

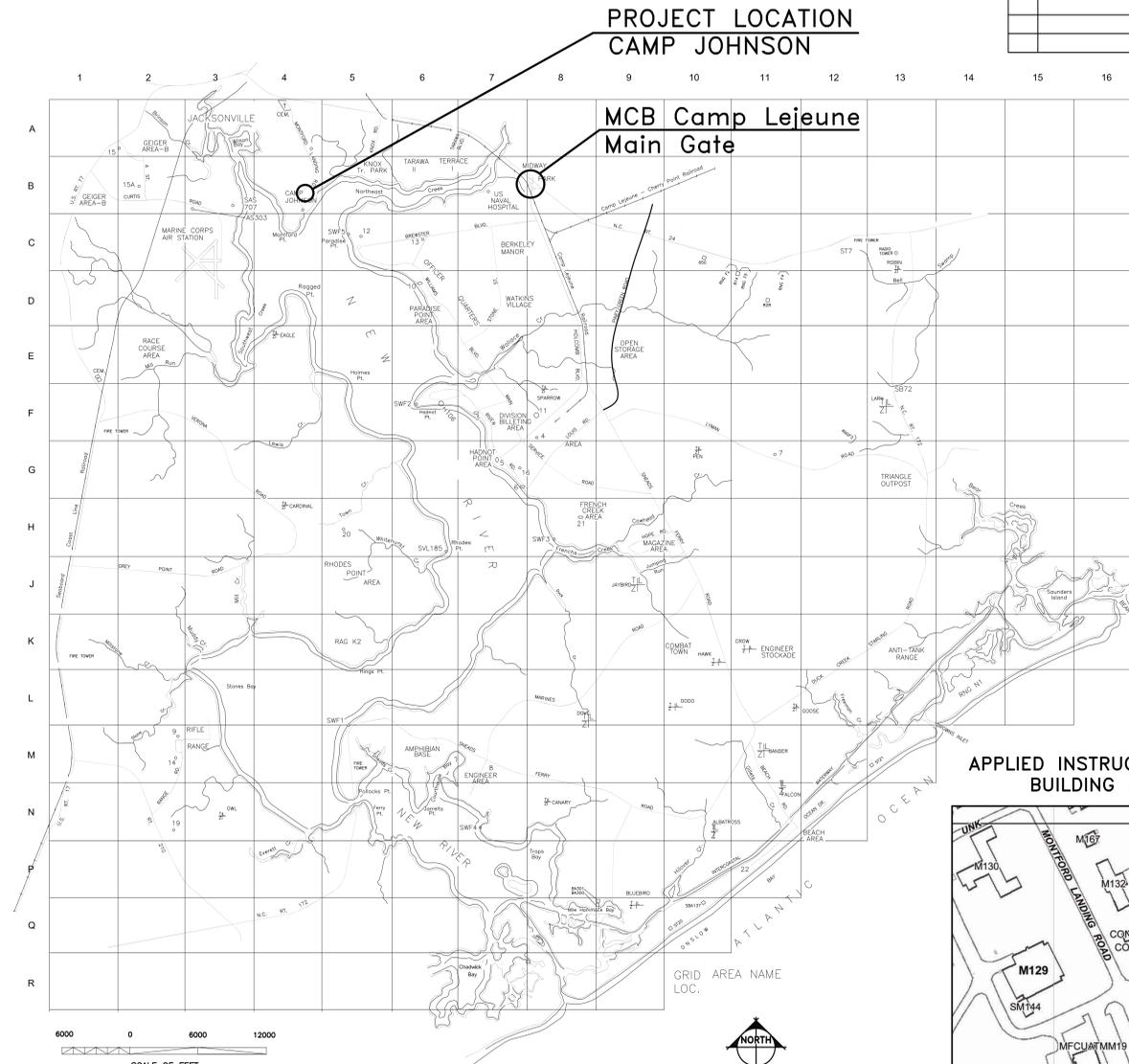
ADDITIONS OF HEADS TO BUILDING M112

MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA

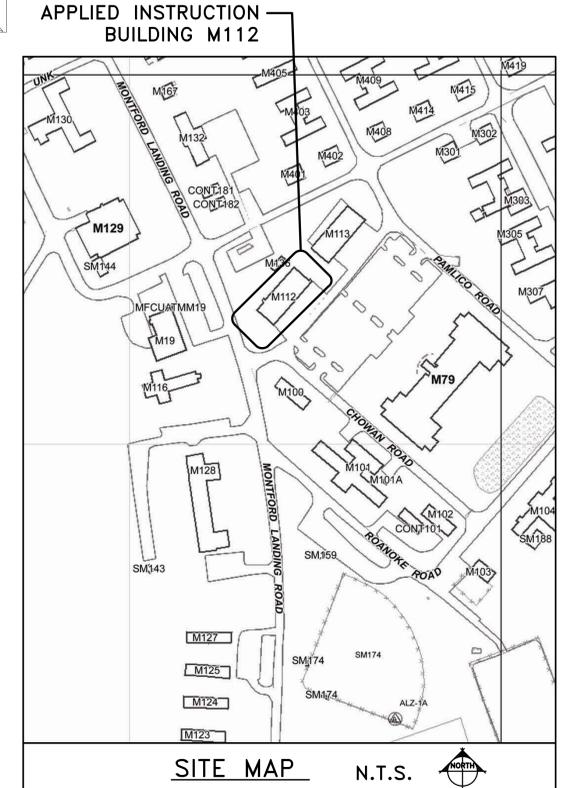
INDEX OF DRAWINGS

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SYM	REVISIONS	DATE APPROVED



GRID LOC.	AREA NAME
C3	AIR STATION
M6	AMPHIBIAN BASE
K13	ANTI-TANK RANGE
N11	BEACH
C7	BERKELEY MANOR
K10	COMBAT TOWN
M7	ENGINEER AREA
K11	ENGINEER STOCKADE
H8	FRENCH CREEK
A2	GEIGER "A"
B1	GEIGER "B"
G7	HADNOT POINT AREA
B5	KNOX TRAILER PARK
H9	MAGAZINE AREA
B8	MIDWAY PARK
B4	MONTFORD POINT
E8	OPEN STORAGE AREA
D6	PARADISE POINT AREA
E2	RACE COURSE AREA
J5	RHODES POINT AREA
M3	RIFLE RANGE
A6	TARAWA TERRACE I & II
G13	TRIANGLE OUTPOST
D7	WATKINS VILLAGE
B7	US NAVAL HOSPITAL



SYM	REVISIONS	DATE APPROVED

CODE ANALYSIS – INTERNATIONAL BUILDING CODE

OCCUPANCY CLASSIFICATION
 1. LOW-HAZARD STORAGE GROUP (S-2)
 TYPE OF CONSTRUCTION
 TYPE V-B
 NO OCCUPANCY SEPARATION REQUIRED PER TABLE 508.3.3 2009 IBC

ALLOWABLE HEIGHT CALCULATION (TYPE V-B CONSTR.)
 1. GROUP S-2
 1.1 ALLOWABLE HEIGHT CALCULATION—STORIES
 1.1.1 ALLOWABLE TABULAR HEIGHT:
 ONE STORY (TABLE 503)
 1.1.2 HEIGHT INCREASE—SPRINKLER:
 N/A (SECTION 504.2)
 1.1.3 TOTAL ALLOWABLE HEIGHT:
 ONE STORY
 1.2 ALLOWABLE HEIGHT CALCULATION—FEET
 1.2.1 ALLOWABLE TABULAR HEIGHT:
 40 FEET (TABLE 503)
 1.2.2 HEIGHT INCREASE SPRINKLER:
 N/A (SECTION 504.2)
 1.2.3 TOTAL ALLOWABLE HEIGHT:
 40 FEET

ALLOWABLE AREA CALCULATION (TYPE V-B CONSTR.)
 1. GROUP S-2
 1.1 ALLOWABLE AREA CALCULATION
 1.1.1 TABULAR AREA PER FLOOR:
 13,500 SF (TABLE 503)
 1.1.2 AREA INCREASE—SPRINKLER:
 N/A SF (SECT. 506.3)
 1.1.3 AREA INCREASE—FRONTAGE:
 11%, 1,485 SF (SECT. 506.2)
 1.1.4 TOTAL ALLOWABLE AREA:
 14,985 SF (SECT. 506.1)

DETAILED ALLOWABLE AREA CALCULATION
 1. $A_d = A_i + [(A_i \times I_f) / 100 + (A_i \times I_s) / 100]$
 2. $A_i =$ ALLOWABLE TABULAR AREA PER FLOOR (SF)
 3. $I_f =$ AREA INCREASE DUE TO FRONTAGE
 4. $I_s =$ AREA INCREASE DUE TO SPRINKLER PROTECTION
 5. $I_f = 100[F / P - 0.25] \times W / 30$
 WHERE:
 6. $I_f =$ AREA INCREASE DUE TO FRONTAGE
 7. $F =$ BUILDING PERIMETER WHICH FRONTS ON A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET OPEN MINIMUM (FT)
 8. $P =$ PERIMETER OF ENTIRE BUILDING (FT)
 9. $W =$ WIDTH OF PUBLIC WAY OR OPEN SPACE (FT)

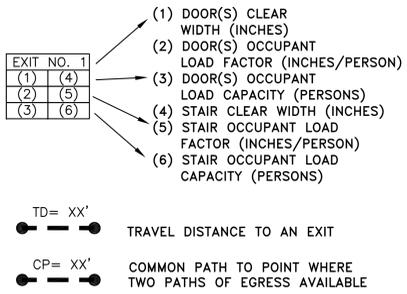
BUILDING FRONTAGE CALCULATION
 1. $F = 154$ FT
 2. $P = 428$ FT
 3. $W = 30$ FT
 4. $I_f = 100 [154 / 428 - 0.25] \times 30 / 30 = 11\%$

SUM OF RATIOS OF EACH OCCUPANCY
 GROUP S-2 = 9,265 SF ACTUAL AREA
 GROUP S-2 = 14,985 SF ALLOWABLE AREA
 RATIO = 9,265 / 14,985 = 0.62
 TOTAL = 0.62 < 1.0
 COMPLIANT = YES

CODE ANALYSIS – GENERAL

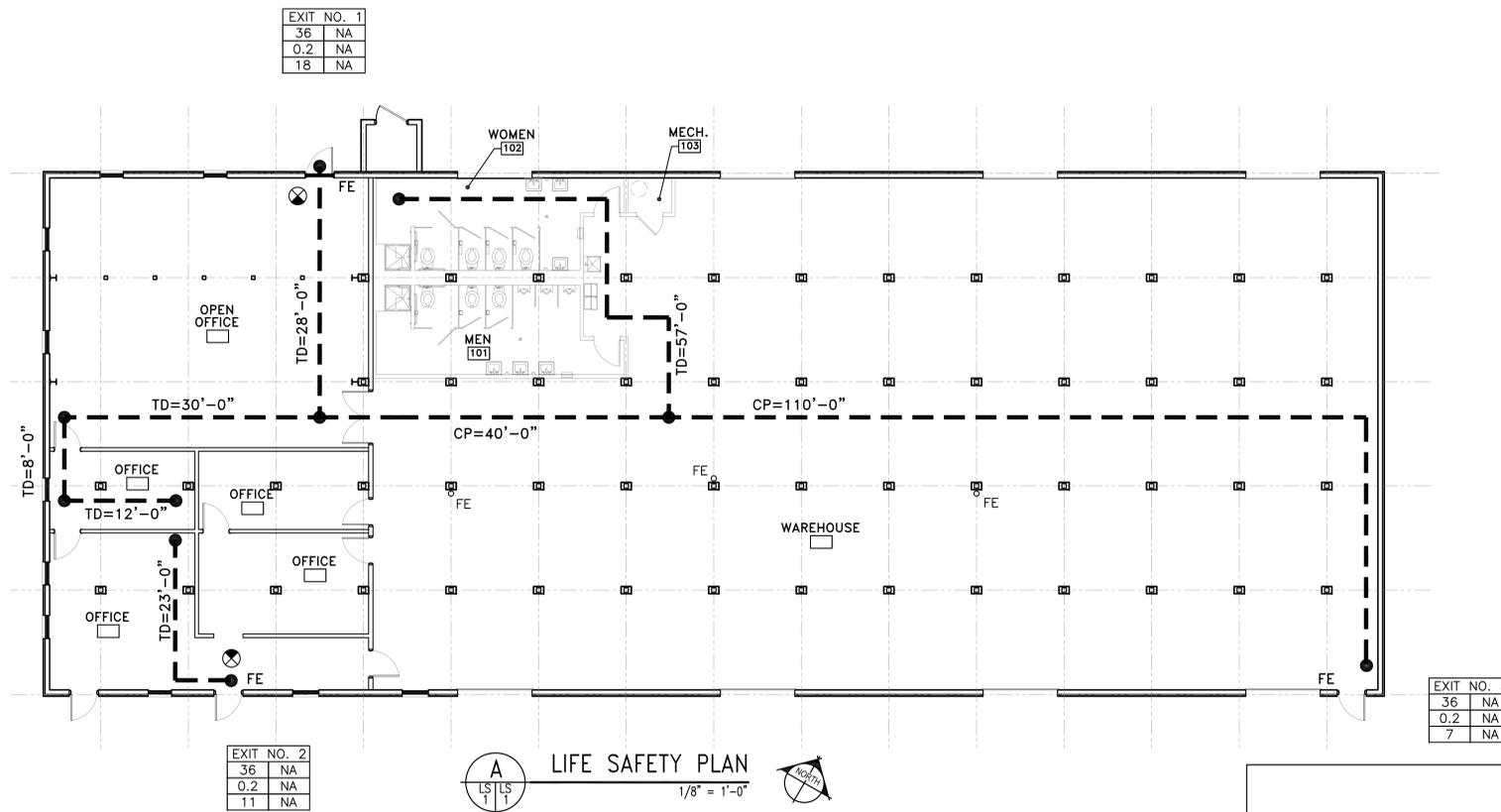
BASIC BUILDING DESCRIPTION
 1. FIRST FLOOR – 9,265 SF
 2. BUILDING HEIGHT – APPROX. 19'-0"

APPLICATION CODES
 1. 2009 EDITION OF THE INTERNATIONAL BUILDING CODE
 2. 2009 EDITION OF THE INTERNATIONAL FIRE CODE
 3. NFPA 70, NATIONAL ELECTRICAL CODE – 2008 EDITION
 4. NFPA 72, NATIONAL FIRE ALARM CODE – 2010 EDITION
 5. NFPA 101, LIFE SAFETY CODE – 2009 EDITION
 6. UNIFIED FACILITIES CRITERIA (UFC)



NOTES

1. BUILDING NOT REQUIRED TO HAVE FIRE ALARM SYSTEM PER NFPA 101, SECTION 42.3.4.1.1 AND 42.3.4.1.2.



LEGEND

FE FIRE EXTINGUISHER
 ☉ LIGHTED EXIT SIGN

NUMBER AND ARRANGEMENT OF EXITS

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM NUMBER OF EXITS		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS	
	REQUIRED (LSC 39.2.4.3)	SHOWN ON PLAN	ALLOWABLE TRAVEL DISTANCE (LSC 39.2.4.3(2))	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
STORAGE (S-2)	2	3	NL	180'	65'-0"	60'-0"

EXIT WIDTH

USE GROUP OR SPACE DESCRIPTION	(a) AREA ¹ sq.ft.	(b) AREA ¹ PER OCCUPANT (LSC TBL 7.3.1.2)	CALCULATED OCCUPANT LOAD	(c) EGRESS WIDTH PER OCCUPANT (LSC TBL 7.3.3.1)	EXIT WIDTH (in) 2.3.4.5.6		
					REQUIRED WIDTH (LSC SECTION 7.3.4.1) (a/b) x c	ACTUAL WIDTH SHOWN ON PLANS	STAIR LEVEL
STORAGE (S-2)	9,265 SF	500 GROSS	14	0.2	36	72	



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 APPROVED: PWO OR OICC DATE: 6-4-12

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
 CAMP LEJEUNE, NORTH CAROLINA
 ADDITIONS OF HEADS
 TO BUILDING M112
 LIFE SAFETY PLAN & CODE ANALYSIS
 NAVFAC DRAWING NO. 60010133
 CONST. CONTR. NO. N40085-12-B-0019
 SCALE: NOTED SPEC. 12-0019 SHEET 2 OF 11

LS-1

SYM	REVISIONS	DATE APPROVED



EXISTING	DESCRIPTION	NEW
⊕	COMMUNICATION MANHOLE	
⊕	ELECTRIC MANHOLE	
⊕	STORM MANHOLE	
⊕	SANITARY SEWER CLEAN OUT	
⊕	SEWER MANHOLE	
⊕	DROP INLET & INLET PROTECTION	
⊕	FIRE HYDRANT	
⊕	WATER VALVE	
⊕	TR	
⊕	TELEPHONE PEDESTAL	
⊕	UTILITY POLE	
⊕	LIGHT POLE	
⊕	GUY WIRE	
⊕	SURVEY CONTROL POINT	
⊕	SANITARY SEWER	
⊕	STORM SEWER	
⊕	DOMESTIC WATER	
⊕	OVERHEAD ELECTRICAL	
⊕	UNDERGROUND ELECTRICAL	
⊕	6" GAS	
⊕	UNDERGROUND TELEPHONE	
⊕	UNDERGROUND STEAM	
⊕	DITCH/SWALE	
⊕	BITUMINOUS CONCRETE PAVEMENT	
⊕	CONCRETE	
⊕	GRAVEL	
⊕	TEMPORARY BENCHMARK	
⊕	SPOT ELEVATIONS	
⊕	CONTOUR LINES	
⊕	TREE	
⊕	SIGN	
⊕	FENCE	
⊕	SILT FENCE	
⊕	DEMOLITION ITEMS	
⊕	SOURCE/DESTINATION UNKNOWN	

ABBREVIATIONS	
A/C	AIR CONDITIONER
CL/C/L	CENTER LINE
C/I	CURT BORN
DCL	DITCH CENTERLINE
DI	DROP INLET
ELEV	ELEVATION
FTE	FINISH FLOOR ELEVATION
INV	INVERT
MAX	MAXIMUM
MN	MANHOLE
MIN	MINIMUM
NCDOT	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
OHE	OVERHEAD ELECTRICAL
OC	ON CENTER
RCP	REINFORCED CONCRETE PIPE
TBM	TEMPORARY BENCHMARK
TYP	TYPICAL
±	PLUS OR MINUS
%	PERCENT

GENERAL CONSTRUCTION NOTES:

- THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCANNING THE AREA OF WORK TO IDENTIFY TO HIS OWN SATISFACTION THE EXTENT OF UTILITIES PRESENT INCLUDING THE UTILITIES INDICATED TO BE PRESENT, THOSE NOT SHOWN, AND THOSE SHOWN TO BE IN A DIFFERENT LOCATION.
- PHYSICAL SITE FEATURES OUTSIDE THE AREA OF WORK OR THOSE FEATURES NOT RELEVANT TO THE WORK BEING PERFORMED ARE NOT SHOWN FOR CLARITY.
- ALL EXISTING VEGETATED AREAS DISTURBED DURING CONSTRUCTION SHALL BE REVEGETATED IN ACCORDANCE WITH THE PROJECT VEGETATION PLAN, SEE DETAIL B, SHEET C-2.

NEW WORK ITEMS:

- PAVEMENT CUT & PATCH - SEE DETAIL A, SHEET C-2.
- NEW 6" x 2" SERVICE SADDLE & VALVE - SEE DETAIL C, SHEET C-2 AND SPECIFICATIONS.
- THRUST BLOCK - SEE DETAIL D, SHEET C-2.
- NEW SEWER CLEAN OUT - SEE DETAIL E, SHEET C-2.
- PROVIDE ALL TRENCHING IN ACCORDANCE WITH DETAIL F, SHEET C-2.
- CONNECT 6" PVC TO EXISTING MANHOLE.
- EXERCISE CARE WHEN EXCAVATING AROUND UTILITY POLE. PROVIDE TEMPORARY SUPPORT DURING CONSTRUCTION.
- EXISTING WATER SERVICE TO BE CAPPED AT BOTH ENDS AND ABANDONED IN PLACE.
- TERMINATE NEW 2" DOMESTIC WATER 5' OUTSIDE OF BUILDING. SEE PLUMBING PLANS, SHEET P-1 FOR CONTINUATION.
- TERMINATE NEW 6" SEWER 5' OUTSIDE OF BUILDING. SEE PLUMBING PLANS, SHEET P-1 FOR CONTINUATION.

NC GRID INV. 2007
VERTICAL DATUM: MVD 1988

A SITE PLAN
C-1 SCALE: 1" = 20'



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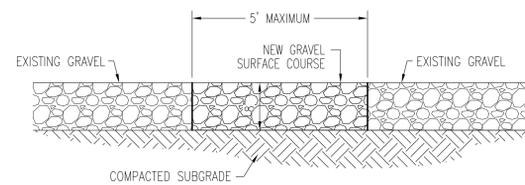
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ADDITIONS OF HEADS
TO BUILDING M112
SITE PLAN
APPROVED: PWO OR OICC DATE SIZE CODE IDENT. NO. NAVFAC DRAWING NO.
60010134
CONST. CONTR. NO. N40085-12-B-0019

SCALE: NOTED SPEC. 05-12-0019 SHEET 3 OF 11

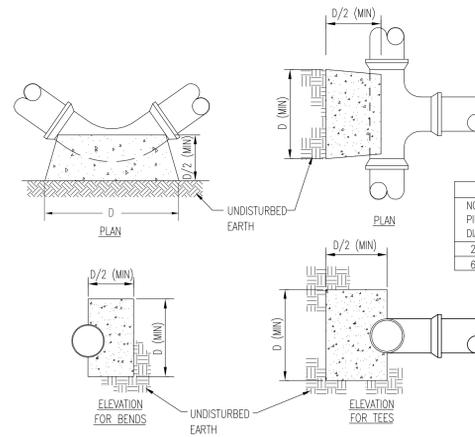
C-1

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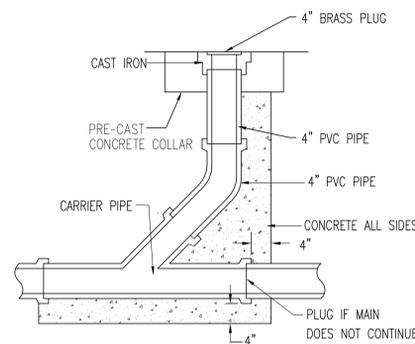
TYPICAL REPAIR OF GRAVEL CUT

A CUT & PATCH
C-1 C-2
NOT TO SCALE



NOM. PIPE DIA.	THRUST BLOCK DIMENSION D (IN FEET)				
	DEAD END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
2"	1.0	1.2	1.0	0.7	0.7
6"	2.1	2.3	1.7	1.2	0.8

D THRUST BLOCK
C-1 C-2
NOT TO SCALE



E SEWER CLEANOUT
C-1 C-2
NOT TO SCALE

TEMPORARY VEGETATIVE SEEDING (PRIOR TO ESTABLISHING PERMANENT VEGETATION)

AFTER COMPLETION OF GRADING ACTIVITIES AND THE CONSTRUCTION OF SWALES, ALL EXPOSED AREAS SHALL BE SEED TO THE FOLLOWING SPECIFICATIONS:

SEED BED	
LIME	1-1/2 TON PER ACRE
FERTILIZER	1/2-TON PER ACRE
SEED	
RYE GRAIN	50 LBS PER ACRE
TALL FESCUE	100 LBS PER ACRE

SUPPLEMENTAL SEED
MAY THROUGH AUGUST:
CENTIPEDE 5 LBS PER ACRE

PROCEDURE

STRAW MULCH SHALL BE APPLIED AT A RATE WHICH WILL INSURE APPROXIMATELY 75% COVERAGE OF THE SEEDED AREA. THE STRAW AND SOWN SEED WILL BE LIGHTLY DISCED INTO THE BED TO GIVE IT FURTHER RESISTANCE TO BLOWING AND WASHING.

THE CONTRACTOR SHALL GUARANTEE A FULL STAND OF GRASS OVER THE ENTIRE DISTURBED AREA. IF NECESSARY THE CONTRACTOR WILL WET DOWN THE AREAS TO ASSIST IN SEED GERMINATION OR AID IN GROWTH IN TIMES OF EXCESSIVELY DRY WEATHER. A STAND OF GRASS WILL BE CONSIDERED ACCEPTABLE WHEN THE ENTIRE STAND OF GRASS IS AT LEAST FOUR INCHES HIGH AND HAS ACHIEVED AT LEAST 95% COVERAGE OF DISTURBED AREAS. RESEEDING WILL BE REQUIRED AS NECESSARY BY THE CONTRACTOR TO OBTAIN THE SPECIFIED STAND OF GRASS.

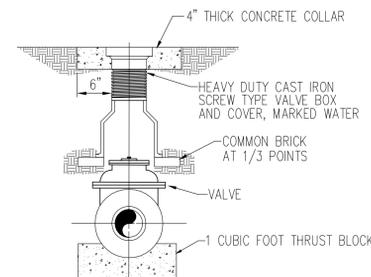
PERMANENT VEGETATION

ALL DISTURBED AREAS NOT COVERED WITH BUILDINGS, PAVEMENTS, OR OTHER IMPERMEABLE SURFACES SHALL BE SODED AS THE FINAL/PERMANENT VEGETATION.

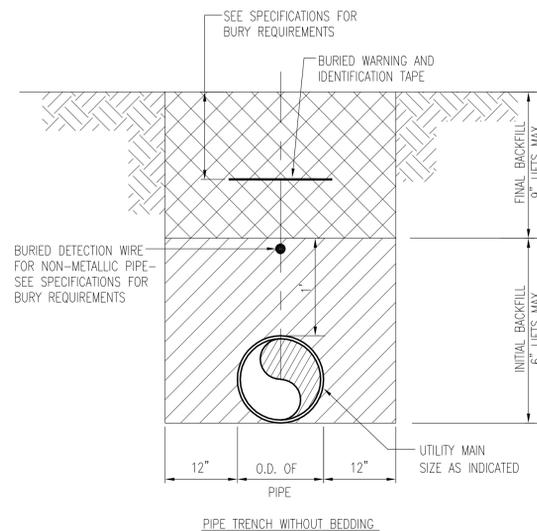
SPECIAL SEEDING NOTE:

CUT & FILL SLOPES WILL, WITHIN 7 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED AND PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.

B VEGETATION PLAN
C-1 C-2
NOT TO SCALE



C VALVE AND VALVE BOX
C-1 C-2
NOT TO SCALE



F PIPE TRENCH SECTION
C-1 C-2
NOT TO SCALE

C-2

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MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

DES. J.K. AVOLIS
DR. MSP/WFF
CHK. J.C. AVOLIS
SUBMITTED BY:

ADDITIONS OF HEADS
TO BUILDING M112
SITE DETAILS

DESIGN DIR. B. MARSHBURN

APPROVED: PWO OR OICC DATE SIZE CODE IDENT. NO. NAVFAC DRAWING NO. 60010135

SATISFACTORY TO: DATE

CONST. CONTR. NO. N40085-12-B-0019

SCALE: NOTED

SPEC. 12-0019 SHEET 4 OF 11



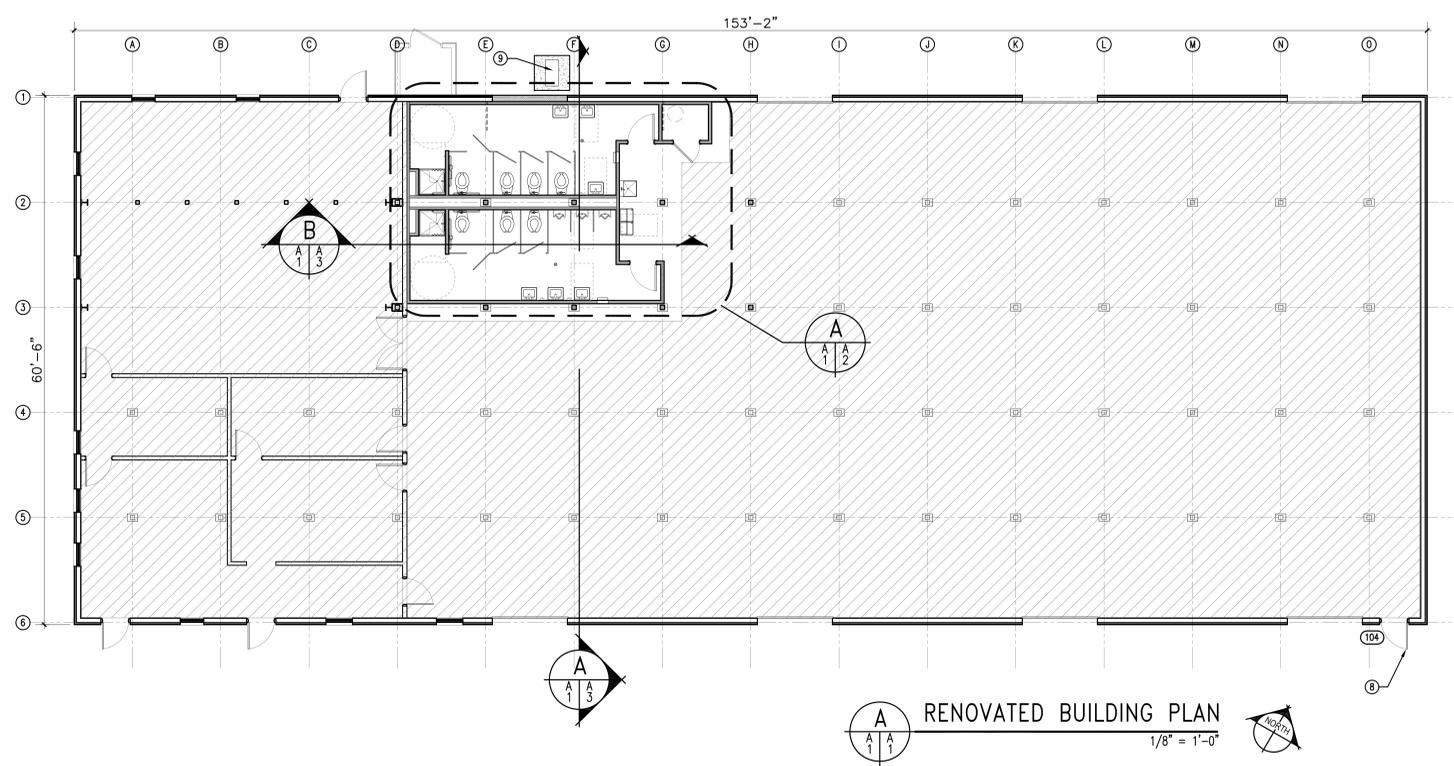
SYM	REVISIONS	DATE APPROVED

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
2. SEE PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR ADDITIONAL NOTES.
3. INSTALL NEW ELECTRICAL WIRING, BOXES, RECEPTACLES, SWITCHES, AND COVERS PER ELECTRICAL DRAWINGS.
4. CONTRACTOR TO PROVIDE BRACING FOR WALL HUNG TOILETS, URINALS, AND SINKS.

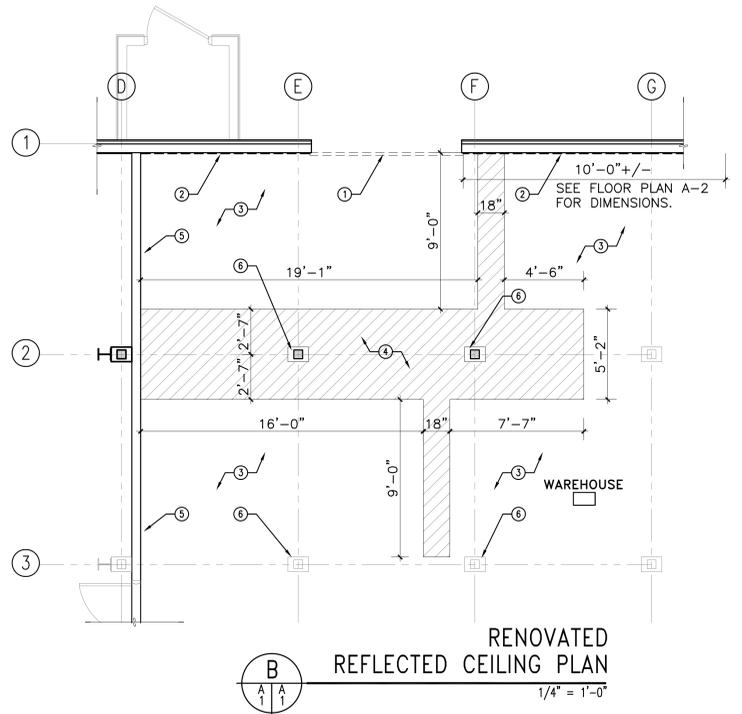
CONSTRUCTION NOTES

MARK	DESCRIPTION
①	DEMOLISH AND REMOVE EXISTING 8'x8' OVERHEAD COILING DOOR. RELEASE DOOR TO GOVERNMENT. PREPARE OPENING FOR NEW FINISH TO MATCH EXISTING.
②	DEMOLISH AND REMOVE EXISTING HARDBOARD FINISH, AS INDICATED, TO EXISTING WOOD STUDS. PREPARE FOR NEW WALL, SEE FLOOR PLAN A-2.
③	EXISTING CONCRETE FLOOR TO REMAIN. PREPARE FOR NEW FLOOR FINISH, SEE NEW FLOOR PLAN AND FINISH SCHEDULE.
④	SAWCUT, DEMOLISH, AND REMOVE CONCRETE (APPROX. 2 CY) TO INSTALL NEW PLUMBING LINES. SEE PLUMBING DRAWINGS. CONTRACTOR TO VERIFY QUANTITIES IN THE FIELD.
⑤	EXISTING WOOD STUD WALL TO REMAIN.
⑥	EXISTING 6" x 6" WOOD STRUCTURAL COLUMN AND CONCRETE BASE TO REMAIN.
⑦	5/8" GYPSUM BOARD, FINISH AND PAINT. SEE FINISH SCHEDULE FOR ADDITIONAL NOTES.
⑧	DEMOLISH AND REMOVE EXISTING 2x4 WOOD STUD AND VINYL SIDING FOR NEW 3'-0"x7'-0" HOLLOW METAL FRAME AND EXTERIOR INSULATED STEEL DOOR.
⑨	INSTALL NEW 4'x4'x4" CONCRETE SLAB WITH TURN DOWN EDGE FOR NEW CONDENSOR UNIT, SEE MECHANICAL FOR ADDITIONAL NOTES.
⑩	EXISTING STRUCTURAL MEMBER TO REMAIN. PAINT TO MATCH NEW ADJACENT WALL, SEE FINISH SCHEDULE FOR ADDITIONAL NOTES.
⑪	STRUCTURAL MEMBER TO REMAIN.
⑫	INSTALL NEW LIGHTING. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.

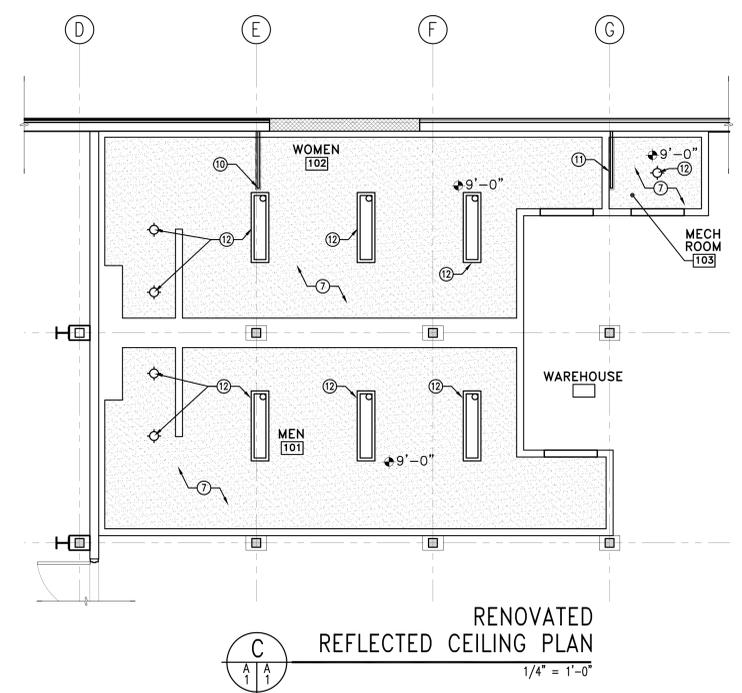


A RENOVATED BUILDING PLAN
1/8" = 1'-0"

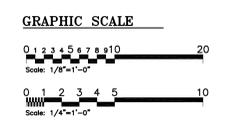
NOT IN SCOPE OF WORK



B RENOVATED REFLECTED CEILING PLAN
1/4" = 1'-0"



C RENOVATED REFLECTED CEILING PLAN
1/4" = 1'-0"



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DES. M. SKOPAK	DR. M. SKOPAK	ADDITIONS OF HEADS TO BUILDING M112 BUILDING PLAN, DEMOLITION PLAN, AND REFLECTED CEILING PLAN	
CHK. B. WALKER	SUBMITTED BY: J. WALKER	DESIGN DIR. B. MARSHBURN	NAVFAC DRAWING NO. 60010136 CONST. CONTR. NO. N40085-12-B-0019
APPROVED: PWO OR OICC	DATE	SIZE CODE IDENT. NO	SCALE: NOTED SPEC. 12-0019 SHEET 5 OF 11

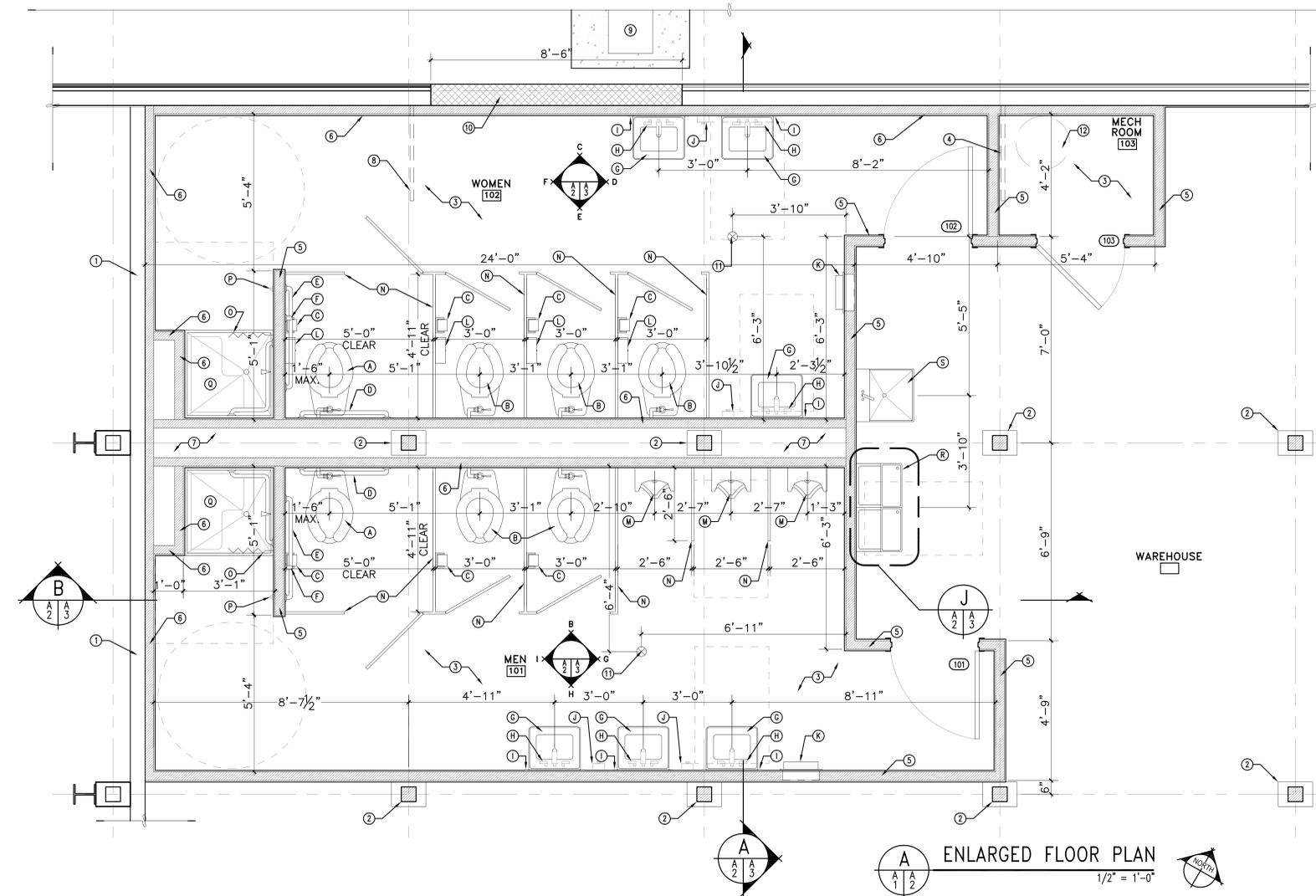
A-1

GENERAL NOTES

- CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
- SEE PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR ADDITIONAL NOTES.
- INSTALL NEW ELECTRICAL WIRING, BOXES, RECEPTACLES, SWITCHES, AND COVERS PER ELECTRICAL DRAWINGS.
- CONTRACTOR TO PROVIDE BRACING FOR WALL HUNG TOILETS, URINALS, AND SINKS.

CONSTRUCTION NOTES

- | MARK | DESCRIPTION |
|------|--|
| 1 | EXISTING WOOD STUD WALL TO REMAIN. |
| 2 | EXISTING 6" x 6" WOOD STRUCTURAL COLUMN AND CONCRETE BASE TO REMAIN. |
| 3 | EXISTING CONCRETE FLOOR TO REMAIN. PREPARE AND INSTALL NEW EPOXY COATING FLOOR FINISH, SEE FINISH SCHEDULE. |
| 4 | STRUCTURAL MEMBER TO REMAIN. |
| 5 | 2x4 WOOD STUDS @ 16" OC WITH 5/8" GYPSUM BOARD EACH SIDE AND R-13 BATT INSULATION BETWEEN STUDS, FINISH AND PAINT. |
| 6 | 2x4 WOOD STUDS @ 16" OC WITH 5/8" GYPSUM BOARD ONE SIDE AND BATT INSULATION BETWEEN STUDS, FINISH AND PAINT. |
| 7 | CONTRACTOR TO PLACE NEW 3000# CONCRETE 4" THICK TO FILL EXCAVATED PLUMBING TRENCH, SEE DEMOLITION PLAN. FINISH CONCRETE TO MATCH EXISTING. |
| 8 | EXISTING STRUCTURAL MEMBER TO REMAIN. PAINT TO MATCH NEW ADJACENT WALL. |
| 9 | INSTALL NEW 4"x4"x4" CONCRETE SLAB WITH TURN DOWN EDGE FOR NEW CONDENSOR UNIT, SEE MECHANICAL FOR ADDITIONAL NOTES. |
| 10 | INFILL OPENING WITH 2x6 WOOD STUDS @ 16" O.C. WITH R-19 BATT INSULATION BETWEEN STUDS. PROVIDE 1/2" PLYWOOD SHEATHING AND INSTALL EXTERIOR VINYL LAP SIDING TO MATCH EXISTING. INSTALL 5/8" GYP. BD. ON INTERIOR, FINISH AND PAINT. PROVIDE PRESSURE TREATED LUMBER AT BOTTOM PLATE. |
| 11 | INSTALL NEW FLOOR DRAIN, SEE PLUMBING. |
| 12 | NEW WATER HEATER. SEE MECHANICAL FOR ADDITIONAL NOTES. |



ENLARGED FLOOR PLAN
1/2" = 1'-0"

TOILET ACCESSORIES SCHEDULE

MARK	DESCRIPTION	MOUNTING INSTRUCTIONS
1	FLUSH VALVE ADA TOILET	1'-5" TO 1'-7" A.F.F. TO RIM, C TO BE 18" FROM SIDE WALL
2	FLUSH VALVE TOILET	1'-5" TO 1'-7" A.F.F. TO RIM
3	SURFACE-MOUNTED TOILET TISSUE DISP.	22" A.F.F. TO CENTER, 36" FROM REAR WALL
4	36" GRAB BAR	33"-36" A.F.F. TO CENTER, 6" MAX. FROM CORNER
5	42" GRAB BAR	33"-36" A.F.F. TO CENTER, 12" MAX. FROM CORNER
6	18" GRAB BAR	BOTTOM OF BAR @ 39"-41" A.F.F. W/ C 39"-41" FROM REAR WALL
7	WALL-HUNG SINK	34" A.F.F. TO RIM
8	LEVER ACTION FAUCET	MOUNT PER SINK TYPE
9	STAINLESS STEEL CHANNEL FRAMED MIRROR (24X36)	40" A.F.F. TO TOP OF BACKSPLASH
10	WALL-MOUNTED SOAP DISPENSER	48" A.F.F. TO DISP. SPOUT
11	SEMI-RECESSED TOWEL DISP./ WASTE RECEPTACLE	48" A.F.F., MAX. TO DISP.
12	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	MOUNT 15" A.F.F. MIN 7"-9" FROM TOILET TISSUE DISP.
13	WALL-MOUNTED URINAL	17" A.F.F., MAX. TO RIM
14	TOILET PARTITION / URINAL SCREEN	CLEAR WIDTH AS SHOWN ON PLAN.
15	SHOWER ROD AND CURTAIN	74" A.F.F. TO CENTER OF ROD
16	CLOTHES HOOK	48" A.F.F. TO CENTER
17	36x36 ACCESSIBLE SHOWER UNIT WITH SEAT	1/2" MAX. HIGH CURB/THRESHOLD. SEE INT. ELEV. FOR MOUNTING HT.
18	ELECTRIC WATER COOLER	REFER TO DETAIL 'J' ON SHEET A-3.
19	UTILITY SINK	SEE PLUMBING

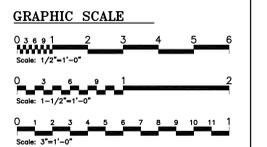
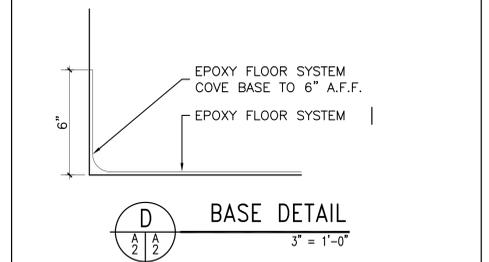
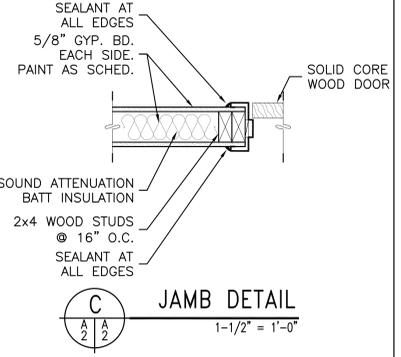
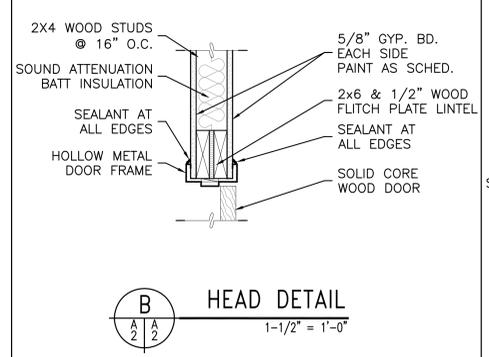
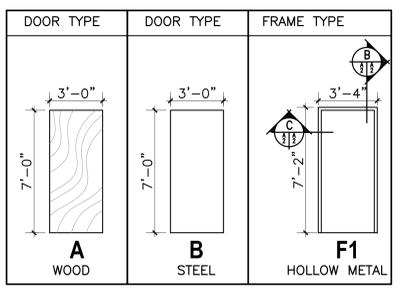
DOOR SCHEDULE

NOTE: CONTRACTOR SHALL FIELD VERIFY ALL DOOR AND FRAME DIMENSIONS IN FIELD PRIOR TO ORDERING UNITS. SEE PLAN LOCATIONS FOR SPECIFIC HANDLING AND ORIENTATION.

DOOR DATA		FRAME DATA DETAILS									
NUM.	TYPE	SIZE	THK.	MATRL.	TYPE	MATRL.	HEAD	JAMB	SILL	HARDWARE	REMARKS
101	A	3'-0"x7'-0"	1-3/4"	WD.	F1	H.M.	B/A-2	C/A-2	-	3	
102	A	3'-0"x7'-0"	1-3/4"	WD.	F1	H.M.	B/A-2	C/A-2	-	3	
103	A	3'-0"x7'-0"	1-3/4"	WD.	F1	H.M.	B/A-2	C/A-2	-	1	
104	B	3'-0"x7'-0"	1-3/4"	STL	F1	H.M.	B/A-2	C/A-2	-	2	EXTERIOR INSULATED STEEL DOOR

FINISH SCHEDULE

ROOM	FLOOR	BASE	WALL	CEILING
101 MEN	EPOXY COATING	D/A-2	GYP. BD., PAINT / TILE	GYP. BD., PAINT
102 WOMEN	EPOXY COATING	D/A-2	GYP. BD., PAINT / TILE	GYP. BD., PAINT
103 MECH. ROOM	EPOXY COATING	D/A-2	GYP. BD., PAINT	GYP. BD., PAINT



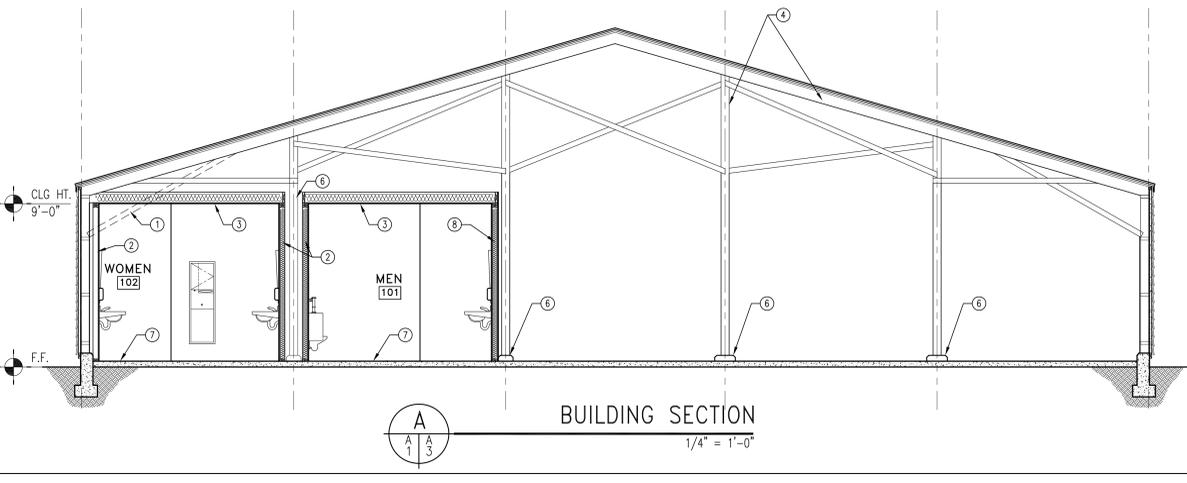
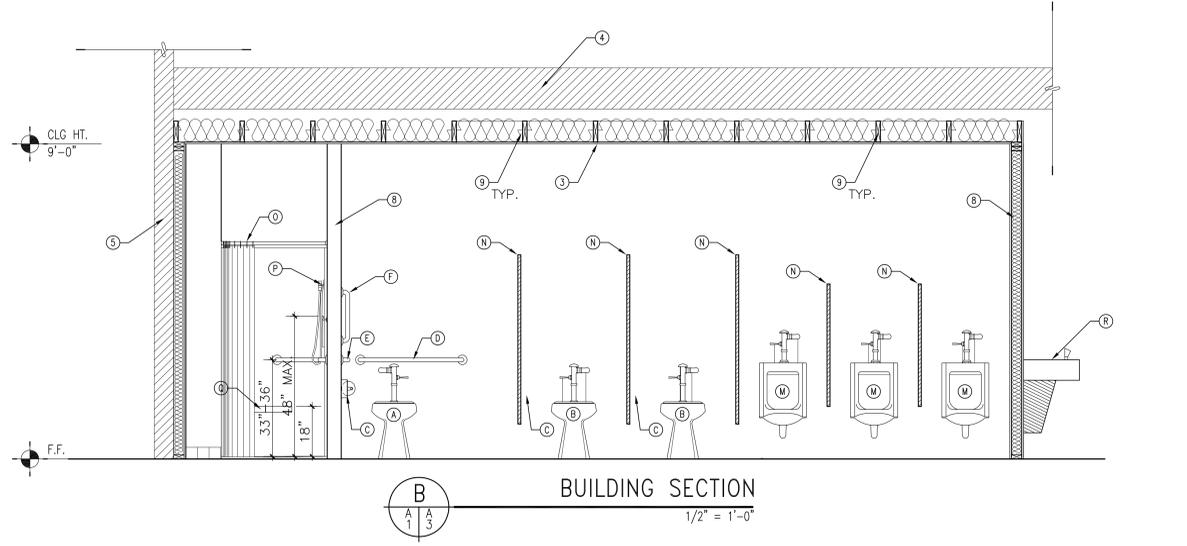
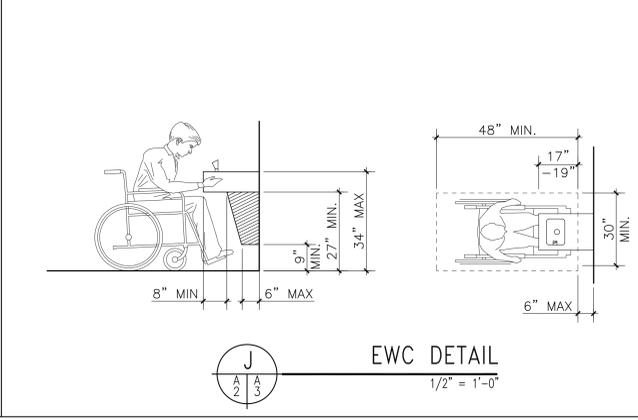
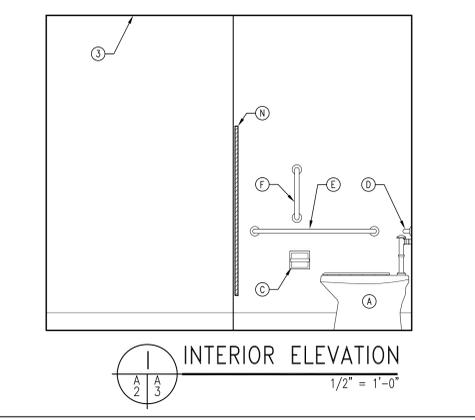
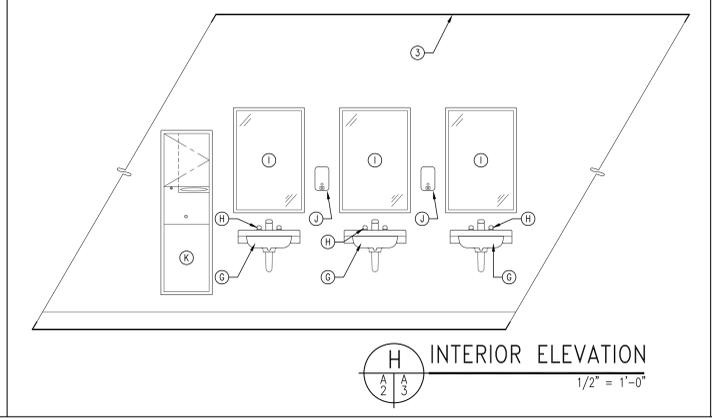
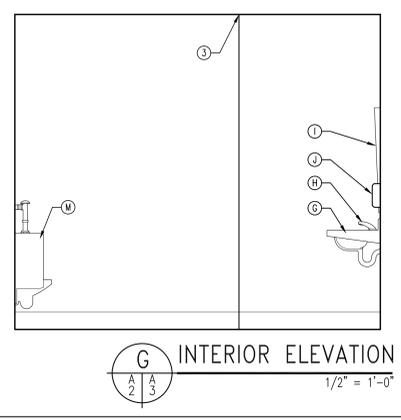
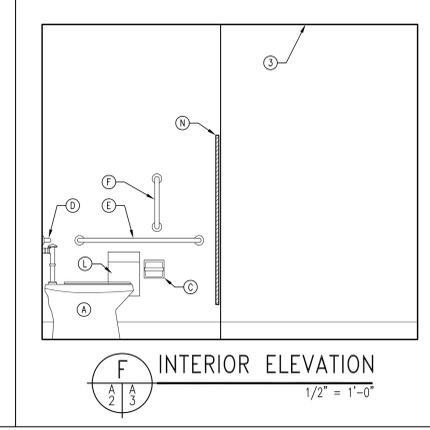
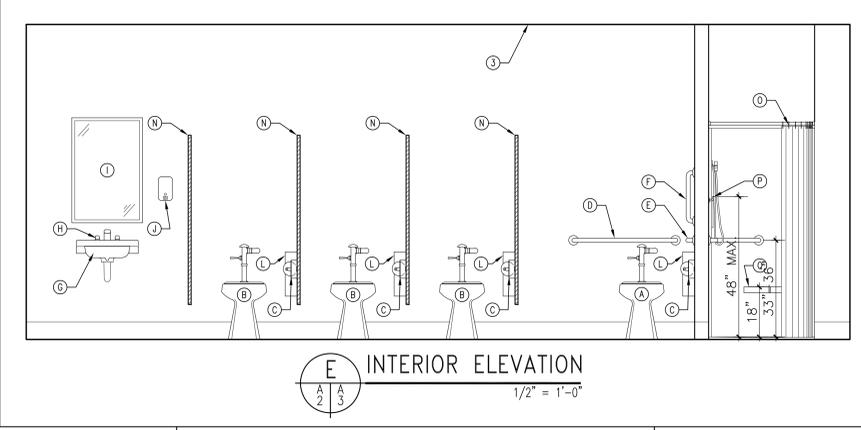
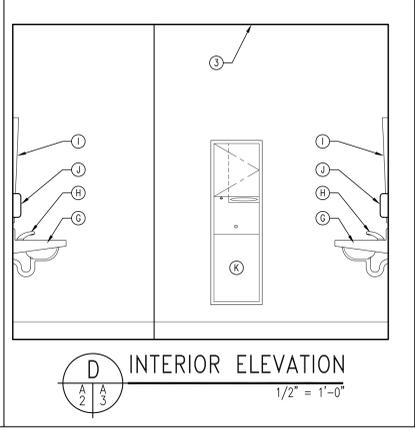
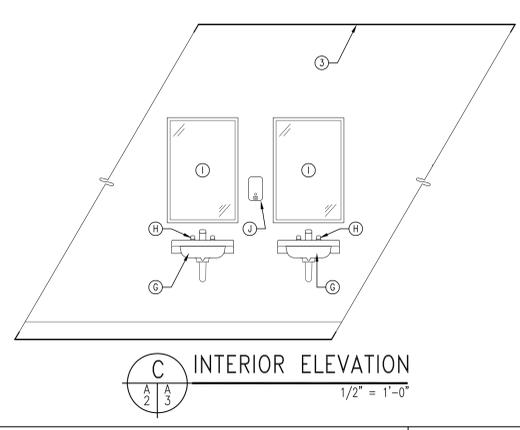
The Walker Group Architecture, Inc. WALKER GROUP ARCHITECTURE PO Box 541, New Bern, NC 28563 252.638.8778 (PHONE) 252.638.8992 (FAX)		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. M. SKOPAK	DR. M. SKOPAK	ADDITIONS OF HEADS	
CHK. B. WALKER	TO BUILDING M112		
SUBMITTED BY: J. WALKER	ENLARGED PLAN, DETAILS, AND SCHEDULES		
DESIGN DIR. B. MARSHBURN	APPROVED: PWO OR OICC	DATE	SIZE CODE IDENT. NO. NAVFAC DRAWING NO. 60010137
SATISFACTORY TO:	DATE	SCALE: NOTED	SPEC. 12-0019 SHEET 6 OF 11

GENERAL NOTES

- CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
- SEE PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR ADDITIONAL NOTES.
- INSTALL NEW ELECTRICAL WIRING, BOXES, RECEPTACLES, SWITCHES, AND COVERS PER ELECTRICAL DRAWINGS.
- CONTRACTOR TO PROVIDE BRACING FOR WALL HUNG TOILETS, URINALS, AND SINKS.

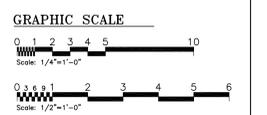
CONSTRUCTION NOTES

- | MARK | DESCRIPTION |
|------|---|
| ① | EXISTING STRUCTURAL MEMBER TO REMAIN. PAINT TO MATCH NEW ADJACENT WALL. |
| ② | 2x4 WOOD STUDS @ 16" OC WITH 5/8" GYPSUM BOARD ONE SIDE AND BATT INSULATION BETWEEN STUDS, FINISH AND PAINT. |
| ③ | FINISH AND PAINT MOISTURE RESISTANT 5/8" GYPSUM BOARD ON UNDERSIDE OF 2x8 CEILING JOISTS @ 24" O.C. WITH R-19 INSULATION, FINISH AND PAINT. |
| ④ | EXISTING WOOD STRUCTURE TO REMAIN. |
| ⑤ | EXISTING WOOD STUD WALL TO REMAIN. |
| ⑥ | EXISTING 6"x6" WOOD STRUCTURAL COLUMN AND CONCRETE BASE TO REMAIN. |
| ⑦ | CONTRACTOR TO INSTALL NEW EPOXY FLOOR COATING SEE FINISH SCHEDULE. |
| ⑧ | 2x4 WOOD STUDS @ 16" OC WITH 5/8" GYPSUM BOARD EACH SIDE AND R-13 BATT INSULATION BETWEEN STUDS, FINISH AND PAINT. |
| ⑨ | 2X8 WOOD CEILING JOIST @ 24' O.C., BEAR ON 2X4 WOOD STUD. |



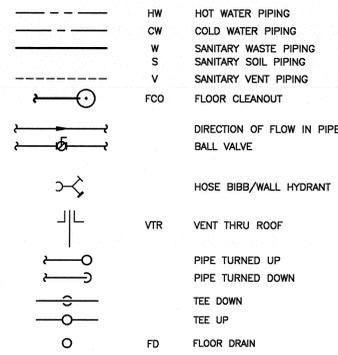
TOILET ACCESSORIES SCHEDULE

MARK	DESCRIPTION	MOUNTING INSTRUCTIONS
Ⓐ	FLUSH VALVE ADA TOILET	1'-5" TO 1'-7" A.F.F. TO RIM, Ⓞ TO BE 18" FROM SIDE WALL
Ⓑ	FLUSH VALVE TOILET	1'-5" TO 1'-7" A.F.F. TO RIM
Ⓒ	SURFACE-MOUNTED TOILET TISSUE DISP.	22" A.F.F. TO CENTER, 36" FROM REAR WALL
Ⓓ	36" GRAB BAR	33"-36" A.F.F. TO CENTER, 6" MAX. FROM CORNER
Ⓔ	42" GRAB BAR	33"-36" A.F.F. TO CENTER, 12" MAX. FROM CORNER
Ⓕ	18" GRAB BAR	BOTTOM OF BAR @ 39"-41" A.F.F. W/ Ⓞ 39"-41" FROM REAR WALL
Ⓖ	WALL-HUNG SINK	34" A.F.F. TO RIM
Ⓗ	LEVER ACTION FAUCET	MOUNT PER SINK TYPE
Ⓘ	STAINLESS STEEL CHANNEL FRAMED MIRROR (24X36)	40" A.F.F. TO TOP OF BACKSPLASH
Ⓚ	WALL-MOUNTED SOAP DISPENSER	48" A.F.F. TO DISP. SPOUT
Ⓛ	SEMI-RECESSED TOWEL DISP./ WASTE RECEPTACLE	48" A.F.F., MAX. TO DISP.
Ⓜ	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	MOUNT 15" A.F.F. MIN 7"-9" FROM TOILET TISSUE DISP.
Ⓝ	WALL-MOUNTED URINAL	17 A.F.F., MAX. TO RIM
Ⓞ	TOILET PARTITION / URINAL SCREEN	CLEAR WIDTH AS SHOWN ON PLAN.
Ⓟ	SHOWER ROD AND CURTAIN	74" A.F.F. TO CENTER OF ROD
Ⓠ	CLOTHES HOOK	48" A.F.F. TO CENTER
Ⓡ	36x36 ACCESSIBLE SHOWER UNIT WITH SEAT	1/2" MAX. HIGH CURB/THRESHOLD. SEE INT. ELEV. FOR MOUNTING HT.
Ⓢ	ELECTRIC WATER COOLER	REFER TO DETAIL 'J' ON SHEET A-3.
Ⓣ	UTILITY SINK	SEE PLUMBING



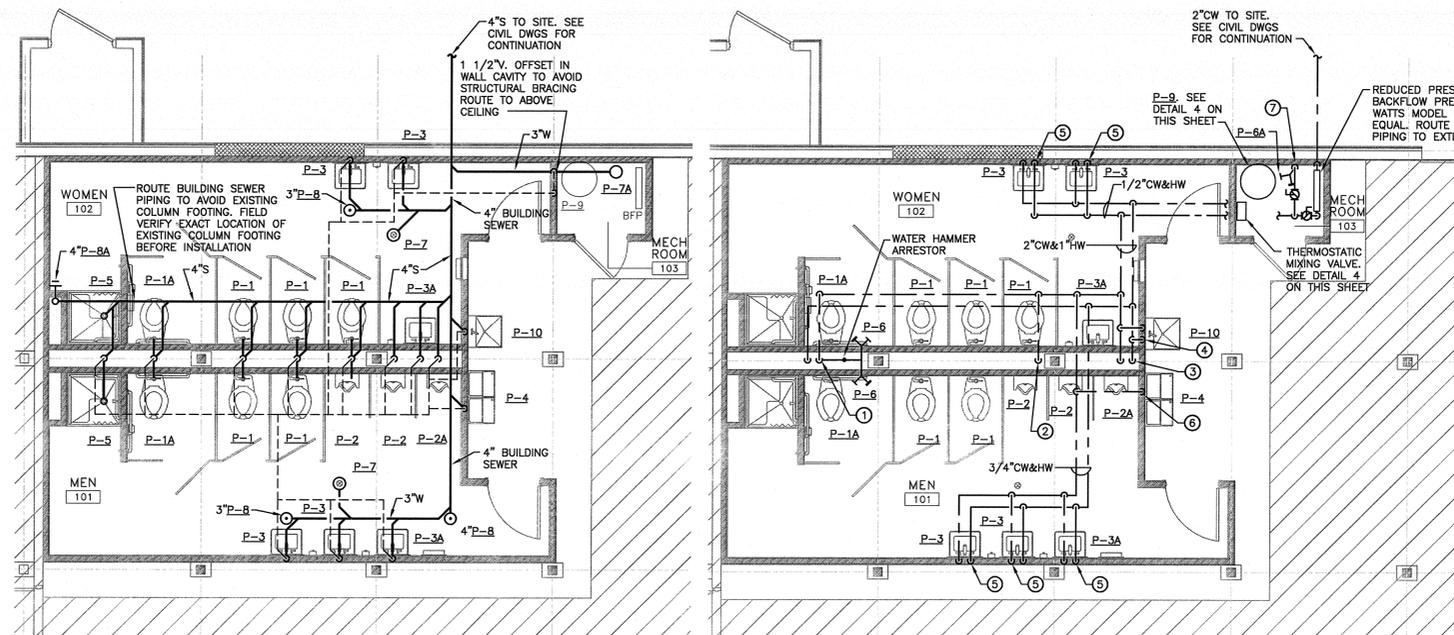
		A-3	
The Walker Group Architecture, Inc. WALKER GROUP ARCHITECTURE PO Box 541, New Bern, NC 28563 252.638.8778 (PHONE) 252.638.8992 (FAX)		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. M. SKOPAK	DR. M. SKOPAK	ADDITIONS OF HEADS TO BUILDING M112 SECTIONS AND INTERIOR ELEVATIONS	
CHK. B. WALKER	SUBMITTED BY: J. WALKER		
DESIGN DIR. B. MARSHBURN	APPROVED: PWO OR OICC	DATE	NAVFAC DRAWING NO. 60010138 CONST. CONTR. NO. N40085-12-B-0019
SATISFACTORY TO:		DATE	SCALE: NOTED SPEC. 12-0019 SHEET 7 OF 11

PLUMBING SYMBOLS LEGEND



GENERAL PLUMBING NOTES

- NOT ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS DRAWING MAY BE USED ON THIS PROJECT.
- UNLESS OTHERWISE NOTED ON DRAWINGS, ALL 1/2" & 2" SANITARY WASTE AND VENT PIPING SHALL BE RUN AT 1/4" PER FT SLOPE. ALL SANITARY WASTE AND VENT PIPING 3" AND LARGER SHALL BE RUN AT 1/8" PER FT SLOPE. ALL STORM DRAINAGE PIPING SHALL BE RUN AT 1/8" PER FT SLOPE.
- THE DESIGN/DETAIL/SCHEDULE SHOWN IS BASED ON MANUFACTURER & MODEL SPECIFIED AND IS INTENDED ONLY TO SHOW THE GENERAL SIZE, CONFIGURATION, LOCATION, CONNECTIONS, AND/OR SUPPORT FOR EQUIPMENT OR SYSTEMS SPECIFIED WITH RELATION TO THE OTHER BUILDING SYSTEMS.
- IN FINISHED AREAS, INSTALL ALL PIPING AT THE MAXIMUM ELEVATION POSSIBLE. PROVIDE ALL FITTINGS, TRANSITIONS AND MATERIALS REQUIRED TO ACHIEVE MAXIMUM ELEVATION. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO THE START OF WORK TO AVOID CONFLICTS.
- CONTRACTOR SHALL FURNISH ALL DISCONNECTS REQUIRED FOR PLUMBING EQUIPMENT.
- CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL MANUFACTURER SUBSTITUTIONS OF MECHANICAL EQUIPMENT. SUBMIT A DESCRIPTION OF ANY/ALL CHANGES REQUIRED BY THE SUBSTITUTION, INCLUDING ELECTRICAL AND PLUMBING CONNECTIONS, SIZES, WEIGHTS, AND CLEARANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL COST ASSOCIATED WITH THE SUBSTITUTION.
- THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS. THE CONTRACTOR SHALL INFORM THE GOVERNMENT OF ANY CONFLICTS AS SOON AS THEY ARE DETECTED.
- ANY SUPPORT WHICH IS HUNG FROM ANY JOIST SHALL BE HUNG FROM THE PANEL POINT OF THE JOIST. **NOTE:** DO NOT SUPPORT PIPING AND/OR DUCTWORK FROM BAR JOIST BRIDGING.
- THESE DRAWINGS ARE NECESSARILY DIAGRAMMATIC IN NATURE. NOT ALL FITTINGS, OFFSETS, VENTS, OR DRAINS ARE SHOWN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND INCLUDE ALL FITTINGS, OFFSETS, VENTS, AND DRAINS AS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM.



1 PLUMBING ENLARGED WASTE PLAN
1/4" = 1'-0"

2 PLUMBING ENLARGED WATER PLAN
1/4" = 1'-0"

SYM	REVISIONS	DATE APPROVED

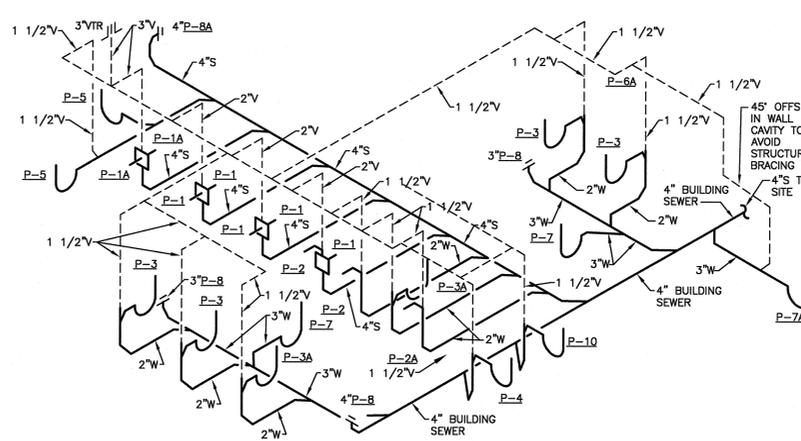
GENERAL NOTES

- PLUMBING CONTRACTOR SHALL SAWCUT EXISTING FLOOR SLAB TO INSTALL ALL PIPING BELOW SLAB.

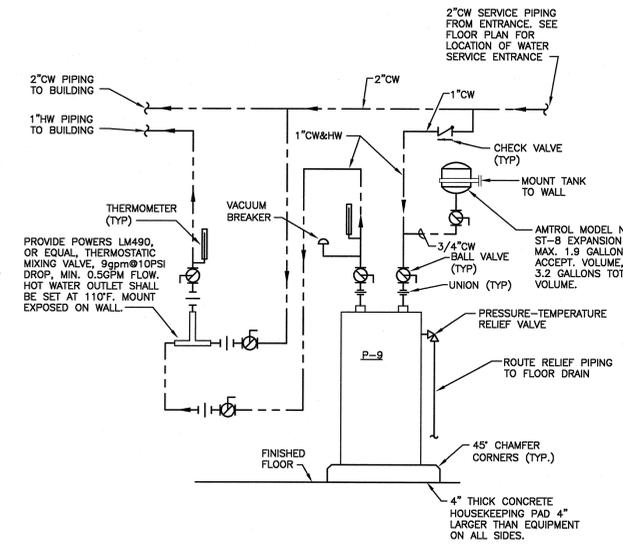
KEYED NOTES

- | MARK | DESCRIPTION |
|------|--|
| 1 | 1 1/2" CW & 1/2" HW DOWN. PROVIDE PIPING MANIFOLD TO SERVE FIXTURES. ROUTE 1" CW TO EACH WATER CLOSET, 1/2" CW TO EACH HOSE BIBB, & 1/2" CW & HW TO EACH SHOWER VALVE. |
| 2 | 2" CW DOWN. PROVIDE PIPING MANIFOLD TO SERVE FIXTURES. ROUTE 1" CW TO EACH WATER CLOSET & 3/4" CW TO URINAL. |
| 3 | 1 1/2" CW & 1/2" HW DOWN. PROVIDE PIPING MANIFOLD TO SERVE FIXTURES. ROUTE 3/4" CW TO EACH URINAL & 1/2" CW & HW TO LAVATORY. |
| 4 | 1/2" CW & HW DOWN TO UTILITY SINK. |
| 5 | 1/2" CW & HW DOWN TO LAVATORY. |
| 6 | 1/2" CW DOWN TO WATER COOLER. |
| 7 | 1/2" CW DOWN TO HOSE BIBB. |

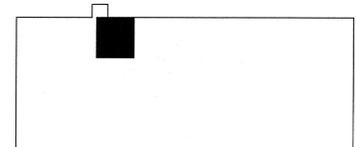
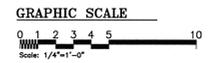
MARK	FIXTURE	MANUFACTURER	DESCRIPTION (MODEL)	ROUGH-IN SIZES				REMARKS
				WASTE	VENT	C.W.	H.W.	
P-1	WATER CLOSET	AMERICAN STANDARD OR EQUAL	MODEL 2257.001, OR EQUAL, ELONGATED, 1.28 GPF, VITREOUS CHINA, WALL MOUNTED, COLOR WHITE	4"	2"	1"	-	PROVIDE SLOAN MODEL 111-1.28, OR EQUAL, 1.28GPF, MANUAL FLUSH VALVE. PROVIDE CHURCH NO. 9500NSSC SEAT - COLOR WHITE AND SELF-SUSTAINING CHECK HINGES, OR EQUAL.
P-1A	WATER CLOSET (ADA)	AMERICAN STANDARD OR EQUAL	MODEL 2257.001, OR EQUAL, ELONGATED, 1.28 GPF, VITREOUS CHINA, WALL MOUNTED, COLOR WHITE	4"	2"	1"	-	PROVIDE SLOAN MODEL 111-1.28, OR EQUAL, 1.28GPF, MANUAL FLUSH VALVE. PROVIDE CHURCH NO. 9500NSSC SEAT - COLOR WHITE AND SELF-SUSTAINING CHECK HINGES, OR EQUAL. MOUNT FLUSH VALVE HANDLE ON WIDE SIDE OF STALL. MOUNT TO MEET ADA REQUIREMENTS.
P-2	URINAL	AMERICAN STANDARD OR EQUAL	MODEL 6590.005, OR EQUAL, WALL HUNG, 0.5GPF, VITREOUS CHINA, 3/4" TOP SPUD, COLOR WHITE	2"	1 1/2"	3/4"	-	PROVIDE SLOAN MODEL 188-0.5, OR EQUAL, 0.5GPF, MANUAL FLUSH VALVE. MOUNT TO MEET ADA REQUIREMENTS.
P-2A	URINAL (ADA)	AMERICAN STANDARD OR EQUAL	MODEL 6590.005, OR EQUAL, WALL HUNG, 0.5GPF, VITREOUS CHINA, 3/4" TOP SPUD, COLOR WHITE	2"	1 1/2"	3/4"	-	PROVIDE SLOAN MODEL 188-0.5, OR EQUAL, 0.5GPF, MANUAL FLUSH VALVE. MOUNT TO MEET ADA REQUIREMENTS.
P-3	WALL HUNG LAVATORY	AMERICAN STANDARD OR EQUAL	MODEL 4867.004, OR EQUAL - 19"x17" WALL HUNG, WHITE ENAMELED CAST IRON, COLOR WHITE, 4" CENTERSET	2"	1 1/2"	1/2"	1/2"	PROVIDE MCGUIRE 8902 P-TRAP, OR EQUAL, MCGUIRE 167 SERIES, OR EQUAL, MCGUIRE 155A STRAINER, OR EQUAL, AND DELTA 22C151 SINGLE LEVER FAUCET WITH 0.5GPM AERATOR, OR EQUAL. PROVIDE MCGUIRE FW2000, OR EQUAL, INSULATION KIT FOR P-TRAP AND SUPPLIES. MOUNT TO MEET ADA REQUIREMENTS.
P-3A	WALL HUNG LAVATORY (ADA)	AMERICAN STANDARD OR EQUAL	MODEL 4867.004, OR EQUAL - 19"x17" WALL HUNG, WHITE ENAMELED CAST IRON, COLOR WHITE, 4" CENTERSET	2"	1 1/2"	1/2"	1/2"	PROVIDE MCGUIRE 8902 P-TRAP, OR EQUAL, MCGUIRE 167 SERIES, OR EQUAL, MCGUIRE 155A STRAINER, OR EQUAL, AND DELTA 22C151 SINGLE LEVER FAUCET WITH 0.5GPM AERATOR, OR EQUAL. PROVIDE MCGUIRE FW2000, OR EQUAL, INSULATION KIT FOR P-TRAP AND SUPPLIES. MOUNT TO MEET ADA REQUIREMENTS.
P-4	2-LEVEL WATER COOLER	ELKAY OR EQUAL	MODEL EZSTL8C, OR EQUAL - WALL HUNG, 2-LEVEL, WHEELCHAIR ACCESS, 8GPH	2"	1 1/2"	1/2"	-	PROVIDE MCGUIRE 8902 P-TRAP, OR EQUAL, AND MCGUIRE 166 SUPPLY, OR EQUAL. FOUNTAIN IS 115V/60HZ. PROVIDE WITH LKAPREZL APRON, OR EQUAL.
P-5	FIBERGLASS SHOWER UNIT	AQUA GLASS OR EQUAL	MODEL 833941A1, PREFABRICATED FIBERGLASS SHOWER UNIT, 36"x36" WITH FOLDUP SEAT	2"	1 1/2"	1/2"	1/2"	PROVIDE WITH 2" TUB DRAIN KIT WITH STRAINER AND SYMMONS TEMPTROL 98-500-830-L-V PRESSURE-BALANCING MIXING VALVE WITH INTEGRAL STOPS, LEVER HANDLE, 1.5GPM CHROME PLATED BRASS SHOWER HEAD, DIVERTER VALVE, AND HAND HELD SHOWER WITH 30" SLIDE BAR. MOUNT BASIN RECESSED IN TOPPING SLAB. PROVIDE CHROME CURTAIN ROD. INSTALL SHOWER UNIT RECESSED IN TOPPING SLAB TO MEET ADA REQUIREMENTS.
P-6	HOSE BIBB	WOODFORD OR EQUAL	ANTI-CONT., RECESSED WALL FAUCET	-	-	1/2"	-	PROVIDE WITH LOOSE TEE KEY AND CHROME FINISH
P-6A	HOSE BIBB	WOODFORD OR EQUAL	ANTI-CONT., EXPOSED WALL FAUCET	-	-	1/2"	-	PROVIDE WITH LOOSE TEE KEY AND CHROME FINISH
P-7	FLOOR DRAIN RESTROOMS	ZURN OR EQUAL	DURACOAT CAST IRON BODY WITH BOTTOM OUTLET MEMBRANE CLAMP AND ADJUSTABLE COLLAR WIT HSEEPAGE SLOTS.	3"	1 1/2"	-	-	PROVIDE WITH DEEP SEAL P-TRAP, TYPE "S" SQUARE STRAINER AND TRAPGUARD INSERT TO PREVENT SEWER GASES FROM ESCAPING DRAIN.
P-7A	FLOOR DRAIN MECHANICAL ROOM	ZURN OR EQUAL	DURACOAT CAST IRON BODY WITH BOTTOM OUTLET MEMBRANE CLAMP AND ADJUSTABLE COLLAR WIT HSEEPAGE SLOTS.	3"	1 1/2"	-	-	PROVIDE WITH DEEP SEAL P-TRAP, TYPE "I" STRAINER WITH LIP AND TRAPGUARD INSERT TO PREVENT SEWER GASES FROM ESCAPING DRAIN.
P-8	FLOOR CLEANOUT	ZURN OR EQUAL	DURACOAT CAST IRON, ADJUSTABLE WITH GAS AND WATERTIGHT THREADED PLUG	SEE PLAN	-	-	-	PROVIDE WITH NICKEL BRONZE TOP.
P-8A	WALL CLEANOUT	ZURN OR EQUAL	STAINLESS STEEL ACCESS COVER AND BRUSH PLUG	SEE PLAN	-	-	-	-
P-9	ELECTRIC WATER HEATER	A.O.SMITH OR EQUAL	MODEL DEN-66, OR EQUAL, GLASS LINED STORAGE TANK WITH INTERNAL HEATING ELEMENT	-	-	1"	1"	208V, 1PH, 4.5KW NON-SIMULTANEOUS OPERATION ELEMENT. SET HEATER TO STORE WATER AT TEMPERATURE OF 140°F. FURNISH DISCONNECT MATCHED FOR UNIT. ROUTE RELIEF PIPING TO FLOOR DRAIN. PROVIDE THERMOSTATIC MIXING VALVE TO REDUCE TEMPERATURE FROM 140°F TO 110°F.
P-10	UTILITY SINK	FIAT OR EQUAL	COLOR WHITE, PLASTIC, FREE STANDING SINK, SINGLE COMPARTMENT, FOUR LEGS	2"	1 1/2"	1/2"	1/2"	PROVIDE MCGUIRE 8912 P-TRAP, OR EQUAL, MCGUIRE 167 SERIES, OR EQUAL, AND FIAT A-1 FAUCET, OR EQUAL.



3 PLUMBING WASTE ISOMETRIC RISER DIAGRAM
1/4" = 1'-0"



4 WATER HEATER DETAIL
N.T.S.



KEY PLAN

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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

DES. C. HERRON
DR. C. HERRON
CHK. M. RADTKE
SUBMITTED BY: M. RADTKE
DESIGN DIR. B. MARSHBURN

APPROVED: PWO OR OICC DATE
SATISFACTORY TO: DATE

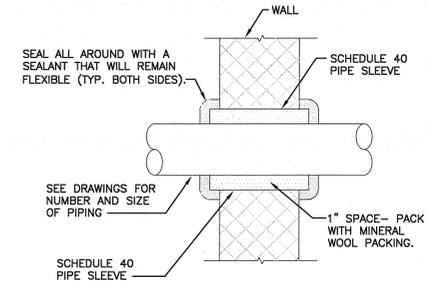
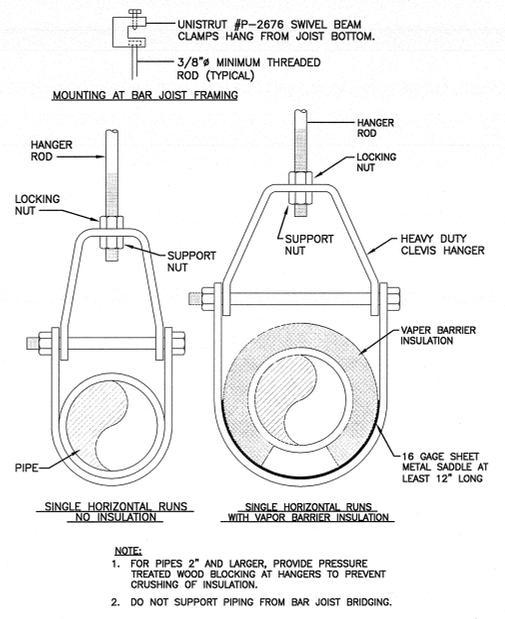
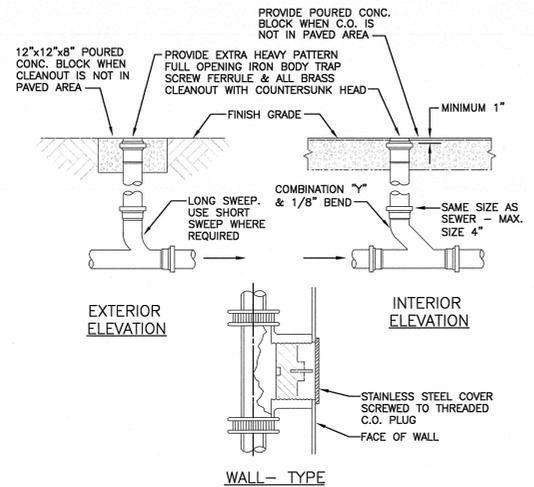
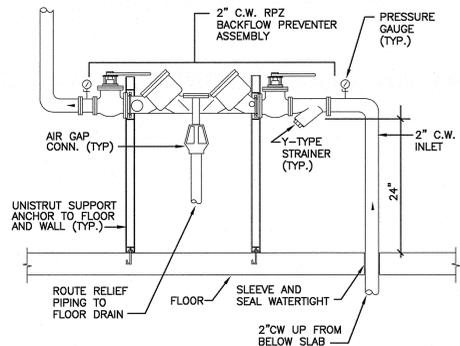
WALKER GROUP ARCHITECTURE

ADDITIONS OF HEADS
TO BUILDING M112
PLUMBING WASTE & WATER FLOOR PLANS

NAVFAC DRAWING NO.
60010139
CONST. CONTR. NO. N40085-12-B-0019

SCALE: NOTED SPEC. 12-0019 SHEET 8 OF 11

SYM	REVISIONS	DATE APPROVED



- NOTES:
1. THE VOID BETWEEN FIBROUS PACKING AND SLEEVE SHALL BE FILLED WITH CAULKING MATERIAL.
 2. SEE FLOOR PLANS FOR LOCATION OF ALL RATED WALLS.
 3. CHROME ESCUTCHEONS TO BE PROVIDED FOR ALL EXPOSED PENETRATIONS.

1 BACKFLOW PREVENTER DETAIL
SCALE: NONE

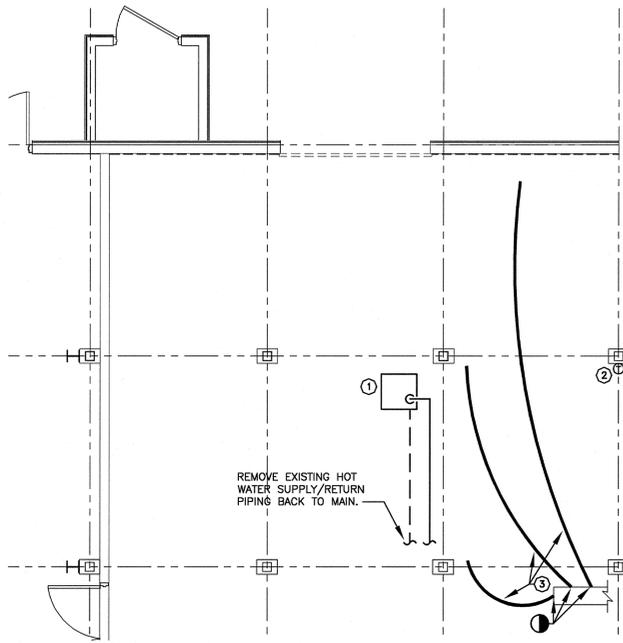
2 TYPICAL CLEANOUT DETAIL
SCALE: NONE

3 CLEVIS HANGER DETAIL
SCALE: NONE

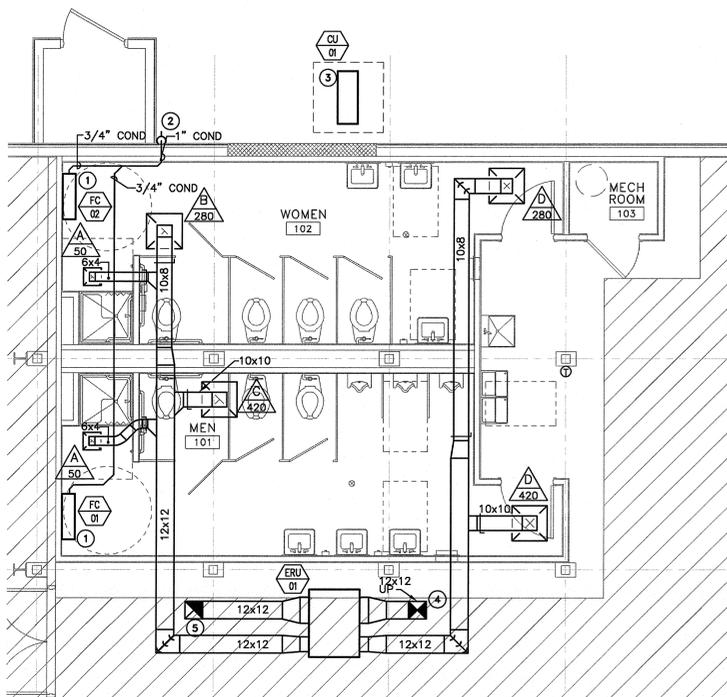
4 NON-RATED PIPING SLEEVE DETAIL
SCALE: NONE

P-2

	The Walker Group Architecture, Inc. WALKER GROUP ARCHITECTURE PO Box 541, New Bern, NC 28563 252.636.8778 (PHONE) 252.636.8992 (FAX)	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
	DES. CPH DR. CPH CHK. MHR SUBMITTED BY: MHR DESIGN DIR. B. MARSHBURN APPROVED: PWO OR OICC DATE SATISFACTORY TO: DATE	ADDITIONS OF HEADS TO BUILDING M112 PLUMBING DETAILS NAVFAC DRAWING NO. 80010140 CONST. CONTR. NO. N40085-12-B-0019



M MECHANICAL DEMOLITION PLAN
1/4" = 1'-0" N



M MECHANICAL NEW WORK PLAN
1/4" = 1'-0" N

AIR-TO-AIR ENERGY RECOVERY UNIT																			
MARK	MANUFACTURER/MODEL	SUPPLY FAN			EXHAUST FAN			WHEEL PERFORMANCE, WINTER				WHEEL PERFORMANCE, SUMMER				ELECTRICAL DATA	NOTES		
		CFM	ESP (IN.)	H.P.	CFM	ESP (IN.)	H.P.	SUPPLY		EXHAUST		SUPPLY		EXHAUST					
								EAT DB (°F)	LAT DB (°F)	EAT DB/WB (°F)	LAT DB/WB (°F)	EAT DB/WB (°F)	LAT DB/WB (°F)	EAT DB/WB (°F)	LAT DB/WB (°F)	MOSP (AMPS)	MCA (AMPS)	VOLTS/PHASE	
ERU-1	GREENHECK / MINVENT	700	0.50	1/3	800	0.60	1/3	23	59.9	70/53	37.7/32.4	93/78	78.9/66.7	75/62	87.4/74.2	25	18.3	115/1	1,2,3,4

NOTES:
 1. PROVIDE WITH FACTORY VIBRATION ISOLATORS FOR SUSPENDED MOUNTING, UNIT MOUNTED DISCONNECT SWITCH, AND SINGLE POINT POWER CONNECTION.
 2. PROVIDE WITH 2" THROW-AWAY FILTERS.
 3. PROVIDE WITH ROOF HOOD MODEL GRS FOR EXHAUST DUCT.
 4. PROVIDE WITH TIME CLOCK. UNIT SHALL BE CONTROLLED VIA TIME-OF-DAY SCHEDULE.

AIR DISTRIBUTION SCHEDULE									
MARK	MANUFACTURER / MODEL	NECK (IN)	FACE (INxIN)	MATERIAL	FINISH	DAMPER	SERVICE	NC RATING	NOTES
A	PRICE / 630	6x6	8x8	ALUMINUM	BAKED ENAMEL	N	EXHAUST	<30	1,2,3
B	PRICE / APDDR	10x8	24x24	ALUMINUM	BAKED ENAMEL	N	EXHAUST	<30	1,2,3
C	PRICE / APDDR	10x10	24x24	ALUMINUM	BAKED ENAMEL	N	EXHAUST	<30	1,2,3
D	PRICE / ASCD	SEE NOTE 1	24x24	ALUMINUM	BAKED ENAMEL	N	SUPPLY	<30	1,2,3

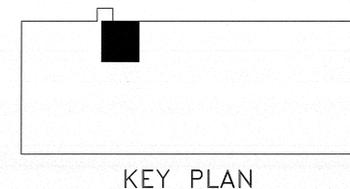
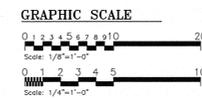
NOTES:
 1. COORDINATE NECK SIZE WITH DUCT CONNECTION ON FLOORPLAN.
 2. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN FOR MOUNTING REQUIREMENTS.
 3. PROVIDE PRICE, METALARE, NAILOR OR EQUAL. EQUIVALENT SHALL HAVE SAME LOUVER STYLE AND THROW DIRECTIONS AS BASIS OF DESIGN.

HEAT PUMP SCHEDULE								
MARK	MANUFACTURER / MODEL	EVAPORATOR COIL COOLING BTUH	HEATING BTUH	AMBIENT	M.C.A.	MIN. SEER	VOLTS/PHASE	NOTES
CU-01	DAIKIN / MXZ	22	25	95°F	15	17.5	208/1	1,2

NOTES:
 1. PROVIDE MITSUBISHI, DAIKIN, OR EQUAL. EQUIVALENT CONDENSING UNIT SHALL HAVE CAPABILITY OF SERVING AT LEAST 2 INDOOR UNITS SIMULTANEOUSLY.
 2. PROVIDE WITH DISCONNECT.

DX HEAT PUMP FAN COIL SCHEDULE											
MARK	MANUFACTURER / MODEL	FAN			COOLING			HEATING			NOTES
		S.A. CFM	OA	FLA	VOLTS/PHASE	TC MBH	SEER	EDB °F	EWB °F	MBH AT 47°F	
FC-01	MITSUBISHI / MSZ	235	N/A	0.76	208/1	12	14.5	80	67	13.6	1,2,3,4,5,6
FC-02	MITSUBISHI / MSZ	235	N/A	0.76	208/1	6	14.5	80	67	7.2	1,2,3,4,5,6

NOTES:
 1. SUPPLY CFMS ARE BASED ON MEDIUM SPEED FAN SETTING.
 2. OUTDOOR SECTION OF CONDENSING UNIT IS 208V-1~. SEE CONDENSING UNIT SCHEDULE.
 3. PROVIDE THE FOLLOWING UNIT MFG. OPTIONS: FUSED DISCONNECT
 4. SIZE REFRIGERANT PIPING AS REQUIRED BY UNIT MFG.
 5. PROVIDE MITSUBISHI, DAIKIN, OR EQUAL.
 6. PROVIDE WITH CONDENSATE PUMP.



SYM	REVISIONS	DATE APPROVED

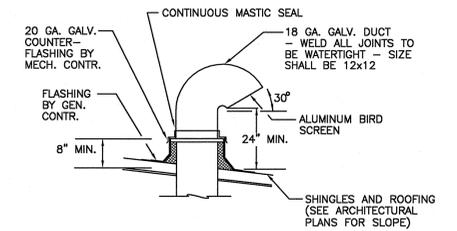
GENERAL NOTES
 1. ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS, IN ADDITION TO DOD/USMC POLICIES. THE CONTRACTOR SHALL INFORM THE GOVERNMENT OF ANY CONFLICTS AS SOON AS THEY ARE DETECTED.

DEMOLITION NOTES
 ① REMOVE EXISTING UNIT HEATER AND ALL ASSOCIATED SUPPORTS AND PIPING.
 ② EXISTING THERMOSTAT SHALL REMAIN. REMOVE EXISTING WIRING FOR UNIT HEATER. REFER TO ELECTRICAL PLANS.
 ③ REMOVE EXISTING ABANDONED DUST COLLECTION BRANCHES. CAP AT MAIN.

NEW WORK NOTES
 ① ROUTE REFRIGERANT PIPING TO CONDENSING UNIT ON PAD, CU-01. LOCATION OF PIPE TO BE COORDINATED IN FIELD. REFRIGERANT PIPING TO BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.
 ② ROUTE CONDENSATE THRU EXTERIOR WALL. TERMINATE MAXIMUM 6" ABOVE FINISHED GRADE. PROVIDE CONCRETE SPLASH BLOCK AT CONDENSATE DISCHARGE.
 ③ NEW CONDENSING UNIT. INSTALL CONDENSING UNIT PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE CONCRETE PAD. CONTRACTOR SHALL USE 3,000 PSI CONCRETE. PAD SHALL BE 4" ABOVE FINISHED GRADE.
 ④ ROUTE 12x12 DUCT UP TO ROOF. PROVIDE GOOSENECK AT DUCT TERMINATION. SEE DETAIL M3 THIS SHEET.
 ⑤ ROUTE 12x12 DUCT UP TO ROOF. PROVIDE EXHAUST HOOD AND BACKDRAFT DAMPER AT ROOF OPENING.

LEGENDS AND NOMENCLATURE

- △ DIFFUSER TYPE
CFM VALUE
- ☒ SUPPLY AIR DIFFUSER - SEE AIR DISTRIBUTION SCHEDULE
- ☒ RETURN/EXHAUST AIR GRILLE - SEE AIR DISTRIBUTION SCHEDULE
- FC-1 # : NUMBER OF UNIT
- FC = FAN COIL
- ERU = ENERGY RECOVERY UNIT
- VOLUME DAMPER
- DISCONNECT

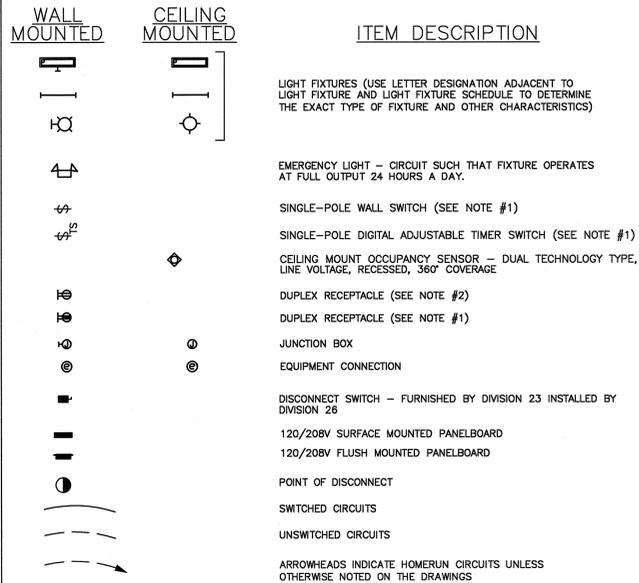


NOTES:
 1. VERIFY ROOF CURB WITH ROOFING MANUFACTURER PRIOR TO INSTALLATION.

M GOOSENECK DETAIL
NTS

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	DES. R. POINTER DR. R. POINTER CHK. M. RADTKE SUBMITTED BY: M. RADTKE DESIGN DIR. B. MARSHBURN	APPROVED: PWO OR OICC DATE:	ADDITIONS OF HEADS TO BUILDING M112 MECHANICAL PLAN
APPROVED:	DATE:	SCALE: NOTED SPEC. 12-0019	SHEET 10 OF 11

LEGENDS AND NOMENCLATURE



LEGEND NOTES:

- MOUNT AT 48" AFF TO TOP - U.O.N. - ADJUST TO MATCH MASONRY COURSES IF APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB.
- MOUNT AT 20" AFF TO TOP - U.O.N. - ADJUST TO MATCH MASONRY COURSES IF APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB.
- PROVIDE 3/4" C. TO ABOVE CEILING FROM ALL WALL MOUNTED BOXES U.O.N.

ABBREVIATIONS

A	AMPS
ACT	ACOUSTICAL CEILING TILE
AFF	ABOVE FINISHED FLOOR
C	CIRCUIT BREAKER
CB	CIRCUIT BREAKER
CKT	CIRCUIT
(E)	EXISTING
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
G	GROUNDING CONDUCTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
NF	NON-FUSED
NTS	NOT TO SCALE
RECEPT.	RECEPTACLE
RL	RELOCATE(D) EQUIPMENT
RM	REMOVE(D) EQUIPMENT
SE	SERVICE ENTRANCE RATED UNLESS OTHERWISE NOTED
UON	UNLESS OTHERWISE NOTED
V	VOLTS
WH	WATER HEATER
WP	WEATHER PROOF
XFMR	TRANSFORMER

ELECTRICAL SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE

Lighting Schedule

Lamp type required in fixture	- see lighting fixture schedule
Number of lamps in fixture	- see lighting fixture schedule
Ballast type used in fixture	- electronic
Number of ballasts in fixture	- see lighting fixture schedule

Building:

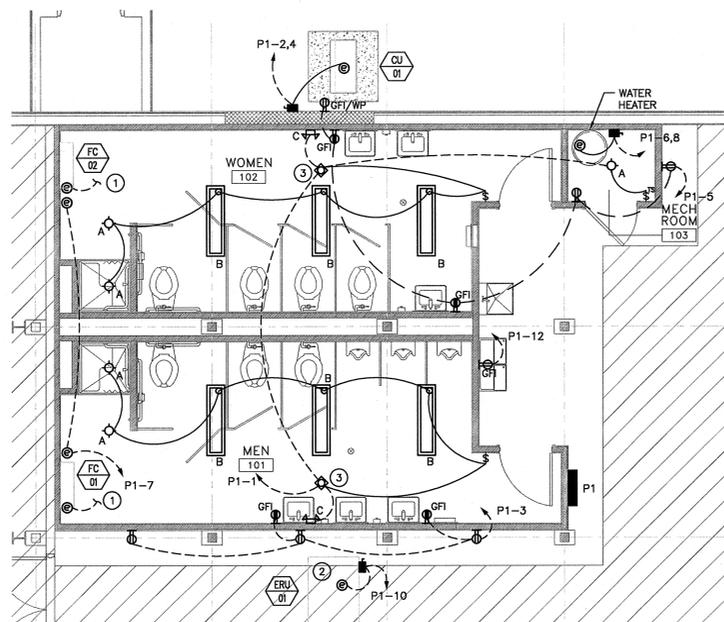
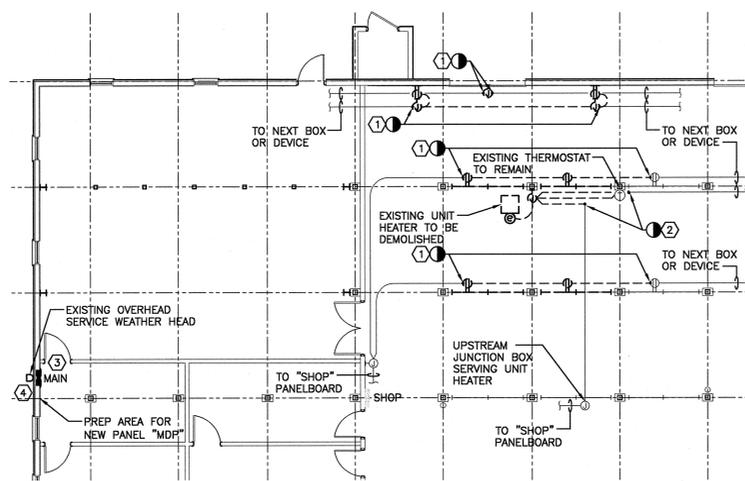
total interior wattage specified vs. allowed	Specified: 0.48 KW
	Allowed: 0.49 KW
total exterior wattage specified vs. allowed	Specified: N/A KW
	Allowed: N/A KW

Designer Statement
 To the best of my knowledge and belief, the design of this building complies with the electrical system and equipment requirements of North Carolina State Building Code, Section 805 of the Energy Conservation Code

SIGNED: *Stephen P. Webb*
 NAME: STEPHEN P. WEBB, P.E.
 TITLE: Electrical Engineer

LOAD SERVED	VA/PHASE			CB	P	CKT	CB	VA/PHASE	LOAD SERVED					
	A	B	C							A	B	C		
LIGHTS 101, 102, 103	480			20	1	1	2	2	20	1440	CU-01, FC-01, & FC-02			
RECEPT. 101	900			20	1	3	4			1440	(2 #10, #10G, 3/4")			
RECEPT. 102, 103, EXT.		900		20	1	5	6	2	30		2250	WATER HEATER		
CONDENSATE PUMPS	200			20	1	7	8				(2 #10, #10G, 3/4")			
SPARE				20	1	9	10	1	30		2100	ERU-1 (2 #10, #10G, 3/4")		
SPARE				20	1	11	12	1	20		800	EWC		
SPARE				20	1	13	14	1	20			SPARE		
SPARE				20	1	15	16	1	20			SPARE		
SPARE				20	1	17	18	1	20			SPARE		
VOLTAGE RATING	120/208									4370	4445	3950	PANEL DESIGNATION	P1
# OF PHASES	3													NOTES:
# OF WIRES	4													
MOUNTING?	SURFACE													
SE RATED?	NO													
MAIN BREAKER?	YES													
BREAKER RATING	225A													
BUS RATING	100A													
NEUTRAL RATING	100%													
MINIMUM KAIC	10													

LOAD SERVED	VA/PHASE			CB	P	CKT	CB	VA/PHASE	LOAD SERVED					
	A	B	C							A	B	C		
PANEL P1 (SEE RISER)	4370	4445	3950	100	3	3	4	3	100	"PANEL" SHOP"				
"OFFICE RECEPT				20	1	7	8							
"(NOT LABELED)				20	1	9	10	3	60					"LOAD CENTER
"(NOT LABELED)				25	1	11	12							
"OFFICE & STORAGE ROOM				20	1	13	14	1	20					"CLASSROOM LEFT SIDE
"CLASSROOM FRONT				20	1	15	16	1	20					"CLASSROOM RIGHT SIDE
"(NOT LABELED)				20	1	17	18	1	20					SPARE
SPACE				20	1	19	20	1	25					"(NOT LABELED)
SPARE				20	1	21	22	1	20					"(NOT LABELED)
SPARE				20	1	23	24	1	20					"COMPUTER REC
SPARE				100	3	25	26	1	20					"COMPUTER REC
SPARE				20	1	27	28	1	20					"COMPUTER REC
SPARE				20	1	29	30	1	20					"COMPUTER REC
"HEATAC UNIT				60	3	31	32							SPACE
SPACE							33							SPACE
SPACE							34							SPACE
SPACE							35							SPACE
SPACE							36							SPACE
SPACE							37							SPACE
SPACE							38							SPACE
SPACE							39							SPACE
SPACE							40							SPACE
VOLTAGE RATING	120/208									4370	4445	3950	PANEL DESIGNATION	MDP
# OF PHASES	3													NOTES:
# OF WIRES	4													"EXISTING LOAD TO BE RECONNECTED IN EXISTING MAIN" PANEL CAN
MOUNTING?	SURFACE													
SE RATED?	YES													



LOAD SUMMARY

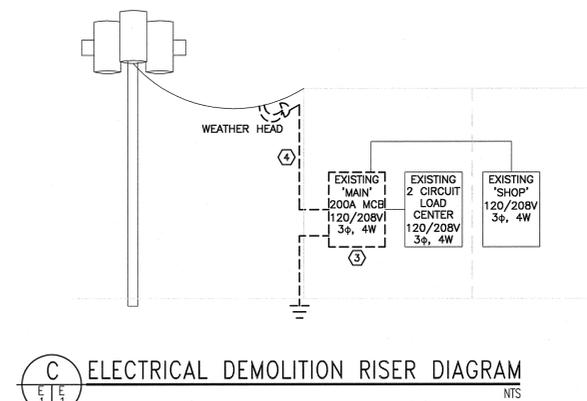
EXISTING LOADS	QTY	LOAD	UNIT	TOTAL	UNIT
LIGHTING	68	591 W		4012	WATTS
RECEPTACLES	44	180 W		7920	WATTS
COMPUTERS	40	250 W		10000	WATTS
DUST COLLECTION (3HP)	2	3970 W		7940	WATTS
UNIT HEATERS (1/6 HP)	8	530 W		4240	WATTS
HVAC UNIT (60A @ 80%)	1	17292 W		17292	WATTS
TOTAL LOAD				53484	WATTS
AMPS @ 208V				142.7	AMPS
NEW SERVICE SIZE					
ORIGINAL LOAD				142.7	AMPS
REMOVED LOAD				5.1	AMPS
ADDED LOAD				35.5	AMPS
FINAL LOAD				173.0	AMPS
NEW SERVICE PANELBOARD SIZE				225.0	AMPS

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	SIZE	MOUNTING	MANUFACTURER	LAMP	# OF BALLASTS	NOTES	VOLTAGE	VA
A	6" LENSED HORIZONTAL RECESSED DOWNLIGHT, COMPACT FLUORESCENT, GLASS LENS, PLASTIC FLANGE, IC RATED, WET LOCATION	12 1/2" WIDE 13 1/4" LONG 7" HIGH (MAX)	RECESSED IN CEILING	LITHONIA #LFB-2/13DIT-MVOLT-FBL73FP OR APPROVED EQUAL	2-G.E. F13DBX841 OR APPROVED EQUAL BY SYLVANIA OR PHILLIPS	1	1.2	120/277	30
B	SURFACE 1X4 FLUORESCENT FIXTURE, EFFICIENT HIGH ANGLE DISTRIBUTION, SERVICABLE FROM BELOW	1" WIDE 4" LONG 4" HIGH	SURFACE MOUNT ON CEILING	LITHONIA #STB-232-GE810S OR APPROVED EQUAL	2-G.E. F32TB/SPX41 OR APPROVED EQUAL BY SYLVANIA OR PHILLIPS	1	1.2	120/277	55
C	EMERGENCY LIGHTING UNIT LEAD CALCIUM BATTERY, LOW PROFILE (2) 6V, 6 WATT HEADS, SELF DIAGNOSTICS	11 1/8" WIDE 5 3/4" DEEP 5 3/4" HIGH	WALL MOUNT AT 96" AFF	MpHLBEN #CT26H OR APPROVED EQUAL	2-G.E. 6V/8W HALOGEN OR APPROVED EQUAL BY SYLVANIA OR PHILLIPS	NA	-	120/277	10

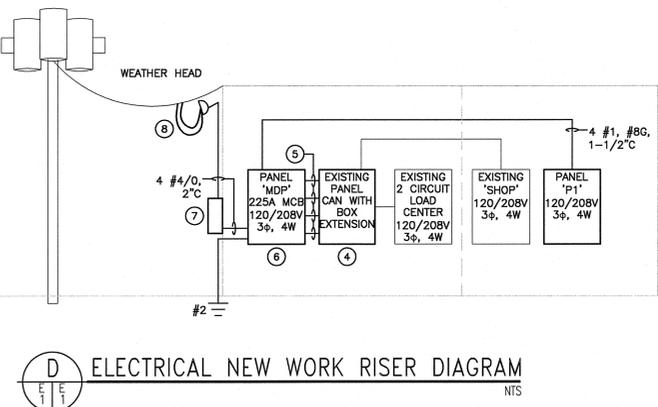
GENERAL NOTES

- CONTRACTOR SHALL COORDINATE FIXTURE MOUNTING STYLE (GRID VERSUS GYP-BOARD) WITH ARCHITECTURAL REFLECTED CEILING PLANS.
 - ALL INDUSTRIAL FLUORESCENT FIXTURES WHERE INSTALLED IN MECHANICAL SPACES SHALL BE COORDINATED WITH ALL TRADES TO AVOID CONFLICTS WITH MECHANICAL PLUMBING, PIPING, DUCTWORK, ETC.
 - ALL FIXTURES WITH DOUBLE-ENDED FLUORESCENT LAMPS, FIXTURES WHERE THE BALLAST IS ACCESSIBLE WITHOUT REMOVING FIXTURE, AND OTHER FIXTURES REQUIRED BY NEC 410.73(G) SHALL BE PROVIDED WITH A PLUG-STYLE DISCONNECTING MEANS WITHIN 12" AND VISUAL SITE OF EACH BALLAST. PLUG-STYLE DISCONNECTING MEANS SHALL BE FACTORY INSTALLED BY MANUFACTURER AND LISTED ASSEMBLY.
- KEYED NOTES:**
- PROVIDE HIGH FREQUENCY ELECTRONIC RAPID-START BALLAST WITH MAX. 10% HARMONIC DISTORTION.
 - USE ONE OF THE FOLLOWING BALLAST MANUFACTURERS: ADVANCE, UNIVERSAL, G.E., OR SYLVANIA.



NEW WORK NOTES

- PROVIDE 2 #12, #12G FROM OUTDOOR UNIT TO POWER INDOOR UNIT.
- ENERGY RECOVERY UNIT IS INSTALLED AT A HEIGHT THAT IS ABOVE THE NEW BATHROOM CEILING STRUCTURE. IT IS LOCATED ADJACENT TO THE NEW SPACE FOR EASE OF ACCESS FOR MAINTENANCE. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- PROVIDE LINE VOLTAGE OCCUPANCY SENSOR FOR BATHROOM LIGHTING. WIRE SENSOR AHEAD OF LOCAL SWITCHING.
- PROVIDE SURFACE MOUNTED BOX EXTENSION OVER EXISTING RECESSED PANEL CAN. EXTENSION DEPTH WILL BE SAME AS NEW SURFACE MOUNTED PANEL "MDP". PROVIDE WITH SCREW-ON COVER, PAINT TO MATCH WALL. PROVIDE TERMINAL STRIPS FOR ALL EXISTING BRANCH CIRCUIT AND DISTRIBUTION FEEDER WIRING ON BACK OF EXISTING PANEL CAN. TERMINATE EXISTING WIRING AND LABEL TERMINAL STRIPS WITH EXISTING CIRCUIT NUMBERS. PROVIDE SEPARATE NEUTRAL AND GROUND TERMINAL STRIPS.
- PROVIDE CONDUIT NIPPLES BETWEEN BOX EXTENSION AND NEW PANEL "MDP". SIZE AND QUANTITY AS REQUIRED FOR RECONNECTION OF ALL NEW AND EXISTING LOADS.
- PROVIDE NEW MAIN DISTRIBUTION PANEL "MDP" ADJACENT TO NEW BOX EXTENSION. NEW BREAKER CONFIGURATION MATCHES EXISTING CONFIGURATION IN DEMOLISHED MAIN PANEL, UNLESS OTHERWISE NOTED. FOR RECONNECTION OF EXISTING LOADS, PROVIDE NEW BRANCH CIRCUIT AND DISTRIBUTION FEEDER WIRING FROM NEW BREAKERS TO TERMINAL STRIPS WITH THEIR RESPECTIVE CIRCUIT NUMBER. WIRING SIZE SHALL MATCH EXISTING WIRING RETAINED DURING DEMOLITION.
- PROVIDE 24" X 24" X 8" NEMA 4X, LOCKABLE, STAINLESS STEEL PULL BOX ON EXTERIOR WALL IMMEDIATELY BEHIND NEW PANEL "MDP". PROVIDE CONDUIT NIPPLE THRU EXTERIOR WALL FOR NEW SERVICE FEEDER.
- PROVIDE NEW VERTICAL CONDUIT RISER AND WEATHER HEAD ON EXTERIOR OF BUILDING. WEATHER HEAD SHALL BE INSTALLED AT A HEIGHT SUCH THAT IT IS ADJACENT TO THE EXISTING GUY WIRE SUPPORTING THE EXISTING OVERHEAD AERIAL CONDUCTORS RETAINED DURING DEMOLITION. PROVIDE SERVICE FEEDER CONDUCTORS WITH SUFFICIENT LENGTH FOR A DRIP LOOP ON ALL CONDUCTORS AFTER TERMINATIONS HAVE BEEN MADE TO THE EXISTING OVERHEAD CONDUCTORS. SEAL ALL BUILDING PENETRATIONS AND THE WEATHER HEAD AFTER FEEDER IS INSTALLED.



SYMBOLS

SYMBOL	REVISIONS	DATE APPROVED

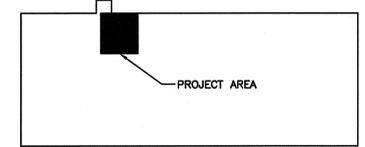
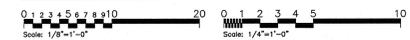
GENERAL NOTES

- THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT SHOW ALL DETAILS REQUIRED FOR THE COMPLETE SYSTEM. THEY SHOULD HOWEVER BE FOLLOWED AS CLOSELY AS POSSIBLE IN THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT. ALL DIMENSIONS SHALL BE CHECKED AT THE BUILDING AND ALL STRUCTURAL AND FINISH CONDITIONS INVESTIGATED. THE CONTRACTOR SHALL ARRANGE HIS WORK TO MEET THESE CONDITIONS AND PROVIDE SUCH EQUIPMENT AND ACCESSORIES AS MAY BE REQUIRED.
- ALL EXISTING SYSTEMS ARE OPERATIONAL AT THE START OF CONSTRUCTION. CONTRACTORS SHALL MAINTAIN SYSTEMS INCLUDING THE LIGHTING AND POWER SYSTEMS DURING CONSTRUCTION. CONTRACTOR SHALL MAKE ANY REQUIRED TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEM.
- PROTECT EXISTING ELECTRICAL EQUIPMENT AND INSTALLATIONS INDICATED TO REMAIN. IF DAMAGED OR DISTURBED IN THE COURSE OF THE WORK, REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL CAPACITY, QUALITY AND FUNCTIONALITY.
- ALL CIRCUITS SHALL BE 2#12 WITH #12G UNLESS OTHERWISE NOTED ON PLANS, PANEL SCHEDULES, AND SPECIFICATIONS.

DEMOLITION NOTES

- DEMOLISH ALL EXISTING JUNCTION BOXES, RECEPTACLES, LIGHT FIXTURES, CONDUIT, AND BRANCH CIRCUIT WIRING BETWEEN THE POINTS SHOWN. REMOVE WIRING BACK TO NEAREST UPSTREAM AND DOWNSTREAM JUNCTION BOXES. INTENT OF DEMOLITION WORK IS TO REMOVE ALL ELECTRICAL BOXES AND DEVICES THAT WILL BE MADE INACCESSIBLE BY THE CONSTRUCTION OF THE NEW RESTROOMS AND TO MAINTAIN SERVICE TO ALL WIRING DEVICES NOT AFFECTED BY PROJECT. UPDATE PANEL SCHEDULE TO REFLECT NEW AND REMOVED LOADS. CONTRACTOR SHALL PROVIDE NEW CONDUIT BETWEEN THE TWO POINTS OF DEMOLITION. CONTRACTOR SHALL PROVIDE NEW BRANCH CIRCUIT WIRING BETWEEN JUNCTION BOXES (UPSTREAM AND DOWNSTREAM) TO MAINTAIN SERVICE TO REMAINING WIRING DEVICES. NEW WIRING AND CONDUIT SHALL BE SIZED TO MATCH EXISTING. ASSUME 2 #12, #12G, 3/4" FOR BIDDING PURPOSES. DO NOT INSTALL ANY NEW BOXES ABOVE NEW RESTROOM AREA AS THIS LOCATION IS INACCESSIBLE.
- EXISTING UNIT HEATER TO BE DEMOLISHED. EXISTING LINE VOLTAGE THERMOSTAT TO REMAIN. DEMOLISH ALL EXISTING JUNCTION BOXES, CONDUIT, AND BRANCH CIRCUIT WIRING BETWEEN THE POINTS SHOWN. RETAIN SUFFICIENT WIRING FOR RECONNECTION. AT THERMOSTAT, RETAIN VERTICAL PORTION OF CONDUIT AND WIRING ON COLUMN. REMOVE UPSTREAM WIRING TO NEAREST UPSTREAM JUNCTION BOX. INSTALL NEW JUNCTION BOX ON COLUMN ABOVE THERMOSTAT TO INTERCEPT EXISTING THERMOSTAT AND DOWNSTREAM CONDUITS AND WIRING RETAINED DURING DEMOLITION. EXTEND EXISTING UPSTREAM CONDUIT TO NEW JUNCTION BOX LOCATION. PROVIDE NEW WIRING FROM NEAREST EXISTING UPSTREAM JUNCTION BOX TO NEW JUNCTION BOX. NUMBER OF WIRES AND WIRE SIZES TO MATCH EXISTING. CONNECT NEW AND EXISTING WIRING RETAINED DURING DEMOLITION SO THAT EXISTING LINE VOLTAGE THERMOSTAT CONTROLS THE REMAINING UNIT HEATERS. REFER TO MECHANICAL PLAN FOR ADDITIONAL INFORMATION.
- DEMOLISH EXISTING MAIN PANELBOARD INTERIOR AND COVER. RETAIN EXISTING PANEL CAN. CLEAN, REPAINT, AND SEAL EXISTING PANEL CAN. RETAIN EXISTING BRANCH CIRCUIT WIRING AND DISTRIBUTION FEEDERS FOR RECONNECTION. LABEL ALL WIRING FOR RECONNECTION (CIRCUIT #, ETC.).
- DEMOLISH EXISTING OVERHEAD SERVICE RISER, WEATHER HEAD, THRU-WALL CONDUIT NIPPLE. DEMOLISH EXISTING SERVICE FEEDER WIRING IN RISER. PROVIDE GASKETED KNOCK-OUT SEAL FOR NIPPLE OPENING IN BACK OF CAN. RETAIN EXISTING OVERHEAD AERIAL CONDUCTORS AND SUPPORT WIRING FOR RECONNECTION.

GRAPHIC SCALES



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