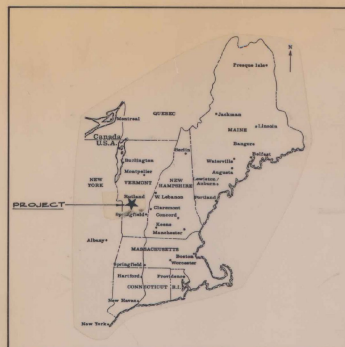


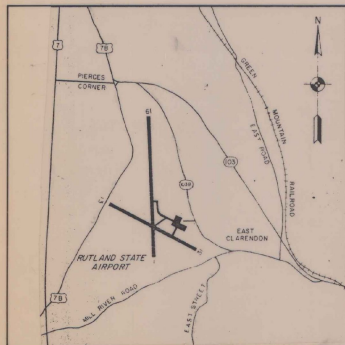
PLANS FOR

# AIRPORT IMPROVEMENTS

TO INCLUDE: (1) RECONSTRUCT/REHABILITATE, MARK, AND LIGHT RUNWAY 13-31 (75' X 3260')  
(2) INSTALL REILS AND PAPI ON RUNWAY 13



LOCATION MAP



VICINITY MAP

RUTLAND STATE AIRPORT  
CLARENDON, VERMONT

A.I.P. PROJECT NO. 3-50-0015-06

A.I.R. 03-2043

INDEX OF SHEETS

NO.	DESCRIPTION
1	TITLE SHEET
2	SITE PLAN
3	PLAN & PROFILE-STA. 8+50 TO STA. 22+00
4	PLAN & PROFILE -STA. 22+00 TO STA. 33+50
5,5A	PLAN & PROFILE-STA. 33+50 TO STA. 45+00
6	TYPICAL SECTIONS
7	LIGHTING PLAN
8	ELECTRICAL DETAILS
9	VAULT LAYOUT
10	DRAINAGE DETAILS
11	MARKING DIAGRAM
12	APPROACH AIDS
13	CROSS SECTIONS STA. -9+50 TO STA. 12+00
14	CROSS SECTIONS STA. -12+50 TO STA. 15+00
15	CROSS SECTIONS STA. -15+50 TO STA. 18+50
16	CROSS SECTIONS STA. -19+00 TO STA. 22+00
17	CROSS SECTIONS STA. -22+50 TO STA. 25+00
18	CROSS SECTION STA. -25+50 TO STA. 28+50
19	CROSS SECTIONS STA. -29+00 TO STA. 31+50
20	CROSS SECTIONS STA. -32+00 TO STA. 34+50
21	CROSS SECTION STA. -35+00 TO STA. 37+50
22	CROSS SECTIONS STA. -38+00 TO STA. 40+50
23	CROSS SECTIONS STA. -41+00 TO STA. 43+00
24	CROSS SECTIONS STA. -43+50 TO STA. 45+00
25-28	CROSS SECTIONS - STA. 45+50 TO STA. 50+00
29	PROFILE
30	EARTHWORK SHEET
D-6	VT STANDARDS REINFORCED CONCRETE DROP INLET WITH GRATE (4/73 R)
D-II	VT STANDARDS CAST IRON GRATE AND COVER (8-81 R)

VERMONT AGENCY OF TRANSPORTATION  
APPROVED: *Frank J. Smith* 8/22/1985  
DIRECTOR OF ENGINEERING AND CONSTRUCTION  
DATE: \_\_\_\_\_

FEDERAL AVIATION ADMINISTRATION  
APPROVED: \_\_\_\_\_  
CHIEF, AIRPORT ENGINEERING AND SAFETY BRANCH  
DATE: \_\_\_\_\_

ITEM NO.	DESCRIPTION	QUANTITY	ITEM NO.	DESCRIPTION	QUANTITY
201.10	Clearing and Grubbing	Lump Sum	864.01	Cold Mixed Recycled Base Course	6820 c.y.
203.28	Excavation of Surfaces and Pavements	3,100 c.y.	864.02	Heterogeneous Concrete Pavement (P-401)	4,400 tons
203.17	Unclassified Excavation	11,162 c.y.	864.03	Runway and Taxiway	11,010 s.f.
203.30	Earth Borrow	3,515 c.y.	864.04	Cable Trench (L-108)	1,460 l.f.
203.32	Granular Borrow	11,120 c.y.	864.05	1/2 #6 L-228 '6' SEV (L-108)	17,500 l.f.
203.40	Fine Grading Subgrade	19,080 s.y.	864.06	#8 Bare Counterpoise (L-108)	8,600 l.f.
204.20	Trench Excavation, Earth	3,360 c.y.	864.07	Installation of Airport Transformer Vault Equipment (L-109)	Lump Sum
204.21	Trench Excavation, Rock	332 c.y.	864.08	2' x 4' dia., Duct (L-110)	497 l.f.
404.55	Cutback Asphalt	91 cwt.	864.09	4' x 4' dia., Duct (L-110)	81 l.f.
501.25	Concrete, Class B	2.1 c.y.	864.10	Medium Intensity Runway Lights, Base Mounted (L-125)	45 each
507.15	Reinforcing steel	193 lbs.	864.11	Medium Intensity Taxiway Lights, Base Mounted (L-125)	8 each
601.0026	24" dia. CSP (0.79')	160 l.f.	864.12	Precision Approach Path Indicator, (PAPI) Style A Class 2 (L-881)	1 each
601.0225	24" CASP .060	380 l.f.	864.13	Runway End Identifier Lights, REILS (L-125)	1 each
601.0425	24" PCCSP .064	380 l.f.	864.14	Taxiway Guidance Sign, 5 Panel, Size 1, Style 2, Class 2 (L-125)	2 each
601.0825	24" RCP C1. III	380 l.f.			
604.40	Changing Elevations of Drop Inlets	20 each			
604.45	Cast Iron Grate w/frame Type A	1 each			
605.10	6" dia. Underdrain	2,250 l.f.			
605.20	6" dia. Carrier Pipe	200 l.f.			
605.95	Underdrain Flushing Basins	10 each			
608.25	R11 Purpose Excavator Rental T.L.	24 hours			
613.10	Stone Fill I	5 c.y.			
613.11	Stone Fill II, Type II	115 c.y.			
631.10	Engineer's Field Office Mobilization	Lump Sum			
635.10	Seed	565 lbs.			
651.15	Fertilizer	4715 lb.			
651.20	Agricultural Limestone	19 tons			
651.25	Hay Mulch	19 tons			
651.35	Topsoil	2205 c.y.			

QUANTITIES

JULY-1985

REVISED BY VAOT  
MAY 1987

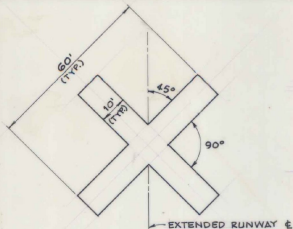
AS BUILT PLANS  
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.  
By: *[Signature]* Resident Engineer  
Date: 8-22-80



Consulting Engineers

Dufresne-Henry, Inc. certifies that the plans and specifications for the project were prepared in accordance with criteria contained in the current edition of F.A.A. Advisory Circulars.

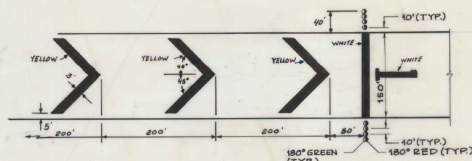
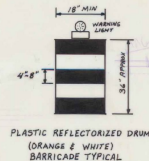
*Walter B. Lovett, Jr.*  
Walter B. Lovett, Jr., P.E. Director of Aviation Services



**Closed Runway Marker**  
N.T.S.

**MARKER NOTES**

1. CLOSED RUNWAY MARKER TO BE IN PLACE DURING CONSTRUCTION PERIOD AS DIRECTED BY ENGINEER.
2. CLOSED RUNWAY MARKER MAY BE EITHER, SNOW FENCE OR PLYWOOD PAINTED YELLOW & SECURELY FASTENED IN PLACE.
3. COST OF PLACING & MAINTAINING THE CLOSED RUNWAY MARKERS IS CONSIDERED NECESSARY & INCIDENTAL TO CONSTRUCTION & IS NOT A SEPARATE PAY ITEM.
4. CLOSED RUNWAY MARKER TO BE PLACED OVER EXISTING RUNWAY 1 IMMEDIATELY DURING RUNWAY 1 RELOCATION.

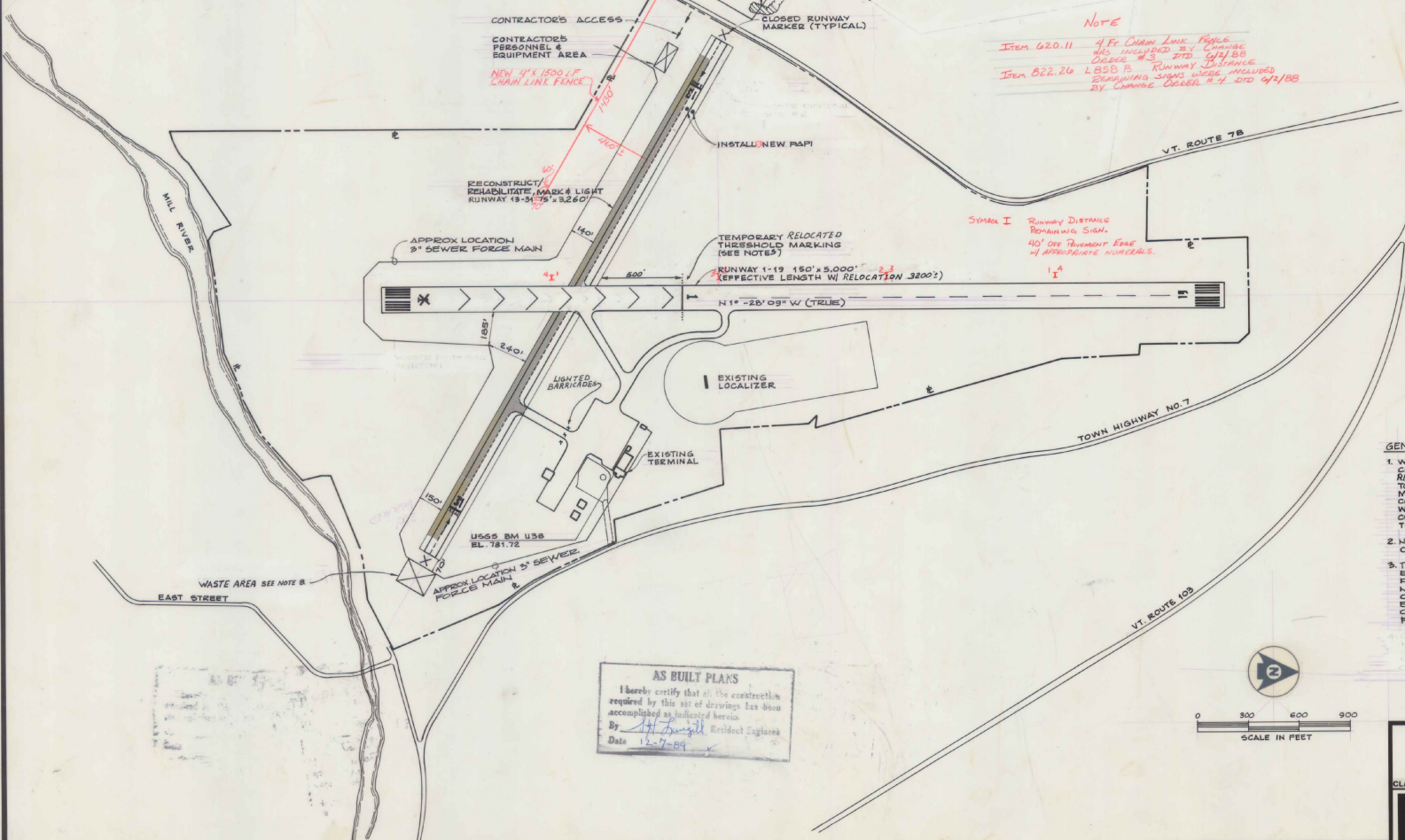


**TEMPORARY RELOCATED THRESHOLD DETAIL**  
N.T.S.

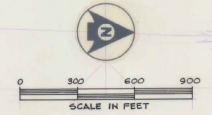
- NOTES:**
1. EIGHT TEMPORARY THRESHOLD LIGHTS ARE TO BE INSTALLED AS SHOWN.
  2. EACH LIGHT TO BE BATTERY OPERATED STEADY BURNING W/ 180° RED/180° GREEN LENS AS MANUF. BY WIELAN ENGINEERING (DEEP RIVER, CT.) OR EQUAL.
  3. THE CONTRACTOR SHALL FURNISH ALL BATTERIES TO BE USED DURING THE CONSTRUCTION PERIOD.
  4. THE CARE & MAINTENANCE OF THE TEMPORARY LIGHTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  5. THE MAINTENANCE DIVISION OF THE VAST SHALL RETAIN POSSESSION OF THE LIGHTS AFTER COMPLETION OF CONSTRUCTION.
  6. THE COST OF THE TEMPORARY LIGHTS & BATTERIES IS NOT INCLUDED AS A SEPARATE PAY ITEM. THIS WORK IS NECESSARY & INCIDENTAL TO THE COST OF THE PROJECT.
  7. CONTRACTOR MAY AT HIS OPTION, INSTALL 8 MEDIUM INTENSITY THRESHOLD LIGHTS, COMPOSING TO PAAS SPEC L-861E IN LIEU OF BATTERY OPERATED LIGHTS.
  8. WASTE AREA TO BE GRADED, TOPSOILED, SEEDED & MULCHED AS ORDERED BY THE ENGINEER. THE USE OF THIS WASTE AREA WILL REQUIRE THAT A 24\"/>
  - 9. ALL MARKINGS IN THE RELOCATED THRESHOLD AREA ARE YELLOW EXCEPT THE THRESHOLD BAR WHICH IS WHITE.

**NOTE**  
Item 620.11 4 Ft. Chain Link Fence was included by Change Order # 174/89  
Item 822.26 2 B&B Runway Distance Remaining Signs were included by Change Order # 174/89

**SMALL I** Runway Distance Remaining Sign  
40' OR REMOVED ERE w/ APPROPRIATE NUMERALS



**AS BUILT PLANS**  
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.  
By: *[Signature]* Resident Engineer  
Date: 12-7-89



- GENERAL NOTES:**
1. WHEN WORKING WITHIN 200' OF RUNWAY 1-19 CENTERLINE, THE RUNWAY 1 THRESHOLD MUST BE RELOCATED. CONTRACTOR WILL ONLY BE ALLOWED TO DISPLACE THRESHOLD FOR 7 DAYS (MAXIMUM) TO MINIMIZE THE IMPACT TO SCHEDULED SERVICE. THE CONTRACTOR WILL COORDINATE THIS RELOCATION WITH THE AIRPORT MANAGER AND INSTRUCTORS. THE CONTRACTOR MAY RELOCATE THE THRESHOLD ONE TIME DURING THIS CONTRACT.
  2. NO EQUIPMENT SHALL BE PARKED WITHIN 250' OF R/W 1-19 DURING NON-WORKING HOURS.
  3. THE CONTRACTOR WILL NOT BE ALLOWED TO MOVE EQUIPMENT ACROSS RUNWAY 1-19 WITHOUT THE PERMISSION OF THE ENGINEER. IN ORDER TO MOVE EQUIPMENT ACROSS THIS RUNWAY THE CONTRACTOR WILL HAVE TO PROVIDE FLAGMAN EQUIPPED WITH A RADIO CAPABLE OF COMMUNICATING WITH AIRCRAFT ON UNICOM FREQUENCY OF 122.8 MHz.

AIR 03-2043  
A.I.P. PROJECT NO. 3-50-0015-06

**RUTLAND STATE AIRPORT**  
**SITE PLAN**

CLARENDON, VERMONT

**DH**  
Dufresne-Henry Inc.

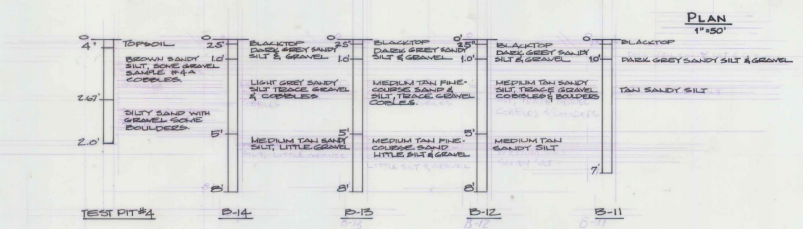
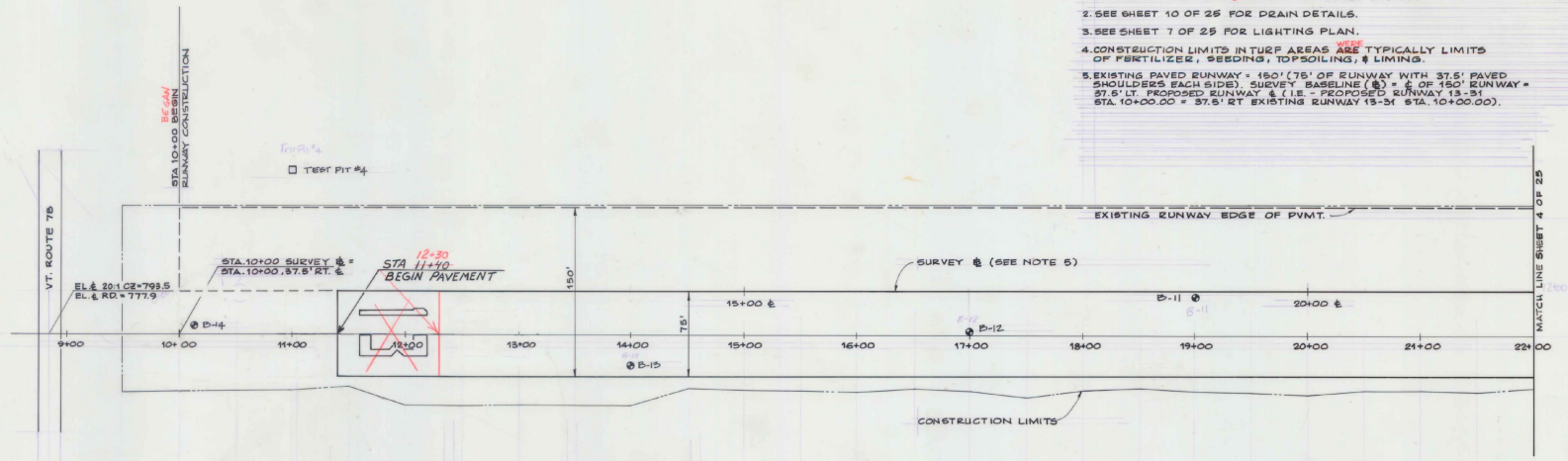
Client No. 20-0182  
Proj. Manager G.W. D'AMICO  
Proj. Designer E.S. DAWES  
Drawn By G.W. MILLS  
Checked By G.W. D'AMICO  
Scale AS SHOWN  
Approved \_\_\_\_\_  
Date \_\_\_\_\_

Sheet 2 of 30

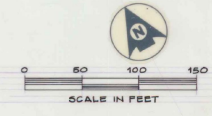
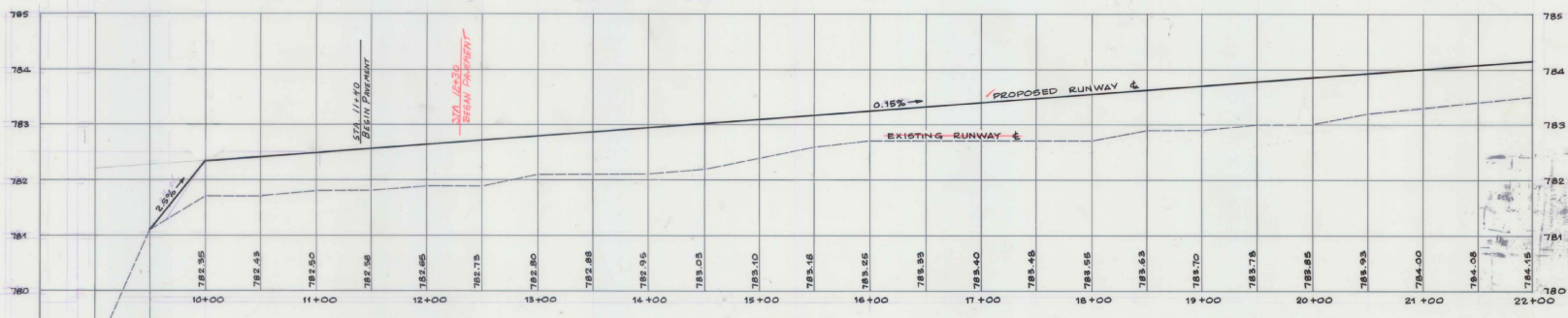
Rev.	Description	By	Date

**PLAN & PROFILE NOTES:**

1. ALL ELEVATIONS REFERRED TO MEAN SEA LEVEL DATUM.
2. SEE SHEET 10 OF 25 FOR DRAIN DETAILS.
3. SEE SHEET 7 OF 25 FOR LIGHTING PLAN.
4. CONSTRUCTION LIMITS IN TURF AREAS ARE TYPICALLY LIMITS OF FERTILIZER, SEEDING, TOPSOILING, & LIMING.
5. EXISTING PAVED RUNWAY = 150' (75' OF RUNWAY WITH 37.5' PAVED SHOULDERS EACH SIDE). SURVEY BASELINE (S) = C OF 150' RUNWAY = 37.5' DT. PROPOSED RUNWAY, & (L) = PROPOSED RUNWAY 13-31 STA. 10+00.00 + 37.5' RT. EXISTING RUNWAY 13-31 STA. 10+00.00.



**AS BUILT PLANS**  
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.  
By [Signature] Resident Engineer  
Date 8-22-70



A.I.P. PROJECT NO. 3-50-0015-06  
RUTLAND STATE AIRPORT  
PLAN & PROFILE - STA. 8+50 TO STA. 22+00

CLARENDON, VERMONT

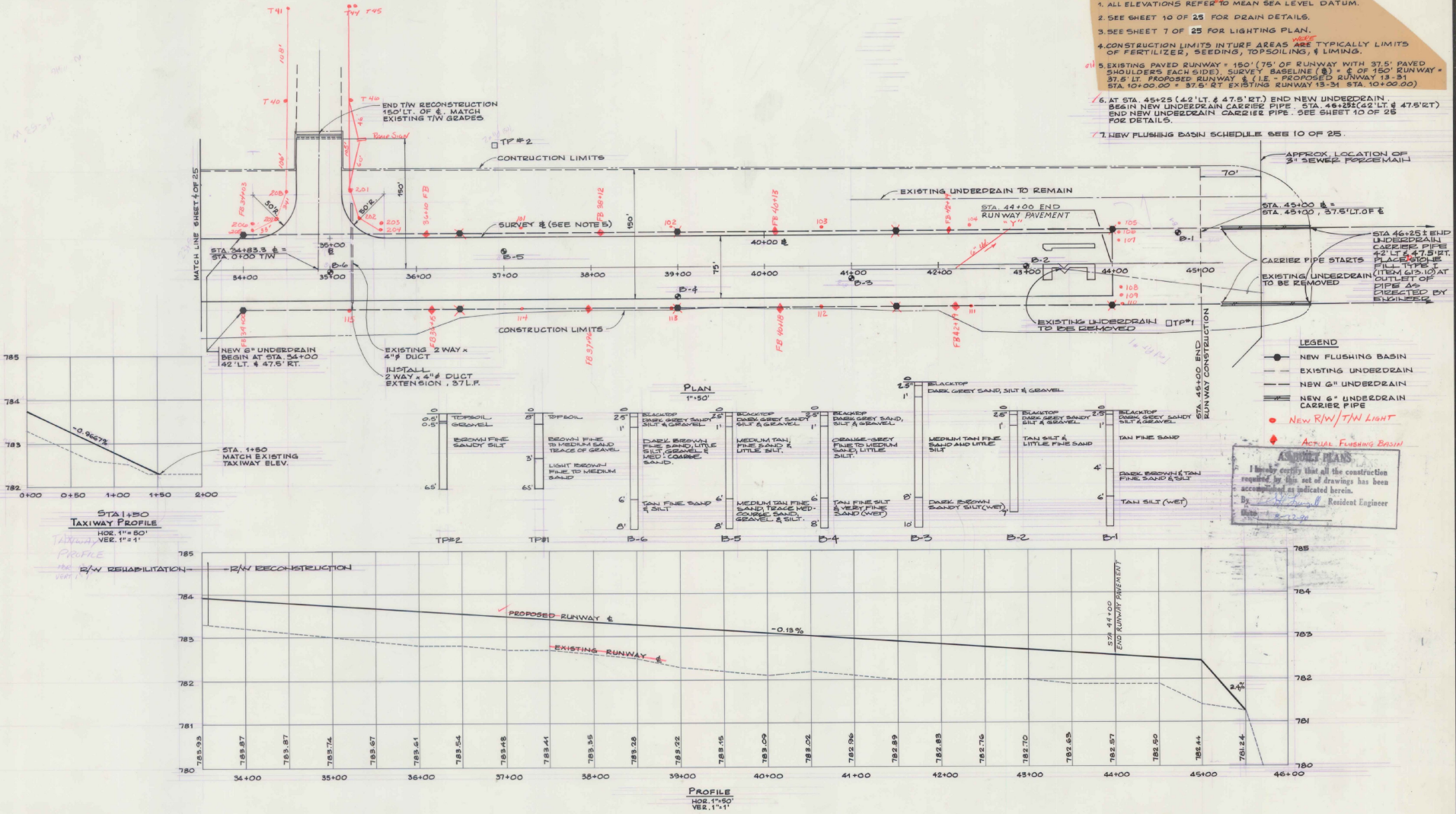
**DH**  
Dufresne-Henry Inc.

Client No. 30-0102	Proj. Manager G.W. D'AMICO
Proj. Designer E.S. DAWES	Drawn By C.W. MILLS
Checked By G.W. D'AMICO	Scale AS SHOWN
Approved	Date

Sheet 3 of 30



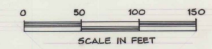
- PLAN & PROFILE NOTES:**
1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL DATUM.
  2. SEE SHEET 10 OF 25 FOR DRAIN DETAILS.
  3. SEE SHEET 7 OF 25 FOR LIGHTING PLAN.
  4. CONSTRUCTION LIMITS IN TURF AREAS ARE TYPICALLY LIMITS OF FERTILIZER, SEEDING, TOPSOILING, & LIMING.
  5. EXISTING PAVED RUNWAY = 150' (75' OF RUNWAY WITH 37.5' PAVED SHOULDERS EACH SIDE), SURVEY BASELINE (B) + 6' OF 150' RUNWAY = 37.5' LT. PROPOSED RUNWAY & 116' PROPOSED RUNWAY 13-31 STA. 10+00.00 + 37.5' RT. EXISTING RUNWAY 13-31 STA. 10+00.00
  6. AT STA. 45+25 (42' LT. & 47.5' RT.) END NEW UNDERDRAIN. BEGIN NEW UNDERDRAIN CARRIER PIPE. STA. 46+25 (42' LT. & 47.5' RT.) END NEW UNDERDRAIN CARRIER PIPE. SEE SHEET 10 OF 25 FOR DETAILS.
  7. NEW FLUSHING BASIN SCHEDULE SEE 10 OF 25.



**ASBESTOS PLAN**

I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.

By: *[Signature]* Resident Engineer



A.I.P. PROJECT NO. 3-30-0015-06  
 RUTLAND STATE AIRPORT  
 PLAN & PROFILE - STA. 33+50 TO STA. 45+00

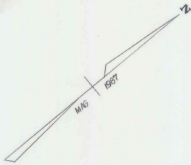
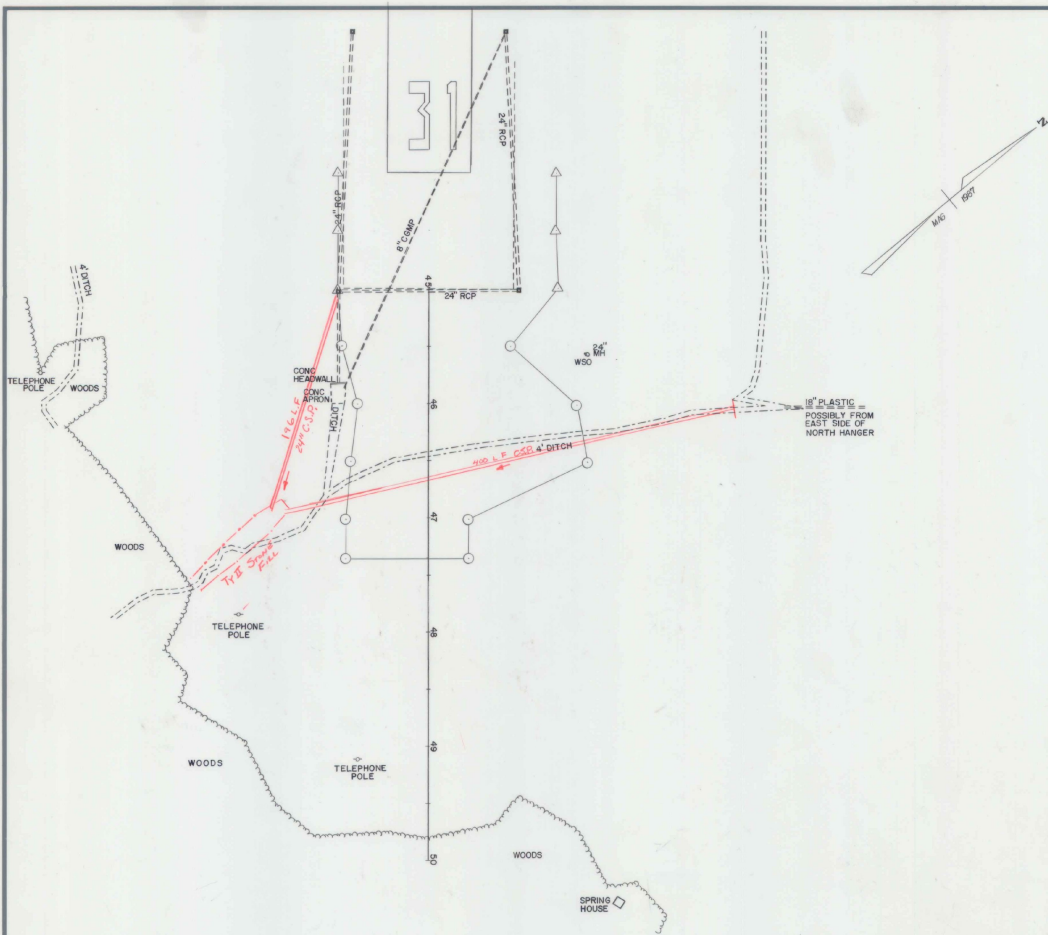
CLARENDON, VERMONT

**DH** Dufresne-Henry Inc.

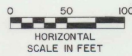
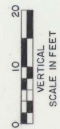
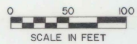
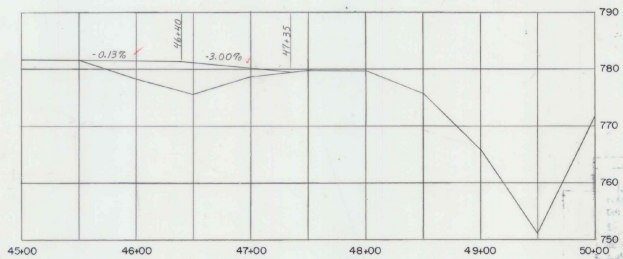
Client No. 30-0162  
 Prof. Manager G.W. D'AMICO  
 Proj. Designer E.S. DAWES  
 Drawn By C.W. MILLS  
 Checked By G.W. D'AMICO  
 Scale AS SHOWN  
 Approved [Signature] Inc.  
 Date [ ]

Sheet 5 of 30

DRAWING NO. 15-0007



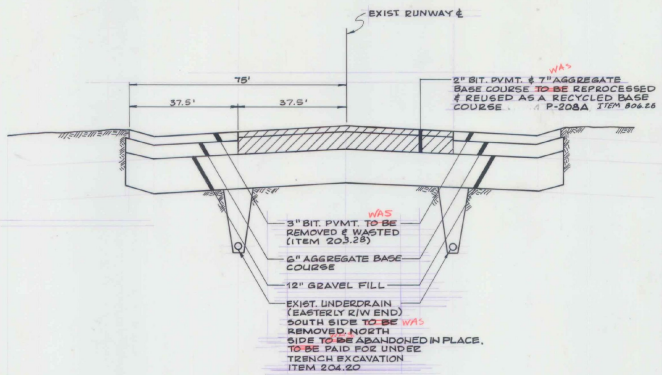
**AS BUILT PLANS**  
 I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.  
 By [Signature] Resident Engineer  
 Date 8-22-90



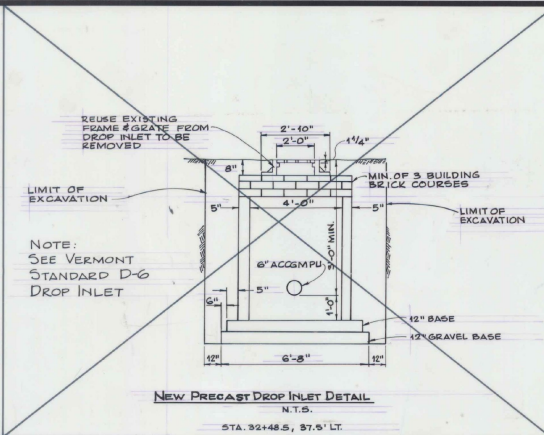
DATUM \_\_\_\_\_  
 VERTICAL \_\_\_\_\_  
 HORIZONTAL \_\_\_\_\_

SURVEYED BY REED DATE 5-87  
 DRAWN BY DAYE DATE 6-87  
 TRACED BY MURDOCK DATE 5-87

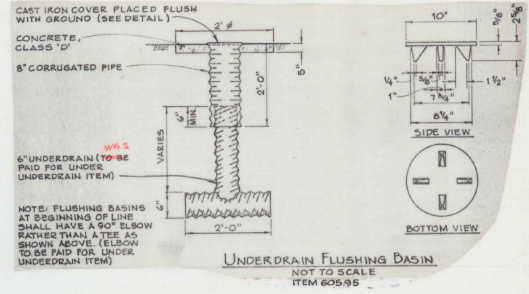
PROJ. AIR NO. 03-2043  
 SHEET 5A OF 30



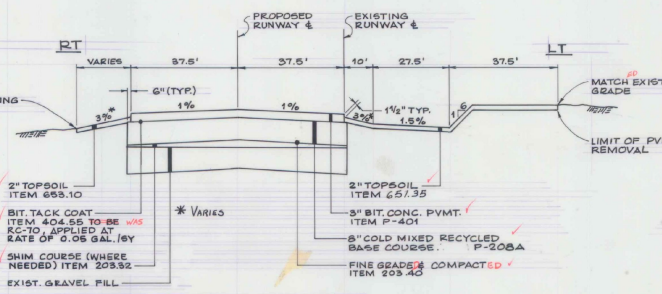
EXISTING TYPICAL SECTION  
N.T.S.



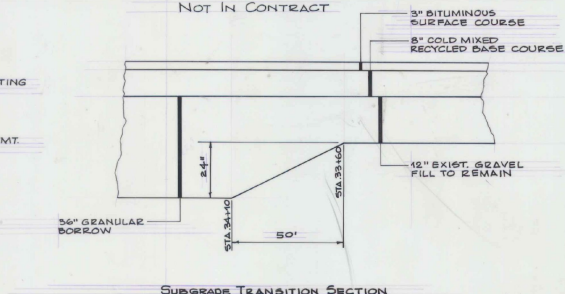
NEW PRECAST DROP INLET DETAIL  
N.T.S.  
STA. 32+48.5, 37.5' LT.  
NOT IN CONTRACT



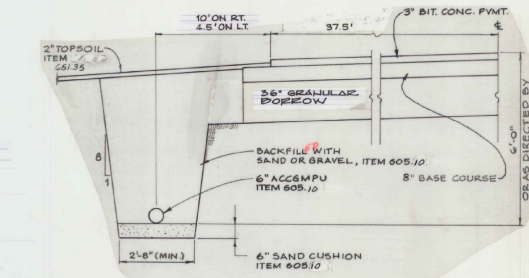
UNDERDRAIN FLUSHING BASIN  
NOT TO SCALE  
ITEM 605.95



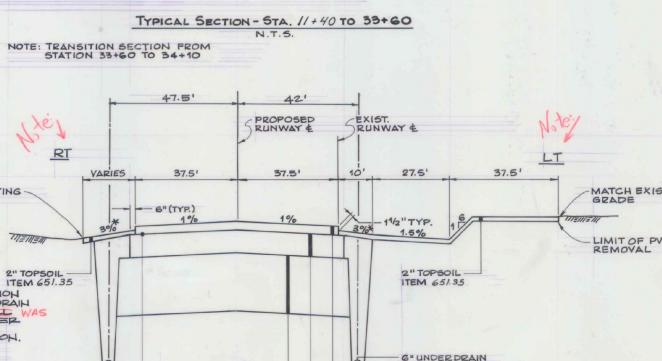
TYPICAL SECTION - STA. 11+40 TO 33+60  
N.T.S.



SUBGRADE TRANSITION SECTION  
N.T.S.



UNDERDRAIN DETAIL  
NOT TO SCALE



TYPICAL CROSS SECTION - STA. 34+10 TO 44+00  
N.T.S.

**GENERAL NOTES**

Seed, Item 551.18 to be applied as directed by Engineer.

1 BT	LIB/A	Name	Pur & Com
3.33	2	Oregon Vetch	97 75
50.00	30	Creeching Red Peascoe	98 85
6.33	5	Timothy	99 85
16.07	10	Parr-Rye Grass (Var. Pennine)	99 85
6.34	9	Alfalfa (Var. Saranac)	99 85
8.33	5	Redfoot Trefoil (Var. Empire)	98 85
5.00	3	Highland Best Grass	92 85
100.00	60		

The seed mixture shall not have a weed content exceeding 0.10% by weight and shall be free of all noxious weed seed.

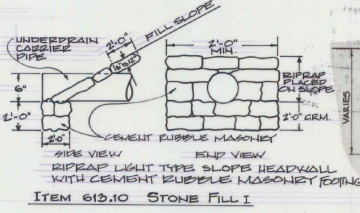
Fertilizer, Item 551.14  
Formula 10-20-10 to be used with seed, Item 551.15, applied at the rate of 500 lbs/acre.

Agriculture Limestone, Item 551.20  
To be applied at rate of 2 tons/acre or as directed by Engineer.

Hay mulch, Item 551.25  
To be placed on earth slopes at the rate of 2 tons/acre.

Topsoil, Item 605.95  
To be used with seed, item 551.10, as directed by the Engineer.

- Allowable thickness tolerances
- |                     |      |
|---------------------|------|
| Subbase             | ± 1" |
| Controlled Material | ± 1" |
| Favement            | ± 1" |
| Base Course         | ± 1" |
- Sub-grade under areas to be paved to be compacted to 100% density as per FAA T-611 (ASHTO T-99).
  - Bituminous tack coat to be applied as per Item 404, Subsection 404.05, Type I First Application using RC-250.
  - Top of base under runway pavement to be fine graded and compacted to 100% density as per FAA T-611 (ASHTO 99).



UNDERDRAIN CARRIER PIPE  
NOT TO SCALE

**AS BUILT PLANS**

I hereby certify that the construction required by the set of drawings has been accomplished as indicated above.

By: *[Signature]* Field at Engineer  
Date: 8-22-50

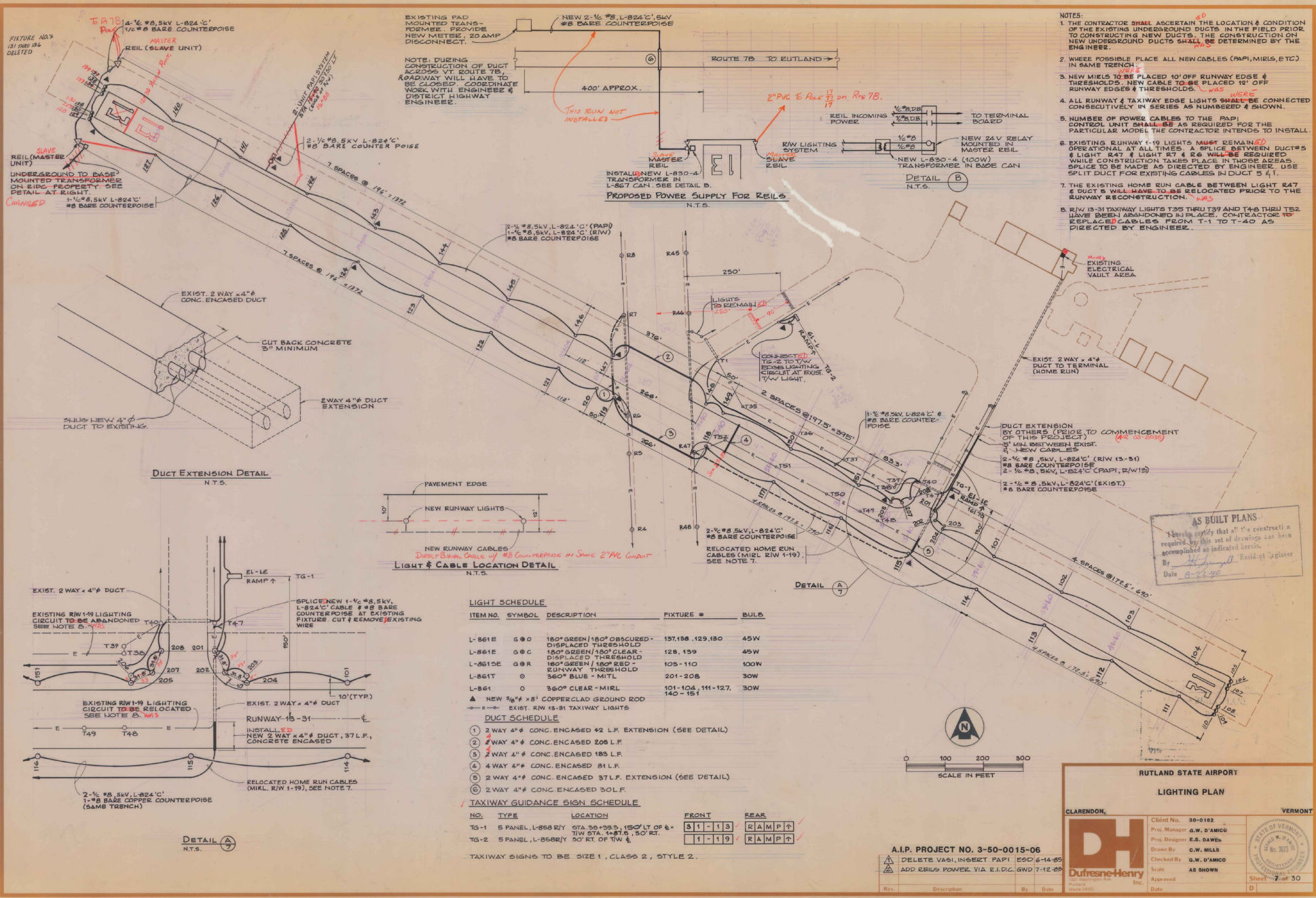
A.P. PROJECT NO. 3-50-0015-06

RUTLAND STATE AIRPORT

TYPICAL SECTIONS

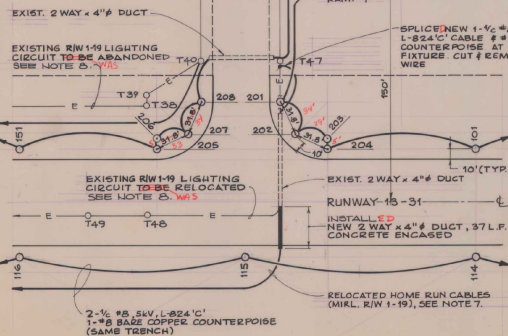
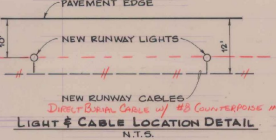
<p>Dufresne-Henry Inc. 101 Washington Ave. Portland, Maine 04101</p>	Client No. 30-0162	<p>STATE OF VERMONT PLANNING BOARD NOV 30 1973 OFFICIAL RECORDS</p>
	Proj. Manager G.W. D'AMICO	
	Proj. Designer E.S. DAWES	
	Drawn By C.W. MILLS	
	Checked By G.W. D'AMICO	
Scale AS SHOWN	Sheet 6 of 30	
Approved _____	Date _____	D

Rev.	Description	By	Date



- NOTES:
1. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION & CONDITION OF THE EXISTING UNDERGROUND DUCTS IN THE FIELD PRIOR TO CONSTRUCTING NEW DUCTS. THE CONSTRUCTION ON NEW UNDERGROUND DUCTS SHALL BE DETERMINED BY THE ENGINEER.
  2. WHERE POSSIBLE PLACE ALL NEW CABLES (PAPI, MIELS, ETC) IN SAME TRENCH.
  3. NEW MIELS TO BE PLACED 10' OFF RUNWAY EDGE & THRESHOLDS. NEW CABLE TO BE PLACED 12' OFF RUNWAY EDGES & THRESHOLDS.
  4. ALL RUNWAY & TAXIWAY EDGE LIGHTS SHALL BE CONNECTED CONSECUTIVELY IN SERIES AS NUMBERED & SHOWN.
  5. NUMBER OF POWER CABLES TO THE PAPI CONTROL UNIT SHALL BE AS REQUIRED FOR THE PARTICULAR MODEL THE CONTRACTOR INTENDS TO INSTALL.
  6. EXISTING RUNWAY 1-19 LIGHTS MUST REMAIN OPERATIONAL AT ALL TIMES. A SPLICE BETWEEN DUCTS & LIGHT 247 & LIGHT 27 & 28 WILL BE REQUIRED WHILE CONSTRUCTION TAKES PLACE IN THOSE AREAS. SPLICE TO BE MADE AS DIRECTED BY ENGINEER. USE SPLIT DUCT FOR EXISTING CABLES IN DUCT 5 & 1.
  7. THE EXISTING HOME RUN CABLE BETWEEN LIGHT 247 & DUCT 5 WILL HAVE TO BE RELOCATED PRIOR TO THE RUNWAY RECONSTRUCTION.
  8. RW 13-31 TAXIWAY LIGHTS T35 THRU T39 AND T48 THRU T52 HAVE BEEN ABANDONED IN PLACE. CONTRACTOR TO REPLACE CABLES FROM T-1 TO T-40 AS DIRECTED BY ENGINEER.

DUCT EXTENSION DETAIL  
N.T.S.



LIGHT SCHEDULE

ITEM NO.	SYMBOL	DESCRIPTION	FIXTURE #	BULB
L-861E	G 00	180° GREEN 180° OBSCURED - DISPLACED THRESHOLD	137-138, 129-130	45W
L-861C	G 0C	180° GREEN 180° CLEAR - DISPLACED THRESHOLD	128, 159	45W
L-861SE	G 0R	180° GREEN 180° RED - RUNWAY THRESHOLD	105-110	100W
L-861T	0	360° BLUE - MITL	201-208	30W
L-861	0	360° CLEAR - MIEL	101-104, 111-127, 140-151	30W

▲ NEW 5/8" x 31" COPPERCLAD GROUND ROD  
 → EXIST. RW 13-31 TAXIWAY LIGHTS

DUCT SCHEDULE

1. 2 WAY 4" CONG. ENCASED 42 L.F. EXTENSION (SEE DETAIL)
2. 2 WAY 4" CONG. ENCASED 208 L.F.
3. 2 WAY 4" CONG. ENCASED 185 L.F.
4. 4 WAY 4" CONG. ENCASED 81 L.F.
5. 2 WAY 4" CONG. ENCASED 37 L.F. EXTENSION (SEE DETAIL)
6. 2 WAY 4" CONG. ENCASED 30 L.F.

TAXIWAY GUIDANCE SIGN SCHEDULE

NO.	TYPE	LOCATION	FRONT	REAR
TG-1	5 PANEL, L-868 R/Y	STA 25+50.5, 150' LT OF E-TW STA. 4+87.5, 50' RT.	81-113	RAMP ↑
TG-2	5 PANEL, L-868 R/Y	50' RT. OF TW	1-119	RAMP ↑

TAXIWAY SIGNS TO BE SIZE 1, CLASS 2, STYLE 2.

AS BUILT PLANS  
 I hereby certify that all the construction required by this set of drawings has been accomplished as indicated hereon.  
 By: [Signature]  
 Date: 8-22-90



RUTLAND STATE AIRPORT  
 LIGHTING PLAN

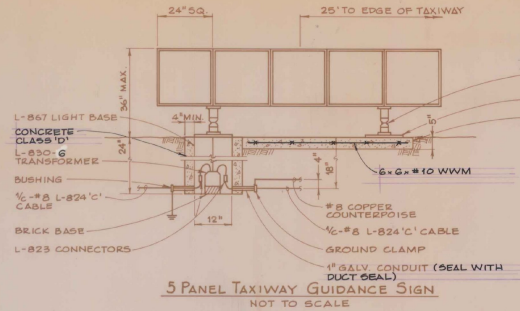
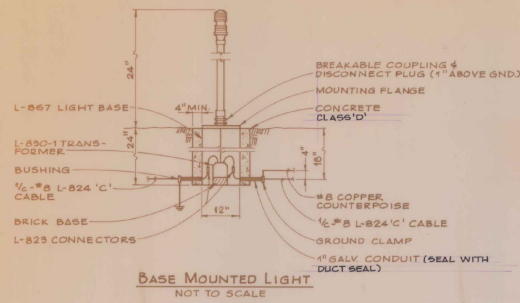
CLARENDON, VERMONT

Client No. 30-0162  
 Proj. Manager G.W. D'AMICO  
 Proj. Designer E.S. BARNES  
 Drawn By G.W. HILLS  
 Checked By G.W. D'AMICO  
 Scale AS SHOWN  
 Date

Dufresne-Henry Inc.

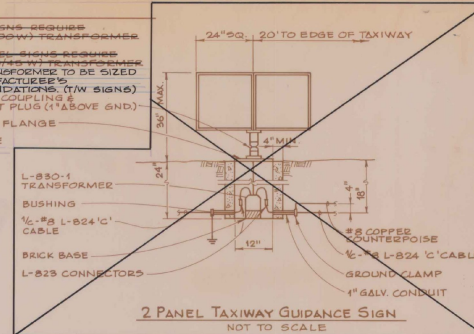
A.I.P. PROJECT NO. 3-50-0015-06  
 DELETE VASI, INSECT PAPI 190' 6-14-89  
 ADD REEL'S POWER VIA E.I.D.C. SWD 7-12-89

Sheet 2 of 30



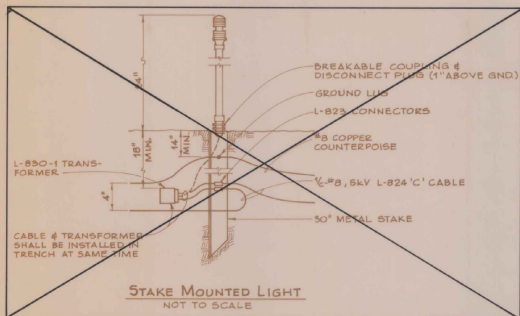
NOTE:

2-PANEL SIGN REQUIRES  
L-830-6 (200W) TRANSFORMER  
L-830-1 TRANSFORMER TO BE SIZED  
PER MANUFACTURER'S  
RECOMMENDATIONS (T/W SIGNS)  
BREAKABLE COUPLINGS &  
DISCONNECT PLUG (1" ABOVE GND)  
MOUNTING FLANGE  
CONCRETE CLASS 'D'

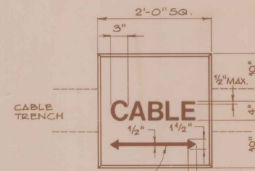
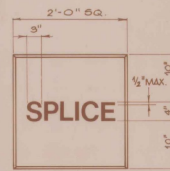
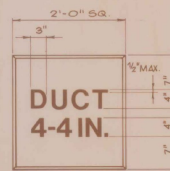


NOT IN CONTRACT

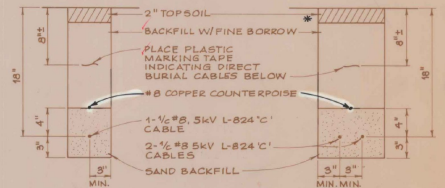
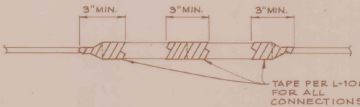
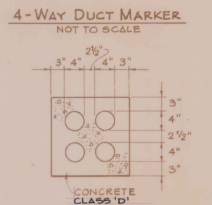
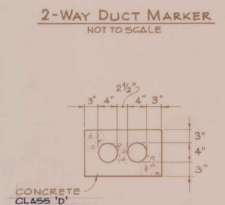
NOTE:  
PROVIDE A 3/4" LOOP OF CABLE AT ALL  
TRANSFORMER LOCATIONS.



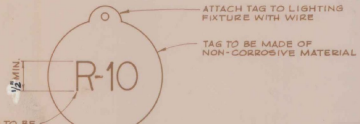
NOT IN CONTRACT



MARKER NOTES:  
1. HAND LETTERING NOT  
ALLOWED ON MARKERS.  
LETTERING IS TO BE  
IMPRESSED.  
2. ARROW ON CABLE  
MARKER TO INDICATE  
DIRECTION OF CABLES.  
3. PAYMENT FOR CABLE  
SPICE DUCT MARKERS  
TO BE SUBSIDIARY  
TO OTHER PAY ITEMS.



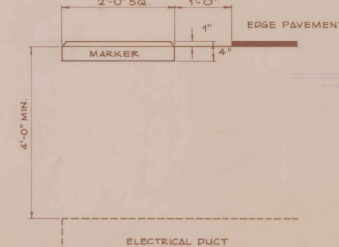
ALL IN 2" DIVE PRODUCT  
FINE BORROW = MATERIAL REASONABLY FREE  
FROM LOAM, CLAY OR ORGANIC MATERIAL,  
MAXIMUM SIZE 3/4"



LETTER # NUMBER TO BE  
PERMANENT PART OF TAG  
'I' INDICATES RUNWAY EDGE  
OR THRESHOLD LIGHT 'T'  
INDICATES TAXIWAY EDGE LIGHT

**LIGHT LOCATION SCHEDULE**

STATION NO.	OFFSET (ft)	STATION NO.	OFFSET (ft)
131-156	DELETED	20930	118 47.5R
			169 47.5R
11-20	138 47.5R	31427.5	117 47.5R
	139 47.5R		150 47.5R
	139 27.5R	33925.0	116 47.5R
	139 27.5R		151 47.5R
	138 27.5R	34408.3	205 47.5L
	138 27.5R		206 50.5L
	139 47.5L	34422.3	207 61.5L
13-28	127 47.5R	34448.3	208 87.5L
	140 47.5L		34448.3 208 87.5L
18-28	126 47.5R	35122.5	115 47.5R
	141 47.5L		
17-18	125 47.5R	35122.5 202 61.5L	
	142 47.5L		
18-14	124 47.5R	35458.3 204 47.5L	
	143 47.5L		203 50.5L
21-10	123 47.5R	37420 101 47.5L	
	144 47.5L		114 47.5R
25-06	122 47.5R	38182.5 102 47.5L	
	145 47.5L		113 47.5R
25-02	121 47.5R	40485 103 47.5L	
	144 47.5L		112 47.5R
26-10	120 47.5R	42325 104 47.5L	
	147 47.5L		111 47.5R
26-64	119 47.5R	44410 105 47.5L	
			106 37.5L
28-05	118 47.5L		107 37.5L
			108 27.5R
28-05	118 47.5L		109 37.5R
			110 47.5R



**AS BUILT PLANS**  
I hereby certify that all the construction  
required by this set of drawings has been  
accomplished as indicated herein.  
By: *[Signature]* Resident Engineer  
Date: 8-22-50

A.I.P. PROJECT NO. 3-50-0015-06

RUTLAND STATE AIRPORT  
ELECTRICAL DETAILS

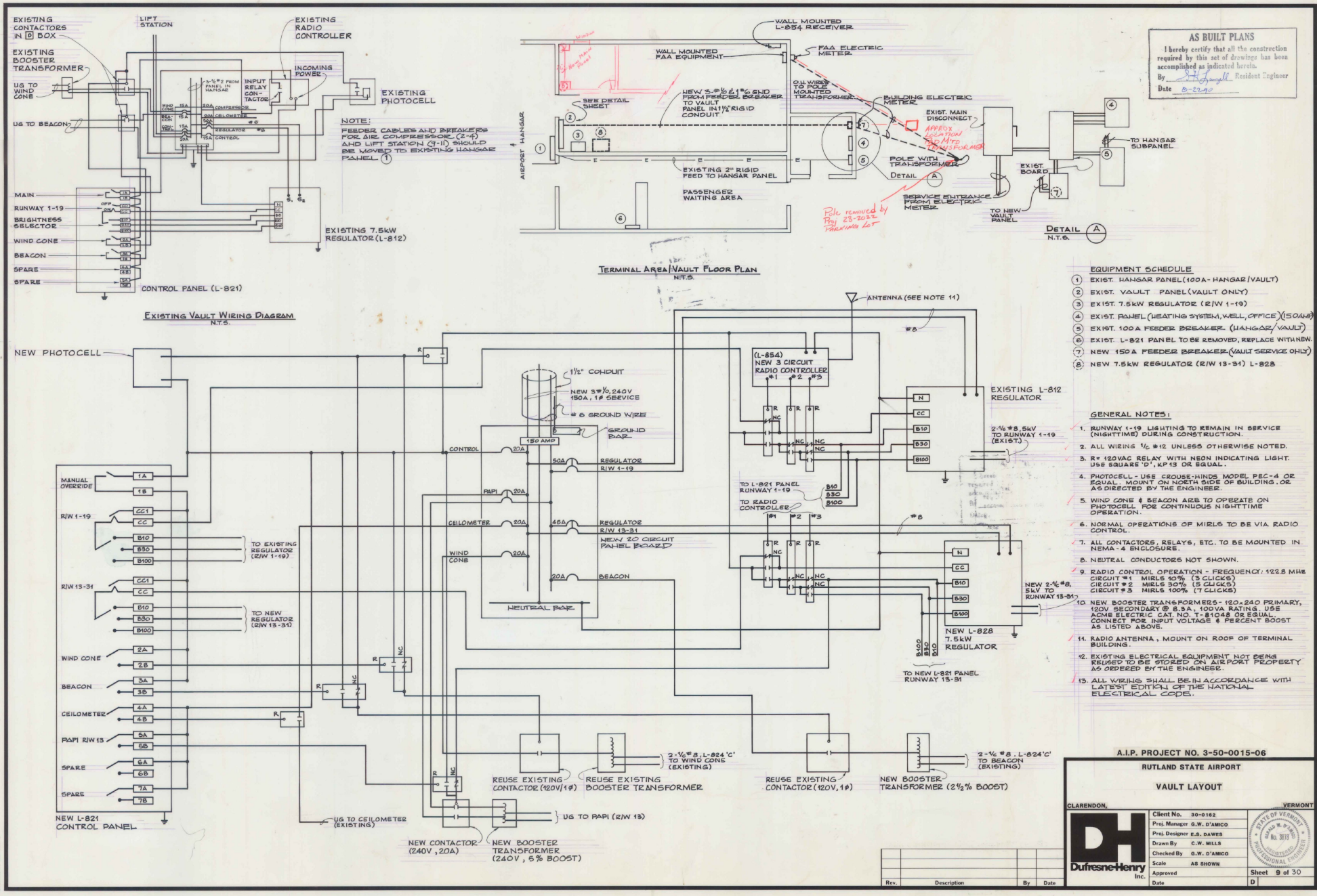
CLARENDON, VERMONT

**DH** Dufresne-Henry Inc.

Client No. 30-0182  
Proj. Manager G.W. D'AMICO  
Proj. Designer E.B. SAWES  
Drawn By C.W. MILLS  
Checked By G.W. D'AMICO  
Scale AS SHOWN

Approved Date  
Sheet 8 of 30

Rev.	Description	By	Date



**AS BUILT PLANS**  
 I hereby certify that all the construction required by this set of drawings has been accomplished as indicated hereon.  
 By: *[Signature]* Resident Engineer  
 Date: 8-2-64

**NOTE:**  
 FEEDER CABLES AND BREAKERS FOR AIR COMPRESSOR (2-4) AND LIFT STATION (2-10) SHOULD BE MOVED TO EXISTING HANGAR PANEL ①

**TERMINAL AREA VAULT FLOOR PLAN**  
 N.T.S.

- EQUIPMENT SCHEDULE**
- EXIST. HANGAR PANEL (100A - HANGAR (VAULT))
  - EXIST. VAULT PANEL (VAULT ONLY)
  - EXIST. 7.5kW REGULATOR (RW 1-19)
  - EXIST. PANEL (HEATING SYSTEM, WELL OFFICE) (150A)
  - EXIST. 100A FEEDER BREAKER (HANGAR/VAULT)
  - EXIST. L-821 PANEL TO BE REMOVED, REPLACE WITH NEW.
  - NEW 150A FEEDER BREAKER (VAULT SERVICE ONLY)
  - NEW 7.5kW REGULATOR (RW 13-31) L-828

- GENERAL NOTES:**
- RUNWAY 1-19 LIGHTING TO REMAIN IN SERVICE (NIGHTTIME) DURING CONSTRUCTION.
  - ALL WIRING 1/2" #12 UNLESS OTHERWISE NOTED.
  - R = 120VAC RELAY WITH NEON INDICATING LIGHT. USE SQUARE 'D', KP 13 OR EQUAL.
  - PHOTOCELL - USE CROUSE-HINDS MODEL PEC-4 OR EQUAL. MOUNT ON NORTH SIDE OF BUILDING OR AS DIRECTED BY THE ENGINEER.
  - WIND CONE & BEACON ARE TO OPERATE ON PHOTOCELL FOR CONTINUOUS NIGHTTIME OPERATION.
  - NORMAL OPERATIONS OF MIRLS TO BE VIA RADIO CONTROL.
  - ALL CONTACTORS, RELAYS, ETC. TO BE MOUNTED IN NEMA-4 ENCLOSURE.
  - NEUTRAL CONDUCTORS NOT SHOWN.
  - RADIO CONTROL OPERATION - FREQUENCY: 122.8 Mhz  
 CIRCUIT #1 MIRLS 90% (3 CLICKS)  
 CIRCUIT #2 MIRLS 90% (15 CLICKS)  
 CIRCUIT #3 MIRLS 100% (7 CLICKS)
  - NEW BOOSTER TRANSFORMERS - 120V, 240V PRIMARY, 120V SECONDARY @ 5.3A, 100VA RATING. USE ACME ELECTRIC CAT. NO. T-81048 OR EQUAL. CONNECT FOR INPUT VOLTAGE & PERCENT BOOST AS LISTED ABOVE.
  - RADIO ANTENNA, MOUNT ON ROOF OF TERMINAL BUILDING.
  - EXISTING ELECTRICAL EQUIPMENT NOT BEING REQUIRED TO BE STORED ON AIRPORT PROPERTY AS ORDERED BY THE ENGINEER.
  - ALL WIRING SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.

A.I.P. PROJECT NO. 3-50-0015-06

RUTLAND STATE AIRPORT

VAULT LAYOUT

CLARENDON, VERMONT

**DH**  
 Dufresne-Henry Inc.

Client No. 30-0182  
 Prof. Manager G.W. D'AMICO  
 Prof. Designer E.S. DAWES  
 Drawn By C.W. MILLS  
 Checked By G.W. D'AMICO  
 Scale AS SHOWN  
 Date

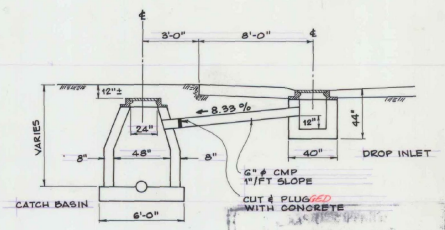
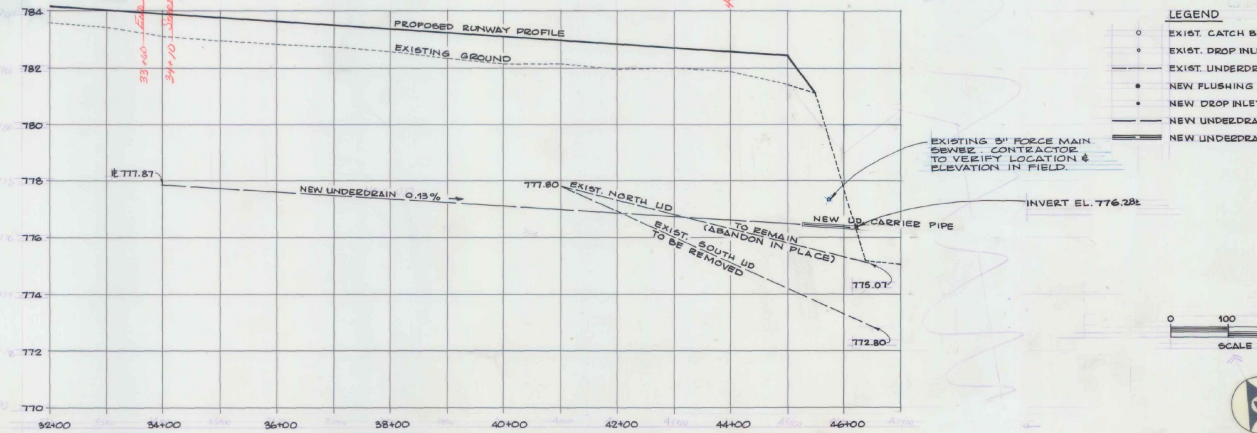
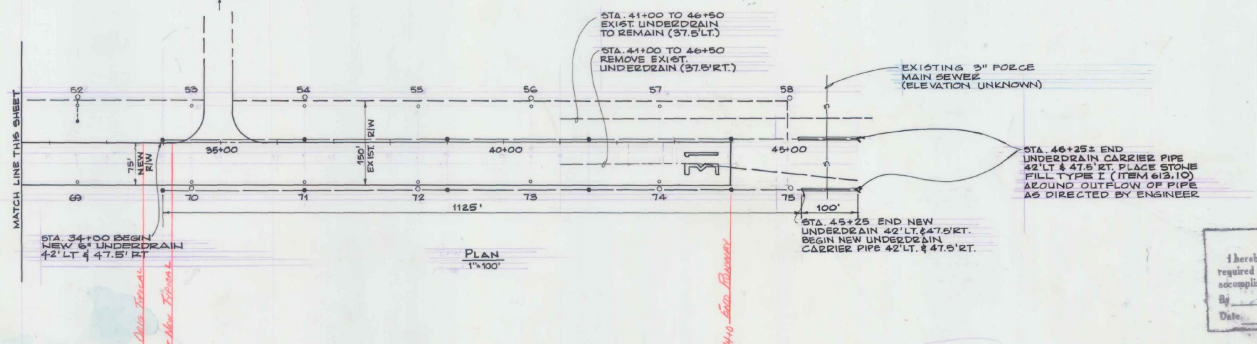
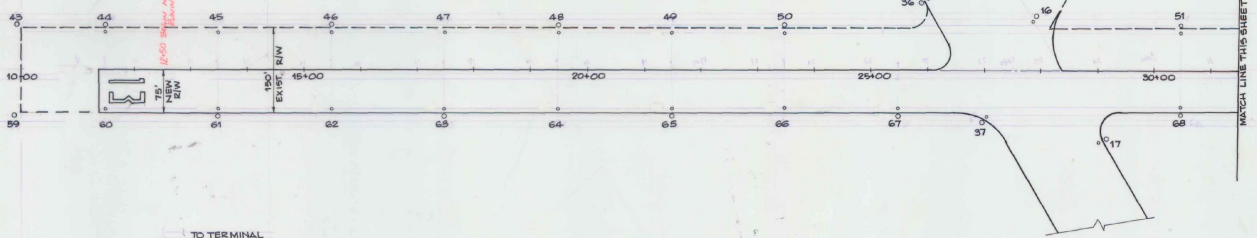
STATE OF VERMONT  
 No. 3078  
 PROFESSIONAL ENGINEER

Sheet 9 of 30

Rev.	Description	By	Date

**NEW FLUSHING BASIN SCHEDULE**

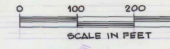
STATION	OFFSET LT.	OFFSET RT.
34+00	42'	47.5'
36+50	42'	47.5'
39+00	42'	47.5'
41+50	42'	47.5'
44+00	42'	47.5'



**NOTE:**  
IF DROP INLET IS TO BE REMOVED, THE CONTRACTOR WILL CUT AND PLUG THE 6\"/>

**AS BUILT PLANS**  
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.  
By: *[Signature]* Resident Engineer  
Date: 8-23-90

- LEGEND**
- EXIST. CATCH BASIN
  - EXIST. DROP INLET
  - EXIST. UNDERDRAIN
  - NEW FLUSHING BASIN
  - NEW DROP INLET
  - NEW UNDERDRAIN
  - NEW UNDERDRAIN CARRIER PIPE



NO.	TYPE	STA. OFFSET	EXISTING S.E. EL.	FINAL S.E. EL.	REMARKS
16	CB	23400.50, 45' LT	784.22	784.22	To remain
17	CB	23400.50, 45' LT	784.22	784.22	To remain
18	CB	23400.50, 45' LT	783.75	783.75	To remain
36	CB	23400.50, 120' LT	781.26	781.26	To remain
37	CB	23400.50, 120' LT	783.81	783.81	To remain
38	CB	23400.50, 120' LT	783.81	783.81	To remain
43	CB	5995, 78' RT	781.02	781.12	Adjust Frame and Grate
44	CB	11448.5, 78' RT	781.30	781.45	Adjust Frame and Grate
45	CB	13448.5, 67' LT	781.02	781.12	Remove DI
46	CB	15448.5, 67' LT	781.85	781.96	Adjust Frame and Grate
47	CB	17448.5, 67' LT	781.02	781.12	Remove DI
48	CB	19448.5, 67' LT	782.66	783.00	Adjust Frame and Grate
49	CB	21448.5, 67' LT	781.02	781.12	Remove DI
50	CB	23448.5, 67' LT	783.82	784.06	Adjust Frame and Grate
51	CB	23448.5, 67' LT	781.12	781.22	Adjust Frame and Grate
52	CB	30448.5, 78' RT	783.81	783.85	Adjust Frame and Grate
53	CB	30448.5, 78' RT	783.20	783.34	Adjust Frame and Grate
54	CB	32448.5, 67' LT	781.02	781.12	Remove DI
55	CB	34448.5, 67' LT	782.26	782.42	Adjust Frame and Grate
56	CB	38448.5, 67' LT	781.02	781.12	Remove DI
57	CB	40448.5, 78' RT	781.21	781.28	Adjust Frame and Grate
58	CB	42975.5, 67' LT	781.02	781.12	Remove DI
59	CB	45402, 78' RT	781.11	781.40	Adjust Frame and Grate
60	CB	5995, 78' RT	781.02	781.76	Adjust Frame and Grate
61	CB	11448.5, 67' LT	781.30	781.30	Remove DI
62	CB	13448.5, 78' RT	781.28	782.28	Adjust Frame and Grate
63	CB	15448.5, 67' LT	781.02	781.12	Remove DI
64	CB	17448.5, 78' RT	782.13	782.85	Adjust Frame and Grate
65	CB	19448.5, 67' LT	781.02	781.12	Remove DI
66	CB	21448.5, 67' LT	782.84	783.42	Adjust Frame and Grate
67	CB	23448.5, 67' LT	781.02	781.12	Remove DI
68	CB	25448.5, 78' RT	783.72	783.81	Adjust Frame and Grate
69	CB	25448.5, 67' LT	781.02	781.12	Remove DI
70	CB	30448.5, 78' RT	783.47	783.74	Adjust Frame and Grate
71	CB	30448.5, 67' LT	781.02	781.12	Remove DI
72	CB	34448.5, 67' LT	782.69	783.22	Adjust Frame and Grate
73	CB	34448.5, 67' LT	781.02	781.12	Remove DI
74	CB	38448.5, 78' RT	782.00	782.64	Adjust Frame and Grate
75	CB	38448.5, 67' LT	781.02	781.12	Remove DI
76	CB	40980.5, 67' LT	781.02	781.12	Remove DI
77	CB	42975.5, 78' RT	781.43	782.14	Adjust Frame and Grate
78	CB	42975.5, 67' LT	781.02	781.12	Remove DI
79	CB	45402, 78' RT	781.12	781.82	Adjust Frame and Grate

**RUTLAND STATE AIRPORT**

**DRAINAGE DETAILS**

CLARENDON, VT

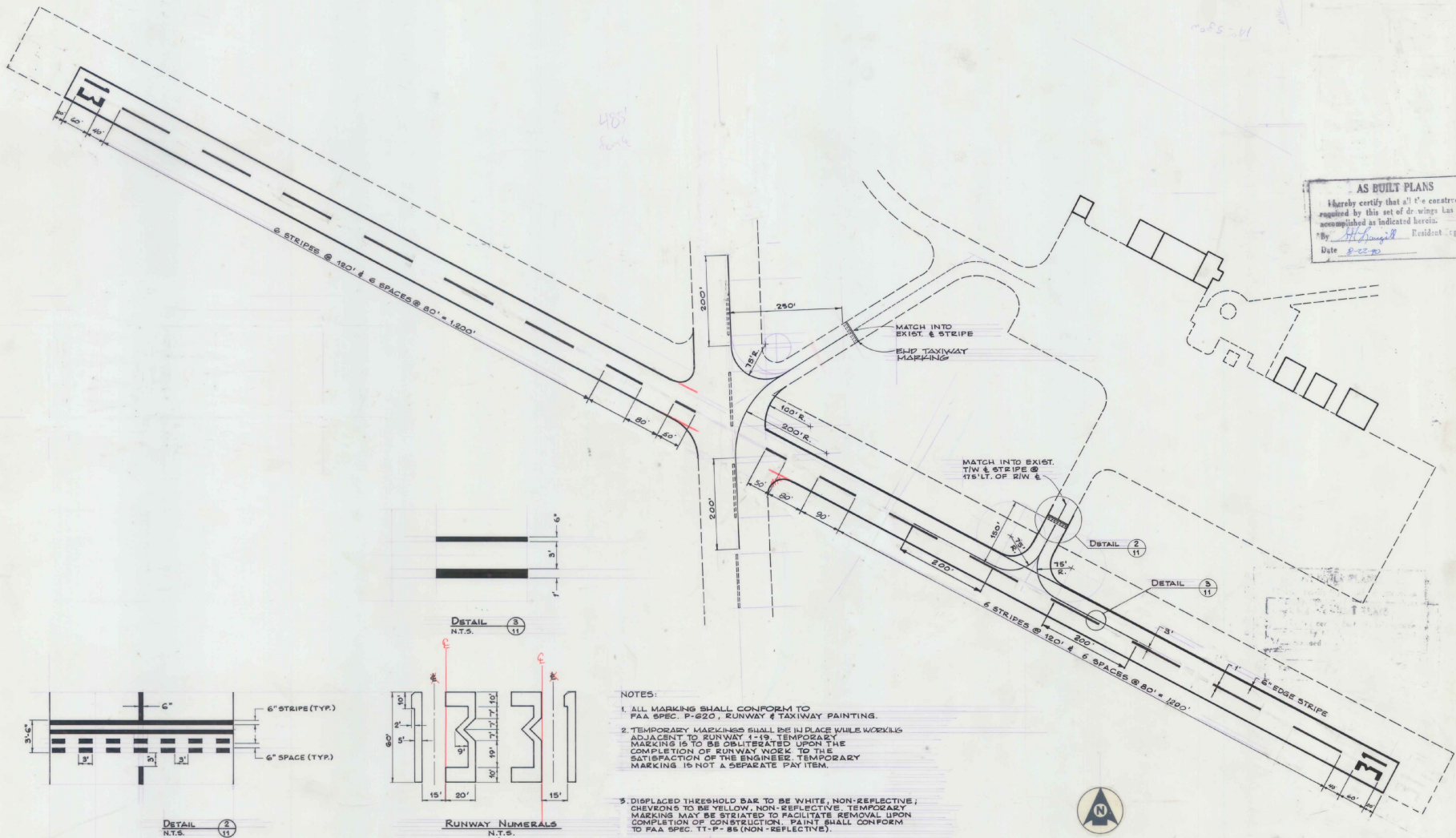
**DH** Dufresne-Henry Inc.

Client No. 35-0162  
Prof. Designer G.W. D'AMICO  
Drawn By C.W. MILES  
Checked By G.W. D'AMICO  
Scale AS SHOWN  
Approved [Signature]  
Date

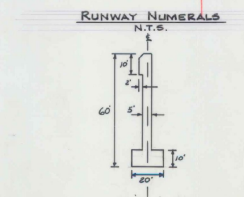
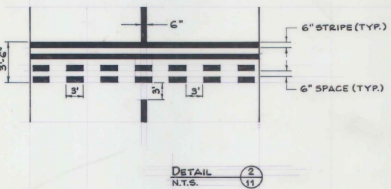
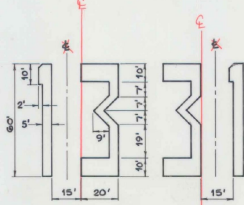
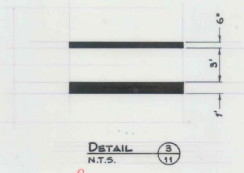
A.I.P. PROJECT NO. 3-50-0015-06

Sheet 10 of 30

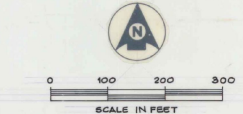
REVISION 44132 (3/23/90)



**AS BUILT PLANS**  
 I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.  
 By *H.C. Long* Resident Engineer  
 Date 8-22-80



- NOTES:**
1. ALL MARKINGS SHALL CONFORM TO FAA SPEC. P-620, RUNWAY & TAXIWAY PAINTING.
  2. TEMPORARY MARKINGS SHALL BE IN PLACE WHILE WORKING ADJACENT TO RUNWAY 1-19. TEMPORARY MARKING IS TO BE OBLITERATED UPON THE COMPLETION OF RUNWAY WORK TO THE SATISFACTION OF THE ENGINEER. TEMPORARY MARKING IS NOT A SEPARATE PAY ITEM.
  3. DISPLACED THRESHOLD BAR TO BE WHITE, NON-REFLECTIVE; CHEVRONS TO BE YELLOW, NON-REFLECTIVE. TEMPORARY MARKINGS MAY BE STRIATED TO FACILITATE REMOVAL UPON COMPLETION OF CONSTRUCTION. PAINT SHALL CONFORM TO FAA SPEC. TT-P-86 (NON-REFLECTIVE).
  4. TEMPORARY MARKING MAY BE SNOW FENCE, LIMESTONE, TARPULLEN OR OTHER MEANS SATISFACTORY TO THE ENGINEER.
  5. RUNWAY CENTERLINE & NUMERALS ARE TO BE WHITE. TAXIWAY CENTERLINE & HOLDLINE ARE TO BE AVIATION YELLOW, CONFORMING TO FEDERAL SPEC. TT-P-85 (HIGH REFLECTIVE).
  6. THE NUMERAL ONE, WHEN USED ALONE, CONTAINS A 20'-0" x 10'-0" HORIZONTAL BAR TO DIFFERENTIATE IT FROM THE RUNWAY CENTERLINE MARKINGS.



**RUTLAND STATE AIRPORT**  
**MARKING DIAGRAM**

CLARENDON, VERMONT

Client No. 30-0182  
 Proj. Manager G.W. D'AMICO  
 Proj. Designer E.S. DAWES  
 Drawn By C.W. MILLS  
 Checked By G.W. D'AMICO  
 Scale AS SHOWN  
 Approved \_\_\_\_\_  
 Date \_\_\_\_\_

**DH**  
 Dufresne-Henry Inc.  
 1031 Washington Ave.  
 Rutland, Vermont 05701

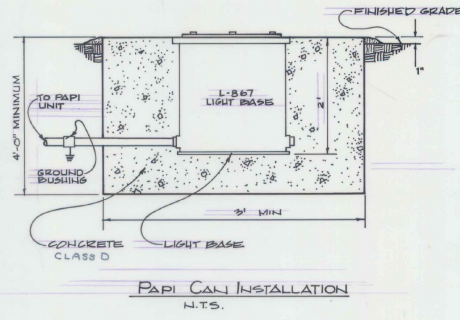
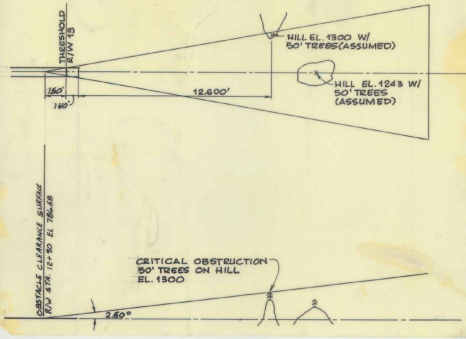
STATE OF VERMONT  
 No. 3073  
 PROFESSIONAL ENGINEER

Sheet 11 of 30

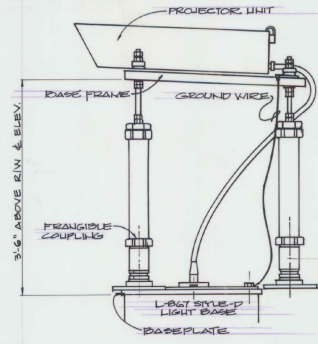
A.I.P. PROJECT NO. 3-50-0015-06

Rev.	Description	By	Date

DRAWING MADE BY 403373

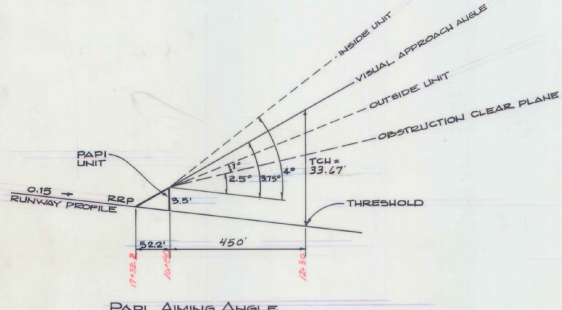


PAPI CAN INSTALLATION  
N.T.S.

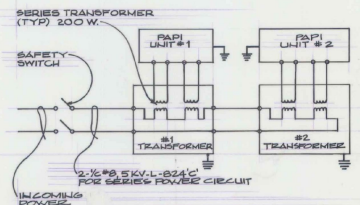


2 WAY PAPI MOUNTING DETAIL  
N.T.S.

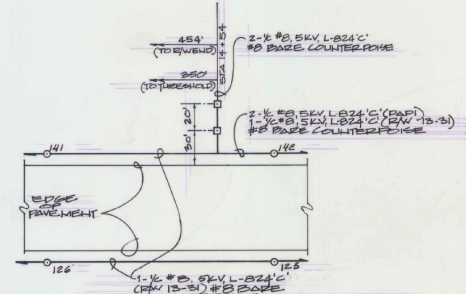
- PAPI NOTES**
1. CONTRACTOR TO STENCIL THE AIMING ANGLE ON THE PROJECTOR UNITS.
  2. PAPI TO CONFORM TO FAA SPEC. (L-80), STYLE A (VOLTAGE POWERED) CLASS 2 (OPERATION TO - 5000').
  3. REFER TO MANUFACTURER'S SPECIFICATION FOR DIMENSIONS AND FOUNDATION SPACING.



PAPI AIMING ANGLE  
N.T.S.

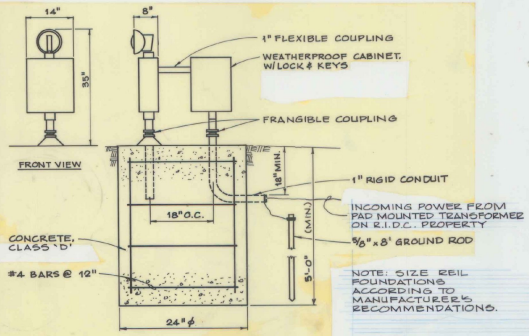


PAPI WIRING DIAGRAM  
N.T.S.

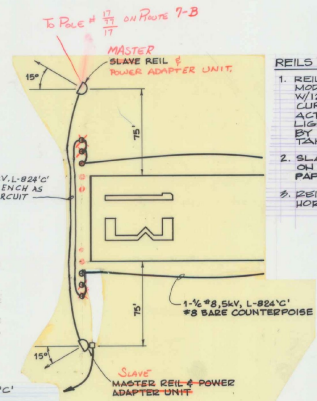


PAPI SITING & WIRING DIAGRAM  
1" = 50'

**AS BUILT PLANS**  
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.  
By *[Signature]* Resident Engineer  
Date 8-22-70



MASTER REIL UNIT  
N.T.S.



REILS SITING & WIRING DIAGRAM  
N.T.S.

**REILS NOTES**

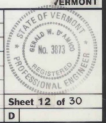
1. REILS TO BE AMPASSADORE MODEL NO. 68A 20-100 OR EQUAL W/120V, 6.6A POWER ADAPTER & CURRENT SENSING TO BE ACTIVATED OFF RUNWAY LIGHTING CIRCUIT AS MANUL BY GODFREY ENGINEERING, TAMPA, FL.
2. SLAVE REIL TO BE MOUNTED ON FOUNDATION SIMILAR TO PAPI FOUNDATION SHOWN ABOVE.
3. REILS SHALL BE AIMED 15° HORIZONTAL & 10° VERTICAL.

2-1/2" #8, 5KV, L-824'C' UNDERGROUND TO PAD MOUNTED TRANSFORMER ON R.I.D.C. PROPERTY SEE DETAIL ON SHEET 7 OF 25.

A.I.P. PROJECT NO. 3-50-0015-06  
RUTLAND STATE AIRPORT

**APPROACH AIDS**

CLARENDON,	Client No. 30-0162	PROJ. MANAGER G.W. D'AMICO	DESIGNED E.S. DAWES	DRAWN BY C.W. MILLS	CHECKED BY G.W. D'AMICO	SCALE AS SHOWN
<b>DH</b> Dufresne-Henry Inc.	PROJ. DESIGNER E.S. DAWES	DATE 6-14-85	DATE 7-12-85	DATE	DATE	DATE



Rev.	Description	By	Date
1	DELETE VASH, INSERT PAPI		6-14-85
2	ADD REILS POWER VIA R.I.D.C.		7-12-85