CONTRACT NO.87388

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00090-00-WR	LASALLE	60	2
STA. 0+11.71		TO STA. 52+77.14		
FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1. ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON USGS MEAN SEA LEVEL DATUM.
2. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED IN THE INDEX OF SHEETS OF THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
3. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
4. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05 TONS / CU YD
BITUMINOUS PRIME COAT	0.10 GAL / SQ YD
BITUMINOUS CONCRETE SURFACE COURSE	112 LBS / SQ YD / IN
BITUMINOUS CONCRETE BINDER COURSE	112 LBS / SQ YD / IN
NITROGEN FERTILIZER NUTRIENT	90 LBS / ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	90 LBS / ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS / ACRE

5. THE FINISHED EARTHWORK SHALL HAVE A VEGATATIVE SUSTAINING SOIL COVERING THE TOP 4 INCHES IN AREA TO BE SEEDED. THE VEGETATIVE SUSTAINING SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
6. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.
7. A MINIMUM FOR FOUR SAND BAGS SHALL BE USED TO STABALIZE REQUIRED TYPE III BARRICADES.
8. THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
9. ALL ELEVATIONS SHOWN IN THE PLANS ARE TOP OF PAVEMENT GRADES UNLESS OTHERWISE NOTED.
10. ALL SAWCUTTING OF EXISTING PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE COST OF PAVEMENT REMOVAL. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE 1½" UNLESS OTHERWISE NOTED ON THE PLANS.
11. THE CONTRACTOR SHALL REMOVE, STORE, AND RE-ERECT EXISTING ROAD SIGNS AND MAILBOXES IN CONFLICT WITH THE PROPOSED WORK. THIS WORK SHALL BE INCIDENTAL TO THE COST OF EARTH EXCAVATION.
12. SOIL EROSION AND SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S "STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" DATED 1981.
13. PAVEMENT MARKING REMOVAL OF EXISTING STOPS BARS ON ILLINOIS ROUTE 18 SHALL BE CONSIDERED INCIDENTAL TO COST OF 24" THERMOPLASTIC (WHITE) INSTALLATION.

CONSTRUCTION TYPE CODE 0004

SUMMARY OF QUANTITIES

PAY ITEM	DESCRIPTION	UNITS	QUANTITY	Δ - SPECIALTY X - (SEE SPECIAL PROVISION)
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNITS	118.0	
20200100	EARTH EXCAVATION	CU YD	2885.0	X
20700110	POROUS GRANULAR EMBANKMENT	TON	500.0	
20800150	TRENCH BACKFILL	CU YD	376.6	
25000110	SEEDING, CLASS 1A	ACRE	2.5	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	227.0	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	227.0	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	227.0	
25100115	MULCH, METHOD 2	ACRE	2.5	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	75.0	
28000305	TEMPORARY DITCH CHECKS	FOOT	120.0	
28000400	PERIMETER EROSION BARRIER	FOOT	242.0	
28000500	INLET AND PIPE PROTECTION	EACH	30.0	
28100109	STONE RIPRAP, CLASS A5	SQ YD	68.0	
28100113	STONE RIPRAP, CLASS A7	SQ YD	512.0	
28200200	FILTER FABRIC	SQ YD	580.0	
35100100	AGGREGATE BASE COURSE, TYPE A	TON	9372.0	X
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	139.0	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	3943.0	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	1216.0	
40800010	BITUMINOUS MATERIALS (PRIME COAT)	GAL	7275.0	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	1775.7	
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	21350.0	
42400800	DETECTABLE WARNINGS	SQ FT	120.0	
44000100	PAVEMENT REMOVAL	SQ YD	9490.0	X
44000151	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2"	SQ YD	4535.0	X
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	770.0	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	220.0	
44000600	SIDEWALK REMOVAL	SQ FT	2187.0	
44300100	AREA REFLECTIVE CRACK CONTROL TREATMENT	SQ YD	206.0	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	4.0	X
50300225	CONCRETE STRUCTURES	CU YD	20.4	
50800105	REINFORCEMENT BARS	POUND	1960.3	
54010705	PRECAST CONCRETE BOX CULVERTS 7' X 5'	FOOT	94.0	X
54011005	PRECAST CONCRETE BOX CULVERTS 10' X 5'	FOOT	76.0	X
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2.0	
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1.0	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2.0	
54215385	ALUMINUM END SECTIONS, EQUIVALENT ROUND-SIZE 60"	EACH	2.0	
60200305	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE (FLAT TOP)	EACH	10.0	
60207105	CATCH BASINS, TYPE C, TYPE 3 FRAME AND GRATE	EACH	9.0	
60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID (FLAT	EACH	6.0	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	7.0	
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID (FLAT TOP)	EACH	2.0	
60224459	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2.0	
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	7.0	
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	10.0	
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	20.0	X
60266600	VALVE BOXES TO BE ADJUSTED	EACH	14.0	
60500060	REMOVING INLETS	EACH	10.0	X
60600605	CONCRETE CURB, TYPE B	FOOT	100.0	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	100.0	X
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	10833.0	X
63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	318.0	Δ
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	10.0	Δ
66400305	CHAIN LINK FENCE, 6'	FOOT	141.0	Δ
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	2660.0	X, Δ
66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1.0	X, Δ
66900530	SOIL DISPOSAL ANALYSIS	EACH	3.0	X, Δ
67100100	MOBILIZATION	L SUM	1.0	
72000200	SIGN PANEL - TYPE 2	SQ FT	15.25	Δ
72900100	METAL POST - TYPE A	FOOT	26.5	X, Δ
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2230.0	Δ
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	76.0	Δ
83600350	LIGHT POLE FOUNDATION, METAL, 11" BOLT CIRCLE, 8" X 6'	EACH	1.0	X, Δ
87502490	TRAFFIC SIGNAL POST, GALVANZIED STEEL 15 FT	EACH	1.0	X, Δ
542C0211	PIPE CULVERTS, CLASS C, TYPE 1 6"	FOOT	404.0	
542C8245	PIPE CULVERTS, CLASS C, TYPE 2 EQUIVALENT ROUND-SIZE 60"	FOOT	723.0	X
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	196.0	X
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	1164.0	X
550A0400	STORM SEWERS, CLASS A, TYPE 2 21"	FOOT	551.0	X
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	345.0	X
550A2520	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	FOOT	103.0	X
550A2530	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 15"	FOOT	224.0	X
550A2540	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 18"	FOOT	33.0	X
550A4900	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 24"	FOOT	204.0	X
550B0630	STORM SEWERS, CLASS B, TYPE 3 10"	FOOT	698.0	X
LR403000	BITUMINOUS HOT MIX SAND SEAL COAT	TON	130.0	X
X0322024	TRENCH DRAIN	EACH	3.0	X
X0326852	RADAR SPEED SIGN	EACH	1.0	X, Δ
X5400903	PRECAST CONCRETE BOX CULVERTS 9' X 3'	FOOT	20.0	X
X7010216	TRAFFIC CONTROL AND PROTECTION, SPECIAL	L SUM	1.0	X
* Z0076600	TRAINEES	HOURS	1000.0	X

* CONSTRUCTION TYPE CODE 0042

Δ SPECIALTY ITEMS

FLEXIBLE BITUMINOUS PAVEMENT - (New Section)

REQUIRED THICKNESS = 8.75 INCHES

PROPOSED PAVEMENT LAYERS
- 2" BITUMINOUS CONCRETE SURFACE COURSE, HOT-MIX ASPHALT, MIX C, N-50, IL 9.5
- 3 1/4" BITUMINOUS CONCRETE BINDER COURSE, HOT-MIX ASPHALT, N-50, IL 19.0
- 3 1/2" BITUMINOUS CONCRETE BINDER COURSE, HOT-MIX ASPHALT, N-50, IL 19.0

	HMA BINDER	HMA SURFACE	HMA LEVEL BINDER
PG GRADE	PG 64-22 / PG 58-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 19.0	IL 9.5	IL 9.5
FRICTION AGGREGATE		\G1033;\G1033;\bu*MIXTURE C*	
DENSITY TEST METHOD	NUCLEAR / CORES	NUCLEAR / CORES	NUCLEAR / CORES

* **Material shall be compacted to 93.0 - 97.4 percent of the maximum theoretical density, except that when placed as first lift on an unimproved subgrade the minimum percent compaction shall be 92.0 percent.**

STRUCTURAL DESIGN DATA (S. Ottercreek Rd.)

FACILITY CLASS: II (2-LANE)
LOAD LIMIT: 80,000 LBS
EXISTING ADT: 2723 (YEAR 2009)
STRUCTURAL DESIGN ADT: 3000 (YEAR 2029)
PV = 2760 (92.0%)
SU = 150 (5.0%)
MU = 90 (3.0%)

TRAFFIC FACTOR = 0.52

SUBGRADE SUPPORT RATING = FAIR

DESIGN E_{AC} = 490

DESIGN STRAIN = 128

LEGEND

- SIDEWALK CURB RAMP
- Ⓡ REMOVING EXISTING STRUCTURE
- Ⓐ ADJUST EXISTING VALVE VAULT
- Ⓐ ADJUST EXISTING FRAME/LID
- 630.95 GRADE POINT
- MAILBOX
- DRAINAGE SWALE

	SCALE: 1" = 20'	DESIGNED - JEP	REVISED - 11/29/2011
		DRAWN - JCL	REVISED - ___
		CHECKED - JEP	REVISED - ___
		DATE - 12/01/2008	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Notes & Quantities