

GARDEN CITY PUBLIC SCHOOLS

High School Toilet Renovations

GARDEN CITY, MI
PROJECT NO. 2019-069

JANUARY 21, 2020 BIDS



architects planners interiors

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ROOM FINISH SCHEDULE

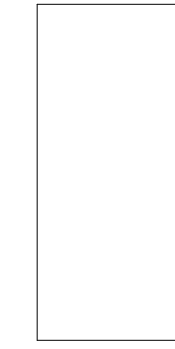
RM. NO.	ROOM NAME	FLOOR		BASE		WALLS								DOOR FRAME	CEILING			MILLWORK/ CASEWORK			REMARKS
		MAT.	FINISH	MAT.	FINISH	NORTH		EAST		SOUTH		WEST			MAT.	FINISH	HGT.	M/C	FINISH		
						MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH								
201	MENS	EPOXY	CUSTOM	-	-	PT	PT1	PT	PT1	PT	PT1	PT	PT1	PTD	GYP	P11F-W	EXIST	-	-	-	
202	CHASE	EX	-	EX	-	EX	-	EX	-	EX	-	EX	-	EX	-	-	-	-	-	-	
203	JC	EX	-	EX	-	EX	-	EX	-	EX	-	EX	-	EX	-	-	-	-	-	-	
204	STORAGE	EX	-	EX	-	EX	-	EX	-	EX	-	EX	-	EX	-	-	-	-	-	-	
205	WOMENS	EPOXY	CUSTOM	-	-	PT	PT1	PT	PT1	PT	PT1	PT	PT1	PTD	GYP	P11F-W	EXIST	-	-	-	

ROOM FINISH SCHEDULE ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE	PLAM	PLASTIC LAMINATE	EXIST	EXISTING	SS	STAINLESS STEEL
ANOD	ANODIZED	PLAS	VENEER PLASTER	EXPO	EXPOSED	SJM	SOLID SURFACE MATERIAL
B	CMU	PT	PORCELAIN TILE	GL	GLASS	SP	SPLIT FACE CMU
BRICK	BRICK	PTD	PAINTED	GCMU	GLAZED CMU	SPI	SPORTS IMPACT
CMU	CONCRETE MASONRY UNIT	QT	QUARRY TILE	GYP	GYPSUM BOARD	SV	SHEET VINYL
CONC	CONCRETE	RBF	RUBBER TILE	LMC	LINEAR METAL CEILING	TER	TERRAZZO
CPL	CEMENT PLASTER	RB	RESILIENT WALL BASE	MP	METAL PANEL	VCT	VINYL COMPOSITION TILE
CPT	CARPET	SAAC	SPRAY-APPLIED ACOUSTICAL COATING	NSF	NON-SLIP FINISH	WP	WATERPROOF
CT	CERAMIC TILE	SEAL	CONCRETE SEALER	PARTN	MOVEABLE PARTITION		

MATERIAL AND COLOR SCHEDULE

	KEY	MANUFACTURER	STYLE	COLOR	SPECS	NOTES
EPOXY CHIPS	CP1	COLOR FLAKES	FLECK CHIP	C992 NAVY BLUE	30%	1/4" FLAKE SIZE
	CP2	COLOR FLAKES	FLECK CHIP	C995 WHITE	30%	1/4" FLAKE SIZE
	CP3	COLOR FLAKES	FLECK CHIP	C6606 LIGHT GRAY	30%	1/8" FLAKE SIZE
	CP4	COLOR FLAKES	FLECK CHIP	C2160 MEDIUM ORANGE	10%	1/16" FLAKE SIZE
WALLS	PT1	AMERICAN OLEAN	RAPPORT	CORDIAL GRAY	12" X 24" X 3/8" RECTIFIED	
PAINT	P1E-A	SHERWIN WILLIAMS	SEMI-GLOSS	WORDLY GRAY	SW 7043	FIELD
	P1SG-A	SHERWIN WILLIAMS	SEMI-GLOSS	URBANE BRONZE	SW 7048	DOOR FRAMES
	P11F-W	SHERWIN WILLIAMS	FLAT	PRO MAR 200		CEILINGS
SOLID SURFACE	SS1	CORIAN	SOLID SURFACE	SILVER GRAY	1/2" THICK	TOP



(F)

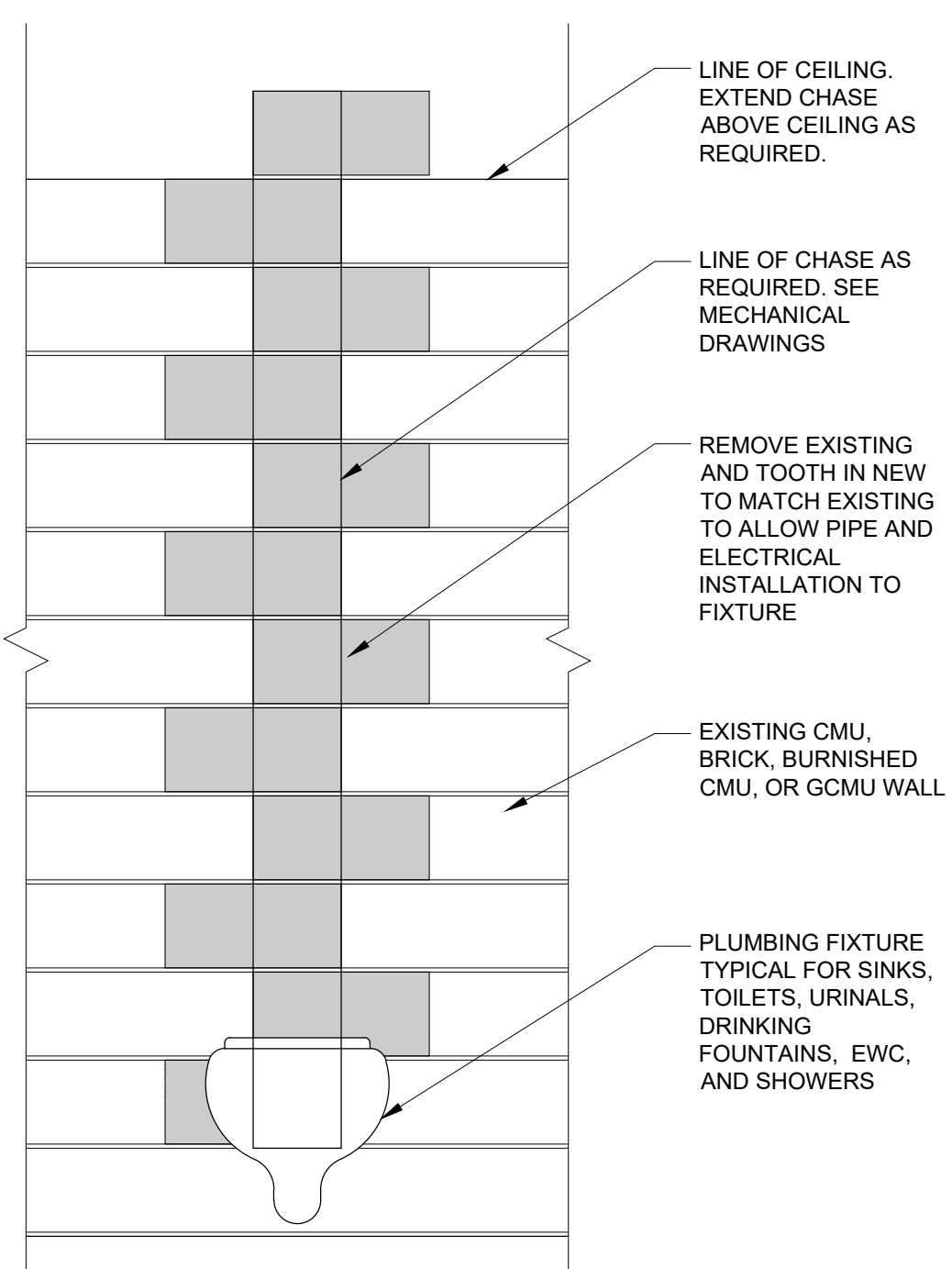
DOOR TYPES

DEMOLITION GENERAL NOTES

- REFER TO PROJECT SPECIFICATION MANUAL FOR DEMOLITION CRITERIA BEFORE REMOVING ANY ITEMS.
- REMOVE AND REPLACE EXISTING CONSTRUCTION AS REQUIRED FOR THE EXECUTION OF NEW WORK.
- PROTECT EXISTING CONSTRUCTION TO REMAIN AS REQUIRED DURING DEMOLITION.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS AND FOR COORDINATION OF WORK.
- DISCONNECT ALL MISCELLANEOUS FEATURES (I.E. ELECTRICAL, MECHANICAL, PLUMBING, ETC.) ASSOCIATED WITH ITEMS TO BE DEMOLISHED (I.E. PARTITIONS, WALLS, CEILINGS, CABINETS ETC.).
- REMOVAL OF ANY MECHANICAL, ELECTRICAL AND MISCELLANEOUS ITEMS WILL REQUIRE PATCH AND REPAIR OF ADJACENT MATERIALS TO REMAIN.
- REMOVE EXISTING UNUSED NAILS, SCREWS AND OTHER WALL PROTRUSIONS FROM EXISTING SURFACES TO REMAIN. PATCH AND REPAIR TO MATCH EXISTING ADJACENT SURFACES AS REQUIRED TO RECEIVE NEW FINISHES.
- PATCH AND REPAIR ALL SURFACES TO REMAIN TO MATCH EXISTING ADJACENT SURFACES AS REQUIRED TO RECEIVE NEW FINISHES - SEE ROOM FINISH SCHEDULE.
- CONTRACTOR SHALL PLACE ANY ITEMS OR MATERIALS TO BE RETAINED AS DIRECTED BY OWNER.

DEMOLITION PLAN KEY NOTES

- 9A REMOVE EXISTING HARD CEILING AND ACCESS PANEL. PATCH AND REPAIR ALL SURFACES TO REMAIN AS REQUIRED TO RECEIVE NEW FINISHES.
- 10A REMOVE MISCELLANEOUS BATHROOM ACCESSORIES. PATCH AND REPAIR ALL SURFACES TO REMAIN AS REQUIRED TO RECEIVE NEW FINISHES.
- 10B REMOVE EXISTING TOILET PARTITIONS. PATCH AND REPAIR ALL SURFACES TO REMAIN AS REQUIRED TO RECEIVE NEW FINISHES.
- 15A COORDINATE REMOVAL OF EXISTING PLUMBING AND FIXTURES WITH MECHANICAL. PATCH AND REPAIR ALL SURFACES TO REMAIN AS REQUIRED TO RECEIVE NEW FINISHES.
- 16A COORDINATE REMOVAL OF EXISTING LIGHT FIXTURES AND MISCELLANEOUS ELECTRICAL POWER, ETC. WITH ELECTRICAL DRAWINGS. PATCH AND REPAIR ALL SURFACES TO REMAIN AS REQUIRED TO RECEIVE NEW FINISHES.



TYPICAL PLUMBING FIXTURE INSTALLATION IN EXISTING WALL
SCALE: 1/2" = 1'-0"

DOOR FINISH SCHEDULE

DOOR NO.	DOOR SIZE	DOOR				FRAME				H.W. NO.	MIN./ LABEL	LINTEL MAT.	REMARKS
		TYPE	MAT.	FIN.		TYPE	MAT.	FIN.	HEAD *				
201	2'-8" x 7'-0"	EX	EX	EX	EX	PTD	EX	EX	EX	EX	EX	EX	1
202	1'-4" x 7'-0"	EX	EX	EX	EX	PTD	EX	EX	EX	EX	EX	EX	-
203	2'-0" x 7'-0"	EX	EX	EX	EX	PTD	EX	EX	EX	EX	EX	EX	1
204	2'-0" x 7'-0"	EX	EX	EX	EX	PTD	EX	EX	EX	EX	EX	EX	1
205	2'-8" x 7'-0"	EX	EX	EX	EX	PTD	EX	EX	EX	EX	EX	EX	1

DOOR SCHEDULE ABBREVIATIONS

AL	ALUMINUM	LGF	LIGHT GAUGE FRAMING	PTD	PAINTED
ANOD	ANODIZED	ML	MASONRY LINTEL	SIM	SIMILAR
EXIST	EXISTING	MSF	METAL STUD FRAMING	SS	STAINLESS STEEL
GL	GLASS	PC	PRECAST CONCRETE	STL	STEEL
HM	HOLLOW METAL	PLAM	PLASTIC LAMINATE	TS	TUBE STEEL
LGF	LIGHT GAUGE FRAMING	PREF	PREFINISHED	WD	WOOD

DOOR SCHEDULE REMARKS

- PAINING TO INCLUDE BOTH SIDES OF FRAME.

EQUIPMENT SCHEDULE

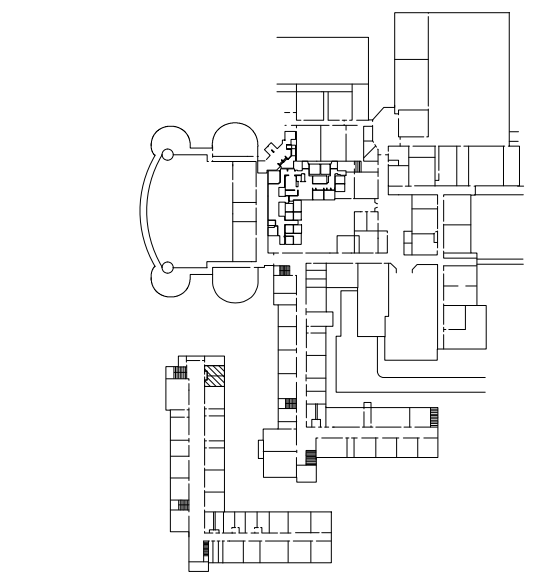
ITEM NO.	ITEM DESCRIPTION	DESIGN NO.	SIZE W x H x D	REMARKS
T10	PAPER TOWEL DISPENSER			1
T21	SOAP DISPENSER - LIQUID	B-2112		1
T30	FRAMED MIRROR	B-165	20"W X 32"H	-
T40	GRAB BAR	SEE SPEC	42"	-
T41	GRAB BAR	SEE SPEC	36"	-
T43	GRAB BAR-VERTICAL	SEE SPEC	18"	-
T50	TOILET TISSUE DISPENSER	B-2888		1
T60	TOILET PARTITIONS			SEE SPECS
T61	URINAL PARTITIONS			SEE SPECS
T81	SANITARY NAPKIN DISPOSAL UNIT			1

EQUIPMENT SCHEDULE GENERAL NOTES

- TOILET ROOM EQUIPMENT MODEL NUMBERS BOBRICK AS A BASIS OF DESIGN

EQUIPMENT SCHEDULE REMARKS

- PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. COORDINATE FINAL LOCATION IN THE FIELD WITH THE OWNERS REPRESENTATIVE AND ARCHITECT.



ISSUE DATE	ISSUED FOR
01/21/2020	BIDS
DRAWN	BJL
CHECKED	KRM
APPROVED	DCJ

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PROJECT
Garden City Public Schools High School Toilet Room Renovations
Garden City, Michigan

SHEET
Door Schedule, Equipment Schedule, Room Finish Schedule, Material & Color Schedule Demoiliton Notes

PROJECT NUMBER
2019-069

SHEET NUMBER
A3.01

201908 Garden City High School Toilet Room Renovations

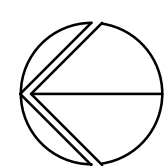
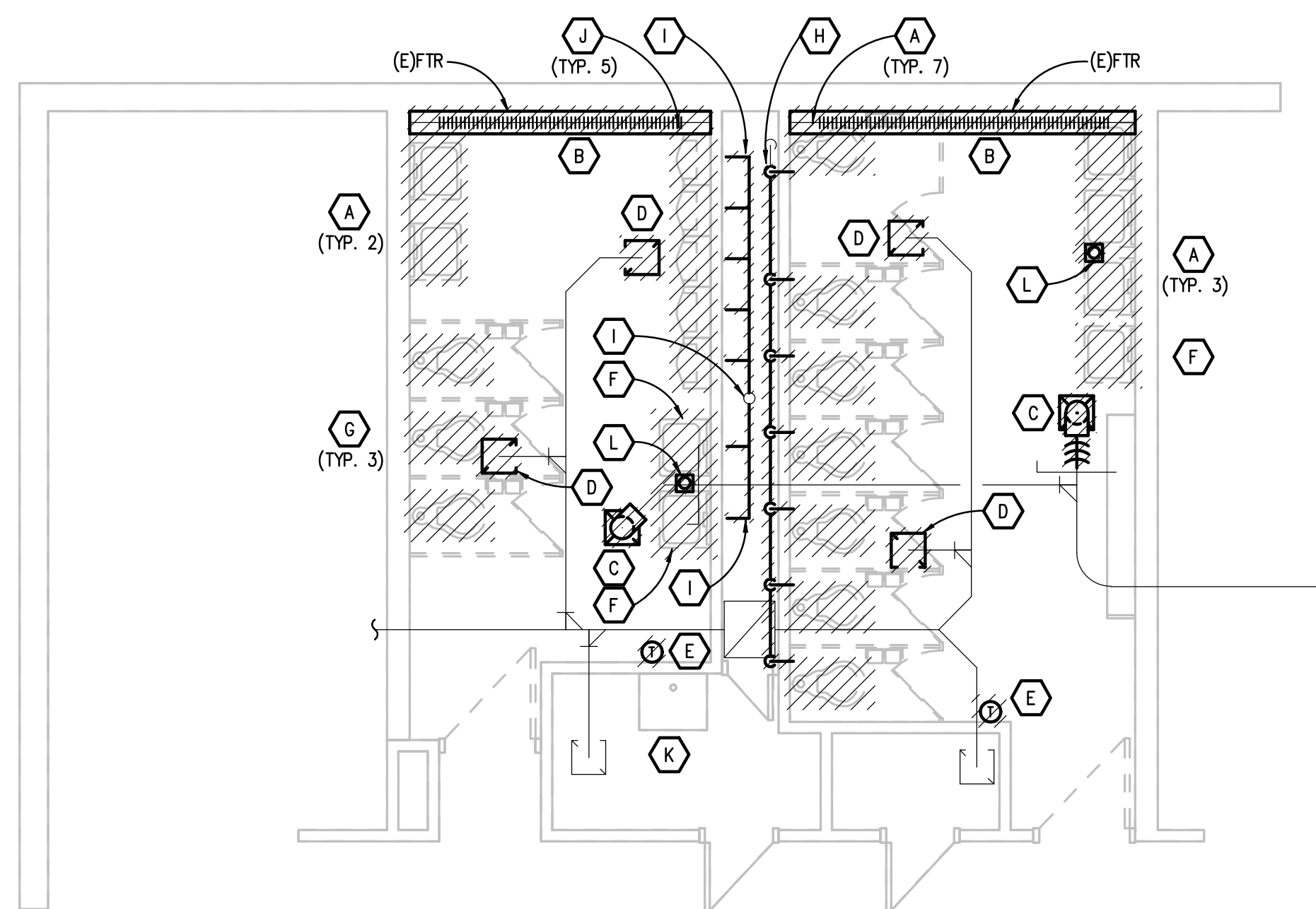
THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

MECHANICAL GENERAL DEMOLITION NOTES:

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
3. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
4. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

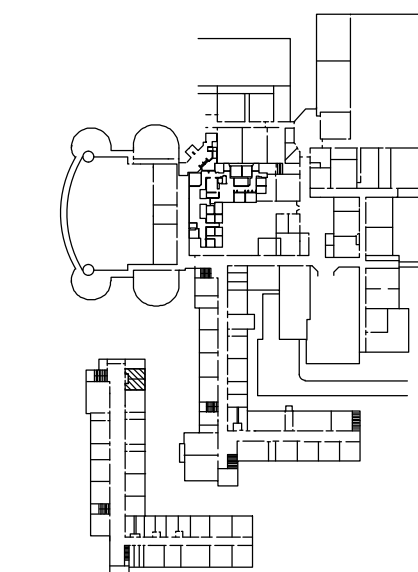
DEMOLITION KEY NOTES:

- A. REMOVE EXISTING PLUMBING FIXTURE(S) COMPLETE, INCLUDING FLUSH VALVE(S) AND/OR FAUCET(S). REMOVE SUPPLIES AND STOPS, AND PREPARE PIPING FOR NEW WORK.
- B. REMOVE FINNED TUBE RADIANT (FTR) HEATER COVER ONLY AND ASSOCIATED COVER BRACKETS.
- C. REMOVE SUPPLY DIFFUSER AND CORRESPONDING FLEX DUCTWORK, IF APPLICABLE. PREPARE DUCTWORK FOR NEW WORK. PRIOR TO DEMOLITION PROVIDE ENGINEER WITH AIR FLOW READINGS. RECORD READINGS FOR POST CONSTRUCTION BALANCING.
- D. REMOVE EXHAUST GRILLE. PREPARE DUCTWORK FOR NEW WORK. PRIOR TO DEMOLITION PROVIDE ENGINEER WITH AIR FLOW READINGS. RECORD READINGS FOR POST CONSTRUCTION BALANCING.
- E. TEMPORARILY REMOVE/PROTECT EXISTING PNEUMATIC THERMOSTAT SERVING FINNED TUBE RADIANT (FTR) HEATER DURING DEMOLITION. THERMOSTATS TO BE RE-USED/RELOCATED DURING NEW CONSTRUCTION.
- F. REMOVE EXISTING LAVATORY INCLUDING FAUCET COMPLETE. REMOVE CW, HW, SAN, AND VENT PIPING BACK TO SOURCE AND CAP.
- G. REMOVE EXISTING WATER CLOSET COMPLETE INCLUDING FLUSH VALVE. REMOVE SAN PIPING BELOW FLOOR AND CAP FLUSH WITH FLOOR. REMOVE CW PIPING BACK TO SOURCE AND CAP.
- H. REMOVE CW PIPING BACK AS INDICATED AND PREPARE FOR NEW WORK.
- I. REMOVE SAN PIPING BACK TO 4 INCH RISER AND PREPARE FOR NEW WORK.
- J. REMOVE URINAL AND SUPPORTS INCLUDING FLUSH VALVE COMPLETE. REMOVE CW AND SAN PIPING BACK TO SOURCE AND PREPARE FOR NEW WORK.
- K. MAINTAIN CW, HW, SAN, AND V PIPING TO EXISTING SERVICE SINK IN JANITORS CLOSET.
- L. SAW CUT FLOOR AND REMOVE EXISTING FLOOR DRAIN AND PREPARE FOR NEW WORK.

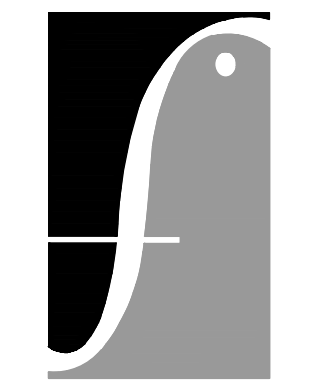


**HIGH SCHOOL WOMENS 205 AND MENS 201
TOILET ROOM MECHANICAL DEMOLITION PLAN**
SCALE: 1/4" = 1' - 0"

KEY PLAN



ISSUE DATE	ISSUED FOR
01/21/2020	BIDS
DRAWN	JRM
CHECKED	SVM
APPROVED	SVM



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PROJECT
Garden City Public Schools
High School
Toilet Room Renovations
Garden City, Michigan

SHEET
HIGH SCHOOL TOILET ROOM MECHANICAL DEMOLITION PLAN

PROJECT NUMBER
2019-069

SHEET NUMBER
MD2.10

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PLUMBING PIPING & VALVE APPLICATION SCHEDULE																																						
MATERIAL													PRESSURE CONNECTIONS										GRAVITY DWV CONNECTIONS				ISOLATION VALVES	KEYED NOTES										
PIPE SIZE (INCHES)	SOFT COPPER TYPE K	HARD COPPER TYPE L	HARD COPPER TYPE M	CARBON STEEL (SCHED. 40)	CARBON STEEL (STD.)	GALV. STEEL (SCHED. 40)	PEX	PE PIPE	PE SHEATHED CARBON STEEL PIPE	CSST	NO-HUB CSP	PVC TYPE DWV	PP DRAINAGE PIPE	COPPER TYPE DWV	DUCTILE IRON PIPE	SOLDERED	BRAZED	WELDED	THREADED	FLANGED	GROOVED	INSERT & CRIMP	FUSION	PRESSURE-SEAL	MECHANICALLY-FORMED TEE	MECHANICAL JOINT	PUSH-ON JOINT	SOLVENT WELDED	SOLDERED	FUSION	CSP HUBLESS	HEAVY-DUTY HUBLESS	BALL	AGA BALL	GENERAL SERVICE BUTTERFLY	LUBRICATED PLUG	GATE	KEYED NOTES
ABOVEGROUND DOMESTIC WATER (POTABLE AND NON-POTABLE) ON DISTRIBUTION SIDE OF METER - MIN. WORKING PRESS. & TEMP. 125 PSIG AT 200 DEG F																																						
UP TO 4	X														X	X			X	X			X	X										X	X			A
ABOVEGROUND SANITARY WASTE & VENT - MIN. WORKING PRESS. 10-FOOT HEAD OF WATER																																						
1-1/2 TO 15									X																			X										
UNDERGROUND SANITARY WASTE & VENT - MIN. WORKING PRESS. 10-FOOT HEAD OF WATER																																						
3 TO 12										X																					X							
3 TO 12											X																X											

- GENERAL NOTES**
- 'X' INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A PIPING SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
 - DISSIMILAR-METAL PIPING JOINTS: CONSTRUCT JOINTS USING DIELECTRIC FITTINGS COMPATIBLE WITH BOTH PIPING MATERIALS.
 - NPS 2 AND SMALLER: USE DIELECTRIC NIPPLE/WATERWAY.
 - NPS 2-1/2 AND LARGER: USE DIELECTRIC FLANGE KITS.
 - USE UNIONS OR FLANGES AT VALVE AND EQUIPMENT CONNECTIONS.
 - PLUMBING EQUIPMENT DRAINS, VENTS, SAFETY VALVE PIPING, BLOWDOWN PIPING AND THE LIKE SHALL BE SAME PIPING MATERIAL AS ASSOCIATED PIPING SYSTEM.
 - GROOVED END VALVES MAY BE USED WITH GROOVED PIPING.

- KEYED NOTES**
- GROOVED AND FLANGED FITTINGS, JOINTS, AND COUPLINGS, IF INDICATED AS AN ACCEPTABLE SELECTION, MAY BE USED IN ACCESSIBLE LOCATIONS ONLY FOR THIS PIPING SYSTEM. ACCESSIBLE LOCATIONS ARE DEFINED AS EXPOSED CONSTRUCTION OR ABOVE LAY-IN CEILINGS.
 - JOINTS ARE NOT PERMITTED ON UNDERGROUND WATER PIPING.
 - USE CAST IRON DRAINAGE PATTERN (DURHAM) FITTINGS.
 - INSTALL IN CONTAINMENT JACKET, REFER TO SPECIFICATIONS.
 - VALVES, UNIONS, AND FLANGED JOINTS MAY BE USED IN ACCESSIBLE LOCATIONS ONLY, EXCLUDING CEILINGS USED AS AIR PLENUMS. ACCESSIBLE LOCATIONS ARE DEFINED AS EXPOSED CONSTRUCTION OR ABOVE LAY-IN CEILINGS. USE ONLY STEEL WELDED FITTINGS AND WELDED JOINTS IN CEILING USED AS AIR PLENUMS.
 - NO JOINTS ALLOWED UNDERGROUND.

ABOVEGROUND PLUMBING PIPE & ACCESSORY INSULATION APPLICATION SCHEDULE													
INSULATION MATERIAL & THICKNESS (INCHES)	FIELD-APPLIED JACKET MATERIAL												
	FLEXIBLE ELASTOMERIC	FIBERGLASS	MINERAL WOOL	POLYISOCYANURATE	PHENOLIC	CELLULAR GLASS	CALCIUM SILICATE	ALUMINUM	STAINLESS STEEL	PVC	SELF-ADHESIVE (FOR OUTDOOR APPLICATIONS)	PVC (INDOOR)	PVC (OUTDOOR)
INDOOR PIPE SYSTEM AND SIZE (INCHES)													
DOMESTIC COLD WATER	1	1					X	X					A
DOMESTIC HOT WATER SUPPLY & RETURN 140 DEG F AND LESS:													
NPS 1-1/4 AND SMALLER	1	1					X	X					A
NPS 1-1/2 AND LARGER	1.5	1.5					X	X					A

- UNLESS OTHERWISE INDICATED OR SCHEDULED, DO NOT INSULATE THE FOLLOWING:
- FIRE SUPPRESSION PIPING
 - UNDERGROUND PIPING
 - LABORATORY GAS AND VACUUM PIPING
 - MEDICAL GAS AND VACUUM PIPING
 - FUEL GAS PIPING
 - FUEL OIL PIPING

- GENERAL NOTES**
- 'X' OR THICKNESS IN INCHES INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
 - INSULATE PIPING WITHIN AIR HANDLING EQUIPMENT THE SAME AS INDOOR PIPING. PROVIDE ALUMINUM OR STAINLESS STEEL JACKET.
- KEYED NOTES**
- PROVIDE FIELD APPLIED JACKET FOR PIPING EXPOSED IN EQUIPMENT ROOMS, STORAGE ROOMS, JANITORS CLOSETS, RECEIVING ROOMS, TEST AREAS, CIRCULATION AREAS AND SUCH AREAS SUBJECT TO DAMAGE, WITHIN 10 FEET (3 METERS) OF FINISHED FLOOR.
 - PROVIDE MANUFACTURER'S RECOMMENDED PROTECTIVE COATING FOR FLEXIBLE ELASTOMERIC THERMAL INSULATION.

DUCT SYSTEM APPLICATION SCHEDULE																		
DUCT MATERIAL	FIELD-APPLIED JACKET MATERIAL																	
	890 GALV. SHEET METAL	DOUBLE-WALL LINED 890 GALV. SHEET METAL (SOLID INNER WALL)	DOUBLE-WALL LINED 890 GALV. SHEET METAL (PERF. INNER WALL)	890 GALV. SHEET METAL WITH 1-INCH LINING	GALVANNEALED SHEET METAL	ALUMINUM	TYPE 304 STAINLESS STEEL	TYPE 316 STAINLESS STEEL	PVC COATED GALV. SHEET METAL (4X1)	PVC COATED GALV. SHEET METAL (1X4)	PVC COATED GALV. SHEET METAL (4X4)	16 GA. CARBON STEEL	ZERO-CLEARANCE PREFABRICATED RANGE HOOD EXHAUST DUCT	FABRIC	DESIGN PRESSURE CLASS (INCHES WG)	SEAL CLASS	MAX. ALLOWABLE LEAKAGE RATE (PERCENT)	KEYED NOTES
AIR SYSTEMS																		
SUPPLY AIR WITHOUT TERMINAL UNITS	X														+2	A	5	
EXHAUST AIR WITHOUT TERMINAL UNITS	X														-2	A	5	

- GENERAL NOTES**
- 'X' INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
 - 4 X 1 PVC-COATED GALVANIZED STEEL: FACTORY-APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON EXTERIOR SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND MINIMUM 1 MIL (0.025 MM) THICK ON INTERIOR SURFACES.
 - 1 X 4 (4 X 1 REVERSE COATED) PVC-COATED GALVANIZED STEEL: FACTORY-APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON INTERIOR SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND MINIMUM 1 MIL (0.025 MM) THICK ON EXTERIOR SURFACES.
 - 4 X 4 PVC-COATED GALVANIZED STEEL: FACTORY-APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND 4 MILS (0.10 MM) THICK ON OPPOSITE SURFACES.

- KEYED NOTES**
- SCREWS, DAMPERS, OR PROJECTIONS OF ANY TYPE ON INTERIOR OF DUCT SURFACE ARE PROHIBITED.
 - DUCT SHALL BE LINED WITHIN 25 FEET UPSTREAM OF FANS.
 - ALL WELDED CONSTRUCTION.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE									
UNIT IDENTIFICATION	TYPE	FACE SIZE	NECK SIZE	FRAME TYPE	ACCESSORY	CONSTRUCTION	FINISH	MODEL NUMBER	KEYED NOTES
S-1	DIFFUSER	24x24	8ø	SURFACE	OBD	STEEL	WHITE	SCD	
E-1	GRILLE	NECK+2"	12"x12"	SURFACE	OBD	STEEL	WHITE	530	

- GENERAL NOTES:**
- MODEL NUMBERS ARE PRICE UNLESS OTHERWISE NOTED.

SCHEDULES GENERAL NOTES:

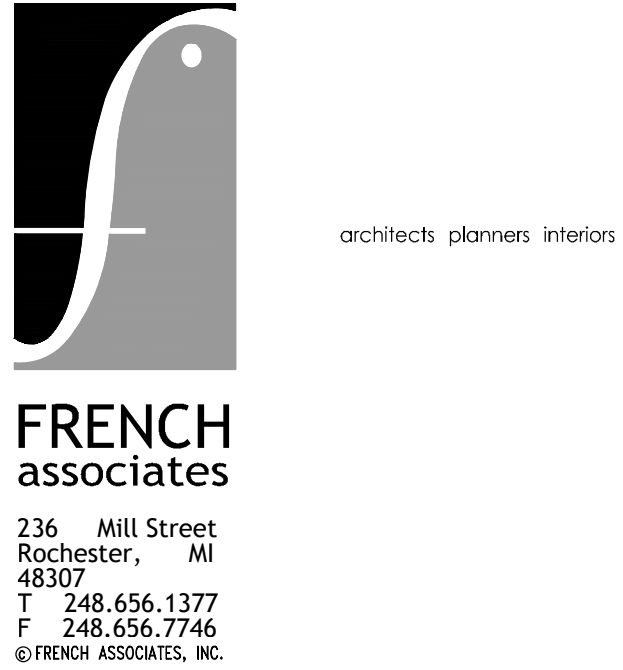
- TYPICAL FOR ALL SCHEDULE SHEETS:
- REFER TO ELECTRICAL STANDARD SCHEDULES, ONE LINE DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL ELECTRICAL INFORMATION.
 - PROVIDE THE FOLLOWING FACTORY-WIRED ELECTRICAL OPTIONS/ACCESSORIES WHERE INDICATED IN SCHEDULE:
 - NON-FUSED DISCONNECT SWITCH
 - UNIT SHALL BE SINGLE POINT ELECTRICAL CONNECTION WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS
 - SERVICE RECEPTACLE
 - FUSED DISCONNECT SWITCH
 - COMBINATION STARTER
 - UNIT SHALL HAVE (2) SINGLE POINT CONNECTIONS WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS. (1) CONNECTION SHALL BE FOR CONDENSING SECTION AND (1) CONNECTION SHALL BE FOR THE REMAINDER OF THE UNIT.
 - FOR MODULATION/CONTROL TYPE COLUMN, "VFC" INDICATES VARIABLE FREQUENCY CONTROLLERS, "AUTO" INDICATES AUTOMATIC OPERATION (CONTROLLED BY TEMPERATURE CONTROLS OR SELF CONTAINED CONTROLS), "MANUAL" INDICATES HAND OPERATION.
 - IF VARIABLE FREQUENCY CONTROLLERS ARE INDICATED TO BE PROVIDED AND ARE NOT INSTALLED INTEGRAL TO THE UNIT, VARIABLE FREQUENCY CONTROLLERS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR (UNLESS OTHERWISE NOTED) AND INSTALLED BY THE ELECTRICAL CONTRACTOR INCLUDING THE LINE SIDE AND LOAD SIDE WIRING TO THE MOTOR AND INCLUDING MISCELLANEOUS STEEL REQUIRED FOR THE SUPPORT AND MOUNTING OF THE VFC. REFER TO FLOOR PLANS FOR LOCATION.
 - WHERE EQUIPMENT IS INDICATED TO HAVE A SINGLE POINT ELECTRICAL CONNECTION, THAT EQUIPMENT SHALL COME COMPLETE WITH FACTORY INSTALLED STARTERS, MOTOR OVERLOAD PROTECTION, CONTACTORS, FUSING AND ALL NECESSARY INTERNAL WIRING AND CONTROLS. PROVIDE A FACTORY MOUNTED UNIT DISCONNECTING MEANS WHERE THE ELECTRICAL CONTRACTOR SHALL MAKE SINGLE POINT CONNECTION. INSTALL PACKAGED EQUIPMENT SUCH THAT THE ELECTRICAL CONNECTION AND CONTROLS ARE ACCESSIBLE AND HAVE CLEARANCES MEETING THE NATIONAL ELECTRICAL CODE.
 - WHERE PACKAGED EQUIPMENT IS PROVIDED, NAMEPLATE MUST INDICATE MAXIMUM OVERCURRENT PROTECTION BY HACR RATED CIRCUIT BREAKERS OR FUSES. IF FUSE PROTECTION ONLY IS INDICATED, PROVIDE A FUSIBLE DISCONNECT AND FUSES WITH THE UNIT.
 - WHERE EQUIPMENT IS DESIGNATED BY MANUFACTURER AND MODEL NUMBER, THIS IS THE BASIS OF DESIGN. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT BY OTHER SPECIFIED MANUFACTURERS OR PROPOSED ALTERNATE EQUIPMENT BY THE BASIS OF DESIGN MANUFACTURER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS TO ELECTRICAL REQUIREMENTS, STRUCTURAL LOADING, OR ARCHITECTURAL APPEARANCES AND SHALL INCLUDE THE COST OF SUCH REVISIONS IN HIS BID.
 - WHERE EQUIPMENT IS SCHEDULED TO INCLUDE A SERVICE RECEPTACLE, PROVIDE A FACTORY MOUNTED SERVICE RECEPTACLE WITH APPROPRIATE FUSES AND TRANSFORMERS CONNECTED ON THE LINE SIDE OF THE UNIT DISCONNECT. PROVIDE A NAMEPLATE ON THE DISCONNECT SWITCH INDICATING THE PRESENCE OF LIVE POWER TO THE SERVICE RECEPTACLE WHEN THE UNIT DISCONNECT IS IN THE OFF POSITION.
 - SIZE ALL EQUIPMENT FEEDERS BASED ON THE LISTED MOP (MAXIMUM OVERCURRENT PROTECTION). REFER TO THE FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE ON THE ELECTRICAL STANDARD SCHEDULES SHEET.

PLUMBING CONNECTION SCHEDULE					
UNIT IDENTIFICATION	CW INCHES	HW INCHES	SAN INCHES	VENT INCHES	KEYED NOTES
UR-1	3/4	-	2	1 1/2	
WC-1	1 1/2	-	4	2	
LAV-1	1/2	1/2	1 1/2	1 1/2	
FD-1	-	-	3	-	

- GENERAL NOTES:**
- INDIVIDUAL WATER LINE BRANCHES, WASTE LINES, VENTS, AND TRAPS FOR CONNECTION TO INDIVIDUAL FIXTURES, FIXTURE FITTINGS, AND SPECIALTIES SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE OR AS INDICATED ON DRAWINGS, WHICHEVER IS GREATER.

- KEYED NOTES:**
- PROVIDE MIXING VALVE.

KEY PLAN	
ISSUE DATE	ISSUED FOR
01/21/2020	BIDS
DRAWN	JRM
CHECKED	SWM
APPROVED	SWM



PROJECT
 Garden City
 Public Schools
 High School
 Toilet Room Renovations
 Garden City,
 Michigan

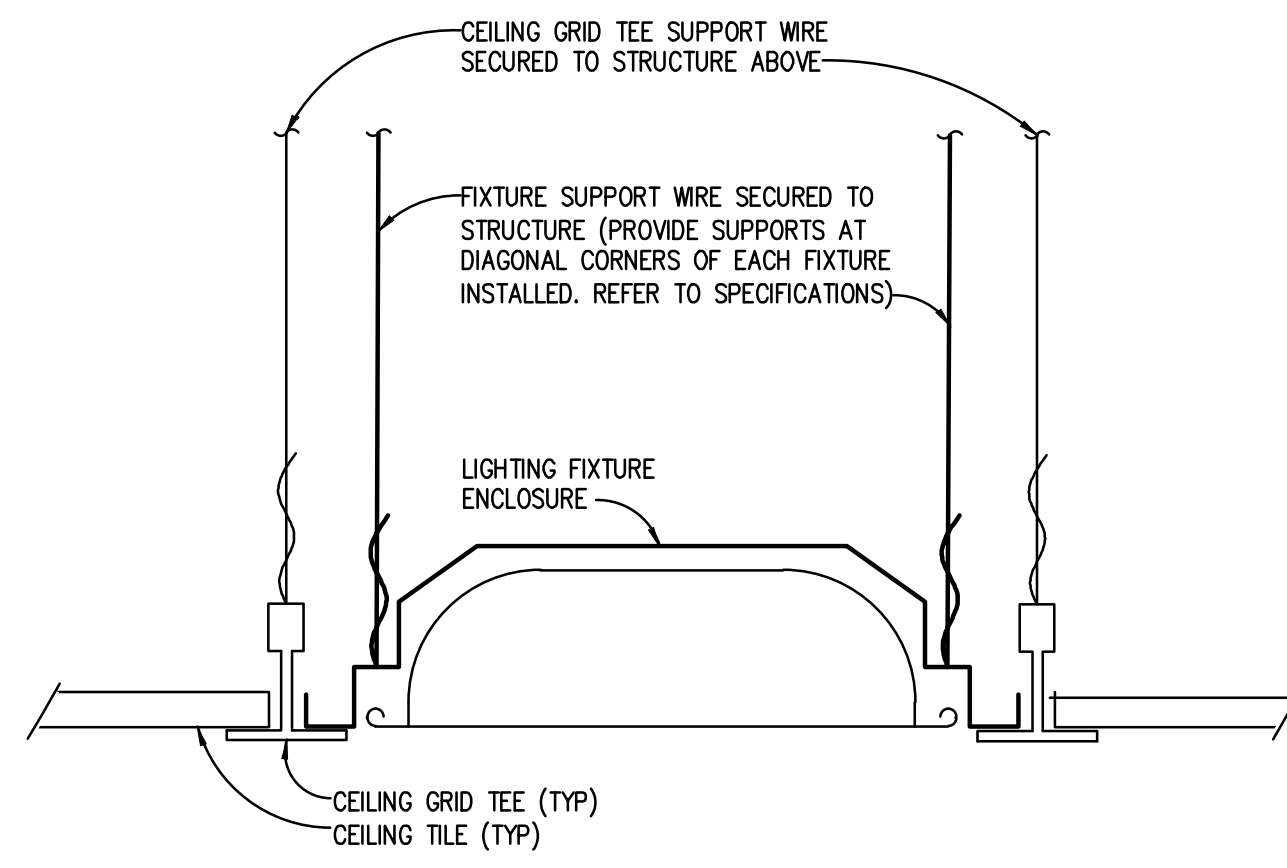
SHEET
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 SCHEDULES
 PROJECT NUMBER
 2019-069
 SHEET NUMBER
 M7.01

2019-069 Garden City High School Toilet Room Renovations

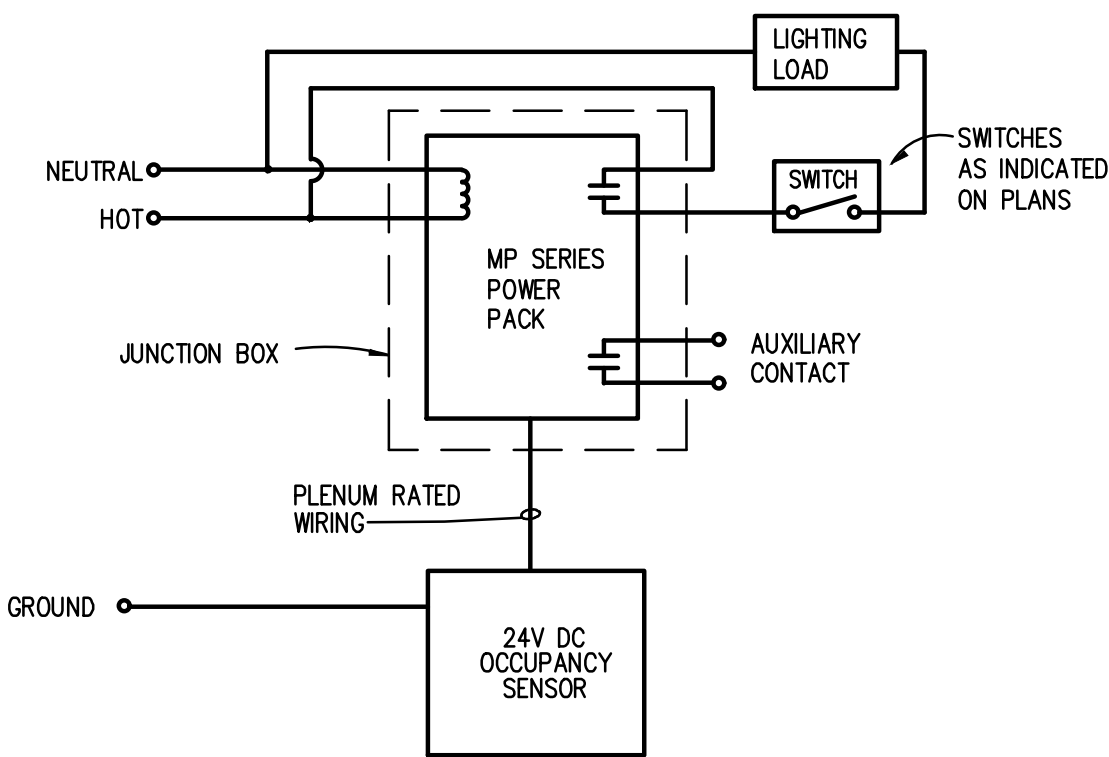
RACEWAY / CONDUCTOR / CABLE APPLICATION SCHEDULE										
WIRE	RACEWAY							CABLE/CORD		
	COPPER, TYPE THHN/THWN-2	ELECTRICAL METALLIC TUBING (EMT)	RIGID STEEL CONDUIT (RSC)	PVC COATED RIGID STEEL CONDUIT	RIGID NON-METALLIC CONDUIT (RNC) TYPE EPC-40	FLEXIBLE METAL CONDUIT (FMC)	LIQUID TIGHT FLEXIBLE METAL CONDUIT (LFMC)	SURFACE RACEWAY	CABLE TRAY	POWER LIMITED CABLE
BRANCH CIRCUITS - INTERIOR	CONCEALED, ACCESSIBLE CEILING	X	X							X
	CONCEALED, INACCESSIBLE CEILING	X	X							
	CONCEALED IN GYPSUM BOARD PARTITION WALLS	X	X		X					X
	CONCEALED IN CMU WALLS	X	X							
	EXPOSED, FINISHED SPACES	X							X	
	DAMP AND WET LOCATIONS	X	X	X	X	X				
SPECIAL APPLICATIONS	CLASS 1 CONTROL CIRCUITS	X	X							X
	CLASS 2 CONTROL CIRCUITS	X	X						X	X
	CLASS 3 CONTROL CIRCUITS	X	X						X	X

GENERAL NOTES:
 1. TRANSITION FROM PVC/HDPE AND PROVIDE RIGID STEEL SWEEPS WHERE CONDUITS PENETRATE WALLS, CONCRETE SLABS, CONCRETE BASES, AND ASPHALT.
 2. REFER TO SPECIFICATIONS FOR RESTRICTIONS ON MC/AC CABLE INSTALLATION.

KEYED NOTES:
 1. CONDUIT AND BUILDING WIRE ALLOWED WHEN ENCASED IN MINIMUM 2" CONCRETE.
 2. SHALL NOT BE USED FOR LIFE SAFETY OR CRITICAL CIRCUITS EXCEPT WHERE PERMITTED BY NEC 517.
 3. SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS BASED ON UL TESTING AND RATING.
 4. EMERGENCY FEEDERS IN OCCUPANCIES THAT ARE UNDER 70010(D) SHALL HAVE A TWO HOUR RATING. RATING SHALL BE OBTAINED BY ROUTING CONDUIT AND BUILDING WIRE IN SPRINKLER SPACE.
 IN A TWO HOUR SHAFT, OUTSIDE OF THE BUILDING, IN A LISTED TWO HOUR RATED RACEWAY, OR UNDER A MINIMUM OF 2" OF CONCRETE; OR BY USING A LISTED TWO-HOUR RATED CABLE ASSEMBLY.
 5. PULLING LUBRICANT SHALL NOT BE USED.



**RECESSED LIGHTING FIXTURE
INSTALLATION DETAIL**
NO SCALE

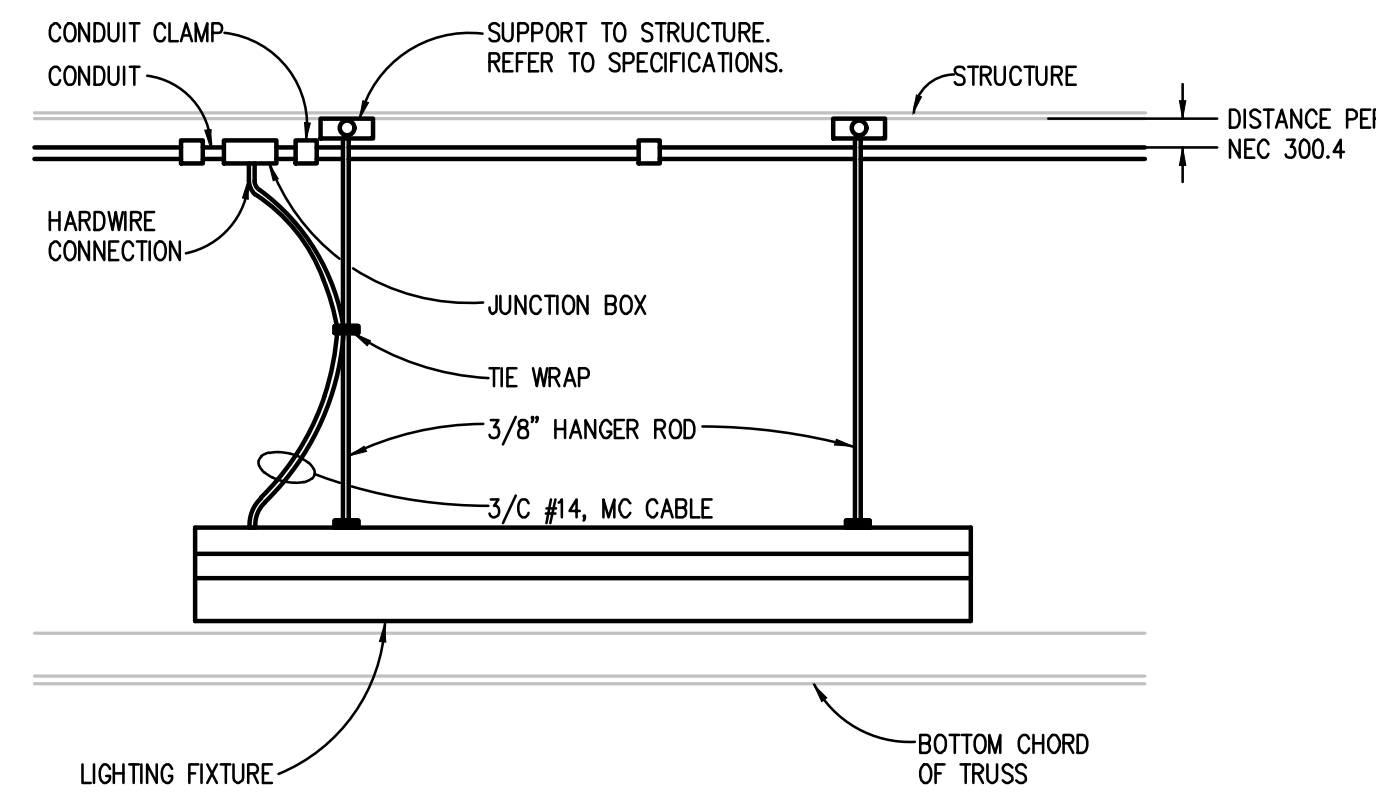


**CEILING MOUNTED OCCUPANCY SENSOR
WIRING DIAGRAM**

NO SCALE

NOTES:

1. OCCUPANCY SENSOR SHALL LEVITON (OWNER STANDARD).
2. PROVIDE POWER PACKS AND SLAVE PACKS AS REQUIRED FOR SWITCHING AS INDICATED ON PLAN. REVISE DETAIL AS REQUIRED BY MANUFACTURER.
3. MOUNTING LOCATION PER MANUFACTURER'S RECOMMENDATION.
4. ADJUST SENSITIVITY LEVELS PER THE OWNER.
5. PROVIDE FACTORY SUPPORT FOR AIMING/ADJUSTING OF SENSORS.



**DETAIL OF PENDANT MOUNTED
LINEAR LIGHTING FIXTURE**

NO SCALE

LIGHTING FIXTURE SCHEDULE				
TYPE	DESCRIPTION	VOLTAGE	(QTY.) LAMPS	MANUFACTURERS
L1	LED 2'X2' RECESSED FLAT PANEL LIGHT FIXTURE: ALUMINUM BEZEL, STEEL BACKING AND WHITE FROST ACRYLIC DIFFUSER. PROVIDE WITH 0-10V DIMMING TO 10% FOR FIXTURES INDICATED AS EMERGENCY PROVIDE 1,400 LUMENS OUTPUT BATTERY PACK.	MULTI	2,000 LUMENS 4000K 80CRI	1. LITHONIA EPANL SERIES 2. METALUX 22FP SERIES 3. COLUMBIA CFP SERIES
L2	CHAIN HUNG 4'-0" LED FIXTURE: FROSTED LENS WITH WIREGUARD, CHAIN HUNG. FIXTURE SHALL BE MOUNTED AT 9'-0" AFF TO BOTTOM OF FIXTURE (U.O.N.). LOCATE FIXTURES TO AVOID MECHANICAL EQUIPMENT.	MULTI	5,000 LUMENS 4000K 80CRI	1. LITHONIA ZL1D SERIES 2. METALUX S/LED SERIES 3. COLUMBIA MPS SERIES
L3	CHAIN HUNG 2'-0" LED FIXTURE: FROSTED LENS WITH WIREGUARD, CHAIN HUNG. FIXTURE SHALL BE MOUNTED AT 9'-0" AFF TO BOTTOM OF FIXTURE (U.O.N.). LOCATE FIXTURES TO AVOID MECHANICAL EQUIPMENT.	MULTI	3,500 LUMENS 4000K 80CRI	1. LITHONIA ZL1D SERIES 2. METALUX S/LED SERIES 3. COLUMBIA MPS SERIES

COORDINATE WITH ARCHITECTURAL PLANS FOR CEILING TYPES.

ALL LED FIXTURES SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:

MULTI-VOLT ELECTRONIC DRIVER. MINIMUM OF 50,000 HOURS OPERATION WITH GREATER THAN 70% DELIVERED LUMEN OUTPUT. LUMENS SHALL BE DELIVERED LUMENS.
 INDOOR DRIVERS SHALL BE RATED FOR A MINIMUM 65°C.
 OUTDOOR DRIVERS SHALL BE RATED FOR MINIMUM -20°C.
 DRIVER SHALL BE LABELED TO COMPLY WITH NEMA SSL1, AND THD OF LESS THAN 20%.
 DRIVER SHALL BE SERVICEABLE FROM BELOW CEILING.
 LUMINAIRE SHALL COMPLY WITH IES STANDARDS LM-79 AND LM-80.

BRANCH CIRCUIT VOLTAGE DROP WIRING SCHEDULE FOR SINGLE PHASE CIRCUITS						
BRANCH CIRCUIT RATING (A)	WIRE SIZE (AWG)	MAXIMUM BRANCH CIRCUIT LENGTH (IN FEET)				
		120V	208V	240V	277V	480V
20A	12	83	143	165	191	331
	10	128	222	256	295	511
	8	201	348	402	464	804
	6	313	542	625	721	1250
	4	485	817	947	1087	1875
30A	10	85	148	170	197	341
	8	134	232	268	309	536
	6	208	361	417	481	833
	4	313	542	625	721	1250

GENERAL NOTES:

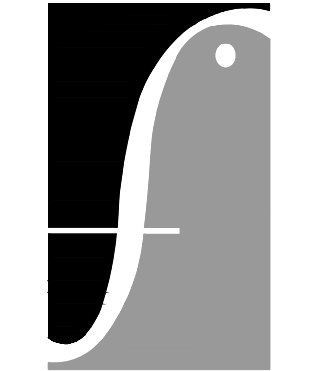
1. THE ABOVE TABLE VALUES ARE BASED ON COPPER CONDUCTORS, IN STEEL CONDUIT, WITH A LOAD POWER FACTOR OF 0.85 PER NEC CHAPTER 9, TABLE 9.
2. PROVIDE BRANCH CIRCUIT CONDUCTORS AS INDICATED IN THE TABLE ABOVE FOR ALL LIGHTING AND RECEPTACLE BRANCH CIRCUITS. WHERE BRANCH CIRCUITS SERVE DEDICATED EQUIPMENT, THE CONTRACTOR MAY PERFORM VOLTAGE DROP CALCULATIONS BASED ON ACTUAL EQUIPMENT CONNECTED LOAD AND PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.
3. CONDUCTOR SIZES ARE BASED ON MAXIMUM OF 9 CURRENT CARRYING CONDUCTORS IN A SINGLE CONDUIT.
4. LIMITS FOR CONDUCTOR LENGTHS SHOWN ARE BASED ON A MAXIMUM BRANCH CIRCUIT LOADING OF 64% OF THE BRANCH BREAKER RATING AND A MAXIMUM OF 3 PERCENT VOLTAGE DROP TO COMPLY WITH ASHRAE 90.1 AND THE NEC. FOR CIRCUITS LOADED GREATER THAN 64% OF BRANCH BREAKER RATING, THE CONTRACTOR SHALL PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO 3%.

OCCUPANCY SENSOR LEGEND	
TYPE	DESCRIPTION
OS _A	360° CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
OS _B	90° CEILING/WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
OS _C	360° CEILING MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR
OS _D	360° CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR
OS _E	360° CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR - CORRIDOR OPTIMIZED
So	WALL SWITCH OCCUPANCY SENSOR
So2	WALL SWITCH OCCUPANCY SENSOR - DUAL LEVEL SWITCHING
Do	WALL DIMMER SWITCH OCCUPANCY SENSOR

ISSUE DATE	ISSUED FOR
01/21/2020	BIDS
DRAWN	LLJ
CHECKED	GJZ
APPROVED	GJZ



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PROJECT
**Garden City
Public Schools
High School
Toilet Room Renovations**
 Garden City,
Michigan

SHEET
**ELECTRICAL
STANDARD
SCHEDULES AND
DETAILS**

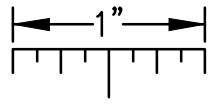
PROJECT NUMBER
 2019-069

SHEET NUMBER
E0.02

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NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

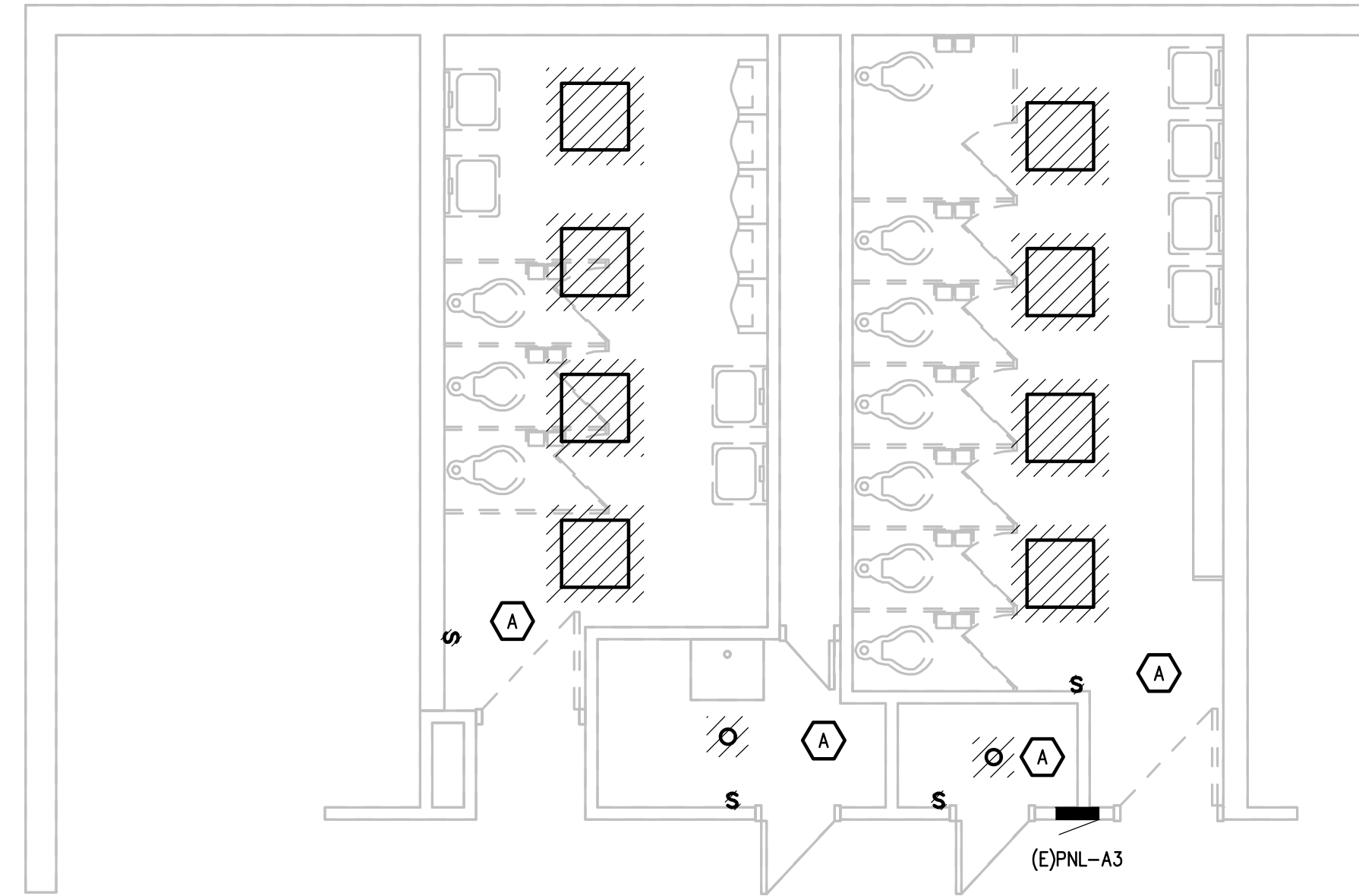


**ELECTRICAL DEMOLITION
GENERAL NOTES:**

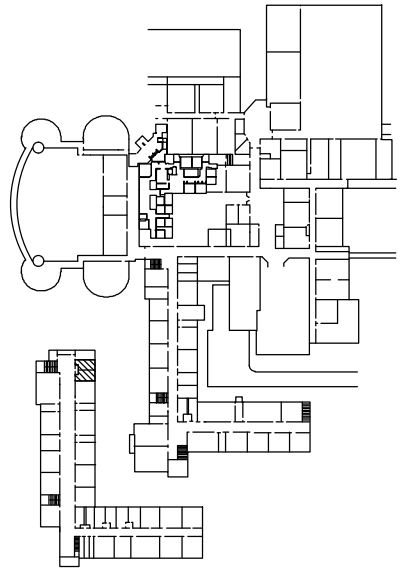
1. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
2. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
3. REMOVE EQUIPMENT OR MATERIALS AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE COMPONENTS SHOWN.
4. COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
5. PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
6. REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.
7. MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.
8. DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING TCLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.
9. PROVIDE BLANK COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
10. RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE".
11. PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.
12. VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
13. COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.

DEMOLITION KEY NOTES:

- A. REMOVE LIGHTING WITHIN SPACE, MAINTAIN BRANCH CIRCUIT FOR RECONNECTION TO NEW LIGHTING. REFER TO NEW WORK PLAN FOR EXTENT OF WORK.

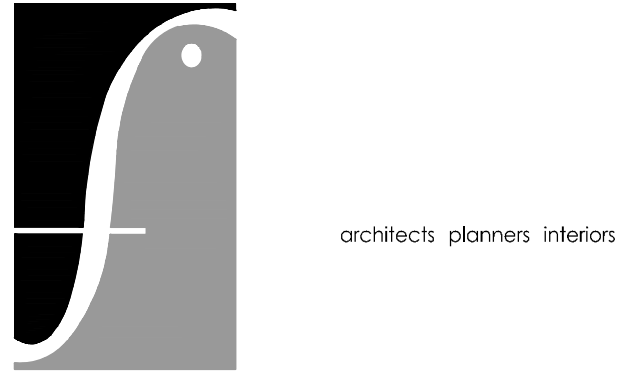


KEY PLAN

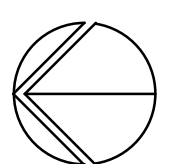


ISSUE DATE	ISSUED FOR
01/21/2020	BIDS
DRAWN	LLJ
CHECKED	GJZ
APPROVED	GJZ

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**HIGH SCHOOL WOMENS 205 AND MENS 201
TOILET ROOM ELECTRICAL DEMOLITION PLAN**
SCALE: 1/4" = 1' - 0"

PROJECT
Garden City Public Schools
High School
Toilet Room Renovations
Garden City, Michigan

SHEET
HIGH SCHOOL TOILET ROOM ELECTRICAL DEMOLITION PLAN

PROJECT NUMBER
2019-069

SHEET NUMBER
ED2.10

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2019-069 Garden City High School Toilet Room Renovations

