ROADWAY LIGHTING LEGEND

SYMBOLS			DESCRIPTION
EXISTING	REMOVAL	PROPOSED	
NOMINAL MOUNTING HEIGHT		40	TYPE L-MG-40 LIGHTING STANDARD WITH POLE TOP TYPE P2 TOP LUMINAIRE AND MOUNTED ON TYPE I JUNCTION BOX FOUNDATION
		40	TYPE L-MG-40-SB LIGHTING STANDARD WITH POLE TOP TYPE P2 LUMINAIRE WITH SHOE BASE, MOUNTED TO LIGHTING BLISTER.
			LIGHTING STANDARD ASSEMBLY, TYPE L-8-40-CF-Y WITH TYPE 3 CUTOFF NJDOT CONVENTIONAL LUMINAIRE AND JUNCTION BOX FOUNDATION (SEE NJDOT STD ELECTRICAL DETAILS L-01 & L-04)
			LIGHTING STANDARD ASSEMBLY, TYPE L-15-40-CF-X OR L-15-40-CF-Y UNLESS OTHERWISE NOTED WITH TYPE 3 CUTOFF NJDOT CONVENTIONAL LUMINAIRE AND JUNCTION BOX FOUNDATION (SEE NJDOT STD ELECTRICAL DETAILS L-01 & L-04)
	26	26	TYPE L-MG2-26 LIGHTING STANDARD WITH TWO POLE TOP TYPE P2 LUMINAIRES AND MOUNTED ON TYPE I JUNCTION BOX FOUNDATION
			LIGHTING STANDARD ASSEMBLY, TYPE L-E-S-40-CF-Y WITH TOP MOUNT MONGOOSE LUMINAIRE MOUNTED AT 40 FEET ABOVE ROADWAY AND JUNCTION BOX FOUNDATION (SEE DETAIL SHEET ATTACHED)
			TYPE L-HR8-100 HIGH MAST LIGHTING STANDARD WITH RING ASSEMBLY LOWERING DEVICE, 8-400W HPS TYPE 5 LUMINAIRES, MOUNTED ON CUSTOM FOUNDATION
			RELOCATED EMERGENCY LUMINAIRE
			TYPE W UNDERBRIDGE LUMINAIRE (WALL MOUNTED) (NJTA)
			LIGHTING ARM ASSEMBLY ON A UTILITY POLE
			METER CABINET FOUNDATION (SEE NJDOT STD ELECTRICAL DETAIL L-07)
	R	R	TYPE 2 LIGHTING STANDARD WITH 8' ARM, 30' MOUNTING HEIGHT AND TYPE B LUMINAIRE ON TYPE II CONCRETE BASE
			JUNCTION BOX FOUNDATION (SEE NJDOT STD ELECTRICAL DETAIL L-05)
			18"x 36" JUNCTION BOX (SEE NJDOT STD ELECTRICAL DETAILS L-05 & L-06)
			JUNCTION BOX FOUNDATION, TYPE I (NJTA)
			TYPE C CONCRETE JUNCTION BOX (NJTA)
			TYPE D JUNCTION BOX ON STRUCTURE (NJTA)
			ROADWAY LIGHTING MANHOLE
			FIXED SURVEILLANCE CAMERA
			PAN TILT ZOOM SURVEILLANCE CAMERA
14-1-A P3-250-60		14-1-A P3-250-60	14 - LUMINAIRE NUMBER 1 - CIRCUIT NUMBER A - PHASE CONNECTION (NOT SHOWN FOR SINGLE PHASE WIRING) P3 - LUMINAIRE TYPE (NOT SHOWN FOR NJDOT LIGHTING CONVENTIONAL LUMINAIRES) 250 - LUMINAIRE WATTAGE 60 - DEGREE OF TILT
2"- 4 #2 RH-(1, 2)		2"- 4 #2 RH-(1, 2)	2" - CONDUIT (SYMBOL NOT SHOWN FOR 3" SIZE) 4 - NUMBER OF CABLES #2 - SIZE OF CABLE IN AWG (1, 2) - CIRCUIT NUMBERS RH - LOAD CENTER (BLANK) - INTERCHANGE 16W PANEL
EXISTING		PROPOSED	
			3" RIGID NONMETALLIC CONDUIT, PVC-SCH 40 (NJTA)
			3" RIGID NONMETALLIC CONDUIT, PVC SCH 80 (NJTA)
			3" RIGID METALLIC CONDUIT, ON STRUCTURE (NJTA)
			1½" PVC COATED GALVANIZED CONDUIT, EXPOSED (NJTA, UNDERBRIDGE ITEM)
			3" RIGID NONMETALLIC CONDUIT (NJDOT)
			TYPICAL LUMINAIRE TYPE DESIGNATION

LIGHTING STANDARD — TWIN — ACCESSORIES OR MODIFIERS

-8-40-T-SB-...

LUMINAIRE MOUNTING TYPE — NOMINAL LUMINAIRE MOUNTING HEIGHT FROM BASE — SHOE BASE

ROADWAY LIGHTING ABBREVIATIONS

A	AMPS
AWG	AMERICAN WIRE GAUGE
C.I.	CAST IRON
CKT/S	CIRCUIT/S
CONC.	CONCRETE
CUG	CONDUIT UNDER GROUND
CUR	CONDUIT UNDER ROAD
EB	EAST BOUND
FT	FEET
GND	GROUND WIRE
HPS	HIGH PRESSURE SODIUM
HT	HEIGHT
IN	INCHES
JB	JUNCTION BOX
JBF	JUNCTION BOX FOUNDATION
KW	KILOWATT
LAA	LIGHTING ARM ASSEMBLY
LSA	LIGHTING STANDARD ASSEMBLY
LC	LOAD CENTER
LS	LUMP SUM
LT	LEFT
LTG	LIGHTING
MC	METER CABINET
MH	MANHOLE
MHL	METAL HALIDE
MM	MILLIMETERS
MTG	MOUNTING
NEC	NATIONAL ELECTRICAL CODE
NJDOT	NEW JERSEY DEPARTMENT OF TRANSPORTATION
NJTA	NEW JERSEY TURNPIKE AUTHORITY
N.T.S.	NOT TO SCALE
P.F.	POWER FACTOR
PTZ	PAN TILT ZOOM
RH	RAMP H
RL	ROADWAY LIGHTING
RMC	RIGID METALLIC CONDUIT
RNMC	RIGID NONMETALLIC CONDUIT
RS	RADIO STATION
RT	RIGHT
SBM	SHOE BASE MOUNT
SDWK	SIDEWALK
STA.	STATION
STD	STANDARD
T.B.R.	TO BE REMOVED
TYP	TYPICAL
V	VOLT
W	WATT
WB	WEST BOUND

(FOR UTILITIES AND DRAINAGE LEGENDS SEE GENERAL LEGEND)

GENERAL NOTES

1. THE CONTRACTOR SHALL STAKE OUT ALL CONDUIT RUNS, JUNCTION BOXES, FOUNDATIONS FOR THE ENGINEER'S APPROVAL PRIOR TO THE INSTALLATION.
2. THE CONTRACTOR IS HEREBY ADVISED THAT THERE ARE NUMEROUS EXISTING ROADWAY LIGHTING AND COMMUNICATION CONDUITS, CABLES AND OTHER UTILITY FACILITIES IN THE AREAS UNDER CONSTRUCTION IN THIS CONTRACT THAT ARE NEEDED FOR THE INTERIM/FINAL CONDITIONS. ANY SUCH FACILITIES DAMAGED OR DISTURBED AS A RESULT OF THIS WORK SHALL BE REPLACED AND OR REPAIRED TO THE ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR AND AT NO ADDITIONAL COST TO TO THE AUTHORITY OR THIS CONTRACT.
3. THE CONTRACTOR SHALL ONLY SPLICE IN POLE BASES AND JUNCTION BOXES.
4. INFORMATION ABOUT EXISTNG FACILITIES HAS BEEN OBTAINED FROM EXISTING AVAILABLE PLANS. FOR MORE INFORMATION ON EXISTING FACILITIES, CONTRACTOR SHALL OBTAIN AS-BUILT PLANS FROM THE TURNPIKE AUTHORITY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING LIGHTING FACILITIES IN THE FIELD PRIOR TO START OF HIGHWAY LIGHTING CONSTRUCTION. THE COST OF FIELD VERIFICATION IS INCIDENTAL TO ELECTRICAL BID ITEMS AND NO SPECIFIC PAYMENT FOR FIELD VERIFICATIONS WILL BE MADE. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR FURTHER ACTION.
5. REMOVE/ABANDON THE EXISTING LIGHTING FACILITIES, WHICH ARE NOT PART OF THE PROPOSED PERMANENT LIGHTING DESIGN, UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
6. NO SPECIFIC PAYMENT WILL BE MADE FOR REMOVING/ABANDONING EXISTING HIGHWAY LIGHTING FACILITIES UNLESS OTHERWISE SHOWN ON THE PLANS. ALL COST SHALL BE INCLUDED INTO BID PAY ITEM EITHER "ROADWAY EXCAVATION" OR "REMOVE AND SALVAGE EXISTING FACILITIES".
7. FOR CONSTRUCTION AND PAYMENT OF LIGHTING BLISTERS, SEE BRIDGE PLANS.
8. CONDUIT SYMBOL SHOWN IS FOR 3 INCHES SIZE UNLESS OTHERWISE NOTED.
9. CONDUIT SYMBOLS MAY NOT BE VISIBLE FOR SHORT CONDUIT RUNS. IN SUCH CASES, TYPE AND SIZE ARE NOTED.
10. REFER TO NJDOT STANDARD ELECTRICAL DETAILS AND SPECIFICATIONS FOR ALL ELECTRICAL EQUIPMENT REMOVAL AND INSTALLATION ON THE ROADWAY OTHER THAN NEW JERSEY TURNPIKE RAMPS AND PLAZA.
11. REFER TO NJ TURNPIKE AUTHORITY ELECTRICAL STANDARDS AND SPECIFICATIONS FOR ALL ELECTRICAL EQUIPMENT REMOVAL AND INSTALLATION ON NEW JERSEY TURNPIKE RAMPS AND PLAZA.
12. FOR JURISDICTION LIMITS, REFER TO JURISDICTIONAL LIMIT MAP PLANS.
13. DURING CONSTRUCTION SEQUENCE, CONTRACTOR SHALL MAINTAIN ALL EXISTING LIGHTING STANDARDS UNTIL THEIR REPLACEMENT OF PROPOSED LIGHTING IS OPERATIONAL. IF DURING THE CONSTRUCTION SEQUENCE, IT IS NECESSARY TO REMOVE PART OF EXISTING WIRING SYSTEM, CONTRACTOR SHALL PROVIDE TEMPORARY WIRING TO THOSE EFFECTED LIGHTING UNITS IN ORDER TO MAINTAIN THE EXISTING LIGHTING IN OPERATION UNTIL THEIR REPLACEMENT OF PERMANENT LIGHTING IS IN PLACE AND OPERATIONAL. INTALLATION OF TEMPORARY WIRING SHALL MEET THE NJ TURNPIKE AUTHORITY ELECTRICAL STANDARDS AND NEC. ALL COST RELATED TO PROVIDING TEMPORARY WIRING TO EXISTING LIGHTING SHALL BE INCLUDED INTO LUMP SUM PRICE OF BID PAY ITEM "REMOVE AND SALVAGE EXISTING FACILITIES".
14. CONTRACTOR SHALL NOT DISTURB ANY EXISTING LIGHTING TO REMAIN. EXISTING LIGHTING SHALL BE OPERATIONAL CONTINUOUSLY DURING NIGHT TIME HOURS AND INCLEMENT WEATHER, UNLESS OTHERWISE NOTED ON THE PLANS (SEE SPECIFICATIONS).

TABLE I

SIGN SUPPORT NUMBER	GO SIGN NUMBER	NUMBER OF FIXTURES	DIMENSION (MM)				
			TILT (DEGREES)	SPACE "A"	SPACE "B"	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT
CA-1 (0204-220)	GO-7	2	0	13'-2"	3'-2"	19'-7"	7'-11"
CA-2 (0204-221)	EXIST. PNL	3	0	7'-7"	1'-11"	19'-0"	12'-0"

PHOTOMETRIC DATA TABLE II
ILLUMINATION REQUIREMENTS

GO SIGN NUMBER	AVE. FC	MAX. FC	MIN. FC	UNIFORMITY RATIO MAX.÷ MIN.	SIZE OF SIGN (MM) WIDTH	SIZE OF SIGN (MM) HEIGHT
GO-7	26.92	40.95	14.62	2.8:1	19'-7"	7'-11"
EXIST. PNL	33.18	55.74	12.99	4.3:1	19'-0"	12'-0"

SIGN LIGHTING REQUIREMENTS

	BY	DATE
MADE	XXX	XX-XX-XX
TRACED	XXX	XX-XX-XX
CHECKED	XXX	XX-XX-XX
SUPERVISED	X.XXXX	

No.	DATE	REVISION

0 — ½ — 1 — 2 — 3 — 4

ORIGINAL SIZE IN INCHES

RL-1 / RL-9

NEW JERSEY TURNPIKE AUTHORITY

ROADWAY NAME

PROJECT DESCRIPTION

CONTRACT NO.

ROADWAY LIGHTING LEGEND AND GENERAL NOTES -1-

NAME OF CONSULTANT
ADDRESS
CERTIFICATE OF AUTHORIZATION NO. XXXXXXXX

JOHN DOE
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. XXXXXXXXXX

SCALE: NONE
DATE: MAY 2008

31
69

ORIGINAL SHEET — SAMPLE PLAN REVISION

0 — 5-08 — DATE — No.

FILE NAME: XXXX