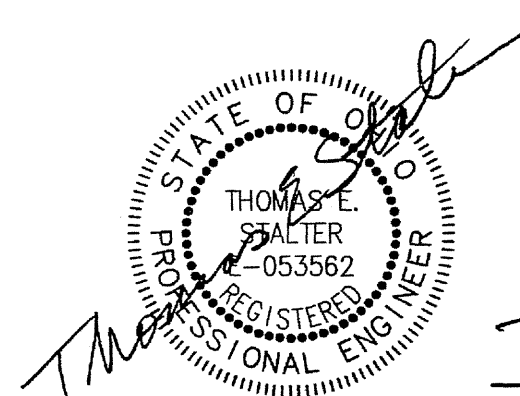
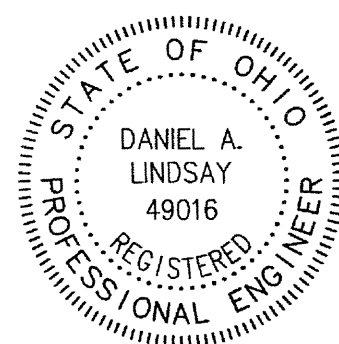


CONTRACT A - CSO RETENTION BASIN, PUMP STATION AND MAINTENANCE BUILDING CONTRACT B - CSO INTERCEPTOR SEWER VILLAGE OF OAK HARBOR OTTAWA COUNTY, OHIO 2007

DESIGN ENGINEERS



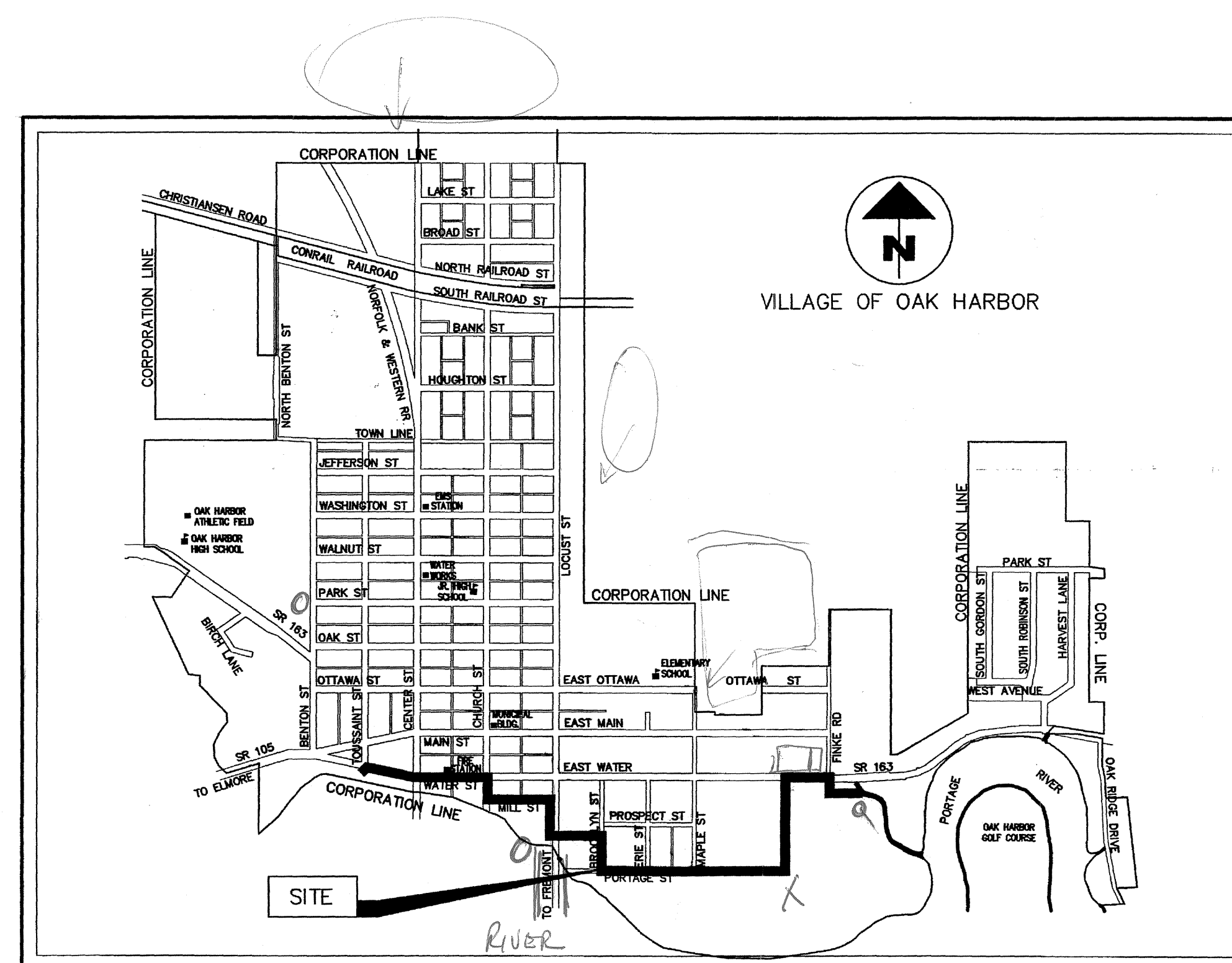
Thomas E. Stalter DATE 9/19/06
THOMAS E. STALTER, P.E. - 53562



Daniel A. Lindsay DATE 9/19/06
DANIEL A. LINDSAY, P.E. - 49016



Steven R. Wonderly DATE 9/19/2006
STEVEN ROBERT WONDERLY, P.E. - 45621



SITE MAP
NOT TO SCALE

APPROVALS

APPROVED: Thomas C. Laska DATE 09-08-2006
MAYOR - VILLAGE OF OAK HARBOR, OHIO

APPROVED: John Liske DATE 09-08-06
VILLAGE ADMINISTRATOR

POGGEMEYER DESIGN GROUP, INC.
ARCHITECTS
ENGINEERS
PLANNERS
1168 NORTH MAIN STREET
BOWLING GREEN, OHIO 43402
(419) 352-7537

SET NO.

44

ISSUANCE

DATE	DESCRIPTION

REVISION

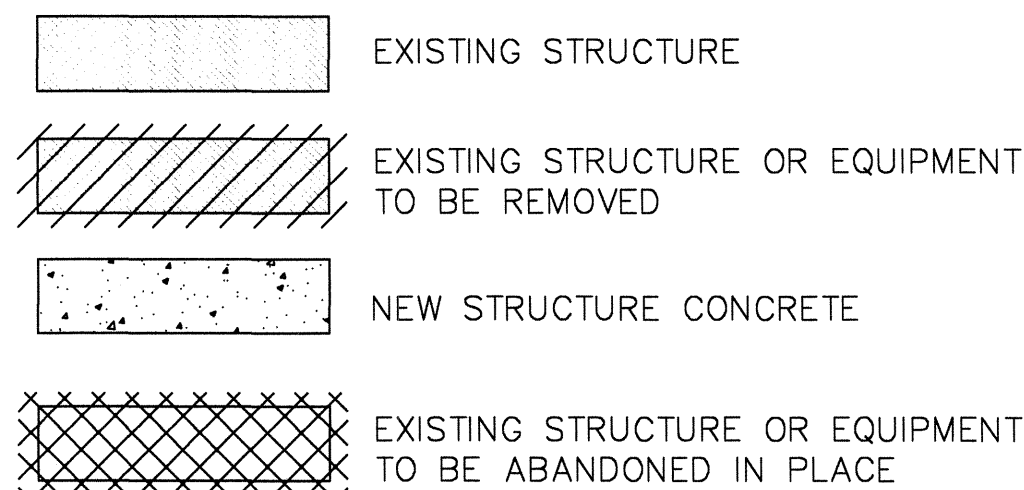
DATE	DESCRIPTION

**C. S. O.
IMPROVEMENT
VILLAGE OF
OAK HARBOR
OTTAWA COUNTY
OHIO**

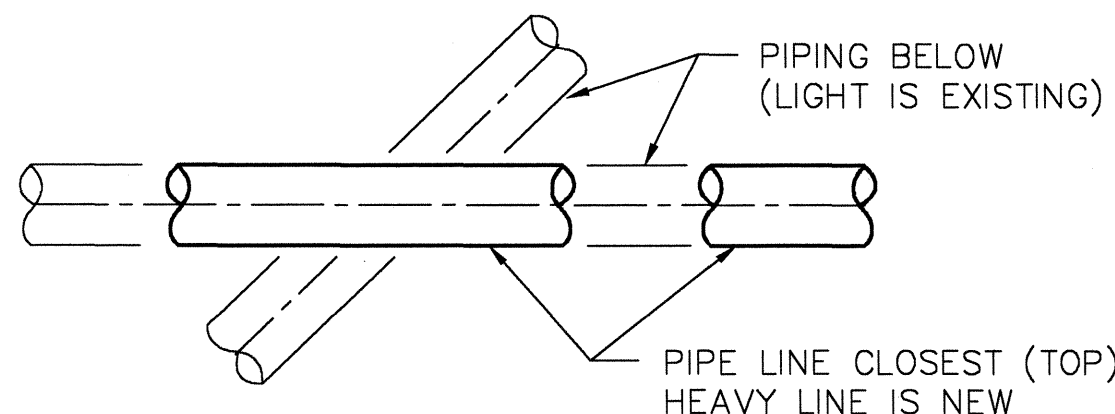
PDG NO. 1590-120

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BUILDING LEGEND



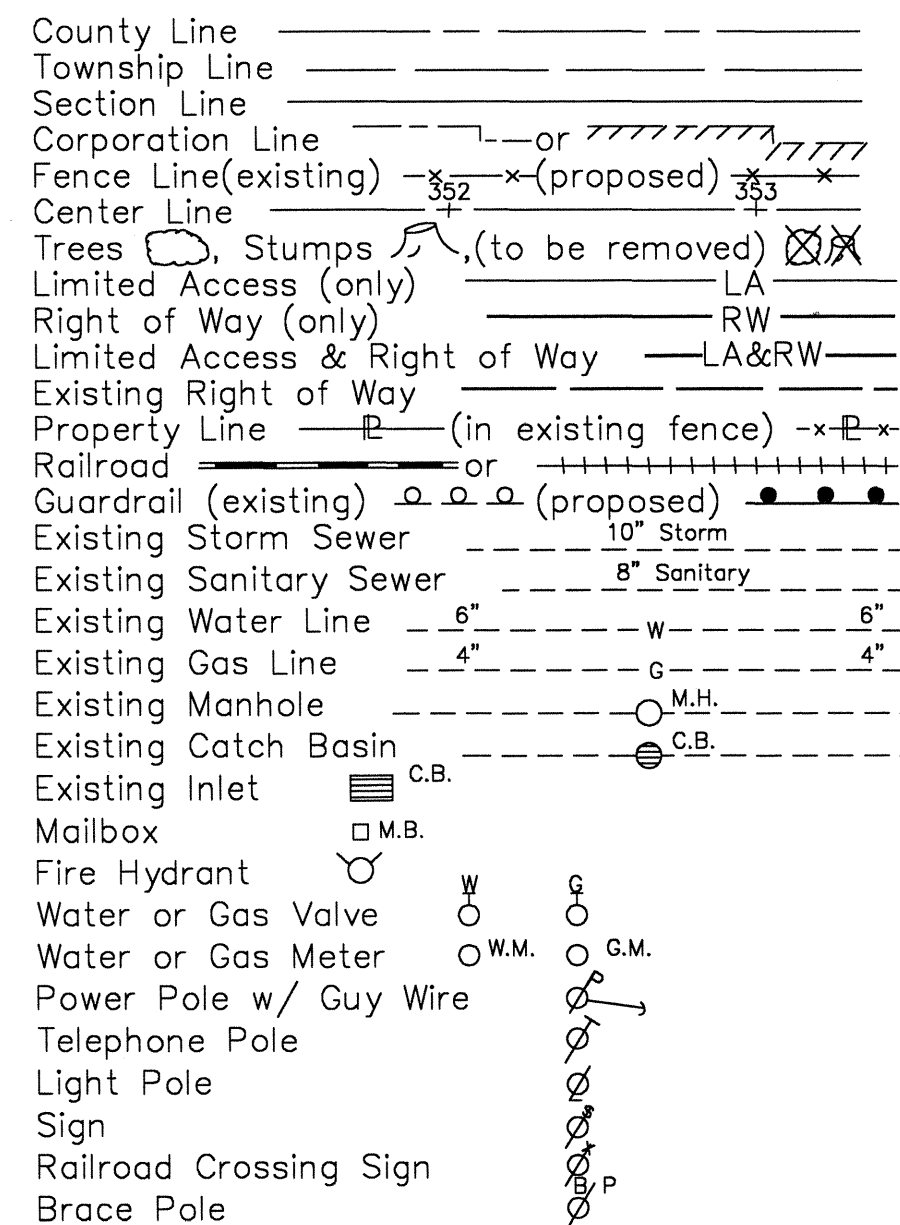
PIPING LEGEND



NEW PIPING AND EQUIPMENT UNDER CONTRACT LABEL "NEW" UNLESS OTHERWISE NOTED.

———— PIPING ABOVE GRADE (SOLID)
----- PIPING BELOW GRADE (HIDDEN)

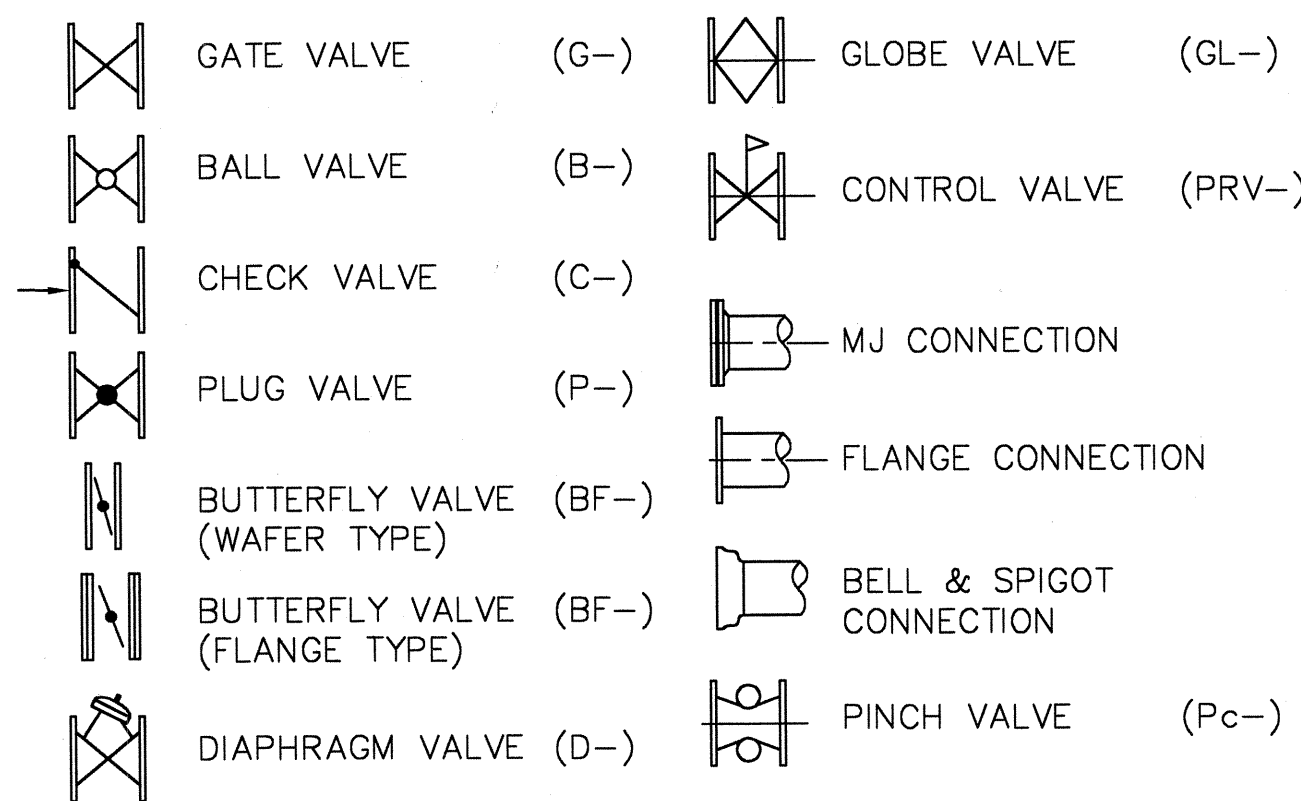
TOPOGRAPHY LEGEND



PROJECT GENERAL NOTES:

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, TYPE OF CONNECTIONS, MATERIALS, MECHANICAL AND ELECTRICAL INTERFACING AND ALL UTILITIES IN THE AREA BY MEANS OF PROBING, EXCAVATING OR OTHER ACCURATE METHODS PRIOR TO COMMENCING CONSTRUCTION. DRAWINGS ARE NOT TO GUARANTEED TO BE ACCURATE. CONTRACTOR TO SHORE OR SUPPORT UTILITIES OR STRUCTURES AS REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER. COST FOR LOCATING UTILITIES SHALL BE INCLUDED IN THE PROJECT ORIGINAL BID PRICE.
- ALL PIPING SHALL BE SUPPORTED PER SPECIFICATIONS. GENERAL CONTRACTOR SHALL DETAIL, FABRICATE AND INSTALL PIPE SUPPORTS AS REQUIRED.
- DUCTILE IRON PIPE (PRESSURE LINE) BELOW SLABS SHALL HAVE RETAINER GLANDS UNLESS OTHERWISE NOTED.
- CONTRACTOR TO COORDINATE AND APPLY STANDARD MISCELLANEOUS DETAILS AS REQUIRED.
- ALL PIPE INSTALLATIONS THRU EXISTING & PRE-CAST STRUCTURES SHALL BE DONE BY USING A LINK-SEAL ASSEMBLY OR EQUAL AND WITH S.S.T. HARDWARE. IN SURFACES EXPOSED TO WATER CONTRACTOR TO GROUT SMOOTH W/ NONE-SHRINK GROUT CAVITY AT L-SEAL.
- PROPOSED WORK UNDER THIS CONTRACT IS LABELED "NEW" UNLESS NOTED OTHERWISE. WHERE THERE IS A COMBINATION OF PROPOSED AND EXISTING CONDITIONS WORK IS LABEL "NEW" AND EXISTING NOT LABEL. IN PROPOSED BUILDING ALL EQUIPMENT IS "NEW" AND PROPOSED WORK IS NOT LABEL "NEW".
- ALL MATERIALS IN CONTACT WITH POTABLE WATER SHALL MEET THE REQUIREMENTS OF NSF STANDARD 60 AND 61.

VALVE SYMBOL LEGEND



- NOTE 1.) VALVE DESIGNATION AND TYPE APPLIES TO SCALE DRAWINGS ONLY. SCHEMATIC DIAGRAMS DO NOT REPRESENT ALL TYPES.
- 2.) PROVIDE GEARED AND HANDWHEEL ACTUATOR FOR VALVES 6" AND LARGER UNLESS OTHERWISE NOTED. PROVIDE CHAIN WHEEL ON VALVES HIGHER THAN SIX (6) FEET.

MATERIAL

BSP	BLACK STEEL PIPE
CMP	CORRUGATED METAL PIPE
CPP	CONCRETE PRESSURE PIPE (PRESTRESSED)
CPVC	CHLORINATED POLYVINYL CHLORIDE PIPE
Cu	COPPER TUBING OR PIPING
DI	DUCTILE IRON PIPE
GS	GALVANIZED STEEL PIPE
CP	CONCRETE PIPE (PLAIN)
PVC	POLYVINYL CHLORIDE PIPE
ST	STEEL PIPE
SST	STAINLESS STEEL PIPE
PE	POLYETHYLENE
FRP	FIBERGLASS REINFORCED POLYESTER

PIPING ABBREVIATIONS

SERVICE

NG	NATURAL GAS
CW	CITY WATER
HW	HOT CITY WATER
NPW	PLANT WATER (NON-DRINKABLE)
PW	POTABLE WATER
CA	COMPRESSED AIR
SS	SANITARY SEWER
RW	RAW WATER
DW	DIGESTED WATER
SL	SLUDGE
PE	PLANT EFFLUENT

VALVE SCHEDULE OPERATOR DESIGNATION

OL	LEVER AND WEIGHT OR SPRING	C	CHAIN
FB	FLOOR BOX	L	LEVER
TW	TEE WRENCH	VB	VALVE BOX
G	GEAR	BG	BEVEL GEAR
HW	HANDWHEEL	EB	EXTENDED BONNET
MO	MOTOR OPERATED	PN	PNEUMATIC OPERATED

- INSTALLATION NOTES:
- VALVES INSIDE BUILDINGS SHALL BE OF FLANGE TYPE
 - VALVES UNDERGROUND INSTALLATION SHALL BE MECHANICAL JOINT UNLESS NOTED OTHERWISE
 - VALVES SHALL BE INSTALLED WITH OPERATOR ON THE VERTICAL OR HORIZONTAL POSITION. CONTRACTOR TO CONSULT WITH THE ENGINEER FOR ANY OTHER INSTALLATION ORIENTATION.
 - ALL CHECK VALVES SHALL BE INSTALLED ON THE HORIZONTAL OR VERTICAL POSITION UNLESS OTHERWISE NOTED.

UNDERGROUND UTILITIES

TWO WORKING DAYS
BEFORE YOU DIG
Call 800-362-2764 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

PUMP STATION STRUCTURE

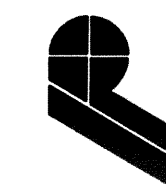
OCCUPANCY GROUP:	F-2
CONSTRUCTION TYPE:	28
SQUARE FOOTAGE	
ALLOWABLE (RESTRICTIONS BASED ON USE GROUP F-2)	
BASE (TABLE 503)	23,000 SQ.FT.
OPEN PERIMETER	8,455 SQ.FT.
FIRE SUPPRESSION	0 SQ.FT.
TOTAL ALLOWABLE	23,455 SQ.FT.
ACTUAL PROPOSED:	
NEW CONSTRUCTION	870 SQ.FT.
EXISTING	0 SQ.FT.
TOTAL PROPOSED	870 SQ.FT.
OCCUPANT LOAD:	N/A-NON-OCCUPIED
STRUCTURAL LOADS:	SEE STRUCTURAL DRAWING

MAINTENANCE BUILDING

OCCUPANCY GROUP:	S-1
CONSTRUCTION TYPE:	5B
SQUARE FOOTAGE	
ALLOWABLE (RESTRICTIONS BASED ON USE GROUP S-1)	
BASE (TABLE 503)	9,000
OPEN PERIMETER	6,750
FIRE SUPPRESSION	0
TOTAL ALLOWABLE	15,750
ACTUAL PROPOSED:	
NEW CONSTRUCTION	6,000
EXISTING	0
TOTAL PROPOSED	6,000
OCCUPANT LOAD:	6,000 SF @ 300 SF/ OCC = OCCUPANTS
STRUCTURAL LOADS:	SEE STRUCTURAL DRAWING

INDEX OF DRAWINGS

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4.	EQUALIZATION BASIN SITE PLAN
5.	MAINTENANCE BUILDING SITE PLAN
6.	DRIVEWAY IMPROVEMENT PLAN
7.	PUMP STATION FOUNDATION PLAN
8.	PUMP STATION TOP PLAN AT ELEVATIONS 592.25
9.	PUMP STATION — SECTION 1 AND DETAILS
10.	PUMP STATION — SECTIONS 2 AND 3
11.	PUMP STATION — SECTIONS 4, 5 AND DETAILS
12.	EQUALIZATION BASIN MIXER LOCATION PLAN
13.	EQUALIZATION BASIN SECTIONS AND DETAILS
14.	MAINTENANCE BUILDING EXTERIOR ELEVATIONS
15.	MAINTENANCE BUILDING FOUNDATION PLAN SECTION AND DETAILS
16.	MAINTENANCE BUILDING FLOOR PLAN SECTION AND SCHEDULES
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18.	FINAL SETTLING TANK RENOVATION PLAN SECTION AND DETAILS
19.	STRUCTURAL DETAILS AND GENERAL NOTES
20.	STRUCTURAL DETAILS
21.	TRENCH AND PIPING DETAILS
M0.1	MAINTENANCE BUILDING — MECHANICAL NOTES, SCHEDULES, AND SCHEMATICS
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M2.1	MAINTENANCE BUILDING — PIPING SCHEMATICS
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E5	PUMP STATION ELEVATION AND DETAILS
E6	MAINTENANCE BUILDING SCHEDULES AND DIAGRAMS
E7	MAINTENANCE BUILDING ELECTRICAL LIGHTING PLAN
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SWP3-1	EXISTING DRAINAGE AREAS SITE PLAN
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4.	WATER STREET PLAN & PROFILE 13+00-21+00
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8.	LOCUST STREET PLAN & PROFILE 12+00-19+00
9.	EASEMENT PLAN & PROFILE 9+00-15+00
10.	BROOKLYN STREET PLAN & PROFILE 9+00-15+00
11.	PORTAGE STREET PLAN & PROFILE 19+00-30+00
12.	PORTAGE STREET PLAN & PROFILE 30+00-39+00
13.	VILLAGE PROPERTY PLAN & PROFILE 9+00-20+00
14.	WATER STREET PLAN & PROFILE 54+00-64+00
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16.	C.S.O. DETAILS
17.	SEWER DETAILS
18.	WATERLINE DETAILS
SWP3-1A	SWPPP PLAN FOR INTERCEPTOR SEWER
SWP-2A	SWPPP FOR INTERCEPTOR SEWER



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CSO IMPROVEMENTS
E.Q. BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO

LEGENDS
AND
INDEX

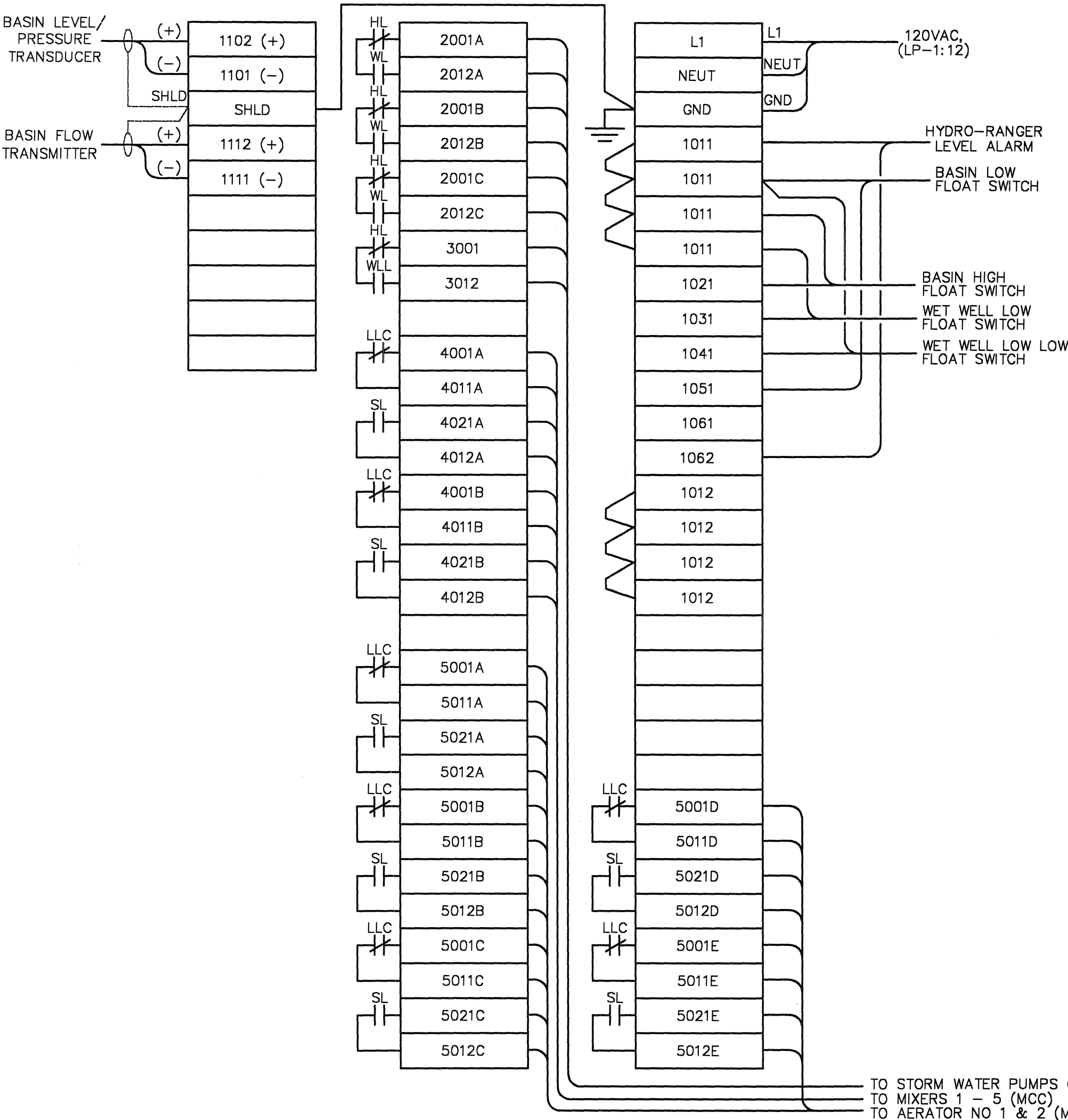
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OF
32
JOB NUMBER
1590-120

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FRONT PANEL LAYOUT

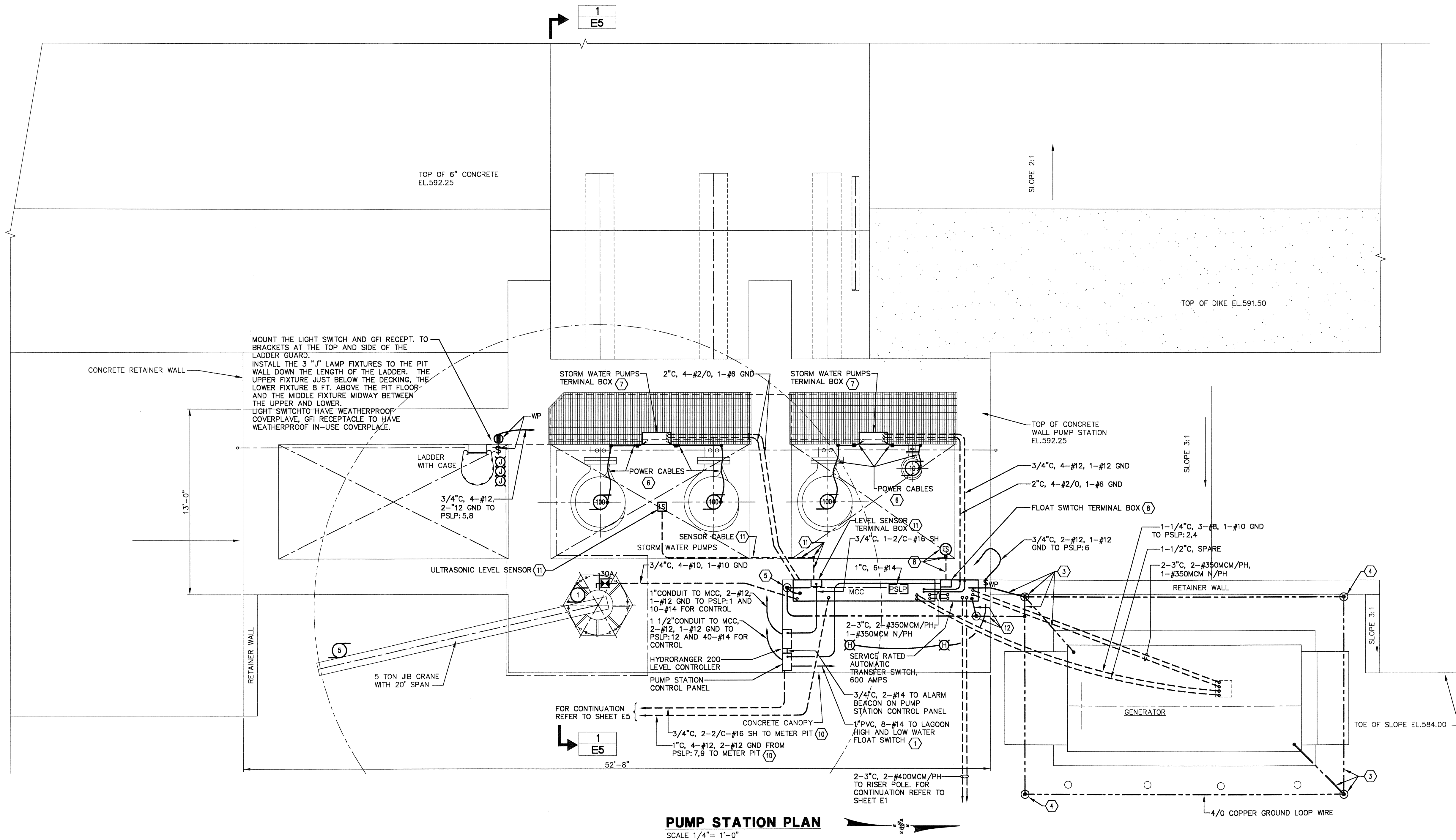
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- NOTES:**
- REFER TO SHEET E1 FOR ELECTRICAL SITE PLAN.
 - REFER TO SHEET E2 FOR PUMP STATION CONTROL PANEL SCHEMATIC.
 - 3/4" x 10' COPPERWELD GROUND ROD WITH EXOTHERMIC TYPE WELDED CONNECTION TO #4/0 BARE COPPER GROUND LOOP WIRE AND TO #2/0 BARE COPPER GROUND WIRE WITH CONNECTION AS REQUIRED TO GENERATOR GROUND PADS.
 - 3/4" x 10' COPPERWELD GROUND ROD WITH EXOTHERMIC TYPE WELDED CONNECTION TO #4/0 BARE COPPER GROUND LOOP WIRE.
 - 3/4" x 10' COPPERWELD GROUND ROD WITH EXOTHERMIC TYPE WELDED CONNECTION TO #4/0 BARE COPPER GROUND LOOP WIRE AND TO #2/0 BARE COPPER GROUND WIRE WITH CONNECTION AS REQUIRED TO MCC GROUND PADS.
 - ELECTRICAL CONTRACTOR TO INSTALL AND SUPPORT POWER CABLES, FURNISHED BY EQUIPMENT SUPPLIER PER MANUFACTURERS REQUIREMENTS. ROUTE INTO TERMINAL BOX. PROVIDE RGS CONDUIT SIZED AS REQUIRED EXTENDING FROM TERMINAL BOX TO BELOW GRATING LEVEL WITH CONDUIT SEAL AND BUSHING.
 - ELECTRICAL CONTRACTOR TO PROVIDE STAINLESS STEEL UNISTRUT TYPE SUPPORT SYSTEM WITH HARDWARE AS REQUIRED TO SECURELY MOUNT TERMINAL BOXES TO HANDRAIL. COORDINATE TERMINAL BOX MOUNTING HEIGHT AND LOCATION WITH OWNER. REFER TO SHEET E7 FOR PUMP STATION ELEVATION AND TERMINAL BOX DETAILS.
 - TWO FLOAT SWITCHES AND CABLE FURNISHED BY EQUIPMENT SUPPLIER, INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE SUPPORT FOR CABLE AND INSTALL 1" CONDUIT SLEEVE THRU COMPLETE WITH BUSHING AND CONDUIT SEAL AS REQUIRED TO TERMINAL BOX. NEMA 4X STAINLESS STEEL TERMINAL BOX FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AND SIZED AS REQUIRED.

- NOTES CONTINUED:**
- REFER TO SHEET E3 FOR SINGLE LINE AND WIRING DIAGRAMS, AS WELL AS MCC-PUMP STATION PANELBOARD AND LIGHTING SCHEDULES.
 - REFER TO SHEET E5 FOR PUMP STATION ELEVATION AND DETAILS.
 - LEVEL SENSOR AND CABLE FURNISHED BY EQUIPMENT SUPPLIER, INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE SUPPORT FOR CABLE AND INSTALL 1" CONDUIT SLEEVE THRU COMPLETE WITH BUSHING AND CONDUIT SEAL AS REQUIRED TO STAINLESS STEEL, NEMA 4X TERMINAL BOX. TERMINAL BOX FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AND SIZED AS REQUIRED.
 - 3/4" x 10' COPPERWELD GROUND ROD WITH EXOTHERMIC TYPE WELDED CONNECTION TO #4/0 BARE COPPER GROUND LOOP WIRE AND TO #2/0 BARE COPPER GROUND WIRE WITH CONNECTION AS REQUIRED TO AUTOMATIC TRANSFER SWITCH GROUND PADS.

**C.S.O. IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

**PUMP STATION
ELECTRICAL
PLAN**

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G.N.C.	D.L.K.
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**E4
OF
32**
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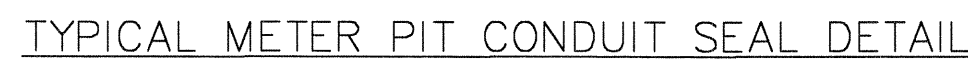
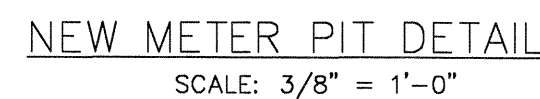


Diagram illustrating the installation of a float switch in a dike structure.

Key components and dimensions:

- Threaded Cap
- High and Low Water Float Switch Terminal Box (1)
- Sloped Concrete
- 18" Formed Top (Optional)
- 4" SCH. 40 GALV. STEEL POST, CONCRETE FILLED.
- TOP OF DIKE
- 1" PVC, 8-14 TO PUMP STATION LEVEL CONTROL PANEL. (3)
- 5'-0" MAX.
- 5'-0"
- 3'-0"
- 1" PVC, SENSOR CABLES TO HIGH AND LOW WATER FLOAT SWITCHES (2)

FLOAT SWITCH TERMINAL BOX MOUNTING DETAIL

SCALE: $3/8" = 1'-0"$



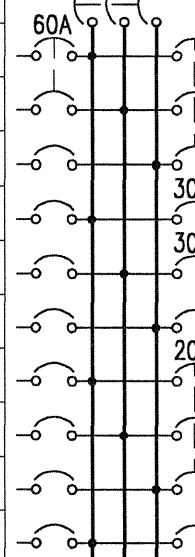
SCALE: $3/8" = 1'-0"$ 1 2 4 11 12



SECTION	1
SCALE: $1/4" = 1'-0"$	E4

JOB NUMBER
1590-120

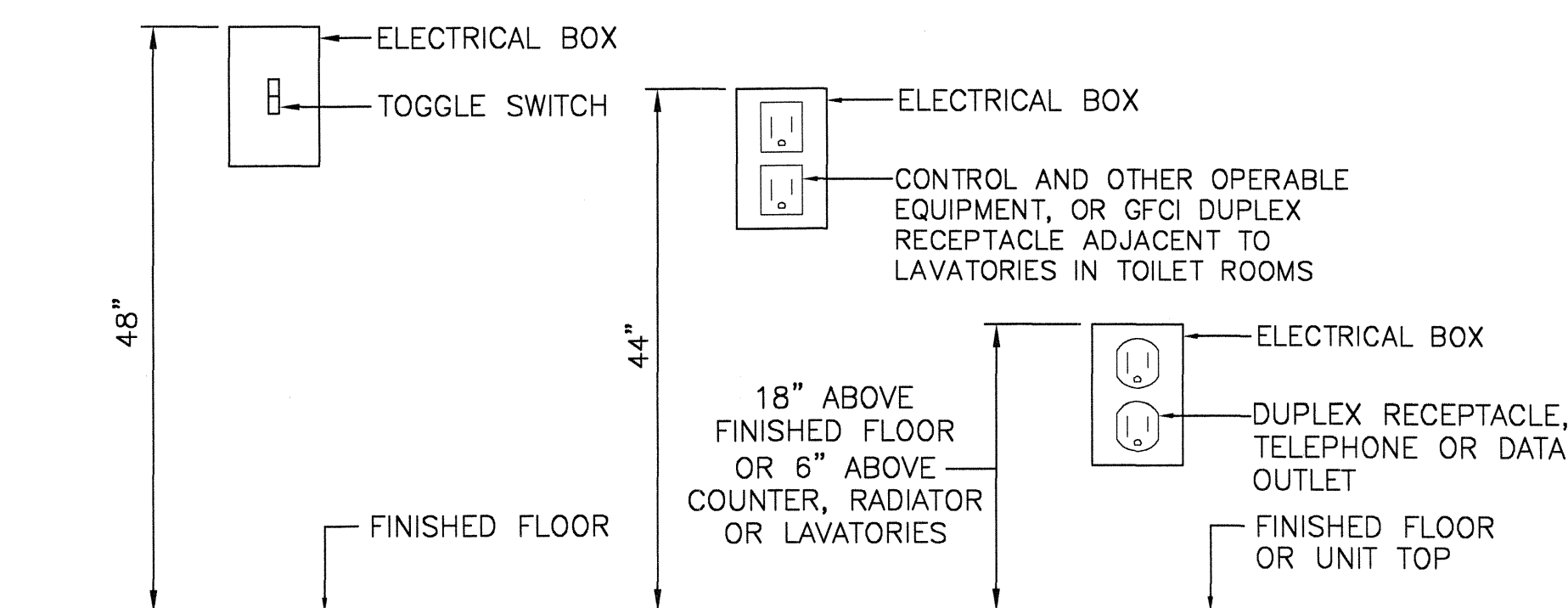
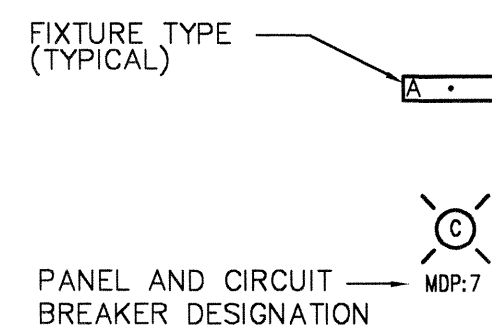
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PANELBOARD DESIGNATION <u>MDP</u>				100 AMPERE BUS		
LOCATION <u>SOUTHWEST CORNER OF BUILDING</u>				100 AMPERE MAIN BREAKER		
<u>480/277</u> VOLTS <u>3</u> PHASE <u>4</u> WIRE				10,000 AMPERE INTERRUPTING CAP		
<u>X</u> AC <u> </u> SOLID NEUTRAL				ALL BREAKERS 20 AMP UNLESS NOTED		
<u>X</u> SURFACE <u> </u> FLUSH MOUNTING				ENCLOSURE <u> </u>		
BKR POS	LOAD DESCRIPTION	KVA		KVA	LOAD DESCRIPTION	BKR POS
1	LIGHTING TRANSFORMER	7.2		1.21		2
3	FOR LP	7.2		1.21	HEATING/VENTILATING HV-1	4
5	LIGHTING - MAIN GARAGE BAY	1.75		1.21		6
7	LIGHTING - MAIN GARAGE BAY	1.75		3.68	OFFICE PT-1 UNIT	8
9	LIGHTING - MAIN GARAGE BAY	1.75		3.68	BRK RM PT-2 UNIT	10
11	EMERGENCY LIGHTING	.50			SPARE	12
13	SPARE			3.0		14
15	SPARE			3.0	AIR COMPRESSOR	16
17	SPARE			3.0		18
19	SPARE				SPARE	20
21						22
23						24
25						26
27						28
29						30
31						32
33						34
35						36
37						38
39						40
41						42
SUB TOTAL KVA		20.15	TVSS	19.99	SUB TOTAL KVA	
TOTAL KVA		40.14	TOTAL AMPERES		48.34	

PANELBOARD DESIGNATION LP			100 AMPERE BUS
LOCATION SOUTHWEST CORNER OF BUILDING			80 AMPERE MAIN BREAKER
120/240 VOLTS 1 PHASE 3 WIRE			10,000 AMPERE INTERRUPTING CAP.
X AC SOLID NEUTRAL			ALL BREAKERS 20 AMP UNLESS NOTED
X SURFACE FLUSH MOUNTING			ENCLOSURE
BKR POS.	LOAD DESCRIPTION	KVA	KVA LOAD DESCRIPTION
1	OFFICE & PLAN ROOM	.55	.72 OFFICE RECEPTACLES
3	REST ROOM LIGHTING	.75	.90 GARAGE NORTHEAST RECEPT.
5	LIGHTING - EXT. PERIMETER	.75	.90 BREAK ROOM RECEPTACLES
7	OVHD. DR. EAST WALL, NORTH	1.0	.72 GARAGE WEST RECEPTS.
9	OVHD. DR. E. WALL, MIDDLE N.	1.0	1.0 TELEPHONE BACKBOARD
11	OVHD. DR. E. WALL, MIDDLE S.	1.0	.90 GARAGE EAST RECEPTS.
13	OVHD. DR. EAST WALL, SOUTH	1.0	1.0 WATER COOLER
15	OVHD. DR. WEST WALL, NORTH	1.0	1.0 LIGHTING
17	OVHD. DR. WEST WALL, SOUTH	1.0	1.0 SPLITTING CONTACTORS
19	UTILITY ROOM EBB-1 HEATER	.50	2.0 ELECTRIC WATER HEATER
21		.50	2.0
23	RESTROOM EBB-2 HEATER	.50	1.5 EXHAUST FAN EF-1
25		.50	1.5
27			SPARE
29	SPARE		SPARE
31			
33			
35			
37			
39			
41			
SUB TOTAL KVA		10.05	14.14 SUB TOTAL KVA
TOTAL KVA		24.19	TOTAL AMPERES 100.79

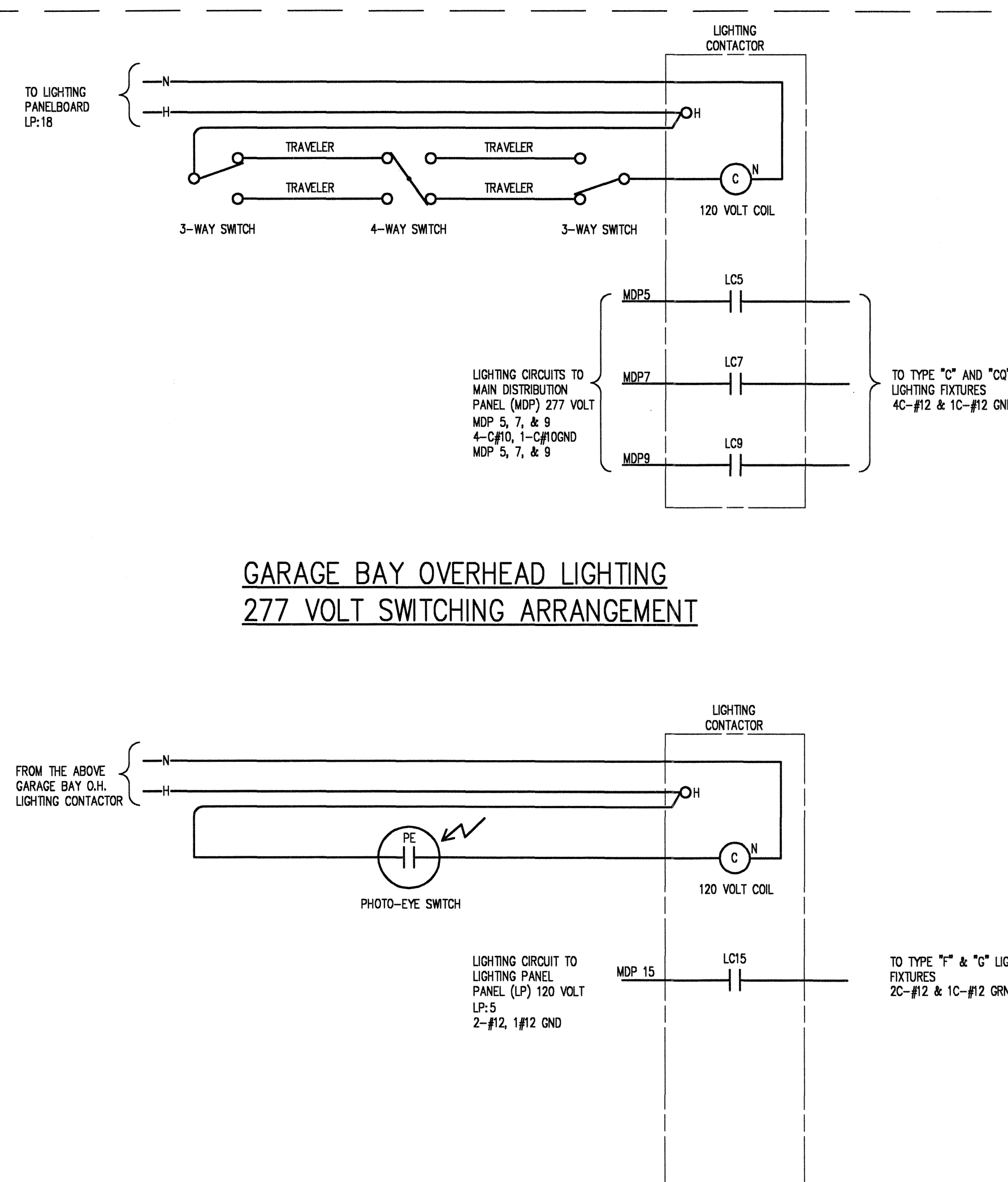
SYMBOL AND FIXTURE SCHEDULE

-  120/277 VOLT AC, 20A, INDUSTRIAL SPECIFICATION GRADE SINGLE POLE TOGGLE SWITCH. SIMILAR TO COOPER #2221B. PROVIDE COVERPLATE.
-  120/277 VOLT AC, 20A, INDUSTRIAL SPECIFICATION GRADE DOUBLE POLE TOGGLE SWITCH. SIMILAR TO COOPER #2222B. PROVIDE COVERPLATE.
-  120/277 VOLT AC, 20A, INDUSTRIAL SPECIFICATION GRADE 3-WAY TOGGLE SWITCH. SIMILAR TO COOPER #2223B. PROVIDE COVERPLATE.
-  120/277 VOLT AC, 20A, INDUSTRIAL SPECIFICATION GRADE 4-WAY TOGGLE SWITCH. SIMILAR TO COOPER #2224B. PROVIDE COVERPLATE.
-  125 VOLT AC, 20A, 3-WIRE, INDUSTRIAL SPECIFICATION GRADE GROUNDING TYPE DUPLEX RECEPTACLE. SIMILAR TO COPPER #5362B. PROVIDE COVER PLATE.
-  125 VOLT AC, 20A, 3-WIRE, COMMERCIAL GRADE GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE. SIMILAR TO COOPER #GF20B.
 WP = WEATHERPROOF IN-USE METALLIC COVERPLATE.
-  250 VOLT AC, 20 AMP, NEMA 620-R RECEPTACLE OR AS REQUIRED TO MATCH PACKAGE TERMINAL UNITS SUPPLIED. SIMILAR TO COOPER #5390B OR EQUAL BY HUBBELL
-  TELEPHONE OUTLET TO MATCH OWNERS REQUIREMENTS. PROVIDE COVERPLATE. MOUNT IN SINGLE GANG BOX WITH 3/4" CONDUIT EXTENDING UP TO ABOVE CEILING.
-  DATA OUTLET (CAT. 5) BOX TO MATCH OWNERS REQUIREMENTS. PROVIDE COVERPLATE. MOUNT IN SINGLE GANG BOX WITH 3/4" CONDUIT EXTENDING UP TO ABOVE CEILING.
-  COMBINATION VOICE/DATA OUTLET TO MATCH OWNERS REQUIREMENTS. PROVIDE COVERPLATE. MOUNT IN SINGLE GANG BOX WITH 3/4" CONDUIT EXTENDING UP TO ABOVE CEILING.
-  FLUORESCENT LIGHTING FIXTURE - LETTER INDICATES TYPE (SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION)
-  METAL HALIDE WALL, PENDANT OR HOOK MOUNTED FIXTURE - LETTER INDICATES TYPE
 NL = NON-SWITCHED NIGHT LIGHT
 (SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION)
-  COMBINATION EXIT/EMERGENCY LIGHTING FIXTURE (SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION)
-  SINGLE HEAD REMOTE MOUNTED EMERGENCY LIGHT (SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION)
-  DISCONNECT SWITCH
-  MOTOR, HORSE POWER AS INDICATED, FR = FRACTIONAL.
-  PHOTOELECTRIC CELL, 1000W HID BALLAST CAPACITY. SIMILAR TO INTERMATIC K4021C-120, OR EQUAL



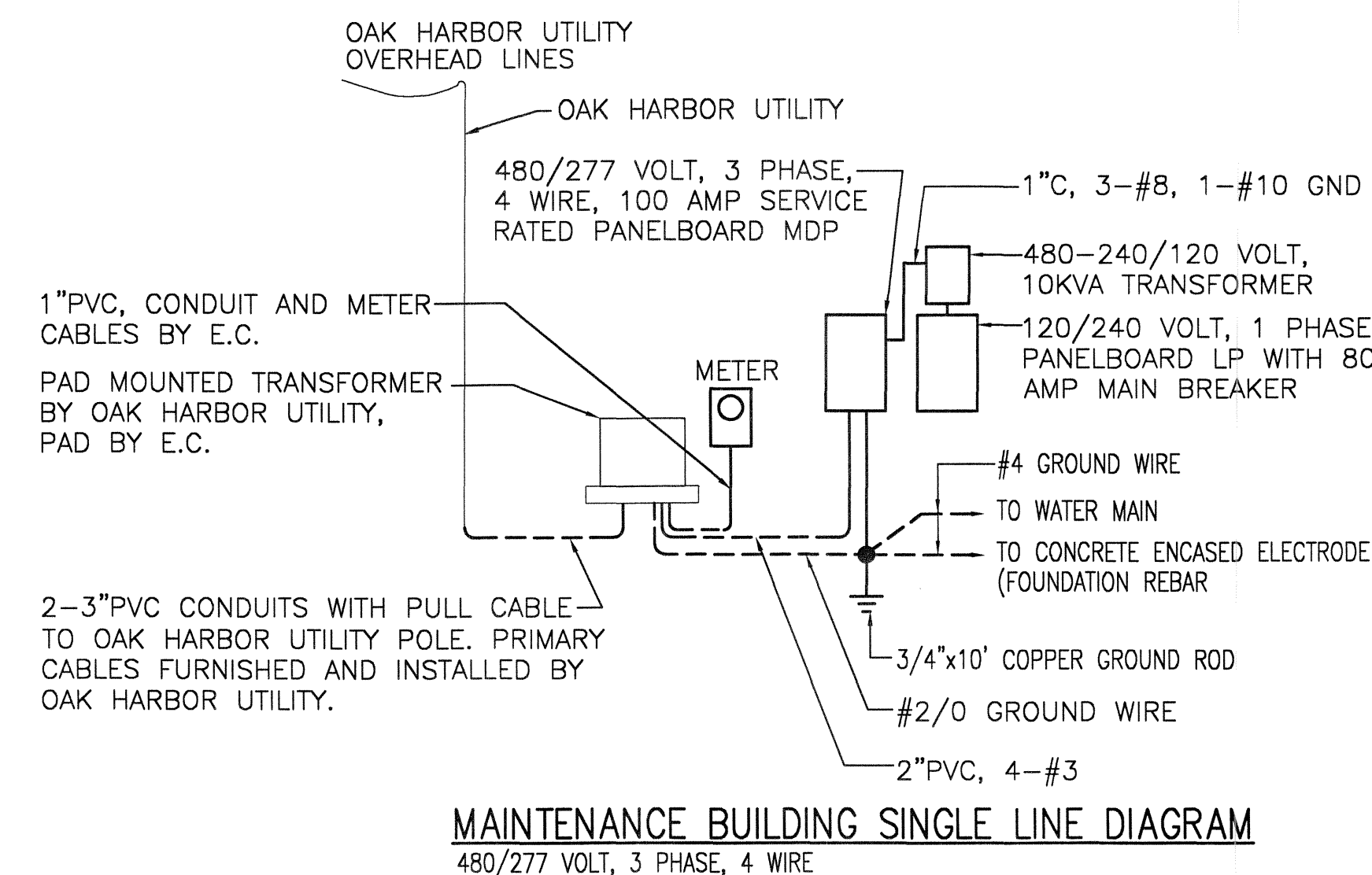
ADA MOUNTING REQUIREMENTS

- NOTES:**
- ① REFER TO SHEET E1 FOR BASIN AREA AND MAINTENANCE BUILDING SITE PLAN.
 - ② REFER TO SHEET E3 FOR PUMP STATION SINGLE LINE DIAGRAM AND LIGHTING FIXTURE SCHEDULE.
 - ③ REFER TO SHEET E7 MAINTENANCE BUILDING LIGHTING PLAN.
 - ④ REFER TO SHEET E8 MAINTENANCE BUILDING POWER PLAN.

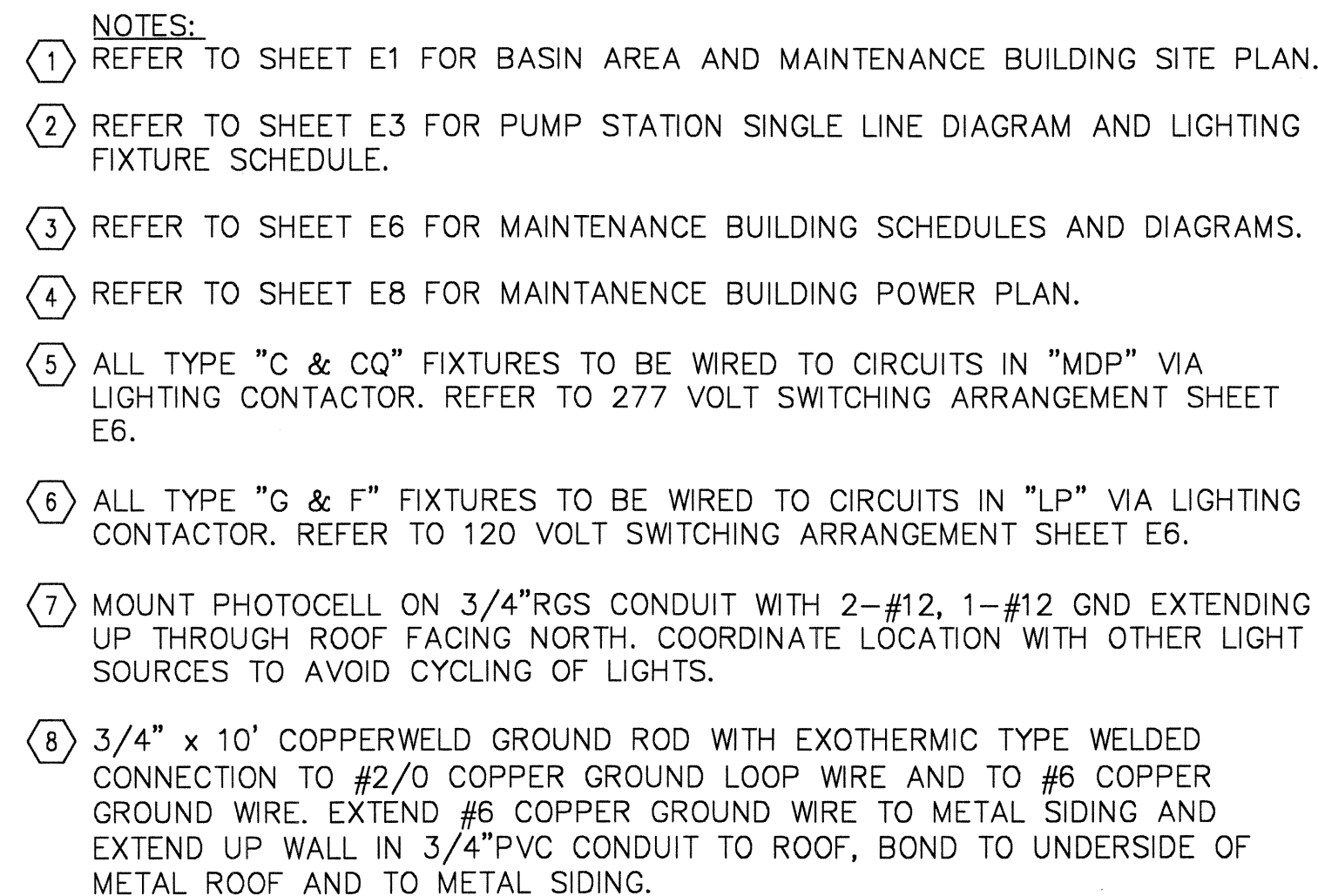


GARAGE EXTERIOR PERIMETER LIGHTING

120 VOLT SWITCHING ARRANGEMENT



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**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

**MAINTENANCE BLDG.
ELECTRICAL
LIGHTING PLAN**

DRAWN BY
G.N.C.

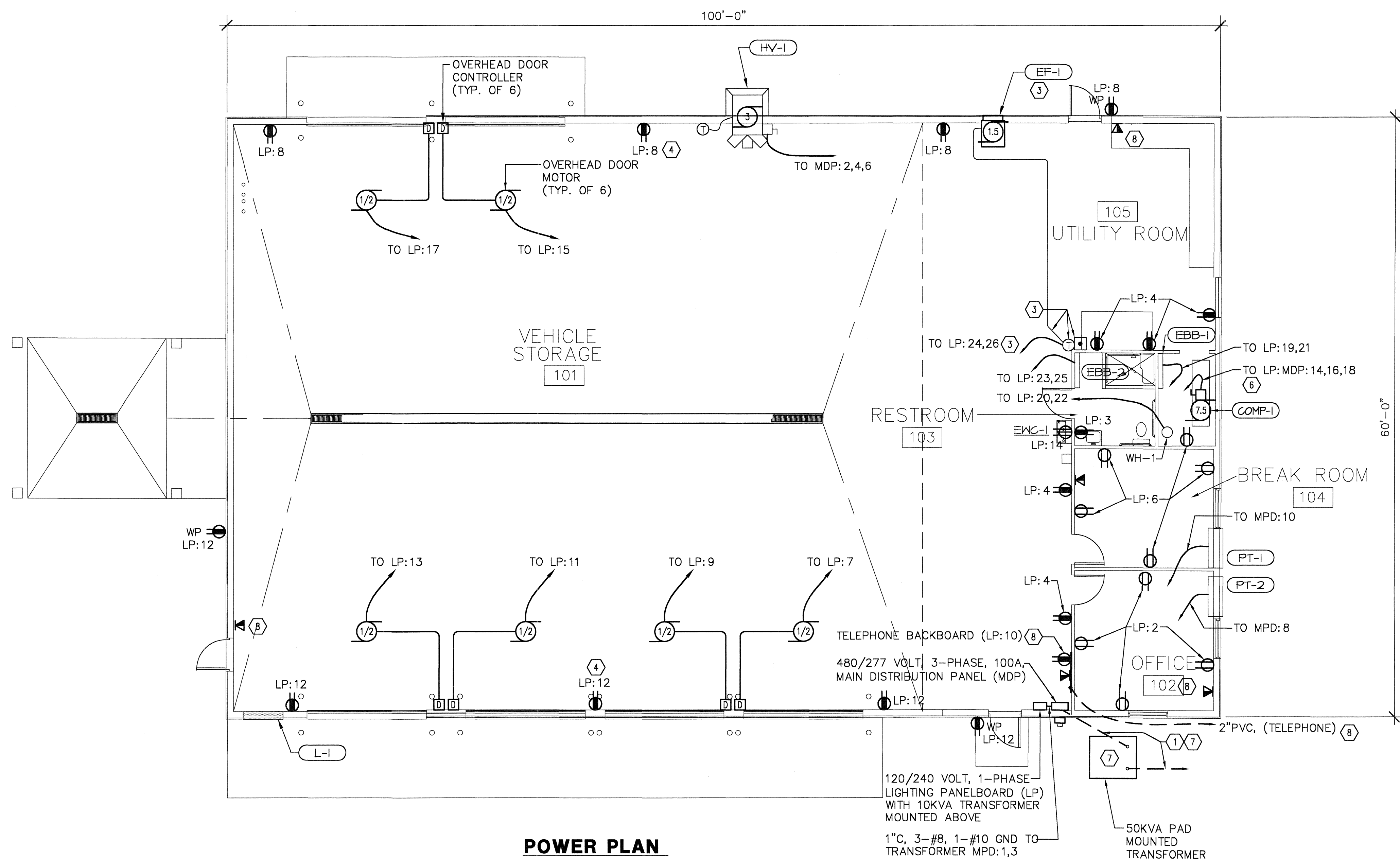
CHECKED BY
D.L.K.

REVISION

**E7
OF
32**

JOB NUMBER
1590-

1590-0000



- NOTES:**
- 1 REFER TO SHEET E1 FOR BASIN AREA AND MAINTENANCE BUILDING SITE PLAN.
 - 2 REFER TO SHEET E6 FOR MAINTENANCE BUILDING SCHEDULES AND DIAGRAMS.
 - 3 LINE VOLTAGE THERMOSTAT, H-O-A SELECTOR SWITCH AND CONTROL INTERLOCK WIRING TO EF-1 FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL 3/4" C, 2-#12, 1-#12 GND FROM THERMOSTAT TO LP: 24,26.
 - 4 ALL DUPLEX RECEPTACLES IN SHOP TO BE MOUNTED AT 4'-0" A.F.F.
 - 5 ALL ELECTRICAL DEVICES SHALL BE MIN. 18" A.F.F.
 - 6 ELECTRICAL CONTRACTOR TO PROVIDE 480 VOLT AC, CIRCUIT SIZED AS REQUIRED TO MATCH AIR COMPRESSOR BY OWNER. COORDINATE EXACT LOCATION WITH THE OWNER. AIR COMPRESSOR PLACED ON LEVEL ABOVE UTILITY ROOM.
 - 7 CONTRACTOR TO INSTALL SECONDARY SERVICE BETWEEN THE TRANSFORMER AND THE MDP, MAIN DISCONNECT PANEL. THE SECONDARY SERVICE SHALL BE 2" PVC, 4-#3, RHW. INSTALL 2-3" PVC CONDUITS FROM TRANSFORMER PRIMARY TO RISER POLE, STUB AT POLE. INSTALL TRANSFORMER PAD, METER SOCKET, METER CONDUIT AND WIRE AS DIRECTED BY OAK HARBOR UTILITIES AND PER THEIR STANDARDS. PRIMARY CABLES, TRANSFORMER AND METER BY OAK HARBOR UTILITIES. COORDINATE ELECTRICAL SERVICE CONNECTION WITH OAK HARBOR UTILITIES.
 - 8 INSTALL 3/4" x 48" x 48" TELEPHONE BACKBOARD AT LOCATION DIRECTED BY OWNER. INSTALL 2" PVC CONDUIT FROM BACKBOARD TO TELEPHONE SERVICE CONNECTION POINT. FIELD VERIFY LOCATION AND QUANTITY OF TELEPHONE OUTLETS WITH OWNER. COORDINATE TELEPHONE SERVICE CONNECTION TO MAINTENANCE BUILDING WITH LOCAL TELEPHONE PROVIDER.
 - 9 REFER TO SHEET E7 FOR MAINTENANCE BUILDING LIGHTING PLANS.



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**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

**MAINTENANCE BLDG.
ELECTRICAL
POWER PLAN**

DRAWN BY: G.N.C. CHECKED BY: D.L.K.
REVISION

**E8
OF
32**
JOB NUMBER
1590-120

ANY INFORMATION OR DATA ON THIS DRAWING IS NOT INTENDED TO BE SUITABLE FOR REUSE BY ANY PERSON, FIRM OR CORPORATION OR ANY OTHERS ON EXTENSIONS OF THIS DRAWING. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION AND DATA FROM THE PROJECT OR SURVEYOR. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION AND DATA FROM THE PROJECT OR SURVEYOR. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION AND DATA FROM THE PROJECT OR SURVEYOR.

GENERAL NOTES

A. CONTRACT DRAWINGS: THIS CONTRACTOR SHALL CONSULT WITH THE ENGINEER REGARDING ALL QUESTIONS ON WHICH HE MAY HAVE DOUBT BEFORE PROCEEDING WITH INSTALLATION. ADDITIONAL DETAIL OR DRAWINGS NECESSARY ARE AT HIS OWN EXPENSE. VERIFY ALL DIMENSIONS AND CONDITIONS AS INDICATED ON THE DRAWINGS AND DETERMINE IF ANY CHANGES ARE REQUIRED. THE CONTRACTOR HAS THE RIGHT TO MODIFY ROUTES OF PIPE, ETC. AS MAY BE FOUND NECESSARY OR DESIREABLE TO AVOID INTERFERENCES, HOWEVER INSTALLATION REVISIONS SHALL BE VERIFIED WITH THE ENGINEER. IN GENERAL DRAWINGS ARE SCHEMATIC IN NATURE AND ARE INTENDED AS A GUIDE TO THE CONTRACTOR BUT DO NOT NECESSARILY SHOW ALL DETAILS, OFFSETS, ETC.. DRAWINGS ARE TO BE THOROUGHLY INSPECTED. WORK SHALL CONFORM TO THE INFORMATION CONTAINED IN THE SPECIFICATIONS AND/OR AS INDICATED IN THE LATEST REVISION OF THE DRAWINGS REFERRED TO HERE-IN.

B. VERIFICATION: BEFORE RUNNING ANY PIPING, WITHIN THE BUILDING, THIS CONTRACTOR SHALL ASSURE HIMSELF THAT THEY CAN BE INSTALLED AS CONTEMPLATED WITHOUT TRAPPING OR INTERFERING WITH COLUMNS, BEAMS, PIPING, FIXTURES, ETC. IF CHANGES ARE NOT APPROVED BEFORE INSTALLED THEY ARE AT THE CONTRACTORS' EXPENSE. WHEN THE CONTRACTOR DETERMINES THE MAKE OF EQUIPMENT TO BE PROVIDED FOR THE JOB, IT SHALL BE HIS RESPONSIBILITY TO VERIFY AND COORDINATE UNIT DIMENSIONS WITH THE GENERAL CONTRACTOR AND ALL OTHER INTERESTED CONTRACTORS ON THE JOB. ALL OPENINGS AND SUPPORTING STEEL, CURBS, ELECTRICAL DATA, ETC., WILL FIT THE EQUIPMENT SUPPLIED. ADDITIONAL COST WILL BE THE SOLE RESPONSIBILITY OF THIS CONTRACTOR. EXISTING EQUIPMENT, SEWERS, PIPES, DUCTS, CONDUITS, ETC., IN PLACE AS SHOWN ON THE DRAWINGS, ARE TAKEN FROM AS-BUILT AND RECORD DRAWINGS AND ARE DEEMED RELIABLE ONLY INsofar AS GENERAL LAYOUT IS CONCERNED. CHECKING IN PLACE ITEMS WILL BE THE CONTRACTOR'S RESPONSIBILITY.

C. SITE VISIT: CONTRACTORS SHALL VISIT, AND THOROUGHLY EXAMINE THE PROJECT SITE AND ITS ASSOCIATED CONDITIONS. ALL CONTRACTORS SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO SUBMITTING A BID PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED FOR ANY DEVIATIONS OR DISCREPANCIES TO THESE PLANS AFTER A CONTRACTOR HAS BEEN SELECTED.

D. NEW WORK: UNLESS OTHERWISE NOTED, ALL WORK INDICATED THROUGHOUT THESE DRAWINGS SHALL BE CONSIDERED TO BE NEW WORK AND SHALL BE INCLUDED IN THIS CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK WITH OTHER TRADES TO AVOID POSSIBLE CONFLICTS. CONTRACTOR SHALL NOT INSTALL ANY WORK KNOWINGLY IN ERROR. ALL PLUMBING AND PIPING WORK SHALL BE IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND REQUIREMENTS.

E. SUBMITTALS: SUBMIT FOR REVIEW DETAILED DIMENSIONED DRAWINGS AND/OR EQUIPMENT CUT SHEETS SHOWING CONSTRUCTION SIZE, ARRANGEMENT, OPERATING CLEARANCES, PERFORMANCE CHARACTERISTICS AND CAPACITY OF EQUIPMENT. SHOP DRAWINGS SHALL SHOW THE RATINGS OF ITEMS AND SYSTEMS AND HOW THEY WILL BE INSTALLED ON THE PROJECT. IT IS THE INTENT OF THESE CONTRACT DRAWINGS TO HAVE THE CONTRACTOR PREPARE "AS-BUILT" RECORD DRAWINGS IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS.

F. CUTTING, PATCHING & FINISHING: PROVIDE CUTTING AND PATCHING OF ALL MATERIALS NECESSARY FOR THE INSTALLATION AND PROTECT THE STRUCTURE, FURNISHINGS, FINISHES AND MATERIALS ADJACENT TO THE AREA OF CUTTING AND PATCHING. PATCH EXISTING FINISHED SURFACES AND EQUIPMENT USING NEW MATERIALS AND METHODS, TO MATCH ADJACENT WORK. PATCHING OF FIRE RATED PARTITIONS, CEILINGS AND OTHER ASSEMBLIES, SHALL MATCH THE RATING OF THE RATED BARRIER WITH MATERIALS LISTED AND IDENTIFIED FOR SUCH USE, AND SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF THE SPECIFICATIONS. OPENINGS PENETRATING FIRE-RATED FLOOR SLABS, WALL PARTITIONS, CEILINGS, OR SMOKE PARTITIONS, SHALL BE SEALED AT BOTH SIDES OF THE PENETRATION AND SHALL NOT EXTEND THROUGH SLEEVES. USE ACCEPTABLE FIRE STOP.

G. CLOSE-OUT: CONTRACTOR SHALL RUN TESTING, CHECK-OUT AND SYSTEM OPERATIONS TO OWNER TO ASSURE PROPER PERFORMANCE OF ITEMS PROVIDED UNDER THE CONTRACT. REMOVE ALL DEBRIS AND CLEAN ALL FIXTURES AND EQUIPMENT, ETC., INSIDE AND OUTSIDE. PROVIDE A BINDER WHICH INCLUDES: COPIES OF EACH SHOP DRAWING, PREVENTATIVE MAINTENANCE PROCEDURES, OPERATION AND INSTRUCTION MANUALS, LITERATURE SUPPLIED WITH PLUMBING EQUIPMENT, AND PROVIDE AT LEAST 2 HOURS OF INSTRUCTION TO THE OWNER, TO FAMILIARIZE THEM WITH THE LOCATION OF EQUIPMENT, AND TRAIN THEM ON EQUIPMENT FUNCTIONS, MAINTENANCE PROCEDURES.

H. GUARANTEE: THE CONTRACTOR GUARANTEES THAT ALL HIS WORK WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND/OR MATERIALS AND THAT ALL SYSTEMS WILL DEVELOP CAPACITIES AND CHARACTERISTICS SPECIFIED. SHOULD ANY DEFECTS IN WORKMANSHIP, AND/OR MATERIALS REQUIRE REDESIGN OF ANY PART OF THE ELECTRICAL, MECHANICAL, PLUMBING, OR ARCHITECTURAL LAYOUT, ALL SUCH REDESIGN AND ALL NEW DRAWINGS AND DETAILING REQUIRED THEREOF SHALL, WITH THE APPROVAL OF THE ENGINEER, BE PREPARED BY THE CONTRACTOR AT HIS OWN EXPENSE. IF THIS APPROVED DEVIATION REQUIRES A DIFFERENT ARRANGEMENT OF DUCTWORK, PIPING, WIRING, CONDUIT AND/OR EQUIPMENT FROM THAT SPECIFIED ON THE DRAWINGS, WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUCH MATERIALS AND/OR EQUIPMENT REQUIRED BY THE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

- MISCELLANEOUS NOTES:**
- 1.) CONTRACTOR TO FURNISH AND INSTALL ALL LABOR, MATERIALS, FIXTURES, AND EQUIPMENT AS SHOWN ON DRAWINGS OR SPECIFIED HEREIN, AND ANY AND ALL DETAILS OR ITEMS ESSENTIAL TO COMPLETE THE INSTALLATION WHETHER SAME ARE SPECIFICALLY MENTIONED OR NOT. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON DRAWINGS NOR CALLED FOR HEREIN, BUT ARE OBVIOUSLY NECESSARY TO COMPLETE THE WORK AND WHICH IS USUALLY INCLUDED IN WORK OF SIMILAR CHARACTER, SHALL BE FURNISHED AND INSTALLED WITHOUT ADDITIONAL COST.
 - 2.) CONTRACTOR SHALL ARRANGE AND PAY FOR ALL OTHER FEES FOR PERMITS, INSPECTIONS, CERTIFICATES, AND MISCELLANEOUS COSTS INCURRED DUE TO STATE AND/OR LOCAL GOVERNING AUTHORITIES REQUIREMENTS FOR THE PLUMBING PORTION OF THE WORK, INCLUDING UTILITY COMPANY CHARGES.
 - 3.) ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND/OR LOCAL CODES AND REGULATIONS HAVING JURISDICTION OVER THE PROJECT.
 - 4.) ALL WORK SHALL BE DONE BY SKILLED CRAFTSMAN AND SHALL BE OF HIGHEST QUALITY IN ACCORDANCE WITH THE BEST PRACTICES OF THIS TRADE.
 - 5.) DRAWINGS ARE SCHEMATIC AND FOR REFERENCE ONLY. COORDINATE PIPING ROUTES WITH OTHER TRADES.
 - 6.) CONTRACTOR SHALL COORDINATE AND VERIFY WITH THE MECHANICAL CONTRACTOR THE INSTALLATION AND/OR HOOKUP OF OWNER SUPPLIED EQUIPMENT AND HVAC EQUIPMENT.
 - 7.) PROPERLY TEST ALL UNDERGROUND LINES PRIOR TO BACKFILL ACCORDING TO APPLICABLE CODES.
 - 8.) CONFIRM WITH GENERAL CONTRACTOR THE PROPER LOCATION OF SOLID BLOCKING IN STUD PARTITIONS FOR ANCHORAGE OF PLUMBING FIXTURES.
 - 9.) CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING BUILDING DRAIN AND ITS HOOKUP TO BUILDING SEWER. COORDINATE LOCATION AND INVERT ELEVATIONS WITH GENERAL CONTRACTOR.
 - 10.) FLOORS SHALL SLOPE DOWN TO FLOOR DRAINS. COORDINATE TOP OF DRAINS WITH GENERAL CONTRACTOR.
 - 11.) COORDINATE WITH MECHANICAL CONTRACTOR TO MAINTAIN PROPER DISTANCE BETWEEN AIR INTAKES, EXHAUSTS, AND VENTS PER GOVERNING AUTHORITIES REQUIREMENTS.
 - 12.) WATER SUPPLY LINE SIZED WITH A DESIGN FACTOR OF 55 PSI AVAILABLE AT MAIN SERVICE ENTRANCE.
 - 13.) ALL WATER LINES TO BE ROUTED OVERHEAD AND WITHIN INTERIOR WALLS WHENEVER POSSIBLE.
 - 14.) HYDRANT TO BE INSTALLED ON EXTERIOR TO BE FROST PROOF.
 - 15.) PROVIDE SHUT OFF VALVES AT ALL OVERHEAD WATER LINES.
 - 16.) PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ALL INTERIOR & EXTERIOR GAS PIPING, INCLUDING REGULATORS ON EXISTING EQUIPMENT. PLUMBING CONTRACTOR SHALL HOOK UP ALL EQUIPMENT.
 - 17.) ALL SLEEVES AND THEIR LOCATIONS FOR PLUMBING WORK PASSING THROUGH WALLS TO BE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR.
 - 18.) PROVIDE TRAP PRIMERS FOR ALL DRAINS WHERE MOISTURE REQUIRED FOR PROPER SEAL IS DEFICIENT.
 - 19.) PLUMBING CONTRACTOR SHALL VERIFY WATER PRESSURE CONDITIONS AT THE SITE. CONTRACTOR SHALL PROVIDE PRESSURE REDUCER VALVE IF PRESSURE EXCEEDS 80 PSI.
 - 20.) CLEANOUT SEPARATION ON HORIZONTAL RUNS SHALL NOT EXCEED 100 FT.
 - 21.) INSTALL DIELECTRIC FITTING BETWEEN FERROUS AND NON-FERROUS MATERIALS.
 - 22.) CONTRACTOR TO VERIFY LOCATION OF EXISTING WATER, GAS & SEWER MAINS AND POINTS OF CONNECTION.
 - 23.) ALL PIPING EXPOSED TO WEATHER SHALL BE PAINTED AND COATED WITH AN APPROVED PROTECTIVE COATING FOR CORROSION CONTROL.
 - 24.) ALL PIPING IS TO BE HUNG AND ANCHORED PER CODE.
 - 25.) CONTRACTOR IS TO VERIFY THAT FALL OF THE SEWER LINE WILL MEET INVERT AT POINT OF CONNECTION BEFORE INSTALLING PIPING.
 - 26.) ALL INDIRECT WASTE LINES TO BE AIR GAPPED OVER FLOOR SINKS AND FLOOR DRAINS.
 - 27.) ALL HOSE BIBS DOWNSTREAM OF REDUCED PRESSURE BACKFLOW PREVENTOR SHALL BE LABELED "NON-POTABLE WATER".
 - 28.) BUILDING SHALL HAVE AN APPROVED BACKFLOW PREVENTION DEVICE OF REDUCED PRESSURE TYPE (E.P.A. AND COUNTY APPROVED).
 - 29.) CONTRACTOR RESPONSIBLE FOR REPAIR AND/OR FIRESTOPPING OF ALL PENETRATIONS RESULTING FROM HIS WORK.
 - 30.) CONTRACTOR RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEBRIS RESULTING FROM HIS WORK.
 - 31.) INSTALL ISOLATION VALVES AT ALL MAJOR WATER LINE BRANCHES.
 - 32.) CAREFULLY COORDINATE ALL FLOOR DRAINS, CLEANOUTS, SANITARY PIPING, ETC. WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

PLUMBING FIXTURE SCHEDULE

DESCRIPTION	SYMBOL	WASTE	VENT	COLD	HOT	REMARKS
WATERCLOSET WALL MOUNTED - ADA	WC-1	4"	2"	1½"	-	KOHLER #K-3481 WHITE "WELLWORTH" ELONGATED BOWL, K-4670C SEAT, TANK, #K4670C SEAT, K7637 STOP AND SUPPLY. SUITABLE SUBSTITUTE: TOTO OR AMERICAN STANDARD
LAVATORY	LAV-1	2"	1½"	¾"	¾"	KOHLER K-2005 WHITE KINGSTON LAVATORY K-7605 STOP AND FLEX SUPPLIES, K-8998 TRAP, K15182 FAUCET, AND TRUBRO #102 KIT & GRID STRAINER
ELECTRIC WATER COOLER	EW-1	1½"	1½"	¾"	-	OASIS #PFBACEE ELECTRIC WATER COOLER WITH "LEAD OUT" FILTER, BRASS P-TRAP, STOP & SUPPLY; ELECT. 120/1/60; MOUNT AT ADA HEIGHT. CABINET TO BE "SANDSTONE" COLOR.
WATER HEATER	WH-1	-	-	¾"	¾"	LOCHINVAR #ETX040KK (4000 WATT), 40 GALLON ELECTRIC WATER HEATER, ELEC: 208-1-60; TEMPERATURE & PRESSURE RELIEF VALVE; WALL SUPPORT.
EXPANSION TANK	EXT-1	-	-	½"	-	AMTROL #12T
MIXING VALVE	MV-1	-	-	½"	½"	POWERS e490-2C0 MIXING VALVE
BACKFLOW PREVENTOR	BFP-1	-	-	1"	-	WATTS #009QT WITH YOKE AND RELIEF DISCHARGE TO FLOOR DRAIN
HYDRANT	HYD-1	-	-	1"	-	ZURN Z-1315 HYDRANT
HOSE BIBB	HB-1	-	-	¾"	¾"	WATTS #BD-1
FLOOR DRAIN	FD-1	3"	-	-	-	ZURN #ZN-415-3NL-6C-P(½")
HANDICAP SHOWER	SH-1	3"	-	½"	½"	SHOWER TO BE AQUAGLASS, LASCO, OR AQUABATH # 06536BF-FUS-RS ¾"-R, SHOWER (O.D. DIMENSIONS 65"x37"x82½" HIGH), FOLD-UP SEAT, HAND HELD SHOWER ASSEMBLY, 30" SLIDE BAR, WOMEN POSTEWP PRESSURE BALANCING CONTROL VALVE, SHOWER CURTAIN (WEIGHTED), TEMPERATURE THERMOMETER, DOME LIGHT AND HANDICAP SUPPORT BARS. RIGHT HAND UNIT, WHITE IN COLOR.
FLOOR CLEANOUT	CO-1	4"	-	-	-	ZURN ZN-1400-4NL CLEANOUT

LOUVER SCHEDULE

EQUIP. NO.	AREA SERVED	SERVICE / FUNCTION	OVERALL SIZE		# OF PANELS	PANEL SIZE		DEPTH	MIN. FREE AREA (SQ.FT.)	CFM	MAX. VELOCITY (FPM)	MAX. PRESS. DROP (IN. W.G.)	BLADE			MATERIAL	SCREEN	MANUFACTURER & MODEL	NOTES:
			WIDTH	HEIGHT		WIDTH	HEIGHT						STYLE	ANGLE	SPACING				
L-1	SHOP	INTAKE	48"	72"	1	48"	72"	4"	10.1	6700	800	0.10	ADJUSTABLE	45°	4"	ALUMINUM	INSECT	GREENHECK # EAD-401	1, 2, 3, 4
NOTES / OPTIONS / ACCESSORIES: 1. MOUNT BOTTOM @ 3'-0" ABOVE FINISH FLOOR. 2. INTERLOCK DAMPER WITH EXHAUST FAN, EF-1, HV-1, AND CO SENSOR. 3. COUNTERFLASH AND SEAL TIGHT 4. FURNISH WITH BLADE & JAMB SEALS																			

HEATING & VENTILATING UNIT SCHEDULE

EQUIPMENT NO.	LOCATION	CFM	ELECTRICAL DATA		FUEL	MBH	TEMP. RISE	WEIGHT	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
			HP	V / PH. / HZ.						
HV-1	WALL	3500	2	240/3/60	NAT. GAS. (2 PSI)	757	160°	540	CAMBRIDGE ENGINEERING: #S-800	1, 2, 3, 4, 5, 6, 7, 8, 9
NOTES-OPTIONS-ACCESSORIES: 1. INCLUDE "EXTERIOR WALL MOUNTING PACKAGE" 2. SNOW SKIRT 3. EDMS/CTP CONTROLS 4. FM GAS TRAIN WITH ENCLOSURE 5. EXHAUST INTERLOCK 6. HPR 7. FUSED DISCONNECT 8. TSS CONTROLS 9. DIRECTIONAL ELBOWS										

PACKAGE TERMINAL UNITS

EQUIPMENT NO.	LOCATION	ELECTRICAL DATA		MBH COOLING CAPACITY	MBH HEATING CAPACITY	EER	AIRFLOW (CFM)	OUTSIDE AIR (CFM)	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
		MCA	V / PH. / HZ.							
PT-1	OFFICE	13.3	208-240/3/60	8500	8500	10.1	270	30	McQUAY COMFORT PACKAGE #PMRS-009	1, 2, 3
PT-2	BREAKROOM	13.3	208-240/3/60	8500	8500	10.1	270	30	McQUAY COMFORT PACKAGE #PMRS-009	1, 2, 3
NOTES-OPTIONS-ACCESSORIES: 1. WALL SLEEVE 2. BUILT-IN THERMOSTAT 3. PROVIDE WITH FLOOR BASE										

FAN SCHEDULE

EQUIPMENT NO.	SERVICE	LOCATION	CFM	STATIC PRESS. (IN. W.G.)	MOTOR		MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
					HP	VOLT.-PH.-CY.		
EF-1	EXHAUST	SHOP	6700	0.25	1½	240/1/60	GREENHECK: #SE1-20-432-A15	1, 2, 3, 6
EF-2	EXHAUST	TOILET ROOM	75	0.375	-	120/1/60	GREENHECK: #SP-B110	4, 5, 6
NOTES / OPTIONS / ACCESSORIES: 1. PROVIDE MOTORIZED EXTERIOR WALL SHUTTER AND PANEL FAN REAR GUARD 2. FAN SHALL BE WALL MOUNTED 3. FAN SHALL BE INTERLOCKED WITH L-1, CO SENSOR, AND LINE VOLTAGE THERMOSTAT 4. INSTALL 4"DIA. DUCT BETWEEN EF-2 AND EXHAUST WALL CAP. 5. INTERLOCK WITH RESTROOM LIGHT 6. EQUALS - COOK, GREENHECK, HARTZELL								

PLUMBING PIPE & INSULATION SCHEDULE

DESCRIPTION	LINE SIZE	PIPE / INSULATION TYPE	FITTINGS	JOINT	VALVES
DOMESTIC WATER PIPING ABOVE GRADE	½" - 2"	TYPE "L" HARD COPPER TUBING	WROT COPPER	LEAD FREE SOLDER	BRONZE BALL SWEAT ENDS 600 LB. W.O.G.
DOMESTIC WATER PIPING BELOW GRADE	ALL	TYPE "K" SOFT TUBING	N/A	BRAZED SILFOS	N/A
SANITARY WASTE & VENT ABOVE GRADE	ALL	SCHEDULE 40 PVC DWV	SCHEDULE 40 DRAINAGE PATTERN	SOLVENT	N/A
SANITARY WASTE & VENT BELOW GRADE	ALL	SCHEDULE 40 PVC DWV	SCHEDULE 40 DRAINAGE PATTERN	SOLVENT	N/A
NATURAL GAS	½" - 2"	SCHEDULE 40 ASTM A-53 ERW GRADE "B" THREAD & CPL'D	150 # BLACK MALLEABLE IRON	THREADED	AGA RATED LUBRICATED GAS COCK
NATURAL GAS (UNDERGROUND SERVICE)	1" AND LARGER	AGA APPROVED FUSED POLYPROPYLENE	N/A	FUSED	AGA APPROVED
COMPRESSED AIR	½" - 2"	SCHEDULE 40 ASTM A-53 ERW GRADE "B" THREAD & CPL'D	150 # BLACK MALLEABLE IRON	THREADED	BRONZE BALL THREADED ENDS 600 LB. W.O.G.
DOMESTIC WATER INSULATION		1" THICK FIBERGLASS W/ VAPOR BARRIER	FIBERGLASS W/ PVC JACKET	SEAL	FIBERGLASS W/ PVC JACKET

ELECTRIC BASE BOARD RADIATION SCHEDULE

EQUIPMENT NO.	LOCATION	BTU / HR	ELECTRICAL DATA			MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
			WATTS	AMPS	V / PH. / HZ.		
EBB-1	ENTRANCE	3413	1000	4.2	240/1/60	QMARK #QMKC2544W	1, 2
EBB-2	ENTRANCE	3413	1000	4.2	240/1/60	QMARK #QMKC2544W	1, 2
NOTES-OPTIONS-ACCESSORIES: 1. UNIT MOUNTED STAT 2. WALL MOUNTED							

AIR COMPRESSOR EQUIPMENT

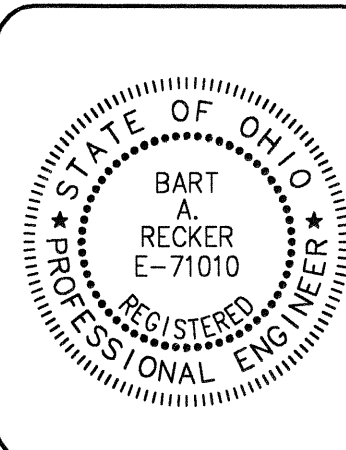
EQUIP. NO.	LOCATION	MOTOR	ELECTRICAL	TANK CAPACITY	ACFM @ 157 PSI	MANUFACTURER & MODEL NO.		NOTES
						UNIT	DRYER	
COMP-1	EQUIPMENT ROOM	7.5 HP	480/ 3 PH / 60 HZ	72 GAL.	30.7	ATLAS-COPCO GX5	INCLUDED	1, 2, 3
NOTES/OPTIONS/ACCESSORIES: 1. FLEXHOSE 2. ISOLATORS 3. AUTODRAIN VALVE								

HVAC REFERENCE SYMBOLS

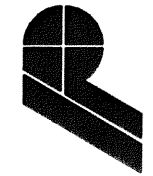
- XXX-X EQUIPMENT TAG (SEE SCHEDULES)
- DETAIL IDENTIFICATION TAG
- INDICATES DRAWING ON WHICH DETAIL APPEARS
- SECTION IDENTIFICATION TAG
- INDICATES ON WHICH DRAWING SECTION APPEARS
- INDICATES REVISION & NUMBER
- LOCATION POINT FOR COORDINATION BETWEEN FLOOR PLANS & PIPING DIAGRAMS (NUMBER)
- CONNECT NEW TO EXISTING

PLUMBING LEGEND

- DOMESTIC COLD WATER PIPING
- DOMESTIC HOT WATER PIPING (120°)
- NATURAL GAS PIPING
- SANITARY VENT PIPING
- SANITARY PIPING BELOW FLOOR
- SANITARY PIPING ABOVE FLOOR
- COMPRESSED AIR PIPING
- FLOW DIRECTION
- CLEANOUT TO GRADE
- CLEANOUT
- ABOVE FINISHED FLOOR
- INVERT ELEVATION
- PLUMBING CONTRACTOR
- GENERAL CONTRACTOR
- UNION
- SHUTOFF VALVE
- CHECK VALVE
- 3-WAY MIXING VALVE
- BACK-FLOW PREVENTER
- PIPING ELBOW DOWN
- PIPING ELBOW UP
- PIPING TEE DOWN
- PIPING TEE UP
- TRAP PRIMER
- VENT THRU ROOF
- PRESSURE GAUGE
- THERMOMETER w/RANGE
- SAFETY OR RELIEF VALVE



NO.	DATE	DESCRIPTION
REVISIONS		



POGEMEYER DESIGN GROUP, INC.
ARCHITECTS • ENGINEERS • PLANNERS
1168 NORTH MAIN STREET
BOWLING GREEN, OHIO 43402
(419) 352-7537

**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

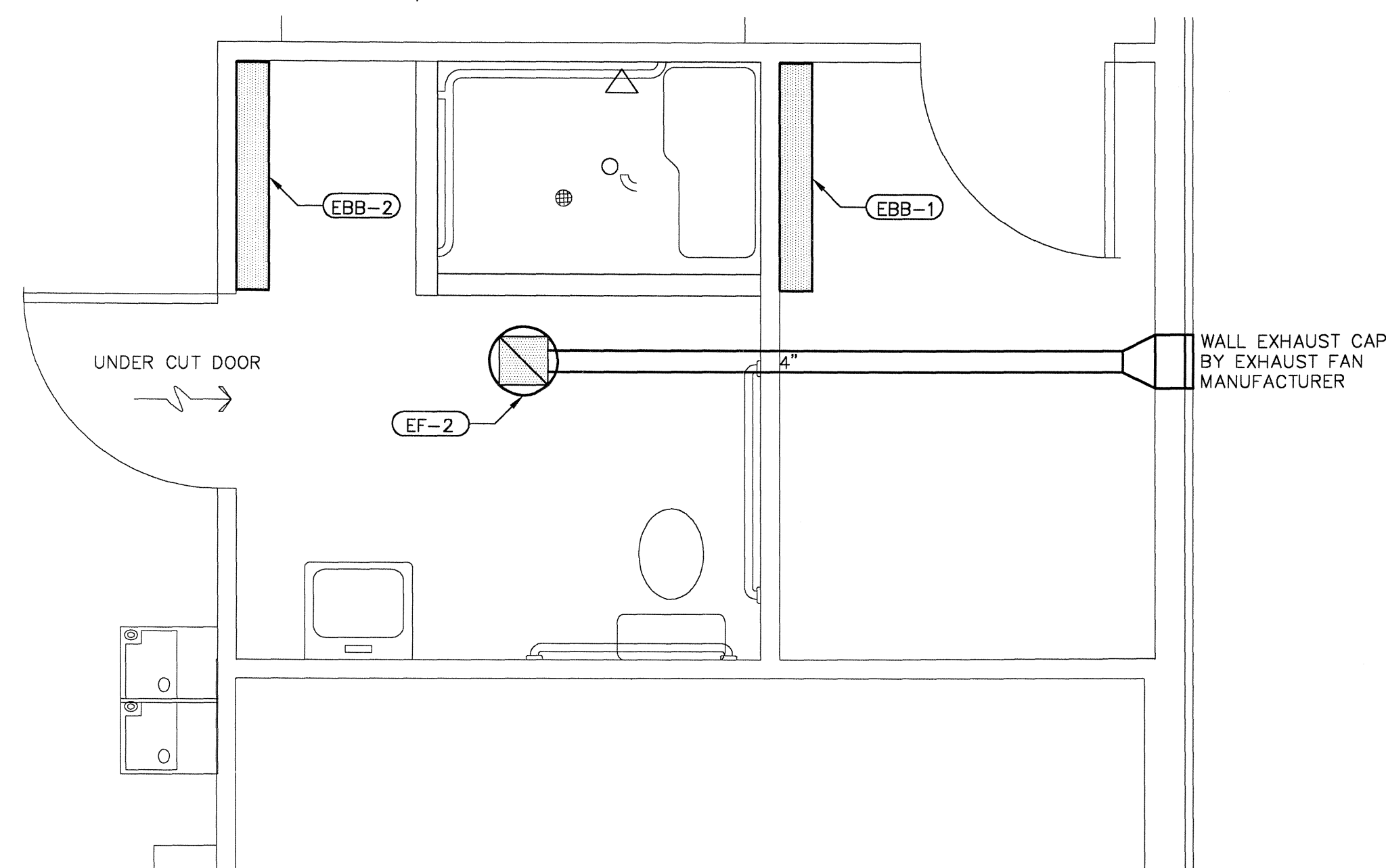
**MECHANICAL NOTES,
SCHEDULES,
AND SCHEMATICS**

DRAWN BY: MDR
CHECKED BY: BAR
REVISION

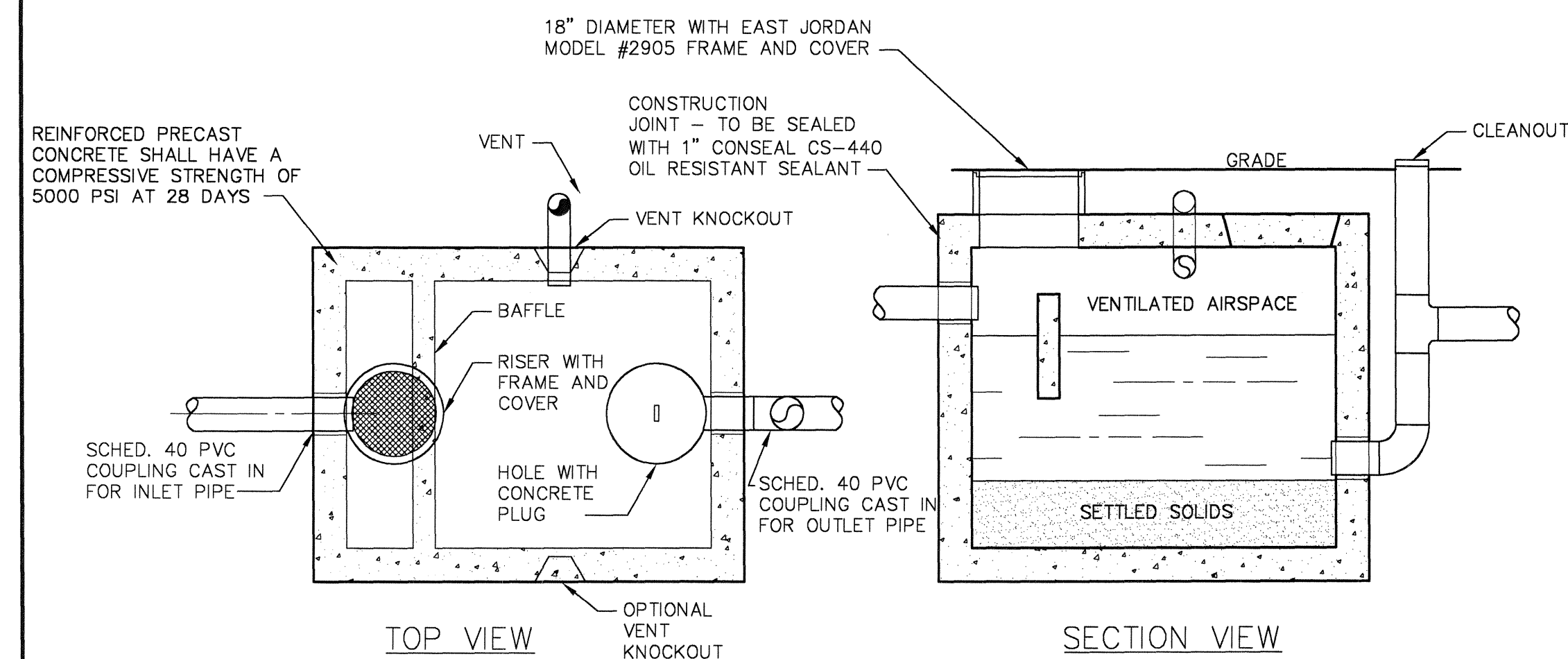
MO.1
OF
JOB NUMBER
1590-120

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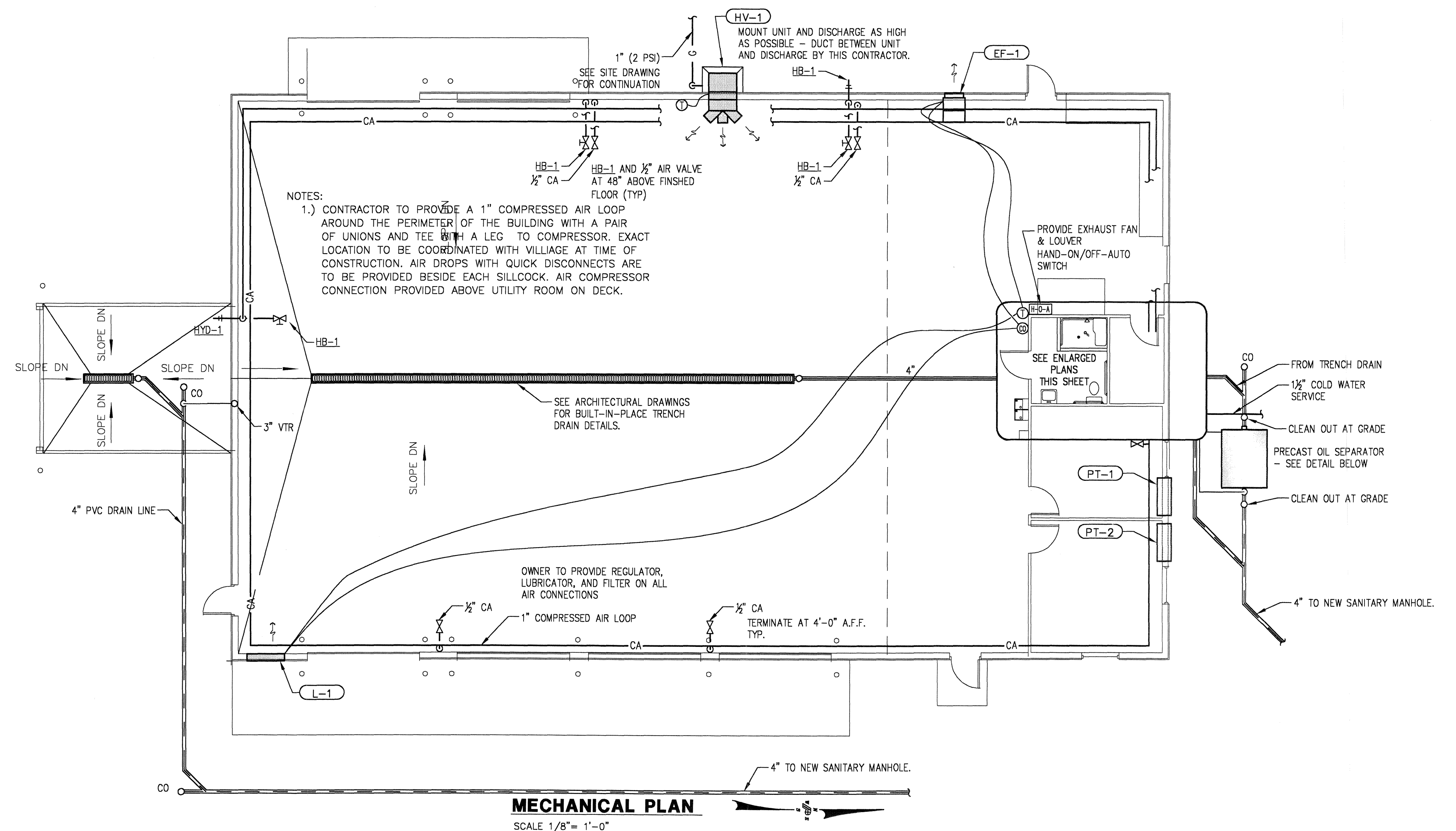
SCALE 1/2" = 1'-0"



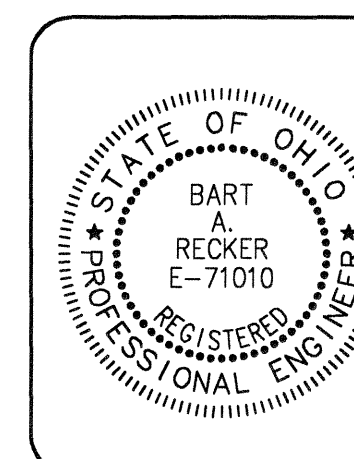
SCALE 1/2"= 1'-0"



SCALE 1/2" = 1'-0"



SCALE 1/8" = 1'-0"

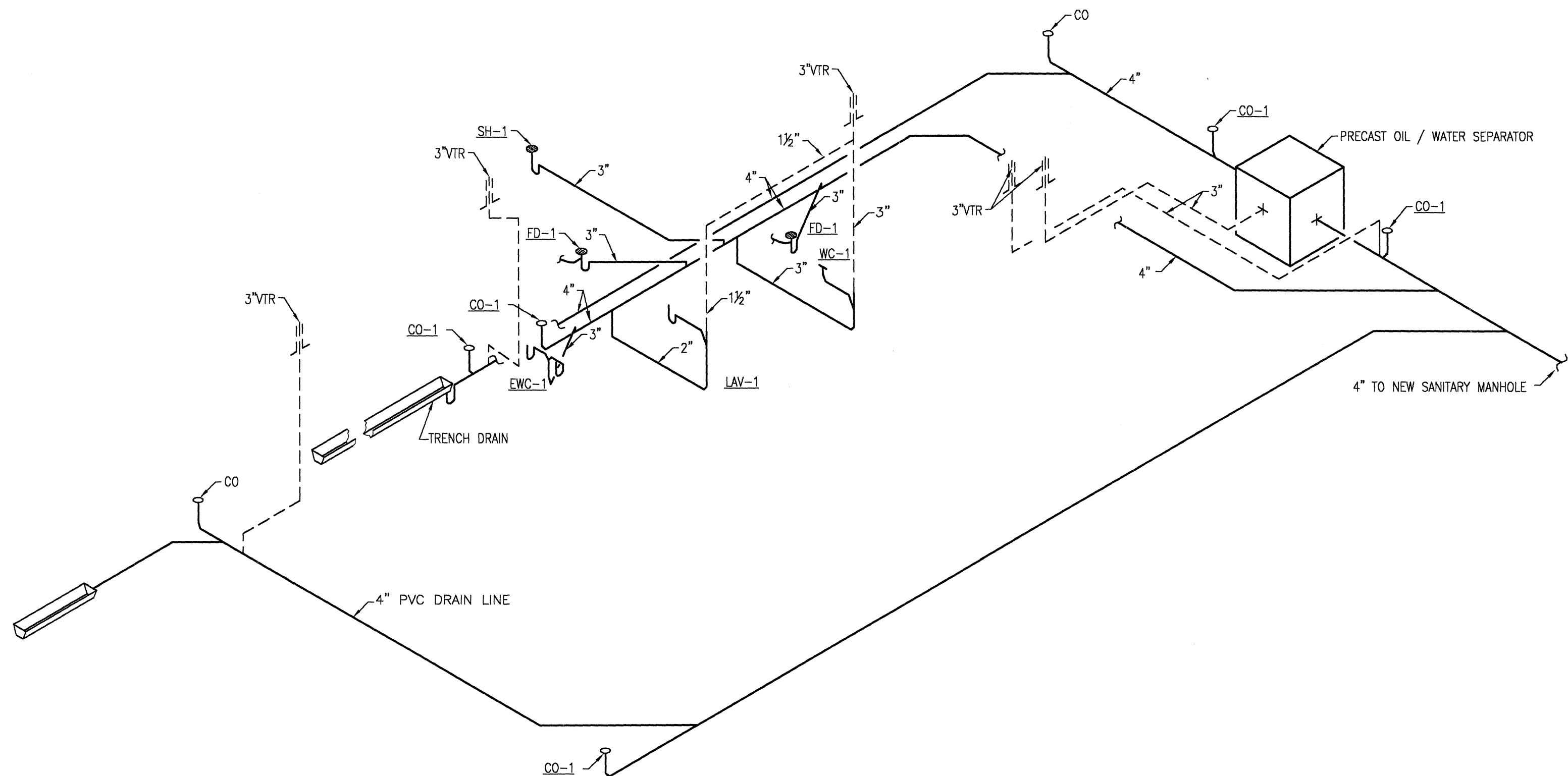


NO.	DATE	DESCRIPTION

REVISIONS

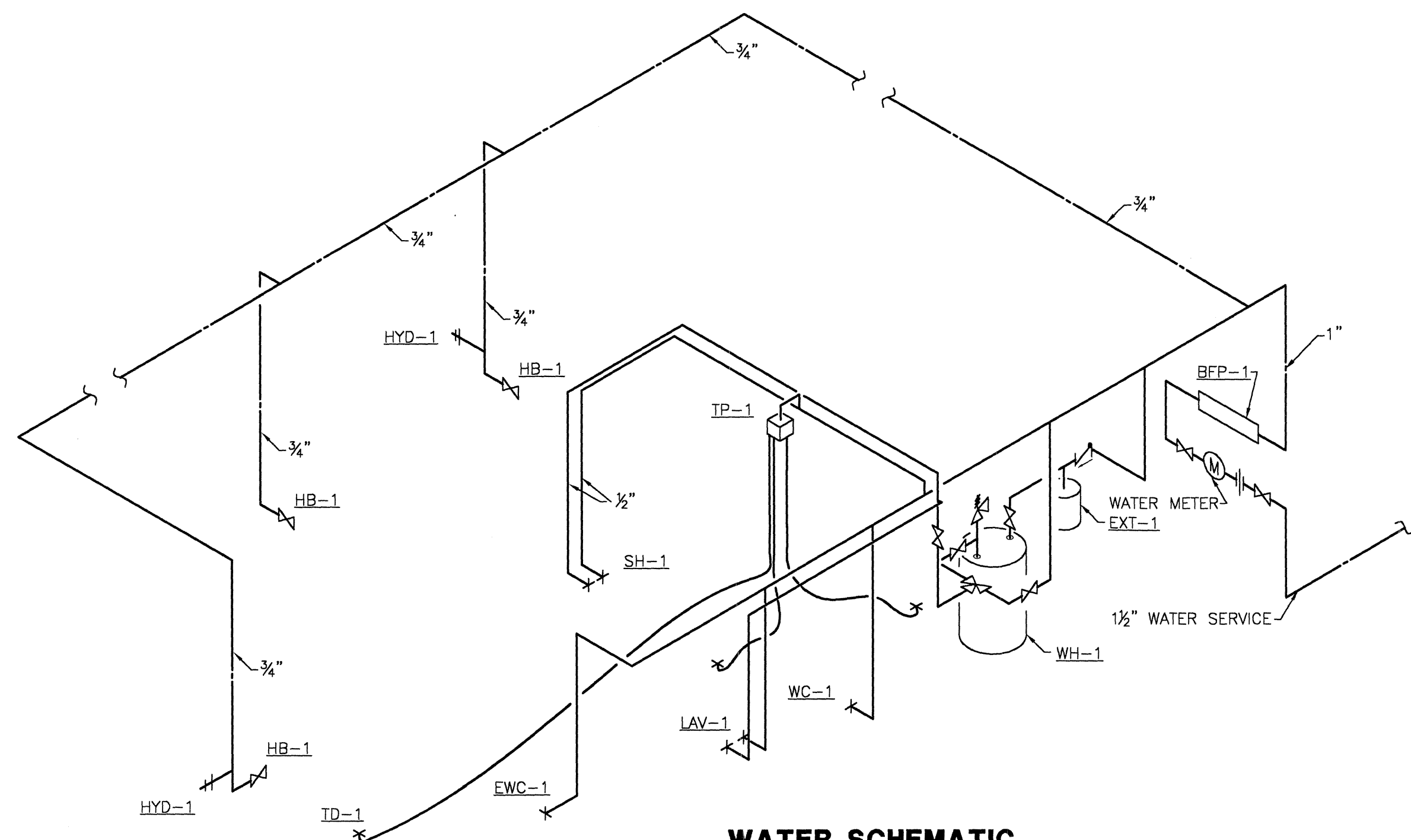
JOE NUMBER
590-120

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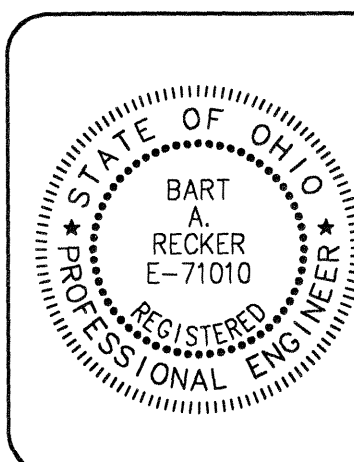
SANITARY SCHEMATIC

SCALE: NONE



WATER SCHEMATIC

SCALE: NONE



NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

M2.1
OF
JOB NUMBER
1590-120

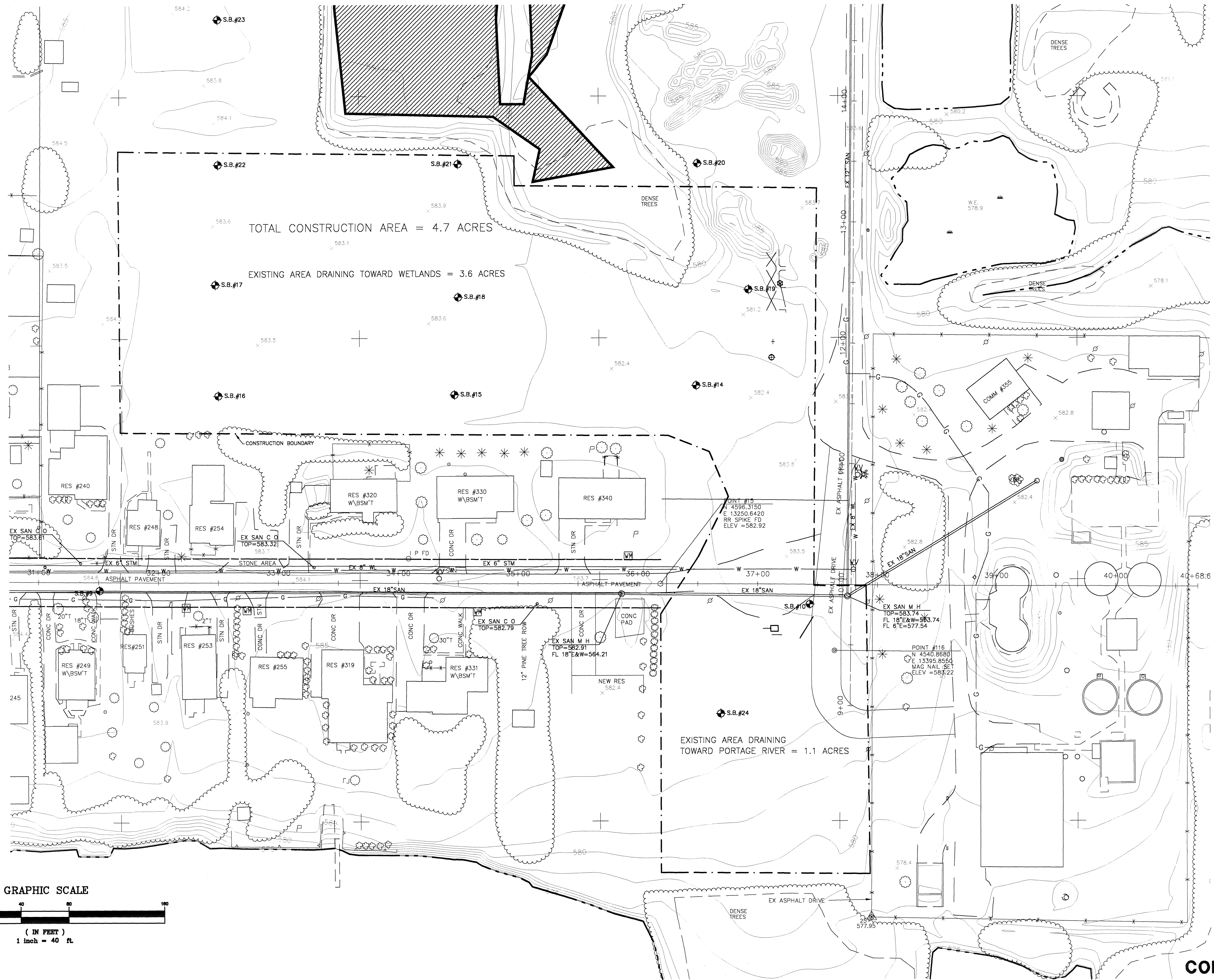
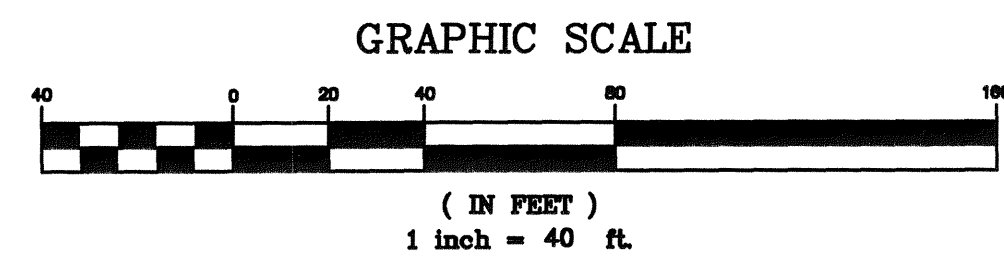
**MAINTENANCE BUILDING
PIPING
SCHEMATICS**

**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

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**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR,**

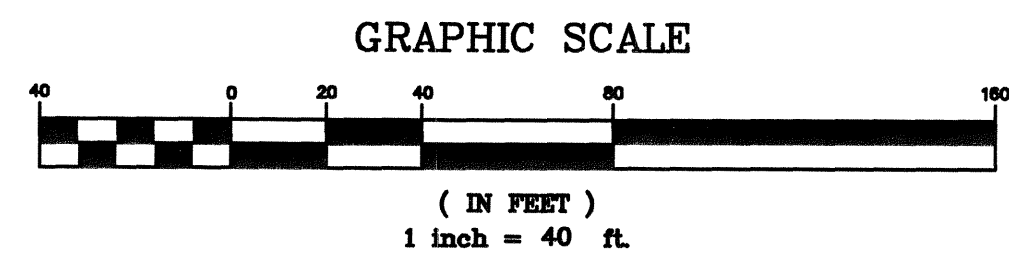
**EXISTING
DRAINAGE
AREAS**

DRAWN BY	CHECKED BY
JMF	
REVISION	

SWP3-1
OF
3
JOB NUMBER
1590-120

CONTRACT "A"&"B"

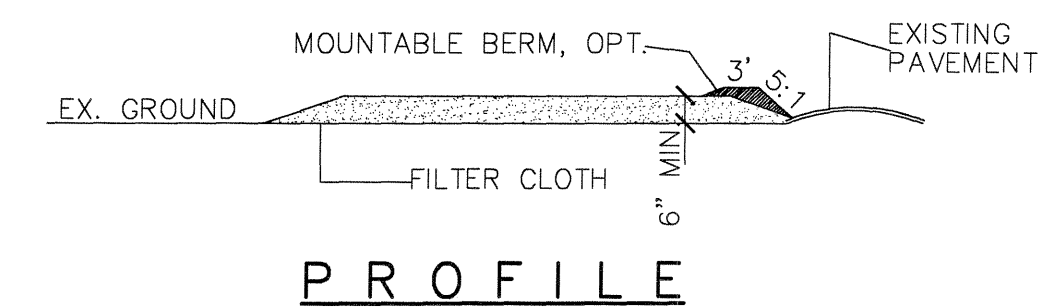
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NOTE A:
INSTALL TEMPORARY SETTING BASIN IN PROPOSED LOW SPOT OF CSO BASIN AT BEGINNING OF WORK. PUMP RAINWATER DURING CONSTRUCTION OUT OF CSO BASIN AFTER A MINIMUM OF 48 HOURS SINCE LAST RAIN EVENT UNLESS WATER IS PUMPED THROUGH A FILTER BAG. THE FILTER BAGS MUST BE SIZED TO HANDLE THE DISCHARGE FROM THE PUMP. THE INTAKE FOR PUMPING OPERATIONS SHALL BE PLACED SO AS TO DRAW WATER FROM THE TOP OF THE WATER SURFACE UTILIZING A FLOAT OR OTHER ACCEPTABLE METHOD.

LEGEND

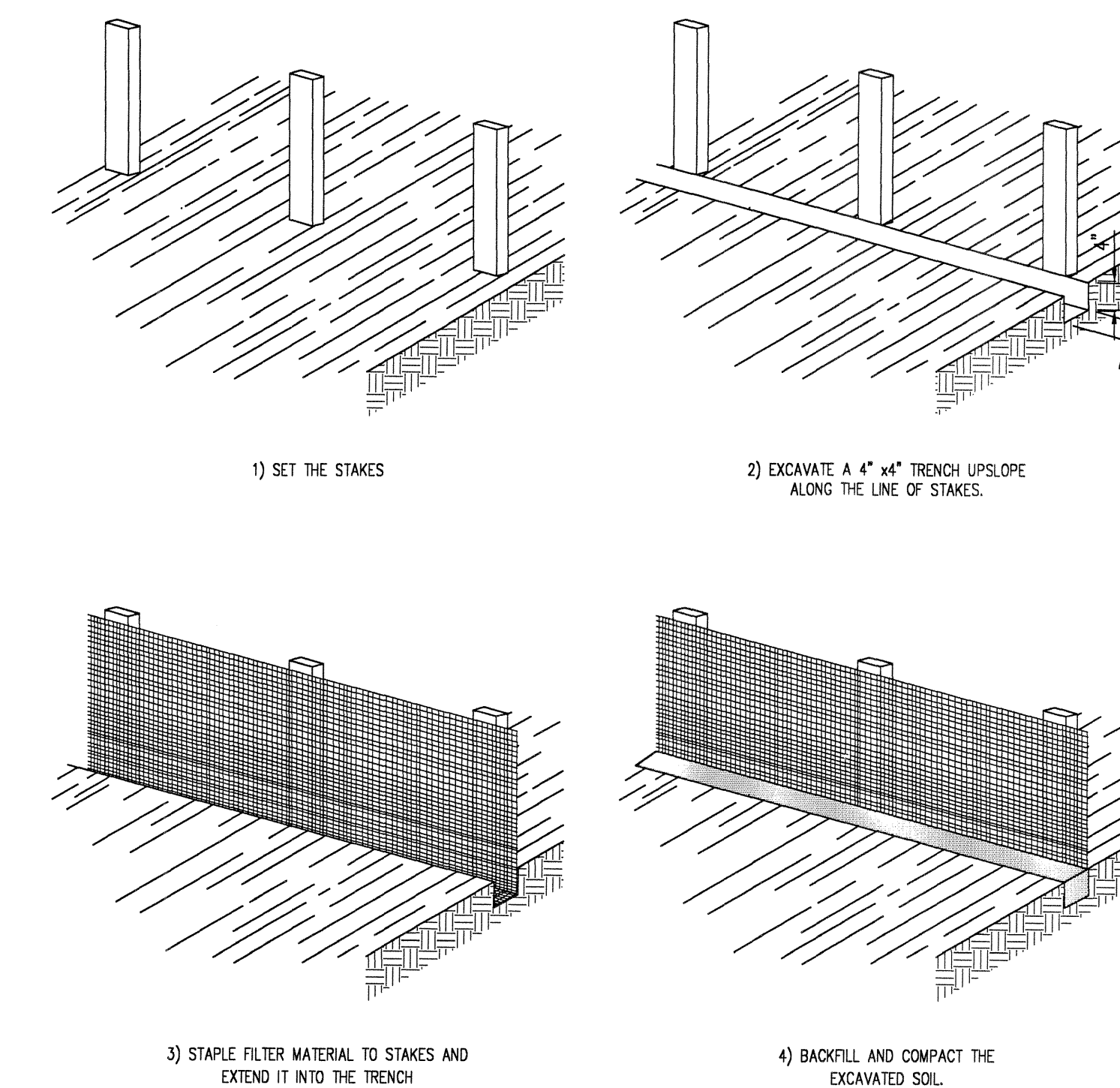
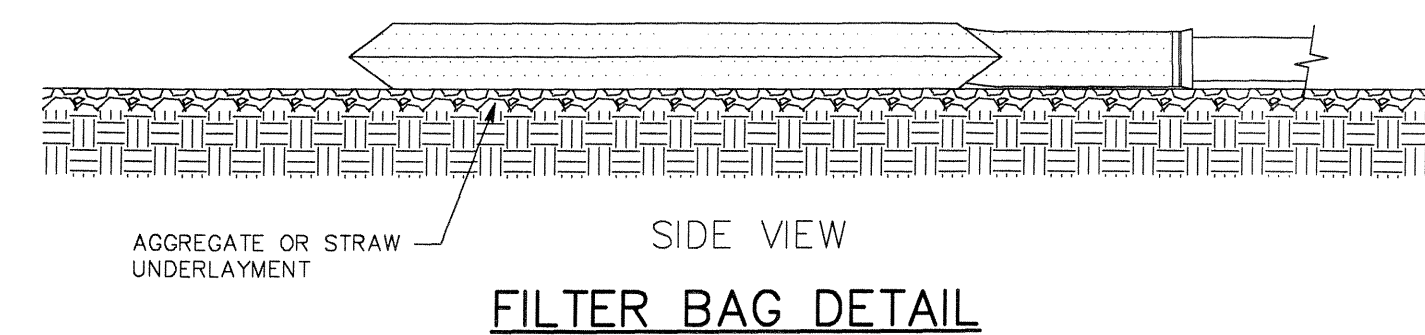
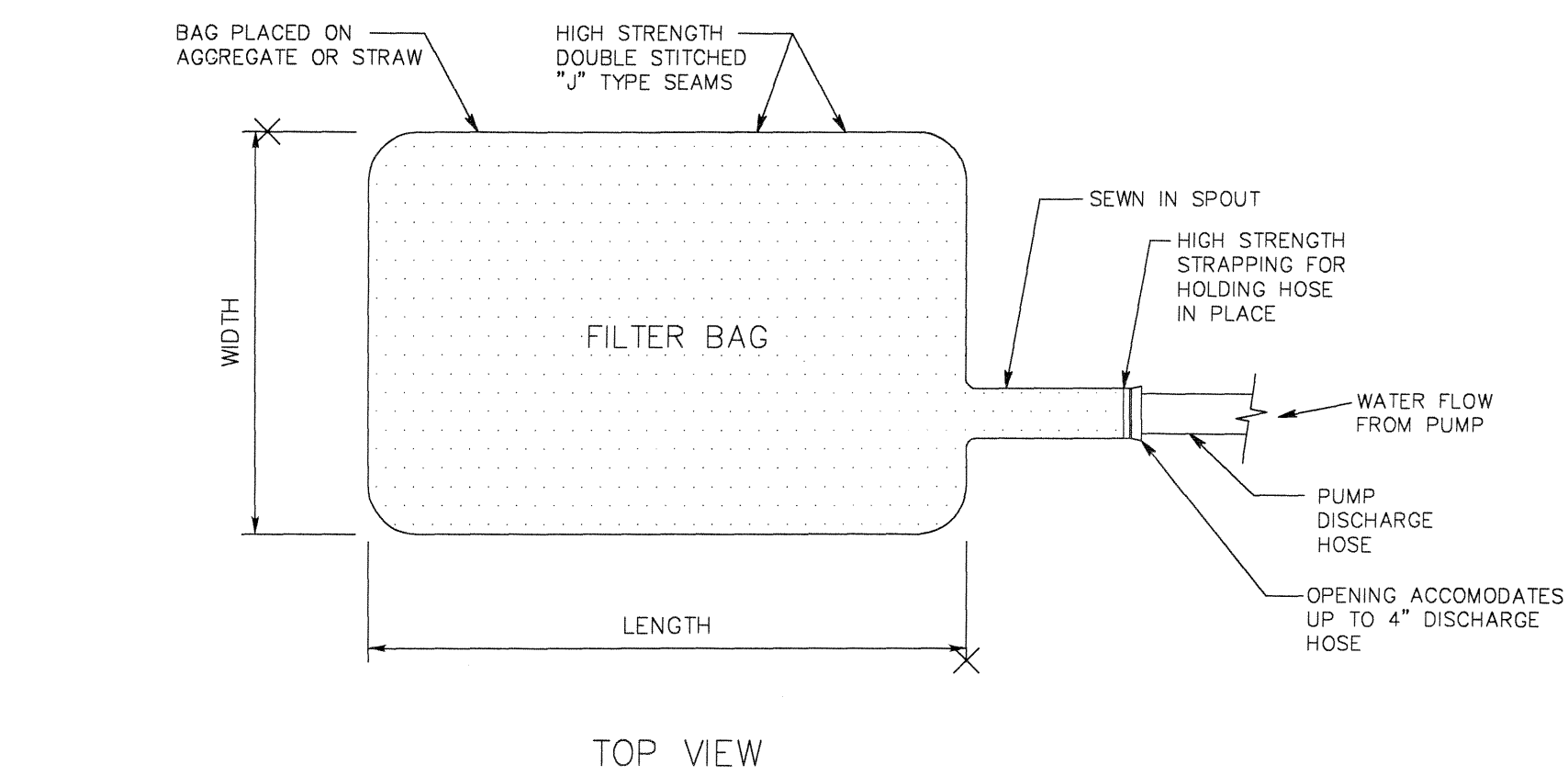
- (PS) PERMANENT SEEDING
 (P) PERVIOUS PAVEMENT (STONE)
 (CE) CONSTRUCTION ENTRANCE
 —x— SILT FENCE



CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE---USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH---AS REQUIRED.
3. THICKNESS---NOT LESS THAN SIX (6) INCHES.
4. WIDTH---TWENTY (20) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH---WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER---ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE---THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING---WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING SERVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ONCE EVERY 7 DAYS.

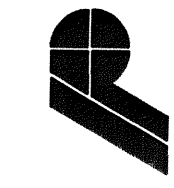
STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION OF A FILTER BARRIER

SCALE: NONE

CONTRACT "A"&"B"



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CSO IMPROVEMENTS CSO BASIN AND PUMP STATION VILLAGE OF OAK HARBOR,

**SWPPP
PLAN**

DRAWN BY	CHECKED BY
SPJ	JMF
REVISION	

SWP3-2

— OF —
3
JOB NUMBER
1590-120