAKERS, DISCONNECT, ETC. PRIOR TO ORDERING AND BID.

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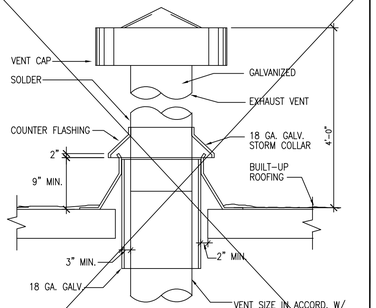
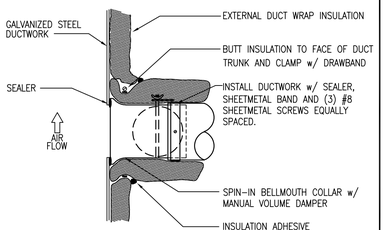
DRAWING NAME:
MECHANICAL SCHEDULES

DRAWING NO.
M201

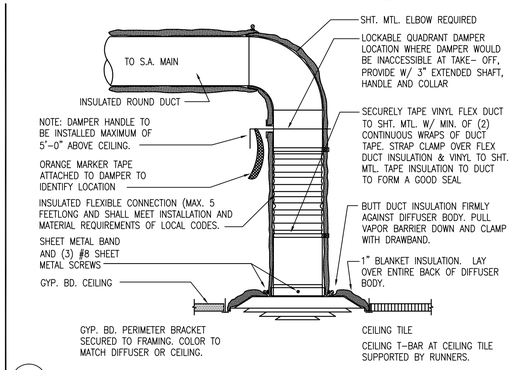
NOT FOR CONSTRUCTION



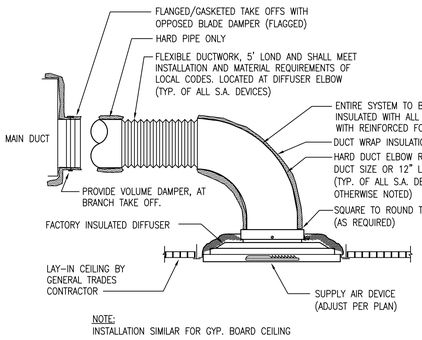
1 EXHAUST VENT THRU ROOF NTS



2 CONNECTION DUCT FITTING NTS

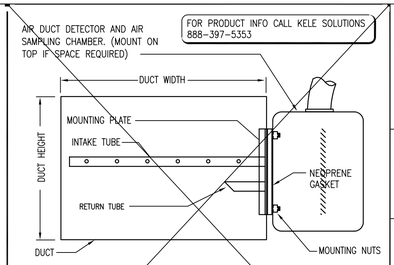


3 CONNECTION DIFFUSER DETAIL



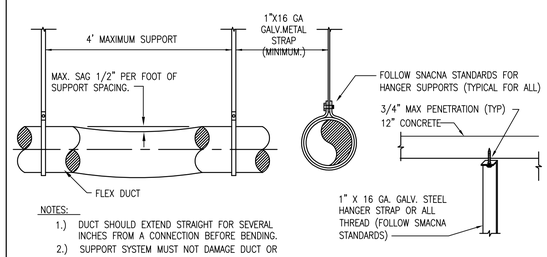
NOTE:
INSTALLATION SIMILAR FOR GYP. BOARD CEILING

NTS



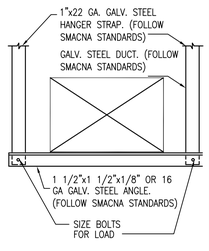
NOTES:
1. SMOKE DETECTOR FURNISHED BY FIRE ALARM CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR, AND MOUNTED BY MECHANICAL CONTRACTOR.
2. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. PROVIDE ACCESS DOOR AT SAMPLING TUBES.
4. INSTALL PER NFPA 90A
5. MOUNT REMOTE INDICATOR/RESET BY THERMOSTATS

4 SMOKE DETECTOR MOUNTING NTS



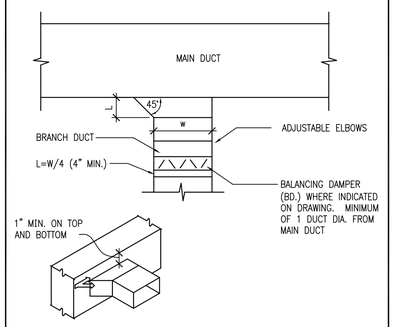
NOTES:
1.) DUCT SHOULD EXTEND STRAIGHT FOR SEVERAL INCHES FROM A CONNECTION BEFORE BENDING.
2.) SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR

UPPER ATTACHMENT – TYP.

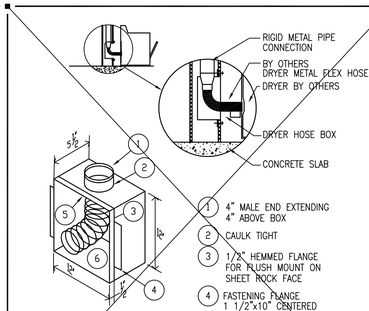


TRAPEZE HANGER LOWER ATTACHMENT – TYP.

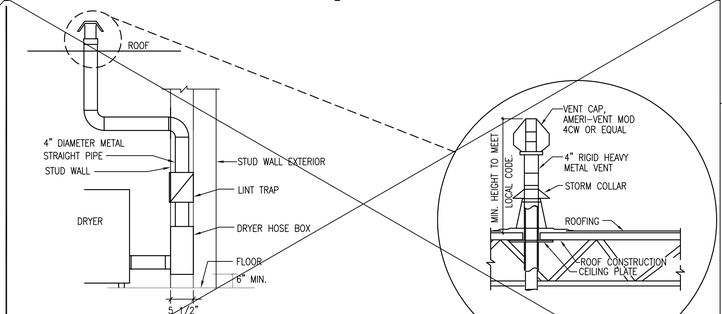
5 TYPICAL DUCT HANGING DETAIL NTS



6 RECTANGULAR BRANCH CONNECT NTS



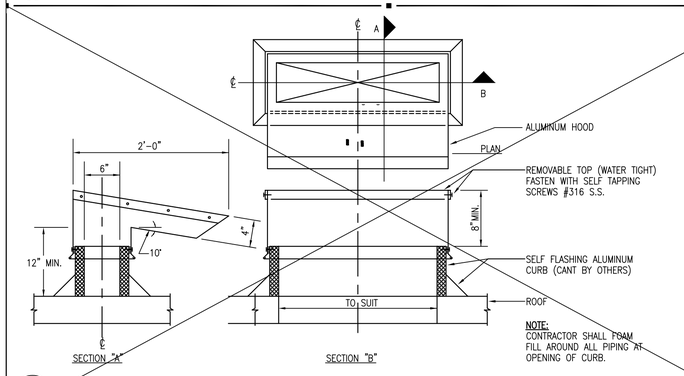
7 DRYER CONNECTION DETAIL NTS



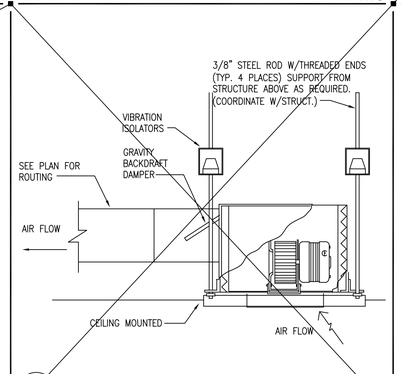
ROUTE 4 INCH RIGID METAL DRYER VENT PIPE ONLY. ROUTE UP INSIDE OF WALL AND THRU EXTERIOR WALL. PROVIDE LINT TRAP IN VERTICAL RISER. WHEN ATTACHING MULTIPLE SECTIONS OF VENT PIPE, DON'T USE SHEET METAL SCREWS USE METAL FOIL TAPE ONLY. PROVIDE A LOUVERED OUTDOOR HOOD.

NOTE: MAX. OF (2)90° BEND WILL BE ALLOWED

8 DRYER EXHAUST VENT DETAIL NTS

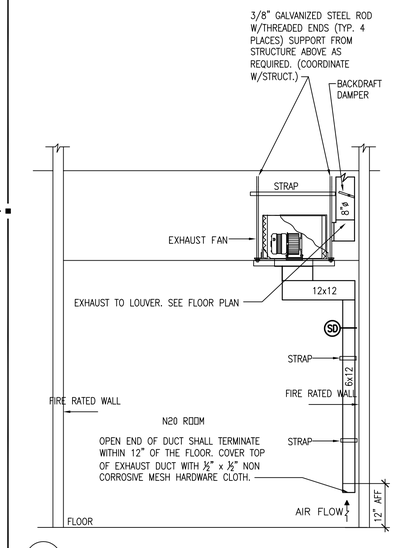


9 REFRIGERANT PIPING CURB DETAIL NTS



10 CEILING EXHAUST FAN NTS

NOTES:
1. SUPPORT INTAKE PIPES ABOVE ROOF PER MANUFACTURER'S INSTALLATION INSTRUCTIONS REQUIREMENTS.
2. INTAKE SHALL BE INSTALLED A MINIMUM OF 3'-0" FROM ANY PARAPET WALL.
3. SUPPORT MUST BE FIELD INSTALLED TO SECURE TERMINATION KIT TO STRUCTURE.



11 N20 EXHAUST FAN DETAIL NTS

THIS SHEET IS PART OF THE CONSTRUCTION DOCUMENTS, OTHER SHEETS INCLUDING SPECIFICATIONS APPLY. THAT SHOWN HEREON IS SCHEMATIC IN NATURE AND NOT TO BE USED AS A SHOP DRAWING; THEREFORE, INCLUDE ALL MODIFICATIONS REQUIRED TO CONFORM TO SITE CONDITIONS AND THE EQUIPMENT AND MATERIAL USED. VERIFY LOCATIONS AND DIMENSIONS OF ALL ARCHITECTURAL AND STRUCTURAL ELEMENTS AS SHOWN ON THEIR RESPECTIVE DOCUMENTS. THESE ELEMENTS ARE SHOWN FOR REFERENCE AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND THE ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OF THESE ELEMENTS. NO DESIGN RESPONSIBILITY IS ASSUMED FOR ANY PORTION OF THE WORK THAT THE PROFESSIONAL ENGINEER HAS NOT SIGNED AND SEALED PER STATE/PROVINCE REQUIREMENTS.

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DRAWING NO.
M301

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NOT FOR CONSTRUCTION

GENERAL NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
2. PLUMBING SYSTEMS SCOPE OF WORK TO INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING:
   A. FIELD VERIFICATION OF EXISTING CONDITIONS
   B. SANITARY WASTE AND VENT SYSTEM
   C. DOMESTIC HOT AND COLD WATER SYSTEMS
   D. PLUMBING FIXTURES AND EQUIPMENT WITH ALL TRIM, CONTROLS AND ACCESSORIES
   E. PLUMBING CONNECTIONS TO ALL EQUIPMENT PROVIDED BY OTHERS AS REQUIRED
   F. PLUMBING CONNECTIONS TO ALL EQUIPMENT PROVIDED BY OTHERS AS REQUIRED
3. PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
4. ALL MATERIALS SHALL BE NEW.
5. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
6. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
7. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. PLUMBING CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
8. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
9. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
10. VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
11. SOIL AND VENT PIPING BELOW GROUND SHALL BE SCHEDULE 40 DWV PVC W/ SOLVENT WELD JOINTS.
12. SOIL, WASTE AND VENT PIPING ABOVE GROUND SHALL BE CENTRIFUGALLY SPUNCAST IRON PIPE WITH NO-HUB FITTINGS MFG. IN U.S.A. PVC MAY NOT BE USED THRU RATED ASSEMBLIES OR IN PLENUMS.
13. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
14. FURNISH AND INSTALL APPROVED WATER HAMMER ARRESTORS FOR ALL (GROUP) PLUMBING FIXTURES, SIZED AND LOCATED PER MANUF.'S INSTALLATION INSTRUCTIONS AND WH-PDI 201. AIR CHAMBERS CAN BE USED AS AN ALTERNATE PROVIDED THAT THEY ARE ACCESSIBLE AND RECHARGEABLE PER WH-PDI 201 AND APPROVED BY THE LOCAL AUTHORITY/CODE. FURNISH AND INSTALL APPROVED AIR CHAMBERS FOR ALL MAINS AND RISERS AT THE TOP, ACCESSIBLE AND RECHARGEABLE PER WH-PDI 201 AND THE LOCAL AUTHORITY/CODE.
15. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS.
16. ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PADS OR MATERIAL. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING VOIDS BETWEEN PIPE AND WALL/FLOOR SLEEVES WITH FIRE RATED FOAM, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS AS PART OF THE PLUMBER'S WORK.
17. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
18. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND ALL WATER HAMMER ARRESTORS. ACCESS PANELS IN RATED WALLS MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
19. PROVIDE CHROME PLATED COMBINATION COVER PLATE AND CLEANOUT PLUG OR ACCESS PANEL FOR ALL WALL CLEANOUTS.
20. ALL CONTROL VALVES SHALL BE TAGGED AND MARKED. A REPRODUCIBLE DIAGRAM LOCATING ALL VALVES SHALL BE PROVIDED FOR OWNER/OPERATOR.
21. ALL CONDENSATE DRAIN PIPING SHALL BE TYPE "L" COPPER WITH 1" THICK ARMAFLEX INSULATION WHERE USED IN A RETURN AIR PLENUM. PVC PIPING WITH 1" THICK ARMAFLEX INSULATION MAY BE USED IN LOCATIONS WHERE ALLOWED BY LOCAL CODES.
22. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
23. WATER PIPING INSULATION SHALL BE 1" THICK ARMAFLEX INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS FOR ALL HOT WATER PIPING. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING ALL COLD WATER PIPING SHALL BE INSULATED WITH ARMAFLEX INSULATION.
24. PROVIDE SHUT-OFF VALVES ON ALL HOSE BIBS.
25. PROVIDE CHROME PLATED ESCUTCHEONS AT ALL PIPING PENETRATIONS THRU WALLS.
26. PROVIDE IN-LINE BACKFLOW PREVENTERS ON ALL ICE MAKER AND FILTERED WATER SYSTEM CONNECTIONS.

PLUMBING SYMBOLS LEGEND

ABBREVIATIONS:

AFF/AFG	ABOVE FINISHED FLOOR/GRADE
BFP	BACKFLOW PREVENTER
CO	CLEANOUT
FFCO/FGCO	FLUSH FLOOR/GRADE CLEANOUT
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
IW	INDIRECT WASTE
PC	PLUMBING CONTRACTOR
RI	ROUGH-IN
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
(E)	EXISTING

LINETYPES:

- - - - - - - - -	EXISTING PLUMBING LINE - SEE DRAWING
——— - ———	COLD WATER (CW)
- - - - - - - - -	PLUMBING LINE - BELOW SLAB/GRADE
——— FW ———	FILTERED WATER SUPPLY (FW)
—— — CA —— —	COMPRESSED AIR (CA)
- - - -VAC- - - -	VACUUM (VAC)
——— - - ———	HOT WATER (HW) 140°
——— T ———	TEMPERED HOT WATER (TW)
——— - - - ———	HOT WATER RETURN (HWR) 140°, 120°
——— G ———	GAS LINE (G)
——— D ———	CONDENSATE LINE (D)
——— OD ———	OVERFLOW CONDENSATE LINE (OD)
— — — — —	PLUMBING VENT (V)
▬▬▬ ▬▬▬	SANITARY WASTE (SAN) - BELOW SLAB/GRADE

GENERAL REFERENCES/NOTATIONS:

	CONNECT TO EXISTING
#	PLAN NOTE DESIGNATION
#	FIXTURE/EQUIPMENT NOTE DESIGNATION
#	FIRE PROTECTION NOTE DESIGNATION
#	REVISION DESIGNATION
#	HVAC EQUIPMENT DESIGNATION

PIPE SYMBOLS:

	PIPE TURNING UP/DOWN
	TEE TURNING UP/DOWN
	SHUTOFF VALVE (BALL TYPE)
	CHECK VALVE
	BALANCING VALVE
	END CAP

SYMBOLS LEGEND NOTES:
REFER TO SPECIFICATIONS AND PLAN NOTES FOR DETAILED DESCRIPTION OF ALL DEVICES SHOWN IN THIS SCHEDULE, PROVIDED BY THIS CONTRACTOR.

PLUMBING FIXTURE SCHEDULE

ID	FIXTURE TYPE	MANUF.	MODEL	CONNECTION SIZES CW	HW	SAN	VENT	DESCRIPTION	ACCESSORIES/OPTIONS
S-1	TREATMENT ROOM SINK	PROFLO	PFSR151562	½"	½"	2"	1½"	STAINLESS STEEL, 2-HOLE SINK	PROVIDE PROFLO #PFWS6890CP, HANDLE BAR FAUCET. PROVIDED BY OWNER, INSTALLED BY PC.
S-2	BREAK ROOM/WORK ROOM LAB SINK	PROFLO	PFSR332284 4H	½"	½"	2"	1½"	20 GA SS SINK, 8-1/8" MOUNTING DEPTH	PROVIDE ELKAY #ELKB01GN08L2, 2-LEVER HANDLE, 3-HOLE CONFIG., CHROME FAUCET. PROVIDE BASKET STRAINER AND DRAIN. PROVIDE UNIT WITH SIDE HOSE SPRAYER. PROVIDED BY OWNER, INSTALLED BY PC.
GD-1	GARBAGE DISPOSAL	IN-SINK-ERATOR	IFWD1	½"				120V/1PH, ½ HP, 6.7A, 1725 RPM.	PROVIDE DISHWASHER DRAIN CONNECTION. PROVIDED BY OWNER, INSTALLED BY PC.
RP-1	RECIRC. PUMP	TACO	008		1"			CARTRIDGE RE-CIRCULATOR, 120V/1 PH, 1/25 HP	INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDED BY PC, INSTALLED BY PC.

PLUMBING FIXTURES PROVIDED BY OWNER, PLUMBING SUBCONTRACTOR INSTALLED. SEE PLUMBING FIXTURE SCHEDULE FOR MATERIAL PROVIDED BY OWNER. FOR PLUMBING STANDARDS, SPECS, AND ORDERING, LOG IN TO:

- WWW.FERGUSON.COM
- LOG IN USING:
  - USERNAME: PLUMBING@HEARTLAND.COM
  - PASSWORD: Heartland007
- HIT "MY LISTS" IN TOP RIGHT CORNER
- SELECT NUMBER OF FIXTURES
- ADD TO CART
- HIT "CART" IN TOP RIGHT CORNER
- CHECK OUT, THIS WILL NOT PLACE THE ORDER
- ENTER JOB LOCATION
- ENTER DATE NEEDED
- ENTER ADDRESS TO BE DELIVERED TO
- ENTER TO THE ATTENTION OF AND PHONE NUMBER
- REVIEW ORDER
- HIT SUBMIT ORDER. NOW THE ORDER IS PLACED!

FOR ANY PRODUCT OR ORDERING QUESTIONS PLEASE CONTACT:
CARLA SNOW OR LYNDSEY RITCHIE WITH FERGUSON ENTERPRISES
OFFICE: (636) 300-5300
DIRECT: (913) 752-5660
EMAIL: CARLA.SNOW@FERGUSON.COM OR PREFERREDBUILDER.2375@FERGUSON.COM

NOTE: VARIOUS ACCESSORIES SUCH AS WAX RINGS, PIPING, ETC. WILL NOT BE PROVIDED BY OWNER. PLUMBING CONTRACTOR TO PROVIDE THESE IN THEIR QUOTE.

PIPE SCHEDULE

SERVICE		PIPE MATERIAL	PIPE STANDARD	FITTINGS	JOINTS
AIR	ABOVE GROUND INSIDE BUILDING	COPPER	ASTM B88, TYPE L, HARD DRAWN	ANSI B16.22 WROUGHT COPPER AND BRONZE	ASTM B32, GRADE 95TA SOLDER
	UNDERGROUND INSIDE BUILDING	COPPER	ASTM B88, TYPE K, ASTM D1785, D2665	ANSI B16.22 WROUGHT COPPER AND BRONZE	AWS A5.8 BCUP SILVER BRAZE (1)
VACUUM	INSIDE BUILDING	PVC	ANNEALED TUBING, SCHEDULE 40	PVC, ASTM D2466, D2467, F409	ASTM F656 SOLVENT WELD WITH ASTM D2564 SOLVENT CEMENT
SAN. SEWER, DRAIN, WASTE, AND VENT	UNDER GROUND INSIDE BUILDING	PVC	ASTM D1785, D2665 SCHEDULE 40	PVC, ASTM D2466, D2467, F409	ASTM F656 SOLVENT WELD WITH ASTM D2564 SOLVENT CEMENT
WATER	ABOVE GROUND INSIDE BUILDING	COPPER	ASTM B88 TYPE L, HARD DRAWN	ANSI B16.22 WROUGHT COPPER AND BRONZE	ASTM B32, GRAD 95TA SOLDER
CPVC SCHEDULE 40 AND SCHEDULE 80 PIPE SHALL BE MANUFACTURED FROM A TYPE IV, GRADE 1, CHLORINATED POLYVINYL CHLORIDE (CPVC) COMPOUND WITH A CELL CLASSIFICATION OF 23447 PER ASTM D1784.					
CPVC SCHEDULE 40 AND SCHEDULE 80 PIPE SHALL BE MANUFACTURED FROM A TYPE IV, GRADE 1, CHLORINATED POLYVINYL CHLORIDE (CPVC) COMPOUND WITH A CELL CLASSIFICATION OF 23447 PER ASTM D1784.					
THIS PIPE SHALL CARRY THE NATIONAL SANITATION FOUNDATION (NSF) SEAL OF APPROVAL FOR POTABLE WATER APPLICATIONS.					
FITTINGS ARE TO BE MANUFACTURED FROM CPVC MATERIAL WHICH MEETS OR EXCEEDS THE REQUIREMENTS OF ASTM D1784, CELL CLASSIFICATION 23447B TYPE IV, GRADE 1.					
ALL SOLVENT CEMENT USED SHALL CONFORM TO ASTMD2584, LISTED BY NSF FOR POTABLE USE APPLICATIONS.					
NO CELLULAR CORE PVC OR PEX IS TO BE USED.					

INSULATION SCHEDULE

SERVICE	LOCATION	INSULATION THICKNESS AND TYPE
COLD WATER	GENERAL BUILDING	1-1/2" RIGID F.G. OR CLOSED CELL (1) (10)
COLD WATER	IN WALLS	1-1/2" CLOSED CELL (10)
H.W. & H.W.R ON RECIRC. LOOP	GENERAL BUILDING	1-1/2" RIGID F.G. OR CLOSED CELL (10)
H.W. BRANCH NOT ON RECIRC. LOOP	GENERAL BUILDING	1-1/2" RIGID F.G. OR CLOSED CELL (10)
H.W.	IN WALLS	1-1/2" CLOSED CELL

THIS SHEET IS PART OF THE CONSTRUCTION DOCUMENTS, OTHER SHEETS INCLUDING SPECIFICATIONS APPLY. THAT SHOWN HEREON IS SCHEMATIC IN NATURE AND NOT TO BE USED AS A SHOP DRAWING; THEREFORE, INCLUDE ALL MODIFICATIONS REQUIRED TO CONFORM TO SITE CONDITIONS AND THE EQUIPMENT AND MATERIAL USED. VERIFY LOCATIONS AND DIMENSIONS OF ALL ARCHITECTURAL AND STRUCTURAL ELEMENTS AS SHOWN ON THEIR RESPECTIVE DOCUMENTS, THESE ELEMENTS ARE SHOWN FOR REFERENCE AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND THE ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OF THESE ELEMENTS. NO DESIGN RESPONSIBILITY IS ASSUMED FOR ANY PORTION OF THE WORK THAT THE PROFESSIONAL ENGINEER HAS NOT SIGNED AND SEALED PER STATE/PROVINCE REQUIREMENTS.

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REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

SEAL:

ISSUED FOR: 75% CONSTRUCTION DOCUMENTS
ISSUED DATE: 05.15.2019

DRAWN BY: XXX
CHECKED BY: XXX
PROJECT NUMBER: 2319131

DRAWING NAME:
PLUMBING SCHEDULE NOTES AND LEGEND

DRAWING NO.
P001

Plot Date: 5/31/2019 1:06:39 PM Dwg Filename: Y:_Projects\Active\2019\01201941.02\01201941.02 Drawings\INT_P001.dwg
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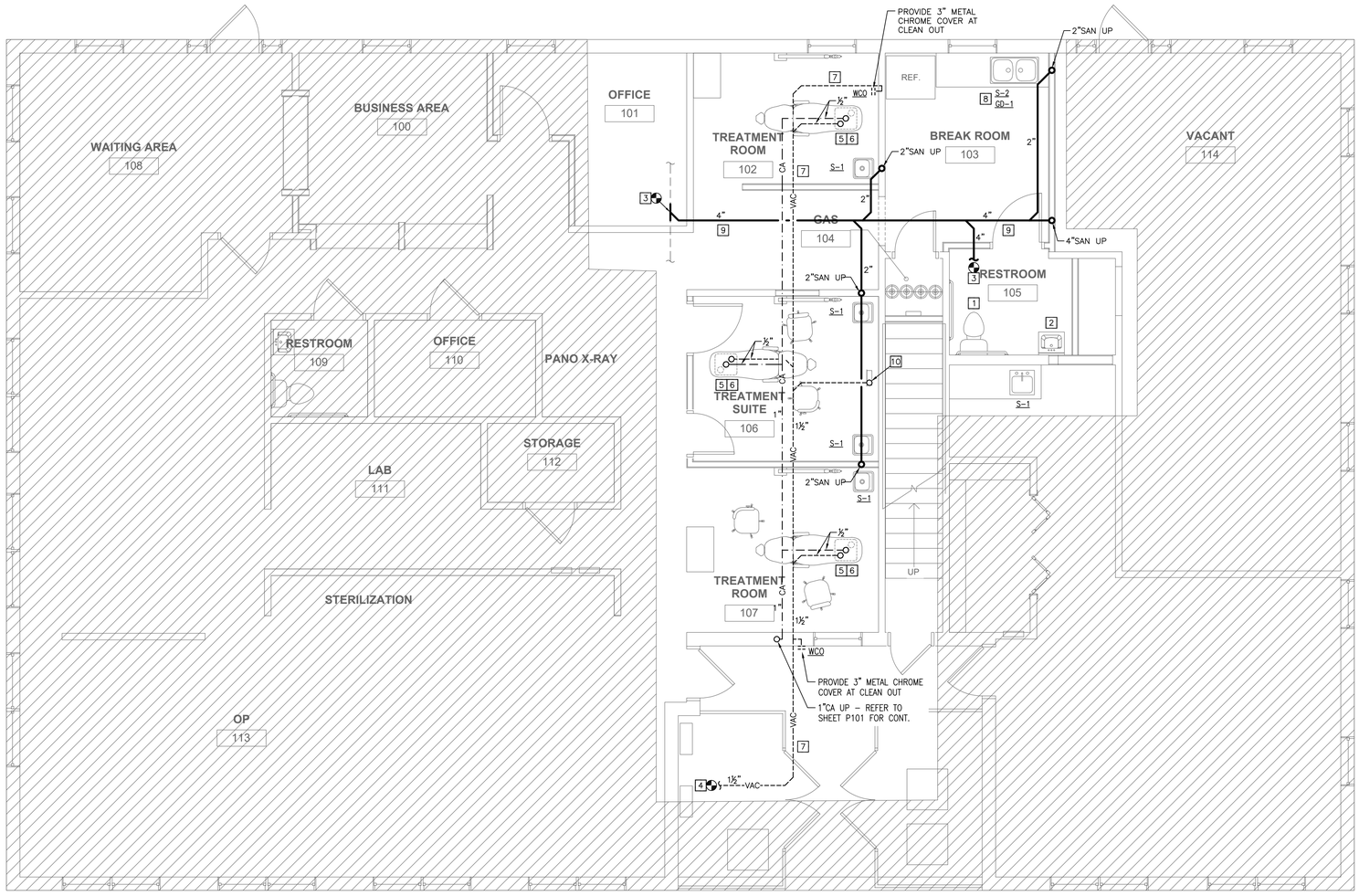

1 UNDERGROUND PLUMBING PLAN
SCALE: 1/4" = 1'-0"

NORTH

PLAN KEYED NOTES

1. PLUMBING FIXTURE EXISTING TO REMAIN. THOROUGHLY CLEAN, REPAIR, AND ADJUST AS NECESSARY FOR LIKE NEW CONDITION.
2. PLUMBING FIXTURE AND ACCESSORIES TO BE RELOCATED. REROUTE, REINFORCE, AND CORE DRILL AS NECESSARY.
3. CONNECT TO EXISTING SANITARY WASTE LINE. FIELD VERIFY EXACT LOCATION AND MAKE NECESSARY CONNECTIONS AS REQUIRED.
4. CONNECT TO EXISTING VACUUM PUMP. FIELD VERIFY REQUIREMENTS.
5. PROVIDE VACUUM SYSTEM AT EACH CHAIR CONNECTION, AND SLOPE THE VACUUM MAIN TOWARD THE VACUUM PUMP. COORDINATE WITH GENERAL CONTRACTOR LOCATION OF SANITARY SEWER AND CHAIR UTILITIES. COORDINATE EQUIPMENT LOCATION WITH OWNER AND EQUIPMENT ROUGH-IN WITH MEDICAL EQUIPMENT SUPPLIER.
6. PATENT CHAIR SYSTEM UTILITY BOX – PROVIDE ROUGH-IN AND PIPING TO 4" ABOVE FINISHED FLOOR. ½" CPVC COLD WATER PIPE WITH ANGLE-STOP VALVE. ½" COPPER COMPRESSED AIR PIPE WITH ANGLE-STOP VALVE. ½" VACUUM LINE UP FROM 1½" MAIN LINE.
7. VACUUM MAIN LINE TO BE SCHEDULE 40 PVC (WHERE PERMITTED BY CODE). SLOPE VACUUM MAIN TOWARDS PUMP.
8. PROVIDE PLUMBING FIXTURE WITH GARBAGE DISPOSAL AND HOSE SPRAY.
9. COORDINATE ROUTING OF UNDERGROUND PIPING WITH BUILDING FOOTINGS AND ADJUST ROUTING ACCORDINGLY.
10. ⅝" O.D. COPPER VACUUM LINE UP TO FLOW METER ASSEMBLY. REFER TO DETAIL ON SHEET P102. PROVIDE ⅜" I.D. COPPER LINE TERMINATION AT FLOW METER CONNECTION.

VACUUM NOTES

THE VACUUM PIPING LAYOUT HAS A LARGE EFFECT ON THE EFFICIENCY AND RELIABILITY OF THE DENTAL VACUUM SYSTEM. REFER TO MANUFACTURER'S PRE-INSTALLATION GUIDE PROVIDED BY PATTERSON EQUIPMENT SALES SPECIALIST (ESS) FOR SPECIFIC SIZING OF STUB-UP, TRUNK, AND BRANCH LINES.

IT IS HIGHLY RECOMMENDED THAT VACUUM LINES RUN UNDERNEATH DENTAL EQUIPMENT BY MEANS OF TRENCHING/CORING (CONCRETE SLAB) OR IN SUB FLOOR (BASEMENT/CRAWL SPACE). ALL LINES ARE TO BE DESIGN WITH PVC PIPING UNLESS DICTATED BY LOCAL CODES TO USE COPPER OR CAST IRON.

TO ENSURE OPTIMUM VACUUM PERFORMANCE, INSTALL MAIN LINE DIRECTLY BELOW THE DENTAL CHAIR, CABINET OR WALL JUNCTION BOX TO REDUCE OR ELIMINATE BRANCH LINE RUNS WHEREVER POSSIBLE.

1. STUB-UP
   TERMINATE VACUUM TRUNK LINE IN MECHANICAL ROOM WITH VERTICAL STUB-UP 3" A.F.F. PLUMBING CONTRACTOR TO PROVDE FPT ADAPTOR ON END OF STUB-UP. SIZE OF ADAPTOR TO BE DETEMINED BY TRUNK AND PUMP INTAKE PIPE SIZES. IN THE CASE OF DUAL TRUNK LINE SYSTEMS, PROVIDE ENOUGH SPACE BETWEEN STUB-UPS TO INSTALL TEES ON BOTH LINES.
2. TRUNK LINES(S)
   VACUUM TRUNK LINES(S) TO BE SUPPORTED EVERY 6'-0" TO PREVENT SAGE AND SLOPED A MINIMUM OF 1/4" PER 10'-0" TOWARD THE VACUUM PUMP.
3. BRANCH LINES(S)
   BRANCH LINES ARE TO BE "SWEEPING" 90 DEGREE TURNS TO AVOID VACUUM LOSS. A "Y" TEE FITTING SHOULD BE USED WHEN AVAILABLE TO BRANCH TWO LINES TOGETHER.

GENERAL NOTES

1. CONTRACTOR TO PROVIDE TRAP PRIMERS AND TRAP GUARDS ON ALL FLOOR DRAINS.
2. NO DOUBLE Ys. ALL MUST BE OFF SET.
3. COORDINATE ROUTING OF UNDERGROUND PIPING WITH BUILDING FOOTINGS AND ADJUST ROUTING ACCORDINGLY.

WASTE & VENT SCHEDULE

FIXTURE	QTY.	DFU	TOTAL	WASTE	VENT
TREATMENT ROOM (S-1)	4	2.0	8	2"	1½"
BREAK ROOM (S-2)	1	2.0	2.00	2"	1½"
		DFU TOTAL	10.0		

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REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

SEAL:

ISSUED FOR: 75% CONSTRUCTION DOCUMENTS
ISSUED DATE: 05.15.2019

DRAWN BY: **MDB**
CHECKED BY: **JMB**
PROJECT NUMBER: 2319131

DRAWING NAME:
UNDERGROUND PLUMBING PLAN

DRAWING NO.
P100

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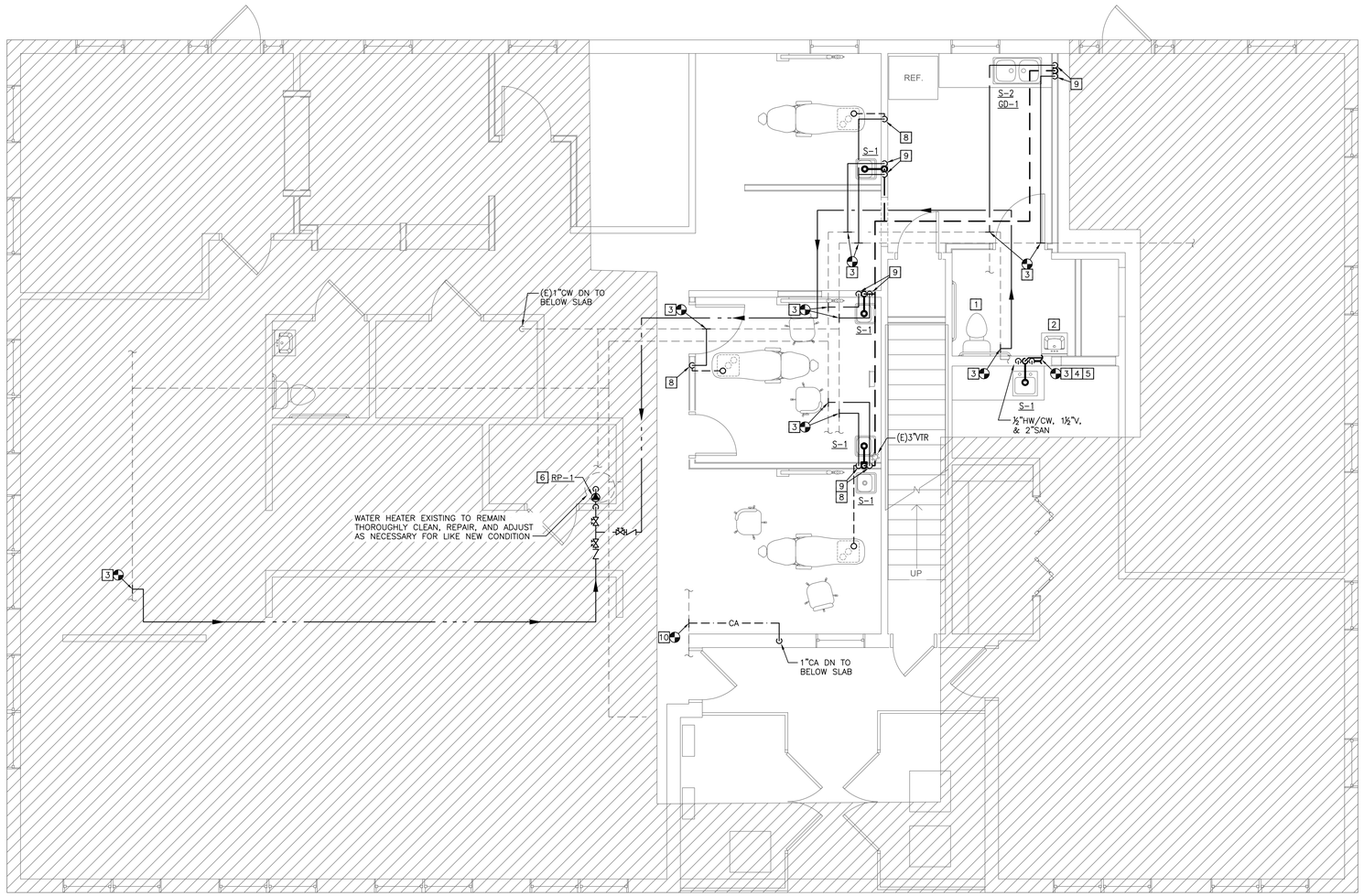
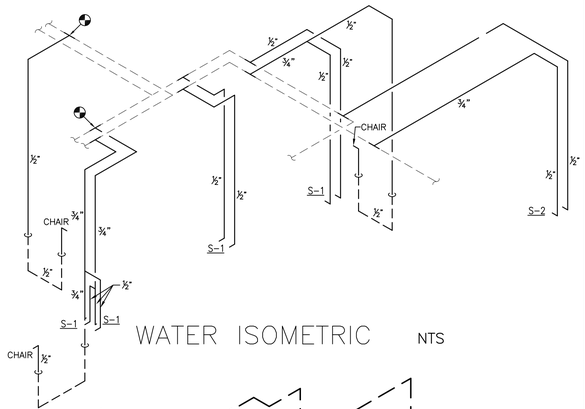
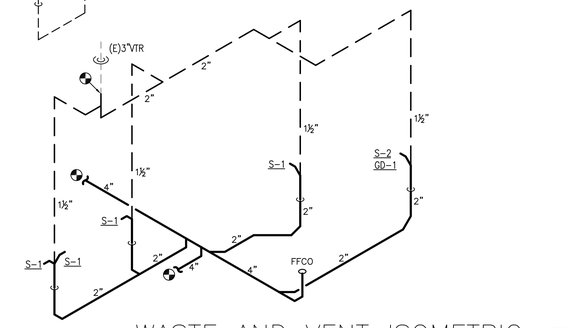


1 ABOVEGROUND PLUMBING PLAN
SCALE: 1/4" = 1'-0"





NORTH

PLAN KEYED NOTES

1. PLUMBING FIXTURE EXISTING TO REMAIN. THOROUGHLY CLEAN, REPAIR, AND ADJUST AS NECESSARY FOR LIKE NEW CONDITION.
2. PLUMBING FIXTURE TO BE RELOCATED. RE-WORK, REINFORCE, REROUTE, CORE DRILL, AND CONNECT TO EXISTING PIPING AS REQUIRED.CONNECT TO EXISTING DOMESTIC WATER LINE. FIELD VERIFY EXACT LOCATION AND MAKE NECESSARY CONNECTIONS AS REQUIRED.
3. CONNECT TO EXISTING DOMESTIC WATER LINE. FIELD VERIFY EXACT LOCATION AND MAKE NECESSARY CONNECTIONS AS REQUIRED.
4. CONNECT TO SANITARY WASTE LINE. FIELD VERIFY EXACT LOCATION AND MAKE NECESSARY CONNECTIONS AS REQUIRED.
5. CONNECT TO SANITARY VENT LINE. FIELD VERIFY EXACT LOCATION AND MAKE NECESSARY CONNECTIONS AS REQUIRED.
6. PROVIDE RE-CIRCULATION PUMP IN THE WATER HEATER ROOM CIRCULATING TEMPERED WATER THRU ALL THE OFFICE.
7. ½" CW TO REFRIGERATOR BOX.
8. ½" FILTERED WATER FROM ABOVE DOWN IN WALL THEN ROUTE UNDER SLAB TO DENTAL CHAIR. PROVIDE ACCESS PANELS.
9. ½" FILTERED WATER AND TEMPERED WATER DOWN TOT SINKS.
10. CONNECT TO EXISTING COMPRESSED AIR LINE. FIELD VERIFY EXACT LOCATION AND MAKE NECESSARY CONNECTIONS AS REQUIRED.

GENERAL NOTES

1. CONTRACTOR TO PROVIDE TRAP PRIMERS AND TRAP GUARDS ON ALL FLOOR DRAINS.

WATER HEATER SIZING CALCULATION

FIXTURE	QTY.	GPH/ DAY	TOTAL GPH/ DAY	OPER. TOTAL	NON-OPER. TOTAL
TREATMENT ROOM (S-1)	4	10	40	40.0	0
BREAK ROOM (S-2)	1	10	10	10.0	0
EXISTING LAVATORY	2	5	10	10.0	0
EXISTING MOP BASIN	1	10	10	0	10.0
EXISTING TREATMENT ROOM	9	10	90	90	0
EXISTING LAB SINK	2	10.00	20.00	20.0	0
EXISTING CLOTHES WASHER BOX	1	12.00	12.00	0	12.0
TOTAL			192.0	170.0	22.0
TOTAL X 50% FOR DIVERSITY FACTOR				85.0	11.0

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REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

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ISSUED DATE: 05.15.2019

DRAWN BY: **MDB**
CHECKED BY: **JMB**
PROJECT NUMBER: 2319131

DRAWING NAME:
ABOVE GROUND PLUMBING PLAN

DRAWING NO.
P101

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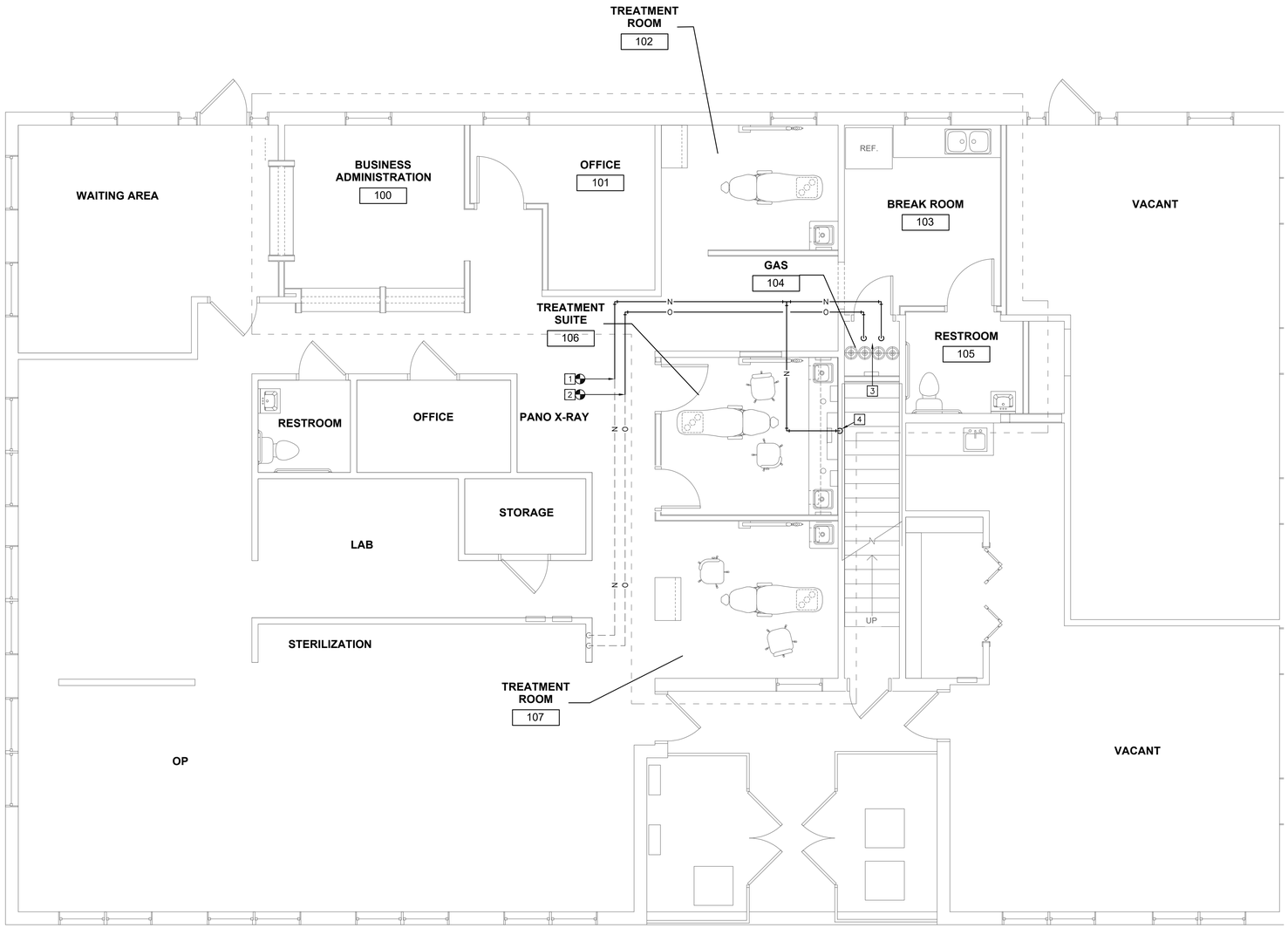


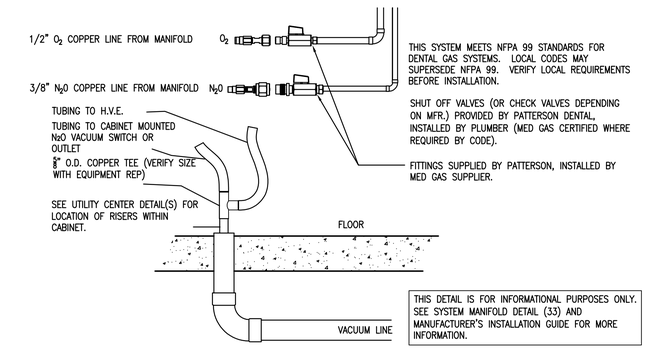
1 MEDICAL GAS PLAN
SCALE: 1/4" = 1'-0"

PLAN KEYED NOTES

1. CONNECT TO EXISTING NITROUS OXIDE LINE. FIELD VERIFY EXACT LOCATION AND MAKE NECESSARY CONNECTIONS AS REQUIRED.
2. CONNECT TO EXISTING OXYGEN LINE. FIELD VERIFY EXACT LOCATION AND MAKE NECESSARY CONNECTIONS AS REQUIRED.
3. ⅜" O.D. NITROUS OXIDE AND ½" O.D. OXYGEN LINES DOWN TO MANIFOLD AT 48" AFF REFER TO DETAIL ON THIS SHEET.
4. ⅜" O.D. NITROUS OXIDE AND ½" O.D. OXYGEN LINES DOWN TO FLOW METER ASSEMBLY. COORDINATE LOCATION WITH OWNER AND MEDICAL EQUIPMENT SUPPLIER. REFER TO DETAIL ON THIS SHEET.

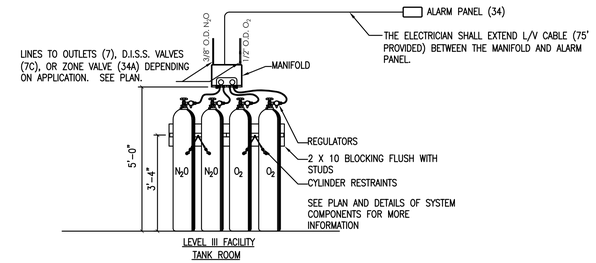
GENERAL NOTES

1. MEDICAL GAS PIPING TO BE SILVER SOLDERED TYPE K OR L COPPER.
2. ALL PIPING TO MEETE THE LATEST NFPA MEDICAL GAS REQUIREMENTS.
3. G.C. IS RESPONSIBLE FOR FACILITATING AN INDEPENDENT 3RD PARTY MEDICAL GAS INSPECTION.



THIS DETAIL IS FOR INFORMATIONAL PURPOSES ONLY. SEE SYSTEM MANIFOLD DETAIL (33) AND MANUFACTURER'S INSTALLATION GUIDE FOR MORE INFORMATION.

1 N_2O SYSTEM TERMINATIONS NTS



WITH LESS THAN 3000 CU. FT. GAS (INCLUDING STORAGE, EXCLUDING NITROGEN)

LEVEL III SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING REQUIREMENTS:

1. NO MORE THAN 3000 CU. FT. TOTAL CAPACITY OF ALL GASES CONNECTED AND IN STORAGE AT ONE TIME.
2. ENCLOSURE FOR SUPPLY SYSTEMS SHALL BE PROVIDED WITH DOORS OR GATES THAT MAY BE LOCKED.
3. DOORS TO SUPPLY SYSTEM STORAGE LOCATIONS SHALL BE PROVIDED WITH A LOUVERED OPENING HAVING A MINIMUM OF 72 SQ. IN. TOTAL FREE AREA. BUT, LOUVER IS ONLY NEEDED WHEN NO OTHER VENTING IS POSSIBLE.
4. EACH CYLINDER OF GAS SHALL HAVE A LISTED PRESSURE REGULATOR DIRECTLY CONNECTED.
5. A PRESSURE RELIEF VALVE SET AT 50 PERCENT ABOVE (75 PSIG.) NORMAL LINE PRESSURE (50 PSIG).
6. A SHUT-OFF VALVE OR CHECK VALVE SHALL BE INSTALLED DOWNSTREAM OF EACH PRESSURE REGULATOR.
7. A PRESSURE GAUGE SHALL BE INSTALLED IN THE MAIN LINE ADJACENT TO THE ACTUATING SWITCH... IT SHALL BE APPROPRIATELY LABELED.
8. PIPING SHALL BE SEAMLESS TYPE K OR L (ASTM B88) COPPER TUBING... SHALL BE THOROUGHLY CLEANED OF OIL GREASE... AND BE TEMPORARILY CAPPED OR PLUGGED TO PREVENT RECONTAMINATION.
9. FLEXIBLE CONNECTORS OF OTHER THAN ALL-METAL CONSTRUCTION USED TO CONNECT OUTLETS OF PRESSURE REGULATORS TO FIXED PIPING SHALL HAVE A MINIMUM BURST PRESSURE OF 1000 PSIG AND SHALL NOT PENETRATE WALLS,
10. BEFORE CLOSING OF THE WALLS, EACH SECTION OF THE PIPING SYSTEM, EXCLUDING MANIFOLD, SHALL BE SUBJECTED TO A MINIMUM TEST PRESSURE OF 150 PSIG WITH OIL-FREE, DRY AIR OR NITROGEN. THIS TEST PRESSURE SHALL BE MAINTAINED UNTIL EACH JOINT HAS BEEN EXAMINED FOR LEAKAGE, AND ANY LEAKS LOCATED SHALL BE REPAIRED AND RETESTED AS ABOVE. AFTER TESTING AS ABOVE, THE COMPLETELY ASSEMBLED PIPING SYSTEM SHALL BE SUBJECTED TO A 24-HOUR STANDING PRESSURE TEST AT 20 PERCENT ABOVE THE NORMAL OPERATING LINE PRESSURE USING REQUIRED TEST GAS. IS ACCEPTABLE.
11. PIPING SYSTEMS, WITH THE EXCEPTION OF NITROGEN SYSTEMS, SHALL BE CAPABLE OF DELIVERING 50 TO 55 PSIG TO ALL OUTLETS AT THE MAXIMUM FLOW RATE.
12. ALL BRAZED JOINTS IN THE PIPING SHALL BE MADE UP USING BRAZING FILLER ALLOYS THAT BOND WITH THE BASE METALS BEING BRAZED AND THAT COMPLY WITH "SPECIFICATIONS FOR BRAZING FILLER METAL," ANSI/AWS A5.8. A) COPPER-TO-COPPER JOINTS SHALL BE MADE USING A COPPER-PHOSPHORUS BRAZING FILLER ALLOY (BCUP SERIES) WITHOUT FLUX. B) DISSIMILAR METALS SUCH AS COPPER AND BRASS SHALL BE JOINED USING AN APPROPRIATE FLUX WITH EITHER A COPPER-PHOSPHORUS (BCUP SERIES) OR A SILVER (BAG SERIES) BRAZING FILLER ALLOY. APPLY FLUX SPARINGLY AND IN A MANNER TO AVOID LEAKING ANY EXCESS INSIDE OF COMPLETED JOINTS. USE OF PREFLUXED ROD USE-POINT LOCATIONS IN AN EMERGENCY.
13. AUDIBLE AND NON-CANCELABLE VISUAL SIGNALS SHALL INDICATE IF THE PRESSURE IN THE MAIN LINE INCREASES OR DECREASES 20 PERCENT FROM THE NORMAL OPERATING PRESSURE, AND SHALL BE INSTALLED IN THE OFFICE OR PRINCIPAL WORKING AREA OF THE INDIVIDUAL RESPONSIBLE FOR THE MAINTENANCE OF THE MEDICAL GAS SYSTEM, TO ASSURE CONTINUOUS SURVEILLANCE.
14. WHERE THE CENTRAL SUPPLY IS REMOTE FROM THE MEDICAL GAS SYSTEMS USE POINTS, THE MAIN SUPPLY LINE SHALL BE PROVIDED WITH A SHUT-OFF VALVE SO LOCATED IN THE TREATMENT FACILITY AS TO BE ACCESSIBLE FROM
15. OUTLET STATIONS SHALL BE DESIGNED SO THAT PARTS OR COMPONENTS THAT ARE REQUIRED TO BE GAS SPECIFIC CANNOT BE INTERCHANGED BETWEEN STATION OUTLETS FOR DIFFERENT GASES.
16. LABELING SHALL APPEAR ON THE PIPING AT INTERVALS OF NOT MORE THAN 20 FT. AND AT LEAST ONCE IN EACH ROOM AND EACH STORY TRAVERSED BY THE PIPING SYSTEMS.

2 PORTER SENTINEL N_2O, O_2 SYSTEM NTS MANIFOLD

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REVISIONS

REV	DATE	DESCRIPTION/COMMENTS

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MEDICAL GAS PLAN

DRAWING NO.
P102

Plot Date: 5/31/2019 7:47:41 AM Dwg Filename: Y:_Projects\Active\2019\01\2019141.02\01\2019141.02 Drawings\INT_P102.dwg
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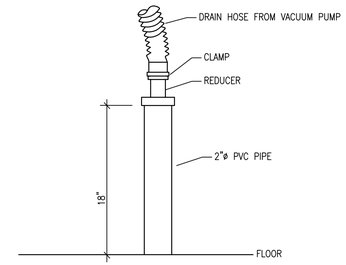
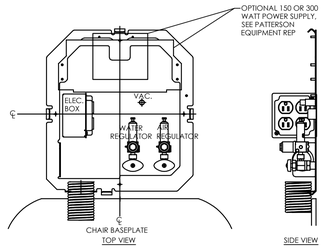
NOT FOR CONSTRUCTION



01 VACUUM DRAIN LINE
NOT TO SCALE



PELTON 1700 ENTERPRISE PACKAGE
UTILITY CENTER (NO TRANSFORMER)
NOT TO SCALE

GENERAL NOTES:

- THIS DETAIL IS FOR INFORMATIONAL PURPOSES ONLY. DENTAL DEALER WILL PROVIDE INSTALLATION TEMPLATES FOR ANY EQUIPMENT IN QUESTION. REFER TO MANUFACTURER'S INSTALLATION GUIDE/TEMPLATE FOR ADDITIONAL INFORMATION.
- LICENSED PLUMBERS AND ELECTRICIANS SHALL INSTALL ALL UTILITIES.
- ALL FLOOR CLEAN OUTS ARE TO BE LOCATED 12" FROM INTERIOR WALL.
- ALL FLOOR CLEAN OUTS LOCATED AT PERIMETER WALL TO BE COORDINATED WITH FOUNDATION.

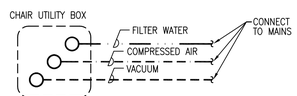
AIR: PLUMBING CONTRACTOR TO PROVIDE AND INSTALL A 1/2" COPPER (OR ACCEPTED) SUPPLY LINE FROM AIR COMPRESSOR TO THIS LOCATION. STUB-UP 1-2" FROM FLOOR AND TERMINATE WITH A 90° 1/2" x 3/8" COMPRESSION SHUT-OFF VALVE. FLUSH SYSTEM CLEAN PRIOR TO EQUIPMENT INSTALLATION.

WATER: PLUMBING CONTRACTOR TO PROVIDE AND INSTALL A 1/2" COPPER (OR ACCEPTED) COLD WATER SUPPLY LINE TO THIS LOCATION. STUB-UP 1-2" FROM FLOOR AND TERMINATE WITH A 90° 1/2" x 3/8" COMPRESSION SHUT-OFF VALVE. FLUSH SYSTEM CLEAN PRIOR TO EQUIPMENT INSTALLATION.

ELECTRICAL: ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A 1/2" CONDUIT AND BOX WITH 115V QUAD (OR EQUAL) RECEPTACLE. WIRE BOX PER CODE WITH TOP NO HIGHER THAN 4-1/2" A.F.F.

CENTRAL VACUUM: PLUMBING CONTRACTOR TO PROVIDE A BRANCH LINE TO LOCATION SHOWN (SIZE PER CENTRAL VACUUM SUPPLIER). REDUCE TO A 1/2" SCH. 40 PVC (OR COPPER) RISER AT FLOOR. TERMINATE 1-2" ABOVE FINISHED FLOOR FOR CONNECTION TO EQUIPMENT.

U-ALL UTILITIES MUST CONFORM WITH PREVAILING LOCAL CODES.
NEITHER DENTAL DEALER NOR MANUFACTURER CAN BE HELD RESPONSIBLE FOR AN INSTALLATION WHICH DOES NOT MEET LOCAL ELECTRICAL AND PLUMBING CODES.

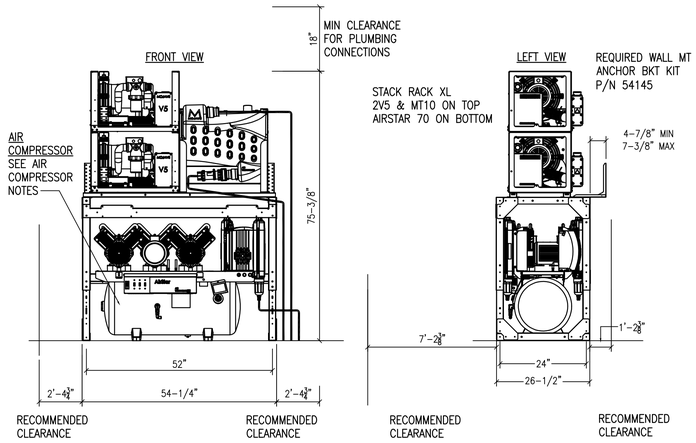


PATIENT CHAIR SYSTEM UTILITY BOX – PROVIDE ROUGH-IN AND PIPING TO 4" ABOVE FINISHED FLOOR. 1/2" CPVC COLD WATER PIPE WITH ANGLE-STOP VALVE. 1/2" COPPER COMPRESSED AIR PIPE WITH ANGLE-STOP VALVE. 1/2" VACUUM LINE UP FROM 1-1/2" MAIN LINE.

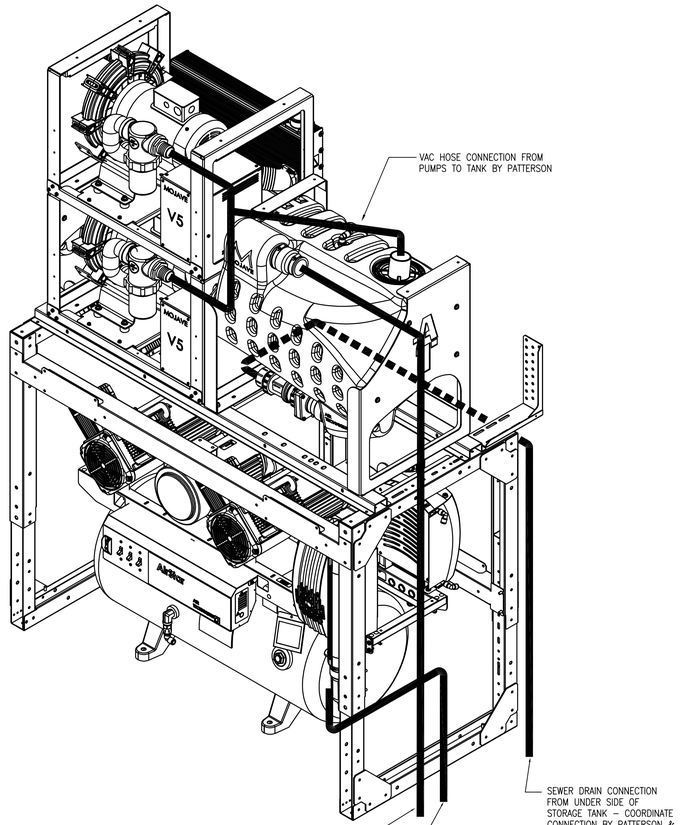
NOTE A:
VACUUM SYSTEM CLEANOUT.
EXTEND THE END OF EACH MAIN AND LARGER BRANCH LINE PIPE UP INTO A DENTAL CABINET OR WALL BOX. INSTALL A THREADED CAP ON THE END OF PIPE. THIS WILL PROVIDE FOR FUTURE CLEANING OF THE VACUUM PLUMBING SHOULD A CLOG OCCUR.

NOTE B:
USE 45 DEGREE ANGLE CONNECTION WHEREVER POSSIBLE TO ENSURE PROPER VACUUM FLOW.

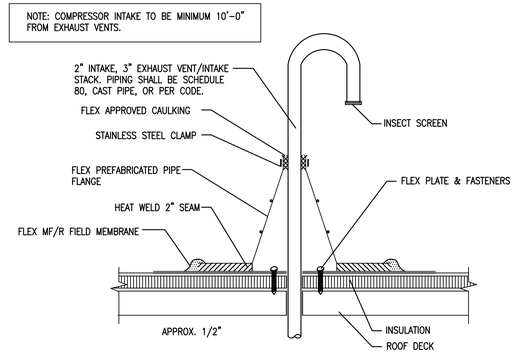
07 PELTON 1700 UTILITY CENTER
NOT TO SCALE



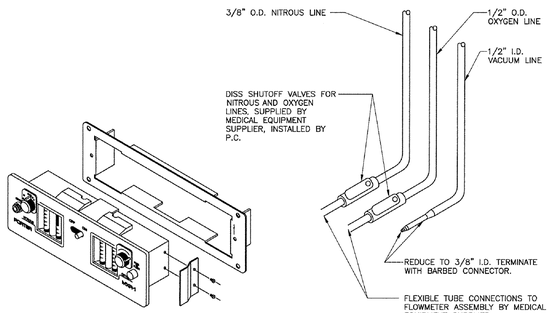
ISOMETRIC VIEW



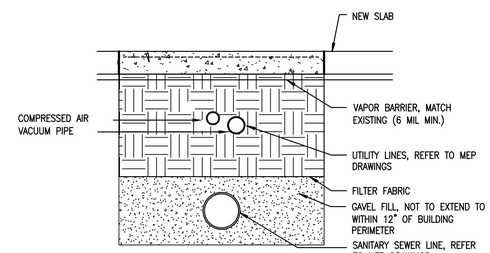
06 VACUUM INSTALLATION
NOT TO SCALE



02 COMPRESSOR INTAKE & VACUUM EXHAUST VENT
NOT TO SCALE



03 FLOW METER CONNECTION DETAIL
NOT TO SCALE



04 TYPICAL SECTION AT UTILITIES 'A-A' TRENCH
NOT TO SCALE

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PLUMBING DETAILS

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