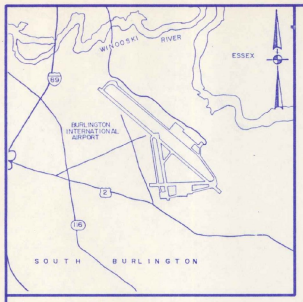
Contract Set 3 of 6

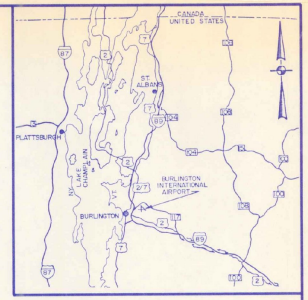


VICINITY MAP

FEET 2000 0 2000 4000 FEET

SCALE: 1" = 2000'

CITY OF BURLINGTON VERMONT



LOCATION MAP

MILE 11 0 11 22 MILES

SCALE: 1" = 11 MILES (APPROX.)

BURLINGTON INTERNATIONAL AIRPORT

INSTALL EMERGENCY GENERATOR

AIP PROJECT NO. 3-50-0005-13

AIR 03-2068 7

JUNE 1988

MAJOR ITEM QUANTITIES

ITEM NO.	DESCRIPTION	UNIT
3-1	UNDERGROUND FUEL OIL STORAGE TANK	LUMP SUM
7-1	INSTALL DIESEL ENGINE/GENERATOR	LUMP SUM

INDEX TO DRAWINGS

DWG. NO.	TITLE	SHT. NO.
1	TITLE SHEET	1 OF 7
2	GENERAL PLAN	2 OF 7
3	FUEL TANK INSTALLATION AND MISC. DETAILS	3 OF 7
4	VENTILATION, PIPING AND DETAILS	4 OF 7
5	DEMOLITION PLAN - LTG. AND RECP. PLAN	5 OF 7
6	POWER PLAN	6 OF 7
7	ONE LINES AND ELEMENTARIES	7 OF 7

DESIGNERS STATEMENT REGARDING COMPLIANCE

These plans and specifications have been prepared to the best of my knowledge and belief, in accordance with current FAA Advisory Circulars as listed in AC 00-2Z, Change 1, Advisory Circular Checklist, Dated 10/16/85. Known deviations from the FAA standards were approved by FAA letters dated _____ and are discussed in the project engineering report and/or other official project documents.

HOYLE, TANNER & ASSOCIATES, INC.

BY: _____ DATE: 5-6

Registration No. _____

CITY OF BURLINGTON, VERMONT

APPROVED _____
DIRECTOR OF AVIATION

DATE _____

APPROVED _____

DATE _____

VERMONT AGENCY OF TRANSPORTATION

APPROVED _____
SECRETARY OF TRANSPORTATION

DATE _____

APPROVED _____
DIRECTOR OF ENGINEERING & CONSTRUCTION

DATE _____

NOT REQUIRED

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
NEW ENGLAND REGION

APPROVED _____
MANAGER OF AIRPORT ENGINEERING & SAFETY BRANCH

DATE _____

APPROVAL SUBJECT TO COMMENTS AND RECOMMENDATIONS IN LETTERS.

DATED _____

REV.	DESCRIPTION	DR. BY	CKD. BY	APPD. BY	DATE

HTA Hoyle, Tanner & Associates, Inc.
engineers/architects/planners/surveyors
5 COMMERCE PARK NORTH • BEDFORD, NH

in association with:
ABR Alonzo B. Reed, Inc.
architects/engineers/planners
12 FARNSWORTH ST. • BOSTON, MA

CITY OF BURLINGTON, VERMONT
BURLINGTON INTERNATIONAL AIRPORT
INSTALL EMERGENCY GENERATOR

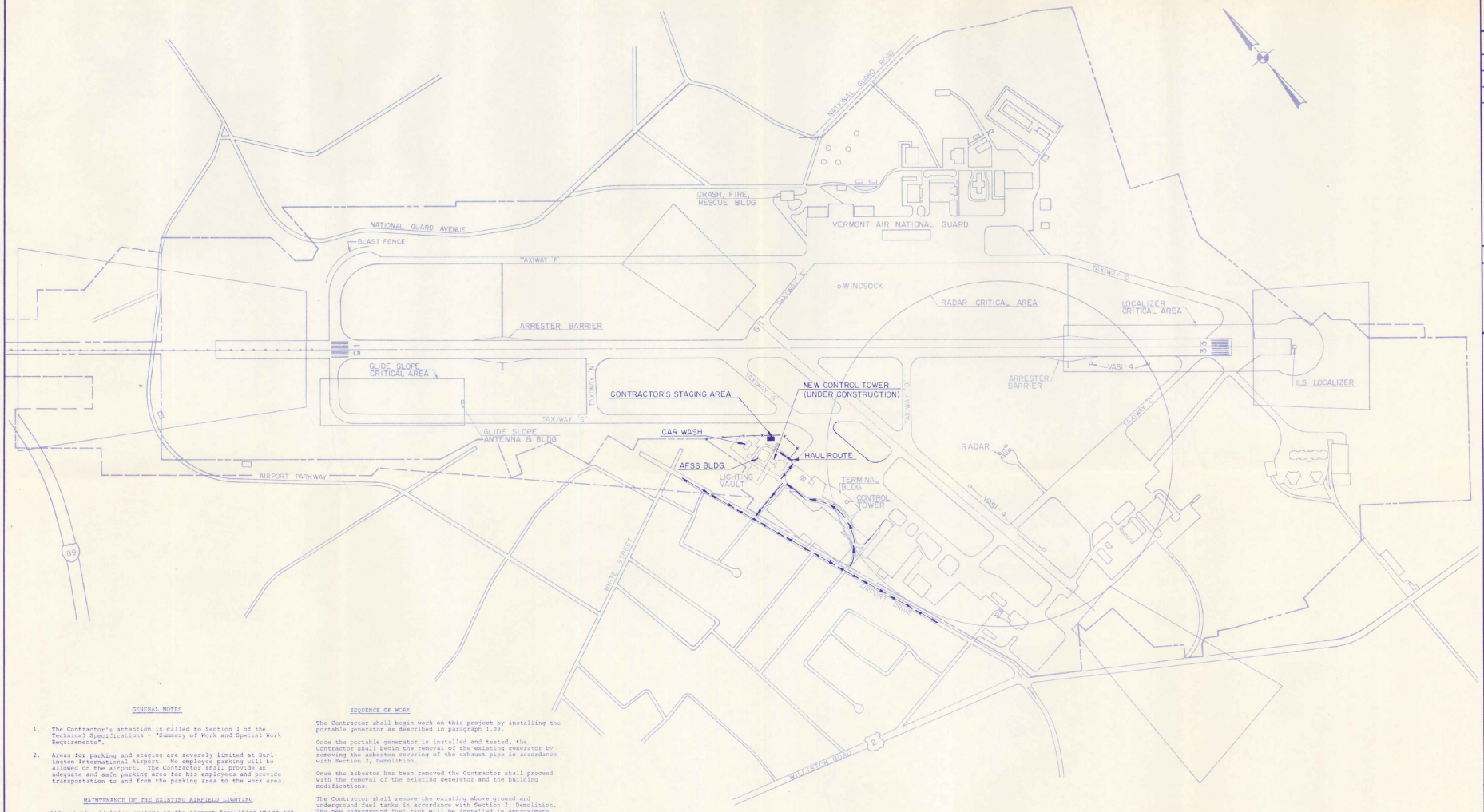
TITLE SHEET

SCALE: AS SHOWN	PROJECT NO. 37717	DRAWING NO. 1
DATE: JUNE 1988	SHEET OF 1 7	
DES. BY JBD	DR. BY CBB	CHKD. BY JBD

AIP NO. 3-50-0005-13

DO NOT SCALE DRAWING

AIP 3-50-0005-13
AIR 03-2068
1988



GENERAL NOTES

1. The Contractor's attention is called to Section 1 of the Technical Specifications - "Summary of Work and Special Work Requirements".

2. Areas for parking and staging are severely limited at Burlington International Airport. No employee parking will be allowed on the airport. The Contractor shall provide an adequate and safe parking area for his employees and provide transportation to and from the parking area to the work area.

MAINTENANCE OF THE EXISTING AIRFIELD LIGHTING

All existing lighting systems on the airport facilities which are open to aircraft shall be operational each night and during inclement weather throughout the construction period.

It shall be the responsibility of the Contractor to check the operation of the existing lights each day, to notify the Engineer and the Operations Coordinator of any problem and make any repairs necessary due to his operations.

The Contractor shall furnish, install, and maintain a 50 KW, 120/240, 1PH, portable engine generator and connect this generator to the existing transfer switch to automatically provide power to the airfield lighting systems in case of the loss of commercial power.

It shall be the Contractor's responsibility to check the operation of the generator each day to insure that generator will operate the airfield lighting in an emergency.

The portable generator shall be installed prior to any work on the existing generator and shall remain in place until the new generator is installed, tested, and accepted. The Contractor shall furnish and install all materials necessary to install the temporary generator and make any temporary connections to keep the existing airfield lighting operational until the new generator is installed, tested and accepted.

SEQUENCE OF WORK

The Contractor shall begin work on this project by installing the portable generator as described in paragraph 1.09.

Once the portable generator is installed and tested, the Contractor shall begin the removal of the existing generator by removing the asbestos covering of the exhaust pipe in accordance with Section 2, Demolition.

Once the asbestos has been removed the Contractor shall proceed with the removal of the existing generator and the building modifications.

The Contractor shall remove the existing above ground and underground fuel tanks in accordance with Section 2, Demolition. The new underground fuel tank will be installed in approximate the same location as the existing underground tank.

The Contractor shall conduct his operations in such a manner as to maintain access at all times to the rental car parking lots and car wash which are adjacent to the lighting vault.

SIMULTANEOUS CONSTRUCTION

The Contractor is hereby notified that contractor(s) for the Federal Aviation Administration will be constructing a new Air Traffic Control Tower adjacent to the Automated Flight Service Station and Contractor(s) for Burlington International Airport will be constructing the north end of the terminal apron. The Contractors on both projects will be working in and around the lighting vault.

DISPOSAL AREA

No disposal of materials from this project will be permitted on airport property.

The Contractor shall legally dispose of all materials off airport property in all accordance with Section 2, Demolition.

ENGINEER/ARCHITECT

REV	DESCRIPTION	DR. CHKD. APPD. BY	BY	DATE

PROJECT NO. 37717

Hoyle, Tanner & Associates, Inc. HTA engineers architects planners economists
Five Commerce Park North Bedford NH 03102 (603) 669 5555 Companies
IN ASSOCIATION WITH:
ALONZO B. REED, INC.
12 Farnsworth St Boston MA 02210

SCALE 1"=400' | DATE: JUNE, 1988 | DES. BY JBD | DR. BY HWW | CHKD BY JBD

DO NOT SCALE DRAWING

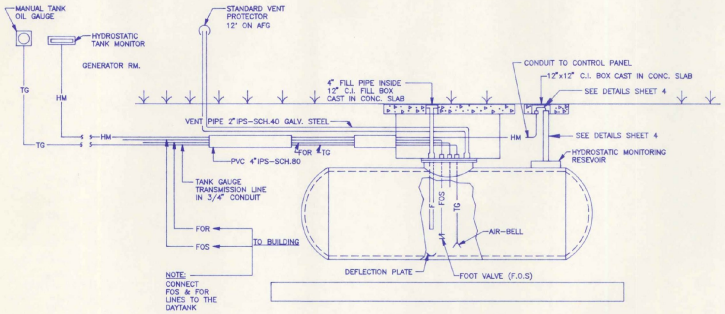
BURLINGTON INTERNATIONAL AIRPORT
SOUTH BURLINGTON, VERMONT

INSTALL EMERGENCY GENERATOR

GENERAL PLAN

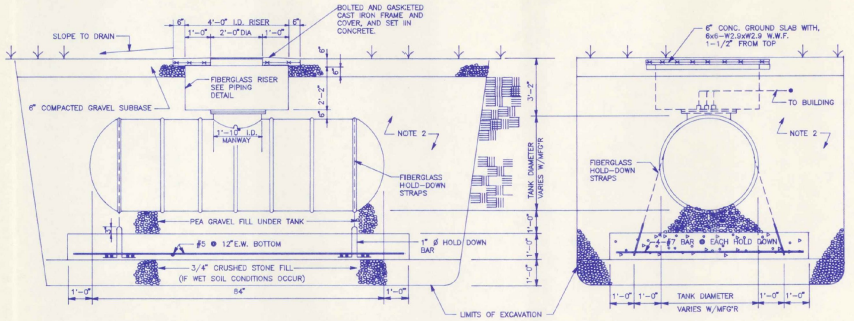
DRAWING NO. 2

SHEET 2 OF 7



MECHANICAL PIPING DETAIL

NO SCALE

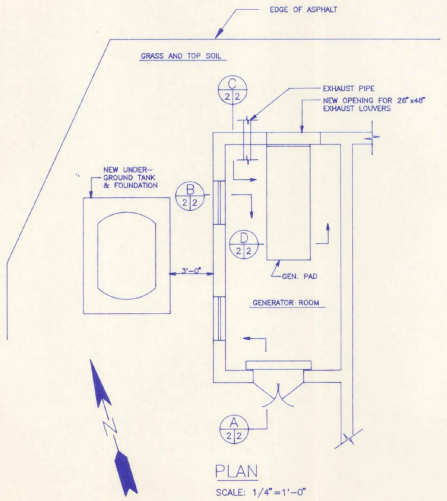


SIDE VIEW

END VIEW

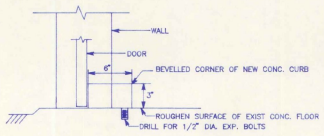
UNDERGROUND FUEL OIL TANK DETAILS

NO SCALE

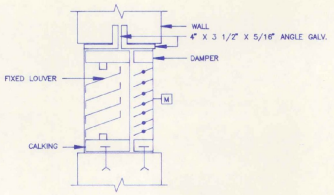


PLAN

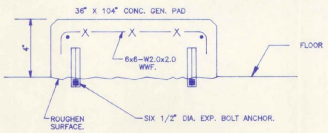
SCALE: 1/4"=1'-0"



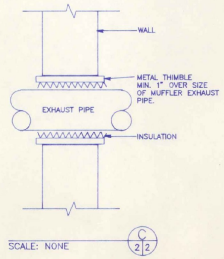
SCALE: NONE



SCALE: NONE



SCALE: NONE



SCALE: NONE

GENERAL NOTES

1. NEW TANK SHALL BE 550 GAL. MINIMUM; DOUBLE WALL FIBERGLASS. PROVIDE ALL NEW PIPING FROM TANK TO GENERATOR ROOM
2. BACKFILL ENTIRE EXCAVATION, EXCEPT WHERE OTHERWISE NOTED, WITH 1/8" TO 3/8" PEA GRAVEL.
3. CONCRETE SHALL HAVE:
   A. MIN. COMPR. STR. OF 3000 PSI AT 28 DAYS
   B. 5-7% ENTRAINED AIR.
   C. FLOAT FINISH FOR SLABS, EXCEPT PAVEMENT
   D. CONFORMANCE TO AC1301 SHALL BE BURLAP DRAG FINISH.
4. CUT AND PATCH EXISTING CONCRETE WALLS AS REQUIRED FOR NEW PIPING.
5. DISSIMILAR METAL PIPE CONNECTIONS SHALL BE MADE BY DIELECTRIC UNIONS.
6. FUEL OIL SUPPLY & RETURN SHALL BE COPPER TUBING TYPE K.
7. FILL PIPE SHALL BE SCHED. 40 GALV. STEEL

LEGEND

—FOS—	FUEL OIL SUPPLY
—FOR—	FUEL OIL RETURN
—F—	FILL PIPE
—V—	VENT PIPE
—TG—	TANK GAUGE LINE
—HM—	HYDROSTATIC MONITORING

ENGINEER/ARCHITECT

REV	DESCRIPTION	DR. BY	CHKD APPD BY	DATE

PROJECT NO. 37717

Hoyle, Tanner & Associates, Inc. HTA Engineers Surveyors Planners Five Commerce Park North Bedford, NH 03102 (603) 669-5555 Companies

SCALE: AS SHOWN | DATE: JUNE, 1988 | DES BY JDC | DR BY WLD | CHKD BY DGF

DO NOT SCALE DRAWING

BURLINGTON INTERNATIONAL AIRPORT
SOUTH BURLINGTON, VERMONT
INSTALL EMERGENCY GENERATOR

FUEL TANK INSTALLATION & MISC. DETAILS

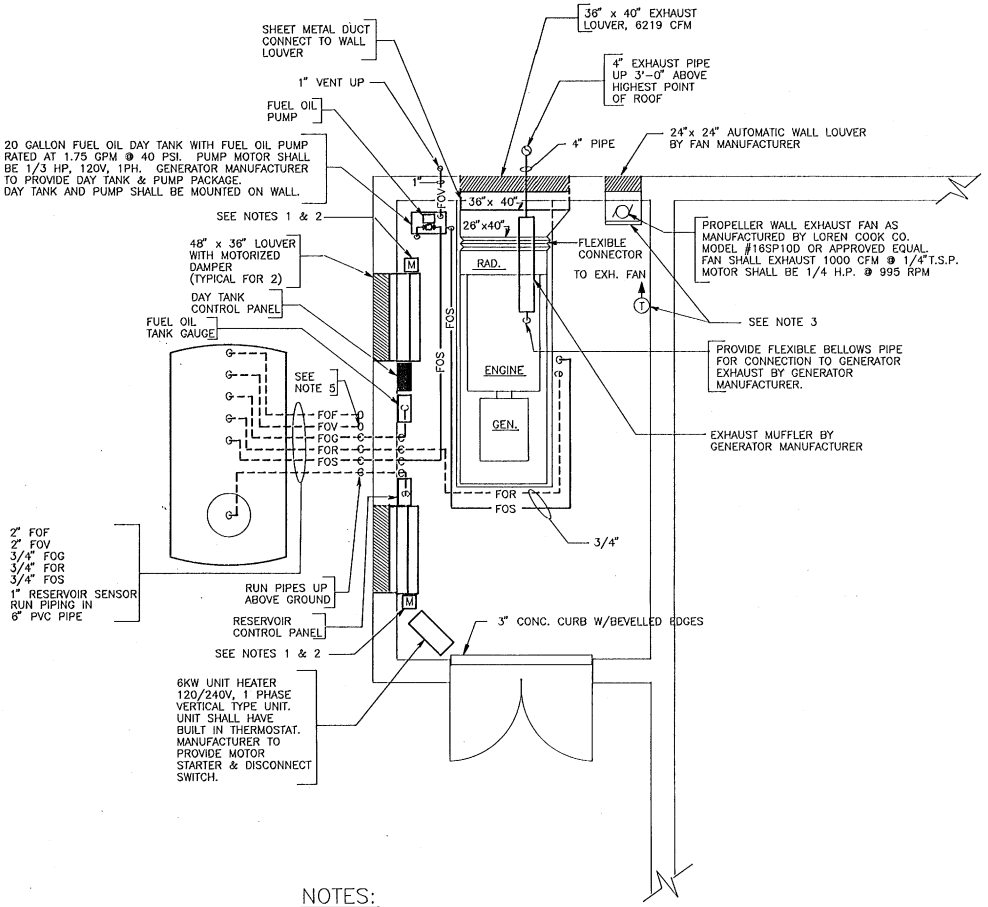
ARCHITECTU...-LISTRUCTURAL

DRAWING NO. 3

SHEET 3 OF 7

REMARKS

138183



NOTES:

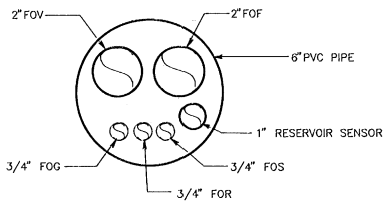
1. MOTOR OPERATOR FOR DAMPER SHALL BE NORMALLY OPEN. DAMPER SHALL BE CLOSED UNDER NORMAL OPERATION. PROVIDE SPRING RETURN ON MOTOR OPERATOR TO OPEN DAMPER WHEN THERE IS A POWER FAILURE.
2. MOTOR OPERATOR FOR DAMPER SHALL BE INTERLOCKED WITH THE WALL EXHAUST FAN TO OPEN WHEN EXHAUST FAN STARTS.
3. ELECTRIC WALL THERMOSTAT SHALL ENERGIZE EXHAUST FAN WHEN SPACE TEMPERATURE IS 90° F OR ABOVE.
4. ALL LOUVERS SHALL HAVE BIRD SCREEN AND INSECT SCREEN.
5. FUEL OIL VENT SHALL RISE 12'-0" ABOVE FINISHED FLOOR.

VENTILATION – PIPING PLAN

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

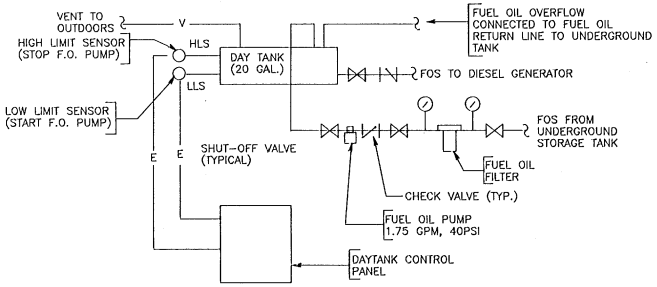
LEGEND

	PIPE TURNED UP
	PIPE TURNED DOWN
	WALL LOUVER
M	MOTORIZED DAMPER
BD	BACKDRAFT DAMPER
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOF	FUEL OIL FILL
FOV	FUEL OIL VENT
FOG	FUEL OIL GAUGE



TYPICAL UNDERGROUND PIPING DETAIL

SCALE: NONE



FUEL OIL PIPING SCHEMATIC

SCALE: NONE

ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR. BY	CHKD BY	DATE

PROJECT NO. 37717

Hoyle, Tanner & Associates, Inc.
Five Commerce Park North · Bedford NH 03102 · (603) 669-5555

SCALE: AS SHOWN | DATE: JUNE, 1988 | DES. BY RJR | DR. BY WD/JJC | CHKD BY DGF

DO NOT SCALE DRAWING

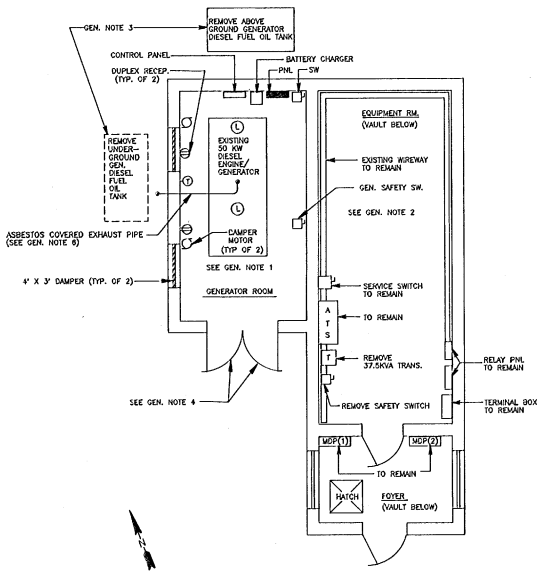
BURLINGTON INTERNATIONAL AIRPORT
SOUTH BURLINGTON, VERMONT
INSTALL EMERGENCY GENERATOR

VENTILATION, PIPING & DETAILS

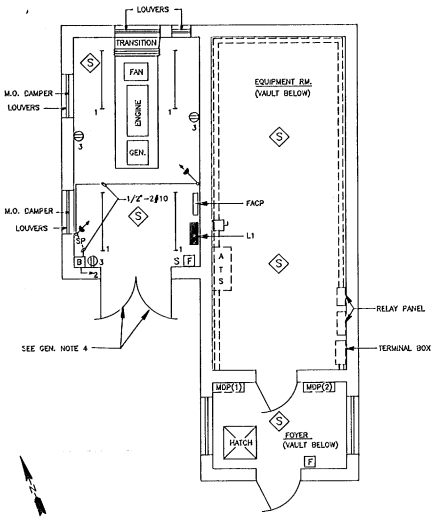
MECHANICAL

DRAWING NO. 4

SHEET 4 OF 7



DEMOLITION PLAN
SCALE: 1/8"=1'-0"



LTG. RECEP. & COMM. PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES

1. REMOVE EXISTING ENGINE/GENERATOR, PAD, PANEL, BATTERY CHARGE, CONTROL PANEL, LIGHTING FIXTURES, RECEPTACLES, SWITCHES, BRANCH CIRCUITS, DAMPERS, DAMPER MOTORS, CONTROL CONDUIT, FEEDERS AND FEEDER CONDUITS FROM GENERATOR ROOM. (SEE ONE LINE DIAG. SH. 7)

2. REMOVE EXISTING GENERATOR SAFETY SWITCH, TRANSFORMER, FEEDER AND CONDUITS. REMOVE GENERATOR ROOM PANEL FEEDER FROM EXISTING WIRE WAY. SERVICE SWITCH, ATS, MDP (1), MDP (2) AND OTHER AIRFIELD LIGHTING EQUIPMENT NOT SHOWN SHALL REMAIN. (SEE ONE LINE DIAG. SH. 7)

3. EXISTING GENERATOR FUEL OIL TANKS, PIPING AND PETROLEUM CONTAMINATED SOIL, SHALL BE REMOVED AND PROPERLY DISPOSED OF IN ACCORDANCE WITH EPA GUIDLINGS AND REGULATIONS CERTIFIED REPORTS OF ROUTING AND FINAL DISPOSAL OF EQUIPMENT.

4. CONTRACTOR SHALL REMOVE TWO EXISTING 30" X 84" LOUVERED DOORS. DOOR FRAME SHALL REMAIN FOR RE-USE. CONTRACTOR SHALL FURNISH AND INSTALL TWO NEW FIRE RATED DOORS.

5. WHEN REMOVING THE EXISTING GENERATOR AND CONCRETE PAD. DO NOT REMOVE THE EXISTING SYSTEM GROUNDING CONDUCTOR. IT WILL BE RECONNECTED TO THE NEW GENERATOR.

6. EXISTING ASBESTOES COVERED EXHAUST PIPE SHALL BE REMOVED AND PROPERLY DISPOSED OF IN ACCORDANCE WITH EPA AND LOCAL AUTHORITIES REGULATIONS. THIS INCLUDES CERTIFIED REPORTS OF ROUTING AND FINAL DISPOSAL OF MATERIAL.

7. ALL CONDUITS WITH 60 HZ POWER CIRCUITS SHALL HAVE A GREEN EQUIPMENT GROUND (EG) CONDUCTOR SIGNAL IN ACCORDANCE WITH THE NEC.

MAINS: 100 AMP ☐ MLO ☐ TOP ☐ BOTTOM ☒ SOLID NEUT (ISOLATED) ☒ GND BUS
BUS: ☐ AL ☒ CU ☒ MAIN CKT BKR ☒ TOP ☐ BOTTOM FR 100 POLES 2 IR 100 CLASS N. A.
MOUNTING: ☐ FLUSH ☒ SURFACE
CHARACTERISTICS 120/240 VOLTS 1 PHASE 3 WIRE
LOADS:
PANEL: L1
REMARKS: SHORT CKT I.C. OF BRKS: 10,000 AMPS. SYM. MIN.

CKT NO.	CKT BKR POLES	CKT BKR FRAME	CKT BKR TRIP	ISOLATED NEUTRAL N — LOAD DESCRIPTION	WIRE SIZE	COND	L1 L2	G — GROUND BUS — LOAD COND	WIRE SIZE	DESCRIPTION	CKT BKR TRIP	CKT BKR FRAME	CKT BKR POLES	CKT NO.
1	1	100	20	ROOM LIGHTING	12AWG	3/4"		3/4"	12AWG	EMERGENCY BATTERY	20	100	1	2
3	1	100	20	ROOM RECEPTACLE	12AWG	3/4"		3/4"	12AWG	M.O. DAMPERS	20	100	1	4
5	1	100	20	ROOM RECEPTACLE	12AWG	3/4"		3/4"	12AWG	BATTERY CHARGER	20	100	1	6
7/9	2	100	30	ENGINE BLOCK HEATER	10AWG	3/4"		3/4"	12AWG	DAY TANK FUEL OIL PUMP	20	100	1	8
11	1	100	20	FIRE ALARM CONTROL PANEL	12AWG	3/4"		3/4"	12AWG	EXHAUST FAN	20	100	1	10
13	1	100	20	SPARE				3/4"	10AWG	UNIT HEATER 6 KW	30	100	2	12 /14
15	1	100	20	SPARE						SPARE	20	100	1	16
17	1			SPACE						SPARE	20	100	1	18
19	1			SPACE						SPACE			1	20
21	1			SPACE						SPACE			1	22
23	1			SPACE						SPACE			1	24

ENGINEER/ARCHITECT
STATE OF VERMONT

REV	DESCRIPTION	DR. CHKD. APPR. BY BY BY	DATE

PROJECT NO. 37717

Hoyle, Tanner & Associates, Inc. HTA Engineers Architects Planners Surveyors Consultants
Five Commerce Park North · Bedford NH 03102 · (603) 669-5555

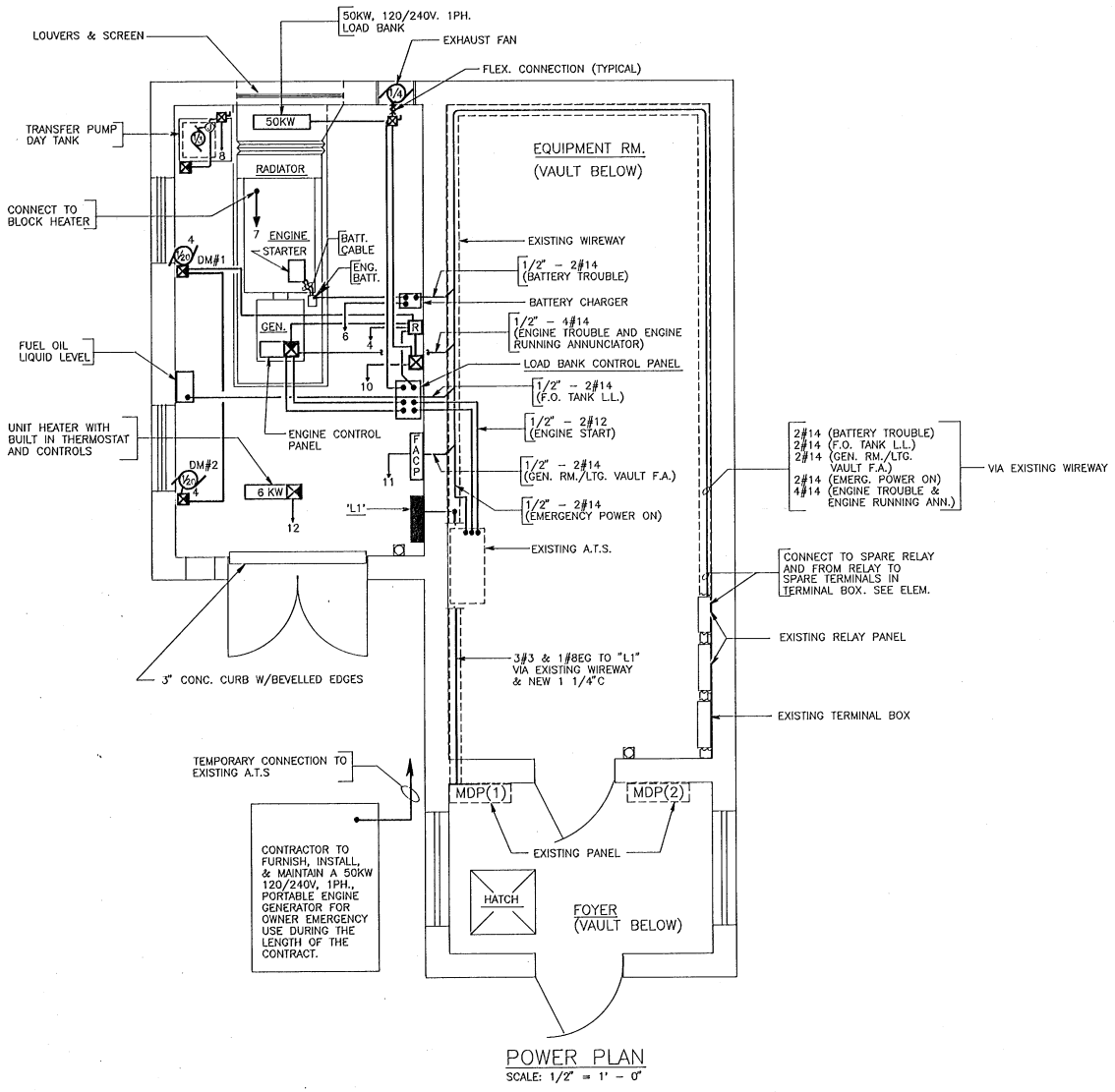
SCALE AS SHOWN | DATE: JUNE, 1988 | DES. BY PAH | DR. BY WDJO'C | CHKD. BY DGF

DO NOT SCALE DRAWING

BURLINGTON INTERNATIONAL AIRPORT
SOUTH BURLINGTON, VERMONT
INSTALL EMERGENCY GENERATOR
DEMOLITION PLAN - LTG. & RECP. PLAN
ELECTRICAL

DRAWING NO. 5

SHEET 5 OF 7



POWER PLAN
SCALE: 1/2" = 1' - 0"

ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR. BY	CHKD. BY	APPD. BY	DATE

PROJECT NO. 37717

Hoyle, Tanner & Associates, Inc.
Five Commerce Park North · Bedford,NH 03102 · (603) 669-5555
HTA Companies

DES. BY PAH | DR. BY WDJ/JC | CHKD. BY DGF

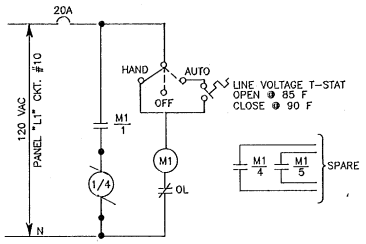
SCALE: AS SHOWN | DATE: JUNE, 1988

BURLINGTON INTERNATIONAL AIRPORT
SOUTH BURLINGTON, VERMONT
INSTALL EMERGENCY GENERATOR
POWER PLAN
ELECTRICAL

DRAWING NO. 6

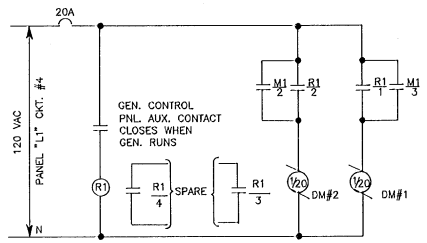
SHEET 6 OF 7

DO NOT SCALE DRAWING



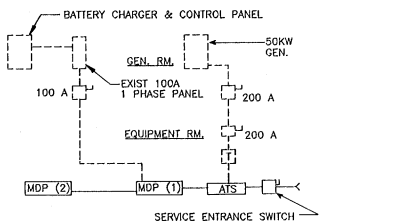
EXHAUST FAN – ELEMENTARY

SCALE: NONE



DAMPER MOTORS – ELEMENTARY

SCALE: NONE

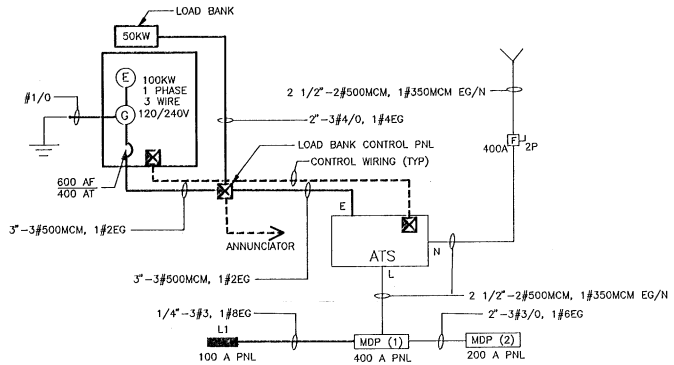


DEMOLITION – ONE LINE

SCALE: NONE

EQUIPMENT TO REMAIN

EQUIPMENT TO BE REMOVED

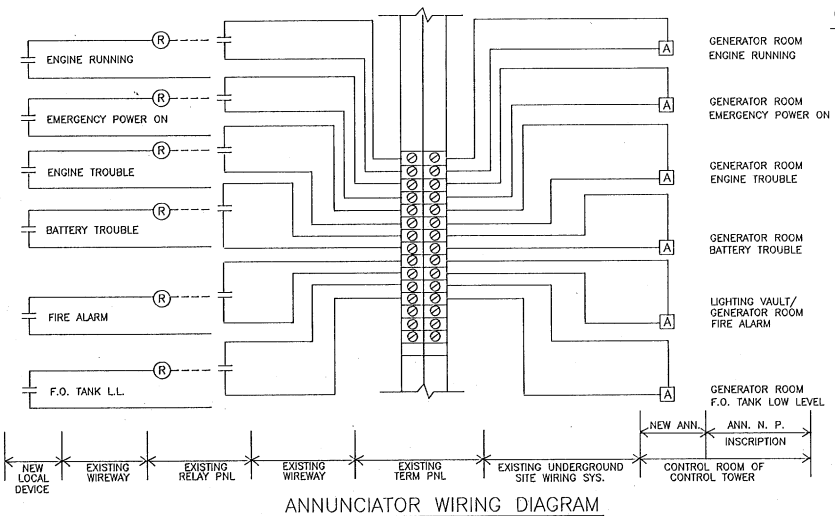


ONE LINE

SCALE: NONE

EXISTING

NEW

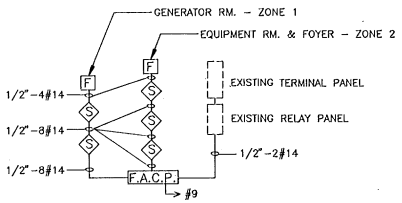


ANNUNCIATOR WIRING DIAGRAM

SCALE: NONE

LEGEND

$\frac{1}{3}$	DUPLEX RECEPTACLE NEMA CONF. 5-20R. SURFACE MOUNTED 3'-6" AFF. NUMBER DENOTES CIRCUIT NO.
ATS	AUTOMATIC TRANSFER SWITCH
MDP(1)	MAIN DISTRIBUTION PANEL
B	12V EMERGENCY BATTERY UNIT WITH SHELF MOUNTES 7'-0" AFF
	25WATT 12V SEAL BEAM EMERGENCY BATTERY LIGHT. MOUNTED 7'-0" AFF
S	SINGLE POLE SWITCH FOR ROOM LIGHTS. MOUNTED 4'-0" AFF
SP	SINGLE POLE SWITCH FOR EMERGENCY LIGHTS. TOGGLE HANDLE LIGHTS WHEN SWITCH IS OFF. MOUNTED IN A HANDY BOX 5'-0" AFF (UNDER EMERGENCY BATTERY).
	4FT. SURFACE MOUNTED INDUSTRIAL FLUORESCENT LIGHTING FIXTURE WITH PORCELAIN REFLECTOR, END CAPS, 120V HIGH POWER FACTOR BALLAST & TWO F40CW LAMPS.
1/3	A.C. MOTOR – 1/3 INDICATES HORSEPOWER
	MAGNETIC MOTOR STARTER, 600V, 3P, NEMA SIZE 0, IN NEMA TYPE 1 INCLOSURE. WITH H-O-A IN COVER, 120V COIL & OVERLOAD.
	CONTROLS BY EQUIPMENT MANUFACTURER
T	LINE VOLTAGE THERMOSTAT RATED 10A 120V
$\frac{R1}{1}$	CONTACT – NORMALLY OPEN
R	RELAY
R	8" X 8" X 6" NEMA TYPE 1 INCLOSURE CONTAINING RELAY R1 RATED AT 300V, 10A, 4 N.O. CONTACTS, AND 120V COIL.
	MANUAL MOTOR STARTER
FACP	FIRE ALARM CONTROL PANEL-4 ZONE
S	FIRE ALARM SMOKE DETECTOR-PHOTO ELECTRIC TYPE WITH AUDIO BASE.
F	FIRE ALARM MANUAL PULL STATION MOUNT 5'-0" AFF
	STORED PRESSURE HALON 1211 WALL MOUNTED FIRE EXTINGUISHER. MINIMUM RATED 10 B.C.
EG	EQUIPMENT GROUND
N	NEUTRAL
T	TRANSFORMER DRY TYPE
2	HOME RUN TO PANEL L1 NUMERICAL DENOTES CKT. NO.
A	ANNUNCIATOR DROP
	SAFETY SWITCH
G E	ENGINE/GENERATOR SET



FIRE ALARM RISER DIAGRAM

SCALE: NONE

ENGINEER/ARCHITECT

NO.	DESCRIPTION	DR. BY	CHKD/APPD BY	DATE

PROJECT NO. 37717

Hoyle, Tanner & Associates, Inc. HTA
Five Commerce Park North · Bedford NH 03102 · (603) 669-5555

DR. BY WD/JOC | CHKD BY DGF

DES. BY PAH | DATE JUNE, 1988 | SCALE AS SHOWN

DO NOT SCALE DRAWING

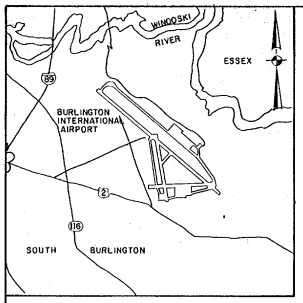
BURLINGTON INTERNATIONAL AIRPORT
SOUTH BURLINGTON, VERMONT
INSTALL EMERGENCY GENERATOR

ONE LINES & ELEMETARIES

ELECTRICAL

DRAWING NO. 7

SHEET 7 OF 7



VICINITY MAP

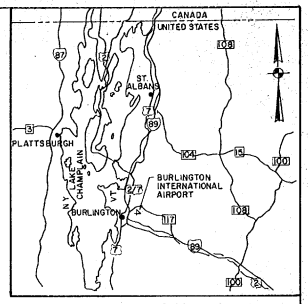
FEET 2000 0 2000 4000 FEET

SCALE: 1" = 2000'

CITY OF BURLINGTON
VERMONT
BURLINGTON INTERNATIONAL AIRPORT

INSTALL 8' SECURITY FENCE

AIP PROJECT NO. 3-50-0005-13
CONTRACT II
SEPTEMBER, 1988



LOCATION MAP

MILE 11 0 11 22 MILES

SCALE: 1" = 11 MILES (APPROX.)

MAJOR ITEM QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	AS BUILT
F-162	8' CHAIN LINK FENCE	2500 L.F	2668 L.F.
F-162	COILED BARBED WIRE	L.F.	0 L.F.

INDEX TO DRAWINGS

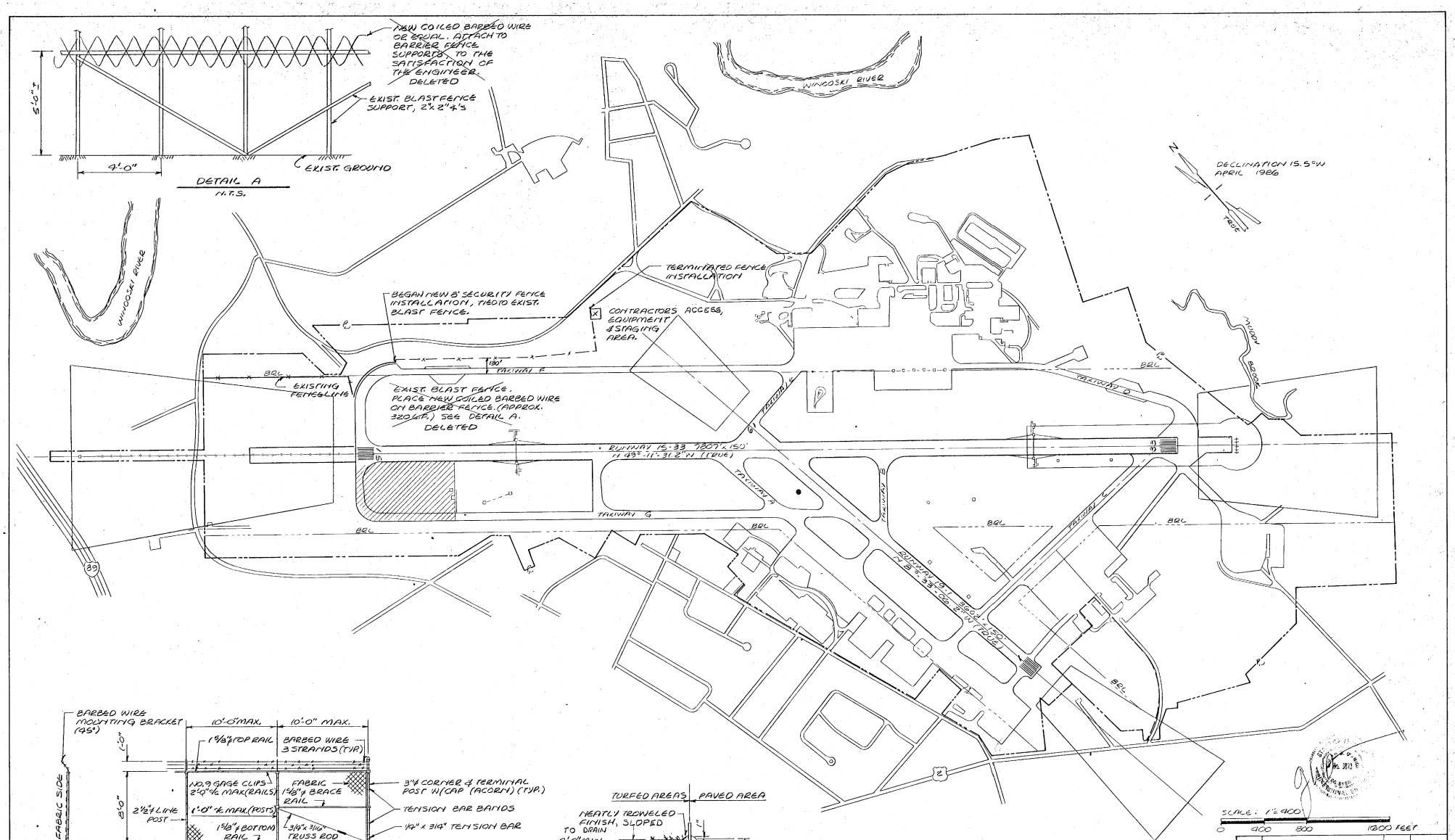
DWG. NO.	TITLE	SHT. NO.
1	TITLE SHEET	1 OF 2
2	GENERAL PLAN	2 OF 2

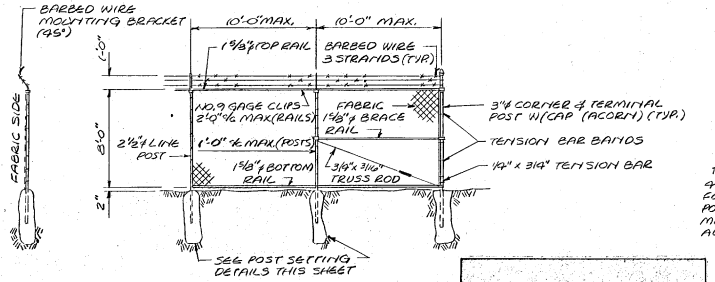
RECORD DRAWINGS
I CERTIFY THAT ALL WORK INDICATED ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.
SIGNED Donald W. Dillmon
DATE 12 JAN 89

DESIGNERS STATEMENT REGARDING COMPLIANCE
THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED TO THE BEST OF MY KNOWLEDGE AND BELIEF, IN ACCORDANCE WITH CURRENT FAA ADVISORY CIRCULARS.
BY: Donald W. Dillmon DATE: Oct 88
BURLINGTON INTERNATIONAL AIRPORT

CITY OF BURLINGTON, VERMONT
APPROVED _____ DIRECTOR OF AVIATION
DATE _____
APPROVED _____ CHAIRMAN, BOARD OF AIRPORT COMMISSIONERS
DATE _____

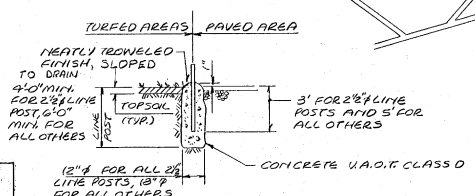
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
NEW ENGLAND REGION
APPROVED _____ MANAGER OF AIRPORT ENGINEERING & SAFETY BRANCH
DATE _____
APPROVAL SUBJECT TO COMMENTS AND RECOMMENDATIONS IN LETTERS
DATED _____





SECURITY FENCE
N.T.S.

RECORD DRAWINGS
I CERTIFY THAT ALL WORK INDICATED ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.
SIGNED: Gerald W. Dimmick
DATE: 4/12 Jun 89



POST SETTING DETAILS
N.T.S.

NOTES:
1. NEW 8' SECURITY FENCE PLACED ON TOP OF BANK (OUTSIDE SAFETY AREA) APPROXIMATELY 120' OFF TAXIWAY ℄.
2. TAXIWAY SAFETY AREA BASED ON C-II-1, WINGSPAN = 180.1' (180.1' x 0.75 ÷ 7 = 127')

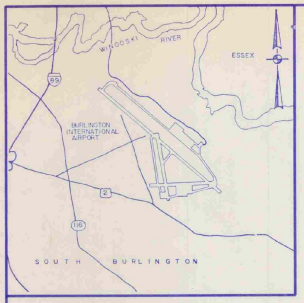
REV.	DESCRIPTION	BY	DATE
1	RECORD DRAWINGS	GWD	11 89

BURLINGTON INTERNATIONAL AIRPORT
SOUTH BURLINGTON, VERMONT

INSTALLATION OF 8' SECURITY FENCE
PLAN - DETAILS

SCALE: AS SHOWN	DATE: AUGUST 1988
DESIGNED: GWD	DRAWN: LRB

AIP 3-50-0006-13 CONTRACT 2

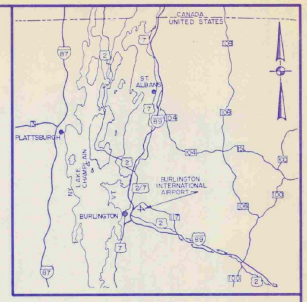


VICINITY MAP

FEET 2000 0 2000 4000 FEET

SCALE: 1" = 2000'

CITY OF BURLINGTON VERMONT



LOCATION MAP

MILE 11 0 11 22 MILES

SCALE: 1" = 11 MILES (APPROX.)

BURLINGTON INTERNATIONAL AIRPORT

INSTALL EMERGENCY GENERATOR

AIP PROJECT NO. 3-50-0005-13

AIR 03-20687

JUNE 1988

MAJOR ITEM QUANTITIES

ITEM NO.	DESCRIPTION	UNIT
3-1	UNDERGROUND FUEL OIL STORAGE TANK	LUMP SUM
7-1	INSTALL DIESEL ENGINE/GENERATOR	LUMP SUM

DESIGNERS STATEMENT REGARDING COMPLIANCE

These plans and specifications have been prepared to the best of my knowledge and belief, in accordance with current FAA Advisory Circulars as listed in AC 00-2?, Change 1, Advisory Circular Checklist, Dated 10/15/86. Known deviations from the FAA standards were approved by FAA letters dated _____ and are discussed in the project engineering reports and/or other official project documents.

HOYLE, TANNER & ASSOCIATES, INC.

BY: _____ DATE: _____

Registration No. _____

INDEX TO DRAWINGS

DWG. NO.	TITLE	SHT. NO.
1	TITLE SHEET	1 OF 7
2	GENERAL PLAN	2 OF 7
3	FUEL TANK INSTALLATION AND MISC. DETAILS	3 OF 7
4	VENTILATION, PIPING AND DETAILS	4 OF 7
5	DEMOLITION PLAN - LTG. AND RECP. PLAN	5 OF 7
6	POWER PLAN	6 OF 7
7	ONE LINES AND ELEMENTARIES	7 OF 7

OCT 10 1989

I HEREBY CERTIFY THAT ALL WORK INDICATED ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED Richard S. Foyle

DATE 10/9/89

"AS BUILT"

CITY OF BURLINGTON, VERMONT

APPROVED _____ DIRECTOR OF AVIATION

DATE _____

APPROVED _____

DATE _____

VERMONT AGENCY OF TRANSPORTATION

APPROVED _____ SECRETARY OF TRANSPORTATION

DATE _____

NOT REQUIRED

APPROVED _____ DIRECTOR OF ENGINEERING & CONSTRUCTION

DATE _____

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
NEW ENGLAND REGION

APPROVED _____ MANAGER, AIRPORT ENGINEERING & SAFETY BRANCH

DATE _____

APPROVAL SUBJECT TO COMMENTS AND RECOMMENDATIONS IN LETTER(S).

DATED _____

REV.	DESCRIPTION	DR. BY	CKD. BY	APPD. BY	DATE
	REVISED "AS-BUILT"	M.V.	R.F.	B.L.	10/89

HTA Hoyle, Tanner & Associates, Inc.
engineers/architects/planners/surveyors
5 COMMERCE PARK NORTH · BEDFORD, NH

in association with:

ABR Alonzo B. Reed, Inc.
architects/engineers/planners
12 FARNSWORTH ST. · BOSTON, MA

CITY OF BURLINGTON, VERMONT
BURLINGTON INTERNATIONAL AIRPORT

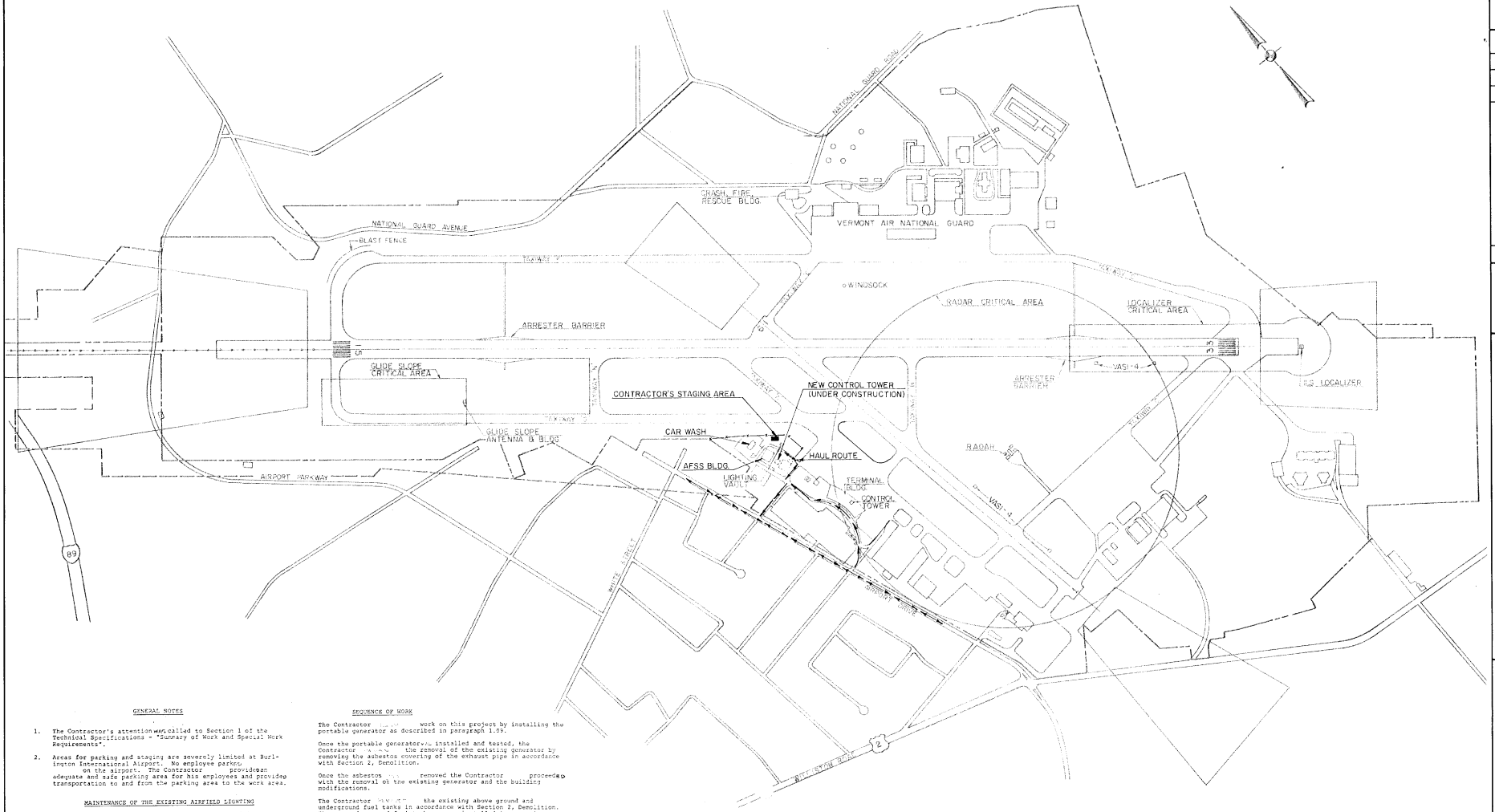
INSTALL EMERGENCY GENERATOR

TITLE SHEET

SCALE: AS SHOWN	PROJECT NO. 37717	DRAWING NO. 1
DATE: JUNE 1988		
DES. BY JBD	DR. BY CBB	CHKD. BY JBD
SHEET OF 1 7		

AIP NO. 3-50-0005-13

DO NOT SCALE DRAWING



GENERAL NOTES

1. The Contractor's attention was called to Section 1 of the Technical Specifications - "Summary of Work and Special Work Requirements".

2. Areas for parking and staging are severely limited at Burlington International Airport. No employee parking on the airport. The Contractor provide an adequate and safe parking area for his employees and provide transportation to and from the parking area to the work area.

MAINTENANCE OF THE EXISTING AIRFIELD LIGHTING

All existing lighting systems on the airport facilities which are open to aircraft shall be operational each night and during inclement weather throughout the construction period.

It shall be the responsibility of the Contractor to check the operation of the existing lights each day, to notify the Engineer and the Operations Coordinator of any problem and make any repairs necessary due to his operations.

The Contractor shall provide a 50 KW, 120/240, 1PH, portable engine generator and connect it to the existing transfer switch to automatically provide power to the airfield lighting systems in case of the loss of commercial power.

It shall be the Contractor's responsibility to check the operation of the generator each day to insure that generator will operate the airfield lighting in an emergency.

The portable generator shall be installed prior to any work on the existing generator and remain in place until the new generator is installed, tested, and accepted. The Contractor shall furnish all labor, materials necessary to install the temporary generator and make any temporary connections to keep the existing airfield lighting operational until the new generator is installed, tested and accepted.

SEQUENCE OF WORK

The Contractor shall begin work on this project by installing the portable generator as described in paragraph 1.09.

Once the portable generator is installed and tested, the Contractor shall begin the removal of the existing generator by removing the asbestos covering of the exhaust pipe in accordance with Section 2, Demolition.

Once the asbestos is removed the Contractor shall proceed with the removal of the existing generator and the building modifications.

The Contractor shall remove the existing above ground and underground fuel tanks in accordance with Section 2, Demolition. The new underground fuel tank shall be installed in approximate the same location as the existing underground tank.

The Contractor shall keep his operations in such a manner as to maintain access at all times to the rental car parking lots and car wash which are adjacent to the lighting vault.

SIMULTANEOUS CONSTRUCTION

The Contractor is hereby notified that contractor(s) for the Federal Aviation Administration is constructing a new Air Traffic Control Tower adjacent to the Automated Flight Service Station and Contractor(s) for Burlington International Airport will be constructing the north end of the terminal apron. The Contractors on both projects will be working in and around the lighting vault.

DISPOSAL AREA

No disposal of materials from this project shall be permitted on airport property.

The Contractor shall legally dispose of all materials off airport property in all accordance with Section 2, Demolition.

I HEREBY CERTIFY THAT ALL WORK INDICATED ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED Richard S. Fife

DATE 10/1/87

"AS BUILT"

ENGINEER/ARCHITECT

REV	DESCRIPTION	DR. BY	CHKD APPD. BY	DATE
	AS BUILT	HWW	RSF	10/87

PROJECT NO. 37717

Hoyle, Tanner & Associates, Inc. engineers planners surveyors HTA Companies
Five Commerce Park North · Bedford, NH 03102 · (603) 669-5555
ALONZO B. REED, INC.
12 Farnsworth St. Boston, MA 02210

SCALE: 1"=400' | DATE: JUNE, 1988 | DES. BY JBD | DR. BY HWW | CHKD BY JBD

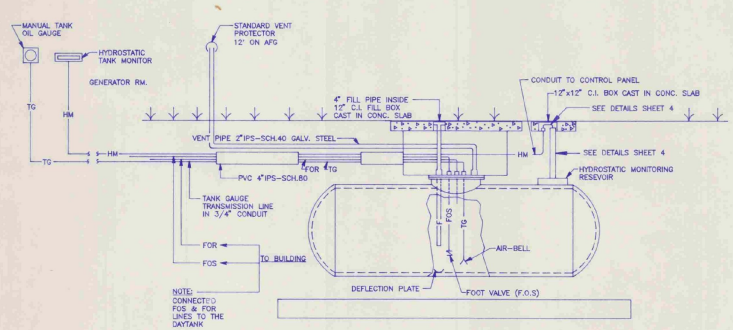
DO NOT SCALE DRAWING

BURLINGTON INTERNATIONAL AIRPORT
SOUTH BURLINGTON, VERMONT
INSTALL EMERGENCY GENERATION

GENERAL PLAN

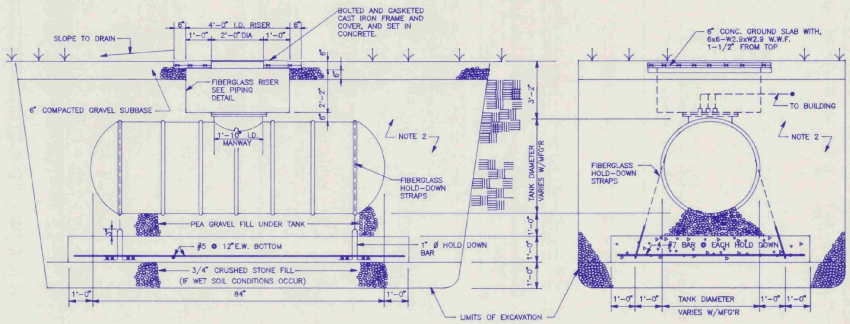
DRAWING NO. 2

SHEET 2 OF 7



MECHANICAL PIPING DETAIL

NO SCALE

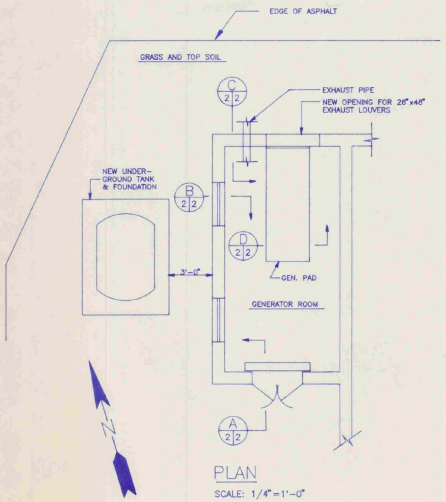


SIDE VIEW

END VIEW

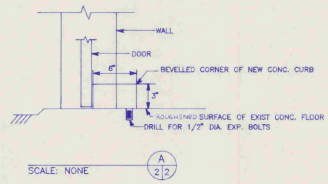
UNDERGROUND FUEL OIL TANK DETAILS

NO SCALE

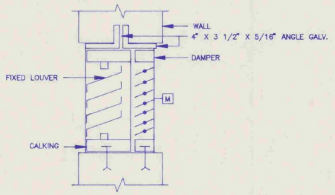


PLAN

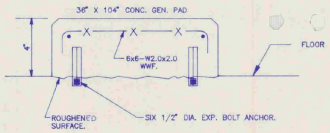
SCALE: 1/4"=1'-0"



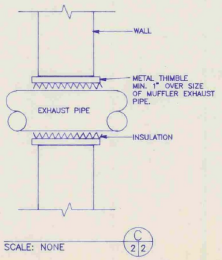
SCALE: NONE



SCALE: NONE



SCALE: NONE



SCALE: NONE

GENERAL NOTES

1. NEW TANK IS BE 550 GAL. MINIMUM; DOUBLE WALL FIBERGLASS. PROVIDED NEW PIPING FROM TANK TO GENERATOR ROOM
2. BACKFILLED ENTIRE EXCAVATION, EXCEPT WHERE OTHERWISE NOTED, WITH 1/8" TO 3/8" PEA GRAVEL.
3. CONCRETE HAD:
   A. MIN. COMPR. STR. OF 3000 PSI AT 28 DAYS
   B. 5-7% ENTRAINED AIR.
   C. FLOAT FINISH FOR SLABS, EXCEPT PAVEMENT
   D. CONFORMANCE TO AC1301
   RECEIVED BURLAP DRAG FINISH.
4. CUT AND PATCHED EXISTING CONCRETE WALLS AS REQUIRED FOR NEW PIPING.
5. DISSIMILAR METAL PIPE CONNECTIONS MADE BY DIELECTRIC UNIONS.
6. FUEL OIL SUPPLY & RETURN IS BE COPPER TUBING TYPE K.
7. FILL PIPE IS SCHED. 40 GALV. STEEL

LEGEND

—FOS—	FUEL OIL SUPPLY
—FOR—	FUEL OIL RETURN
—F—	FILL PIPE
—V—	VENT PIPE
—TG—	TANK GAUGE LINE
—HM—	HYDROSTATIC MONITORING

I HEREBY CERTIFY THAT ALL WORK INDICATED ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED Richard S. Fifield

DATE 10/4/89

"AS BUILT"

ENGINEER/ARCHITECT

STATE OF VERMONT RICHARD S. FIFIELD No. 3519 REGISTERED ENGINEER

REV	DESCRIPTION	BY	CHKD BY	DATE
1	REVISED "AS-BUILT"	R.F.	G.L. CHIPP	

PROJECT NO. 37717

Hoyle, Tanner & Associates, Inc. HTA engineers architects planners Five Commerce Park North · Bedford NH 03102 · (603) 669-5555 Companies

SCALE AS SHOWN | DATE JUNE, 1988 | DES. BY JDC | DR. BY WLD | CHKD. BY DGF

DO NOT SCALE DRAWING

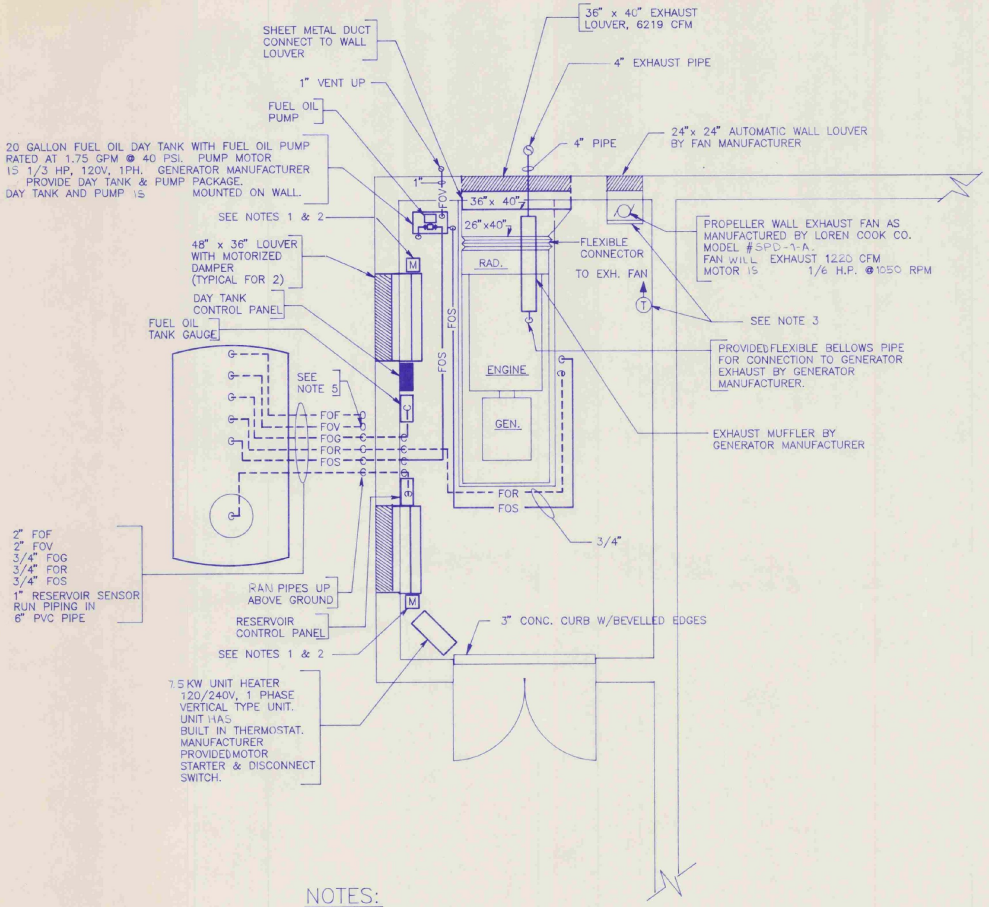
BURLINGTON INTERNATIONAL AIRPORT
SOUTH BURLINGTON, VERMONT
INSTALL EMERGENCY GENERATOR

FUEL TANK INSTALLATION & MISC. DETAILS

ARCHITECTURAL/STRUCTURAL

DRAWING NO. 3

SHEET 3 OF 7



NOTES:

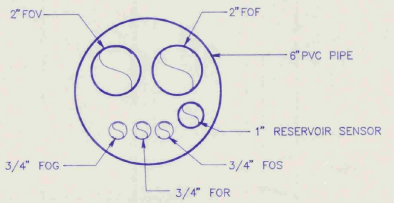
1. MOTOR OPERATOR FOR DAMPER IS NORMALLY OPEN. DAMPER WILL BE CLOSED UNDER NORMAL OPERATION. PROVIDED SPRING RETURN ON MOTOR OPERATOR TO OPEN DAMPER WHEN THERE IS A POWER FAILURE.
2. MOTOR OPERATOR FOR DAMPER IS INTERLOCKED WITH THE WALL EXHAUST FAN TO OPEN WHEN EXHAUST FAN STARTS.
3. ELECTRIC WALL THERMOSTAT WILL ENERGIZE EXHAUST FAN WHEN SPACE TEMPERATURE IS 90° F OR ABOVE.
4. ALL LOUVERS HAVE BIRD SCREENS AND INSECT SCREENS.
5. FUEL OIL VENT RISES 12'-0" ABOVE FINISHED FLOOR.

VENTILATION – PIPING PLAN

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

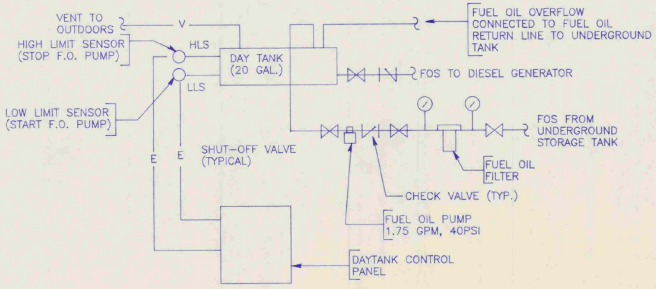
LEGEND

	PIPE TURNED UP
	PIPE TURNED DOWN
	WALL LOUVER
M	MOTORIZED DAMPER
BD	BACKDRAFT DAMPER
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOF	FUEL OIL FILL
FOV	FUEL OIL VENT
FOG	FUEL OIL GAUGE



TYPICAL UNDERGROUND PIPING DETAIL

SCALE: NONE



FUEL OIL PIPING SCHEMATIC

SCALE: NONE

I HEREBY CERTIFY THAT ALL WORK INDICATED ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED Richard S. Fuller

DATE 10/1/89

"AS BUILT"

ENGINEER/ARCHITECT

REV	DESCRIPTION	DR BY	CHKD BY	APPD BY	DATE
	REVISED "AS-BUILT"	M.V.	R.F.	G.L.	10/89

PROJECT NO. 37717

Hoyle, Tanner & Associates, Inc. HTA Engineers Architects Planners
Five Commerce Park North Bedford NH 03102 (603) 669-5555

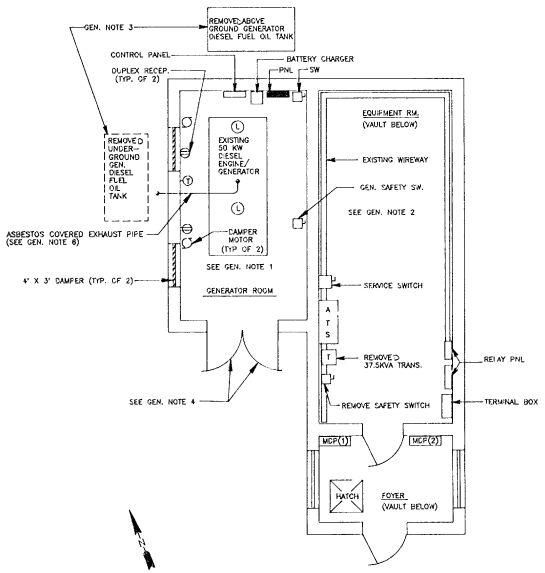
SCALE AS SHOWN | DATE JUNE, 1988 | DES. BY RJR | DR. BY WDJ/JC | CHKD BY DGF

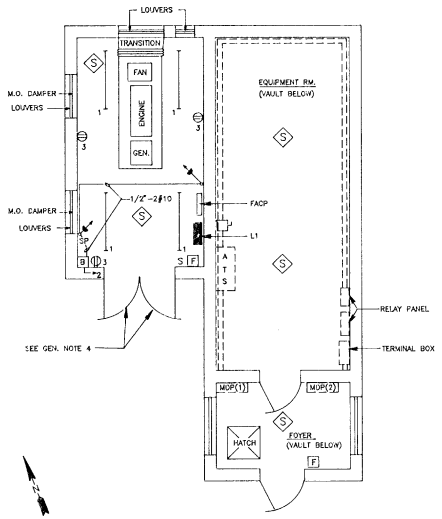
DO NOT SCALE DRAWING

BURLINGTON INTERNATIONAL AIRPORT
SOUTH BURLINGTON, VERMONT
INSTALL EMERGENCY GENERATOR
VENTILATION, PIPING & DETAILS
MECHANICAL

DRAWING NO. 4

SHEET 4 OF 7





GEN. NOTE 3
REMOVED ABOVE GROUND GENERATOR DIESEL FUEL OIL TANK
CONTROL PANEL
BATTERY CHARGER
DUPLEX RECEP. (TYP. OF 2)
PNL
SW
REMOVED UNDER-GROUND GEN. DIESEL FUEL OIL TANK
EXISTING 50 KW DIESEL ENGINE/ GENERATOR
L
T
EQUIPMENT RM. (VAULT BELOW)
EXISTING WIREWAY
GEN. SAFETY SW.
SEE GEN. NOTE 2
ASBESTOS COVERED EXHAUST PIPE (SEE GEN. NOTE 6)
DAMPER MOTOR (TYP OF 2)
SEE GEN. NOTE 1
4' X 3' DAMPER (TYP. OF 2)
GENERATOR ROOM
SERVICE SWITCH
A T S
T
REMOVED 37.5KVA TRANS.
RELAY PNL
REMOVE SAFETY SWITCH
TERMINAL BOX
SEE GEN. NOTE 4
MDP(1)
MDP(2)
HATCH
FOYER (VAULT BELOW)
N

DEMOLITION PLAN

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

LOUVERS
TRANSITION
FAN
ENGINE
GEN.
M.O. DAMPER
LOUVERS
S
1
3
1/2"-2#10
FACP
L1
SP
B
2
F
A T S
EQUIPMENT RM. (VAULT BELOW)
RELAY PANEL
TERMINAL BOX
SEE GEN. NOTE 4
MDP(1)
MDP(2)
HATCH
FOYER (VAULT BELOW)
N

LTG. RECEP. & COMM. PLAN

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

GENERAL NOTES

1. REMOVED EXISTING ENGINE/GENERATOR, PAD, PANEL, BATTERY CHARGE, CONTROL PANEL, LIGHTING FIXTURES, RECEPTACLES, SWITCHES, BRANCH CIRCUITS, DAMPERS, DAMPER MOTORS, CONTROL CONDUIT, FEEDERS AND FEEDER CONDUITS FROM GENERATOR ROOM. (SEE ONE LINE DIAG. SH. 7)
2. REMOVED EXISTING GENERATOR SAFETY SWITCH, TRANSFORMER, FEEDER AND CONDUITS. REMOVE GENERATOR ROOM PANEL FEEDER FROM EXISTING WIRE WAY. SERVICE SWITCH, ATS, MDP (1), MDP (2) AND OTHER AIRFIELD LIGHTING EQUIPMENT NOT SHOWN REMAINED. (SEE ONE LINE DIAG. SH. 7)
3. EXISTING GENERATOR FUEL OIL TANKS, PIPING AND PETROLEUM CONTAMINATED SOIL, REMOVED AND PROPERLY DISPOSED OF IN ACCORDANCE WITH EPA GUIDLINGS AND REGULATIONS CERTIFIED REPORTS OF ROUTING AND FINAL DISPOSAL OF EQUIPMENT.
4. CONTRACTOR REMOVED TWO EXISTING 30" X 84" LOUVERED DOORS. DOOR FRAME REMAINED FOR RE-USE. CONTRACTOR FURNISHED AND INSTALLED TWO NEW FIRE RATED DOORS.
5. WHEN REMOVING THE EXISTING GENERATOR AND CONCRETE PAD, THE EXISTING SYSTEM GROUNDING CONDUCTOR, WAS RECONNECTED TO THE NEW GENERATOR.
6. EXISTING ASBESTOES COVERED EXHAUST PIPE WAS REMOVED AND PROPERLY DISPOSED OF IN ACCORDANCE WITH EPA AND LOCAL AUTHORITIES REGULATIONS. THIS INCLUDES CERTIFIED REPORTS OF ROUTING AND FINAL DISPOSAL OF MATERIAL.
7. ALL CONDUITS WITH 60 HZ POWER CIRCUITS SHALL HAVE A GREEN EQUIPMENT GROUND (EG) CONDUCTOR SIGNAL IN ACCORDANCE WITH THE NEC.
8. REMOVED ASBESTOS CEILING MATERIALS AND INSTALLED NEW AC PLYWOOD CEILING.

MAINS: 100 AMP
☐ MLO
☐ TOP
☐ BOTTOM
☒ SOLID NEUT (ISOLATED)
☒ GND BUS

BUS: ☐ AL ☒ CU
☒ MAIN CKT BKR
☒ TOP
☐ BOTTOM
FR 100
POLES 2
TR 100
CLASS N. A.

MOUNTING:
☐ FLUSH
☒ SURFACE

CHARACTERISTICS
120/240 VOLTS
1 PHASE 3 WIRE

LOADS:

PANEL: L1

REMARKS: SHORT CKT I.C. OF BRKS: 10,000 AMPS. SYM. MIN.

ISOLATED NEUTRAL N — L1 L2 — G GROUND BUS

CKT NO.	CKT BKR POLES	CKT BKR FRAME	CKT BKR TRIP	LOAD DESCRIPTION	WIRE SIZE	COND	COND	WIRE SIZE	LOAD DESCRIPTION	CKT BKR TRIP	CKT BKR FRAME	CKT BKR POLES	CKT NO.
1	1	100	20	ROOM LIGHTING	12AWG	3/4"	3/4"	12AWG	EMERGENCY BATTERY	20	100	1	2
3	1	100	20	ROOM RECEPTACLE	12AWG	3/4"	3/4"	12AWG	M.O. DAMPERS	20	100	1	4
5	1	100	20	ROOM RECEPTACLE	12AWG	3/4"	3/4"	12AWG	BATTERY CHARGER	20	100	1	6
7/9	2	100	30	ENGINE BLOCK HEATER	10AWG	3/4"	3/4"	12AWG	DAY TANK FUEL OIL PUMP	20	100	1	8
							3/4"	12AWG	EXHAUST FAN	20	100	1	10
11	1	100	20	FIRE ALARM CONTROL PANEL	12AWG	3/4"	3/4"	10AWG	UNIT HEATER 7.5 KW	40	100	2	12 /14
13	1	100	20	SPARE									
15	1	100	20	SPARE					SPARE	20	100	1	16
17	1			SPACE					SPARE	20	100	1	18
19	1			SPACE					SPACE			1	20
21	1			SPACE					SPACE			1	22
23	1			SPACE					SPACE			1	24

I HEREBY CERTIFY THAT ALL WORK INDICATED ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED Richard S. Fyfe

DATE 10/9/89

"AS BUILT"

ENGINEER/ARCHITECT

REV.	DESCRIPTION	DR. BY	CHKD. BY	APPD. BY	DATE
	REVISED "AS-BUILT"	MV	R.F.	B.L.	10/89

PROJECT NO. 37717

Hoyle, Tanner & Associates, Inc.
Five Commerce Park North · Bedford, NH 03102 · (603) 669-5555
HTA Companies
engineers architects planners surveyors

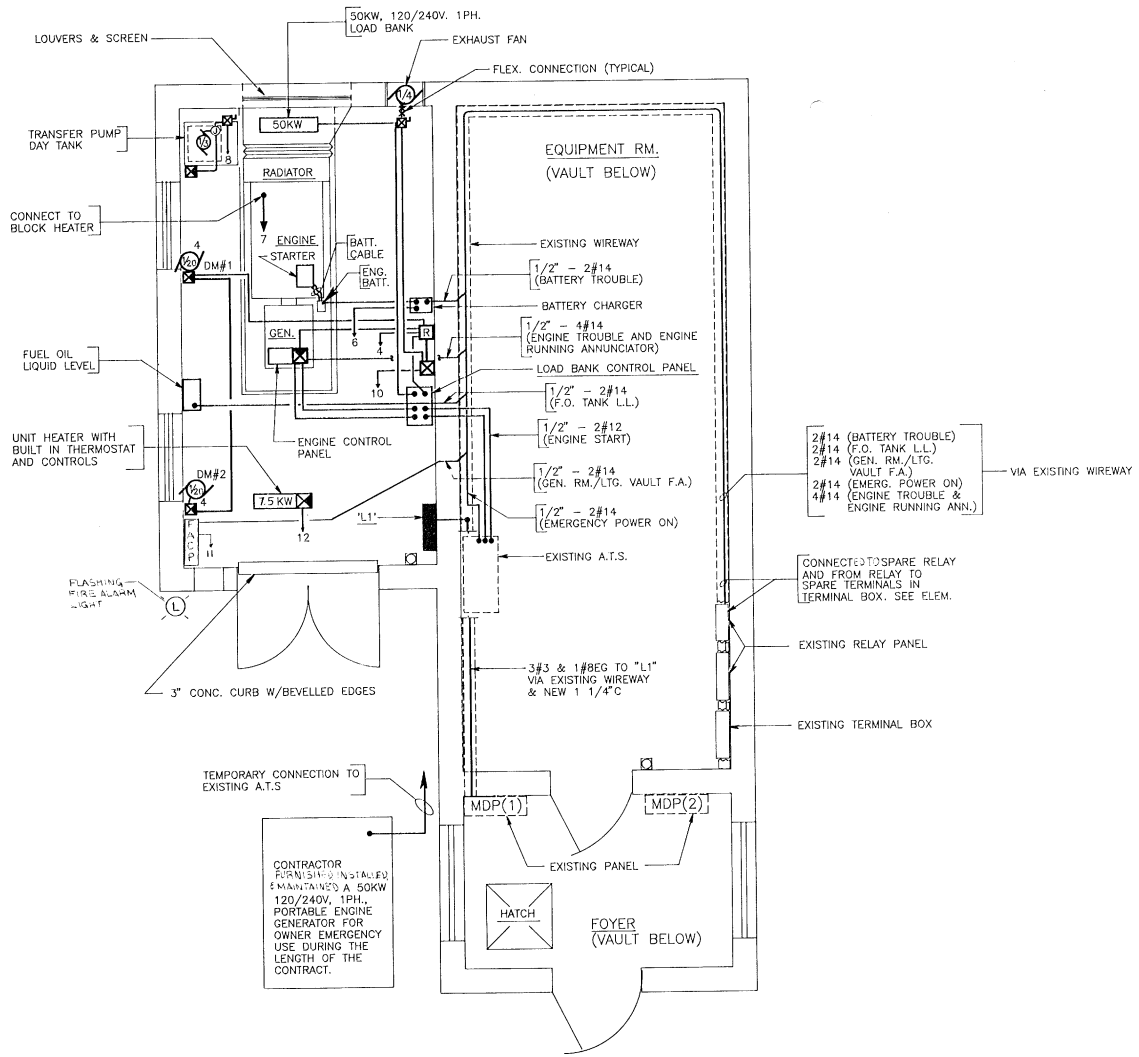
SCALE: AS SHOWN
DATE: JUNE, 1988
DES. BY PAH
DR. BY WD/JO'C
CHKD. BY DGF

DO NOT SCALE DRAWING

BURLINGTON INTERNATIONAL AIRPORT
SOUTH BURLINGTON, VERMONT
INSTALL EMERGENCY GENERATOR
DEMOLITION PLAN –
LTG. & RECP. PLAN
ELECTRICAL

DRAWING NO.
5

SHEET 5 OF 7



POWER PLAN

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

I HEREBY CERTIFY THAT ALL WORK INDICATED ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED Richard S. Fiske

DATE 10/9/01

"AS BUILT"

ENGINEER/ARCHITECT

REV	DESCRIPTION	BY	CK'D	DATE
	REVISED "AS BUILT"	M.V.H.S.L.	DK SHELDRICK	

PROJECT NO. 37717

Hoyle, Tanner & Associates, Inc. HTA
Five Commerce Park North Bedford, NH 03110 (603) 669-3555 Companies

SCALE AS SHOWN | DATE JUNE, 1988 | DES. BY PAH | DR. BY WDJ/JOC | CH'D BY DGF

DO NOT SCALE DRAWING

BURLINGTON INTERNATIONAL AIRPORT
SOUTH BURLINGTON, VERMONT

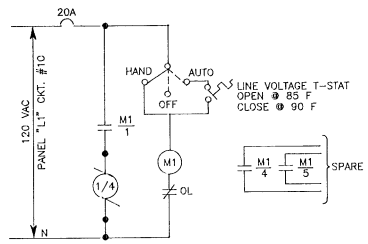
INSTALL EMERGENCY GENERATOR

POWER PLAN

ELECTRICAL

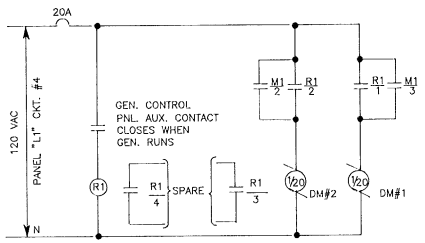
DRAWING NO. 6

SHEET 6 OF 7



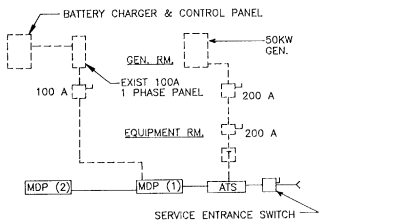
EXHAUST FAN – ELEMENTARY

SCALE: NONE



DAMPER MOTORS – ELEMENTARY

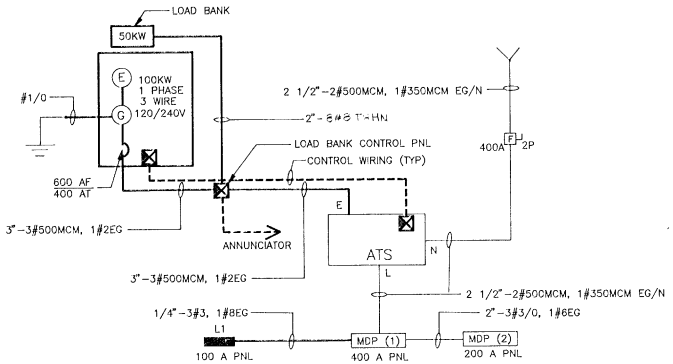
SCALE: NONE



DEMOLITION – ONE LINE

SCALE: NONE

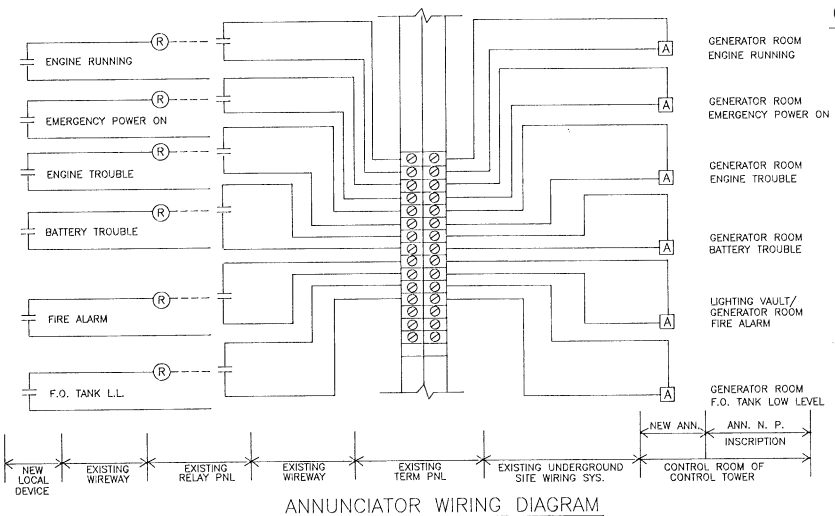
——— EQUIPMENT TO REMAIN
- - - - - EQUIPMENT TO BE REMOVED



ONE LINE

SCALE: NONE

——— EXISTING
——— NEW

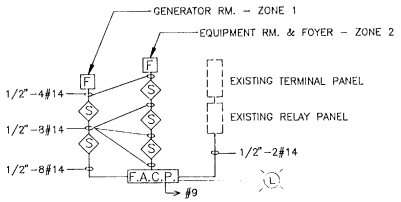


ANNUNCIATOR WIRING DIAGRAM

SCALE: NONE

LEGEND

$\textcircled{D}_3$	DUPLEX RECEPTACLE NEMA CONF. 5-20R. SURFACE MOUNTED 3'-6" AFF. NUMBER DENOTES CIRCUIT NO.
ATS	AUTOMATIC TRANSFER SWITCH
MDP(1)	MAIN DISTRIBUTION PANEL
B	12V EMERGENCY BATTERY UNIT WITH SHELF MOUNTES 7'-0" AFF
	25WATT 12V SEAL BEAM EMERGENCY BATTERY LIGHT. MOUNTED 7'-0" AFF
S	SINGLE POLE SWITCH FOR ROOM LIGHTS. MOUNTED 4'-0" AFF
SP	SINGLE POLE SWITCH FOR EMERGENCY LIGHTS. TOGGLE HANDLE LIGHTS WHEN SWITCH IS OFF. MOUNTED IN A HANDY BOX 5'-0" AFF (UNDER EMERGENCY BATTERY).
	4FT. SURFACE MOUNTED INDUSTRIAL FLUORESCENT LIGHTING FIXTURE WITH PORCELAIN REFLECTOR, END CAPS, 120V HIGH POWER FACTOR BALLAST & TWO F40CW LAMPS.
1/3	A.C. MOTOR – 1/3 INDICATES HORSEPOWER
	MAGNETIC MOTOR STARTER, 600V, 3P, NEMA SIZE 0, IN NEMA TYPE 1 INCLOSURE. WITH H-O-A IN COVER, 120V COIL & OVERLOAD.
	CONTROLS BY EQUIPMENT MANUFACTURER
T	LINE VOLTAGE THERMOSTAT RATED 10A 120V
R1 / 1	CONTACT – NORMALLY OPEN
R	RELAY
R	8" X 8" X 6" NEMA TYPE 1 INCLOSURE CONTAINING RELAY R1 RATED AT 300V, 10A, 4 N.O. CONTACTS, AND 120V COIL.
	MANUAL MOTOR STARTER
FACP	FIRE ALARM CONTROL PANEL-4 ZONE
S	FIRE ALARM SMOKE DETECTOR-PHOTO ELECTRIC TYPE WITH AUDIO BASE.
F	FIRE ALARM MANUAL PULL STATION MOUNT 5'-0" AFF
	STORED PRESSURE HALON 1211 WALL MOUNTED FIRE EXTINGUISHER. MINIMUM RATED 10 B.C.
EG	EQUIPMENT GROUND
N	NEUTRAL
T	TRANSFORMER DRY TYPE
2	HOME RUN TO PANEL L1 NUMERICAL DENOTES CKT. NO.
A	ANNUNCIATOR DROP
	SAFETY SWITCH
G E	ENGINE/GENERATOR SET
L	EXTERIOR FIRE ALARM LIGHT



FIRE ALARM RISER DIAGRAM

SCALE: NONE

I HEREBY CERTIFY THAT ALL WORK INDICATED ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED Richard S. Fiske

DATE 10/4/89

"AS BUILT"

ENGINEER/ARCHITECT

NO.	DESCRIPTION	DR. BY	CHK'D BY	DATE
REV	REVISED "AS-BUILT"	NV	RFG	10/89

PROJECT NO. 37717

Hoyle, Tanner & Associates, Inc. HTA
Five Commerce Park North Bedford, NH 03102 (603) 669-5555 Companies

SCALE AS SHOWN | DATE JUNE, 1988 | DES. BY PAH | DR. BY WDJ/JOC | CHK'D BY DGF

DO NOT SCALE DRAWING

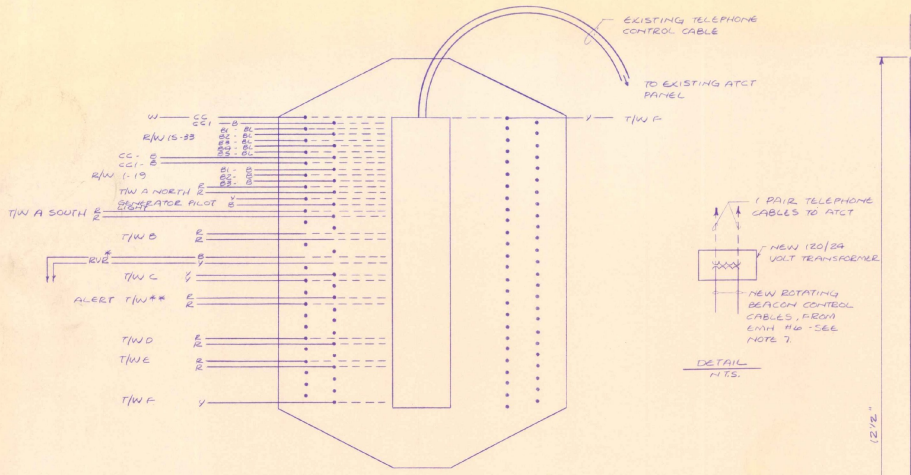
BURLINGTON INTERNATIONAL AIRPORT
SOUTH BURLINGTON, VERMONT
INSTALL EMERGENCY GENERATOR

ONE LINES & ELEMETARIES

ELECTRICAL

DRAWING NO. 7

SHEET 7 OF 7



PANEL #1
TERMINAL STRIP

DETAIL
N.T.S.

PANEL #1 LEGEND

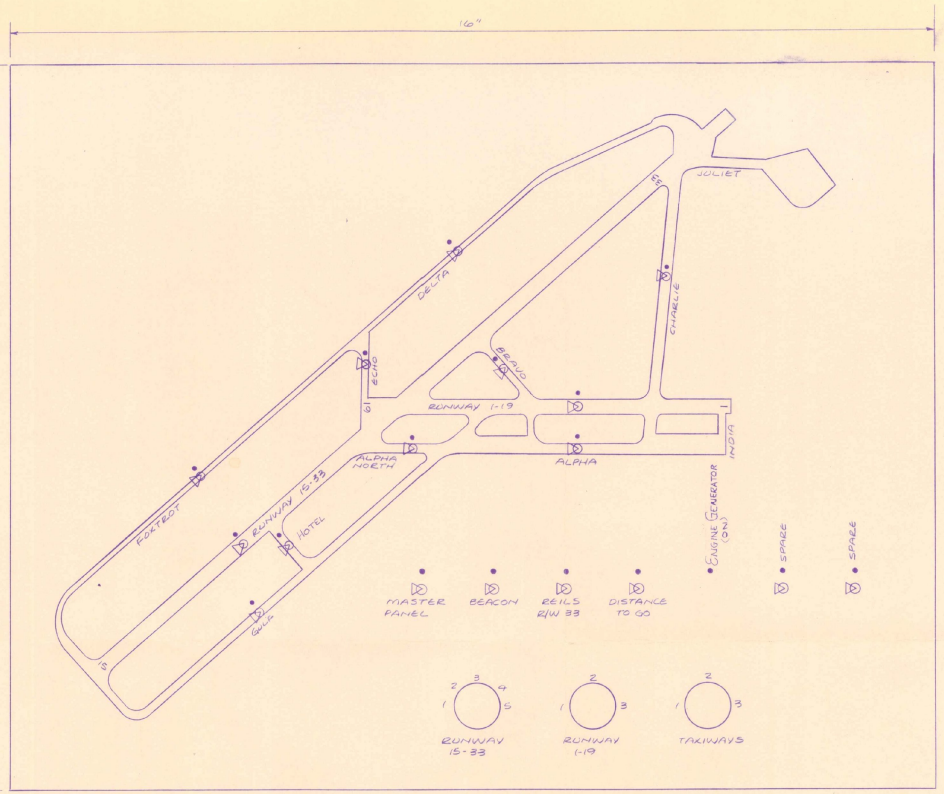
W	WHITE
B	BLUE
Y	YELLOW
R	RED
BL	BLACK
——	EXISTING 1/C #12 CABLES TO PANEL #3
- - -	~~PROPOSED~~ NEW TELEPHONE
-----	CABLES (25PR.) TO NEW
- - -	L-821 PANEL IN NEW ATCT
———	
*RVR	RVR CABLES 1/C #10 ALL OTHER WIRING 1/C #12
**	CIRCUIT NO LONGER IN SERVICE

LEGEND

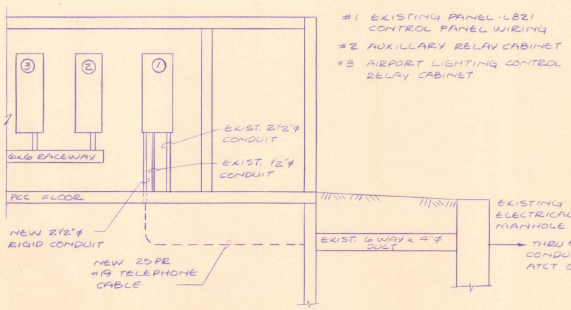
SP, ST TOGGLE SWITCH W/NEON INDICATING LIGHT

3 POSITION ROTARY SWITCH

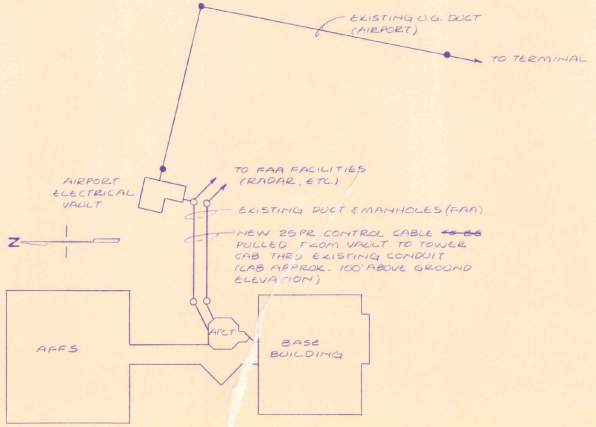
5 POSITION ROTARY SWITCH



NEW L-821 CONTROL PANEL
ACTUAL SIZE



EXISTING ELECTRICAL VAULT WALL
NO SCALE



PANEL NOTES

1. L-821 PANEL ~~TO BE~~ CONFORMS TO FAA SPECIFICATION FOR REMOTE CONTROL LIGHTING PANELS, A.C. 150/5345-3D. PANEL ~~TO BE~~ IS TYPE II, CLASS F, STYLE I.
2. RUNWAY & TAXIWAY LAYOUT ~~TO BE~~ PAINTED ~~OR ETCHED~~ ONTO PANEL PLATE AS SHOWN. AIRPORT LAYOUT TO CONTRAST WITH PANEL BACKGROUND (LAYOUT WHITE WITH BROWN BACKGROUND.)
3. ALL LAYOUT LETTERING ~~TO BE~~ 3/16" HIGH - COLOR BLACK (RUNWAYS) & WHITE (TAXIWAYS).
4. ALL PANEL WIRING ~~TO BE~~ 1/C #18 UNLESS OTHERWISE NOTED.
5. PANEL SWITCHPLATES ~~TO BE~~ ENGRAVED BAKELITE WHITE LETTERING AT LEAST 3/16" ON BLACK BACKGROUND.
6. NEW PANEL ~~TO BE~~ PLACED ON EXISTING CONSOLE IN ATCT CAB.
7. AIRPORT ROTATING BEACON CONTROL CABLES ~~WILL HAVE TO BE~~ INSTALLED FROM TERMINAL ENIH #16 THRU AIRPORT DUCT TO NEW CONTRACTOR IN VAULT.
8. INSTALL NEW SURGE (LIGHTNING) PROTECTION ON INCOMING CONTROL CABLES IN BASEMENT OF ATCT. SURGE PROTECTION DEVICE ~~TO BE~~ SUPPLIED BY FAA - F & E.
9. 120 V SUPPLY FOR INDICATING LAMPS FED AT LIGHTING PANEL LOCATION (FROM TOWER CAB SUPPLY)
10. MASTER SWITCH CONTROL 120 V SUPPLY TO INDICATING LAMPS - ONLY
11. 600 V, 12 PAIR CABLE ASSEMBLY FOR INDICATING LAMPS RUN IN SEPARATE (PARALLEL) CONDUIT FROM VAULT TO L-821 PANEL.

AIP 3-50-0005-13 C/2

"AS BUILT"

I HEREBY CERTIFY THAT ALL WORK REQUIRED BY THIS DRAWING HAS BEEN COMPLETED AS INDICATED

Gerald W. Domaic — 5 MARCH, 1990
AIRPORT ENGINEER — DATE

BURLINGTON INTERNATIONAL AIRPORT
~~AIR~~ AIP 03-2067
SOUTH BURLINGTON, VERMONT

~~AIP~~ AIP 3-50-0005-13
CCO "2 INSTALL NEW L-821 PANEL IN AIR TRAFFIC CONTROL TOWER

DESIGN BY: G.W.D.	DATE: JULY, 1989
DRAWN BY: LRB	SCALE: NONE

Phase III
#090303-01

INITIALS Hanger 4972 DONE

BURLINGTON

VERMONT AGENCY OF TRANSPORTATION
PLANNING DIVISION

HOYLE, TANNER & ASSOCIATES, INC.

Vermont Agency of Transportation
Phase III
#090303-01
INITIALS
Hanger 4976 DONE

Boeing 720
AIP 3-50-0005-13 1988
AIE 03-7007 1988

Phase III
#090303-01

INITIALS Hanger 4977 DONE

BTV - 1990
AIR 03-2067
AIP 3-50-0005-13

VERMONT AGENCY OF TRANSPORTATION
PLANNING DIVISION