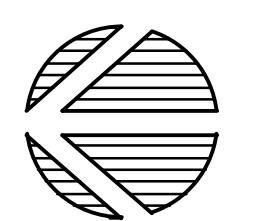


DEMOLITION PLAN

1/4" = 1'-0"



Construction Notes

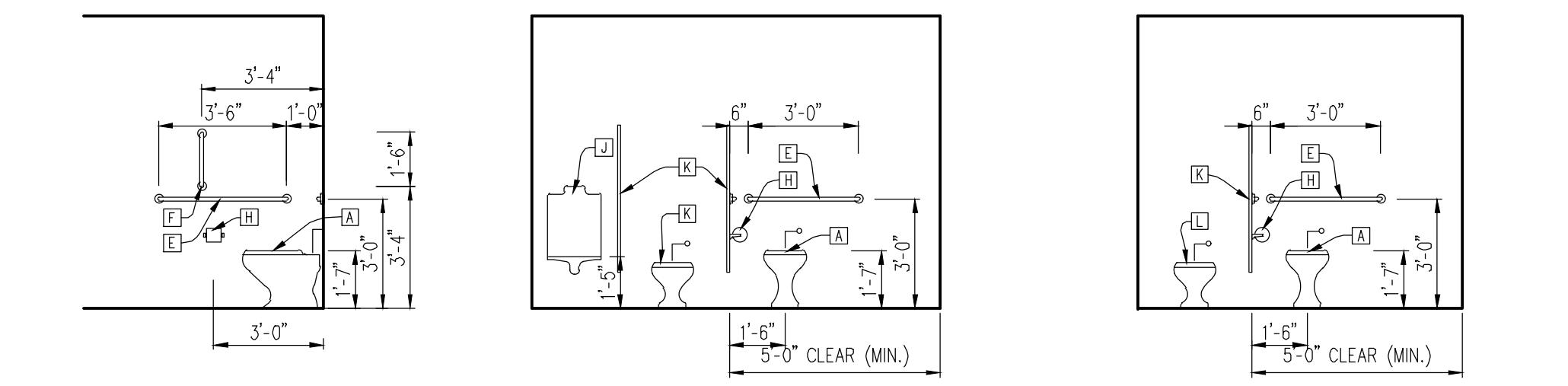
1. ALIGN NEW CONSTRUCTION W/ EXISTING SURFACE.
2. REMOVE EXISTING TOILET PARTITIONS, PLUMBING FIXTURES, MILLWORK & ACCESSORIES.
3. REMOVE MATERIALS TO CREATE NEW OPENING FOR DOOR PER FLOOR PLAN.

Legend

- EXISTING PARTITION TO REMAIN
- EXISTING TO BE REMOVED
- NEW METAL STUD WALL

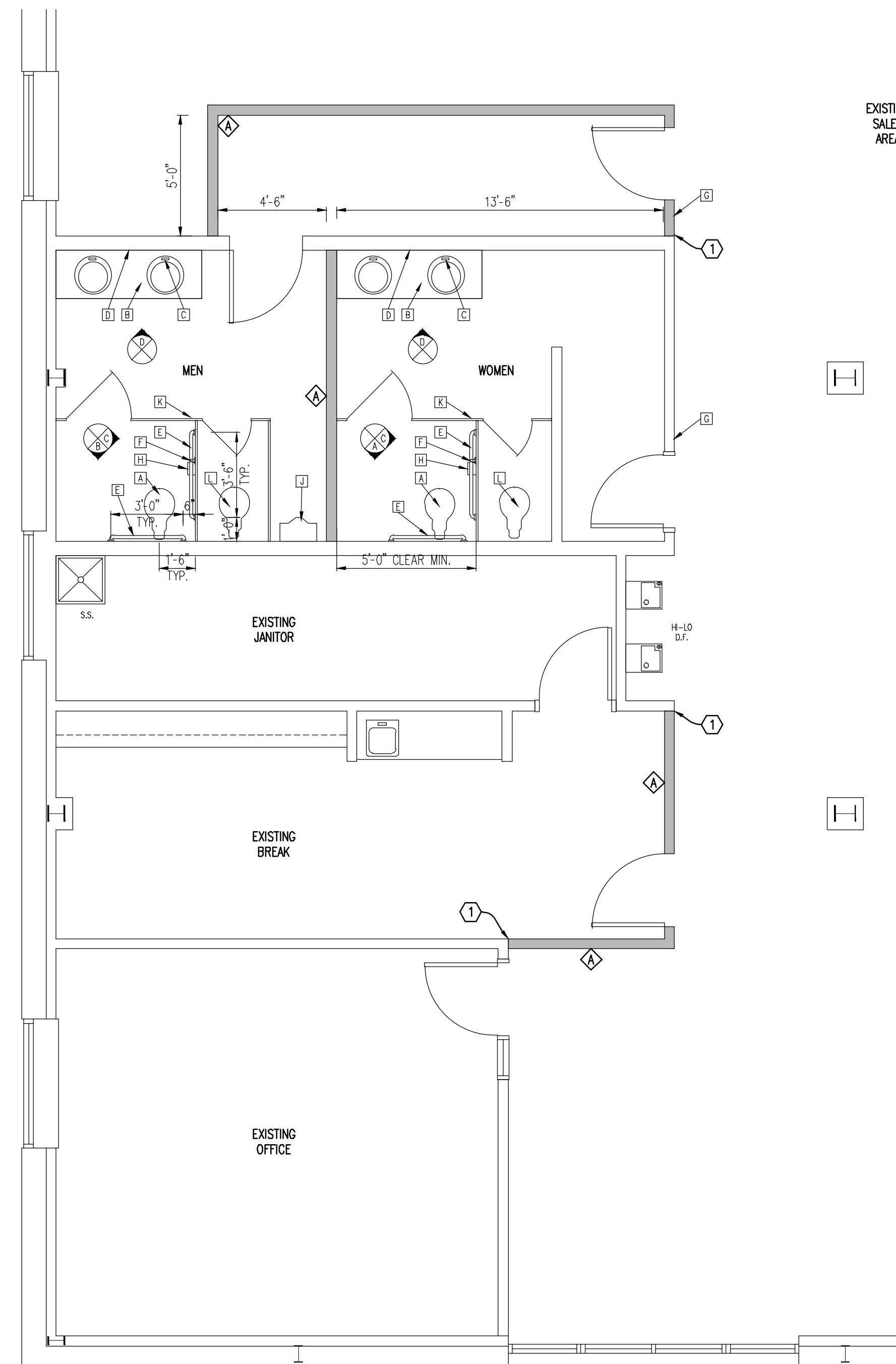
Partition Types

A. 3 5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 1/2" GYP. BOARD EA. SIDE. CONSTRUCT THRU EXISTING CEILING GRID ABOVE.



Toilet Room Notes

- A. NEW WATER CLOSET PER ICC/ANSI: SEAT @ 17" - 19" HEIGHT.
- B. NEW COUNTERTOP MOUNTED LAVATORY PER ICC/ANSI: MOUNT TOP @ 34" HEIGHT W/ 29" KNEE SPACE BELOW PER ICC/ANSI. INSULATE HOT WATER & DRAIN PIPES UNDER LAVATORIES.
- C. NEW LEVER-OPERATED FAUCETS: FORCE TO OPERATE NOT TO EXCEED 5 lbf.
- D. NEW MIRROR, COUNTERTOP WIDTH X 3'-0": BOTTOM OF MIRROR @ 40" HEIGHT, TOP @ 90" HEIGHT.
- E. NEW 1 1/4" DIAMETER S.S. GRAB BAR PER ICC/ANSI: MOUNT @ 33" - 36" HEIGHT.
- F. NEW 1 1/4" DIAMETER S.S. GRAB BAR PER ICC/ANSI: MOUNT BOTTOM @ 40" - TOP @ 58" HEIGHT.
- G. VISUAL/ TACTILE ROOM IDENTIFICATION SIGNAGE PER ICC/ANSI. MOUNT @ 60" HEIGHT TO CENTERLINE OF SIGN.
- H. NEW TOILET PAPER DISPENSER PER ICC/ANSI: MOUNT @ 19" HEIGHT.
- J. NEW WALL MOUNTED URINAL PER ICC/ANSI: RIM @ 17" HEIGHT.
- K. NEW TOILET PARTITIONS.
- L. EXISTING WATER CLOSET TO REMAIN.



FLOOR PLAN

1/4" = 1'-0"

PROPOSED ALTERATIONS TO
EXISTING BUILDING SHELL LOCATED AT
8336 SPRINGBORO PIKE
MIAMI TOWNSHIP,
MONTGOMERY COUNTY, OHIO 45342

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PROJECT NO.

PROJECT TITLE

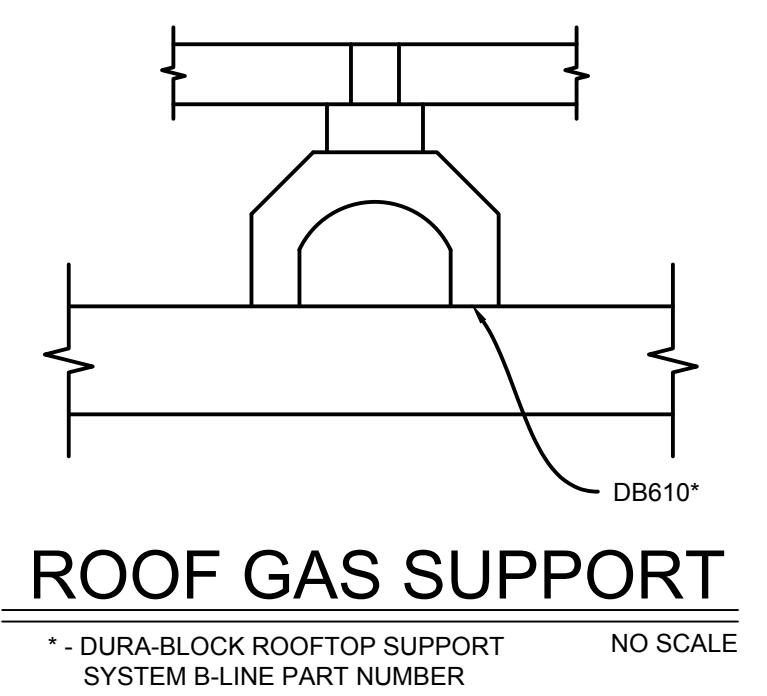
BARGAIN
HUNT

DWG. TITLE

FLOOR PLAN

DWG. NO.

A-2



ROOF GAS SUPPORT

NATURAL GAS PIPING NOTES

1. THIS CONTRACTOR SHALL INSTALL GAS PIPING IN ACCORDANCE WITH INTERNATIONAL FUEL GAS CODE (LATEST EDITION).
2. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL PIPING SYSTEMS COMPLETE, UNLESS NOTED OTHERWISE. COMPLETE INSTALLATION SHALL INCLUDE, BUT NOT LIMITED TO, ALL PIPE AND FITTINGS, PIPE HANGERS AND ANCHORS, EQUIPMENT, FIXTURES, SPECIALTIES, ETC. THIS CONTRACTOR SHALL COORDINATE PROVISIONS FOR PENETRATIONS IN BLOCK WALLS (I.E. SLEEVES, LINTELS, ETC.) WITH THE GENERAL CONTRACTOR.
3. THIS CONTRACTOR IS RESPONSIBLE FOR FILING ALL PERMIT APPLICATIONS AND ASSOCIATED COSTS WITH THE NECESSARY GOVERNING AUTHORITIES RELATIVE TO NATURAL GAS INSTALLATION WORK ON THIS PROJECT. ALL WORK SHALL CONFORM TO ALL CODES THAT APPLY (MATERIAL AND LABOR).
4. THIS CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS TO AVOID INTERFERENCES AND CONFLICTS WITH OTHER TRADES. THIS CONTRACTOR WILL BE EXPECTED TO COVER ALL REWORK COSTS DUE TO LACK OF COORDINATION BY THIS CONTRACTOR.
5. THIS CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PIPE SIZES, LOCATIONS, RELATIVE DIMENSIONS, ETC.
6. THIS CONTRACTOR SHALL MAINTAIN DIMENSIONED "AS-BUILT" DRAWINGS FOR ALL UNDERGROUND UTILITIES DURING CONSTRUCTION AND PROVIDE TO ARCHITECT AT PROJECT COMPLETION.
7. ALL WORK SHALL CONFORM TO ASSOCIATED SPECIFICATIONS. THIS CONTRACTOR SHALL PROVIDE AND INSTALL NATURAL GAS DISTRIBUTION TO ALL NECESSARY LOCATIONS INCLUDING DIRT LEGS, VALVES, HANGERS, ETC.
8. ALL GAS PIPING SHALL BE INSTALLED MEETING THE REQUIREMENTS OF IFGC CODE, LATEST EDITION, AND AS DESCRIBED BELOW.
 - A. ALL PIPING SHALL BE SUPPORTED WITH 3/8" ALL THREAD AND CLEVIS HANGERS IN ACCORDANCE WITH TABLE 415.1 OF THE INTERNATIONAL FUEL GAS CODE (LATEST EDITION).
 - B. ALL NATURAL GAS PIPE SHALL BE ASTM A53, SEAMLESS, GRADE B, SCHEDULE 40, BLACK STEEL. ALL PIPE INSTALLED UNDERGROUND SHALL BE PLASTIC COATED.
 - C. THREADED FITTINGS SHALL BE MALLEABLE IRON CONFORMING TO ASME B16.3, CLASS 150, STANDARD PATTERN.
 - D. UNIONS SHALL BE MALLEABLE IRON WITH BRASS TO IRON SEAT CONFORMING TO ASME B16.39, CLASS 150.
 - E. WELDED FITTINGS SHALL BE LONG RADIUS, BUTT-WELDED TYPE WROUGHT STEEL CONFORMING TO ASME B16.9 OR FORGED STEEL CONFORMING TO ASME B16.11.
 - F. FLANGES SHALL CONFORM TO ASME B16.5.
 - G. ALL NATURAL GAS VALVES SHALL BE AGA APPROVED BALL VALVE, BRONZE BODY, FULL PORT. INSTALL ALL SHUTOFF VALVES IN ACCESSIBLE LOCATION.
 - H. ALL NATURAL GAS PIPING JOINTS 2-1/2" DIAMETER AND LARGER SHALL BE WELDED AND ALL NATURAL GAS PIPING JOINTS 2" DIAMETER AND SMALLER SHALL BE THREADED.
9. THIS CONTRACTOR SHALL PROVIDE AND INSTALL DOMESTIC HOT AND COLD WATER DISTRIBUTION TO ALL OBVIOUSLY NECESSARY LOCATIONS INCLUDING ALL VALVES, FITTINGS, HANGERS, BACKFLOW PREVENTERS, WATER HEATERS, ETC.
10. ALL WATER PIPING SHALL BE INSTALLED MEETING THE REQUIREMENTS OF OBC - PLUMBING CODE, LATEST EDITION, AND AS DESCRIBED BELOW.
 - A. ALL PIPING SHALL BE SUPPORTED WITH 3/8" ALL THREAD AND CLEVIS HANGERS AND IN ACCORDANCE WITH SECTION 308 OF THE OBC - PLUMBING CODE, LATEST EDITION.
 - B. THIS CONTRACTOR SHALL INSULATE ALL NEW DOMESTIC HOT AND COLD WATER DISTRIBUTION INCLUDING FITTINGS.
 - C. THIS CONTRACTOR SHALL PROVIDE AND INSTALL SERVICE VALVES ON ALL DOMESTIC HOT AND COLD WATER DISTRIBUTION TO EACH FIXTURE. ALL VALVES SHALL BE LOCATED IN CONVENIENT LOCATIONS.
 - D. ALL HOSE BIBBS SHALL BE MOUNTED AT 24" ABOVE GRADE, UNLESS NOTED OTHERWISE.
 - E. THE CONTRACTOR SHALL PROVIDE APPROPRIATE AIR CHAMBERS AT ALL EQUIPMENT WITH QUICK CLOSING VALVES.
 - F. ALL DOMESTIC WATER PIPING SHALL BE ASTM B 88 TYPE L, HARD COPPER TUBE WITH SOLDERED FITTINGS ASME B16.18 CAST COPPER ALLOY OR ASME B16.22 WROUGHT COPPER. ALL JOINTS SHALL BE SOLDERED WITH ASTM B 32 95-5 TIN-ANTIMONY SOLDER OR APPROVED EQUAL.
 - G. ALL PIPE INSULATION SHALL BE 1" THICK WITH ALL SERVICE JACKET. THE INSULATING BLANKET SHALL HAVE A "U" VALUE OF 0.28 BTUH-H/IN-SQ.FT-°F AT 100°F MEAN TEMPERATURE DIFFERENCE AND A COMPOSITE FIRE AND SMOKE HAZARD RATING, AS TESTED BY PROCEDURE ASTM E-84, NFPA 255 AND UL 723, NOT EXCEEDING FLAME SPREAD 25 AND SMOKE DEVELOPED 50. PIPE INSULATION SHALL BE AS MANUFACTURED BY KNAUF OR APPROVED EQUAL. ALL INSULATION JOINTS SHALL BE TIGHTLY BUTTED AND COVERED WITH 4" WIDE X .0025" FOIL TAPE ADHERED WITH LAP SEAL ADHESIVE TO PROVIDE A COMPLETE VAPOR BARRIER ENVELOPE.
11. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL SANITARY SEWER TO ALL NECESSARY LOCATIONS INCLUDING FLOOR DRAINS, CLEANOUTS, TRAPS, VENTS, ETC.
12. ALL SANITARY SEWER SHALL BE INSTALLED MEETING THE REQUIREMENTS OF OBC - PLUMBING CODE, LATEST EDITION, AND AS DESCRIBED BELOW.
 - A. ALL SANITARY SEWER PIPE SHALL BE INSTALLED WITH 1/4" PER FOOT MINIMUM SLOPE, UNLESS NOTED OTHERWISE.
 - B. ALL EXPOSED TRAPS AND TRIM SHALL BE BRIGHT CHROME, UNLESS OTHERWISE NOTED. ALL PLUMBING FIXTURES SHALL BE WHITE, UNLESS OTHERWISE NOTED.
 - C. VENTS SHALL BE LOOPED ABOVE SUSPENDED CEILING AND/OR WITHIN ATTIC TO MINIMIZE ROOF PENETRATIONS.
 - D. PVC NOT ACCEPTABLE FOR VENT PIPING IN CEILING PLENUM SPACES.
 - E. PVC PIPE IS ACCEPTABLE FOR WASTE AND VENT PIPING. COORDINATE PIPE MATERIALS AND CEILING PLENUMS.
 - F. THIS CONTRACTOR SHALL REFERENCE ARCHITECTURAL SHEETS FOR PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS, ETC.
 - G. ALL FLOOR DRAINS SHALL HAVE TRAP PRIMER CONNECTIONS, UNLESS OTHERWISE NOTED.

PLUMBING GENERAL NOTES

1. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL PIPING SYSTEMS COMPLETE, UNLESS NOTED OTHERWISE. COMPLETE INSTALLATION SHALL INCLUDE, BUT NOT LIMITED TO, ALL PIPE AND FITTINGS, PIPE HANGERS AND ANCHORS, EQUIPMENT, FIXTURES, SPECIALTIES, ETC. THIS CONTRACTOR SHALL COORDINATE PROVISIONS FOR PENETRATIONS IN BLOCK WALLS (I.E. SLEEVES, LINTELS, ETC.) WITH THE GENERAL CONTRACTOR.
2. THIS CONTRACTOR IS RESPONSIBLE FOR FILING ALL PERMIT APPLICATIONS AND ASSOCIATED COSTS WITH THE NECESSARY GOVERNING AUTHORITIES RELATIVE TO DOMESTIC WATER, NATURAL GAS, AND SANITARY SEWER INSTALLATION WORK ON THIS PROJECT. ALL WORK SHALL CONFORM TO ALL CODES THAT APPLY (MATERIAL AND LABOR), INCLUDING ALL CURRENT 'ADA' REQUIREMENTS WHERE APPLICABLE.
3. THIS CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS TO AVOID INTERFERENCES AND CONFLICTS WITH OTHER TRADES. THIS CONTRACTOR WILL BE EXPECTED TO COVER ALL REWORK COSTS DUE TO LACK OF COORDINATION BY THIS CONTRACTOR.
4. THIS CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PIPE SIZES, LOCATIONS, RELATIVE DIMENSIONS, ETC.
5. THIS CONTRACTOR SHALL CONCEAL ALL PIPES WITHIN WALLS OR CHASES WHENEVER PRACTICAL.
6. THIS CONTRACTOR SHALL MAINTAIN DIMENSIONED "AS-BUILT" DRAWINGS FOR ALL UNDERGROUND UTILITIES DURING CONSTRUCTION AND PROVIDE TO ARCHITECT AT PROJECT COMPLETION.
7. ALL WORK SHALL CONFORM TO ASSOCIATED SPECIFICATIONS.
8. THE CONTRACTOR SHALL DEMONSTRATE OPERATION OF ALL SYSTEMS AND EQUIPMENT TO THE OWNER. THE OPERATING AND SERVICE MANUALS FOR ALL EQUIPMENT SHALL BE FURNISHED TO THE OWNER.
9. THIS CONTRACTOR SHALL PROVIDE AND INSTALL DOMESTIC HOT AND COLD WATER DISTRIBUTION TO ALL OBVIOUSLY NECESSARY LOCATIONS INCLUDING ALL VALVES, FITTINGS, HANGERS, BACKFLOW PREVENTERS, WATER HEATERS, ETC.
10. ALL WATER PIPING SHALL BE INSTALLED MEETING THE REQUIREMENTS OF OBC - PLUMBING CODE, LATEST EDITION, AND AS DESCRIBED BELOW.
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 - B. THIS CONTRACTOR SHALL INSULATE ALL NEW DOMESTIC HOT AND COLD WATER DISTRIBUTION INCLUDING FITTINGS.
 - C. THIS CONTRACTOR SHALL PROVIDE AND INSTALL SERVICE VALVES ON ALL DOMESTIC HOT AND COLD WATER DISTRIBUTION TO EACH FIXTURE. ALL VALVES SHALL BE LOCATED IN CONVENIENT LOCATIONS.
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 - E. THE CONTRACTOR SHALL PROVIDE APPROPRIATE AIR CHAMBERS AT ALL EQUIPMENT WITH QUICK CLOSING VALVES.
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 - G. ALL PIPE INSULATION SHALL BE 1" THICK WITH ALL SERVICE JACKET. THE INSULATING BLANKET SHALL HAVE A "U" VALUE OF 0.28 BTUH-H/IN-SQ.FT-°F AT 100°F MEAN TEMPERATURE DIFFERENCE AND A COMPOSITE FIRE AND SMOKE HAZARD RATING, AS TESTED BY PROCEDURE ASTM E-84, NFPA 255 AND UL 723, NOT EXCEEDING FLAME SPREAD 25 AND SMOKE DEVELOPED 50. PIPE INSULATION SHALL BE AS MANUFACTURED BY KNAUF OR APPROVED EQUAL. ALL INSULATION JOINTS SHALL BE TIGHTLY BUTTED AND COVERED WITH 4" WIDE X .0025" FOIL TAPE ADHERED WITH LAP SEAL ADHESIVE TO PROVIDE A COMPLETE VAPOR BARRIER ENVELOPE.
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 - B. ALL EXPOSED TRAPS AND TRIM SHALL BE BRIGHT CHROME, UNLESS OTHERWISE NOTED. ALL PLUMBING FIXTURES SHALL BE WHITE, UNLESS OTHERWISE NOTED.
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 - E. PVC PIPE IS ACCEPTABLE FOR WASTE AND VENT PIPING. COORDINATE PIPE MATERIALS AND CEILING PLENUMS.
 - F. THIS CONTRACTOR SHALL REFERENCE ARCHITECTURAL SHEETS FOR PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS, ETC.
 - G. ALL FLOOR DRAINS SHALL HAVE TRAP PRIMER CONNECTIONS, UNLESS OTHERWISE NOTED.

PROPOSED ALTERATIONS TO
EXISTING BUILDING SHELL LOCATED AT
8336 SPRINGBORO PIKE
MIAMI TOWNSHIP,
MONTGOMERY COUNTY, OHIO 45342

PROJECT NO.
16394A
PROJECT TITLE
TENANT
SPACE
DWG. TITLE
GENERAL
NOTES
DWG. NO.
P.001

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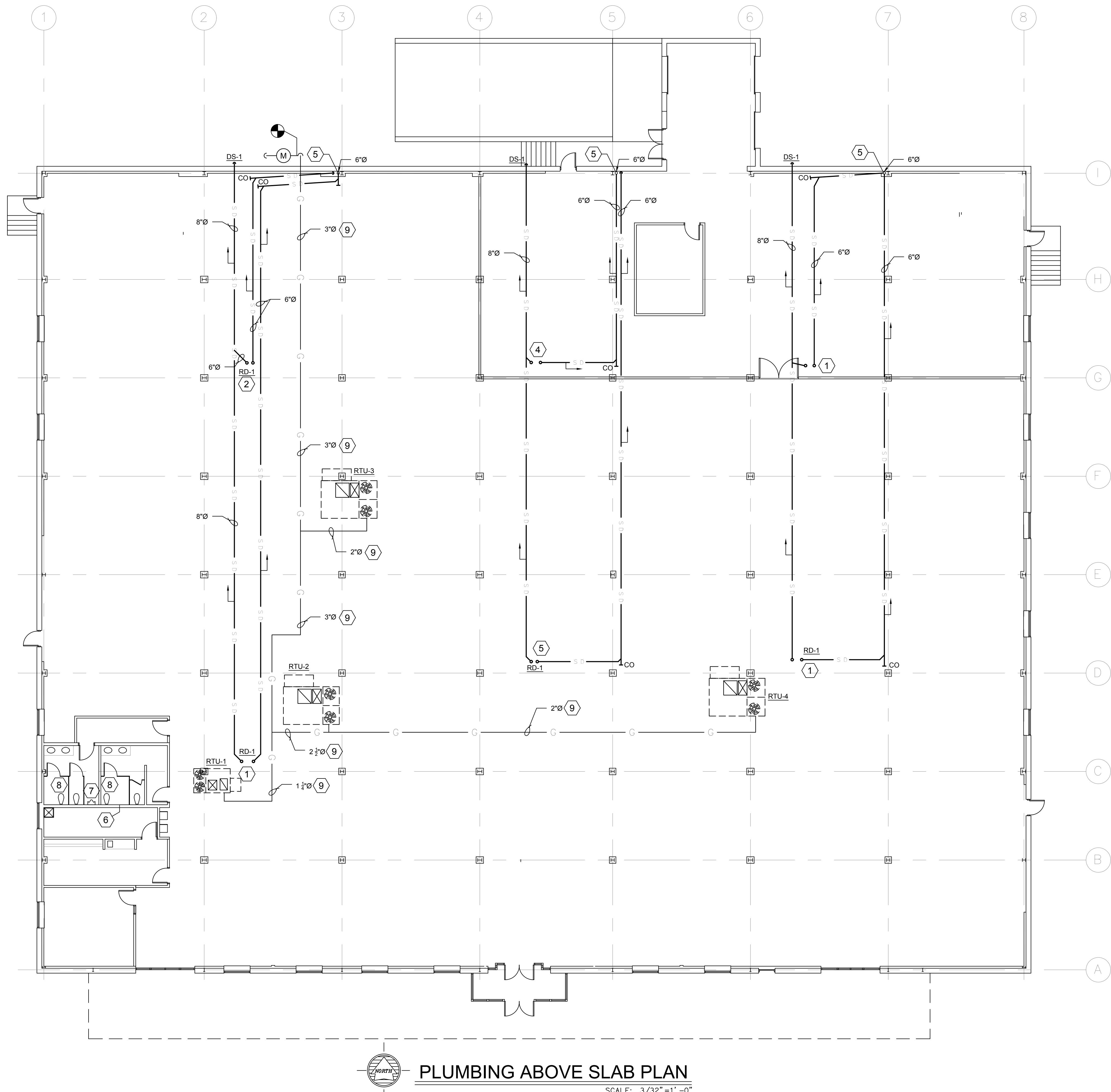
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DRAWING NOTES:

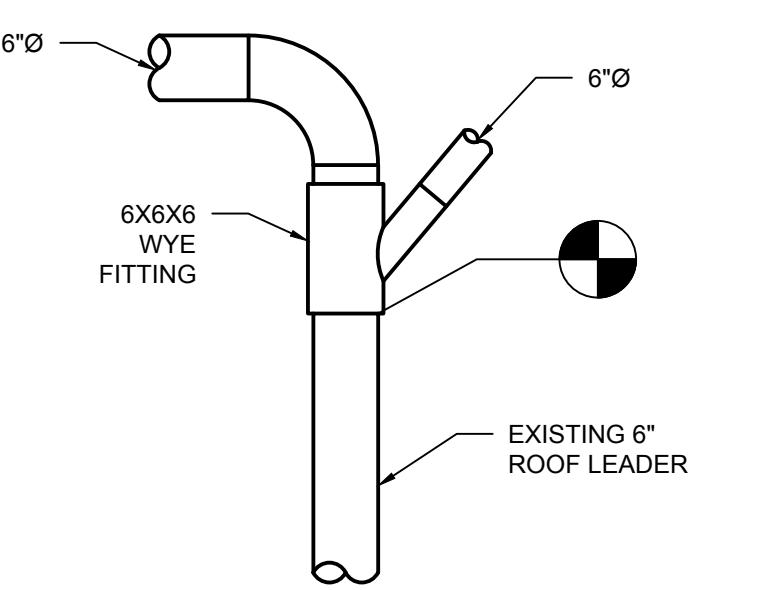
1. ROOF DRAIN SERVES APPROXIMATELY 5950 SQUARE FEET.
2. ROOF DRAIN SERVES APPROXIMATELY 5800 SQUARE FEET.
3. ROOF DRAIN SERVES APPROXIMATELY 4510 SQUARE FEET.
4. ROOF DRAIN SERVES APPROXIMATELY 4400 SQUARE FEET.
5. CONNECT 2 - 6"Ø HORIZONTAL ROOF DRAIN LINES TO 6"Ø VERTICAL LEADER. REFER TO DETAIL ON THIS SHEET.
6. REMOVE WATER CLOSET, CARRIER, A FLUSH VALVE, AND PIPING. CAP SANITARY, VENT, AND WATER IN CHASE.
7. REMOVE WATER CLOSET, CARRIER, AND FLUSH VALVE. PROVIDE URINAL, CARRIER, AND FLUSH VALVE. CONNECT TO EXISTING PIPING AS REQUIRED. URINAL SHALL BE AMERICAN STANDARD WASHBROOK 0.125 GALLONS PER FLUSH WITH MANUAL FLUSH VALVE, MODEL GS90.503. PROVIDE WATTS CA-321 CARRIER.
8. RESET WATERCLOSET AS REQUIRED FOR ADA.
9. NATURAL GAS PIPING ON ROOF TO ROOF TOP UNITS. PIPE SIZE BASED ON 250 FEET DEVELOPED LENGTH AND SIZING TABLE 402.4(1) OF THE 2009 INTERNATIONAL FUEL GAS CODE.

GENERAL NOTES:

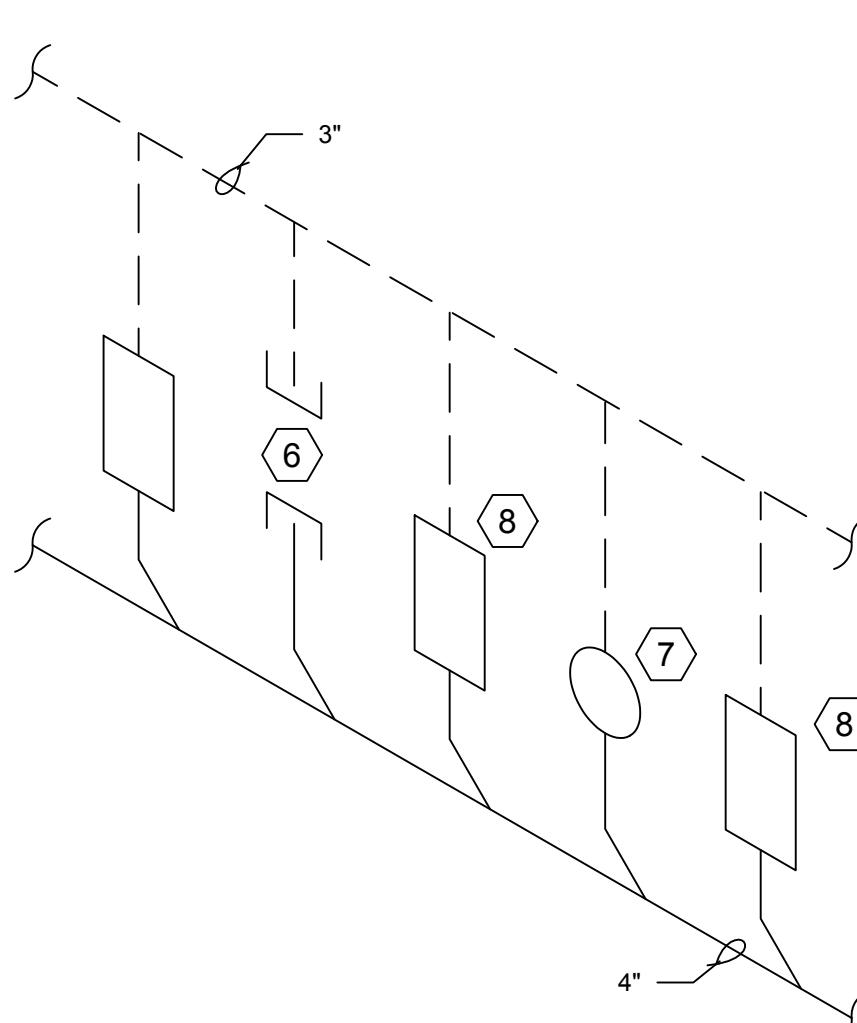
1. ROOF DRAINAGE DESIGN PER OHIO PLUMBING CODE (2016 UPDATE). DESIGN RAIN FALL = 3" PER HOUR.
2. VERTICAL CONDUCTORS ARE SIZED USING TABLE 1106.2(1). AREA ALLOWABLE FOR 4"Ø IS 6130 SQUARE FEET. AREA ALLOWABLE FOR 6"Ø IS 17,995 SQUARE FEET.
3. HORIZONTAL DRAINAGE PIPING ARE SIZED USING TABLE 1106.3, $\frac{1}{8}$ UNIT VERTICAL IN 12 UNITS HORIZONTAL (1-PERCENT SLOPE). AREA ALLOWABLE FOR 6"Ø IS 7133 SQUARE FEET. AREA ALLOWABLE FOR 8"Ø IS 15,330 SQUARE FEET.
4. PER 101.5, REDUCTIONS IN SIZE IN THE DIRECTION OF FLOW ARE PROHIBITED.

EQUIPMENT NOTES

RD-1 WATTS RD-250-4 - 4" ROOF DRAIN
DS-1 WATTS RD-948-XX - 8" DOWN SPOUT NOZZLE



ROOF LEADER DETAIL



PARTIAL ISOMETRIC

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ROOFTOP AIR HANDLING UNIT SCHEDULE																						
MARK	MANUFACTURER	MODEL	AIRFLOW		CAPACITIES						ELECTRICAL				OUTSIDE AIR (CFM)	NOTES						
			COOLING		HEATING				STAGES	AFUE	STEADY STATE EFFICIENCY (%)	MOTOR HP	VOLTAGE	PHASE	MCA	MOP						
			CFM	EXTERNAL S.P. (INCHES W.G.)	TOTAL (MBH)	SENSIBLE (MBH)	ENTERING AIR TEMP. DB(°F)/WB(°F)	AMBIENT TEMP. (°F)														
RTU-1	YORK	ZF090N18D4A1AAA1A1	3000	0.6	94.7	67.7	80/67	92.8	11.0	-	180	144	2	-	80.0	3.00	460	3	19.6	20	750	-
RTU-2	YORK	ZF240N40D4A1AAA1A1	8000	1.0	265.3	191.0	80/67	92.8	10.0	-	400	320	2	-	80.0	7.5	460	3	54.3	70	2000	-
RTU-3	YORK	ZF300N40D4A1AAA1A1	10000	1.8	320.5	231.5	80/67	92.8	10.0	-	400	320	2	-	80.0	15.0	460	3	69.1	90	2500	-
RTU-3	YORK	ZF300N40D4A1AAA1A1	10000	1.8	320.5	231.5	80/67	92.8	10.0	-	400	320	2	-	80.0	15.0	460	3	69.1	90	2500	-

NOTES: 1.

HVAC GENERAL NOTES

1. UNLESS NOTED OTHERWISE, THIS CONTRACTOR SHALL PROVIDE AND INSTALL THE HVAC SYSTEMS COMPLETE. THE INSTALLATION SHALL INCLUDE, BUT NOT LIMITED TO, ALL DUCTWORK AND FITTINGS, EQUIPMENT, DIFFUSERS, SMOKE DETECTORS, THERMOSTATS AND 24 VAC WIRING, ROOF AND/OR WALL PENETRATIONS, TESTING AND BALANCING, ETC. CONTRACTOR SHALL COORDINATE PROVISIONS FOR PENETRATIONS IN BLOCK WALLS (I.E. SLEEVES, LINTELS, ETC.) WITH THE GENERAL CONTRACTOR.
2. THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND INSPECTIONS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES.
3. IT IS INTENDED THAT WORK COVERED BY SPECIFICATIONS AND DRAWINGS INCLUDES EVERYTHING REQUISITE AND NECESSARY TO MAKE VARIOUS SYSTEMS COMPLETE AND OPERATIVE, IRRESPECTIVE OF WHETHER OR NOT EVERY ITEM IS SPECIFICALLY NOTED. OMISSION OF DIRECT REFERENCE TO ANY ESSENTIAL ITEM SHALL NOT EXCUSE CONTRACTOR FROM COMPLYING WITH ABOVE INTENT.
4. THIS CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, PLUMBING, AND ELECTRICAL DRAWINGS TO AVOID INTERFERENCES AND CONFLICTS WITH OTHER TRADES. THIS CONTRACTOR WILL BE EXPECTED TO COVER ALL REWORK COSTS DUE TO LACK OF COORDINATION.
5. IN GENERAL, THE DRAWINGS SHOW THE DESIRED DUCT ROUTING LOCATION PLUS FITTINGS AND CONNECTIONS. THE DUCT AND ASSOCIATED EQUIPMENT CAN BE LOWERED OR RAISED AS NECESSARY TO ACCOMMODATE MINOR FIELD CONDITIONS. THE CONTRACTOR SHALL NOTE ALL CHANGES ON DRAWINGS AND RETURN MARKED UP DRAWINGS TO THE OWNER.
6. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND MAKE ADJUSTMENTS AS NECESSARY BEFORE BEGINNING WORK.
7. THE CONTRACTOR SHALL CONDUCT ALL OPERATIONS IN STRICT ACCORDANCE WITH SAFETY REQUIREMENTS IMPOSED BY THE OWNER AND OSHA.
8. THE CONTRACTOR SHALL KEEP WORK AREA CLEAN, REMOVE ALL DEBRIS FROM THE OWNER'S PROPERTY, AND DISPOSE OF SAME ACCORDING TO LOCAL REGULATIONS.
9. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE, AND REPAIR; MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS. CHANGES SHALL NOT BE MADE WITHOUT APPROVAL OF THE OWNER.
10. THE CONTRACTOR SHALL DEMONSTRATE OPERATION OF ALL SYSTEMS AND EQUIPMENT TO THE OWNER. THE OPERATING AND SERVICE MANUALS FOR ALL EQUIPMENT SHALL BE FURNISHED TO THE OWNER.
11. THE MECHANICAL CONTRACTOR SHALL PROVIDE FINAL HOOK-UP, PURGE AND LIGHTING OF ALL NATURAL GAS EQUIPMENT.
12. ALL DUCT SHALL BE CONSTRUCTED AND INSTALLED MEETING THE REQUIREMENTS OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE, LATEST EDITION, AND AS DESCRIBED BELOW.
 - a. HANGERS SHALL BE PROVIDED A MAXIMUM OF EVERY 8'-0", AT ROOF PENETRATIONS AND AT ALL ELBOWS. ALL DUCTWORK SHALL BE SELF-SUPPORTING AND NOT REQUIRE CONNECTING EQUIPMENT FOR SUPPORT.
 - b. ALIGN, ADJUST, AND LEVEL ALL DUCTWORK FOR SATISFACTORY OPERATION. IF A SLOPE IS SPECIFIED, ALIGN AND ADJUST TO MEET STATED REQUIREMENTS.
 - c. REINFORCE ALL DUCTS TO PREVENT BREATHING, VIBRATING, BUCKLING, OR UNNECESSARY NOISE AS REQUIRED TO SATISFY PROJECT REQUIREMENTS.
 - d. ALL DUCT AND PLENUM SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS, UNLESS NOTED OTHERWISE. IT IS ACCEPTABLE TO CHANGE DUCT SIZES WHEN THE CROSS-SECTIONAL AREA IS MAINTAINED.
 - e. THE INTERIOR OF ALL DUCTS AND PLENUMS SHALL BE SMOOTH AND FREE OF OBSTRUCTIONS, BURRS, AND SHARP EDGES.
 - f. ALL RECTANGULAR ELBOWS SHALL HAVE DOUBLE THICKNESS TURNING VENES, INCLUDING DISCHARGE AND RETURN PLENUM BRANCHES.
 - g. ALL CONCENTRIC TRANSITIONS SHALL HAVE A MAXIMUM TOTAL ANGLE OF 45° CONVERGING AND 30° DIVERGING FOR LARGEST DIMENSION.
 - h. ALL SHEET METAL DUCT JOINTS SHALL BE SEALED WITH AN APPROVED DUCT SEALANT.
 - i. ALL FLEXIBLE DUCT CONNECTIONS SHALL BE CAULKED AND SEALED AIR TIGHT USING A DRAW BAND. THE MAXIMUM LENGTH OF FLEXIBLE DUCT RUNS SHALL BE 6'-0". FLEXIBLE DUCT SHALL NOT HAVE MORE THAN AN AGGREGATE TOTAL OF 90° CHANGE IN DIRECTION, WITH A BEND NOT LESS THAN 1.5 DUCT DIAMETER CENTERLINE RADIUS.
 - j. ALL ROUND DUCT TAKE-OFFS SHALL HAVE SPIN-IN TYPE FITTINGS WITH BALANCING DAMPERS.
 - l. ALL AIR DEVICES SHALL BE CONNECTED WITH 3 DUCT DIAMETERS OF STRAIGHT DUCT. IN AREAS WHERE SPACE IS LIMITED A SHEET METAL ELBOW SHALL BE CONNECTED TO AIR DEVICE.
 - m. ALL NEW SHEET METAL DUCT TO BE ASTM A526 PRIME GALVANIZED SHEET METAL (SHEET AND STRIP) OF THE PROPER GAGE.
14. ALL INSIDE DUCT WITH EXTERNAL DUCT INSULATION SHALL BE 0.75 PCF DENSITY, 2" THICK WITH FSK FACE. THE INSULATING BLANKET SHALL HAVE A "U VALUE OF 0.29 BTUH-IN/SQ.FT.-°F AT 75°F MEAN TEMPERATURE DIFFERENCE AND A COMPOSITE FIRE AND SMOKE HAZARD RATING, AS TESTED BY PROCEDURE ASTM E-84, NFPA 256 AND UL 723, NOT EXCEEDING FLAME SPREAD 25 AND SMOKE DEVELOPED 50. DUCT INSULATION SHALL BE DUCT WRAP AS MANUFACTURED BY KNAUF OR APPROVED EQUAL. ALL INSULATION JOINTS SHALL BE TIGHTLY BUTTED AND COVERED WITH 4" WIDE X .0025" FOIL TAPE ADHERED WITH LAP SEAL ADHESIVE TO PROVIDE A COMPLETE VAPOR BARRIER ENVELOPE.
15. ALL FLEXIBLE DUCT SHALL BE A FACTORY PRE-INSULATED DUCT COMPOSED OF A CORROSION RESISTANT REINFORCING WIRE HELIX PERMANENTLY BONDED TO A BLACK CPE CORE, COVERED WITH A 1" THICK FIBERGLAS INSULATING BLANKET, AND SHEATHED WITH AN OUTER MOISTURE BARRIER OF A BI-DIRECTIONAL REINFORCED METALIZED POLYESTER FILM, LAMINATED TO GLASS MESH, ELASTOMER BACK-COATED. THE INSULATING BLANKET SHALL HAVE A "U VALUE OF 0.24 BTUH-IN/SQ.FT.-°F AT 75°F MEAN TEMPERATURE DIFFERENCE. THE DUCT SHALL COMPLY WITH THE LATEST NFPA BULLETIN 90A AND SHALL BE LISTED AS A CLASS 1 AIR DUCT MATERIAL, UL STANDARD 181. THE FLEXIBLE DUCT SHALL BE THERMAFLEX M-KS OR APPROVED EQUAL.
16. THE EQUIPMENT AND MATERIALS SPECIFIED ON THE DRAWINGS ESTABLISH THE MINIMUM STANDARDS AND BASIS FOR THE BID. ALTERNATE MANUFACTURERS AND METHODS MUST BE APPROVED PRIOR TO SUBMISSION OF BID.

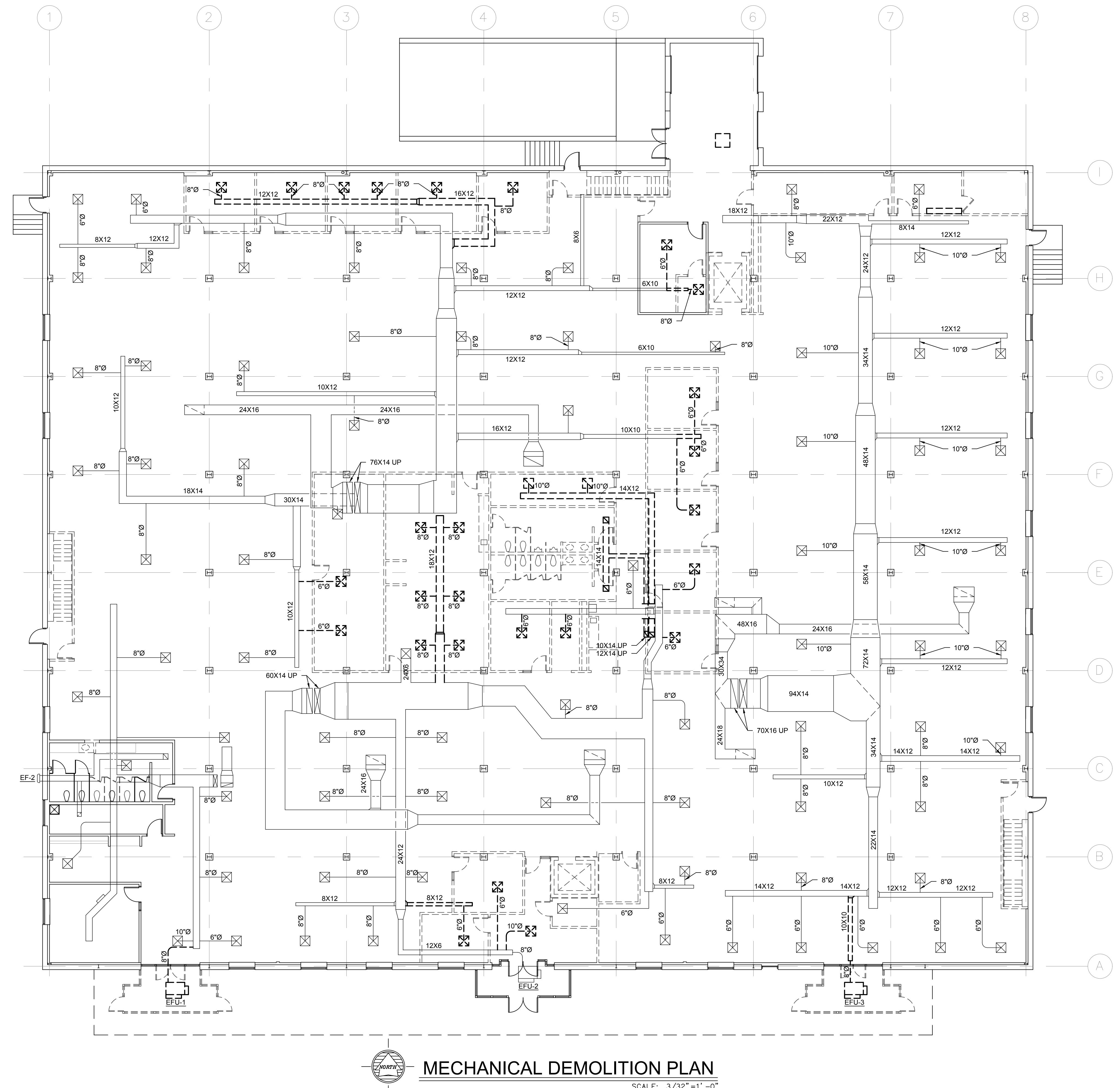
DATE	DESCRIPTION
10/27/2017	
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PROJECT NO.	16394A
PROJECT TITLE	TENANT SPACE
DWG. TITLE	GENERAL NOTES AND SCHEDULES
DWG. NO.	M.001

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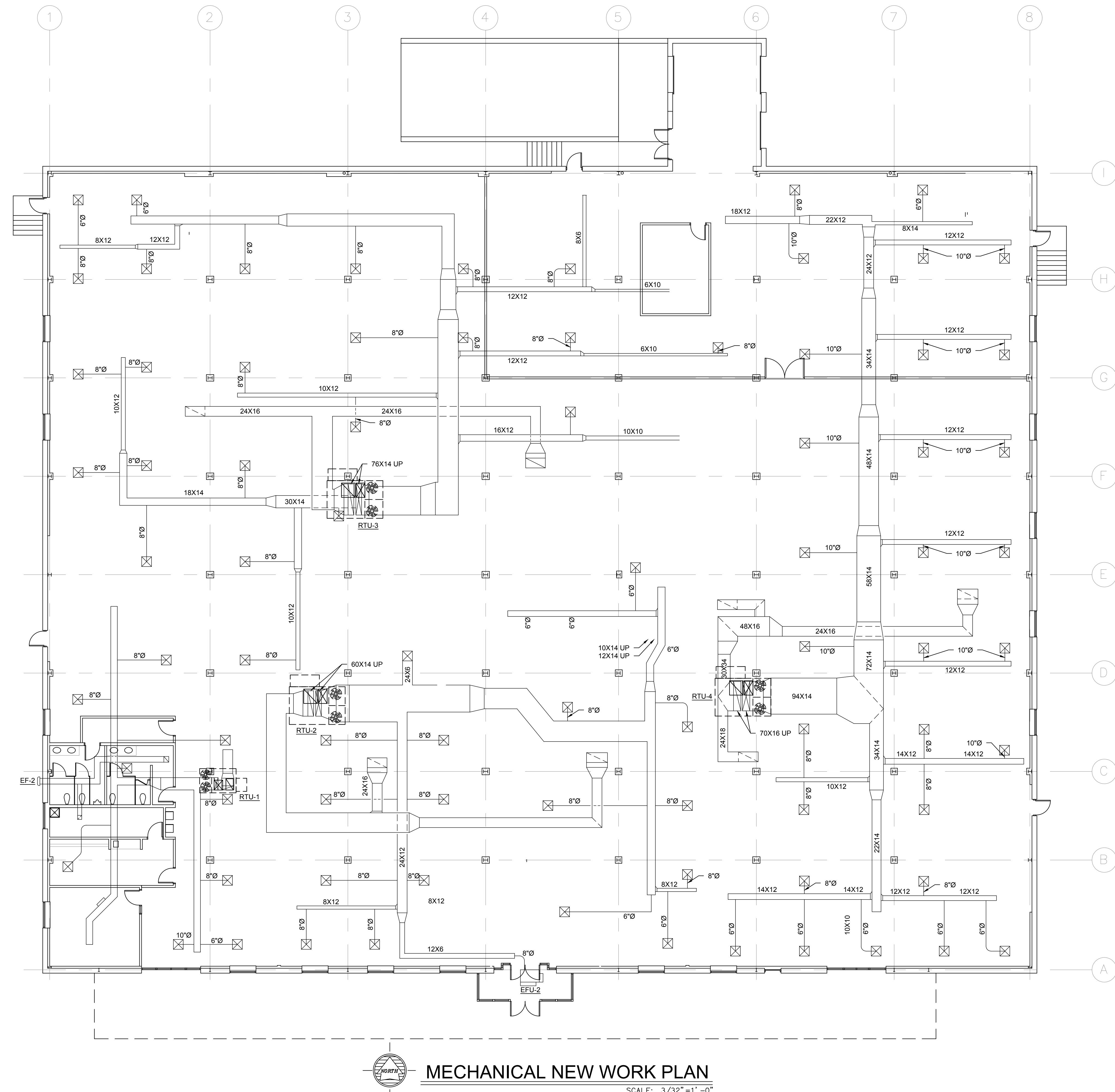


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NUMBER. 16394A

PROPOSED ALTERATIONS TO
EXISTING BUILDING SHELL LOCATED AT
8336 SPRINGBORO PIKE
MIAMI TOWNSHIP,
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PROJECT NO.
16394A
PROJECT TITLE
TENANT
SPACE

DWG. TITLE
MECHANICAL
NEW WORK
PLAN
DWG. NO.
M.102

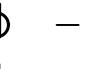
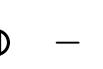
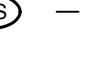
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EXCEPT AS PROVIDED FOR IN THE CONTRACT FOR WHICH IT WAS PREPARED.

ELECTRICAL SPECIFICATIONS:

- ELECTRICAL CONTRACTOR SHALL SECURE ALL ELECTRICAL PERMITS AS REQUIRED, MAKE ALL NECESSARY APPLICATIONS AND COORDINATE WORK WITH THE LOCAL ELECTRICAL UTILITY COMPANY, INCLUDING METER INSTALLATION, SERVICE ENTRANCE, ETC. FOR A COMPLETE ELECTRICAL INSTALLATION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL STATE AND NATIONAL CODES, WHERE THERE IS A CONFLICT, THE MOST STRINGENT SHALL APPLY.
- ELECTRICAL CONTRACTOR SHALL VISIT SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND WORK TO BE DONE. ELECTRICAL CONTRACTOR SHALL CAREFULLY CHECK PLANS OF ALL DISCIPLINES; THESE ELECTRICAL DRAWINGS ARE TO BE USED AS A GUIDE. ELECTRICAL CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR A COMPLETE AND FUNCTIONING SYSTEM.
- ALL ITEMS SHALL BE NEW UNLESS OTHERWISE NOTED. PROVIDE PRODUCTS LISTED AND LABELED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE INDICATED.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, DETAILS AND DESIGN. EQUIPMENT CALLED OUT BY CERTAIN MANUFACTURERS IS INTENDED TO CREATE A STANDARD. EQUALS WILL BE ACCEPTED UPON APPROVAL.
- THE CONTRACTOR SHALL PREPARE OR OBTAIN FROM THE MANUFACTURER SHOP DRAWINGS OF ALL ITEMS OF EQUIPMENT TO BE FURNISHED AND SUBMIT SIX (6) COPIES TO THE ARCHITECT AND/OR ENGINEER FOR APPROVAL BEFORE PROCEEDING WITH INSTALLATION OR CONSTRUCTION. THESE DRAWINGS SHALL BE COMPLETE IN EVERY RESPECT, SHOWING PERTINENT DETAILS OF SIZE, CAPACITIES, ARRANGEMENTS, FITTINGS, PIPING, KINDS AND THICKNESS OF MATERIALS, WEIGHT, LOADING REQUIRED, CLEARANCES FOR SERVICE, MAINTENANCE, ETC. AS A MINIMUM, THE SHOP DRAWINGS EXPECTED ARE AS FOLLOWS:
 - LIGHTING CONTROL DEVICES
 - DISCONNECTS
- CONDUCTORS:**
 - COORDINATE SIZES OF RACEWAYS, BOXES, AND EQUIPMENT ENCLOSURES WITH THE ACTUAL CONDUCTORS TO BE INSTALLED, INCLUDING ADJUSTMENTS FOR CONDUCTOR SIZES INCREASED FOR VOLTAGE DROP.
 - UNLESS DIMENSIONED, CIRCUIT ROUTING INDICATED IS DIAGRAMMATIC. WHEN CIRCUIT DESTINATION IS INDICATED AND ROUTING IS NOT SHOWN, DETERMINE EXACT ROUTING REQUIRED.
 - SECURE AND SUPPORT CONDUCTORS AND CABLES IN ACCORDANCE WITH NFPA 70 USING SUITABLE SUPPORTS AND METHODS APPROVED BY THE AUTHORITY HAVING JURISDICTION. PROVIDE INDEPENDENT SUPPORT FROM BUILDING STRUCTURE. DO NOT PROVIDE SUPPORT FROM RACEWAYS, PIPING, DUCTWORK, OR OTHER SYSTEMS.
 - UNLESS SPECIFICALLY INDICATED TO BE EXCLUDED, PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT AND DEVICES, INCLUDING THOSE FURNISHED BY OTHERS, AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.
 - PROVIDE COPPER CONDUCTORS EXCEPT WHERE ALUMINUM CONDUCTORS ARE SPECIFICALLY INDICATED OR PERMITTED FOR SUBSTITUTION. CONDUCTOR SIZES INDICATED ARE BASED ON COPPER UNLESS SPECIFICALLY INDICATED AS ALUMINUM. CONDUCTORS DESIGNATED WITH THE ABBREVIATION "AL" INDICATE ALUMINUM.
 - SUBSTITUTION OF ALUMINUM CONDUCTORS FOR COPPER IS PERMITTED ONLY FOR THE FOLLOWING:
 - SERVICES: COPPER CONDUCTORS SIZE 1/0 AWG AND LARGER
 - FEEDERS: COPPER CONDUCTORS SIZE 1/0 AWG AND LARGER
 - WHERE ALUMINUM CONDUCTORS ARE SUBSTITUTED FOR COPPER, COMPLY WITH THE FOLLOWING:
 - SIZE ALUMINUM CONDUCTORS TO PROVIDE, WHEN COMPARED TO COPPER SIZES INDICATED, EQUIVALENT OR GREATER AMPLICITY AND EQUIVALENT OR LESS VOLTAGE DROP.
 - INCREASE SIZE OF RACEWAYS, BOXES, WIRING GUTTERS, ENCLOSURES, ETC. AS REQUIRED TO ACCOMMODATE ALUMINUM CONDUCTORS.
 - EQUIP ELECTRICAL DISTRIBUTION EQUIPMENT WITH COMPRESSION LUGS FOR TERMINATING ALUMINUM CONDUCTORS.
 - MINIMUM CONDUCTOR SIZE FOR BRANCH CIRCUITS IS 12 AWG.
 - EXCEPTIONS:
 - 20 A. 120 V CIRCUITS LONGER THAN 75 FEET (23 M): 10 AWG, FOR VOLTAGE DROP.
 - 20 A. 120 V CIRCUITS LONGER THAN 150 FEET (46 M): 8 AWG, FOR VOLTAGE DROP.
 - 20 A. 277 V CIRCUITS LONGER THAN 150 FEET (46 M): 10 AWG, FOR VOLTAGE DROP.
 - WHERE CONDUCTOR SIZE IS NOT INDICATED, SIZE TO COMPLY WITH NFPA 70 BUT NOT LESS THAN APPLICABLE MINIMUM SIZE REQUIREMENTS SPECIFIED.
 - COLOR CODE CONDUCTORS AS INDICATED UNLESS OTHERWISE REQUIRED BY THE AUTHORITY HAVING JURISDICTION, MAINTAIN CONSISTENT COLOR CODING THROUGHOUT PROJECT.
 - COLOR CODE:
 - 480Y/277 V, 3 PHASE, 4 WIRE SYSTEM:
 - PHASE A: BROWN
 - PHASE B: ORANGE
 - PHASE C: YELLOW
 - NEUTRAL/GROUNDED: GRAY
 - 208Y/120 V, 3 PHASE, 4 WIRE SYSTEM:
 - PHASE A: BLACK
 - PHASE B: RED
 - PHASE C: BLUE
 - NEUTRAL/GROUNDED: WHITE
 - EQUIPMENT GROUND, ALL SYSTEMS: GREEN
 - FOR MODIFICATIONS OR ADDITIONS TO EXISTING WIRING SYSTEMS, COMPLY WITH EXISTING COLOR CODE WHEN EXISTING CODE COMPLIES WITH NFPA 70 AND IS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
 - GROUNDING:**
 - CONFORM TO REQUIREMENTS OF NFPA 70.
 - UNLESS SPECIFICALLY INDICATED TO BE EXCLUDED, PROVIDE ALL REQUIRED COMPONENTS, CONDUCTORS, CONNECTORS, CONDUIT, BOXES, FITTINGS, SUPPORTS, ACCESSORIES, ETC. AS NECESSARY FOR A COMPLETE GROUNDING AND BONDING SYSTEM.

LEGEND:

 \$ NEW ITEM TO BE INSTALLED.
 \$ EXISTING ITEM TO REMAIN.
 \$ EXISTING ITEM TO BE DEMOLISHED.
 L LIGHT FIXTURE ON EMERGENCY LIGHTING CIRCUIT WITH BATTERY BACK-UP BALLAST.
 E/R EXISTING TO BE RELOCATED
 — SWITC LEG WIRING
 A-1 CIRCUIT HOME RUN, LABEL INDICATES PANEL AND CIRCUIT NUMBER.
 GFCI \$ NEMA 5-20R, 20A, 125V AC STRAIGHT BLADE DUPLEX RECEPTACLE.
 GFCI \$ NEMA 5-20R, 20A, 125V AC STRAIGHT BLADE DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION.
 \$ CEILING MOUNTED NEMA 5-20R, 20A, 125V AC STRAIGHT BLADE DUPLEX RECEPTACLE.
 \$ JUNCTION BOX.
 \$ SINGLE-POLE TOGGLE SWITCH, 120V, 20A, WITH WALL PLATE.
 OS \$ WALL OR CEILING MOUNTED OCCUPANCY SENSOR, WATT STOPPER #DT-200 OR APPROVED EQUAL, DUAL TECHNOLOGY, LOW VOLTAGE SENSOR, WITH ALL ASSOCIATED POWER PACKS TO ACHIEVE CONTROL AS INDICATED. SENSOR SHALL OPERATE IN "MANUAL ON" MODE WHEN SHOWN WITH LOW-VOLTAGE SWITCHING.
 \$ EXIT SIGN LED, STENCIL FACED, WHITE WITH RED LETTERING, EMERGENCY BATTERY BACK-UP WITH TWO EMERGENCY LIGHTS. SHADED QUADRANT INDICATES DIRECTION OF EGRESS.
 \$ EXIT SIGN LED, STENCIL FACED, WHITE WITH RED LETTERING, EMERGENCY BATTERY BACK-UP. SHADED QUADRANT INDICATES DIRECTION OF EGRESS.
 \$ EMERGENCY BATTERY BACK-UP WITH TWO EMERGENCY LIGHTS. WHERE INSTALLED IN EXTERIOR APPLICATIONS, PROVIDE BATTERY UNIT MOUNTED HIGH ON INTERIOR WALL WITH TWO REMOTE HEADS RATED FOR EXTERIOR USE.

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PROPOSED ALTERATIONS TO
 EXISTING BUILDING SHELL LOCATED AT
 8336 SPRINGBORO PIKE
 MIAMI TOWNSHIP,
 MONTGOMERY COUNTY, OHIO 45342

PROJECT NO.
16394A

PROJECT TITLE
TENANT
SPACE

DWG. TITLE
LEGEND
&
SPECs

DWG. NO.

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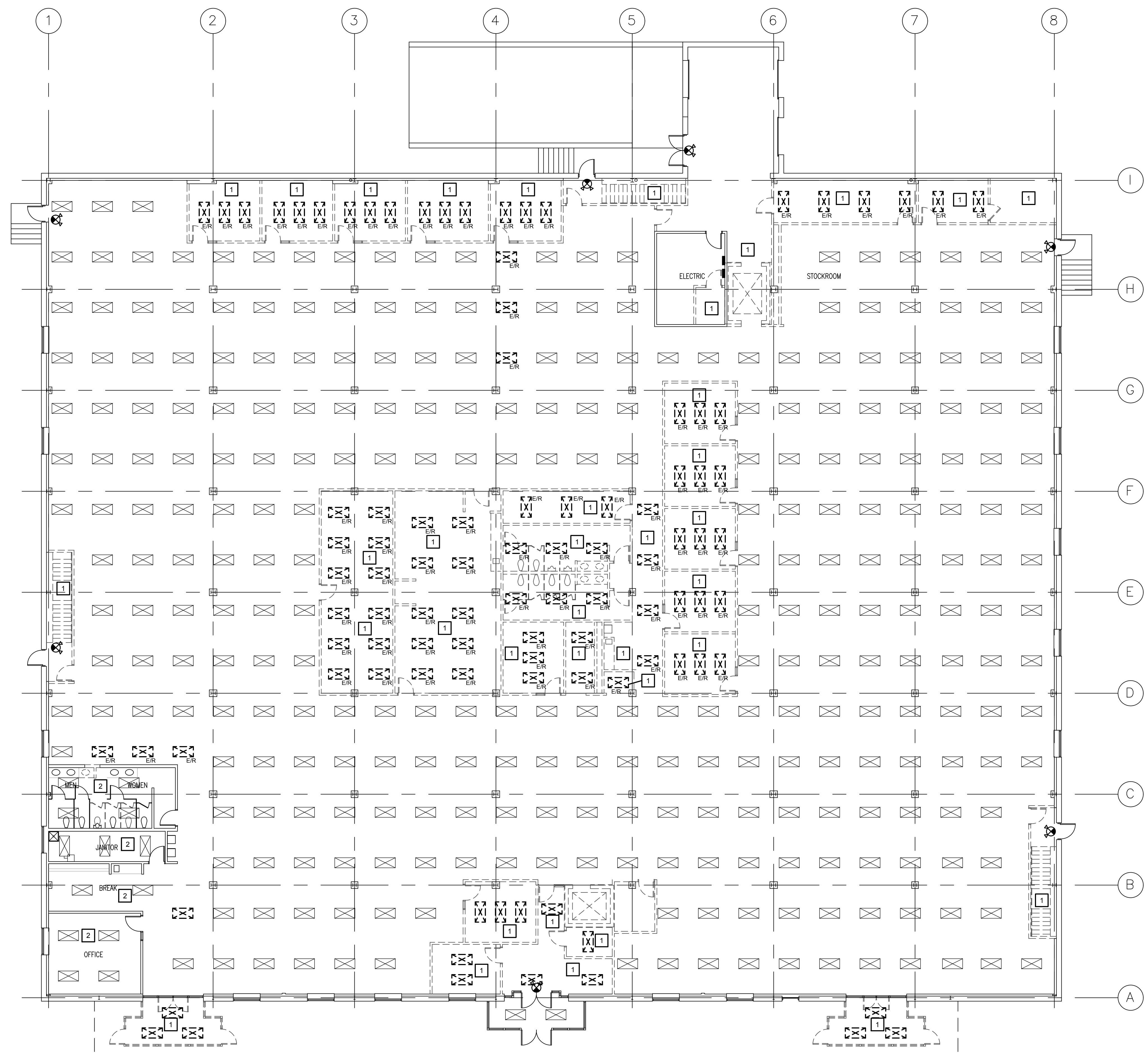


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JOB NUMBER: 16394A

E. 001



GENERAL ELECTRICAL DEMO NOTES:

- EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL GOVERN.
- ALL CONDUITS SERVING OTHER SPACES OR FLOORS, THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION SO AS NOT TO CAUSE ANY DISRUPTION TO THESE OTHER SPACES.
- ALL CEILING MOUNTED DEVICES NOT SPECIFICALLY INDICATED IN THE PROJECT AREA SHALL BE REMOVED AND REINSTALLED TO FACILITATE INSTALLATION OF NEW CEILINGS/LIGHT FIXTURES.
- ALL CONDUIT, WIRING, BOXES, AND RACEWAY THAT IS NOT BEING REUSED SHALL BE REMOVED BACK TO PANEL FROM WHERE IT ORIGINATES.
- DEMOLISH ALL EXISTING PANELBOARDS INDICATED ON THE SINGLELINE DIAGRAM.
- CONTRACTOR SHALL TEST AND VERIFY ALL EXISTING LIGHT FIXTURES ARE IN PROPER WORKING ORDER. CONTRACTOR SHALL REPLACE LAMPS AND BALLASTS AS NECESSARY, INCLUDE EXIT AND EGRESS BATTERY BACK-UP FIXTURES.

ELECTRICAL DEMOLITION NOTES:

- DEMOLISH EXISTING LIGHTING FIXTURES, LIGHTING SWITCHES AND RECEPTACLES IN THIS SPACE. RELOCATE EXISTING LIGHTING FIXTURES AS INDICATED ON NEW WORK PLANS. CLEAN, AND TEST FIXTURES PRIOR TO RELOCATION. REPLACE LAMPS AND BALLASTS AS NECESSARY TO ENSURE ALL FIXTURES ARE IN PROPER WORKING ORDER UPON INSTALLATION. ANY UNUSED LIGHTING FIXTURES SHALL BE TURNED OVER TO THE OWNER.
- DEMOLISH EXISTING LIGHTING SWITCHES AND RECEPTACLES IN THIS SPACE.

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PROJECT NO.
16394A

PROJECT TITLE

TENANT
SPACE

DWG. TITLE
ELECTRICAL
DEMOLITION
PLAN

DWG. NO.

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