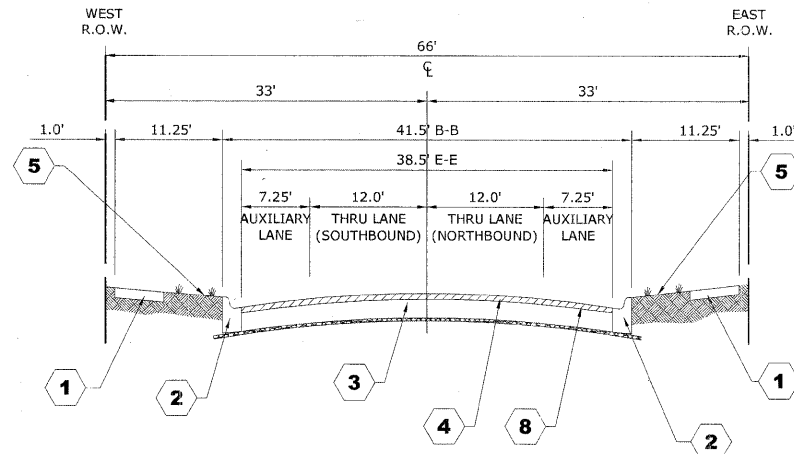


EXISTING TYPICAL CROSS SECTION
9th AVENUE
STATION 8+26 TO STATION 10+45 (NORTH)



EXISTING TYPICAL CROSS SECTION
9th AVENUE
STATION 6+12 TO STATION 7+15 (SOUTH)

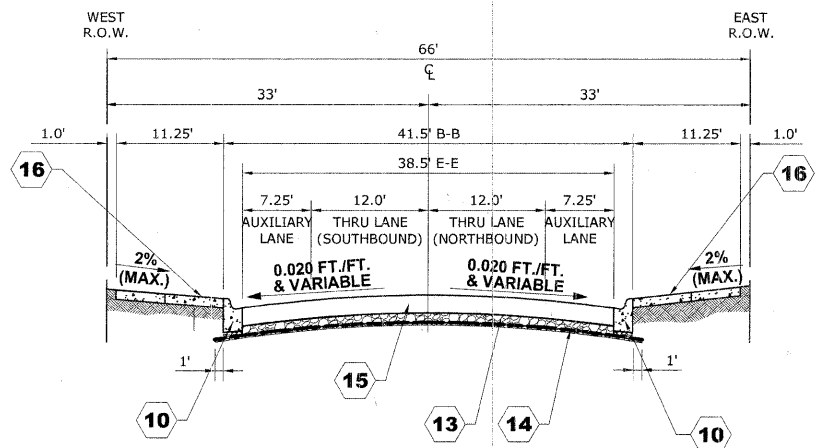
NOTE:

**POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH PGES OR EMBANKMENT AS DETERMINED BY THE GEOTECHNICAL ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

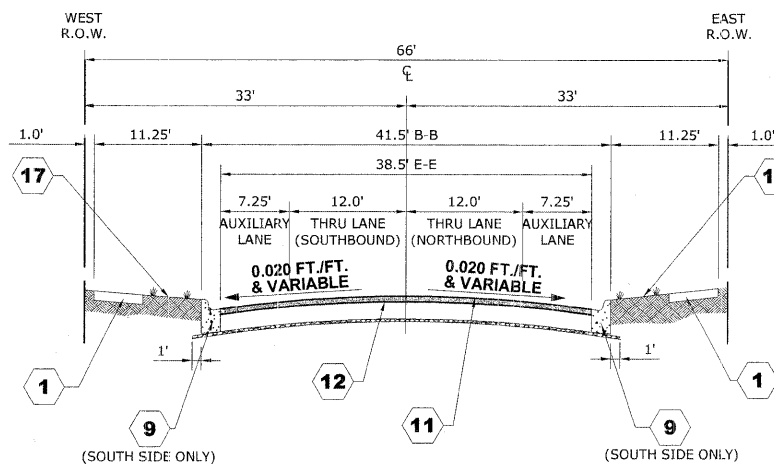
**POROUS GRANULAR EMBANKMENT
SUBGRADE LOCATIONS PER SOIL REPORT**

LOCATION	NORTH SIDE		SOUTH SIDE	
	WIDTH	DEPTH	WIDTH	DEPTH
ST. CHARLES ROAD STA. 3+50 TO STA. 58+40	21.5'	0.75'	21.5'	0.75'

LOCATION	WEST SIDE		EAST SIDE	
	WIDTH	DEPTH	WIDTH	DEPTH
9TH AVENUE (NORTH) STA. 8+26 TO STA. 10+45	19.25'	0.75'	19.25'	0.75'



PROPOSED TYPICAL CROSS SECTION
9th AVENUE
STATION 8+26 TO STATION 10+45 (NORTH)



PROPOSED TYPICAL CROSS SECTION
9th AVENUE
STATION 6+12 TO STATION 7+15 (SOUTH)

TYPICAL CROSS SECTION LEGEND

EXISTING CONDITIONS

- 1 PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- 2 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- 3 PORTLAND CEMENT CONCRETE BASE COURSE, APPROX. 13.5"
- 4 HOT MIX ASPHALT BINDER AND SURFACE COURSE, APPROX. 2"
- 5 GRASS PARKWAY
- 6 PORTLAND CEMENT CONCRETE PARKWAY
- 7 PAVEMENT REMOVAL, APPROX. 13.5"
- 8 HOT MIX ASPHALT BINDER AND SURFACE COURSE REMOVAL, APPROX. 2"

PROPOSED CONDITIONS

- 9 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)
- 10 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- 11 HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, (IL-9.5mm), 1 1/2"
- 12 LEVELING BINDER (MACHINE METHOD), N70, (IL-9.5mm) MINIMUM 3/4"
- 13 AGGREGATE BASE COURSE, TYPE B, 6"
- 14 BIAXIAL GEOGRID
- 15 PORTLAND CEMENT CONCRETE PAVEMENT, 10" (JOINTED)
- 16 PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- 17 TOPSOIL FURNISH AND PLACE, 4" SODDING

STRUCTURAL DESIGN TRAFFIC:	YEAR: 2020
PV: 10,925	SU: 287 MU: 287
ROAD/STREET CLASSIFICATION:	CLASS: II
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:	P: 50% S: 50% M: 50%
TRAFFIC FACTOR:	ACTUAL TF= 2.03 AC TYPE= N/A MINIMUM TF= NONE
PG GRADE:	BINDER= N/A SURFACE: N/A
SUBGRADE SUPPORT RATING:	SSR= POOR (STA. 3+50 TO 58+40)

Drawing file: W:\Projects\6505290 - St. Charles Rd\07_TYPICALS.dwg Dec 23, 2009 - 8:47am

HANCOCK ENGINEERING
Civil Engineers
Municipal Consultants
Established 1911

USER NAME	DESIGNED -- MK/SBC	REVISED --
PLOT SCALE	DRAWN -- MK/LEV	REVISED --
PLOT DATE	CHECKED -- SBC/JGMV	REVISED --
	DATE -- 11-30-09	REVISED -- IDOT REV. 12-22-09

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	8
CONTRACT NO. 63428			M-9003 (267)	