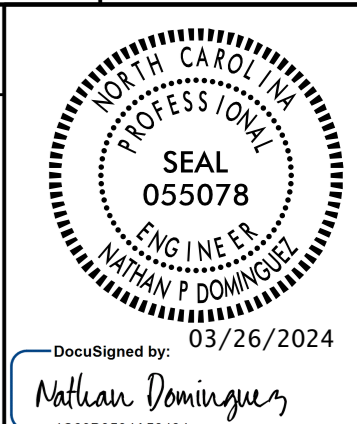


PLANS AND DETAILS FOR PROPOSED LIGHTING /ELECTRICAL CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



GENERAL NOTES

- CIRCUIT AND JUNCTION BOX LOCATIONS MAY BE FIELD ADJUSTED AS REQUIRED TO STAY WITHIN THE LIMITS OF CONSTRUCTION, WITHIN RIGHT-OF-WAY, OUT OF DITCH LINES, AWAY FROM FENCE POSTS, GUARDRAILS AND CABLE GUIDERAILS, AND TO CLEAR OBSTRUCTIONS. ADJUSTMENTS RESULTING IN AN OVERALL INCREASE OF 3% OR MORE TO ANY CIRCUIT LENGTH REQUIRES APPROVAL FROM THE ENGINEER.
- LOCATE ALL JUNCTION BOXES OUTSIDE CLEAR ZONE AND IN AN AREA UNLIKELY TO BE USED BY TRAFFIC.
- ALL IN GROUND JUNCTION BOXES DEPTHS SHALL BE 18" UNLESS OTHERWISE NOTED. SEE DETAIL SHEETS FOR FORMED OPENING DEPTHS.
- CONTRACTOR SHALL RECORD THE GPS COORDINATES OF EACH JUNCTION BOX WITHIN 3' ACCURACY, IN THE JUNCTION BOX SUMMARY, TABLE "C". PROVIDE A COPY OF THE JUNCTION BOX SUMMARY WITH THESE COORDINATES TO THE LIGHTING ENGINEER DURING PROJECT INSPECTION. COORDINATES ARE NOT REQUIRED FOR FORMED OPENINGS.
- JUNCTION BOXES SHOWN NEAR LIGHT STANDARDS (LSJB & HMJB) ARE SHOWN FOR CLARITY. THESE JUNCTION BOXES ARE TO BE USED AS A TEE POINT FOR CIRCUITRY TO THE STANDARD, AND SHALL BE INSTALLED FOR BEST ALIGNMENT OF CIRCUITRY WHILE MAINTAINING THE OFFSETS SHOWN IN TABLE "C". SEE STANDARD DRAWINGS 1401.01 AND 1406.01 FOR INSTALLATION DETAILS.
- INSTALL ALL BORE PITS OUTSIDE THE CLEAR ZONE, AS DEFINED BY THE 2011 AASHTO ROADSIDE DESIGN GUIDE OR AS DIRECTED BY THE ENGINEER.
- INSTALL RIGID GALVANIZED CONDUIT (RGC) ABOVE GROUND, AND POLYVINYL CHLORIDE (PVC) SCHEDULE 40 CONDUIT UNDERGROUND, EXCEPT AS MODIFIED ON THESE PLANSHEETS OR IN APPLICABLE SECTIONS OF THE ROADWAY STANDARD DRAWINGS FOR THIS PROJECT.
- EXISTING JUNCTION BOXES ARE TO BE REMOVED AND DISPOSED OF IN A MANNER THAT IS ACCEPTABLE TO THE ENGINEER.

SCOPE OF WORK

MAINTAIN SERVICE OF EXISTING ROADWAY LIGHTING SYSTEM. RELOCATE HM3. REPLACE EXISTING UNDERGROUND CIRCUITRY AND JUNCTION BOXES IN CONFLICT WITH CONSTRUCTION.

DESIGN CRITERIA

- 0.8 AVERAGE FOOTCANDLE ON TRAVEL LANES
- 4:1 AVERAGE TO MINIMUM UNIFORMITY RATIO ON TRAVEL LANES
- 2018 AASHTO ROADWAY LIGHTING DESIGN GUIDE
- 2020 NATIONAL ELECTRICAL CODE
- 2011 AASHTO ROADSIDE DESIGN GUIDE
- 2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 6TH EDITION AND LATEST INTERIM SPECIFICATIONS VALID AT THE TIME OF LETTING (HANDHOLE SHAFT DIAMETER REQUIREMENT AND HANDHOLE PLACEMENT REQUIREMENT WAIVED)

ROADWAY STANDARDS

THE FOLLOWING ROADWAY ENGLISH STANDARDS AS APPEAR IN "NCDOT ROADWAY STANDARD DRAWINGS", ROADWAY DESIGN UNIT-N.C. DEPARTMENT OF TRANSPORTATION RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD NO.	TITLE
1409.01	ELECTRICAL DUCT
1410.01	FEEDER CIRCUITS
1411.01	ELECTRICAL JUNCTION BOXES

ALL WORK SHALL BE IN CONFORMANCE WITH DIVISION 14 OF THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, DATED JANUARY 2024.

LEGEND

- PROPOSED 120' HIGH MAST STANDARD W/ HM FOUNDATION, JUNCTION BOX TO REPLACE EXISTING HM3. USE EXISTING HM3 LUMINAIRES ON PROPOSED 120' HIGH MAST STANDARD.
- EXISTING 120' HIGH MAST STANDARD TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
- EXISTING 80' HIGH MAST STANDARD TO REMAIN IN PLACE.
- EXISTING CONTROL SYSTEM TO REMAIN IN PLACE.
- EXISTING JUNCTION BOXES AT THE CONTROL SYSTEM PANEL AND EACH HIGH MAST STANDARD TO BE REUSED.
- PROPOSED ELECTRICAL JUNCTION BOX. SEE TABLE C, SHEET E-1A, FOR DETAILS AND TYPE.
- REFERENCE TO CORRESPONDING DELTA NOTE AS NUMBERED.
- PROPOSED FEEDER CIRCUIT. CONTROL SYSTEM (A), CIRCUIT NUMBER (1) PLAN SYMBOL (6). SEE TABLE A, THIS SHEET.
- PROPOSED ELECTRICAL DUCT SIZE 2", 3" OR 4" TYPE (TL) OR (BD) LOCATION: SEE TABLE B.
- EXISTING FEEDER CIRCUIT. REMOVE CONDUCTOR AND RECYCLE. ABANDON CONDUIT IN PLACE.

NOTES

- AT THESE LOCATIONS, PROVIDE A COMMON GROUND PER NEC REQUIREMENTS FOR ALL ELECTRICAL CIRCUITS WITHIN THE RACEWAY. RACEWAY SHALL BE INSTALLED WITHIN A PROTECTIVE SLEEVE UNDER THE ROADWAY. SEE TABLE "B" FOR ESTIMATED LENGTHS.
- RUN NEW CONDUCTORS FROM EXISTING CONTROL SYSTEM PANEL TO THE HIGH MAST LIGHT STANDARD.
- EXISTING HM3 HIGH MAST LIGHT STANDARD IS TO BE REMOVED.

PLAN SYMBOL	DESCRIPTION	CONTRACT ITEM	
8	2 #8 Ø 1 #10G 1.5" P	2 AWG SIZE 8 CONDUCTOR (BK & RD) 1 AWG SIZE 10 GROUNDING CONDUCTOR 1.5" PVC CONDUIT	2 - 8 W/G FEEDER CIRCUIT IN 1.5" CONDUIT
*8	2 #8 Ø 1 #10G	2 AWG SIZE 8 CONDUCTOR (BK & RD) 1 AWG SIZE 10 GROUNDING CONDUCTOR	2 - 8 W/G FEEDER CIRCUIT
6	2 #6 Ø 1 #8G 1.5" P	2 AWG SIZE 6 CONDUCTOR (BK & RD) 1 AWG SIZE 8 GROUNDING CONDUCTOR 1.5" PVC CONDUIT	2 - 6 W/G FEEDER CIRCUIT IN 1.5" CONDUIT
*6	2 #6 Ø 1 #10G	2 AWG SIZE 6 CONDUCTOR (BK & RD) 1 AWG SIZE 8 GROUNDING CONDUCTOR	2 - 6 W/G FEEDER CIRCUIT

ABBREVIATIONS

BD	BURIED	PVC	PVC SCHEDULE 40 CONDUIT
LT	LIGHT	RGC	RIGID GALVANIZED STEEL CONDUIT
TL	TRENCHLESS	C	CONDUIT
MH	MOUNTING HEIGHT	CKT	CIRCUIT
Ø	PHASE	N	NEUTRAL
SER LAT	SERVICE LATERAL	G	GROUND
IGJB	IN GROUND JUNCTION BOX	HM	HIGH MAST
LED	LIGHT EMITTING DIODE	LSJB	LIGHT STANDARD JUNCTION BOX
HMJB	HIGH MAST JUNCTION BOX	CSJB	CONTROL SYSTEM JUNCTION BOX

COMPUTED BY: AB DATE: _____
CHECKED BY: _____ DATE: _____

02/03/98

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

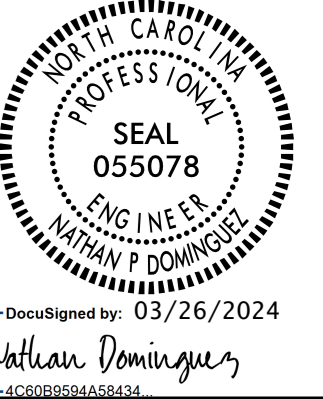


TABLE "C"
JUNCTION BOX AND FORMED OPENING SUMMARY (SEE GENERAL NOTE 5)




SHEET	LABEL	LOCATION AND OFFSET	TYPE, PAY ITEM & SIZE									GPS LOCATION 
			JUNCTION BOXES						FORMED OPENINGS			
			IN GROUND		LIGHT STANDARD		HIGH MAST		CONTROL SYSTEM	BRIDGE RAIL	MEDIAN BARRIER	
			IG18 18"X12"	IG36 36"X24"	LS18 18"X12"	LS36 36"X24"	HM18 18"X12"	HM36 36"X24"	CS36 36"X24"	F010 10"X12"	F018 18"X12"	
E2	JB1	-RPBC- STA. 15+95 18' LT		X								
E2	JB2	-Y20- STA. 29+56 50' RT		X								
E2	JB3	-Y20- STA. 29+56 60' LT	X									
E2	JB4	-L- STA. 116+5 62'LT	X									
E2	JB5	-L- STA. 116+5 60' RT	X									
E2	JB6	-L- STA. 109+66 74' RT	X									
E2	JB7	-RPC- STA. 17+48 21' LT	X									
E2	JB8	-RPC- STA. 13+91 21' LT	X									
E2	JB9	-Y20- STA. 27+44 50' RT	X									
E2	JB10	-Y- STA. 37+92 38' RT	X									
E2	JB11	-Y- STA. 37+92 40' LT	X									
E2	HM3JB	WITHIN 10' OF NEW HM3						X				
CSA TOTALS			9	2				1				

TABLE "B"
ELECTRICAL DUCT SUMMARY
(ESTIMATED LENGTH IN FEET)

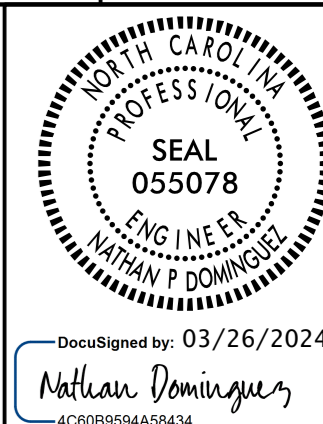
LOCATION	RACEWAY 	SHEET	TYPE					
			TRENCHLESS (TL) FEET			BURIED (BD) FEET		
			SIZE 2"	SIZE 3"	SIZE 4"	SIZE 2"	SIZE 3"	SIZE 4"
-RPBC- STA. 15+95	CSAJB - JB1				130	150		
-L- STA. 109+66				134				
-RPC- STA. 13+90				32				
-L- STA. 116+05				114				
-Y20- STA. 29+56	JB2 - JB3			90	110			
-Y- STA. 37+92				78				
CSA TOTALS				358	220	260		

SEE SHEET "E-1" FOR
LEGEND &  NOTES

COMPUTED BY: AB DATE: _____
CHECKED BY: _____ DATE: _____

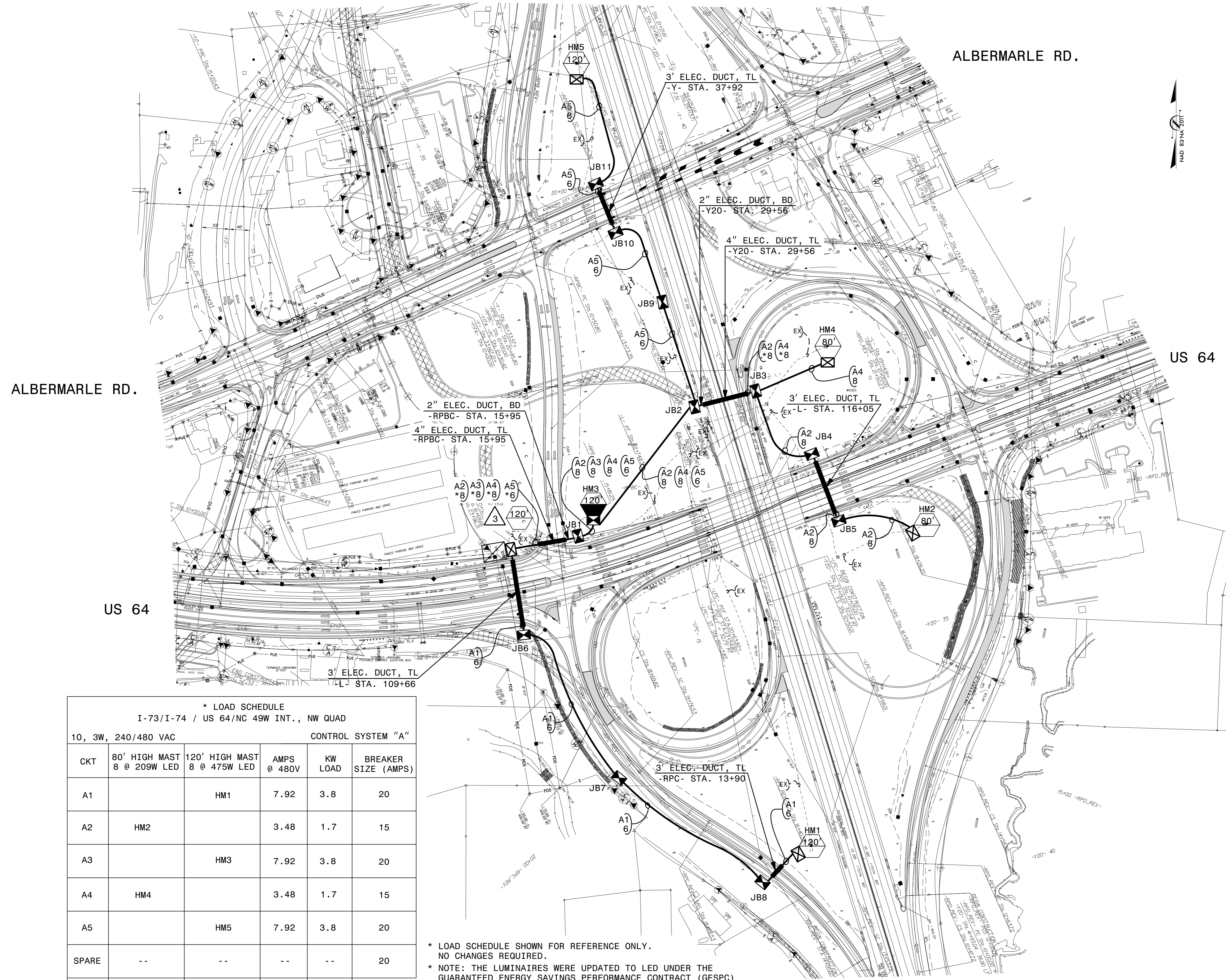
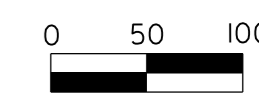
22-MAR-2024 06:44
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 Labrown1 At RD-328856

USE FOR LIGHTING CONSTRUCTION ONLY



DocuSigned by: 03/26/2024
Nathan Dominguez
4C92B95A4A3434

SEE SHEET "E-1" FOR LEGEND & △ NOTES



* LOAD SCHEDULE
I-73/I-74 / US 64/NC 49W INT., NW QUAD

10, 3W, 240/480 VAC		CONTROL SYSTEM "A"			
CKT	80' HIGH MAST 8 @ 209W LED	120' HIGH MAST 8 @ 475W LED	AMPS @ 480V	KW LOAD	BREAKER SIZE (AMPS)
A1		HM1	7.92	3.8	20
A2		HM2	3.48	1.7	15
A3		HM3	7.92	3.8	20
A4		HM4	3.48	1.7	15
A5		HM5	7.92	3.8	20
SPARE	--	--	--	--	20
TOTAL	2	3	30.72	14.8	

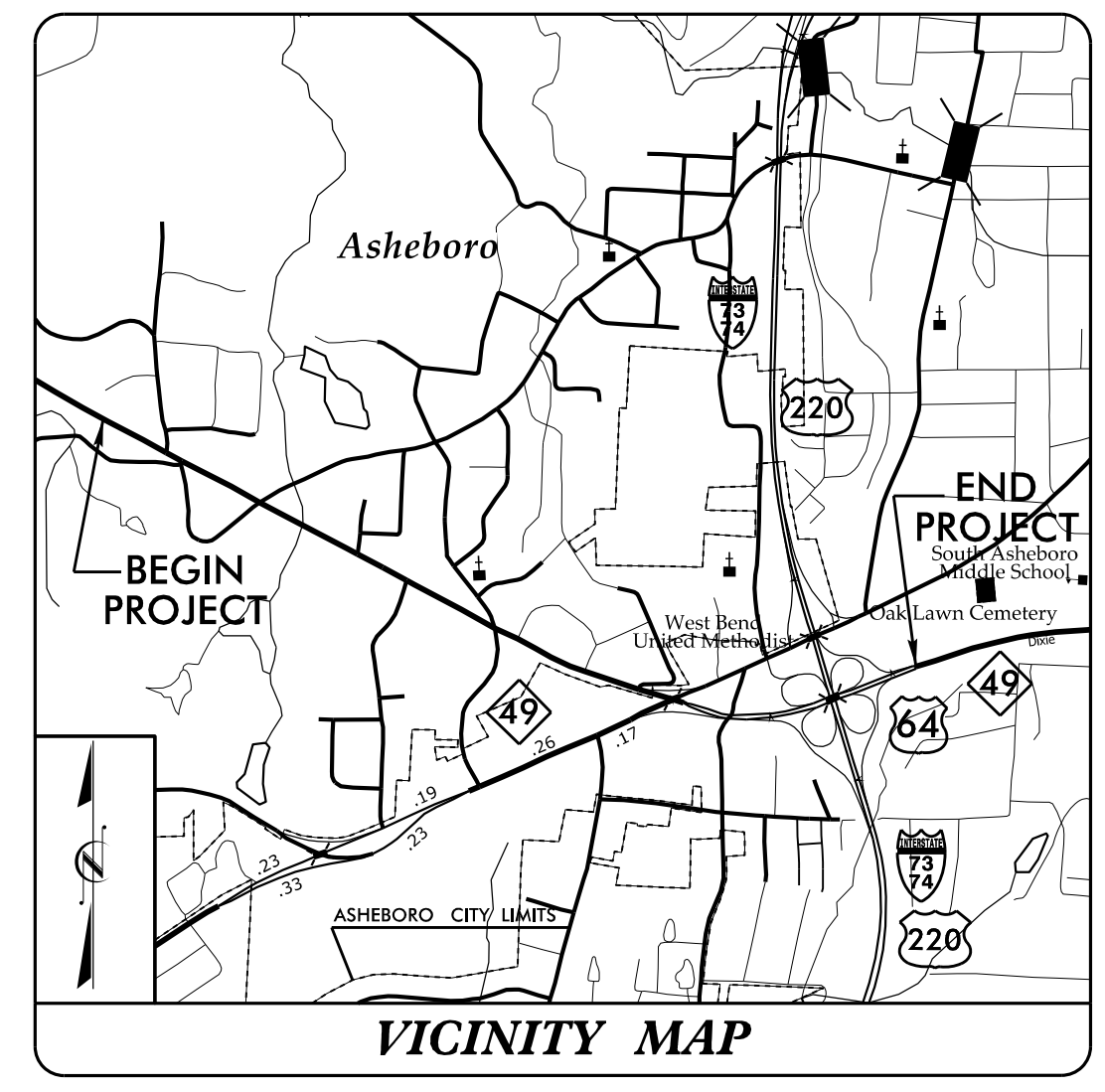
* LOAD SCHEDULE SHOWN FOR REFERENCE ONLY.
NO CHANGES REQUIRED.
* NOTE: THE LUMINAIRES WERE UPDATED TO LED UNDER THE GUARANTEED ENERGY SAVINGS PERFORMANCE CONTRACT (GESPC) WITH BRADY/TRANE SERVICES IN JUNE OF 2019 AND ARE TO BE REUSED.
* LIGHTING ORIGINALLY INSTALLED UNDER PROJECT I-4407 LET 6/15/2010.

2			
1			
Rev.	Date	Description	Approved
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION LIGHTING LAYOUT I-73-I-74/US 64 INTERCHANGE RANDOLPH COUNTY			
Drawn By:	AB	Approved By:	Dwg No.:

22-MAR-2024 06:51
 R:\Lighting\Lighting Design\U5813.1&e.psh-E-2.dgn
 labrown1 AT RD-328855L

TIP PROJECT: U-5813

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Plan Sheet Symbols



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

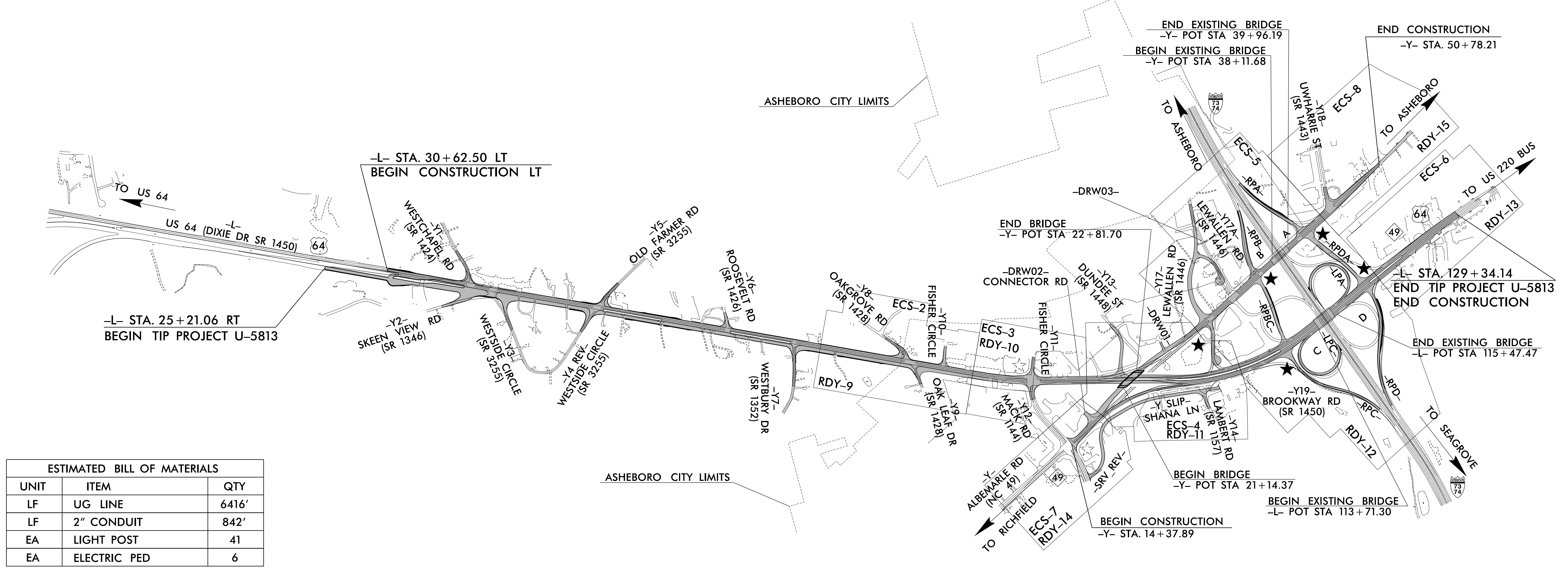
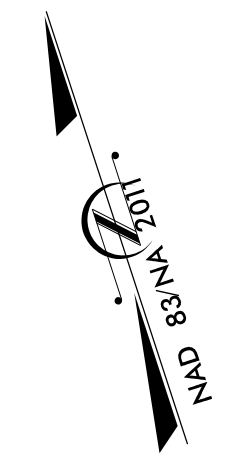
CONDUIT & LIGHTING RANDOLPH COUNTY

**LOCATION: US 64 FROM ASHEBORO BYPASS TO
EAST OF I-73/I-74/US 220 TO ASHEBORO**

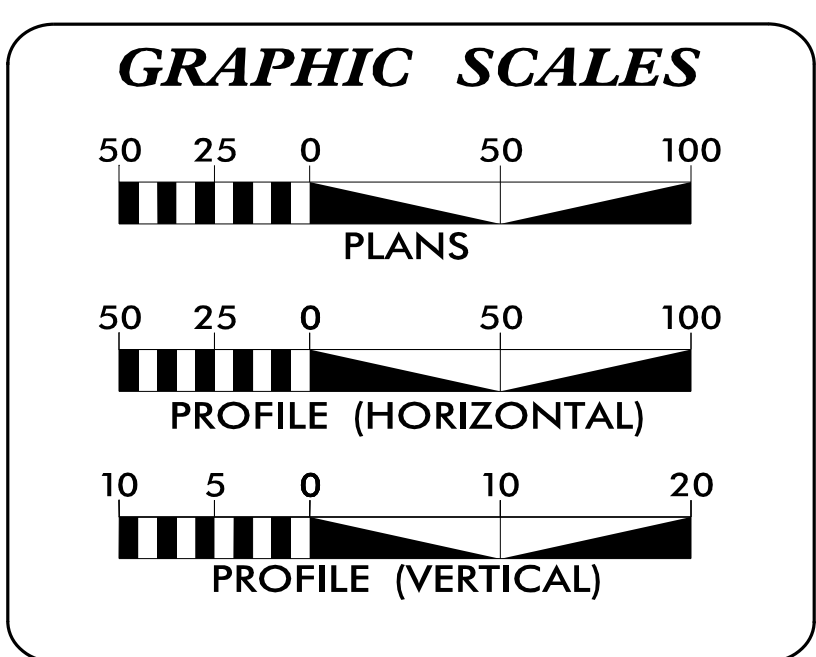
TYPE OF WORK: DUKE CONDUIT LAYOUT

T.I.P. NO.	SHEET NO.
U-5813	ECS-1

NOTE:
ALL UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.



UNIT	ITEM	QTY
LF	UG LINE	6416'
LF	2" CONDUIT	842'
EA	LIGHT POST	41
EA	ELECTRIC PED	6



SHEET NO.:	DESCRIPTION:
ECS-1	TITLE SHEET
ECS-2 THRU ECS-8	LIGHTING PLAN SHEETS

(A) POWER - DUKE ENERGY
(B) POWER - RANDOLPH EMC
(C) LIGHTING - CITY OF ASHEBORO

PREPARED IN THE OFFICE OF:

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2052 Energy Drive
Phone: 919.297.0220

NC License: C-4647
Apex, NC 27502
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JIM FORBES UTILITY PROJECT MANAGER
D. VONDENHUEVEL PROJECT UTILITY COORDINATOR

**DIVISION OF HIGHWAYS
DIVISION 8**
121 DOT DRIVE
CARTHAGE, NC 28327
PHONE (910) 773-8000
FAX (910) 947-3873

REUBEN BLAKLEY, PE DIVISION CONSTRUCTION ENGR
TRAVIS L. MORGAN, PE DIVISION UTILITY ENGINEER
JAMIE YOW DIVISION UTILITY COORDINATOR

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LEGEND

- 2" UG LINE
- ⊕ 2" CONDUIT
- ⊙ LIGHT POST
- ⊠ ELECTRIC PED

PARCEL NO.	PARCEL OWNER	DEED BOOK/PAGE
33	THE JESSE TATE LEONARD FAMILY TRUST TRUSTEES PHYLIS LEONARD MARTENS JESSE TATE LEONARD	
34/34B	MCKENZIE PROPERTIES AND INVESTMENTS,LLC	
35	ANDREW MARK SCHWARZ	

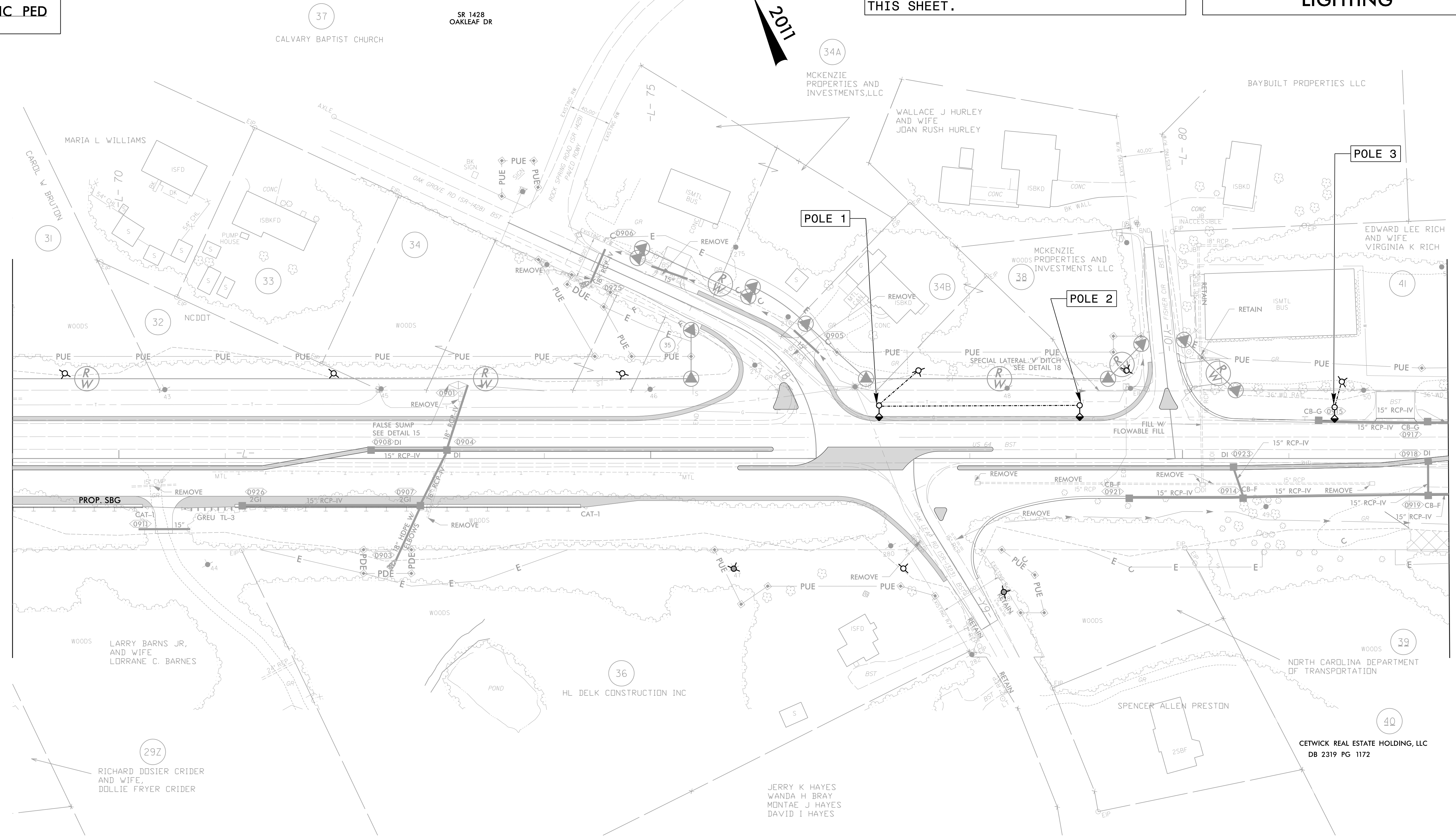
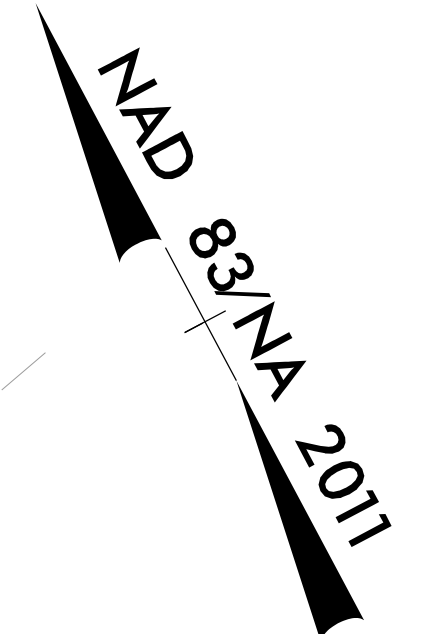
Weston Sampson
 WSE of North Carolina, PC
 2052 Energy Drive
 Phone: 919.297.0220

NC License: C-4847
 Apex, NC 27502
 westonandsampson.com

PROJECT REFERENCE NO. U-5813	SHEET NO. ECS-2
THIS SHEET CORRESPONDS TO RDY-9	

CONDUIT LAYOUT
CONDUIT LOCATIONS FOR FUTURE DUKE ENERGY LIGHTING

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



- PROJECT NOTES**
- ALL CONDUIT AND FITTINGS FOR STREET LIGHTING MUST BE SCHEDULE 40 PVC OR GREATER WITH TRACER WIRE.
 - BURY CONDUIT AT MINIMUM DEPTH OF 36".
 - INSTALL CONTINUOUS RUNS OF CONDUIT UNDER DRIVEWAYS AND ROAD CROSSINGS ONLY AND END CONDUITS AT LOCATIONS AS INDICATED.
 - CAP OFF OR TAPE ALL CONDUIT ENDS AND STAKE THE LOCATION OF THE ENDS OF THE CONDUIT. ASSURE NO DEBRIS, WATER OR OTHER FOREIGN MATTER IS PRESENT IN ANY CONDUIT SEGMENT.
 - INSTALL A PULL STRING OR MULE TAPE IN EACH SPAN OF CONDUIT AND LEAVE ATLEAST TWELVE (12) INCHES OUTSIDE OF THE STUB UP. THE PULL STRING WILL BE MADE FROM MATERIAL THAT WILL NOT ROT.
 - LIGHT POLES AND CONDUCTOR TO BE INSTALLED BY OTHERS AND ARE NOT PART OF THIS CONTRACT.

ESTIMATED BILL OF MATERIALS

UNIT	ITEM	QTY
LF	UG LINE	290'
LF	2" CONDUIT	
EA	LIGHT POST	3
EA	ELECTRIC PED	

DESCRIPTION	ALIGN	STATION	OFFSET	OFFSET
POLE 1	-L-	77+15	50'	LT
POLE 2	-L-	79+04	50'	LT
POLE 3	-L-	81+43	48'	LT

MATCH LINE -L- 82 + 50
SEE SHEET ECS-3

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LEGEND

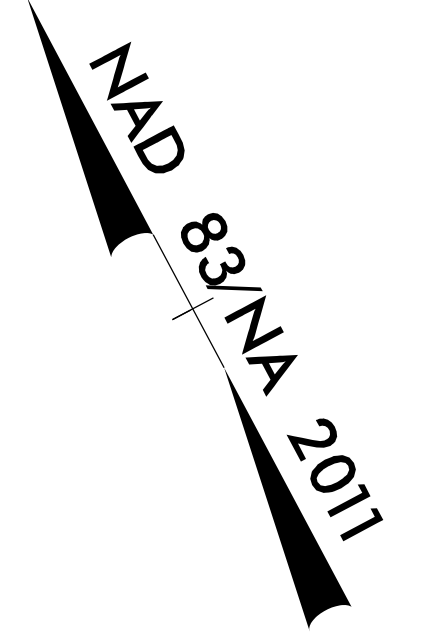
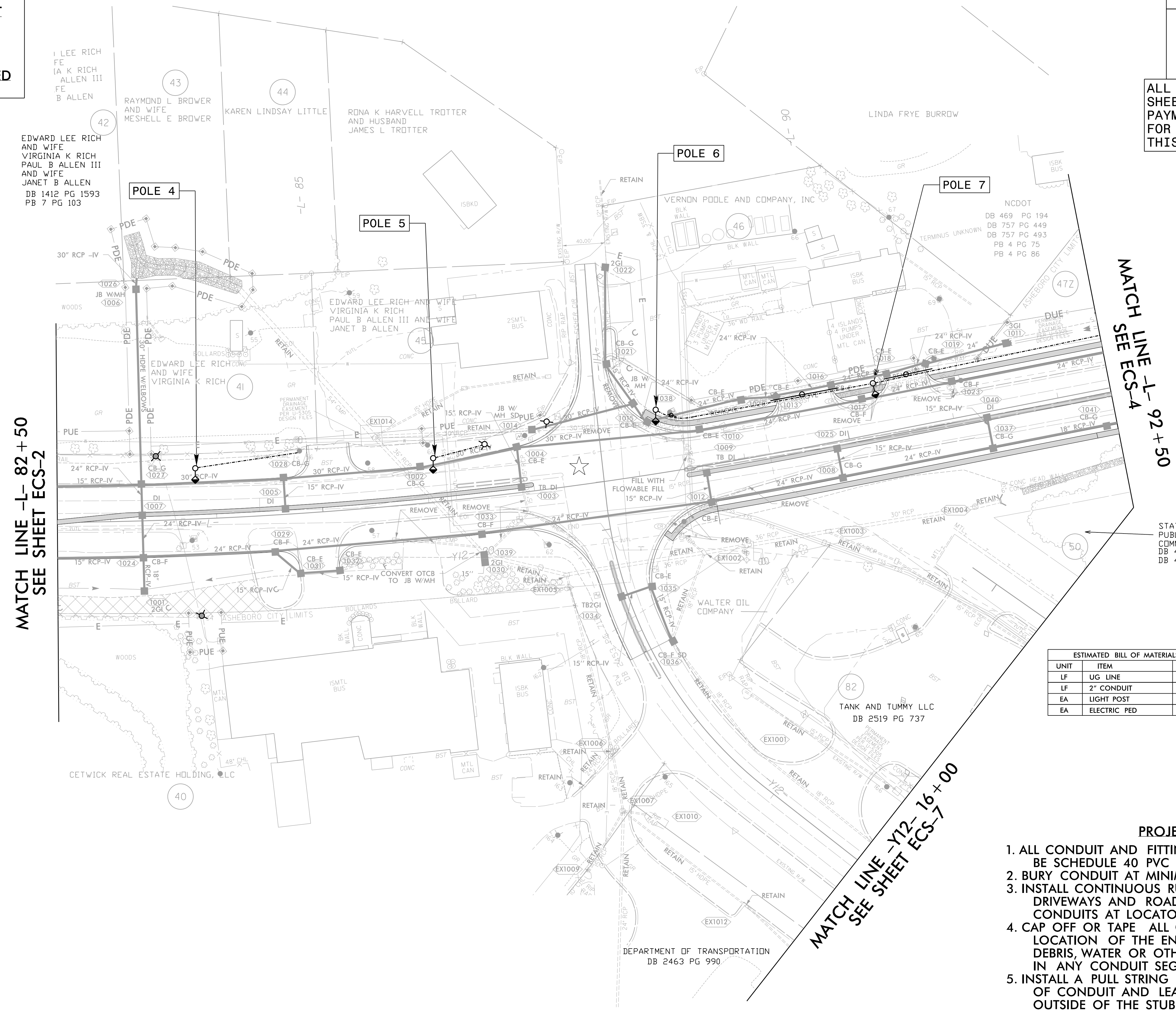
	2" UG LINE
	2" CONDUIT
	LIGHT POST
	ELECTRIC PED

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PROJECT REFERENCE NO. U-5813	SHEET NO. ECS-3
THIS SHEET CORRESPONDS TO RDY-10	

CONDUIT LAYOUT
CONDUIT LOCATIONS FOR
FUTURE DUKE ENERGY
LIGHTING

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



☆ EXISTING SIGNAL

ESTIMATED BILL OF MATERIALS

UNIT	ITEM	QTY
LF	UG LINE	577'
LF	2" CONDUIT	121'
EA	LIGHT POST	4
EA	ELECTRIC PED	

DESCRIPTION	ALIGN	STATION	OFFSET	OFFSET
POLE 4	-L-	83+82	48'	LT
POLE 5	-L-	86+08	41'	LT
POLE 6	-L-	88+25	60'	LT
POLE 7	-L-	90+32	47.1'	LT

- PROJECT NOTES**
1. ALL CONDUIT AND FITTINGS FOR STREET LIGHTING MUST BE SCHEDULE 40 PVC OR GREATER WITH TRACER WIRE.
 2. BURY CONDUIT AT MINIMUM DEPTH OF 36".
 3. INSTALL CONTINUOUS RUNS OF CONDUIT UNDER DRIVEWAYS AND ROAD CROSSINGS ONLY AND END CONDUITS AT LOCATIONS AS INDICATED.
 4. CAP OFF OR TAPE ALL CONDUIT ENDS AND STAKE THE LOCATION OF THE ENDS OF THE CONDUIT. ASSURE NO DEBRIS, WATER OR OTHER FOREIGN MATTER IS PRESENT IN ANY CONDUIT SEGMENT.
 5. INSTALL A PULL STRING OR MULE TAPE IN EACH SPAN OF CONDUIT AND LEAVE ATLEAST TWELVE (12) INCHES OUTSIDE OF THE STUB UP. THE PULL STRING WILL BE MADE FROM MATERIAL THAT WILL NOT ROT.
 6. LIGHT POLES AND CONDUCTOR TO BE INSTALLED BY OTHERS AND ARE NOT PART OF THIS CONTRACT.

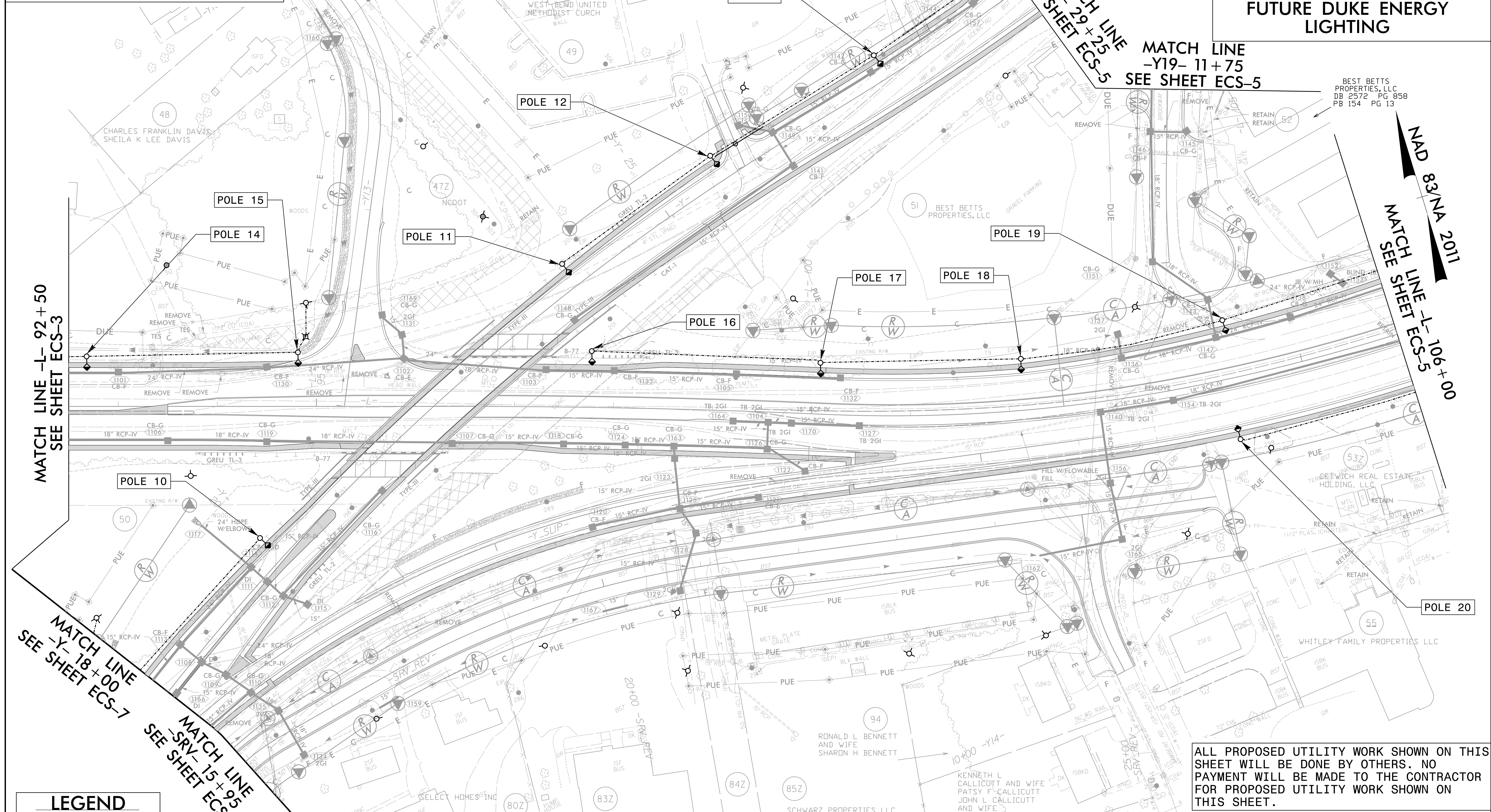
CONDUIT LAYOUT
CONDUIT LOCATIONS FOR
FUTURE DUKE ENERGY
LIGHTING

CONDUIT LAYOUT
CONDUIT LOCATIONS FOR
FUTURE DUKE ENERGY
LIGHTING

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PROJECT REFERENCE NO.	SHEET NO.
U-5813	ECS-4
THIS SHEET CORRESPONDS TO RDY-11	



MATCH LINE -L- 92+50
 SEE SHEET ECS-3

MATCH LINE
 -Y- 29+25
 SEE SHEET ECS-5

MATCH LINE
 -Y19- 11+75
 SEE SHEET ECS-5

NAD 83/NA 2011
 MATCH LINE -L- 106+00
 SEE SHEET ECS-5

MATCH LINE
 -Y- 18+00
 SEE SHEET ECS-7

MATCH LINE
 -SRV- 15+95
 SEE SHEET ECS-7

LEGEND

---	2" UG LINE
⊕	2" CONDUIT
⊙	LIGHT POST
⊠	ELECTRIC PED

- PROJECT NOTES**
1. ALL CONDUIT AND FITTINGS FOR STREET LIGHTING MUST BE SCHEDULE 40 PVC OR GREATER WITH TRACER WIRE.
 2. BURY CONDUIT AT MINIMUM DEPTH OF 36".
 3. INSTALL CONTINUOUS RUNS OF CONDUIT UNDER DRIVEWAYS AND ROAD CROSSINGS ONLY AND END CONDUITS AT LOCATIONS AS INDICATED.
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 6. LIGHT POLES AND CONDUCTOR TO BE INSTALLED BY OTHERS AND ARE NOT PART OF THIS CONTRACT.

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

ESTIMATED BILL OF MATERIALS

UNIT	ITEM	QTY
LF	UG LINE	1995'
LF	2" CONDUIT	58'
EA	LIGHT POST	9
EA	ELECTRIC PED	2

DESCRIPTION	ALIGN	STATION	OFFSET	OFFSET
POLE 10	-Y-	19+78	30'	LT
POLE 11	-Y-	23+85	26'	LT
POLE 12	-Y-	25+68	28'	LT
POLE 13	-Y-	27+62	27'	LT
POLE 14	-L-	92+68	51'	LT
POLE 15	-L-	94+81	55'	LT
POLE 16	-L-	97+77	57'	LT
POLE 17	-L-	100+07	52'	LT
POLE 18	-L-	102+16	52'	LT
POLE 19	-L-	104+30	59'	RT
POLE 20	-L-	104+23	62'	RT

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LEGEND

---	2" UG LINE
+	2" CONDUIT
⊕	LIGHT POST
⊕	ELECTRIC PED

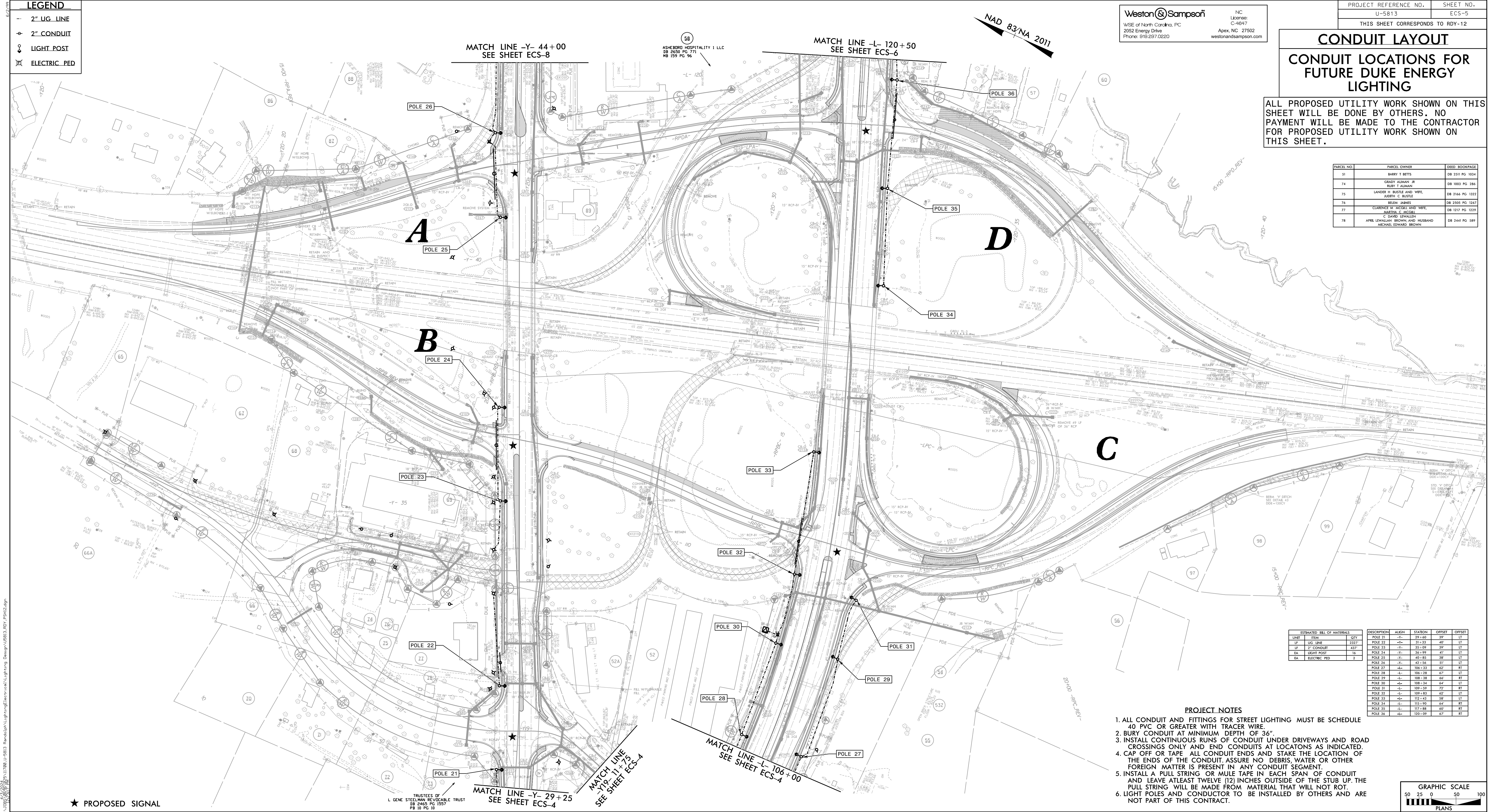
Weston Sampson
 NC License
 C-4947
 WSE of North Carolina, PC
 2052 Energy Drive
 Phone: 919.257.0220
 Apex, NC 27502
 westonsampson.com

PROJECT REFERENCE NO.	SHEET NO.
U-5813	ECS-5
THIS SHEET CORRESPONDS TO RDY-12	

CONDUIT LAYOUT
CONDUIT LOCATIONS FOR FUTURE DUKE ENERGY LIGHTING

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

PARCEL NO.	PARCEL OWNER	DEED BOOK/PAGE
51	DAVID T. BETTS	DB 2341 PG 1034
74	GRADY ALJMAN JR RUBY T ALJMAN	DB 1003 PG 286
75	LANDER H. BOUTER AND WIFE JUDITH C. BOUTER	DB 2166 PG 1322
76	BRENN JAMES	DB 2005 PG 1247
77	CAROLINE W. HICKER AND WIFE MARTHA C. HICKER	DB 1217 PG 1229
78	APRIL LEWELAN BROWN AND HUSBAND MICHAEL EDWARD BROWN	DB 2441 PG 589

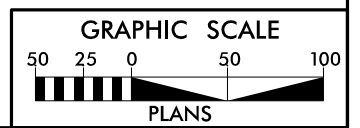


ESTIMATED BILL OF MATERIALS

LINE	ITEM	QUANTITY	UNIT
LP	UG LINE	2327	LF
LP	2" CONDUIT	437	LF
EA	LIGHT POST	18	EA
EA	ELECTRIC PED	2	EA

DESCRIPTION	ALIGN	STATION	OFFSET	OFFSET
POLE 21	-R-	29+00	38'	LT
POLE 22	-R-	31+33	40'	LT
POLE 23	-R-	35+00	38'	LT
POLE 24	-R-	38+99	41'	LT
POLE 25	-R-	40+85	38'	LT
POLE 26	-R-	43+56	37'	LT
POLE 27	-R-	106+33	42'	RT
POLE 28	-R-	106+29	47'	RT
POLE 29	-R-	108+38	64'	RT
POLE 30	-R-	108+34	64'	RT
POLE 31	-R-	109+59	72'	RT
POLE 32	-R-	109+83	62'	RT
POLE 33	-R-	112+43	58'	RT
POLE 34	-R-	115+90	64'	RT
POLE 35	-R-	117+88	60'	RT
POLE 36	-R-	120+09	47'	RT

- PROJECT NOTES**
1. ALL CONDUIT AND FITTINGS FOR STREET LIGHTING MUST BE SCHEDULE 40 PVC OR GREATER WITH TRACER WIRE.
 2. BURY CONDUIT AT MINIMUM DEPTH OF 36".
 3. INSTALL CONTINUOUS RUNS OF CONDUIT UNDER DRIVEWAYS AND ROAD CROSSINGS ONLY AND END CONDUITS AT LOCATIONS AS INDICATED.
 4. CAP OFF OR TAPE ALL CONDUIT ENDS AND STAKE THE LOCATION OF THE ENDS OF THE CONDUIT. ASSURE NO DEBRIS, WATER OR OTHER FOREIGN MATTER IS PRESENT IN ANY CONDUIT SEGMENT.
 5. INSTALL A PULL STRING OR MULE TAPE IN EACH SPAN OF CONDUIT AND LEAVE ATLEAST TWELVE (12) INCHES OUTSIDE OF THE STUB UP. THE PULL STRING WILL BE MADE FROM MATERIAL THAT WILL NOT ROT.
 6. LIGHT POLES AND CONDUCTOR TO BE INSTALLED BY OTHERS AND ARE NOT PART OF THIS CONTRACT.



★ PROPOSED SIGNAL

TRUSTEES OF
 L. GENE STEELMAN REVOCABLE TRUST
 88 2465 PG 1057
 88 12 PG 10

MATCH LINE
 -Y- 29+25
 SEE SHEET ECS-4

MATCH LINE
 -L- 106+00
 SEE SHEET ECS-4

MATCH LINE
 -Y- 44+00
 SEE SHEET ECS-8

MATCH LINE
 -L- 120+50
 SEE SHEET ECS-6

ASHERBRO HOSPITALITY I LLC
 88 8009 PG 771
 88 159 PG 96

8/17/99

LEGEND

- 2" UG LINE
- ⊕ 2" CONDUIT
- ⊙ LIGHT POST
- ⊠ ELECTRIC PED

ESTIMATED BILL OF MATERIALS		
UNIT	ITEM	QTY
LF	2" CONDUIT	329'
EA	LIGHT POST	2
EA	ELECTRIC PED	1

DESCRIPTION	ALIGN	STATION	OFFSET	OFFSET
POLE 25	-Y-	40+85	38'	LT
POLE 26	-Y-	42+56	51'	LT

Weston & Sampson
 WSE of North Carolina, PC
 2052 Energy Drive
 Phone: 919.297.0220

NC License: C-4847
 Apex, NC 27502
 westonandsampson.com

PROJECT REFERENCE NO. U-5813	SHEET NO. ECS-5A
THIS SHEET CORRESPONDS TO RDY-12A	

CONDUIT LAYOUT

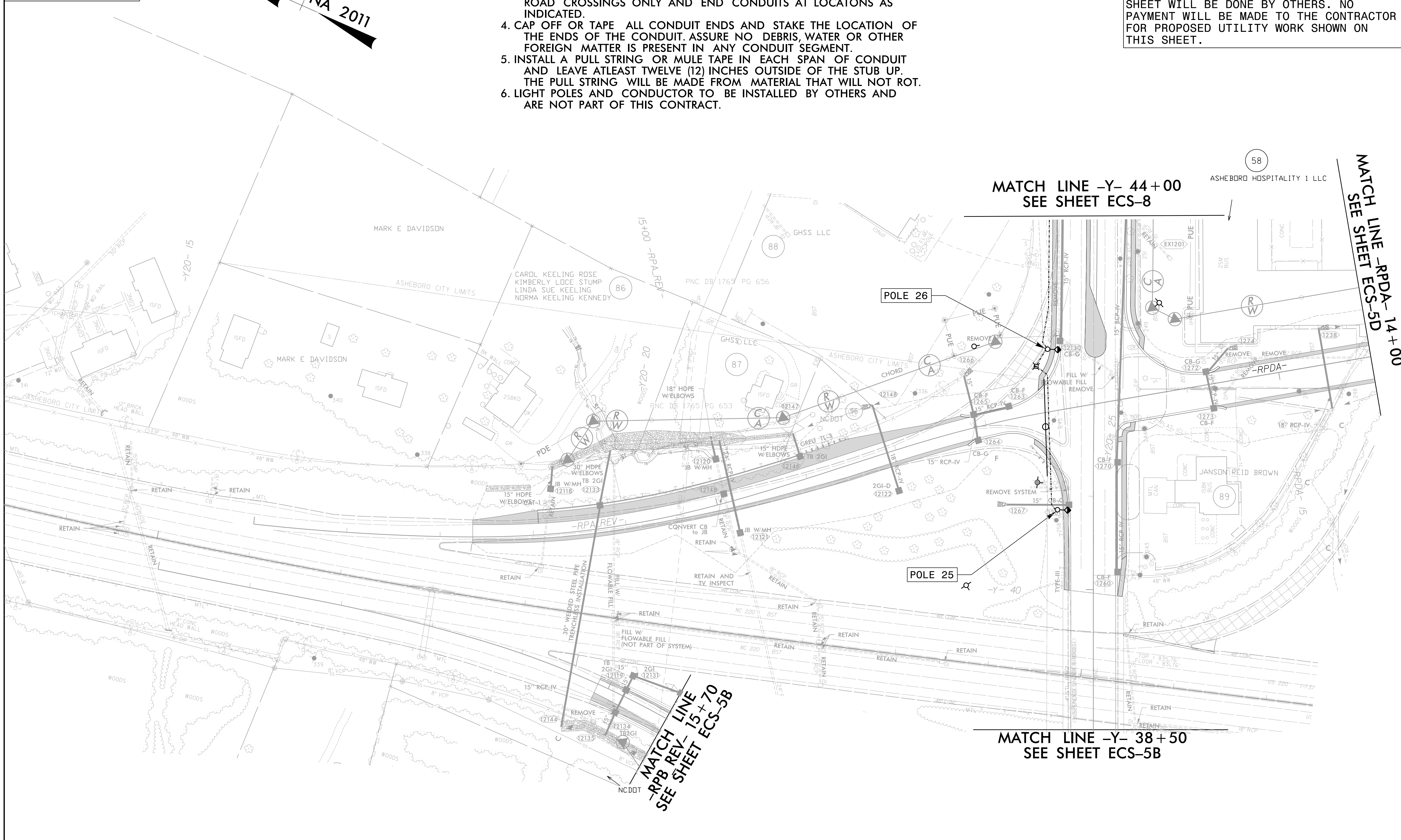
CONDUIT LOCATIONS FOR FUTURE DUKE ENERGY LIGHTING

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

PROJECT NOTES

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6. LIGHT POLES AND CONDUCTOR TO BE INSTALLED BY OTHERS AND ARE NOT PART OF THIS CONTRACT.

NAD 83/NA 2011



MATCH LINE -Y- 44+00
SEE SHEET ECS-8

MATCH LINE -RPDA- 14+00
SEE SHEET ECS-5D

MATCH LINE -Y- 38+50
SEE SHEET ECS-5B

MATCH LINE -RPB REV- 15+70
SEE SHEET ECS-5B

NAD 83/NA 2011

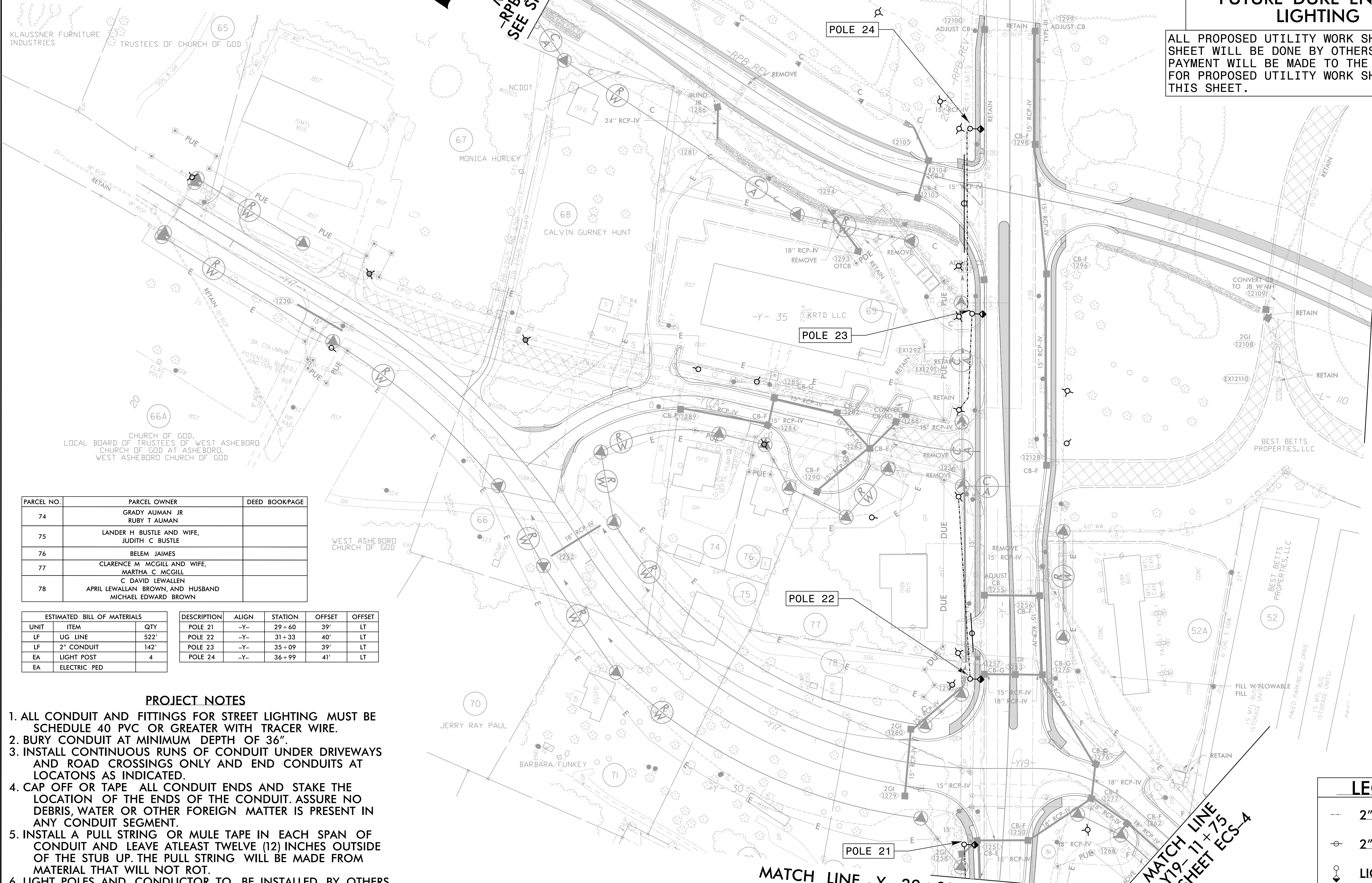
MATCH LINE
 -RPB REV- 15+70
 SEE SHEET ECS-5A

MATCH LINE -Y- 38+50
 SEE SHEET ECS-5A

CONDUIT LAYOUT
CONDUIT LOCATIONS FOR FUTURE DUKE ENERGY LIGHTING

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MATCH LINE
 -RPBC- 13+93
 SEE SHEET ECS-5C



PARCEL NO.	PARCEL OWNER	DEED BOOKPAGE
74	GRADY AUMAN JR RUBY T AUMAN	
75	LANDER H BUSTLE AND WIFE, JUDITH C BUSTLE	
76	BELEM JAIMES	
77	CLARENCE M MCGILL AND WIFE, MARTHA C MCGILL	
78	C DAVID LEWALLEN APRIL LEWALLAN BROWN, AND HUSBAND MICHAEL EDWARD BROWN	

ESTIMATED BILL OF MATERIALS			DESCRIPTION			
UNIT	ITEM	QTY	ALIGN	STATION	OFFSET	OFFSET
LF	UG LINE	522'	POLE 21	-Y- 29+60	39'	LT
LF	2" CONDUIT	142'	POLE 22	-Y- 31+33	40'	LT
EA	LIGHT POST	4	POLE 23	-Y- 35+09	39'	LT
EA	ELECTRIC PED		POLE 24	-Y- 36+99	41'	LT

PROJECT NOTES

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6. LIGHT POLES AND CONDUCTOR TO BE INSTALLED BY OTHERS AND ARE NOT PART OF THIS CONTRACT.

LEGEND

- 2" UG LINE
- ⊕ 2" CONDUIT
- ⊙ LIGHT POST
- ⊞ ELECTRIC PED

MATCH LINE -Y- 29+25 SEE SHEET ECS-4

MATCH LINE
 -Y- 11+75
 SEE SHEET ECS-4

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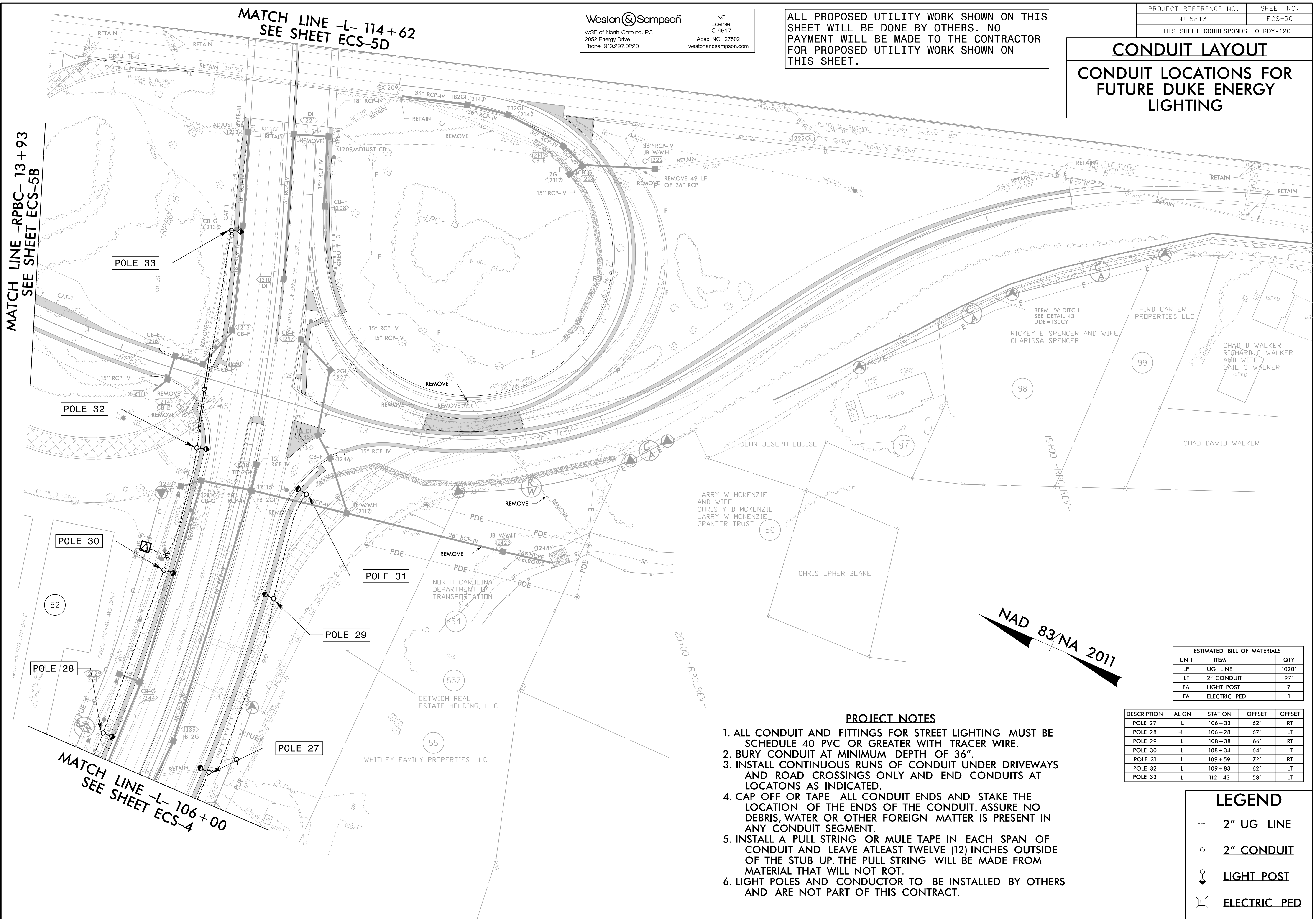
NC License: C-4847
 Apex, NC 27502
 westonandsampson.com

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PROJECT REFERENCE NO.	SHEET NO.
U-5813	ECS-5C
THIS SHEET CORRESPONDS TO RDY-12C	

CONDUIT LAYOUT

CONDUIT LOCATIONS FOR FUTURE DUKE ENERGY LIGHTING



ESTIMATED BILL OF MATERIALS		
UNIT	ITEM	QTY
LF	UG LINE	1020'
LF	2" CONDUIT	97'
EA	LIGHT POST	7
EA	ELECTRIC PED	1

DESCRIPTION	ALIGN	STATION	OFFSET	OFFSET
POLE 27	-L-	106+33	62'	RT
POLE 28	-L-	106+28	67'	LT
POLE 29	-L-	108+38	66'	RT
POLE 30	-L-	108+34	64'	LT
POLE 31	-L-	109+59	72'	RT
POLE 32	-L-	109+83	62'	LT
POLE 33	-L-	112+43	58'	LT

PROJECT NOTES

1. ALL CONDUIT AND FITTINGS FOR STREET LIGHTING MUST BE SCHEDULE 40 PVC OR GREATER WITH TRACER WIRE.
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LEGEND

- 2" UG LINE
- ⊕ 2" CONDUIT
- LIGHT POST
- ⊞ ELECTRIC PED

MATCH LINE -RBC- 13+93
SEE SHEET ECS-5B

MATCH LINE -L- 114+62
SEE SHEET ECS-5D

MATCH LINE -L- 106+00
SEE SHEET ECS-4

8/17/99

LEGEND

- 2" UG LINE
- 2" CONDUIT
- LIGHT POST
- ⊠ ELECTRIC PED

ESTIMATED BILL OF MATERIALS		
UNIT	ITEM	QTY
LF	UG LINE	457'
LF	2" CONDUIT	94'
EA	LIGHT POST	3
EA	ELECTRIC PED	

DESCRIPTION	ALIGN	STATION	OFFSET	OFFSET
POLE 34	-L	115+90	64'	RT
POLE 35	-L	117+88	60'	RT
POLE 36	-L	120+09	67'	RT

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 westonandsampson.com

PROJECT REFERENCE NO.	SHEET NO.
U-5813	ECS-5D
THIS SHEET CORRESPONDS TO RDY-12D	

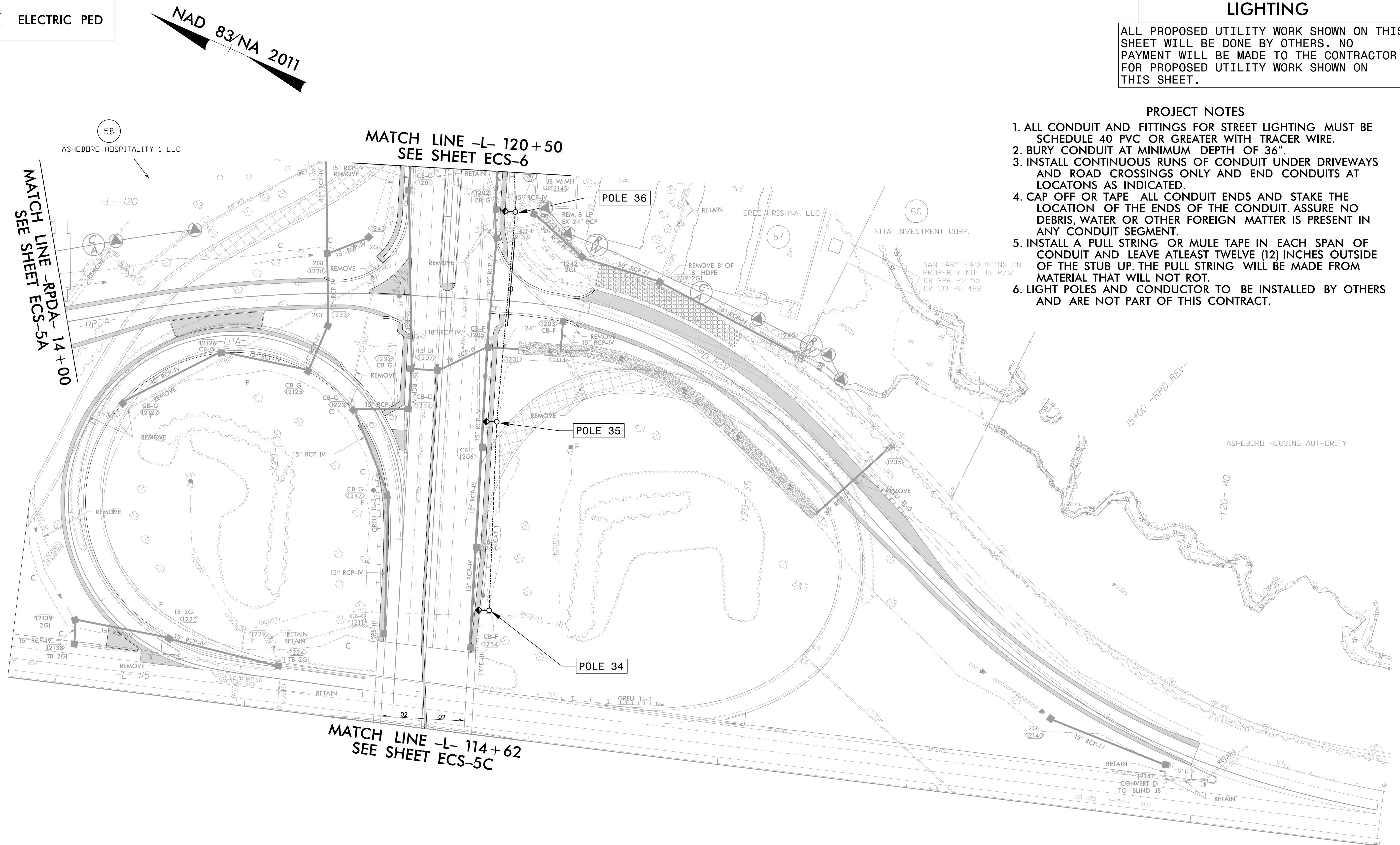
CONDUIT LAYOUT

CONDUIT LOCATIONS FOR FUTURE DUKE ENERGY LIGHTING

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

PROJECT NOTES

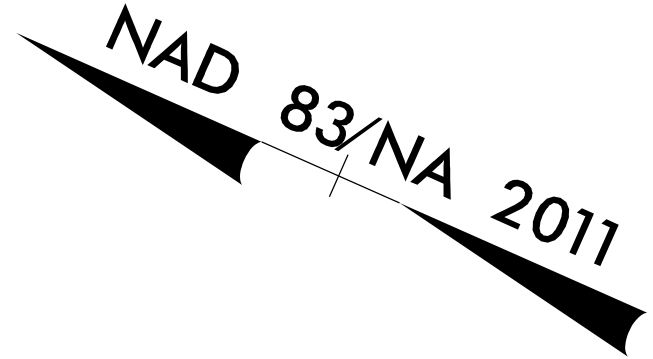
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6. LIGHT POLES AND CONDUCTOR TO BE INSTALLED BY OTHERS AND ARE NOT PART OF THIS CONTRACT.



MATCH LINE -R- 14+00
 SEE SHEET ECS-5A

MATCH LINE -L- 120+50
 SEE SHEET ECS-6

MATCH LINE -L- 114+62
 SEE SHEET ECS-5C



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 8/17/99

LEGEND

- 2" UG LINE
- ⊕ 2" CONDUIT
- ⊙ LIGHT POST
- ⊠ ELECTRIC PED

ESTIMATED BILL OF MATERIALS		
UNIT	ITEM	QTY
LF	2" CONDUIT	758'
EA	LIGHT POST	5
EA	ELECTRIC PED	2

DESCRIPTION	ALIGN	STATION	OFFSET	OFFSET
POLE 37	-L-	122+03	60'	RT
POLE 38	-L-	122+66	63'	LT
POLE 39	-L-	124+57	54'	LT
POLE 40	-L-	126+60	52'	LT
POLE 41	-L-	128+67	50'	LT

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PROJECT REFERENCE NO. U-5813	SHEET NO. ECS-6
THIS SHEET CORRESPONDS TO RDY-13	

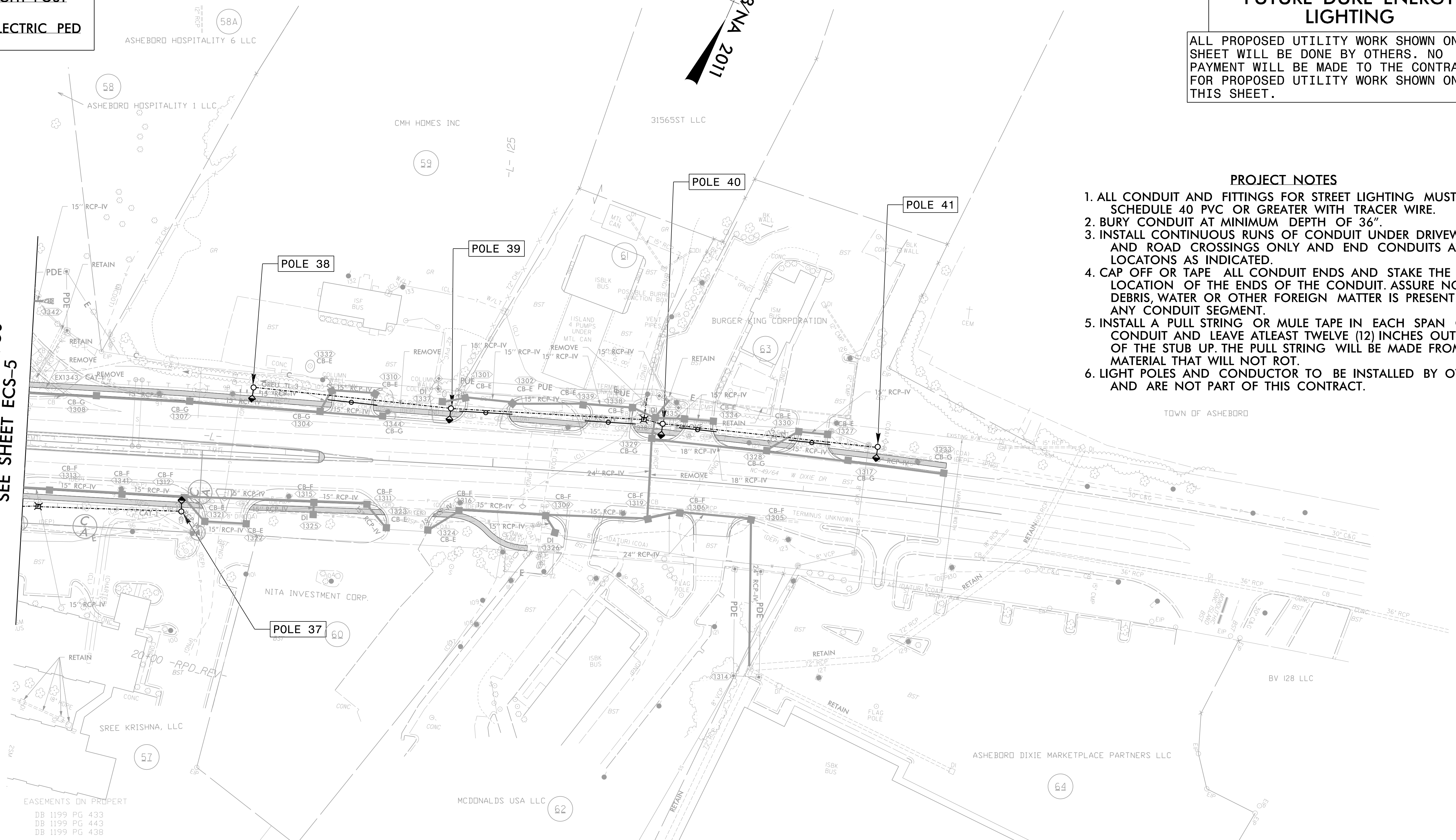
CONDUIT LAYOUT
CONDUIT LOCATIONS FOR
FUTURE DUKE ENERGY
LIGHTING

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

PROJECT NOTES

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6. LIGHT POLES AND CONDUCTOR TO BE INSTALLED BY OTHERS AND ARE NOT PART OF THIS CONTRACT.

MATCH LINE -L- 120+50
SEE SHEET ECS-5



EASEMENTS ON PROPERTY
 DB 1199 PG 433
 DB 1199 PG 443
 DB 1199 PG 438

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LEGEND

- 2" UG LINE
- ⊕ 2" CONDUIT
- ⊙ LIGHT POST
- ⊠ ELECTRIC PED

ESTIMATED BILL OF MATERIALS

UNIT	ITEM	QTY
LF	UG LINE	303'
LF	2" CONDUIT	
EA	LIGHT POST	2
EA	ELECTRIC PED	

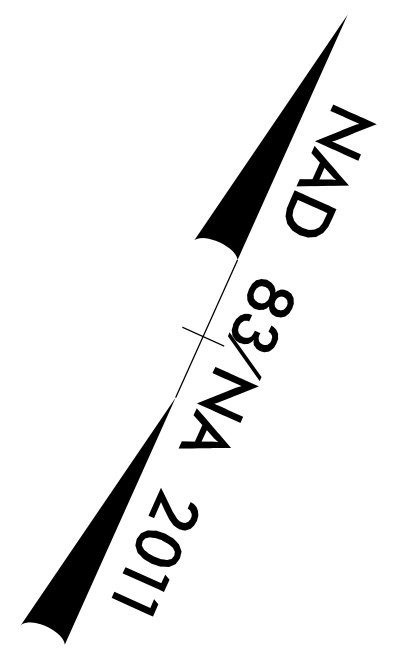
DESCRIPTION	ALIGN	STATION	OFFSET	OFFSET
POLE 8	-Y-	15+75	48'	RT
POLE 9	-Y-	17+57	60'	RT

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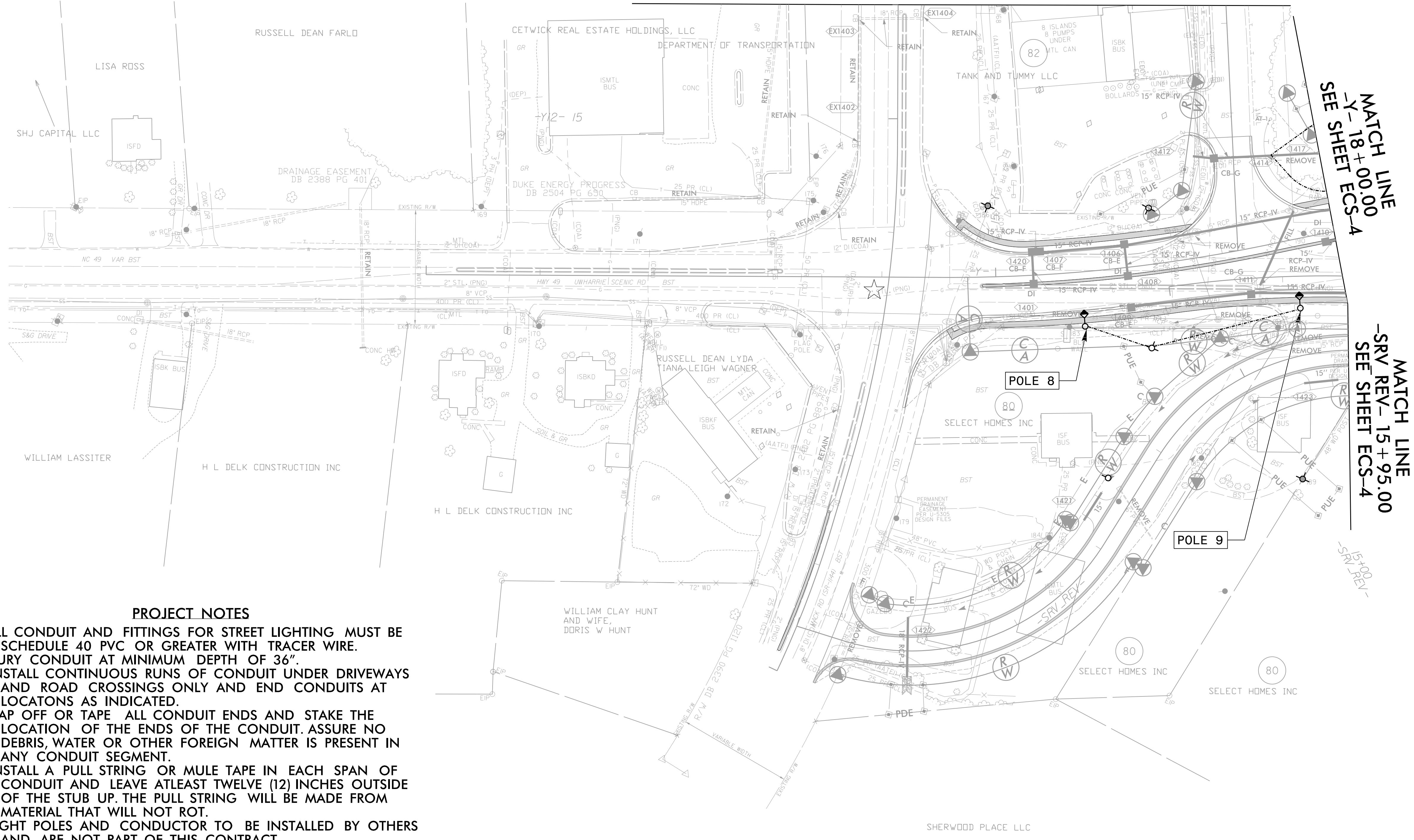
PROJECT REFERENCE NO.	SHEET NO.
U-5813	ECS-7
THIS SHEET CORRESPONDS TO RDY-14	

CONDUIT LAYOUT
CONDUIT LOCATIONS FOR FUTURE DUKE ENERGY LIGHTING

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



MATCH LINE -Y12- 16+00
SEE SHEET ECS-3



☆ EXISTING SIGNAL

MATCH LINE
-Y- 18+00.00
SEE SHEET ECS-4

MATCH LINE
-SRV REV- 15+95.00
SEE SHEET ECS-4

PROJECT NOTES

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6. LIGHT POLES AND CONDUCTOR TO BE INSTALLED BY OTHERS AND ARE NOT PART OF THIS CONTRACT.

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LEGEND

- 2" UG LINE
- ⊕ 2" CONDUIT
- ⊙ LIGHT POST
- ⊞ ELECTRIC PED

ESTIMATED BILL OF MATERIALS		
UNIT	ITEM	QTY
LF	2" CONDUIT	166'
EA	LIGHT POST	2
EA	ELECTRIC PED	

DESCRIPTION	ALIGN	STATION	OFFSET	OFFSET
POLE 42	-Y-	44+37	51'	LT
POLE 43	-Y-	45+99	44'	RT

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 2052 Energy Drive
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 Apex, NC 27502
 westonandsampson.com

PROJECT REFERENCE NO. U-5813	SHEET NO. ECS-8
THIS SHEET CORRESPONDS TO RDY-15	

CONDUIT LAYOUT

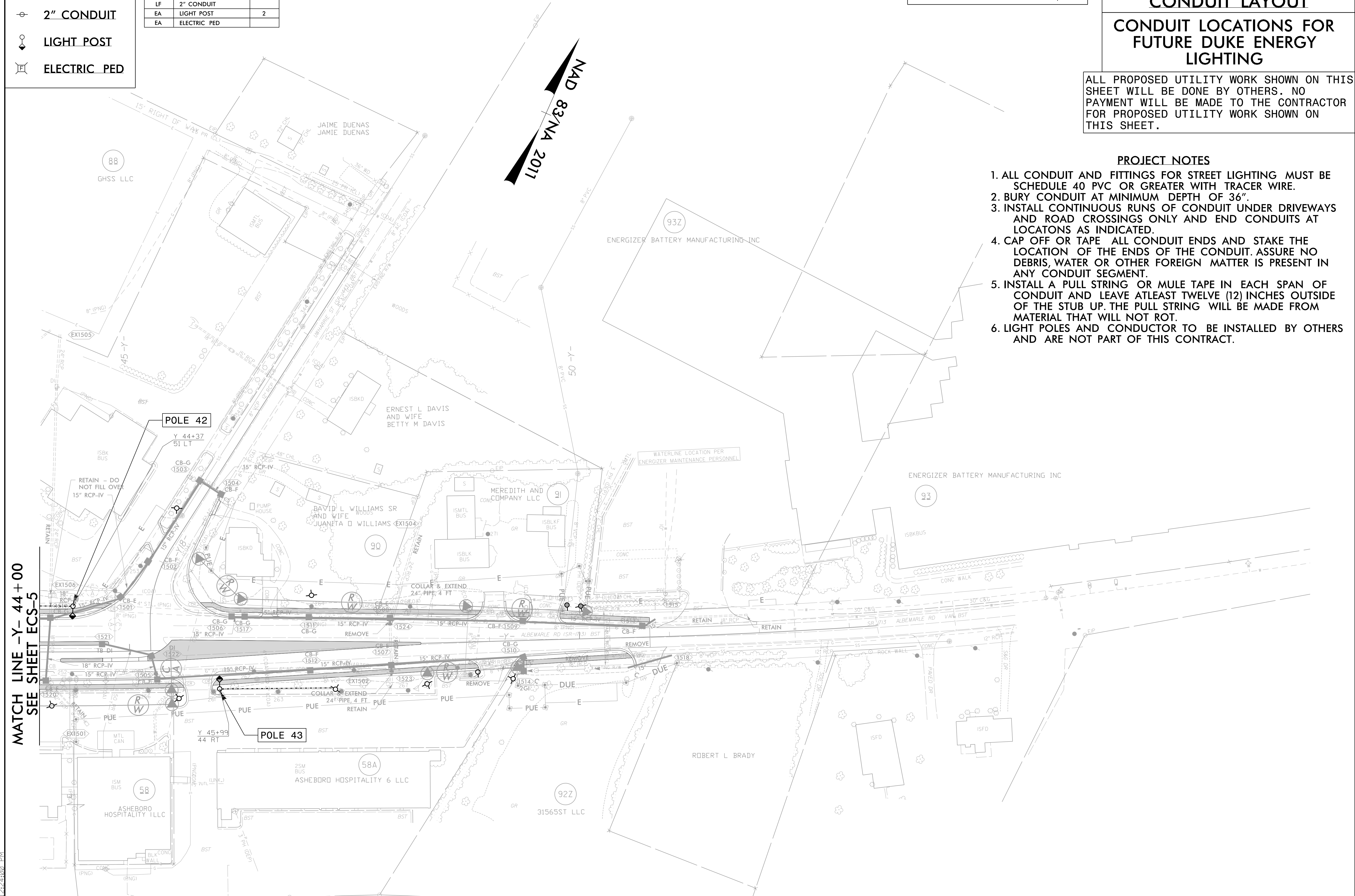
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MATCH LINE -Y- 44+00
SEE SHEET ECS-5



NAD 83/NA 2011