

ILLINOIS ROUTE 173
 STA. 429+80.00 TO STA. 432+31.18
 STA. 449+53.82 TO STA. 451+97.00

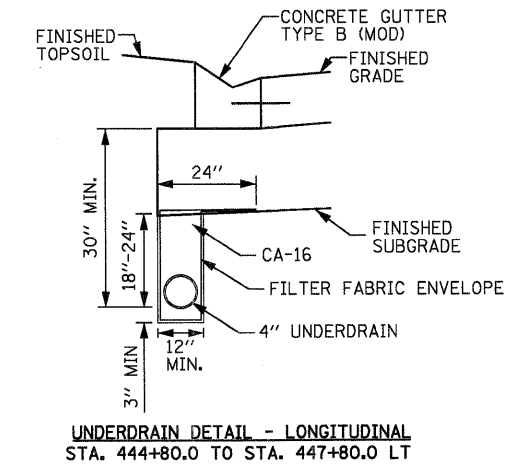
***CONCRETE PAVED DITCH REMOVAL**
 STA. 432+41.60 TO STA. 432+31.18

STRUCTURAL PAVEMENT DESIGN - HMA TEMP. PAVEMENT

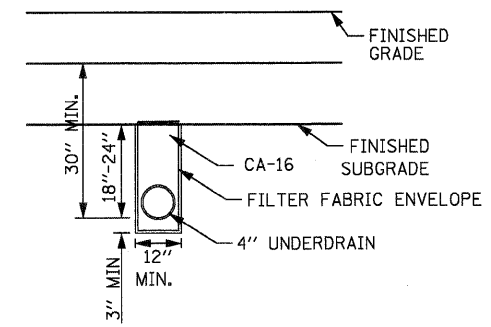
STRUCTURAL DESIGN TRAFFIC: Year 2010
 PV = 3219 SU = 259 MU = 222
 ROAD/STREET CLASSIFICATION: Class 2
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P = 87 S = 7 M = 6
 TRAFFIC FACTOR: Actual TF = 0.12
 Minimum TF = N/A
 PG GRADE: Binder = PG 58-22 Surface = PG 64-22/58-22
 SUBGRADE SUPPORT RATING: SSR = POOR

STRUCTURAL PAVEMENT DESIGN-PCC

STRUCTURAL DESIGN TRAFFIC: Year 2021
 PV = 4785 SU = 385 MU = 330
 ROAD/STREET CLASSIFICATION: Class 2
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P = 87 S = 7 M = 6
 TRAFFIC FACTOR: Actual TF = 4.8
 Minimum TF = 11.02
 EDGE SUPPORT CONDITION: UNTIED
 SUBGRADE SUPPORT RATING: SSR = POOR



UNDERDRAIN DETAIL - LONGITUDINAL
 STA. 444+80.0 TO STA. 447+80.0 LT



UNDERDRAIN DETAIL - TRANSVERSE
 STA. 436+63.1, 439+04.7, 443+00.0, 444+80.0, & 447+80.0

UNDERDRAIN NOTES

- PIPE UNDERDRAINS TO BE PLACED AS INDICATED ON THE PLANS.
- CAPS, PLUGS, WYES, AND TEES ARE CONSIDERED INCLUDED IN THE COST OF THE UNDERDRAINS.
- ALL END RUNS SHALL HAVE A CAP OR PLUG.
- UNDERDRAINS SHALL BE CONNECTED AS SHOWN ON THE PLANS WHICH COST IS INCLUDED IN THE COST OF THE UNDERDRAINS.
- UNDERDRAIN MATERIAL SHALL BE PERFORATED CORRUGATED POLYETHYLENE TUBING.
- EXCAVATION, FABRIC AND POROUS GRANULAR BACKFILL AS SPECIFIED SHALL BE INCLUDED IN THE COST OF THE UNDERDRAIN.

LEGEND, EXISTING

- (A) EXISTING PCC PAVEMENT, 9"-6"-9"
- (B) EXISTING HMA OVERLAY, 4"
- (C) EXISTING HMA SHOULDER
- (D) EXISTING AGGREGATE SHOULDER
- (E) EXISTING PAVEMENT STRUCTURE - FULL DEPTH REMOVAL
- (F) EXISTING PAVEMENT STRUCTURE - SURFACE MILLING
- (G) EXISTING PAVEMENT STRUCTURE - PAVEMENT BREAKING
- (H) EXISTING HMA SHOULDER - TO BE REMOVED
- (J) EXISTING AGGREGATE SHOULDER - TO BE REMOVED
- (K) EXISTING CONCRETE PAVED DITCH TO BE REMOVED
- (L) EXISTING CURB AND GUTTER TO BE REMOVED
- (M) TEMPORARY PAVEMENT - FULL DEPTH REMOVAL
- (N) TEMPORARY PAVEMENT - SURFACE MILLING
- (O) TEMPORARY PAVEMENT - PAVEMENT BREAKING
- (P) EXISTING HMA WIDENING, 9"

LEGEND, PROPOSED

- (1) PCC PAVEMENT, 9/2" (JOINTED)
- (2) 2" HMA SURFACE COURSE, MIX "D", N50
- (3) AGGREGATE SHOULDER, TYPE B, 6"
- (4) AGGREGATE SUBGRADE (12")
- (5) HOT-MIX ASPHALT SHOULDERS, 8/2"
- (6) AGGREGATE BASE COURSE, TYPE B, 4"
- (7) TOPSOIL FURNISH AND PLACE, 6"
- (8) SEEDING CLASS 2A OR 4A W/ EROSION CONTROL BLANKET
- (9) STEEL PLATE BEAM GUARDRAIL, TYPE A (6' POSTS)
- (10) CONCRETE GUTTER, TYPE B (MODIFIED)
- (11) SAWCUT - FULL DEPTH (INCLUDED IN COST OF WORK ITEM)
- (12) PCC SHOULDER, 9/2"
- (13) #6 TIE BARS (INCLUDED IN COST OF PCC PAVEMENT, SHOULDER OR CURB)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
TEMPORARY PAVEMENT WIDENING - STAGE 1A (SEE NOTE 3)	
TEMP PAVEMENT (HMA BINDER IL-19 mm), 7"	4% @ 50 GYR.
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm), 1-1/2"	4% @ 50 GYR.
TEMPORARY OVERLAY - STAGE 1C	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm), 1-1/2"	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm), 2-1/4"	4% @ 50 GYR.
TEMPORARY RAMP	
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm), 1-1/2 "	4% @ 50 GYR.
ROADWAY RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm), 2"	4% @ 50 GYR.
SHOULDERS	
HOT-MIX ASPHALT SHOULDER (HMA BINDER IL-19 mm), 8-1/2"	2% @ 30 GYR.
DRIVEWAYS P.E.	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm), 6"	4% @ 50 GYR.
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.

- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/SQYD/IN.
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.
- IF CONTRACTOR CHOOSES TO USE CONCRETE FOR THE TEMPORARY PAVEMENT THE THICKNESS WILL BE 8-1/2 INCHES.

FILE NAME = P:\CBBEL\WEST Projects\2009\98-08-0147_IL173\Civil\Drawings\1306160229-struct-tp1.dgn

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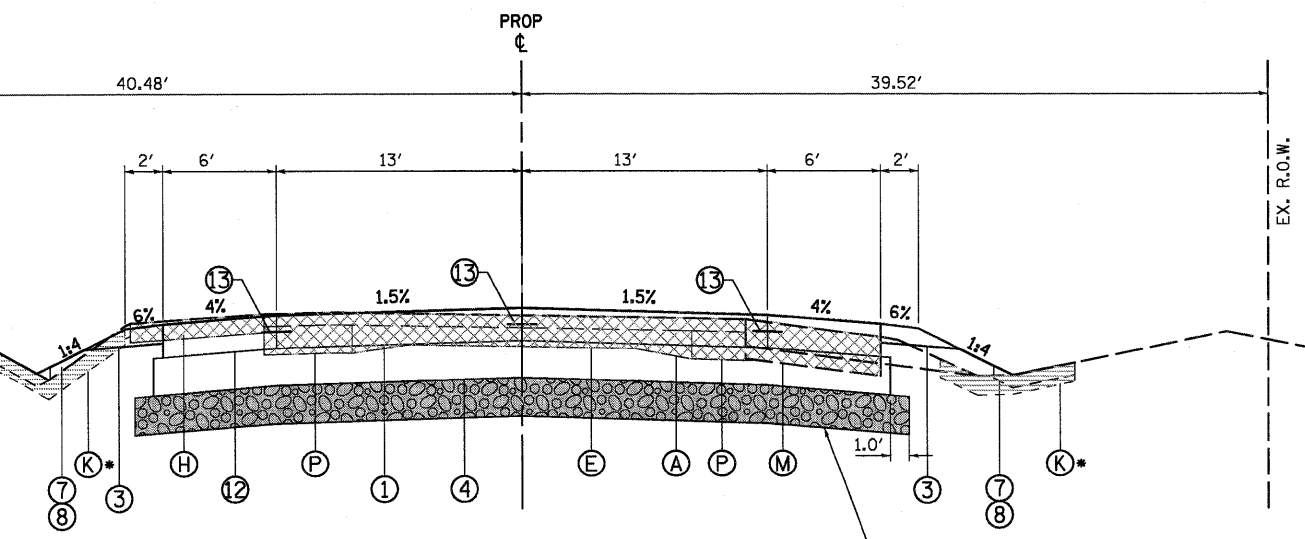
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PLOT DATE = 1/5/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE:	SHEET NO. 7 OF 106 SHEETS	STA. TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	7
CONTRACT NO. 60129				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



***CONCRETE PAVED DITCH REMOVAL**
 STA. 432+31.18 TO STA. 435+88.93 (RT.)
 STA. 434+80.78 TO STA. 436+85.39 (LT.)

ILLINOIS ROUTE 173
 STA. 432+31.18 TO STA. 436+63.06

ESTIMATED 12" UNDERCUT AREA, FILLED WITH 12" PGE SUBGRADE STA. 434+00 TO STA. 436+63 SEE EARTHWORK SCHEDULES FOR QUANTITIES AND GENERAL NOTES.