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TO: Prospective Bidders

PROJECT: South Harbor Garage

Bathroom Renovation & Security Cameras

Salem, Massachusetts RBA Project No. 2021003 Salem Bid No. 22-16-180

FROM: Russo Barr Associates, Inc.

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DATE: January 31, 2022

This addendum modifies the Project Manual as noted below. Acknowledge receipt of this addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

ADDENDUM NO. 1

The Bid Due Dates have been changed, as indicated in the Project Manual.

Filed Sub-Bids are due on February 4, 2022, at 11:30 AM General Bids are due on February 11, 2022, at 11:30 AM

This addendum consists of 4 pages (this 1page and 3 drawings).

QUESTIONS/CLARIFICATION

 Specification Section 097720 – Decorative FRP, 2.02 Wall Panels: This section lists BlueSky and Symmetrix. Symmetrix is noted as FRP-1 where is BlueSky being utilized? Also is there a color choice as this impacts the cost.

Response: Blue Sky is the digital printing process that is used by this particular manufacturer (basis of design). It is used on all types of panels. FRP-1 panels would be Symmetrix, to mimic a tile wall. The color will be White, with a grid tile pattern.

2. Regarding the Envue FRP-2 the manufacturer is indicating that this usually indicates some sort of graphic or art panel and cost is determined by what is needed. Does the designer have a graphic file to Share?

Response: FRP-2 panels (Envue for the basis of design) are the panels that will be imprinted with a graphic or photo, to be provided by the owner. The owner will provide a digital file of a photograph, suitable to the panel manufacturer.

CHANGES TO DRAWINGS

1. Deleete drawings P0, P1 & P2, dated 1/19/22 and Insert the attached drawings P0, P1 & P2, dated 11/10/21. These new drawings show the proper locations for the floor drains to be added.

END OF ADDENDUM NO. 1

GENERAL SPECIFICATIONS GENERAL NOTES DIELECTRIC INSULATING FITTINGS SHALL BE USED WHERE PIPES OF DISSIMILAR METALS ARE CONNECTED. ALL PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE MASSACHUSETTS STATE PLUMBING CODE, LATEST EDITION. ALL PIPING SHALL BE NEW, INSTALLED PARALLEL TO BUILDING LINES AND PITCHED TO LOW POINTS. CAREFULLY COORDINATE LOCATION OF PIPING WITH ALL OTHER TRADES. PLUMBING CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL CONDITION AND COORDINATE THE BEST ROUTE OF NEW PIPING AND ALL PIPING SHOWN DIAGRAMMATICALLY AND EXACT LOCATION SHALL BE DETERMINED IN THE FIELD. LOCATIONS OF NEW EQUIPMENT IN COORDINATION WITH THE WORK OF ALL OTHER TRADES, AND ALL CONDITION TO ENSURE THAT ALL WILL FIT IN THE SPACE WITH NO INTERFERENCES. ALL PIPING SHALL BE RUN CONCEALED ABOVE CEILINGS, IN WALLS AND IN CHASES, UNLESS OTHERWISE NOTED. ALL NEW SYSTEM SHALL BE TESTED, BALANCED AND ADJUSTED TO INSURE PROPER OPERATION AND CODE COMPLIANT INSTALLATION. NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT THE APPROVAL OF THE STRUCTURE ENGINEER. PIPING AND EQUIPMENT SHALL BE TESTED IN ACCORDANCE WITH THE STATE PLUMBING CODE. . ALL PIPING SHALL BE SUPPORTED FROM BUILDING STRUCTURE. BAND HANGERS SHALL BE USED TO SUPPORT PIPING. PIPE SHIELDS SHALL BE INSTALLED TO PROTECT AGAINST DAMAGE TO THE PIPE INSULATION. 3/8" RODS SHALL BE USED. THE TERM "PROVIDE" SHALL MEAN FURNISH AND INSTALL. ALL COLD WATER, HOT WATER, HOT WATER RETURN, TEMPERED WATER SUPPLY AND RETURN, CHILLED WATER SUPPLY AND RETURN RUN WATER PIPE ON THE WARM SIDE OF BUILDING INSULATION. NO WATER PIPING SHALL BE RUN ON EXTERIOR WALLS. PIPING SHALL BE INSULATED WITH 1 ½" FIBERGLASS INSULATION WITH FACTORY APPLIED JACKET, ALL FITTINGS AND VALVES SHALL BE PROVIDED WITH INSULATION AND WHITE PREMOLDED PVC INSULATION COVERS. ALL COLD WATER PIPING MAINS AND BRANCH RUNOUTS THAT ARE EXPOSED SHALL BE COVERED WITH WHITE PVC PIPE COVERS. THIS SHALL INCLUDE ALL FITTINGS AND VALVES. ALL FITTINGS PROVIDE DRAWOFFS WITH BALL VALVE, HOSE END VACUUM BREAKER, CAP & CHAIN AT ALL DOMESTIC WATER LOW POINTS AND PITCH AND VALVES SHALL BE PROVIDED WITH INSULATION AND WHITE PROMOLDED PVC INSULATION COVERS. PIPING TO DRAIN. ABOVE GROUND WATER PIPING SHALL BE TYPE "L" COPPER WITH SOLDER JOINTS USING 95/5 SOLDER. BELOW GROUND WATER PIPING $^{10.}$ - ALL SANITARY WASTE PIPING SHALL PITCH A MIN OF %" PER FT. FOR PIPING 4" & LARGER, AND χ " PER FT FOR PIPING UP TO 3". SHALL BE TYPE "K" COPPER WITH SILVER SOLDER JOINTS, FLARED END JOINTS OR OTHER FITTINGS AS APPROVED BY THE STATE . PROVIDE SHOCK ABSORBERS ON ALL PIPING SERVICING FLUSH VALVE FIXTURES. DRAIN AND VENT PIPING 2" AND SMALLER SHALL BE TYPE "L" COPPER WITH SOLDER JOINTS AND DRAINAGE PATTERN FITTINGS. 2. ALL PIPING SHALL BE NEW, INSTALLED PARALLEL TO BUILDING LINES AND PITCHED TO LOW POINTS. DRAIN AND VENT PIPING ABOVE GROUND LARGER THAN 2" SHALL BE SERVICE WEIGHT CAST IRON WITH STAINLESS NO-HUB FITTINGS AND COUPLINGS WITH NEOPRENE GASKET. DRAIN PIPING BELOW GROUND SHALL BE AS ABOVE, EXCEPT FOR MECHANICAL JOINT WITH PUSH 3. PLUMBING CONTRACTOR SHALL PROVIDE FIRESTOPPING FOR ALL PENETRATIONS THRU FIRE WALLS AND FIRE RATED SEPARATIONS. ON FITTINGS AND RESILIENT GASKET. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR THESE AREAS. 4. PLUMBING CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL SCAFFOLDING, HOISTING EQUIPMENT DERRICKS, ETC., NECESSAF ALL GAS PIPE 3 1/2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED ENDS AND SCREW FITTINGS. ALL GAS PIPE 4" AND LARGER SHALL BE SCHEDULE 40 BLACK STEEL WITH PLAIN ENDS AND WELDED FITTINGS. THE PLUMBING CONTRACTOR SHALL OBTAIN PERMITS FOR ALL WELDING WORK PRIOR TO ANY WELDING AT THE SITE. ALL PLUMBING PIPING AND DRAINS SHALL BE KEPT CLEAR OF BLOCKAGE WHILE CONSTRUCTION IS UNDERWAY. ALL PLUMBING PIPING SHUT OFF VALVES ON GAS PIPE 2" AND SMALLER SHALL BE GAS SERVICE RATED BALL VALVES, SHUT OFF VALVES LARGER THAN 2"SHALL SHALL BE DEBURRED BEFORE JOINTS ARE MADE BE IRON PLUG VALVES WITH FLANGED ENDS. 16. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING IN ORDER TO ACCOMMODATE THE PLUMBING WORK ALL VALVES INSTALLED ON PIPING INTENDED FOR POTABLE WATER AND/OR CONSUMPTION SHALL BE LEAD FREE. WHERE PLUMBING DROPS ONLY ARE SHOWN TO FIXTURES OR GROUPS OF FIXTURES, THE PLUMBING CONTRACTOR SHALL MAKE ALL BALL VALVES SHALL BE FULL PORT WITH STAINLESS STEEL BALL AND STEM WITH SOLDER OR THREADED FITTINGS AS APPLICABLE. FINAL CONNECTIONS OF WATER, SANITARY AND VENT TO EACH FIXTURE. PLUMBING CONNECTIONS TO FIXTURES SHALL BE IN ACCORDANCE WITH THE PLUMBING FIXTURE SCHEDULE. PROVIDE SERVICE STOP AT EACH FIXTURE THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS AND FLOORS TO ACCOMMODATE 3. ALL ISOLATION VALVES AND BUTTERFLY VALVES INSTALLED IN WALLS OR ABOVE CEILINGS SHALL BE PROVIDED WITH ACCESS PANELS . INSTALLATION OF NEW PIPING AND EQUIPMENT. THE PLUMBING CONTRACTOR SHALL PATCH ALL SURFACE TO MATCH EXISTING WHERE REMOVABLE SUSPENDED CEILING TILES ARE USED, NO ACCESS PANELS ARE REQUIRED. CONDITION, AND TO THE SATISFACTION OF THE OWNER/ARCHITECT. 19. ALL PIPING RISER PENETRATIONS THRU FLOORS SHALL BE SEALED WATER TIGHT 5. ALL VALVES INDICATED SHALL BE BY APPOLLO, CONBRACO, WATTS, OR APPROVED EQUAL. ALL EXISTING CONDITIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT INTENDED TO SHOW EXACT EXISTING CONDITIONS, ALL 6. ALL CLEANOUTS SHALL BE BY J.R. SMITH, ZURN, WATTS, OR APPROVED EQUAL. CLEANOUT SHALL BE WITH BRONZE PLUGS. EXISTING CONDITIONS SHALL BE VERIFIED BY THE PLUMBING CONTRACTOR IN THE FIELD. ALL POINTS OF CONNECTION TO EXISTING SYSTEMS SHALL BE DETERMINED IN THE FIELD BY THE PLUMBING CONTRACTOR. '. ALL SHOCK ABSORBERS SHALL BE BY J.R. SMITH, WATTS, SIOUX CHIEF OR APPROVED EQUAL. PRIOR TO BID, THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL ASPECTS OF THE WORK AND ALL ALL VALVES SHALL BE PROVIDED WITH TAGS, ALL PIPING SHALL BE LABELED WITH ADHESIVE DECALS PER ASME AND STATE PLUMBING CONDITIONS TO WHICH THE WORK WILL BE INSTALLED, ANY DISCREPANCY BETWEEN THE WORK SHOWN ON THE DRAWINGS AND ANY CODE STANDARDS. CONDITIONS. EXISTING OR PROPOSED. SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING. FAILURE OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS AND THEIR RELATION TO THE NEW WORK AND FAILURE TO SUBMIT PROVIDE ACCESS PANELS BY MILACRON. ACCESS PANELS SHALL BE 18"X18" AND SHALL BE WITH A PRIMED FINISH FOR PAINTING BY DISCREPANCIES IN WRITING TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY PLUMBING WORK SHALL NOT BE ACCEPTED AS OTHERS. ACCESS PANELS SHALL BE TO THE G.C. FOR INSTALLATION. ALL ACCESS PANEL SHALL BE APPROVED BY THE OWNER/ARCHITECT CAUSE FOR ANY EXTRA CHARGE TO THE CONTRACT. CONTRACTOR SHALL COORDINATE ALL SHUT DOWNS OF EXISTING SYSTEMS WITH OWNER. ALL SHUT DOWNS SHALL BE PERFORMED AS 0. PROVIDE "P" TRAP FOR ALL FLOOR DRAINS, AND WHERE REQUIRED. REQUESTED BY OWNER. NO SHUT DOWNS SHALL BE PERFORMED DURING NORMAL BUSINESS UNLESS AUTHORIZED BY OWNER THE DRAWINGS ARE DIAGRAMMATIC ONLY. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT ROUTE OF ALL PIPING IN THE FIELD AND IN CONJUNCTION WITH COORDINATION OF ALL EXISTING CONDITIONS, NEW CONSTRUCTION, AND BUILDING UTILITY NOTES COORDINATION WITH ALL OTHER TRADE TO INSURE ALL OF THE PLUMBING SYSTEM WILL FIT INTO THE SPACE WITH NO INTERFERENCE BETWEEN ANY EXISTING OR NEW CONDITION AND ANY OTHER TRADE. ALL UNDERGROUND SANITARY, STORM, DOMESTIC WATER & FIRE PROTECTION LOCATIONS MAY VARY FROM WHERE SHOWN ON DRAWINGS WITH THE ACTUAL BUILDING. THE LOCATIONS SHOWN ON THE PLUMBING DRAWINGS ARE INTENDED TO SHOW APPROXIMATE THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTION TO ALL GAS-FIRED EQUIPMENT. ALL FINAL CONNECTION SHALL BE LOCATIONS ONLY AND ARE NOT INTENDED TO BE USED FOR THE BUILDING AT THE SITE. THE PLUMBING CONTRACTOR SHALL CAREFULL' MADE WITH A SHUT OFF VALVE, UNION, AND DIRT LEG. COORDINATE THE LOCATIONS AND SIZES OF ALL UNDERGROUND SANITARY, STORM, DOMESTIC WATER, PROPANE AND FIRE PROTECTIC MAINS THAT ENTER AND EXIT THE BUILDING WITH THE CIVIL DRAWINGS, THE SITE CONTRACTOR, THE FIRE PROTECTION CONTRACTOR B. DIRT LEG SHALL BE PROVIDED AT THE BASE OF ALL VERTICAL GAS PIPING. AND THE ARCHITECT IN ORDER TO ESTABLISH EXACT LOCATIONS AND INVERT ELEVATIONS FOR THE BUILDING AT THE SITE, NO WORK SHOWN ON THE PLUMBING DRAWINGS SHALL BE INSTALLED UNTIL THIS COORDINATION HAS BEEN COMPLETED AND EXACT LOCATIONS, . THE LOCATION OF ALL GAS-FIRED EQUIPMENT AND THE GAS CONNECTION ARE APPROXIMATE ONLY AND SHALL BE DETERMINED IN THE SIZES AND INVERT ELEVATIONS HAVE BEEN APPROVED BY THE SITE CONTRACTOR. THE FIRE PROTECTION CONTRACTOR AND THE FIELD. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE HVAC CONTRACTOR FOR LOCATIONS OF ALL GAS-FIRED EQUIPMENT AND THE GAS CONNECTION LOCATIONS. ANY PLUMBING WORK THAT HAS BEEN INSTALLED AT THE SITE WITHOUT THIS COORDINATION BEING PERFORMED BY THE PLUMBING 25. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL EQUIPMENT REQUIRING PLUMBING CONNECTION. CONTRACTOR WILL RESULT IN PLUMBING WORK BEING REMOVED AND REPLACED BY THE PLUMBING CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. 6. ALL WATER PIPING SHALL BE TESTED FOR COLIFORM BY A LICENSED TESTING LAB. A CERTIFIED REPORT FROM THE LAB SHALL BE SUBMITTED TO THE PLUMBING INSPECTOR FOR REVIEW AND APPROVAL. THIS SHALL BE DONE AND APPROVAL SHALL BE OBTAINED FROM THE INSPECTOR PRIOR TO FINAL ACCEPTANCE OF THE PLUMBING WORK. PLUMBING FIXTURE NOTES THE PLUMBING CONTRACTOR SHALL SUBMIT MANUFACTURERS' SHOP DRAWINGS FOR ALL PROPOSED MATERIAL, VALVE, AND EQUIPMENT PLUMBING FIXTURES ARE TO BE PURCHASED BY THE PLUMBING CONTRACTOR UNDER OWNER/GENERAL CONTRACTOR DIRECTION OR A TO THE PLUMBING ENGINEER FOR APPROVAL. WRITTEN APPROVAL OF ALL PROPOSED MATERIAL, VALVE, AND EQUIPMENT SHALL BE PROVIDED ON THE ARCHITECTURAL SET OF PLANS. PLUMBING CONTRACTOR IS TO COORDINATE WITH MANUFACTURER ON FIXTURE CO RECEIVED FROM THE PLUMBING ENGINEER PRIOR TO THE COMMENCEMENT OF ANY PLUMBING WORK. COMPLIANCE AND MA APPROVAL PRIOR TO PURCHASE. COORDINATE ALL FIXTURE INSTALLATION DIMENSIONS WITH THE DETAILS ON TH ARCHITECTURAL DRAWINGS AND PER MAAB REQUIREMENTS. **DEMOLITION NOTES** ALL PLUMBING FIXTURES, FAUCETS, AND FLUSH VALVES SHALL BE FIELD ADJUSTED TO ENSURE PROPER CODE COMPLIANT OPERATION FOR TEMPERATURE AND FLOW. PLUMBING CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL EXISTING ELEMENTS OF CONSTRUCTION PRIOR TO COMMENCING ALL HANDWASHING FIXTURES SHALL BE FIELD ADJUSTED TO LIMIT THE HOT WATER TEMPERATURE TO 110°F AS REQUIRED. DEMOLITION WORK. ALL WORK SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF MASSACHUSETTS BUILDING CODE, AND HEALTH REGULATIONS AND BE PERFORMED IN SUCH A MANNER AS TO ENSURE HUMAN SAFETY. PROVIDE SERVICE STOPS FOR ALL NEW FIXTURES. ALL EXPOSED WATER & WASTE PIPING ASSOCIATED WITH FIXTURES SHALL BE CHRO ALL ITEMS TO BE RE-USED SHALL BE CAREFULLY REMOVED FREE OF DAMAGE AND STORED IN A SECURE LOCATION. FINISH. PROVIDE ALL SUPPLIES, SERVICE STOPS, TAILPIECES, AND TRAPS FOR FIXTURES AS REQUIRED. PROVIDE ALL FINAL ALL EXISTING PLUMBING PIPING TO BE REMOVED SHALL BE CAPPED AT POINT NEAREST ACTIVE MAIN, OR AT POINT OF ORIGIN. PROVIDE CONCEALED WALL CARRIERS FOR ALL WALL MOUNTED FIXTURES. CARRIERS SHALL BE BY ZURN OR APPROVED EQUAL. ALL DEMOLITION SHALL BE PERFORMED IN SUCH A MANNER AS TO MINIMIZE DAMAGE TO CONSTRUCTION THAT IS TO REMAIN. PROVIDE PRE-MOLDED INSULATION KITS ON ALL WASTE & WATER PIPING, VALVES & FITTINGS DIRECTLY BELOW ACCESSIBLE FIXTURES. INSULATION KIT TO BE BY IPS TRUEBRO. PLUMBING CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGER/OWNER ON SHUTDOWN TIME WHEN WORKING ON EXISTING PLUMBING CONTRACTOR SHALL RECOGNIZE THAT THE BUILDING MIGHT REMAIN OCCUPIED THROUGHOUT DEMOLITION AND SHALL USE EVERY EFFORT AND MEANS POSSIBLE TO MINIMIZE NOISE CAUSED BY THE DEMOLITION OPERATIONS. **BUILDING UTILITY NOTES** REMOVAL OF EXISTING PLUMBING FIXTURES/EQUIPMENT SHALL INCLUDE, BUT NOT LIMITED TO, UTILITY PIPING, FITTINGS, ACCESSORIES AND SUPPORT. REMOVAL, WHERE NECESSARY, SHALL BE COORDINATED WITH OTHER TRADES. THE UNDERGROUND PIPING SHOWN SHALL BE USED FOR GENERAL REFERENCE ONLY AND SHALL NOT BE USED BY THE PLUMBING CONTRACTOR TO INSTALL THE WORK. ALL WORK RELATED TO DEMOLITION SHALL BE CAREFULLY COORDINATED WITH OWNER, ARCHITECT, AND OTHER TRADES. PRIOR TO THE COMMENCEMENT OF ANY WORK AT THE SITE, THE PLUMBING CONTRACTOR SHALL FIELD SURVEY ALL EXISTING CONDITIONS BELOW THE FLOOR AND SHALL DETERMINE THE EXACT ROUTE OF PIPING AND THE LOCATIONS OF ALL DRAINS IN ALL PIPING THAT IS TO BE ABANDONED SHALL BE CAPPED, PLUGGED AND MADE SAFE TO THE APPROVAL OF THE INSPECTOR & CONJUNCTION WITH THE EXISTING BELOW FLOOR OBSTRUCTIONS OWNER/LANDLORD. AL PENETRATIONS THROUGH THE FLOOR AND ALL PIPING THAT WILL BE LOCATED BELOW THE FLOOR SHALL BE CAREFULLY COORDINATED WITH THE OWNER FOR APPROVAL PRIOR TO THE COMMENCEMENT OF INSTALLATIONS **ABBREVIATIONS** THE PLUMBING CONTRACTOR SHALL MAKE ADJUSTMENTS TO THE LOCATIONS AND ROUTING OF DRAINS AND PIPING IN COORDINATION WITH THE EXISTING CONDITIONS AT THE SITE

ARCH ARCHITECT

CLG CEILING

CO CLEANOUT

DWG DRAWING

ELEC ELECTRICAL

CONN CONNECTION

CONT CONTINUATION

AFF ABOVE FINISHED FLOOR BWV BACKWATER VALVE

CFH CUBIC FEET PER HOUR

CTE CONNECT TO EXISTING

EC ELECTRICAL CONTRACTOR

ETBR EXISTING TO BE REMOVED

FINISHED FLOOR ELEVATION

GENERAL CONTRACTOR

GREASE INTERCEPTOR GALLON PER FLUSH GPM GALLON PER MINUTE GWH GAS-FIRED WATER HEATER

ETR EXISTING TO REMAIN

FCO FLOOR CLEANOUT

FOOT/FEET

FLOOR DRAIN

DF DRINKING FOUNTAIN

HB HOSE BIBB

LAV. LAVATORY

MAX

NIC

OED

INV. EL INVERT ELEVATION

MINIMUM

MAXIMUM

LPC LIMIT OF PLUMBING CONTRACT

NOT IN CONTRACT

OPEN-END DRAIN

P-# PLUMBING FIXTURE DESIGNATION

PLUMBING CONTRACTOR

NOT TO SCALE

ROOF DRAIN

SI SOLIDS INTERCEPTOR

TRAP PRIMER

SHOWER

TYPICAL

VTR VENT THRU ROOF

WC WATER CLOSET

WH WALL HYDRANT

GENERAL NOTES	P	LUMBING LEGEND
ALL PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE MASSACHUSETTS STATE PLUMBING CODE, LATEST EDITION.		HW, HOT WATER
CAREFULLY COORDINATE LOCATION OF PIPING WITH ALL OTHER TRADES.		HWR, HOT WATER RETURN
ALL PIPING SHOWN DIAGRAMMATICALLY AND EXACT LOCATION SHALL BE DETERMINED IN THE FIELD.		CW, COLD WATER BELOW FLOOR
		HW. HOT WATER BELOW FLOOR
ALL PIPING SHALL BE RUN CONCEALED ABOVE CEILINGS, IN WALLS AND IN CHASES, UNLESS OTHERWISE NOTED.		,
NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT THE APPROVAL OF THE STRUCTURE ENGINEER.		HWR, HOT WATER RETURN BELOW FLOOR
ALL PIPING SHALL BE SUPPORTED FROM BUILDING STRUCTURE.	140°F	140°F HOT WATER
THE TERM "PROVIDE" SHALL MEAN FURNISH AND INSTALL.	140°F	140°F HOT WATER RETURN
RUN WATER PIPE ON THE WARM SIDE OF BUILDING INSULATION. NO WATER PIPING SHALL BE RUN ON EXTERIOR WALLS.	NPCW	NPCW, NON-POTABLE COLD WATER
PROVIDE DRAWOFFS WITH BALL VALVE, HOSE END VACUUM BREAKER, CAP & CHAIN AT ALL DOMESTIC WATER LOW POINTS AND PITCH	NPHW -	NPHW, NON-POTABLE HOT WATER
PIPING TO DRAIN.	TW	TW, TEMPERED WATER
ALL SANITARY WASTE PIPING SHALL PITCH A MIN OF ⅓" PER FT. FOR PIPING 4" & LARGER, AND ⅙" PER FT FOR PIPING UP TO 3".	TWR	TWR, TEMPERED WATER RETURN
PROVIDE SHOCK ABSORBERS ON ALL PIPING SERVICING FLUSH VALVE FIXTURES.		SAN, SANITARY WASTE
. ALL PIPING SHALL BE NEW, INSTALLED PARALLEL TO BUILDING LINES AND PITCHED TO LOW POINTS.		SAN, SANITARY WASTE BELOW FLOOR
PLUMBING CONTRACTOR SHALL PROVIDE FIRESTOPPING FOR ALL PENETRATIONS THRU FIRE WALLS AND FIRE RATED SEPARATIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR THESE AREAS.	IW	IW, INDIRECT WASTE
PLUMBING CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL SCAFFOLDING, HOISTING EQUIPMENT DERRICKS, ETC., NECESSARY		KW, KITCHEN WASTE
FOR INSTALLATION OF WORK	KW	KW, KITCHEN WASTE BELOW FLOOR
ALL PLUMBING PIPING AND DRAINS SHALL BE KEPT CLEAR OF BLOCKAGE WHILE CONSTRUCTION IS UNDERWAY. ALL PLUMBING PIPING SHALL BE DEBURRED BEFORE JOINTS ARE MADE	LW	LW, LAB WASTE
THE PLUMBING CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING IN ORDER TO ACCOMMODATE THE PLUMBING WORK	LW	LW, LAB WASTE BELOW FLOOR
WHERE PLUMBING DROPS ONLY ARE SHOWN TO FIXTURES OR GROUPS OF FIXTURES, THE PLUMBING CONTRACTOR SHALL MAKE ALL	CD	CD, CONDENSATE DRAIN
FINAL CONNECTIONS OF WATER, SANITARY AND VENT TO EACH FIXTURE. PLUMBING CONNECTIONS TO FIXTURES SHALL BE IN ACCORDANCE WITH THE PLUMBING FIXTURE SCHEDULE. PROVIDE SERVICE STOP AT EACH FIXTURE		ORL, OVERFLOW ROOF DRAIN
ALL ISOLATION VALVES AND BUTTERFLY VALVES INSTALLED IN WALLS OR ABOVE CEILINGS SHALL BE PROVIDED WITH ACCESS PANELS.	GD	GD, GARAGE DRAIN
WHERE REMOVABLE SUSPENDED CEILING TILES ARE USED, NO ACCESS PANELS ARE REQUIRED.	GD	GD, GARAGE DRAIN BELOW FLOOR
ALL PIPING RISER PENETRATIONS THRU FLOORS SHALL BE SEALED WATER TIGHT		V, VENT
ALL EXISTING CONDITIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT INTENDED TO SHOW EXACT EXISTING CONDITIONS, ALL EXISTING CONDITIONS SHALL BE VERIFIED BY THE PLUMBING CONTRACTOR IN THE FIELD. ALL POINTS OF CONNECTION TO EXISTING	 -==========	V, VENT BELOW FLOOR
SYSTEMS SHALL BE DETERMINED IN THE FIELD BY THE PLUMBING CONTRACTOR.		GV, GARAGE VENT
PRIOR TO BID, THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL ASPECTS OF THE WORK AND ALL CONDITIONS TO WHICH THE WORK WILL BE INSTALLED. ANY DISCREPANCY BETWEEN THE WORK SHOWN ON THE DRAWINGS AND ANY CONDITIONS, EXISTING OR PROPOSED, SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING, FAILURE OF THE CONTRACTOR TO		GV, GARAGE VENT BELOW FLOOR
FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS AND THEIR RELATION TO THE NEW WORK AND FAILURE TO SUBMIT DISCREPANCIES IN WRITING TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY PLUMBING WORK SHALL NOT BE ACCEPTED AS A		G. NATURAL GAS LINE
CAUSE FOR ANY EXTRA CHARGE TO THE CONTRACT.	TD	TP. TRAP PRIMER SUPPLY
. CONTRACTOR SHALL COORDINATE ALL SHUT DOWNS OF EXISTING SYSTEMS WITH OWNER. ALL SHUT DOWNS SHALL BE PERFORMED AS REQUESTED BY OWNER. NO SHUT DOWNS SHALL BE PERFORMED DURING NORMAL BUSINESS UNLESS AUTHORIZED BY OWNER	IP——IP	,
	TP=	TP, TRAP PRIMER SUPPLY BELOW FLOOR
BUILDING UTILITY NOTES		EX, EXISTING PIPING
ALL UNDERGROUND SANITARY, STORM, DOMESTIC WATER & FIRE PROTECTION LOCATIONS MAY VARY FROM WHERE SHOWN ON		ETBR, EXISTING TO BE REMOVED
DRAWINGS WITH THE ACTUAL BUILDING. THE LOCATIONS SHOWN ON THE PLUMBING DRAWINGS ARE INTENDED TO SHOW APPROXIMATE LOCATIONS ONLY AND ARE NOT INTENDED TO BE USED FOR THE BUILDING AT THE SITE, THE PLUMBING CONTRACTOR SHALL CAREFULLY	✓	HTI, HEAT TRACE
COORDINATE THE LOCATIONS AND SIZES OF ALL UNDERGROUND SANITARY, STORM, DOMESTIC WATER, PROPANE AND FIRE PROTECTION MAINS THAT ENTER AND EXIT THE BUILDING WITH THE CIVIL DRAWINGS, THE SITE CONTRACTOR, THE FIRE PROTECTION CONTRACTOR		FCO, FLOOR CLEANOUT
COORDINATE THE LOCATIONS AND SIZES OF ALL UNDERGROUND SANITARY, STORM, DOMESTIC WATER, PROPANE AND FIRE PROTECTION		FCO, FLOOR CLEANOUT GCO, GRADE CLEANOUT
COORDINATE THE LOCATIONS AND SIZES OF ALL UNDERGROUND SANITARY, STORM, DOMESTIC WATER, PROPANE AND FIRE PROTECTION MAINS THAT ENTER AND EXIT THE BUILDING WITH THE CIVIL DRAWINGS, THE SITE CONTRACTOR, THE FIRE PROTECTION CONTRACTOR AND THE ARCHITECT IN ORDER TO ESTABLISH EXACT LOCATIONS AND INVERT ELEVATIONS FOR THE BUILDING AT THE SITE. NO WORK SHOWN ON THE PLUMBING DRAWINGS SHALL BE INSTALLED UNTIL THIS COORDINATION HAS BEEN COMPLETED AND EXACT LOCATIONS,		,
COORDINATE THE LOCATIONS AND SIZES OF ALL UNDERGROUND SANITARY, STORM, DOMESTIC WATER, PROPANE AND FIRE PROTECTION MAINS THAT ENTER AND EXIT THE BUILDING WITH THE CIVIL DRAWINGS, THE SITE CONTRACTOR, THE FIRE PROTECTION CONTRACTOR AND THE ARCHITECT IN ORDER TO ESTABLISH EXACT LOCATIONS AND INVERT ELEVATIONS FOR THE BUILDING AT THE SITE. NO WORK SHOWN ON THE PLUMBING DRAWINGS SHALL BE INSTALLED UNTIL THIS COORDINATION HAS BEEN COMPLETED AND EXACT LOCATIONS, SIZES AND INVERT ELEVATIONS HAVE BEEN APPROVED BY THE SITE CONTRACTOR, THE FIRE PROTECTION CONTRACTOR AND THE		GCO, GRADE CLEANOUT
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COORDINATE THE LOCATIONS AND SIZES OF ALL UNDERGROUND SANITARY, STORM, DOMESTIC WATER, PROPANE AND FIRE PROTECTION MAINS THAT ENTER AND EXIT THE BUILDING WITH THE CIVIL DRAWINGS, THE SITE CONTRACTOR, THE FIRE PROTECTION CONTRACTOR AND THE ARCHITECT IN ORDER TO ESTABLISH EXACT LOCATIONS AND INVERT ELEVATIONS FOR THE BUILDING AT THE SITE. NO WORK SHOWN ON THE PLUMBING DRAWINGS SHALL BE INSTALLED UNTIL THIS COORDINATION HAS BEEN COMPLETED AND EXACT LOCATIONS, SIZES AND INVERT ELEVATIONS HAVE BEEN APPROVED BY THE SITE CONTRACTOR, THE FIRE PROTECTION CONTRACTOR AND THE ARCHITECT. ANY PLUMBING WORK THAT HAS BEEN INSTALLED AT THE SITE WITHOUT THIS COORDINATION BEING PERFORMED BY THE PLUMBING CONTRACTOR WILL RESULT IN PLUMBING WORK BEING REMOVED AND REPLACED BY THE PLUMBING CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.		GCO, GRADE CLEANOUT CO, CLEANOUT WCO, WALL CLEANOUT- PROVIDE ACCESS PANEL
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BID SET SUBMISSION



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GE ARA.

DATE November 10, 2021 SCALE

AS NOTED

DRAWN BY / CHECKED BY MM / MD

PROJECT NO 2021003

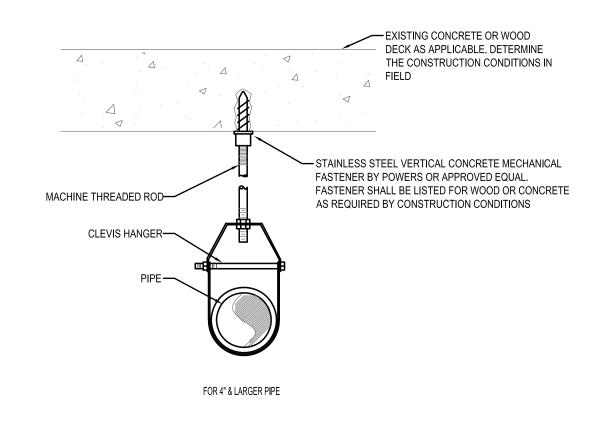
DRAWING NO

							(In) NP	CW NPI	IMS WI	SAN					FITTINGS				
TAG NO	TYPE	MANUFACTURER	MODEL	SIZE	CW	in) HW	(in) (ii	n) (ir		in)	V (in)	FLOW RATE	SUPPLIES	TYPE	MANUFACTURER	MODEL	TRAP	CARRIER	REMARKS
P-1	WATER CLOSET	тото	CT 705 ELN	-	1"	-		. .		4"	2"	1.0 GPF	FLUSH VALVE	SELF-GENERATING, SENSOR-OPERATED	тото	TET1LA32#CP	INTEGRAL	FLOOR MOUNTED	PROVIDE TOILET FLANGE, WAX RING AND TOILET FLANGE BOLTS. WAX RING AND BOLT SET AS MANUFACTURED BY HARVEY MFG. PROVIDE SOFT CLOSE SEAT.
P-2	LAVATORY	тото	LT 546	19" X 13"	1/2	1/2	"			2"	2"	0.5 GPM	½"SWEAT X ¾"COMP. EQUAL TO MCGUIRE LFH170LK	SELF-GENERATING, SENSOR-OPERATED	тото	TEL105-C20ET	1 ¼" x 1 ½" 17GA CAST BRASS CHROME PLATED P-TRAP W/ CO PLUG, EQUAL TO MCGUIRE B8902	UNDERMOUNTED	PROVIDE 0.5 GPM FLOW RESTRICTOR. WATER SUPPLY TO FAUCET SHALL NOT EXCEED 110°F
P-3	MOP SINK	FIAT	MSB2424	24"X24"10"	1/2	1/2	" -			3"	2"	-	½" CW & HW	WALL-MOUNTED	SPEAKMAN	SC-5811-CK-RCP	STAINLESS STEEL DRAIN BODY W/ 3" P-TRAP	FLOOR MOUNTED	PROVIDE FAUCET W/ CHECK VALVES, ROUGH CHROME PLATED FINISH. PROVIDE HOSE & HOSE BRACKET FIAT MODEL 832-AA, AND MOP HANGER FIAT MODEL 889-CC. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS.

TAG NO	TYPE	MANUFACTURER	MODEL	STRAINER	REMARKS
FD-A	FLOOR	J.R SMITH	2010C-P050	6"NB	LOCATED BATHROOMS. PROVIDE WITH TRAF

					MAT	ERIAL	SPECI	FICAT	ION		
	SERV	CAST IRON - HUB & SPIGOT PIPE	CAST IRON - HUBLESS (NO-HUB) PIPE	COPPER DWV PIPE	CPVC SCH80	BLACK STEEL SCH40 PIPE	MEDICAL GAS TUBE TYPE L COPPER PIPE	WATER TUBE TYPE L COPPER PIPE	WATER TUBE TYPE L COPPER PIPE	REMARKS	
-	DOMESTIC WATER PIPING	ABOVE GROUND									W/ 1" FIBERGLASS INSULATION
	DOMESTIC WATER PIPING	BELOW GROUND									W/ 1" FIBERGLASS INSULATION
_	INDIRECT WASTE	ABOVE GROUND									
	VACUUM	ABOVE GROUND									
	COMPRESSED AIR	ABOVE GROUND									
	SANITARY WASTE	ABOVE GROUND									
	SANITARY VENT	ABOVE GROUND									
	NATURAL GAS	ABOVE GROUND									
		WATER HA	AMMER SC	CHEDULE							

TAG NO	FIXTURE UNIT RATING	MANUFACTURER	MODEL
SA'A'	1-11	J.R. SMITH	5005
SA'B'	12-32	J.R. SMITH	5010
SA'C'	33-60	J.R. SMITH	5020
SA'D'	61-113	J.R. SMITH	5030
SA'E'	114-154	J.R. SMITH	5040
SA'F'	155-330	J.R. SMITH	5050



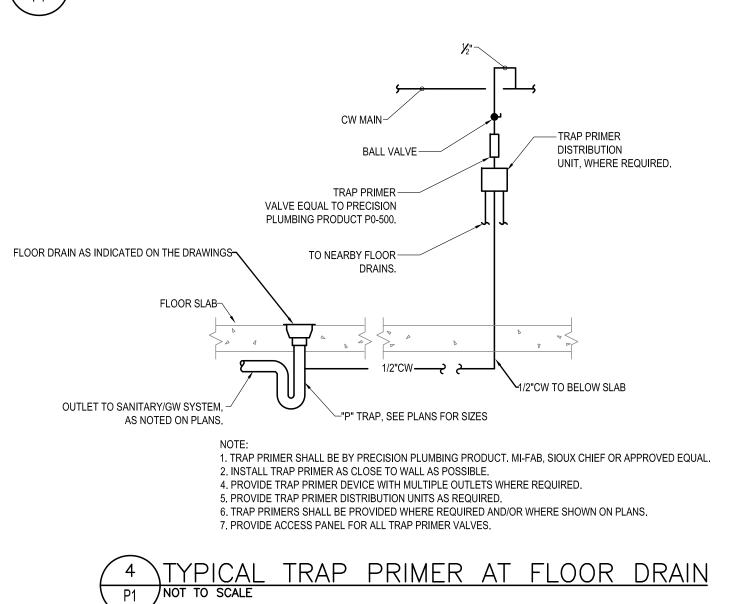
NOTES:

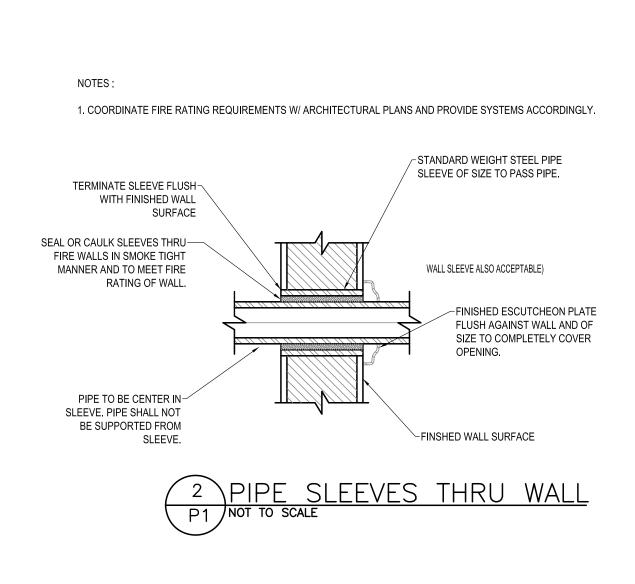
1. PIPE HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES MANNER AS TO ALLOW FOR THE COMPLETE DRAINING OF THE WATER MAINS

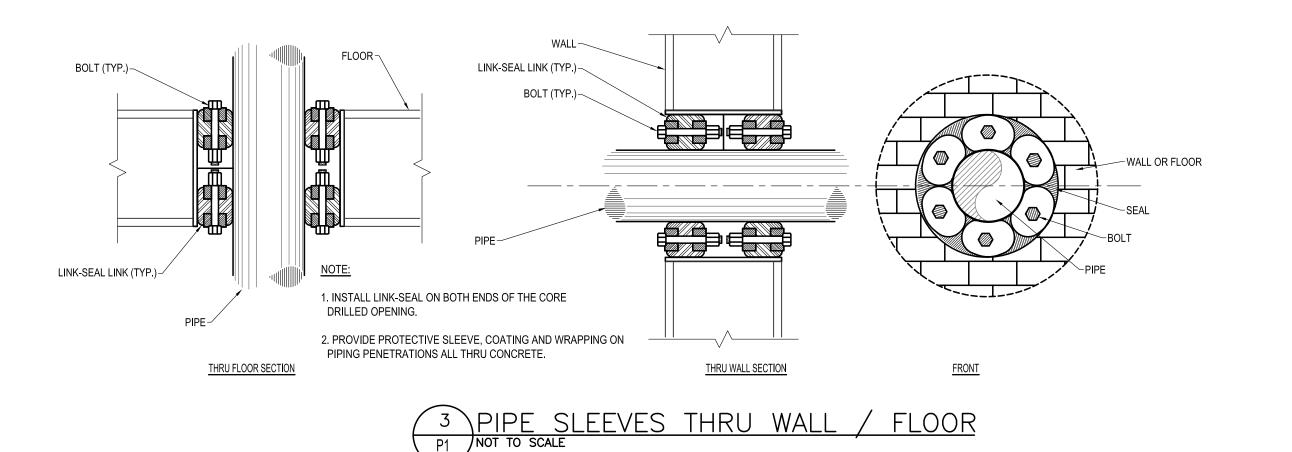
2. INSTALL HANGERS SHALL BE INSTALLED AT 10 FOOT INTERVALS, AT EVERY CHANGE OF DIRECTION AND ON EACH SIDE OF CONTROL VALVES

3. ROD FASTENERS SHALL BE UL LISTED FOR THE PIPE SIZE BEING SUPPORTED AND FOR THE TYPE OF CONSTRUCTION BEING FASTENED TO.









SOUTH S

BID SET SUBMISSION

DESCRIPTION	PROGRESS SET	BID SET			
ВҮ	ВҮ	ВҮ			
DATE	06/14/2021	11/10/2021			
ON	-	-			



FIRST FLOOR PUBLIC 1
HARBOR GARAGE
245 DERBY STREET DATE

November 10, 2021 SCALE **AS NOTED**

DRAWN BY / CHECKED BY MM / MD

PROJECT NO 2021003

DRAWING NO

P

