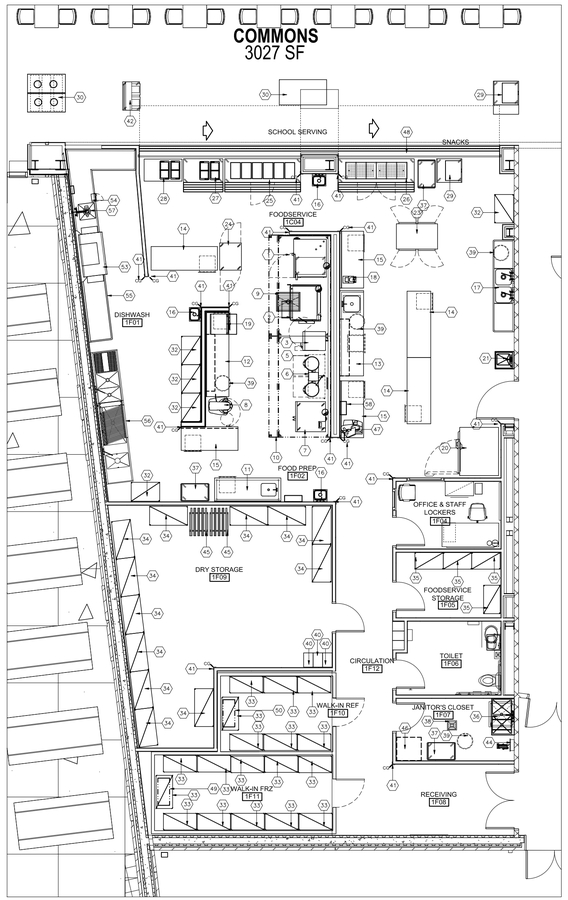
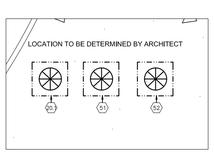



## FIRST FLOOR FOODSERVICE EQUIPMENT PLAN

01 / QF110 1/8" = 1'-0" SCALE

1/8"=1'-0" 4' 2' 0 4' 8'

GRAPHIC SCALE




## FIRST FLOOR FOODSERVICE EQUIPMENT PLAN

02 / QF110 1/8" = 1'-0" SCALE

1/8"=1'-0" 4' 2' 0 4' 8'

GRAPHIC SCALE

**EQUIPMENT LIST**

| ITEM NO. | QTY. | DESCRIPTION | REMARKS |
|---|---|---|---|
| 1 | 1 | COMBI OVEN | |
| 2 | 1 | BRAISING PAN | |
| 3 | 1 | BOILERLESS STEAMER | |
| 4 | - | SPARE NUMBER | |
| 5 | 1 | EQUIPMENT STAND | |
| 6 | 1 | TABLE TOP KETTLE | |
| 7 | 1 | DOUBLE CONVECTION OVEN | |
| 8 | 1 | MIXER 40QT | |
| 9 | 1 | FLOOR TROUGH | |
| 10 | 1 | EXHAUST HOOD | |
| 11 | 1 | 7FT WORK TABLE WITH SINK | |
| 12 | 1 | 9FT WORK TABLE | |
| 13 | 1 | 9FT WORK TABLE WITH SINK | |
| 14 | 3 | 7FT WORK TABLE | |
| 15 | 3 | 6FT WORK TABLE | |
| 16 | 3 | HAND SINK | |
| 17 | 1 | 2 COMPARTMENT SINK | |
| 18 | 1 | FOOD PROCESSOR | |
| 19 | 1 | MICROWAVE OVEN | |
| 20 | 1 | BLAST CHILLER | |
| 20.1 | 1 | BLAST CHILLER REMOTE COMPRESSOR | |
| 21 | 1 | ADA HAND SINK | |
| 22 | - | SPARE NUMBER | |
| 23 | 1 | 2 SECTION PASS THROUGH REFRIGERATOR | BY OTHER |
| 24 | 1 | PASS THROUGH MOBILE HOT HOLDING CABINET | BY OTHER |
| 25 | 1 | 6 PAN HOT WELL | |
| 26 | 1 | 6 PAN COLD WELL | |
| 27 | 1 | REFRIGERATED MILK MERCHANDISER | |
| 28 | 1 | ICE CREAM CABINET | |
| 29 | 2 | MOBILE CASHIER STAND | BY OTHER |
| 30 | 2 | CONDIMENT COUNTER | MILLWORK |
| 31 | - | SPARE NUMBER | |
| 32 | 5 | MOBILE POT AND PAN SHELVING UNIT | |
| 33 | 18 | WALK-IN SHELVING UNIT | |
| 34 | 12 | DRY STORAGE SHELVING UNIT | |
| 35 | 4 | NON FOOD STORAGE SHELVING UNIT | |
| 36 | 1 | MOP SINK/CAN WASH W/ MOP RACK | |
| 37 | 3 | UTILITY CART | |
| 38 | 1 | 12x12 FLOOR DRAIN | |
| 39 | 4 | TRASH CAN | |
| 40 | 3 | THREE TIER LOCKERS | |
| 41 | 15 | CORNER GUARD | |
| 42 | 1 | MOBILE TRAY AND SILVERWARE DISPENSER | |
| 43 | 1 | WALK-IN COOLER/FREEZER | |
| 44 | 1 | HOSE REEL | |
| 45 | 2 | CAN RACK | |
| 46 | 1 | WASHER DRYER STACK | NOT IN CONTRACT |
| 47 | 1 | SLICER | |
| 48 | 1 | SERVING COUNTER W/ TRAY SLIDE | MILLWORK |
| 49 | 1 | EVAPORATOR -10'F | |
| 50 | 1 | EVAPORATOR 40'F | |
| 51 | 1 | COMPRESSOR -10'F | REMOTE |
| 52 | 1 | COMPRESSOR 40'F | REMOTE |
| 53 | 1 | DISHWASHER | |
| 54 | 1 | SOILED DISHTABLE | |
| 55 | 1 | CLEAN DISHTABLE | |
| 56 | 1 | 3 COMPARTMENT POWERSOAK SINK | |
| 57 | 1 | DISPOSER | |
| 58 | 1 | FIRE SUPPRESSION SYSTEM | |

REVISED 9/4/2015

## GENERAL HEALTH DEPARTMENT NOTES

ARCHITECT

1. ALL DOORS TO THE OUTSIDE WALL WILL BE SELF-CLOSING AND RODENT-PROOF.
2. ALL RESTROOM DOORS WILL BE SELF-CLOSING.
3. ALL PAINTING WILL BE LEAD-FREE, NONMETALLIC, EASILY CLEANABLE PAINT OR A HIGH QUALITY VARNISH.
4. THE OUTSIDE STORAGE OF REFUSE AND UNCONDITIONED GREASE WILL BE IN RODENT-PROOF CONTAINERS LOCATED ON A PAVED SURFACE. THE PAD SHALL BE FINISHED WITH A GREASE-RESISTANT SEALANT.

ENGINEER

5. FOR THE OUTSIDE STORAGE OF REFUSE AND UNCONDITIONED GREASE PROVIDE ELECTRICAL CONNECTION FOR ELECTRICAL PEST CONTROL DEVICE AND AREA DRAIN
6. A MINIMUM OF 50 FOOT CANDLES OF SHIELDED LIGHT WILL BE PROVIDED AT ALL WORK SURFACES IN STORAGE AREAS, FOOD PREPARATION AREAS, UTENSIL-WASHING AREAS, TOILET ROOMS, LOCKER ROOMS, AND IN GARBAGE AND RUBBISH AREAS.
7. ALL RESTROOMS WILL BE EQUIPPED WITH MECHANICAL EXHAUST VENTILATION SIZED AT A MINIMUM RATE OF TWO CUBIC FEET PER MINUTE PER SQUARE FOOT OF FLOOR AREA AND EXHAUSTING DIRECTLY TO THE OUTSIDE.
8. ALL EXHAUST SYSTEMS ABOVE ANY COOKING EQUIPMENT WILL BE UL LISTED AND CONSTRUCTED ACCORDING TO NFPA STANDARDS.
9. ALL SINK INSTALLATIONS WILL BE EQUIPPED WITH HOT AND COLD RUNNING WATER THROUGH A MIXING VALVE OR COMBINATION FAUCET.
10. WATER SUPPLY PIPING TO THE DISHWASHER WILL BE EQUIPPED WITH AN APPROVED PRESSURE GAUGE INSTALLED IMMEDIATELY UPSTREAM FROM THE FINAL RINSE CONTROL VALVE AND DOWNSTREAM FROM A LINE STRAINER. PRESSURE GAUGE MUST READ BETWEEN 15 P.S.I. AND 25 P.S.I.

GENERAL CONTRACTOR

11. ALL PIPING, CONDUIT BOX CABLE AND SIMILAR CONSTRUCTION WILL EITHER BE LOCATED INSIDE A WALL OR INSTALLED WITH A MINIMUM ¾ INCH SPACE FROM THE WALL OR SEALED TO THE WALL.
12. ALL FLOOR-MOUNTED EQUIPMENT WILL BE PLACED ON NATIONAL SANITATION FOUNDATION (NSF) APPROVED SIX INCH LEGS, OR THE EQUIVALENT, AND PROPERLY SPACED FROM ADJACENT WALLS; OR PLACED IN NSF APPROVED CASTERS, OR THE EQUIVALENT; OR PROPERLY SEALED TO ALL SURFACES.
13. ALL COUNTER-MOUNTED FOODSERVICE EQUIPMENT WEIGHING IN EXCESS OF SIXTY POUNDS WILL BE MOUNTED ON NSF APPROVED FOUR INCH LEGS.
14. ALL EXPOSED RAW WOOD WILL BE SEALED.
15. ALL ANNULAR OPENINGS IN CONSTRUCTION WILL BE SEALED TO WITHIN 1/32 OF AN INCH.
16. ALL SEALANTS MUST BE LISTED AS APPROVED BY THE NATIONAL SANITATION FOUNDATION (NSF) UNDER STANDARD 51. SEALANTS SHALL BE USED ONLY IN STRUCTURALLY SOUND JOINTS AND SEAMS. SEALANTS MAY BE USED TO FILL SPACES AND OPENINGS SUCH AS, BUT NOT LIMITED TO BLIND RIVET HEADS AND SLOT AND PHILLIPS HEAD SCREWS. SEALANTS MAY NOT BE UTILIZED IN FOOD AND SPLASH CONTACT SURFACES, TO FILL OPEN SPACES OR VOIDS WHICH RESULT DUE TO IMPROPER DESIGN OR FABRICATION. ANY OPENING IN EXCESS OF 1/8 INCH SHALL BE CONSIDERED EXCESSIVE AND MUST BE CLOSED UNDER PROPER FIELD JOINTS.
17. OPENINGS AROUND SERVICE AND UTILITY LINES SHOULD BE CLOSED INSOFAR AS PRACTICAL BY COLLARS OR GROMMETS OR FLEXIBLE FORM GASKETS.

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

NAVFAC

SEAL

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100 North 6th Street
Philadelphia, PA 19106-1590
Tel: 215-923-2020 Fax: 215-574-0952

A/E INFO

APPROVED

FOR COMMANDER NAVFAC
ACTIVITY

SATISFACTORY TO DATE 07/14/15

Designer , Author IL Checker HI

PM/DM

RRANCH MANAGER

IIEF ENG/ ARCH

XX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
DoDEA
NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON
MARINE CORPS BASE QUANTICO, VIRGINIA
MARINE CORPS BASE QUANTICO
QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL
FOODSERVICE EQUIPMENT PLAN

SCALE: 1/8" = 1'-0"

PROJECT NO.: P-021

CONSTR. CONTR. NO.
W91236-15-C-0023

NAVFAC DRAWING NO.
13091539

SHEET 785 OF 789

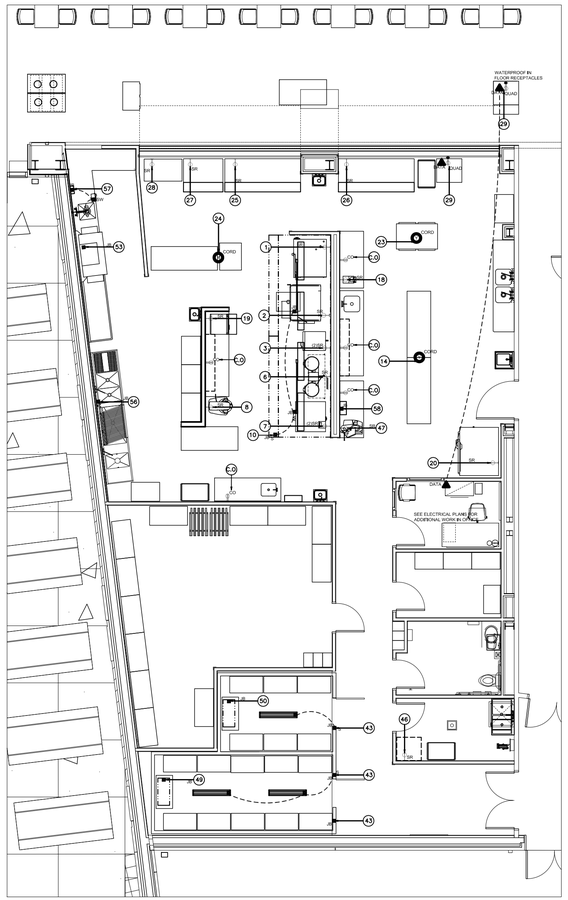
QF110

PLAN NORTH

DRAWFORM REVISION: 10 MARCH 2009

RTA SUBMISSION - 10/13/2016

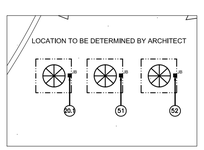
PLOT DATE:10/7/2016 11:46 AM




## ELECTRICAL SPOT CONNECTION PLAN

01 / QF120 — 1/8" = 1'-0" SCALE

1/8"=1'-0" 4' 2' 0 4' 8'
GRAPHIC SCALE




## ELECTRICAL SPOT CONNECTION PLAN

02 / QF120 — 1/8" = 1'-0" SCALE

1/8"=1'-0" 4' 2' 0 4' 8'
GRAPHIC SCALE

## ELECTRICAL SYMBOL LEGEND

| | |
|---|---|
| ◯ | SPOT CONNECTION NUMBER |
| JB ■ | JUNCTION BOX |
| S JB ■ | JUNCTION BOX W/ SWITCH |
| SR | SINGLE RECEPTACLE |
| DR | DUPLEX RECEPTACLE |
| CBP# ▬ | CIRCUIT BREAKER PANEL |
| KEC | KITCHEN EQUIPMENT CONTRACTOR |
| + | DISTANCE ABOVE FINISHED FLOOR |
| DN+ | DISTANCE DOWN TO A.F.F. |
| V | VOLTS |
| KW | KILOWATTS |
| HP | HORSEPOWER |
| C.O. | CONVENIENCE OUTLET |
| DATA ▲ | DATA LINE CONNECTION |
| CORD (Y) | CEILING MOUNTED POWER REEL |

## ELECTRIC SPOT CONNECTION SCHEDULE

| ITEM NO. | QTY | DESCRIPTION | CONN. TYPE | VOLTS | PH | WIRE | AMPS | KW | HP | CONN. HGT. | REMARKS | ENERGY STAR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | COMBI OVEN | SR | 120 | 1 | 2 | 10.6 | | | +10" | SHUNT TRIP BREAKER | |
| 2 | 1 | BRAISING PAN | SR | 120 | 1 | 2 | 15.0 | | | +18" | SHUNT TRIP BREAKER | |
| 3 | 1 | BOILERLESS STEAMER | (2)SR | 208 | 3 | 3 | 22.0 | | | +48" | SHUNT TRIP BREAKER | |
| 6 | 1 | TABLE TOP KETTLE | SR | 208 | 3 | 3 | 54.5 | | | +36" | SHUNT TRIP BREAKER | |
| 7 | 1 | DOUBLE CONVECTION OVEN | (2)SR | 115 | 1 | 2 | 3.5 | | | +48" | SHUNT TRIP BREAKER | |
| 8 | 1 | MIXER 40QT | SR | 208 | 1 | 3 | 9.3 | | | +48" | | |
| 10 | 1 | EXHAUST HOOD | JB | 120 | 1 | 2 | 15CT | | | +108" | | |
| 14 | 1 | 7FT WORK TABLE | DR | 120 | 1 | 2 | 15CT | | | +80" | FROM CORD REEL ABOVE | |
| 18 | 1 | FOOD PROCESSOR | SR | 120 | 1 | 2 | 3.5 | | | +48" | | |
| 19 | 1 | MICROWAVE OVEN | SR | 208 | 1 | 2 | 20.0 | | | +48" | | |
| 20 | 1 | BLAST CHILLER | SR | 208 | 1 | 3 | 15.6 | | | +18" | | |
| 20.1 | 1 | BLAST CHILLER REMOTE COMPRESSOR | JB | 208 | 3 | 3 | 42.3 | | | +18" | | |
| 23 | 1 | 2 SECTION PASS THROUGH REFRIGERATOR | SR | 115 | 1 | 2 | 8.6 | | | +80" | FROM CORD REEL ABOVE | |
| 24 | 1 | PASS THROUGH MOBILE HOT HOLDING CABINET | SR | 120 | 1 | 2 | 17.6 | | | +80" | FROM CORD REEL ABOVE | |
| 25 | 1 | 6 PAN HOT WELL | SR | 208 | 1 | 2 | 29.0 | | | +24" | | |
| 26 | 1 | 6 PAN COLD WELL | SR | 115 | 1 | 2 | 7.5 | | | +24" | | |
| 27 | 1 | REFRIGERATED MILK MERCHANDISER | SR | 115 | 1 | 2 | 11 | | | +18" | | |
| 28 | 1 | ICE CREAM CABINET | SR | 115 | 1 | 2 | 5.3 | | | +18" | | |
| 29 | 2 | MOBILE CASHIER STAND | QUAD | 115 | 1 | 2 | 15A CT | | | +0" | WATERPROOF, IN FLOOR FLUSH | |
| 43 | 1 | WALK-IN COOLER/FREEZER | JB | 115 | 1 | 2 | 15A CT | | | +84" | FREEZER VENT | |
| 43 | 1 | WALK-IN COOLER/FREEZER | (2)JB | 115 | 1 | 2 | 15A CT | | | +102" | LIGHTS, ACCESSORIES, FREEZER VENT | |
| 46 | 1 | WASHER DRYER STACK | SR | 120/208V | 1 | 2 | 50 | | | +42" | BY OTHER | |
| 47 | 1 | SLICER | SR | 120 | 1 | 2 | | | 0.5 | +42" | | |
| 49 | 1 | EVAPORATOR -10'F | SR | 208 | 1 | 2 | 8 | | | +96" | FAN AND DRAIN PAN HEATER | |
| 50 | 1 | EVAPORATOR 40'F | SR | 115 | 1 | 2 | 1.8 | | | +96" | FAN MOTOR | |
| 51 | 1 | COMPRESSOR -10'F | JB | 208 | 3 | 3 | 32 | | | +18" | | |
| 52 | 1 | COMPRESSOR 40'F | JB | 208 | 3 | 3 | 13 | | | +18" | | |
| 53 | 1 | DISHWASHER | SR | 208 | 1 | 3 | 63.9 | | | +60" | | |
| 56 | 1 | 3 COMPARTMENT POWERSOAK SINK | JB | 480 | 3 | 3 | 11.6 | | | +18" | | |
| 57 | 1 | DISPOSER | JB | 208 | 1 | 2 | 7.7 | | | +18" | TO WALL CONTROL PANEL | |
| 58 | 1 | FIRE SUPPRESSION SYSTEM | JB | N/A | * | * | * | | | +96" | CONTROL WIRE TO FIRE PANEL | |
| C.O. | LOT | CONVENIENCE OUTLET | DR | 120 | 1 | 2 | 20A CT | | | +42" | HEIGHT MAY VARY | |

REVISED 9/4/2015

## ELECTRICAL SPOT CONNECTION NOTES

ENGINEER

1. THIS IS NOT A ROUGH-IN DRAWING. DIMENSIONED ROUGH-IN AND SLEEVE DRAWINGS WILL BE PROVIDED BY THE KITCHEN EQUIPMENT CONTRACTOR. THIS IS ONLY FOR REFERENCE AND THE USE OF THE PROJECT ELECTRICAL ENGINEERS IN PREPARING THEIR DRAWINGS.

2. ALL KITCHEN ELECTRICAL OUTLETS WILL BE GFI.

3. ELECTRICAL DIVISION IS RESPONSIBLE FOR:
   - ALL WIRING, CONDUIT, FITTINGS AND LABOR UP TO AND INCLUDING FINAL CONNECTIONS
   - PROVISION OF AREA SUB-PANELS IN LIEU OF DISCONNECT SWITCHES WHEREVER POSSIBLE
   - PROVISION OF ALL EXPOSED HARDWARE AND FIXTURES IN CHROME OR STAINLESS STEEL AND WATERPROOF
   - COORDINATION OF PANEL BOARDS WITH 20% SPARE CAPACITY; FULLY SIZE FEEDERS AND MAIN CIRCUIT BREAKERS
   - PROVISION OF SHUNT-TRIP BREAKERS FOR COOKING EQUIPMENT AS REQUIRED
   - PROVISION OF GROUND-FAULT BREAKERS FOR EQUIPMENT AS REQUIRED
   - EMPTY CONDUIT FOR CONTROL/COMPUTER WIRING AS REQUIRED

GENERAL CONTRACTOR / TRADE

4. SERVICES SHOWN RELATE TO FOODSERVICE EQUIPMENT REQUIREMENTS ONLY AND SHOW ONLY THE POINT OF CONNECTION, OR IF THE EQUIPMENT IS PROVIDED WITH A CORD AND CAP, THE PREFERRED LOCATION FOR THE EQUIPMENT OUTLET RECEPTACLE. CONVENIENCE RECEPTACLES, SWITCHES, CLOCK OUTLETS, TELEPHONE, COMPUTER CONDUITS, HVAC, LIGHTING AND OTHER POWER REQUIREMENTS ARE SHOWN ON ARCHITECTURAL/ENGINEERING DRAWINGS.

5. ELECTRICAL DIVISION IS RESPONSIBLE FOR:
   - INTER-WIRING VENTILATOR, FIRE SUPPRESSION, WASTE DISPOSAL, REMOTE REFRIGERATION POWER, AND WALK-IN REFRIGERATION CONTROL WIRING. ALL OTHER ELECTRICAL WORK WITHIN FABRICATED EQUIPMENT WILL BE BY THE KEC, READY FOR FINAL, SINGLE POINT CONNECT
   - EXPOSED CONDUIT SHALL BE SET MINIMUM ¾" AWAY FROM WALLS TO FACILITATE CLEANING
   - MOUNTING LIGHT FIXTURES IN WALK-INS; CONDUIT TO BE OUTSIDE OF WALK-IN; PENETRATIONS, FIXTURES,AND LAMPS FURNISHED BY KEC; DIVISION 15 TO SEAL PENETRATIONS
   - PROVISION AND INSTALLATION OF GAS RESET SWITCH.
   - ELECTRICAL CONNECTIONS AND STUB UPS SHALL NOT REQUIRE GREATER THAN 6" CLEARANCE FROM WALL TO REAR OF EQUIPMENT UNDER EXHAUST HOOD CANOPY

6. KEC REFRIGERATION CONTRACTOR SHALL PROVIDE AND INSTALL HEAT TAPE FOR WALK-IN FREEZER CONDENSATE DRAIN LINE; USE 18" OF TAPE PER LINEAL FOOT

7. FIRE SUPPRESSION AGENT & PIPING BY KEC'S FIRE SUPPRESSION CONTRACTOR; ELECTRICAL AND SIGNAL CONNECTIONS FOR FIRE SUPPRESSION BY ELECTRICAL CONTRACTOR.

PLAN NORTH

RTA SUBMISSION - 10/13/2016

PLOT DATE:10/7/2016 11:47 AM

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

NAVFAC

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A/E INFO

APPROVED

FOR COMMANDER NAVFAC
ACTIVITY

SATISFACTORY TO DATE 09/04/15
Designer Author Checker
PM/DM
BRANCH MANAGER
REF ENG/ ARCH
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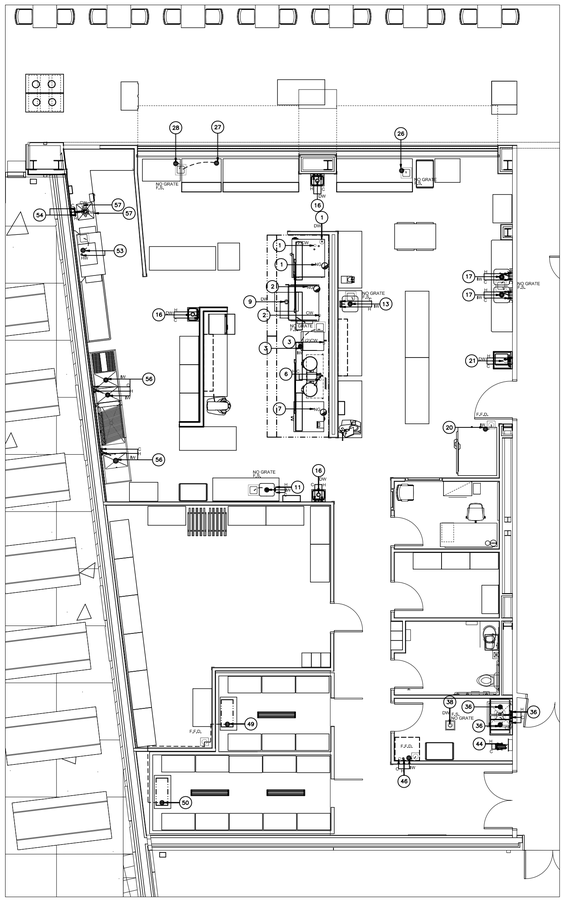
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON
NAVAL FACILITIES ENGINEERING COMMAND
DoDEA
MARINE CORPS BASE QUANTICO
MARINE CORPS BASE QUANTICO, VIRGINIA
QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL
ELECTRICAL SPOT CONNECTION PLAN

SCALE: 1/8" = 1'-0"
PROJECT NO.: P-021
CONSTR. CONTR. NO. W91236-15-C-0023
NAVFAC DRAWING NO. 13091540
SHEET 786 OF 789
QF120

DRAWFORM REVISION 10 MARCH 2009



# PLUMBING SPOT CONNECTION PLAN

01 QF130 1/8" = 1'-0" SCALE

1/8"=1'-0" 4' 2' 0 4' 8'

GRAPHIC SCALE

## PLUMBING SPOT CONNECTION SCHEDULE

| ITEM NO. | QTY | DESCRIPTION | TYPE | SIZE | CONN. HGT. | REMARKS |
|---|---|---|---|---|---|---|
| 1 | 1 | COMBI OVEN | DW | 2.00" | | |
| 1 | 1 | COMBI OVEN | (2) CW | 0.75" | | |
| 2 | 1 | BRAISING PAN | CW | .75" | +24" | PANTRY FAUCET |
| 3 | 1 | BOILERLESS STEAMER | (2)CW | 0.75" | +12" | |
| 3 | 1 | BOILERLESS STEAMER | IW | 1" | +6" | TO FLOOR SINK |
| 6 | 1 | TABLE TOP KETTLE | H/C | 0.75" | +36 | POURS TO #9 FLOOR TROUGH |
| 9 | 1 | FLOOR TROUGH | DW | 4" | +0" | |
| 11 | 1 | 7 FT PREP TABLE WITH SINK | H/C | .75" | +36" | |
| 11 | 1 | 7 FT PREP TABLE WITH SINK | IW | 1.5" | +12" | |
| 13 | 1 | 9FT WORK TABLE WITH SINK | H/C | .75" | +39" | |
| 13 | 1 | 9FT WORK TABLE WITH SINK | IW | 1.5" | +11" | |
| 16 | 3 | HAND SINK | H/C | .5" | +34" | |
| 16 | 3 | HAND SINK | DW | 1.5" | +24" | |
| 17 | 1 | 2 COMP SINK | (2)IW | 1.5" | +12" | |
| 17 | 1 | 2 COMP SINK | (2)H/C | .75" | +36" | |
| 20 | 1 | BLAST CHILLER | IW | 0.75" | +5.5" | CONDENSATE DRAIN |
| 21 | 1 | ADA HAND SINK | H/C | .5" | +34" | |
| 21 | 1 | ADA HAND SINK | DW | 1.5" | +24" | |
| 26 | 1 | 6 PAN COLD WELL | IW | 1" | +6" | BOTTOM MOUNTED DRAIN VALVE |
| 27 | 1 | REFRIGERATED MERCHANDISER | IW | 1" | +6" | BOTTOM MOUNTED DRAIN VALVE |
| 28 | 1 | ICE CREAM CABINET | IW | 1.25" | +6" | BOTTOM MOUNTED DRAIN VALVE |
| 36 | 1 | MOP SINK/CAN WASH W/ MOP RACK | H/C | 0.5" | +18" | |
| 36 | 1 | MOP SINK/CAN WASH W/ MOP RACK | CW | .75" | +8" | |
| 36 | 1 | MOP SINK/CAN WASH W/ MOP RACK | (2)DW | DW | +6" | |
| 38 | 1 | 12x12 FLOOR DRAIN | DW | 4" | +0" | |
| 44 | 1 | HOSE REEL | H/C | 0.5" | +60" | |
| 46 | 1 | WASHER DRYER STACK | H/C | 0.5" | +36" | |
| 46 | 1 | WASHER DRYER STACK | IW | 1" | +36" | |
| 49 | 1 | EVAPORATOR -10'F | IW | .75" | +80" | |
| 50 | 1 | EVAPORATOR 40'F | IW | .75" | +80" | |
| 53 | 1 | DISHWASHER | IW | 3" | +9" | |
| 53 | 1 | DISHWASHER | HW | 0.5" | +70" | 110'F |
| 54 | 1 | SOILED DISHTABLE | H/C | .75" | +39" | PRE-RINSE W/FAUCET |
| 54 | 1 | SOILED DISHTABLE | IW | 2" | +24" | |
| 56 | 1 | 3 COMPARTMENT POWERSOAK SINK | H/C | .75" | +39" | PRE-RINSE W/FAUCET |
| 56 | 1 | 3 COMPARTMENT POWERSOAK SINK | H/C | .75" | +39" | PRE-RINSE |
| 56 | 1 | 3 COMPARTMENT POWERSOAK SINK | (3)IW | 1.5" | +11" | |
| 57 | 1 | DISPOSER | DW | 3" | +18" | |
| 57 | 1 | DISPOSER | CW | .5" | +20" | |
| | | | | | | |

REVISED 9/4/2015

## GAS SPOT CONNECTION SCHEDULE

| ITEM NO. | QTY | DESCRIPTION | SIZE | MBH | CONN. HGT. | REMARKS |
|---|---|---|---|---|---|---|
| 1 | 1 | COMBI OVEN | .75"NPT | 218.4 | +76" | FLEXIBLE DISCONNECT |
| 2 | 1 | BRAISING PAN | .75" NPT | 120 | +24" | FLEXIBLE DISCONNECT |
| 7 | 1 | DOUBLE CONVECTION OVEN | (2).75" NPT | (2)40 | +17"/48" | FLEXIBLE DISCONNECT |
| | | | | | | |
| | | | | | | |

REVISED 8/20/2015

## PLUMBING CONNECTION NOTES

ENGINEER

1. THIS IS NOT A ROUGH-IN DRAWING. DIMENSIONED ROUGH-IN AND SLEEVE DRAWINGS WILL BE PROVIDED BY THE KITCHEN EQUIPMENT CONTRACTOR. THIS IS ONLY FOR REFERENCE AND THE USE OF THE PROJECT MECHANICAL ENGINEERS IN PREPARING THEIR DRAWINGS.

2. PLUMBING/MECHANICAL DIVISION IS RESPONSIBLE FOR:
   - ALL WATER, WASTE, GAS, STEAM AND HVAC SERVICE TO VALVES, STOPS, CLEANOUTS, INSULATION, INSULATION COVERS, AND HARDWARE UP AND INCLUDING FINAL CONNECTIONS.
   - PROVISION OF ALL EXPOSED PIPING AND FITTINGS IN CHROME OR STAINLESS STEEL
   - PROVISION OF HARD COPPER FOR WALK-IN DRAIN LINES
   - INDIVIDUALLY VALVING EACH SUPPLY CONNECTION
   - PROVIDING GREASE TRAPS. NOTE: INLET TO GREASE TRAP FROM THREE COMPARTMENT SINK SHALL NOT EXCEED 9¼" FROM CENTER LINE OF INTERCEPTOR TO FINISHED FLOOR. MAXIMUM REQUIRED FLOW RATE FOR ALL THREE SINK BOWLS TO INTERCEPTOR IS 36 GPM.

3. PLUMBING DIV SHALL COORDINATE WITH THE ARCHITECT FOR AN ACCESS PANEL WITH INSPECTION WINDOW FOR THE GAS VALVES IN PUBLIC AREAS.

4. ALL EXPOSED GAS PIPE IN KITCHEN AREAS SHALL BE PAINTED YELLOW WITH EPOXY PAINT.

GENERAL CONTRACTOR / TRADE

5. SERVICES SHOWN RELATE TO THE FOODSERVICE EQUIPMENT REQUIREMENTS ONLY AND SHOW ONLY THE POINT OF CONNECTION OR IF THE EQUIPMENT IS PROVIDED WITH A QUICK DISCONNECT OUTLET. SEE THE ARCHITECTURAL/ENGINEERING DRAWINGS FOR ADDITIONAL REQUIREMENTS.

6. PLUMBING/MECHANICAL DIVISION IS RESPONSIBLE FOR:
   - WALK-IN DRAIN LINES GRAY EPOXY COATED WHERE EXPOSED; SET LINES SECURELY AND MINIMUM ¾" CLEAR OF WALLS AND MINIMUM 3" ABOVE FLOOR WITH PIPE SUPPORTS.
   - PROVISION OF P-TRAPS AT WALK-IN FUNNEL FLOOR DRAINS.
   - INTERCONNECTION VENTILATORS AND CONTROL PANELS, HOOD DETERGENT SYSTEMS, WASTE SYSTEMS AND WAREWASHER BOOSTER HEATER
   - INSTALLING FIRE CONTROL SHUT-OFF VALVE PROVIDED BY KEC
   - PLUMBING CONNECTIONS SHALL NOT REQUIRE GREATER THAN 6" CLEARANCE FROM WALL TO REAR OF EQUIPMENT UNDER EXHAUST HOOD CANOPY

7. FIRE SUPPRESSION AGENT & PIPING BY KEC'S FIRE SUPPRESSION CONTRACTOR

8. THE KEC SPECIFICATIONS CLEARLY DEFINE EACH TRADES RESPONSIBILITIES FOR FOODSERVICE INSTALLATIONS. ALL TRADES ARE URGED TO BECOME FAMILIAR WITH THE SPECIFICATIONS.

9. KEC'S REFRIGERATION CONTRACTOR SHALL INSULATE INDIRECT WASTE LINES FROM WALK-IN FREEZER; INCLUDING AND CONNECTING 6-WATTS PER LINEAL FOOT OF HEAT TAPE. PROVIDE PENETRATIONS IN PANELS FOR DRAIN LINES,

10. THE HEAT TRANSFER AREA SHALL BE INCREASED BY CONTINUOUS TANGENTIAL FILLETS OF HEAT CONDUCTING PASTE.

11. FOR ALL COMPRESSORS, PROVIDE EXPANSION VALVE AND DEFROST TIME CLOCK AS REQUIRED.

12. CONTRACTOR SHALL INSTALL DOOR STOPS FURNISHED BY KEC TO PROTECT DRAIN LINES AS REQUIRED.

13. WASTE WATER FROM ALL APPLICABLE FOODSERVICE EQUIPMENT WILL BE INDIVIDUALLY PLUMBED TO AN OPEN SITE DRAIN WITH A MINIMUM OF ONE INCH AIR GAP AND TAPER CUT FACING AWAY FROM WALK WAY.

## PLUMBING SYMBOLS

| | |
|---|---|
| (XX) | SPOT CONNECTION NUMBER |
| KEC | KITCHEN EQUIPMENT CONTRACTOR |
| +AFF | DISTANCE ABOVE FINISHED FLOOR |
| DN+ | DISTANCE DOWN TO A.F.F. |
| MBTUH | 1000 BTU/HOUR |
| H/C | HOT WATER & COLD WATER |
| CW | COLD WATER |
| HW | HOT WATER |
| FW | FILTERED WATER |
| IW | INDIRECT WASTE |
| DW | DIRECT WASTE |
| F.F.D. | FUNNEL FLOOR DRAIN |
| FG GRATE F.S. | FLOOR SINK |
| O.S.D. | OPEN SITE DRAIN |
| NG | GAS |
| SS | STEAM SUPPLY |
| CR | CONDENSATE RETURN |
| RLL | REFRIGERANT LIQUID LINE |
| RSL | REFRIGERANT SUCTION LINE |
| CWS | CONDENSER WATER SUPPLY |
| CWR | CONDENSER WATER RETURN |

PLAN NORTH

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

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IIEF ENG/ ARCH

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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON
DoDEA MARINE CORPS BASE QUANTICO MARINE CORPS BASE QUANTICO, VIRGINIA QUANTICO, VA

REPLACE QUANTICO M/H SCHOOL

PLUMBING SPOT CONNECTION PLAN

SCALE: 1/8" = 1'-0"

PROJECT NO.: P-021

CONSTR. CONTR. NO. W91236-15-C-0023

NAVFAC DRAWING NO. 13091541

SHEET 787 OF 789

QF130

DRAWFORM REVISION: 10 MARCH 2009

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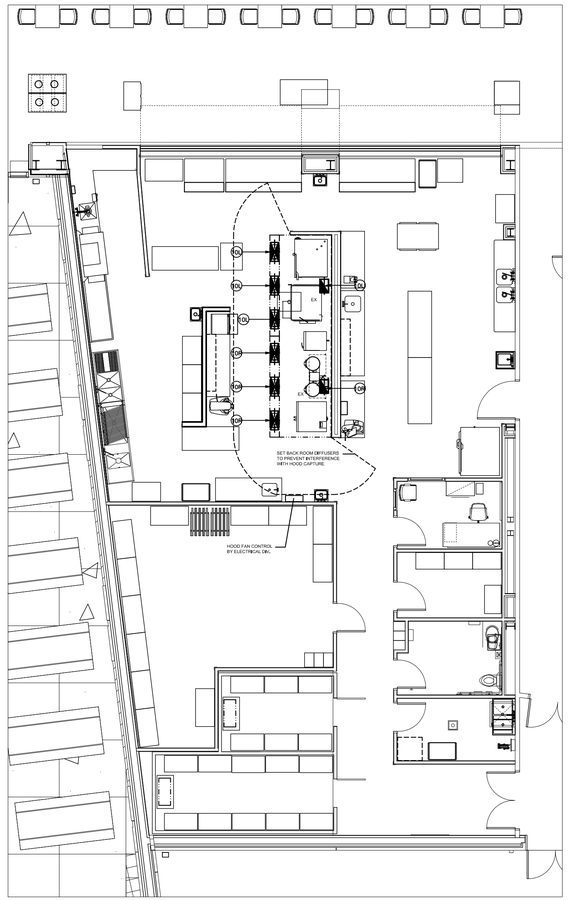


## VENTILATION SPOT CONNECTION PLAN

01 / QF140 — 1/8" = 1'-0" SCALE

1/8"=1'-0" 4' 2' 0 4' 8'

GRAPHIC SCALE

## FIRE SUPPRESSION NOTES

1. FIRE SUPPRESSION SYSTEM INTERCONNECTION: FUEL SUPPLY, ELECTRICAL SUPPLY AND INTERNAL MAKEUP AIR WILL SHUTDOWN UPON ACTIVATION. EXHAUST FAN WILL CONTINUE TO OPERATE AS PER NFPA 96.
2. REMOTE PULL STATION WILL BE LOCATED IN A PATH OF EGRESS 10 TO 20 FEET FROM HOOD AND 42" TO 48" ABOVE THE FINISHED FLOOR (PER IBC 2012)
3. KITCHEN EQUIPMENT CONTRACTOR AND ELECTRICAL CONTRACTOR TO COORDINATE INTERCONNECTION BETWEEN THE EXISTING FIRE ALARM SYSTEM AND THE AUTOMATIC FIRE SUPPRESSION SYSTEM.
4. SEE ARCHITECTURAL PLAN FOR FIRE SUPPRESSION PLAN.

**VENTILATION SPOT CONNECTION SCHEDULE**

| ITEM NO. | QTY | DESCRIPTION | TYPE | STAT. PRES. | TOTAL CFM | DUCT SIZE | CONN. HGT. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 10L | 1 | EXHAUST HOOD LEFT BANK | EXHAUST | -0.596" | 1852 | (1) @ 10"x 17" | 110" AFF | |
| 10L | 1 | EXHAUST HOOD LEFT BANK | SUPPLY | 0.135" | 1487 | (3) @ 10"x 24" | 110" AFF | |
| 10R | 1 | EXHAUST HOOD RIGHT BANK | EXHAUST | -0.605" | 1867 | (1) @ 10"x 17" | 110" AFF | |
| 10R | 1 | EXHAUST HOOD RIGHT BANK | SUPPLY | 0.136" | 1488 | (3) @ 10"x 24" | 110" AFF | |

REVISED 8/3/2015

## MECHANICAL SYMBOLS

- SPOT CONNECTION NUMBER
- SUPPLY DUCT CONNECTION
- EXHAUST DUCT CONNECTION
- CFM — CUBIC FEET PER MINUTE
- SP — STATIC PRESSURE
- KEC — KITCHEN EQUIPMENT CONTRACTOR
- +AFF — DISTANCE ABOVE FINISHED FLOOR
- DN+ — DISTANCE DOWN TO FINISHED FLOOR

- ALL MULTIPLE HOOD SYSTEMS TIED TO ONE FAN ASSEMBLY SHALL BE PROVIDED WITH BALANCING DAMPERS. DAMPERS MAY BE PRE-INSTALLED IN THE EXHAUST PLENUM OR SHIPPED LOOSE FOR FIELD INSTALLATION

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NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON
MARINE CORPS BASE QUANTICO, VIRGINIA
MARINE CORPS BASE QUANTICO
QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL
VENTILATION SPOT CONNECTION PLAN

SCALE: 1/8" = 1'-0"
PROJECT NO.: P-021
CONSTR. CONTR. NO. W91236-15-C-0023
NAVFAC DRAWING NO. 13091542
SHEET 788 OF 789
QF140

DRAWFORM REVISION: 10 MARCH 2009

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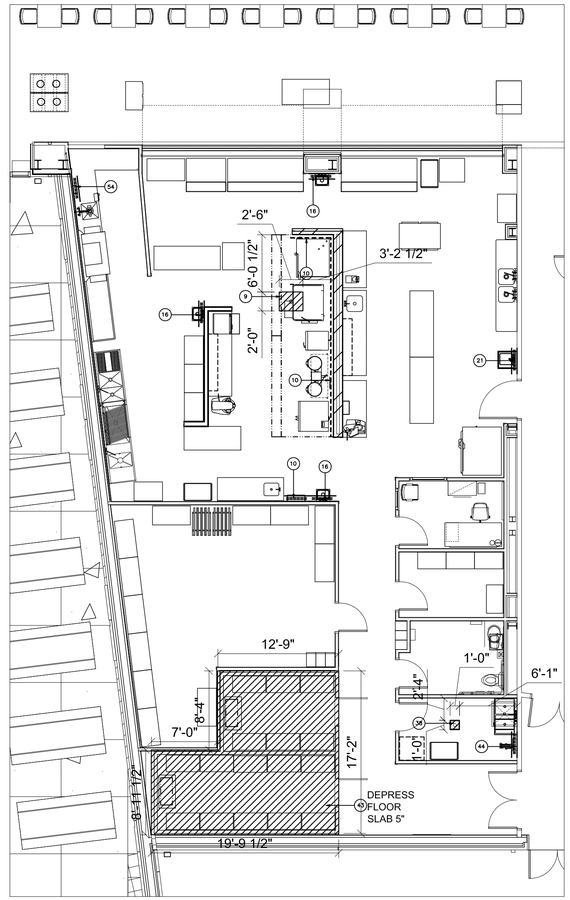
PLOT DATE:10/7/2016 11:50 AM



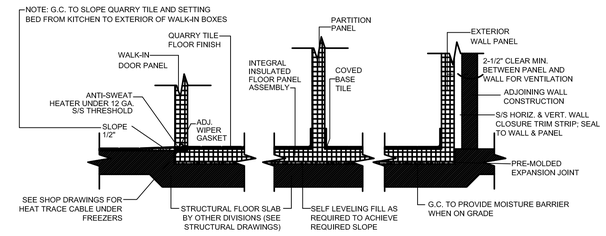

## SPECIAL CONDITIONS PLAN

01 QF150 1/8" = 1'-0" SCALE

1/8"=1'-0" 4' 2' 0 4' 8'

GRAPHIC SCALE

### SECTION DETAIL FOR WALK-IN REFRIGERATOR/FREEZER FLOOR




NOT TO SCALE

### SPECIAL CONDITIONS SYMBOLS

- EQUIPMENT ITEM NUMBER
- WALL REINFORCEMENT
- WALL FLASHING
- CONDUIT
- FLOOR DEPRESSION
- ARCHITECTURAL INSULATED FLOOR
- FIRE RATED MATERIAL
- EQUIPMENT LOCATION

- FLOOR FINISH WILL BE SLIP RESISTANT NON POUROUS PORCELAIN TILE WITH COVED BASE
- CEILING HEIGHT WILL BE 10'-0"

### SPECIAL CONDITION SCHEDULE

| ITEM NO. | QTY | DESCRIPTION | CONDITION | REMARKS |
|---|---|---|---|---|
| 9 | 1 | FLOOR TROUGH | SLAB DEPRESSION | DEPRESS SLAB AS REQUIRED FOR INSTALLATION OF IN FLOOR TROUGH. COORDINATE WITH SELECTED TROUGH |
| 10 | 1 | EXHAUST HOOD | WALL FLASHING | STAINLESS STEEL WALL FLASHING FROM SCHEDULED FLOOR BASE TO BOTTOM OF HOOD. NO EXPOSED FASTENERS, SEAL ALL SEAMS WITH HIGH TEMP, NSF COMPLIANT SILICONE SEALANT |
| 10 | 1 | EXHAUST HOOD (FAN CONTROL SWITCH) | WALL REINFORCEMENT | AS REQ. FOR WALL MOUNTED FAN CONTROL |
| 16 | 4 | HAND SINK | WALL REINFORCEMENT | AS REQ. FOR WALL MOUNTED SINK |
| 38 | 1 | FLOOR DRAIN | SLAB DEPRESSION | DEPRESS SLAB AS REQUIRED FOR INSTALLATION OF IN FLOOR DRAIN. COORDINATE WITH SELECTED DRAIN |
| 43 | 1 | WALK-IN COOLER/FREEZER | SLAB DEPRESSION | DEPRESS SLAB 5", FOR INSTALATION OF LEVELING COMPOUND AND 4" INSULATED FLOOR PANEL TO CREATE A FLUSH TRANSITION FROM WALK-IN TO KITCHEN FLOOR SLAB |
| 44 | 1 | HOSE REEL | WALL REINFORCEMENT | AS REQ. FOR WALL MOUNTED HOSE REEL |
| 54 | 1 | DISPOSER CONTROL SWITCH | WALL REINFORCEMENT | AS REQ. FOR WALL MOUNTED DISPOSER SWITCH |
| | | | | |

REVISED 9/4/2015

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| SYM | DESCRIPTION | DATE | APPR |
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MARINE CORPS BASE QUANTICO
QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL
SPECIAL CONDITIONS PLAN

SCALE: 1/8" = 1'-0"
PROJECT NO.: P-021
CONSTR. CONTR. NO. W91236-15-C-0023
NAVFAC DRAWING NO. 13091543
SHEET 789 OF 789
QF150

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