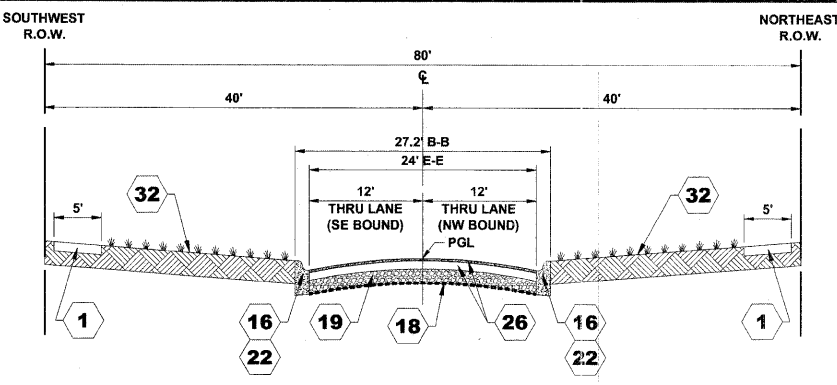
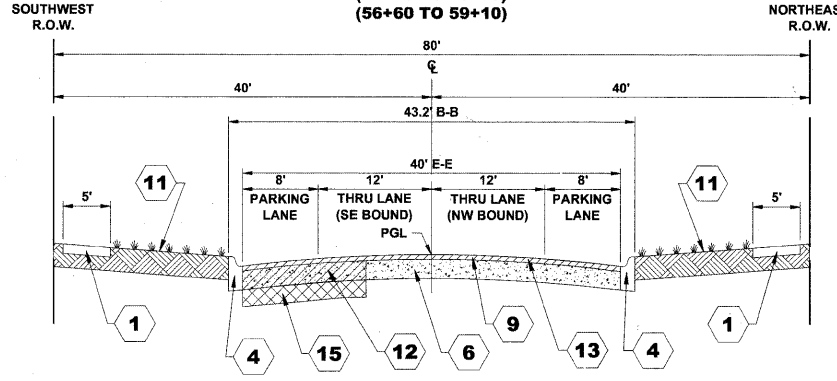


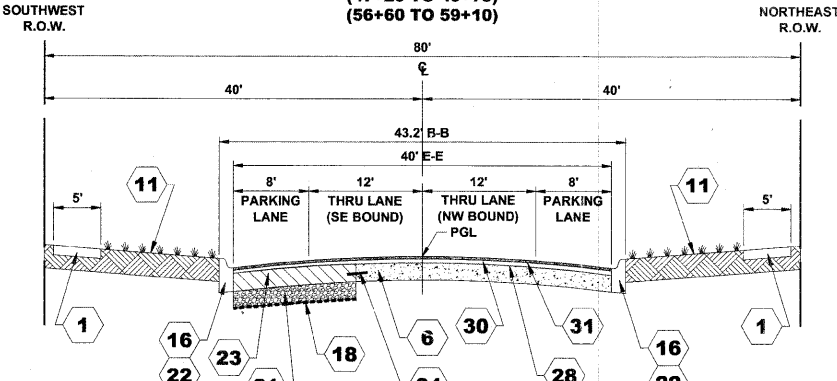
**EXISTING TYPICAL CROSS SECTION**  
**GRAND BOULEVARD**  
 (37+80 TO 40+26)  
 (47+20 TO 49+75)  
 (56+60 TO 59+10)



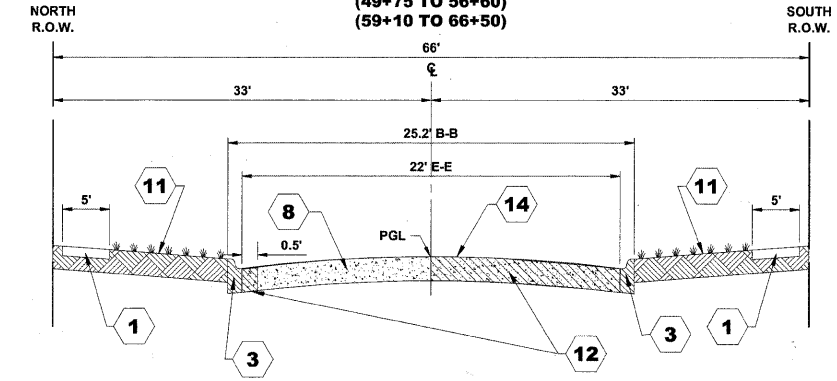
**PROPOSED TYPICAL CROSS SECTION**  
**GRAND BOULEVARD**  
 (37+80 TO 40+26)  
 (47+20 TO 49+75)  
 (56+60 TO 59+10)



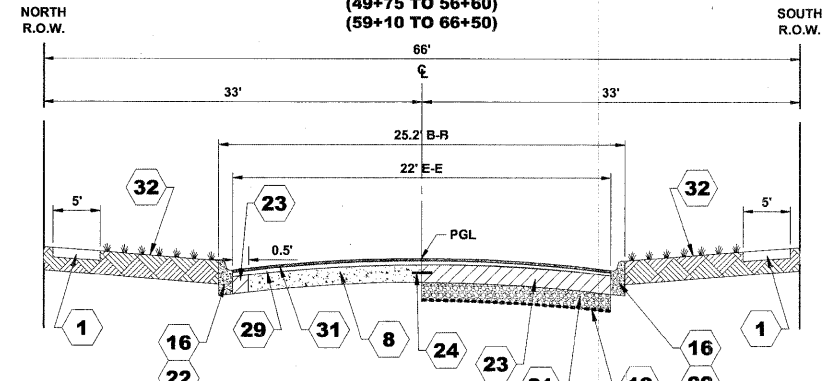
**EXISTING TYPICAL CROSS SECTION**  
**GRAND BOULEVARD**  
 (30+55 TO 37+80)  
 (40+26 TO 47+20)  
 (49+75 TO 56+60)  
 (59+10 TO 66+50)



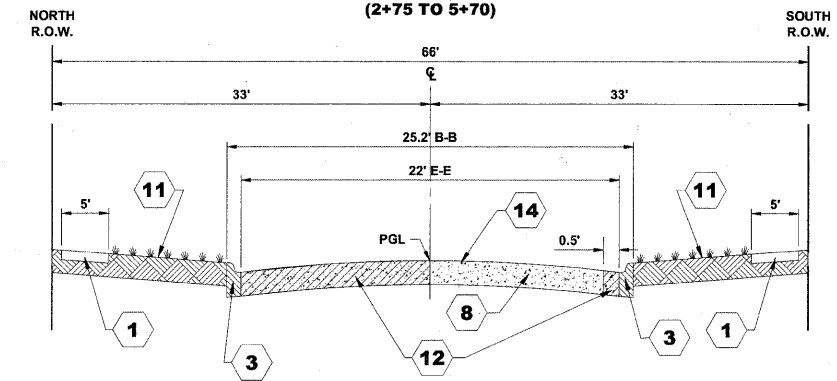
**PROPOSED TYPICAL CROSS SECTION**  
**GRAND BOULEVARD**  
 (30+55 TO 37+80)  
 (40+26 TO 47+20)  
 (49+75 TO 56+60)  
 (59+10 TO 66+50)



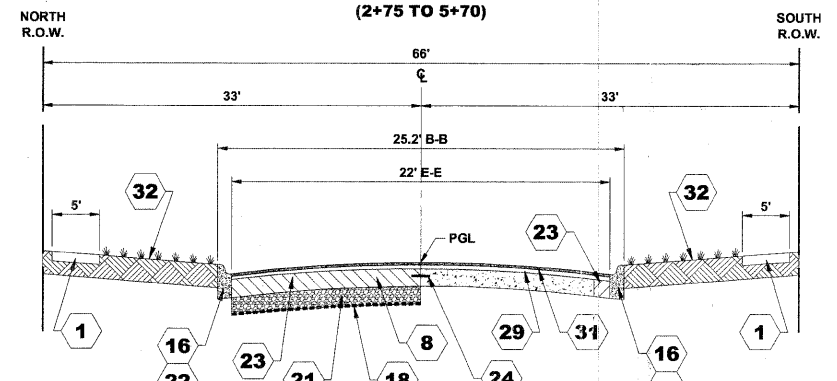
**EXISTING TYPICAL CROSS SECTION**  
**MONROE AVENUE**  
 (2+75 TO 5+70)



**PROPOSED TYPICAL CROSS SECTION**  
**MONROE AVENUE**  
 (2+75 TO 5+70)



**EXISTING TYPICAL CROSS SECTION**  
**MONROE AVENUE**  
 (5+70 TO 9+15)



**PROPOSED TYPICAL CROSS SECTION**  
**MONROE AVENUE**  
 (5+70 TO 9+15)

**TYPICAL CROSS SECTION LEGEND**

- | EXISTING |   | PROPOSED |  |
|----------|---|----------|--|
| 1        | PORTLAND CEMENT CONCRETE SIDEWALK   | 16       | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)   |
| 2        | SIDEWALK REMOVAL  | 17       | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED) (REVERSE PITCH)   |
| 3        | COMBINATION CURB AND GUTTER REMOVAL (TYPE B-6.12)   | 18       | GEOTECHNICAL FABRIC FOR GROUND STABILIZATION   |
| 4        | COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (ONLY CERTAIN DETERIORATED SECTIONS OF COMBINATION CONCRETE CURB AND GUTTER WILL BE REPLACED) | 19       | AGGREGATE SUBGRADE 12"   |
| 5        | COMBINATION CURB & GUTTER REMOVAL (TYPE B-6.18)   | 20       | AGGREGATE BASE COURSE, TYPE B 6"   |
| 6        | PORTLAND CEMENT CONCRETE BASE COURSE, 8" - 9"   | 21       | SUBBASE GRANULAR MATERIAL, TYPE B 4"   |
| 7        | PORTLAND CEMENT CONCRETE BASE COURSE, 7" - 8"   | 22       | SUBBASE GRANULAR MATERIAL, TYPE B 2"   |
| 8        | PORTLAND CEMENT CONCRETE PAVEMENT, 6" - 7"  | 23       | PORTLAND CEMENT CONCRETE BASE COURSE, 8"   |
| 9        | HOT-MIX ASPHALT BINDER & SURFACE COURSE, 4" - 7"  | 24       | TIE BARS 3/4" (EPOXY COATED, 1/2" DIA., 18" LONG DEFORMED TIE BARS @ 24" O.C.)   |
| 10       | HOT-MIX ASPHALT BINDER & SURFACE COURSE, 2" - 4"  | 25       | PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH  |
| 11       | GRASS PARKWAY   | 26       | HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 9"<br>-HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2"<br>-HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 7"<br>(INSTALLED IN 2 LIFTS) |
| 12       | PAVEMENT REMOVAL  | 27       | HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 6"<br>-HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2"<br>-HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"                           |
| 13       | HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH   | 28       | LEVELING BINDER (MACHINE METHOD), N50 (AS NECESSARY TO ESTABLISH PAVEMENT CROWN)   |
| 14       | CONCRETE SURFACE REMOVAL, VARIABLE DEPTH  | 29       | LEVELING BINDER (MACHINE METHOD), N50, 1"  |
| 15       | EARTH EXCAVATION  | 30       | POLYMERIZED LEVELING BINDER (MACHINE METHOD), N50, 3/4"  |
|          |   | 31       | HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2"   |
|          |   | 32       | TOPSOIL FURNISH AND PLACE, 4" SODDING  |
|          |   | 33       | TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS EROSION CONTROL BLANKET   |

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS @ Ndes
<b>GRAND BOULEVARD - HMA PAVEMENT (FULL DEPTH), 9"</b>	
HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 7"	4% @ 50 Gyr.
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm), 2"	4% @ 50 Gyr.
<b>MONROE AVENUE - HMA PAVEMENT (FULL DEPTH), 6"</b>	
HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 4"	4% @ 50 Gyr.
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm), 2"	4% @ 50 Gyr.
<b>GRAND BOULEVARD - RESURFACING</b>	
LEVELING BINDER (MACHINE METHOD), N50, (IL 9.5mm), (AS NECESSARY)	4% @ 50 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL - 4.75, N50, 3/4"	4% @ 50 Gyr.
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm), 2"	4% @ 50 Gyr.
<b>MONROE AVENUE - RESURFACING</b>	
LEVELING BINDER (MACHINE METHOD), N50, (IL 9.5mm), 1"	4% @ 50 Gyr.
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm), 2"	4% @ 50 Gyr.
<b>INCIDENTAL HOT-MIX ASPHALT SURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm)	4% @ 50 Gyr.
<b>TEMPORARY PAVEMENT</b>	
HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2"	4% @ 50 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/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.  
 HMA BINDER COURSE, IL 19.0 IS TO BE PLACED IN LIFTS NOT TO EXCEED 4" THICKNESS.

Drawing file: W:\Projects\12509232 - Grand Blvd. Design - Engineer\Typicals.dwg  
 Nov 21, 2011 - 10:11am  
 Hancock Engineering  
 913 Riverside Road  
 Washington, Illinois 62454-1706  
 Phone: 781-954-0200  
 Fax: 781-954-0212



USER NAME -	DESIGNED - WOP, JG	REVISED -
PLOT SCALE -	DRAWN - MIK, DMM	REVISED -
PLOT DATE -	CHECKED - WOP, JG	REVISED -
	DATE - 10-24-11	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TYPICAL CROSS SECTIONS**

SCALE: NOT TO SCALE SHEET NO. 1 OF 2 SHEETS STA. - TO STA. -

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 1694	07-00122-01-PV	COOK	86	6
FIELD BOOK NO. -JAERIALS/LL		CONTRACT NO. 63651		
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT M-9003(875)		

E.H.E. PROJECT NO. 125-09-23201