

INDEX OF SHEETS

1	Title, Page & Item Quantity
2-3	Street Lighting System
4	E-34 On-Project Construction Signs 5/3/67 R
5	E-51 Concrete Bases and Pull Boxes 12/7/71 R
6	E-52 Poles, Bases, Brackets, and Luminaires 2/28/67

QUANTITY

ITEM 705
L Street Lighting System, Complete

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT

STATE AID PROJECT

TOWN OF FAIRLEE
COUNTY OF ORANGE

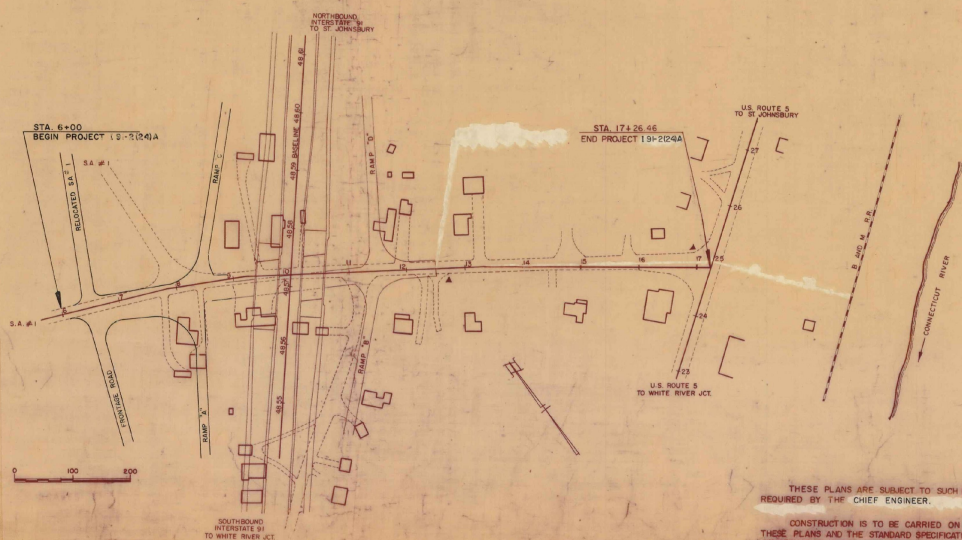
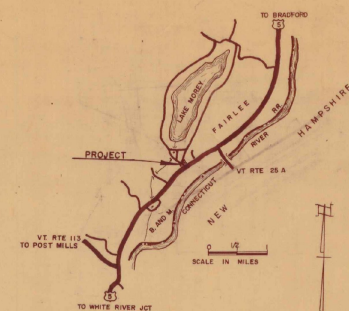
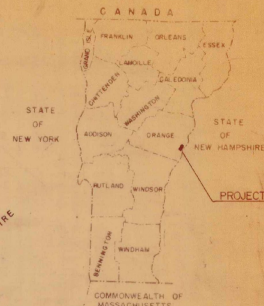
STATE AID # 1 THROUGH INTERSTATE I 91 CONNECTION

BEGINNING AT A POINT 0.213 MILE WESTERLY OF U.S. ROUTE 5
AND EXTENDING EASTERLY 0.213 MILE TO U.S. ROUTE 5

LENGTH OF ROADWAY 1126.46 FEET = 0.213 MILE

LENGTH OF PROJECT 1126.46 FEET = 0.213 MILE

FILE NO.	SECTION NO.	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
	V1		1	6



M

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

- FA CONSTRUCTION IDENTIFICATION SIGNS
- GROUND ELEVATION
 - GRADE ELEVATION
 - DATUM LINE
 - REF. LINE
 - CURVE DATA
 - DEFLECTION OF ANGLE
 - DEGREE OF CURVE
 - RADIUS OF CURVE
 - TANGENT DISTANCE
 - LENGTH OF CURVE
 - EXTERNAL DISTANCE
 - POINT OF INTERSECTION
 - POINT OF CURVE
 - POINT OF TANGENT
 - POINT ON TANGENT
 - POINT ON SUB-TANGENT

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE CHIEF ENGINEER.

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: *[Signature]*
DATE: April 24, 1977
SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD

FAIRLEE

DEPARTMENT OF TRANSPORTATION

APPROVED

DIVISION ENGINEER DATE

PROJECT 1 NO. 91-2 (24) A

SHEET 1 OF 6 SHEETS

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QUANTITY

ITEM 705
Street Lighting System, Complete

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT

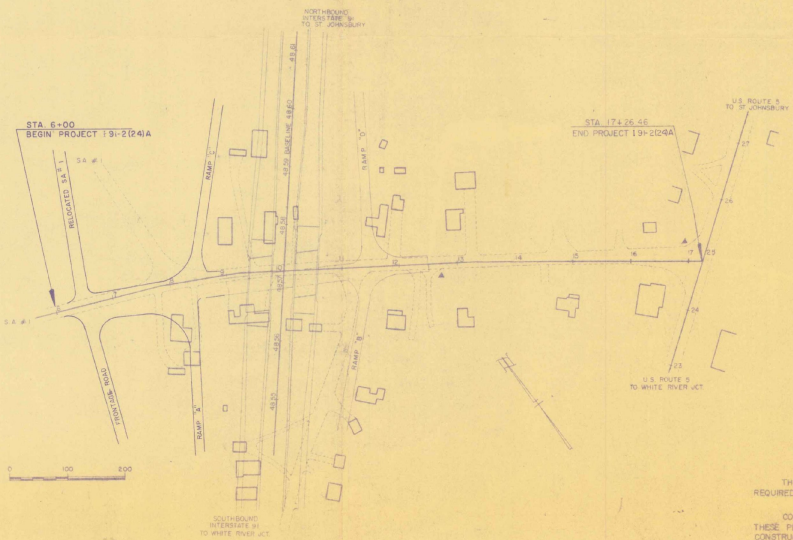
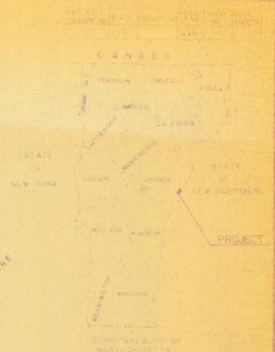
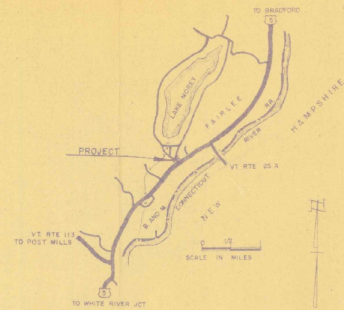
STATE AID PROJECT

TOWN OF FAIRLEE
COUNTY OF ORANGE
STATE AID # 1 THROUGH INTERSTATE I 91 CONNECTION

BEGINNING AT A POINT 0.213 MILE WESTERLY OF U.S. ROUTE 5
AND EXTENDING EASTERLY 0.213 MILE TO U.S. ROUTE 5

LENGTH OF ROADWAY 1126.46 FEET = 0.213 MILE

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CONVENTIONAL SIGNS

- COUNTY LINE
- TOWN LINE
- FENCE
- STONE
- UNFENCED PRIVATE
- GUARD RAIL
- TRAFFIC WAY
- RAILROAD
- DEPT. HIGHWAY
- CENTER LINE
- CURVE LINE
- CULVERT
- DRAINAGE
- POLE
- POLE HOLE
- TELEPHONE HOLE
- TREED
- TRUCK

F.A. CONSTRUCTION IDENTIFICATION SIGNS

- GROUND ELEVATION DATUM
- GRADE ELEVATION DATUM
- CURVE DATA
- DEFLECTION OF ANGLE
- DEGREE OF CURVE
- RADIUS OF CURVE
- TANGENT DISTANCE
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- POINT OF CURVE
- POINT OF TANGENT
- POINT ON TANGENT
- POINT ON SUB-TANGENT

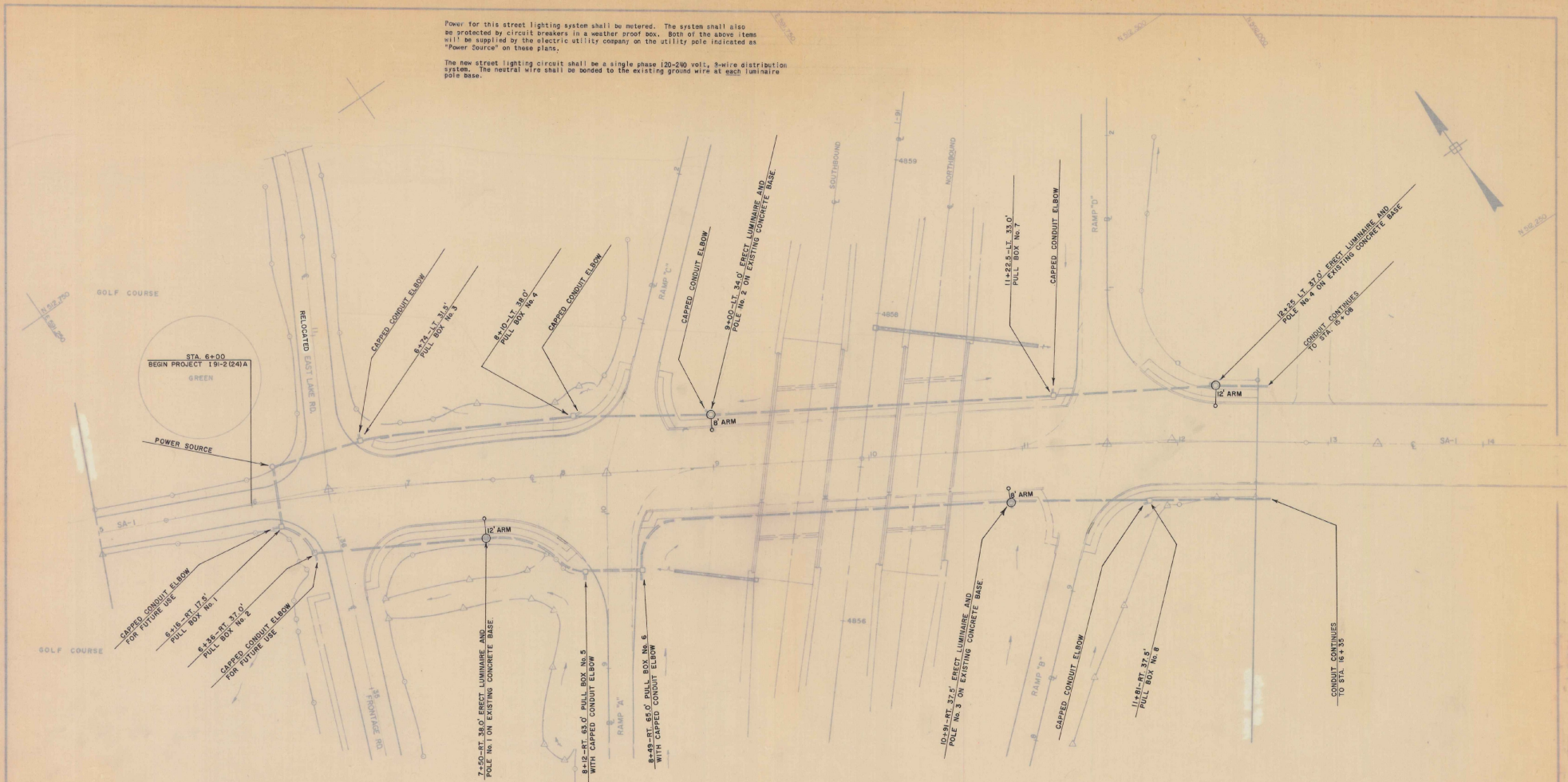
Date June 19/71
Frank T. Galy & Co.
 Contractor
John H. ...
 Commissioner of Highways

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE CHIEF ENGINEER
 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	DATE
PROJECT 1	NO. 91-2 (25) A
DATE	1971
SUBMITTED BY	OFFICE OF THE STATE ENGINEER

Power for this street lighting system shall be metered. The system shall also be protected by circuit breakers in a weather proof box. Both of the above items will be supplied by the electric utility company on the utility pole indicated as "Power Source" on these plans.

The new street lighting circuit shall be a single phase 120-240 volt, 3-wire distribution system. The neutral wire shall be bonded to the existing ground wire at each luminaire pole base.



NOTES:
 Lighting System shall be installed within existing system of conduit, concrete bases, and pullboxes in accordance with standard specifications for Street Lighting, Item 705, and the ASA-IES Standard Practice for Roadway Lighting (1963).

All poles and brackets shall be tapered aluminum as shown on standard sheet E-52. All light standards shall be mounted on cast aluminum bases, alloy 356-T6, of a breakout design.
 All luminaires on this project shall be mounted 30 feet above the pavement. Luminaires No. 2 and 3 shall be mounted on 8 foot bracket arms, all others shall have 12 foot bracket arms. All luminaires shall be 400 watt mercury vapor type III, medium spacing, cutoff street-lighting units with photoelectric control.

Wire connections in the base of each aluminum light pole shall be fused watertight Y plug-in connectors capable of being disconnected without damage. Each connector shall be a factory molded splice and fuse holder combination kit of a high quality building rubber. It shall be sized for water seal fit on the insulated wire being used in each base.

- LIST OF MAJOR COMPONENTS ON THIS SHEET**
- Aluminum light pole with frangible base and 12 foot bracket arm... 2 each
 - Aluminum light pole with frangible base and 8 foot bracket arm... 2 each
 - Mercury vapor luminaire, 400 watt, (with photoelectric control)... 4 each
 - Necessary wire, cable, and fittings to complete the lighting system, connect to a power source through circuit breakers and manual line switch in a weather light cabinet, and make operational.
- The contractor shall check the bolt circle diameter on the existing concrete bases and procure light poles with flange bases to match existing bolt circles.

**STREET LIGHTING
ITEM 705**

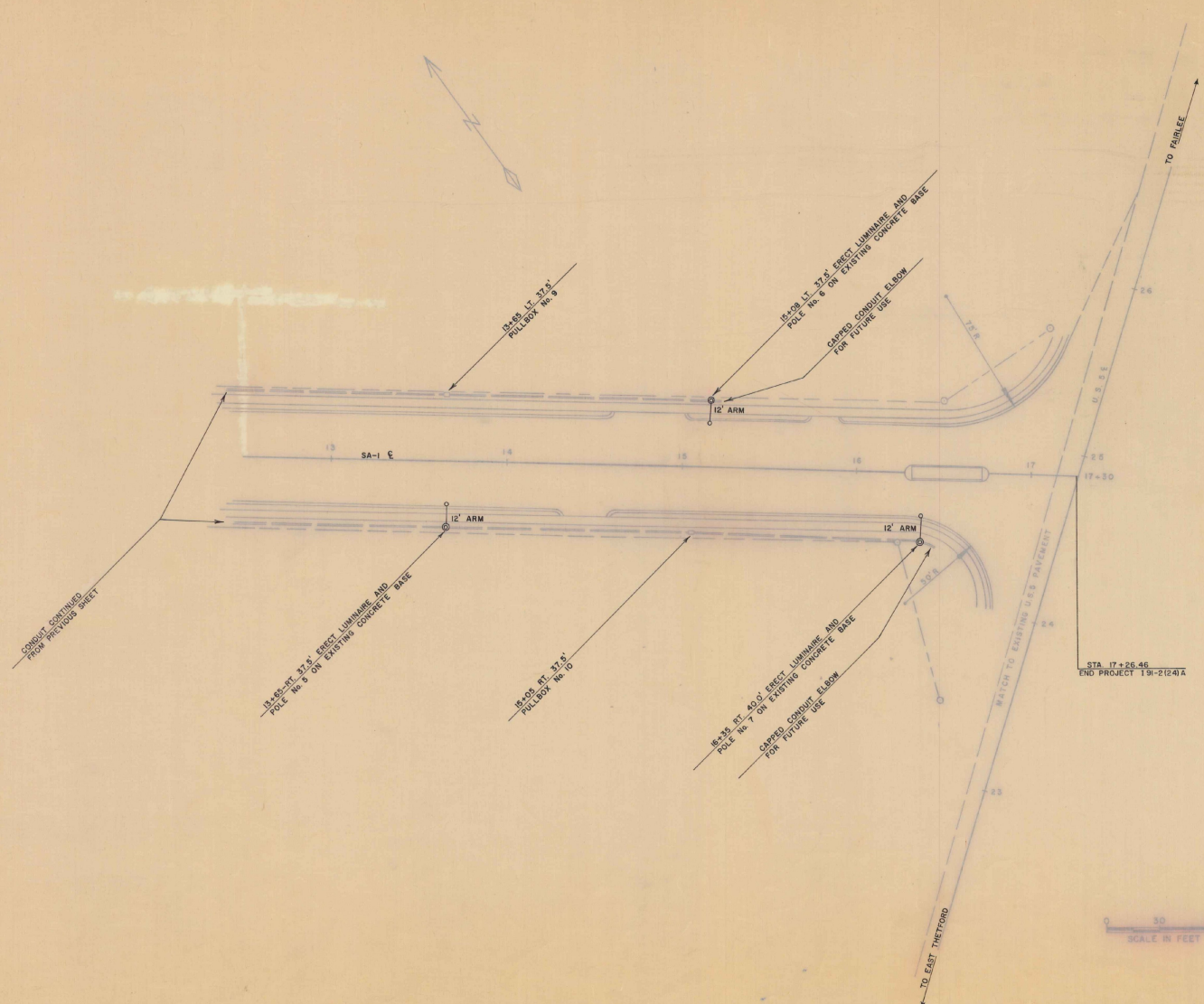
PIRIE 12-69

PLAN SCALE

0 50 100
FEET

**THETFORD - FAIRLEE
CONTRACT
STAGE II CONSTRUCTION**

BOWEN ENGINEERS CO. NORWELD, MASS., U.S.A.
 DESIGNED BY E. J. W. CHECKED BY R. D. DATE NOV. 1968
 PROJECT I 91-2 (24)A SHEET 2 OF 6



NOTES:

Lighting System shall be installed within existing system of conduit, concrete bases, and pullboxes in accordance with standard specifications for Street Lighting, Item 705, and the ASA-IES Standard Practice for Roadway Lighting (1963).

All poles and brackets shall be tapered aluminum as shown on standard sheet E-52. All light standards shall be mounted on cast aluminum bases, alloy 356-T6, of a breakaway design.

All luminaires on this project shall be mounted 30 feet above the pavement on 12 foot bracket arms. All luminaires are to be 400 watt mercury vapor type III, medium spacing, cutoff streetlighting units with photoelectric control.

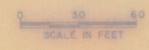
Wire connections in the base of each aluminum light pole shall be fused watertight Y plug-in connectors capable of being disconnected without damage. Each connector shall be a factory molded splice and fuse holder combination kit of a high quality insulating rubber. It shall be sized for water seal fit on the insulated wire being used in each base.

LIST OF MAJOR COMPONENTS ON THIS SHEET

Aluminum light pole with frangible base and 12 foot bracket arm . . . 3 each
 Mercury vapor luminaires, 400 watt, (with photoelectric control) . . . 3 each
 Necessary wire, cable, and fittings to complete the lighting system and connect with adjoining system.

The Contractor shall check the bolt circle diameter on the existing concrete bases and procure light poles with flange bases to match existing bolt circles.

4



FAIRLEE SA-1	
STREET LIGHTING	DESIGNED BY: GHM DATE: 5/59
ITEM 705	DRAWN BY: JWS DATE: 3/58
	TRACED BY: J.S.S. DATE: 3/58
STAGE II CONSTRUCTION	
PROJ. 1	NO. 91-2 (24) A
SHEET 3	OF 6

Vermont Agency of
Transportation
PHASE 1-INTERSTATE
#122302-01
INITIALS
HANGER 622

(M)

*

1971 ALL SHEET AS

FAIRLEE I-91-2(24)A

Lighting Project

(M)

1971