

**NOTES**

- THE WEARING COURSE SHALL BE TYPE IIIS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT. THE BASE COURSE OR LEVELING COURSE SHALL BE TYPE IVS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT. ASPHALT CEMENT USED IN THE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT SHALL BE PG 64-28.
- EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL EXISTING PAVEMENT SURFACES, BETWEEN ALL COURSES OF PAVEMENT AND ON COLD PLANED SURFACES AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER.
- SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/- 1/4" (TOTAL PAVEMENT THICKNESS EXCLUDING LEVELING), EXCLUDING LEVELING).
- COLD PLANING SHALL BE COMPLETED AS NOTED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
- ALL EDGES OF PAVEMENT AND TREATED TIMBER CURB SHALL BE BACKED UP TO FULL HEIGHT WITH COLD PLANE GRINDINGS AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.13 AGGREGATE SHOULDERS, RAP.
- ESTIMATED QUANTITIES OF ITEMS 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I, 608.37 TRUCK RENTAL AND 608.40 LOADER RENTAL, TYPE I HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL END SECTION FLARES. AN ESTIMATED QUANTITY OF 203.30 EARTH BORROW HAS BEEN INCLUDED IN THE CASE THAT THE DITCHING MATERIAL IS NOT SUITABLE TO USE IN THE GUARDRAIL END SECTION FLARE. 25 CUBIC YARDS OF EARTH MATERIAL HAS BEEN ESTIMATED FOR EACH NEW GUARDRAIL END SECTION FLARE AREA. GUARDRAIL END SECTION FLARES SHALL BE CAPPED WITH AN ESTIMATED 3' DEPTH OF AGGREGATE SHOULDER MATERIAL UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. THE QUANTITIES INCLUDED REFLECT 5 TONS OF ITEM 402.13 AGGREGATE SHOULDER, RAP FOR EACH NEW GUARDRAIL END SECTION FLARE. ITEM 653.20 TEMPORARY EROSION MATTING SHALL BE PLACED ON SLOPES GREATER THAN 1-6 CREATED BY THE GUARDRAIL END SECTION FLARES. THE QUANTITIES INCLUDED REFLECT 25 SY OF ITEM 653.20 TEMPORARY EROSION MATTING FOR EACH NEW GUARDRAIL END SECTION FLARE.
- THE PROPOSED GUARDRAIL SHALL BE INSTALLED IN A LOCATION THAT MAXIMIZES THE DISTANCE FROM THE CENTER OF THE ROAD TO THE FACE OF GUARDRAIL. 3' OF BACKING IS REQUIRED BEHIND THE FACE OF GUARDRAIL WITH 6' POSTS. IF THIS CANNOT BE OBTAINED, THEN 8' POSTS SHALL BE USED.
- ALL DRIVES, MAILBOX TURNOUTS AND GRAVEL PULLOUTS SHALL RECEIVE A 4' PAVED APRON AS DIRECTED BY THE RESIDENT ENGINEER. ANY AND ALL REQUIRED EXCAVATION OR GRADING IN DRIVE AREAS SHALL BE AS DIRECTED AND WILL BE PAID FOR UNDER THE APPLICABLE RENTAL ITEM(S). IF REQUIRED, A NEW DRIVEWAY SUBBASE SHALL BE CONSTRUCTED AND WILL BE PAID FOR UNDER ITEM 301.28 SUBBASE OF CRUSHED GRAVEL, FINE GRADED. A BITUMINOUS SURFACE SHALL BE CONSTRUCTED AS DIRECTED AND WILL BE PAID FOR UNDER ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 64-28). ESTIMATED QUANTITIES OF THE ABOVE ITEMS HAVE BEEN INCLUDED TO PAY FOR THIS WORK.
- AN ESTIMATED QUANTITY OF ITEM 619.17 YIELDING MARKER POSTS HAS BEEN INCLUDED TO DELINEATE PIPE INLETS, PIPE OUTLETS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE OR AS DIRECTED BY THE RESIDENT ENGINEER.
- EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE RESIDENT ENGINEER SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. EXCAVATION WILL BE PAID FOR AS ALL PURPOSE EXCAVATOR RENTAL, TYPE I OR POWER GRADER RENTAL. MATERIAL REMOVED SHALL BE REPLACED WITH SUBBASE OF CRUSHED GRAVEL, FINE GRADED. EXCAVATED MATERIAL SHALL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT AS DIRECTED BY THE RESIDENT ENGINEER.
- PIPE INLET AND OUTLET AREAS AND AREAS OF DITCH CLEANING THROUGHOUT THE PROJECT SHALL BE PERFORMED AT LOCATIONS SPECIFIED ON PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT SHALL BE MADE UNDER APPLICABLE RENTAL ITEM(S).
- ESTIMATED QUANTITIES OF ITEM 613.10 STONE FILL, TYPE I, ITEM 649.31 GEOTEXTILE UNDER STONE FILL AND ITEM 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I HAVE BEEN INCLUDED TO PROVIDE FOR REPAIR OF EXISTING STONE LINED DRAINAGE OUTLETS OR WASHOUTS LOCATED ALONG THE ROADWAY SIDE SLOPES AS DIRECTED BY THE RESIDENT ENGINEER.

**CONSERVATION SEED MIX**

RURAL AREA - SEED MIXTURE				
% WT.	LBS./A.	NAME	PUR. %	GERM. %
37.5	22.5	CREeping RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRD'SFOOT TREFoil	98	85
5.0	3.0	ANNUAL RYEGrASS	95	85
100.0	60.0			

SEED MIXTURE:  
SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS WEED SEED.

SEED:  
TO BE APPLIED PER SEEDING FORMULA OR AS DIRECTED BY THE RESIDENT ENGINEER.

FERTILIZER:  
FORMULA 10-20-10 TO BE USED WITH SEED APPLIED AT THE RATE OF 500 LBS/ACRE (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE:  
TO BE APPLIED AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE RESIDENT ENGINEER.

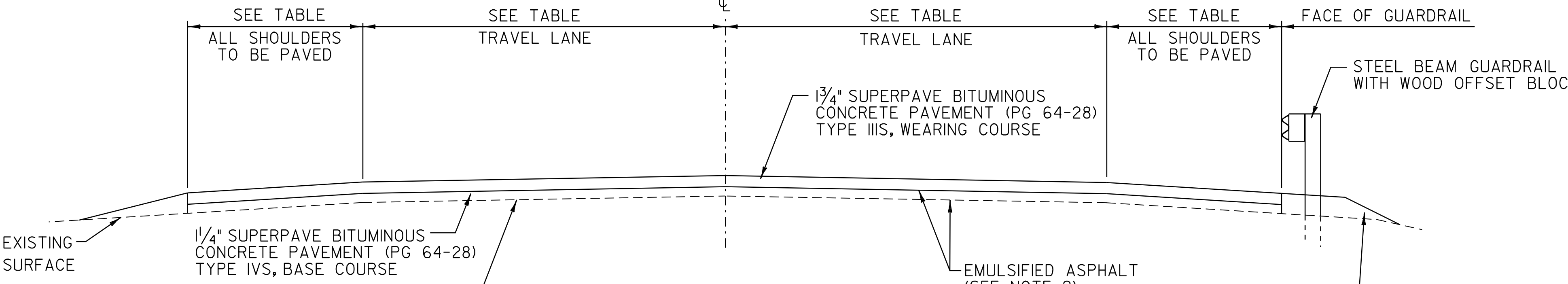
HAY MULCH:  
TO BE APPLIED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE RESIDENT ENGINEER.

TOPSOIL:  
TO BE USED WITH SEED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

**NOT TO SCALE**

**PROJECT TYPICAL SHEET**

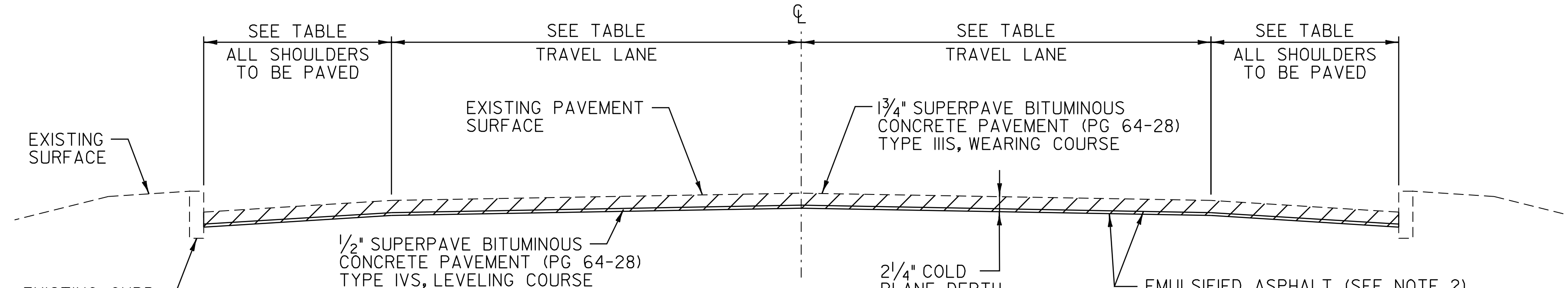
PROJECT NAME: NEW\_HAVEN\_-\_FERRISBURGH  
 PROJECT NUMBER: NH\_2503(I)S  
 FILE NAME: Q5b038.dgn  
 PROJECT LEADER: D.E.G.  
 DESIGNED BY: M.J.M.  
 IPARM FILE: p05b0381v.p.i  
 PLOT DATE: 31-JUL-2009 15  
 DRAWN BY: C.A.K.  
 CHECKED BY: D.W.E.  
 SHEET 3 OF 87



**OVERLAY TYPICAL SECTION**

U.S. ROUTE 7 NEW HAVEN	STA 322+02.72	TO NEW HAVEN	STA 406+03.20
U.S. ROUTE 7 WALTHAM	STA 0+00.00	TO WALTHAM	STA 85+65.00
U.S. ROUTE 7 FERRISBURGH	STA 17+00.00	TO FERRISBURGH	STA 77+60.00
U.S. ROUTE 7 FERRISBURGH	STA 82+90.00	TO FERRISBURGH	STA 133+50.00
U.S. ROUTE 7 FERRISBURGH	STA 192+00.00	TO FERRISBURGH	STA 364+30.00
U.S. ROUTE 7 FERRISBURGH	STA 370+40.00	TO FERRISBURGH	STA 384+75.36

AGGREGATE SHOULDERS, RAP (TOPSOIL & SEED IN LAWN AREAS) (TYP) (SEE NOTE 5)



**COLD PLANE TYPICAL SECTION**

U.S. ROUTE 7 WALTHAM	STA 85+65.00	TO WALTHAM	STA 86+22.24
U.S. ROUTE 7 FERRISBURGH	STA 0+00.00	TO FERRISBURGH	STA 17+00.00
U.S. ROUTE 7 FERRISBURGH	STA 77+60.00	TO FERRISBURGH	STA 82+90.00
U.S. ROUTE 7 FERRISBURGH	STA 133+50.00	TO FERRISBURGH	STA 192+00.00
U.S. ROUTE 7 FERRISBURGH	STA 364+30.00	TO FERRISBURGH	STA 370+40.00

**PROJECT PAVING LIMITS**

TOWN & ROUTE	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	LEVELING TON	NOTES
<b>NEW HAVEN:</b>						
U.S. ROUTE 7	322+02.72	331+00.00	9'-0" - 12'-0" - 12'-0" - 9'-0"	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
U.S. ROUTE 7	331+00.0	406+03.20	5'-0" - 12'-0" - 12'-0" - 5'-0"	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
<b>WALTHAM:</b>						
U.S. ROUTE 7	0+00.00	53+50.00	5'-0" - 12'-0" - 12'-0" - 5'-0"	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
U.S. ROUTE 7	53+50.00	65+37.50	VARIES - SEE LAYOUT	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
U.S. ROUTE 7	65+37.50	80+75.00	5'-0" - 11'-0" - 12'-0" - 12'-0" - 6'-0"	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
U.S. ROUTE 7	80+75.00	85+65.00	VARIES - SEE LAYOUT	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
U.S. ROUTE 7	85+65.00	86+22.24	VARIES - SEE LAYOUT	1 3/4"	11	COLD PLANE 2 1/4", LEVEL 1/2" TYPE IVS & PAVE 1 3/4" TYPE IIIS
<b>FERRISBURGH:</b>						
U.S. ROUTE 7	0+00.00	17+00.00	VARIES - SEE LAYOUT	1 3/4"	352	COLD PLANE 2 1/4", LEVEL 1/2" TYPE IVS & PAVE 1 3/4" TYPE IIIS
U.S. ROUTE 7	17+00.00	22+50.00	VARIES - SEE LAYOUT	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
U.S. ROUTE 7	22+50.00	27+25.00	11'-0" - 12'-0" - 12'-0" - 11'-0"	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
U.S. ROUTE 7	27+25.00	41+80.00	VARIES - SEE LAYOUT	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
U.S. ROUTE 7	41+80.00	70+00.00	11'-0" - 12'-0" - 12'-0" - 11'-0"	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
U.S. ROUTE 7	70+00.00	77+60.00	VARIES - SEE LAYOUT	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
U.S. ROUTE 7	77+60.00	82+90.00	VARIES - SEE LAYOUT	1 3/4"	97	COLD PLANE 2 1/4", LEVEL 1/2" TYPE IVS & PAVE 1 3/4" TYPE IIIS
U.S. ROUTE 7	82+90.00	108+00.00	VARIES - SEE LAYOUT	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
U.S. ROUTE 7	108+00.00	133+50.00	10'-0" - 12'-0" - 12'-0" - 10'-0"	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
U.S. ROUTE 7	133+50.00	136+24.00	VARIES - SEE LAYOUT	1 3/4"	33	COLD PLANE 2 1/4", LEVEL 1/2" TYPE IVS & PAVE 1 3/4" TYPE IIIS
U.S. ROUTE 7	136+24.00	137+83.00	3'-6" - 12'-0" - 12'-0" - 3'-6"	1 1/4"	-	BR 137 COLD PLANE 1 1/4" & PAVE 1 1/4" TYPE IVS
U.S. ROUTE 7	137+83.00	140+30.00	VARIES - SEE LAYOUT	1 3/4"	28	COLD PLANE 2 1/4", LEVEL 1/2" TYPE IVS & PAVE 1 3/4" TYPE IIIS
U.S. ROUTE 7	140+30.00	147+20.00	10'-0" - 12'-0" - 12'-0" - 10'-0"	1 3/4"	93	COLD PLANE 2 1/4", LEVEL 1/2" TYPE IVS & PAVE 1 3/4" TYPE IIIS
U.S. ROUTE 7	147+20.00	160+50.00	10'-6" - 12'-0" - 12'-0" - 10'-6"	1 3/4"	185	COLD PLANE 2 1/4", LEVEL 1/2" TYPE IVS & PAVE 1 3/4" TYPE IIIS
U.S. ROUTE 7	160+50.00	170+35.00	VARIES - SEE LAYOUT	1 3/4"	128	COLD PLANE 2 1/4", LEVEL 1/2" TYPE IVS & PAVE 1 3/4" TYPE IIIS
U.S. ROUTE 7	170+35.00	192+00.00	8'-0" - 12'-0" - 12'-0" - 8'-0"	1 3/4"	270	COLD PLANE 2 1/4", LEVEL 1/2" TYPE IVS & PAVE 1 3/4" TYPE IIIS
U.S. ROUTE 7	192+00.00	327+00.00	8'-0" - 12'-0" - 12'-0" - 8'-0"	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
U.S. ROUTE 7	327+00.00	329+77.00	3'-0" - 12'-0" - 12'-0" - 3'-0"	1 1/4"	-	BR 139 COLD PLANE 1 1/4" & PAVE 1 1/4" TYPE IVS
U.S. ROUTE 7	329+77.00	362+85.00	8'-0" - 12'-0" - 12'-0" - 8'-0"	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
U.S. ROUTE 7	362+85.00	364+30.00	VARIES - SEE LAYOUT	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
U.S. ROUTE 7	364+30.00	370+40.00	VARIES - SEE LAYOUT	1 3/4"	97	COLD PLANE 2 1/4", LEVEL 1/2" TYPE IVS & PAVE 1 3/4" TYPE IIIS
U.S. ROUTE 7	370+40.00	372+35.00	VARIES - SEE LAYOUT	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
U.S. ROUTE 7	372+35.00	384+75.36	8'-6" - 12'-0" - 12'-0" - 8'-6"	1 3/4"	-	PAVE WITH 1/4" TYPE IVS & 1 3/4" TYPE IIIS
FERRISBURGH STATE HIGHWAY	0+00.00	7+83.00	3'-0" - 12'-0" - 12'-0" - 3'-0"	1 3/4"	-	COLD PLANE 2 1/4", LEVEL 1/2" TYPE IVS & PAVE 1 3/4" TYPE IIIS