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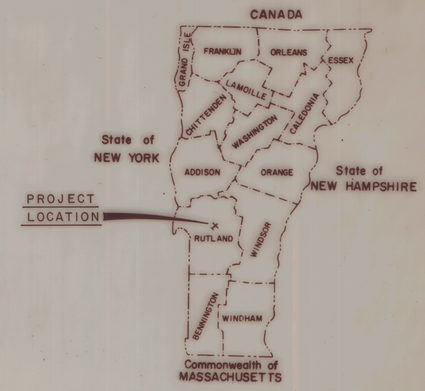
WATER SYSTEM PLANS & DETAILS FACILITIES, POWER & CONTROL SCHEMATICS	6

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT

RUTLAND STATE AIRPORT

WATER AND SEWER FACILITIES

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
FENCE LINE
STONE WALL
TRAVELED WAY
GUARD RAIL
RAILROAD
SURVEY LINE
CULVERT
POWER POLE
TELEPHONE POLE
TREES
CONTROL OF ACCESS
PROPERTY LINE
R.O.W. TAKING LINE
SLOPE RIGHTS
TOP OF CUT
TOE OF SLOPE

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.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED L. J. Gage P.E. DATE 12-17-84
DIRECTOR OF ENGINEERING AND CONSTRUCTION

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

PROJECT AIR № 03-2034

SHEET 1 OF 6 SHEETS

BRUNING 44-131 40592-1

D-10 5353 S.R.S. 12/17/70

NO.	DATE	REVISIONS	BY	CK'D
4	1/7/85	ADDED CLEANOUTS	J.H.W.	EJC
3	12/5/84	ADDED LEGEND	SJT	EJC
2	11/21/84	REMOVED CLEANOUT	RFO	EJC
1	10/2/84	MISCELLANEOUS REVISIONS	J.H.W.	EJC

STATE OF VERMONT REGISTERED PROFESSIONAL ENGINEER No. 3944

DuBois & King inc.
engineering planning management development

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

DRAWN BY: ECS/RFO	DATE: 6/21/84
CHECKED BY: J.H.W.	PROJ. NO.: 45903
PROJ. ENG.: EJC	DRAW. NO.: 5354
SHEET 2	OF 6

△8
140'
12"CGMP
8"S
S
3"×3" WYE W/ CLEANOUT
STA. 58+00
TOP OF BANK
WOODS
3" FORCE MAIN
3"×3" WYE W/ CLEANOUT
STA. 63+95
45° BEND
STA. 64+65
EXISTING RUTLAND
INDUSTRIAL PARK M.H.#A
STA. 67+30
(CONNECT NEW 3" FORCE
MAIN TO EXISTING MANHOLE)
140'
170'
△7
150'
○WELL
3"×3" WYE W/ CLEANOUT
STA. 51+80
WOODS
○WELL
3"×3" WYE W/ CLEANOUT
STA. 46+50
3" FORCE MAIN
RUNWAY 1-19 (ASPHALT)
185'
3" FORCE MAIN
12"RCP
12"RCP
150'
155'
△6
100'
3"×3" WYE W/ CLEANOUT
STA. 41+35
45° BEND
STA. 40+00
3"×3" WYE W/ CLEANOUT
STA. 36+00
45° BEND
STA. 37+45
N
240'
150'
RUNWAY 13-31 (ASPHALT)
TOP OF BANK
22½° BEND
STA. 28+35
3"×3" WYE W/ CLEANOUT
STA. 29+15
45° BEND
STA. 29+65
3"×3" WYE W/ CLEANOUT
STA. 23+00
3" FORCE MAIN
WOODS
HANGER
MATCH LINE TO SHEET 2 OF 6
BOTTOM OF SLOPE
3"×3" WYE W/ CLEANOUT
STA. 5+25
3" FORCE MAIN
TOP OF BANK
△
3"×3" WYE W/ CLEANOUT
STA. 9+15
FUTURE FACILITIES
3" FORCE MAIN
3"×3" WYE W/ CLEANOUT
& 22½° BEND
STA. 13+45 BK= 12+70 AH.
△△
70'
150'
6"CGMP
24"RCP
TOP OF BANK
45° BEND
STA. 15+45
3"×3" WYE W/ CLEANOUT
STA. 16+75

PLAN
SCALE: 1"=100'

NO.	DATE	REVISIONS	BY	CK'D
△1	11/21/84	ADDED FUTURE FACILITIES & REVISED FM. ALIGNMENT.	RFO	ESC

DuBois & King inc.
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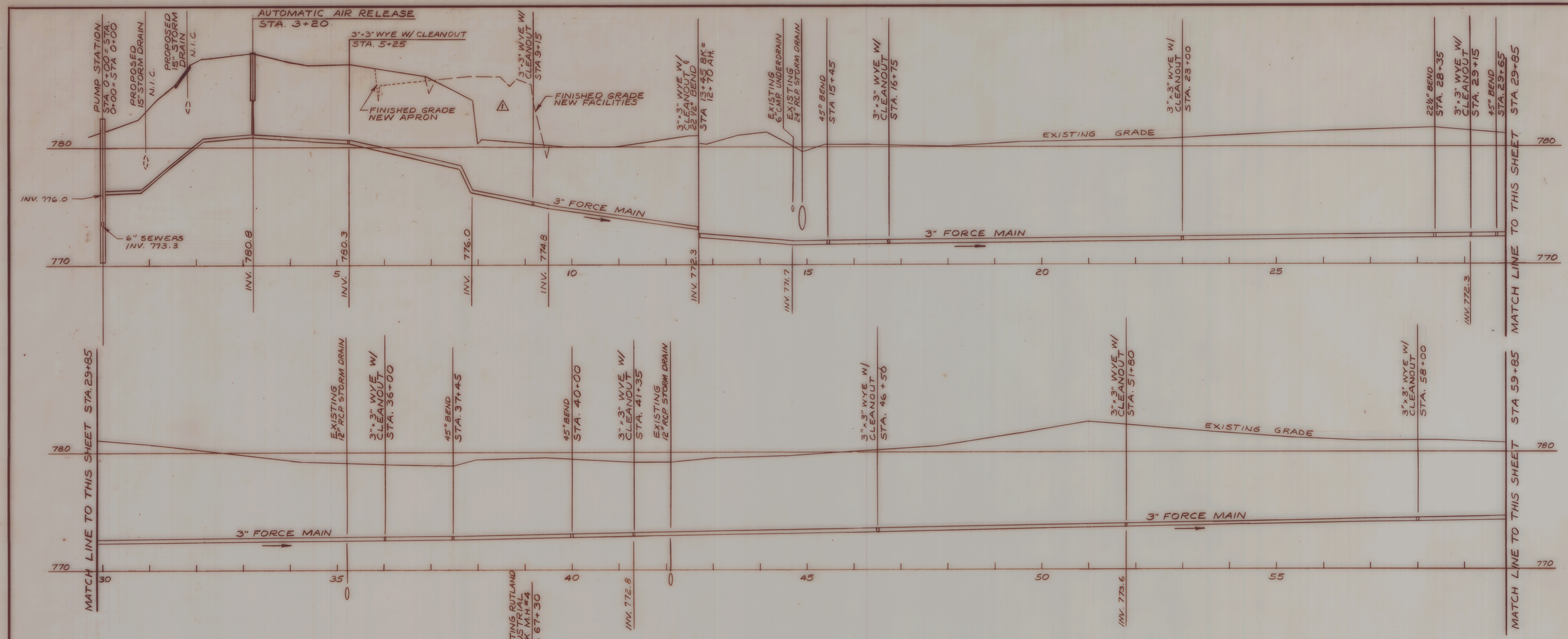
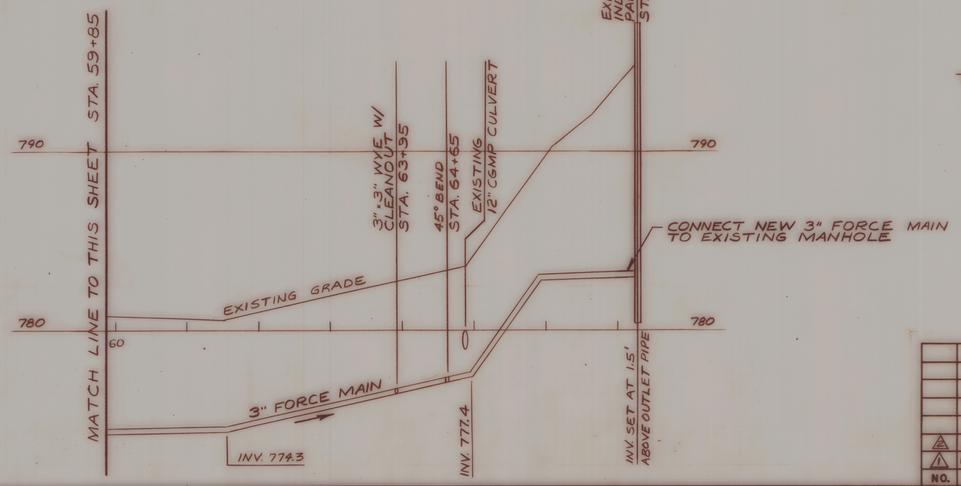
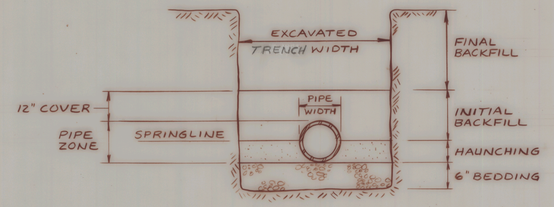
STATE OF VERMONT
AGENCY OF TRANSPORATION
RUTLAND STATE AIRPORT
AIR 03-2034
SEWER FORCE MAIN
PLAN

DRAWN BY ECS, RFO	DATE 6/21/84
CHECKED BY	PROJ. NO. 45903
PROJ. ENG. ESC	DRAW. NO. 5355
SHEET 3 OF 6	





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



⚠ TYPICAL TRENCH DETAIL
FOR PVC PIPE
NO SCALE

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

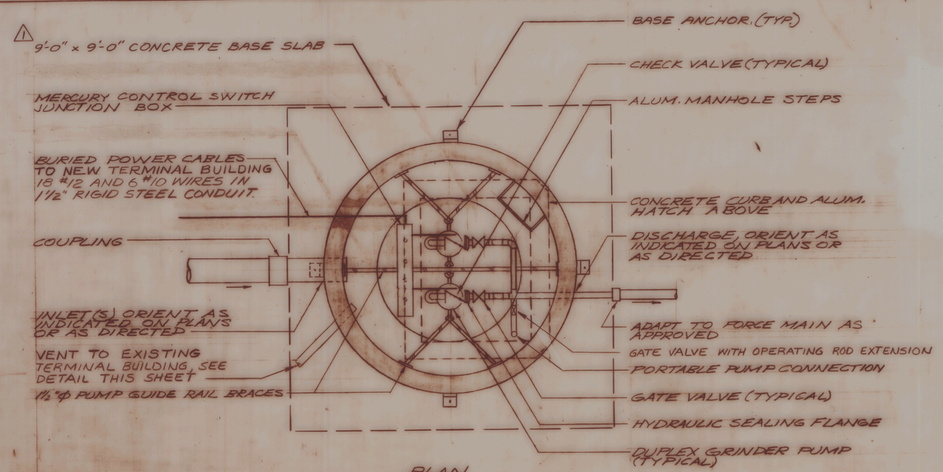
NO.	DATE	REVISIONS	BY	CK'D
⚠	12/5/84	ADDED TYPICAL TRENCH DETAIL	SJT	ESC
⚠	11/21/84	REVISED PROFILE	RFO	ESC

STATE OF VERMONT — Edward S. Craigue — REGISTERED PROFESSIONAL ENGINEER

DuBois & King inc.
engineering planning management development

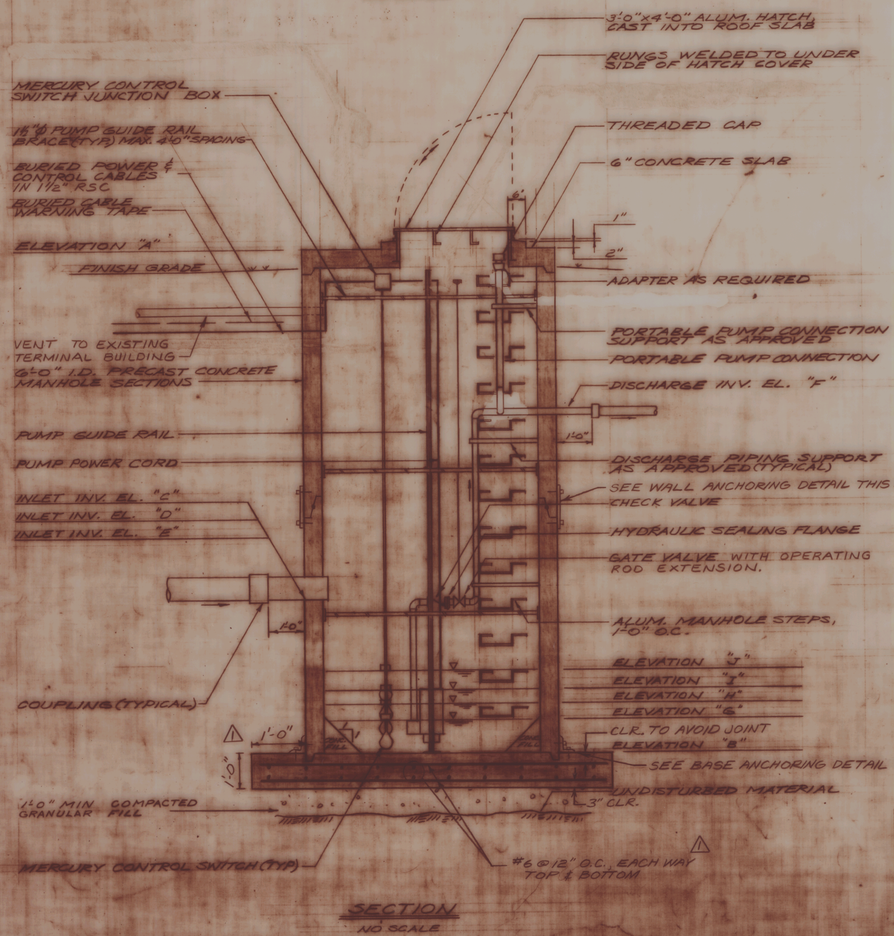
STATE OF VERMONT
AGENCY OF TRANSPORTATION
RUTLAND STATE AIRPORT
AIR 03-2034
SEWER FORCE MAIN
PROFILE

DRAWN BY: ESC, RFO	DATE: 6/22/84
CHECKED BY: JJW	PROJ. NO.: 45903
PROJ. ENG.: EJC	DRAW. NO.: 5356
SHEET 4 OF 6	



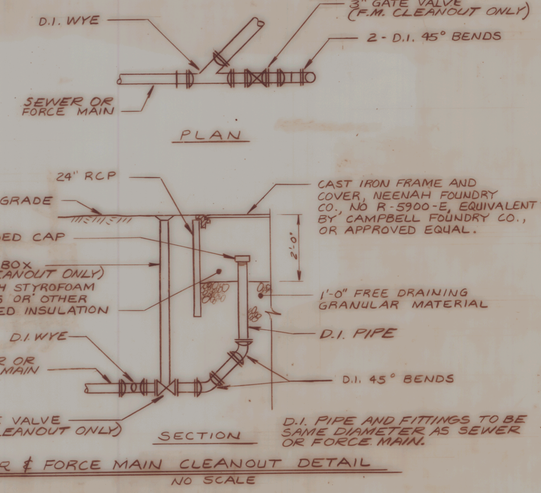
PLAN

NO SCALE



SECTION

NO SCALE

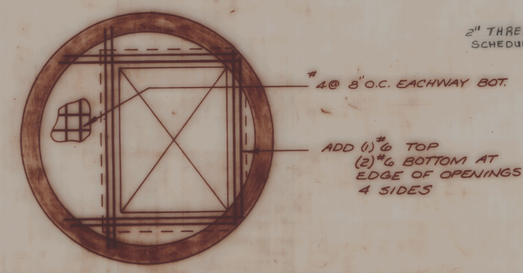


PLAN

SECTION

SEWER & FORCE MAIN CLEANOUT DETAIL

NO SCALE



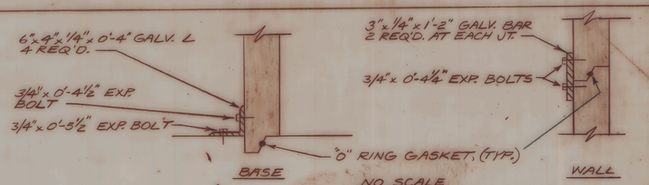
ROOF SLAB REINFORCED PLAN.

NO SCALE

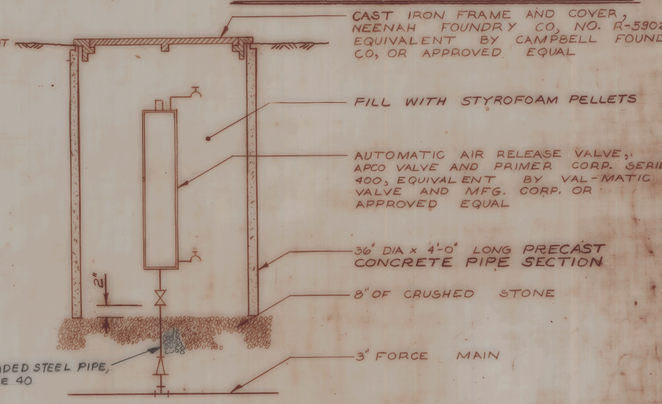
PUMP STATION SCHEDULE	
PUMPING STATION LOCATION	
INLET - SIZE AND INVERT EL. "C"	6" 773.3
INLET - SIZE AND INVERT EL. "D"	6" 773.3
INLET - SIZE AND INVERT EL. "E"	N/A
DISCHARGE - SIZE AND INVERT EL. "F"	3" 776.0
LEAD/LAG PUMPS OFF EL. "G"	771.3
LEAD PUMP ON - EL. "H"	772.8
LAG PUMP ON - EL. "I"	773.3
ALARM ON - EL. "J"	773.3
PORTABLE PUMP CONNECTION SIZE	2½"
VENT DIAMETER	3"
TOP OF SLAB - EL. "A"	782.5
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

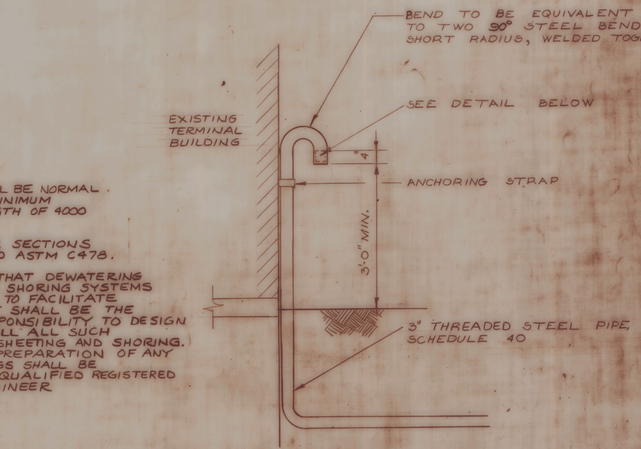


PUMP STATION ANCHORING DETAILS



AIR RELEASE DETAIL

NO SCALE



VENT DETAILS

NO SCALE

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

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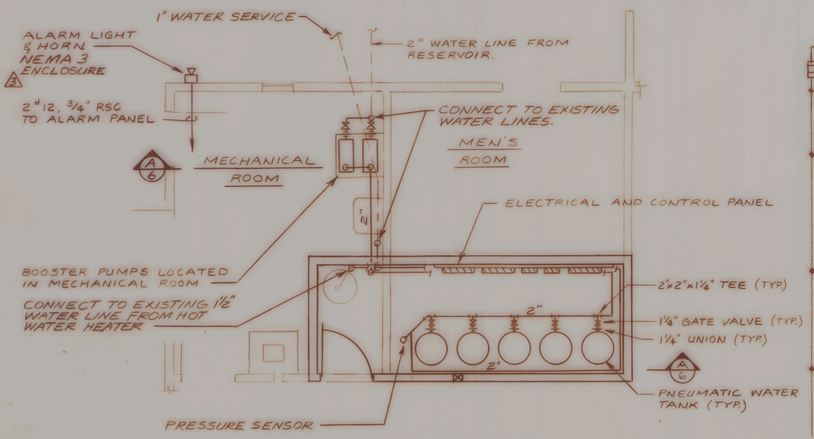
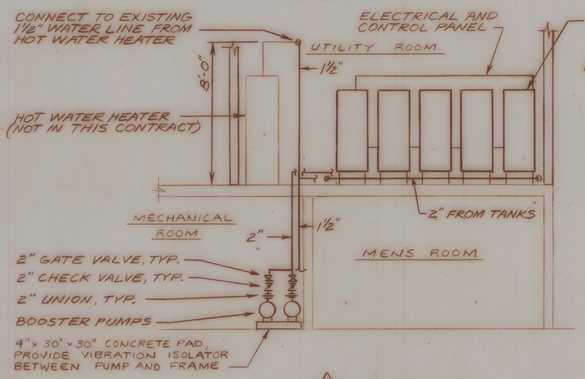
STATE OF VERMONT
AGENCY OF TRANSPORTATION
RUTLAND STATE AIRPORT
AIR 03-2034
SEWER PUMP STATION
PLANS AND DETAILS

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



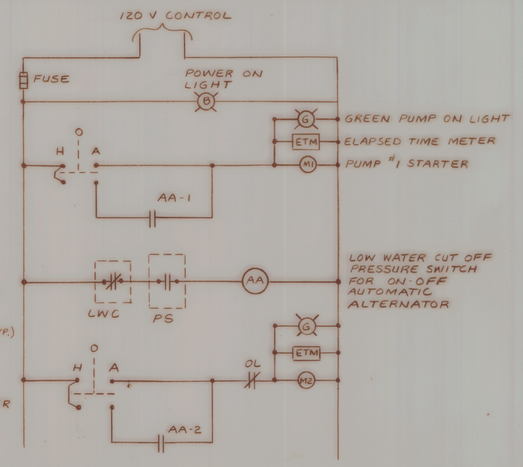
UTILITY ROOM PLAN

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



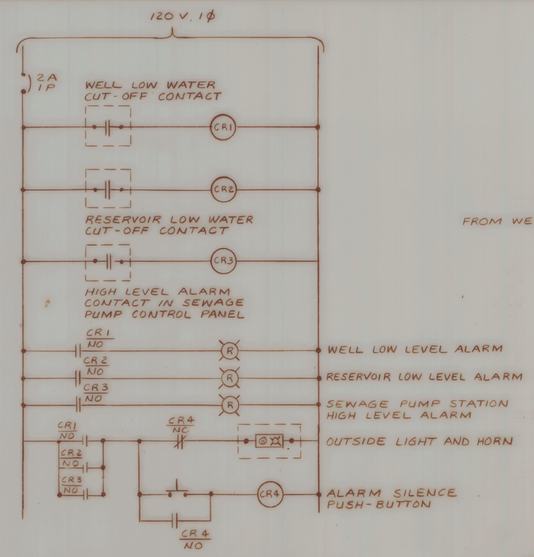
SECTION A/6

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



BOOSTER PUMP CONTROL SCHEMATIC

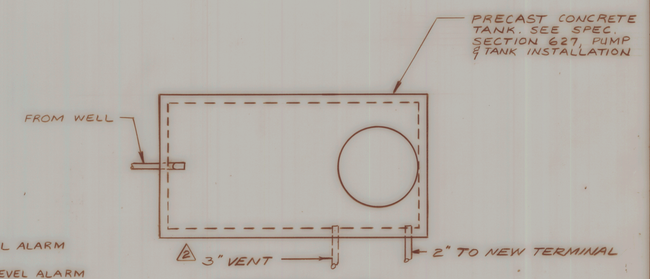
NO SCALE



ALARM SCHEMATIC

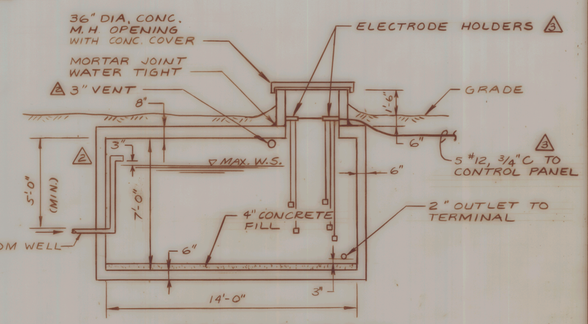
NO SCALE

NOTE : ALARM SYSTEM FOR WATER & SEWAGE USE COMMON LIGHT AND HORN ON OUTSIDE OF BUILDING WITH INDIVIDUAL LIGHTS ON CONTROL PANEL.



RESERVOIR PLAN

SCALE 1/4" : 1'-0"

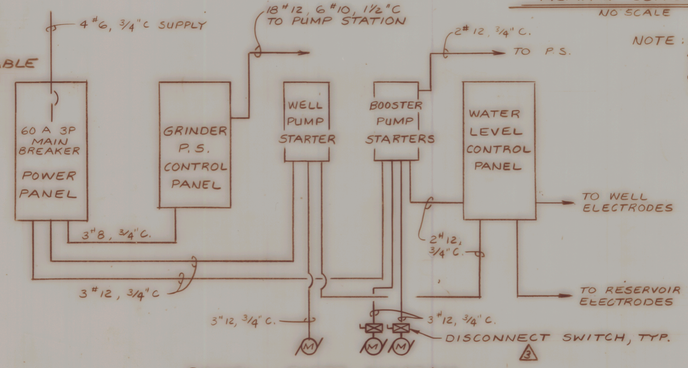


RESERVOIR SECTION

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

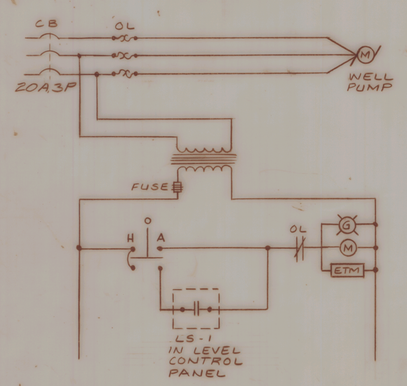
NOTES:

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.



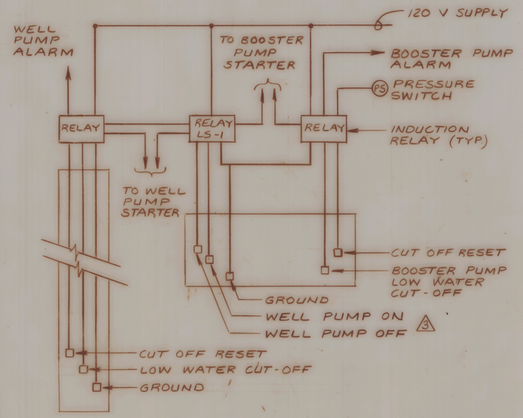
PANEL RISER DIAGRAM

NO SCALE



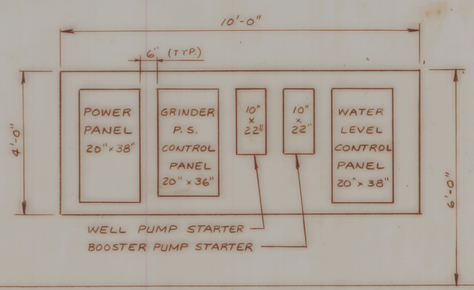
WELL PUMP CONTROL SCHEMATIC

NO SCALE



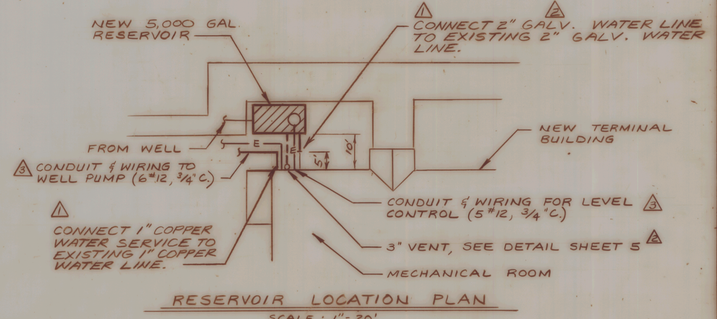
LEVEL CONTROL DIAGRAM

NO SCALE



PANEL LAYOUT

NO SCALE



RESERVOIR LOCATION PLAN

SCALE : 1" = 20'

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

Addendum #1
Feb. 7, 1985

NO.	DATE	REVISIONS	BY	CK'D
3	2/4/85	ADDENDUM NO. 1, MISC. ELEC. REV.	SJT	EJC
2	11/7/85	REV. PIPING, ADDED VENT & NOTES	GHW	EJC
1	10/2/84	REVISED WATER PIPING	GHW	EJC

STATE OF VERMONT · EDWARD J. CURRIER · No. 3944 · REGISTERED PROFESSIONAL ENGINEER

DuBois & King inc.
engineering planning management development

STATE OF VERMONT
AGENCY OF TRANSPORTATION
RUTLAND STATE AIRPORT

WATER SYSTEM
PLANS AND DETAILS
FACILITIES, POWER AND
CONTROL SCHEMATICS

DRAWN BY: SJT	DATE: JULY 1984
CHECKED BY: GHW	PROJ. NO. 45903
PROJ. ENG. EJC	DRAW. NO. 5358
SHEET 6	OF 6