PROJECT	DESIGNATION
1383332	See Below
CONTRACT	
Range 37053	

DES. NO.	ROADWAY DESCRIPTION
1383332	I-69 Added Travel Lanes S.R. 37 to Exit 210
1383336	Section A2
1383337	Section C
1383489	I-69/Campus Parkway Interchange Modification

DES. NO.	STRUCTURE DESCRIPTION
1383486	(I69-6-05313 DNBL, I-69 NB over Sand Creek)
1383487	(I69-6-05313 DSBL, I-69 NB over Sand Creek)
1006439	(I69-29-08.80, Small Structure at Sta. 489+99.60 "A")
1383488	(I69-8-05315 B, Brooks School Road over I-69)
1383509	(I69-6-05318 DNBL, I-69 NB over Mud Creek)
1383510	(I69-6-05318 DSBL, I-69 NB over Mud Creek)
1006512	(I69-6-05320 DNBL, I-69 NB over Thorpe Creek)
1383513	(I69-6-05320 DSBL, I-69 NB over Thorpe Creek)
1006514	(I69-6-05321 DNBL, I-69 NB over SR 13)
1383515	(I69-6-05321 DSBL, I-69 NB over SR 13)
	I-69 NB over Foster Creek
	I-69 NB over Foster Creek

R-37053
SET 4 OF 12

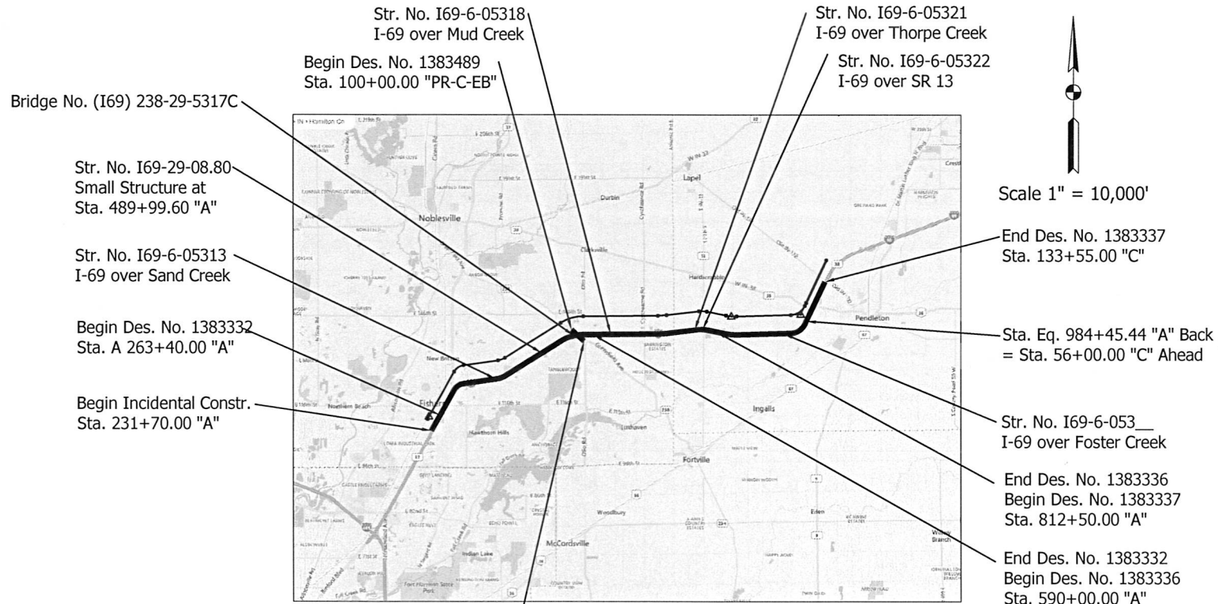
INDIANA DEPARTMENT OF TRANSPORTATION

LIGHTING PLANS

ROUTE: I-69 FROM: RP 204+50 TO: RP 219+50
PROJECT NO. 1383332 P.E.
R/W
1383332 CONST.

This project begins approx. 0.40 mile south of 116th Street at Station 263+40.00 Line "A" (RP 204+50) and ends 0.93 miles north of State Road 38 at Station 133+55.00 Line "C" (RP 219+50) for a project length of approximately 15.55 miles. The project is within Section 1 of Township 17 North, Range 4 East, and Section 6 in Township 17 North, Range 5 East, and Sections 22, 23, 24, 26, 27, 28, 31, 32, 33 of Township 18 North, Range 5 East, and Sections 19, 20, 21, 23, 24 of Township 18 North, Range 6 East, and Sections 17, 18, 19, of Township 18 North, Range 7 East. The project is located in Delaware, and Fall Creek Townships of Hamilton County, and in Green and Fall Creek Townships in Madison County.

Gross Length: 15.546 Miles
Net Length: 15.445 Miles
Maximum Grade: 3.61 %



LOCATION MAP

PROJECT LOCATION SHOWN BY

LAT: 39°59'27" LONG: 85°53'25"

HUC 05120201090040
05120201090010
05120201110040
05120201110030
05120201100130
05120201100090
05120201100080

MajorMoves 2020

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2016
TO BE USED WITH THESE PLANS

UNITED Consulting
1625 N. Post Road
Indianapolis, IN 46219
Phone 317-895-2585
Fax 317-895-2596
www.ucindy.com

MICHAEL A. ROWE REGISTERED No. 10001062 STATE OF INDIANA PROFESSIONAL ENGINEER

PLANS PREPARED BY: _____ PHONE NUMBER

CERTIFIED BY: Michael A. Rowe 9.17.15 08/01/2015 DATE

APPROVED FOR LETTING: _____ INDIANA DEPARTMENT OF TRANSPORTATION DATE

DESIGNATION	
1383332	
SURVEY BOOK	SHEETS
	1 of 8
CONTRACT	PROJECT
R-37053	1383332

UTILITIES

Communication

AT&T Indiana
5858 N. College Ave.
Indianapolis, IN 46220
Brian Cravens 317-252-5003
bc3785@att.com

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3030 Roosevelt Ave.
Indianapolis, IN 46218
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Larry Talbot
Larry.A.Talbot@centurylink.com

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Jeff.taylor@windstream.com

Zayo Bandwidth Indiana, LLC
701 W. Henry St, Suite 201
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Cable TV

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5330 East 65th Street
Indianapolis, IN 46220
Tom Spencer 317-752-9426
tspencer@telecomplacement.com

Sanitary Sewer

Citizens Energy Group
2150 Dr. Martin Luther King Jr. Street
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Tracey Trimpe 317-429-3991
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1 Municipal Drive
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ottot@fishers.in.us

City of Noblesville Sanitary
16 S 10th Street
Noblesville, IN 46060
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Fall Creek Regional Waste District
PO Box 59
Pendelton, IN 46064
Tim McCurdy 765-778-7544
tmccurdy@fcrwd.com

Hamilton Southeastern Utilities
11901 Lakeside Drive
Fishers, IN 46038
Tom Kallio 317-690-1573
tkallio@samcoinc.us

Gas

Citizens Energy Group
2150 Dr. Martin Luther King Jr. Street
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Richard Miller, Jr. 317-927-4684
rmiller@citizensenergygroup.com

Town of Lapel Utilities
PO Box 999
Lapel, IN 46051
Marlin Johnson 765-208-0696
jmj8pt@aol.com

Vectren Energy (Anderson)
2001 Rev Jt Menifee Street
Anderson, IN 46016-3741
Mike Johnson 765-648-3205
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Lighting

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John Beery 317-776-6300
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INDOT Lighting
Prakash Patel 317-233-3702
prpatel@indot.in.gov

Water

Citizens Energy Group
2150 Dr. Martin Luther King Jr. Street
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Mike Picklesimer 317-965-2166
Mpicklesimer@citizensenergygroup.com

Indiana American Water Company
555 East County Line Road Suite 201
Greenwood, IN 46142
Ezat Nayeri 317-885-2447
Ezat.Nayeri@amwater.com

Town of Ingalls
5835 Lawton Loop East Drive
Indianapolis, IN 46216
Lou Savka 317-377-5230
lsavka@triadassoc.net

Storm Water

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Tami Otto 317-595-3160
ottot@fishers.in.us

City of Noblesville
16 S. 10th Street
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John Beery 317-776-6300
Jbeery@noblesville.in.us

Electric

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1619 W. Deffenbaugh St.
Kokomo, IN 46902
Connie Maus 765-454-6180
connie.maus@duke-energy.com

Indianapolis Power & Light
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Indianapolis, IN 46221
Rhonda Williams 317-261-5203
Rhonda.Williams@aes.com

Petroleum

Marathon Pipe Line, LLC
20-C Industrial Drive
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Greg Newman 419-564-8826
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Patrick Taylor 317-997-6419
pattaylor4353@gmail.com

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425 West Randolph
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Alexandra Archer 773-747-4247
Alexandra.Archer@HERE.com

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pivy@indot.in.gov

ITS Technology Deployment Division
8620 East 21st Street
Indianapolis, IN 46219
Konstantin Veygman 317-899-8606
kveygman@indot.in.gov

GENERAL NOTES

XX	All earth shoulders, median areas, and cut and fill slopes shall be plain or mulch seeded except where sodding is specified.

XX Required General Notes

REVISIONS

SHEET NO.	DATE	REVISED

INDEX

SHEET NO.	DRAWINGS INDEX
1	TITLE
2	INDEX & GENERAL NOTES
3-4	PROPOSED LIGHTING PLAN - I-69 & 116TH STREET
5	PROPOSED LIGHTING PLAN - I-69 & CAMPUS/SOUTEASTERN PARKWAY
6	PROPOSED LIGHTING PLAN - I-69 & SR 13
7-8	LIGHTING PLAN SUMMARY TABLES

TRAFFIC DATA		I-69 LINE "A" FROM SR 37 TO SOUTHEASTERN PKWY	I-69 LINE "A" FROM SOUTHEASTERN PKWY TO SR 13	I-69 - LINE "A' AND "C" FROM SR 13 TO SR 38	LINE "116th SB Ramp"	LINE "SR 13"
A.A.D.T.	(2015)	63,440 V.P.D.	56,140 V.P.D.	60,446 V.P.D.	12,350 V.P.D.	12,472 V.P.D.
A.A.D.T.	(2035)	83,850 V.P.D.	66,190 V.P.D.	74,785 V.P.D.	15,670 V.P.D.	18,213 V.P.D.
D.H.V.	(2035)	5,870 V.P.H.	5,296 V.P.H.	4,580 V.P.H.	1,411 V.P.H.	1,329 V.P.H.
DIRECTIONAL DISTRIBUTION		53% NB	49% NB	54% NB	100%	40%
TRUCKS		20% A.A.D.T.	10% A.A.D.T.	18% A.A.D.T.	5% A.A.D.T.	13% A.A.D.T.
		14% D.H.V.	5% D.H.V.	28% D.H.V.	3% D.H.V.	13% D.H.V.
DESIGN DATA						
DESIGN SPEED		70 M.P.H.	70 M.P.H.	70 M.P.H.	35/60 M.P.H.	40 M.P.H.
PROJECT DESIGN CRITERIA		Partial Reconstruction (4R) (Freeway)	Partial Reconstruction (4R) (Freeway)	Partial Reconstruction (4R) (Freeway)	Partial Reconstruction (4R) (Freeway)	3R (Non-Freeway)
FUNCTIONAL CLASSIFICATION		Interstate	Interstate	Interstate	Principal Arterial	State Collector
RURAL/URBAN		Urban (Intermediate)	Rural	Rural	Urban (Intermediate)	Urban (Intermediate)
TERRAIN		Level	Level	Level	Level	Level
ACCESS CONTROL		Full	Full	Full	Full	Full

TRAFFIC DATA		LINE "PR-RAMP SW-E" and LINE "PR-RAMP SW-W"	LINE "PR-RAMP SE-W" and LINE "PR-RAMP SE-E"	LINE "PR-RAMP NE-E" and LINE "PR-RAMP NE-W"	LINE "PR-RAMP NW-E" and LINE "PR-RAMP NW-W"	
A.A.D.T.	(2015)	8,790 V.P.D.	5,980 V.P.D.	5,750 V.P.D.	8,400 V.P.D.	
A.A.D.T.	(2035)	11,450 V.P.D.	7,640 V.P.D.	7,210 V.P.D.	10,700 V.P.D.	
D.H.V.	(2035)	1,650 V.P.H.	800 V.P.H.	800 V.P.H.	1,430 V.P.H.	
DIRECTIONAL DISTRIBUTION		100%	100%	100%	100%	
TRUCKS		2.3% A.A.D.T.	2.2% A.A.D.T.	2.3% A.A.D.T.	2.3% A.A.D.T.	
		0.3% D.H.V.	3.0% D.H.V.	3.0% D.H.V.	0.7% D.H.V.	
DESIGN DATA						
DESIGN SPEED		25 M.P.H.	25 M.P.H.	25 M.P.H.	25 M.P.H.	
PROJECT DESIGN CRITERIA		Reconstruction (Non-Freeway)	Reconstruction (Non-Freeway)	Reconstruction (Non-Freeway)	Reconstruction (Non-Freeway)	
FUNCTIONAL CLASSIFICATION		Principal Arterial	Principal Arterial	Principal Arterial	Principal Arterial	
RURAL/URBAN		Urban (Intermediate)	Urban (Intermediate)	Urban (Intermediate)	Urban (Intermediate)	
TERRAIN		Level	Level	Level	Level	
ACCESS CONTROL		Full	Full	Full	Full	

UNITED Consulting
1625 N. Post Road
Indianapolis, IN 46219
Phone 317-895-2585
Fax 317-895-2596
www.ucindy.com

MATTHEW A. TAYLOR REGISTERED No. 10200109 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 9/15/15 DATE

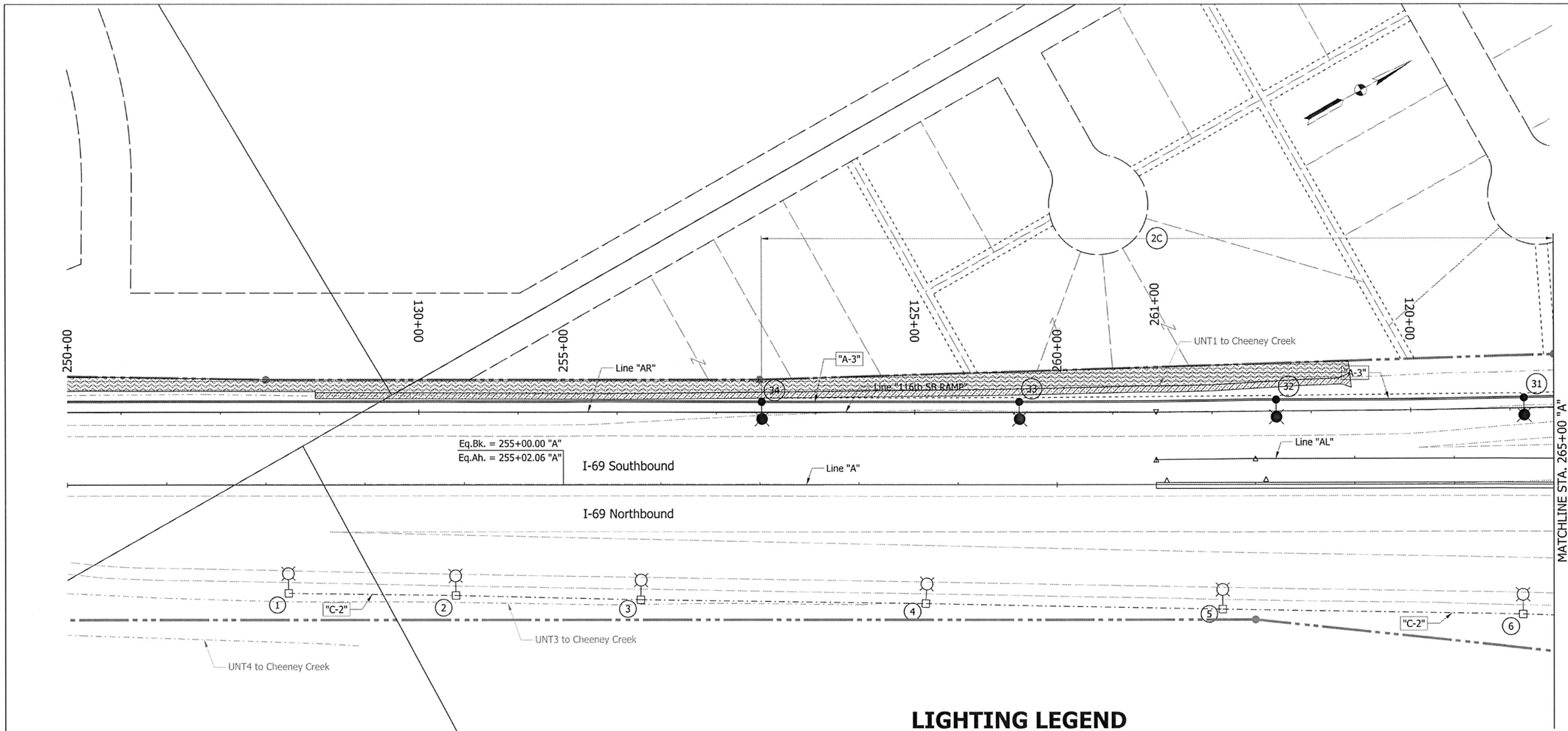
DESIGNED: ATW DRAWN: JNII

CHECKED: MAT CHECKED: MAT

INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX SHEET

SCALE	BRIDGE FILE
N/A	
	DESIGNATION
	1383332
SURVEY BOOK	SHEETS
	2 of 8
CONTRACT	PROJECT
R-37053	1383332



LIGHT POLES

ID NUMBER	STATION	LINE	OFFSET
31	264+70	"A"	86.5' LT
32	262+21	"A"	84.7' LT
33	259+62	"A"	82.7' LT
34	257+02	"A"	82.8' LT

LIGHTING LEGEND

- PROPOSED 400 WATT HPS ROADWAY LUMINAIRE ON ANCHOR BASE (SEE LUMINAIRE TABLE FOR DETAILS)
- PROPOSED 400 WATT HPS ROADWAY LUMINAIRE ON BREAKAWAY TRANSFORMER BASE (SEE LUMINAIRE TABLE FOR DETAILS)
- EXISTING 400 WATT HPS ROADWAY LUMINAIRE ON BREAKAWAY TRANSFORMER BASE (TO REMAIN)
- 6 — EXISTING HIGH MAST LIGHTING TOWER WITH 6-1000 WATT HPS LUMINAIRES OF IES DISTRIBUTION TYPE M-C-III, HAVING OUTPUT CHARACTERISTICS EQUIVALENT TO GE PHOTOMETRIC CURVE 35-177302 OR EQUAL, THREE LUMINAIRES ORIENTED IN SAME COMPASS DIRECTION, THE OTHER THREE IN THE DIRECTION.
- EXISTING LIGHTING HANDHOLE (TYPE AS SHOWN)
- EXISTING CABLE-DUCT MARKER (TO REMAIN)
- EXISTING SERVICE POINT 240/480 VOLT (TYPE AS INDICATED)
- "A-1" — LIGHTING CIRCUIT IDENTIFICATION
- PROPOSED 4-1/C NO. 4 WIRES IN PLASTIC DUCT IN TRENCH
- EXISTING 4-1/C NO. 4 WIRES IN PLASTIC DUCT IN TRENCH (TO REMAIN)
- EXISTING 4-1/C NO. 4 WIRES IN PLASTIC DUCT IN 2 INCH GALVANIZED STEEL CONDUIT (TO REMAIN)
- PROPOSED 4-1/C NO. 4 WIRES IN PLASTIC DUCT IN 2 INCH GALVANIZED STEEL CONDUIT
- XX — SIGN, UNDERPASS, AND ROADWAY LIGHTING IDENTIFICATION NUMBER (SEE NOTES ON LIGHTING PLANS)
- 2C — 2 INCH GALVANIZED STEEL CONDUIT (IN BARRIER WALL)
- RIGHT-OF-WAY

MATTHEW A. TAYLOR — REGISTERED — 10006 — STATE OF INDIANA — PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER — 8/15/19 DATE

DESIGNED: JRS | DRAWN: JNII

CHECKED: MAT | CHECKED: MAT

INDIANA
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
I-69 & 116TH STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
	1383332
SURVEY BOOK	SHEETS
ELECTRONIC	3 of 8
CONTRACT	PROJECT
R-37053	1383332

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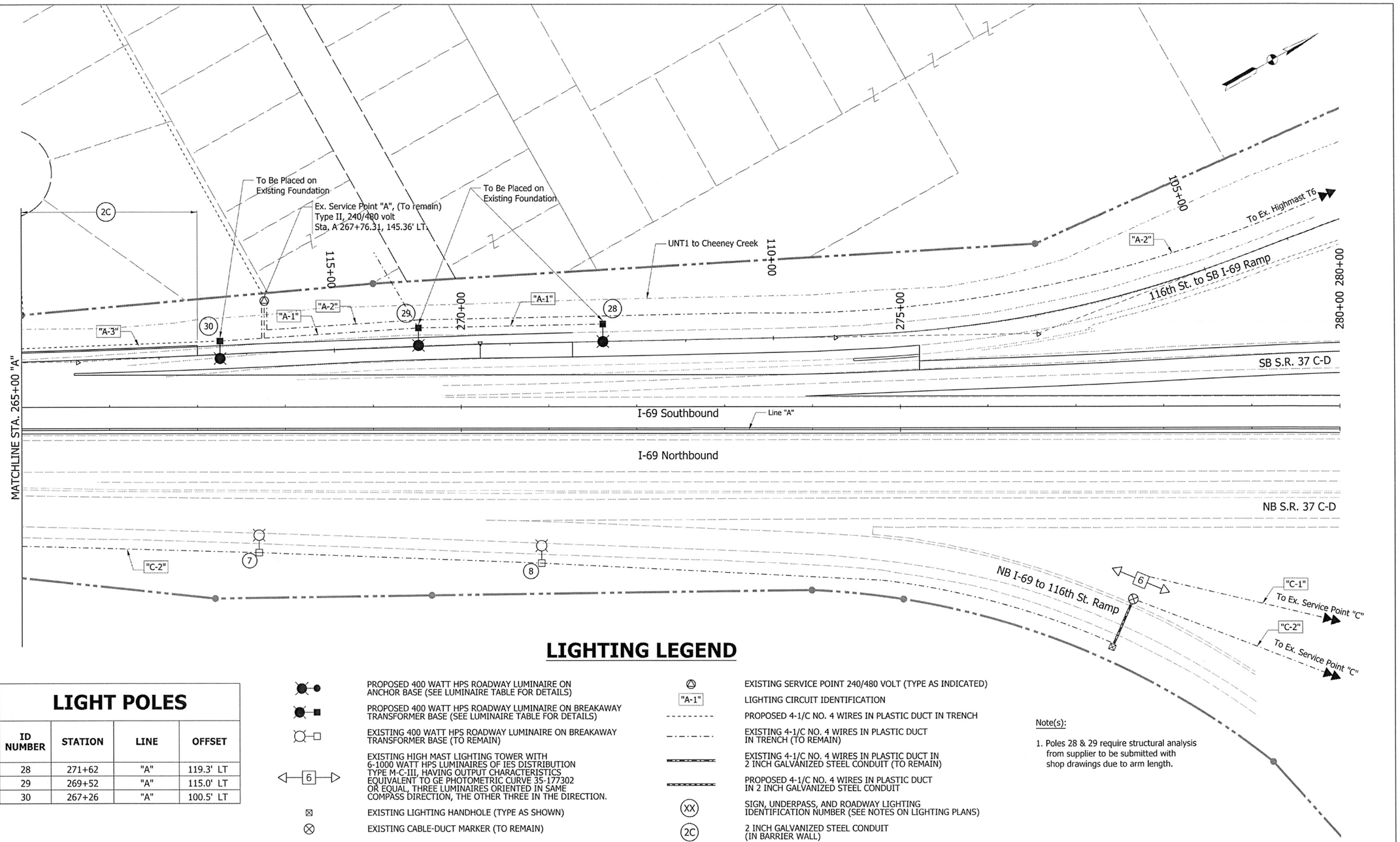

LIGHTING LEGEND

LIGHT POLES			
ID NUMBER	STATION	LINE	OFFSET
28	271+62	"A"	119.3' LT
29	269+52	"A"	115.0' LT
30	267+26	"A"	100.5' LT

- PROPOSED 400 WATT HPS ROADWAY LUMINAIRE ON ANCHOR BASE (SEE LUMINAIRE TABLE FOR DETAILS)
- PROPOSED 400 WATT HPS ROADWAY LUMINAIRE ON BREAKAWAY TRANSFORMER BASE (SEE LUMINAIRE TABLE FOR DETAILS)
- EXISTING 400 WATT HPS ROADWAY LUMINAIRE ON BREAKAWAY TRANSFORMER BASE (TO REMAIN)
- 6 — EXISTING HIGH MAST LIGHTING TOWER WITH 6-1000 WATT HPS LUMINAIRES OF IES DISTRIBUTION TYPE M-C-III, HAVING OUTPUT CHARACTERISTICS EQUIVALENT TO GE PHOTOMETRIC CURVE 35-177302 OR EQUAL, THREE LUMINAIRES ORIENTED IN SAME COMPASS DIRECTION, THE OTHER THREE IN THE DIRECTION.
- EXISTING LIGHTING HANDHOLE (TYPE AS SHOWN)
- EXISTING CABLE-DUCT MARKER (TO REMAIN)
- EXISTING SERVICE POINT 240/480 VOLT (TYPE AS INDICATED)
- "A-1" — LIGHTING CIRCUIT IDENTIFICATION
- PROPOSED 4-1/C NO. 4 WIRES IN PLASTIC DUCT IN TRENCH
- EXISTING 4-1/C NO. 4 WIRES IN PLASTIC DUCT IN TRENCH (TO REMAIN)
- EXISTING 4-1/C NO. 4 WIRES IN PLASTIC DUCT IN 2 INCH GALVANIZED STEEL CONDUIT (TO REMAIN)
- PROPOSED 4-1/C NO. 4 WIRES IN PLASTIC DUCT IN 2 INCH GALVANIZED STEEL CONDUIT
- XX — SIGN, UNDERPASS, AND ROADWAY LIGHTING IDENTIFICATION NUMBER (SEE NOTES ON LIGHTING PLANS)
- 2C — 2 INCH GALVANIZED STEEL CONDUIT (IN BARRIER WALL)

Note(s):

1. Poles 28 & 29 require structural analysis from supplier to be submitted with shop drawings due to arm length.

MATTHEW A. TAYLOR REGISTERED STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE 9/15/15

DESIGNED: JRS | DRAWN: JNII | CHECKED: MAT | CHECKED: MAT

INDIANA DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
I-69 & 116TH STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
	1383332
SURVEY BOOK	SHEETS
ELECTRONIC	4 of 8
CONTRACT	PROJECT
R-37053	1383332

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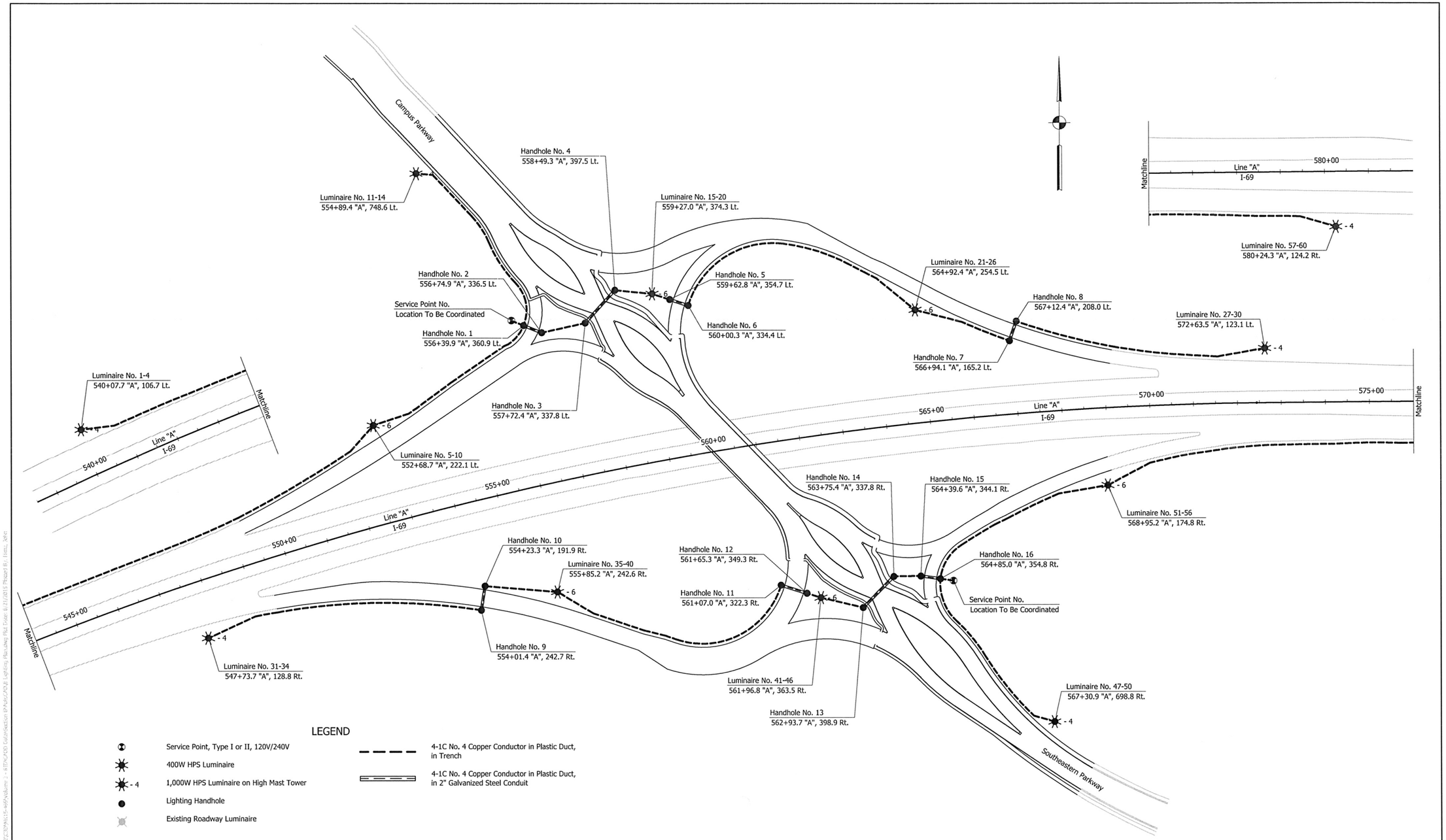
07-MAY-2015



LEGEND

- Service Point, Type I or II, 120V/240V
- 400W HPS Luminaire
- 1,000W HPS Luminaire on High Mast Tower
- Lighting Handhole
- Existing Roadway Luminaire
- 4-1C No. 4 Copper Conductor in Plastic Duct, in Trench
- 4-1C No. 4 Copper Conductor in Plastic Duct, in 2" Galvanized Steel Conduit

MATTHEW A. TAYLOR — REGISTERED — INDIANA — PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE 9/15/15

DESIGNED: JRS | DRAWN: JNI

CHECKED: MAT | CHECKED: MAT

INDIANA
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
I-69 & CAMPUS/SOUTHEASTERN PARKWAY

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	-
VERTICAL SCALE	DESIGNATION
N/A	-
SURVEY BOOK	SHEETS
-	5 of 8
CONTRACT	PROJECT
-	-

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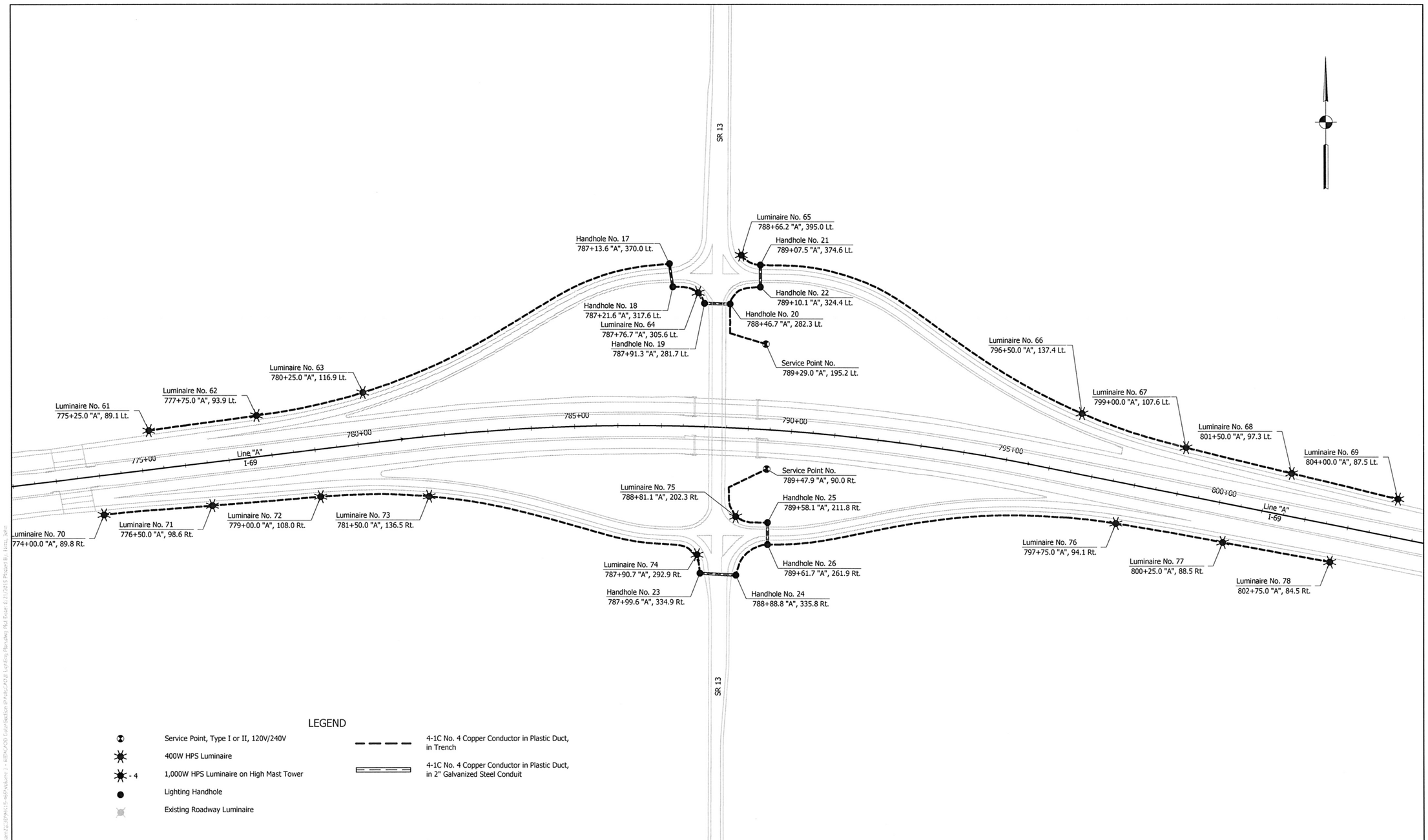


MATTHEW A. TAYLOR REGISTERED INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	9/15/15 DATE	
DESIGNED: JRS	DRAWN: JNII		
CHECKED: MAT	CHECKED: MAT		

INDIANA
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
I-69 & CAMPUS/SOUTHEASTERN PARKWAY

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	-
VERTICAL SCALE	DESIGNATION
N/A	-
SURVEY BOOK	SHEETS
-	6 of 8
CONTRACT	PROJECT
-	-

File Name: V:\DESIGN\Group\Projects\Active\Exam\25-00436\115-660\Volume 2 - HITACHI\DGN Files\Master Files\Campus\CAD\E Lighting Plans\Key Plan.dgn 6/17/2015 Plotted By: Brett, Jake

CONVENTIONAL LIGHT STANDARD & HIGHMAST TOWER - LUMINAIRE TABLE

ID NUMBER		28	29	30	31	32	33	34						
LUMINAIRE ID														
IES DISTRIBUTION TYPE		M-S-III	M-S-III	M-S-III	M-S-III	M-S-III	M-S-III	M-S-III						
POLE SETBACK (FT) FROM:	EDGE OF PAVEMENT	19.8	19.9	16.1	10.7	10.7	10.7	10.7						
* DISTANCE IS SET-FORWARD FROM FRONT OF SIDEWALK	EDGE OF SHOULDER													
	BACK OF CURB													
	BACK OF SIDEWALK													
FOUNDATION TYPE (SEE LEGEND BELOW)		G	G	G	BW	BW	BW	BW						
MOUNTING HEIGHT (MH) (FT)		44	44	42	42	40	40	40						
EDGE OF PAVEMENT (EP) ELEVATION (FT)														
TOP OF FOUNDATION ELEVATION (FT)														
ELEVATION VARIANCE (FT) (FROM EP ELEVATION)		-0.9	-0.9	-0.9	3.4	3.4	3.4	3.4	NOTE: ELEVATION VARIANCE ASSUMED BASED ON ESTIMATED VALUES.					
EFFECTIVE MOUNTING HEIGHT (EMH) (FT) **		44	44	42	38	36	36	36						
MAST ARM LENGTH (FT)		30	30	20	15	10	5	5						
LUMINAIRE TILT (DEGREES)		0	0	0	0	0	0	0						
CIRCUIT NUMBER		"A-1"	"A-1"	"A-3"	"A-3"	"A-3"	"A-3"	"A-3"						
CIRCUIT CONNECTION (RED OR BLACK)		R	B	R	B	R	B	R						
CONNECTION TYPE (PER E807-LTWR-01)		1	2	2	2	2	2	1						
ORIENTATION ANGLE (SEE DETAIL)		0°	0°	0°	0°	0°	0°	0°						
ORIENTATION REF. LINE (SEE LEGEND & DETAIL)		EP	EP	EP	EP	EP	EP	EP						
EXIT NO. (FOR IDENTIFICATION NUMBERING IF		205	205	205	205	205	205	205						

** USE EFFECTIVE MOUNTING HEIGHT (EMH) TO DETERMINE POLE HEIGHT REQUIRED

FOUNDATION TYPES:
G = LIGHT STANDARD FOUNDATION, 3 FT. DIA. X 8 FT. (GROUND MOUNTED)
BW = BARRIER WALL (SHOULDER)
HM = HIGHMAST FOUNDATION, 4 FT. DIA. X 20 FT.

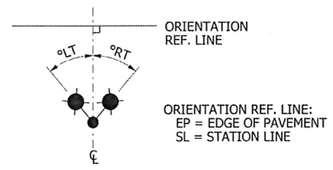
DESIGN DATA

INITIAL LAMP LUMENS (LL) FOR 400 WATT HPS	51,000
INITIAL LAMP LUMENS (LL) FOR 1000 WATT HPS	140,000
AVERAGE MAINTAINED HORIZONTAL ILLUMINANCE (Eh)	0.8 fc
MINIMUM HORIZONTAL ILLUMINANCE	0.2 fc
LAMP LUMEN DEPRECIATION FACTOR (LLD)	0.90
LUMINAIRE DIRT DEPRECIATION (LDD)	0.87
MAINTENANCE FACTOR (LLD * LDD)	0.78
AVERAGE / MINIMUM UNIFORMITY RATIO	4.0 : 1
PERCENTAGE VOLTAGE DROP ALLOWED	10%
MOUNTING HEIGHT (MH) (CONVENTIONAL - UNLESS NOTED OTHERWISE)	40 FT.
MOUNTING HEIGHT (MH) (HIGHMAST)	125 FT.
MAST ARM LENGTH	VARIES
EFFECTIVE MOUNTING HEIGHT (CONVENTIONAL)	VARIES
LUMINAIRE CLASSIFICATION (CONVENTIONAL)	M-S-III
LUMINAIRE CLASSIFICATION (HIGHMAST)	M-C-III

LUMINAIRE IDENTIFICATION

29-69-37-28

- 28 — LUMINAIRE ID No. (SEE "ID NUMBER" TABLE HEADING)
- 37 — CROSS STREET, S.R. 37
- 69 — MAINLINE, I-69
- 29 — COUNTY, HAMILTON



ORIENTATION REF. LINE:
EP = EDGE OF PAVEMENT
SL = STATION LINE

ORIENTATION DETAIL

MATTHEW A. TAYLOR REGISTERED PROFESSIONAL ENGINEER INDIANA

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER — DATE 9/15/15

DESIGNED: JRS | DRAWN: JNII

CHECKED: MAT | CHECKED: MAT

INDIANA
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN SUMMARY TABLES
I-69 & 116TH STREET

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1383332
SURVEY BOOK	SHEETS
ELECTRONIC	7 of 8
CONTRACT	PROJECT
R-37053	1383332

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07-MAY-2015

LUMINAIRE SCHEDULE

Service Point Number	Service Point 1																													Service Point 2																
Luminaire ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
HPS Luminaire Wattage	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Connection Type	1	1	1	1	2	2	2	2	2	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
Circuit Connection	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R
Mounting Height (Ft)	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
Breakaway Foundation	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Service Point Number	Service Point 2 (Cont.)														Service Point 3										Service Point 4																					
Luminaire ID	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78															
HPS Luminaire Wattage	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400															
Connection Type	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	2	2	2	1	2	2	2	1	1	2	2	2	2	2	2	2	1															
Circuit Connection	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	R	B	B	R	B	R	B	R	B	R	B															
Mounting Height (Ft)	130	130	130	130	130	130	130	130	130	130	130	130	130	130	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40															
Breakaway Foundation	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y															

HANDHOLE SCHEDULE

Service Point Number	Service Point 1								Service Point 2							
Handhole No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	14	15
Connection Type	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C
Service Point Number	Service Point 3						Service Point 4									
Handhole No.	17	18	19	20	21	22	23	24	25	26						
Connection Type	A	A	A	B	B	A	A	A	A	B						

DESIGN DATA TABLE

Initial Lamp Lumen (LL) 1000 Watt HPS	140,000
Initial Lamp Lumen (LL) 400 Watt HPS	51,000
Avg. Maintained Illimination (Eh) - I-69	0.8 Footcandles
Avg. Maintained Illimination (Eh) - Campus Parkway	1.2 Footcandles
Lamp Lumen Depreciation Factor (LLD)	0.89
Luminaire Dirt Depreciation Factor (LDD)	0.87
Maintenance Factor (LLD x LDD)	0.77
Uniformity Ratio	4:1
Luminaire Classification, Conventional	Type III

SERVICE POINT AMPERAGE TABLE

No.	Main Breaker	Branch Circuit	Computed Branch Circuit Average	Branch Circuit Breaker Rating
1	100 Amps	Red	_._ Amps	30 Amps
		Black	_._ Amps	30 Amps
2	100 Amps	Red	_._ Amps	30 Amps
		Black	_._ Amps	30 Amps
3	100 Amps	Red	_._ Amps	30 Amps
		Black	_._ Amps	30 Amps
4	100 Amps	Red	_._ Amps	30 Amps
		Black	_._ Amps	30 Amps

MATTHEW A. TAYLOR REGISTERED 10679 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE: 9/15/15

DESIGNED: JRS | DRAWN: JNII

CHECKED: MAT | CHECKED: MAT

INDIANA
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN SUMMARY TABLES
I-69 @ CAMPUS/SOUTHEASTERN PKY & I-69 @ SR 13

HORIZONTAL SCALE	BRIDGE FILE
N/A	-
VERTICAL SCALE	DESIGNATION
N/A	-
SURVEY BOOK	SHEETS
-	8 of 8
CONTRACT	PROJECT
-	-

File Name: N:\DGN\Signals\PlotTrans*2D\Misc\I-69\Lighting Plan.dwg Plot Date: 9/11/2015 Plotted By: Jintz, Kyle