

SUMMARY OF QUANTITIES - SEC. 09-00130-05-BR

CODE	DESCRIPTION	UNIT	QUANTITY
20200100	Earth Excavation	Cu. Yd.	107
2101615	Top Soil Furnish & Place, 4'	Sq. Yd.	1957
25000200	Seeding, Class 2	Acre	0.40
25000400	Nitrogen Fertilizer Nutrient	Pound	37
25000500	Phosphorus Fertilizer Nutrient	Pound	37
25000600	Potassium Fertilizer Nutrient	Pound	37
25100115	Mulch, Method 2	Acre	0.40
28000250	Temporary Erosion Control Seeding	Pound	40
28000305	Temporary Ditch Checks	Foot	80
28000400	Perimeter Erosion Barrier	Foot	140
35101100	Aggregate Base Course, Type A	Ton	310
40200800	Aggregate Surface Course, Type B	Ton	38
40600100	Bituminous Materials (Prime Coat)	Gal	60
40600300	Aggregate (Prime Coat)	Ton	3
40603080	Hot-Mix Asphalt, Binder Course IL-19.0 N50	Ton	172
40603310	Hot-Mix Asphalt, Surface Course "C" N50	Ton	136
48100100	Aggregate Shoulders, Type A	Ton	154
50100100	Removal of Existing Structures	Each	1
50200100	Structure Excavation	Cu. Yd.	225
50200300	Cofferdam Excavation	Cu. Yd.	265
50201101	Cofferdam (Type 2) (Location-1)	Each	1
50201102	Cofferdam (Type 2) (Location-2)	Each	1
50300225	Concrete Structures	Cu. Yd.	142.2
50300260	Bridge Deck Grooving	Sq. Yd.	365
50300265	Seal Coat Concrete	Cu. Yd.	115
50300300	Protective Coat	Sq. Yd.	432
5030305	Concrete Wearing Surface, 5'	Sq. Yd.	365
50400505	Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	3215
50800205	Reinforcement Bars, Epoxy Coated	Pound	21310
50901050	Steel Railing, Type SM	Foot	216
51201400	Furnishing Steel Piles HP10x42	Foot	890
51202305	Driving Piles	Foot	890
51203400	Test Pile Steel HP10x42	Each	4
51204650	Pile Shoes	Each	30
51500100	Name Plates	Each	1
59300100	Controlled Low-Strength Material	Cu. Yd.	105
63000003	Steel Plate Beam Guardrail, Type A, 9 foot posts	Foot	414
63100045	Traffic Barrier Terminal, Type 2	Each	2
63100087	Traffic Barrier Terminal, Type 6A	Each	2
63100167	Traffic Barrier Terminal, Type 1 (Special) Tangent	Each	2
63200310	Guardrail Removal	Foot	273
67100100	Mobilization	L. Sum	1
671010216	Traffic Control and Protection (Special)	L. Sum	1
78201000	Terminal Marker - Direct Applied	Each	8
XX004565	Grouted Riprap	Sq. Yd.	430
XX004566	Concrete Cut-Off Wall	Cu. Yd.	6.9
20013798	Construction Layout	L. Sum	1

See Special Provisions.

Specialty Items

MASS BALANCE - EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION C.Y.	SHRINKAGE FACTOR	% USED	ADJUSTED EXCAVATION C.Y.	EMBANKMENT REQUIRED C.Y.	EARTHWORK BALANCE C.Y.
Type 1 - LT/RT terminal flare	0	25%	100%	0	33	-33
STA 7+00 to STA 7+50	24	25%	100%	18	2	-17
STA 7+50 to STA 8+00	6	25%	100%	5	4	-16
STA 8+00 to STA 8+50	0	25%	100%	0	14	-30
Type 1 - RT terminal flare	0	25%	100%	0	9	-39
STA 8+50 to STA 9+00	0	25%	100%	0	25	-55
STA 8+84 RT field entrance	4	25%	100%	3	2	-54
STA 9+00 to STA 9+45	0	25%	100%	0	25	-79
BRIDGE REMOVAL **	881	25%	50%	330	0	251
STA 10+55 to STA 11+00	5	25%	100%	4	21	234
STA 11+00 RT field entrance	7	25%	100%	5	5	234
Type 1 - RT terminal flare	0	25%	100%	0	33	201
STA 11+00 to STA 11+50	9	25%	100%	7	21	187
STA 11+50 to STA 12+00	6	25%	100%	5	15	177
STA 12+00 to STA 12+50	17	25%	100%	13	2	188
STA 12+50 to STA 13+00	29	25%	100%	22	1	209
Type 1 - LT/RT terminal flare	0	25%	100%	0	33	176

No Furnished Excavation necessary.

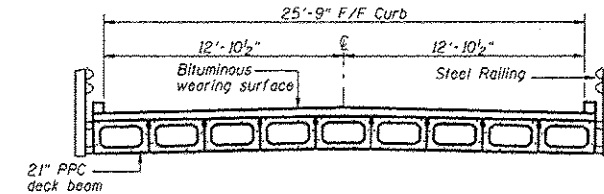
** = Paid for as Removal of Existing Structures. If suitable, soil can be used for Furnished Excavation.

MIXTURE REQUIREMENTS TABLE

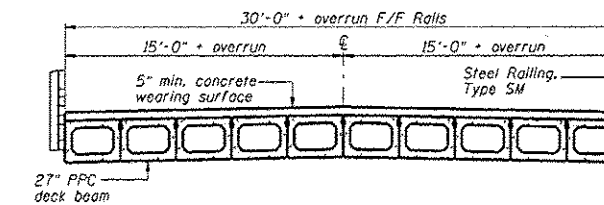
MIXTURE	SURFACE	BINDER
PG	PG 64-22	PG 64-22
RAP	15%	25%
Design Voids	4.0% @ N _{des} = 50	4.0% @ N _{des} = 50
Mix Composition	IL 9.5	IL 19.0
Friction Aggregate	Mix C	N.A.

BITUMINOUS MATERIALS (PRIME COAT) RATES

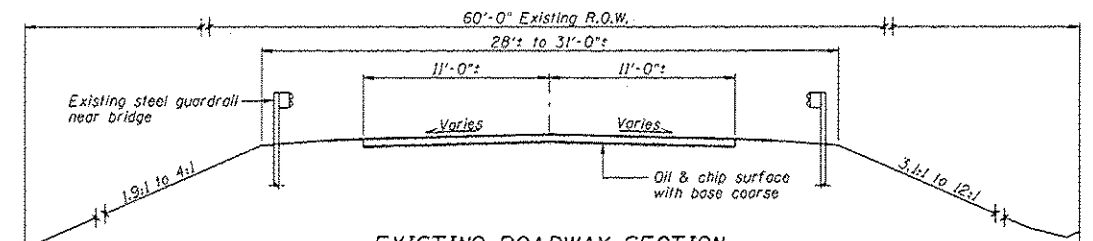
SURFACE TYPE	ESTIMATED TRUCK APPLICATION RATE	RESIDUAL RATE
Milled (HMA or PCC)	0.10 gal/sy	0.05 gal/sy
Existing Pavement	0.05 gal/sy	0.025 gal/sy
Fog Coat (between lifts)	0.05 gal/sy	0.025 gal/sy



EXISTING SUPERSTRUCTURE SECTION

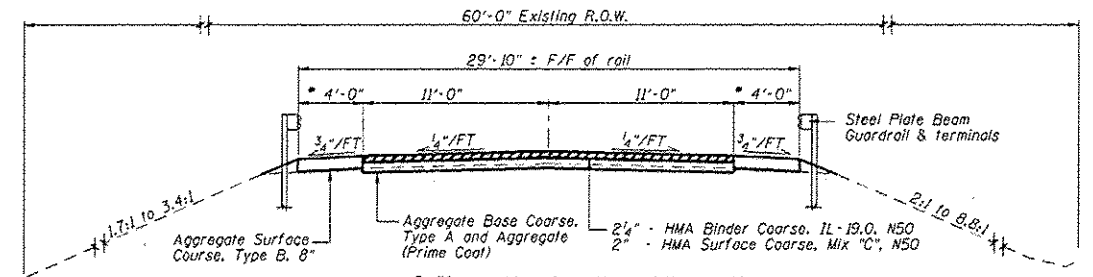


PROPOSED SUPERSTRUCTURE SECTION



EXISTING ROADWAY SECTION

Sta. 7+00 to Sta. 9+45
Sta. 10+55 to Sta. 13+00



PROPOSED ROADWAY SECTION

Sta. 7+00 to Sta. 9+45.27
Sta. 10+54.73 to Sta. 13+00

The Engineer can determine the depth of Aggregate Base Course Type A needed depending on the depth to and the condition of the existing pavement

DESIGNER	DATE	REVISION	BY	APPROVED
DSGNK, J. Hoffmann	5/13	Updated pay item number.	KH	JW
DR, K.J. Hoffmann				
CHK, J.R. Wolf				
APVD, J.A. Frauenhoffer				



FRAUENHOFFER & ASSOCIATES
A division of Engineering Resource Associates, Inc.
Consulting Engineers, Scientists, & Surveyors

3002 CROSSING COURT
CHAMPAIGN, IL 61822
PHONE (217) 351-6268
FAX (217) 355-1902

SUMMARY OF QUANTITIES & TYPICAL SECTIONS

FAS 452 (CH2) OVER LASWELL BRANCH OF PUT CREEK
SEC 08-00130-05-BR
FULTON COUNTY

SHEET	2
DWG NO.	9029500.dgn
DATE	DEC 2012
PROJ NO.	9029

ROUTE NO.	SECTION	COUNTY	DATE	POST
FAS452	*	FULTON	26	3
FED. ROAD DIST. NO. 7		STATE PROJECT		

* 09-00130-05-BR

SCHEDULE OF QUANTITIES - SEC. 09-00130-05-BR

35100100			
AGGREGATE BASE COURSE, TYPE A			
LOCATION			TONS
STA. 6+85.00 TO STA. 9+45.27			185
STA. 10+54.73 TO STA. 13+45.00			125
		TOTAL	310

40603310			
HMA SC *C* N50			
LOCATION			TONS
STA. 6+85.00 TO STA. 9+45.27			68
STA. 10+54.73 TO STA. 13+45.00			68
		TOTAL	136

63100167			
TRAFFIC BARRIER TERMINAL, TYPE I (SPECIAL) TANGENT			
LOCATION			EACH
STA. 7+23.69 TO STA. 7+73.69 LT			1
STA. 7+23.69 TO STA. 7+73.69 RT			1
STA. 8+11.19 TO STA. 8+61.19 RT			1
STA. 11+18.72 TO STA. 11+68.72 RT			1
STA. 12+56.22 TO STA. 13+06.22 RT			1
STA. 12+56.22 TO STA. 13+06.22 LT			1
		TOTAL	6

40200800			
AGGREGATE SURFACE COURSE, TYPE B			
LOCATION			TONS
STA. 8+84.00 RT (Field Ent.)			19
STA. 11+00.00 RT (Field Ent.)			19
		TOTAL	38

48100100			
AGGREGATE SHOULDERS, TYPE A			
LOCATION			TONS
STA. 6+85.00 TO STA. 9+45.27 LT/RT			77
STA. 10+54.73 TO STA. 13+45.00 LT/RT			77
		TOTAL	154

63200310			
GUARDRAIL REMOVAL			
LOCATION			FOOT
STA. 9+10.00 TO STA. 9+82.00 LT			72
STA. 9+04.00 TO STA. 9+66.00 RT			62
STA. 10+34.00 TO STA. 11+12.00 LT			78
STA. 10+18.00 TO STA. 10+79.00 RT			61
		TOTAL	273

40600100			
BITUMINOUS MATERIALS (PRIME COAT)			
LOCATION			GAL.
STA. 6+85.00 TO STA. 9+45.27			30
STA. 10+54.73 TO STA. 13+45.00			30
		TOTAL	60

63100045			
TRAFFIC BARRIER TERMINAL, TYPE 2			
LOCATION			EACH
STA. 8+97.78 TO RT - at end of 6A special			1
STA. 10+84.81 TO RT - at end of 6A special			1
		TOTAL	2

40600300			
AGGREGATE (PRIME COAT)			
LOCATION			TONS
STA. 6+85.00 TO STA. 9+45.27			1.5
STA. 10+54.73 TO STA. 13+45.00			1.5
		TOTAL	3

63000003			
STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS			
LOCATION			FOOT
STA. 7+73.69 TO STA. 9+11.19 LT			138
STA. 7+73.69 TO STA. 8+11.19 RT			38
STA. 11+06.22 TO STA. 12+56.22 LT			150
STA. 11+68.72 TO STA. 12+56.22 RT			88
		TOTAL	414

40603080			
HMA BC IL-19.0 N50			
LOCATION			TONS
STA. 6+85.00 TO STA. 9+45.27			86
STA. 10+54.73 TO STA. 13+45.00			86
		TOTAL	172

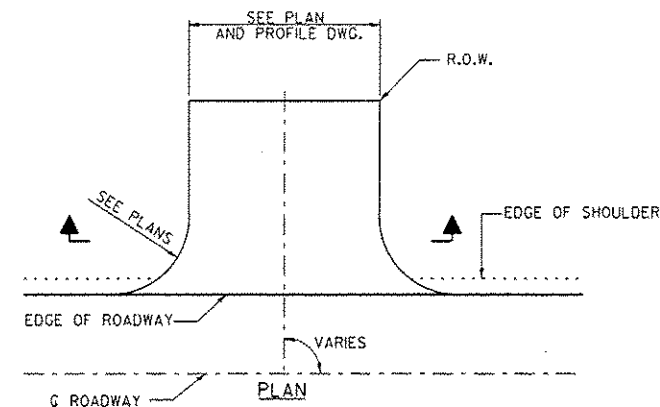
63100087			
TRAFFIC BARRIER TERMINAL, TYPE 6A			
LOCATION			EACH
STA. 9+11.19 TO STA. 9+54.94 LT			1
STA. 10+62.47 TO STA. 11+06.22 LT			1
		TOTAL	2

X6310088			
TRAFFIC BARRIER TERMINAL, TYPE 6A (SPECIAL)			
LOCATION			EACH
STA. 8+97.78 TO STA. 9+37.53 RT			1
STA. 10+45.06 TO STA. 10+84.81 RT			1
		TOTAL	2

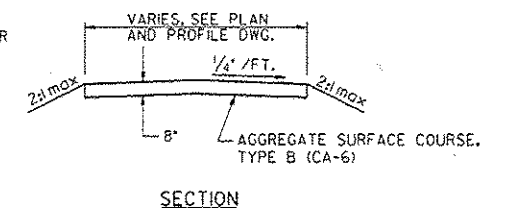
UTILITIES
 Call J.U.L.I.E. 1-800-892-0123
 The Contractor shall coordinate the relocation of any utilities with the utility company where they conflict with the proposed improvements.

GENERAL NOTES

- The locations of Existing utilities as shown on the plan are for information only, and are not guaranteed. It shall be the Contractor's responsibility to ascertain their exact location from the utility companies and by field inspection.
- All steel posts in guardrails or transitions shall be 9 foot long.
- The thickness of the wood block spacers for the first post behind the abutments at the southeast and northwest approaches shall be altered to avoid conflict between the steel post and the abutment. The cost shall be included in the cost of Traffic Barrier Terminal, Type 6A or Traffic Barrier Terminal, Type 6A (Special).
- The ends of all guardrail terminals, Type I or Type 2 shall receive a Terminal Marker.



ENTRANCE DETAIL
 FIELD ENT 1 = STA. 8+84, RT
 FIELD ENT 2 = STA. 11+00, RT



ENTRANCE DETAIL
 FIELD ENT 1 = STA. 8+84, RT
 FIELD ENT 2 = STA. 11+00, RT

DSGN	K.J. Hoffmann	5/13	Updated pay item number.	KH	JW
DR	K.J. Hoffmann				
CHK	J.R. Wolf				
APVD	J.A. Fraenhoffer	NO.	DATE	REVISION	BY

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SCHEDULE OF QUANTITIES & GENERAL NOTES
 FAS 452 (CH2) OVER LASWELL BRANCH OF PUT CREEK
 SEC 08-00130-05-BR
 FULTON COUNTY

SHEET	3
DWG NO.	9029SOO.dgn
DATE	DEC 2012
PROJ NO.	9029