STRUCTURAL PAVEMENT DESIGN INFORMATION

STRUCTURAL TRAFFIC: YEAR: 2024

PV= 5001 SU= 375 MU= 1,000

ROAD/STREET CLASSIFICATION: CLASS I

P= 78.43% S= 5.88% M= 15.69%

TRAFFIC FACTOR: ACTUAL TF= 4.8

MINIMUM TF= 7.1

SUBGRADE SUPPORT RATING:
SSR= POOR

PROPOSED LEGEND

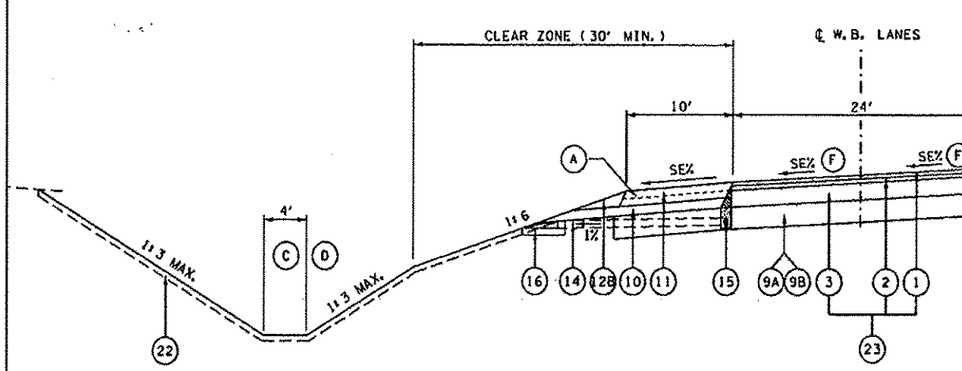
- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 2"
- (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-12.5, N70 2.25"
- (3) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 8"
- ✱✱ (9A) SUB-BASE GRANULAR MATERIAL, TYPE A, 12"
- ✱✱ (9B) LIME MODIFIED SOIL 12"
- (10) EMBANKMENT
- (11) HOT-MIX ASPHALT SHOULDERS 8"
- (12) AGGREGATE SHOULDERS, TYPE B, 8"
- (12B) AGGREGATE WEDGE SHOULDER, TYPE B
- (14) PIPE UNDERDRAIN 4" (SPECIAL) (STD 601201-D4) AT 1% SLOPE
- (15) 4" PERFORATED CORRUGATED POLYETHYLENE TUBING @ 0.40% MIN. SLOPE (SEE PROP. UNDERDRAIN PROFILE SHEETS) (PAID FOR AS "PIPE UNDERDRAINS 4")
- (16) CONCRETE HEADWALL FOR PIPE DRAIN (PER STD 601101)
- (22) 4" TOPSOIL PLACEMENT
- ✱ (23) HMA PAVEMENT (FULL DEPTH), 12.25"

LEGEND NOTES:

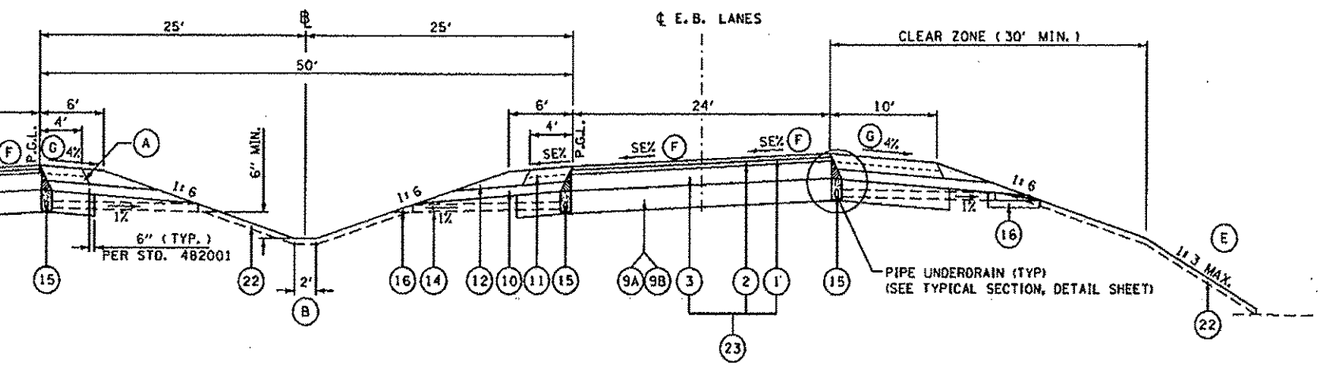
✱ ITEMS 1, 2, & 3 WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR HMA PAVEMENT (FULL-DEPTH), 12.25"

1 ✱✱ SUB-BASE GRANULAR MATERAIL IS REQUIRED AT SELECTED LOCATIONS. SEE SCHEDULE. ~~CONTRACTOR OPTION FOR SUBGRADE IMPROVEMENT METHOD AT ALL OTHER LOCATIONS.~~

CUT SECTION



FILL SECTION



US ROUTE 34 SUPERELEVATED SECTION

STA 534+06.47 TO STA 550+33.11
STA 601+84.35 TO STA 619+08.45
STA 699+15.91 TO STA 714+56.72
STA 782+18.79 TO STA 798+04.58

NOTES:

(A) CONSTRUCT HMA AND AGGREGATE SHOULDER UP TO TOP OF HMA BINDER COURSE 8" PRIOR TO PLACING 2.25" BINDER AND 2" SURFACE COURSES.

(B) STANDARD MEDIAN DITCH DEPTH IS 3.24 FT. BELOW PROFILE GRADE LINE.

(C) STANDARD OUTER DITCH DEPTH IS 5.00 FT. BELOW OUTSIDE EDGE OF PAVEMENT.

(D) CONTINUE 1:6 FORESLOPE WHEN DITCH DEPTH IS 7.00 FT. OR LESS BELOW OUTSIDE EDGE OF PAVEMENT. USE 1:3 FORESLOPE OUTSIDE CLEAR ZONE (30') WHEN DITCH DEPTH IS GREATER THAN 7.00 FT.

(E) SEE TYPICAL BENCH DETAIL IN FORESLOPE (WHERE APPLICABLE)

(F) SEE SUPERELEVATION DETAIL SHEETS FOR SUPERELEVATION RATE AND TRANSITION.

(G) IF S.E. IS GREATER THAN 4%, THEN SHOULDER SLOPE WILL VARY 8% MAXIMUM ROLLOVER.

1 REVISED 1-8-13

FILE NAME = D468409-SHT-84-TYP-US34-SE.dgn	USER NAME = zach1	DESIGNED - DBS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS US ROUTE 34 – SUPERELEVATED			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - PSBA	REVISED -					313	7-2; 6-1	HENDERSON	976 / 84
	PLOT SCALE = 100.0000 ' / in.	CHECKED - CSB	REVISED -							CONTRACT NO. 68409	
	PLOT DATE = 10/18/2012	DATE - 10/2012	REVISED -		SCALE: N.A.	SHEET NO. 4 OF 18 SHEETS	STA. TO STA.		ILLINOIS FED. AID PROJECT		