SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE: ROADWAY 0004 80 % FED 20 % FED	TRAFFIC 0021 80 % FED 20 % FED	LIGHTING 0021 80 % FED 20 % FED			
40701871	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH),	SQ YD	4682	4682					
	9 1/2"								
40701906	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH),	SQ YD	6578	6578					
	11 1/4"								
42001300	PROTECTIVE COAT	SQ YD	1335	1335	1				
44000100	PAVEMENT REMOVAL	SQ YD	17,098	17,098					
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	953	953					
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	163.7	163.7					
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	3954	3954					
50105220	PIPE CULVERT REMOVAL	FOOT	101	101					
54213660	PRECAST REINFORCED CONCRETE FLARED END	EACH	8	8					
	SECTIONS 15"								
5421A015	PIPE CULVERT, CLASS A, TYPE 1, 15" (TEMPORARY)	FOOT	15	15					
54214737	PRECAST REINFORCED CONCRETE FLARED END	EACH	2	2					
	SECTIONS - ELLIPTICAL, EQUIVALENT								
	ROUND-SIZE 42"								
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	30.6	30.6					
54248510	CONCRETE COLLAR	CU YD	1	1					
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	23.5	23.5					
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	280.1	280.1					
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	459.3	459.3					

SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE: ROADWAY 0004 80 % FED 20 % FED	TRAFFIC 0021 80 % FED 20 % FED	LIGHTING 0021 80 % FED 20 % FED			
	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	141	141					
						1				
	542A8227	PIPE CULVERTS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 42"	FOOT	73.2	73.2					
	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	11	11					
	60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	435	435					
	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	7120	7120					
	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE	EACH	16	16					
		24 FRAME AND GRATE								
	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND	EACH	5	5					
		GRATE								
	60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1					
	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1	EACH	4	4					
		FRAME, CLOSED LID								
	60600095	CLASS SI CONCRETE (OUTLET)	CU YD	10.5	10.5					
	60600605	CONCRETE CURB, TYPE B	FOOT	254	254					
	60608582	COMBINATION CONCRETE CURB AND GUTTER,	FOOT	4003	4003					
		TYPE M-4.24								
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1945	1945					
*	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1					

1 REV. 10-24-2018

FILE NAME = pw:\\LO84EBtDINTEGJIllinois.gov:PWIDOT\Documents\IDOT Offices\District IVProjects\PH44809CADData\Design\PH44809DRAINW.dgn	USER NAME = abebawa	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / In.	CHECKED -	REVISED -
	PLOT DATE = 8/17/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

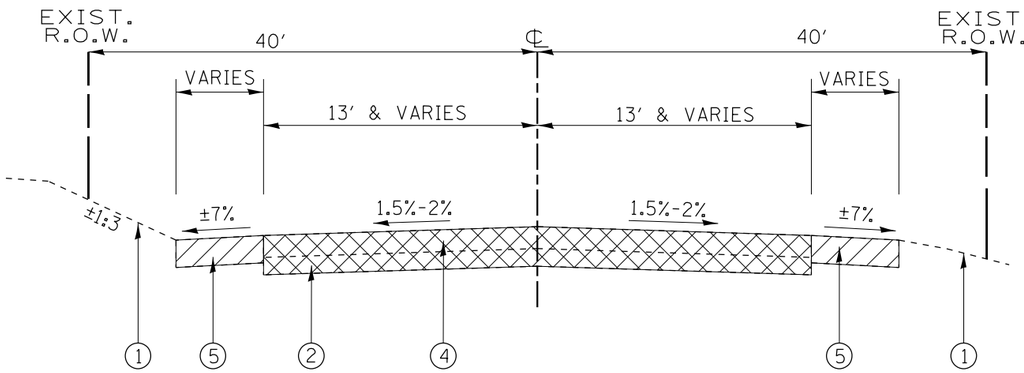
SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

* SPECIALTY ITEMS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	106X-R-4	KANE	107	5
		CONTRACT NO. 62F16		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

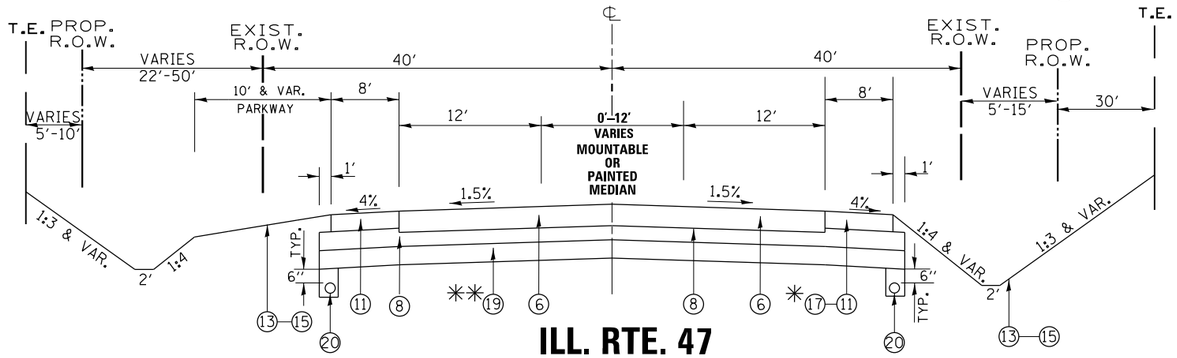
REV. - MS



ILL. RTE. 47
EXISTING TYPICAL SECTION
STA. 400+00 (490+00 EX.) TO STA. 510+00 (510+00 EX.)

PAVEMENT REMOVAL/SHOULDER REMOVAL

AGGREGATE SHOULDER REMOVAL
(PAID FOR AS EARTH EXCAVATION)



ILL. RTE. 47
PROPOSED TYPICAL SECTION
STA. 400+00 (490+00 EX.) TO STA. 510+00 (510+00 EX.)

☐ TRANSVERSE CONTRACTION JOINTS TO BE SPACED EVERY 15FT FOR STAMPED COLORED PCC PAVEMENT

✳ NB SHOULDER SHALL BE BUILT AS TEMPORARY PAVEMENT FROM STA. 202+00 (502+00 EX.) TO STA. 209+98.9 (510+00 EX.)

✳✳ NOTE A: (STA. 402+50 TO STA. 405+00)

A GROUND STABILIZING GEOTEXTILE FABRIC BE PLACED OVER THE PREPARED SUBGRADE AND COVERED WITH AGGREGATE SUBGRADE IMPROVEMENT AND TO BE PRESENT BELOW THE ENTIRE WIDTH OF THE PORPOSED EMBANKMENT NECESSARY TO CONSTRACT BOTH LANES.

LEGEND:

1. EXISTING GROUND
2. EXISTING P.C.C PAVEMENT ± 8"
3. EXISTING HOT-MIX ASPHALT PAVEMENT, ± 12"
4. EXISTING HOT-MIX ASPHALT PAVEMENT ± 7"
5. EXISTING AGGREGATE SHOULDER, TYPE A
5A. EXISTING HOT-MIX ASPHALT SHOULDER
5B. PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2"
6. PROP. HOT-MIX ASPHALT PAVEMENT (FULL - DEPTH) 11 1/4" - IL RTE. 47
7. PROP. HOT-MIX ASPHALT PAVEMENT (FULL - DEPTH) 9 1/2" - PLATO RD.
7A. PROP. POLY. HMA SURFACE COURSE, MIX "E", N70, 2"
8. PROP. AGGREGATE SUBGRADE IMPROVEMENT, 12"
9. PROP. COMBINATION CONCRETE CURB & GUTTER TYPE M-4.24
10. PROP. CONCRETE CURB, TYPE B - 6"
11. PROP. HOT-MIX ASPHALT SHOULDERS, 8"
12. PROP. CONCRETE MEDIAN SURFACE, 8"
13. PROP. TOP SOIL, EXCAVATION AND PLACEMENT, SEED, AND NUTIRENTS
14. PROP. STAMPED COLORED PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED) - [TRANSVERSE CONTRACTION JOINTS TO BE SPACED EVERY 15FT.]
15. PROP. DITCH
16. PROP. PAVEMENT REMOVAL
17. PROP. TEMPORARY PAVEMENT
18. PROP. STABILIZED SUBBASE HOT-MIX ASPHALT, 4"
✳✳ 19. PROP. AGGREGATE SUBGRADE IMPROVEMENT, CU YD
✳✳✳ 20. PROP. PIPE UNDERDRAINS

✳✳✳ INSTALL LONGITUDINAL AND TRANSVERSE PIPE UNDERDRAINS BELOW THE PAVEMENT IN AREAS WHERE THE ROAD WILL BE RECONSTRUCTED. INSTALL TRANSVERSE DRAINS USING OF 300 FT. INTERVALS THE DRAINS SHOULD BE INSTALLED IN LOW AREAS AND AT BASE OF ANY UNDERCUTS. THE UNDERDRAINS SHOULD TIE INTO THE DRAINAGE SYSTEM WHEN POSSIBLE AND SHOULD BE INSTALLED PER ARTICLE 601 IN THE IDOT STANDARD SPEC. AND CONSIST OF TYPE 2 UNDERDRAINS. THE COST OF MAKING PIPE UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
PAVEMENT RECONSTRUCTION (IL RTE. 47) - HMA (FD) 11 1/4"		
POLYMERIZED HMA SURFACE COURSE, MIX "E", N70; 2" (IL-9.5 mm)	4.0% @ 70 GYR.	QCP
POLYMERIZED HMA BINDER COURSE (IL-19.0mm); N90; 2 1/4"	4.0% @ 90 GYR.	QCP
HMA BASE COURSE (IL-19.0mm); N90; 7"	4.0% @ 90 GYR.	QCP
PAVEMENT RECONSTRUCTION (PLATO RD.) - HMA (FD) 9 1/2"		
POLYMERIZED HMA SURFACE COURSE, MIX "E", N70; 2" (IL-9.5 mm)	4.0% @ 70 GYR.	QCP
POLYMERIZED HMA BINDER COURSE (IL-19.0mm); N90; 2 1/4"	4.0% @ 90 GYR.	QCP
HMA BASE COURSE (IL-19.0mm); N70; 5 1/4"	4.0% @ 70 GYR.	QCP
HMA SHOULDERS, 8"		
HMA SHOULDER (HMA BINDER IL-19mm); 6"	4.0% @ 70 GYR.	QC/QA
POLY. HMA SURFACE COURSE, MIX "E", N70; 2" (IL-9.5 mm)	4.0% @ 70 GYR.	QC/QA
DRIVEWAYS		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm); 2"	4.0% @ 50 GYR.	QC/QA
HMA BASE COURSE (HMA BINDER IL-19mm); PE-6" or CE-8"	4.0% @ 50 GYR.	QC/QA
TEMPORARY PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm); 2"	4.0% @ 70 GYR.	QC/QA
HMA BINDER COURSE (HMA BINDER IL-19.0mm); 8"	4.0% @ 70 GYR.	QC/QA
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19mm)	4.0% @ 70 GYR.	QC/QA
TRUCK APRON		
STABILIZED SUB-BASE (HMA BINDER IL-19 mm); 4"	3.0% @ 50 GYR.	QC/QA
RESURFACING		
POLY. HMA SURFACE COURSE, MIX "E", N70; 2" (IL-9.5 mm)	4.0% @ 70 GYR.	QC/QA
OMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)		

1

TEMPORARY PAVEMENT

OPTION 1

10" FULL DEPTH TEMPORARY HMA PAVEMENT
2" HMA SURFACE COURSE, MIX "D", N70
8" HMA BINDER COURSE, IL-19.0, N70
4" SUBBASE GRANULAR MATERIAL TYPE B (CA-6)

OPTION 2

8" TEMPORARY PCC PAVEMENT
4" SUBBASE GRANULAR MATERIAL TYPE B (CA-6)

NOTE:

" PCC TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENT OF ART. 1020 OF THE STANDARD SPECIFICATION; THICKNESS SHALL BE 8" AND TEMPORARY P.C.C PAVEMENT DOES NOT REQUIRE DOWEL BARS."

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE AC TYPE FOR POLYMERIZED HMA MIXTURES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

1 REV. 10-24-2018

MODEL: Default
FILE NAME: pw:\\IL084-EBIDNTEG.bentley.com:IL084-EBIDNTEG-pw02-PWIDOT\Documents\IDOT Offices\District 1\Projects\P144809\CADData\Data\dgn\P144809-sht-cover.dgn

USER NAME = abebawa	DESIGNED -	REVISED - 10/23/18 A.A	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/23/2018	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTION
ILL RTE. 47 AT PLATO ROAD

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	106X-R-4	KANE	107	8
		CONTRACT NO. 62F16		
		ILLINOIS	FED. AID PROJECT	

EARTHWORK SCHEDULE

IL RTE. 47	EARTH EXCAVATION (CU. YD.)	TOP SOIL EXCAVATION (CU. YD.)	TOP SOIL EXCAVATION USED AS TOP SOIL (SHRINKAGE 15%) (CU. YD.)	EXCAVATION USED AS EMBANKMENT (SHRINKAGE 15%) (CU. YD.)	EMBANKMENT (CU. YD.)	TOP SOIL PLACEMENT (CU. YD.)	EARTH WORK BALANCE SURPLUS (+) OR SHORTAGE (-) (CU. YD.)	TOP SOIL BALANCE SURPLUS (+) OR SHORTAGE (-) (CU. YD.)
PRE-STAGE - NORTH LEG	925	2576	2189.6	786.2	423	0	363.2	2189.6
PRE-STAGE - SOUTH LEG	1094	1607	1365.9	929.9	344	0	585.9	1365.9
NORTH LEG	3595	3269	2778.6	3055.7	2165	1667	890.7	1111.6
SOUTH LEG	1786	2964	2519.4	1518.1	2888	1167	-1369.9	1352.4
STAGE - ROUNDABOUT	319	1826	1552.1	271.1	2537	1069	-2265.9	483.1
PLATO RD.								
EAST LEG	879	2688	2284.8	747.1	2161	679	-1413.9	1605.8
WEST LEG	1943	5744	4882.4	1651.5	3966	1485	-2314.5	3397.4
TOTAL	10541	20674	17572.8	8959.9	14484	6067	-5524.4	11505.8

TREE REMOVAL SCHEDULE

STATION (PROP.)	OFFSET/SIDE (FEET)	6 TO 15 UNIT (DIA.)	OVER 15 UNIT (DIA.)
400+58	59.0' L		17
400+58	39.9' L		17
401+67.8	41.1' L		16
401+77.1	39.2' L	12	
401+77.1	39.2' L	12	
402+01	39.7' L	12	
402+01	39.7' L	12	
402+01	39.7' L	12	
403+25.8	41.9' L	15	
403+25.8	41.9' L	15	
403+27.1	41.1' L	6	
403+27.1	41.1' L	6	
403+27.1	41.1' L	6	
403+27.1	41.1' L	6	
403+32.1	40.4' L	12	
403+32.1	40.4' L	12	
403+32.1	40.4' L	12	
403+32.1	40.4' L	12	
403+32.1	40.4' L	12	
403+77	40.2' L	10	
403+77	40.2' L	10	
		194	**50**

STATION (PROP.)	OFFSET/SIDE (FEET)	6 TO 15 UNIT (DIA.)	OVER 15 UNIT (DIA.)
405+26	40.0' L		20
405+34	40.0' L	12	
405+34	45.3' L	8	
		20	**20**

STATION	OFFSET/SIDE (FEET)	6 TO 15 UNIT (DIA.)	OVER 15 UNIT (DIA.)
100+00	30.1' L	12	16
100+36	29.3' L		30
100+36	29.3' L		30
100+57	29.7' L	15	
100+57	29.7' L	15	
100+80	30.0' L		36
101+32	32.6' L		42
102+17	30.5' L	15	
		57	**154**

TOTAL	6 TO 15 UNIT DIAMETER	OVER 15 UNIT DIAMETER
	271	**224**

1 REV. 10-24-2018

FILE NAME = P144809-sht-cover.dgn	USER NAME = midyja	DESIGNED	REVISED - 10/23/18 A.A
		DRAWN	REVISED -
	PLOT SCALE = 100.0000 '/ in.	CHECKED	REVISED -
	PLOT DATE = 10/23/2018	DATE	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE. 47 AT PLATO RD.
SCHEDULES OF QUANTITIES

SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET
326	106X-R-4	KANE	107	12
		CONTRACT NO. 62F16		
	ILLINOIS FED. AID PROJECT			