

**SUMMARY OF QUANTITIES**

NUMBER	ITEM	UNIT	QUANTITY
20101000	TEMPORARY FENCE	FOOT	2,176
20200100	EARTH EXCAVATION	CU YD	1,308
20300100	CHANNEL EXCAVATION	CU YD	1532
20400800	FURNISHED EXCAVATION	CU YD	3,167
20700220	POROUS GRANULAR EMBANKMENT	CU YD	124
* 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	2.3
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	530
28000300	TEMPORARY DITCH CHECKS	EACH	7
28000400	PERIMETER EROSION BARRIER	FOOT	3,732
28000500	INLET AND PIPE PROTECTION	EACH	3
28100209	STONE RIPRAP, CLASS A5	TON	490
28200200	FILTER FABRIC	SQ YD	389
35100100	AGGREGATE BASE COURSE, TYPE A	TON	2,088
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	109
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1,605
40800040	INCIDENTAL BITUMINOUS SURFACING	TON	19
4200165	BRIDGE APPROACH PAVEMENT	SQ YD	200
48101200	AGGREGATE SHOULDERS, TYPE B	TON	672
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	292
50300160	NEOPRENE EXPANSION JOINT 4"	FOOT	60
50300225	CONCRETE STRUCTURES	CU YD	202.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	355.9
50300260	BRIDGE DECK GROOVING	SQ YD	1,384
50300300	PROTECTIVE COAT	SQ YD	1,541
* 50300320	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	10
* 50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1
50500505	STUD SHEAR CONNECTORS	EACH	4,530
* 50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	97,560
* 50901002	STEEL BRIDGE RAIL, SPECIAL	FOOT	842
51201600	FURNISHING STEEL PILES HP12X53	FOOT	976
51201800	FURNISHING STEEL PILES HP14X73	FOOT	2,160
51202700	DRIVING STEEL PILES	FOOT	3,136
51203600	TEST PILE STEEL HP12X53	EACH	2
51203800	TEST PILE STEEL HP14X73	EACH	4
51204315	CONCRETE ENCASEMENT	CU. YD.	64.6
51500100	NAME PLATES	EACH	1
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	38
542D1063	PIPE CULVERTS, CLASS D, TYPE 2 18"	FOOT	130
58700200	BRIDGE SEAT SEALER	SQ FT	166
63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	87.5
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH	2
67100100	MOBILIZATION	L SUM	1
* 70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
* 78201000	TERMINAL MARKER-DIRECT APPLIED	EACH	4
* X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	353
* X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	TON	1,059
* X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION NO. 1	EACH	1
* X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION NO. 2	EACH	1
* X5020503	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION NO. 3	EACH	1
* X5020504	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION NO. 4	EACH	1

\*SEE SPECIAL PROVISIONS

CONSTRUCTION TYPE CODE: X071-2A

**APPLICATION RATES USED IN QUANTITY CALCULATIONS**

STONE RIPRAP, CLASS A5	1.50 TON/CU YD
AGGREGATE BASE	2.05 TON/CU YD
AGGREGATE SURFACE AND AGGREGATE SHOULDERS	1.75 TON/CU YD
BITUMINOUS MATERIALS (PRIME COAT)	0.35 GAL/SQ YD
BITUMINOUS CONCRETE (BINDER & SURFACE COURSE)	112#/SQ YD-IN

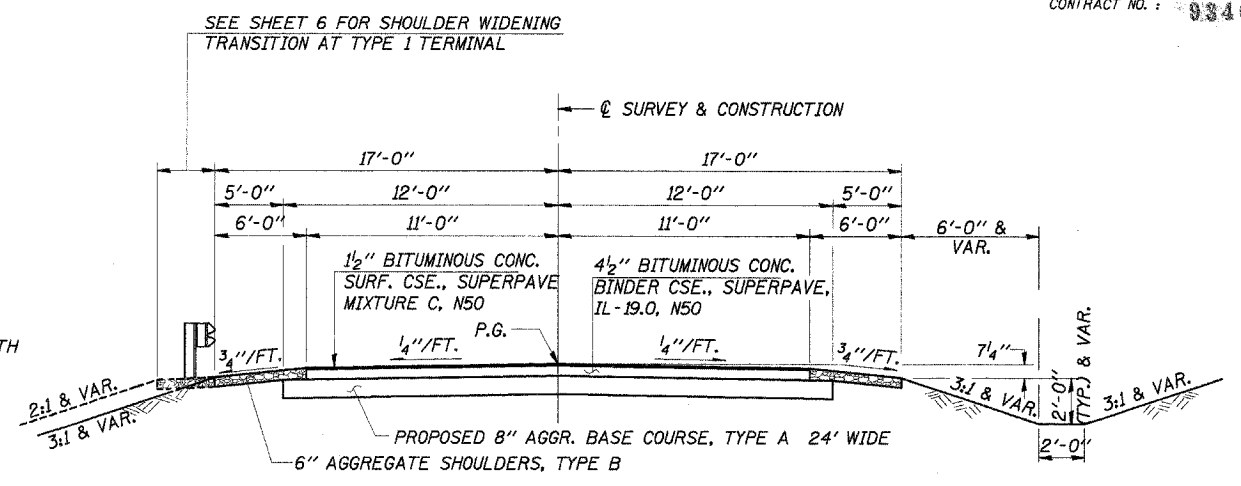
**GENERAL NOTES**

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

THE AREA TO BE SEEDDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY, AS DIRECTED BY THE ENGINEER.

SEEDING, CLASS 2 (SPECIAL) = 2.3 ACRE

PAVEMENT MARKING/STRIPING WILL BE DONE BY OTHERS.



TYPICAL FILL SECTION CONSTRUCT AS SHOWN ON STATION CROSS SECTIONS.

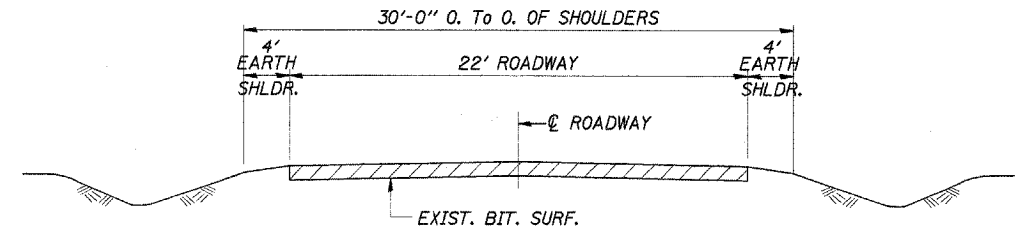
**TYPICAL PROPOSED ROADWAY CROSS SECTION**

TYPICAL CUT SECTION CONSTRUCT AS SHOWN ON STATION CROSS SECTIONS.

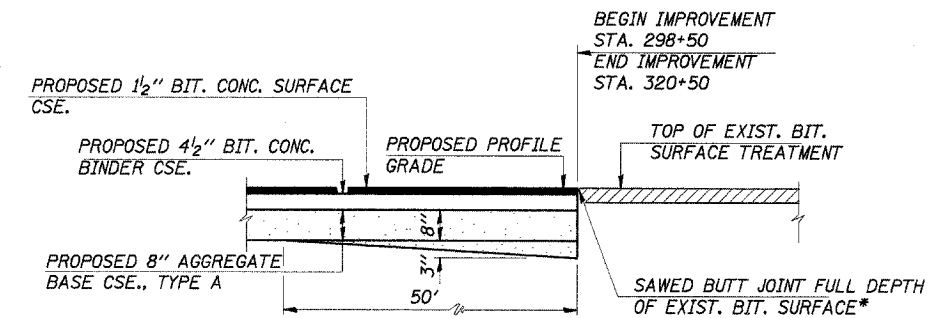
STA. 299+00 TO STA. 310+94.62  
STA. 315+73.37 TO STA. 320+00

TRANSITION FROM EXISTING ROADWAY TO PROPOSED ROADWAY FROM STA. 298+50 TO STA. 299+00 AND FROM STA. 320+00 TO 320+50.

SEE STANDARD 420401 FOR BRIDGE APPROACH PAVEMENT (NO CURB) FROM STA. 310+94.62 TO STA. 311+24.62 AND FROM STA. 315+43.37 TO STA. 315+73.37



**TYPICAL EXISTING ROADWAY CROSS SECTION**



**ELEVATION AT BEGINNING AND END OF IMPROVEMENT**

**JOINT DETAIL**

\* Cost included in "Earth Excavation"

BITUMINOUS MIXTURE REQUIREMENTS			
ITEM	ASPHALT GRADE	ALLOWABLE RAP	VOIDS
BINDER, SUPERPAVE IL-19.0, N50	P.G. 64-22	15%	4.0%
SURFACE, SUPERPAVE MIX C, N50	P.G. 64-22	15%	4.0%

**SUMMARY OF QUANTITIES, GENERAL NOTE AND TYPICAL CROSS SECTION**

C.H. 23  
SECTION 94-00087-00-BR  
HANCOCK COUNTY  
STATION 313+34

4440 ASH GROVE  
SPRINGFIELD, IL. 62711  
(217) 793-8600  
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**OZYURT AND STONE, INC.**  
CONSULTING ENGINEERS

JOB NO.: 0319  
FILE: SUMTYP.DG  
DATE: 10-12-0