

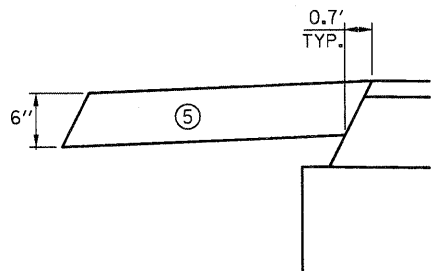
PROPOSED BOLCUM ROAD

STA. 119+67.9 LT./STA. 118+77.9 RT. TO STA 121+42.5

ADD STATION RANGE AND THICKNESS ON UNDERCUT.

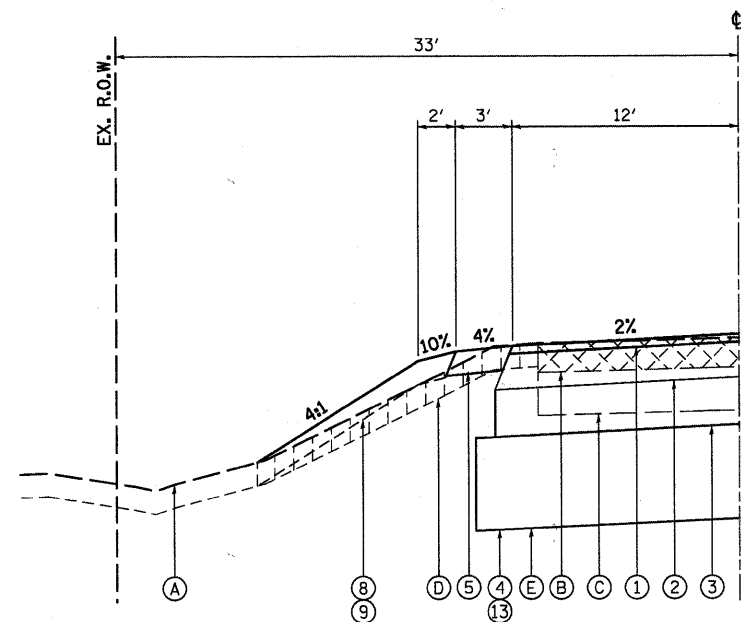
ESTIMATED QUANTITIES FOR UNDERCUTTING, PGES, AND GEOTECHNICAL FABRIC

STATION LIMITS		ESTIMATED THICKNESS PGES
FROM	TO	
118+70	126+60	24 INCHES



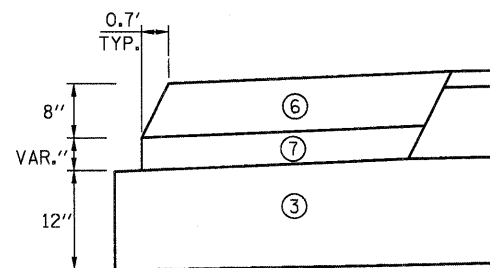
FROM STA. 118+70.00 TO STA. 119+67.86 LT
FROM STA. 125+74.04 TO STA. 126+60.00 LT

AGGREGATE SHOULDER DETAIL



PROPOSED BOLCUM ROAD

STA. 118+70 LT. TO STA 119+67.9 LT.



FROM STA. 119+49.86 TO STA. 121+42.50 LT
FROM STA. 118+70.00 TO STA. 121+42.50 RT
FROM STA. 123+07.58 TO STA. 125+92.04 LT
FROM STA. 123+07.42 TO STA. 125+09.77 RT

HMA SHOULDER DETAIL

LEGEND, EXISTING

- (A) EXISTING GROUND
- (B) EXISTING HOT-MIX ASPHALT PAVEMENT, 7.0"-7.3" (TO BE REMOVED - 44000100)
- (C) EXISTING AGGREGATE BASE, 11" (REMOVED AS NECESSARY- INCLUDED IN EARTH EXCAVATION)
- (D) EXISTING TOPSOIL - (TO BE REMOVED - 20201200)
- (E) EXISTING UNSUITABLE MATERIAL - (TO BE REMOVED - 20201200)

LEGEND, PROPOSED

- (1) 2" HMA SURFACE COURSE, MIX "D", N50 (40603335)
- (2) 9" HMA BINDER COURSE, IL-19.0, N50 (2 LIFTS - 40603080)
- (3) AGGREGATE SUBGRADE, 12" (Z0001050)
- (4) GEOTECHNICAL FABRIC FOR GRND. STABILIZATION (21001000)
- (5) AGGREGATE SHOULDERS, TYPE B 6" (48101500)
- (6) HMA SHOULDERS, 8" (48203029)
- (7) SUB-BASE GRANULAR MATERIAL, TYPE B (31101100)
- (8) 6" TOPSOIL EXCAVATION AND PLACEMENT (21101505)
- (9) SEEDING CLASS 2A, 4(MOD.), 5(MOD.) W/EROSION CONTROL BLANKET
- (10) STRUCTURAL EMBANKMENT (TO BE PAID AS FURNISHED EXCAVATION - 20400800)
- (11) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6" POSTS (63000001)
- (12) PIPE UNDERDRAIN WITH FILTER FABRIC ENVELOPE, 4" (60107600)
- (13) POROUS GRANULAR EMBANKMENT, SUBGRADE (20700420)
- (14) PARAPET (SEE STRUCTURAL PLANS)
- (15) STRIP REFLECTIVE CRACK CONTROL TREATMENT (44300200)
- (16) LEVELING BINDER (MACHINE METHOD), N50 (40600625)
- (17) AGGREGATE WEDGE SHOULDER, TYPE B (48102100)

STRUCTURAL PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC: Year 2030
PV = 9400 SU = 300 MU = 300
ROAD/STREET CLASSIFICATION: Class 2
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P = 94 S = 3 M = 3
TRAFFIC FACTOR: Actual TF = 1.51 AC Type = PG 64-22
Minimum TF = NA
PG GRADE: Binder = PG 64-22 /58-22 Surface = PG 64-22
SUBGRADE SUPPORT RATING: SSR = POOR

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
ITEM	AIR VOIDS @ Ndes
BOLCUM ROAD - RECONSTRUCTION	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 9"	4% @ 50 GYR.
BOLCUM ROAD - RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2"	4% @ 50 GYR.
LEVELING BINDER (MACHINE METHOD), N50	4% @ 50 GYR.
BOLCUM ROAD - APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	4% @ 50 GYR.
HMA SHOULDERS	
HOT-MIX ASPHALT SHOULDER (HMA BINDER IL-19 mm), 8"	2% @ 30 GYR.
DRIVEWAYS- C.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), 8"	4% @ 50 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/SQ YD/IN.
THE AC TYPE FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

FILE NAME = F:\CBBEL WEST Projects\2009\09-0882 Bolcum PHIT.G.v1\Drawn\SHA\TYPICAL_2.dgn



USER NAME = #USER#	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 10/21/2010	CHECKED -	REVISED -
	DATE - 10/22/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
PROPOSED**

SCALE:	SHEET NO. 9 OF 73 SHEETS	STA. TO STA.	F.A.J. RTE. 2332	SECTION 03-14185-02-BR	COUNTY KANE	TOTAL SHEETS 73	SHEET NO. 9
						CONTRACT NO. 63521	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							