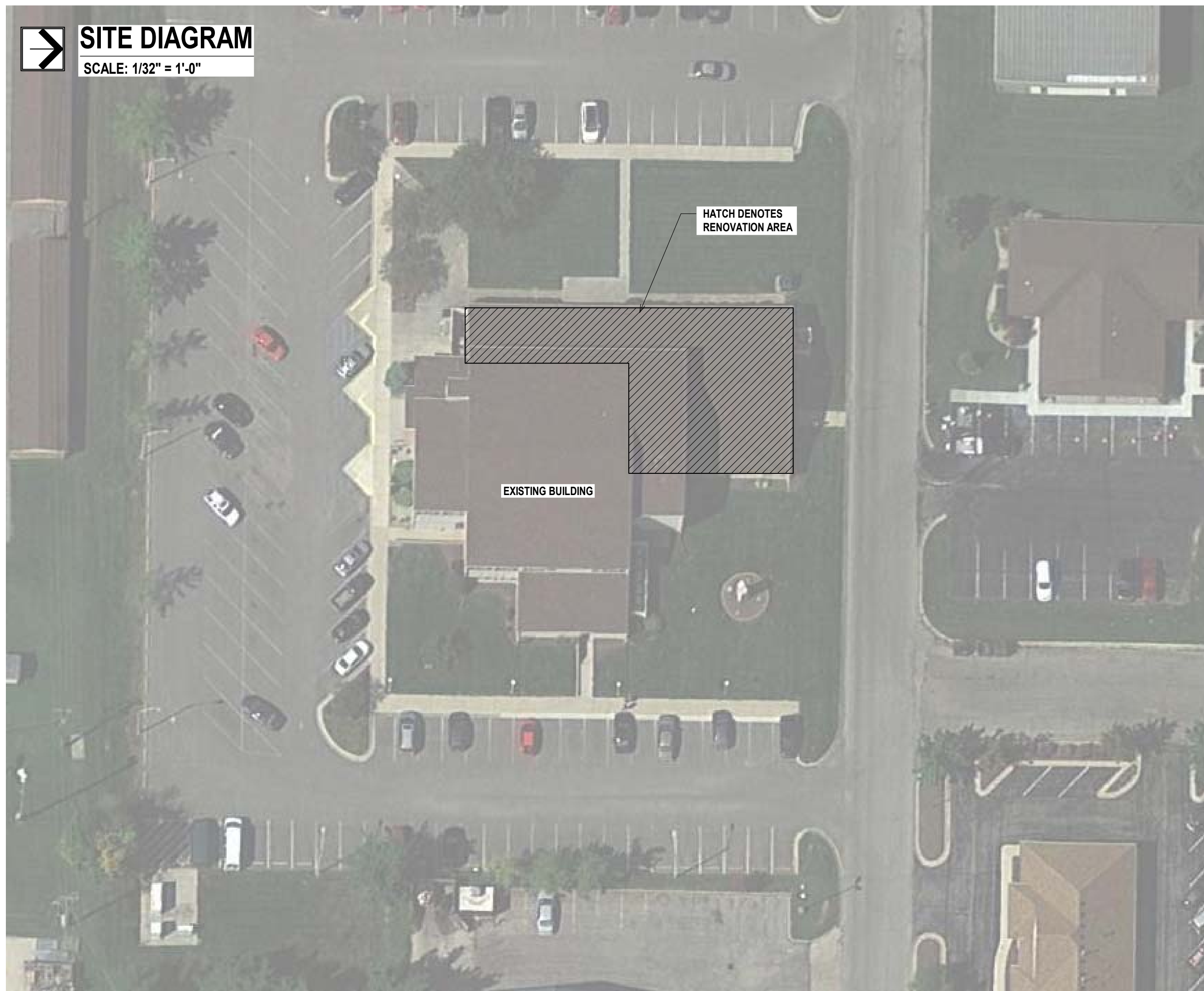


RENOVATION FOR

CENTERSTONE RICHMOND

831 DILLON DRIVE
RICHMOND, IN 47374

Wayne County
Wayne Township
4/5/2023



HALSTEAD ARCHITECTS
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CERTIFIED BY:

REVISIONS

NO.	DESCRIPTION	DATE

SHEET INDEX
COVER SHEET

DEMOLITION
DZ.1 DEMOLITION PLANS

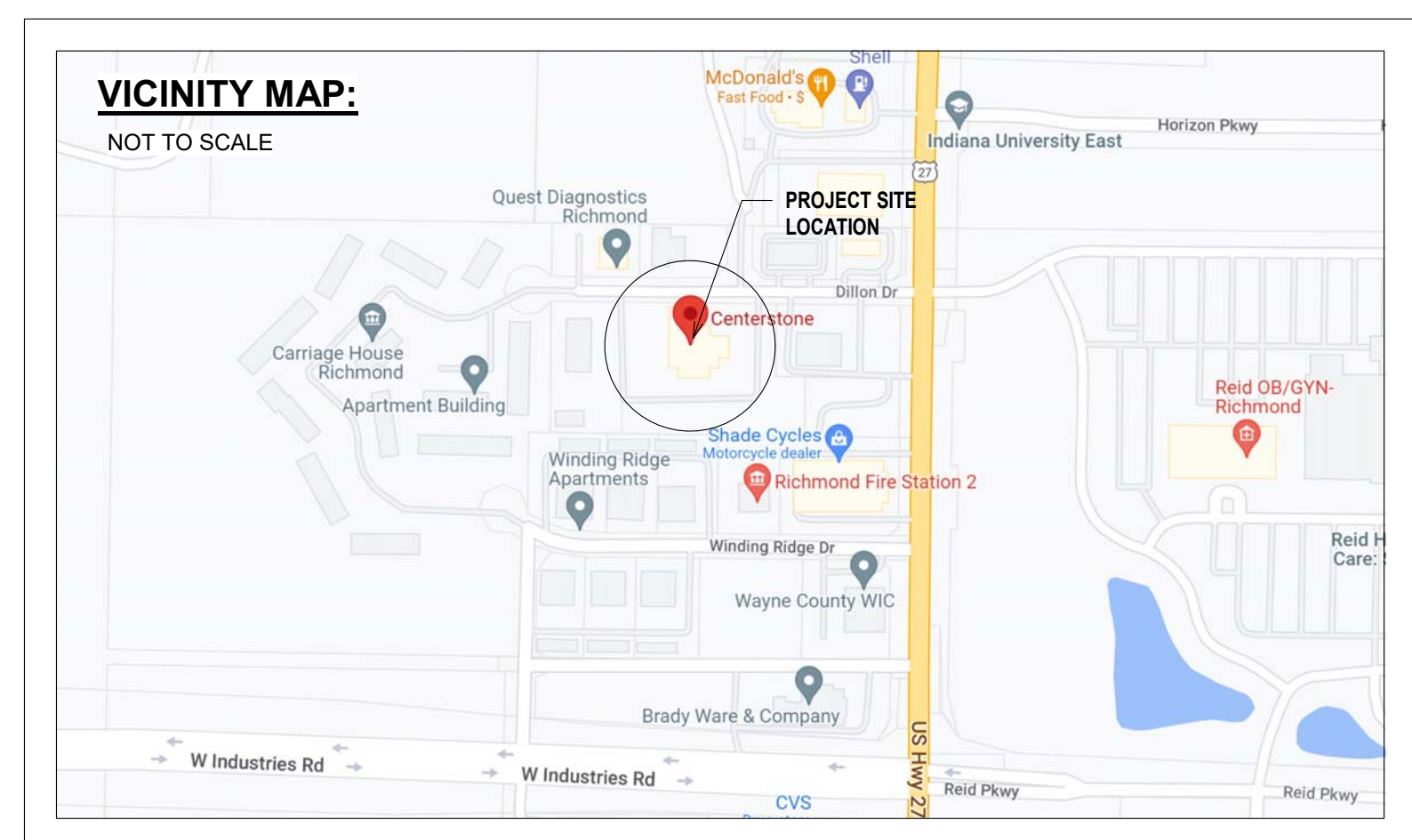
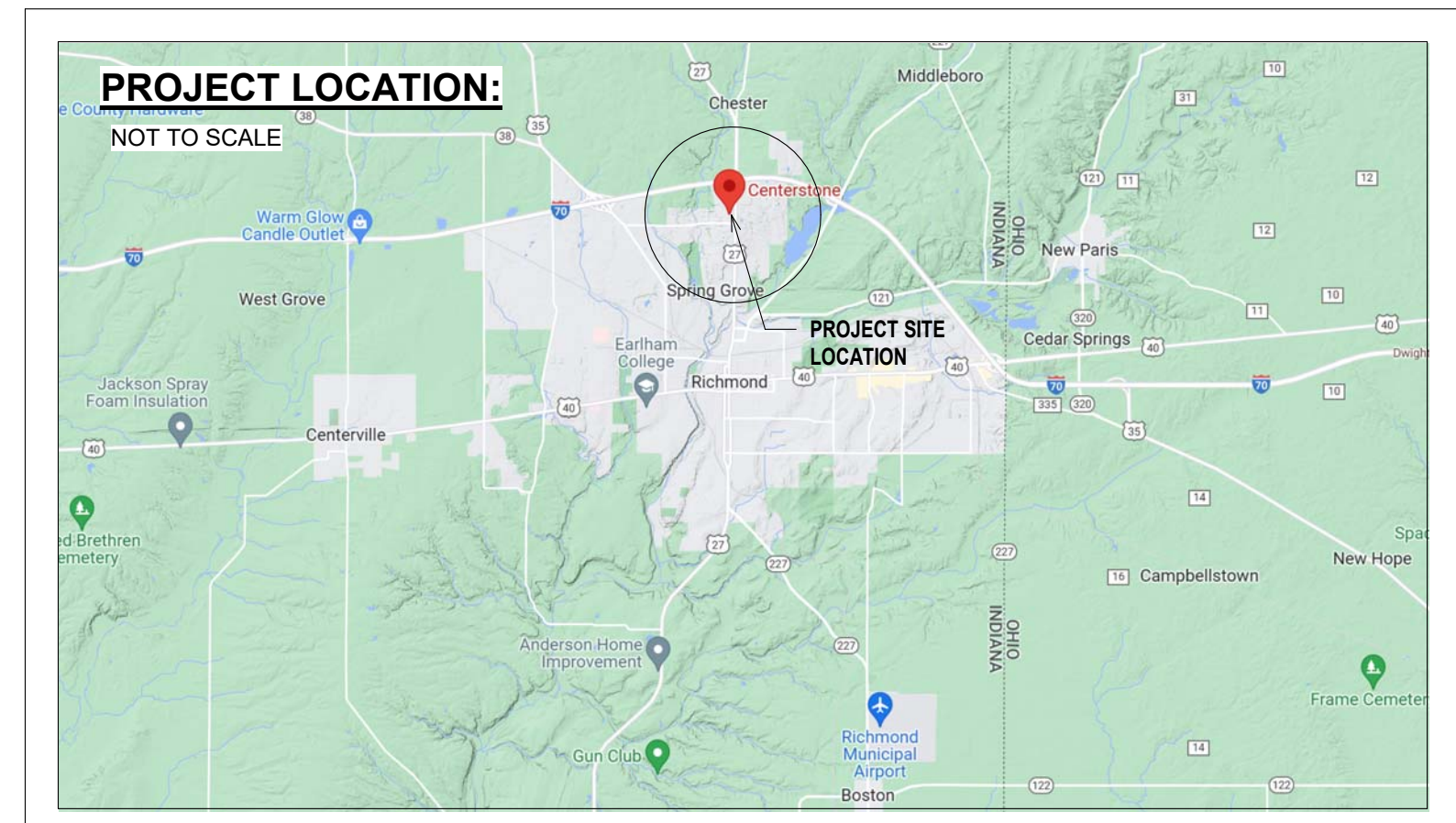
LIFE SAFETY
LS2.1 LIFE SAFETY PLAN & CODE SUMMARY

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STANDARD ABBREVIATIONS

A.F.F. - ABOVE FINISHED FLOOR	F.F.E. - FINISHED FLOOR ELEVATION	MIN. - MINIMUM OR MINUTE
ALT. - ALTERNATE	FIN. FL. - FINISHED FLOOR	M.O. - MASONRY OPENING
ALUM. - ALUMINUM	FLUOR. - FLUORESCENT	MTL. - METAL
C.J. - CONTROL JOINT	FTG. - FOOTING	O.C. - ON CENTER
CLG. - CEILING	GA. - GAUGE	OPP. HAND - OPPOSITE HAND
CMU - CONCRETE MASONRY UNIT	GALV. - GALVANIZED	PLYWD. - PLYWOOD
CONC. - CONCRETE	GYP. BD. - GYPSUM BOARD	PREFIN. - PREFINISHED
C.T. - CERAMIC TILE	HCW - HOLLOW CORE WOOD	R.O. - ROUGH OPENING
DEMO. - DEMOLITION	H.M. - HOLLOW METAL	SCHED. - SCHEDULE
DN. - DOWN	HORIZ. - HORIZONTALLY	SCW - SOLID CORE WOOD
DS. - DOWNSPOUT	HT. - HEIGHT	SIM. - SIMILAR
E.J. - EXPANSION JOINT	INSUL. - INSULATION	TEMP. - TEMPERED
ELEC. - ELECTRICAL	INT. - INTERIOR	TYP. - TYPICAL
ELEV. - ELEVATION	LAM. - LAMINATE	VCT. - VINYL COMPOSITION TILE
EXIST. - EXISTING	MECH. - MECHANICAL	VERT. - VERTICAL
EXT. - EXTERIOR	MFR. - MANUFACTURER	V.I.F. - VERIFY IN FIELD

SUMMARY OF WORK
INTERIOR RENOVATION FOR MEDICAL CLINIC EXPANSION

PROJECT DATA:

BUILDING CODE: 2014 INDIANA BUILDING CODE (IBC) (2012 INTERNATIONAL BUILDING CODE W/ IN. AMENDMENTS) 2009 ANSI A117.1
2009 ICC A-117.1 ACCESSIBILITY STANDARD
2010 INDIANA ENERGY CONSERVATION CODE (2007 ASHRAE 90.1)
2009 INDIANA ELECTRICAL CODE (2008 NFPA 70)
2014 INDIANA MECHANICAL CODE (2012 IMC, 1ST PRINTING)
2014 INDIANA FUEL GAS CODE (2012 IFGC, 2ND PRINTING)
2012 INDIANA PLUMBING CODE (2006 IPC)
2014 INDIANA FIRE CODE (2012 INTERNATIONAL FIRE CODE)

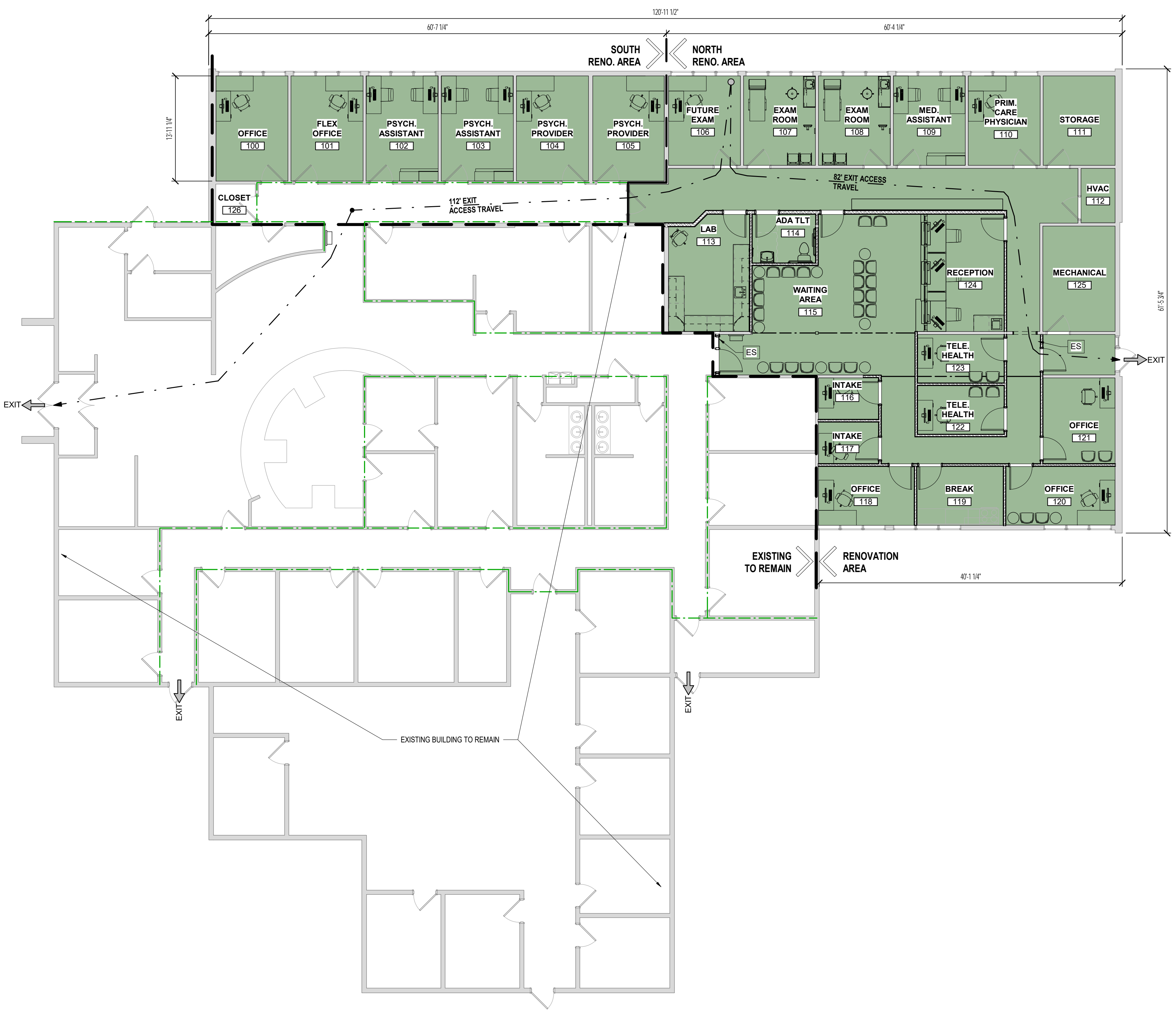
BUILDING AREA: 19,620 SQ. FT.
FIRST FLOOR: 12,416 SQ. FT.
SECOND FLOOR: 7,204 SQ. FT.
RENOVATION AREA: 4,037 SQ. FT. NORTH RENO. AREA: 2,908 SQ. FT. SOUTH RENO. AREA: 1,129 SQ. FT.

CONSTRUCTION TYPE: V - B
OCCUPANCY GROUP: B

RENOVATION FOR
CENTERSTONE RICHMOND

JOB #: 2265
ISSUE: CONSTRUCTION DOCUMENTS - 4/5/2023

HALSTEAD ARCHITECTS



LIFE SAFETY LEGEND

SYMBOL	DESCRIPTION	LINE TYPE
EXIT	EXIT / ENTRY	
FEX	LOCATION AND TYPE OF FIRE EXTINGUISHER	
1 HR	1 HR FIRE RESISTANCE RATED CONSTRUCTION	---
M.R.P. E.A.T.	MOST REMOTE POINT & EXIT ACCESS TRAVEL DISTANCE	○ ---
ES	RAISED CHARACTER AND BRAILLE EXIT SIGN	
■	BUSINESS (100 GROSS)	

OCCUPANT LOAD SUMMARY

TOTAL BUILDING AREA:	19,620 SF / 197 OCC
EXISTING FIRST FLOOR:	12,416 SF / 125 OCC
TENANT RENOVATION AREA (NORTH):	2,908 SF / 28 OCC
BUSINESS (100 GROSS):	2,908 SF / 29 OCC
TENANT RENOVATION AREA (SOUTH):	1,128 SF / 12 OCC
BUSINESS (100 GROSS):	1,128 SF / 12 OCC
EXISTING TO REMAIN:	8,379 SF / 84 OCC
BUSINESS (100 GROSS):	8,379 SF / 84 OCC
EXISTING SECOND FLOOR AREA:	7,204 SF / 72 OCC
BUSINESS (100 GROSS):	7,204 SF / 72 OCC

- ### FIRE RATED CONSTRUCTION NOTES
- COORDINATE THE FIRE RESISTANCE RATED CONSTRUCTION REQUIREMENTS WITH THE OVERALL LIFE SAFETY PLANS AND THE ENLARGED FLOOR PLANS AS REQUIRED TO PROVIDE ALL RATED CONSTRUCTION PURSUANT TO CODE COMPLIANCE.
 - A BRIEF SUMMARY OF PLANNED FIRE-RESISTANCE RATED CONSTRUCTION IS AS FOLLOWS:
 - CORRIDOR WALLS:** EXISTING CORRIDOR WALLS OUTSIDE OF THE NORTH TENANT AREA SUITE ARE PRESUMED TO BE ONE-HOUR FIRE RESISTANCE RATED CONSTRUCTION TO REMAIN. PROTECT ALL EXISTING CORRIDOR FIRE RATINGS TO REMAIN (VIF). CORRIDORS WITHIN THE NORTH TENANT AREA SUITE ARE NON-RATED AS ALLOWED BY IBC TABLE 1018.1.
 - FIRE-BLOCKING & DRAFT STOPPING:** IN ACCORDANCE WITH IBC SECTION 718:
 - PROVIDE FIRE BLOCKING CONSISTING OF SOLID BLOCKING, PANELS, OR TIGHTLY FIT BATT INSULATION AT ALL OPEN HORIZONTAL TO VERTICAL TRANSITIONS (IBC 718.2);
 - THROUGH PENETRATION FIRE-STOPPING SYSTEMS: PROVIDE FIRE-STOPPING SYSTEMS RATED FOR RESPECTIVE ASSEMBLIES AS FOLLOWS:
 - SHAFT, HORIZONTAL DWELLING UNIT SEPARATION, AND FIRE-RATED CORRIDOR WALLS: PROTECT ALL PENETRATIONS THROUGH DWELLING UNIT DEMISING WALLS THROUGH THE USE OF FIRE CAULK, PUTTY PADS, OR OTHER CODE APPROVED METHOD
 - COORDINATE THE REQUIREMENTS FOR EACH FIRE-RATED ASSEMBLY WITH THE FIRE STOPPING MATERIAL MANUFACTURER AS REQUIRED TO PROVIDE THE MINIMUM LEVEL OF PROTECTION FOR ALL PENETRATIONS THROUGH THE RESPECTIVE ASSEMBLIES. NOT ALL CONDITIONS ARE SHOWN; USE PRODUCT MANUFACTURER'S RECOMMENDED DETAILS AS REQUIRED BY UNIQUE CONDITIONS IN THE FIELD.

- ### GENERAL LIFE SAFETY PLAN NOTES & CODE SUMMARY
- INFORMATION IS PROVIDED FOR USE BY CODE REVIEW PERSONNEL AND COORDINATION WITH ALL CONTRACTORS. ALL CONSULTANTS AND CONTRACTORS ARE RESPONSIBLE FOR COMPLYING WITH APPLICABLE CODE PROVISIONS INCLUDING, BUT NOT LIMITED TO, THOSE LISTED BELOW. NOT ALL DETAILS / CONDITIONS MAY BE SHOWN. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
 - THIS PROJECT CONSISTS OF THE RENOVATION OF AN EXISTING TENANT AREA FOR THE EXPANSION OF MEDICAL TENANT SPACE.
 - EXISTING BUILDING CONSTRUCTION CONSISTS OF TWO-STORY, COMBUSTIBLE WOOD-FRAMED WALL CONSTRUCTION WITH WOOD FRAMED FLOOR AND ROOF FRAMING ON A SLAB ON GRADE WITH BRICK VENEER AND WOOD CLADDING.
 - FIRE EXTINGUISHER LOCATIONS ARE INDICATED ON THE LIFE SAFETY PLANS. COORDINATE EXISTING FIRE EXTINGUISHERS TO BE SALVAGED AND RE-USED IN PROPOSED LOCATIONS OR AS DIRECTED BY THE LOCAL FIRE MARSHAL.
 - OCCUPANCY CLASSIFICATION:** 8 (BUSINESS) (PER IBC SECT. 303)
 - BUILDING TYPE CLASSIFICATION:** V-B
 - HEIGHT AND AREA (TABLE 503):** ALLOWABLE BLDG. HEIGHT (TABULAR): 2 STORIES (40 FEET) EXISTING HEIGHT: 2 STORIES (32 FEET +/-)

ALLOW. BLDG. AREA (PER FLOOR):	9,000 SF
AREA INCREASE (FRONTAGE):	6,750 SF (75%)
(IBC SECT. 506.2)	
AREA INCREASE (NFPA 13 SPRINKLER):	N/A (NOT SPRINKLED)
(IBC SECT. 506.3)	
ALLOWABLE AREA PER FLOOR (TABULAR + FRONTAGE + SPRINKLER = TOTAL):	15,750 SF / FLOOR
PROP. BLDG. AREA (TOTAL):	19,620 SF
FIRST FLOOR:	12,416 SF
SECOND FLOOR:	7,204 SF
 - OCCUPANCY SEPARATIONS:** THE BUILDING CONTAINS ONLY ONE OCCUPANCY CLASSIFICATION - NO OCCUPANCY SEPARATIONS ARE BEING PROPOSED.
 - FIRE-RESISTANCE RATED CONSTRUCTION:** ALL CONSTRUCTION ELEMENTS ARE ALLOWED TO BE OF ANY MATERIAL PERMITTED BY THE 2014 IBC. REFER TO THE FIRE RESISTANCE RATED CONSTRUCTION NOTES FOR ADDITIONAL DETAILS.
 - SPRINKLERS:** SPRINKLERS ARE NEITHER REQUIRED NOR PROVIDED.
 - FIRE ALARM SYSTEMS:** AUTOMATIC FIRE ALARM AND SMOKE DETECTION SYSTEMS ARE NOT REQUIRED BUT EXISTING SYSTEM IS PROVIDED. FIRE ALARM CONTRACTOR SHALL COORDINATE NEW DESIGN WITH SALVAGED OR NEW DEVICES TO WORK WITH THE EXISTING SYSTEM AS REQUIRED BY THE PROJECT CONDITIONS IN ACCORDANCE WITH IBC SECTION 907.
 - COMMON PATH OF EGRESS (CPE) TRAVEL:** EXISTING TENANT AREAS NOT IN CONTRACT HAVE NOT BEEN EVALUATED. IN RENOVATED TENANT AREAS, OCCUPANTS ALWAYS HAVE ACCESS TO AT LEAST TWO SEPARATE EXIT ACCESS PATHS - THIS COMMON PATH OF EGRESS TRAVEL IS 0' (REFER TO THE CODE SUMMARY CHART AND LIFE SAFETY PLAN).
 - EXIT ACCESS TRAVEL DISTANCE:** EXISTING TENANT AREAS NOT IN CONTRACT HAVE NOT BEEN EVALUATED. IN RENOVATED TENANT AREAS, MAXIMUM EXIT ACCESS TRAVEL DISTANCE IS 112' (REFER TO THE CODE SUMMARY CHART AND LIFE SAFETY PLAN).
 - CORRIDOR FIRE RESISTANCE RATINGS:** REFER TO THE FIRE RESISTANCE RATED CONSTRUCTION NOTES FOR ADDITIONAL DETAILS. (REFER TO THE LIFE SAFETY PLAN FOR OCCUPANT LOADS SERVED BY CORRIDORS).
 - GENERAL MEANS OF EGRESS:** NUMBER AND WIDTH OF EXITS IS EQUAL TO OR GREATER THAN THE MINIMUM REQUIRED BY IBC CHAPTER 10 (REFER TO THE CODE SUMMARY CHART AND LIFE SAFETY PLAN).
 - EMERGENCY / EGRESS LIGHTING:** REFER TO THE ELECTRICAL PLANS FOR LOCATIONS AND CONFIGURATION OF EMERGENCY EGRESS LIGHTING AND EXIT SIGNAGE.
 - THE 2010 INDIANA ENERGY AND CONSERVATION CODE (IECC) APPLIES AS THE BUILDING WAS CONSTRUCTED CIRCA 1984.
 - SIGNAGE SHALL BE INSTALLED TO EXCEED MINIMUM CODE STANDARDS AS FOLLOWS: INSTALL GRAPHIC & RAISED CHARACTER AND BRAILLE SIGNS AT EACH EXIT DOOR AND AT ALL TOILET FACILITIES. INSTALL SIGNS ON THE LATCH SIDE OF SINGLE LEAF DOORS (48" AFF TO THE BRAILLE) AND AT EITHER SIDE OF DOUBLE LEAF DOORS. INSTALL OTHER SIGNAGE AS REQUIRED BY CODE AND AS DIRECTED BY THE OWNER BASED ON FIELD CONDITIONS - REFER TO THE LIFE SAFETY PLAN.

CODE SUMMARY CHART

	ALLOWABLE / REQUIRED	PROVIDED
COMMON PATH OF EGRESS TRAVEL (IBC 1014.3)	100' MAX	N/A
EXIT ACCESS TRAVEL DISTANCE (IBC 1016.2)	200' (MAX)	112' +/-
FIRE-RESISTANT CORRIDORS (IBC 1018.1)	OCC. LOAD > 30 VARIES	VARIES (SEE PLAN)
CORRIDOR WIDTH (IBC 1018.2)	VARIES (36" (MIN.) IN TENANT AREA)	42" (MIN.) IN TENANT AREA
EGRESS WIDTH PER OCC. STAIRS	-	-
OTHER	-	-
PLUMBING FIXTURE COUNT	-	EXIST.
WATER CLOSETS & LAVS	-	TO REMAIN
DRINKING FOUNTAINS	-	-
SERVICE SINK	-	-

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CERTIFIED BY:

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REGISTERED ARCHITECT
No. 10700090
STATE OF INDIANA

RENOVATION FOR

CENTERSTONE RICHMOND

831 DILLON DRIVE
RICHMOND, IN 47374

DRAWING
LIFE SAFETY PLAN & CODE SUMMARY

ISSUE
CONSTRUCTION DOCUMENTS - 4/5/2023

REVISIONS

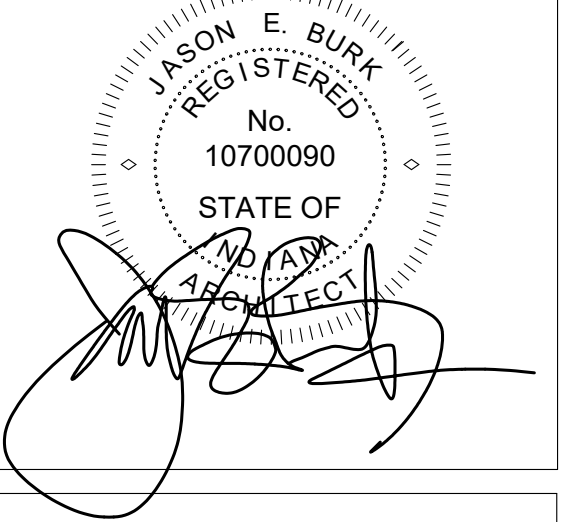
NO.	DESCRIPTION	DATE

PROJECT NUMBER 2285
DATE 4/5/2023

LS2.1

FIRST FLOOR
LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

CERTIFIED BY:



GENERAL DEMOLITION NOTES:

- THESE DRAWINGS ARE INTENDED TO OUTLINE THE GENERAL SCOPE OF THE WORK. CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING ANY WORK. CONTRACTORS SHALL ALSO BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE CODES AND GENERALLY ACCEPTED TRADE PRACTICES.
- ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD, MASONRY, OR EXISTING WALL SURFACE, UNLESS NOTED OTHERWISE.
- EACH CONTRACTOR SHALL VERIFY EXISTING CONDITIONS. CONTRACTOR SHALL REPORT ALL DISCREPANCIES OR OMISSIONS THAT OCCUR TO THE ARCHITECT.
- CONTRACTOR SHALL TAKE NECESSARY MEASURES TO PROTECT ALL EXISTING FINISHES AND CONSTRUCTION ELEMENTS SCHEDULED TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
- THE REMOVAL OF ANY AND ALL GYPSUM BOARD WILL INCLUDE THE REMOVAL OF ALL NAILS AND/OR SCREWS USED THROUGHOUT INSTALLATION.
- REFER TO THE MECHANICAL, ELECTRICAL, AND PLUMBING (MEP) DEMOLITION DRAWINGS FOR SCOPE OF WORK AND EXTENTS OF MEP DEMOLITION. COORDINATE DEMOLITION OF EXISTING UTILITIES WITH ELECTRICAL, PLUMBING, AND MECHANICAL DRAWINGS.
- UNLESS NOTED OTHERWISE, NO DEMOLITION OF OF LOAD BEARING WALL SYSTEMS IS INTENDED. IF DISCREPANCIES ARE FOUND, NOTIFY THE ARCHITECT AND OWNER IMMEDIATELY AND DO NOT PROCEED WITH ANY ADDITIONAL WORK UNTIL INSPECTION HAS OCCURRED OR APPROVAL IS GIVEN BY ARCHITECT / OWNER.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ANY BUILDING ELEMENTS THAT ARE TO REMAIN. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY AND REPAIR OR REPLACE DAMAGED ITEMS.
- ALL WORK WILL BE PERFORMED IN AN OPERATING, OCCUPIED MEDICAL CLINIC. USE NEGATIVE AIR MACHINES TO PROVIDE FOR NEGATIVE AIR PRESSURE TO ELIMINATE CONTAMINATION INTO AREAS OUTSIDE OF THE WORK AREA. USE WALK-OFF MATS OUTSIDE OF ENTRANCE POINTS TO CONSTRUCTION AREA. FIELD VERIFY AND COORDINATE PHASING AND / OR TEMPORARY BARRIERS WITH OWNER PRIOR TO COMMENCEMENT OF CONSTRUCTION.

LEGEND

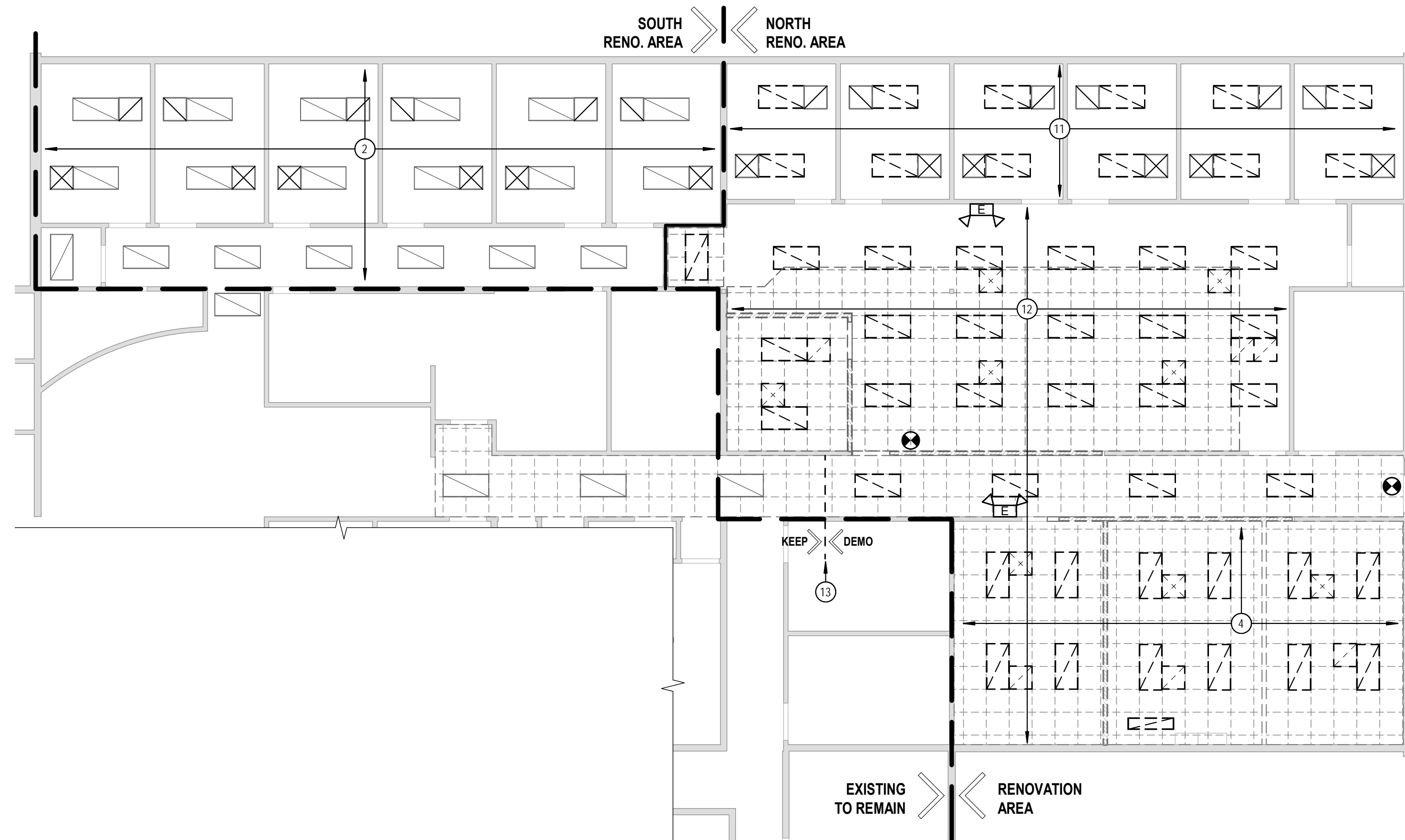
- 2 x 2 ACOUSTIC CEILING SYSTEM
- 2 x 2 ACOUSTIC CEILING TO BE DEMOLISHED
- 2 x 4 LED RECESSED FIXTURE
- 2 x 4 LED RECESSED FIXTURE TO BE DEMOLISHED
- 1 x 4 LED SURFACE-MOUNTED FIXTURE TO BE DEMOLISHED
- EXIT LIGHT
- EXIT LIGHT WITH DIRECTIONAL ARROW
- AIR SUPPLY DIFFUSER
- AIR RETURN
- EMERGENCY LIGHT

DEMO LEGEND

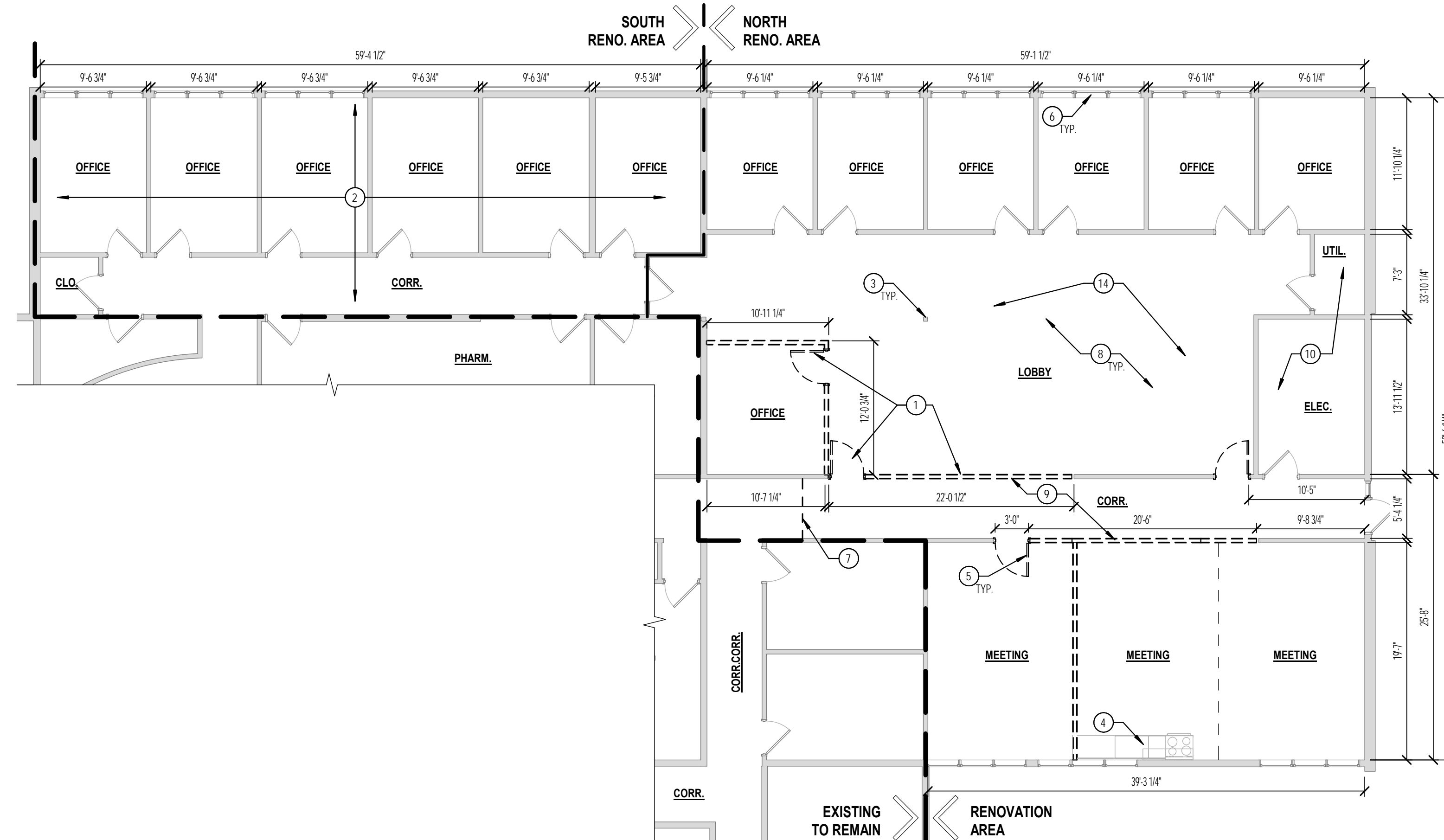
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING DOOR AND FRAME TO REMAIN
- EXISTING DOOR AND FRAME TO BE REMOVED

DEMOLITION KEYNOTES:

- DENOTES EXISTING CONSTRUCTION TO BE REMOVED (VIF)
- SOUTH TENANT AREA TO REMAIN FOR RE-USE AS-IS
- PROTECT EXISTING COLUMN TO REMAIN (VIF)
- PROTECT EXISTING CASEWORK & APPURTENANCES TO REMAIN FOR RE-USE (VIF)
- REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY AND SALVAGE AND STORE AS DIRECTED BY OWNER
- PROTECT EXISTING WINDOWS TO REMAIN
- PROVIDE DUST BARRIER IN EXISTING CORRIDOR (COORDINATE WITH OWNER REQ. FOR OCCUPIED BLDG)
- REMOVE FLOOR FINISH IN NORTH RENOVATION AREA IN ITS ENTIRETY
- CORRIDOR WALLS ARE ASSUMED TO BE LOAD BEARING. - SHORE AND BRACE FLOOR FRAMING ABOVE BEFORE REMOVING CORRIDOR WALLS (VIF) - CONTRACTOR SHALL INSPECT EXISTING FRAMING CONDITIONS AND NOTIFY ARCHITECT AND OWNER OF FINDINGS PRIOR TO REMOVAL OF SUPPORTING WALLS (VIF)
- PROTECT EXISTING MECHANICAL EQUIPMENT TO REMAIN IN ROOMS INTENDED TO BE RE-USED - COORDINATE WITH MEP DEMOLITION & PROPOSED PLANS.
- PROTECT CEILING EXISTING GRID TO REMAIN FOR REUSE. REMOVE LIGHT FIXTURE AND APPURTENANCES (SEE MEP DEMO PLANS)
- REMOVE EXISTING GRID, PADS, FIXTURES, AND APPURTENANCES IN THEIR ENTIRETY (SEE MEP DEMO PLANS)
- COORDINATE EXTENT OF REMOVAL OF GRID AND / OR APPURTENANCES WITH PROPOSED PLANS
- REMOVE AND SALVAGE EXISTING FURNITURE SYSTEMS AS DIRECTED BY THE OWNER



2 PARTIAL FIRST FLOOR REF. CLG. DEMOLITION
SCALE: 1/8" = 1'-0"



1 PARTIAL FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

RENOVATION FOR

CENTERSTONE RICHMOND

831 DILLON DRIVE
RICHMOND, IN 47374

DRAWING
DEMOLITION PLANS

ISSUE
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REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 2285
DATE 4/5/2023

D2.1

FLOOR PLAN KEYNOTES:

- 1 SOUTH RENOVATION AREA FINISHES, FIXTURES AND EQUIPMENT TO REMAIN AS-IS UNLESS NOTED OTHERWISE (VIF)
- 2 NEW MEDICAL EXAM ROOM CASEWORK (BASE AND WALL CABINETS), COUNTERS, PLUMBING AND ELECTRICAL - COORDINATE WITH MEP DRAWINGS AND OWNER'S CASEWORK VENDOR AS REQUIRED
- 3 NEW TRANSACTION WALL ASSEMBLY WITH HDL TRANSACTION COUNTERTOP AND SLIDING TRANSACTION WINDOWS (SEE ELEVATION)
- 4 NEW PLUMBING FIXTURES (SEE PLUMBING DWGS)
- 5 NEW MEDICAL LAB CASEWORK (BASE AND WALL CABINETS) WITH HDL COUNTERTOP - COORDINATE WITH MEP DRAWINGS AND OWNER'S CASEWORK VENDOR AS REQUIRED
- 6 NEW WALL CONSTRUCTION (W1) TYPICAL EXCEPT AT PLUMBING WALLS - USE 2 X 6
- 7 PROVIDE FULL HEIGHT CONCEALED 2X BLOCKING FOR TECHNOLOGY EQUIPMENT (COORDINATE WITH OWNER & VENDOR AS REQUIRED)
- 8 BEARING CONDITION FOR SECOND FLOOR FRAMING IS UNKNOWN - UNTIL INVESTIGATIVE DEMOLITION CAN OCCUR PLAN TO PROVIDE FULL LENGTH LVL HEADER (2 - 11 25 x 1.75 2,950 Fb 2.0e) SUPPORTED BY THREE (3) 2 X 4 JACK STUDS AND (2) KING STUDS AT EA. END FOR EACH OPENING ALONG BOTH CORRIDOR WALLS. INCLUDE AS ALTERNATE BID PRICE FOR EASE OF ADJUSTMENT AFTER INVESTIGATION IS COMPLETE
- 9 REMOVE DOOR FROM EXISTING OPENING, COVER HINGE CUT-OUTS AND CONVERT TO CASED OPENING (MATCH EXISTING FINISH)
- 10 ALIGN WALLS WITH EXISTING COLUMN TO CONCEAL IN WALL CONSTRUCTION
- 11 RATED WALL CONSTRUCTION: CORRIDOR WALL CONSTRUCTION TO MAINTAIN 1-HOUR RATED ENCLOSURE - PROVIDE FLOOR TO CEILING 2X OR METAL STUD FRAMING WITH ONE-LAYER 5/8" TYPE X GYP. BRD. ON BOTH SIDES (PAINTED)
- 12 CHARTING COUNTER: 1'-6" DEEP HDL COUNTERTOP (42" A.F.F.) WITH SELF EDGE ATTACHED TO WALL WITH HEAVY DUTY BRACKETS AT 42" O.C. MAX. (CONFIRM FINAL CONFIGURATION WITH OWNER)
- 13 WORKSTATION COUNTERTOP: 30" DEEP HDL COUNTER AT 32" A.F.F. WITH SELF EDGE - PROVIDE HEAVY DUTY PRE-FINISHED WALL BRACKETS AT 48" O.C. WITH KNEE SPACE

DOOR, FRAME & HARDWARE KEYNOTES:

- A MAIN CLINIC ENTRANCE: 3'-0" X 7'-0" X 1 3/4" SOLID CORE FLUSH WOOD DOOR AND STEEL FRAME (PRE-FINISHED) WITH WITH 12" BORROWED LITE. PROVIDE BALL BEARING BUTT HINGES, PULL SIDE MOUNTED CLOSER, WALL STOP, KICK PLATE, MOP PLATE, AND ENTRANCE LOCKSET (MATCH EXISTING FINISH OF ADJACENT HARDWARE) (QTY: 1)
- B TOILET ROOM: 3'-0" X 7'-0" X 1 3/4" SOLID CORE FLUSH WOOD DOOR AND STEEL FRAME (PRE-FINISHED). PROVIDE BALL BEARING BUTT HINGES, CLOSER, WALL STOP, KICK PLATE, MOP PLATE, AND PRIVACY LOCKSET WITH PRIVACY INDICATOR (MATCH EXISTING FINISH) (QTY: 1)
- C OFFICE: 3'-0" X 7'-0" X 1 3/4" SOLID CORE FLUSH WOOD DOOR WITH VISION GLAZING AND STEEL FRAME (PRE-FINISHED). PROVIDE BALL BEARING BUTT HINGES, CLOSER, WALL STOP, SOUND GASKETING, AND OFFICE LOCKSET (MATCH EXISTING FINISH) (QTY: 9)
- D PATIENT ENTRY: 3'-0" X 7'-0" X 1 3/4" SOLID CORE FLUSH WOOD DOOR WITH VISION GLAZING AND STEEL FRAME (PRE-FINISHED). PROVIDE BALL BEARING BUTT HINGES, CLOSER, WALL STOP, KICK PLATE, MOP PLATE, AND ENTRANCE LOCKSET (MATCH EXISTING FINISH) (QTY: 1)
- E LAB: 3'-0" X 7'-0" X 1 3/4" SOLID CORE FLUSH WOOD DUTCH DOOR AND STEEL FRAME (PRE-FINISHED). PROVIDE BALL BEARING BUTT HINGES (4), WALL BUMPER, WALL STOP AND HOLDER, DUTCH DOOR BOLT, AND CLASSROOM LOCKSET (MATCH EXISTING FINISH) (QTY: 1)
- F EXAM: EXISTING DOOR AND FRAME - REPLACE LOCKSET WITH PRIVACY FUNCTION (MATCH EXISTING FINISH OF ADJACENT HARDWARE) (QTY: 3)
- G OFFICE: EXISTING DOOR AND FRAME - REPLACE LOCKSET WITH OFFICE FUNCTION IF REQUIRED BY FIELD CONDITIONS (MATCH EXISTING FINISH OF ADJACENT HARDWARE) (QTY: 2)
- H STORAGE: EXISTING DOOR AND FRAME - REPLACE LOCKSET WITH STORAGE FUNCTION (MATCH EXISTING FINISH OF ADJACENT HARDWARE) (QTY: 1)
- I TENANT EXIT: 3'-0" X 7'-0" X 1 3/4" SOLID CORE FLUSH WOOD DOOR AND STEEL FRAME (PRE-FINISHED). PROVIDE BALL BEARING BUTT HINGES, CLOSER, WALL STOP, KICK PLATE, MOP PLATE, AND ENTRANCE LOCKSET (MATCH EXISTING FINISH) (QTY: 1)
- EX EXISTING DOOR & FRAME: EXISTING 3'-0" X 7'-0" X 1 3/4" SOLID CORE FLUSH WOOD DOOR AND STEEL FRAME TO REMAIN (VIF) (QTY: VARIES)

D, F & GEN. NOTES:

1. ACCESSIBLE DOORS SHALL HAVE THRESHOLDS WHICH DO NOT EXCEED 1/4" IN HEIGHT (3/4" FOR EXISTING IF BEVELED) WITHOUT CHANGES IN FLOOR LEVEL GREATER THAN 1/4" INCH.
2. COORDINATE LOCKSET FUNCTION WITH ROOM DESIGNATION AS REQUIRED BY PLANS.

WALL TYPES

W1 25 GA. 3 5/8" METAL STUDS OR WOOD 2 X 4 @ 16" O.C. WITH BATT INSULATION AND 5/8" GYP. BOARD BOTH SIDES TO DECK ABOVE

WALL TYPE NOTES:

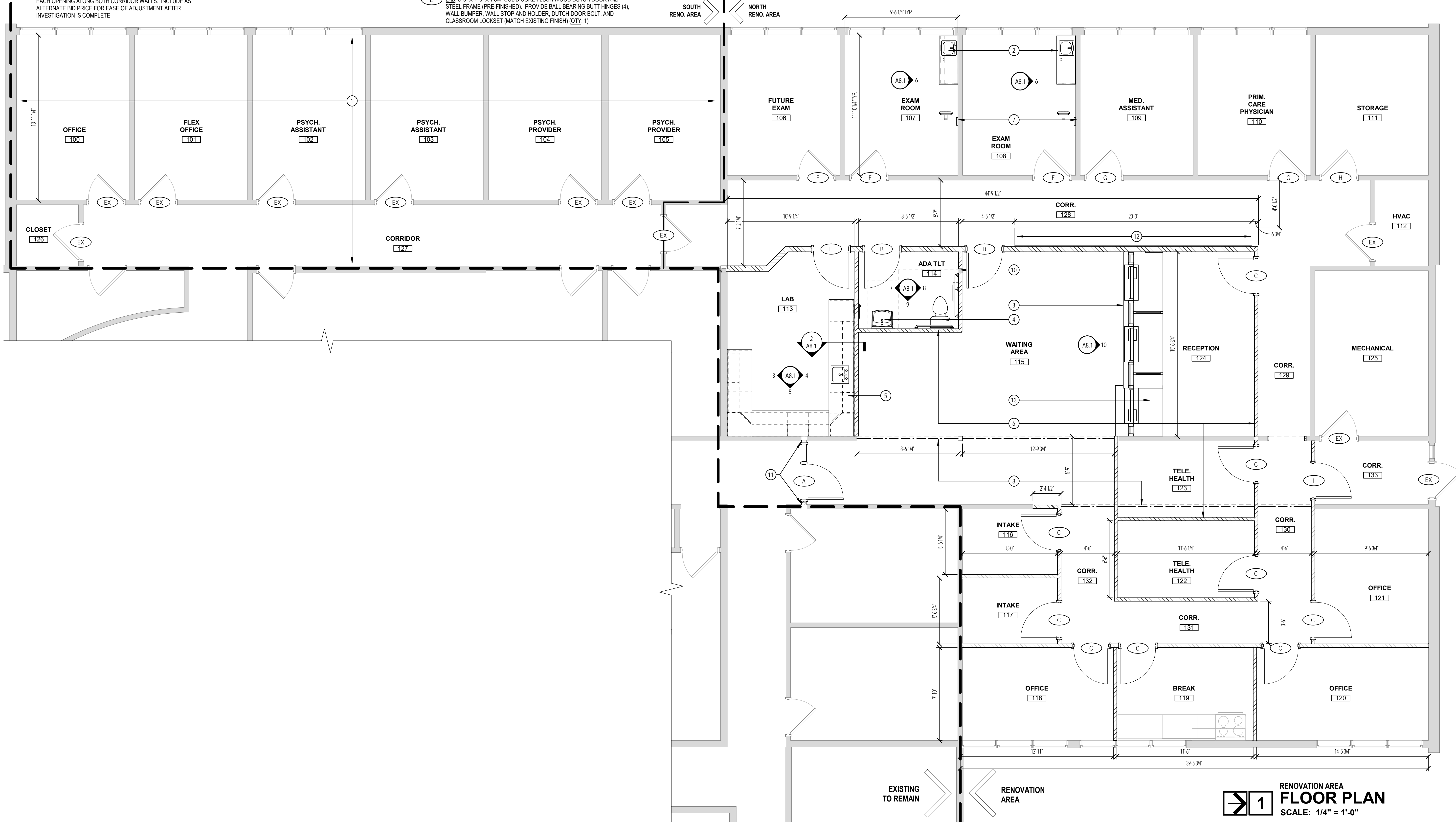
1. COORDINATE WITH THE WALL FINISH PLANS AND PROVIDE APPROPRIATE BACKER BOARD FOR ALL WALL TYPES WHERE CERAMIC TILE IS SHOWN AS THE WALL FINISH.
2. FIELD VERIFY ALL CONDITIONS WHERE GYP. BRD. IS ATTACHED TO ONE SIDE OF METAL STUD TO FIT FINISHED WALL AND CEILING CONDITIONS AS INDICATED ON THE PLAN.
3. FIELD VERIFY ALL CONDITIONS WHERE WALLS ARE BEING INFILLED WITH WALL PARTITION FRAMING INTENDED TO MATCH EXISTING. PROVIDE FLUSH CONDITION ON BOTH FINISHED WALL SURFACES.
4. INSULATE ALL WALLS WITH SOUND BATT TO FILL STUD CAVITY EXCEPT IN UNOCCUPIED AREAS.
5. BRACE WALLS TO DECK OR TO B/JOISTS AS REQUIRED BY FIELD CONDITIONS AND BY MANUFACTURER'S RECOMMENDATIONS.
6. USE MOISTURE RESISTANT GYP. BRD. IN RESTROOMS, KITCHEN, AND ALL WET AREAS.

WALL LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- NEW INTERIOR PARTITION (SEE WALL TYPES)
- NEW DOOR AND FRAME
- EXISTING DOOR AND FRAME TO REMAIN

GENERAL PLAN NOTES:

1. THESE DRAWINGS ARE INTENDED TO OUTLINE THE GENERAL SCOPE OF THE WORK. CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING ANY WORK. CONTRACTORS SHALL ALSO BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE CODES AND GENERALLY ACCEPTED TRADE PRACTICES.
2. ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD, MASONRY, OR EXISTING WALL SURFACE, UNLESS NOTED OTHERWISE.
3. ALL DOOR FRAME OPENINGS SHALL BE 6" FROM ADJACENT WALLS UNLESS NOTED OTHERWISE.
4. PROVIDE NECESSARY BLOCKING, CONCEALED WITHIN THE CONSTRUCTION, AS REQUIRED FOR ANY AND ALL ITEMS THAT MUST BE SECURED TO THE WALL. VERIFY LOCATIONS WITH OWNER.
5. REFER TO DOOR FRAME AND HARDWARE KEYNOTES FOR SIZE, TYPE, AND FINISH OF ALL DOORS, FRAMES, AND WINDOWS.
6. REFER TO PLUMBING PLANS FOR ALL PLUMBING FIXTURE LOCATIONS, SPECIFICATIONS, AND FIXTURE COUNTS. THE ARCHITECTURAL FLOOR PLANS ARE FOR DESIGN INTENT ONLY.
7. REFER TO INTERIOR FINISH PLANS ON SHEET A8.1 FOR ALL FINISH RELATED INFO.

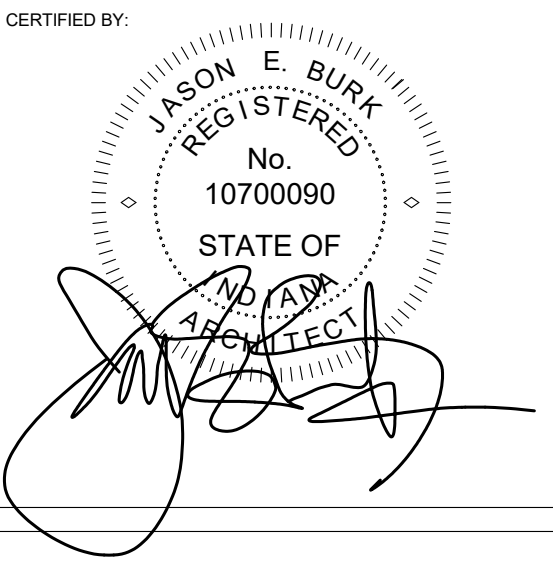


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RENOVATION FOR

CENTERSTONE RICHMOND

831 DILLON DRIVE
RICHMOND, IN 47374

DRAWING
FIRST FLOOR PLAN

ISSUE
CONSTRUCTION DOCUMENTS - 4/5/2023

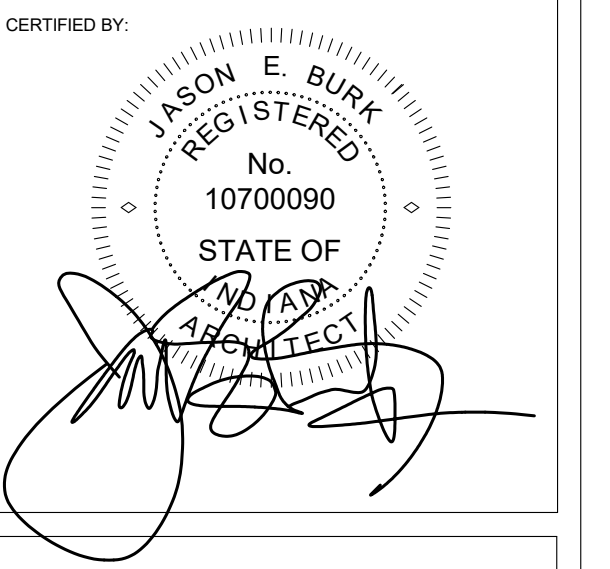
REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 2285
DATE 4/5/2023

A2.1

RENOVATION AREA
FLOOR PLAN
SCALE: 1/4" = 1'-0"



RENOVATION FOR

CENTERSTONE RICHMOND

831 DILLON DRIVE
RICHMOND, IN 47374

DRAWING
REFLECTED CEILING PLAN

ISSUE
CONSTRUCTION DOCUMENTS - 4/5/2023

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 2285
DATE 4/5/2023

A3.1

REF. CLG. PLAN KEYNOTES:

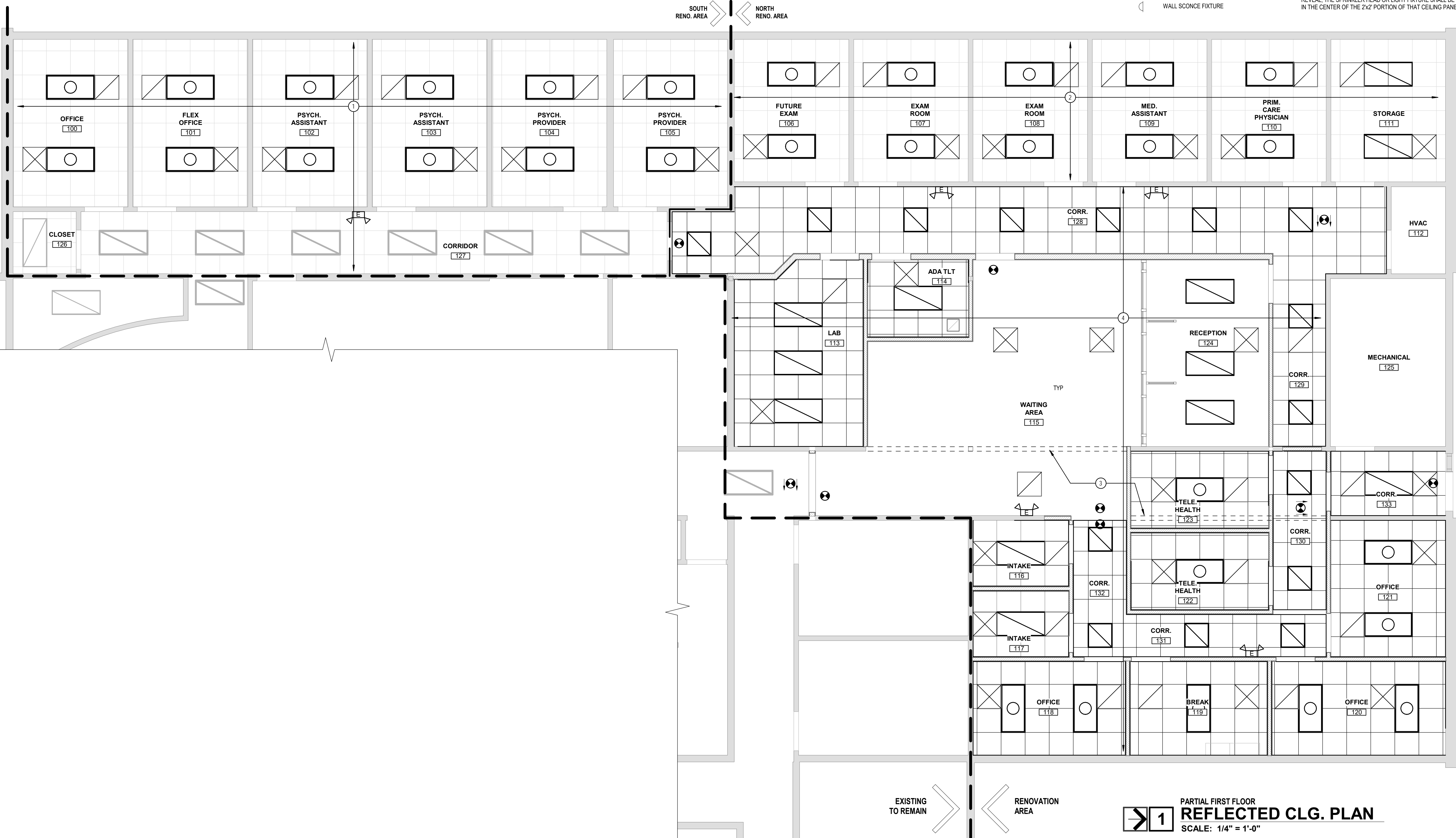
- 1 SOUTH RENOVATION AREA FINISHES, FIXTURES AND EQUIPMENT TO REMAIN AS-IS UNLESS NOTED OTHERWISE (VIF)
- 2 PROTECT GRID IN NORTH RENOVATION AREA OFFICES AND REPLACE PADS, FIXTURES, AND EQUIPMENT AS SHOWN ON THE MEP PLANS
- 3 PLAN FOR GYPSUM BOARD WRAP AROUND STRUCTURE ADDED AS A RESULT OF REMOVING BEARING WALLS (VIF)
- 4 PROVIDE NEW 2 X 2 LAY-IN GRID AND PADS TO MATCH EXISTING STYLE AND FINISH THROUGHOUT NEW WORK AREA (VIF)

LEGEND

- 10'-0" ELEVATION MARK
- 2 x 2 ACOUSTIC CEILING SYSTEM
- 2 x 4 LED RECESSED FIXTURE
- 2 x 4 LED RECESSED FIXTURE (NIGHT LIGHT)
- RECESSED INCANDESCENT LIGHT
- PENDANT MOUNTED METAL HALIDE LOW-BAY FIXTURE
- SURFACE MOUNTED INCANDESCENT FIXTURE
- OUTDOOR WALL MOUNTED LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT
- EXIT LIGHT
- EXIT LIGHT WITH DIRECTIONAL ARROW
- EXHAUST FAN/LIGHT COMBINATION FIXTURE
- EMERGENCY LIGHT
- WALL SCONCE FIXTURE

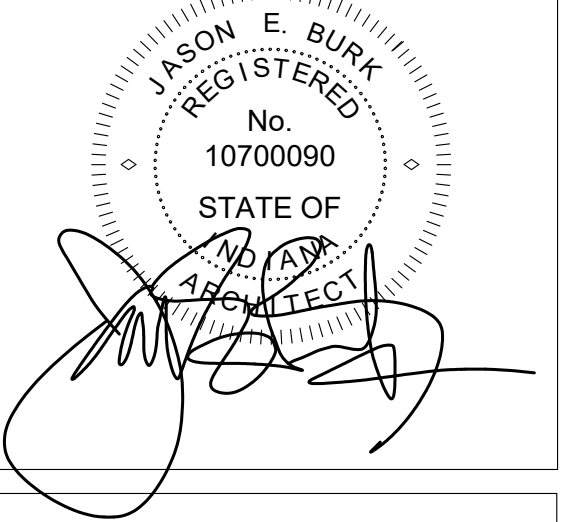
GENERAL RCP NOTES

1. THESE DRAWINGS ARE INTENDED TO OUTLINE THE GENERAL SCOPE OF THE WORK. CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING ANY WORK. CONTRACTORS SHALL ALSO BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE CODES AND GENERALLY ACCEPTED TRADE PRACTICES.
2. EACH CONTRACTOR SHALL VERIFY EXISTING CONDITIONS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES OR OMISSIONS TO THE ARCHITECT.
3. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE REFLECTED CEILING PLANS AND THE ELECTRICAL DRAWINGS.
4. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR FIRE ALARM AND EMERGENCY LIGHTING COMPONENTS.
5. REFER TO ELECTRIC LIGHTING PLANS FOR FIXTURE QUANTITIES, MANUFACTURERS AND MODEL NUMBERS. THE REFLECTED CEILING PLAN IS FOR FIXTURE ORIENTATIONS, LOCATIONS AND CEILING GRID LAYOUT. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IF THE REFLECTED CEILING PLANS DIFFERS FROM THE ELECTRICAL LIGHTING PLANS.
6. RECESSED CAN LIGHTS ARE TO BE LOCATED IN THE CENTER OF THE AFFECTED CEILING PANEL. WHERE THE CEILING PANEL HAS A CENTER REVEAL, THE SPRINKLER HEAD OR LIGHT FIXTURE SHALL BE LOCATED IN THE CENTER OF THE 2x2 PORTION OF THAT CEILING PANEL.



PARTIAL FIRST FLOOR
REFLECTED CLG. PLAN
SCALE: 1/4" = 1'-0"

CERTIFIED BY:



RENOVATION FOR

CENTERSTONE RICHMOND

831 DILLON DRIVE
RICHMOND, IN 47374

DRAWING
ENLARGED PLANS

ISSUE
CONSTRUCTION DOCUMENTS - 4/5/2023

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 2285
DATE 4/5/2023

A8.1

GENERAL INTERIOR FINISH NOTES:

- FINISHES DEPICTED ON THESE PLANS INCLUDE WALL, BASE, AND FLOORING MATERIALS. REFER TO ELEVATIONS, CASEWORK DETAILS, REFLECTED CEILING PLAN, AND DOOR SCHEDULE FOR OTHER FINISH NOTES AND LOCATIONS.
- PAINT ALL EXPOSED EXISTING AND NEW INTERIOR GYPSUM BOARD SURFACES (WALLS, BULKHEADS, CEILINGS, ETC.) WHERE INDICATED ON THE WALL AND CEILING FINISH PLANS.
 - A. PAINT FINISH TO BE NOTED AS BELOW:
WALLS - SATIN
CEILINGS - FLAT
BULKHEADS - FLAT METAL TRIM - SEMI-GLOSS
 - B. PAINT COLORS TO BE NOTED AS BELOW:
PT-1: COMMON AREA
PT-2: CEILING WHITE
PT-3: WAITING ROOM ACCENT (ONE WALL TBD)
PT-4: OFFICE ACCENT #1 (ONE WALL TBD)
PT-5: OFFICE ACCENT #2 (ONE WALL TBD)
PT-6: MECHANICAL / STORAGE
PT-7: TOILET ROOM (EPOXY)
- PAINT ALL EXISTING AND NEW INTERIOR AND EXTERIOR EXPOSED-TO-VIEW STEEL COMPONENTS. COORDINATE ACCENT WALLS PER THE PAINT SCHEDULE ABOVE WITH OWNER PRIOR TO INSTALLATION OF PAINTED SURFACES.
- THE CONTRACTOR AND SUBCONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD AND NOTIFY THE DESIGNER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH ANY WORK. NO CHANGES SHALL BE MADE TO ANY PLAN WITHOUT PRIOR COMMENT OF THE ARCHITECT.
- FLOORING CONTRACTOR TO INSTALL FLOORING MATERIALS AS INDICATED ON PLAN BOTH IN PATTERN AND DIRECTION. ANY TRANSITIONS THAT OCCUR AT A DOORWAY MUST OCCUR AT THE CENTERLINE OF CLOSED DOOR.
- ALL CARPET TILE TO BE 100% SOLUTION DYED YARN WITH INTEGRAL ANTI-MICROBIAL PRESERVATIVE, GUARANTEED NOT TO MOLD OR INHIBIT BACTERIAL GROWTH WITH PROPER MAINTENANCE. CARPET TILE MUST ALSO BE TREATED WITH SOIL/ANTI-STAIN PROTECTION TO ASSURE CLIENT OF LONGER LIFE AND HAVE 20 YEAR WEAR WARRANTY. ALTERNATE MANUFACTURERS BEING BID MUST BE PRE-APPROVED BY ARCHITECT FOR COLOR AND STYLE MATCH PRIOR TO BID SUBMISSION.
- VINYL TRANSITIONS STRIPS TO BE INSTALLED AT EACH FLOORING MATERIAL CHANGE / TRANSITION WHERE CARPET TRANSITIONS TO VINYL TILE OR CONCRETE. FLOORING CONTRACTOR TO PROVIDE TRANSITION STRIP SAMPLES TO DESIGNER FOR COLOR SELECTION.
- BRUSHED ALUMINUM SCHLUTER STRIPS ARE TO BE INSTALLED WHERE ALL HARD SURFACE TILE TRANSITIONS TO CARPET OR AS NOTED TO PROTECT TILE EDGE FROM DAMAGE. USE LEVELING COMPOUND AS REQUIRED FOR CARPET AND TILE TO HAVE THE SAME FINISHED ELEVATION.
- ALL TILE PATTERNS ARE TO BE INSTALLED TO HAVE THE LEAST AMOUNT OF CUT TILES POSSIBLE.
- ALL EXPOSED EDGES OF MATERIALS TO MATCH FACE.
- COLOR SELECTION FOR ALL CORNERGUARDS & PROTECTIVE WALL MATERIALS TO BE PROVIDED IN SUBMITTALS. PLAN FOR MULTIPLE COLORS.
- CONTRACTOR AND MILLWORKER ARE TO SUBMIT SAMPLES OF ALL FINISH MATERIALS TO THE DESIGNER FOR REVIEW AND VERIFICATION PRIOR TO PLACING ORDER. THIS INCLUDES BUT IS NOT LIMITED TO PAINT STRIKE-OFFS, CARPET AND TILE SUBMITTALS, VINYL BASE, SOLID SURFACE, PLASTIC LAMINATE, CUSTOM MILLWORK SHOP DRAWINGS, TRANSITION STRIPS, ETC.
- FLOORING CONTRACTOR IS REQUIRED TO MEET WITH ARCHITECT PRIOR TO INSTALLATION TO REVIEW FLOOR FINISH PLAN, CARPET AND TILE LAYOUTS, SEAMING, TRANSITIONS, ETC.
- EXPOSED FINISHED WOOD TO BE STAINED SHALL BE PRE-FINISHED. FOR EXPOSED FINISHED WOOD TO BE PAINTED, REFER TO THE FINISH PLANS. COORDINATE WORK WITH REQUIREMENTS OF SPECIFICATION SECTION 06 2000 AND 09 9000.
- COORDINATE FINISH LEGEND ON THIS SHEET WITH FINISH SPECIFICATIONS AS NOTED ON THE ROOM FINISH SCHEDULE.
- OBTAIN OWNER / ARCHITECT APPROVAL OF ALL FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL. BASIS OF DESIGN PRODUCTS ARE NOTED ON THE FINISH PLANS.

GENERAL FINISH SCOPE NOTES:

- PROVIDE FLOOR LEVELING AND ANY REQUIRED PREPARATION FOR THE PROPOSED FINISH FLOOR MATERIALS, AS REQUIRED FOR NEW FLOORING INSTALLATION.
- CEILING FINISH SCOPE: THE REF. CLG. PLAN INDICATES ARCHITECTURAL FEATURES OF THE CEILINGS AS THEY RELATE TO FINISHES, MATERIALS AND CONFIGURATIONS. COORDINATE AND VERIFY THE EXACT LOCATION OF MECHANICAL AND ELECTRICAL COMPONENTS WITH THE LIGHTING AND POWER DRAWINGS. FIELD VERIFY ALL CEILING HEIGHTS AND FINISH DIMENSIONS.
- WALL FINISHES SCOPE: PROVIDE PAINTED GYPSUM WALL BOARD WITH LEVEL 4 FINISH ON ALL WALLS UNLESS NOTED OTHERWISE. FINISH TRANSITIONS BETWEEN DISSIMILAR MATERIALS WITH ZIP STRIP OR EQUAL FINISH DRYWALL BEAD. FOR AREAS IN UTILITY ROOMS ADJACENT TO TOILET OR PLUMBING FIXTURES, PROVIDE FRP ON WALLS MIN. 24" HORIZONTAL AND TO 60" A.F.F. (TYP - UNO). IN TOILET ROOMS, PROVIDE EPOXY PAINT ON ALL WALLS.
- FLOOR FINISH SCOPE: PROVIDE FLOOR MATERIALS AS SHOWN ON THE FINISH PLAN - FINAL PRODUCT TO BE SELECTED BY OWNER. MATERIALS TO BE COMMERCIAL GRADE LUXURY VINYL TILE AND CARPET TILE THROUGHOUT ALL BUSINESS AREAS UNLESS NOTED OTHERWISE. PROVIDE 6" VINYL BASE THROUGHOUT U.N.O.
- ALL INTERIOR FINISH MATERIALS SHALL COMPLY WITH NBC TABLE 803.9 FOR SMOKE DEVELOPED AND FLAME SPREAD.
- ALL INTERIOR FINISHES SHALL BE AS SELECTED BY OWNER - OBTAIN OWNER APPROVAL PRIOR TO ORDERING.
- PROVIDE SIGNAGE AS REQUIRED BY CODE: 1 - GRAPHIC ADA COMPLIANT TOILET ROOM SIGN 2 - GRAPHIC ADA EGRESS SIGN, 1 - MAXIMUM OCCUPANT CAPACITY SIGN - ALL OTHER SIGNAGE BY OWNER

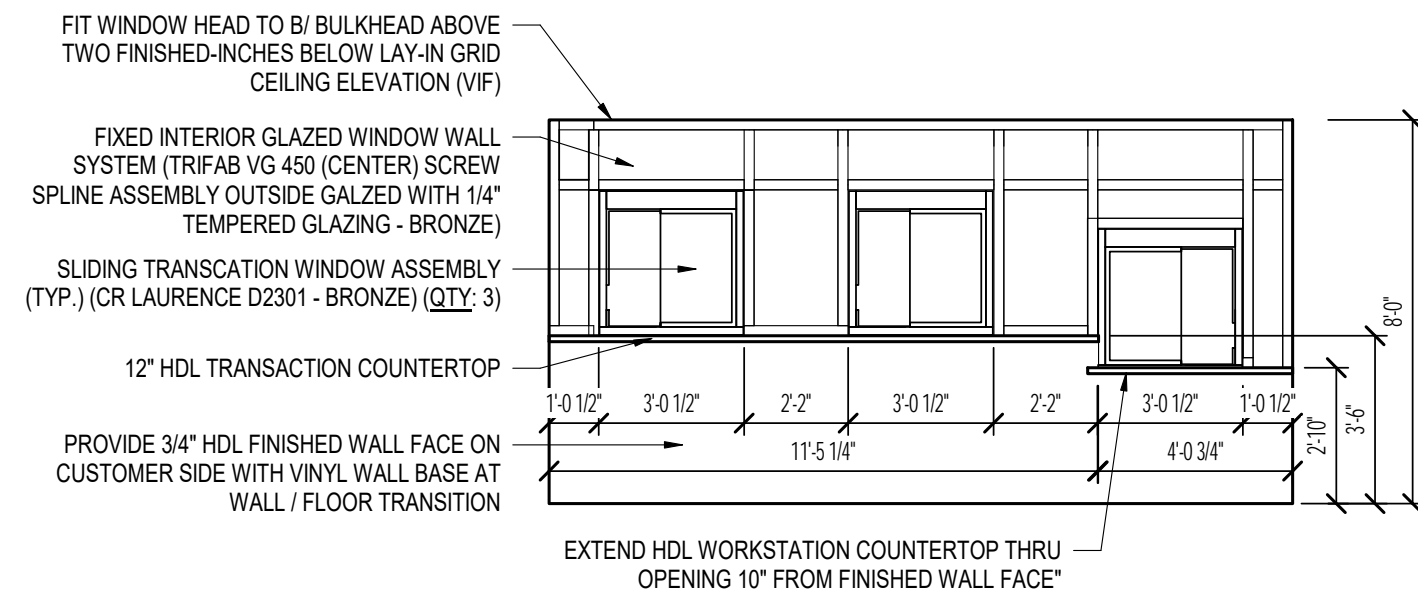
FINISH & PATTERN LEGEND:

- CPT1 CARPET TILE FOR USE IN COMMON SPACES AND OFFICES (TYPICAL)
- LVT1 VINYL PLANK FLOORING FOR USE IN CORRIDORS AND EXAM AND TOILET ROOMS (TYPICAL)
- PT-X PAINT FINISH

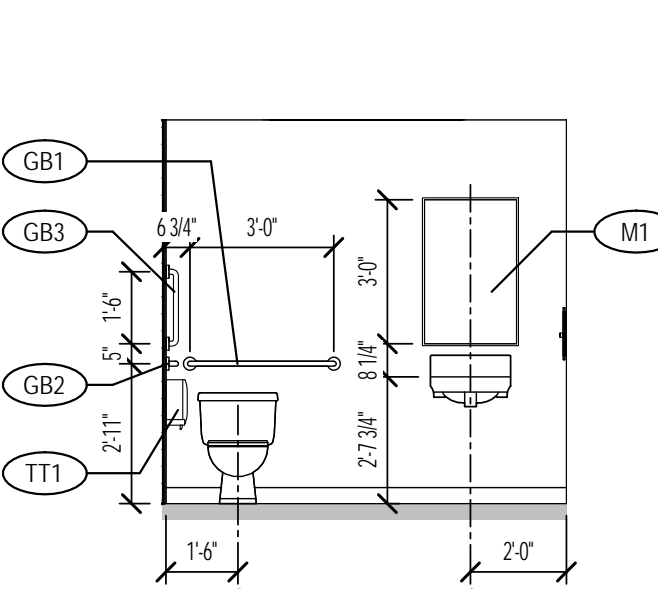
FINISH PLAN KEYNOTES:

- SOUTH RENOVATION AREA FINISHES, FIXTURES AND EQUIPMENT TO REMAIN AS-IS UNLESS NOTED OTHERWISE (VIF)

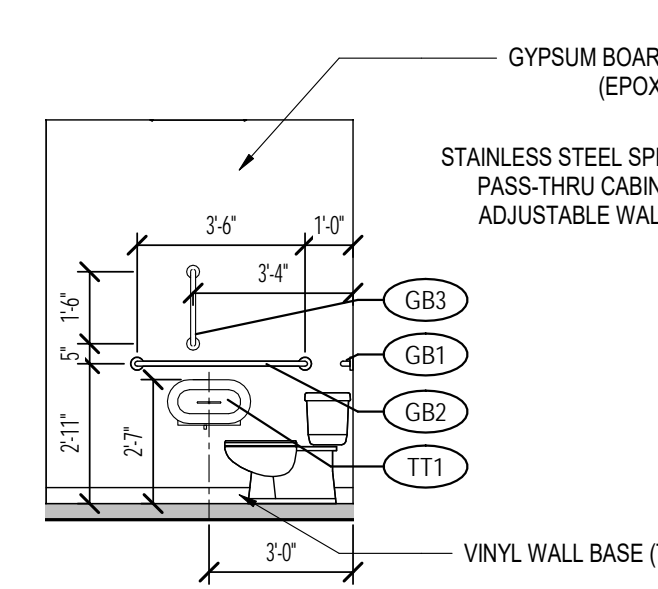
MARK	SYMBOL	DESCRIPTION	REMARKS	MOUNTING HT.
GB1		GRAB BAR - HORIZONTAL	36"	34" CL
GB2		GRAB BAR - HORIZONTAL	42"	34" CL
GB3		GRAB BAR - VERTICAL	18"	40" BOTTOM
TT1		TOILET TISSUE DISP. - PARTITION MTD. DUAL COMP.	MULTI-ROLL	28" TOP
SC1		SEAT COVER DISP. - SURFACE MOUNTED	250 SHEET CAPACITY	44" SLOT
ND1		NAPKIN DISPOSAL - PART. MTD. - DUAL COMPART.	12 GALLON CAPACITY	28" TOP
M1		MIRROR	24" x 36"	40" BOTTOM
SD1		SOAP DISPENSER - WALL MOUNTED	40 OZ.	39" TOP
TD1		TOWEL DISP. & WASTE RECEPTACLE - SEMI-RECESSED	600 C-FOLD 800 M.F. 12 GALLON CAPACITY	66" TOP



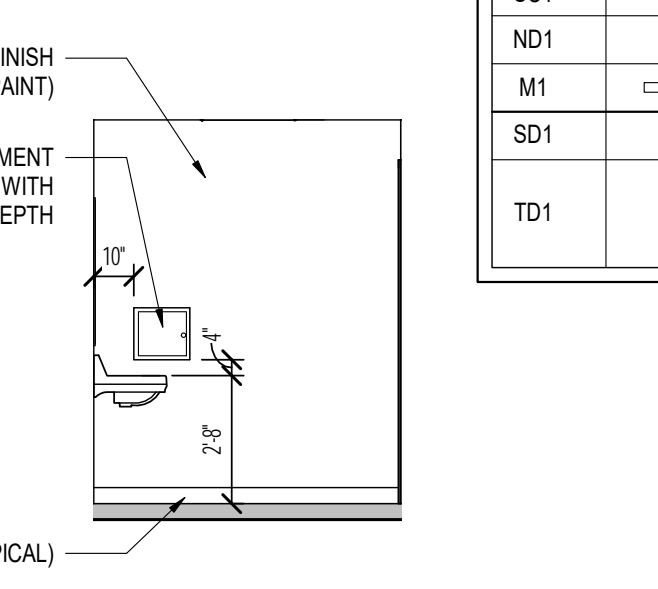
10 TRANSACTION COUNTER ELEVATION
SCALE: 1/4" = 1'-0"



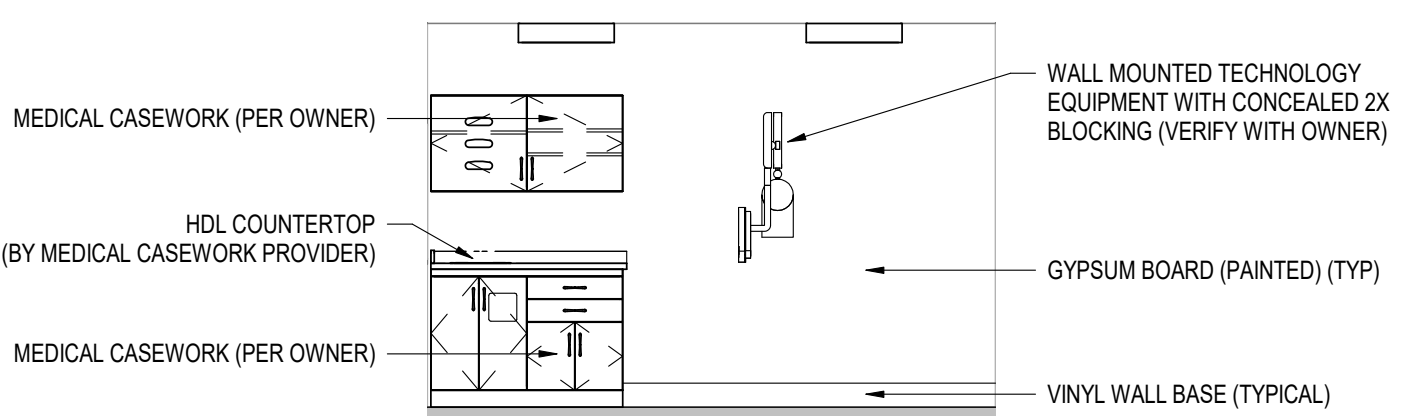
9 TOILET - W ELEVATION
SCALE: 1/4" = 1'-0"



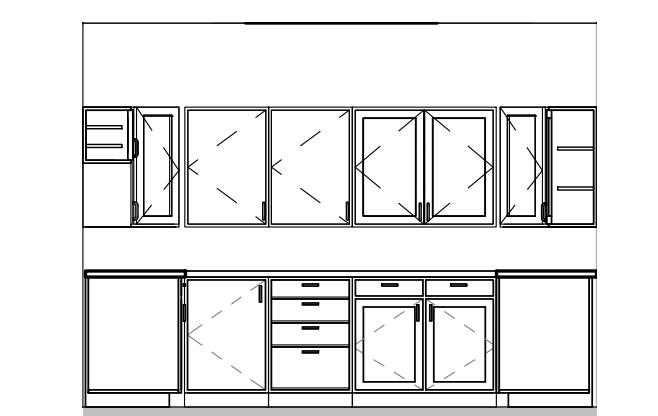
8 TOILET - S ELEVATION
SCALE: 1/4" = 1'-0"



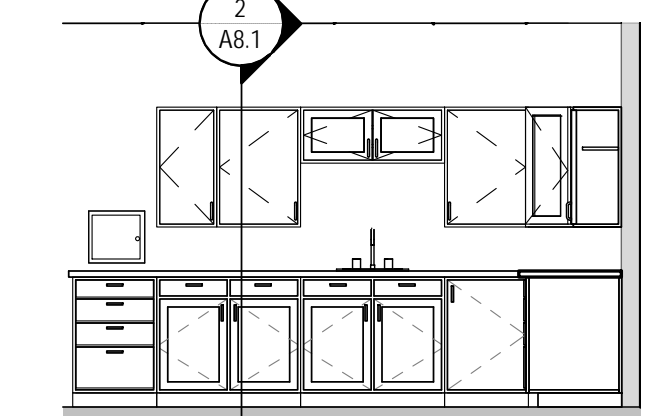
7 TOILET - N ELEVATION
SCALE: 1/4" = 1'-0"



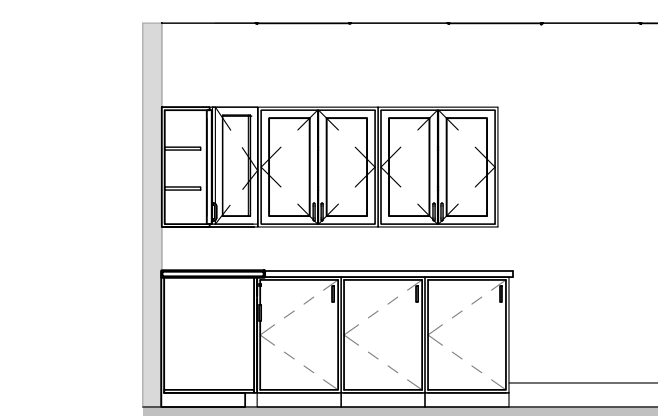
6 EXAM ROOM - S ELEVATION
SCALE: 1/4" = 1'-0"



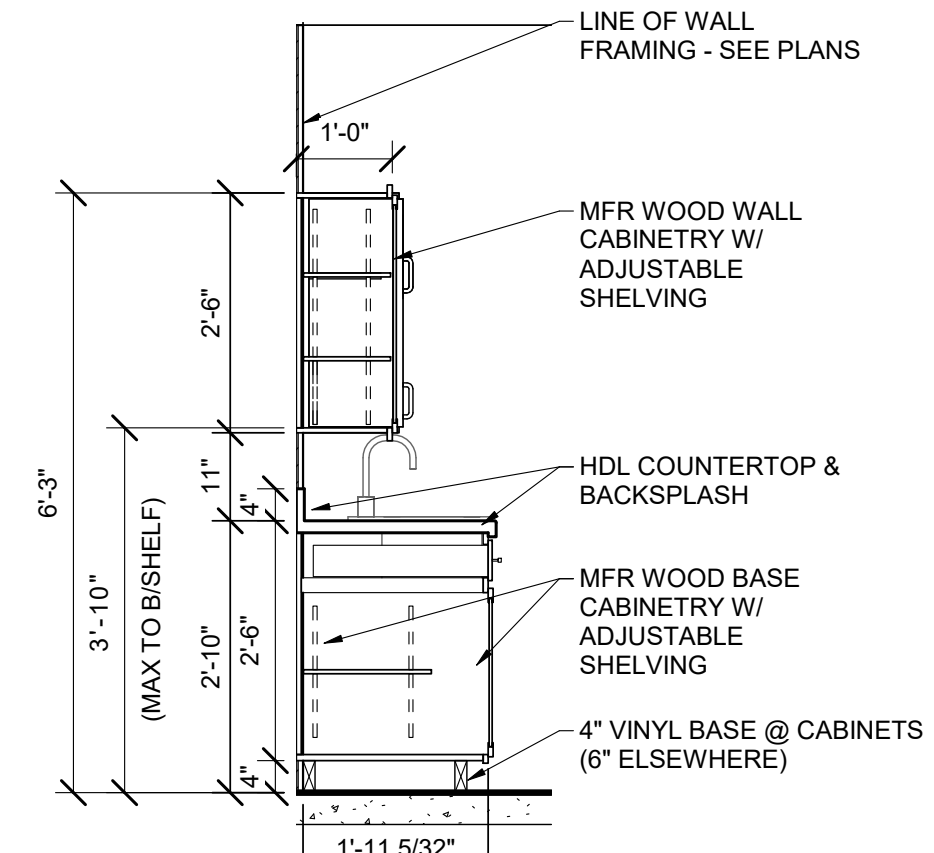
5 LAB CASEWORK - W ELEVATION
SCALE: 1/4" = 1'-0"



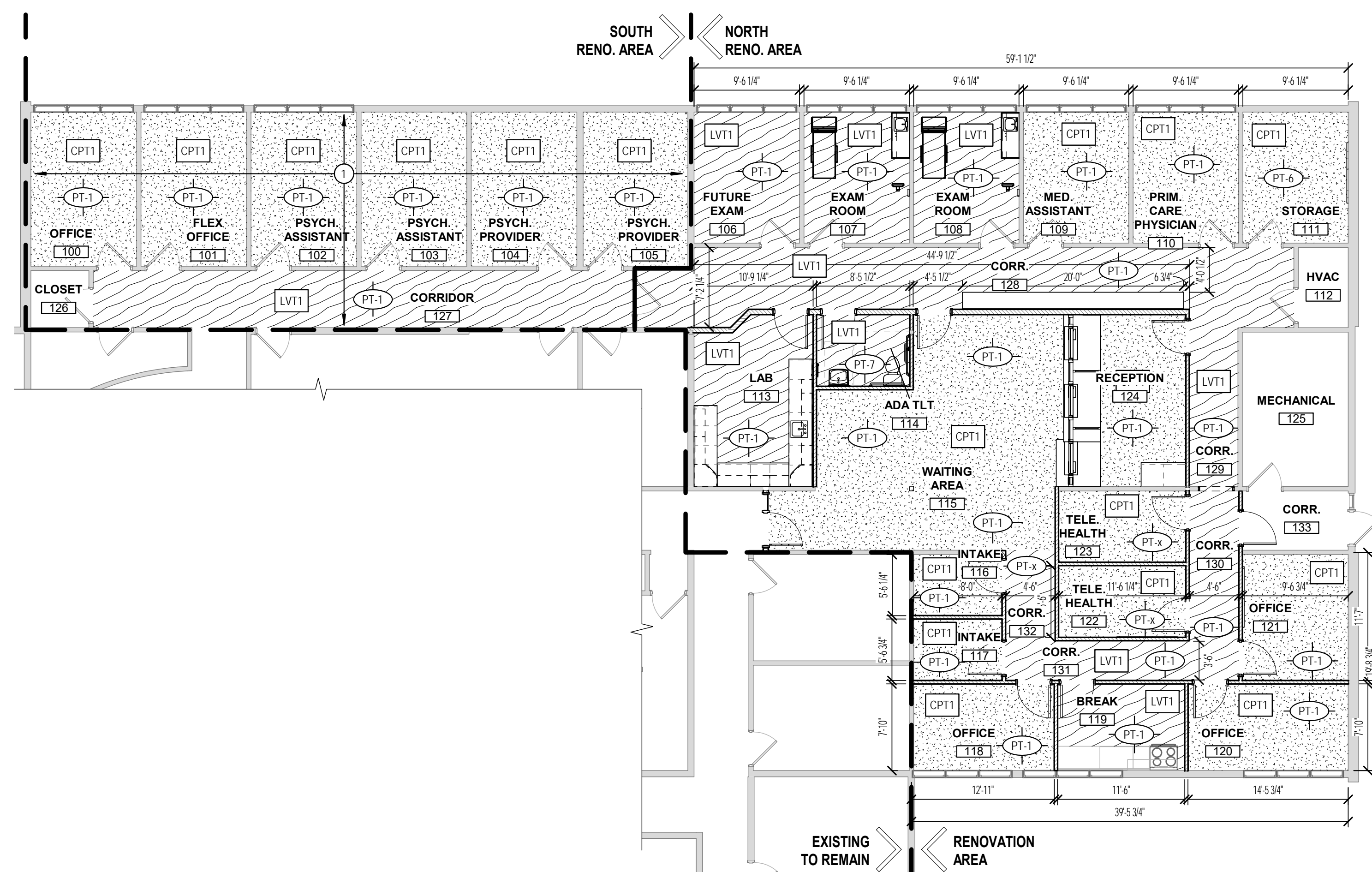
4 LAB CASEWORK - S ELEVATION
SCALE: 1/4" = 1'-0"



3 LAB CASEWORK - N ELEVATION
SCALE: 1/4" = 1'-0"



2 LAB CASEWORK SECTION
SCALE: 1/2" = 1'-0"



1 RENOVATION AREA FINISH PLAN
SCALE: 1/8" = 1'-0"

QUALITY ASSURANCE

- A. ALL WORK INSTALLED UNDER THIS CONTRACT SHALL CONFORM TO CURRENT CODES AND STANDARDS LISTED HERE AND ALL APPLICABLE REQUIREMENTS OF FEDERAL, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
- B. ALL INSTALLATIONS SHALL CONFORM WITH ALL REQUIREMENTS OF: STATE MECHANICAL CODE; AMERICANS WITH DISABILITIES ACT (LATEST EDITION IN EFFECT AT THE TIME OF APPARATUS CONTRACT); STATE CONSTRUCTION INDUSTRY SAFETY CODE; ALL LAWS, ORDINANCES, RULES AND REGULATIONS IN EFFECT IN/OR BY THE STATE AND AS REQUIRED BY DEPARTMENT OF FIRE AND BUILDING SERVICES AND LOCAL AUTHORITY HAVING JURISDICTION.
- C. OBTAIN ALL LICENSES, PERMITS, ETC. AS REQUIRED AND BEAR COMPLETE COST OF SAME.
- D. OWNER'S REQUIREMENTS OR REGULATIONS, PERTAINING TO SAFETY, FIRE, CONDUCT, PARKING, SANITARY CONDITIONS, SMOKING, ETC., SHALL BE STRICTLY ADHERED TO BY ALL CONTRACTORS AND THEIR EMPLOYEES AND SUBCONTRACTORS ON THE JOB.

MATERIALS AND EQUIPMENT IN GENERAL

- A. ALL MATERIALS SHALL BE NEW IN COMPLIANCE WITH APPLICABLE REQUIREMENTS IN "CODES AND STANDARDS" IN THIS SECTION. ALL PIPE, FITTINGS, AND VALVES SHALL BE AS A MINIMUM OF SERVICE CLASS SUITABLE FOR WORKING AND TEST PRESSURE FOR WHICH THEY WILL BE USED, RATED FOR RESPECTIVE MEDIA HANDLED.
- B. ALL EQUIPMENT SHALL BE ACCEPTABLE EQUIVALENT TO PRODUCTS REFERENCED; COMPLETE WITH ALL REQUIRED APPARATUS, DEVICES, CONTROLS, ACCESSORIES, HARDWARE, SUPPORTS, ETC.; INSTALLED COMPLETE WITH ALL REQUIRED PIPING, VALVES, ETC.
- C. EQUIPMENT, WIRING, ETC. SHOWN ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL WORK WILL DEPEND ON MANUFACTURER'S STANDARDS FOR EQUIPMENT FURNISHED.
- D. ROUGH-IN AND CONNECT ALL MECHANICAL SERVICES TO ALL EQUIPMENT, UNLESS INDICATED OTHERWISE. EQUIPMENT, ROUGH-IN, WIRING, INSTALLATION, ETC. SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, DIAGRAMS, DRAWINGS, ETC. AND IN COMPLIANCE WITH CURRENT MECHANICAL CODE AND OTHER APPLICABLE CODES.
- E. MOTORS PROVIDED WITH EACH PIECE OF HVAC EQUIPMENT SHALL BE STANDARD NEMA DESIGN; OF TYPE APPROPRIATE AND APPROVED FOR THE APPLICATION; COMPLETE WITH DRIVES.

PRODUCT STORAGE

- A. EQUIPMENT, APPARATUS, ACCESSORIES AND INSTRUMENTS SHALL BE STORED IN ORIGINAL CARTONS OR OTHERWISE PROTECTED, IN SUCH A MANNER SO AS TO PREVENT WEATHER DAMAGE OR BREAKAGE, WITH OPENINGS COVERED TO KEEP OUT DIRT AND FOREIGN MATTER.

WORKMANSHIP

- A. MECHANICAL WORK SHALL CONFORM TO RESPECTIVE TRADE ASSOCIATION STANDARDS OF QUALITY. SHEETMETAL WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" MANUAL.

PERFORMANCE TESTING, ADJUSTING AND BALANCING

- A. BALANCE AND TESTING AGENCY SHALL BE NEBB CERTIFIED, AN ORGANIZATION WHICH SPECIALIZES IN BALANCING AND TESTING OF HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS.
- B. BALANCE, ADJUST AND TEST AIR MOVING EQUIPMENT, AIR DISTRIBUTION (HEATING-VENTILATING AND RELATED HEAT TRANSFER SYSTEMS) AND EXHAUST SYSTEMS AS SPECIFIED HEREIN.
- C. ALL TESTING AND BALANCING WORK SHALL BE PERFORMED UNDER DIRECT SUPERVISION OF AND ENDORSED BY AN ACCEPTABLE QUALIFIED TEST AND BALANCE TECHNICIAN.
- D. SUBMITTALS
 - 1. PREPARE FOUR (4) COPIES OF ALL TEST DATA, TYPEWRITTEN ON APPROPRIATE DATA SHEETS AND ON SEPIA DRAWINGS MADE FROM LATEST AVAILABLE REVISED SET OF MECHANICAL DRAWINGS (FURNISHED BY CONTRACTOR RESPONSIBLE FOR RESPECTIVE SYSTEM) AND FORWARD REQUIRED COPIES TO CONTRACTOR FOR SUBMISSION TO ENGINEER FOR EVALUATION.
 - A) TEST DATA SHALL INCLUDE ALL DATA RECORDED AS SPECIFIED IN PART 3 OF THIS SECTION.
 - B) PROVIDE A SINGLE LINE DIAGRAM FOR EACH AIR SYSTEM IDENTIFYING EACH AIR TERMINAL UNIT BY NUMBER THAT CORRESPONDS WITH REPORT INFORMATION.
 - C) WORK WILL BE CONSIDERED NOT COMPLETE UNTIL ALL REQUIRED DATA HAS BEEN SUBMITTED BY CONTRACTOR, REVIEWED BY ENGINEER AND ADJUDGED ACCEPTABLE.
- E. PREPARATION FOR TESTING AND BALANCING

- 1. CONTRACTOR FURNISHING RESPECTIVE EQUIPMENT SHALL PERFORM OR PROVIDE THE FOLLOWING, PRIOR TO START OF TESTING AND BALANCING:
 - A) CLEAN ALL STRAINERS IN RESPECTIVE LIQUID HEAT TRANSFER SYSTEMS.
 - B) IMMEDIATELY BEFORE ADJUSTING AND BALANCING OPERATIONS, SERVICE ALL AIR SYSTEM FILTRATION EQUIPMENT AND DEVICES.
 - 1) INSTALL FILTERS IF NOT ALREADY IN PLACE.
 - 2) IN AIR HANDLING EQUIPMENT AND SYSTEMS THAT HAVE BEEN OPERATED DURING CONSTRUCTION, AND REPLACE ALL USED THROWAWAY FILTERS.
- 2. PLACE ALL HEATING AND VENTILATING SYSTEMS AND EQUIPMENT INTO FULL OPERATION AND CONTINUE THE OPERATION OF SAME DURING EACH WORKING DAY OF TESTING AND BALANCING.

F. TESTING AND ADJUSTING PROCEDURE IN GENERAL

- 1. PERFORM ALL APPLICABLE TESTS AND ADJUSTMENTS ON EACH RESPECTIVE SYSTEM AND UNIT OF EQUIPMENT.
- 2. AS A MINIMUM, TESTING AND ADJUSTING SHALL INCLUDE ALL APPLICABLE PROCEDURES SPECIFIED IN THIS SECTION.

G. AIR DISTRIBUTION TESTING AND ADJUSTING PROCEDURE

- 1. PERFORM ALL APPLICABLE TESTS AND ADJUSTMENTS ON EACH SYSTEM.
- 2. IDENTIFY AND LIST SIZE, TYPE, AND MANUFACTURER OF ALL EQUIPMENT.
- 3. SUPPLY AND EXHAUST FANS - CHECK FOR CORRECT ROTATION, TEST AND ADJUST TO DESIGN REQUIREMENTS.
- 4. MOTOR - TEST AND RECORD ELECTRICAL CHARACTERISTICS, RPM, SERVICE FACTOR, MEASURED VOLTAGE, FULL LOAD AMPERES AND CORRECTED FULL LOAD AMPERAGE. CHECK AND RECORD STARTER SIZE, OVERLOAD HEATER(S) SIZES AND RATING, REPLACEMENT BELT SIZES, ETC.
- 5. TEST AND RECORD SYSTEM STATIC PRESSURE, SUCTION AND DISCHARGE.
- 6. TEST AND ADJUST SYSTEM FOR DESIGN CFM OF RECIRCULATED AND OUTSIDE AIR.
- 7. TEST AND RECORD ENTERING AIR TEMPERATURES AND LEAVING AIR TEMPERATURES. (D.B. HEATING AND COOLING, W.B. COOLING)
- 8. ADJUST ALL ZONES AND MAIN SUPPLY AND RETURN AIR DUCTS TO PROPER DESIGN CFM.
- 9. EACH DIFFUSER, GRILLE AND REGISTER -
 - A) IDENTIFY AS TO LOCATION AND AREA.
 - B) IDENTIFY AND LIST SIZE, TYPE, FLOW FACTOR AND MANUFACTURER.
 - C) FOR CONSTANT AIR VOLUME SYSTEMS - TEST AND ADJUST TO WITHIN ±10% OF DESIGN REQUIREMENTS.
 - D) READINGS AND TESTS OF DIFFUSERS, GRILLES AND REGISTERS SHALL INCLUDE REQUIRED VELOCITY (FPM) AND TEST RESULTANT VELOCITY, REQUIRED CFM AND TEST RESULTANT CFM AFTER ADJUSTMENTS.
 - E) ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE ADJUSTED TO MINIMIZE DRAFTS IN ALL AREAS.

CLEANING

- A. CONTRACTOR SHALL CLEAN ALL OF HIS WORK INSIDE AND OUT.
- B. AIR DISTRIBUTION SYSTEMS SHALL HAVE ALL DIRT AND FOREIGN MATERIAL REMOVED FROM INSIDE AND OUTSIDE OF DUCTS, PLENUMS, HOUSINGS, DEVICES, TERMINALS, ETC. AS INSTALLATION PROGRESSES. PROTECT OPEN ENDS OF DUCTWORK AND INLETS AND OUTLETS OF EQUIPMENT AND DEVICES DURING CONSTRUCTION. CLEAN ALL ACCESSIBLE PARTS OF DUCTWORK AND AIR PASSAGES IN EQUIPMENT BEFORE FILTERS ARE INSTALLED OR REPLACED FOR SYSTEM BALANCING.

SLEEVES FOR PIPE

- A. SLEEVES SHALL BE PROVIDED FOR ALL PIPES PASSING THROUGH CONCRETE, MASONRY OR WET PLASTER OR DRYWALL CONSTRUCTION; INSTALLED DURING CONSTRUCTION OF RESPECTIVE BUILDING COMPONENT.
- B. SLEEVE MATERIALS SHALL BE SCHEDULE 40 STEEL PIPE THROUGH CONCRETE AND MASONRY; GALVANIZED SHEETMETAL THROUGH WET PLASTER AND DRYWALL. EXPOSED SLEEVES SHALL BE GALVANIZED EXTENDED 3" ABOVE FLOOR.

SUPPORTS, DEVICES AND HARDWARE

- A. FURNISH AND INSTALL ACCEPTABLE CONCRETE INSERTS, ANCHORS, CLAMPS, BRACKETS, HANGERS, STRUCTURAL MEMBERS (ANGLES, CHANNELS, ETC.) AND FRAMES, ETC., REQUIRED FOR SUPPORTING ALL RESPECTIVE WORK.
- B. SUPPORTING DEVICES, ASSEMBLIES AND ATTACHMENTS SHALL BE DESIGNED AND ARRANGED TO CARRY THE WEIGHT OF THE SUPPORTED ITEMS INCLUDING HANGER AND CONTENTS, WITHOUT TRANSMITTING VIBRATION OR NOISE TO THE BUILDING CONSTRUCTION; DESIGNED, APPROPRIATE AND APPROVED FOR THE PURPOSE USED; HAVE A NEAT AND FINISHED APPEARANCE AND COMPLETE THE INSTALLATION; HAVE CORROSION PROTECTION SUITABLE FOR THE ATMOSPHERE WHERE INSTALLED; ADEQUATELY AND SAFELY ATTACHED TO THE BUILDING STRUCTURE OR STRUCTURAL MEMBERS. EXPOSED SUPPORTS SHALL BE PAINTED UNLESS OF NON-FERROUS MATERIAL OR PROVIDED WITH PLATED (RUSTPROOF) FINISH. COPPER HANGERS OR INSULATING INSERTS SHALL BE USED WITH COPPER PIPE.

INSULATION

- A. INSULATE RESPECTIVE WORK INSTALLED UNDER THIS CONTRACT AS SPECIFIED AND SCHEDULED HEREIN AND INDICATED ON DRAWINGS.
- B. ALL MATERIALS (INSULATION, JACKETS, SEALANTS AND ADHESIVES) SHALL HAVE FIRE HAZARD CLASSIFICATION NOT EXCEEDING FLAME SPREAD "25" AND SMOKE DEVELOPED "50" NOR EXCEEDING NFPA, STATE AND LOCAL CODE REQUIREMENTS AS APPROVED BY STATE AND LOCAL AUTHORITIES.
- C. VAPOR BARRIER JACKET SHALL BE UNDERWRITERS' APPROVED, FLAME RETARDANT, FIRE RESISTANT, NONASPHALTIC LAMINATE OF WHITE HEAVY KRAFT PAPER AND ALUMINUM FOIL REINFORCED WITH GLASS FIBER OR ACCEPTABLE EQUIVALENT. INSULATION THAT IS TO BE PAINTED SHALL HAVE A SMOOTH UNIFORM SURFACE SUITABLE FOR PAINTING OR HAVE SIZED GLASS FIBER CLOTH OUTER COVERING APPLIED OVER VAPOR BARRIER AND JOINTS.
 - 1. JACKET SHALL HAVE ALL JOINTS SEALED VAPOR TIGHT. STAPLES SHALL NOT BE USED IN VAPOR BARRIER JACKETS.
- D. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS USING RECOMMENDED ADHESIVES, FASTENERS, ETC. INSULATION SHALL BE APPLIED ONLY AFTER PIPES, DUCTS AND EQUIPMENT HAVE BEEN TESTED, PROVEN TIGHT, THOROUGHLY CLEANED AND THERE IS NO EVIDENCE OF LEAKAGE.
- E. ALL UNACCEPTABLE INSULATION WORK SHALL BE REPLACED WITH NEW ACCEPTABLE WORK. UNACCEPTABLE WORK INCLUDES BUT IS NOT LIMITED TO DEFORMED, CRACKED, DENTED OR SAGGING INSULATION, SEPARATED JOINTS, DAMAGED JACKET, LOOSE COVERING OR TAPE OR OTHERWISE UNEVEN APPEARANCE.
- F. PIPE INSULATION SHALL BE APPLIED TO PIPING AS SCHEDULED HEREIN OR NOTED ON DRAWINGS.
 - 1. MOLDED RIGID GLASS FIBER (MRGF) PIPE INSULATION SHALL BE FACTORY MOLDED RIGID TYPE; .23 MAXIMUM K FACTOR AT 75°F MEAN TEMPERATURE; WITH INTEGRAL FIRE RATED JACKET.
 - A) ALL HEATING WATER PIPING SUPPLY & RETURN = 1".

G. DUCT INSULATION SHALL BE OF THE FOLLOWING RESPECTIVE MATERIAL APPLIED TO DESIGNATED DUCTS IN THE THICKNESS INDICATED AND/OR WHERE NOTED ON DRAWINGS. ONLY ONE TYPE OF MATERIAL SHALL BE USED FOR A PARTICULAR APPLICATION THROUGHOUT THE PROJECT.

- 1. BLANKET GLASS FIBER INSULATION SHALL BE LONG FIBER, GLASS BLANKET TYPE; .25 MAXIMUM K FACTOR AT 75°F DIFFERENTIAL; THREE-QUARTER (.75) PCF DENSITY; EQUIPPED WITH VAPOR BARRIER JACKET SPECIFIED HEREIN, EXTENDING 2" BEYOND GLASS FIBER FOR LAP JOINT SEALING; APPLIED TO FOLLOWING DUCTS:
 - A) ALL SUPPLY AND RETURN DUCTS IN CONCEALED UNCONDITIONED SPACES INCLUDING ATTIC AND RETURN AIR PLENUMS = 1-1/2".
- 2. RIGID BOARD GLASS FIBER DUCT INSULATION SHALL BE .22 MAXIMUM K FACTOR AT 75°F DIFFERENTIAL; THREE (3) PCF DENSITY; WITH INTEGRAL VAPOR BARRIER JACKET SPECIFIED HEREIN WITH JOINTS TAPED USING SAME MATERIAL; APPLIED TO FOLLOWING DUCTS:
 - A. ALL OUTSIDE AIR INTAKE DUCTS = 2".

DUCTWORK

- A. DUCTWORK MATERIALS, PRODUCTS AND INSTALLATION SHALL BE PROVIDED IN COMPLIANCE WITH MECHANICAL RULES AND REGULATIONS PROMULGATED BY DEPARTMENT OF FIRE AND BUILDING SERVICES (UNIFORM MECHANICAL CODE PUBLISHED JOINTLY BY INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS AND INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS, WITH EXCEPTIONS AS NOTED), LATEST EDITION, AND THESE SPECIFICATIONS.
- B. DUCTWORK MATERIAL SHALL, UNLESS NOTED OTHERWISE ON DRAWINGS, BE G60 COATED GALVANIZED STEEL CONFORMING TO ASTM STANDARDS A-525 AND A-527, WHICH WILL DOUBLE SEAM WITHOUT FRACTURE, MADE UP TO BE AIRTIGHT, SMOOTH INSIDE, OF SIZE SHOWN ON DRAWINGS.
- C. RECTANGULAR AND SQUARE DUCTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TABLES 1-3 THROUGH 1-13 AND ASSOCIATED DETAILS OF SMACNA "HVAC DUCT CONSTRUCTION STANDARDS", LATEST EDITION.
 - 1. SEAM JOINTS FOR DUCTS SHALL BE AS FOLLOWS: CORNER = PITTSBURGH LOCKED SEAM; TRANSVERSE = STANDING SEAM; LONGITUDINAL = LOCKED SEAM, WHERE SHOWN = WELDED (BRAZED) WATERTIGHT. BUTTON PUNCH SNAP LOCK SEAMS ARE NOT ACCEPTABLE.
 - 2. CROSS BREAK ALL DUCT AREAS OVER 12" WIDE FOR STIFFNESS. WHERE VIBRATION, SAGGING OR BUCKLING WOULD OCCUR, ANGLE IRON STIFFENER BRACES SHALL BE PROVIDED, RIVETED TO DUCTS. SPACING OF BRACES SHALL BE IN ACCORDANCE WITH LATEST EDITION OF SMACNA DUCT CONSTRUCTION STANDARD.
 - 3. ALL DUCT ELBOWS SHALL BE FULL RADIUS DESIGN HAVING INSIDE RADIUS EQUAL TO DUCT WIDTH (R=W), UNLESS 90° ELBOW IS SHOWN ON DRAWING. ALL 90° ELBOWS SHALL BE EQUIPPED WITH TURNING VANES.
 - 4. ALL DUCT TRANSITIONS SHALL BE UNIFORM TAPER DESIGN WITH DIVERGING FLOW TRANSITIONS CONSTRUCTED 20" OR LESS TO PARALLEL DUCT FACES AND CONTRACTING FLOW TRANSITIONS CONSTRUCTED 30" OR LESS TO PARALLEL DUCT FACES, UNLESS SHOWN OTHERWISE ON DRAWING.
 - 5. EXTERNAL BRACING FOR DUCT SHALL BE PROVIDED ON RECTANGULAR AND SQUARE DUCTS OVER 18" WIDE, CONSISTING OF GALVANIZED STEEL ANGLES, OF SIZE AND SPACING AS SCHEDULED, PROVIDED ON ALL FOUR SIDES OF DUCT, FASTENED TO DUCT AT 6" INTERVALS ALONG ANGLES.
 - 6. DUCT HANGER AND SUPPORT SYSTEMS SHALL NOT EXCEED AN EIGHT FOOT (8'-0") SPACING.
- D. FLEXIBLE AIR DUCT SHALL BE CONSTRUCTED OF A MATERIAL CAPABLE OF WITHSTANDING 2" W.G. MAXIMUM WORKING PRESSURE, CLAMPED TO METAL DUCT WITH STRAPS AND SEALED WITH DUCT TAPE; FACTORY INSULATED ON OUTSIDE WITH 1" THICK, .75 PCF DENSITY GLASS FIBER SHEATHED WITH EXTERIOR VINYL VAPOR BARRIER WHERE INSULATED DUCT IS REQUIRED DUCT SHALL BE U.L. 181 LISTED, CLASS 1 FLEXIBLE AIR DUCT. CLEVAFLX, FLEXMASTER, GENFLEX, THERMAFLEX, WIREMOLD OR ACCEPTABLE EQUIVALENT.
- E. VOLUME DAMPERS SHALL BE 20 GAUGE GALVANIZED IRON WELDED TO SQUARE COLD ROLLED STEEL OPERATING ROD, WITH END BEARINGS AND SELF-LOCKING DIAL REGULATOR. EXPOSED REGULATORS SHALL BE CHROME PLATED. PROVIDE SHAFT EXTENSION AND CONCEALED REGULATOR WHERE DAMPER IS IN INACCESSIBLE LOCATION.
- F. SEAL ALL OPENINGS AROUND DUCTS WHERE PENETRATING WALLS, FLOORS AND PARTITIONS WITH MATERIAL HAVING A FIRE RESISTANCE RATING EQUAL TO FIRE RESISTANCE RATING OF WALL, FLOOR OR PARTITION PENETRATED. EXTERNAL INSULATION SHALL PASS THROUGH WALLS EXCEPT WHERE FIRE DAMPERS ARE INSTALLED. EXPOSED DUCTS THROUGH WALLS SHALL BE PROVIDED WITH NEAT TRIM TO COVER OPENING AROUND DUCT.

- G. ACCESS DOORS OR PANELS SHALL BE HINGED, UNLESS REMOVABLE TYPE IS REQUIRED TO ALLOW ACCESS; CONSTRUCTED TO SMACNA STANDARDS; INSULATED SANDWICH TYPE IN INSULATED DUCTS; LOCATED WHERE REQUIRED TO ALLOW ACCESS FOR MAINTENANCE, INSPECTION, ADJUSTMENT, LINK REPLACEMENT, ETC. WHERE POSSIBLE WITHOUT ADDITIONAL DUCTWORK, ETC. INSTALL DUCT ACCESS UNITS IN LOCATIONS THAT WILL NOT REQUIRE ACCESS PANELS IN BUILDING CONSTRUCTION. PROVIDE ACCESS PANELS IN NONACCESSIBLE WALL AND CEILING CONSTRUCTION.

DUCT SEALING REQUIREMENTS

- A. SEAL ALL DUCT LONGITUDINAL SEAMS, TRANSVERSE JOINTS AND FITTING CONNECTIONS.
- B. SEALANT SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS; ONE OF THE FOLLOWING:
 - 1. GYPSUM IMPREGNATED TAPE SHALL BE ACCEPTABLE EQUIVALENT TO HARDCAST #DTS300, WITH #FTA20 ACTIVATOR/ADHESIVE.
 - 2. FIBER REINFORCED DUCT SEALER SHALL BE INDUSTRIAL GRADE, INDOOR/OUTDOOR USE, HIGH VELOCITY, WATER BASED, NON-FLAMMABLE; HAVE U.L. LISTING WITH RATINGS OF FLAME SPREAD 0, SMOKE DEVELOPED 0; ACCEPTABLE EQUIVALENT TO HARDCAST #DS-321 "DUCT-SEAL".

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Building & Interior Design, Engineering, Construction Management

GERALD SOUTH
REGISTERED
No. 1900281
STATE OF INDIANA
PROFESSIONAL ENGINEER

Gerald South
Certified By

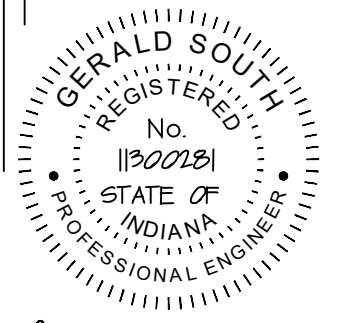
RENOVATION CENTERSTONE

RICHMOND, INDIANA

Project No.... 2926-1
Coordinator.... INERSTRADT

Date..... 4/5/2019

Revision: No. Date



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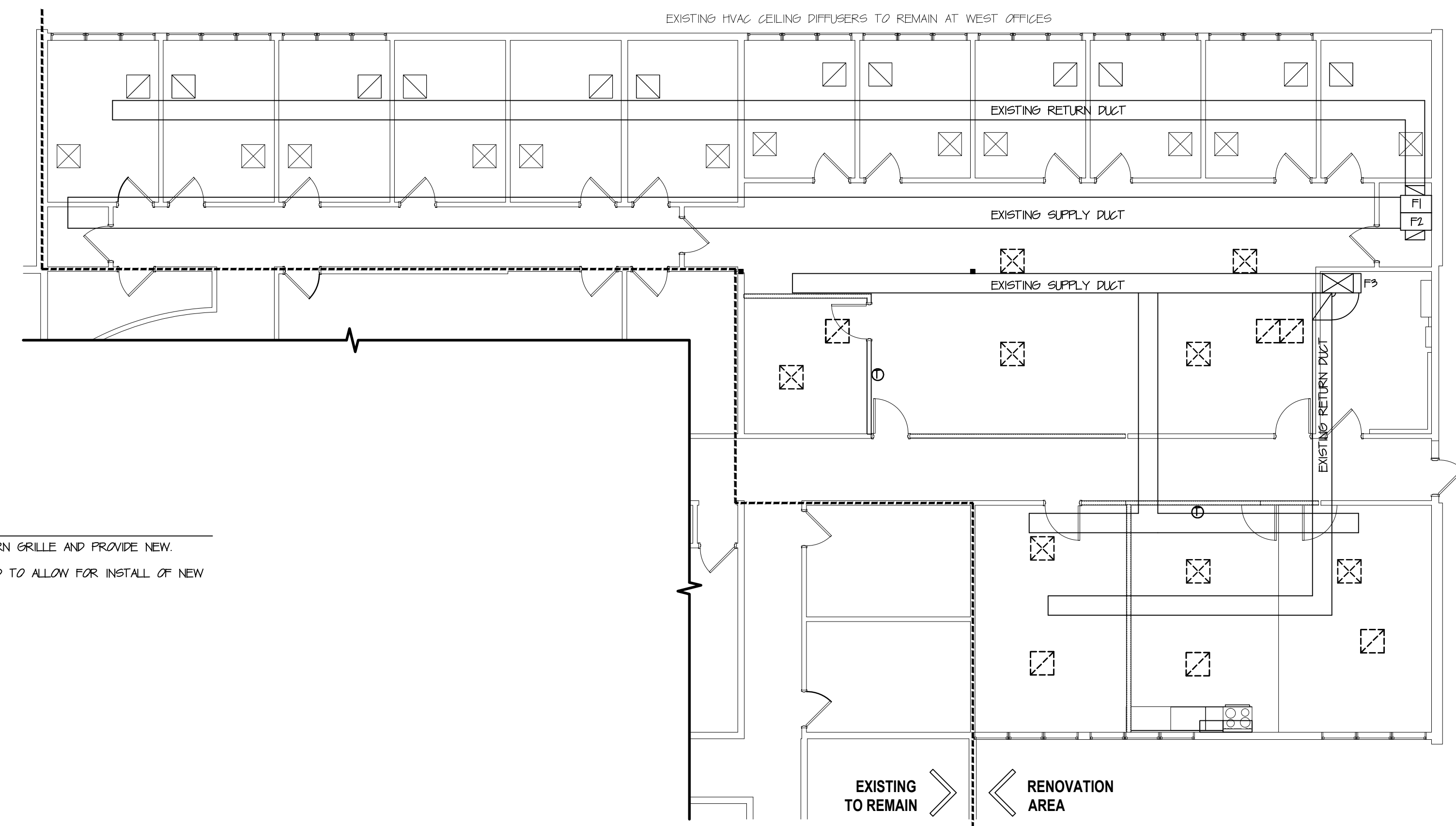
RENOVATION
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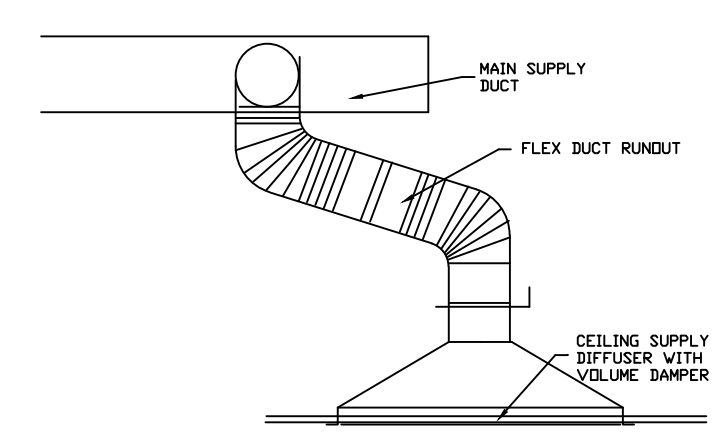
FIRST FLOOR HVAC DEMO PLAN
SCALE: 1/8" = 1'-0" North

GENERAL HVAC NOTES:

- CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS ONCE CEILINGS ARE REMOVED. INSPECT ALL EXISTING ITEMS TO REMAIN AND NOTIFY ENGINEER OF ANY ISSUE.
- THE CONSTRUCTION DRAWINGS SHOW GENERAL LAY-OUT. ALL WORK SHALL BE COMPLETED IN EVERY DETAIL EVEN THOUGH EVERY ITEM NECESSARILY INVOLVED IS NOT MENTIONED OR SPECIFIED. ALL WORK SHALL BE INSTALLED PER MFG. RECOMMENDATIONS AND MEET ALL REQUIRED BUILDING CODES.
- HVAC CONTRACTOR TO BALANCE THE SYSTEM.
- CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS WITH OWNER.
- COORDINATE ALL DUCT WORK AND DIFFUSER LOCATIONS TO AVOID LIGHTING LOCATIONS. REROUTE AS REQUIRED.

HVAC DEMO NOTES:

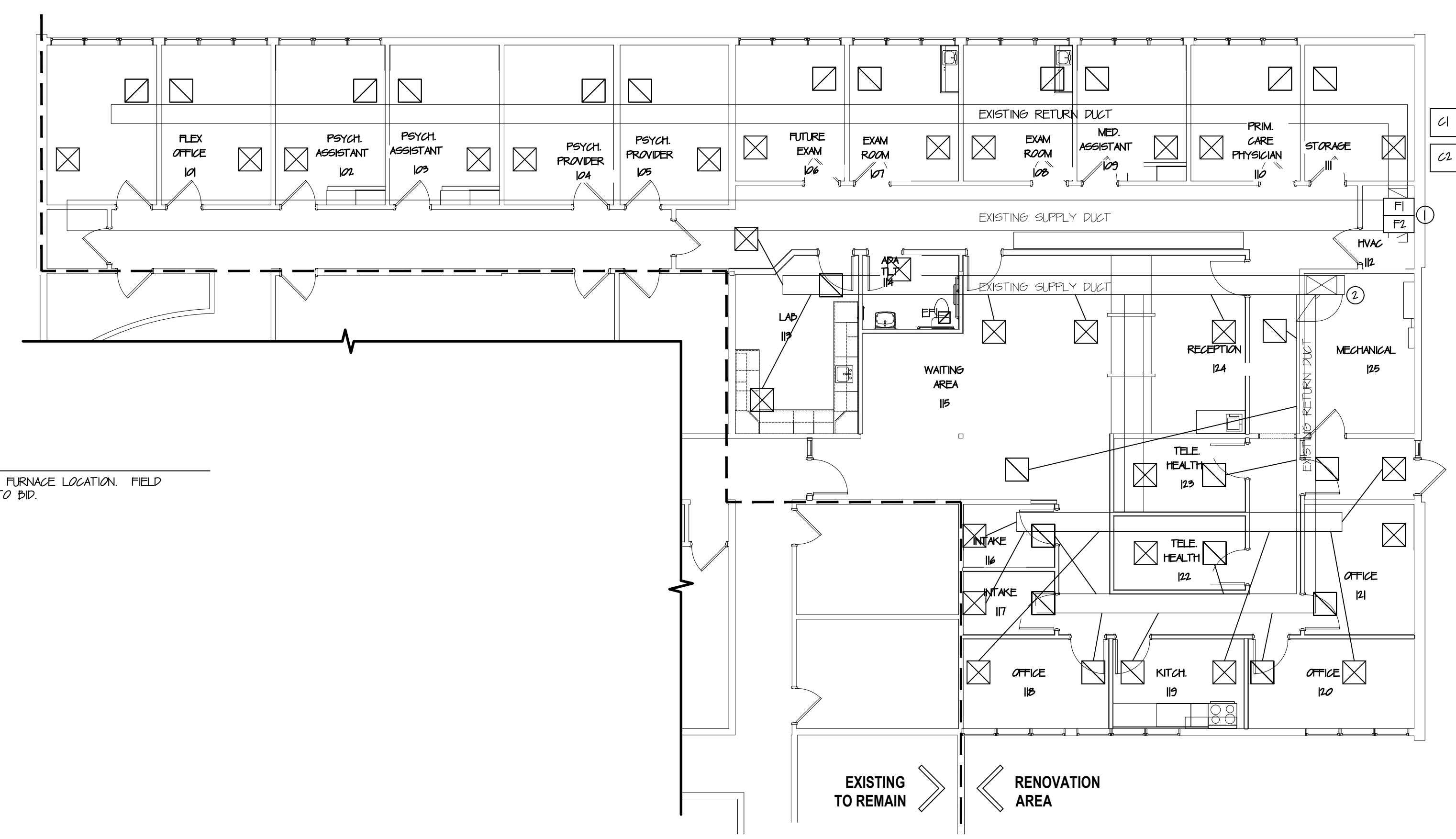
- REMOVE ALL EXISTING SUPPLY AND RETURN GRILLE AND PROVIDE NEW.
- FURNACE AND DUCTWORK TO BE REMOVED TO ALLOW FOR INSTALL OF NEW FURNACE.



TYPICAL DIFFUSER DETAIL
NOT TO SCALE

REGISTERS			
DESIGNATION	NECK SIZE	MANUFACTURER	SIZE
☒ SUPPLY	F.V.	HART & COOLEY	24"X24"
☒ RETURN	F.V.	HART & COOLEY	24"X24"

MFG. TO PROVIDE DUCT WORK SHOP DRAWINGS IF REQUIRED AND BALANCE SYSTEM. RELOCATED DIFFUSER AS REQUIRED AS COORDINATED WITH OWNER EQUIPMENT AND LIGHTING.



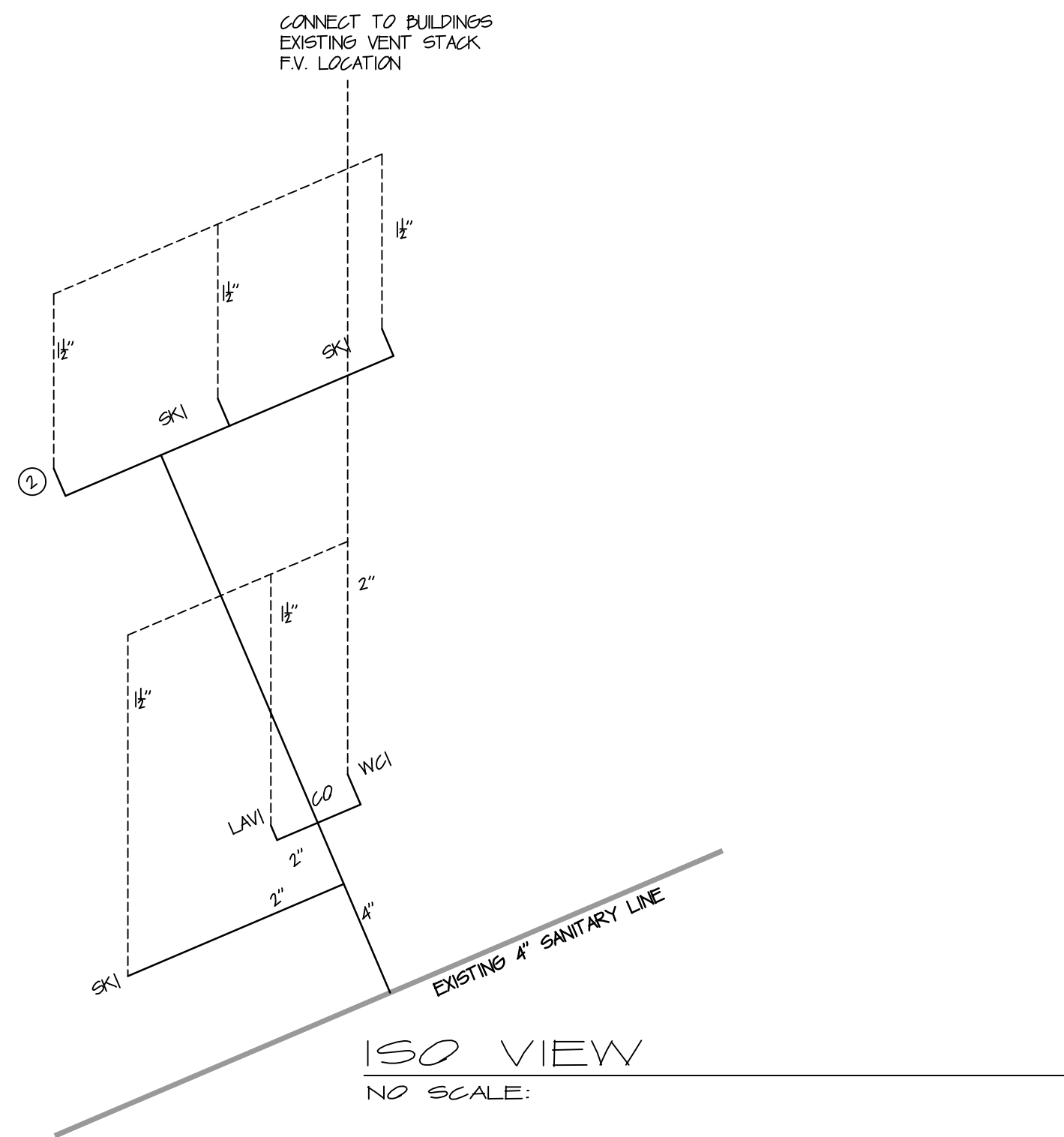
FIRST FLOOR HVAC
SCALE: 1/8" = 1'-0" North

HVAC EQUIPMENT SCHEDULE

- F1 REPLACEMENT TEMPSTAR OR EQUAL 100,000 BTU 99% NATURAL GAS
- F2 REPLACEMENT TEMPSTAR OR EQUAL 100,000 BTU 99% NATURAL GAS
- F3 EXISTING
- C1 REPLACEMENT 4 TONN 3 PHASE 14 SEER OUTSIDE CONDENSING UNIT
- C2 REPLACEMENT 4 TONN 3 PHASE 14 SEER OUTSIDE CONDENSING UNIT
- C3 EXISTING
- ☒ EPI 75 CFM

○ HVAC KEY NOTES:

- NEW REPLACEMENT FURNACE AT EXISTING FURNACE LOCATION. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.
- EXISTING FURNACE TO REMAIN.



FIXTURE CONNECTION SCHEDULE				
SYM.	DESCRIPTION	CW	HW	WA. VENT
WC1	WATER CLOSET (TANK TYPE, A.D.A.)	1/2"	4"	2"
LAV1	LAVATORY	1/2"	2"	1 1/2"
SK1	COUNTER SINK	1/2"	2"	1 1/2"
SK2	EXAM SINK	1/2"	2"	1 1/2"
NOTE: CLEAN-OUTS TO BE SAME SIZE AS LINE SERVED NOTE: SIZE TO BE A MIN. OR PER MFG. / CODE REQUIREMENTS.				

PLUMBING FIXTURE SCHEDULE

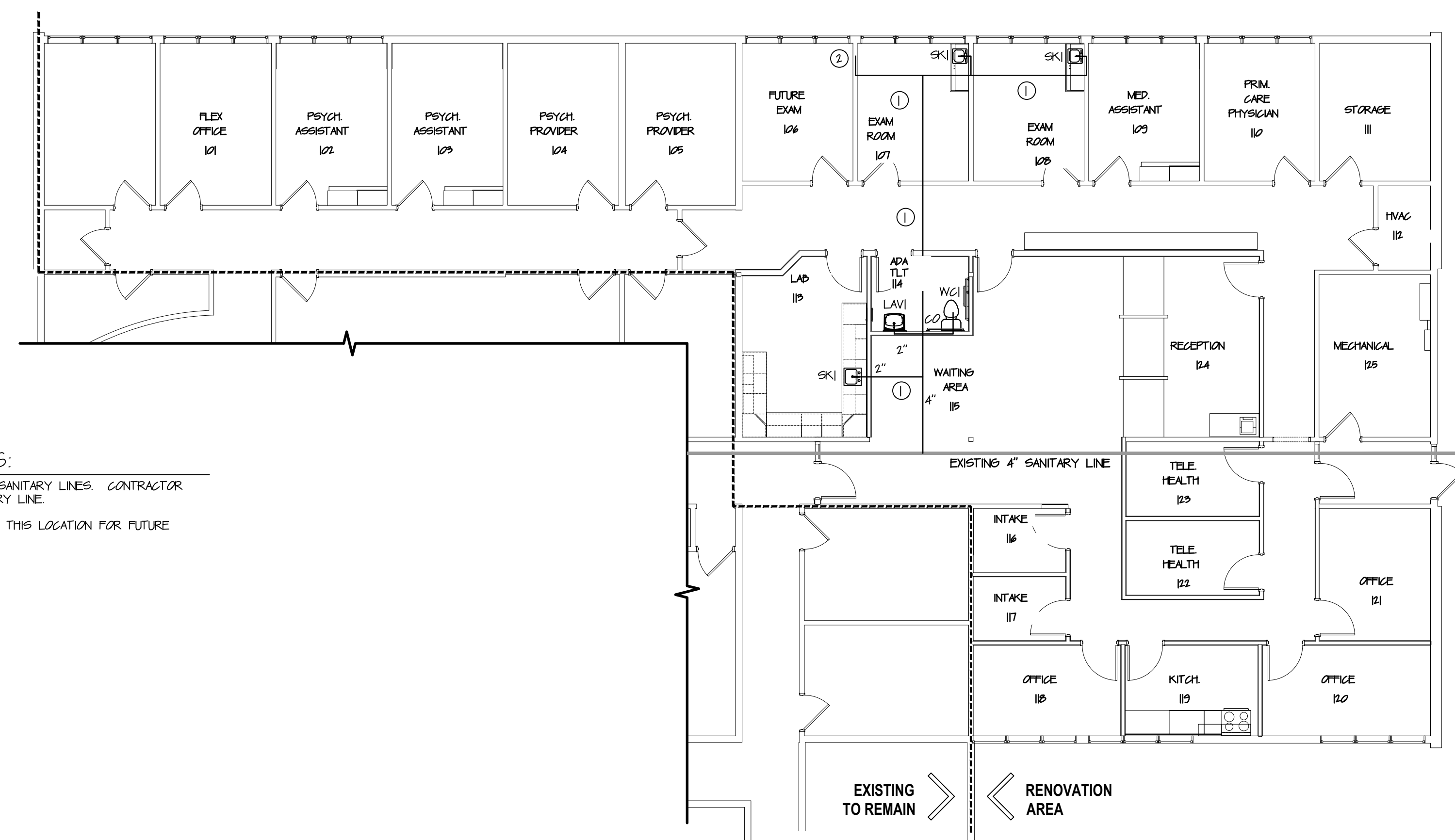
WC1 - ADA WATER CLOSET
LAV1 - ADA WALL MOUNT SINK
SK1 - COUNTER MOUNT SINK
CONTRACTOR TO VERIFY ALL PLUMBING FIXTURE TYPES WITH OWNER.
CONNECT NEW VENT LINES TO BUILDINGS EXISTING VENT STACK F.V. LOCATION.

GENERAL PLUMBING NOTES:

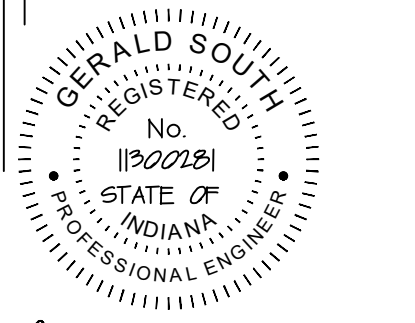
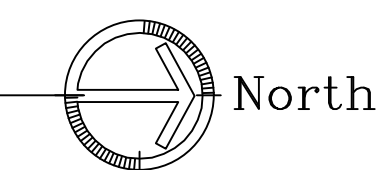
- CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS INSPECT ALL EXISTING ITEMS TO REMAIN AND NOTIFY ENGINEER OF ANY ISSUE.
- THE CONSTRUCTION DRAWINGS SHOW GENERAL LAY-OUT. ALL WORK SHALL BE COMPLETED IN EVERY DETAIL EVEN THOUGH EVERY ITEM NECESSARILY INVOLVED IS NOT MENTIONED OR SPECIFIED. ALL WORK SHALL BE INSTALLED PER MFG. RECOMMENDATIONS AND MEET ALL REQUIRED BUILDING CODES.

PLUMBING KEY NOTES:

- SAW CUT FLOOR AS REQUIRED FOR NEW SANITARY LINES. CONTRACTOR TO VERIFY LOCATION OF EXISTING SANITARY LINE.
- STUB SANITARY AND DOMESTIC WATER TO THIS LOCATION FOR FUTURE EXAM ROOM SINK.



FIRST FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"



Gerald South
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RENOVATION CENTERSTONE

RICHMOND, INDIANA

Project No. 2326-1
Coordinator..... INERSTRÖT

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CLEANING

- A. CONTRACTOR SHALL CLEAN ALL WORK INSIDE AND OUT.
- B. CONDUIT SYSTEMS, EQUIPMENT, WIREWAYS, OUTLET AND PULLBOXES, ETC. SHALL HAVE ALL FOREIGN MATERIAL, DIRT, PULLING COMPOUND, WIRE SCRAPS, INSULATION STRIPPINGS, ETC., REMOVED FROM INSIDE AS INSTALLATION PROGRESSES.
- C. CLEAN ALL ACCESSIBLE PARTS OF SYSTEMS AND EQUIPMENT BEFORE WORK IS TURNED OVER TO OWNER.

PRODUCT STORAGE

- A. CONDUIT, FITTINGS, BOXES, ETC. SHALL BE STORED IN SUCH A MANNER SO AS TO PREVENT DAMAGE, WITH OPENINGS COVERED TO KEEP OUT DIRT AND FOREIGN MATTER.
- B. EQUIPMENT, APPARATUS, ACCESSORIES AND INSTRUMENTS SHALL BE STORED IN ORIGINAL CARTONS OR OTHERWISE PROTECTED, IN SUCH A MANNER SO AS TO PREVENT WEATHER DAMAGE OR BREAKAGE, WITH OPENINGS COVERED TO KEEP OUT DIRT AND FOREIGN MATTER.
- C. WIRE AND CABLE SHALL BE STORED IN FACTORY CARTONS OR ON SPOOLS, PROTECTED IN SUCH A MANNER SO AS TO PREVENT WEATHER, HEAT OR MECHANICAL DAMAGE.

ROUGH-IN

- A. ROUGH-IN ALL ELECTRICAL CONDUIT, WIRING AND OUTLETS AS REQUIRED FOR SPECIFIC ITEMS FURNISHED. ACTUAL CONNECTIONS AND FACILITIES REQUIRED FOR EQUIPMENT ARE SUBJECT TO MANUFACTURER'S STANDARDS FOR EQUIPMENT FURNISHED.

EQUIPMENT CONNECTIONS

- A. CONNECT ALL ELECTRICAL POWER FEEDERS TO EQUIPMENT COMPLETELY, READY FOR OPERATION.
- B. WIRING AND CONNECTIONS SHOWN ON CONTRACT DRAWINGS ARE TYPICAL AND FOR ESTIMATING PURPOSES ONLY. ACTUAL WORK WILL BE GOVERNED BY EXISTING CONDITIONS AND MANUFACTURER'S STANDARDS FOR EQUIPMENT ACTUALLY FURNISHED.

GROUNDING

- A. SYSTEM AND EQUIPMENT GROUNDING SHALL BE FURNISHED AND INSTALLED COMPLETELY, USING COLOR CODED WIRE AS PRESCRIBED BY I.E.C.
- B. ALL GROUNDING CONDUCTORS SHALL BE INSTALLED IN CONDUIT, UNLESS SHOWN OR SPECIFIED OTHERWISE.
- C. ALL CONNECTIONS TO GROUNDING CONDUCTORS SHALL BE MADE WITH APPROVED SOLDERLESS CONNECTIONS BRAZED OR BOLTED TO EQUIPMENT OR ITEM TO BE GROUNDED, ACCESSIBLE FOR INSPECTION.
- D. SECURELY GROUND ALL MECHANICAL EQUIPMENT.
- E. IN GENERAL, METAL CONDUITS AND RACEWAYS SHALL PROVIDE CONTINUOUS PATHS FOR GROUND. GROUNDING CONDUCTORS SHALL BE INSTALLED WITH ALL CIRCUITS. ISOLATED GROUND RECEPTACLE CIRCUITS SHALL ALSO INCLUDE ISOLATED GROUNDING CONDUCTORS.

DATA RACEWAY

- A. RACEWAY SYSTEM SHALL CONSIST OF CONNECTING CONDUITS, BLANK CONDUIT, BACKBOARD(S) AND BOXES, WITH PULL CORD PROVIDED IN BLANK CONDUITS; ALL PROVIDED AND INSTALLED BY CONTRACTOR AS SHOWN ON DRAWINGS AND REQUIRED, FOR WIRING, INSTRUMENTS, EQUIPMENT, DEVICES, ETC. BY THE OWNER.
- B. OUTLETS SHALL BE STANDARD SINGLE-GANG OR TWO-GANG BOX AS REQUIRED, EQUIPPED WITH DEVICE COVERPLATE TO MATCH WIRING DEVICE PLATES. OPENINGS SHALL BE PROVIDED IN PLATED AS REQUIRED FOR RESPECTIVE CONNECTOR. VERIFY REQUIRED ROUGH-IN BOX SIZE AND COVERPLATE FEATURES (OPENINGS, ECT.) WITH OWNER PRIOR TO ROUGH-IN AND PURCHASE OF PLATES. PROVIDE BLANK PLATE IF REQUIRED CONFIGURATION CAN NOT BE DETERMINED.
- C. OUTLET CONDUIT SHALL BE 3/4" MINIMUM, INSTALLED FROM OUTLET BOX AND TERMINATED WITH BUSHED OPEN END ABOVE CEILING.
- D. CONNECTING CONDUIT SHALL BE AS REQUIRED FOR COMPLETE WIRING ACCESS (TYPICALLY RUN BETWEEN BOXES, BACKBOARDS, CABINETS, ETC., OR INSTALLED AS A SLEEVE BETWEEN POINTS).
- E. MAINTAIN TWO (2) METER (6') MINIMUM SEPARATION BETWEEN COMMUNICATIONS AND METALLIC FEEDER POWER CONDUITS.
- F. MAINTAIN 8" MINIMUM SEPARATION BETWEEN COMMUNICATIONS AND METALLIC BRANCH CIRCUIT POWER CONDUITS. MAINTAIN 12" MINIMUM SEPARATION BETWEEN COMMUNICATIONS AND PVC CONDUITS.
- G. PROVIDE GROUNDING AND BONDING RECOMMENDED BY TIA/EIA-607.

- B. ALL INSTALLATIONS SHALL CONFORM WITH ALL REQUIREMENTS OF: CURRENT ELECTRICAL CODE); AMERICANS WITH DISABILITIES ACT; STATE CONSTRUCTION INDUSTRY SAFETY CODE; ALL LAWS, ORDINANCES, RULES AND REGULATIONS IN EFFECT IN/OR BY THE STATE AND AS REQUIRED BY DEPARTMENT OF FIRE AND BUILDING SERVICES AND LOCAL AUTHORITY HAVING JURISDICTION.
- C. OBTAIN ALL LICENSES, PERMITS, ETC. AS REQUIRED AND BEAR COMPLETE COST OF SAME.
- D. ALL MATERIALS SHALL BE NEW BEST GRADE OF EACH REPRESENTATIVE TYPE; MANUFACTURED AND TESTED IN ACCORDANCE WITH LATEST EDITIONS OF U.L., NEMA, ANSI, ASA, IEEE AND IPCA STANDARDS; UNDERWRITERS' LABORATORIES, INC. LABELED WHERE APPLICABLE.
- E. OWNER'S REQUIREMENTS OR REGULATIONS, PERTAINING TO SAFETY, FIRE, CONDUIT, PARKING, SANITARY CONDITIONS, SMOKING, ETC., SHALL BE STRICTLY ADHERED TO BY ALL CONTRACTORS AND THEIR EMPLOYEES AND SUBCONTRACTORS ON THE JOB.

MATERIALS AND EQUIPMENT IN GENERAL

- A. ALL CONDUCTORS, RACEWAYS, DEVICES, ETC. SHALL BE AS A MINIMUM, OF SERVICE CLASS AND CAPACITY SUITABLE FOR LOCATION AND LOAD FOR WHICH THEY WILL BE USED.
- B. ALL EQUIPMENT SHALL BE ACCEPTABLE EQUIVALENT TO PRODUCTS REFERENCED; COMPLETE WITH ALL REQUIRED APPARATUS, DEVICES, CONTROLS, LAMPS, ACCESSORIES, HARDWARE, SUPPORTS, ETC., INSTALLED COMPLETE WITH ALL REQUIRED DISCONNECTS, CONNECTORS, ETC.
- C. ALL UNITS OF EACH INDIVIDUAL TYPE DEVICE, EQUIPMENT, ETC. SHALL BE THE PRODUCTS OF ONE MANUFACTURER OR SUPPLIER. MORE THAN ONE MAKE OF A SINGLE ITEM SHALL NOT BE USED.
- D. EQUIPMENT, WIRING, ETC. SHOWN ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL WORK WILL DEPEND ON EXISTING CONDITIONS AND MANUFACTURER'S STANDARDS FOR EQUIPMENT FURNISHED.
- E. ROUGH-IN AND CONNECT ALL ELECTRICAL SERVICES TO ALL EQUIPMENT, UNLESS INDICATED OTHERWISE. EQUIPMENT ROUGH-IN, WIRING, INSTALLATION, ETC. SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, DIAGRAMS, DRAWINGS, ETC. AND IN COMPLIANCE WITH CURRENT ELECTRICAL CODE AND OTHER APPLICABLE CODES.

WIRING METHODS

- A. ELECTRICAL INSTALLATIONS SHALL BE MADE USING GROUNDED METALLIC CONDUIT OR MC CABLE THROUGHOUT, IN COMPLIANCE WITH I.E.C.
- B. RIGID STEEL CONDUIT SHALL BE UTILIZED FOR ALL PENETRATIONS THROUGH CONCRETE INCLUDING WALLS, EXPOSED ON WALLS BELOW +6'-0" A.F.F. FOR EXTERIOR AND OTHER WET APPLICATIONS AND WHERE SHOWN ON DRAWINGS OR REQUIRED. INTERMEDIATE STEEL CONDUIT MAY BE USED IN LIEU OF RIGID CONDUIT, IN COMPLIANCE WITH I.E.C.
- C. EMT MAY BE USED IN DRY LOCATIONS ONLY, WHERE CONDUIT IS CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS, EXPOSED ON CEILINGS AND EXPOSED ON WALLS ABOVE 6'-0" A.F.F.
- D. FLEXIBLE METALLIC CONDUIT SHALL BE USED ONLY FOR FINAL CONNECTIONS TO MOTORS AND EQUIPMENT.

CONDUCTORS

- A. ALL CONDUCTORS SHALL BE COPPER; NEW, NOT GREATER THAN (2) YEARS OF AGE, COMPLY WITH LATEST SPECIFICATIONS OF NFPA, AND SHALL HAVE U.L. LABEL CLEARLY AFFIXED PER U.L. STANDARDS; NO. 12 MINIMUM UNLESS OTHERWISE INDICATED; #12 = SOLID, #10 = SOLID OR STRANDED, #8 AND LARGER = STRANDED; CONTROL - #14 MINIMUM AND AS REQUIRED; WIRE SIZE FOR LONG BRANCH CIRCUIT RUNS SHALL BE INCREASED AS REQUIRED TO MAINTAIN VOLTAGE DROP LIMITS OF I.E.C. STRANDED WIRE SHALL BE USED WHERE ANY SIZE CONDUCTOR IS SUBJECT TO FLEXING WHILE IN SERVICE AND WHERE RACEWAY HAS A SHORT BEND RADIUS.
- B. INSULATION SHALL BE THWN/THHN UNLESS OTHERWISE INDICATED; 600 VOLT RATING; COLOR CODED PER LATEST EDITION OF I.E.C.
- C. ALL CONDUCTORS OF A GIVEN TYPE SHALL BE A PRODUCT OF THE SAME MANUFACTURER, FURNISHED IN UNBROKEN CONTAINERS MARKED WITH DATE OF PRODUCTION.

CONDUCTOR SPLICING AND TERMINATING CONNECTORS

- A. ALL WIRING CONNECTIONS SHALL BE MADE UP WITH U.L. LISTED TERMINALS OR CONNECTORS WHICH COMPLY WITH I.E.C. AND HAVE MECHANICAL STRENGTH AND INSULATION EQUAL TO THOSE OF THE CONDUCTOR.
- B. CONNECTORS SHALL BE WIRE SIZE #14 THRU #10 = INSULATED METAL SPRING TWIST ON TYPE; WIRE SIZE LARGER THAN #10 = BOLT OR COMPRESSION TYPE.
- C. SO CALLED "WIRE NUTS" (NON-METALLIC THREADED CONNECTORS) WILL NOT BE ALLOWED ON ANY EQUIPMENT INCLUDING FIXTURES.
- D. CONTROL WIRING SHALL BE TERMINATED USING CRIMPED FORKED TONGUE TERMINALS.
- E. SPLICING, TAP AND TERMINAL DEVICES SHALL BE PROPER SIZE AND TYPE FOR THE APPLICATION AND COMPATIBLE WITH THE CONDUCTOR MATERIAL.

CONDUIT AND FITTINGS

- A. ALL CONDUIT SHALL BE RIGID GALVANIZED STEEL, IMC, OR EMT, 3/4" MINIMUM, UNLESS CONFIRMED IN WRITING BY ENGINEER TO BE ACCEPTABLE FOR A SPECIFIC APPLICATION OR UNLESS SHOWN. RIGIDLY SUPPORT CONDUIT FROM THE BUILDING STRUCTURE, USING U.L. LISTED DEVICES AND HARDWARE. ALL CONDUIT SHALL BE CONCEALED ABOVE CEILINGS AND IN WALLS.
 - 1. ACCEPTABLE PRODUCTS SHALL BE ALLIED, JONES & LAUGHLIN, NATIONAL ELECTRIC, PITTSBURGH STANDARD, REPUBLIC STEEL, WHEATLAND KEYSTONE.

- AND U.L. SPECIFICATION UL-6; U.L. LISTED, WITH EACH LENGTH LABELED.
- C. ELECTRICAL METALLIC TUBING SHALL BE MANUFACTURED FROM MILD STEEL; ZINC GALVANIZED OR SHERARDIZED BOTH INSIDE AND OUTSIDE; MANUFACTURED IN ACCORDANCE WITH USASI SPECIFICATION C80.3, FEDERAL SPECIFICATION WW-C-563, AND U.L. SPECIFICATION 797; U.L. LISTED, WITH EACH LENGTH LABELED.
- D. FLEXIBLE METALLIC CONDUIT SHALL BE SPIRALLY WOUND STEEL STRIP; ZINC GALVANIZED BOTH INSIDE AND OUTSIDE; INTEGRAL GROUND CONDUCTOR; NEOPRENE JACKETED WITH OIL TIGHT FITTINGS IN DAMP AND WET LOCATIONS.

- E. OUTLET BOXES SHALL BE GALVANIZED OR CADMIUM PLATED STEEL OF SIZE, PATTERN AND DEPTH AS REQUIRED; CAST ALUMINUM BOXES SHALL HAVE ONLY HUBS AS REQUIRED FOR THE INSTALLATION; UNITS SHALL HAVE EXTENSION RINGS, RAISED PLASTER COVERS, FIXTURE STUDS, ETC., AS REQUIRED FOR A PROPER INSTALLATION.
 - 1. ACCEPTABLE PRODUCTS SHALL BE RACO, STEEL CITY.
- F. JUNCTION AND PULL BOXES AND WIREWAYS SHALL BE FABRICATED FROM ZINC GALVANIZED SHEET STEEL OF GAUGE AS PER I.E.C.; COVERS SHALL BE SCREW FASTENED AND THOSE OVER 864 SQUARE INCHES SHALL BE SECTIONALIZED; CROSS BRACING AND BARRIERS AS REQUIRED.
 - 1. ACCEPTABLE PRODUCTS SHALL BE KEYSTONE, BOSS, HOFFMAN.
- G. FITTINGS SHALL BE ZINC GALVANIZED OR SHERARDIZED STEEL OR CAST ALUMINUM; USE OIL TIGHT FITTINGS WITH NEOPRENE JACKETED FLEXIBLE METALLIC CONDUIT. EMT FITTINGS SHALL BE STEEL SET-SCREW, OR STEEL COMPRESSION TYPE.
 - 1. ACCEPTABLE PRODUCTS SHALL BE RACO, STEEL CITY, THOMAS & BETTS.

WIRING DEVICES

- A. WIRING DEVICES SHALL BE HEAVY DUTY, U.L. LISTED; THE PRODUCTS OF ONE MANUFACTURER; COLOR AS SELECTED BY THE ARCHITECT FOR EACH RESPECTIVE APPLICATION. COVERPLATES SHALL BE SMOOTH STYLE NYLON, SAME COLOR AS DEVICE. GFCI RECEPTACLES SHALL BE DUPLEX, 20 AMP, 125 VAC, CLASS A-5 MILLIAMPER SENSITIVITY, U.L. LISTED, IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF I.E.C., U.L. AND NEMA.

1. ACCEPTABLE PRODUCTS:	HUBBELL	LEVITON	P & S
TOGGLE SWITCH, 20A., SPECIFICATION GRADE	HBL1220	1220	20AC(1)
RECEPTACLE, DUPLEX 20A., 125 VOLT, SPECIFICATION GRADE	5352	5362	5362

LIGHTING FIXTURES

- A. INSTALLATION OF LIGHTING FIXTURES - CEILING MOUNTED LIGHTING FIXTURES SHALL BE RIGIDLY SUPPORTED FROM THE BUILDING STRUCTURE, EXCEPT AS PERMITTED BY AND IN ACCORDANCE WITH ASTM C630, STATE BUILDING CODE STANDARDS AND CURRENT ELECTRICAL CODE. FASTENERS AND HARDWARE SHALL BE DESIGNED AND APPROPRIATE FOR THE INSTALLATION. JUNCTION BOXES SHALL BE ACCESSIBLE.

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Building & Interior
Design, Engineering,
Construction Management

GERALD SOUTH
REGISTERED
No. 1020281
STATE OF
INDIANA
PROFESSIONAL ENGINEER

Gerald South
Certified By

RENOVATION
CENTERSTONE

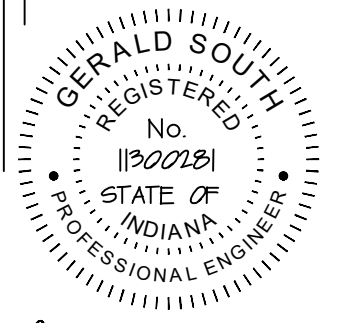
RICHMOND, INDIANA

Project No.... 2926-1
Coordinator.... INERSTRÖT

Date..... 4/5/2019

Revision:
No. Date

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of



Gerald South
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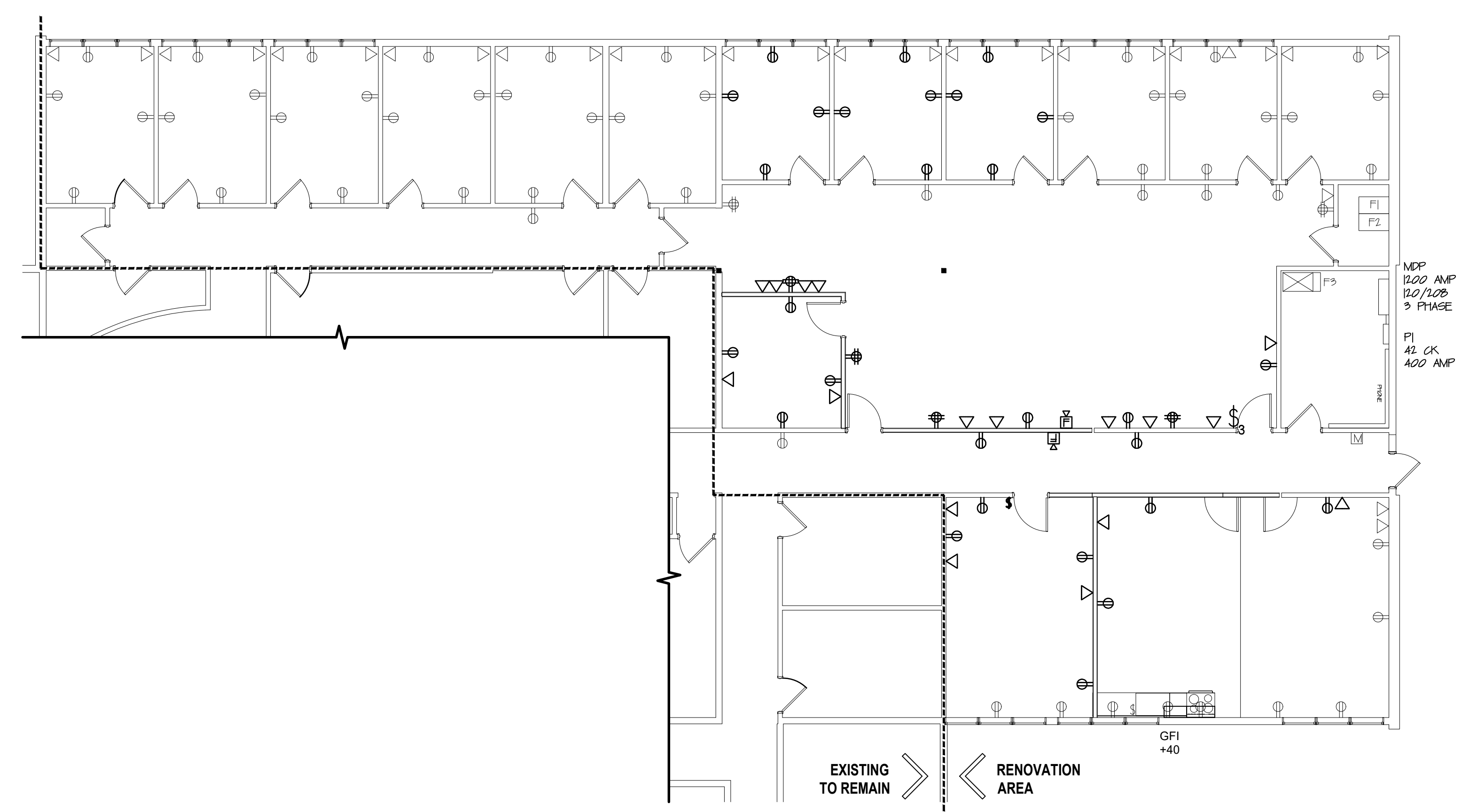
RENOVATION
CENTERSTONE

RICHMOND, INDIANA

Project No. 2326-1
Coordinator.... INERSTRÖT

Date..... 4/5/2015

Revision: No. Date



FIRST FLOOR POWER DEMO PLAN
SCALE: 1/8" = 1'-0"
North

FIRE ALARM KEY

- ☐ EXISTING HORN / STROBE LIGHT
 - ☒ EXISTING MANUAL PULL STATION
 - ☐ NEW HORN / STROBE LIGHT
- REUSE EXISTING DEVICES AS POSSIBLE. CONTRACTOR TO VERIFY FIRE ALARM CONTROL PANEL TYPE.

EXISTING ELECTRICAL DEVICE KEY

- ⊕ QUAD OUTLET
 - ⊕ DUPLEX OUTLET
 - ▽ TELE / DATA BOX
- NOTE AT EXISTING ELECTRICAL DEVICE LOCATIONS PROVIDE NEW DEVICE AND COVER PLATES TO MATCH NEW

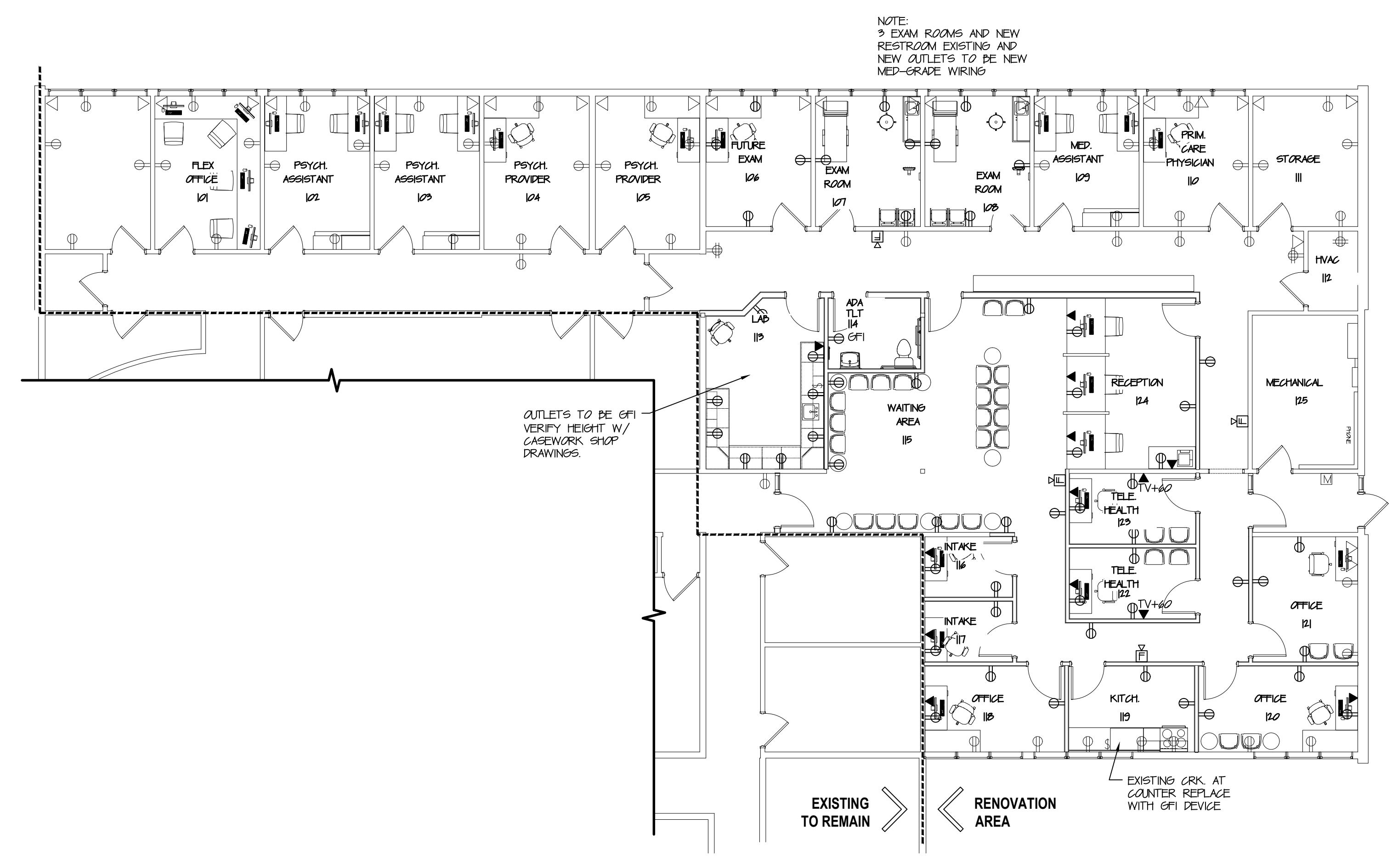
NEW ELECTRICAL DEVICE KEY

- ⊕ QUAD OUTLET
- ⊕ DUPLEX OUTLET
- ▽ TELE / DATA BOX

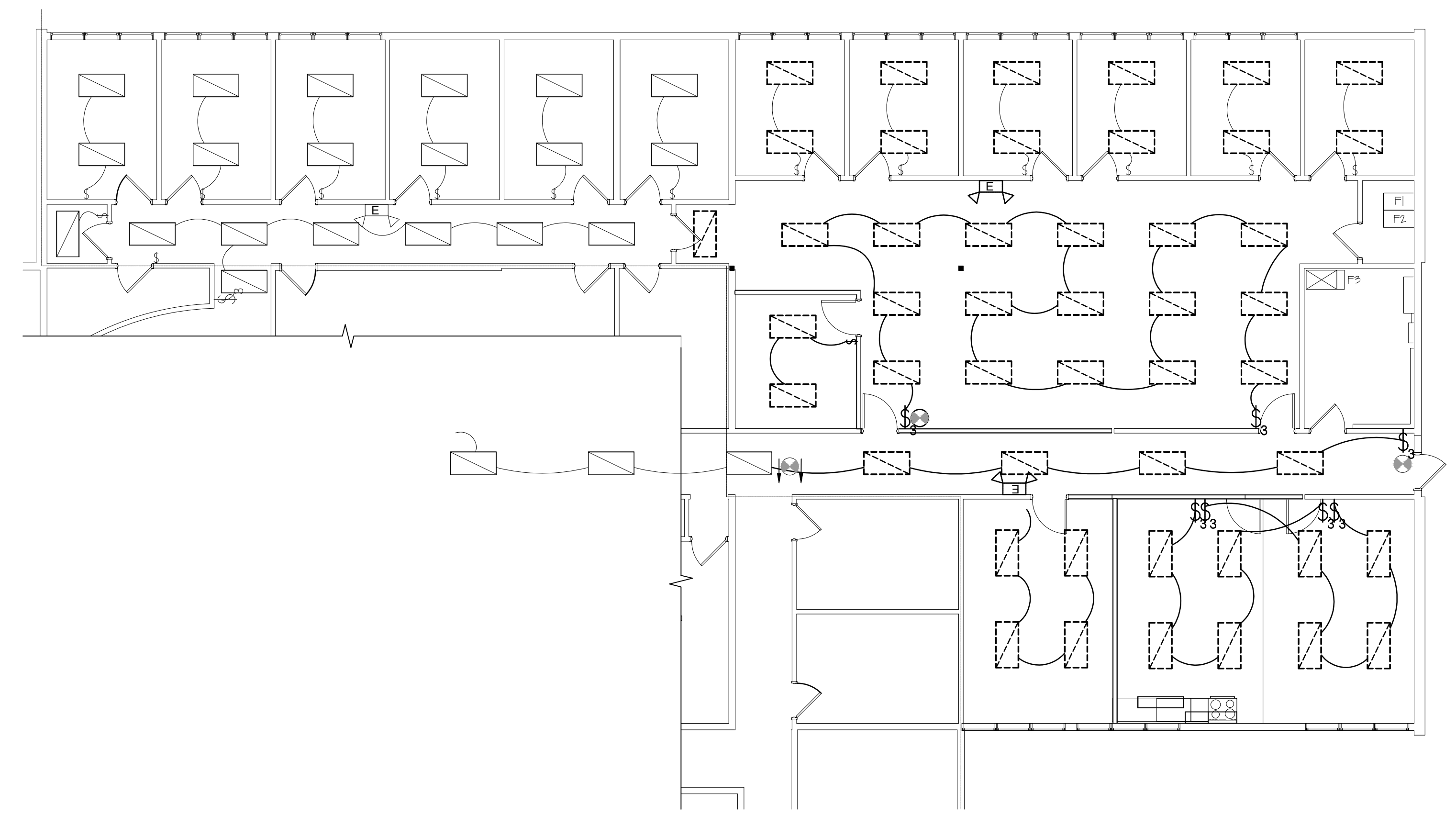
PANEL NOTE:
CONTRACTOR TO REUSE EXISTING PANEL BREAKERS. ADJUST PANEL CIRCUITS AS REQUIRED FOR NEW DEVICES. PROVIDE NEW PANEL SCHEDULE.

EXISTING P1 - 400AMP
120/208
3 PHASE 4 WIRE

PR. CK	PR. CK
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42



FIRST FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"
North



FIRST FLOOR LIGHTING DEMO PLAN
SCALE: 1/8" = 1'-0" North

EXISTING ELECTRICAL DEVICE KEY

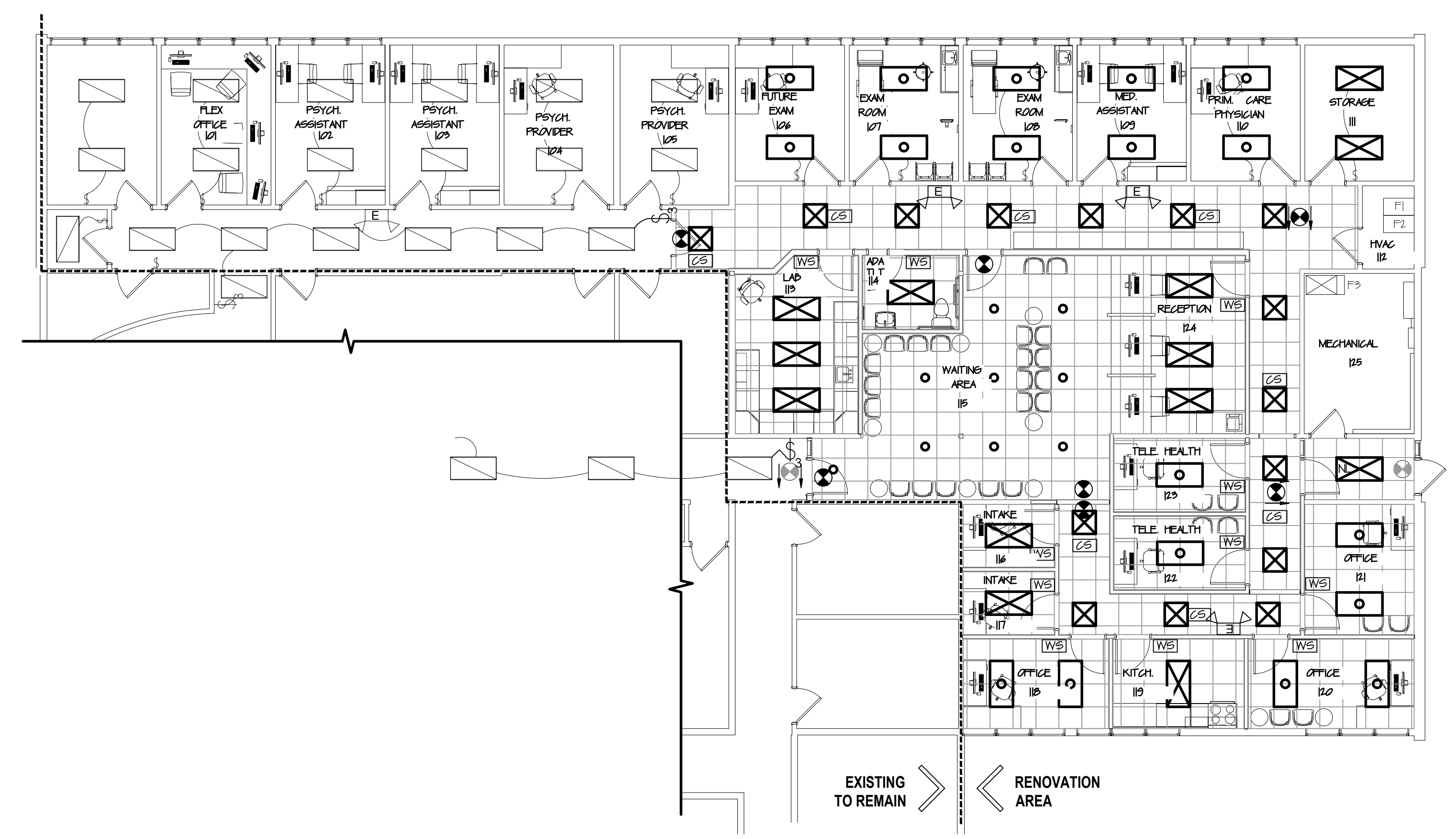
- EXISTING EMERGENCY LIGHT
- EXISTING EXIT LIGHT
- EXISTING 3WAY SWITCH
- EXISTING SWITCH

NEW ELECTRICAL DEVICE KEY

- EMERGENCY LIGHT
- EXIT LIGHT
- 3WAY SWITCH
- SWITCH
- CEILING MOTION LIGHT SENSOR
- WALL MOUNTED MOTION LIGHT SENSOR W/ DIMMER

LIGHT KEY:

- A. 2x4 LED LAY-IN EDGE TO EDGE FLAT PANEL
- B. 2x2 LED LAY-IN EDGE TO EDGE FLAT PANEL
- C. 2x4 LED LAY-IN ARCHITECTURAL
- D. 6" LED CANN LIGHT



FIRST FLOOR LIGHTING
SCALE: 1/8" = 1'-0" North