

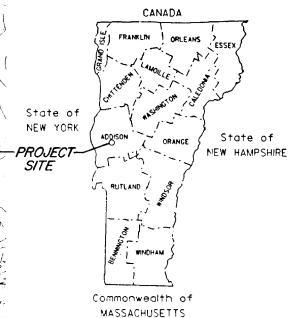
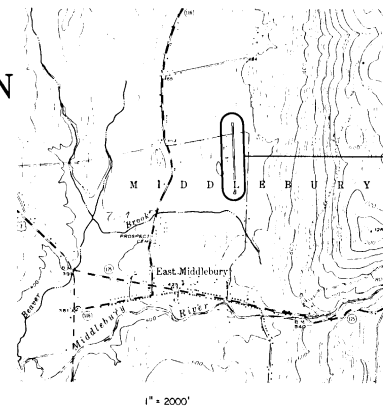
SUMMARY OF QUANTITIES			
BASE BID			
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
203.17	UNCLASSIFIED EXCAVATION	CY	2000.00
203.28	EXCAVATION OF SURFACES & PAVEMENTS	CY	1.50
203.30	PARTY BORROW	CY	1400.00
203.32	GRANULAR BORROW	CY	2040.00
203.40	FINE GRADING SUBGRADE	SY	3140.00
204.20	TYPICAL EXCAVATION	CY	31.00
201.26	THICKNESS OF CRUSHED STONE	CY	805.00
404.65	EMULSIFIED ASPHALT PRIME COAT	TON	551.60
404.25	BITUMINOUS CONCRETE PAVEMENT	TON	30.00
501.20	CONCRETE CLASS C	CY	436.00
507.10	REINFORCING STEEL	LB	211.00
601.0015	10" C.S.P.	EA	5.00
601.0015	10" C.S.P.E.S.	EA	1.00
604.21	PRECAST REINFORCED CONCRETE MH	EA	1.00
604.21	CAST IRON MANHOLE - TYPE D	EA	1.00
613.10	STONE FILL - TYPE I	CY	2.00
635.10	MORILLIZATION	SY	230.00
649.20	GEOTEXTILE FABRIC FOR SILT FENCE	LS	1.00
651.15	SEED	LB	40.00
651.18	FERTILIZER	LB	330.00
651.20	AGRICULTURAL LIMESTONE	TON	1.32
651.25	HAY MULCH	TON	1.32
651.35	TOPSOIL	CY	180.00
675.00	JOINT SEALANT - FUEL RESISTANT	GAL	5.00
1000.00	EXISTING TANK REMOVAL AND BACKFILL	LS	1.00
1001.00	PROPOSED TANK INSTALLATION	LS	1.00
1002.00	AVIATION FUELING CABINET	LS	1.00
1003.00	STRIPING & VALVE SUPPORTS	LS	1.00
1004.00	BALLAST & SURFACE PADS	LP	700.00
1005.00	LEAK DETECTION SYSTEM	LS	1.00
1006.00	TANK TESTING & START UP	EA	1.00
1007.00	TRENCHING AND ELECTRICAL CONDUITS	LS	1.00
1008.00	EXPOSURE PROOF PANEL BOARD	LS	1.00
1009.00	ELECTRICAL EQUIPMENT	LS	1.00
ADDITIVE ALTERNATIVE 1			
203.28	EXCAVATION OF SURFACES & PAVEMENTS	CY	1.00
404.25	BITUMINOUS CONCRETE PAVEMENT	TON	114.00
404.65	EMULSIFIED ASPHALT	TON	32.00

STATE OF VERMONT AGENCY OF TRANSPORTATION

PROPOSED IMPROVEMENT TOWN OF MIDDLEBURY COUNTY OF ADDISON

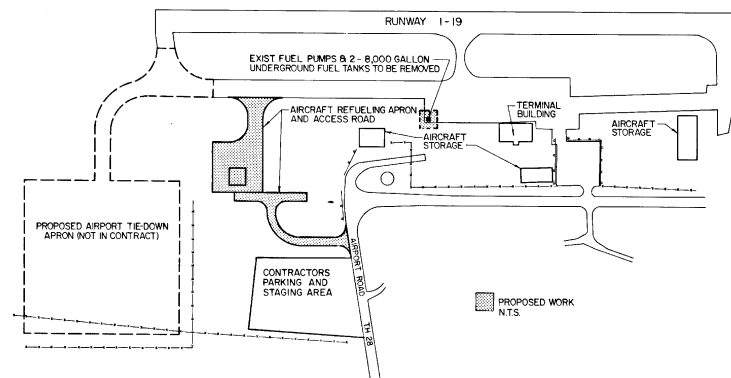
MIDDLEBURY STATE AIRPORT AVGAS FUELING SYSTEM

AIR 03-2069
JULY 1990



LEGEND

- BORING LOCATION
- EXISTING CONTOURS
- PROP CORRUGATED STEEL PIPE (C.S.P.)
- C.S.P. END SECTION (V.A.O.T. STANDARD D-4)
- STONE FILL OUTLET PROTECTION



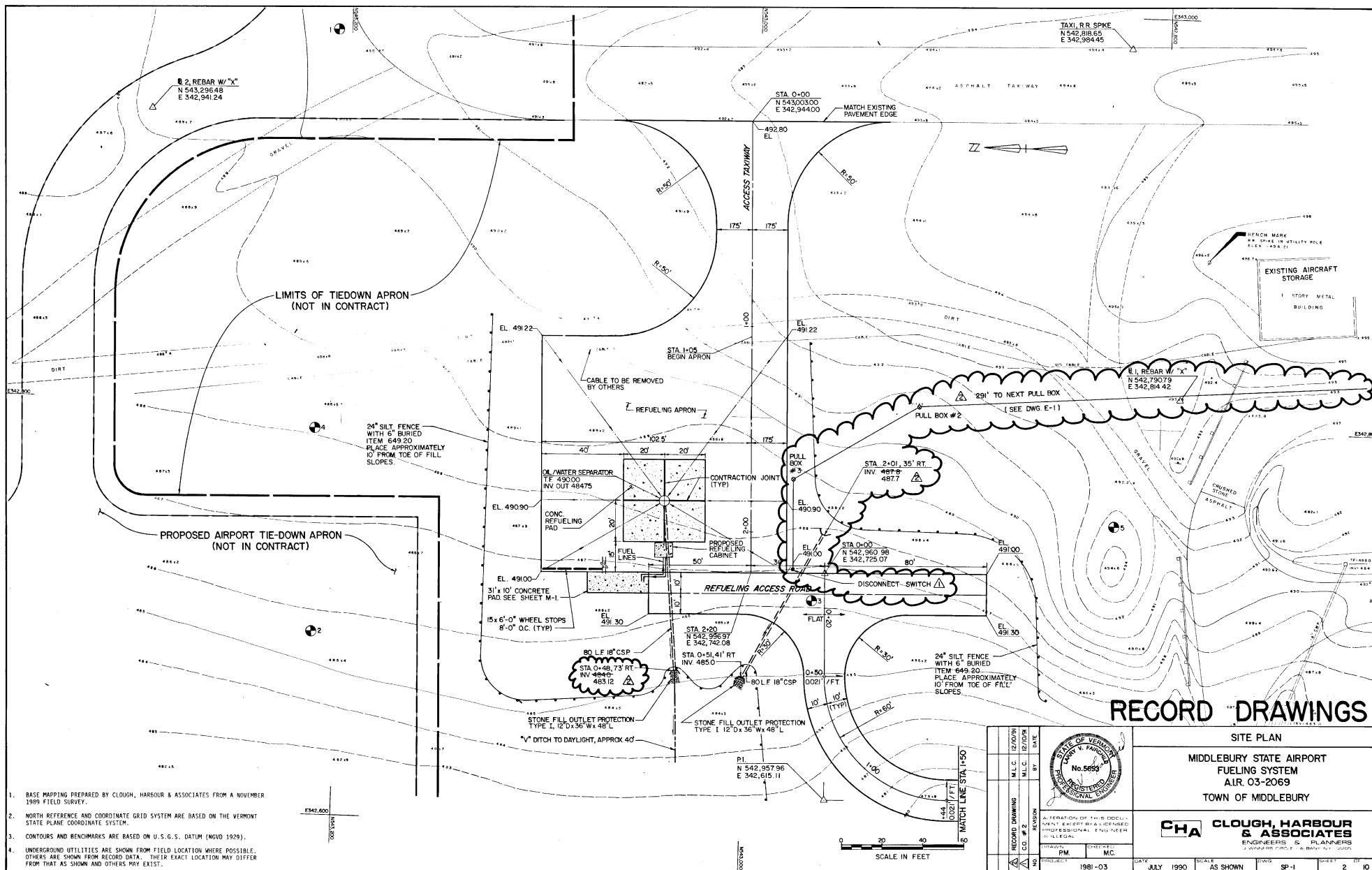
INDEX OF SHEETS		
TITLE	DATE	DRAWING NO.
TITLE SHEET	JULY 1990	-
SITE PLAN	JULY 1990	SP-1
SITE PLAN	JULY 1990	SP-2
TYPICAL SECTIONS	JULY 1990	TS-1
PROFILES	JULY 1990	PF-1
DETAILS	JULY 1990	D-1
APRON CROSS SECTIONS	JULY 1990	CS-1
ACCESS ROAD CROSS SECTIONS	JULY 1990	CS-2
STRIPING PLAN	JUNE 1991	S-1
TANK AND REFUELING CABINET PLAN	JULY 1990	M-1
ELECTRICAL PLAN	JULY 1990	E-1

RECORD DRAWINGS

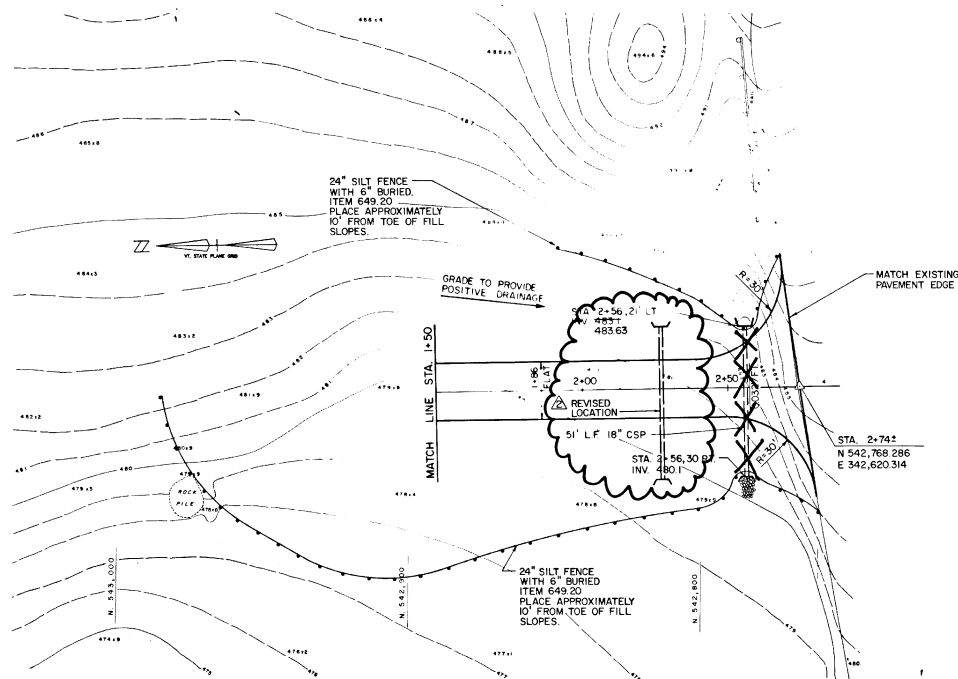
		CLOUGH, HARBOUR & ASSOCIATES ENGINEERS & PLANNERS			
REV. NO.	DATE	DESCRIPTION	REV. NO.	DATE	DESCRIPTION
1	12.10.91	CHANGE ORDER # 2			
2	12.10.91	RECORD DRAWING			

C.H.A. PROJECT NO. 1981-03

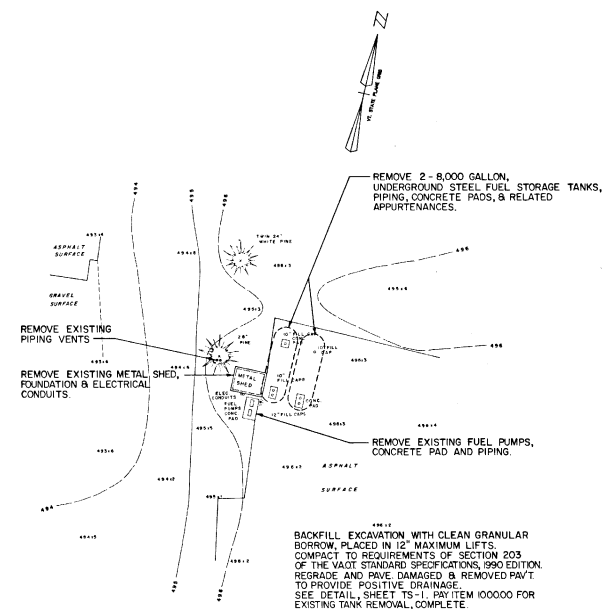




1. BASE MAPPING PREPARED BY CLOUGH, HARBOUR & ASSOCIATES FROM A NOVEMBER 1989 FIELD SURVEY.
2. NORTH REFERENCE AND COORDINATE GRID SYSTEM ARE BASED ON THE VERMONT STATE PLANE COORDINATE SYSTEM.
3. CONTOURS AND BENCHMARKS ARE BASED ON U.S.G.S. DATUM (NGVD 1929).
4. UNDERGROUND UTILITIES ARE SHOWN FROM FIELD LOCATION WHERE POSSIBLE. OTHERS ARE SHOWN FROM RECORD DATA. THEIR EXACT LOCATION MAY DIFFER FROM THAT AS SHOWN AND OTHERS MAY EXIST.



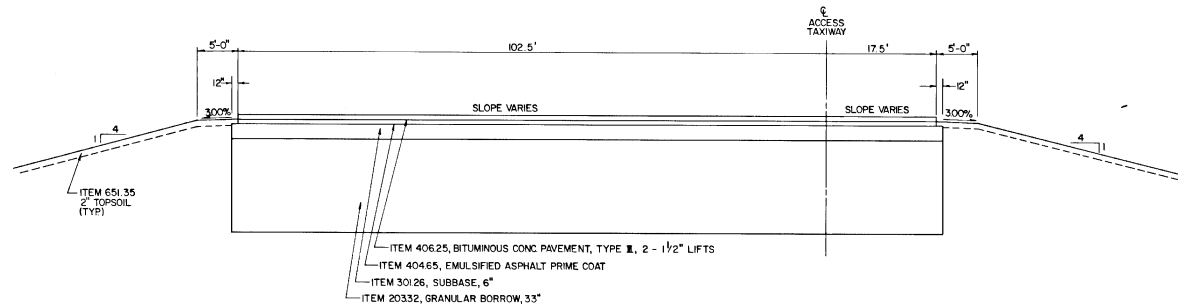
REFUELING ACCESS ROAD INTERSECTION
SCALE 1" = 20'



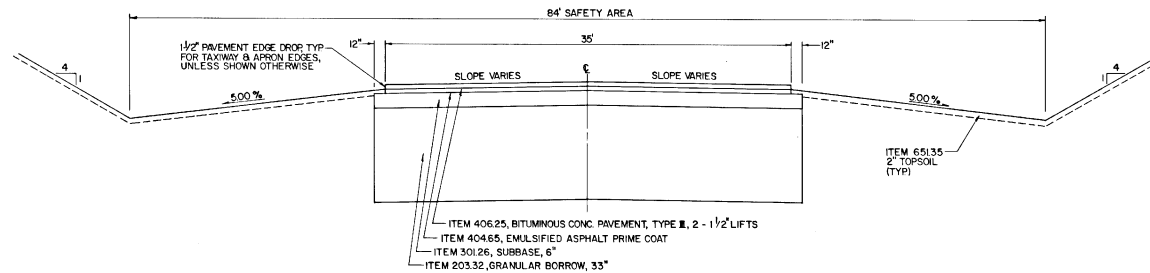
EXISTING STORAGE TANK REMOVAL PLAN
SCALE 1" = 20'

RECORD DRAWINGS

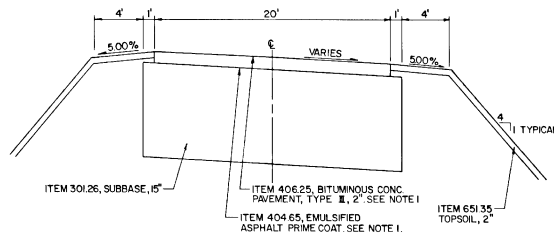
SITE PLAN MIDDLEBURY STATE AIRPORT FUELING SYSTEM AIR 03-2069 TOWN OF MIDDLEBURY	
CLOUGH, HARBOUR & ASSOCIATES ENGINEERS & PLANNERS 3 WINDMILL CIRCLE, ALBANY, N.Y. 12208	
DATE: 12/10/91 BY: M.L.C. CHECKED: M.C. PROJECT: 1981-03	STATE OF VERMONT PROFESSIONAL ENGINEER No. 5553 EXPIRATION DATE: 12/31/92
SCALE: AS SHOWN SHEET: 3 OF 10	DATE: JULY 1990 SCALE: AS SHOWN SHEET: 3 OF 10



AIRCRAFT REFUELING APRON
NO SCALE



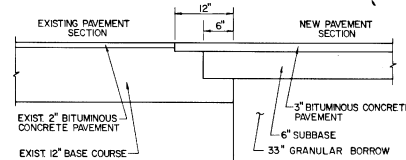
ACCESS TAXIWAY
NO SCALE



ACCESS ROAD
NO SCALE

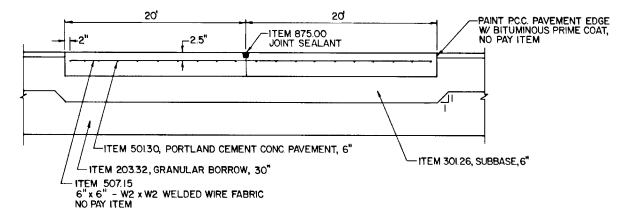
NOTES:

1. ADDITIVE ALTERNATIVE 1 INCLUDES THE ASPHALT PRIME COAT AND BITUMINOUS CONCRETE PAVEMENT FOR THE REFUELING ACCESS ROAD.
2. ADDITIVE ALTERNATIVE 1 INCLUDES SAWCUTTING AND REMOVAL OF PAVEMENT FOR THE REFUELING ACCESS ROAD INTERSECTION.



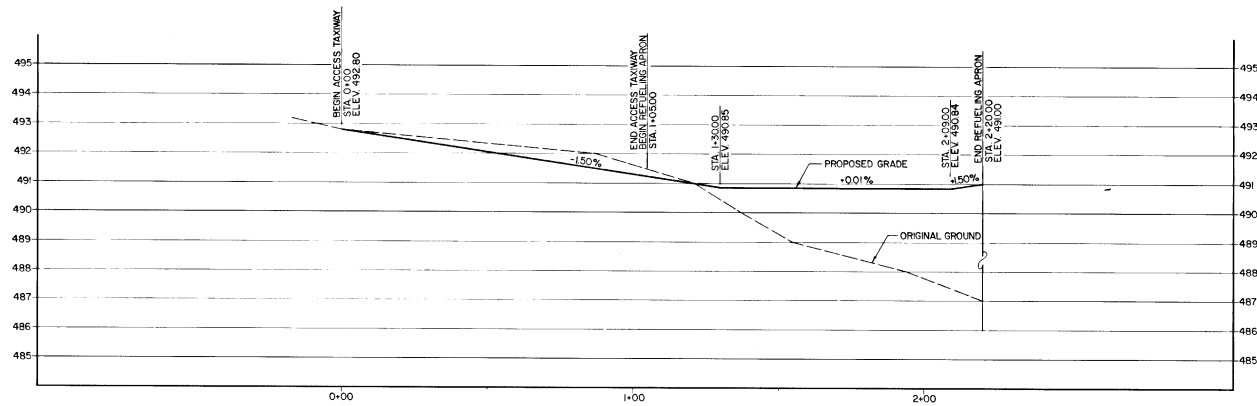
VERTICAL SAWCUT EXISTING PAVEMENT SECTION 12" BACK AND PAINT SAWCUT WITH BITUMINOUS PRIME COAT, NO PAY ITEM. SEE NOTE 2

PAVEMENT CONNECTION DETAIL
NO SCALE

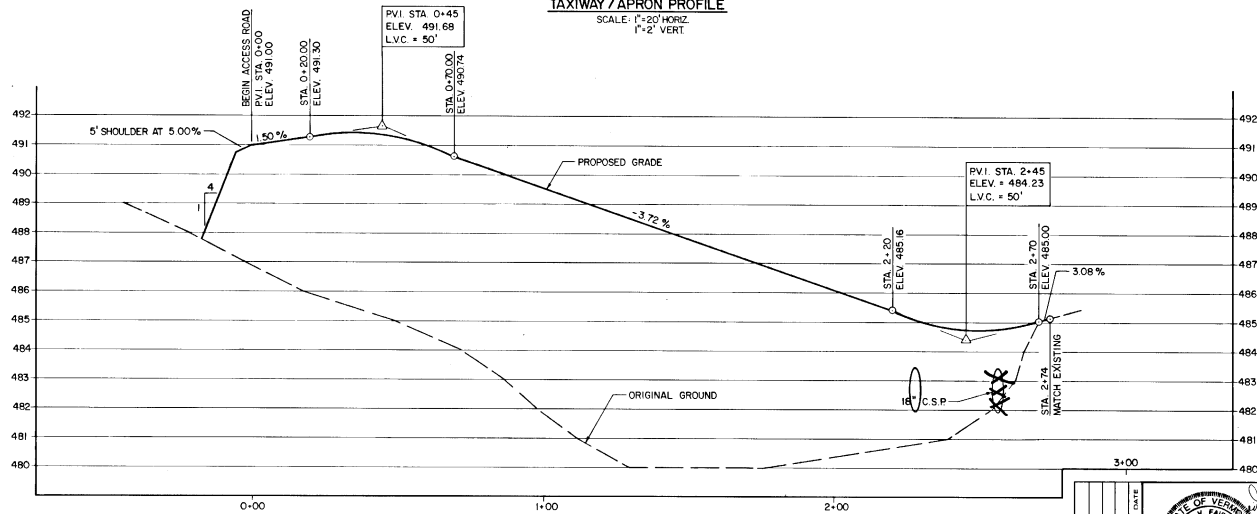


CONCRETE REFUELING PAD DETAIL
NO SCALE

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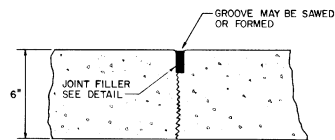
TAXIWAY / APRON PROFILE
SCALE: 1"=20' HORIZ.
1"=2' VERT.



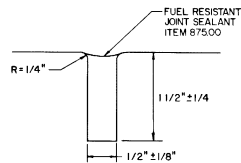
REFUELING ACCESS ROAD PROFILE
SCALE: 1"=20' HORIZ.
1"=2' VERT.

RECORD DRAWINGS		DATE		BY		STATE OF VERMONT No. 8553 REGISTERED PROFESSIONAL ENGINEER		PROFILES	
PROJECT		1981-03		DATE		JULY 1990		MIDDLEBURY STATE AIRPORT FUELING SYSTEM AIR. 03-2069 TOWN OF MIDDLEBURY	
DRAWN BY		PM		CHECKED BY		MC		CHA CLOUGH, HARBOUR & ASSOCIATES ENGINEERS & PLANNERS 3 WARDEN CIRCLE - ALBANY, N.Y. 12205	
SCALE		AS SHOWN		DWG		PF-1		SHEET 5 OF 10	

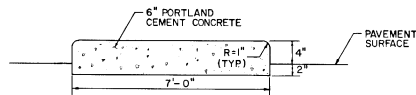
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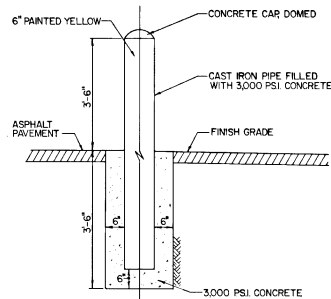
CONTRACTION JOINT DETAIL
NO SCALE



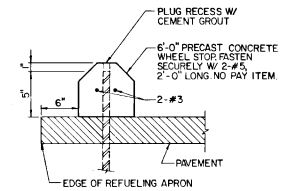
JOINT FILLER DETAIL
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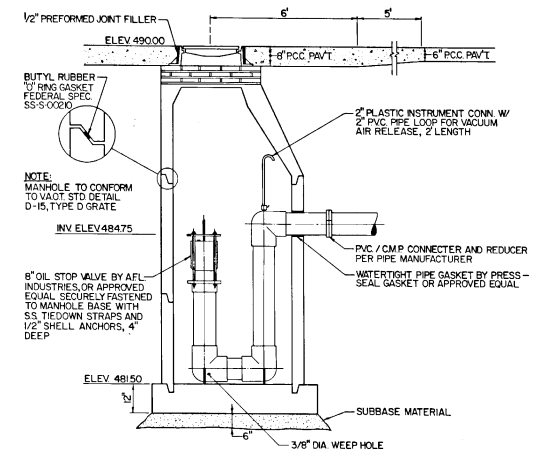
FUEL CABINET PAD DETAIL
NO SCALE



BOLLARD DETAIL
NO SCALE



CONCRETE WHEEL STOP DETAIL
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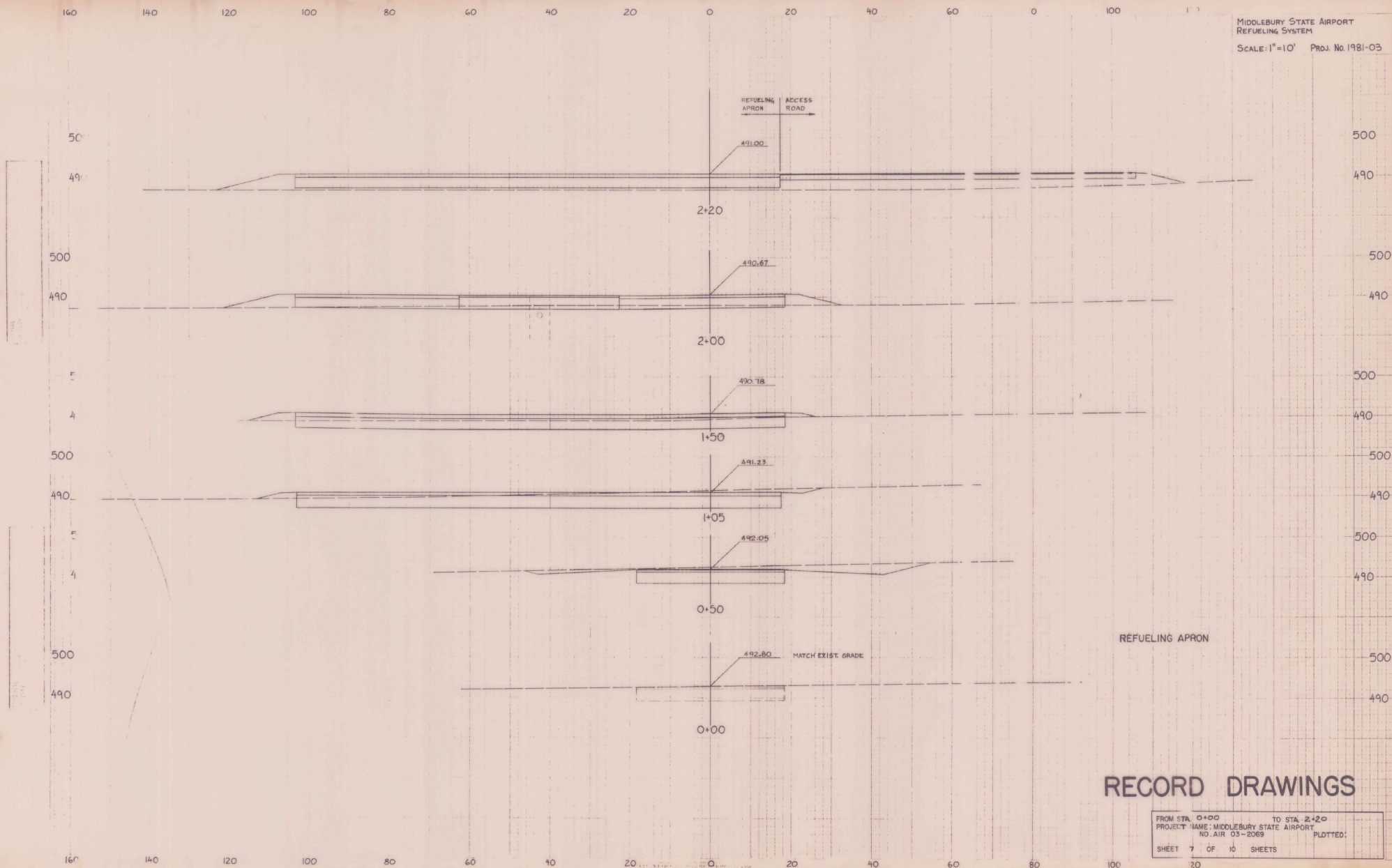


OIL / WATER SEPARATOR
NO SCALE

RECORD DRAWINGS

DATE 1981-03		REVISION 1		DRAWN PM		CHECKED MC		DATE JULY 1990		SCALE AS SHOWN		DRAWN D-1		SHEET 6 OF 10	
STATE OF VERMONT JAMES F. HARRIS No. 5553 REGISTERED PROFESSIONAL ENGINEER				DETAILS MIDDLEBURY STATE AIRPORT FUELING SYSTEM AIR 03-2069 TOWN OF MIDDLEBURY											
CLOUGH, HARBOUR & ASSOCIATES ENGINEERS & PLANNERS 300 W. MAIN ST. - ALBANY, N.Y. 12206															

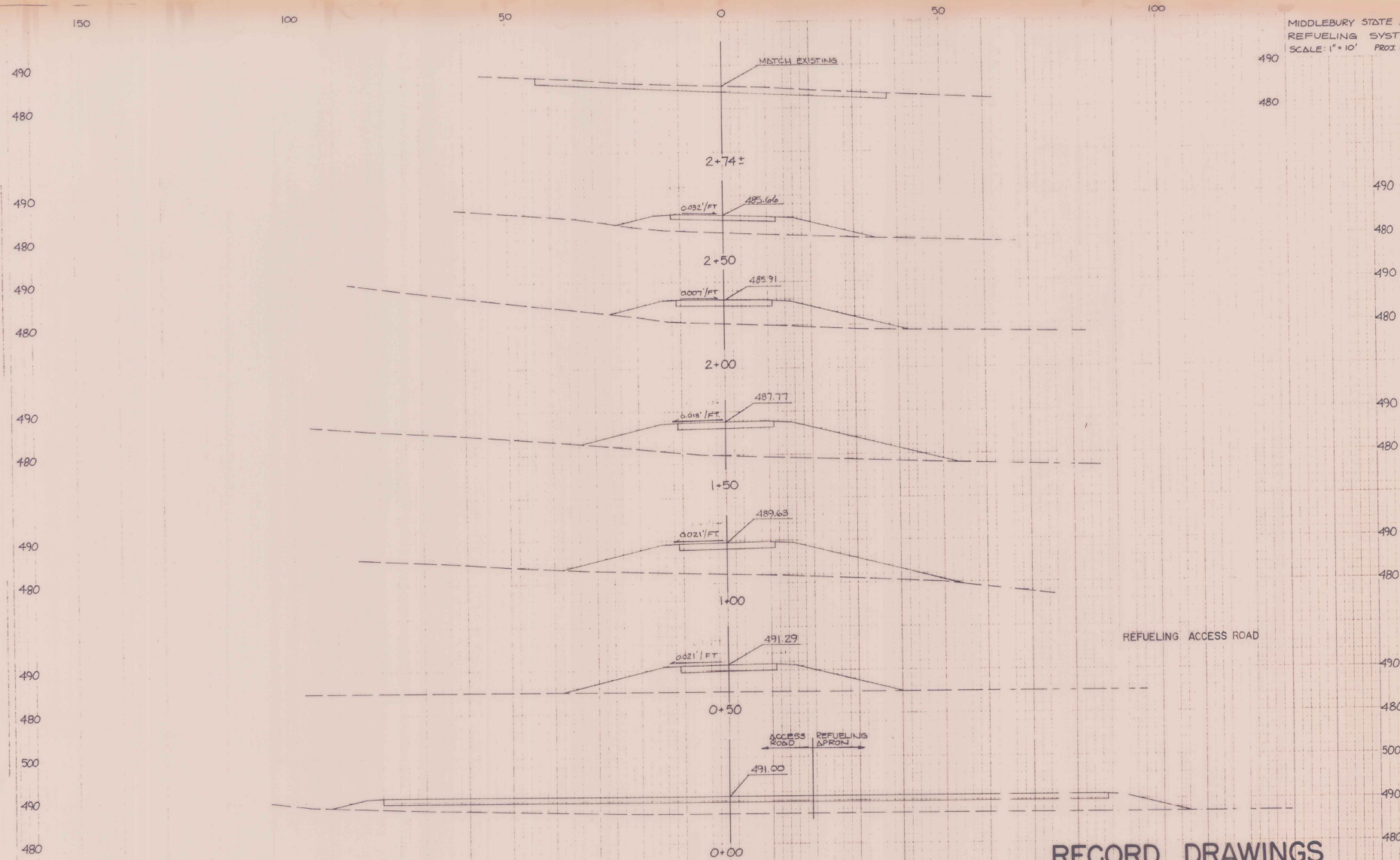
MIDDLEBURY STATE AIRPORT
REFUELING SYSTEM
SCALE: 1"=10' PROJ. No. 1981-03



RECORD DRAWINGS

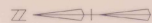
FROM STA. 0+00 TO STA. 2+20
PROJECT NAME: MIDDLEBURY STATE AIRPORT
NO. AIR 03-2089 PLOTTED:
SHEET 7 OF 10 SHEETS

MIDDLEBURY STATE AIRPORT
REFUELING SYSTEM
SCALE: 1" = 10' PROJ. NO. 1981-03



RECORD DRAWINGS

FROM STA. 0+00 TO STA. 2+74
PROJECT NAME: MIDDLEBURY STATE AIRPORT
NO. AIR 03-2089 PLOTTED:
SHEET 9 OF 10 SHEETS



TIE INTO EXISTING
6" STRIPING

TIE INTO EXISTING
6" STRIPING

R=75'

R=75'

6" CENTERLINE STRIPING

R=50'

R=30'

R=40'

R=40'

- NOTES
1. ALL STRIPING SHALL BE 6 INCH YELLOW PAINT CONFORMING TO VDOT STANDARD SPECIFICATION SECTION 708.08 FOR REGULAR DRY YELLOW TRAFFIC PAINT.
 2. CONTRACTOR SHALL COORDINATE STRIPING WITH AIRPORT PERSONNEL TO INSURE THAT AIRCRAFT DO NOT TAXI ACROSS THE STRIPING BEFORE IT DRIES.
 3. CONTRACTOR SHALL APPLY APPROXIMATELY 600 L.F. OF CENTERLINE STRIPING.

RECORD DRAWINGS

STRIPING PLAN

MIDDLEBURY STATE AIRPORT
FUELING SYSTEM
A.I.R. 03-2069
TOWN OF MIDDLEBURY

CHA CLOUGH, HARBOUR
& ASSOCIATES
ENGINEERS & PLANNERS
25 AVIATION RD. - ALBANY, N.Y. 12205



ALTERATION OF THIS DOCUMENT
BY ANY OTHER THAN THE
REGISTERED PROFESSIONAL ENGINEER
IS ILLEGAL

DESIGNED BY: PM
CHECKED BY: MC

PROJECT: 1981-03

DATE: JUNE 1991

SCALE: AS SHOWN

CONV: S-1

SHEET: 8A

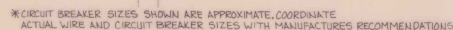
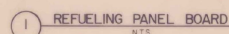
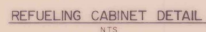
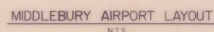
OF: 10

0 20 40 60
SCALE IN FEET

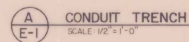


- URGENT.
IF THE LEAK DETECTION
ALARM OR LIGHT GOES
OFF, CALL THE FOLLOWING
PHONE NUMBER COLLECT
882-2657

RECORD DRAWINGS NO. 10 DATE JULY 1990		M.C. # 873 DATE JULY 1990 STATE OF VERMONT NO. 8963 PROFESSIONAL ENGINEER		TANK AND REFUELING CABINET PLAN			
ALLOCATION OF THIS DOCUMENT, EXCEPT BY A LICENSED PROFESSIONAL ENGINEER, IS ILLEGAL.		MIDDLEBURY STATE AIRPORT FUELING SYSTEM A.I.R. 03-2069 TOWN OF MIDDLEBURY					
PROJECT 1988-03		CHA CLOUGH, HARBOUR & ASSOCIATES ENGINEERS & PLANNERS 3 WINNERS CIRCLE, AUSTIN, N.J. 07205 / 513-453-4500		SCALE AS SHOWN		SHEET M-1	
DATE JULY 1990		DATE JULY 1990		SHEET M-1 OF 4			



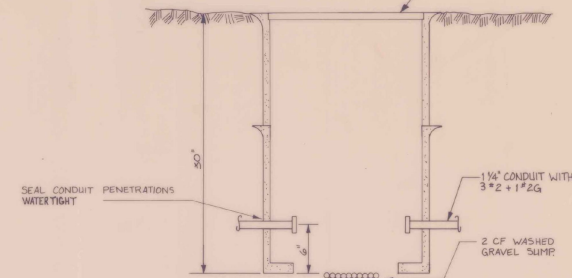
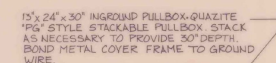
PANEL BOARD SCHEDULE (SEE NOTE 2)



- LEGEND
- \$ LIGHT SWITCH CLASS I ... DIV I
X INCANDESCENT LIGHT FIXTURE
CLASS I ... DIV I
⊗ CONCRETE INGROUND PULLBOX



1. PROVIDE 3" x 12" x 16' FROM EXISTING PANELBOARD IN TERMINAL BUILDING TO NEW REFUELING PANELBOARD AT FUEL PUMP SITE
PUMP 240V, 2P, 50A, CIRCUIT BREAKER IN EXISTING PANELBOARD FOR FEEDER CIRCUIT BREAKER. SMALL MATCH EXISTING PANELBOARD APPROXIMATE LENGTH OF RUN IS 70'
2. VERIFY SPECIFICATIONS FOR FUEL PUMP AND REEL MOTOR COORDINATE WITH PANELBOARD CIRCUIT BREAKERS BEFORE INSTALLING TO ENSURE PROPER MATCH OF CIRCUIT PROTECTION
3. PROVIDE ALL NECESSARY POWER AND CONTROL WIRING PER MANUFACTURERS RECOMMENDATIONS AND THE LATEST ISSUE OF THE NATIONAL ELECTRICAL CODE, FOR HOSE REEL MOTOR AND FUEL PUMP MOTOR INSTALLATION. PROVIDE ALL REQUIRED EQUIPMENT (WIRING DEVICES, CONDUITS, CABLES, FUSES, CIRCUIT TRANSFORMERS, ETC.) TO INSURE FULL OPERATION OF MOTORIZED EQUIPMENT AND ELECTRICAL DEVICES, FUSES SHALL BE SIZED TO PROTECT EQUIPMENT FROM OVERLOAD AND SHORT CIRCUIT.
4. PROPERLY SEAL AROUND ALL EXTERIOR CONDUIT PENETRATIONS IN BUILDINGS TO ENSURE WEATHERTIGHT CONDITIONS.
5. PROVIDE UNIVERSAL THREADED AGISST 55FRD, IN 6"x6"x4" EXPLOSION PROOF ENCLOSURE THRESH SHALL BE INSTALLED TO ALLOW REFUELING PUMP TO OPERATE WITHOUT OWNER INTERFERENCE. 2-POSITION PUSHBUTTONS FOR FUELING RESET SWITCH SHALL BE INSTALLED TO RESET THRESH SO THAT REFUELING PUMP MAY OPERATE FOR SAME OWNER SPECIFIED TIME INTERVAL. COORDINATE WITH EXISTING TIMING AND SEQUENCE LOGIC. PROVIDE 2-POSITION FUSELIGN FUEL PUMP CONTROL CIRCUIT PROVIDE ALL WIRING, CONDUIT, FUSES, CIRCUIT TRANSFORMER, ETC., AS NECESSARY FOR OPERATION AS SPECIFIED ABOVE. PROVIDE PLASTIC LAMINATED NAMEPLATE EXPLAINING TIMING AND RESET SEQUENCE AND INSTALL PER OWNERS REQUIREMENTS.



2 INGROUND PULLBOX
NTS

		12/2/79		12/2/79		DATE				ELECTRICAL PLAN MIDDLEBURY STATE AIRPORT FUELING SYSTEM TOWN OF MIDDLEBURY			
		M.L.C.		M.L.C.		BY							
RECORD DRAWINGS		CHANGE ORDER # 2		REVISION		ALTERATION OF THIS DOCUMENT, EXCEPT BY A LICENSED PROFESSIONAL ENGINEER IS ILLEGAL.				 Clough, Harbour & Associates ENGINEERS 3 WILKINS CIRCLE ALBANY N.Y. 12205 518-453-6500			
NO.		PROJECT		DATE		DRAWN N.E. / J.C.							
		1981		MAY 1980		3		SHEET		OF			
				E-1		SHOW		END		12/2/81 518-453-6500			
								12/2/81		518-453-6500			

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