

Door Types

- EXISTING 3'-0" x 7'-0" MEANS OF EGRESS DOOR & FRAME TO REMAIN. EXISTING HARDWARE TO REMAIN. PREPARE DOOR FOR NEW TENANT LOCKING SYSTEM.
- EXISTING 3'-0" x 7'-0" DOOR TO REMAIN. CONTRACTOR TO VERIFY EXISTING HARDWARE & OPERATION OF DOOR & REPLACE AS REQUIRED.
- EXISTING 3'-0" x 7'-0" RELOCATED DOOR & FRAME. CONTRACTOR TO VERIFY EXISTING HARDWARE & OPERATION OF DOOR & REPLACE AS REQUIRED.
- NEW 6'-0" x 7'-0" DUAL-SWINGING DOUBLE DOOR, PROVIDED BY TENANT & INSTALLED BY CONTRACTOR. TRAFFIC DOOR TO HAVE BUMPERS & SELF-CLOSING HINGES.
- EXISTING 6'-0" x 7'-0" DOORS & FRAME TO REMAIN. EXISTING HARDWARE TO REMAIN. PREPARE DOORS FOR NEW TENANT LOCKING SYSTEM.
- EXISTING SECTIONAL OVERHEAD DOORS & HARDWARE TO REMAIN. PREPARE DOORS FOR NEW TENANT LOCKING SYSTEM.

Door Notes

- DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE A MAXIMUM OF 48" ABOVE FINISHED FLOOR. THE OPERATING DEVICES SHALL BE CAPABLE OF OPERATION WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE PER OBC 1008.1.9.1.
- ALL MEANS OF EGRESS DOORS SHALL BE READILY OPENABLE FROM THE SIDE WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF KEY OR SPECIAL KNOWLEDGE OR EFFORT PER OBC 1008.1.9.
- ALL GLAZING IN SWINGING DOORS AND IN SIDELITES ON STRIKE SIDE OF SWINGING DOORS SHALL BE SAFETY GLAZING COMPLYING WITH APPLICABLE REQUIREMENTS OF OBC SECTION 2406.

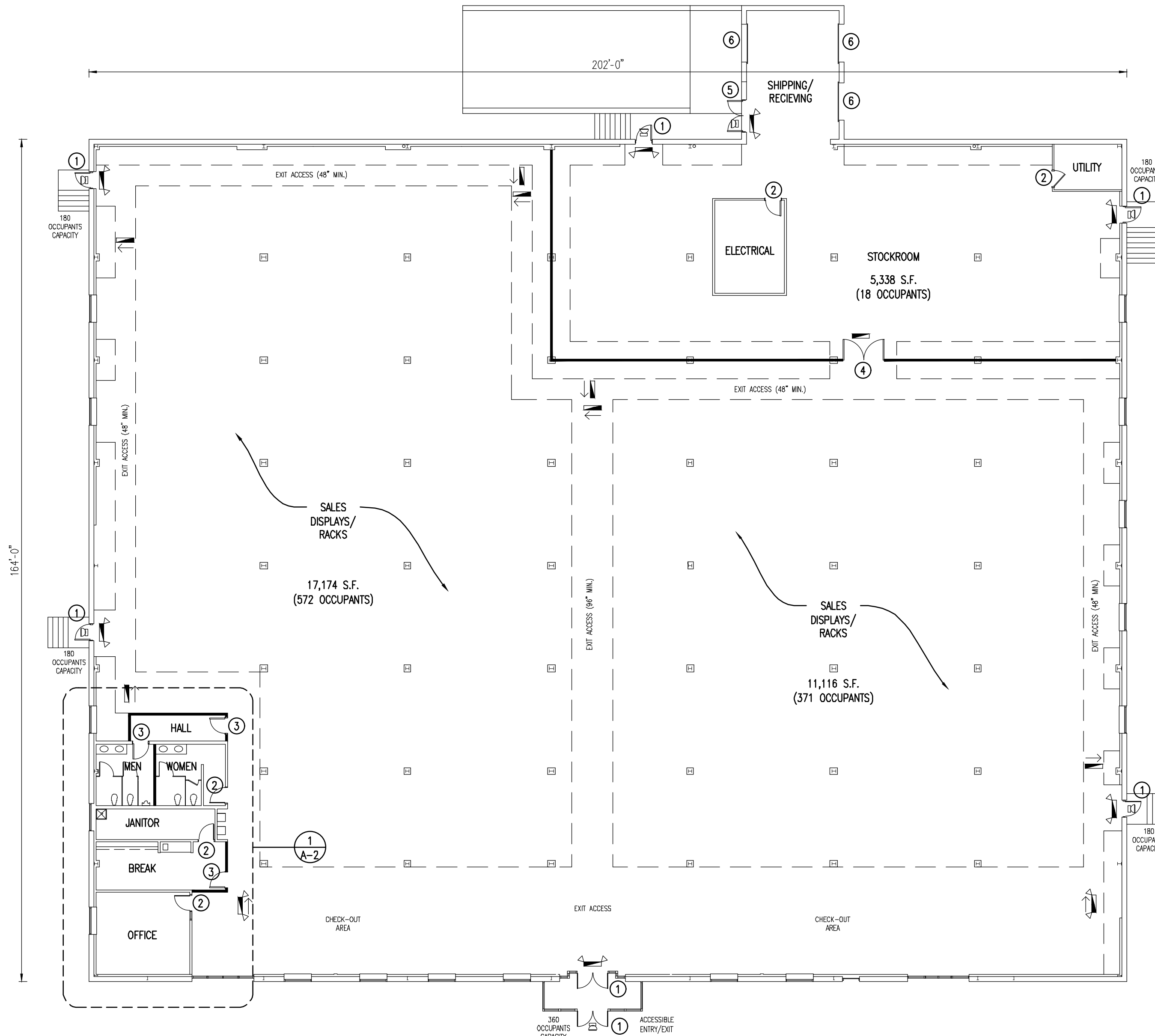
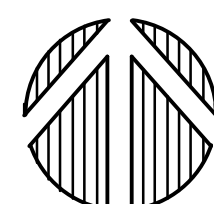
Finish Notes

- INTERIOR FINISH OF WALLS AND CEILINGS SHALL HAVE A FLAME SPREAD RATING NOT GREATER THAN THAT DESIGNATED CLASS B IN CORRIDORS AND ROOMS OPEN TO CORRIDORS AND CLASS C IN ROOMS PER OBC TABLE 803.9.
- ALL FLOOR FINISHES TO COMPLY WITH DOC FF-1 "PILL TEST" PER OBC 804.4.1.
- ALL FLOORS OF CORRIDORS AND LINES OF MEANS OF EGRESS SHALL HAVE A SLIP-RESISTANT SURFACE PER OBC 1003.4.
- PROVIDE SAFETY GLAZING IN ACCORDANCE WITH OBC 2406.1 THRU 2406.3 IN LOCATIONS SPECIFIED IN OBC 2406.4.
- CONTRACTOR SHALL FINISH ALL SURFACES PER TENANT'S REQUIREMENTS: FLOOR FINISHES, BASE, PAINT, & CEILING SHALL ALL BE COORDINATED WITH TENANT'S REPRESENTATIVE.

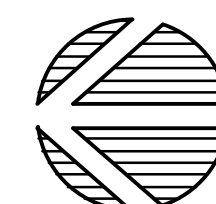
PROPOSED INTERIOR ALTERATIONS FOR BARGAIN HUNT LOCATED AT 7336 SPRINGBORO PIKE MIAMI TOWNSHIP, MONTGOMERY COUNTY, OHIO 45342



SITE PLAN
N.T.S.



PROPOSED FLOOR PLAN
1/16" = 1'-0"



Code Notes

- USE & OCCUPANCY:**
- M - MERCANTILE (DEPARTMENT/RETAIL STORE W/ STOCK AREA) COMPUTER SALES.
- GENERAL BUILDING HEIGHTS & AREAS:**
- EXISTING BUILDING IS 1 STORY, 33,628 S.F., TYPE 2B CONSTRUCTION.
 - ALLOWABLE AREA: 2 STORIES, 12,500 S.F.
 - BUILDING AREA INCREASE IS ALLOWED DUE TO AUTOMATIC FIRE SUPPRESSION SYSTEM IN THE BUILDING.
 - 12,500 S.F. x 200% + 12,500 S.F. = 37,500 S.F. ALLOWABLE AREA.
 - THE ADVANTAGE OF STREET FRONTAGE INCREASE CAN ALSO BE USED HOWEVER IS NOT CALCULATED FOR THIS APPLICATION. SPRINKLER BRINGS THE BUILDING INTO HEIGHT & AREA COMPLIANCE WITHOUT STREET FRONTAGE.

- TYPE OF CONSTRUCTION:**
- FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:
 - PRIMARY FRAME: 0 HOUR RATING
 - BEARING WALLS: 0 HOUR RATING
 - EXTERIOR: 0 HOUR RATING
 - INTERIOR: 0 HOUR RATING
 - NONBEARING WALLS: 0 HOUR RATING
 - EXTERIOR: 0 HOUR RATING
 - INTERIOR: 0 HOUR RATING
 - FLOOR CONSTRUCTION: 0 HOUR RATING
 - ROOF CONSTRUCTION: 0 HOUR RATING

- FIRE PROTECTION SYSTEMS:**
- BUILDING IS PROVIDED WITH AN AUTOMATIC FIRE SUPPRESSION SYSTEM. MODIFICATIONS OF SPRINKLER SYSTEM SHALL BE DESIGNED BY CERTIFIED SPRINKLER DESIGNER AND DEMOLISHED/INSTALLED BY CERTIFIED SPRINKLER CONTRACTOR.
 - FIRE ALARM IS REQUIRED IN MERCANTILE SPACES WITH OCCUPANT LOAD GREATER THAN 500. FIRE ALARM SYSTEM DESIGN AND INSTALLATION SHALL BE COMPLETED BY CERTIFIED FIRE ALARM DESIGNERS/CONTRACTORS.

- MEANS OF EGRESS:**
- OCCUPANT LOAD:
 - MERCANTILE, GRADE FLOOR AREAS: 30 GROSS S.F./ OCCUPANT/ 28,292 S.F. = 943 OCCUPANTS
 - STORAGE, STOCK, SHIPPING AREAS: 5,336 S.F./300 = 18 OCCUPANTS
 - TOTAL OCCUPANT LOAD = 961 OCCUPANTS
 - EGRESS WIDTH FOR DOORS & AREAS PROVIDING EGRESS ARE SHOWN ON THE FLOOR PLAN AND ARE BASED ON OCCUPANT LOAD CAPACITY THE EXIT WILL PROVIDE FOR USING A FACTOR OF 2 INCHES PER OCCUPANT.
 - MEANS OF EGRESS ILLUMINATION: SEE FLOOR PLAN FOR EMERGENCY LIGHTS TIED TO EXISTING BATTERY BACK-UP & LIGHTING SYSTEM.
 - ACCESSIBLE MEANS OF EGRESS: ACCESSIBLE ENTRIES ARE PROVIDED. ACCESSIBLE AISLES TO BE PROVIDED THROUGHOUT SPACE. SIGNAGE SHALL BE PROVIDED TO IDENTIFY ACCESSIBLE EXITS.
 - SEE DOOR SCHEDULE NOTES ON PLANS FOR EXISTING DOOR HARDWARE AND NEW HARDWARE.
 - SEE EXIT SIGN DESIGNATIONS ON FLOOR PLAN.
 - EXIT ACCESS IS SHOWN ON FLOOR PLAN.
 - EXIT ACCESS TRAVEL DISTANCE TO AN EXIT SHALL NOT EXCEED 250 FEET.
 - SEE AISLE LAYOUT FOR THE SALES FLOOR AND STOCK AREA.
 - NUMBER OF REQUIRED EXITS BASED ON OCCUPANT LOAD ARE (3) THREE. (8) EIGHT EXITS ARE PROVIDED FOR THE SPACES IN THE BUILDING. SEE FLOOR PLAN FOR EXIT LOCATIONS, AISLES (WIDTHS), ILLUMINATION, AND EXIT LIGHTS.
 - EXIT DISCHARGE SHALL REMAIN. CONTRACTOR TO VERIFY PROPER OPERATION OF EXISTING EXIT DISCHARGE LIGHTING.

- ACCESSIBILITY:**
- EXISTING PARKING IS PROVIDED WITH VAN ACCESSIBLE AND COMMON ACCESSIBLE PARKING SPACES AND LOADING ZONES.
 - ACCESSIBLE ROUTES ARE PROVIDED TO THE BUILDING.
 - ENTRANCES PROVIDE PROPER DOOR WIDTHS, CLEARANCES, & HARDWARE FOR ACCESSIBILITY.
 - ACCESSIBLE ROUTES ARE PROVIDED THROUGHOUT THE SPACES TO ALL MAJOR FUNCTIONS.
 - ACCESSIBLE RESTROOMS ARE PROVIDED. EXISTING RESTROOM SHAL BE ALTERED TO PROVIDE FULL ACCESSIBILITY. SEE ENLARGED RESTROOM PLANS AND INTERIOR ELEVATIONS.

- PLUMBING SYSTEMS:**
- PLUMBING FIXTURES REQUIRED:
 - FEMALES: 1 W.C. PER 500 OCCUPANTS - 2 PROVIDED
 - MALES: 1 W.C. PER 500 OCCUPANTS - 2 PROVIDED
 - 1 W.C. LAVATORY PER 750 OCCUPANTS - 2 PROVIDED
 - 1 DRINKING FOUNTAIN (HIGH/LOW ACCESSIBLE) IS PROVIDED
 - 1 SERVICE SINK IS PROVIDED

Legend

- EXISTING TO REMAIN
- NEW 3 5/8" METAL STUDS @ 16" O.C. W/ 1/2" GYP. BOARD EA. SIDE. CONSTRUCT THRU EXISTING CEILING GRID ABOVE.

Egress Legend

- NEW/EXISTING/RELOCATED ILLUMINATED EXIT LIGHT, 1-SIDED W/ MEANS OF EGRESS LIGHTING
- NEW/EXISTING/RELOCATED REMOTE HEAD EMERGENCY DISCHARGE LIGHT W/ BATTERY BACKUP

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

PROJECT NO.

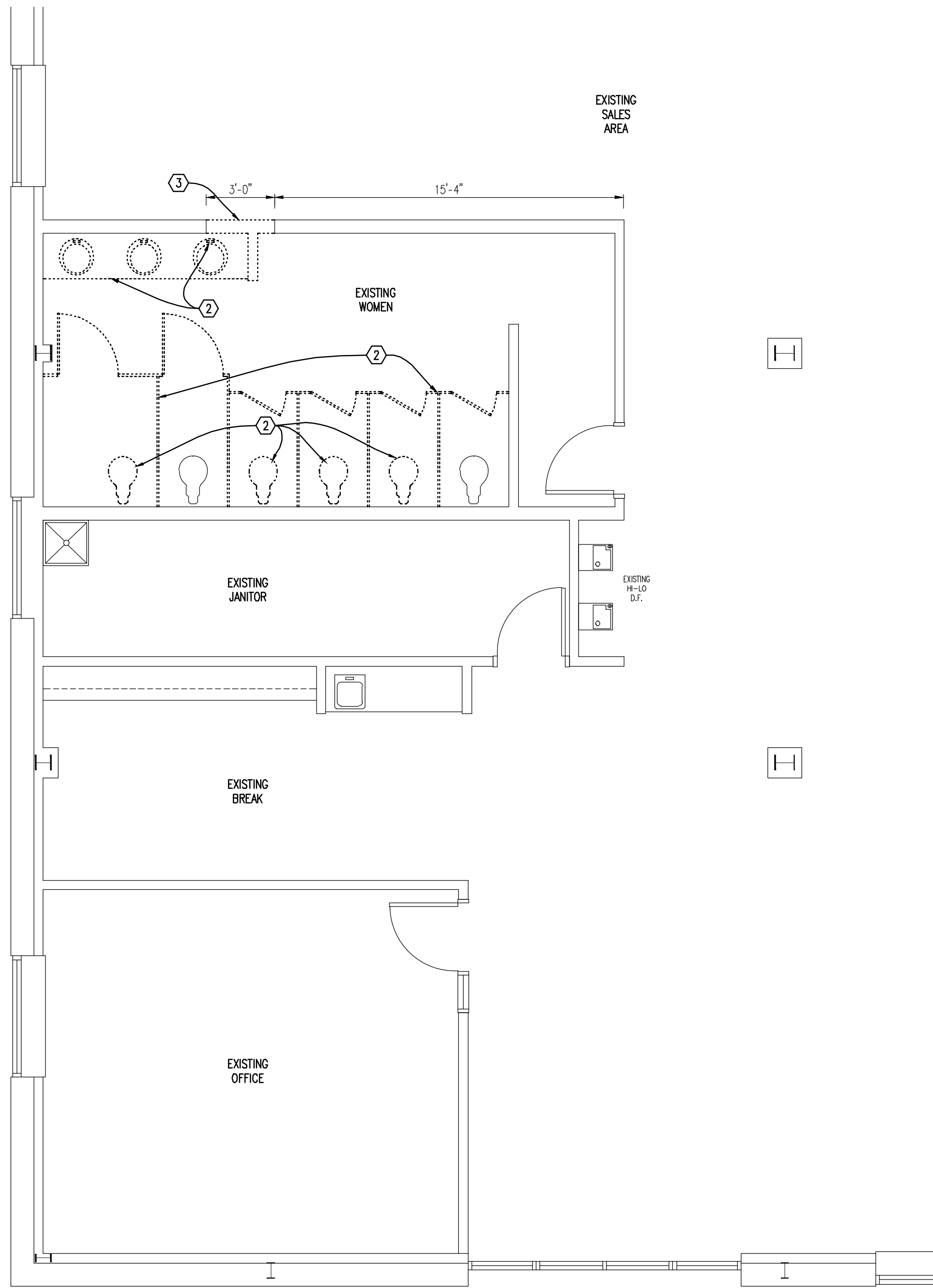
PROJECT TITLE

BARGAIN
HUNT

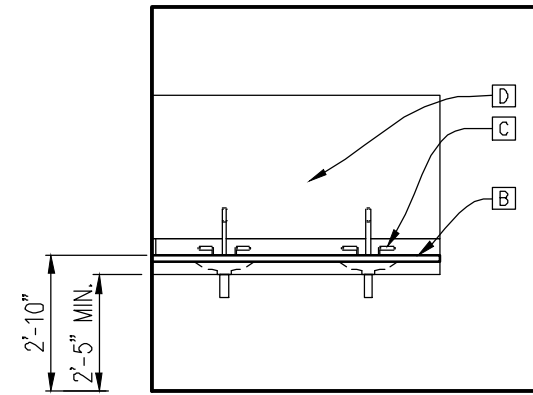
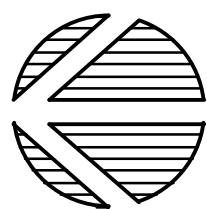
DWG. TITLE
SITE &
BUILDING
PLANS

DWG. NO.

A-1

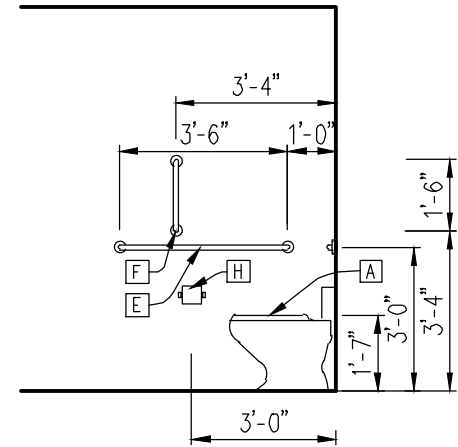


DEMOLITION PLAN
1/4" = 1'-0"



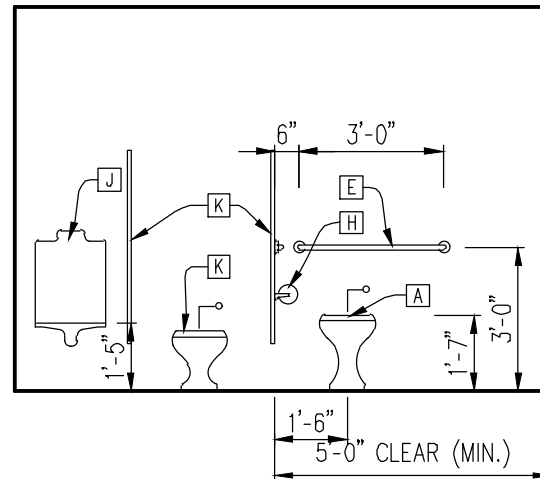
LAVATORY TYP.
1/4" = 1'-0"

D



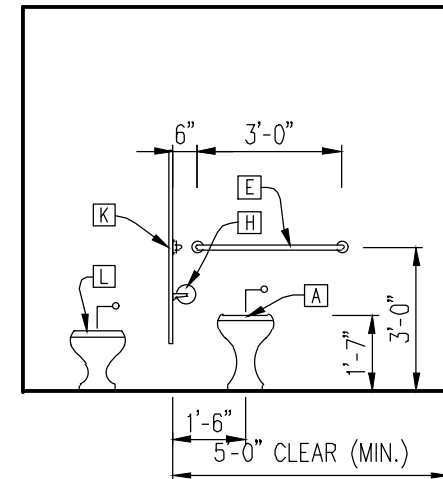
GRAB BAR TYP.
1/4" = 1'-0"

C



MEN
1/4" = 1'-0"

B



WOMEN
1/4" = 1'-0"

A

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" H.; 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.

Construction Notes

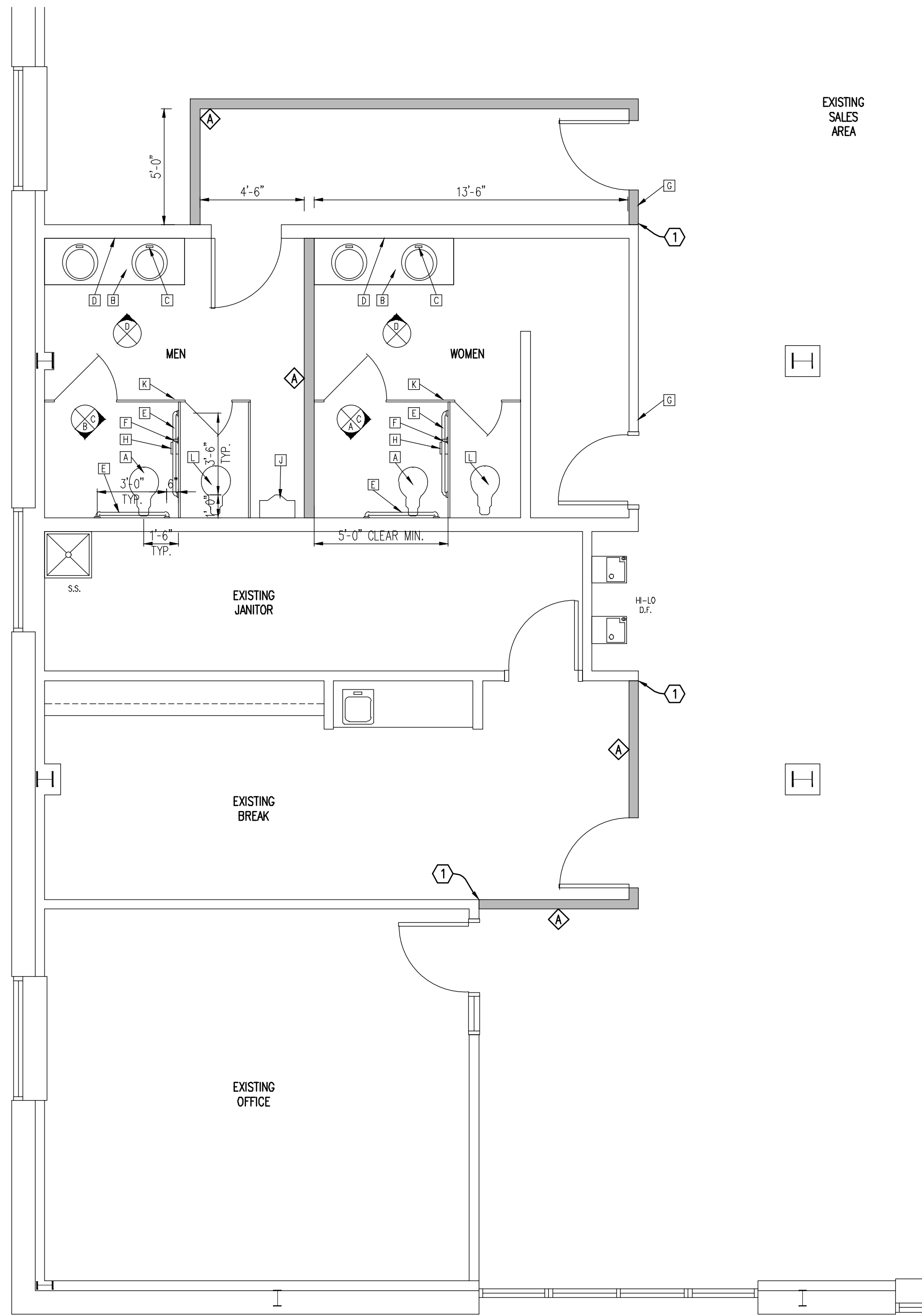
- 1. ALIGN NEW CONSTRUCTION W/ EXISTING SURFACE.
- 2. REMOVE EXISTING TOILET PARTITIONS, PLUMBING FIXTURES, MILLWORK & ACCESSORIES.
- 3. REMOVE MATERIALS TO CREATE NEW OPENING FOR DOOR PER FLOOR PLAN.

Legend

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

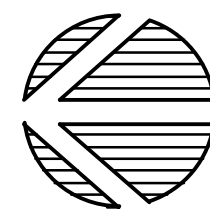
Partition Types

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



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

1



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

PROJECT NO.

PROJECT TITLE

BARGAIN
HUNT

DWG. TITLE

FLOOR PLAN

DWG. NO.

A-2




1. THIS CONTRACTOR SHALL INSTALL GAS PIPING IN ACCORDANCE WITH INTERNATIONAL FUEL GAS CODE (LATEST EDITION).

- 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.

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.

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.



PROJECT TITLE

DMC	TITLE
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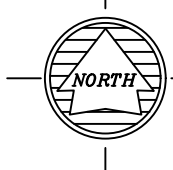
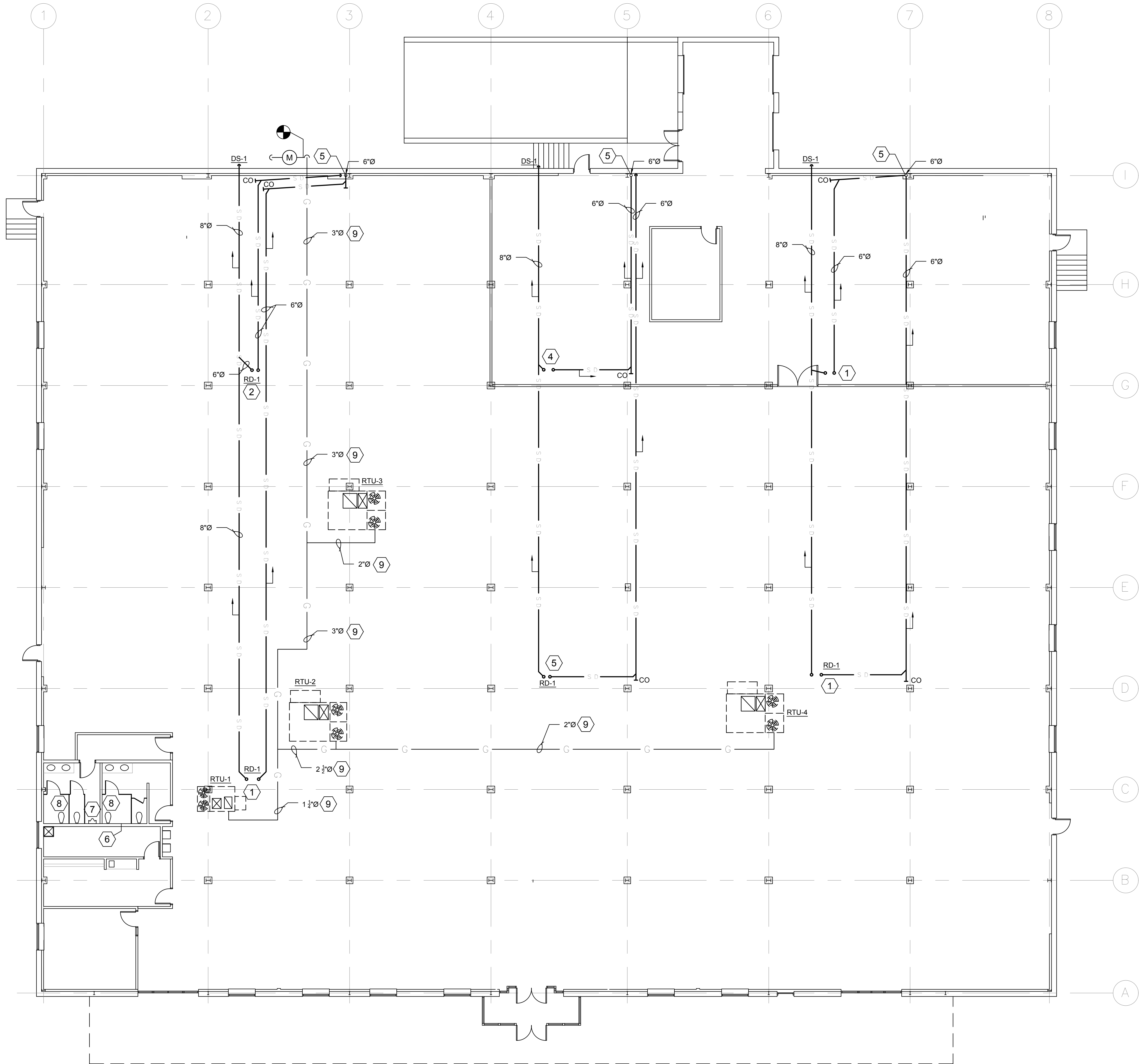


TRI-TECH
Built On Integrity

JOB NUMBER: 16394A

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PLUMBING ABOVE SLAB PLAN

SCALE: 3/32"=1' -0"

DRAWING NOTES:

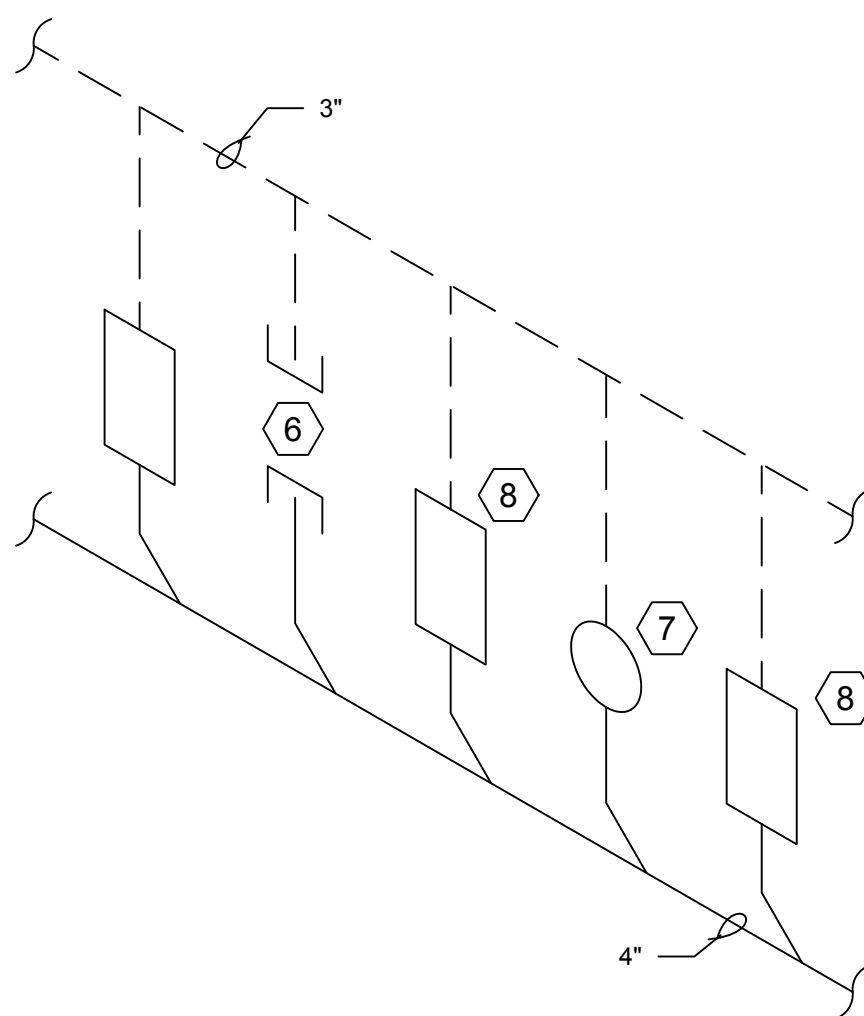
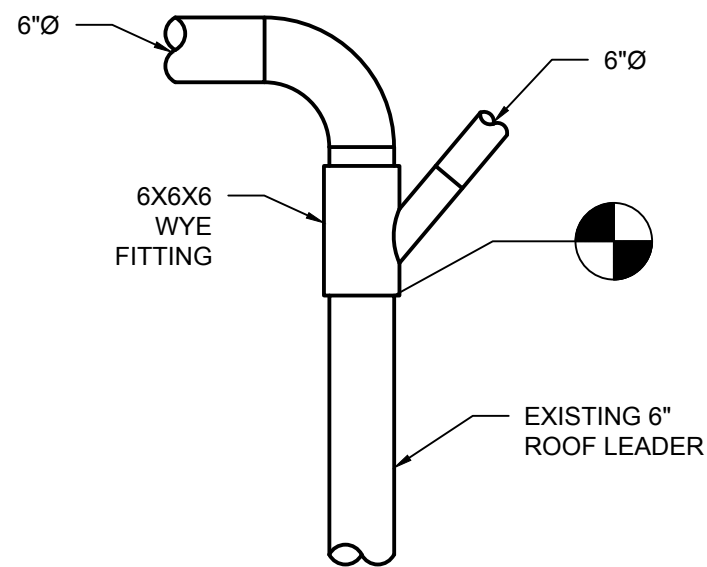
1. ROOF DRAIN SERVES APPROXIMATELY 5950 SQUARE FEET.
2. ROOF DRAIN SERVES APPROXIMATELY 5800 SQUARE FEET.
3. ROOF DRAIN SERVES APPROXIMATELY 4510 SQUARE FEET.
4. ROOF DRAIN SERVES APPROXIMATELY 4400 SQUARE FEET.
5. CONNECT 2 - 6"Ø HORIZONTAL ROOF DRAIN LINES TO 6"Ø VERTICAL LEADER. REFER TO DETAIL ON 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, 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



PARTIAL ISOMETRIC

NO SCALE

90% FINAL PRICING DOCUMENTS



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JOB NUMBER: 16394A

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DATE	DESCRIPTION

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MIAMI TOWNSHIP,
MONTGOMERY COUNTY, OHIO 45342

PROJECT NO.
16394A

PROJECT TITLE

TENANT
SPACE

DWG. TITLE
PLUMBING
ABOVE SLAB
PLAN

DWG. NO.

P.101

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ROOFTOP AIR HANDLING UNIT SCHEDULE																						
MARK	MANUFACTURER	MODEL	AIRFLOW		CAPACITIES										ELECTRICAL				OUTSIDE AIR (CFM)	NOTES		
			CFM	EXTERNAL S.P. (INCHES W.G.)	COOLING				HEATING				MOTOR HP	VOLTAGE	PHASE	MCA	MOCP					
					TOTAL (MBH)	SENSIBLE (MBH)	ENTERING AIR TEMP. DB(°F)/WB(°F)	AMBIENT TEMP. (°F)	EER	IPLV	INPUT (MBH)	OUTPUT (MBH)						STAGES			AFUE	STEADY STATE EFFICIENCY (%)
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	ZF3000N40D4A1AAA1A1	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	ZF3000N40D4A1AAA1A1	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 VANES, 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.

A. 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.

13. 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 255 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-KE 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.
- 90% FINAL PRICING DOCUMENTS
-
- 1785 S. METRO PARKWAY
CENTERVILLE, OH 45459
WWW.TRI-TECH.US
- 937.306.1630
900.334.1630
- JOB NUMBER: 16394A
- | DATE | DESCRIPTION |
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- PAUL J. STRIEBEL & ASSOCIATES, INC.
ARCHITECTURE • LAND PLANNING • INTERIOR DESIGN
10027 Putterview Way Centerville, Ohio 45458, 937-286-2107
-
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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
GENERAL
NOTES AND
SCHEDULES
- DWG. NO.
- M.001

ELECTRICAL SPECIFICATIONS:

1.

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.
2.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES. WHERE THERE IS A CONFLICT, THE MOST STRINGENT SHALL APPLY.
3.

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.
4.

ALL ITEMS SHALL BE NEW UNLESS OTHERWISE NOTED. PROVIDE PRODUCTS LISTED AND LABELED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE INDICATED.
5.

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.
6.

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:

6.1.

LIGHTING CONTROL DEVICES

6.2.

DISCONNECTS

7.

CONDUCTORS:

7.1.

COORDINATE SIZES OF RACEWAYS, BOXES, AND EQUIPMENT ENCLOSURES WITH THE ACTUAL CONDUCTORS TO BE INSTALLED, INCLUDING ADJUSTMENTS FOR CONDUCTOR SIZES INCREASED FOR VOLTAGE DROP.

7.2.

UNLESS DIMENSIONED, CIRCUIT ROUTING INDICATED IS DIAGRAMMATIC. WHEN CIRCUIT DESTINATION IS INDICATED AND ROUTING IS NOT SHOWN, DETERMINE EXACT ROUTING REQUIRED.

7.3.

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.

7.4.

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.

7.5.

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.

7.5.1.

SUBSTITUTION OF ALUMINUM CONDUCTORS FOR COPPER IS PERMITTED ONLY FOR THE FOLLOWING:

7.5.1.1.

SERVICES: COPPER CONDUCTORS SIZE 1/0 AWG AND LARGER.

7.5.1.2.

FEEDERS: COPPER CONDUCTORS SIZE 1/0 AWG AND LARGER.

7.5.2.

WHERE ALUMINUM CONDUCTORS ARE SUBSTITUTED FOR COPPER, COMPLY WITH THE FOLLOWING:

7.5.2.1.

SIZE ALUMINUM CONDUCTORS TO PROVIDE, WHEN COMPARED TO COPPER SIZES INDICATED, EQUIVALENT OR GREATER AMPACITY AND EQUIVALENT OR LESS VOLTAGE DROP.

7.5.2.2.

INCREASE SIZE OF RACEWAYS, BOXES, WIRING GUTTERS, ENCLOSURES, ETC. AS REQUIRED TO ACCOMMODATE ALUMINUM CONDUCTORS.

7.5.2.3.

EQUIP ELECTRICAL DISTRIBUTION EQUIPMENT WITH COMPRESSION LUGS FOR TERMINATING ALUMINUM CONDUCTORS.

7.6.

MINIMUM CONDUCTOR SIZE FOR BRANCH CIRCUITS IS 12 AWG.

7.6.1.

EXCEPTIONS:

7.6.1.1.

20 A, 120 V CIRCUITS LONGER THAN 75 FEET (23 M): 10 AWG, FOR VOLTAGE DROP.

7.6.1.2.

20 A, 120 V CIRCUITS LONGER THAN 150 FEET (46 M): 8 AWG, FOR VOLTAGE DROP.

7.6.1.3.

20 A, 277 V CIRCUITS LONGER THAN 150 FEET (46 M): 10 AWG, FOR VOLTAGE DROP.

7.7.

WHERE CONDUCTOR SIZE IS NOT INDICATED, SIZE TO COMPLY WITH NFPA 70 BUT NOT LESS THAN APPLICABLE MINIMUM SIZE REQUIREMENTS SPECIFIED.

7.8.

COLOR CODE CONDUCTORS AS INDICATED UNLESS OTHERWISE REQUIRED BY THE AUTHORITY HAVING JURISDICTION. MAINTAIN CONSISTENT COLOR CODING THROUGHOUT PROJECT.

7.8.1.

COLOR CODE:

7.8.1.1.

480Y/277 V, 3 PHASE, 4 WIRE SYSTEM:

7.8.1.1.1.

PHASE A: BROWN

7.8.1.1.2.

PHASE B: ORANGE

7.8.1.1.3.

PHASE C: YELLOW

7.8.1.1.4.

NEUTRAL/GROUNDED: GRAY

7.8.1.2.

208Y/120 V, 3 PHASE, 4 WIRE SYSTEM:

7.8.1.2.1.

PHASE A: BLACK

7.8.1.2.2.

PHASE B: RED

7.8.1.2.3.

PHASE C: BLUE

7.8.1.2.4.

NEUTRAL/GROUNDED: WHITE

7.8.1.3.

EQUIPMENT GROUND, ALL SYSTEMS: GREEN

7.8.1.4.

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.

8.

GROUNDTING:

8.1.

CONFORM TO REQUIREMENTS OF NFPA 70.

8.2.

UNLESS SPECIFICALLY INDICATED TO BE EXCLUDED, PROVIDE ALL REQUIRED COMPONENTS, CONDUCTORS, CONNECTORS, CONDUIT, BOXES, FITTINGS, SUPPORTS, ACCESSORIES, ETC. AS NECESSARY FOR A COMPLETE GROUNDTING AND BONDING SYSTEM.

8.3.

WHERE CONDUCTOR SIZE IS NOT INDICATED, SIZE TO COMPLY WITH NFPA 70 BUT NOT LESS THAN APPLICABLE MINIMUM SIZE REQUIREMENTS SPECIFIED.

8.4.

PROVIDE BONDING FOR EQUIPMENT GROUNDTING CONDUCTORS, EQUIPMENT GROUND BUSES, METALLIC EQUIPMENT ENCLOSURES, METALLIC RACEWAYS AND BOXES, DEVICE GROUNDTING TERMINALS, AND OTHER NORMALLY NON-CURRENT-CARRYING CONDUCTIVE MATERIALS ENCLOSING ELECTRICAL CONDUCTORS/EQUIPMENT OR LIKELY TO BECOME ENERGIZED AS INDICATED AND IN ACCORDANCE WITH NFPA 70.

8.5.

PROVIDE INSULATED EQUIPMENT GROUNDTING CONDUCTOR IN EACH FEEDER AND BRANCH CIRCUIT RACEWAY. DO NOT USE RACEWAYS AS SOLE EQUIPMENT GROUNDTING CONDUCTOR.

8.6.

WHERE CIRCUIT CONDUCTOR SIZES ARE INCREASED FOR VOLTAGE DROP, INCREASE SIZE OF EQUIPMENT GROUNDTING CONDUCTOR PROPORTIONALLY IN ACCORDANCE WITH NFPA 70.

8.7.

TERMINATE BRANCH CIRCUIT EQUIPMENT GROUNDTING CONDUCTORS ON SOLIDLY BONDED EQUIPMENT GROUND BUS ONLY. DO NOT TERMINATE ON NEUTRAL (GROUNDED) OR ISOLATED/INSULATED GROUND BUS.

8.8.

UNLESS OTHERWISE INDICATED, USE EXOTHERMIC WELDED CONNECTIONS FOR UNDERGROUND, CONCEALED AND OTHER INACCESSIBLE CONNECTIONS.

8.8.1.

EXOTHERMIC WELDS: MAKE CONNECTIONS USING MOLDS AND WELD MATERIAL SUITABLE FOR THE ITEMS TO BE CONNECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

8.9.

UNLESS OTHERWISE INDICATED, USE MECHANICAL CONNECTORS, COMPRESSION CONNECTORS, OR EXOTHERMIC WELDED CONNECTIONS FOR ACCESSIBLE CONNECTIONS.

8.9.1.

MECHANICAL CONNECTORS: SECURE CONNECTIONS ACCORDING TO MANUFACTURER'S RECOMMENDED TORQUE SETTINGS.

8.9.2.

COMPRESSION CONNECTORS: SECURE CONNECTIONS USING MANUFACTURER'S RECOMMENDED TOOLS AND DIES.

9.

CONDUIT:

9.1.

COORDINATE THE ARRANGEMENT OF CONDUITS WITH STRUCTURAL MEMBERS, DUCTWORK, PIPING, EQUIPMENT AND OTHER POTENTIAL CONFLICTS INSTALLED BY OTHERS.

9.2.

DO NOT USE CONDUIT AND ASSOCIATED FITTINGS FOR APPLICATIONS OTHER THAN AS PERMITTED BY NFPA 70 AND PRODUCT LISTING.

9.3.

UNLESS OTHERWISE INDICATED AND WHERE NOT OTHERWISE RESTRICTED, USE THE CONDUIT TYPES INDICATED FOR THE SPECIFIED APPLICATIONS.

9.3.1.

EXTERIOR, EXPOSED: USE GALVANIZED STEEL RIGID METAL CONDUIT OR INTERMEDIATE METAL CONDUIT (IMC).

9.3.2.

WHERE RIGID POLYVINYL (PVC) CONDUIT IS PROVIDED, TRANSITION TO GALVANIZED STEEL RIGID METAL CONDUIT WHERE EMERGING FROM UNDERGROUND. WHERE LARGER THAN 2", USE GALVANIZED STEEL RIGID METAL CONDUIT ELBOWS FOR BENDS.

9.3.3.

INTERIOR, CONCEALED: USE ELECTRICAL METALLIC TUBING (EMT). MC CABLE IS ACCEPTABLE WHERE APPROVED BY NEC.

9.3.4.

INTERIOR, DAMP OR WET LOCATIONS: USE INTERMEDIATE METAL CONDUIT (IMC).

9.3.5.

CONNECTIONS TO VIBRATING EQUIPMENT: USE LIQUIDTIGHT FLEXIBLE METAL CONDUIT.

9.4.

ALL NEW CONDUITS SHALL BE 3/4" MINIMUM.

9.5.

UNLESS DIMENSIONED, CONDUIT ROUTING IS DIAGRAMMATIC.

9.6.

CONCEAL ALL CONDUITS UNLESS SPECIFICALLY INDICATED TO BE EXPOSED.

9.7.

RUN ALL CONDUIT AND WIRE TIGHT TO BUILDING STRUCTURE WHERE POSSIBLE. ALL RUNS SHALL BE SQUARE AND TRUE WITH BUILDING LINES.

9.8.

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.

9.9.

CONDUIT MOVEMENT PROVISIONS: WHERE CONDUITS ARE SUBJECT TO MOVEMENT, PROVIDE EXPANSION AND EXPANSION/DEFLECTION FITTINGS TO PREVENT DAMAGE TO ENCLOSED CONDUCTORS OR CONNECTED EQUIPMENT.

9.10.

PROVIDE PULL STRING IN ALL EMPTY CONDUITS AND IN CONDUITS WHERE CONDUCTORS AND CABLES ARE TO BE INSTALLED BY OTHERS.

9.11.

CLEAN INTERIOR OF CONDUITS TO REMOVE MOISTURE AND FOREIGN MATTER. IMMEDIATELY AFTER INSTALLATION OF CONDUIT, USE SUITABLE MANUFACTURED PLUGS TO PROVIDE PROTECTION FROM ENTRY OF MOISTURE AND FOREIGN MATERIAL AND DO NOT REMOVE UNTIL READY FOR INSTALLATION OF CONDUCTORS.

10.

BOXES:

10.1.

COORDINATE MINIMUM SIZES OF BOXES WITH THE ACTUAL INSTALLED ARRANGEMENT OF CONDUCTORS, CLAMPS, SUPPORT FITTINGS, AND DEVICES, CALCULATED ACCORDING TO NFPA 70.

10.2.

COORDINATE THE PLACEMENT OF BOXES WITH MILLWORK, FURNITURE, DEVICES, EQUIPMENT, ETC.

10.3.

DO NOT USE BOXES AND ASSOCIATED ACCESSORIES FOR APPLICATIONS OTHER THAN AS PERMITTED BY NFPA 70 AND PRODUCT LISTING.

10.4.

PROVIDE ALL BOXES, FITTINGS, SUPPORTS, AND ACCESSORIES REQUIRED FOR A COMPLETE RACEWAY SYSTEM AND TO ACCOMMODATE DEVICES AND EQUIPMENT TO BE INSTALLED.

10.5.

WHERE BOX SIZE IS NOT INDICATED, SIZE TO COMPLY WITH NFPA 70 BUT NOT LESS THAN APPLICABLE MINIMUM SIZE REQUIREMENTS SPECIFIED.

10.6.

FLUSH-MOUNT BOXES IN FINISHED AREAS UNLESS SPECIFICALLY INDICATED TO BE SURFACE-MOUNTED. UNLESS OTHERWISE INDICATED, BOXES MAY BE SURFACE-MOUNTED WHERE EXPOSED CONDUITS ARE INDICATED OR PERMITTED.

10.7.

LOCATE JUNCTION AND PULL BOXES AS INDICATED, AND AS REQUIRED TO FACILITATE INSTALLATION OF CONDUCTORS, AND TO LIMIT CONDUIT LENGTH AND/OR NUMBER OF BENDS BETWEEN PULLING POINTS. LOCATE BOXES TO BE ACCESSIBLE. PROVIDE ACCESS PANELS AS REQUIRED WHERE APPROVED BY THE ARCHITECT.

10.8.

CLEAN INTERIOR OF BOXES TO REMOVE DIRT, DEBRIS, PLASTER AND OTHER FOREIGN MATERIAL. IMMEDIATELY AFTER INSTALLATION, PROTECT BOXES FROM ENTRY OF MOISTURE AND FOREIGN MATERIAL UNTIL READY FOR INSTALLATION OF CONDUCTORS.

11.

PANELBOARDS:

11.1.

COORDINATE THE WORK WITH OTHER TRADES TO AVOID PLACEMENT OF DUCTWORK, PIPING, EQUIPMENT, OR OTHER POTENTIAL OBSTRUCTIONS WITHIN THE DEDICATED EQUIPMENT SPACES AND WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT REQUIRED BY NFPA 70.

11.2.

COORDINATE ARRANGEMENT OF ELECTRICAL EQUIPMENT WITH THE DIMENSIONS AND CLEARANCE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE INSTALLED.

11.3.

ALL BUSSING SHALL BE COPPER.

11.4.

PROVIDE FULLY RATED NEUTRAL BUS, WITH A SUITABLE LUG FOR EACH FEEDER OR BRANCH CIRCUIT REQUIRING A NEUTRAL CONNECTION.

11.5.

PROVIDE SOLIDLY BONDED EQUIPMENT GROUND BUS IN EACH PANELBOARD, WITH A SUITABLE LUG FOR EACH FEEDER AND BRANCH CIRCUIT EQUIPMENT GROUNDTING CONDUCTOR.

11.6.

CONDUCTOR TERMINATIONS: SUITABLE FOR USE WITH THE CONDUCTORS TO BE INSTALLED.

11.7.

LOCKABLE DOORS: ALL LOCKS KEYED ALIKE UNLESS OTHERWISE INDICATED.

11.8.

LOAD CENTERS ARE NOT ACCEPTABLE.

11.9.

TERMINATE THE FOLLOWING FEATURES AND ACCESSORIES WHERE INDICATED OR WHERE REQUIRED TO COMPLETE INSTALLATION:

11.9.1.

FEED-THROUGH LUGS

11.9.2.

SUB-FEED LUGS

11.10.

PROVIDE BOLT-ON OR PLUG-IN MOLDED CASE CIRCUIT BREAKERS WITH INTERRUPTING CAPACITY AS REQUIRED TO PROVIDE THE SHORT CIRCUIT CURRENT RATING INDICATED, BUT NOT LESS THAN:

11.10.1.

10,000 RMS SYMMETRICAL AMPERES AT 240 VAC OR 208 VAC.

11.10.2.

14,000 RMS SYMMETRICAL AMPERES AT 480 VAC.

11.11.

DO NOT USE TANDEM CIRCUIT BREAKERS.

12.

PROVIDE AND INSTALL ELECTRICAL DISCONNECTS, CIRCUIT BREAKERS, ETC. SPECIFIED OR REQUIRED.

13.

ELECTRICAL CONTRACTOR SHALL DEMO, PATCH AND REPAIR EXISTING WALLS AS REQUIRED FOR ELECTRICAL BOXES, CONDUIT, WALL PENETRATIONS, ETC. SEAL PENETRATIONS IN FIREWALLS WITH APPROVED FIRESTOP MATERIALS AND METHODS. PATCH WEATHER-TIGHT ALL NEW PENETRATIONS IN EXTERIOR WALLS, ROOFS, FLOORS, ETC.

14.

ALL RECEPTACLE AND LIGHTING CIRCUITS SHALL BE 20A UNLESS OTHERWISE SPECIFIED. ALL RESTROOM, KITCHEN AND OUTSIDE RECEPTACLES SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION. OUTSIDE RECEPTACLES SHALL BE PROVIDED WITH WEATHERPROOF COVERS.

15.

COORDINATE LOCATIONS OF LIGHTING FIXTURES WITH MECHANICAL DUCTS, SPRINKLER PIPES AND HEADS BEFORE ROUGH-IN TO PREVENT CONFLICTS. VERIFY EXACT LOCATION OF ALL LIGHTING FIXTURES WITH REFLECTED CEILING PLAN AND/OR ARCHITECT PRIOR TO ROUGH-IN

16.

LABEL ALL NEW DEVICES WITH WHITE PHENOLIC TAG WITH BLACK CORE LETTERING INDICATING SOURCE PANEL AND CIRCUIT. DO NOT COVER SCREWS OF COVERPLATE.

17.

PROVIDE UPDATED TYPED PANEL DIRECTORIES IN ALL AFFECTED PANELS.

LEGEND:

\$

⌘

— NEW ITEM TO BE INSTALLED.

\$

⌘

— EXISTING ITEM TO REMAIN.

\$

⌘

— EXISTING ITEM TO BE DEMOLISHED.

•

⬮

— LIGHT FIXTURE ON EMERGENCY LIGHTING CIRCUIT WITH BATTERY BACK-UP BALLAST.

E/R

— EXISTING TO BE RELOCATED

—

— SWITCH LEG WIRING

A-1

⤿

— CIRCUIT HOME RUN, LABEL INDICATES PANEL AND CIRCUIT NUMBER.

⌘

— NEMA 5-20R, 20A, 125V AC STRAIGHT BLADE DUPLEX RECEPTACLE.

⌘

— 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.

ⓄS

— 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.

DATE	DESCRIPTION

PAUL J. STRIEBEL & ASSOCIATES, INC.

ARCHITECTURE • LAND PLANNING • INTERIOR DESIGN

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

PROJECT TITLE
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LEGEND
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SPECS

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E.001

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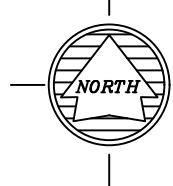
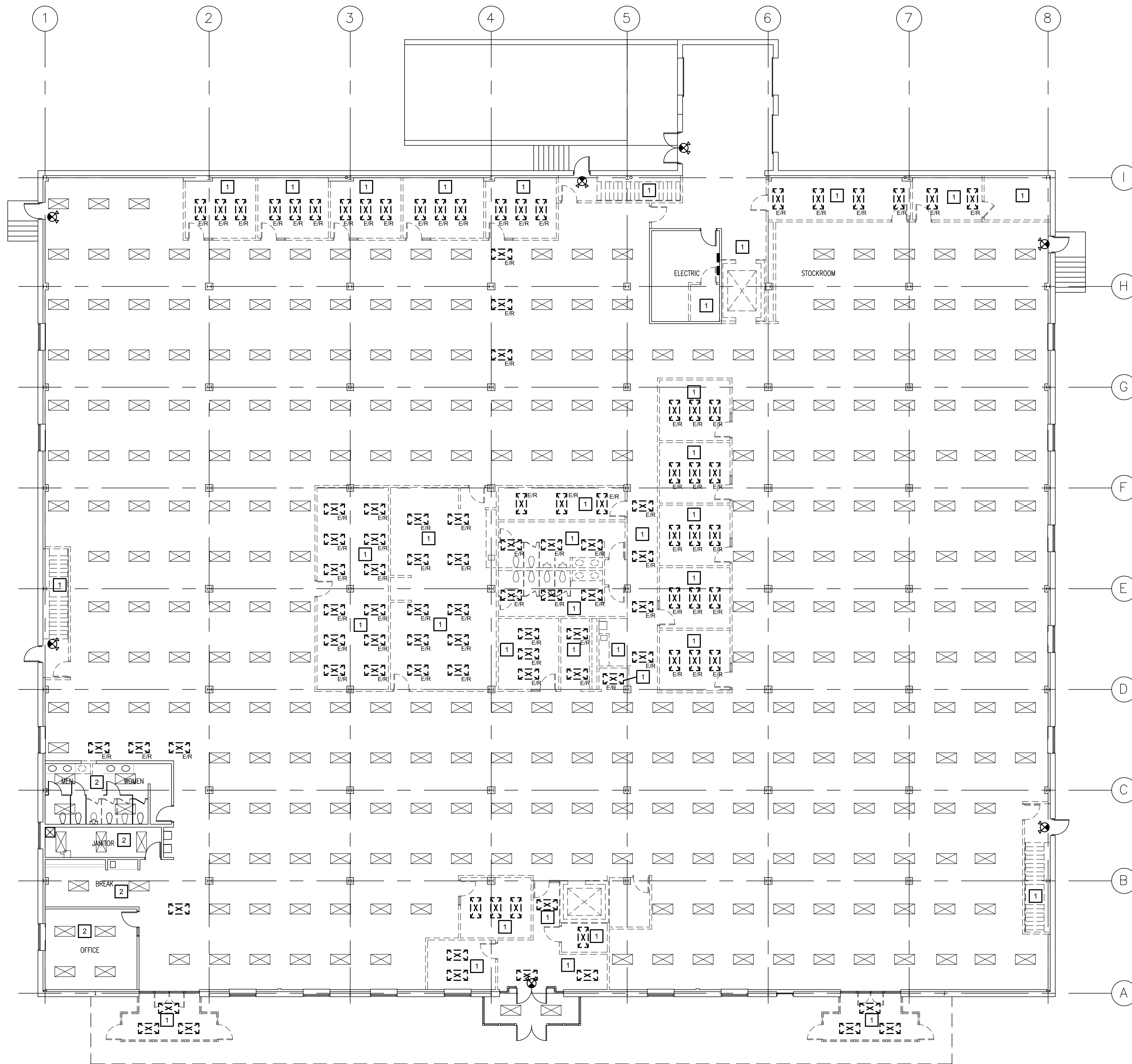
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ELECTRICAL DEMOLITION PLAN
SCALE: 3/32" = 1' - 0"

GENERAL ELECTRICAL DEMO NOTES:

- A. 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.
- B. 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.
- C. ALL CEILING MOUNTED DEVICES NOT SPECIFICALLY INDICATED IN THE PROJECT AREA SHALL BE REMOVED AND REINSTALLED TO FACILITATE INSTALLATION OF NEW CEILING/LIGHT FIXTURES.
- D. ALL CONDUIT, WIRING, BOXES, AND RACEWAY THAT IS NOT BEING REUSED SHALL BE REMOVED BACK TO PANEL FROM WHERE IT ORIGINATES.
- E. DEMOLISH ALL EXISTING PANELBOARDS INDICATED ON THE SINGLELINE DIAGRAM.
- F. 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:

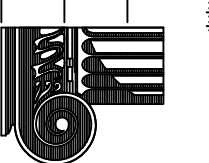
- 1. DEMOLISH EXISTING LIGHTING FIXTURES, LIGHTING SWITCHES AND RECEPTACLES IN THIS SPACE. RELOCATE EXISTING LIGHTING FIXTURES AS INDICATED ON NEW WORK PLANS. CLEAN, AND TEST FIXTURES PRIOR TO RELOCATION. REPLACE LAMPS AND BALLASTS AS NECESSARY TO ENSURE ALL FIXTURES ARE IN PROPER WORKING ORDER UPON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

90% FINAL PRICING DOCUMENTS



1785 S. METRO PARKWAY
CENTERVILLE, OH 45459
WWW.TRI-TECH.US
937.306.1630
800.334.1630
JOB NUMBER: 16394A

DATE	DESCRIPTION



PAUL J. STRIEBEL & ASSOCIATES, INC.
ARCHITECTURE • LAND PLANNING • INTERIOR DESIGN
10027 Puterbaugh Way Centerville, Ohio 45458, 937-286-2107

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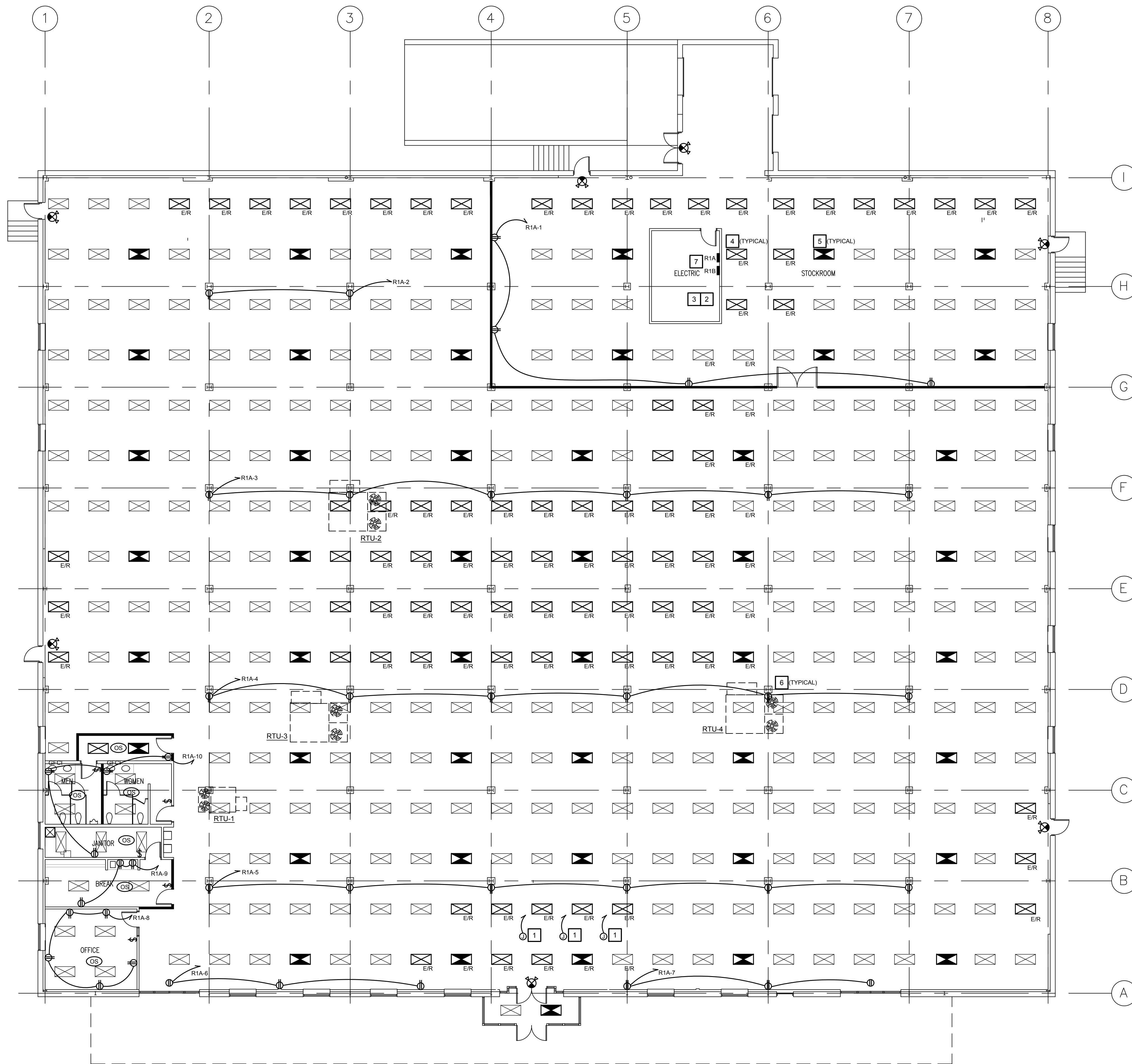
PROPOSED ALTERATIONS TO
EXISTING BUILDING SHELL LOCATED AT
8336 SPRINGBORO PIKE
MIAMI TOWNSHIP,
MONTGOMERY COUNTY, OHIO 45342

PROJECT NO.
16394A

PROJECT TITLE
TENANT SPACE

DWG. TITLE
ELECTRICAL DEMOLITION PLAN

DWG. NO.
E.101



ELECTRICAL NEW WORK NOTES:

1. PROVIDE POWER POLE FOR POWER AND DATA. PROVIDE TWO CHANNEL DIVIDER TO SEPARATE POWER AND LOW VOLTAGE WIRING. PROVIDE POLE WITH (2) RECEPTACLE OUTLETS AND (2) DATA OUTLETS. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
2. PROVIDE AND INSTALL NEW 16-RELAY SPACE LIGHTING CONTROL PANEL, WITH (16) 20A, 120V ELECTRICALLY HELD NORMALLY OPEN RELAYS FACTORY INSTALLED. PROVIDE ALL PROGRAMMING AND STARTUP SERVICES. LOCATE NEXT TO BRANCH CIRCUIT LIGHTING PANEL "HA".
3. INTERCEPT ALL EXISTING LIGHTING CIRCUITS FROM PANEL "HA" AND RUN THROUGH NEW LIGHTING CONTROL PANEL.
4. CONNECT RELOCATED LIGHT FIXTURE TO NEAREST BRANCH LIGHTING CIRCUIT SERVING THIS AREA. EC SAHLL VERIFY LOAD ON EXISTING BRANCH LIGHTING CIRCUIT. IF THE COMBINATION OF EXISTING AND NEW LOAD ARE GREATER THAN 80% OF THE CIRCUIT CAPACITY, PROVIDE NEW CIRCUIT.
5. EC SHALL VERIFY THE QUANTITIES AND LAYOUT OF EMERGENCY EGRESS LIGHT FIXTURES. PROVIDE NEW EMERGENCY EGRESS FIXTURES TO ACCOMMODATE NEW LAYOUT AS INDICATED ON PLANS. EMERGENCY LIGHT FIXTURES SHALL BE UNSWITCHED NIGHT LIGHTS CONNECTED AHEAD OF ALL LOCAL SWITCHING AND CONTROLS. COORDINATE LOCATIONS OF EMERGENCY EGRESS FIXTURES WITH ARCHITECTURAL EGRESS PATH AND RELOCATE FIXTURES AS NECESSARY.
6. NEW RTU 1-4 WILL REPLACE EXISTING RTU'S LIKE FOR LIKE. EXTEND EXISTING WIRE AND CONDUIT TO SERVE THE NEW RTU 1-4 IN NEW LOCATIONS. UTILIZE EXISTING CIRCUIT BREAKERS PREVIOUSLY SERVING THE EXISTING RTU.
7. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

ELECTRICAL NEW WORK PLAN
SCALE: 3/32" = 1' - 0"

90% FINAL PRICING DOCUMENTS



1785 S. METRO PARKWAY
CENTERVILLE, OH 45459
WWW.TRI-TECH.US
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900.334.1630
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DATE	DESCRIPTION

PAUL J. STRIEBEL & ASSOCIATES, INC.
ARCHITECTURE • LAND PLANNING • INTERIOR DESIGN
10027 Puterbaugh Way Centerville, Ohio 45468, 937-286-2107

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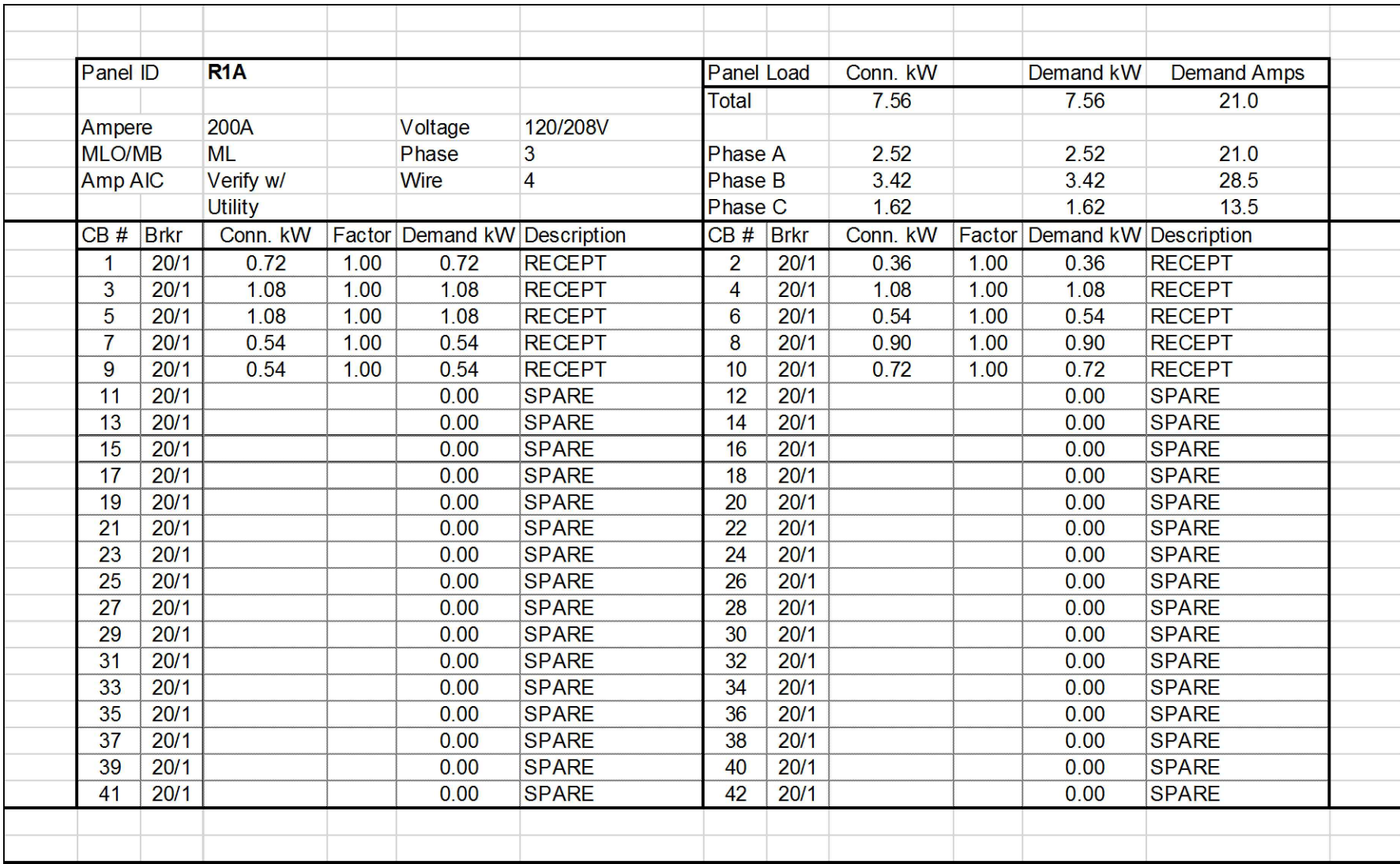
PROPOSED ALTERATIONS TO
EXISTING BUILDING SHELL LOCATED AT
8336 SPRINGBORO PIKE
MIAMI TOWNSHIP,
MONTGOMERY COUNTY, OHIO 45342

PROJECT NO.
16394A

PROJECT TITLE
TENANT SPACE

DWG. TITLE
ELECTRICAL NEW WORK PLAN

DWG. NO.
E.102

[illegible]

SCALE: NONE

A. ALL PANELBOARDS BEING DEMOLISHED SHALL BE TURNED OVER TO THE OWNER.

- ☐ ELECTRICAL DEMOLITION NOTES:

- 1

NOTES:

1. MOUNT NEMA 3R DISCONNECT ADJACENT TO MAU ON ROOF.
2. PROVIDE SEPARATE CIRCUIT TO ROOF TOP UNITS TO SERVE INTEGRAL CONVENIENCE OUTLET. COORDINATE CONNECTION REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
3. VERIFY EXISTING CIRCUIT BREAKER PREVIOUSLY SERVING RTU-1 IS 480-3PH-20A. REPLACE EXISTING CIRCUIT BREAKER WITH NEW 20ACIRCUIT BREAKER IF NECESSARY. NEW CIRCUIT BREAKER SHALL MATCH EXISTING IN STYLE AND RATING.
4. VERIFY EXISTING CIRCUIT BREAKER PREVIOUSLY SERVING RTU-1 IS 480-3PH-70A. REPLACE EXISTING CIRCUIT BREAKER WITH NEW 70ACIRCUIT BREAKER IF NECESSARY. NEW CIRCUIT BREAKER SHALL MATCH EXISTING IN STYLE AND RATING.
5. VERIFY EXISTING CIRCUIT BREAKER PREVIOUSLY SERVING RTU-1 IS 480-3PH-90A. REPLACE EXISTING CIRCUIT BREAKER WITH NEW 90ACIRCUIT BREAKER IF NECESSARY. NEW CIRCUIT BREAKER SHALL MATCH EXISTING IN STYLE AND RATING.

NOTES:

1. MOUNT NEMA 3R DISCONNECT ADJACENT TO MAU ON ROOF.
2. PROVIDE SEPARATE CIRCUIT TO ROOF TOP UNITS TO SERVE INTEGRAL CONVENIENCE OUTLET. COORDINATE CONNECTION REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
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5. VERIFY EXISTING CIRCUIT BREAKER PREVIOUSLY SERVING RTU-1 IS 480-3PH-90A. REPLACE EXISTING CIRCUIT BREAKER WITH NEW 90A/CIRCUIT BREAKER IF NECESSARY. NEW CIRCUIT BREAKER SHALL MATCH EXISTING IN STYLE AND RATING.