

104

03-08-2019 LETTING ITEM 104

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	14-1PP-DR-1	CLINTON	7	1
		ILLINOIS	CONTRACT NO. 76M07	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

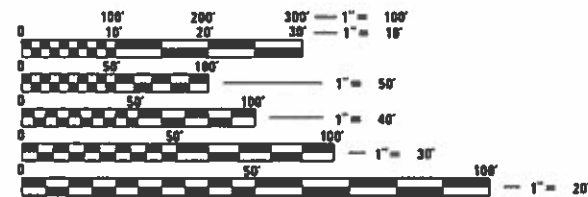
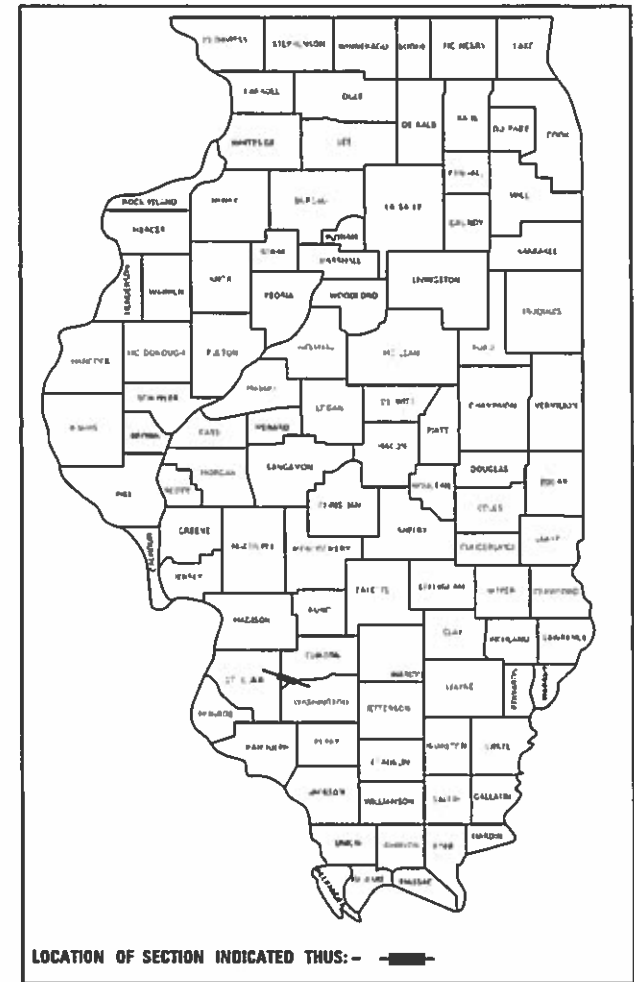
FAI ROUTE 64 (I-64)  
SECTION 14-1PP-DR-1  
PATCHING AND UNDERDRAINS - CM  
CLINTON COUNTY

C-98-015-19

### ADT

2017 ADT = 29600 (ACTUAL)  
2019 ADT = 30200 (ESTIMATED)  
2039 ADT = 36,800 (ESTIMATED)  
SU = 3.2%, MU = 21.3%

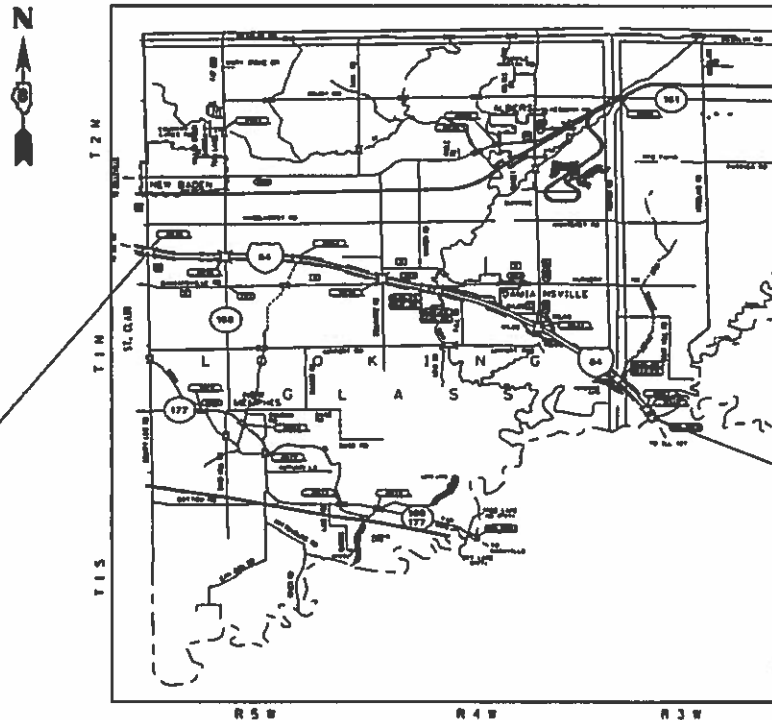
D-98-012-19



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

BEGIN PROJECT  
STA. 1458+82



END PROJECT  
STA. 1857+49 WB  
STA. 1855+79 EB

PROJECT ENGINEER: HERVE GELIN (618) 346-3179  
PROJECT MANAGER: ALVIN NIEVES ROSARIO (618) 346-3187

CONTRACT NO. 76M07

GROSS / NET LENGTH = 7.50 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 6 20 18

Jeffrey Z. Kaimos  
REGIONAL ENGINEER

Feb 1 20 19  
A. Etk

ENGINEER OF DESIGN AND ENVIRONMENT

Feb 1 20 19  
Paul P. Ch...  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, COMMITMENTS AND GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4-5 SCHEDULE OF QUANTITIES
- 6 TYPICAL SECTIONS
- 7 DETAILS

**HIGHWAY STANDARDS**

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 442001-04 CLASS A PATCHES
- 601001-05 PIPE UNDERDRAINS
- 601101-02 CONCRETE HEADWALL FOR PIPE UNDERDRAINS
- 642001-02 SHOULDER RUMBLE STRIPS, 16 IN.
- 701400-09 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-12 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
- 701428-01 TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
- 701901-08 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

**COMMITMENTS**

NONE

**GENERAL NOTES**

- ① ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. (1-800-892-0123 OR 811) OR FOR NON-MEMBERS THE UTILITY COMPANY DIRECTLY. MEMBERS OF J.U.L.I.E. ARE INDICATED BY \*.

UTILITY	ABOVE GROUND	BELOW GROUND
*AMEREN ILLINOIS (COMMUNICATIONS)	X	X
*CHARTER COMMUNICATIONS, INC. (CABLE TV)	X	X
*CLEARWAVE COMMUNICATIONS (COMMUNICATIONS)	X	X
*CLINTON COUNTY ELECTRIC COOPERATIVE, INC. (ELECTRIC)	X	X
*COUNTRYMARK COOPERATIVE, LLP (PIPELINE)		X
*VILLAGE OF DAMIANVILLE (WATER AND SANITARY SEWER)		X
*FRONTIER COMMUNICATIONS (COMMUNICATIONS)	X	X
*VERIZON BUSINESS (COMMUNICATIONS)	X	X
*VILLAGE OF NEW BADEN (WATER & SANITARY SEWER)		X
*NEW MEMPHIS PUBLIC WATER DISTRICT (WATER)		X

- ② "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS AND REQUIRED RAMP, AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE. (48"x48")
- ③ FLAGMEN SHALL BE PRESENT DURING ALL CLOSURE HOURS, INCLUDING LUNCH HOUR, AND NO ADDITIONAL COMPENSATION SHALL BE APPLIED.
- ④ THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- ⑤ EXCESS BITUMEN REMOVAL SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- ⑥ THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE REQUIREMENTS			
MIXTURE USE	POLY SURFACE COURSE	POLY BINDER COURSE	SHOULDERS ≥ 2.25"
AC/PG	SBS PG 76-22	SBS PG 76-22	PG 76-22
RAP % (MAX)	SEE SPECS.	SEE SPECS.	SEE SPECS.
DESIGN AIR VOIDS	4.0% @ NDES=90	4.0% @ NDES=90	4.0% @ NDES=30
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0	IL 19.0L
FRICTION AGG	MIXTURE "E"	MIXTURE "C"	
QUALITY MGMT PROGRAM	QC/QA	QC/QA	QC/QA

- ⑦ HIGH EARLY STRENGTH CONCRETE MIX SHALL BE USED FOR ALL PCC PATCHING.
- ⑧ THE PIPE UNDERDRAIN 6" SPECIAL OUTLET LOCATIONS WILL BE DETERMINED IN THE FIELD AFTER TYPE A PATCHING IS COMPLETE IN ORDER TO ENSURE PROPER DRAINAGE
- ⑨ HMA REMOVAL FOR REPAVING THE APPROACHES TO THE EASTBOUND AND WESTBOUND STRUCTURES IS INTENDED TO BE REMOVED DOWN TO THE EXISTING CRPCC PAVEMENT AND CONCRETE BRIDGE APPROACH PAVEMENT

REV. - MS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE
				CONSTR. CODE
				ROADWAY 0006 RURAL
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	2282	2282
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	300	300
40603570	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N90	TON	240	240
44000163	HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/2"	SQ YD	2680	2680
44200577	CLASS A PATCHES, TYPE II, 12 INCH	SQ YD	60	60
44200581	CLASS A PATCHES, TYPE III, 12 INCH	SQ YD	42	42
44200583	CLASS A PATCHES, TYPE IV, 12 INCH	SQ YD	1223	1223
44213000	PATCHING REINFORCEMENT	SQ YD	1324	1324
44213200	SAW CUTS	FOOT	2862	2862
44213204	TIE BARS 3/4"	EACH	458	458
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	14	14
60100070	SHOULDER REMOVAL AND REPLACEMENT	FOOT	2210	2210
60108106	PIPE UNDERDRAINS, TYPE 1, 6"	FOOT	2150	2150
60108200	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	650	650

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE
				CONSTR. CODE
				ROADWAY 0006 RURAL
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	2150	2150
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3
67100100	MOBILIZATION	L SUM	1	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	4	4
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1
* 78004100	PREFORMED PLASTIC PAVEMENT MARKING, TYPE C - LETTERS AND SYMBOLS	SQ FT	28	28
* 78004230	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"	FOOT	3330	3330
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	84	84
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	84	84
Z0040530	PIPE UNDERDRAIN REMOVAL	FOOT	2800	2800

\* SPECIALTY ITEM

MODEL: \\MODELNAME  
FILE: \\FILE\_PWD\BID\NTEG\Illinois.gov\PWD\DOT\Documents\BID\011\14-1PP-DR-1\CADD\DATA\CAD\Sheet\DR\_76M07\_414-500.dgn

REV. - MS

USER NAME = jeffersons	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 100.1611' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 11/27/2018	DATE - _____	REVISED - _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	14-1PP-DR-1	CLINTON	7	3
CONTRACT NO. 76M07				
ILLINOIS FED. AID PROJECT				

PATCHING SCHEDULE									
Station	DL/PL	LENGTH FOOT	WIDTH FOOT	CLASS A PATCHES, 12"			PATCHING REINFORCEMENT SQYD	TIE BARS 3/4" EACH	SAW CUTS FOOT
				Type II	Type III	Type IV			
I-64 EASTBOUND									
1458+68	DL	250	12			334	334	125	548
1476+63	DL	20	12			27	27	10	88
1503+34	DL	6	12	8			8		60
1503+97	DL	10	12	14			14		68
1513+15	DL	45	12			60	60	23	138
1621+33	DL	12	12		16		16		72
1622+01	DL	6	12	8			8		60
1622+27	DL	15	12		20		20		78
1622+69	DL	40	12			54	54	20	128
1672+90	DL	50	12			67	67	25	148
1738+56	DL	30	12			40	40	15	108
1796+09	DL	10	12	14			14		68
I-64 WESTBOUND									
1736+79	DL	200	12			267	267	100	448
1622+06	DL	6	12	8			8		60
1620+90	PL	100	12			134	134	50	248
1620+74	DL	60	12			80	80	30	168
TOTAL									
PATCHING SUBTOTAL				52	36	1063	1151	398	2488
15% ANTICIPATED FAILURES				8	6	160	173	60	374
PATCHING TOTAL				60	42	1223	1324	458	2862

UNDERDRAIN SCHEDULE								
STA. TO STA.	DL/PL	PIPE UNDERDRAINS, TYPE 1, 6"	PIPE UNDERDRAIN 6" (SPECIAL)	CONCRETE HEADWALLS FOR PIPE DRAINS	SHOULDER REMOVAL AND REPLACEMENT	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	SHOULDER RUMBLE STRIPS, 16 INCH	
		FOOT	FOOT	EACH	FOOT	POUNDS	FOOT	
I-64 EASTBOUND								
1458+31	1461+81	DL	350	100	2	358	71	350
1512+69	1515+44	DL	275	100	2	283	56	275
1675+31	1678+81	DL	350	100	2	358	71	350
1792+52	1795+27	DL	275	100	2	283	56	275
I-64 WESTBOUND								
1621+64	1618+14	DL	350	100	2	358	71	350
1622+39	1619+09	PL	250	50	2	262	76	250
1736+37	1733+37	DL	300	100	2	308	61	300
TOTAL			2150	650	14	2210	462	2150

MODEL: \\MODELNAME  
 FILE NAME: \\FILENAME  
 PROJECT: \\PROJECT  
 DRAWING: \\DRAWING  
 DATE: \\DATE

USER NAME = jeffersons	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 100.1266' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 11/27/2018	DATE - _____	REVISED - _____

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: \_\_\_\_\_ SHEET 1 OF 1 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	14-1PP-DR-1	CLINTON	7	4
CONTRACT NO. 76M07				
ILLINOIS FED. AID PROJECT				

HOT-MIX ASPHALT REMOVAL AND REPLACEMENT SCHEDULE							
STA.	DL/PL	LENGTH	WIDTH	HOT-MIX ASPHALT SURFACE REMOVAL 3.5"	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2"	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N90, 1.5"
		FOOT	FOOT	SQYD	POUNDS	TONS	TONS
I-64 EASTBOUND							
1802+15	DL	100	12	134	91	15	12
1802+15	PL	100	12	134	91	15	12
1803+46	DL	100	12	134	91	15	12
1803+46	PL	100	12	134	91	15	12
1836+93	DL	100	12	134	91	15	12
1836+93	PL	100	12	134	91	15	12
1840+67	DL	100	12	134	91	15	12
1840+67	PL	100	12	134	91	15	12
1852+98	DL	100	12	134	91	15	12
1852+98	PL	100	12	134	91	15	12
I-64 WESTBOUND							
1854+73	DL	100	12	134	91	15	12
1854+73	PL	100	12	134	91	15	12
1842+82	DL	100	12	134	91	15	12
1843+82	PL	100	12	134	91	15	12
1839+60	DL	100	12	134	91	15	12
1839+60	PL	100	12	134	91	15	12
1803+02	DL	100	12	134	91	15	12
1803+02	PL	100	12	134	91	15	12
1801+70	DL	100	12	134	91	15	12
1801+70	PL	100	12	134	91	15	12
TOTAL				2680	2282*	300	240

\* TOTAL QUANTITY FOR TACK COAT EQUAL TO THE SUM OF QUANTITIES FROM THE HOT-MIX ASPHALT R&R SCHEDULE AND THE PATCHING SCHEDULE

PAVEMENT MARKING SCHEDULE			
Station	DL/PL	RAISED REFLECTIVE PAVEMENT MARKER	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
		EACH	FOOT
I-64 EASTBOUND			
1458+68	DL	8	313
1476+63	DL	2	25
1503+34	DL	2	8
1503+97	DL	2	13
1513+15	DL	2	57
1621+33	DL	2	15
1622+01	DL	2	8
1622+27	DL	2	19
1622+69	DL	2	50
1672+90	DL	2	63
1738+56	DL	2	38
1796+09	DL	2	13
1802+15	DL	4	125
1802+15	PL		100
1803+46	DL	4	125
1803+46	PL		100
1836+93	DL	4	125
1836+93	PL		100
1840+67	DL	4	125
1840+67	PL		100
1852+98	DL	4	125
1852+98	PL		100
I-64 WESTBOUND			
1736+79	DL	6	250
1622+06	DL	2	8
1620+90	PL	4	125
1620+74	DL	2	75
1854+73	DL	4	125
1854+73	PL		100
1842+82	DL	4	125
1842+82	PL		100
1839+60	DL	4	125
1839+60	PL		100
1803+02	DL	4	125
1803+02	PL		100
1801+70	DL	4	125
1801+70	PL		100
TOTAL		84	3330

MODEL: S:\MODEL\HAMES  
FILE NAME: p:\11084\EBID\NITEG\Illinois.gov\PWIDOT\Documents\DOT Office\District B\Projects\0876407\CADD\Drawings\CAD\Sheets\0876407-snc-schedule.dgn

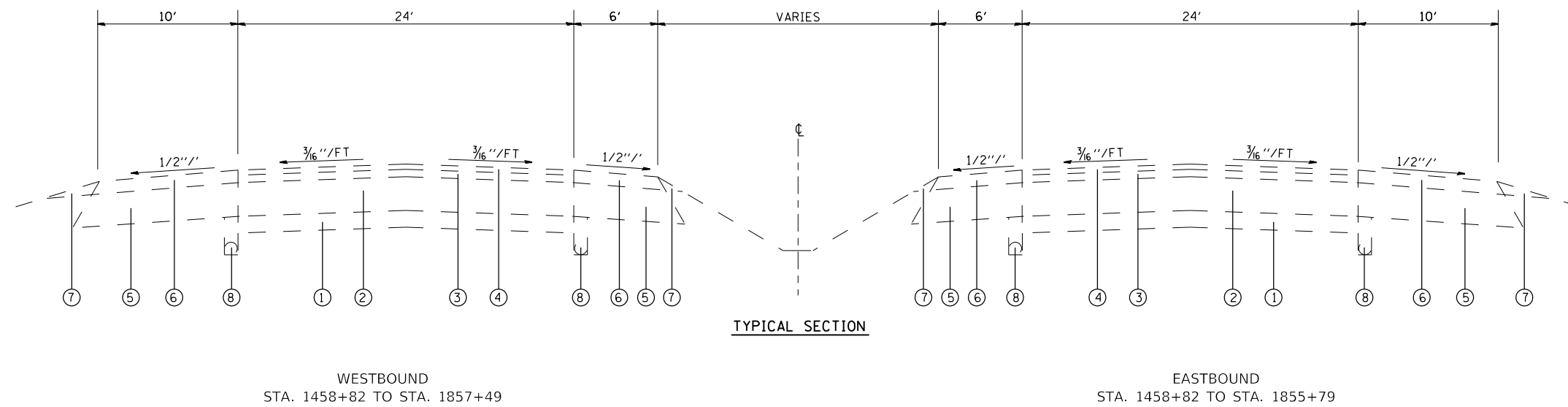
USER NAME = jeffersons	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 99.9524' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 11/26/2018	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: \_\_\_\_\_ SHEET 1 OF 1 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

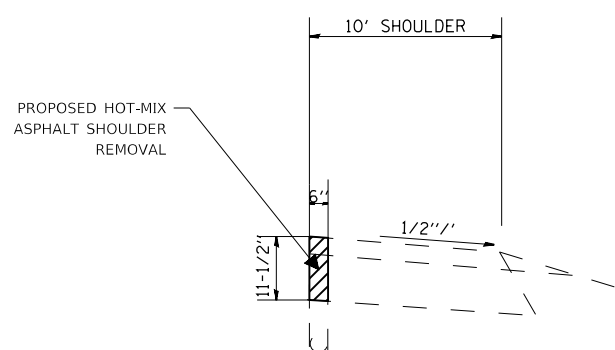
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	14-1PP-DR-1	CLINTON	7	5
CONTRACT NO. 76M07				
ILLINOIS FED. AID PROJECT				



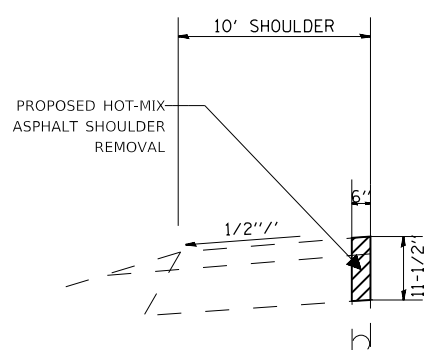
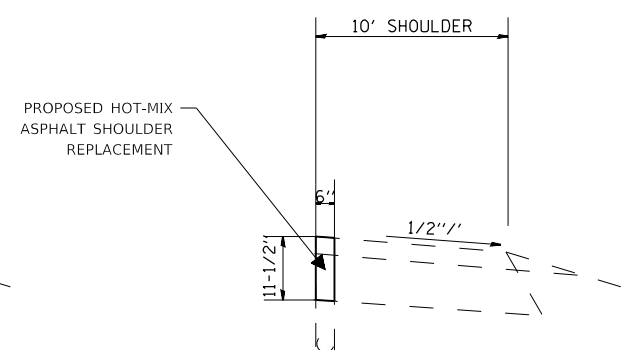
**LEGEND**

- ① EXISTING STABILIZED SUB-BASE - 4"
- ② EXISTING CONTINUOUSLY REINFORCED P.C.C. PAVEMENT - 8"
- ③ EXISTING HMA BINDER COURSE, 2"
- ④ EXISTING HMA SURFACE COURSE, MIX E, 1-1/2"
- ⑤ EXISTING STABILIZED SHOULDER, 8"
- ⑥ EXISTING HMA SHOULDER, 3-1/2"
- ⑦ EXISTING AGGREGATE SHOULDERS
- ⑧ EXISTING PIPE UNDERDRAINS, 6"

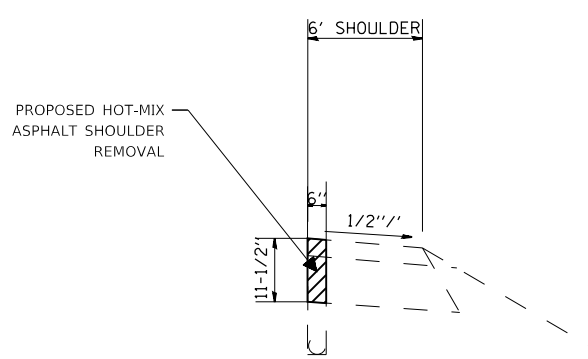
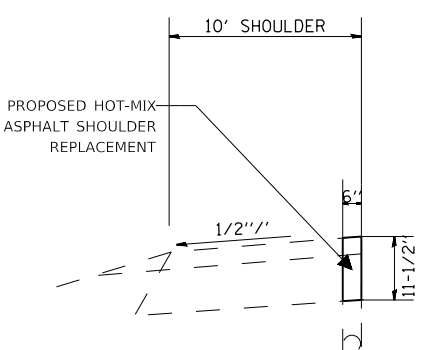
FILE NAME =	USER NAME = jeffersons	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN					SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____		64	14-1PP-DR-1	CLINTON	7	6
PLOT SCALE = 125.0691' / in.					CHECKED - _____		CONTRACT NO. 76M07				
PLOT DATE = 11/29/2018					DATE - _____		ILLINOIS FED. AID PROJECT				



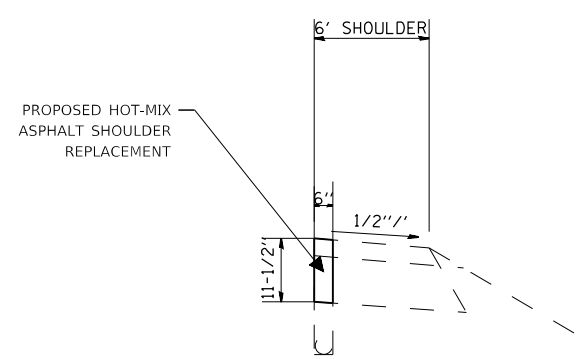
SHOULDER REMOVAL AND REPLACEMENT  
I-64 EASTBOUND DRIVING LANE  
(NOT DRAWN TO SCALE)



SHOULDER REMOVAL AND REPLACEMENT  
I-64 WESTBOUND DRIVING LANE  
(NOT DRAWN TO SCALE)



SHOULDER REMOVAL AND REPLACEMENT  
I-64 WESTBOUND PASSING LANE  
(NOT DRAWN TO SCALE)



FILE NAME =	USER NAME = jeffersonts	DESIGNED -	REVISED -
p:\1\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District B\Projects\0876M07\Drawings\CADsheets\0876M07-shr-plan.dwg		CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 12/3/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SHOULDER DETAIL**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	14-1PP-DR-1	CLINTON	7	7
				CONTRACT NO. 76M07
ILLINOIS FED. AID PROJECT				