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STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT

RUTLAND STATE AIRPORT

WATER AND SEWER FACILITIES

PROJECT
LOCATION

ITEM No.	ITEM DESCRIPTION	QUANTITY	UNIT
201.15	REMOVING SMALL TREES	1	EACH
203.31	SAND BORROW	1160	C.Y.
204.20	TRENCH EXCAVATION OF EARTH	5910	C.Y.
204.21	TRENCH EXCAVATION OF ROCK	50	C.Y.
204.25	STRUCTURE EXCAVATION	250	C.Y.
204.30	GRANULAR BACKFILL FOR STRUCTURES	30	C.Y.
301.35	SUBBASE OF DENSE GRADED CRUSHED STONE	40	C.Y.
627.35	HYDROPNEUMATIC PUMP SYSTEM	1	L.S.
628.28	3" DUCTILE IRON PIPE, CEMENT-LINED, CLASS 52	120	L.F.
628.28	4" DUCTILE IRON PIPE, CEMENT-LINED, CLASS 52	10	L.F.
628.28	6" DUCTILE IRON PIPE, CEMENT-LINED, CLASS 52	22	L.F.
628.35	3" POLYVINYL CHLORIDE (PVC) PIPE, SDR 26	6800	L.F.
628.35	6" POLYVINYL CHLORIDE (PVC) PIPE, SDR 35	460	L.F.
628.42	TRANSFER EXISTING SYSTEM TO NEW SYSTEM	1	L.S.
628.43	AUTOMATIC AIR RELEASE	1	L.S.
628.44	6" GRAVITY SEWER CLEANOUTS	4	EACH
628.455	3" FORCE MAIN CLEANOUTS	12	EACH
628.50	SEWAGE PUMPING STATION	1	L.S.
628.65	3" GATE VALVE WITH VALVE BOX - SANITARY SEWER	12	EACH
629.23	1 INCH SEAMLESS COPPER WATER TUBE	160	L.F.
629.25	EXTENSION SERVICE BOX AND CURB STOP (1 INCH)	1	EACH

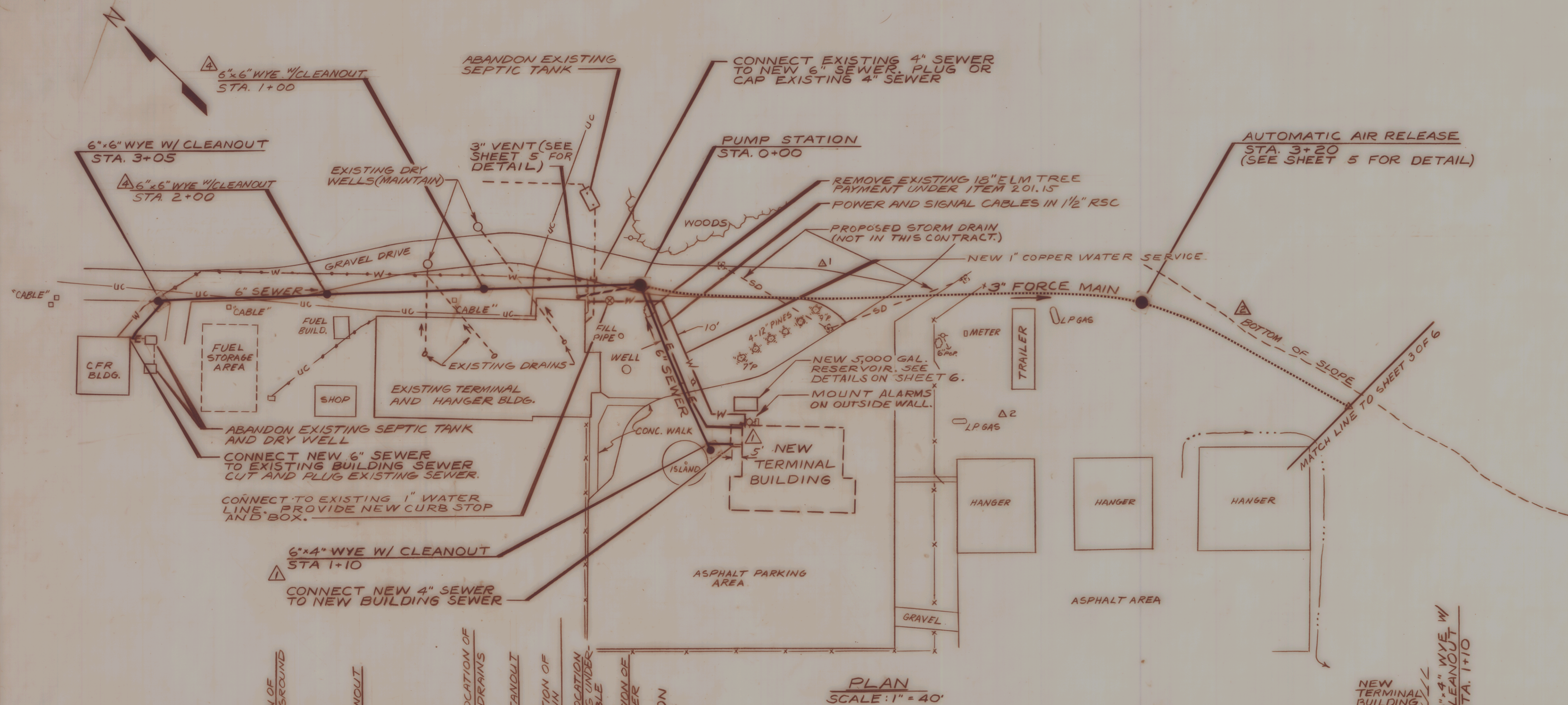
CONVENTIONAL SIGNS

COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	—○—○—
POINT OF ACCESS	X
FENCE LINE	—x—x—
STONE WALL	—x—x—
TRAVELED WAY	—x—x—
GUARD RAIL	—x—x—
RAILROAD	—x—x—
SURVEY LINE	—x—x—
CULVERT	—x—x—
POWER POLE	—x—x—
TELEPHONE POLE	—x—x—
TREES	—x—x—
CONTROL OF ACCESS	—x—x—
PROPERTY LINE	—x—x—
R.O.W. TAKING LINE	—x—x—
SLOPE RIGHTS	—x—x—
TOP OF CUT	—x—x—
TOE OF SLOPE	—x—x—

DATUM	
VERTICAL	NGVD
HORIZONTAL	

These plans are subject to such engineering changes as may be required by the Federal Highway Administration or the Director of Engineering and Construction.

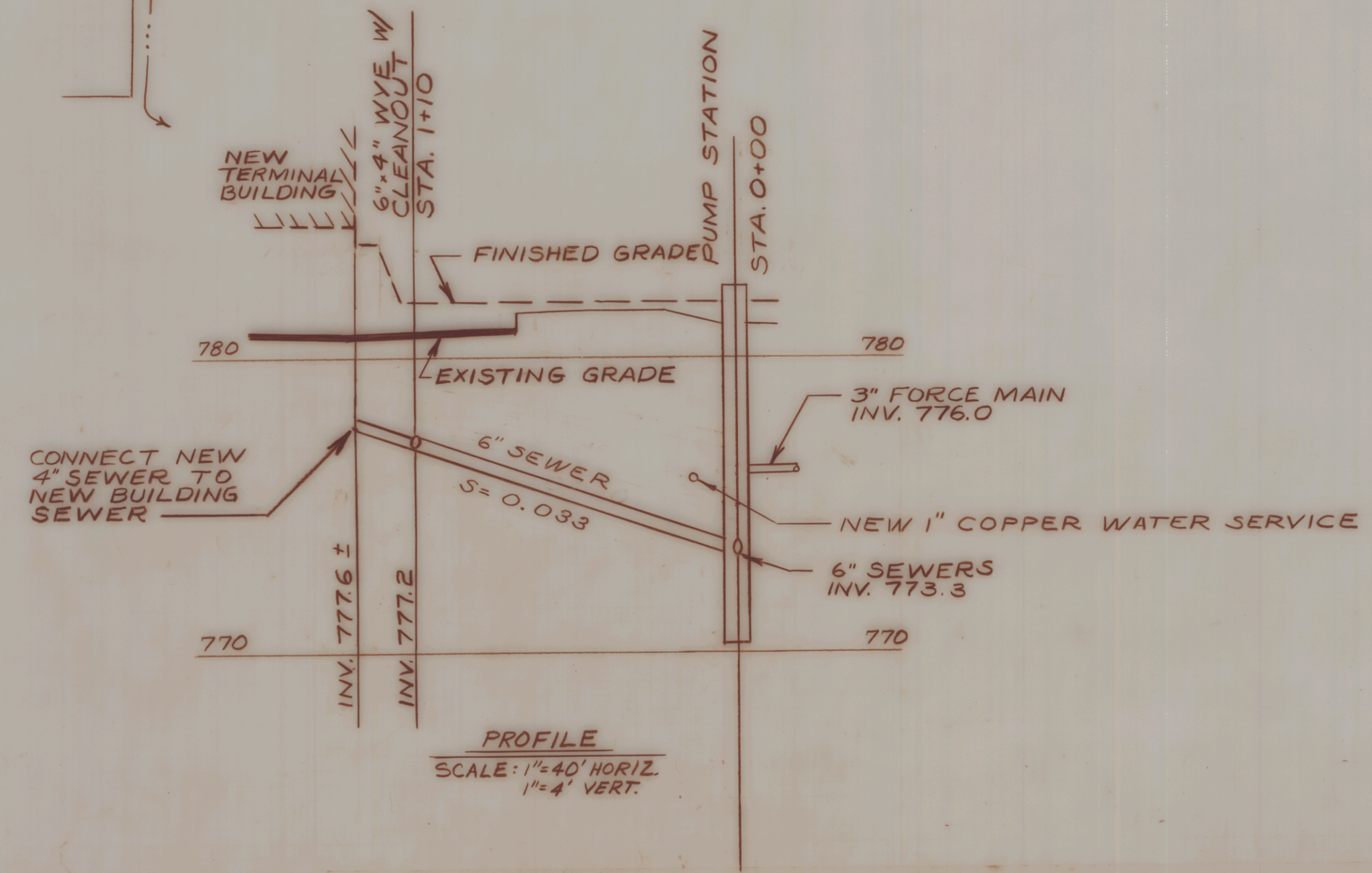
Construction is to be carried on in accordance with these plans and the Standard Specifications for Highway and Bridge Construction dated March, 1976, as approved by the Federal Highway Administration on October 27, 1976 for use on this project, including all subsequent revisions and such revised specifications and special provisions as are incorporated in these plans.



PLAN
SCALE: 1" = 40'



PROFILE
SCALE: 1" = 40' HORIZ.
1" = 4' VERT.



PROFILE
SCALE: 1" = 40' HORIZ.
1" = 4' VERT.

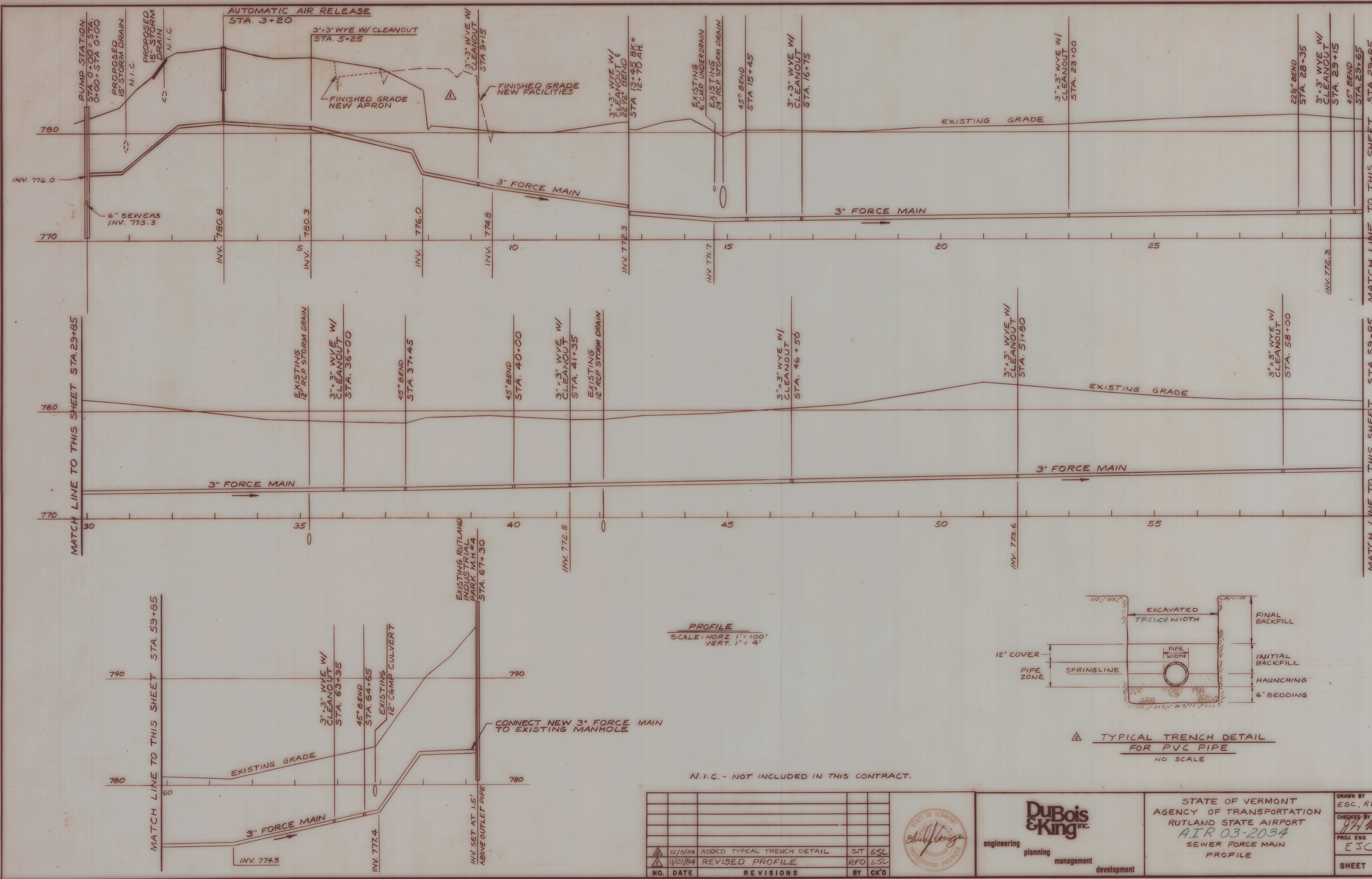
NO.	DATE	REVISIONS	BY	CK'D
1	11/1/85	ADDED CLEANOUTS	JH/ESL	
2	12/5/84	ADDED LEGEND	SJT/ESL	
3	11/21/84	REMOVED CLEANOUT	RFO/ESL	
4	10/2/84	MISCELLANEOUS REVISIONS	JH/ESL	



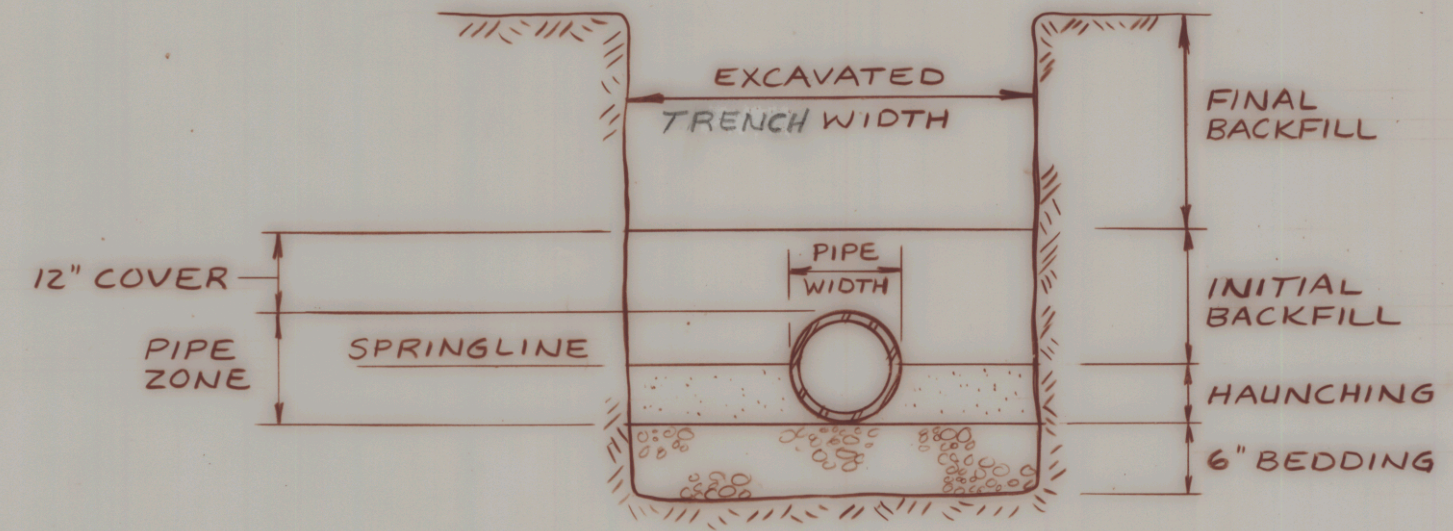
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engineering planning management development

STATE OF VERMONT
AGENCY OF TRANSPORTATION
RUTLAND STATE AIRPORT
AIR 03-2034
SEWER
PLAN AND PROFILE

DRAWN BY ECS/AFO	DATE 6/21/84
CHECKED BY JH/ESL	PROJ. NO. 45803
PROJ. ENG. ESL	DRAW. NO. 5354
SHEET 2 OF 6	



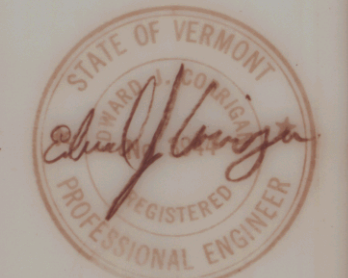
PROFILE
SCALE: HORIZ 1" = 100'
VERT. 1" = 4'



△ TYPICAL TRENCH DETAIL
FOR PVC PIPE
NO SCALE

N.I.C. - NOT INCLUDED IN THIS CONTRACT.

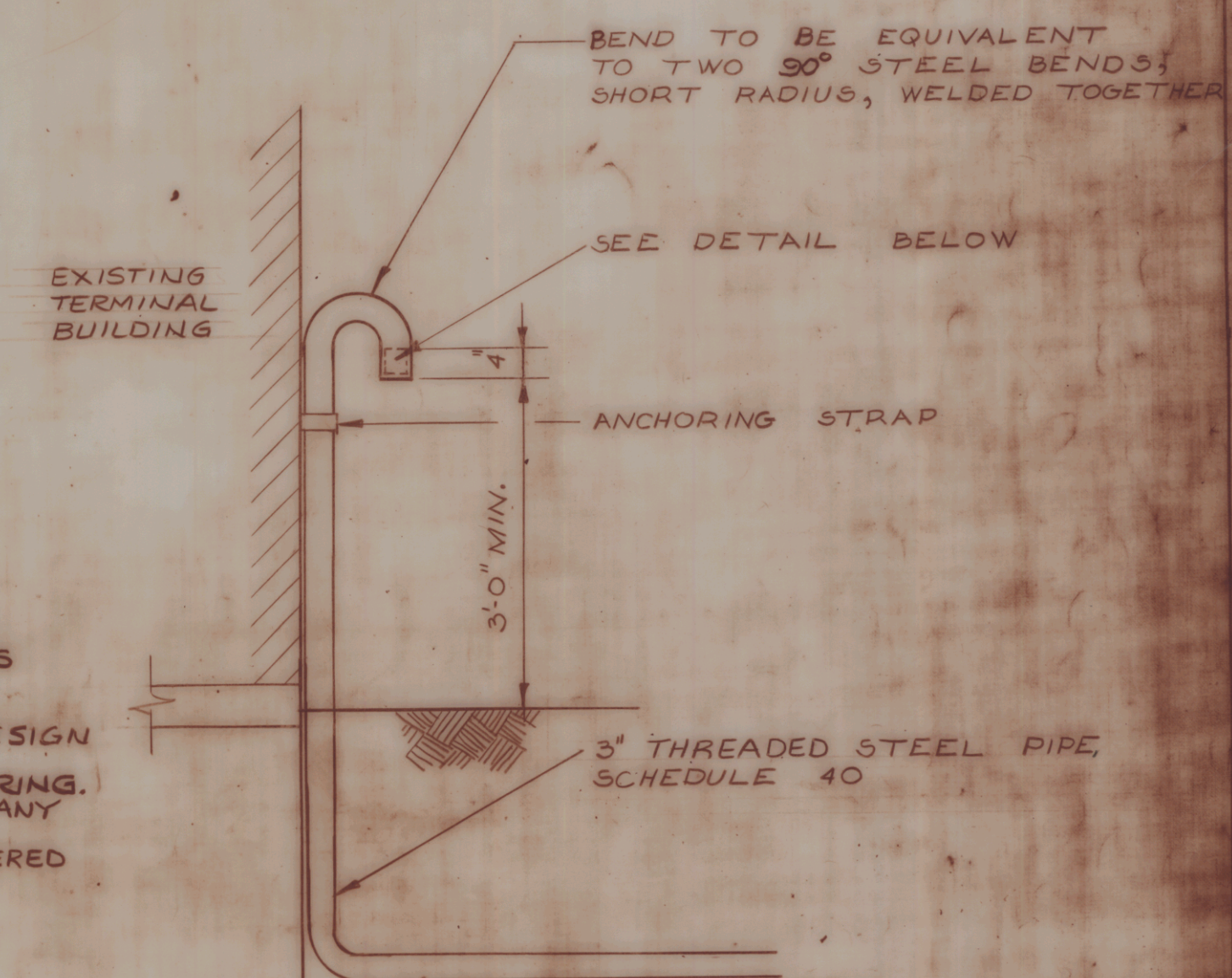
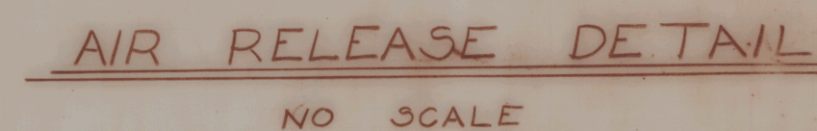
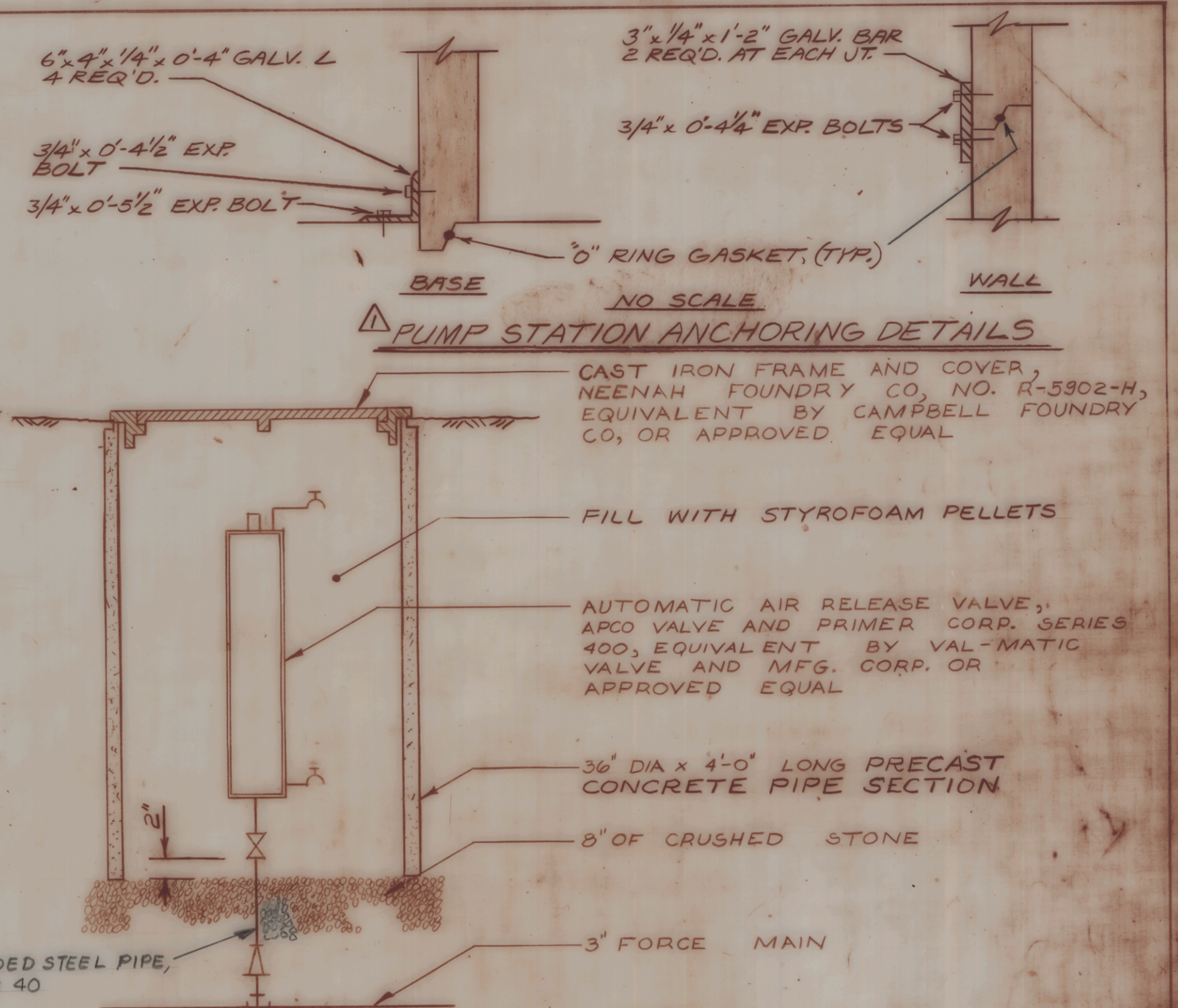
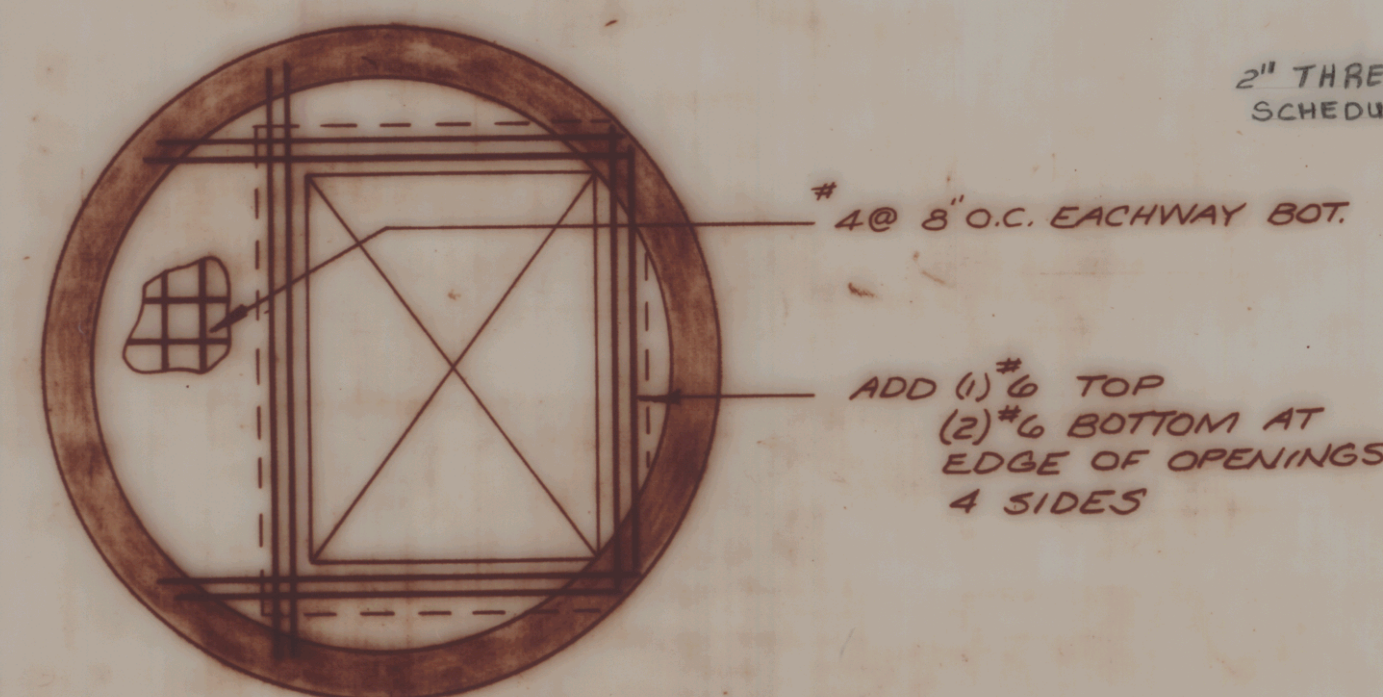
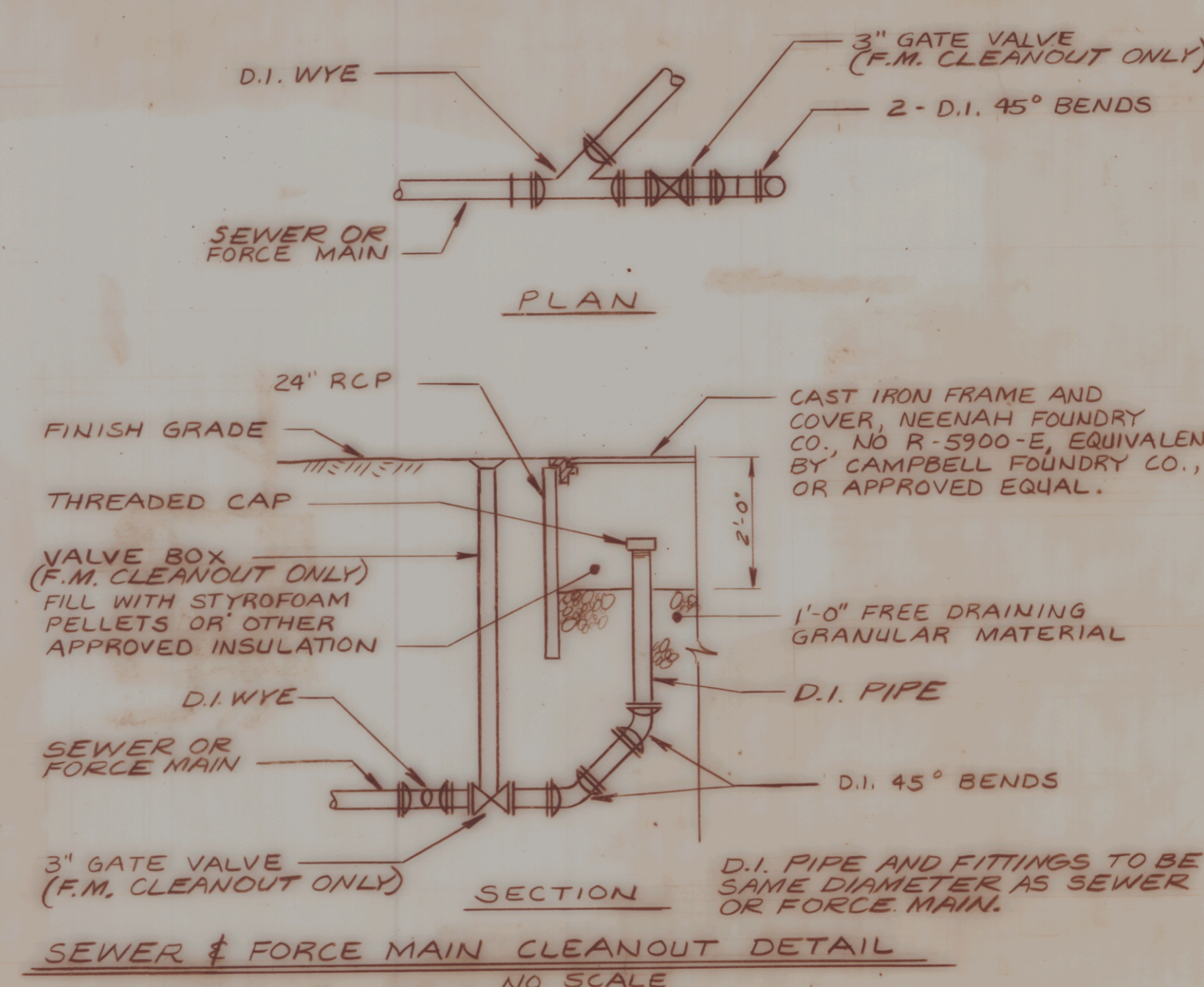
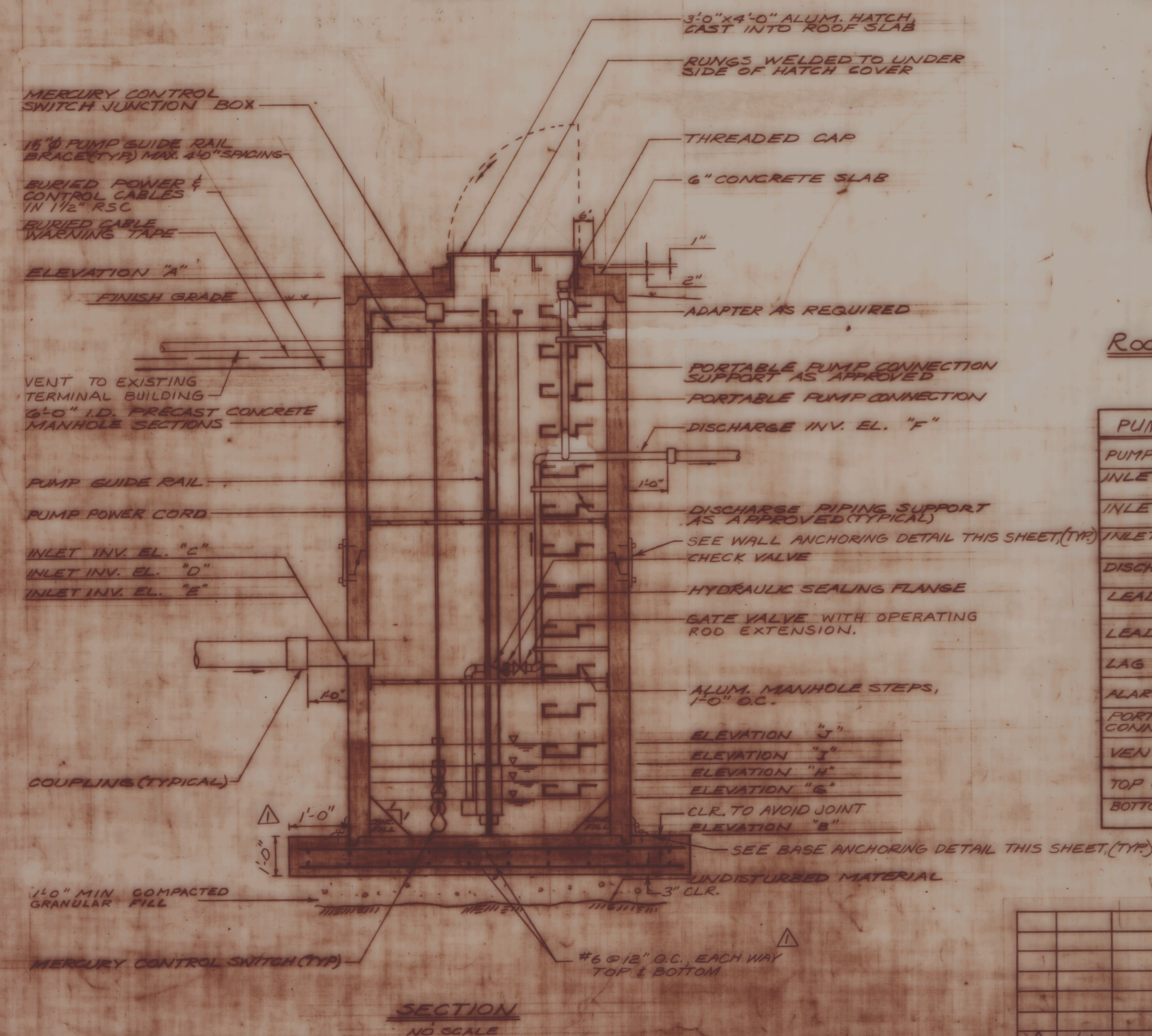
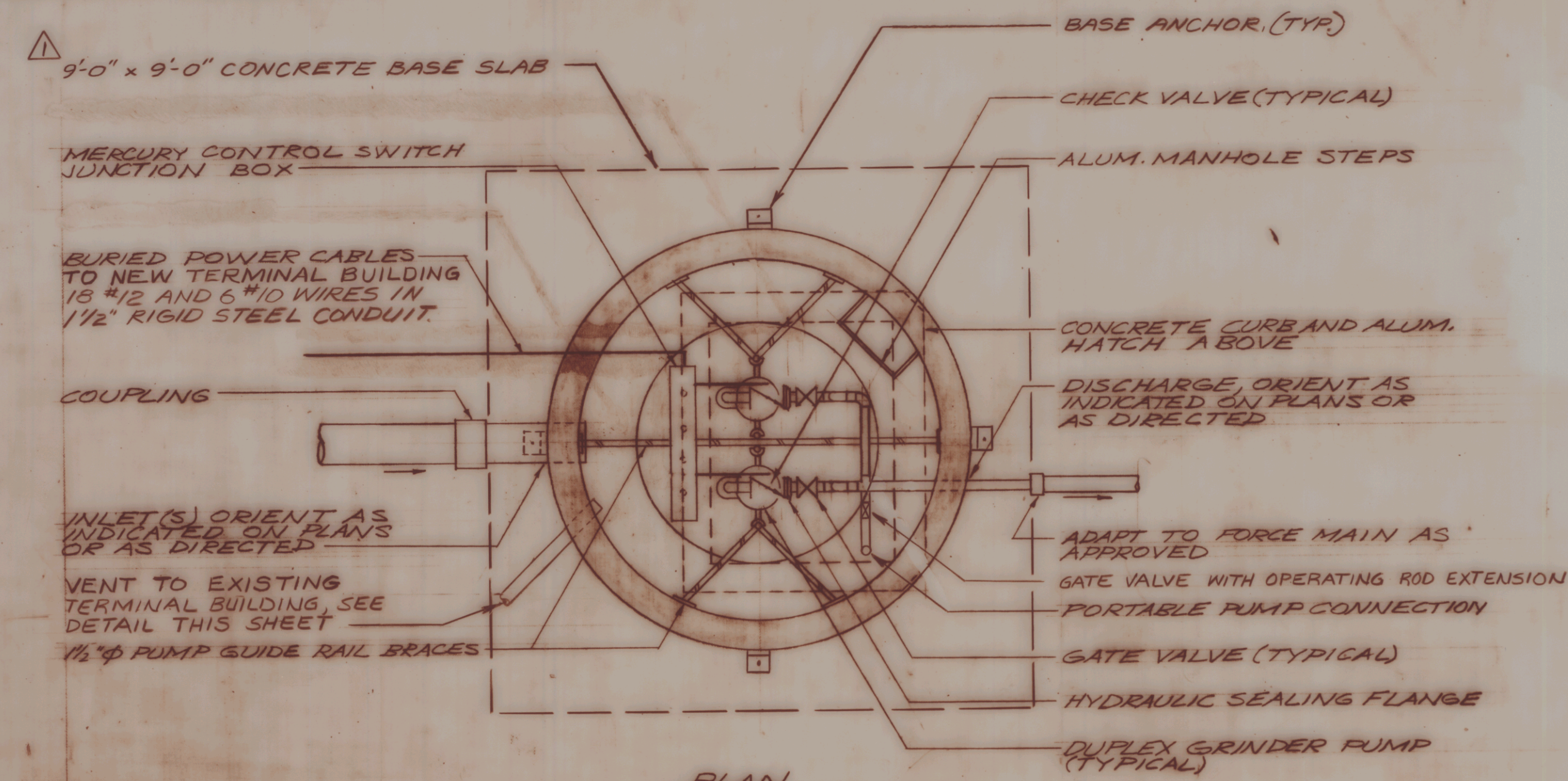
NO.	DATE	REVISIONS	BY	CK'D
1	12/5/84	ADDED TYPICAL TRENCH DETAIL	SJT	ESC
2	11/21/84	REVISED PROFILE	RFO	ESC



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STATE OF VERMONT
AGENCY OF TRANSPORTATION
RUTLAND STATE AIRPORT
AIR 03-2034
SEWER FORCE MAIN
PROFILE

DRAWN BY
ESC, RFO
CHECKED BY
JH
PROJ. ENG.
ESC
SHEET



PUMP STATION SCHEDULE	
PUMPING STATION LOCATION	
INLET - SIZE AND INVERT EL. "C"	773.3
INLET - SIZE AND INVERT EL. "D"	773.3
INLET - SIZE AND INVERT EL. "E"	NA
DISCHARGE - SIZE AND INVERT EL. "F"	776.0
LEAD/LAG PUMPS OFF EL. "G"	771.3
LEAD PUMP ON - EL. "H"	772.8
LAG PUMP ON - EL. "I"	773.3
ALARM ON - EL. "J"	773.3
PORTABLE PUMP CONNECTION SIZE	2 1/2"
VENT DIAMETER	3"
TOP OF SLAB - EL. "A"	762.5
BOTTOM OF WET WELL EL. "B"	770.3

- NOTES**
- 1) ALL CONCRETE SHALL BE NORMAL WEIGHT HAVING A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
 - 2) PRECAST CONCRETE SECTIONS SHALL CONFORM TO ASTM C478.
 - 3) IT IS ANTICIPATED THAT DEWATERING AND SHEETING AND SHORING SYSTEMS WILL BE REQUIRED TO FACILITATE CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN, FURNISH AND INSTALL ALL SUCH DEWATERING AND SHEETING AND SHORING. THE DESIGN AND PREPARATION OF ANY NECESSARY DRAWINGS SHALL BE PERFORMED BY A QUALIFIED REGISTERED PROFESSIONAL ENGINEER.

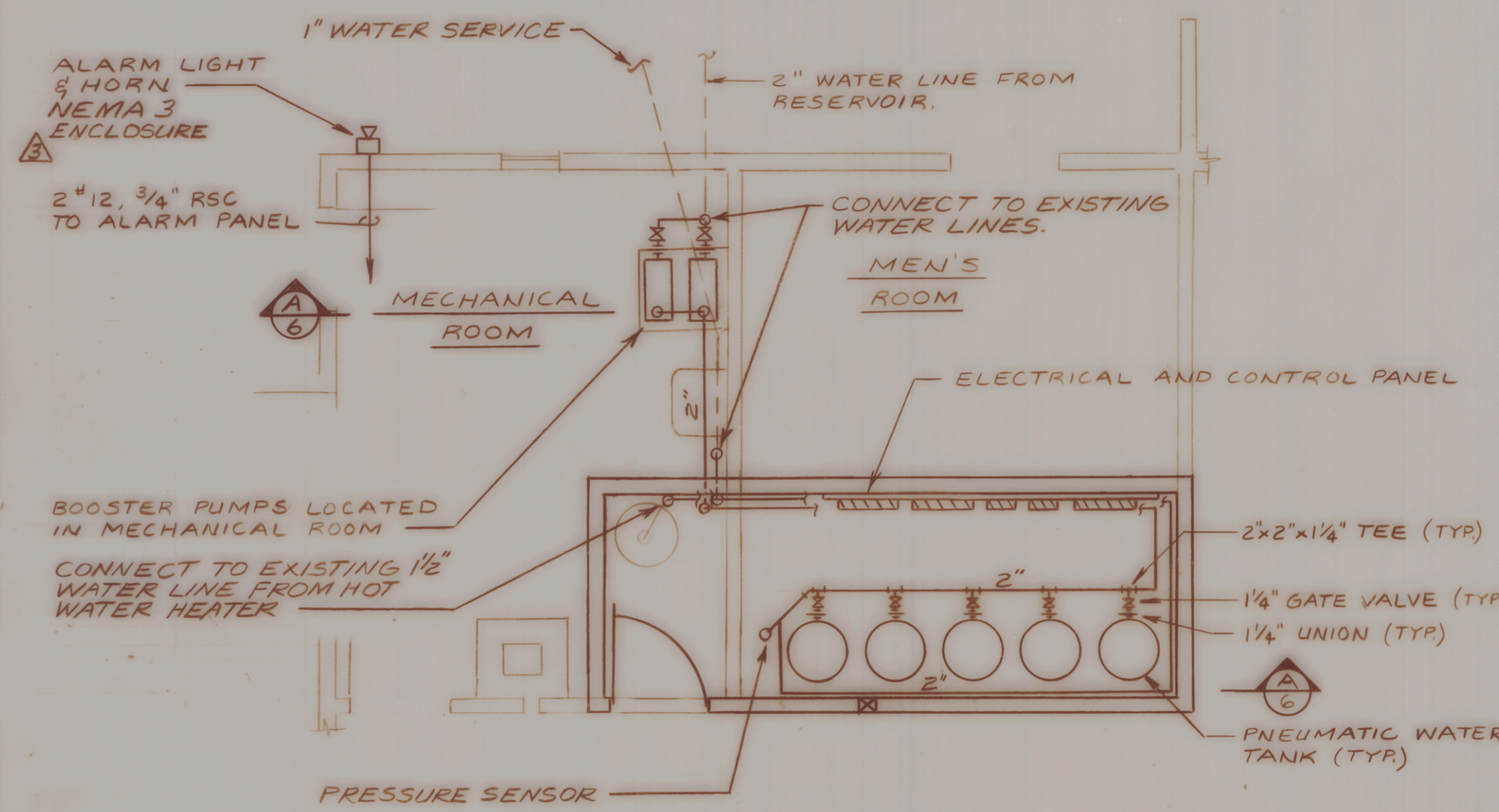
NO.	DATE	REVISIONS	BY	CHK'D
1	10/9/84	ADDED P.S. BASE DETAILS		



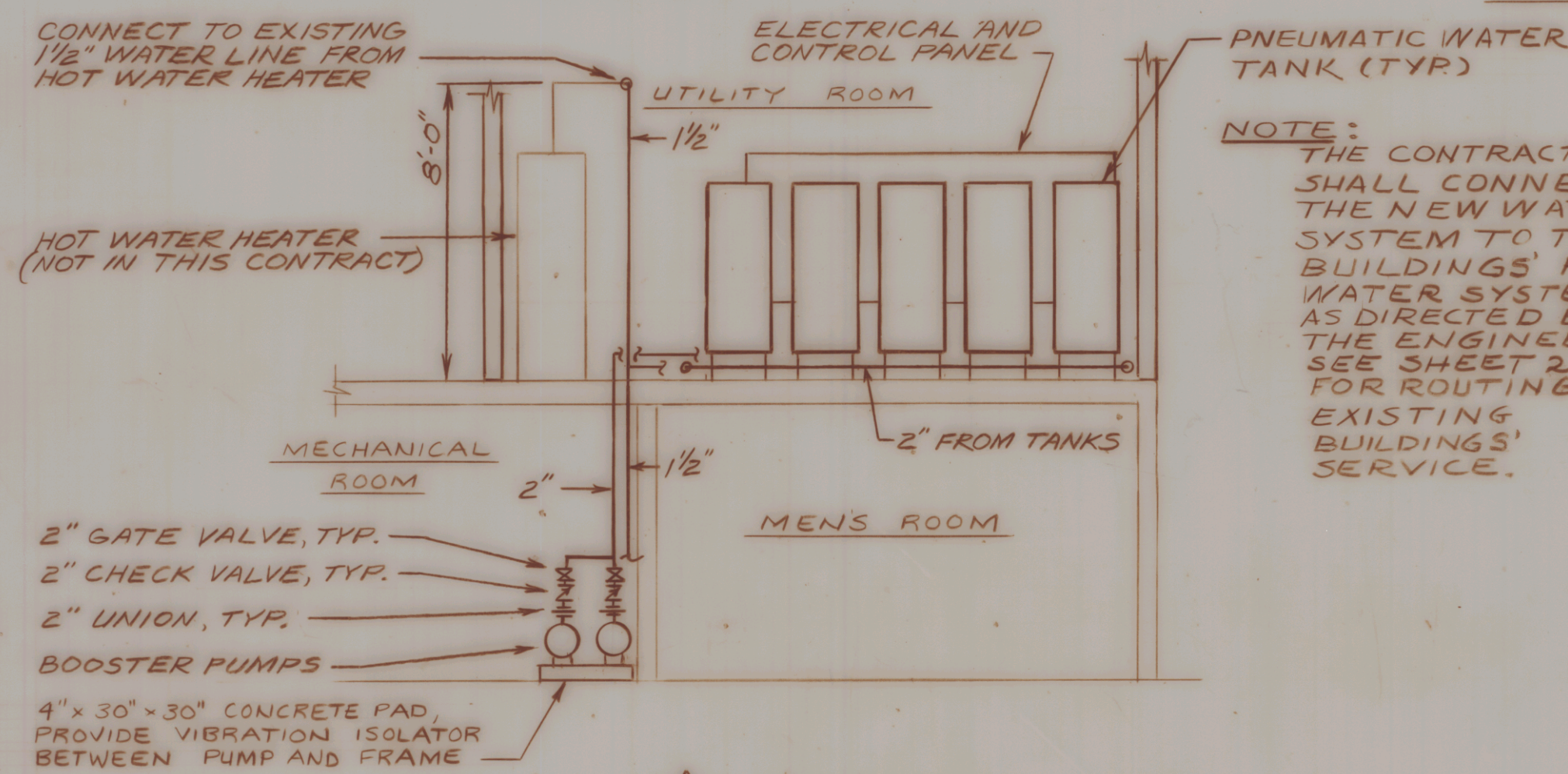
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STATE OF VERMONT
AGENCY OF TRANSPORTATION
RUTLAND STATE AIRPORT
AIR 03-2034
SEWER PUMP STATION
PLANS AND DETAILS

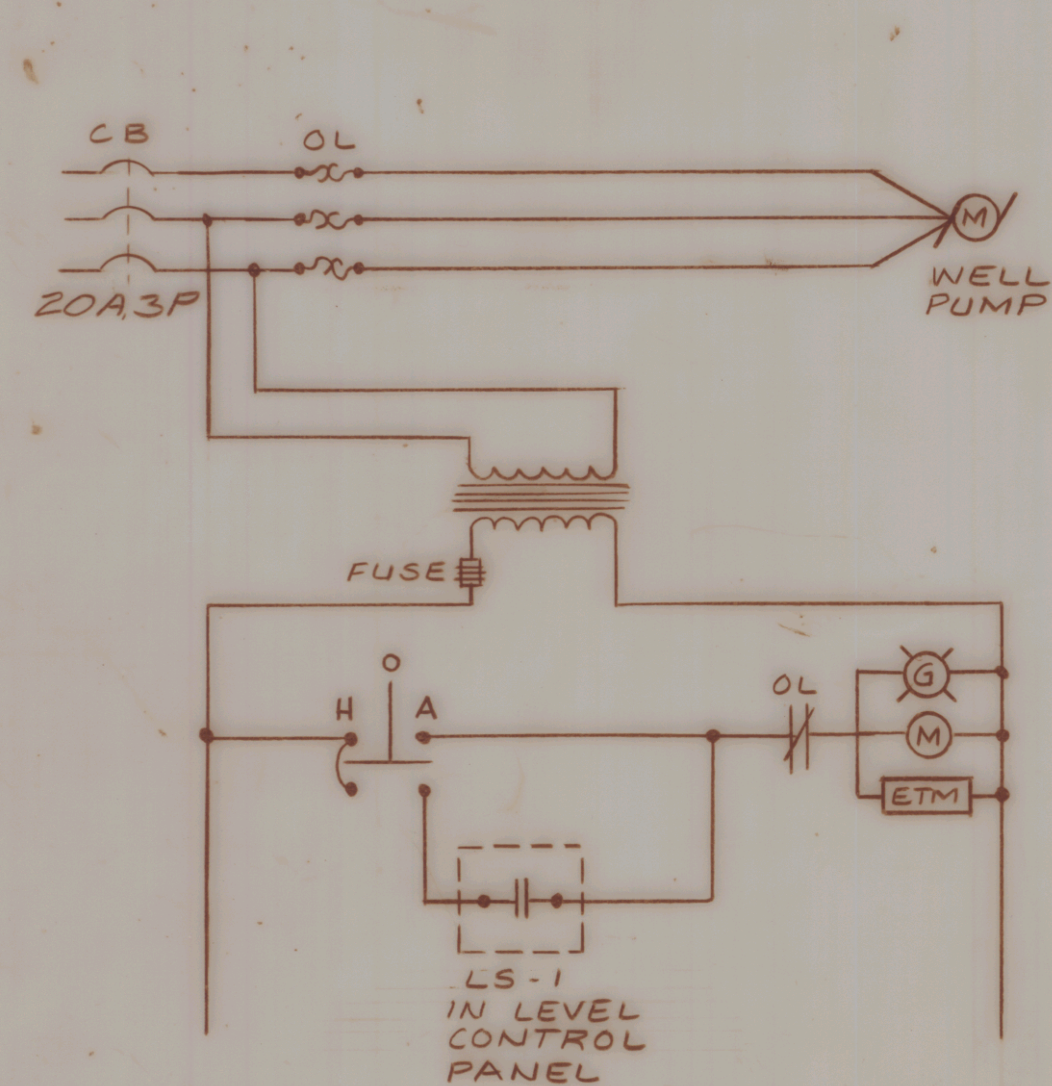
DRAWN BY ELP	DATE JULY 1984
CHECKED BY EJC	PROJ. NO.
PROJ. ENG.	DRAW. NO. 5357
SHEET 5 OF 6	



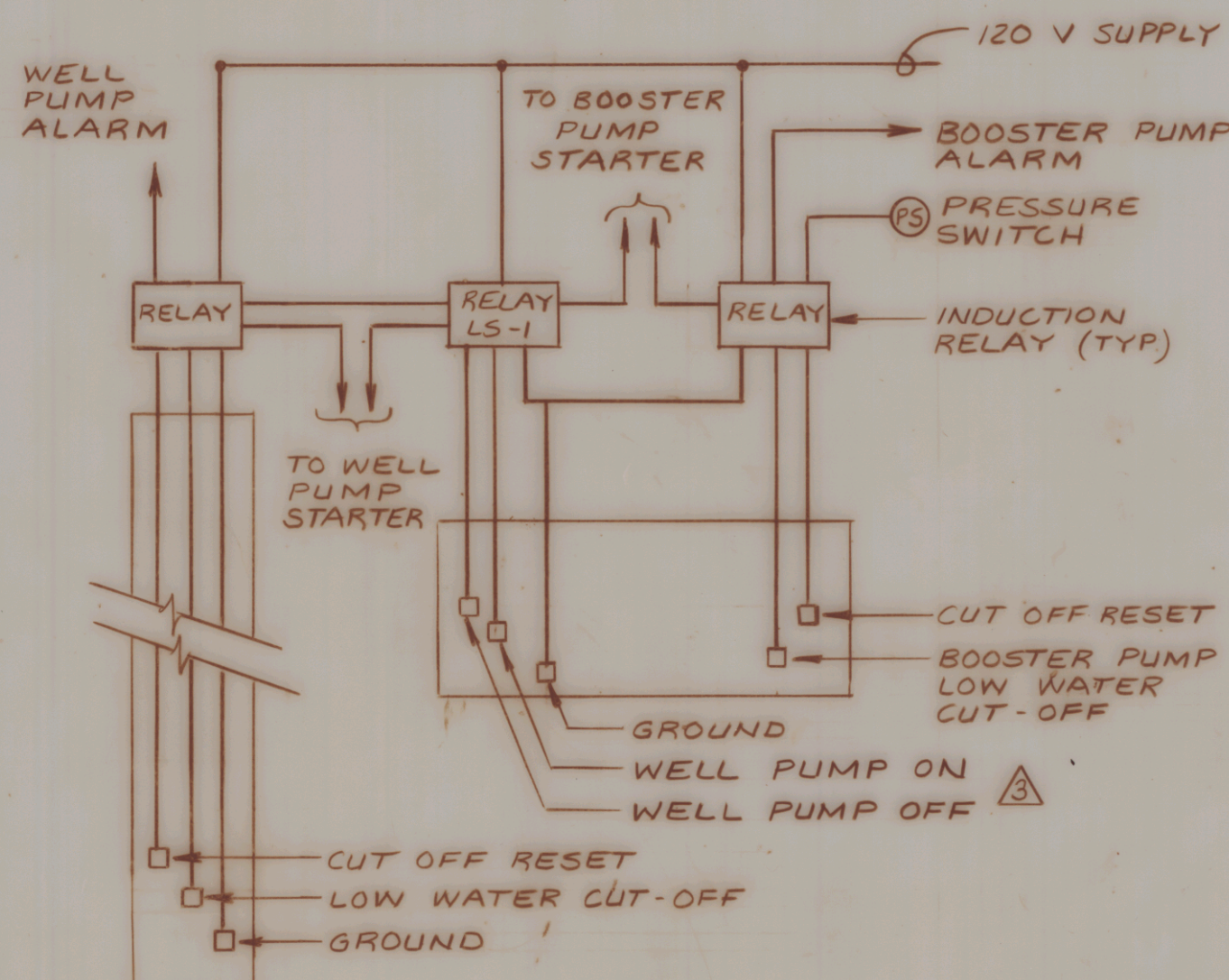
UTILITY ROOM PLAN
SCALE: 1/4" = 1'-0"



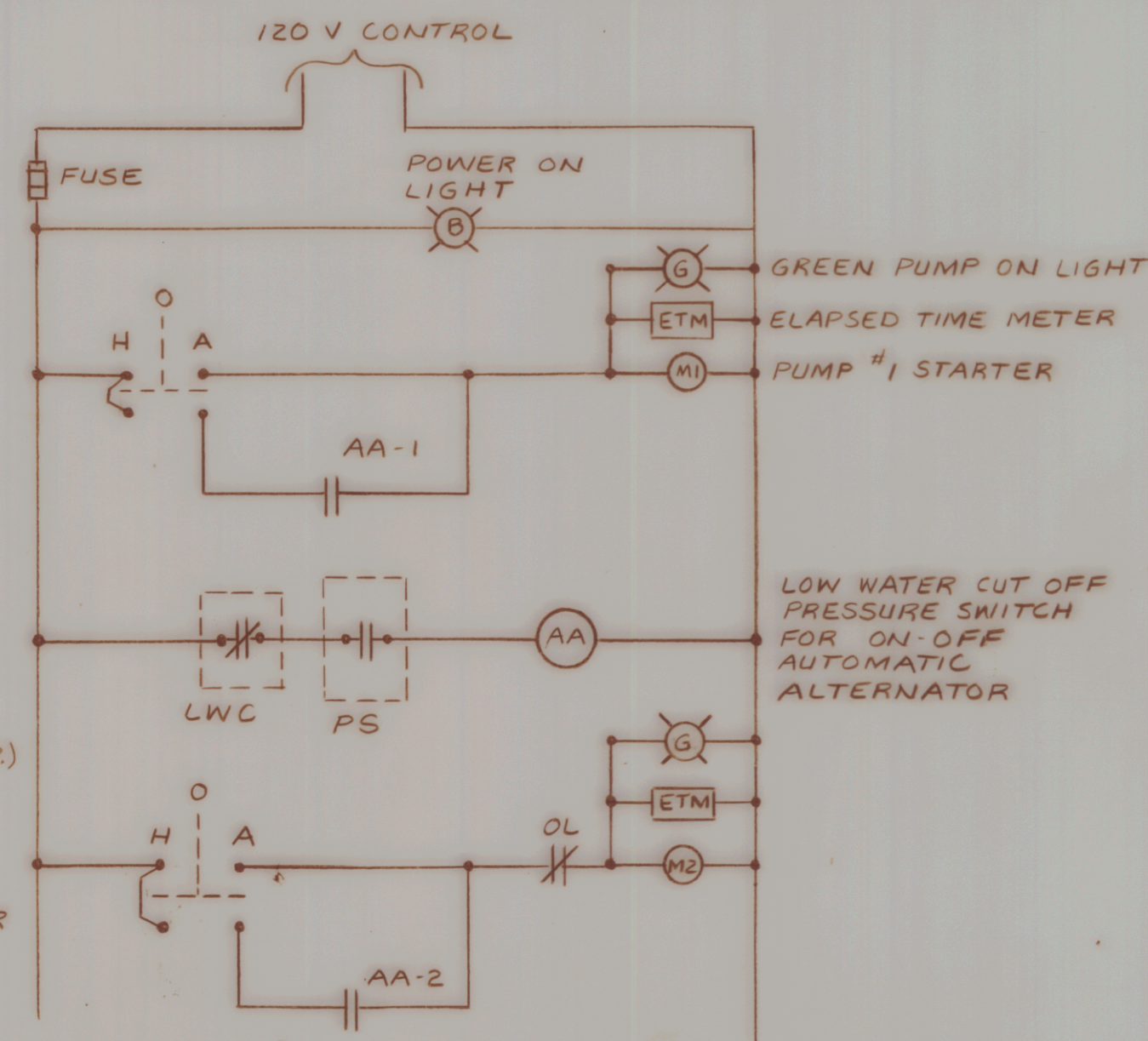
SECTION
SCALE: 1/4" = 1'-0"



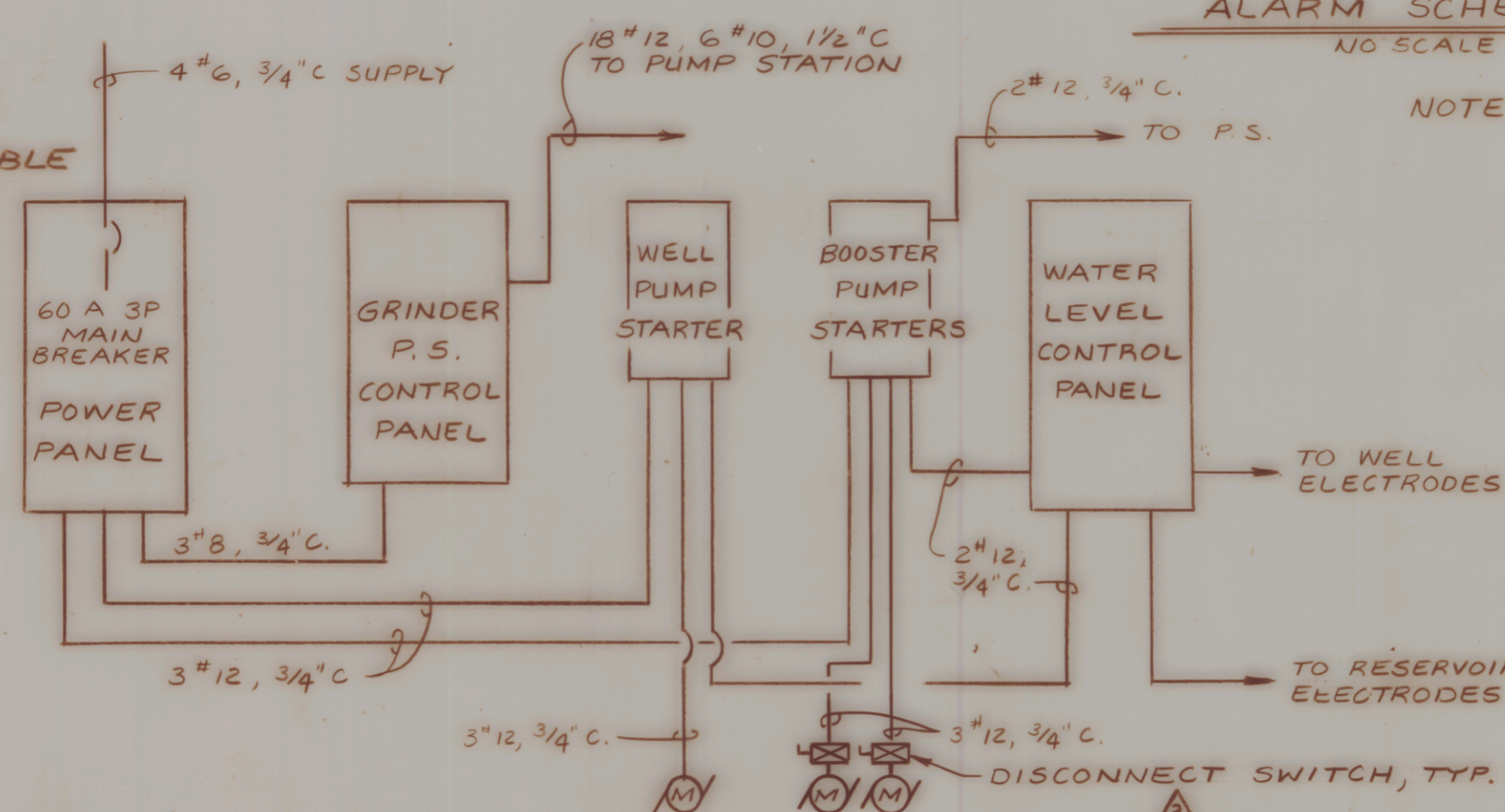
WELL PUMP CONTROL SCHEMATIC
NO SCALE



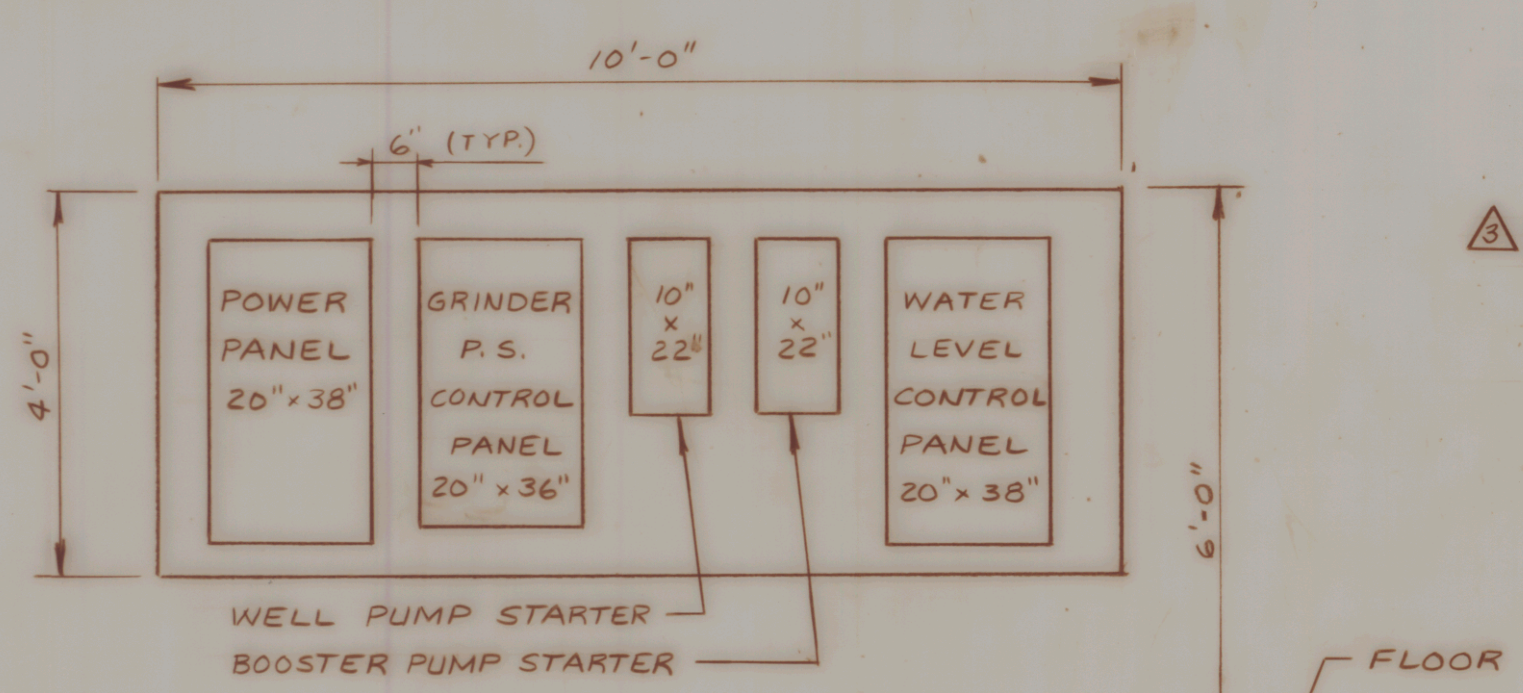
LEVEL CONTROL DIAGRAM
NO SCALE



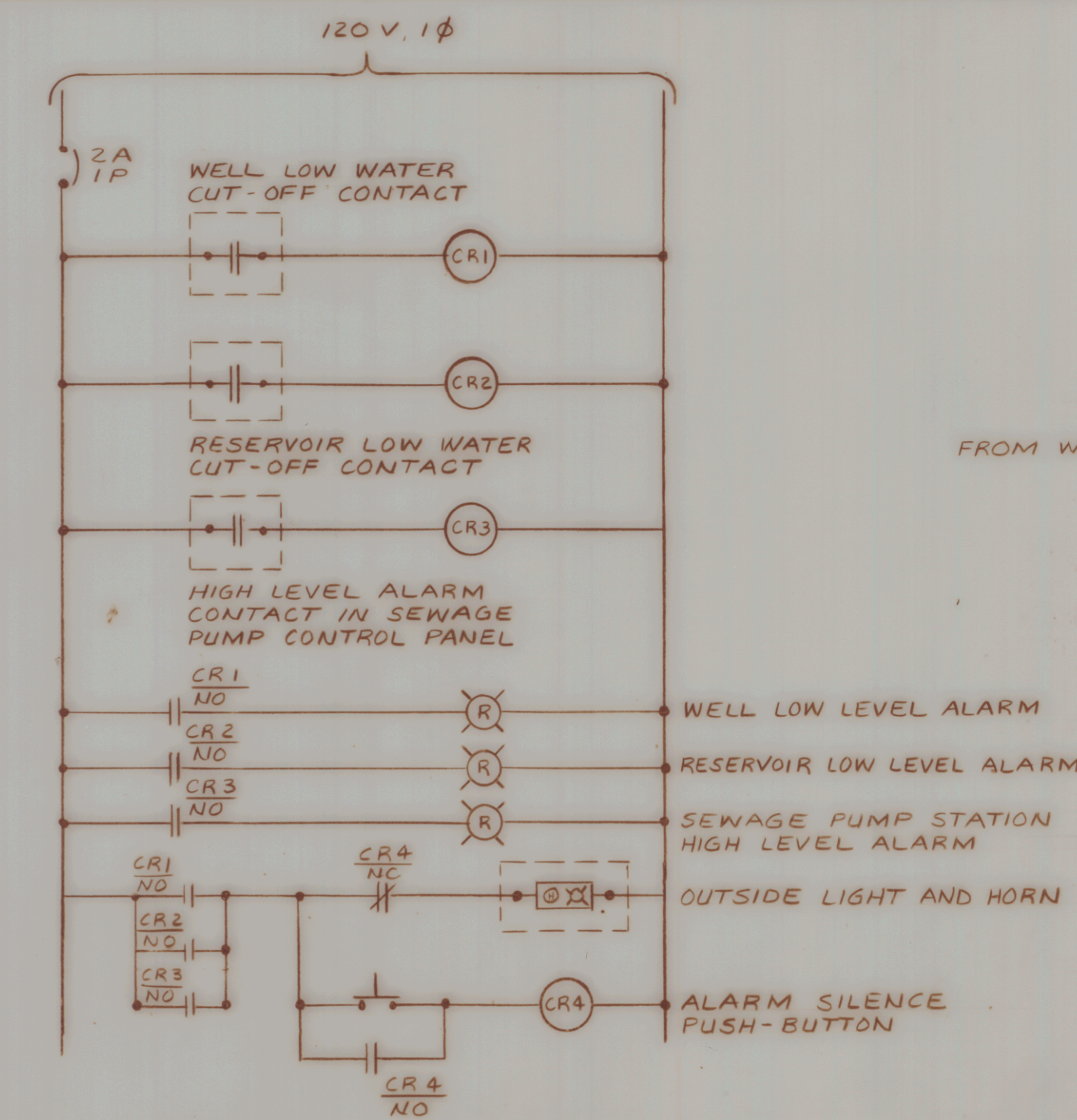
BOOSTER PUMP CONTROL SCHEMATIC
NO SCALE



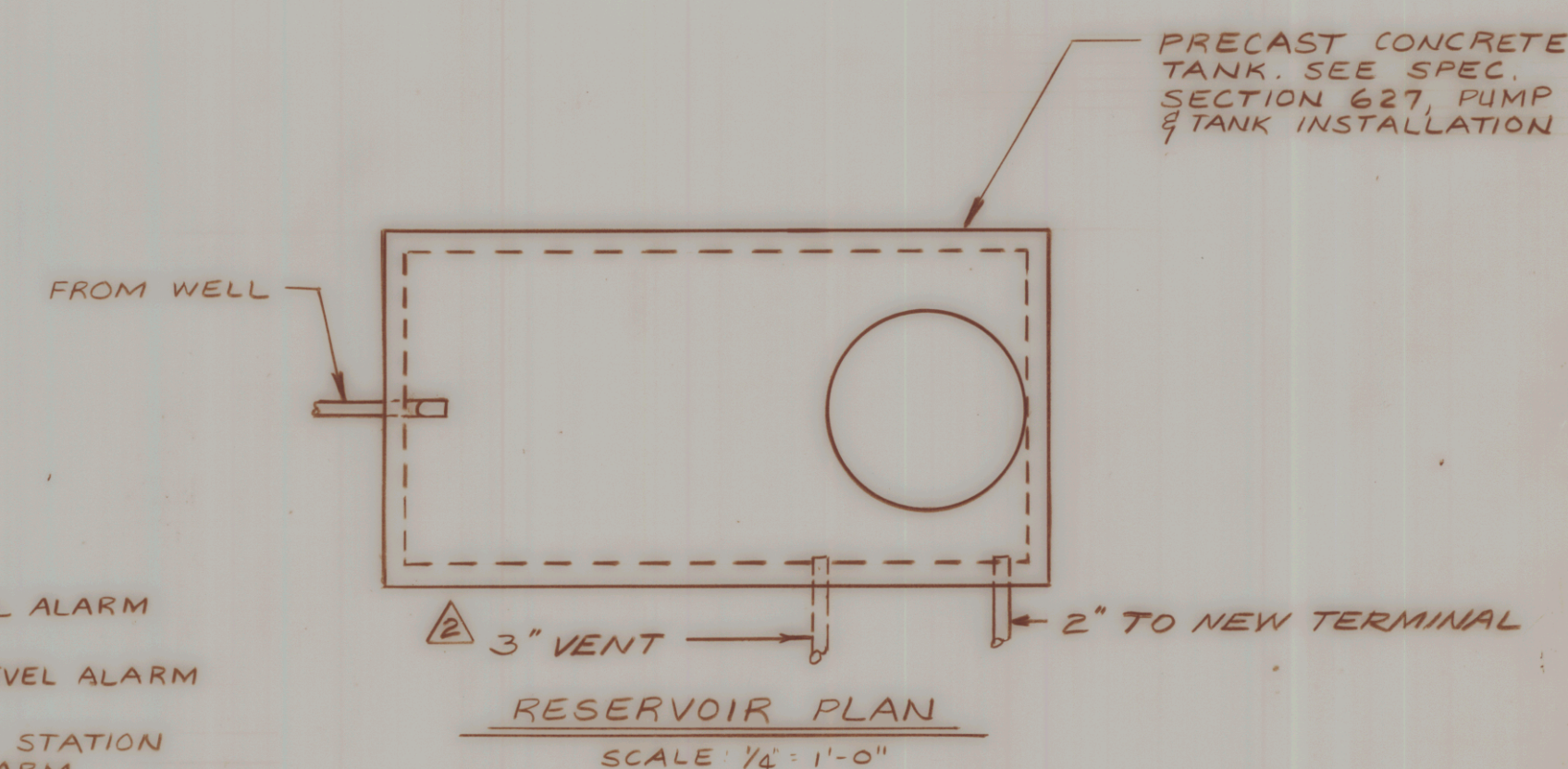
PANEL RISER DIAGRAM
NO SCALE



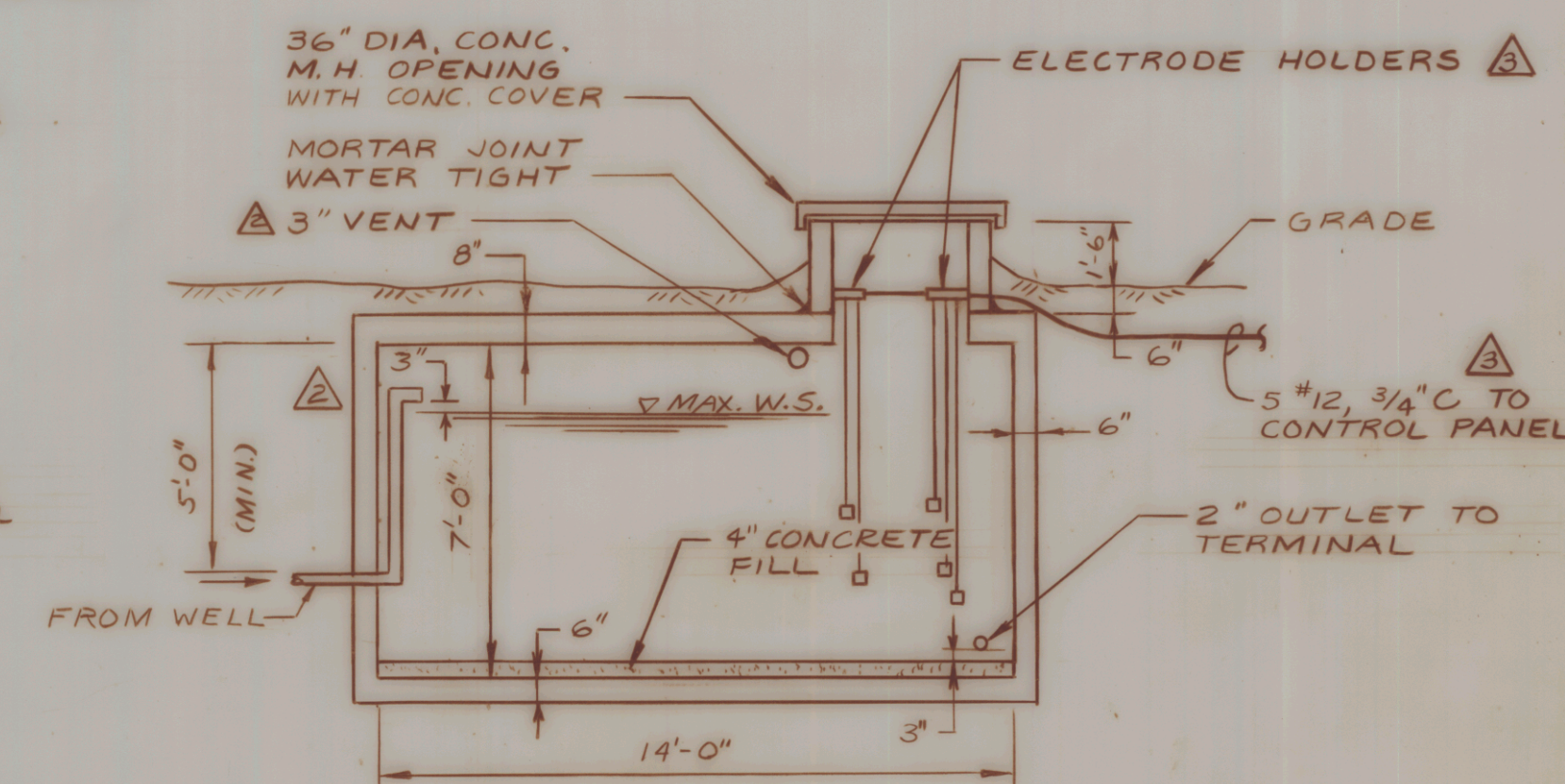
PANEL LAYOUT
NO SCALE



ALARM SCHEMATIC
NO SCALE

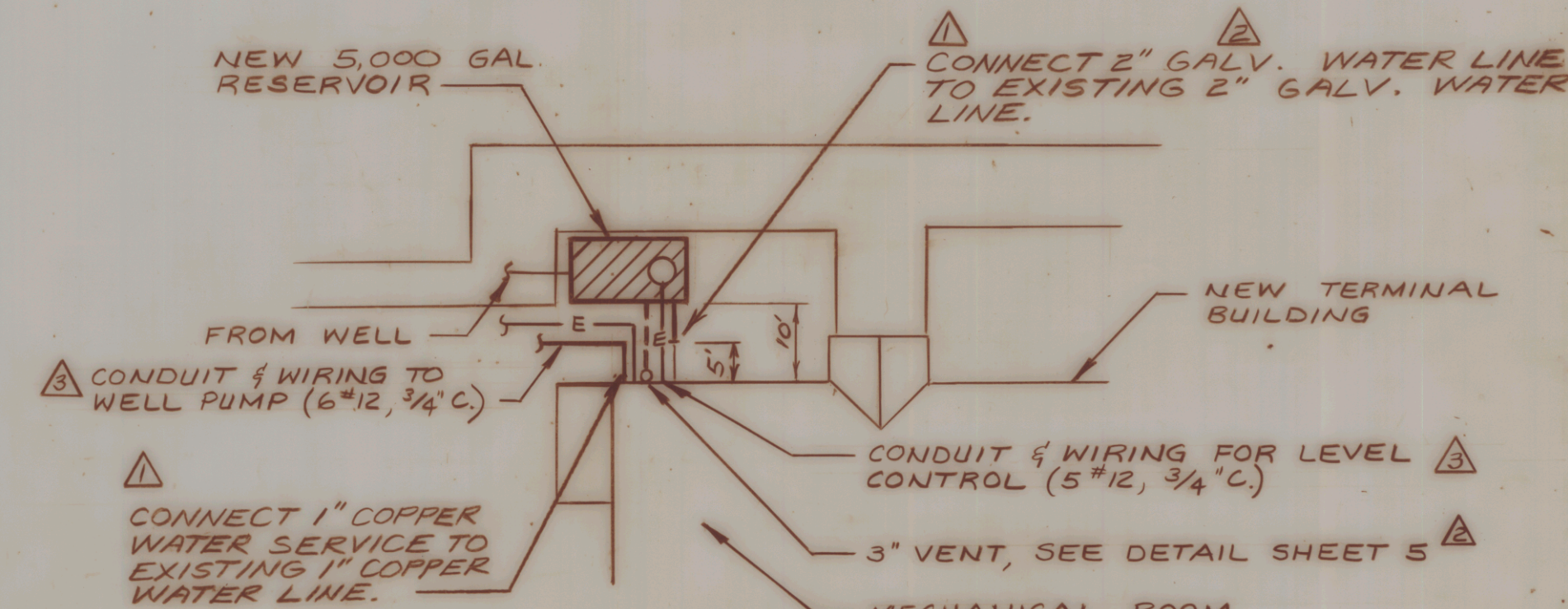


RESERVOIR PLAN
SCALE: 1/4" = 1'-0"



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

- NOTES:
1. PRECAST CONCRETE STRUCTURE TO BE MADE WATERTIGHT
 2. RESERVOIR SHALL BE PLACED ON A MINIMUM OF 1'-0" COMPACTED GRAVEL BASE WITH GRAVEL BACKFILL TO TOP OF STRUCTURE.



RESERVOIR LOCATION PLAN
SCALE: 1" = 20'

NOTE: ALL WATER PIPING FOR THE RESERVOIR, BOOSTER PUMP SYSTEM, AND THE PNEUMATIC TANKS SHALL BE GALVANIZED STEEL.

NO.	DATE	REVISIONS	BY	CHK'D
1	2/4/85	ADDENDUM NO. 1, MISC. ELEC. REV.	SJT	ESC
2	1/7/85	REV. PIPING, ADDED VENT & NOTES	ESC	ESC
3	10/3/84	REVISED WATER PIPING	ESC	ESC



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STATE OF VERMONT
AGENCY OF TRANSPORTATION
RUTLAND STATE AIRPORT
WATER SYSTEM
PLANS AND DETAILS
FACILITIES, POWER AND
CONTROL SCHEMATICS

Addendum #1 Feb. 7, 1985	
DRAWN BY SJT	DATE JULY 1984
CHECKED BY ESC	PROJ. NO. 45903
PROJ. ENG. ESC	DRAW. NO. 5358
SHEET 6 OF 6	