GENERAL PROJECT NOTES

DETAIL# SHEET DETAIL# INTERIOR ELEVATION

—CEILING TYPE

1. UNLESS OTHERWISE NOTED, DIMENSIONS ARE TO COLUMN CENTERLINE, FACE OF STUD AND FACE OF MASONRY AND CONCRETE WALLS. <u>DIMENSIONS IN TOILET ROOMS AND ADA EQUIPMENT AND APPLIANCES ARE CLEAR FINISHED DIMENSIONS AND SHALL BE COORDINATED WITH ANSI 117.1 AND THE ARCHITECT.</u> REFER TO FRONT END FOR ALL FINAL SPECIFICATIONS, PROCEDURAL DETAILS, AND PROJECT PARAMETERS

2. ALL CMU WALLS, SOUND RATED PARTITIONS, FIRE RATED AND/OR SMOKE PARTITIONS SHALL EXTEND FROM FINISHED FLOOR TO WHERE IT MAY BE SEALED, SUCH AS THE UNDERSIDE OF THE STRUCTURE OR DECK, AND BE ENTIRELY SEALED OFF UNLESS NOTED OTHERWISE. ALL PENETRATIONS, SUCH AS PIPING, CONDUITS, DUCTS, IN SUCH SEALED OFF WALLS OR PARTITIONS, SHALL IN THEMSELVES BE PACKED AND SEALED OFF ALONG THE PERIMETER OF PENETRATION. IN FIRE & SMOKE WALLS & PARTITIONS - APPROVED FIRE SEALANT SHALL BE INSTALLED. PRIOR TO FRAMING, GENERAL CONTRACTOR TO FIELD VERIFY SIZES OF MECHANICAL ROOMS AND SPECIFIED EQUIPMENT TO ENSURE ADEQUATE MAINTENANCE SPACE AFTER INSTALLATION.

3. 20 GA. METAL STUDS SHALL BE USED FOR ALL PARTITIONS - TYPICAL FOR PROJECT. STRUCTURAL STUDS SHALL BE USED WHERE ANY NON-SELF SUPPORTING WALL-HUNG FIXTURES, EQUIPMENT, OR CABINETRY OCCUR. DOUBLE STUDS AS NECESSARY TO PROVIDE PROPER SUPPORT. INSTALL METAL STUD BAR CROSS BRACING AT MIDSPAN FOR ALL PARTITIONS WHICH SUPPORT FIXTURES, EQUIPMENT, CABINETRY AND STRUCTURE. ALL GWB SHALL RUN FROM FLOOR TO UNDERSIDE OF STRUCTURAL DECK ABOVE, TYPICAL UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING BEHIND ALL WALL MOUNTED FIXTURES, ACCESSORIES & CABINETRY.

4. NOTIFY ARCHITECT OF ANY QUESTIONS OR DISCREPANCIES IN THE DOCUMENTS WITH RESPECT TO INTENT OR SCOPE OF THE WORK IMMEDIATELY, DURING BID, PRIOR TO ORDERING MATERIAL, INITIATING SHOP DRAWINGS OR COMMENCING ANY CONSTRUCTION. THE ARCHITECT WILL PROVIDE CLARIFICATIONS AND INTERPRETATIONS AS NECESSARY TO DEFINE THE SCOPE AND INTENT OF THE DOCUMENTS IN A TIMELY MANNER. DOCUMENTS INCLUDE DRAWINGS, SPECIFICATIONS AND ADDENDA. ALL INDIVIDUAL DRAWINGS AND SHEETS ARE TO BE CONSIDERED PART OF THE ENTIRE SET OF DOCUMENTS AND ARE COMPLIMENTARY. LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS. CONTRACTOR IS RESPONSIBLE TO COORDINATE WORK WITH ALL DRAWINGS.

5. ADA COMPLIANT SINKS WITH TRAP PROTECTION SKIRT PANELS SHALL MEET ANSI 117.1KNEE AND TOE CLEARANCES. IF NO SKIRT PANEL IS PROVIDED, ALL EXPOSED SINK TRAPS SHALL BE PROTECTED WITH LAVGUARDS BY TRUBRO, INC. EVEN IF NOT SHOWN ON THE DRAWINGS.

6. BIDDERS ARE REQUIRED TO VISIT THE BUILDING AND REVIEW THE SPECIFIC AREAS OF WORK. BIDS SHALL INCLUDE COMPLETE COSTS FOR WORK SCOPE DESCRIBED HEREIN TAKING INTO ACCOUNT CONDITIONS WHICH ARE VISIBLY EVIDENT AND CONDITIONS WHICH CAN BE ANTICIPATED FOR A NEW BUILDING OF THIS SIZE AND CONFIGURATION GIVEN INDUSTRY STANDARD CONSTRUCTION TECHNIQUES.

7. UPON AWARD OF CONTRACT, THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND PLAN OUT/LAY OUT THE WORK INCLUDING VERIFYING THE EXISTING DIMENSIONS. ISSUES WILL BE PRESENTED AT THE PRE-CONSTRUCTION MEETING FOR COORDINATION PURPOSES. REPORT ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE DRAWINGS TO THE ARCHITECT

8. GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE THE WORK OF ALL TRADES, ALL SUBCONTRACTORS AND THEIR INTERFACE WITH ALL EXISTING CONDITIONS DURING BID AND CONSTRUCTION.

9. CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION, SAFETY, SHORING AND BRACING. CONTRACTOR SHALL CORDON OFF ALL AREAS DEEMED DANGEROUS AND MONITOR ALL ACTIVITIES ON SITE TO PROVIDE A SAFE AND CLEAN ENVIRONMENT FOR WORK. THE BUILDING WILL BE IN OPERATION TO THE GENERAL PUBLIC DURING CONSTRUCTION. CONTRACTOR WILL COORDINATE ALL CLOSINGS AND WORK IN ADVANCE WITH TOWNSHIP & ARCHITECT PRIOR TO EFFECTING AREAS THAT THE GENERAL PUBLIC CAN ACCESS.

10. ALL WORK TO BE IN COMPLETED IN ACCORDANCE WITH APPLICABLE CODES, REQUIREMENTS AND REGULATIONS OF ALL GOVERNING AUTHORITIES HAVING JURISDICTION OVER THIS WORK, INCLUDING LOCAL UTILITY COMPANIES AND IN ACCORDANCE WITH FIRE UNDERWRITER'S

11. DO NOT SCALE DRAWINGS, USE DIMENSIONS GIVEN. DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED MEASUREMENTS AND DETAILS OVER GENERAL DRAWINGS. GIVEN DISCREPANCY OR MISSING DIMENSIONS CONTACT ARCHITECT & CONSTRUCTION MANAGER PRIOR TO COMMENCEMENT OF WORK IN THE QUESTIONABLE AREA.

12. PERMITS MAY BE REQUIRED FROM MULTIPLE AGENCIES INCLUDING LOCAL MUNICIPALITY AND POSSIBLY ACCESSIBILITY ADVISORY BOARD. CONTRACTOR IS TO CONTACT LOCAL JURISDICTIONS TO DETERMINE THE EXTENT OF PERMITS AND INSPECTIONS THAT WILL BE REQUIRED. PERMIT COSTS ARE WAIVED FOR THIS PROJECT BUT PERMITS ARE TO BE PULLED BY THE GENERAL CONTRACTOR & SPECIFIC TRADE CONTACTORS.

13. CONTRACTOR SHALL MAINTAIN GENERAL AND PROFESSIONAL INSURANCE AS LIMITS AGREED TO BY THE OWNER AND SHALL LIST THE OWNER, AND BAU ARCHITECTURE, AS ADDITIONAL INSURED PARTIES.

14. NOT USED

15. FINAL FINISHES SHALL BE COORDINATED AND REVIEWED WITH OWNER PRIOR TO ORDERING. FINISHES, IF SPECIFIED, ARE INTENDED TO SET A LEVEL OF QUALITY AND CORRESPONDING RECOMMENDED INSTALLATION REQUIREMENTS. SAMPLES SHALL BE PRESENTED FROM MANUFACTURERS STANDARD COLORS FROM THE PALATES DENOTED ON FINISH SCHEDULE. CONTRACTOR IS TO INCLUDE TIME IN BID TO COORDINATE FINISH SCHEDULE WITH ARCHITECT AND OWNER. ALL FINISHES SHALL BE SUBMITTED AS A COMPLETE GROUP FOR REVIEW.

16. HARDWARE SHALL BE REVIEWED AND COORDINATED WITH OWNER PRIOR TO SHOP DRAWINGS TO COORDINATE WITH EXISTING SYSTEMS. HARDWARE SHOWN IS TO DENOTE BASIC LEVEL OF QUALITY, ACTION AND QUANTITY FOR BIDDING. CONTRACTOR IS TO INCLUDE TIME IN BID TO COORDINATE HARDWARE WITH ARCHITECT, OWNER & ANY EXISTING SYSTEMS IN USE. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL RE-KEYING AND LOCKING TO MATCH OWNER'S EXISTING SYSTEMS.

17. CONTRACTOR SHALL MAINTAIN SAFETY BARRIERS AND PROCEDURES DURING WORK AND BE MINDFUL THAT THE PUBLIC, CHILDREN AND OTHER PERSONS MAY BE IN THE AREA. DUST AND DEBRIS ARE TO BE ISOLATED AND EVACUATED FROM FACILITY WITH MINIMAL EFFECT UPON THE INHABITANTS.

GENERAL PROJECT NOTES CONTINUED

18. ALL DIMENSIONS OF EXISTING CONSTRUCTION ARE SHOWN FOR PLANNING PURPOSES. CONTACTOR SHALL VERIFY ALL EXISTING DIMENSIONS PRIOR TO ORDERING OR COMMENCING ANY WORK, AND DURING BID AS POSSIBLE.

19. ALL INSULATION FACING EXPOSED TO OPEN SPACES SHALL HAVE FS FACING PER BUILDING CODE.

20. NOT USED

22. IF PORTIONS OF THIS PROJECT ARE TO BE COMPLETED THROUGH DESIGN-BUILD CONTRACTS. THE DESIGN-BUILD CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND PERFORMANCE OF THE DESIGN-BUILT WORK. THE WORK SHALL COMPLY WITH ALL APPLICABLE CODES, PROPER PERMITS OBTAINED AND WORK SHALL BE INSPECTED BY THE APPLICABLE CODE AGENCIES. BAU ARCHITECTURE MAY DENOTE DESIGN INTENT WITHIN THE DRAWINGS BUT THE PERFORMANCE, QUALITY, CODE COMPLIANCE, AND LIABILITY OF THE WORK SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE DESIGN-BUILD SUBCONTRACTORS AND PRODUCT SUPPLIERS.

23. REFER TO ARCHITECTURAL DRAWINGS FOR THE LAYOUT AND LOCATION OF ALL LIGHTING, UTILITIES, ACCESSORIES, AND EQUIPMENT. ITEMS INSTALLED PER THE MEP-FP DRAWINGS AND NOT THE ARCHITECTURAL DRAWINGS SHALL BE RELOCATED AT CONTRACTOR'S EXPENSE.

GIVEN CONFLICT, LACK OF INFORMATION OR WHAT ARE BELIEVED TO BE OUTDATED DRAWINGS CONTACT THE ARCHITECT PRIOR TO LAYOUT AND INSTALLATION. ARCHITECT WILL PROVIDE A RESPONSE TO LAYOUT QUESTIONS WITHIN 24 HOURS.

24. JOINTS BETWEEN NEW WALLS AND EXISTING WALLS TO BE CAULKED AND PAINTED, TYP. CONTRACTOR IS RESPONSIBLE TO FULLY CAULK, SEAL, AND PAINT ALL TRANSITIONS/SEAMS BETWEEN EXISTING CONSTRUCTION AND NEW PARTITIONS TO ENSURE A SMOOTH AND LEVEL FINISH WITH NO GAPS OR DEFECTS, TYPICAL FOR PROJECT.

25. ALL LIGHT FIXTURES SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE CEILINGS AND NOT THE CEILING TILE OR GRIDS PER CODE.

26. NEW FLOORS TRANSITIONING INTO EXISTING FLOORS SHALL BE FLASHED BACK A MINIMUM OF 32" TO CREATE A FLUSH TRANSITION WITHOUT NEED FOR TRANSITION STRIPS OR THRESHOLDS UNLESS NOTED OTHERWISE. TYPICAL FOR PROJECT.

27. IF THE INTENT OF THE OWNER IS TO CONTINUE USE OF THE BUILDING DURING CONSTRUCTION CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL CURRENT EXITING DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO COORDINATE WORK WITH OWNER FOR SCHEDULE OF ACTIVITIES IN REGARDS TO ANY CONSTRUCTION DUST & DEBRIS & NOISE. CONTRACTOR TO GIVE OWNER 48 HOURS MINIMUM PRIOR NOTICE PRIOR TO COMMENCING ANY WORK. DUE TO CONTINUED USE OF SPACE DURING CONSTRUCTION, CONTRACTOR IS RESPONSIBLE TO SECURE WORK AREAS PRIOR TO LEAVING EACH DAY AS WELL AS SECURE ALL TOOLS, SUPPLIES, ETC.

28. STANDARD ABBREVIATIONS USED:

N.I.C. - NOT IN CONTRACT V.I.F. - VERIFY IN FIELD

U.N.O - UNLESS NOTED OTHERWISE C.L.R.- CLEAR

T.Y.P. - TYPICAL O.A.E.- OR APPROVED EQUAL

EQ. - EQUAL

C.L. - CENTERLINE W/ - WITH

DEMOLITION GENERAL NOTES

1. ALL DEMOLITION WORK SHALL BE PERFORMED WITH "DUE CARE AND DILIGENCE" SO AS TO PREVENT THE ARBITRARY DESTRUCTION OR INTERRUPTION OF CONCEALED UTILITIES WHICH COULD NOT BE PREDETERMINED UNTIL DEMOLITION WAS STARTED. ALL SUCH DISCOVERIES OF UTILITIES DURING THE DEMOLITION PROCESS WHICH ARE IN A LOCATION DIFFERENT FROM THAT INDICATED, CHANGE DIRECTION FROM FLOOR TO FLOOR, ETC., OR ARE UNIDENTIFIED, SHALL BE REPORTED TO THE ARCHITECT, OWNER AND TOWNSHIP BEFORE REMOVAL FOR FINAL DISPOSITION.

2. REMOVE ALL CONSTRUCTION DESIGNATED TO BE REMOVED & CLEAR TO RECEIVE NEW WORK AS HEREIN INDICATED. PATCH TO MATCH ADJACENT CONSTRUCTION - TYPICAL. CONSTRUCTION EFFECTED BY DEMOLITION WORK SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION EVEN IF NEW CONSTRUCTION IS NOT TO BE INSTALLED INCLUDING WALLS, FLOORS AND CEILINGS. PATCHING INCLUDES REPLACING/ REPAIRING CONSTRUCTION WITH SAME MATERIALS, PREPPING AND PAINTING TO MATCH. PATCHING SHALL LEAVE ALL CONSTRUCTION IN A FINISHED STATE ALL TO MATCH EXISTING.

3. WHERE EXISTING EQUIPMENT, PIPING, DUCTS, ETC., ARE REQUIRED TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGARS, FOUNDATIONS, ETC. AFTER REMOVAL, AFFECTED CONSTRUCTION & SURFACES SUCH AS FLOORS, WALLS, BASES & CEILING SHALL BE FINISHED TO MATCH ADJACENT SURFACES UNLESS OTHERWISE NOTED.

4. ALL EQUIPMENT SUCH AS SHELVING, CABINETS, PLUMBING FIXTURES, ELECTRICAL FIXTURES & EQUIPMENT, MECHANICAL EQUIPMENT, AIR CONDITIONER UNITS, ETC., REMOVED SHALL BE TURNED OVER TO THE OWNER, STORED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER & TOWNSHIP.

5. CONTRACTOR IS RESPONSIBLE TO COORDINATE PRE-DEMOLITION WALK THROUGH W/ OWNER & TOWNSHIP TO COORDINATE DEMOLITION WORK & ITEMS TO BE TURNED OVER TO OWNER.

6. DEMOLITION WORK SCOPE IS DENOTED THROUGHOUT THIS SET OF DRAWINGS. CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL DEMOLITION WORK WITH ALL NEW WORK.

7. CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EXITING AND SAFETY FEATURES DURING CONSTRUCTION. IT IS THE INTENTION OF THE OWNER TO CONTINUE TO USE THE BUILDING AND PROJECT AREA DURING CONSTRUCTION UNLESS OTHERWISE NOTED. CONTRACTOR IS TO COORDINATE DEMOLITION SCHEDULE WITH THE OWNER AND TOWNSHIP.

8. LOCATION OF DUMPSTERS MUST BE COORDINATED WITH OWNER & TOWNSHIP AND MUST BE MONITORED DURING THE DAY AND MAY BE REQUESTED TO BE REMOVED AT END OF THE DAY. NO DUMPSTERS SHALL REMAIN ON SITE WITHOUT COVER AND SAFETY FENCING UNLESS OTHERWISE AGREED TO.

9. ALL EQUIPMENT, MATERIALS, TOOLS, AND ACCESSORIES SHALL BE MONITORED DURING THE DAY AND SECURED AFTER HOURS. PERSONS MAY BE PRESENT ON SITE DURING THE DAY AND AFTER HOURS. WORK AREAS SHALL BE CORDONED OFF FROM PUBLIC AREAS AND SAFETY HAZARDS MINIMIZED. CONTRACTOR IS RESPONSIBLE TO EMPLOY SAFETY PROCEDURES AND PROTOCOLS TO MAINTAIN A SAFE AND CLEAN WORK SITE.

10. IF THE PROJECT INVOLVES ALTERNATES, THE CONTRACTORS ARE RESPONSIBLE TO COORDINATE DEMOLITION WORK REQUIRED AS PART OF THE ALTERNATES AND INCLUDE IN THE COST OF THE ALTERNATES.

11.GENERAL CONTRACTOR IS LIABLE FOR ANY DAMAGE TO EXISTING PARKING LOT AND IS TO PROVIDE DOCUMENTATION OF EXISTING CONDITIONS.

PROJECT SCOPE & ALTERNATES

WORK INVOLVES THE CONSTRUCTION OF A NEW ADA ACCESSIBLE TOILET ROOMS WITHIN AN EXISTING GYMNASIUM BUILDING. WORK INCLUDES INSTALLATION OF NEW WATER SUPPLY AND WASTE LINES TO BE TIED INTO EXISTING SYSTEMS, CONSTRUCTION OF WALLS, INSTALLATION OFF NEW FINISHES.

LIST OF DRAWINGS AND SPECIFICATIONS

		ISSUE INDI	EX						
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1		9.10.2019	OWNER REVIEW SET - AR	CHITE	ECTU	RE			
2									
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CS	(COVER SHEET							
D1		DEMOLITION P	LANS						
A1	N	NEW WORK PL	ANS						
A2	Е	LEVATIONS							
A3	[DETAILS & SCH	HEDULES						
	MEC	CHANICAL							
M0	١	MECHANICAL (COVER SHEET						
M1	F	PLANS							
	ELE	CTRICAL							
E0	Е	LECTRICAL C	OVER SHEET						
E1	F	PLANS							
	PLU	MBING							
P0	F	PLUMBING CO	VER SHEET						
P1	F	PLANS							
P2	5	SPECIFICATION	NS						

PROJECT CONTACTS

215.836.7600

CONTACTS
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SPRINGFIELD TOWNSHIP

ARCHITECT & PROJECT MANAGER

DAVE KRATZER, PROJECT PRINCIPAL
BAU ARCHITECTURE
215.206.0962

MULTIPLE PRIME CONTRACT BIDS

THIS PROJECT IS A MULTIPLE PRIME CONTRACT PROJECT WITH THE FOLLOWING BIDS:

GENERAL CONSTRUCTION BASE BID
 MECHANICAL CONSTRUCTION BASE BID

ELECTRICAL CONSTRUCTION BASE BID
 PLUMBING CONSTRUCTION BASE BID

ALTERNATES

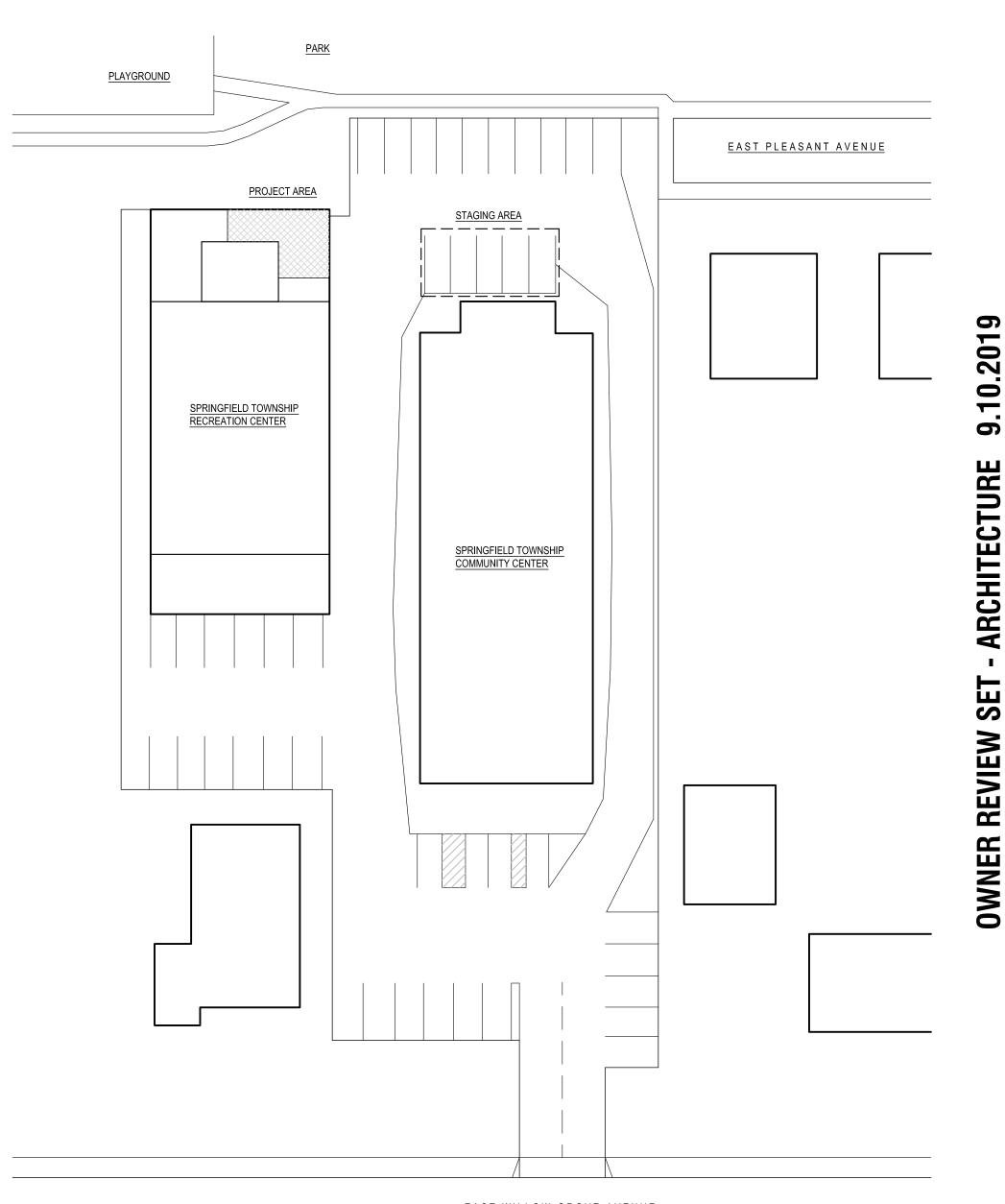
BASE BID: AS INDICATED ON CONSTRUCTION DOCUMENTS

ADD ALTERNATE NO. 1: GENERAL CONTRACTOR TO PROVIDE ENTIRE MECHANICAL WORK SCOPE IF SEPARATE PRIME MECHANICAL BID IS NOT RECEIVED OR IS REJECTED.

ADD ALTERNATE NO. 2: GENERAL CONTRACTOR TO PROVIDE ENTIRE ELECTRICAL WORK SCOPE IF SEPARATE PRIME ELECTRICAL BID IS NOT RECEIVED OR IS

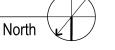
ADD ALTERNATE NO. 3: GENERAL CONTRACTOR TO PROVIDE ENTIRE PLUMBING WORK SCOPE IF SEPARATE PRIME PLUMBING BID IS NOT RECEIVED OR IS REJECTED.

ADD ALTERNATE NO. 4: ADD GUARD MESH PANELS & LOWER RAIL TO EXTERIOR RAMP, ELEVATED WALKWAY & STAIRS. RAILS NEW LOWER RAIL & HANDRAILS ON ADA RAMP ARE INCLUDED AS PART OF BASE BID.



EAST WILLOW GROVE AVENUE

Overall Site Plan & Roof Plan



Welcome to
Springfield
Township
MONTGOMERY COUNTY

SPRINGFIELD TOWNSHIP Recreation Center

ADA TOILET ROOM RENOVATIONS Wyndmoor



architecture planning

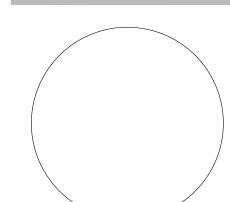
research design

7913 Park Avenue Elkins Park, PA 19027 215.782.2228 Office 215.782.2226 Fax bauarchitecture.com



• Electric

MEP ENGINEERING
HPE GROUP
905 Castle Hill Lane
Devon, PA 19333 215.370.6975



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MUST BE SEALED AND SIGNED TO BE VALID AND BINDING.

PROFESSIONAL SEAL

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SEE CS OR A0 DRAWINGS FOR GENERAL NOTES

WHICH PERTAIN TO ENTIRE PROJECT AND ALL DISCIPLINES.

2 9.21.19 OWNER REVIEW ARCH 2
1 9.10.19 OWNER REVIEW ARCH

No. Issue Issued For

Job Number: 1903

Proj. Mgr: DK Proj. Arch: DK

Drawn By: DK/MVS Checked By: DK

Scale: NOTED

COVER SHEET
Drawing Title:

CS
Drawing no

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PLAN LEGEND AT : ADA TOILET EXISTING CONSTRUCTION SIGNAGE - CEILING HEIGHT NEW WALL (x'-xx" xxx) CONSTRUCTION CEILING MATERIAL **NEW RATED** NEW DOWN LIGHT WALL CONSTRUCTION **NEW WALL MOUNTED** CONSTRUCTION TO BE DEMOLISHED NEW EXIT LIGHT **EXISTING DOOR** TO REMAIN **NEW DOOR** SUPPLY GRILL APPLICABLE RETURN GRILL CLEARANCES FLOOR SLOPE

REFLECTED CEILING PLAN GENERAL NOTES

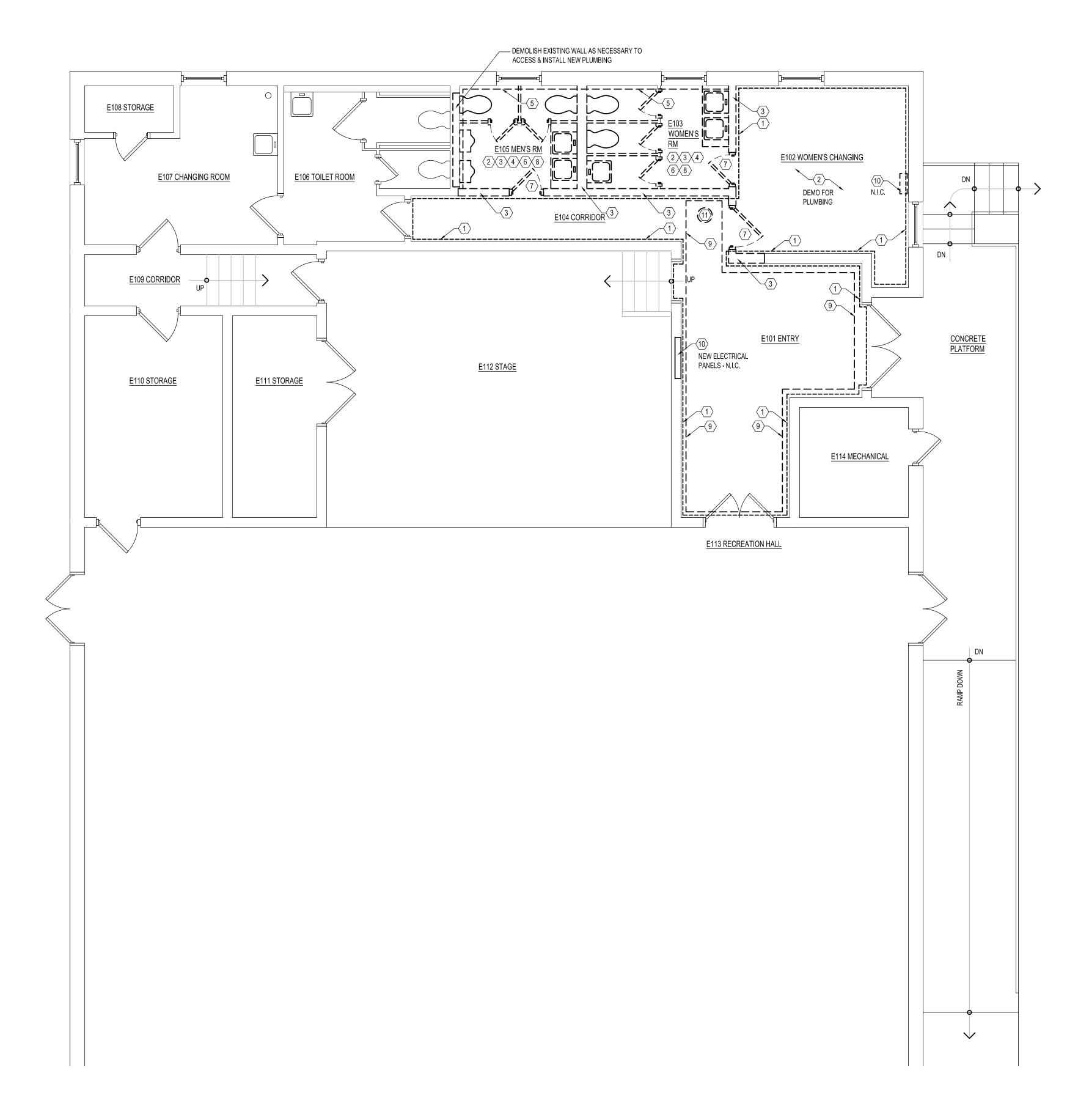
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2. CENTER ALL LIGHTS IN CEILING TILES UNLESS DENOTED OTHEWISE.

3. LIGHTING LOCATIONS IN EXISTING OPENINGS IS ASSUMED. CONTRACTOR TO LAYOUT LIGHTS AND REVIEW WITH ARCHITECT PRIOR TO INSTALLATION - TYPICAL FOR PROJECT.

DEMOLITION NOTES

- EXISTING TILE FLOORING THIS AREA TO BE REMOVED BY CLIENT. CONTRACTOR TO PREPARE SUBFLOOR FOR NEW FLOORING INSTALLATION. AREA OF REMEDIATED TILE SHOWN IS APPROXIMATELY 375 SF.
- DEMOLISH EXISTING TILE FLOOR THIS ROOM & PREPARE TO ACCEPT NEW SCHEDULED TILE FLOOR FINISH. CUT EXISTING CONCRETE SLAB AS NECESSARY TO RUN NEW SANITARY & PLUMBING LINES TO NEW SCHEDULED FIXTURES. COMPACT SOIL & INSTALL CRUSHED STONE AND MINIMUM 4" NEW CONCRETE SLAB. PREPARE TO RECEIVE NEW FINISH. SEE PLUMBING DRAWINGS FOR EXTENT OF SLAB DEMOLITION.
- DEMOLISH EXISTING CONSTRUCTION & PREPARE FOR NEW CONSTRUCTION INCLUDING, WALLS & FLOORS & SUSPENDED ACT CEILINGS. EXISTING PLASTER CEILING IS TO REMAIN. WALL DEMO INCLUDES WALL TILE & ANY SETTING BED. TILE, TOILET PARTITIONS AND PREPARE FOR NEW PARTITIONS. DEMOLISH ALL ELECTRICAL & PLUMBING NOT SCHEDULED TO REMAIN.
- DEMOLISH EXISTING PLUMBING FIXTURES THIS ROOM & TEMPORARILY CAP PLUMBING LINES AS NECESSARY DURING CONSTRUCTION.
- DEMOLISH WALL TILE BACK TO CMU AND PREPARE FOR NEW WALL TILE TYPICAL FOR WORK AREA.
- REMOVE EXISTING TOILET PARTITIONS, TOILET ACCESSORIES, WALL MOUNTED MIRRORS, SHELVES, TOILET PAPER DISPENSERS AND SANITARY NAPKIN DISPENSERS THIS ROOM. HOLD HAND DRYERS FOR OWNER. COORDINATE WHICH ITEMS ARE TO BE TURNED OVER TO THE OWNER & WHAT WILL BE DISPOSED OF.
- 7 REMOVE DOORS, FRAMES & TRIM
- REMOVE EXISTING LIGHTING IN TOILET ROOMS & PREPARE FOR NEW LIGHT INSTALLATION. EXISTING WIRING MAY BE REUSED.
- REMOVE EXISTING SUSPENDED ACT CEILING TILES & GWB THIS AREA AS NECESSARY TO INSTALL NEW CEILING. EXISTING LIGHTS ARE TO REMAIN U.N.O. INSTALL NEW CEILING TILES IN EXISTING GRID IN E101 ENTRY.
- EXISTING ELECTRICAL SERVICE FEED & JUNCTION BOX TO BE DEMOLISHED & REROUTED TO NEW PANELS BY OWNER N.I.C.
- 11 DEMOLISH EXISTING LIGHT FIXTURE





SPRINGFIELD TOWNSHIP Recreation Center

ADA TOILET ROOM
RENOVATIONS
Wyndmoor
Pennsylvania



planning research design

7913 Park Avenue Elkins Park, PA 19027 215.782.2228 Office 215.782.2226 Fax bauarchitecture.com



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HPE GROUP

905 Castle Hill Lane

Devon, PA 19333 215.370.6975

10.2019

5

REVIEW

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PROFESSIONAL SEAL
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9.21.19 OWNER REVIEW ARCH 2

1 9.10.19 OWNER REVIEW ARCH

No. Issue Issue For

Job Number: 1903

Proj. Mgr: DK Proj. Arch: DK

Drawn By: DK/MVS Checked By: DK

Scale: NOTED

DEMOLITION PLANS

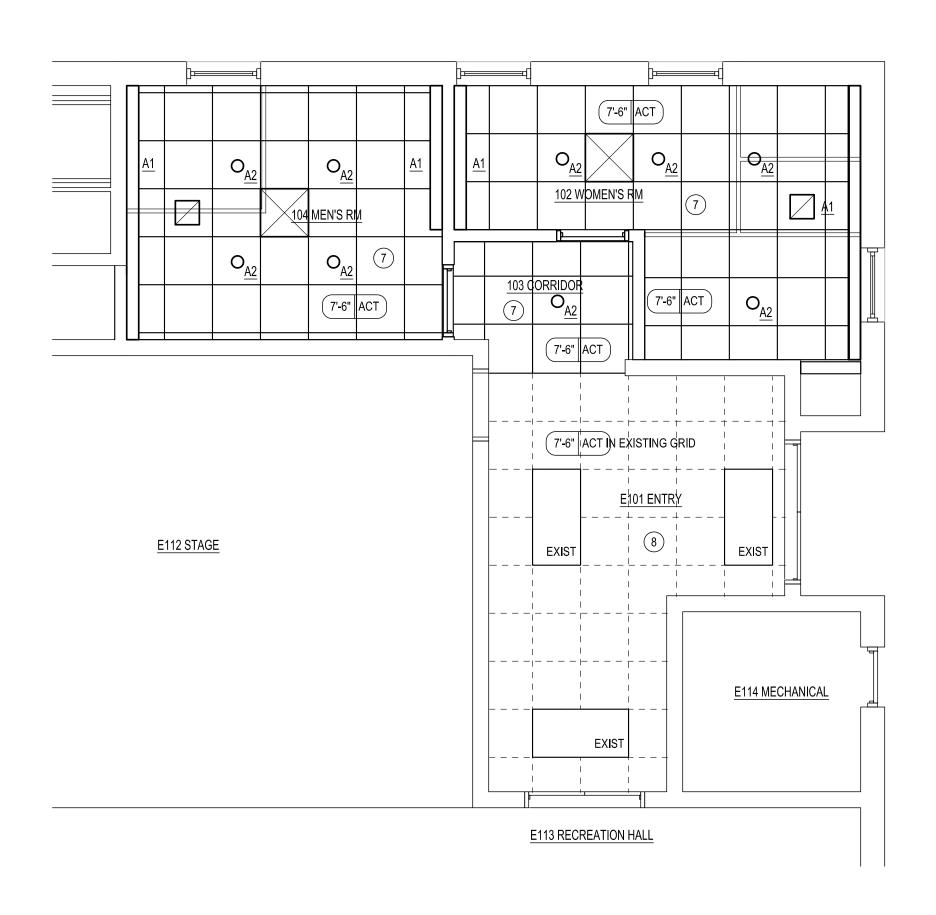
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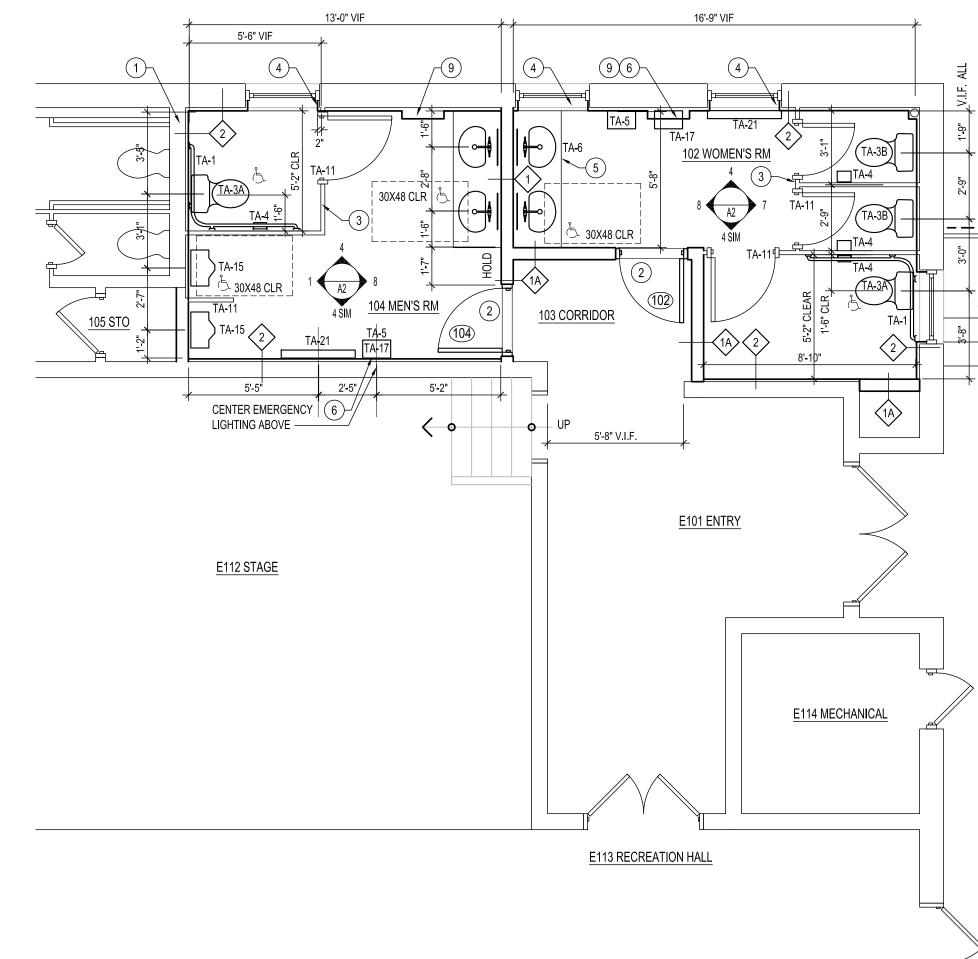
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Drawing no

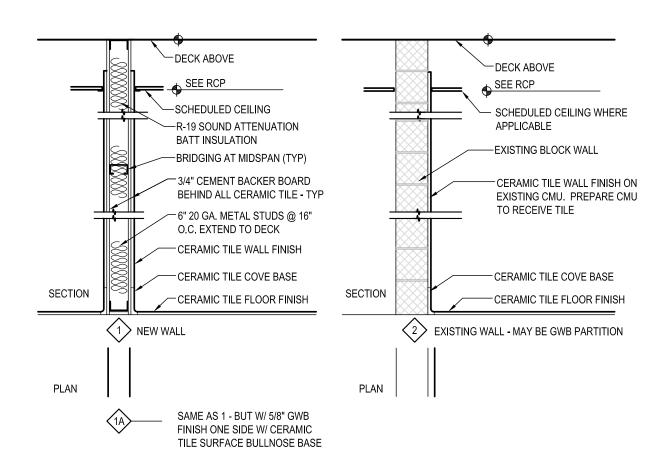
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Existing Conditions & Demolition Floor Plan





New Work Reflected Ceiling Plan USE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL EQUIPMENT &



ACCESSORIES - TYPICAL

New Work Floor Plan Scale: 1/4" = 1'-0"

USE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL EQUIPMENT &

PLAN LEGEND

AT : ADA TOILET **EXISTING** CONSTRUCTION SIGNAGE —— CEILING HEIGHT NEW WALL CONSTRUCTION CEILING MATERIAL NEW RATED NEW DOWN LIGHT WALL CONSTRUCTION NEW WALL MOUNTED CONSTRUCTION LIGHT DEMOLISHED NEW EXIT LIGHT EXISTING DOOR TO REMAIN NEW DOOR 60" \boxtimes SUPPLY GRILL APPLICABLE RETURN GRILL CLEARANCES FLOOR SLOPE

REFLECTED CEILING PLAN GENERAL NOTES

-ALTERNATE: INSTALL

FLEXIBLE STAINLESS

WALKWAY, STAIR RAILS

AND RAMP GUARD RAIL

A2 ALTERNATE

·ALTERNATE: INSTALL

FLEXIBLE STAINLESS STEEL WIRE ROPE

MESH GUARD SCREEN

WALKWAY, STAIR RAILS AND RAMP GUARD RAIL

A2 ALTERNATE

- NEW PAINTED STEEL

LOWER RAMP EDGE

PIPE HANDRAIL & ADA

FOR ELEVATED

STEEL WIRE ROPE MESH GUARD SCREEN

FOR ELEVATED

CONCRETE

PLATFORM

 $\frac{3}{A2}$

HANDRAIL

NEW PAINTED STEEL PIPE —

WALL HANDRAIL

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3. LIGHTING LOCATIONS IN EXISTING OPENINGS IS ASSUMED. CONTRACTOR TO LAYOUT LIGHTS AND REVIEW WITH ARCHITECT PRIOR TO INSTALLATION - TYPICAL FOR PROJECT.

NEW WORK GENERAL NOTES

1. CONTRACTOR TO FIELD MEASURE FOR ALL DIMENSIONS NOT EXPLICITLY GIVEN IN THE CONTRACT DOCUMENTS. CONTRACTOR IS NOT TO SCALE DRAWINGS TO OBTAIN DIMENSIONS NOT PROVIDED. CONTRACTOR TO NOTIFY ARCHITECT IMMEDIATELY IF CRITICAL DIMENSION IS REQUIRED AND NOT PROVIDED PRIOR TO COMMENCING WITH ANY FURTHER WORK. ARCHITECT AND OWNER WILL NOT BE HELD RESPONSIBLE FOR ANY ADDITIONAL COSTS OR

<u>DELAYS INCURRED BY FAILURE COMPLY WITH THIS DIRECTIVE</u>

2. GIVEN THE COMPLEXITY OF THE EXISTING CONDITIONS, CONTRACTOR IS TO LAYOUT ALL WALLS & WORK FOR REVIEW BY ARCHITECT PRIOR TO INSTALLATION TO CONFIRM COORDINATION.

3. FACILITY SHALL REMAIN IN USE DURING CONSTRUCTION. CONTRACTOR IS TO COORDINATE SCHEDULE WITH OWNER AND ARCHITECT TO MINIMIZE DOWNTIME FOR FACILITY.

4. WORK SCOPE IS SHOWN THROUGHOUT THE SET OF DRAWINGS -PRIMARILY THE PLANS AND INTERIOR ELEVATIONS. CONTRACTOR IS TO COORDINATE WORK THROUGH ALL DRAWINGS.

5. CONTRACTOR IS IT INSTALL SOLID BLOCKING FOR ALL GRAB BARS, TOILET ACCESSORIES, AND ALL WALL MOUNTED EQUIPMENT AND DEVICES - TYPICAL FOR PROJECT.

NEW WORK NOTES

- RUN NEW PLUMBING IN EXISTING GWB FURRING WALL
- (2) MARBLE THRESHOLD WITH MAX 1/2" RISE.

DISTRIBUTION OF SERVICES.

BLOCK WALL.

- (3) INSTALL NEW OVERHEAD BRACED TOILET PARTITIONS.
- INSTALL NEW WALL TILE INTO WINDOW RETURNS & PROVIDE SYNTHETIC WINDOWS SILLS SAME AS LAV COUNTERS.
- NEW SYNTHETIC COUNTER TOP AND UNDER MOUNT LAVATORY 5 SINKS.
- INSTALL CONDUIT FOR ELECTRIC HAND DRYER IN CMU BLOCK -6 NOT SURFACE MOUNTED
- INSTALL NEW ACT CEILING BELOW EXISTING PLASTER CEILING (7) IN NEW TOILET ROOMS & 103 CORRIDOR. COORDINATE
- INSTALL NEW ACT CEILING TILES IN EXISTING GRID IN <u>E101</u>

FURR OUT WALL WITH 3-5/8" METAL STUDS & CEMENT BACKERBOARD TO HOUSE RECESSED ELECTRIC HEATER.

INSTALL CERAMIC TILE & STAINLESS STEEL CORNER GUARDS. INSTALL SYNTHETIC TOP SAME AS SINK COUNTER. ELECTRICAL SERVICE FOR EMERGENCY LIGHTING, HANDDRYER & ELECTRIC HEATER SHALL RUN CONCEALED IN

ACCESSORIES - TYPICAL



SPRINGFIELD TOWNSHIP Recreation Center

ADA TOILET ROOM RENOVATIONS Wyndmoor Pennsylvania



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CONSULTANTS. REFER TO ENGINEERING DRAWINGS.) 2019 BAU Architecture, LLC. SEE CS OR A0 DRAWINGS FOR GENERAL NOTES WHICH PERTAIN TO ENTIRE PROJECT AND ALL DISCIPLINES.

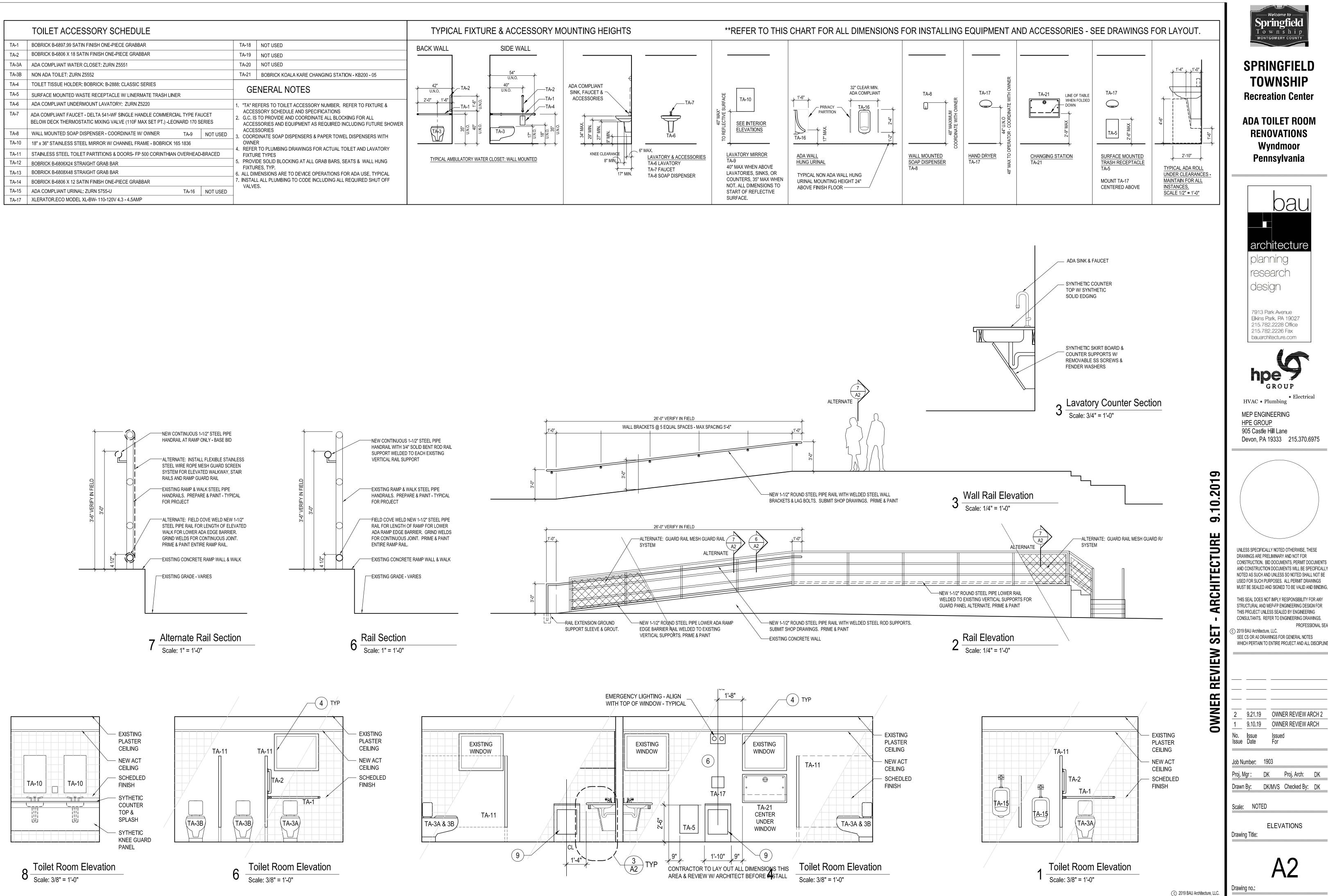
9.21.19 OWNER REVIEW ARCH 2

9.10.19 OWNER REVIEW ARCH No. Issue Issued Issue Date For

Job Number: 1903 Proj. Mgr: DK Proj. Arch: DK Drawn By: DK/MVS Checked By: DK

Scale: NOTED

NEW WORK PLANS Drawing Title:





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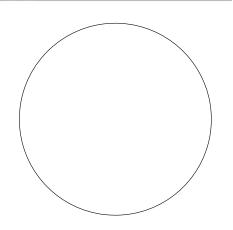
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> 9.21.19 OWNER REVIEW ARCH 2 9.10.19 OWNER REVIEW ARCH

Proj. Mgr: DK Proj. Arch: DK Drawn By: DK/MVS Checked By: DK

ELEVATIONS

DOOR SCHEDULE

DOOR				FRAN	<u> </u>				GENER	AL REQU	IREMENTS
NO.	SIZE (W x HTxTHK)	TYPE	MAT'L	TYPE	MAT'L	HEAD	JAMB	THRESHOLD	RATING	HDW SET	DS NOTES
102	3'-0"x7'-0"x1 3/4"	D1	SCWD	F1	НМ	2/A3	2/A3	1/A3		2	
103	3'-0"x7'-0"x1 3/4"	D1	SCWD	F1	НМ	3/A3	3/A3	1/A3		3	

SCWD = SOLID CORE WOOD. HCW = HOLLOW CORE WOOD. HM = HOLLOW METAL. ALUM = ALUMINUM. FO = FRAMED OPENING WFG= FIBERGLASS WRAPPED WOOD.

GENERAL NOTES 1. FLASH VCT UP TO VINYL PLANK

2. FIBERGLASS DOORS TO BE THERMA TRU PULSE SERIES OR APPROVED EQUAL.

DOOR HARDWARE SCHEDULE FOR BIDDING

HDW SET NO	QTY. EA	A. DESCRIPTION	MFG.	EACH DOOR TO HAVE PART NO.	NOTES
4	3	BUTT HINGE	IVES	5BB1 4.5x4.5 NRP	PUSH PULL PLATES
1	2	PUSH / PULL PLATES WITH CONTINUOUS PULL	SCHLAGE	ND SPA 626	BOTH SIDES OF DOOR
•	1	SURFACE CLOSER	LCN	4010 SERIES	
PASSAGE	3	SILENCER	IVES	SR64	
TOILET RM	2	SS 18" KICKPLATES BOTH SIDES OF DOOR	IVES	8400 18 X 34	
	1	DBL CYLINDER MECHANICAL DEADBOLT	SCHLAGE	B60R6 505	REMOVABLE CORES

HARDWARE SETS ARE SHOWN FOR DESIGN INTENT & TO SET LEVEL OF QUALITY FOR BIDDING PURPOSES. FINAL HARDWARE SELECTIONS ARE TO BE COORDINATED WITH OWNER PRIOR TO ORDERING INCLUDING CONFIRMATION OF SET ACTIONS - BIDDER SHALL INCLUDE IN BID COORDINATION TIME NECESSARY TO REVIEW HARDWARE, MEET WITH OWNER TO FINALIZE NEEDS, AND SUBMIT A COORDINATED HARDWARE SUBMITTAL WITH SCHEDULE OF HARDWARE FOR REVIEW.

2. ALL LOCKSETS SHALL HAVE REMOVABLE CORES. CONTRACTOR WILL PROVIDE CORES AND KEYING. MEET WITH OWNER AND ARCHITECT OR OWNER REPRESENTATIVE

PRIOR TO ORDERING TO COORDINATE KEYING FOR THE BUILDING. 3. ALL HARDWARE BIDS SHALL INCLUDE ALL MISCELLANEOUS ACCESSORIES NECESSARY FOR COMPLETE, FULLY OPERATIONAL & PROPER INSTALLATION AND USE OF HARDWARE INCLUDING ALL FASTENERS, DOOR DROPS, TRANSITION PLATES, SILENCERS, LABELS, FINISH, ETC.

4. ALL HARDWARE SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT (ADA) INCLUDING LEVER HARDWARE AND ADJUSTABLE CLOSERS, CLEARANCES AND HEIGHTS.

5. NOT USED

6. ALL HARDWARE SHALL BE 626 FINISH TYPICAL.

NOT USED

8. IF CLOSER IS NOT REQUIRED FOR SPECIFIC DOOR, AN OVERHEAD STOP 454S BY GLYNN JOHNSON SHALL BE PROVIDED.

9. FOR HOLLOW METAL FRAMES, PROVIDE SILENCERS AND COORDINATE HARDWARE ROUGH OUTS WITH FRAME ORDER.

FINISH SCHEDULE

ROC	DM .	FLOOR	BASE	WALLS				CEILING		REMARKS
NO.	NAME	MATERIAL	MATERIAL MATERIAL		EAST	SOUTH	WEST	MATERIAL	HEIGHT	
E101	ENTRY	VCT1	RB1	PT1	PT1	PT1	PT1	ACT1	7'-6"	EXIST CEILING GRID TO REMAIN IN AREAS SEE RCP
102	WOMEN'S ROOM	CT1	CB1	CT2	CT2	CT2	CT2	ACT1	7'-6"	
103	CORRIDOR	VCT1	RB1	PT1	PT1	PT1	PT1	ACT1	7'-6"	EXIST CEILING GRID TO REMAIN IN AREAS SEE RCP
104	MEN'S ROOM	CT1	CB1	CT2	CT2	CT2	CT2	ACT1	7'-6"	

- 1. GC IS RESPONSIBLE FOR SUBMITTING SAMPLES OF ALL MATERIALS TO OWNER FOR REVIEW AND APPROVAL FOR QUALITY AND COLOR PRIOR TO ORDERING OR INSTALLING ANY PRODUCTS.
- 2. "CT/PT" DENOTES A CERAMIC TILE WAINSCOT WITH PAINT ABOVE. REFER TO 15/A4 FOR TYPICAL FIELD AND ACCENT TILE PATTERN.
- 3. GC IS RESPONSIBLE TO COORDINATE ACCENT WALL COLORS, LOCATIONS, AND QUANTITIES WITH OWNER AND ARCHITECT PRIOR TO ORDERING PAINT.
- 4. GC TO PROVIDE KV HEAVY DUTY BRACKETS AND ADJUSTABLE SHELVES.

FINISH LEGEND

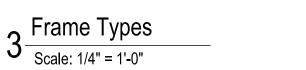
TYPE	MATERIAL	MANUFACTURER	SIZE	SERIES/PATTERN	COLOR	REMARKS
FLOO	R				<u>'</u>	
VCT1	VINYL COMPOSITION TILE	ARMSTRONG	12" X 12"	STANDARD EXCELON	51804 EARTHSTONE GREIGE	FOR BIDDING ONLY
CT1	CERAMIC TILE	CROSSVILLE	12" X 12"	CROSS-COLORS	MINGLES W/ 39 IVORY GROUT	FOR BIDDING ONLY. GEN NOTE 6
BASE						
RB1	RUBBER BASE	JOHNSONITE	4" x 1/8"		48 GREY WG	FOR BIDDING ONLY
CB1	CERAMIC COVE BASE	AMERICAN OLEAN	4 1/4"x 4 1/4"	MATT FIELD TILE	0087 MATTE ALMOND	FOR BIDDING ONLY. GEN NOTE 6
WALL	. TILE					
CT2	CERAMIC TILE	DALTILE	6" X 6"		X735 MATTE ALMOND	FOR BIDDING ONLY. GEN NOTE 6
					48 ALMOND - MAPEI GROUT	
WALL	S & WALLS ABOVE WAINSCOT					
PT1	PAINT	SHERWIN WILLIAMS		EGGSHELL	TBD	GENERAL NOTE 7
DOOR	R & WINDOW TRIM				·	
PT3	PAINT	SHERWIN WILLIAMS		SEMI-GLOSS	TBD	GENERAL NOTE 7
CEILII	 NG					
ACT	ACOUSTIC CEILING TILE	CERTAINTEED	24"x48"	SYMPHONY	WHITE OVERTONE	
EXIST	EXISTING CEILING PAINT	USG/SHERWIN WILLIAMS	5/8"/NA	NA/WATER-RESISTANT	SW 7007 CEILING BRIGHT WHITE	GENERAL NOTE 7

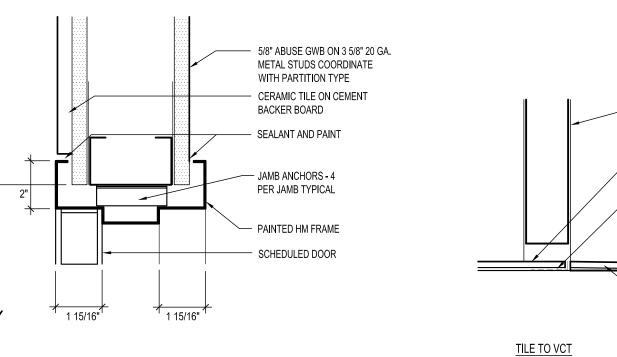
GENERAL NOTES:

- 1. GC IS RESPONSIBLE FOR SUBMITTING SAMPLES OF ALL MATERIALS TO OWNER FOR REVIEW AND APPROVAL FOR QUALITY AND COLOR PRIOR TO ORDERING OR INSTALLING ANY
- PRODUCTS.SELECTIONS ABOVE ARE FOR BIDDING PURPOSES ONLY AND WILL BE VERIFIED AFTER BID AWARD.
- 2. ACCENT COLOR TO RUN SECOND COURSE FROM TOP OF WAINSCOT, TYPICAL 3. TOP COURSE @ WAINSCOT TO BE BULLNOSE FIELD TILES THE SAME SIZE AS WAINSCOT FIELD TILES, TYPICAL.
- 4. FINAL COLOR TBD BY OWNER PRIOR TO ORDERING OR INSTALLATION.
- 6. INSTALL PER TILE PATTERN DETAILS IN CONTRACT DOCUMENTS.
- 7. FOR ALL CERAMIC TILE FLOORS AND WAINSCOT, ASSUME TWO COLORS WILL BE USED TO CREATE FINAL PATTERNS. FIELD TILE 75% AND ACCENT TILE 25%. FOR PAINTING, ASSUME TWO COLORS WILL BE USED FOR WALLS. WALL FIELD COLOR 75% AND ACCENT WALL COLOR 25%... ASSUME EACH ROOM WILL HAVE INDIVIDUAL DOOR TRIM PAING

SCHEDULED " SCHEDULED , WIDTH _ WIDTH FLUSH WOOD DOOR - SCHEDULED DOOR FRAME. IF RATED WITH 18" KICK PLATES. 7-PLY CLEAR DOOR PROVIDE COAT SOLID CORE APPROVED RATED BIRCH DOOR EGGERS FRAME. DOOR (O.A.E.). WOOD, COLOR & FINISH TO TO MATCH EXISTING D1) STYLE: SOLID CORE

Door Types





Typical Head/Jamb Section Detail Scale: 3" = 1'

THRESHOLD Typical Threshold Section

DOOR OR WALL OPENING

- CERAMIC OR PORCELAIN TILE

- SCHIENE-E STAINLESS STEEL

EDGE PROTECTION PROFILE

- FLASH VCT UNDERLAYMENT MINIMUM 32" BACK TO PROVIDE

LEVEL TRANSTION - TYPICAL FOR PROJECT, 1/2" MAX

BY SCHLUTER SYSTEMS -

WHERE OCCURS

ON THINSET BED

TYPICAL



TOWNSHIP Recreation Center

ADA TOILET ROOM RENOVATIONS Pennsylvania



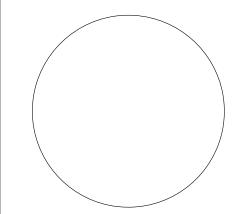
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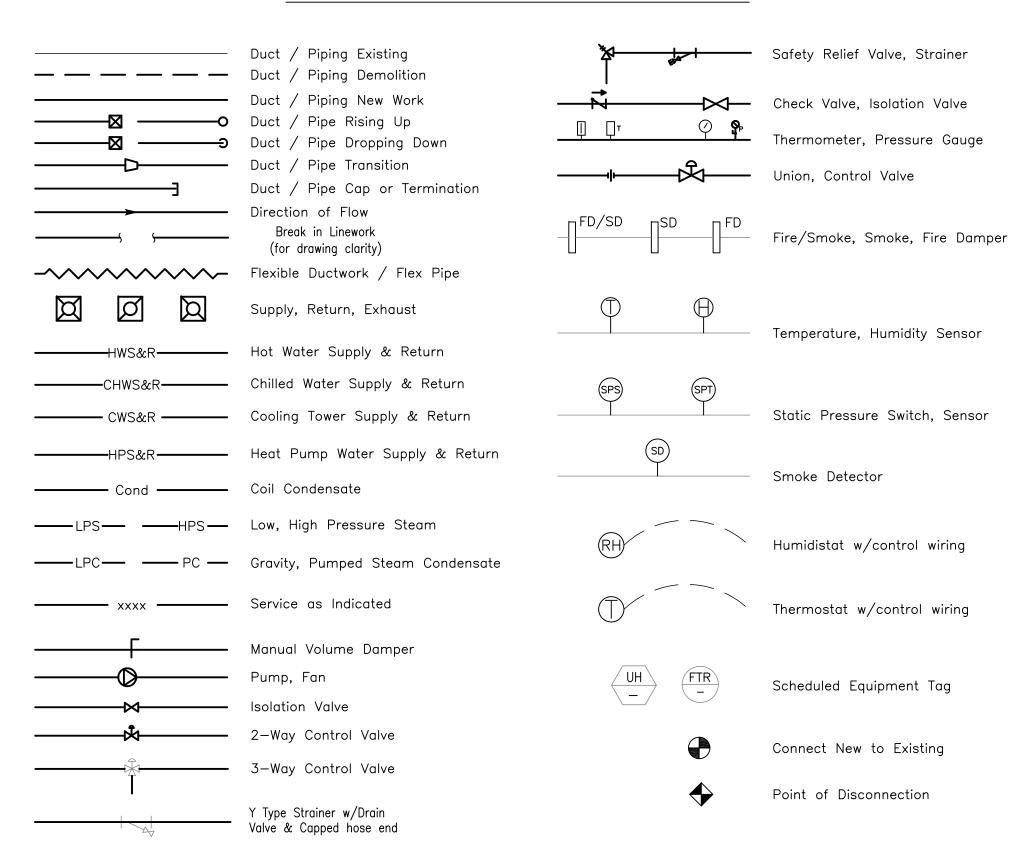
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DETAILS & SCHEDULES Drawing Title:

Drawing no.:

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Mechanical Symbols



Mechanical Abbreviations

AD AFF AHU APD BOD BOP CHWR CWS CWS Coia./Ø DB DN (E) EAT EFF ER EWT FD FO FPM GRD HWR HWS	Access Door Above Finish Floor Air Handling Unit Air Pressure Drop Back Draft Damper Bottom of Duct Bottom of Pipe Combustion Air Cubic Feet per Minute Chilled Water Return Chilled Water Supply Condenser Water Supply Condenser Water Supply Condensate (steam or coil) Diameter Dry Bulb (deg F) Down Existing Exhaust Air Entering Air Temperature Efficiency Existing Relocated External Static Pressure Existing to Remain Entering Water Temperature Fire Damper Combination Fire/Smoke Damper Flat Oval Feet per Minute Gallons per Minute Gallons per Minute Grille, Register or Diffuser Horsepower Hot Water Return Hot Water Supply	LAT LF LPC LWT MAT MBH MCA MOD MVD (N) NC NG NIC NO NTS OA OPD PRV RA RE RHC RTU SA SD Sd SP T TA TU typ VFD WB WMSO WPD WTR	Leaving Air Temperature Linear Feet Low Pressure Condensate Leaving Water Tempertur Mixed Air Temperature Thousand BTUs/Hr Maximum Current Amps Motor Operated Damper Manual Volume Damper New Normally Closed Natural Gas Not In Contract Normally Open Not to Scale Outside Air Opposed Blade Damper Pressure Reducing Valve Return Air Relocate Existing Reheat Coil Rooftop Unit Supply Air Smoke Damper Smoke Detector Static Pressure Thermostat Transfer Air Terminal Unit Typical Variable Frequency Drive Wet Bulb (deg F) Wire Mesh Screen Openin Water Pressure Drop Water Temperature Rise
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Mechanical Specifications

Execution of Work

- 1. Contractor shall be responsible for all materials, labor and equipment to comply with local, state and national codes, regulations and laws in conjunction with any other regulatory bodies having jurisdiction. All equipment shall bear a UL label. Installation shall be in accordance with the 2015 International Mechanical Code.
- 2. Ductwork and piping layout on drawing is schematic in nature. For drawing and layout clarity ductwork may be shown in single or double line format. Provide allowance in bid for duct/pipe transitions / offsets to avoid interferences with other trades. By submission of bid contractor accepts existing conditions in terms of access and installation means and methods. Final routing coordination is the responsibility of the Contractor. Install equipment in strict accordance with manufacturers' instructions, which shall be considered part of these specifications, and provide all appurtanances necessary for a complete and functional system. Provide Owner with one year guarantee on labor, materials and equipment unless otherwise specified. Follow all OSHA standards during installation. All equipment shall be provided with a nameplate or other means of identification. Review ID numbering with Owner and provide nameplate with ID on each piece of equipment. Contractor shall procure all Permits, Inspections and associated fees.
- 3. Provide hangers, supports and miscellaneous metals as required to support ductwork, piping and equipment. Coordinate support requirements for air handling equipment with structural engineer. Vibrating equipment shall be isolated via neoprene or spring isolation hangers/supports unless otherwise indicated. Provide coring, saw cutting and selective demolition of concrete floors, walls & decks as required to accommodate new duct / piping penetrations. Review penetrations with structural engineer and landlord. Provide UL listed sealant materials at each penetration of a fire—rated wall or floor, equal to the fire resistance rating of the penetrated assembly. Mark on wall the UL listing of the penetration. Provide lintels, frames & seals for all openings as required.
- 4. Submit sheetmetal shop drawings at $\frac{3}{8}$ " = 1'-0" scale to Engineer for review prior to fabrication. Allow for 10 business days in construction schedule for each submittal review. Submit for review all equipment specified and scheduled. Provide copies of submittals to other Trades as affected or required for coordination in a timely manner. Provide NEBB/AABC certified air and hydronic balancing to +/- 10% of values shown on drawings. Submit certified T&B report to Engineer for Review. Provide (1) set of marked up Plans to Owner at completion of Project indicating as—built conditions. Provide (2) sets of O&M manuals to Owner for all equipment. O&M manuals shall indicate model # of installed equipment on the cover of the O&M manual for Owner reference.

Sheetmetal Items

- 1. Sheetmetal: Galvanized, G90, steel ductwork and hangers per current SMACNA & ACCA standards. Seal all joints. No 26 ga. ductwork allowed for rectangular and round ducts larger than 12". Slip & drive (1" pressure class) for all ductwork.
- 2. Flex Duct: where permitted. Flex ducts shall be double wall insulated type (Flex Duct Supply and Return Insulation R-Value shall be same as listed in Insulation Specifications). All duct runs to be straight runs, parallel to the building structure. Flex duct runs (not connectors) are unlimited for Class 0 & 1 Flex duct. Flex duct sections shall be cut to length. Flex connectors are limited to 10 feet. Flex ducts shall not have excessive bends, u—turns or be deformed beyond 90% diameter to clear openings. No vertical offsets greater than 1 foot for every 6 feet of duct length. Flex duct shall be insulated as listed below.
- 3. No transitions greater than 30 degrees unless approved by engineer. Provide transition fittings from one duct size to the next. Ductwork sizing shown may be modified by sheetmetal contractor to make for more efficient use of fittings as long as equivilant area is maintained, size is coordinated with field conditions and the aspect ratio of the duct work does not exceed 4 to 1 length to width (unless otherwise noted). All duct runs shall be as short as possible to minimize pressure loss.
- 4. Provide volume damper at all diffuser outlet locations.
- 5. All duct sizes shown are inner dimensions.

Insulation

- 1. All insulation and adhesive shall have a flame spread classification not more than 25 and a smoke developed rating not more than 50. All insulation joints shall be taped & sealed.
- 2. All supply air ductwork in concealed conditioned spaces (e.g. above ceilings) shall be provided with 2" foil back duct wrap 3/4 LB density with a minimum installed R-value of 5.
- 3. Environmental exhaust ductwork (e.g. toilet exhaust) shall NOT be required to be insulated.

EF -	EXH	EXHAUST FAN SCHEDULE									
Tag	FAN CFM	ESP W.G.	Manuf / Model	Motor V/Ph/Hz	Motor HP	RPM	Remarks				
EF-1	300	0.5	Penn Vent / DX06B	120/1/60	1/4	-	Provide w/ BDD & Roof Curb Provide w/ disc. and timer.				

	AIR DEVICE SCHEDULE											
TAG	DEVICE SIZE	MANUFACTURER	MODEL	Max NC	CFM RANGE	ACCESSORIES						
SD-1	12x12	Price	SCD	16	0 - 150	Square cone, steel, white, 6" neck						
EG-1	12x12	Price	530	19	0 - 150	Steel, white, louvered grille, 3/4" blade, 45° deflection, SRA, 6" necl						

All GRDs shall be paintable surface type (coord w/ project architect) Coordinate frame types with ceiling type where GRDs are to be installed (e.g., fineline grid, GWB, exposed, etc.) Provide SDs with integral volume damper.

INSERT HEATER SCHEDULE - ELECTRIC									
Tag	Unit KW	Manufacturer	Model	V/Ph	Remarks				
IH-1	1.5	QMARK	AWH4407	240/1	Provide integral t-stat, local disconnect, high temp cut-out				



SPRINGFIELD TOWNSHIP Recreation Center

ADA TOILET ROOM
RENOVATIONS
Wyndmoor
Pennsylvania



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No. Issue Issued Issued For

Job Number: 19-035

Drawn By: CAD Checked By: THP

Scale: AS NOTED

MECHANICAL COVER SHEET

wing Title:



SPRINGFIELD TOWNSHIP Recreation Center

ADA TOILET ROOM
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Wyndmoor
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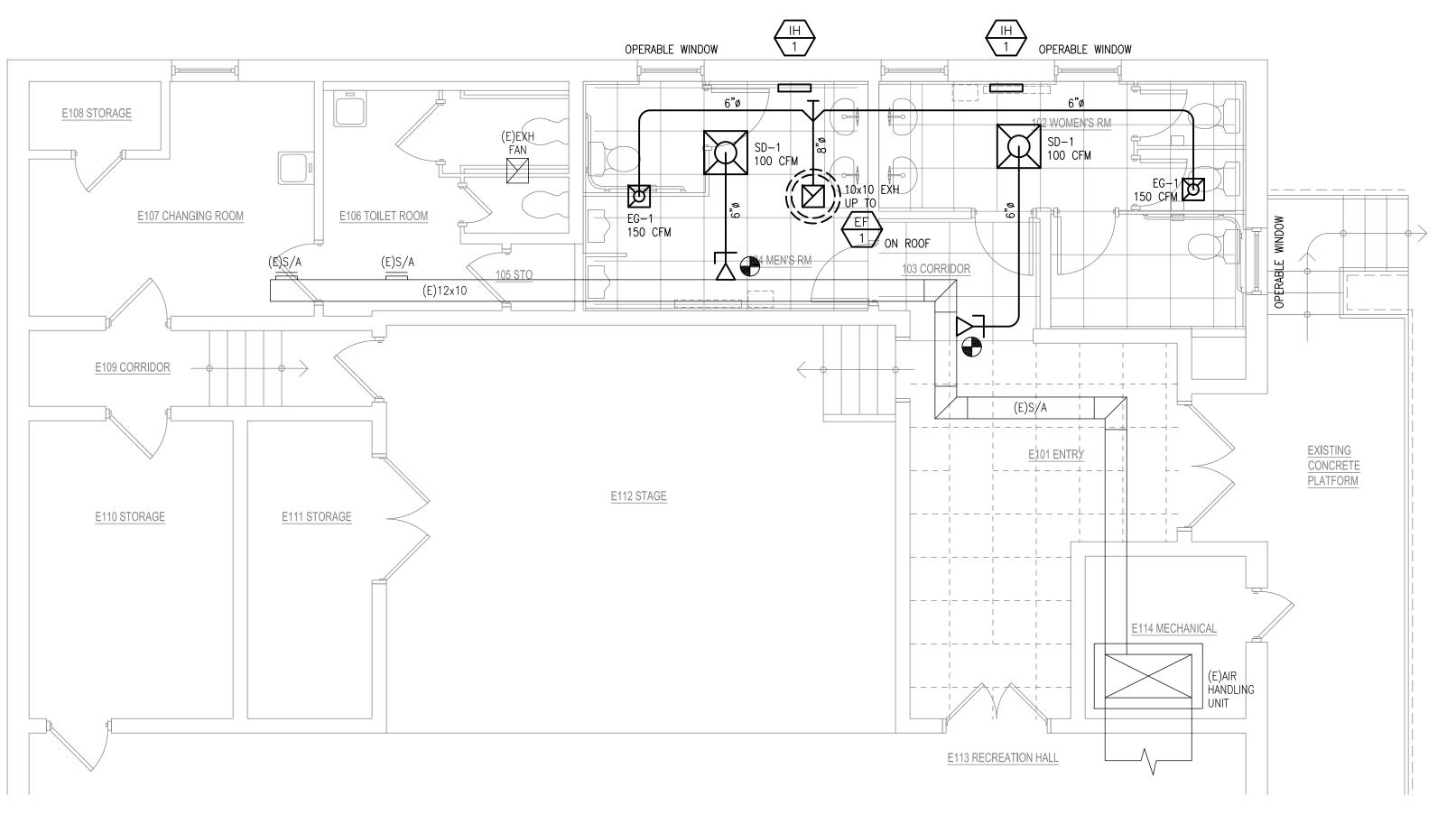
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MECHANICAL
PARTIAL GROUND
FLOOR PLAN

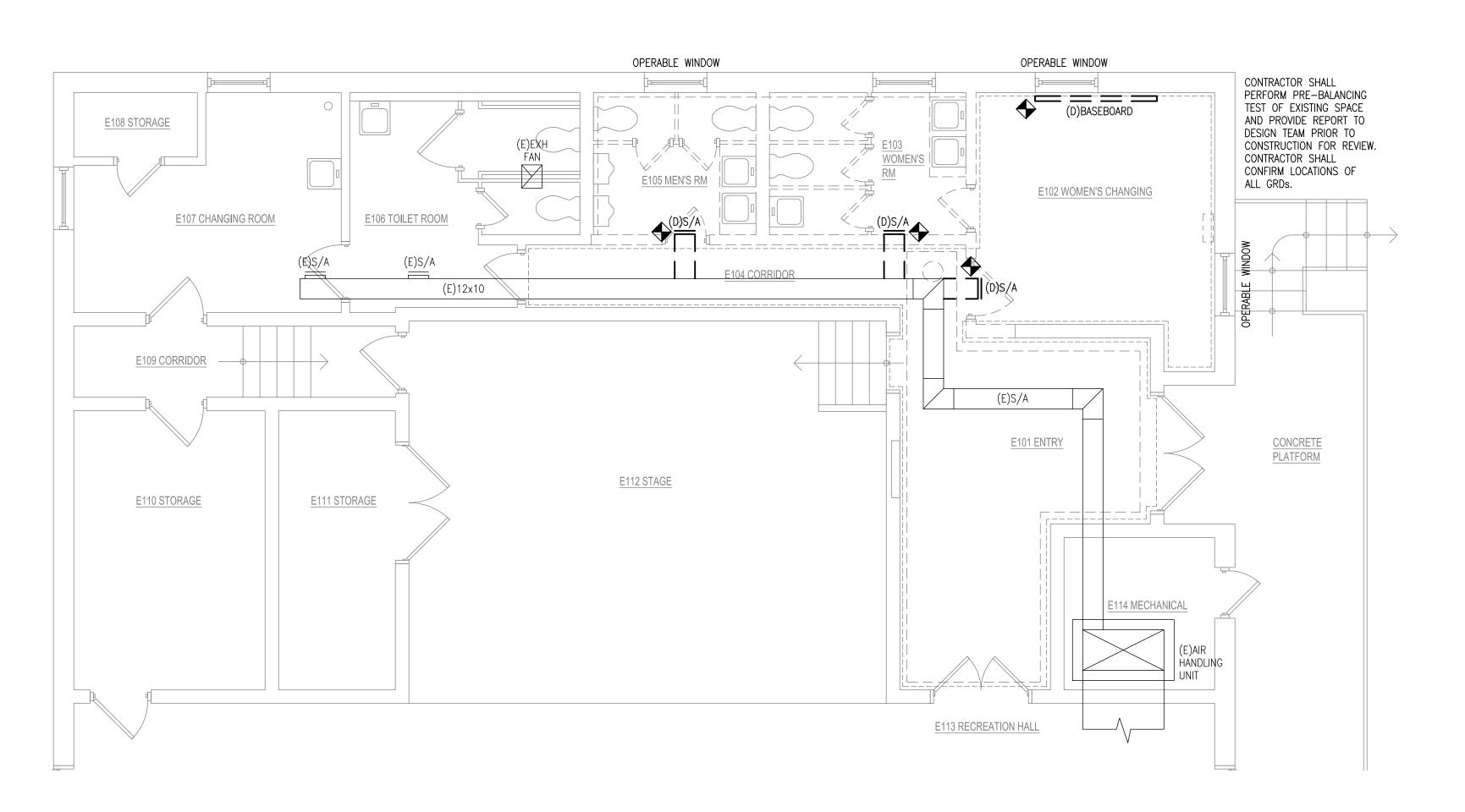
Drawing Title:

M-1

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Partial Ground Floor - NEW WORK PLAN 1/4" = 1' - 0"



ABBREVIATIONS

A OR AMP **AMPERE** AMP FRAME A.I.C. AMPERE INTERRUPTING CAPACITY ALUMINUM AMP TRIP C. OR CDT. CONDUIT CIRCUIT BREAKER C/B CKT **CIRCUIT** COPPER CU. **FMT** ELECTRICAL METALLIC TUBING

EXISTING TO REMAIN EX. EQUIPMENT GROUND CONDUCTOR HEATING. VENTILATING, AIR CONDITIONING HVAC KILOVOLT-AMPERE KVA KILOWATT KW KWH KII OWATT-HOUR LTG. LIGHTING MCB

MAIN CIRCUIT BREAKER MIN. MINIMUM MAIN LUGS ONLY M.L.O. NEUTRAL N.T.S. NOT TO SCALE SWITCH TYPICAL

UNDERWRITERS' LABORATORY WIRE **WEATHERPROOF**

SYMBOLS

RECESSED LAY-IN LIGHT FIXTURE

SINGLE POLE TOGGLE SWITCH

STRIP LUMINAIRE (SURFACE/CEILING MOUNT)

DOWNLIGHT (RECESSED/CEILING MOUNT)

MOTOR

DUPLEX RECEPTACLE

QUADRUPLEX RECEPTACLE GROUND-FAULT CIRCUIT INTERRUPTING RECEPTACLE

₹ EM **J**

S

V

 \Rightarrow

 \Rightarrow

DUAL-TECHNOLOGY OCCUPANCY SENSOR EMERGENCY LIGHTING BATTERY PACK

CONCEALED JUNCTION BOX

BRANCH PANELBOARD

BRANCH CIRCUIT WIRING CONCEALED IN WALL OR ABOVE

CEILING CONSTRUCTION

GENERAL NOTES:

- ALL DEVICE SYMBOLS AND ABBREVIATIONS ON THIS DRAWING MAY NOT NECESSARILY APPEAR ON THE FLOOR PLANS AND DETAIL SHEETS. ONLY THOSE SYMBOLS INDICATED ON THE FLOOR PLANS ARE USED FOR THIS PROJECT. ALL OTHERS ARE TO BE CONSIDERED "NOT USED" AND SHOULD BE
- MOUNTING HEIGHTS SHALL MATCH EXISTING DEVICES AT THIS FACILITY AND/OR AS INDICATED ON THE ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.

Pan	el Name	: :	Panel EP	200A MCB		40 pole		10 KAIC	240/12	0V-1PH	-3W
				Load (VA)		Load (VA)					
Cir.	Cir.	Wire	Description	A	В	A	В	Description	Wire	Cir.	Cir.
No.	Bkr.	Size							Size	Bkr.	No.
1	20/2	2#12	Insert Heater — Mens	750		350		Ltg Restrooms	2#12	20/1	2
3		#12G			750		180	Rec Womens	2#12	20/1	4
5	20/1	2#12	Restroom Exhaust Fan	500		1500		Hand Dryer - Womens	2#12	20/1	6
7	20/1	2#12	Hand Dryer - Mens		1500		750	Insert Heater — Womens	2#12	20/2	8
9	20/1	2#12	Rec Mens	180		750			#12G		10
11			Space		0		0	Space			12
13			Space	0		0		Space			14
15			Space		0		0	Space			16
17			Space	0		0		Space			18
19			Space		0		0	Space			20 22 24 26 28 30
21			Space	0		0		Space			22
23			Space		0		0	Space			24
25			Space	0		0		Space			26
27			Space		0		0	Space			28
29			Space	0		0		Space			30
31			Space		0		0	Space			32 34
33			Space	0		0		Space			34
35			Space		0		0	Space			36
37			Space	0		0		Space			36 38
39			Space		0		0	Space			40

Load Summary (by phase):

Notes: Circuiting shown is for information only. Coordinate the circuiting needs of this project with the panelboard replacement project (by others under separate contract).

30.0 Connect Amps at 240V/1PH

ELECTRICAL SPECIFICATIONS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:

- 1. The work shall include materials, equipment, and labor for systems as shown on contract documents and work for other Divisions required to complete the work ready for operation.
- 2. Contractor shall provide labor, material, equipment, and services for the proper installation and operation of the electrical work as indicated on the Drawings and as specified.
- 3. Labor, material, equipment, and service obviously necessary for the proper installation and operation of electrical systems, although not specifically mentioned or shown, shall be provided.
- 4. No consideration or allowance shall be granted for alleged misunderstanding of the Contract Documents and the work to be performed.
- B. Related Documents and Sections:
- 1. Coordinate this specification with Manufacturer's Instructions.

1.02 REFERENCE, CODE AND SPECIFICATIONS

A. Electrical work shall conform with the latest edition of the National Electrical Code and applicable laws, codes and regulations of municipal, county, state, federal authorities, utility companies, insurance agencies and other authority having jurisdiction over the work.

1.03 PERMITS AND FEES

A. Obtain, pay for and deliver permits and certificates of inspection as required by the authorities having jurisdiction. Deliver certificates to the Owner prior to Final Acceptance of the work. An electrical inspection certificate for each class of work requiring inspection, must be submitted prior to or with the final payment invoice. Contractor must make application for the inspection. coordinate same, and pay the required inspection fee.

1.04 FIELD CONDITIONS

A. Before submitting his bid, Trade Contractor shall verify existing conditions in the field. Failure to do so shall not relieve Trade Contractor of his obligation to pay for costs that may be incurred due to conditions that may affect the cost of installing his work.

1.05 WARRANTIES

A. Work furnished under the Contract shall be warranted against defects in workmanship and materials for a period of not less than one (1) year, or as otherwise specified, from the date of Final Acceptance of the installation. Defects of workmanship developing during this period shall be remedied, and defective material replaced, without additional cost.

4" wide perimeter LED wall slot, 4" regressed lens,

4" diameter recessed LED downlight, clear reflector,

Emergency lighting unit with twin LED lamp heads,

A1 750 lumens per foot, extruded aluminum housing,

A2 white flange, 0-10V dimmable driver, 1,500 lumens

EM white thermoplastic housing, ni-cad battery.

Note: Field-verify voltage prior to ordering.

0-10V dimmable driver.

PART 2 PRODUCTS

2.01 GENERAL

- A. Material and equipment in the work shall be new, first grade. the best of their respective kinds, and appropriate for the application and environment.
- B. Material or equipment specified by manufacturer, brand name, type, or catalog number, are designed to establish standards of desired quality, style, performance, electrical, mechanical and physical characteristics, and dimensions.

2.02 WIRE AND CABLE

- A. Wire and cable for site distribution, power, lighting, control, signal circuits, etc., shall have copper conductors of not less than 98 percent conductivity and shall have THHN insulation to 600V, rated at 90°C. All conductors #6 AWG and greater shall be stranded; all conductors below #6 AWG shall be solid. Equivalent aluminum conductors are acceptable.
- B. Color-code wires for service of 600 volts and less. This identification shall be continuous throughout all termination points, and shall include all feeders and branch circuit wiring. Where cables are not available in these colors (No. 6 AWG and larger), provide colored tape corresponding to the colors below around each cable at each termination and splice. Note that contractor shall follow an existing building color coding system already in use in the facility.

2.03 RACEWAY

A. Electric Metallic Tubing (EMT)

- 1. Electrical metallic tubing shall be standard galvanized or sheradized thin wall steel conduit conforming to the latest edition of FS WW-C-563. Manufacturers: Republic, National, Triangle, Allied.
- 2. Fittings for electrical metallic tubing shall be rain-tight and concrete-tight compression type or steel set screw type, if approved, same material as EMT. Manufactures: 0-Z Gedney Company, Appleton, Raco

B. Rigid Galvanized Steel Conduit (RGS)

RGS shall be galvanized and conform to latest edition of FS WW-C-581. Fittings shall be malleable iron, cadmium or zinc coated, NEMA FB1, U.L. 514B. Manufacturers: Allied, Republic, Wheatland.

C. Metal-clad (MC) cable

Manufacturer

Lightolier

Dual Lite

- 1. Metal clad cables may be used for branch circuit wiring in all areas as defined in NEC Article 330 and subject to acceptance by State and Local Codes, and authority having jurisdiction.
- Cable shall be manufactured by AFC, or equal.
- Cable assemblies shall be constructed in strict accordance with U.L. Standard for Metal Clad Cables, #1569 and/or U.L. Standard for Armor Clad Cables, #4. Cable assemblies shall bear the U.L. Label and the manufacturer's "E" number.
- Cable assemblies shall have passed U.L. 1479, Through Penetration Fire Rating, and meet NEC Article 330.22(c) Environmental Air Handling Spaces.

Catalog Number

490-8-L-C-E-Q-S-N-LENGTH-7-D-E-4-S-1

4RN / P4RDL15830CCZ10U

LZ-series

PART 3 EXECUTION

3.01 INSTALLATION OF CONDUCTORS

- A. Great care shall be exercised in pulling wires into raceways so as not to injure the insulation. Only UL approved pulling compounds, such as Thomas and Betts Type "SWP, shall be used to assist in the pulling of wires.
- B. Vertical cables shall be supported at intervals not greater than those listed in the NEC, Paragraph No. 300-19.
- C. Splicing shall be within outlet boxes or junction boxes. No splicing shall be permitted in mains or feeders.
- D. Conductors No. 10 AWG and smaller shall be made electrically and mechanically secure with mechanical "twist" type connectors.
- E. Wires within equipment, such as panelboards, shall be neatly arranged and tied with cables ties.
- F. Where cable passes through fire rated structures provide fireproof fittings.

3.02 RACEWAYS AND FITTINGS

- A. Raceways shall be concealed in the construction except as otherwise specified or shown.
- 1. Raceways installed exposed or in accessible spaces shall be placed at right angles to or parallel with the building walls and ceilings.
- 2. Conduit runs installed in slabs or below grade shall be rigid steel conduit wherever the conduit exits to another space above grade.
- B. Conduit bends shall be the long radius type. When sufficient area is not available for turning conduits without exposing them. adjust the conduit routing or provide compound bends so as to keep the conduit from being exposed.

3.03 WIRING METHODS

LUMINAIRE SCHEDULE

LED 3000K

LED 3000K

3W LED

- A. Generally wiring shall be done with insulated conductors and ground wire in a metallic cable assembly. All wiring shall be installed concealed in the construction.
- B. Install methods are as follows:
- 1. Use MC cable for all lighting, appliance, and receptacle branch circuits in concealed areas only.
- 2. Use flexible metal conduit for connections to motors and transformers. Use liquidtight flexible metal conduit where such equipment is outside.
- 3. Use EMT for all branch circuits in exposed areas.

Fixture

PER

15

120

120

120

Recessed

Wall

Manufacturers

Approved Equal

Approved Equal

Provide lengths as shown on plan.

C. Raceways shall be supported to comply with the NEC.

This drawing is provided as an instrument of service by hpeGROUP, LLC to the Client. Use or reference of this drawing by any party (Owner, Contractor, Tenant, Design Professional, etc.) is conditioned by the following. hpeGROUP, LLC relied upon the accuracy of information provided by the Client and other parties to this project in preparation of this drawing. Drawings and specifications herein do not constitute a warranty of construction and/or system performance where operation and maintenance of a system has been negligent. All parties agree to hold hpeGROUP, LLC harmless for claims arising from negligent information provided, negligent construction, negligent operations or negligent

SPRINGFIELD

TOWNSHIP

Recreation Center

ADA TOILET ROOM

RENOVATIONS

Wyndmoor

Pennsylvania

architecture

planning

research

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bauarchitecture.com

design

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Scale: AS NOTED

Drawing Title:

Drawing no.:

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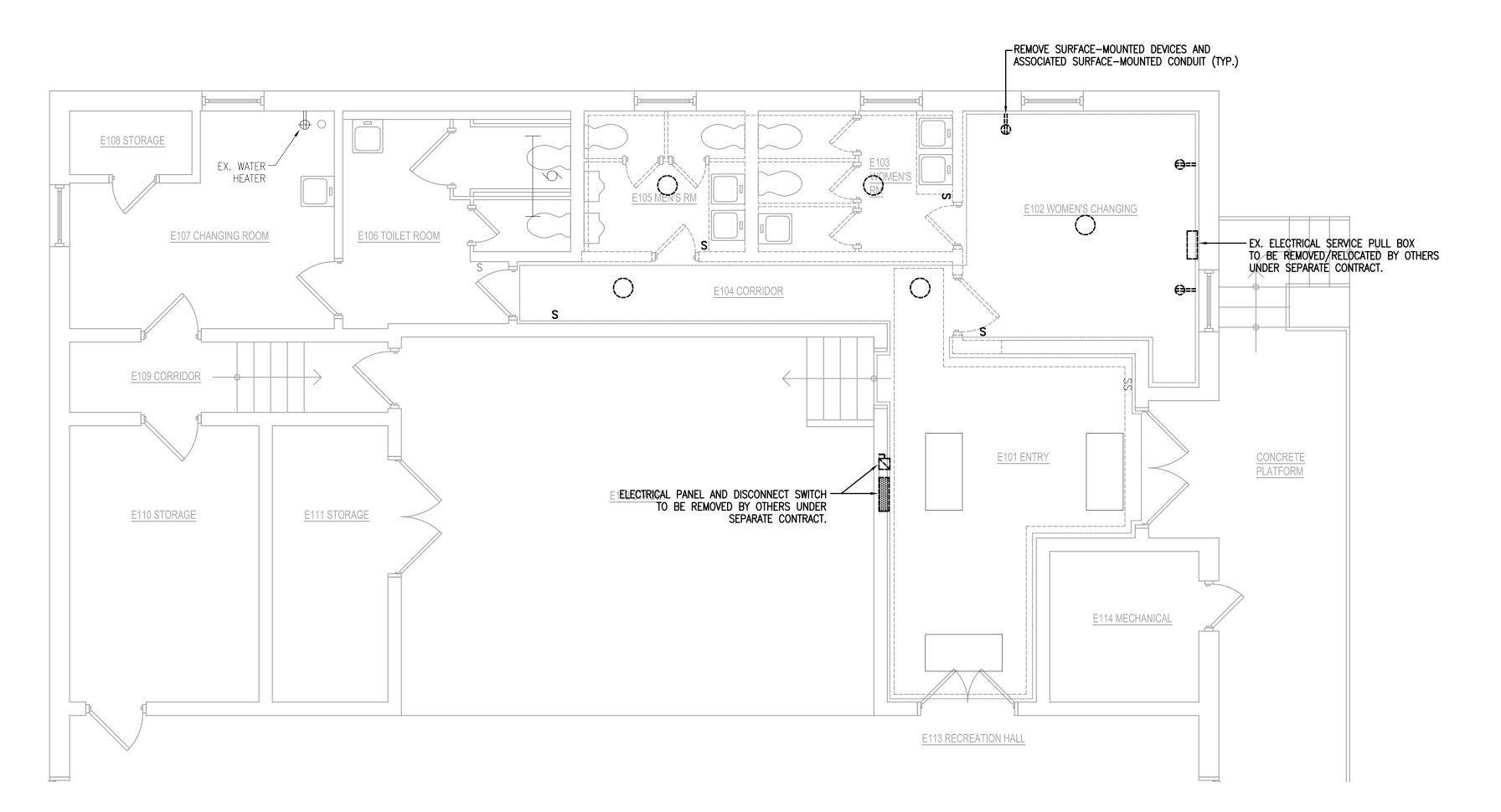
S REVIEW **OWNER**

09.16.19 OWNER REVIEW SET No. Issue Issued Issue Date For

Job Number: 19-035 Drawn By: CAD Checked By: THP

> ELECTRICAL **COVER SHEET**

PARTIAL GROUND FLOOR - NEW WORK PLAN 1/4" = 1' - 0"



NEW WORK NOTES:

- 1. FOR SYMBOLS AND ABBREVIATIONS, REFER TO DRAWING E-O.
- 2. COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS AND DETAILS. IN THE EVENT OF A DISCREPANCY, THE ARCHITECTURAL DRAWINGS TAKE PRECEDENT.
- 3. CENTER DEVICES VERTICALLY WHERE POSSIBLE. COORDINATE WITH ARCHITECTURAL ELEVATIONS, SECTIONS AND DETAILS.
- 4. SEE LUMINAIRE SCHEDULE ON DRAWING E-O FOR LIGHT FIXTURE SPECIFICATION.
- 5. FIRE ALARM SYSTEM IS NOT IN CONTRACT.



SPRINGFIELD TOWNSHIP Recreation Center

ADA TOILET ROOM
RENOVATIONS
Wyndmoor
Pennsylvania



planning research design

7913 Park Avenue Elkins Park, PA 19027 215.782.2228 Office 215.782.2226 Fax bauarchitecture.com



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DEMOLITION NOTES:

- 1. FOR SYMBOLS AND ABBREVIATIONS, REFER TO DRAWING E-O.
- 2. UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT AND WIRING SHOWN IN A LIGHT LINE WEIGHT IS EXISTING TO REMAIN.
- 3. UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT AND WIRING SHOWN IN A DARK, DASHED LINE WEIGHT IS TO BE REMOVED UNDER THIS CONTRACT.
- 4. DISCONNECT AND REMOVE ALL LIGHT FIXTURES, WIRING DEVICES, LINE— AND LOW—VOLTAGE WIRING, CONDUIT, AND ELECTRICAL ACCESSORIES FROM WALLS AND CEILINGS SCHEDULED FOR DEMOLITION.
- 5. REFER TO ADDITIONAL NOTES ON ARCHITECTURAL DRAWINGS.
- 6. REMOVE ALL EXISTING, ABANDONED VOICE/DATA, AND BRANCH CIRCUIT CABLING FROM THE PROJECT AREA.

This drawing is provided as an instrument of service by hpeGROUP, LLC to the Client. Use or reference of this drawing by any party (Owner, Contractor, Tenant, Design Professional, etc.) is conditioned by the following. hpeGROUP, LLC relied upon the accuracy of information provided by the Client and other parties to this project in preparation of this drawing. Drawings and specifications herein do not constitute a warranty of construction and/or system performance where operation and maintenance of a system has been negligent. All parties agree to hold hpeGROUP, LLC harmless for claims arising from negligent information provided, negligent construction, negligent operations or negligent

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1 09.16.19 OWNER REVIEW SET

No. Issue Issued Issue For

Job Number: 19-035

Drawn By: CAD Checked By: THP

Scale: AS NOTED

ELECTRICAL
PARTIAL GROUND
FLOOR PLANS
Drawing Title:

– 1

Drawing no

rawing no.:
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PARTIAL GROUND FLOOR - DEMOLITION PLAN

1/4" = 1' - 0"

GENE

IW	INDIRECT WASTE	@
	SANITARY	ABV
	VENT	AD AFF
	STORM	ahu ap
	ACID WASTE	AR AV
- $-$ AV $ -$	ACID VENT	AVG AW
LW	LAB WASTE	
— — LV — —	LAB VENT	BLDG BLW
—— PD ——	PUMPED DISCHARGE	BOP BOT
	COLD WATER	BTU/H
	HOT WATER	BV/BW
	HOT WATER RETURN	C CA
LCW	LABORATORY COLD WATER	CC CCA
——— LHW———	LABORATORY HOT WATER	CFM CI
LHWR	LABORATORY HOT WATER RETURN	CLG CO
PCW	PROCESS COLD WATER	COL
——— PHW———	PROCESS HOT WATER	CONC COND
PHWR	PROCESS HOT WATER RETURN	CONN CONT
—— TW ——	TEMPERED HOT WATER	CO2 CS
TWR	TEMPERED HOT WATER RETURN	CU FT
G	NATURAL GAS	CW CYL
—— DI ——	DEIONIZED WATER	(D)
RO	REVERSE OSMOSIS WATER	DI DIA
WFI	WATER FOR INJECTION	DN DS
02	OXYGEN	DW
—— ма ——	MEDICAL AIR	DWG
——— CA ———	COMPRESSED AIR	EEW EFF
CCA	CLEAN COMPRESSED AIR	ELEV EQUIP
—— IA ——	INSTRAMENT AIR	ESS
MV	MEDICAL VACUUM	(E)
sv	SURGICAL VACUUM	F FCO
VAC	LAB VACUUM	FD FS
—— НЕ ——	HELIUM	FLEX FP
	NITROGEN	1.1

GENERAL SYMBOLS

X X X CAPILLARY LINE TO INSTRUMENT

UNDERGROUND PIPING

HEAT TRACED LINE

E = ELECTRIC

S = STEAM

POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK.

—— N20—— NITROUS OXIDE

—— CO2—— CARBON DIOXIDE

POINT OF DEMOLITION BETWEEN EXISTING AND TO BE REMOVED WORK.

> Lab Sink MEDICAL AIR MAXIMIM MAX MILLION BTU'S PER HOUR MECH MECHANICAL MINIMUM MISCELLANEOUS MANUFACTURER MAN HOLE

ABBREVIATIO

ABOVE

ARGON

ACID VENT

ACID WASTE

BOTTOM OF PIPE

BIO VENT/BIO WASTE

COMPRESSED AIR

CONTAMINATED CONDENSATE

CARBON MONOXIDE OR CLEANOUT

CLEAN COMPRESSED AIR

CUBIC FEET PER MINUTE

BRITISH THERMAL UNIT PER HOUR

AVERAGE

BUILDING

BELOW

BOTTOM

COMMON

CAST IRON

CEILING

COLUMN

CONCRETE

CONDENSATE

CONNECTION

CONTINUES

CUP SINK

CYLINDER

DIAMTER

DRAWING

EFFICIENCY

EQUIPMENT

FLOOR CLEAN OUT

FIRE PROTECTION

FEET PER SECOND

GALLONS PER DAY

GALLONS PER HOUR

GALLONS PER MINUTE

FIXTURE UNIT

NATURAL GAS

HOSE BIBB

HYDROGEN

HORSEPOWER

HOT WATER

HOT WATER RETURN

INSTRAMENT AIR

INVERT ELEVATION

INDUSTRIAL VENT

INDUSTRIAL WASTE OR INDIRECT WASTE

HELIUM

HEIGHT

HEATER

KILOWATT

POUND

LENGTH

LABORATORY

LIQUID CO2

LIQUID NITROGEN

MEDICAL VACUUM

LIQUIFIED PETROLEUM GAS

LOCK OUT / TAG OUT

GALLON

GPD

FLOOR DRAIN FLOOR SINK

FLEXIBLE

EXISTING

DOWN SPOUT

DISTILLED WATER

EMERGENCY EYE WASH

ELVATOR OR ELEVATION

EMERGENCY SAFETY SHOWER

CUBIC FOOT

COLD WATER

CARBON DIOXIDE

DEIONIZED WATER

area drain

ABOVE FINISHED FLOOR

AIR HANDLING UNIT

ACCESS PANEL

<u> SNC</u>		
	(N) NC N2 NIC N2O NO NTS	NEW NORMALLY CLOSED NITROGEN NOT IN CONTRACT NITROUS OXIDE NORMALLY OPEN NOT TO SCALE
	O2 OSW OS&Y	OXYGEN OVERFLOW STORM WATER OUTSIDE SCREW & YOKE
	PCT PCW PH PRV PSI PUR PV PW	PERCENT PROCESS COLD WATER PHASE PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH PURIFIED WATER PROCESS VENT PROCESS WASTE
	RD REC RECIRC (R) RM RO ROR RPM RWC SAN SC SCH SEC SECT SF SFT SG SPEC SQ FT SOLV SSD STD ST STL STRUCT SW	ROOF DRAIN RECEIVER RECIRCULATING REMOVE & RELOCATE ROOM REVERSE OSMOSIS REVERSE OSMOSIS RETURN REVOLUTIONS PER MINUTE RAINWATER CONDUCTOR SHOCK ABSORBER SANITARY SAMPLE CONNECTION SCHEDULE SECOND SECTION SAFETY FACTOR SOFT WATER SPECIFIC GRAVITY SPECIFICATION SQUARE SQUARE FOOT SOLVENT SUB—SOIL DRAIN STANDARD STAINLESS STEEL STRUCTURE SUCTION SOFT WATER
	TEMP TOP T&P TP TYP	TEMPERATURE TOP OF PIPE TEMPERATURE AND PRESSURE TRAP PRIMER TYPICAL UNDERWRITER'S LABORATORY
	UM UTIL	MICRON UTILITY
	V V VAC VAR VIF VOL VTR	VENT VOLTS VACUUM (LABORATORY) VARIABLE VERIFY IN FIELD VOLUME VENT THROUGH ROOF
	W	WACTE

WASTE

WITH OUT

WATER FOR INJECTION

WATER FOR INJECTION AMBIENT

WATER FOR INJECTION COLD

WATER FOR INJECTION HOT

\/ \ | \ \ | C

VALVE:	<u>S</u>
⋈ 101	BALANCE VALVE
—— 	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
——————————————————————————————————————	GATE VALVE
$-\!$	GAUGE COCK
——\J_	GLOBE VALVE
── ₩	NEEDLE VALVE
	OUTSIDE SCREW & YOKE
OSY	OUTSIDE SCREW & YOKE (SUPERVISED
	PUMP DISCHARGE VALVE
	BACKFLOW PREVENTER WITH DRAIN
	DOUBLE CHECK ASSEMBLY
$ abla^{AV}$	AUTOMATIC AIR VENT
— MV	MANUAL AIR VENT
abla	VACUUM BREAKER
—— 	GAS COCK
F —	ANGLE VALVE
	TEMPERATURE/PRESSURE RELIEF VALVI
M ————————————————————————————————————	MOTOR OPERATED ACTUATOR
	SOLENOID ACTUATOR
??PSIG	BACK PRESSURE REGULATOR (SELF—CONTAINED)
??PSI	G DRESSURE REDUCING VALVE

PRESSURE REDUCING VALVE

(SELF-CONTAINED)

— UNION

TOP OUTLET TEE

PIPING SYMBOLS

PIPE DROP/PIPE RISE

QUICK CONNECT\DISCONNECT

STRAINER ("Y" TYPE) WITH BLOWDOWN

FLOOR DRAIN & SPEC REFERENCE

FLOOR SINK & SPEC REFERENCE

ROOF DRAIN & SPEC REFERENCE

BOTTOM OUTLET TEE

COMPRESSION FITTING

STRAINER ("Y" TYPE)

BASKET STRAINER

RUNNING TRAP

WALL HYDRANT

STANDING DRAIN

VENT THRU ROOF

EMERGENCY SHOWER

PUMP

ANCHOR

BALL JOINT

EXPANSION LOOP

PRESSURE SWITCH

PRESSURE GUAGE

SHOCK ABSORBER

O TD-? TRENCH DRAIN & SPEC REFERENCE

VENT THRU ROOF

VENT THRU WALL

---- PIPE SLEEVE

BRANCH TOP CONNECTION

BRANCH SIDE CONNECTION

DOUBLE CONTAINMENT PIPE

DIRECTION OF DOWNWARD SLOPE

ACCESS DOOR IN CEILING/WALL

BRANCH BOTTOM CONNECTION

THERMOMETER

AQUASTAT

TRAP PRIMER

------ GUIDE

FS

☐ PS

SLOPE _

∨TW I

EXPANSION JOINT

FLEXIBLE CONNECTOR

— FLOW SWITCH

HOSE BIBB

CLEAN OUT

FLEXIBLE HOSE

	PIPING
LVE	
	
/ALVE	
E	─
<	
Ξ	
/E	
REW & YOKE	
REW & YOKE (SUPERVISED)	 -
ARGE VALVE	
PREVENTER WITH DRAIN	
CCK ASSEMBLY	
AIR VENT	
VENT	
EAKER	—
	о──+ НВ
<u> </u>	o ── + wh
-	—-+> CO II——
	——+ə + o SD
E/PRESSURE RELIEF VALVE	O VTR
	☐ FD-?
	☐ FS-?
RATED ACTUATOR	O RD-?
CTUATOR	— ESS
	$-\!$
SURE REGULATOR	
A I N I L I V V	

UNION	1.	THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL PLUMBING CODE AND LOCAL PLUMBING INSPECTOR.
FLANGED CONN.\BLIND FLANGE	2.	ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
PIPE CAP		INCLUDING (BUT NOT LIMITED TO), ELECTRICAL, HVAC, SPRINKLER, PLUMBING, STRUCTURAL AND GENERAL ARCHITECTURE. CONTRACTOR SHALL PROVIDE ANY NECESSARY OFFSETS,
CONCENTRIC REDUCER		REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
ECCENTRIC REDUCER	3.	THESE PLANS ARE DIAGRAMMATIC, CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSET, TEES, ELBOWS, TRAP, STOPS ETC FOR A COMPLETE WORKING PLUMBING SYSTEM.
DIRECTION OF FLOW		THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS,

WALLS UNLESS NOTED OTHERWISE.

THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS 4. TAPS, ETC.

GENERAL NOTES

CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE

OWNER 48 HOURS IN ADVANCE. ALL UTILITY PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS, IN CASEWORK OR CONNECTED

6. TO FIXTURES, UNLESS NOTED OTHERWISE FOR THE FLOOR PLAN SHOWN. ALL WASTE PIPING SHOWN IS BELOW SLAB/WITHIN WALLS, IN CASEWORK, OR CONNECTED TO FIXTURES, UNLESS NOTED OTHERWISE. ALL VENT PIPING SHOWN IS ABOVE CEILING/WITHIN

ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY THE 2009 INTERNATIONAL PLUMBING CODE AND MANUFACTURER'S RECOMMENDATIONS.

ALL PIPING PENETRATIONS THRU NEW / EXISTING WALLS/ FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE NEW / EXISTING WALL OR FLOOR.

THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDER SLAB PLUMBING PIPING WITH ALL 10. STRUCTURAL FOUNDATIONS AND WITH SITE UTILITY ELEVATION INVERTS.

BACK FLOW PREVENTION DEVICES SHALL BE INSTALLED AS REQUIRED PER LOCAL AUTHORITY. THE ENTIRE DOMESTIC WATER SYSTEM (EXISTING/NEW) SHALL BE DISINFECTED AND TESTED IN

ACCORDANCE TO THE 2009 INTERNATIONAL PLUMBING CODE. PIPING SHALL NOT PASS THROUGH ELECTRICAL CLOSETS, COMMUNICATIONS CENTERS, AND

ELEVATOR SHAFTS. PROVIDE DRIP PANS AS REQUIRED FOR PIPING LOCATED IN ELECTRICAL 13. & TELE/DATA AREAS.

THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN THE DOCUMENTATION SHOWN ON THE PLANS & ACTUAL FIELD CONDITIONS.

EXACT SIZES, LOCATIONS AND ELEVATIONS OF ALL EXISTING PIPING SHALL BE VERIFIED IN FIELD PRIOR TO ANY PIPE INSTALLATION.

ALL HORIZONTAL SOIL, WASTE & STORM PIPING 3" & UNDER SHALL SLOPED @1/4"/FT. ALL HORIZONTAL SOIL, WASTE & STORM PIPING 4" & ABOVE SHALL BE SLOPED @1/8"/FT 16. UNLESS OTHERWISE NOTED.

DEMOLITION NOTES

- EXISTING WORK WHICH IS TO BE DEMOLISHED IS SHOWN HATCHED. ALL OTHER WORK SHOWN IS EXISTING-TO-REMAIN.
- REMOVE EXISTING EQUIPMENT, FIXTURES AND PIPING TO THE EXTENT INDICATED, AND DISPOSE OF IT OFF-SITE IN A SAFE AND LEGAL MANNER WHERE SUCH WORK IS INDICATED TO BE "DEMOLISHED."
- 3 THE PURPOSE OF DEMOLITION DRAWINGS IS TO INDICATE THE SCOPE OF THE DEMOLITION WORK TO PERMIT THE INSTALLATION OF NEW WORK INDICATED ON SUBSEQUENT PLANS. COORDINATE ACTUAL DEMOLITION WORK WITH BOTH THE NEW WORK INDICATED AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED.
- 4. ANY SHUTDOWNS OF EXISTING PLUMBING SYSTEMS SHALL BE BRIEF AND OCCUR WHEN USAGE IS NONEXISTENT OR VERY LIGHT, OR METHODS SHALL BE EMPLOYED WHICH PERMIT SYSTEMS TO STAY IN OPERATION AVOIDING SHUTDOWNS ALTOGETHER. THE OWNER SHALL DETERMINE WHEN AND IF AN EXISTING MECHANICAL SYSTEM MAY BE SHUT DOWN.
- ALL EQUIPMENT INDICATED TO BE DEMOLISHED SHALL FIRST BE OFFERED TO THE OWNER FOR HIS RETENTION. THE SCOPE OF DEMOLITION WORK, HOWEVER, SHALL INCLUDE THE DISPOSAL OF ALL DEMOLISHED EQUIPMENT OFF-SITE IN A SAFE AND LEGAL MANNER, REGARDLESS OF WHETHER THE OWNER EVENTUALLY DECIDES TO RETAIN ANY EQUIPMENT.
- 6. PIPING WHICH SERVES OTHER AREAS, ENTERING AND PASSING THROUGH THE AREA WHERE DEMOLITION WORK IS INDICATED, SHALL REMAIN.
- 7. CAP ANY EQUIPMENT, DUCTWORK OR PIPING ABANDONED-IN-PLACE AIR/WATER TIGHT.
- UNLESS NOTED OTHERWISE, PIPING INDICATED TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THE NEAREST ACTIVE MAIN. THE MAIN, OR OTHER TERMINATION POINT, SHALL BE CAPPED AIR/WATER TIGHT. PIPING WITHIN WALLS, WHICH IS TO REMAIN WITHIN THE WALLS, SHALL BE CAPPED FAR ENOUGH INSIDE THE WALL TO ALLOW FOR PATCHING AND FINISHING OF THE WALL.
- WHERE EXISTING CEILINGS REMAIN, CAREFULLY REMOVE AND REINSTALL EXISTING CEILING TILES, AS REQUIRED, IN ORDER TO GAIN ACCESS TO DEMOLITION WORK.
- 10. REFER TO AND COORDINATE PLUMBING DEMOLITION WORK WITH THAT OF OTHER DISCIPLINES AS SHOWN ON ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DEMOLITION
- 11. IF ANY MATERIAL IS UNCOVERED WHICH THE CONTRACTOR, SUBCONTRACTOR OR TRADESMAN SUSPECTS TO BE ASBESTOS, THEN WORK IN THE AREA SHALL CEASE UNTIL THE OWNER'S REPRESENTATIVE IS CONTACTED FOR A DETERMINATION OF WHETHER THE MATERIAL IS SAFE, SHOULD BE TESTED, OR SHOULD BE REMOVED.
- 12. CAP THE OPEN END OF EXISTING—TO—REMAIN PIPING AND EQUIPMENT IMMEDIATLY AFTER OPENING PIPE/EQUIPMENT CONNECTIONS TO PREVENT DEBRIS FROM CONTAMINATING EXISITING-TO-REMAIN ITEMS.

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09.16.19 OWNER REVIEW SET

Springfield Township

MONTGOMERY COUNTY

SPRINGFIELD

TOWNSHIP

Recreation Center

ADA TOILET ROOM

RENOVATIONS

Wyndmoor

Pennsylvania

architecture

planning

research

design

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relied upon the accuracy of information provided

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by the Client and other parties to this project in

preparation of this drawing. Drawings and

of construction and/or system performance

where operation and maintenance of a system

has been negligent. All parties agree to hold

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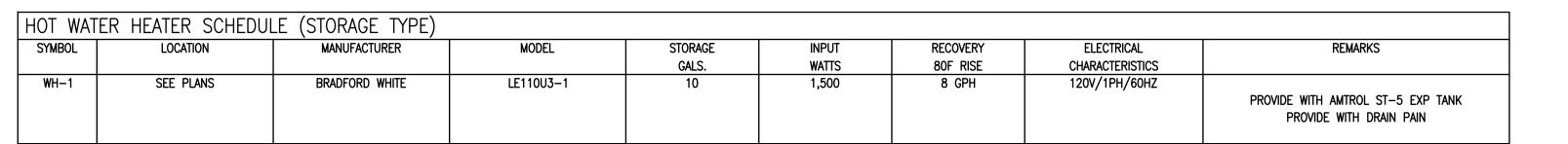
Drawn By: CAD Checked By: THP Scale: AS NOTED

> PLUMBING **COVER SHEET**

Drawing Title:

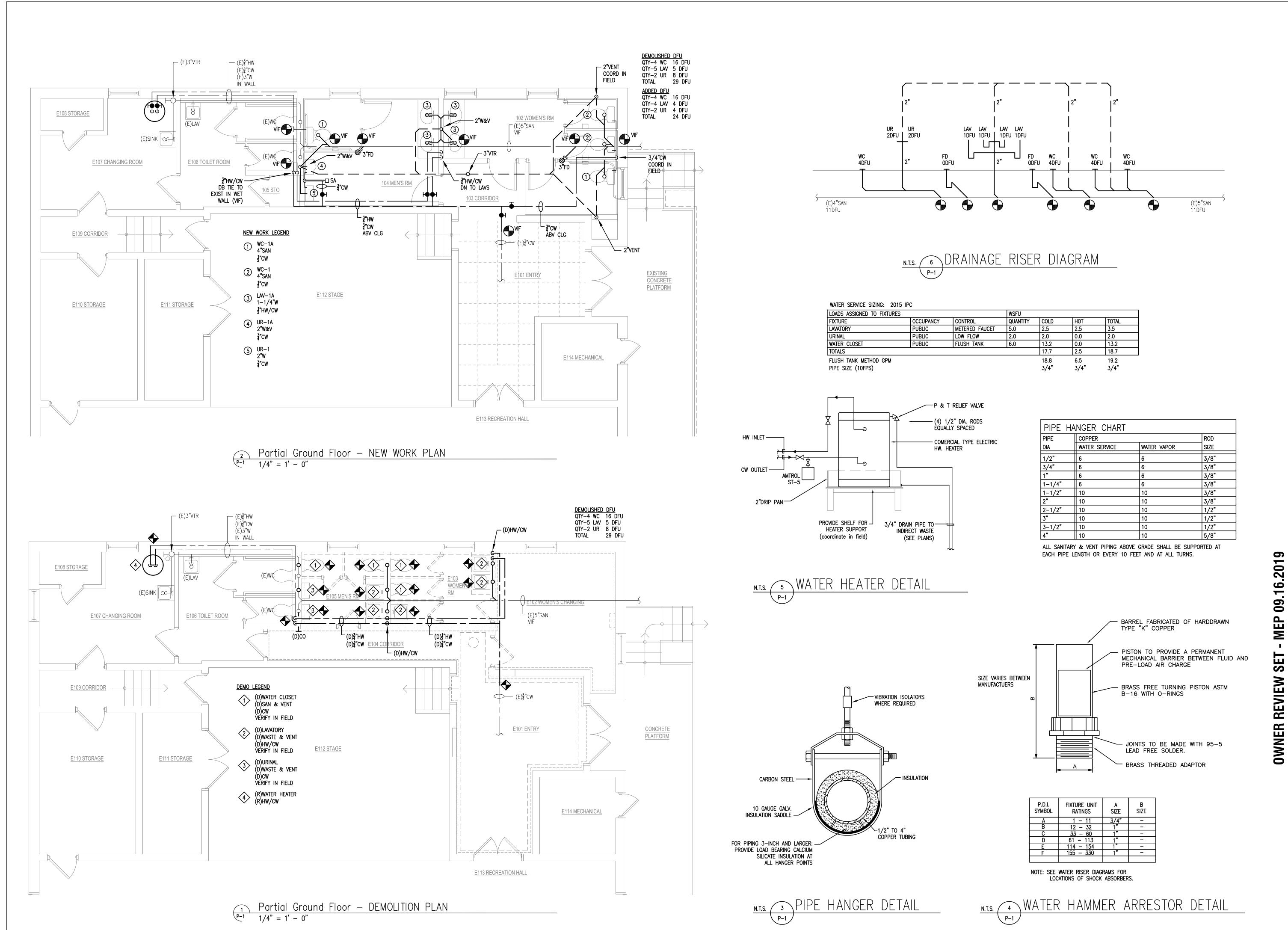
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TAG NO.	FIXTURE	DESCRIPTION	CW	HW	DRAIN	SPECIFICATIONS
WC-1	WATER CLOSET	BOTTOM OUTLET FLOOR MOUNTED	1/2"	-	4"	ZURN Z5552, ELONGATED BOWL, VITREOUS CHINA OLSONITE #95 SEAT, 12" ROUGH IN, FLEXIBLE WALL SUPPLY WITH FLANGE AND LOOSE KEY STOP 1.6 GAL TANK.
WC-1A	WATER CLOSET ADA	BOTTOM OUTLET FLOOR MOUNTED	1/2"	-	4"	ZURN Z5551, ELONGATED BOWL, VITREOUS CHINA, 16-1/2" HIGH, OLSONITE #95 SEAT, 12" ROUGH IN, FLEXIBLE WALL SUPPLY WITH FLANGE AND LOOSE KEY STOP 1.6 GAL TANK.
UR-1	URINAL	WALL HUNG	1"	-	2"	ZURN Z5755-U, VITREOUS CHINA, FLUSHING RIM FLUSH VALVE: ZURN ZTR6203-ULF-LL, 0.125 GPF, BATTERY OPERATED TYPE 6501.010 WALL HANGERS AND OUTLET CONNECTION
UR-1A	URINAL ADA	WALL HUNG	1"	-	2"	SAME AS UR-1 WITH 16-INCH MOUNTING
LAV-1A	LAVATORY ADA	UNDER MOUNT	1/2"	1/2"	1-1/4"	ZURN Z5220 UNDERMOUNT TYPE LAVATORY, VITREOUS CHINA CAST GRID DRAIN, 1–1/4" TAIL PIECE, P-TRAP, FLEXIBLE SUPPLIES WITH WALL FLANGES AND LOOSE KEY STOPS. DELTA 541-WF SINGLE HANDLE COMMERCIAL TYPE FAUCET WITH 0.5 GPM FLOW RESTRICTER BELOW DECK THERMOSTATIC MIXING VALVE (110F MAX SET POINT) - LEONARD LF 170 SERIES



BASE SCOPE TO INCLUDE RELOATION OF EXISTING WATER HEATER, PROVIDION OF NEW EXPANTION TANK AND DRAIN PAN

ADD ALTERNATE SCOPE TO INCLIDE REPLACEMENT OF WATER HEATER WITH 10 GAL 1.5kW UNIT





SPRINGFIELD TOWNSHIP Recreation Center

ADA TOILET ROOM
RENOVATIONS
Wyndmoor
Pennsylvania



planning research design

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No. Issue Issued For

Job Number: 19-035

Drawn By: CAD Checked By: THP

Scale: AS NOTED

PLUMBING PARTIAL GROUND FLOOR PLAN

Drawing Title:

P-1

Drawing no.:

PLUMBING SPECIFICATION

Codes and Standards

The following codes and standards shall be followed for all work and intent in this project:

1 2015 International Plumbing Code

General Requirements

- 1 Consider drawings and specifications as supplementing each other. Perform or furnish work specified but not shown, or shown but not specified, as though mentioned in both specifications
- Provide minor items, accessories or devices as necessary for completion and proper operation of systems whether or not they are specifically called for by specifications or drawings.
- Work includes providing all labor, material, equipment and service necessary and reasonably incidental to proper completion of all systems as shown on drawings and as specified. Providemeans to furnish and install complete and in place; word "Furnish" means to furnish at site of work unless otherwise stated.
- 4 Coordinate work and equipment of mechanical trades with work and equipment specified elsewhere to assure complete and satisfactory installation. Perform work such as excavation, backfill. concrete, flashing, etc., required under Division 15 in accordance with requirements of applicable division of specifications.
- Repair damage to work installed under Division 15 or to work of others, caused by neglect on the part of the Division 15 Contractor at own expense and to satisfaction of Engineer.
- 6 Drawings are diagrammatic and indicate arrangements and approximate sizes and relative locations of principle apparatus, equipment, devices and services to be provided
- Layout of equipment indicated on drawings shall be checked and compared against all drawings and specifications of all trades and exact locations determined using approved shop drawings of such equipment. Where physical interference occur, consult with Engineer and prepare dated, dimensioned drawings correcting such interferences. Submit to engineer for review of such drawings and distribute same as required.
- Work shall be guaranteed to be free from leaks or defects. Defective materials, workmanship and damage to work of all Divisions resulting from same shall be replaced or repaired as directed for duration of stipulated guaranteed periods. Duration of guarantee following date of beneficial use of systems shall be one year, unless specified otherwise.
- Except when otherwise shown on the contract drawings or specified, terminate vents passing through roof 24 inches above roof.
- Where devices, such as valves, dampers, traps, junction boxes, etc., are concealed in construction or behind wall or ceiling surface, and where access panels are not indicated on drawings, furnish access panel of adequate size to permit service or adjustment of such concealed device, but in no case shall panel be less than 12"x12".
- After completion of work, check record drawings maintained at construction site for completeness and accuracy. Transfer information on record drawings to original of project drawing, recheck information and sign drawings, certifying that drawings accurately reflect "as-built" condition. Deliver complete set of as-built drawings to the Owner
- Prepare complete maintenance manuals outlining recommended maintenance, together with, for example, type oil, frequency of inspection, belt tension adjustment, belt part numbers, as recommended by manufacturer of equipment.
- 13 Instruct Owner's representatives during regular workday in operation of each mechanical system for for total of 8 hours.
- 14 Contractor shall notify and obtain approval from Engineer regarding any deviations from drawings and/or specifications prior to commencement of work.
- Any product designed for dispensing potable water shall meet both the NSF 61 and NSF 372 test standards for Lead Free via third—party testing and submittal provided with certification listing. (Includes ALL products attached to domestic water systems).

Submittals

- Submit fixture, piping, valve, insulation, and equipment cuts for all items included in specification and that apply to project to engineer
- a All lead free product submittals shall include third—party testing certification. 2 Engineer will not review submittals that do not bear Contractor's approval stamp and will return them
- without action. Allow for 10 business days in construction schedule for each submittal review.
- Substitution of non-compliant or non-equal products is not permitted.

General Plumbing

- 1 All work shall meet or exceed the latest requirements of all national, state, county, municipal and other authorities exercising jurisdiction over construction work at the project
- Installation procedures, methods, and conditions shall comply with the latest requirements of the
- Federal Occupational Safety and Health Act (OSHA). The Contractor shall be responsible for the installation and filing until the installation has been
- approved by the authorities having such jurisdiction.
- 4 Certification shall be submitted attesting that specified performance criteria have been met by all sections of the plumbing systems and equipment.

- Delivery, Storage, and Handling:
- a Factory apply plastic end-caps for all piping, except for hub-and-spigot and clay pipes. Maintain end-caps in place until pipe is installed.
- b Store pipe and fittings inside for protection from moisture and dirt, or with weatherproof packaging.
- 2 Domestic Hot and Cold Water Piping:
- a Above Ground Pipe: Copper tubing, Type L, drawn temper, conforming to ASTM B 88.
- b Fittings: Wrought copper, solder joint (using only lead free compliant solder), conforming to ANSI B16.22.
- 3 Sanitary Drain and Vent Pipe:
- a Polyvinyl chlorine (PVC) Schedule 40 DWV solid wall type pipe and fittings conforming to ASTM D 2665 suitable for solvent cement joints. (Approved for non-plenum areas). Cellular core is not allowed.
- 4 Installation:
- a Unless shown otherwise, route piping in the most direct manner, parallel to building lines.
- b Locate piping to maintain clearance around equipment, and minimum piping headroom of 7 feet, except where otherwise shown.
- c Close open ends of piping and equipment, when not being worked on, with flange covers, caps or plugs.
- d Do not use pipes smaller than 1/2 inch, unless otherwise documented e Provide valved vents at all high points of water piping, and valved drains at all low points of water piping
- for draining and flushing. Locations shall be determined by the Contractor.
- f Provide escutcheons at all locations where piping, installed exposed to view, penetrates walls, partitions, floors and ceilings.
- q Pipes shall not be installed in transformer vaults, electrical equipment rooms, elevator machine rooms or similar areas containing electrical equipment. Pipes shall not be installed over, around, in front of, in in back of, or directly below, electrical controls, panels, terminals, boxes, or similar equipment. Provide drip pans over electrical equipment (at no cost to the Owner) only after approval by the Owner.
- 5 Testing and Cleaning of Systems:
- a Before testing, complete the installation of each pipe line, including final supports, hangers and anchors, insulation and painting. Clean piping and equipment of metal cuttings and foreign matter as they are and in accordance with all applicable codes and standards.

- b Test: Domestic Water Systems; 165 psi; 30 minutes
- c Test: Sanitary and Storm Water System; Static Fill No Leakage; 30 minutes
- d Flushing: Flush clean with new potable water and drained at all low points. Connected equipment
- (coils, etc.) shall be isolated and flushed individually with a hose. e Sterilization: Fill piping system inside building, beginning at point of main shutoff valve, with solution
- 100 ppm of available chlorine. Retain solution in systems for not less than 4 hours, during which time all valves and faucets shall be opened for flushing, until chlorine is no longer detected. Drain system.
- f After sterilization, flush solution from system with clean drinking water until residual chlorine content is not greater than 1.0 ppm at extreme end of system.

- Domestic Water Valves (Nibco, Milwaukee, Watts, Apollo):
- a Shut-Off Valves 2 inches and Smaller: Lead free ball valves Class 600, two piece design, bronze body, chrome plated ball, reinforced Teflon seats, blowout proof stem, threaded ends.
- General: a Do not install valves with stem down.
- b Discharge lines from relief valves shall be piped to within 4" of floor and extend to floor drains wherever floors are not pitched to drains.

- a Provide hangers and supports manufactured by B-Line, Elcen Metal Products or Grinnell, unless otherwise specified.
- b Except as otherwise indicated, provide factory—fabricated piping hangers, supports, riser clamps, rod attachments, building attachments, shields and saddles, of the following MSS types listed, to suit
- c Select and apply supports in accordance with MSS SP-69 and manufacturer's published product
- d Select size of hangers and supports to fit pipe size for bare piping, and to fit around piping insulation with saddle or shield for insulated piping.
- e Provide plastic coated or copper-plated hangers and supports for copper-pipina systems.
- a Horizontal Pipe Hangers: Adjustable Steel Clevis Hangers: MSS Type 1; Adjustable Steel Band Hangers: MSS Type 7;
- a Install pipe hangers, supports, clamps, and attachments to support piping properly from building structure, and complying with MSS SP-69, SP-89, and enforced plumbing code. Do not use wire or perforated metal to support piping, and do not support piping from other piping.
- b Arrange for grouping of parallel runs of horizontal piping to be supported together on trapeze type hangers where possible.
- c Install additional building attachments where support is required for additional concentrated loads,
- including valves, flanges, guides, strainers, expansion joints, and at changes in direction of piping. d Install hangers and supports complete with necessary inserts, bolts, rods, nuts, washers and other
- e Install hangers and supports to allow controlled movement of piping systems and to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops,
- expansion bends and similar units, if provided. f Provide a support not over one foot from each change in direction pipe fitting joint and not over five feet from a valve.

Pipe Identification

- 1 Letter and number all mechanical equipment shown on the Contract Drawings identifying the equipment number and service. Nameplates shall be .020" thick aluminum with permanent 1/2-inch high white letters on a black background, mechanically affixed or pressure—sensitive adhered and installed in a readily visible location on the equipment. Coordinate the final equipment designations with the Owner.
- Identify all piping, exposed and accessible, after piping has been tested, insulated or painted. Identify all valves with a tag. Permanently stamp and mark valve tags with a service designation, normal
- valve position, and an identifying number as large as possible. Each valve shall have a unique number coordinated with the service designations shown on the contract drawings.

Pipe Penetrations and Sleeves

- a For all penetrations, provide pipe sleeve 2 pipe diameters larger than passing pipe. b Hiliti, 3M, approved manufacturers
- 2 Non-Fire Rated Construction:
- a Provide mineral fireproofing filler material in thicknesses required for each pipe sleeve.
- b Provide closed-cell polyethylene foam or open-cell polyurethane foam backup strip for filler material. c Provide butyl elastomer or epoxidized polyurethane terpolymer flexible vapor barrier sealant for
- sealing both ends of pipe sleeve.
- 3 Fire Rated Construction:
- a All pipe penetration seal systems shall be UL approved and approved by the local authority having iurisdiction for the application.
- b Provide smoke—tight and fire—tight seal using an intumescent elastomeric material in putty or caulk form. c Remove insulation from piping at the portion of the pipe passing through the sleeve.

Insulation

- Approved Manufacturers:
- a Elastomeric Insulation: Armstrong, Rubatex.
- Elastomeric Insulation: Flexible, tubular, self-seal, conforming to ASTM C 177 or C 518 with thermal conductivity of 0.27 at 75°F. Manufacturer: Armstrong, Armaflex 2000 — for piping up to 2" dia. Installed inside the building.
- 3 Execution:
- a Apply insulation on clean, dry surfaces after leakage and other tests have been completed. b For Domestic Cold and Hot Water Systems provide 1/2-inch elastomeric insulation.
- c Seal and tape all joints and valve bodies.

Plumbing Specialties

- 1 Shock Absorbers Mark S.A.: J. R. Smith No. 5000 Series all stainless steel designed to last life of piping. Type A - No. 5005, Type B - No. 5010, Type C - No. 5020, Type D - No. 5030; or Precision Plumbing Products Inc., "SC" series, piston operated, Type K copper barrel with brass threaded adaptor designed to last life of piping. Type A - SC-500, Type B - SC-750, Type C - SC-100, Type D - SC-1200.
- a Provide manufactured compression units, of stainless steel, on both domestic cold and hot water lines Install in upright position at all quick-closing valves and solenoids. Locate and size in accordance with Plumbing and Drainage Institute Standards, Product shall carry NSF-61 certification for Lead Free.

Drains: J.R. Smith models as indicated below.

Floor Drain - Mark FD: (At public toilet rooms) J. R. Smith 2005-AP, duco cast iron body and flashing collar and nickel bronze adjustable strainer head strainer head with secured 6" diameter strainer. Bottom outlet and mechanical trap ayard (Sure Seal or eayal).

Cleanouts and Plates: J. R. Smith models as indicated below.

Approved installation types:

- a Finished Floor: J. R. Smith 4028, duco cast iron body and frame, with round adjustable scoriated
- secured nickel bronze top, taper thread bronze plug. b Finished Floor: (Composition or Ceramic Tile and Terrazzo): J. R. Smith 4188, cast iron body and
- frame, with round adjustable recessed (for floor material), nickel bronze top, taper thread bronze plua.
- c Concrete Floor: J. R. Smith 4228, duco cast iron body and frame, with round adjustable scoriated secured cast iron top, taper thread bronze plua.
- d Finished Walls: J. R. Smith 4533 or 4558 cast iron cleanout tee with taper thread bronze plug, and square chrome plate frame and cover.

a Provide cleanouts on all drainage piping at 50 ft. intervals on lines up to 4" and 100" apart on lines over 4" in diameter at each change in direction of 45 degrees or more, at each additional location shown on the drawings; cleanouts shall be full size for pipes up to 4" and not less than 4" for larger pipes.

Water Heaters

- General: Provide water heaters as indicated on the schedules
- Acceptable Manufacturers: A.O. Smith Corp., State Water Heaters, Bradford White

Execution:

- a Install water heaters in accordance with manufacturer's installation instructions. Install units plumb and
- level, firmly anchored in locations indicated, and maintain manufacturer's recommended clearances. b Place units on drain pan where shown on drawings, orient so controls and devices needing service and maintenance have adequate access.
- c Electrical Wiring: Install electrical devices furnished by manufacturer but not specified to be

factory-mounted. d Drains: Provide water heater drains per manufacturer requirements and route to approved location.

Fixtures

- a All fixtures shall be White unless noted otherwise. Exposed metal shall be chromium?plated over
- nickel plating on copper or brass. White metal trim will not be accepted.
- b Vitreous China: American Standard, Kohler, Zurn or as approved equal.
- c Faucets: Delta, Chicago, Sloan, Kohler or as approved equal.
- d Fixtures shall be free from imperfections, true as to line, angles, curves, and color; smooth, watertight and practically noiseless in operation.
- e All fittings, escutcheons, faucets, traps, exposed piping, etc., shall be brass, chrome plated over nickel plate with satin finish. Any hanger nuts visible shall likewise be chrome plated over nickel plate
- f Before roughing work is started, submit to the Architect complete figured drawings and cuts of each and all of the plumbing fixtures, fittings, trimmings, etc., and secure approval before proceeding with the installation of any work.
- a Provide all hangers, supports, brackets, etc., for the proper installation of all fixtures requiring support. Such supports shall be in accordance with the recommendations of the manufacturers of the fixtures, and if built into partitions or wall shall be set as the wall progresses
- h All fixtures shall have the standard recommended mounting heights indicated by the fixture

manufacturer or as required by the Architectural plans and details.

i All fixtures shall carry NSF-372 certification for Lead Free.

End of Specifications



SPRINGFIELD TOWNSHIP Recreation Center

ADA TOILET ROOM RENOVATIONS

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