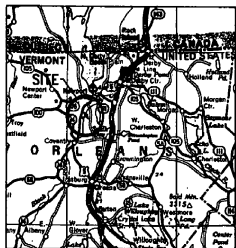


Ellen Kemm
 Director of Finance and Administration
 or Duty Authorized Agent

Scott's Construction Inc. 3744 S.E. Camp
 Contractor

[Signature]
 Signature
MEB:EL

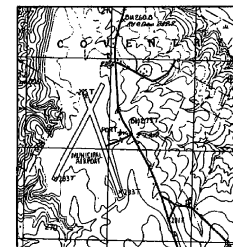


LOCATION MAP
 APPROX. SCALE: 1" = 5 MILES

CONTRACT PLANS
 THESE PLANS DO NOT REFLECT
 CHANGES MADE ON THE PROJECT.

NEWPORT STATE AIRPORT COVENTRY, VERMONT RECONSTRUCTION OF RUNWAY 18-36, INSTALLATION OF RUNWAY AND TAXIWAY LIGHTS AND INSTALLATION OF AIRFIELD SIGNS

AIP NO. 3-50-0013-04
 EA NO. 043142



VICINITY MAP
 APPROX. SCALE: 1"=2000'

SUMMARY OF AIP QUANTITIES

VAOT ITEM#	DESCRIPTION	UNIT	QUANTITIES	
			EST.	AS BUILT
201.10	CLEARING & GRUBBING (PLUS INDIVIDUAL TREES AND STUMPS)	L.S.	1	1
203.18	EXCAVATION	C.Y.	4,200	
204.20	TRENCH EXCAVATION OF EARTH	C.Y.	12,800	
301.35	SUBBASE OF DENSE GRADED CRUSHED STONE(MOD)(P-184)	C.Y.	3,700	
404.25	TAR EMULSION " (MOD)(P-603)	GAL.	8,800	
406.80	PRICE ADJUSTMENT ASPHALT CEMENT (N.A.B.)	L.S.	1	
601.085	12" REINFORCED CONCRETE PIPE, TYPE III	L.F.	1,750	
601.085	12" REINFORCED CONCRETE PIPE, TYPE III	L.F.	850	
601.086	24" REINFORCED CONCRETE PIPE, TYPE IV	L.F.	2,700	
604.10	CEMENT RUBBLE MASONRY HEADWALL	C.Y.	8	
604.10	CONCRETE CATCH BASIN W/CAST IRON GRATE	EACH	18	
604.11	CONCRETE MANHOLE W/CAST IRON COVER	EACH	2	
604.21	PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON COVER (MOD) (0-752)	EACH	1	
604.40	CHANGING ELEVATIONS OF D.I.C.B. OR MH	EACH	3	
606.10	6" PERFORATED UNDERDRAIN	L.F.	10,500	
606.20	6" UNDERDRAIN CARRIER PIPE	L.F.	150	
606.90	UNDERDRAIN RISEP	EACH	28	
606.95	UNDERDRAIN FLUSHING BASIN	EACH	28	
613.16	REPAIR LIGHT TYPE	C.Y.	100	
631.10	FIELD OFFICE - ENGINEERS	L.S.	1	
631.16	TESTING EQUIPMENT - CONCRETE	L.S.	1	
631.17	TESTING EQUIPMENT - BITUMINOUS	L.S.	1	
631.25	FIELD OFFICE TELEPHONE (N.A.B.)	L.M.	1	
635.10	MOBILIZATION	L.S.	1	
636.20	UTILITY VAULT (MOD) (L-120)	L.S.	1	

SUMMARY OF AIP QUANTITIES

VAOT ITEM#	DESCRIPTION	UNIT	QUANTITIES	
			EST.	AS BUILT
649.51	ROBOTEXILES FOR SILT FENCE	S.Y.	110	
651.15	SEED	LB	500	
651.25	HAY RULCH	TON	25	
651.28	HAY BALES FOR EROSION CONTROL	EACH	400	
651.35	TOPSOIL	C.Y.	1,600	
678.23	WIREZ FENEST (1" MOD) (0-110)	L.F.	8,800	
678.24	ELECTRICAL WIRING (MOD) (L-109)	L.F.	10,500	
854.01	P-800 BITUMINOUS PRIME COAT	GAL.	6,800	
854.01	P-800 TAR EMULSION PROTECTIVE SEAL COAT	GAL.	2,125	
854.04	P-300 CRUSHED AGGREGATE BASE COURSE	C.Y.	8,400	
854.01	P-200A COLD MIXED RECYCLED BASE COURSE	C.Y.	49,026	
854.02	P-400 BITUMINOUS CONCRETE PAVEMENT (PG 56-34)	TON	12,575	
854.03	P-820 RUNWAY AND TAXI PAINTING (WHITE)	S.F.	31,000	
854.03	P-820 RUNWAY AND TAXI PAINTING (BLACK)	S.F.	4,800	
854.03	P-820 RUNWAY AND TAXI PAINTING (YELLOW)	S.F.	2,800	
854.04	L-108 CABLE TRENCH (MOD) (SAW CUTTING P-410)	L.F.	815	
854.08	L-108 #6 COUNTERPOISE WIRE	L.F.	10,500	
854.09	L-110 #WAY X 4" DIA. U.G. ELECTRICAL DUCT	L.F.	32	
854.10	L-125 MEDIUM INTENSITY R/W LTS, BASE WTD. (MOD) (DID LIGHTS)	EACH	14	
854.10	L-125 MEDIUM INTENSITY R/W LTS, BASE WTD.	EACH	42	
854.11	L-125 MEDIUM INTENSITY TAXIWAY LTS, BASE WTD.	EACH	17	
854.12	L-125 PRECISION APPROACH PATH INDICATOR	EACH	1	
854.13	L-125 RUNWAY END IDENTIFIER LIGHTS	EACH	2	
854.13	L-125 RUNWAY END IDENTIFIER LIGHTS (MOD) (3 PANEL HOLD SIGN) (RELOCATION)	EACH	1	
854.15	L-125 THRESHOLD LIGHTS(MOD)(MARKERS RETROREFLECTIVE)	EACH	38	

LIST OF STANDARDS

- AP-1
- AP-2
- AP-3
- AP-4
- AP-5
- AP-10
- AP-11
- AP-12
- D-4
- D-8
- D-11
- D-13
- D-15
- D-16
- T-1
- T-2

THESE PLANS AND SPECIFICATIONS ARE IN ACCORDANCE WITH CRITERIA IN CURRENT FAA ADVISORY CIRCULARS AS OF MAY 1, 1995.

DATE

VAOT COMMENTS AND SURVEY ADJUSTMENTS 1/18/01
 NO. REVISIONS DATE

INDEX OF DRAWINGS

SHT. #	DESCRIPTION
T-1	TITLE SHEET
PL-1	PROJECT LAYOUT & OPERATIONS PLAN
DP-1	DEMOLITION PLAN
RW-1	RUNWAY 18-36 PLAN & PROFILE
RW-2	RUNWAY 18-36 PLAN & PROFILE
RW-3	RUNWAY 18-36 PLAN & PROFILE
RW-4	RUNWAY 18-36 PLAN & PROFILE
RW-5	RUNWAY INTERSECTION GRADING PLAN
RW-6	RUNWAY 5-23 PLAN & PROFILE
RW-7	RUNWAY 5-23 PLAN & PROFILE
AP-1	APRON GRADING PLAN
XS-1	CROSS SECTIONS RUNWAY 18-36 (STA. 12+00 TO 18+50)
XS-2	CROSS SECTIONS RUNWAY 18-36 (STA. 17+00 TO 21+50)
XS-3	CROSS SECTIONS RUNWAY 18-36 (STA. 22+00 TO 28+00)
XS-4	CROSS SECTIONS RUNWAY 18-36 (STA. 27+00 TO 31+50)
XS-5	CROSS SECTIONS RUNWAY 18-36 (STA. 32+00 TO 38+50)
XS-6	CROSS SECTIONS RUNWAY 18-36 (STA. 37+00 TO 42+00)
XS-7	CROSS SECTIONS RUNWAY 18-36 (STA. 42+50 TO 47+00)
XS-8	CROSS SECTIONS RUNWAY 18-36 (STA. 47+50 TO 52+00)
XS-9	CROSS SECTIONS RUNWAY 5-23 (STA. 37+00 TO 42+50)
TS-1	TYPICAL SECTION & PAVING DETAILS
PM-1	PAVEMENT MARKING DETAILS
PM-2	PAVEMENT MARKING DETAILS
LP-1	RUNWAY & TAXIWAY LIGHTING PLAN
LP-2	RUNWAY & TAXIWAY LIGHTING PLAN
DE-1	DRAINAGE & EROSION CONTROL DETAILS
DE-2	RUNWAY & TAXIWAY ELECTRICAL DETAILS
DE-3	RUNWAY MARKING DETAILS
PP-1	PAPI MOUNTING PLAN, SECTIONS AND FOUNDATION PLAN
PP-2	PAPI GENERAL INSTALLATION DETAILS
PP-3	PAPI POWER AND CONTROLS STATION AND FOUNDATION PLAN
PP-4	PAPI WIRING, ELECTRIC ROOM DIAGRAM AND DETAILS

Revised 03/19/01

FEDERAL AVIATION ADMINISTRATION

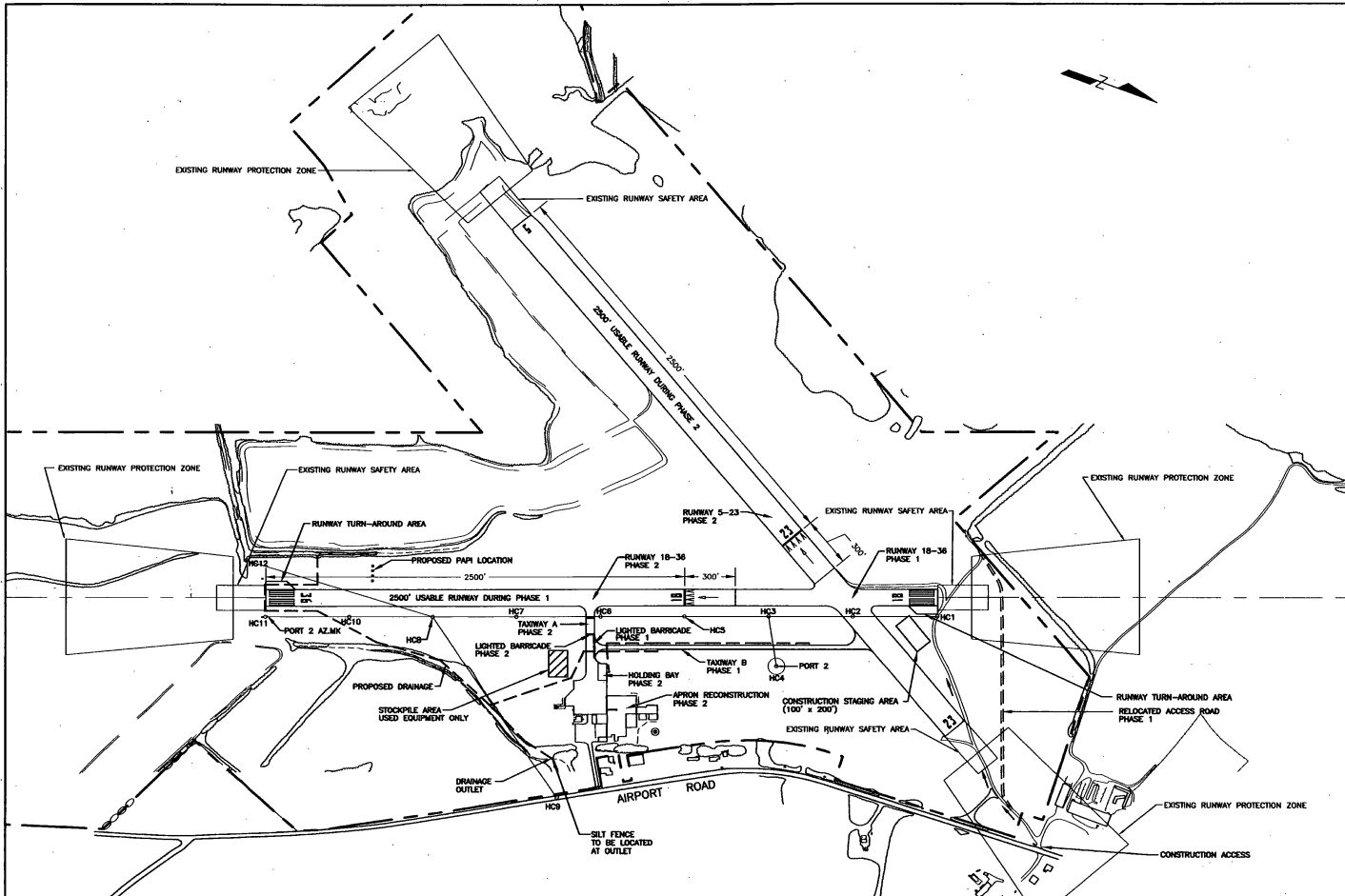
APPROVED: CHIEF, AIRPORT ENGINEER AND SAFETY BRANCH DATE

VERMONT AGENCY OF TRANSPORTATION

David C. Dine Feb 14, 2001
 APPROVED: DIRECTOR OF MAINTENANCE AND AVIATION DATE

PREPARED BY
 DuBOIS AND KING, INC.
 P.O. BOX 339.....RANDOLPH, V.T. 05080.....TEL. (802) 728-3378

APPROVED: DATE



CONSTRUCTION AND OPERATIONAL NOTES:

1. THE AIRPORT SHALL BE OPEN AND USABLE DURING DAYLIGHT HOURS THROUGHOUT THE DURATION OF CONSTRUCTION EXCEPT DURING RECONSTRUCTION OF TAXIWAY A AND THE APRON. (SEE NOTE 4)
2. CONSTRUCTION DURATION FOR THE PROJECT IS 14 WEEKS. RUNWAY LIGHTING MAY BE OUT OF OPERATION FOR NO MORE THAN 8 WEEKS.
3. CONSTRUCTION SHALL BE CARRIED OUT IN TWO PHASES.
 PHASE 1 SHALL CONSIST OF THE CONSTRUCTION OF TAXIWAY B AND THE RECONSTRUCTION OF THE NORTHERN 1200 FEET OF RUNWAY 18-36. RUNWAY 5-23 SHALL REMAIN CLOSED DURING PHASE 1 CONSTRUCTION.
 PHASE 2 SHALL CONSIST OF THE RECONSTRUCTION OF THE SOUTHERN 2800 FEET OF RUNWAY 18-36, RECONSTRUCTION OF TAXIWAY A, RECONSTRUCTION OF THE APRON, AND CONSTRUCTION OF THE HOLDING BAY. RUNWAY 18-36 SHALL REMAIN CLOSED DURING PHASE 2 CONSTRUCTION.
4. ALL WORK PERTAINING TO THE RECONSTRUCTION OF TAXIWAY A AND THE APRON, INCLUDING DRAINAGE, SHALL BE SCHEDULED SO THAT THE CONNECTION BETWEEN THE EXISTING TERMINAL AREA AND TAXIWAY B IS CLOSED FOR NO MORE THAN 72 HOURS. THE DATES OF THE CLOSURE SHALL BE COORDINATED WITH THE AIRPORT MANAGER AND THE RESIDENT ENGINEER. (SEE NOTE 17)
5. THE CONTRACTOR SHALL ESTABLISH MARKINGS FOR THE REPLACED THRESHOLD FOR RUNWAY 18-36, AND CLOSURE OF RUNWAY 5-23 PRIOR TO MOVING EQUIPMENT INTO THE STAGING OR STOCKPILE AREAS. RUNWAY 18-36 WILL HAVE A REPLACED THRESHOLD DURING PHASE 1 CONSTRUCTION AND WILL BE CLOSED DURING PHASE 2 CONSTRUCTION. RUNWAY 5-23 WILL BE CLOSED DURING PHASE 2 CONSTRUCTION AND HAVE A REPLACED THRESHOLD DURING PHASE 2 CONSTRUCTION.
6. AN AREA 250 FEET EACH SIDE OF THE CENTER OF RUNWAY AND 300 FEET FROM RUNWAY ENDS SHALL BE KEPT CLEAR AT ALL TIMES WHEN RUNWAYS ARE OPEN AND OPERATIONAL UNLESS PRIOR APPROVAL IS RECEIVED FROM BOTH THE AIRPORT MANAGER AND THE RESIDENT ENGINEER.
7. CONSTRUCTION ACCESS WILL BE FROM AIRPORT ROAD AS INDICATED. THERE WILL BE NO CONSTRUCTION ACCESS ALLOWED DIRECTLY THROUGH EXISTING PAVED AIRPORT FACILITIES.
8. CONSTRUCTION EQUIPMENT SHALL NOT BE ALLOWED TO USE EXISTING PAVED AIRPORT SURFACES FOR CONSTRUCTION ACCESS OR OPERATION DURING CONSTRUCTION.
9. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A SCHEDULE OF WORK FOR APPROVAL BY ENGINEER PRIOR TO STARTING ANY CONSTRUCTION. THE SCHEDULE SHALL INDICATE DATES FOR ALL RUNWAY AND TAXIWAY CLOSURES AND MUST BE UPDATED BI-WEEKLY IF SEQUENCE OR DURATIONS CHANGE.
10. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPLYING AND PLACING AN "X" ON THE RUNWAY NUMERALS TO SIGNIFY WHEN A RUNWAY IS CLOSED. MARKINGS MAY BE PLACED JUST OFF THE RUNWAY ENDS WHEN THE CONTRACTOR IS WORKING IN THE NUMERAL AREAS.
11. THE CONTRACTOR WILL BE REQUIRED TO INSTALL AND MAINTAIN LIGHTED BARRICADES AND TEMPORARY SIGNAGE AS NECESSARY THROUGHOUT CONSTRUCTION. THESE BARRICADES AND SIGNS SHALL CONFORM TO THE DETAILS CONTAINED HEREIN AND NOTE 18.
12. CONSTRUCTION STAGING AND STOCKPILE AREAS SHALL BE CONFINED TO THOSE AREAS INDICATED ON THE PLANS.
13. ALL DISTURBED AREAS OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE RESTORED TO THEIR PRECONSTRUCTION CONDITION AT NO COST TO THE OWNER. THIS SHALL INCLUDE THE AREAS DESIGNATED FOR CONSTRUCTION ACCESS, STAGING, MATERIAL STORAGE AND STOCKPILING.
14. ALL EXISTING RUNWAY AND TAXIWAY LIGHTS, AND RUNWAY END IDENTIFICATION LIGHTS SHALL BE SALVAGED AND SHALL REMAIN THE PROPERTY OF THE VERMONT AGENCY OF TRANSPORTATION. SALVAGED ITEMS SHALL BE STOCKPILED ON SITE UNLESS OTHERWISE BY THE OWNER.
15. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY AND ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
16. NOTICE TO AERONAUTICS (NOTAMS) MUST BE ISSUED BY THE AIRPORT MANAGER PRIOR TO ANY CHANGES TO AIRPORT OPERATIONS. NOTAMS MUST BE ISSUED AT LEAST 48 HOURS IN ADVANCE OF ANY AIRPORT STATUS CHANGE. THERE CAN BE NO EXCEPTIONS. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE THIS EFFORT WITH THE AIRPORT MANAGER AND RESIDENT ENGINEER.
17. AIRPORT CLOSURE MUST BE DURING WEEKDAYS AND ENDING PRIOR TO NOON ON FRIDAY.
18. THE CONTRACTOR SHALL COMPLY WITH ALL THE PROVISIONS STATED IN THE FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULAR ON "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION", FAA AC. NO. 150/2370-20. FLASHING AMBER LIGHTS WILL BE REQUIRED ON ALL CONSTRUCTION VEHICLES.
19. THE CONTRACTOR SHALL CONSTRUCT RUNWAY TURN-AROUND AREAS AT EACH END OF RUNWAY 18-36, AS SPECIFIED BY THE ENGINEER.
 APPROXIMATE QUANTITIES FOR THESE AREAS ARE:

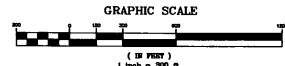
ITEM	DESCRIPTION	UNIT	QUANTITY
203.18	EXCAVATION	CY	450
404.55	EMULSIFIED ASPHALT	GAL	170
651.15	SEED	LB	9
651.25	SUNGLASS	TON	0.4
651.35	TOPSOIL	CY	218
654.09	CRUSHED AGG. BASE COURSE	CY	300
654.02	BETWEEN-COURSE CONCRETE PAVEMENT	TON	300

HORIZONTAL CONTROL POINTS

HC #	STATION	OFFSET	ELEVATION
HC 1	12+00.00	-100.83	929.29
HC 2	17+00.00	-100.88	927.71
HC 3	22+00.00	-101.02	925.29
HC 4	21+53.18	-400.31	923.02
HC 5	27+00.00	-101.07	923.45
HC 6	32+00.00	-101.12	921.08
HC 7	37+00.00	-101.17	919.78
HC 8	42+00.00	-101.21	918.33
HC 9	36+60.11	-1183.99	901.44
HC 10	47+00.00	-101.25	918.38
HC 11	52+00.00	-101.30	916.18
HC 12	53+15.00	238.84	913.38

BENCHMARK
 PORT 2 ELEV. = 923.02
 BRASS MGS DISK SET IN CONCRETE

HORIZONTAL CONTROL
 PORT 2 AZMK
 BRASS MGS DISK SET IN CONCRETE N 889785.22 E 1711899.06
 PORT 2
 BRASS MGS DISK SET IN CONCRETE N 871721.64 E 1711104.01



CONTRACTOR SHALL NOT DISTURB HORIZONTAL OR VERTICAL CONTROL POINTS. CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO THESE POINTS AND SHALL BE RESPONSIBLE FOR ANY COSTS INCURRED BY THE OWNER TO FIX OR REPLACE.

NO.	DATE	BY	DESCRIPTION	MDL	SJR
1	2/18/01	AVI	ADVIS COMMENTS AND SURVEY ADJUSTMENTS		
			REVISIONS		

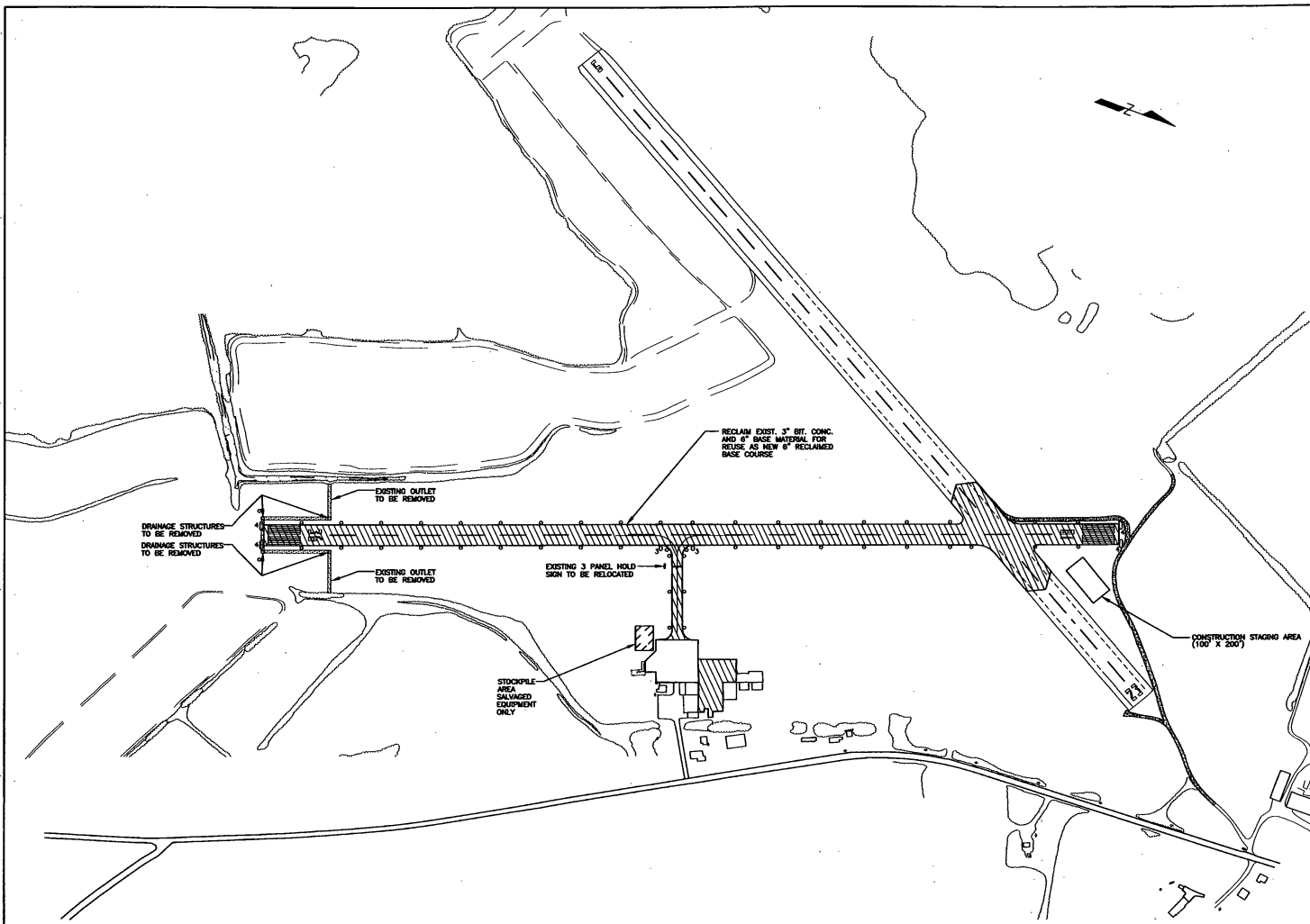
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VERMONT AGENCY OF TRANSPORTATION
 COVENTRY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION

DATE	BY	DESCRIPTION
MAR. 2000		
PROJ. NO.	115500	
PROJ. DTC.	JAA	
DRW. NO.	1	

PROJECT LAYOUT AND OPERATIONS PLAN

SHEET PL-1

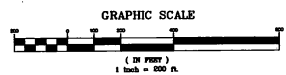


DEMOLITION NOTES:

1. THIS PLAN INDICATES EXISTING FACILITIES THAT WILL BE DEMOLISHED DURING CONSTRUCTION. (REFER TO LEGEND FOR ITEMS TO BE DEMOLISHED). REFER TO THE CONSTRUCTION AND OPERATIONAL NOTES ON SHEET PL-1 FOR STAGING AND SCHEDULING INFORMATION. ALL DEMOLITION OPERATIONS SHALL BE INDICATED ON THE CONSTRUCTION SCHEDULE.
2. ALL EXISTING RUNWAY AND TAXIWAY LIGHTS, AND RUNWAY END IDENTIFICATION LIGHTS SHALL BE SALVAGED AND SHALL REMAIN THE PROPERTY OF THE VERMONT AGENCY OF TRANSPORTATION. SALVAGED ITEMS SHALL BE STOCKPILED ON SITE UNTIL REMOVED BY THE OWNER.
3. ALL EXISTING MANHOLE FRAMES AND COVERS AND CATCH BASIN FRAMES, GRATES, AND LIDS SHALL BE SALVAGED AND SHALL REMAIN THE PROPERTY OF THE VERMONT AGENCY OF TRANSPORTATION. SALVAGED ITEMS SHALL BE STOCKPILED ON SITE UNTIL REMOVED BY THE OWNER.
4. EXISTING STORM DRAIN SHALL BE REMOVED AS NECESSARY TO FACILITATE CONSTRUCTION OF NEW STORM DRAIN. ALL OPEN ENDS OF EXISTING STORM DRAIN LEFT IN PLACE SHALL BE PLUGGED WITH BRICK AND MORTAR.

LEGEND

	= PAVEMENT TO BE RECLAIMED (R)
	= OUTLET TO BE REMOVED
	= ROAD TO BE OBLITERATED
	= RUNWAY LIGHTS TO BE REMOVED
	= DRAINAGE STRUCTURES TO BE REMOVED



NO.	DATE	BY/ COMMENTS AND SURVEY ADJUSTMENTS	CHK.	SUR.
1	1/18/01	VAOT COMMENTS AND SURVEY ADJUSTMENTS	ML	SR
		REVISIONS		BY: GSKP

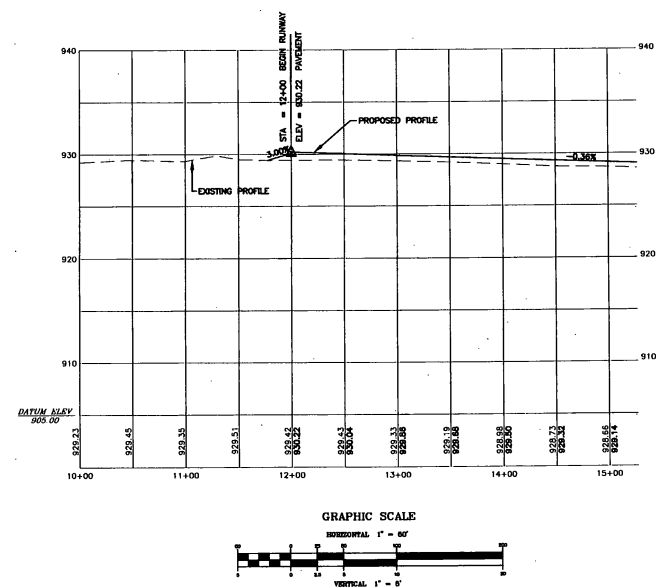
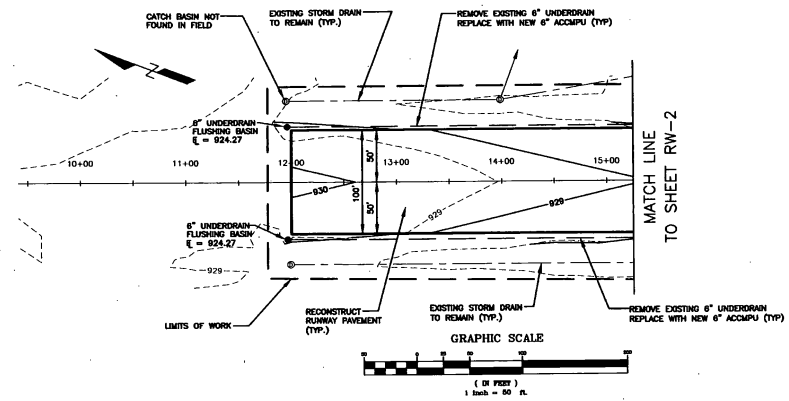
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VERMONT AGENCY OF TRANSPORTATION
 COVENTRY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 DEMOLITION PLAN

DESIGNED BY JUP	DATE MAR. 2000
CHECKED BY PROJ. NO. M15500	
PROJECT ENG. JAA	DRAWING NO. 1
SHEET DP-1	

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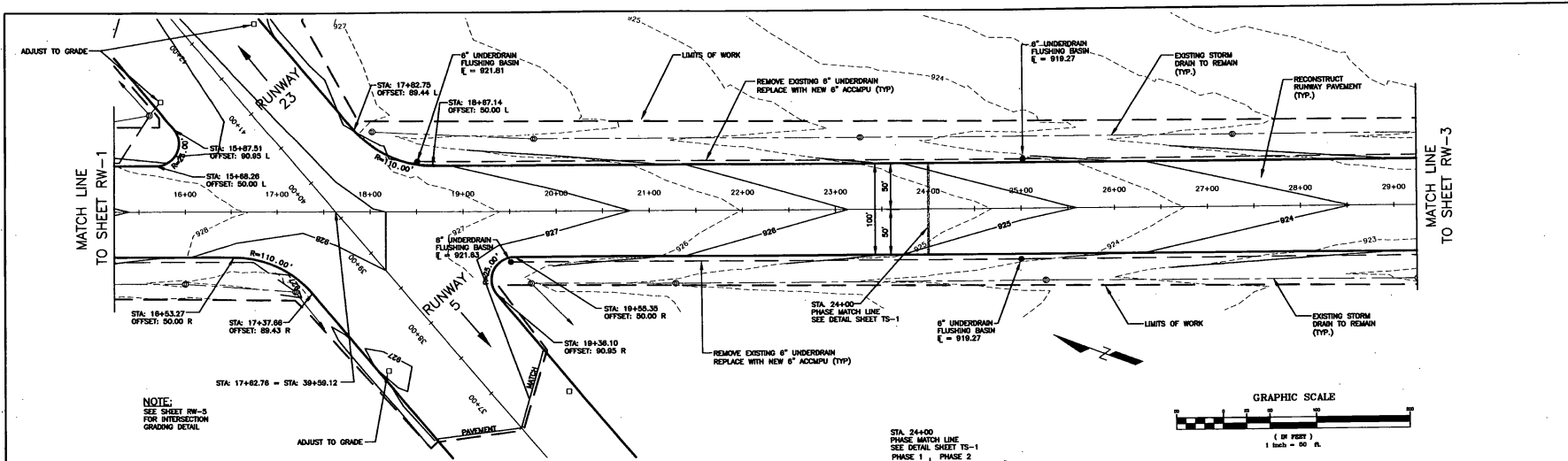
- LEGEND**
- LIMITS OF WORK
 - - - - - EXISTING CONTOURS
 - - - - - PROPOSED CONTOURS
 - - - - - PROPOSED UNDERDRAIN
 - - - - - EXISTING STORM DRAIN TO REMAIN
 - - - - - PROPOSED STORM DRAIN
 - EXISTING CATCH BASINS TO REMAIN
 - ⊙ PROPOSED CATCH BASINS
 - FLUSHING BASIN

NO.	DATE	WHAT COMMENTS AND SURVEY ADJUSTMENTS	MDL.	SJR.
1	1/18/01	W/OT COMMENTS AND SURVEY ADJUSTMENTS		
		REVISIONS	BY	CR'D

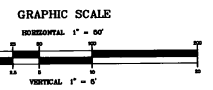
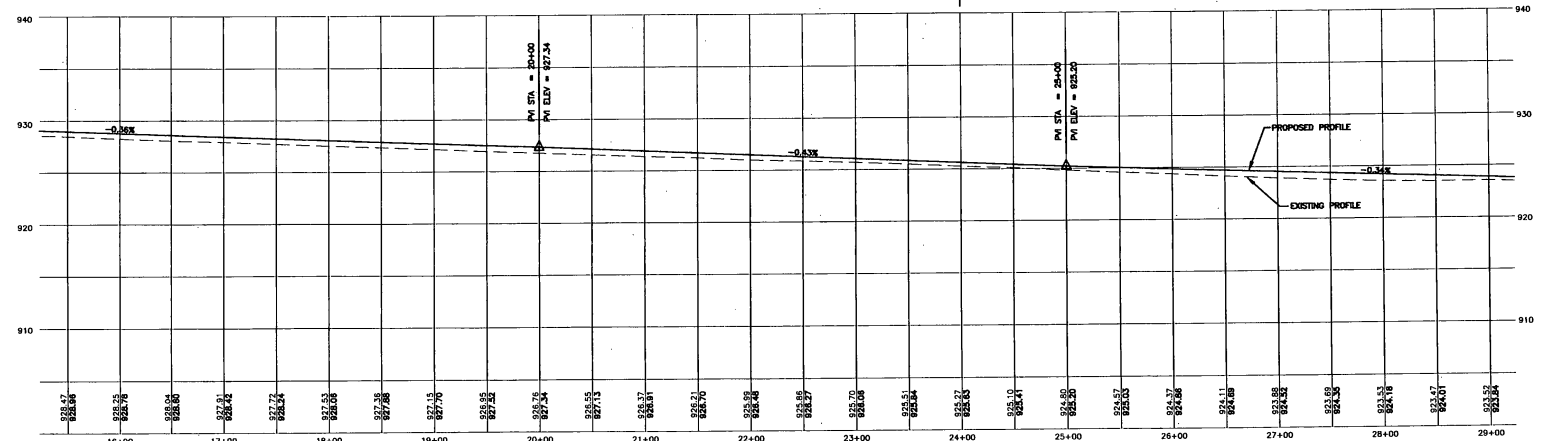
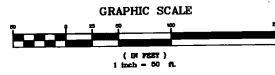

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VERMONT AGENCY OF TRANSPORTATION
 COVENTRY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 STA. 10+00 TO 15+25

DESIGN BY JJP	DATE MAR. 2000
CHECKED BY JAA	PROJECT NO. 115500
DRAWN BY JAA	SHEET NO. 1
SHEET RW-1	



NOTE:
SEE SHEET RW-5
FOR INTERSECTION
GRADING DETAIL



- LEGEND**
- LIMITS OF WORK
 - - - EXISTING CONTOURS
 - - - PROPOSED CONTOURS
 - - - PROPOSED UNDERDRAIN
 - - - EXISTING STORM DRAIN TO REMAIN
 - - - PROPOSED STORM DRAIN
 - EXISTING CATCH BASINS TO REMAIN
 - PROPOSED CATCH BASINS
 - FLUSHING BASIN

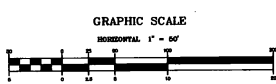
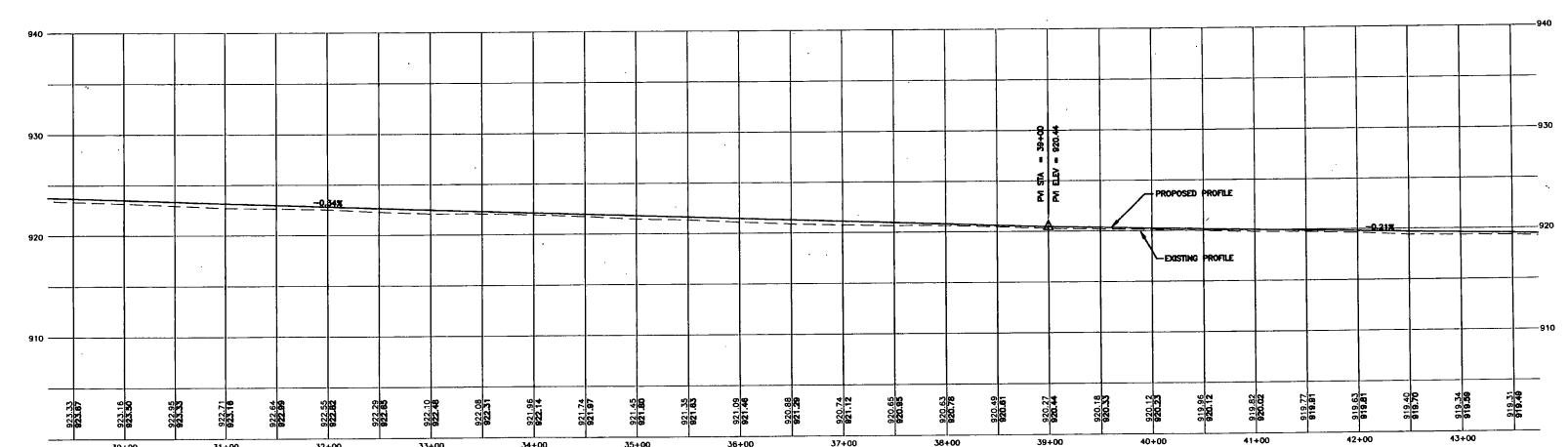
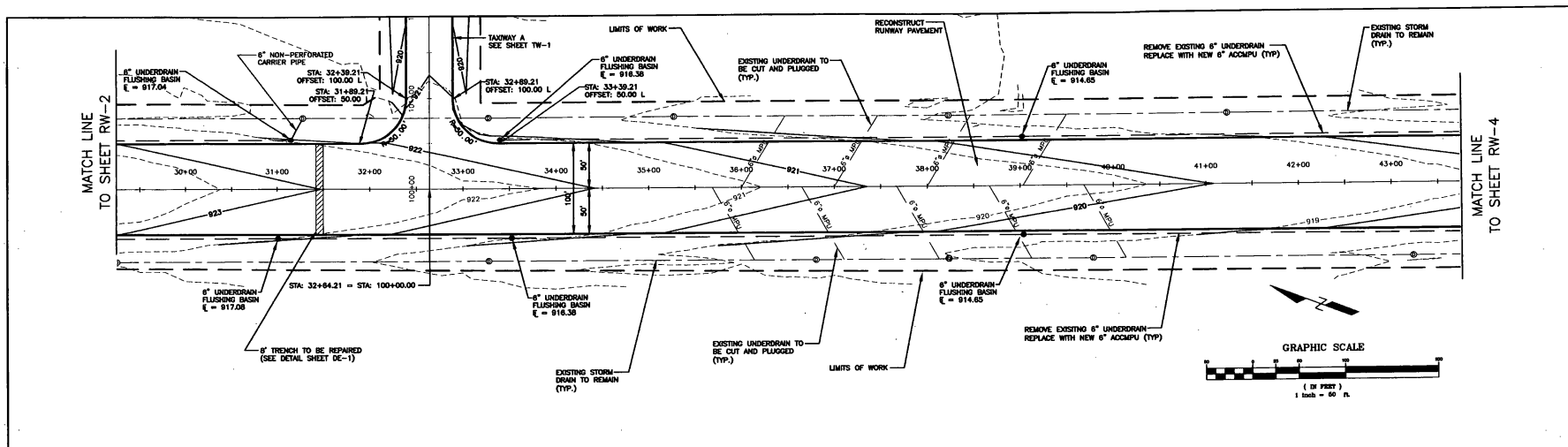
NO.	DATE	REVISIONS	BY	CHK'D
1	1/18/01	NOT COMMENTS AND SURVEY ADJUSTMENTS	MDL	SJR

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VERMONT AGENCY OF
TRANSPORTATION
CONVENTRY, VERMONT
NEWPORT STATE AIRPORT
RUNWAY 18-36 RECONSTRUCTION
RUNWAY 18-36 PLAN & PROFILE
STA. 15+25 TO 29+25

DESIGN BY JUP	DATE MAR. 2000
DRAWN BY JAA	PROJECT NO. N15500
CHECKED BY JAA	DRAWING NO. 1
SHEET RW-2	

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LEGEND

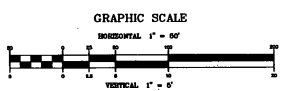
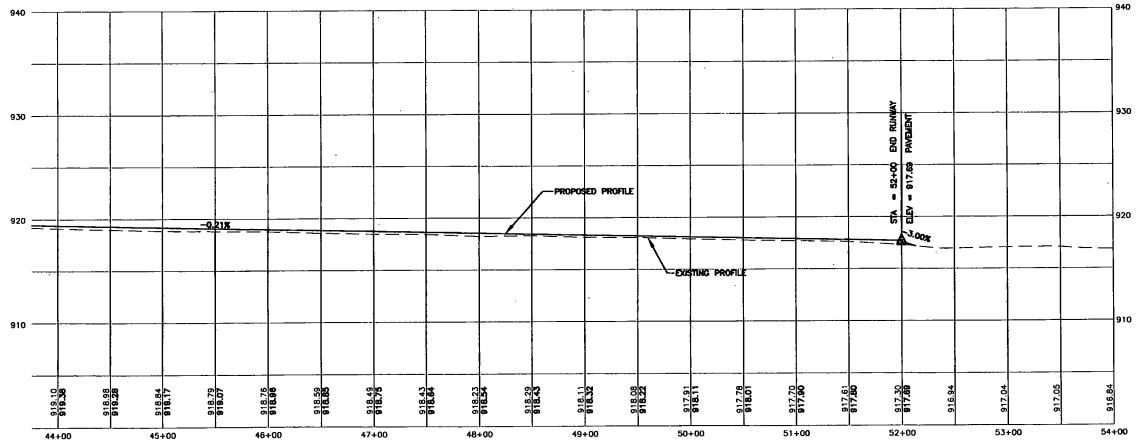
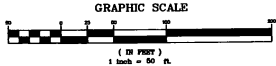
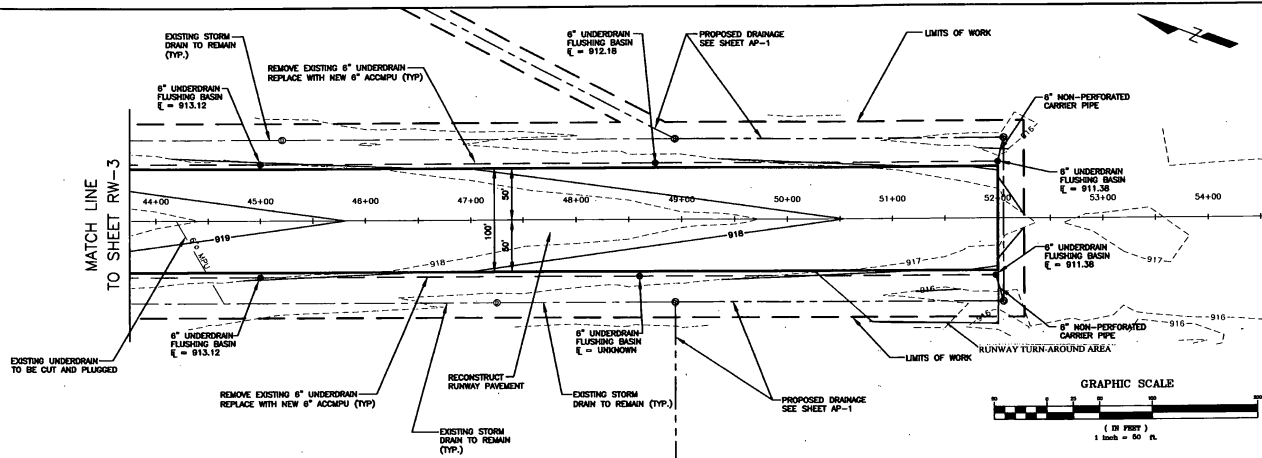
- LIMITS OF WORK
- - - EXISTING CONTOURS
- - - PROPOSED CONTOURS
- - - EXISTING UNDERDRAIN
- - - EXISTING STORM DRAIN TO REMAIN
- - - PROPOSED STORM DRAIN
- - - EXISTING CATCH BASINS TO REMAIN
- - - PROPOSED CATCH BASINS
- - - FLUSHING BASIN

NO.	DATE	REVISIONS	BY	CHKD

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VERMONT AGENCY OF TRANSPORTATION
 COVENTRY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 STA. 29+25 TO 43+75

DESIGNED BY JJP	DATE MAR. 2000
CHECKED BY HTS/SG	PROJECT NO. 1515500
DRAWN BY JAA	SHEET NO. 1
SHEET RW-3	



- LEGEND**
- LIMITS OF WORK
 - - - EXISTING CONTOURS
 - - - PROPOSED CONTOURS
 - - - EXISTING UNDERDRAIN
 - - - PROPOSED UNDERDRAIN
 - - - EXISTING STORM DRAIN TO REMAIN
 - - - PROPOSED STORM DRAIN
 - EXISTING CATCH BASINS
 - PROPOSED CATCH BASINS
 - EXISTING FLUSHING BASIN
 - PROPOSED FLUSHING BASIN

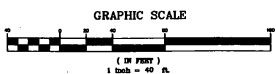
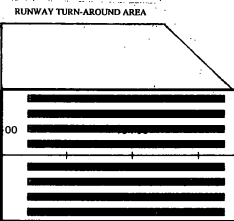
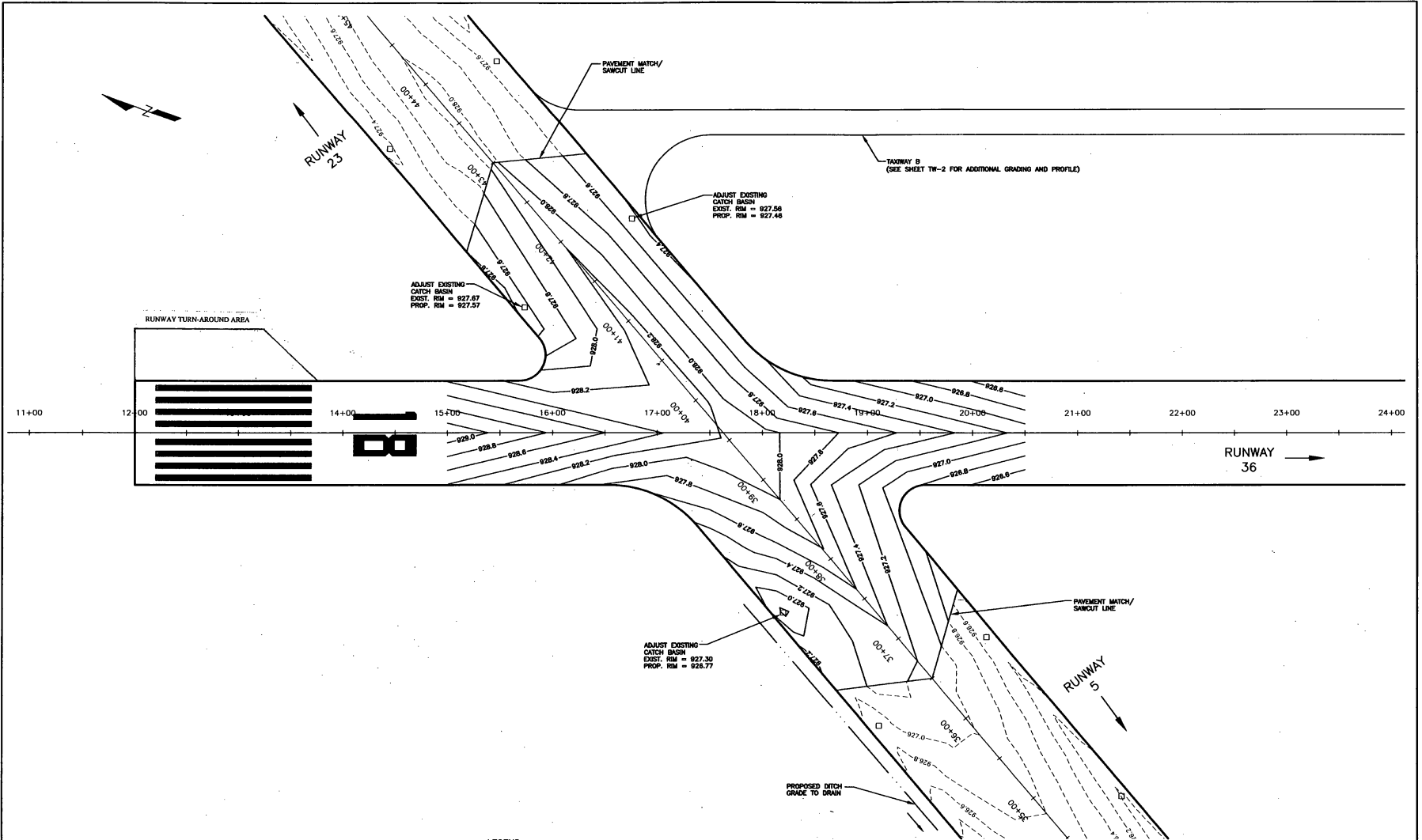
NO.	DATE	REVISIONS	BY	CHKD

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VERMONT AGENCY OF TRANSPORTATION
 COVERLY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 RUNWAY 18-36 PLAN & PROFILE
 STA. 43+75 TO 54+00

DESIGN BY JUP	DATE MAR. 2000
DRAWN BY N15500	PROJECT NO. N15500
SCALE JAA	DRAWING NO. 1
SHEET RW-4	

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- LEGEND**
- LIMITS OF WORK
 - - - EXISTING CONTOURS
 - - - PROPOSED CONTOURS
 - - - PROPOSED UNDERDRAIN
 - - - EXISTING STORM DRAIN TO REMAIN
 - - - PROPOSED STORM DRAIN
 - EXISTING CATCH BASINS TO REMAIN
 - ⊙ PROPOSED CATCH BASINS
 - FLUSHING BASIN

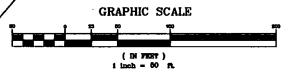
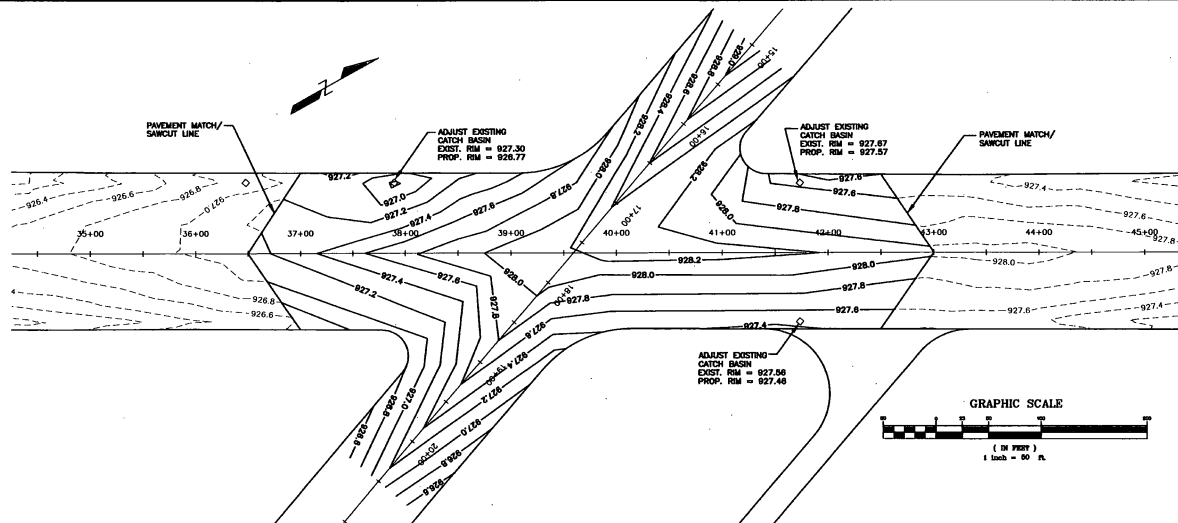
NO.	DATE	REVISIONS	BY	CHK'D
1	11/18/01	ADJ COMMENTS AND SURVEY ADJUSTMENTS	MDL	SJR

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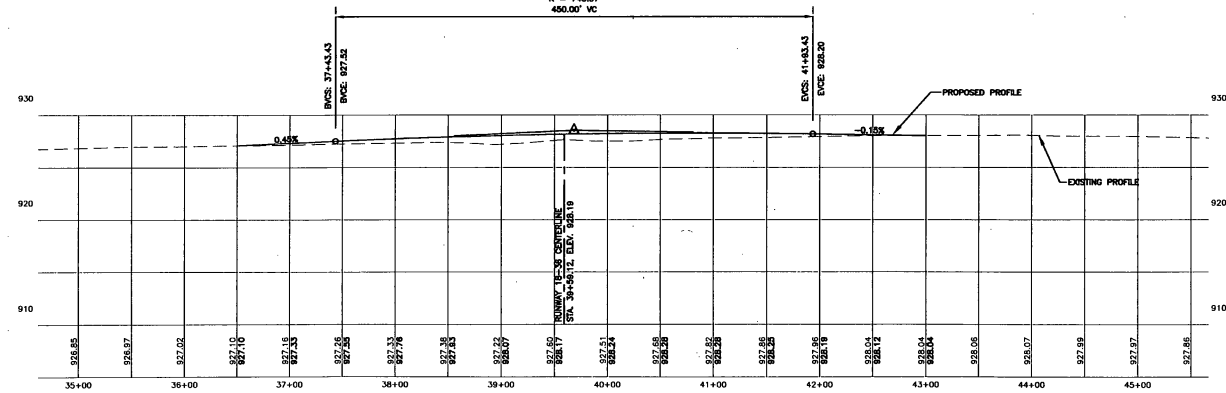
VERMONT AGENCY OF
 TRANSPORTATION
 COVENTRY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 RUNWAY INTERSECTION
 GRADING PLAN

DESIGNED BY LJP	DATE MAR. 2000
CHECKED BY JAA	PROJECT NO. N15500
PROJECT TITLE JAA	DRAWING NO. 1
SHEET RW-5	

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PVI STA = 39+68.43
PVI ELEV = 928.54
A.D. = -0.80
K = 743.97
450.00' VC



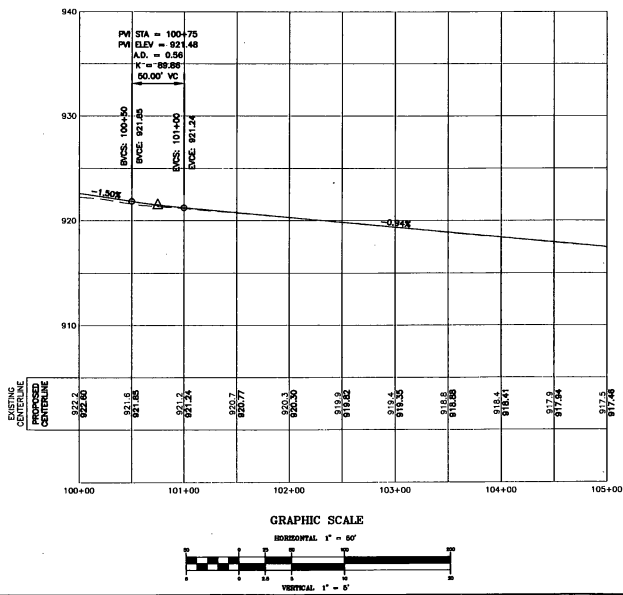
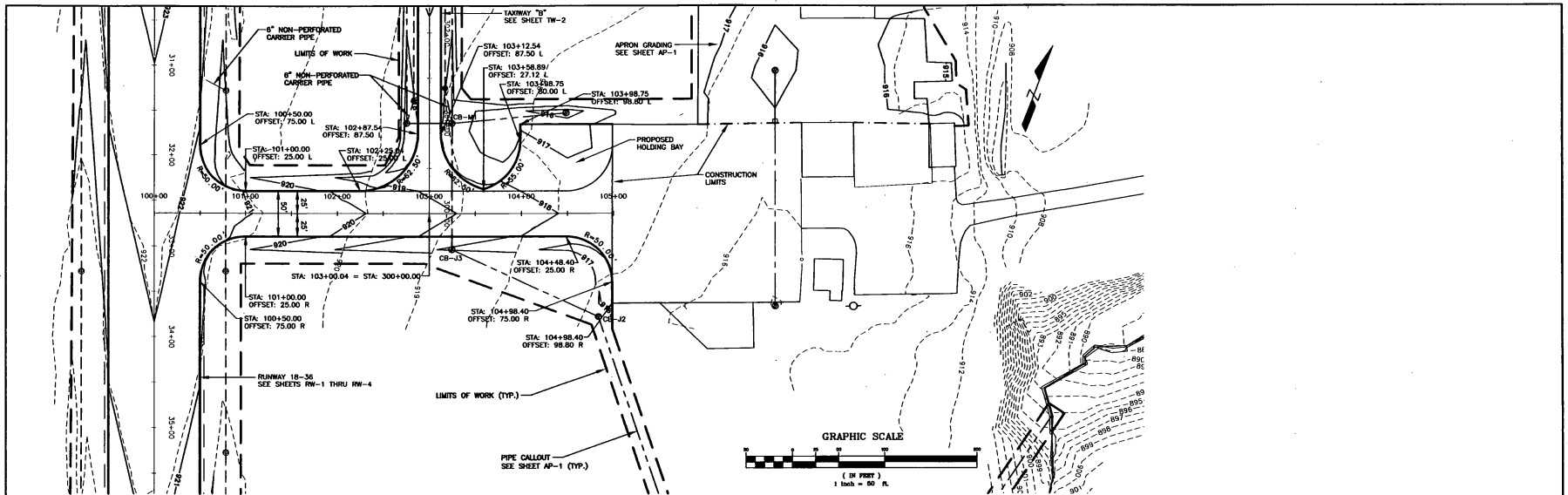
- LEGEND**
- LIMITS OF WORK
 - - - EXISTING CONTOURS
 - - - PROPOSED CONTOURS
 - - - EXISTING UNDERDRAIN
 - - - EXISTING STORM DRAIN TO REMAIN
 - - - PROPOSED STORM DRAIN
 - EXISTING CATCH BASINS TO REMAIN
 - PROPOSED CATCH BASINS
 - FLUSHING BASIN

NO.	DATE	REVISIONS	BY	CHK'D
1	11/18/01	ADOT COMMENTS AND SURVEY ADJUSTMENTS	MDL	SJR

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VERMONT AGENCY OF
TRANSPORTATION
COVENTRY, VERMONT
NEWPORT STATE AIRPORT
RUNWAY 18-36 RECONSTRUCTION
RUNWAY 5-23 PLAN & PROFILE
STA. 25+50 TO 35+50

DESIGN BY LJP	DATE MAR. 2000
CHECKED BY N15500	PROJ. NO. N15500
PROJ. ENG. JAA	DRAW. NO. 1
SHEET RW-6	



NOTES:

- CONTRACTOR SHALL VERIFY LOCATION OF EXISTING LIGHTING CIRCUITS AND REPORT THEM TO THE RESIDENT ENGINEER PRIOR TO CONSTRUCTION.
- DRAINAGE WORK FROM CATCH BASIN M1 TO CATCH BASIN J3 TO CATCH BASIN J2 SHALL BE CONSTRUCTED DURING THE 3 DAY AIRPORT CLOSURE PERIOD. (SEE NOTE 4 ON SHEET PL-1)

- LEGEND**
- LIMITS OF WORK
 - - - EXISTING CONTOURS
 - - - PROPOSED CONTOURS
 - - - PROPOSED UNDERDRAIN
 - - - EXISTING STORM DRAIN TO REMAIN
 - - - PROPOSED STORM DRAIN
 - ● ● EXISTING CATCH BASINS TO REMAIN
 - ● ● PROPOSED CATCH BASINS
 - ○ ○ FLUSHING BASIN

NO.	DATE	REVISIONS	BY	CHK'D

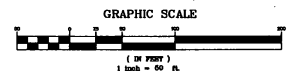
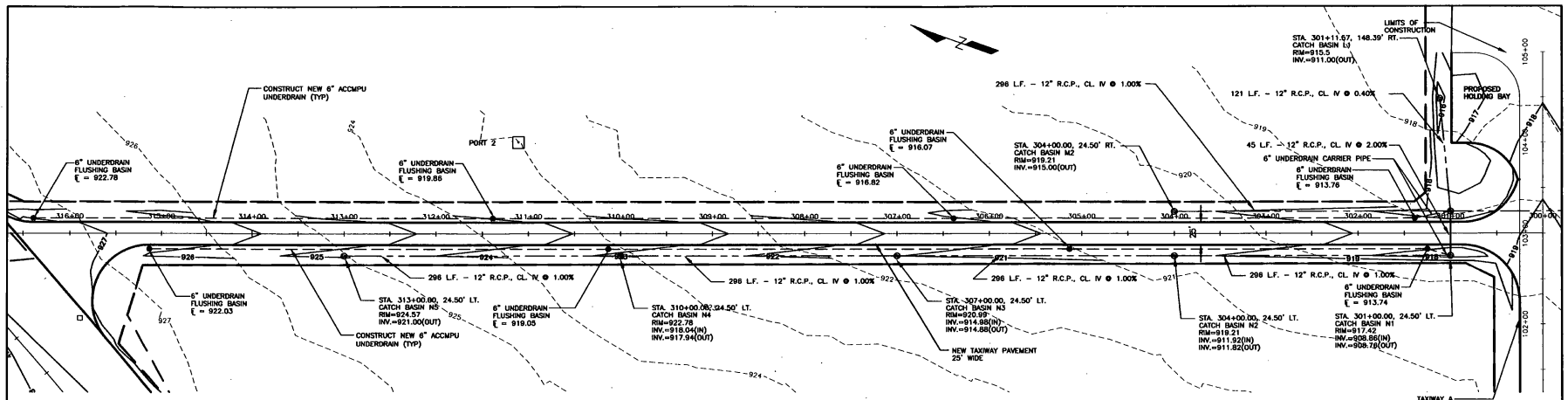
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VERMONT AGENCY OF TRANSPORTATION
COVENTRY, VERMONT
NEWPORT STATE AIRPORT
RUNWAY 18-36 RECONSTRUCTION
TAXIWAY A PLAN & PROFILE

DESIGN BY LJP	DATE MAR. 2000
CHECKED BY JAA	PROJ. NO. N15500
PROJ. ENG. JAA	DRAW. NO. 1
SHEET TW-1	

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LOW POINT ELEV = 918.44
 LOW POINT STA = 300+86.73
 PM STA = 300+75
 PM ELEV = 918.23
 A.D. = 2.08
 K = 47.82
 100.00' VC

STATION	PROPOSED RIGHT EDGE	PROPOSED CENTERLINE	PROPOSED LEFT EDGE	EXISTING RIGHT EDGE	EXISTING CENTERLINE	EXISTING LEFT EDGE
316+00	927.24	927.24	927.24	926.80	926.80	926.80
315+00	926.48	926.48	926.48	926.04	926.04	926.04
314+00	925.72	925.72	925.72	925.28	925.28	925.28
313+00	924.96	924.96	924.96	924.52	924.52	924.52
312+00	924.20	924.20	924.20	923.76	923.76	923.76
311+00	923.44	923.44	923.44	923.00	923.00	923.00
310+00	922.68	922.68	922.68	922.24	922.24	922.24
309+00	921.92	921.92	921.92	921.48	921.48	921.48
308+00	921.16	921.16	921.16	920.72	920.72	920.72
307+00	920.40	920.40	920.40	920.00	920.00	920.00
306+00	919.64	919.64	919.64	919.24	919.24	919.24
305+00	918.88	918.88	918.88	918.48	918.48	918.48
304+00	918.12	918.12	918.12	917.72	917.72	917.72
303+00	917.36	917.36	917.36	916.96	916.96	916.96
302+00	916.60	916.60	916.60	916.20	916.20	916.20
301+00	915.84	915.84	915.84	915.44	915.44	915.44
300+00	915.08	915.08	915.08	914.68	914.68	914.68

- LEGEND**
- LIMITS OF WORK
 - - - EXISTING CONTOURS
 - - - PROPOSED CONTOURS
 - - - PROPOSED UNDERDRAIN
 - - - EXISTING STORM DRAIN TO REMAIN
 - - - PROPOSED STORM DRAIN
 - EXISTING CATCH BASINS TO REMAIN
 - PROPOSED CATCH BASINS

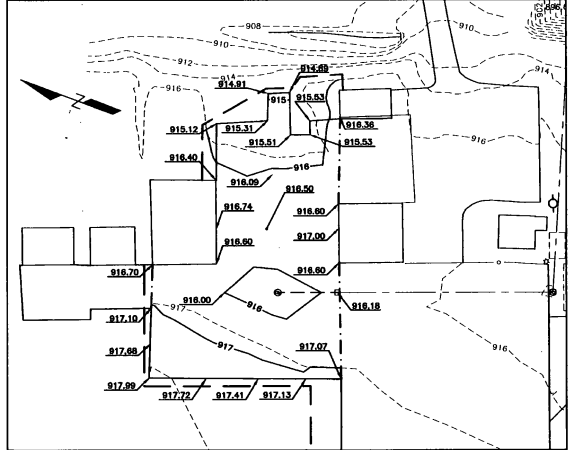
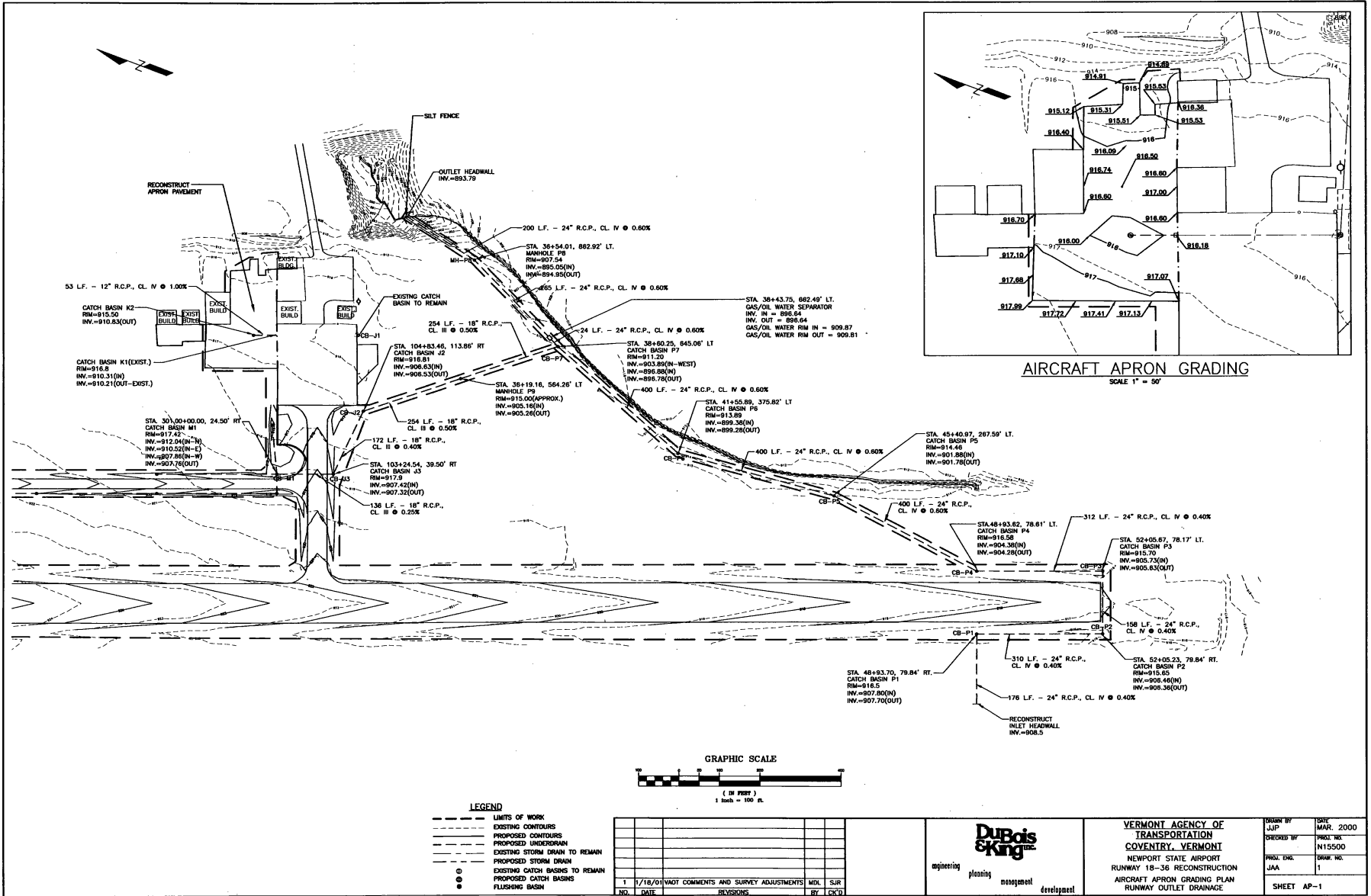
NO.	DATE	REVISIONS	BY	CHK'D

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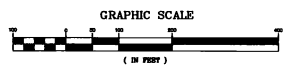
VERMONT AGENCY OF TRANSPORTATION
 COVENTRY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 1B-36 RECONSTRUCTION
 TAXWAY B
 PLAN & PROFILE

DESIGN BY JUP	DATE MAR. 2000
CHECKED BY JJA	PROJ. NO. N15500
PROJ. ENG. JJA	DRAW. NO. 1

SHEET TW-2



AIRCRAFT APRON GRADING
SCALE 1" = 50'



LEGEND

- LIMITS OF WORK
- - - EXISTING CONTOURS
- - - PROPOSED CONTOURS
- - - PROPOSED UNDERDRAIN
- - - EXISTING STORM DRAIN TO REMAIN
- - - PROPOSED STORM DRAIN
- EXISTING CATCH BASINS TO REMAIN
- PROPOSED CATCH BASINS
- FLUSHING BASIN

NO.	DATE	REVISIONS	BY	CHK'D
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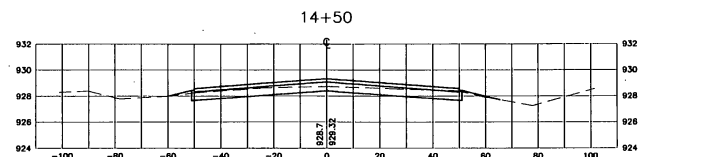
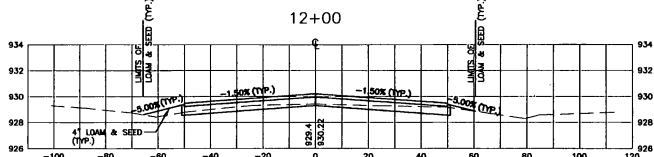
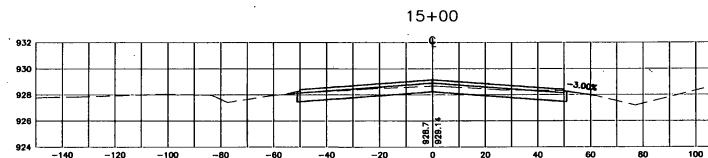
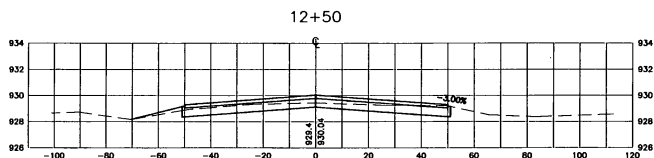
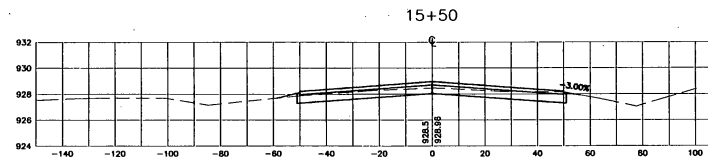
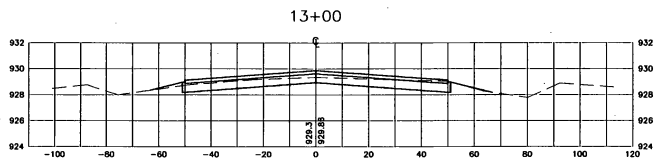
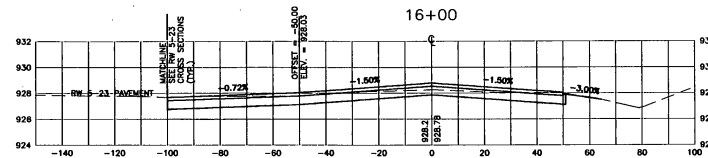
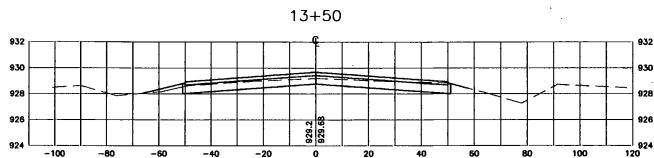
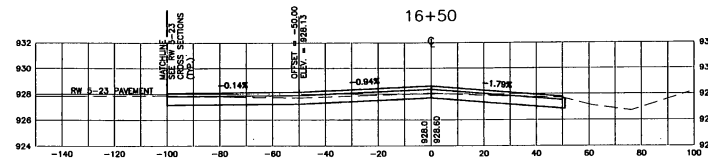
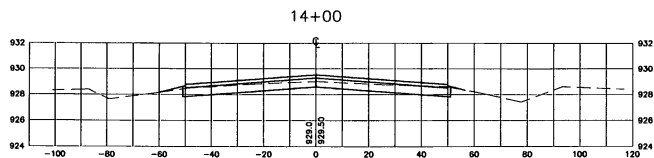
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VERMONT AGENCY OF TRANSPORTATION
COVENTRY, VERMONT
NEWPORT STATE AIRPORT
AIRCRAFT APRON GRADING PLAN
RUNWAY OUTLET DRAINAGE

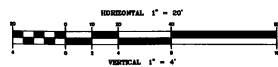
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CHECKED BY	JAA	PROJ. NO.	N15500
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SHEET			AP-1

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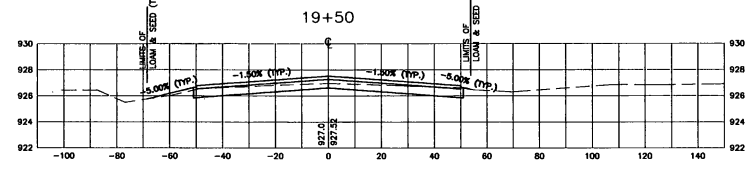
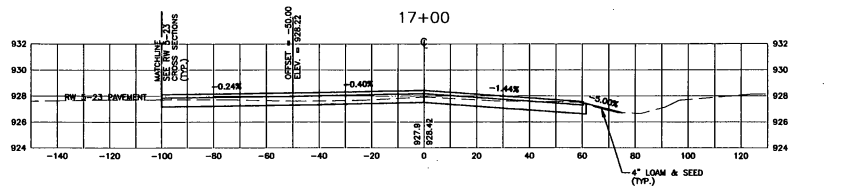
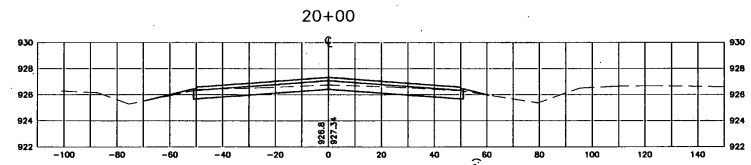
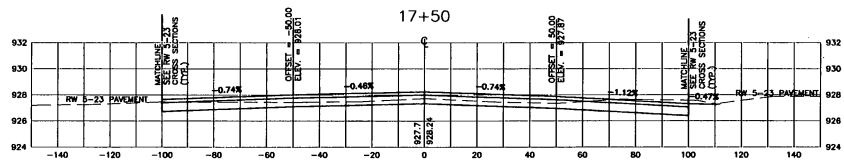
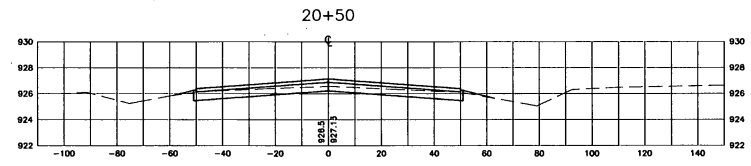
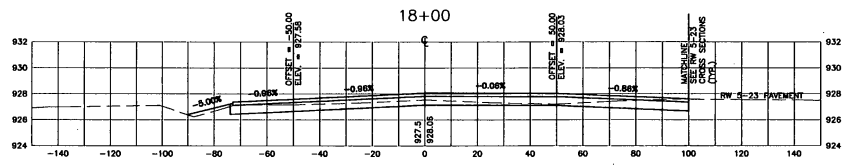
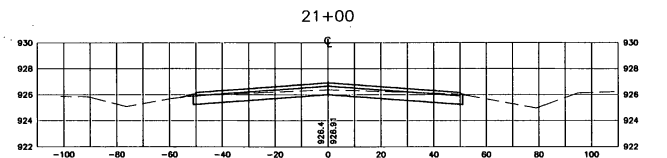
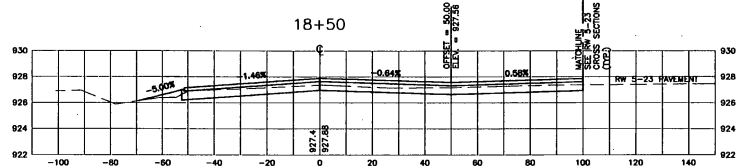
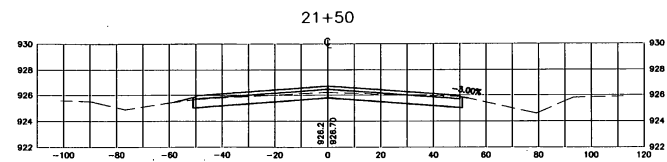
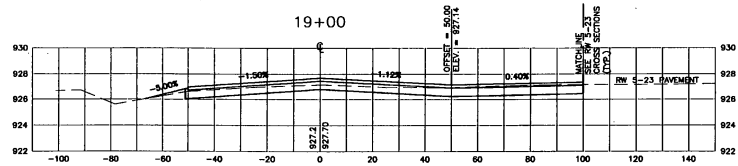
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			REVISIONS		BY

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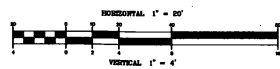
VERMONT AGENCY OF
 TRANSPORTATION
 COVENTRY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 CROSS SECTIONS RW 18-36
 STA. 12+00 TO 16+50

DESIGN BY JUP	DATE MAR. 2000
CHECKED BY JJA	PROJ. NO. N15500
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SHEET XS-1	

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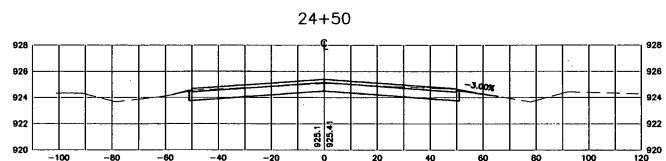
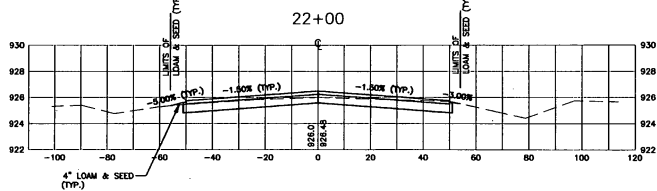
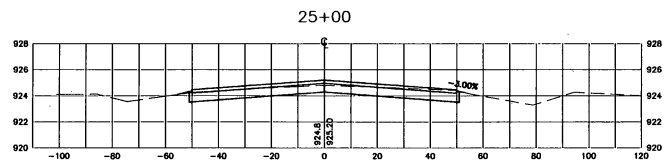
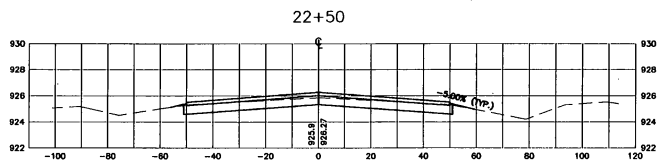
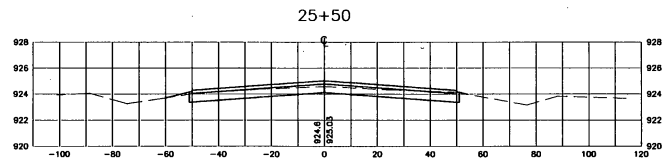
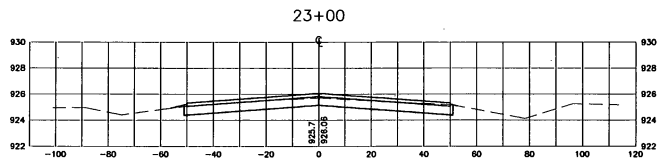
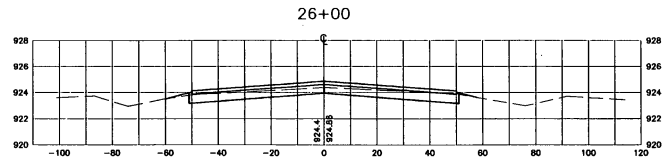
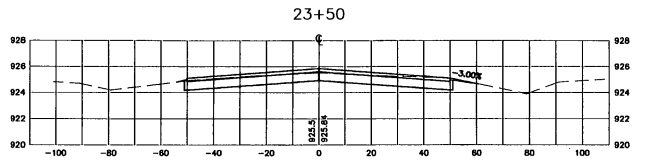
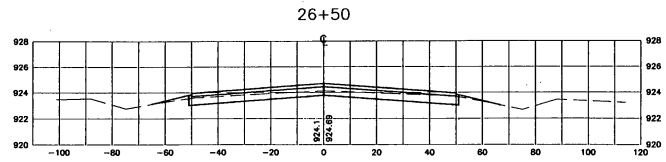
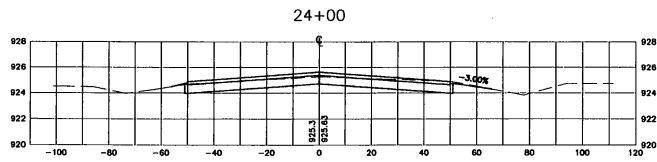
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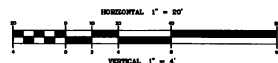
VERMONT AGENCY OF
 TRANSPORTATION
 COVENTRY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 CROSS SECTIONS RW 18-36
 STA. 17+00 TO 21+50

DESIGN BY LJP	DATE MAR. 2000
CHECKED BY JJA	PROJ. NO. N15500
PROJ. ENG. JJA	DRAW. NO. 1
SHEET XS-2	

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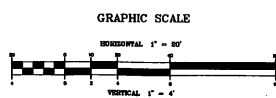
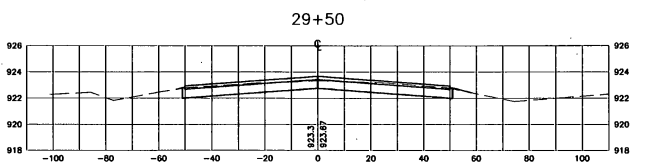
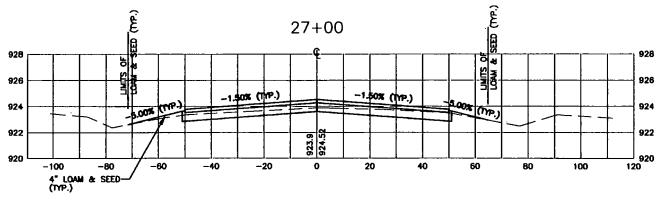
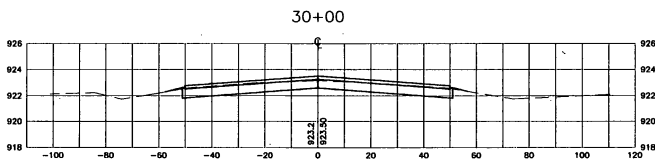
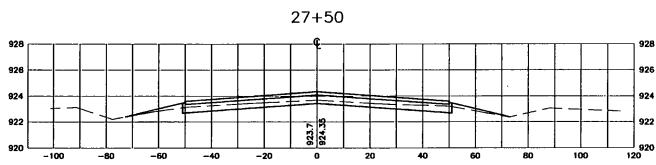
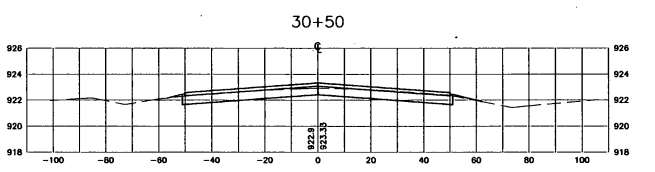
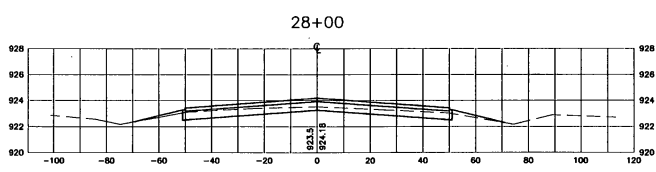
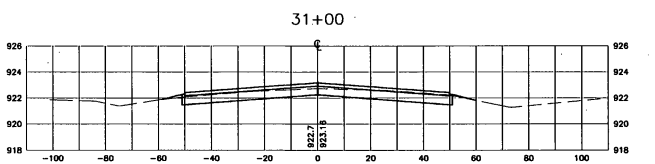
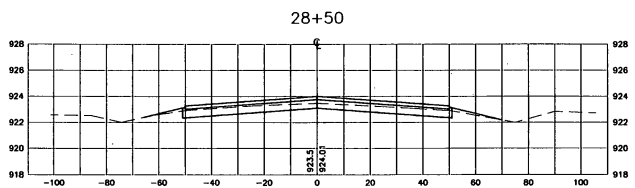
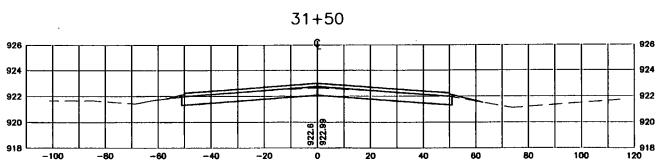
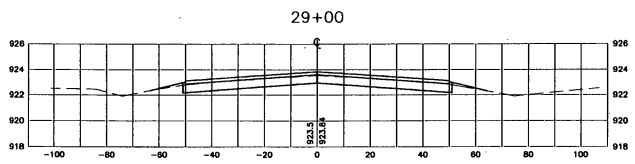
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VERMONT AGENCY OF
 TRANSPORTATION
 COVENTRY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 CROSS SECTIONS RW 18-36
 STA. 22+00 TO 26+50

DESIGN BY JJP	DATE MAR. 2000
DRAWN BY JVA	PROJ. NO. N15500
PROJ. ENG. JVA	DRAW. NO. 1
SHEET XS-3	

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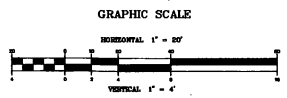
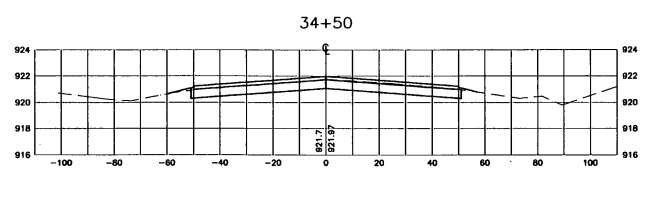
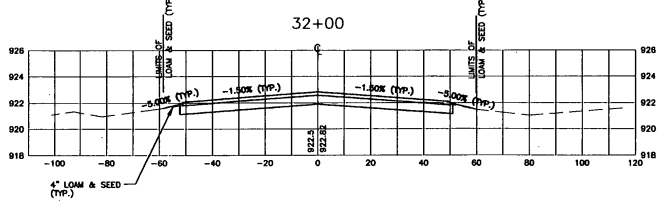
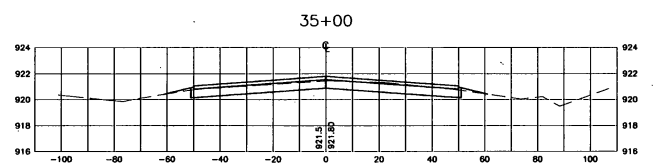
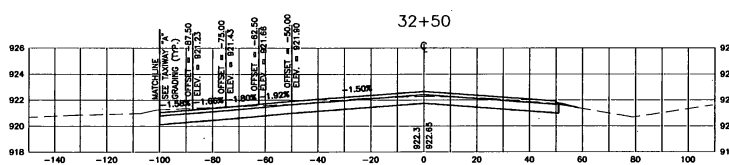
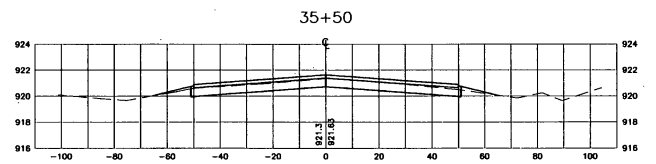
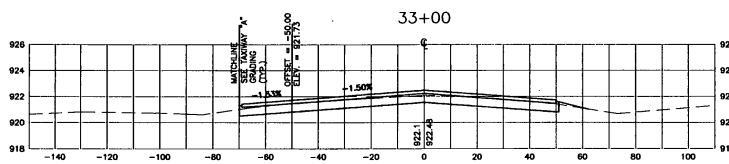
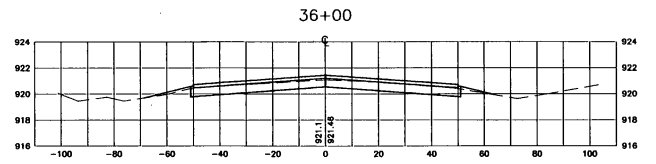
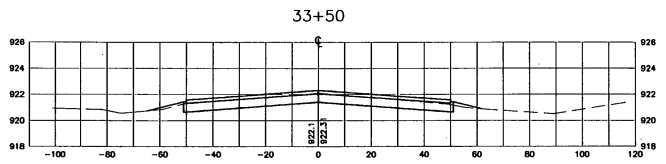
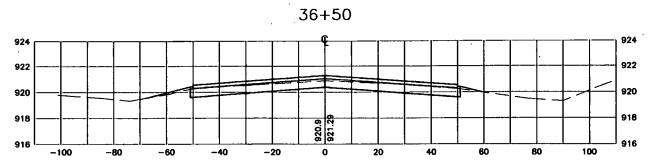
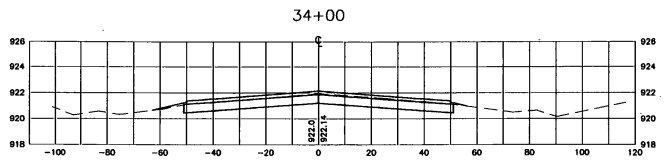
NO.	DATE	BY	CHKD.	REVISIONS
1	1/18/01	VAQT	COMMENTS AND SURVEY ADJUSTMENTS	MEL SJR

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 engineering planting management development

VERMONT AGENCY OF TRANSPORTATION
 GOVT. VERNON, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 CROSS SECTIONS RW 18-36
 STA. 27+00 TO 31+50

DESIGN BY JJP	DATE MAR. 2000
DRAWN BY	PROJ. NO. N15500
PREP. ENG. JAA	DRAW. NO. 1
SHEET XS-4	

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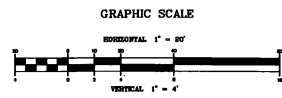
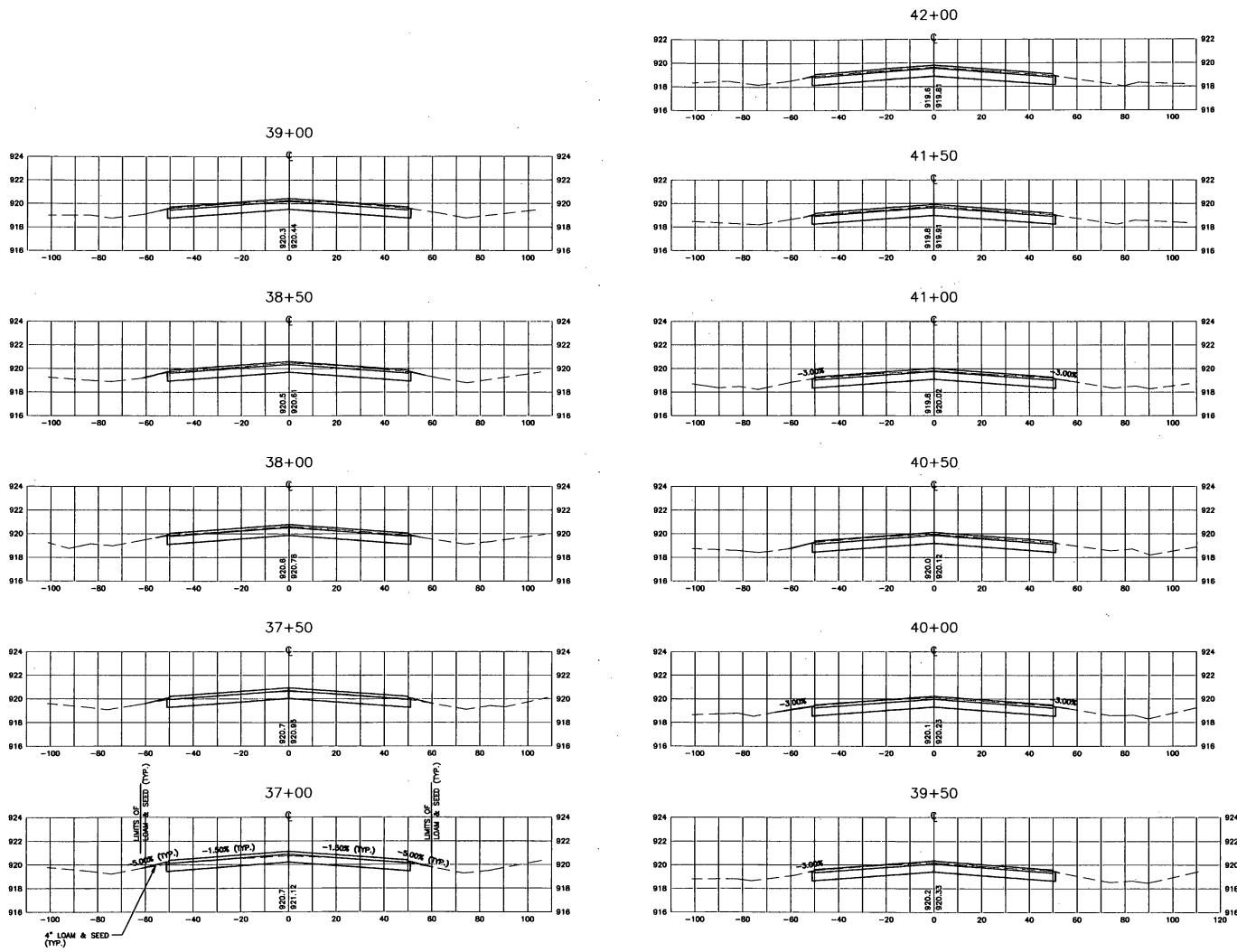
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1	11/18/01	JAA		VOI COMMENTS AND SURVEY ADJUSTMENTS

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VERMONT AGENCY OF TRANSPORTATION
 COVENTRY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 CROSS SECTIONS RW 18-36
 STA. 32+00 TO 36+50

DESIGN BY LJP	TITLE MAR. 2000
CHECKED BY JAA	PROJ. NO. N15500
PROJ. DATE JAA	DRAW. NO. 1
SHEET XS-5	

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NO.	DATE	BY	CHK'D	REVISIONS	MDL	SUR
1	1/16/01			WADT COMMENTS AND SURVEY ADJUSTMENTS		

DuBois King

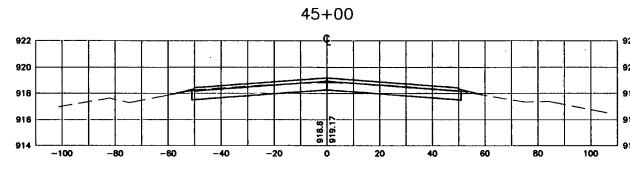
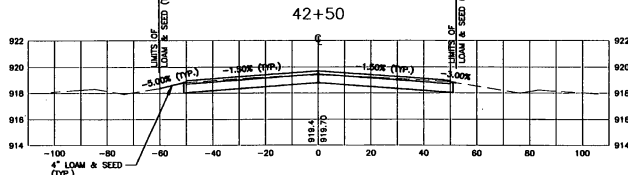
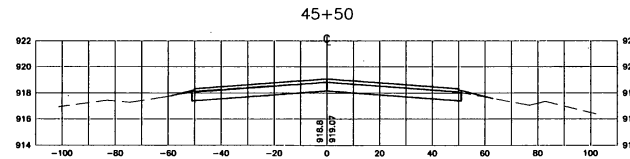
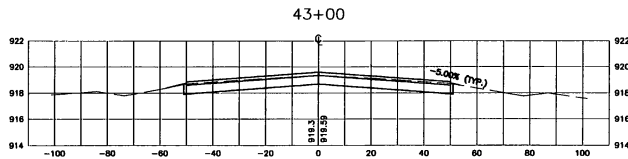
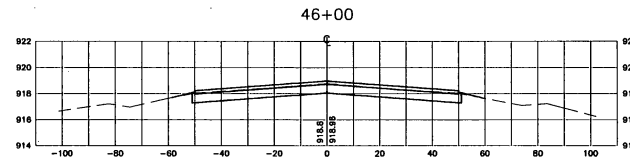
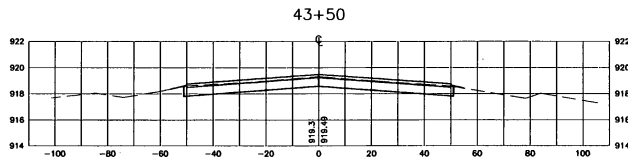
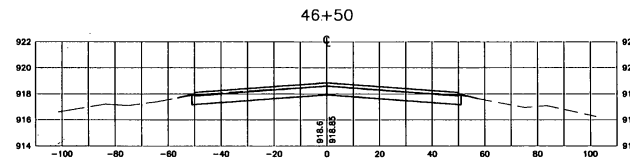
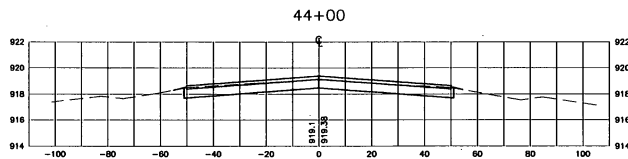
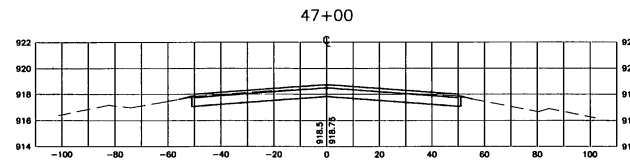
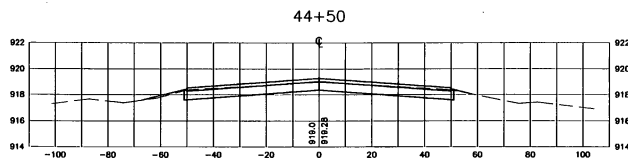
engineering planning management development

VERMONT AGENCY OF
TRANSPORTATION
COVENTRY, VERMONT

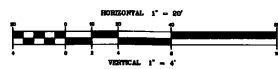
NEWPORT STATE AIRPORT
RUNWAY 18-36 RECONSTRUCTION
CROSS SECTIONS RW 18-36
STA. 37+00 TO 42+00

DESIGN BY JJP	DATE MAR. 2000
CHECKED BY	PROJ. NO. N15500
TRAC. ENG. JAA	DRAW. NO. 1
SHEET XS-6	

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GRAPHIC SCALE



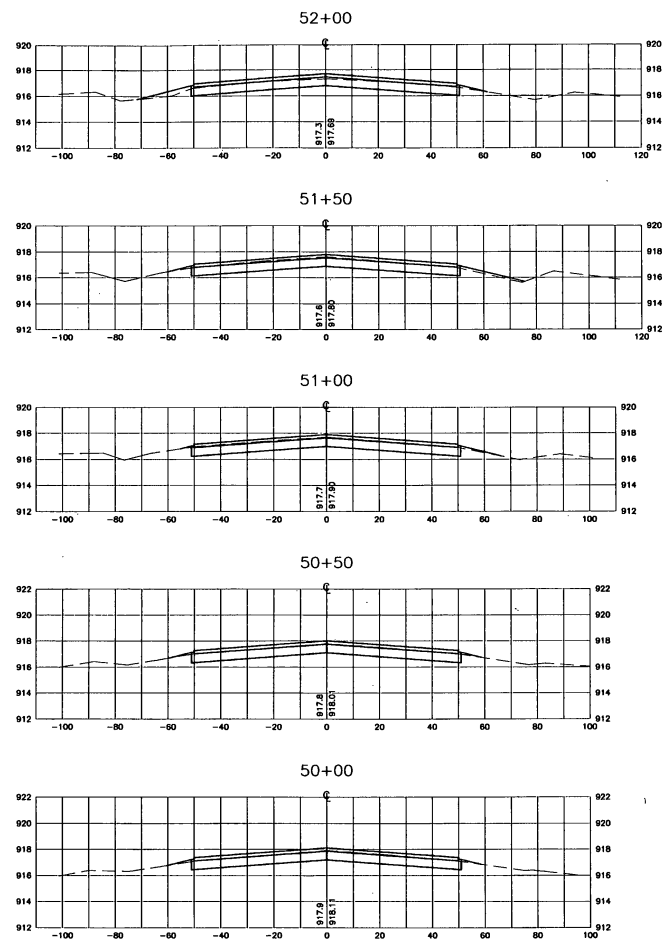
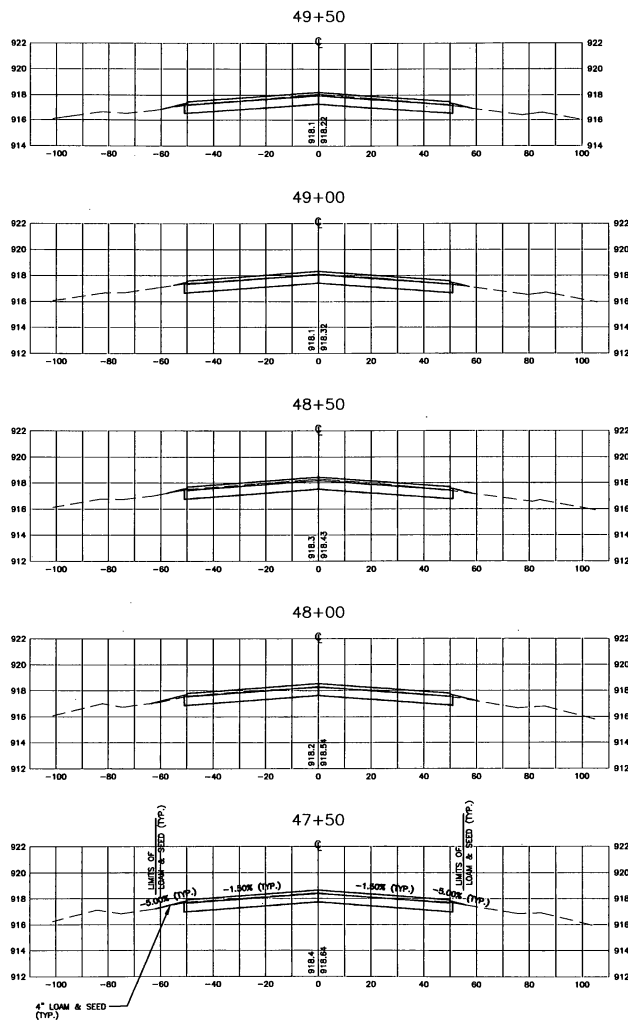
NO.	DATE	BY	CHK'D	REVISIONS
1	1/18/01			NOT COMMENTS AND SURVEY ADJUSTMENTS

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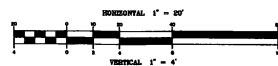
VERMONT AGENCY OF
 TRANSPORTATION
 COVENTRY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 CROSS SECTIONS RW 18-36
 STA. 42+50 TO 47+00

DESIGN BY JJP	DATE MAR. 2000
DRAWN BY JAA	PROJ. NO. NT15500
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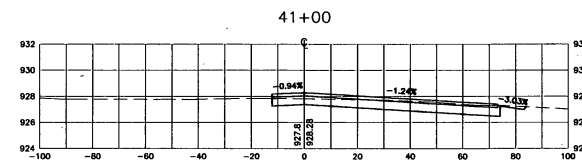
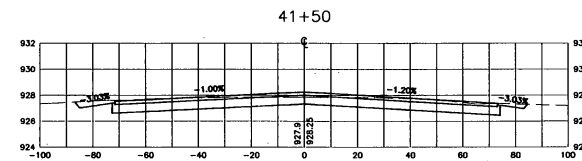
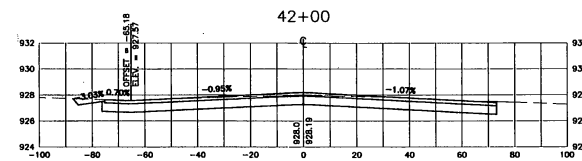
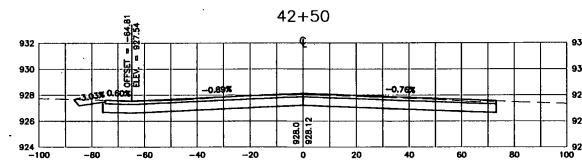
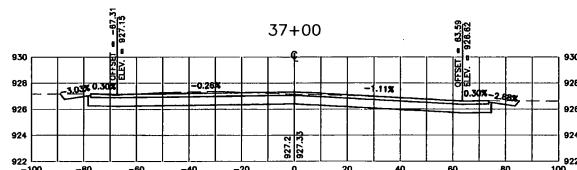
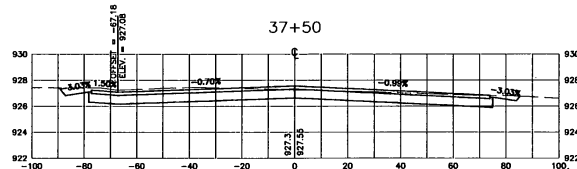
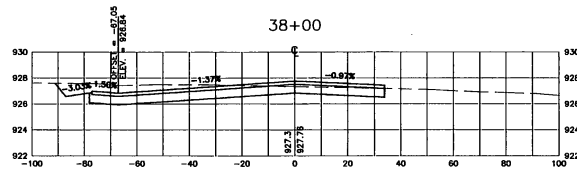
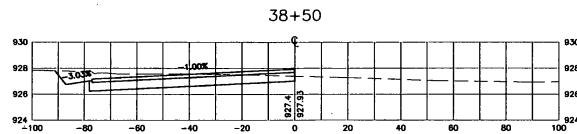
NO.	DATE	REVISIONS	BY	CHKD
1	1/15/01	VADT COMMENTS AND SURVEY ADJUSTMENTS	MDL	SJR

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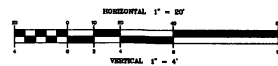
VERMONT AGENCY OF
 TRANSPORTATION
 COVENTRY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 CROSS SECTIONS RW 18-36
 STA. 47+50 TO 52+00

DESIGN BY JJP	DATE MAR. 2000
DRAWN BY JAA	PROJ. NO. W15500
SHEET NO. 1	SHEET XS-8

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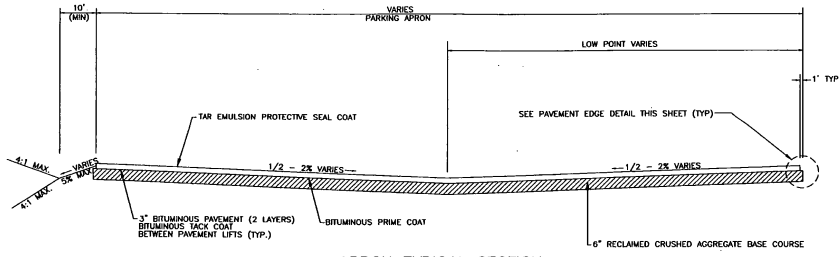
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1	1/18/01	AVOT COMMENTS AND SURVEY ADJUSTMENTS	MDL SJR
		REVISIONS	BY

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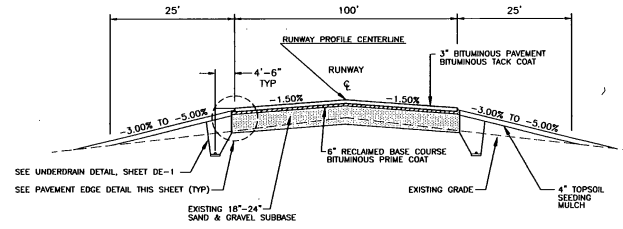
VERMONT AGENCY OF
 TRANSPORTATION
 COVENTRY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 CROSS SECTIONS RW 5-23
 STA. 37+00 TO 38+50 & 41+00 TO 42+50

DESIGN BY	DATE
JJP	MAR. 2000
CHECKED BY	PROJECT NO.
JAA	W15500
DRAWN BY	DRAWN DATE
JAA	1

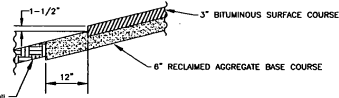
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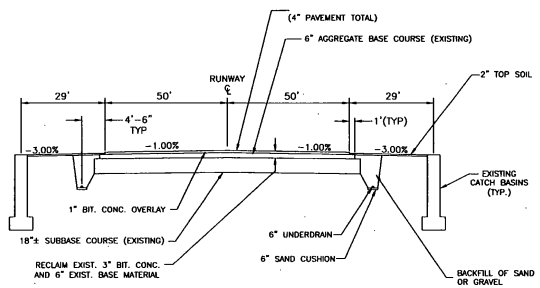
APRON TYPICAL SECTION
NOT TO SCALE



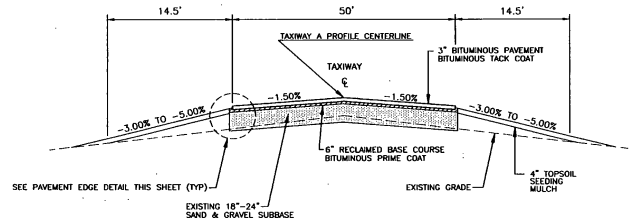
RUNWAY TYPICAL SECTION
NOT TO SCALE



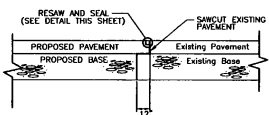
PAVEMENT EDGE DETAIL
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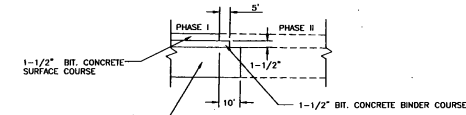
EXISTING TYPICAL SECTION
NOT TO SCALE



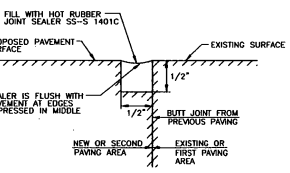
TAXIWAY A TYPICAL SECTION
NOT TO SCALE



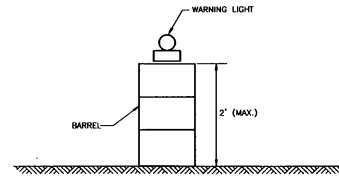
SAWCUT JOINT DETAIL
NOT TO SCALE



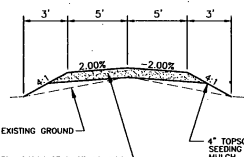
RUNWAY PHASE PAVEMENT MATCH
NOT TO SCALE



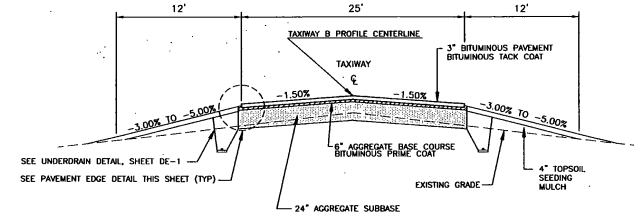
RESAW AND SEAL DETAIL
NOT TO SCALE



LIGHTED BARRICADES
NOT TO SCALE



TYPICAL SECTION GRAVEL SERVICE ROAD
NOT TO SCALE



TAXIWAY B TYPICAL SECTION
NOT TO SCALE

NOTE:
SECTIONS 12+00 TO 28+00 HAS 3\"/>

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NO.	DATE	REVISIONS	BY	CHK'D
1	1/18/01	WAT COMMENTS AND SURVEY ADJUSTMENTS	MCL	SUR

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VERMONT AGENCY OF TRANSPORTATION
CONVENTRY, VERMONT
NEWPORT STATE AIRPORT
RUNWAY 18-36 RECONSTRUCTION
TYPICAL SECTION & PAVING DETAILS

DESIGN BY	DATE
JJP	MAR. 2000
CHECKED BY	PROJECT NO.
JAA	N15500
DRAWN BY	DRAWING NO.
JAA	1

SHEET TS-1



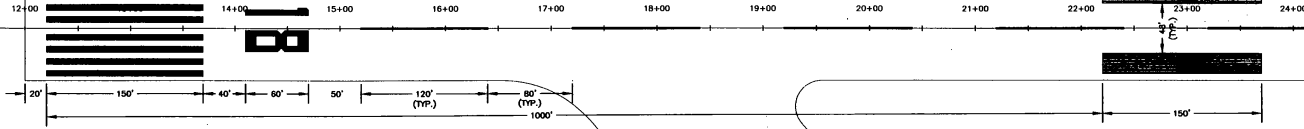
PROPOSED THRESHOLD MARKINGS
(B) 5.75" WIDE STRIPED STRIPES
WITH (A) 5.75" WIDE
SEE DETAIL SHEET DE-3

MATCH LINE TO SHEET PM-2

REMARK IN KIND RUNWAY 9-23 CENTER
LINE AND SHOULDER MARKINGS
IN DISTURBED AREAS ONLY

8" TAXIWAY LEAD IN LINE NOT TO
EXTEND INTO RUNWAY 18-36

PROPOSED AIDING POINT (TYP.)
15' WIDE STRIPED STRIPES
SEE DETAIL SHEET DE-3



MATCH LINE

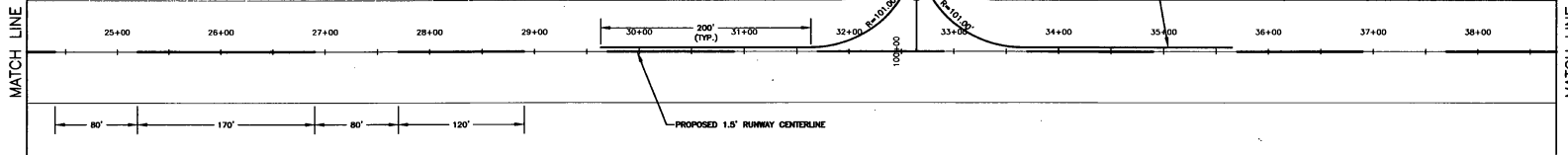
REMARK IN KIND RUNWAY 9-23 CENTER
LINE AND SHOULDER MARKINGS
IN DISTURBED AREAS ONLY

TAXIWAY A
MATCH LINE TO SHEET PM-2

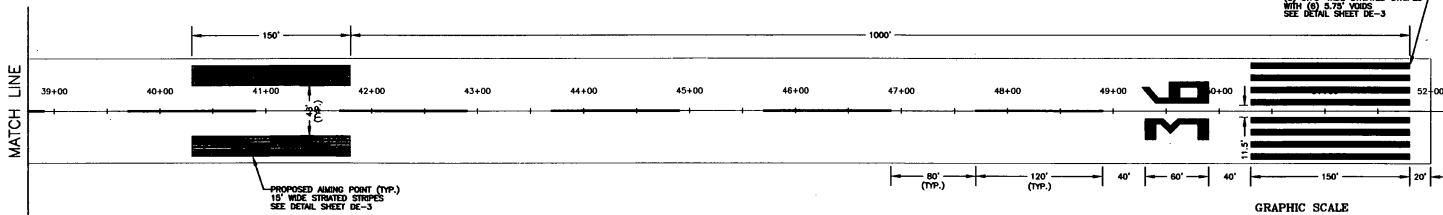
PROPOSED HOLD BAR
125' FROM RUNWAY 18-36 CENTERLINE
SEE DETAIL SHEET DE-3

8" TAXIWAY LEAD IN LINE (TYP.)
SEE DETAIL SHEET DE-3

MATCH LINE



MATCH LINE



PROPOSED THRESHOLD MARKINGS
(B) 5.75" WIDE STRIPED STRIPES
WITH (A) 5.75" WIDE
SEE DETAIL SHEET DE-3

PROPOSED AIDING POINT (TYP.)
15' WIDE STRIPED STRIPES
SEE DETAIL SHEET DE-3

GRAPHIC SCALE



NOTES:

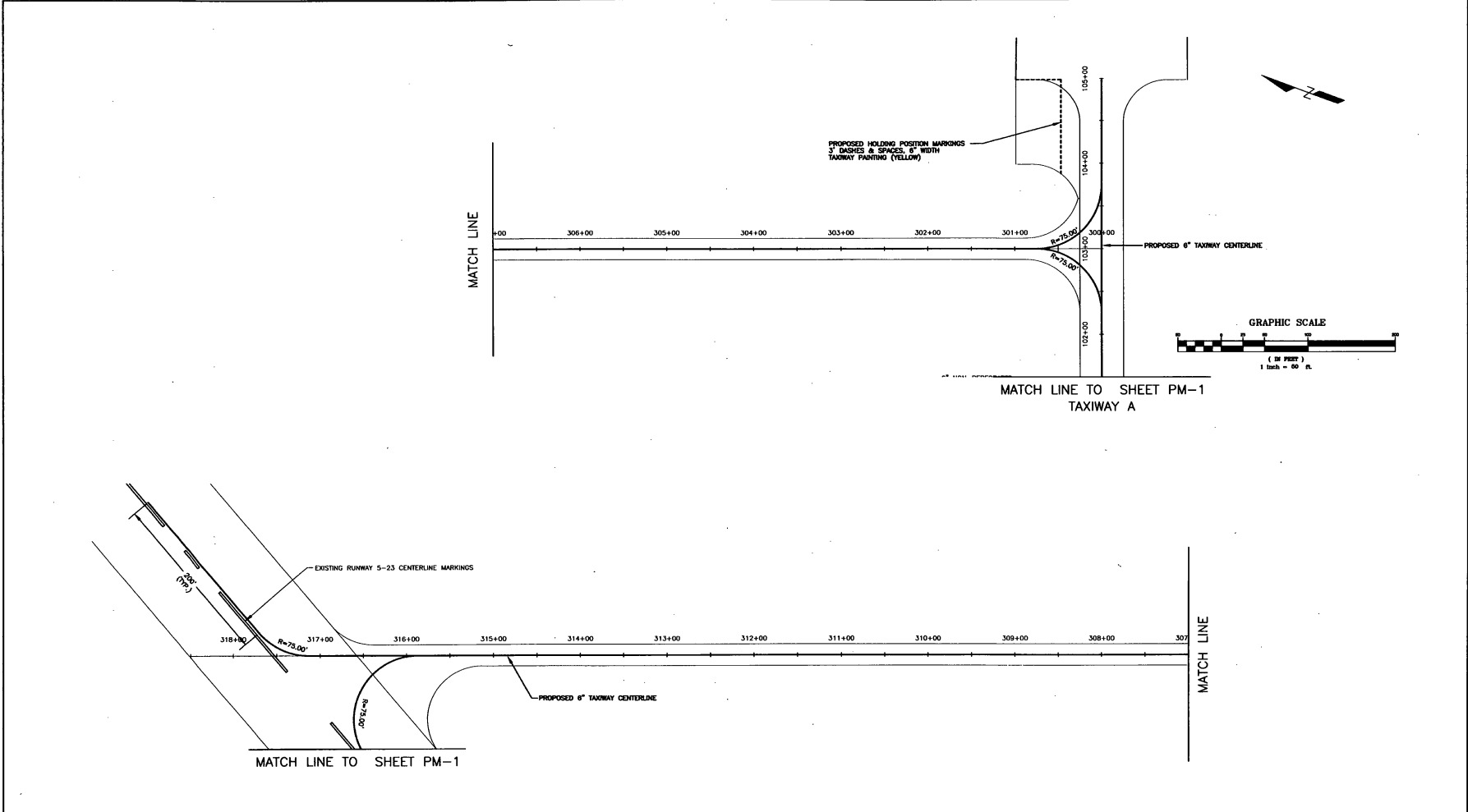
1. ALL RUNWAY MARKINGS, EXCEPT CENTERLINE STRIPES, SHALL BE STRIPED-WHITE. CENTERLINE STRIPES TO BE SOLID-WHITE (SEE SHEET DE-3).
2. ALL TAXIWAY MARKINGS AND STRIPES SHALL BE SOLID-YELLOW, INCLUDING THOSE PORTIONS WHICH ENTER THE RUNWAY.
3. PAINT SHALL NOT BE APPLIED UNTIL THE LAYOUT AND SURFACE CONDITIONS OF THE PAVEMENT IS APPROVED BY THE ENGINEER.

NO.	DATE	REVISIONS	BY	CHK'D

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VERMONT AGENCY OF
TRANSPORTATION
COVENTRY, VERMONT
NEWPORT STATE AIRPORT
RUNWAY 18-36 RECONSTRUCTION
PAVEMENT MARKING DETAILS
RUNWAY 18-36

DESIGNED BY	DATE
DRAWN BY	MAR. 2000
PROJ. ENG.	PROJ. NO.
JAA	N15500
	DRAW. NO.
	1
	SHEET PM-1



- NOTES:**
1. ALL RUNWAY MARKINGS, EXCEPT CENTERLINE STRIPES, SHALL BE STRIATED-WHITE. CENTERLINE STRIPES TO BE SOLID-WHITE (SEE SHEET DC-3).
 2. ALL TAXIWAY MARKINGS AND STRIPES SHALL BE SOLID-YELLOW, INCLUDING THOSE PORTIONS WHICH ENTER THE RUNWAY.
 3. PAINT SHALL NOT BE APPLIED UNTIL THE LAYOUT AND SURFACE CONDITIONS OF THE PAVEMENT IS APPROVED BY THE ENGINEER.

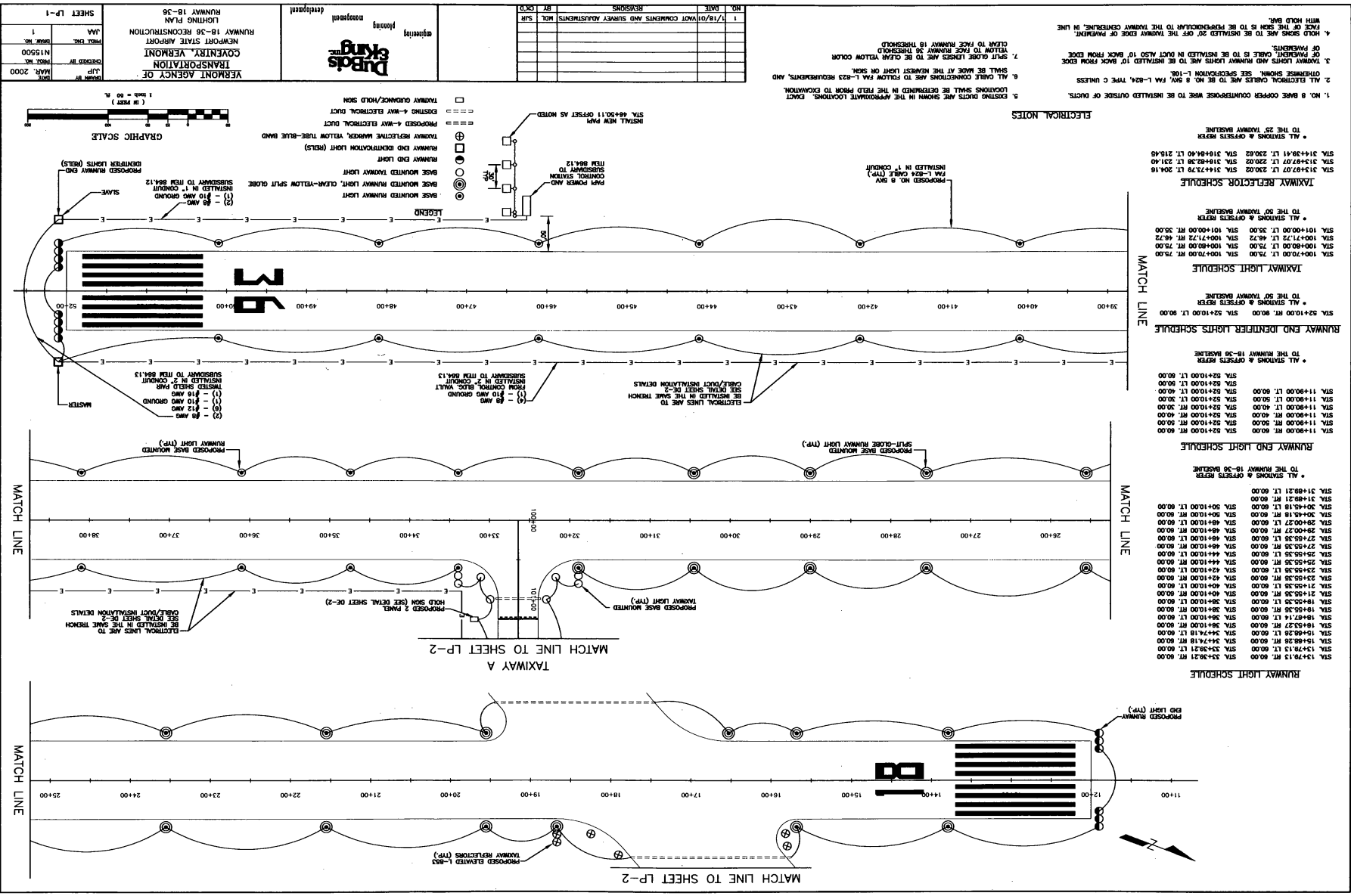
NO.	DATE	REVISIONS	BY	CHK'D

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VERMONT AGENCY OF TRANSPORTATION
 GOVERNOR, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 PAVEMENT MARKING DETAILS
 TAXIWAY & HOLDING BAY

DRAWN BY JUP	DATE MAR. 2000
CHECKED BY	PROJ. NO. N15500
FIELD ENG. JAA	DRAW. NO. 1
SHEET PM-2	

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DATE	NO.	REVISIONS

Vermont Agency of Transportation
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 LMA
 PROJECT NO. N15500
 SHEET LP-1

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 engineering
 development

- ELECTRICAL NOTES**
- NO. 8 BASE COPPER CONDUIT SHALL BE INSTALLED OUTSIDE OF PAVEMENT. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD PRIOR TO INSTALLATION.
 - ALL ELECTRICAL CABLES ARE TO BE NO. 8 AWG. TYPE C UNLESS OTHERWISE SHOWN. SEE SPECIFICATION 1-108.
 - TAXIWAY LIGHTS AND RUNWAY LIGHTS ARE TO BE INSTALLED 10' BACK FROM EDGE OF PAVEMENT.
 - SPILT GLOBE LIGHTS ARE TO BE INSTALLED IN DUCT ALSO TO BE CLEAN YELLOW COLOR.
 - FACE OF THE SIGN IS TO BE PERPENDICULAR TO THE TAXIWAY CENTERLINE. IN LINE WITH ROAD BAY.

TAXIWAY REFLECTOR SCHEDULE

ALL STATIONS & OFFSETS REFER TO THE 50' TAXIWAY BASELINE

STA. 31+87.07 LT. 20.02	STA. 31+87.28 LT. 20.16
STA. 31+88.41 LT. 20.02	STA. 31+88.40 LT. 20.00

TAXIWAY LIGHT SCHEDULE

ALL STATIONS & OFFSETS REFER TO THE 50' TAXIWAY BASELINE

STA. 100+70.00 LT. 75.00	STA. 100+70.00 RT. 75.00
STA. 100+80.00 LT. 75.00	STA. 100+80.00 RT. 75.00
STA. 100+90.00 LT. 75.00	STA. 100+90.00 RT. 75.00
STA. 101+00.00 LT. 75.00	STA. 101+00.00 RT. 75.00

RUNWAY END IDENTIFIER LIGHTS SCHEDULE

ALL STATIONS & OFFSETS REFER TO THE 50' TAXIWAY BASELINE

STA. 52+10.00 RT. 90.00	STA. 52+10.00 LT. 90.00
-------------------------	-------------------------

RUNWAY END LIGHT SCHEDULE

ALL STATIONS & OFFSETS REFER TO THE RUNWAY 18-36 BASELINE

STA. 11+40.00 RT. 60.00	STA. 11+40.00 LT. 60.00
STA. 11+60.00 RT. 60.00	STA. 11+60.00 LT. 60.00
STA. 11+80.00 RT. 60.00	STA. 11+80.00 LT. 60.00
STA. 12+00.00 RT. 60.00	STA. 12+00.00 LT. 60.00

RUNWAY LIGHT SCHEDULE

ALL STATIONS & OFFSETS REFER TO THE RUNWAY 18-36 BASELINE

STA. 13+78.13 RT. 80.00	STA. 13+78.13 LT. 80.00
STA. 15+68.28 RT. 80.00	STA. 15+68.28 LT. 80.00
STA. 18+77.14 RT. 80.00	STA. 18+77.14 LT. 80.00
STA. 19+55.35 RT. 80.00	STA. 19+55.35 LT. 80.00
STA. 21+55.35 RT. 80.00	STA. 21+55.35 LT. 80.00
STA. 23+55.35 RT. 80.00	STA. 23+55.35 LT. 80.00
STA. 25+55.35 RT. 80.00	STA. 25+55.35 LT. 80.00
STA. 27+55.35 RT. 80.00	STA. 27+55.35 LT. 80.00
STA. 29+00.27 RT. 80.00	STA. 29+00.27 LT. 80.00
STA. 29+45.18 RT. 80.00	STA. 29+45.18 LT. 80.00
STA. 31+88.21 RT. 80.00	STA. 31+88.21 LT. 80.00

TAXIWAY A
MATCH LINE TO SHEET LP-2

MATCH LINE

MATCH LINE

MATCH LINE

MATCH LINE TO SHEET LP-2

TAXIWAY LIGHT SCHEDULE

STA. 102+25.04 LT. 35.00	STA. 102+25.04 RT. 35.00
STA. 103+05.89 LT. 35.00	STA. 103+05.89 RT. 35.00
STA. 103+76.28 LT. 52.81	STA. 104+05.40 RT. 35.00
STA. 103+65.70 LT. 80.00	STA. 104+76.89 RT. 46.72
	STA. 104+85.40 RT. 75.00

* ALL STATIONS & OFFSETS REFER TO THE 25' TAXIWAY CENTERLINE *

TAXIWAY REFLECTOR SCHEDULE

STA. 300+90.38 LT. 57.68	STA. 315+34.84 LT. 22.80
STA. 300+85.03 RT. 53.68	STA. 315+34.84 RT. 22.80
STA. 300+87.50 LT. 22.80	STA. 315+13.34 LT. 22.80
STA. 300+97.50 RT. 22.80	STA. 315+13.34 RT. 22.80
STA. 302+43.84 LT. 22.80	STA. 315+13.87 LT. 186.22
STA. 302+43.84 RT. 22.80	STA. 315+38.28 LT. 85.88
STA. 304+43.34 LT. 22.80	STA. 315+00.80 LT. 102.28
STA. 304+42.34 RT. 22.80	STA. 315+03.82 LT. 108.87
STA. 306+85.84 LT. 22.80	STA. 315+00.81 LT. 85.77
STA. 306+85.84 RT. 22.80	STA. 315+38.70 RT. 22.80
STA. 307+48.34 LT. 22.80	STA. 315+00.89 RT. 27.44
STA. 307+48.34 RT. 22.80	STA. 315+03.89 RT. 84.10
STA. 309+77.84 LT. 22.80	STA. 315+71.30 RT. 47.74
STA. 309+77.84 RT. 22.80	STA. 315+79.03 RT. 41.33
STA. 311+05.34 LT. 22.80	STA. 317+46.17 LT. 140.87
STA. 311+05.34 RT. 22.80	STA. 318+00.38 LT. 83.78

* ALL STATIONS & OFFSETS REFER TO THE 50' TAXIWAY CENTERLINE *

LEGEND

- ⊙ BASE MOUNTED RUNWAY LIGHT
- ⊙ BASE MOUNTED RUNWAY LIGHT, CLEAR-YELLOW SPLIT GLOBE
- ⊙ BASE MOUNTED TAXIWAY LIGHT
- ⊙ RUNWAY END LIGHT
- ⊙ RUNWAY END IDENTIFICATION LIGHT (HEELS)
- ⊕ TAXIWAY REFLECTIVE MARKER, YELLOW TUBE-BLUE BAND
- ⊕ PROPOSED 4-WAY ELECTRICAL DUCT
- ⊕ EXISTING 4-WAY ELECTRICAL DUCT
- TAXIWAY GUIDANCE/HOLD SIGN

ELECTRICAL NOTES

- NO. 8 BARE COPPER COUNTERPOISE WIRE TO BE INSTALLED OUTSIDE OF DUCT.
- ALL ELECTRICAL CABLES ARE TO BE NO. 8 BRY, FMA L-854, TYPE C UNLESS OTHERWISE SHOWN. SEE SPECIFICATION L-105.
- TAXIWAY LIGHTS AND RUNWAY LIGHTS ARE TO BE INSTALLED 10' BACK FROM EDGE OF PAVEMENT. CABLE IS TO BE INSTALLED IN DUCT ALSO 10' BACK FROM EDGE OF PAVEMENT.
- HOLD SIGNS ARE TO BE INSTALLED 20' OFF THE TAXIWAY EDGE OF PAVEMENT. FACE OF THE SIGN IS TO BE PERPENDICULAR TO THE TAXIWAY CENTERLINE, IN LINE WITH HOLD BAR.
- EXISTING DUCTS ARE SHOWN IN THE APPROXIMATE LOCATIONS. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD PRIOR TO EXCAVATION.
- ALL CABLE CONNECTIONS ARE TO FOLLOW FMA L-853 REQUIREMENTS, AND SHALL BE MADE AT THE NEAREST LIGHT OR SIGN.

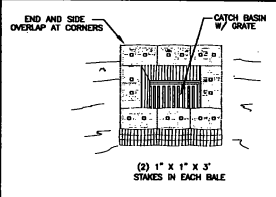
NO.	DATE	REVISIONS	BY	CHKD

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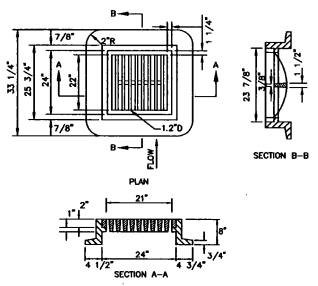
VERMONT AGENCY OF TRANSPORTATION
 COVENTRY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 LIGHTING PLAN
 EXISTING & TEMPORARY TAXIWAYS

DESIGN BY: JJP DATE: MAR, 2000
 CHECKED BY: JAA DRAWING NO.: NT15500
 PREP. ENG.: JAA DRAW. NO.: 1
 SHEET LP-2

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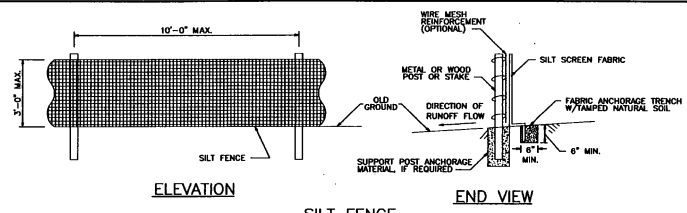


STRAW OR HAY BALE BARRIER
NOT TO SCALE



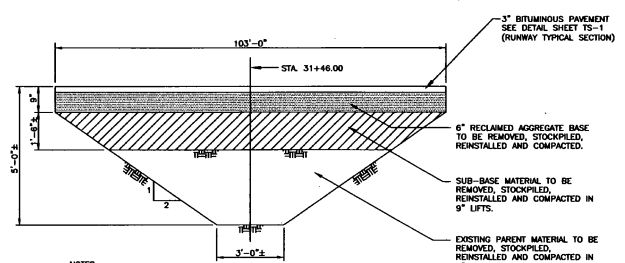
GRATE & FRAME DETAIL
NOT TO SCALE

- NOTES:**
- GRATES AND FRAMES TO BE CAST IRON, TYPE A AND SHALL MEET VOT SPECIFICATION 604.10
 - SUPPLIER SHALL CERTIFY THAT THE GRATE/FRAME ARE CAPABLE OF SUPPORTING 28,500 LB. WHEEL LOAD.



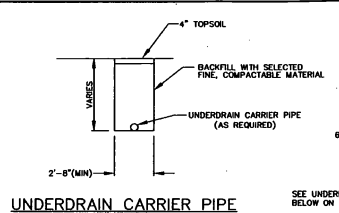
SILT FENCE
NOT TO SCALE

- NOTES:**
- SILT FENCE SHALL CONSIST OF AN APPROVED PREFABRICATED SILT FENCE WITH FABRIC ATTACHED TO POSTS AND SHALL BE ASSEMBLED IN THE FIELD ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. WIRE MESH REINFORCEMENT AND/OR CLOSER POST SPACING MAY BE ORDERED BY THE ENGINEER IN AREAS WHERE HIGH RUNOFF VOLUMES ARE ANTICIPATED, OR IN LOW SPOTS WHERE SEDIMENT WILL BE COLLECTED.
 - PRIOR TO BEGINNING EARTHWORK OPERATIONS AT LOCATIONS DIRECTED BY THE ENGINEER, SILT FENCE SHALL BE CONSTRUCTED ALONG THE TOE OF PROPOSED EMBANKMENT SLOPES AT THE LIMITS OF CLEARING.

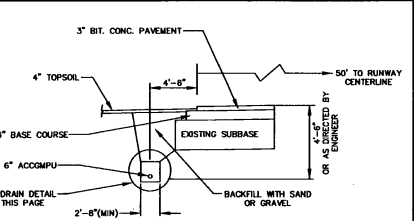


- NOTES:**
- PAVEMENT REPAIR TO BE DIRECTED BY ENGINEER
 - ALL EXCAVATION AND BACKFILL PAID FOR UNDER UNCLASSIFIED EXCAVATION.

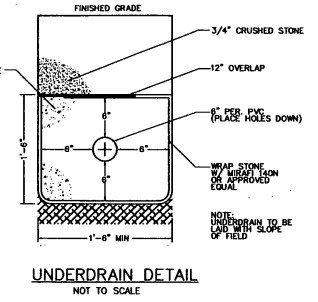
PAVEMENT REPAIR DETAIL
NOT TO SCALE



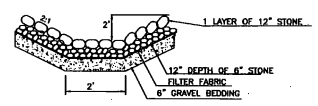
UNDERDRAIN CARRIER PIPE
NOT TO SCALE



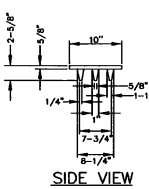
UNDERDRAIN SECTION
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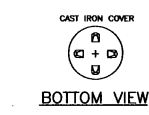
UNDERDRAIN DETAIL
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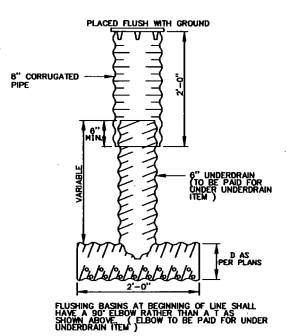
TYPICAL RIPRAP OUTLET
NOT TO SCALE



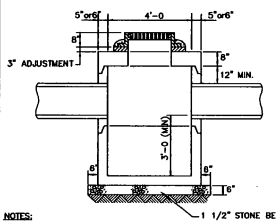
SIDE VIEW



BOTTOM VIEW

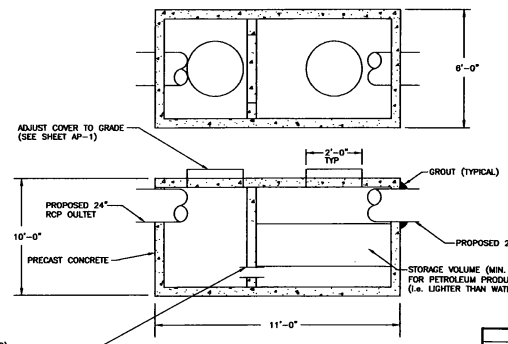


UNDERDRAIN FLUSHING BASIN
NOT TO SCALE



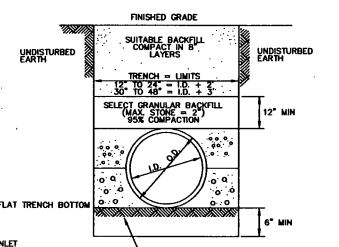
- NOTES:**
- PRECAST WALLS AND BASES SHALL MEET VOT SPECIFICATION 604.10
 - PRECAST REINFORCED CONCRETE TOP, BASE, AND RISER SECTIONS SHALL MEET VOT SPECIFICATION 604.10
 - SEE GRATE & FRAME DETAIL ABOVE.
 - SEE PLANS FOR PIPE INVERTS.

TYPICAL CATCH BASIN
NOT TO SCALE

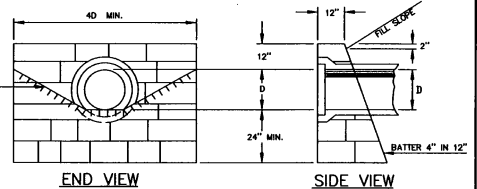


GAS/OIL WATER SEPARATOR
NOT TO SCALE

NOTE: OVERALL DIMENSIONS OF TRAP TO BE 11'-0" L x 8'-0" W x 10'-0" H.



TYPICAL TRENCH DETAIL
NOT TO SCALE



QUANTITY SCHEDULE FOR CEMENT RUBBLE MASONRY

PIPE DIAMETER	12"	15"	18"	24"	30"	36"	42"	48"	54"	60"
C.R.M. QUANTITY	1.0	1.3	1.8	2.7	3.5	4.8	6.4	8.0	10.0	12.3

CEMENT RUBBLE MASONRY STRAIGHT HEADWALL
NOT TO SCALE

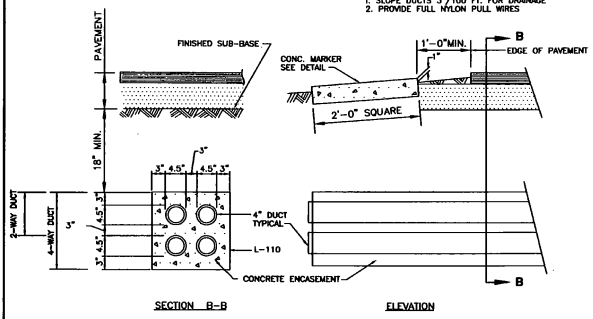
NO.	DATE	BY	CHKD	REVISIONS
1	1/18/01	VAD	COMMENTS AND SURVEY ADJUSTMENTS	MDL SJR

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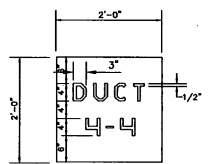
VERMONT AGENCY OF TRANSPORTATION
COVENTRY, VERMONT
NEWPORT STATE AIRPORT
RUNWAY 18-36 RECONSTRUCTION
DRAINAGE & EROSION CONTROL
DETAILS

DRAWN BY: LJP
CHECKED BY: JJA
PROJ. ENG. LJA
DATE: MAR. 2000
PROJ. NO. N15500
DRAW. NO. 1
SHEET DE-1

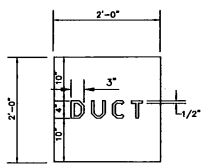
NOTE:
 1. SLOPE DUCTS 3"/100 FT. FOR DRAINAGE
 2. PROVIDE FULL NYLON PULL WIRES



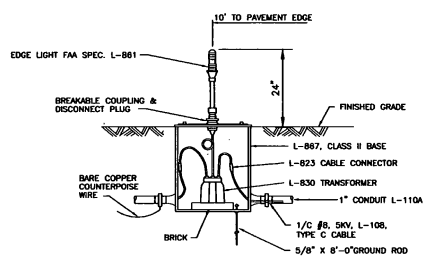
SECTION B-B ELEVATION
DUCT (4-WAY) AND CONCRETE MARKER DETAILS
 NOT TO SCALE



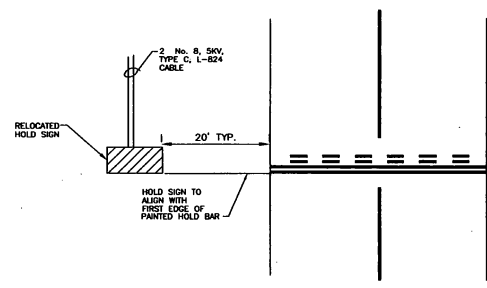
CONCRETE DUCT MARKER
 NOT TO SCALE



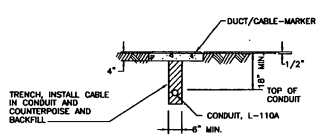
CONCRETE UTILITY DUCT MARKER
 NOT TO SCALE



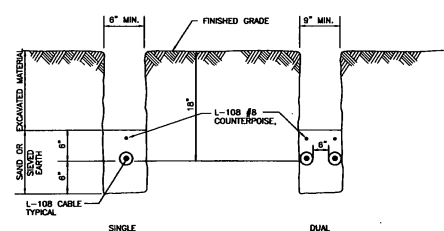
BASE MOUNTED SERIES CIRCUIT
 NOT TO SCALE



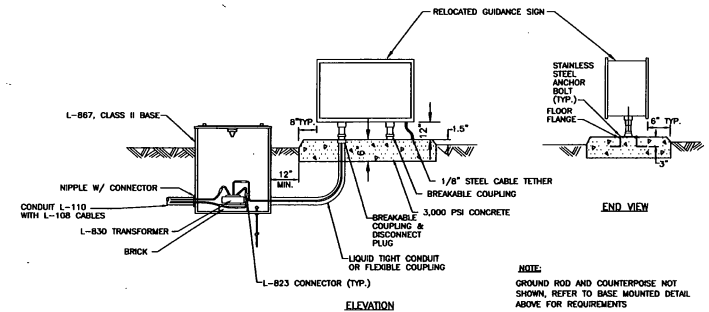
HOLD SIGN LAYOUT DETAIL
 NOT TO SCALE



CABLE/DUCT-MARKER DETAIL
 NOT TO SCALE



CABLE/DUCT INSTALLATION DETAILS
 NOT TO SCALE



GUIDANCE SIGN DETAIL
 NOT TO SCALE

NOTE:
 GROUND ROD AND COUNTERPOISE NOT SHOWN, REFER TO BASE MOUNTED DETAIL ABOVE FOR REQUIREMENTS

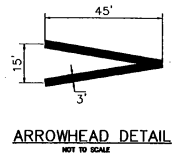
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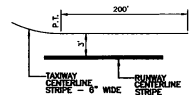
Dubois King
 engineering planning management development

VERMONT AGENCY OF TRANSPORTATION
COVENTRY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 RUNWAY AND TAXIWAY ELECTRICAL DETAILS

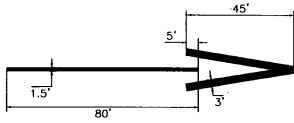
DESIGN BY LJP	DATE MAR. 2000
CHECKED BY JAA	PROJECT NO. N15500
DATE JAN	DRAWING NO. 1
SHEET DE-2	



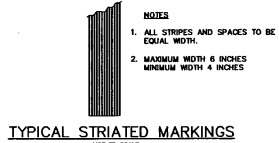
ARROWHEAD DETAIL
NOT TO SCALE



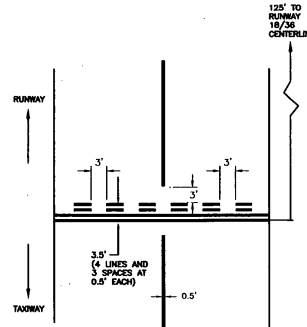
TAXIWAY LEAD-IN LINE DETAIL
NOT TO SCALE



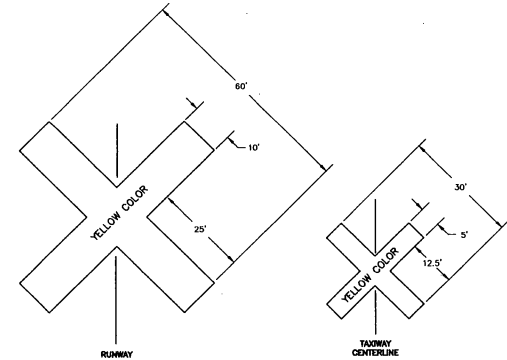
ARROW DETAIL
NOT TO SCALE



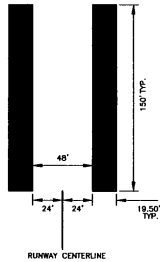
TYPICAL STRIATED MARKINGS
NOT TO SCALE



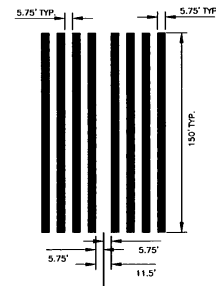
HOLD BAR DETAIL
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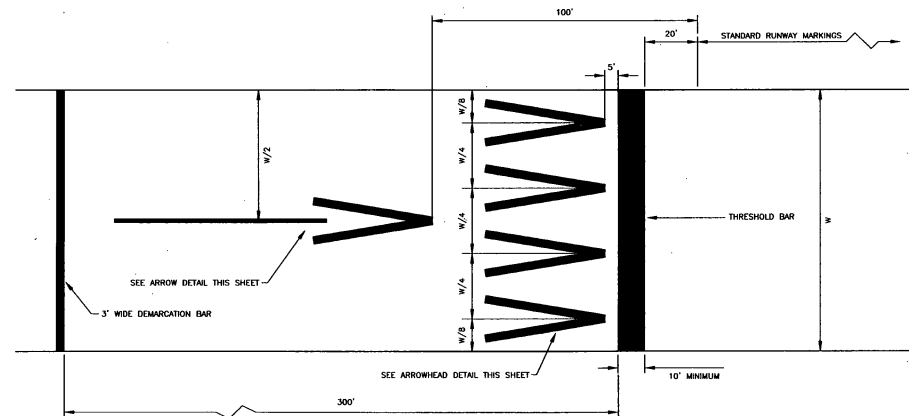
CLOSED RUNWAY AND TAXIWAY MARKINGS
NOT TO SCALE



AIMING POINT DETAIL
NOT TO SCALE

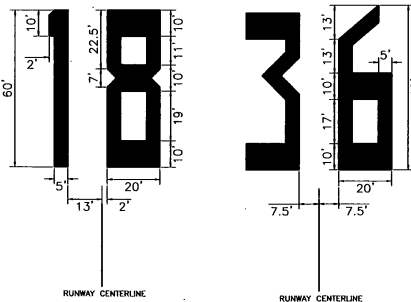


THRESHOLD MARK DETAIL
NOT TO SCALE



DISPLACED THRESHOLD MARKINGS

- NOTES**
- FOUR (4) ARROWHEADS ARE PLACED SYMMETRICALLY ACROSS RUNWAY WITH UNIFORM LATERAL SPACING AS INDICATED.
 - ALL MARKINGS IN THE DISPLACED AREA ARE YELLOW EXCEPT THE THRESHOLD BAR WHICH IS WHITE.



RUNWAY MARKINGS
NOT TO SCALE

NOTES

- ALL RUNWAY MARKINGS ARE WHITE EXCEPT IN THE DISPLACED THRESHOLD AREA.
- FOR RUNWAY LESS THAN 150' IN WIDTH, THE WIDTH OF THE MARKINGS, SPACES BETWEEN MARKINGS AND DISTANCE OF MARKINGS FROM THE RUNWAY EDGES ARE CHANGED PROPORTIONALLY.
- ADJUSTMENTS TO THE LENGTH OF THE CENTERLINE STRIPES AND GAPS, WHERE NECESSARY TO ACCOMMODATE THE RUNWAY LENGTH, ARE MADE NEAR THE RUNWAY MIDPOINT.
- ALL RUNWAY MARKINGS, EXCEPT CENTERLINE, ARE TO BE STRIATED WITH ALL STRIPES AND SPACES EQUAL IN WIDTH (4" TO 6").
- PAINT SHALL NOT BE APPLIED UNTIL THE PREPARED SURFACE CONDITION OF THE EXISTING PAVEMENT HAS BEEN APPROVED BY THE ENGINEER.

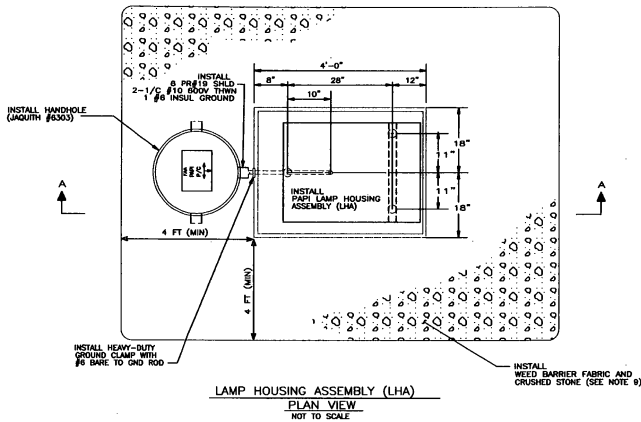
NO.	DATE	REVISIONS	BY	CHK'D

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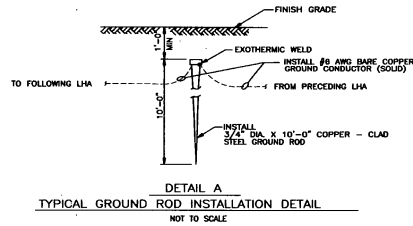
VERMONT AGENCY OF TRANSPORTATION
COVENTRY, VERMONT
NEWPORT STATE AIRPORT
RUNWAY 18-36 RECONSTRUCTION
RUNWAY MARKING DETAILS

DESIGN BY: JAA
CHECKED BY: JAA
PROJECT: JAA
DATE: 11
SHEET: DE-3

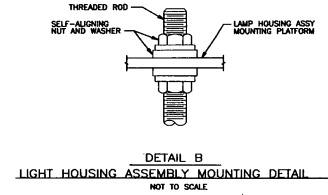
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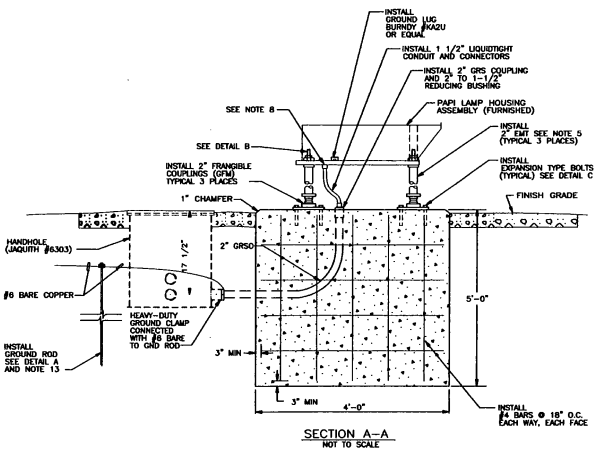
LAMP HOUSING ASSEMBLY (LHA)
PLAN VIEW
NOT TO SCALE



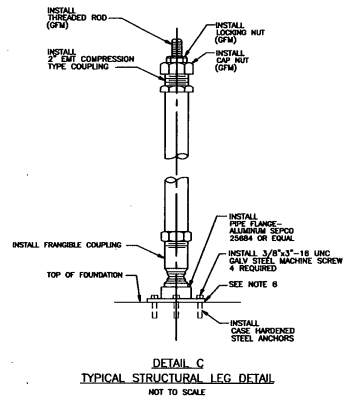
DETAIL A
TYPICAL GROUND ROD INSTALLATION DETAIL
NOT TO SCALE



DETAIL B
LIGHT HOUSING ASSEMBLY MOUNTING DETAIL
NOT TO SCALE



SECTION A-A
NOT TO SCALE



DETAIL C
TYPICAL STRUCTURAL LEG DETAIL
NOT TO SCALE

NOTES

- FOUNDATION DEPTH SHALL BE 6 FEET (MIN). THE BOTTOM OF ALL FOUNDATION EXCAVATIONS SHALL BE FREE OF WATER AND LOOSE EARTH AND SHALL BE COMPACTED TO 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS PER AASHTO T-99, PRIOR TO INSTALLING FOUNDATIONS.
- FORM FOUNDATIONS FULL DEPTH SUCH THAT VERTICAL SURFACES ARE SMOOTH AND RESISTANT TO FROST HEAVES.
- CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE CURRENT ISSUE OF ACI-318; BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. CONCRETE TO DEVELOP MINIMUM STRENGTH OF 3000 PSI IN 28 DAYS WITH MAXIMUM SLUMP OF 3 INCHES AND MAXIMUM AGGREGATE SIZE OF 3/4 INCH. CONCRETE SHALL BE PROTECTED FROM FREEZING DURING AND FOR 7 DAYS AFTER PLACEMENT.
- DRILL HOLES AND INSTALL EXPANSION TYPE ANCHOR BOLTS WHEN PAPI UNITS HAVE BEEN ACCURATELY LOCATED AND AFTER CONCRETE HAS HARDENED SUFFICIENTLY.
- 2" EXT LENGTH SHALL BE SET AS REQUIRED SO THAT THE BEAM CENTERS OF ALL LIGHT UNITS SHALL BE WITHIN +/- 1 INCH OF A HORIZONTAL PLANE. THIS HORIZONTAL PLANE SHALL BE 2'-0" ABOVE THE ELEVATION OF THE RUNWAY CROWN PERPENDICULAR TO THE PAPI UNITS.
- COAT THE FLANGE SURFACE RESTING ON THE CONCRETE WITH AN ASPHALTIC COMPOUND FOR METAL PROTECTION.
- WHERE REQUIRED AT PAPI FOUNDATIONS, FILL SHALL BE PLACED IN LAYERS NOT EXCEEDING 6 INCHES. EACH LAYER SHALL BE THOROUGHLY COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH AASHTO-T99.
- FOLD BACK UNUSED SHIELDED PAPS AND TAPE TO PREVENT WATER INFILTRATION. LEAVE IN THE LHA UNITS.
- WEED BARRIER COVERED WITH A 4 INCH LAYER OF 3/4" CRUSHED STONE SHALL BE PLACED IN THE AREA EXTENDING 4 FEET FROM EACH SIDE OF EACH LHA, POWER AND CONTROL STATION.
- A #8 SOLID BARE COPPER GROUND SHALL RUN THROUGH ALL CONDUITS AND SHALL BE ATTACHED TO GROUND BUSINES AT EACH CONDUIT END AND SHALL BE ATTACHED TO GROUND LIDS IN EACH LHA.
- ALL MATERIAL AND EQUIPMENT NOT LISTED UNDER "FURNISHED MATERIAL" SHALL BE SUPPLIED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL MATERIAL AND EQUIPMENT.
- ALL RIGID CONDUIT FITTINGS, NUTS, BOLTS AND STEEL WORK SHALL BE GALVANIZED, OR STAINLESS STEEL. ALL FITTINGS USED WITH RIGID CONDUIT SHALL BE THREADED TYPE.
- INSTALL GROUND RODS AT THE END OF ALL CABLE RUNS, EVERY 200' ALONG RUNS OR AS DIRECTED ON THE DRAWING.

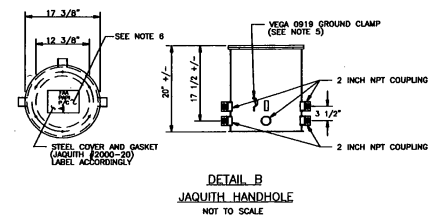
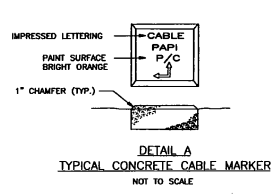
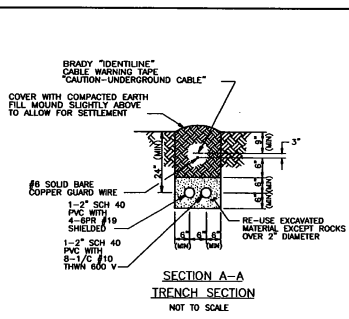
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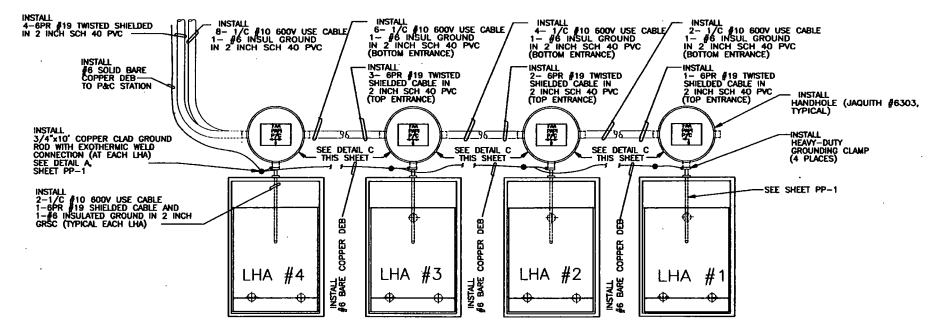
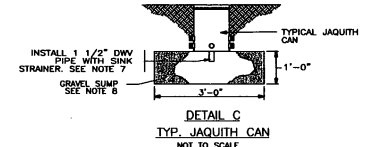
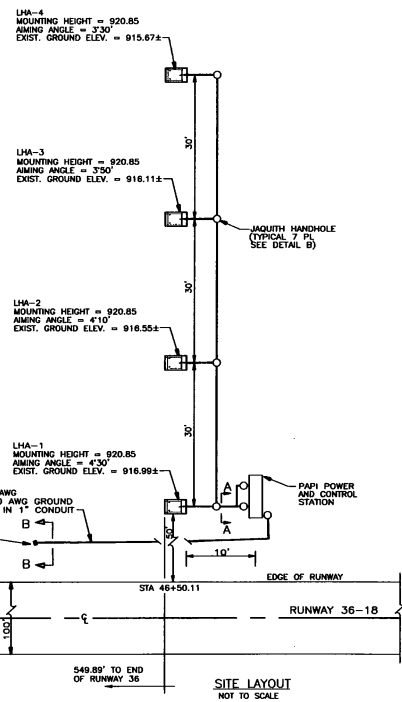
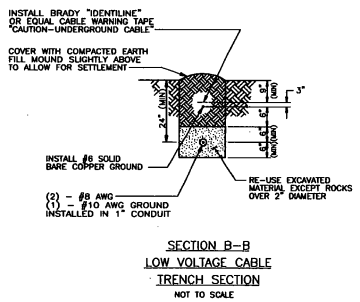
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VERMONT AGENCY OF TRANSPORTATION
COVENTRY, VERMONT
NEWPORT STATE AIRPORT
RUNWAY 18-36 RECONSTRUCTION
PAPI MOUNTING PLAN
SECTIONS AND FOUNDATION DETAILS

DESIGN BY	DATE
JUP	MAR. 2000
CHECKED BY	PROJ. NO.
N15500	N15500
PROJ. TBL.	DRAW. NO.
JAA	1
SHEET PP-1	



- NOTES:**
1. ALL GRCS SWEEPS SHALL HAVE GROUND CLAMPS AND BE CONNECTED TO A GROUND ROD VIA #8 SOLID BARE CU WIRE.
 2. CABLE MARKERS SHALL BE PLACED EVERY 500 FEET ALONG TRENCH AND AT ANY CHANGE IN DIRECTION.
 3. ALL TRENCHES SHALL BE FILLED IN LAYERS NOT EXCEEDING 6" AND EACH LAYER SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY. FILL SHALL BE OF STRUCTURAL NATURE ONLY.
 4. ALL INSULATED CABLE SHALL BE PROPERLY AND PERMANENTLY COLOR CODED AT EACH END PRIOR TO INSTALLATION.
 5. CONTRACTOR SHALL VERIFY THAT GROUND LUGS HAVE BEEN INSTALLED ON BOTH INTERIOR AND EXTERIOR OF JAQUITH CAN. IF CLAMPS DO NOT EXIST, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION.
 6. CONTRACTOR SHALL FURNISH AND INSTALL BRASS IDENTIFICATION PLATES. THESE PLATES SHALL BE 8" X 6" WITH THREE ROWS OF CHARACTERS (2 FOR WORDS, 1 FOR DIRECTION ARROW), AND 1" LETTERING.
 7. CONTRACTOR SHALL DRILL 1 1/2" HOLE THROUGH THE BOTTOM OF JAQUITH CAN, AND SPRAY COLD GALV. ON CAN PRIOR TO INSTALLATION.
 8. INSTALL A 3"x3"x1' 3/4" CRUSHED STONE SUMP UNDER ALL JAQUITH CANS. THE CRUSHED STONE SHALL BE WRAPPED IN GEOTEXTILE FABRIC.



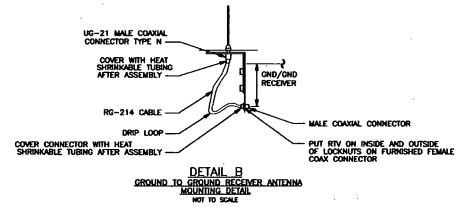
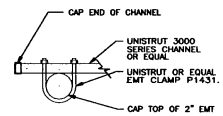
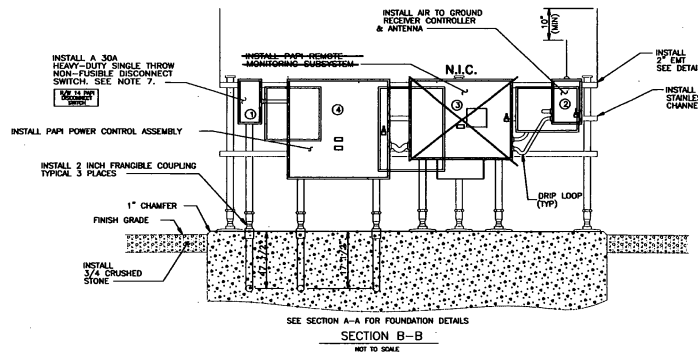
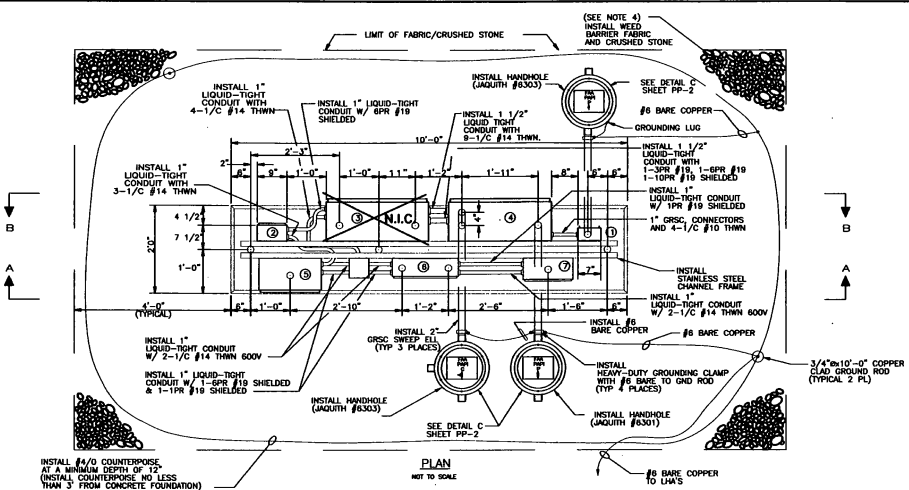
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NO.	DATE	REVISIONS	BY	CHKD

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VERMONT AGENCY OF TRANSPORTATION COVENTRY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 1B-36 RECONSTRUCTION
 PAPI GENERAL INSTALLATION DETAILS

DESIGN BY: LJP
 CHECKED BY: JAA
 PLOT DATE: JAA
 DATE: MAR. 2000
 PLOT NO.: N15500
 DRAWING: 1
 SHEET PP-2

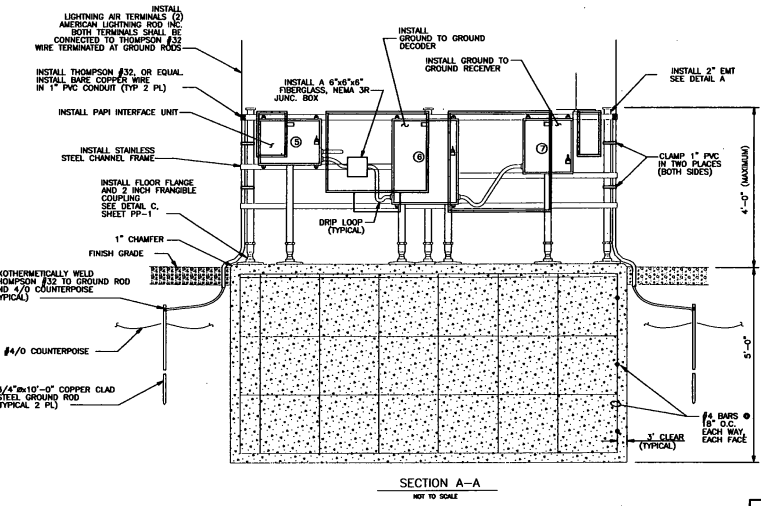


NOTES

- FOUNDATION DEPTH SHALL BE 6 FEET (MIN), EXCEPT WHERE THERE IS FIRM BEDROCK ABOVE THIS DEPTH. THE BOTTOM OF ALL FOUNDATION EXCAVATIONS SHALL BE FREE OF WATER AND LOOSE EARTH AND SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT AS PER ASTM D-1557. PRIOR TO INSTALLING FOUNDATIONS, WHERE REQUIRED, FILL SHALL BE PLACED IN LAYERS OF 6 INCHES (MAX) AND SHALL BE COMPACTED IN THE SAME MANNER AS DESCRIBED ABOVE.
- CONCRETE FOUNDATIONS SHALL HAVE SMOOTH VERTICAL SURFACES SO AS TO BE RESISTANT TO FROST HEAVES.
- CONCRETE SHALL DEVELOP MINIMUM STRENGTH OF 3000 PSI IN 28 DAYS WITH MAXIMUM SLOPE OF 3 INCHES AND MAXIMUM AGGREGATE SIZE OF 3/4 INCH. CONCRETE MIX SHALL HAVE AN AIR ENTRAINING AGENT CONFORMING TO ASTM C-260. CONCRETE SHALL BE PROTECTED FROM FREEZING DURING AND FOR 7 DAYS AFTER PLACEMENT.
- WEED BARRIER FABRIC COVERED WITH A 4 INCH LAYER OF CRUSHED STONE (1/4 INCH DIA MAX) SHALL BE PLACED IN THE AREA EXTENDING 4 FEET FROM EACH SIDE OF LHA AND POWER AND CONTROL STATION PAD.
- CAP UNUSED COUPLING IN AQUITY CANS.
- ALL HANDWARE SHALL BE STAINLESS STEEL. CHANNEL (UNISTRUT OR EQUAL) SHALL BE STAINLESS STEEL. GRSC INDICATES GALVANIZED RIBBON STEEL CONDUIT.
- AN ENGRAVED PLASTIC OR OTHER APPROVED LABEL SHALL BE AFFIXED TO EQUIPMENT ENCLOSURE WITH EPOXY CEMENT. LABEL SHALL READ "7/8 IN PAPER" AND SHALL INCLUDE CABINET NAME/E. TO DISCONNECT SWITCH" UNLESS OTHERWISE DIRECTED.
- HANDHOLE COVERS SHALL BE IDENTIFIED WITH THE APPROPRIATE INFORMATION ON A 1/2 IN THICK BRASS PLATE FASTENED TO THE COVER WITH A MINIMUM OF TWO 10-32 BRASS SCREWS.

LEGEND

- DISCONNECT SWITCH
- AIR TO GROUND RECEIVER
- REMOTE MONITORING SUBSYSTEM - N.I.C.
- POWER AND CONTROL ASSEMBLY
- PAPER INTERFACE UNIT
- GROUND TO GROUND DECODER
- GROUND TO GROUND RECEIVER



NO.	DATE	REVISIONS	BY	CHKD

DuBois King
 engineering planning management development

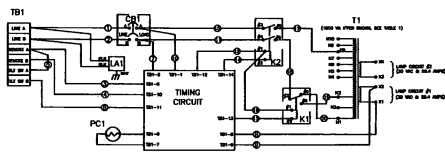
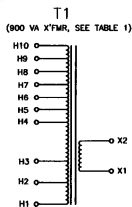
VERMONT AGENCY OF TRANSPORTATION COVENTRY, VERMONT
 NEWPORT STATE AIRPORT
 RUNWAY 18-36 RECONSTRUCTION
 PAPER POWER AND CONTROL STATIONS AND FOUNDATION

DESIGN BY	JAP	DATE	MAR, 2000
CHECKED BY	PROJ. NO.	N15500	
DATE	DATE	1	
SHEET			PP-3

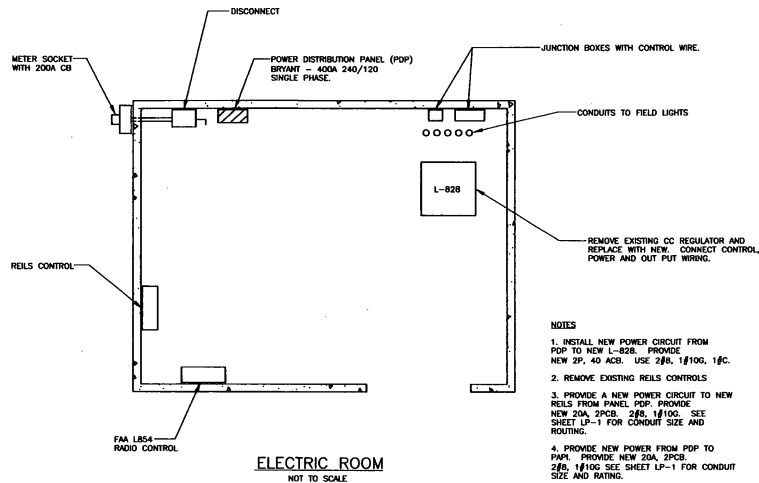
NOTE: WIRE #17 HAS BEEN FACTORY PRE-SET TO T1-H8 (230-245V) TERMINAL CHANGE WIRE #17 TERMINATION SUCH THAT THE PAPI LAMP VOLTAGE IS BETWEEN 28.4 AND 31.2 VOLTS.

TABLE 1
(REFERENCE ONLY)

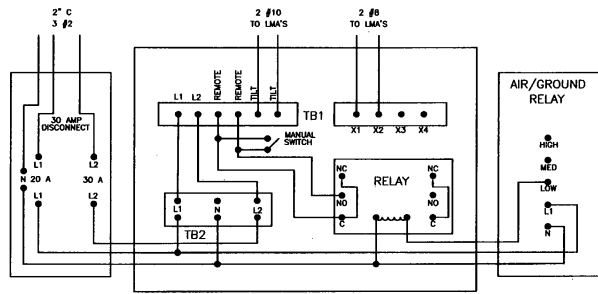
LINE VOLTAGE	CONNECT TO WIRE #17
185-200	H2
195-210	H2
205-220	H2
215-230	H2
225-235	H2
235-245	H2
245-255	H2
255-265	H2
265-275	H2
275-285	H2
285-295	H2
295-305	H2
305-315	H2
315-325	H2
325-335	H2
335-345	H2
345-355	H2
355-365	H2
365-375	H2
375-385	H2
385-395	H2
395-405	H2
405-415	H2
415-425	H2
425-435	H2
435-445	H2
445-455	H2
455-465	H2
465-475	H2
475-485	H2
485-495	H2
495-505	H2
505-515	H2
515-525	H2
525-535	H2
535-545	H2
545-555	H2
555-565	H2
565-575	H2
575-585	H2
585-595	H2
595-605	H2
605-615	H2
615-625	H2
625-635	H2
635-645	H2
645-655	H2
655-665	H2
665-675	H2
675-685	H2
685-695	H2
695-705	H2
705-715	H2
715-725	H2
725-735	H2
735-745	H2
745-755	H2
755-765	H2
765-775	H2
775-785	H2
785-795	H2
795-805	H2
805-815	H2
815-825	H2
825-835	H2
835-845	H2
845-855	H2
855-865	H2
865-875	H2
875-885	H2
885-895	H2
895-905	H2
905-915	H2
915-925	H2
925-935	H2
935-945	H2
945-955	H2
955-965	H2
965-975	H2
975-985	H2
985-995	H2
995-1000	H2



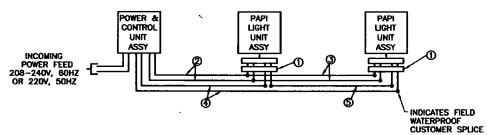
SYSTEM WIRING DIAGRAM
NOT TO SCALE
POWER & CONTROL UNIT ASSY



- NOTES**
1. INSTALL NEW POWER CIRCUIT FROM PDP TO NEW L-828. PROVIDE NEW 2" 40 ACS. USE 2&8, 1#100, 1#C.
 2. REMOVE EXISTING REELS CONTROLS
 3. PROVIDE A NEW POWER CIRCUIT TO NEW REELS FROM PANEL PDP. PROVIDE NEW 2" 40 ACS. 2&8, 1#100. SEE SHEET LP-1 FOR CONDUIT SIZE AND ROUTING.
 4. PROVIDE NEW POWER FROM PDP TO PAPI. PROVIDE NEW 2" 40 ACS. 2&8, 1#100. SEE SHEET LP-1 FOR CONDUIT SIZE AND RATING.
 5. RECONNECT THE AIR TO GROUND RECEIVER L-854 TO THE OPERATING CONTROLS OF THE CONSTANT CURRENT TRANSFORMER L-828 TO MATCH THE EXISTING CONTROL PATTERN. THIS WILL ALLOW FOR THREE LEVELS OF LIGHTING.



PAPI POWER AND CONTROL UNIT
NOT TO SCALE



- ① = CONSOLIDATING HARNESS. 4/#14 AWG LEADS (SUPPLIED)
- ② = OUTGOING POWER FEED FROM POWER & CONTROL UNIT ASSY T1-X TERMINALS. USE #8 AWG MIN (NOT SUPPLIED)
- ③ = POWER FEED FROM PREVIOUS LIGHT UNIT ASSY. USE #14 AWG MIN (NOT SUPPLIED)
- ④ = TILT SWITCH LEADS FROM POWER & CONTROL UNIT ASSY TBI TERMINALS TILT SWITCH A & B. USE #14 AWG MIN (NOT SUPPLIED)
- ⑤ = TILT SWITCH LEAD FROM PREVIOUS LIGHT UNIT ASSY. USE #14 AWG MIN (NOT SUPPLIED)

CONSOLIDATING HARNESS LEAD COLOR CODES

RED	= POWER LEADS
WHITE	= POWER LEAD
BLACK	= TILT SWITCH LEAD
GREEN	= TILT SWITCH LEAD

NOTE: ON 8812A-2-11 OR -20 PAPI SYSTEMS, NO TILT SWITCH WIRES (④ & ⑤) ARE REQUIRED. A JUMPER WIRE (#16 AWG MIN) MUST BE ADDED BETWEEN POWER & CONTROL UNIT ASSY TBI TERMINALS TILT SWITCH A & B FOR UNIT FUNCTION.

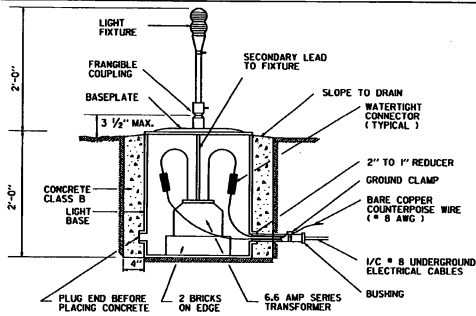
L-881 STYLE "A" SYSTEM
NO SCALE
PART NO'S 8812A-1, 8812A-2 & 8812A-2-11 OR -20
PAPI FIELD WIRING CONNECTIONS

NO.	DATE	REVISIONS	BY	CHK'D

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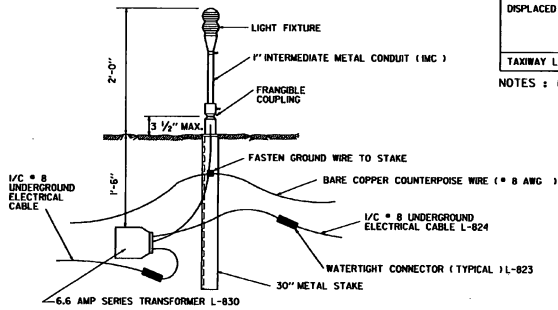
VERMONT AGENCY OF TRANSPORTATION COVENTRY, VERMONT
NEWPORT STATE AIRPORT
RUNWAY 18-36 RECONSTRUCTION
PAPI WIRING/ ELECTRIC ROOM
DIAGRAM AND DETAIL

ORDER BY	DATE
LAP	MAR. 2000
DRAWN BY	PROJ. NO.
JAA	N15500
PROJ. ENG.	DRAW. NO.
JAA	1
SHEET PP-4	



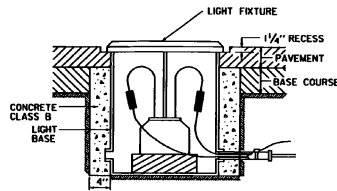
- NOTES :
1. PROVIDE 3 FEET OF SLACK IN CABLES AT TRANSFORMER.
 2. SEAL END OF CONDUIT (DUCT SEAL)
 3. PROVIDE 1/2" PER FT. PITCH ON ALL CONDUITS

BASE MOUNTED UNIT
ELEVATED LIGHT
NO SCALE



- NOTES :
1. PROVIDE 3 FEET OF SLACK IN CABLES AT TRANSFORMER.
 2. 30" METAL STAKE SHALL BE MADE OF GALVANIZED STEEL ANGLE 2" x 2" x 3/16" WITH A SUITABLE TAPPED FITTING BOLTED AT THE TOP TO RECEIVE THE FRANGIBLE COUPLING.

STAKE MOUNTED UNIT
ELEVATED LIGHT
NO SCALE



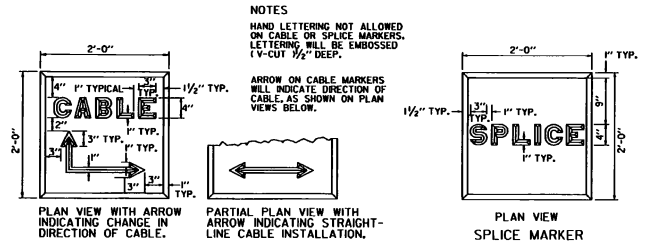
NOTE : FOR ALL OTHER DETAILS, SEE BASE MOUNTED UNIT FOR ELEVATED LIGHT.

BASE MOUNTED UNIT
SEMI-FLUSH LIGHT
NO SCALE

LIGHT LOCATION	LAMP		LENS
	MEDIUM INTENSITY	HIGH INTENSITY	
RUNWAY EDGE LIGHT	6.6A, 30W	6.6A, 150W	360° CLEAR/180° YELLOW
RUNWAY THRESHOLD LIGHT	6.6A, 45W	6.6A, 150W	180° RED/180° GREEN
DISPLACED THRESHOLD LIGHT	6.6A, 30/45W	6.6A, 150W	360° RED
TAXIWAY LIGHT	6.6A, 30W		180° RED/180° CLEAR 180° OBSCURED/180° GREEN 180° CLEAR/180° GREEN
			360° BLUE

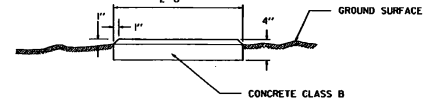
NOTES : 1. SEE PLAN SHEET FOR LENS/LIGHT TYPE.

NOTE : AIRPORT LIGHT BASES SHOULD BE CONSTRUCTED TO FAA SPECIFICATIONS. SEE CURRENT ADVISORY CIRCULAR.

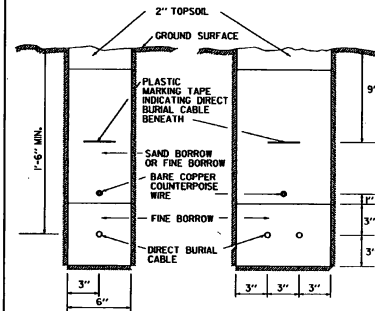


CABLE MARKER

NOTE : SEE STANDARD AP-3 FOR UNDERGROUND ELECTRICAL DUCT DETAILS.

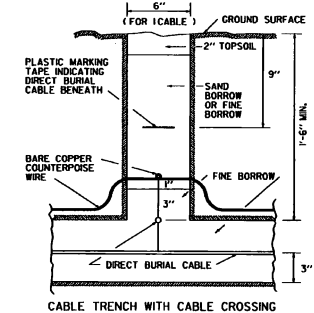


ELEVATION VIEW (TYPICAL FOR CABLE AND SPLICE MARKERS)
CABLE AND SPLICE MARKERS
NO SCALE



SINGLE CABLE INSTALLATION **TWO CABLE INSTALLATION**

NOTE : FOR MULTIPLE-CABLE INSTALLATIONS, PROVIDE 3" ADDITIONAL TRENCH WIDTH FOR EACH ADDITIONAL CABLE.



CABLE TRENCH WITH CABLE CROSSING

NOTE : UNDERGROUND ELECTRICAL CABLE SHOULD BE CONSTRUCTED TO FAA SPECIFICATION. SEE CURRENT ADVISORY CIRCULAR.

UNDERGROUND ELECTRICAL CABLE INSTALLATION
TRENCH DETAILS
(IN EARTH OR ROCK)
NO SCALE

REVISIONS AND CORRECTIONS

DEC. 15, 1981 - ORIGINAL APPROVAL DATE
MAR. 1, 1990 - SHEET UPDATED
JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

APPROVED

[Signature]
DIRECTOR OF RAIL, AIR AND PUBLIC TRAVEL

APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION. FINAL FINAL APPROVAL PERIOD.

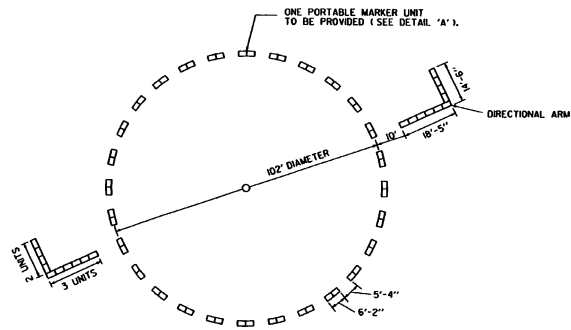
LIGHTING & ELECTRICAL DETAILS



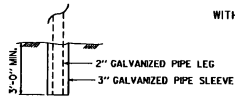
STANDARD
AP-2

NOTES

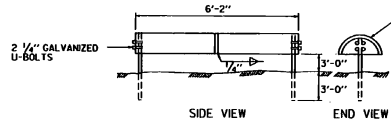
1. THE LOCATION OF THE PORTABLE MARKER UNIT SHALL BE AS ORDERED BY THE ENGINEER.
2. DIRECTIONAL ARMS ARE INSTALLED ONLY ON AIRPORTS WITH A NON-STANDARD TRAFFIC PATTERN (RIGHT-HAND PATTERN). WHEN INSTALLED, DIRECTIONAL ARMS WILL BE MAGNETICALLY ORIENTED TO THE RUNWAY AND WILL SHOW TRAFFIC PATTERN ON EACH RUNWAY.



SEGMENTED CIRCLE LAYOUT WITH DIRECTIONAL ARMS



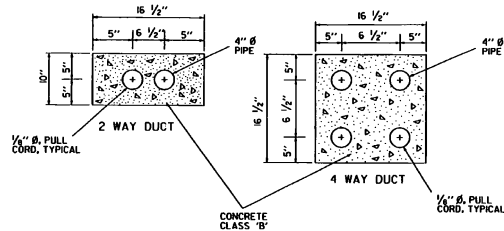
LEG DETAIL FOR PORTABLE MARKER UNIT
DETAIL 'A'



SEGMENTED CIRCLE MARKER UNIT

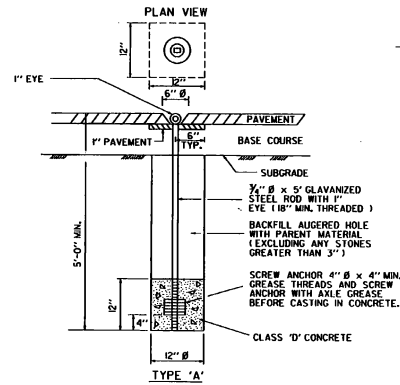
MARKER UNIT - STANDARD 55 GALLON METAL DRUM, CUT IN HALF AND WELDED END TO END. MARKER UNITS TO BE PAINTED AVIATION ORANGE.
PORTABLE UNIT HAS LEGS OF 2" Ø GALVANIZED PIPE OR 1 1/2" x 3/8" L (GALV.).
STATIONARY UNITS HAVE LEGS OF 2" Ø GALVANIZED PIPE OR 1 1/2" x 3/8" L (GALV.).

SECTION A-A

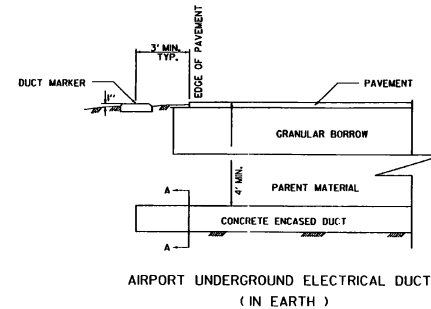


ALL DUCTS, EXCEPT STEEL CONDUIT, INSTALLED UNDER RUNWAYS, TAXIWAYS, APRONS, AND OTHER PAVED AREAS SHALL BE ENCASED IN A CONCRETE ENVELOPE.

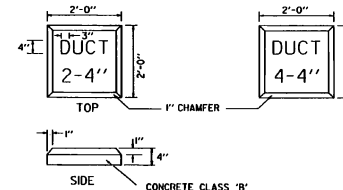
SEE STANDARD AP-2 FOR DIRECT BURIAL CABLE DETAILS.



AIRCRAFT TIE DOWN ANCHOR

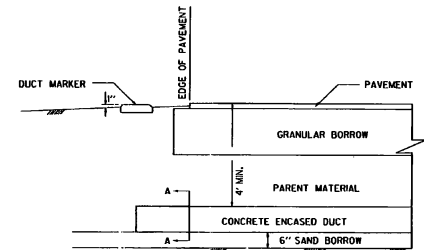


AIRPORT UNDERGROUND ELECTRICAL DUCT (IN EARTH)



DUCT MARKERS

- NOTES**
1. LETTERING ON DUCT MARKERS TO BE ENCASED, 1" CUT, 1/2" DEEP.
 2. HAND LETTERING NOT ALLOWED.



AIRPORT UNDERGROUND ELECTRICAL DUCT (IN ROCK)

REVISIONS AND CORRECTIONS

DEC. 15, 1981 - ORIGINAL APPROVAL DATE
MAR. 5, 1990 - SHEET UPDATED
JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

APPROVED

APPROVED FOR THE PROJECT AND/OR DESIGN IMPLEMENTATION. FINAL APPROVAL PENDING.

W. B. ...
DIRECTOR OF RAILROAD AND PUBLIC TRANSIT

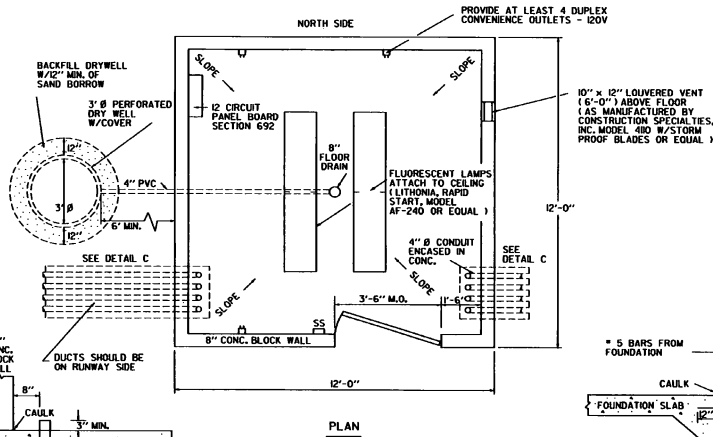
MISCELLANEOUS AIRPORT DETAILS



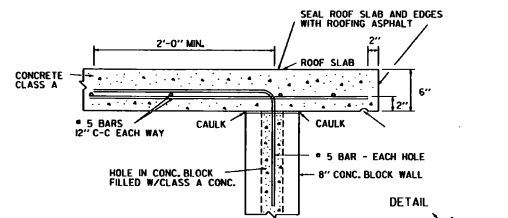
**STANDARD
AP-3**

NOTES

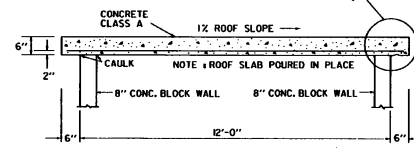
- 1 MOUNT CONTACTORS, BOOSTER TRANSFORMERS AND MISC. HARDWARE ON SAME WALL AS NEW 12 CIRCUIT PANEL BOX.
- 2 PROVIDE GROUND BUS BENEATH 12 CIRCUIT PANEL BOX.
- 3 INSTALL ELECTRIC PANEL ON 3/4" PLYWOOD, SET OFF FROM WALL ON 2" x 4" C. ALL WOOD TO BE PAINTED.
- 4 PROVIDE AT LEAST 1/2 ROOF SLOPE (TO EAST).
- 5 FOUNDATION FLOOR TO SLOPE TO CENTER OF VAULT.
- 6 FIRST COURSE OF BLOCKS ON FOUNDATION TO BE TWO 4" SOLID BLOCKS WITH COPPER FABRIC FLASHING BETWEEN - SEE DETAIL A.
- 7 PROVIDE ALUMINUM BIRD AND INSECT SCREEN AT AIR INTAKE ON LOUVER AND EXHAUST VENT.
- 8 CAULK AT ALL METAL TO CONCRETE INTERFACES.
- 9 PROVIDE DOOR BUMPER ON WALL AND STRIKE SIDE OF JAMB.
- 10 ELECTRICAL PANEL BOARD AND METER INCLUDED IN AIRPORT TRANSFORMER VAULT EQUIP.
- 11 CONCRETE BLOCK WALLS AND CONCRETE CEILING SHALL BE SEALED WITH TWO COATS OF APPROVED SEALER. A FINAL COAT OF WHITE PAINT SHALL BE APPLIED OVER THE SEALER.
- 12 ALL CAULKING SHALL BE ASPHALTIC JOINT COMPOUND.



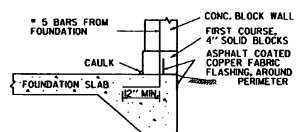
PLAN



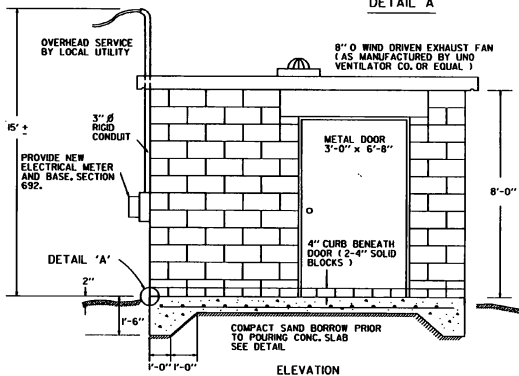
DETAIL



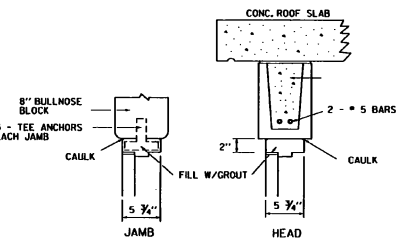
ROOF DETAIL



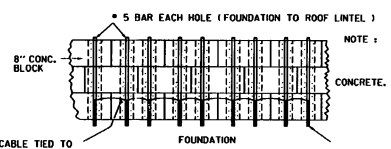
DETAIL A



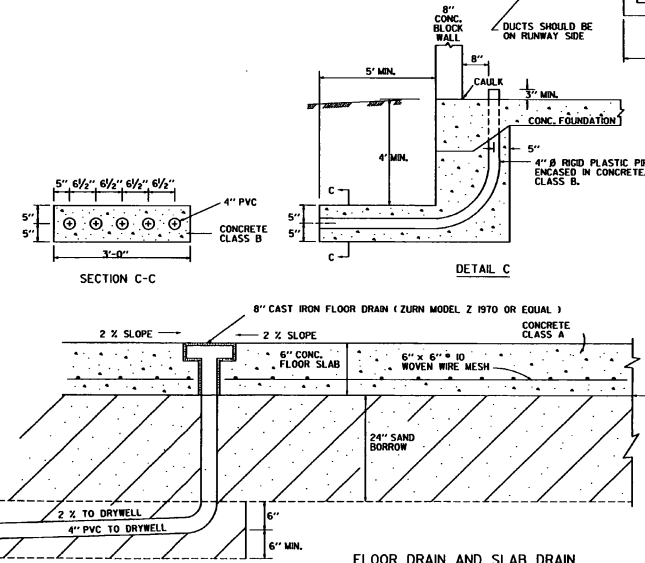
AIRPORT TRANSFORMER VAULT



DOOR DETAILS FOR HOLLOW METAL FRAMES



WALL DETAIL



FLOOR DRAIN AND SLAB DRAIN

REVISIONS AND CORRECTIONS

DEC. 15, 1981 - ORIGINAL APPROVAL DATE
 MAR. 1, 1990 - SHEET UPDATED
 JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURE.

APPROVED

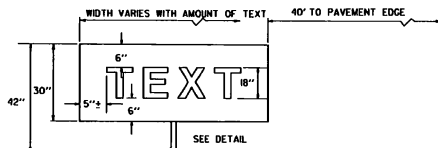
[Signature]
 DIRECTOR OF RAIL, AIR AND PUBLIC TRANSIT

APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION, FINAL APPROVAL, PENDING.

TRANSFORMER VAULT DETAILS

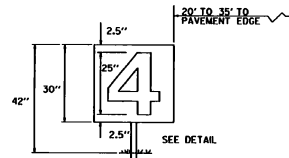
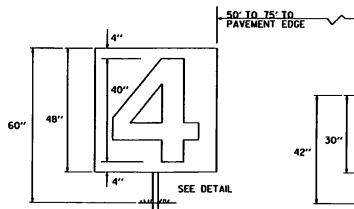


**STANDARD
 AP-9**



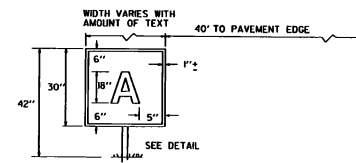
MANDATORY SIGNS

- MANDATORY SIGNS HAVE WHITE INSCRIPTIONS ON A RED BACKGROUND
- SIGNS TO BE LIGHTED WHEN USED ON CERTIFICATED AIRPORTS OR OTHER AIRPORTS HAVING INSTRUMENT OPERATIONS.
- UNLIGHTED, RETROREFLECTIVE SIGNS MAY BE USED AT GENERAL AVIATION AIRPORTS HAVING ONLY VISUAL FLIGHT (VFR) OPERATIONS.



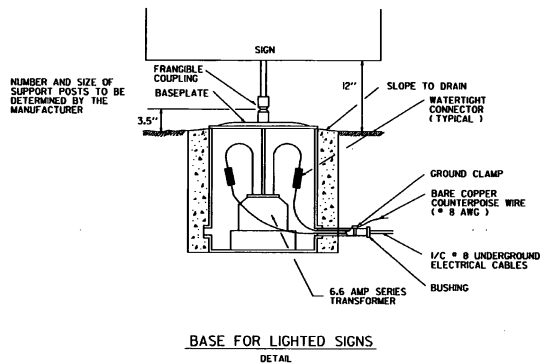
RUNWAY DISTANCE REMAINING SIGNS

- SIGNS HAVE WHITE INSCRIPTIONS ON A BLACK BACKGROUND.
- LARGE SIGNS USED IF PLACED 50 TO 75 FEET FROM PAVEMENT EDGE.
- SMALL SIGNS USED IF PLACED 20 TO 35 FEET FROM PAVEMENT EDGE.
- SIGN SIZE SHOULD BE CONSISTANT ALONG LENGTH OF EACH RUNWAY.
- ONLY LIGHTED SIGNS ARE USED FOR RUNWAY DISTANCE REMAINING SIGNS.
- SIGNS TO BE DOUBLE-SIDED, PREFERABLY LOCATED ON THE LEFT SIDE OF RUNWAY AS VIEWED FROM THE MOST OFTEN USED DIRECTION.

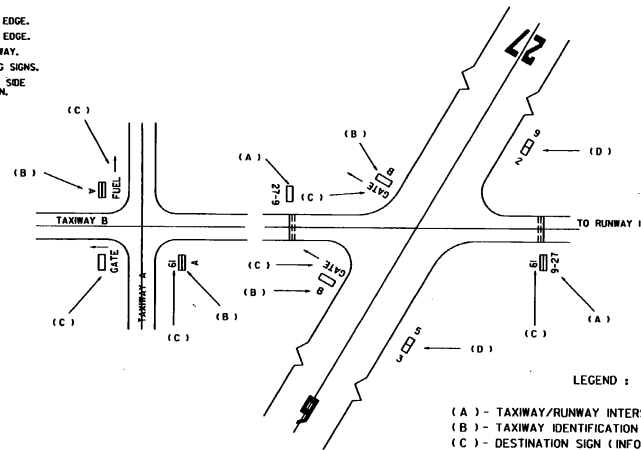


INFORMATION SIGNS

- INFORMATION SIGNS HAVE BLACK INSCRIPTIONS ON A YELLOW BACKGROUND, AND HAVE A BLACK BORDER.



BASE FOR LIGHTED SIGNS
DETAIL



LEGEND :

- (A) - TAXIWAY/RUNWAY INTERSECTION SIGN (MANDATORY TYPE)
- (B) - TAXIWAY IDENTIFICATION SIGN (INFORMATION TYPE)
- (C) - DESTINATION SIGN (INFORMATION TYPE)
- (D) - RUNWAY DISTANCE REMAINING SIGN

TYPICAL SIGN APPLICATIONS

REFER TO CURRENT FAA ADVISORY CIRCULAR .

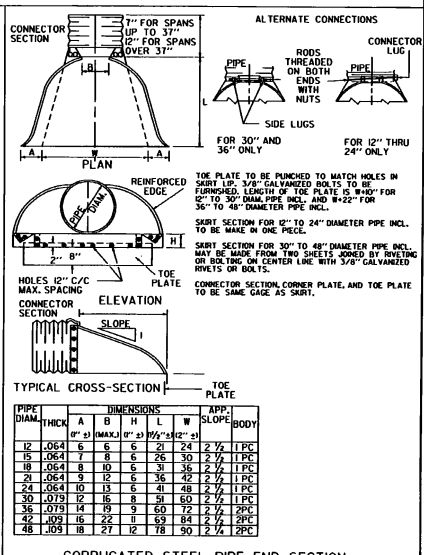
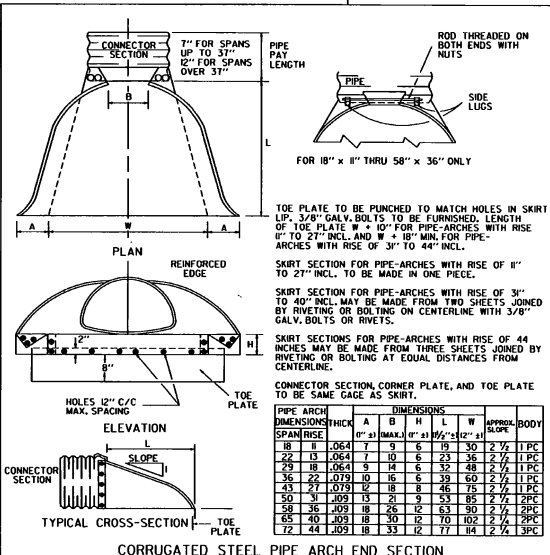
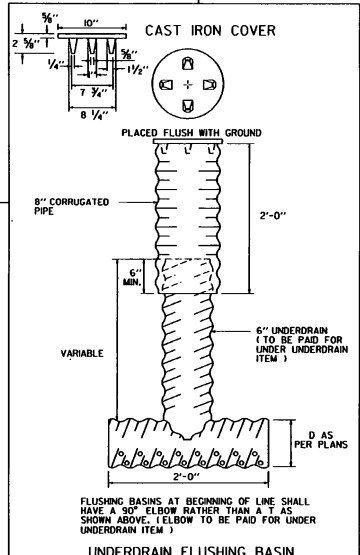
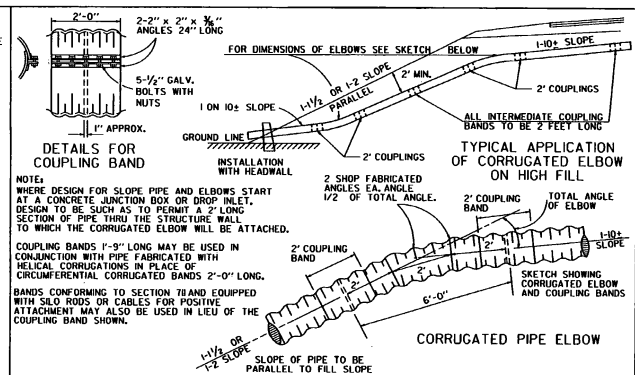
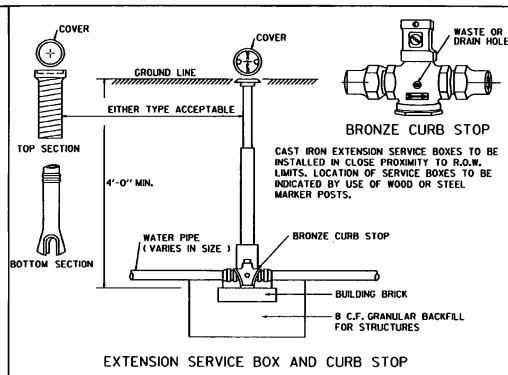
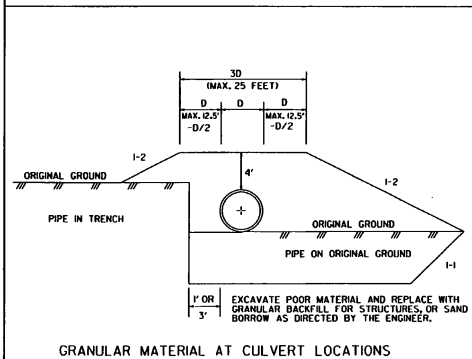
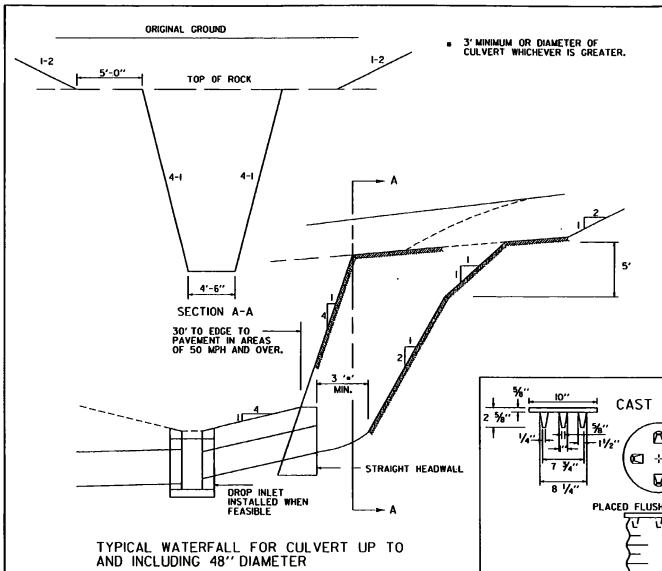
REVISIONS AND CORRECTIONS
MAR. 1, 1990 - SHEET UPDATED
JUNE 1, 1994 - REISSUED, WITHOUT CHANGE,
UNDER NEW SIGNATURE.

APPROVED
APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION.
FROM FINAL APPROVAL READING.
W. S. B. [Signature]
DIRECTOR OF RAIL, AIR AND PUBLIC TRANSIT

SIGN SYSTEMS



STANDARD
AP-12



REVISIONS AND CORRECTIONS

DEC. 6, 1971 - ORIGINAL APPROVAL DATE

JULY 17, 1972 - HELICAL CORRUGATED COUPLING NOTE ADDED

JULY 24, 1975 - GRANULAR MATERIAL AT CULVERT LOCATIONS CORRECTED

OCT. 30, 1985 - REVISED TO CONFORM TO 1986 SPECIFICATIONS

JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

APPROVED

APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION, FINAL APPROVAL PENDING.

Stephen D. McAdams, PE
DIRECTOR OF ENGINEERING

John D. ...
DESIGN ENGINEER

TYPICAL WATERFALL FOR CULVERTS UP TO AND INCLUDING 48" DIAMETER

EXTENSION SERVICE BOX AND CURB STOP

CORRUGATED PIPE ELBOW

GRANULAR BORROW AT CULVERT LOCATIONS

UNDERDRAIN FLUSHING BASIN

CORRUGATED STEEL PIPE END SECTION

CORRUGATED STEEL PIPE ARCH END SECTION

VERMONT AGENCY OF TRANSPORTATION

STANDARD D-4

REINFORCED CONCRETE DROP INLET WITH GRATE (BOTTOM SECTION)

ANY OF THE COMBINATIONS OF TOPS, CURBS AND GRATES FOUND ON SHEETS D-6, D-9-D-10, D-11, D-15 AND D-16 CAN BE ADAPTED FOR USE WITH THIS STRUCTURE.

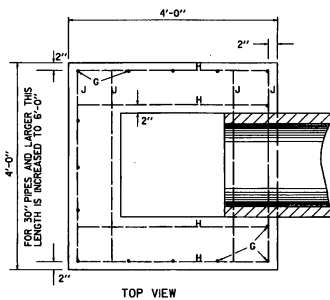
MINIMUM DEPTH FOR

15" 3'-6"
18" 3'-6"
24" 4'-0"

STEEL SCHEDULE FOR DROP INLET (BOTTOM SECTION ONLY)												
DEPTH	12" TO 24" DIAMETER 4' x 4' D.I.						30" DIAMETER 4' x 6' D.I.					
	NO. J	LENGTH	NO. H	LENGTH	NO. G	LENGTH	NO. J	LENGTH	NO. H	LENGTH	NO. G	LENGTH
3'-0"	12	3'-8"	13	3'-8"	15	2'-8"						
3'-6"	12	3'-8"	13	3'-8"	15	3'-2"						
4'-0"	14	3'-8"	15	3'-8"	15	3'-8"						
4'-6"	14	3'-8"	15	3'-8"	15	4'-2"	12	5'-8"	17	3'-8"	17	4'-2"
5'-0"	16	3'-8"	17	3'-8"	15	4'-8"	14	5'-8"	19	3'-8"	17	4'-8"
5'-6"	16	3'-8"	17	3'-8"	15	5'-2"	14	5'-8"	19	3'-8"	17	5'-2"
6'-0"	18	3'-8"	19	3'-8"	15	5'-8"	16	5'-8"	21	3'-8"	17	5'-8"

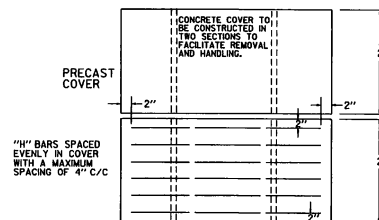
36" DIAMETER 4' x 6' D.I.						
DEPTH	NO. J	LENGTH	NO. H	LENGTH	NO. G	LENGTH
5'-0"	14	5'-8"	19	3'-8"	17	4'-8"
5'-6"	14	5'-8"	19	3'-8"	17	5'-2"
6'-0"	16	5'-8"	21	3'-8"	17	5'-8"

DEPTH	12"-24" DIA.		30" DIA.		36" DIA.	
	CONC. BY C.Y.	STEEL BY C.T.	CONC. BY C.Y.	STEEL BY C.T.	CONC. BY C.Y.	STEEL BY C.T.
3'-0"	1.73	138				
3'-6"	1.95	145				
4'-0"	2.17	168				
4'-6"	2.40	176	3.08	210		
5'-0"	2.62	199	3.37	238	3.29	238
5'-6"	2.84	207	3.67	247	3.59	247
6'-0"	3.06	230	3.97	276	3.89	276



1. TO FIND VOLUME OF CONCRETE FOR THE ENTIRE STRUCTURE, ADD THE VOLUME FOR THE TOP USED, TO THE VOLUME IN THIS TABLE. FOR VOLUME IN TOP, SEE SHEETS D-9, D-10.
2. ALL REINFORCING STEEL TO BE NO. 5 O DEFORMED BARS, EVENLY SPACED WITH A MAXIMUM SPACING OF 12" CENTER TO CENTER.
3. DROP INLET TO BE CONSTRUCTED IN ACCORDANCE WITH STRUCTURAL CONCRETE, SECTION 501.
4. FURNISHING AND LAYING OF BRICKS FOR ADJUSTING ELEVATION OF GRATE, SHALL BE INCLUDED IN UNIT BID PRICE FOR CONCRETE, CLASS B AND THEIR VOLUME TO BE INCLUDED IN THE FINAL QUANTITIES.
5. MORTAR, TYPE II, TO BE USED FOR JOINT FILLER AND LAYING OF BRICK.
6. FOR PIPES OF 30" OR MORE IN DIAMETER, ALLOWANCE SHALL BE MADE FOR THE OPENING IN COMPUTING CONCRETE VOLUMES. THIS DEDUCTION WILL BE BASED ON THE RATED DIAMETER OF THE PIPE USED, WITH THE SAME DEDUCTION FOR CONCRETE AND METAL PIPE.

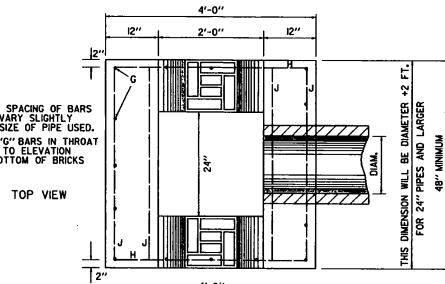
REINFORCED CONCRETE DROP INLET WITH PRECAST COVER
DROP INLET AND COVER TO BE CONSTRUCTED IN ACCORDANCE WITH STRUCTURAL CONCRETE, SECTION 501



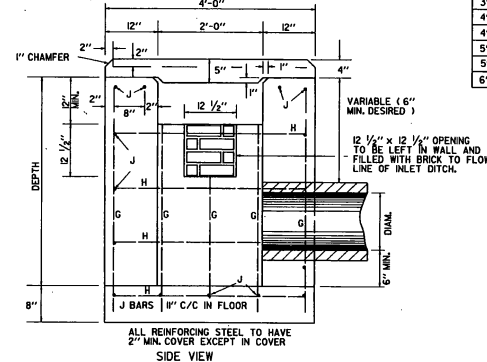
STEEL SCHEDULE FOR DROP INLETS WITH PRECAST COVERS												
DEPTH	12" TO 24" DIAMETER						30" DIAMETER					
	G	LENGTH	J	LENGTH	H	LENGTH	G	LENGTH	J	LENGTH	H	LENGTH
2'-0"	15	2'-4"	31	3'-8"								
2'-6"	15	2'-10"	33	3'-8"								
3'-0"	15	3'-4"	36	3'-8"								
3'-6"	15	3'-10"	36	3'-8"	16	3'-10"	12	4'-2"	23	3'-8"		
4'-0"	15	4'-4"	39	3'-8"	16	4'-4"	14	4'-2"	23	3'-8"		
4'-6"	15	4'-10"	39	3'-8"	16	4'-10"	14	4'-2"	25	3'-8"		
5'-0"	15	5'-4"	42	3'-8"	16	5'-4"	16	4'-2"	25	3'-8"		
5'-6"	15	5'-10"	42	3'-8"	16	5'-10"	16	4'-2"	27	3'-8"		
6'-0"	15	6'-4"	45	3'-8"	16	6'-4"	18	4'-2"	27	3'-8"		

36" DIAMETER						
DEPTH	G	LENGTH	J	LENGTH	H	LENGTH
4'-0"	16	4'-4"	14	4'-8"	28	3'-8"
4'-6"	16	4'-10"	14	4'-8"	28	3'-8"
5'-0"	16	5'-4"	16	4'-8"	30	3'-8"
5'-6"	16	5'-10"	16	4'-8"	30	3'-8"
6'-0"	16	6'-4"	18	4'-8"	32	3'-8"

NOTE: SPACING OF BARS WILL VARY SLIGHTLY WITH SIZE OF PIPE USED. CUT "O" BARS IN THROAT AREA TO ELEVATION AT BOTTOM OF BRICKS



CONCRETE AND STEEL QUANTITIES FOR DROP INLETS WITH PRECAST COVERS											
DEPTH	12" 15" 18"		24"		30"		36"				
	CONC. BY C.Y.	STEEL LBS.	CONC. BY C.Y.	STEEL LBS.	CONC. BY C.Y.	STEEL LBS.	CONC. BY C.Y.	STEEL LBS.			
2'-0"	1.4	155									
2'-6"	1.6	171	1.6	171							
3'-0"	1.8	190	1.8	190							
3'-6"	2.0	198	2.0	198	2.1	204					
4'-0"	2.3	217	2.3	217	2.3	221	2.5	248			
4'-6"	2.5	225	2.5	225	2.6	231	2.7	256			
5'-0"	2.7	244	2.7	244	2.8	254	3.0	282			
5'-6"	2.9	252	2.9	252	3.0	270	3.2	290			
6'-0"	3.2	271	3.2	271	3.3	287	3.5	316			



REVISIONS AND CORRECTIONS
DEC. 6, 1971 - ORIGINAL APPROVAL
JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.
JAN. 3, 2000 - CORRECTED TITLE AND MINOR EDITORIAL CHANGES

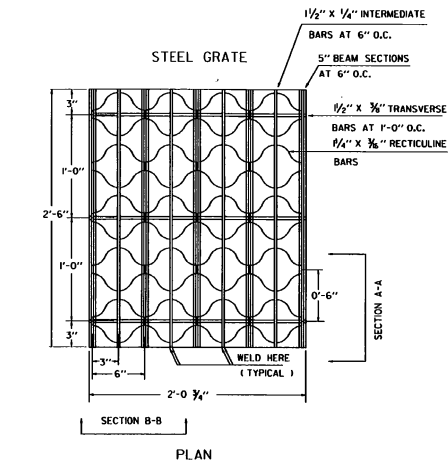
APPROVED

Paul J. ...
DIRECTOR OF PROJECT DEVELOPMENT
Paul J. ...
ROADWAY AND TRAFFIC DESIGN ENGINEER

REINFORCED CONCRETE DROP INLET WITH PRECAST COVER
REINFORCED CONCRETE DROP INLET WITH GRATE (BOTTOM SECTION)



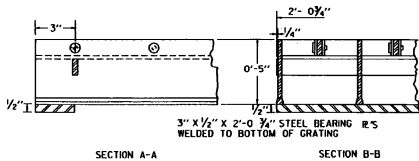
STANDARD
D-8



GRADE SIZE
SINGLE 24 3/4" X 30"
DOUBLE 24 3/4" X 54"

WEIGHT 95 LBS OR MORE
GRATES SHALL BE CAPABLE OF SUPPORTING H-20 (32,000 LBS. AXLE LOAD) INCLUDING 30% IMPACT.

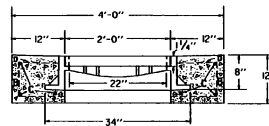
UNIT STRESSES (LBS PER SQ. IN.)	18,000	20,000
MAIN BAR PARALLEL TO TRAFFIC H-20	49"	53"
MAIN BAR PERPENDICULAR TO TRAFFIC H-20	39"	42"



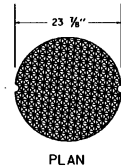
CAST IRON COVER WITH FRAME

BAR NO.	LENGTH
B	4 8" 3'-8" 8"
C	6 3'-8" STRAIGHT
D	4 3'-8" STRAIGHT

ALL REINFORCING STEEL TO BE NO. 5 DEFORMED BARS



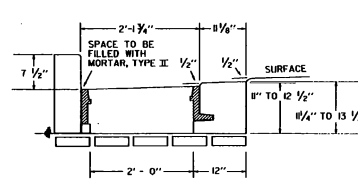
ELEVATION



PLAN

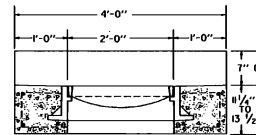
GENERAL NOTES:
WEIGHT OF FRAME AND COVER = 425 LBS.

CAST IRON GRATE WITH FRAME



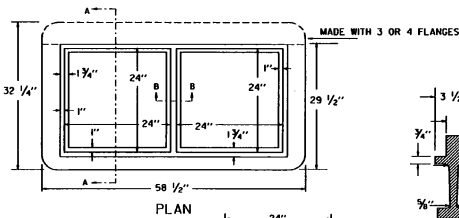
ELEVATION OF REINFORCED CONCRETE DROP INLET WITH VERTICAL GRANITE CURB AND 3 FLANGE CAST IRON FRAME FOR CAST IRON GRATE

SEE STANDARD D-9 FOR CONCRETE VOLUME, REINFORCING STEEL SCHEDULE, AND CURB JOINT DETAIL.



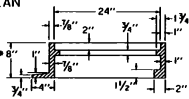
ELEVATION

WEIGHT OF 3 FLANGED FRAME AND GRATE
GRATE FRAME 220 LBS
260 LBS
TOTAL 480 LBS

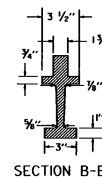


PLAN

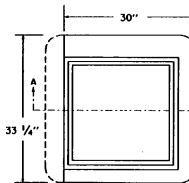
RECTANGULAR CAST IRON FRAME FOR TWO 24" SQUARE CAST IRON GRATES



SECTION A-A



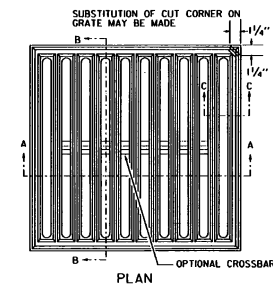
SECTION B-B



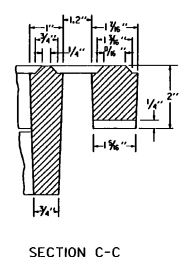
PLAN
SECTION A-A
SQUARE CAST IRON FRAME FOR CAST IRON GRATE TYPE A

* NOTE: FRAME DEPTH TO BE "6" WHEN USED IN CONJUNCTION WITH DROP INLET DETAILED ON STANDARD D-6.

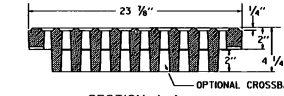
CAST IRON GRATE, TYPE A



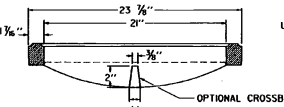
PLAN



SECTION C-C



SECTION A-A



SECTION B-B

USE OF THE TYPE A GRATE IS PROHIBITED WHERE BICYCLE TRAFFIC IS EXPECTED

THIS FRAME TO BE PLACED IN DROP INLET TOP BEFORE CONCRETE IS POURED.
4 FLANGES UNLESS OTHERWISE INDICATED. FRAMES TO BE FURNISHED WITH 3 FLANGES WHEN USED IN CONJUNCTION WITH CURB OR AS DIRECTED BY THE ENGINEER.

REVISIONS AND CORRECTIONS
DEC. 6, 1971 - ORIGINAL APPROVAL
APR. 25, 1972 - CAST IRON COVER CHANGED FROM SQUARE TO CIRCULAR
SEPT. 4, 1980 - OPTIONAL CROSSBAR ADDED TO A GRATE; NOTE ADDED TO A GRATE FRAME DETAIL
AUG. 25, 1981 - NOTE ADDED RESTRICTING USE OF TYPE A GRATE
JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

APPROVED

APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION, FINAL DESIGN APPROVAL PENDING.

Stephen D. McArthur, C.E.
DIRECTOR OF ENGINEERING

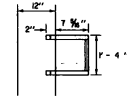
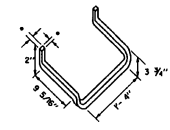
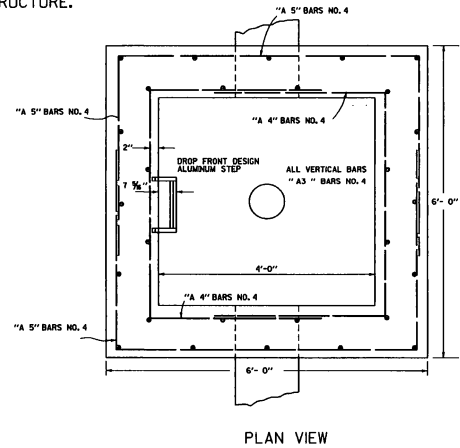
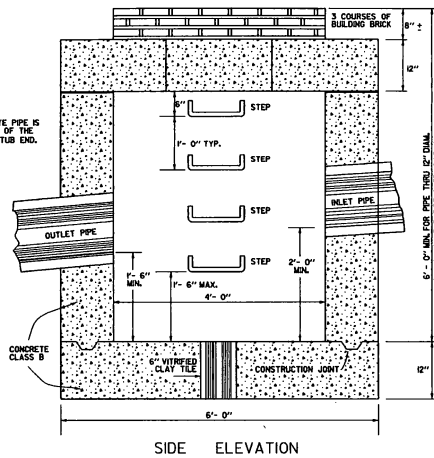
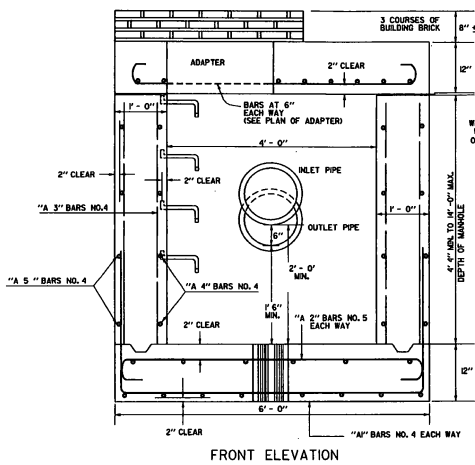
Christ M. Murphy, P.E.
DESIGN ENGINEER

STEEL GRATE
CAST IRON GRATE TYPE A
CAST IRON COVER



STANDARD
D-11

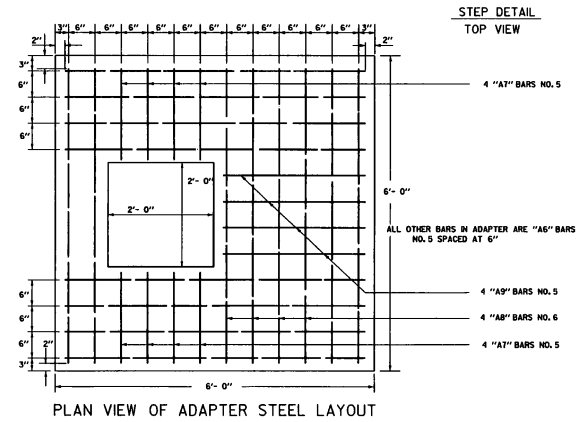
ANY OF THE COMBINATIONS OF TOPS, CURBS AND GRATES FOUND ON SHEETS D-6, D-9, D-10, D-11, D-15, AND D-16 CAN BE ADAPTED FOR USE WITH THIS STRUCTURE.



BAR	HEIGHT					
	4'-4" MBL	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"
A 1	16 BARS NO. 4 AT 9"	16	16	16	16	16
A 2	12 BARS NO. 5 AT 15"	14	16	18	18	18
A 3	28 BARS NO. 4 AT 18"	28	28	28	28	28
A 4	8 BARS NO. 4 AT 15"	10	14	18	20	24
A 5	8 BARS NO. 4 AT 15"	10	14	18	20	24
A 6	12 BARS NO. 5 AT 6"	12	12	12	12	12
A 7	8 BARS NO. 5 AT 6"	8	8	8	8	8
A 8	4 BARS NO. 6 AT 6"	4	4	4	4	4
A 9	4 BARS NO. 5 AT 6"	4	4	4	4	4
TOTAL WEIGHT(LBS)	576	654	756	873	954	1060

- MORTAR TYPE II TO BE USED FOR JOINT FILLER AND LAYING OF BRICK.
- THREE COURSES OF BUILDING BRICK TO BE PLACED ON TOP OF CONCRETE ADAPTER PRIOR TO PLACING CONCRETE SEAT TO FACILITATE CHANGING ELEVATION OF CATCH BASIN OR MANHOLE
- ALL REINFORCING BARS SPACED AS SHOWN OR NOTED. FOR SIZE AND LENGTH, SEE SCHEDULE. ALL REINFORCING STEEL TO BE ROUND DEFORMED BARS.
- THE ADAPTER SHALL BE PLACED ON THE CATCH BASIN SO AS TO PROVIDE DIRECT ACCESS TO STEPS.
- A7 AND A9 BARS MAY BE CUT FROM A6 BARS IN ORDER TO REDUCE THE NUMBER OF DIFFERENT BAR MARKS.

A1 BARS NO. 4		A2 BARS NO. 5		A3 BARS NO. 4 STRAIGHT		A4 BARS NO. 4		A5 BARS NO. 4		A6 BARS NO. 5		A7 BARS NO. 5		A8 BARS NO. 6		A9 BARS NO. 5	
HEIGHT	LENGTH	HEIGHT	LENGTH	HEIGHT	LENGTH	HEIGHT	LENGTH	HEIGHT	LENGTH	HEIGHT	LENGTH	HEIGHT	LENGTH	HEIGHT	LENGTH	HEIGHT	LENGTH
4'-4"	3'-3"	6'-0"	6'-0"	4'-4"	4'-2"	6'-0"	5'-10"	6'-0"	5'-10"	6'-0"	6'-10"	6'-0"	2'-3"	6'-0"	6'-10"	6'-0"	3'-3"



REVISIONS AND CORRECTIONS
 DEC. 14, 1971 - ORIGINAL APPROVAL
 AUG. 10, 1981 - REVISED STEP AND ADAPTER DESIGN
 MAR. 23, 1994 - ADDED STEP DETAIL
 JUNE 1, 1994 - REISSUED WITHOUT CHANGE, UNDER NEW SIGNATURES.
 JAN. 3, 2000 - CORRECTED TITLE AND MINOR EDITORIAL CHANGES

APPROVED

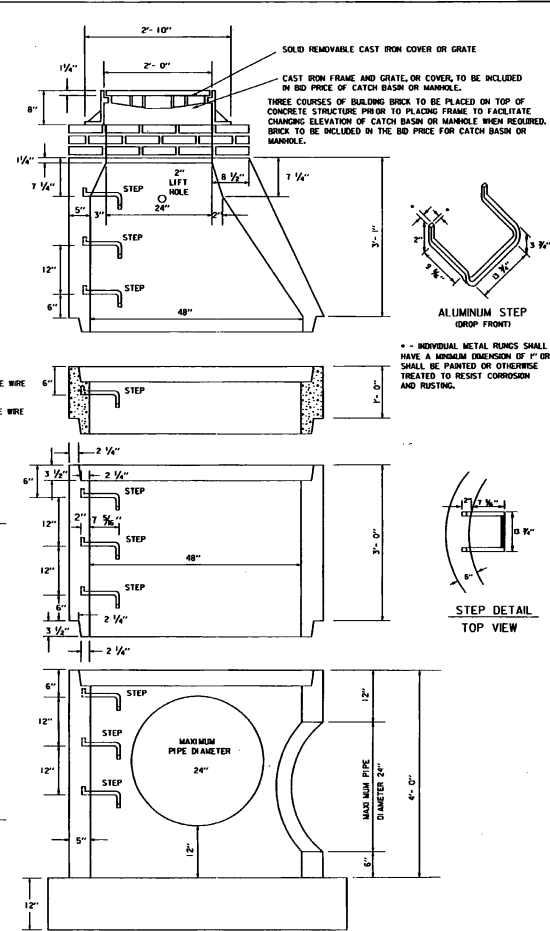
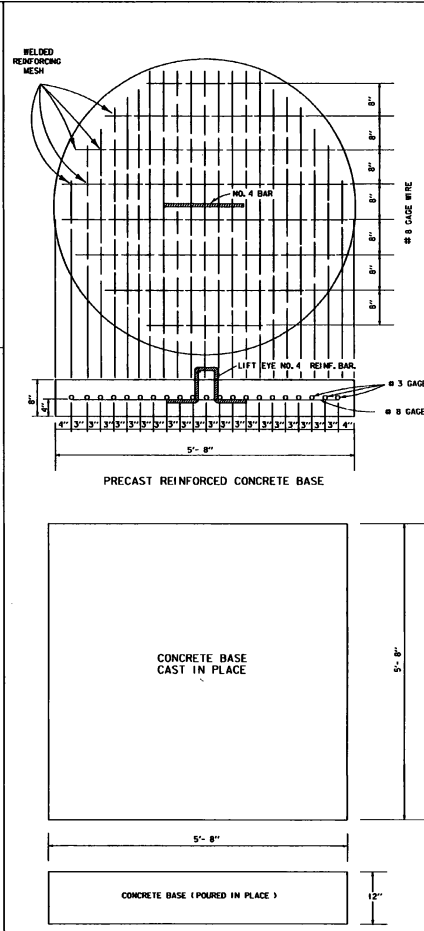
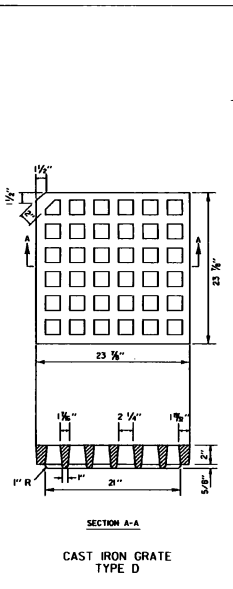
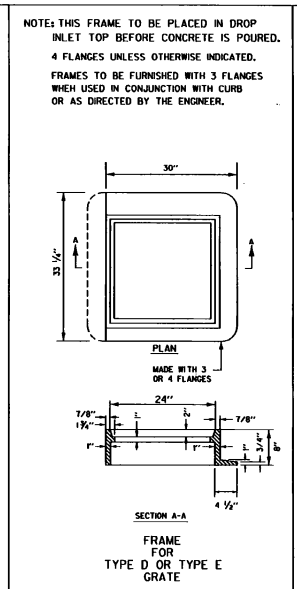
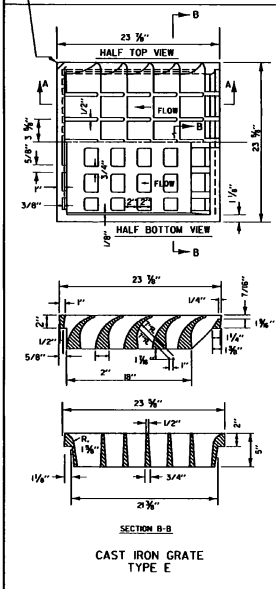
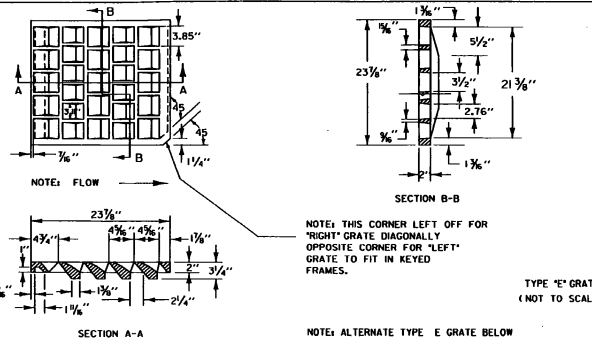
 DIRECTOR OF PROJECT DEVELOPMENT

 ROADWAY AND TRAFFIC DESIGN ENGINEER

CONCRETE CATCH BASIN



STANDARD
 D-13



REVISIONS AND CORRECTIONS

DEC. 6, 1971 - ORIGINAL APPROVAL

OCT. 22, 1976 - CAST IRON GRATE WITH FRAME, TYPE E ADDED

OCT. 6, 1978 - TYPE D GRATE ADDED

OCT. 30, 1985 - IMPERFECT TRENCH DETAILS DELETED

FEB. 17, 1993 - SECOND CAST IRON GRATE TYPE E ADDED.

MAR. 23, 1994 - ADDED NOTE FOR STEP DETAILS.

JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

APPROVED

APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION, FINAL APPROVAL PENDING.

Stephen D. M. O'Neil
DIRECTOR OF ENGINEERING

Richard M. Dunphy
DESIGN ENGINEER

PRECAST REINFORCED CONCRETE CATCH BASIN W/ CAST IRON GRATE

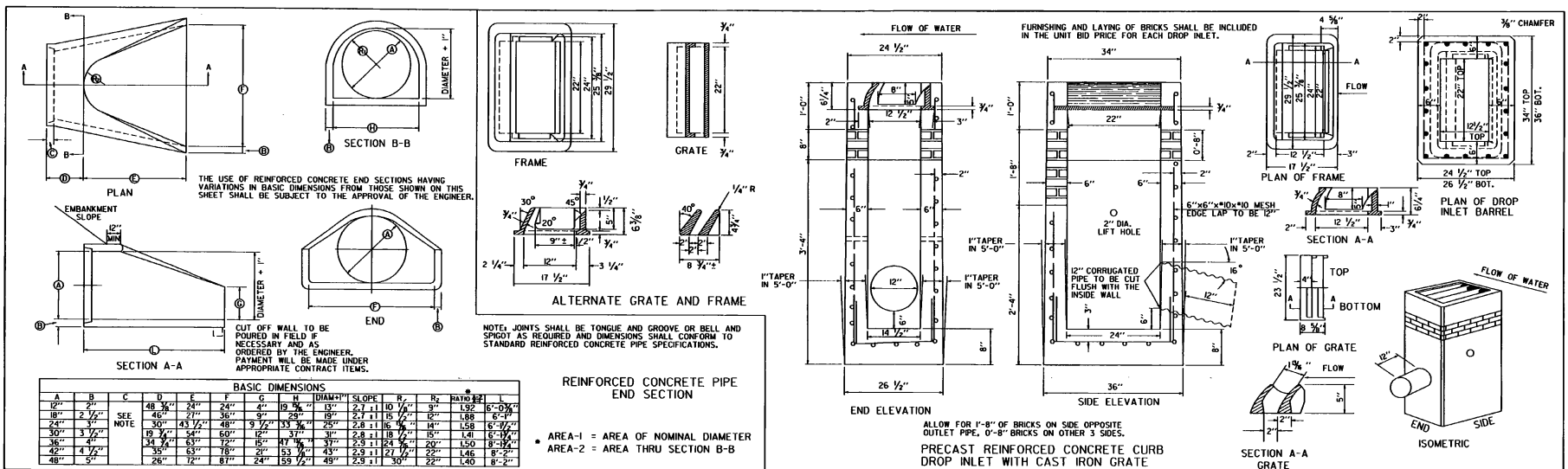
PRECAST REINFORCED CONCRETE MANHOLE W/ CAST IRON COVER

CAST IRON GRATE WITH FRAME, TYPE D

CAST IRON GRATE WITH FRAME, TYPE E

VERMONT AGENCY OF TRANSPORTATION

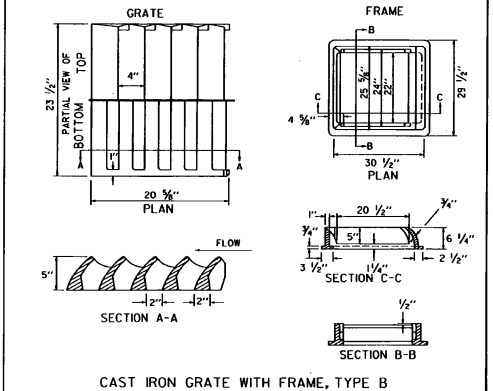
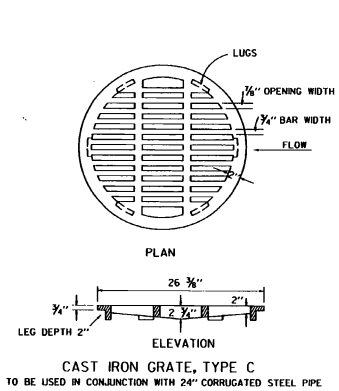
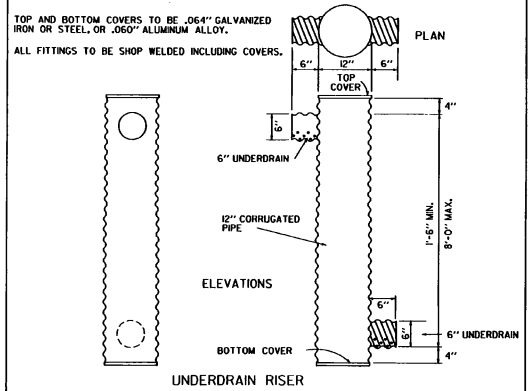
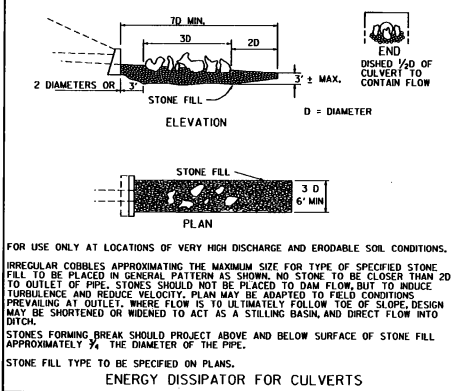
STANDARD D-15



BASIC DIMENSIONS

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
12"	2 1/2"	46 3/4"	24"	24"	36"	19 1/2"	13"	19 1/2"	10 1/2"	9"	1.92	8'-0"	8'-0"	18"	2 1/2"	11 1/2"	15 1/2"	12"	1.88	8'-1"					
18"	2 1/2"	46 3/4"	27"	36"	36"	19 1/2"	13"	19 1/2"	10 1/2"	9"	1.92	8'-0"	8'-0"	18"	2 1/2"	11 1/2"	15 1/2"	12"	1.88	8'-1"					
24"	3"	46 3/4"	30"	42"	48"	19 1/2"	13"	19 1/2"	10 1/2"	9"	1.92	8'-0"	8'-0"	18"	2 1/2"	11 1/2"	15 1/2"	12"	1.88	8'-1"					
30"	3 1/2"	46 3/4"	34"	48"	54"	19 1/2"	13"	19 1/2"	10 1/2"	9"	1.92	8'-0"	8'-0"	18"	2 1/2"	11 1/2"	15 1/2"	12"	1.88	8'-1"					
36"	4"	46 3/4"	38"	54"	60"	19 1/2"	13"	19 1/2"	10 1/2"	9"	1.92	8'-0"	8'-0"	18"	2 1/2"	11 1/2"	15 1/2"	12"	1.88	8'-1"					
42"	4 1/2"	46 3/4"	42"	60"	66"	19 1/2"	13"	19 1/2"	10 1/2"	9"	1.92	8'-0"	8'-0"	18"	2 1/2"	11 1/2"	15 1/2"	12"	1.88	8'-1"					
48"	5"	46 3/4"	46"	66"	72"	19 1/2"	13"	19 1/2"	10 1/2"	9"	1.92	8'-0"	8'-0"	18"	2 1/2"	11 1/2"	15 1/2"	12"	1.88	8'-1"					

* AREA-1 = AREA OF NOMINAL DIAMETER
* AREA-2 = AREA THRU SECTION B-B

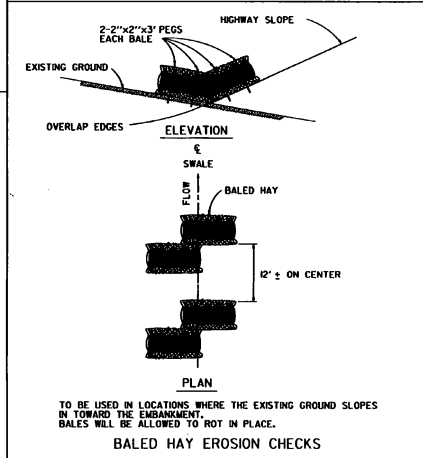
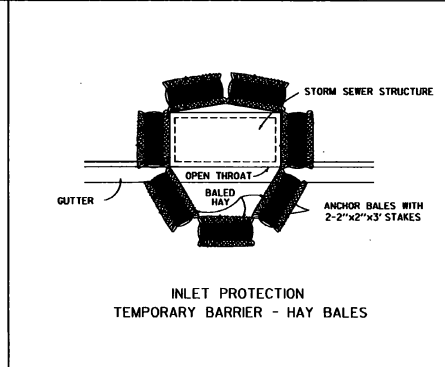
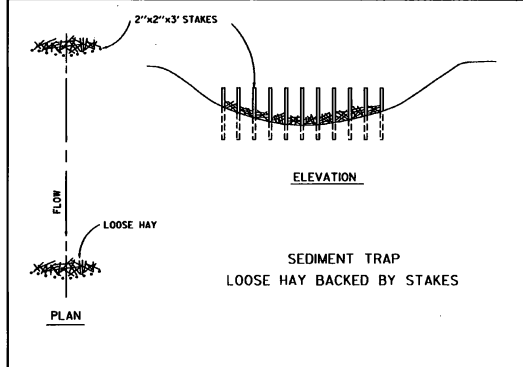
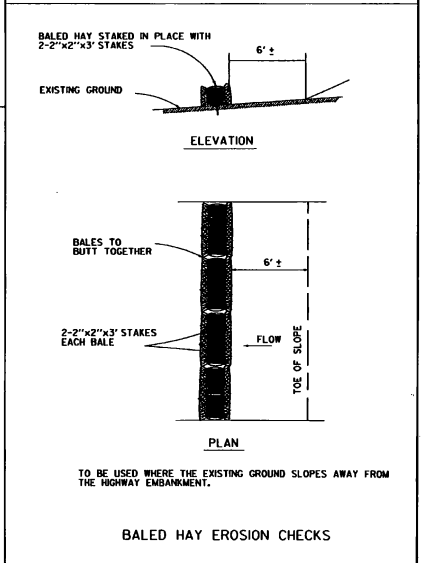
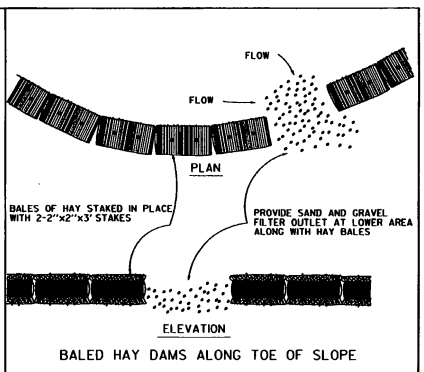
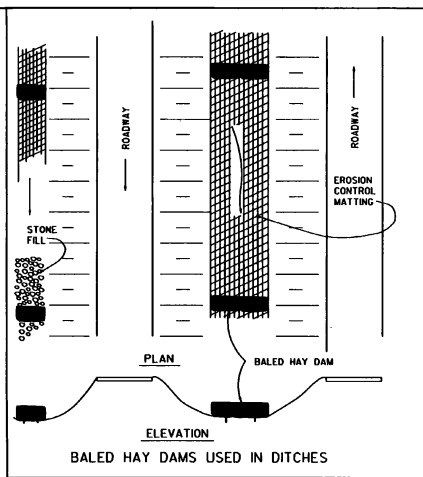
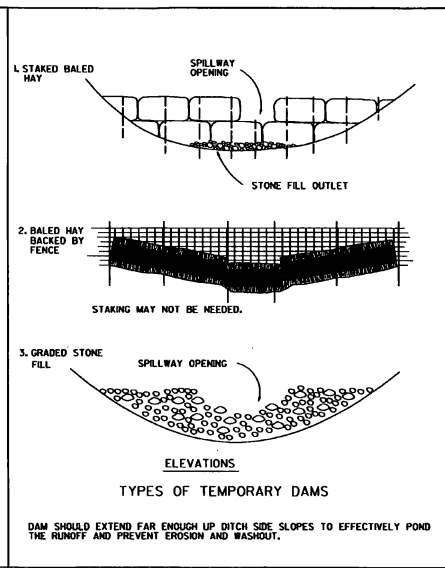
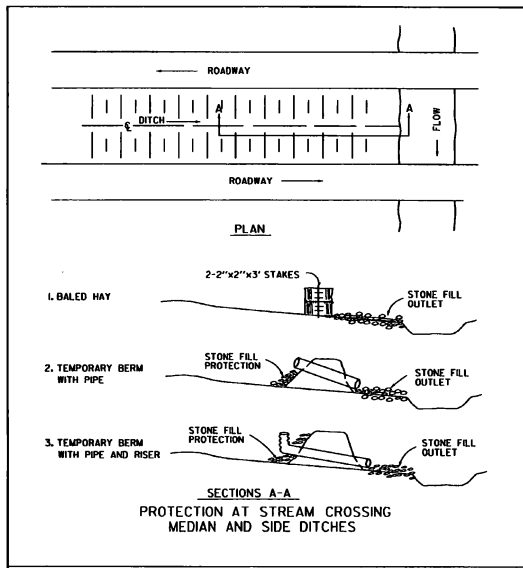


REVISIONS AND CORRECTIONS
DEC. 8, 1971 - ORIGINAL APPROVAL
NOV. 14, 1972 - RCP END SECTION DIMENSION VARIANCE NOTE ADDED
OCT. 30, 1985 - REVISED TO CONFORM WITH 1986 SPECIFICATIONS
JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

APPROVED
APPROVED FOR THIS PROJECT AND FOR DESIGN APPLICATIONS PER THE FINAL APPROVAL PERMITS.
Richard D. MacArthur, P.E.
DIRECTOR OF ENGINEERING
John M. Murphy, P.E.
DESIGN ENGINEER

PRECAST REINFORCED CONCRETE CURB DROP INLET WITH CAST IRON GRATE
CAST IRON GRATE, TYPE B
CAST IRON GRATE, TYPE C
UNDERDRAIN RISER
REINFORCED CONCRETE PIPE END SECTION
ENERGY DISSIPATOR FOR CULVERT

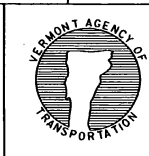
VERMONT AGENCY OF TRANSPORTATION
STANDARD D-16



REVISIONS AND CORRECTIONS
JUL. 5, 1972 - ORIGINAL APPROVAL
JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

APPROVED
APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION (FINAL APPROVAL PENDING)
Stephen P. MacArthur
DIRECTOR OF ENGINEERING
John D. Murphy
DESIGN ENGINEER

TEMPORARY EROSION CONTROL DETAILS



STANDARD
T-2