

PAVEMENT STRUCTURE DESIGN

| | |
|--|---------------------------------------|
| STRUCTURAL DESIGN TRAFFIC: | YEAR 2024 |
| PV = 9470 | SU = 595 MU = 235 |
| ROAD/STREET CLASSIFICATION: | CLASS 1 |
| PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE: | |
| P = 32% | S = 45% M = 45% |
| TRAFFIC FACTOR: | ACTUAL TF = 1.74 MINIMAL TF = 3.56 |
| PG GRADE: | BINDER = 64-22 SURFACE = 64-22 |

NOMINAL THICKNESS FOR EACH LIFT OF BINDER SHALL BE AS FOLLOWS:

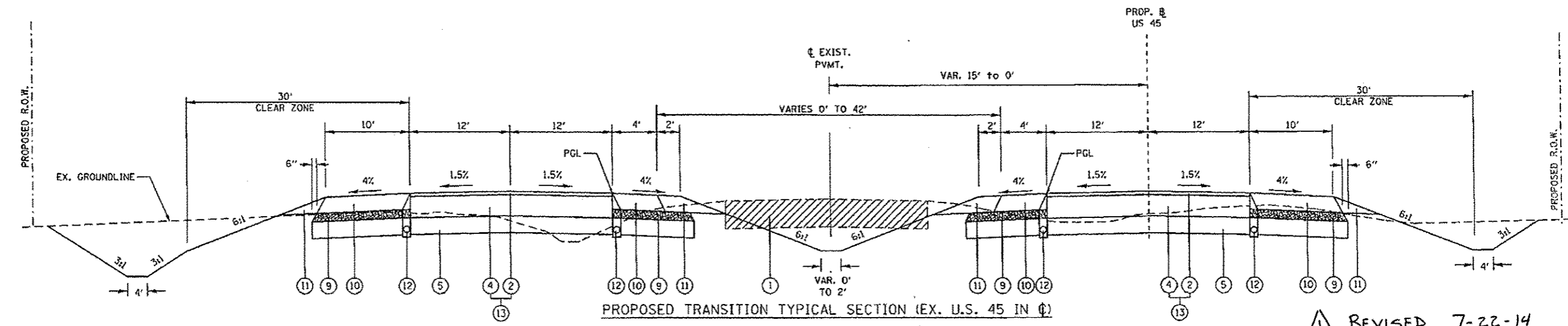
| | |
|---------------|--------|
| 9 1/4" BINDER | |
| 1st LIFT | 5" |
| 2nd LIFT | 4 1/4" |

PROPOSED TRANSITION TYPICAL SECTION

TO BE USED: STA. 447+58.73 TO 449+88.13
SEE CROSS SECTIONS FOR DITCH LOCATIONS AND ELEVATIONS

NOTE: ALT A & ALT B OPTION BEGINS AT STATION 449+88.13 AND CONTINUES TO THE END OF THE PROJECT.

- LEGEND**
- ① EXISTING HOT-MIX ASPHALT RESURFACED PGE PAVEMENT, 1.5"
 - ② HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90, 2"
 - ③ HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
 - ④ HOT-MIX ASPHALT BINDER COURSE, N90, IL-19.0, 9 1/4"
 - ⑤ PROCESSING LIME MODIFIED SOILS (12" MIN.) (SEE GEOTECHNICAL REPORT FOR DEPTH OF PROPOSED LIME MODIFICATION)
 - ⑥ COMBINATION CONCRETE CURB & CUTTER, TYPE B-6.24
 - ⑧ STRIP REFLECTIVE CRACK CONTROL TREATMENT
 - ⑨ SUB-BASE GRANULAR MATERIAL TYPE "C" (TO BE OMITTED IF ALT B IS USED)
 - ⑩ ALT A: HOT-MIX ASPHALT SHOULDERS, 8"
OR
ALT B: PORTLAND CEMENT CONCRETE SHOULDERS, 9"
 - ⑪ AGGREGATE SHOULDERS, TYPE B
 - ⑫ PIPE UNDERDRAINS, 4" (HWY STD. 601001)
 - ⑬ ALT A: HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11.25"
OR
ALT B: PORTLAND CEMENT CONCRETE PAVEMENT, 9" (JOINTED) & STAB. SUBBASE 4"
- REMOVAL



PROPOSED TRANSITION TYPICAL SECTION (EX. U.S. 45 IN @)

TO BE USED: STA. 449+88.13 TO 458+45.08

REVIS 7-22-14

| | | | | | | | | | | | |
|--|-----------|----------|---------|---|--|-----------|---|---------|--------------------|--------------|-----------|
| FILE NAME | USER NAME | DESIGNED | REVISED | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TYPICAL SECTIONS U.S. 45 | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| PAProjects\2811 Projects\11297 - 1007 US 45 Ph2\CV\CADD Sheets\0978077-shr-typroel.dwg | bemary | DRAWN | REVISED | | 332 | 129,30R-1 | SALINE | 745 | 26 | | |
| PLOT SCALE = 1/8" = 1'-0" | | CHECKED | REVISED | | SCALE: N.T.S. SHEET NO. 3 OF SHEETS STA. TO STA. | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | CONTRACT NO. 78077 | | |
| PLOT DATE = 7/23/2014 | | DATE | REVISED | | | | | | | | |