

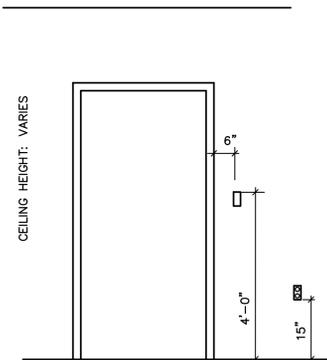
GENERAL NOTES

- GENERAL CONDITIONS
- ALL WORK SHALL COMPLY WITH THE REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION. THE DRAWINGS SHALL BE SUPPLEMENTAL TO ALL LAWS AND CODES OF THE REGULATING BODIES RELATED TO THE BUILDING, AND ALL REGULATIONS SPECIFIED IN THESE REGULATIONS SHALL BE FOLLOWED AS THOUGH SPECIFICALLY NOTED IN THESE DRAWINGS.
 - CONTRACTOR SHALL NOTIFY DESIGNER OF ANY DISCREPANCY BETWEEN THE DRAWINGS, THESE NOTES, AND FIELD CONDITIONS BEFORE SUBMITTING A BID OR COMMENCING ANY WORK AND REQUEST CLARIFICATION.
 - BEFORE SUBMITTING A BID, ALL CONTRACTORS SHALL VISIT THE PREMISES AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND THE SCOPE OF THE WORK AND THE DIFFICULTIES THAT ATTEND ITS EXECUTION.
 - THE SUBMISSION OF A BID SHALL BE CONSTRUCTED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIAL, OR FOR DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.
 - CONTRACTOR SHALL INCLUDE IN HIS ESTIMATE ALL COSTS (INCLUDING OVERTIME WORK) FOR REMOVAL, NEW INSTALLATION AND REINSTALLATION WORK FOR ANY PLUMBING, CEILING (TAKE DOWN AND REINSTALLATION), ELECTRICAL TELEPHONE COMMUNICATION EQUIPMENT OR HVAC WORK ON FLOOR, ABOVE OR BELOW TENANT SPACE TO COMPLETE WORK ON FLOOR BEING RENOVATED.
 - CONTRACTOR AGREES TO PAY ALL VERTICAL AND HORIZONTAL TRANSPORTATION CHARGES ON ALL HIS MATERIAL OR EQUIPMENT TO THE POINT OF USE, AND SHALL BE RESPONSIBLE FOR ALL UNLOADING, CHECKING AND STORING OF SAME IN CONNECTION WITH THIS CONTRACT.
 - CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE TENANT'S SUB-CONTRACTOR(S).
- DRAWINGS AND SPECIFICATIONS
- CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DOCUMENTS ON SITE DURING ALL PHASES OF CONSTRUCTION FOR USE OF ALL TRADES.
 - THE CONTRACTOR UPON ACCEPTANCE AND APPROVAL OF THESE DRAWINGS ASSUMES FULL RESPONSIBILITY FOR THE CONSTRUCTION, MATERIALS AND WORKMANSHIP OF THE WORK DESCRIBED IN THESE NOTES AND DRAWINGS, AND HE WILL BE EXPECTED TO COMPLY WITH THE SPIRIT AS WELL AS THE LETTER IN WHICH THEY WERE WRITTEN.
 - LEGENDS AND NOTES APPEAR ON DRAWINGS TO WHICH THEY RELATE, BUT THEY ARE NOT LIMITED TO THE DRAWING AND ARE APPLICABLE TO ALL CONSTRUCTION DOCUMENTS.
 - IF DOCUMENTS SHOW A DISCREPANCY WITH ONE ANOTHER ON ANY ITEM OR ITEMS, THE CONTRACTOR IS TO BASE HIS BID ON THE MORE COSTLY OF THE CONDITIONS.
- USE OF PREMISES
- LANDLORD/OWNER RULES AND REGULATIONS FOR CONSTRUCTION SHALL APPLY TO ALL WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THEM.
 - CONTRACTOR SHALL CONTACT BUILDING MANAGEMENT TO DETERMINE THE RULES FOR CONSTRUCTION. TO DETERMINE WHEN AND HOW DELIVERIES CAN BE MADE, WHAT PHASES OF CONSTRUCTION CAN BE DONE ON REGULAR OR OVERTIME, AND IN GENERAL, ANY SPECIAL BUILDING REQUIREMENTS WHICH WILL AFFECT HIS WORK. (IF OVERTIME WORK IS REQUIRED BY ANY TRADE, APPROVAL MUST BE OBTAINED PRIOR TO THE EXECUTION OF ANY WORK, INCLUDING COST)
 - CONTRACTOR SHALL MAKE ALL REQUIRED ARRANGEMENTS FOR DELIVERY OF EQUIPMENT AND OR MATERIALS. DATE AND TIME OF DELIVERY SHALL BE ESTABLISHED. BUILDING CONDITIONS INCLUDING SIZE AND LOADING CAPACITY OF ELEVATORS, SIZE OF DOORWAYS, CORRIDORS, WINDOW OPENINGS, ETC. SHALL BE CHECKED FOR ITEMS BEING DELIVERED BY THE CONTRACTOR.
 - ALL SPECIAL "BUILDING STANDARD" METHODS OF CONSTRUCTION SHALL BE CONFIRMED BY THE CONTRACTOR.
 - CONTRACTOR TO PROVIDE ALL NECESSARY PROTECTION FOR FLOORS, WALLS ETC., AND FOR EXISTING ITEMS TO REMAIN. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE INCURRED TO THE SAME BY THE TRADES AND WILL BE HELD RESPONSIBLE FOR ANY DAMAGE INCURRED AND WILL BE OBLIGATED TO REPLACE OR RESTORE TO ITS ORIGINAL CONDITION AS DETERMINED BY THE DESIGNER.
 - WORK REQUIRING ACCESS TO AREAS OF THE BUILDING NOT DIRECTLY PART OF THE LIMITS OF THE CONSTRUCTION SHALL BE SCHEDULED THROUGH AND COORDINATED WITH BUILDING MANAGEMENT.
- LABOR AND MATERIALS
- UNLESS OTHERWISE NOTED, ALL MATERIAL, EQUIPMENT, ETC. SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
 - THE USE OF THE TERM "APPROVED EQUAL" IN CONNECTION WITH ANY ITEM SPECIFIED, IS INTENDED TO MEAN, THAT SUCH WILL BE OF EQUAL QUALITY, FINISH AND MATERIAL. THE SUBSTITUTIONS SHALL BE SUBMITTED, IN WRITTEN FORM, TO DESIGNER FOR APPROVAL.
 - THE TERMS "PROVIDE", OR "PROVIDED" IN CONNECTION WITH ANY ITEM SPECIFIED, IS INTENDED TO MEAN, THAT SUCH SHALL BE FURNISHED, INSTALLED, AND CONNECTED WHERE SO REQUIRED.
 - ALL APPROVALS SHALL BE FOR DESIGN APPEARANCE ONLY, CONTRACTOR SHALL BE RESPONSIBLE FOR QUANTITIES, DIMENSIONS AND COMPLIANCE WITH CONTRACT DOCUMENTS, AND FOR INFORMATION PERTAINING TO THE FABRICATION PROCESS OR TECHNIQUES OF FIRST CLASS CONSTRUCTION AND FOR COORDINATION WITH OTHER TRADES.
 - INSTALL ALL MANUFACTURED ITEMS, MATERIALS, AND EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS. SUBMIT MANUFACTURER'S LITERATURE FOR OPERATIONAL, MAINTENANCE AND WARRANTY TO BUILDING MANAGEMENT UPON COMPLETION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY ARRIVAL OF ALL SPECIFIED FINISH MATERIALS, EQUIPMENT AND FIXTURES TO BE UTILIZED ON THIS PROJECT. CONTRACTOR SHALL NOTIFY DESIGNER IN WRITING WITHIN 3 DAYS OF AWARD OF CONTRACT OF ANY SPECIFIED ITEMS THAT MAY NOT BE READILY AVAILABLE. IF NOTIFICATION IS NOT RECEIVED THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR PROPER ORDERING AND FOLLOW-UP OF SPECIFIED ITEMS AND WILL PURSUE WHATEVER MEANS NECESSARY, AT NO ADDITIONAL COST TO THE TENANT OR LANDLORD TO ENSURE AVAILABILITY OF ALL SPECIFIED ITEMS.
- APPLICABLE CODES
- CONTRACTOR SHALL SECURE AND PAY FOR THE BUILDING PERMIT AND ALL OTHER PERMITS AND FEES, CONTROLLED INSPECTIONS, SIGNOFFS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK WHICH ARE CUSTOMARILY SECURED AFTER EXECUTION OF THE CONTRACT AND WHICH ARE LEGALLY REQUIRED.
 - CONTRACTOR SHALL NOTIFY DESIGNER IN WRITING IF ANY PART OF THE CONTRACT DOCUMENTS IS OBSERVED TO BE AT VARIANCE WITH CODES.
 - ALL WORK SHALL COMPLY WITH ADA AND TDLR - TEXAS ACCESSIBILITY STANDARDS.
- CUTTING AND PATCHING
- DO NOT CUT AND PATCH STRUCTURAL ELEMENTS IN A MANNER THAT WOULD CHANGE THEIR LOAD-CARRYING CAPACITY OR LOAD-DEFLECTION RATIO.
 - DO NOT CUT OR PATCH OPERATING ELEMENTS OR RELATED COMPONENTS IN A MANNER THAT WOULD RESULT IN REDUCING THEIR CAPACITY TO PERFORM AS INTENDED. DO NOT CUT AND PATCH OPERATING ELEMENTS OR RELATED COMPONENTS IN A MANNER THAT WOULD RESULT IN INCREASES IN MAINTENANCE OR DECREASED OPERATIONAL LIFE OR SAFETY.

ABBREVIATIONS

A	ADJ AFF ALT APPROX AUTO	ADJUSTABLE ABOVE FINISHED FLOOR ALTERNATE APPROXIMATE AUTOMATIC	FURR FUT	FURRING FUTURE	PLMG PLY PR PTR	PLUMBING PLYWOOD PAIR PRINTER	
B	BD BLDG BLKG BLW	BOARD BUILDING BLOCKING BELOW	G	GALV GC GYP	GALVANIZED GENERAL CONTRACTOR GYPSUM BOARD	Q QT	QUARRY TILE
C	CAB CL CLG CLR CO COL CONC CONF CORR CPT CT CTR CW	CABINET CENTERLINE CEILING CLEAR CASED OPENING COLUMN CONCRETE CONFERENCE CORRIDOR CARPET CERAMIC TILE CENTER COLD WATER	H HM HDWR HT HVAC	HOLLOW METAL HARDWARE HEIGHT HEATING, VENTILATION AIR CONDITIONING	R REF REQD RM RO	REFERENCE REFRIGERATOR REQUIRED ROOM ROUGH OPENING	
D	DEMO DIA DIM DISP DN DWG	DEMOLITION DRINKING FOUNTAIN DIAMETER DIMENSION DISPENSER DOWN DRAWING	I INSUL INT ISO	INSULATION INTERIOR ISOLATION	S SCHD SECY SF SIM SQ SQ YD SS STD STG	SCHEDULED SECRETARY SQUARE FOOT SIMILAR SQUARE SQUARE YARD STAINLESS STEEL STANDARD STORAGE	
E	E EF ELEC ELEV EMERG ENCL ENTR EQ EQUIP EWC	EXISTING EXISTING EXHAUST FAN ELECTRICAL ELEVATOR EMERGENCY ENCLOSURE ENTRANCE EQUIPMENT ELEC. WATER COOLER	J JAN JB	JANITOR JUNCTION BOX	T TAS TELE TV TYP	TEXAS ACCESSIBILITY STANDARDS TELEPHONE TELEVISION TYPICAL	
F	FE FLR	FIRE EXTINGUISHER FLOOR	L LAV LIN	LAVATORY LINEAR	U U/L	UNO UNLESS NOTED OTHERWISE UPPER/LOWER CABINETS	
M	MFRG MIN MIR MISC MTD	MANUFACTURER MINIMUM MIRROR MISCELLANEOUS MOUNTED	N NA NIC NRC NTS	NOT APPLICABLE NOT IN CONTRACT NOISE REDUCTION COEFFICIENT NOT TO SCALE	V VWC	VINYL WALLCOVERING	
O	OC OFF OH OPNG	ON CENTER OFFICE OPPOSITE HAND OPENING	P PB PED PLAM	PUSHBUTTON PEDESTAL PLASTIC LAMINATE	W W/ W/ W/O WC WC WD WH WP	WIDTH WITH WITHOUT WATER CLOSET WALLCOVERING WOOD WATER HEATER WATERPROOF	

TYPICAL MOUNTING HEIGHTS



DRAWING SYMBOLS

CONFERENCE	ROOM NAME	1	KEYNOTE
502	ROOM NUMBER	ALIGN	
B	DOOR TYPE		
2	HARDWARE TYPE		
12	ELEVATION NUMBER	1	SECTION NUMBER
A4.1	DRAWING NUMBER	A2.2	DRAWING NUMBER

SHEET INDEX

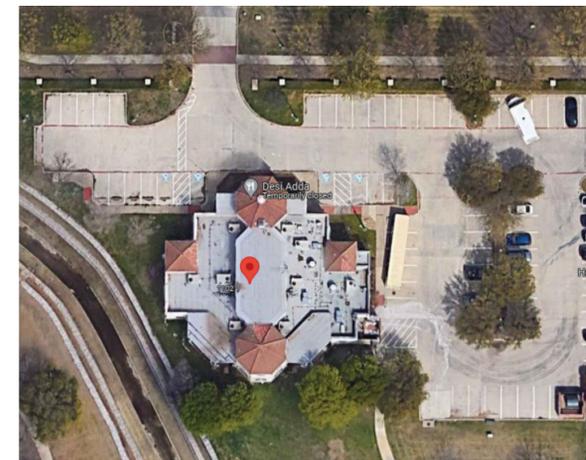
ARCHITECTURAL	MEP
A11.1 GENERAL INFORMATION	M0.0 MECHANICAL COVER SHEET
A11.2 LIFE SAFETY PLAN	M2.1 MECHANICAL FLOOR PLAN
A12.1 DEMOLITION PLAN	M2.2 MECHANICAL ROOF PLAN
A12.2 CONSTRUCTION PLAN	M3.1 MECHANICAL SCHEDULES
A12.3 HARDWARE PLAN	M4.1 MECHANICAL DETAILS
A12.4 POWER PLAN	M4.2 MECHANICAL DETAILS
A12.5 CEILING PLAN	E0.0 ELECTRICAL COVER SHEET
A12.6 FINISH PLAN & SCHEDULES	E2.1 LIGHTING PLAN
A14.1 ELEVATIONS & MILLWORK SPECIFICATIONS	E3.1 POWER PLAN
A14.2 ELEVATIONS & EXAM ROOM LAYOUTS	E3.2 ELECTRICAL ROOF PLAN
	E5.1 ELECTRICAL RISER & SCHEDULES
	E5.2 ELECTRICAL SCHEDULES
	E8.1 NURSE CALL SYSTEM PLAN
	P0.0 PLUMBING COVER SHEET
	P2.0 PLUMBING UNDERFLOOR PLAN
	P2.1 PLUMBING PLAN
	P2.2 PLUMBING ROOF PLAN
	P3.1 PLUMBING SCHEDULES
	P4.1 PLUMBING DETAILS
	P5.1 PLUMBING RISER DIAGRAMS-WATER
	P5.2 PLUMBING RISER DIAGRAMS-SANITARY
	P5.3 PLUMBING RISER DIAGRAM-NATURAL GAS

VICINITY PLAN



1110 KELLER PARKWAY
KELLER, TX. 76248

SITE PLAN



PROJECT SCOPE

INTERIOR RENOVATIONS TO A ~7,200 SF BUILDING TO MODIFY IT FOR AN OUT PATIENT PHYSICIAN OFFICES. ADDITIONAL INFORMATION ON SHEET A11.2

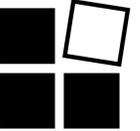
THIS IS AN OUT PATIENT CARE FACILITY WHERE PATIENTS WILL NOT BE RENDERED INCAPABLE OF SELF-PRESERVATION. FACILITY WILL NOT PROVIDE SERVICES FOR PATIENTS WHO REQUIRE ANESTHESIA SERVICES. THERE ARE NO MORE THAN 3 E-CLASS COMPRESSED GAS CYLINDERS STORED FOR MEDICAL USE AT ANY GIVEN TIME.

CODE INFORMATION

REFERENCE SHEET A11.2

PROJECT TEAM

DESIGNER:	TENANT
THE DAWLEY GROUP 280 E. OAKVIEW PLACE SAN ANTONIO, TEXAS 78209	WELMED 19500 IH-10 WEST SAN ANTONIO, TX. 78257
CONTACT: GINGER DAWLEY PHONE: 210.241.9392 FAX: [REDACTED] EMAIL: [REDACTED]	CONTACT: JESSICA VILLARREAL PHONE: 210.774.3783 CELL: 210.860.0348 EMAIL: [REDACTED]
BUILDING MANAGER	MEP ENGINEER
- - -	WYLIE CONSULTING ENGINEERS 9050 N. CAPITAL OF TEXAS HWY STE 365 AUSTIN, TX. 78759
CONTACT: - PHONE: - FAX: - EMAIL: -	CONTACT: CRAIG LUSINGER PHONE: 512.888.9945 FAX: 713.781.2536 EMAIL: [REDACTED]



The Dawley Group

Interior planning & design

280 E. Oakview Pl. San Antonio
Texas 78209
210-241-9392

SEALS



6.3.24

PROJECT

WELMED CLINIC

AT

KELLER
1110 KELLER PARKWAY
KELLER, TX. 76248

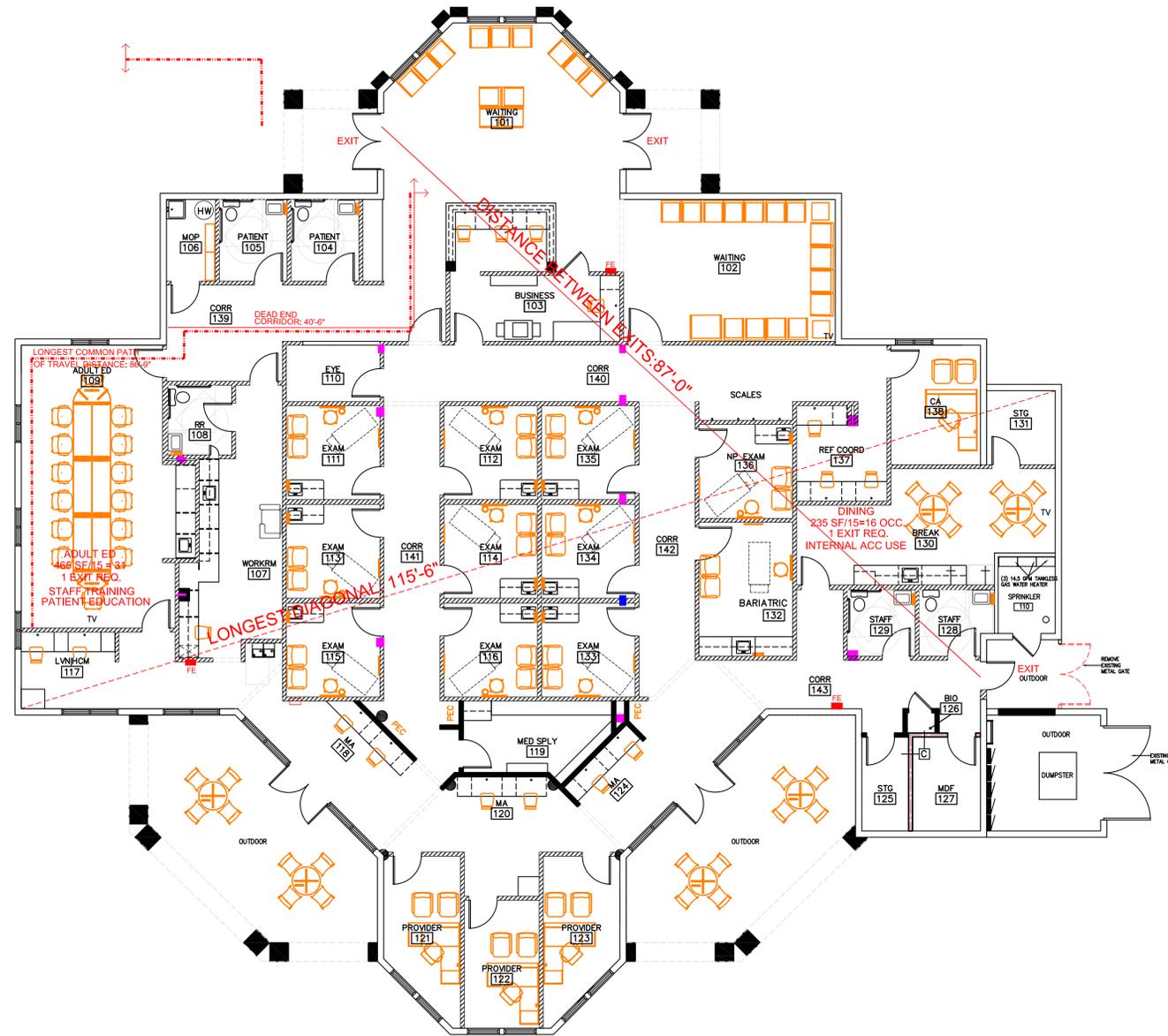
SHEET TITLE

GENERAL INFORMATION

PROJECT NO: WTX07J
DATE: 6.3.24
REVISION DATES:

SHEET NUMBER

A11.1



01 LIFE SAFETY PLAN
1/8"=1'-0"

GENERAL INFORMATION

APPLICABLE CODES WITH KELLER LOCAL AMENDMENTS
 2021 INTERNATIONAL BUILDING CODE
 2021 INTERNATIONAL FIRE CODE
 2021 INTERNATIONAL MECHANICAL CODE
 2020 NATIONAL ELECTRIC CODE
 2021 INTERNATIONAL PLUMBING CODE
 2018 INTERNATIONAL ENERGY CONSERVATION CODE

EXISTING BASE BUILDING INFORMATION
 BUILDING USAGE: OFFICE(B)
 BUILDING FLOOR AREA: 7,182 SF
 BUILDING HEIGHT: 1 STORY
 BUILDING CONSTRUCTION TYPE: V-B

BUILDING IS FULLY SPRINKLERED WITH A MONITOR ONLY FIRE ALARM SYSTEM
 EXIT AND EMERGENCY LIGHTING TO BE PROVIDED PER CODE.

BUILDING CLASSIFICATION

TENANT OCCUPANCY GROUP FOR THIS LEASE AREA:
 OCCUPANCY LOAD: 150 SF PER OCCUPANT AT CLINIC AREAS
 15 SF PER OCCUPANT AT ADULT ED ROOM

SPRINKLER SYSTEM

SPRINKLER PLAN FOR TENANT PORTION SHALL BE SUBMITTED
 BY CONTRACTOR'S LICENSED DESIGN COMPANY UNDER A SEPARATE PERMIT
 AS REQUIRED BY FIRE DEPARTMENT. FIRE SPRINKLER MONITORING SYSTEM IS
 REQUIRED AND SHALL BE SUBMITTED BY CONTRACTOR UNDER A SEPARATE PERMIT.

FACILITIES USE

THIS LEASE AREA IS A CLINIC-OUTPATIENT, NOT AN AMBULATORY HEALTH
 CARE FACILITY. PATIENTS ARE NOT RENDERED INCAPABLE OF SELF
 PRESERVATION. THERE WILL BE NO MEDICAL GASES IN THIS LEASE AREA.

FLAME SPREAD INDEX FOR ALL WALL AND CEILING MATERIALS ARE COMPLIANT
 WITH 2018 IBC TABLE 803.11

OCCUPANT LOAD CALCULATIONS:

GROSS LEASE AREA S.F.: 6,850 USF (INSIDE FACE)

ADULT EDUCATION 109: 465 SF/15 = 31 OCC.
 BUSINESS USE: 6,385 SF/150 = 43 OCC

74 OCCUPANTS: TOTAL OCCUPANT LOAD

EXIT REQUIREMENTS

NUMBER OF EXITS: 2 REQUIRED - 3 PROVIDED

DISTANCE BETWEEN EXITS: 1/3 LONGEST DIAGONAL
 115'-6"/3 = 38'-6" FEET MIN. REQUIRED : 87'-0" PROVIDED

MAX. DEAD END CORRIDOR ALLOWED: 50 FT - 40'-6" PROVIDED

MAX. COMMON PATH OF TRAVEL ALLOWED: 100 FT - 86'-9" PROVIDED

MAX. TRAVEL DISTANCE ALLOWED: 300 FT

EXIT WIDTH REQUIRED: 74 occupants X .2 = 14.8" Minimum
 EXIT WIDTH PROVIDED: 5 Exits X 32" = 160"

PLUMBING FIXTURE CALCULATIONS

74 TOTAL OCCUPANTS - 37 MEN 37 WOMEN

TOILETS: (PER SEX)
 2 REQUIRED FOR FIRST 50, 1 PER 50 FOR THE REMAINDER EXCEEDING 50
 4 TOILETS REQUIRED- 5 TOILETS PROVIDED
 LAVATORIES: (PER SEX)
 2 REQUIRED FOR FIRST 80, 1 PER 80 FOR THE REMAINDER EXCEEDING 80
 4 LAVATORIES REQUIRED- 5 LAVATORIES PROVIDED

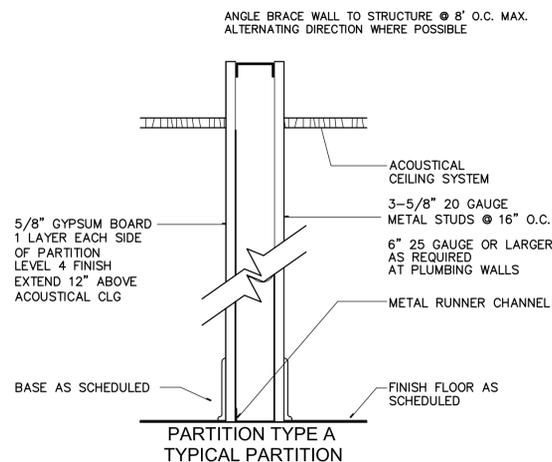
MOP SINK PROVIDED IN JANITOR CLOSET RM 106 - 1 TOTAL
 DRINKING FOUNTAIN PROVIDED IN CORRIDOR 118

COLD WATER LINES FOR WATER DISPENSERS ARE SPECIFIED FOR WAITING
 ROOM AND EMPLOYEE BREAK ROOM

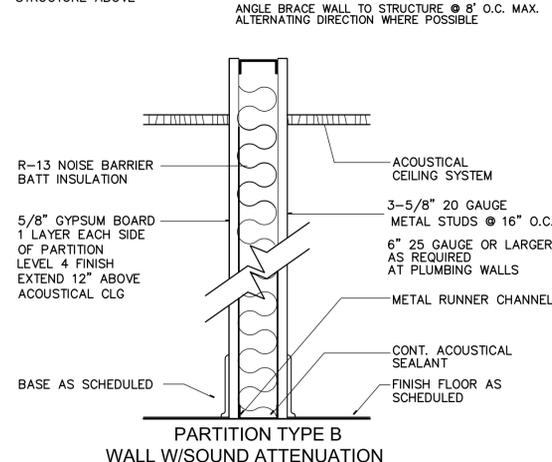
PARTITION TYPES

ALL PARTITIONS SHALL BE TYPE B - UNLESS NOTED OTHERWISE

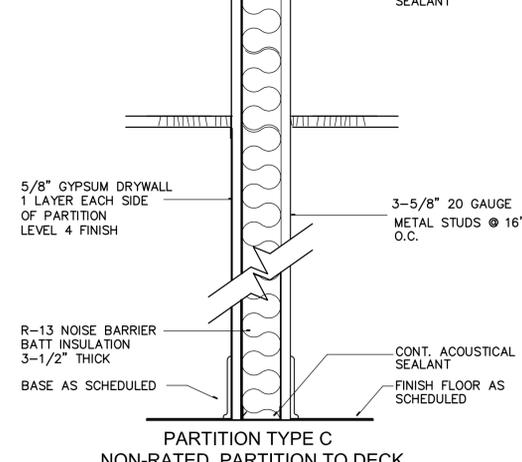
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STRUCTURE ABOVE



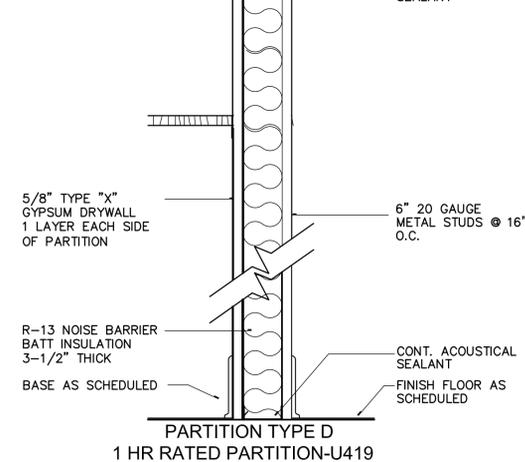
UNDERSIDE OF
STRUCTURE ABOVE



UNDERSIDE OF
STRUCTURE ABOVE



UNDERSIDE OF
STRUCTURE ABOVE



NOT ALL TYPES USED



The Dawley Group

Interior planning & design

280 E Oakview Pl. San Antonio
 Texas 78209
 210-241-9392



6.3.24



PROJECT

WELLMED CLINIC

AT

KELLER
 1110 KELLER PARKWAY
 KELLER, TX 76248

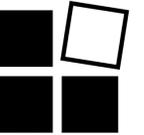
SHEET TITLE

LIFE SAFETY PLAN

PROJECT NO: WTX07J
 DATE: 06.03.24
 REVISION DATES:

SHEET NUMBER

A11.2



The Dawley Group

Interior planning & design

280 E Oakview Pl San Antonio
Texas 78209
210-241-9392

SEALS



6.3.24



PROJECT

WELLMED CLINIC

AT

KELLER
1110 KELLER PKWY
KELLER, TX 76248

SHEET TITLE

DEMOLITION PLAN

PROJECT NO: WTX07J
DATE: 6.3.24
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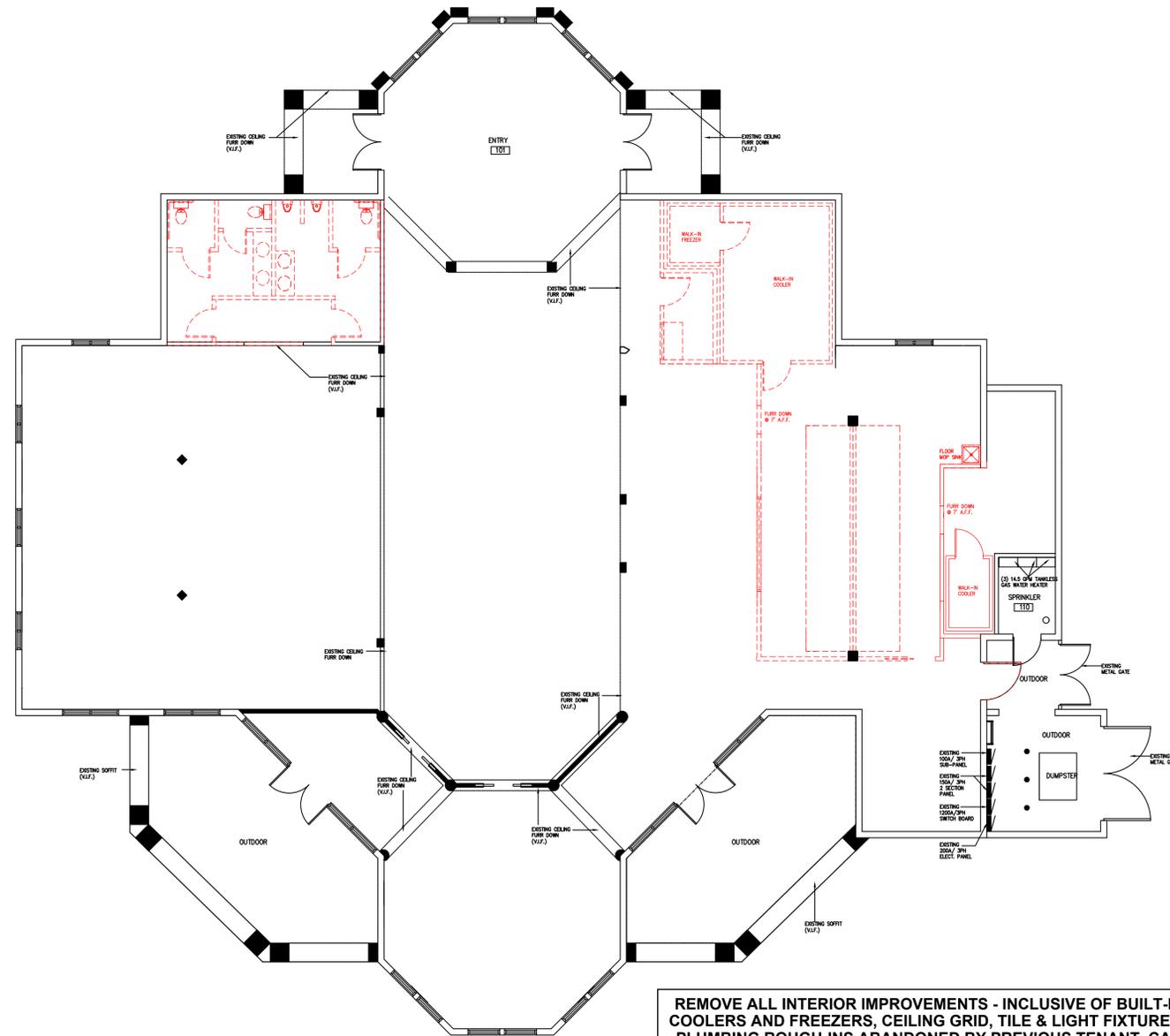
A12.1

GENERAL NOTES - DEMOLITION

1. CONTRACTOR SHALL SUBMIT HIS PROPOSAL BASED ON EXECUTING ALL WORK WITHIN THE REGULATIONS OF THE BUILDING FOR DEMOLITION.
2. CONTRACTOR SHALL REMOVE ALL EXISTING WALLCOVERING, BASE AND FLOORING. PREPARATION FOR NEW FINISHES IS NOT IN SCOPE.
3. DURING ANY REQUIRED DEMOLITION OF DESIGNATED AREAS, CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY PROTECTION AND SHALL SECURE ADJACENT AREAS FROM DUST AND DEBRIS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING PLUMBING AND ELECTRICAL WORK WHERE ITEMS ARE REMOVED, BY DEAD-ENDING PIPING AND WIRES IN A SAFE, CODE COMPLIANT AND PERMANENT MANNER.
5. ALL EXISTING WORK DESIGNATED FOR REMOVAL SHALL BE LEGALLY DISPOSED OF, OFF SITE, BY THE CONTRACTOR. "REMOVE" SHALL MEAN COMPLETELY AND ENTIRELY FROM THE BUILDING, WHERE APPLICABLE, MILLWORK, APPLIANCES AND EQUIPMENT SHALL REMAIN THE PROPERTY OF THE LANDLORD.
6. CONTRACTOR SHALL CAREFULLY REMOVE ALL ITEMS WHICH CAN BE REUSED IN THE NEW CONSTRUCTION OF THIS PROJECT. THE MATERIALS SHALL BE STORED IN A SAFE LOCATION. ALL BLDG STD ITEMS NOT SCHEDULED FOR REUSE SHALL BE RETURNED IN GOOD CONDITION TO THE BUILDING'S STOCKPILE.
7. BAG AND PROTECT ALL EXISTING WINDOW COVERINGS.
8. IF ANY MATERIALS SUSPECTED OF CONTAINING ASBESTOS ARE UNCOVERED DURING REMOVAL OR CONSTRUCTION WORK, NOTIFY THE LANDLORD IN WRITING. THE OWNER IS RESPONSIBLE TO DETERMINE THE EXTENT OF THE AFFECTED AREA, AND ARRANGE FOR IT TO BE SEALED OFF UNTIL INVESTIGATION, AND ASBESTOS REMOVAL IF NECESSARY, HAS BEEN COMPLETED IN ACCORDANCE WITH EPA REQUIREMENTS. WORK IN OTHER AREAS, DETERMINED BY THE OWNER TO BE ASBESTOS-FREE, SHALL CONTINUE WHILE THIS IS BEING DONE. INVESTIGATION AND ABATEMENT OF ASBESTOS WILL BE DONE UNDER A SEPARATE CONTRACT BY THE OWNER AND IS NOT INCLUDED IN WORK OF THIS CONTRACT.
9. REMOVE UNUSED OUTLETS AND THEIR ASSOCIATED WIRING LOCATED IN WALLS SCHEDULED TO BE REMOVED. REMOVE CONDUIT AND WIRING BACK TO NEAREST JUNCTION BOX OR TO NEAREST HOT OUTLET WHICH REMAINS.
10. ALL EXCESSIVE CABLING, WIRING AND DEAD POWER OUTLETS TO BE REMOVED.

SYMBOL LEGEND

-  EXISTING DOOR TO BE REMOVED
-  EXISTING PARTITION TO BE REMOVED
-  EXISTING PARTITION TO REMAIN

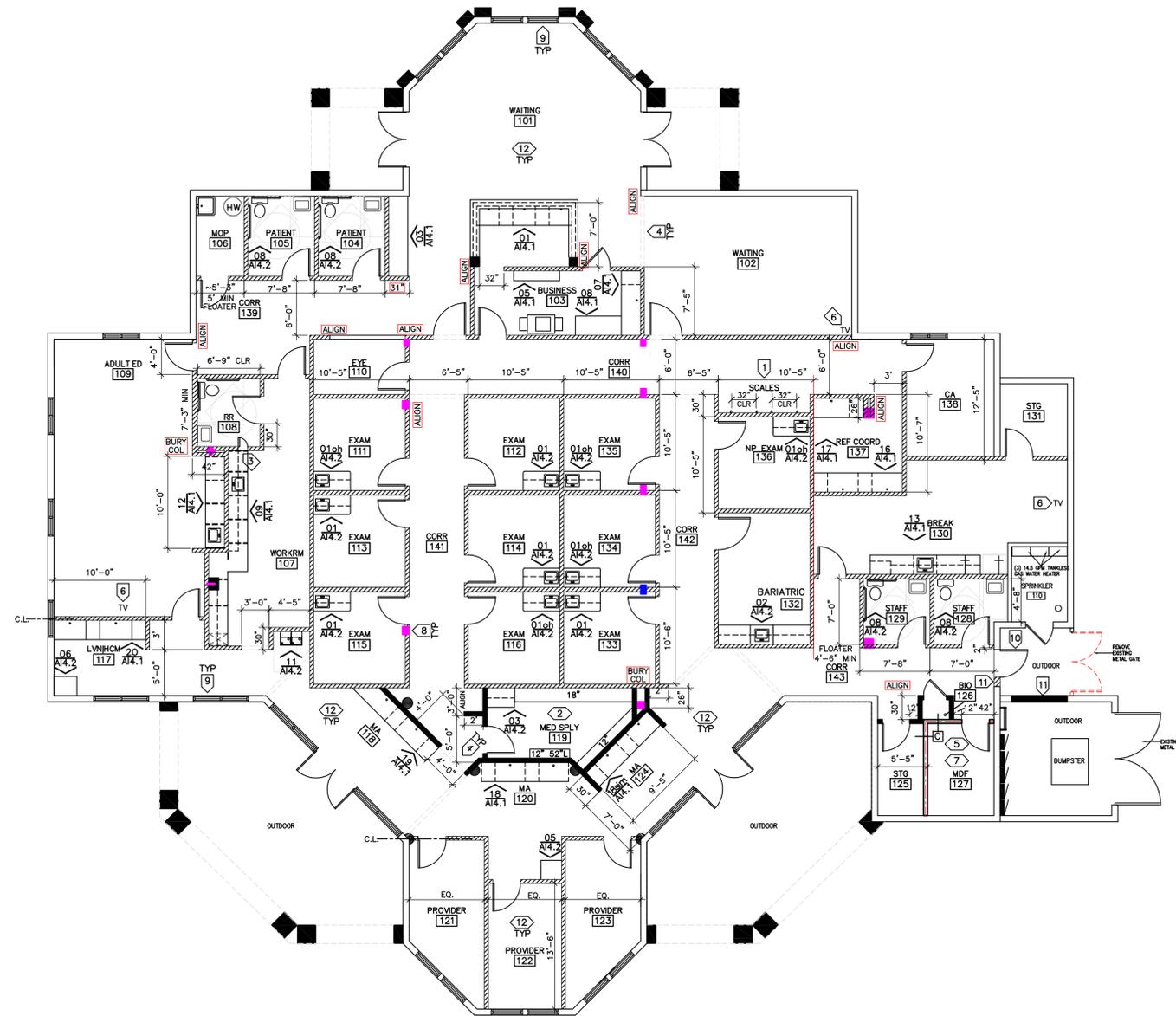


REMOVE ALL INTERIOR IMPROVEMENTS - INCLUSIVE OF BUILT-IN COOLERS AND FREEZERS, CEILING GRID, TILE & LIGHT FIXTURES . PLUMBING ROUGH-INS ABANDONED BY PREVIOUS TENANT. CAP ANY PLUMBING BACK AT SOURCE. FIELD VERIFICATION REQUIRED. ALL COLUMNS AND LOAD BEARING WALLS TO REMAIN.

01 DEMOLITION PLAN

1/8"=1'-0"





01 CONSTRUCTION PLAN
1/8"=1'-0"

CEILING HEIGHTS
ALL CLINIC AREAS SHALL BE 9'-0" U.N.O. WAITING ROOM ROTUNDA SHALL BE 16'-0" AFF DUE TO WINDOW HEIGHT. PROVIDER OFFICES IN REAR ROTUNDA SHALL BE 9'AFF. PROVIDE BLACK OUT FILM ON WINDOWS ABOVE THAT HEIGHT. RESTROOM CEILING HT SHALL BE 8'-5".

SUPERINTENDENT RESPONSIBLE FOR CHALKING WALL LOCATIONS SHALL CONTACT DESIGNER AT 210.241.9392 PRIOR TO CHALKING. PLEASE HAVE THIS SHEET IN FRONT OF YOU WHEN YOU CALL.

MDF ROOM SHALL BE COMPLETED PRIOR TO THE BALANCE OF THE LEASE AREA. COORDINATE WITH TENANT DURING PROJECT SCHEDULING. OUTLETS INSTALLED - BUT NOT HOT-FINISHES COMPLETE.

PROVIDE BLOCKING FOR ALL WALL MOUNTED CABINETS.

PROVIDE & INSTALL MANUAL ROLLER SHADES AT ALL EXTERIOR WINDOWS

PROVIDE R-25 BLOWN IN FOAM INSULATION AT ROOF DECK

CONCRETE POUR BACKS

- LEAVE OUT POUR BACKS AND SAW CUT POUR BACKS SHALL BE LEVEL WITH EXISTING SLAB.
- CONCRETE SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318, LATEST EDITION, DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS SHALL COMPLY WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315).
- STRUCTURAL CONCRETE FOR BUILDING SLAB-ON-GRADE SHALL BE NORMAL WEIGHT AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI. USE GRAY PORTLAND CEMENT CONFORMING TO ASTM C 150 TYPE I. MINIMUM CEMENT CONTENT SHALL BE 4 SACKS PER CUBIC YARD. MAXIMUM WATER CEMENT RATIO SHALL BE 0.50. MAXIMUM SLUMP SHALL BE 5 INCHES. MAXIMUM AGGREGATE SIZE SHALL BE 1-1/2". PROVIDE 4 TO 6 PERCENT AIR-ENTRAINMENT, CONFORMING TO ASTM C 260. CHEMICAL ADMIXTURES SHALL CONFIRM TO ASTM C 494, TYPE A.D OR E. IF FLYASH IS TO BE USED IN THE CONCRETE MIX, IT SHALL BE INCLUDED IN THE MIX DESIGN SUBMITTAL. THE AMOUNT OF FLASH USED SHALL BE NO GREATER THAN 15 TO 20 PERCENT BY WEIGHT OF THE SPECIFIED CEMENT. IN NO CASE SHALL THE PORTLAND CEMENT CONTENT OF THE MIX BE LESS THAN 4 SACKS PER YARD. CONCRETE SHALL NOT BE PLACED PRIOR TO APPROVAL OF THE CONCRETE MIX DESIGN BY THE ENGINEER.
- CURING MAY BE ACCOMPLISHED WITH A LIQUID CURING COMPOUND CONFORMING TO ASTM C309. LIQUID CURING COMPOUNDS SHALL BE APPLIED IN THE FOLLOWING MANNER: APPLY TO ALL EXPOSED SURFACES AT RIGHT ANGLES TO THE FIRST APPLICATION. LIQUID CURING COMPOUND SHALL CONTAIN A FUGITIVE DYE THAT WILL CHANGE TO A CLEAR FINISH AT THE END OF THE CURING PERIOD. TO CONTROL SLAB TEMPERATURE DURING THE INITIAL 7 DAYS OF CURING, APPLICATION OF WATER BY SPRINKLER AND MOISTURE RETAINING COVERS WILL BE REQUIRED AS DIRECTED BY ENGINEER.
- PROVIDE A 10 MIL VAPOR BARRIER BENEATH THE BUILDING SLAB CONFORMING TO ASTM E-1745, CLASS C. LAP ALL JOINTS A MINIMUM OF 6 INCHES AND SEAL PER MANUFACTURERS RECOMMENDATIONS. USE PREFABRICATED PIPE BOOTS AND SUITABLE SEALING TAPE TO SEAL ALL PENETRATIONS THROUGH THE VAPOR BARRIER. VAPOR BARRIER SHALL BE AS MANUFACTURED BY STEGO INDUSTRIES, VAPOR BLOCK OR APPROVED SUBSTITUTE.
- SELECT NON-EXPANSIVE FILL MATERIAL SHALL CONFIRM TO ANY OF THE FOLLOWING SPECIFICATIONS:
 - A SELECT NON-EXPANSIVE FILL MATERIAL SHALL BE SOIL CLASSIFIED BY THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) IN ACCORDANCE WITH ASTM D2487 AS A SC, GC OR CL SOIL (OR A COMBINATION OF THESE MATERIALS). SELECT NON-EXPANSIVE FILL MATERIAL SHALL HAVE A PLASTICITY INDEX BETWEEN 7 AND 18, AND A MAXIMUM LIQUID LIMIT OF 40 AND SHALL HAVE A MAXIMUM PARTIAL SIZE OF 2".
 - B. SELECT NON-EXPANSIVE FILL SHALL CONFORM TO TXDOT ITEM 247, FLEXIBLE BASE, TYPE A, GRADES 1 OR 2.
- SELECT NON-EXPANSIVE FILL SHALL BE USED FOR ALL FILL BENEATH THE EXPOSED SURFACE SHALL BE PROOF-ROLLED WITH A HEAVY RUBBER TIED ROLLER WEIGHING AT LEAST 25 TONS. ANY SOFT OR WEAK AREAS SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT NON-EXPANSIVE FILL COMPACT SUBGRADE TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698.THE BUILDING.

GENERAL NOTES - CONSTRUCTION

- CORNER BEADS SHALL BE INSTALLED ON ALL CORNERS AND SHALL BE SPACKLED SMOOTH WITH ADJACENT AREA.
- STUD SIZE SHALL BE PER MANUFACTURER'S SPECIFICATION FOR HEIGHT, GAUGE AND SPACING UNLESS NOTED OTHERWISE.
- PARTITIONS SHALL NOT BE FASTENED OR BRACED TO DUCTWORK, CONDUIT OR PIPING.
- WHERE SLAB TO SLAB PARTITIONS CONFLICT WITH BUILDING DUCTWORK, CONTRACTOR SHALL BOX AROUND DUCTS WITH SAME WALL TYPE AND PROVIDE ACCESS PANELS WHERE REQUIRED.
- CONTRACTOR SHALL PATCH ALL HOLES IN EXISTING WALLS TO REMAIN.
- PROVIDE SEM-RECESSED PORTABLE 2A 10BC FIRE EXTINGUISHERS. COORDINATE EXACT LOCATIONS WITH TENANT AND FIRE DEPARTMENT.
- CONTRACTOR SHALL LAY OUT ENTIRE SPACE BY MEANS OF CHALK LINES ON THE FLOOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION OF PARTITIONS. NOTIFY DESIGNER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION OF PARTITIONS FOR RESOLUTION OF ANY PROBLEM AREAS.
- PARTITIONS SHALL BE PLUMB, LEVEL, TRUE AND STRAIGHT. SURFACES SHALL BE SMOOTH AND FREE OF FLAWS & DEFECTS. ALL TAPING AND SPACKLING SHALL BE SANDED DOWN AND PREPARED SO THAT LOCATION OF JOINT AND BLEMISHES CAN NOT BE DETECTED AFTER WALL FINISH IS APPLIED.
- EXISTING WALLS SHOWN TO REMAIN SHALL BE PREPARED TO ACCEPT SCHEDULED FINISH. ANY DAMAGED SURFACES SHALL BE REPAIRED WITHIN BASE CONTRACT.
- ALL PARTITIONS ABUTTING THE EXTERIOR CURTAIN WALL SHALL BE LOCATED ON COLUMNS OR MULLION CENTERLINES, U.N.O.
- "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE FINISHED FACES IN THE SAME PLANE. INSTALL NEW CONSTRUCTION REQUIRED TO ALIGN WITH EXISTING CONSTRUCTION WITHOUT ANY VISIBLE JOINTS OR SURFACE IRREGULARITIES.
- PROVIDE FULL HT. NON-COMBUSTIBLE WOOD STUD BLOCKING AT ALL ADJ. SHELF LOCATIONS, AND OTHER LOCATIONS AS NOTED ON PLANS.
- WHERE A PARTITION IS SHOWN IN ALIGNMENT WITH MORE THAN ONE COLUMN OR ELEMENT WHICH ARE NOT ALIGNED, CONTRACTOR SHALL CONSULT WITH DESIGNER FOR CLARIFICATION.
- PARTITIONS CENTERED ON GLASS MULLIONS SHALL HAVE A NEOPRENE GASKET BETWEEN WALL AND WINDOW MULLION, SEALED WITH ACOUSTICAL SEALANT.
- ALL DOOR RETURNS FOR NEW DOORS TO BE 6" FROM FACE OF PERPENDICULAR OR ADJACENT WALL CORNER.
- ALL NEW DOORS SHALL BE INSTALLED TO MEET TAS MANEUVERING CLEARANCES. PROVIDE A MIN. CLEARANCE OF 18" AT PULL SIDE OF DOOR. FROM THE STRIKE SIDE OF THE JAMB TO THE ADJACENT PERPENDICULAR PARTITION IF DOOR HAS BOTH A LATCH AND A CLOSER - PROVIDE 12" AT PUSH SIDE OF DOOR.

SYMBOL LEGEND

- ALL WALLS ARE PARTITION TYPE A OR B UNLESS OTHERWISE NOTED
- EXISTING PARTITION TO REMAIN
 - PARTITION TYPE A - STANDARD PARTITION
REF. SHEET A11.2 FOR SECTION
 - PARTITION TYPE B - PARTITION W/SOUND ATTENUATION
REF. SHEET A11.2 FOR SECTION
 - PARTITION TYPE C - NON-RATED PARTITION TO DECK
REF. SHEET A11.2 FOR SECTION
 - PARTITION TYPE D - 1 HR RATED PARTITION TO DECK
REF. SHEET A11.2 FOR SECTION

IMPORTANT WALL LAYOUT INFORMATION

- SPECIFIED CABINETS ARE PRE-MANUFACTURED. IT IS CRITICAL THAT MINIMUM DIMENSIONS SHOWN AT MILLWORK ARE HELD.
- ~ DIMENSIONS SHOWN ARE THE FLOATER DIMENSIONS. IF THE FIELD DIMENSION IS NOT WITHIN 2" OF THE (~) WIDTH SHOWN, NOTIFY DESIGNER PRIOR TO LAYING WALL TRACK.
- INCREASE WALL WIDTHS TO 6" IF REQUIRED WHERE SINKS ARE BACK TO BACK.
- DIMENSIONS IN BOXES ARE 'START HERE' DIMENSIONS FOR CRITICAL DIMENSIONAL STRINGS. EX: 6'-0"

KEYNOTES

- PROVIDE AND INSTALL BLOCKING AND GARB BARS FOR WELLMED SUPPLIED SCALE. INSTALL BLOCKING FROM 24" AFF TO 72" AFF - 4"WIDE. PROVIDE (2) 24" LONG GRAB BARS, 32" APART, WITH BOTTOM OF BARS AT 36" AFF.
- ADJUSTABLE MELAMINE SHELVING ON HEAVY DUTY BRACKETS & STDS 30" O.C. MAX. 6 SHELVES TOTAL AT DEPTHS SHOWN. EDGE BAND ALL.
- PROVIDE SPECIMAN PASS THRU BOX. MOUNT HANDLE 48" AFF MAX. ASI 8156 OR EQUAL ADJUSTABLE CABINETS FOR THICK WALLS OR EQUAL. COORD. WITH CABINETS/SINK.
- REF. CEILING PLAN. PROVIDE A 1"H X 5"W SHEETROCK FURR DOWN TO ALLOW RECENTERING OF CEILING GRID AT CORRIDOR TRANSITIONS.
- PROVIDE SUPPLEMENTAL AC IN SERVER ROOM. REF MEP DWGS.
- PROVIDE AND INSTALL BLOCKING FOR TENANT SUPPLIED WALL MOUNTED T.V. 36" AFF TO 84" AFF 4' WIDE - REF. A2.4
- PROVIDE ALL WALLS OF 3/4" FIRE-RETARDANT PLYWOOD FOR TENANT SUPPLIED EQUIPMENT. SAND FACE. EASE EDGES & PAINT TO MATCH WALL TO 8'AFF
- COLUMNS TO BE MINIMALLY FURRED OUT AS INDICATED WHERE THEY CAN'T BE BURIED COMPLETELY. APPLY SHEETROCK TIGHTLY TO FACE.
- EXTERIOR WINDOW COVERINGS SHALL BE IN CONTRACTOR'S SCOPE. PROVIDE MANUAL ROLLER SHADES WITH FASCIA, 3% SCREEN. SHADE COLOR: LINEN FOG. FASCIA FINISH: MATCH EXTERIOR MULLIONS. REQUIRED BIDDER IS SIERRA WINDOW FASHIONS. CONTACT WALLY OR YOLANDA AT SIERRAWINDOWFASHIONS@GMAIL.COM 210.696.0622
- EXISTING DOOR IS HEAVILY DAMAGED AND OVERSIZED. REPLACE AS SPECIFIED.
- NEW EXTERIOR WALL TO MATCH ADJACENT WALLS.
- INSTALL BLACK OUT FILM AT ALL CLERESTORY WINDOWS THAT FALL ABOVE THE CEILING GRID THROUGHOUT CLINIC AS NEEDED.



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PROJECT

WELLMED CLINIC

AT

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1110 KELLER PARKWAY
KELLER, TX 76248

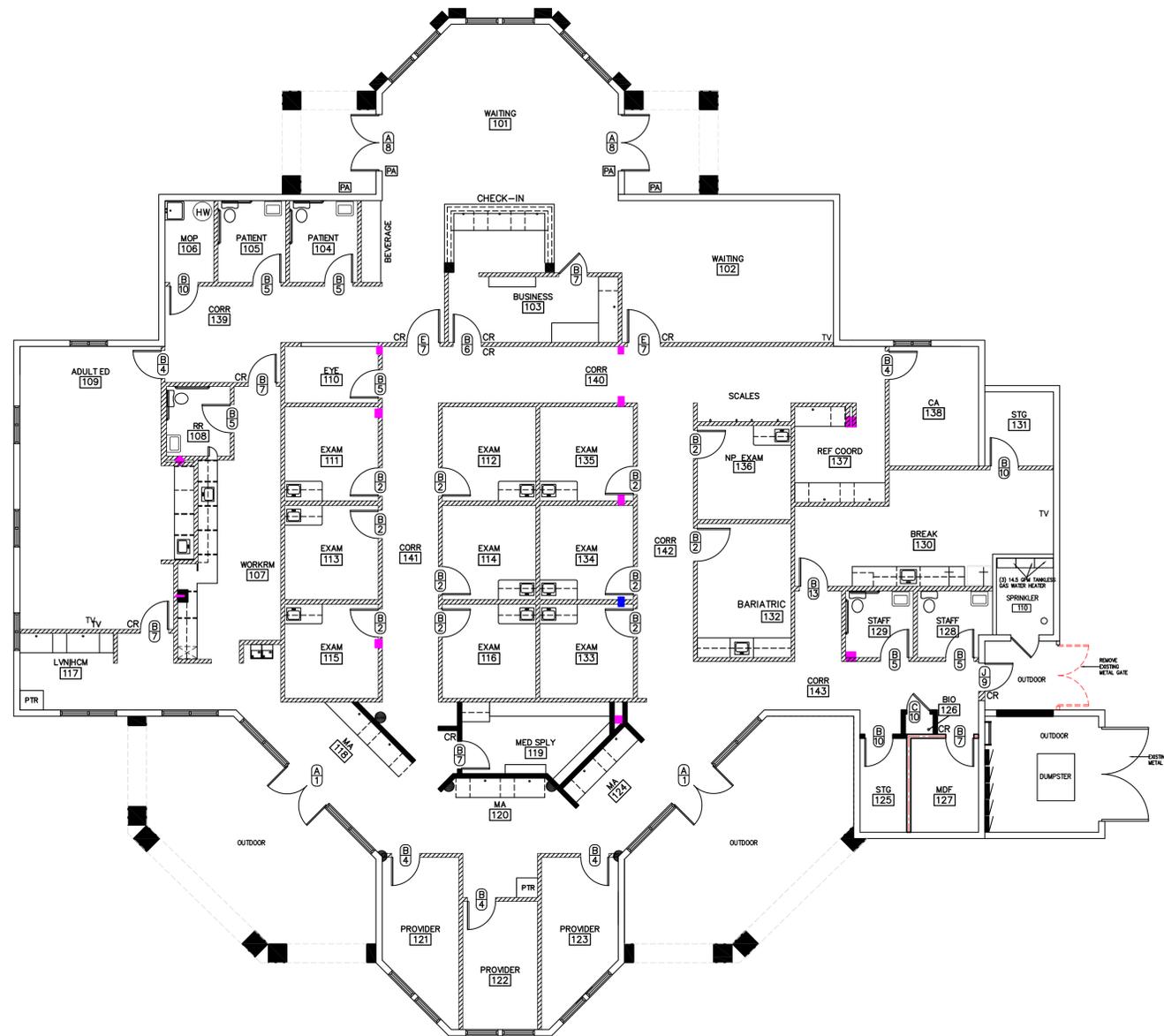
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CONSTRUCTION PLAN

PROJECT NO: WTX07J
DATE: 06.03.24
REVISION DATES:

SHEET NUMBER

A12.2



01 HARDWARE PLAN

1/8"=1'-0"



DOOR TYPES

NOT ALL TYPES USED

- (A) VARIES EXISTING DOOR AND FRAME ASSEMBLY TO REMAIN
- (B) NEW SOLID CORE PLASTIC LAMINATE DOOR IN A H.M. FRAME ASSEMBLY. DOOR LAMINATE: WILSONART-PINNACLE WALNUT 7992-12 SOFT GRAIN FINISH. PAINT FRAME TO MATCH BASE.
- (C) 3 X 7 PAIR NEW SOLID CORE PLASTIC LAMINATE DOOR IN A H.M. FRAME ASSEMBLY. DOOR LAMINATE: WILSONART-PINNACLE WALNUT 7992-12 SOFT GRAIN FINISH. PAINT FRAME TO MATCH BASE.
- (C) 2'6 X 7 NEW SOLID CORE PLASTIC LAMINATE DOOR IN A H.M. FRAME ASSEMBLY. DOOR LAMINATE: WILSONART-PINNACLE WALNUT 7992-12 SOFT GRAIN FINISH. PAINT FRAME TO MATCH BASE.
- (E) 3'6 X 7 NEW SOLID CORE PLASTIC LAMINATE DOOR IN A H.M. FRAME ASSEMBLY. DOOR LAMINATE: WILSONART-PINNACLE WALNUT 7992-12 SOFT GRAIN FINISH. PAINT FRAME TO MATCH BASE. PAINT WINDOW FRAME TO MATCH DOOR FRAME. BOTTOM EDGE OF GLASS - 43" AFF MAX.
- (F) 3'W PAIR EXISTING STOREFRONT DOORS.
- (G) 3'W VERIFY HT EXISTING STOREFRONT DOOR
- (H) 3 X 7 NEW SOLID CORE PLASTIC LAMINATE DOOR IN A H.M. FRAME ASSEMBLY. DOOR LAMINATE: WILSONART-PINNACLE WALNUT 7992-12 SOFT GRAIN FINISH. PAINT FRAME TO MATCH BASE. PAINT WINDOW FRAME TO MATCH DOOR FRAME. BOTTOM EDGE OF GLASS - 43" AFF MAX.
- (I) 3'6 X 7 NEW SOLID CORE PLASTIC LAMINATE DOOR IN A H.M. FRAME ASSEMBLY. DOOR LAMINATE: WILSONART-PINNACLE WALNUT 7992-12 SOFT GRAIN FINISH. PAINT FRAME TO MATCH BASE.
- (J) 3'W VERIFY HT NEW INSULATED HOLLOW METAL DOOR & FRAME ASSEMBLY MATCH EXISTING
- (K) 3 X 7 NEW HOLLOW METAL FRAME CASED OPENING - NO STOPS. PAINT TO MATCH BASE.

HARDWARE TYPES

ALL INTERIOR HARDWARE SHALL BE TAS COMPLIANT LEVER SETS
 LOCKNET IS THE REQUIRED SUPPLIER AND INSTALLER OF ALL LEVERSETS, PUSHBUTTON LEVER SETS, STRIKES, ELECTRIC STRIKES AND DOOR CLOSERS. LOCKSET SHALL BE ENGAGED UNDER THE GC'S SCOPE OF WORK. LOCKSET SHALL PREP FRAMES FOR ALL ELECTRIC STRIKES. CONTACT FREDDIE PROFIT-FreddieP@locknet.com 859.354.4411

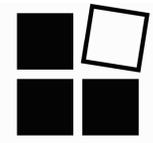
GENERAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL REQUIRED SILENCERS, HINGES, AND DOORSTOPS.
 CARD READER LOCATIONS DO NOT REQUIRE BACK BOX AT INTERIOR DOORS.
 HINGES: 4 1/2" X 4-1/2" HAGER BB-1279 3 PER DOOR
 DOOR STOPS: HAGER 236W WALL STOPS

WELLMED'S SECURITY VENDOR-PHOENIX INTEGRATED-SHALL INSTALL CARD READER SYSTEM AND SECURITY SYSTEM UNDER GC'S SCOPE OF WORK. CONTACT MANNY SOLIZ-msoliz1@phoenixintegratedinc.com 210.325.7990
 ACCESS CONTROL SHALL BE COMPLIANT WITH IBC SECTION 1010

- (1) EXISTING HARDWARE AND CLOSER TO REMAIN CLEAN/REPAIR AS REQUIRED
- (2) INTERIOR LEVER PASSAGE SET PROVIDE ALL REQUIRED SILENCERS, HINGES AND DOORSTOPS.
- (3) INTERIOR LEVER LOCKSET (STOREROOM) PROVIDE ALL REQUIRED SILENCERS, HINGES AND DOORSTOPS.
- (4) INTERIOR LEVER LOCKSET (OFFICE-ENTRY) PROVIDE ALL REQUIRED SILENCERS, HINGES AND DOORSTOPS.
- (5) INTERIOR LEVER PRIVACY SET PROVIDE ALL REQUIRED SILENCERS, HINGES AND DOORSTOPS.
- (6) CARDREADER, LOCKSET (ASYLUM FUNCTION), 8"H KICK PLATES AND CLOSER. AND ELECTRIC STRIKE. WELLMED WILL PROVIDE AND INSTALL CARD READER SYSTEM PROVIDE ALL REQUIRED SILENCERS, HINGES AND DOORSTOPS. COOR. WITH WELLMED'S SECURITY SYSTEM VENDOR REQUIRED.
- (7) CARDREADER, LOCKSET (STOREROOM FUNCTION), 8"H KICK PLATES AND CLOSER. AND ELECTRIC STRIKE. WELLMED WILL PROVIDE AND INSTALL CARD READER SYSTEM PROVIDE ALL REQUIRED SILENCERS, HINGES AND DOORSTOPS. COOR. WITH WELLMED'S SECURITY SYSTEM VENDOR REQUIRED.
- (8) MANUAL PANIC STOREFRONT PUSH-PULL HARDWARE WITH POWER DOOR ASSIST (BOTH DOORS) PROVIDE-INSTALL DOORMAKABA-ED900 SWING DOOR OPERATOR WITH SWING-GUARD SAFETY SYSTEM-MATCH EXTERIOR MULLION FINISH WITH TWO TOUCHLESS ACTUATORS AND RECEIVER (OR APPROVED EQUAL) POST MOUNT OPERATOR WITH HORIZONTAL RAILING BACK TO BUILDING IF SHOWN.
- (9) MODIFY EXISTING DOOR HARDWARE WHERE REQUIRED. FIELD VERIFY MANUAL PANIC HARDWARE (CLASSROOM LEVER OUTSIDE) CARD READER AND CLOSER WITH METAL THRESHOLD PROVIDE ALL REQUIRED SILENCERS, HINGES AND DOORSTOPS. PROVIDE AND INSTALL ELECTRIC STRIKE. PROVIDE AND INSTALL 8"H KICK PLATES. COOR WITH WELLMED'S SECURITY SYSTEM VENDOR AS REQUIRED.
- (10) LEVER PUSHBUTTON LOCKSET (SCHLAGE), 8"H KICK PLATE AND CLOSER PROVIDE ALL REQUIRED SILENCERS, HINGES AND DOORSTOPS.
- (11) LEVER PUSHBUTTON LOCKSET (SCHLAGE), RECESSED FLUSH BOLTS & OVERHEAD STOPS PROVIDE ALL REQUIRED SILENCERS, HINGES AND DOORSTOPS.
- (12) STOREFRONT ELECTRIFIED PANIC HARDWARE, CARD READER, CLOSER AND THRESHOLD
- (13) INTERIOR LEVER PASSAGE SET, 8"H KICK PLATES AND CLOSER PROVIDE ALL REQUIRED SILENCERS, HINGES AND DOORSTOPS.
- (14) SUPPLEMENT-MODIFY EXISTING AS NEEDED: STOREFRONT EXIT ONLY PANIC PUSH BAR/HARDWARE INSIDE. REMOVE EXTERIOR PULL-ADD FILLER PLATE.

THE SWEEP PERIOD OF ALL CLOSERS SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 90 DEGREES, THE DOOR WILL TAKE AT LEAST 5 SECONDS (MINIMUM) TO MOVE TO A POINT OF 12 DEGREES FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.

Access control must be in accordance with IBC Section 1010. Installation plans, details and hardware specifications must be submitted by security system vendor for review and approval as shop drawings from the installing contractor prior to installation of any time delayed egress locks, electromagnetic doorlocks ("mag-locks") or any other access controlled egress devices that impact occupant exiting.



The Dawley Group
 Interior planning & design

280 E. Oakview Pl. San Antonio
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 210-241-9392



6.3.24



PROJECT

WELLMED CLINIC

AT

KELLER
 1110 KELLER PARKWAY
 KELLER, TX 76248

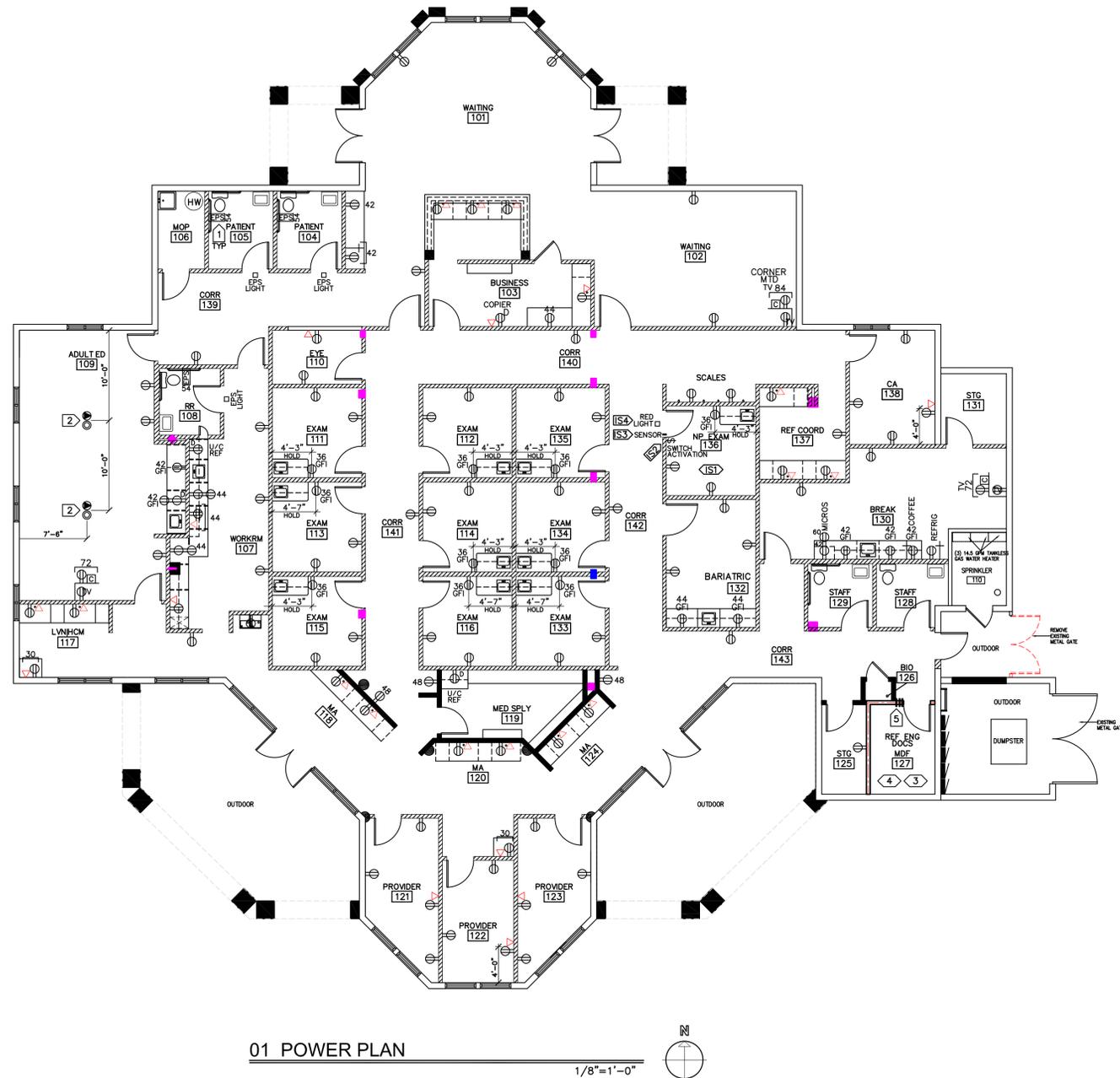
SHEET TITLE

HARDWARE PLAN

PROJECT NO: WTX07J
 DATE: 06.03.24
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01 POWER PLAN

1/8"=1'-0"



NEGATIVE PRESSURE ROOM

- IS1 AT ROOF PROVIDE A SWITCH FOR CONNECTION TO EXHAUST FAN. PROVIDE A EXHAUST DUCT UP TO EXHAUST FAN. REFERENCE ENGINEER'S PLANS.
- IS2 120V/1P/20A SWITCH - CLEAR WITH ILLUMINATED ON-FOR CONNECTION TO EXHAUST FAN AND RED LIGHT.
- IS3 PROVIDE/INSTALL RM PRESSURE MONITOR 'BALL-N-WALL' REF MECH DOCS. IT SHALL MEASURE THE PRESSURE DIFFERENCE BETWEEN THE HALLWAY & THE ISOLATION RM. MONITOR SHALL BE FOR 'NEGATIVE ISOLATION' WITH THE ISOLATION RM. NEGATIVE TO THE HALLWAY. MOUNT MONITOR ABOVE DOOR. INSTALL PER MANUFACTURER'S REQUIREMENTS. NO ELECTRICAL REQUIREMENTS. SHOWN FOR REFERENCE ONLY.
- IS4 "RED LIGHT" SHALL BE EDWARDS SIGNALING #7641R-1N5 120V RED DOME STATION. MTD AT 96" AFF.

KEYNOTES

- 1 EMERGENCY PULL STRING. REFERENCE ELEVATIONS FOR EXACT LOCATION
- 2 FLOOR RECESSED POWER AND COMMUNICATIONS OUTLET. ROUTE (1) CONDUIT FROM FLOOR BOX FOR TELE/DATA AND (1) CONDUIT FOR POWER BELOW FLOOR TO WALL AND EXTEND TO CEILING SPACE AS SHOWN. REF ENGINEER'S DOCUMENTS
- 3 PROVIDE POWER AS REQUIRED FOR SUPPLEMENTAL A/C UNIT FOR M.D.F. ROOM. REF. MEP DOCUMENTS
- 4 PROVIDE ALL WALLS WITH 3/4" FIRE-RETARDANT PLYWOOD FOR TENANT SUPPLIED EQUIPMENT. PROVIDE AND INSTALL A #6 EQUIPMENT GROUND FROM BOARD TO STRUCTURAL STEEL AT 7'-6" AFF. HARGER BICSI PATTERN - GB14412MGB - 1/4" X 4" X 12"
- 5 PROVIDE (3) 4" SLEEVES THROUGH THIS WALL OF THE MDF ROOM ABOVE THE CEILING GRID FOR CABLE ACCESS INTO THE ROOM.

GENERAL NOTES - POWER PLAN

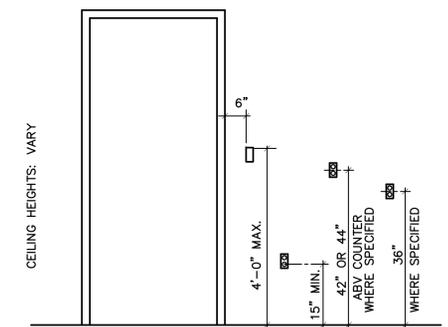
1. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR ALL LABOR, INSURANCE, TAXES, PERMITS, ENGINEERING, SUPERVISION, MATERIAL, EQUIPMENT AND SERVICE NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM. THIS INCLUDES ALL MINOR ITEMS WHICH MAY NOT BE MENTIONED OR SHOWN BUT NECESSARY FOR COMPLETE AND OPERATIONAL SYSTEMS.
2. ALL COVER PLATES SHALL BE WHITE
3. ALL FLOOR OUTLETS SHALL BE MARKED ON FLOOR FOR DESIGNER TO REVIEW FOR FINAL VERIFICATION AND APPROVAL PRIOR TO CORING AND INSTALLATION
4. CONTRACTOR SHALL COORDINATE CLEARANCES AND LOCATIONS WITH MILLWORK SUBCONTRACTOR FOR ALL POWER AND DATA OUTLETS.
5. CONTRACTOR SHALL VERIFY EXISTING ELECTRICAL CAPACITY PRIOR TO SUBMITTING A BID. INCLUDE ANY NECESSARY COSTS TO INCREASE SERVICE IN BID.
6. EQUIPMENT AND APPLIANCE OUTLET MOUNTING HEIGHTS SHALL BE COORDINATED WITH THE BUILDING MANAGER AND LOCATION REQUIRED.
7. CONTRACTOR SHALL PROVIDE SPECIAL OUTLETS, AMPERAGE AND CIRCUITING AS REQUIRED FOR EQUIPMENT NOTED.
8. PRIOR TO DRILLING THE SLAB FOR FLOOR OUTLETS, THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING MANAGER AND STRUCTURAL ENGINEER. CONTRACTOR SHALL USE PILOT HOLES PRIOR TO ALL DRILLING. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE THAT OCCURS.
9. ARCHITECTURAL DOCUMENTS SHALL DICTATE THE LOCATION OF ALL TELEPHONE AND ELECTRICAL OUTLETS. ENGINEERED POWER PLANS ARE FOR DESIGNATED POWER AND CIRCUITRY ONLY. ANY DISCREPANCY SHALL BE BROUGHT TO THE DESIGNER'S ATTENTION FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK.
10. ALL DATA AND TELEPHONE CABLING IS PROVIDED AND INSTALLED BY TENANT'S VENDOR U.N.O.
11. PROVIDE SMOKE DETECTION, VISUAL AND ANNUNCIATION AS REQUIRED BY LOCAL GOVERNING CODES. CONNECT TO BUILDING FIRE ALARM SYSTEM.
12. WHERE TELEPHONE AND ELECTRICAL OUTLETS APPEAR TO BE BACK TO BACK, THE BOXES ARE TO BE STAGGERED TO REDUCE NOISE TRANSMISSION THROUGH PARTITION.
13. CONTRACTOR SHALL MAKE FINAL CONNECTIONS FOR FLOOR OR WALL OUTLETS FEEDING FURNITURE SYSTEM POWER PANELS.
14. ALL DEDICATED OUTLETS SHALL BE CLEARLY DESIGNATED.
15. ALL WIRING WITHIN RETURN AIR PLENUM SHALL BE TEFLON COATED OR CONTAINED WITHIN CONDUIT IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS.
16. CONTRACTOR TO PROVIDE JUNCTION BOX AND PULL STRING FOR ALL TELEPHONE AND DATE OUTLETS TO ASSIST TENANT'S CABLE VENDORS.
17. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR SUBMITTING FIRE ALARM DEVICE PLAN TO THE CITY FOR APPROVAL. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR INSURING THAT DESIGN MEETS BUILDING AND CITY CODE AS WELL AS TEXAS ACCESSIBILITY STANDARDS AND ADA.
18. CONTRACTOR SHALL PROVIDE CUT SHEETS ON ALL NEW ELECTRICAL PANELS AND METERS.

SYMBOL LEGEND - POWER PLAN

NOT ALL USED

- ▶ WALL MOUNTED TELEPHONE OUTLET
- ▷ WALL MOUNTED DATA OUTLET
- ▶▷ WALL MOUNTED TELEPHONE/DATA OUTLET
- ⊕ DUPLEX ELECTRICAL OUTLET
- ⊕⊕ QUADRAPLEX ELECTRICAL OUTLET
- ⊕_D ELECTRICAL OUTLET ON DEDICATED CIRCUIT
- ⊕_{GFI} DUPLEX OUTLET WITH GROUND FAULT INTERRUPT
- ⊙ RECESSED FLOOR POWER OUTLET
- ⊙_T RECESSED FLOOR TELEPHONE OUTLET
- ⊕_S SMOKE DETECTOR
- ⊕_{W.S.} POWER POLE - NUMBER INDICATES STATIONS SERVED VERIFY EXACT LOCATION IN FIELD WITH W.S.
- ⊙ J-BOX IN CEILING
- ⊕_{80"} FIRE ALARM VISUAL DEVICE. MOUNT AT 80" AFF OR 6" BELOW CEILING. (WHICHEVER IS LOWER) T&S COMPLIANT
- ⊕_{80"} FIRE ALARM AUDIO/VISUAL DEVICE. MOUNT AT 80" AFF OR 6" BELOW CEILING. (WHICHEVER IS LOWER) T&S COMPLIANT
- ⊕_{W/CUT} COLD WATER ROUGH IN W/CUT OFF VALVE
- ⊕_{PA} POWER DOOR ASSIST WALL SWITCH
- ⊕_{EPS} EMERGENCY PULL STRING
- ⊕_{EPS ANN} EMERGENCY PULL STRING ANNUNCIATOR STATION
- ⊕_{CR} CARD READER BY WELLMED VENDOR - NO ROUGH-IN REQUIRED.

TYPICAL MOUNTING HEIGHTS



ALL COVER PLATES AND DEVICES SHALL BE WHITE

ALL WALL MOUNTED DEVICES & COVER PLATES SHALL BE WHITE

MDF ROOM SHALL BE COMPLETED PRIOR TO THE BALANCE OF THE LEASE AREA. COORDINATE WITH TENANT DURING PROJECT SCHEDULING. OUTLETS INSTALLED - BUT NOT HOT - FINISHES COMPLETE.



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SEALS



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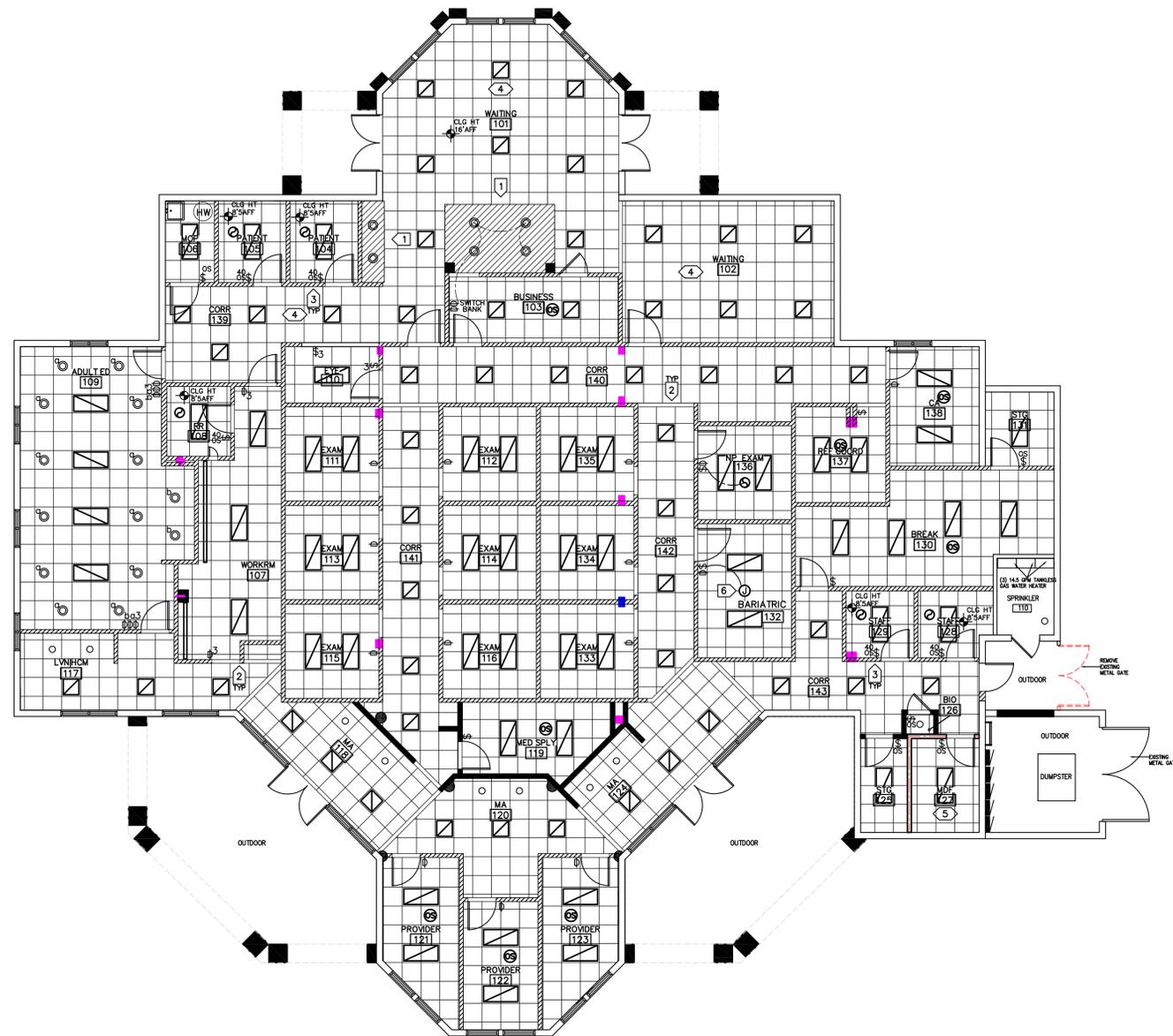
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POWER PLAN

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01 CEILING PLAN
1/8"=1'-0"

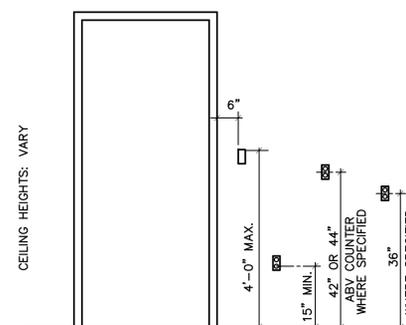
CEILING HEIGHTS

ALL CLINIC AREAS SHALL BE 9'-0" U.N.O. WAITING ROOM ROTUNDA SHALL BE 16'-0" AFF DUE TO WINDOW HEIGHT. PROVIDER OFFICES IN REAR ROTUNDA SHALL BE 9' AFF. PROVIDE BLACK OUT FILM ON WINDOWS ABOVE THAT HEIGHT. RESTROOM CEILING HT SHALL BE 8'-5".

EXIT SIGNS AND EMERGENCY LIGHTING

REFERENCE MEP ENGINEER'S DOCUMENTS FOR EMERGENCY LIGHTING AND EXIT SIGNS.

TYPICAL MOUNTING HEIGHTS



ALL COVER PLATES AND DEVICES SHALL BE WHITE

M.D.F. ROOM SHALL BE COMPLETED PRIOR TO THE BALANCE OF THE LEASE AREA. COORDINATE WITH TENANT DURING PROJECT SCHEDULING. OUTLETS INSTALLED-BUT NOT HOT-FINISHES COMPLETE

ALL WALL MOUNTED DEVICES AND COVER PLATES SHALL BE WHITE

GRID SHALL BE CENTERED IN HALLWAYS AND ROOMS AS SHOWN.

GENERAL NOTES - CEILING PLAN

- WHEN ENGINEERED DOCUMENTS ARE PROVIDED, CONTRACTOR SHALL REFER TO DESIGNER'S DRAWINGS FOR SWITCH LOCATIONS ONLY. REFER TO ENGINEER'S DRAWINGS FOR NUMBER OF SWITCHES AND CIRCUITING.
- CEILING TILE SHALL BE HUNG TO PROVIDE AN EVEN-PLANE SURFACE OF UNIFORM APPEARANCE.
- CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED FIRE PROTECTION DEVICES FOR CODE AND TAS COMPLIANCE. SUBMIT ALL DEVICE LOCATIONS TO DESIGNER FOR REVIEW AND APPROVAL.
- WHERE MORE THAN ONE STANDARD SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN GANG TYPE CONTROLS UNDER ONE COVER PLATE. DIMMER SWITCHES, THERMOSTATS, FAN CONTROLS OR OTHER DEVICES WHICH CAN NOT BE INSTALLED UNDER SAME GANG-TYPE COVER PLATE SHALL BE CLOSELY SPACED AND ALIGNED HORIZONTALLY WITH LIGHT SWITCHES.
- ALL PLUMBING SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES. VENTILATION SYSTEMS SHALL BE TESTED WITH PROPER INSTRUMENTS TO ENSURE PROPER AIR QUANTITIES ARE DELIVERED. THE BALANCING OF VENTILATION SYSTEMS SHALL BE PERFORMED BY A QUALIFIED AGENCY RETAINED BY CONTRACTOR. SUBMIT DATA SHEETS TO LANDLORD INDICATING THE EXHAUST AND SUPPLY OUTLET CFM'S, FAN RMP'S, S.P. MOTOR CURRENTS AND VOLTAGE READINGS.
- EXHAUST FANS SHALL BE OF THE TYPE, CAPACITY, ARRANGEMENT AND MOTOR REQUIREMENTS FOR THE INTENDED SERVICE OF EXHAUSTING AIR FROM SPECIFIED ROOM IN TO CEILING PLENUM.
- AIR BALANCE REPORT REQUIRED TO BE COMPLETED PRIOR TO SUBSTANTIAL COMPLETION OF PROJECT.

SYMBOL LEGEND - CEILING PLAN NOT ALL USED

- NEW RECESSED LED 2 X 4 INDIRECT LIGHT FIXTURE
- NEW RECESSED LED 2 X 4 INDIRECT LIGHT FIXTURE PROVIDE 1400 LUMEN BATTERY PACK (REF ENGINEER'S PLANS FOR LOCATIONS)
- NEW RECESSED LED 2 X 2 INDIRECT LIGHT FIXTURE
- EMERGENCY LIGHT (CIRCUIT HALLWAY AND WAITING AS NIGHT LIGHT)
- NEW RECESSED LED 2 X 2 INDIRECT LIGHT FIXTURE PROVIDE 1400 LUMEN BATTERY PACK (REF ENGINEER'S PLANS FOR LOCATIONS)
- EMERGENCY BACK-UP LIGHT PACK
- LED UNDERCABINET FIXTURE ORDER LENGTH AS NEEDED - AVAILABLE: 6", 12", 48"
- RECESSED LED DOWNLIGHT
- RECESSED DECORATIVE LED DOWNLIGHT
- RECESSED DIRECTIONAL EYEBALL WALLWASHER
- RECESSED WALLWASHER
- PENDANT MOUNTED LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- LIGHT SWITCH SUBSCRIPT INDICATES ASSOCIATED CIRCUITRY
- DUAL LEVEL LIGHT SWITCH
- 3-WAY LIGHT SWITCH
- DIMMER SWITCH LIGHT ENABLED, DIGITAL ON/OFF WITH RAISE/LOWER CONTROL
- OCCUPANCY SENSOR SWITCH WITH DIMMING AND ON/OFF
- OCCUPANCY SENSOR SWITCH-SINGLE RELAY, MANUAL ON-OFF
- OCCUPANCY SENSOR, CEILING MOUNTED, EXTENDED ZONE WHEN PLACED IN CORRIDORS, MOVEMENT IN ANY CORRIDOR SHALL KEEP ALL CORRIDOR LIGHTS ON.
- EXIT SIGN
- EXHAUST FAN
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED

KEYNOTES

- PAINTED SHEETROCK CEILING AT 8'-0". FRONT EDGE OF SHEETROCK FURRING SHALL PROTRUDE FROM ADJACENT WALL 2".
- PROVIDE A 1" H X 5" W SHEETROCK FURDOWN TO ALLOW RECENTERING OF CEILING GRID AT CORRIDOR TRANSITIONS.
- MOUNT LIGHT SWITCHES IN RESTROOM LOWER THAN 48" AS SPECIFIED SO THAT THEY DON'T CONFLICT WITH 48" CHAIR RAIL.
- OCCUPANCY SENSOR LIGHT FIXTURES IN WAITING AND HALLWAYS SHALL BE CIRCUITED SUCH THAT MOVEMENT IN ANY HALLWAY OR THE WAITING RM KEEPS ALL HALLWAY AND RECEPTION LIGHT FIXTURES ON. PROVIDE POWER AS REQUIRED FOR SUPPLEMENTAL A/C UNIT FOR M.D.F. ROOM. COORDINATE REQUIREMENTS WITH MECHANICAL SUBCONTRACTOR.
- PROVIDE POWER ABOVE CEILING FOR PROCEDURE LIGHT PROVIDED & INSTALLED BY TENANT. PROVIDE CONDUIT, CONTROL WIRING, & CONNECTION TO CONTROL SWITCH AS REQUIRED.
-



The Dawley Group

Interior planning & design

280 E. Oakview Pl. San Antonio
Texas 78209
210-241-9392

SEALS



6.3.24



PROJECT

WELLMED CLINIC

AT

KELLER
1110 KELLER PARKWAY
KELLER, TX 76248

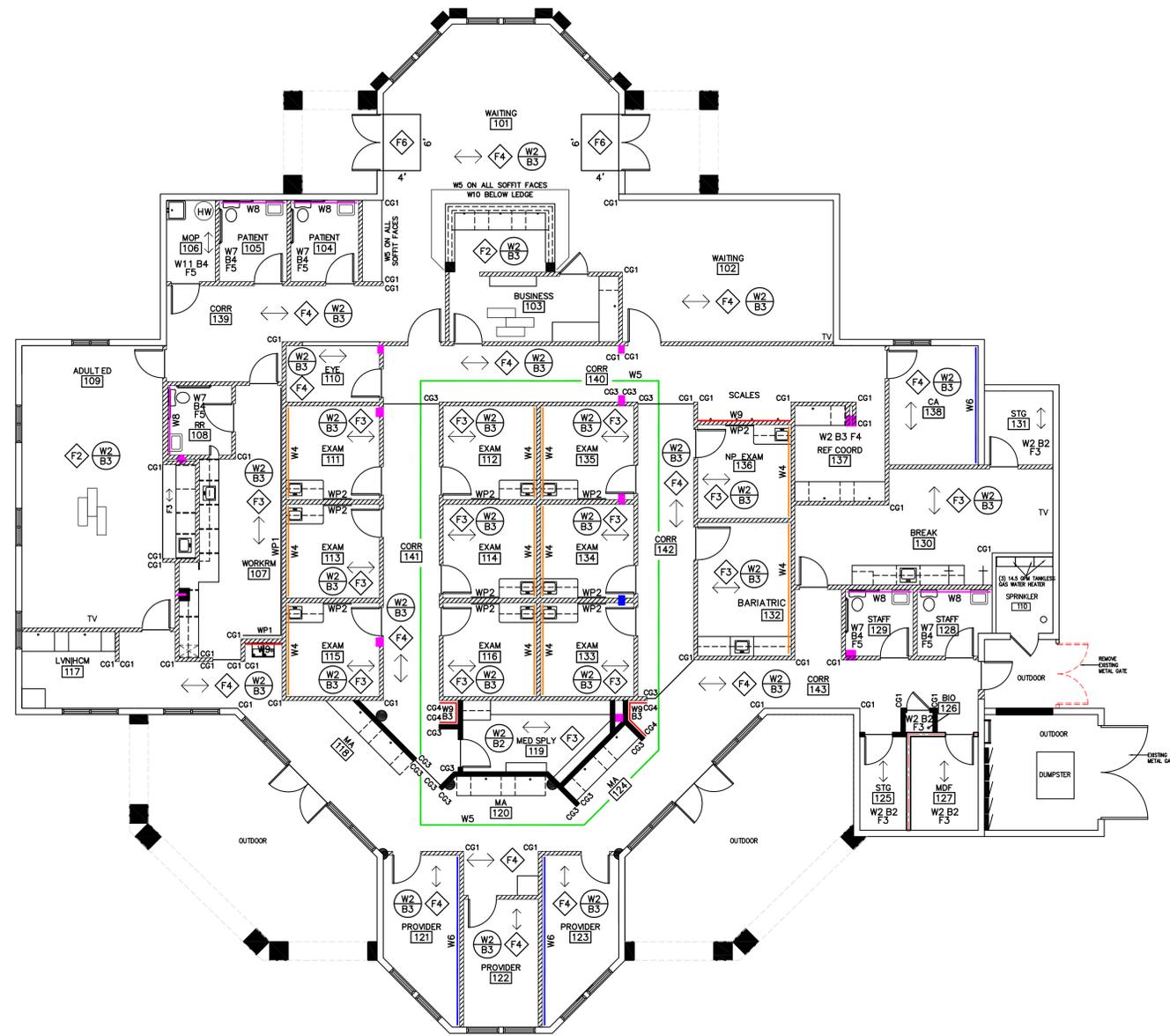
SHEET TITLE

CEILING PLAN

PROJECT NO: WTX07J
DATE: 06.03.24
REVISION DATES:

SHEET NUMBER

A12.5



01 FINISH PLAN
1/8"=1'-0"

WALL PROTECTION

- INPRO PRODUCTS: CONTACT TINA MARTI
TMARTI@INPROCORP.COM
- CORNER GUARDS**
- CG1 CORNER GUARD @ W2
MFR: INPRO
STYLE: 1608N BLUNOSE HIGH IMPACT-2" WING
COLOR: PEBBLE GRAY 0387
INSTALL: TO 4' ABV RUBBER BASE
 - CG2 CORNER GUARD @ W2
MFR: INPRO
STYLE: 1608N BLUNOSE HIGH IMPACT-2" WING
COLOR: PEBBLE GRAY 0387
INSTALL: TO 8' ABV RUBBER BASE
 - CG3 CORNER GUARD @ W5
MFR: INPRO
STYLE: 1608N BLUNOSE HIGH IMPACT-2" WING
COLOR: DOVE GRAY 0106
INSTALL: TO 4' ABV RUBBER BASE
 - CG4 CORNER GUARD @ W5
MFR: INPRO
STYLE: 1608N BLUNOSE HIGH IMPACT-2" WING
COLOR: DOVE GRAY 0106
INSTALL: TO 8' ABV RUBBER BASE
 - CG5 CORNER GUARD @ W4
MFR: INPRO
STYLE: 1608N BLUNOSE HIGH IMPACT-2" WING
COLOR: GRAYSTONE 0151
INSTALL: TO 8' ABV RUBBER BASE

- CG6 CORNER GUARD @ W9
MFR: INPRO
STYLE: 1608N BLUNOSE HIGH IMPACT-2" WING
COLOR: STORM CLOUD 0372
INSTALL: TO 8' ABV RUBBER BASE
- WALL PROTECTION**
- WP1 WALL PROTECTION
MFR: INPRO
STYLE: PALLADIUM RUB RAILS 8"H .04" THICK
COLOR: PEBBLE GRAY 0387
INSTALL: INSTALL BOTTOM OF RAIL AT 32" AFF
 - WP2 WALL PROTECTION
MFR: INPRO
STYLE: PALLADIUM RUB RAILS 3"L x 4"H .04" THICK
COLOR: PEBBLE GRAY 0387
INSTALL: INSTALL BOTTOM OF RAIL AT 16" AFF

FURR DOWNS
WAITING ROOM FURR DOWNS SHALL BE ACCENT PAINT AS SPECIFIED

DOORS-FRAMES
COMPUTER COLOR MATCH TO RUBBER BASE & CHAIRRAIL

COLORWAYS ARE SHOWN IN SHERWIN WILLIAMS, BUT BENJAMIN MOORE AND PPG ARE APPROVED ALTERNATES. AS LONG AS FINISH AND QUALITY ARE MAINTAINED, SHERWIN WILLIAMS PROMAR200HP OR PPG SPEEDHIDE ZERO VOC - FINISHES AS SPECIFIED

ALL WALL AND CEILING FINISHES SHALL BE COMPLIANT FOR FLAME SPREAD INDEX PER 2021 IBC TABLE 803.13 FOR SPRINKLERED BUILDINGS.
ALL FINISHES SHALL BE COMPLIANT FOR IFC SECTIONS 803 & 804.

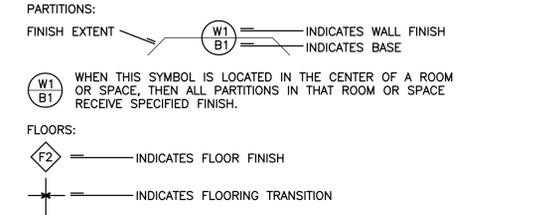
FINISH SPECIFICATIONS

- FLOORING**
- F1 EXISTING TO REMAIN - BROOM CLEAN
 - F2 CARPET TILE
MFR: MOHAWK GROUP
STYLE: VISUAL CONNECTIONS 12X36
COLOR: FLAX 839
INSTALLATION: RANDOM STAGGER. ARROWS SHOW INSTALL DIRECTION. CONTACT WAYLON KOCH FOR WELLMED PRICING waylon_koch@mohawkind.com 210.724.7722
 - F3 VINYL FLOORING - STONE EFFECT
MFR: MOHAWK GROUP
STYLE: CHROMASCOPE C0159 12X24 20MIL
COLOR: DUSTY TRAIL 250
INSTALLATION: RANDOM STAGGER-PROVIDE POWERHOLD 127 OR EQ TRANSITION STRIP AT CARPET TO LVT TRANSITIONS. ARROWS ON FINISH PLAN SHOW INSTALLATION DIRECTION.
 - F4 VINYL FLOORING - WOOD EFFECT
MFR: MOHAWK GROUP
STYLE: LIVING LOCAL PREMIUM WOOD 7.75" X 52" 20MIL
COLOR: BEAGLE 838
INSTALLATION: RANDOM STAGGER-PROVIDE POWERHOLD 127 OR EQ TRANSITION STRIP AT CARPET TO LVT TRANSITIONS. ARROWS ON FINISH PLAN SHOW INSTALLATION DIRECTION.
 - F5 SHEET FLOORING
MFR: FORBO MARMOLEUM
STYLE: REAL
COLOR: 2629 EIGER
INSTALLATION: DIRECT GLUE WITH 6" FLASH COVE SYSTEM ARMOR COVE CONTACT ALEX STINNETT@FORBO.COM ALEXA.STINNETT@FORBO.COM
 - F6 WALK OFF CARPET TILE
MFR: MOHAWK GROUP
STYLE: STEP UP II
COLOR: COBALT 955
SIZE: 24 X 24
INSTALLATION: MONOLITHIC.
- BASE**
- B1 EXISTING TO REMAIN
 - B2 RUBBER BASE
MFR: TARKETT
STYLE: 4" COVE - ROLL GOODS
COLOR: PEBBLE 32
 - B3 PREMIUM RUBBER BASE
MFR: TARKETT
STYLE: MILLWORK - REVEAL PROFILE
COLOR: PEBBLE 32
INSTALL ON FRONT & SIDES OF TOE KICKS @ MILLWORK & PEDESTALS
 - B4 FLASH COVE BASE
MFR: FORBO MARMOLEUM
STYLE: REAL COLOR
COLOR: 2629 EIGER
INSTALLATION: 6" FLASH COVE SYSTEM ARMOR COVE SEE DETAIL. PROVIDE MOISTURE AND MILDEW RESISTANT SILICONE SEAL TO WALL. REF: 09/A14.2
- WALLS**
- ALL WALL AND CEILING FINISHES SHALL BE COMPLIANT FOR FLAME SPREAD INDEX PER 2021 IBC TABLE 803.13 FOR SPRINKLERED BUILDINGS.
ALL FINISHES SHALL BE COMPLIANT FOR IFC SECTIONS 803 & 804.
- W1 EXISTING TO REMAIN
 - W2 PAINT
MFR: SHERWIN WILLIAMS
STYLE: PROMAR 200 HP EG-SHEL
COLOR: SW7035 AESTHETIC WHITE
 - W3 RESTROOM PAINT
MFR: SHERWIN WILLIAMS
STYLE: PROMAR 200 HP SEMI-GLOSS
COLOR: SW7035 AESTHETIC WHITE
 - W4 ACCENT AT WAITING RM EXAM ROOMS
MFR: SHERWIN WILLIAMS
STYLE: PROMAR 200 HP EG-SHEL
COLOR: SW9130 EVERGREEN FOG
 - W5 ACCENT PAINT AT HALLWAYS AND WAITING ROOM SOFFITS
MFR: SHERWIN WILLIAMS
STYLE: PROMAR 200 HP EG-SHEL
COLOR: SW7660 EARL GREY
 - W6 ACCENT PAINT AT OFFICES
MFR: SHERWIN WILLIAMS
STYLE: PROMAR 200 HP EG-SHEL
COLOR: SW7624 SLATE TILE
 - W7 IMPACT NONPOROUS WALLCOVERING WAINSCOT AT RESTROOMS
-TO ~3'-10" AFF BELOW 4'AFF (INPRO 3D 2" TOP CAP)
MFR: INPRO
STYLE: PALLADIUM RIGID SHEET .04"
COLOR: ELM GRAY 0388
INSTALLATION: RAILROAD TO MINIMIZE SEAMS WITH INSIDE CORNER TRIM & TOP CAP ELM GRAY 0388
PAINT W3 ABOVE TOP CAP @ RESTROOMS
 - W8 IMPACT NONPOROUS WALLCOVERING FULL HEIGHT AT RESTROOMS
MFR: INPRO
STYLE: PALLADIUM RIGID SHEET-INTEGRATED SUBWAY EN40610SBY1/2-103 INTERLOCKING 4X10 SHEETS
COLOR: WHITE SAND (INCLUDING TOP & CORNER TRIM CAPS)
INSTALLATION: ABOVE 6" FLASH COVE BASE AT RESTROOM WET WALL
 - W9 IMPACT NONPOROUS RIGID PANELS AT ALCOVES TO 8'AFF
MFR: INPRO
STYLE: PALLADIUM RIGID SHEET .04"
COLOR: ELM GRAY 0388
INSTALLATION: INSTALL VERTICALLY WITH VERTICAL SEAM TRIM PIECES & METAL TOP CAP TRIM: MOUNT SHEET ABOVE RUBBER BASE.
 - W10 IMPACT NONPOROUS WALLCOVERING BELOW TRANSACTION LEDGE
STYLE: PALLADIUM RIGID SHEET .04"
COLOR: ANTIQUE BRONZE 5M002
INSTALLATION: RAILROAD TO MINIMIZE SEAMS. MOUNT BOTTOM OF SHEET ABOVE RUBBER BASE. PROVIDE INTERSECTION & CORNER TRIM CAPS IN COLOR TO MATCH SHEET.
 - W11 FRP WALL PANELS TO 4' AFF - WHITE. MARLITE OR EQUAL. PAINT W3 ABOVE TO CEILING.
- FRAMES**
COMPUTER COLOR MATCH TO RUBBER BASE
- CEILING** - ALL CEILINGS ARE C2 UNLESS OTHERWISE NOTED
- C1 EXISTING TO REMAIN
 - C2 NEW 2 X 2 TEGULAR CEILING GRID AND TILE. INSTALLED AT VARIOUS HTS. REF CEILING PLAN. ARMSTRONG-1732-FINE FISSURED REVEAL EDGE-WHITE

FINISH NOTES

- GENERAL**
1. CONTRACTOR SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION OF ALL MATERIALS.
 2. DELIVER ALL EXTRA MATERIALS TO THE TENANT. FURNISH EXTRA MATERIALS MATCHING PRODUCTS INSTALLED, PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFICATION WITH LABEL DESCRIBING THE CONTENTS.
 3. SUBMIT SAMPLES OF ALL SPECIFIED FINISHES TO DESIGNER FOR APPROVAL PRIOR TO PURCHASE OF FINISHES. ALLOW TIME FOR SUBMITTAL REVIEW & RESUBMITTAL AS REQUIRED.
 4. EXTEND/REPAIR BLDG STD COMMON AREA CORRIDOR FINISHES AS REQUIRED DUE TO CONSTRUCTION/DEMOLITION. VERIFY WITH BLDG MGMT IF ANY MATERIALS ARE STOCK PILED. PROVIDE NEW MATERIAL WHEN NECESSARY.
- FLOORING**
5. TRANSITION OF FLOOR FINISHES IS TO OCCUR AT THE CENTERLINE OF DOOR OR CASED OPENING U.N.O.
 6. CARPET SHALL LAY IN THE SAME DIRECTION UNLESS OTHERWISE SHOWN. CARPET TO RECEIVE A MINIMUM OF SEAMS, NO CROSS JOINTS ARE PERMITTED. AVOID SEAMING NEAR DOORS AND CORNERS.
 7. CARPET SHALL BE TRIMMED EVENLY @ NEATLY FOR A TIGHT FIT @ WALLS, PROJECTIONS, TRIM STRIPS OR REVEALS. TERMINATE CARPET AT FRAMES. FINAL INSTALLATION SHALL BE FREE FROM RIPPLES AND PUNCTURES.
 8. LAY ALL RESILIENT FLOORING FROM CENTER MARKS ESTABLISHED WITH PRINCIPAL WALLS DISCOUNTING MINOR OFFSETS, SO THAT TILE @ OPPOSITE EDGES OF ROOM ARE AT EQUAL WIDTH. ADJUST AS NECESSARY TO AVOID USE OF CUT WIDTHS LESS THAN 1/2 TILE AT ROOM PERIMETERS. LAY TILE SQUARE TO ROOM AXIS, U.N.O.
 9. MATCH TILE FOR COLOR AND PATTERN BY USING TILE FROM CARTONS IN SAME SEQUENCE AS MANUFACTURED AND PACKAGED IF SO NUMBERED.
 10. SEAL & CLEAN FLOOR AS RECOMMENDED BY FLOORING MANUFACTURER OR DISTRIBUTOR.
 11. APPLY WALL BASE TO WALLS, COLUMNS, PILASTERS, AND OTHER PERMANENT FIXTURES IN ROOMS OR AREAS WHERE BASE IS REQUIRED. INSTALL BASE IN LENGTHS AS LONG AS PRACTICAL, WITH PREFORMED CORNER UNITS, OR FABRICATED FROM BASE MATERIALS WITH MITERED OR COPED INSIDE CORNERS. ALL LENGTHS OF BASE SHALL BE A MIN. OF 12" WALLS.
 12. WHERE PATCHING OCCURS IN A SMOOTH PAINTED SURFACE, EXTEND FINAL PAINT COAT OVER ENTIRE UNBROKEN SURFACE CONTAINING THE PATCH AFTER THE AREA HAS RECEIVED PRIMER AND SECOND COAT.
 13. REFER TO MANUFACTURER'S WRITTEN SPECIFICATIONS FOR TEMPERATURE OF SURFACE TO BE PAINTED & SURROUNDING AIR. DO NOT APPLY WHEN RELATIVE HUMIDITY EXCEEDS 85% AND DO NOT APPLY TO DAMP OR WET SURFACES.
 14. ELECTROSTATIC SPRAY PAINT TO METAL FINISHES U.N.O.
 15. PAINT SURFACES BEHIND REMOVABLE EQUIPMENT & FURNITURE. PAINT BEHIND NON-REMOVABLE ITEMS WITH PRIMER ONLY.
 16. PROVIDE THE MANUFACTURER'S BEST QUALITY TRADE SALE PAINT MATERIAL OF THE VARIOUS COATING TYPES SPECIFIED. PAINT MATERIAL CONTAINERS NOT LABELED WITH MANUFACTURER'S PRODUCT WILL NOT BE ACCEPTED.

FINISH LEGEND



TARKETT ONLINE CUSTOMER PORTAL REGISTRATION INSTRUCTIONS FOR JOHNSONITE PRODUCTS:

ENTER THE FOLLOWING WEB ADDRESS INTO WEB BROWSER:
<http://mobile2b.tarkettna.com/DistributorPortal/externalredirect/cep>

AFTER CONNECTING TO THE TARKETT PORTAL REGISTRATION PAGE:

- 1) CLICK THE REGISTER BUTTON
- 2) COMPLETE REGISTRATION INFORMATION
- 3) YOU WILL BE SENT AN EMAIL TO SETUP YOUR OWN PERSONAL PASSWORD TO THE TARKETT PORTAL

NOTE: THE FOLLOWING INFORMATION WILL BE REQUIRED TO REGISTER FOR THIS STRATEGIC PROGRAM NUMBER (SPN)
PROGRAM CODE: 601761
PROGRAM ACCESS CODE: 752194

THE FOLLOWING INFORMATION WILL BE REQUIRED TO PLACE AN ORDER:

- 1) PURCHASE ORDER NUMBER: SPECIFIC ORDER REFERENCE
- 2) REQUESTED SHIP DATE: REQUESTED DATE OF SHIPMENT TO MEET THE NEEDS OF THE CUSTOMER
- 3) LOCATION/PROPERTY CODE: PROJECT NAME
- 4) AUTHORIZATION CODE: LOCATION
- 5) SPECIAL INSTRUCTIONS: DISTRIBUTOR SERVICING ORDER

ALL ORDERS SHOULD BE PLACED DIRECTLY WITH TARKETT VIA THE PORTAL AND WILL BE SERVICED WITH TARKETT'S AUTHORIZED SERVICE CHANNEL.

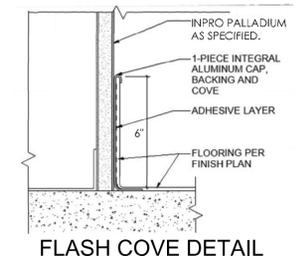
*PLEASE ENSURE THAT ONLY AUTHORIZED PERSONNEL HAVE ACCESS TO THE PORTAL

CONTACT: STACEY MIELNIK 440.903.4032 STACEY.MIELNIK@TARKETT.COM

*FOR WELLMED PRICING ON ALL JOHNSONITE PRODUCTS, REFER TO TARKETT ONLINE CUSTOMER PORTAL REGISTRATION INSTRUCTIONS PROVIDED ON FINISH SHEET/AI-2.5

MDF ROOM SHALL BE COMPLETED PRIOR TO THE BALANCE OF THE LEASE AREA. COORDINATE WITH TENANT DURING PROJECT SCHEDULING. OUTLETS INSTALLED - BUT NOT HOT - FINISHES COMPLETE.

ALL CLINIC AREAS SHALL BE 9'-0" U.N.O. RESTROOMS SHALL BE 8'-5". A PORTION OF THE WAITING ROOM SHALL BE 16' AFF. REF. CEILING PLAN.



FLASH COVE DETAIL



280 E. Oakview Pl. San Antonio
Texas 78209
210-241-9392



6.3.24



PROJECT

WELLMED CLINIC

AT

KELLER
1110 KELLER PARKWAY
KELLER, TX 76248

SHEET TITLE

**FINISH PLAN
FINISH SCHEDULE**

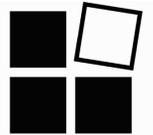
PROJECT NO: WTX07J
DATE: 06.03.24
REVISION DATES:

SHEET NUMBER

AI2.6

GENERAL NOTES - MILLWORK

- ALL MILLWORK SHALL COMPLY WITH "PREMIUM GRADE" REQUIREMENTS AS SPECIFIED IN THE LATEST EDITION OF "ARCHITECTURAL WOODWORKING QUALITY STANDARDS AND GUIDE SPECIFICATIONS" AS PREPARED BY THE ARCHITECTURAL WOODWORKING INSTITUTE.
- MATERIALS NOT COVERED BY SPECIFICATIONS SHALL BE THE BEST OBTAINABLE FOR THE PURPOSE INTENDED.
- WHERE COMPONENTS ARE MITERED OR BUTTED, THEY SHALL BE JOINED AND SECURED IN A MANNER TO INSURE AGAINST THE JOINT OPENING.
- ALL MILLWORK SHALL BE FABRICATED, ASSEMBLED, FINISHED & INSTALLED IN THE BEST METHOD KNOWN TO THE CABINET TRADE. SURFACES AND RADIUS SHALL BE TRUE, STRAIGHT AND FREE FROM ALL MACHINE AND TOOL MARKINGS, BRUISES, INDENTATIONS, CHIPS OR ABRASIONS. DESIGNER RESERVES THE RIGHT TO REJECT WORK IF DEEMED UNACCEPTABLE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS - IF APPLICABLE - TO DESIGNER SHOWING LOCATION OF EACH ITEM, DIMENSIONED PLANS AND ELEVATIONS, LARGE SCALE DETAILS, ATTACHMENT DEVICES, & OTHER COMPONENTS.
- CONTRACTOR SHALL SUBMIT FINISH SAMPLES TO DESIGNER FOR REVIEW AND APPROVAL.
- SHOW VENEER LEAVES WITH DIMENSIONS, GRAIN DIRECTION, EXPOSED FACE, AND AN IDENTIFICATION NUMBER INDICATED FOR EACH LEAF. IDENTIFICATION NUMBER SHALL INDICATE THE FLUTCH AND SEQUENCE WITHIN THE FLUTCH FOR EACH LEAF - AS APPLICABLE.
- WHERE WOODWORK IS INDICATED TO BE FITTED TO OTHER CONSTRUCTION, CHECK ACTUAL DIMENSIONS OF OTHER CONSTRUCTION BY ACCURATE FIELD MEASUREMENTS BEFORE FABRICATION AND SHOW RECORDED MEASUREMENTS ON FINAL SHOP DRAWINGS, COORDINATE FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID DELAYING THE WORK.
- WHERE FIELD MEASUREMENTS CAN NOT BE MADE WITHOUT DELAYING THE WORK, GUARANTEE DIMENSIONS AND PROCEED WITH FABRICATING WOOD WORK WITHOUT FIELD MEASUREMENTS. PROVIDE ALLOWANCE FOR TRIMMING AT SITE AND COORDINATE CONSTRUCTION TO ENSURE THAT ACTUAL DIMENSIONS CORRESPOND TO GUARANTEED DIMENSIONS.
- MACHINE AND SAND WOODWORK TO COMPLY WITH REQUIREMENTS FOR SPECIFIED GRADE. WOODWORK TO BE PAINTED SHALL BE PRIMED AND SANDED IN SHOP.
- ALL SHELVES SHALL BE 3/4" BIRCH PLYWOOD, WITH EDGES BANDED WITH HARDWOOD TO MATCH THE VENEERS USED - UNO.
- ALL BLOCKING REQUIRED SHALL BE SCRIBED TO WALL OR CEILING. CONTRACTOR TO CHECK JOB PROGRESS AND COORDINATE WITH OTHER TRADES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BLOCKING REQUIRED. UNDER NO CIRCUMSTANCES WILL "EXTRA" WORK BE AUTHORIZED FOR BLOCKING.
- INSTALL WOODWORK PLUMB, LEVEL, TRUE AND STRAIGHT WITH NO DISTORTIONS. SHIM AS REQUIRED WITH CONCEALED SHIMS. INSTALL TO A TOLERANCE OF 1/8 INCH IN 96 INCHES.
- PROVIDE FINAL PROTECTION AND MAINTAIN CONDITIONS IN A MANNER ACCEPTABLE TO FABRICATOR AND INSTALLER THAT ENSURES THAT WOODWORK IS WITHOUT DAMAGE OR DETERIORATION AT THE TIME OF SUBSTANTIAL COMPLETION.
- ADJUST CABINET WORK AND HARDWARE SO THAT DOORS AND DRAWERS OPERATE SMOOTHLY WITHOUT WARP OR BIND.
- JOINTS BETWEEN CABINET DOORS, DRAWERS ETC. SHALL BE OF UNIFORM WIDTH NOT TO EXCEED 1/8" UNLESS NOTED OTHERWISE.
- SEAL WOOD SURFACES NOT RECEIVING PLASTIC LAMINATE OR PAINT TO PREVENT MOISTURE PENETRATION.
- GROMMETS ARE TO BE FIELD-CUT FOR COORDINATION WITH ELECTRICAL DEVICES. GROMMETS SHALL BE 3" DIA PLASTIC TO MATCH FINISH COLOR OF MILLWORK UNLESS OTHERWISE NOTED. PROVIDE A GROMMET ABOVE ALL UNDER COUNTER OUTLETS THAT ARE NOT ASSOCIATED WITH UNDER COUNTER EQUIPMENT.
- WHERE CABINET DOORS EXCEED 32" IN HEIGHT, PROVIDE 1-1/2 PAIRS OF HINGES AT EACH LEAF. VERIFY ADEQUACY TO SUPPORT CABINET DOORS.



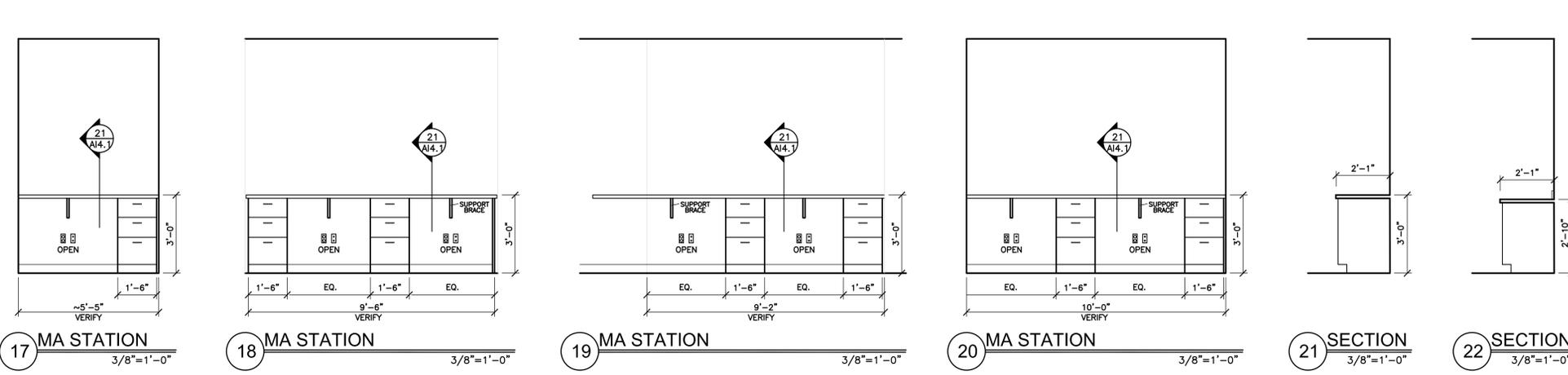
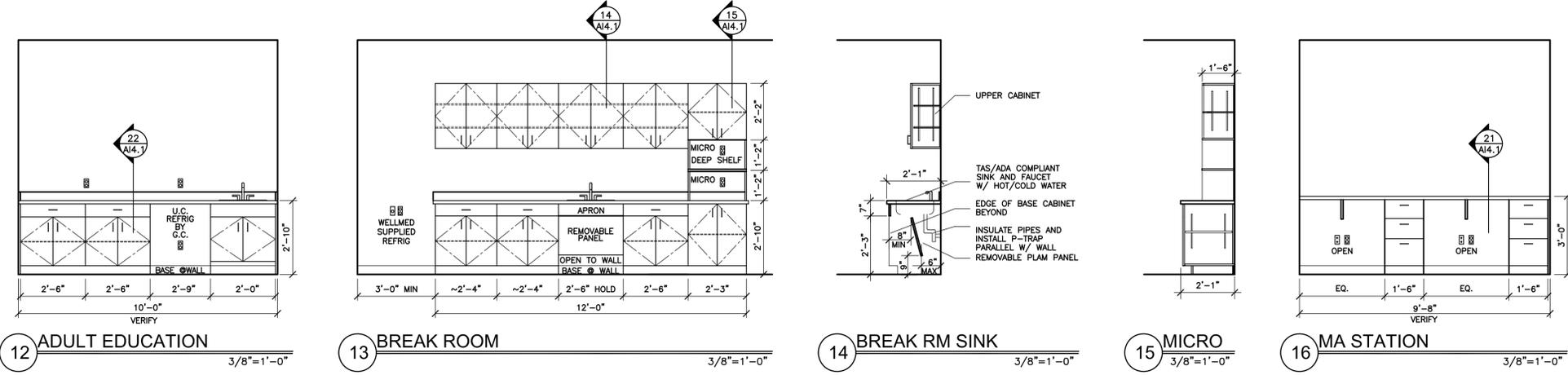
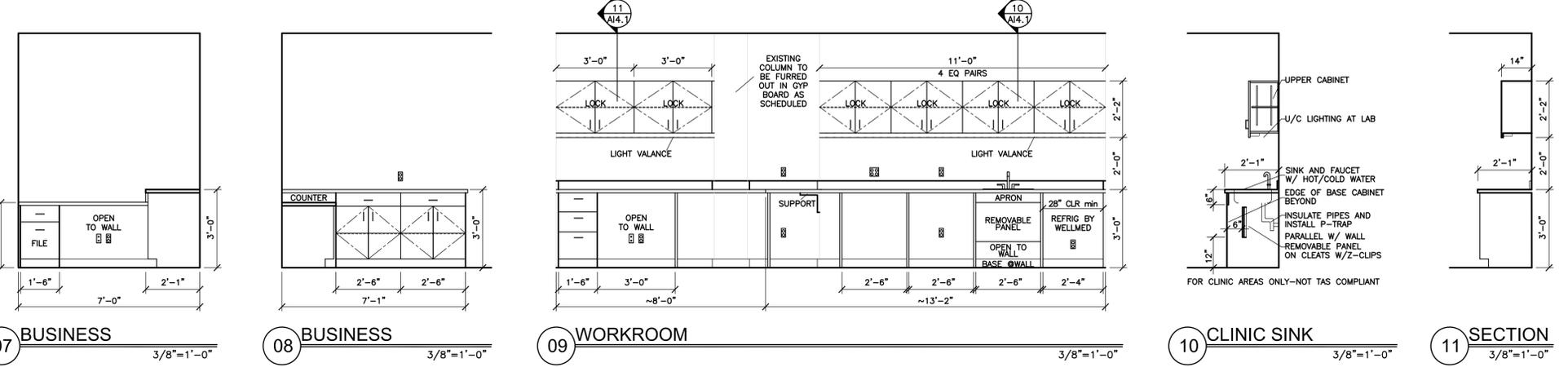
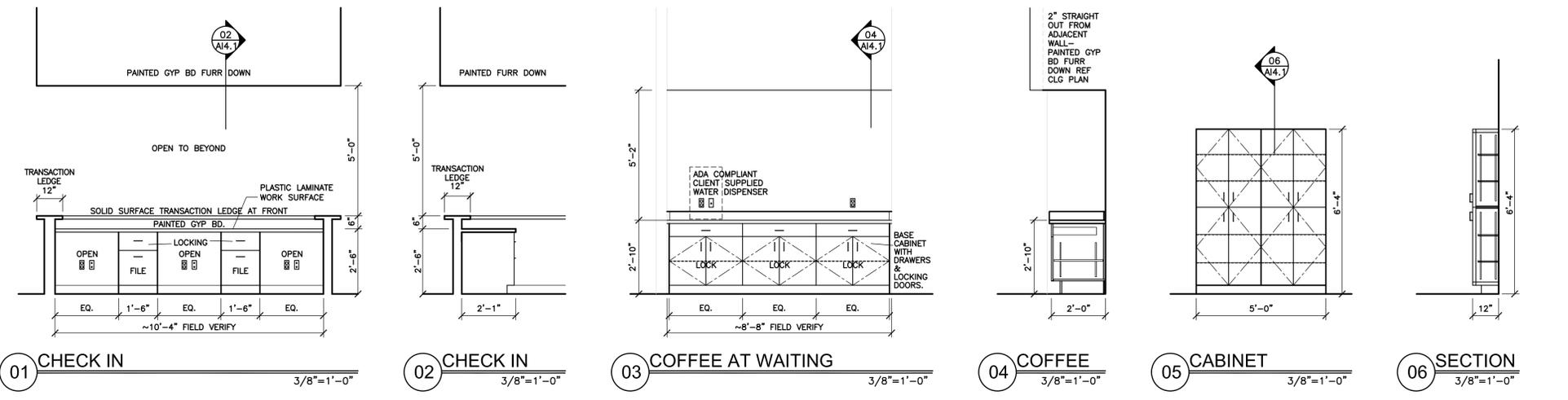
The Dawley Group
Interior planning & design

280 E. Oakview Pl. San Antonio
Texas 78209
210-241-9392



6.3.24

SEALS



CABINET SPECIFICATIONS

ALL BASE & UPPER CABINETS SHALL BE PREMIUM GRADE PLASTIC LAMINATE FLUSH OVERLAY
ALL CABINETS SHALL BE BUTT - TO ALLOW FOR CONTRACTOR INSTALLED LOCKS WHERE SPECIFIED. (THE CENTER STILE MAKES THIS DIFFICULT)
ALL UPPER AND LOWER CABINETS SHALL HAVE FILLERS AT WALLS.
COUNTERTOPS AND SPLASHES SHALL BE PLASTIC LAMINATE AS SPECIFIED. PROVIDE A SMALL RADIUS ON THE OUTSIDE CORNER OF ALL COUNTERTOPS
TRANSACTION LEDGES AT RECEPTION AND UNIT CLERKS SHALL BE SOLID SURFACE WIRE PULLS SHALL BE 4" - BRUSHED ALUMINUM
PROVIDE SOFT CLOSE GLIDES AND HINGES BY ACCURIDE

MILLWORK SPECIFICATIONS

PLASTIC LAMINATE COUNTERTOPS
MFG: WILSONART LAMINATE
STYLE: 4878-38 FINE VELVET FINISH
COLOR: PEWTER MESH
*PROVIDE A 2" RADIUS ON OUTSIDE CORNERS THROUGHOUT CLINIC

PLASTIC LAMINATE CABINETS
MFG: WILSONART LAMINATE
STYLE: 7992-38 FINE VELVET FINISH
COLOR: PINNACLE WALNUT

SOLID SURFACE LEDGES
MFG: WILSONART
STYLE: THINSCAPE
COLOR: SOLUNA TS511-LR
EASED EDGE PROFILE

CONTRACTOR SUPPLIED APPLIANCES

APPLIANCES
U/C REFRIGERATOR AT ADULT EDUCATION ROOM:
MARVEL - MODEL MARE224-SS41A

CONTRACTOR SUPPLIED DISPENSERS

DISPENSERS
AT RESTROOMS:
SANITARY NAPKIN RECEPTACLE: BOBRICK B-270
PAPER TOWEL DISPENSERS:
TORK XPRESS FULL SIZE WALL MOUNT DISPENSER H-1596 BLACK
SOAP DISPENSERS:
INSTALL SOAP DISPENSERS PROVIDED BY WELLMED'S VENDOR - CINTAS
TOILET PAPER DISPENSERS
TORK OPTICORE - DOUBLE ROLL BLACK

AT EXAM ROOMS:
PAPER TOWEL DISPENSERS:
TORK XPRESS FMINI WALL MOUNT DISPENSER H-1595 BLACK

AT BREAK ROOM, LAB, CONFERENCE ROOM & WAITING ROOM COFFEE BAR:
PAPER TOWEL DISPENSERS:
TORK XPRESS FULL SIZE WALL MOUNT DISPENSER H-1596 BLACK
CONFIRM LOCATION WITH WELLMED COORDINATOR

AT EXAM ROOMS:
CONTRACTOR SHALL INSTALL ALL WALL MOUNTED EQUIPMENT AND DISPENSERS PROVIDED BY WELLMED. REF SET UP PROCEDURES



PROJECT

WELLMED CLINIC

AT

KELLER
1110 KELLER PARKWAY
KELLER, TX 76248

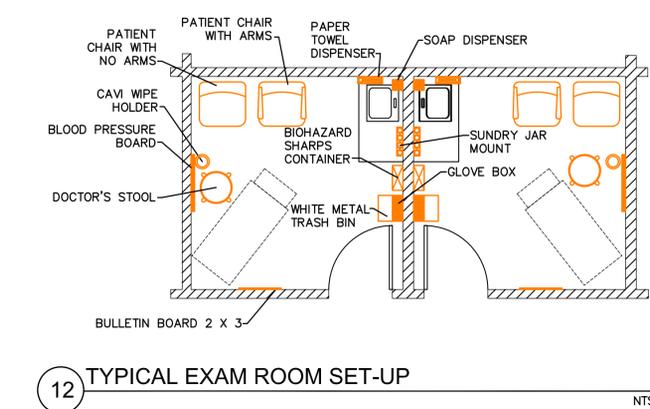
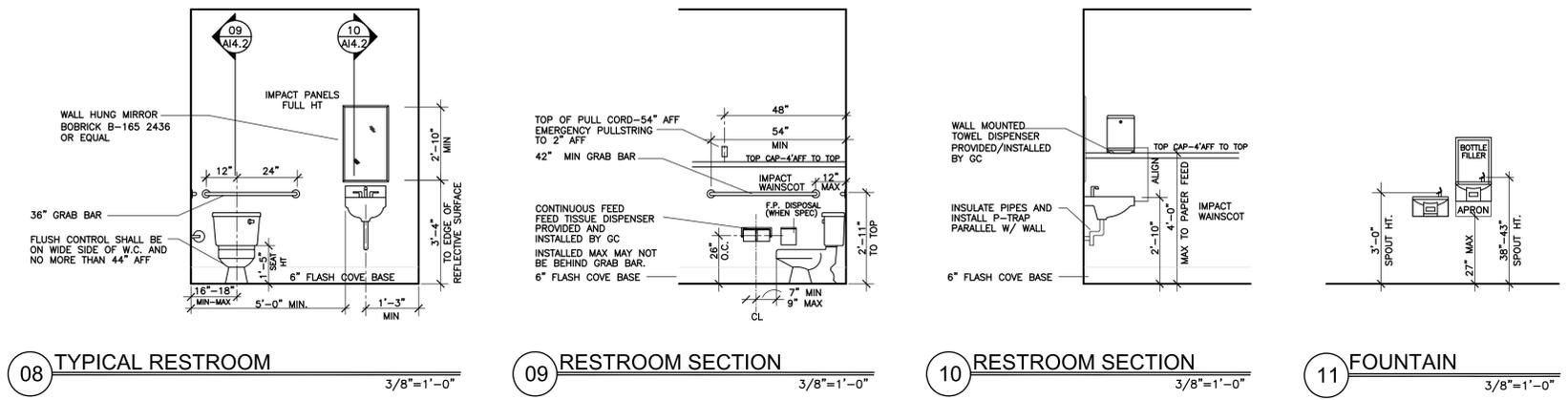
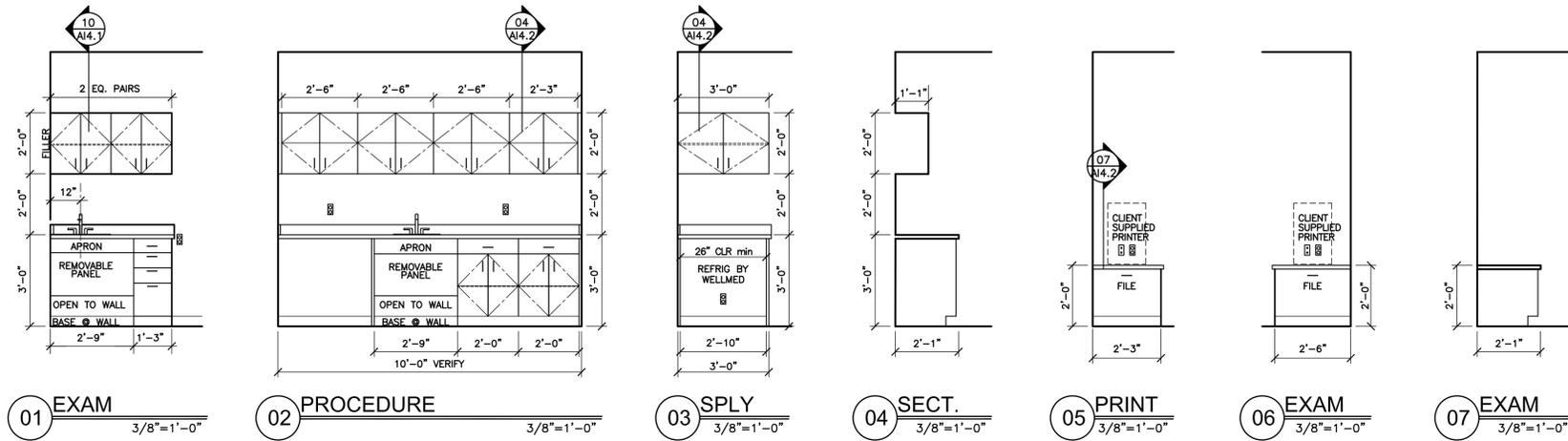
SHEET TITLE

ELEVATIONS

PROJECT NO: WTX07J
DATE: 06.3.24
REVISION DATES:

SHEET NUMBER

A14.1



EXAM ROOM SET-UP PROCEDURES

BLOOD PRESSURE BOARD

OTOSCOPE, OPHTHALMOSCOPE AND MANUAL BLOOD PRESSURE WITH ADULT 11 AND ADULT 13 CUFF

- BOARD TO BE MOUNTED USING 50 POUND ANCHORS, MINIMUM OF 4 ANCHORS, WITH #8 WASHERS
- PLACE THE BRACKET 63" (160 CM) FROM THE FLOOR. REFER TO WELCH ALLYN DOCUMENTS FOR INSTALL RECOMMENDATIONS
- BOARD TO BE CENTERED ON WALL OPPOSITE SINK
- ELECTRICAL CORD TO BE ZIP TIED OR VELCRO WRAPPED

NOTE: EXAMPLES OF PURCHASED ITEMS (HOLLOW DOOR AND DRYWALL ANCHOR 50 LBS E*Z ANCOR BRAND, WASHERS SAE FLAT WASHERS SAE #8 HILLMAN BRAND) CAN BE PURCHASED AT YOUR LOCAL HARDWARE STORE

SHARPS CONTAINER MOUNT

CDC REQUIRES OPENING OF SHARPS CONTAINER TO BE BETWEEN 52" AND 56" AFF (SEE ATTACHMENT OF REGULATION REQUIREMENTS PER OSHA)

- BRACKET TO BE MOUNTED BETWEEN SINK AND DOOR CLOSEST TO CABINET
- BOTTOM OF BRACKET TO BE AT 42" AFF
- INSTALLATION IS ACHIEVED BY FOUR, 40 POUND ANCHORS WITH #8 ANCHORS

NOTE: EXAMPLES OF PURCHASED ITEMS (HOLLOW DOOR AND DRYWALL ANCHOR 40 LBS E*Z ANCOR BRAND, WASHERS SAE FLAT WASHERS SAE #8 HILLMAN BRAND) CAN BE PURCHASED AT YOUR LOCAL HARDWARE STORE

GLOVE BOX

- BRACKET TO BE MOUNTED BETWEEN SINK AND DOOR, ADJACENT TO SHARPS CONTAINER
- BOTTOM OF BRACKET TO BE AT 42" AFF
- INSTALLATION IS ACHIEVED BY THREE, 40 POUND ANCHORS WITH #8 ANCHORS

NOTE: EXAMPLES OF PURCHASED ITEMS (HOLLOW DOOR AND DRYWALL ANCHOR 40 LBS E*Z ANCOR BRAND, WASHERS SAE FLAT WASHERS SAE #8 HILLMAN BRAND) CAN BE PURCHASED AT YOUR LOCAL HARDWARE STORE

TRASH CAN

WHITE TO BE PLACED UNDER GLOVE BOX

SUNDRY CONTAINERS MOUNT

TO BE DETERMINED, PER SITE, IF MOUNT IS NEEDED. IF MOUNT IS NEEDED, IT IS TO BE MOUNTED UNDERNEATH THE CABINET, 3" ABOVE THE COUNTERTOP, AND FLUSH WITH THE END OF COUNTERTOP SURFACE.

NOTE: EXAMPLES OF PURCHASED ITEMS (HOLLOW DOOR AND DRYWALL ANCHOR 40 LBS E*Z ANCOR BRAND, WASHERS SAE FLAT WASHERS SAE #8 HILLMAN BRAND) CAN BE PURCHASED AT YOUR LOCAL HARDWARE STORE

BULLETIN BOARD

BULLETIN BOARD TO BE INSTALLED AS LISTED ON DIAGRAM PER ROOM SET-UP. BOTTOM OF FRAME 52" AFF

CAVI WIPE MOUNT

MOUNT ON THE BLOOD PRESSURE BOARD WITH ANCHORS THAT COME WITH THE MOUNT

NOTE: EXAMPLES OF PURCHASED ITEMS (HOLLOW DOOR AND DRYWALL ANCHOR 50 LBS E*Z ANCOR BRAND, WASHERS SAE FLAT WASHERS SAE #8 HILLMAN BRAND) CAN BE PURCHASED AT YOUR LOCAL HARDWARE STORE

SOAP DISPENSERS

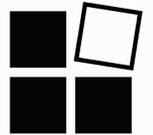
TO BE INSTALLED BETWEEN SINK AND WALL (USE RECOMMENDED HARDWARE, DO NOT USE DOUBLE SIDED TAPE)

NOTE: EXAMPLES OF PURCHASED ITEMS (HOLLOW DOOR AND DRYWALL ANCHOR 50 LBS E*Z ANCOR BRAND, WASHERS SAE FLAT WASHERS SAE #8 HILLMAN BRAND) CAN BE PURCHASED AT YOUR LOCAL HARDWARE STORE

PAPER TOWEL DISPENSERS

TO BE INSTALLED ON WALL NEXT TO CABINET. PER ADA, BOTTOM OF PAPER TOWEL DISPENSER SHOULD NOT EXCEED 48" FROM FINISHED FLOOR

NOTE: EXAMPLES OF PURCHASED ITEMS (HOLLOW DOOR AND DRYWALL ANCHOR 50 LBS E*Z ANCOR BRAND, WASHERS SAE FLAT WASHERS SAE #8 HILLMAN BRAND) CAN BE PURCHASED AT YOUR LOCAL HARDWARE STORE



The Dawley Group

Interior planning & design

280 E. Oakview Pl. San Antonio
Texas 78209
210-241-9392

SEALS



6.3.24



PROJECT

WELLMED CLINIC

AT

KELLER
1110 KELLER PARKWAY
KELLER, TX 76248

SHEET TITLE

ELEVATIONS & EXAM RM NOTES

PROJECT NO: WTX07J
DATE: 06.03.24
REVISION DATES:

SHEET NUMBER

A14.2

LEGEND OF MECHANICAL SYMBOLS		ABBREVIATIONS	
	NEW DUCTWORK INDICATED BOLD	(E)	EXISTING TO REMAIN
	EXISTING DUCTWORK INDICATED LIGHT	(N)	NEW
	DEMOLISH DUCTWORK INDICATED LIGHT & DASHED	(R)	ITEM NOTED TO BE RELOCATED
	RELOCATE DUCTWORK INDICATED LIGHT, DASHED, & CROSS-HATCHED	(D)	ITEM NOTED TO BE DEMOLISHED
	CENTRIC TRANSITION	A.C.A.	COMPRESSED AIR
	ECCENTRIC TRANSITION	ABV	ABOVE
	RECTANGULAR ELBOW WITHOUT TURNING VANES	AD	AUTOMATIC DAMPER
	RECTANGULAR ELBOW WITH TURNING VANES	AF	ABOVE FINISHED FLOOR
	RADIUS ELBOW WITHOUT TURNING (90° RADIUS ELBOW R=1.0W)	AHF	AIR HANDLING UNIT
	ROUND SPIN-IN WITHOUT DAMPER	APU	AIR PRESSURE DROP
	ROUND SPIN-IN WITH DAMPER	AUX	AUXILIARY
	ROUND SPIN-IN WITH REMOTE DAMPER OPERATOR	BFF	BELOW FINISHED FLOOR
	STANDARD SMACNA PRESSURE TAP	BHP	BRAKE HORSE POWER
	ROUND SPIN-IN DAMPER WITH FLEXIBLE RUN-OUT	BLDG	BUILDING
	FLEXIBLE CONNECTION	B.O.D.	BOTTOM OF DUCT
	POSITIVE PRESSURE DUCT UP	B.O.P.	BOTTOM OF PIPE
	POSITIVE PRESSURE DUCT ON	BTU	BRITISH THERMAL UNIT
	NEGATIVE PRESSURE DUCT UP	BTUH	BRITISH THERMAL UNIT PER HOUR
	NEGATIVE PRESSURE DUCT ON	CD	CONDENSATE DRAIN
	MANUAL VOLUME DAMPER	CFH	CUBIC FEET PER HOUR
	AUTOMATIC / MOTORIZED DAMPER	CFM	CUBIC FEET PER MINUTE
	BACK DRAFT DAMPER	CHWS	CHILLED WATER SUPPLY
	COMBINATION FIRE-SMOKE DAMPER (VERTICAL POSITION)	CHWR	CHILLED WATER RETURN
	COMBINATION FIRE-SMOKE DAMPER (HORIZONTAL POSITION)	CIRC	CIRCULATING
	FIRE DAMPER (VERTICAL POSITION)	CL	CENTERLINE
	FIRE DAMPER (HORIZONTAL POSITION)	CLG	CEILING
	SQUARE CEILING SUPPLY DIFFUSER	CNWN	CONNECTION
	SQUARE CEILING EXHAUST DIFFUSER	CRAC	ROOM ROOM AIR CONDITIONER
	SQUARE CEILING RETURN DIFFUSER	CRHRU	ROOM ROOM AIR HANDLING UNIT
	SUPPLY SIDEWALL REGISTER	C.W.	COLD WATER
	RETURN / EXHAUST SIDEWALL REGISTER	CWS	CONDENSER WATER SUPPLY
	LINEAR SLOT DIFFUSER WITH RETURN AIR PLENUM	CWR	CONDENSER WATER RETURN
	LINEAR SLOT DIFFUSER WITH SUPPLY AIR PLENUM	DB	DRY BULB
	AIR DEVICE TAG (REFER TO SCHEDULE FOR CONNECTION SIZE)	DM	DIAMETER
	SPIN-IN ELECTRIC DUCT HEATER	DISC	DISCONNECT
	SMOKE DETECTOR FOR REFERENCE (PROVIDED BY ELECTRICAL CONTRACTOR)	DN	DOWN
	NEW THERMOSTAT	DWG	DRAWING
	RELOCATED, DEMOLISH, & EXISTING THERMOSTAT	EA	EACH
	TEMPERATURE SENSOR	EAT	ENTERING AIR TEMPERATURE
	CARBON DIOXIDE SENSOR	EDH	ELECTRIC DUCT HEATER
	HUMIDITY SENSOR	ELEV	ELEVATION
	PRESSURE SENSOR	ELEC	ELECTRICAL
	CHILLED WATER RISER	E.S.P	EXTERNAL STATIC PRESSURE
	CONDENSER WATER RISER	ELUH	ELECTRIC UNIT HEATER
	HEATING HOT WATER RISER	EWAF	EVAPORATOR
	CONDENSATE RETURN RISER	EWT	ENTERING WATER TEMPERATURE
		EXH	EXHAUST
		EXIST	EXISTING
		FCO	FLOOR CLEAN OUT
		FCL	FAN COIL UNIT
		FCD	FLOOR DRAIN
		F.F.	FINISHED FLOOR
		FLA	FULL LOAD AMPS
		FLX	FLEXIBLE
		FLR	FLOOR
		F.O.	FLAT OVAL
		F.O.B.	FLAT ON BOTTOM TRANSITION
		F.O.T.	FLAT ON TOP TRANSITION
		FPM	FEET PER MINUTE
		FTU	FAN POWERED TERMINAL UNIT
		FT.	FEET / FOOT
		G.C.	GENERAL CONTRACTOR
		GPW	GALLONS PER MINUTE
		GPH	GALLONS PER HOUR
		HR	HOUR
		HP	HORSE POWER
		HW	HOT WATER
		HD	HUB DRAIN
		HORIZ	HORIZONTAL
		HD	HEAD (IN FEET)
		HT	HEIGHT
		IE	INVERT ELEVATION
		IN	INCHES
		INSUL	INSULATION
		INW	INDIRECT WASTE
		INT	INTERNAL AIR TEMPERATURE
		LVT	LEAVING WATER TEMPERATURE
		MAX	MAXIMUM
		MTH	THOUSAND BTUHR
		MECH	MECHANICAL
		MH	MANHOLE
		MIN	MINIMUM
		MVD	MANUAL VOLUME DAMPER
		N.C.	NORMALLY CLOSED
		N.I.C.	NOT IN CONTRACT
		N.O.	NORMALLY OPEN
		NO.	NUMBER
		NPW	NON POTABLE WATER
		NTS	NOT TO SCALE
		OA	OUTSIDE AIR
		OHU	OUTSIDE AIR HANDLING UNIT
		OSB	OPPOSED BLADE DAMPER
		OD	OVERFLOW/ROOF DRAIN
		OSBY	OUTSIDE STEM AND YOKE
		P.D.	PRESSURE DROP
		PH	PHASE
		PPM	PARTS PER MILLION
		P.R.V.	PRESSURE REDUCING VALVE
		PSI	POUNDS PER SQUARE INCH
		QTY.	QUANTITY
		RA	RETURN AIR
		RE	REFER OR REFERENCE
		REQ.	REQUIRED
		RD	(PRIMARY) ROOF DRAIN
		REV	REVISED OR REVISIONS
		R/R	REVOLUTIONS PER MINUTE
		RTU	ROOFTOP UNIT
		S.A.	SUPPLY AIR
		SAN	SANITARY
		S.H.	SENSIBLE HEAT
		S.P.	STATIC PRESSURE
		SQ.	SQUARE
		STD	STANDARD
		SURF	SURFACE
		SUSP.	SUSPEND OR SUSPENDED
		SW	SWITCH
		SVS	SYSTEM
		TEMP.	TEMPERATURE
		T.P.	TOTAL PRESSURE
		T.S.P.	TOTAL STATIC PRESSURE
		TSTAT.	THERMOSTAT
		TYP.	TYPICAL
		U.G.	UNDERGROUND
		UN/O	UNLESS NOTED OTHERWISE
		VAR	VARIABLE AIR VOLUME
		VEL	VELOCITY
		VERT.	VERTICAL
		VFD	VARIABLE FREQUENCY DRIVE
		VOL	VOLUME
		VSD	VARIABLE SPEED DRIVE
		W	WITH
		W/B	WET BULB
		WCO	WALL CLEAN OUT
		W.F.U.	WATER FIXTURE UNITS
		W.G.	WATER GAUGE
		WO	WITHOUT
		WT	WEIGHT

APPLICABLE CODES AND STANDARDS	
1. BUILDING CODE - 2021 IBC WITH CITY OF KELLER AMENDMENTS	
2. FIRE CODE - 2021 IFC WITH CITY OF KELLER AMENDMENTS	
3. ELECTRICAL CODE - 2020 NEC WITH CITY OF KELLER AMENDMENTS	
4. MECHANICAL CODE - 2021 IMC WITH CITY OF KELLER AMENDMENTS	
5. PLUMBING CODE - 2021 IPC WITH CITY OF KELLER AMENDMENTS	
6. OTHER - 2018 INTERNATIONAL ENERGY CONSERVATION CODE WITH CITY OF KELLER AMENDMENTS	
7. OTHER - LIFE SAFETY CODE (NFPA 101)	
8. OTHER - FEDERAL DEPARTMENT OF JUSTICE AMERICANS WITH DISABILITIES ACT AND TEXAS ACCESSIBILITY STANDARDS.	

GENERAL NOTES

- FURNISH AND INSTALL ALL ITEMS, INCLUDING EVERY ARTICLE, DEVICE, OR ACCESSORY REASONABLY NECESSARY TO FACILITATE EACH SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT SPECIFIED. ELEMENTS OF THE WORK SHALL INCLUDE, BUT ARE NOT LIMITED TO, MATERIALS, LABOR, SUPERVISION, SUPPLIES, EQUIPMENT, TRANSPORTATION, HOISTING/RIGGING, STORAGE, UTILITIES, AND ALL REQUIRED PERMITS AND LICENSES.
- DRAWINGS ARE SHOWN IN NATURE AND DO NOT NECESSARILY REFLECT ALL WORK REQUIRED TO COMPLETE PROJECT. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT AS REQUIRED TO COMPLETE PROJECT WITH DESIGN INTENT AT NO ADDITIONAL COST TO OWNER/TENANT. CONTRACTOR SHALL REQUEST ADDITIONAL INFORMATION IN CASES OF DOUBT.
- WORK SHALL COMPLY WITH THE MOST RECENT VERSION OF ALL APPLICABLE LAWS, RULES, REGULATIONS AND ORDINANCES OF ALL FEDERAL, STATE AND LOCAL AUTHORITIES. IN THE EVENT OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE LOCAL ENFORCING AUTHORITY, THE LATTER SHALL RULE. ANY MODIFICATION RESULTING THEREFROM SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR ARCHITECT/ENGINEER. THE CONTRACTOR SHALL REPORT ANY SUCH MODIFICATIONS TO THE ARCHITECT/ENGINEER AND SECURE HIS APPROVAL BEFORE PROCEEDING. SHOULD THE REQUIREMENTS OF THE CONTRACT DOCUMENTS EXCEED THE REQUIREMENTS OF THE CODES, THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE PROVIDED THEY ARE NOT IN CONFLICT WITH THOSE CODES.
- BEFORE SUBMITTING A BID, IT WILL BE NECESSARY FOR EACH CONTRACTOR WHOSE WORK IS INVOLVED TO VISIT THE SITE AND ASCERTAIN FOR HIMSELF THE CONDITIONS TO BE MET IN INSTALLING THE WORK AND MAKE PROVISIONS FOR THE CONDITIONS IN HIS FINAL PROPOSAL. FAILURE ON THE PART OF THE CONTRACTOR TO COMPLY WITH THIS REQUIREMENT SHALL NOT BE CONSIDERED JUSTIFICATION FOR THE OMISSION OR FAULTY INSTALLATION OF ANY WORK COVERED BY THE CONTRACT DOCUMENTS.
- CONSIDERATION SHALL NOT BE GRANTED FOR MISUNDERSTANDING OF THE SCOPE OR AMOUNT OF WORK TO BE PERFORMED. TENDER OF A PROPOSAL CONVEYS FULL CONTRACT AGREEMENT OF THE TERMS AND CONDITIONS SPECIFIED AND/OR INDICATED, SCHEDULED, OR IMPLIED ON THE CONTRACT DOCUMENTS, AND/OR REQUIRED BY THE NATURE OF THIS WORK.
- ALL WORK SHALL BE ARRANGED IN A NEAT, WELL ORGANIZED MANNER. ALL SERVICES SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO THE PRIMARY LINES OF THE BUILDING. LOCATE ALL OPERATING AND CONTROL EQUIPMENT PROPERLY TO PROVIDE EASY ACCESS AND ARRANGE ENTIRE WORK WITH ADEQUATE ACCESS FOR OPERATION AND MAINTENANCE, AND FOR PROPER CODE AND/OR MANUFACTURERS CLEARANCES.
- ALL EQUIPMENT AND MATERIAL TO BE FURNISHED AND INSTALLED ON THIS PROJECT SHALL BE UL OR ETL LISTED, IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION, AND SUITABLE FOR ITS INTENDED USE ON THIS PROJECT.
- THE CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL NEW EQUIPMENT, CONTROLS, AND FIXTURES TO BE PROVIDED. SUBMIT MINIMUM FOUR (4) COPIES FOR APPROVAL.
- THE FOLLOWING SUBMITTAL DATA SHALL BE FURNISHED AND SHALL INCLUDE BUT NOT BE LIMITED TO:
 - EQUIPMENT AND MATERIALS SHOP DRAWINGS
 - COORDINATION DRAWINGS
 - RECORD DRAWINGS
 - OPERATING AND MAINTENANCE MANUALS
 - FIRE STOP MATERIALS AND DETAILS
- THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL COORDINATE THE INSTALLATION OF DUCTWORK, PIPING, CONDUIT, CABLE, ETC., WITH LIGHTING FIXTURES, SPECIAL CEILING CONSTRUCTION, AIR DISTRIBUTION EQUIPMENT, AND THE STRUCTURE. PROVIDE ADDITIONAL RISERS AND OFFSETS AS REQUIRED. IF, AFTER INSTALLED, NEW DUCTWORK, PIPING, CONDUIT, CABLE, ETC., IS FOUND TO BE IN CONFLICT WITH THE ARCHITECTURE, STRUCTURE OR OTHER TRADE WORK, WHICH IS EITHER EXISTING OR SHOWN ON THE CONTRACT DOCUMENTS, THE DUCTWORK, PIPING, CONDUIT, CABLE, ETC., SHALL BE RELOCATED WITHOUT ADDITIONAL COST TO THE OWNER/TENANT. COORDINATE ALL WORK COMPLETELY WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- MATERIALS AND EQUIPMENT SHALL BE NEW AND IN GOOD CONDITION. THE COMMERCIAL STANDARD ITEMS OF EQUIPMENT AND THE SPECIFIC NAMES INDICATED ARE INTENDED TO IDENTIFY STANDARDS OF QUALITY AND PERFORMANCE NECESSARY FOR THE PROPER FUNCTIONING OF THE WORK. MATERIALS AND EQUIPMENT, WHICH ARE FOUND TO HAVE FACTORY DEFECTS SHALL BE REPLACED OR REPAIRED IN A MANNER ACCEPTABLE TO THE OWNER/TENANT AND ENGINEER AT NO ADDITIONAL COST TO THE OWNER/TENANT.
- DAMAGE CAUSED DURING CONSTRUCTION TO EXISTING MATERIALS/EQUIPMENT WILL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO OWNER. RE-SUPPORT ANY REMAINING PIPING OR DEVICES THAT WERE SUPPORTED BY WALLS BEING REMOVED.
- AREAS OF THE EXISTING BUILDING WILL BE OCCUPIED DURING CONSTRUCTION OF THIS PROJECT. NOISY, DUSTY, AND OTHER CONSTRUCTION OPERATIONS REQUIRED FOR WORK WHICH DISTURB OR CAUSE COMPLAINTS BY THE EXISTING BUILDING OCCUPANTS SHALL NOT BE ACCEPTABLE. ALL AFTER-HOUR OR OVERTIME WORK REQUIRED BY THE CONTRACTOR TO AVOID DISRUPTION OF EXISTING OCCUPANTS WILL BE AT NO COST TO THE OWNER/TENANT. THE CONTRACTOR SHALL USE CONSTRUCTION METHODS AND MATERIALS WHICH SHALL NOT ADVERSELY AFFECT THE INDOOR AIR QUALITY OF THE EXISTING OCCUPIED AREAS.
- THE WARRANTY PERIOD SHALL BE NO LESS THAN ONE (1) FULL YEAR, UNLESS SPECIFIED OTHERWISE AND SHALL INCLUDE AT LEAST ONE (1) FULL HEATING SEASON AND ONE (1) FULL COOLING SEASON DURING THE WARRANTY PERIOD. THE CONTRACTOR SHALL GUARANTEE THE FOLLOWING IN A FORM SATISFACTORY TO THE OWNER/TENANT:
 - ALL WORK INSTALLED SHALL BE FREE FROM ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS.
 - ALL APPARATUS WILL DEVELOP CAPACITIES AND PERFORMANCE CHARACTERISTICS SPECIFIED.
 - THE SYSTEMS SHALL OPERATE WITHOUT MALFUNCTION.
- THE START OF THE CONTRACTOR'S WARRANTY PERIOD SHALL COMMENCE ON THE DATE OF "SUBSTANTIAL COMPLETION" AS AGREED TO BY THE OWNER/TENANT.
- PORTIONS OF THE BUILDING WILL BE IN USE AND OCCUPIED DURING THE CONSTRUCTION PERIOD OF THIS PROJECT. ALL BUILDING SERVICES, UTILITIES, POWER, CHILLED WATER, FIRE PROTECTION, AND DOMESTIC COLD AND HOT WATER WHICH WILL BE REQUIRED FOR THIS PROJECT MAY NOT BE DISRUPTED FOR ANY REASON WITHOUT PRIOR COORDINATION WITH A REPRESENTATIVE OF BUILDING MANAGEMENT AND THE OWNER AND A WRITTEN AUTHORIZATION FROM THE BUILDING MANAGER AND OWNER DESIGNATING A DATE, TIME, AND DURATION THAT ARE APPROVED BY THE BUILDING MANAGER AND OWNER FOR SUCH DISRUPTION. AN ADDITIONAL ADVANCE NOTIFICATION OF SEVEN (7) DAYS SHALL BE GIVEN TO THE BUILDING MANAGER AND OWNER PRIOR TO EACH DISRUPTION.
- THIS BUILDING MAY HAVE A STRUCTURAL SYSTEM UTILIZING POST-TENSIONED CABLES. THE CONTRACTOR SHALL DETERMINE THE EXISTING STRUCTURAL SYSTEM PRIOR TO CUTTING, DRILLING, OR CORING. THE CONTRACTOR SHALL X-RAY ALL PENETRATIONS PRIOR TO CUTTING THE FLOOR SLAB.
- THIS CONTRACTOR SHALL SECURE ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED FOR HIS WORK, AND SHALL PAY ALL FEES IN CONNECTION WITH SUCH PERMITS, LICENSES AND INSPECTIONS.
- IN THE EVENT OF A CONFLICT BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE GREATER AMOUNT OF TOTAL COST SHALL BE PRICED. BRING THE CONFLICT TO THE ATTENTION OF THE ENGINEER AND REQUEST DIRECTION.
- PENETRATIONS THROUGH FLOORS OR FIRE-RATED CONSTRUCTION SHALL BE FIRESAFED TO COMPLY WITH ASTM E-814 (UL 1479), AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, A COMPLETE SET OF "AS BUILT" DRAWINGS PORTRAYING ACTUAL SITE CONDITIONS OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION WORK. SUBMISSION SHALL CONSIST OF ONE SET OF PAPER COPIES AND ONE SET OF CAD FILES IN AUTOCAD V.2013 (OR NEWER) FORMAT WITH THE OWNERS STANDARD LAYERING SCHEME.
- NO PRODUCTS ON THIS PROJECT SHALL CONTAIN UREA-FORMALDEHYDE.
- ALL COATINGS, ADHESIVES, AND SEALANTS APPLIED ON-SITE TO THE BUILDING EXTERIOR MUST NOT EXCEED THE CURRENT VOC LIMIT OF SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQM) RULE 1113 AND RULE 1168.
- REFER TO COMMISSIONING SUMMARY TEMPLATE FOR MECHANICAL EQUIPMENT TO BE COMMISSIONED AND TO BASE BUILDING SPECIFICATIONS FOR ALL COMMISSIONING REQUIREMENTS RELATED TO AUSTIN ENERGY GREEN BUILDING (AEGB).

MECHANICAL GENERAL NOTES

- ALL EXISTING DUCTWORK AND PIPING SIZES AND LOCATIONS ARE TAKEN FROM BEST AVAILABLE RECORDS, DOCUMENTS AND SITE OBSERVATIONS. MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND SHALL INCLUDE IN HIS BID THE COST OF REPLACEMENT, REPAIR, RELOCATION OR REMOVAL OF EXISTING MEP ELEMENTS AS REQUIRED TO COMPLETE INSTALLATION OF ALL SYSTEMS SHOWN ON THESE DRAWINGS PRIOR TO SUBMITTING A BID.
- THE CONTRACTOR SHALL VERIFY THAT ALL NEW EXISTING AND RELOCATED TERMINAL UNITS ARE MOUNTED SO THAT ALL REQUIRED CLEARANCES ARE MAINTAINED AT THE BOTTOM AND SIDES OF EACH UNIT (FOR PROPER SERVICING AND MAINTENANCE). COORDINATE COMPLETELY WITH ALL NEW WALLS TO STRUCTURE, AND RELOCATE TERMINAL UNITS AS REQUIRED TO MAINTAIN PROPER CLEARANCES. NOTIFY ENGINEER AND ARCHITECT IMMEDIATELY.
- EXISTING AIR DEVICES SHALL BE REUSED IF THEY MATCH MANUFACTURER AND MODEL NUMBER, NECK SIZE AND PERFORMANCE OF AIR DEVICES AS LISTED IN THE AIR DEVICE SCHEDULE IN THIS DRAWING. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND TAKE INVENTORY OF EXISTING AIR DEVICES WITHIN THE SPACE PRIOR TO SUBMITTING A BID. ALL REUSED AIR DEVICES SHALL BE CLEANED AND REPAIRED AS REQUIRED TO RETURN TO LIKE-NEW CONDITION.
- EXISTING SPIN-IN CONNECTIONS MAY BE REUSED IF LOCATED WITHIN 3'-0" OF NEW CONNECTION SHOWN ON DRAWING. ALL SPIN-IN CONNECTION NOT USED SHALL BE REMOVED AND DUCTWORK SHALL BE PATCH WITH SHEET METAL, SEALED AND RE-INSULATED TO MATCH EXISTING.
- NO MECHANICAL EQUIPMENT SHALL HAVE SPRINKLER PIPING BLOCKING BOTTOM-MOUNTED ACCESS PANELS. OFFSET NEW AND EXISTING SPRINKLER PIPING AS REQUIRED. EXISTING FAN POWERED TERMINAL BOXES MOUNTED ABOVE OR ADJACENT TO WALLS WHERE ACCESS IS OBSTRUCTED SHALL BE RELOCATED AS REQUIRED.
- DIVISION 21 THRU 26 SUBCONTRACTORS SHALL COORDINATE THEIR WORK TO MAINTAIN A MINIMUM OF 6" TENANT FLEXIBILITY ZONE.
- PROVIDE REMOTE DAMPER OPERATORS FOR ALL SPIN-IN DAMPERS LOCATED ABOVE INACCESSIBLE CEILING. OPERATORS SHALL BE ROTO-TWIST (OR APPROVED EQUAL) CABLE-TYPE OPERATORS, CONCEALED WITHIN DUCT RUN-OUT TO DEVICE, AND ACCESSIBLE OR BALANCING FROM FACE OF AIR DEVICE. PROVIDE REQUIRED CABLE LENGTHS, MOUNTING CLIPS, AND ALL OTHER REQUIRED COMPONENTS FOR PROPER INSTALLATION AND OPERATION.

MECHANICAL GENERAL NOTES (CONTINUED)

- PRIMARY AND SECONDARY DUCTWORK SHALL HAVE EXTERNAL INSULATION INSTALLED ON TOP SIDE OF DUCTWORK PRIOR TO HANGING DUCTWORK. INSULATION SHALL BE INSTALLED WITH INSULATION TIGHT TO STRUCTURE. DO NOT COMPRESS INSULATION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BRING TO THE ENGINEER'S ATTENTION ANY WALLS THAT EXTEND FROM THE FINISHED FLOOR TO STRUCTURE AND REQUIRE RETURN AIR PATHWAYS. RETURN AIR BOOTHS SHALL BE INSTALLED TO PROVIDE CROSS SECTIONAL AREA EQUIVALENT TO 500 FPM OF AIRFLOW BASED ON THE SUPPLY AIR CFM TO THE ROOM DEMAND. PROVIDE RIGID DUCTWORK.
- FINAL LOCATION OF ALL NEW EQUIPMENT PRIOR TO EQUIPMENT INSTALLATION SHALL BE APPROVED BY BUILDING OWNER OR PROJECT MECHANICAL ENGINEER.
- DURING CONSTRUCTION, SEAL ALL OPEN DUCTS WITH PLASTIC TO PREVENT DUST/DIRT. CLEAN ALL INTERIOR DUCT SURFACES PRIOR TO DUCT INSTALLATION. ALL VAV TERMINAL UNIT FILTERS SHALL BE MAINTAINED DURING CONSTRUCTION AND REPLACED AT THE END OF CONSTRUCTION. PROVIDE CONSTRUCTION FILTERS OVER AIR HANDLING UNIT INTAKES AND MAINTAIN FILTER MEDIA DURING CONSTRUCTION. REPLACE ALL FILTERS AT END OF CONSTRUCTION. ALL RETURN AIR INTAKES TO MECHANICAL ROOM SHALL BE COVERED WITH FILTER MEDIA DURING CONSTRUCTION. REMOVE UPON COMPLETION.
- SEAL ALL NEW AND EXISTING PIPE, CONDUIT, AND DUCT PENETRATIONS THRU FIRE RATED WALLS WITH FIRE CAULKING. FIRE CAULKING SHALL BE EQUAL TO 3M BRAND CP203HS FIRE CAULK. INSTALL CAULKING IN STRICT ACCORDANCE WITH ALL MANUFACTURERS RECOMMENDATIONS AND WRITTEN INSTRUCTIONS AND IN ACCORDANCE WITH ALL APPLICABLE UL DETAILS.
- MECHANICAL EQUIPMENT SHALL BE IDENTIFIED BY MEANS OF NAMEPLATES PERMANENTLY ATTACHED TO THE EQUIPMENT. NAMEPLATES SHALL BE BLACK SURFACE, WHITE CORE LAMINATED BAKELITE WITH ENGRAVED LETTERS. PLATES SHALL BE A MINIMUM OF 3-1/2" LONG BY 1-1/2" WIDE WITH WHITE LETTERS 1/4" HIGH.
- WHERE THERMOSTATS ARE LOCATED ADJACENT TO LIGHTING FIXTURE SWITCHES, THE THERMOSTAT SHALL BE ALIGNED WITH THE SWITCH. DO NOT MOUNT THERMOSTAT ABOVE DIMMING LIGHT SWITCHES. REFER TO DETAIL.
- CONTRACTOR SHALL PROVIDE TAG (BLACK LETTERS ON CLEAR TAPE) ON CEILING GRID, WITH UNIT NUMBER, AT FILTER ACCESS POINTS FOR ALL VAV AND FTU'S.
- EXPOSED DUCTWORK**
WHERE DUCTWORK IS INDICATED TO BE EXPOSED TO VIEW IN OCCUPIED SPACES, PROVIDE MATERIALS WHICH ARE FREE FROM VISIBLE IMPERFECTIONS INCLUDING PITTING, DENTS, AND OTHER IMPERFECTIONS THAT WOULD IMPAIR PAINTING, WHERE PAINTING IS INDICATED ON DRAWINGS. MATERIAL SHALL BE MILL PHOSPHATIZED GALVANNEAL SHEETMETAL INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S TREATMENT OTHER THAN NORMAL CLEANING.

MECHANICAL SPECIFICATIONS

DUCTWORK AND SHEETMETAL

- DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH CONSTRUCTION REQUIREMENTS SPECIFIED IN THE 2008 SMACNA EDITION OF "HVAC DUCT CONSTRUCTION STANDARDS", EXCEPT WHERE SMACNA REQUIREMENTS ARE EXCEEDED IN THESE SPECIFICATIONS.
- MAXIMUM ALLOWABLE DUCTWORK LEAKAGE, AS A PERCENTAGE OF AIR SYSTEM VOLUME, SHALL BE 2%.
- THE INTERIOR SURFACE OF ALL DUCTWORK SHALL BE SMOOTH WITH NO SHEET METAL OR OTHER PARTS PROJECTING INTO THE AIR STREAM. ALL SEAMS AND JOINTS SHALL BE EXTERNAL. THE INSIDE OF ALL DUCTWORK SHALL BE THOROUGHLY CLEANED AND ALL FANS OPERATED TO REMOVE ANY DEBRIS PRIOR TO CONNECTION OF AIR DISTRIBUTION DEVICES.
- ALL DUCTWORK DIMENSIONS ON THE DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
- INSTALL ALL DUCTWORK TIGHT TO STRUCTURE UNLESS OTHERWISE NOTED. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES PRIOR TO THE CONSTRUCTION OR INSTALLATION OF DUCTWORK.
- ALL TRANSVERSE DUCT JOINTS, LONGITUDINAL SEAMS AND DUCT WALL PENETRATIONS SHALL BE SEALED REGARDLESS OF DUCT PRESSURE CLASSIFICATION. SEALER SHALL BE RATED BY MANUFACTURER AND SHALL BE SUITABLE FOR USE AT THE SYSTEM STATIC PRESSURE CLASSIFICATION OF THE DUCTWORK APPLIED. DUCTWORK SEALANT SHALL BE HARDCAST "VERSAGRIP 181" OR APPROVED EQUAL. SEALANT SHALL BE SUITABLE FOR USE INDOORS AND OUTDOORS. SEALANT SHALL BE WATER BASED. SEALANT SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS. SEALANT SHALL BE LISTED IN ACCORDANCE WITH UL 181A OR UL 181B, AS REQUIRED IN THE INTERNATIONAL ENERGY CONSERVATION CODE. DUCT SEALANT SHALL BE APPLIED PER MANUFACTURERS INSTRUCTIONS. MINIMUM DRYING TIME SHALL BE ALLOWED PER MANUFACTURERS INSTRUCTIONS. ADDITIONAL TIME FOR DRYING SHALL BE ALLOWED IN CLIMATES WHERE TEMPERATURE AND HUMIDITY MAY AFFECT THE CURING OF THE SEALANT. SEALANT SHALL BE ALLOWED TO COMPLETELY DRY AND HARDEN BEFORE AIR IS CIRCULATED THROUGH THE DUCTWORK. THE USE OF DUCT TAPE FOR SEALING OF METAL DUCTS IS PROHIBITED UNLESS THE TAPE IS PART OF AND IN CONJUNCTION WITH A MULTI-PART SEALING SYSTEM (I.E. ADHESIVE, TAPE, COATING, ETC.).
- ALL ROUND TAKE-OFFS IN LOW PRESSURE DUCTWORK SHALL BE MADE WITH A DAMPER EXTRACTOR SPIN-IN COLLAR WITH A 2" STAND-OFF LOCKING QUADRANT. SPIN-IN'S SHALL BE INSTALLED WITH THEIR DAMPER AXIS PARALLEL TO AIR FLOW.
- ALL LONGITUDINAL SEAMS SHALL BE "PITTSBURGH LOCK" OR BUNTON PUNCH SNAP LOCK AT CORNER SEAMS AND GROOVED (ACME) SEAM OR SEAM WELDED IN SIDES BETWEEN CORNERS.
- FLEXIBLE DUCT FABRIC CONNECTIONS SHALL BE INSTALLED ON THE INLET AND OUTLET CONNECTIONS TO ALL POWERED AIR MOVING EQUIPMENT NOT CONNECTED WITH FLEXIBLE DUCT ATTACHED DIRECTLY TO INLET OR DISCHARGE PLENUM. A MINIMUM OF 1" OF SLACK SHALL BE ALLOWED IN ALL FLEXIBLE CONNECTIONS TO INSURE VERTICALLY FATIGUE. FLEXIBLE FABRIC SHALL BE A MINIMUM OF 3 INCHES WIDE WITH "GRIP-LOC" SEAM TO 24 GAUGE GALVANIZED METAL SIDE CONNECTORS A MINIMUM OF 3 INCHES WIDE EACH. FLEXIBLE CONNECTIONS ARE TO BE FABRICATED WITH DURO DYNE EXCELON "METAL-FAB" VINYL COATED 22 OZ. NYLON WITH 24 GAUGE GALVANIZED METAL SIDE CONNECTORS OR "APPROVED EQUAL".
- ALL DUCTWORK SUPPORTS SHALL BE PER TABLE 4-1 OF THE SMACNA MANUAL WITH ALL SUPPORTS DIRECTLY ANCHORED TO THE BUILDING STRUCTURE. SUPPORTS SHALL BE ON MAXIMUM 8'-0" CENTERS WITH ADDITIONAL SUPPORTS AS REQUIRED TO PREVENT SAGGING.

DUCTWORK INSULATION

- ALL DUCTWORK INSULATION SHALL HAVE A COMPOSITE (INSULATION, JACKET, OR FACING) AND ADHESIVE USED TO ADHERE THE FACING OR JACKET TO THE INSULATION FIRE AND SMOKE HAZARD RATING AS TESTED BY PROCEDURE ASTM E84, NFPA 225 AND UL 723, NOT EXCEEDING:

FLAME SPREAD	25
SMOKE DEVELOPED	50
- ALL DUCTWORK AND SHEET METAL DESIGNED TO SERVE THE FOLLOWING AREAS SHALL BE EXTERNALLY INSULATED:
 - CONCEALED INTERIOR AND PERIMETER SUPPLY & RETURN DUCTWORK.
 - UNTREATED OUTSIDE AIR SYSTEMS EXCEPT WHERE DUCT WILL BE EXPOSED. SHALL BE DOUBLE-WALL DUCT WHERE EXPOSED, DUCT SHALL BE DOUBLE-WALL CONSTRUCTION.
 - ALL RIGID ROUND AND FLEXIBLE SUPPLY & RETURN DUCTWORK NOT FACTORY INSULATED.
 - ALL OTHER SYSTEMS SPECIFICALLY INDICATED ON THE DRAWINGS.
- ALL DUCTWORK AND SHEET METAL DESIGNED TO SERVE THE FOLLOWING AREAS SHALL BE INTERNALLY LINED:
 - PRE-TREATED OUTSIDE AIR DUCTWORK.
 - ALL SUPPLY OR RETURN DUCTWORK NOT REQUIRED TO BE EXTERNALLY INSULATED.
 - EXPOSED TO VIEW SUPPLY / RETURN DUCTWORK.
- DUCT INSULATION THICKNESS AND APPLICATION SCHEDULE. INSULATE DUCTS AND BACKSIDES OF SUPPLY & DUCTED RETURN AIR DEVICES WITH THE FOLLOWING MATERIALS AND THICKNESS:
 - CONCEALED APPLICATIONS (INSULATED PLENUM): FIBERGLASS BLANKET, WITH A MINIMUM OF 1-INCH THICKNESS AND AN INSTALLED R-VALUE OF R-6 OR GREATER.
 - CONCEALED APPLICATIONS (UN-INSULATED PLENUM): FIBERGLASS BLANKET, WITH A MINIMUM OF 1-1/2-INCH THICKNESS AND AN INSTALLED R-VALUE OF R-8 OR GREATER.
 - EXPOSED APPLICATIONS: FIBERGLASS BOARD, WITH A MINIMUM OF 1-INCH THICKNESS AND AN INSTALLED R-VALUE OF R-6 OR GREATER.
 - OUTDOOR APPLICATIONS: DOUBLE WALL DUCT CONSTRUCTION WITH FIBERGLASS BOARD INSULATION BETWEEN INNER AND OUTER JACKET, MINIMUM OF R-8.

EXTERNAL DUCTWRAP INSULATION

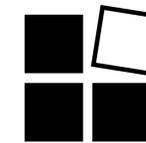
- INSULATION SHALL BE SCHULLER R-SERIES MICROULTE FSK, OWENS-CORNING TYPE ED100, OR CERTAINTED TYPE 100 DUCT WRAP FSK FLEXIBLE GLASS FIBER BLANKET.
- INSULATION SHALL HAVE AN AVERAGE THERMAL CONDUCTIVITY (K-VALUE) OF NO MORE THAN 0.27.
- INSULATION SHALL BE FURNISHED WITH A FACTORY APPLIED FOIL-SCRAM-KRAFT FACING CONSISTING OF 0.3 MIL ALUMINUM FOIL REINFORCED WITH FIBERGLASS FIBER MESH AND LAMINATED TO 40 POUND CHEMICALLY TREATED AND FIRE RESISTANT WHITE KRAFT PAPER.

INTERNAL DUCT LINER INSULATION

- INTERNAL DUCT LINER INSULATION SHALL BE 2 POUND DENSITY MANVILLE LINA-COUSTIC OR OWENS-CORNING AEROFLEX FIBERGLASS OR CERTAINTED ULTRALITE. THE LINER SHALL MEET THE LIFE SAFETY STANDARDS.
- THE DUCT LINER SHALL HAVE A CONDUCTANCE FACTOR NOT EXCEEDING 0.26 BTU/IN-HR-SQ-FT AT 75°F MEAN TEMPERATURE.

INSTALLATION OF DUCTWORK INSULATION

- ALL INSULATION SHALL BE APPLIED WITH EDGES TIGHTLY STITCHED WITH STAPLES ON 3" CENTERS. THE INSULATION SHALL BE APPLIED TO THE BOTTOM OF ALL SQUARE DUCTS 24" OR WIDER BY MEANS OF WELDED PINS AND SPEED CLIPS ON 12" CENTERS.
- DUCTWORK INTERNAL LINER SHALL BE APPLIED WITH 100% COVERAGE OF CHILDERS CP-88, FOSTER 81-10, OR MEI 22-22 (SHOP APPLICATION), CHILDERS CP-80, FOSTER 85-20, OR MEI 22-25 (FIELD APPLICATION).
- THE LINER SHALL BE ADDITIONALLY SECURED WITH MECHANICAL FASTENERS ON MAXIMUM 15" CENTERS ON DUCTS 20" OR MORE WIDE OR DEEP. FASTENERS SHALL START WITHIN 2" OF THE LEADING EDGE OF EACH SECTION AND WITHIN 3" OF THE LEADING EDGE OF ALL TRANSVERSE JOINTS WITHIN THE DUCT SECTION.
- THE VAPOR BARRIER FACING SHALL BE THOROUGHLY SEALED AT JOINTS, CUTS, TEARS AND WHERE THE PINS HAVE PIERCED THROUGH THE VAPOR BARRIER WITH 3" PRESSURE SENSITIVE ALUMINUM FOIL VAPOR BARRIER TAPE.
- ALL LINER INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA "DUCT LINER APPLICATION STANDARD 2ND EDITION" AND NAIMA "FIBROUS GLASS DUCT LINER STANDARD (FGDLS)".



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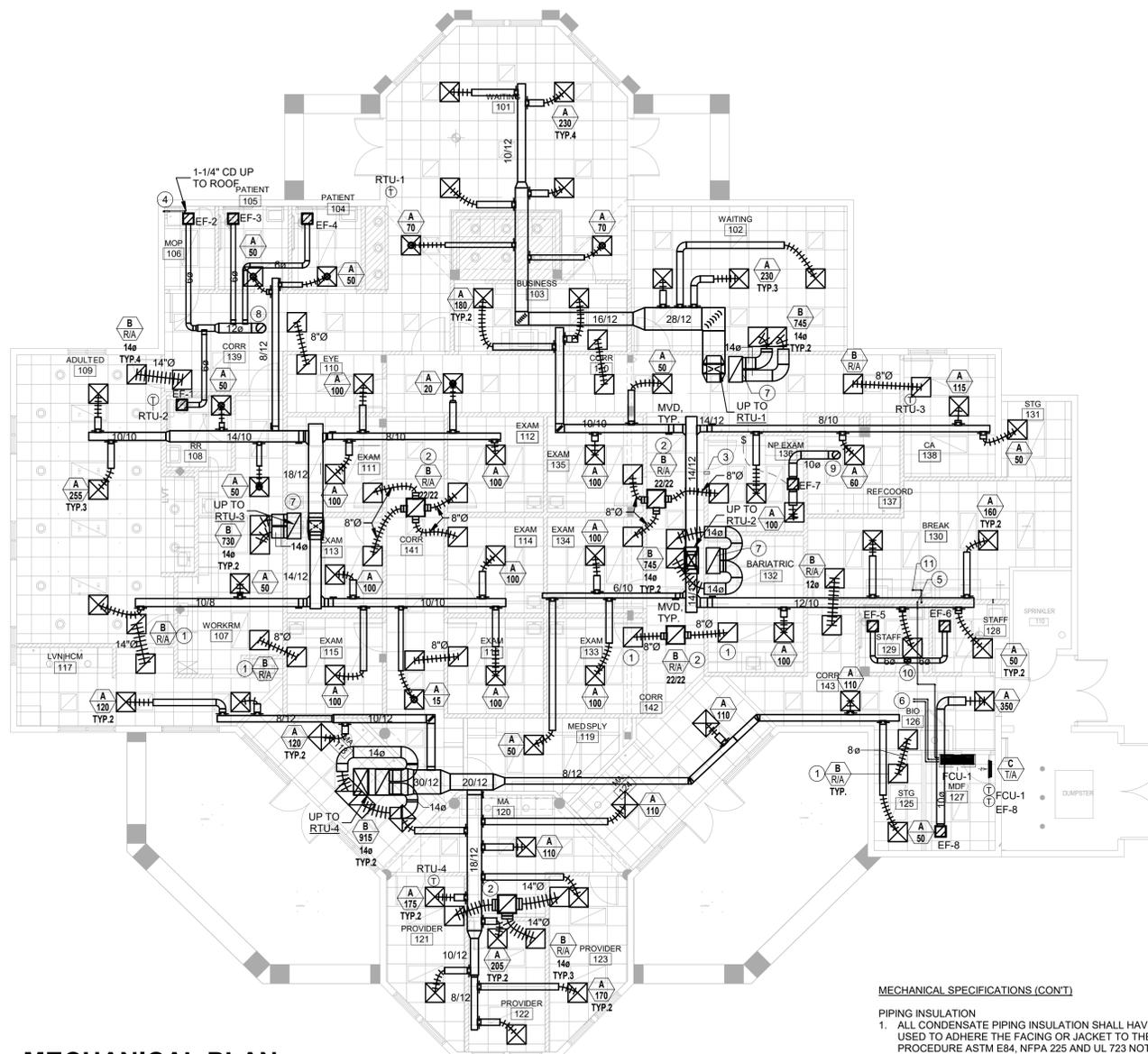
SHEET TITLE

PROJECT NO: WTX07J
DATE: 05.31.24
REVISION DATES:

MECHANICAL PLAN

SHEET NUMBER

M2.1



1 MECHANICAL PLAN

1/8" = 1'-0"

(X) MECHANICAL KEYED NOTES:

- RETURN AIR DEVICE IN ENCLOSED OFFICE MAY BE PROVIDED WITH NECK SIZES EQUAL TO THE FLEX DUCT SHOWN ON PLANS. RETURN AIR DEVICES WHERE MULTIPLE FLEXIBLE JUMPER DUCTS (OR AS OTHERWISE NOTED) ARE CONNECTING SHALL HAVE 22"x22" NECKS, FULL SIZE PLENUMS, AND CONNECTIONS TO MULTIPLE FLEX DUCTS OF INDICATED SIZES AND QUANTITIES.
- PROVIDE 22"x22" PLENUM ON AIR DEVICE NECK. CONNECT FLEXIBLE DUCT, SIZED AS INDICATED, TO FULL SIZE PLENUM.
- PROVIDE BALL-IN-THE-WALL, EQUAL TO ADI-69-V-N. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 1-1/4" CONDENSATE DRAIN PIPING FROM ROOF DOWN TO INDIRECT WASTE RECEPTOR. REFER TO PLUMBING PLANS FOR EXACT LOCATION.
- ROUTE PUMPED 3/4" CONDENSATE TO LAVATORY TAILPIECE. PROVIDE Y-FITTING AND INSULATE HORIZONTAL WASTE PIPING BELOW LAVATORY.
- REFRIGERANT PIPING UP TO ROOF. COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS.
- ROUTE PROVIDE FULL SIZED RETURN DUCT DOWN FROM ROOFTOP UNIT. TAP WITH SPIN-IN DAMPERS WITH LOCKING QUADRANTS AS INDICATED FOR RETURN AIR.
- 12"Ø EXHAUST DUCT UP TO RH-1 ON THE ROOF.
- 10"Ø EXHAUST DUCT UP TO RH-2 ON THE ROOF.
- 8"Ø EXHAUST DUCT UP TO RH-3 ON THE ROOF.
- ROUTE 1-1/4" CONDENSATE DRAIN TO HUB DRAIN BELOW SINK. SLOPE DOWN AT 1/8"/FT. AND PROVIDE 1" AIR GAP AT TERMINATION.

MECHANICAL SPECIFICATIONS (CONT)

PIPING INSULATION

- ALL CONDENSATE PIPING INSULATION SHALL HAVE A COMPOSITE (INSULATION JACKET OR FACING, AND ADHESIVE USED TO ADHERE THE FACING OR JACKET TO THE INSULATION) FIRE AND SMOKE HAZARD RATING AS TESTED BY PROCEDURE ASTM E84, NFPA 225 AND UL 723 NOT EXCEEDING:
FLAME SPREAD 25
SMOKE DEVELOPED 50

- INSULATE ALL INTERIOR CONDENSATE DRAIN PIPING WITH 1/2" THICKNESS "AP ARMAFLEX" OR RUBATEX R-180-FS FLEXIBLE ELASTOMER PIPE INSULATION. PROVIDE PROTECTION AND BLOCKING AND SHIELDS AT EACH HANGER FOR EXTERIOR EXPOSED INSULATED PIPING. PROVIDE OUTER JACKET AND WRAP COMPLETELY AROUND. OUTER JACKET SHALL BE 1577CW-E (NATURAL ALUMINUM EMBOSSED) VENTURE CLAD JACKETING SYSTEM.

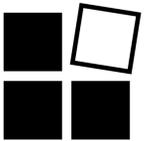
- REFRIGERANT PIPING SHALL BE INSULATED WITH "AP ARMAFLEX", "RUBATEX" R-180-FS FLEXIBLE ELASTOMER PIPE INSULATION, OR FIBERGLASS INSULATION WITH ALL SERVICE-JACKET AS INDICATED. WHERE FIBERGLASS INSULATION IS USED, ELBOWS AND FITTINGS SHALL BE INSULATED AND COVERED WITH ZESTON 2000 25/50 FIRE/SMOKE RATED PVC JACKET. PROVIDE 2-COATS OF ARMAFLEX FINISH WHEN ELASTOMER INSULATION IS SUBJECT TO DAYLIGHT. FOR EXTERIOR EXPOSED INSULATED PIPING PROVIDE OUTER JACKET AND WRAP COMPLETELY AROUND. OUTER JACKET SHALL BE 1577CW-E (NATURAL ALUMINUM EMBOSSED) VENTURE CLAD JACKETING SYSTEM.
INSULATION THICKNESS:
PIPING 1-1/4" AND SMALLER 1-INCH THICKNESS ELASTOMER INSULATION
PIPING 1-1/2" AND LARGER 1-1/2" THICKNESS FIBERGLASS INSULATION

PIPING MATERIALS

- CONDENSATE AND AUXILIARY DRAIN PIPING SHALL BE ASTM B88-72 TYPE "L" HARD DRAWN COPPER WITH ASTM B32-76 GRADE 95TA TIN-ANTIMONY SOLDERED JOINTS.
- REFRIGERANT PIPING SHALL BE TYPE L HARD DRAWN "ACR" TUBING THAT HAS BEEN CLEANED AND CAPPED FOR REFRIGERATION SERVICE. FITTINGS TO BE WROUGHT COPPER INSTALLED WITH HARRIS 15% SILPHOS SILVER SOLDER JOINTS. PIPE ENDS AND FITTINGS SHALL BE CAREFULLY CLEANED PRIOR TO JOINING. ACID SHALL NOT BE USED IN CLEANING OR AS A FLUX. BLEED NITROGEN THROUGH ALL PIPING WHILE SOLDERING. PIPE SIZES TO BE AS RECOMMENDED BY THE CONDENSING UNIT MANUFACTURER. SHOP DRAWINGS SHOWING ALL TRAPS, PIPE SIZES, LINE SIZING CALCULATIONS, AND ACCESSORIES SHALL BE SIGNED BY A REPRESENTATIVE OF THE CONDENSING UNIT MANUFACTURER, INDICATING THEIR APPROVAL. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING EQUIPMENT. PROVIDE REPLACEABLE CORE TYPE LIQUID LINE FILTER DRYER SIZED FOR SYSTEM CAPACITY (2 PSI DROP PER ARI 710), SIGHT GLASS MOISTURE INDICATOR, THERMAL EXPANSION VALVE WITH ADJUSTABLE SUPERHEAT, REFRIGERANT SHUT-OFF, RELIEF AND SOLENOID VALVES AS REQUIRED. SLOPE ALL SUCTION LINES AND PROVIDE SUCTION LINE TRAPS TO FACILITATE OIL RETURN TO COMPRESSOR. ALL PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REFRIGERANT PIPING SHALL BE TESTED WITH DRY NITROGEN AT 250 PSI FOR 24 HOURS. ISOLATE EXPANSION VALVES AND OTHER DEVICES THAT WOULD BE DAMAGED BY THIS HIGH PRESSURE. TEST ALL JOINTS WITH A SOAP SOLUTION. AFTER THE INITIAL PRESSURE TEST HAS BEEN COMPLETED, INTRODUCE A MIXTURE OF REFRIGERANT AND NITROGEN AT 150 PSI AND TEST ALL JOINTS USING A HFC DETECTOR. FOLLOWING THE SATISFACTORY COMPLETION OF ALL TESTS, EVACUATE THE SYSTEM WITH A VACUUM PUMP CONNECTED TO THE LIQUID LINE. AFTER 20-INCHES OF VACUUM IS OBTAINED, CLOSE SUCTION AND DISCHARGE VALVES AT THE COMPRESSOR AND CONTINUE EVACUATION FOR 24 HOURS. AFTER DEHYDRATION IS COMPLETE, INTRODUCE PROPER REFRIGERANT INTO SYSTEM THROUGH A FILTER/DRYER.

GENERAL NOTES:

- REFER TO MECHANICAL SCHEDULES AND DETAIL DRAWINGS FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATIONS OF ALL EQUIPMENT, DUCTWORK, & PIPING PRIOR TO SUBMITTING A BID. COORDINATE COMPLETELY WITH ALL OTHER TRADES.
- COORDINATE ALL MECHANICAL WORK COMPLETELY WITH ALL OTHER TRADES, PRIOR TO PURCHASING, MANUFACTURING, AND INSTALLING DUCTWORK, PIPING, EQUIPMENT, ETC. THESE DRAWINGS ARE SCHEMATIC IN NATURE, PROVIDE ADDITIONAL DUCTWORK, PIPING, OFFSETS, AND FITTINGS AS REQUIRED.
- THE CONTRACTOR SHALL VERIFY THAT ALL MECHANICAL EQUIPMENT ARE MOUNTED SO THAT ALL REQUIRED CLEARANCES ARE MAINTAINED AT THE BOTTOM AND SIDES OF EACH UNIT FOR PROPER SERVICING AND MAINTENANCE. COORDINATE COMPLETELY WITH ALL NEW WALLS TO STRUCTURE, AND RELOCATE AS REQUIRED TO MAINTAIN PROPER CLEARANCES.
- MAINTAIN CODE REQUIRED AND MANUFACTURER'S RECOMMENDED CLEARANCES FOR ALL EXISTING AND NEW EQUIPMENT.
- CONTRACTOR SHALL VERIFY THAT EQUIPMENT PURCHASED WILL FIT IN THE SPACE INCLUDING ANY CLEARANCES REQUIRED FOR MAINTENANCE, ACCESS OR OPERATION. REFER TO MANUFACTURER'S INSTALLATION MANUALS FOR ADDITIONAL INFORMATION.
- DURING CONSTRUCTION, SEAL ALL OPEN DUCTS WITH PLASTIC TO PREVENT DUST/DIRT. CLEAN ALL INTERIOR DUCT SURFACES PRIOR TO DUCT INSTALLATION. PROVIDE CONSTRUCTION FILTERS OVER AIR HANDLING UNIT INTAKES AND MAINTAIN FILTER MEDIA DURING CONSTRUCTION. REPLACE ALL FILTERS AT END OF CONSTRUCTION. ALL RETURN AIR INTAKES TO MECHANICAL ROOM SHALL BE COVERED WITH FILTER MEDIA DURING CONSTRUCTION. REMOVE UPON COMPLETION.
- EQUIPMENT SHALL BE LABELED WITH ITS APPROPRIATE TAG. REFER TO MECHANICAL COVER SHEET FOR ADDITIONAL INFORMATION.



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SHEET TITLE

PROJECT NO: WTX07J

DATE: 05.31.24

REVISION DATES:

MECHANICAL ROOF PLAN

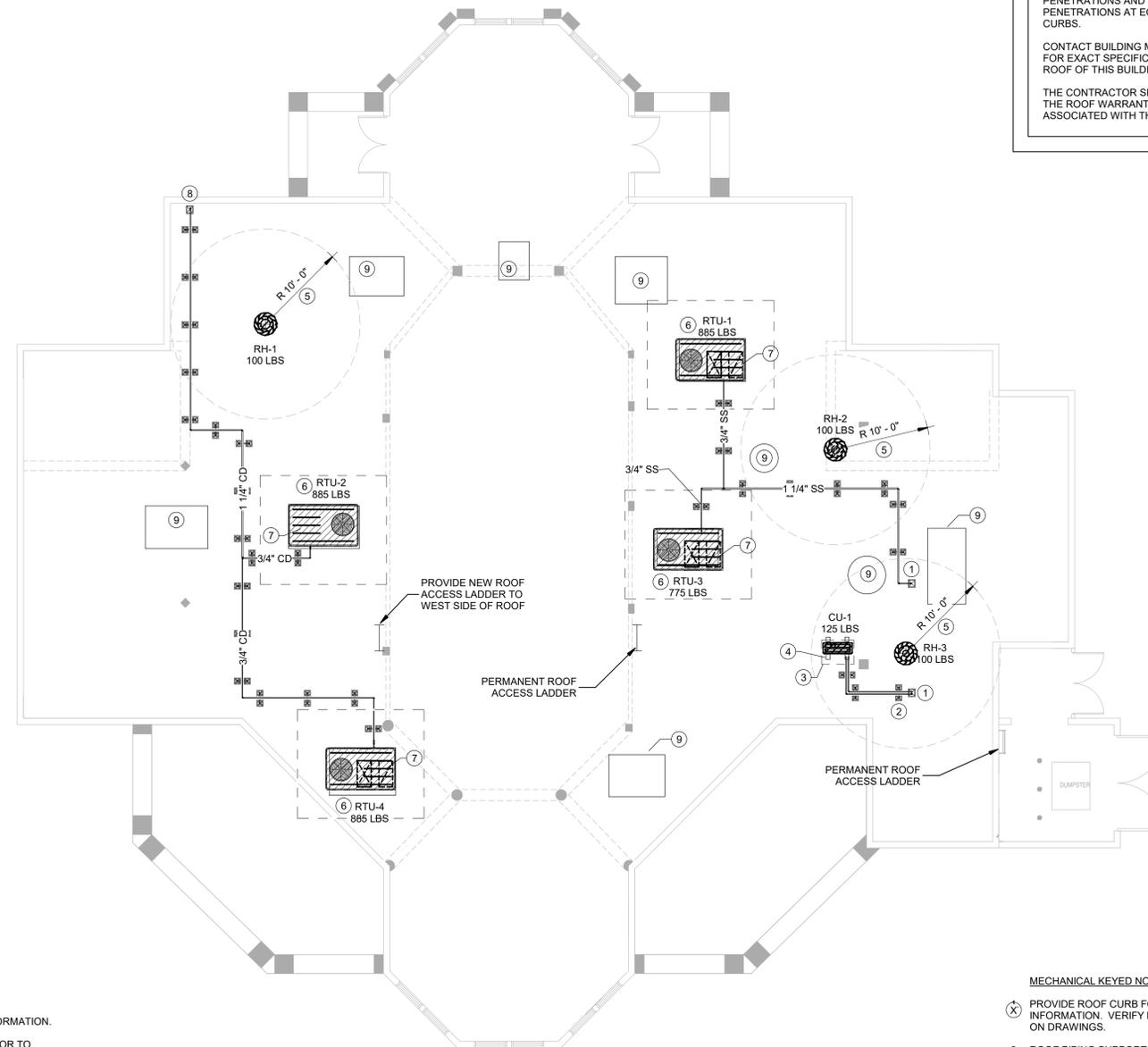
SHEET NUMBER

M2.2

IF THE EXISTING ROOF SYSTEM INSTALLED IN THIS BUILDING HAS A WARRANTY, THEN THE CONTRACTOR SHALL COMPLY WITH ALL WARRANTY GUIDELINES WHILE RELOCATING / REMOVING VTR'S AND / OR EQUIPMENT ON THE ROOF. THIS INCLUDES THE INSTALLATION OF ROOF PENETRATIONS AND PIPE SUPPORTS AS WELL AS PATCHING OLD ROOF PENETRATIONS AT EQUIPMENT, REFRIGERANT, AND/OR ELECTRICAL ROOF CURBS.

CONTACT BUILDING MANAGER FOR ROOF WARRANTY INFORMATION AND FOR EXACT SPECIFICATIONS FOR ANY WORK TO BE PERFORMED ON THE ROOF OF THIS BUILDING.

THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY TO ENSURE THAT THE ROOF WARRANTY IS NOT VOIDED DUE TO CONSTRUCTION ASSOCIATED WITH THIS PROJECT.



GENERAL NOTES:

- REFER TO MECHANICAL SCHEDULES AND DETAIL DRAWINGS FOR ADDITIONAL INFORMATION.
- COORDINATE ALL MECHANICAL WORK COMPLETELY WITH ALL OTHER TRADES, PRIOR TO PURCHASING, MANUFACTURING, AND INSTALLING DUCTWORK, PIPING, EQUIPMENT, ETC. THESE DRAWINGS ARE SCHEMATIC IN NATURE, PROVIDE ADDITIONAL DUCTWORK, PIPING, OFFSETS, AND FITTINGS AS REQUIRED.
- MAINTAIN CODE REQUIRED AND MANUFACTURER'S RECOMMENDED CLEARANCES FOR ALL EXISTING AND NEW EQUIPMENT.
- CONTRACTOR SHALL VERIFY THAT EQUIPMENT PURCHASED WILL FIT IN THE SPACE INCLUDING ANY CLEARANCES REQUIRED FOR MAINTENANCE, ACCESS OR OPERATION. REFER TO MANUFACTURER'S INSTALLATION MANUALS FOR ADDITIONAL INFORMATION.
- DURING CONSTRUCTION, SEAL ALL OPEN DUCTS WITH PLASTIC TO PREVENT DUST/DIRT. CLEAN ALL INTERIOR DUCT SURFACES PRIOR TO DUCT INSTALLATION. ALL VAV TERMINAL UNIT FILTERS SHALL BE MAINTAINED DURING CONSTRUCTION AND REPLACED AT THE END OF CONSTRUCTION. PROVIDE CONSTRUCTION FILTERS OVER AIR HANDLING UNIT INTAKES AND MAINTAIN FILTER MEDIA DURING CONSTRUCTION. REPLACE ALL FILTERS AT THE END OF CONSTRUCTION. ALL RETURN AIR INTAKES TO MECHANICAL ROOM SHALL BE COVERED WITH FILTER MEDIA DURING CONSTRUCTION. REMOVE UPON COMPLETION.
- ALL NEW EQUIPMENT ON ROOF, PRIOR TO EQUIPMENT INSTALLATION FINAL LOCATION SHALL BE APPROVED BY OWNER OR PROJECT MECHANICAL ENGINEER.
- MINIMUM CLEAR DISTANCE BETWEEN ALL FRESH AIR OPENINGS AND PLUMBING VENT STACKS OR EXHAUST FANS SHALL BE 10'-0". COORDINATE WITH PLUMBING CONTRACTOR.
- EQUIPMENT SHALL BE LABELED WITH ITS APPROPRIATE TAG. REFER TO MECHANICAL COVER SHEET FOR ADDITIONAL INFORMATION. ALL EQUIPMENT TO BE A MINIMUM OF 10'-0" FROM ROOF EDGE UNLESS PARAPET IS GREATER THAN 42".

1 MECHANICAL ROOF

1/8" = 1'-0"

MECHANICAL KEYED NOTES:

- PROVIDE ROOF CURB FOR PIPE PENETRATION. REFER TO DETAILS FOR ADDITIONAL INFORMATION. VERIFY EXACT SIZE REQUIRED FOR ALL PIPING AND INSULATION AS SHOWN ON DRAWINGS.
- ROOF PIPING SUPPORT, SPACED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- OPERATING CLEARANCES SHOWN DASHED FOR COORDINATION. CONTRACTOR SHALL MAINTAIN ALL REQUIRED CLEARANCES, REFER TO MANUFACTURER FOR EXACT CLEARANCE REQUIREMENTS.
- EQUIPMENT SUPPORTS RE: DETAIL FOR ADDITIONAL INFORMATION.
- MAINTAIN 10'-0"(MIN) TO OUTSIDE AIR INTAKES.
- PROVIDE ADAPTER CURB AS REQUIRED TO UTILIZE EXISTING ROOFTOP UNIT LOCATION FOR NEW RTU. FIELD VERIFY EXISTING CONDITIONS AND PHYSICAL DIMENSIONS PRIOR TO SUBMITTING BID.
- DUCT MOUNTED SMOKE DETECTOR.
FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT MOUNTED SMOKE DETECTORS AND AIR SAMPLING TUBES AS REQUIRED PER CODE. DUCT DETECTORS AND SAMPLING TUBES INSTALLED BY MECHANICAL CONTRACTOR.
- 1-1/2" CONDENSATE PIPING DOWN TO MOP SINK. SLOPE DOWN AT 1/8" PER FT. (MIN) TOWARDS INDIRECT WASTE RECEPTOR.
- CONTRACTOR SHALL VERIFY EXISTING MECHANICAL EQUIPMENT ROOF CURBS HAVE BEEN PROPERLY INSULATED AND SEALED.

SCHEDULE OF DUCTLESS AIR COOLED DX AIR CONDITIONING UNITS

UNIT DESIGNATION	SERVICE	LOCATION	ROOM DESIGN TEMPERATURE °F D.B.	EVAPORATOR COIL DATA						CONDENSING UNIT DATA						ELECTRICAL DATA						MISCELLANEOUS				MANUFACTURER /SERIES BASIS FOR DESIGN	REMARKS / NOTES
				AIR VOLUME CFM	MAX. COIL FACE VELOCITY FT. PER MIN.	ENTERING AIR TEMPERATURE °F-D. B. / W.B.	LEAVING AIR TEMPERATURE °F-D. B.	TOTAL SENSIBLE HEAT BTUHR. **	GRAND TOTAL HEAT BTUHR.	AIR VOLUME CFM	EXT. STATIC PRESSURE IN W.G.	MAX. ENTERING AIR TEMPERATURE °F	MIN. ENTERING AIR TEMPERATURE °F	FAN MOTOR H.P.	WEIGHT (LBS)	ELECTRIC HEATER KW	STEPS	INDOOR UNIT VOLT./PH.	MCA/ MOCPS *	OUTDOOR UNIT VOLT./PH.	MCA/ MOCPS *	UNIT TYPE	FILTER TYPE	CONTROL SEQUENCE TYPE	SEER		
(N) FCU-1 (N) ACCU-1	MDF ROOM	LEVEL 1	74	---	500	77/64	56	15,080	20,420	-	-	105	0	-	125	N/A	N/A	FED FROM OUTDOOR	208/1	15/20	ACSS	-	NOTE 1	19	LG MODEL LSN240HLV2 LSU240HLV2	1-4	

* DIVISION 23 CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CIRCUIT BREAKER SIZE WITH DIVISION 28 CONTRACTOR AND SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH SAME.
 ** SCHEDULED SENSIBLE HEAT DOES NOT INCLUDE MOTOR HEAT.
 *** EXTERNAL STATIC PRESSURE INCLUDES FILTER RESISTANCE.

NOTES:

- FACTORY FURNISHED WIRED PROGRAMMABLE THERMOSTAT.
- FACTORY FURNISHED DISPOSABLE FILTER.
- REFRIGERANT PIPING SHALL BE SIZED AND PIPED AS PER UNIT MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE UNIT WITH HAIL GUARDS.
- PROVIDE EXTERNAL CONDENSATE PUMP EQUAL TO LITTLE GIANT MODEL VCC-20ULS. 120 VOLT 1 PH MODEL.
- 14 SEER MINIMUM EFFICIENCY.

DX PACKAGED ROOF MOUNTED AIR CONDITIONING UNITS

Mark	Service	Location	Room Design Temp °F (DB/WB)		Evaporator Fan				Evaporator Coil Data				Gas Heating Data				Condensing Unit Data				Electrical Data			Misc.				Manufacturer / Model	Noted				
					Total Air Volume (CFM)	Design Outside Air Volume (CFM)	Fan Type	Ext. Static Pressure (in. W.G.) **	Motor HP	EDB	EWB	LAT (° DB)	LAT (° WB)	TSC (MBH)	GTC (MBH)	EDB (°F, DB)	Minimum LAT (°F, DB)	Min Output MBH	Actual Input / Output MBH	Stages	Max Entering Air Temp. °F	Min Entering Air Temp. °F	Fan Qty.	Comp. Qty. / Type	Voltage / Phase	MCA*	MOCPS*			Unit Type	Minimum Efficiency (S)EER/IEER	Weight (LBS)	Refrigerant
RTU-1	Break	Roof	75.0	62.5	1750	270	Centrif.	1.0	1	78.5	64.3	55	54	44.5	54.0	63.1	85	45.0	60 / 49.2	1	105	45	1	1 / Scroll	208/3	28.2	40	Packaged DX CAV Rooftop Unit	14	825	R-410a	Trane Model YHC060E	1, 2, 3, 4
RTU-2	See Plans	Roof	75.0	62.5	1750	270	Centrif.	1.0	1	78.5	64.3	55	54	44.5	54.0	63.1	85	45.0	60 / 49.2	1	105	45	1	1 / Scroll	208/3	28.2	40	Packaged DX CAV Rooftop Unit	14	825	R-410a	Trane Model YHC060E	1, 2, 3, 4
RTU-3	See Plans	Roof	75.0	62.5	1605	150	Centrif.	1.0	1	77.1	63.6	55	54	38.4	45.7	65.8	85	35.0	60 / 49.2	1	105	45	1	1 / Scroll	208/3	25.4	35	Packaged DX CAV Rooftop Unit	14	775	R-410a	Trane Model YHC048E	1, 3, 4
RTU-4	See Plans	Roof	75.0	62.5	2000	185	Centrif.	1.0	1	77.1	63.6	55	54	47.8	56.8	65.8	85	45.0	60 / 49.2	1	105	45	1	1 / Scroll	208/3	28.2	40	Packaged DX CAV Rooftop Unit	14	825	R-410a	Trane Model YHC060E	1, 2, 3, 4

**EXTERNAL STATIC PRESSURE DOES NOT INCLUDE ALLOWANCE FOR INTERNAL LOSSES DUE TO SOILED FILTERS.

NOTES

- PROVIDE RTU WITH 14" HIGH INSULATED ROOF CURB, SINGLE POINT ELECTRICAL POWER WITH UNIT MOUNTED DISCONNECT SWITCH AND NON-POWERED RECEPTACLE, HAIL GUARDS, AND HINGED ACCESS PANELS.
- PROVIDE RTU WITH 100% ECONOMIZER WITH POWERED EXHAUST AND COMPARATIVE ENTHALPY CONTROLS.
- RTU SHALL HAVE 3/4" FIBER FREE INSULATION
- EACH RTU SHALL BE PROVIDED WITH A FLOAT SWITCH IN THE MAIN DRAIN PAN OF THE UNIT. THE FLOAT SWITCH SHALL DE-ENERGIZE THE UNIT WHEN A RISE IN WATER LEVEL IN THE DRAIN PAN OCCURS. THE FLOAT SWITCH DEPTH SHALL BE SET TO PREVENT OVERFLOW OF THE MAIN CONDENSATE DRAIN PAN.

OUTSIDE AIR CALCULATION

Room	Rp	Pz	Ra	Az	Vbz	Voz
Waiting Room	-	49	0.06	900	299.0	299.0
Storage	-	-	0.06	50	3.0	3.0
Conference	5	-	0.06	0.0	0.0	0.0
Offices	5	11	0.06	753	100.2	100.2
Break Room	5	8	0.06	330	59.8	59.8
Janitor's	-	-	-	-	-	-
Restrooms	-	-	-	-	-	-
Exam Rm (11)	5	22	0.06	1100	176.0	176.0
WorkRM / Lab	10	2	0.18	275	69.5	69.5
Corridors (4)	5	8	0.06	1676	140.56	140.6
Med Supply	-	-	0.06	110	6.6	6.6
					854.6	

875 CFM IS PROVIDED VIA RTU-1, 2, 3, 4

RELIEF AIR / INTAKE HOOD SCHEDULE

MARK	SERVICE	LOCATION	TOTAL CFM	TOTAL S.P. (IN W.G.)	TOTAL THROAT AREA (S.F.)	MANUFACTURER AND MODEL NUMBER	WEIGHT (LBS)
RH-1	EXHAUST AIR	ROOF	400	0.08	---	GREENHECK MODEL GRSR-12	30
RH-2	EXHAUST AIR	ROOF	350	0.08	---	GREENHECK MODEL GRSR-10	30
RH-3	EXHAUST AIR	ROOF	200	0.08	---	GREENHECK MODEL GRSR-8	30

NOTES:

- ALL HOODS SHALL BE PROVIDED WITH FACTORY FABRICATED 12" ROOF CURB AND ALUMINUM BIRDSCREEN IN LOUVER PERIMETER.
- WHERE SPECIFICATIONS ARE MET, THE ALTERNATE MANUFACTURERS FOR GRAVITY AIR HOODS ARE COOK & ACME.

DIFFUSER SIZING SCHEDULE / LEGEND

DIFFUSER DESIGNATION	DESCRIPTION	NECK SIZE (INCHES) CFM RANGE					
		6"□	8"□	10"□	12"□	14"□	16"□
(A)	CEILING LOUVERED FACE SUPPLY AIR DEVICE: TITUS MODEL OMNI (OR EQUAL BY LISTED MANUFACTURER). 24"x24" FACE AREA. AIR PATTERN SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED ON DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE & CONSTRUCTION DETAILS. FLEX SUPPLYING DIFFUSER TO BE SAME AS NECK SIZE.	0-75	80-230	235-345	350-500	505-750	(15"□) 755-850
(B)	CEILING PERFORATED FACE RETURN/EXHAUST AIR DEVICE: TITUS MODEL PAR (OR EQUAL BY LISTED MANUFACTURER). 24"x24" FACE AREA, UTILIZE 22"x22" NECK FOR OPEN RETURN AIR PLENUM. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE & CONSTRUCTION DETAILS. NECK SIZE TO BE SAME AS FLEX SERVING GRILLE. REFER TO PLANS FOR FLEX/NECK SIZES.	0-75	80-230	235-350	355-500	480-700	(22"x22") 705-1,500
(C)	TRANSFER AIR DOOR GRILLE: TITUS MODEL CT-700L (OR EQUAL BY LISTED MANUFACTURER). ALUMINUM CONSTRUCTION, SIGHT-PROOF V-BLADES, BLADES PARALLEL TO THE LONG DIMENSION. PROVIDE WITH OPTIONAL AUXILIARY FRAME. SHALL BE 20"x20" UNLESS OTHERWISE NOTED.	○	○	○	○	○	○

NOTES:

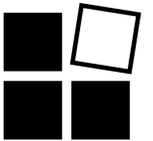
- REFER TO MECHANICAL FLOOR PLANS FOR SIZES AND AIR QUANTITY.
- AIR DEVICES SHALL BE 4-WAY THROW UNLESS NOTED OTHERWISE. FOR 3-WAY, 2-WAY AND 1-WAY THROW PROVIDE OPTIONAL BLOW CLIPS.
- PROVIDE AIR DEVICES WITH FRAMES COMPATIBLE WITH CEILING TYPES. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND CONSTRUCTION DETAILS FOR PROPER CEILING MOUNTING.
- PROVIDE SUBMITTALS ON ALL AIR DISTRIBUTION DEVICES TO BE FURNISHED.
- ALL DUCT RUN-OUTS SHALL BE EQUAL TO AIR DEVICE NECK SIZE (PER THIS SCHEDULE) UNLESS OTHERWISE NOTED.
- IF IT MEETS THE ABOVE LISTED PERFORMANCE AND SPECIFICATIONS, ACCEPTABLE ALTERNATE MANUFACTURERS ARE: PRICE, METAL-AIRE.

FAN SCHEDULE

UNIT DESIGNATION	EF-1,2,3,4,5,6	EF-7	EF-8
SERVICE	SEE PLANS	SEE PLANS	SEE PLANS
LOCATION	CEILING	SEE PLANS	SEE PLANS
FAN TYPE	CEILING CENTRIFUGAL	INLINE-CENTRIFUGAL	CEILING CENTRIFUGAL
DRIVE TYPE	DIRECT	DIRECT	DIRECT
AIR VOLUME CFM	100	350	350
EXT. STATIC PRESSURE- IN. W. G.	0.375	0.40	0.25
FAN R.P.M.	-	-	-
MOTOR HP	80W	1/10	1/10
BRAKE HP	---	---	---
ELECTRICAL	VOLTS	120	120
	PHASE	1	1
	HZ	60	60
	FLA	-	-
MANUFACTURER BASIS FOR DESIGN	GREENHECK MODEL SP-B110	GREENHECK MODEL SQ-85-VG	GREENHECK MODEL SP-A410
NOTES	1, 2	2, 3	1, 2

NOTES:

- PROVIDE FAN DELUXE ALUMINUM GRILLE, FLEXIBLE DISCHARGE CONNECTION, INTEGRAL BACKDRAFT DAMPER, FAN-SPEED CONTROLLER (MOUNT ABOVE CEILING FOR BALANCING), AND INTERNAL THERMAL OVERLOAD PROTECTION.
- WHERE SPECIFICATION AND PERFORMANCE ARE MET, ALTERNATIVE MANUFACTURERS (BY SUBMITTAL ONLY) ARE: ACME, COOK.
- PROVIDE EXHAUST FAN WITH SPRING VIBRATION ISOLATOR KIT, FLEXIBLE DISCHARGE CONNECTION, INTEGRAL BACKDRAFT DAMPER, FAN-SPEED CONTROLLER (MOUNT ABOVE CEILING FOR BALANCING), AND INTERNAL THERMAL OVERLOAD PROTECTION.



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SEALS



05/31/2024



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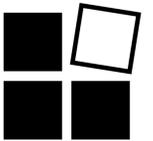
SHEET TITLE

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MECHANICAL SCHEDULES

SHEET NUMBER

M3.1



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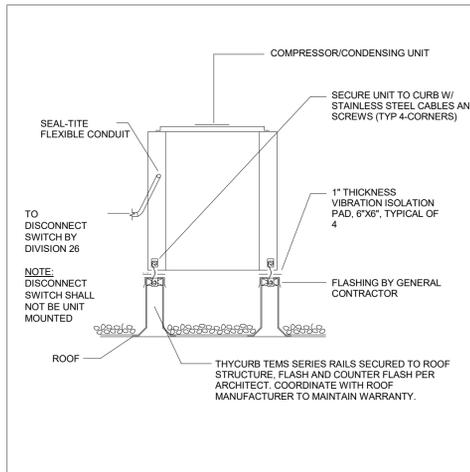
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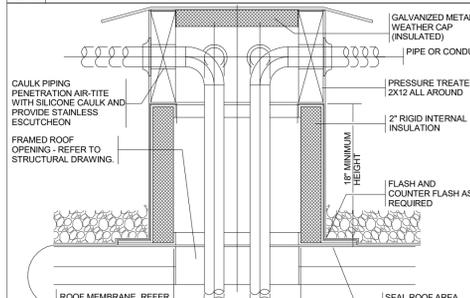
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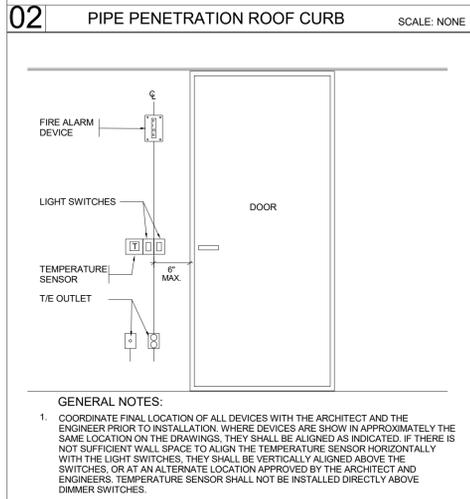
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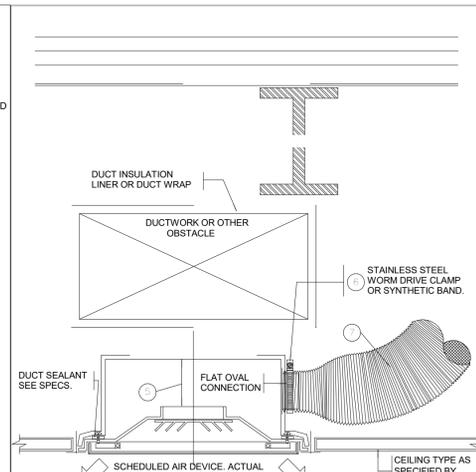
01 FAN COIL (DX) INSTALLATION DETAIL SCALE: NONE



02 PIPE PENETRATION ROOF CURB SCALE: NONE

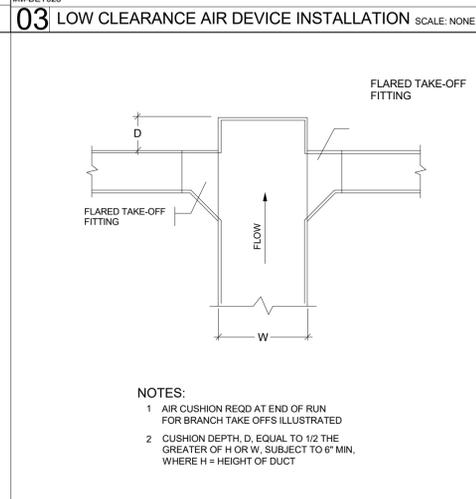


07 DEVICE COORDINATION DETAIL SCALE: NONE

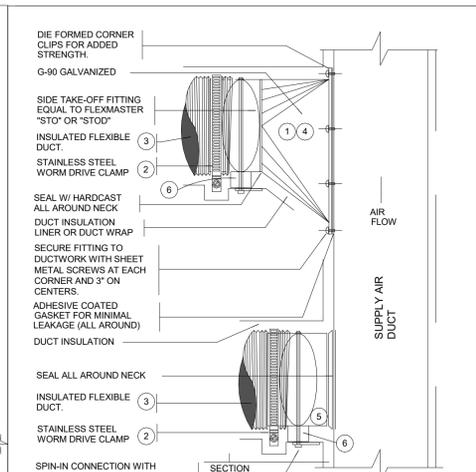


03 LOW CLEARANCE AIR DEVICE INSTALLATION SCALE: NONE

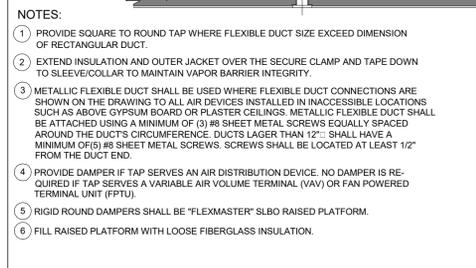
ROUND FLEXIBLE DUCT SIZE (IN.)	FLAT OVAL REQUIRED SIZE (IN.)
6"	4"x7"
8"	4"x10", 6"x6"
10"	6"x12", 8"x11"
12"	8"x15", 8"x14", 10"x13"
14"	8"x17", 10"x16", 12"x16"



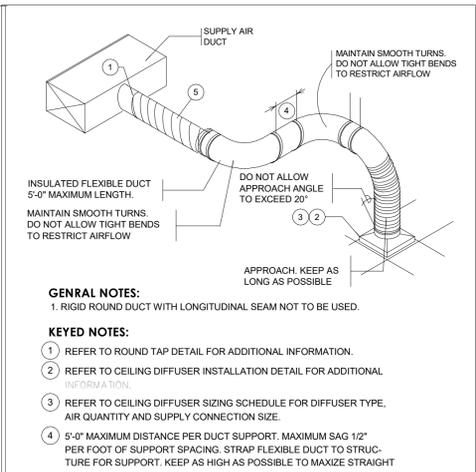
08 DUCTWORK TEE DETAIL SCALE: NONE



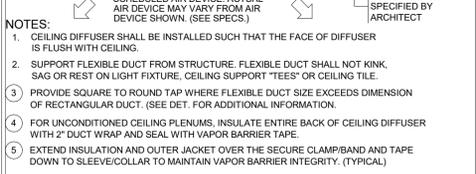
04 ROUND TAP DETAIL SCALE: NONE



09 DRAW THRU UNIT DRAIN DETAIL SCALE: NONE



05 FLEXIBLE DUCT APPROACH TO DIFFUSER SCALE: NONE



06 CEILING DIFFUSER INSTALLATION DETAIL SCALE: NONE



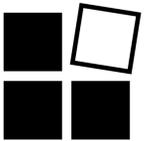
10 ROOFTOP UNIT CURB SCALE: NONE



11 PIPE SUPPORT DETAIL SCALE: NONE

GENERAL NOTE:
REFRIGERANT PIPING WITH ALUMINUM JACKETING WHEN EXPOSED TO OUTDOOR CONDITIONS.

MINIMUM PIPE SUPPORT SPACING		
TYPE	PIPE SIZE	MAXIMUM HORIZONTAL SPACING
PVC	ALL	48"
COPPER	< 1-1/4"	72"
COPPER	> 1-1/2"	10'-0"
STEEL	ALL	10'-0"



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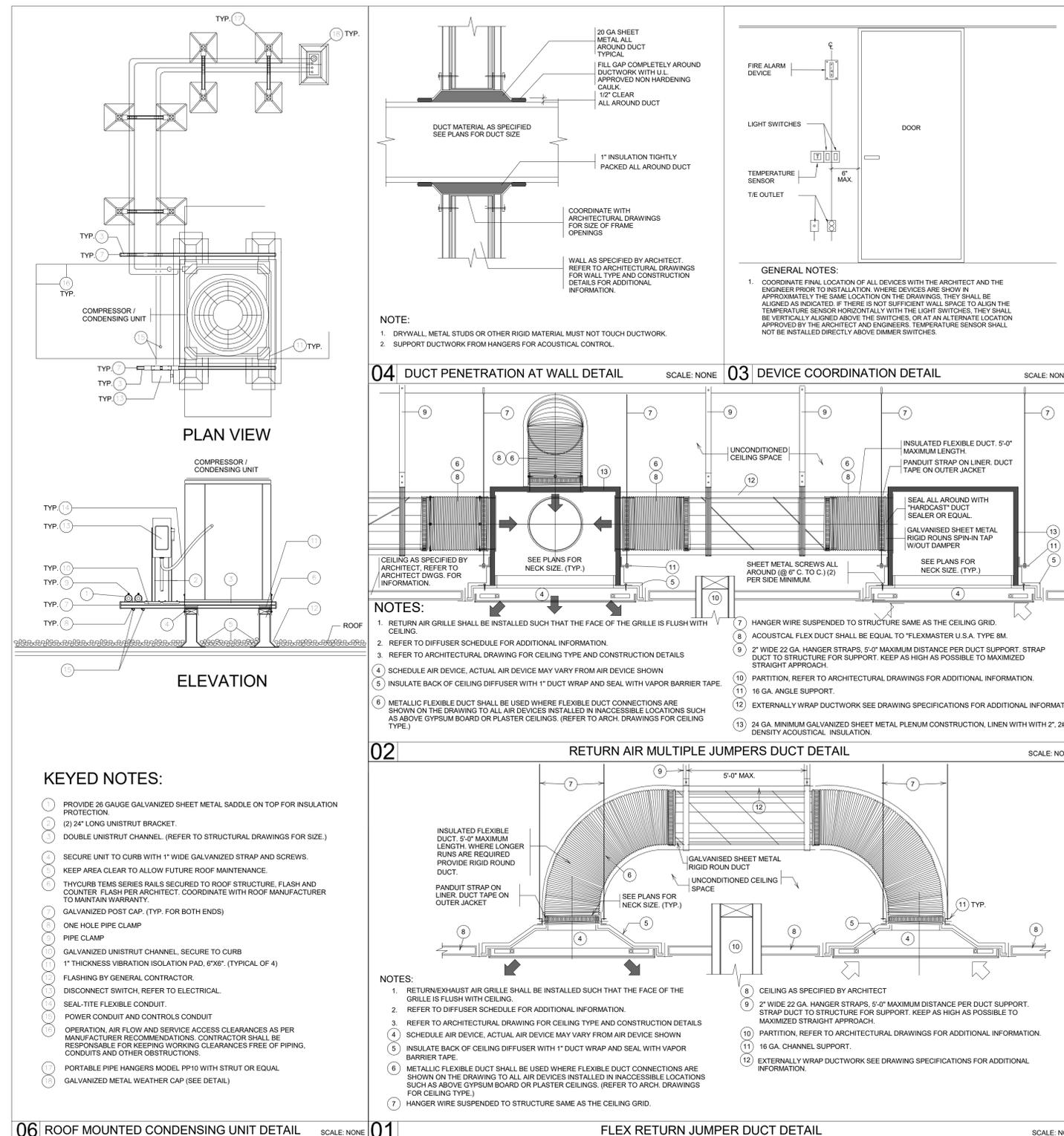
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M4.2



LEGEND OF ELECTRICAL SYMBOLS	
SYMBOL	DESCRIPTION
	CONDUIT RUN CONCEALED IN WALLS OR ABOVE CEILING. ARROW INDICATES HOMERUN TO PANEL. CONDUIT DESIGNATIONS ARE AS FOLLOWS: LONG HATCH INDICATES NEUTRAL, SHORT HATCH INDICATES PHASE, "DOT" INDICATES INSULATED OR ISOLATED GROUND, AND NO HATCHES INDICATES TWO CONDUCTORS.
	CONDUIT RUN CONCEALED IN FLOOR SLAB, BELOW FLOOR SLAB OR BELOW GRADE. WIRING SAME AS ABOVE.
	SCREENING SHIELD INDICATES FUTURE CONNECTION ON EMERGENCY LIGHTING CIRCUIT.
	EXIT LIGHT. PROVIDE ARROWS AND NUMBER OF FACES AS INDICATED ON DRAWINGS.
	SIMPLEX RECEPTACLE OUTLET; 20 AMP, 125V, 3 WIRE, GROUNDED TYPE.
	DUPLEX RECEPTACLE OUTLET; 20 AMP, 125V, 3 WIRE, GROUNDED TYPE.
	QUADRIPOLE RECEPTACLE OUTLET GANGED WITH A COMMON WALL PLATE; (2)-20 AMP, 125V, 3 WIRE, GROUNDED TYPE.
	DUPLEX RECEPTACLE OUTLET LOCATED ABOVE SPLASH ABOVE COUNTER; 20 AMP, 125V, 3 WIRE GROUNDED TYPE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT HEIGHT.
	DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT INTERRUPTER; 20 AMP, 125V, 3 WIRE GROUNDED TYPE.
	DUPLEX RECEPTACLE OUTLET W/ WEATHERPROOF WHILE IN USE COVER; GROUND FAULT INTERRUPTER; 20 AMP, 125V, 3 WIRE, GROUNDED TYPE.
	SPECIAL RECEPTACLE OUTLET. SEE DRAWINGS FOR NEMA CONFIGURATION AND VOLTAGE.
	FLUSH MOUNTED FIRE RATED POKE THRU DEVICE W/ RECEPTACLE(S) AND/OR DATA AND/OR TELEPHONE. SEE DRAWINGS FOR SPECIFICATIONS.
	FLUSH MOUNTED FIRE RATED POKE THRU DEVICE (S) AND/OR DATA AND/OR TELEPHONE. SEE DRAWINGS FOR SPECIFICATIONS.
	POWER POLE. RE. DRAWINGS FOR MORE INFORMATION.
	TELEPHONE OUTLET.
	CABLE T.V. OUTLET
	COMBINATION TELEPHONE / DATA OUTLET.
	DATA OUTLET
	TELEPHONE TERMINAL BOARD, 4"x8"x3/4" FIRE RATED PLYWOOD
	SINGLE POLE, SINGLE-THROW SWITCH; 20 AMP, 120/277V.
	3-WAY/4-WAY SWITCH; 20 AMP, 120/277V.
	DIMMER SWITCH. SEE DRAWINGS FOR SPECIFICATIONS.
	WALL-CELLING MOUNTED OCCUPANCY SENSOR AS SPECIFIED
	EMERGENCY POWER OFF SWITCH (E.P.O.)
	JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING.
	JUNCTION BOX - WALL MOUNTED
	DISCONNECT IN A NEMA 1 ENCLOSURE, UNLESS OTHERWISE SPECIFIED. REFER TO DRAWINGS FOR AMPERAGE, PHASES, AND SIZE. (IF REQUIRED) 30 AMP, 3 POLE, NON-FUSED, 1/0-U.N.
	MOTOR
	MOTOR STARTER / DISCONNECT IN A NEMA 1 ENCLOSURE, UNLESS OTHERWISE SPECIFIED. REFER TO DRAWINGS FOR AMPERAGE, PHASES, AND SIZE. (IF REQUIRED), AND SIZE. 30 AMP, 3 POLE, NON-FUSED, SIZE 1/0-U.N.
	MOTOR STARTER/VPD IN A NEMA 1 ENCLOSURE, UNLESS OTHERWISE SPECIFIED. REFER TO DRAWINGS FOR AMPERAGE, PHASES, AND SIZE. (IF REQUIRED) IN A NEMA 1 ENCLOSURE, UNLESS OTHERWISE SPECIFIED. REFER TO DRAWINGS FOR AMPERAGE AND NUMBER OF POLES.
	PHOTO-ELECTRIC CELL
	TIMECLOCK IN NEMA 1 ENCLOSURE, OTHERWISE SPECIFIED. REFER TO DRAWINGS FOR AMPERAGE AND NUMBER OF POLES.
	CARD READER JUNCTION BOX WITH 3/4" TO ACCESSIBLE CEILING U.N.O.
	GROUND
	GROUND BAR

ELECTRICAL GENERAL NOTES	
GENERAL PROVISIONS	
1.	FURNISH AND INSTALL ALL ITEMS, INCLUDING EVERY ARTICLE, DEVICE, OR ACCESSORY REASONABLY NECESSARY TO FACILITATE EACH SYSTEM'S FUNCTIONING AS LIMITED BY THE DESIGN AND THE EQUIPMENT SPECIFIED. ELEMENTS OF THE WORK SHALL INCLUDE, BUT ARE NOT LIMITED TO, MATERIALS, LABOR, SUPERVISION, SUPPLIES, EQUIPMENT, TRANSPORTATION, HOISTING/RIGGING, STORAGE, UTILITIES, AND ALL REQUIRED PERMITS AND LICENSES.
2.	WORK SHALL COMPLY WITH THE MOST RECENT VERSION OF ALL APPLICABLE LAWS, RULES, REGULATIONS AND ORDINANCES OF ALL FEDERAL, STATE AND LOCAL AUTHORITIES. IN THE EVENT OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE LOCAL ORDINANCES, THE LATTER SHALL RULE. ANY MODIFICATION RESULTING THEREFROM SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR ARCHITECT/ENGINEER. THE CONTRACTOR SHALL REPORT ANY SUCH MODIFICATIONS TO THE ARCHITECT/ENGINEER AND SECURE HIS APPROVAL BEFORE PROCEEDING. SHOULD THE CONTRACTOR BE REQUIRED TO EXCEED THE REQUIREMENTS OF THE CODES, THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE PROVIDED THEY ARE NOT IN CONFLICT WITH THOSE CODES.
3.	DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT NECESSARILY REFLECT ALL WORK REQUIRED TO COMPLETE PROJECT. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT AS REQUIRED TO COMPLETE PROJECT WITHIN DESIGN INTENT AT NO ADDITIONAL COST TO OWNER/TENANT OR TENANT. CONTRACTOR SHALL REQUEST ADDITIONAL INFORMATION IN CASES OF DOUBT.
4.	IN THE EVENT OF A CONFLICT BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE GREATER AMOUNT OF TOTAL COST SHALL BE PRICED. BRING THE CONFLICT TO THE ATTENTION OF THE ENGINEER AND REQUEST DIRECTION.
PRE-CONSTRUCTION	
1.	BEFORE SUBMITTING A BID, CONTRACTOR SHALL VISIT THE SITE AND ASCERTAIN FOR HIMSELF THE CONDITIONS TO BE MET IN INSTALLING THE WORK AND MAKE PROVISIONS FOR THE CONDITIONS IN HIS FINAL PRICE. FAILURE ON THE PART OF THE CONTRACTOR TO COMPLY WITH THIS REQUIREMENT SHALL NOT BE CONSIDERED JUSTIFICATION FOR THE OMISSION OR FAULTY INSTALLATION OF ANY WORK COVERED BY THE CONTRACT DOCUMENTS.
2.	CONSIDERATION SHALL NOT BE GRANTED FOR MISUNDERSTANDING OF THE SCOPE OR AMOUNT OF WORK TO BE PERFORMED BY THE CONTRACTOR OR A PROPOSAL CONVEYS FULL CONTRACTOR AGREEMENT OF THE TERMS AND CONDITIONS SPECIFIED AND/OR INCITED, SCHEDULED, OR IMPLIED ON THE CONTRACT DOCUMENTS AND REQUIRED BY THE NATURE OF THIS WORK.
3.	CONTRACTOR SHALL SECURE ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED FOR HIS WORK, AND SHALL PAY ALL FEES IN CONNECTION WITH SUCH PERMITS AND INSPECTIONS.
DEMOLITION	
1.	ALL EXISTING CONDUIT AND CONDUCTORS SERVING THE AREA UNDER CONTRACT NOT TO BE RE-USED SHALL BE TERMINATED AT LAST PORTION OF CIRCUIT REQUIRING ENERGIZATION BEFORE THE DEMOLITION AREA. IF A CIRCUIT SERVICES ONLY THE DEMOLITION AREA, REMOVE ALL CONDUITS AND CONDUCTORS BACK TO THE PANELBOARD OR BASE BUILDING GRID BOX AND ENERGIZE THE CIRCUIT BREAKER, MAKING IT A SPARE. NOTE "SPARE" OR "GRID-SPARE" ACCORDINGLY ON PANELBOARD DIRECTORY.
2.	REMOVE ALL ABANDONED "LOW VOLTAGE" CABLING INCLUDING FIRE ALARM CABLING, TELEPHONE-DATA CABLING AND SECURITY CABLING. REMOVE ALL EXISTING CONDUIT AND WIRING THAT IS SUPPORTED FROM THE CEILING GRID. REMOVE ALL EXISTING UNUSED ELECTRICAL EQUIPMENT, CONTROLS, LIGHT FIXTURES, ETC.
3.	RELOCATE AND RECONNECT ACTIVE PORTIONS OF THE ELECTRICAL SYSTEM OUTSIDE OF THE SCOPE OF DEMOLITION, AS REQUIRED TO MAINTAIN A COMPLETE AND OPERATING SYSTEM THAT IS FUNCTIONALLY EQUIVALENT TO THE EXISTING SYSTEM.
4.	ELECTRICAL PLANS INDICATE FINAL WIRING DEVICE, DATA/COMMUNICATIONS OUTLET AND SWITCH LOCATIONS. ALL OTHER EXISTING WIRING DEVICES, DATA/COMMUNICATIONS OUTLETS AND SWITCHES SHALL BE REMOVED AND WALLS SHALL BE PATCHED.
5.	ALL EXISTING JUNCTION BOXES, OUTLETS, PULL BOXES, ETC. LOCATED ABOVE NON-ACCESSIBLE CEILINGS SHALL BE REMOVED UNDER THIS TENANT IMPROVEMENT PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR A LOCATION ABOVE AN ACCESSIBLE CEILING, WHERE EXISTING JUNCTION BOXES ARE NOT PRACTICAL TO RE-LOCATE. ELECTRICAL CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER PRIOR TO SUBSTANTIAL START OF CONSTRUCTION.
6.	REMOVE ALL EXISTING UNUSED ELECTRICAL EQUIPMENT, CONTROLS, CONDUIT, HANGERS, WIRING, ETC., FROM ABOVE CEILINGS.
7.	REFER TO ARCHITECTURAL PLANS FOR WALL AND PARTITIONS AND WIRING DEVICES TO BE REMOVED. CONTRACTOR SHALL PROVIDE ELECTRICAL DEMOLITION AS PREVIOUSLY DESCRIBED.
8.	REMOVE ALL EXISTING CONDUIT AND WIRING THAT IS SUPPORTED FROM THE CEILING GRID VIA CADDY CLIPS, ETC. AND REPLACE EXISTING CONDUIT THAT IS TO BE RE-UTILIZED WITH MATCHING CONDUIT AND WIRING PROPERLY SUPPORTED FROM STRUCTURE ABOVE.
9.	RE-SUPPORT AND/RE-ROUTE ANY REMAINING PIPING OR DEVICES THAT WERE SUPPORTED BY DEMOLISHED WALLS.
SUBMITTALS	
1.	ALL EQUIPMENT AND MATERIAL TO BE FURNISHED AND INSTALLED ON THIS PROJECT SHALL BE UL OR ETL LISTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION, AND SUITABLE FOR ITS INTENDED USE ON THIS PROJECT.
2.	MATERIALS AND EQUIPMENT SHALL BE NEW AND IN GOOD CONDITION, THE COMMERCIAL STANDARD ITEMS OF EQUIPMENT AND THE SPECIFIC NAMES INDICATED THEREON. CONTRACTOR SHALL PROVIDE QUANTITY AND PERFORMANCE NECESSARY FOR THE PROPER FUNCTIONING OF THE WORK, MATERIALS AND EQUIPMENT, WHICH ARE FOUND TO HAVE FACTORY DEFECTS SHALL BE REPLACED OR REPAIRED IN A MANNER ACCEPTABLE TO THE OWNER/TENANT AND ENGINEER AT NO ADDITIONAL COST TO THE OWNER/TENANT.
3.	THE CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL NEW EQUIPMENT, CONTROLS, AND FIXTURES TO BE PROVIDED. SUBMIT PDF FORMAT FILE FOR APPROVAL.
4.	THE FOLLOWING SUBMITTAL DATA SHALL BE FURNISHED AND SHALL INCLUDE BUT NOT BE LIMITED TO: A. ALL NEW EQUIPMENT, CONTROLS, SPECIALTY WIRING DEVICES, AND LIGHT FIXTURES B. LIGHTING CONTROL SHOP DRAWINGS - WHERE DIMMING CONTROL PANELS OR LIGHT CONTROLS ARE UTILIZED C. COORDINATION DRAWINGS D. FIRE ALARM MATERIAL AND SHOP DRAWINGS E. FIRE STOP MATERIALS AND INSTALLATION DETAILS
PRE-CONSTRUCTION FUNCTIONAL TEST	
1.	PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL FUNCTIONALLY TEST ALL ELECTRICAL AND FIRE ALARM EQUIPMENT THAT IS EXISTING TO REMAIN OR RELYING ON THIS PROJECT. THE CONTRACTOR SHALL PROVIDE A WRITTEN DESCRIPTION OF ANY AND ALL DEFICIENCIES TO THE OWNER/TENANT. ANY DEFICIENCIES FOUND AFTER THE START OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER/TENANT. THE RESULTS OF THESE TESTS SHALL BE INCLUDED IN THE ELECTRICAL, LIGHT FIXTURES, EXIT SIGNS, OCCUPANCY SENSORS, PANEL BOARDS, TRANSFORMERS, EMERGENCY LIGHTING BATTERY UNITS, AND SWITCHES.
2.	FOR EXISTING LIGHT FIXTURES AND EXIT SIGNS WITH BATTERY PACKS, ELECTRICAL CONTRACTOR SHALL ASSUME NEW BATTERY PACKS WILL BE REQUIRED UNLESS FUNCTIONAL TEST PROVES OTHERWISE.
CONSTRUCTION	
1.	ALL WORK SHALL BE ARRANGED IN A NEAT, WELL ORGANIZED MANNER. ALL SERVICES SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO THE PRIMARY LINES OF THE BUILDING. LOCATE ALL OPERATING AND CONTROL EQUIPMENT PROPERLY TO PROVIDE EASY ACCESS AND ARRANGE INTER WORK WITH ADEQUATE ACCESS FOR OPERATION AND MAINTENANCE, AND FOR PROPER CODE AND MANUFACTURERS CLEARANCES.
2.	THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL COORDINATE THE INSTALLATION OF DUCTWORK, PIPING, CONDUIT, CABLE, ETC., WITH LIGHTING FIXTURES, SPECIAL CEILING CONSTRUCTION, AIR DISTRIBUTION EQUIPMENT, AND THE STRUCTURE. PROVIDE ADDITIONAL RISES AND OFFSETS AS REQUIRED. IF, AFTER INSTALLED, NEW DUCTWORK, PIPING, CONDUIT, CABLE, ETC. IS FOUND TO INTERFERE WITH THE ARCHITECTURE, STRUCTURE OR OTHER TRADE WORK, WHICH IS EITHER EXISTING OR SHOWN ON THE CONTRACT DOCUMENTS, THE DUCTWORK, PIPING, CONDUIT, CABLE, ETC., SHALL BE RELOCATED WITHOUT ADDITIONAL COST TO THE OWNER/TENANT. COORDINATE ALL WORK COMPLETELY WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3.	THE CONTRACTOR SHALL PROTECT THE WORK, EQUIPMENT, AND MATERIALS FROM DAMAGE BY HIS WORK OR HIS PERSONNEL, AND SHALL CORRECT ALL DAMAGE THUS CAUSED WITHOUT ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK DAMAGE TO THE BUILDING OR EQUIPMENT CAUSED BY THE OWNER. PROTECT ALL WORK AGAINST THEFT, INJURY, OR DAMAGE AND CAREFULLY STORE MATERIAL AND EQUIPMENT RECEIVED ON SITE WHICH IS NOT IMMEDIATELY INSTALLED. THE CONTRACTOR SHALL CLOSE OPEN ENDS OF WORK WITH TEMPORARY COVERS OR PLUGS DURING CONSTRUCTION TO PREVENT THE ENTRY OF DUST, DIRT, AND OBSTRUCTING MATERIAL. THE CONTRACTOR SHALL PROTECT ALL EQUIPMENT AND MATERIALS FROM DAMAGE DUE TO WATER, SPRAY-ON FIREPROOFING, CONSTRUCTION DEBRIS, ETC. IN A MANNER ACCEPTABLE TO THE ENGINEER AND/OR OWNER.
4.	AREAS OF THE EXISTING BUILDING WILL BE OCCUPIED DURING CONSTRUCTION OF THIS PROJECT. NOISY, DUSTY, AND/OR OTHER CONSTRUCTION OPERATIONS REQUIRED FOR WORK WHICH DISTURBS OR CAUSE COMPLAINTS BY THE EXISTING BUILDING OCCUPANTS SHALL NOT BE ACCEPTABLE. ALL AFTER-HOUR OR OVERTIME WORK REQUIRED BY THE CONTRACTOR TO AVOID DISRUPTION OF EXISTING OCCUPANTS WILL BE PROVIDED AT NO COST TO THE OWNER/TENANT. THE CONTRACTOR SHALL USE CONSTRUCTION METHODS AND MATERIALS WHICH SHALL NOT ADVERSELY AFFECT THE INDOOR AIR QUALITY OF THE EXISTING OCCUPIED AREAS.
5.	ALL BUILDING SERVICES, UTILITIES, POWER, FIRE PROTECTION, AND DOMESTIC COLD AND HOT WATER MAY NOT BE DISRUPTED FOR ANY REASON WITHOUT PRIOR COORDINATION WITH A REPRESENTATIVE OF BUILDING OPERATIONS.
6.	THIS BUILDING MAY HAVE A STRUCTURAL SYSTEM UTILIZING POST-TENSIONED CABLES. THE CONTRACTOR SHALL DETERMINE THE EXISTING STRUCTURAL SYSTEM PRIOR TO CUTTING, DRILLING, OR CORING. THE CONTRACTOR SHALL SCAN ALL PENETRATIONS PRIOR TO CUTTING THE FLOOR.
7.	PENETRATIONS THROUGH FLOORS OR FIRE-RATED CONSTRUCTION SHALL BE FIRESEALED TO COMPLY WITH ASTM E-814 (UL 1479), AND THE LOCAL AUTHORITY HAVING JURISDICTION.
PROJECT CLOSE-OUT	
THE ELECTRICAL CONTRACTOR SHALL PERFORM THE FOLLOWING TASKS UPON PROJECT COMPLETION. ALL REQUIRED REPORTS AND AS-BUILTS SHALL BE SUBMITTED WITHIN TWO (2) WEEKS OF DATE OF SUBSTANTIAL COMPLETION OR OWNER OCCUPANCY.	
A.	SUBMIT "AS-BUILT" RECORD DRAWINGS INDICATING ACTUAL AS-BUILT CONDITIONS TO THE ARCHITECT/ENGINEER FOR REVIEW. RECORD DRAWINGS SHALL BE STAMPED "AS-BUILT" AND SHALL HAVE THE NAME, ADDRESS, AND TELEPHONE NUMBER OF THE CONTRACTOR. ALL ENGINEERS' SEALS SHALL BE REMOVED FROM THE DRAWINGS. PROVIDE ONE (1) ELECTRICAL CIRCUITRY AND INDICATE ANY DEVIATIONS ON THE "AS BUILT" DRAWINGS. "AS BUILT" DRAWINGS SHALL ACCURATELY INDICATE THE LOCATION OF ALL NEW AND EXISTING JUNCTION BOXES WITH THE RESPECTIVE PANEL AND CIRCUIT NUMBERS.
B.	EXISTING CIRCUITRY SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL FIELD VERIFY EXACT CIRCUITRY AND INDICATE ANY DEVIATIONS ON THE "AS BUILT" DRAWINGS. "AS BUILT" DRAWINGS SHALL ACCURATELY INDICATE THE LOCATION OF ALL NEW AND EXISTING JUNCTION BOXES WITH THE RESPECTIVE PANEL AND CIRCUIT NUMBERS.
C.	SUBMIT COPY OF OPERATION AND MAINTENANCE MANUALS. THE MANUALS SHALL INCLUDE RATINGS, CAPACITIES, PARTS LISTS, WIRING DIAGRAMS, SERVICE/MAINTENANCE RECOMMENDATIONS, AND WARRANTIES.
D.	SUBMIT WRITTEN RESPONSE TO ALL FIELD REPORTS INDICATING CORRECTIVE ACTIONS TAKEN AND DATE CORRECTIVE ACTION WAS TAKEN TO THE ARCHITECT/ENGINEER FOR REVIEW.
WARRANTY	
1.	THE WARRANTY PERIOD SHALL BE NO LESS THAN ONE (1) FULL YEAR, UNLESS SPECIFIED OTHERWISE AND SHALL INCLUDE AT LEAST ONE (1) FULL HEATING SEASON AND ONE (1) FULL COOLING SEASON. DURING THE WARRANTY PERIOD THE CONTRACTOR SHALL GUARANTEE THE FOLLOWING IN A FORM SATISFACTORY TO THE OWNER/TENANT: A. ALL WORK INSTALLED SHALL BE FREE FROM ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS. B. ALL APPARATUS WILL DEVELOP CAPACITIES AND PERFORMANCE CHARACTERISTICS SPECIFIED. C. THE SYSTEMS SHALL OPERATE WITHOUT MALFUNCTION.
2.	THE START OF THE CONTRACTOR'S WARRANTY PERIOD SHALL COMMENCE ON THE DATE OF "SUBSTANTIAL COMPLETION" AS AGREED TO BY THE OWNER/TENANT.

ELECTRICAL SPECIFICATIONS	
CONDUIT	
1.	ALL CONDUITS SHALL BE CONCEALED IN PIPE CHASES, WALLS, FURRED SPACED, OR ABOVE THE CEILING OF THE BUILDING UNLESS OTHERWISE INDICATED. CONDUIT SHALL NOT BE EMBEDDED IN ANY STRUCTURAL SLAB OR STRUCTURAL MEMBER UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
2.	CONDUIT MAY BE RUN EXPOSED IN MECHANICAL ROOMS, DUCT AND PIPING CHASES, BUT ONLY WHERE NECESSARY.
3.	ALL CONDUITS THROUGHOUT THE BUILDING SHALL BE SUPPORTED AT MINIMUM 10 FEET ON CENTERS HORIZONTALLY AND SUPPORTED 6 FEET ON CENTERS VERTICALLY. SUPPORT CONDUIT WITHIN 3" OF ALL CONNECTIONS TO BOXES.
4.	CONDUIT SHALL NOT BE SUPPORTED FROM DUCTWORK, PIPING, OR EQUIPMENT.
5.	THE LOAD AND SPACING ON EACH HANGER AND/OR INSERT SHALL NOT EXCEED THE SAFE ALLOWABLE LOAD FOR ANY COMPONENT OF THE SUPPORT SYSTEM, INCLUDING THE CONCRETE WHICH HOLDS THE INSERTS. CONFIRM WITH STRUCTURAL ENGINEER WHERE REQUIRED.
6.	ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN CONDUIT, OR SURFACE METAL RACEWAYS. IN ADDITION, EMT CONDUIT OR SURFACE METAL RACEWAYS SHALL BE INSTALLED FOR THE VOICEDATA SYSTEM, AND FOR OTHER SYSTEMS AS INDICATED ON THE DRAWINGS.
7.	EMT CONDUIT SHALL BE JOINED WITH THREADED COUPLINGS AND SHALL BE SECURED IN CABINETS, OUTLETS, ETC., WITH DOUBLE LOCK NUTS AND SHALL BE PROVIDED WITH INSULATED THROAT BUSHINGS AS MANUFACTURED BY STEEL CITY OR EQUAL. COUPLINGS, ETC., SHALL BE THREADED.
8.	RIGID STEEL CONDUIT SHALL BE HOT-DIPPED GALVANIZED INSIDE AND OUT. FULL LENGTHS OF PIPE SHALL HAVE GALVANIZED OR ZINC-COATED THREADS ON BOTH ENDS.
9.	EMT SHALL BE USED INDOORS WHERE CONCEALED OR EXPOSED ABOVE GRADE.
10.	EMT SHALL BE JOINED WITH STEEL SET SCREW TYPE COUPLINGS AND CONDUITS SHALL BE SECURED WITH STEEL SET SCREW TYPE CONNECTORS AT PANELS, JUNCTION BOXES, OUTLETS, ETC. DIE-CAST TYPE CONNECTORS ARE NOT ACCEPTABLE.
FLEXIBLE METAL CONDUIT	
1.	FLEXIBLE METAL CONDUIT SHALL BE HOT-DIPPED GALVANIZED STEEL STRIP, SPIRAL WOUND AND INTERLOCKED, AND SHALL BE PROVIDED WITH INSULATED ANTI-SHORT BUSHINGS AT ALL TERMINATIONS.
2.	FLEXIBLE METAL CONDUIT SHALL BE SECURED WITH GALVANIZED OR SHERADIZED CONNECTORS SUITABLE FOR CONNECTION TO THE ASSOCIATED BOXES AND CONDUITS. DIE CAST CONNECTORS ARE NOT ACCEPTABLE.
3.	FLEXIBLE METAL CONDUIT SHALL BE USED INDOORS AT ANY HEIGHT, IN LENGTHS NOT TO EXCEED 48 INCHES TO EXTEND CONDUIT CONNECTIONS TO MOTORS, TRANSFORMERS, BUSWAY SWITCHES, AIR DISTRIBUTION TERMINAL UNITS, LIGHTING FIXTURES NOT CONNECTED BY RIGID CONDUIT, CONTROL EQUIPMENT AND DEVICES, PERMANENTLY CONNECTED EQUIPMENT OR APPLIANCES, OR FOR EQUIPMENT AND DEVICES REQUIRING ADJUSTMENT AND MAINTENANCE. FLEXIBLE METAL CONDUIT SHALL NOT BE USED FOR CONNECTIONS IN CONNECTED MACHINE ROOMS. LIQUID-TIGHT FLEXIBLE CONDUIT SHALL BE USED ABOVE AND BELOW CEILING AREAS.
4.	FLEXIBLE METAL CONDUIT (MINIMUM 3/8" DIAMETER) MAY BE USED FOR FIXTURE TAILS, FOR CONNECTION OF INDIVIDUAL LIGHTING FIXTURES TO THEIR ASSOCIATED LIGHTING SYSTEM JUNCTION BOXES LENGTHS NOT TO EXCEED 6 FEET, AND PROVIDED THE CIRCUIT CONDUCTORS CONTAINED THEREIN ARE PROTECTED EQUIVALENT TO THE EXISTING SYSTEM.
5.	A "GREEN" INSULATED COPPER GROUNDING CONDUCTOR SHALL BE INSTALLED WITH THE CIRCUIT CONDUCTORS AND SIZED IN ACCORDANCE WITH TABLE 250-122 OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
TYPE "MC" METAL CLAD CABLE	
WHERE PERMITTED BY THE LOCAL AUTHORITY HAVING JURISDICTION AND APPROVED BY OWNER/CLIENT - TYPE MC CABLE MAY BE UTILIZED INDOORS IN FINISHED AREAS FOR THE CONNECTION OF LIGHT FIXTURES AND WIRING DEVICES PROVIDED THE FOLLOWING CONDITIONS ARE MET:	
FOR CONNECTION TO LIGHT FIXTURES:	
A.	FROM JUNCTION BOX TO FIRST FIXTURE - NOT TO EXCEED 5'-0" HORIZONTALLY FROM JUNCTION BOX TO LIGHT FIXTURE FEED.
B.	FROM LIGHT FIXTURE TO ADJACENT LIGHT FIXTURE - NOT TO EXCEED 12'-0"
FOR INDIVIDUAL CONNECTION TO OUTLETS AND SWITCHES CONCEALED IN WALL AND PARTITIONS:	
A.	THE BRANCH CIRCUIT HOMERUN SERVING RIGID IS INSTALLED IN ACCESSIBLE CEILING SPACE USING METAL CONDUIT.
B.	BRANCH CIRCUIT JUNCTION BOX IS LOCATED IN ACCESSIBLE CEILING SPACE ADJACENT TO THE ASSOCIATED WALLS OR PARTITIONS IN WHICH OUTLETS OR SWITCH LEGS ARE INSTALLED - NOT TO EXCEED 5'-0" HORIZONTALLY FROM THE JUNCTION TO THE ASSOCIATED WALL.
C.	FOR CONNECTION OF MULTIPLE WIRING DEVICES WITHIN THE SAME WALL.
1.	TYPE MC CABLE SHALL NOT BE USED FOR HOMERUN WIRING OR HORIZONTAL BRANCH CIRCUIT RUNS OVER 12'-0". HOMERUNS AND HORIZONTAL RUNS SHALL BE HARD PIPED WITH METAL CONDUIT.
2.	TYPE MC CABLE SHALL BE PROVIDED WITH INSULATED ANTI-SHORT BUSHINGS AT ALL TERMINATIONS.
3.	TYPE MC CABLE CONNECTORS SHALL BE STEEL GALVANIZED OR SHERADIZED, SUITABLE FOR CONNECTION TO ASSOCIATED BOXES. DIE CAST CONNECTORS ARE NOT ACCEPTABLE.
CONDUIT INSTALLATION	
1.	ALL HORIZONTAL RUNS OF BRANCH CIRCUITS ABOVE CEILING LINE SHALL BE EMT CONDUIT. RE: MC CABLE SECTION FOR EXCEPTIONS.
2.	CONDUIT SHALL BE OF AMPLIFIED SIZE TO PERMIT THE EASY INSERTION OR WITHDRAWAL OF CONDUCTORS AND GROUPING OF THE ABOVE LISTED DEVICES AND AS INDICATED ON THE DRAWINGS.
3.	CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE PERCENT FILL REQUIREMENTS OF THE NEC AND AS INDICATED ON THE DRAWINGS.
4.	GROUPING OF "HOME RUNS" IS ACCEPTABLE ONLY WHERE THE NUMBER OF CONDUCTORS INDICATED ON THE DRAWINGS IS MAINTAINED.
5.	NEC DE-RATING FACTORS ARE APPLIED BASED ON FULL RATING OF THE BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICES. FOR 20 AMP CIRCUITS, NOT MORE THAN NINE(9) - #12 THIN OR #10 THIN CURRENT CARRYING (PHASE & NEUTRAL) CONDUCTORS SHALL BE INSTALLED IN EACH RACEWAY.
6.	EMT CONDUIT SHALL NOT BE SMALLER THAN 1/2"
7.	WHERE CONDUIT OPENINGS ARE EXPOSED TO CONSTRUCTION DEBRIS, CONDUIT SHALL BE CAPPED OR PROTECTED WITH STANDARD ACCESSORIES AS SOON AS INSTALLATION IS COMPLETE.
8.	METAL CONDUIT FOR SIGNAL, COMMUNICATION, AND TEMPERATURE CONTROL SYSTEMS SHALL BE PROVIDED WITH PULL BOXES OF APPROVED SIZES AT INTERVALS NOT EXCEEDING 100 FEET IN LENGTH OR AFTER THREE (3) 90° BENDS. JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE PERCENT FILL REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND AS INDICATED ON THE DRAWINGS.
9.	ALL EMT CONDUIT SYSTEM SHALL HAVE A 1/8" BRAIDED POLYPROPYLENE ROPE OR #14 GALVANIZED STEEL PULL WIRE INSTALLED. AT LEAST 12" OF PROPERLY SECURED ROPE OR WIRE SHALL BE FOLDED BACK INTO EACH END OF THE AMPLY CONDUITS.
10.	CONDUIT SYSTEMS SHALL BE PROPERLY SUPPORTED PER RESPECTIVE NEC REQUIREMENTS.
11.	ALL HOMERUNS SHALL BE INSTALLED IN EMT CONDUIT. TYPE MC CABLE IS NOT ACCEPTABLE.
12.	EMERGENCY SYSTEM CIRCUITS SUCH AS LIGHTING INVERTER OR GENERATOR SHALL NOT SHARE RACEWAYS WITH NORMAL SIGNALS CIRCUITS PER NEC 700.
OUTLET BOXES	
1.	IN STANDARD PARTITIONS, WHERE 1-1/4" CONDUITS ARE EMPLOYED, 4-11/16" SQUARE BY 2-1/8" DEEP BOXES WITH 1-GANG OR 2-GANG PLASTER COVERS SHALL BE USED UNLESS NOTED OTHERWISE.
2.	OUTLET BOXES SHALL BE SECURELY ATTACHED TO THE PARTITION STUDS, WITH AT LEAST ONE (1) PARTITION STUD SEPARATING THE OUTLET BOXES. IT IS NOT ACCEPTABLE TO SECURE OUTLET BOXES ONLY TO DRYWALL PARTITION.
3.	PROVIDE EXTRA DUTY COVERS FOR ALL 15 AND 20 AMP, 125 AND 250 VOLT RECEPTACLES IN ALL WET LOCATIONS PER NEC 408.9(B)(1).
4.	WHERE OCCUPANCY SENSORS/LIGHT SWITCHES ARE INSTALLED AT END OF DOOR SWING, GENERAL CONTRACTOR TO INSTALL STUD AT 42" FROM HINGE WALL. INSTALL SWITCHES ON EITHER SIDE OF STUD.
5.	WHERE MULTI-GANG BACK BOXES ARE REQUIRED, THE BACK BOX SHALL CONSIST OF A SINGLE UNIT - SINGLE BACK BOX WITH HUDRING OR MASONRY STYLE JUNCTION BOX. GANGABLE STYLE BACK BOXES ARE NOT ACCEPTABLE.
GROUNDING	
1.	THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE (NEC), AS SHOWN AND SPECIFIED, AND RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PRODUCTS SERVE THE INTENDED FUNCTIONS.
2.	ALL POWER CONDUITS SHALL HAVE AN EQUIPMENT GROUND. USE OF CONDUIT FOR GROUND PATH IS NOT ACCEPTABLE.
WIRING DEVICES	
1.	PROVIDE BUILDING STANDARD WIRING DEVICES. WHERE A BUILDING STANDARD IS NOT ESTABLISHED, ELECTRICAL RECEPTACLES SHALL BE LEVITON 20 VOLT, 20 AMP, #16-20 GA WIRE, DECORATOR STYLE, BACKBOX COVER WITH MATCHING COVER PLATE UNLESS OTHERWISE INDICATED. LIGHTING SWITCHES SHALL BE LEVITON #5621-2W OR #5623-2W WITH MATCHING COVER PLATES. DEVICES SHALL BE WHITE UNLESS OTHERWISE INDICATED. COVER PLATES SHALL BE NYLON UNLESS OTHERWISE NOTED. EQUAL DEVICES BY RUBELL, LEGRAND, OR COOPER ARE ACCEPTABLE.
2.	ALL WIRING DEVICES SHALL BE RATED 20-AMP MINIMUM. EXISTING 15-AMP DEVICES SHALL BE REPLACED WITH 20-AMP WHERE NEW CIRCUITING IS INDICATED/REQUIRED.
3.	ALL NEW AND EXISTING GFI RECEPTACLES INDICATED ON THE PLANS SHALL MEET THE REVISED LATEST UL #943 REQUIREMENTS AND AS-BUILTS SHALL BE SUBMITTED WITHIN TWO (2) WEEKS OF DATE OF SUBSTANTIAL COMPLETION OR OWNER OCCUPANCY.
PANELBOARDS	
1.	CONTRACTOR SHALL PROVIDE ACCURATE TYPE WRITTEN PANEL SCHEDULES. SCHEDULES SHALL INDICATE DEVICES AND/OR EQUIPMENT SERVED, LOCATION AND/OR ROOM NUMBERS FOR NEW AND EXISTING CIRCUITS. PROVIDE NEW SCHEDULES FOR ALL NEW AND EXISTING PANELS.
2.	WHERE PANELBOARDS HAVE MULTIPLE PANEL SECTIONS, A BONDING JUMPER SIZED PER NEC, SHALL BE USED TO BOND EACH PANEL ENCLOSURE. USE OF CONDUIT AS ONLY MEANS FOR CONTINUITY IS UNACCEPTABLE.
3.	ALL CIRCUIT BREAKER NOT UTILIZED SHALL BE TURNED "OFF" AND LABELED "SPARE" ON UPDATED PANEL SCHEDULE.
4.	ELECTRICAL CONTRACTOR SHALL PROVIDE A LETTER TO THE INSPECTOR INDICATING THE PANEL INSTALLATION IS COMPLETED PER NEC 110.14(D) AND ALL BOLTS ARE TORQUED PER MANUFACTURER REQUIREMENTS.

ELECTRICAL SPECIFICATIONS	
CONDUCTORS	
1.	ALL CONDUCTORS FURNISHED AND INSTALLED SHALL COMPLY WITH THE REQUIREMENTS AND LATEST STANDARDS OF THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL ELECTRICAL SAFETY CODE (NESC), STANDARDS OF THE UNDERWRITERS LABORATORIES (UL), NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).
2.	UNLESS OTHERWISE SPECIFIED OR NOTED, ALL CONDUCTORS NO. 10 AND SMALLER SHALL BE SOLID COPPER THIN WITH AN INSULATING OUTER JACKET SUITABLE FOR CONDUCTOR TEMPERATURES OF 90°C, EXCEPT FOR NEC CLASS 1, 2, 3. CONDUCTORS WHICH MAY BE STRANDED IF TERMINATED AS REQUIRED HEREIN.
3.	UNLESS OTHERWISE SPECIFIED OR NOTED, ALL CONDUCTORS NO. 8 AND LARGER SHALL BE THIN-2/THIN 600 BOLT, STRANDED, AND NEITHER PLASTIC INSULATED GROUND AND AN OUTER JACKET (THIN-2/THIN 600 BOLT) SUITABLE FOR CONDUCTOR TEMPERATURES OF 90°C. STRANDED WIRE SHALL BE TERMINATED AS SPECIFIED HEREIN.
4.	NO SPLICES OR TAPS SHALL BE MADE IN ANY CONDUIT EXCEPT IN OUTLET BOXES, JUNCTION BOXES, AND PANELS. ALL WIRING AND EQUIPMENT IN EXPOSED AND ACCESSIBLE LOCATIONS APPROVED FOR THE PURPOSE BY THE LATEST EDITION OF THE NEC.
5.	ALL NO. 10 AWG AND SMALLER SOLID CONDUCTORS SHALL BE SPLICED WITH PRE-INSULATED SPRING CONNECTORS. ALL NO. 10 AWG AND SMALLER STRANDED CONDUCTORS FOR NEC CLASS 1, 2, 3 WIRING SHALL BE TERMINATED WITH AMP PIGGY UL LISTED PREMIUM GRADE INSULATED FORK CONNECTORS, OR APPROVED EQUAL, AND SHALL BE SPLICED IN A JUNCTION BOX WITH AMP "PLASTIC-GRP" UL LISTED STANDARD GRADE INSULATED BUTT SPLICES, OR APPROVED EQUAL.
6.	ALL 120 VOLT, 20 AMP HOME RUNS LONGER THAN 50 FEET AND ALL 277 VOLT, 20 AMP HOME RUNS LONGER THAN 100 FEET SHALL BE #10 MINIMUM.
7.	EMT CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE PERCENT FILL REQUIREMENTS OF THE NEC AND AS INDICATED ON THE DRAWINGS AND SHALL BE OF AMPLIFIED SIZE TO PERMIT THE READY INSERTION AND WITHDRAWAL OF CONDUCTORS WITHOUT ABRASION. GROUPING OF "HOME RUNS" IS ACCEPTABLE ONLY WHERE THE NUMBER OF CONDUCTORS INDICATED ON THE DRAWINGS IS MAINTAINED AND THE PROPER NEC DE-RATING FACTORS ARE APPLIED BASED ON FULL RATING OF THE BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICES. FOR 20 AMP CIRCUITS, NOT MORE THAN NINE(9) - #12 THIN OR #10 THIN CURRENT CARRYING (PHASE & NEUTRAL) CONDUCTORS SHALL BE INSTALLED IN EACH RACEWAY.
8.	THE USE OF "PUSH-IN" STYLE WIRE CONNECTORS (WAGO OR SIMILAR) ARE STRICTLY PROHIBITED FOR TERMINATIONS OF BRANCH CONDUCTORS. CONDUCTORS SHALL BE TWISTED AND TERMINATED WITH APPROVED WIRE NOT CONNECTION. THE USE OF "PUSH-IN" WIRE CONNECTORS ARE ACCEPTABLE ONLY WHEN PROVIDED BY MANUFACTURER AND PRE-TERMINATED WITH A LIGHT FIXTURE.
IDENTIFICATION/LABELING	
1.	EXISTING CIRCUITRY IS SHOWN FOR INFORMATION ONLY. EXISTING CIRCUITRY INFORMATION TAKEN FROM RECONSTRUCTION OF FIELD SURVEY AND PREVIOUS TENANT DRAWINGS. CONTRACTOR SHALL FIELD VERIFY EXACT CIRCUITRY AND INDICATE ANY DEVIATIONS ON THE "AS BUILT" DRAWINGS. "AS BUILT" DRAWINGS SHALL ACCURATELY INDICATE THE LOCATION OF ALL NEW AND EXISTING JUNCTION BOXES WITH THE RESPECTIVE PANEL AND MANUFACTURER AND CIRCUIT NUMBERS.
2.	ALL PANELBOARDS, MOTOR STARTERS, CONTROL PANELS, CONTROL REMOTE STATIONS, DISCONNECT SWITCHES, CIRCUIT BREAKERS OR OTHER EQUIPMENT IN SEPARATE ENCLOSURES SHALL BE EQUIPPED WITH NAMEPLATES. THE NAMEPLATES SHALL BE ENGRAVED RIGID PLASTIC LAMINATE OR APPROVED EQUAL. WHITE LETTERING ON BLACK BACKGROUND FOR EQUIPMENT 208/120 VOLT AND BLACK LETTERING ON WHITE BACKGROUND FOR EQUIPMENT 480/277 VOLT, AND BE ATTACHED TO THE EQUIPMENT SECURELY WITH SCREWS. EACH NAMEPLATE SHALL GIVE THE NUMBER DESIGNATION OF THE EQUIPMENT AS SHOWN IN THE ONE LINE DIAGRAM AND ALSO THE SOURCE, UTILIZE SIMILAR RED AND WHITE NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT.
3.	ALL WIRING DEVICES (EXCLUDING LIGHT SWITCHES) SHALL BE LABELED WITH SELF-ADHESIVE, LAMINATED TAPE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND PANEL DESIGNATIONS. UTILIZE CLEAR TAPE WITH BLACK LETTERS UNLESS NOTED OTHERWISE. PROVIDE SAMPLE OF LABELS TO ARCHITECT AND LANDLORD FOR APPROVAL PRIOR TO INSTALLATION.
4.	NEW AND EXISTING CIRCUITRY SHALL BE ACCURATELY IDENTIFIED AT THE RESPECTIVE ABOVE CEILING JUNCTION BOXES. THE ASSOCIATED PANEL, CIRCUITS, AND VOLTAGE SHALL BE IDENTIFIED ON ALL JUNCTION BOX COVERS.
5.	ALL CONDUITS LEAVING A PANELBOARD, DISTRIBUTION PANEL, OR MSB SHALL BE PROVIDED WITH PRINTED LABEL INDICATING THE CIRCUITS CONTAINED IN THE CONDUIT WITHIN 3 FT OF THE PANEL CONNECTION.
LIGHTING AND LIGHTING CONTROLS	
1.	FURNISH AND INSTALL LIGHTING FIXTURES OF THE TYPES SCHEDULED ON THE DRAWINGS. FIXTURE MANUFACTURES SHALL BE AS SCHEDULED ON THE DRAWINGS. ALTERNATE MANUFACTURERS WILL BE CONSIDERED IF SUBMITTED 7 DAYS PRIOR TO BID. FIXTURES SHALL BE FURNISHED WITH ALL REQUIRED ACCESSORIES AND TRIM AS REQUIRED FOR A COMPLETE INSTALLATION IN THE CEILING TYPE SHOWN ON THE ARCHITECTURAL DRAWINGS.
2.	A SEPARATE NEUTRAL SHALL BE PULLED FOR EACH DIMMED CIRCUIT.
3.	LED FIXTURES, LAMPS, DRIVERS, AND COMPONENTS, PROVIDE A COMPLETE WARRANTY FOR PARTS AND LABOR FOR A MINIMUM OF FIVE (5) YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
POWER	
1.	COORDINATE THE INSTALLATION OF ELECTRICAL AND COMMUNICATION CONDUIT TO FURNITURE SYSTEMS WITH THE ARCHITECT PRIOR TO THE INSTALLATION OF ELECTRICAL ITEMS. VERIFY IN WRITING WITH THE ARCHITECT THAT THE QUANTITY OF WIRES AND CIRCUITS CORRESPONDS TO THE FURNITURE SYSTEMS THAT WILL BE SUPPLIED TO THIS PROJECT.
2.	PROVIDE HEAVY DUTY DISCONNECTS AS REQUIRED FOR THE PLUMBING AND MECHANICAL EQUIPMENT. COORDINATE WITH ALL TRADES.
3.	WHERE SEPARATE HOME RUNS ARE INDICATED ON THE PLANS, DO NOT UTILIZE THE NEUTRAL OR GROUND CONDUCTOR FOR ANY OTHER CIRCUITS. TERMINATE ONLY AT DEVICES AND PANELBOARD AS INDICATED.
4.	ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH DEDICATED NEUTRALS PER NEC 210.4(B) UNLESS NOTED OTHERWISE. MULTIWIRE BRANCH CIRCUITS MAY BE UTILIZED FOR BREAK ROOM APPLIANCE LOADS. EXISTING MULTIWIRE BRANCH CIRCUITS TO BE RE-UTILIZED, AND FOR LOADS WHERE DEDICATED NEUTRALS ARE NOT POSSIBLE (I.E. FURNITURE SYSTEMS), WHERE MULTIWIRE BRANCH CIRCUITS ARE UTILIZED, PROVIDE HANDLETTES IN LIEU OF MULTIPLE BREAKERS.
5.	ALL EXISTING JUNCTION BOXES, OUTLETS, PULL BOXES, ETC., LOCATED ABOVE NON-ACCESSIBLE CEILINGS SHALL BE REMOVED UNDER THIS TENANT IMPROVEMENT PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR A LOCATION ABOVE AN ACCESSIBLE CEILING, WHERE EXISTING JUNCTION BOXES ARE NOT FEASIBLE TO RE-LOCATE. ELECTRICAL CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER.
6.	AT ALL EXPOSED CEILING AREAS, UTILIZE 3/4" MINIMUM EMT CONDUIT FOR ALL BRANCH CIRCUITRY, FIRE ALARM, AND CONTROLS CABLING. COORDINATE ALL CONDUIT ROUTING WITH THE ARCHITECT PRIOR TO INSTALLATION AND PROVIDE A SHOP DRAWING FOR REVIEW THAT INDICATES ALL PROPOSED CONDUIT ROUTING AT EXPOSED CEILING AREAS. ALL CONDUIT SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO THE LINES OF THE BUILDING AND SHALL BE PAINTED TO MATCH THE FINISH OF THE STRUCTURE.
7.	NEUTRAL CONDUCTORS SHALL BE PROPERLY GROUNDED IN AT LEAST ONE (1) LOCATION WITHIN ANY ENCLOSURE PER NEC 200.4(B).
8.	

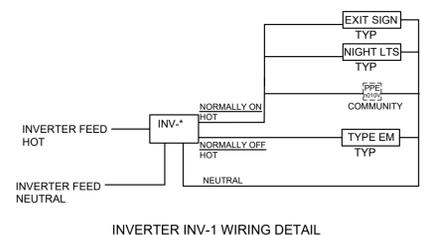
LIGHTING CONTROLS LEGEND		
DEVICE	NOTES	
SW	SENSORSWITCH #sPODMRA*	WALLBOX DIMMER (0-10V)
OS	SENSORSWITCH #WSX-PDT*	SINGLE RELAY, LINE VOLTAGE, WALL MOUNTED. FACTORY SET TO "AUTO ON".
OSM	SENSORSWITCH #WSX-PDT-SA*	SINGLE RELAY, LINE VOLTAGE, WALL MOUNTED. FACTORY SET TO "MANUAL ON".
nLIGHT	#nPODM	nLIGHT ENABLED, DIGITAL SWITCH WITH "OFF/ON".
nLIGHT	#nPODM-DX	nLIGHT ENABLED, DIGITAL ON/OFF WITH RAISE/LOWER CONTROL.
nLIGHT	#nCM-PDT-9	nLIGHT ENABLED, SINGLE CIRCUIT, CEILING MOUNTED, STANDARD ZONE
nLIGHT	#nCM-PDT-10	nLIGHT ENABLED, SINGLE CIRCUIT, CEILING MOUNTED, EXTENDED ZONE
nLIGHT	#nPP16	nLIGHT ENABLED, AUTO ON, POWER PACK.
nLIGHT	#nPP16-SA	nLIGHT ENABLED, MANUAL ON, POWER PACK.
nLIGHT	#nPP16-D	nLIGHT ENABLED, AUTO ON, POWER PACK WITH 0-10V OUTPUT.
nLIGHT	#nPP16-D-SA	nLIGHT ENABLED, MANUAL ON, POWER PACK WITH 0-10V OUTPUT.
nLIGHT	#nPP16-D-ER	nLIGHT ENABLED, AUTO ON, POWER PACK WITH 0-10V OUTPUT AND EMERGENCY OPERATION.

NOTE:
 -DISABLE PHOTO SENSOR OPTION ON ALL OCCUPANCY SENSORS.
 -DISABLE "SELF-ADAPTIVE MODE" ON ALL OCCUPANCY SENSORS
 -SET "DELAYED OFF" SETTING TO 20 MINUTES.
 -FOR ALL nLIGHT ENABLED DEVICES, ROUTE CAT-5E CABLE AS REQUIRED BETWEEN DEVICES. REFERENCE SENSORSWITCH SHOP DRAWINGS FOR WIRING REQUIREMENTS.
 -POWER PACKS INDICATED WITH SAME NUMBER, BUT DIFFERENT LETTER SUFFIX SHALL ALL BE CONTROLLED VIA SAME DIMMER/SWITCH. 1e POWERS PACKS INDICATED WITH "ch1a" AND "ch1b" SHALL BOTH BE CONTROLLED VIA SINGLE DIMMER/SWITCH.
 -WHERE MULTIPLE OCCUPANCY SENSORS ARE INDICATED WITH "LIKE" SWITCH LEG/ZONE DESIGNATIONS, CONNECT ALL OCCUPANCY SENSORS IN PARALLEL SO THAT ANY OF THE OCCUPANCY SENSORS WILL ACTIVATE THE "OCCUPIED" MODE FOR THAT AREA.

LIGHTING CONTROL SYSTEM SHALL BE COMMISSIONED BY nLIGHT.

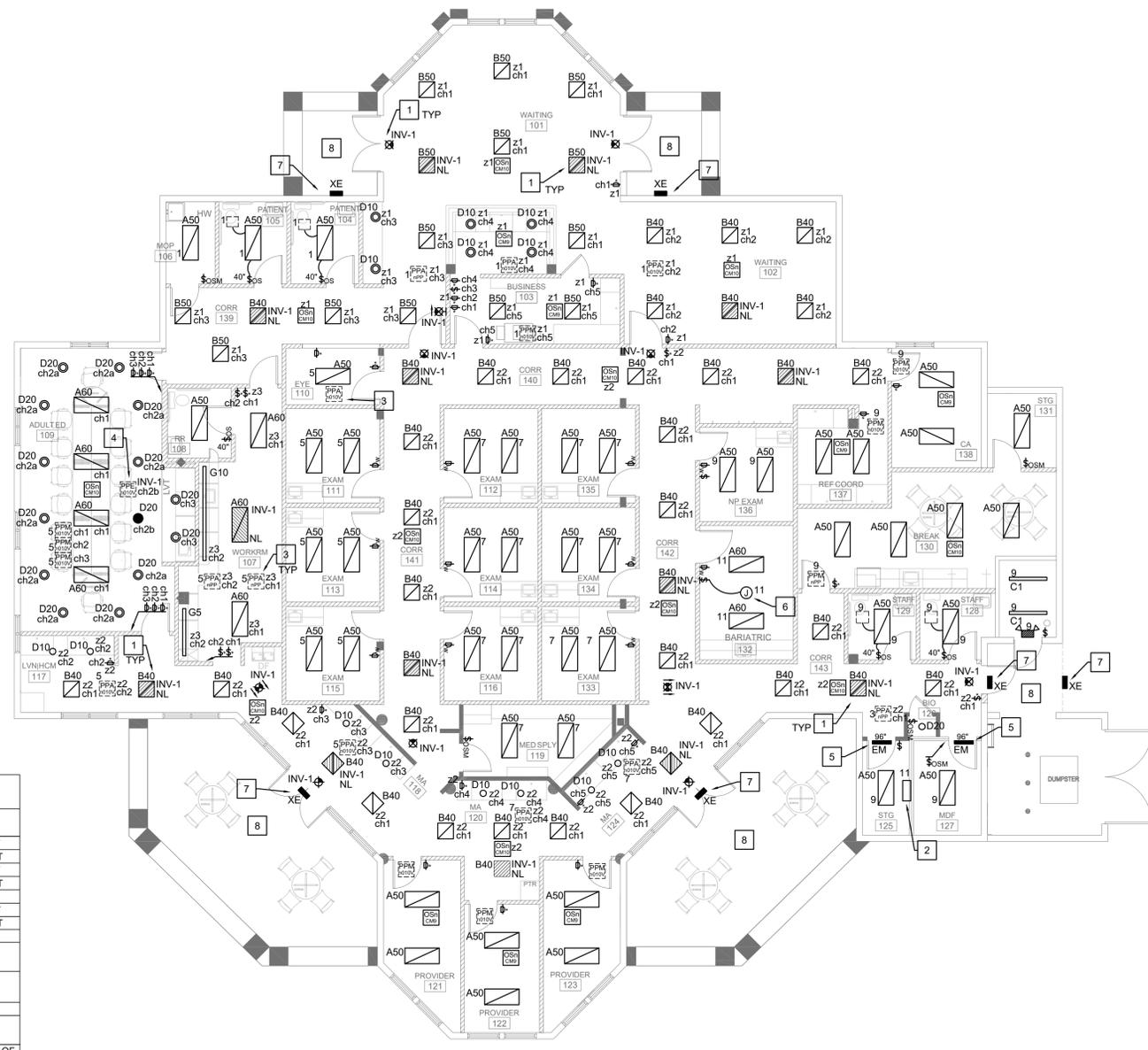
LIGHT FIXTURE SCHEDULE							
MARK	MANUFACTURER	MODEL	VOLTS	MOUNT	LAMPS	WATTS	REMARKS
A50	LITHONIA	#STAKS-2X4-AL06-SWW7	120	RECESSED	LED	48	SET TO 4000K AND 5000 (MED) LUMEN OUTPUT
A60	LITHONIA	#STAKS-2X4-AL06-SWW7	120	RECESSED	LED	48	SET TO 4000K AND 6000 (HIGH) LUMEN OUTPUT
B40	LITHONIA	#STAKS-2X2-AL03-SWW7	120	RECESSED	LED	40	SET TO 4000K AND 4000 (MED) LUMEN OUTPUT
B50	LITHONIA	#STAKS-2X2-AL03-SWW7	120	RECESSED	LED	40	SET TO 4000K AND 5000 (HIGH) LUMEN OUTPUT
C1	LITHONIA	#CLX-L48-5000LM-SEF-FDL-MVOLT-GZ10-40K	120	SURFACE	LED	35	
D10	LITHONIA	#LDN6-AL02-SWW1-LO6-AR-LSS-MVOLT	120	RECESSED	LED	22	SET TO 4000K AND 1000 (LOW) LUMEN OUTPUT
D20	LITHONIA	#LDN6-AL02-SWW1-LO6-AR-LSS-MVOLT	120	RECESSED	LED	22	SET TO 4000K AND 2000 (HIGH) LUMEN OUTPUT
EM	LITHONIA	#CLX-L24-3500LM-SEF-FDL-MVOLT-GZ10-40K	120	SURFACE	LED	26	
G5	JUNO	(2) #UPLD-30-SWW4-90CRI-WH W/ #UCD-JB-M12 SPLICE BOX	120	SURFACE	LED	30	SET TO 4000K
G10	JUNO	(4) #UPLD-30-SWW4-90CRI-WH W/ #UCD-JB-M12 SPLICE BOX	120	SURFACE	LED	60	SET TO 4000K
XE	LITHONIA	#AFB-OEL-DBT-XD-UVOLT-N-WT-CW	120	SURFACE	LED	26	
	LITHONIA	#EU2-LED-M12	120	UNIVERSAL	INCLUDED	3	
	LITHONIA	#EDG--R-120 (NO BATTERY PACK)	120	UNIVERSAL	INCLUDED	3	PROVIDE DIRECTIONAL ARROWS AND NUMBER OF FACES AS INDICATED ON PLANS.

LIGHT FIXTURE SCHEDULE NOTES:
 1. CONTRACTOR SHALL PROVIDE A COMPLETE SUBMITTAL FOR REVIEW BY ARCHITECT AND ENGINEER FOR ALL NEW LIGHT FIXTURES. ALL FINISHES SHALL BE REVIEWED BY ARCHITECT.
 2. 5-YEAR MANUFACTURER WARRANTY IS REQUIRED FOR ALL NEW LED DRIVERS.



FIXTURE	QUANT	WATTS	TOTAL	
A*	1	48	48	VA
B*	12	40	480	VA
D20	1	22	22	VA
EM	2	26	52	VA
EXIT SIGNS	10	3	30	VA
TOTAL LOAD			632	VA
INV SIZE			750	VA
PERCENT LOAD			84%	

INVERTER SCHEDULE				
MARK	MANUFACTURER	MODEL NUMBER	LOAD	DESCRIPTION
INV-1	MYERS	#LV-5R-1	632W	1100VA, NO OUTPUT BREAKERS



- ### LIGHTING KEYED NOTES
- EXIT SIGNS AND LIGHT FIXTURES INDICATED AS EMERGENCY AND/OR NIGHT LIGHTS SHALL BE CONNECTED TO THE NON-SWITCHED EMERGENCY INVERTER CIRCUIT AS INDICATED.
 - EMERGENCY LIGHTING INVERTER. REFERENCE INVERTER DETAIL FOR ADDITIONAL INFORMATION.
 - POWER PACK UTILIZE FOR SWITCH/DIM CONTROL ONLY. NO OCCUPANCY SENSOR CONTROL. TYPICAL AT PATIENT CARE ROOMS AND PERSONNEL SAFETY.
 - EMERGENCY POWER PACK. FIXTURES SHALL SWITCHED/DIMMED AS INDICATED AND SHALL BYPASS LOCAL SWITCH CONTROL UPON LOSS OF NORMAL BUILDING POWER. TO THE "PPE" TRANSFER DEVICE, INSTALL THE UN-SWITCHED NORMAL SOURCE CIRCUIT (FOR VOLTAGE SENSING) AND THE "NORMALLY ON" EMERGENCY CIRCUIT AS INDICATED
 - TYPE EM FIXTURES SHALL BE CONNECT TO THE "NORMALLY OFF" TERMINALS OF THE INVERTER AS INDICATED. UNDER NORMAL CONDITIONS, FIXTURES SHALL BE "OFF". UPON LOSS OF NORMAL BUILDING POWER, LIGHT FIXTURES WILL ENERGIZE TO 100% VIA BATTERY POWER.
 - JUNCTION BOX FOR CONNECTION TO PROCEDURE LIGHT.
 - TYPE EX FIXTURES PROVIDED WITH INTEGRAL BATTERY AND SHALL BE CONNECTED TO THE UN-SWITCHED LIGHTING CIRCUIT SERVING THIS AREA.
 - LIGHTING THIS AREA EXISTING TO REMAIN. REFERENCE GENERAL LIGHTING NOTE #9 THIS SHEET.

- ### LIGHTING GENERAL NOTES
- ALL LIGHT FIXTURES ARE NEW UNLESS NOTED OTHERWISE.
 - ALL EXIT SIGNS ARE NEW UNLESS NOTED OTHERWISE.
 - REFERENCE ELECTRICAL COVER SHEET FOR ADDITIONAL INFORMATION.
 - NUMBER ADJACENT TO FIXTURE INDICATES CIRCUITRY TO "PANEL M" UNLESS NOTED OTHERWISE.
 - FOR ALL TYPE A1 AND B1 LIGHT FIXTURES UTILIZED FOR EMERGENCY, PROVIDE RED LABEL WITH WHITE LETTERS ADJACENT TO LUMEN SELECTOR SWITCH "EMERGENCY FIXTURE CONNECTED TO INVERTER - SET TO MEDIUM OUTPUT - DO NOT CHANGE"
 - WHERE WALL MOUNTED OCCUPANCY SENSORS/LIGHT SWITCHES ARE INSTALLED AT END OF DOOR SWING, GENERAL CONTRACTOR TO INSTALL STUD AT 42" FROM HINGE WALL. INSTALL SWITCH(ES) ON EITHER SIDE OF STUD.
 - LOCATE WALL MOUNTED OCCUPANCY SENSORS/LIGHT SWITCHES ADJACENT TO DOOR JAMBS.
 - CEILING MOUNT OCCUPANCY SENSORS SHALL BE LOCATED AT CENTER OF TILE. REFERENCE ARCHITECTURAL DRAWINGS.
 - EXTERIOR LIGHTING, INCLUDING POLE LIGHTS, LANDSCAPE LIGHTING, WALL PACKS, CANOPY LIGHTING, ARE EXISTING TO REMAIN. FIELD VERIFY FIXTURES ARE FUNCTIONAL. PROVIDE NEW CIRCUITRY AND/OR CONTROLS AS REQUIRED.

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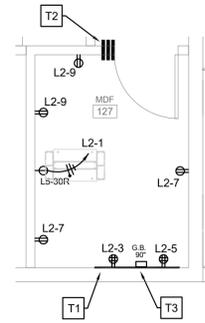
SHEET TITLE

LIGHTING PLAN

PROJECT NO: WTX07J
 DATE: 05.31.24
 REVISION DATES:

SHEET NUMBER

E2.1



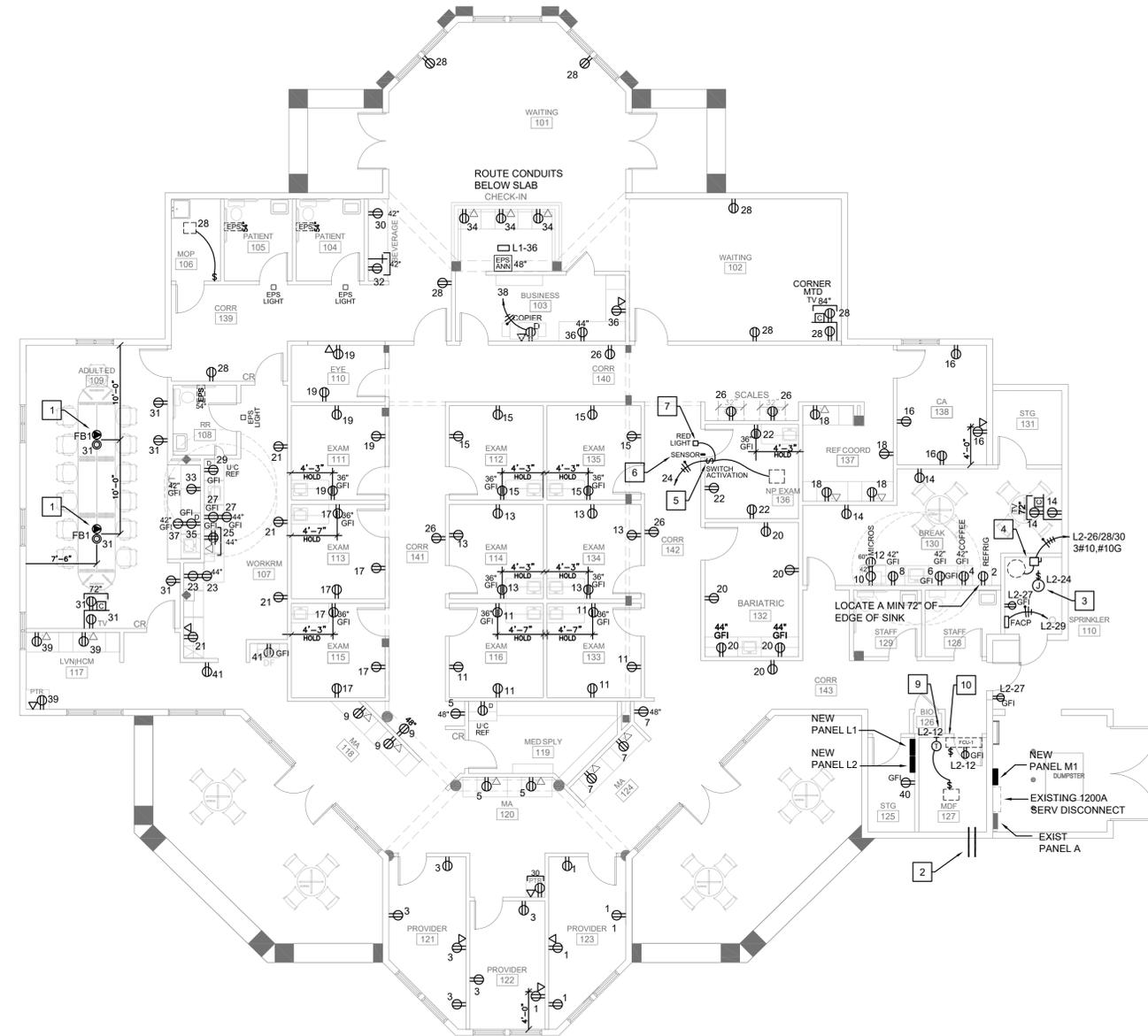
02 MDF ROOM
Scale: 1/4"=1'-0"

TELECOM - GENERAL NOTES

- COORDINATE EXACT LOCATION AND NEMA CONFIGURATION OF ALL WIRING DEVICES THIS ROOM WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE SEPARATE HOT, NEUTRAL, AND GROUND FOR EACH CIRCUIT INDICATED.
- UTILIZE #10 THHN MINIMUM FOR ALL WIRING DEVICES THIS ROOM.
- NUMBER ADJACENT TO WIRING DEVICE THIS ROOM INDICATES CIRCUITRY TO "PANEL L2" UNLESS NOTED OTHERWISE.
- CABLETRAY AND RACKS PROVIDED AND INSTALLED BY DATA CABLING CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL BOND CABLE TRAY TO GROUND BAR THIS ROOM. UTILIZE #6 THHN. BOND CABLETRAY ACROSS CABLETRAY JOINTS WITH #6 THHN.
- SURFACE MOUNT CONDUITS THIS ROOM NOT ACCEPTABLE.

TELECOM - DRAWING NOTES

- T1** INSTALL A 4'X8'X3/4" FIRE-RETARDANT PLYWOOD AS INDICATED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- T2** ROUTE (3) 4" EMT SLEEVES THROUGH WALL FOR DATA CABLING. PROVIDE PLASTIC BUSHINGS AT EACH END. COORDINATE EXACT LOCATION WITH DATA CONTRACTOR.
- T3** HARGER BICSI PATTERN - #GB114412TMGB - (OR EQUAL) 1/4" x 4" x 12" COPPER GROUND BAR WITH PRE-DRILLED HOLES, INSULATORS AND MOUNTING KIT. GROUND BAR SHALL BE MOUNTED AT 7'-6" AFF. ROUTE #4 INSULATED CU GROUND WIRE FROM GROUND BAR TO BUILDING GROUNDING ELECTRODE SYSTEM.



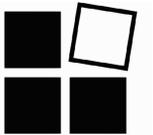
01 POWER PLAN
Scale: 1/8"=1'-0"

POWER DRAWING NOTES

- FB1. WIREMOLD #RPNFB, ROUND DUAL SERVICE NON-METALLIC FLOOR BOX WITH #RP4CTCAL COVER KIT WITH (2) NEMA 5-20R RECEPTACLES AND (4) DATA DATA OPENINGS. ROUTE (1) 3/4" CONDUIT FROM POWER COMPARTMENT FOR POWER. ROUTE (1) 1-1/4" CONDUIT FROM COMMUNICATION COMPARTMENT TO ACCESSIBLE CEILING FOR COMMUNICATION. REFER TO ARCHITECTURALS FOR EXACT LOCATION DIMENSIONS.
- ROUTE (2) 2" CONDUITS AS INDICATED FROM BUILDING DEMARC LOCATION TO IT ROOM. COORDINATE IT ROOM STUB-IN LOCATION WITH DATA CABLING CONTRACTOR. FIELD VERIFY DEMARC LOCATION. NOTIFY ENGINEER WITH ANY DISCREPANCIES.
- JUNCTION BOX FOR CONNECTION TO CIRCULATION PUMP/TIMER. COORDINATE EXACT LOCATION AND WIRING REQUIREMENTS WITH PLUMBING CONTRACTOR.
- 250V/3P/60A/NF DISCONNECT FOR CONNECTION TO WATER HEATER. COORDINATE EXACT LOCATION AND WIRING REQUIREMENTS WITH PLUMBING CONTRACTOR.
- 120V/1P/20A SWITCH - CLEAR WITH ILLUMINATED ON - FOR CONNECTION TO EXHAUST FAN AND RED LIGHT. PROVIDE CLEAR LEXAN TAPE WITH BLUE LETTERS "EXAM ROOM FAN SWITCH". VERIFY EXACT LOCATION WITH TENANT. REFERENCE WIRING DIAGRAM AND WALL DETAIL THIS SHEET.
- PRESSURE INDICATOR PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR - SHOWN FOR REFERENCE ONLY. NO POWER REQUIREMENTS.
- PROVIDE EDWARDS SIGNALING #7641R-1N5 (OR APPROVED EQUAL), 120V, RED DOME STATION. REFERENCE WIRING DIAGRAM AND WALL DETAIL THIS SHEET.
- 120V NURSE CALL WALL MOUNTED CABINET PROVIDED AND INSTALLED BY NURSE CALL INSTALLER. ELECTRICAL CONTRACTOR TO PROVIDE DEDICATED 120V CONNECTION AS INDICATED.
- 120V/1P/20A DISCONNECT SWITCH AND JUNCTION BOX FOR CONNECTION TO EXHAUST FAN. ROUTE CONDUIT AND WIRING AS REQUIRED TO LINE VOLTAGE THERMOSTAT. THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR.
- REFERENCE ELECTRICAL ROOF PLAN FOR ELECTRICAL REQUIREMENTS.

POWER GENERAL NOTES

- ALL WIRING DEVICES ARE NEW UNLESS NOTED OTHERWISE.
- REFER TO SHEET ELECTRICAL COVER SHEET FOR ADDITIONAL ELECTRICAL GENERAL NOTES.
- NUMBER ADJACENT TO WIRING DEVICE INDICATES CIRCUITRY TO PANEL L1 UNLESS NOTED OTHERWISE.
- IN EXAM ROOMS AND PATIENT CARE AREAS, ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 517. IN LIEU OF INSTALLING BRANCH CIRCUITS IN METAL RACEWAYS, TYPE MC-HCF CABLE (HEALTHCARE FACILITIES CABLE) IS ACCEPTABLE WHERE CONCEALED WITHIN WALLS AND TO A MAXIMUM 48" TO CONNECTING JUNCTION BOX ABOVE CEILING. TYPE MC-HCF CABLE SHALL BE PROPERLY COLOR CODED, SUPPORTED AS REQUIRED PER THE NEC.
- PROVIDE TAMPER RESISTANT RECEPTACLES FOR ALL WIRING DEVICES AS REQUIRED PER NEC 406.12 FOR CLINICS - BUSINESS OFFICES, CORRIDORS, WAITING ROOMS, AND THE LIKE
- CARD READERS SHOWN FOR REFERENCE ONLY. NO ELECTRICAL SCOPE.
- DEMOLISH BRANCH CONDUCTORS TO EXISTING FLOOR BOXES/JUNCTION BOXES. REMOVED COVER PLATES AND FILL IN WITH CONCRETE/FLOOR LEVELER AS REQUIRED. COORDINATE WITH GENERAL CONTRACTOR. REFER TO "DEMOLITION NOTES" ON ELECTRICAL COVER SHEET FOR ADDITIONAL REQUIREMENTS.



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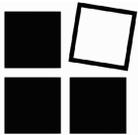
SHEET TITLE

POWER PLAN

PROJECT NO: WTX07J
DATE: 05.31.24
REVISION DATES:

SHEET NUMBER

E3.1



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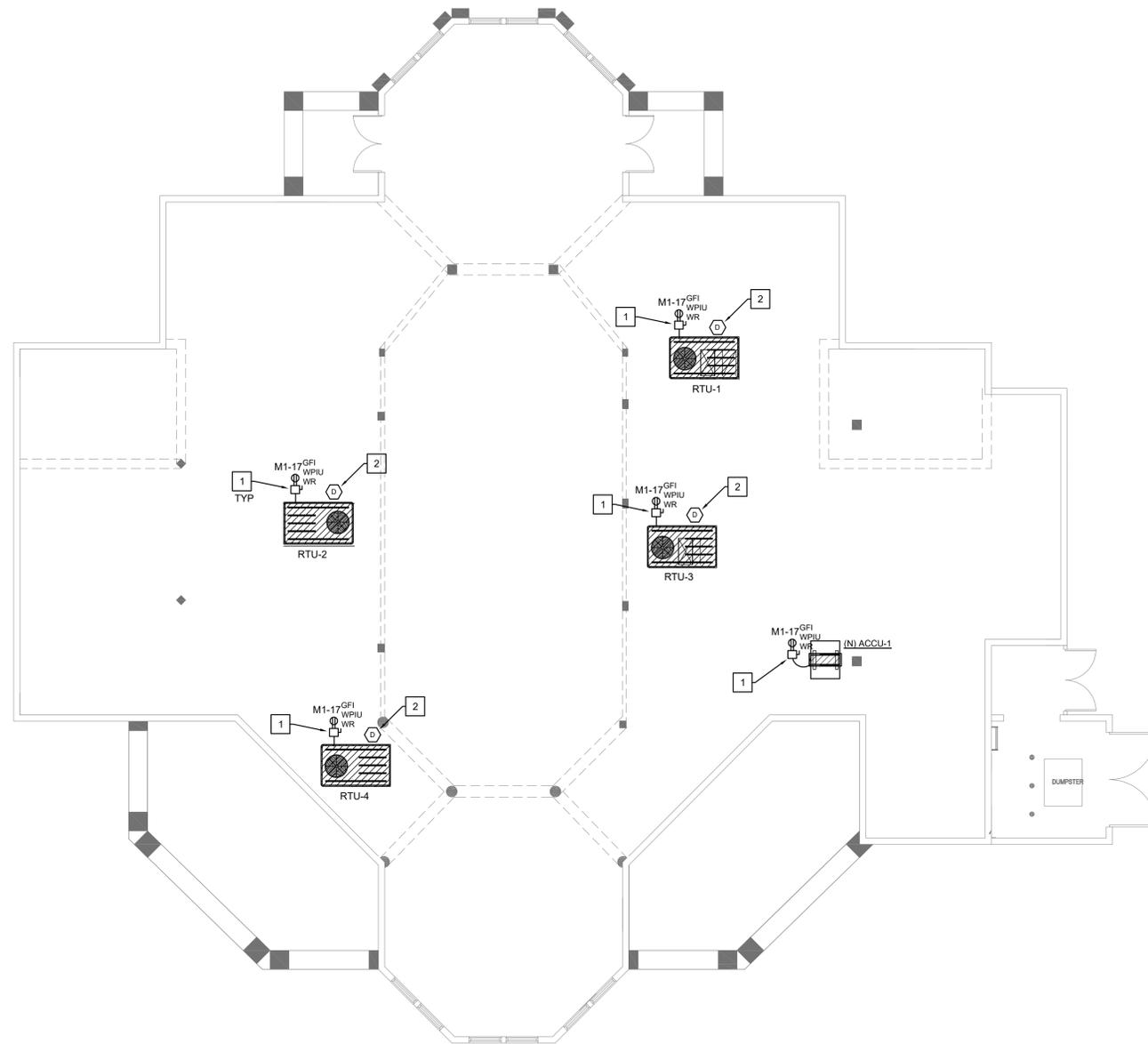
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SHEET TITLE

ELECTRICAL ROOF PLAN

PROJECT NO: WTX07J
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SHEET NUMBER



01 ELECTRICAL ROOF PLAN

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

MECHANICAL EQUIPMENT CIRCUITING SCHEDULE

MECHANICAL EQUIPMENT MARK	EQUIP ELECTRICAL DATA			CONDUCTORS / CONDUIT	CIRCUIT DESIGNATION	DISCONNECT
	VOLTS	PH	MAX. INSCR. CIRCUIT BREAKER			
RTU-1	208	3	40/3	3#8,#10G	M1-1/3/5	208V/3P/60A/NF/NEMA 3R
RTU-2	208	3	40/3	3#8,#10G	M1-7/9/11	208V/3P/60A/NF/NEMA 3R
RTU-3	208	3	35/3	3#8,#10G	M1-2/4/6	208V/3P/60A/NF/NEMA 3R
RTU-4	208	3	40/3	3#8,#10G	M1-8/10/12	208V/3P/60A/NF/NEMA 3R
FCU-1/ACCU-1	208	1	20/2	2#10,#10G 2#10,#10G	M1-13/15	208V/2P/30A/NF/NEMA 3R (ACCU-1) 208V/2P/20A SWITCH (FCU-1)

MECHANICAL EQUIPMENT CIRCUITING SCHEDULE NOTES:

- FOR RTU'S, ALL DISCONNECTS SHALL BE SURFACE MOUNTED ON UNIT. UTILIZE MECHANICAL ROOF CURB FOR CONDUIT PENETRATION. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR.
- FOR FCU-1/ACCU-1, ELECTRICAL CONTRACTOR SHALL INSTALL WIRING FROM OUTDOOR UNIT TO INDOOR UNIT AS REQUIRED. COORDINATE EXACT WIRING REQUIREMENTS WITH MANUFACTURER AND MECHANICAL CONTRACTOR. REMOTE MOUNT DISCONNECT ON UNI-STRUT.

DRAWING NOTES

- REFERENCE "MECHANICAL CIRCUITING SCHEDULE" FOR DISCONNECT AND CIRCUIT REQUIREMENTS.
- FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT MOUNTED SMOKE DETECTORS AND AIR SAMPLING TUBES AS REQUIRED PER CODE. DUCT DETECTORS AND SAMPLING TUBES INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR.

ROOF - GENERAL NOTES

- PROVIDE B-LINE "C" SERIES SUPPORTS FOR CONDUIT RUNS ON ROOFTOP. EXTERIOR CONDUIT SHALL BE EMT. UTILIZE LPMC "SEALTIGHT" FOR VIBRATION ISOLATION.
- COORDINATE INSTALLATION OF DISCONNECTS AT MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR AND ROOFING CONTRACTOR.
- PROVIDE UNI-STRUT SUPPORT RACKS AS REQUIRED. SUPPORT RACKS SHALL BE PERMANENT FIXED TO ROOF STRUCTURE.
- REFER TO ELECTRICAL POWER PLANS FOR THE REFERENCED PANEL LOCATION AND REFER TO THE PANEL SCHEDULE FOR CIRCUIT BREAKER REQUIREMENTS.
- ALL ROOF PENETRATIONS AND REQUIREMENTS SHALL BE COORDINATED WITH THE ROOF SYSTEM CONTRACTOR.
- ALL ROOF RECEPTACLES SHALL BE GFCI TYPE AND PROVIDED WITH WEATHERPROOF WHILE IN USE COVER AND SHALL BE WEATHER RESISTANT TYPE.
- REFER TO THE ROOF MECHANICAL PLAN FOR THE EXACT LOCATION OF EQUIPMENT.

THE ROOF SYSTEM INSTALLED IN THIS BUILDING MAY HAVE A WARRANTY. THE CONTRACTOR SHALL COMPLY WITH ALL WARRANTY GUIDELINES WHILE INSTALLING EQUIPMENT ON THE ROOF. THIS INCLUDES THE INSTALLATION OF ROOF PENETRATIONS, EQUIPMENT CURBS AND REFRIGERANT PIPE SUPPORTS.

THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY TO ENSURE THAT THE ROOF WARRANTY IS NOT VOIDED DUE TO CONSTRUCTION ASSOCIATED WITH THIS PROJECT.

WM - KELLER
WYLIE & ASSOCIATES

Available Fault Current Calculation

Utility Fault Current = 23,132 amperes kVA = 150 Ver 6.3
 I = $\frac{kVA \times 1000}{E} = \text{trans. FLA}$ E = 208 jwp145@earthlink.net
 $E \times 1.732$ trans. FLA = 416

$I_{sc} = \frac{\text{trans. FLA} \times 100}{\text{transformer Z}} =$ 416
 $I_{sc} =$ amperes short-circuit current RMS symmetrical $I_{sc} =$ 23,132 amperes

Point to Point Method Length (distance) = 50 Three Phase 208/120
 Length (distance) (ASC) $I_{sc} =$ 23,132 Copper in Nonmetallic Raceway
 1.732 x L x I # conductors per phase N = 3
 N x C x E L-N Phase conductor constant C = 28,033 Phase Conductor 600 kcmil
 Volt Line to Line E L-L = 208 Volt
 f = 0.115
 Neutral conductor constant C = 28,033 Neutral Conductor 600 kcmil
 Volt Line to Neutral E L-N = 120 Volt
 f = 0.198

Multiplier M = $\frac{1}{1+f}$ Line to Line M = 0.897
 Line to Neutral M = 0.834

Fault Current at Service Equipment
 $I_{sc} \times M =$ fault current at terminals of main disconnect L-L = 20,755 amperes
 $I_{sc} \times M =$ fault current at terminals of main disconnect L-N = 19,301 amperes

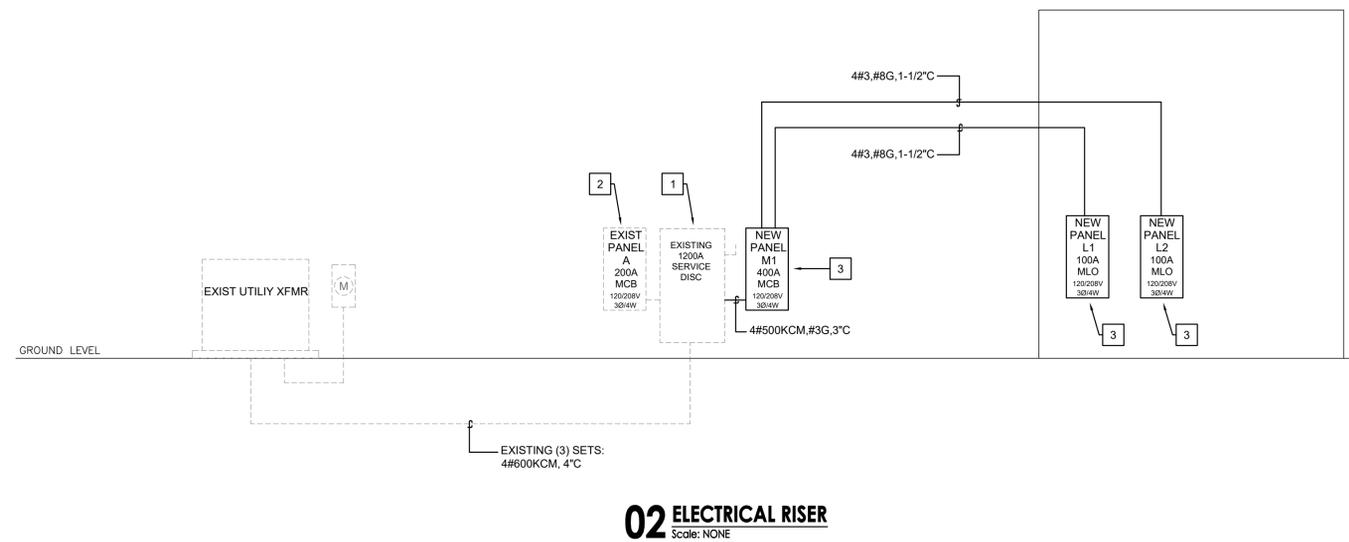
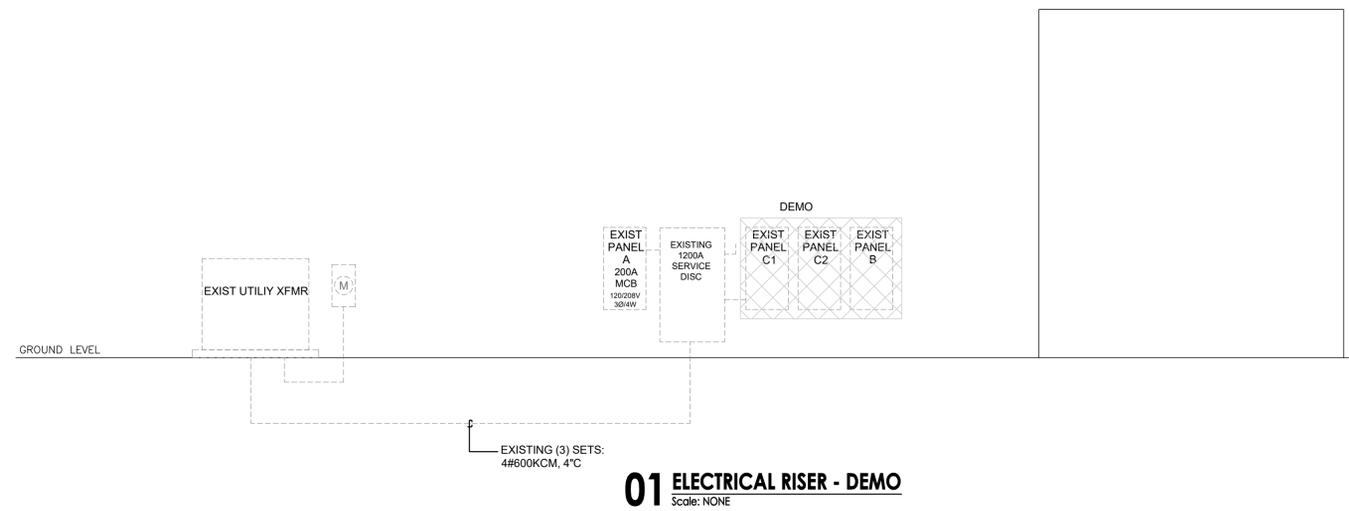
Fault Current from DISCONNECT TO PANEL Copper in Metal Raceway Three Phase

Three Phase Feeder Length (distance) = 30 Three Phase
 Length (distance) (ASC) $I_{sc} =$ 20,755 Phase 19,301 Neutral
 1.732 x L x I # conductors per phase N = 1
 N x C x E L-N Phase conductor constant C = 4,633 Phase Conductor 3
 Volt Line to Line E L-L = 208 Volt
 f = 1.119
 Neutral conductor constant C = 4,633 Neutral Conductor 3
 Volt Line to Neutral E L-N = 120 Volt
 f = 1.804

Multiplier M = $\frac{1}{1+f}$ Line to Line M = 0.472
 Line to Neutral M = 0.357

$I_{sc} \times M =$ fault current at terminal of the panel L-L = 9,794 amperes
 $I_{sc} \times M =$ fault current at terminal of the panel L-N = 6,884 amperes

Calculation does not include motor contribution



GENERAL NOTES:

1. PROVIDE ARC FLASH LABELING FOR ALL NEW EQUIPMENT AS REQUIRED PER NEC ARTICLE 110.16 AND NFPA-70E.
2. UTILIZE COMPRESSION TYPE TERMINATIONS FOR ALL ALUMINUM CONDUCTOR TERMINATIONS. PROVIDE COMPLETE SUBMITTAL INFO FOR THE TERMINATIONS FOR APPROVAL PRIOR TO PURCHASE.

ELECTRICAL RISER - DRAWING NOTES

1. EXISTING SERVICE DISCONNECT TO REMAIN.
2. EXISTING PANELBOARD TO REMAIN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EQUIPMENT DOES NOT HAVE ANY INTERNAL DAMAGE. NOTIFY ENGINEER WITH ANY DISCREPANCIES.
3. NEW 120/208V, 3Ø, 4W PANELBOARD. PROVIDE NAMEPLATE AND TYPED PANELBOARD INDEX. RE: PANEL SCHEDULE FOR ADDITIONAL REQUIREMENTS.

DISC (EXIST)							MOUNTING: SURFACE		
LOCATION: 208 120 VOLT (L-L / L-N) 3 PH 4 W 100% NEUTRAL							ENCLOSURE: NEMA 3R		
1200 AMP									
LIGHTING (KVA)	RCPT (KVA)	MOTORS (KVA)	FIXED ELEC HTG (KVA)	KITCHEN EQUIP (KVA)	OTHER EQUIP (KVA)	PHASE	CONNECTED LOAD (KVA)	DESIGN LOAD KVA	DESIGN LOAD AMPS
IMMEDIATELY DOWNSTREAM ELECTRICAL EQUIPMENT CONNECTED LOADS (KVA):									
5.20	0.00	0.00	0.00	0.00	1.20	-	PANEL A	7.70	21
6.13	13.20	0.20	23.44	0.00	43.69	-	PANEL M1	86.60	241
11.33	13.20	0.20	23.44	0.00	44.89	-	TOTAL DESIGN LOAD:	94.30	262



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SEALS



Wylie ENGINEERING
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Project No. www.wylieeng.com



PROJECT

WELLMED CLINIC

KELLER
1110 KELLER PARKWAY
KELLER, TX 76248

SHEET TITLE

ELECTRICAL RISER & SCHEDULES

PROJECT NO: WTX07J
DATE: 05.31.24
REVISION DATES:

SHEET NUMBER

E5.1

PANELBOARD: A (EXIST)										
LOCATION:										
208	120	VOLT (L-L / L-N)	3 PH 4 W 100% NEUTRAL			MOUNTING: SURFACE				
200		AMP PANEL	WITH COPPER EQUIPMENT GROUND BAR			ENCLOSURE: NEMA 3R				
200		AMP MAIN BREAKER				AIC & SCCR:				
NOTES	KVA	LOAD DESCRIPTION	AMP / PH	PHASE			AMP / PH	LOAD DESCRIPTION	KVA	NOTES
0.00		SPARE	20 / 1	1	X	2	20 / 1	SPARE	0.00	
0.00		SPARE	20 / 1	3	X	4	20 / 1	SPARE	0.00	
0.00		SPARE	20 / 1	5	X	6	20 / 1	SPARE	0.00	
0.00		SPARE	20 / 1	7	X	8	20 / 1	SPARE	0.00	
0.00		SPARE	20 / 1	9	X	10	20 / 1	SPARE	0.00	
0.00		SPARE	20 / 1	11	X	12	20 / 1	SPARE	0.00	
0.00		SPARE	20 / 1	13	X	14	20 / 1	SPARE	0.00	
0.00		SPARE	20 / 1	15	X	16	100 / 2	SPARE	0.00	
0.00		SPARE	20 / 1	17	X	18	/		0.00	
0.00		SPARE	20 / 1	19	X	20	20 / 1	SPARE	0.00	
0.00		SPARE	20 / 1	21	X	22	20 / 1	SPARE	0.00	
EXISTING	0.00	OUTSIDE LIGHTS	20 / 1	23	X	24	20 / 1	PORCH LIGHTS	1.00	EXISTING
0.00		SPARE	20 / 1	25	X	26	20 / 1	SPARE	0.00	
0.00		SPARE	20 / 1	27	X	28	20 / 1	SPARE	0.00	
0.00		SPARE	20 / 1	29	X	30	20 / 1	SIGN	0.50	EXISTING
0.00		SPARE	20 / 1	31	X	32	20 / 1	SPARE	0.00	
0.00		SPARE	20 / 1	33	X	34	20 / 1	PAKRING LIGHTS (FRONT)	1.50	EXISTING
EXISTING	0.70	SIGN	20 / 1	35	X	36	20 / 1	PARKING LIGHTS	1.50	EXISTING
0.00		SPARE	20 / 1	37	X	38	20 / 1	SPARE	0.00	
EXISTING	0.60	SIGN	30 / 2	39	X	40	20 / 1	SPARE	0.00	
0.00			/	41	X	42	20 / 1	SPARE	0.00	

LIGHTING (KVA)	RCPT (KVA)	MOTORS (KVA)	FIXED ELEC HTG (KVA)	KITCHEN EQUIP (KVA)	OTHER EQUIP (KVA)	PHASE	CONNECTED LOAD (KVA)	KVA	AMPS
0.00	0.00	0.00	0.00	0.00	0.00	A	0.00	0.00	0
2.10	0.00	0.00	0.00	0.00	0.00	B	2.10	2.63	22
3.10	0.00	0.00	0.00	0.00	1.20	C	4.30	5.08	42
5.20	0.00	0.00	0.00	0.00	1.20	TOTAL	6.40	7.70	21
125%	+	100% (125% OF LARGEST MOTOR)	100%	100%	100%	DESIGN FACTORS (+ = FIRST 10KVA @ 100%, BAL @ 50% PROP.)			

NOTES:

IMMEDIATELY DOWNSTREAM ELECTRICAL EQUIPMENT CONNECTED LOADS (KVA):	LOAD DESCRIPTION:	DESIGN LOAD:
0.00	11.92	0.00
6.13	0.56	0.20
6.13	13.20	0.20
		23.44
		0.00
		43.69
		-
		86.60
		241

PANELBOARD: M1 (NEW)										
LOCATION:										
208	120	VOLT (L-L / L-N)	3 PH 4 W 100% NEUTRAL			MOUNTING: SURFACE				
400		AMP PANEL	WITH COPPER EQUIPMENT GROUND BAR			ENCLOSURE: NEMA 3R				
400		AMP MAIN BREAKER				AIC & SCCR: 25K RMS SYM, SERIES				
NOTES	KVA	LOAD DESCRIPTION	AMP / PH	PHASE			AMP / PH	LOAD DESCRIPTION	KVA	NOTES
3.38		RTU-1	40 / 3	1	X	2	35 / 3	RTU-3	3.05	
3.38			/	3	X	4	/		3.05	
3.38			/	5	X	6	/		3.05	
3.38		RTU-2	40 / 3	7	X	8	40 / 3	RTU-4	3.38	
3.38			/	9	X	10	/		3.38	
3.38			/	11	X	12	/		3.38	
1.58		ACCU/FCU-1	20 / 2	13	X	14	20 / 1	SPARE	0.00	
1.58			/	15	X	16	20 / 1	SPARE	0.00	
0.72		ROOF RECEPTACLES	20 / 1 GFI	17	X	18	20 / 1	SPARE	0.00	
0.00		SPARE	20 / 1	19	X	20	100 / 3	PANEL L1		
0.00		SPARE	20 / 1	21	X	22	/			
0.00		SPARE	20 / 1	23	X	24	/			
0.00		SPARE	20 / 1	25	X	26	100 / 3	PANEL L2		
0.00		SPARE	20 / 1	27	X	28	/			
0.00		SPARE	20 / 1	29	X	30	/			

LIGHTING (KVA)	RCPT (KVA)	MOTORS (KVA)	FIXED ELEC HTG (KVA)	KITCHEN EQUIP (KVA)	OTHER EQUIP (KVA)	PHASE	CONNECTED LOAD (KVA)	KVA	AMPS
0.00	0.00	0.00	8.34	0.00	6.43	A	14.77	14.77	123
0.00	0.00	0.00	8.34	0.00	6.43	B	14.77	14.77	123
0.00	0.72	0.00	6.76	0.00	6.43	C	13.91	13.82	115
0.00	0.72	0.00	23.44	0.00	19.29	TOTAL	43.45	43.36	120
125%	+	100% (125% OF LARGEST MOTOR)	100%	100%	100%	DESIGN FACTORS (+ = FIRST 10KVA @ 100%, BAL @ 50% PROP.)			

NOTES:

IMMEDIATELY DOWNSTREAM ELECTRICAL EQUIPMENT CONNECTED LOADS (KVA):	LOAD DESCRIPTION:	DESIGN LOAD:
0.00	11.92	0.00
6.13	0.56	0.20
6.13	13.20	0.20
		23.44
		0.00
		43.69
		-
		86.60
		241

PANELBOARD: L1 (NEW)										
LOCATION:										
208	120	VOLT (L-L / L-N)	3 PH 4 W 100% NEUTRAL			MOUNTING: SURFACE				
100		AMP MAIN LUGS ONLY	WITH COPPER EQUIPMENT GROUND BAR			ENCLOSURE: NEMA 1				
0		NO MAIN BREAKER				AIC & SCCR: 10K RMS SYM,				
NOTES	KVA	LOAD DESCRIPTION	AMP / PH	PHASE			AMP / PH	LOAD DESCRIPTION	KVA	NOTES
0.90		PROVIDER	20 / 1	1	X	2	20 / 1	REFRIGERATOR	0.80	
1.08		PROVIDER	20 / 1	3	X	4	20 / 1	COFFEE	1.20	
0.36		NURSE STATION	20 / 1	5	X	6	20 / 1	BREAK COUNTER	0.18	
0.54		NURSE STATION	20 / 1	7	X	8	20 / 1	BREAK COUNTER	0.18	
0.54		NURSE STATION	20 / 1	9	X	10	20 / 1 GFI	MICROWAVE	1.20	
1.08		EXAM ROOM	20 / 1	11	X	12	20 / 1 GFI	MICROWAVE	1.20	
1.08		EXAM ROOM	20 / 1	13	X	14	20 / 1	BREAK ROOM	0.72	
1.08		EXAM ROOM	20 / 1	15	X	16	20 / 1	OFFICE	0.72	
1.08		EXAM ROOM	20 / 1	17	X	18	20 / 1	REF COORD	0.54	
1.08		EXAM ROOM	20 / 1	19	X	20	20 / 1	EXAM ROOM	0.90	
0.72		WORKROOM	20 / 1	21	X	22	20 / 1	NP EXAM ROOM	0.54	
0.36		WORKROOM COUNTER	20 / 1	23	X	24	20 / 1	NP EXAM ROOM FAN	0.20	
0.36		WORKROOM COUNTER	20 / 1	25	X	26	20 / 1	GP RECEPTACLES	0.90	
0.36		WORKROOM COUNTER	20 / 1	27	X	28	20 / 1	WAITING ROOM	1.44	
0.18		WORKROOM REF	20 / 1 GFI	29	X	30	20 / 1	WAITING BEVERAGE	0.18	
1.44		ADULT ED	20 / 1	31	X	32	20 / 1	WAITING BEVERAGE	1.20	
1.20		ADULT ED COUNTER	20 / 1	33	X	34	20 / 1	CHECK-IN	0.54	
0.40		ADULT ED REF	20 / 1 GFI	35	X	36	20 / 1	BUSINESS COUNTER	0.36	
0.18		ADULT ED COUNTER	20 / 1	37	X	38	20 / 1	COPIER	0.80	
0.54		NURSE STATION	20 / 1	39	X	40	20 / 1	SPARE	0.00	
0.40		EVC	20 / 1 GFI	41	X	42	20 / 1	SPARE	0.00	

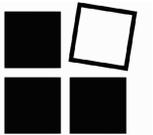
LIGHTING (KVA)	RCPT (KVA)	MOTORS (KVA)	FIXED ELEC HTG (KVA)	KITCHEN EQUIP (KVA)	OTHER EQUIP (KVA)	PHASE	CONNECTED LOAD (KVA)	KVA	AMPS
0.00	6.12	0.00	0.00	0.00	4.96	A	11.08	10.59	88
0.00	3.96	0.00	0.00	0.00	7.20	B	11.16	10.84	90
0.00	1.84	0.00	0.00	0.00	3.60	C	5.44	5.29	44
0.00	11.92	0.00	0.00	0.00	15.76	TOTAL	27.68	26.72	74
125%	+	100% (125% OF LARGEST MOTOR)	100%	100%	100%	DESIGN FACTORS (+ = FIRST 10KVA @ 100%, BAL @ 50% PROP.)			

NOTES:

PANELBOARD: L2 (NEW)										
LOCATION:										
208	120	VOLT (L-L / L-N)	3 PH 4 W 100% NEUTRAL			MOUNTING: SURFACE				
100		AMP MAIN LUGS ONLY	WITH COPPER EQUIPMENT GROUND BAR			ENCLOSURE: NEMA 1				
0		NO MAIN BREAKER				AIC & SCCR: 10K RMS SYM,				
NOTES	KVA	LOAD DESCRIPTION	AMP / PH	PHASE			AMP / PH	LOAD DESCRIPTION	KVA	NOTES
1.06		LIGHTING	20 / 1	1	X	2	30 / 1	MDF -L5-30R	1.00	
0.98		LIGHTING	20 / 1	3	X	4	20 / 1	MDF FOURPLEX	0.36	
0.73		LIGHTING	20 / 1	5	X	6	20 / 1	MDF FOURPLEX	0.36	
1.48		LIGHTING	20 / 1	7	X	8	20 / 1	MDF ROOM	0.36	
0.95		LIGHTING	20 / 1	9	X	10	20 / 1	MDF ROOM	0.36	
0.30		LIGHTING	20 / 1	11	X	12	20 / 1	MDF HVAC COND PUMP	0.20	
0.63		INV-1	20 / 1	13	X	14	20 / 1	SPARE	0.00	
0.00		SPARE	20 / 1	15	X	16	20 / 1	SPARE	0.00	
0.00		SPARE	20 / 1	17	X	18	20 / 1	SPARE	0.00	
0.00		SPARE	20 / 1	19	X	20	20 / 1	SPARE	0.00	
0.00		SPARE	20 / 1	21	X	22	20 / 1	SPARE	0.00	
0.00		SPARE	20 / 1	23	X	24	20 / 1	HW CIRC PUMP	0.20	
0.00		SPARE	20 / 1	25	X	26	30 / 3	WATER HEATER	2.00	
0.36		FIRE RISER GP RECEPT	20 / 1	27	X	28	/		2.00	
0.20		FIRE ALARM PANEL	20 / 1	29	X	30	/		2.00	

LIGHTING (KVA)	RCPT (KVA)	MOTORS (KVA)	FIXED ELEC HTG (KVA)	KITCHEN EQUIP (KVA)	OTHER EQUIP (KVA)	PHASE	CONNECTED LOAD (KVA)	KVA	AMPS
3.17	0.00	0.00	0.00	0.00	3.36	A	6.53	7.33	61
1.93	0.36	0.00	0.00	0.00	2.72	B	5.01	5.50	46
1.03	0.20	0.20	0.00	0.00	2.56	C	3.99	4.25	35
6.13	0.56	0.20	0.00	0.00	8.64	TOTAL	15.53	17.07	47
125%	+	100% (125% OF LARGEST MOTOR)	100%	100%	100%	DESIGN FACTORS (+ = FIRST 10KVA @ 100%, BAL @ 50% PROP.)			

NOTES:



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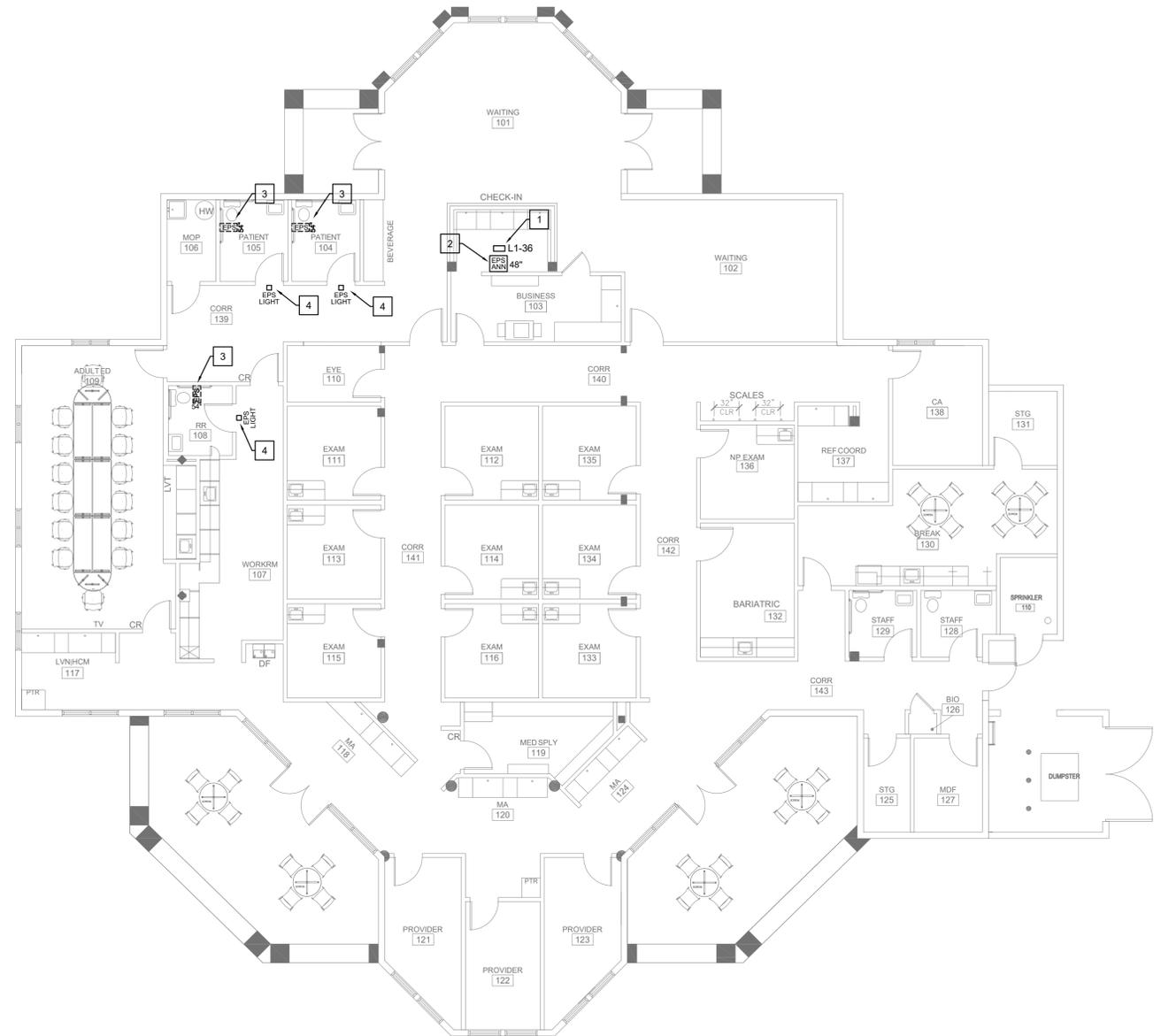
SEALS



06/02/2014



9050 N. Capital of Texas Hwy., Suite 365</



01 NURSE CALL SYSTEM - PLAN
Scale: 1/8"=1'-0"

NURSE CALL - GENERAL NOTES:

1. NURSE CALL SYSTEM SHALL BE CORNELL 4000 SERIES.
2. REFERENCE MANUFACTURER INSTALLATION CRITERIA FOR ADDITIONAL REQUIREMENTS.
3. NURSE CALL SYSTEM SHALL BE PROVIDED WITH ALL ACCESSORIES AND COMPONENTS AS REQUIRED FOR A FUNCTIONAL SYSTEM.
4. PROVIDE AND INSTALL ALL WIRING AS REQUIRED FOR A FUNCTIONAL SYSTEM.
5. NURSE CALL SYSTEM - CORNELL 4000 SERIES SHALL INCLUDE, BUT NOT LIMITED TO:

CORNELL	#P-512241A 24VDC POWER SUPPLY (OR EQUAL)
CORNELL	#A-4003A OR A-4006A THREE OR SIX ZONE ANNUNCIATOR STATION AS REQUIRED
CORNELL	#E-114-3 EMERGENCY PULL CORD STATION
CORNELL	#L-101 SINGLE STATUS CORRIDOR LIGHT

NURSE CALL - DRAWING NOTES:

1. CORNELL #P-512241A 24VDC POWER SUPPLY (OR EQUAL) 24VDC POWER SUPPLY MOUNTED IN ACCESSIBLE CEILING ABOVE ANNUNCIATOR PANEL.
2. PROVIDE AND INSTALL CORNELL #A-4003A THREE ZONE ANNUNCIATOR STATION. PROVIDE MULTI-GANG MASONRY STYLE BACK-BOX - GANGIBLE BACK BOXES NOT ACCEPTABLE.
3. PROVIDE AND INSTALL CORNELL #E-114-3 EMERGENCY PULL CORD STATION. STATION SHALL BE MOUNTED ON STANDARD OUTLET BOX WITH SINGLE-GANG MUD RING.
4. PROVIDE AND INSTALL CORNELL #L-101 SINGLE STATUS CORRIDOR LIGHT. CORRIDOR LIGHT SHALL BE MOUNTED ON STANDARD OUTLET BOX WITH SINGLE-GANG MUD RING.



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TX Firm No. 1869
Project No.



PROJECT

WELLMED CLINIC

KELLER
1110 KELLER PARKWAY
KELLER, TX 76248

SHEET TITLE

NURSE CALL SYSTEM PLAN

PROJECT NO: WTX07J
DATE: 05.31.24
REVISION DATES:

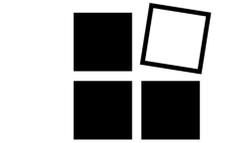
SHEET NUMBER

E8.1

LEGEND OF PLUMBING SYMBOLS			
NOTES: 1. ALL SYMBOLS / ABBREVIATIONS MAY NOT BE USED ON THESE DRAWINGS.			
SYMBOL	ABV.	DESCRIPTION	
	B	BUTANE	AAP AREA ALARM PANEL
	CDWR	CHILLED DRINKING WATER RETURN	AAV AUTOMATIC AIR VENT
	CDWS	CHILLED DRINKING WATER SUPPLY	A.F.F. ABOVE FINISHED FLOOR
	D	DRAIN PIPING	AP ACCESS PANEL
	DSP	DRY SPRINKLER PIPE	B.F.F. BELOW FINISHED FLOOR
	F	FIRE LINE	BFP BACKFLOW PREVENTER
	G	NATURAL GAS PIPING	BOB BOTTOM OF BEAM
	GW	GREASE WASTE ABOVE SLAB	BOP BOTTOM OF PIPE
	GW	GREASE WASTE BELOW SLAB	BTUH BRITISH THERMAL UNITS PER HOUR
	HPR	STEAM (LOW PRESSURE RETURN)	C/C CUT AND CAP
	HPS	STEAM (LOW PRESSURE SUPPLY)	CFH CUBIC FEET PER HOUR
	OFD	STORM OVER FLOW DRAIN	CFB CUBIC FEET PER SECOND
	P	PROPANE GAS PIPING	CI CAST IRON
	PSS	PUMPED SANITARY SEWER	CLG CEILING
	PSD	PUMPED STORM SEWER	CO CLEANOUT
	SD	STORM DRAIN ABOVE SLAB	CONN CONNECTION
	SD	STORM DRAIN BELOW SLAB	CONT. CONTINUATION
	SP	SPRINKLER LINE	DF DRINKING FOUNTAIN
	SS	SANITARY SEWER ABOVE SLAB	DPV DRY PIPE VALVE
	SS	SANITARY SEWER BELOW SLAB	DWG. DRAWING
	SV	SANITARY VENT	EA EACH
	CV	COLD WATER	EDF ELECTRIC DRINKING FOUNTAIN
	SW	SOFT WATER	FCO FLOOR CLEANOUT
	HW	HOT WATER	FD FLOOR DRAIN
	HWR	HOT WATER RETURN	FDV FIRE DEPARTMENT VALVE
		DIRECTION OF FLOW	F.F. FINISHED FLOOR
		DIRECTION OF SLOPE DOWN	FHC FIRE HOSE CABINET
		DROP IN PIPE	F.L. FLOW LINE
		RISE IN PIPE	FS FLOOR SINK
		GATE VALVE	FT FEET
		BALL VALVE	FU FIXTURE UNITS
		CHECK VALVE	GC GENERAL CONTRACTOR
		SUPERVISED VALVE WITH FLOW SWITCH	GPH GALLONS PER HOUR
		SUPERVISED VALVE IN VERTICAL	GPM GALLONS PER MINUTE
		PLUG VALVE / GAS COCK	HB HOSE BIBB
		BUTTERFLY VALVE	HP HORSEPOWER
		BALANCING VALVE	I.E. INVERT ELEVATION
		PIPE UNION	KW KILOWATTS
		PRESSURE CONTROL VALVE	LAV LAVATORY
		3-WAY VALVE	MAP MASTER ALARM PANEL
		SOLENOID VALVE	MECH MECHANICAL
		FLOW SWITCH	MH MANHOLE
		PRESSURE GAUGE WITH GAUGE COCK	MS MOP SINK
		THERMOMETER	N.C. NORMALLY CLOSED
		ROOF DRAIN / OVERFLOW DRAIN	NIC NOT IN CONTRACT
		FLOOR DRAIN	N.O. NORMALLY OPEN
		FLOOR SINK	O.F./C.I. OWNER FURNISHED/CONTRACTOR INSTALLED
		T & P RELIEF VALVE	O.F./O.I. OWNER FURNISHED/OWNER INSTALLED
		STRAINER	OFD OVERFLOW DRAIN
	CO	END OF LINE CLEANOUT	PH PHASE
	FCO	FLOOR CLEANOUT	PIV POST INDICATOR VALVE
	WCO	WALL CLEANOUT	PRV PRESSURE REDUCING VALVE
		CAP	RD ROOF DRAIN
		FLEXIBLE CONNECTION	RE: REFER TO
	(E)	NEW CONNECTION TO EXISTING	R.I.C. ROUGH-IN AND CONNECT
	(E)	DEMOLISH TO THIS POINT	RO REVERSE OSMOSIS
	(E)	EXISTING RISER	RPBFP REDUCED PRESSURE BACKFLOW PREVENTER
APPLICABLE CODES AND STANDARDS			
1. BUILDING CODE - 2021 IBC WITH CITY OF KELLER AMENDMENTS			
2. FIRE CODE - 2021 IFC WITH CITY OF KELLER AMENDMENTS			
3. ELECTRICAL CODE - 2020 NEC WITH CITY OF KELLER AMENDMENTS			
4. MECHANICAL CODE - 2021 IMC WITH CITY OF KELLER AMENDMENTS			
5. PLUMBING CODE - 2021 IPC WITH CITY OF KELLER AMENDMENTS			
6. OTHER - 2018 INTERNATIONAL ENERGY CONSERVATION CODE WITH CITY OF KELLER AMENDMENTS			
7. OTHER - FEDERAL DEPARTMENT OF JUSTICE AMERICANS WITH DISABILITIES ACT AND TEXAS ACCESSIBILITY STANDARDS.			
PRE-CONSTRUCTION PLUMBING SYSTEM CHECK			
THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING, OF ANY AND ALL DISCREPANCIES AND DEFICIENCIES FOUND DURING THIS PRE-CONSTRUCTION SERVICE CHECK, INCLUDING CORRECTIVE ACTIONS REQUIRED, AND ASSOCIATED ADDITIONAL COST TO THE PROJECT. THE CONTRACTOR SHALL OBTAIN WRITTEN INSTRUCTIONS FROM THE OWNER, PRIOR TO BEGINNING DEMOLITION OR NEW CONSTRUCTION. REGARDING ALL ACTIONS TO BE TAKEN, ALL DISCREPANCIES AND DEFICIENCIES NOT ADDRESSED IN THE PRE-CONSTRUCTION SERVICE CHECK SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT OR REPLACE AT NO ADDITIONAL COST TO THE OWNER.			
PLUMBING PIPING HANGER SPACING			
MAXIMUM SPACING BETWEEN PIPING HANGERS SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:			
SIZE OF PIPING DISTANCE BETWEEN SUPPORTS:	COPPER	CAST IRON	PVC (DWV)
1/2"	5'	-	-
3/4"	6'	-	4'
1"	7'	-	4'
1-1/4"	8'	-	4'
1-1/2"	9'	5'	4'
2"	10'	5'	4'
SUPPORTS SHALL BE ARRANGED SO AS TO BE NEAR THE WEAKEST POINT OF THE SPAN SUCH AS JOINTS, TURNS AND AT THE BASE OF ALL VERTICAL TO HORIZONTAL OFFSETS AND AT ALL WASTE TRAPS.			
IN NO CASE SHALL ANY PIPING DEPEND ON BLOCKS, BRICKS, STONE, WOOD SLEEPERS OR TIE WIRES FOR ITS FINAL SUPPORT.			

GENERAL NOTES	
1.	FURNISH AND INSTALL ALL ITEMS, INCLUDING EVERY ARTICLE, DEVICE, OR ACCESSORY REASONABLY NECESSARY TO FACILITATE EACH SYSTEMS FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT SPECIFIED. ELEMENTS OF THE WORK SHALL INCLUDE, BUT ARE NOT LIMITED TO, MATERIALS, LABOR, SUPERVISION, SUPPLIES, EQUIPMENT, TRANSPORTATION, HOISTING/RIGGING, STORAGE, UTILITIES, AND ALL REQUIRED PERMITS AND LICENSES.
2.	DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT NECESSARILY REFLECT ALL WORK REQUIRED TO COMPLETE PROJECT. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT AS REQUIRED TO COMPLETE PROJECT WITHIN DESIGN INTENT AT NO ADDITIONAL COST TO OWNER/TENANT OR TENANT. CONTRACTOR SHALL REQUEST ADDITIONAL INFORMATION IN CASES OF DOUBT.
3.	WORK SHALL COMPLY WITH THE MOST RECENT VERSION OF ALL APPLICABLE LAWS, RULES, REGULATIONS AND ORDINANCES OF ALL FEDERAL, STATE AND LOCAL AUTHORITIES. IN THE EVENT OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE LOCAL ENFORCING AUTHORITY, THE LATTER SHALL RULE. ANY MODIFICATION RESULTING THEREFROM SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR ARCHITECT/ENGINEER. THE CONTRACTOR SHALL REPORT ANY SUCH MODIFICATIONS TO THE ARCHITECT/ENGINEER AND SECURE HIS APPROVAL BEFORE PROCEEDING. SHOULD THE REQUIREMENTS OF THE CONTRACT DOCUMENTS EXCEED THE REQUIREMENTS OF THE CODES, THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE PROVIDED THEY ARE NOT IN CONFLICT WITH THOSE CODES.
4.	BEFORE SUBMITTING A BID, IT WILL BE NECESSARY FOR EACH CONTRACTOR WHOSE WORK IS INVOLVED TO VISIT THE SITE AND ASCERTAIN FOR HIMSELF THE CONDITIONS TO BE MET IN INSTALLING THE WORK AND MAKE PROVISIONS FOR THE CONDITIONS IN HIS FINAL PRICE. FAILURE ON THE PART OF THE CONTRACTOR TO COMPLY WITH THIS REQUIREMENT SHALL NOT BE CONSIDERED JUSTIFICATION FOR THE OMISSION OR FAULTY INSTALLATION OF ANY WORK COVERED BY THE CONTRACT DOCUMENTS.
5.	CONSIDERATION SHALL NOT BE GRANTED FOR MISUNDERSTANDING OF THE SCOPE OR AMOUNT OF WORK TO BE PERFORMED. TENDER OF A PROPOSAL CONVEYS FULL CONTRACTOR AGREEMENT OF THE ITEMS AND CONDITIONS SPECIFIED AND/OR INDICATED, SCHEDULED, OR IMPLIED ON THE CONTRACT DOCUMENTS, AND/OR REQUIRED BY THE NATURE OF THIS WORK.
6.	ALL WORK SHALL BE ARRANGED IN A NEAT, WELL ORGANIZED MANNER. ALL SERVICES SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO THE PRIMARY LINES OF THE BUILDING. LOCATE ALL OPERATING AND CONTROL EQUIPMENT PROPERLY TO PROVIDE EASY ACCESS AND ARRANGE ENTIRE WORK WITH ADEQUATE ACCESS FOR OPERATION AND MAINTENANCE, AND FOR PROPER CODE AND/OR MANUFACTURERS CLEARANCES.
7.	ALL EQUIPMENT AND MATERIAL TO BE FURNISHED AND INSTALLED ON THIS PROJECT SHALL BE UL OR ETL LISTED, IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION, AND SUITABLE FOR ITS INTENDED USE ON THIS PROJECT.
8.	THE CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL NEW EQUIPMENT, CONTROLS, AND FIXTURES TO BE PROVIDED. SUBMIT MINIMUM FOUR (4) COPIES FOR APPROVAL.
9.	THE FOLLOWING SUBMITTAL DATA SHALL BE FURNISHED AND SHALL INCLUDE BUT NOT BE LIMITED TO: A. EQUIPMENT AND MATERIALS SHOP DRAWINGS B. COORDINATION DRAWINGS C. RECORD DRAWINGS D. OPERATING AND MAINTENANCE MANUALS E. FIRE STOP MATERIALS AND DETAILS
10.	THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL COORDINATE THE INSTALLATION OF DUCTWORK, PIPING, CONDUIT, CABLE, ETC., WITH LIGHTING FIXTURES, SPECIAL CEILING CONSTRUCTION, AIR DISTRIBUTION EQUIPMENT, AND THE STRUCTURE. PROVIDE ADDITIONAL RISES AND OFFSETS AS REQUIRED. IF, AFTER INSTALLED, NEW DUCTWORK, PIPING, CONDUIT, CABLE, ETC., IS FOUND TO BE IN CONFLICT WITH THE ARCHITECTURE, STRUCTURE OR OTHER TRADE WORK, WHICH IS EITHER EXISTING OR SHOWN ON THE CONTRACT DOCUMENTS, THE DUCTWORK, PIPING, CONDUIT, CABLE, ETC., SHALL BE RELOCATED WITHOUT ADDITIONAL COST TO THE OWNER/TENANT. COORDINATE ALL WORK COMPLETELY WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
11.	MATERIALS AND EQUIPMENT SHALL BE NEW AND IN GOOD CONDITION. THE COMMERCIAL STANDARD ITEMS OF EQUIPMENT AND THE SPECIFIC NAMES INDICATED ARE INTENDED TO IDENTIFY STANDARDS OF QUALITY AND PERFORMANCE NECESSARY FOR THE PROPER FUNCTIONING OF THE WORK. MATERIALS AND EQUIPMENT, WHICH ARE FOUND TO HAVE FACTORY DEFECTS SHALL BE REPLACED OR REPAIRED IN A MANNER ACCEPTABLE TO THE OWNER/TENANT AND ENGINEER AT NO ADDITIONAL COST TO THE OWNER/TENANT.
12.	DAMAGE CAUSED DURING CONSTRUCTION TO EXISTING MATERIALS/EQUIPMENT WILL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO OWNER. RE-SUPPORT ANY REMAINING PIPING OR DEVICES THAT WERE SUPPORTED BY WALLS BEING REMOVED.
13.	THE WARRANTY PERIOD SHALL BE NO LESS THAN ONE (1) FULL YEAR, UNLESS SPECIFIED OTHERWISE AND SHALL INCLUDE AT LEAST ONE (1) FULL HEATING SEASON AND ONE (1) FULL COOLING SEASON. DURING THE WARRANTY PERIOD THE CONTRACTOR SHALL GUARANTEE THE FOLLOWING IN A FORM SATISFACTORY TO THE OWNER/TENANT: A. ALL WORK INSTALLED SHALL BE FREE FROM ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS. B. ALL APPARATUS WILL DEVELOP CAPACITIES AND PERFORMANCE CHARACTERISTICS SPECIFIED. C. THE SYSTEMS SHALL OPERATE WITHOUT MALFUNCTION.
15.	THE START OF THE CONTRACTOR'S WARRANTY PERIOD SHALL COMMENCE ON THE DATE OF "SUBSTANTIAL COMPLETION" AS AGREED TO BY THE OWNER/TENANT.
16.	THIS BUILDING MAY HAVE A STRUCTURAL SYSTEM UTILIZING POST-TENSIONED CABLES. THE CONTRACTOR SHALL DETERMINE THE EXISTING STRUCTURAL SYSTEM PRIOR TO CUTTING, DRILLING, OR CORING. THE CONTRACTOR SHALL X-RAY ALL PENETRATIONS PRIOR TO CUTTING THE FLOOR SLAB.
17.	THIS CONTRACTOR SHALL SECURE ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED FOR HIS WORK, AND SHALL PAY ALL FEES IN CONNECTION WITH SUCH PERMITS, LICENSES AND INSPECTIONS.
18.	IN THE EVENT OF A CONFLICT BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE GREATER AMOUNT OF TOTAL COST SHALL BE PRICED. BRING THE CONFLICT TO THE ATTENTION OF THE ENGINEER AND REQUEST DIRECTION.
19.	PENETRATIONS THROUGH FLOORS OR FIRE-RATED CONSTRUCTION SHALL BE FIRESAFED TO COMPLY WITH ASTM E-814 (UL 1479), AND THE LOCAL AUTHORITY HAVING JURISDICTION.
20.	UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, A COMPLETE SET OF "AS BUILT" DRAWINGS PORTRAYING ACTUAL SITE CONDITIONS OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION WORK. SUBMISSION SHALL CONSIST OF ONE SET OF PAPER COPIES AND ONE SET OF CAD FILES IN AUTOCAD V. 2004 FORMAT WITH THE OWNER'S STANDARD LAYERING SCHEME.
21.	IN THE EVENT THAT MATERIALS, PRODUCTS, AND/OR PROCESSES BEING PROPOSED FOR THIS PROJECT CONTAIN, OR MAY EMIT, ANY VOLATILE ORGANIC COMPOUNDS (VOC), FORMALDEHYDE FORMULATIONS, OR HAZARDOUS OUT-GASSING, AS DETERMINED BY THE MANUFACTURER, A MATERIALS SAFETY DATA SHEET SHALL BE SUBMITTED AS PART OF THE SHOP DRAWING PROCESS FOR REVIEW BY THE ARCHITECT/ENGINEER/ OWNER.
22.	VERIFY LOCATIONS OF EXISTING VALVES LOCATED WITHIN SCOPE OF WORK. MODIFY EXISTING OR PROVIDE NEW MEANS OF ACCESS WHERE REQUIRED BECAUSE OF NEW CONSTRUCTION.
PLUMBING GENERAL NOTES	
1.	REFER TO THE ARCHITECTURAL PLANS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.
2.	REFER TO THE ARCHITECTURAL PLANS AND DETAILS FOR EXACT LOCATIONS OF ALL FLOOR DRAINS.
3.	ALL SANITARY AND VENT PIPING SHALL BE ROUTED AT A SLOPE OF NOT LESS THAN 1/4" PER FOOT, UNLESS OTHERWISE NOTED.
4.	THE PLUMBING CONTRACTOR SHALL COORDINATE EXACT ROUTING OF ALL PIPING WITH THE WORK OF ALL OTHER TRADES. PROVIDE OFFSETS IN PIPING WHERE REQUIRED BY COORDINATION OF TRADES.
5.	INSTALL ALL FLOOR DRAINS AND FLOOR SINKS SUCH THAT GRATING IS FLUSH WITH ADJACENT FLOORING SURFACE. FLOOR SHALL SLOPE TO DRAIN. COORDINATE ALL REQUIREMENTS WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO INSTALLATION.
6.	THE PLUMBING CONTRACTOR SHALL CLEAN, FLUSH, AND DISINFECT ALL COLD WATER AND HOT WATER PIPING AND ALL FIXTURES PRIOR TO COMPLETION OF WORK.
7.	VENTS THROUGH ROOF TO BE LOCATED A MINIMUM OF 30'-0" HORIZONTALLY AWAY FROM OUTSIDE AIR INTAKES.
8.	FLOOR DRAINS NOT RECEIVING REGULAR-USE DRAINAGE ARE TO BE TRAP PRIMED.
9.	PROVIDE BACKFLOW PREVENTION AS REQUIRED BY THE LOCAL CROSS CONNECTION CONTROL DEPT. STANDARDS WHERE NOT PROVIDED OR INADEQUATELY PROVIDED, BY EQUIPMENT MANUFACTURER.
10.	INSTALL PIPING AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED.
11.	VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND FROM ACTUAL MEASUREMENTS AT JOBSITE.
12.	PROVIDE SADDLES AND SHIELDS FOR SUPPORT OF INSULATED PIPING TO PREVENT CRUSHING.
13.	PIPING PENETRATIONS THROUGH PERIMETER BEAMS, FOUNDATION ON GRADE, AND STRUCTURAL FLOORS SHALL BE SLEEVED. COORDINATE SLEEVE LOCATIONS AND SIZES WITH STRUCTURAL PRIOR TO POUR.
14.	PROVIDE DIELECTRIC UNIONS AT DISSIMILAR MATERIALS.
15.	PROVIDE ESCUTCHEONS AT ALL FINISHED WALL AND CEILING PIPING PENETRATIONS.
16.	ALL PIPING SHALL BE IDENTIFIED AS TO TYPE OF USE, SERVICE, AND DIRECTION OF FLOW. LOCATE MARKERS AT EACH VALVE, AT ENTRIES TO WALLS, AND ON 20-FOOT CENTERS ON STRAIGHT RUNS OF PIPE. PROVIDE A FLOW ARROW AT EACH IDENTIFICATION MARKER. PIPE MARKERS SHALL BE SETON "SETMARK" OR EQUAL.
17.	COORDINATE WORK COMPLETELY WITH ALL OTHER TRADES.
18.	INSTALL PIPING FREE OF SAGS AND BENDS. PROVIDE NON-METALLIC COATED HANGERS WHERE IN DIRECT CONTACT WITH COPPER PIPING.

PLUMBING GENERAL NOTES (CONT')	
19.	PROVIDE ENGINEERED WATER HAMMER ARRESTERS SIZED AND PLACED IN ACCORDANCE WITH STANDARD PDI-WH 201. AIR CHAMBERS SHALL NOT BE ALLOWED.
20.	PROVIDE FLEXIBLE EXPANSION FITTINGS SUITABLE FOR SANITARY (DWV) AND RAINWATER PIPING WHERE PIPING ENTERS EXPANSIVE SOILS TO ALLOW FOR 4-IN OF DIFFERENTIAL MOVEMENT.
21.	ALL FLOOR PENETRATIONS MUST BE SEALED WITH FIRE CAULK.
22.	MAKE ALL NECESSARY EXCAVATIONS, CUTTING OF PAVING, CONCRETE, ETC., REMOVAL OF UNUSABLE SPOIL MATERIAL, DO ALL BACKFILLING WITH STABILIZED FILL, AND DO TEMPORARY PATCH PAVING REPAIRS NECESSARY FOR PROPER EXECUTION OF THE WORK. BACKFILL SHALL BE MECHANICALLY COMPACTED TO A DENSITY OF 98% OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST.
23.	PROVIDE MINIMUM 1" AIR GAP AT DRAIN DISCHARGE FOR ALL INDIRECT WASTE PIPING.
24.	DISCHARGE PIPING FROM A DISHWASHER SHALL BE LOOPED UP AND SECURELY FASTENED TO THE UNDERSIDE OF THE COUNTER OR AN APPROVED DISHWASHER AIR-GAP FITTING IS REQUIRED.
25.	COMPRESSION TANKS SUPPLIED AT EACH WATER HEATER SHALL BE SECURED TO A WALL WITH (2) 1" X 1/4 GA. GALVANIZED STRAPS. PROVIDE LAG BOLTS AND BLOCKING AS REQUIRED.
26.	AN ATMOSPHERIC VACUUM BREAKER OR OTHER APPROVED BACKFLOW PREVENTION DEVICE MUST BE INSTALLED ON ALL THREADED HOSE BIBB, WALL HYDRANT OR FAUCET CONNECTIONS LOCATED INSIDE OR OUTSIDE THE BUILDING.
PLUMBING SPECIFICATIONS	
DOMESTIC WATER PIPING	
1.	ALL BRANCH WATER PIPING INSIDE THE BUILDING SHALL BE TYPE "L" COPPER TUBING (ASTM B-88) WITH WROUGHT COPPER FITTINGS (ANSI B16.22). CLEAN AND DEBURR THE INSIDE OF ALL FITTINGS CAREFULLY BEFORE JOINING WITH 95% TINANTIMONY SOLDER. NO ACIDS SHALL BE USED TO CLEAN EITHER PIPE OR FITTINGS OR AS A FLUX IN SWEATING JOINTS. THE USE OF DRILLED-T CONNECTIONS IS NOT PERMITTED.
2.	EACH FIXTURE, DEVICE OR CONNECTION TO EQUIPMENT SHALL HAVE A STOP VALVE TO ISOLATE THAT FIXTURE WITHOUT SHUTTING DOWN ANY OTHER PORTION OF THE SYSTEM.
3.	ALL COPPER WATER PIPING SHALL BE COMPLETELY ISOLATED FROM METAL HANGERS, METAL STUDS OR ANY OTHER ELECTRICALLY CONDUCTIVE BUILDING COMPONENTS. PROVIDE DIELECTRIC UNION AT ALL CONNECTIONS BETWEEN COPPER AND GALVANIZED PIPE.
4.	TRAP PRIMER PIPING SHALL BE ASTM B88, TYPE K COPPER, SEAMLESS TUBING, BRAZED JOINTS 1/2".
THERMAL INSULATION FOR DOMESTIC WATER PIPING	
1.	ALL DOMESTIC WATER PIPING SHALL BE INSULATED WITH FIBERGLASS INSULATION WITH AN ALL-SERVICE JACKET OR "AP" ARMAFLEX FLEXIBLE ELASTOMERIC PIPE INSULATION WITH AN ALL-SERVICE JACKET. ELBOWS AND FITTINGS SHALL BE INSULATED AND COVERED WITH ZESTON 2000 25/50 FIRE/SMOKE RATED PVC JACKETS.
2.	DOMESTIC COLD WATER PIPING: ALL SIZES - 1-INCH THICKNESS *IF EXPOSED TO OUTDOOR CONDITIONS, INCREASE BY 1/2"
3.	DOMESTIC HOT WATER PIPING: 1-1/4" AND SMALLER - 1-INCH THICKNESS 1-1/2" AND LARGER - 2-INCH THICKNESS *IF EXPOSED TO OUTDOOR CONDITIONS, INCREASE BY 1/2"
4.	DOMESTIC HOT WATER RECIRCULATION PIPING: 1-1/4" AND SMALLER - 1-INCH THICKNESS 1-1/2" AND LARGER - 2-INCH THICKNESS *IF EXPOSED TO OUTDOOR CONDITIONS, INCREASE BY 1/2"
5.	CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1/2-INCH THICKNESS FIBERGLASS INSULATION WITH ALL SERVICE JACKET (ASJ) VAPOR BARRIER.
6.	ALL DRAIN HORIZONTAL STORM DRAINAGE PIPING AND PIPING RECEIVING CHILLED DRAINAGE OR SHALL BE INSULATED WITH 1" THICKNESS FIBERGLASS INSULATION IF ABOVE GRADE.
7.	AT ALL CLEVIS HANGERS, INSTALL INSULATION OVER HANGER AND PROVIDE A VAPOR BARRIER COVER.
BALL VALVES	
1.	ALL VALVES SHALL BE BALL VALVES, NO GATE VALVES SHALL BE USED.
2.	BALL VALVES SHALL BE WATTS MODEL B-6000 BRONZE, SHALL HAVE BOTTOM LOADED PRESSURE RETAINING BLOW-OUT PROOF STEMS, ADJUSTABLE PACKING NUT, GLASS REINFORCED DURAFILL OR VIRGIN PTFE SEATS AND BALL. VALVES SHALL BE PRESSURE RATED AT 600 PSI WOG 1/4" UP TO 2" AND 400 PSI WOG 2-1/2" AND 3". VALVES SHALL BE MANUFACTURED AND ASSEMBLED IN THE U.S.A.
SANITARY SOIL WASTE AND VENT PIPING	
1.	BELOW GROUND INSIDE BUILDING VERTICAL AND HORIZONTAL WASTE AND VENT PIPING AND FITTINGS SHALL BE ASTM D2865, SCHEDULE 40 PVC JOINED WITH SOLVENT WELDS.
2.	ABOVE GROUND INSIDE BUILDING VERTICAL AND HORIZONTAL WASTE AND VENT STACKS, FIXTURE AND VENT MANIFOLDS SHALL BE "NO-HUB" CAST IRON SOIL PIPE AND FITTINGS (CISPI001) ASSEMBLED WITH 304 STAINLESS STEEL. NO-HUB COUPLINGS ASSEMBLIES, WITH NEOPRENE GASKET MEETING ASTM C-564.
3.	PROVIDE AND INSTALL ALL CLEANOUTS INDICATED AND AS REQUIRED BY LOCAL CODES.
4.	THE WASTE AND VENT SYSTEM SHALL BE TESTED AS REQUIRED BY THE PLUMBING CODES HAVING JURISDICTION.
5.	INDIRECT DRAINS SHALL BE TYPE "L" COPPER TUBING (ASTM B-88) WITH WROUGHT COPPER FITTINGS (ANSI B16.22). CLEAN AND DEBURR THE INSIDE OF ALL FITTINGS CAREFULLY BEFORE JOINING WITH 95% TINANTIMONY SOLDER. NO ACIDS SHALL BE USED TO CLEAN EITHER PIPE OR FITTINGS OR AS A FLUX IN SWEATING JOINTS.
DRAWING INDEX	
SHEET NUMBER	SHEET NAME
P0.0	PLUMBING COVER SHEET
P2.0	PLUMBING UNDERFLOOR PLAN
P2.1	PLUMBING PLAN
P2.2	PLUMBING ROOF PLAN
P3.1	PLUMBING SCHEDULES
P4.1	PLUMBING DETAILS
P5.1	PLUMBING RISER DIAGRAMS - WATER
P5.2	PLUMBING RISER DIAGRAMS - SANITARY
P5.3	PLUMBING RISER DIAGRAM - NATURAL GAS



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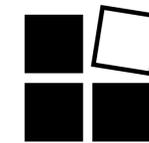
SHEET TITLE

PROJECT NO: WTX07J
DATE: 05.31.24
REVISION DATES:

PLUMBING COVER SHEET

SHEET NUMBER

P0.0



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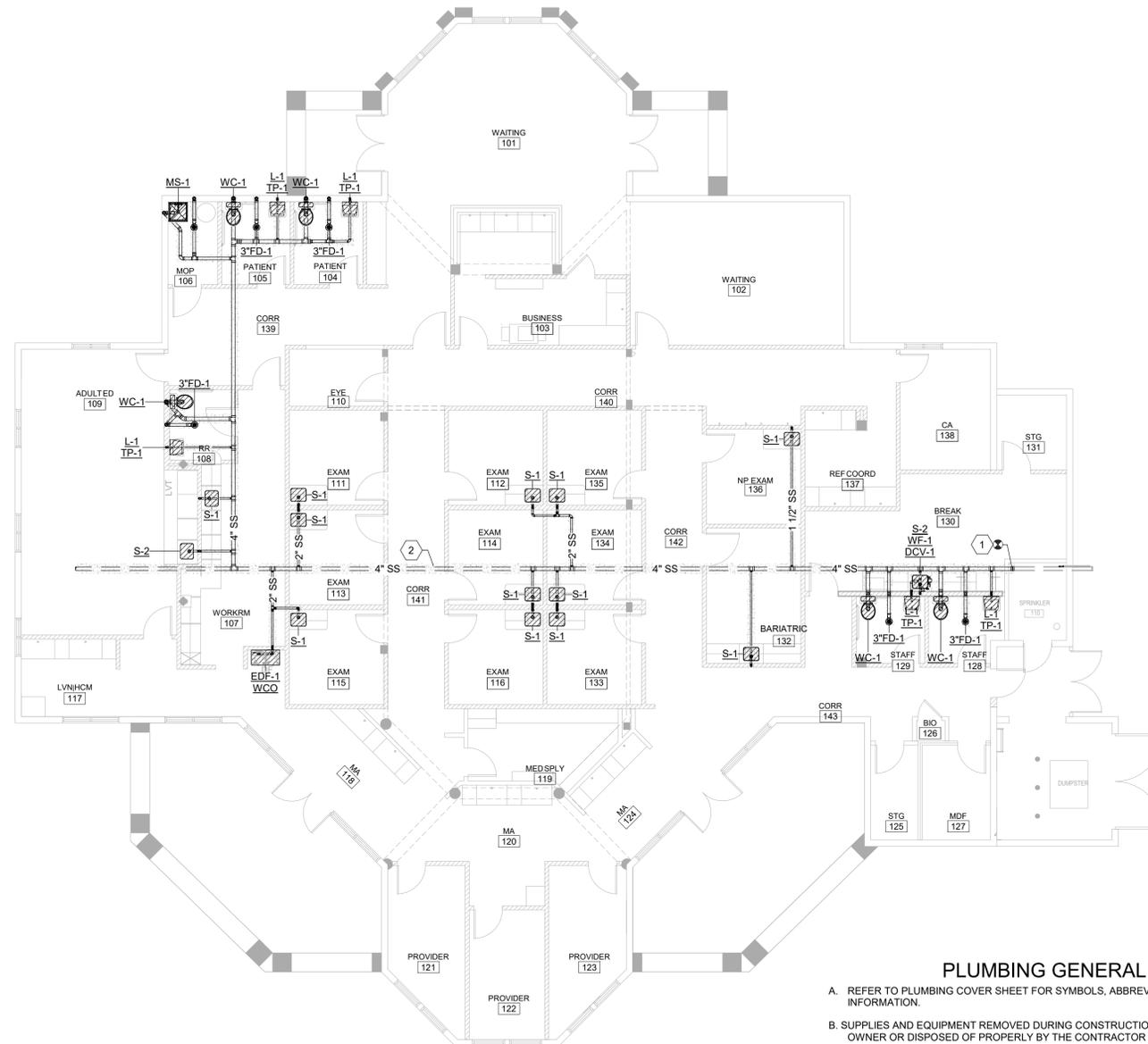
SHEET TITLE

PROJECT NO: WTX07J
DATE: 05.31.24
REVISION DATES:

PLUMBING UNDERFLOOR PLAN

SHEET NUMBER

P2.0



1 PLUMBING UNDERFLOOR PLAN

1/8" = 1'-0"

NOTE:
CONTRACTOR TO FIELD VERIFY EXISTING SANITARY SEWER TIE-IN FLOW LINE ELEVATION. CONTRACTOR MUST VERIFY IF GRAVITY FLOW SANITARY SEWER LINES AS SHOWN WILL PROPERLY DRAIN TO THE TIE-IN POINT SHOWN ON PLUMBING PLAN. IF ANY ISSUES ARE ENCOUNTERED, CONTACT THE ARCHITECT OR ENGINEER IMMEDIATELY.

ALL PLUMBING PIPING ROUTED ABOVE GRADE THAT WILL BE DEEMED ABANDONED AFTER THE SCOPE OF THIS PROJECT IS COMPLETED AS INDICATED SHALL BE DEMOLISHED IN ITS ENTIRETY. ALL ABANDONED PLUMBING PIPING PENETRATING THE FLOOR SHALL BE DEMOLISHED, CAPPED BELOW FLOOR AND THE FLOOR PATCHED TO MATCH EXISTING MATERIALS AND METHODS. EXISTING PIPING SHOWN FOR COORDINATION ONLY. CONTRACTOR TO FIELD VERIFY ALL EXISTING PIPING. IF ANY ISSUES ARE ENCOUNTERED, CONTACT THE ARCHITECT OR ENGINEER IMMEDIATELY.

PLUMBING GENERAL NOTES

- A. REFER TO PLUMBING COVER SHEET FOR SYMBOLS, ABBREVIATIONS, AND ADDITIONAL INFORMATION.
- B. SUPPLIES AND EQUIPMENT REMOVED DURING CONSTRUCTION SHALL BE RETURNED TO THE OWNER OR DISPOSED OF PROPERLY BY THE CONTRACTOR AT THE OPTION OF THE OWNER.
- C. REFER TO RISER AND EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL SIZES AND ROUTING NOT INDICATED ON PLANS

PLUMBING KEYED NOTES

- 1. NEW SANITARY PIPING SHALL BE CONNECTED TO EXISTING SANITARY PIPING BELOW SLAB. SAW-CUT FLOOR AND PAVEMENT AS REQUIRED. FIELD VERIFY LOCATION OF EXISTING UNDERFLOOR SANITARY PIPING PRIOR TO SAW-CUTTING. PATCH FLOOR TO MATCH EXISTING MATERIALS AND METHODS.
- 2. SHADED AREAS INDICATE PORTIONS OF EXISTING INTERIOR SLAB THAT WILL REQUIRE SAW-CUTTING FOR THE PROPOSED ADDITIONS. (TYP.)

TRENCHING AND BACKFILLING

ALL UNDERGROUND PIPES SHALL BE LAID OPEN IN TRENCH. ALL FIELD MEASUREMENTS, LAYOUTS, GRADE ESTABLISHMENTS, ETC., SHALL BE DONE BY REGISTERED PUBLIC SURVEYOR IN THE EMPLOY OF THE CONTRACTOR. THE CONTRACTOR'S SURVEYOR SHALL BE ON-THE-JOB DURING ALL UNDERGROUND WORK. THE ARCHITECT WILL PROVIDE A "BENCH MARK" REFERENCE FOR USE BY THE CONTRACTOR.

PIPES SHALL BE LAID AND MAINTAINED AT REQUIRED LINES AND GRADES DURING THE COURSE OF THE WORK. ALL JOINTS SHALL BE ALIGNED AND COMPLETE.

THE TRENCH SHALL BE EXCAVATED TO ALIGNMENT AND DEPTH AS REQUIRED. TRENCH SHALL BE PROPERLY BRACED AND DEWATERED. THE TRENCHES SHALL BE KEPT FREE OF WATER AT ALL TIMES DURING INSTALLATION, TESTING OF PIPE, AND BACK FILLING. THE CONTRACTOR SHALL PROVIDE PROPER FACILITIES FOR DISCHARGING WATER INTO NATURAL DRAINAGE CHANNELS. NO WATER SHALL BE DISCHARGED ONTO A STREET WITHOUT APPROVAL BY THE ARCHITECT.

ALL EXTERIOR UNDERGROUND PIPING SHALL BE INSTALLED WITH A MINIMUM OF 18" OF EARTH OR EQUIVALENT COVER, EXCEPT WHERE SPECIFICALLY SHOWN OTHERWISE OR REQUIRED BY THE ARCHITECT/ENGINEER.

THE TRENCH SHALL BE AT LEAST 18" WIDER THAN THE DIAMETER OF THE LARGEST BELL ON THE PIPE. IF THE PIPE HAS NO BELLS, THE TRENCH SHALL BE AT LEAST 18" WIDER THAN THE MAXIMUM DIAMETER OF THE PIPE. PIPE SHALL BE LAID IN THE CENTER OF THE TRENCH. THE TRENCH SHALL BE EXCAVATED TO A DEPTH SUFFICIENT TO PROVIDE FOR PIPE CUSHIONS AS SPECIFIED HEREIN.

SHEET PILE AND BRACE EXCAVATIONS WHEREVER NECESSARY TO PREVENT CAVE-IN. TRENCH WIDTH MAY BE INCREASED AS REQUIRED AND PILING LEFT IN PLACE UNTIL SUFFICIENT COMPACTED BACKFILL IS IN PLACE. THE CONTRACTOR SHALL PROPERLY SHEET AND BRACE ALL OPEN TRENCHES TO RENDER THEM SECURE AND SHALL REMOVE ALL SUCH SHEETING AND BRACING BEFORE COMPLETING THE BACKFILL. THE QUANTITY OF THE EXCAVATION REQUIRED TO INSTALL SHEETING AND THE INSTALLATION AND REMOVAL OF SHEETINGS AND BRACINGS WILL NOT BE REGARDED AS EXTRA WORK AND ALL COSTS INCURRED FOR THIS EXCAVATION AND THE INSTALLATION OF SHEETING SHALL BE INCLUDED IN THE CONTRACT PRICE.

TRENCHING MAY BE DONE WITH TRENCH DIGGING MACHINERY UNLESS HAND DIGGING IS REQUIRED TO AVOID DAMAGE TO EXISTING STRUCTURES OR APPARATUS BOTH ABOVE OR BELOW GRADE.

UPON COMPLETION OF EXCAVATION AND PRIOR TO THE LAYING OF THE PIPE, THE TRENCH BOTTOM SHALL BE BROUGHT UP TO THE REQUIRED ELEVATION WITH A PIPE CUSHION, EXCEPT WHERE THE CUSHION HAS BEEN ELIMINATED BY THE ARCHITECT. PIPE CUSHIONS SHALL BE SELECTED MATERIAL DEPOSITED IN THE TRENCH, AND SHALL BE COMPACTED, LEVELED OFF, AND SHAPED TO OBTAIN A SMOOTH COMPACTED BED ALONG THE LAYING LENGTH OF THE PIPE. PIPE CUSHION MATERIAL SHALL BE AS FOLLOWS:

1. SANITARY AND DOMESTIC WATER: MATERIAL FOR PIPE CUSHION SHALL COMPLY WITH LOCAL CODES AND SHALL BE PLACED IN ACCORDANCE WITH THE EARTHWORK SECTION OF THE SPECIFICATIONS. IN ABSENCE OF LOCAL CODE REQUIREMENTS THE CUSHION SHALL BE SILICA SAND WITH NO MORE THAN 20% PASSING A #200 SIEVE AND WITH NO CLAY INCLUSION OR SELECT BACKFILL MATERIAL APPROVED BY THE EARTHWORK SECTION OF THE SPECIFICATIONS. ANY SELECT FILL USED SHALL PASS A ONE INCH SCREEN.

PIPES SHALL NOT BE LAID IN WATER OR WHEN TRENCH CONDITION IS UNSUITABLE.

AS SECTIONS OF PIPE ARE INSTALLED, THEY SHALL BE TEMPORARILY SEALED UNTIL REMAINING SECTIONS OF THE PIPING HAVE BEEN INSTALLED TO COMPLETE THE SYSTEM.

CAST IRON PIPES SUBJECT TO POTENTIAL HEADS OF 15 FEET OF WATER OR MORE SHALL HAVE CONCRETE ANCHORS AT EACH CHANGE IN DIRECTION AND/OR AS DIRECTED. ANY CHANGE IN DIRECTION EXCEEDING 15 DEGREES SHALL BE ANCHORED. CONCRETE ANCHORS SHALL REST AGAINST SOLID (VIRGIN) GROUND WITH THE REQUIRED AREA OF BEARING ON PIPE AND GROUND TO PROVIDE SUITABLE ANCHORING.

TRENCHES SHALL BE BACKFILLED ONLY AFTER PIPING HAS BEEN INSPECTED, TESTED, AND APPROVED BY THE ARCHITECT/ENGINEER. ALL BACKFILL MATERIAL SHALL BE PLACED IN THE TRENCH EITHER BY HAND OR BY APPROVED MECHANICAL METHODS. THE COMPACTION OF BACKFILL MATERIAL SHALL BE ACCOMPANIED BY TAMPING WITH HAND TOOLS OR APPROVED PNEUMATIC TAMPERS, BY USING VIBRATORY COMPACTORS, OR BY ANY COMBINATION OF THESE. THE METHOD OF COMPACTION SHALL BE APPROVED AND ALL COMPACTION SHALL BE DONE IN ACCORDANCE WITH REQUIREMENTS OF THE EARTHWORK SECTION OF THE SPECIFICATIONS. BACKFILL COMPLETELY AROUND PIPE, INCLUDING 18" ABOVE THE PIPE, WITH SUITABLE SILICA SAND, TAMPED IN 6" LAYERS UNDER, AROUND, AND OVER PIPE. THE REMAINDER OF THE BACKFILL FOR ALL PIPES SHALL BE SELECT BACKFILL MATERIAL TAMPED AT INTERVALS OF NO MORE THAN 12" DEPTHS, TO ATTAIN PROCTOR COMPACTION DENSITY REQUIRED. ALL MATERIALS TO BE USED AS SELECTED MATERIAL BACKFILL SHALL BE APPROVED BY THE ARCHITECT. IF IN THE OPINION OF THE ARCHITECT OR GEOTECHNICAL CONSULTANT, THE EXCAVATED MATERIAL DOES NOT MEET THE REQUIREMENTS OF SELECTED MATERIAL, THE CONTRACTOR SHALL BE REQUIRED TO SCREEN THE MATERIAL PRIOR TO ITS USE AS SELECTED MATERIAL BACKFILL. MATERIAL USED IN THE UPPER PORTION OF THE BACKFILL OR SUBGRADE SHALL NOT CONTAIN STONE, ROCK, OR OTHER MATERIAL LARGER THAN SIX INCHES IN ITS LONGEST DIMENSION. NO WOOD, VEGETABLE MATTER, OR OTHER MATERIAL WHICH IN THE OPINION OF THE ARCHITECT OR GEOTECHNICAL CONSULTANT, IS UNSUITABLE SHALL BE INCLUDED IN THE BACKFILL. BACKFILL SHALL BE BROUGHT UP TO FINISH GRADE IDENTIFIED ON THE ARCHITECTURAL DRAWINGS, INCLUDE ADDITIONAL BACKFILL REQUIRED TO OFFSET SETTLEMENT DURING CONSOLIDATION.

WHEN REMOVAL OF UNSUITABLE EXCAVATED MATERIAL CREATES A SHORTAGE OF BACKFILL MATERIAL, THE CONTRACTOR SHALL, AT NO COST TO THE OWNER, FURNISH MATERIAL AS SPECIFIED IN THIS SECTION IN THE AMOUNT REQUIRED TO COMPLETE THE BACKFILL.

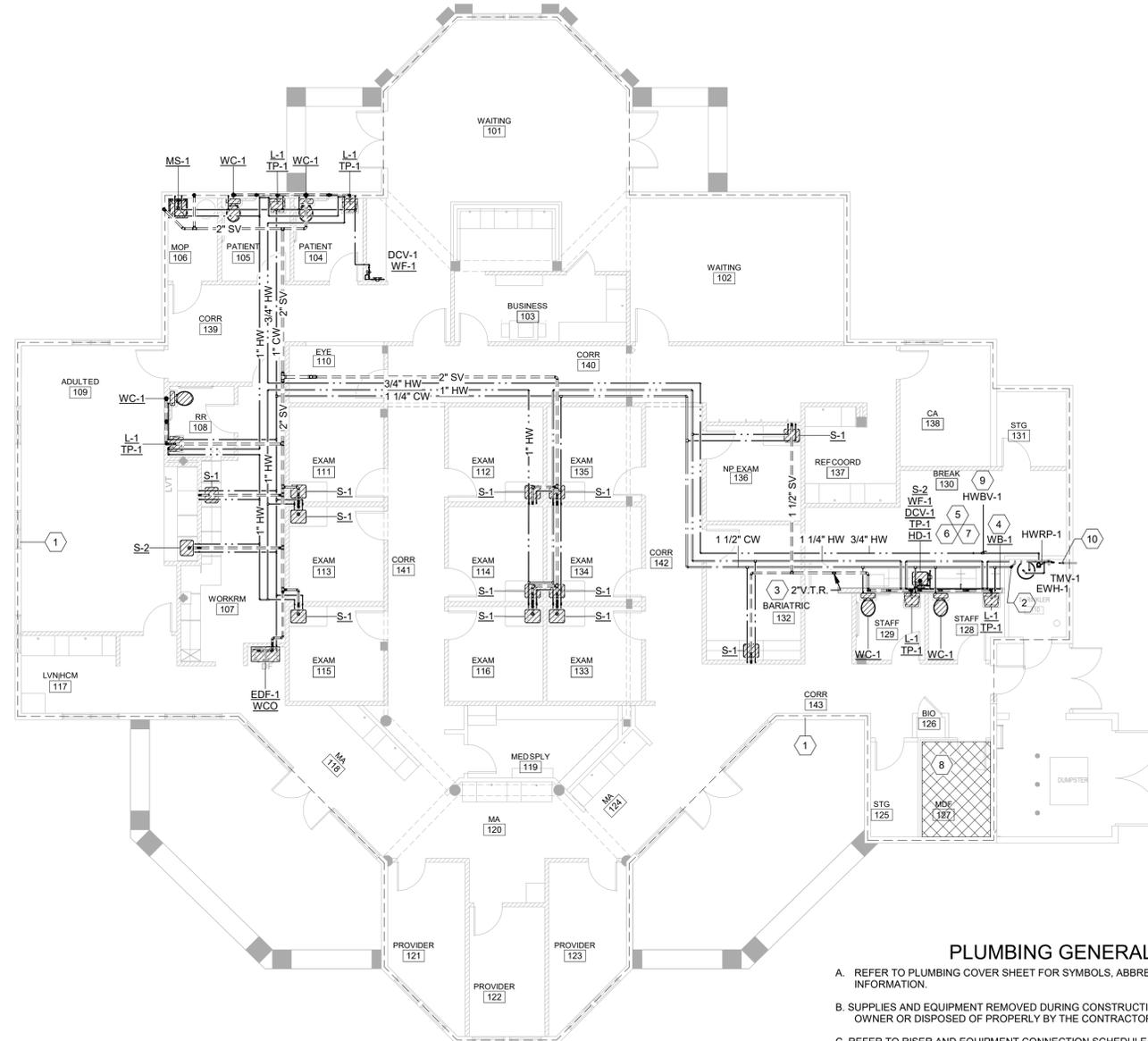
EXISTING STREET, DRIVEWAYS, AND SIDEWALKS DAMAGED DURING THE EXCAVATION WORK SHALL BE RESTORED TO ACCEPTABLE CONDITION, SUBJECT TO APPROVAL BY THE ARCHITECT.

PROVIDE DRIVEWAY AND SIDEWALK EXCAVATIONS WITH APPROVED BARRICADES, WARNING LIGHTS, AND COVERPLATES AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.

SUBMIT COMPLETE INSTALLATION AND TEST PROCEDURES OF THE EXCAVATION AND BACKFILL WORK FOR APPROVAL BY ARCHITECT PRIOR TO COMMENCING ANY WORK.

FIRE SPRINKLER SYSTEM NOTES

1. THE SPRINKLER CONTRACTOR SHALL RELOCATE EXISTING SPRINKLER HEADS AND PIPING, AND SHALL PROVIDE NEW SPRINKLER HEADS AND PIPING AS REQUIRED TO PROVIDE FULL COVERAGE OF THIS LEASE SPACE IN STRICT ACCORDANCE WITH NFPA-13, AND ALL CITY, STATE, AND NATIONAL CODES AND STANDARDS. NEW SPRINKLER HEADS SHALL MATCH EXISTING BUILDING STANDARD HEADS. COVERAGE AND DENSITY SHALL MATCH EXISTING BUILDING.
2. THE SPRINKLER CONTRACTOR SHALL REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN TO DETERMINE EXACT LOCATIONS OF ALL SPRINKLER HEADS. RELOCATE EXISTING SPRINKLER HEADS AND PIPING WHERE DUCTWORK AND/OR LIGHTING FIXTURE CONFLICTS OCCUR.
3. SPRINKLERS LOCATED IN ACOUSTIC TILE CEILINGS SHALL BE ON CENTER.
4. SPRINKLER BRANCH PIPING SHALL NOT BE LOCATED DIRECTLY BELOW TERMINAL UNITS OR OTHER MECHANICAL EQUIPMENT. RELOCATE BRANCH PIPING AND SPRINKLER HEADS AS REQUIRED TO PROVIDE CLEAR SERVICE BELOW.
5. COORDINATE SPRINKLER LOCATIONS WITH ARCHITECT IN HIGH-FINISH AREAS AND IN HARD CEILINGS.
6. INSTALL EXPOSED PIPING IN FINISHED AREAS WITH NO CEILINGS AS HIGH AND INCONSPICUOUS AS POSSIBLE. COORDINATE PAINTING REQUIREMENTS WITH ARCHITECT.
7. COORDINATE SPRINKLER AND PIPING DEMOLITION AND RELOCATION REQUIRED TO OCCUR DURING DEMOLITION PACKAGE DUE TO ARCHITECTURAL CEILING, DUCTWORK AND EQUIPMENT MODIFICATIONS, ETC.
8. A LICENSED CONTRACTOR SHALL FURNISH, ACCORDING TO THE CONDITIONS OF THE CONSTRUCTION CONTRACT, SHOP DRAWINGS INCLUDING THE COMPLETE LAYOUT OF FIRE PROTECTION SYSTEMS TO THE AUTHORITIES HAVING JURISDICTION, LOCAL FIRE DEPARTMENT, THE OWNER'S INSURANCE CARRIER, AND LANDLORD FOR APPROVAL. SHOP DRAWINGS MUST BE APPROVED BY THE AUSTIN FIRE DEPARTMENT PRIOR TO BEGINNING WORK ON ANY PART OF THE FIRE PROTECTION SYSTEMS.
10. A CONTRACTOR PROPERLY LICENSED BY THE STATE FIRE MARSHAL MUST DO THE FIRE PROTECTION SCOPE OF WORK.
11. PROTECTION CRITERIA FOR SPRINKLERS SHALL BE BASED ON THE FOLLOWING AREA/DENSITY REQUIREMENTS:
 - A. EXAM ROOMS AND PUBLIC AREAS - LIGHT HAZARD (DROP CEILINGS/HARD CEILINGS)
 - a) 0.10 GPM OVER MOST REMOTE 1,500 SQUARE FEET WITH THE PROTECTION AREA PER SPRINKLER NOT EXCEEDING 225 SQUARE FEET.
 - b) CEILING SPRINKLERS SHALL BE ORDINARY TEMPERATURE RATED, BASE BUILDING TYPE. COORDINATE FINISH WITH ARCHITECT.
 - B. MECHANICAL AND EQUIPMENT ROOMS - ORDINARY HAZARD
 - a) 0.15 GPM OVER MOST REMOTE 2,000 SQUARE FEET WITH THE PROTECTION AREA PER SPRINKLER NOT EXCEEDING 130 SQUARE FEET.
 - b) CEILING SPRINKLERS SHALL BE INTERMEDIATE TEMPERATURE RATED, PENDANT TYPE.



PLUMBING GENERAL NOTES

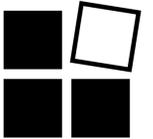
- A. REFER TO PLUMBING COVER SHEET FOR SYMBOLS, ABBREVIATIONS, AND ADDITIONAL INFORMATION.
- B. SUPPLIES AND EQUIPMENT REMOVED DURING CONSTRUCTION SHALL BE RETURNED TO THE OWNER OR DISPOSED OF PROPERLY BY THE CONTRACTOR AT THE OPTION OF THE OWNER.
- C. REFER TO RISER AND EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL SIZES AND ROUTING NOT INDICATED ON PLANS

PLUMBING KEYED NOTES

1. LIMIT OF FIRE SPRINKLER SCOPE (REFER TO "FIRE SPRINKLER SYSTEM NOTES" ON PLUMBING COVER SHEET).
2. CONNECT NEW COLD WATER PIPING TO EXISTING COLD WATER PIPING. FIELD VERIFY EXACT LOCATION. PROVIDE ISOLATION VALVE AT POINT OF CONNECTION.
3. NEW VENT ROOF THROUGH ROOF. ENSURE VENT IS MINIMUM 10-FT FROM ANY INTAKE. FIELD VERIFY EXACT LOCATION.
4. 1/2" CW WITH ANGLE STOP IN RECESSED WALL BOX. MAKE FINAL CONNECTION TO REFRIGERATOR/ICE MAKER. COORDINATE EXACT MOUNTING LOCATION OF WALL BOX WITH ARCHITECT AND MILLWORK.
5. INSTALL ONE DOUBLE CHECK VALVE ON WALL WITHIN MILLWORK (BELOW COUNTER) IN AN ACCESSIBLE LOCATION IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS. COORDINATE EXACT MOUNTING REQUIREMENTS WITH ARCHITECT.
6. BACKFLOW PREVENTION ASSEMBLY SHALL BE ACCURATELY TESTED ACCORDING TO INDUSTRY-ACCEPTED STANDARDS BY LICENSED AND REGISTERED BACKFLOW PREVENTION ASSEMBLY TESTER. SUBMIT COMPLETED CITY OF AUSTIN TEST FORM FOR EACH ASSEMBLY UPON COMPLETION OF INSTALLATION AND TESTING.
7. PROVIDE ISOLATION VALVE ON COLD WATER SERVICE DOWNSTREAM OF BACKFLOW DEVICE BELOW COUNTERTOP FOR ONE (1) COUNTERTOP COFFEE MAKER CONNECTION. COORDINATE EXACT LOCATION OF EQUIPMENT WITH ARCHITECT. LOCATION OF SHUT-OFF VALVE SHALL ALLOW ACCESS WITHIN MILLWORK. PROVIDE NEW PIPING AND FITTINGS AS REQUIRED TO MAKE FINAL CONNECTION TO EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.
8. NO NEW PIPING EXCEPT SPRINKLER PIPING SHALL BE INSTALL ABOVE THIS AREA. REFER TO "FIRE SPRINKLER SYSTEM NOTES" ON PLUMBING COVER SHEET FOR NOTES ON SPRINKLER SYSTEM REQUIREMENTS IN THIS ROOM.
9. PROVIDE BALANCING VALVE, WITH MEMORY STOP, FOR BALANCE OF HOT WATER RECIRCULATION LINE. INSTALL ABOVE THIS AREA. VERIFY EXACT LOCATION WITH ARCHITECT. PROVIDE ACCESS PANEL AS REQUIRED.
10. CONNECT NEW 1-1/4" GAS PIPING TO EXISTING GAS PIPING AT THIS APPROXIMATE LOCATION. ROUTE GAS PIPING VERTICALLY THROUGH ROOF. REFER TO P2.2 AND P5.3 FOR ADDITIONAL INFORMATION.

1 PLUMBING PLAN

1/8" = 1'-0"



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SEALS



05/31/2024



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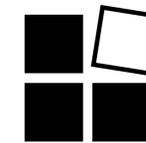
SHEET TITLE

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PLUMBING PLAN

SHEET NUMBER

P2.1



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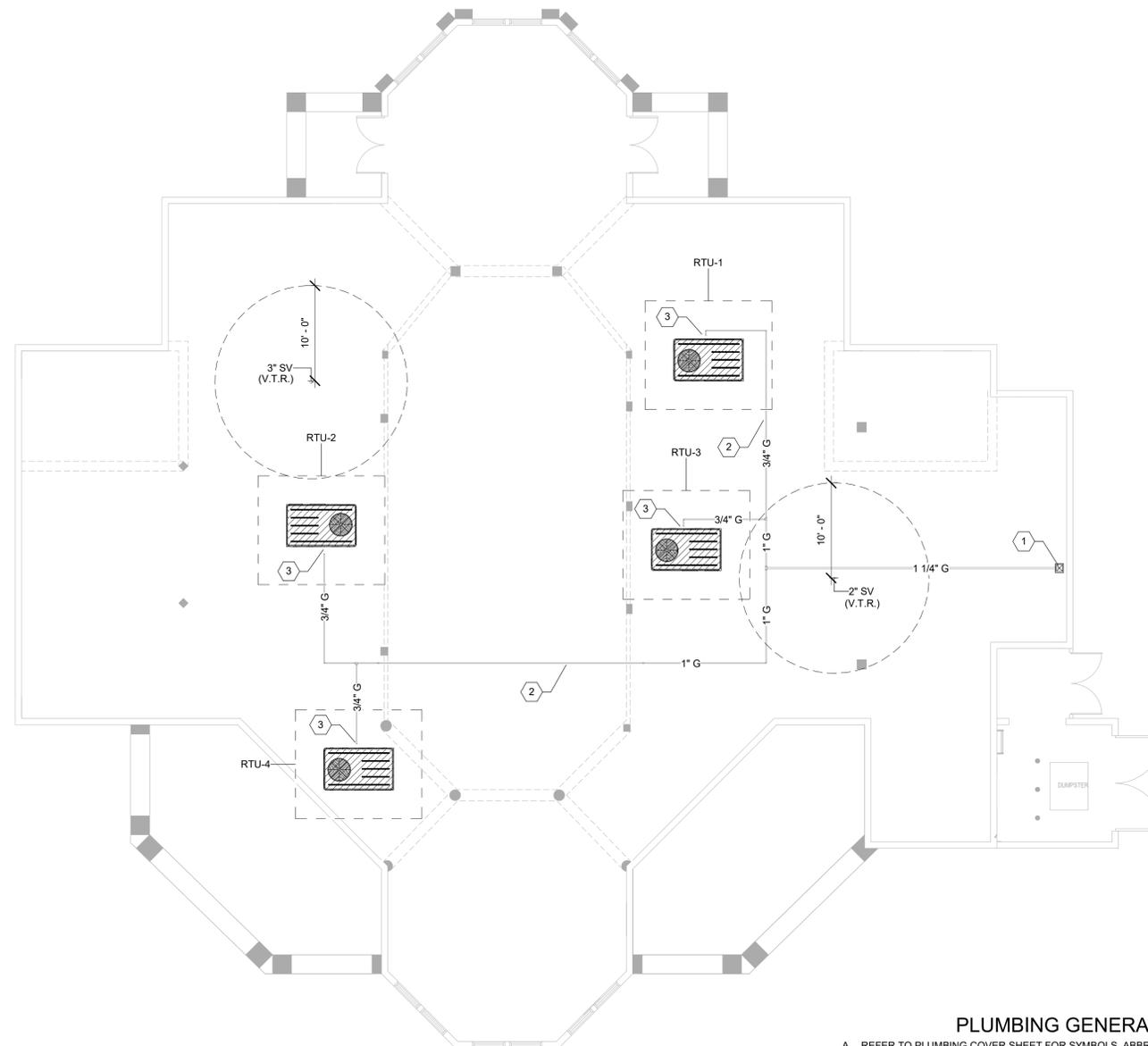
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PLUMBING ROOF PLAN

SHEET NUMBER

P2.2



1 PLUMBING ROOF ROOF

1/8" = 1'-0"

THE EXISTING ROOF SYSTEM INSTALLED IN THIS BUILDING HAS A WARRANTY. THE CONTRACTOR SHALL COMPLY WITH ALL WARRANTY GUIDELINES WHILE INSTALLING EQUIPMENT ON THE ROOF. THIS INCLUDES THE INSTALLATION OF ROOF PENETRATIONS, EQUIPMENT CURBS AND REFRIGERANT PIPE SUPPORTS.

CONTACT BUILDING MANAGER FOR ROOF WARRANTY INFORMATION AND FOR EXACT SPECIFICATIONS FOR ANY WORK TO BE PERFORMED ON THE ROOF OF THIS BUILDING. ALL ROOF PENETRATIONS MUST BE COORDINATED WITH BUILDING MANAGEMENT AND ROOF CONTRACTOR MUST BE APPROVED BY MANAGEMENT PRIOR TO ANY ROOF WORK.

THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY TO ENSURE THAT THE ROOF WARRANTY IS NOT VOIDED DUE TO CONSTRUCTION ASSOCIATED WITH THIS PROJECT.

PLUMBING GENERAL NOTES

- A. REFER TO PLUMBING COVER SHEET FOR SYMBOLS, ABBREVIATIONS, AND ADDITIONAL INFORMATION.
- B. VENTS THROUGH ROOF TO BE LOCATED A MINIMUM OF 10'-0" HORIZONTALLY AWAY FROM OUTSIDE AIR INTAKES.
- C. REFER TO RISER AND EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL SIZES AND ROUTING NOT INDICATED ON PLANS.
- D. PAINT ALL EXTERIOR GAS PIPING WITH ONE COAT OF RUST-INHIBITIVE PRIMER AND TWO COATS OF EPOXY PAINT. COORDINATE COLOR WITH ARCHITECT.
- E. LABEL ALL MEDIUM PRESSURE PIPING WITH "ELEVATED PRESSURE" MARKING.
- F. TEST MEDIUM PRESSURE SYSTEM PIPING TO A MINIMUM OF 15-PSI

PLUMBING KEYED NOTES

- 1. GAS PIPING DOWN TO NEW METER. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- 2. GAS PIPING IN THIS AREA SHALL BE INSTALLED ON ROOF AS SHOWN. REFER TO DETAIL 11 ON SHEET P4.1 FOR INSTALLATION REQUIREMENTS.
- 3. CONTRACTOR SHALL MAKE FINAL GAS CONNECTION TO MECHANICAL EQUIPMENT AS REQUIRED. CONNECT TO EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. REFER TO DETAIL 12 ON SHEET P4.1 FOR INSTALLATION REQUIREMENTS.

ELECTRIC WATER HEATER SCHEDULE

MARK	LOCATION	STORAGE GALLONS	RECOVERY GPH AT 60° F. RISE	ELECTRICAL			MANUFACTURER AND MODEL	NOTES	
				KW	VOLTS	Hz			
EW-1	CLOSET	40	41 @ 60 F.	6	208	60	3	AO SMITH DEN-40 (OR EQUAL)	1,2,3,4,5

ELECTRIC WATER HEATER NOTES:

1. PROVIDE AMTROL-THERM X-TROL ST-S-C SERIES PRE-CHARGED THERMAL EXPANSION ABSORBER.
2. REFER TO DETAIL FOR WATER HEATER SETPOINT.
3. COORDINATE POWER DISCONNECT LOCATION WITH ELECTRICAL AND ARCHITECTURAL.
4. HEATER INSTALLATIONS SHALL MEET OR EXCEED ALL CODE REQUIREMENTS, LOCAL AMENDMENTS AND MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS.
5. ALL PLUMBING SUPPLIES, VALVES AND ASSOCIATED APPURTENANCES SHALL BE INSTALLED.

CIRCULATION PUMP SCHEDULE

MARK	SERVICE	FLOW GPM	DESIGN HEAD FT. WG	ELECTRICAL DATA				MANUFACTURER AND MODEL
				HP	RPM	VOLTS	PH	
HWRP-1	HOT WATER CIRC.	5	25	1/4	3300	120	1	ITT NBF-36 (SPEED 1)

NOTES:

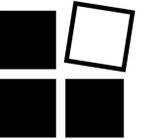
1. PROVIDE WITH 24-HR, 7-DAY TIMER CONTROLLER.
 2. INSTALL AQUASTAT ON RETURN ADJACENT TO PUMP.
- SEQUENCE OF EVENTS - HOT WATER RECIRCULATION PUMP (HWRP-1)
- OCCUPANCY START-UP SETTING:
 - TIMER FOR HWRP-1 SET TO POWER-ON 60-MINUTES BEFORE AND POWER-OFF 60-MINUTES AFTER NORMAL BUSINESS HOURS. HWRP-1 CIRCULATES HOT WATER FROM EWH-1 THROUGH THE HOT WATER DISTRIBUTION PIPING BACK TO THE EWH-1 BY MEANS OF DEDICATED HOT WATER RETURN PIPING.
 - CYCLE CONTROLS:
 - DURING OPERATION OF HWRP-1 THE TEMPERATURE SENSOR (AQUASTAT) ON THE HOT WATER RETURN PIPING SHALL MONITOR THE TEMPERATURE.
 - AQUASTAT SHALL SEND A SIGNAL TO ENERGIZE THE HWRP-1 WHEN READING A TEMPERATURE MORE THAN 5°F BELOW THE WATER HEATER THERMOSTAT SET-POINT.
 - AQUASTAT SHALL SEND A SIGNAL TO DE-ENERGIZE THE HWRP-1 UPON REACHING THE TEMPERATURE OF 5°F BELOW THE WATER HEATER THERMOSTAT SET-POINT.
 - THE OFF-ON CYCLE OUTLINED IN EVENTS 'a' AND 'b' ABOVE ARE REPEATED DURING THE OPERATIONAL TIMEFRAME SET BY THE TIMER LISTED PREVIOUSLY.

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	ADA	W	V	CW	HW	SPECIFICATION
DCV-1	BACK FLOW PREVENTER	-	--	--	1/2"	--	WATTS LF007-QT SERIES. 1/2" DOUBLE CHECK BACKFLOW PREVENTER, STRAINER, REPLACEABLE SEATS AND DISCS, ISOLATION BALL VALVES. PROVIDE STRAINER UPSTREAM OF VALVE.
EDF-1	ELECTRIC DRINKING FOUNTAIN	ADA	2"	2"	1/2"	--	ELKAY LVRCGRNLT8W5CX SERIES. WALL HUNG, LIGHT GRAY, REFRIGERATED, 8.0 GPH, TOUCHLESS SENSORS, INTEGRAL BOTTLE FILLER (LZWSR). SUPPLY: MCGUIRE 2165 SERIES. TRAP: MCGUIRE 8902 SERIES. CAST BODY WITH CLEAN-OUT. PROVIDE COMPATIBLE MATCHING APRON CANE ELKAY LKAPREZL (OR EQUAL). CONCEALED CARRIER: SMITH, FLOOR MOUNTED. REFER TO ARCHITECTS PLAN FOR EXACT LOCATION.
FD-1	FLOOR DRAIN	-	2"	2"	--	--	JR SMITH MODEL 2005-A SERIES. CAST IRON BODY, 6-INCH ROUND ADJUSTABLE CHROME PLATED STRAINER, FLASHING COLLAR WITH SEEPAGE OPENINGS, TAPPED FOR STRAINER HEAD, 1/2-INCH TRAP PRIMER CONNECTION.
L-1	WALL LAVATORY (ADA COMPLIANT)	ADA	1-1/2"	1-1/2"	1/2"	1/2"	KOHLER "CHESAPEAKE" K-1722, 20"x18", VITREOUS CHINA, INTEGRAL OVERFLOW, CLAMP ASSEMBLY, ADA FAUCET: TOTO T28S51, ECOPOWER SENSOR FAUCET, ADA COMPLIANT, INTEGRAL SPOUT, 0.5-GPM LOW FLOW AERATOR. SUPPLY: MCGUIRE 2167 SERIES. TRAP: MCGUIRE 8902 SERIES. STRAINER AND TAILPIECE: MCGUIRE 155WC. PROTECTIVE PIPE COVERS: TRUEBRO 102W SERIES. CARRIER, CONCEALED FLOOR MOUNTED JAY R. SMITH (OR EQUAL) MIXING VALVE: LEONARD LF170 ASSE 1070 LISTED THERMOSTATIC TYPE MIXING VALVE, INLET CHECKSTOPS, PROVIDE MOUNTING BRACKET (-BRT), SET TO 105°.
MS-1	MOP SINK	-	3"	2"	1/2"	1/2"	FIAT MSB-2424, 24 X 24-IN, 10-IN HIGH WALLS WITH 1-IN WIDE SHOULDERS, STAINLESS STEEL DRAIN BODY (3-IN DRAIN PIPE CONNECTION), COMBINATION DOME STRAINER AND STAINLESS STEEL LINT BASKET. FAUCET: 830A WALL MOUNTED FAUCET WITH VACUUM BREAKER, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT. STAINLESS STEEL WALL GUARDS, BUMPER GUARDS, MOP BRACKET, AND HOSE AND BRACKET.
RPZ-1	BACK FLOW PREVENTER	-	--	--	1/2"	--	WATTS NO. LF009M1QT-S REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH QUARTER-TURN, FULL PORT RESILIENT SEATED BRONZE BALL VALVE SHUTOFFS, CHECK MODULES, BRONZE STRAINER AND AIR GAP FITTING. SEE PLANS FOR SIZE.
S-1	SINK (ADA COMPLIANT) @ EXAM ROOMS	ADA	1-1/2"	1-1/2"	1/2"	1/2"	ELKAY LRAD1720-55-3. 18-GAUGE, FULLY UNDERCOATED, STAINLESS STEEL, SINGLE-BOWL, 5-1/2-IN DEEP, OFF-CENTER DRAIN, ADA COMPLIANT, 3-1/2-INCH OUTLET. FAUCET: ELKAY LKD-2442-BH, SWING GOOSENECK SPOUT, BLADE HANDLES. ADA COMPLIANT. SUPPLY: MCGUIRE LF2167 SERIES. LOOSE KEY WITH RISER, INLET SHALL BE IPS OR SWEAT. TRAP: MCGUIRE 8912 SERIES. 17 GAUGE CAST BODY P-TRAP WITH CLEANOUT. STRAINER AND TAILPIECE: ELKAY LK18. PROVIDE P-TRAP AND WATER SUPPLY KIT.
S-2	SINK (ADA COMPLIANT) @ BREAK ROOM	ADA	1-1/2"	1-1/2"	1/2"	1/2"	ELKAY LRAD2219-55-3. 18-GAUGE, FULLY UNDERCOATED, STAINLESS STEEL, SINGLE-BOWL, 5-1/2-IN DEEP, OFF-CENTER DRAIN, ADA COMPLIANT, 3-1/2-INCH OUTLET. FAUCET: ZURN Z831B4, SWING GOOSENECK SPOUT, DOUBLE BLADE HANDLES. ADA COMPLIANT. SUPPLY: MCGUIRE LF2167 SERIES. LOOSE KEY WITH RISER, INLET SHALL BE IPS OR SWEAT. TRAP: MCGUIRE 8912 SERIES. 17 GAUGE CAST BODY P-TRAP WITH CLEANOUT. STRAINER AND TAILPIECE: ELKAY LK18. PROVIDE P-TRAP AND WATER SUPPLY INSULATION KIT.
S-3	SINK (ADA COMPLIANT) @ LAB	ADA	1-1/2"	1-1/2"	1/2"	1/2"	ELKAY LRAD2219-55-3. 18-GAUGE, FULLY UNDERCOATED, STAINLESS STEEL, SINGLE-BOWL, 5-1/2-IN DEEP, OFF-CENTER DRAIN, ADA COMPLIANT, 3-1/2-INCH OUTLET. FAUCET: ZURN Z831B4, SWING GOOSENECK SPOUT, DOUBLE BLADE HANDLES. ADA COMPLIANT. SUPPLY: MCGUIRE LF2167 SERIES. LOOSE KEY WITH RISER, INLET SHALL BE IPS OR SWEAT. TRAP: MCGUIRE 8912 SERIES. 17 GAUGE CAST BODY P-TRAP WITH CLEANOUT. STRAINER AND TAILPIECE: ELKAY LK18. PROVIDE P-TRAP AND WATER SUPPLY INSULATION KIT.
TMV-1	THERMOSTATIC MIXING VALVE	-	--	--	3/4"	3/4"	LEONARD LFTM-26-E THERMOSTATIC TYPE, EXPOSED WITHOUT CABINET, WALL MOUNTED, THREADED, 3/4-IN INLETS, 3/4-IN OUTLET, PROVIDE INLET/OUTLET TEMPERATURE GAUGE, ADJUSTABLE HIGH TEMPERATURE STOP, INLET CHECKSTOPS, SUPPORT. OUTLET TEMPERATURE SHALL BE SET TO 120°.
TP-1	TRAP PRIMER / SEAL	-	--	--	--	--	JAY R SMITH 2698 SERIES. CHROME PLATED CAST BRASS P-TRAP, TAILPIECE TYPE TRAP PRIMER, 1/2-IN PRIMER TUBE WITH COMPRESSION FITTING, THREADED JOINT ELBOW CONNECTOR, AND ESCUTCHEONS.
WB-1	WALL BOX	-	--	--	1/2"	--	IPS WATER-TITE SERIES, ANGLE STOP WALL BOX WITH 1/4 TURN ANGLE STOP, FRONT FLANGES, AND INTEGRAL WATER HAMMER ARRESTER.
WC-1	WATER CLOSET	ADA	4"	2"	1/2"	--	AMERICAN STANDARD 2467 SERIES. VITREOUS CHINA, ELONGATED RIM, PRESSURE ASSIST, 1.1 GAL FLUSH, BOLT CAPS, INTEGRAL TRAP, ADA SEAT: ZURN 5955S-EL SERIES. OPEN-FRONT SEAT WITHOUT COVER. SUPPLIES: MCGUIRE 2167 SERIES. MOUNTING HEIGHT OF WATER CLOSET AND FLUSH VALVE SHALL BE ADA COMPLIANT. MOUNT FLUSH VALVE HANDLE TOWARD "WIDE" SIDE IN ADA COMPLIANT SPACES.
WCO	WALL CLEANOUT	-	--	--	--	--	TAPPED CLEANOUT TEE, EXTRA-HEAVY, THREADED, SOLID HEXAGONAL NUT. CLEANOUTS IN HUBS OF COMBINATION WYE AND 1/8-BENDS OR WYES; TAPPED SPIGOT. CLEANOUTS AT ENDS OF HUBLESS COMBINATION WYE AND 1/8-BENDS OR WYES; BLIND PLUG. COVERS OVER CLEANOUTS IN CONCEALED VERTICAL PIPING (ALL AREAS, FINISHED AND UNFINISHED); SQUARE FRAME WITH SECURED, SMOOTH, SATIN NICKEL BRONZE ACCESS COVER. OPENING SIZES: 4-IN AND SMALLER PIPING: 6 X 6-IN. LARGER THAN 4-IN PIPING: 8 X 8-IN. CERAMIC TILE, QUARRY TILE, STONE, RESILIENT TILE, AND SHEET: FACE FLANGE TO HIDE ROUGH WALL OPENING. SMITH 4430 SERIES.
WF-1	WATER FILTER	-	--	--	1/2"	--	AQUA-PURE SST1HA WITH AP-AP117S SERIES FILTER CARTRIDGE. TRIPLE ACTION FILTER, TASTE/ODOR/SCALE/SEDIMENT FILTER, 3.0-GPM FLOW RATE, INSTALL WITH SHUT-OFF VALVE AND FULL SIZE BY-PASS.
HWBV-1	HOT WATER BALANCING VALVE	-	--	--	SEE PLANS	--	THERMOMEGATECH "CIRCUITSOLVER" CS-X-130 STAINLESS STEEL AUTOMATIC HOT WATER RETURN BALANCING VALVE. PROVIDE ISOLATION VALVE UPSTREAM (WITH DIELECTRIC UNION) AND DOWNSTREAM (WITH DIELECTRIC UNION) OR CIRCUITSOLVER TO ALLOW SERVICING. "X" DESIGNATION EQUALS PIPE SIZE, MATCH CIRCUITSOLVER SIZE TO SIZE OF CONNECTION PIPING.

NOTES:

1. ALL PLUMBING FIXTURES, FITTINGS AND PIPES SHALL BE CERTIFIED "LEAD FREE" AS PER THE FEDERAL DRINKING WATER ACT STANDARDS: NSF 372 OR NSF 61-G.



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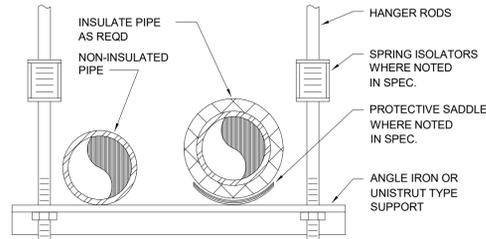
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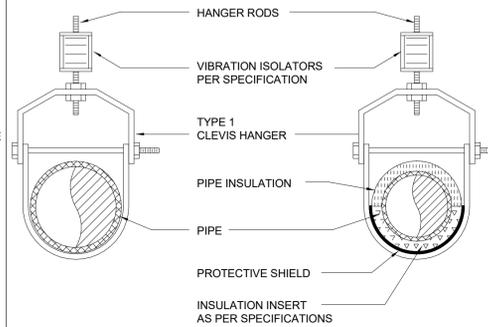
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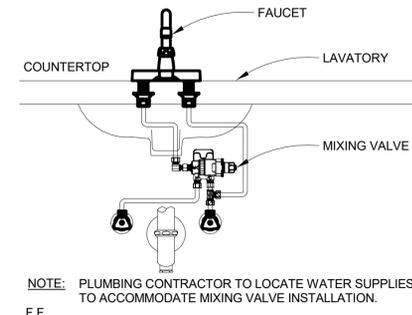
NOTES:
 SIZE RODS, SPRING CUSHION, AND HORIZONTAL MEMBER APPROVED TO SATISFY LOAD REQUIREMENT W/SAFETY FACTOR OF 5



01 PIPE SUPPORT - TRAPEZE TYPE
 NTS

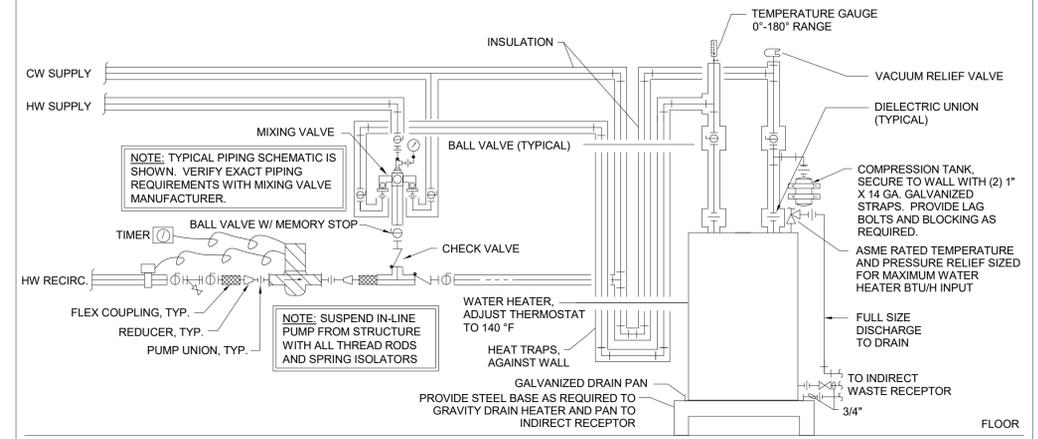


02 SINGLE PIPE CLEVIS HANGER
 NTS



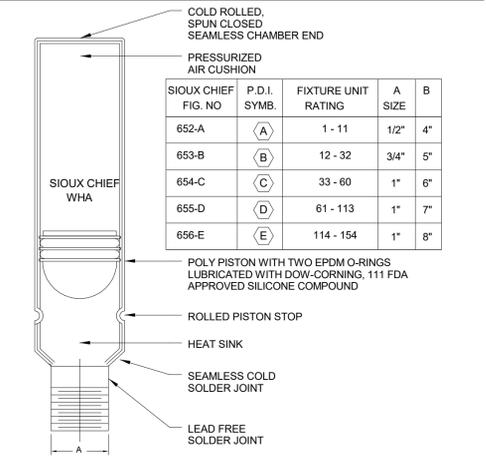
NOTE: PLUMBING CONTRACTOR TO LOCATE WATER SUPPLIES TO ACCOMMODATE MIXING VALVE INSTALLATION.
 F.F.

03 MIXING VALVE DETAIL
 NTS

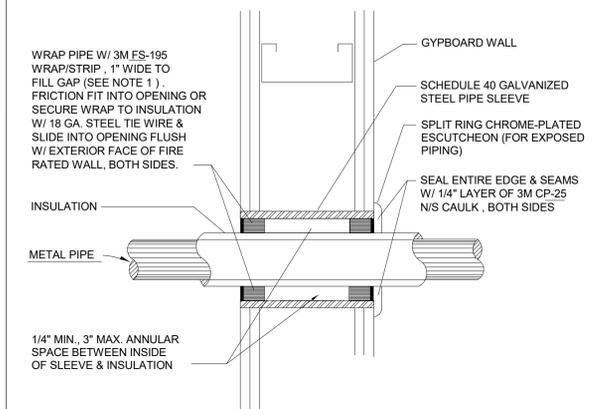


04 WATER HEATER DETAIL
 NTS

NOTE: WATER HAMMER ARRESTOR BY SIOUX CHIEF 650 - 660 SERIES HYDRA-RESTER. REQUIRED IN PIPING SYSTEMS. WATER HAMMER ARRESTERS SHALL HAVE SUFFICIENT VOLUME OF AIR TO DISSIPATE THE CALCULATED KINETIC ENERGY GENERATED IN THE PIPING SYSTEM. ARRESTERS SHALL BE EFFECTIVE WHEN INSTALLED AT ANY ANGLE. ARRESTERS SHALL BE APPROVED FOR INSTALLATION WITH NO ACCESS PANEL REQUIRED. WATER HAMMER ARRESTERS SHALL BE ANSI / ASSES 1010 S004 CERTIFIED AND SHALL BE SIZED AND PLACED PER MANUFACTURER'S INSTRUCTIONS.



05 WATER HAMMER ARRESTOR DETAIL
 NTS



06 WALL SLEEVE (METAL PIPE AND INSULATION)
 NTS

DESIGN BASED ON PENETRATION FIRESTOP THRU 1-2 HOUR FIRE-RATED GYP. BOARD WALL, UL CLASSIFICATION SYSTEM W/1001

NOTE 1
 IF ANNULAR SPACE IS LESS THAN 1/2" & INSULATION THICKNESS IS 1" OR LESS, USE ONE WRAP OF 1" WIDE FS-195 AS SHOWN. 2" WIDE STRIPS MUST BE USED IF EITHER OF THE FOLLOWING CONDITIONS EXIST:
 A. ANNULAR SPACE EXCEEDS 1".
 B. PIPE INSULATION THICKER THAN 1".
 SPACE BETWEEN & INSIDE SURFACE OF SLEEVE MUST ACCOMMODATE AT LEAST 1 WRAP OF FS-195 PER INCH OF INSUL. ANY REMAINING ANNULAR SPACE SHALL BE FILLED W/ ADDITIONAL FS-195 WRAPS UNTIL ANNULAR SPACE IS LESS THAN 1/4". FILL REMAINING SPACE W/ 3M CP-25 N/S CAULK.

PREFORMED FIBERGLASS INSULATION

A. GENERAL: INSULATION MATERIAL SHALL BE SCHULLER MICRO-LOK APT. OWENS-CORNING AS/SSL, OR CERTAINTED SNAP-ON ASJ/SSL PREFORMED GLASS FIBER PIPE INSULATION.

B. CONDUCTIVITY: PREFORMED GLASS FIBER PIPE INSULATION SHALL HAVE AN AVERAGE THERMAL CONDUCTIVITY (K FACTOR) NOT TO EXCEED 0.23 BTU IN/HR SF OF AT 750F MEAN TEMPERATURE AND AN 8500F TEMPERATURE LIMIT.

C. JACKET: THE INSULATION SHALL INCLUDE AN ALL-PURPOSE JACKET CONSISTING OF A HIGH DENSITY, WHITE KRAFT BONDED TO ALUMINUM FOIL AND REINFORCED WITH FIBERGLASS YARN. THE JACKET SHALL INCLUDE A LONGITUDINAL LAP WITH A PRESSURE SENSITIVE TAPE LAP SEALING SYSTEM.

PIPE INSULATION ACCESSORIES

A. PROTECTION SHIELDS: PROVIDE PROTECTION SHIELDS AT ALL CLEVIS HANGERS.

B. PROTECTION SHIELD INSERTS: WHERE PROTECTION SHIELDS ARE USED, PROVIDE AN INSERT BETWEEN THE PIPING AND THE SHIELD 2" LONGER AND 2" WIDER THAN THE SHIELD, HAVING THE SAME THICKNESS AND CONTOUR AS THE ADJOINING INSULATION. INSERTS SHALL BE MINIMUM 8.0-POUND DENSITY, MINIMUM 100 PSI COMPRESSIVE STRENGTH.

- PITTSBURGH-CORNING FOAMGLAS CELLULAR GLASS
- JOHNS-MANVILLE THERMO-12 CALCIUM SILICATE
- RESOLCO INSUL-PHEN PHENOLIC FOAM

C. PREFORMED FITTING INSULATION/COVERS: FITTINGS, FLANGES, STRAINERS, UNIONS, AND VALVES SHALL BE INSULATED WITH PRE-MOLDED RIGID GLASS FIBER OR PHENOLIC FOAM INSULATION AND ONE PIECE PREFORMED PVC COVERS. BLANKET INSULATION SHALL NOT BE USED FOR FITTINGS.

- JOHNS-MANVILLE ZESTON 2000
- KNAUFPROTO
- FULLER-SEALFAS
- FOSTER SMOKE-SAFE

D. BANDING: PIPE INSULATION 2" AND LARGER SHALL BE Banded WITH EITHER OF THE FOLLOWING:

- A.J. GERRARD & COMPANY "STEEL-BINDER" 0.02" THICK BY 1/2" WIDE ALUMINUM BANDS OR APPROVED EQUAL.
- THOMAS & BETTS "TY-RAP" NYLON TIES OR APPROVED EQUAL.

ADHESIVES/SEALANTS/COATINGS

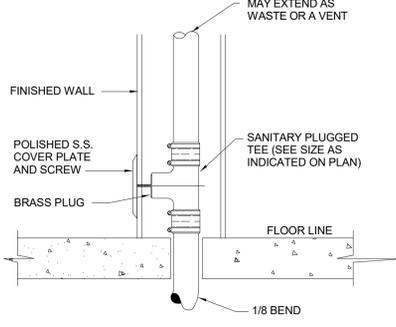
A. FIBERGLASS INSULATION ADHESIVE: ADHESIVES SHALL COMPLY WITH ASTM C916, STANDARD SPECIFICATION FOR ADHESIVES FOR DUCT THERMAL INSULATION.

- FOSTER (H.B. FULLER CO.) 85-60
- CHILDERS CP-127

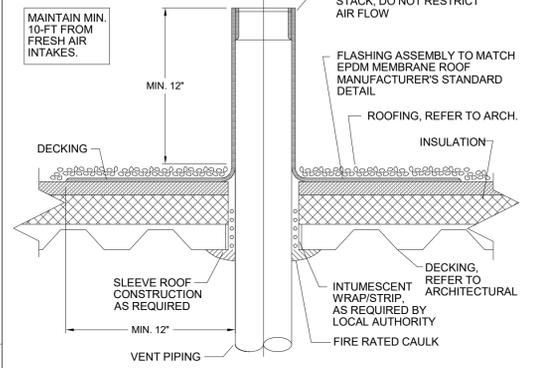
B. VAPOR BARRIER COATINGS: INDOOR APPLICATIONS, WATER BASED VAPOR BARRIER COATING FOR SERVICE -200F TO 1800F, PERMEANCE 0.013 PERMS OR LESS AT 43 MILS DRY THICKNESS PER ASTM E 96, PROCEDURE B. COATING MUST ALSO MEET MIL 19565C, TYPE II AS BE LISTED ON QUALIFIED PRODUCTS DATABASE (OPD).

- CHILDERS CP-38
- FOSTER (H.B. FULLER CO.) 30-80
- VIMASCO 749
- MEI 55-10

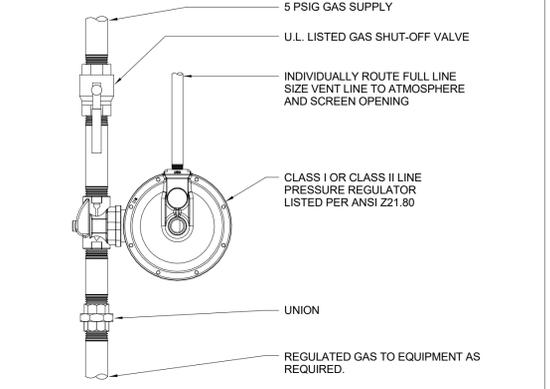
13 INSULATION SPECIFICATIONS
 NTS



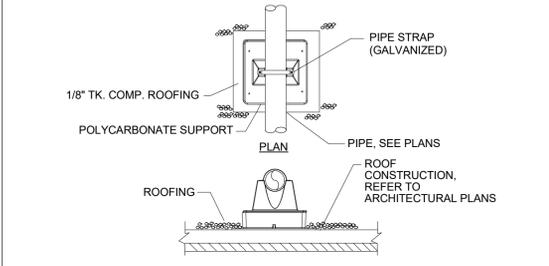
10 WALL CLEANOUT DETAIL
 NTS



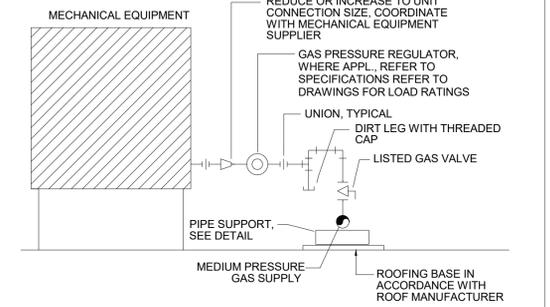
07 SANITARY VENT THROUGH ROOF SCALE: NONE



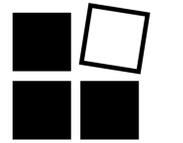
08 GAS PRESSURE REGULATOR SCALE: NONE



11 GAS PIPE SUPPORT ON ROOF SCALE: NONE



12 ROOFTOP EQUIPMENT GAS CONNECTION SCALE: NONE



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05/30/2024

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 Project No. www.wylieeng.com



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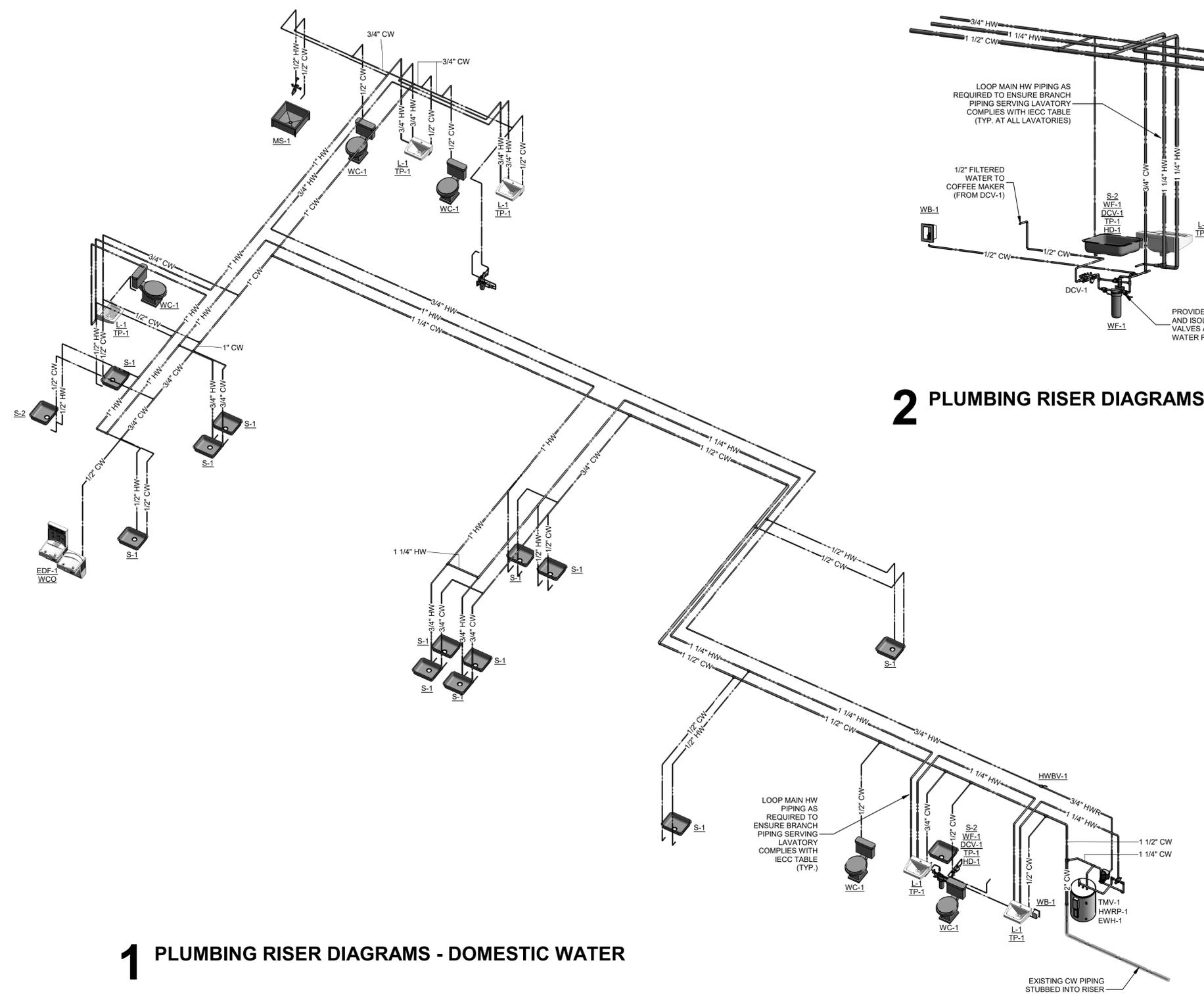
SHEET TITLE

PROJECT NO: WTX07J
 DATE: 05.31.24
 REVISION DATES:

PLUMBING DETAILS

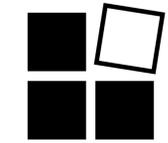
SHEET NUMBER

P4.1



1 PLUMBING RISER DIAGRAMS - DOMESTIC WATER

2 PLUMBING RISER DIAGRAMS - BREAK 130



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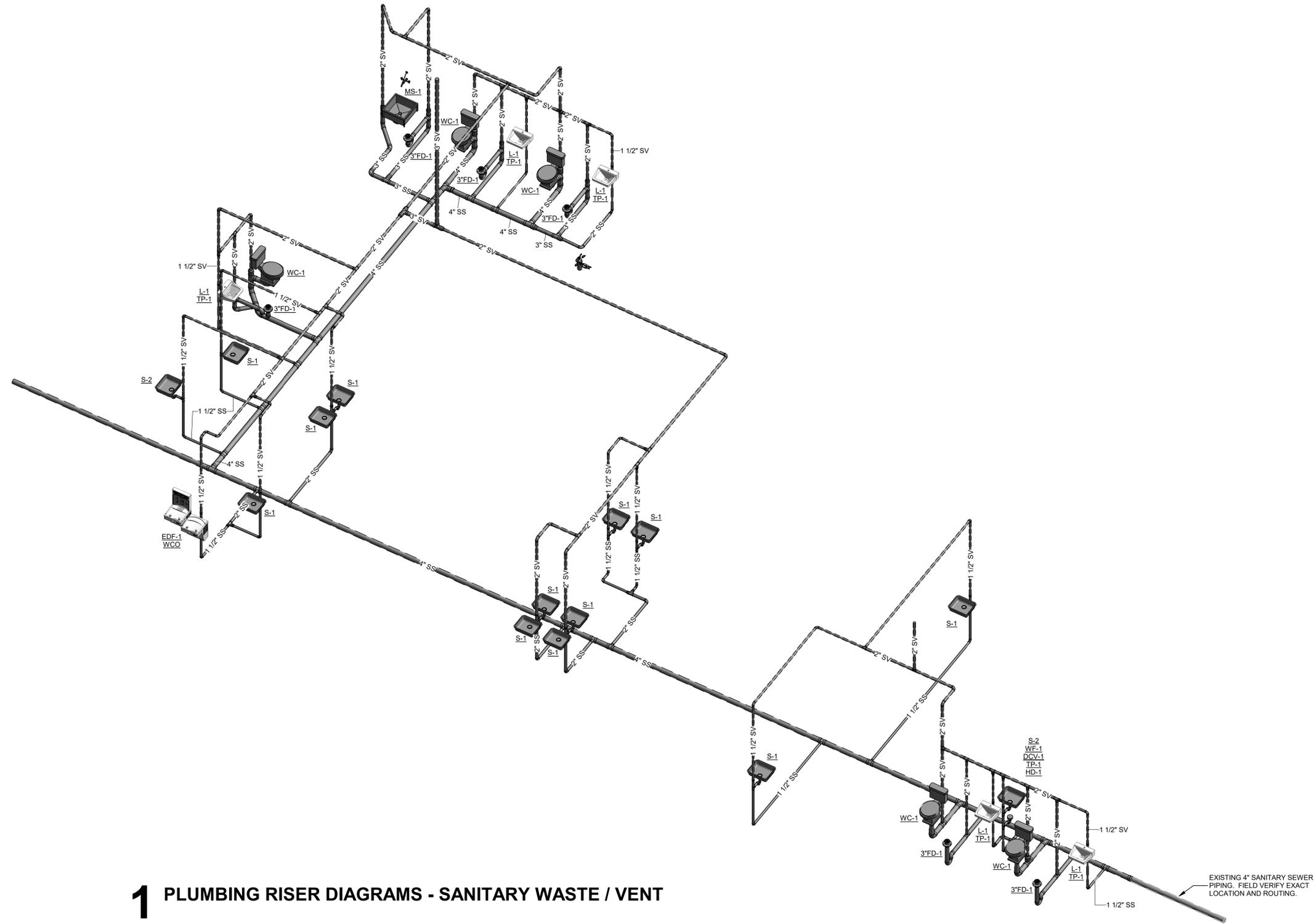
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 KELLER
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 KELLER, TX 76248

SHEET TITLE

PROJECT NO: WTX07J
 DATE: 05.31.24
 REVISION DATES:

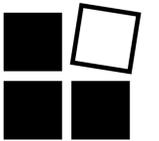
PLUMBING RISER DIAGRAMS - WATER

SHEET NUMBER
P5.1



1 PLUMBING RISER DIAGRAMS - SANITARY WASTE / VENT

EXISTING 4\"/>



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PLUMBING RISER DIAGRAMS - SANITARY

SHEET NUMBER

P5.2

