

**SUMMARY OF QUANTITIES**

CODE NO	ITEM	CONSTRUCTION CODE	
		UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)		32
20200100	EARTH EXCAVATION	CU YD	380
20300100	CHANNEL EXCAVATION	CU YD	345
20400800	FURNISHED EXCAVATION	CU YD	90
> 25000200	SEEDING, CLASS 2	ACRE	0.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45
> 25100115	MULCH, METHOD 2	ACRE	0.5
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100
28000300	TEMPORARY DITCH CHECKS	EACH	4
> 28100207	STONE RIPRAP, CLASS A4	TON	340
28200200	FILTER FABRIC	SQ YD	474
> 40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	560
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CY YD	40
50300225	CONCRETE STRUCTURES	CU YD	18.6
50300280	CONCRETE ENCASEMENT	CU YD	2.0
> 50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1,560
50800105	REINFORCEMENT BARS	POUND	2,480
50900205	STEEL RAILING, TYPE S1	FOOT	130
51201400	FURNISHING STEEL PILES HP10X42	FOOT	140
51202305	DRIVING PILES	FOOT	140
51203400	TEST PILE STEEL HP10X42	EACH	1
51500100	NAME PLATES	EACH	1
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	158
> 67100100	MOBILIZATION	L SUM	1
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4

> SEE SPECIAL PROVISIONS

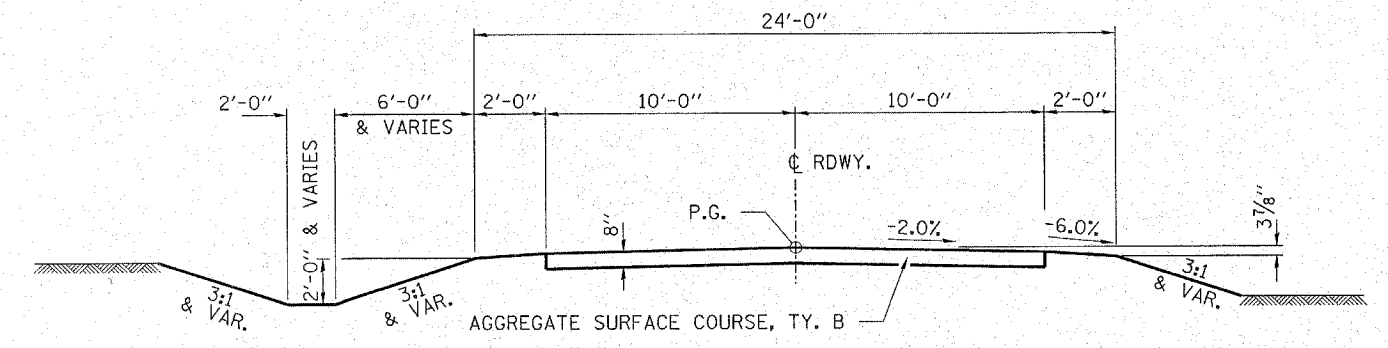
**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- THE LOCATIONS OF EXISTING ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS UNTIL THE OWNER, HIS AGENT, OR A PROFESSIONAL LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE REVISION NUMBER INDICATED FOR THE STANDARDS LISTED IN THE INDEX OF SHEETS SHALL BE USED IN THE AGG. SURF. CSE. CONSTRUCTION OF THIS SECTION.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES  
 AGGREGATE SURFACE CSE. 2.05 TON/CU YD  
 STONE RIPRAP, CL. A4 1.75 TON/CU YD 0.70 TON/SO YD
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.  
 ESTIMATED QUANTITY = 0.5 ACRES.
- TREES WITHIN THE RIGHT-OF-WAY WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER.

**EARTHWORK SCHEDULE**

LOCATION	EARTH EXCAVATION (CU YD)	SHRINKAGE FACTOR	PERCENT USED	AVAILABLE EXCAVATION (CU YD)	EMBANKMENT REQUIRED (CU YD)	EARTHWORK BALANCE (CU YD)
STA. 7+75 TO STA. 9+72.82	156	25%	100%	117	130	-13
STA. 9+72.82 TO STA. 10+39.18	-	25%	100%	-	-	-
STA. 10+39.18 TO STA. 13+25	221	25%	100%	166	316	-150
CHANNEL EXCAVATION	(345)	25%	70%	181		181
ENTRANCES					105	-105
TOTAL	377			464	551	-87
USE:	380					90

\* AVAILABLE EXCAVATION = EXC. x (1-SHRINKAGE FACTOR) x % USED (FURN. EXC.)



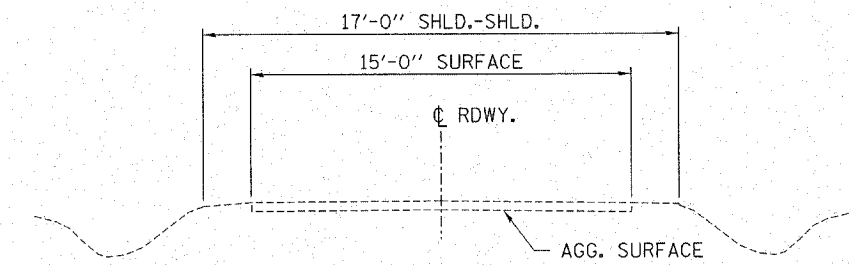
SUGGESTED CUT SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS

SUGGESTED FILL SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS

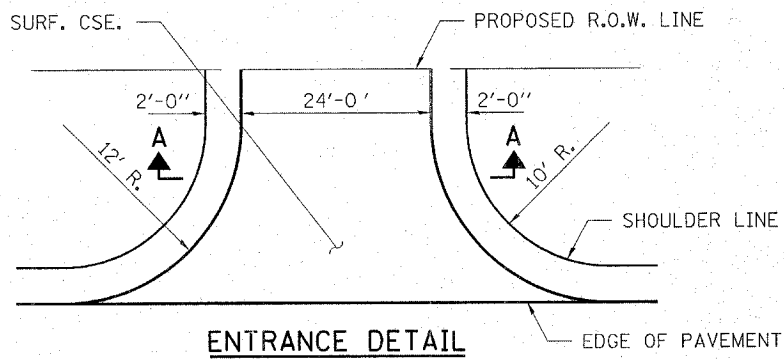
**TYPICAL CROSS SECTION**

STA. 8+25 TO 12+75

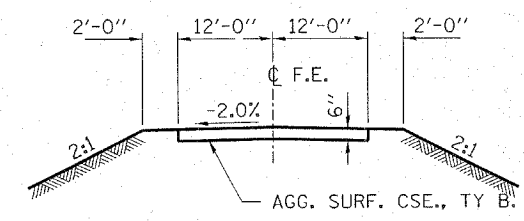
TRANSITION FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY IS TO BE CONSTRUCTED FROM STA. 7+75 TO 8+25 AND STA. 12+75 TO 13+25. SEE SHEET 8 FOR TRANSITION AT BRIDGE.



**EXISTING CROSS SECTION**



**ENTRANCE DETAIL**



**SECTION A-A**

**TREE REMOVAL (6-15 UNITS)**

LOCATION	UNIT
21' RT. STA. 9+76.9	14"
22' RT. STA. 10+26.1	6"
35' RT. STA. 9+82.0	12"
TOTAL	32"

**TEMPORARY DITCH CHECKS**

LOCATION	UNIT
23' RT. STA. 9+60	1
27' LT. STA. 9+50	1
23' RT. STA. 10+60	1
22' LT. STA. 10+50	1
TOTAL	4

**HAMPTON, LENZINI & RENWICK, INC.**  
 CIVIL & STRUCTURAL ENGINEERS

3085 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 (217) 546-3400

**ELGIN • SPRINGFIELD**

PROJECT NUMBER: 12-87-0017-1 DATE: 12/18/06  
 DESIGNED: J.W.F. CHECKED: S.W.M. DRAWN: D.T.M.

**SUMMARY OF QUANTITIES  
AND TYPICAL SECTIONS**

SECTION 06-19116-00-BR

RURAL ROAD DISTRICT  
 SHELBY COUNTY