

AGENCY OF ADMINISTRATION  
 DEPARTMENT OF STATE BUILDINGS  
 2 GOVERNOR AIKEN AVENUE  
 MONTPELIER, VERMONT 05602  
 JOHN J. ZAMPIERI, COMMISSIONER

State of Vermont  
 Agency of Transportation

AGENCY OF TRANSPORTATION  
 133 STATE STREET  
 MONTPELIER, VERMONT 05602  
 GLENN M. GERSHANECK, SECRETARY

# ALBURG WELCOME CENTER

In the Town of Alburg on U.S. Route 2

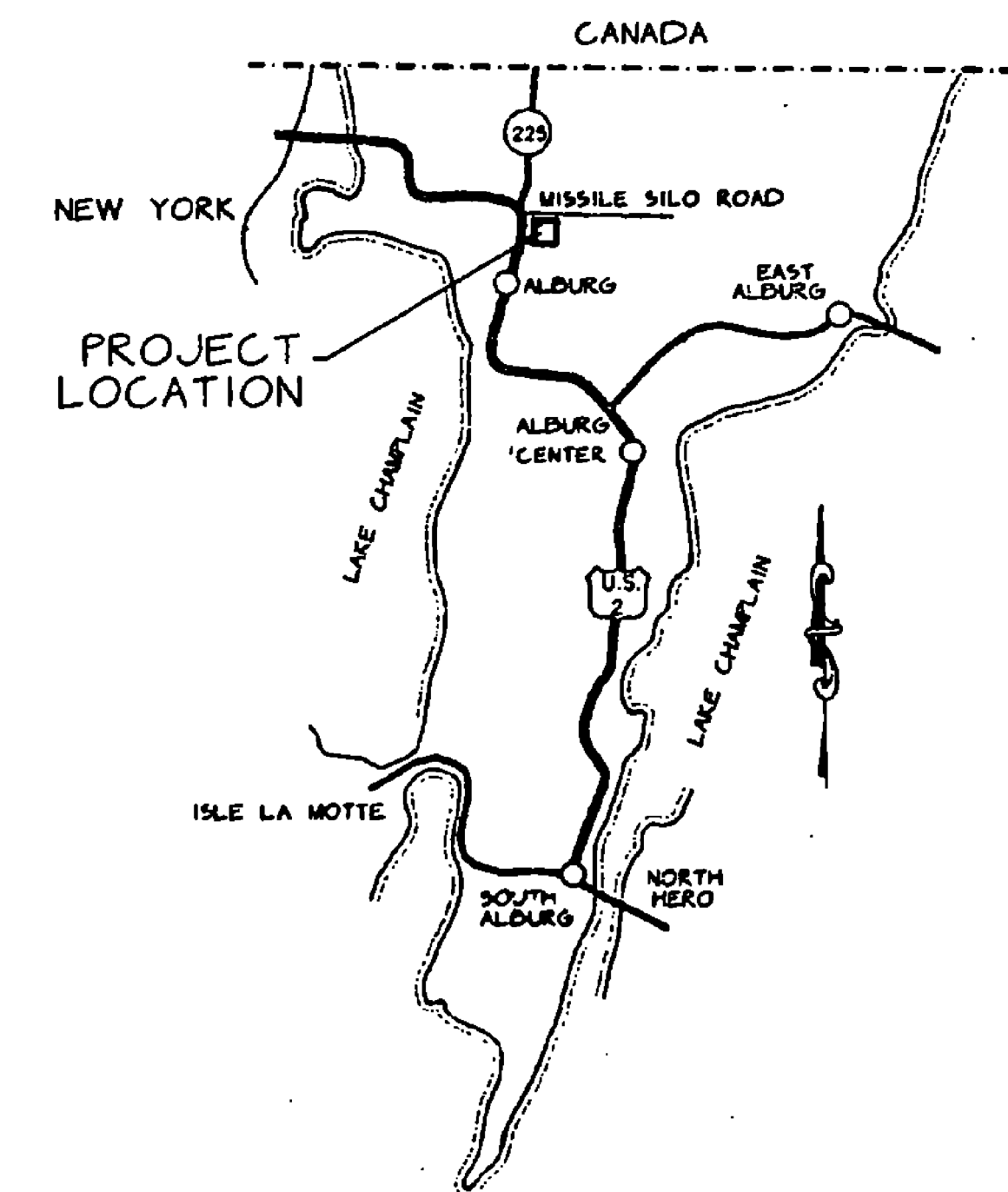
Project consists of constructing a 864 s.f. pre-cut  
 log structure to become the Lake Champlain  
 Islands Welcome Center and associated site work.



Howard Dean, M.D.  
 Governor

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### CONTRACT PLANS

THESE PLANS DO NOT REFLECT  
 CHANGES MADE ON THE PROJECT.

### PROJECT LOCATION

## A.O.T. - STANDARDS

- C-1 GRANITE SLOPED EDGING, VERTICAL GRANITE CURB,  
 PRECAST REINFORCED CONCRETE CURB, CAST IN  
 PLACE CONCRETE CURB, BITUMINOUS CONCRETE  
 CURB, TREATED TIMBERCURB 6-1-94R
- C-3 SIDEWALK RAMPS 6-1-94R
- E-191 PAVEMENT MARKING DETAILS 8-18-95R
- G-1d STEEL BEAM GUARD RAIL 6-1-94

Date SEP 06 1996  
 NECCO Inc.  
 President  
 Secretary of Transportation's Signature

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING  
 CHANGES AS MAY BE REQUIRED BY THE FEDERAL  
 HIGHWAY ADMINISTRATION OR THE DIRECTOR OF  
 CONSTRUCTION AND MAINTENANCE.  
 CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE  
 WITH THESE PLANS AND THE STANDARD SPECIFICATIONS  
 FOR THE CONSTRUCTION DATED 1990. AS APPROVED BY THE  
 FEDERAL HIGHWAY ADMINISTRATION ON MARCH 15, 1990  
 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT  
 REVISIONS AND SUCH REVISED SPECIFICATIONS AND  
 SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE  
 PLANS.

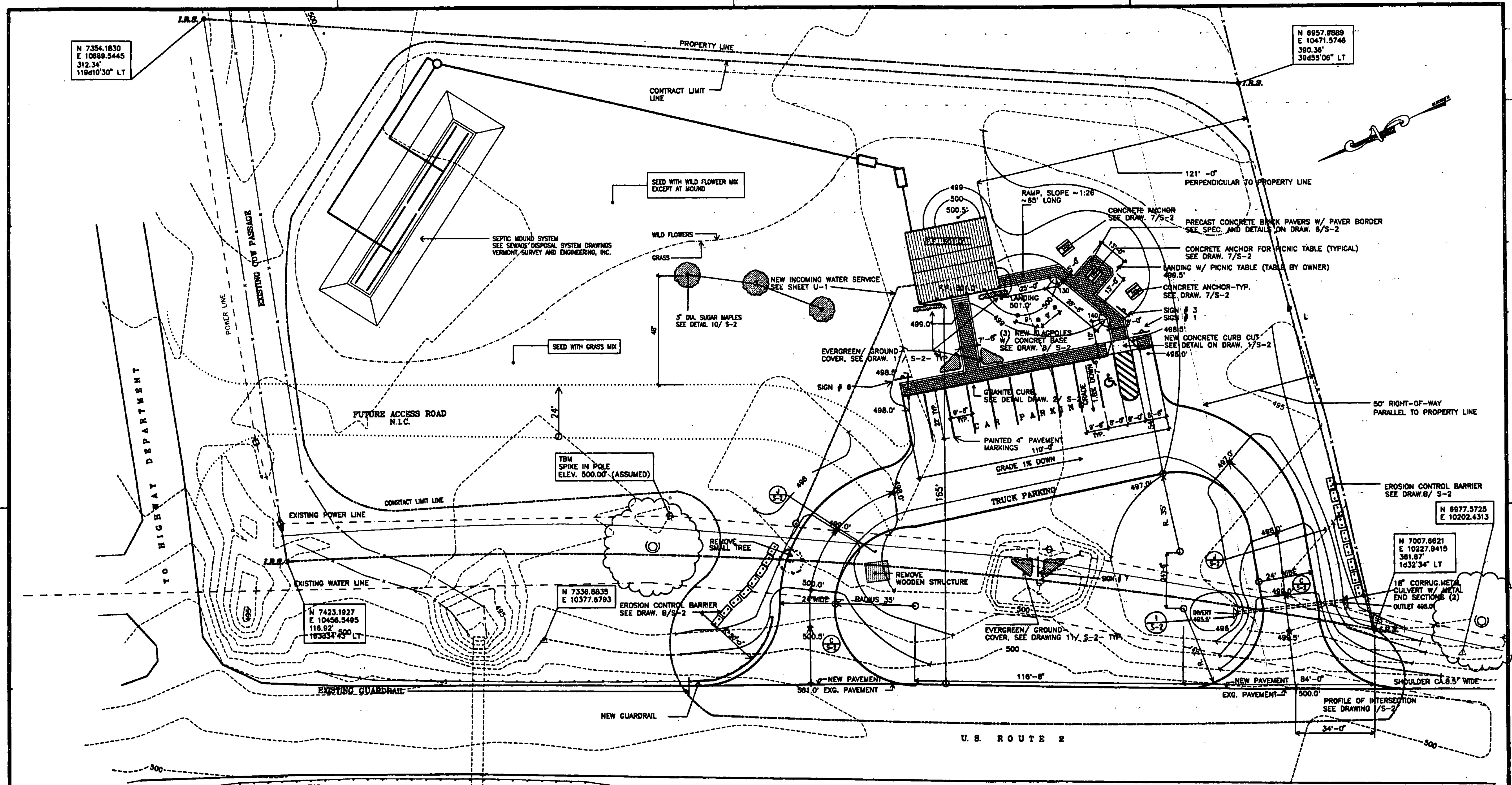
APPROVED: Glenn M. Gershaneck  
 DIRECTOR OF CONSTRUCTION & MAINTENANCE  
 DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
 DIVISION ADMINISTRATOR

PROJECT ALBURG  
 NH 026-1(17)S  
 SHEET 1 OF 21 SHEETS





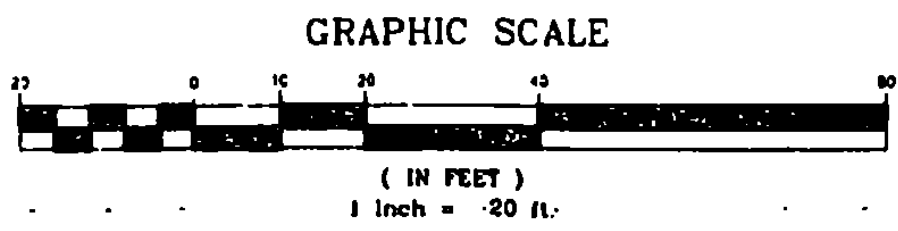


**LEGEND**

	CONCRETE		EXISTING TREE TO REMAIN
	PRECAST CONCRETE BRICK PAVERS		TREE TO BE REMOVED
	ASPHALT		NEW OR RELOCATED TREE OR SHRUB
	FULLY PAINTED AREA		EXISTING STREETLIGHT
	EXISTING 1' CONTOUR LINE		NEW LAMINAIRE
	EXISTING 0' CONTOUR LINE		FLAGPOLE
	NEW 1' CONTOUR LINE		
	SEWAGE		

THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-800-225-4877 PRIOR TO ANY EXCAVATION

NOTE TOPOGRAPHIC INFO TAKEN FROM A SURVEY DATED 3/10/86 BY VERMONT SURVEY AND ENGINEERING, INC. MONTPELIER. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS NECESSARY TO PERFORM THE WORK PRIOR TO BEGINNING THE WORK.



REVISED 7/25/96 PLD

STATE OF VERMONT  
DEPARTMENT OF STATE BUILDINGS  
AGENCY OF ADMINISTRATION  
MONTPELIER, VERMONT

ALBURG WELCOME CENTER  
ALBURG  
SITE-PLAN

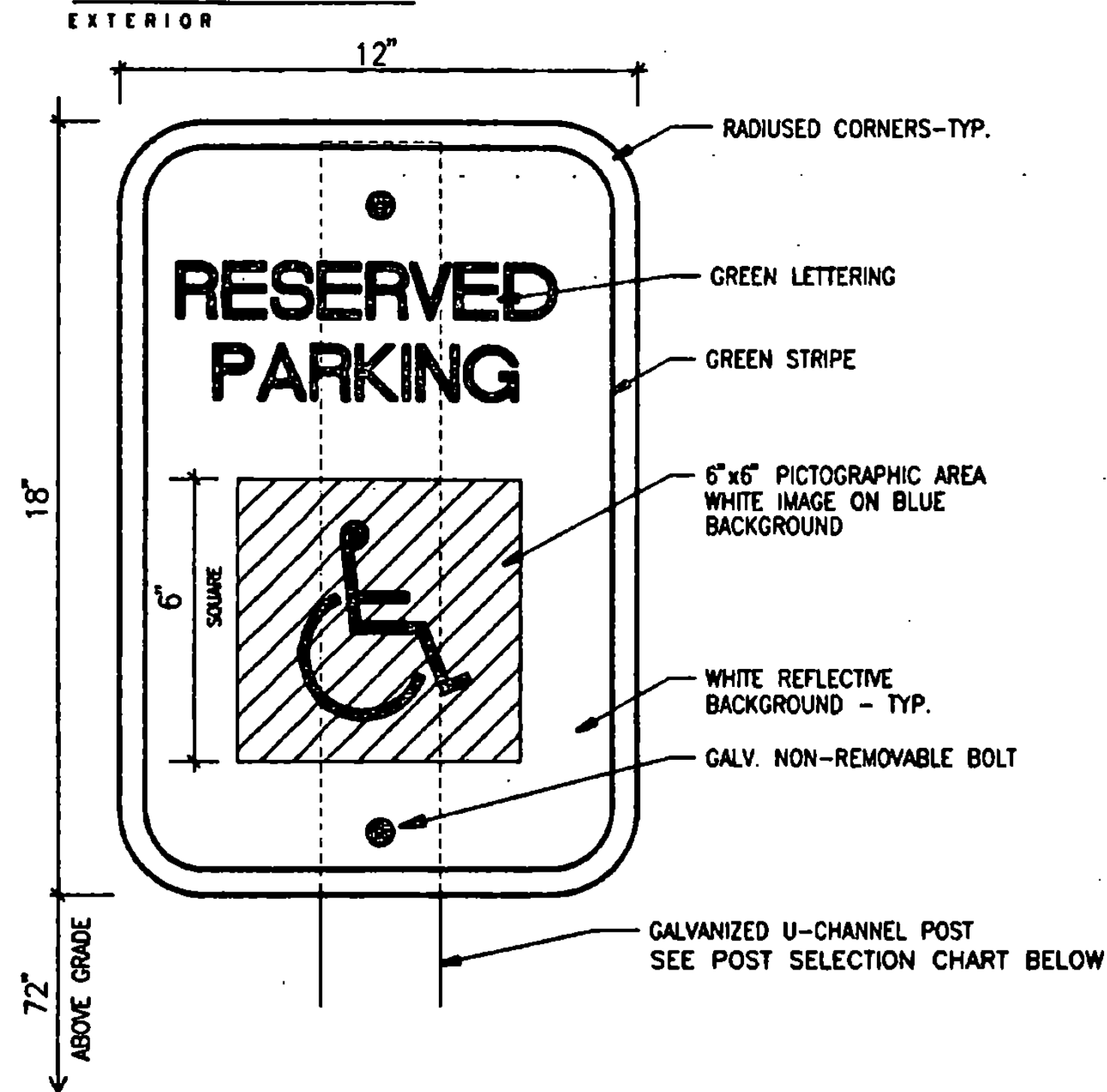
DATE: MARCH 28, 1990	SCALE: 1"=20'	REVISION: 5-16-96 7-25-96	DRAWING NO.: S-1
DRAWN BY: SLL	PROJECT NO.: NH028-1075		SHEET 4 OF 21
APPROVED BY: JBA			



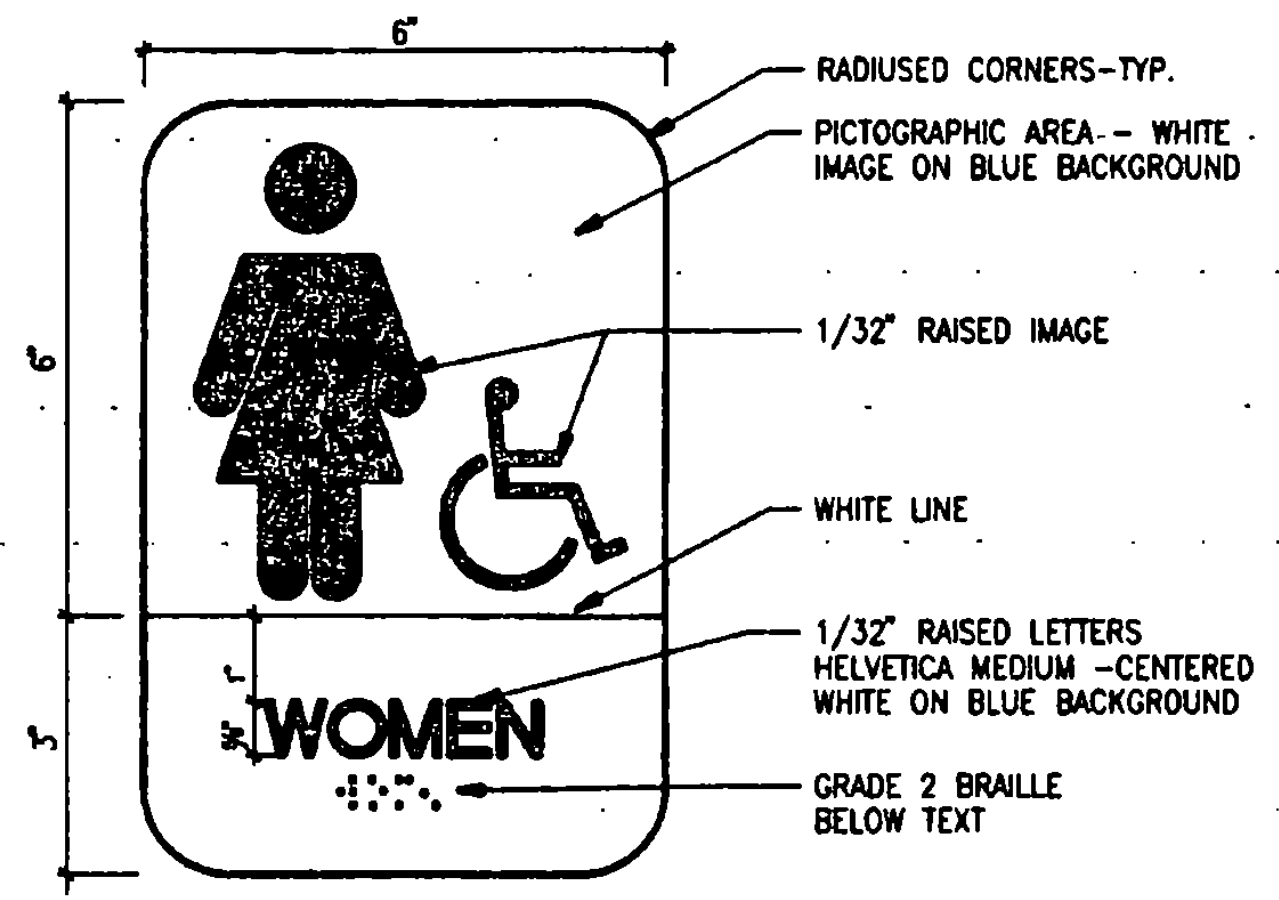




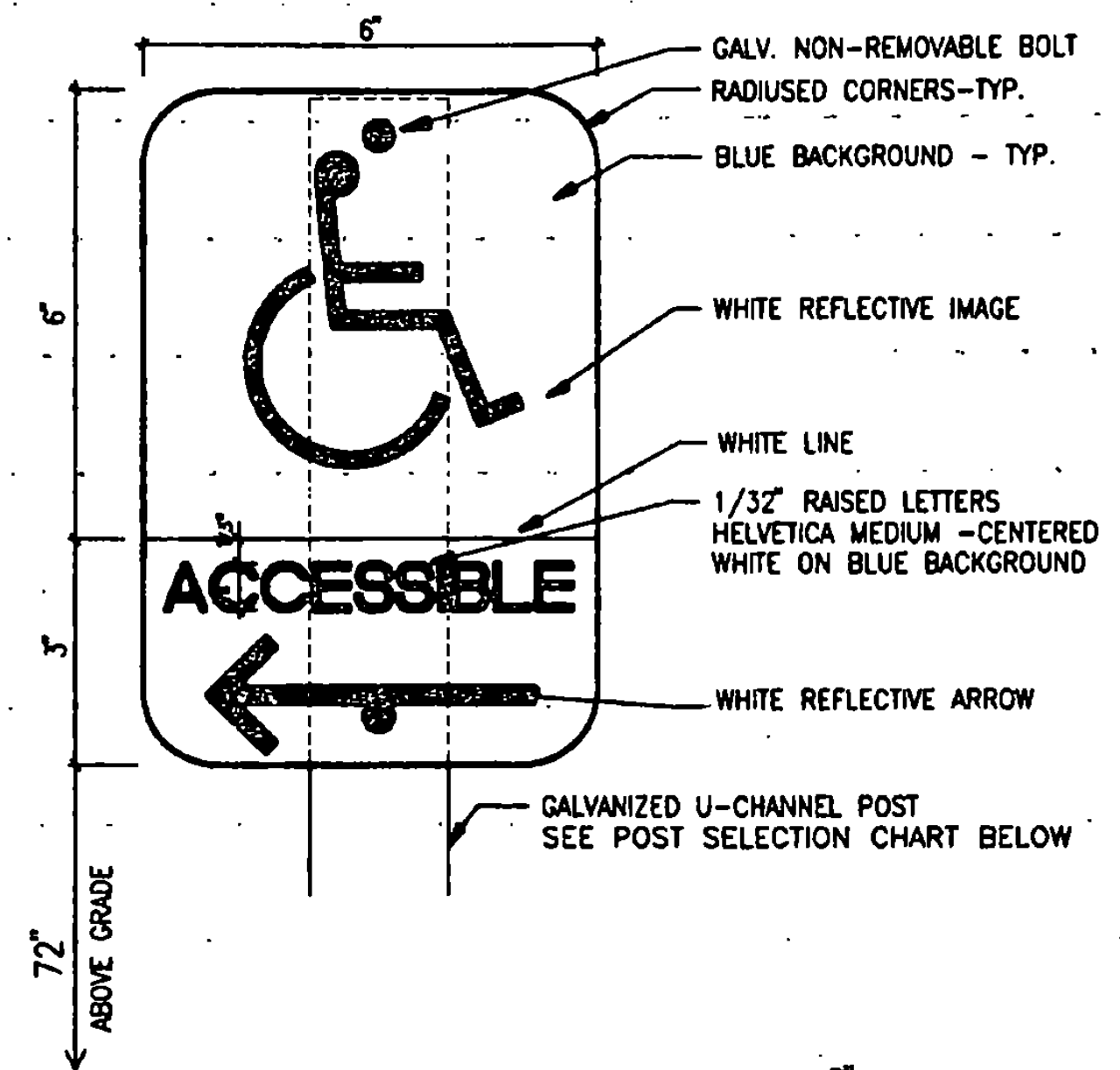
**SIGN TYPE # 1** SCALE 6"=1'-0"



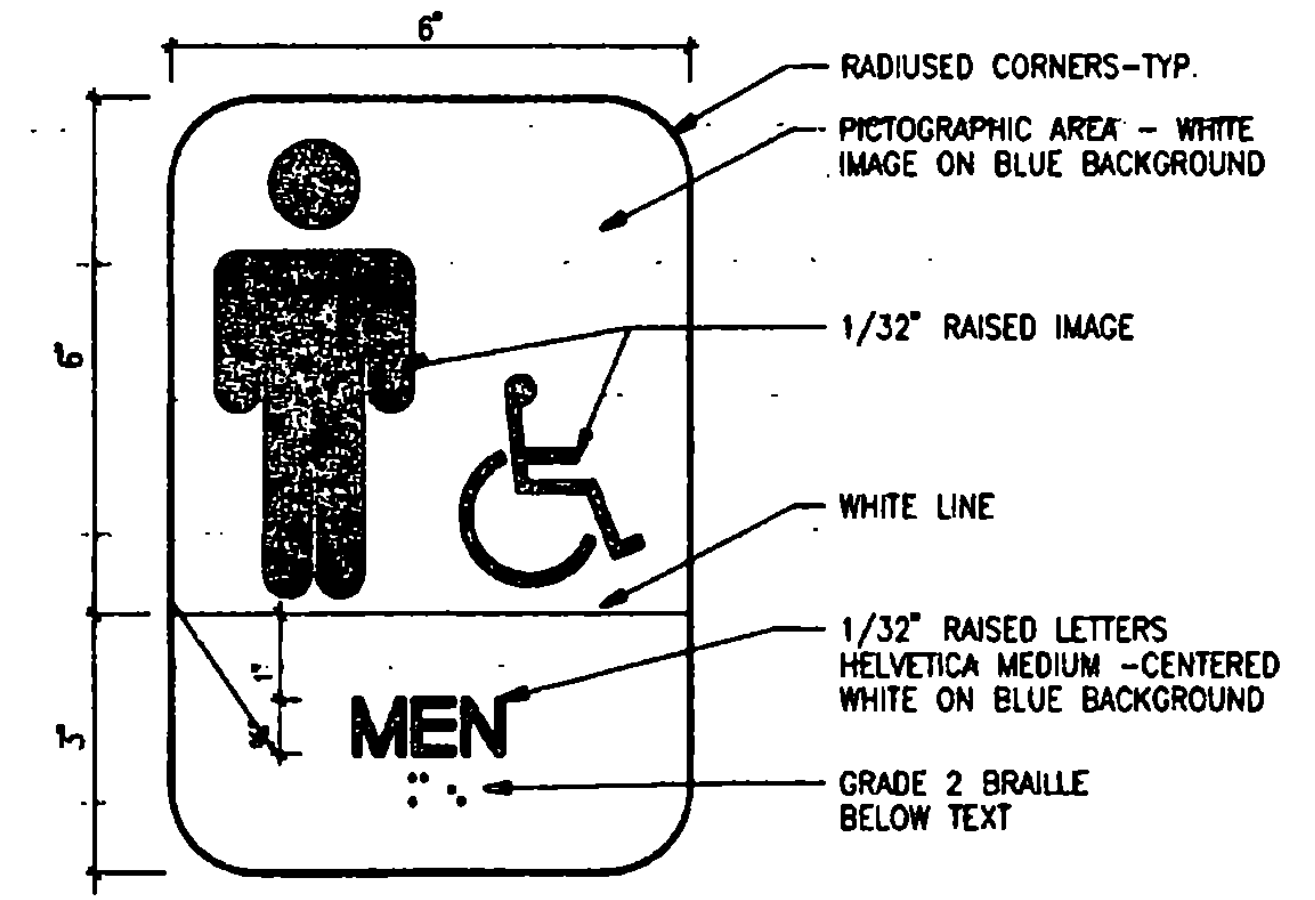
**SIGN TYPE # 2** SCALE 6"=1'-0"



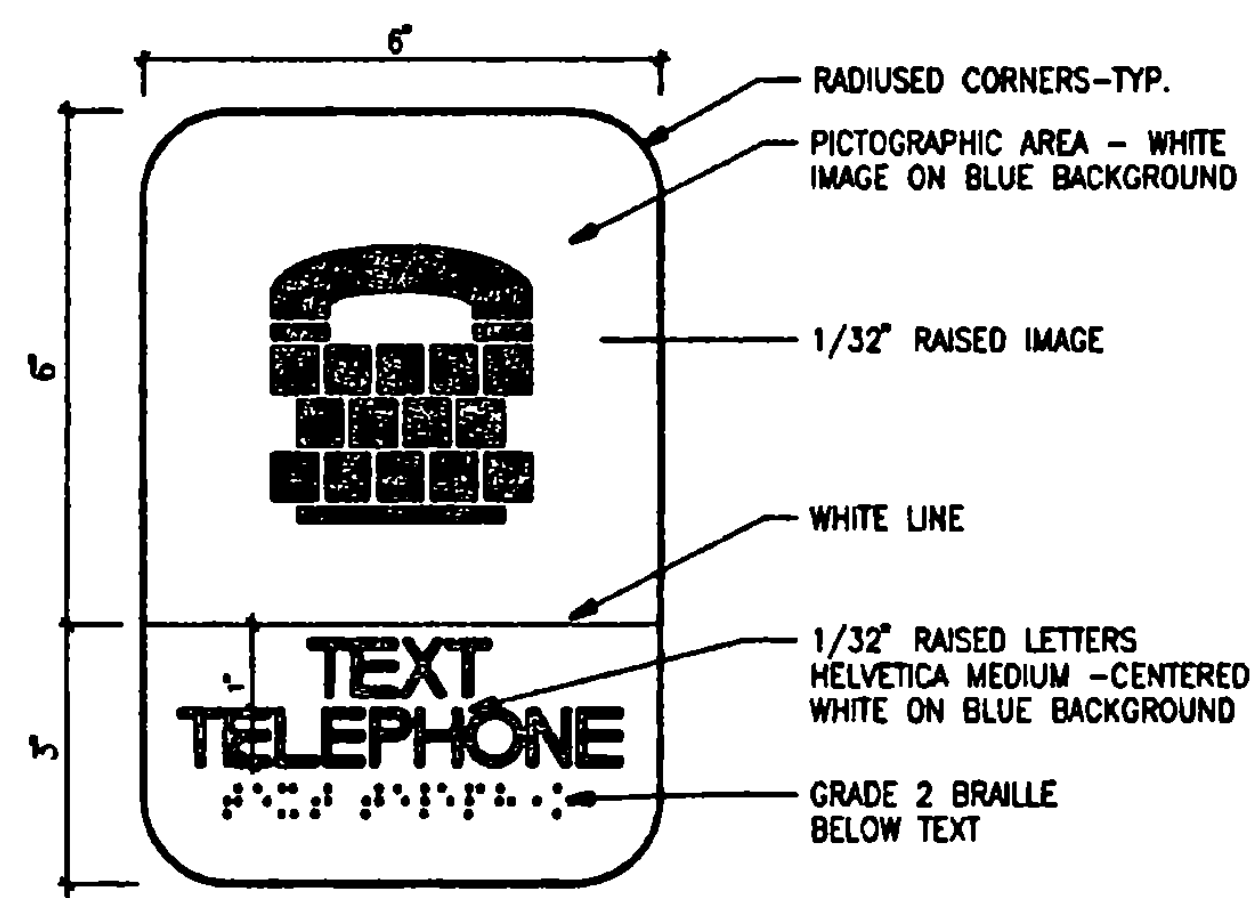
**SIGN TYPE # 3** SCALE 6"=1'-0"



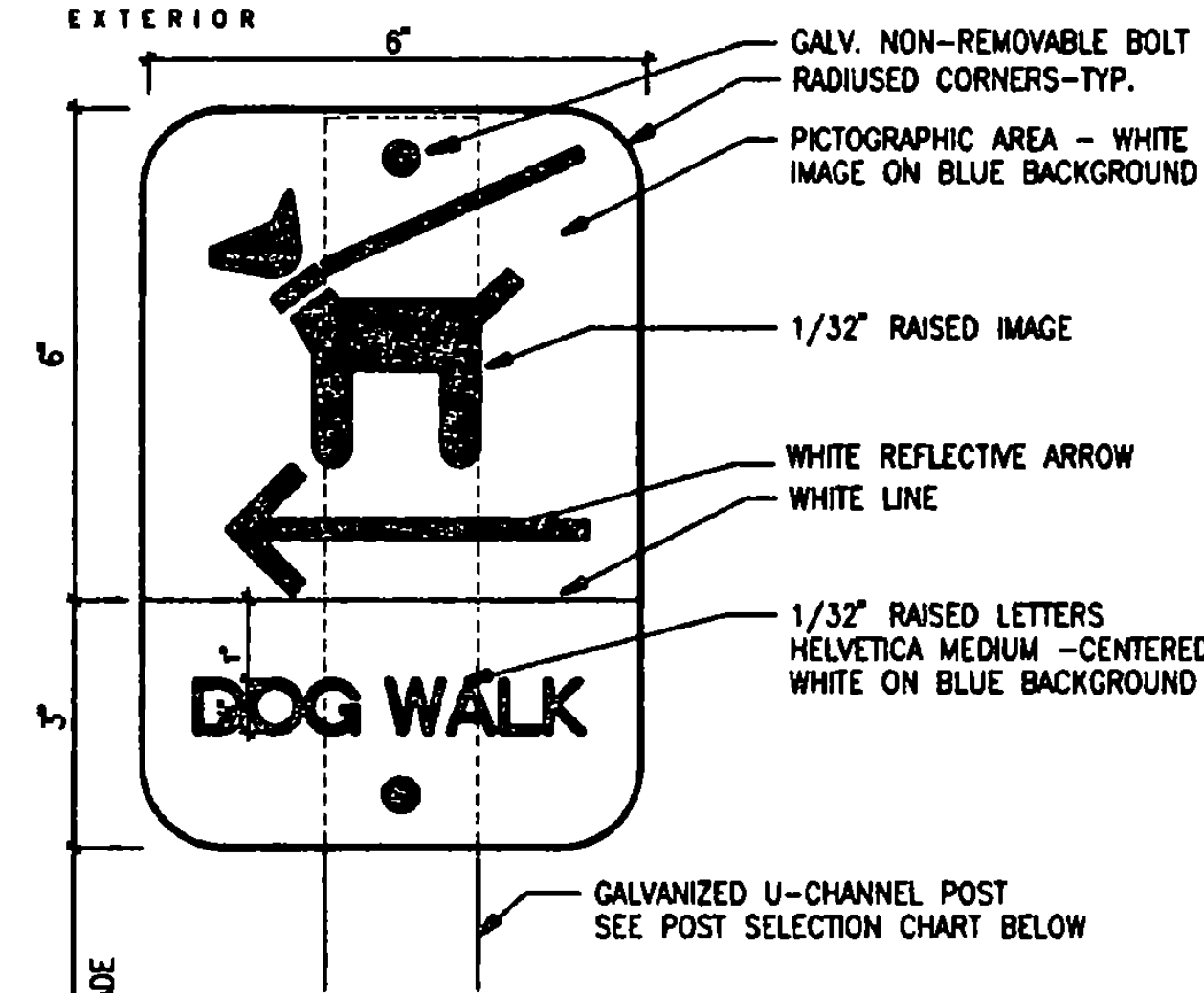
**SIGN TYPE # 4** SCALE 6"=1'-0"



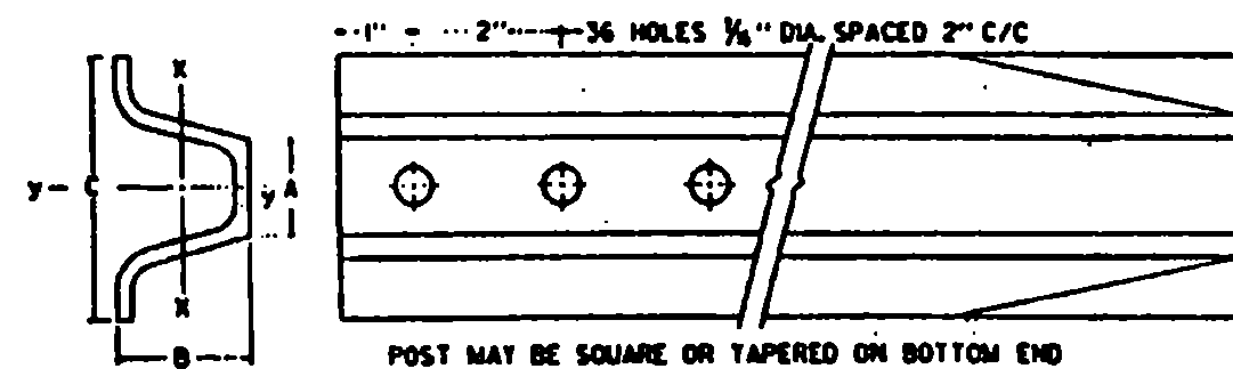
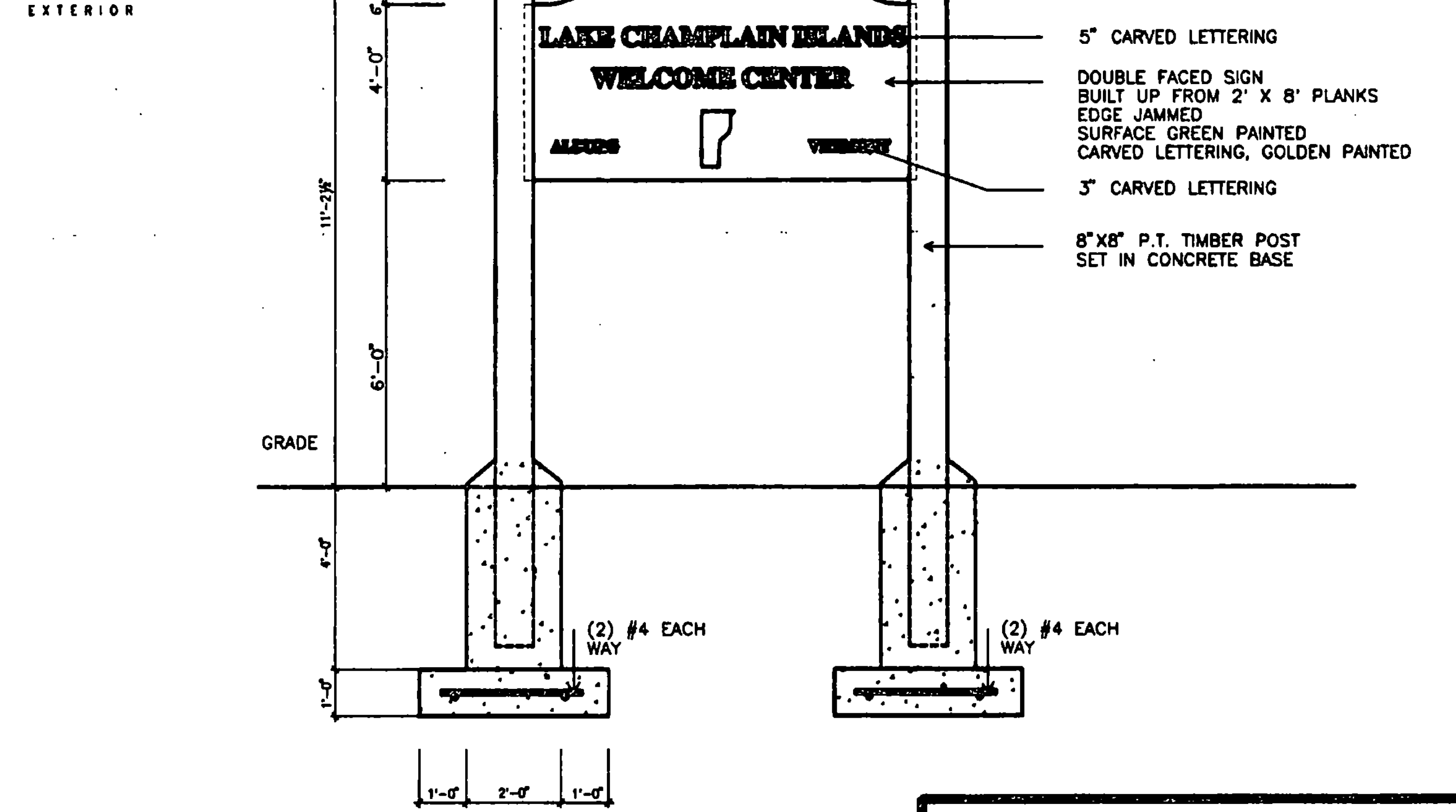
**SIGN TYPE # 5** SCALE 6"=1'-0"



**SIGN TYPE # 6** SCALE 6"=1'-0"



**SIGN TYPE # 7** SCALE 6"=1'-0"



POST SIZE (LB/FT.)	DIMENSIONS			SECTION MODULUS, X-X
	A	B	C	
2	1 7/8"	1 1/2"	3 1/2"	0.225 in <sup>3</sup>
2 1/2	1 7/8"	1 1/2"	3 1/2"	0.289 in <sup>3</sup>
3	1 7/8"	1 1/2"	3 1/2"	0.403 in <sup>3</sup>

SIMILAR DIMENSIONS ARE ACCEPTABLE, HOWEVER SECTION MODULUS VALUES SHALL NOT BE EXCEEDED.

POST SELECTION CHART	
SIGN AREA (FT <sup>2</sup> ) x H (FT) ISV (SELECTION VALUE)	
POST SIZE	DESIGN CRITERIA
2 LB/FT. ONE POST INSTALLATION	32
2 LB/FT. TWO POST INSTALLATION	62
2.5 LB/FT. 0	77
3 LB/FT.	107

SINGULAR 2 LB./FT. POSTS SHALL ONLY TO BE USED IN URBAN AREAS. 2.5 LB./FT. POSTS SHALL NOT BE USED FOR NEW INSTALLATIONS. INFORMATION IS PROVIDED ONLY FOR CHECKING RETAINED POSTS.

**NOTES:**

- OWNER TO FURNISH ALL SIGNS.
- CONTRACTOR TO FURNISH & INSTALL ALL POSTS AS SHOWN ON DRWGS.
- CONTRACTOR TO INSTALL SIGNS WHERE INDICATED ON PLANS.

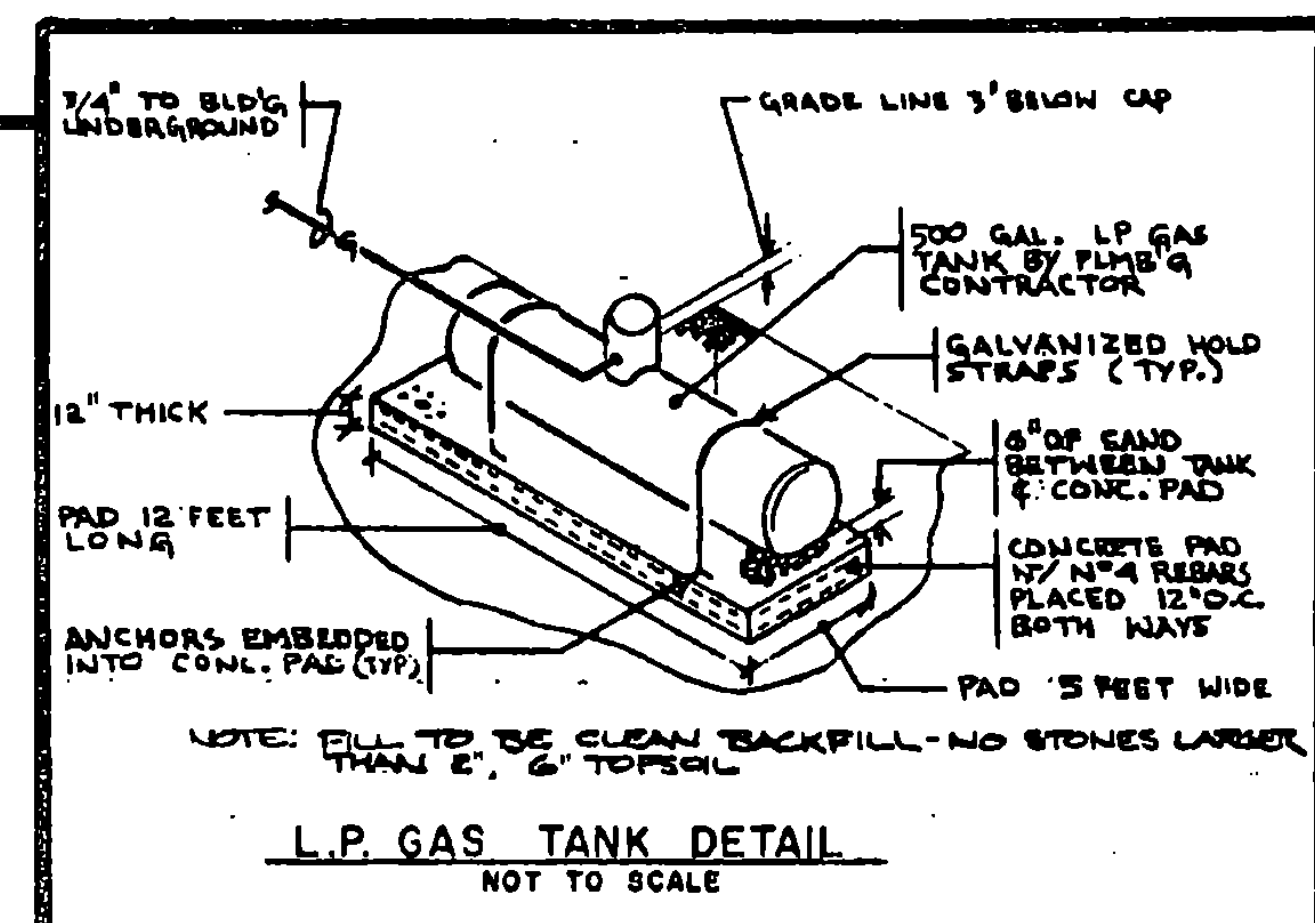
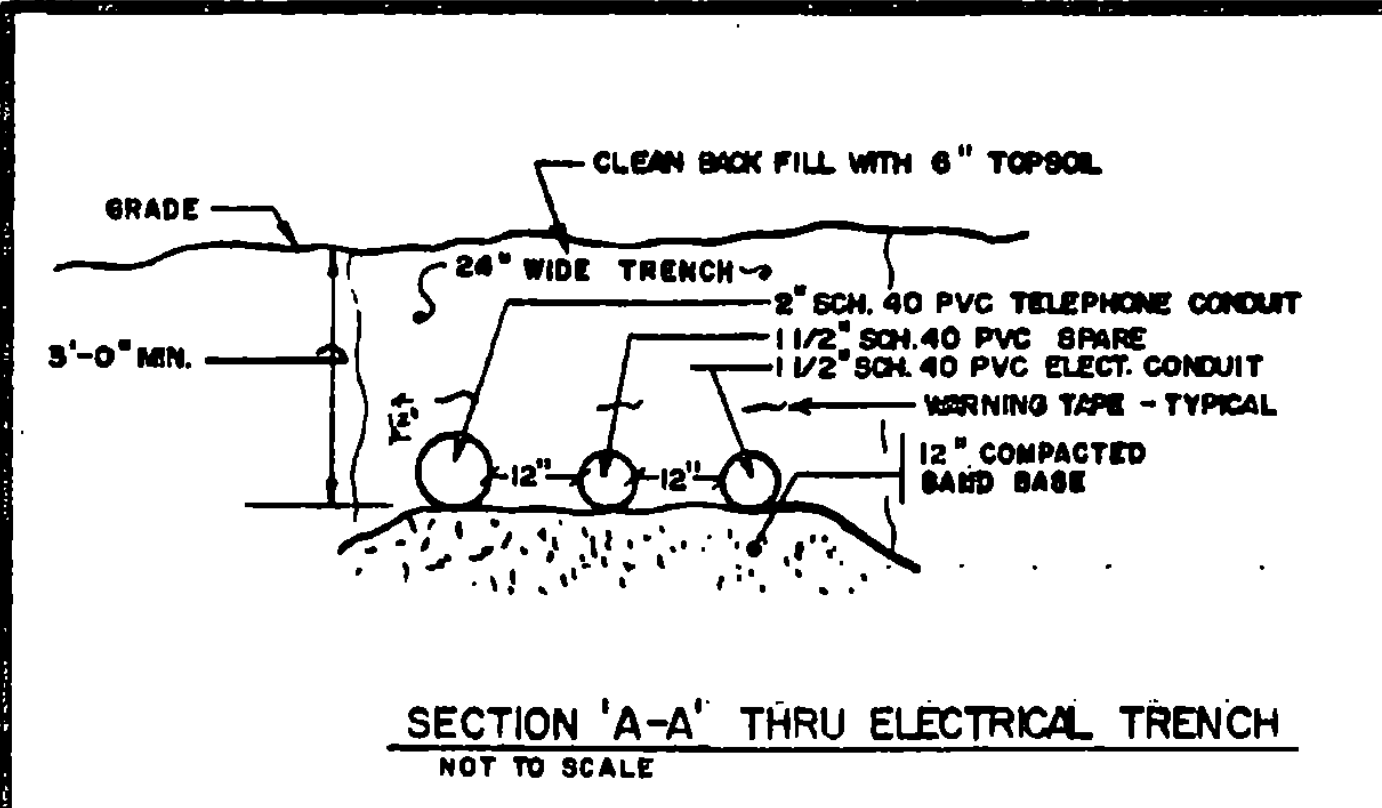
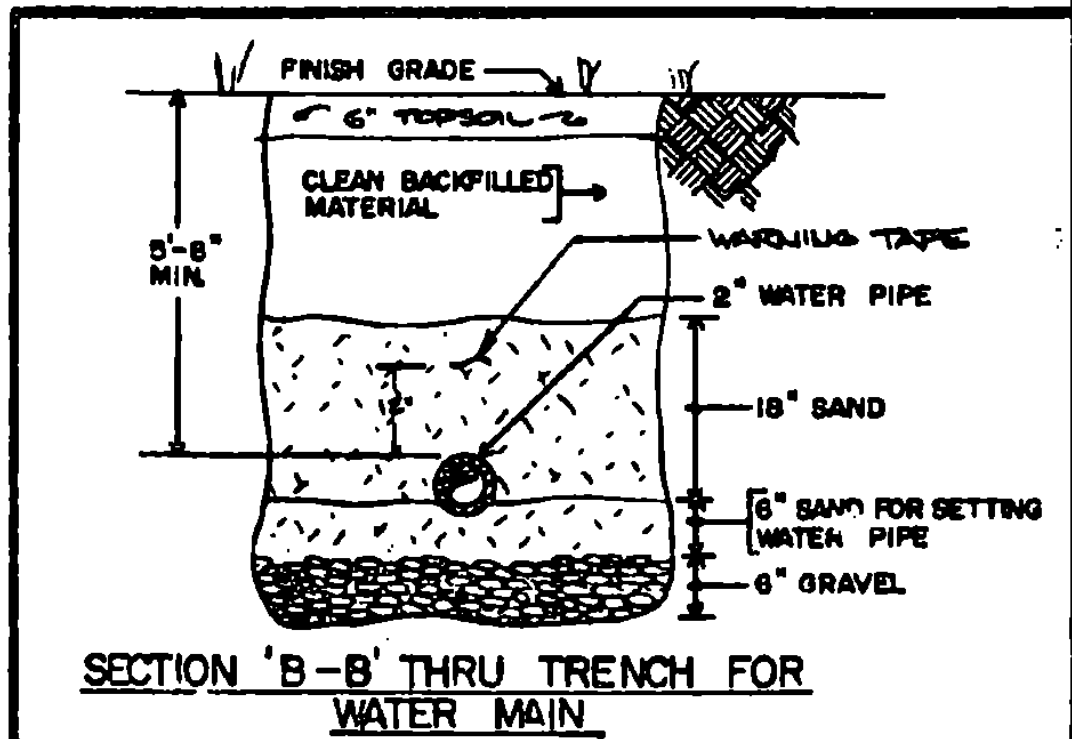
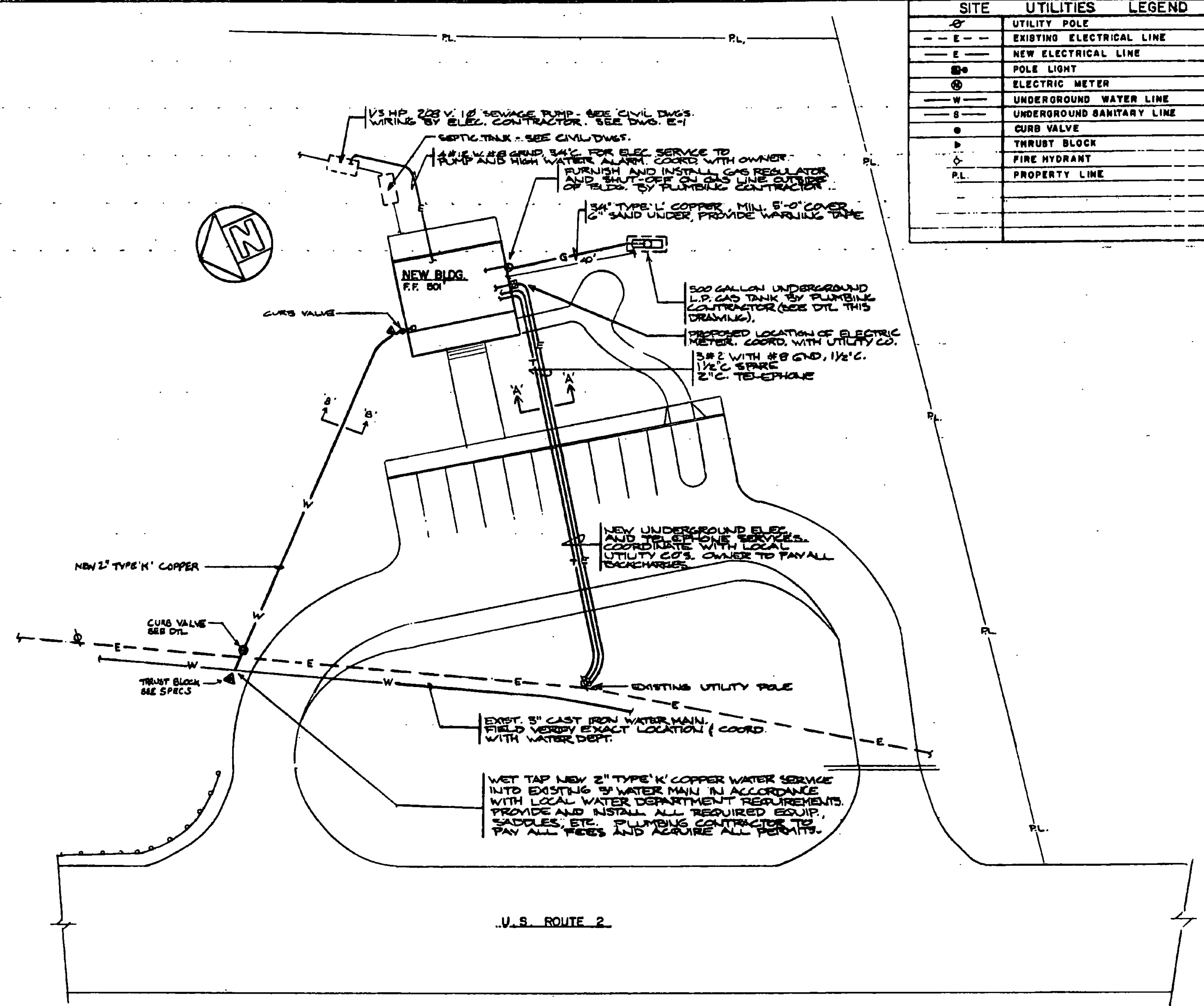
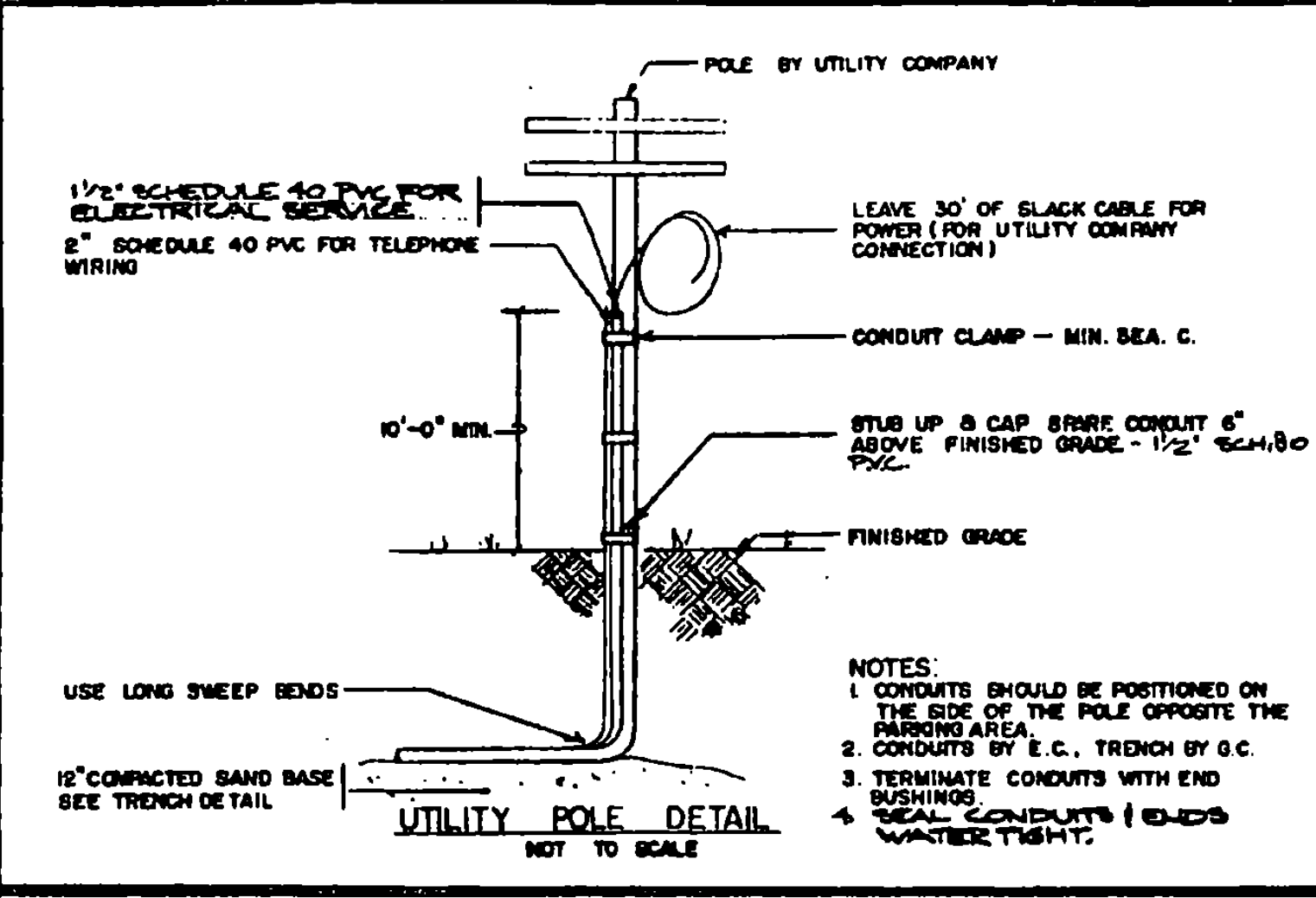
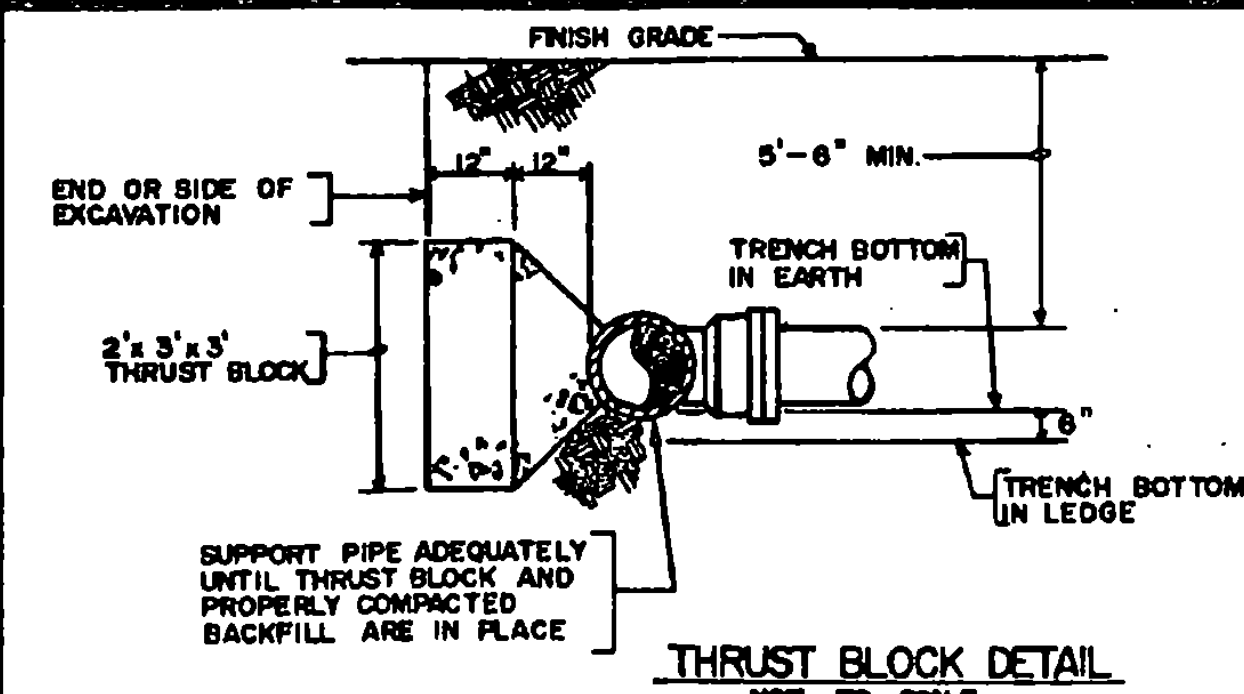
INTERIOR SIGNS - TYPICAL INSTALLATION:  
INSTALL ON WALL AT 60" FROM FIN. FLOOR TO C. OF SIGN, WITH EDGE AT 2" (WHEN POSSIBLE) FROM DOOR FRAME AT LATCH SIDE OF DOOR.

STATE OF VERMONT  
DEPARTMENT OF STATE BUILDINGS  
AGENCY OF ADMINISTRATION  
MONTPELIER, VERMONT

**ALBURG WELCOME CENTER  
ALBURG  
SIGNS**

DATE: MARCH 19, 1998	SCALE: AS NOTED	REVISIONS: 8-10-98	DRAWING NO.:
DRAWN BY: BLL			A-3
APPROVED BY: USA			PROJECT NO.:
NH028-1075			9 OF 21

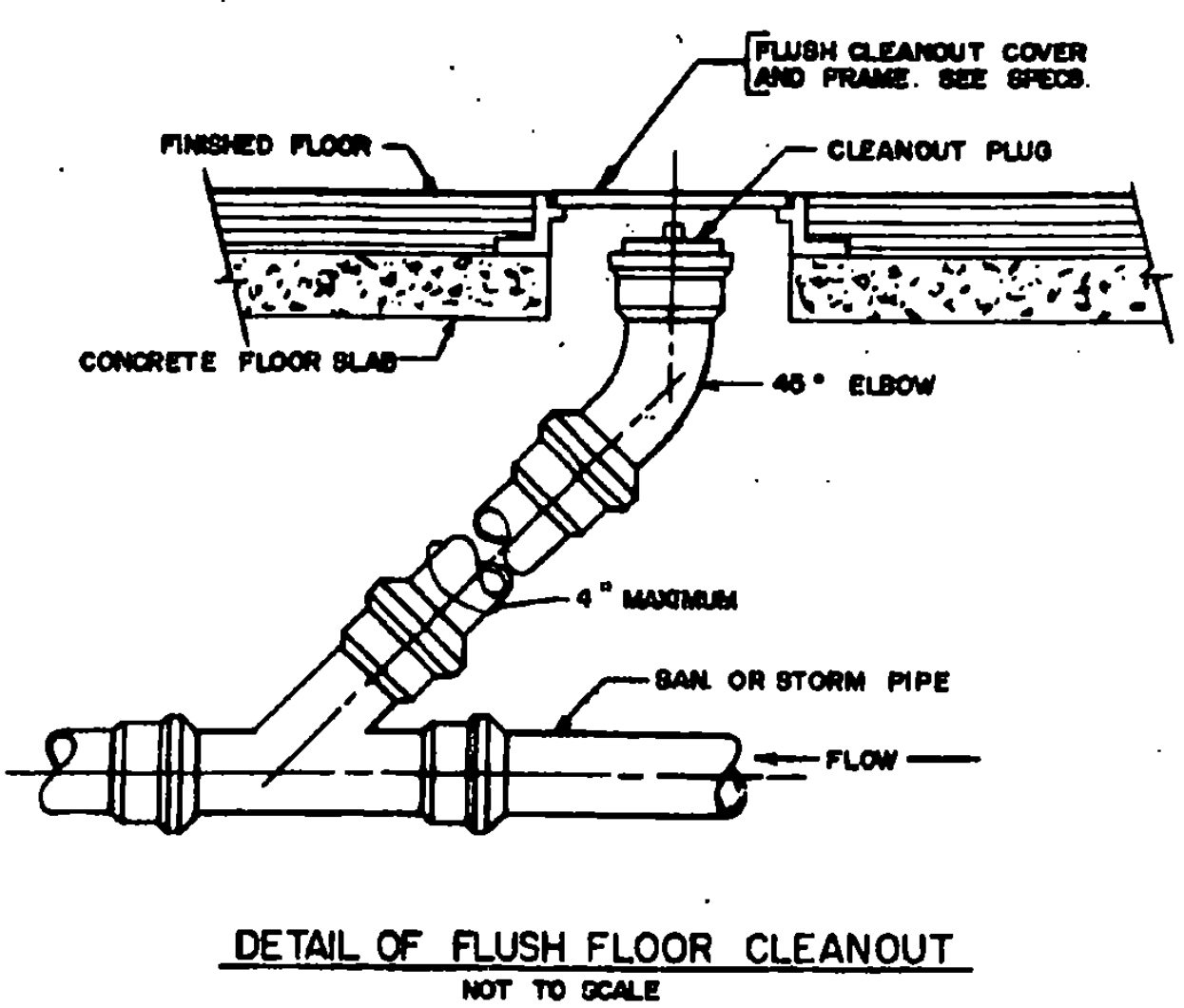
SITE UTILITIES LEGEND	
	UTILITY POLE
	EXISTING ELECTRICAL LINE
	NEW ELECTRICAL LINE
	POLE LIGHT
	ELECTRIC METER
	UNDERGROUND WATER LINE
	UNDERGROUND SANITARY LINE
	CURB VALVE
	THRUST BLOCK
	FIRE HYDRANT
	PROPERTY LINE



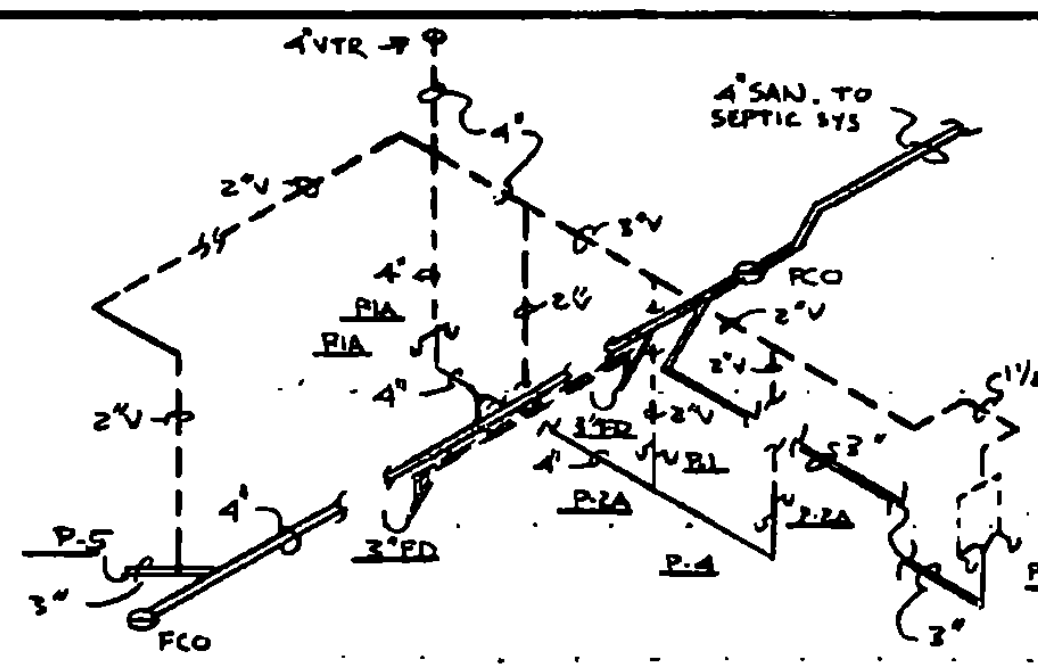
STATE OF VERMONT  
 DEPARTMENT OF STATE BUILDINGS  
 AGENCY OF ADMINISTRATION  
 MONTPELIER, VERMONT

**ALBURG WELCOME CENTER**  
**ALBURG**  
 SITE UTILITIES - SITE PLAN, LEGENDS & DETAILS

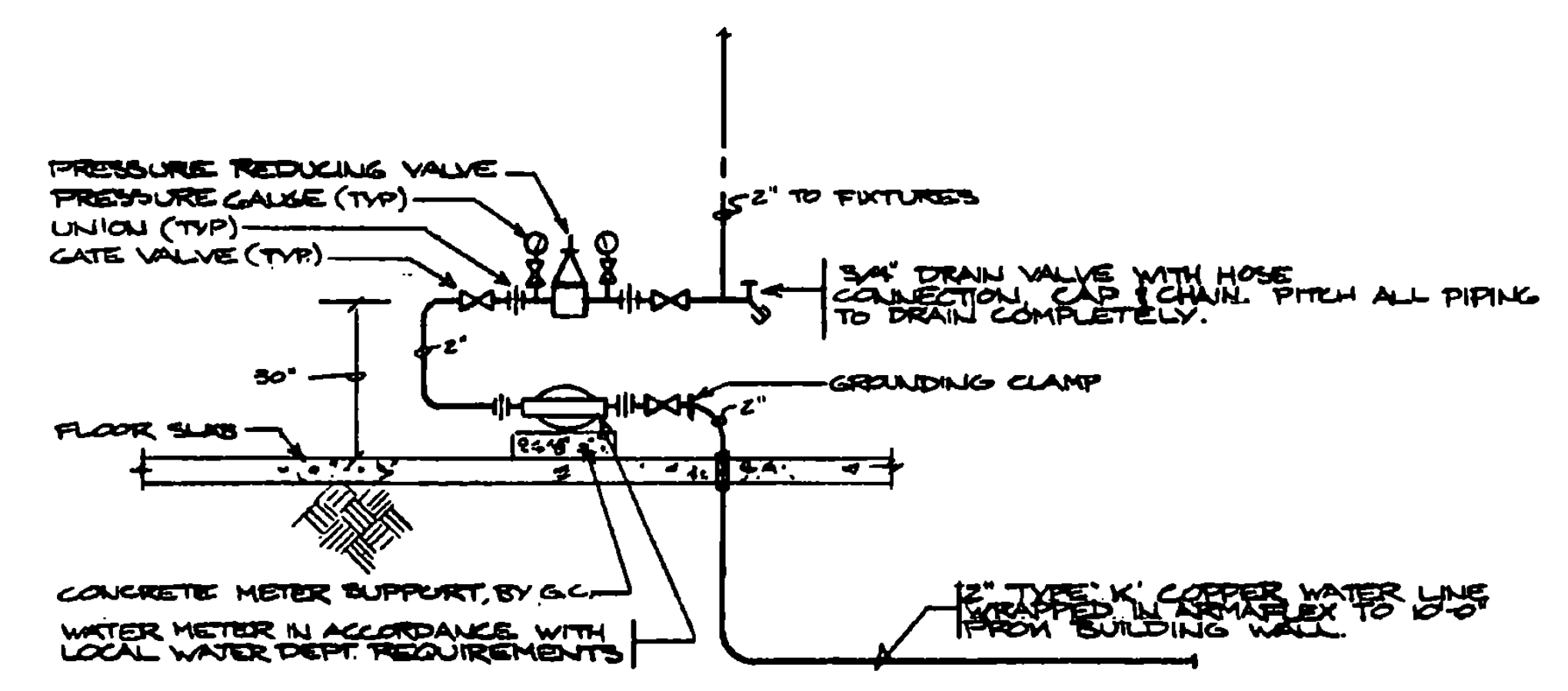
DATE: 3-19-96	SCALE: AS NOTED	REVISIONS: 5-16-96	DWG. NO. U-1
DRAWN BY: ON	PROJECT NO. NH 028-1(17)S		10 of 21



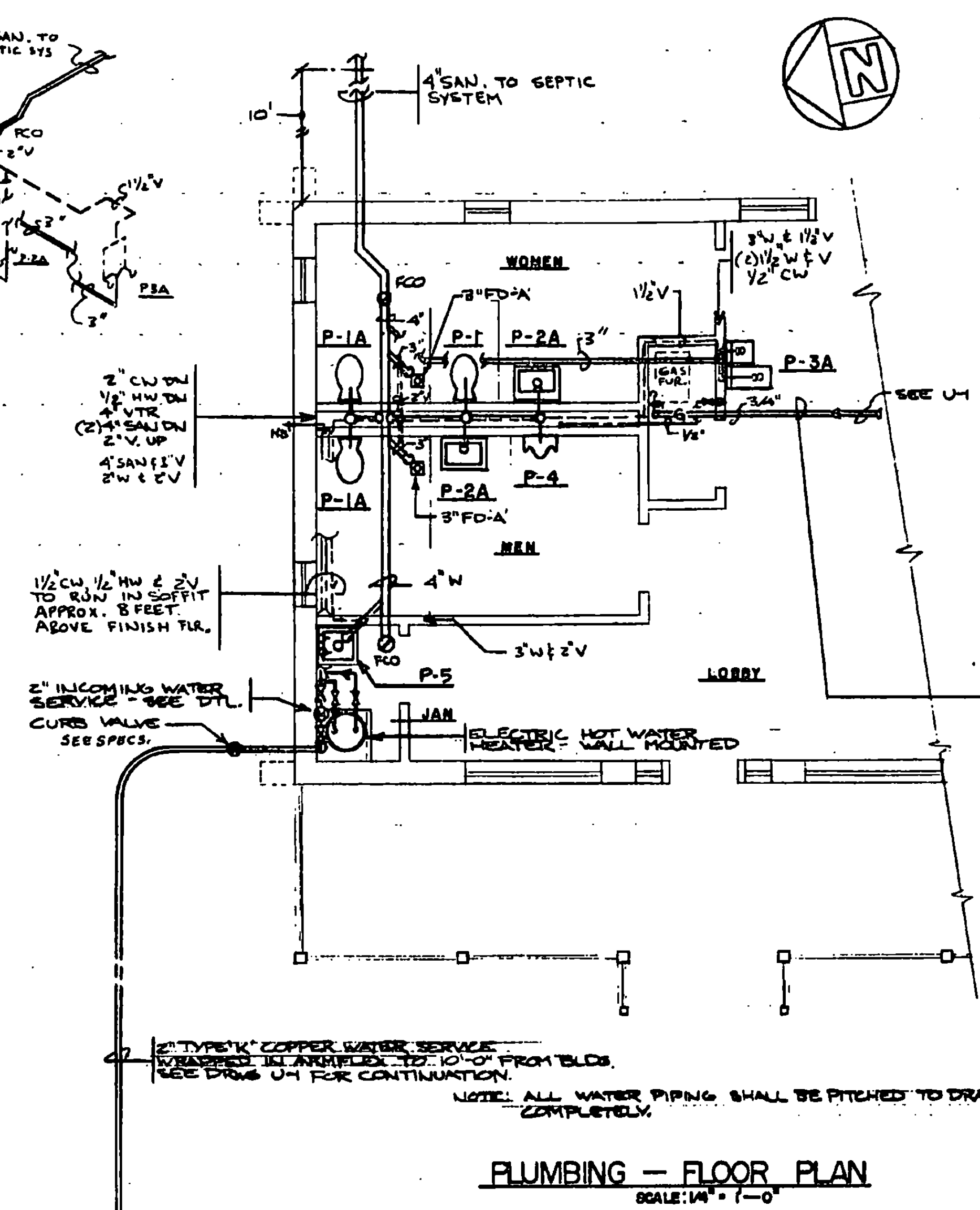
DETAIL OF FLUSH FLOOR CLEANOUT  
NOT TO SCALE



SANITARY & VENT  
ISOMETRIC DIAGRAM  
NOT TO SCALE



INCOMING WATER SERVICE DETAIL  
NOT TO SCALE



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

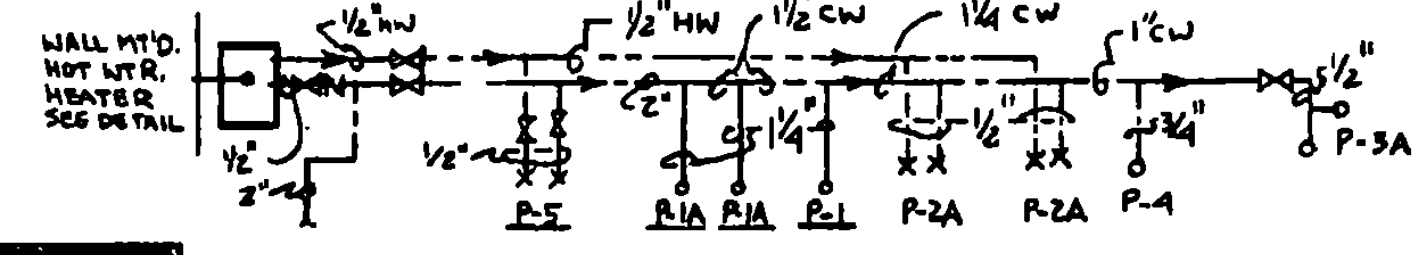
**PLUMBING LEGEND**  
SYMBOLS USED ARE INDICATED BY A CHECK (✓)

✓	SANITARY OR WASTE LINE (ABOVE GROUND)
✓	SANITARY OR WASTE LINE (BELOW GROUND)
✓	STORM LINE (ABOVE GROUND)
✓	STORM LINE (BELOW GROUND)
✓	GAS LINE - C.L.P. (A.S.)
✓	COMPRESSED AIR LINE
✓	FIRE LINE
✓	VENT LINE (ABOVE GROUND)
✓	VENT LINE (BELOW GROUND)
✓	COLD WATER LINE (ABOVE GROUND)
✓	COLD WATER LINE (BELOW GROUND)
✓	HOT WATER LINE
✓	HOT WATER RECIRCULATING LINE
✓	CLEAN OUT
✓	FLOOR CLEAN OUT
✓	WALL HYDRANT OR HOSE BIBB
✓	CLOSE VALVE
✓	CHECK VALVE
✓	BATE VALVE
✓	FLOOR DRAIN WITH TRAP
✓	NEW
✓	EXISTING
✓	POINT OF PLUMBING CONNECTION TO
✓	SAN. SANITARY LINE
✓	ST. STORM LINE
✓	V. VENT LINE
✓	W. WASTE LINE
✓	T. TRAP
✓	R.D. ROOF DRAIN
✓	R.L. ROOF LEADER

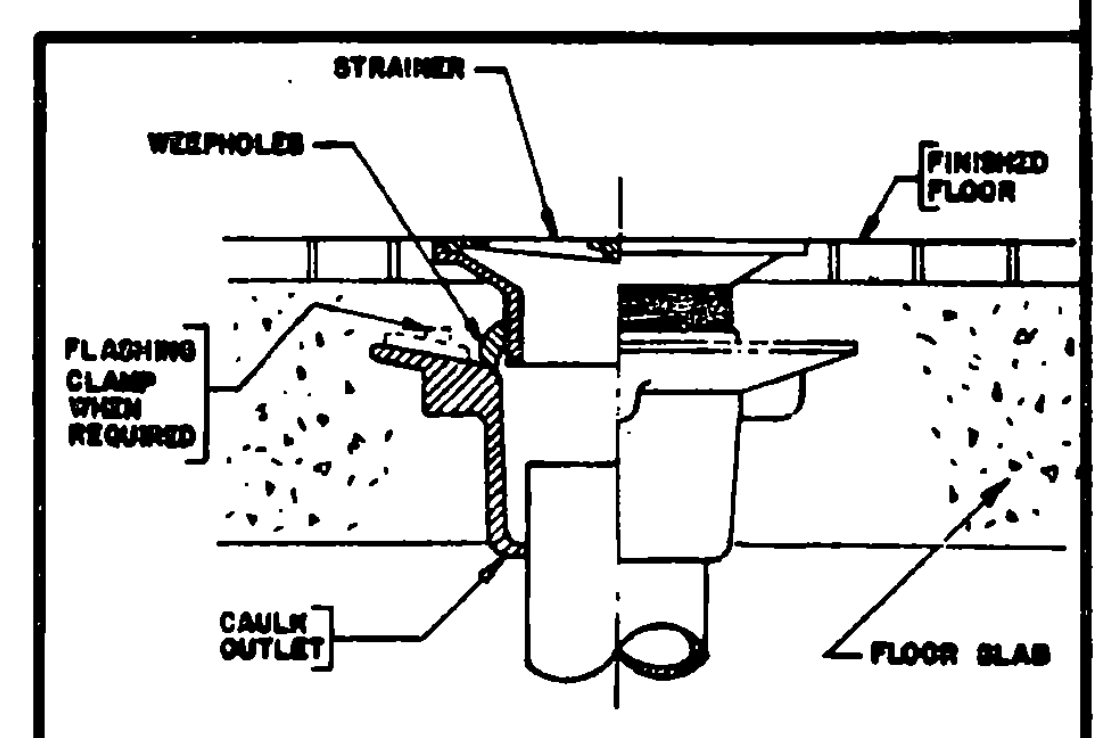
RUN 3/4" TYPE 'L' COPPER W/ 3/4" ARMORFLEX IN 5" GALVANIZED STEEL CONDUIT W/ LONG ELBOWS UNDER BUILDING. (BY PLUMBING CONTR.) RUN UP INTO MECH. ROOM & CONNECT 3/4" STEEL GAS PIPING. (SEE SPEC.) W/ GAS SHUT OFF & DIRT LEG. TO GAS-FIRED HOT AIR FURNACE (FURNACE BY H&V CONTRACTOR)

**PLUMBING FIXTURE & RUNOUT SCHEDULE**

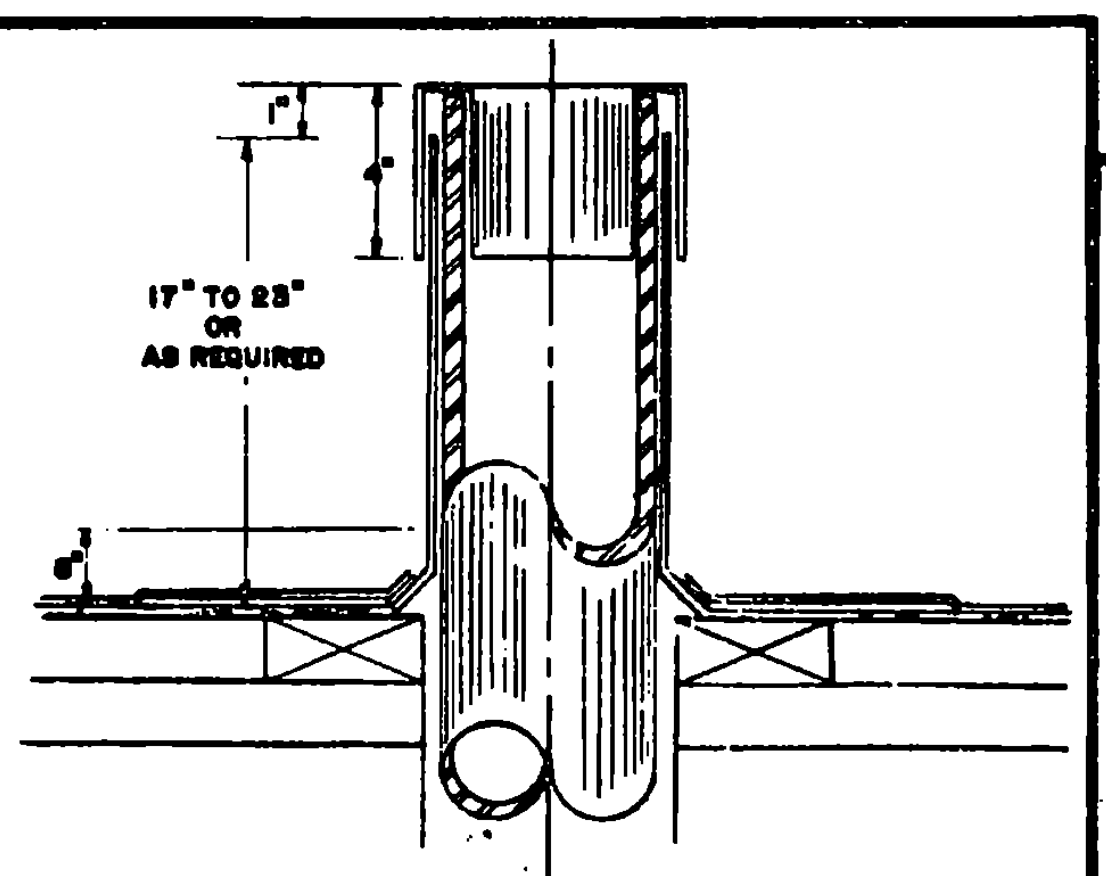
MARK	FIXTURE	DESCRIPTION	COLD WATER	HOT WATER	WASTE	VENT
P-1	P-1A	WATER CLOSET (REG. USE) WATER CLOSET (HANDI-CAP USE)	1/4"	1/2"	4"	2"
P-2	P-2A	LAVATORY (WALL HUNG) HANDI-CAP USE DRINKING FOUNTAIN (W/LOW) HANDI-CAP	1/2"	1/2"	2 1/2"	1 1/2"
P-3	P-3	URINAL (WALL HUNG) JANITOR SINK	1/4"	1/2"	3"	2"



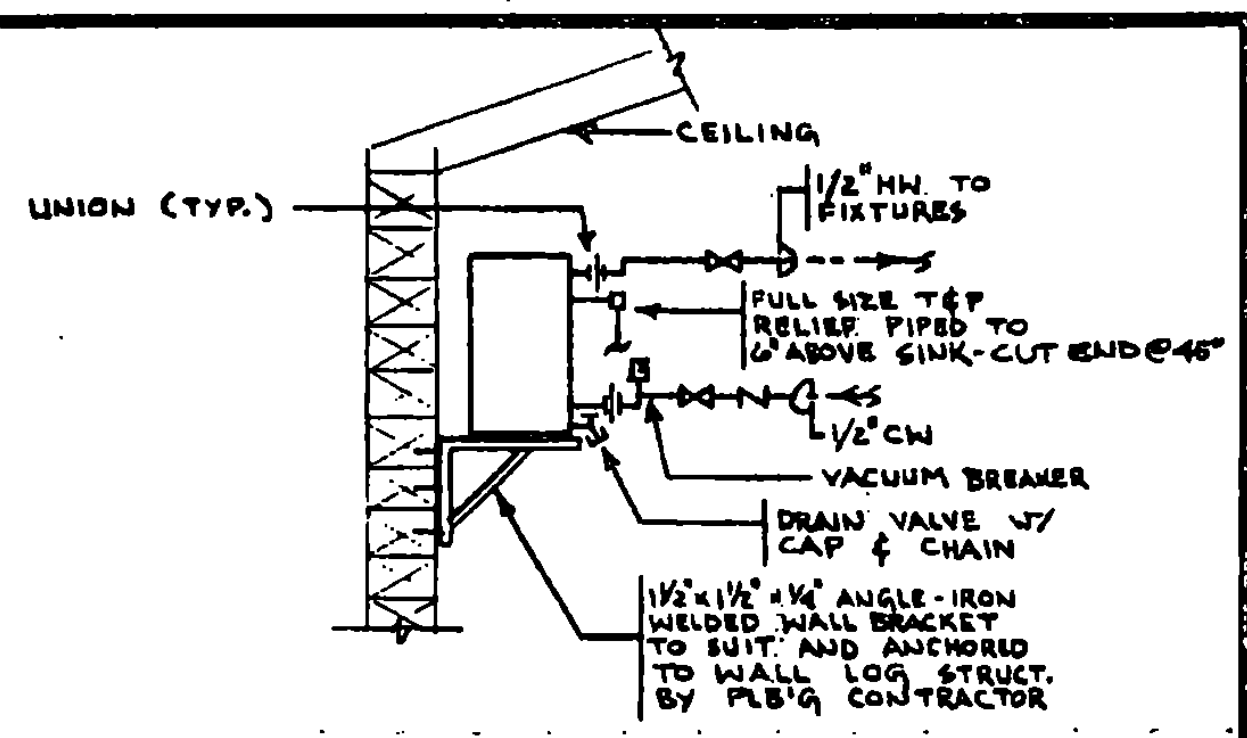
HOT & COLD WATER RISER DIAGRAM  
NOT TO SCALE



FLOOR DRAIN DETAIL  
NOT TO SCALE



ROOF VENT DETAIL  
NOT TO SCALE



DOMESTIC HOT WATER HEATER DETAIL  
NOT TO SCALE

STATE OF VERMONT  
DEPARTMENT OF STATE BUILDINGS  
AGENCY OF ADMINISTRATION  
MONTPELIER, VERMONT

**ALBURG WELCOME CENTER**  
ALBURG  
PLUMBING - PARTIAL FLOOR PLAN,  
DETAILS, SCHEDULES, DIAGRAMS & LEGENDS

DATE: 3-19-76  
SCALE: AS NOTED  
REVISIONS: 4-14-76  
DRAWN BY: GN, KA  
PROJECT NO.: NH 028-1075

DWG. NO.: P-1  
11 of 21

**HEATING & VENTILATING LEGEND**

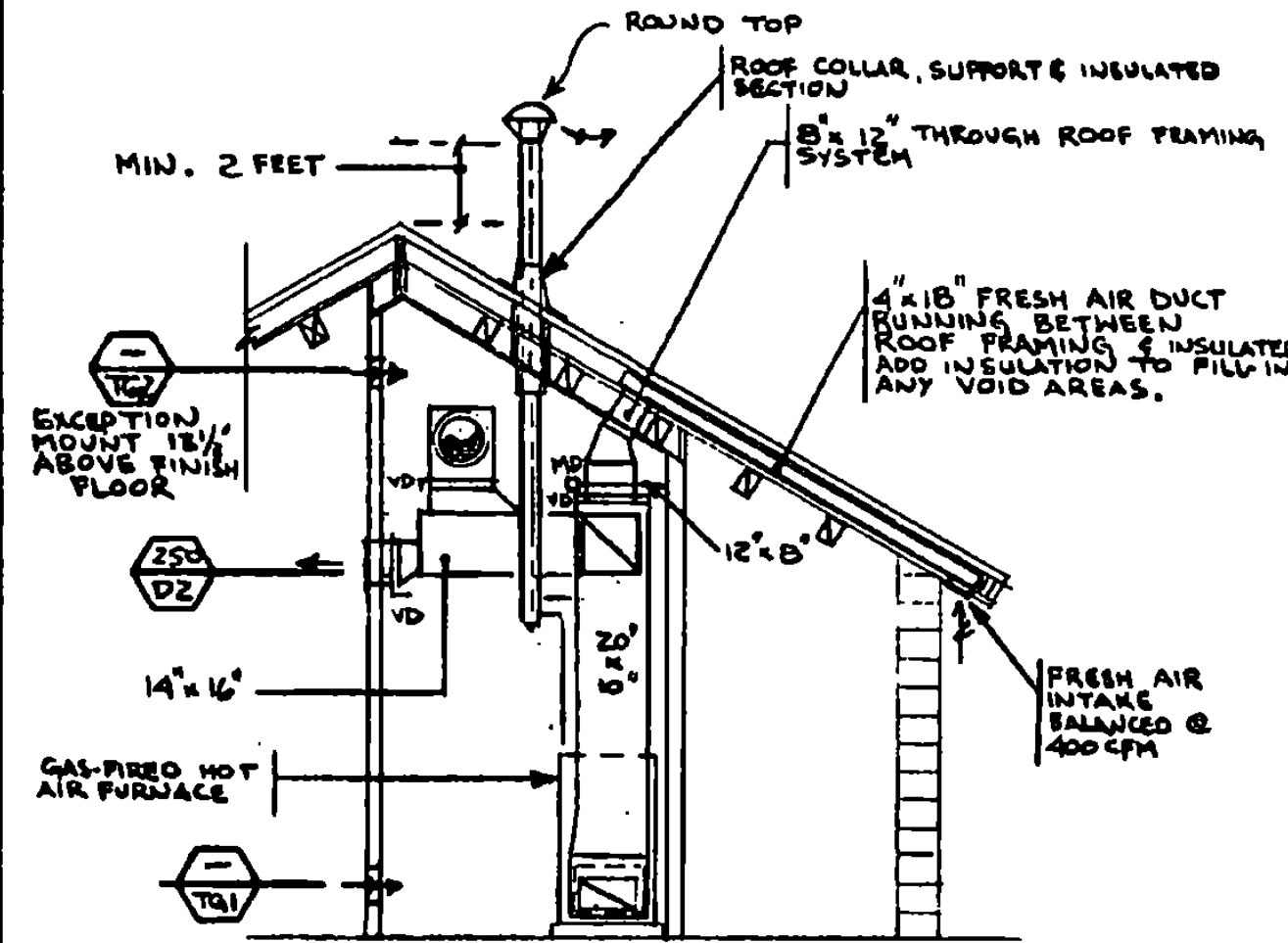
- AIR SUPPLY
- ← AIR EXHAUST OR RETURN
- VDI VOLUME DAMPER
- MD-D MOTORIZED DAMPER
- ARR ABOVE FINISH FLOOR TO CENTER LINE OF ITEM
- ⊕ TRANSFER GRILLE
- ⊖ THERMOSTAT
- ⊕ BALANCED CFM GRILLE DIFFUSER & REGISTER SYMBOL NO IN SCHEDULE

**EQUIPMENT SCHEDULE: FURNISH & INSTALL THE FOLLOWING:**

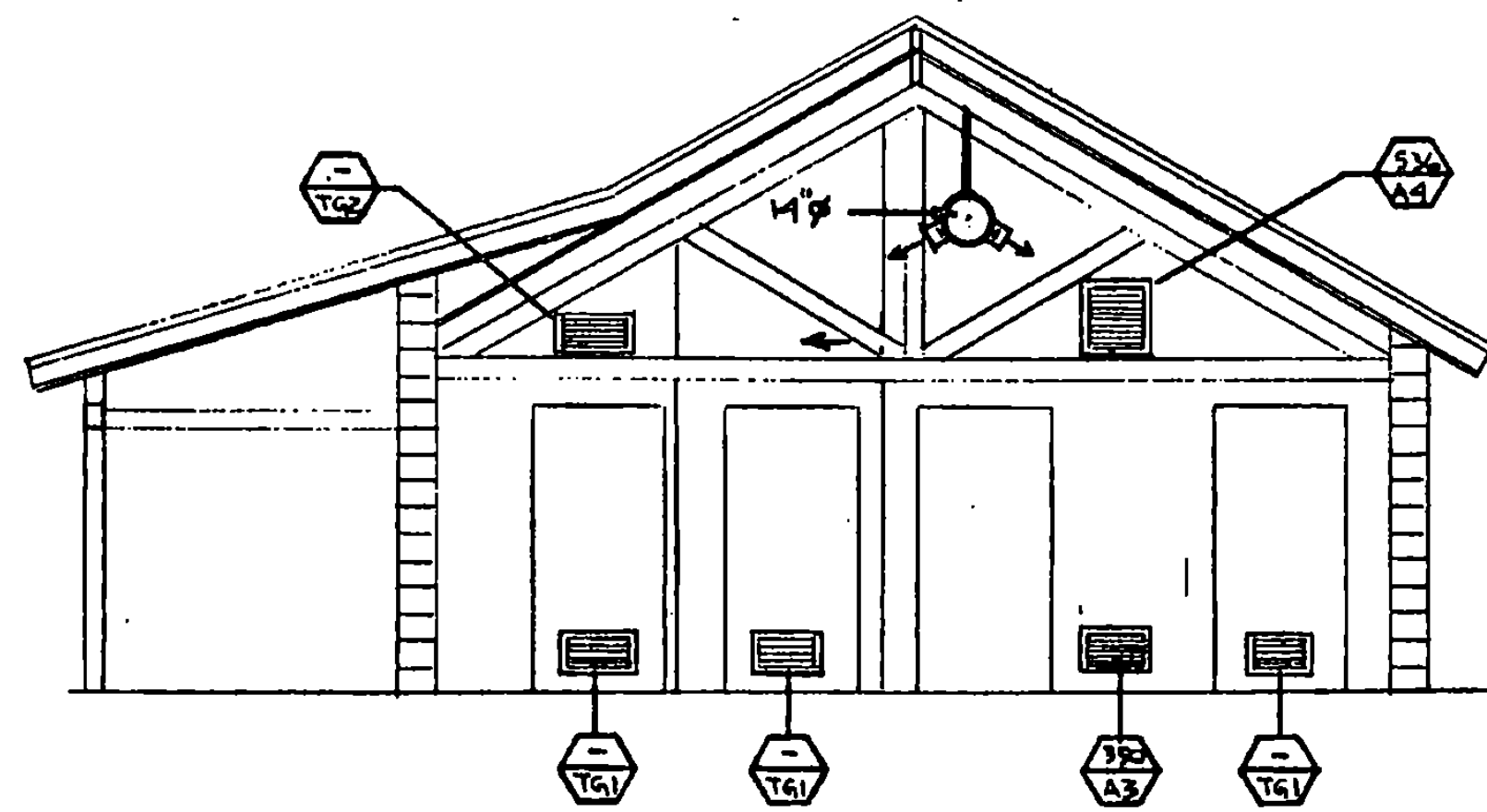
- GAS-FIRED HOT AIR FURNACE** - GAS-FIRED FURNACE RATED AT 75 MBH LPG INPUT, 60 MBH OUTPUT, 1236 CFM @ 5" STATIC PRESSURE, 1/3 HP - 120 VOLT SINGLE PHASE W/ 4 SPEED SETTINGS, WIRED TO MED. HIGH SETTING, FURNISH W/ VENT DAMPER & FILTER, UNIT MANUFACTURED BY THERMO PRIDE - HIGHBOY MODEL NO. 2WA-75 SECTIONAL UNIT (SEE SPEC.)
- ROOF EXHAUST FAN #1** - BELT-DRIVE ROOF MOUNTED EXHAUST FAN W/ PITCH ROOF CURB RATED @ 314 CFM, 3/8" S.P., 1/4 HP MOTOR, 1170 RPM WITH FAN HOUSING DISCONNECT SWITCH & MOTORIZED DAMPER, AS MANUFACTURER BY GREENHECK MODEL NO. 98-80-A (SEE SPEC.)

DIFFUSER, GRILLE & REGISTER SCHEDULE							LETTER
NO.	MAKE AND MODEL NO.	MOUNTING HEIGHT TO CENTER	NECK SIZE	OPPOSED BLADE DAMPER	CFM RANGE	AIR PATTERN	REMARKS
A1	TITUS #33RL	8'-6"	12" x 8"	YES	100 - 150	30° DEFLC.	ALL STEEL HEAVY DUTY
A2	#33RL	8'-6"	10" x 8"	YES	45 - 92	30° DEFLC.	
A3	#30RL	10"	18" x 8"	YES	350 - 475	0° DEFLC.	
A4	#30RL	9'-6"	18" x 18"	YES	500 - 850	0° DEFLC.	
D1	#272RL	10'-6"	12" x 6"	YES	90 - 195	DOUBLE DEFLECTION	ALUMINUM
D2	#272RL	9'-0"	12" x 12"	YES	250 - 400		
D3	#272RL	11'-6"	18" x 6"	YES	170 - 250		
TG1	TRANSFER GRILLE # T-700	14"	18" x 8"	N/A	-	SIGHT PROOF	ALL STEEL FLANGE & BORDER
TG2	# T-700	9'-0"	18" x 8"	N/A	-	SIGHT PROOF	

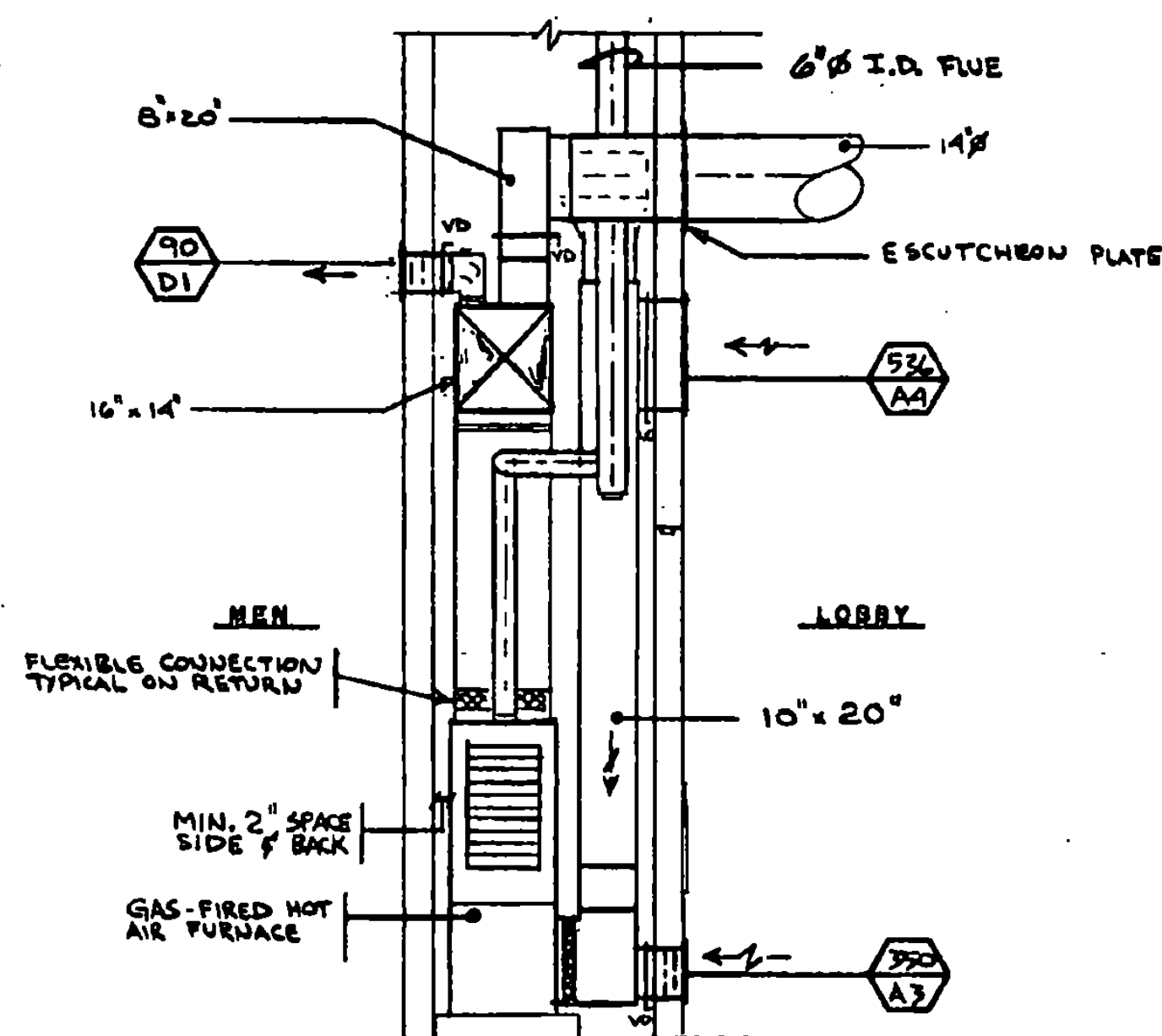
NOTE: MOUNTING HEIGHTS NOTED FROM FINISH FLOOR TO CENTER OF GRILLE.



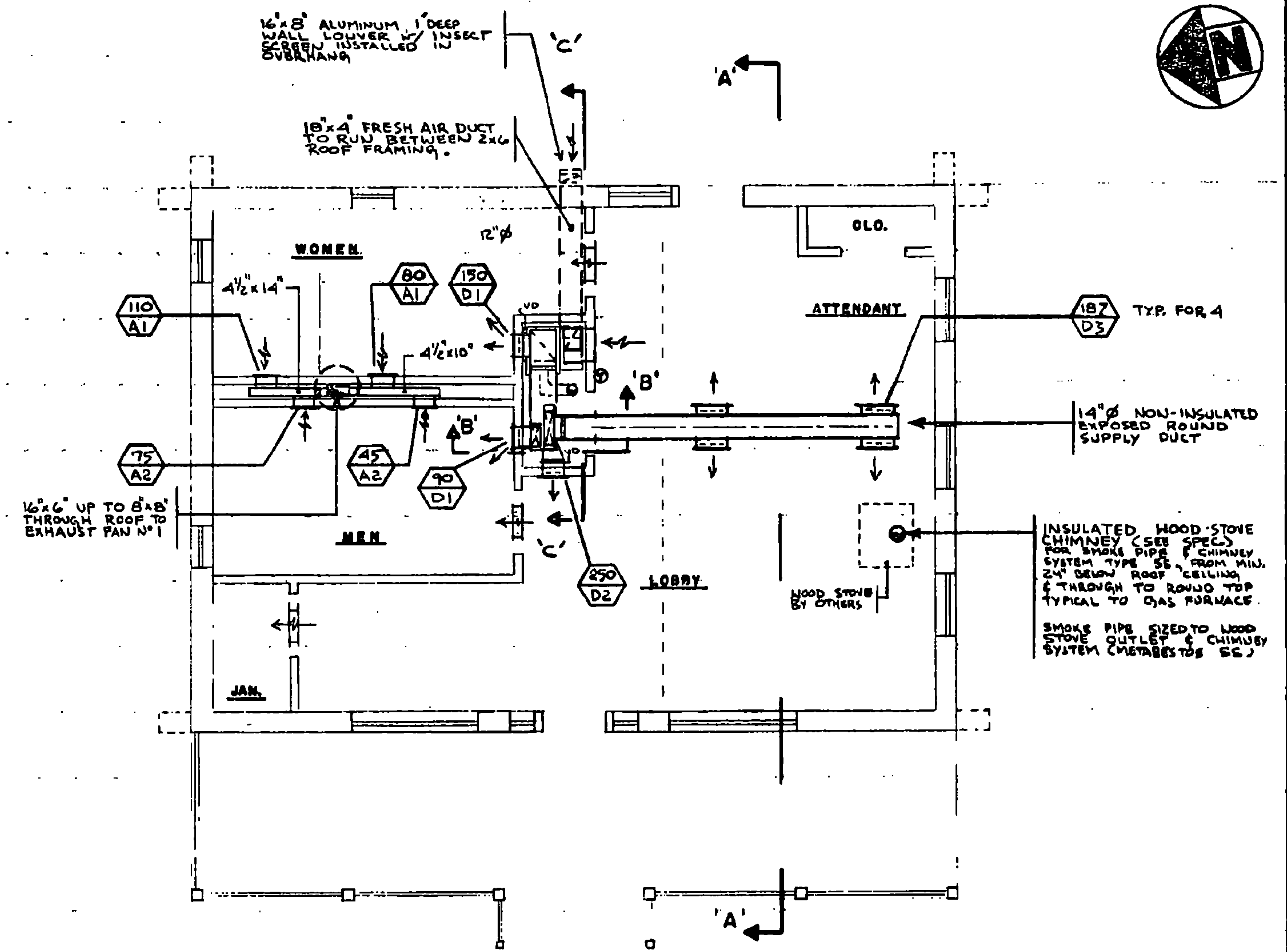
SECTION 'C-C'  
SECTION 'C'-C'  
SCALE: 1/4" = 1'-0"



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



SECTION 'B-B'  
SCALE: 1/2" = 1'-0"

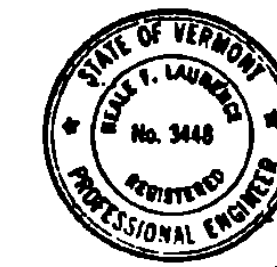


HEATING & VENTILATING - FLOOR PLAN  
SCALE: 1/4" = 1'-0"

STATE OF VERMONT  
DEPARTMENT OF STATE BUILDINGS  
AGENCY OF ADMINISTRATION  
MONTPELIER, VERMONT

ALBURG WELCOME CENTER  
ALBURG  
HEATING & VENTILATING - FLOOR PLAN, LEGEND, SECTIONS & NOTES

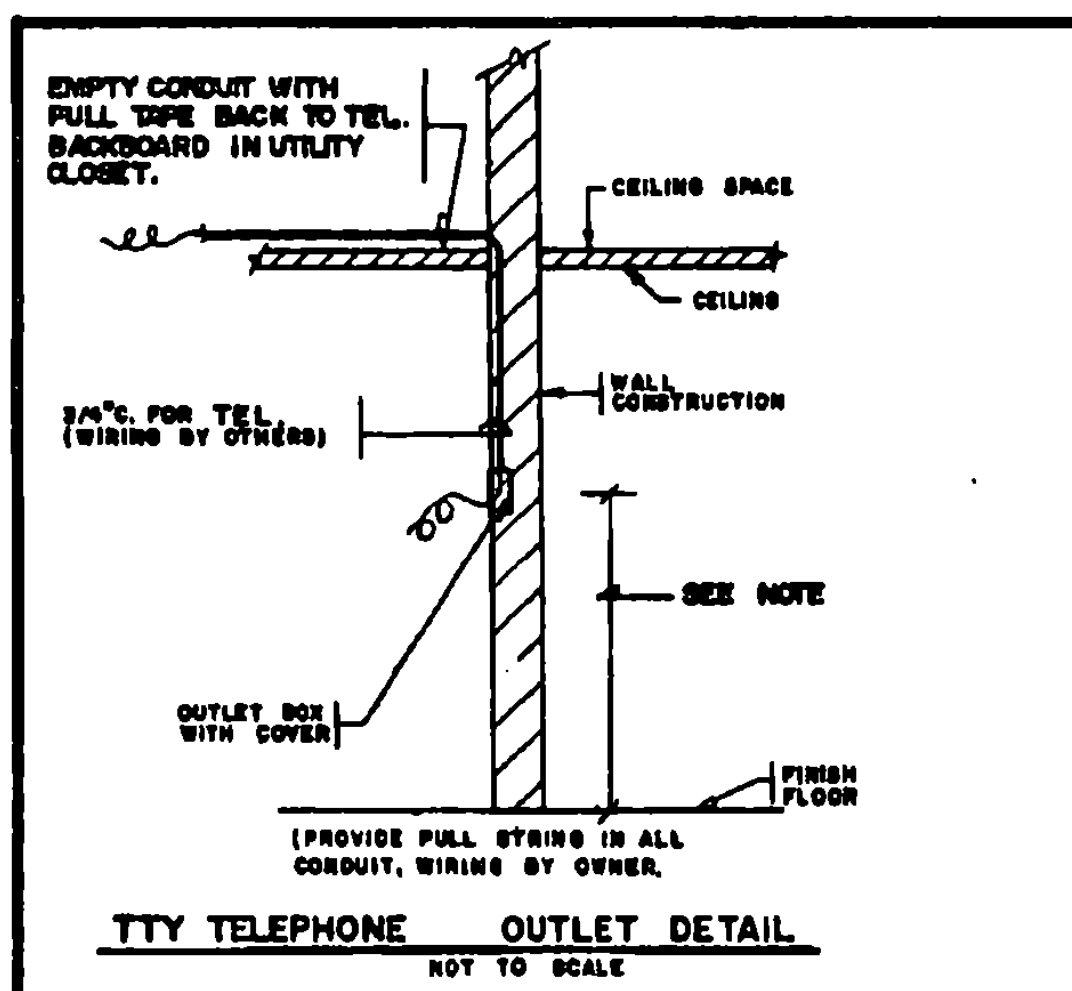
DATE: 3-19-75	SCALE: AS NOTED	REVISIONS: 5/16-76	DWG. NO. HV-1
DRAWN BY: KA	PROJECT NO. NH02B-K(7)S		12 of 21



ELECTRICAL LEGEND	
SYMBOLS USED ARE INDICATED BY A CHECK	
✓	⊕ JUNCTION BOX
✓	⊖ SINGLE RECEPTACLE 18" A.F.F.
✓	⊖ DUPLEX RECEPTACLE 18" A.F.F.
✓	⊖ DUPLEX GFI RECEPTACLE 20" A.F.F.
✓	⊖ TRACK LIGHT HEAD
✓	⊖ POWER PANEL
✓	⊖ FIRE-O-MATIC
✓	⊖ TELEPHONE OUTLET 18" AFF
✓	⊖ MOTOR STARTER
✓	⊖ DISCONNECT
✓	⊖ FIRE HORN & LIGHT
✓	⊖ TRANSFORMER
✓	⊖ HOME RUN TO PANEL P (MIN. 3/4" CONDUIT)
✓	⊖ CONDUIT TURNING UP
✓	⊖ CONDUIT TURNER UP
✓	⊖ EXIT LIGHT
✓	⊖ FLUORESCENT LIGHT
✓	⊖ BATTERY POWERED EMERGENCY LIGHT
✓	⊖ POINT OF ELEC. CONNECTION TO [E]
✓	⊖ NEW
✓	⊖ EXISTING
✓	⊖ SINGLE POLE SWITCH 48" A.F.F.
✓	⊖ THREE-WAY SWITCH 48" A.F.F.
✓	⊖ A.F.F. ABOVE FINISHED FLOOR
✓	⊖ A.F.C. ABOVE FINISHED COUNTER
✓	⊖ INCANDESCENT CEILING LIGHT
✓	⊖ NIGHT LIGHT
✓	⊖ DUPLEX RECEPTACLE IN FLOOR
✓	⊖ CLOCK OUTLET 7'-0" AFF
✓	⊖ SM - MOTOR THERMAL SWITCH
✓	⊖ A.M.U. AIRHANDLING UNIT
✓	⊖ TTY TTY TELEPHONE OUTLET
✓	⊖ COMPUTER OUTLET 18" AFF.

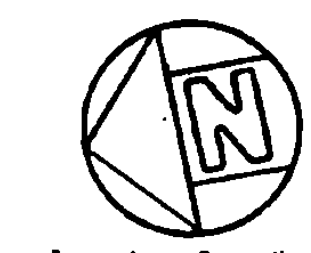
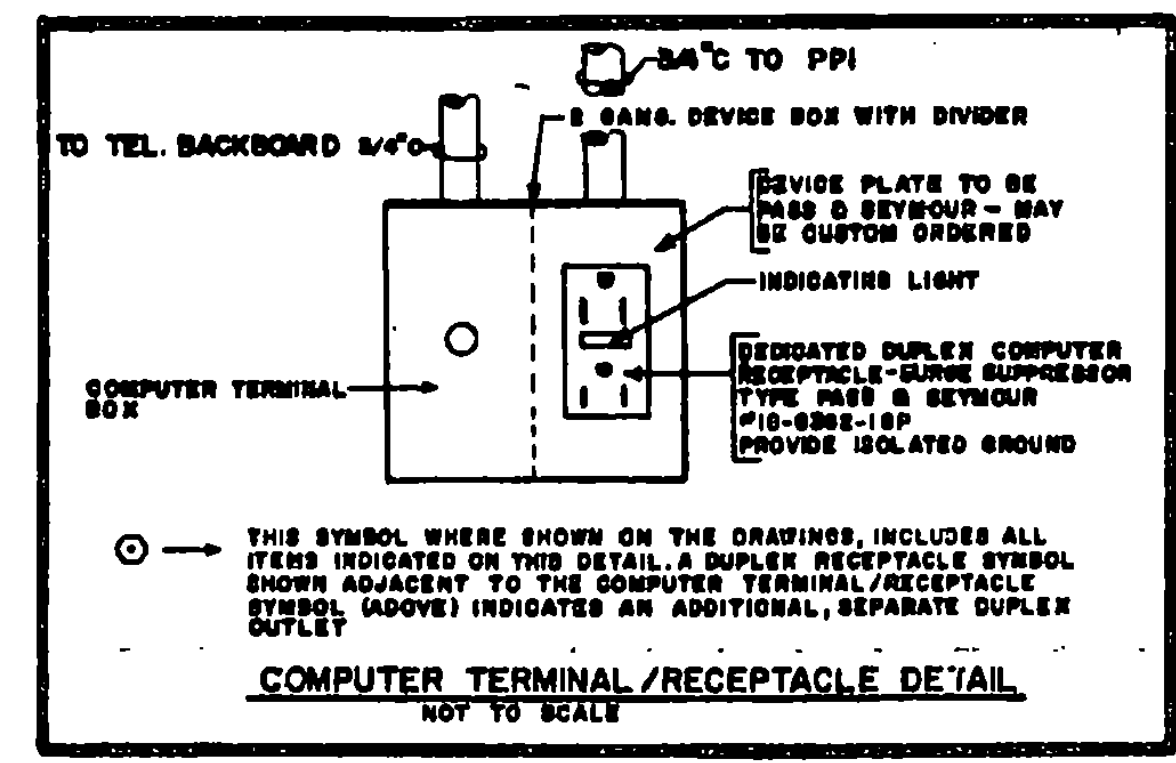
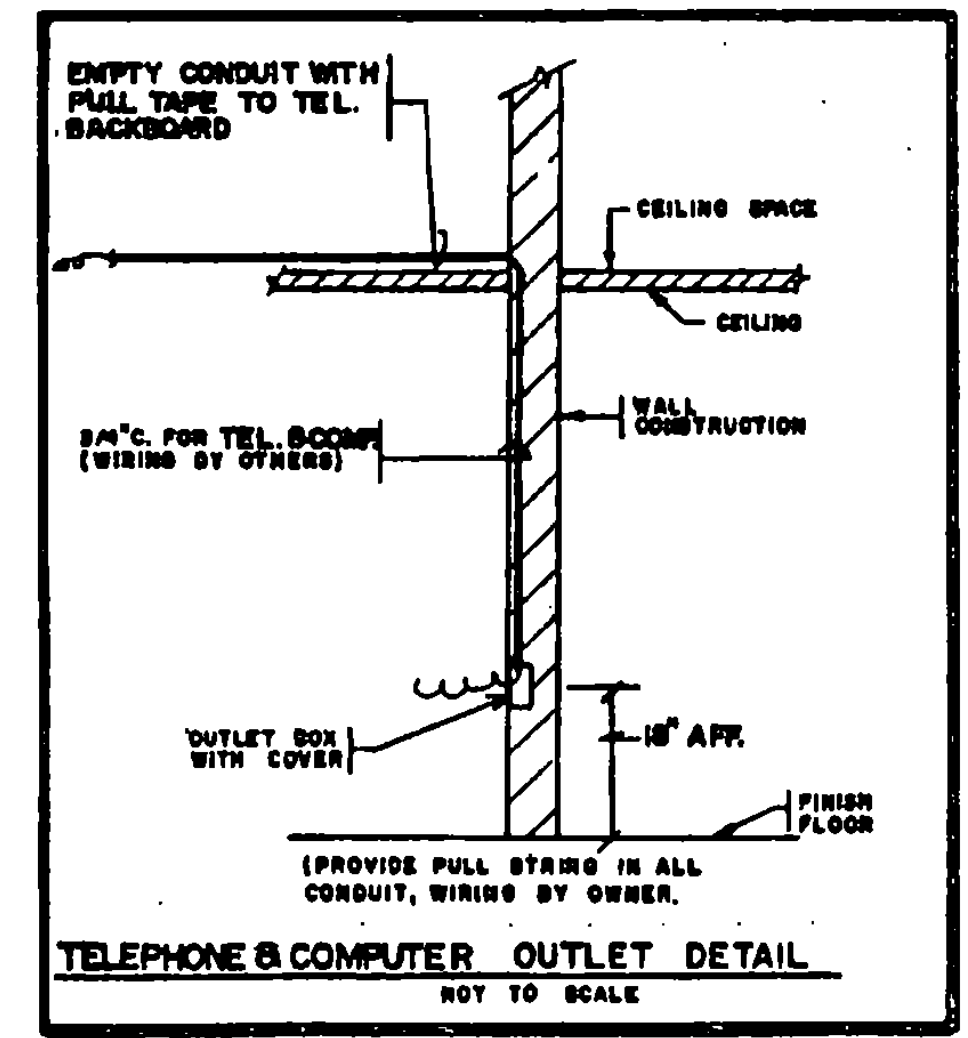
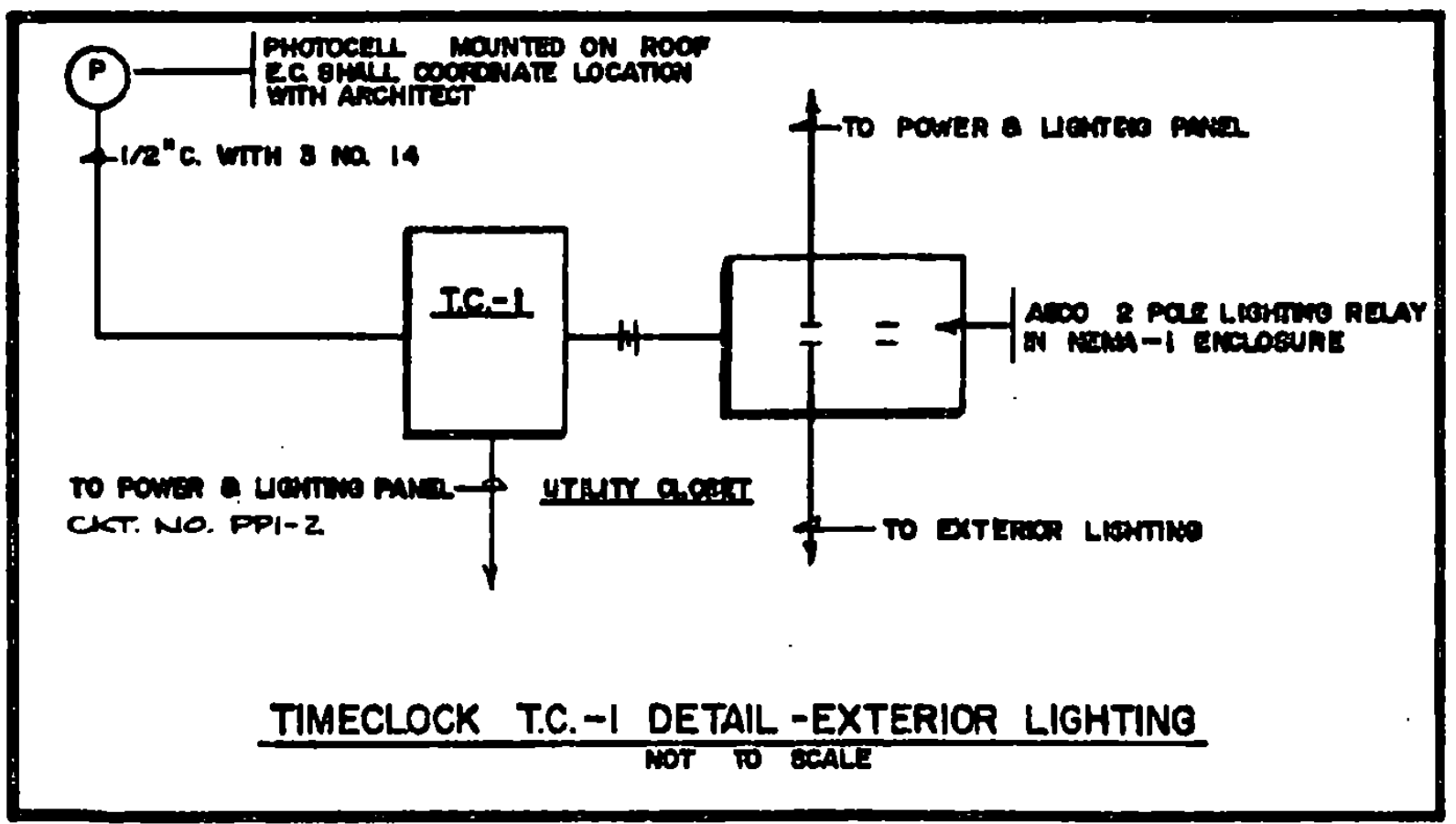
LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER & DESCRIPTION	LAMPS	MOUNTING	FINISH	REMARKS	
A	DAY-O-LITE HANDEL PROOF NO. VFR-240-VR PROVIDE MOUNTING STEMS OR AIRCRAFT CABLE	2-32 F-32 T-8 R. S.	SUSPENDED BOTTOM OF FIXTURES 9'-0" AFF MINIMUM	WHITE	PROVIDE TAMPERPROOF SCREWS	
B	LOBBY PROGRESS NO. P5117-46	1-100 100W A-19	SUSPENDED BOTTOM OF FIXTURES 9'-0" AFF	GREEN SHADE POLISHED BRASS		
C	PORCH WELL LUMINAIRE PROGRESS NO. P6330-11	1-100 100W A-19	WELL 7'-6" AFF.	BRASS	PROVIDE TAMPERPROOF SCREWS	
D	TRACK LIGHTING PROGRESS NO. P6284-10	75 PAR 16	CEILING & WALL	BRASS	PROVIDE BRASS TRACKS (2) 8" & (1) 2" 7 HEADS	
E	EXIT SIGN FAILSAFE NO. EXT-1-RW-120-EBP	2-9 9W PL 81X	SURFACE COORDINATE WITH ARCH.	WHITE WITH RED LETTERS	INTERNAL EMER. BATTERY PACK & TAMPERPROOF SCREWS	
F	CLOSET LIGHT FAILSAFE NO. F80-14-120	2-7 7W P.L. 81X	WALL 7'-0" AFF.	OPAL/WHITE		
G						
H						

PANELBOARD SCHEDULE							
PANEL	BRANCH BREAKERS				BUS BARS	MTG.	REMARKS
	QTY.	FRAME	TRIP	POLES			
PPI	2	100	20	1	RECEPTACLES	100 A 2 P. 120/208	SEE U-8
	3	100	20	1	INTERIOR LIGHTING		SEE U-8
	3	100	20	1	MECHANICAL EQUIP.		SEE U-8
	3	100	20	1	SPARES		SEE U-8
	7				SPACES		SEE U-8
	1	100	100	2	MAIN BREAKER		SEE U-8



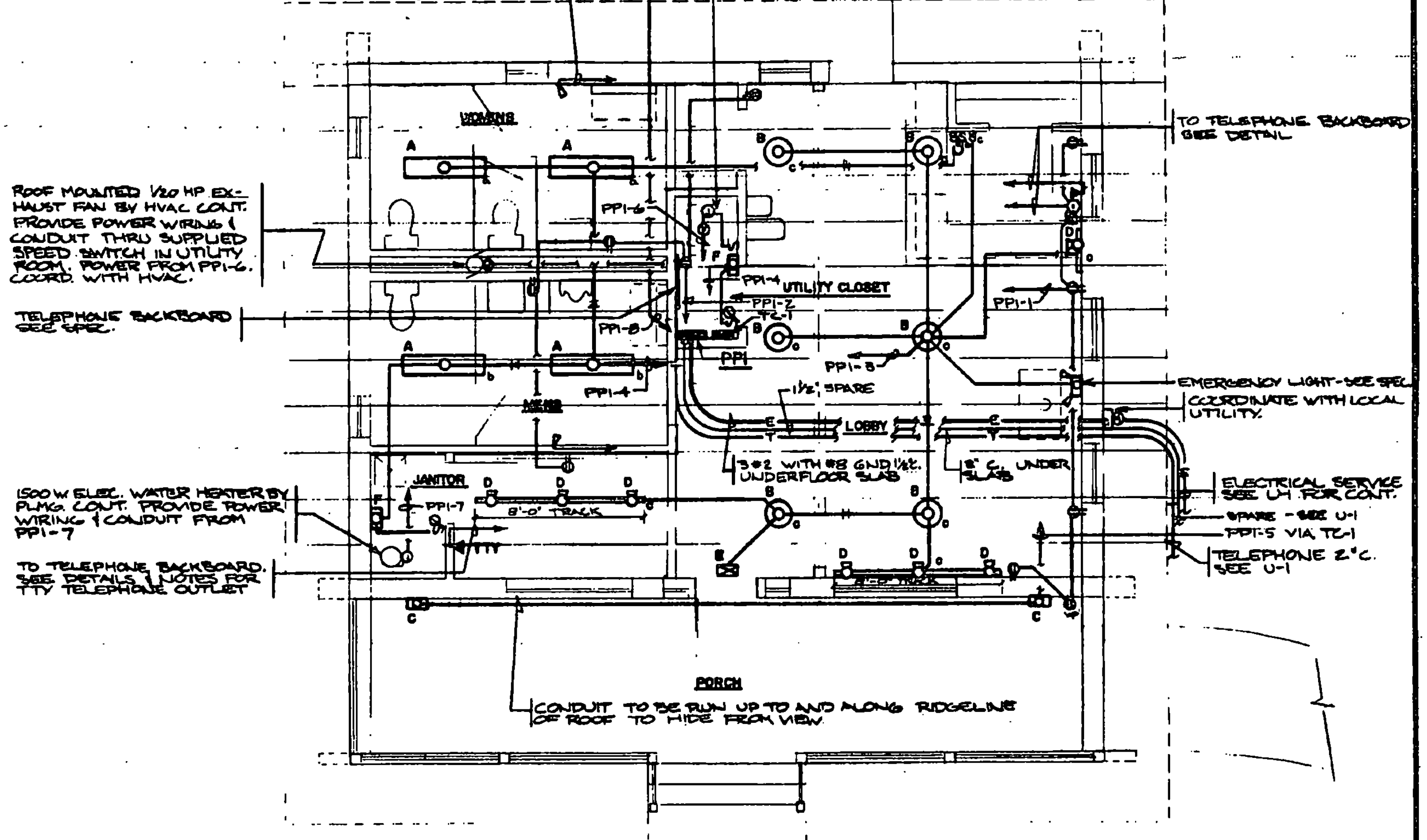
NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER BEFORE INSTALLING TELEPHONE OUTLET BOXES AND CONDUIT TO DETERMINE THE EXACT HEIGHT REQUIREMENTS OF EACH TELEPHONE CUPLET BOX. THESE HEIGHTS MAY VARY DEPENDING ON THE ACTUAL EQUIPMENT PURCHASED BY THE OWNER AND THE INDIVIDUAL TYPE AND ADA REQUIREMENTS OF EACH PHONE LOCATION. THE OWNER SHALL INFORM THE ELECTRICAL CONTRACTOR IN A TIMELY MANNER TO AVOID ANY WORK STOPPAGE OR DELAYS AS TO THE EXACT CHARACTERISTICS OF THE EQUIPMENT TO BE USED.



3/4" C W. 1/2" #8 GND FOR SERVICE TO SEWAGE PUMP STATION AND HIGH WATER ALARM. ALARM LOCATION TO BE DETERMINED BY OWNER. E.C. TO WIRE

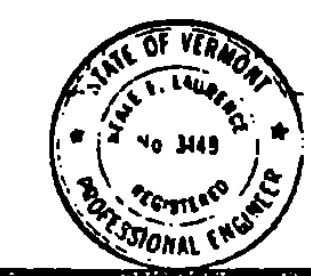
REMOTE EMERGENCY LIGHT FIXTURE HEAD. WIRE TO BATTERY UNIT. TYPICAL FOR MEN'S ROOM.



NOTES:

1. HVAC CONT. TO COORD. WITH ELEC. CONT. TO LOCATE TEMPERATURE CONTROL PANEL BELOW TC-1. PROVIDE POWER FROM PPI-2
2. ALL CONDUITS SHALL BE CONCEALED WHERE POSSIBLE. I.E. USE ROOF STRUCTURE, PARTITION, UNDER FLOOR SLAB, ETC., WHERE NOT POSSIBLE, I.E. SOLID LOS. SOUTH WALL. CONDUIT SHALL BE RUN NEATLY AND SQUARELY AND SECURED PAINT PER ARCH. REQUIREMENTS.
3. COORDINATE WITH LOCAL TELEPHONE CO. PHONE # 252-263-7911.

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



STATE OF VERMONT  
DEPARTMENT OF STATE BUILDINGS  
AGENCY OF ADMINISTRATION  
MONTPELIER, VERMONT

**ALBURG WELCOME CENTER  
ALBURG**

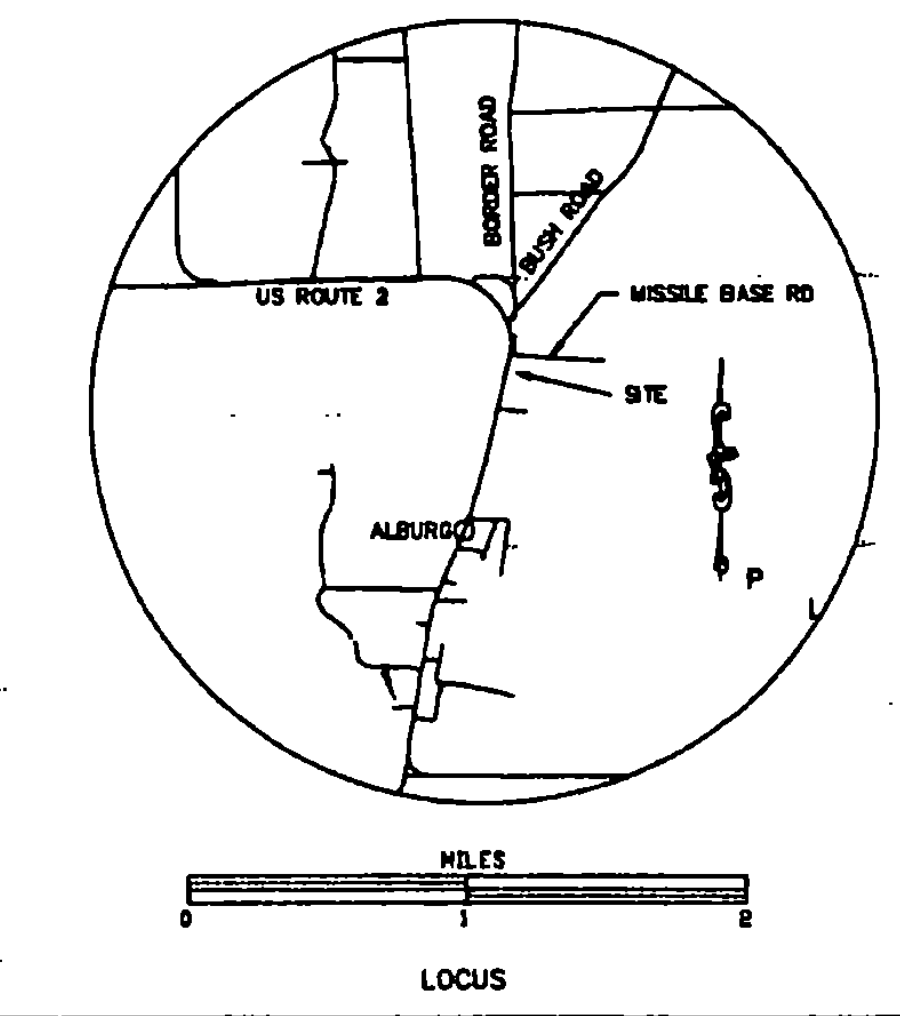
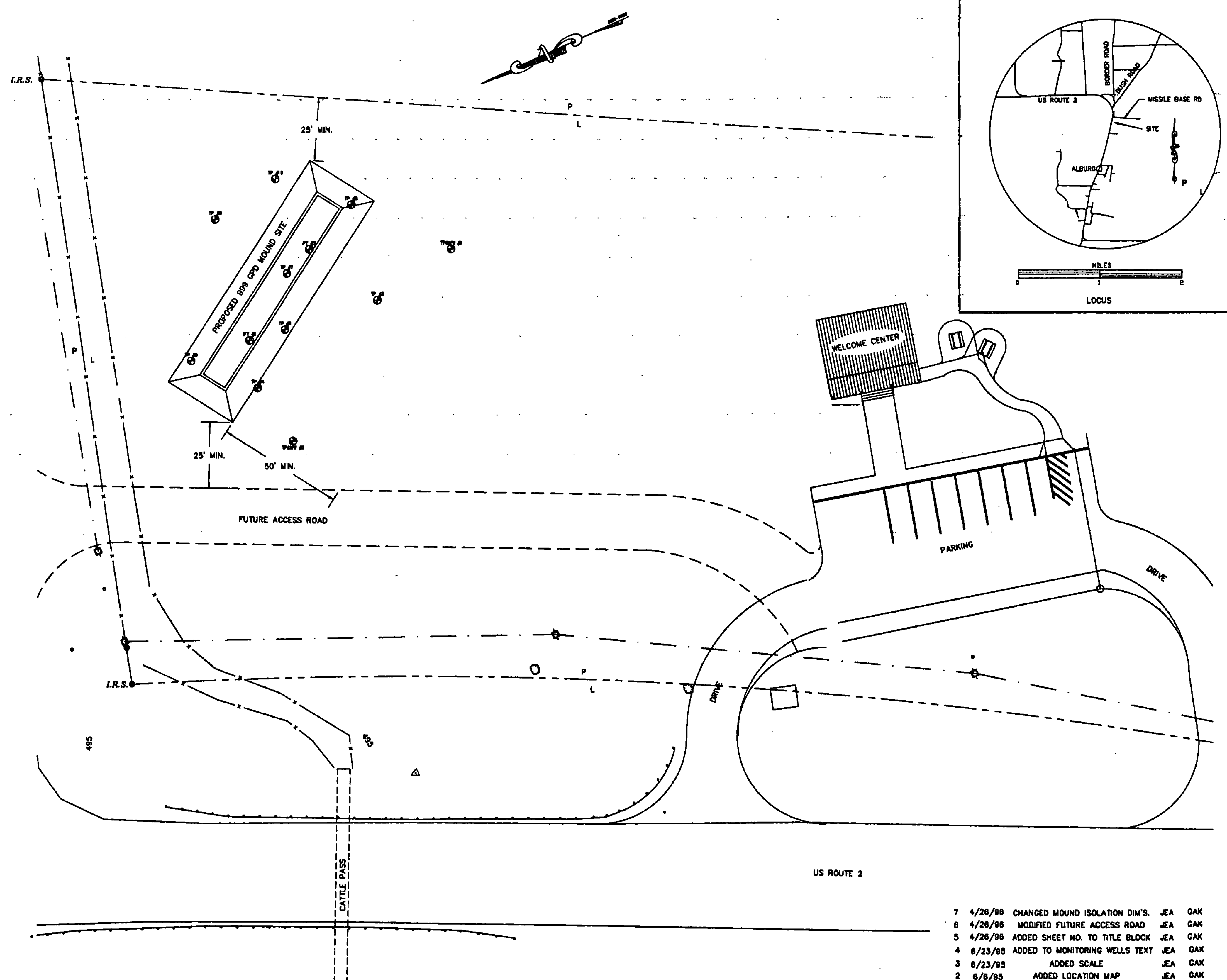
**ELECTRICAL - FLOOR PLAN,  
LEGEND, SCHEDULES & DETAILS**

DATE 3-9-96	SCALE AS NOTED	REVISIONS 2-10-96	DWG. NO. E-1
DRAWN BY GW	PROJECT NO. NH028-1117S	19 of 21	

TEST PITS			
TEST PIT #1			
HORIZON	DEPTHS	SOIL, MOTTLES, WATER, & COMMENTS	
A	0-12"	Dark brown topsoil	
B	12-45"	Fine sand/silt loam; mottles @ 18", saturated @ 32"; monitor installed	
TEST PIT #2			
HORIZON	DEPTHS	SOIL, MOTTLES, WATER, & COMMENTS	
A	0-12"	Dark brown topsoil	
B	12-46"	Fine sandy loam w/some silt; mottles @ 18", saturated @ 36"; monitor installed	
TEST PIT #3			
HORIZON	DEPTHS	SOIL, MOTTLES, WATER, & COMMENTS	
A	0-12"	Dark brown topsoil	
B	12-42"	Silty loam; mottles @ 23-24", saturated @ 32"	
TEST PIT #4			
HORIZON	DEPTHS	SOIL, MOTTLES, WATER, & COMMENTS	
A	0-12"	Dark brown topsoil	
B	12-36"	Fine sandy loam; no apparent mottles	
TEST PIT #5			
HORIZON	DEPTHS	SOIL, MOTTLES, WATER, & COMMENTS	
A	0-12"	Dark brown topsoil	
B	12-45"	Fine sandy loam; mottles @ 30"	
TEST PIT #6			
HORIZON	DEPTHS	SOIL, MOTTLES, WATER, & COMMENTS	
A	0-12"	Dark brown topsoil	
B	12-40"	Fine sandy loam; no apparent mottles; one of best holes	
TEST PIT #7			
HORIZON	DEPTHS	SOIL, MOTTLES, WATER, & COMMENTS	
A	0-12"	Dark brown topsoil	
B	12-43"	Fine sandy loam w/small stones; no apparent mottles; good hole	
TEST PIT #8			
HORIZON	DEPTHS	SOIL, MOTTLES, WATER, & COMMENTS	
A	0-12"	Dark brown topsoil	
B	12-42"	Fine sandy loam; distinct mottles @ 32"	
TEST PIT #9			
HORIZON	DEPTHS	SOIL, MOTTLES, WATER, & COMMENTS	
A	0-12"	Dark brown topsoil	
B	12-46"	Fine sandy loam w/many pcs. of small shale; no apparent mottles	
TEST PIT #10			
HORIZON	DEPTHS	SOIL, MOTTLES, WATER, & COMMENTS	
A	0-12"	Dark brown topsoil	
B	12-42"	Silty & fine sandy loam w/some pcs. of fractured shale	

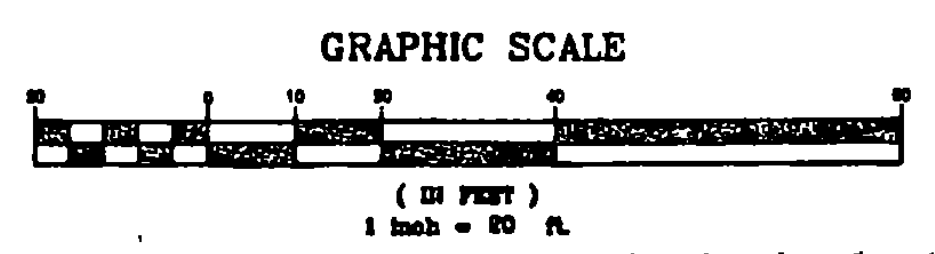
**PERCOLATION TEST**  
 TEST #1: Percolation rate - 15 minutes/inch  
 TEST #2: Percolation rate - 19 minutes/inch

**MONITORING WELLS**  
 Monitoring wells #1 and #2 were checked once each week beginning March 1, 1995. As of April 28, 1995, well #1 has been dry - depth 45". Highest water level observed in well #2 was 41" on March 24, 1995. Both holes were dry on June 23, 1995.



**LEGEND**

⊙ I.R.S.	IRON ROD SET
—	PROPERTY LINE
— P —	POWER LINE
— L —	PROPERTY LINE & FENCE
— x —	CATTLE FENCE
⊙	UTILITY POLE



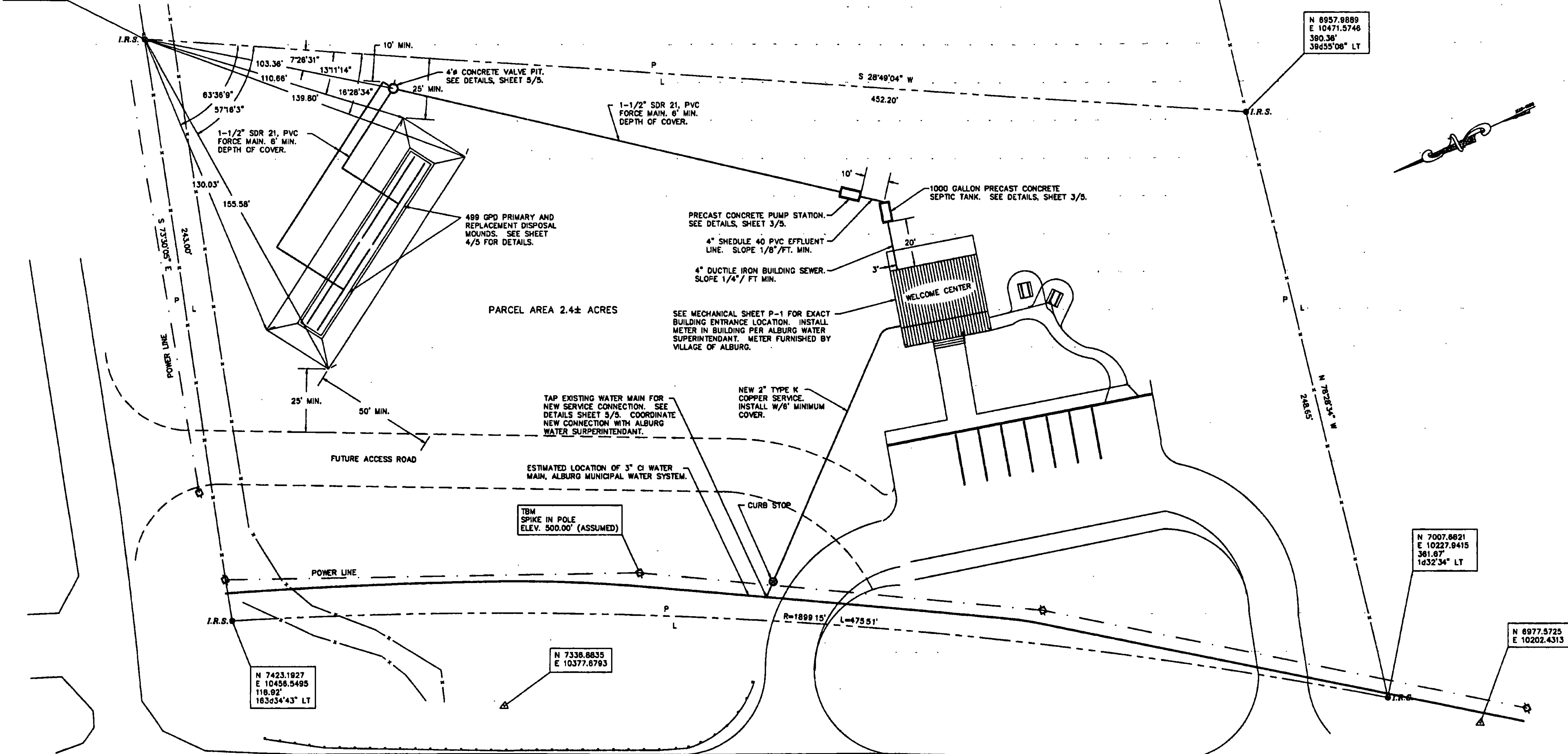
*Jon E. Allen*  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF VERMONT  
 No. 2334

7	4/28/95	CHANGED MOUND ISOLATION DIM'S.	JEA	GAK
6	4/28/95	MODIFIED FUTURE ACCESS ROAD	JEA	GAK
5	4/28/95	ADDED SHEET NO. TO TITLE BLOCK	JEA	GAK
4	6/23/95	ADDED TO MONITORING WELLS TEXT	JEA	GAK
3	6/23/95	ADDED SCALE	JEA	GAK
2	6/8/95	ADDED LOCATION MAP	JEA	GAK
1	6/8/95	ADDED LEGEND	JEA	GAK

REV. NO.	DATE	DESCRIPTION	MADE BY	CHECKED BY	APPROVED BY
<b>ALBURG WELCOME CENTER</b> <b>ALBURG, VERMONT</b> <b>SEWAGE DISPOSAL SYSTEM</b> <b>SITE &amp; SOILS INVESTIGATION</b> <b>NH028-1(12)</b>					
DESIGN	JEA	VERMONT SURVEY AND ENGINEERING, INC.			PROJECT NO. 11295
DRAWN		58 EAST STATE STREET • MONTPELIER, VERMONT • 05602			
SCALE	1" = 20.00'	DRAWN BY	JON E. ALLEN	DATE	5/17/95
		CHECKED BY		DATE	5/17/95
		APPROVED BY		DATE	5/17/95
					SHEET NO. 14/21

N 7354.1830  
E 10889.5445  
312.34'  
119d10'30" LT

N 8957.9889  
E 10471.5748  
380.36'  
39d55'08" LT



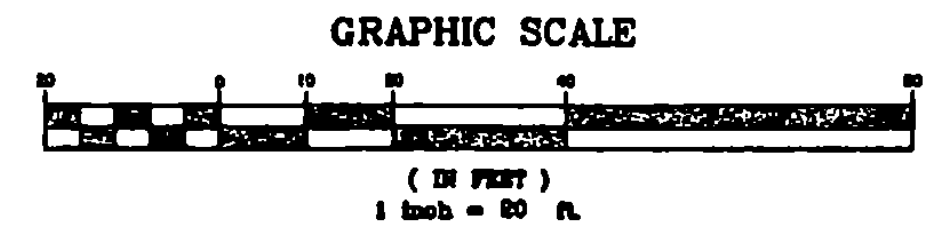
N 7007.8821  
E 10227.9415  
361.67'  
1d32'34" LT

N 6977.5725  
E 10202.4313

N 7423.1927  
E 10458.5495  
118.92'  
163d54'43" LT

N 7338.8835  
E 10377.8793

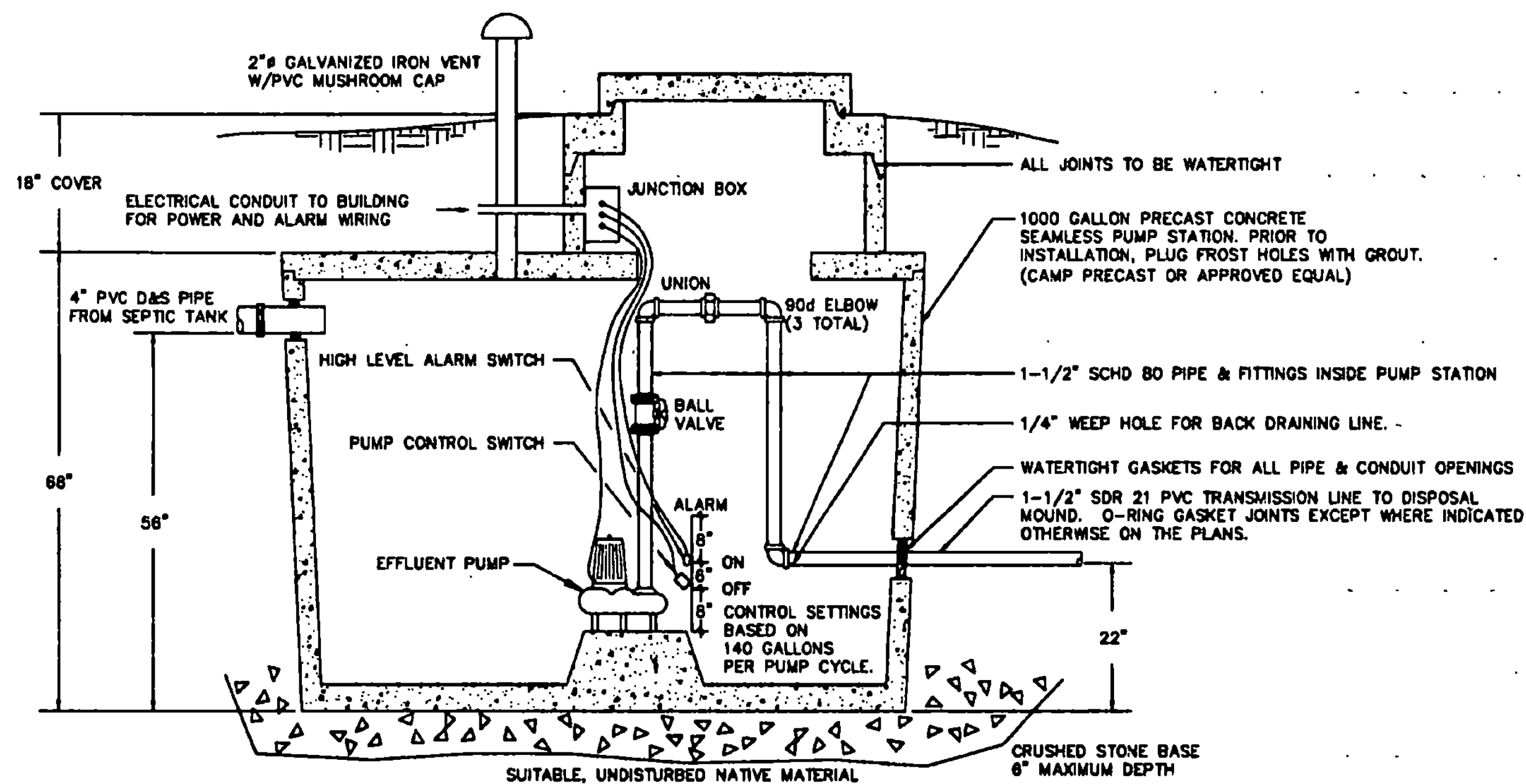
- 9 4/26/98 CHANGED WATER SERVICELINE TO 2" JEA GAK
- 8 4/26/98 CHANGED BUILDING WATERLINE JEA GAK  
ENTRANCE NOTE
- 7 4/26/98 CHANGED BUILDING WATERLINE JEA GAK  
ENTRANCE LOCATION
- 6 4/26/98 ADDED MOUND LAYOUT DIMENSIONS JEA GAK
- 5 4/26/98 MODIFIED FUTURE ACCESS ROAD JEA GAK
- 4 4/26/98 ADDED SHEET NO. TO TITLE BLOCK JEA GAK
- 3 8/23/95 ADDED PARCEL AREA JEA GAK
- 2 8/22/95 ADDED P/L COURSE AND DISTANCE JEA GAK
- 1 8/7/95 ADDED WATER CONNECTION JEA GAK



*J. E. Allen*



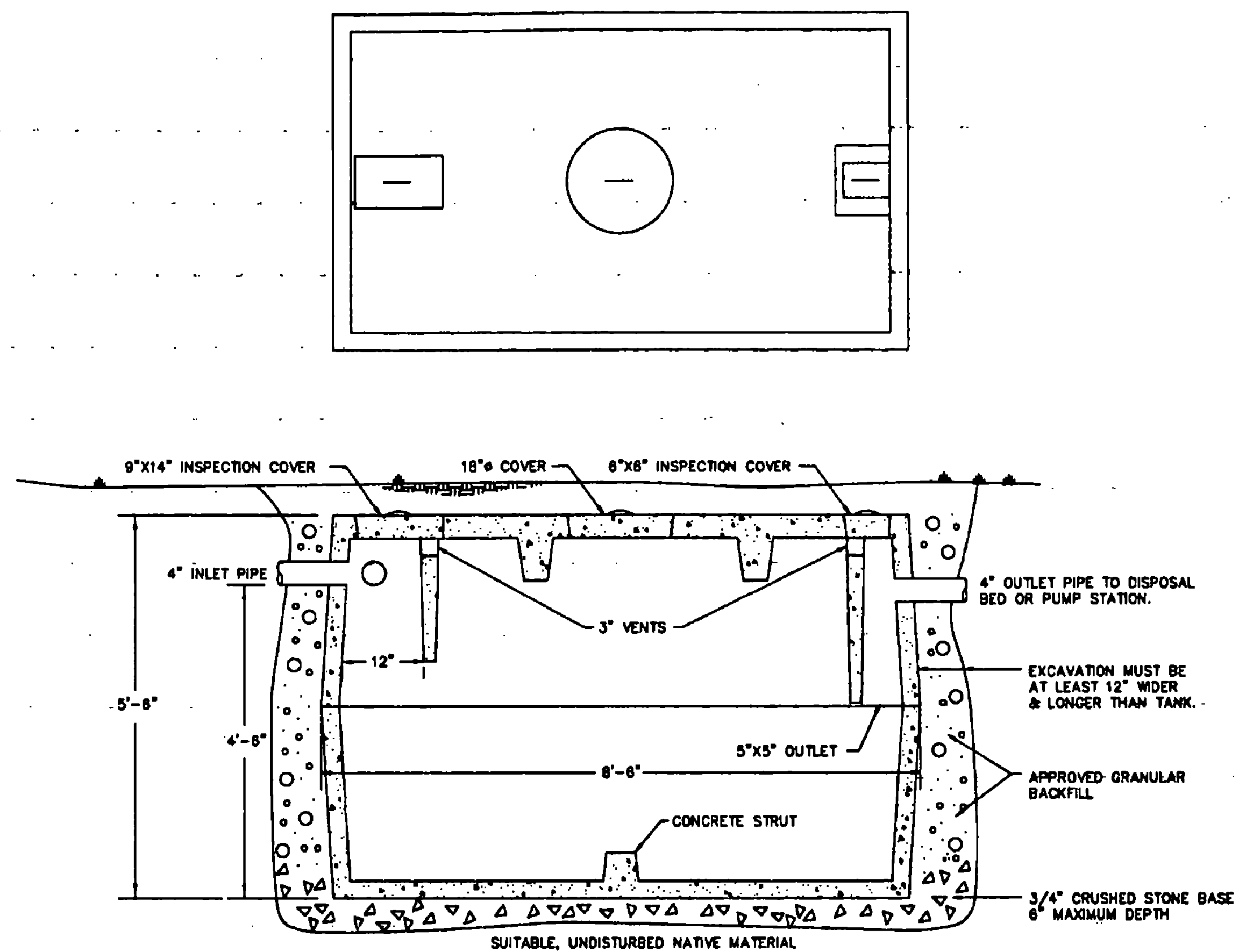
REV. NO.	DATE	DESCRIPTION	MADE BY	CHECKED BY	APPROVED BY
<b>ALBURG WELCOME CENTER</b> <b>ALBURG, VERMONT</b> <b>SEWAGE DISPOSAL SYSTEM</b> <b>PLAN</b> <b>NH 028-1(17)S</b>					
OWNER	JEA	VERMONT SURVEY and ENGINEERING, INC.	PROJECT NO.	11295	
DESIGNED BY	VERMONT SURVEY and ENGINEERING, INC.		DATE	5/17/95	
SCALE	1" = 20.00'	DRAWN BY	JON E. ALLEN	CHECKED BY	5/17/95
			DATE	5/17/95	
			DRAWING NO.	2/5	
			SHEET NO.	15/21	



**PUMPING SYSTEM**

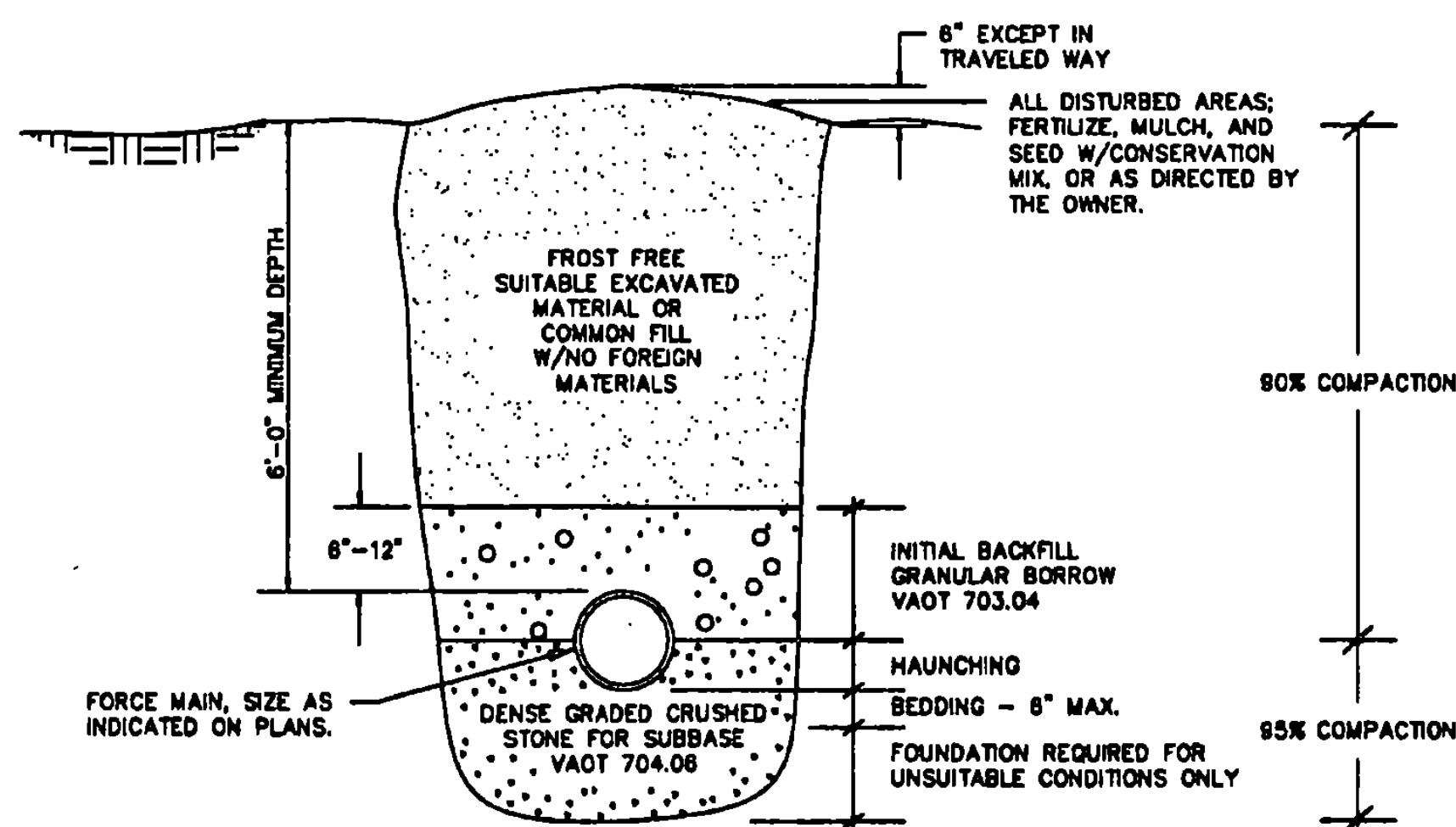
1. PUMP - HYDROMATIC SHEF33, OR APPROVED EQUAL; 230V, 1P, 28 GPM @ 19 TDH
2. SYSTEM SHALL BE INSTALLED WITHOUT A CHECK VALVE WITH FORCE MAIN CAPABLE OF BACK DRAINING.
3. CONTROLS - MODEL JSD, S.J. ELECTRO SYSTEMS MERCURY TILT SWITCH, OR APPROVED EQUAL; SET @ 140 GALS. PUMPED VOLUME PER CYCLE. CONTRACTOR RESPONSIBLE FOR SETTINGS IF HE SUBSTITUTES ANOTHER PUMP STATION.
4. HIGH WATER ALARM - MODEL LB-50, OHIO ELECTRIC CONTROL, INC., OR APPROVED EQUAL. AUDIO & VISUAL ALARM INSTALLED IN THE WELCOME CENTER @ THE OWNER'S LOCATION.

**PUMP STATION**  
NOT TO SCALE



**SEPTIC TANK**  
NOT TO SCALE

1. PRE-CAST REINFORCED CONCRETE - 4000 PSI @ 28 DAYS.
2. 1000 GALLON, TWO COMPARTMENT DESIGN.
3. INLET Baffle AND OUTLET CHAMBER PRE-CAST WITH TOP SECTION OF TANK.
4. KEYED JOINT SEALED WITH ASPHALT CEMENT OR EQUIVALENT.
5. PRIOR TO INSTALLATION, PLUG FROST HOLES WITH GROUT.



**SEWER LINE TRENCH TYPICAL**  
NOT TO SCALE

*Jon E. Allen*



**CONSTRUCTION SPECIFICATIONS**

**THE PROJECT:**

Provide, construct, test, and set operating a complete sewage disposal system including septic tank, pump station, disposal mound, interconnecting piping, pump, power and controls, and high-water alarm, all as shown on the Plans, specified herein, and directed by the Engineer.

Connect to the Alburg Village water system and construct a water service line to the Visitors Center as shown on the Plan and Details. Coordinate service connection with the Alburg water superintendent. Install water meter in the Visitors Center building as designated by the water superintendent. Meter will be provided by Alburg Village. Connection fee will be paid by the State of Vermont.

**MATERIALS AND EQUIPMENT:**

1. 1-1/2" Crushed Stone for disposal mound  
VAOT 704.02 COARSE AGGREGATE FOR CONCRETE  

Sieve Designation	1-3/4"	1-1/2"	1"	3/4"	3/8"
% Passing	100	90-100	20-55	0-15	0-5
2. Sand for disposal mound:  

Sieve Designation	10	40	200
% Passing	85	30-50	5-10

**3. Septic Tank:**

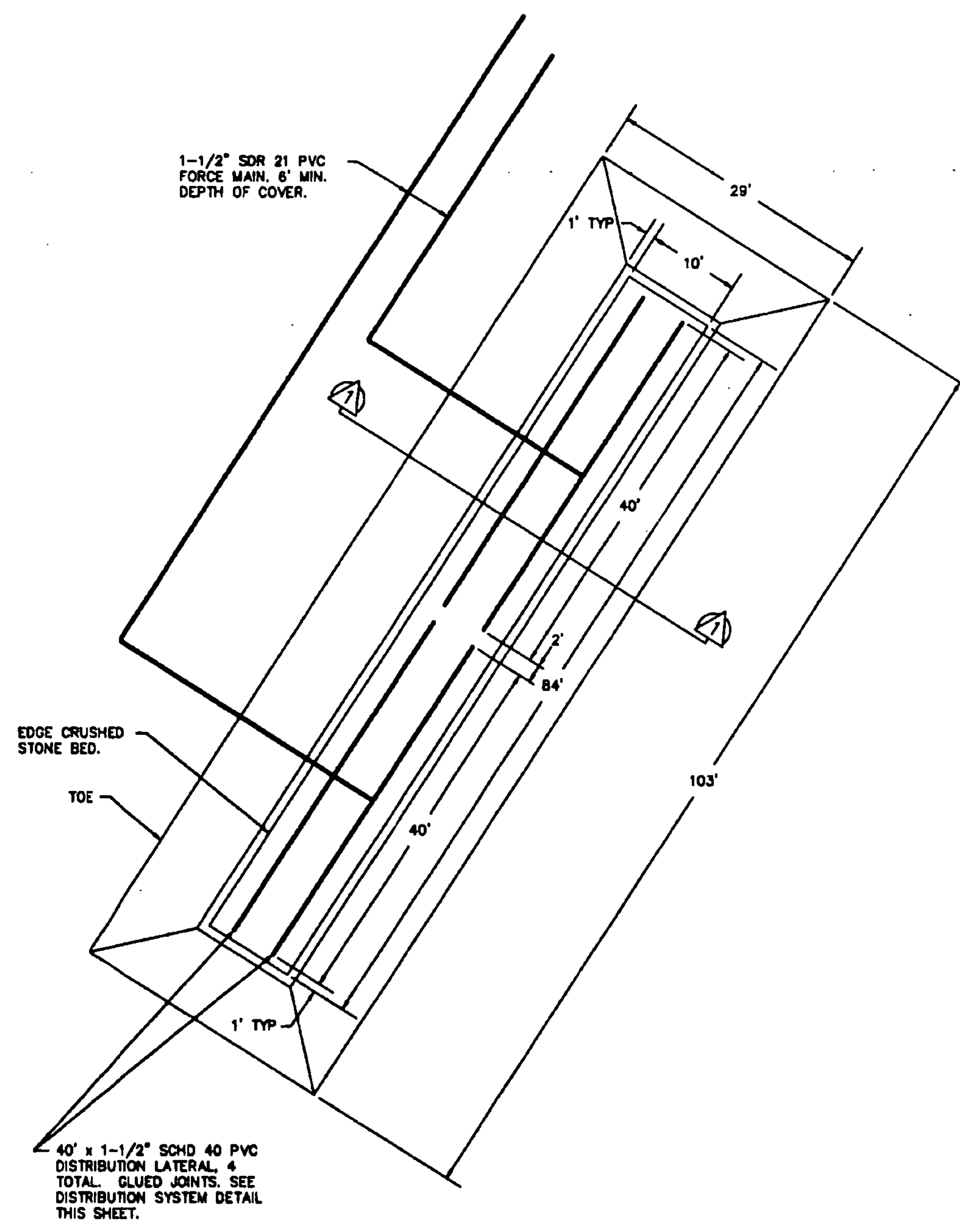
1000 gallon; 4000 psi precast concrete; two compartment; Comp Precast 1000 Standard or approved equal. Frost holes shall be properly plugged with grout prior to installation. "Ledge tank" may be substituted with Engineers approval.

**4. Pump Station:**

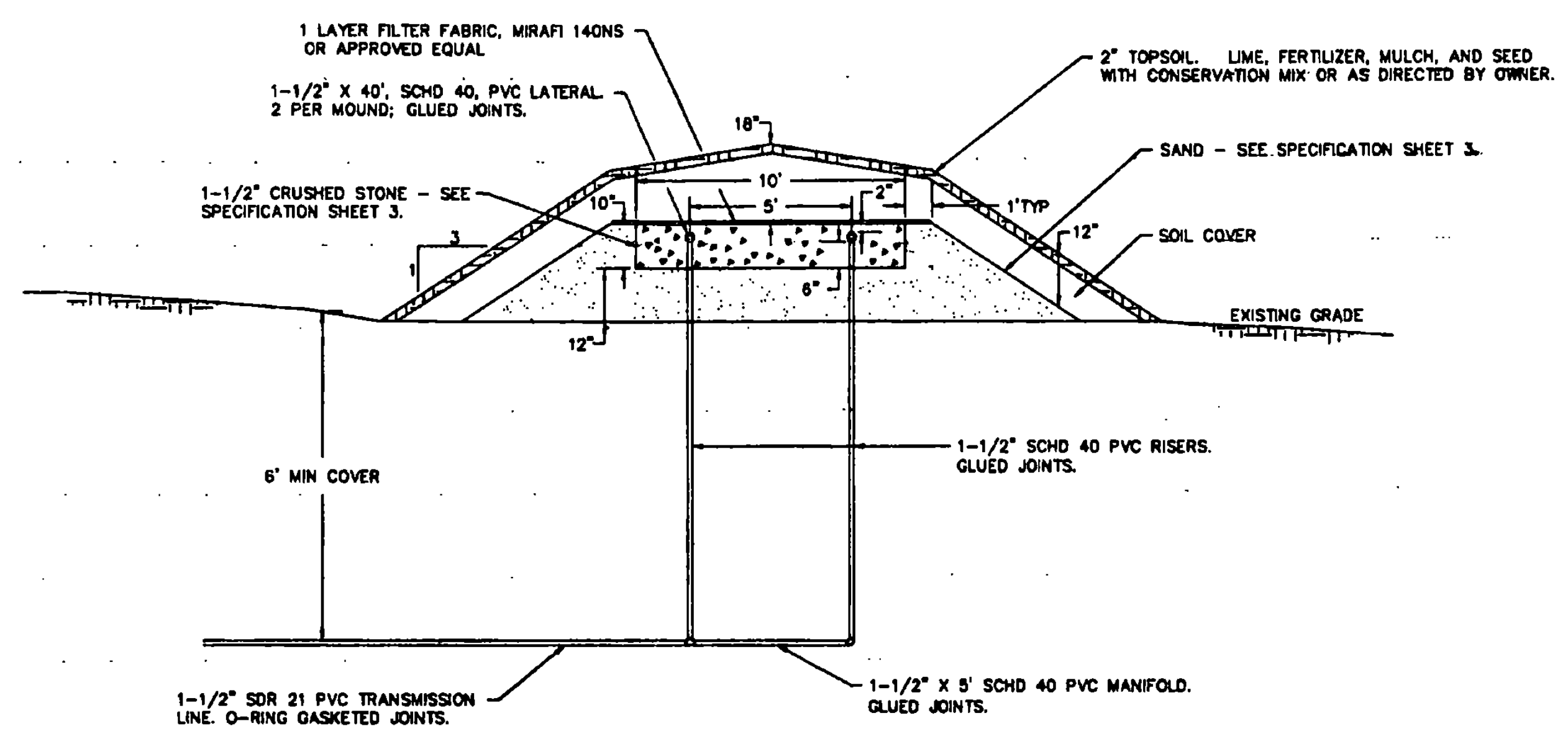
1. Vault - 1000 gallon precast, seamless concrete; Comp Precast or approved equal. Frost holes shall be properly plugged with grout prior to installation.
2. Pump - Hydromatic SHEF33 Effluent Pump or approved equal, 28 gpm @ 19 ft TDH.
3. Pump Controls - Model JSD, S.J. Electro Systems mercury tilt switch, or approved equal. Control set for a 140 gallon pumped volume per cycle. Control level settings given on the Pump Station Detail of the drawings are for this pump station only. Contractor is responsible for settings if he substitutes another pump station.
4. High Water Alarm - Model LB-50, Ohio Electric Control, INC., or approved equal. Audio & visual alarm installed in the Visitor's Center at owner's location.

- |   |         |                                 |     |     |
|---|---------|---------------------------------|-----|-----|
| 4 | 4/28/95 | ADDED SHEET NO. TO TITLE BLOCK  | JEA | GAK |
| 3 | 6/8/95  | ADDED VENT & VALVE TO PUMP STA. | JEA | GAK |
| 2 | 6/8/95  | ADDED WATER TO SPECIFICATIONS   | JEA | GAK |
| 1 | 6/5/95  | MOVED VALVE PIT TO 5/5          | JEA | GAK |

REV. NO.	DATE	DESCRIPTION	MADE BY	CHECKED BY	APPROVED BY
<b>ALBURG WELCOME CENTER</b> <b>ALBURG, VERMONT</b> <b>SEWAGE DISPOSAL SYSTEM</b> <b>DETAILS</b> <b>NH 028-11725</b>					
SCALE	DATE	PROJECT NO.		PROJECT NO.	
AS INDICATED	JUN 17 1995	58 EAST STATE STREET - MONTPELIER, VERMONT - 05602		11295	
DRAWING NO. 3/5			SHEET NO. 16/21		

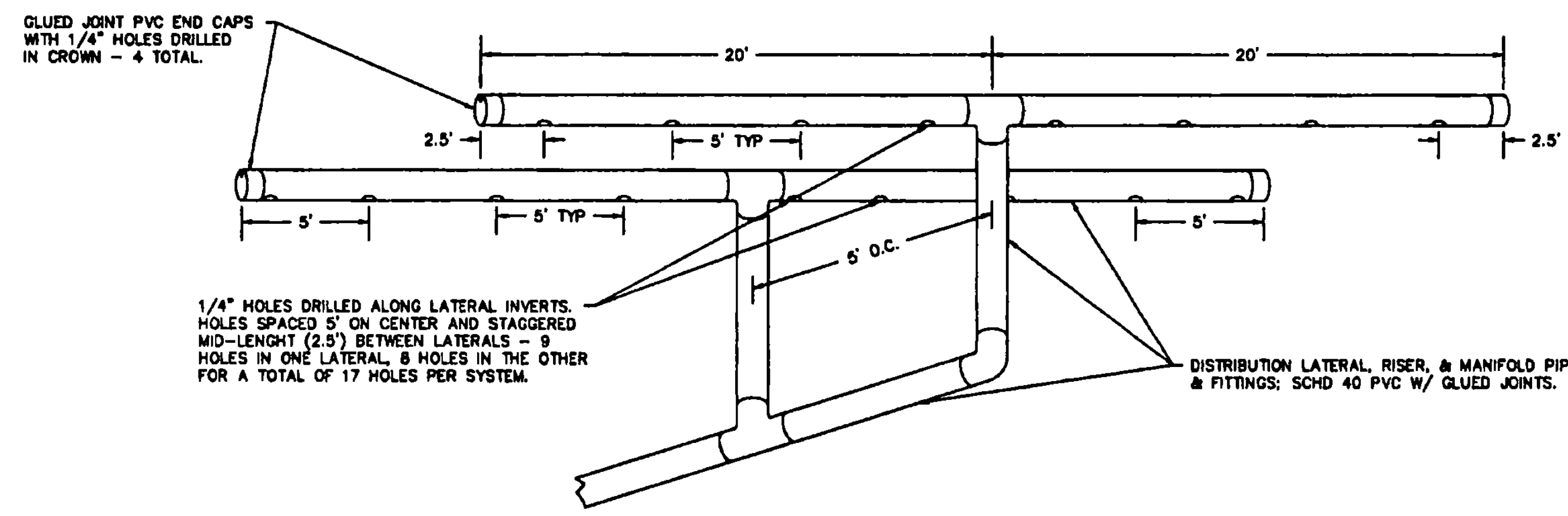


**DISPOSAL MOUND DETAIL PLAN**  
SCALE: 1" = 10.0'



**DISPOSAL MOUND DETAIL SECTION 1**

SCALE:  
HORIZONTAL - 1" = 4.0'  
VERTICAL - 1" = 2.0'



**DISPOSAL MOUND DISTRIBUTION PIPING**

SCALE: NONE

**DISPOSAL MOUND CONSTRUCTION REQUIREMENTS  
IN CONFORMANCE WITH EPR 7.14EE**

1. To prevent compaction, construction equipment shall not be moved across the plowed surface or the effluent dispersal area. However, after placement of a minimum of six (6) inches of sand fill over the plowed area, construction equipment may be driven over the protected surface to expedite construction. Construction and/or plowing shall not be initiated when the soil moisture content is high. (If a sample of soil obtained from approximately nine (9) inches below the surface can be easily rolled in a wire, the soil moisture content is too high for construction purposes.)

2. Above-ground vegetation shall be closely cut and removed from the ground surface throughout the area to be utilized for the placement of the fill material. Prior to plowing, the dosing pump discharge line from the pump chamber to the point of connection with the distribution piping header shall be installed. The area shall then be plowed to a depth of seven (7) to eight (8) inches, parallel to the land contour with the plow throwing the soil up-slope to provide a proper interface between the fill and natural soil. Tree stumps should be cut flush with the surface of the ground and roots should not be pulled. Once plowing of the mound area is completed, the area shall be fenced to prevent vehicles and equipment from entering the plowed area.

3. The area surrounding the mound shall be graded to provide diversion of surface run-off waters.

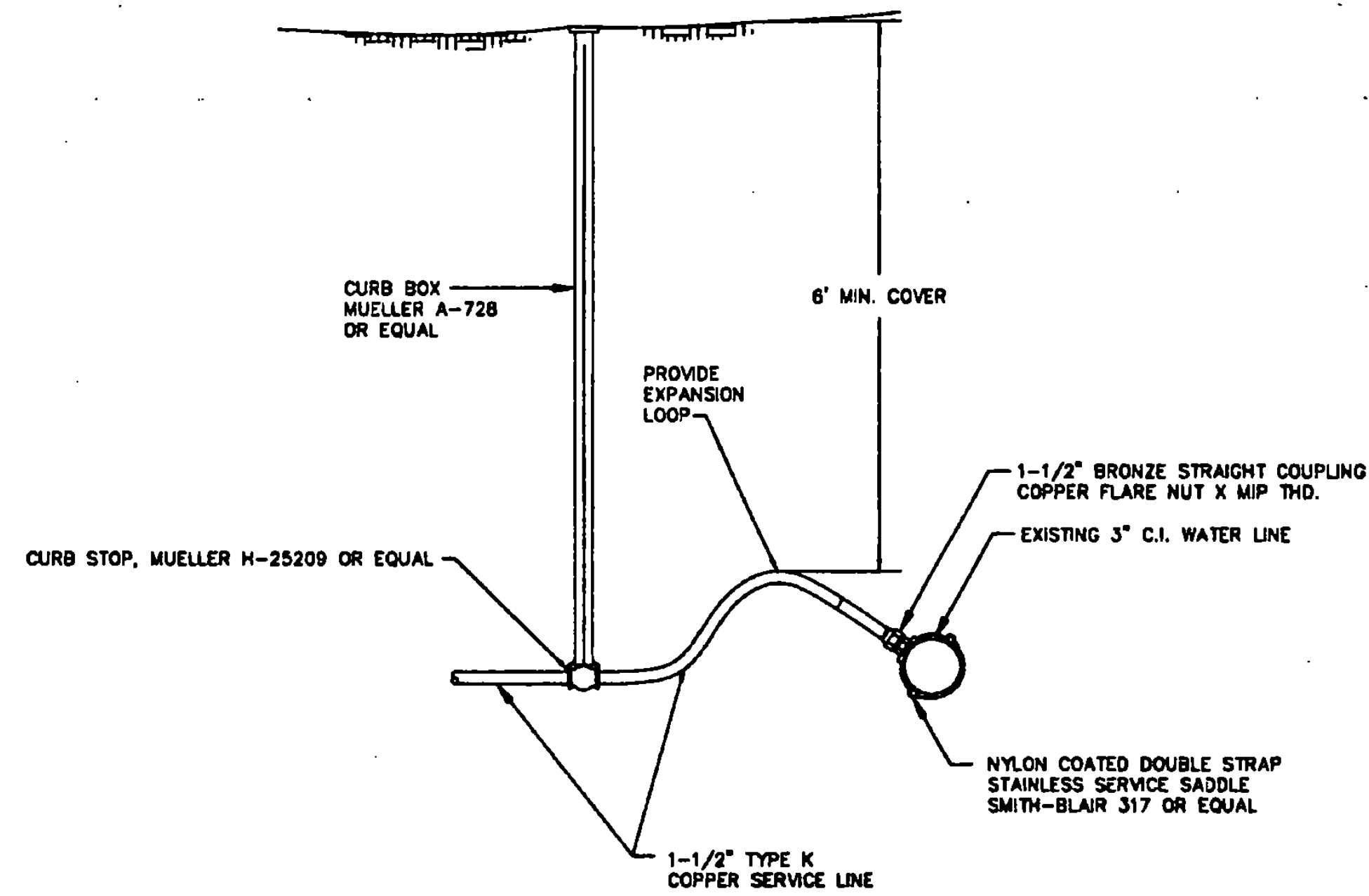
4. Construction should be initiated immediately after preparation of the soil interface by placing all of the sand fill needed for the mound to a minimum depth of twenty-one (21) inches above the plowed surface (thirty-three (33) inches where fractured bedrock is the limiting layer). This depth will permit excavation of trenches or bed to accommodate the crushed stone (9") necessary for the distribution piping. After hand leveling of the absorption area, the stone shall be placed into the trench, hand leveled and the distribution pipe installed. The consultant shall direct the testing of the distribution system. After installation of the distribution system, the entire mound is to be covered with top soil native to the site, or of similar characteristics to support vegetation found in the area. Crown the entire mound with cover of soil less permeable than the mound fill, covering with 12" on the side slopes, and a minimum of eighteen (18) inches over the center of the mound. Native soil from the site is normally suitable for cover material, though the top 2" - 4" of this cover should be top soil. The entire mound shall be seeded, sodded, or otherwise provided with vegetative cover, to assure stability of the installation.

2 4/28/96 ADDED SHEET NO. TO TITLE BLOCK JEA GAK  
1 6/23/95 ADDED MOUND CONSTRUCTION NOTES JEA GAK

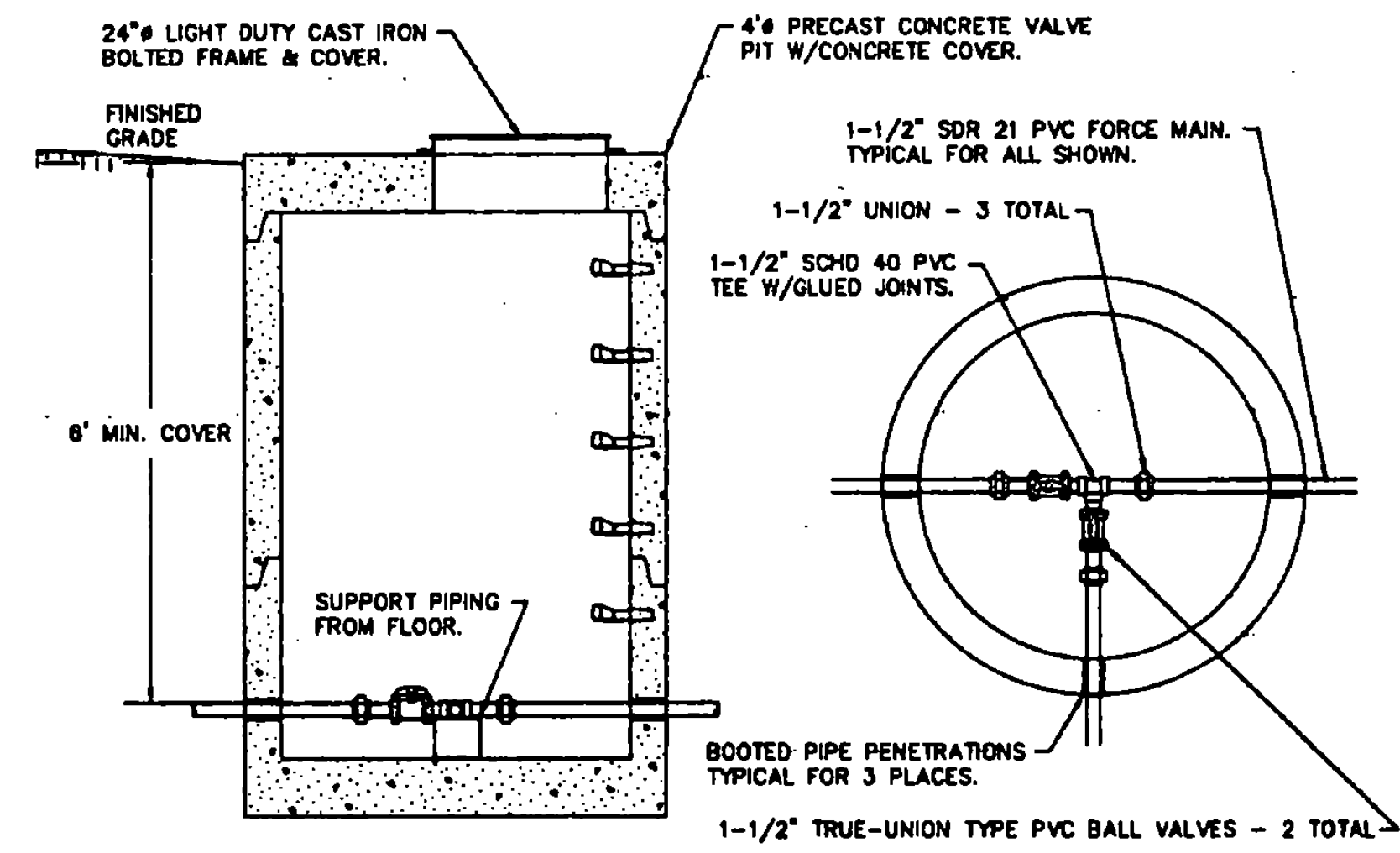
REV. NO.	DATE	DESCRIPTION	MADE BY	CHECKED BY	APPROVED BY
<b>ALBURG WELCOME CENTER ALBURG, VERMONT</b> SEWAGE DISPOSAL SYSTEM DISPOSAL MOUND DETAILS <i>NH 028-1(1)S</i>					
DESIGN	JEA	VERMONT SURVEY AND ENGINEERING, INC. REGISTERED PROFESSIONAL ENGINEERS 56 EAST STATE STREET - MONTPELIER, VERMONT - 05602	PROJECT NO.	11295	
SCALE	AS INDICATED	SUBMITTED	DATE	DATE	ISSUED NO. 4/3
		JUN E. ALLEN	5/17/95		SHEET NO. 17/21

*Jon E. Allen*





**BUILDING WATER SERVICE CONNECTION**  
SCALE: NONE



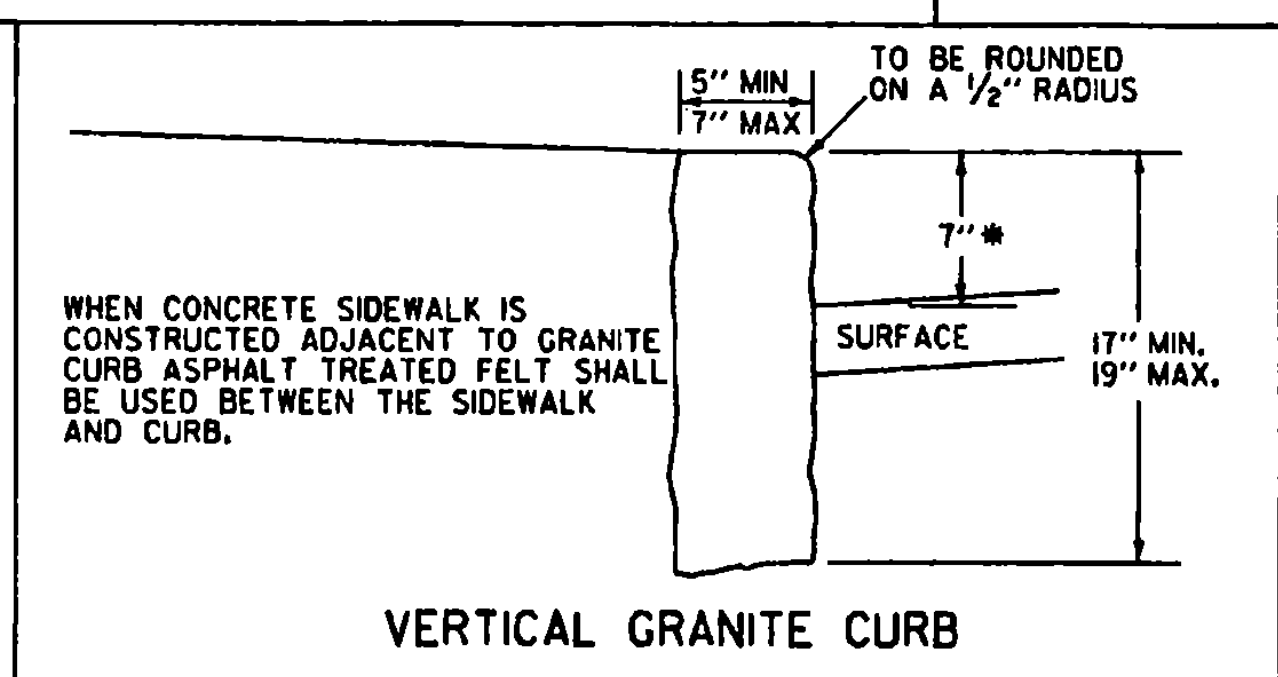
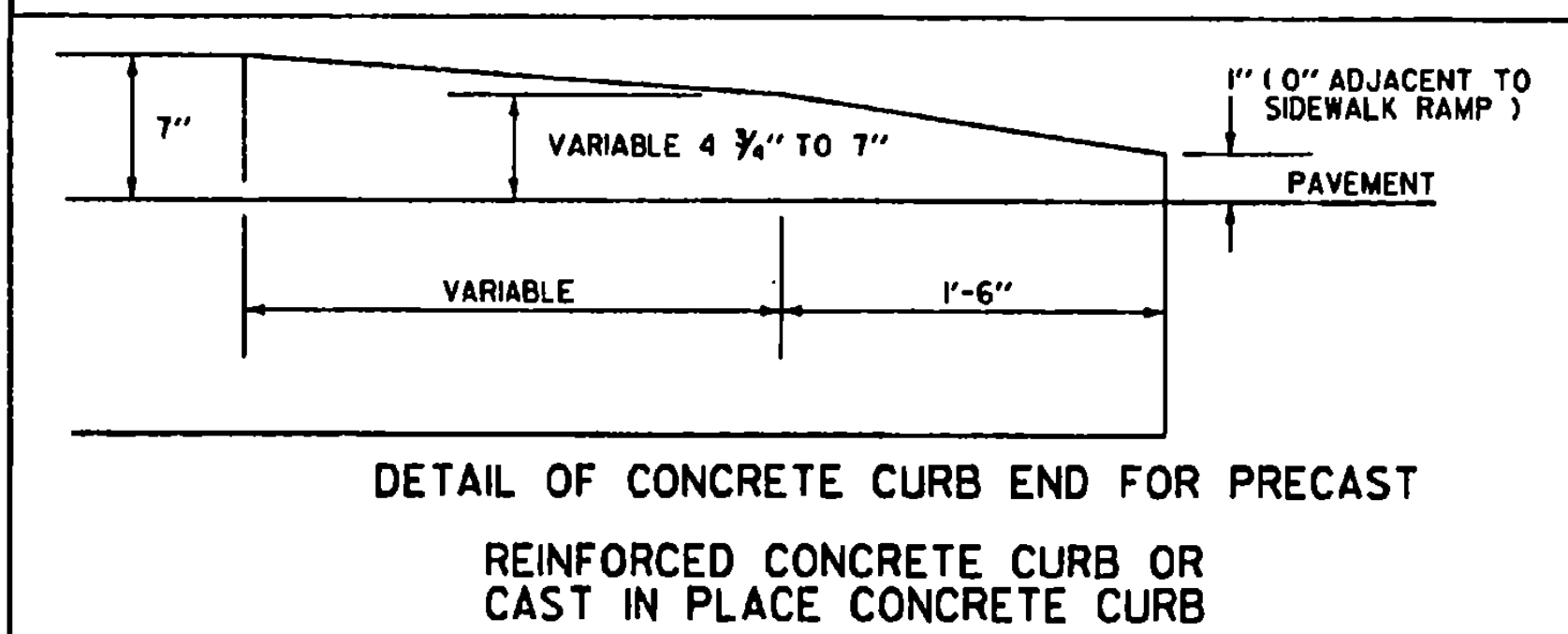
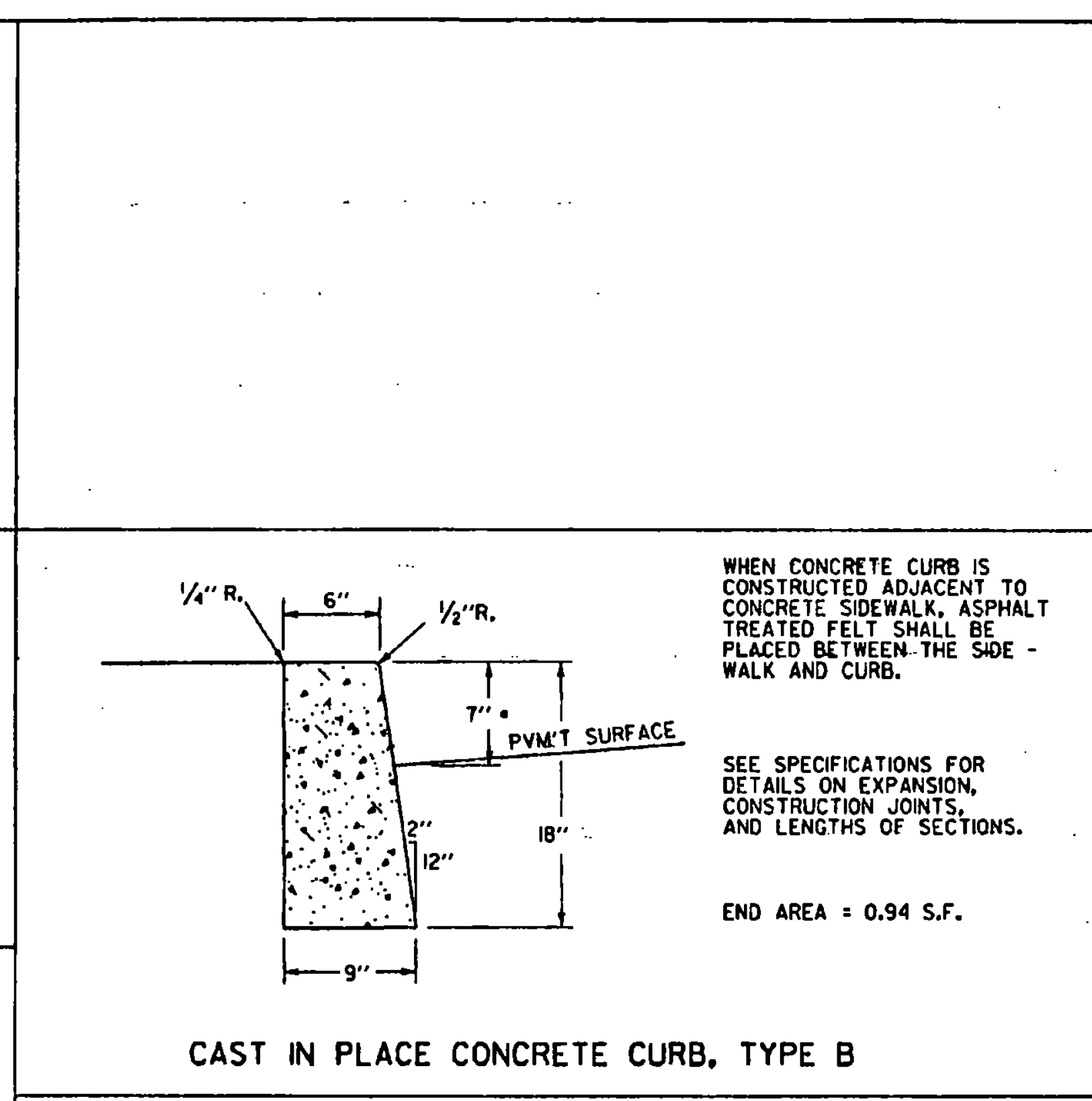
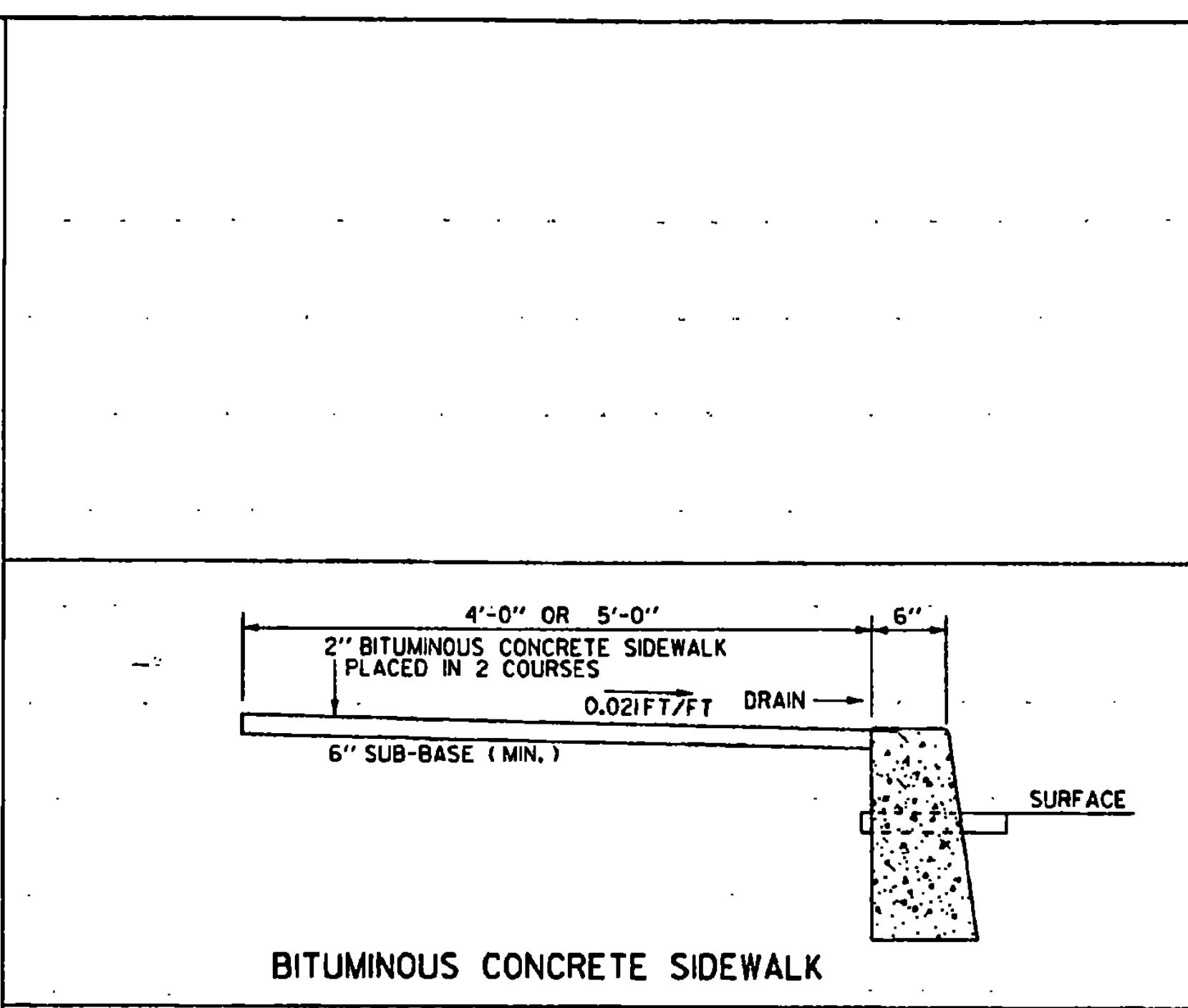
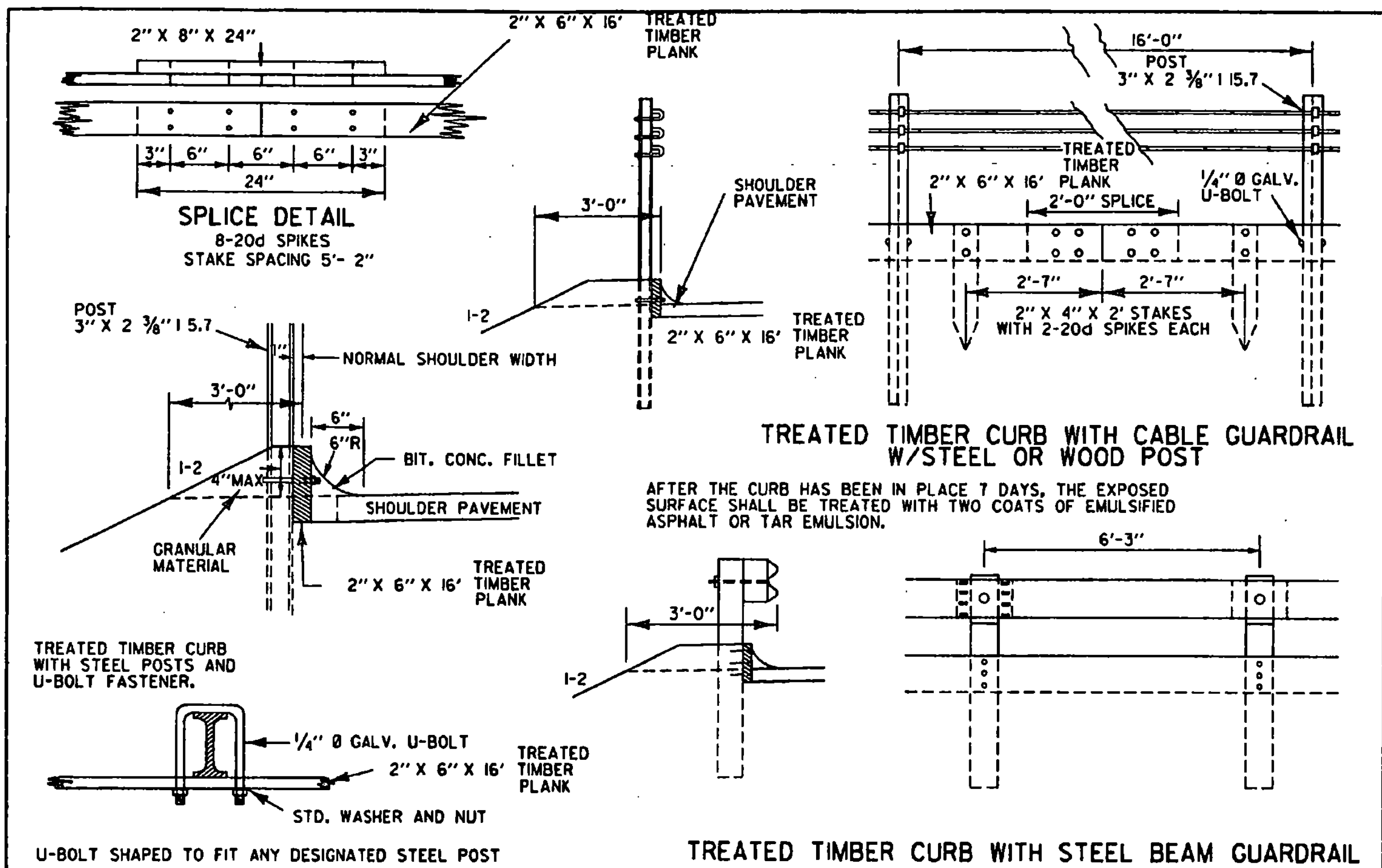
**VALVE PIT DETAILS**  
SCALE: NONE

*Jon E. Allen*

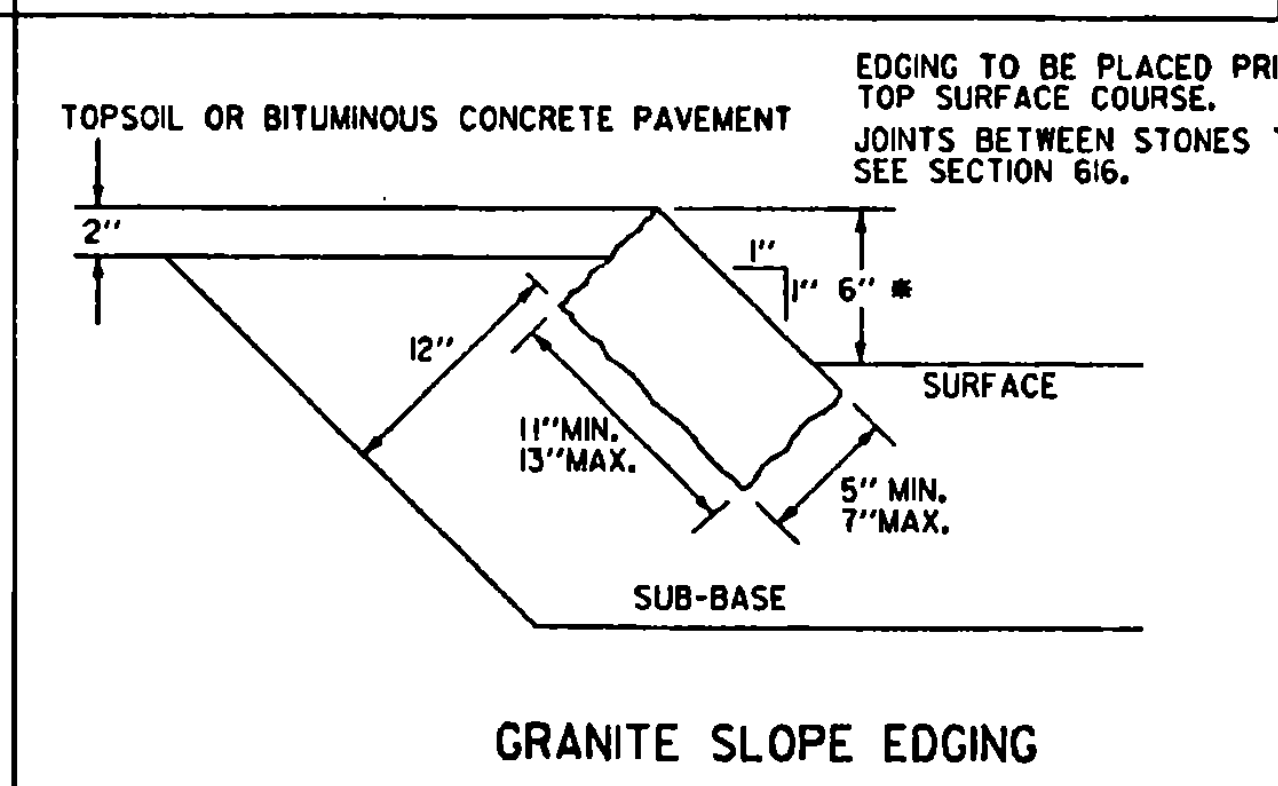
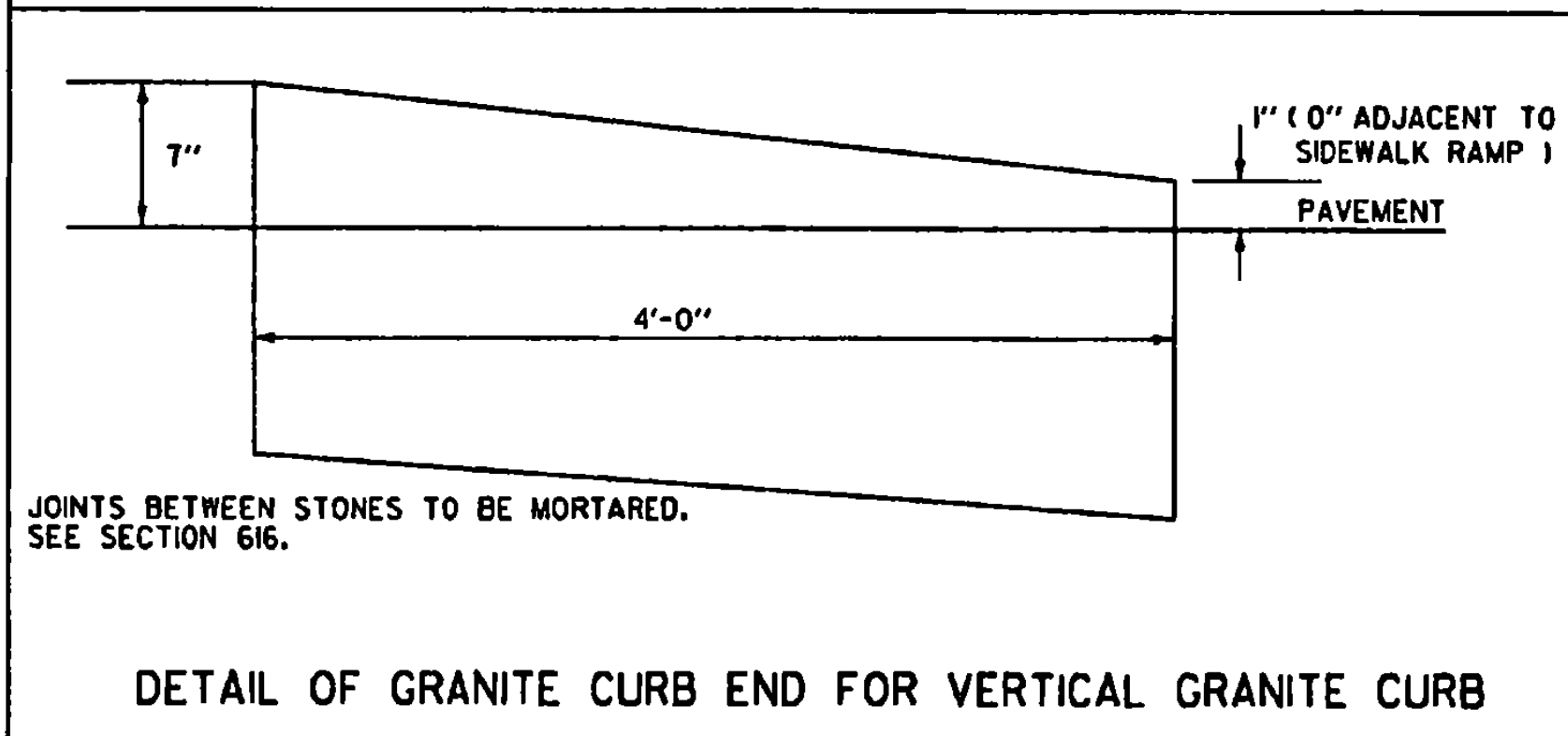
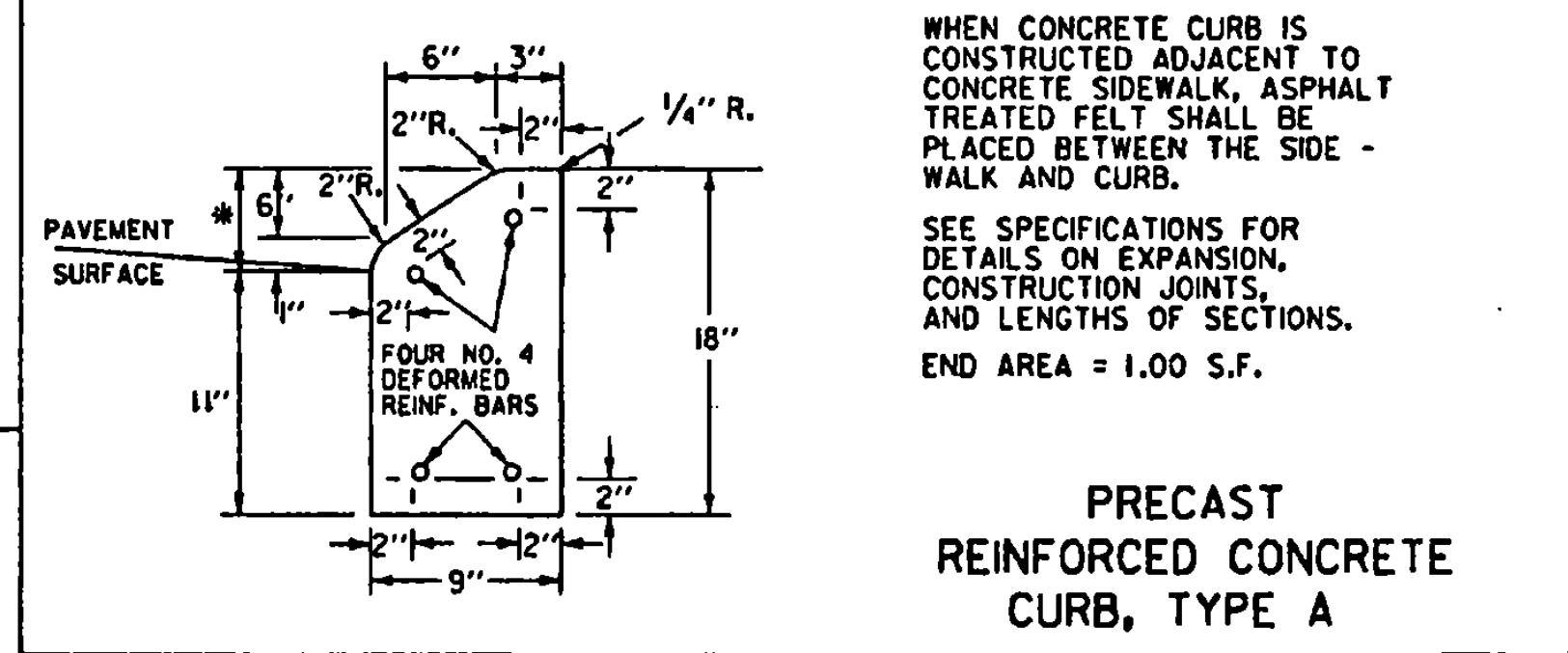


2	4/26/96	ADDED SHEET NO. TO TITLE BLOCK	JEA	GAK
1	6/3/95	ADDED THIS SHEET	JEA	GAK

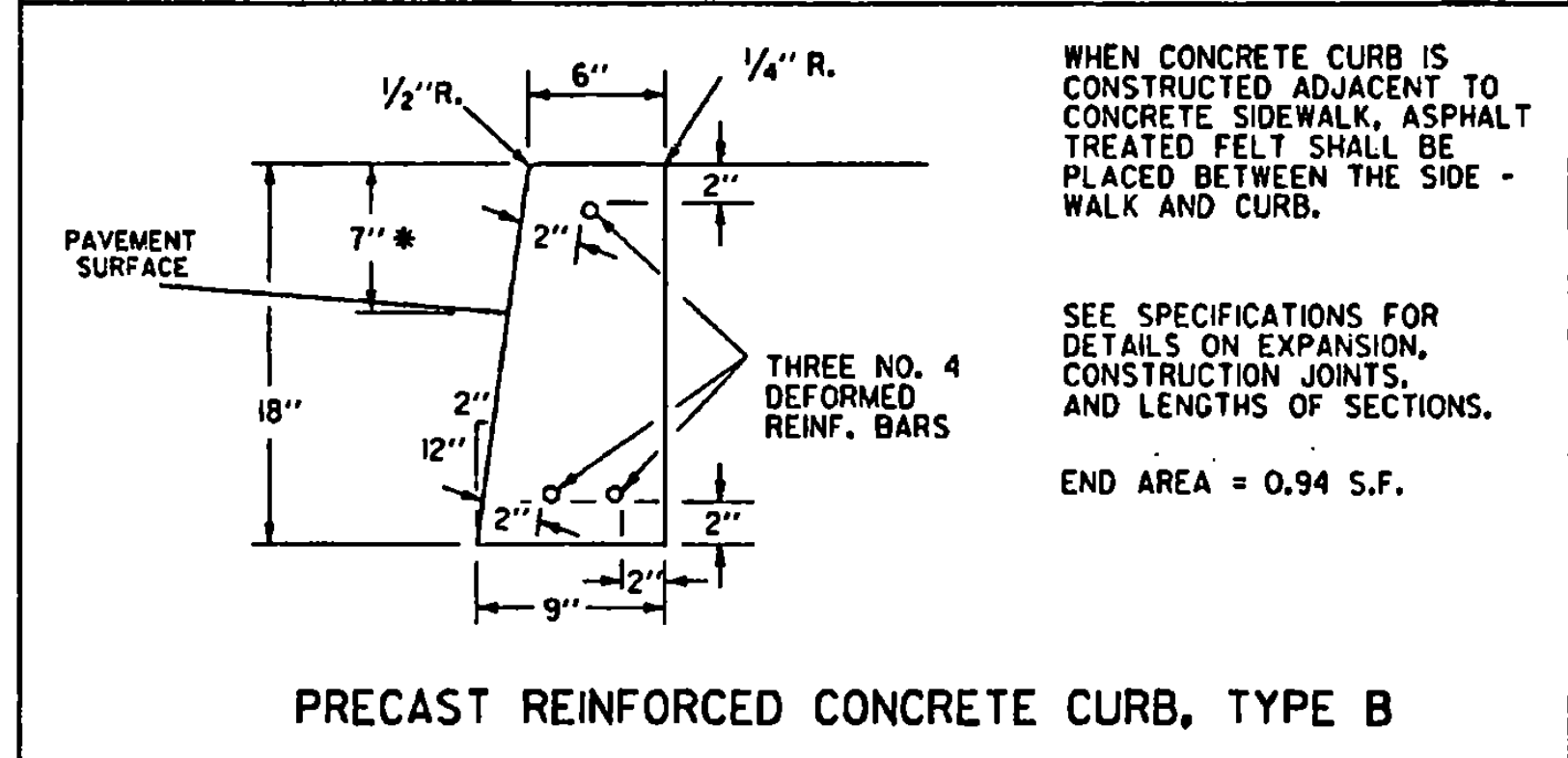
REV. NO.	DATE	DESCRIPTION	MADE BY	CHECKED BY	APPROVED BY
<b>ALBURG WELCOME CENTER</b> <b>ALBURG, VERMONT</b> <b>SEWAGE DISPOSAL SYSTEM</b> <b>MISCELLANEOUS DETAILS</b> <b>NH 028-1075</b>					
DRAWN	Vermont Survey and Engineering, Inc.		PROJECT NO.		
JEA	58 EAST STATE STREET • MONPELIER, VERMONT • 05602		11295		
SCALE	DRAWING NO.	DATE	DRAWING NO. 5/5		
AS INDICATED	JON E. ALLEN	6/3/95	SHEET NO. 18/21		



**NOTE**  
\* HEIGHT NOT TO EXCEED 4" WHEN CURBING IS INSTALLED ADJACENT TO GUARDRAIL (STANDARD SHAPE TO BE BURIED TO THIS DEPTH)



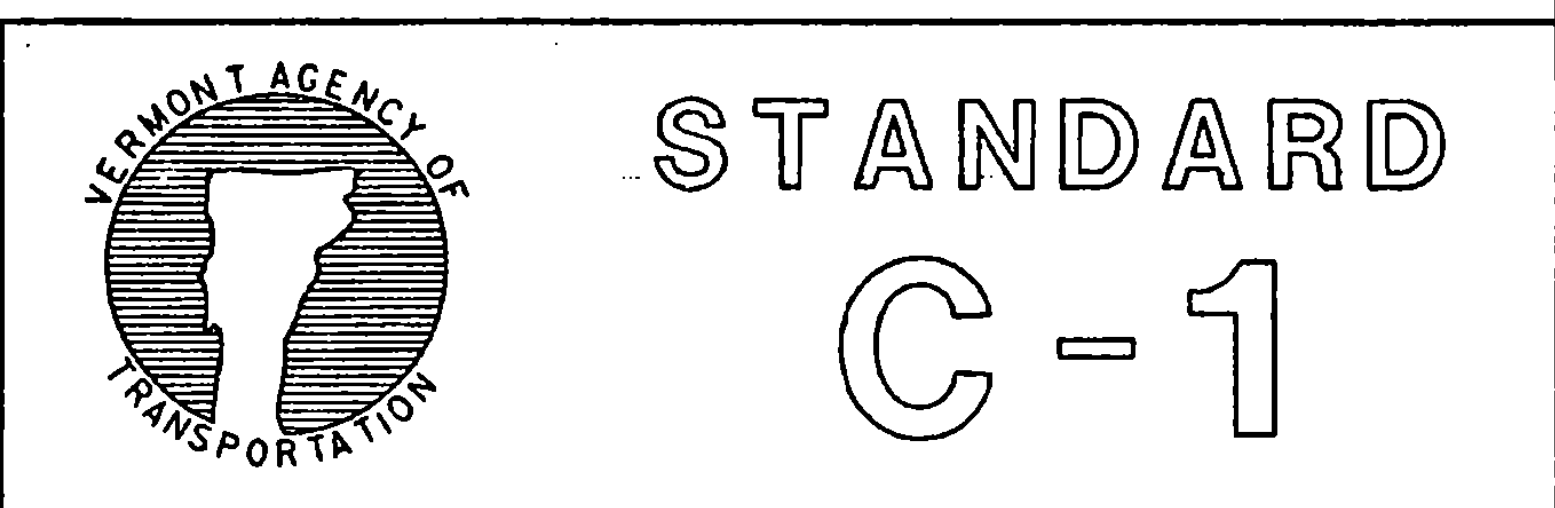
**NOTE**  
\* HEIGHT NOT TO EXCEED 4" WHEN CURBING IS INSTALLED ADJACENT TO GUARDRAIL (STANDARD SHAPE TO BE BURIED TO THIS DEPTH)

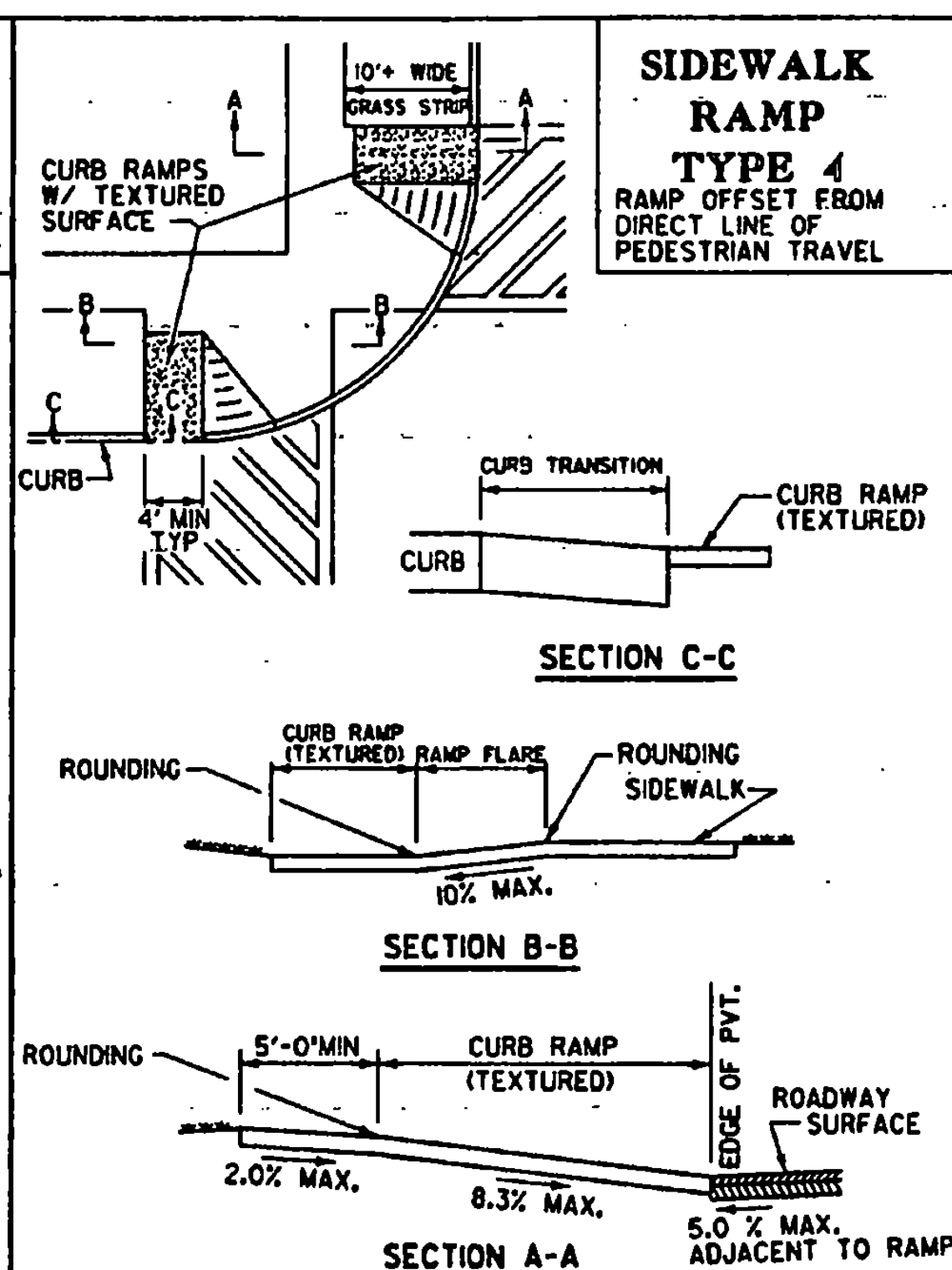
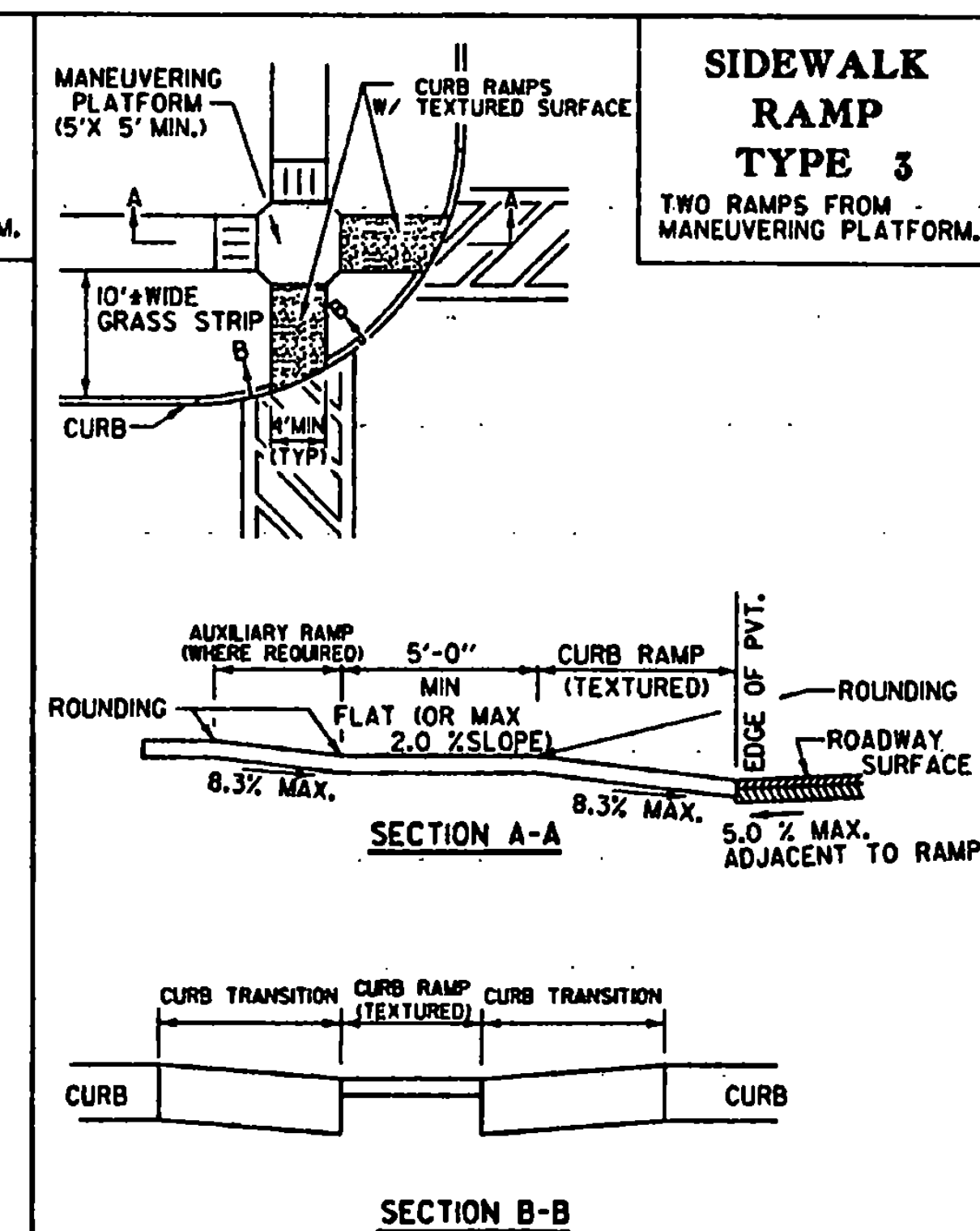
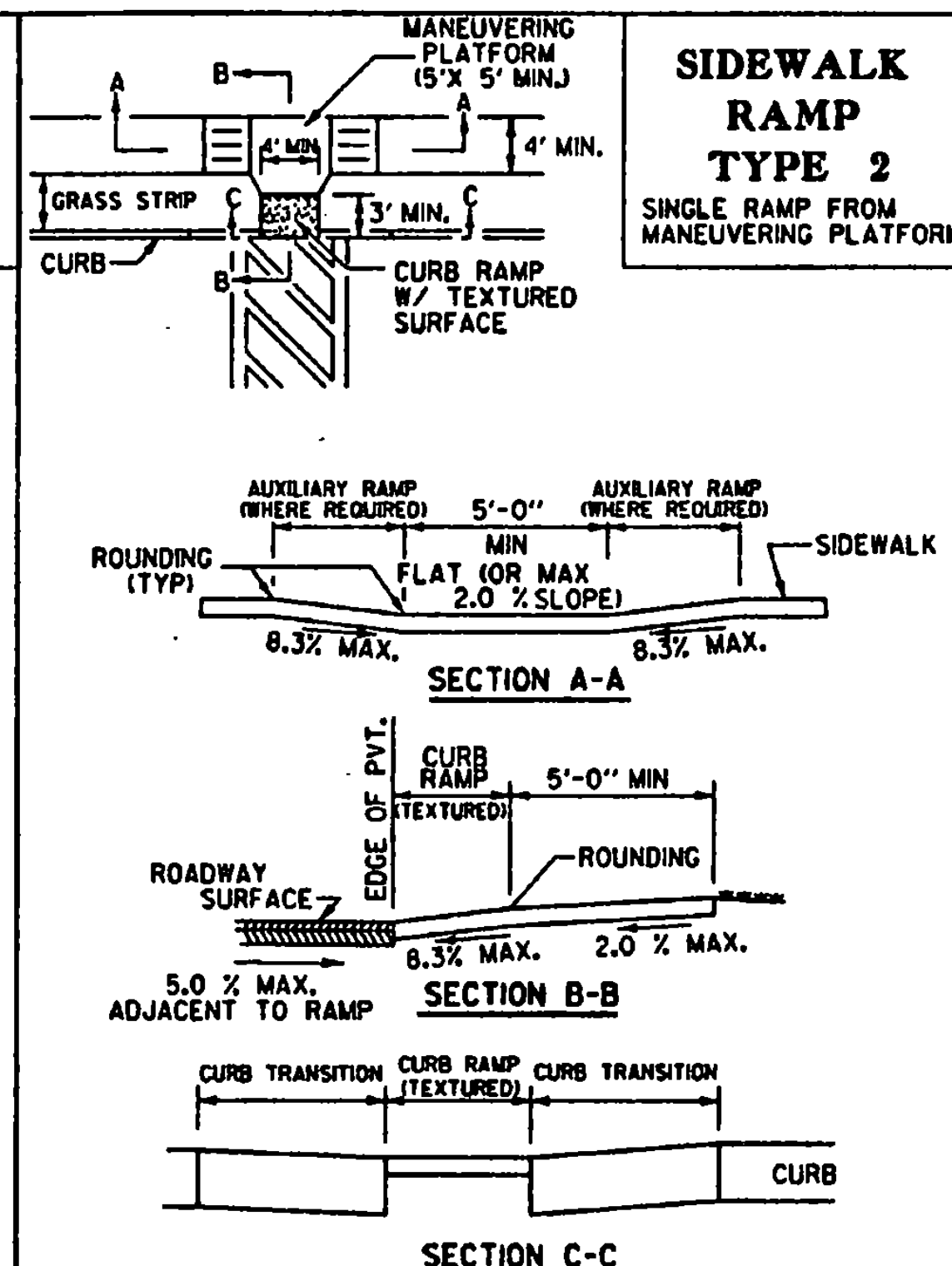
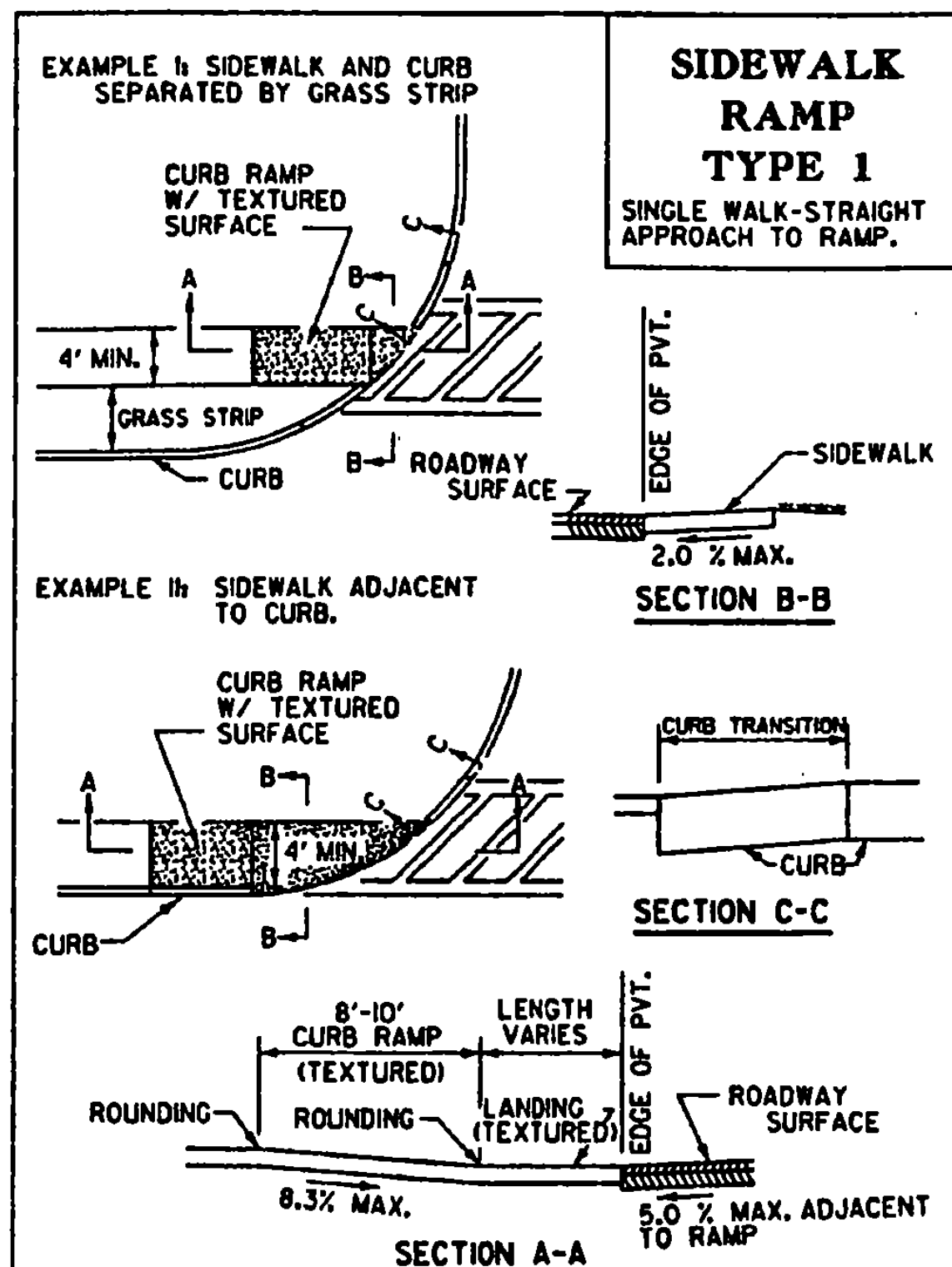


**REVISIONS AND CORRECTIONS**  
DEC. 8, 1971 - ORIGINAL APPROVAL DATE  
NOV 16, 1992 - CHANGED 6" CURB TO 4"  
JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

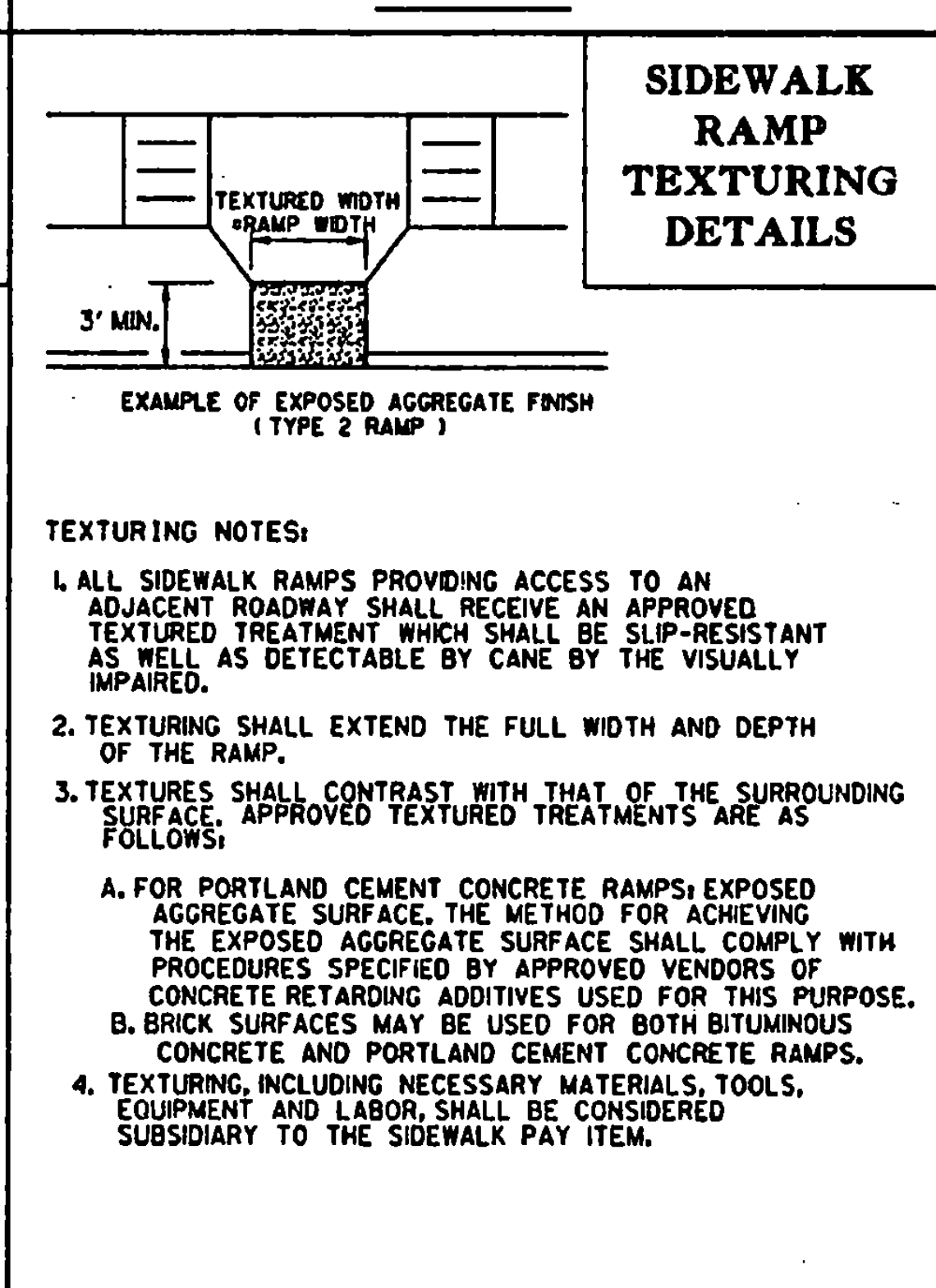
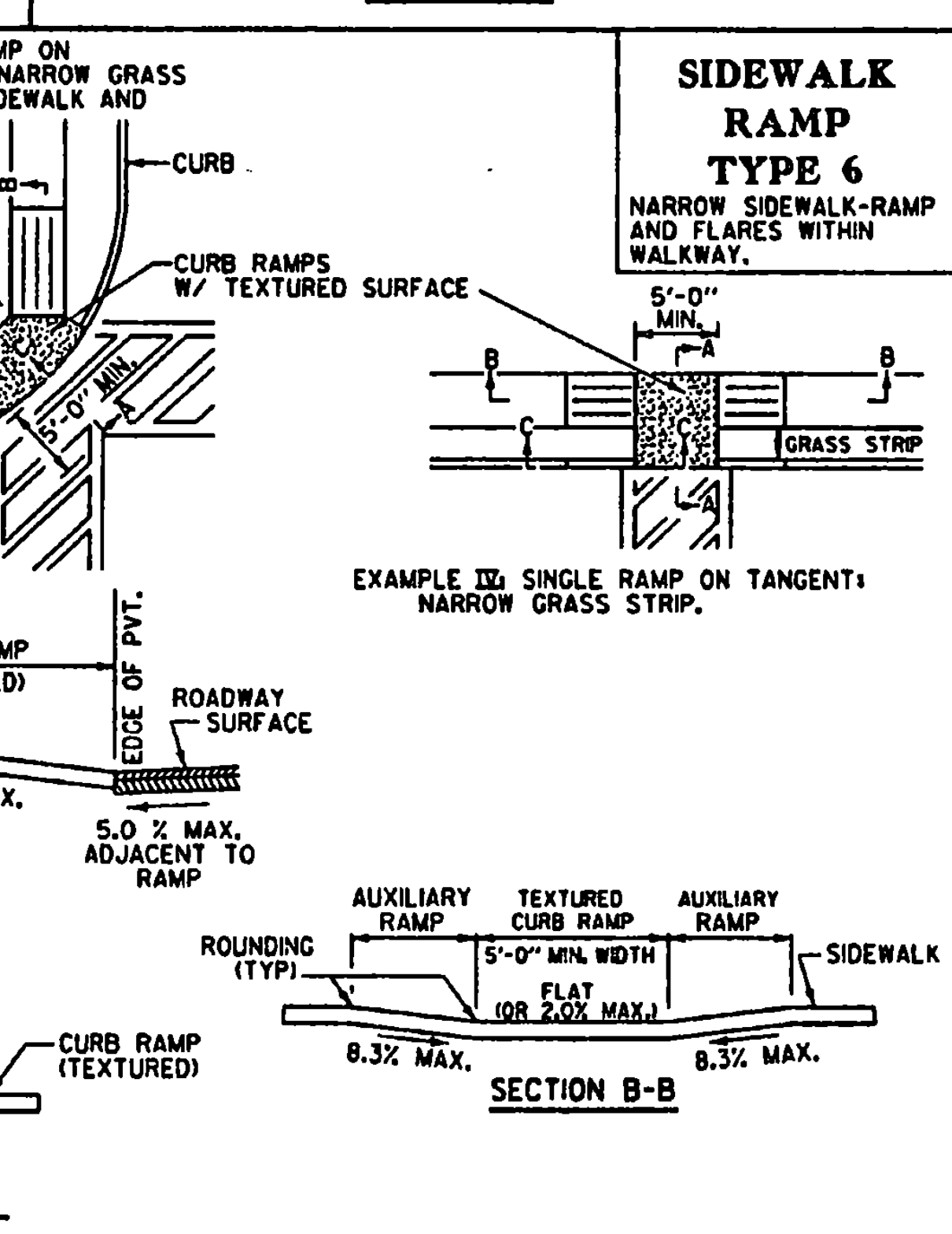
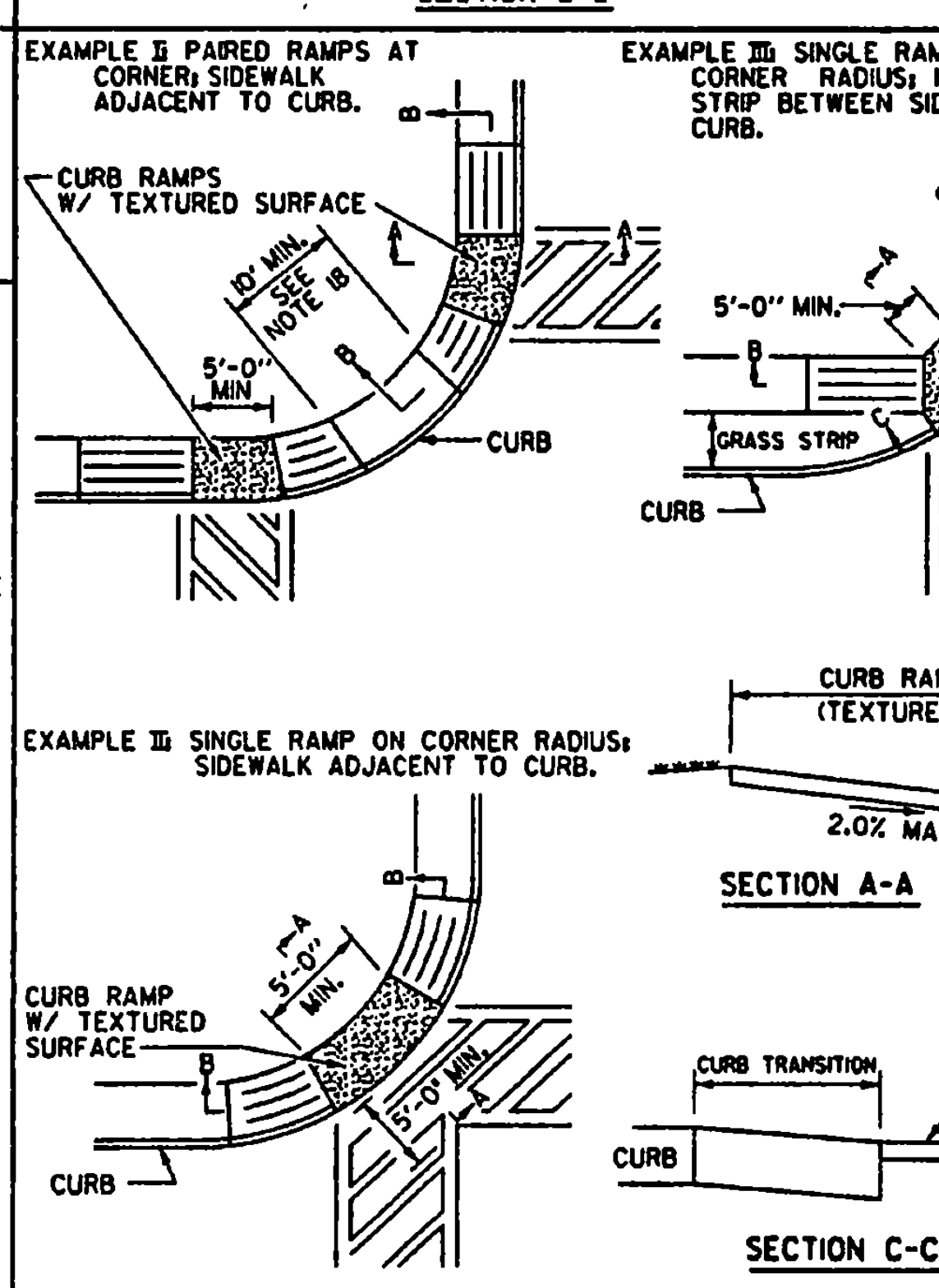
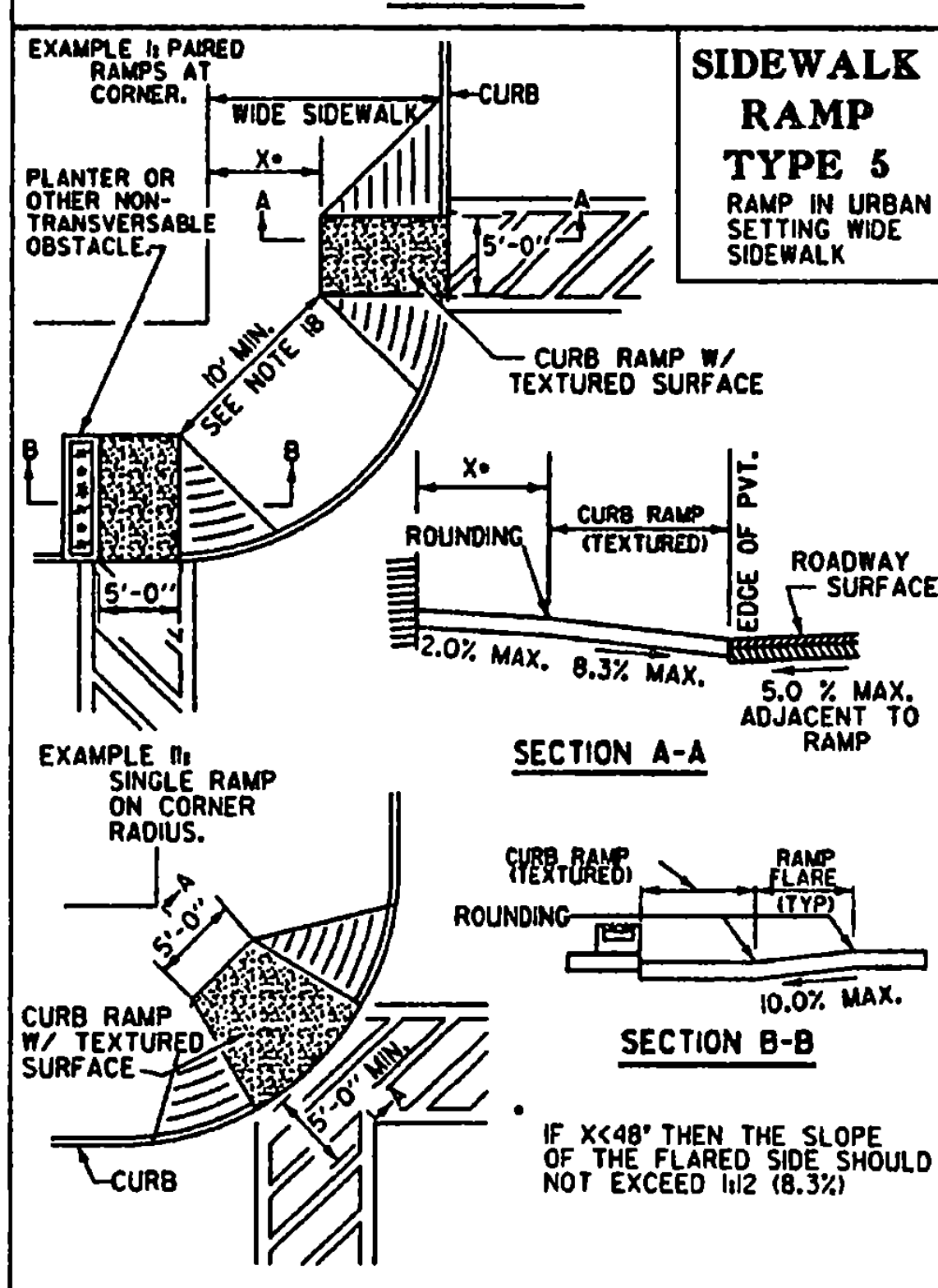
**APPROVED**  
APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION, FHWA FINAL APPROVAL PENDING.  
*Stephen D. McCall, PE*  
DIRECTOR OF ENGINEERING  
*John D. Murphy, PE*  
DESIGN ENGINEER

**GRANITE SLOPE EDGING**  
**VERTICAL GRANITE CURB**  
**PRECAST REINFORCED CONCRETE CURB**  
**CAST IN PLACE CONCRETE CURB**  
**TREATED TIMBER CURB**





- GENERAL NOTES:**
- THE DIMENSIONS AND GRADES SHOWN ON THIS STANDARD WILL BE ADHERED TO IN THE DESIGN AND THE CONSTRUCTION OF SIDEWALK RAMP. WHERE SIDEWALKS RUN ADJACENT TO ROADWAYS ON STEEP (5% OR GREATER) GRADES, RAMP GRADES WILL BE AS FLAT AS POSSIBLE. (ON LOW SIDE OF DRIVES AND INTERSECTING SIDE STREETS, RAMP SHALL SLOPE TOWARDS DRIVE OR SIDE STREET @ 2%)
  - MINIMUM RAMP WIDTH:
    - 4' WHERE RAMP MAY BE APPROACHED DIRECTLY.
    - 5'-0" WHERE THE RAMP MUST BE (OR OFTEN WILL BE) APPROACHED FROM THE SIDE, TO PROVIDE MANEUVERING ROOM FOR WHEELCHAIRS.
  - ALLOWABLE GRADES ON RAMP:
    - 8.3% MAXIMUM WHERE RAMP IS APPROACHED DIRECTLY.
    - 2.0% WHERE RAMP IS APPROACHED FROM THE SIDE.
    - FLATTER GRADES WILL BE PROVIDED WHERE FEASIBLE.
  - ALLOWABLE GRADES ON FLARES ADJACENT TO RAMP:
    - 10.0% MAXIMUM WHEN DIRECTLY IN PATH THAT PEDESTRIANS MUST USE.
    - 8.3% MAXIMUM WHEN NORMALLY USED BY WHEELCHAIRS TO ENTER OR EXIT RAMP.
    - FLATTER GRADES WILL BE PROVIDED WHERE FEASIBLE.
  - CROSS SLOPES ON RAMP SURFACES SHALL NOT EXCEED 2.0%.
  - AN OVERRUN DISTANCE OF 5' MINIMUM SHOULD BE PROVIDED AT THE TOP AND BOTTOM OF SIDEWALK RAMP TO ALLOW FOR STOPPING AND MANEUVERING OF WHEELCHAIRS.
  - TRANSITIONS (GRADE CHANGES) AT TOPS AND BOTTOMS OF RAMP AND FLARES SHOULD BE ROUNDED.
  - VERTICAL DROP-OFF EDGES TO RAMP WILL NOT BE BUILT UNLESS THE RAMP ABUTS AN AREA WHICH WILL NOT BE USED BY PEDESTRIANS.
  - NO VERTICAL 'LIP' OR 'CURB REVEAL' WILL BE PROVIDED WHERE THE RAMP ADJOINS THE ROADWAY.
  - RAMP SHALL IN ALL CASES DIRECT USERS INTO THE CROSSWALK AREA.
  - WHERE POSSIBLE, SIDEWALK RAMP AND FLARES SHOULD BE LOCATED OUTSIDE THE DIRECT LINE OF TRAVEL MOST LIKELY TO BE FOLLOWED BY THE VISUALLY IMPAIRED.
  - SIDEWALK RAMP SHOULD NOT BE LOCATED WHERE THEIR USE MAY BE PREVENTED BY SIGNS, POLES, PLANTERS, MAILBOXES, ETC.
  - WHERE POSSIBLE, SIDEWALK RAMP SHOULD NOT BE LOCATED WHERE USERS MUST CROSS DROP INLET GRATES, MANHOLE COVERS OR OTHER ACCESS LIDS. IF THIS CANNOT BE AVOIDED THEN GRATE DESIGN AND PLACEMENT SHALL CONFORM TO ADA REQUIREMENTS.
  - CURB DRAINAGE SHOULD BE CONSTRUCTED SO AS TO PRECLUDE THE FLOW OF WATER PAST THE SIDEWALK RAMP.
  - WHERE CURB CORNER RADIUS EXCEEDS 25', TWO SIDEWALK RAMP ARE RECOMMENDED IN PREFERENCE TO A SINGLE RAMP.
  - JOINTS WILL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT SIDEWALK SPECIFICATIONS, HOWEVER EXPANSION JOINTS WITHIN THE SIDEWALK RAMP AREA WILL BE AVOIDED WHEREVER POSSIBLE.
  - SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT EXCEED 1/20 (5%). NO LIP IS ALLOWED WHERE SIDEWALK RAMP MEETS THE GUTTER.
  - THIS DIMENSION SHALL BE ATTAINED WHERE POSSIBLE TO AVOID THE ROLLER COASTER EFFECT.



**REVISIONS AND CORRECTIONS**

SEPT. 15, 1993 - REVISED TO CONFORM TO ADA REQUIREMENTS

JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

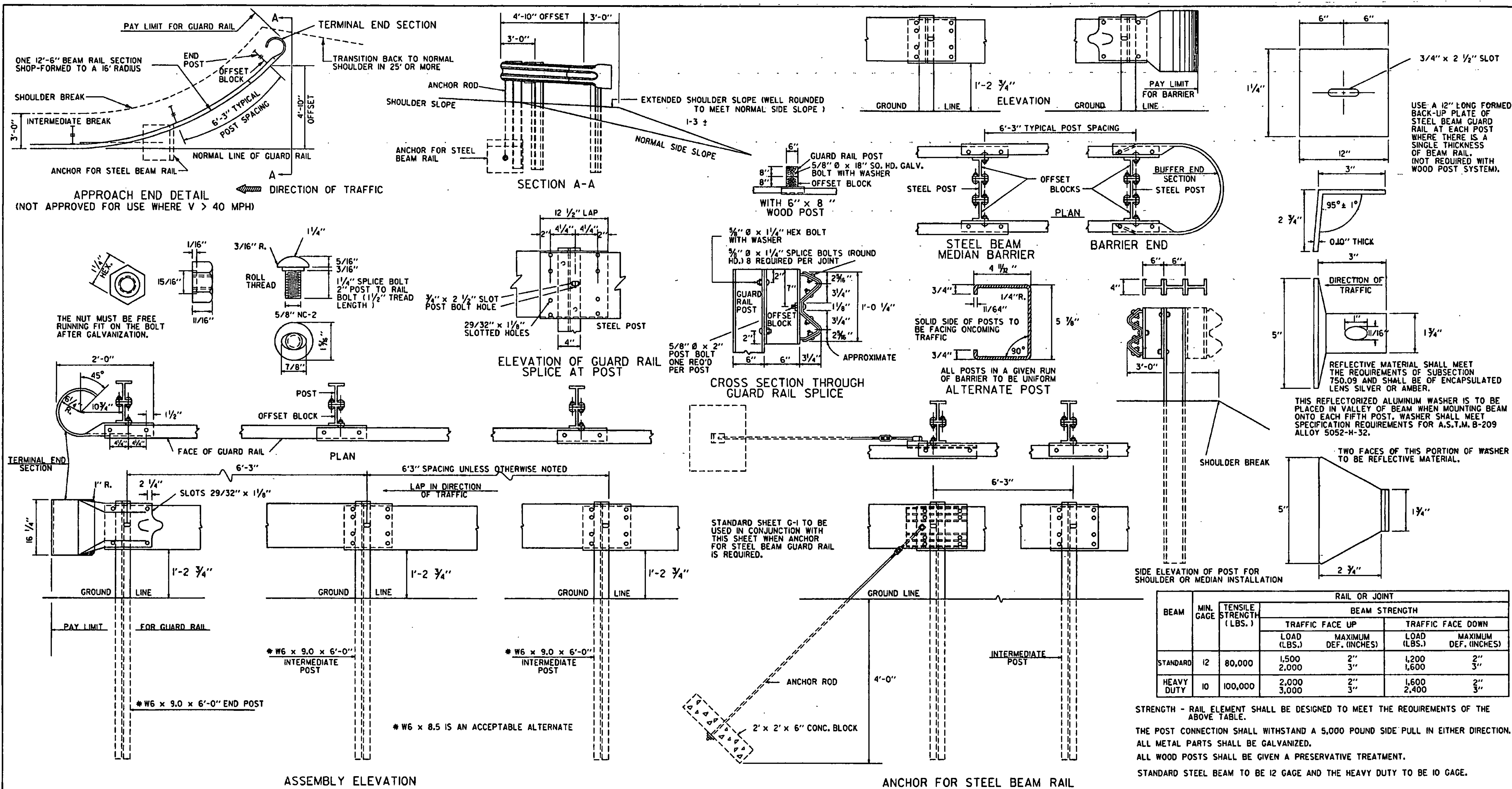
APPROVED

*Franklin M. Allen*  
DIRECTOR OF ENGINEERING

*Abraham M. Muzzey*  
DESIGN ENGINEER

# SIDEWALK RAMPS





**REVISIONS AND CORRECTIONS**  
MAY 6, 1976 - ORIGINAL APPROVAL DATE  
SEP. 10, 1976 - MINIMUM LENGTH & ADVANCE OF NEED NOTES REMOVED  
MAR. 2, 1977 - ROUND WOOD POSTS REMOVED  
SEPT. 12, 1977 - REFERENCE TO ROUND WOOD POSTS REMOVED  
MAY 29, 1979 - NOTE ON REFLECTIVE MATERIAL CHANGED  
APRIL 28, 1980 - APPROACH END DETAILS REDRAWN  
DEC. 16, 1980 - INCREASED SHOULDER WIDENING FOR GUARD RAIL  
JUNE 5, 1984 - POST SIZE AND BACK UP PLATE NOTE CHANGED  
DEC. 21, 1984 - REMOVED POST WASHER  
OCT. 31, 1985 - REVISED TO CONFORM TO 1986 SPECIFICATIONS  
JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

APPROVED  
  
DIRECTOR OF ENGINEERING  
  
DESIGN ENGINEER

**STEEL BEAM GUARD RAIL  
HEAVY DUTY STEEL BEAM GUARD RAIL  
STEEL BEAM MEDIAN BARRIER  
ANCHOR FOR STEEL BEAM RAIL**

VERMONT AGENCY OF TRANSPORTATION

**STANDARD  
G-1d**

BEAM	MIN. GAGE	TENSILE STRENGTH (LBS.)	RAIL OR JOINT			
			TRAFFIC FACE UP		TRAFFIC FACE DOWN	
			LOAD (LBS.)	MAXIMUM DEF. (INCHES)	LOAD (LBS.)	MAXIMUM DEF. (INCHES)
STANDARD	12	80,000	1,500 2,000	2" 3"	1,200 1,600	2" 3"
HEAVY DUTY	10	100,000	2,000 3,000	2" 3"	1,600 2,400	2" 3"

STRENGTH - RAIL ELEMENT SHALL BE DESIGNED TO MEET THE REQUIREMENTS OF THE ABOVE TABLE.  
THE POST CONNECTION SHALL WITHSTAND A 5,000 POUND SIDE PULL IN EITHER DIRECTION. ALL METAL PARTS SHALL BE GALVANIZED.  
ALL WOOD POSTS SHALL BE GIVEN A PRESERVATIVE TREATMENT.  
STANDARD STEEL BEAM TO BE 12 GAGE AND THE HEAVY DUTY TO BE 10 GAGE.