BILL OF MATERIALS - OAK

ITEM	UNIT	TOTAL
EARTH EXCAVATION	CU YD	618
TRENCH BACKFILL	CU YD	10.8
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	353
GRADING AND SHAPING DITCHES	FOOT	90
TEMPORARY DITCH CHECKS	FOOT	16
INLET AND PIPE PROTECTION	EACH	2
STONE RIPRAP, CLASS A3	SQ YD	6
FILTER FABRIC	SQ YD	6
AGGREGATE BASE COURSE, TYPE A 6"	SQ YD	1,196
AGGREGATE BASE COURSE, TYPE A 12"	SQ YD	83
* LEVELING BINDER (MACHINE METHOD), IL-9.5 FG, N50	TON	29.1
HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	71
HOT-MIX ASPHALT BINDER COURSE, IL 19.0 FG, N50	TON	146.1
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	516.5
PAVEMENT REMOVAL	SQ YD	25
* CLASS D PATCHES, TYPE I, 6 INCH	SQ YD	3
* CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	7
* CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	23
* CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	586
AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	1,059
AGGREGATE WEDGE SHOULDER, TYPE B	TON	3.5
PIPE CULVERT REMOVAL	FOOT	299
PIPE CULVERTS, CLASS C, TYPE 1 8"	FOOT	298
CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	3
SHOULDER REMOVAL AND REPLACEMENT 5"	FOOT	68
PIPE UNDERDRAINS 4" (MODIFIED)	FOOT	3,260
PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	310
CATCH BASINS, TYPE C, WITH MEDIAN INLET (604101)	EACH	2
REMOVING CATCH BASINS	EACH	2
SIGN PANEL - TYPE 1	SQ FT	17
WOOD SIGN SUPPORT	FOOT	44
REMOVE AND REINSTALL PARKING BLOCKS	EACH	34
EARTH EXCAVATION (SPECIAL)	FOOT	75
AGGREGATE SHOULDERS (SPECIAL)	TON	455.9
REMOVE SIGN COMPLETE	EACH	3
BITUMINOUS MATERIALS (PRIME COAT)	POUND	4,423

BILL OF MATERIALS - OSAGE

ITEM	UNIT	TOTAL
EARTH EXCAVATION	CU YD	460
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	115
GRADING AND SHAPING DITCHES	FOOT	15
TEMPORARY DITCH CHECKS	FOOT	8
STONE RIPRAP, CLASS A3	SQ YD	3
FILTER FABRIC	SQ YD	3
AGGREGATE BASE COURSE, TYPE A 6"	SQ YD	871
* LEVELING BINDER (MACHINE METHOD), IL-9.5 FG, N50	TON	11.5
HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	45
HOT-MIX ASPHALT BINDER COURSE, IL-19.0 FG, N50	TON	101.1
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	318.5
* CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	5
* CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	328
AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	585
AGGREGATE WEDGE SHOULDER, TYPE B	TON	3.1
CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	2
SHOULDER REMOVAL AND REPLACEMENT 5"	FOOT	36
PIPE UNDERDRAINS 4" (MODIFIED)	FOOT	1,946
PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	50
SIGN PANEL - TYPE 1	SQ FT	10
WOOD SIGN SUPPORT	FOOT	29
REMOVE AND REINSTALL PARKING BLOCKS	EACH	18
AGGREGATE SHOULDERS (SPECIAL)	TON	209.8
REMOVE SIGN COMPLETE	EACH	2
BITUMINOUS MATERIALS (PRIME COAT)	POUND	2,906

BILL OF MATERIALS - HAWTHORN

ITEM	UNIT	TOTAL
EARTH EXCAVATION	CU YD	506
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	90
GRADING AND SHAPING DITCHES	FOOT	121
TEMPORARY DITCH CHECKS	FOOT	24
INLET AND PIPE PROTECTION	EACH	1
STONE RIPRAP, CLASS A3	SQ YD	12
FILTER FABRIC	SQ YD	12
AGGREGATE BASE COURSE, TYPE A 6"	SQ YD	1,025
* LEVELING BINDER (MACHINE METHOD), IL-9.5 FG, N50	TON	47.8
HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	196
HOT-MIX ASPHALT BINDER COURSE, IL-19.0 FG, N50	TON	117.9
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	510.2
* CLASS D PATCHES, TYPE I, 6 INCH	SQ YD	7
* CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	11
AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	982
AGGREGATE WEDGE SHOULDER, TYPE B	TON	7.0
CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	5
SHOULDER REMOVAL AND REPLACEMENT 5"	FOOT	154
PIPE UNDERDRAINS 4" (MODIFIED)	FOOT	3,476
PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	230
SIGN PANEL - TYPE 1	SQ FT	24
WOOD SIGN SUPPORT	FOOT	46
REMOVE AND REINSTALL PARKING BLOCKS	EACH	33
AGGREGATE SHOULDERS (SPECIAL)	TON	397.1
PIPE CULVERTS TO BE CLEANED 12"	FOOT	31
REMOVE SIGN COMPLETE	EACH	3
BITUMINOUS MATERIALS (PRIME COAT)	POUND	3,923

BILL OF MATERIALS - HICKORY

ITEM	UNIT	TOTAL
EARTH EXCAVATION	CU YD	673
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	193
GRADING AND SHAPING DITCHES	FOOT	136
TEMPORARY DITCH CHECKS	FOOT	8
INLET AND PIPE PROTECTION	EACH	2
STONE RIPRAP, CLASS A3	SQ YD	6
FILTER FABRIC	SQ YD	6
AGGREGATE BASE COURSE, TYPE A 6"	SQ YD	1,101
AGGREGATE BASE COURSE, TYPE A 12"	SQ YD	84
* LEVELING BINDER (MACHINE METHOD), IL-9.5 FG, N50	TON	19.2
HOT-MIX ASPHALT BINDER COURSE, IL 19.0 FG, N50	TON	136.4
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	328.4
PAVEMENT REMOVAL	SQ YD	10
* CLASS D PATCHES, TYPE I, 6 INCH	SQ YD	8
* CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	99
AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	768
AGGREGATE WEDGE SHOULDER, TYPE B	TON	0.9
CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	2
PIPE UNDERDRAINS 4" (MODIFIED)	FOOT	2,600
PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	66
SIGN PANEL - TYPE 1	SQ FT	10
WOOD SIGN SUPPORT	FOOT	17
REMOVE AND REINSTALL PARKING BLOCKS	EACH	27
AGGREGATE SHOULDERS (SPECIAL)	TON	365.3
PIPE CULVERTS TO BE CLEANED 12"	FOOT	100
REMOVE SIGN COMPLETE	EACH	1
BITUMINOUS MATERIALS (PRIME COAT)	POUND	3,512

* QUANTITIES ARE ESTIMATED AND SHALL ONLY BE USED AT THE DISCRETION OF THE ENGINEER.