

01-00093-00-RS

RS-221(104)

CONTRACT 89315

SUMMARY OF QUANTITIES
CONSTRUCTION TYPE CODE: 1000

ITEM	CODE	UNIT	QUANTITY
FURNISHED EXCAVATION	20400800	CU YD	1374
SEEDING, CLASS 2 (SPECIAL)	25001000	ACRE	0.9
EROSION CONTROL BLANKET	25100630	SQ YD	4400
AGGREGATE SURFACE COURSE, TYPE B	40200800	TON	400
BITUMINOUS MATERIALS (PRIME COAT)	40600100	GALLON	3600
TEMPORARY RAMP	40600990	SQ YD	10
INCIDENTAL BITUMINOUS SURFACING	40800040	TON	540
BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)	44000030	SQ YD	489
AGGREGATE SHOULDERS, TYPE B	48101200	TON	3000
PRECAST REINFORCED CONCRETE FLARED END SECTION 12"	54213657	EACH	1
STORM SEWER CLASS A, TYPE 1 12"	550A0050	FOOT	20
INLETS TO BE RECONSTRUCTED	60262700	EACH	1
FRAME AND LIDS ADJUSTMENT	60300105	EACH	4
TRAFFIC CONTROL AND PROTECTION	70101700	L.S.	1
SHORT-TERM PAVEMENT MARKING	70300100	FOOT	4000
WORK ZONE PAVEMENT MARKING REMOVAL	70301000	SQ FT	350
PAINT PAVEMENT MARKING-LINE 4"	78001110	FOOT	36275
BITUMINOUS BASE COURSE, SUPERPAVE, VARIABLE DEPT	X3551100	SQ YD	510
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX D, N30	X4066422	TON	2022
BITUMINOUS CONCRETE BINDER COURSE SUPERPAVE, IL19.0L (LOW ESAL)	X4066630	TON	4040
LEVELING BINDER (MACHINE METHOD), SUPERPAVE, N30	X4066760	TON	2914

FRAME AND LID ADJUSTMENT SCHEDULE

LOCATION	TYPE	QUANTITY
STA 1+49 13' RT	MH	1 EACH
STA 4+77 14' RT	WV	1 EACH
STA 5+03 15' RT	MH	1 EACH
STA 8+57 11.5' RT	MH	1 EACH
TOTAL=		4 EACH

GENERAL NOTES:

The roadway was originally constructed under FAS Section 41G. The roadway was reconstructed under section 01-00093-00-DR. Cross sections are in section 41G except those sections modified under Section 01-00093-00-DR.

Seeding shall be of all areas Disturbed by construction.

BITUMINOUS MIXTURE REQUIREMENTS

The following mixture requirements are applicable for this project.

Mixture Uses:	Bituminous Base Course	Bituminous Surface Course / Incidentals Bituminous Surfacing	Bituminous Concrete Binder Course	Leveling Binder (Machine Method)
ADPS:	PG 58-22	PG 58-22	PG 58-22	PG 58-22
RAP % (Max)**	25%	20%	30%	30%
Design Air Voids:	4.5% @ N _{max} =30	3.0% @ N _{max} =30	4.0% @ N _{max} =50	3.0% @ N _{max} =30
Mixture Composition (Gradation Method)	IL 19.0	IL 9.5L (Low ESAL)	IL 19.0L (Low ESAL)	IL 9.5L (Low ESAL)
Fraction Aggregate:	N/A	Mixture 2	N/A	N/A

** If > 15% RAP is used, the contractor may be required to use a softer grade of asphalt as determined by the Materials Engineer.

AGGREGATE SHOULDERS SCHEDULE

STA-STA	A. SH	TB
0-98+00 RT	1500	
0-98+00 LT	1500	
TOTAL	3000	

EROSION CONTROL BLANKET & SEEDING SCHEDULE

STA-STA	E.C. BL.	SEED CL 2 SP
0-98+00 RT	2200	0.45
0-98+00 LT	2200	0.45
TOTAL	4400	0.9

PAVEMENT DESIGN

PAVEMENT:
DESIGN PERIOD: 20 YEARS
STRUCTURAL DESIGN TRAFFIC: YEAR 2014
PV= 2206, SU= 46, MU= 23
ROAD CLASSIFICATION: CLASS II
PER CENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE: 50
P=97.0, S= 2.0, M= 1.0
TRAFFIC FACTOR= 0.116
MINIMUM SOIL SUPPORT: IBR= 3
STRUCTURAL NUMBER: Dt= 2.95
PAVEMENT STRUCTURE:
SURFACE TYPE: BIT., MIN STRENGTH 1700, A1= 0.40
BASE TYPE: BIT., MIN STRENGTH 1500, A2=0.30
SUBBASE TYPE: AGGREGATE, MIN STRENGTH IBR=30, A3=0.10