01-20-2023 LETTING ITEM 004

FOR INDEX OF SHEETS & STATE STANDARDS SEE SHEET NO. 2

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP 300 (IL 5) & FAP 596 (IL 5) SECTION 5HL-1 **PROJECT NHPP-4129(808) ROCK ISLAND COUNTY** C-92-046-19

PROJECT LOCATION
1L 92 at 1L 5

R-1-E Riverdale CAMPBELL'S ISLAND STATE MEMORIAL Silvis POP. 7,269 Moline R1E

FAP RTE. SECTION
300 IL 5 SML-1

D-92-034-19

CONTRACT NO. 64N69

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

OCATION OF SECTION INDICATED THUS:-

SUBMITTED October 7, 20 22

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 9, 202

ENGINEER OF DESIGN AND ENVIRONMENT

December 9, 2022

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CONTRACT NO. 64N69

IL 5 **FAP 300**

SECTION 5HL-1 **ROCK ISLAND COUNTY**

REV. 11/4/22

INDEX OF SHEETS

- 1. COVER SHEET
- 2. INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES
- 3. SCHEDULE OF QUANTITIES
- 4. LIGHTING REMOVAL PLAN IL 92 AT IL 5
- 5. PROPOSED LIGHTING PLAN IL 92 AT IL 5
- 6. PROPOSED LIGHTING WIRING DIAGRAMS IL 92 AT IL 5
- 7. LUMINAIRE PERFORMANCE TABLE

LEGEND



PROPOSED ROADWAY LIGHTING UNIT, 40' M.H., LED HORIZONTAL MOUNT 240V LUMINAIRE, BREAKAWAY COUPLINGS ON 6' METAL FOUNDATION WITH POLE SETBACK OF 30' FROM EDGE OF PAVEMENT, UNLESS NOTED OTHERWISE.



PROPOSED LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240V.



PROPOSED UNIT DUCT, SIZE AS NOTED.



UNDERGROUND CONDUIT CASING, CNC, 2" DIA.



EXISTING LIGHTING UNIT AND FOUNDATION TO BE REMOVED (POLE NUMBER NOTED).



EXISTING SIGN LIGHTING UNIT TO BE REMOVED



EXISTING LIGHTING CONTROLLER TO BE REMOVED.

STATE STANDARDS

701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS > 45 MPH OR MORE
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS > 45 MPH
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
821101-02	LUMINAIRE WIRING IN POLE
825011-04	LIGHTING CONTROLLER PEDESTAL MOUNTED, 240V
830011-03	LIGHT POLE STEEL MAST ARM
836001-04	LIGHT POLE FOUNDATION
838001-01	BREAKAWAY DEVICES

GENERAL NOTES

- 1. NO WORK SHALL BE ALLOWED UNTIL ALL COMPONENTS TO COMPLETE THE LIGHTING SYSTEM INSTALLATION HAVE BEEN DELIVERED.
- 2. EXISTING LIGHTING TO BE REMOVED SHALL REMAIN UNTIL PROPOSED LIGHTING SYSTEM IS OPERATIONAL.
- 3. INSTALL NEW UNIT DUCT IN UNDERGROUND CASING UNDER THE ROADWAY AS SHOWN ON PLANS.
- 4. PROPOSED OFFSETS ARE A NOMINAL 30' FROM EDGE OF LANE. ENGINEER WILL DETERMINE EXACT LOCATIONS.
- 5. SIGNS ATTACHED TO LIGHT POLES SHALL BE REMOVED, PRESERVED AND REINSTALLED. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR REMOVAL OF THE LIGHTING UNIT, NO SALVAGE.
- 6. THE FINISH EARTHWORK SHALL HAVE A VEGETATION-SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED. THIS SOIL WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE LIGHTING PAY ITEMS.

USER NAME - Kiribive Inci	DESIGNED -	REVISED			F.A.P. CORNON	TOTAL SHEET
	DRAWN .	REVISED	STATE OF ILLINOIS	INDEX OF SHEETS, HIGHWAY STANDARDS,	RTE" SECTION	SHEETS NO.
PLOT SCALE = 103 3839 7 in	CHECKED .	REVISED -	DEPARTMENT OF TRANSPORTATION	LEGEND AND GENERAL NOTES	_3005HL-1	ROCK ISLAND 7. 2
PLOT BATE == Nov-22-2022 11:11:25 AM	DATE	REVISED -	DEL MITTIELLE OF THAILOT OF TATION	SCALE: SHEET OF SHEETS STA. TO STA	Inches con	CONTRACT NO 64N69

SCHEDULE OF QUANTITIES

0021 URBAN 80% FED 20% STATE

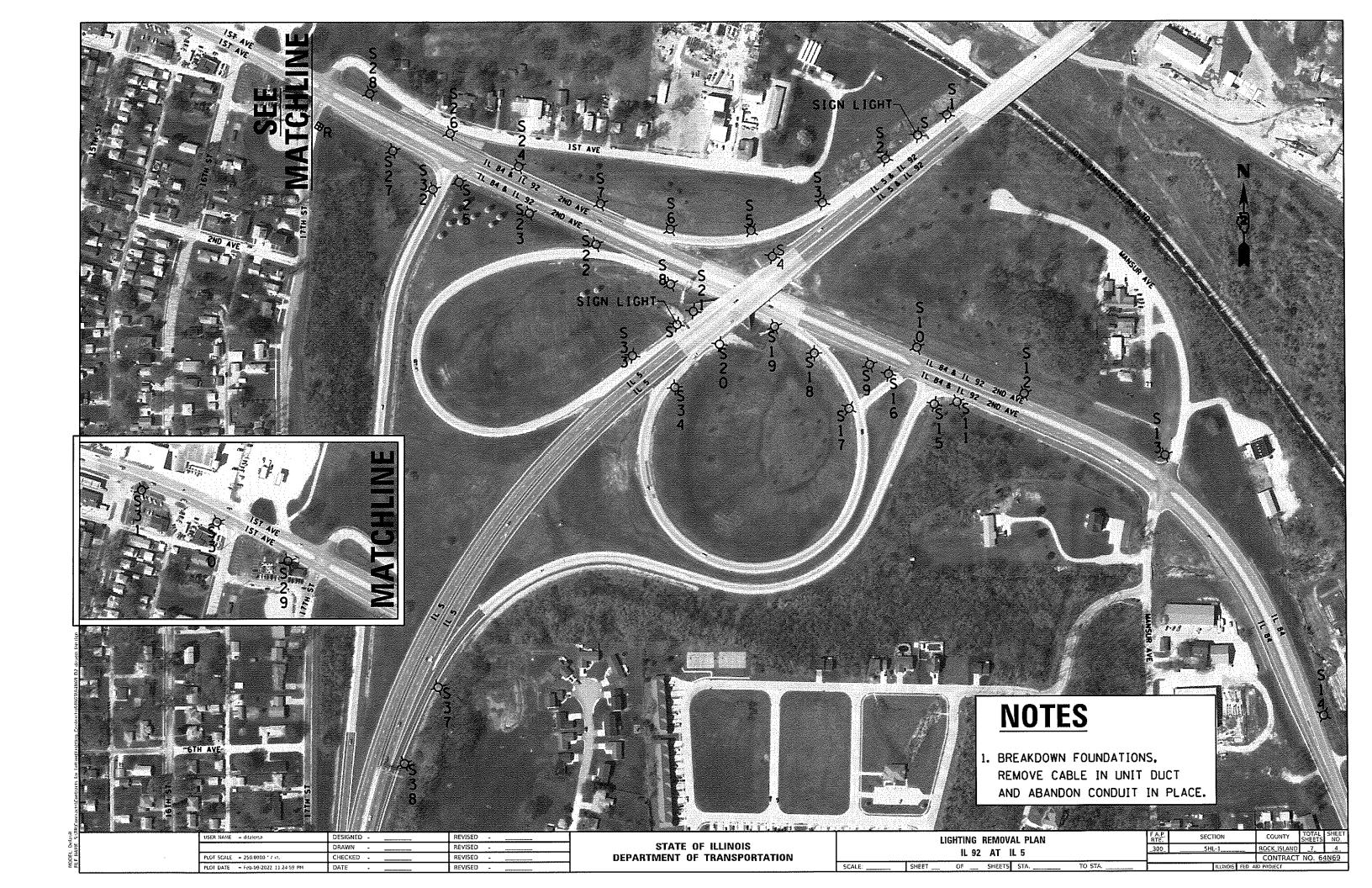
CODE NO.	ITEM	UNIT	TOTAL QUANTITY
67100100	MOBILIZATION	L SUM	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	6
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	715
81603010	UNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	8195
82110008	LUMINAIRE, LED, ROADWAY, OUTPUT. DESIGNATION H	EACH	17
82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1
83060340	LIGHT POLE, GALVANIZED STEEL, 40 FT. M.H., 12 FT. MAST ARM	EACH	17
83600356	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8" X 6'	EACH	17
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	68
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	36
84200804	REMOVAL OF POLE FOUNDATION	EACH	36
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9010
X8420506	REMOVAL OF EXISTING SIGN LIGHTING UNIT WITH NO SALVAGE	EACH	2
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.6

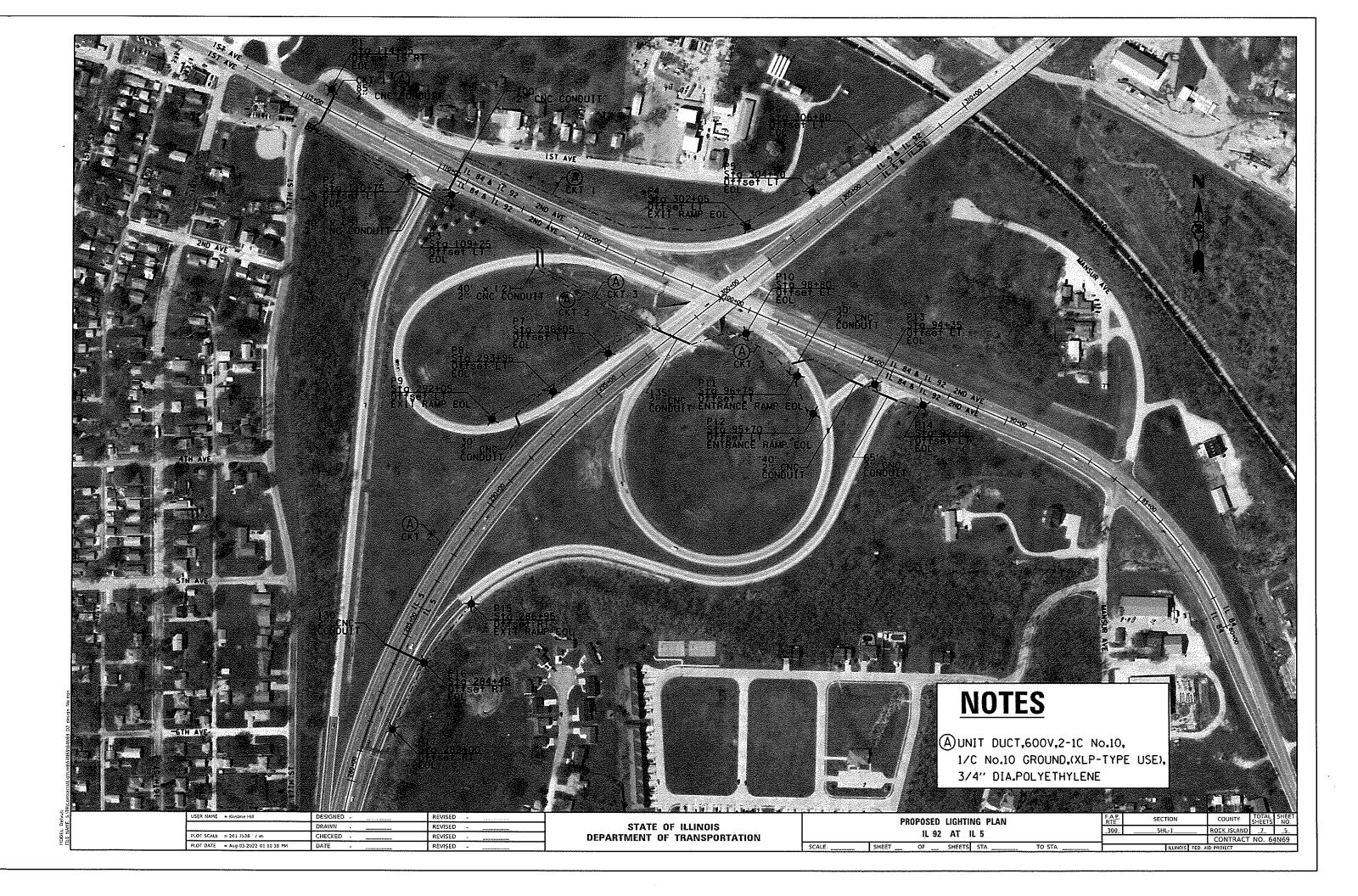
• SPECIALTY ITEMS

USER NAME	Kristine Hill	DESIGNED	-	 REVISED		 100
		DRAWN		REVISED	-	
PLOT SCALE	■ 103 7694 ` / in	CHECKED	-	 REVISED		
PLOT DATE :	2 Aug-03-2022 01 09 58 PM	DATE		REVISED		L

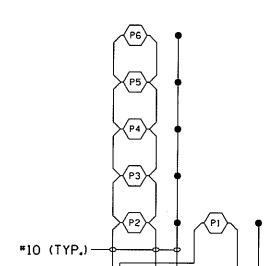
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		SC	HEDULE	OF QUA	ANTITIES
			IL 92	AT I	L 5
200	SCALE	SHEET	OF	SHEETS	STA.





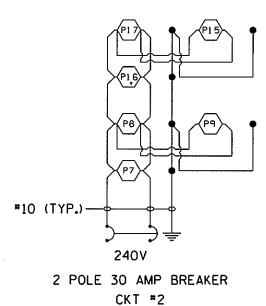
PROPOSED LIGHTING WIRING DIAGRAMS



2 POLE 30 AMP BREAKER CKT #1

240V

PROPOSED LIGHTING CONTROLLER
IL-92 AT IL-5
240V



*10 (TYP.) = 240V

2 POLE 30 AMP BREAKER CKT *3

LEGEND

- (1) PROPOSED LED LUMINAIRE. NUMBER INSIDE CIRCLE INDICATES FIXTURE NUMBER.
- PROPOSED CABLE (SIZE AS NOTED)

NOTES

1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

USER NAME = Kristing Hill	DESIGNED -	REVISED -		PROPOSED LIGHTING WIRING DIAGRAMS	F.A.P. SECTION	COUNTY TOTAL SHEET	÷
	DRAWN -	REVISED -	STATE OF ILLINOIS		300 SHI-1	BOCK ISLAND 7	=
PLOT SCALE = 105.7459 1 / m	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	IL 92 AT IL 5		CONTRACT NO.	á
 PLOT DATE Aug 03 2022 01:11:12 PM	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA TO STA	ILLINOIS FE	D AID PROJECT	-

PROJECT								
DATE	CONTRACT NUI	MBER	SECTION NU	IMBER	COUN	TY		1
6/17/2020	64N68		5HL-1		ROC	K ISLAND		
MARKED ROUTE	NUMBER			MUNI CI PALI	TY			,
IL-92 AT IL-	5			ROCK ISLA	AND			
ROADWAY		•						
LANE WIDTH	OF LANES	EDIAN WIDTH	I.E.S SUF	RFACE CLASS	IFICATION O	-ZERO VALUE		
12	2	N/A	R3		0. 07			
STRUCTURE			NUMBER OF					
MOUNTING HEIG		SET BACK		& SIGN LIGH	HTING ONLY)			
40 F1	12 FT	30 FT	N/A					
LUMI NAI RE								
DESCRIPTION				I.E.S. LA	TERAL DISTRI	BUTION I	.E.S. VERTICAL D	I STRI BUTI ON
LED. ROADWAY	. OUTPUT DESIG	CNATION H		TYPE III			MEDI UM	
TOTAL LIGHT L	OSS FACTOR (LI	F) BUG RATI	NG		SHI ELDS		DI MMING PROT	COL
0.7		U = 0			N/A		0-10V	
PERFORMANCE AVERAGE ILLUM 0.6		3	IFORMITY RA					
AVERAGE LUMIN	ANCE, LAVE (CD/		TY RATIO. L	AVE /LHIN		RATIO. LMAX /LMIN		NANCE RATIO, Ly/LMIN
N/H		N/A			N/A		0.4:1	
LIGHT TRESSP DISTANCE TO RE		.E) MAX. HOR	IZONTAL ILL	UMI NANCE A	T ROW, E	MAX. VERTICAL I	LLUMINANCE AT RO	<u>₩. E</u>
N/A		N/A				N/A		
FROM T 2. LIGHTI 3. TOTAL	HE SIGN TO TH	E LUMINAIRE. NS SHALL BE CTOR (LLF) =	PERFORMED W	/]TH ALL LU	MINAIRES OR	ENTED TOWARD AN	D PERPENDI CULAR	ND HORIZONTAL DISTANI TO ROADWAY. ION' (LDD) = 0.8, ANI
4. PERFOR BASED	MANCE REOUIRE ON THE GIVEN (MENTS SHALL CONDITIONS A	BE THE MINI BOVE.	MUM ACCEPT	ABLE STANDAI	RDS OF PHOTOMETR	IC PERFORMANCE F	OR THE LUMINAIRE,
CALCULATIONS	SHALL BE PERF	DRMED WITH 2	LANES IN C	ONE DIRECTI	ON ONLY			
INITIAL LUMEN	S MAY EXCEED ED (BDE)" (29	THE VALUES (5, 200 LUMEN	GIVEN IN TAE	BLE IN ART.	1067.06 OF	THE PROJECT SPE	CIAL PROVISIONS	
PERFORMANCE C	RITERIA SHALL	BE HELD TO	ONE SIGNIFI	CANT DIGIT				

LUMINAIRE PERFORMANCE TABLE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION