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STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

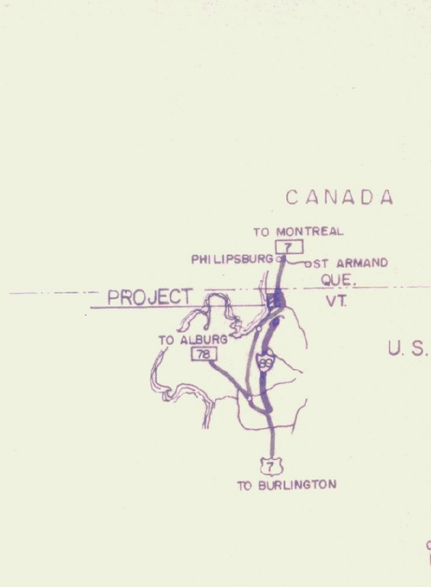
PROPOSED IMPROVEMENT

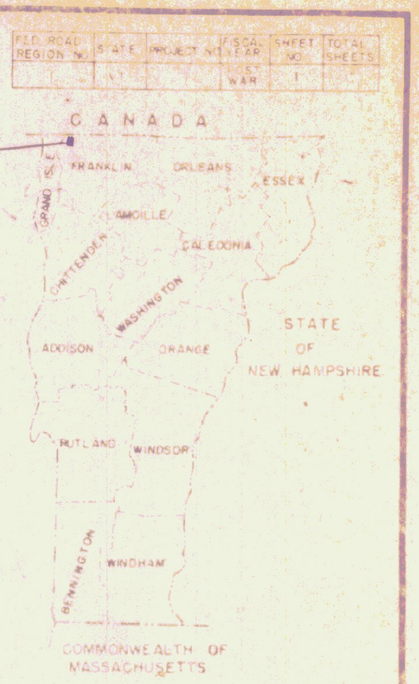
LANDSCAPE PROJECT

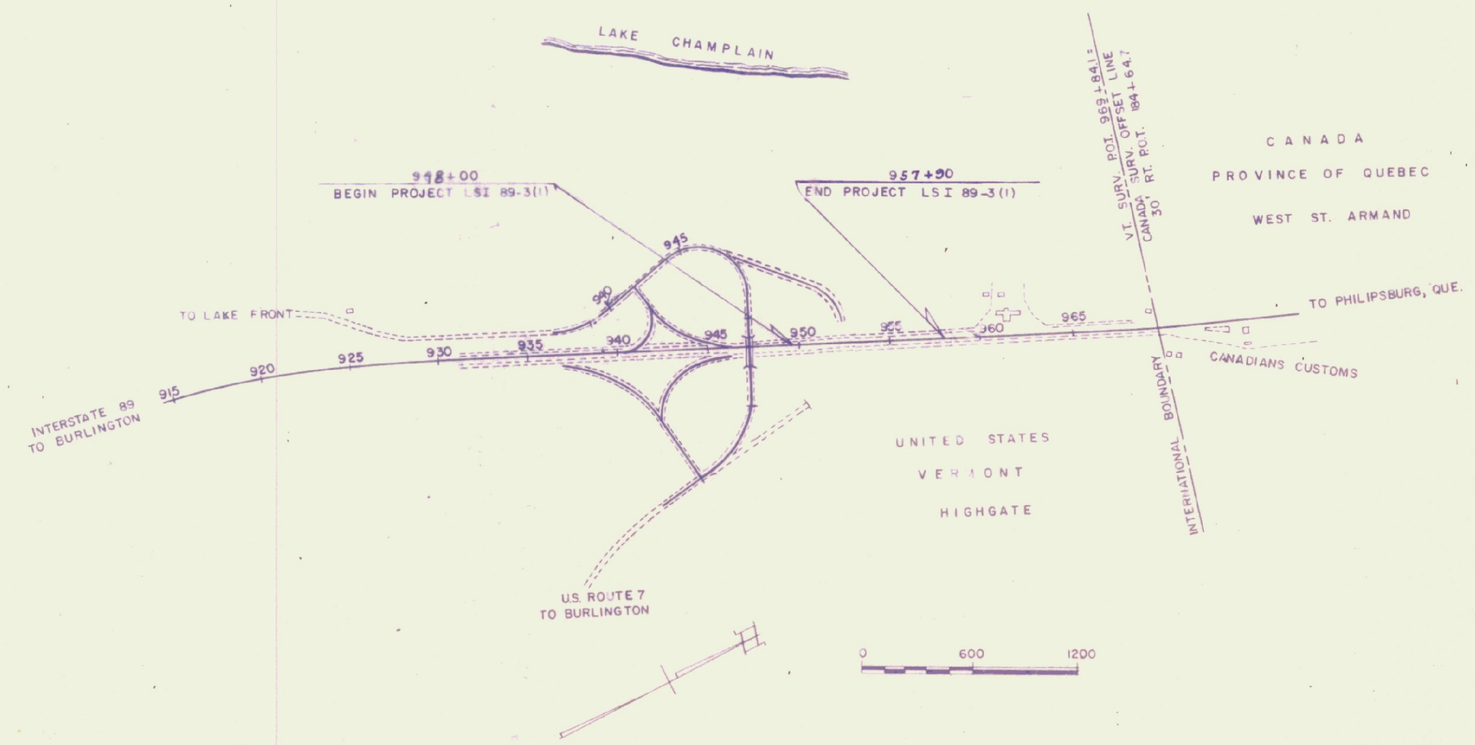
TOWN OF HIGHGATE
COUNTY OF FRANKLIN
ST. ALBANS, VT. – PHILIPSBURG, QUE. ROAD
INTERSTATE ROUTE 89

BEGINNING AT A POINT 0.565 MILE SOUTH OF THE U.S. – CANADA INTERNATIONAL BOUNDARY LINE AND EXTENDING NORTHERLY 990 FEET.

LENGTH OF PROJECT 990 FEET. — 0.188 MILES







PROJECT NAME & NUMBER	TYPE
HIGHGATE LSI 89-3(3)	REST AREA BUILDING

REQUIRED MATERIALS

SHERWIN ELECTRIC CO., SOUTH BURLINGTON, VT.
BRADY LANDSCAPING, SOUTH BURLINGTON, VT.
ALLSTATE ASPHALT CO., SUNDERLAND, MASS.
L.M. PIKE & SONS, INC., LACONIA, N.H.
ANDERSON CONCRETE CO., SWANTON, VT.
SWANTON LIME WORKS, SWANTON, VT.
ALPHA PORTLAND CEMENT CO., CATSKILL, N.Y.
K. ROSS, LEBANON, NEW HAMPSHIRE
CARPENTER SUPPLY CO., INC. COLCHESTER, VT.
ROBINSON CLAY PRODUCTS CO., ALBANY, N.Y.
BARRETTO GRANITE CORP., MILFORD, N.H.
S.T. GRISWOLD CO., INC., WILLISTON, VT.
W.R. GRACE CO., CHARLOTTE, VT.
BURLINGTON RENDERING CO. BURLINGTON, VT.
ROBERT CARMAN, SWANTON, VT.
KAUSTINE FURNACE & TANK CO., PERRY, N.Y.

CONTRACTOR – THE PIZZAGALLI CONSTRUCTION CO., INC., SO. BURLINGTON, VERMONT RESIDENT ENGINEER: L.A. COLLINS	CONTRACT DATED 5/9/67 STARTED: 6/12/67 COMPLETED: 4/26/68
RECORD PLANS – W.J. GOODHEART	ACCEPTED – 4/26/68

CONVENTIONAL SIGNS

COUNTY LINE
TOWN LINE
FENCE LINE
STONE WALL
UNFENCED PROPERTY
GUARD RAIL
TRAVELED WAY
RAILROAD
RETAINING WALL
CENTER LINE
SURVEY LINE
CULVERT
DROP INLET
TROLLEY POLE
POWER POLE
TELEPHONE POLE
TREES
HEDGE

GROUND ELEVATION	DATUM	MSL LINE
GRADE ELEVATION	DATUM	MSL LINE
CURVE DATA		
DEFLECTION OF ANGLE		Δ
DEGREE OF CURVE		D
RADIUS OF CURVE		R
TANGENT DISTANCE		T
LENGTH OF CURVE		L
EXTERNAL DISTANCE		E
POINT OF INTERSECTION		P.I.
POINT OF CURVE		P.C.
POINT OF TANGENT		P.T.
POINT ON TANGENT		P.O.T.
POINT ON SUB-TANGENT		P.O.S.T.

HIGHGATE LSI-89-3(3)
PIZZAGALLI CONSTRUCTION CO., INC.
SOUTH BURLINGTON, VT.
CONST. COMPLETED – 4/26/68
(RECORD) PLANS – W.J. GOODHEART

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE COMMISSIONER OF HIGHWAYS.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION DATED APRIL, 1964, AS APPROVED BY THE BUREAU OF PUBLIC ROADS ON OCTOBER 12, 1964, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

APPROVED E.H. Stickney, ASST. CHIEF ENGINEER DATE 6/9/66	APPROVED B.T. Finch, CONSTRUCTION ENGINEER DATE 5/23/66	APPROVED W.J. Goodheart, LANDSCAPE ENGINEER DATE MAY 17, 1966	APPROVED B.M. Blanchard, DISTRICT ENGINEER DATE 6/6/66	APPROVED G.M. Lane, HIGHWAY ENGINEER DATE May 17, 1966	APPROVED R.W. Crowell, CHIEF ENGINEER DATE 6/2/66 SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD

DEPARTMENT OF TRANSPORTATION
BUREAU OF PUBLIC ROADS

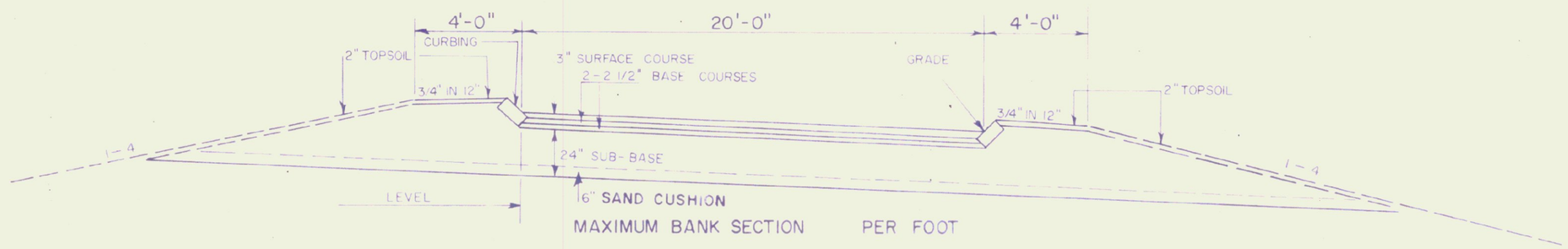
APPROVED

DIVISION ENGINEER DATE

PROJECT LSI NO. 89-3(3)

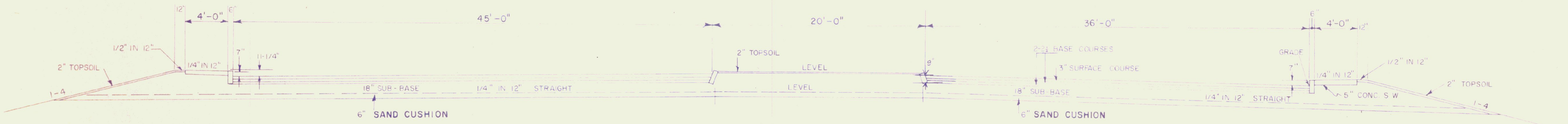
SHEET 1 OF 40 SHEETS

RAMP AND PARKING LOT TYPICALS



TYPICAL RAMP SECTION

3" BITUMINOUS CONCRETE PAVEMENT — ITEM 361
5" CRUSHED STONE OR CRUSHED GRAVEL PLANT MIX BASE — ITEM 213
24" SUB-BASE OF CRUSHED ROCK — ITEM 204



TYPICAL PARKING LOT SECTION

3" BITUMINOUS CONCRETE PAVEMENT — ITEM 361
5" CRUSHED STONE OR CRUSHED GRAVEL PLANT MIX BASE — ITEM 213
18" SUB-BASE OF CRUSHED ROCK — ITEM 204

SURVEYED BY _____ DATE _____
DRAWN BY _____ DATE _____
TRACED BY _____ DATE _____

PROJ. LSI NO. 89-3(3)
SHEET 2 OF 40

DRAINAGE AND ITEM QUANTITY SHEET

STATE OF VERMONT — DEPARTMENT OF HIGHWAYS
PROJECT NO.

APPROXIMATE SUMMARY OF QUANTITIES

BRIDGE	ROADWAY	GRAND TOTAL	UNIT	ITEM		ITEM NO
		3,942	C.Y.	Unclassified Excavation	14	103C
		12,124	C.Y.	Granular Borrow	457	105
		467	C.Y.	Trench Excavation of Earth (up to 5')	33	106A
		25	C.Y.	Trench Excav. of Earth (over 5')		106-A
		10.0	C.Y.	Trench Excavation of Rock	est.	106-B
		2060	S.Y.	Fine Grading Subgrade	37	107
		65	C.Y.	Structure Excavation	est.	109
		41	hr.	Bulldozer Rental	est.	120
		0	C.Y.	Sub-base of Sand	est.	202
	3,170	3400	C.Y.	Sub-base of Crushed Rock	64	204
		26,975.0	Ton	Crushed Stone Plant Mixed Base Course	3	213
		1170	Cu. yd.	Overhaul (One Est.)		221
		78	CY	Gravel Backfill	9	222
		0	CY	Stripping of Gravel Pits		223
		16	C.Y.	Crushed Stone Shoulders	4.3	303
		150	gal	Tack Coat, Type III	1	315
		153	C.Y.	Borrow		104
		660.7	Ton	Bituminous Concrete Pavement	1.1	361-Mod
		1.8	C.Y.	Concrete Class "B"	2 est.	401-B
		26,345	lb.	Reinforcing Steel	130 est.	402
		92,260	L.F.	6" Cast Iron Pipe, Mod.		414-A
		700	L.F.	8" Corr. Alum. Alloy Curv. Pipe		410-B
		1,320	L.F.	4" Vitrified Clay Pipe, Mod.		426-X
		3	Ea.	Sewage Distribution Box (12"x24")		997
		1	L.S.	Septic Tank (64"x89"x10')		998
		1	L.S.	Roadside Rest Facility Building		
		0+	Ea.	Manhole-Type II		528-B
		1794	L.F.	Bituminous Conc. Curb for Gutters	0.2	554
		1,263	L.F.	Granite Slope Edging	2	556-A
		358	L.F.	Vertical Granite Curb	4	558-B
		0	S.Y.	One Course Cement Concrete Sidewalk	1.5	560
		907	L.F.	Property Line Fence w/Steel Posts	est.	583-I
		8 4	ea.	Steel Gates for Property Line Fence	est.	583-II
		92	L.F.	Removal & Disposal of Guard Rail		549
		58.8	T.	Bit. Conc. Sidewalk		562
		1	Ea.	Roadside Rest Facility Building		999
		550	lb.	Seeding	22	611
		1840	lb.	Commercial Fertilizer	50	615
		6 4	ton	Ground Limestone	0.4	616
		1,543	C.Y.	Topsoil	6	621
		7.5 4	ton	Mulch	0.4	622
		130	S.Y.	Wood Chip Mulch		625
		46	ea.	Red Pine (Pinus Resinosa)		631
		86	ea.	Pfitzer Juniper (Juniperus Chinensis Pfitzeriana)		632
		21	ea.	Sugar Maple		633
		11	ea.	Red Maple		634
		4	ea.	Hawthorn		634.5
		5	ea.	Picnic Table		633
		1	L.S.	Street Lighting		705

DETAILED SUMMARY OF QUANTITIES

QUANTITY	UNIT	ITEM
1142		Unclassified Excavation
1086	CY	Roadway
2,557	CY	Leaching field Est.
243	CY	Rounding
3,942	CY	Total
		Trench Excav. of Earth up to 5' depth
64	CY	Roadway
372	CY	Septic Tank System
51	CY	Rounding
487	CY	Total
		Granular Borrow
3,000	CY	Building Lot
6,614	CY	Roadway
2,510	CY	Rounding
12,124	CY	Total
		Seeding
220	lbs	Roadway
308	lbs	Building Lot & Leaching Field
22	lbs	Rounding
550	lbs	Total
		Commercial Fertilizer
810	lbs	Roadway
1,030	lbs	Building Lot & Leaching Field
50	lbs	Rounding
1840	lbs	Total
		Ground Limestone
2.6	Tons	Roadway
3.4	Tons	Building Lot & Leaching Field
0.4	Tons	Rounding
6.0	Tons	Total
		Topsoil
678	CY	Roadway
865	CY	Building Lot & Leaching Field
6	CY	Rounding
1,543	CY	Total
		Mulch
3.3	Tons	Roadway
4.2	Tons	Building Lot & Leaching Field
0.4	Tons	Rounding
7.5	Tons	Total

DRAINAGE STRUCTURES

STA	POS	OLD CULVERT	TYPE IN	TYPE OUT	A.C.C.G.M.P. D	L	Ga.	Elbows D	L	Ga.	Item 554	Depth 01	PRCC 01	Item 204	TRENCH EXCAV EARTH	ROCK	RELAY PIPE	ASKEW LT.	RT.	Conc. Class B	Reinf. Steel	C.R.M.	DITCHES IN	OUT	REMARKS
6+90	Rt. Parking Lot										1.6			1	1										Bituminous Conc. Gutter
6+90	LT. Parking Lot										2.2			1	1										Bituminous Conc. Gutter
Project Total											3.8			2	2.0										

TYPE OF CONSTRUCTION:

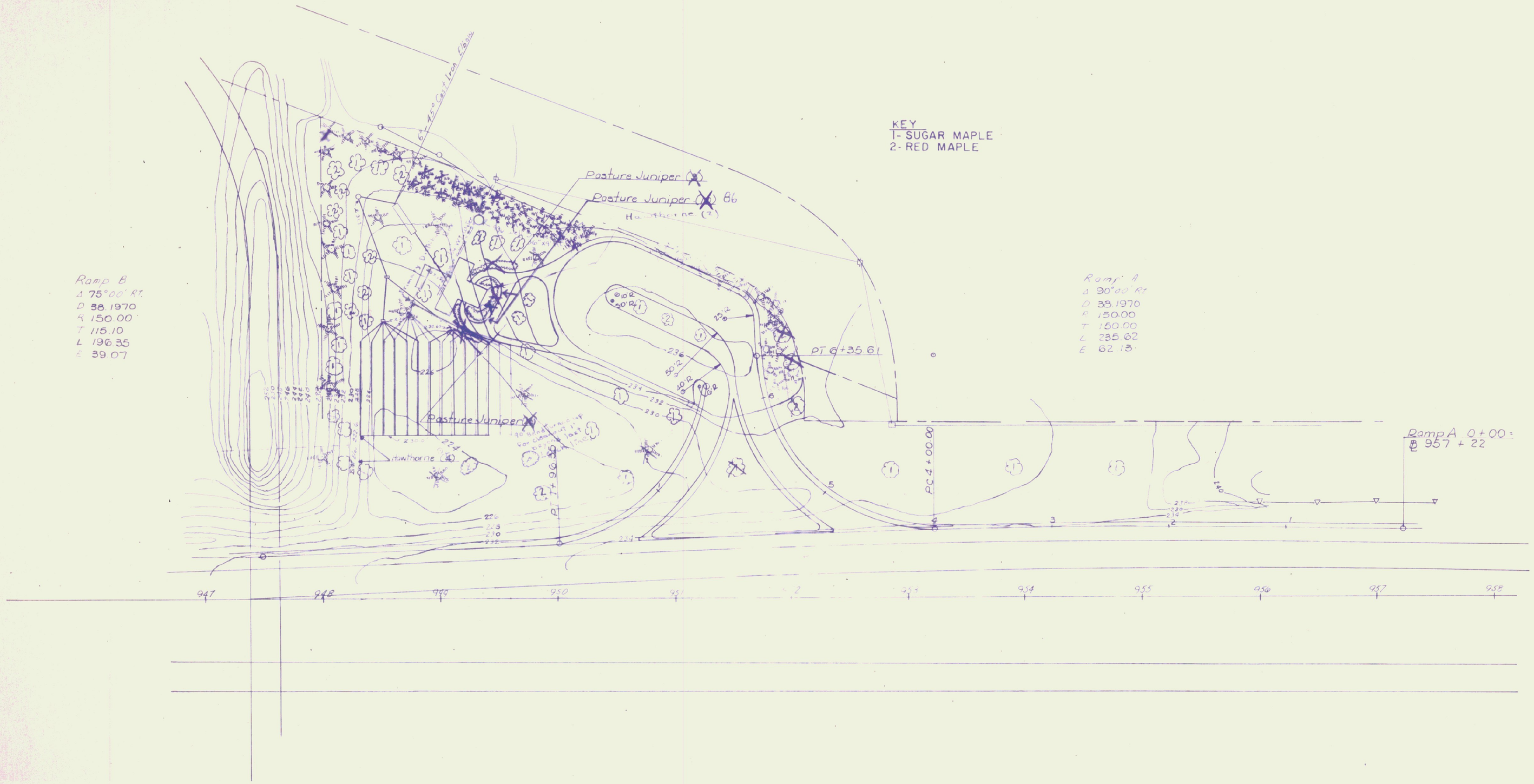
STATIONS FROM	TO	PAVEMENT WIDTHS	EQUATIONS +	—	REMARKS

LENGTH OF PROJECT

STA.	STA.	FEET	MILES	REMARKS

HIGHGATE

PROJECT LSI NO. 89-3(3)
SHEET 3 OF 40



EVERGREEN TREES 6'-8'
RED PINE - 48

EVERGREEN SHRUBS 18"-24" SPREAD
PASTURE JUNIPER - 26

DECIDUOUS TREES 10'-12'
SUGAR MAPLE - 21
RED MAPLE - 11

DECIDUOUS TREES 6'-8'
HAWTHORN - 4

HIGHGATE REST AREA

SURVEYED BY _____ DATE _____
DRAWN BY _____ DATE _____
TRACED BY _____ DATE _____

PROJ. [illegible] NO. [illegible]
SHEET [illegible] OF 40

NOTE:
LIGHTING SYSTEM TO BE ERECTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR "STREET LIGHTING", ITEM 705, "STREET LIGHTING" AND AMERICAN STANDARD PRACTICE FOR ROADWAY LIGHTING (1963)

ALL POLES AND BRACKETS TO BE ALUMINUM. BRACKETS TO BE TAPERED ELLIPTICAL BRACKETS AS SHOWN ON STANDARD SHEET E-52.

ALL LIGHT STANDARDS TO BE EQUIPPED WITH TRANSFORMER BASES.

ALL LUMINAIRES TO BE ON A 6-FOOT BRACKET AND MOUNTED 30 FEET ABOVE THE PAVEMENT.

LUMINAIRES # 2 TO # 14 (INCLUSIVE) TO BE 400 WATT MERCURY VAPOR TYPE, ASA TYPE III LIGHT DISTRIBUTION.

LUMINAIRE # 1 TO BE 250 WATT MERCURY VAPOR TYPE, ASA TYPE III LIGHT DISTRIBUTION.

ALL CONCRETE BASES TO BE TYPE A (STANDARD SHEET E-51).

ALL CONCRETE BASES AND LIGHT STANDARDS, EXCEPT # 3 AND # 6, TO BE LOCATED 6 FEET BACK FROM SIDE OF PAVEMENT AND AT RIGHT ANGLES TO CURB OR EDGE OF PAVEMENT. LOCATE # 3 AND # 6 AS NOTED.

BASES # 1, # 5, # 6, AND # 14 TO BE PROVIDED WITH CAPPED CONDUIT AS SHOWN FOR FUTURE USE.

CONCRETE BASES, TYPE A = 14.
PULL BOXES, TYPE A = 2
ALUMINUM LIGHT POLES W/BRACKETS = 14
MERCURY VAPOR TYPE LUMINAIRE, 400 WATT = 13, 250 WATT = 1
APPROXIMATE LENGTH OF CONDUIT = 1,400 FT.

STREET LIGHTING CONDUIT TO BE CARRIED THROUGH FOUNDATION TO FIRE CONTROL PANEL SHOWN ON THE DETAILED BUILDING PLANS.

ITEM 705
STREET LIGHTING

SURVEYED BY _____ DATE _____
DRAWN BY _____ DATE _____
TRACED BY _____ DATE _____

MDOT L.S.I. NO. 69 3 3)
SHEET 7 OF 40

HIGHGATE REST AREA

D-7

CONTRACTOR TO INSTALL UNDERGROUND ELECTRIC SERVICE IN CONDUIT FROM MAIN ENTRANCE TO TRANSFORMER POLE AT APPROXIMATE LOCATION INDICATED AND VERTICALLY UP POLE IN CONDUIT TO POINT INDICATED BY VILLAGE OF SWANTON, ELECTRIC DEPARTMENT.

All conduit to be placed as part of ITEM 705

Ramp A 0+00 = @ 937 + 22

Ramp A
Δ 90°00' Rt
D 33.97°
R 150.00
T 180.00
L 235.62
E 82.13

Ramp B
Δ 78°00' Rt
D 38.197°
R 150.00
T 116.10
L 196.35
E 39.07

PC 1+00.00

PT 1+35.65

PT 0+35.65

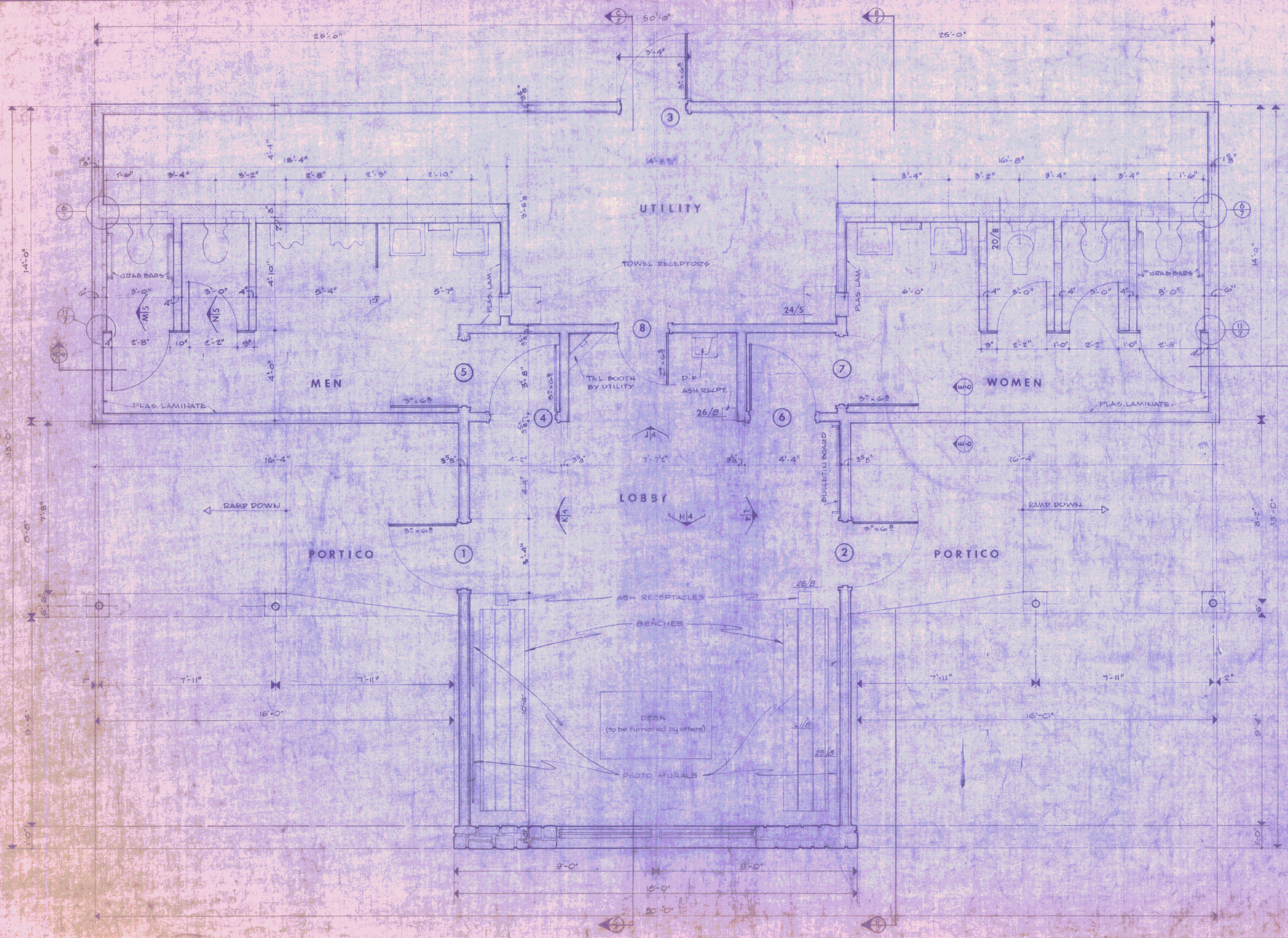
PULL BOX #1 TYPE A

POWER SUPPLY

PULL BOX #2 TYPE A

Ironbarrie (4)

937 938 939 940 941 942 943 944 945 946 947



HIGHGATE

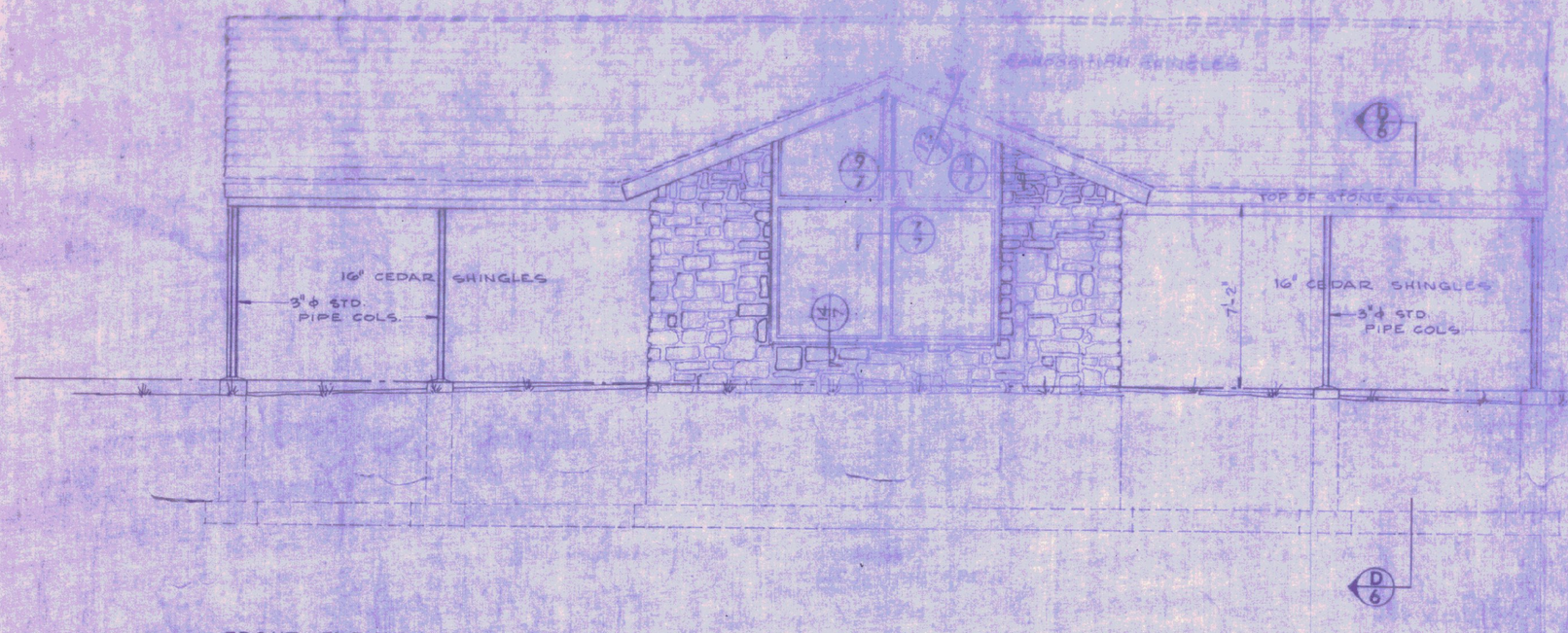
ROADSIDE REST FACILITIES

PLAN

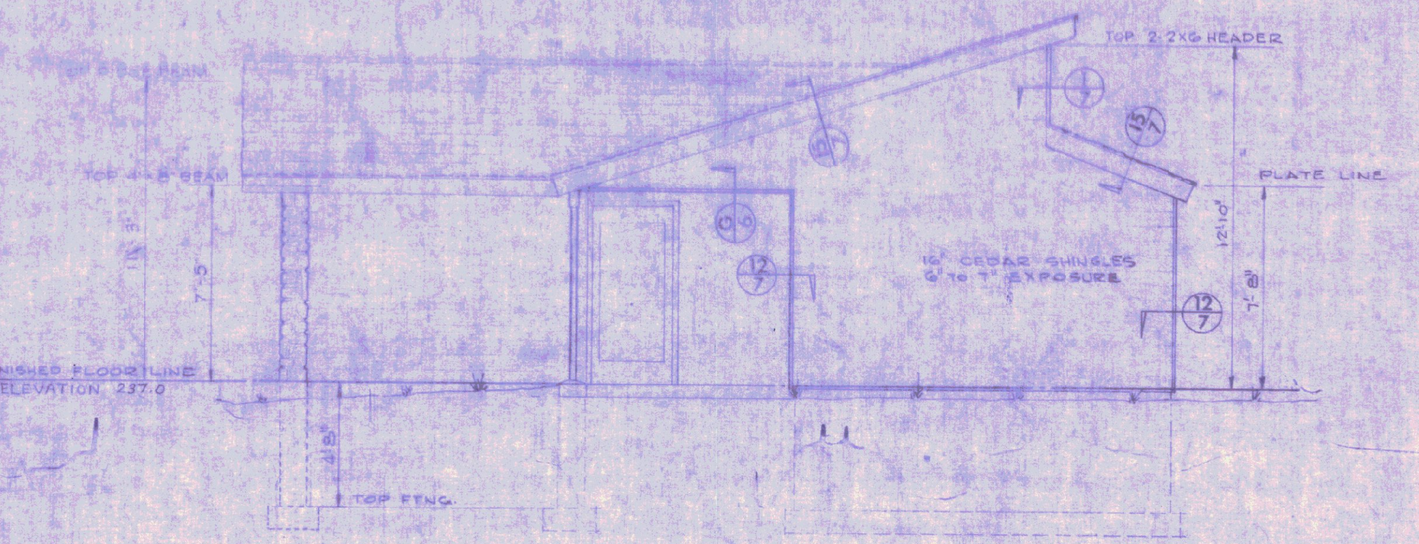
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROJECT LSI Nº 89-3(3) | 2

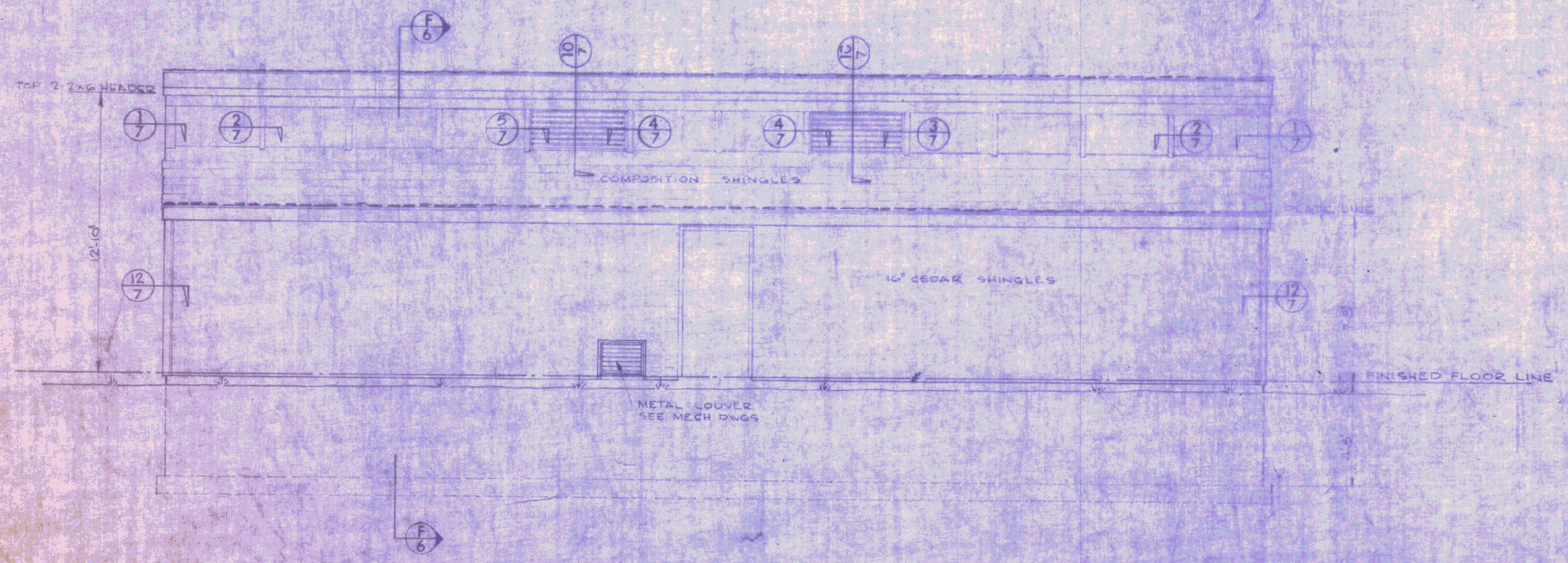
SCALE ½"=1'-0" | SHEET 8 OF 40



FRONT ELEVATION



SIDE ELEVATION



REAR ELEVATION

HIGHGATE

ROADSIDE REST FACILITIES

ELEVATIONS

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROJECT LSI No. 89-3(3)

SCALE 1/4"=1'-0" | SHEET 9 OF 40

3

ROADSIDE REST FACILITIES

LONGITUDINAL SECTION & INTERIOR ELEV'S

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

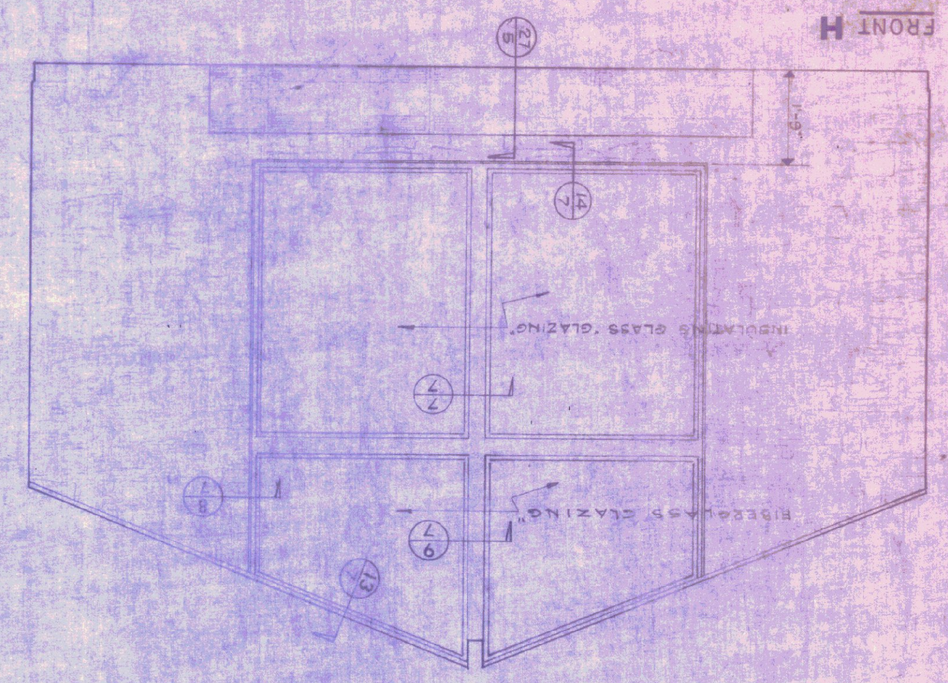
PROJECT LSI N° 89-3 (3)

SCALE: 1/2"=1'-0" SHEET NO. OF 40

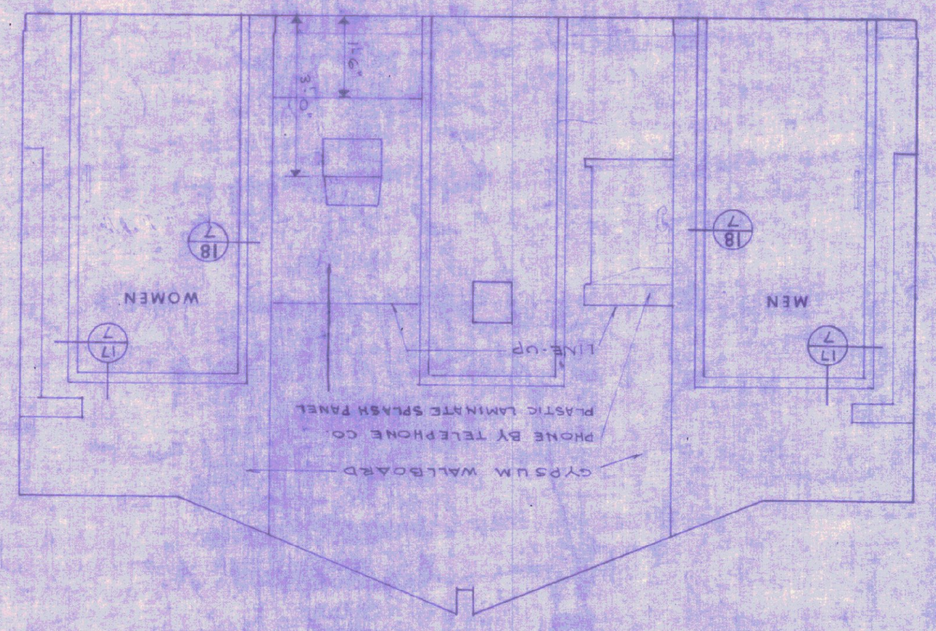
4

LOBBY ELEVATIONS

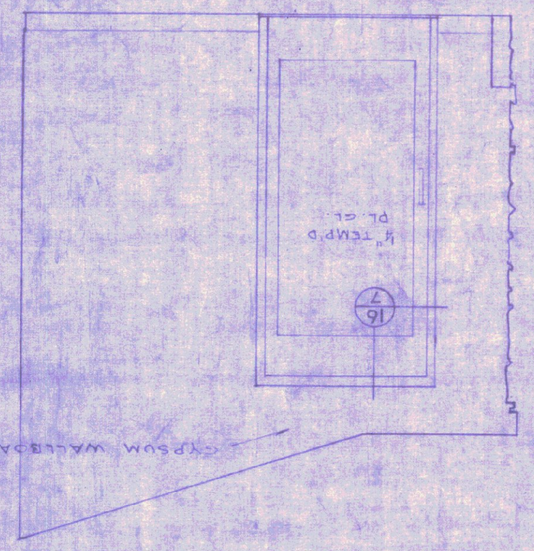
FRONT H



REAR J

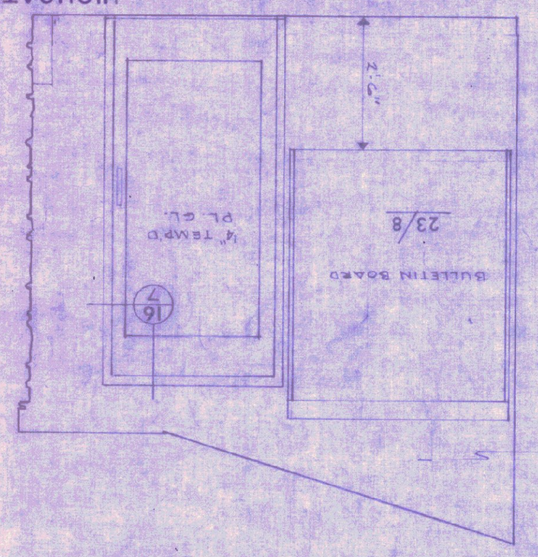


LEFT K

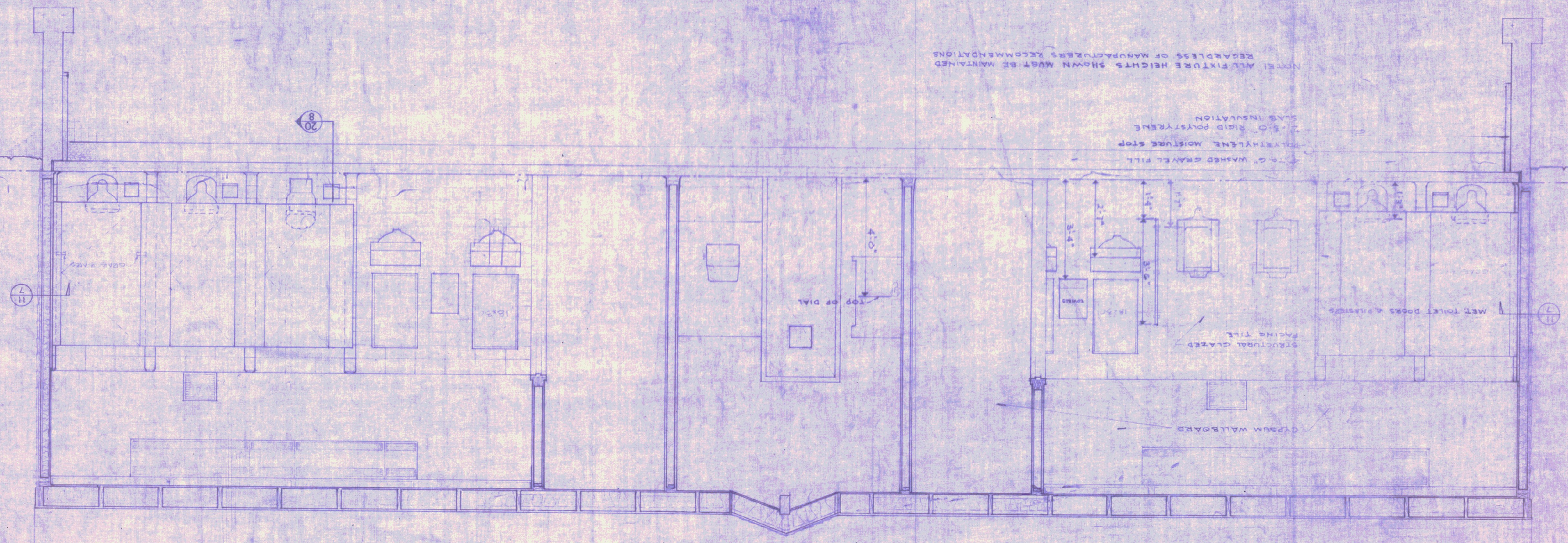


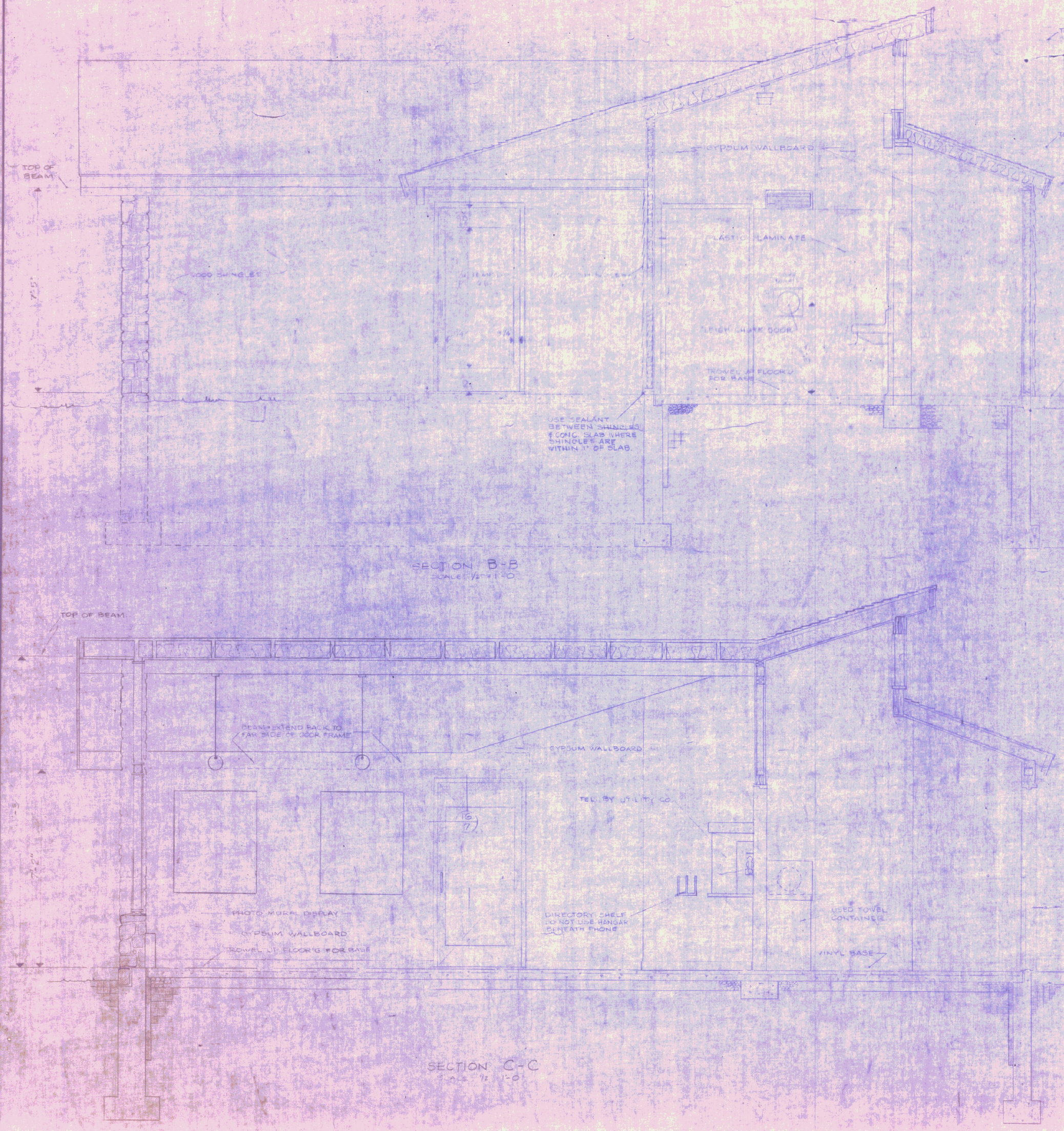
RIGHT L

HIGHGATE



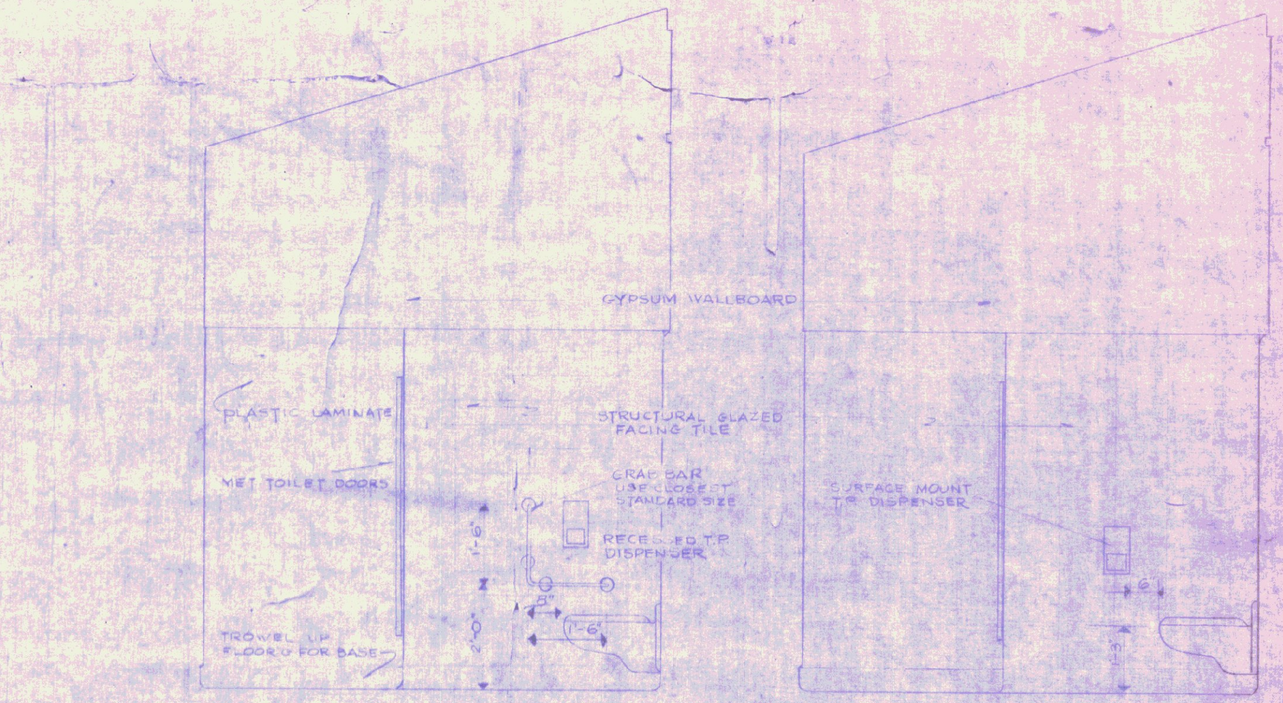
SECTION A-A



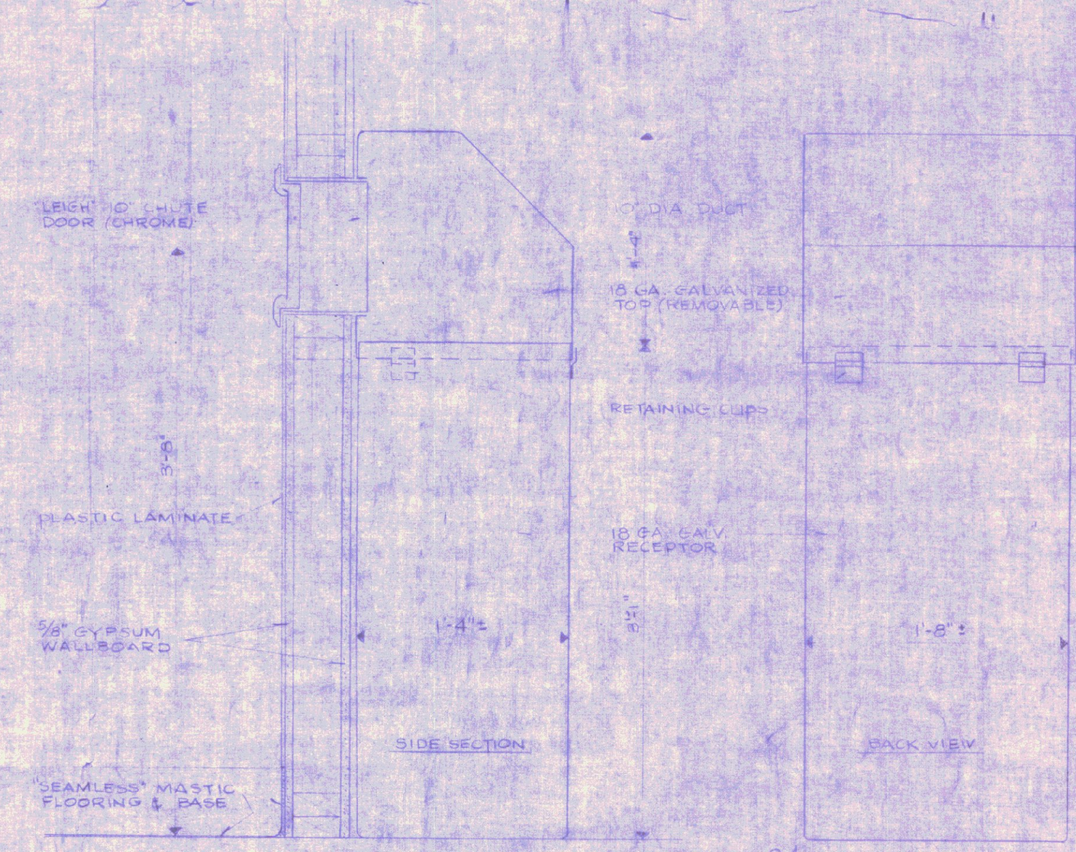


SECTION B-B
SCALE: 1/2" = 1'-0"

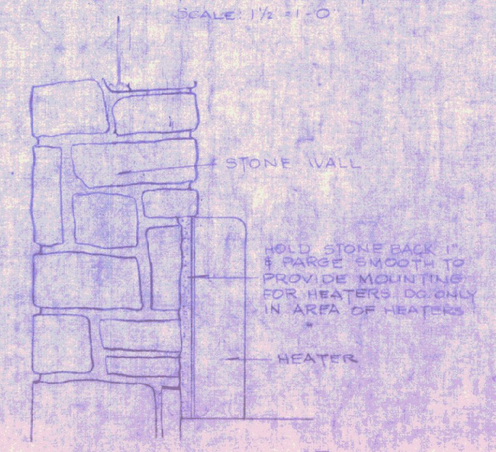
SECTION C-C
SCALE: 1/2" = 1'-0"



M INTERIOR ELEVATIONS N
SCALE: 1" = 1'-0"



USED TOWEL RECEPTORS 24
SCALE: 1½" = 1'-0"



HEATER RECESS 27
SCALE: 1½" = 1'-0"

HIGHGATE

ROADSIDE REST FACILITIES

TRANSVERSE SECTIONS, INTERIOR ELEVATIONS AND DETAILS

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROJECT LSI № 89-3(3)

SCALE: AS SHOWN | SHEET 11 OF 40

5

HIGHGATE

ROADSIDE REST FACILITIES

VERTICAL SECTIONS

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROJECT LSI Nº 89-3 (3)

SCALE: 1/2"=1'-0" SHEET 12 OF 40

6

D-D

E-E

F-F

G

HIGHGATE

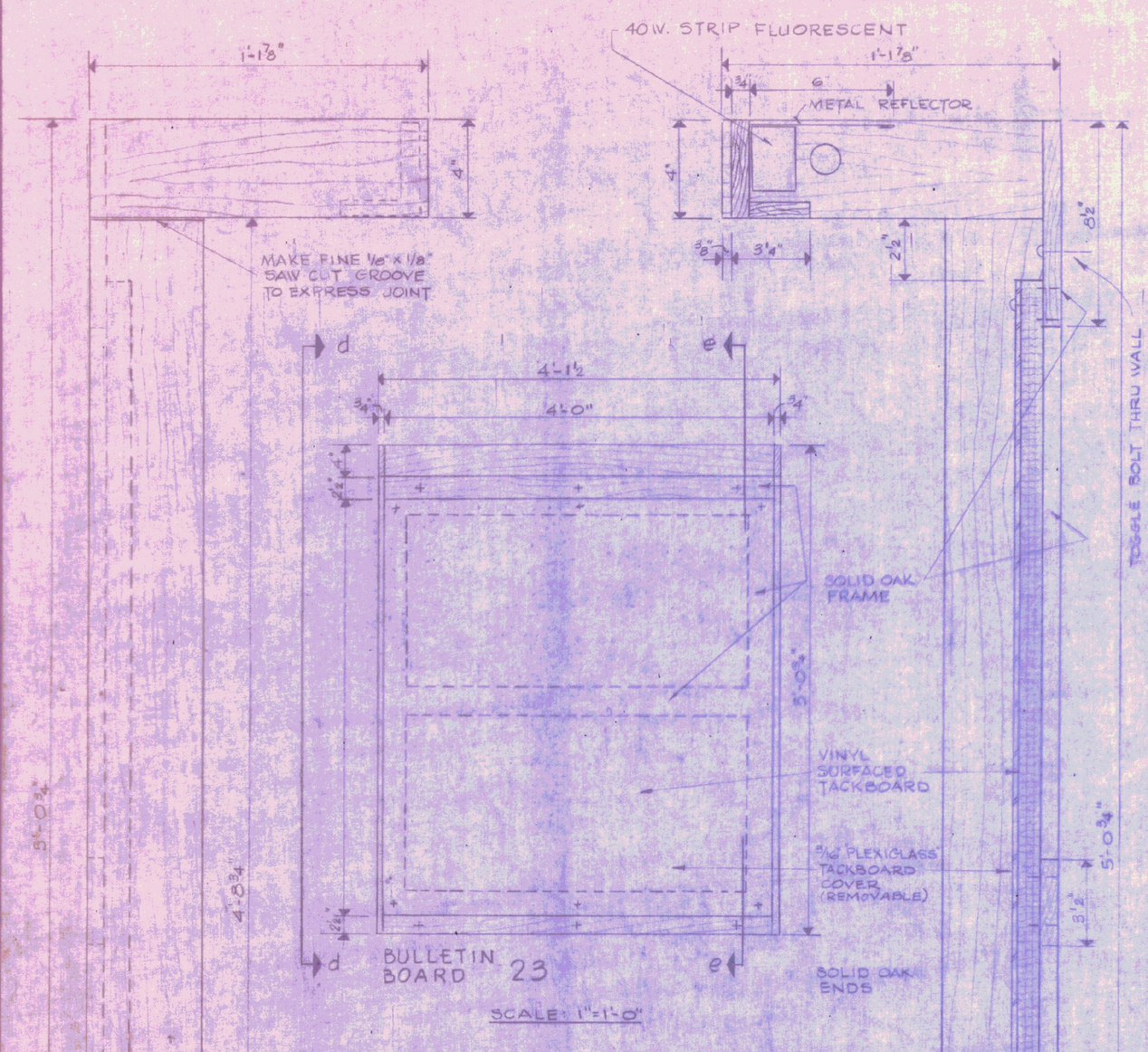
ROADSIDE REST FACILITIES

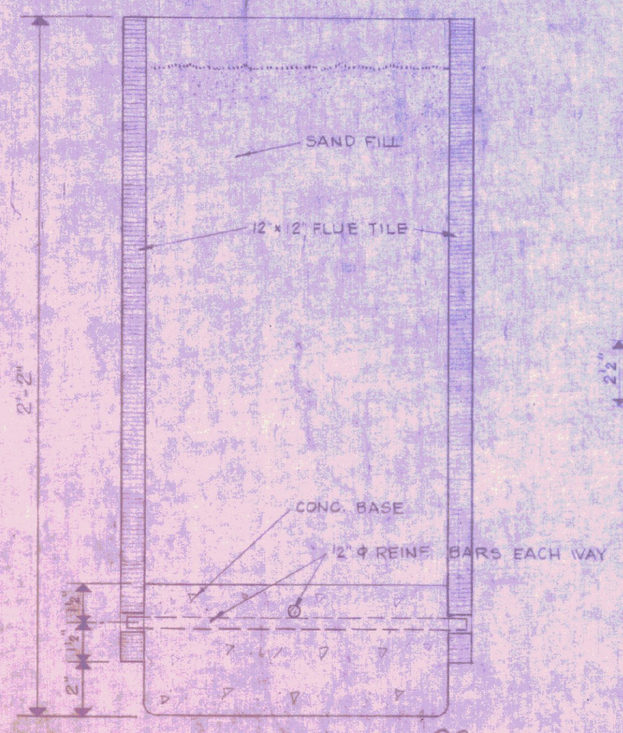
SECTIONS AND DETAILS

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROJECT LSI № 89-3 (3) SHEET 13 OF 40

SCALE 1-1/2"=1'-0"





ASH RECEPTACLES 26
SCALE: 3" = 1'-0"

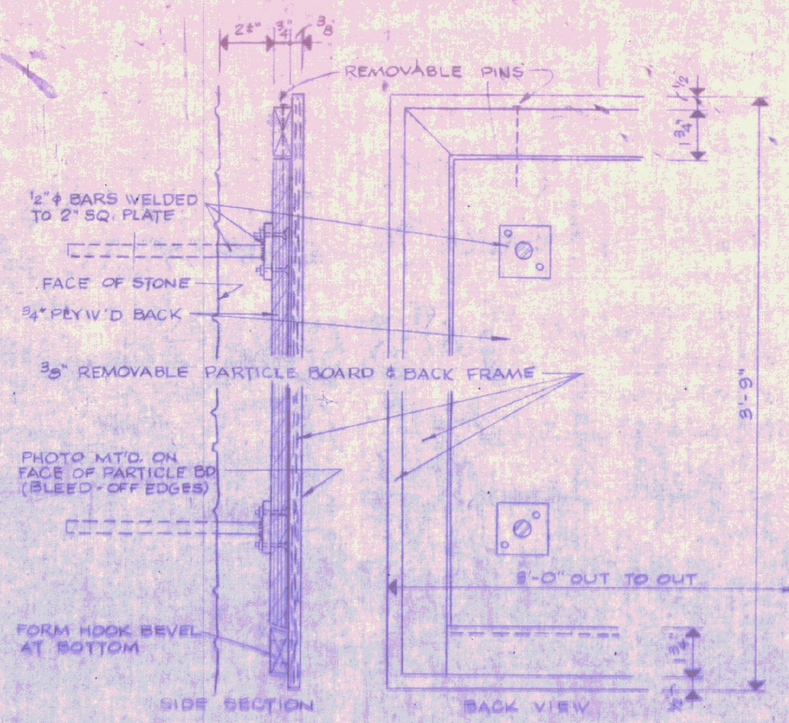
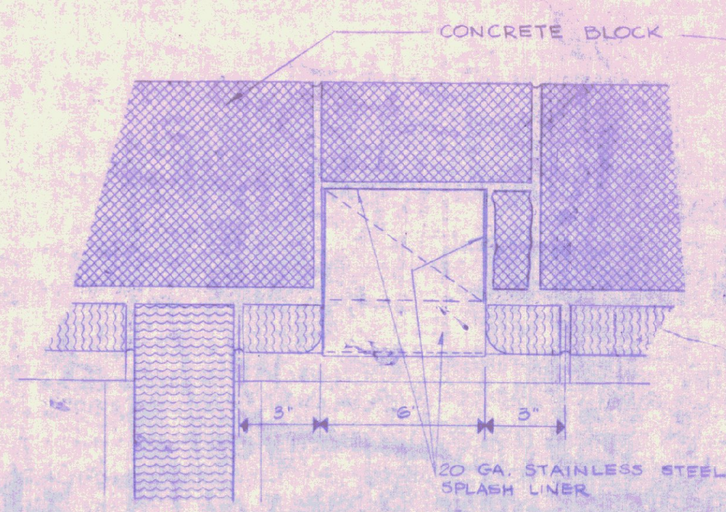
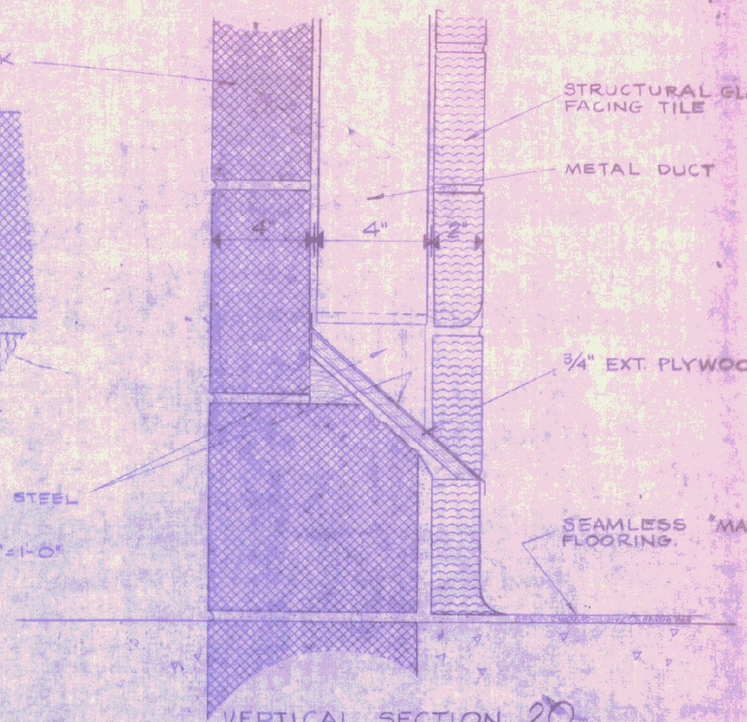


PHOTO MURAL MOUNTINGS 25
SCALE: 3"=1'-0"

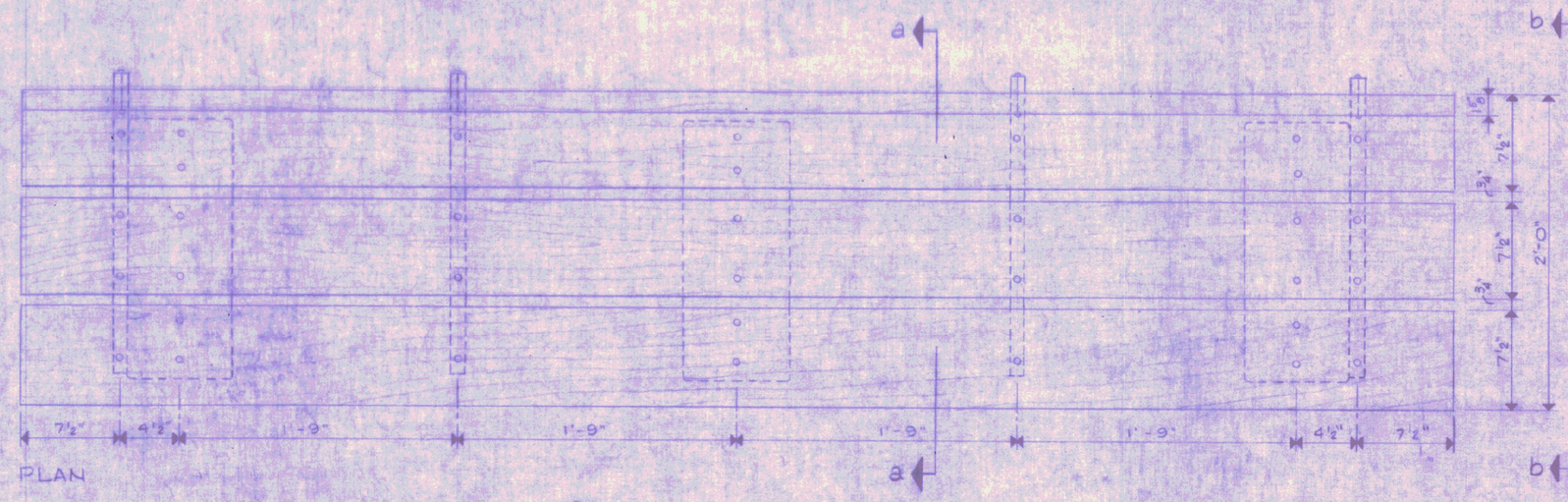


PLAN SECTION 19
SCALE: 3"=1'-0"

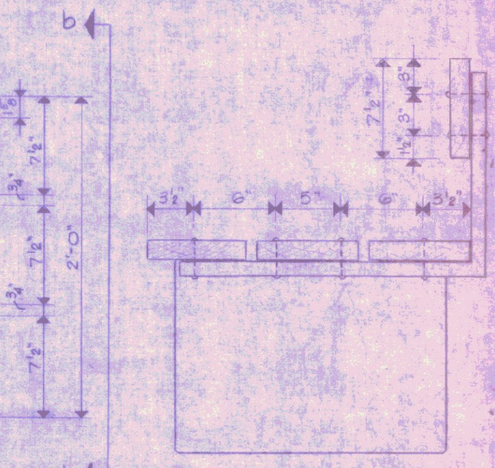


VERTICAL SECTION 20

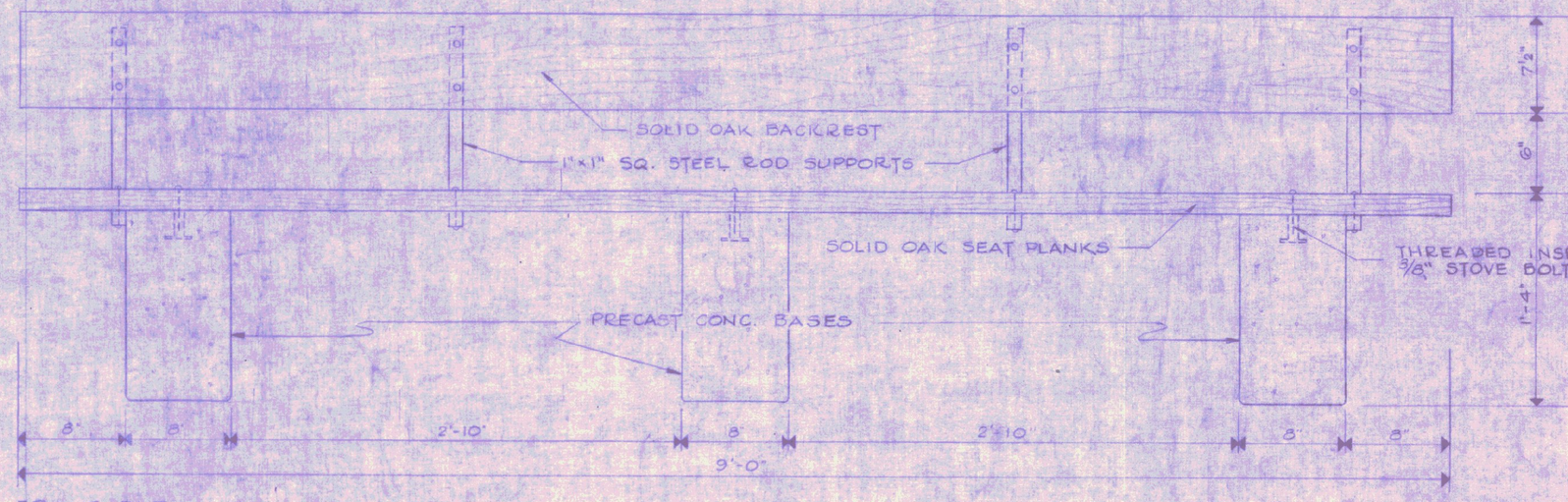
NOTE: ALL SCREWS, BOLTS & EXPOSED FASTENERS TO BE TAMPERPROOF.



PLAN

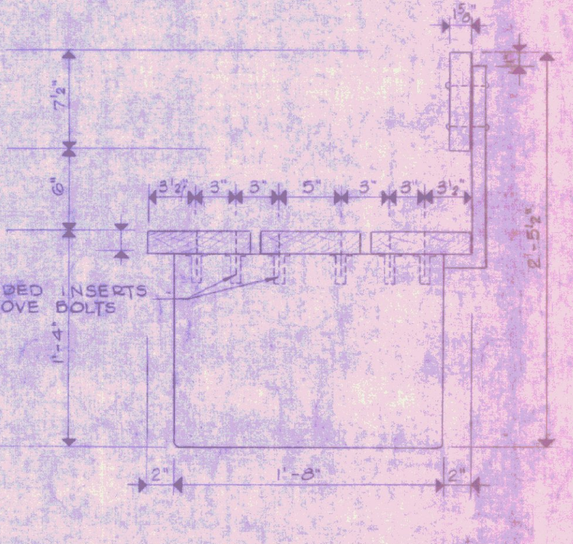


END ELEV. b-b



FRONT ELEV.

BENCH 21
SCALE 1½" = 1'-0"



SECTION a-a

HIGHGATE
ROADSIDE REST FACILITIES
INTERIOR DETAILS
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
PROJECT LSI № 89-3(3)
SCALE: AS SHOWN
SHEET 14 OF 40
8

HIGHGATE

ROADSIDE REST FACILITIES

PLUMBING (GEC-48-004, M-1)

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

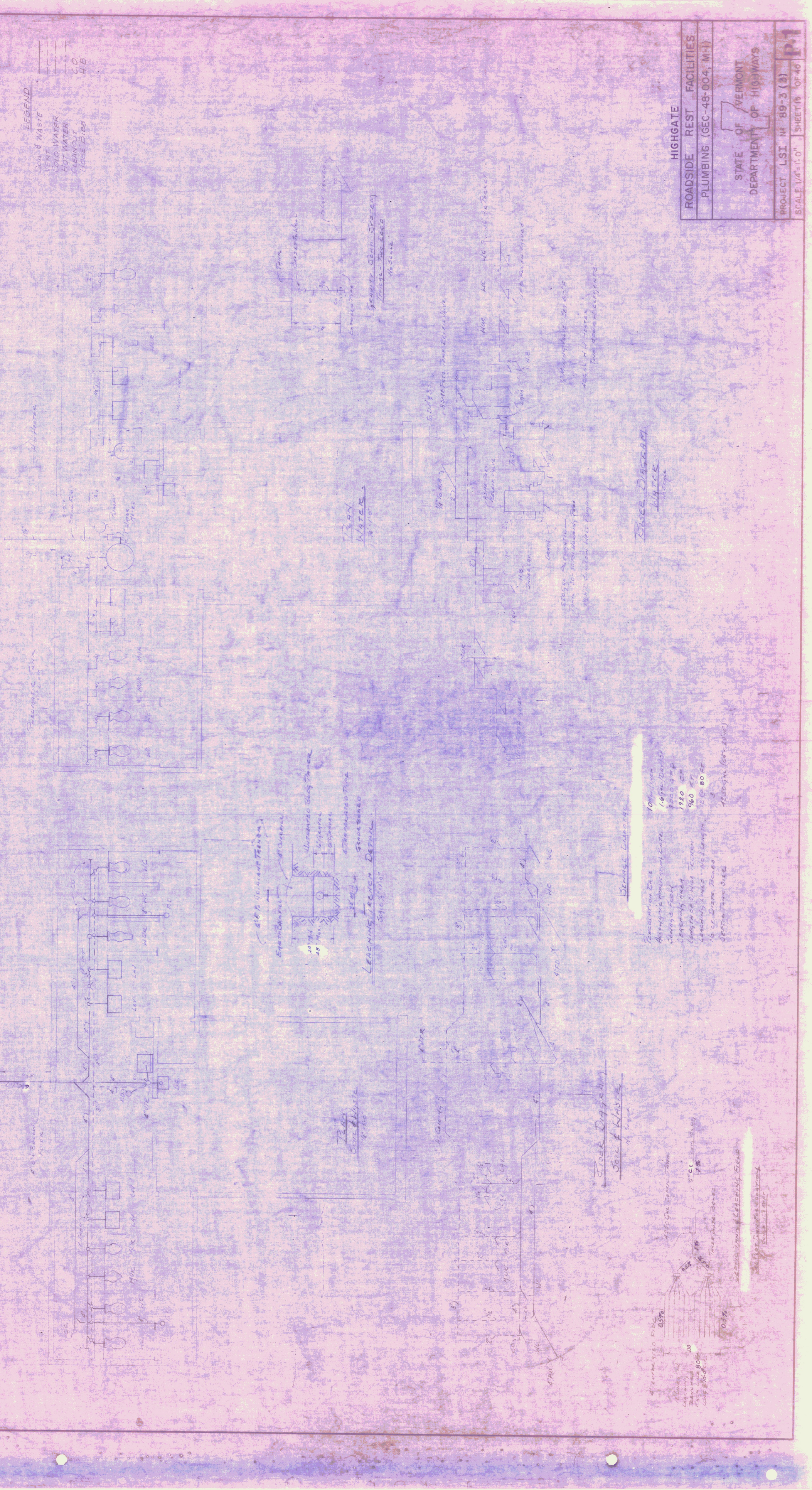
PROJECT LSI № 89-3(2) | P-1

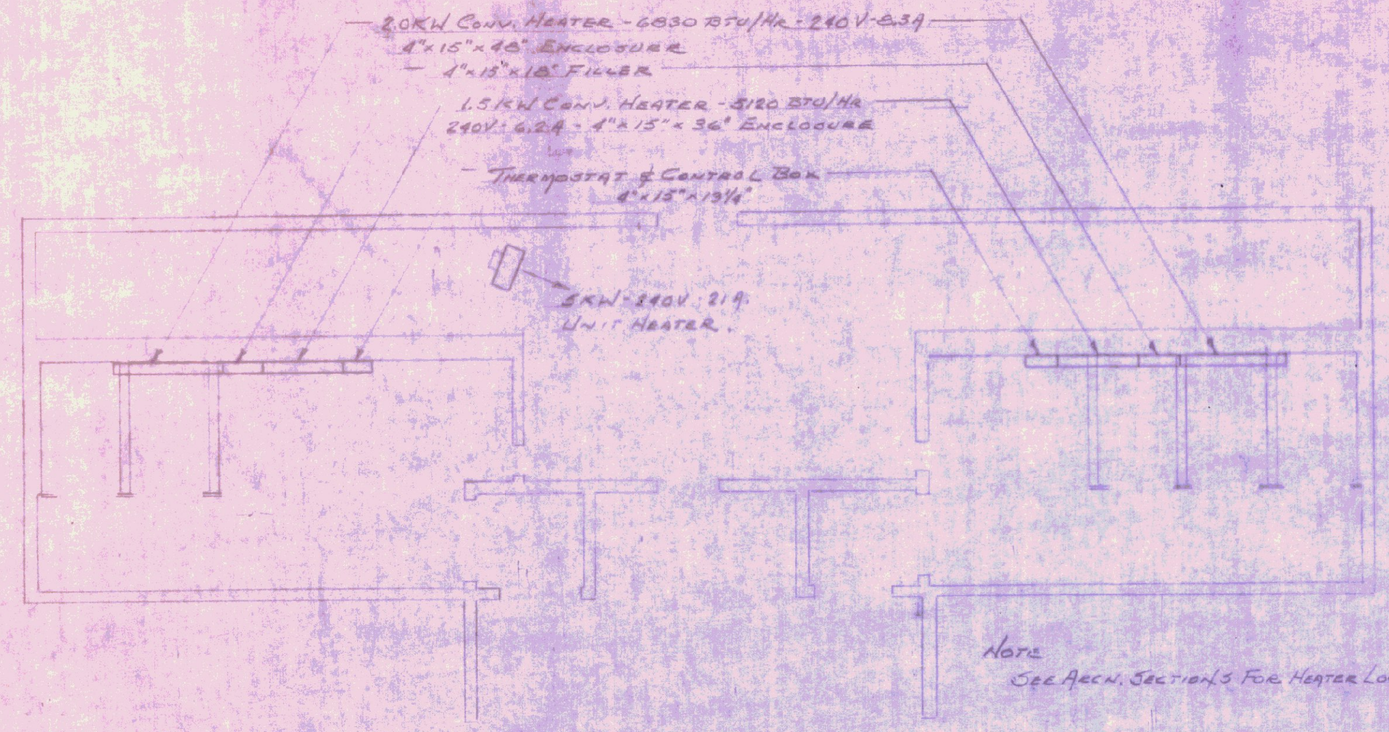
SCALE 1/4"=1'-0" | SHEET 16 OF 46

LEGEND

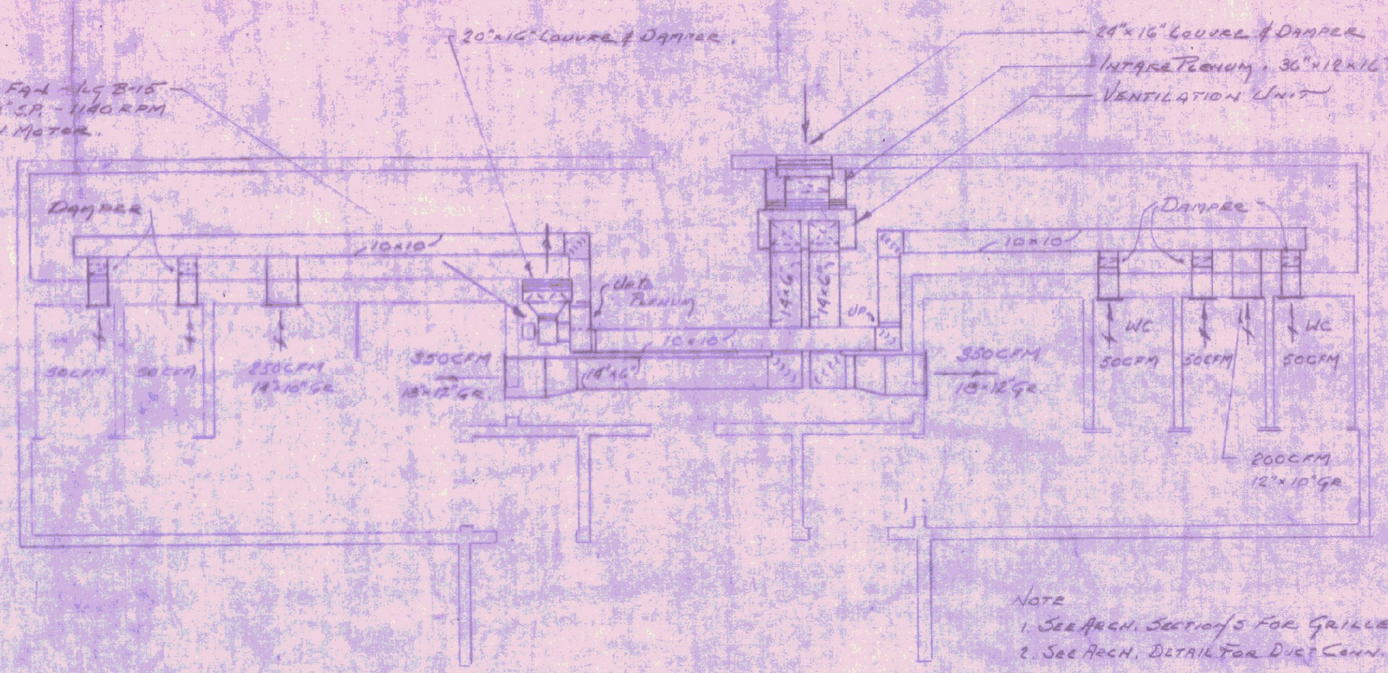
SOIL & WASTE
VENT
COLD WATER
HOT WATER
CLEANOUT
HOSE BIBB

C.O.
H.B.

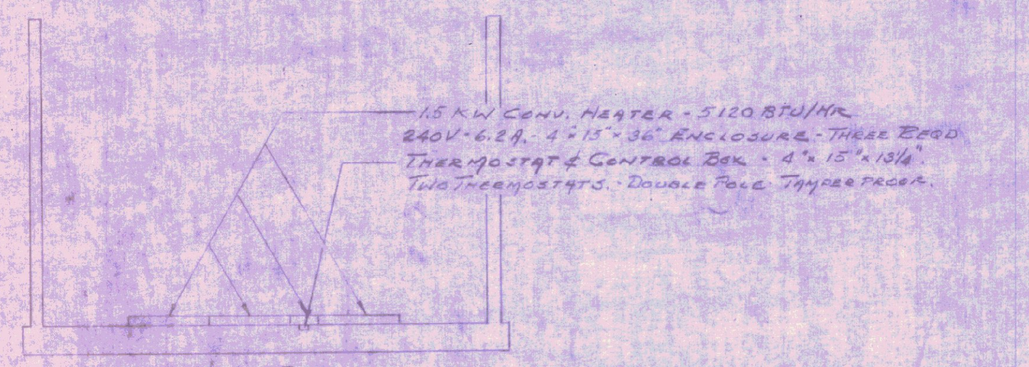




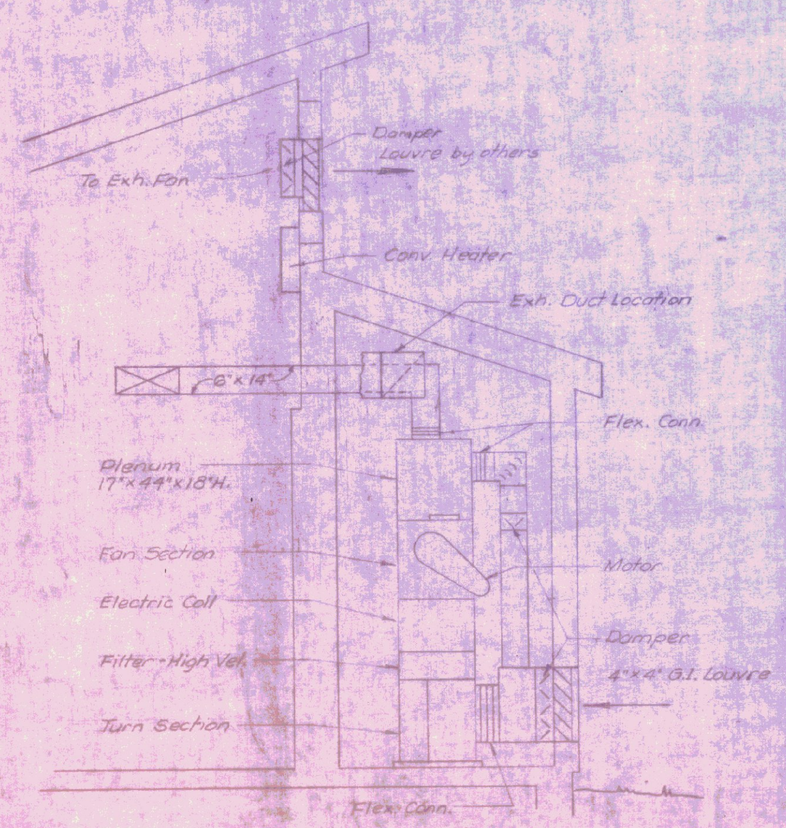
Note
See Arch. Sections for Heater Locations.



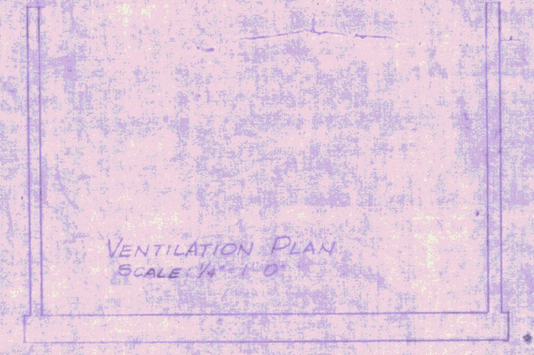
Note
1. See Arch. Sections for Grille Locations.
2. See Arch. Detail for Duct Conn. at Water Closets.



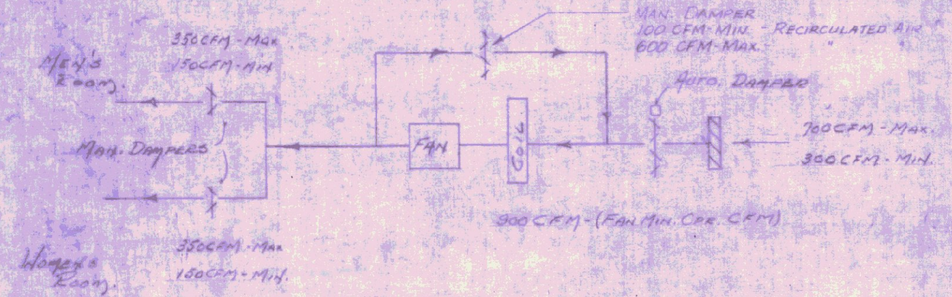
Heating Plan
Scale: ¼" = 1'-0"



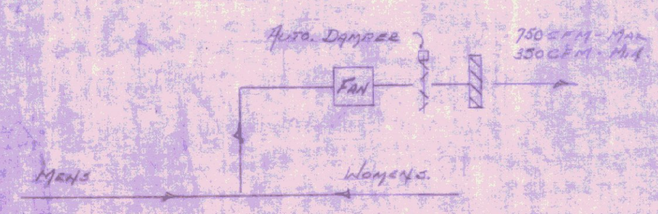
Section at Ventilation Unit
Scale: ½" = 1'-0"



Ventilation Plan
Scale: ¼" = 1'-0"



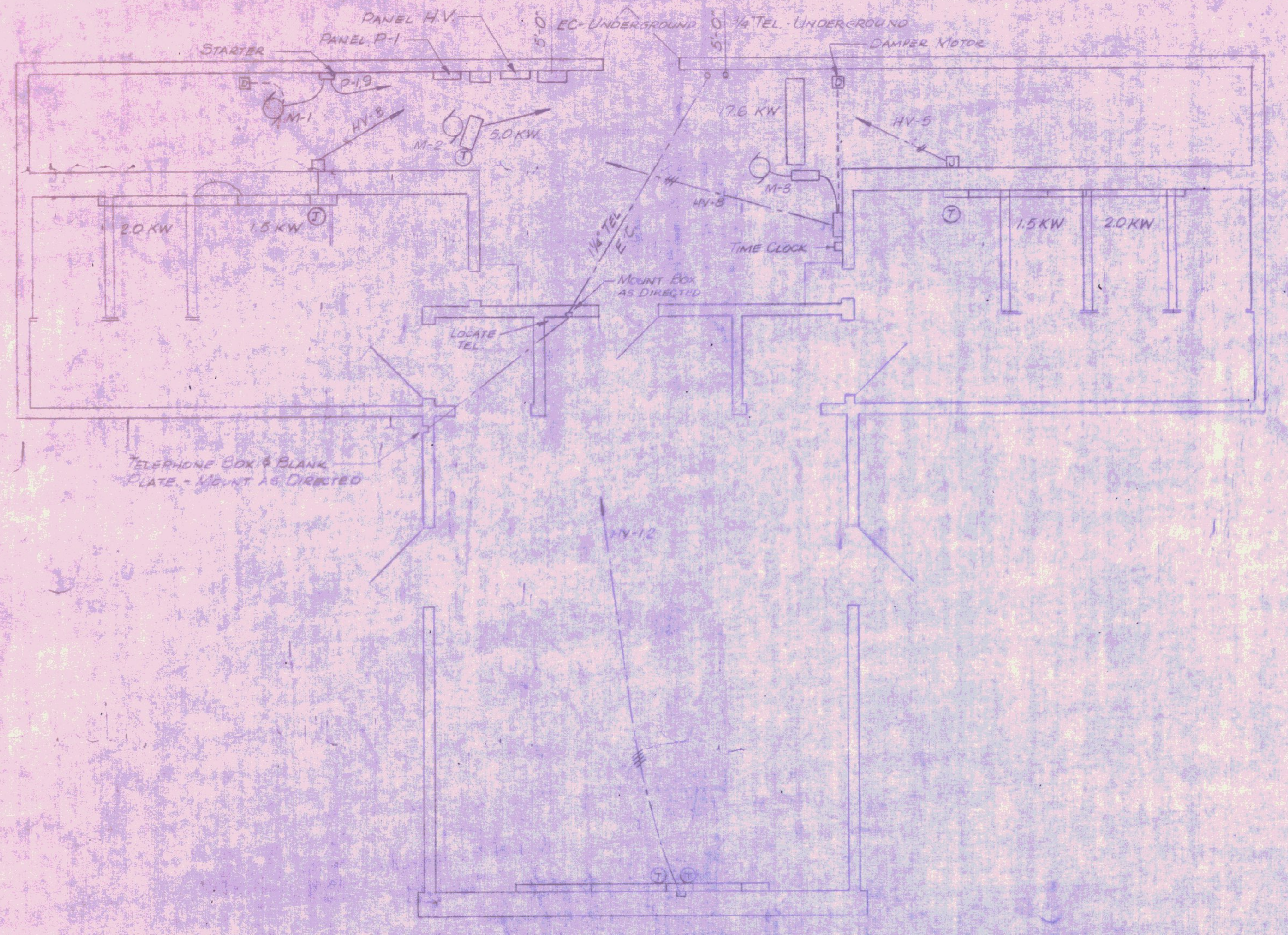
Ventilation System
Supply.



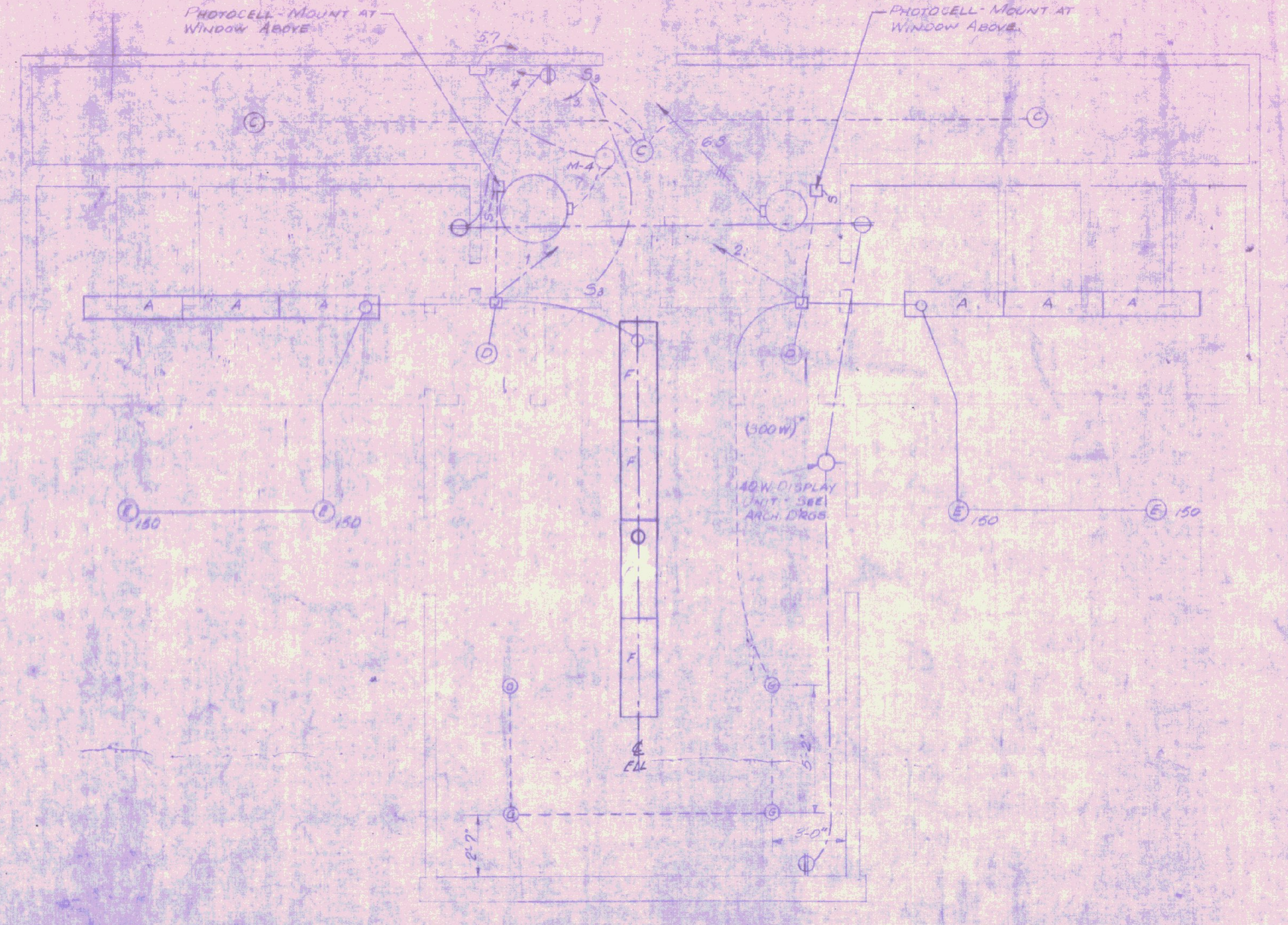
Ventilation System
Exhaust.

Flow Diagrams
No Scale.

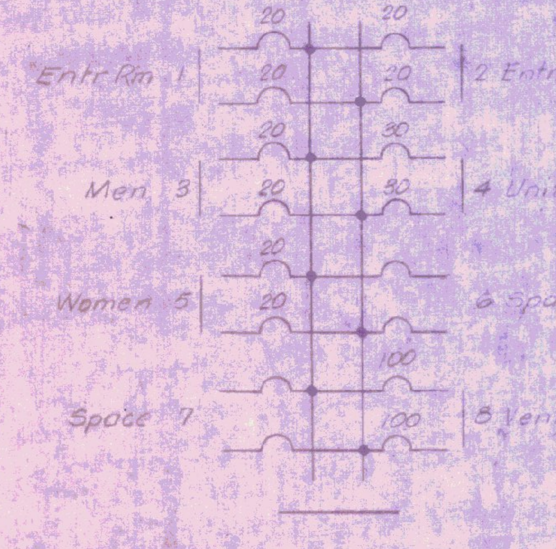
HIGHGATE
ROADSIDE REST FACILITIES
HEATING & VENTILATION (SEC-48-005, 6 of 7)
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
PROJECT LSIN# 89-3(3)
SCALE: As Shown
SHEET 16 OF 40



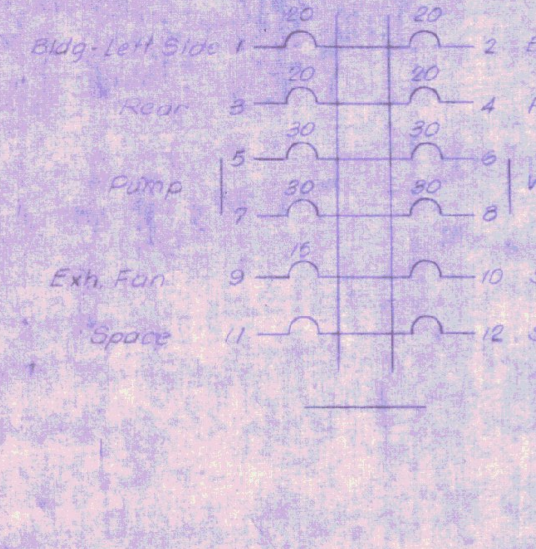
HEATING & VENTILATING
SCALE ¼" = 1'-0"



LIGHTING & MISC.
SCALE ¼" = 1'-0"



PANEL H-V
HEATING & VENTILATION



PANEL P-1
LIGHTING & MISC.

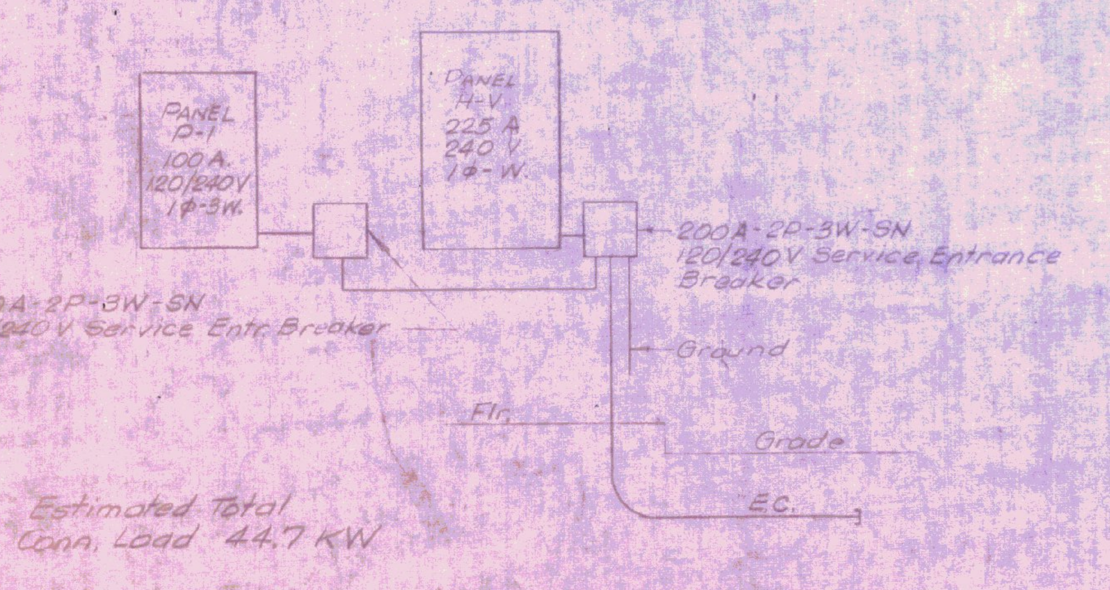
MOTOR LIST

Motor No.	Equip. Name	H.P.	Volt Phase	Type of Disc.	Motor Protection	Control
M-1	Exh. Fan	1/4	120 V 1φ	Breaker	Starter	Auto - From M-3 Starter
M-2	Unit Heater	1/80	240 V 1φ	Breaker	—	Note 1
M-3	Vent Unit	1/4	240 V 1φ	Disc. Sw.	Starter	Note 2
M-4	Water Pump	1/2	240 V 1φ	Breaker	Fused Disc.	Pres. Sw.

NOTES: 1. Starter with 5 KW coil from built-in thermostat.
2. Cont. of factory wired elect. heater unit control. Manual & auto time lock start & stop.

ELECTRICAL SYMBOL SCHEDULE

Symbol	Description	Mfr. & Cat. No.	Remarks
S	Single pole switch	15A - AC Fed. Spec. W-S-896-A	Surface mounted
S_3	Three way switch	15A - AC Fed. Spec. W-S-896-A	Surface mounted
⊖	Duplex Conv. Outlet Gnd.	—	Mount as directed
Ⓐ Ⓑ	Lighting Outlet Wall - Ceiling	See Lighting Fixture Schedule	
J	Junction Box	—	Provide Cover Plates
○ M-1	Motor & Number	—	Furnished & Installed by Others
Ⓣ	Thermostat	—	Control Box or Unit Mounted
	Branch Ckt. - Concealed in Ceiling or Wall	—	Elect. Metal Tubing
	Branch Ckt. - Concealed in Floor	—	Heavy Wall Conduit
	Broken Circuit Exposed	—	Type NM or Elect. Metal Tubing
	Home Run to Panel	—	—



RISER DIAGRAM

LIGHTING FIXTURE SCHEDULE

Mark	Manufacturer or equal	Catalog No. & Name	Lamp Max	Lamp to Install	Mounting	Size	Exposed Finish	Remarks
A	Miller *Day-Brite Wheeler	*41241 Vaporhune		4 F-40	Surface	12" x 48"	Gray	Use No. 18 ceiling spacer if req'd.
C	Bryant *Pass & Seymour Arrow Hart	*No. 44 Keyless Lampholder		100W	Box	4½" dia.	Porc.	—
D	Day-Brite *Art Metal Prescolite	*Recessed Sq. 15-3441-WS-TD-TL	150 W	100 W	Recess	11" x 11"	White	—
E	Omega *McPhilben Lightolier	*Recessed 3-206	150 W	R-40 150 W	Recess	8 9/16" dia.	Cast Alum.	—
F	Winden *Lithonia Day-Brite	*WA-440 WA Series		4 F-40	Surface	16" x 48"	White	—
G	Omega *Amplex	*CFH		R-40 150 W	Surface Canopy	7½" dia.	Satin Alum.	—

NOTES: Fixtures A E F & G under photocell control. Install two Intermatic 1500W photocells.

* - Catalog number & name with asterisk refer to manufacturer with asterisk. Other manufacturers indicated of equal type and quality may be used.

HIGHGATE
ROADSIDE REST FACILITIES
ELECTRICAL (GEC-48-006, E-1)
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROJECT LSI Nº	89-3(3)
SCALE: As Shown	SHEET 177 OF 400

E-1