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

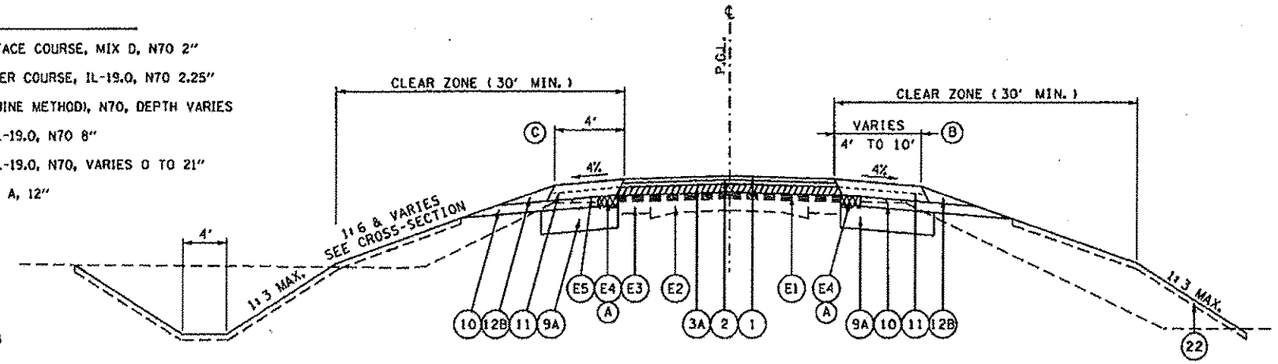
- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 2"
- (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 2.25"
- (2A) POLYMERIZED LEVELING BINDER (MACHINE METHOD), N70, DEPTH VARIES
- (3) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 8"
- (3A) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIES 0 TO 21"
- ✱✱ (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
- (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"

✱✱ SUB-BASE GRANULAR MATERAIL IS REQUIRED AT:
STA 1516+39.24 TO STA 1521+67.87 (WT-WBL)
STA 3515+30.00 TO STA 3523+00.00 (WT-EBL)
~~CONTRACTOR OPTION FOR SUBGRADE IMPROVEMENT METHOD AT ALL OTHER LOCATIONS.~~

✱✱✱ PLACE ADDITIONAL SUB GRAN MAT A ABOVE 12"
SUB GRAN MAT A TO BOTTOM OF HMA SHOULDER.



EAST TRANSITION TO EASTBOUND LANE (ET-EBL) US ROUTE 34

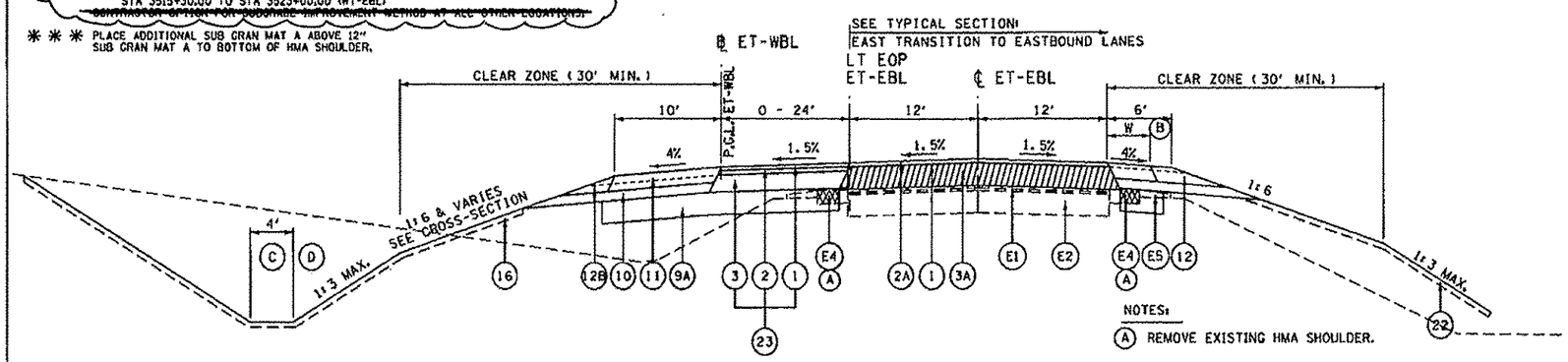
STA 2821+53.35 TO STA 2824+70.49
STA 2824+70.49 TO STA 2825+00.49 (BUTT JOINT STD. 406101-04)

NOTES:

(A) REMOVE EXISTING HMA SHOULDER.

(B) RT HMA SHOULDER WIDTH TRANSITION RATE 1:60
STA 2821+10.49, W = 10' TO STA 2824+70.49, W = 4'

(C) LT HMA SHOULDER WIDTH
STA 2821+53.35 TO STA 2824+70.49, W = 4'

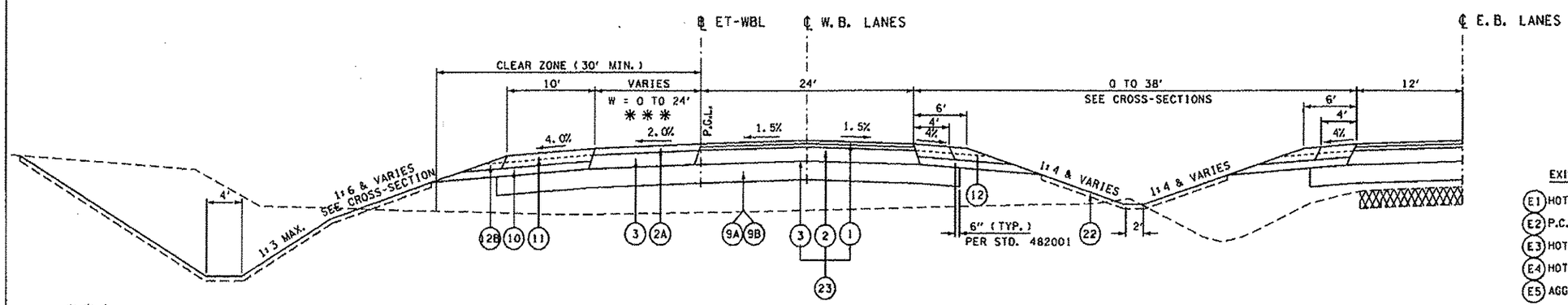


NOTES:

(A) REMOVE EXISTING HMA SHOULDER.

EAST TRANSITION TO WESTBOUND LANE (ET-WBL) US ROUTE 34

STA 3816+37.49 TO STA 3821+57.71



EAST TRANSITION TO WESTBOUND LANE (ET-WBL) US ROUTE 34

STA 3809+63.87 TO STA 3816+37.49

✱✱✱ PROVIDE WESTBOUND LANE STUB-OUT FOR FUTURE US ROUTE 34
WIDTH VARIES
W = 0.0' @ STA 3809+63.87 TO
W = 24.0' @ STA 3813+92.30
W = 24.0' FROM STA 3813+92.30 TO STA 3815+50.44
END FUTURE W.B.L. STUB-OUT @ STA 3815+50.44

EXISTING LEGEND

- (E1) HOT-MIX ASPHALT OVERLAY - THICKNESS VARIES
- (E2) P.C.C. PAVEMENT (9-6-9)
- (E3) HOT-MIX ASPHALT BASE CSE/ BASE CSE WIDENING
- (E4) HOT-MIX ASPHALT SHOULDER
- (E5) AGGREGATE SHOULDERS

REVISED 1-8-13

FILE NAME = D468409-SHT-07-TYP-US34-EAST.dgn	USER NAME = xeohl	DESIGNED - DBS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS EAST TRANSITION TO EXISTING US ROUTE 34	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - PSBA	REVISED -			313	7-2; 6-1	HENDERSON	976	87
	PLOT SCALE = 100.0000 ' / in.	CHECKED - CSB	REVISED -					CONTRACT NO. 68409		
	PLOT DATE = 10/16/2012	DATE - 10/2012	REVISED -		SCALE: N.A. / SHEET NO. 7 OF 18 SHEETS / STA. / TO STA.		ILLINOIS FED. AID PROJECT			