HOFFMAN ESTATES PARK DISTRICT
PRAIRIE STONE SPORTS & WELLNESS CENTER
WET AREA RENOVATIONS
5050 SEDGE BLVD. HOFFMAN ESTATES, IL 60192

INDEX OF DRAWINGS

LICENSED ARCHITECT'S CERTIFICATION OF PLANS AND SPECIFICATIONS FOR NEW CONSTRUCTION

I hereby certify that these plans and specifications, dated APRIL 3, 2017 , for PRAIRIE STONE SPORTS & WELLNESS CENTER, WET AREA RENOVATIONS, located at 5050 SEDGE BLVD. HOFFMAN ESTATES, IL 60192, for HOFFMAN ESTATES PARK DISTRICT, were prepared under my supervision using the 2009 INTERNATIONAL BUILDING CODE and to the best of my knowledge, comply with all applicable requirements of the Village of Hoffman Estates, the County of Cook, and the State of Illinois.

Architect's Firm: DLA Architects, Ltd.

Architect's Name: Carrie Matlock

License Number: IL # 001-018535

License Expires: NOVEMBER 30, 2018

Signature: _____

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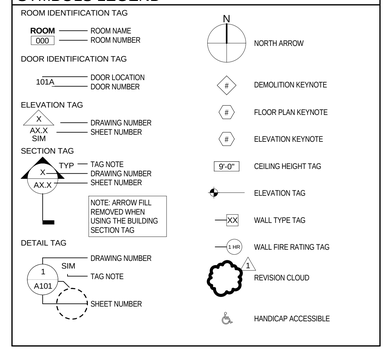
MARK	DATE
BID SET	04.03.2017

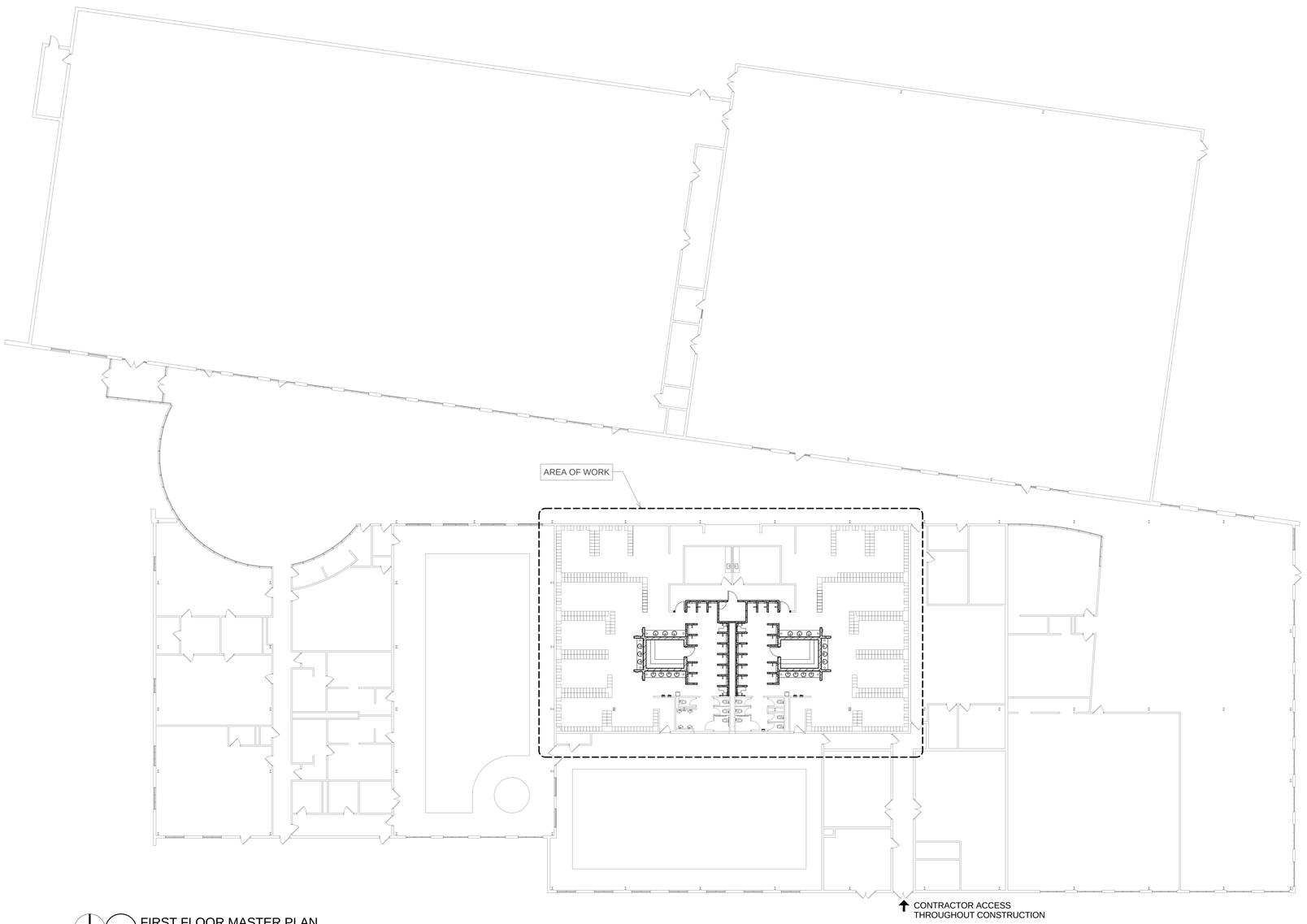
PROJECT No: 2017.08
DATE: APRIL 3, 2017
SHEET TITLE:
TITLE SHEET
SHEET:
G0

GENERAL NOTES

1. VERIFY ALL EXISTING CONDITIONS RELATED TO CONSTRUCTION COMPARED TO THE INFORMATION PROVIDED IN THE CONSTRUCTION DOCUMENTS. IF DISCREPANCIES OR CONFLICTS BETWEEN THE TWO ARE DISCOVERED, NOTIFY THE ARCHITECT FOR CLARIFICATION PRIOR TO SUBMITTING A BID AND/ OR PERFORMING WORK.
2. COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES.
3. COORDINATE ALL TRADES PRIOR TO PERFORMING WORK INCLUDING BUT NOT LIMITED TO MECHANICAL, PLUMBING, ELECTRICAL, AND STRUCTURAL.
4. OTHER WORK MAY BE PERFORMED UNDER A SEPARATE CONTRACT. COORDINATE WITH ALL OTHER CONTRACTED TRADES SO AS TO NOT INTERFERE WITH THEIR WORK.
5. STORE MATERIALS IN A MANNER NOT TO OVERSTRESS, OVERLOAD, OR OTHERWISE PUT AN INAPPROPRIATE LOAD ON ANY STRUCTURE DURING CONSTRUCTION.
6. SCHEDULE AND COORDINATE ALL SHUT DOWNS OF EXISTING UTILITIES WITH THE OWNER PRIOR TO SHUT DOWN. PREPARE ALL NECESSARY WORK PRIOR TO SHUT DOWNS. IF AT ALL POSSIBLE, COMBINE UTILITY SHUT DOWNS TO MINIMIZE THE IMPACT OF THE OWNER'S OPERATION OF EXISTING FACILITIES. SEE SPECIFICATIONS FOR ANY FURTHER DETAILS.
7. LOCATE ALL MATERIALS, EQUIPMENT, TRUCKS, DUMPSTERS, AND CONSTRUCTION FACILITIES IN AREAS APPROVED BY OWNER. SPECIAL CARE SHALL BE TAKEN TO PREVENT DAMAGE TO EXISTING BUILDING STRUCTURE, LANDSCAPING, AND PAVED AREAS. PROVIDE WOOD PLANK PROTECTION BELOW ALL DUMPSTERS AND OTHER HEAVY EQUIPMENT. ALL DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED AT NO EXPENSE TO THE OWNER.
8. PROTECT OR SAFELY STORE ALL BUILDING AND SITE ELEMENTS THAT ARE SCHEDULED TO REMAIN OR BE REUSED TO AVOID DAMAGE DURING THE CONSTRUCTION PROCESS. DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED AT NO EXPENSE TO THE OWNER.
9. REPAIR ALL AREAS DAMAGED FROM THE CONSTRUCTION WORK. PATCH AND/OR PROVIDE NEW FINISHES AT ALL DAMAGED AREAS WITH MATERIALS AND FINISHES TO MATCH THE EXISTING CONDITIONS. NEW MATERIALS AND FINISHES SHALL BE BROUGHT TO A STOPPING POINT TO MINIMIZE DETECTION OF REPAIR, VERIFY LOCATIONS WITH ARCHITECT.
10. ALL WORK OUTLINED IN THE PROJECT SCOPE THAT EXTENDS INTO AREAS LABELED "NIC" SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK TO INSURE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
11. TAKE SPECIAL CARE NOT TO DAMAGE OR INTERRUPT THE EXISTING SERVICES INCLUDING, BUT NOT LIMITED TO, ELECTRICAL WIRING, PNEUMATIC CONTROL LINES, SOUND SYSTEM WIRING, FIRE ALARM WIRING, COMPUTER/NETWORK CABLING, AND TEMPERATURE CONTROLS. THESE ITEMS AND THE LIKE ARE FULLY OPERATIONAL. VERIFY THE CONDITION AND OPERATION OF EACH SYSTEM BEFORE, DURING, AND AFTER CONSTRUCTION. SYSTEMS DAMAGED DURING CONSTRUCTION SHALL BE PLACED BACK INTO SERVICE PROMPTLY AND AT NO ADDITIONAL COST TO THE OWNER. REFER TO THE MEP DRAWINGS FOR FURTHER INFORMATION.
12. COORDINATE THE SIZE AND LOCATION OF ALL NEW DUCT OPENINGS AND PENETRATIONS IN WALLS AND FLOORS WITH MECHANICAL, PLUMBING, AND ELECTRICAL TRADES PRIOR TO PERFORMING WORK. PROVIDE ALL REQUIRED LINTELS FOR THESE OPENINGS ALONG WITH FIRESTOPPING AS REQUIRED BY THE FIRE RATING OF THE WALL.
13. DO NOT SCALE THE DRAWINGS TO DETERMINE A DIMENSION.
14. ALL PLAN DIMENSIONS ARE SHOWN AND INDICATED WITH A NOMINAL WIDTH.
15. INTERIOR DIMENSIONS ARE FROM FINISH TO FINISH UNLESS SPECIFICALLY NOTED OTHERWISE. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF STUD OR MASONRY UNLESS NOTED OTHERWISE.
16. DETAILS ARE TYPICAL AND ARE NOT TO BE CONSTRUED AS LIMITED TO THOSE AREAS SPECIFICALLY INDICATED. IF IN QUESTION, VERIFY APPLICATION WITH ARCHITECT PRIOR TO SUBMITTING A BID AND/ OR PERFORMING WORK.
17. PROVIDE TEMPORARY PARTITIONS REQUIRED TO SEPARATE CONSTRUCTION AREAS FROM PUBLIC USE AREA. PROVIDE DUST PROOF PARTITIONS AS REQUIRED TO LIMIT DUST AND DIRT MITIGATION OUTSIDE OF CONSTRUCTION AREAS OR INTO ADJACENT PLENUM CEILING SPACES. PROVIDE FLOOR, WALL AND/OR CEILING PROTECTION THROUGHOUT EXISTING SPACES IMPACTED BY CONSTRUCTION ACTIVITIES. REFER TO MOLD REMEDIATION SCOPE OF WORK NOTES FOR ESTABLISHING NEGATIVE AIR PRESSURE WITHIN AREAS OF CONSTRUCTION.

SYMBOLS LEGEND





1 FIRST FLOOR MASTER PLAN
1/16" = 1'-0"

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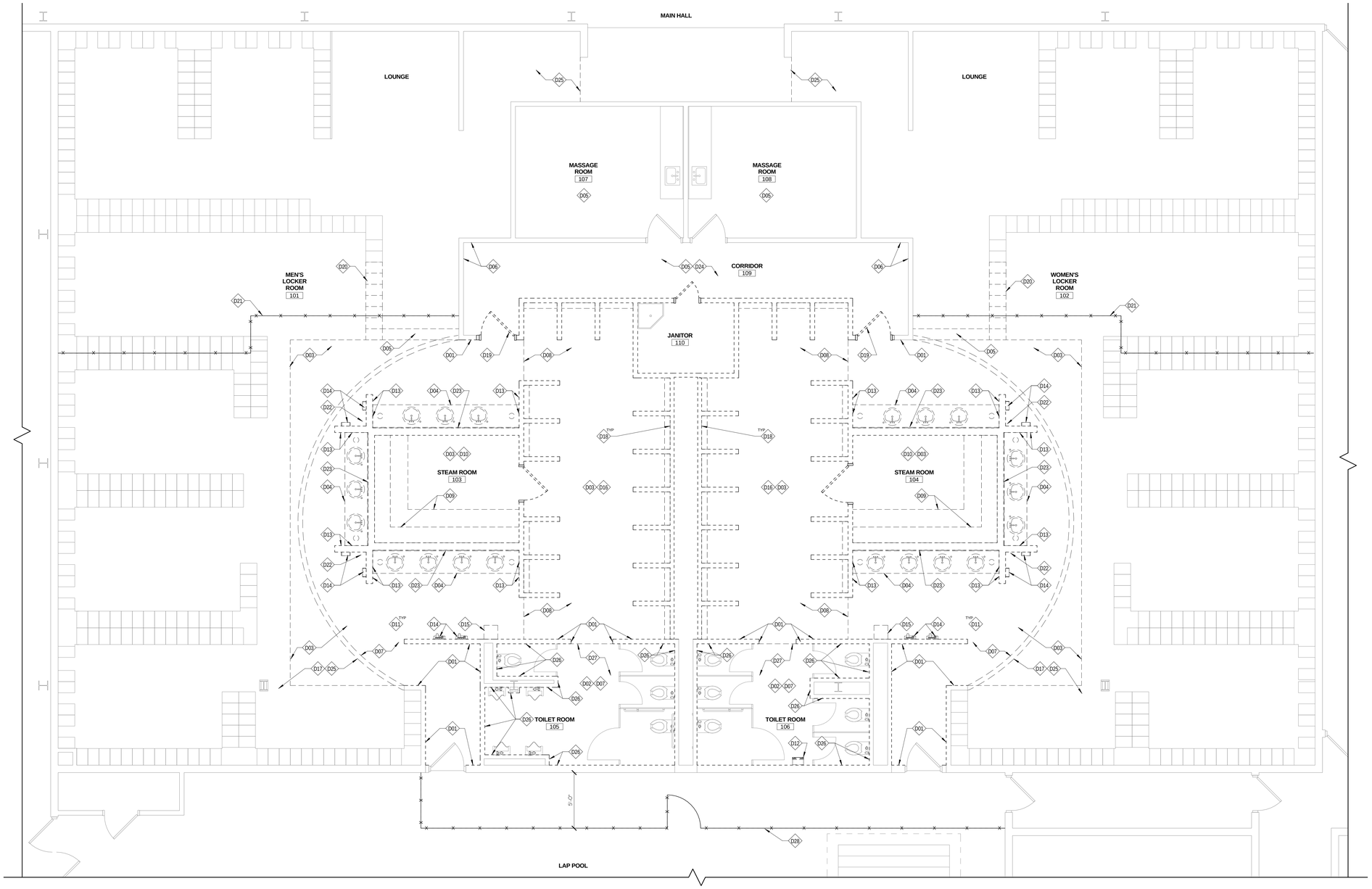
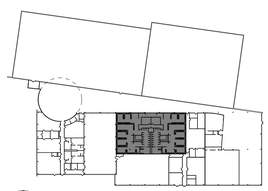
SHEET TITLE:
FIRST FLOOR MASTER PLAN, GENERAL NOTES & SYMBOLS LEGEND

SHEET:
G0.1



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



KEYPLAN

DEMOLITION PLAN GENERAL NOTES

1. SEE SHEET G0.1 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. FIELD VERIFY AND COORDINATE EXACT LOCATIONS AND EXTENT OF WALL, FLOOR AND CEILING DEMOLITION AND PATCHING REQUIRED FOR NEW WORK. COORDINATE EXTENT OF DEMOLITION WORK REQUIRED WITH STRUCTURAL, CIVIL, MEP & FIRE PROTECTION DRAWINGS.
3. PROTECT FLOORS, WALLS, AND CEILINGS TO AVOID DAMAGE THROUGHOUT CONSTRUCTION.
4. REMOVE ALL EXISTING MISCELLANEOUS WALL MOUNTED ITEMS (E.G. SHELVES, MIRRORS, VISUAL DISPLAY BOARDS, ETC.) AND ASSOCIATED ANCHORS AND/OR FASTENERS WHETHER OR NOT INDICATED ON THE PLANS AS REQUIRED TO ACCOMMODATE NEW WORK. TURN OVER ITEMS TO OWNER. DISPOSE OF ANY ITEMS NOT WANTED BY THE OWNER.
5. PATCH FLOORS SMOOTH WHERE WALLS, CERAMIC TILE, OR OTHER FLOOR MOUNTED ITEMS HAVE BEEN REMOVED. GRIND CONCRETE SUBFLOOR AND/OR PROVIDE SELF-LEVELING UNDERLAYMENT AS REQUIRED TO MATCH ADJACENT FLOOR ELEVATIONS AND PITCH TOWARD DRAINS. SEE SPECIFICATIONS.
6. REFER TO PLUMBING DRAWINGS FOR FIXTURE REMOVAL. PATCH AREAS AFFECTED BY FIXTURE REMOVAL.
7. ALL ITEMS INDICATED TO BE SALVAGED FOR REINSTALLATION SHALL BE STORED ON-SITE IN A LOCATION DESIGNATED BY OWNER.
8. WIRING OR CABLING THAT IS FOUND LOOSE ABOVE CEILINGS SCHEDULED FOR DEMOLITION SHALL BE BUNDLED WITH LIKE WIRING OR CABLING WITH PLASTIC STRAPS AND SECURED TO THE STRUCTURE AT A MINIMUM OF 36" OC UNLESS NOTED OTHERWISE. SEE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.

DEMOLITION PLAN LEGEND

- # — DEMOLITION TAG INDICATES KEYNOTE REFERENCED
- EXISTING WALLS AND PARTITIONS TO REMAIN
- EXISTING METAL STUD PARTITIONS TO BE REMOVED
- EXISTING DOORS AND FRAMES TO REMAIN
- EXISTING DOORS AND FRAMES TO BE REMOVED

NOTE:
DEMOLITION PLANS, LEGEND AND KEYNOTES ARE COMPLIMENTARY TO EACH OTHER. ALL DASHED ITEMS ARE TO BE REMOVED EVEN IF DEMOLITION KEYNOTE IS NOT PRESENT.

DEMOLITION PLAN KEYNOTES

- Dxx — DEMOLITION PLAN KEYNOTES
- D01 — REMOVE AND DISPOSE OF EXISTING CERAMIC WALL TILE AND BACKER BOARD. EXISTING METAL STUD FRAMING TO REMAIN.
- D02 — ALTERNATE NO. 1: CAREFULLY REMOVE EXISTING FLOOR- MOUNTED PHENOLIC TOILET PARTITIONS, RELATED TOILET ACCESSORIES AND WALL-MOUNTED PHENOLIC URINAL SCREENS AND SET ASIDE FOR REINSTALLATION UPON COMPLETION OF WORK.
- D03 — REMOVE AND DISPOSE OF EXISTING CERAMIC FLOOR TILE.
- D04 — REMOVE AND DISPOSE OF EXISTING SOLID SURFACE COUNTER AND INTEGRAL SINKS.
- D05 — REMOVE AND DISPOSE OF EXISTING CARPET AND RESILIENT WALL BASE.
- D06 — REMOVE AND DISPOSE OF EXISTING WALL PAPER.
- D07 — REMOVE AND DISPOSE OF EXISTING SUSPENDED GRID CEILING SYSTEM AND GYPSUM BOARD SOFFIT.
- D08 — REMOVE AND DISPOSE OF EXISTING GYPSUM BOARD CEILING SYSTEM.
- D09 — REMOVED AND DISPOSE OF EXISTING METAL STUD-FRAMED BUILT-IN SEATING.
- D10 — REMOVE AND DISPOSE OF EXISTING CERAMIC TILE CEILING SYSTEM.
- D11 — CAREFULLY REMOVE ALL WALL-MOUNTED SIGNAGE AND SET ASIDE FOR REINSTALLATION UPON COMPLETION OF WORK IN LOCATION AS DESIGNATED BY OWNER AND ARCHITECT.
- D12 — REMOVE AND DISPOSE OF EXISTING SURFACE-MOUNTED SANITARY NAPKIN DISPENSER.
- D13 — CAREFULLY REMOVE EXISTING SURFACE-MOUNTED PAPER TOWEL DISPENSER AND WALL-MOUNTED HAND-HELD HAIR DRYER, AND SET ASIDE FOR REINSTALLATION UPON COMPLETION OF WORK.
- D14 — REMOVE AND DISPOSE OF EXISTING SURFACE-MOUNTED ELECTRIC HAND DRYER AND ELECTRIC HAIR DRYER.
- D15 — CAREFULLY REMOVE EXISTING SWIM SUIT WATER EXTRACTOR AND SET ASIDE FOR REINSTALLATION UPON COMPLETION OF WORK.
- D16 — REMOVE AND DISPOSE OF EXISTING SHOWER CURTAIN ROD, SHOWER CURTAIN, ROBE HOOKS, GRAB BARS AND FOLDING SHOWER SEATS FROM SHOWER STALLS.
- D17 — CAREFULLY REMOVE PORTION OF EXISTING SUSPENDED GRID CEILING SYSTEM AS REQUIRED TO ACCOMMODATE NEW WORK. PROVIDE ONE LAYER OF 6-MIL POLYETHYLENE SHEET FROM CEILING UP TO UNDERSIDE OF DECK ALONG ENTIRE PERIMETER OF OPEN CEILING TO PROTECT EXISTING PLENUM SPACE.
- D18 — CAREFULLY REMOVE EXISTING WALL-MOUNTED BATH PRODUCTS DISPENSER SHELF AND SET ASIDE FOR REINSTALLATION UPON COMPLETION OF WORK.
- D19 — REMOVE AND DISPOSE OF EXISTING HOLLOW METAL DOOR FRAME. SALVAGE EXISTING WOOD DOOR FOR REINSTALLATION INTO NEW HM FRAME.
- D20 — CAREFULLY REMOVE PORTION OF EXISTING WOOD LOCKERS AS REQUIRED TO ACCOMMODATE PATRON ACCESS DURING CONSTRUCTION. SET ASIDE FOR REINSTALLATION UPON COMPLETION OF WORK. PROVIDE A MINIMUM OF 48" CLEARANCE BETWEEN TEMPORARY WALL AND REMAINING LOCKERS.
- D21 — PROVIDE TEMPORARY PARTITION AS REQUIRED TO SEPARATE THE CONSTRUCTION AREAS FROM THE PUBLIC USE AREAS. LOCATION AS SHOWN ON PLAN SHALL BE USED AS A GUIDE AND SHALL NOT BE CONSIDERED FINAL LAYOUT. CONTRACTOR SHALL LOCATE PARTITIONS AS REQUIRED TO ACCOMMODATE CONSTRUCTION AND OWNER USE OF ADJACENT SPACES. PARTITION SHALL BE ERECTED FROM FLOOR TO UNDERSIDE OF EXISTING CEILING AND SHALL HAVE GYPSUM WALL BOARD WITH TAPED JOINTS ON THE OCCUPIED SIDE OF THE WALL AND PLYWOOD SHEATHING WITH 6-MIL POLYETHYLENE SHEET ON THE CONSTRUCTION SIDE OF THE WALL. PROVIDE ADDITIONAL DUST PARTITION AS REQUIRED TO PROTECT EXISTING LOCKER ROOM THROUGHOUT CONSTRUCTION.
- D22 — CAREFULLY REMOVE EXISTING TV AND SET ASIDE FOR REINSTALLATION UPON COMPLETION OF WORK. BUNDLE ALL WIRING ABOVE CEILING AND PROTECT FROM DUST AND DAMAGE THROUGHOUT CONSTRUCTION. PROTECT EXISTING SUSPENDED TV MOUNT THROUGHOUT CONSTRUCTION.
- D23 — REMOVE AND DISPOSE OF EXISTING WALL-MOUNTED MIRROR.
- D24 — REMOVE AND DISPOSE OF EXISTING SUSPENDED GRID CEILING SYSTEM.
- D25 — REMOVE AND DISPOSE OF EXISTING CEILING TILES.
- D26 — ALTERNATE NO.2: REMOVE AND DISPOSE OF EXISTING CERAMIC WALL TILE AND BACKER BOARD. EXISTING METAL STUDS TO REMAIN.
- D27 — ALTERNATE NO. 1: REMOVE AND DISPOSE OF EXISTING CERAMIC FLOOR TILE.
- D28 — PROVIDE TEMPORARY PARTITION AS REQUIRED TO ACCOMMODATE CONTRACTOR ACCESS TO AREAS OF WORK. PARTITION SHALL BE 8'-0" HIGH AND FINISHED WITH PLYWOOD SHEATHING. PROVIDE A SINGLE DOOR FOR USE AS EMERGENCY EXIT FROM THE POOL AREA. PROVIDE MASONITE TO PROTECT EXISTING POOL DECK FLOOR THROUGHOUT CONSTRUCTION, AND TACKY MAT AT EACH ENTRANCE TO THE WORK AREA. PROVIDE DUST PROTECTION OVER EXISTING LOCKER ROOM DOORS TO MINIMIZE THE TRANSFER OF DUST FROM THE WORK AREA INTO THE POOL.

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SHEET TITLE:
FIRST FLOOR DEMOLITION PLAN

SHEET:
AD1.1

FLOOR PLAN GENERAL NOTES

1. SEE SHEET G0.1 FOR GENERAL NOTES AND SYMBOLS.
2. SEE SHEET A7.1 FOR WALL TYPE DETAILS. ALL NEW INTERIOR WALLS TYPE 'A' UNLESS NOTED OTHERWISE.
3. SEE DETAIL A7.1 FOR TYPICAL MOUNTING HEIGHTS OF BUILDING ELEMENTS AND EQUIPMENT.
4. SEE SHEET A9.1 FOR DOOR AND FRAME SCHEDULE.
5. SEE ROOM FINISH PLANS AND INTERIOR ELEVATIONS FOR WALL FINISHES.
6. CONSTRUCT ALL WALLS TO UNDERSIDE OF THE DECK UNO
7. PATCH ALL AREAS DISTURBED BY CONSTRUCTION WHETHER OR NOT INDICATED ON PLANS. PATCH OR PROVIDE NEW MATERIALS TO MATCH EXISTING ADJACENT CONDITIONS. NEW MATERIALS AND FINISHES SHALL BE BROUGHT TO A STOPPING POINT TO MINIMIZE DETECTION OF REPAIR.
8. PATCH ALL HOLES WHERE ITEMS HAVE BEEN REMOVED FROM WALLS. INFILL ALL VOIDS AFTER REMOVAL OF EXISTING DUCTS, PIPING, CONDUIT, ETC. TO MATCH EXISTING ADJACENT CONSTRUCTION.
9. ALL ROOM NAMES AND NUMBERS INDICATED ON THE DRAWINGS ARE FOR REFERENCE ONLY. OWNER WILL PROVIDE NEW NAMES AND NUMBERS THAT SHALL BE USED FOR THE PROGRAMMING OF ALL SYSTEMS.
10. NEW INFILL WALLS TO BE FLUSH AND ALIGN WITH EXISTING CONSTRUCTION UNLESS NOTED OTHERWISE.
11. TOILET ACCESSORIES ARE LOCATED ON THE FLOOR PLANS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

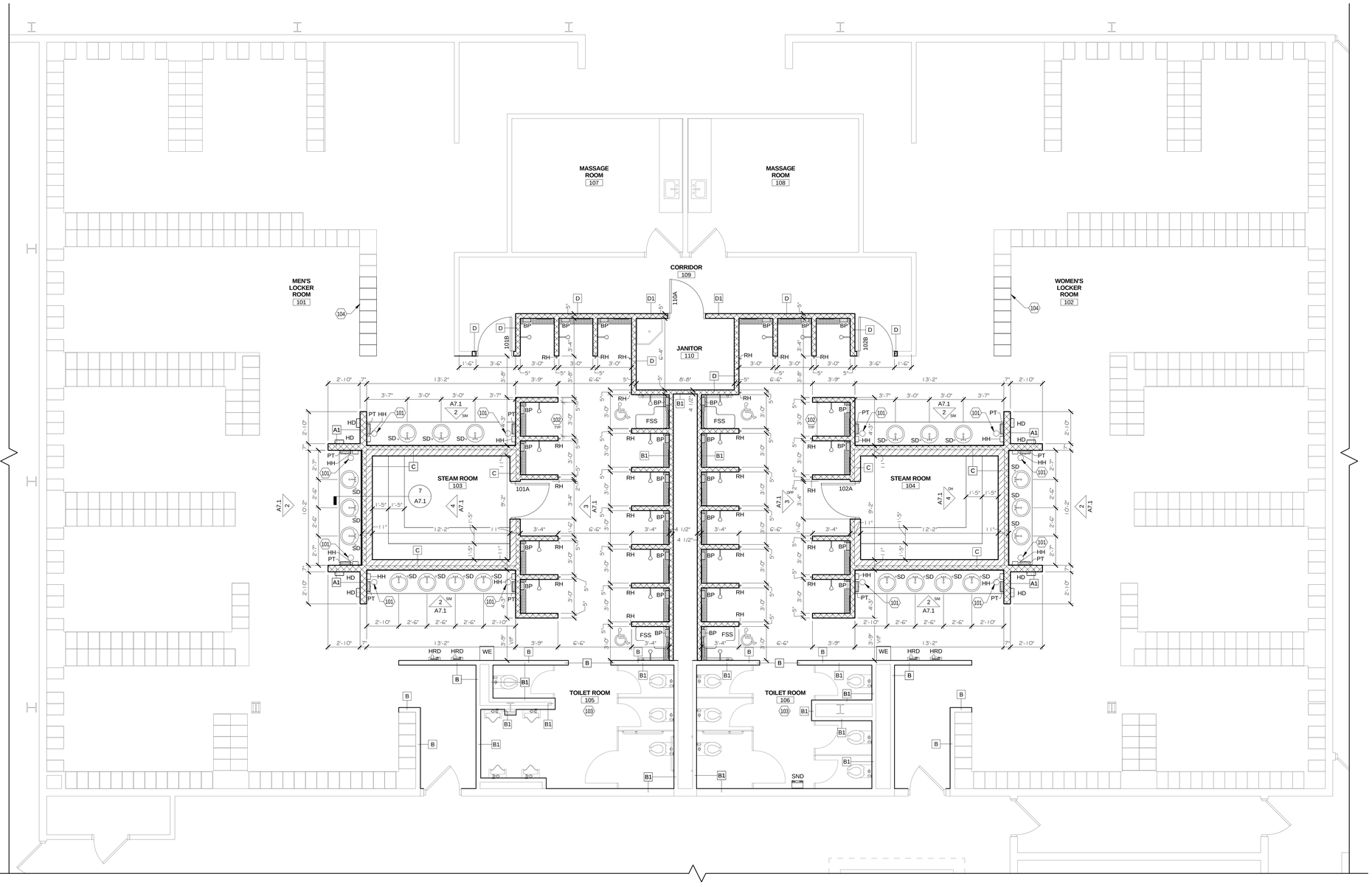
(1XX) FLOOR PLAN GENERAL NOTES

(101) 6" DIAMETER BRUSHED SATIN STAINLESS STEEL TRASH GROMMET.

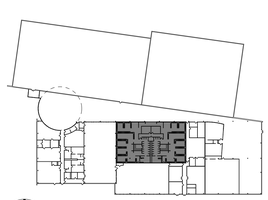
(102) SHOWER CURTAIN AND ROD- SEE SPECIFICATIONS.

(103) ALTERNATE NO. 1: REINSTALL EXISTING TOILET PARTITIONS AND RELATED TOILET ACCESSORIES.

(104) REINSTALL EXISTING LOCKERS SALVAGED DURING DEMOLITION TO ORIGINAL LOCATION.



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



KEYPLAN

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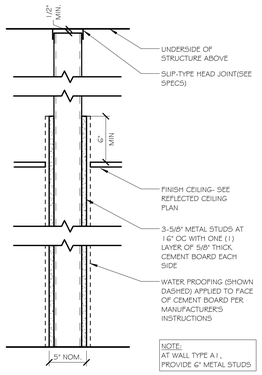
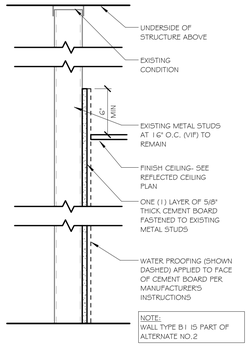
SHEET TITLE: FIRST FLOOR PLAN
SHEET: A1.1



WALL TYPE A
1 1/2" = 1'-0"



WALL TYPE B
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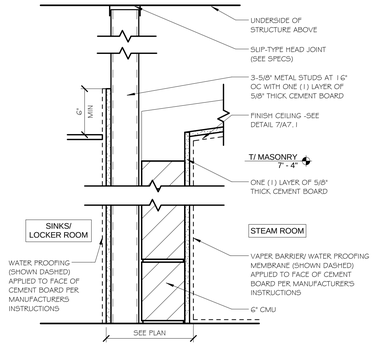

WALL TYPE C
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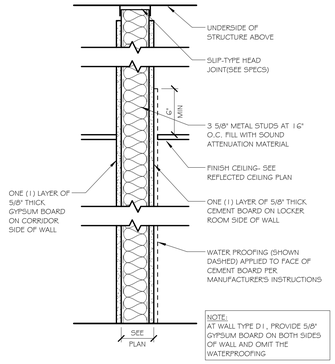
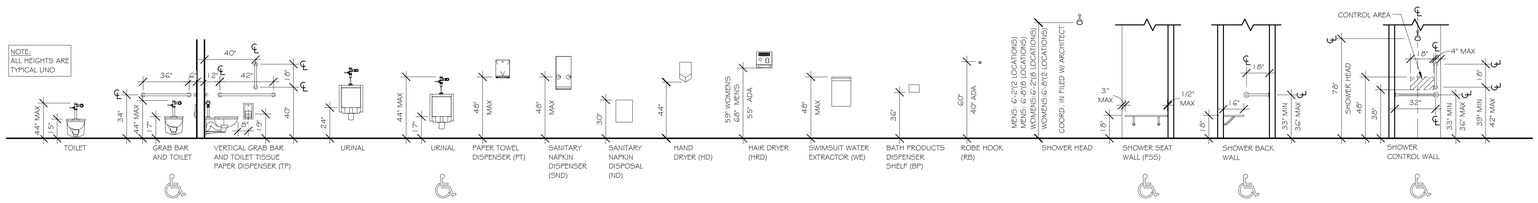


WALL TYPE D
1 1/2" = 1'-0"



TYPICAL MOUNTING HEIGHTS
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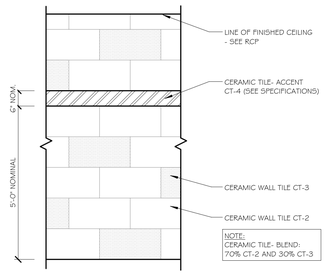

1 TYPICAL CERAMIC WALL TILE PATTERN
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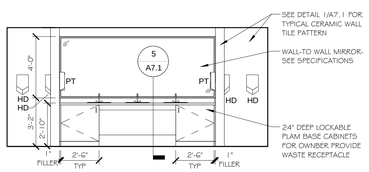
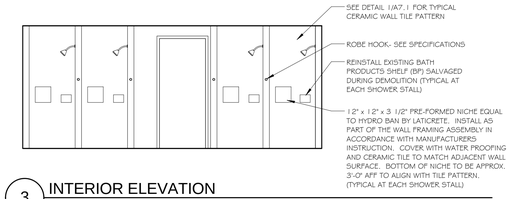


2 INTERIOR ELEVATION
1/4" = 1'-0"



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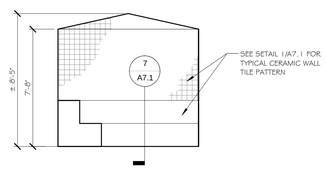
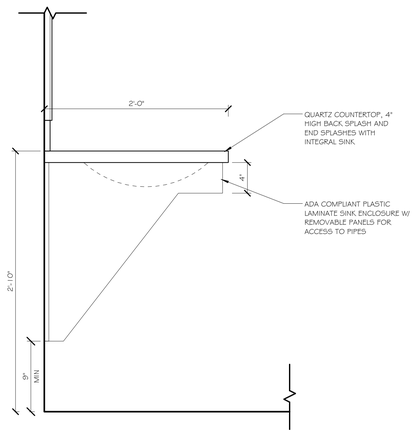
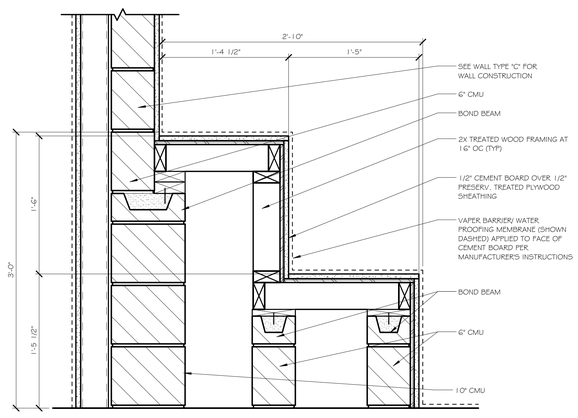
1/4" = 1'-0"



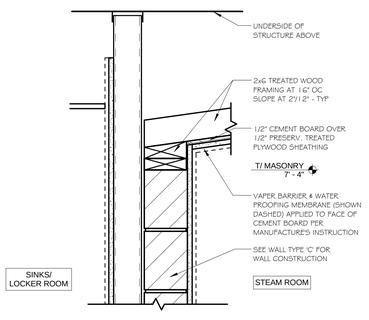
4 INTERIOR ELEVATION - STEAM ROOM
1/4" = 1'-0"



5 CASEWORK DETAIL
1 1/2" = 1'-0"



6 DETAIL - STEAM ROOM SEAT
1 1/2" = 1'-0"



7 DETAIL
1 1/2" = 1'-0"

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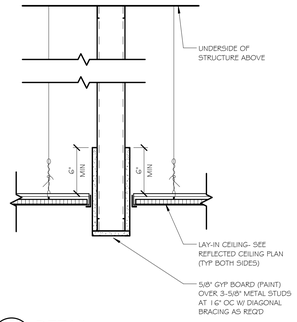
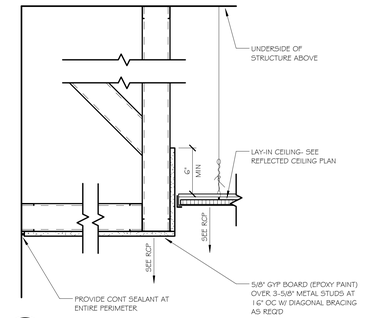
SHEET TITLE:
WALL TYPES, INTERIOR ELEVATIONS & DETAILS

SHEET:
A7.1



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



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

REFLECTED CEILING PLAN GENERAL NOTES

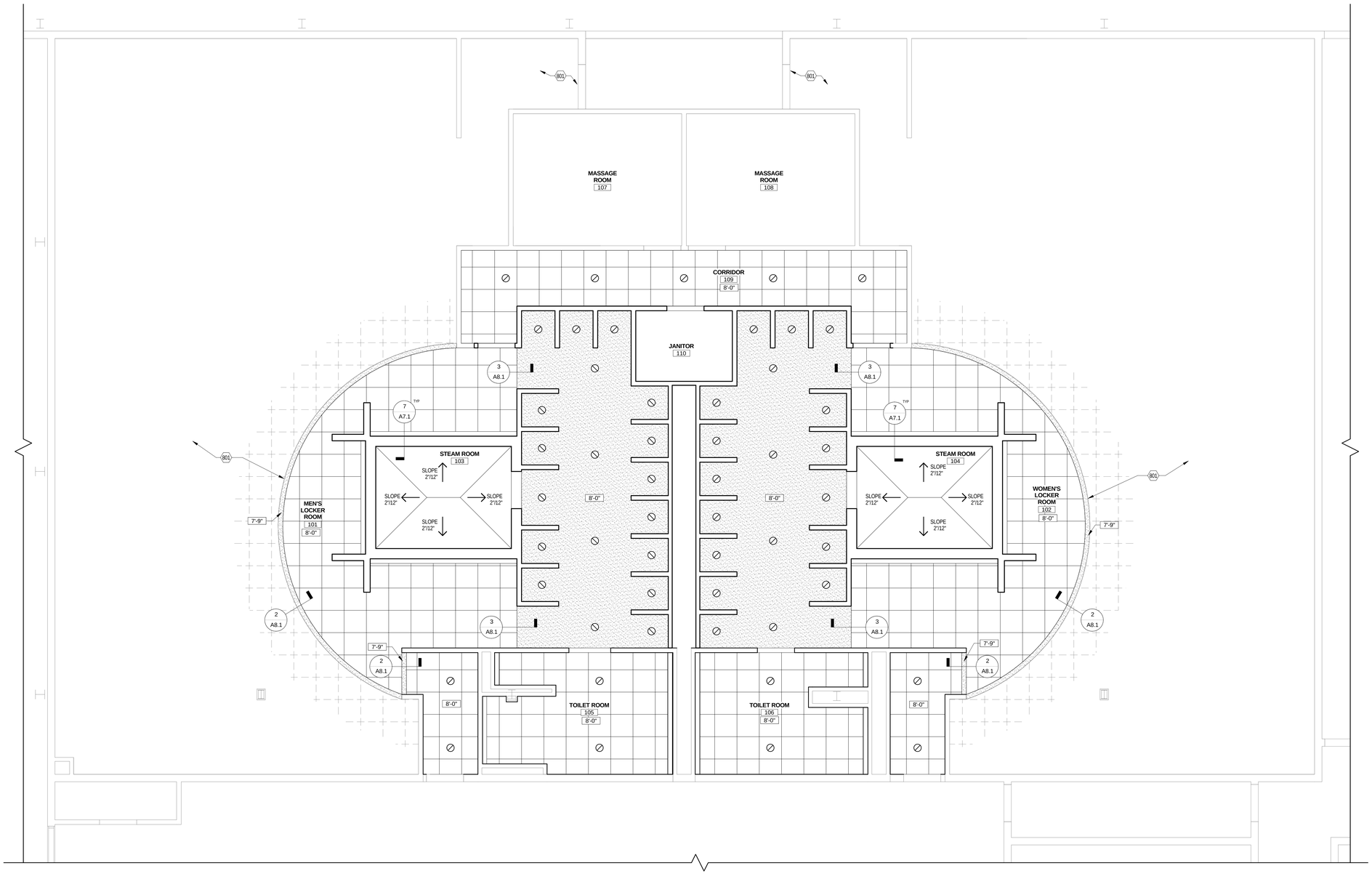
1. SEE SHEET G0.1 FOR GENERAL NOTES AND SYMBOLS.
2. SEE MECHANICAL DRAWINGS FOR COORDINATION OF DIFFUSER AND RETURN GRILLES.
3. SEE ELECTRICAL DRAWINGS FOR COORDINATION OF ELECTRICAL FIXTURES.
4. SEE ROOM FINISH PLANS FOR CEILING TYPES.
5. PROVIDE CONTROL JOINTS 20'-0" TO 25'-0" OC IN ALL GYP BD CEILINGS AND SOFFITS. COORDINATE LOCATIONS WITH ARCHITECT IN FIELD, UNO.
6. LOCATE ALL SPRINKLER HEADS IN THE CENTER OF CEILING TILES.
7. PATCH/REPAIR EXISTING CEILING SYSTEM AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION WHETHER OR NOT INDICATED ON PLANS.
8. ALL SUSPENDED CEILING SYSTEMS SHALL BE SUPPORTED FROM STRUCTURE ABOVE, CONNECTION TO THE ROOF DECK IS NOT PERMITTED.

REFLECTED CEILING PLAN LEGEND

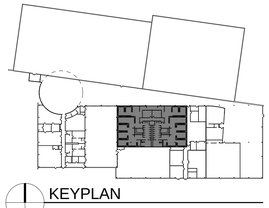
- 2'x2' ACOUSTICAL LAY-IN TILE AND SUSPENDED GRID
- 5/8" REINFORCED GYP BD ON SUSPENSION SYSTEM- PAINT WITH EPOXY PAINT
- PATCH EXISTING SUSPENDED GRID CEILING SYSTEM AFFECTED BY CONSTRUCTION. INFILL NEW SECTIONS OF GRID AS REQUIRED TO MATCH EXISTING. INFILL CEILING TILES WITH THOSE SALVAGED DURING DEMOLITION. REPLACE ANY MISSING OR DAMAGED TILES WITH NEW TO MATCH EXISTING.
- 9'-0" CEILING HEIGHT IDENTIFICATION TAG
- RECESSED LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- RECESSED DOWNLIGHT - SEE ELECTRICAL DRAWINGS
- HVAC SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
- HVAC RETURN GRILL - SEE MECHANICAL DRAWINGS

REFLECTED CEILING PLAN KEYNOTES

(801) PROVIDE NEW CEILING TILES IN EXISTING SUSPENDED GIRD.



1 FIRST FLOOR REFLECTED CEILING
1/4" = 1'-0"



KEYPLAN

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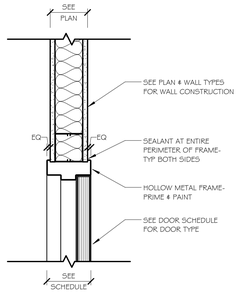
MARK	DATE
BID SET	04.03.2017

PROJECT No: 2017.08
DATE: APRIL 3, 2017
SHEET TITLE: FIRST FLOOR REFLECTED CEILING PLAN
SHEET: A8.1

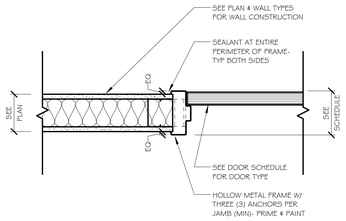
DOOR & FRAME REMARKS	
REMARKS	REMARK DESCRIPTION
1	EXISTING WOOD DOOR TO BE INSTALLED INTO NEW FRAME.

DOOR & FRAME SCHEDULE

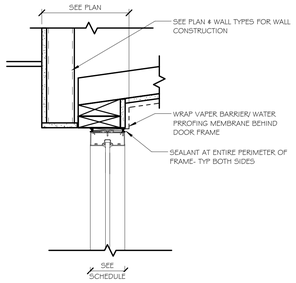
DOOR NO.	FIRE RATING (HR)	DOOR TYPE	DOOR MTRL	DOOR WIDTH	DOOR HEIGHT	FRAME TYPE	FRAME MTRL	FRAME WIDTH	FRAME HEIGHT	FRAME DEPTH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
101A	-	B	ALUM	3'-0"	7'-2"	F1	ALUM	3' - 4"	7' - 2"	4 1/2"	4/A9.1	5/A9.1	-	-
101B	-	EXIST.	-	-	-	F1	HM	3' - 4"	7' - 2"	5 3/4"	2/A9.1	3/A9.1	-	1
102A	-	B	ALUM	3'-0"	7'-2"	F1	ALUM	3' - 4"	7' - 2"	4 1/2"	4/A9.1	5/A9.1	-	-
102B	-	EXIST.	-	-	-	F1	HM	3' - 4"	7' - 2"	5 3/4"	2/A9.1	3/A9.1	-	1
110A	-	A	WD	3'-0"	7'-0"	F1	HM	3' - 4"	7' - 2"	5 3/4"	2/A9.1	3/A9.1	-	-



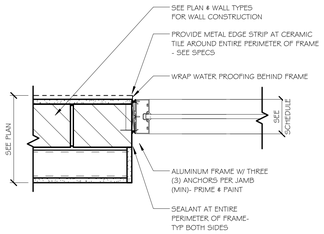
2 HEAD DETAIL- METAL STUD
1 1/2" = 1'-0"



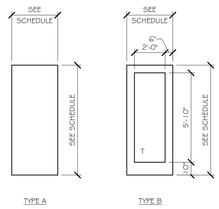
3 JAMB DETAIL- METAL STUD
1 1/2" = 1'-0"



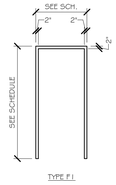
4 HEAD DETAIL- ALUMN
1 1/2" = 1'-0"



5 JAMB DETAIL- ALUMN
1 1/2" = 1'-0"



DOOR TYPES
1/4" = 1'-0"



FRAME TYPES
1/4" = 1'-0"

FINISH PLAN GENERAL NOTES

1. SEE SHEET G0.1 FOR GENERAL NOTES AND SYMBOLS.
2. SEE FLOOR PLANS FOR WALL CONSTRUCTION TYPES.
3. WHERE ANY DISCREPANCIES BETWEEN THE FINISH PLANS, ELEVATIONS AND SPECIFICATIONS OCCUR, ARCHITECT WILL DETERMINE FINISH.
4. FOR ALL AREAS TO RECEIVE NEW CARPET, INCLUDE 1/8" SKIM COAT AS REQUIRED FOR MATERIAL INSTALLATION.
5. PROVIDE VINYL TRANSITION STRIPS AT ALL LOCATIONS WHERE TRANSITIONS BETWEEN DISSIMILAR FLOORING FINISHES OR HEIGHTS OCCUR. SEE SPECIFICATIONS.
6. PROVIDE VINYL WALL BASE AT ALL BASE CABINETS.
7. REFER TO FINISH PLANS, INTERIOR ELEVATIONS, REFLECTED CEILING PLANS, AND DETAILS FOR PAINT COLOR LOCATIONS.
8. ALL NEW HOLLOW METAL DOORS AND FRAMES SHALL BE PAINTED PT-2.
9. ALL NEW GYPSUM BOARD CEILINGS AND SOFFITS TO BE PAINTED PT-3 UNLESS NOTED OTHERWISE.
10. FOR AREAS TO RECEIVE NEW CERAMIC FLOOR TILE, PROVIDE WATER PROOFING PER SPECIFICATIONS.

FINISH PLAN LEGEND

CPT-1: CARPET TILE

CT-1: CERAMIC TILE

EXISTING TO REMAIN

FINISH PLAN KEYNOTES

(9xx) FINISH PLAN KEYNOTES

(901) PAINT GYPSUM WALLS PT-4.

(902) PAINT EXISTING HOLLOW METAL FRAME PT-2.

(903) PROVIDE NEW LEVEL 5 SKIM COAT FINISH AND PAINT PT-1.

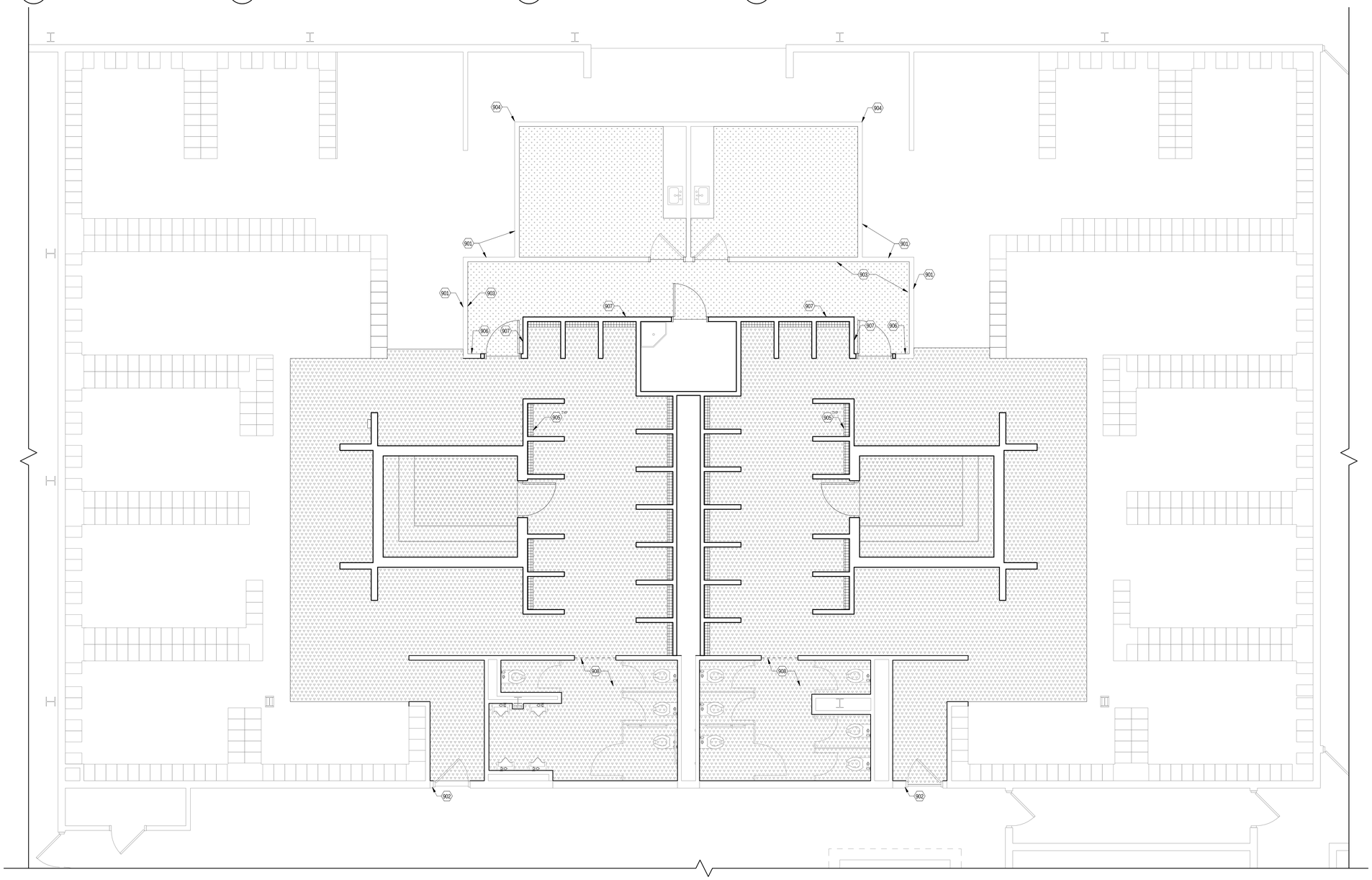
(904) PROVIDE BRUSHED ALUMINUM METAL EDGE AT EXISTING OUTSIDE CORNER OF GYPSUM BOARD WALL.

(905) SEE PLUMBING DRAWINGS FOR DRAIN COVER.

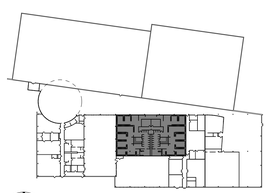
(906) PAINT GYPSUM BOARD WALL PT-1.

(907) PAINT GYPSUM BOARD WALLS (PT-5).

(908) ALTERNATE NO. 1: NEW CERAMIC FLOOR TILE.



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



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MARK	DATE
BID SET	04.03.2017

PROJECT No: 2017.08
DATE: APRIL 3, 2017
SHEET TITLE: FIRST FLOOR FINISH PLAN, DOOR SHCEDULE & DETAILS
SHEET: A9.1

DRAWING NOTES

1. REMOVE AND REINSTALL EXISTING WATER CLOSET AND FLUSH VALVE AS REQUIRED TO INSTALL NEW WALL.
2. REMOVE AND REINSTALL EXISTING URINAL AND FLUSH VALVE AS REQUIRED TO INSTALL NEW WALL.
3. EXISTING TRENCH DRAIN CHANNEL TO REMAIN. REMOVE EXISTING GRATE AND COVER THE TRENCH DRAIN DURING DEMOLITION PHASE TO KEEP OUT CONSTRUCTION DEBRIS. REFER TO NEW PLUMBING PLAN P1.1 FOR MORE WORK.
4. COVER THE FLOOR DRAIN/CLEANOUT DURING CONSTRUCTION TO KEEP OUT CONSTRUCTION DEBRIS AND PROTECT FROM DAMAGE BY TRAFFIC.
5. DISCONNECT PLUMBING SERVICE AND REMOVE EXISTING LAVATORY AND FAUCET. REMOVE TRAP, STOPS AND ALL ASSOCIATED PLUMBING TO THE ROUGH-IN. REFER TO NOTE 7/PD1.1 FOR MORE INFORMATION. EXISTING UNDER MOUNT LAVATORY WILL BE REUSED.
6. DISCONNECT PLUMBING SERVICE AND REMOVE EXISTING SHOWER HEAD AND VALVE. REFER TO NOTE 7/PD1.1 FOR MORE INFORMATION.
7. ALL EXISTING PLUMBING SERVICES W/IN WALL ARE TO REMAIN FOR NEW INSTALLATION. REPAIR ANY POSSIBLE DAMAGES TO THE PLUMBING ROUGH-IN. REFER TO PLUMBING DRAWING FOR MORE WORK.
8. EXISTING JANITOR CLOSET IS TO REMAIN. COVER THE JANITOR CLOSET DURING CONSTRUCTION TO KEEP OUT CONSTRUCTION. REMOVE FAUCET BUT KEEP DOMESTIC PIPING. REFER TO PLUMBING DRAWING P1.1 FOR MORE WORK.
9. DISCONNECT THE CW WATER AND REMOVE THE EXISTING HOSE BIB. REFER TO PLUMBING DRAWING P1.1 FOR MORE WORK.

GENERAL DEMO NOTES

A. THE CONTRACTOR SHALL VISIT THE SITE TO REVIEW THE EXISTING CONDITIONS AND DIFFICULTY OF THE WORK INVOLVED. FAILURE TO DO SO WILL IN NO WAY RELIEVE THE CONTRACTOR FROM FURNISHING ALL NECESSARY MATERIALS AND LABOR FOR A COMPLETE INSTALLATION AT NO ADDITIONAL COST TO THE OWNER.

B. THE DRAWINGS DO NOT SHOW ALL EXISTING CONDITIONS. THOSE CERTAIN EXISTING CONDITIONS SHOWN ARE IN DIAGRAMMATIC FORM. THE CONTRACTOR IS TO DETERMINE EXTENT OF EXISTING SYSTEMS, SIZES, AND LOCATIONS IN THE FIELD.

C. THE WORK SHOWN ON THIS SHEET IS NOT THE ENTIRE EXTENT OF DEMOLITION AND SHOULD BE USED IN CONJUNCTION WITH THE OTHER DRAWINGS AND FIELD VERIFICATION TO DETERMINE THE SCOPE OF DEMOLITION.

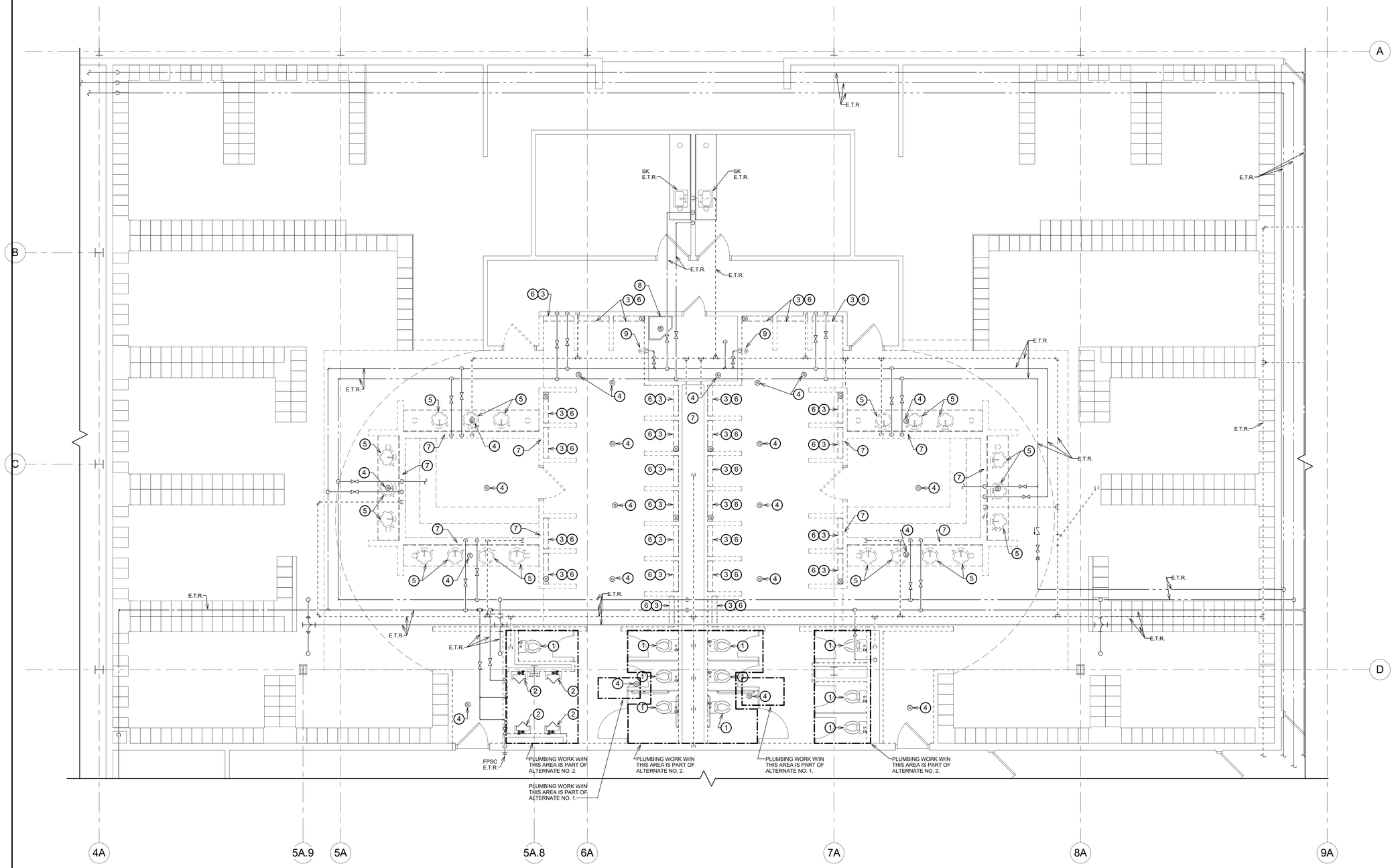
D. COORDINATE WITH THE OWNER SHUT-DOWNS OF EXISTING SERVICES AND SYSTEMS REQUIRED FOR THE DEMOLITION WORK. NOTIFY THE OWNER OF REQUIRED SHUT-DOWNS AND SCHEDULE ALLOWED SHUT-DOWN PERIODS. DO NOT SHUT-DOWN ANY SERVICES OR SYSTEM WITHOUT PRIOR AUTHORIZATION FROM THE OWNER.

E. CONTRACTOR IS TO REMOVE AND REPLACE EXISTING CEILINGS. PROVIDE PATCHING TO MATCH EXISTING ROOFS, WALLS AND FLOORS AS MADE NECESSARY BY THE DEMOLITION WORK, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE ARCHITECTURAL DRAWINGS.

F. UNUSED PLUMBING PIPING TO BE CAPPED IN ACCORDANCE WITH THE ILLINOIS PLUMBING CODE.

G. SCHEDULE AND COORDINATE ALL WORK TO MEET THE PROJECT PHASING.

H. E.T.R. - EXISTING TO REMAIN.



1 FIRST FLOOR PLAN - PLUMBING DEMOLTION
1/4" = 1'-0"

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MARK	DATE
BID SET	04.03.2017

PROJECT No: 2017.08
DATE: APRIL 3, 2017
SHEET TITLE: FIRST FLOOR PLAN - PLUMBING DEMOLITION
SHEET: PD1.1

DRAWING NOTES

1. REINSTALL THE WALL MOUNTED WC AND FLUSH VALVE IN THE SAME LOCATION. PROVIDE ALL NECESSARY SERVICE AND FINAL CONNECTION TO THE WC TO MAKE THE FIXTURE FULLY OPERABLE.
2. REINSTALL THE UR AND FLUSH VALVE IN THE SAME LOCATION. PROVIDE ALL NECESSARY SERVICE AND FINAL CONNECTION TO THE UR TO MAKE THE FIXTURE FULLY OPERABLE.
3. INSTALL NEW GRATE IN TOP OF EXISTING TRENCH DRAIN CHANNEL. PROVIDE BLANK CAP FOR THE EXISTING TRENCH DRAIN CHANNEL UNDER THE SHOWER STALL WALL. PROVIDE ALL NECESSARY SERVICES AND FINAL CONNECTIONS TO MAKE THE TRENCH DRAIN FULLY OPERABLE.
4. ADJUST ELEVATION OF EXISTING CLEANOUT COVER AND/OR FLOOR DRAIN STRAINERS TO BE LEVEL FOR FLOORING WORK
5. REINSTALL EXISTING UNDER MOUNT LAVATORY. PROVIDE NEW OFFSET PERFORATED GRID STRAINER, TRAP, STOPS AND WATER RISERS. PROVIDE NEW FAUCET INDICATED.
6. INSTALL NEW SHOWER ASSEMBLY IN THE SAME LOCATION. REWORK CW & HW ROUGH-IN AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR INSTALLATION HEIGHT.
7. INSTALL NEW FAUCET ASSEMBLY FOR EXITING JANITOR CLOSET. REWORK EXISTING CW & HW ROUGH-IN AS REQUIRED.
8. INSTALL NEW HOSE BIB HB-1.

GENERAL RENO NOTES

A. THE CONTRACTOR SHALL VISIT THE SITE TO REVIEW THE EXISTING CONDITIONS AND DIFFICULTY OF THE WORK INVOLVED. FAILURE TO DO SO WILL IN NO WAY RELIEVE THE CONTRACTOR FROM FURNISHING ALL NECESSARY MATERIALS AND LABOR FOR A COMPLETE INSTALLATION AT NO ADDITIONAL COST TO THE OWNER.

B. THE DRAWINGS DO NOT SHOW ALL EXISTING CONDITIONS. THOSE CERTAIN EXISTING CONDITIONS SHOWN ARE IN DIAGRAMMATIC FORM. THE CONTRACTOR IS TO DETERMINE EXTENT OF EXISTING SYSTEMS, SIZES, AND LOCATIONS IN THE FIELD.

C. COORDINATE ALL WORK WITH THE EXISTING CONDITIONS AND WITH WORK OF THE OTHER CONTRACTORS. FIELD VERIFY ALL PIPE ROUTING AND MAKE ANY ADJUSTMENTS TO THE WORK AND RELOCATION OF EXISTING MECHANICAL INSTALLATIONS REQUIRED FOR THE INSTALLATION OF ALL WORK ALL OF WHICH SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.

D. CONTRACTOR IS TO REMOVE AND REPLACE EXISTING CEILINGS. PROVIDE PATCHING TO MATCH EXISTING OF ROOF, WALLS, AND FLOORS AS MADE NECESSARY BY THE WORK, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE ARCHITECTURAL DRAWINGS.

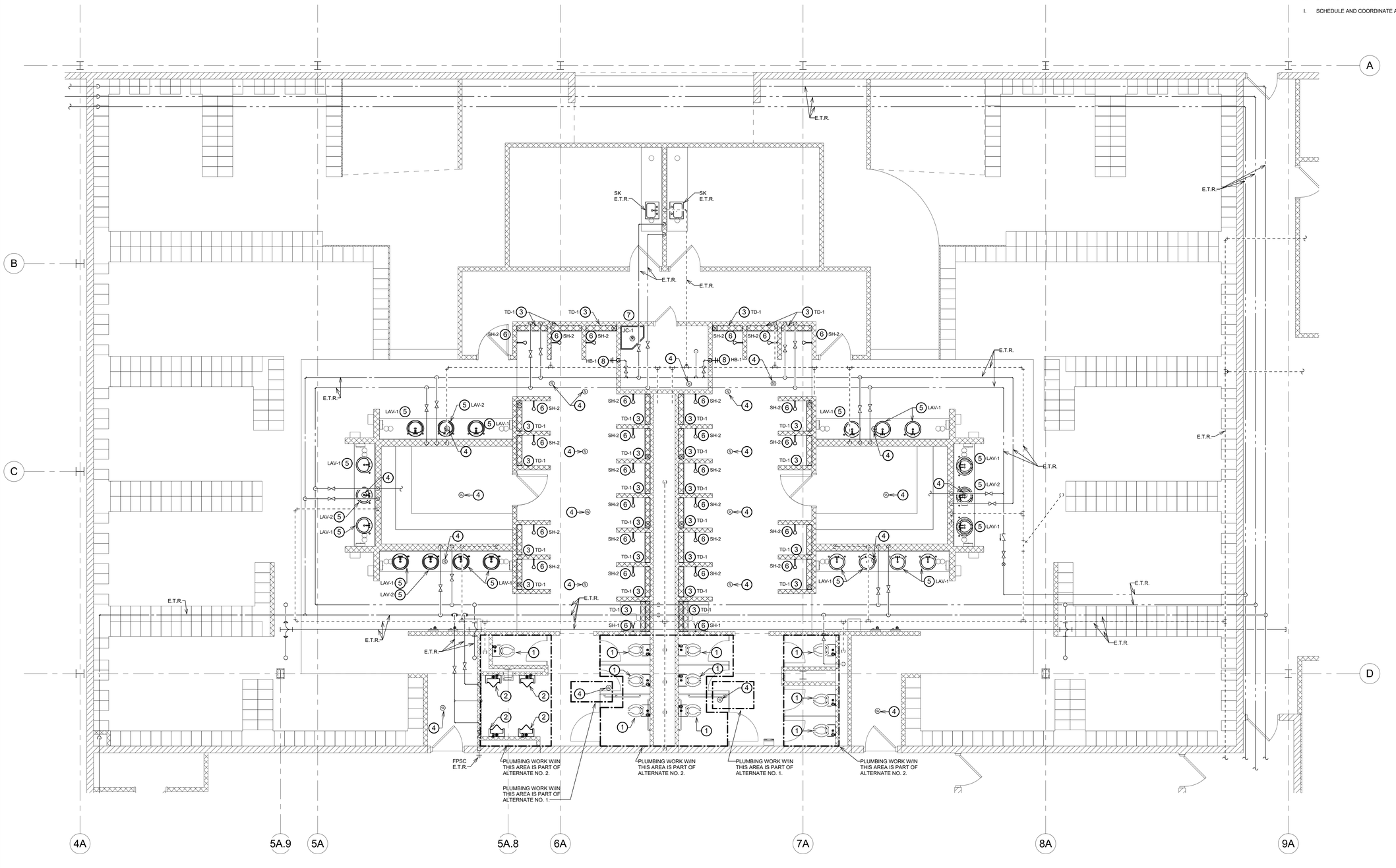
E. CONTRACTOR IS TO MAKE OPENINGS THROUGH EXISTING ROOF, WALLS AND FLOORS AS REQUIRED FOR THE WORK INCLUDING PATCHING TO MATCH EXISTING AND FIRE STOPPING.

F. COORDINATE WITH THE OWNER SHUT-DOWNS OF EXISTING SERVICES AND SYSTEMS REQUIRED FOR THE WORK. NOTIFY THE OWNER OF REQUIRED SHUT-DOWNS AND SCHEDULE ALLOWED SHUT-DOWN PERIODS. DO NOT SHUT-DOWN ANY SERVICES OR SYSTEMS WITHOUT PRIOR AUTHORIZATION FROM THE OWNER.

G. COORDINATE ALL WORK WITH THAT OF ALL OTHER TRADES IN ORDER TO AVOID INTERFERENCES.

H. E.T.R. - EXISTING TO REMAIN.

I. SCHEDULE AND COORDINATE ALL WORK TO MEET THE PROJECT PHASING.



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

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MARK	DATE
BID SET	04.03.2017

PROJECT No:	2017.08
DATE:	APRIL 3, 2017
SHEET TITLE:	FIRST FLOOR PLAN - PLUMBING
SHEET:	P1.1

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plumbing 847-352-4815 Fax
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PLUMBING SPECIFICATIONS

1.0 PLUMBING SYSTEMS

A. Domestic Cold and Hot Water Piping:

1. Installation:

a. Install copper tube and fittings according to ASTM B 828 or CDA's "Copper Tube Handbook."

b. Install piping, including mains, branches and runouts, with sufficient offsets to allow for free expansion and contraction, and sufficient to prevent leaks and over stressing of the piping system.

c. Install domestic water piping level without pitch and plumb.

d. Install piping to allow application of insulation.

e. Install groups of pipes parallel to each other, spaced to permit applying insulation and servicing of valves.

f. Install dielectric fittings in piping at connections of dissimilar metal piping and tubing.

g. Install valves for easy access, in horizontal piping with stem at or above center of pipe.

h. Maintain smoke and fire rating of walls, partitions, ceilings, and floors at pipe penetrations. Seal pipe penetrations with firestop materials.

i. Do not enclose, cover, or put piping into operation until it is inspected and approved by authorities having jurisdiction.

2. Materials:

a. Above Ground NPS 2 and smaller: Hard copper tube, wrought copper solder-joint fittings; and soldered joints.

1) Hard Copper Tube: ASTM B 88, Type L water tube, drawn temper.

2) Wrought-Copper Solder-Joint Fittings: ASME B16.22, wrought-copper pressure fittings.

b. Solder Filler Metals: ASTM B 32, lead-free alloys, Alloy Sn95, 95 percent tin, 5 percent silver, melting point 430 F to 536 F. Include water-flushable flux to the according to ASTM B 813.

c. Copper Unions: MSS SP-123, cast-copper-alloy, hexagonal-stock body, with ball-and-socket, metal-to-metal seating surfaces, and solder-joint or threaded ends. Use dielectric unions when joining dissimilar metals.

d. Ball Valves: MSS SP-110 standard, 600 psig CWP, two piece bronze body, solder ends, chrome-plated ball, PTFE or TFE seats, with extended operating handle of non-thermal-conductive material, and protective sleeve. Conbraco Industries, Inc. Apollo Valves Model 70-200, Milwaukee Valve Company Model BA-150, NIBCO INC. Model S-580-70.

B. Waste and Vent Piping:

1. Installation:

a. Install PVC soil and waste drainage and vent piping according to ASTM D 2665.

b. Make changes in direction for soil and waste drainage and vent piping using appropriate branches, bends, and long-sweep bends. Sanitary tees and short-sweep 1/4 bends may be used on vertical stacks if change in direction of flow is from horizontal to vertical. Use long-turn, double Y-branch and 1/8-bend fittings if 2 fixtures are installed back to back or side by side with common drain pipe. Straight tees, elbows, and crosses may be used on vent lines. Do not change direction of flow more than 90 degrees. Use proper size of standard increasers and reducers if pipes of different sizes are connected. Reducing size of drainage piping in direction of flow is prohibited.

c. Install soil and waste drainage and vent piping at the following minimum slopes, unless otherwise indicated:

1) Horizontal Sanitary Drainage Piping: 2 percent (1/4" per foot) downward in direction of flow.

2) Vent Piping: 1 percent (1/8" per foot) down toward vertical fixture vent or toward vent stack.

d. Install cleanout plugs at each 90 degree change in direction in suspended horizontal piping. Where not otherwise indicated, install cleanouts at 50' intervals in piping 4" and smaller. Install floor and wall clean outs at the locations indicated. If codes require closer spacing comply with the code.

e. Maintain fire rating of walls, partitions, ceilings, and floors at pipe penetrations. Seal pipe penetrations with firestop materials.

f. Do not enclose, cover, or put piping into operation until it is inspected and approved by authorities having jurisdiction.

2. Materials:

a. Above Ground: Solid-wall PVC pipe, PVC socket fittings, and solvent-cemented joints.

1) Solid-Wall PVC Pipe: ASTM D 2665, drain, waste, and vent.

2) PVC Socket Fittings: ASTM D 2665, socket type, made to ASTM D 3311, drain, waste, and vent patterns.

3) Solvent Cements for Joining PVC Piping: ASTM D 2564. Include primer according to ASTM F 656. Color of primer and cement to be as per the City or Village Code.

C. Plumbing Hangers and Supports:

1. Support piping and tubing listed in this article according to MSS SP-69 and manufacturer's written instructions.

2. Install the following pipe supports:

a. Vertical Piping: MSS Type 8 or 42, riser clamps.

b. Individual, Straight, Horizontal Piping Runs:

1) MSS Type 1, adjustable, steel clevis hangers.

2) MSS Type 9, adjustable, steel pipe ring hangers, are acceptable for NPS 2 and smaller non-insulated pipes.

c. Multiple, Straight, Horizontal Piping Runs: Arrange for grouping of parallel runs of piping and support together on field-assembled metal framing systems.

1) Cooper B-Line, Inc., Power-Strut, Unistrut Corp., MFMA-4, shop- or field-fabricated pipe-support assembly made of steel channels and other components, manufacturer's standard finish.

d. Use copper-clad hangers and supports for hangers and supports in direct contact with copper pipe.

3. Insulated Piping: Comply with the following:

a. Attach clamps and spacers to piping.

1) Piping Operating above Ambient Air Temperature: Clamp may project through insulation.

2) Piping Operating below Ambient Air Temperature: Use thermal-hanger shield insert with clamp sized to match OD of insert.

3) Do not exceed pipe stress limits according to ASME B31.9 for building services piping.

b. Install MSS SP-58, Type 40, protective shields. Shields shall span an arc of 180 degrees.

c. Shield Dimensions for Pipe: Not less than 12 inches long and 0.048 inch thick.

4. Install hangers for Domestic Water copper tubing with the following maximum horizontal spacing and minimum rod diameters:

a. NPS 3/4 and Smaller: 5 feet; 3/8-inch rod.

b. NPS 1: 6 feet; 3/8-inch rod.

c. NPS 1-1/4: 7 feet; 3/8-inch rod.

d. NPS 1-1/2 and NPS 2: 8 feet; 3/8-inch rod.

e. NPS 3: 10 feet; 1/2-inch rod.

f. Install supports for vertical copper tubing every 10 feet.

5. Install hangers for Sanitary Waste and Vent PVC piping with the following maximum horizontal spacing and minimum rod diameters:

a. NPS 1-1/2 and NPS 2: 4 feet; 3/8-inch rod.

b. NPS 3: 4 feet; 1/2-inch rod.

c. NPS 4 and 5: 4 feet; 5/8-inch rod.

d. NPS 6: 4 feet; 3/4-inch rod.

e. Spacing for 10 foot lengths may be increased to 10 feet. Spacing for fittings is limited to 5 feet.

f. Install supports for vertical PVC piping every 4 feet.

D. Plumbing Insulation:

1. Insulate all piping as listed with material as indicated.

2. Insulation shall be applied only after all tests have been completed.

3. Piping:

a. Materials:

1) Mineral-Fiber, Preformed Pipe Insulation: Mineral or glass fibers bonded with a thermosetting resin, comply with ASTM C 547, Type I, Grade A, with factory-applied ASJ or with factory-applied ASJ-SSL, 1 inch thick for piping 1-1/2" NPS and smaller, 1-1/2 inch thick for piping 2" NPS and larger, thermal conductivity (k-value) at 100 deg F is 0.23 Btu x in./h x sq. ft. x deg F or less.

2) PVC Fitting Covers: High-impact-resistant, UV-resistant PVC complying with ASTM D 1784, Class 16354-C, white, adhesive as recommended by jacket material manufacturer.

b. Applications:

1) Insulate domestic cold and hot water piping

2) Install fitted PVC cover over elbows, tees, and unions. Terminate ends with PVC end caps. Tape PVC covers to adjoining insulation facing using PVC tape.

4. Exposed Sanitary Drains, Domestic Water, Domestic Hot Water, and Stops for Plumbing Fixtures for People with Disabilities:

a. All Pipe Sizes: Insulation shall be the following:

1) Truebro, IPS Corporation, waste and supply piping covers.

END OF PLUMBING SPECIFICATION

PLUMBING EQUIPMENT LIST

A. LAV-1 Lavatory: (Accessible, Under Counter Mount)
1. Sloan EBF-850 Optima Plus, battery powered sensor operated faucet, brass body with corrosion-resistant internal components, copper or brass tubing, and polished chrome-plated finish on exposed parts, solenoid valve operation, (4) C alkaline batteries, 0.5 gpm.
2. Individual Fixture ASSE 1016 Thermostatic Mixing Valve, Lawler, Leonard, Powers, Symmons, Watts or Zurn.
3. Eljer 803-0530, American Standard 7723.018 or Kohler K7131-A-CP,
? non-removable perforated strainer with 1-1/4" offset tailpiece.
4. Chicago Faucet 1028 or McGuire H2165CC angle stop fittings, wheel handle, chrome plated, 5/8" OD comp. inlet, 3/8" comp. outlet, 3/8" x 12" long chrome plated lavatory supplies.
5. Chrome plated 1-1/4" 17 ga. cast brass adjustable P-trap with cleanout plug and wall flange.

B. LAV-2 Lavatory: (Accessible, Under Counter Mount)
1. Chicago Faucet No. 2200-4ABCP mixing faucet with 4" centers. Faucet and fittings to meet ADA. 2.2 gpm.
2. Individual Fixture ASSE 1016 Thermostatic Mixing Valve, Lawler, Leonard, Powers, Symmons, Watts or Zurn.
3. Eljer 803-0530, American Standard 7723.018 or Kohler K7131-A-CP,
? non-removable perforated strainer with 1-1/4" offset tailpiece.
4. Chicago Faucet 1028 or McGuire H2165CC angle stop fittings, wheel handle, chrome plated, 5/8" OD comp. inlet, 3/8" comp. outlet, 3/8" x 12" long chrome plated lavatory supplies.
5. Chrome plated 1-1/4" 17 ga. cast brass adjustable P-trap with cleanout plug and wall flange.

C. JC-1 Mop Basin
1. Chicago Faucet #911-IS, Zurn Z-873E2-EVB-IS, or T&S #B-695-ST built-in service sink mixing faucet with integral stops, commercial solid brass, polished chrome plate, internal flow control for 1.6 gpm, concealed wall mounting, 5-3/4 spout with 3/4" hose thread outlet, pail hook and wall brace, indexed cross handles, integral service stops, vacuum breaker assembly elevated 7'-0" above the floor.

D. SH-1 Shower (Accessible Type)
1. American Standard Companies, Inc., Model 1662SQ.223:
2. R120ss: pressure balancing water mixing valve with trim, cast brass body and brass stem, corrosion resistant internal components, ceramic disc valve cartridge with volume and temperature control, pressure balancing valve cartridge diaphragm system, high limit temperature stop, integral check valves, 1/2" sweat inlet/outlet, asse 1016.
3. T385.501 Reliant 3: Shower Head, pressure balance shower trim, wall valve trim with metal lever handle, metal wall escutcheon.
4. 1660.767.002: handheld shower system, 3-function hand shower, 36" slide bar, wall supply with 1/2 npt female inlet and 1/2 nps male outlet, inline vacuum breaker, hose, check valves.
5. R422: two-way in-wall diverter valve, forged brass body, mixed water inlet and two outlets, 1/2 npt inlet/outlet.
6. T342.430.heritage: diverter valve trim, lever handle.

E. SH-2 Shower
1. American Standard Companies, Inc.:
2. R120ss: pressure balancing water mixing valve with trim, cast brass body and brass stem, corrosion resistant internal components, ceramic disc valve cartridge with volume and temperature control, pressure balancing valve cartridge diaphragm system, high limit temperature stop, integral check valves, 1/2" sweat inlet/outlet, asse 1016.
3. T385.501 Reliant 3: Shower Head, pressure balance shower trim, wall valve trim with metal lever handle, metal wall escutcheon.

F. TD-1 Trench Drain Grate.
1. Trench Drain Grate to match manufacturer of existing channel drain. Drain grate to be stainless steel perforated similar to ACO Drain Type 451D.

G. HB-1 Concealed Wall Hydrant:
1. Woodford Manufacturing Company. Model 74.
2. self-draining wall hydrant, standard ASME A112.21.3M, 125 psig pressure rating, loose key operation, casing and operating rod: of length required to match wall thickness, wall clamp, NPS 3/4 inlet, concealed outlet with integral vacuum breaker and garden-hose thread complying with ASME B1.20.7, nickel bronze flush mounting box chrome plated, stainless steel or nikaloy finish, two keys with each hydrant.

PLUMBING SYMBOL LIST

CO	CLEANOUT
CW	DOMESTIC COLD WATER
DN	DOWN
FD	FLOOR DRAIN
HB	HOSE BIBB
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RECIRCULATION
LAV	LAVATORY
MB	MOP BASIN
SH	SHOWER
SK	SINK
UR	URINAL
WC	WATER CLOSET

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WET AREA RENOVATIONS
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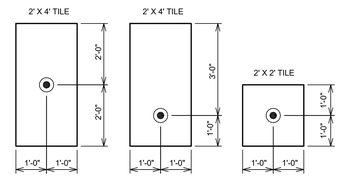
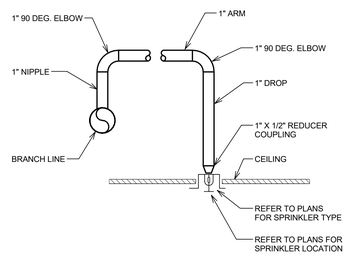
hepark building high ground

MARK	DATE
BID SET	04.03.2017

PROJECT No: 2017.08
DATE: APRIL 3, 2017
SHEET TITLE:
PLUMBING EQUIPMENT AND SPECIFICATIONS
SHEET:
P2.0



A TYPICAL SPRINKLER LOCATIONS
SCALE: NONE



B TYPICAL SPRINKLER DROP DETAIL
SCALE: NONE

FIRE SPRINKLER LEGEND

- SEMI-RECESSED SPRINKLER, QUICK RESPONSE. 165° F, ON CONCEALED PIPING.
- CONCEALED SPRINKLER HEAD, QUICK RESPONSE, 165° F, ON CONCEALED PIPING.
- C — INDICATES CORROSION RESISTANT SPRINKLER.
- E — EXISTING FIRE SPRINKLER IN EXISTING CEILING TO REMAIN.
- R R — REMOVE EXISTING FIRE SPRINKLER IN EXISTING CEILING. REINSTALL EXISTING FIRE SPRINKLER INTO NEW CEILING, ADJUST FIRE SPRINKLER AS NECESSARY.
- R N — REMOVE EXISTING FIRE SPRINKLER IN EXISTING CEILING. INSTALL SPECIFIED FIRE SPRINKLER TO CEILING AT THE LOCATION AS SHOWN.

GENERAL RENO NOTES

A. THE CONTRACTOR SHALL VISIT THE SITE TO REVIEW THE EXISTING CONDITIONS AND DIFFICULTY OF THE WORK INVOLVED. FAILURE TO DO SO WILL IN NO WAY RELIEVE THE CONTRACTOR FROM FURNISHING ALL NECESSARY MATERIALS AND LABOR FOR A COMPLETE INSTALLATION AT NO ADDITIONAL COST TO THE OWNER.

B. THE DRAWINGS DO NOT SHOW ALL EXISTING CONDITIONS. THOSE CERTAIN EXISTING CONDITIONS SHOWN ARE IN DIAGRAMMATIC FORM. THE CONTRACTOR IS TO DETERMINE EXTENT OF EXISTING SYSTEMS, SIZES, AND LOCATIONS IN THE FIELD.

C. COORDINATE ALL WORK WITH THE EXISTING CONDITIONS AND WITH WORK OF THE OTHER CONTRACTORS. FIELD VERIFY ALL PIPE ROUTING AND MAKE ANY ADJUSTMENTS TO THE WORK AND RELOCATION OF EXISTING MECHANICAL INSTALLATIONS REQUIRED FOR THE INSTALLATION OF ALL WORK ALL OF WHICH SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.

D. CONTRACTOR IS TO REMOVE AND REPLACE EXISTING CEILING. PROVIDE PATCHING TO MATCH EXISTING OF ROOF, WALLS, AND FLOORS AS MADE NECESSARY BY THE WORK, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE ARCHITECTURAL DRAWINGS.

E. CONTRACTOR IS TO MAKE OPENINGS THROUGH EXISTING ROOF, WALLS, AND FLOORS AS REQUIRED FOR THE WORK INCLUDING PATCHING TO MATCH EXISTING AND FIRE STOPPING.

F. COORDINATE WITH THE OWNER SHUT-DOWNS OF EXISTING SERVICES AND SYSTEMS REQUIRED FOR THE WORK. NOTIFY THE OWNER OF REQUIRED SHUT-DOWNS AND SCHEDULE ALLOWED SHUT-DOWN PERIODS. DO NOT SHUT-DOWN ANY SERVICE OR SYSTEM WITHOUT PRIOR AUTHORIZATION FROM THE OWNER.

G. COORDINATE ALL WORK WITH THAT OF ALL OTHER TRADES IN ORDER TO AVOID INTERFERENCES.

H. E.T.R. - EXISTING TO REMAIN.

FIRE PROTECTION SPECIFICATIONS
FIRE PROTECTION SYSTEMS

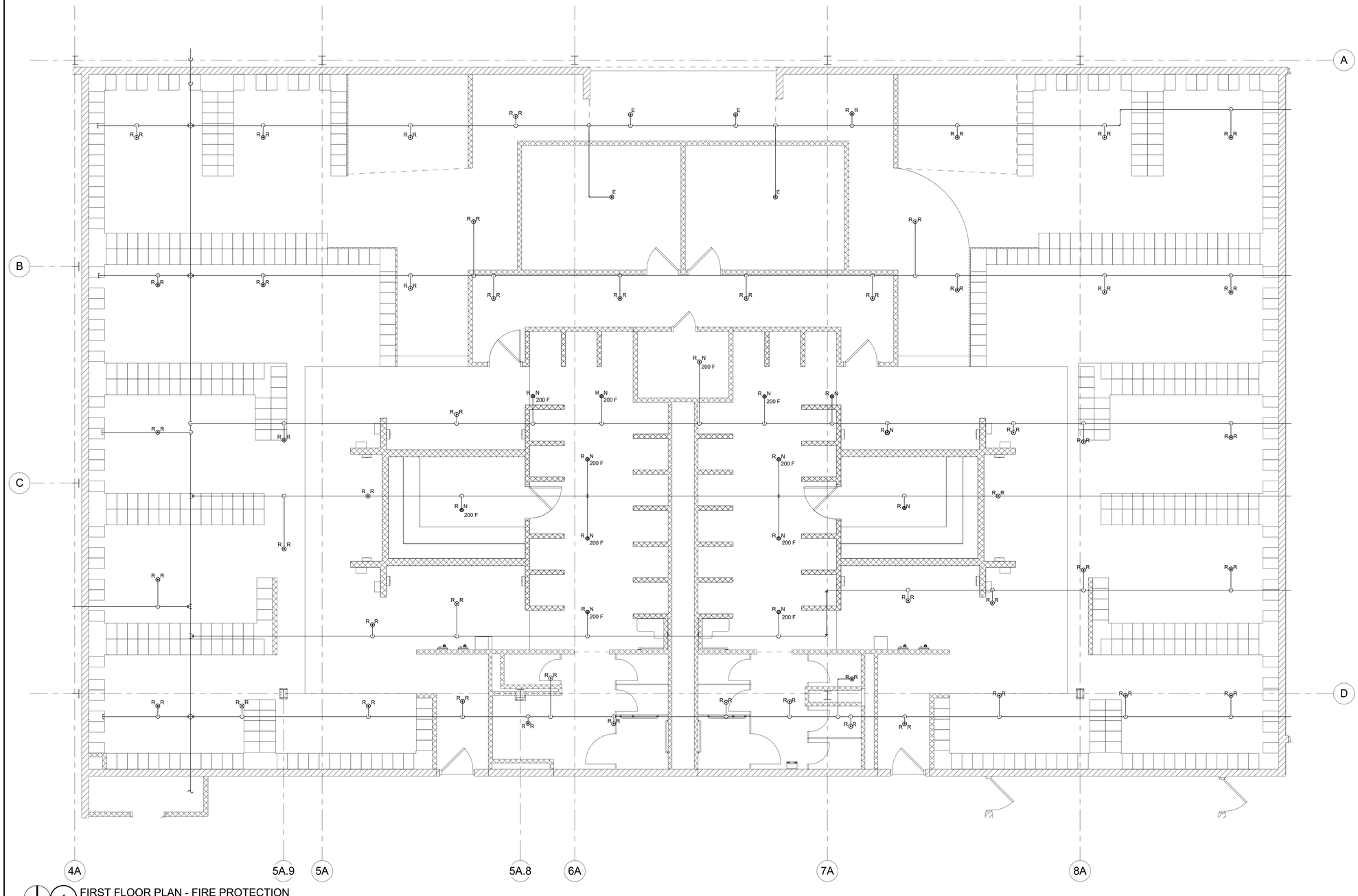
A. GENERAL:
1. MODIFY THE EXISTING WET PIPE FIRE SPRINKLER SYSTEM WITHIN THE WORK AREA INDICATED ON THE DRAWINGS. REMOVE THE EXISTING AND INSTALL PIPING AS REQUIRED FOR THE GENERAL, HVAC, PLUMBING, AND ELECTRICAL WORK, REMOVE THE EXISTING FIRE SPRINKLERS AND PROVIDE SPECIFIED SPRINKLERS IN THE LOCATIONS SHOWN ON THE DRAWINGS. PROVIDE A COMPLETE WET PIPE FIRE SPRINKLER SYSTEM FOR THE AREA OF WORK TO MEET THE REQUIREMENTS OF THE NEW PLAN AND USE. MAINTAIN FIRE PROTECTION SERVICE TO AREAS OUTSIDE THE SCOPE OF WORK.

B. REGULATORY REQUIREMENTS:
1. COMPLY WITH THE PROVISIONS OF THE FOLLOWING:
   a. NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.
2. COMPLY WITH REQUIREMENTS OF LOCAL JURISDICTION.
3. INSTALL SPRINKLER PIPING TO PROVIDE FOR SYSTEM DRAINAGE IN ACCORDANCE WITH NFPA 13.
4. USE APPROVED FITTINGS TO MAKE ALL CHANGES IN DIRECTION, BRANCH TAKEOFFS FROM MAINS, AND REDUCTIONS IN PIPE SIZES.
5. COMPLY WITH THE REQUIREMENTS OF NFPA 13 FOR HANGERS AND SUPPORTS.

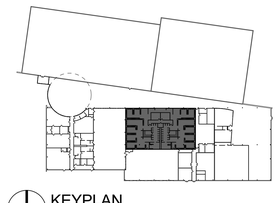
C. FIRE SPRINKLER INSTALLATION: USE PROPER TOOLS TO PREVENT DAMAGE DURING INSTALLATIONS.
1. SPRINKLERS SHALL BE GENERALLY INSTALLED IN AN UPRIGHT POSITION, EXCEPT IN ROOMS WITH A SUSPENDED CEILING, WHERE CONCEALED OR RECESSED PENDANT TYPE SPRINKLERS SHALL BE INSTALLED, WITH THE PIPING CONCEALED ABOVE THE SUSPENDED CEILING.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR SPRINKLER LOCATIONS, INSTALL SPRINKLER IN LOCATION SHOWN UNLESS REQUIRED OTHERWISE TO MEET REQUIREMENTS OF NFPA 13, FACTORY MUTUAL OR GOVERNING AUTHORITIES.
   a. PENDENT FIRE SPRINKLERS SHALL BE LOCATED AT CENTER OF CEILING TILES, OR AS INDICATED ON THE DRAWINGS.

D. FIRE SPRINKLER TYPES:
1. IN ALL AREAS WITH CEILINGS USE AS INDICATED ON THE DRAWINGS RECESSED BRIGHT CHROME SPRINKLERS WITH BRIGHT CHROME ESCUTCHEON, OR CONCEALED STYLE SPRINKLERS WITH FACTORY-PAINTED WHITE OR CHROME COVER PLATE.
2. IN AREAS WHERE SPRINKLERS ARE EXPOSED TO VIEW USE UPRIGHT SPRINKLERS, CHROME PLATED FINISH IN FINISHED SPACES, ROUGH BRONZE FINISH FOR HEADS IN UNFINISHED SPACES.
3. USE QUICK RESPONSE TYPE SPRINKLERS IN ALL LIGHT HAZARD AREAS.
4. FIRE PROTECTION SPRINKLERS:
   a. USE SAME MANUFACTURE AS USED IN THE EXISTING BUILDING.
   b. MANUFACTURER: VIKING CORPORATION.
   c. STANDARD: UL'S "FIRE PROTECTION EQUIPMENT DIRECTORY" LISTING OR "APPROVAL GUIDE," PUBLISHED BY FM GLOBAL, LISTING.
   d. PRESSURE RATING FOR AUTOMATIC SPRINKLERS: 175 PSIG MINIMUM.

E. PIPING MATERIALS:
1. NPS 2 AND SMALLER: STANDARD-WEIGHT BLACK-STEEL PIPE WITH THREADED ENDS; UNCOATED, GRAY-IRON THREADED FITTINGS; AND THREADED JOINTS.
   a. STANDARD WEIGHT, BLACK-STEEL PIPE: ASTM A 53, TYPE E, GRADE B. PIPE ENDS MAY BE FACTORY OR FIELD FORMED TO MATCH JOINING METHOD.
   b. BLACK-STEEL PIPE NIPPLES: ASTM A 733, MADE OF ASTM A 53, STANDARD-WEIGHT, SEAMLESS STEEL PIPE WITH THREADED ENDS.
   c. UNCOATED, STEEL COUPLINGS: ASTM A 865, THREADED.
   d. UNCOATED, GRAY-IRON THREADED FITTINGS: ASME B16.4, CLASS 125, STANDARD PATTERN.
2. NPS 2-1/2 AND LARGER: SCHEDULE 10, BLACK-STEEL PIPE WITH ROLL-GROOVED ENDS; UNCOATED, GROOVED-END FITTINGS FOR STEEL PIPING; GROOVED-END-PIPE COUPLINGS FOR STEEL PIPING; AND GROOVED JOINTS.
   a. SCHEDULE 10, BLACK-STEEL PIPE: ASTM A 135 OR ASTM A 795, SCHEDULE 10 IN NPS 5 AND SMALLER; AND NFPA 13-SPECIFIED WALL THICKNESS IN NPS 6 TO NPS 10, PLAIN END.
   b. GROOVED-JOINT, STEEL-PIPE APPURTENANCES:
      1) MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
         a) TYCO FIRE & BUILDING PRODUCTS LP.
         b) VICTAULIC COMPANY.
      2) PRESSURE RATING: 175 PSIG MINIMUM.
      3) UNCOATED, GROOVED-END FITTINGS FOR STEEL PIPING: ASTM A 47, MALLEABLE-IRON CASTING OR ASTM A 536, DUCTILE-IRON CASTING; WITH DIMENSIONS MATCHING STEEL PIPE.
      4) GROOVED-END-PIPE COUPLINGS FOR STEEL PIPING: AWWA C606 AND UL 213, RIGID PATTERN, UNLESS OTHERWISE INDICATED, FOR STEEL-PIPE DIMENSIONS. INCLUDE FERROUS HOUSING SECTIONS, EPDM-RUBBER GASKET, AND BOLTS AND NUTS.



1 FIRST FLOOR PLAN - FIRE PROTECTION
1/4" = 1'-0"



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hepark

MARK	DATE
BID SET	04.03.2017

PROJECT No: 2017.08
DATE: APRIL 3, 2017
SHEET TITLE: FIRST FLOOR PLAN - FIRE PROTECTION
SHEET: FP1.1

DRAWING NOTES

1. EXISTING STEAM PIPING IS TO REMAIN.
2. EXISTING PIPING IS TO REMAIN.
3. EXISTING DUCT UP THROUGH ROOF IS TO REMAIN.
4. EXISTING S.A. DIFFUSER IS TO REMAIN.
5. EXISTING R.A., E.A., OR T.A. GRILLE IS TO REMAIN.
6. REMOVE EXISTING STEAM GENERATOR, AND CONTROLS. REPLACE WITH NEW STEAM GENERATOR.
7. EXISTING THERMOSTAT IS TO REMAIN.
8. EXISTING HUMIDITY SENSOR IS TO REMAIN.
9. DISCONNECT DUCTWORK AND REMOVE EXISTING S.A. DIFFUSER, MOVE DIFFUSER OR GRILLE TO TEMPORARY SECURE ON SITE STORAGE, FOR REINSTALLATION.
10. DISCONNECT DUCTWORK AND REMOVE EXISTING R.A. OR E.A. GRILLE.
11. DISCONNECT CONTROL WIRING AND REMOVE EXISTING STEAM SENSOR.
12. DISCONNECT STEAM PIPING AND REMOVE EXISTING STEAM HEADS.
13. REMOVE EXISTING STEAM PIPING DN IN WALL.

GENERAL DEMO NOTES

A. THE CONTRACTOR SHALL VISIT THE SITE TO REVIEW THE EXISTING CONDITIONS AND DIFFICULTY OF THE WORK INVOLVED. FAILURE TO DO SO WILL IN NO WAY RELIEVE THE CONTRACTOR FROM FURNISHING ALL NECESSARY MATERIALS AND LABOR FOR A COMPLETE INSTALLATION AT NO ADDITIONAL COST TO THE OWNER.

B. THE DRAWINGS DO NOT SHOW ALL EXISTING CONDITIONS. THOSE CERTAIN EXISTING CONDITIONS SHOWN ARE IN DIAGRAMMATIC FORM. THE CONTRACTOR IS TO DETERMINE EXTENT OF EXISTING SYSTEMS, SIZES, AND LOCATIONS IN THE FIELD.

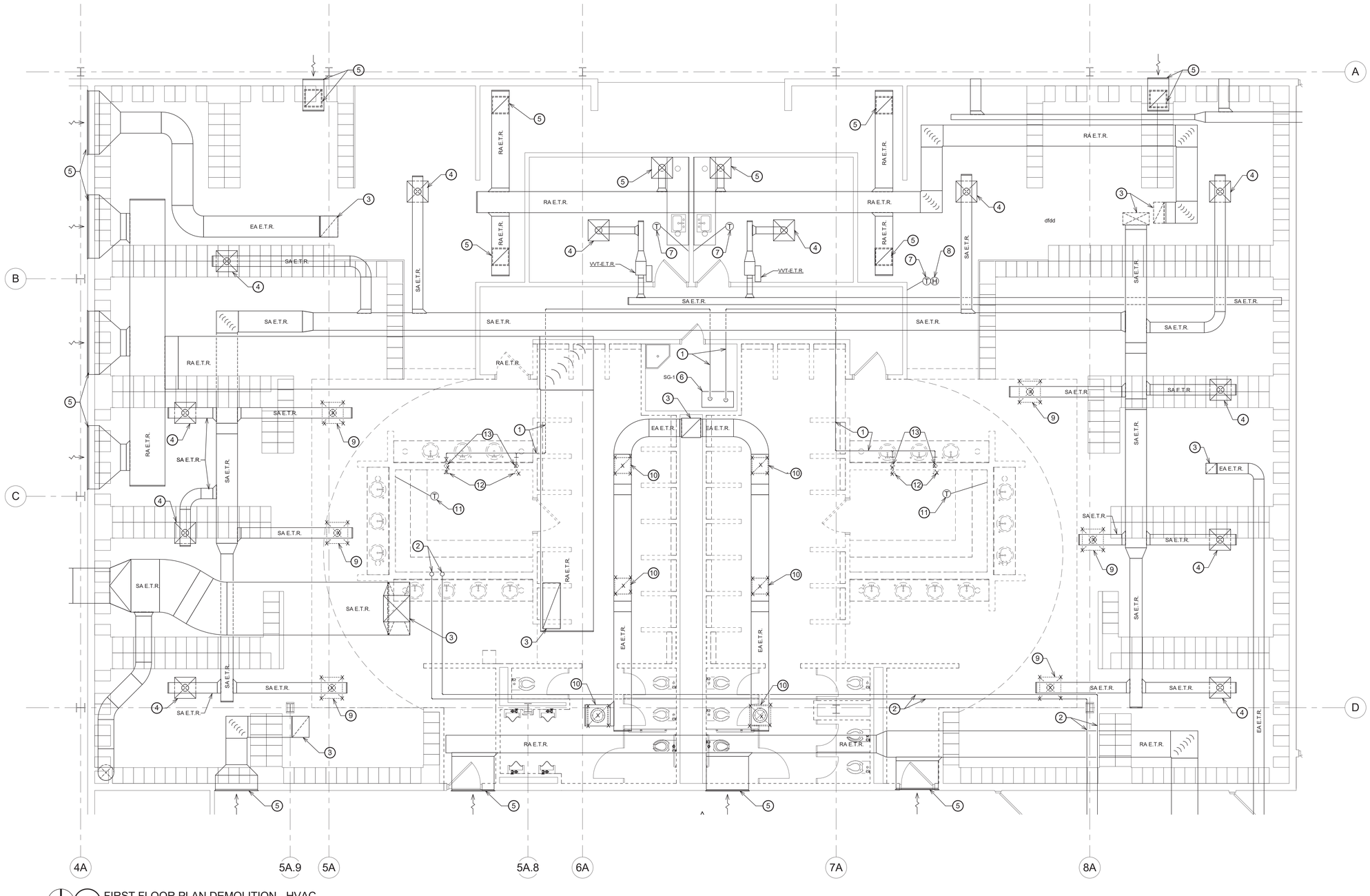
C. THE WORK SHOWN ON THIS SHEET IS NOT THE ENTIRE EXTENT OF DEMOLITION AND SHOULD BE USED IN CONJUNCTION WITH THE OTHER DRAWINGS AND FIELD VERIFICATIONS TO DETERMINE THE SCOPE OF DEMOLITION.

D. COORDINATE WITH OWNER SHUT-DOWNS OF EXISTING SERVICES AND SYSTEMS REQUIRED FOR THE DEMOLITION WORK. NOTIFY THE OWNER OF REQUIRED SHUT-DOWNS AND SCHEDULE ALLOWED SHUT-DOWN PERIODS. DO NOT SHUT-DOWN ANY SERVICES OR SYSTEM WITHOUT PRIOR AUTHORIZATION FROM THE OWNER.

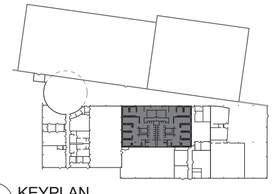
E. CONTRACTOR IS TO REMOVE AND REPLACE EXISTING CEILING. PROVIDE PATCHING TO MATCH EXISTING OF ROOF, WALLS AND FLOORS AS MADE NECESSARY BY THE DEMOLITION WORK, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE ARCHITECTURAL DRAWINGS.

F. E.T.R. - EXISTING TO REMAIN.

G. SCHEDULE AND COORDINATE ALL WORK TO MEET THE PROJECT PHASING.



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



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BID SET	04.03.2017

PROJECT No:	2017.08
DATE:	APRIL 3, 2017
SHEET TITLE:	FIRST FLOOR PLAN - HVAC DEMOLITION
SHEET:	MD1.1

DRAWING NOTES

1. EXISTING STEAM PIPING IS TO REMAIN.
2. EXISTING PIPING IS TO REMAIN.
3. EXISTING DUCT UP THROUGH ROOF IS TO REMAIN.
4. EXISTING S.A. DIFFUSER IS TO REMAIN.
5. EXISTING R.A., E.A., OR T.A. GRILLE IS TO REMAIN.
6. NEW STEAM GENERATOR.
7. EXISTING THERMOSTAT IS TO REMAIN.
8. EXISTING HUMIDITY SENSOR IS TO REMAIN.
9. REINSTALL EXISTING S.A. DIFFUSER, E.A. GRILLE. AIR BALANCE S.A. OUTLET OR E.A. INLET TO THE INDICATED AIR QUANTITY (CFM).
10. CONNECT TO EXISTING DUCTWORK. VD TO BE INSTALLED IN DROP TO EXHAUST GRILLE.
11. NEW STEAM SENSOR PROVIDED WITH STEAM GENERATOR. MOUNT 5'-0" ABOVE STEAM ROOM FLOOR.
12. NEW STEAM HEAD. COORDINATE LOCATION WITH ARCHITECT.
13. CONNECT TO EXISTING STEAM PIPING.
14. STEAM PIPING ON IN WALL TO STEAM JETS. SIZE AS INDICATED. REINSULATE PIPING TO MATCH EXISTING.

GENERAL RENO NOTES

A. THE CONTRACTOR SHALL VISIT THE SITE TO REVIEW THE EXISTING CONDITIONS AND DIFFICULTY OF THE WORK INVOLVED. FAILURE TO DO SO WILL IN NO WAY RELIEVE THE CONTRACTOR FROM FURNISHING ALL NECESSARY MATERIALS AND LABOR FOR A COMPLETE INSTALLATION AT NO ADDITIONAL COST TO THE OWNER.

B. THE DRAWINGS DO NOT SHOW ALL EXISTING CONDITIONS. THOSE CERTAIN EXISTING CONDITIONS SHOWN ARE IN DIAGRAMMATIC FORM. THE CONTRACTOR IS TO DETERMINE EXTENT OF EXISTING SYSTEMS, SIZES, AND LOCATIONS IN THE FIELD.

C. COORDINATE ALL WORK WITH THE EXISTING CONDITIONS AND WITH WORK OF THE OTHER CONTRACTORS. FIELD VERIFY DUCT AND PIPE ROUTING AND MAKE ANY ADJUSTMENTS TO THE WORK AND RELOCATION OF EXISTING MECHANICAL INSTALLATIONS REQUIRED FOR THE INSTALLATION OF ALL WORK ALL OF WHICH SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.

D. CONTRACTOR IS TO REMOVE AND REPLACE EXISTING CEILING. PROVIDE PATCHING TO MATCH EXISTING OF ROOF, WALLS, AND FLOORS AS MADE NECESSARY BY THE WORK, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE ARCHITECTURAL DRAWINGS.

E. CONTRACTOR IS TO MAKE OPENING THROUGH EXISTING ROOF, WALLS, AND FLOORS AS REQUIRED FOR THE WORK INCLUDING PATCHING TO MATCH EXISTING AND FIRE STOPPING.

F. COORDINATE WITH THE OWNER SHUT-DOWNS OF EXISTING SERVICES AND SYSTEMS REQUIRED FOR THE WORK. NOTIFY THE OWNER OF REQUIRED SHUT-DOWNS AND SCHEDULE ALLOWED SHUT-DOWN PERIODS. DO NOT SHUT-DOWN ANY SERVICE OR SYSTEM WITHOUT PRIOR AUTHORIZATION FROM THE OWNER.

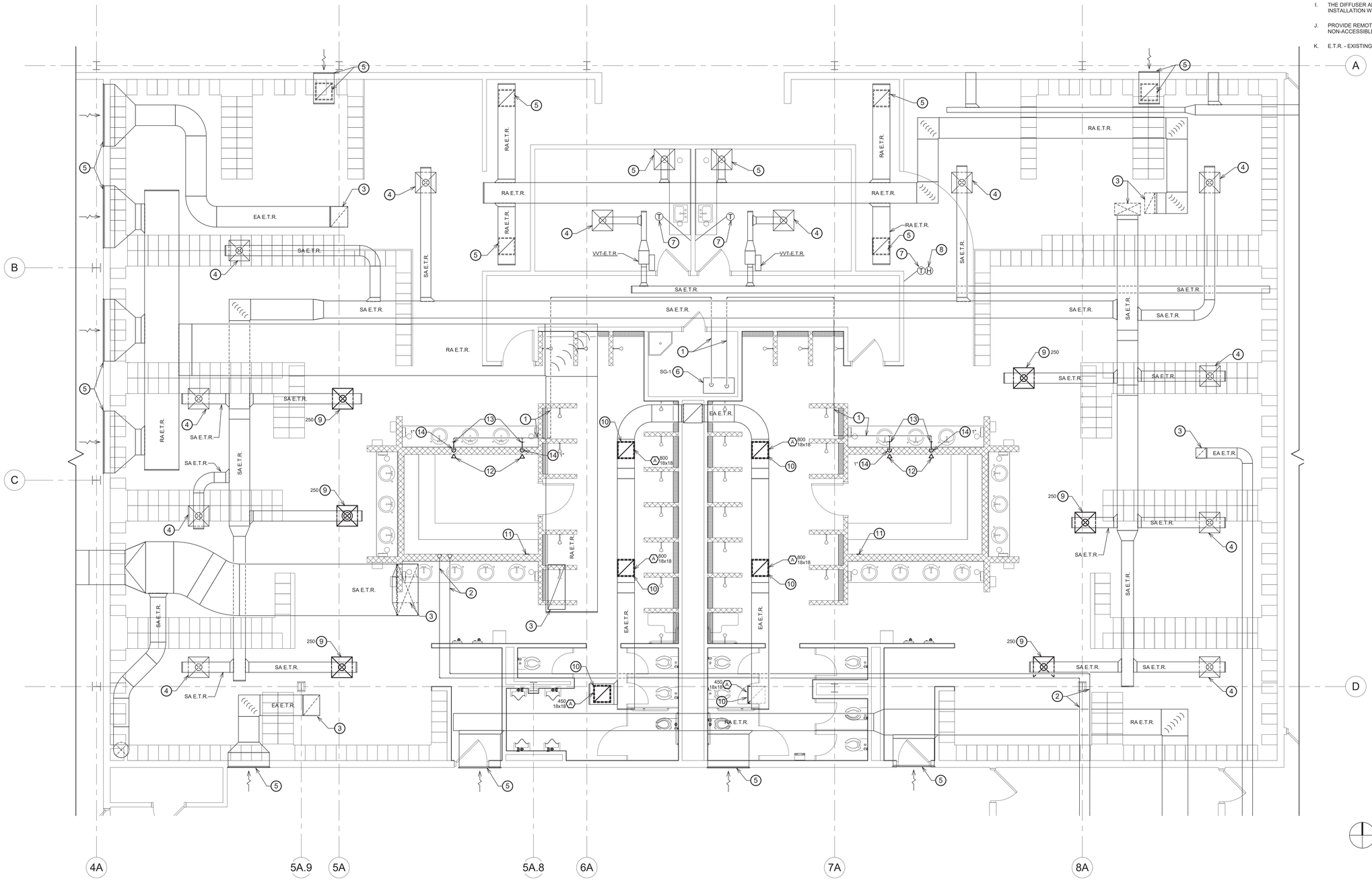
G. COORDINATE ALL WORK WITH THAT OF ALL OTHER TRADES IN ORDER TO AVOID INTERFERENCES.

H. COORDINATE REQUIREMENTS AND MAKE FINAL CONNECTIONS TO EQUIPMENT FURNISHED BY THE OWNER AND OTHER CONTRACTORS.

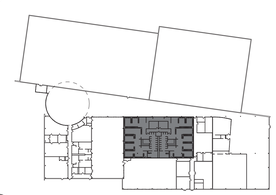
I. THE DIFFUSER AND GRILLE LOCATIONS ARE APPROXIMATE. COORDINATE INSTALLATION WITH ARCHITECTURAL REFLECTED CEILING PLANS.

J. PROVIDE REMOTE DAMPER OPERATOR FOR EACH VOLUME DAMPER LOCATED IN NON-ACCESSIBLE CEILINGS OR SOFFITS.

K. E.T.R. - EXISTING TO REMAIN.



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



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MARK	DATE
BID SET	04.03.2017

PROJECT No: 2017.08
DATE: APRIL 3, 2017
SHEET TITLE: FIRST FLOOR PLAN - HVAC
SHEET: M1.1

HVAC SPECIFICATIONS

HVAC DUCTWORK SYSTEMS

A. INSTALLATION:
1. INSTALL DUCTS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE" UNLESS OTHERWISE INDICATED.

B. HANGER AND SUPPORT INSTALLATION:
1. COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE," CHAPTER 5, "HANGERS AND SUPPORTS."
2. HANGER SPACING: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE," TABLE 5–1, "RECTANGULAR DUCT HANGERS MINIMUM SIZE," AND TABLE 5–2, "MINIMUM HANGER SIZES FOR ROUND DUCT," FOR MAXIMUM HANGER SPACING; INSTALL HANGERS AND SUPPORTS WITHIN 24 INCHES OF EACH ELBOW AND WITHIN 48 INCHES OF EACH BRANCH INTERSECTION.
3. SUPPORT VERTICAL DUCTS WITH STEEL ANGLES OR CHANNEL SECURED TO THE SIDES OF THE DUCT WITH WELDS, BOLTS, SHEET METAL SCREWS, OR BLIND RIVETS; SUPPORT AT EACH FLOOR AND AT A MAXIMUM INTERVALS OF 16 FEET.
4. INSTALL UPPER ATTACHMENTS TO STRUCTURES. SELECT AND SIZE UPPER ATTACHMENTS WITH PULL–OUT, TENSION, AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.

C. SINGLE–WALL RECTANGULAR DUCTS AND FITTINGS:
1. FABRICATE DUCTS IN ACCORDANCE WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE" BASED ON INDICATED STATIC–PRESSURE CLASS.
   a. SELECT TRANSVERSE JOINT TYPES AND FABRICATE ACCORDING TO FIGURE 2–1, "RECTANGULAR DUCT/TRANSVERSE JOINTS, " FOR STATIC–PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT–SUPPORT INTERVALS, AND OTHER PROVISIONS.
   b. USE LONGITUDINAL SEAM TYPES L–1, L–3 THROUGH L–5 AND FABRICATE ACCORDING TO FIGURE 2–2, "RECTANGULAR DUCTS LONGITUDINAL SEAMS," FOR STATIC–PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT–SUPPORT INTERVALS, AND OTHER PROVISIONS.
      1) DO NOT USE BUTTON PUNCH SNAPLOCK SEAM TYPE L–2.
2. USE ELBOWS, TRANSITIONS, OFFSETS, BRANCH CONNECTIONS, AND OTHER DUCT CONSTRUCTION TYPES AS INDICATED IN "DUCT SCHEDULE" ARTICLE, AND FABRICATE ACCORDING TO CHAPTER 4, "FITTINGS AND OTHER CONSTRUCTION," FOR STATIC–PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT–SUPPORT INTERVALS, AND OTHER PROVISIONS.

D. SINGLE–WALL ROUND DUCTS AND FITTINGS:
1. FABRICATE DUCTS IN ACCORDANCE WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE," CHAPTER 3, "ROUND, OVAL, AND FLEXIBLE DUCT," BASED ON INDICATED STATIC–PRESSURE CLASS UNLESS OTHERWISE INDICATED.
   a. SELECT TRANSVERSE JOINT TYPES AND FABRICATE ACCORDING TO FIGURE 3–1, "ROUND DUCT TRANSVERSE JOINTS," FOR STATIC–PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT–SUPPORT INTERVALS, AND OTHER PROVISIONS.
   b. USE LONGITUDINAL SEAM TYPES RL–1, RL–4, RL–5 AND FABRICATE ACCORDING TO FIGURE 3–1, "SEAMS – ROUND DUCT AND FITTINGS," FOR STATIC–PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT–SUPPORT INTERVALS, AND OTHER PROVISIONS.
      1) DO NOT USE SNAPLOCK SEAM TYPE RL–6A THROUGH RL–8.
2. USE ELBOWS, TEES AND LATERALS, CONICAL TEES, AND OTHER DUCT CONSTRUCTION TYPES AS INDICATED IN "DUCT SCHEDULE" ARTICLE, AND FABRICATE ACCORDING TO FIGURES 3–4, 3–5, 3–6, 3–7 FOR STATIC–PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT–SUPPORT INTERVALS, AND OTHER PROVISIONS.

E. FLEXIBLE DUCTS:
1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING;
   a. FLEXMASTER U.S.A., INC., MODEL 8M.
   b. FLEXIBLE TECHNOLOGIES, INC., MODEL M–KE.
2. INSULATED, FLEXIBLE DUCT: UL 181, CLASS 1, ACOUSTICALLY TRANSPARENT CPE INNER FILM SUPPORTED BY HELICALLY WOUND, SPRING–STEEL WIRE; FIBROUS–GLASS INSULATION; REINFORCED METALIZED VAPOR–BARRIER.
3. PRESSURE RATING: 10–INCH WG POSITIVE AND 1.0–INCH WG NEGATIVE.
4. MAXIMUM AIR VELOCITY: 4000 FPM.
5. TEMPERATURE RANGE: MINUS 20 TO PLUS 250 DEG F.
6. INSULATION R–VALUE: COMPLY WITH ASHRAE/IESNA 90.1–2004.

F. VOLUME DAMPERS:
1. FABRICATE IN ACCORDANCE WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE," CHAPTER 7, "ACCESSORIES"
2. USE MULTIPLE BLADE, EXCEPT SINGLE BLADE IS ACCEPTABLE FOR DAMPERS 12" OR LESS HIGH.
   a. FIGURE 7–4, "VOLUME DAMPERS–SINGLE BLADE TYPE."
   b. FIGURE 7–5, "MULTIBLADE VOLUME DAMPERS."

G. DUCT SCHEDULE
1. FABRICATE DUCTS WITH GALVANIZED SHEET STEEL EXCEPT AS OTHERWISE INDICATED AND SEAL:
   a. GALVANIZED SHEET STEEL, ASTM A 653, G90 GALVANIZED COATING DESIGNATION.
   b. WATER–BASED JOINT AND SEAM SEALANT, INDOOR OR OUTDOOR SERVICE, COMPATIBLE WITH GALVANIZED SHEET STEEL, MOLD AND MILDEW RESISTANT, 10–INCH WG, POSITIVE AND NEGATIVE MAXIMUM STATIC–PRESSURE CLASS. SURFACE–BURNING CHARACTERISTICS FOR SEALANTS AND GASKETS SHALL BE A MAXIMUM FLAME–SPREAD INDEX OF 25 AND A MAXIMUM SMOKE–DEVELOPED INDEX OF 50 WHEN TESTED ACCORDING TO UL 723; CERTIFIED BY AN NRTL.
   c. DUCT CONSTRUCTION AND SEALING:

SYSTEMS	PRESSURE CLASS INCH WG	SEAL CLASS
ALL DUCTWORK.	2	A

H. INSULATION:
1. GENERAL: INSULATE ALL DUCTWORK AS LISTED WITH MATERIAL AS INDICATED.
2. INSULATION SHALL BE APPLIED ONLY AFTER ALL TESTS HAVE BEEN COMPLETED.
3. DUCTWORK:
   a. MATERIALS:
      1) MINERAL–FIBER BLANKET: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTINGRESIN. COMPLY WITH ASTM C 1290, TYPE III WITH FACTORY–APPLIED FSK JACKET, 1–1/2 INCHES OR 2 INCHES THICK, 0.75–LB/CU.FT. NOMINAL DENSITY, MINIMUM INSTALLED R–VALUE = 4.2 (HR·FT²·F AT 75 F).
   b. APPLICATIONS:
      1) ALL SUPPLY AND RETURN AIR DUCTWORK, 1–1/2 INCHES THICK.
      2) ALL OUTDOOR AIR DUCTWORK, 2 INCHES THICK.

2.0 HVAC TESTING, ADJUSTING AND BALANCING:

A. TEST, ADJUST, AND BALANCE THE FOLLOWING MECHANICAL SYSTEMS:
1. SUPPLY, RETURN AND EXHAUST AIR SYSTEMS AS INDICATED ON THE DRAWINGS.
2. TEST AND ADJUST EXISTING EQUIPMENT AND SYSTEMS AS REQUIRED FOR THE WORK SHOWN ON THE DRAWINGS.

B. EACH INLET OR OUTLET SHALL BE ADJUSTED TO PROVIDE THE PROPER AIR DISTRIBUTION PATTERN AND AIR QUANTITY.

C. SET HVAC SYSTEM'S AIR FLOW RATES WITHIN THE FOLLOWING TOLERANCES:
1. SUPPLY, RETURN, AND EXHAUST FANS AND EQUIPMENT WITH FANS: PLUS 5 TO PLUS 10 PERCENT.
2. MAIN AIR DUCTS: PLUS OR MINUS 5 PERCENT.
3. AIR OUTLETS AND INLETS: PLUS OR MINUS 10 PERCENT.

D. ADJUST FAN SPEED AS REQUIRED AND THE STATIC PRESSURE, FAN SPEED, WATTMETER AND AMMETER READINGS ON THE FANS AND MOTORS SHALL BE RECORDED.

E. ALL INSTRUMENTS AND LABOR REQUIRED FOR THE TESTING AND BALANCING SHALL BE FURNISHED BY THIS CONTRACTOR, AND THE WORK SHALL BE REPEATED UNTIL ACCEPTED BY THE ARCHITECT.

F. BALANCE REPORTS SHALL BE ON SMACNA FORMS FOR REVIEW. THE TEST REPORTS SHALL CONTAIN THE FOLLOWING INFORMATION:
1. FAN DATA: MAKE AND MODEL NUMBER, DESIGN AND ACTUAL CFM, BHP, RPM, SUCTION AND DISCHARGE STATIC PRESSURES.
2. MOTOR DATA: MAKE AND MODEL NUMBER, HP, RPM, FULL LOAD AMPS, RATED AND ACTUAL VOLTS AND AMPERES.
3. AIR TEST DATA: AIR OUTLET MAKE AND MODEL NUMBER, SIZE, MANUFACTURER'S TEST FACTORACTUAL FREE AREA, DESIGN PRELIMINARY AND FINAL VELOCITIES AND CFM'S PERCENTAGE OF AIR EXCESSES OR SHORTAGES OBSERVED DURING FINAL READING IN RESPECT TO DESIGN CFM'S.

END OF HVAC SPECIFICATION

DIFFUSER, GRILLE & REGISTER SCHEDULE

TAG	DESCRIPTION	MFR & MODEL	REMARKS
A	RET/EXH GRILLE, LOUVERED, 3/4" SPACING, 35° DEFL., FLANGE FRAME	TI 350RL, PR 530L, OR MA H4002RS–40	1 2

1. MANUFACTURER AND MODEL AS INDICATED TI=TITUS, MA=METAILAIRE, PR=PRICE.
2. MANUFACTURERS STANDARD WHITE FINISH.

MECHANICAL EQUIPMENT LIST

SG–1 STEAM GENERATOR TO BE MR. STEAM MODEL CU–2500. UNIT TO BE 480 VOLT 3 PHASE. UNIT TO COME COMPLETE WITH DIGITAL CONTROL PACKAGE, AUTOMATIC BLOWDOWN SYSTEM, AUXILIARY MANUAL RESET LOW WATER CUTOFF. PROVIDE AND INSTALL NEW ROOM TIMERS AND DIGITAL T SENSORS (2) WIRED TO RESPECTIVE SOLENOID VALVE AND STEAM GENERATOR SO THAT UNIT GENERATES STEAM AND SUPPLIES IT TO ONLY THE ROOM REQUESTING THE STEAM. PROVIDE NEW STEAM HEADS (4) CONNECTED TO THE EXISTING STEAM PIPING. INSTALL EQUIPMENT ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS. PIPE BLOW DOWN PIPING TO THE EXISTING FLOOR DRAIN.

HVAC SYMBOL LIST

AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BOD	BOTTOM OF DUCT
CFM	CUBIC FEET PER MINUTE
SA	SUPPLY AIR
RA	RETURN AIR
EA	EXHAUST AIR
TOD	TOP OF DUCT
VD	VOLUME DAMPER
H	HUMIDISTAT OR HUMIDITY SENSOR
T	THERMOSTAT OR TEMPERATURE SENSOR
	TURNING VANES
A CFM 6x6	DIFFUSER & REGISTER TAG (W/AIR QUANTITY & SIZE INDICATED)

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BID SET	04.03.2017

PROJECT No: 2017.08
DATE: APRIL 3, 2017
SHEET TITLE:
HVAC SCHEDULES AND SPECIFICATIONS
SHEET:
M3.0

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ELECTRICAL SPECIFICATIONS

1. ALL WORK SHALL COMPLY WITH THE LOCAL CODES AND THEIR GOVERNING AUTHORITIES.
2. OBTAIN AND PAY FOR ALL PERMITS AND FEES RELATING TO ELECTRICAL SYSTEMS.
3. PROVIDE GROUNDING OF ELECTRICAL WORK IN STRICT ACCORDANCE WITH THE APPLICABLE CODES AND THEIR AUTHORITIES.
4. MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM TO THE N.E.M.A., NATIONAL ELECTRICAL CODE (NEC), AND UNDERWRITERS LABORATORIES (UL) STANDARDS IN EVERY CASE, WHERE SUCH STANDARD HAS BEEN ESTABLISHED.
5. FURNISH ALL LABOR, TOOLS, MATERIAL, EQUIPMENT, SERVICES AND RELATED ACCESSORIES NECESSARY FOR THE COMPLETE INSTALLATION OF ELECTRICAL WORK SHOWN ON THE DRAWINGS, SPECIFIED IN THE NOTES, AND REQUIRED BY LOCAL CODE AUTHORITIES.
6. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO ANY INSTALLATION.
7. COORDINATE STAGING OF MATERIAL WITH BUILDING MANAGEMENT REPRESENTATIVE AT TIME OF BIDDING.
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES AND CEILING MATERIAL. LIGHT FIXTURES SHALL BE COMPATIBLE WITH THE CEILING MATERIAL INDICATED ON THE ARCHITECTURAL DRAWINGS.
9. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION OF ALL MOTORS AND EQUIPMENT. PROVIDE ELECTRICAL SERVICE AS REQUIRED FOR EACH ITEM. VERIFY CONTROL REQUIREMENTS OF ALL MOTORS WITH MECHANICAL, PLUMBING AND TEMPERATURE CONTROL CONTRACTORS AND PROVIDE STARTER AND AUXILIARY CONTACTS AS REQUIRED.
10. ELECTRICAL METALLIC TUBING – UNLESS NOTED OTHERWISE, EMT "THINWALL" CONDUIT SHALL BE UTILIZED, IN GENERAL, WHERE PERMITTED BY CODE. MINIMUM SIZE CONDUIT SHALL BE 3/4", UNLESS SPECIFICALLY NOTED OTHERWISE.
11. CONDUIT SHALL BE AS MANUFACTURED BY ALLIED, TRIANGLE OR APPROVED EQUAL.
12. WIRES AND CABLES – ALL WIRE SHALL BE COPPER, 600 VOLT RATED INSULATION, TYPE THHN/THWN. WIRE SHALL BE SOLID FOR #10 AND SMALLER AND STRANDED FOR SIZE #8 AND LARGER.
13. OUTLET, PULL, AND JUNCTION BOXES SHALL BE 12 GAUGE, OR HEAVIER, STEEL, SHERARDIZED WITH REMOVABLE KNOCKOUTS. BOXES SHALL BE AS MANUFACTURED BY APPLETON, STEEL CITY, OR RAYCO.
14. CONNECTIONS – ALL MAIN FEEDER CONNECTIONS SHALL BE MADE WITH SOLDERLESS COPPRECTORS, BOLTED TYPE. SMALLER WIRE SPLICES SHALL BE MADE WITH PRESSURE TYPE CONNECTORS – MINNESOTA MINING "SKOTCHLOCKS" OR IDEAL "WINGNUTS".
15. FURNISH AND INSTALL LIGHTING FIXTURES COMPLETE WITH LAMPS, HANGERS, AND CONTROLS AS SHOWN ON THE DRAWINGS AND IN THE LIGHTING FIXTURE SCHEDULE.
16. ALL CONDUIT AND WIRING SHALL BE CONCEALED WHEREVER POSSIBLE. WHERE CONDUIT AND WIRE CANNOT BE CONCEALED, PROVIDE WIREMOLD OR SURFACE MOUNTED CONDUIT ROUTED AS DIRECTED BY THE ARCHITECT.
17. ALL EXPOSED CONDUITS SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO STRUCTURAL MEMBERS. CAREFULLY COORDINATE EXACT ROUTING WITH THE ARCHITECT'S REPRESENTATIVE, IN THE FIELD, PRIOR TO ANY INSTALLATION.
18. ALL CONDUITS SHALL BE INDEPENDENTLY SUPPORTED FROM THE BUILDING STRUCTURE. CONDUIT SHALL NOT BE SUPPORTED FROM VENTILATING DUCTS, MECHANICAL PIPING, SUSPENDED CEILING GRIDS, OR THEIR HANGERS.
19. EXPANSION FITTINGS – PROVIDE EXPANSION FITTINGS FOR CONDUITS CROSSING EXPANSION JOINTS.
20. PROVIDE SLEEVES IN WALLS AND FLOOR SLABS FOR THE PASSAGE OF ALL CONDUITS, PIPES AND DUCTS. PROVIDE FIRE STOPPING MATERIAL TO SEAL VOIDS AT CONDUIT PENETRATIONS.
21. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL WIRING SHALL BE INSTALLED IN CONDUIT.
22. PROPERLY LABEL ALL PANELBOARD DIRECTORIES FOR NEW WORK INVOLVED.
23. THIS CONTRACTOR SHALL PROVIDE CUTTING AND PATCHING OF EXISTING WALLS AFFECTED BY THE NEW WORK. PATCHING SHALL MATCH EXISTING, AND SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR.
24. IT IS INTENDED THAT ALL ITEMS OF WORK AND SYSTEMS BE FURNISHED AND INSTALLED COMPLETE IN ALL DETAILS, READY FOR SATISFACTORY OPERATION AND SERVICE. APPARATUS REQUIRED SHALL BE FURNISHED, EVEN THOUGH NOT SPECIFICALLY MENTIONED HEREIN, OR SHOWN ON THE DRAWINGS.
25. PROVIDE CODE APPROVED CLEARANCES AROUND ELECTRICAL EQUIPMENT.
26. TESTING – AFTER WIRES ARE IN PLACE AND CONNECTED TO DEVICES AND EQUIPMENT, THE SYSTEM SHALL BE TESTED FOR SHORTS AND GROUNDS. ALL HOT WIRES, IF SHORTED OR GROUNDED, SHALL BE REMOVED AND REPLACED.
27. ALL METERS, INSTRUMENTS, CABLE CONNECTION, EQUIPMENT, OR APPARATUS NECESSARY FOR MAKING ALL TESTS, SHALL BE FURNISHED BY THIS CONTRACTOR AT HIS OWN EXPENSE.
28. AFTER THE COMPLETION OF THE INSTALLATION, THE ENTIRE SYSTEM SHALL BE THOROUGHLY CLEANED. CLEAN ALL FOREIGN MATTER, PAINT, OIL, DIRT, UNREQUIRED LABELS, GREASE, AND STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE FROM THE PREMISES ALL RUBBISH, DEBRIS, ETC. ACCUMULATED BY THE ELECTRICAL INSTALLATION.
29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EQUIPMENT AND SYSTEMS AGAINST HARMFUL EXPOSURE, OR ACCUMULATION OF DUST/MOISTURE, FLOODING, CORROSION, OR OTHER FORMS OF DAMAGE. CLEAN AND RESTORE DAMAGED FINISHES AND EQUIPMENT TO PLACE INSTALLATION IN A LIKE–NEW CONDITION.
30. THE CONTRACTOR SHALL REMOVE EXISTING CEILING SYSTEMS, IF REQUIRED, TO INSTALL NEW CONDUIT AND WIRING. AT COMPLETION OF NEW WORK, THIS CONTRACTOR SHALL REPLACE AND MATCH FINISH OF THE EXISTING CEILING.
31. PERMANENT RECORDS – UPON COMPLETION OF INSTALLATION, FURNISH TO OWNER WIRING DIAGRAMS OF SPECIAL EQUIPMENT AND LOW VOLTAGE SYSTEMS AND CONTROLS. CATALOGS AND OPERATING INSTRUCTIONS FOR ALL EQUIPMENT AND CONTROLS SHALL BE ASSEMBLED, BOUND AND GIVEN TO OWNER AS A GUIDE FOR FUTURE OPERATION AND REPAIR.
32. GUARANTEE – ALL ITEMS, MATERIALS, AND WORKMANSHIP FURNISHED UNDER THIS SPECIFICATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR, AFTER ACCEPTANCE OF THE WORK AS EVIDENCED BY THE DATE OF FINAL CERTIFICATE. ANY DEFECTIVE MATERIAL OR FAULTY WORKMANSHIP SHALL BE REPLACED WITHOUT COST TO OWNER.
33. FIRE ALARM SYSTEM:
    - A. RENOVATION AND EXTENSION OF EXISTING CERBERUS PYROTRONICS MXL–IQ FIRE ALARM SYSTEM. WORK SHALL BE COMPLETED BY TOTAL FIRE AND SAFETY, INC. (630) 960–5060.
    - B. APPROVAL AND ACCEPTANCE: PROVIDE THE "RECORD OF COMPLETION" FORM ACCORDING TO NFPA 72 TO OWNER, ENGINEER, AND AUTHORITIES HAVING JURISDICTION.
    - C. INSTALLER QUALIFICATIONS: PERSONNEL SHALL BE TRAINED AND CERTIFIED BY MANUFACTURER FOR INSTALLATION OF UNITS REQUIRED FOR THIS PROJECT.
    - D. INTERRUPTION OF EXISTING FIRE–ALARM SERVICE: DO NOT INTERRUPT FIRE–ALARM SERVICE TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY GUARD SERVICE ACCORDING TO REQUIREMENTS INDICATED:
        - a. NOTIFY OWNER NO FEWER THAN TWO DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF FIRE–ALARM SERVICE.
    - E. FIRE ALARM SYSTEM AND COMPONENTS SHALL OPERATE AS AN EXTENSION OF AN EXISTING SYSTEM. COMPLY WITH NFPA 72 FOR INSTALLATION OF FIRE–ALARM EQUIPMENT. CONNECTING TO EXISTING EQUIPMENT: VERIFY THAT EXISTING FIRE–ALARM SYSTEM IS OPERATIONAL BEFORE MAKING CHANGES OR CONNECTIONS. CONNECT NEW EQUIPMENT TO EXISTING CONTROL PANEL IN EXISTING PART OF THE BUILDING.
    - F. EXPAND, MODIFY, AND SUPPLEMENT EXISTING CONTROL AND MONITORING EQUIPMENT AS NECESSARY TO EXTEND EXISTING CONTROL AND MONITORING FUNCTIONS TO THE NEW POINTS. NEW COMPONENTS SHALL BE CAPABLE OF MERGING WITH EXISTING CONFIGURATION WITHOUT DEGRADING THE PERFORMANCE OF EITHER SYSTEM.
    - G. MANUFACTURER'S FIELD SERVICE: ENGAGE A FACTORY–AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT, TEST, AND ADJUST FIELD–ASSEMBLED COMPONENTS AND EQUIPMENT INSTALLATION, INCLUDING CONNECTIONS, AND TO ASSIST IN FIELD TESTING. REPORT RESULTS IN WRITING. PERFORM EACH ELECTRICAL TEST AND VISUAL AND MECHANICAL INSPECTION LISTED IN NFPA 72. CERTIFY COMPLIANCE WITH TEST PARAMETERS.
    - H. NOTIFICATION DEVICES:
        - a. WALL MOUNT; RED FINISH; WEATHER–PROOF TYPE; FIELD SELECTABLE CANDELA SETTINGS.
34. WIRING DEVICES:
    - A. DUPLEX RECEPTACLE: HUBBELL # HBL5362IWR.
    - B. DUPLEX GFCI RECEPTACLE: HUBBELL # GFR5362SGI.
    - C. SINGLE POLE SWITCH: HUBBELL # HBL1221I.
    - D. THREE WAY SWITCH: HUBBELL # HBL1223I.
    - E. WALL PLATES: HIGH IMPACT THERMOPLASTIC, IVORY.
35. PROVIDE ELECTRONIC SUBMITTALS FOR THE FOLLOWING:
    - A. WIRING DEVICES.
    - B. FIRE ALARM.
    - C. LIGHT FIXTURES.

SYMBOL LIST

	DUPLEX CONVENIENCE RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
GFCI	GFCI RECEPTACLE
AC	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
EWC GFCI	POWER FOR ELECTRIC WATER COOLER (EWC). VERIFY WITH DIVISION 22 CONTRACTOR THE EXACT TYPE OF OUTLET REQUIRED AND PROVIDE A GFCI DUPLEX RECEPTACLE OR A DISCONNECT SWITCH WITH A HARD–WIRED CONNECTION AS REQUIRED BY THE EWC BEING INSTALLED AT EACH LOCATION. VERIFY EXACT MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS WITH DIVISION 22 CONTRACTOR AND EWC INSTALLATION DRAWINGS. ALL CIRCUIT BREAKERS SERVING EWC's WITH HARDWIRE CONNECTIONS SHALL BE GFCI TYPE.
TV	DUPLEX RECEPTACLE FOR TV MONITOR
	SPECIAL OUTLET
J	JUNCTION BOX
	EQUIPMENT CONNECTION
	MOTORIZED EQUIPMENT CONNECTION
	PANELBOARD
	X DENOTES GROUND WIRE
	DENOTES CAT5 CABLE
	CONDUIT STUB UP
	CONDUIT STUB DOWN
H	HAND DRYER, 120 VOLT, 1 PHASE, 2300 WATTS. MAKE FINAL CONNECTION TO HAND DRYER PER MANUFACTURERS INSTALLATION DOCUMENTATION. REFER TO ARCHITECTURAL DRAWINGS FOR VARIOUS MOUNTING ELEVATIONS OF HAND DRYERS AND COORDINATION JUNCTION BOX LOCATION WITH MANUFACTURERS INSTALLATION DOCUMENTATION.
H	HAIR DRYER, 120 VOLT, 1 PHASE, 2300 WATTS. MAKE FINAL CONNECTION TO HAIR DRYER PER MANUFACTURERS INSTALLATION DOCUMENTATION. REFER TO ARCHITECTURAL DRAWINGS FOR VARIOUS MOUNTING ELEVATIONS OF HAIR DRYERS AND COORDINATION JUNCTION BOX LOCATION WITH MANUFACTURERS INSTALLATION DOCUMENTATION.
E	SWIM SUIT WATER EXTRACTOR, 120 VOLT, 1 PHASE, 1/3 HP. MAKE FINAL CONNECTION TO WATER EXTRACTORS PER MANUFACTURERS INSTALLATION DOCUMENTATION. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING ELEVATIONS OF WATER EXTRACTORS AND COORDINATION JUNCTION BOX LOCATION WITH MANUFACTURERS INSTALLATION DOCUMENTATION.
LAV GFCI	GFCI DUPLEX RECEPTACLE FOR LAVATORY SENSOR CONTROLS. LOCATE RECEPTACLE PER ROUGH–IN DIAGRAMS BY LAVATORY MANUFACTURER, COORDINATE WITH PLUMBING CONTRACTOR AND GENERAL CONTRACTOR.
C	CLOCK – WALL MOUNTED
S	SPEAKER – CEILING MOUNTED
TV	CEILING MOUNT TV COAX CONNECTION.

SWITCHES AND SENSORS

$	SINGLE POLE SWITCH
$3W	THREE WAY SWITCH
$4W	FOUR WAY SWITCH
$a	SWITCH CONTROL (LOWER CASE LETTER)
$T	TIMER SWITCH

ENCLOSED SWITCHES & CONTROLS

	DISCONNECT SWITCH (SAFETY SWITCH / ENCLOSED SWITCH). THE SWITCH SIZE SHALL CORRESPOND TO THE OVER CURRENT DEVICE PROTECTING THE BRANCH CIRCUIT OR FEEDER, UNLESS A LARGER SIZE IS INDICATED. 0–30 AMP OCD = 30 AMP SWITCH 31–60 AMP OCD = 60 AMP SWITCH 61–100 AMP OCD = 100 AMP SWITCH 101–200 AMP OCD = 200 AMP SWITCH 201–400 AMP OCD = 400 AMP SWITCH 401–600 AMP OCD = 600 AMP SWITCH 601–800 AMP OCD = 800 AMP SWITCH 801–1200 AMP OCD = 1200 AMP SWITCH
	FUSED DISCONNECT SWITCH (SAFETY SWITCH / ENCLOSED SWITCH). THE SWITCH SIZE SHALL CORRESPOND TO THE OVER CURRENT DEVICE PROTECTING THE BRANCH CIRCUIT OR FEEDER, UNLESS A LARGER SIZE IS INDICATED ON THE DRAWINGS. 0–30 AMP OCD = 30 AMP SWITCH 31–60 AMP OCD = 60 AMP SWITCH 61–100 AMP OCD = 100 AMP SWITCH 101–200 AMP OCD = 200 AMP SWITCH 201–400 AMP OCD = 400 AMP SWITCH 401–600 AMP OCD = 600 AMP SWITCH 601–800 AMP OCD = 800 AMP SWITCH 801–1200 AMP OCD = 1200 AMP SWITCH
	MOTOR STARTER (ENCLOSED CONTROLLER) WITH HAND–OFF–AUTO SELECTOR SWITCH IN COVER. ALL MOTOR STARTERS ARE BY THE ELECTRICAL CONTRACTOR.
	COMBINATION MOTOR STARTER (ENCLOSED CONTROLLER) AND FUSIBLE SWITCH WITH HAND–OFF–AUTO SELECTOR SWITCH IN COVER. ALL MOTOR STARTERS ARE BY THE ELECTRICAL CONTRACTOR.
	CONTROL PACKAGE – ALL CONTROLLING DEVICES, STARTERS, ASSOCIATED CONTROL STATIONS AND ASSOCIATED CONTROL WIRING SHALL BE FURNISHED, INSTALLED AND WIRED BY EQUIPMENT SUPPLIER. POWER WIRING AND NON–FUSED DISCONNECTING DEVICES ONLY SHALL BE UNDER THIS DIVISION OF THE WORK.
	CONTROL PACKAGE – ALL CONTROLLING DEVICES, STARTERS, ASSOCIATED CONTROL STATIONS AND ASSOCIATED CONTROL WIRING SHALL BE FURNISHED, INSTALLED AND WIRED BY EQUIPMENT SUPPLIER. POWER WIRING AND FUSED DISCONNECTING DEVICES ONLY SHALL BE UNDER THIS DIVISION OF THE WORK.
$F	LOW VOLTAGE TRANSFORMER, JUNCTION BOX, AND FUSED SWITCH.
$	LOW VOLTAGE TRANSFORMER, JUNCTION BOX, AND SWITCH. TRANSFORMER HAS BUILT IN PROTECTION
	HARD WIRED FINAL EQUIPMENT CONNECTION
$	HARD WIRED FINAL EQUIPMENT CONNECTION WITH DISCONNECT SWITCH.

FIRE ALARM SYSTEM – NFPA

	SMOKE DETECTOR
	HEAT DETECTOR (THERMAL DETECTOR)
P	MANUAL STATION – PULL STATION
	NOTIFICATION APPLIANCE – VISUAL AND AUDIBLE DEVICE AS ONE ASSEMBLY
	NOTIFICATION APPLIANCE – VISUAL DEVICE
FACP	FIRE ALARM CONTROL PANEL
NAC	NOTIFICATION APPLIANCE CIRCUIT PANEL

GENERAL WIRING NOTES:

12 AWG WIRE SHALL BE THE MINIMUM SIZE WIRE.

20 AMP, 120 VOLT, SINGLE PHASE CIRCUITS SHALL BE SIZED AS FOLLOWS:

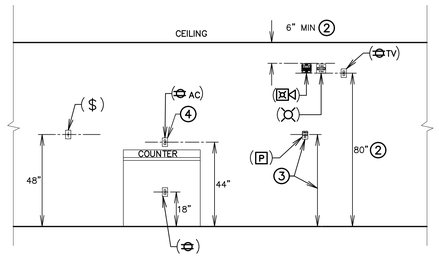
BRANCH CIRCUITS LESS THAN 75 FEET SHALL BE A MINIMUM OF 12 AWG WIRE.
BRANCH CIRCUITS GREATER THAN 75 FEET SHALL BE A MINIMUM OF 10 AWG WIRE.
BRANCH CIRCUITS GREATER THAN 125 FEET SHALL BE A MINIMUM OF 8 AWG WIRE.
BRANCH CIRCUITS GREATER THAN 175 FEET SHALL BE A MINIMUM OF 6 AWG WIRE.

OTHER BRANCH CIRCUITS AND FEEDERS:

OTHER BRANCH CIRCUITS, FEEDERS AND VOLTAGE COMBINATIONS, SHALL BE SIZED TO COMPLY WITH THE NATIONAL ELECTRICAL CODE AND AS INDICATED ON THE DRAWINGS.

ABBREVIATIONS

1P	ONE POLE
2P	TWO POLE
3P	THREE POLE
4P	FOUR POLE
1P1W	ONE POLE ONE WIRE
1P2W	ONE POLE TWO WIRE
2P2W	TWO POLE TWO WIRE
2P3W	TWO POLE THREE WIRE
3P3W	THREE POLE THREE WIRE
3P4W	THREE POLE FOUR WIRE
A	AMPERE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
A/V	AUDIO VISUAL
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT (GENERIC FOR RACEWAY)
CATV	CABLE TELEVISION
CKT	CIRCUIT
CU	COPPER
DISC	DISCONNECT
E	EXISTING TO REMAIN
EMT	ELECTRIC METALLIC TUBING
EWC	ELECTRIC WATER COOLER
F	FAHRENHEIT
FBO	FURNISHED BY OTHERS
FECA	FUSE ENCLOSED CONTROLLER AT
FLA	FULL LOAD AMPS
FMC	FLEXIBLE METALLIC CONDUIT
FT	FEET
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRC	GALVANIZED RIGID CONDUIT
HP	HORSEPOWER
HZ	HERTZ (CYCLE PER SEC)
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
LBS	POUNDS
LFMC	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT
LTG	LIGHTING
LPF	LUMENS PER FOOT
MA	MILLIAMP
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
N	NEUTRAL
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
#	NUMBER
P	POLE
PIR	PASSIVE INFRARED
PH	PHASE
PS	PROTECTIVE SHIELD
PT	POTENTIAL TRANSFORMER
RL	RELOCATED EQUIPMENT
R	REMOVE
RN	REMOVE AND REPLACE WITH NEW
RR	REMOVE AND RELOCATE
RSC	RIGID STEEL CONDUIT
SQFT	SQUARE FEET
SWBD	SWITCHBOARD
THD	TOTAL HARMONIC DISTORTION
UG	UNDERGROUND
V	VOLT
VAC	VOLTAGE ALTERNATING CURRENT
VDC	VOLTAGE DIRECT CURRENT
W	WIRE
W/	WITH
WP	WEATHERPROOF



1 TYPICAL OUTLET MOUNTING HEIGHTS
SCALE: NONE

TYPICAL OUTLET MOUNTING HEIGHT NOTES

1. TYPICAL MOUNTING HEIGHTS ARE INDICATED. REFER TO ELECTRICAL PLAN DRAWINGS AND ARCHITECTURAL ELEVATIONS FOR NON–TYPICAL HEIGHTS FOR SPECIFIC OUTLETS.
2. FIRE ALARM VISUAL DEVICES SHALL BE 80" ABOVE THE FLOOR OR 6" BELOW THE CEILING, WHICH EVER IS LOWER.
3. FIRE ALARM MANUAL PULL STATIONS SHALL BE MOUNTED SO THE TOP OF THE PULL LEVER / HANDLE IS NO MORE THAN 48" ABOVE THE FINISHED FLOOR. COORDINATE THE EXACT MOUNTING HEIGHT WITH THE PULL STATIONS THAT ARE BEING INSTALLED.
4. ABOVE COUNTER OUTLETS SHALL BE 44" FROM THE CENTER OF THE OUTLET TO THE FINISHED FLOOR, OR ADJUSTED TO ACCOMMODATE COUNTER TOP AND BACK SPLASH HEIGHT. OUTLETS SHALL BE MOUNTED ABOVE BACK SPLASH SO THEY DO NOT INTERFERE WITH BACK SPLASH. REFER TO ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLING BACK BOXES / JUNCTION BOXES TO VERIFY EXACT HEIGHT OF COUNTER TOP AND BACK SPLASH. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR.

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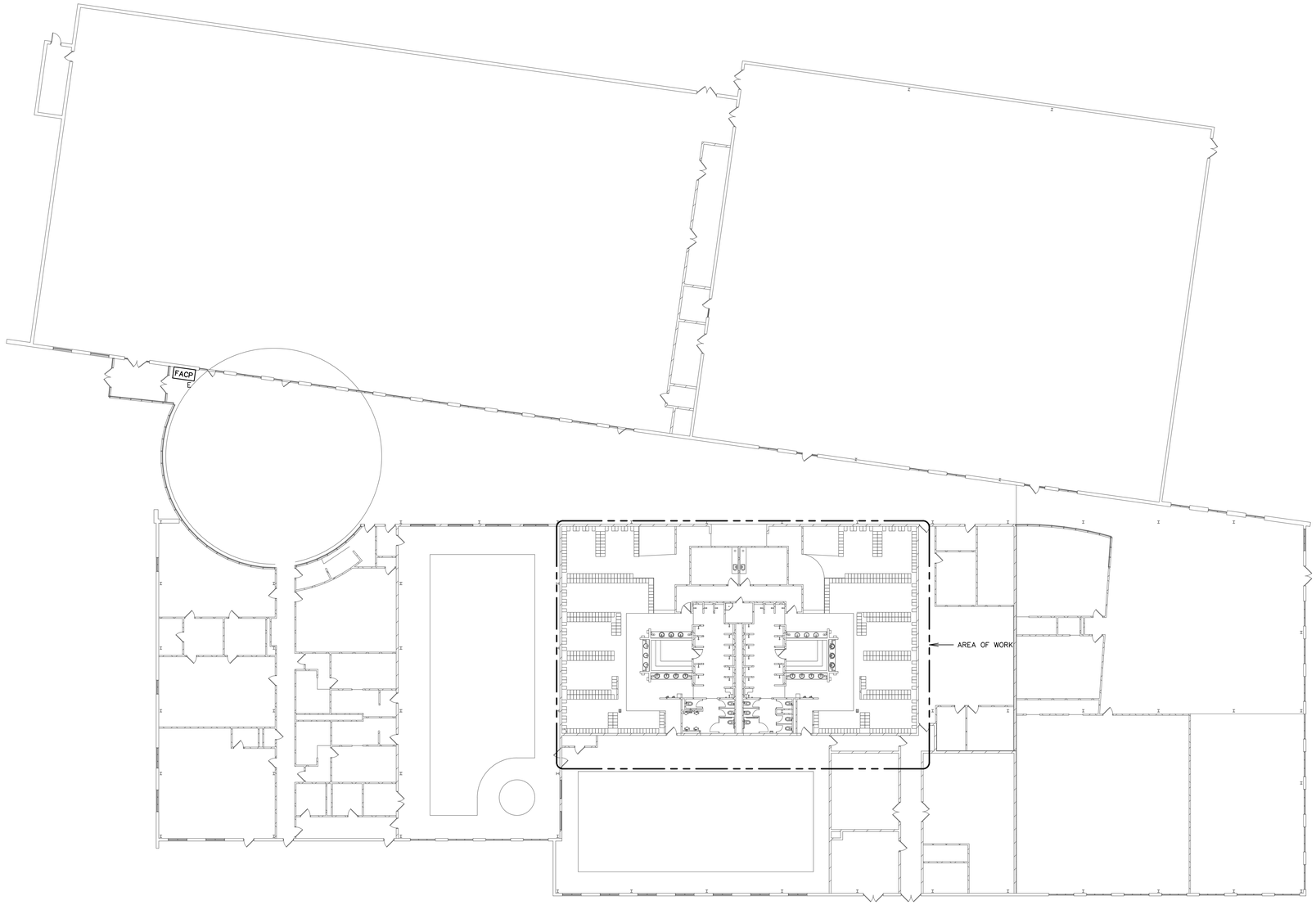
SHEET:	E0.0



1 FIRST FLOOR MASTER PLAN - ELECTRICAL
1/16" = 1'-0"

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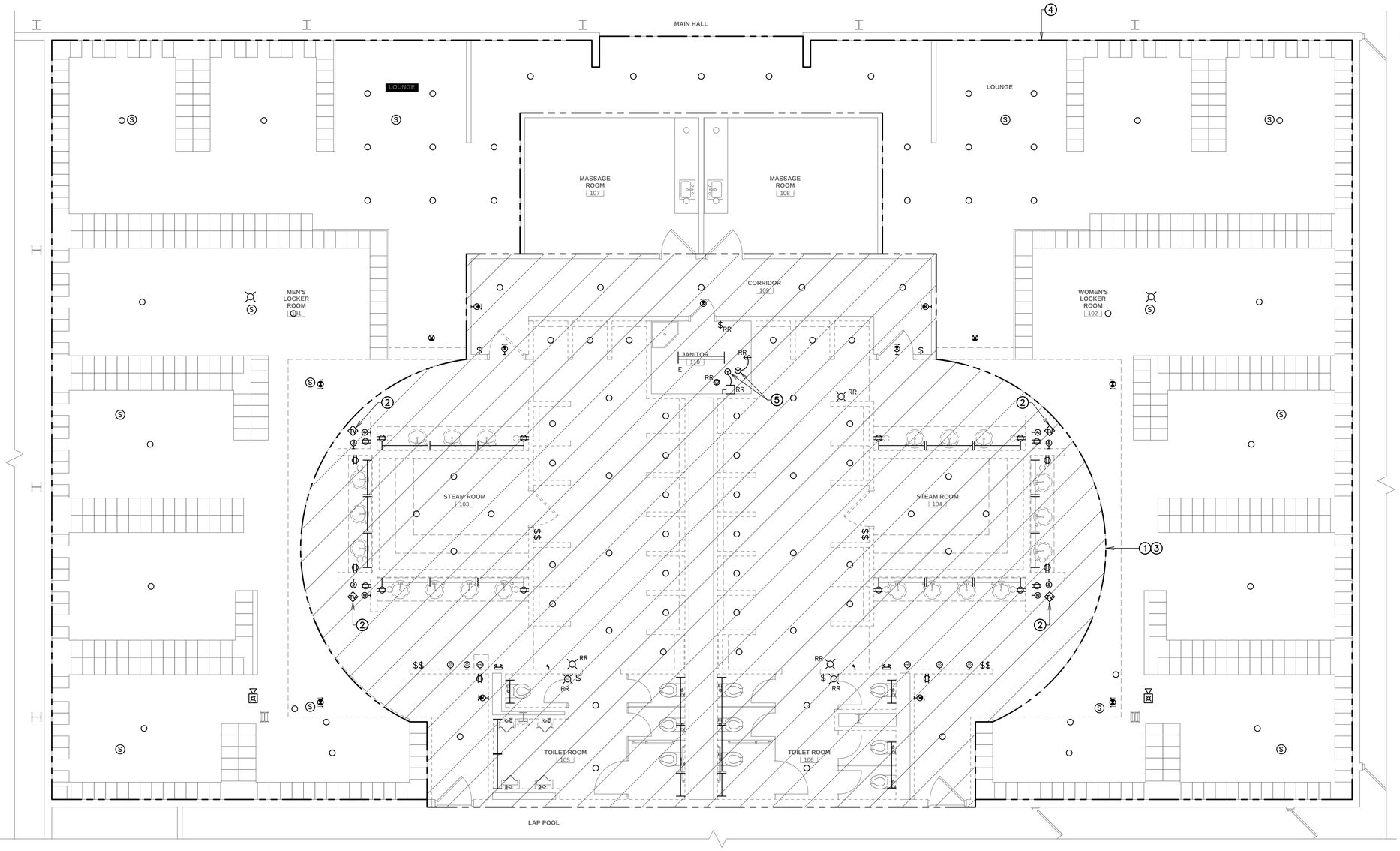
FIRST FLOOR MASTER PLAN - ELECTRICAL
SHEET:
EM.1



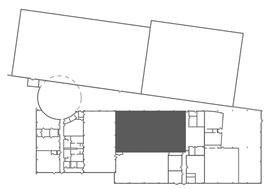
1 FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
1/4" = 1'-0"

GENERAL DEMOLITION NOTES

1. FOR THE PURPOSE OF CLARIFICATION SOME OF THE REQUIRED DEMOLITION WORK HAS BEEN SHOWN ON THIS SHEET. THE WORK SHOWN ON THIS SHEET IS NOT THE ENTIRE EXTENT OF DEMOLITION AND SHOULD BE USED IN CONJUNCTION WITH THE OTHER DRAWINGS INCLUDING OTHER TRADES AND FIELD VERIFICATION TO DETERMINE THE ACTUAL SCOPE OF DEMOLITION.
2. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND FEEDERS PASSING THRU RENOVATED AREAS AND SERVICING UNDISTURBED AREAS. THE EXACT METHOD OF RE-ROUTING NEW CONDUIT AND WIRE TO EQUIPMENT REMAINING SHALL BE COORDINATED WITH WORK OF OTHER TRADES PRIOR TO ANY INSTALLATION.
3. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL LOW VOLTAGE CABLING, FIRE ALARM CABLING, BRANCH CIRCUITS AND ASSOCIATED RACEWAY SYSTEMS PASSING THRU RENOVATED AREAS AND SERVICING UNDISTURBED AREAS. THE EXACT METHOD OF RE-ROUTING NEW RACEWAYS AND CABLE TO EQUIPMENT REMAINING SHALL BE COORDINATED WITH WORK OF OTHER TRADES PRIOR TO ANY INSTALLATION.
4. ALL ELECTRICAL EQUIPMENT BEING REMOVED OR RELOCATED BY DEMOLITION SHALL BE ELECTRICALLY DISCONNECTED BACK AT PANELBOARD WHICH SERVICES THE EQUIPMENT. REMOVE AND DISPOSE OF EQUIPMENT (OR RELOCATE IF NOTED) UNLESS NOTED OTHERWISE, AFTER TESTING TO DETERMINE THAT ELECTRICITY HAS BEEN TURNED OFF.
5. LEGALLY DISPOSE OF ALL LIGHT FIXTURES, LAMPS AND BALLASTS BEING REMOVED. THIS CONTRACTOR SHALL VERIFY THE EXISTENCE OF PCB'S, DEHP'S, MERCURY AND OTHER HAZARDOUS MATERIALS AND DISPOSE OR RECYCLE OF THEM PER THE ILLINOIS EPA AND THE FEDERAL GOVERNMENT.
6. THIS CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND POWER DURING AND AFTER DEMOLITION AND DURING CONSTRUCTION. TEMPORARY SERVICES SHALL BE TAKEN FROM EXISTING PANELBOARDS AND EXISTING EQUIPMENT MAY BE UTILIZED WHERE FEASIBLE. COORDINATE TEMPORARY SERVICES WITH OWNER TO VERIFY THAT SERVICES WILL NOT ADVERSELY AFFECT EMERGENCY OR STANDBY POWER SYSTEMS.
7. RE-ROUTE EXISTING CONDUIT AND WIRE INTERFERING WITH THE NEW WORK. RE-ROUTED CONDUIT AND WIRE SHALL BE CONCEALED IN THE NEW CONSTRUCTION, UNLESS NOTED OTHERWISE.
8. EXISTING ELECTRICAL EQUIPMENT REQUIRED TO BE REMOVED AND/OR RELOCATED, BUT NOT SHOWN ON THE DRAWINGS, SHALL BE INCLUDED IN THE SCOPE OF WORK.
9. VISIT AND EXAMINE THE BUILDING ELECTRICAL SYSTEMS AND EXISTING CONSTRUCTION SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL BE ENCOUNTERED AS PART OF THE PROJECT, BEFORE SUBMITTING PROPOSALS. SUBMISSIONS OF PROPOSAL WILL BE EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS WILL NOT BE RECOGNIZED.
10. ALL CONDUIT AND WIRE REMOVED, SHALL BE REMOVED COMPLETELY BACK TO THE SOURCE, AND THE BRANCH OVER CURRENT DEVICE PROPERLY LABELED SPARE.
11. SHUTDOWN OF ANY SERVICE TO EQUIPMENT REMAINING SHALL ONLY BE FOR THE TIME AGREED UPON BY THE OWNER'S REPRESENTATIVE. ALL SHUTDOWNS AGREEMENTS SHALL BE IN WRITING WITH COPIES TO THE OWNER, GENERAL CONTRACTOR AND CONSULTANTS.

DEMOLITION NOTES

1. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN THIS AREA, UNLESS OTHERWISE NOTED TO REMAIN. INCLUDING LIGHTING FIXTURES, SWITCHES, RECEPTACLES, EXPOSED CONDUIT, SURFACE AND FLUSH DEVICES BOXES, DEVICE PLATES, ETC. REMOVE ALL WIRING FROM EXISTING CONDUITS.
2. COIL COAX CABLE ABOVE CEILING DURING CONSTRUCTION.
3. REMOVE BRANCH CIRCUIT CONDUIT AND WIRING BACK TO THE INDICATED BOUNDARY AREA. BRANCH CIRCUITS TO BE RE-USED, SEE PLANS FOR FURTHER INFORMATION.
4. CEILING TILES IN THIS AREA TO BE REPLACED. DISCONNECT AND REINSTALL DEVICES THAT DO NOT TAKE UP A FULL TILE FOR TILE REPLACEMENT. INCLUDE ALL LIGHT FIXTURES, EXIT SIGNS, CEILING MOUNT FIRE ALARM DEVICES, SPEAKERS AND TV COAX DROPS. FIELD VERIFY ALL DEVICES PRIOR TO SUBMITTING BID.
5. ELECTRICALLY DISCONNECT STEAM GENERATOR AND CONTROL POWER.



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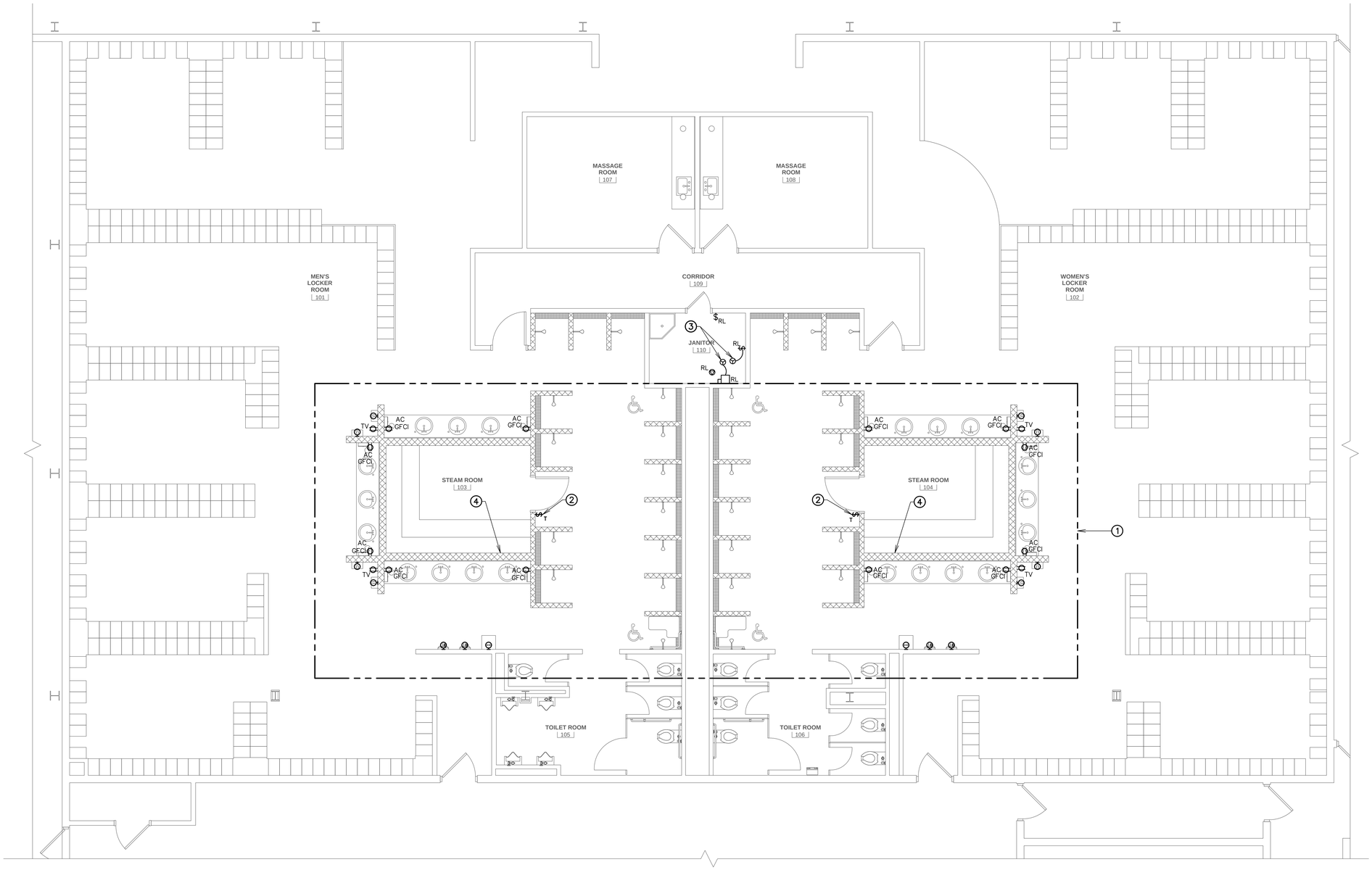
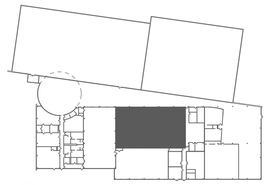
SHEET TITLE: FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
SHEET: ED.1

PLAN NOTES

1. CONNECT EACH DEVICE TO THE CIRCUIT THAT FED DEMOLISHED DEVICE IN THE SAME LOCATION. EXTEND CONDUIT AND WIRING AS REQUIRED. MATCH EXISTING BRANCH CIRCUIT SIZING.
2. TIMER SWITCH BY OTHERS. CONNECT TO STEAM GENERATOR CONTROLS IN JANITOR 110. USE CONDUIT AND WIRING AS RECOMMENDED BY MR. STEAM.
3. MAKE FINAL ELECTRICAL CONNECTIONS TO THE STEAM GENERATOR AND THE CONTROL POWER. MATCH EXISTING CONDUIT AND WIRE SIZING.
4. WIRE STEAM ROOM THERMOSTAT TO STEAM GENERATOR CONTROLS IN JANITOR 110. USE CABLING AND CONDUIT AS RECOMMENDED BY MR. STEAM.



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



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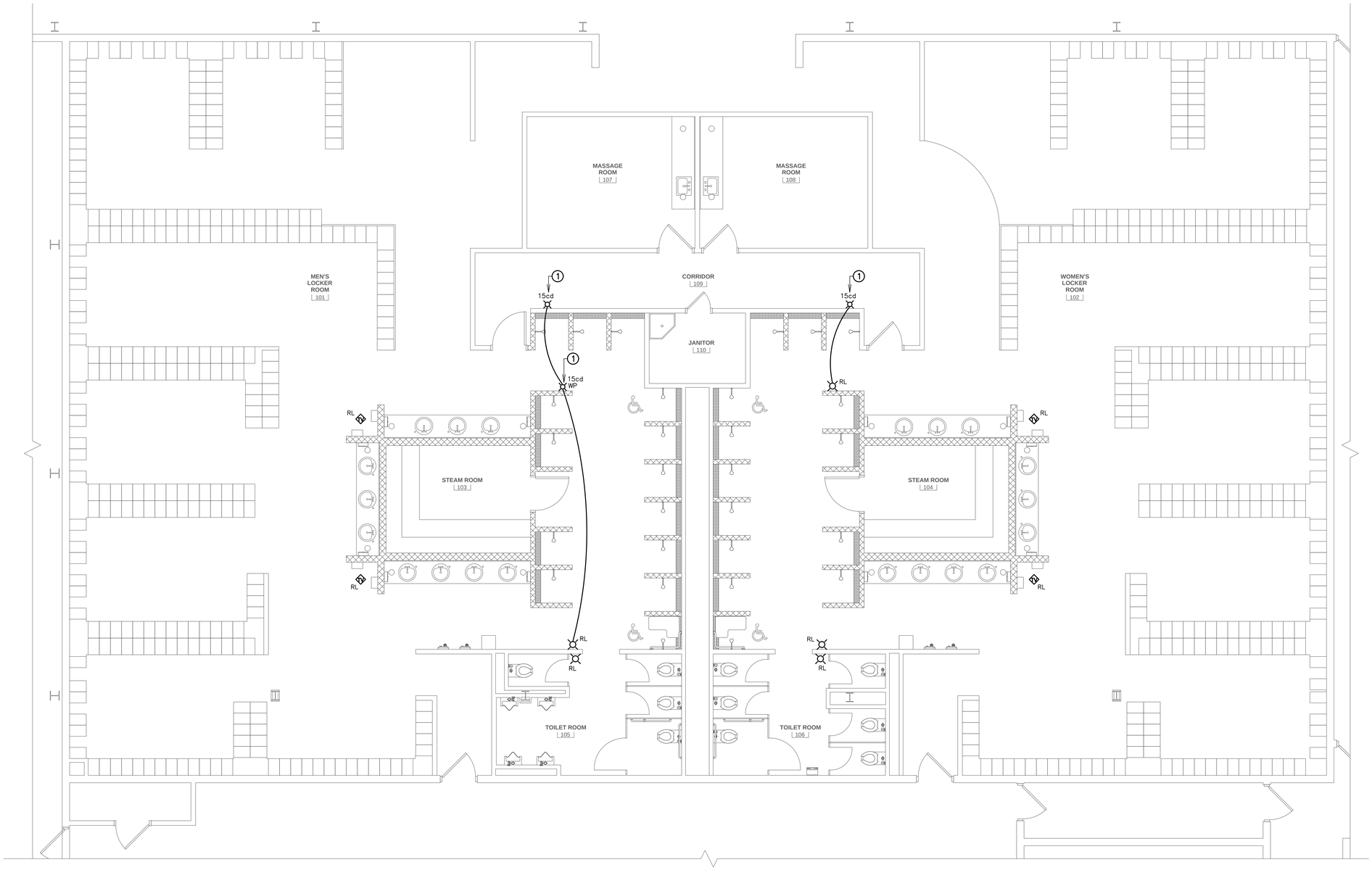
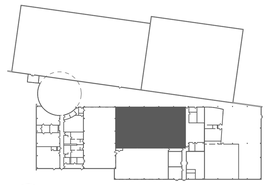
SHEET:	E1.1

PLAN NOTES

1. CONNECT TO FIRE ALARM NOTIFICATION CIRCUIT WITH ADEQUATE CAPACITY THAT SERVES THIS AREA.



1 FIRST FLOOR PLAN - SPECIAL SYSTEMS
1/4" = 1'-0"



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SHEET:	E2.1

LIGHT FIXTURE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	VOLTS	NOTE 1
D1	○	(1) LED, 1500 LUMENS, 3500K	LED SHOWER / STEAM ROOM DOWNLIGHT	LED DRIVER	RECESSED	GOTHAM # EVO 35/15 6 DFR MVOLT EZ10	277V 1P 2W	
D2	○	(1) LED, 1500 LUMENS, 3500K	LED DOWNLIGHT	LED DRIVER	RECESSED	GOTHAM # EVO 35/15 6WR MVOLT EZ10 PRESCOLITE # LF6LEDG4 6LFLED6G4 35K WH WT	277V 1P 2W	
D3	○	(1) LED, 2500 LUMENS, 3500K	LED DOWNLIGHT	LED DRIVER	RECESSED	GOTHAM # EVO 35/25 6WR MVOLT EZ10 PRESCOLITE # LF6LEDBG4 6LFLED8G4 35K WH WT	277V 1P 2W	
E1	⊗	(1) LED	POLYCARBONATE LED EXIT SIGN, SELF-POWERED, SELF-DIAGNOSTIC CIRCUIT	BATTERY	WALL/CEILING	DUAL-LITE #LX U R W E I LITHONIA # LQM S W 3 R 120/277 ELN SD	277V 1P 2W	SEE NOTE #1.
E2	⊗	(1) LED	WET-LOCATION LED EXIT SIGN, SELF-POWERED, SELF-DIAGNOSTIC CIRCUIT	BATTERY	WALL/CEILING	DUAL LITE # SEWL D R W E LITHONIA # WLTE W 2 R EL SD	277V 1P 2W	SEE NOTE #1.
E3		(1) XENON	DAMP-LOCATION EMERGENCY BATTERY LIGHT, SELF-DIAGNOSTIC CIRCUIT	BATTERY	WALL, 8'-6"AFF	LITHONIA # AFN W PREM DUAL LITE # PGN W	277V 1P 2W	SEE NOTE #3.
E4		(1) 6W XENON	WET-LOCATION EMERGENCY BATTERY LIGHT, SELF-DIAGNOSTIC CIRCUIT	BATTERY	WALL, 8'-0"AFF	LITHONIA # AFN W PREM WL DUAL LITE # PGN W	277V 1P 2W	SEE NOTE #3.
E5		(2) LED	POLYCARBONATE LED COMBO EXIT SIGN, SELF-POWERED, SELF-DIAGNOSTIC CIRCUIT	BATTERY	WALL/CEILING	DUAL-LITE # HCX U R W 03L LITHONIA # LHQM LED R SD	277V 1P 2W	SEE NOTE #1.
F1		(1) LED, 450 LPF, 3500K	13'-0" LED PERMITER SLOT	LED DRIVER	PERMITER SLOT / GRID	FOCAL POINT # FWSL FL 650LF 35K 1C UNV LD1 U WH 13'-0" W/ SLIDING SLEEVES PRUDENTIAL # P59 A6 LED35 PROG 450 LPF R 13'-0" SC UNV X1 ND W/ FILLER KITS	277V 1P 2W	SEE NOTES #2 & #3.
F2		(1) LED, 450 LPF, 3500K	10'-0" LED PERMITER SLOT	LED DRIVER	PERMITER SLOT / GRID	FOCAL POINT # FWSL FL 650LF 35K 1C UNV LD1 U WH 10'-0" W/ SLIDING SLEEVES PRUDENTIAL # P59 A6 LED35 PROG 450 LPF R 10'-0" SC UNV X1 ND W/ FILLER KITS	277V 1P 2W	SEE NOTES #2 & #3.
F3		(1) LED, 450 LPF, 3500K	2'-9" LED PERMITER SLOT	LED DRIVER	PERMITER SLOT / GRID	FOCAL POINT # FWSL FL 650LF 35K 1C UNV LD1 U WH 2'-9" W/ SLIDING SLEEVES PRUDENTIAL # P59 A6 LED35 PROG 450 LPF R 2'-9" SC UNV X1 ND W/ FILLER KITS	277V 1P 2W	SEE NOTES #2 & #3.
F4		(1) LED, 450 LPF, 3500K	5'-10" LED PERMITER SLOT	LED DRIVER	PERMITER SLOT / GRID	FOCAL POINT # FWSL FL 650LF 35K 1C UNV LD1 U WH 5'-10" W/ SLIDING SLEEVES PRUDENTIAL # P59 A6 LED35 PROG 450 LPF R 5'-10" SC UNV X1 ND W/ FILLER KITS	277V 1P 2W	SEE NOTES #2 & #3.
F5		(1) LED, 450 LPF, 3500K	10'-9" LED PERMITER SLOT	LED DRIVER	PERMITER SLOT / GRID	FOCAL POINT # FWSL FL 650LF 35K 1C UNV LD1 U WH 10'-9" W/ SLIDING SLEEVES PRUDENTIAL # P59 A6 LED35 PROG 450 LPF R 10'-9" SC UNV X1 ND W/ FILLER KITS	277V 1P 2W	SEE NOTES #2 & #3.

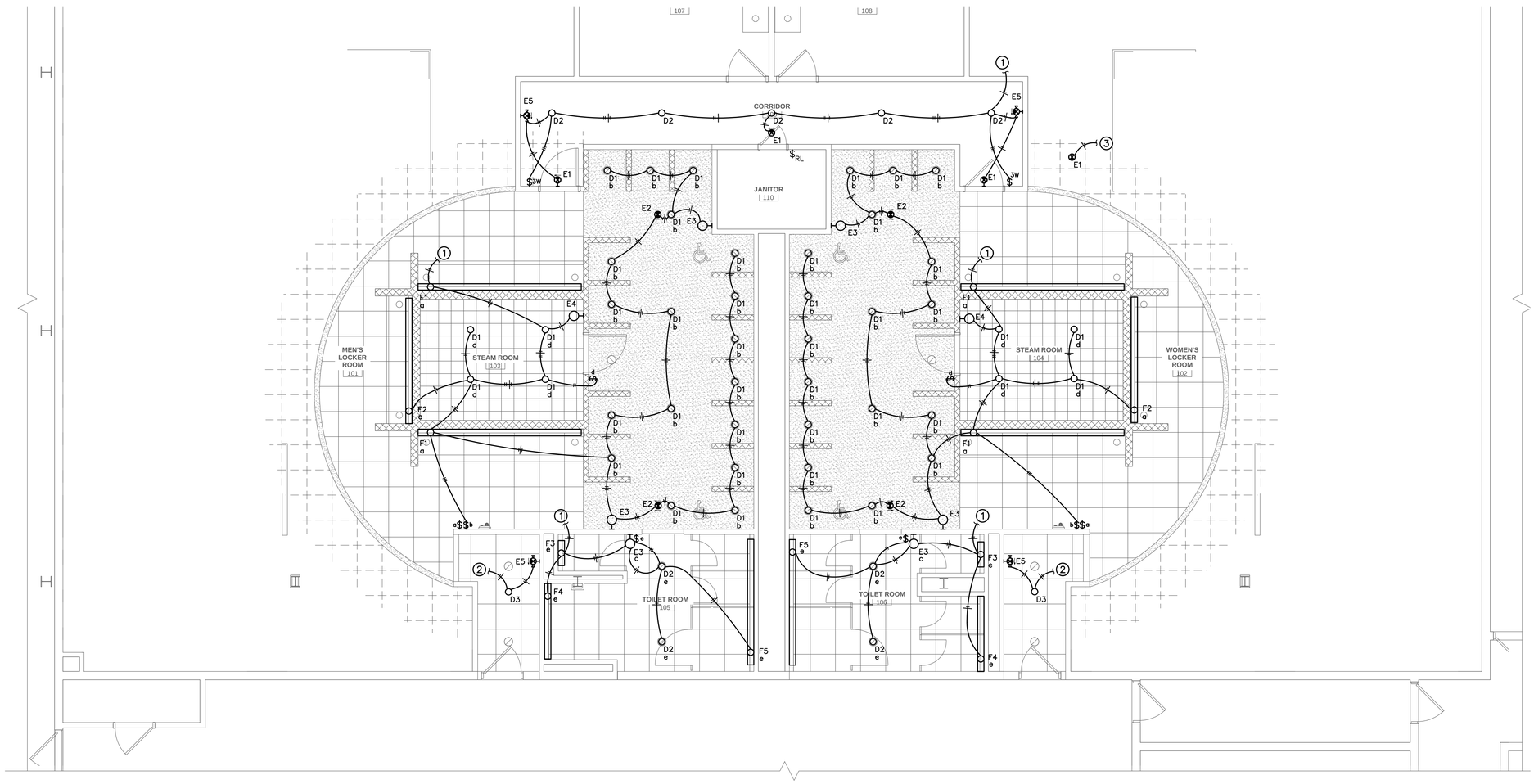
LIGHT FIXTURE SCHEDULE NOTES:
1. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON PLAN DRAWINGS AND AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. PROVIDE LETTER SIZE, COLOR AND TYPE AS REQUIRED BY LOCAL CODE AUTHORITIES.
2. COORDINATE THE INSTALLATION OF WALL SLOT LIGHTS WITH GENERAL CONTRACTOR AND ARCHITECTURAL DRAWINGS. WALL SLOTS LIGHT FIXTURES SHALL BE CONTINUOUS FOR THE ENTIRE LENGTH OF SLOT. USE EXTENSION KITS TO FIT LENGTH OF SLOT. CONTRACTOR MEASURE DISTANCE FROM WALL TO WALL PRIOR TO PLACING FINAL ORDER FOR FIXTURES.
3. ALL LIGHT FIXTURES OF SAME STYLE INSTALLED IN ADJACENT SPACES, SHALL BE OF THE SAME MANUFACTURER AND HAVE THE SAME FINISH.

GENERAL LIGHTING NOTES

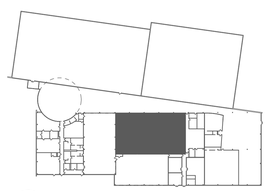
1. CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES AHEAD OF LOCAL SWITCHING, CONTACTORS AND RELAYS. UNITS SHALL OPERATE WHEN NORMAL LIGHTING FAILS.

PLAN NOTES

1. CONNECT TO THE 277V CIRCUIT THAT FED THE DEMOLISHED LIGHTS.
2. CONNECT TO THE 277V CIRCUIT AND LIGHTING CONTROLS THAT SERVED THE DEMOLISHED FIXTURE(S) IN THIS AREA.
3. CONNECT TO THE 277V CIRCUIT THAT FEEDS LIGHTS IN THIS AREA. CONNECT AHEAD OF LOCAL SWITCHES, RELAYS AND CONTACTORS.
4. CONNECT TO EXISTING LIGHT FIXTURES IN THIS AREA.



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



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