

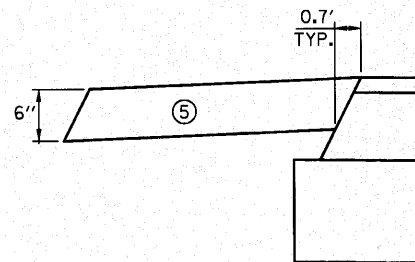
PROPOSED BOLCUM ROAD

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

ADD STATION RANGE AND THICKNESS ON UNDERCUT

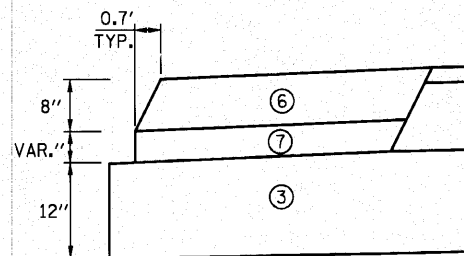
ESTIMATED QUANTITIES FOR UNDERCUTTING, PGES, AND GEOTECHNICAL FABRIC

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



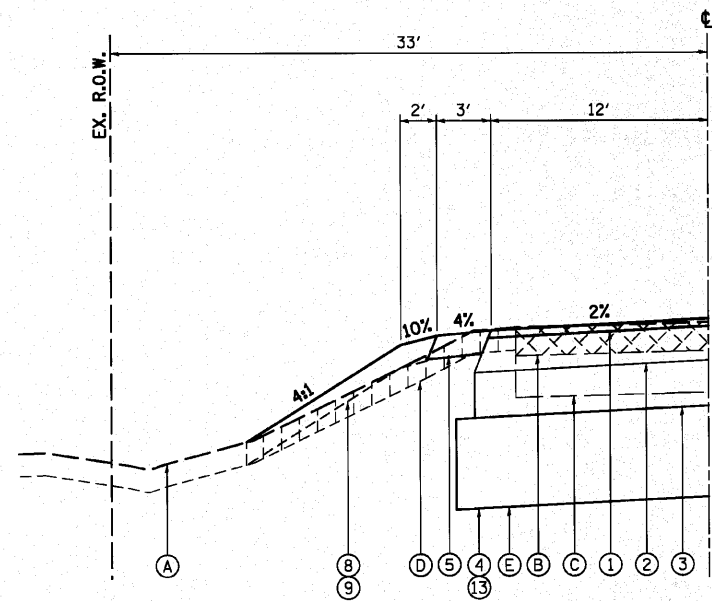
FROM STA. 118+70.00 TO STA. 119+67.86 LT
FROM STA. 125+74.04 TO STA. 126+60.00 LT

AGGREGATE SHOULDER DETAIL



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



PROPOSED BOLCUM ROAD

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

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 = P:\CIBEL\WEST Projects\2289149-8882 Bolcum PH11\Civil\Drawings\TYPICAL.dwg

WBK WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174

| | | |
|------------------------|-----------------|-----------|
| 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.U. RTE. 2332 | SECTION 03-14185-02-BR | COUNTY KANE | TOTAL SHEETS 73 | SHEET NO. 9 |
| FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT | | | CONTRACT NO. 63521 | |