

UNITED WATER FLORIDA

MONTEREY FACILITY

WASTEWATER TREATMENT FACILITY OPERATIONS BUILDING

JACKSONVILLE, FLORIDA

SCHEDULE OF DRAWINGS:

A.0	TITLE SHEET
A.1	FLOOR PLAN & SCHEDULES
A.2	REFLECTED CEILING PLAN & SCHEDULES
A.3	ROOF PLAN
A.4	WEST & NORTH BUILDING ELEVATIONS
A.5	EAST & SOUTH BUILDING ELEVATIONS
A.6	FOUNDATION PLAN & ROOF FRAMING PLAN
A.7	SECTIONS, DETAILS & NOTES
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M.2	MECHANICAL FLOOR PLAN & PARTIAL FLOOR PLAN
P.1	PLUMBING SCHEDULES, NOTES & LEGEND
P.2	PLUMBING FLOOR PLAN & RISER DIAGRAMS
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SP.1	SITE PLAN
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(SITE DEVELOPMENT DRAWINGS LISTED FOR REFERENCE ONLY)

GARY L. McDONALD, ARCHITECT

12237 BEAVER RUN DRIVE
JACKSONVILLE, FLORIDA 32225
904 645-8407

FL AR 004951

UNITED WATER FLORIDA

MONTEREY FACILITY

WASTEWATER TREATMENT FACILITY
OPERATIONS BUILDING

JACKSONVILLE, FLORIDA

MECHANICAL DESIGN BY:
PAUL MICHAEL, P.E.

ELECTRICAL DESIGN BY:
JAMES B. GUNTER, P.E.

TITLE SHEET

DCAD FILE: 19A02_R1 (1/4")

NO:	DATE:	REVISION:
1	12/12/96	GENERAL

ISSUED FOR BID:
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PROJECT NO.: 96902B
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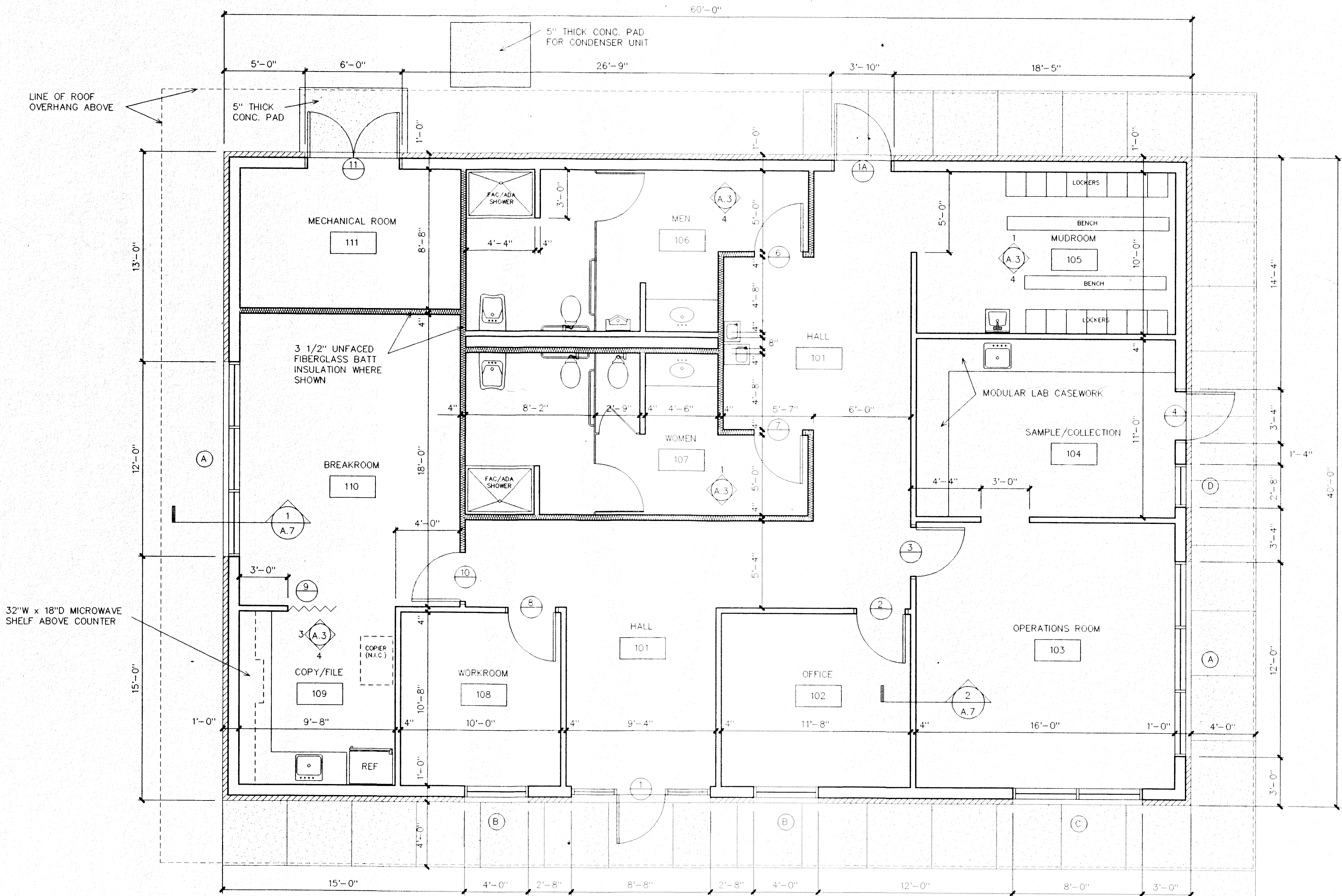
77923
MONTEREY FACILITY WWTF
OPERATIONS BUILDING

A.0

SPACE FINISH SCHEDULE							DOOR SCHEDULE										
NO.	SPACE	FLOOR	BASE	WALLS	CEILINGS		REMARKS	DOOR NO	DOOR OPENING		DOOR THICKNESS	DOOR TYPE	DOOR MATERIAL	FRAME MATERIAL	FRAME DETAIL	HARDWARE GROUP	REMARKS
					MATERIAL	HEIGHT			WIDTH	HEIGHT							
101	HALL	RADIAL RUBBER	4" RUBBER	GWB/CMU/PAINTED	ACT/SUSPENDED SYSTEM	8'-6"	FLOOR: AMERICAN CLEAN, Q061 "PAMM"; BASE: ROFFE, 40 "FAMN"; WALLS: PITTSBURG PAINTS, 2543 "DORIC" (OFF WHITE); CEILING: ARMSTRONG, 5404 "SANSERRA" 24"x24" FIRECODE	1	3'-0"	7'-2"	1 3/4"	FULL GLASS	ALUM	ALUM	-	SEE REMARKS	REFER TO SPECIFICATIONS, SECTION 06001, PAGE 2, "DOOR AND HARDWARE SCHEDULE" (DOOR OPENING NO. 101A, DATED 10/2/95). CONTRACTOR TO PROVIDE FINAL HARDWARE SCHEDULE FOR REVIEW BY ARCHITECT.
102	OFFICE	RADIAL RUBBER	4" RUBBER	GWB/CMU/PAINTED	ACT/SUSPENDED SYSTEM	8'-6"	FLOOR: ROFFE, 140 "FAMN"; BASE: ROFFE, 40 "FAMN"; WALLS: PITTSBURG PAINTS, 2543 "DORIC" (OFF WHITE); CEILING: ARMSTRONG, 5404 "SANSERRA" 24"x24" FIRECODE	1A	3'-8"	7'-2"	1 3/4"	FLUSH	HM/PAINTED	HM/PAINTED	-	SEE REMARKS	REFER TO ABOVE FIRST REMARK. USE DOOR OPENING NO. 101B.
103	OPERATIONS ROOM	RADIAL RUBBER	4" RUBBER	GWB/CMU/PAINTED	ACT/SUSPENDED SYSTEM	8'-6"	FLOOR: ROFFE, 140 "FAMN"; BASE: ROFFE, 40 "FAMN"; WALLS: PITTSBURG PAINTS, 2543 "DORIC" (OFF WHITE); CEILING: ARMSTRONG, 5404 "SANSERRA" 24"x24" FIRECODE	2	3'-0"	6'-8"	1 3/4"	FLUSH	SC WD/VARNISH	HM/PAINTED	-	SEE REMARKS	REFER TO ABOVE FIRST REMARK. USE DOOR OPENING NO. 101B.
104	SAMPLE/COLLECTION	PAVER TILE	4" RUBBER	GWB/CMU/PAINTED	ACT/SUSPENDED SYSTEM	8'-6"	FLOOR: DAL. TILE, TK03 "SABBA" PORCELIN PAVER; BASE: ROFFE, 40 "FAMN"; WALLS: PITTSBURG PAINTS, 2543 "DORIC" (OFF WHITE); CEILING: ARMSTRONG, 5404 "SANSERRA" 24"x24" FIRECODE	3	3'-0"	6'-8"	1 3/4"	FLUSH	SC WD/VARNISH	HM/PAINTED	-	SEE REMARKS	REFER TO ABOVE FIRST REMARK. USE DOOR OPENING NO. 102A.
105	MUDROOM	PAVER TILE	4" RUBBER	GWB/CMU/PAINTED	ACT/SUSPENDED SYSTEM	8'-6"	FLOOR: DAL. TILE, TK03 "SABBA" PORCELIN PAVER; BASE: ROFFE, 40 "FAMN"; WALLS: PITTSBURG PAINTS, 2543 "DORIC" (OFF WHITE); CEILING: ARMSTRONG, 5404 "SANSERRA" 24"x24" FIRECODE	4	3'-0"	7'-2"	1 3/4"	FLUSH	HM/PAINTED	HM/PAINTED	-	SEE REMARKS	REFER TO ABOVE FIRST REMARK. USE DOOR OPENING NO. 103A.
106	MEN'S TOILET	PAVER TILE	4" CERAMIC TILE	48" CT WAINSCOTE GWB/CMU/PAINTED	ACT/SUSPENDED SYSTEM	8'-6"	FLOOR: DAL. TILE, TK03 "SABBA" PORCELIN PAVER; WAINSCOTE & BASE: DAL. TILE, K166 "TENDER GREY"; WALLS: PITTSBURG PAINTS, 2543 "DORIC" (OFF WHITE); CEILING: SEE NOTE NO.1	6	3'-0"	6'-8"	1 3/4"	FLUSH	SC WD/VARNISH	HM/PAINTED	-	SEE REMARKS	REFER TO ABOVE FIRST REMARK. USE DOOR OPENING NO. 104A.
107	WOMEN'S TOILET	PAVER TILE	4" CERAMIC TILE	48" CT WAINSCOTE GWB/CMU/PAINTED	ACT/SUSPENDED SYSTEM	8'-6"	FLOOR: DAL. TILE, TK03 "SABBA" PORCELIN PAVER; WAINSCOTE & BASE: DAL. TILE, K166 "TENDER GREY"; WALLS: PITTSBURG PAINTS, 2543 "DORIC" (OFF WHITE); CEILING: SEE NOTE NO.1	6	3'-0"	6'-8"	1 3/4"	FLUSH	SC WD/VARNISH	HM/PAINTED	-	SEE REMARKS	REFER TO ABOVE FIRST REMARK. USE DOOR OPENING NO. 106A.
108	WORKROOM	RADIAL RUBBER	4" RUBBER	GWB/CMU/PAINTED	ACT/SUSPENDED SYSTEM	8'-6"	FLOOR: ROFFE, 140 "FAMN"; BASE: ROFFE, 40 "FAMN"; WALLS: PITTSBURG PAINTS, 2543 "DORIC" (OFF WHITE); CEILING: ARMSTRONG, 5404 "SANSERRA" 24"x24" FIRECODE	7	3'-0"	6'-8"	1 3/4"	FLUSH	SC WD/VARNISH	HM/PAINTED	-	SEE REMARKS	REFER TO ABOVE FIRST REMARK. USE DOOR OPENING NO. 107A.
109	COPY/FILE	RADIAL RUBBER	4" RUBBER	GWB/CMU/PAINTED	ACT/SUSPENDED SYSTEM	8'-6"	FLOOR: ROFFE, 140 "FAMN"; BASE: ROFFE, 40 "FAMN"; WALLS: PITTSBURG PAINTS, 2543 "DORIC" (OFF WHITE); CEILING: ARMSTRONG, 5404 "SANSERRA" 24"x24" FIRECODE	8	3'-0"	6'-8"	1 3/4"	FLUSH	SC WD/VARNISH	HM/PAINTED	-	SEE REMARKS	REFER TO ABOVE FIRST REMARK. USE DOOR OPENING NO. 102A SIMILAR.
110	BREAKROOM	RADIAL RUBBER	4" RUBBER	GWB/CMU/PAINTED	ACT/SUSPENDED SYSTEM	8'-6"	FLOOR: ROFFE, 140 "FAMN"; BASE: ROFFE, 40 "FAMN"; WALLS: PITTSBURG PAINTS, 2543 "DORIC" (OFF WHITE); CEILING: ARMSTRONG, 5404 "SANSERRA" 24"x24" FIRECODE	9	6'-8"	6'-8"	FACTORY	ACCORDION	WD/FACTORY	WD/PAINTED	-	SEE REMARKS	REFER TO ABOVE FIRST REMARK. USE DOOR OPENING NO. 109A.
111	MECHANICAL ROOM	SEALED CONCRETE	4" RUBBER	GWB/CMU/PAINTED	GWB/SMOOTH/PAINTED	10'-1 1/2" TO TRUSS	FLOOR: SEALED CONCRETE; BASE: ROFFE, 40 "FAMN"; WALLS: PITTSBURG PAINTS, 2543 "DORIC" (OFF WHITE); CEILING: NONE	10	3'-0"	6'-8"	1 3/4"	FLUSH	SC WD/VARNISH	HM/PAINTED	-	SEE REMARKS	REFER TO ABOVE FIRST REMARK. USE DOOR OPENING NO. 110A.
							NOTE NO.1 - CEILING: ARMSTRONG, 5404 "SANSERRA" 24"x24" FIRECODE	11	PAIR 2'-10"	7'-2"	1 3/4"	FLUSH	HM/PAINTED	HM/PAINTED	-	SEE REMARKS	REFER TO ABOVE FIRST REMARK. USE DOOR OPENING NO. 111A.

SYMBOLS LEGEND

- NEW PARTITIONS
- DOOR TYPE
DOOR HARDWARE TYPE
- SPACE NAME
SPACE NUMBER
- PARTITION TYPE
- ELEVATION NUMBER
SHEET NUMBER
- DETAIL NUMBER
SHEET NUMBER
- SECTION NUMBER
SHEET NUMBER
- KEY NOTES
- FIXTURE NUMBER
- WINDOW TYPE



FLOOR PLAN

SCALE: 1/4" = 1'-0"



NORTH

ASPHALT PARKING SURFACE
SEE CIVIL DRAWINGS

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FLOOR PLAN
FINISH & DOOR SCHEDULES

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CHECKED BY:

WINDOW SCHEDULE					
MARK	QUANTITY	SIZE	FRAME	GLAZING	REMARKS
A	2	12'-0"W x 4'-0"H	ALUM	1/4" LEXAN	FIXED WINDOW
B	2	4'-0"W x 4'-0"H	ALUM	1/4" LEXAN	FIXED WINDOW
C	1	8'-0"W x 4'-0"H	ALUM	1/4" LEXAN	FIXED WINDOW
D	1	2'-8"W x 4'-0"H	ALUM	1/4" LEXAN	FIXED WINDOW

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JACKSONVILLE, FLORIDA

REFLECTED CEILING PLAN
WINDOW SCHEDULE

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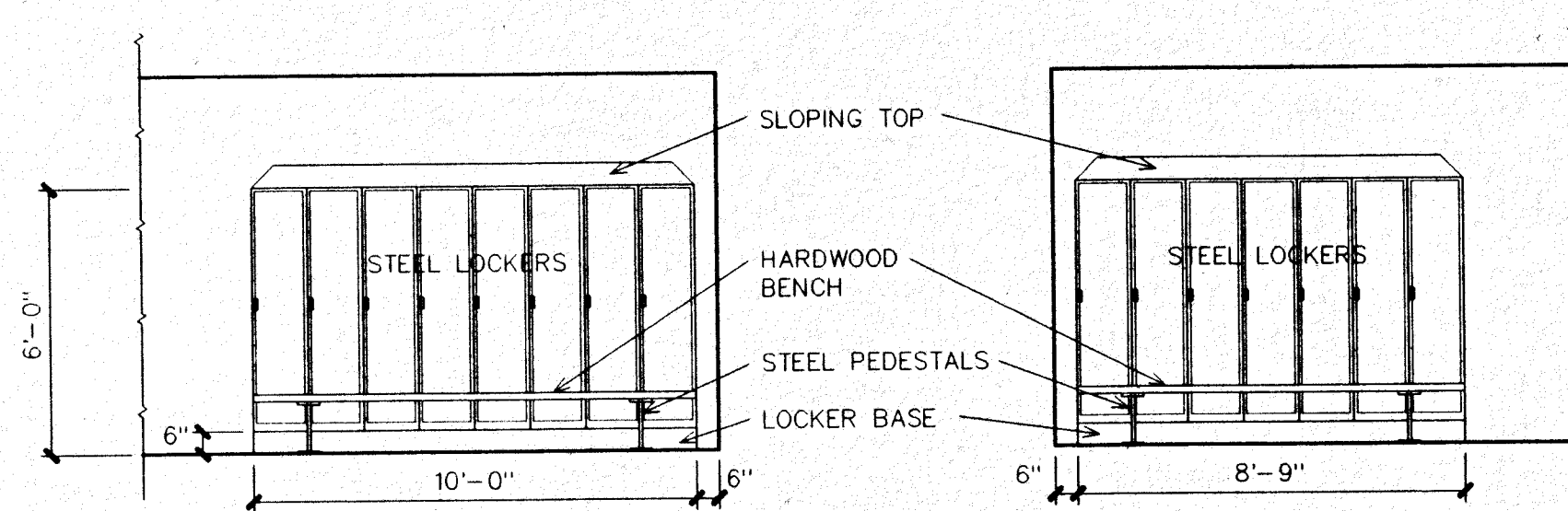
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REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0"

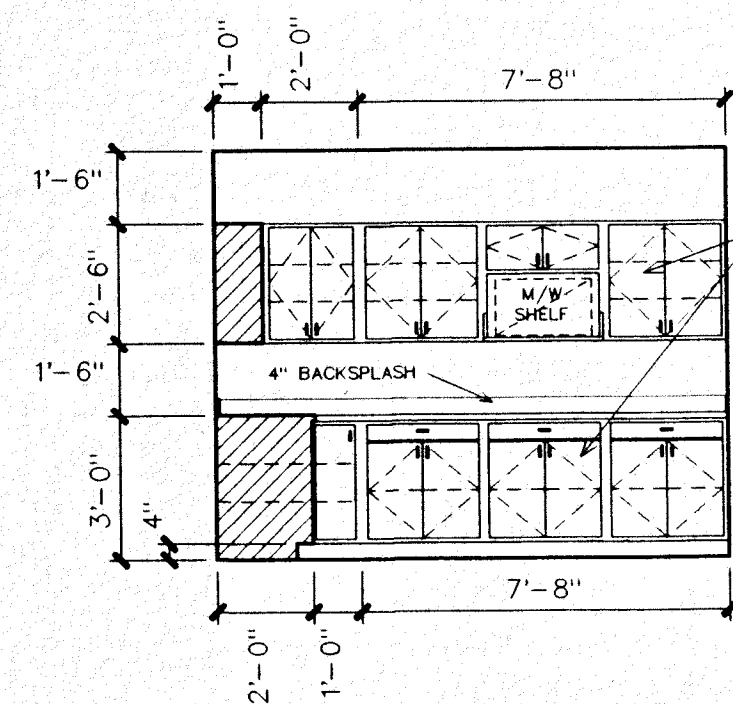
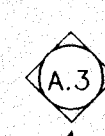
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OPERATIONS BUILDING



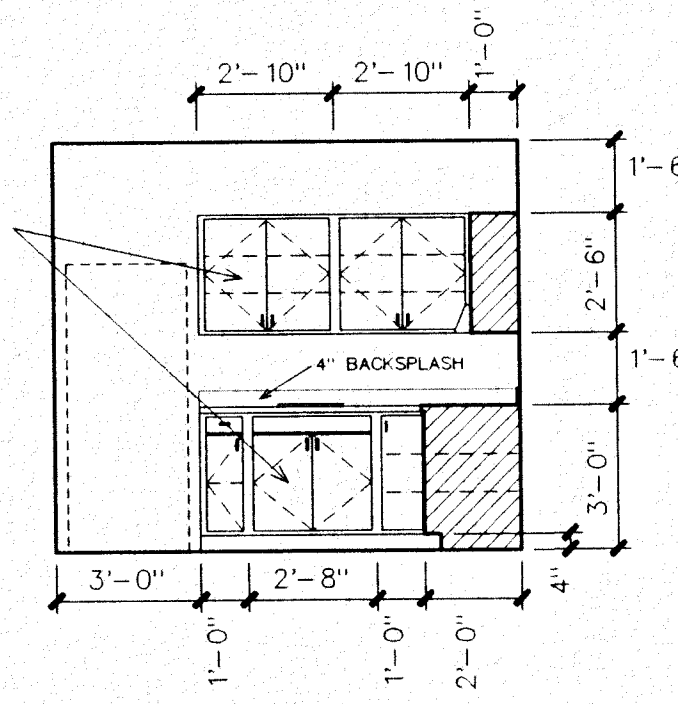
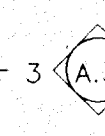
MUDROOM
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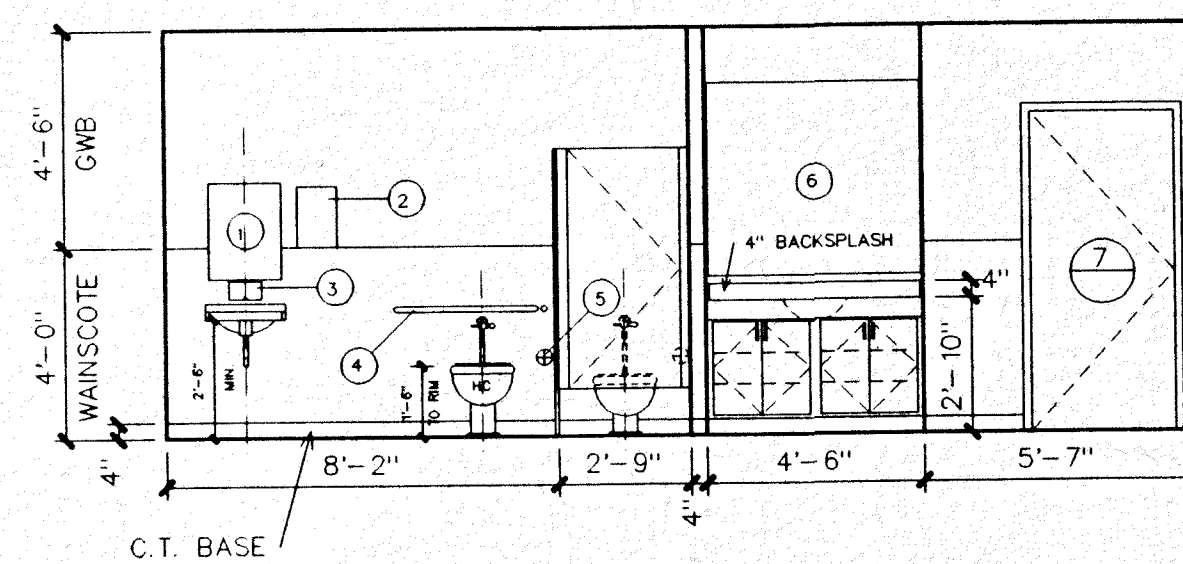
MUDROOM
SCALE: 1/4" = 1'-0"



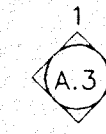
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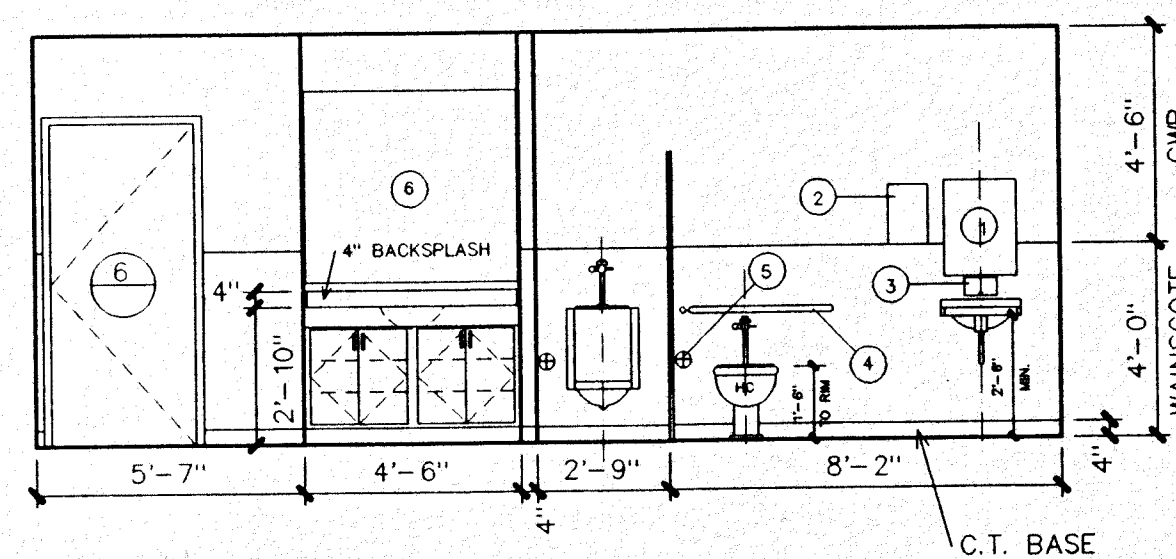
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WOMEN
SCALE: 1/4" = 1'-0"

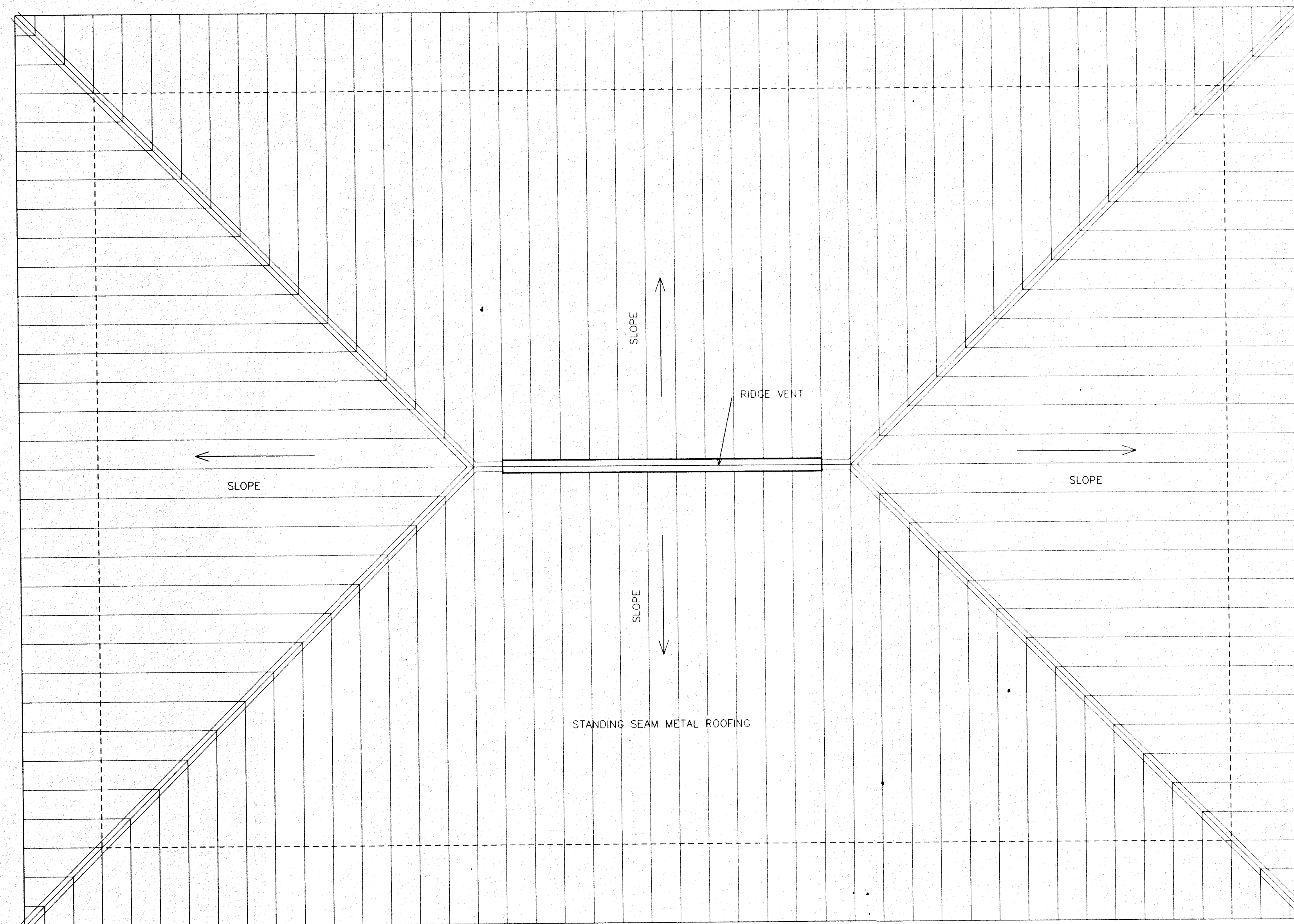
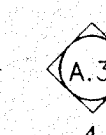


- ① 18"x24" FRAMED MIRROR @ 40" (MAX.) TO BOTTOM OF UNIT
- ② PAPER TOWEL DISPENSER @ 48" (MAX.) TO BOTTOM OF UNIT
- ③ WALL MOUNTED SOAP DISPENSER AS SHOWN
- ④ 36" REAR GRAB BAR AND 42" SIDE GRAB BAR @ 36" (MAX.) TO TOP OF UNIT
- ⑤ TOILET PAPER DISPENSER @ 20" TO CENTER OF ROLL AND 36" (MAX.) FROM REAR WALL TO OUTSIDE FACE OF DISPENSER
- ⑥ 48" HIGH MIRROR



MEN

SCALE: 1/4" = 1'-0"



ROOF PLAN

SCALE: 1/4" = 1'-0"

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WASTEWATER TREATMENT FACILITY
OPERATIONS BUILDING

JACKSONVILLE, FLORIDA

ROOF PLAN
INTERIOR ELEVATIONS

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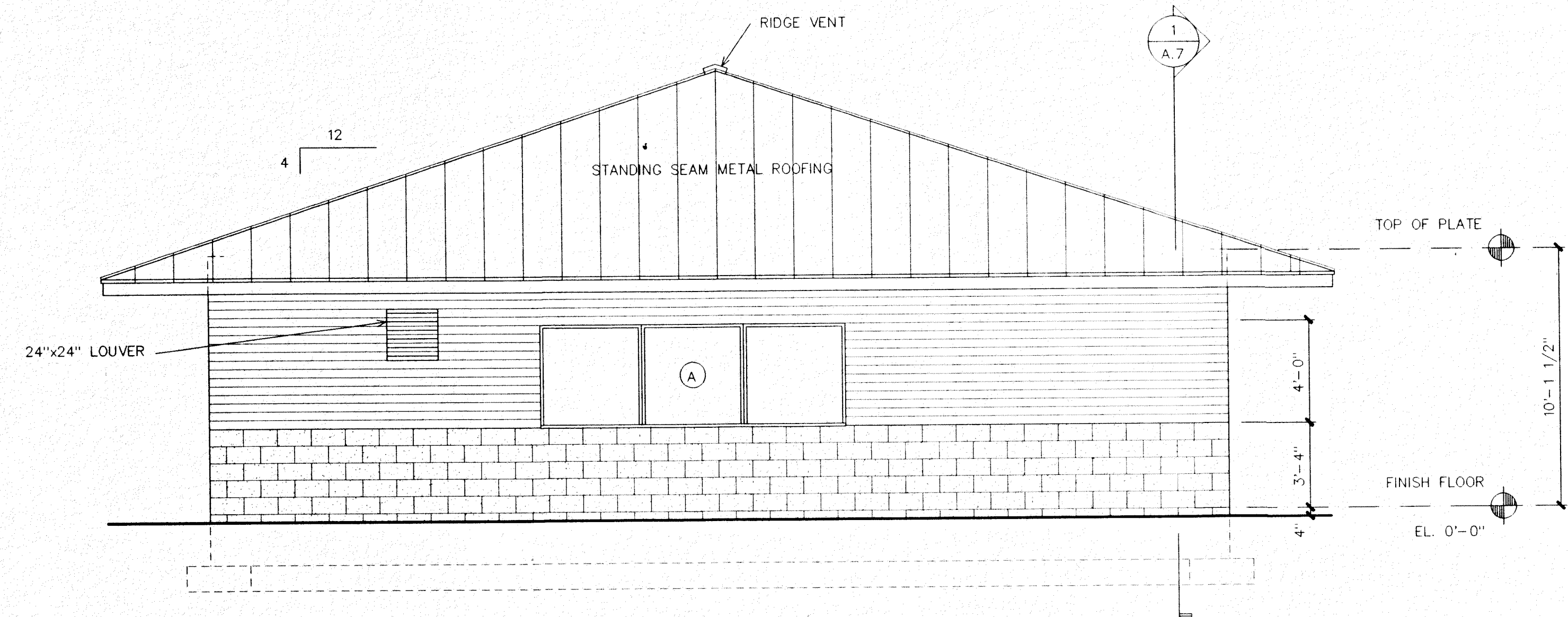
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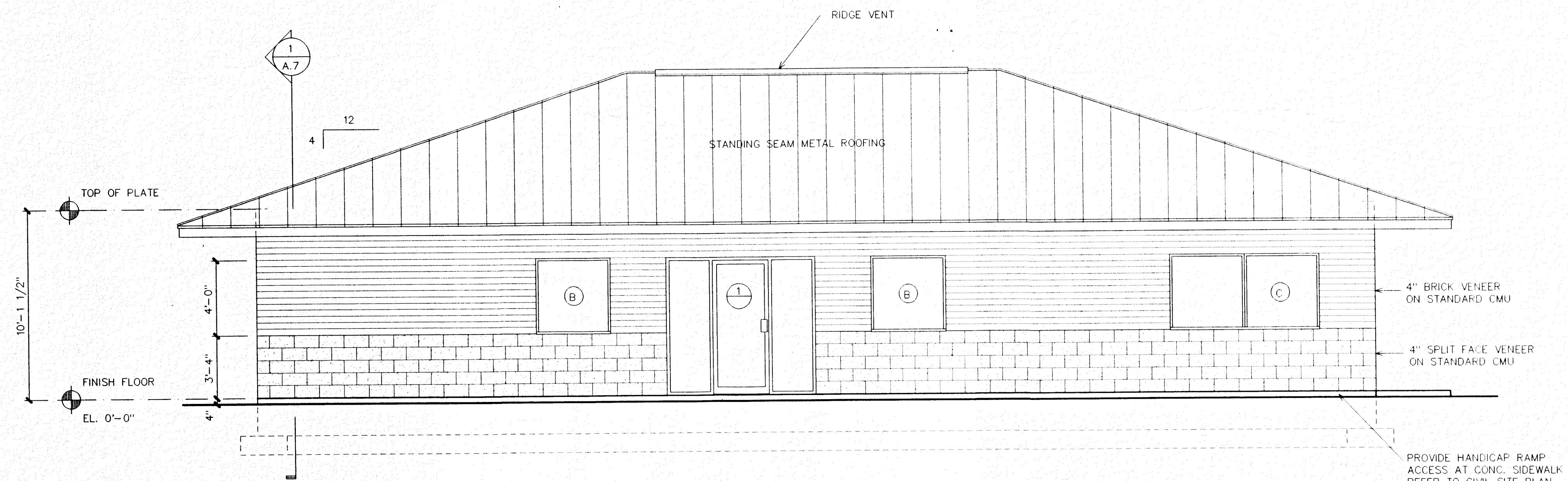
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OPERATIONS BUILDING

A.3



NORTH ELEVATION

SCALE: 1/4" = 1'-0"



WEST ELEVATION

SCALE: 1/4" = 1'-0"

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**WEST & NORTH BUILDING
ELEVATIONS**

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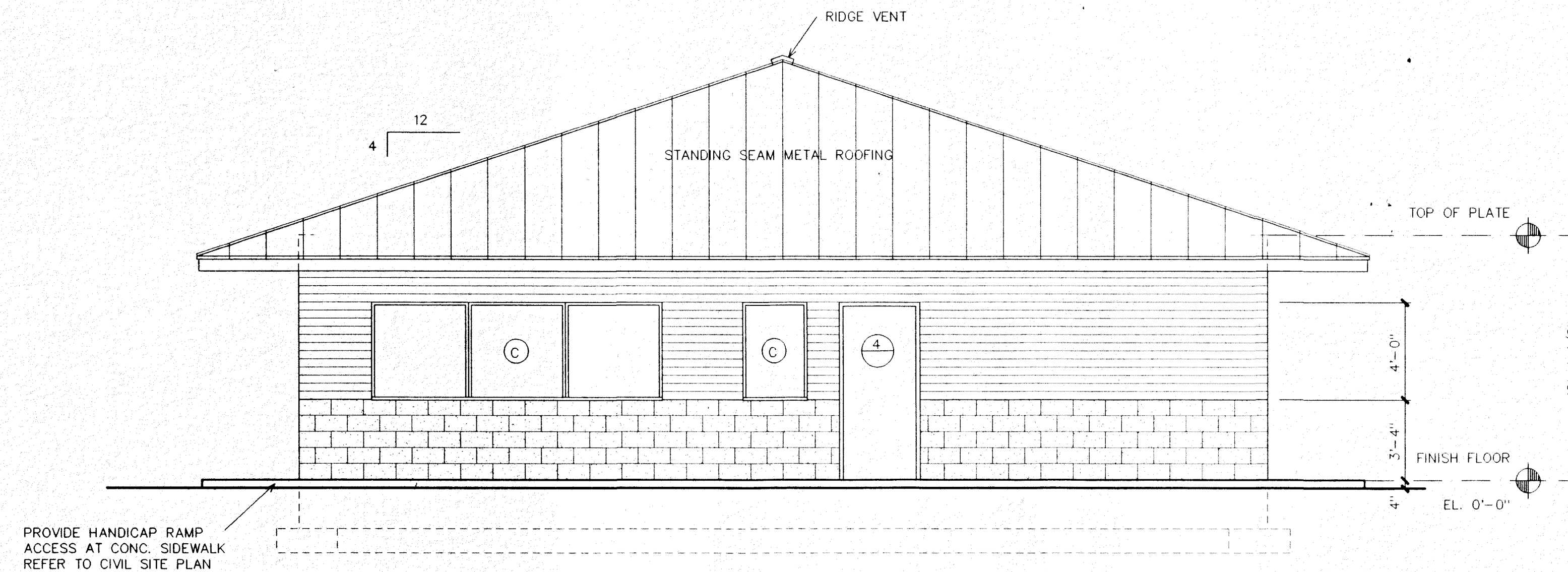
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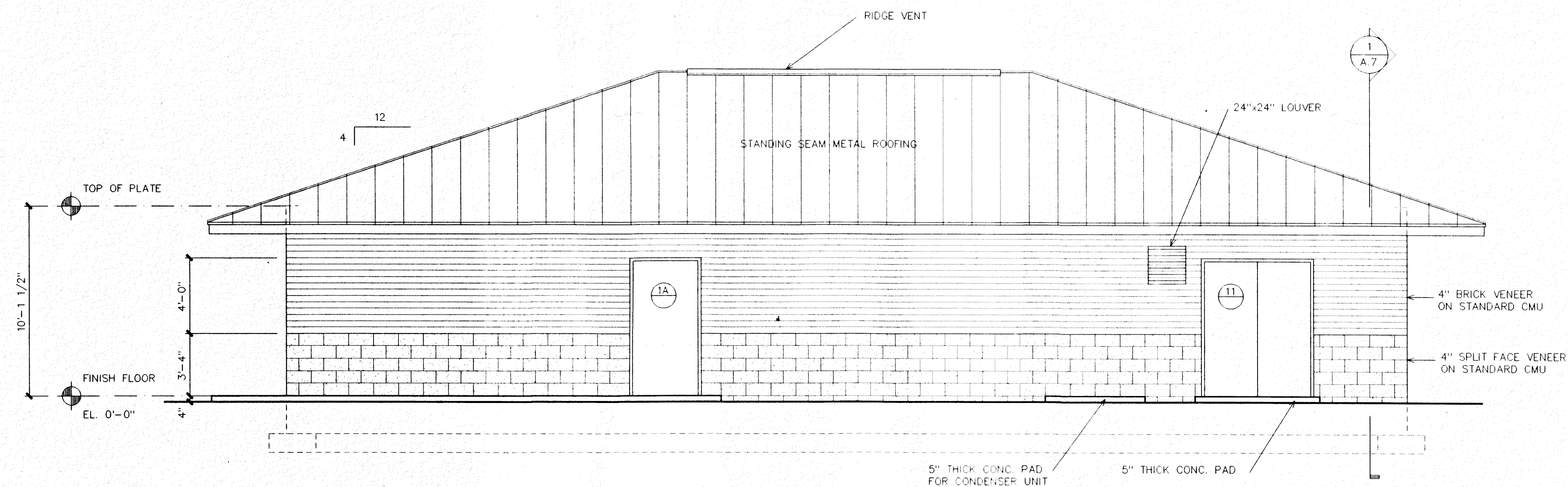
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MONTEREY FACILITY WWTF
OPERATIONS BUILDING

A. 4



SOUTH ELEVATION

SCALE: 1/4" = 1'-0"



EAST ELEVATION

SCALE: 1/4" = 1'-0"

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WASTEWATER TREATMENT FACILITY
OPERATIONS BUILDING

JACKSONVILLE, FLORIDA

EAST & SOUTH BUILDING
ELEVATIONS

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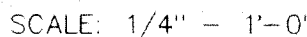
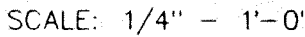
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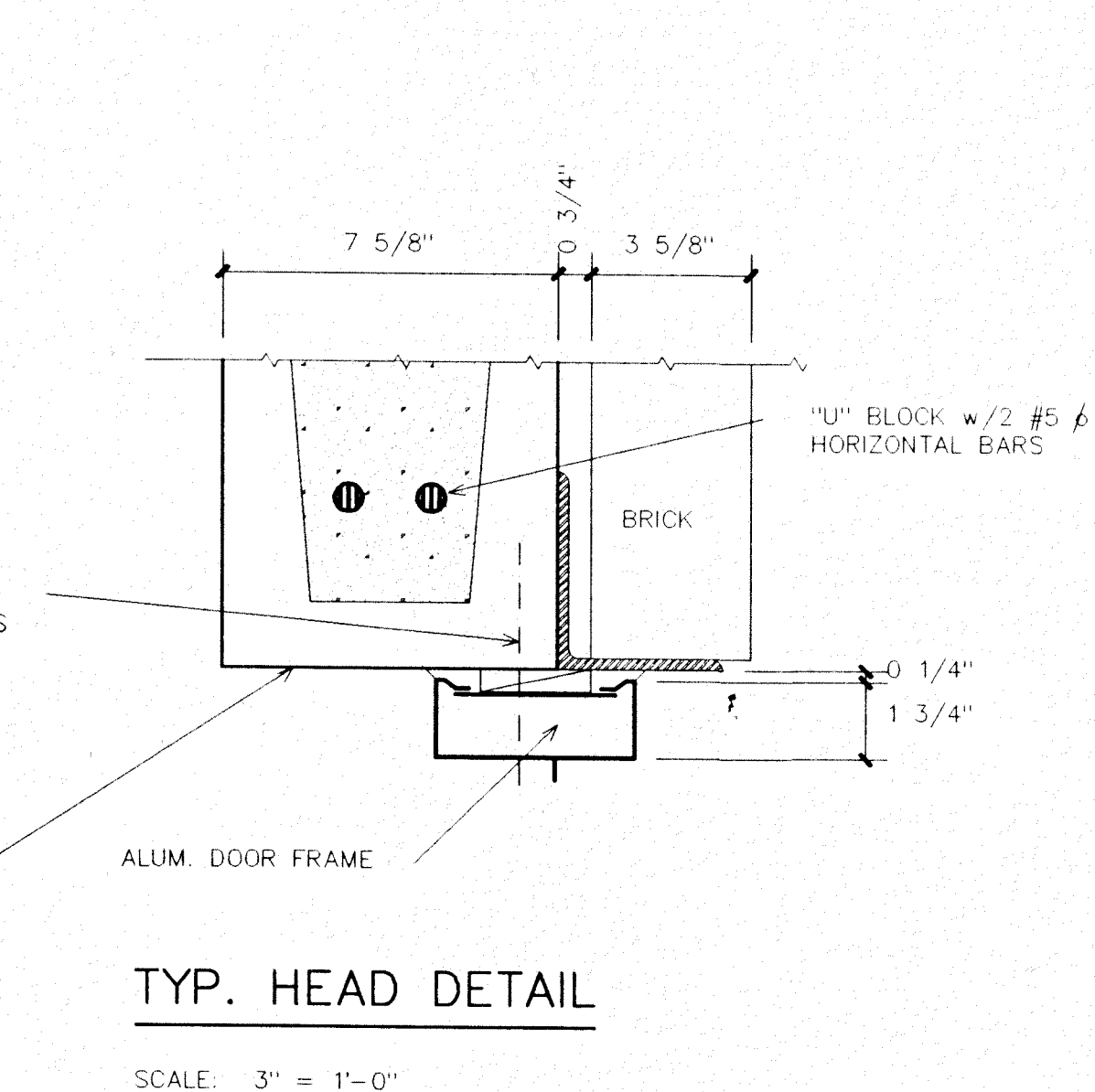
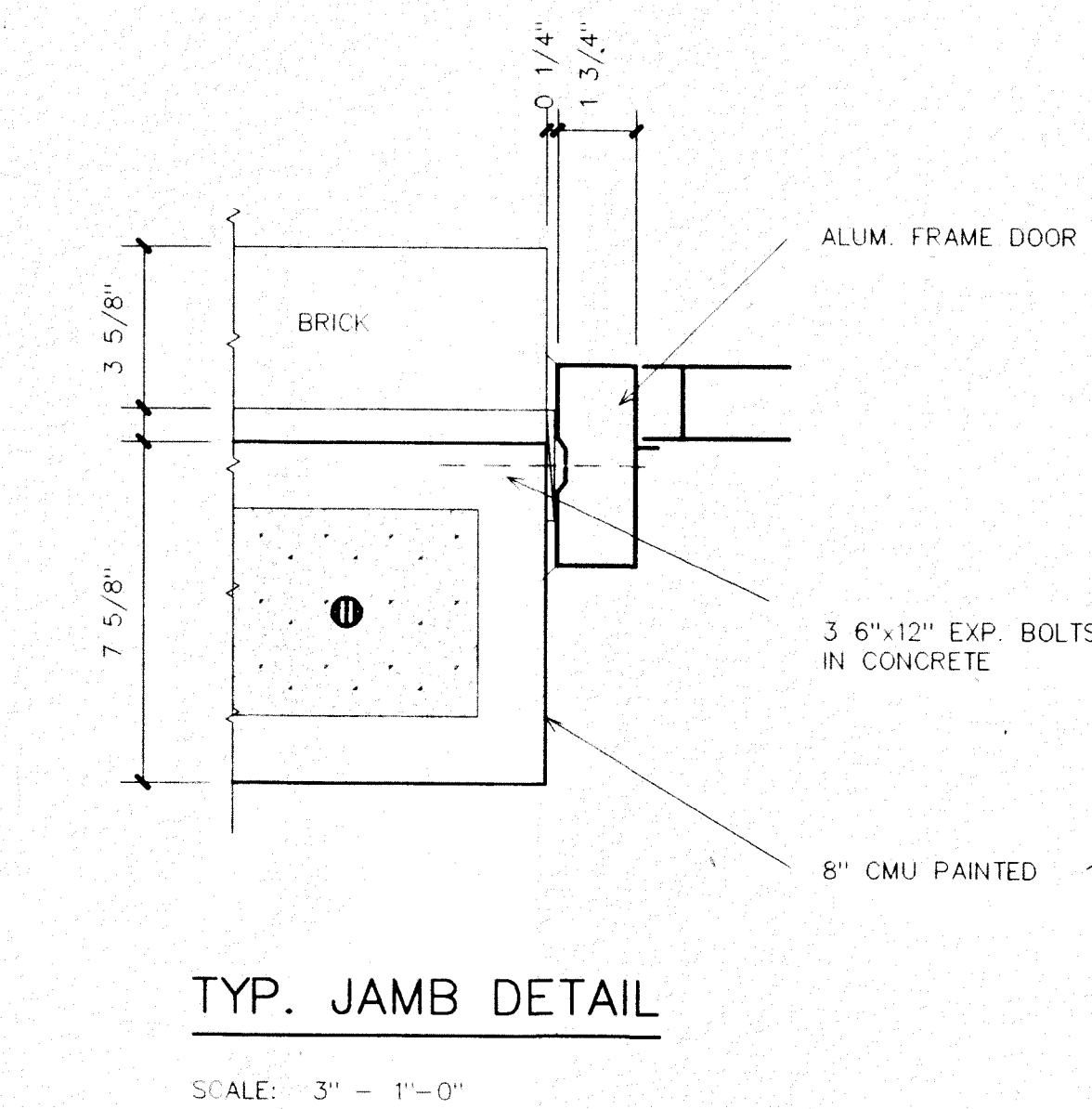
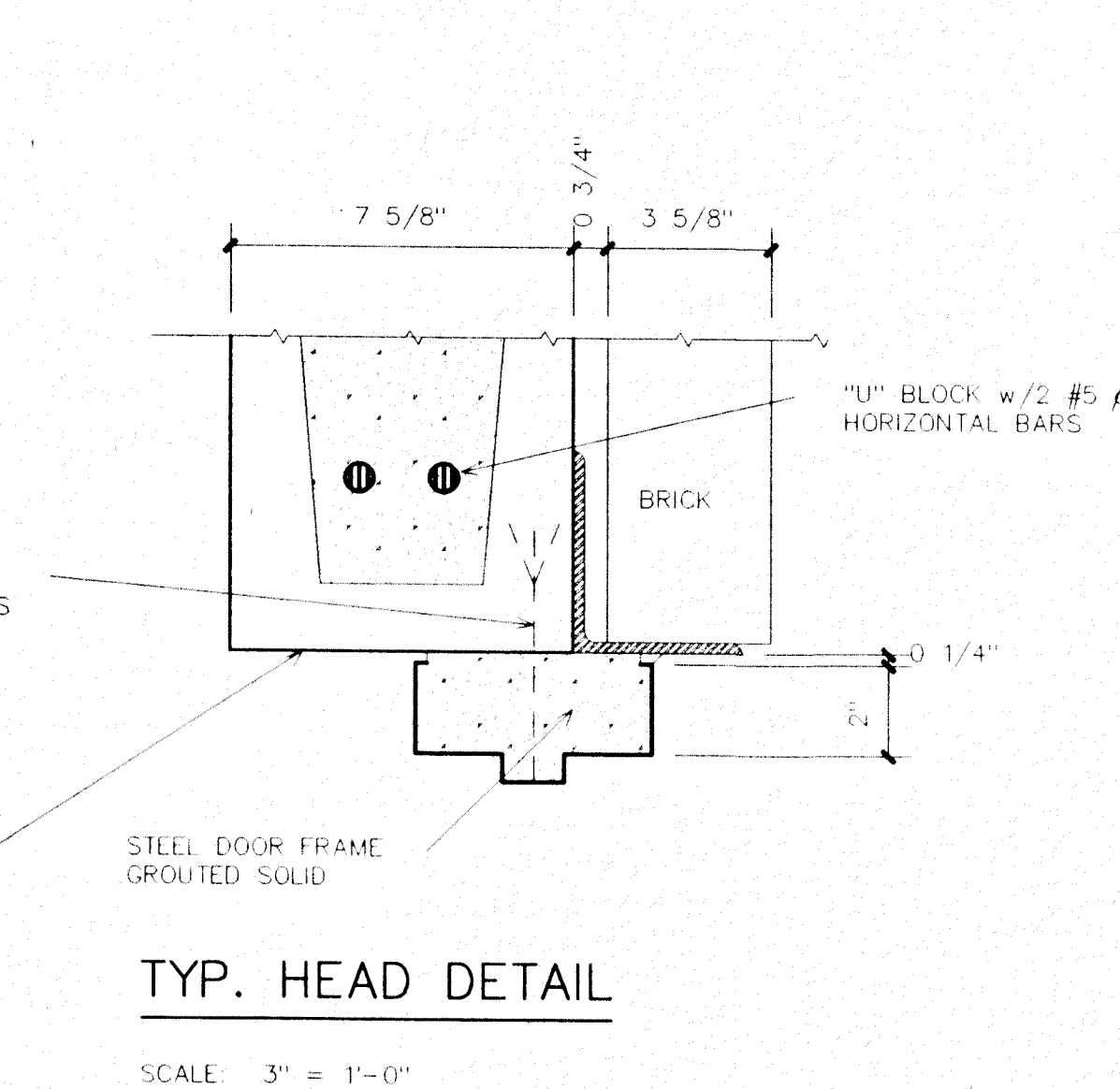
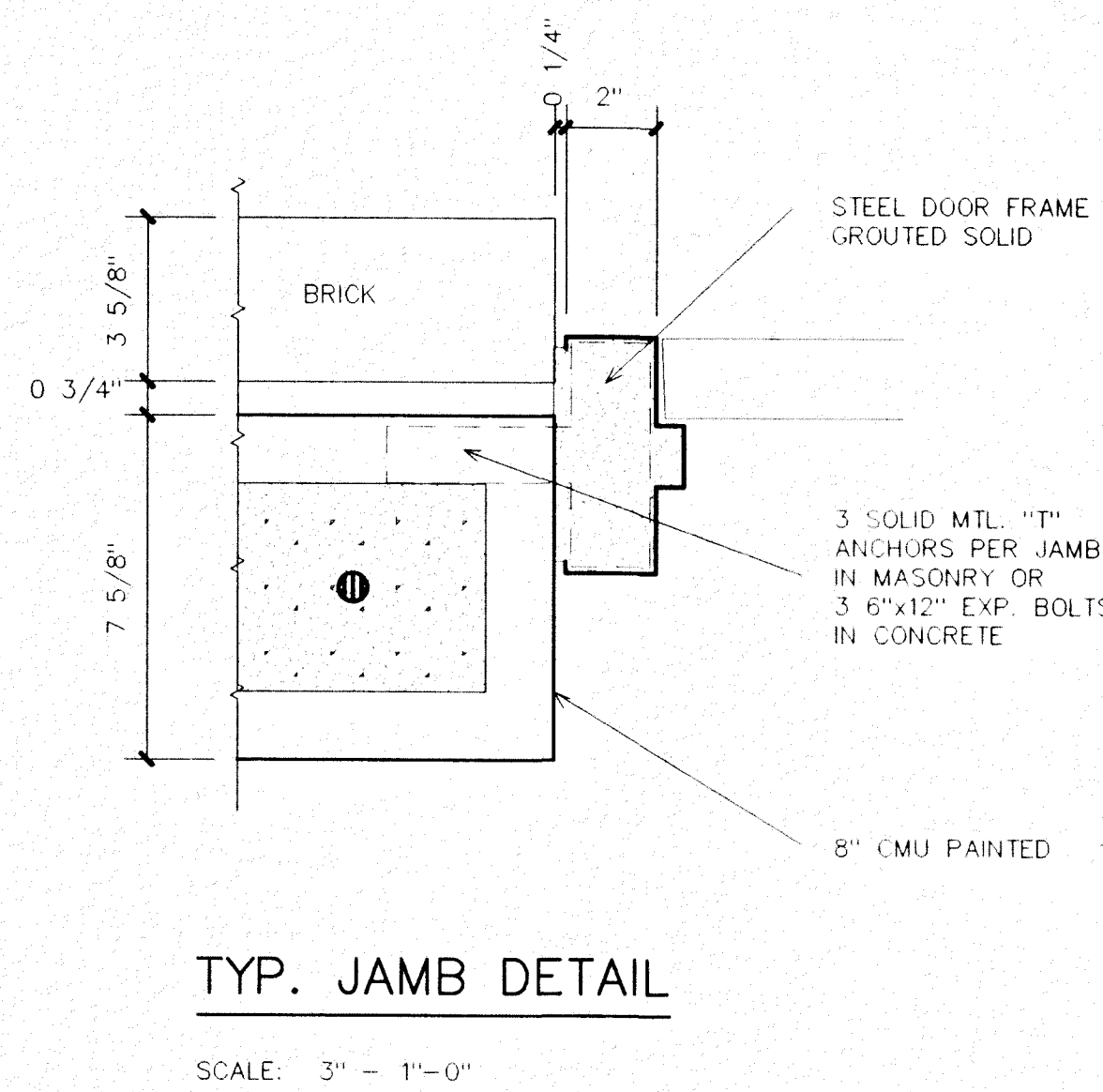
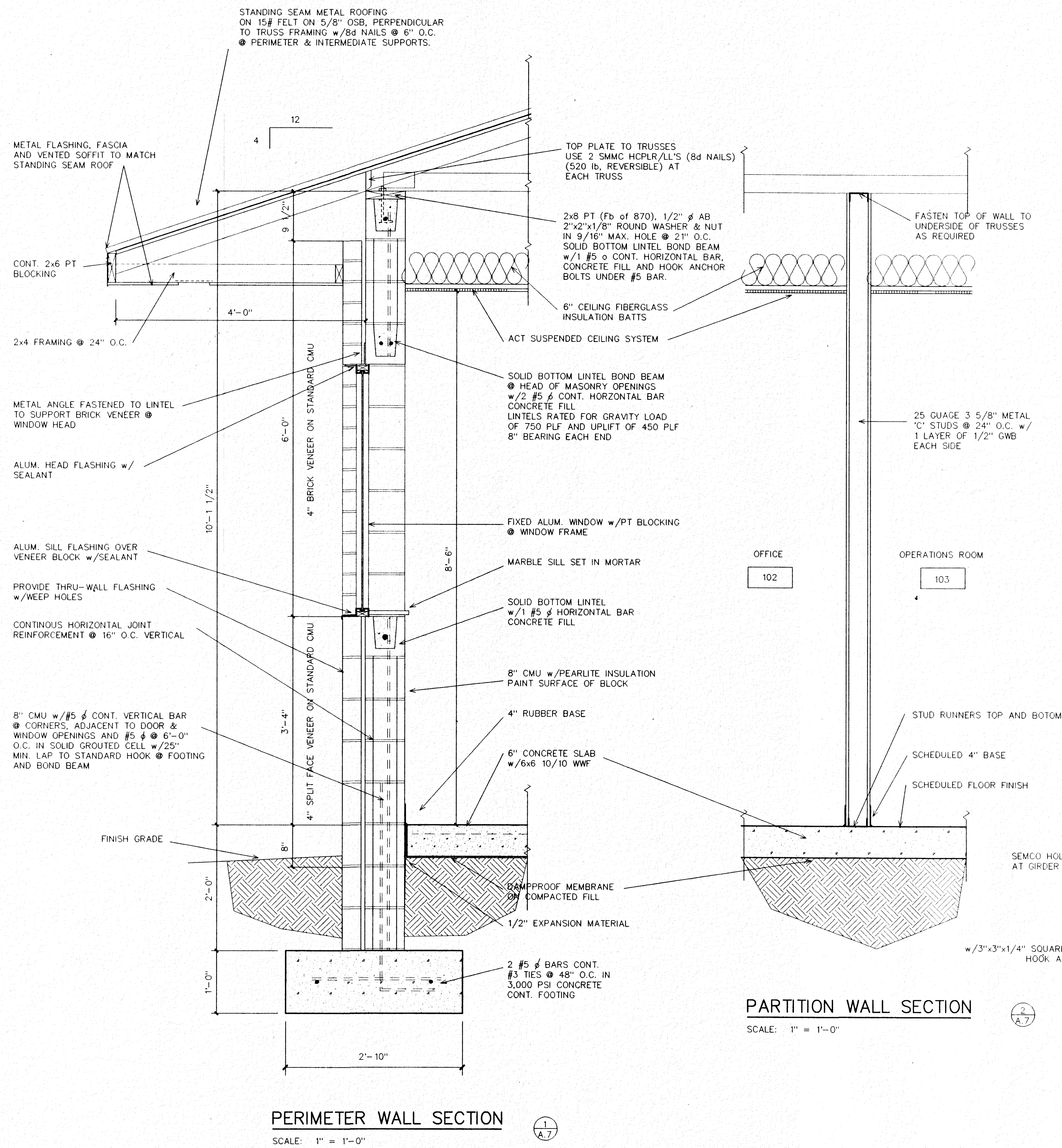
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OPERATIONS BUILDING

A.5



CHECKED B

**MONTEREY FACILITY WWTF
OPERATIONS BUILDING**



WOOD TRUSS NOTES

ALL DESIGN SHALL BE PER STANDARD BUILDING CODE.

SHOP DRAWINGS AND CALCULATIONS PREPARED BY AND SIGNED AND SEALED
BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA SHALL BE SUBMITTED
FOR APPROVAL PRIOR TO INITIATION OF WORK.

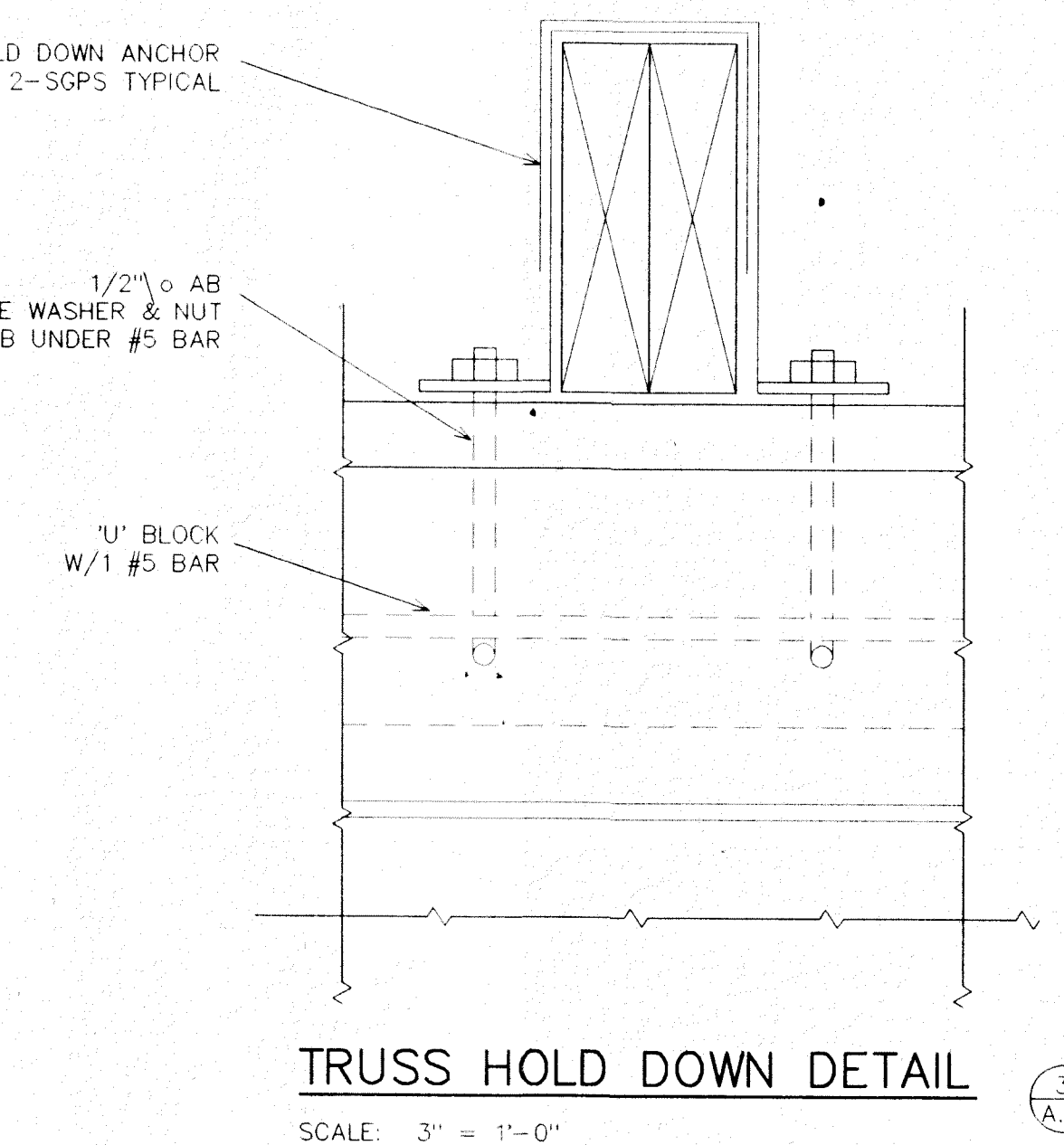
ALL BRIDGING AND BRACING, INCLUDING ERECTION BRACING, REQUIRED FOR
THE FINISHED PRODUCT SHALL BE DESIGNED AND FURNISHED.

SPACING AND LAYOUT OF TRUSSES SHALL BE AS INDICATED ON THE ROOF
FRAMING PLAN.

WIND UPLIFT LOAD (SBCCI SSTD 10-93) 1185 x .80 = 948 lb.

TOP PLATE TO TRUSSES AT 24" O.C. (948 lb, UPLIFT) USE 2 SMMC HCPLR/LL'S
(8d NAILS) (520 lb, REVERSIBLE) AT EACH TRUSS.

TRUSS SUPPLIER SHALL BE RESPONSIBLE FOR PROVIDING ROOF FRAMING DESIGN,
FRAMING LAYOUTS, SHOP DRAWINGS, DETAILS AND DESIGN CALCULATIONS. THE
ROOF FRAMING PLAN AND DETAILS SHOWN IN THESE DRAWINGS ARE FOR DESIGN
INTENT ONLY.



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ROOF PLAN
TYPICAL WALL SECTION

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OPERATIONS BUILDING

A.7

AIR DISTRIBUTION SCHEDULE				
MARK	DESCRIPTION	MATERIAL	FINISH	BASIS OF DESIGN
A	24" X 24" FACE 8" DIA NECK SUPPLY DIFFUSER	STEEL	WHITE	TITUS TMS
B	24" X 24" FACE 10" DIA NECK SUPPLY DIFFUSER	STEEL	WHITE	TITUS TMS
C	12" X 12" NECK RETURN AIR GRILLE	ALUMINUM	WHITE	TITUS 50R
D	16" X 16" NECK RETURN AIR GRILLE	ALUMINUM	WHITE	TITUS 50R
E	12" X 12" RETURN AIR DOOR GRILLE	STEEL	WHITE	TITUS T-700
NOTES: 1. PROVIDE BORDER STYLES TO SUIT CEILING CONSTRUCTION. 2. PROVIDE OPTIONAL AG-15 OPPOSED BLADE BALANCING DAMPER FOR "C".				

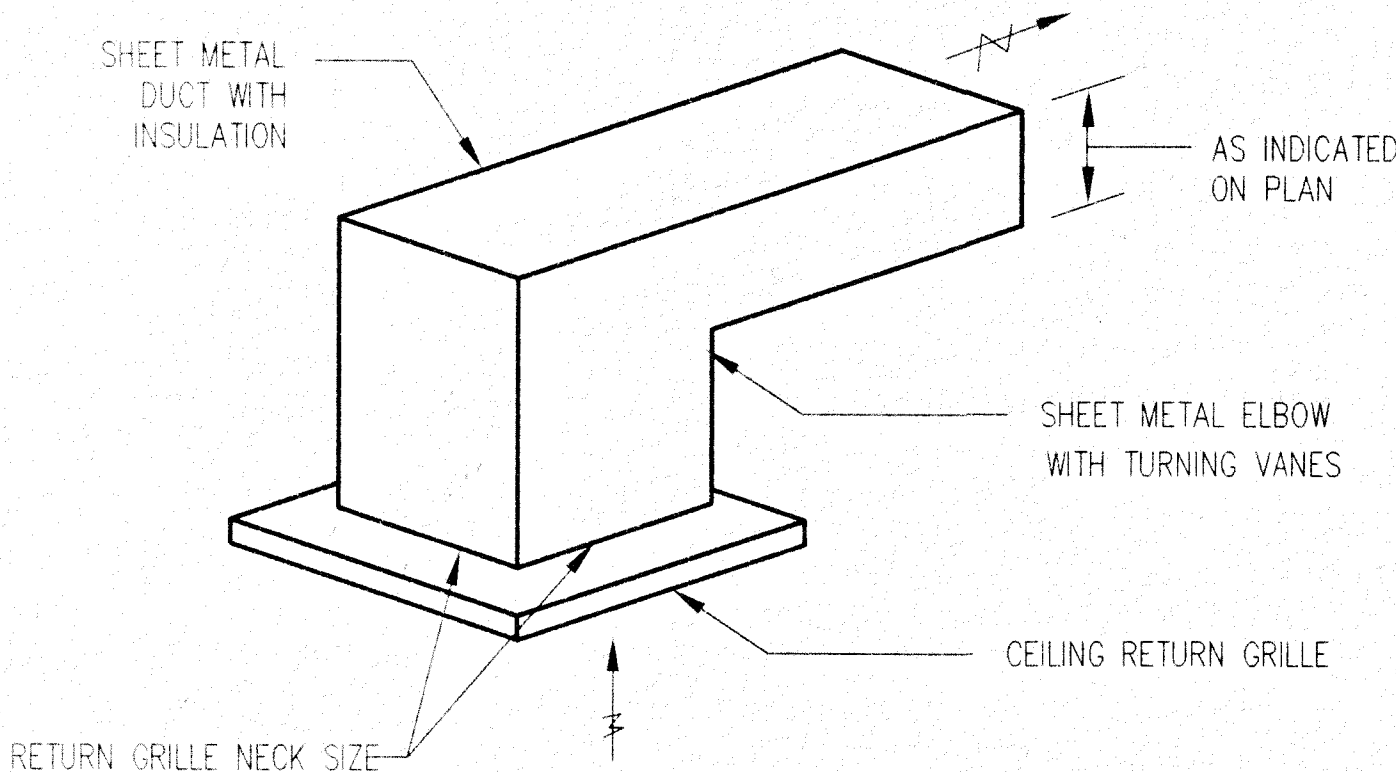
EXHAUST FAN SCHEDULE					
PLAN MARK			ELECTRICAL DATA		PENN MODEL NO.
	CFM	S.P.	MOTOR HP	VOLT/PHASE	
EF-1	820	.500	1/3	115/1	SX125B
NOTE: 1. FAN EF-1 SHALL BE INTERLOCKED WITH AHU-1 AND RUN ONLY WHEN AHU-1 IS RUNNING.					

DUCT HEATER SCHEDULE						
PLAN MARK	KW	CFM	TYPE	No. OF STAGES	DUCT SIZE	VOLT/PHASE
EDH-1	19.0	2300	SLIP-IN	2	24 X 14	460/3
NOTE: 1. ELECTRIC DUCT HEATER SHALL BE INTERLOCKED WITH CONDENSING UNIT TO NOT BE ENERGIZED WHEN CONDENSING UNIT IS RUNNING. 2. PROVIDE STAINLESS STEEL TERMINALS. 3. ELECTRIC HEATER, INC. DB2 SERIES						

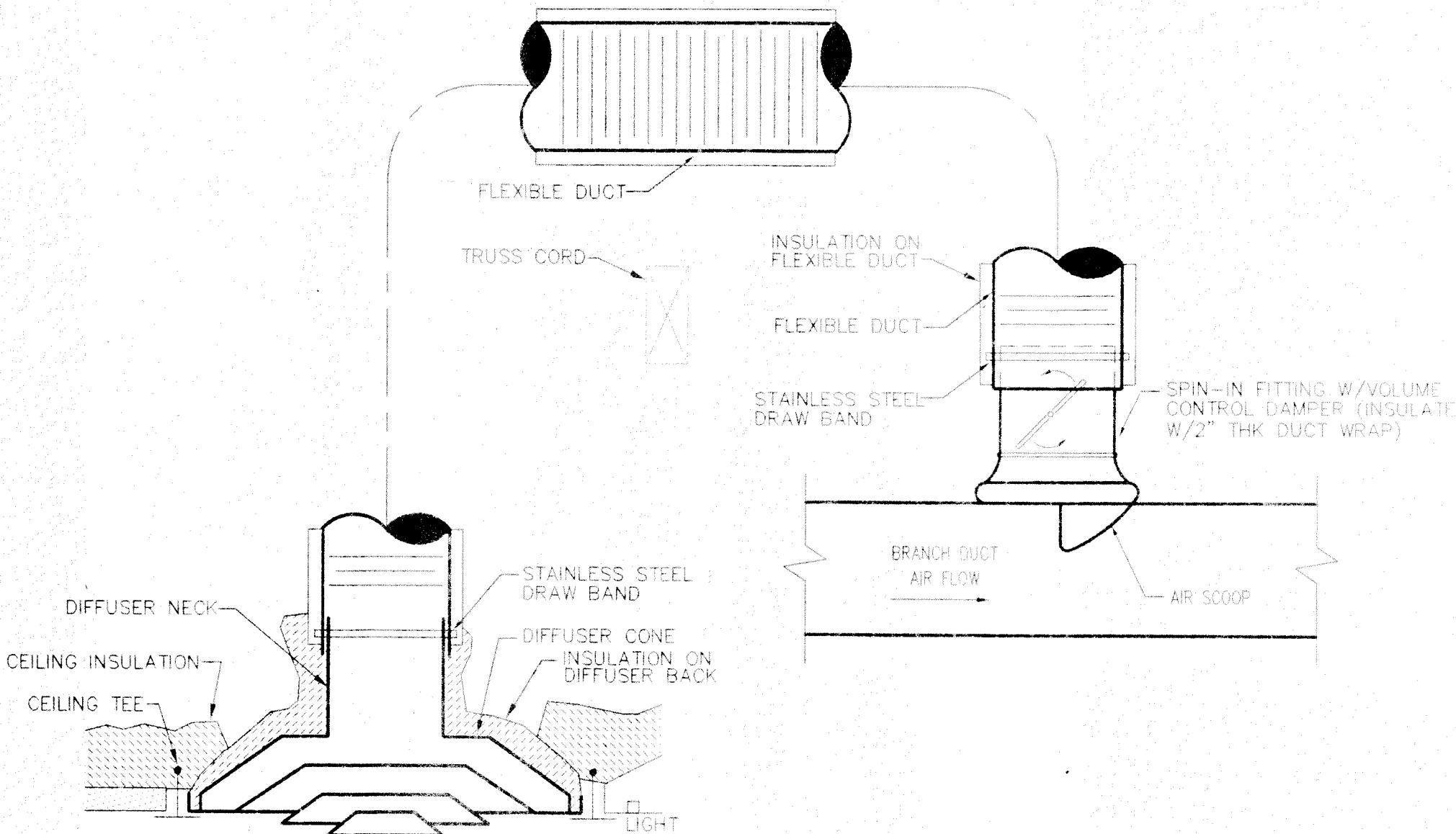
AIR HANDLING UNIT SCHEDULE													TRANE MODEL NO.
PLAN MARK	UNIT TYPE	FAN DATA						DX COOLING COIL DATA					
		CFM	EXT. SP	TOTAL SP	DRIVE TYPE	MOTOR HP	VOLT/ PHASE	O.S. AIR	ENT. DB	ENT. WB	SEN. MBH	TOT. MBH	
AHU-1	HDT	2300	1.25	2.125	BELT	2	208/3	900	84.7	69.5	64.800	99.600	MCC 060

NOTES: 1. PROVIDE 30% FILTERS FOR EACH UNIT.

AIR COOLED CONDENSING UNIT SCHEDULE										
PLAN MARK	ELECTRICAL DATA				FAN DATA			EER	TRANE MODEL NO.	
	COMP QTY	MOTOR FLA	MOTOR LRA	VOLT/PHASE	AIR FLOW	MOTOR NO.	MOTOR HP			
CU-1	1	39.2	224	208/3	7790	1	1.0	10.1	TTA120A3	



TYPICAL RETURN AIR GRILLE DETAIL
N.T.S.



DIFFUSER MOUNTING AND FLEXIBLE DUCT DETAIL
N.T.S.

MECHANICAL NOTES

1. PROVIDE DRAINABLE 4 INCH EXTRUDED ALUMINUM LOUVER. LOUVER SHALL BE PENN VENTILATOR MODEL M-4 OR APPROVED EQUAL WITH TYPE R SILL.
2. PROVIDE 5 1/2 INCH THICK CONCRETE PAD OF SIZE TO SUIT EQUIPMENT SUPPORTED. CHAMFER EDGES AT 45 DEGREES. PAD SHALL BE 3000 PSI CONCRETE WITH 6 X 6 WELDED WIRE MESH TURNED BACK UNDER AT EDGES. PAD SHALL EXTEND A MINIMUM OF 6 INCHES BEYOND EQUIPMENT BASE.
3. INSTALL EPH-1 AS INDICATED AND IN ACCORDANCE WITH THE CURRENT EDITION OF SMACNA DUCTED ELECTRIC HEAT GUIDE FOR AIR HANDLING SYSTEMS.
4. SUPPORT EF-1 FROM OVERHEAD USING GALVANIZED THREADED ROD AND RUBBER-IN-SHEAR VIBRATION ISOLATORS, MASON TYPE 30N OR APPROVED EQUAL.
5. SUPPORT REFRIGERANT PIPING WITH UNISTRUT OR APPROVED EQUAL. ATTACH SUPPORTS TO WALLS, PAD OR SLAB WHERE AVAILABLE. PROVIDE 8 INCH SQUARE CAST-IN-PLACE CONCRETE PIER AT EXTERIOR SUPPORT POINTS. PIER SHALL EXTEND A MINIMUM OF 12 INCHES BELOW GRADE. SPAN BETWEEN SUPPORTS SHALL NOT EXCEED 4 FEET.
6. LOCATE CONDENSING UNIT A MINIMUM OF 5 FEET FROM BUILDING TO PREVENT EAVES FROM DRIPPING ON UNIT OR PAD.
7. PROVIDE FULL SIZE CONDENSATE PIPING FROM AHU COIL DRAIN TO FLOOR DRAIN. TURN DOWN PIPING OVER FLOOR DRAIN, LEAVING A MINIMUM OF 1 INCH AIR GAP BETWEEN END OF PIPE AND FINISH FLOOR. INSULATE CONDENSATE PIPING WITH 1/2 INCH THICK CELLULAR FOAM RUBBER.
8. PROVIDE TRAP IN CONDENSATE LINE. TRAP SHALL BE FABRICATED FROM TEES, ELBOWS AND PLUGS TO ALLOW CLEANING OF TRAP. TRAP SHALL BE A MINIMUM OF 2 INCHES DEEP ON SHORT LEG.
9. PROVIDE 16 GAUGE SHEET METAL PLATE OVER LOUVER. ATTACH PLATE TO WALL WITH #12 SHEET METAL SCREWS AND INSERTS ON 6 INCH CENTERS. SET PLATE IN A CONTINUOUS BED OF SEALANT.
10. CUT HOLE IN PLATE THE SIZE OF THE DUCT. ATTACH DUCT TO PLATE WITH SHEET METAL SCREWS ON 6 INCH CENTERS. SEAL ALL AROUND.
11. BEFORE FABRICATION, VERIFY AND COORDINATE ALL DIMENSIONS IN THE FIELD.
12. VERIFY VOLTAGES WITH ELECTRICAL CONTRACTOR BEFORE ORDERING.
13. COORDINATE DIFFUSER AND REGISTER LOCATIONS WITH ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL REFLECTED CEILING PLANS.
14. DUCTWORK LOCATIONS AND CLEARANCES SHALL BE COORDINATED WITH PLUMBING PLANS.
15. LOCATE THERMOSTAT 5'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
16. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
17. INSIDES OF DUCT VISIBLE THROUGH GRILLES, REGISTERS OR DIFFUSERS SHALL BE PAINTED FLAT BLACK.
18. ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCT (INCLUDING DIVIDED DUCT) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER.
19. FLEXIBLE DUCTWORK SHALL BE THE SAME DIAMETER AS DIFFUSER NECK UNLESS OTHERWISE NOTED.
20. PROVIDE PROGRAMMABLE ELECTRONIC NIGHT SETBACK THERMOSTAT WITH 7 DAY, 5-1-1 PROGRAMMING CAPABILITY. PROVIDE THERMOSTAT WITH 1 STAGE OF COOLING AND 2 STAGES OF HEATING.

HVAC SYMBOL LEGEND

- SUPPLY AIR DUCT
- RETURN OR OUTSIDE AIR DUCT
- EXHAUST AIR DUCT
- CEILING SUPPLY OUTLET
- CEILING RETURN OUTLET
- CEILING EXHAUST OUTLET
- SQUARE ELBOW WITH AIR TURNING VANES (DOUBLE THICKNESS)
- AIR DEFLECTING DEVICE AT BRANCH TAKEOFF
- OBVD (OPPOSED BLADE VOLUME DAMPER)
- 24 X 12 RECTANGULAR DUCT SIZE (IN.) (FIRST FIGURE IS DIMENSION VIEWED)
- DUCT RISE IN DIRECTION OF ARROW
- DUCT DROP IN DIRECTION OF ARROW
- INSULATED ROUND FLEXIBLE DUCT TAKEOFF
- CONVERGING TEE 45 DEGREE ENTRY
- THERMOSTAT
- CFM CUBIC FEET PER MINUTE
- OBVD OPPOSED BLADE VOLUME DAMPER
- S.A. SUPPLY AIR
- R.A. RETURN AIR
- O.A. OUTSIDE AIR
- S.P. STATIC PRESSURE
- EXT. EXTERNAL
- REG. REGISTER
- P.D. PRESSURE DROP
- ENT. ENTERING
- LVG. LEAVING
- COND. CONDENSATE DRAIN
- A.P. ACCESS PANEL
- W.G. WATER GAUGE

GARY L. McDONALD, ARCHITECT

12237 HEEVER RUN DRIVE
JACKSONVILLE, FLORIDA 32225
904 645-9407

UNITED WATER FLORIDA

MONTEREY WASTEWATER TREATMENT
FACILITY OPERATIONS BUILDING

JACKSONVILLE, FLORIDA

DCAD FILE: 19A02

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PROJECT NO.: 9804B
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DRAWN BY: PWM
CHECKED BY: PWM

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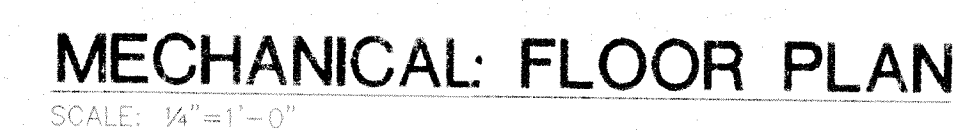
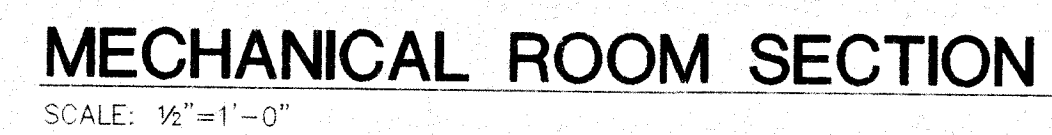
MONTEREY FACILITY WWTF

OPERATIONS BUILDING

PAUL MICHAEL

MECHANICAL DESIGN

ORANGE PARK, FLORIDA



M.2

NOW IS THE TIME

PLUMBING FIXTURE SCHEDULE

P-1 WATER CLOSET:

1. WATER SAVER, VITREOUS CHINA, SIPHON JET ACTION, FLOOR MOUNTED, ELONGATED BOWL
2. SEAT: WHITE EXTRA HEAVY DUTY PLASTIC FOR ELONGATED BOWL, OPEN FRONT SEAT LESS COVER WITH CONCEALED CHECK AND STAINLESS STEEL HINGE POST
3. SUPPLY: EXPOSED FLUSH VALVE, NON HOLD OPEN HANDLE, SCREWDRIVER BAK-CHEK, ADJUSTABLE TAILPIECE, SWEAT SOLDER, SOLID RING PIPE SUPPORT.

ELJER 111-1115
KOHLER K-4262-ET
AMERICAN STANDARD 2221-018
CRANE 3H-701

BEMIS 1655-SS/C
OLSONITE 95-CC-SS
BENEKE 527 SS/CH-HPSS
SPERZEL 50 ESS/CH

SLOAN ROYAL 110-3-YBYK
DELANY 402-3-T5-T42-T36

P-2 HANDICAPPED WATER CLOSET:

1. WATER SAVER, VITREOUS CHINA, 20" HIGH FROM FIN. FLR. TO TOP OF SEAT, SIPHON JET ACTION, FLOOR MOUNTED, ELONGATED BOWL.
2. SEAT: WHITE EXTRA HEAVY DUTY PLASTIC FOR ELONGATED BOWL, OPEN FRONT SEAT LESS COVER WITH CONCEALED CHECK AND STAINLESS STEEL HINGE POST
3. SUPPLY: EXPOSED FLUSH VALVE, NON HOLD OPEN HANDLE, SCREWDRIVER BAK-CHEK, ADJUSTABLE TAILPIECE, SWEAT SOLDER, SOLID RING PIPE SUPPORT. FLUSH VALVE NOT TO EXCEED 44" FROM FINISH FLOOR.

ELJER 111-1245
KOHLER K-4268-ET
AMERICAN STANDARD 9468.018
BRIGGS MODEL R 4730-WHT

BEMIS 1655-SS/C
OLSONITE 95-CC-SS
BENEKE 527 SS/CH-HPSS

SLOAN ROYAL 115-YBYK
DELANY 414-T5-T42-T36

P-3 URINAL:

1. WATER SAVER, VITREOUS CHINA, WALL HUNG, SIPHON JET, INTEGRAL FLUSHING RIM, INTEGRAL TRAP, WALL HANGERS, 2" FLANGED FEMALE OUT-LET, 3/4" TOP SPUD.
2. SUPPLY: EXPOSED FLUSH VALVE, NON-HOLD OPEN HANDLE, SCREWDRIVER BAK-CHEK, ADJUSTABLE TAILPIECE, SWEAT SOLDER, SOLID RING PIPE SUPPORT.
3. CARRIER

CRANE 7-150
ELJER 161-1090
KOHLER K-4985-T
AMERICAN STANDARD 6561.017

SLOAN ROYAL 186-YB-YK
DELANY 451-T5-T42-T36

JOSAM 17800
WADE W440-AM11
SMITH 637
ZURN ZR1222

P-4 LAVATORY:

1. VITREOUS CHINA, SELF RIMMING, 20" X 17" OVAL, PUNCHED FOR SINGLE FITTING.
2. FITTING: SINGLE COLD WATER FITTING, CHROME PLATED PUSH HANDLES, 1 1/4" GRID STRAINER AND TAILPIECE.
3. TRAP: ADJUSTABLE "P" TRAP W/ CLEANOUT, 1 1/4" X 1 1/2".
4. SUPPLY: 3/8" ANGLE SUPPLY WITH ANNEALED VERTICAL TUBE, LOOSE KEY STOPS AND ESCUTCHEON.

ELJER 051-3328
KOHLER K-2196
AMERICAN STANDARD 0475.020
CRANE 1-287-S

CHICAGO 335-E12VP
SPEAKMAN S-4122

McGUIRE 8902
ELJER 804-1185
KOHLER K-9000

McGUIRE 165-LK
ELJER 802-0325
KOHLER K-7607

P-5 LAVATORY

1. VITREOUS CHINA, WALL MOUNT, 21" X 18" WITH BACK, DRILLED 4" CENTERS. PROVIDE WITH CONCEALED WALL HANGER.
2. FITTING: 4" COMBINATION FITTING, CHROME PLATED WITH AERATOR, POP-UP DRAIN AND 1 1/4" TAILPIECE.
3. TRAP: ADJUSTABLE "P" TRAP W/ CLEANOUT, 1 1/4" X 1 1/2".
4. SUPPLY: 3/8" ANGLE SUPPLY WITH ANNEALED VERTICAL TUBE, LOOSE KEY STOPS AND ESCUTCHEON.

ELJER
KOHLER K-2005
AMERICAN STANDARD 4869.020

KOHLER K-7401-2A

McGUIRE 8902
ELJER 804-1185
KOHLER K-9000

McGUIRE 165-LK
ELJER 802-0325
KOHLER K-7607

P-6 SINK:

1. TYPE 302, 18-8 STAINLESS STEEL, SELF RIMMING, 19" X 21" X 71/2" DEEP, SINGLE COMPARTMENT, 3-HOLE PUNCHED, STAINLESS STEEL CUP STRAINER.
2. FITTING: SINGLE CONTROL, WASHERLESS KITCHEN SINK FAUCET WITH 8" SWING SPOUT.
3. TRAP: ADJUSTABLE P-TRAP WITH CLEANOUT ESCUTCHEON.
4. SUPPLY: 3/8" ANGLE SUPPLY WITH ANNEALED VERTICAL TUBE, LOOSE KEY STOPS AND ESCUTCHEON.

JUST SL 1921-A-GR/JB-99
ELKAY LR-2219/LK-99

ELJER 717-1700
KOHLER K-6896K
AMERICAN STANDARD 4205.159

ELJER 804-1190
KOHLER K-9000
McGUIRE 8912

McGUIRE 165-LK
ELJER 802-0325
KOHLER K-7607

P-7 HANDICAPPED LAVATORY:

1. VITREOUS CHINA, WALL HUNG, 20" X 18" PUNCHED FOR COMBINATION FITTING, PROVIDE WITH CONCEALED WALL HANGER, 29" CLEAR FROM FINISH FLOOR TO BOTTOM OF LAVATORY.
2. FITTING: 8" WIDESPREAD COMBINATION, CHROME PLATED 4" WRIST BLADE HANDLES, GOOSENECK NOZZLE WITH MIN. OF 7" BETWEEN DECK AND OUTLET OF NOZZLE, 1/2 GPM FLOW LIMITER.
3. TRAP: ADJUSTABLE "P" TRAP W/ CLEANOUT, WHEELCHAIR DRAIN OFFSET, INSULATE OFFSET AND TRAP WITH ARMAFLEX INSULATION.

ELJER 051-1818
KOHLER K-2030
AMERICAN STANDARD 0356.015
BRIGGS MODEL 6602

CHICAGO 786-E2605-5-327
SPEAKMAN SC-3004-BOCA-LD
T & S B-865-4
DELTA 3579 HDF

McGUIRE 155-WC
ELJER 804-1185/803-0530
KOHLER K-9000/13885

McGUIRE 165-LK
ELJER 802-0325
KOHLER K-7607

ZURN Z 1231
JOSAM 17100
WADE W-520

4. SUPPLY: 3/8" ANGLE SUPPLY WITH ANNEALED VERTICAL TUBE, LOOSE KEY STOPS AND ESCUTCHEON.
5. CARRIER: CAST IRON HAVING TUBULAR STEEL UPRIGHTS WITH CONCEALED ARMS AND SLEEVES MOUNTED ON ADJUSTABLE HEADERS WITH ESCUTCHEONS FOR SLAB TYPE LAVATORY. SYSTEM SHALL BE COMPLETE WITH HEAVY CAST IRON SHORT FEET ALIGNMENT TRUSSES AND MOUNTING FASTENERS.

P-8 SHOWER:

1. CONTROL VALVE - ANTI-SCALD BALANCED PRESSURE SHOWER VALVE WITH CHROME PLATED BRASS WALL FLANGE, SINGLE CHROME PLATED BRASS LEVER HANDLE WITH ADJUSTABLE TEMPERATURE LIMIT STOP, BRASS BODY CONTAINING PRESSURE BALANCING MODULE WITH CERAMIC TEMPERATURE SELECTOR. FOUR PORT VALVES WITH 1/2" I.P. INLETS AND OUTLETS.
2. SHOWER HEAD: 3-WAY HANDSHOWER AND 24" LONG SLIDE BAR, 60" METAL SHOWER HOSE WITH SWIVEL BASE, 3 GPM FLOW REGULATOR.
3. FLOOR DRAIN: CAST IRON WITH BOTTOM OUTLET COMBINATION INVERTABLE MEMBRANE CLAMP AND ADJUSTABLE NICKEL BRONZE STRAINER.
4. SHOWER STALL: BARRIER FREE WHEELCHAIR SHOWER, 52"X36" ONE PIECE SEAMLESS ACRYLIC WITH PERFORATED STRAINER.

SPEAKMAN S-1423-M
SYMMONS 86-1-X-L-B
POWERS 800
LEONARD PAM-11-ST
DANFOSS 062H4256

KOHLER K-9500 KIT

JOSAM 3000-4
WADE W-1100
ZURN ZN415 W/B TOP

KOHLER K12465

P-9 EYE WASH

1. EYE WASH FIXTURE, LABORATORY TYPE, CHROME PLATED SPRAYHEAD ASSEMBLY WITH SPRAYHEAD COVERS, CHROME PLATED 1/2" STAY-OPEN VALVE WITH FLAG HANDLE, COUNTER MOUNTED SWING-AWAY TYPE WITH INTEGRAL FLOW CONTROL.

BRADLEY MODEL S19-270B
HAWS MODEL 7612

P-10 HANDICAPPED DRINKING FOUNTAIN

1. BARRIER FREE HI-LO WALL HUNG REFRIGERATED UNIT DELIVERING 4 GPH AT 50 DEGREES WITH 90 DEGREE INLET WATER, AUTOMATIC STREAM HEIGHT AND TEMPERATURE CONTROL.

HALSY-TAYLOR HT-ESBP
HAWS HWDFS8-2

FD-1 FLOOR DRAIN

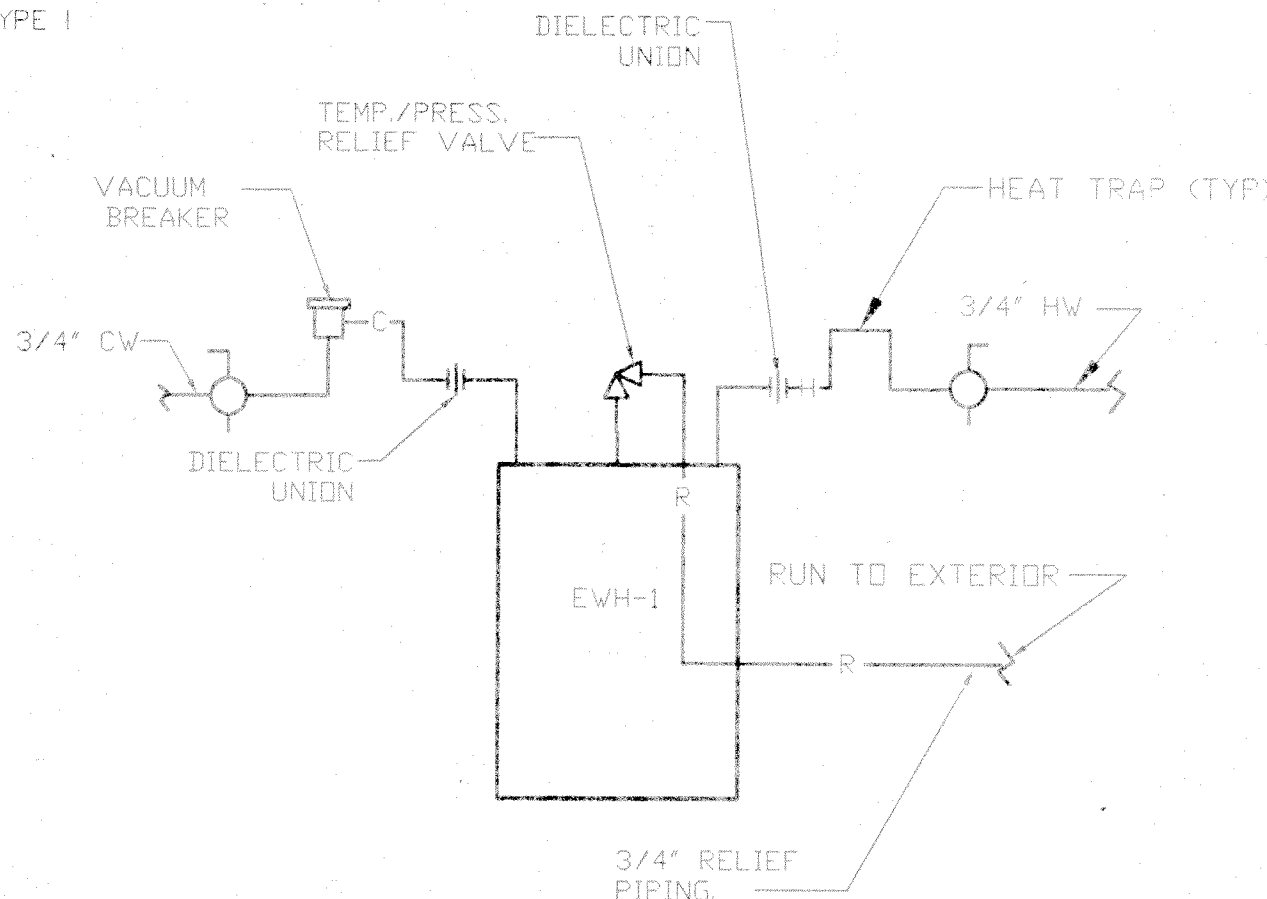
1. FLOOR DRAIN: DEEP SEAL CAST IRON WITH BOTTOM OUTLET, COMBINATION INVERTABLE MEMBRANE CLAMP AND ADJUSTABLE NICKEL BRONZE STRAINER.

JOSAM 3000-A
WADE W-1100
ZURN ZN415 W/B TOP

FD-2 FLOOR DRAIN

1. FLOOR DRAIN: DEEP SEAL CAST IRON WITH BOTTOM OUTLET, COMBINATION INVERTABLE MEMBRANE CLAMP AND RECESSED (EXTENDED RIM) NICKEL BRONZE STRAINER.

JOSAM 30004-6EI
WADE 1120-ER
ZURN Z453 TYPE I



PLUMBING NOTES

1. POTABLE WATER PIPING IN ATTIC SHALL BE INSULATED WITH 1" THICK PREFORMED FIBERGLASS PIPE INSULATION WITH ALL PURPOSE COVER.
2. TURN DOWN ELBOW 18" ABOVE GRADE.
3. INSULATE ALL HOT WATER PIPING WITH 1 1/2" THICK PREFORMED FIBERGLASS INSULATION WITH ALL PURPOSE COVER.
4. PROTECT COPPER PIPES FROM TOUCHING CONCRETE BY WRAPPING WITH PLASTIC OR RUBBER TAPE OR OTHER APPROVED MEANS.
5. SEAL PIPING PENETRATIONS OF WALLS WITH NON-HARDENING CAULK.
6. PROVIDE 18 INCH SQUARE, 4 INCH THICK CONCRETE PAD AT CLEANOUTS NOT IN SIDEWALKS, ASPHALT OR OTHER HARD SURFACED AREAS.
7. COORDINATE LOCATION OF ATTIC PIPING WITH HVAC DUCTWORK.
8. INSTALL SWING-AWAY TYPE EYEWASH FIXTURE TO BE OVER SINK WHEN IN USE.

PLUMBING LEGEND

C	COLD WATER PIPING
H	HOT WATER PIPING
S	SANITARY PIPING
V	VENT PIPING
C.O.	CLEANOUT
P.T.U.	PIPE TURNS UP
P.T.D.	PIPE TURNS DOWN
R	RELIEF PIPING
B.V.	BALL VALVE
V.B.	VACUUM BREAKER
U	UNION
W.H.A.	WATER HAMMER ARRESTOR

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
CO	CLEANOUT
CW	COLD WATER
EW-H-X	ELECTRIC WATER HEATER - UNIT NUMBER
FD-X	FLOOR DRAIN - UNIT NUMBER
HB-X	HOSE BIBB - UNIT NUMBER
HW	HOT WATER
P-X	PLUMBING FIXTURE - UNIT NUMBER
TYP	TYPICAL
V	VENT
VTR	VENT THRU ROOF

PLUMBING FIXTURE CONNECTIONS				
ITEM	COLD WTR	HOT WTR	DRAIN	REMARKS
P-1	1"	NONE	4"	WATER CLOSET
P-2	1"	NONE	4"	HANDICAP W C
P-3	1"	NONE	4"	URINAL
P-4	1/2"	1/2"	1 1/4"	DROP-IN LAV
P-5	1/2"	1/2"	1 1/4"	WALL MOUNT LAV
P-6	1/2"	1/2"	1 1/2"	SINK
P-7	1/2"	1/2"	1 1/4"	HANDICAP LAV
P-8	1/2"	1/2"	1 1/2"	SHOWER
P-9	1/2"	NONE	NONE	EYE WASH
P-10	1/2"	NONE	1 1/4"	WATER CLR

WATER HEATER SCHEDULE				
ITEM	CAP	ELECTRICAL		RHEEM MODEL
		VOLTS	WATTS	
EW-H-1	40	240	4500	81X-40D

77933

MONTEREY FACILITY WWTF
OPERATIONS BUILDING

PAUL MICHAEL
MECHANICAL DESIGN
ORANGE PARK, FLORIDA

GARY L. McDONALD, ARCHITECT

12237 BEAVER RUN DRIVE
JACKSONVILLE, FLORIDA 32225
904 645-19407

UNITED WATER FLORIDA

MONTEREY WASTEWATER TREATMENT
FACILITY OPERATIONS BUILDING

JACKSONVILLE, FLORIDA

DCAD FILE 19A02

NO: 1 DATE: 12-12-96 REVISION: OWNERS COMMENTS

ISSUED FOR BID:
ISSUED FOR PERMIT:
ISSUED FOR CONSTRUCTION:

PROJECT NO.: 9604B

DATE: 11-18-96

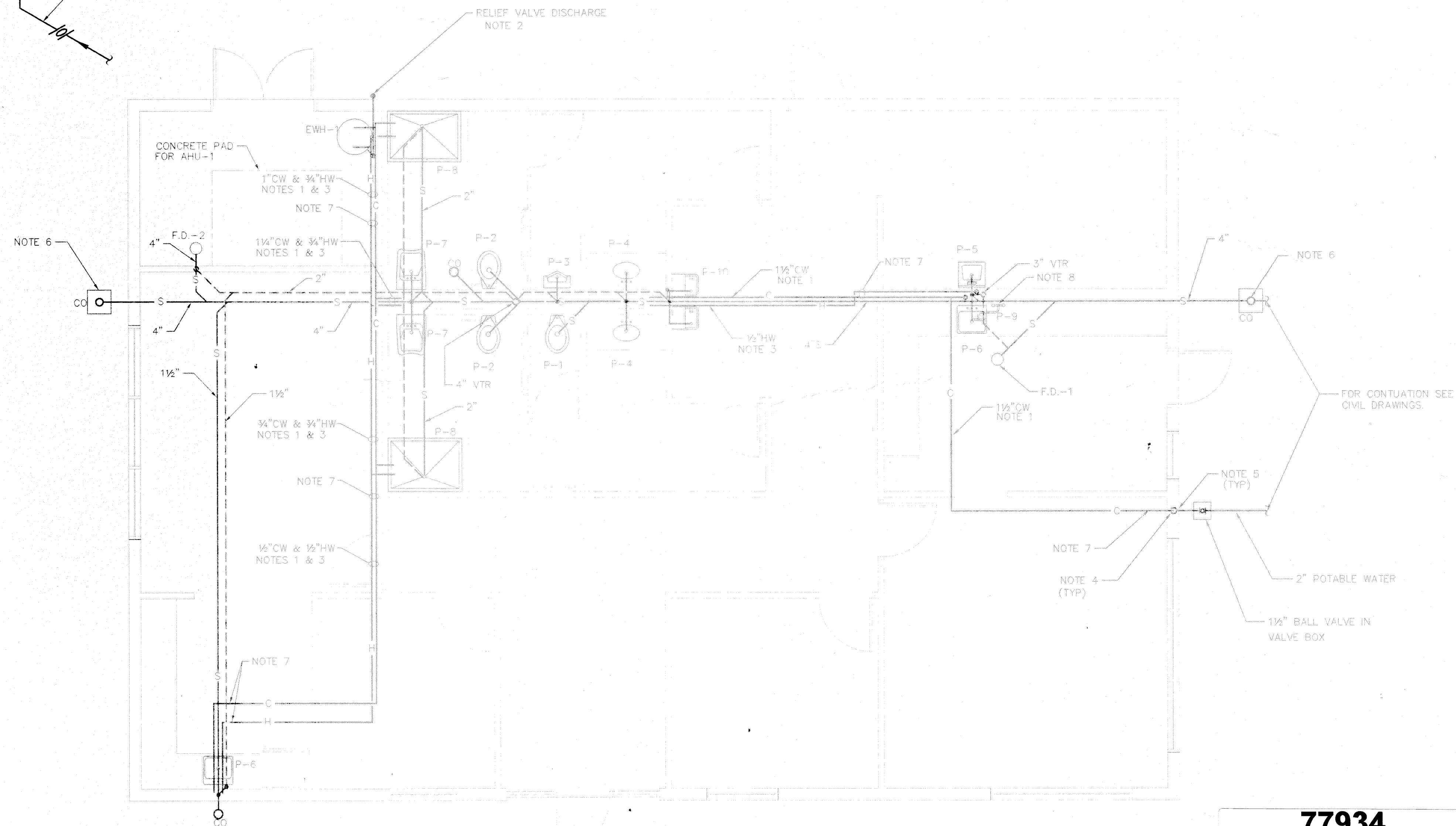
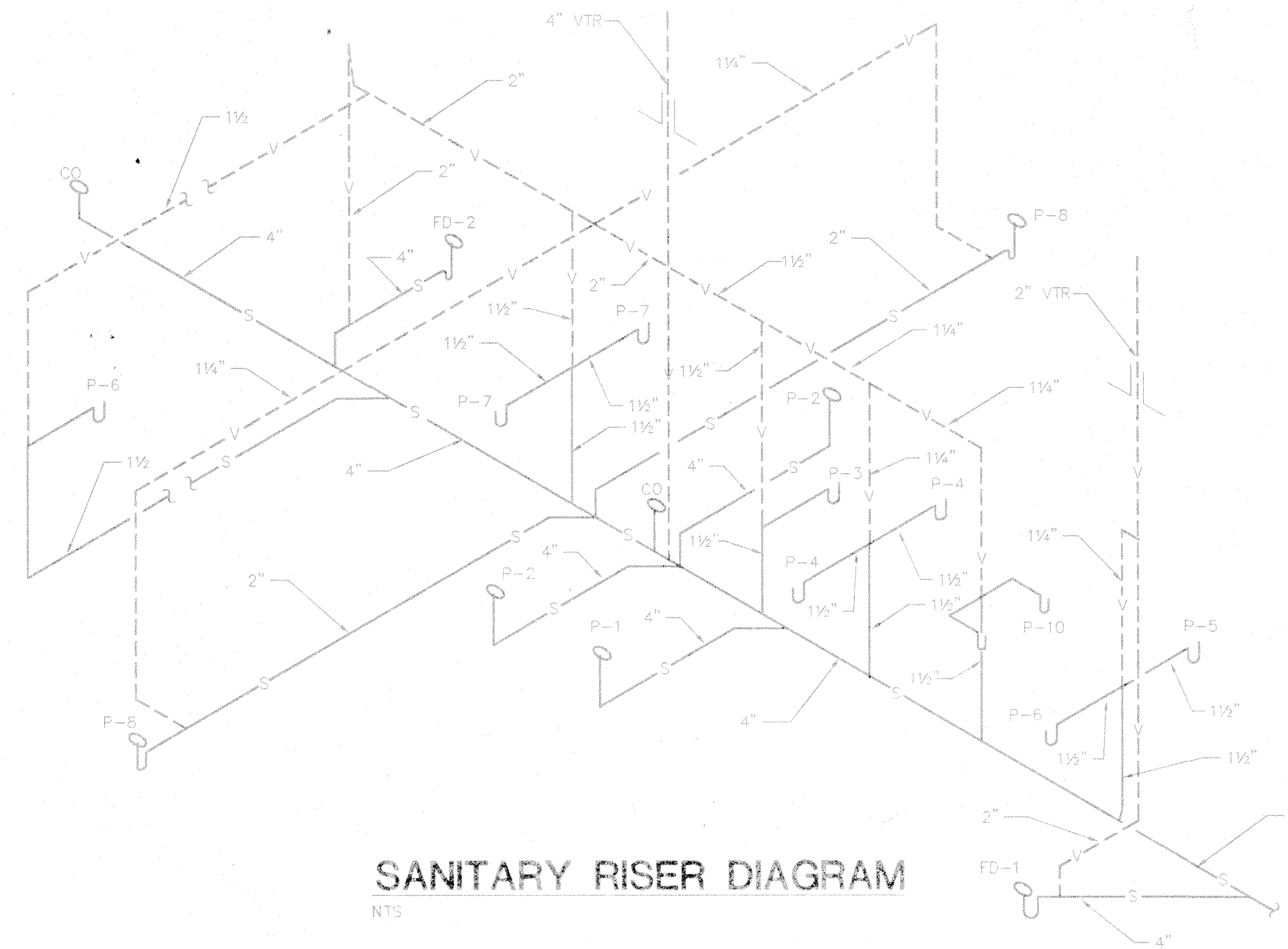
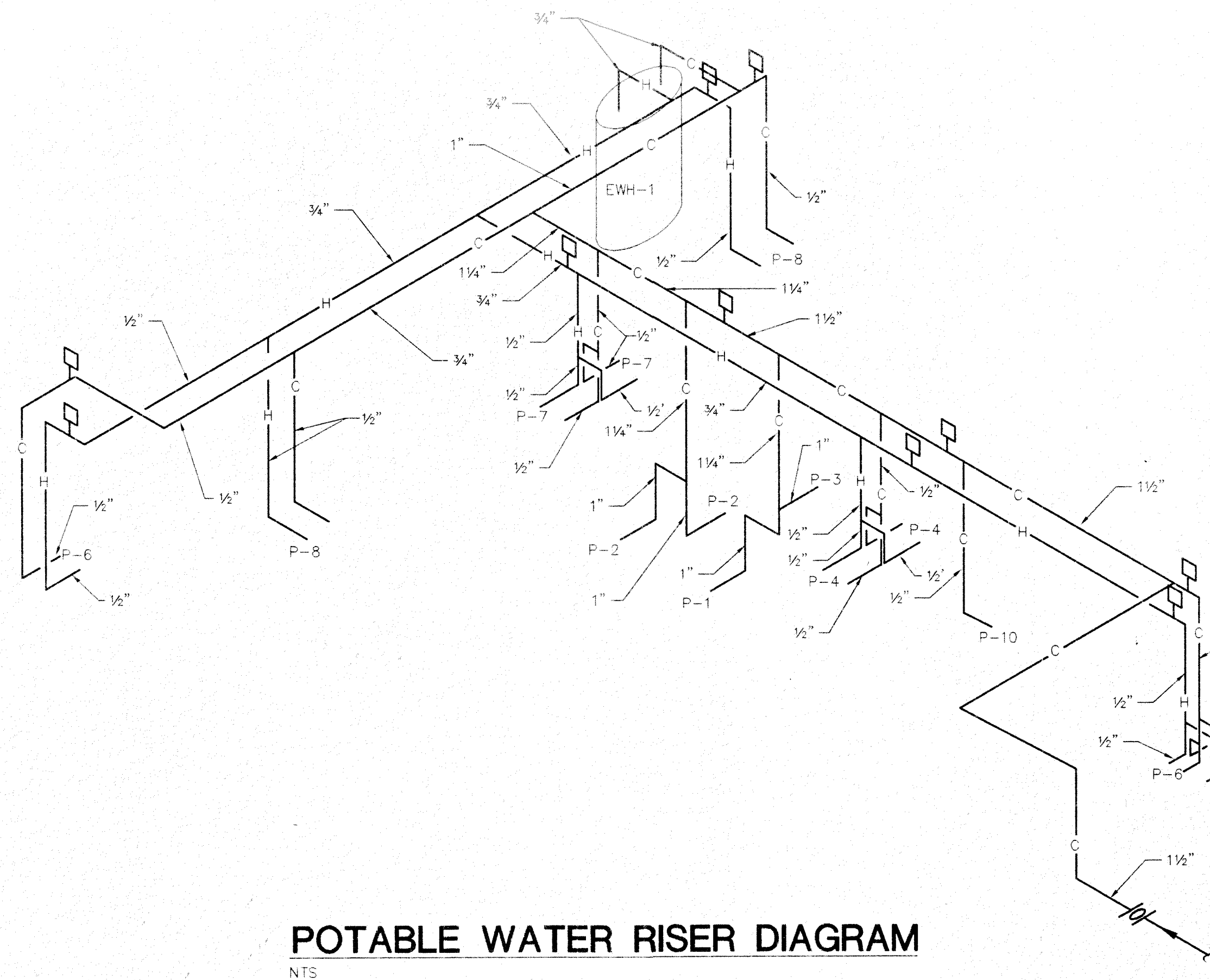
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ELECTRIC WATER HEATER DETAIL

NOT TO SCALE

P.1



GARY L. McDONALD, ARCHITECT

12237 BEAVER RUN DRIVE
JACKSONVILLE, FLORIDA 32225
904 646-9407

UNITED WATER FLORIDA

MONTEREY WASTEWATER TREATMENT
FACILITY OPERATIONS BUILDING

JACKSONVILLE, FLORIDA

DCAD FILE: 19A02

NO.	DATE	REVISION
1	12-12-96	OWNERS COMMENTS

ISSUED FOR BID:
ISSUED FOR PERMIT:
ISSUED FOR CONSTRUCTION:

PROJECT NO.: 9804B

DATE: 11-18-96

DRAWN BY: PWM

CHECKED BY: PWM

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MONTEREY FACILITY WWTF
OPERATIONS BUILDING

PAUL MICHAEL
MECHANICAL DESIGN
ORANGE PARK, FLORIDA

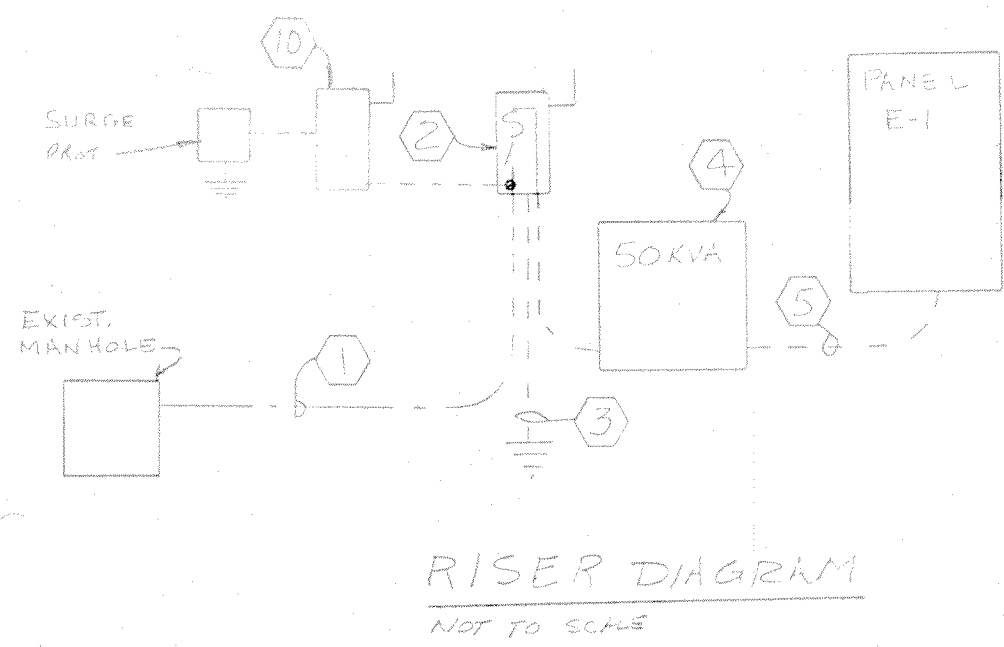
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LEGEND
CONDUIT AND WIRING, ABOVE CEILING OR CONCEALED IN WALL, MARKS INDICATE NUMBER OF CONDUCTORS (GROUND WIRE NOT COUNTED, NO MARKS = 2 CONDUCTORS)

- CONDUIT AND WIRING, EXPOSED
- CONDUIT AND WIRING, BELOW GRADE
- HOMERUN TO PANEL
- FLEXIBLE METALLIC CONDUIT AND WIRING
- LIGHTING FIXTURE, 2 X 4 LAY-IN, MARK 1
- LIGHTING FIXTURE MARK 1 WITH EMERGENCY BALLAST
- LIGHTING FIXTURE, WALL MOUNTED, MARK 4
- EXIT SIGN, NOT SWITCHED
- WALL SWITCH
- RECEPTACLE, 120 V. 15 A. DUPLEX
- ELECTRIC PANEL, 120/208 V., 4 WIRE
- TELEPHONE TERMINAL BOARD
- TELEPHONE/DATA OUTLET
- EQUIPMENT CONNECTION
- MOTOR CONNECTION
- FUSED DISCONNECT SWITCH
- WALL MOUNTED OCCUPANCY SENSOR AT SWITCH LOCATION
- CEILING MOUNTED OCCUPANCY SENSOR
- REFERENCE TO NOTE 3
- AIR HANDLING UNIT
- CONDUIT
- CONDENSING UNIT
- EXHAUST FAN
- ELECTRIC WATER COOLER
- GROUND
- WATER HEATER
- WEATHER PROOF

- NOTES
1. INSTALL 3 #4 & 1#8G, 1 1/2" PVC SCHEDULE 40 FROM MANHOLE ADJACENT TO MECHANICAL ROOM TO THE MAIN DISCONNECT SWITCH. SPLICE INTO EXISTING 480 VOLT FEEDER IN MANHOLE USING BUTT COMPRESSION SPLICES AND HEAT SHRINK TUBING. CONTINUE FEEDER FROM DISCONNECT SWITCH TO TRANSFORMER.
2. PROVIDE FUSED DISCONNECT SWITCH FOR SERVICE ENTRANCE. PROVIDE 100 A. SWITCH WITH 3- 75 AMP. FUSES.
3. PROVIDE GROUNDING PER N.E.C.
4. PROVIDE 3 PHASE 50 KVA 480:208 VOLT DRY TYPE TRANSFORMER.
5. PROVIDE 4 #3/0 & 1 #6G, 2"C. FROM TRANSFORMER TO PANEL E-1.
6. SIZE FUSED DISCONNECTS FOR EQUIPMENT BASED ON MANUFACTURERS RECOMMENDATIONS.
7. CIRCUITS 1 AND 3 TO PASS THROUGH LIGHTING CONTACTOR. CONTACTOR SHALL BE CONTROLLED BY PHOTOELECTRIC CELL MOUNTED ON THE FACIA AT MECHANICAL ROOM. MOUNT CONTACTOR IN MECHANICAL ROOM.
8. PROVIDE 3/4" PLYWOOD TELEPHONE BACKBOARD. PROVIDE 2" PVC SCHEDULE 40 CONDUIT TO SOURCE OF TELEPHONE CIRCUITS.
9. FIXTURES SHOWN WITH DIAGONAL LINE TO HAVE EMERGENCY BALLAST WITH BATTERY BACKUP. PROVIDE UNSWITCHED HOT LEG TO EMERGENCY UNIT FOR CHARGING.
10. TAP INCOMING FEEDER AT THE LINE SIDE OF THE MAIN FUSED DISCONNECT SWITCH FOR SURGE SUPPRESSOR. RUN 4 #10 AND 1 #10 G, 3/4" CONDUIT TO 30 AMP FUSED DISCONNECT SWITCH AND FROM DISCONNECT SWITCH TO SURGE SUPPRESSOR. INSTALL AND GROUND SUPPRESSOR PER MANUFACTURER'S DIRECTIONS.

MARK	DESCRIPTION
1	2 X 4 LAY-IN FLUORESCENT FIXTURE, 2 LAMP, 120 V, ELECTRONIC BALLAST, T8 LAMPS, LITHONIA 2SPG232-A12-125-120, OR EQUAL.
2	NOT USED.
3	CHAIN HUNG, INDUSTRIAL FLUORESCENT FIXTURE, T8 LAMPS, 120 V, ELECTRONIC BALLAST, LITHONIA EJA-232-120-ELECTRONIC-HC, OR EQUAL.
4	WALL BRACKET, 48", FLUORESCENT FIXTURE, WHITE HOUSING, T8 LAMPS 120 V, ELECTRONIC BALLAST, LITHONIA 11884-232-120-GE8, OR EQUAL
5	DOWNLIGHT, INCANDESCENT, 150 W A21 LAMP, FLAT FRESNEL LENS, LOW PROFILE, UL DAMP LABEL. 120 V, 9" NOMINAL OPENING, GOTHAM/LITHONIA LGZ-9RW-PFL OR EQUAL.
X	EXIT SIGN, ELECTROLUMINESCENT, STENCIL FACE, WHITE HOUSING, RED LETTERS, 120 V, NI-CAD BACK UP BATTERY, UNIVERSAL MOUNTING, SINGLE OR DOUBLE FACE AS SHOWN, LITHONIA ELE-S-W-1-R-120-ELN, OR EQUAL.



PANEL E1

120/208 V. 3 PHASE, 4 WIRE

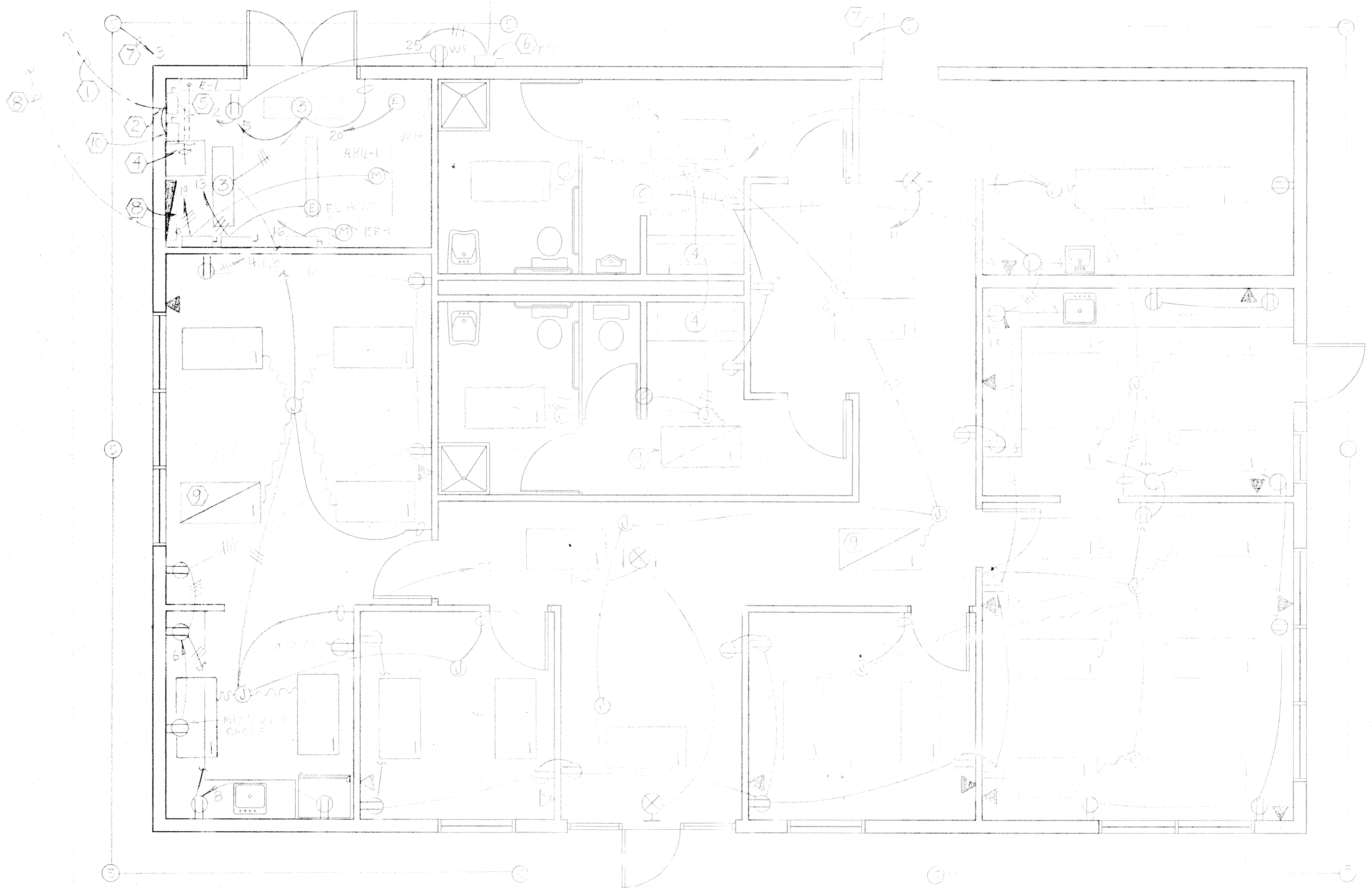
CKT.	POLES	TRIP	WIRE	GRND.	COND.	SPACE
1	1	20	#12	#12	12	OUTSIDE DOWN LITS
3	1	20	#12	#12	12	OUTSIDE DOWN LITS
5	1	20	#12	#12	12	LTO MCH BRK OFFICE
7	1	20	#12	#12	14	LTO TOL LIT HALL
9	1	20				LTO MUD COLL WORK OFFICE
11	1	20	#12	#12	12	EXIT LIGHTS
13	3	60	#10	#10	34	EL HEAT
19	3	20	#12	#12	34	AHU-1
25	3	60	#10	#10	34	CU-1
31	1					SPACE ONLY
33	1					SPACE ONLY
35	1					SPACE ONLY
37	1					SPACE ONLY
39	1					SPACE ONLY
41	1					SPACE ONLY

ALC# 10000 A SYM-B 208 V
175 A MAIN BREAKER

CKT.	POLES	TRIP	WIRE	GRND.	COND.	SPACE
2	1	20	#12	#12	12	REC OAS MCH ROOM
4	1	20				REC BREAK ROOM
6	1	20	#12	#12	34	REC MR ROWAVE
8	1	20				REC WATER
10	1	20				REC OFFICE HALL WORK
12	1	20	#12	#12	34	REC COLLECTIONS MTD. TOL
14	1	20				REC WORK OFFICE
16	1	20	#12	#12	12	EXHAUST FAN
18	2	30	#10	#12	34	WATER HTR
22	1	20	#12	#12	12	COVER
24	1	20				SPARE
26	1					SPACE ONLY
28	1					SPACE ONLY
30	1					SPACE ONLY
32	1					SPACE ONLY
34	1					SPACE ONLY
36	1					SPACE ONLY
38	1					SPACE ONLY
40	1					SPACE ONLY
42	1					SPACE ONLY

NOTES

1. CRO (1) IS AND SHALL PASS THRU THE LIGHTING CONTACTOR
2. CRO (1) IS AND USUALLY BE A GROUND FAULT CRO (1) BREAKER



FLOOR PLAN
SCALE: 1/4" = 1'-0"

GARY L. McDONALD, ARCHITECT
12237 BEAVER RUN DRIVE
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UNITED WATER FLORIDA
MONTEREY WASTEWATER TREATMENT
FACILITY OPERATIONS BUILDING
JACKSONVILLE, FLORIDA

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904 268-9237

ELECTRICAL PLAN

DCAD FILE: 19A02

NO.	DATE	REVISION

ISSUED FOR BID:
ISSUED FOR PERMIT:
ISSUED FOR CONSTRUCTION:

PROJECT NO.:
DATE:
DRAWN BY:
CHECKED BY:

77935
MONTEREY FACILITY WWTF
OPERATIONS BUILDING

E.1