

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL
20200100	EARTH EXCAVATION	CU YD	28
20300100	CHANNEL EXCAVATION	CU YD	947
20400800	FURNISHED EXCAVATION	CU YD	222
• 20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	33
• 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.2
28000315	AGGREGATE DITCH CHECKS	TON	24
28100107	STONE RIPRAP, CLASS A4	SQ YD	1,417
28200200	FILTER FABRIC	SQ YD	1,417
35101400	AGGREGATE BASE COURSE, TYPE B	TON	4
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	77
48101200	AGGREGATE SHOULDERS, TYPE B	TON	107
• 50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	39
• 50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	4,050
Δ 50901050	STEEL RAILING, TYPE SM	FOOT	303
51500100	NAME PLATES	EACH	1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	450
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	480
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	20
• 60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	80
Δ 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	400
67100100	MOBILIZATION	L SUM	1
• 70101700	TRAFFIC CONTROL AND PROTECTION	LSUM	1
Δ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	40
Δ • 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
• X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	51
• Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	36

• SPECIAL PROVISION CONSTRUCTION TYPE CODE: X081-2A
 Δ SPECIALTY ITEMS

GENERAL NOTES

- WHERE PERMANENT SURVEY MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE DISTURBED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THE LOCATION.
- THE ENGINEER SHALL NOT GUARANTEE THE WORK OF ANY CONTRACTOR OR SUBCONTRACTOR, SHALL HAVE NO SUPERVISION OF THE PERSONS DOING THE WORK, SHALL HAVE NO CHARGE OF THE WORK, SHALL NOT BE RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE JOB SITE OR HAVE ANY CONTROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENT, SCAFFOLDING, SUPPORT, FORMS OR OTHER WORK AIDS.
- THE FOLLOWING RATES WERE USED IN CALCULATING QUANTITIES FOR THIS PROJECT:

RIPRAP:	1.5 TONS/CU YD
AGGREGATE SHOULDERS:	2.05 TONS/CU YD
AGGREGATE BASE COURSE:	2.05 TONS/CU YD
BITUMINOUS MATERIALS (PRIME COAT):	0.375 GAL/SY
BITUMINOUS MATERIALS (COVER & SEAL COAT):	0.35 GAL/SY
COVER & SEAL COAT AGGREGATE:	23 LB/SY
- CONTRACTOR SHALL FOLLOW CONSTRUCTION REQUIREMENTS OF SECTION 611 WHEN EXISTING FIELD TILE IS ENCOUNTERED UNLESS DIRECTED OTHERWISE BY ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES FOR THE WORK ITEMS SPECIFIED.
- THE CONTRACTOR SHALL REPLACE ALL STREET SIGNS REMOVED DURING CONSTRUCTION AS NEAR AS POSSIBLE TO THEIR ORIGINAL LOCATION OR AS DETERMINED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES FOR THE WORK ITEMS SPECIFIED.

EARTH WORK SCHEDULE

LOCATION	1	2	3	4
	20200100 EARTH EXCAVATION	*EXCAVATION TO BE USED IN EMBANKMENT (ADJUSTED FOR SHRINKAGE) (COL 1 x 0.75) (CU. YD.)	*EMBANKMENT (FILL)	20400800 FURNISHED EXCAVATION
142+20 TO 143+40	14	11	122	111
145+00 TO 146+20	14	11	122	111
TOTAL	28	22	244	222
EARTH EXCAVATION SHRINKAGE FACTOR = 25%				
ITEMS MARKED WITH AN ASTERISK (*) ARE FOR INFORMATIONAL PURPOSES ONLY				

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
ITEM	AGGREGATE COMPOSITION	ASPHALT GRADE	DESIGN AIR VOIDS
HMA SURFACE CSE	IL-9.5 OR 12.5 MIX "C"	PG 64-22	4.0% @ N50

HOT-MIX ASPHALT QUANTITIES BASED ON 112 LB./SQ. YD./INCH