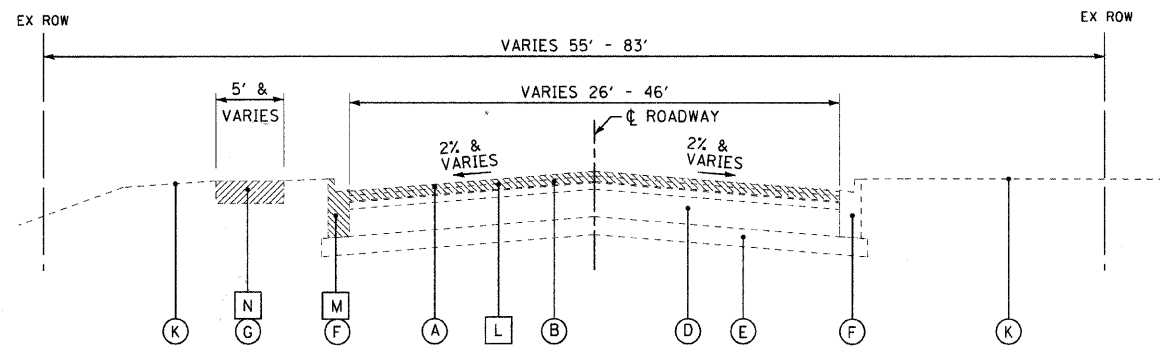
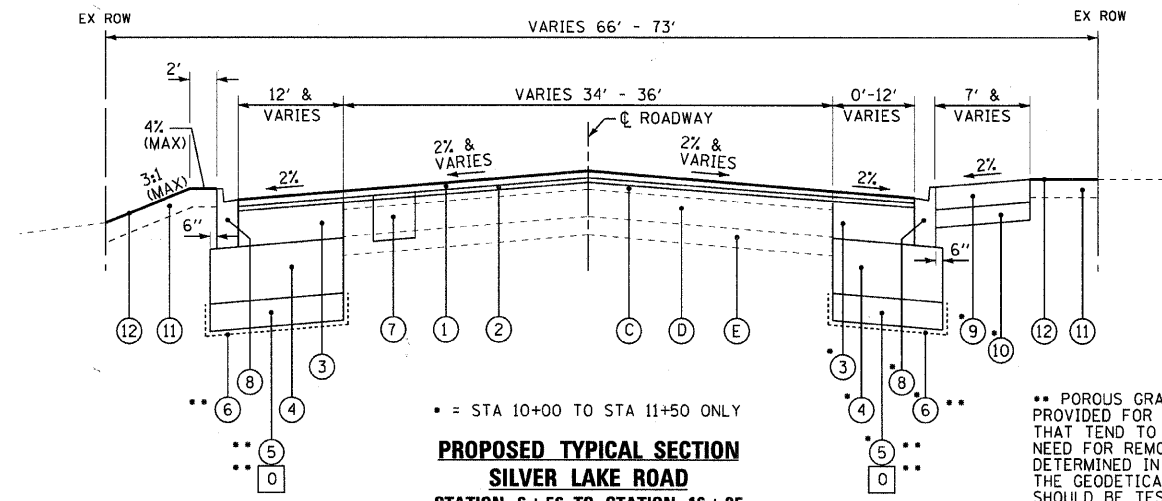


**EXISTING TYPICAL SECTION
SILVER LAKE ROAD
STATION 6+56 TO STATION 16+25
NOT TO SCALE**

* = STA 10+00 TO STA 11+50 ONLY



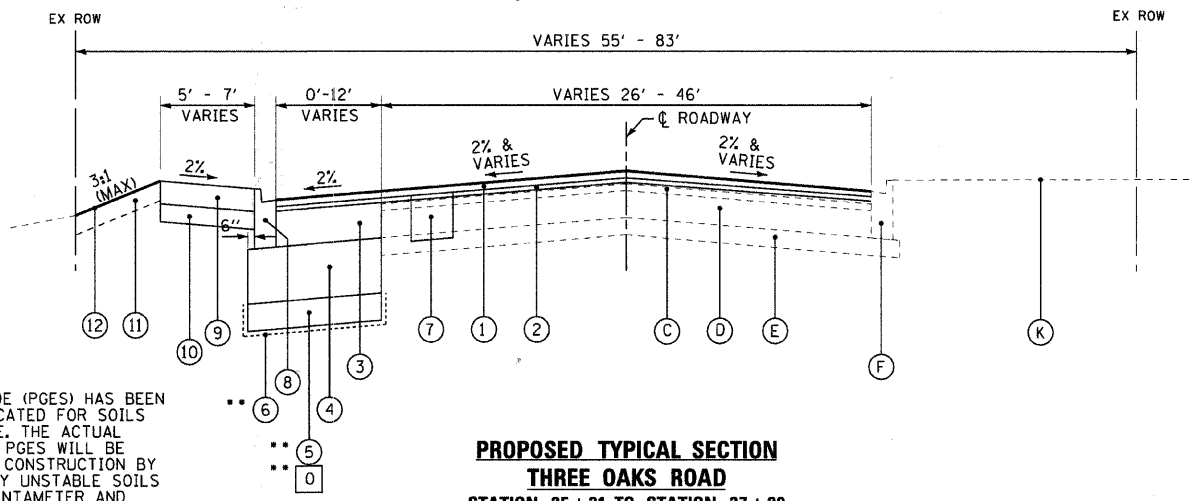
**EXISTING TYPICAL SECTION
THREE OAKS ROAD
STATION 25+31 TO STATION 37+20
NOT TO SCALE**



**PROPOSED TYPICAL SECTION
SILVER LAKE ROAD
STATION 6+56 TO STATION 16+25
NOT TO SCALE**

* = STA 10+00 TO STA 11+50 ONLY

•• 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 PENETRAMETER 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 NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.



**PROPOSED TYPICAL SECTION
THREE OAKS ROAD
STATION 25+31 TO STATION 37+20
NOT TO SCALE**

HOT-MIX ASPHALT MIXTURE REQUIREMENTS NOTES:

- CONTRACTOR SHALL MILL BEFORE PATCHING.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
PAVEMENT WIDENING AND RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); - 1 1/2"	4% @ 70 GYR
HOT-MIX ASPHALT BASE COURSE, 8" (HMA BINDER IL-19 mm) (TWO LIFTS)	4% @ 70 GYR
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50; 1"	4% @ 50 GYR
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19 mm); TYPE I - IV - 10-INCH	4% @ 70 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES 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.

EXISTING LEGEND

- (A) HOT-MIX ASPHALT SURFACE COURSE, 1"±
- (B) HOT-MIX ASPHALT SURFACE COURSE, 1 1/2"
- (C) HOT-MIX ASPHALT BINDER COURSE, 1 1/2"
- (D) HOT-MIX ASPHALT BASE COURSE, 7"
- (E) SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- (F) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (G) EXISTING SIDEWALK
- (H) AGGREGATE BASE COURSE
- (J) EXISTING SUB-GRADE
- (K) GROUND SURFACE
- (L) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- (M) COMBINATION CURB AND GUTTER REMOVAL
- (N) SIDEWALK REMOVAL
- (O) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL••
- (Hatched) ITEM TO BE REMOVED

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 - 1 1/2"
- (2) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 1"
- (3) HOT-MIX ASPHALT BASE COURSE, 8"
- (4) AGGREGATE SUBGRADE 12"
- (5) POROUS GRANULAR EMBANKMENT, SUBGRADE•• (AS DETERMINED BY THE ENGINEER)
- (6) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (7) CLASS D PATCHES, TYPE I - IV, 10 INCH
- (8) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (SPECIAL) (10 1/4" MIN FLAG DEPTH)
- (9) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- (10) AGGREGATE BASE COURSE, TYPE B 4"
- (11) TOPSOIL FURNISH AND PLACE, 4"
- (12) SODDING, SALT TOLERANT

STRUCTURAL DESIGN DATA

STREET	STRUCTURAL DESIGN TRAFFIC			STREET CLASS	TRAFFIC FACTOR	SSR	TEMP	STRAIN	AC	E AC	REQ'D HMA THICKNESS	MECHANISTIC PAVEMENT DESIGN
	PV	SU	MU									
SILVER LAKE ROAD	13,524	207	69	II	0.52	POOR	76°F	128	PG64-22	650	8.5 IN	1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 1" POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 8" HOT-MIX ASPHALT BASE COURSE 12" AGGREGATE SUBGRADE
THREE OAKS ROAD	9,310	143	47	II	0.50	POOR	76°F	130	PG64-22	650	8.0 IN	1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 1" POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 8" HOT-MIX ASPHALT BASE COURSE 12" AGGREGATE SUBGRADE

• F.A.U. 4051 THREE OAKS ROAD
• F.A.U. 4052 SILVER LAKE ROAD

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DESIGNED - MWP/DSH	REVISED - 01-04-10 PER IDOT
DRAWN - MAC	REVISED - 03-01-10 PER IDOT
CHECKED - RWL	REVISED -
DATE - 03-01-10	FILE - 060197-P2-typsec.sht

**VILLAGE OF CARY, ILLINOIS
THREE OAKS ROAD AND SILVER LAKE ROAD
ARRA INTERSECTION IMPROVEMENTS**

**TYPICAL SECTIONS, STRUCTURAL DESIGN DATA AND
HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

SCALE: STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	09-00058-00-CH	MCHENRY	53	8
C-91-511-10			CONTRACT NO. 63381	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT# ARA-9003(635)				