

ADDENDUM NO. 3
HGTC CONSTRUCTION OF
GT WORKFORCE TRAINING CENTER
GEORGETOWN, SOUTH CAROLINA
STATE PROJECT NUMBER H59-6255-CB
PMH | CROFT PROJECT NO. 23041
September 15, 2025

NOTE: ADDENDUM NO. 3 IS BEING PUBLISHED ON THE OWNER'S WEBSITE FOR DISTRIBUTION. IT IS THE GENERAL CONTRACTORS RESPONSIBILITY FOR COMMUNICATION OF THE ITEMS CONTAINED WITHIN THIS ADDENDUM TO APPROPRIATE SUB-CONTRACTORS.

THIS ADDENDUM CONTAINS:

- TWO (2) PAGES OF WRITTEN ADDENDUM
- ONE (1) FULL SIZE DRAWINGS

CLARIFICATIONS

1. For Clarification: Answers to questions Q4, Q46 and Q47 from Addendum #2 are being revised below.

QUESTIONS AND ANSWERS

THE FOLLOWING ARE REVISED ANSWERS:

Q4. I'M FOLLOWING UP FROM THE VOICEMAIL I LEFT YOU TO SEE ABOUT THE STRUCTURED CABLING PORTION OF THE PROJECT. WILL THIS WORK BE UNDER YOU OR BY OWNER?

A4. Cabling will NOT be by Owner.

Q46. DOES THE COLLEGE HAVE A PREFERRED VENDER FOR BAS?

A46. Yes. The Vendor is Control Management, Inc. (CMI) per Specification Section 230900.

Q47. IS DAS STRUCTURED CABLING AND SECURITY CABLING TO BE HANDLED BY OWNER? IS THERE A RELEVANT CONTACT FOR HGTC?

A47. The DAS Structured Cabling and Security Cabling will not be handled by Owner. No there is no information for HGTC contact at this time. This is also included on Sheet E001.

THE FOLLOWING IS A NEW QUESTION:

Q61. IF YOU ALL GET A CHANCE TO CLARIFY THE TRENCH DRAIN. THE PLUMBING ENGINEER CALLED OUT A ZURN Z664 TRENCH DRAIN WHICH IS A 12" SECTION AND APPARENTLY CAN BE ADDED TO IN 1' INCREMENTS. THIS WILL END UP BEING A VERY EXPENSIVE ITEM IF IT WORKS AT ALL. GENERALLY WE SEE TRENCH DRAIN SECTIONS IN 8' TO 10' SECTIONS IN THESE TYPE OF SITUATIONS. ONE OF THE PLUMBERS INDICATED THAT Z886 MIGHT BE A BETTER FIT, BUT I DON'T THINK IT IS TRAFFIC RATED LIKE THE ORIGINAL ONE SPECIFIED.

A61. See revised sheet P001 attached to this addendum and referenced below.

DRAWINGS

1. SHEET P001 – PLUMBING SCHEDULES, NOTES AND LEGENDS
 - A. Contractor's attention is directed to SHEET P001 – PLUMBING SCHEDULES, NOTES AND LEGENDS. Contractor is advised to omit this sheet in its entirety and replace with SHEET P001 – PLUMBING SCHEDULES, NOTES AND LEGENDS (attached herewith) consisting of 1 page date 09-15-2025 for the revision of the Model # for Mark 'TD' under the Plumbing Fixture Schedule.

END OF ADDENDUM NO. 3

THIS SHEET PLOTS ON 22" X 34" ANSI D

3'
2"
1"
0
1/2"

S
R
Q
P
O
N
M
L
K
J
I
H
G
F
E
D
C
B
A

12345678910111213141516171819202122232425

PLUMBING SYSTEMS
SEISMIC AND WIND REQUIREMENTS
PER IBC-2021/ASCE 7-16

A. PER THE 2021 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7.

B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTER 26 TO 29 OF ASCE 7.

C. WHERE DESIGN FOR SEISMIC AND WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.

D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.

E. USE THE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.

F. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL REGISTERED IN THE STATE THE JOB IS LOCATED. SUBMITTALS MUST INCLUDE STAMPED AND SIGNED DRAWINGS AND CALCULATIONS.

G. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.

H. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAYS AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

PLUMBING COMPONENT IMPORTANCE FACTOR (Ip) DESIGNATION

Ip = 1.0

Ip = 1.5

ALL PLUMBING COMPONENTS EXCEPT AS LISTED UNDER Ip = 1.5

NATURAL GAS PIPING & APPURTENANCES

SEISMIC DESIGN CATEGORIES D,E,F

COMPONENT IMPORTANCE FACTOR (Ip)

1.0

1.5

COMPONENT IDENTIFICATION

SEISMIC RESTRAINT REQUIREMENT

NOTES

SEISMIC RESTRAINT REQUIREMENT

NOTES

ROOF MOUNTED

RESTRAIN ALL

1

RESTRAIN ALL

-

FLOOR MOUNTED

RESTRAIN ALL

1, 2

RESTRAIN ALL

-

WALL MOUNTED

RESTRAIN ALL

1, 2

RESTRAIN ALL

-

COMPONENT SUPPORTS

RESTRAIN ALL

1

RESTRAIN ALL

-

SUSPENDED EQUIPMENT

RESTRAIN ALL

3

RESTRAIN ALL

3

SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)

>3"

4

>1"

4

SUSPENDED NON DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC)

RESTRAIN ALL

4

RESTRAIN ALL

4

SUSPENDED PIPE ON TRAPEZE

RESTRAIN IF ANY PIPE ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10

4

RESTRAIN IF ANY PIPE ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10

4

COMPONENT CERTIFICATION (SEE NOTE 6)

NOT REQUIRED

5

REQUIRED

5

NOTES:

1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER OF MASS LOCATED AT 4 FT. OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

3. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.

4. RESTRAINT IS NOT REQUIRED IF THE PIPING / DUCTWORK IS SUPPORTED BY HANGERS AND EACH HANGER IN THE PIPING RUN IS 12 IN. OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12 IN. OR LESS. WHERE ROD HANGERS ARE USED, THEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS OR OTHER DEVICES TO PREVENT BENDING IN THE ROD.

5. ALL DUCTWORK, REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.

6. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD.

GENERAL PLUMBING NOTES

1. PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR A COMPLETE PLUMBING SYSTEM. DO NOT SCALE DRAWINGS. OBTAIN ROUGH-IN DIMENSIONS FROM ARCHITECTURAL DRAWINGS OR FROM MANUFACTURERS PRINTED INSTRUCTIONS AND RECOMMENDATIONS ONLY.

2. COORDINATE PLUMBING SYSTEMS WITH ALL TRADES TO AVOID CONFLICTS PRIOR TO INSTALLATION OF PLUMBING COMPONENTS.

3. WHENEVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY FOR USE.

4. UNLESS OTHERWISE SHOWN OR NOTED, ALL PIPING SHALL BE RUN CONCEALED IN WALLS, CHASES AND/OR ABOVE CEILINGS.

5. ALL SUSPENDED PIPING SHALL BE SUPPORTED FROM BUILDING STRUCTURAL MEMBERS. IN NO CASE SHALL PIPING BE SUSPENDED FROM FLOOR OR ROOF DECK.

6. WHERE PIPES PENETRATE FIRE RATED ASSEMBLIES, SEAL OPENING AROUND PIPES WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN THE FIRE RATING OF THE ASSEMBLY.

7. PROVIDE INSULATION FOR PIPING COLLECTING CONDENSATE DRAIN.

8. PROVIDE HANGERS AND SUPPORTS WITHIN 12" OF EACH HORIZONTAL ELBOW FOR SANITARY AND VENT PIPING.

9. PROVIDE A TEMPERATURE LIMITING DEVICE CONFORMING TO ASSE 1070 AT EACH LAVATORY, HAND WASHING SINK, OR ANY FIXTURE WITH A SENSOR FAUCET TO DELIVER 105°F WATER, UNLESS OTHERWISE NOTED. PROVIDE WATTS LFJUS-G FOR INDIVIDUAL LAVATORIES OR WATTS LFMMV FOR GROUPS OF LAVATORIES, OR APPROVED EQUALS.

PLUMBING CODES AND STANDARDS
(WITH ALL SOUTH CAROLINA MODIFICATIONS)

CODE

DESCRIPTION

IBC (2021)

INTERNATIONAL BUILDING CODE

IECC (2009)

INTERNATIONAL ENERGY CONSERVATION CODE

IFGC (2021)

INTERNATIONAL FUEL GAS CODE

IPC (2021)

INTERNATIONAL PLUMBING CODE

PLUMBING ABBREVIATIONS

ABBR

DESCRIPTION

A/C

ABOVE CEILING

AFF

ABOVE FINISHED FLOOR

AFG

ABOVE FINISHED GRADE

BFP

BACKFLOW PREVENTER

C

DOMESTIC COLD WATER SUPPLY

CFM

CUBIC FEET PER MINUTE

CV

CONCENTRIC VENT

DIA

DIAMETER

DS

DRY TYPE FIRE SPRINKLER PIPING

F/A

FROM ABOVE

FCO

FLOOR CLEANOUT

FT

FEET

G

GREASE/KITCHEN WASTE

GPF

GALLON PER FLUSH

GPH

GALLONS PER HOUR

GPM

GALLONS PER MINUTE

H

DOMESTIC HOT WATER SUPPLY

HA

HAMMER ARRESTOR

HB

HOSE BIBB

HCP

HOT WATER RECIRCULATING PUMP

HR

DOMESTIC HOT WATER RETURN

IN WG

INCHES WATER GAUGE

OF

SECONDARY STORM

OFO

OVERFLOW OUTLET

P

PROPANE

PC

PLUMBING CONTRACTOR

S

SANITARY/WASTE PIPING

ST

STORM

TP

TRAP PRIMER

U/G

UNDERGROUND

UNO

UNLESS NOTED OTHERWISE

V

VENT PIPING

VAC

VACUUM

VTR

VENT THRU ROOF

WCO

WALL CLEANOUT

WH

WATER HEATER

PLUMBING SYMBOL LEGEND

SYMBOL

DESCRIPTION

SYMBOL

DESCRIPTION

[BFP]

BACKFLOW PREVENTER

[Symbol]

CONNECTION TO EXISTING SYSTEM

[Symbol]

FLOW CONTROL

[Symbol]

CONTROL VALVE

[Symbol]

PRESSURE REDUCING VALVE

[Symbol]

BALANCING VALVE

[Symbol]

SWING CHECK VALVE

[Symbol]

ISOLATION VALVE

[Symbol]

PLUG VALVE

[Symbol]

SOLENOID VALVE

[Symbol]

PIPE UP

[Symbol]

PIPE DOWN

[Symbol]

PIPE REDUCER

[Symbol]

PIPE STRAIGHT TEE

[Symbol]

PIPE TEE DOWN

[Symbol]

FLOOR CLEANOUT

[Symbol]

HOSE BIBB - INTERIOR, EXTERIOR

[Symbol]

FLOOR DRAIN WITH FLOOR SLOPED TO DRAIN

[Symbol]

VENT THRU ROOF

[Symbol]

TRAP PRIMER

PLUMBING PIPING LEGEND

—————

SANITARY AND WASTE PIPING

VENT PIPING

———— —

DOMESTIC COLD WATER PIPING

———— — — —

DOMESTIC HOT/TEMPERED WATER PIPING

———— — — — —

DOMESTIC HOT/TEMPERED WATER RETURN PIPING

— · — · —

NATURAL GAS PIPING

—————

STORM PIPING

—————

SECONDARY STORM PIPING

HAMMER ARRESTOR SCHEDULE

UNIT I.D.

PDI UNIT

FIXTURE UNIT

MANUFACTURER

HA

A

1-11

JOSAM 75000 OR EQUIVALENT ZURN, SMITH

HA

B

12-32

JOSAM 75000 OR EQUIVALENT ZURN, SMITH

HA

C

33-60

JOSAM 75000 OR EQUIVALENT ZURN, SMITH

HA

D

61-113

JOSAM 75000 OR EQUIVALENT ZURN, SMITH

HA

E

114-154

JOSAM 75000 OR EQUIVALENT ZURN, SMITH

PLUMBING FIXTURE SCHEDULE

MARK

FIXTURE TYPE

HOT WATER

COLD WATER

WASTE

VENT

BASIS OF DESIGN

MODEL

FD

FLOOR DRAIN

1/2" (TP)

3"

2"

ZURN

Z415

P-1

FLOOR MOUNTED WATER CLOSET - BATTERY-POWERED SENSOR FLUSH VALVE - 1.28 GPF

1-1/2"

4"

2"

SLOAN

WETS-2000.1420

P-1A

FLOOR MOUNTED WATER CLOSET - ADA BATTERY-POWERED SENSOR FLUSH VALVE - 1.28 GPF

1-1/2"

4"

2"

SLOAN

WETS-2020.1420

P-2

WALL-HUNG URINAL - BATTERY-POWERED SENSOR FLUSH VALVE - 0.5 GPF

3/4"

2"

1-1/2"

SLOAN

WEUS-1005.1423

P-3

UNDERMOUNT LAVATORY - BATTERY-POWERED SENSOR OPERATION - 0.5 GPM

1/2"

1/2"

1-1/2"

1-1/2"

SLOAN BASIN SLOAN FAUCET

SS-3021 EBF-415-BAT-BDT-CP-0.5GPM-MLM-BAA-FCT

P-4

WALL-MOUNTED LAVATORY - BATTERY-POWERED SENSOR OPERATION - 0.5 GPM

1/2"

1/2"

1-1/2"

1-1/2"

SLOAN BASIN SLOAN FAUCET

SS-3106 EBF-415-BAT-BDT-CP-0.5GPM-MLM-BAA-FCT

P-5

BREAK ROOM SINK - 0.5 GPM

1/2"

1/2"

2"

1-1/2"

ELKAY SINK KOHLER FAUCET

ELUH2115PD K-7505-CP

P-6

WASH BASIN

1/2"

1/2"

2"

1-1/2"

ELKAY

EWSF39026SACC

P-7

EMERGENCY SHOWER/EYE/FACE WASH

3/4"

3/4"

2"

1-1/2"

BRADLEY

S19314

P-8

ELETRIC WATER COOLER AND BOTLE FILLING STATION

1/2"

1-1/2"

1-1/2"

ELKAY

LZSTLBWSLK

P-9

MOP SINK

1/2"

1/2"

3"

2"

FIAT BASIN CHICAGO FAUCET

TSB200 897-CCP

P-10

NON-FREEZE ROOF HYDRANT

1"

WOODFORD

SRH-MS

P-11

NON-FREEZE WALL HYDRANT

3/4"

ZURN

Z1321XL

P-12

INTERIOR HOSE BIB

3/4"

ZURN

Z1341XL

RD/OD

ROOF DRAIN

4"

ZURN

Z163

TD

TRENCH DRAIN - HEEL-PROOF DUCTILE SLOTTED GRATE, CLASS E

4"

ZURN

2886-HD-HPDE

NOTES:

1. PROVIDE ANGLE STOPS VALVES, SUPPLY TUBING, GRID STRAINERS, ADA OFFSET DRAINS, REMOVABLE P-TRAPS, ESCUTCHEON PLATES, DECK PLATES, CARRIERS, ADA LAVATORY SHIELD COVERS, ETC. FOR A COMPLETE INSTALLATION.

2. PROVIDE ALL REQUIRED ACCESSORIES AND OPTIONS FOR COMPLETE DRAIN INSTALLATIONS. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION ON FLOOR AND ROOF CONSTRUCTION.

3. COORDINATE HEIGHT OF FLUSH VALVES AND SUPPLIES THROUGH WALL WITH ADA GRAB BARS PRIOR TO ORDERING. LOCATE FLUSH HANDLE OR MECHANICAL OVERRIDE ON ADA APPROACH SIDE.

4. COORDINATE ROUGH-IN LOCATIONS WITH BASEBOARD SO THAT THE ROUGH-IN AND ESCUTCHEON IS ABOVE THE BASEBOARD WITHOUT CONFLICT.

5. SEE ARCHITECTURAL PLANS FOR HEIGHT AND EXACT LOCATION OF FIXTURES.

6. WATER CLOSETS, URINALS, LAVATORY FAUCETS, AND SINK FAUCET SHALL BE WATERSENSE CERTIFIED.

7. HOT WATER RE-CIRCULATION LINES SHALL BE CONNECTED TO WITHIN 6" OF FIXTURE HOT WATER SUPPLY CONNECTION TO FIXTURES TO MEET GREEN GLOBES REQUIREMENT. WHIPS TO FIXTURES SHALL BE LIMITED TO 6" AND RECIRCULATION CONNECTION SHALL BE DIRECTLY BEHIND ANGLE SUPPLY SHUT-OFFS.

8. ALL FIXTURES SHALL BE WATERSENSE COMPLIANT.

ELECTRIC WATER HEATER SCHEDULE

MARK

STORAGE (GALLONS)

INPUT CAPACITY (kW)

RECOVERY @ 100°F (GPH)

FUEL

BASIS OF DESIGN

MODEL

WH-1

119

24

98

ELEC.

A. O. Smith

DRE-120

NOTES:

1. REFER TO ELECTRICAL DRAWINGS FOR VOLTAGE REQUIREMENTS.

2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

3. PROVIDE WITH EXPANSION TANK AND DRAIN PAN. REFER TO DETAIL FOR ADDITIONAL INFORMATION.

HOT WATER RECIRCULATING PUMP

MARK

MOTOR SIZE

RATED SPEED RPM

TYPE

BASIS OF DESIGN

MODEL

HCP-1

0.125 hp

3250

ECM CIRCULATOR

XYLEM/BELL & GOSSETT

ECOCIRC XL

NOTES:

1. REFER TO ELECTRICAL DRAWINGS FOR VOLTAGE REQUIREMENTS.

2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

3. PROVIDE WITH ADJUSTABLE AQUASTAT AND TIMER. REFER TO DETAIL FOR ADDITIONAL INFORMATION.

Autodesk Docs/2024-202 HGTC GT Workforce Training Center/23261-00 HGTC GT Workforce Training Center MEP_2024.rvt

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KEY PLAN

2

2025-09-15

BID ADDENDUM #3

1

2025-09-09

BID ADDENDUM #2

0

2025-05-19

OSE COMMENTS

8

2025-03-21

CONSTRUCTION DOCUMENTS

A

2024-12-13

DESIGN DEVELOPMENT

NO.

DATE

DESCRIPTION

ISSUANCE

PROJECT NUMBER

2024-202

DRAWN: KMM

CHECKED: WDB

SHEET TITLE

PLUMBING SCHEDULES, NOTES & LEGENDS

SHEET NO.

P001