STRUCTURAL PAVEMENT DESIGN INFORMATION

STRUCTURAL TRAFFIC: YEAR: 2024

SU= 375

PV= 5001

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

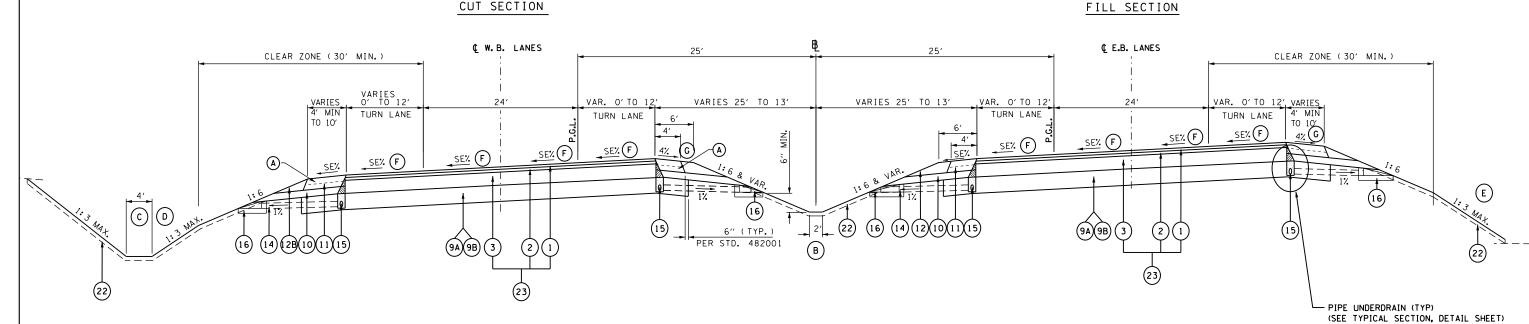
SUBGRADE SUPPORT RATING: SSR= POOR

- POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 2"
- POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-12.5, N70 2.25"
- HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 8"
- * * (9A) SUB-BASE GRANULAR MATERIAL, TYPE A, 12"
- * * (9B) LIME MODIFIED SOIL 12"

PROPOSED LEGEND

- **EMBANKMENT**
- HOT-MIX ASPHALT SHOULDERS 8"
- AGGREGATE SHOULDERS, TYPE B, 8'
- (12B) AGGREGATE WEDGE SHOULDER, TYPE B
- PIPE UNDERDRAIN 4" (SPECIAL) (STD 601201-D4) AT 1% SLOPE
- 4" PERFORATED CORRUGATED POLYETHYLENE TUBING © 0.40% MIN. SLOPE (SEE PROP. UNDERDRAIN PROFILE SHEETS) (PAID FOR AS "PIPE UNDERDRAINS 4")
- CONCRETE HEADWALL FOR PIPE DRAIN (PER STD 601101)
- 4" TOPSOIL PLACEMENT
- HMA PAVEMENT (FULL DEPTH), 12.25"

- * ITEMS 1, 2, & 3 WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR HMA PAVEMENT (FULL-DEPTH), 12.25"
- * * Sub-base granular materall is required at selected locations. See schedule. Contractor option for subgrade improvement method at all other locations.



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.
- OD 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.

US ROUTE 34 SUPERELEVATED SECTION WITH TURN LANES

STA 533+33.05 TO STA 534+06.47

STA 550+33.11 TO STA 552+34.80

STA 698+53.45 TO STA 699+15.91

STA 714+56.72 TO STA 718+50.83

STA 779+31.42 TO STA 782+18.79

STA 798+04.58 TO STA 802+69.13

FILE NAME = DBS REVISED DESIGNED -USER NAME = zachl SECTION COUNTY TYPICAL SECTIONS STATE OF ILLINOIS D468409-SHT-05-TYP-US34-SE-TURN.dar DRAWN PSBA REVISED 313 7-2; 6-1 HENDERSON 976 85 US ROUTE 34 - TURN LANE SUPERELEVATED CHECKED CSB REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 68409 SHEET NO. 5 OF 18 SHEETS STA. PLOT DATE = 10/16/2012 10/2012 REVISED DATE