

ROUTE NO.	SECTION	COUNTY	DIST.	SHEET NO.
FAS452		FULTON	26	2
FED. ROAD DIST. NO. 1		ILLINOIS	FED. ROAD PROJECT	

09-00130-05-BR

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	1140
35100100	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
** X5030305	Concrete Wearing Surface, 5'	Sq. Yd.	365
** 50400505	Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	3215
50800205	Reinforcement Bars, Epoxy Coated	Pound	2130
▲ ** 50901050	Steel Rolling, 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
▲ 63000001	Steel Plate Beam Guardrail, Type A	Foot	414
▲ 63100045	Traffic Barrier Terminal, Type 2	Each	2
▲ 63100087	Traffic Barrier Terminal, Type 6A	Each	2
▲ ** X6310088	Traffic Barrier Terminal, Type 6A (Special)	Each	2
▲ 63100167	Traffic Barrier Terminal, Type 1 (Special) Tangent	Each	6
63200310	Guardrail Removal	Foot	273
** 67100100	Mobilization	L. Sum	1
** X7010216	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 I - LT/RT terminal flares	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 I - RT terminal flares	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 I - 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 I - LT/RT terminal flare	0	25%	100%	0	33	176

No Furnished Excavation necessary.

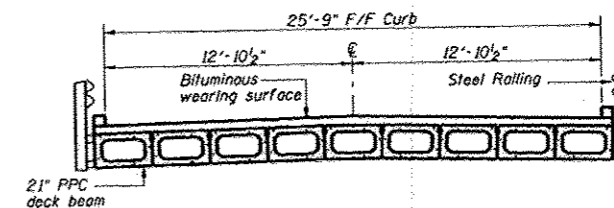
** = Paid for as Removal of Existing Structures, if suitable, soil can be used for Furnished Excavation.

MIXTURE REQUIREMENTS TABLE

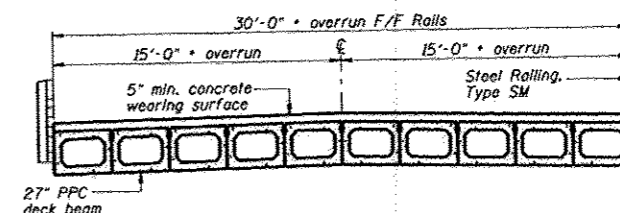
MIXTURE	SURFACE	BINDER
PG	PG 64-22	PG 64-22
RAP	15%	25%
Design Voids	4.0% @ Ndes = 50	4.0% @ Ndes = 50
Mix Composition	IL 9.5	IL 19.0
Friction Aggregate	Mix C	N.A.

BITUMINOUS MATERIALS (PRIME COAT) RATES

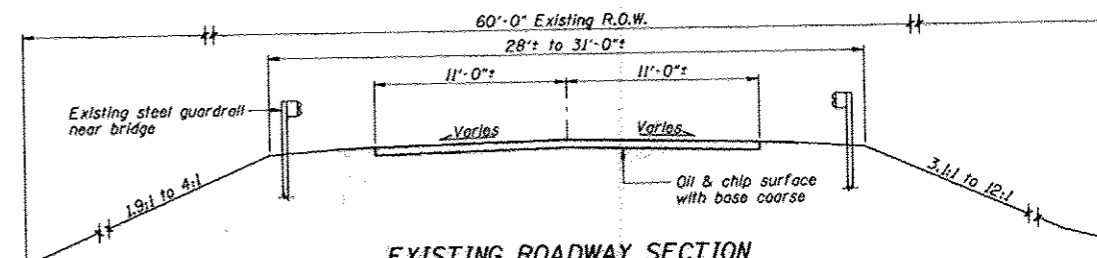
SURFACE TYPE	ESTIMATED TRUCK APPLICATION RATE	RESIDUAL RATE
Milled (HMA or PCC)	0.10 gal/sy	0.05 gal/sy
Existing Pavement	0.05 gal/sy	0.025 gal/sy
Fog Coat (between lifts)	0.05 gal/sy	0.025 gal/sy



EXISTING SUPERSTRUCTURE SECTION

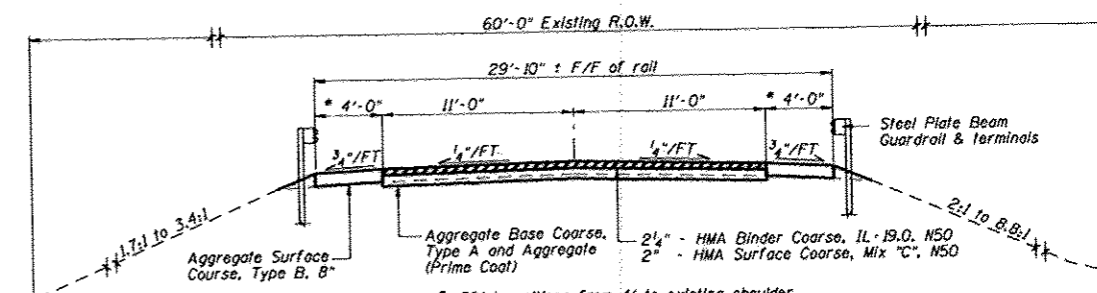


PROPOSED SUPERSTRUCTURE SECTION



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

DESIGN	J. Hoffmann				
DR	K. J. Hoffmann				
CHK	J. R. Wolf				
APVD	J. A. Fraunhoffer	NO.	DATE	REVISION	BY



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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