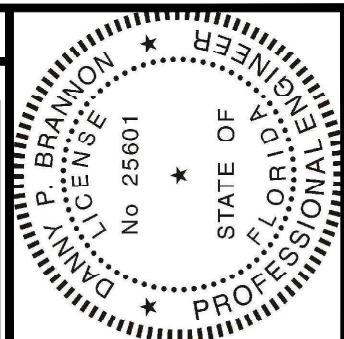


Legend	
Description	
1 Fiber (original)	
1 Fiber+1 SL (original)	
2 Fiber (original)	
2 Fiber+1 SL (original)	
Backlit Sign 1-2" (added)	
Concrete SL Base (added)	
Concrete SL Base (original)	
Fiber 1-2" (added)	
Fiber 1-2" (removed)	
Fiber 2-2" (added)	
Fiber 2-2" (removed)	
Fiber HH (added)	
Fiber HH (original)	
Fiber HH (removed)	
New Backlit Sign	
SL (added)	
SL (original)	
SL 1-2" (added)	
SL 1-2" (removed)	
SL 2-2" (removed)	
SL HH (added)	
SL HH (original)	
SL HH (removed)	
SL Panel (added)	

SYMBOL LEGEND

	CENTERLINE
	EDGE OF PAVEMENT
	RIGHT OF WAY
	SIDEWALK
	PROPOSED CONDUIT
	SANITARY SEWER
	OVERHEAD LINES
	PROPERTY LINES
	SURVEY CONTROL POINT
	CONCRETE MONUMENT FOUND
	IRON PIPE FOUND
	IRON ROD FOUND
	NAIL AND DISC FOUND
	UTILITY POLE (WOOD)
	UTILITY POLE (CONCRETE)
	GUY WIRE
	SANITARY MANHOLE CLEANOUT
	GRATE INLET
	STORMWATER MANHOLE
	MITERED END SECTION
	UTILITY MANHOLE
	GAS LINE MARKER
	FIRE HYDRANT
	WATER VALVE
	WATER METER
	BACKFLOW PREVENTER
	TRANSFORMER
	CABLE MARKER
	GAS VALVE / METER
	LIGHT POLE
	LANDSCAPE LIGHT
	BOLLARD
	SIGN
	UTILITY RISER / PEDESTAL
	CONTROL PANEL
	TRAFFIC / PEDESTRIAN CONTROL
	IRRIGATION VALVE
	GUY POLE
	SERVICE BOX (ELECTRIC)
	SERVICE BOX (CABLE)
	SERVICE BOX (TELEPHONE)
	MAILBOX
	PROPOSED HANDHOLE
	PROPOSED STREET LIGHT
	EXISTING STREET POST LIGHT
	EXISTING STREET POST LIGHT WITH STREET SIGN
	PROPOSED STREET LIGHT PANEL



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 FLORIDA P. E. NO. 25601

DATE 11/16/2020

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 Consulting Engineers

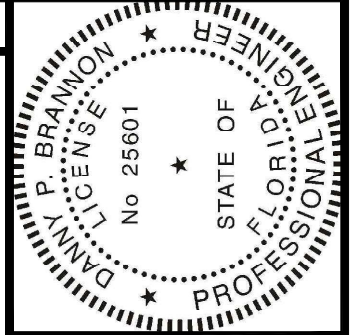
631 US Highway 1, Suite 301
 North Palm Beach, Florida 33408
 (561) 847-4435 CA# 6784

Town of Longboat Key

DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA

Date:	10/22/2020
Scale:	AS NOTED
Drawn:	DPB
Checked:	DPB
Job #	2014-LBK
Sheet	
KEY MAP	

MATCHLINE-STA 423+82
FOR CONTINUATION SEE SHEET 2

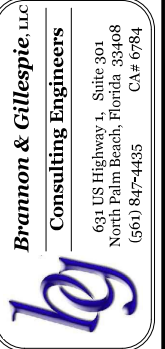


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Date: 2020.11.16
11:03:13 -05'00'

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FLORIDA P. E. NO. 25601

DATE 11/16/2020

Town of Longboat Key

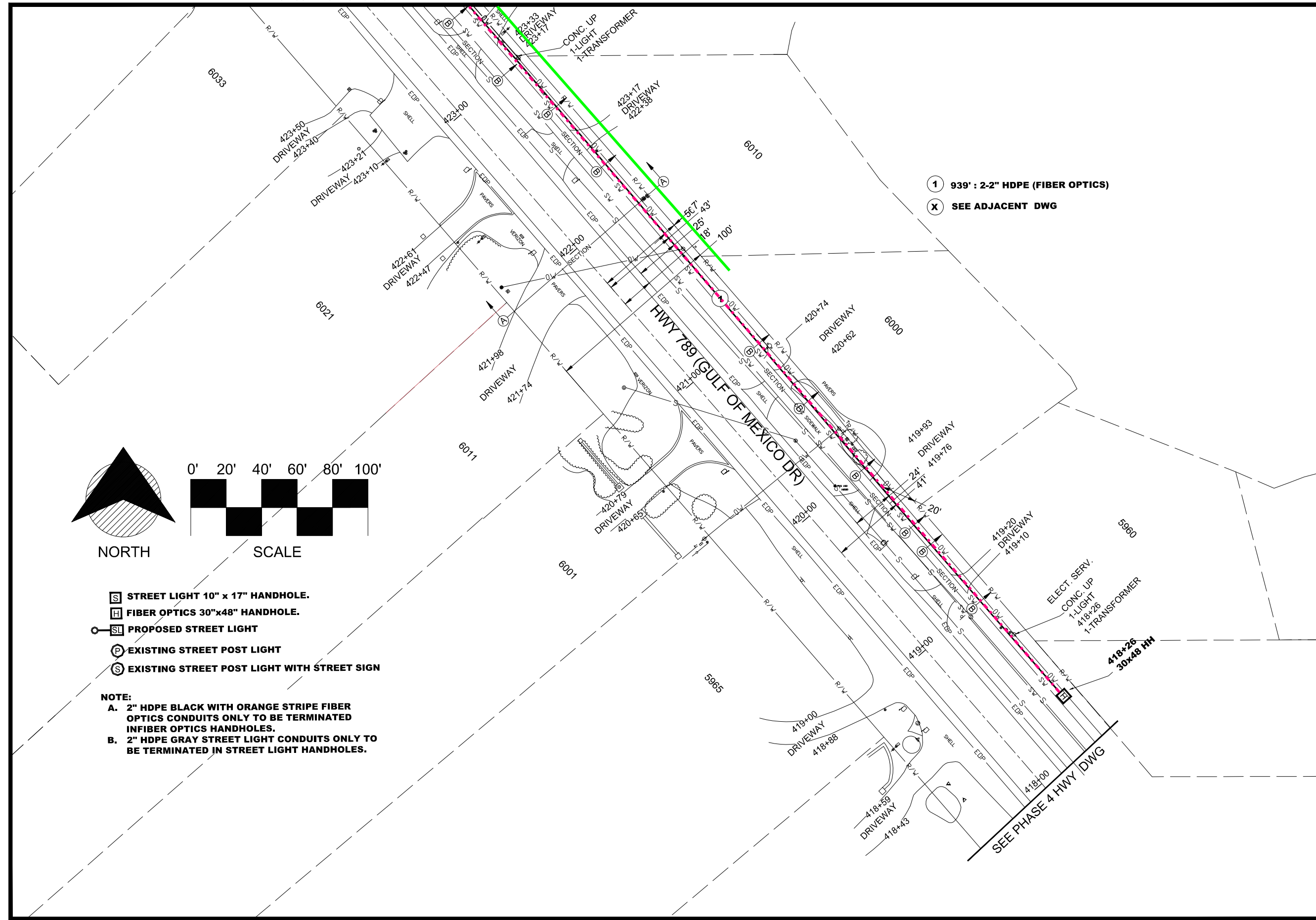


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North Palm Beach, Florida 33408
(561) 847-4485 CA# 6784

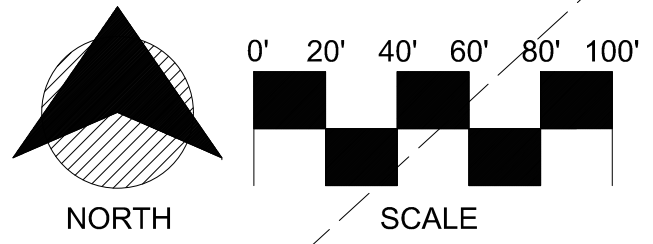


DATE: 10/22/2020
SCALE: AS NOTED
DRAWN: DPB
CHECKED: DPB
JOB #: 2014-LBK

Sheet
G1 OF 16



- ① 939' : 2-2" HDPE (FIBER OPTICS)
- ⓧ SEE ADJACENT DWG

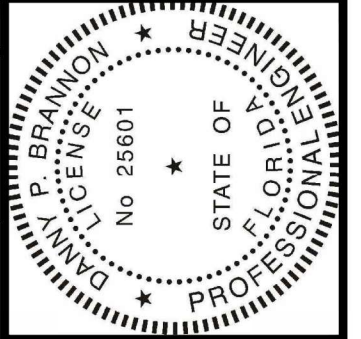
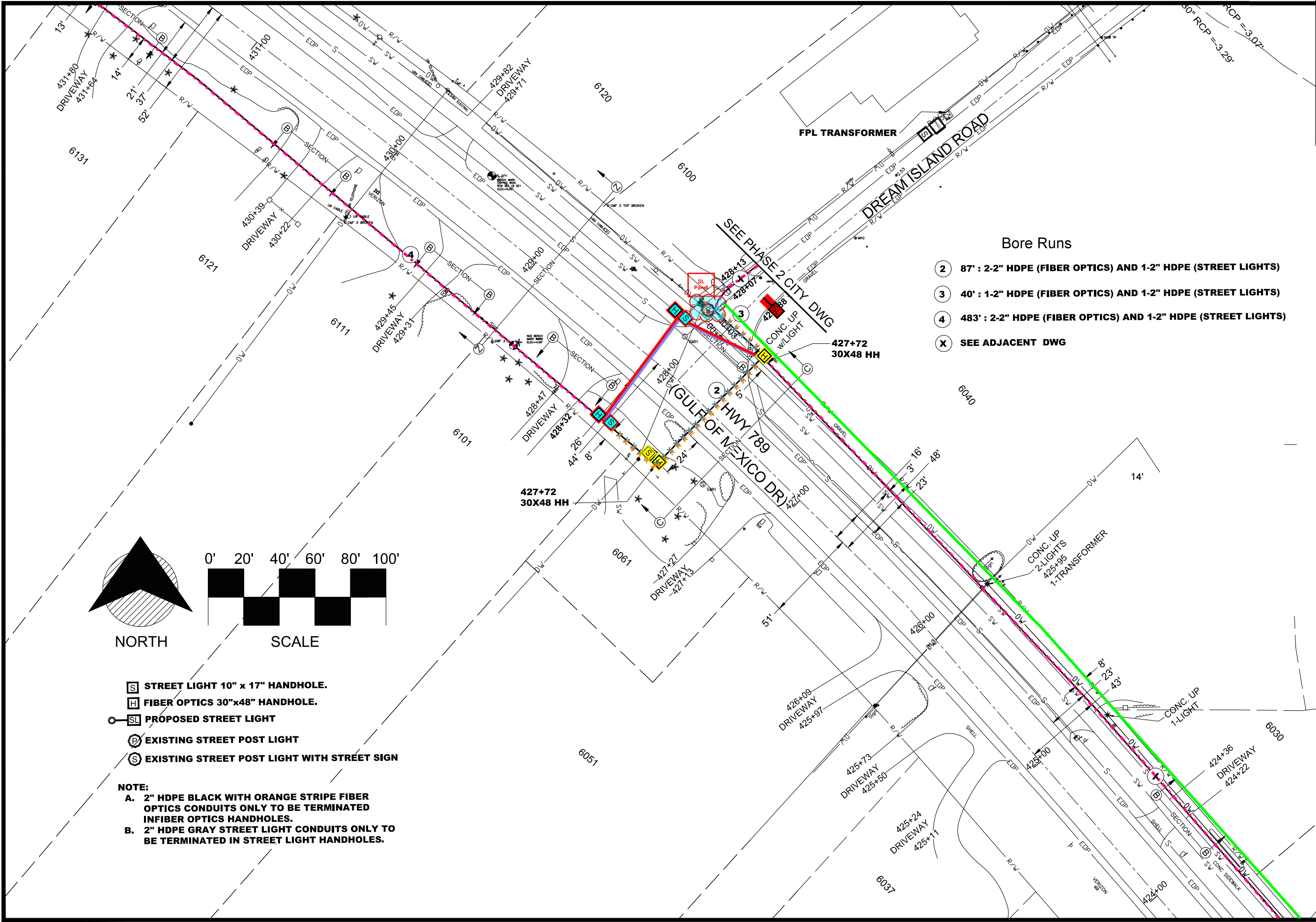


- S** STREET LIGHT 10" x 17" HANDHOLE.
- H** FIBER OPTICS 30"x48" HANDHOLE.
- SL** PROPOSED STREET LIGHT
- P** EXISTING STREET POST LIGHT
- S** EXISTING STREET POST LIGHT WITH STREET SIGN

NOTE:
A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.

SEE PHASE 4 HWY DWG

MATCHLINE-STA 431+36
FOR CONTINUATION SEE SHEET 3



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DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
LONGBOAT KEY, FLORIDA

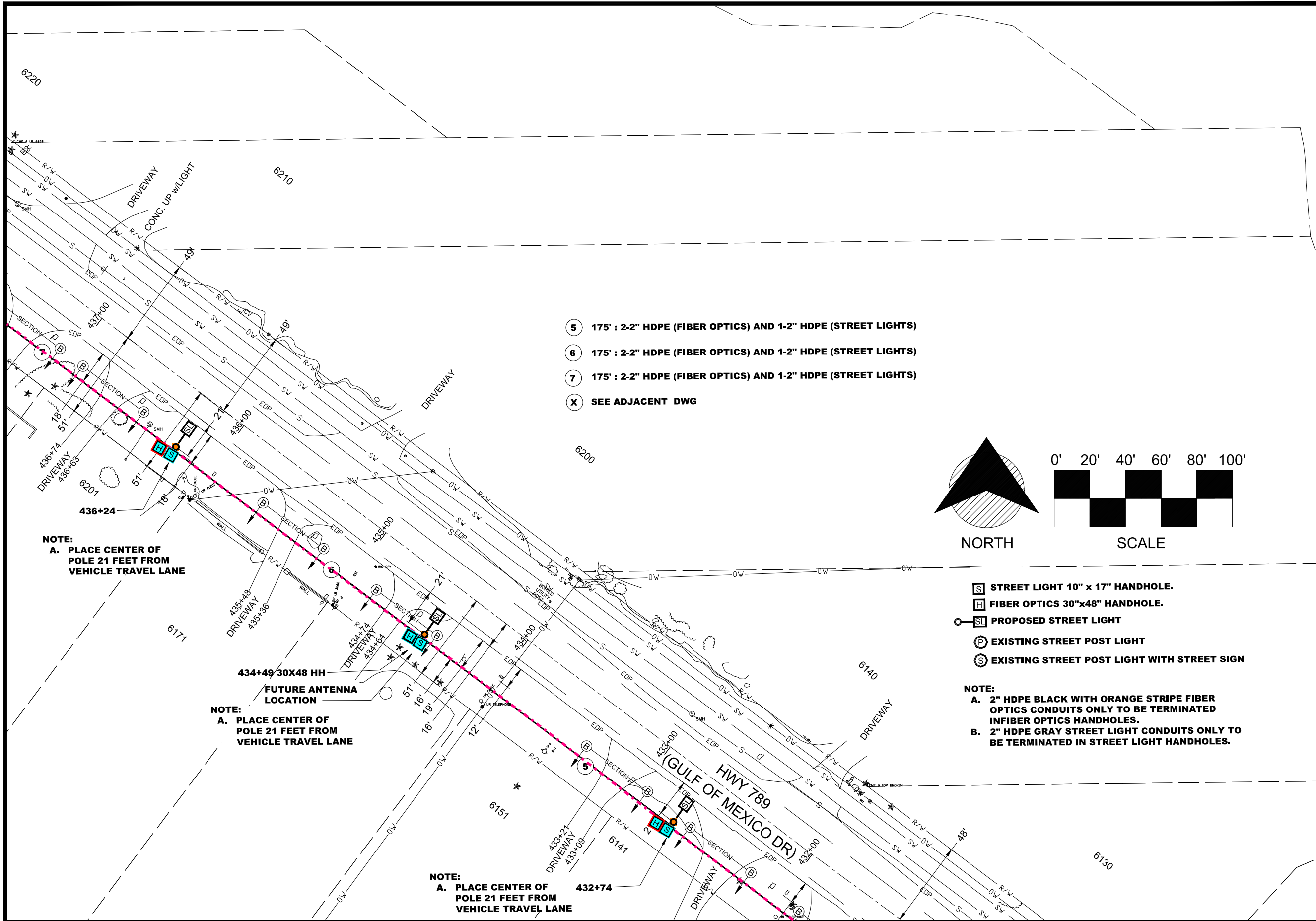


Date: 10/22/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job # 2014-LBK
Sheet

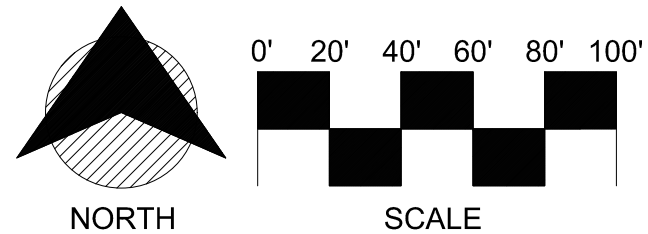
G2 OF 16

MATCHLINE-STA 423+82
FOR CONTINUATION SEE SHEET 1

MATCHLINE-STA 437+68
FOR CONTINUATION SEE SHEET 4



- ⑤ 175' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ⑥ 175' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ⑦ 175' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ⓧ SEE ADJACENT DWG



NOTE:
A. PLACE CENTER OF POLE 21 FEET FROM VEHICLE TRAVEL LANE

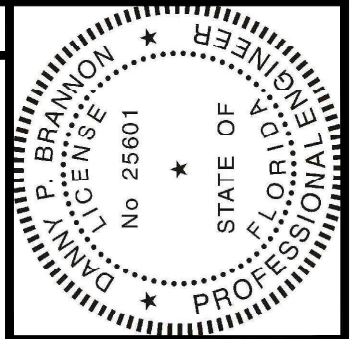
NOTE:
A. PLACE CENTER OF POLE 21 FEET FROM VEHICLE TRAVEL LANE

NOTE:
A. PLACE CENTER OF POLE 21 FEET FROM VEHICLE TRAVEL LANE

- Ⓜ STREET LIGHT 10" x 17" HANDHOLE.
- Ⓜ FIBER OPTICS 30"x48" HANDHOLE.
- Ⓜ PROPOSED STREET LIGHT
- Ⓜ EXISTING STREET POST LIGHT
- Ⓜ EXISTING STREET POST LIGHT WITH STREET SIGN

NOTE:
A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.

MATCHLINE-STA 431+36
FOR CONTINUATION SEE SHEET 2



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Town of Longboat Key

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Consulting Engineers
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(561) 847-4435 CA# 6784

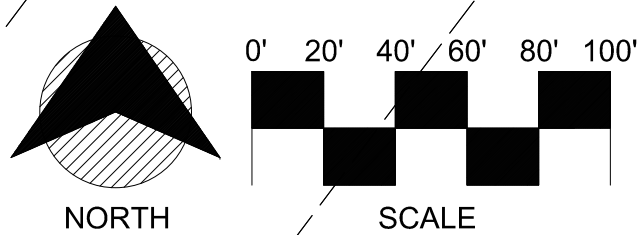
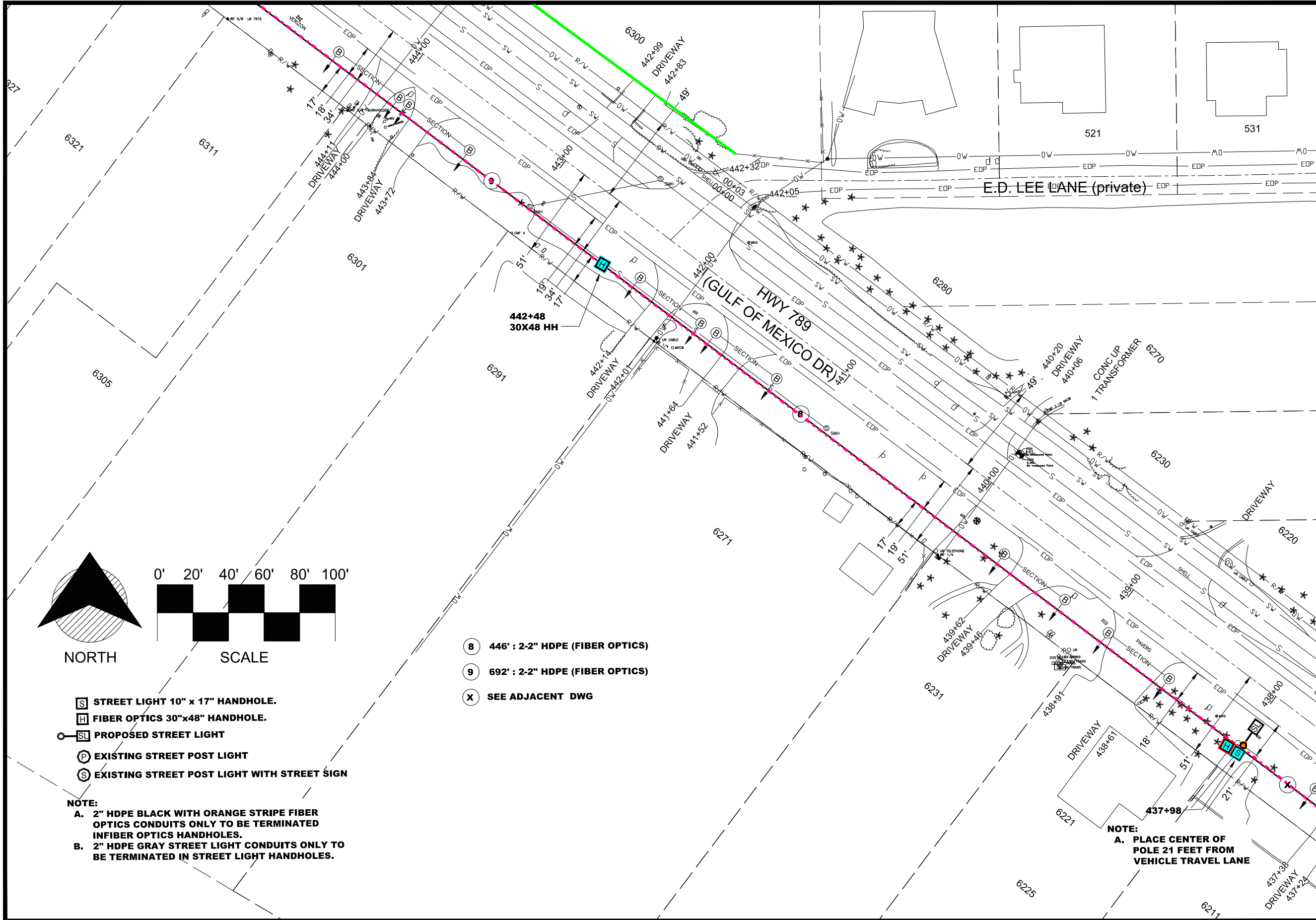
DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
LONGBOAT KEY, FLORIDA



Date: 10/22/2020
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Sheet
G3 OF 16

MATCHLINE-STA 444+50
FOR CONTINUATION SEE SHEET 5

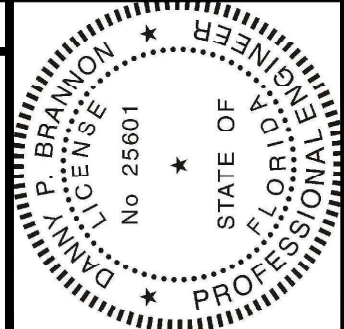


- S STREET LIGHT 10" x 17" HANDHOLE.
- H FIBER OPTICS 30"x48" HANDHOLE.
- SL PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- S EXISTING STREET POST LIGHT WITH STREET SIGN

NOTE:
A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.

- 8 446' : 2-2" HDPE (FIBER OPTICS)
- 9 692' : 2-2" HDPE (FIBER OPTICS)
- X SEE ADJACENT DWG

NOTE:
A. PLACE CENTER OF POLE 21 FEET FROM VEHICLE TRAVEL LANE



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 FLORIDA P. E. NO. 25601
 DATE 11/16/2020

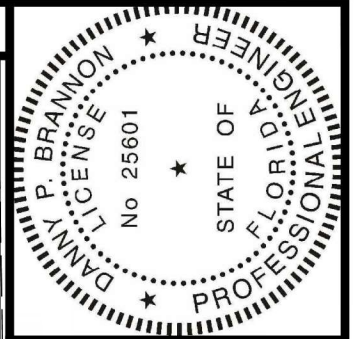
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DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



MATCHLINE-STA 437+68
FOR CONTINUATION SEE SHEET 3

Date:	10/22/2020
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Checked:	DPB
Job #	2014-LBK
Sheet	

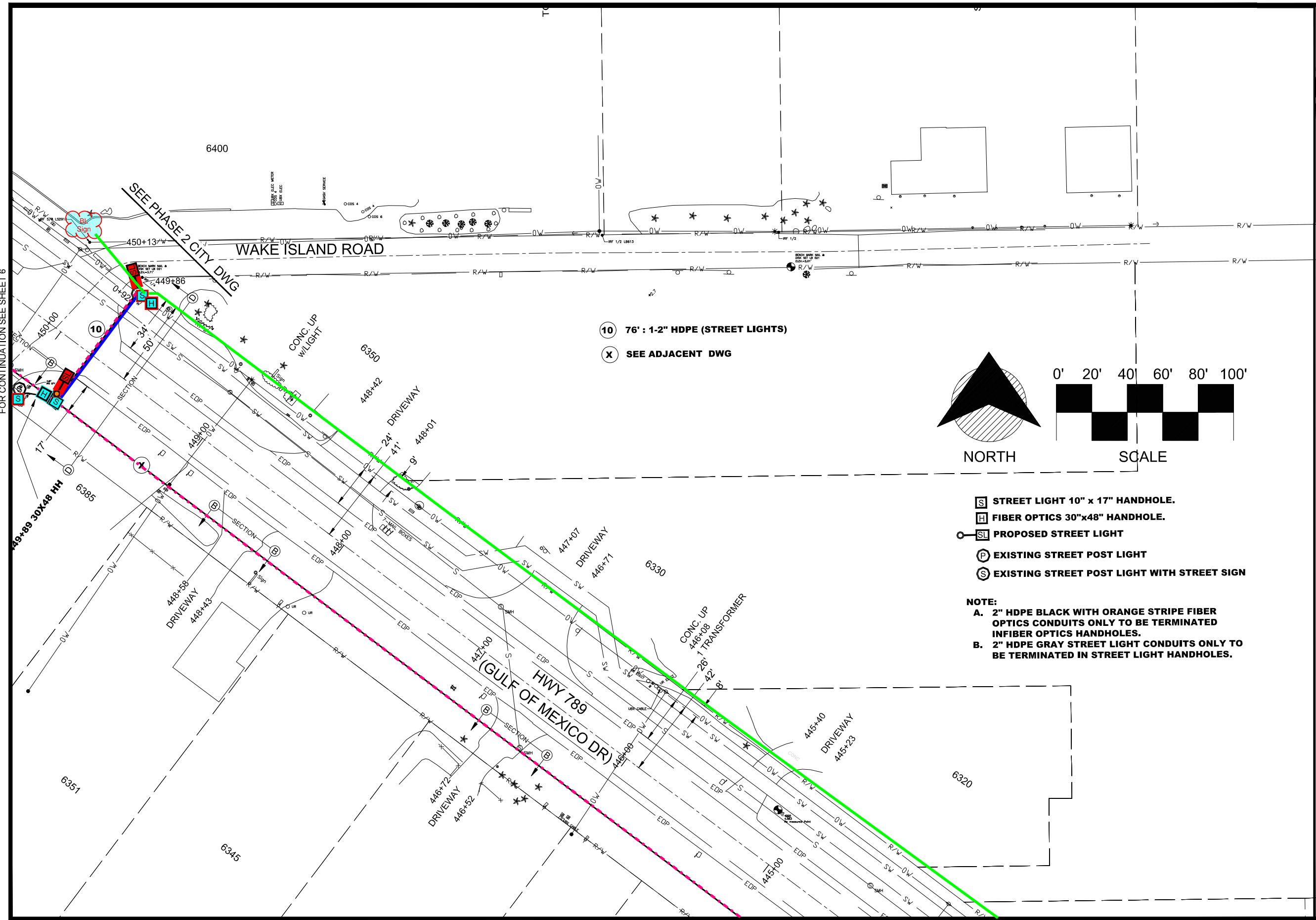


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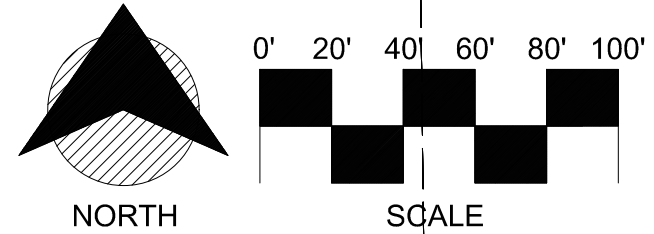
DANNY P. BRANNON, P. E.
 FLORIDA P. E. NO. 25601

DATE 11/16/2020

MATCHLINE-STA 449+99
 FOR CONTINUATION SEE SHEET 6



- ⑩ 76' : 1-2" HDPE (STREET LIGHTS)
- ⊗ SEE ADJACENT DWG



- Ⓢ STREET LIGHT 10" x 17" HANDHOLE.
- Ⓜ FIBER OPTICS 30"x48" HANDHOLE.
- Ⓛ PROPOSED STREET LIGHT
- Ⓟ EXISTING STREET POST LIGHT
- Ⓢ EXISTING STREET POST LIGHT WITH STREET SIGN

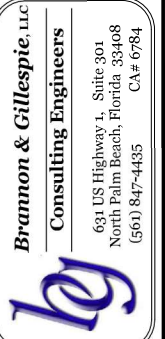
NOTE:

A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.

B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.

MATCHLINE-STA 444+50
 FOR CONTINUATION SEE SHEET 4

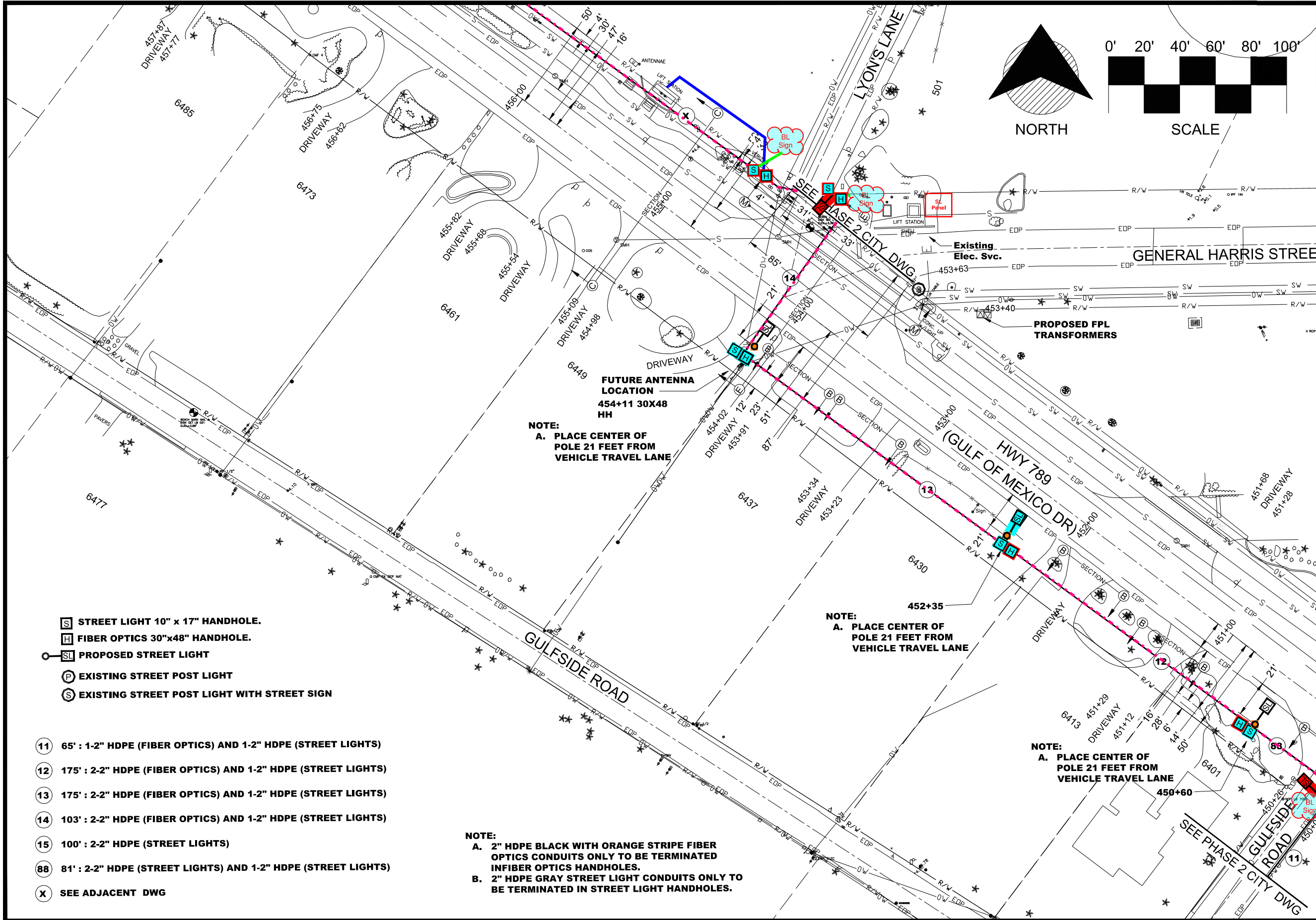
Town of Longboat Key



DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



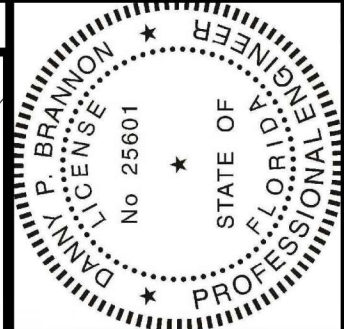
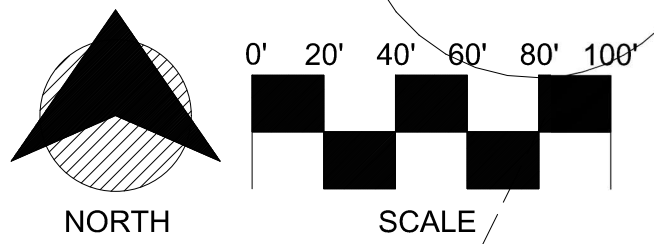
Date:	10/22/2020
Scale:	AS NOTED
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Job #	2014-LBK
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- S** STREET LIGHT 10" x 17" HANDHOLE.
- H** FIBER OPTICS 30"x48" HANDHOLE.
- SL** PROPOSED STREET LIGHT
- P** EXISTING STREET POST LIGHT
- S** EXISTING STREET POST LIGHT WITH STREET SIGN

- 11** 65' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 12** 175' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 13** 175' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 14** 103' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 15** 100' : 2-2" HDPE (STREET LIGHTS)
- 88** 81' : 2-2" HDPE (STREET LIGHTS) AND 1-2" HDPE (STREET LIGHTS)
- X** SEE ADJACENT DWG

NOTE:
A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.



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 FLORIDA P. E. NO. 25601

DATE 11/16/2020

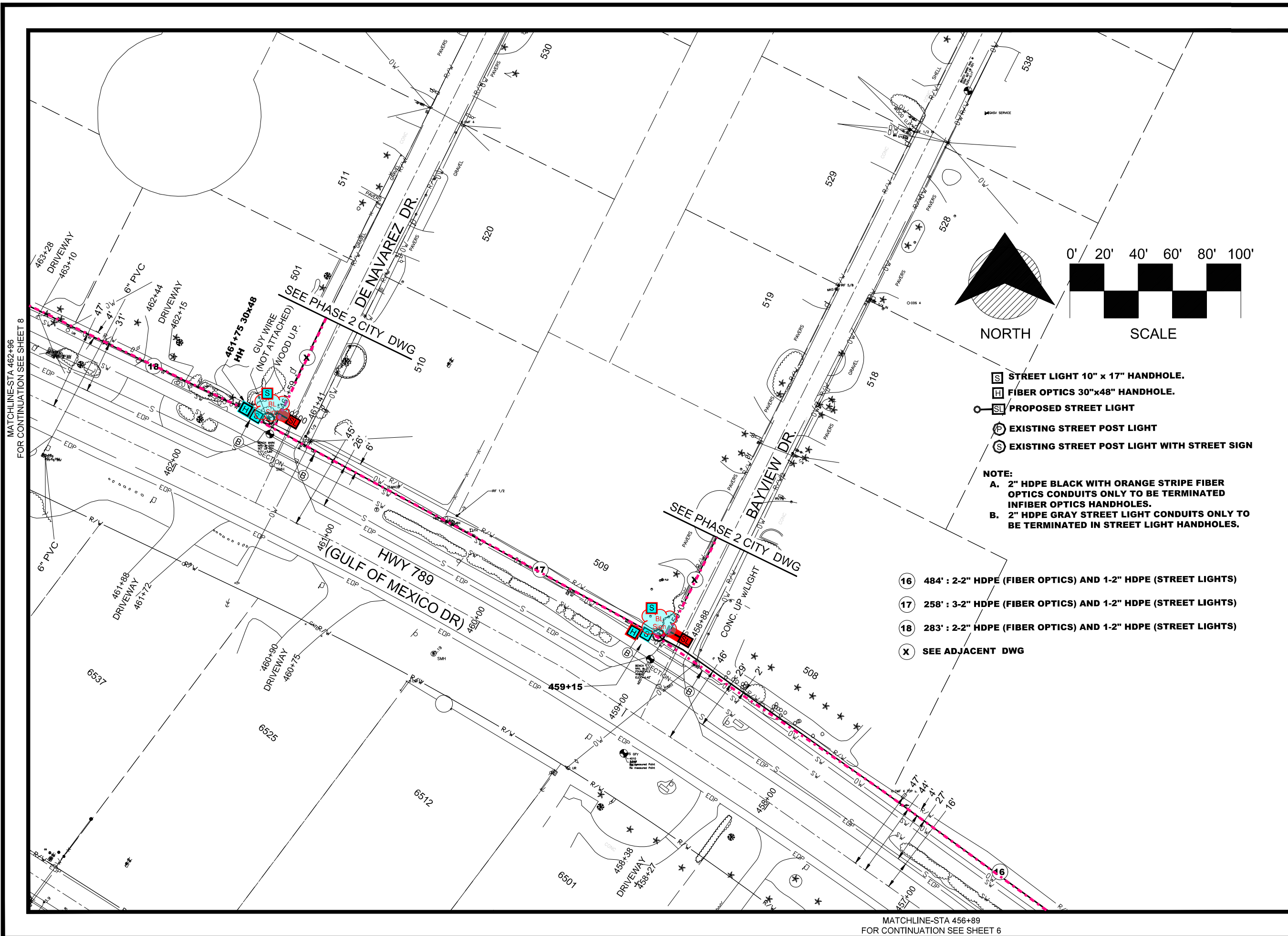


DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



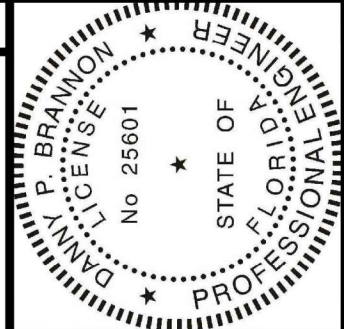
MATCHLINE-STA 449+99 FOR CONTINUATION SEE SHEET 5

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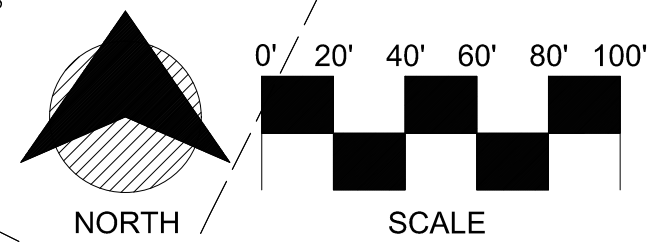
MATCHLINE-STA 462+96
FOR CONTINUATION SEE SHEET 8

MATCHLINE-STA 456+89
FOR CONTINUATION SEE SHEET 6



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 DATE 11/16/2020



- S STREET LIGHT 10" x 17" HANDHOLE.
- H FIBER OPTICS 30"x48" HANDHOLE.
- SL PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- PS EXISTING STREET POST LIGHT WITH STREET SIGN

NOTE:
 A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
 B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.

- 16 484' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 17 258' : 3-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 18 283' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- X SEE ADJACENT DWG

Town of Longboat Key

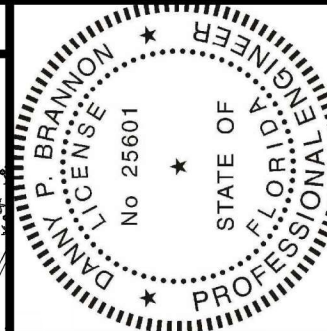


DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



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MATCHLINE-STA 470+33
FOR CONTINUATION SEE SHEET 9



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FLORIDA P. E. NO. 25601

DATE 11/16/2020



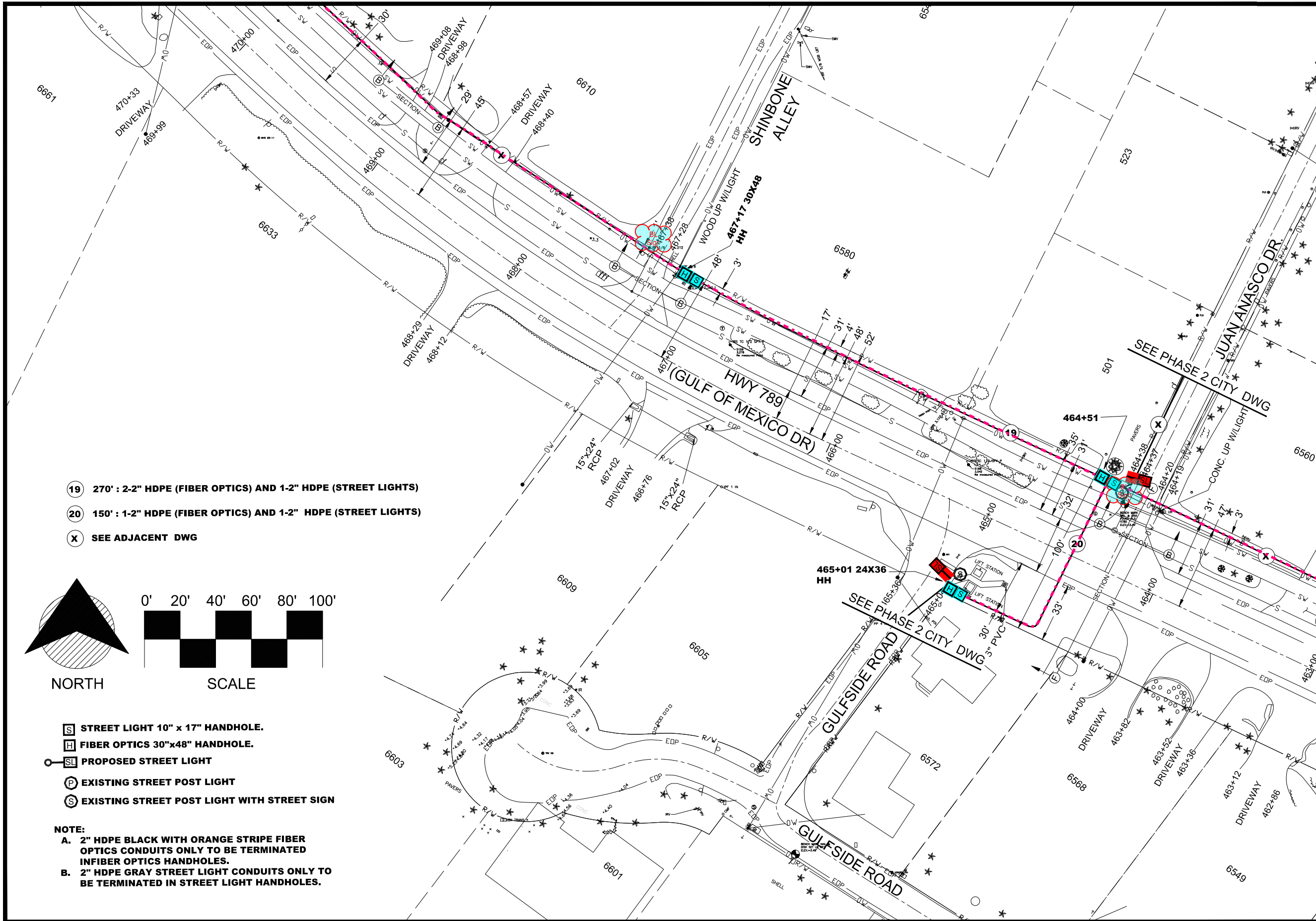
BRANNON & GILLESPIE, LLC
Consulting Engineers
631 US Highway 1, Suite 301
North Palm Beach, Florida 33408
(561) 847-4485 CA# 6784



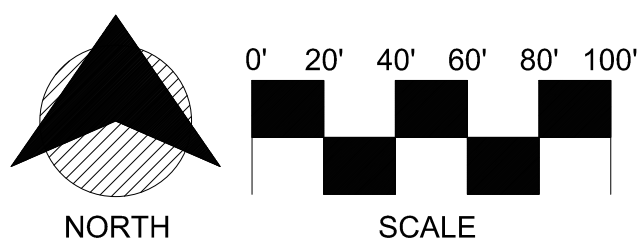
Date: 10/22/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job # 2014-LBK
Sheet

G8 OF 16

MATCHLINE-STA 462+96
FOR CONTINUATION SEE SHEET 7



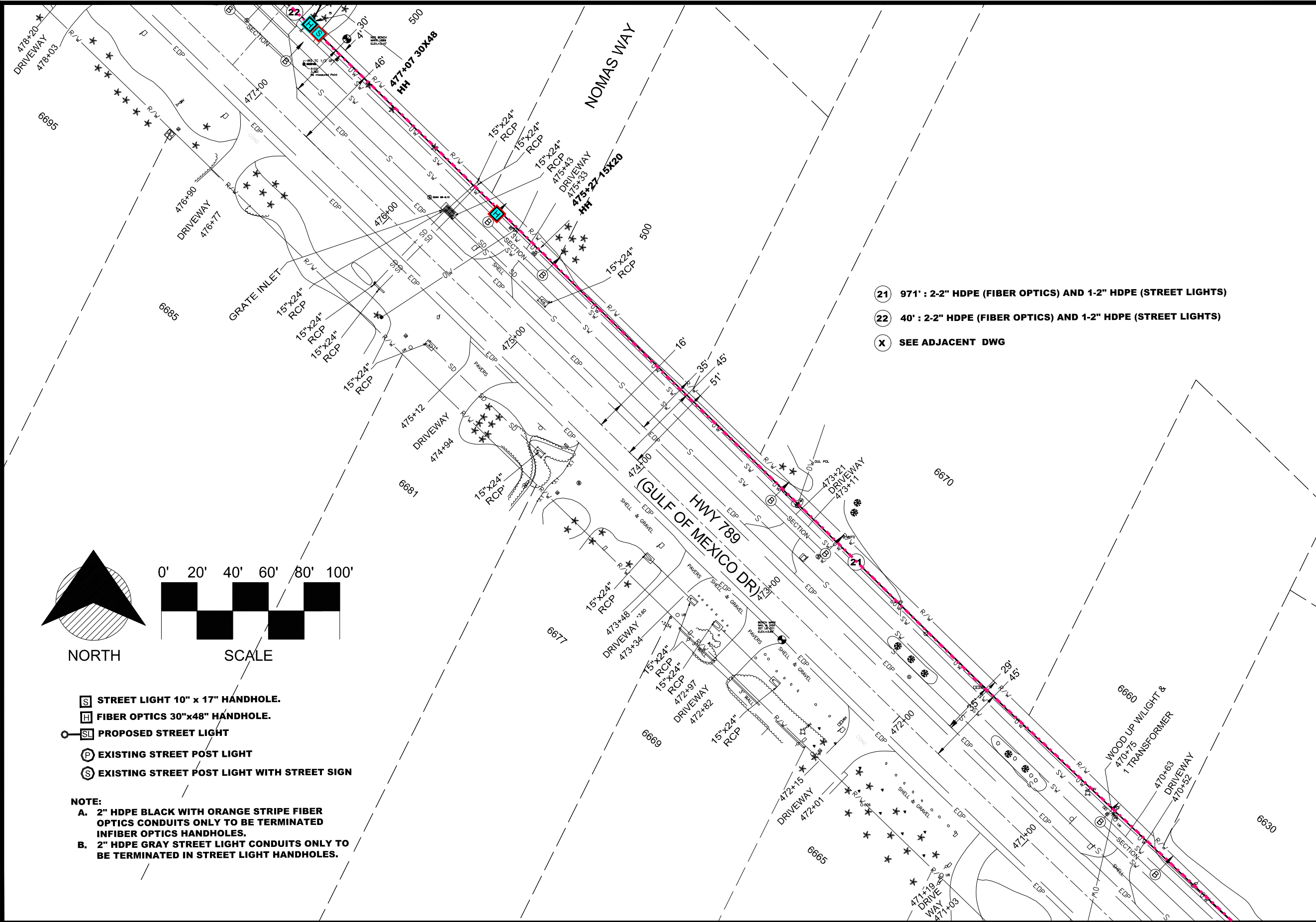
- 19 270' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 20 150' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- X SEE ADJACENT DWG



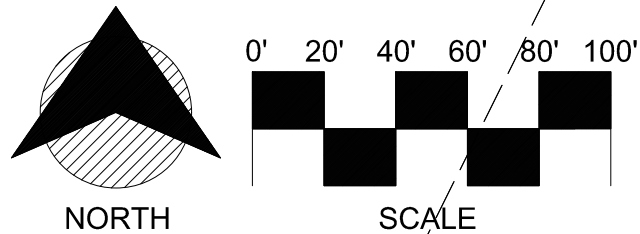
- S STREET LIGHT 10" x 17" HANDHOLE.
- H FIBER OPTICS 30"x48" HANDHOLE.
- PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- ⊙ EXISTING STREET POST LIGHT WITH STREET SIGN

NOTE:
A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.

MATCHLINE-STA 477+73
FOR CONTINUATION SEE SHEET 10



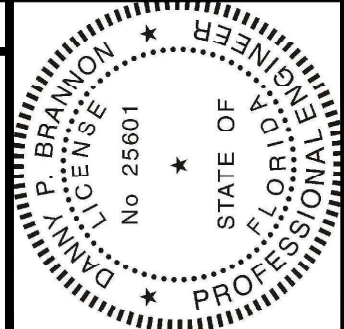
- 21 971' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 22 40' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- X SEE ADJACENT DWG



- S STREET LIGHT 10" x 17" HANDHOLE.
- F FIBER OPTICS 30"x48" HANDHOLE.
- SL PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- S EXISTING STREET POST LIGHT WITH STREET SIGN

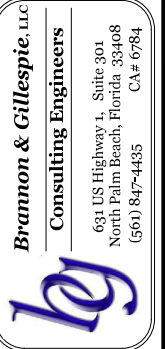
NOTE:
A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.

MATCHLINE-STA 470+33
FOR CONTINUATION SEE SHEET 8



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 11:03:13 -05'00'
 DANNY P. BRANNON, P. E.
 FLORIDA P. E. NO. 25601
 DATE 11/16/2020

Town of Longboat Key



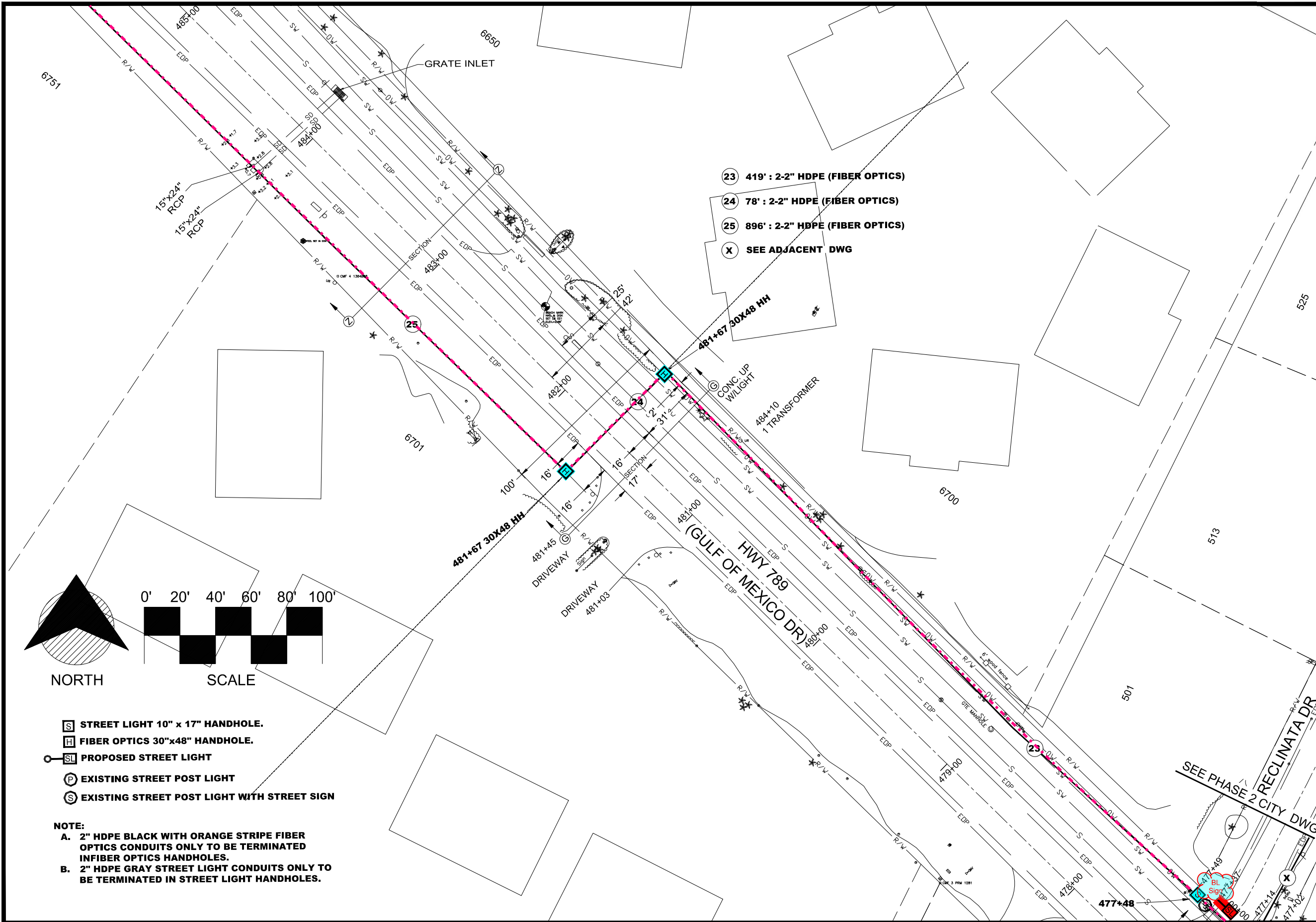
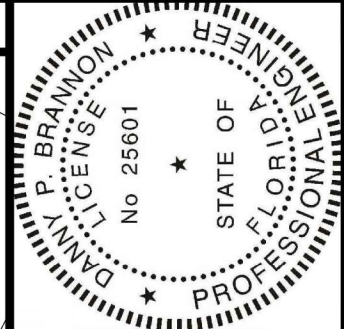
DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



Date: 10/22/2020
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Sheet
G9 OF 16

MATCHLINE-STA 485+07
FOR CONTINUATION SEE SHEET 11



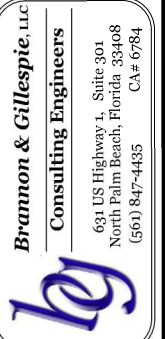
- 23 419' : 2-2" HDPE (FIBER OPTICS)
- 24 78' : 2-2" HDPE (FIBER OPTICS)
- 25 896' : 2-2" HDPE (FIBER OPTICS)
- X SEE ADJACENT DWG

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Danny P Brannon
Date: 2020.11.16
11:03:13 -05'00'

Danny P. Brannon

DANNY P. BRANNON, P. E.
FLORIDA P. E. NO. 25601

DATE 11/16/2020



Town of Longboat Key

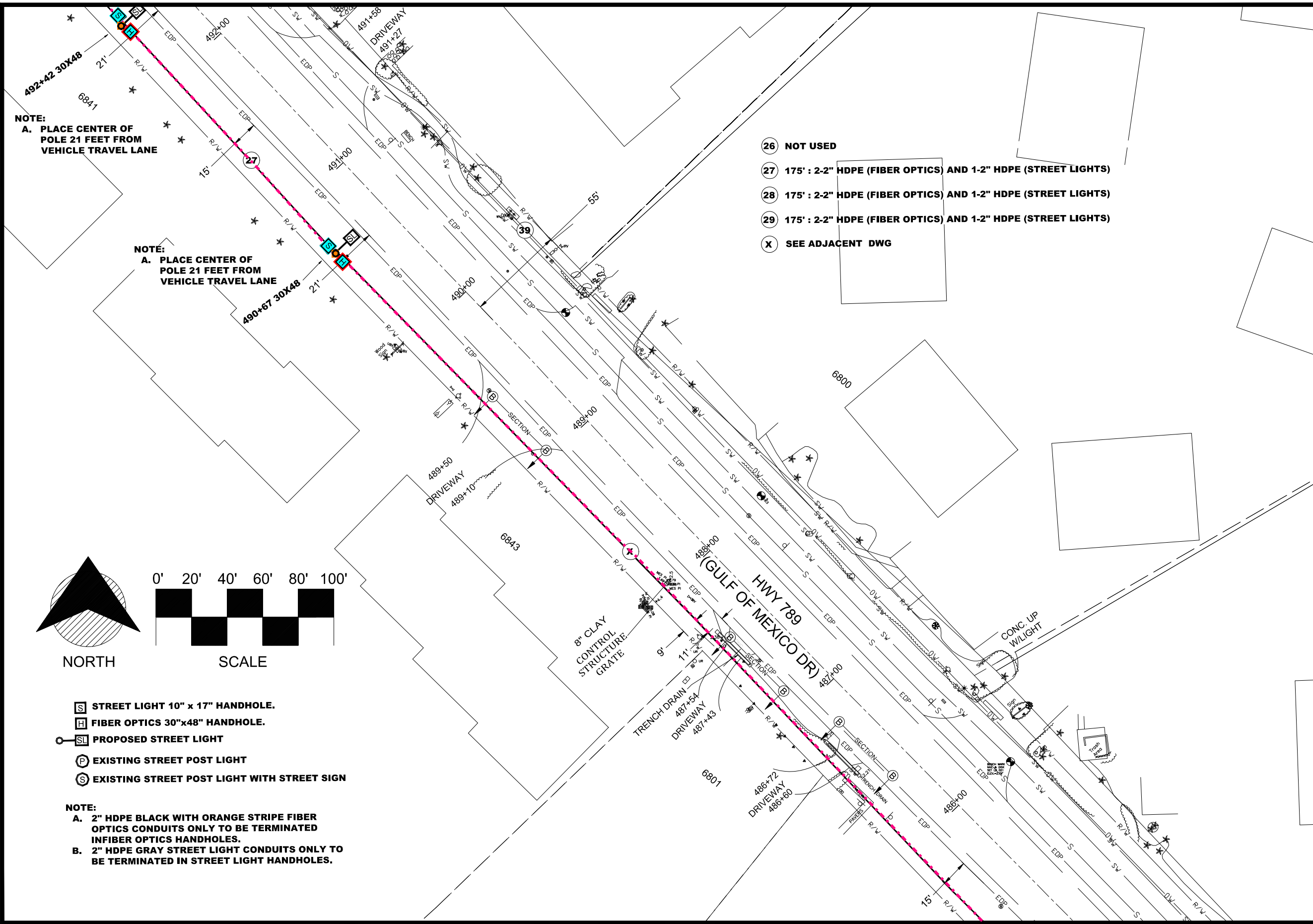
DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
LONGBOAT KEY, FLORIDA



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Drawn:	DPB
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Job #	2014-LBK
Sheet	

MATCHLINE-STA 477+73
FOR CONTINUATION SEE SHEET 9

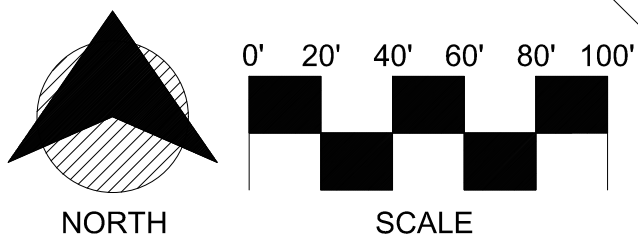
MATCHLINE-STA 492+22
FOR CONTINUATION SEE SHEET 12



NOTE:
A. PLACE CENTER OF POLE 21 FEET FROM VEHICLE TRAVEL LANE

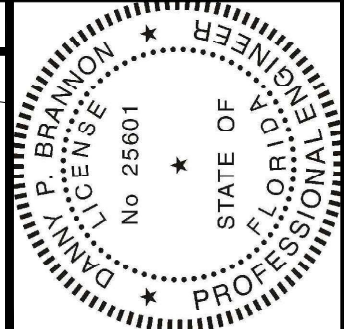
NOTE:
A. PLACE CENTER OF POLE 21 FEET FROM VEHICLE TRAVEL LANE

- (26) NOT USED
- (27) 175' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- (28) 175' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- (29) 175' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- (X) SEE ADJACENT DWG



- [S] STREET LIGHT 10" x 17" HANDHOLE.
- [H] FIBER OPTICS 30"x48" HANDHOLE.
- [SL] PROPOSED STREET LIGHT
- [P] EXISTING STREET POST LIGHT
- [S] EXISTING STREET POST LIGHT WITH STREET SIGN

NOTE:
A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.

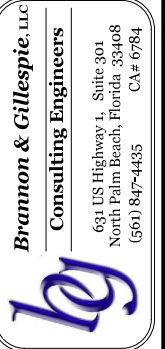


Digitally signed by
Danny P Brannon
Date: 2020.11.16
11:03:13 -05'00'

DANNY P. BRANNON, P. E.
FLORIDA P. E. NO. 25601

DATE 11/16/2020

Town of Longboat Key



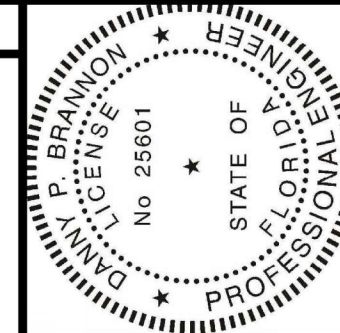
DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
LONGBOAT KEY, FLORIDA



Date: 10/22/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job #: 2014-LBK
Sheet

MATCHLINE-STA 485+07
FOR CONTINUATION SEE SHEET 10

MATCHLINE-STA 498+56
FOR CONTINUATION SEE SHEET 13



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Town of Longboat Key

Brammon & Gillespie, LLC
Consulting Engineers

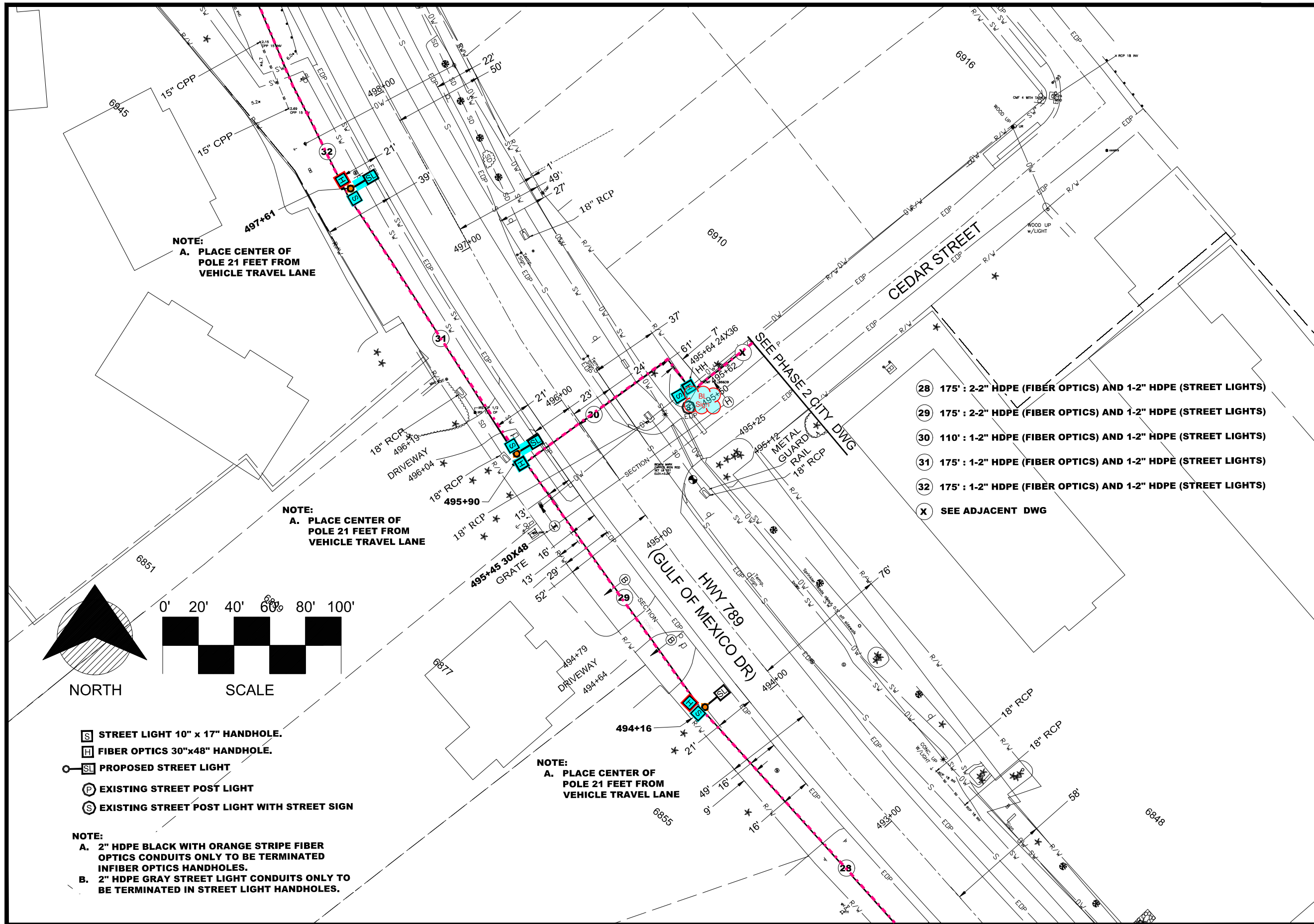
631 US Highway 1, Suite 301
North Palm Beach, Florida 33408
(561) 847-4485 CA# 6784

DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
LONGBOAT KEY, FLORIDA



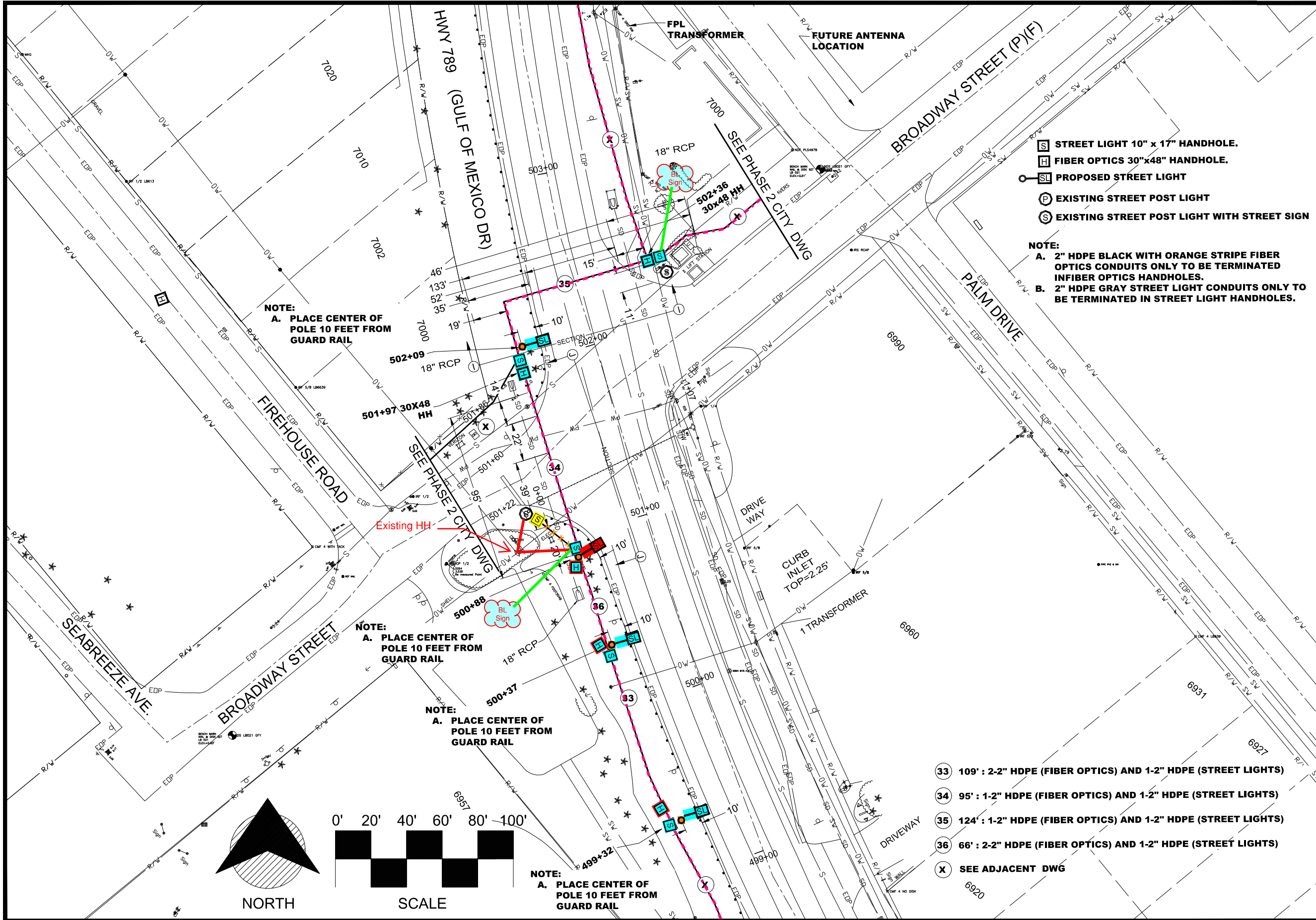
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Scale: AS NOTED
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Checked: DPB
Job # 2014-LBK
Sheet

G12 OF 16



MATCHLINE-STA 492+22
FOR CONTINUATION SEE SHEET 11

MATCHLINE-STA 503+97
FOR CONTINUATION SEE SHEET 14



- STREET LIGHT 10" x 17" HANDHOLE.
- FIBER OPTICS 30"x48" HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN

NOTE:
A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED INFIBER OPTICS HANDHOLES.
B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.

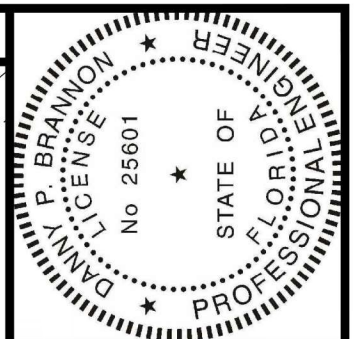
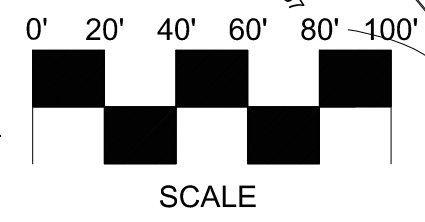
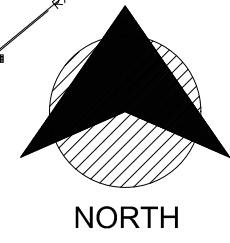
NOTE:
A. PLACE CENTER OF POLE 10 FEET FROM GUARD RAIL

NOTE:
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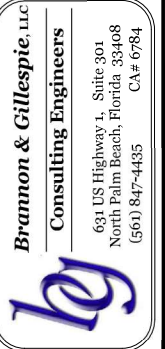
- 109' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 95' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 124' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 66' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- SEE ADJACENT DWG



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 Danny P Brannon
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 11:03:13 -05'00'

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 FLORIDA P. E. NO. 25601
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Town of Longboat Key



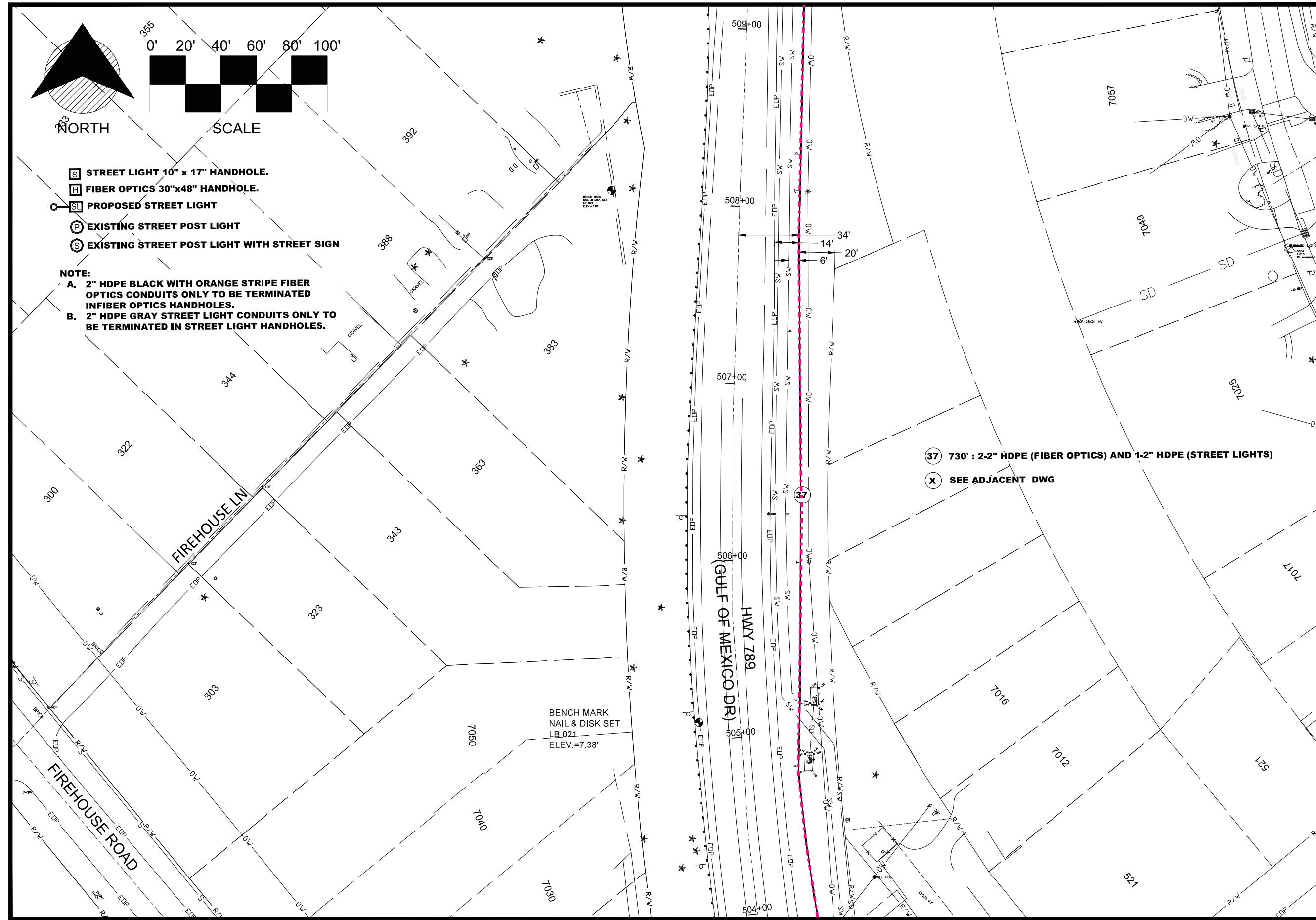
DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



Date:	10/22/2020
Scale:	AS NOTED
Drawn:	DPB
Checked:	DPB
Job #	2014-LBK
Sheet	

MATCHLINE-STA 498+56
FOR CONTINUATION SEE SHEET 12

MATCHLINE-STA 509+14
FOR CONTINUATION SEE SHEET 15



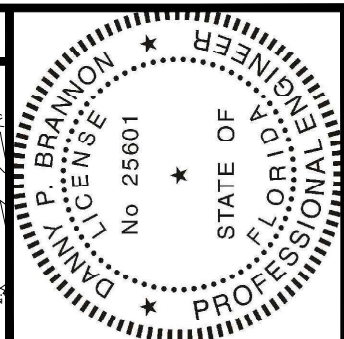
- STREET LIGHT 10" x 17" HANDHOLE.
- FIBER OPTICS 30"x48" HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN

NOTE:
A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.

- 730' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- SEE ADJACENT DWG

BENCH MARK
NAIL & DISK SET
LB.021
ELEV.=7.38'

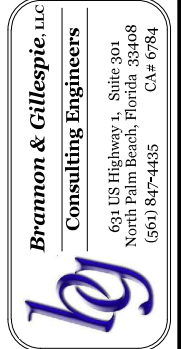
MATCHLINE-STA 503+97
FOR CONTINUATION SEE SHEET 13



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 11:03:13 -05'00'

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Town of Longboat Key

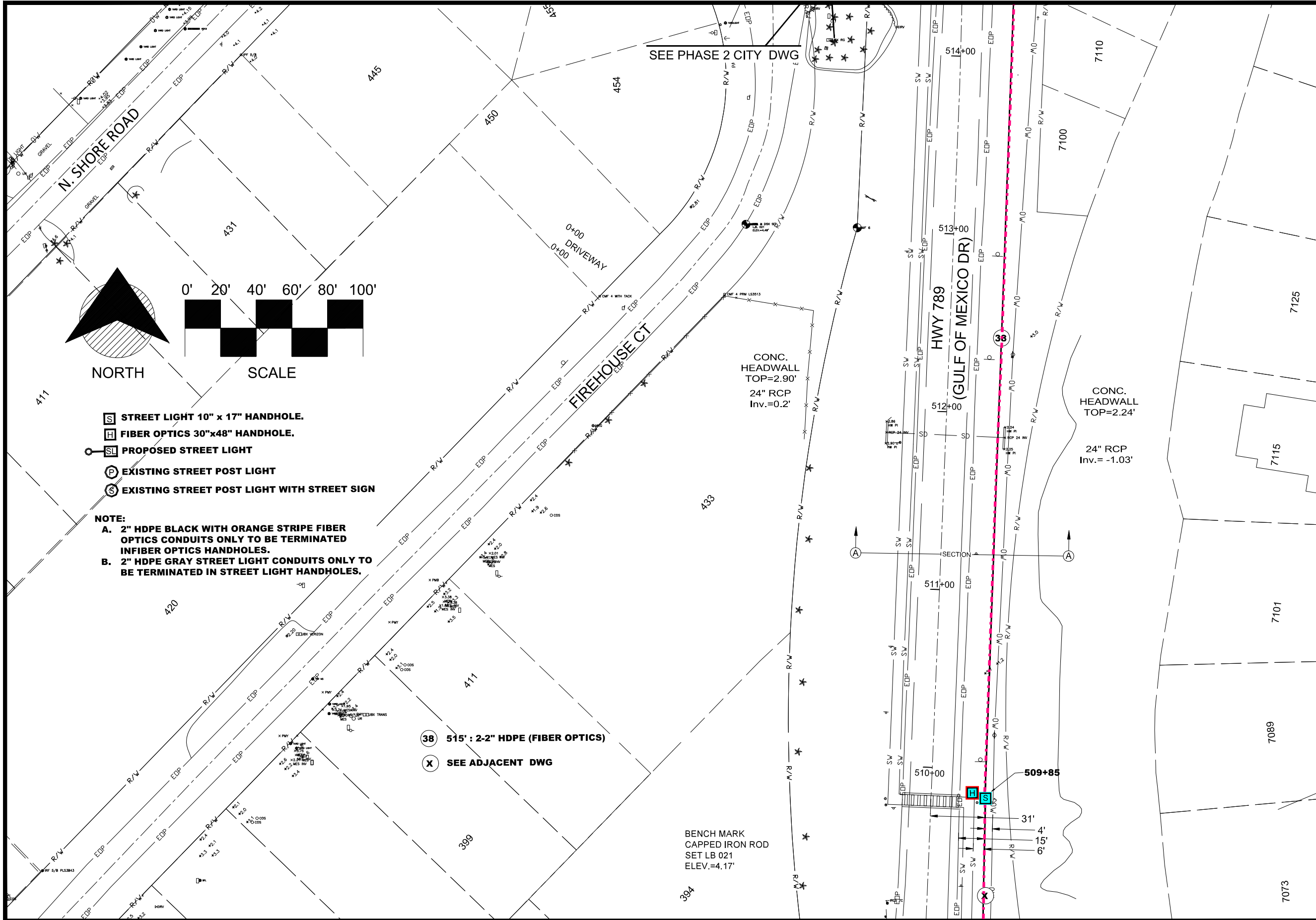


DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



Date:	10/22/2020
Scale:	AS NOTED
Drawn:	DPB
Checked:	DPB
Job #	2014-LBK
Sheet	

MATCHLINE-STA 514+30
FOR CONTINUATION SEE SHEET 16



SEE PHASE 2 CITY DWG

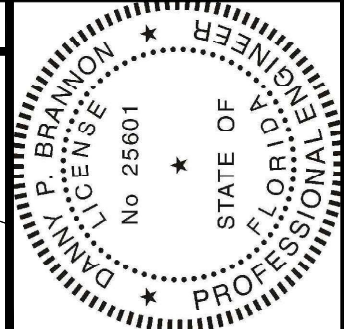
- STREET LIGHT 10" x 17" HANDHOLE.
- FIBER OPTICS 30"x48" HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN

NOTE:
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B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.

- 515' : 2-2" HDPE (FIBER OPTICS)
- SEE ADJACENT DWG

BENCH MARK
 CAPPED IRON ROD
 SET LB 021
 ELEV.=4.17'

MATCHLINE-STA 509+14
FOR CONTINUATION SEE SHEET 14



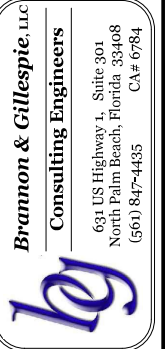
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Danny Brannon

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 FLORIDA P. E. NO. 25601

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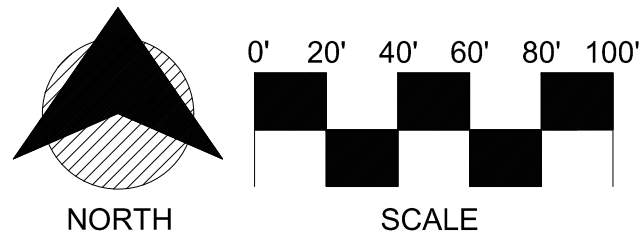
Town of Longboat Key



DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



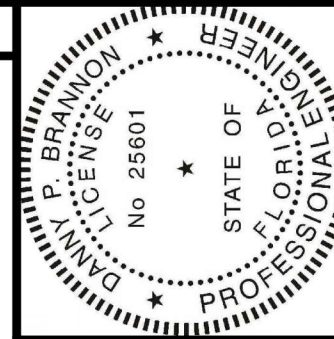
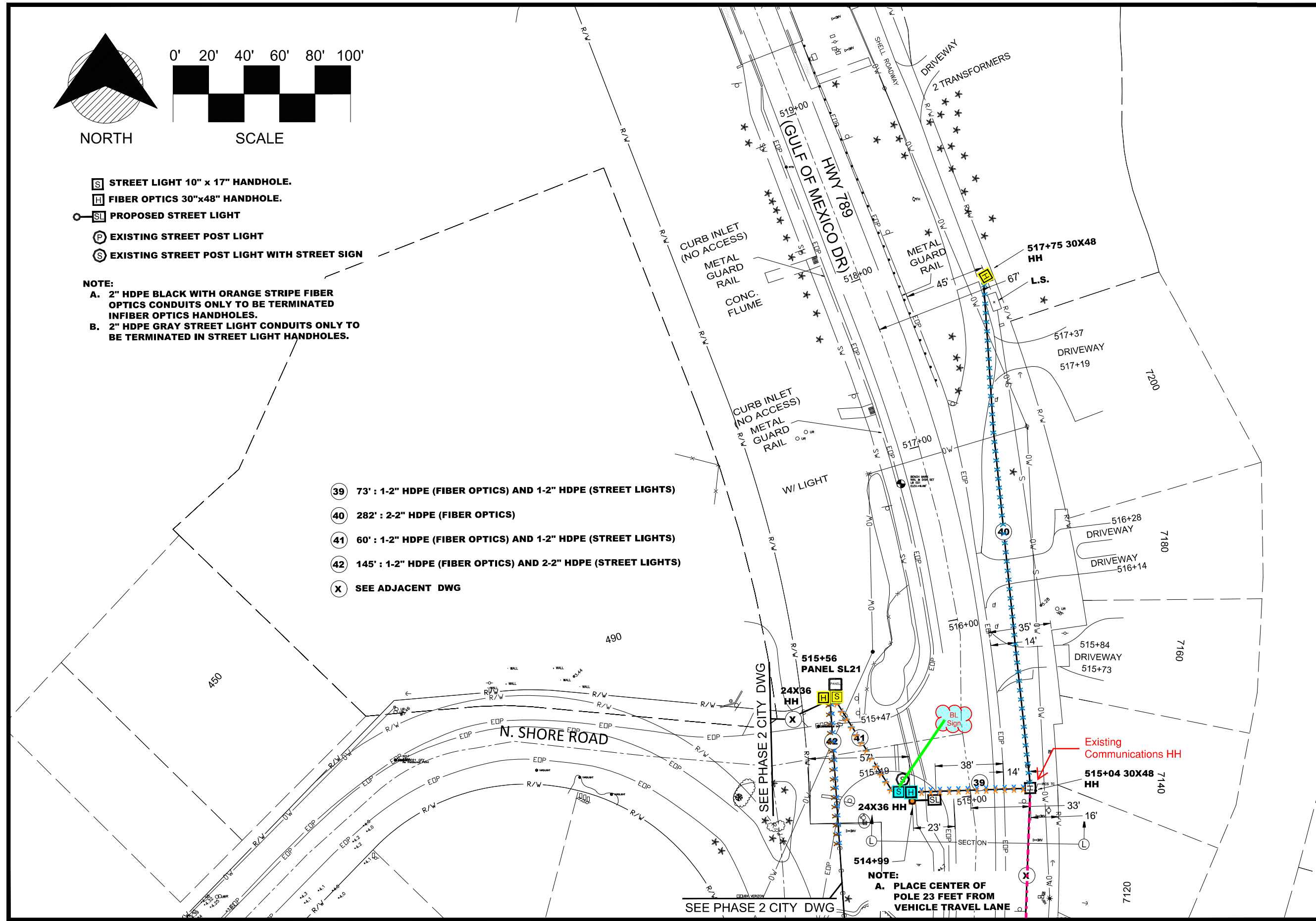
Date: 10/22/2020
 Scale: AS NOTED
 Drawn: DPB
 Checked: DPB
 Job #: 2014-LBK
 Sheet



- S STREET LIGHT 10" x 17" HANDHOLE.
- H FIBER OPTICS 30"x48" HANDHOLE.
- SL PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- S EXISTING STREET POST LIGHT WITH STREET SIGN

NOTE:
 A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
 B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.

- 39 73' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 40 282' : 2-2" HDPE (FIBER OPTICS)
- 41 60' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 42 145' : 1-2" HDPE (FIBER OPTICS) AND 2-2" HDPE (STREET LIGHTS)
- X SEE ADJACENT DWG

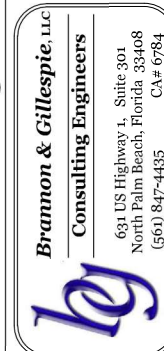


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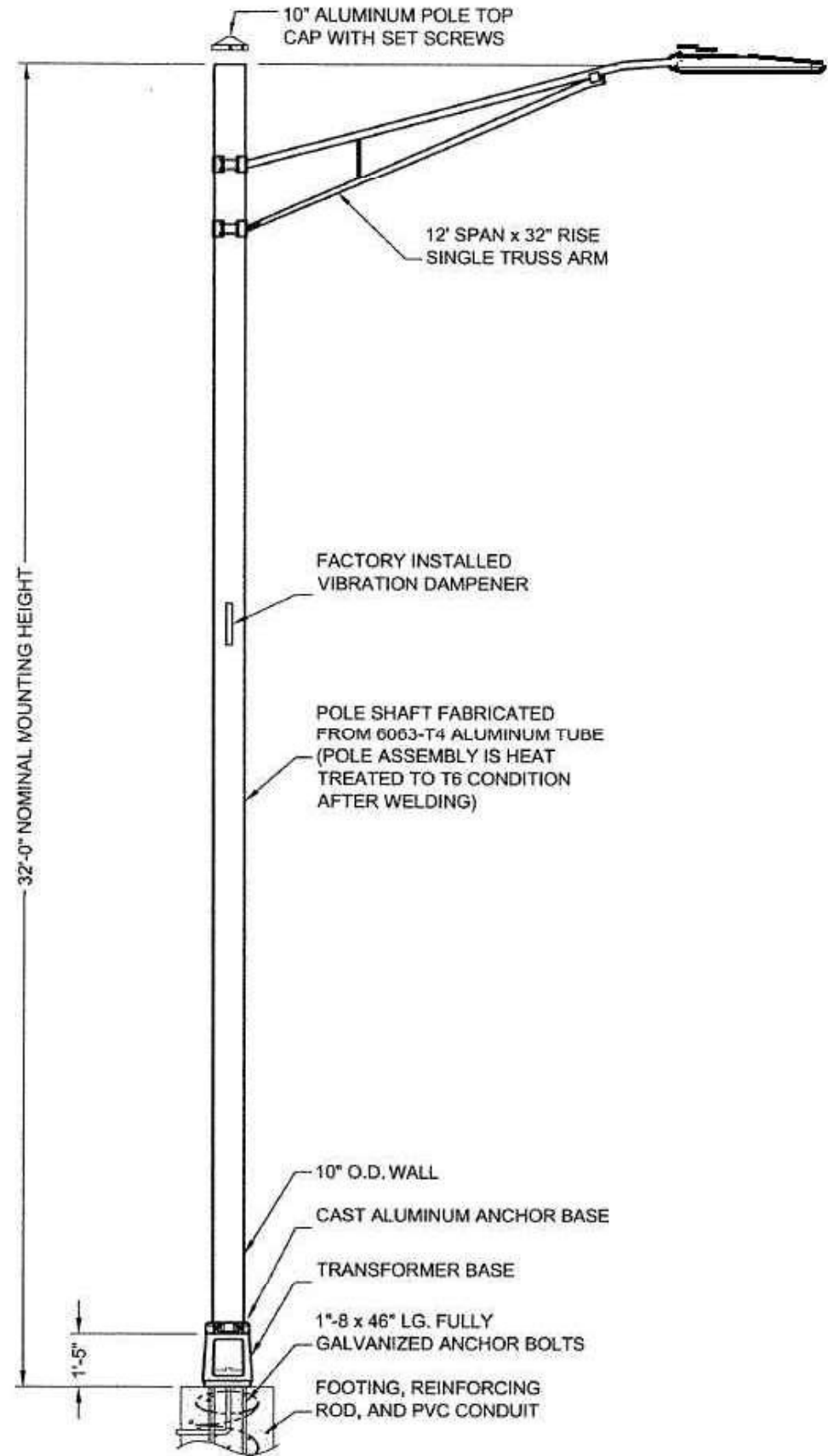
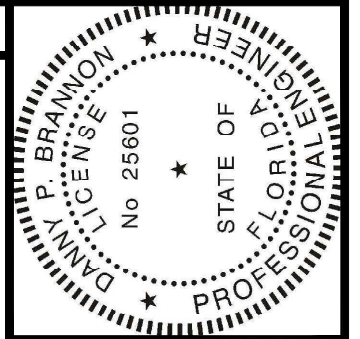
Town of Longboat Key



DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



Date:	10/22/2020
Scale:	AS NOTED
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Job #	2014-LBK
Sheet	



GMD STREET LIGHTS

- Pole Material - Aluminum
- Pole Type - Straight round
- Fixture Mounting Height - 32' maximum
- Pole Color - Black Powder Coat
- Base Type - Anchor Base
- Breakaway (Frangible) Base Option to be provided per FDOT requirements.
- Mounting Arm Length - 12'
- Luminaire Model - Phillips Road Focus cobra head LED 3K style or approved equal.
- Luminaires have house side shields where located within sight of any person observing from the beach.
- FUTURE Antenna Model - Commscope VVSSP or approved equal
- FUTURE Small Cell Model - Nokia Flexi-zone Outdoor Microcell Model FW2QQF or approved equal.
- Small Cell Mounting Height -10'
- Excess Capacity - Design to provide excess of 5 sq ft EPA for future antenna equipment loading.
- Anchor Base Design and Wind loading calculations to be provided by equipment supplier.
- Voltage to be 240V-1Ø. Ballasts to be universal type. Voltage Drop shall not exceed 5%.
- Street light tap handholes shall be 10" x 17" at Light Poles.
- Minimum size wire shall be less than #10 AWG CU THHN or approved equal.
- Minimum conduit size shall be 1" for tap to pole, and 2" for feeders.
- Where alternate luminaires are proposed, supplier shall provide FDOT compliant photometrics.
- All Luminaires to be equipped with photocell control.

Topic #625-000-002
FDOT Design Manual

January 1, 2020

Table 215.2.2 Minimum Lateral Offset Criteria

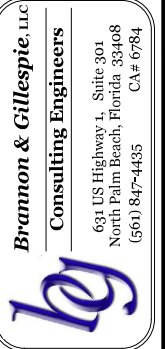
Design Element	Curbed Roadways				High Speed Curbed and Flush Shoulder Roadway
	New Construction		RRR		
	Design Speed				
	25-35 mph	40-45 mph	25-35 mph	40-45 mph	
Light Poles	Do not locate in Medians, except in conjunction with barriers that are justified for other reasons. See <i>FDM 215.2.9</i> .				
	Conventional	1.5 feet	4.0 feet	1.5 feet	1.5 feet
	High Mast	Outside Clear Zone			

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FLORIDA P. E. NO. 25601

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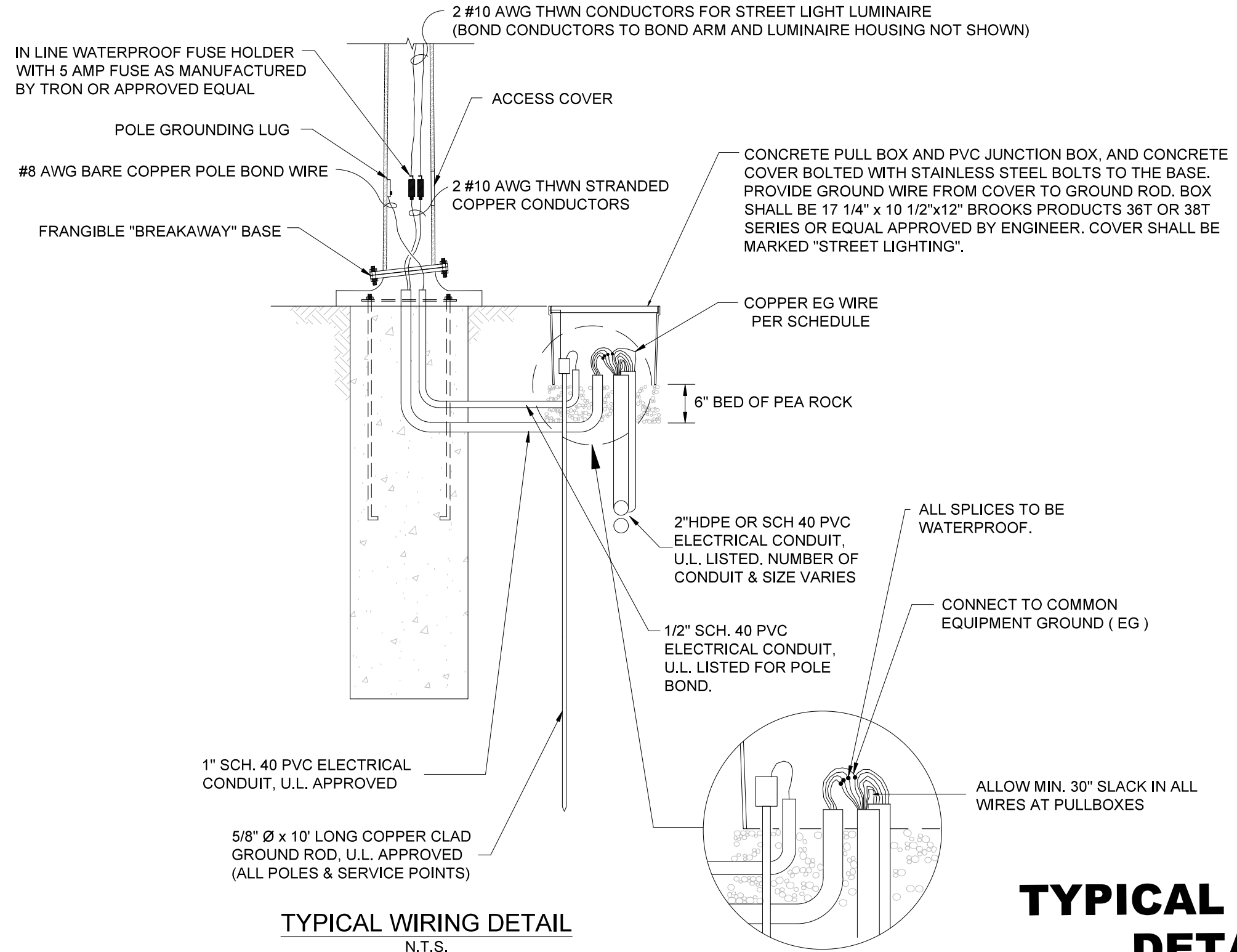
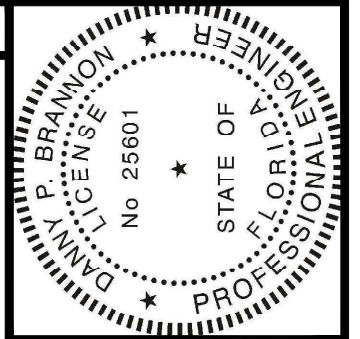


Town of Longboat Key

DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
LONGBOAT KEY, FLORIDA



Date: 10/22/2020
Scale: AS NOTED
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Checked: DPB
Job #: 2014-LBK



TYPICAL WIRING DETAIL
N.T.S.

**TYPICAL WIRING
DETAIL**

MATCHLINE-STA 514+30
FOR CONTINUATION SEE SHEET 15

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Date: 2020.11.16
11:03:13 -05'00'

Dan Brannon

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FLORIDA P. E. NO. 25601

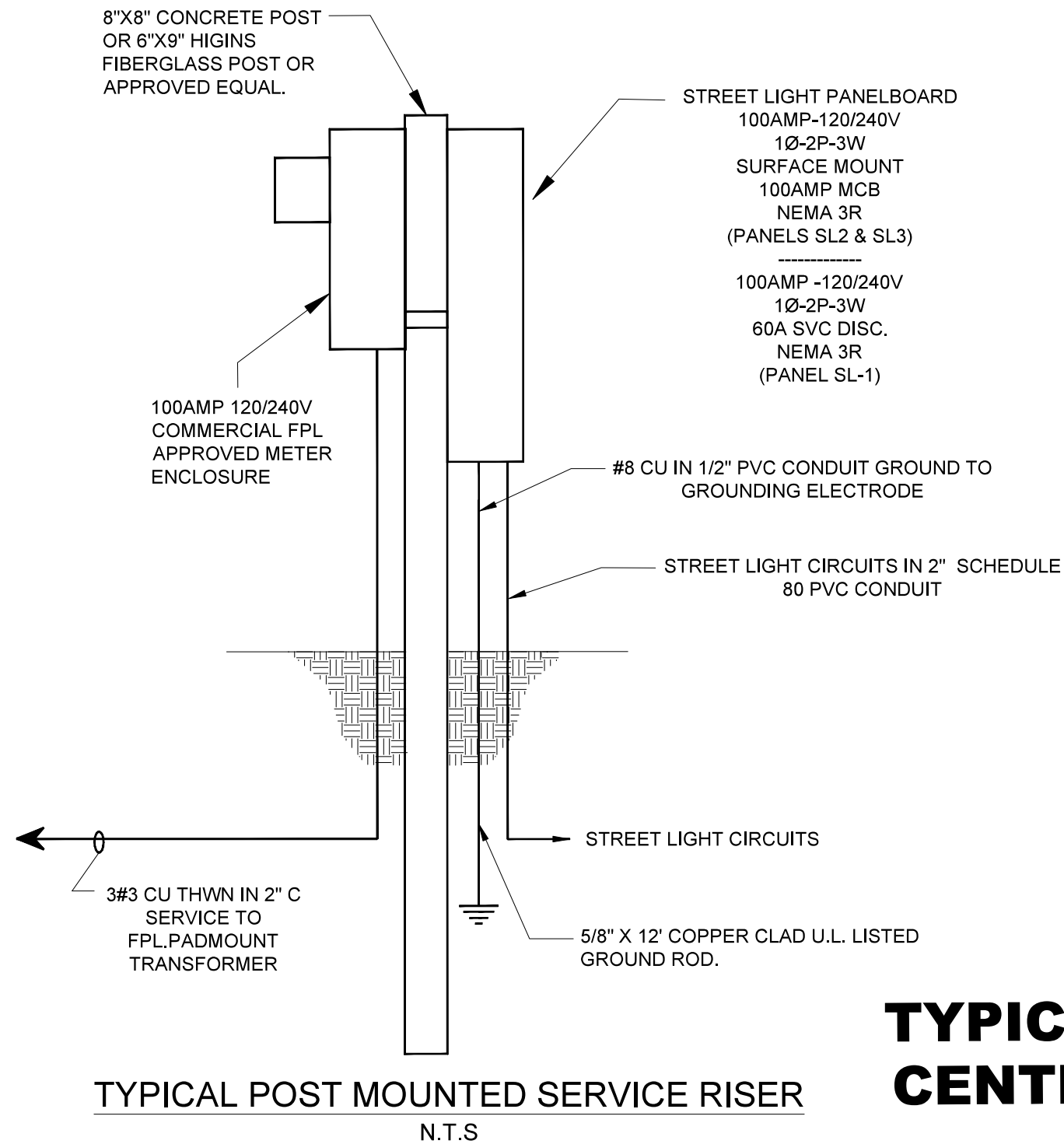
DATE 11/16/2020

Town of Longboat Key

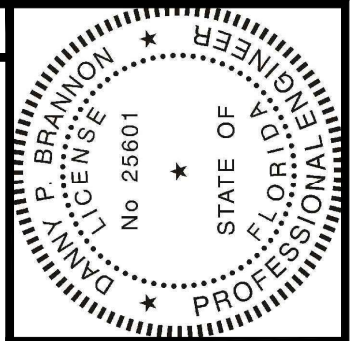
DRAWINGS FOR:
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LONGBOAT KEY, FLORIDA

Brammon & Gillespie, LLC
Consulting Engineers
631 US Highway 1, Suite 301
North Palm Beach, Florida 33408
(561) 847-4435 CA# 6784

Date:	10/22/2020
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Job #	2014-LBK
Sheet	



TYPICAL POWER CENTER DETAIL

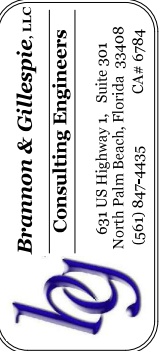


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Town of Longboat Key

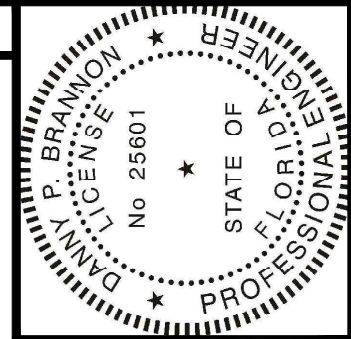
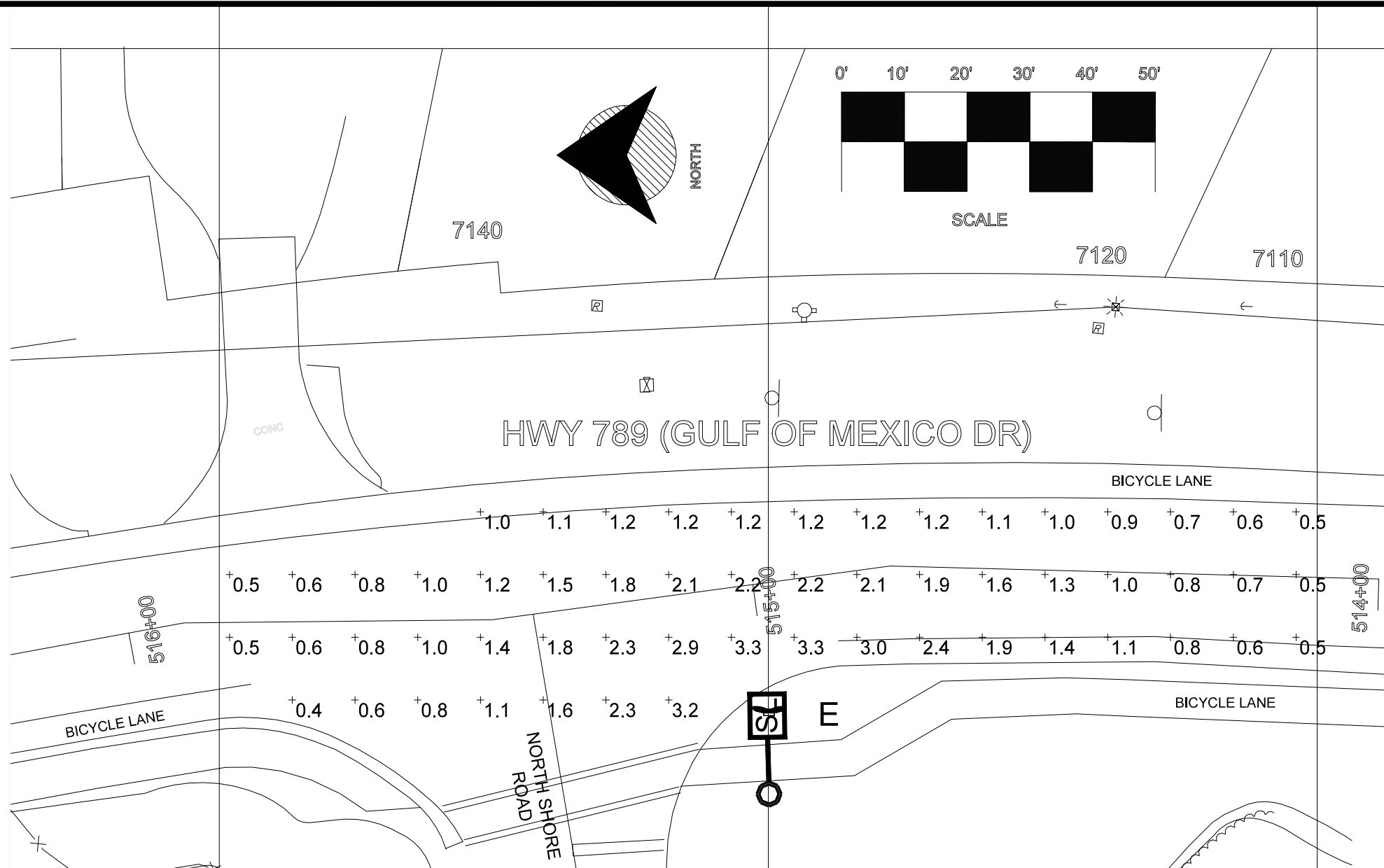


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Date:	10/22/2020
Scale:	AS NOTED
Drawn:	DPB
Checked:	DPB
Job #	2014-LBK
Sheet	

D3 OF 3

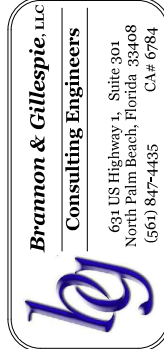


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Town of Longboat Key



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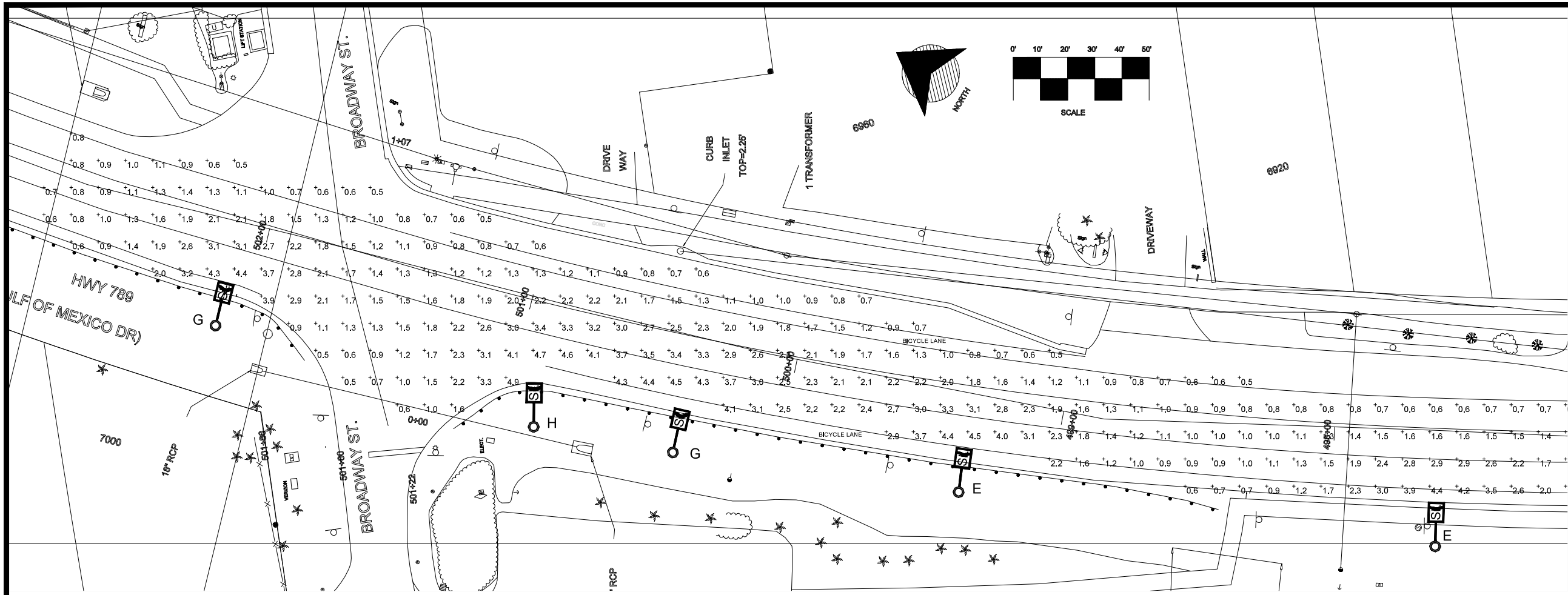
Sheet
P1 OF 5

AREA: HWY 789 & NORTH SHORE ROAD

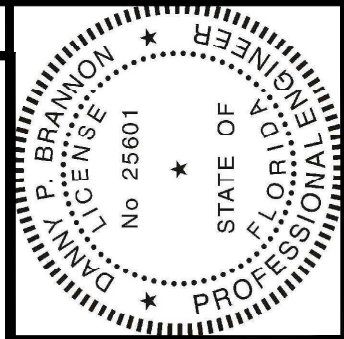
Schedule											
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	E	1	Lumec by Signify	RFM-160W48LED3-K-G2-R2M-HS	RoadFocus LED Cobra Head - Medium (RFM), 48 LED's, 3000K CCT, TYPE R2M-HS OPTIC, WITH HOUSE-SIDE SHIELD	(3) LEDgine ARRAY(S) DRIVEN AT 1050mA	1	rfm-160w48led3k-g2-r2m-hs.ies	15586	0.9	160.74

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	1.4 fc	3.3 fc	0.4 fc	8.3:1	3.5:1

- ### ROADWAY TRAVEL LANE ILLUMINATION
1. ALL LUMINAIRES ARE TO BE MOUNTED AT 32 FEET ABOVE GRADE.
 2. CIRCUIT VOLTAGE DROP DOES NOT EXCEED 5% AT ANY LIGHT LOCATION.
 3. IN ALL FIXTURES, TILT = 0.0 DEGREES.
 4. ALL POLES TO HAVE BREAKAWAY BASES.
 5. MAINTAINED AVERAGE ILLUMINATION MAINTAINED > 1.1FC (LLF =0.90)
 6. ALL AREAS: MAXIMUM TO MINIMUM < 10, AND AVERAGE TO MINIMUM < 4.



CONTINUED ON SHEET P3



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DATE 11/16/2020

Symbol	Label	Quantity	Manufacture	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	E	6	Lumec by Signify	RFM-160W48LED3 K-G2-R2M-HS	RoadFocus LED Cobra Head - Medium (RFM), 48 LED's, 3000K CCT, TYPE R2M-HS OPTIC, WITH HOUSE-SIDE SHIELD	(3) LEDgine ARRAY(S) DRIVEN AT 1050mA	1	rfm-160w48led3k-g2-r2m-hs.ies	15586	0.9	160.74
	G	2	Lumec by Signify	RFM-160W48LED3 K-G2-R3M-HS	RoadFocus LED Cobra Head - Medium (RFM), 48 LED's, 3000K CCT, TYPE R3M-HS OPTIC, WITH HOUSE-SIDE SHIELD	(3) LEDgine ARRAY(S) DRIVEN AT 1050mA	1	rfm-160w48led3k-g2-r3m-hs.ies	14933	0.9	160.74
	H	1	SIGNIFY Lumec	RFM-160W48LED3 K-G2-R3M	RoadFocus LED Cobra Head - Medium (RFM), 48 LED's, 3000K CCT, TYPE R3M OPTIC,	(3) LEDgine ARRAY(S) DRIVEN AT 1050mA	1	rfm-160w48led3k-g2-r3m.ies	18279	0.9	160.74

AREA: WHITNEY BEACH SHOPPING CENTER

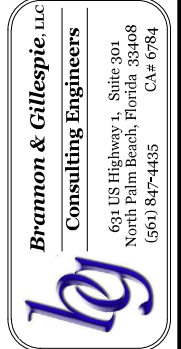
Statistics

Description	Symbol	Max	Min	Max/Min	Avg/Min	Avg
Roadway	+	4.9 fc	0.5 fc	9.8:1	3.2:1	1.6 fc

ROADWAY TRAVEL LANE ILLUMINATION

1. ALL LUMINAIRES ARE TO BE MOUNTED AT 32 FEET ABOVE GRADE.
2. CIRCUIT VOLTAGE DROP DOES NOT EXCEED 5% AT ANY LIGHT LOCATION.
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Town of Longboat Key

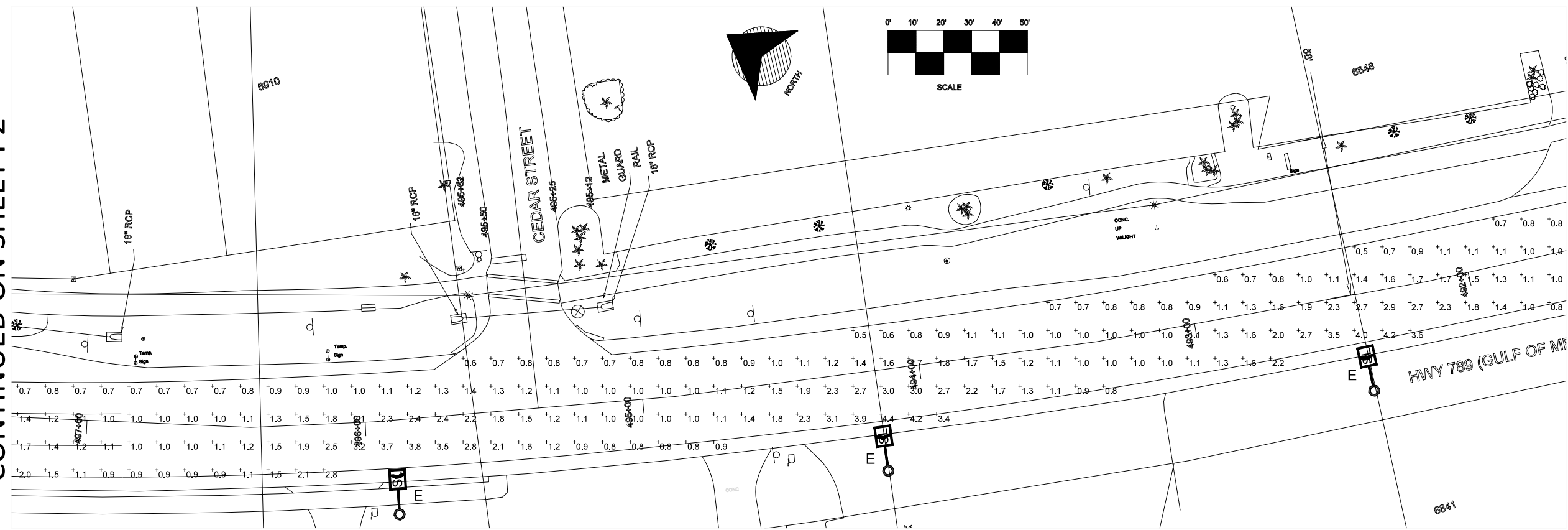


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FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



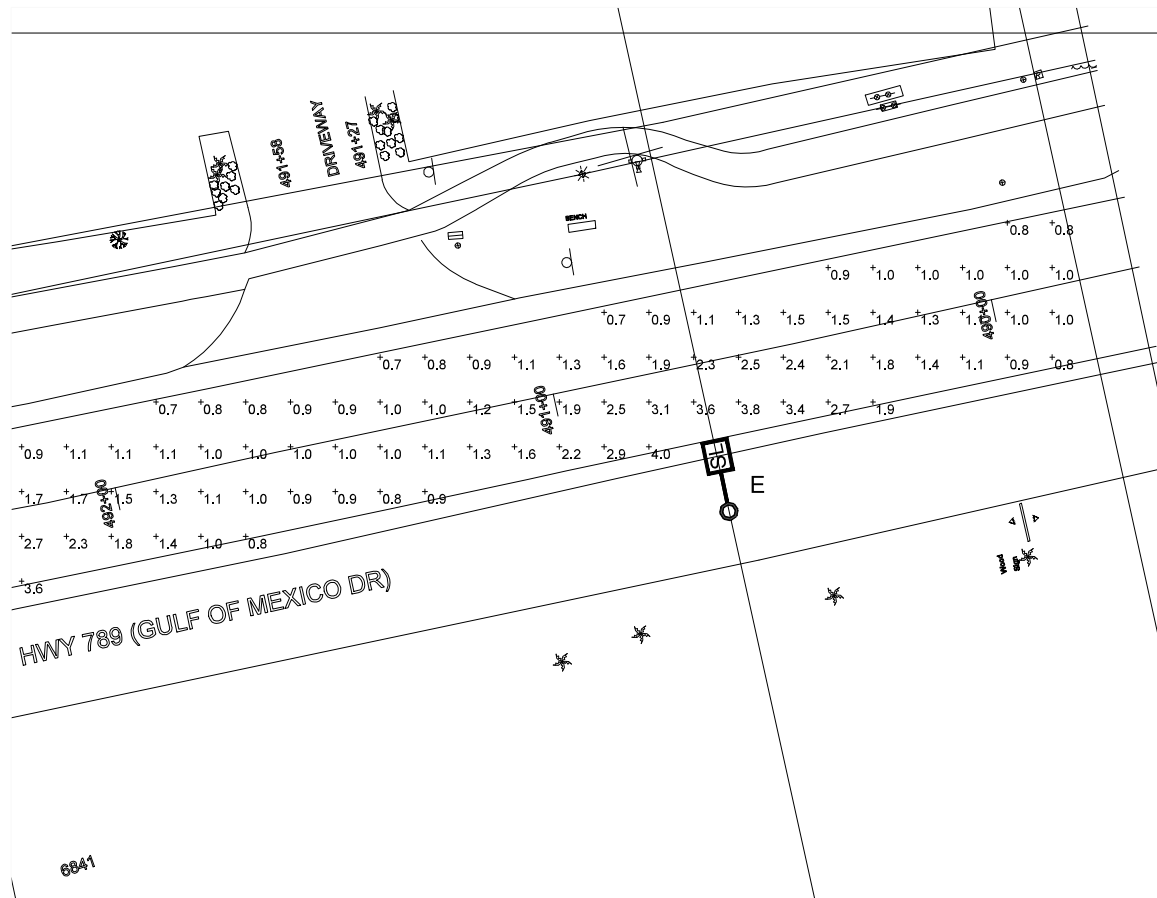
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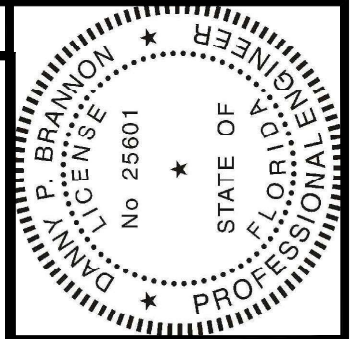


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AREA WHITNEY BEACH SHEET 2 OF 2



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Danny P Brannon
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Danny Brannon

DANNY P. BRANNON, P. E.
FLORIDA P. E. NO. 25601

DATE 11/16/2020

Town of Longboat Key

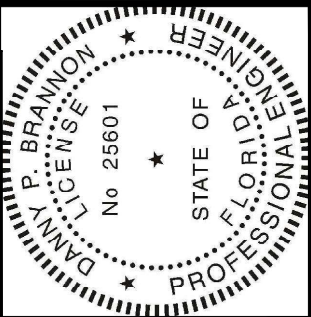
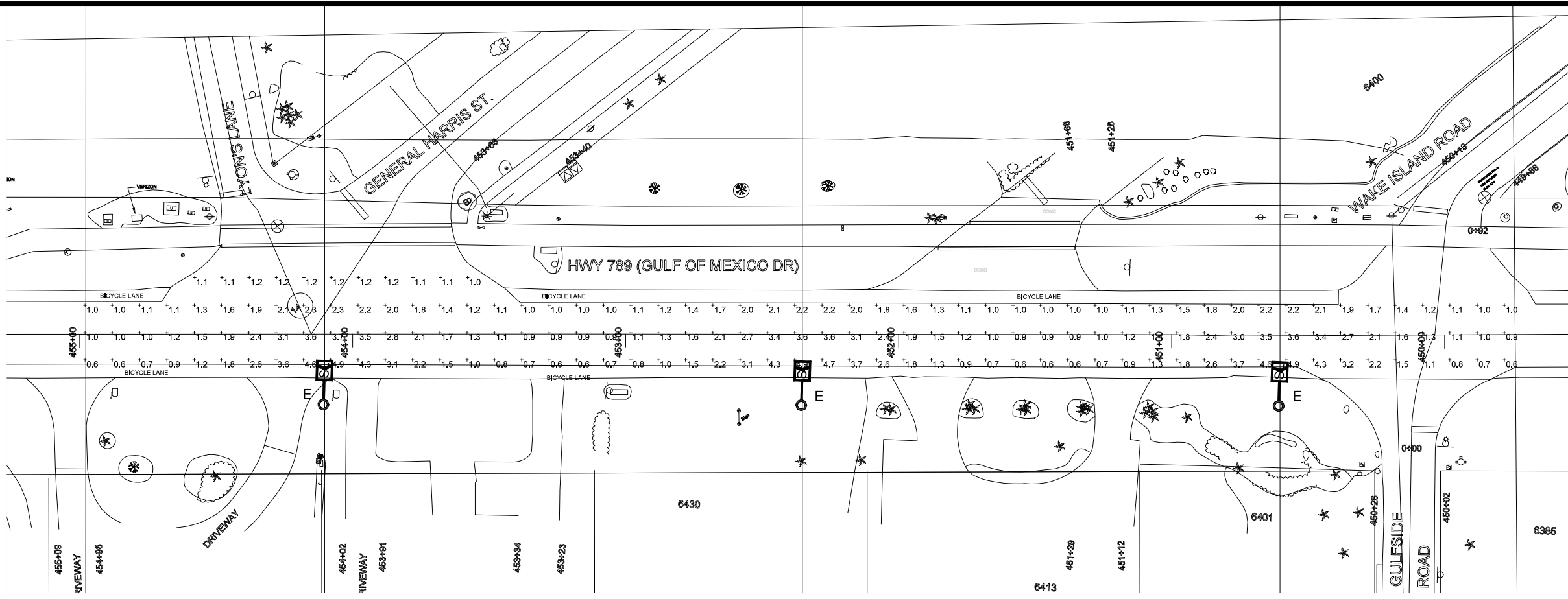
Bramon & Gillespie, LLC
Consulting Engineers
631 US Highway 1, Suite 301
North Palm Beach, Florida 33408
(561) 847-4435 CA# 6784



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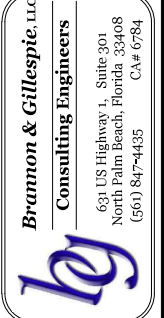
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P4 OF 5

AREA: CHRIST CHURCH

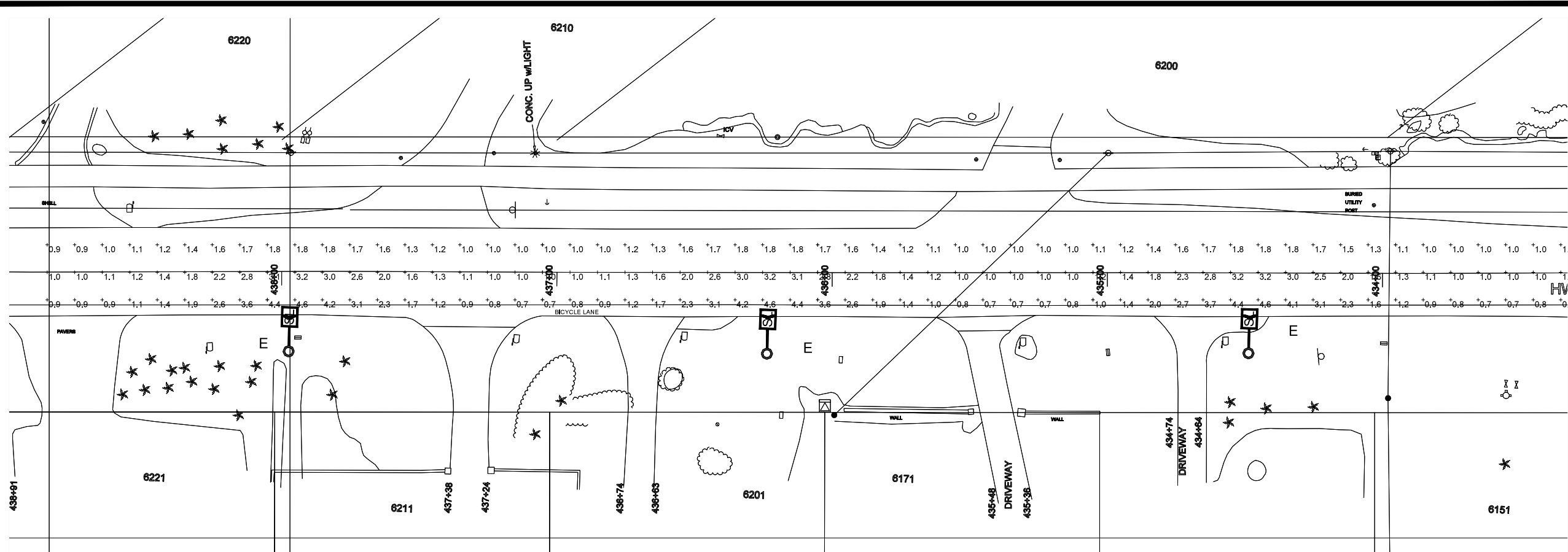
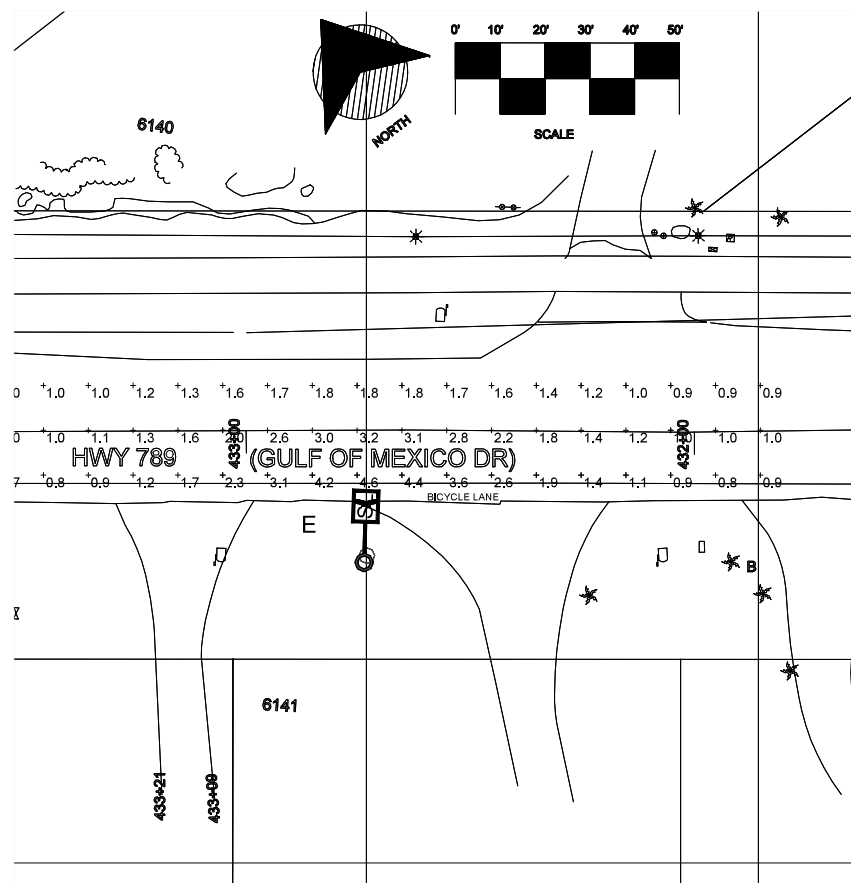
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	E	3	Lumec by Signify	RFM-160W48LED3-K-G2-R2M-HS	RoadFocus LED Cobra Head - Medium (RFM), 48 LED's, 3000K CCT, TYPE R2M-HS OPTIC, WITH HOUSE-SIDE SHIELD	(3) LEDgine ARRAY(S) DRIVEN AT 1050mA	1	rfm-160w48led3k-g2-r2m-hs.ies	15586	0.9	160.74

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Roadway	+	1.8 fc	4.9 fc	0.6 fc	8.2:1	3.0:1

ROADWAY TRAVEL LANE ILLUMINATION

1. ALL LUMINAIRES ARE TO BE MOUNTED AT 32 FEET ABOVE GRADE.
2. CIRCUIT VOLTAGE DROP DOES NOT EXCEED 5% AT ANY LIGHT LOCATION.
3. IN ALL FIXTURES, TILT = 0.0 DEGREES.
4. ALL POLES TO HAVE BREAKAWAY BASES.
5. MAINTAINED AVERAGE ILLUMINATION MAINTAINED > 1.1FC (LLF = 0.90)
6. ALL AREAS: MAXIMUM TO MINIMUM < 10, AND AVERAGE TO MINIMUM < 4.

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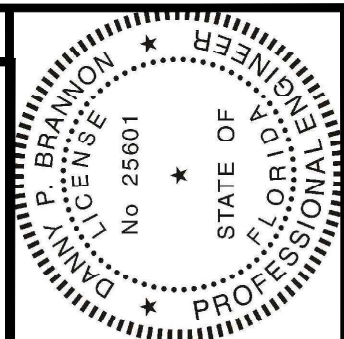
AREA: LONGBOAT ISLAND CHAPEL

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Travel Lane	+	1.7 fc	4.6 fc	0.7 fc	6.6:1	2.4:1

Schedule											
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lamp	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	E	4	Lumec by Signify	RFM-160W48LED 3K-G2-R2M-HS	RoadFocus LED Cobra Head - Medium (RFM), 48 LED's, 3000K CCT, TYPE R2M-HS OPTIC, WITH HOUSE-SIDE SHIELD	1	(3) LEDgine ARRAY(S) DRIVEN AT 1050mA	rfm-160w48led3k-g2-r2m-hs.ies	15586	0.9	160.74

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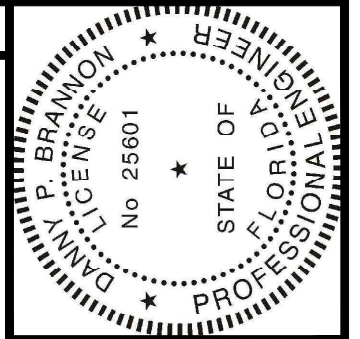
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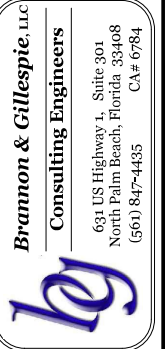
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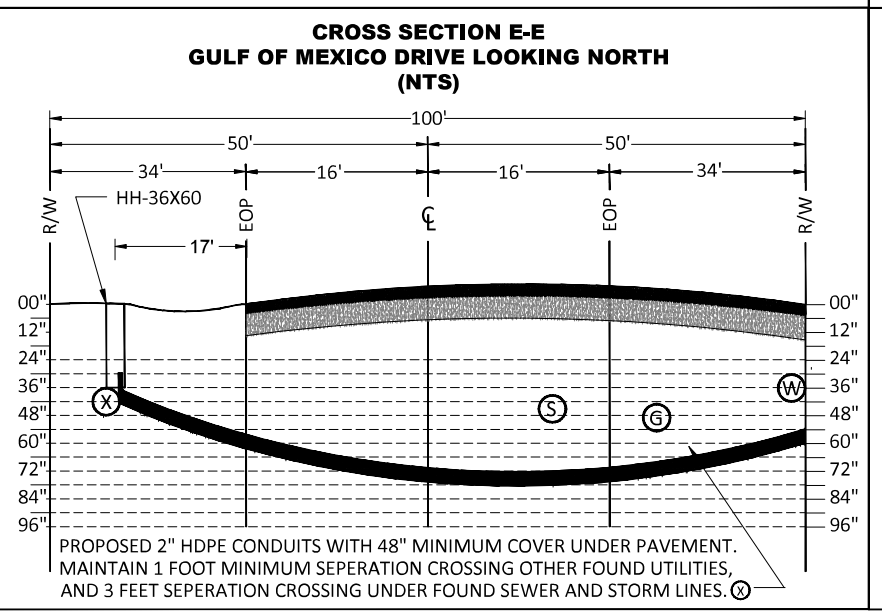
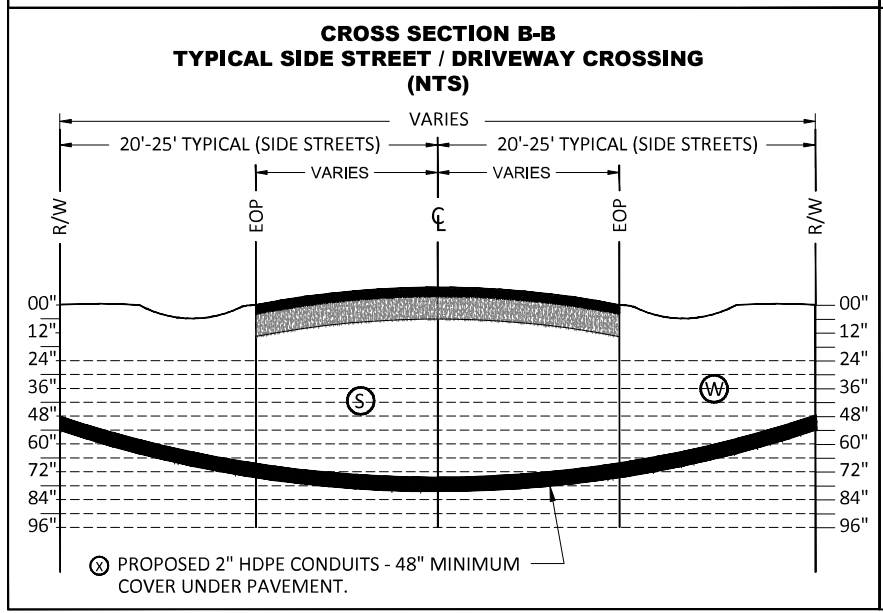
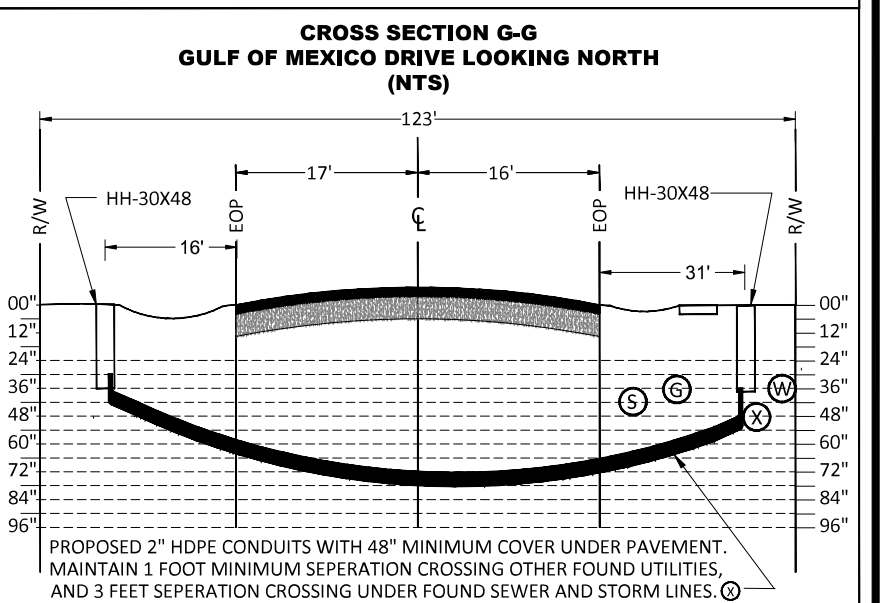
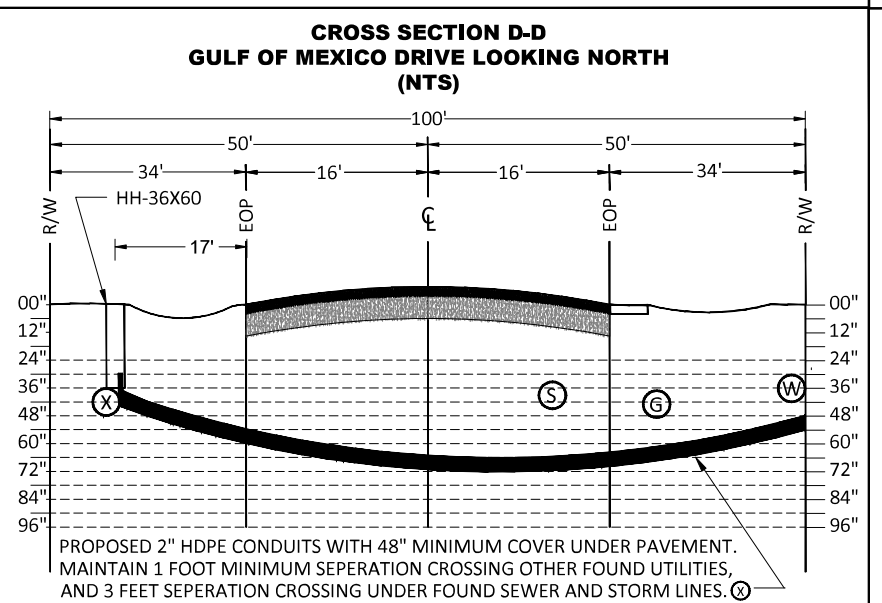
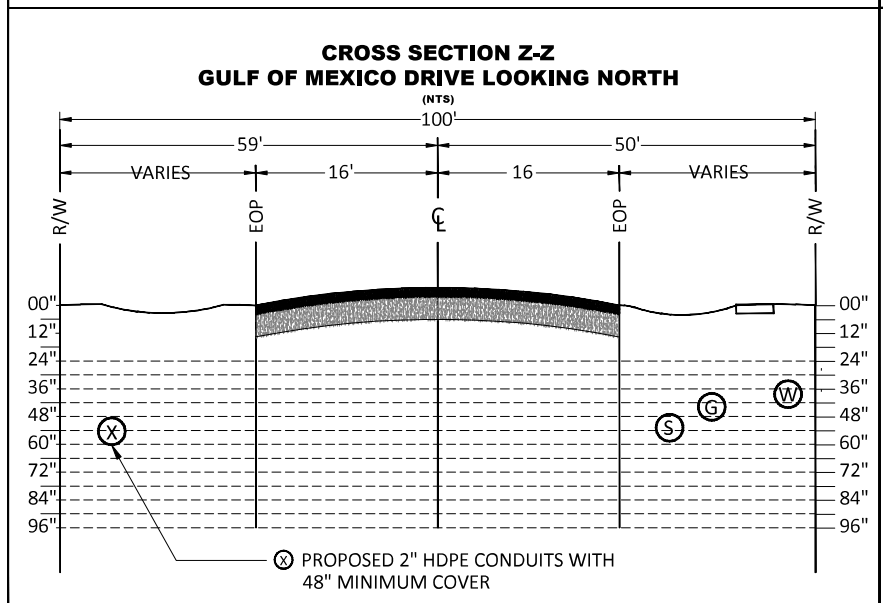
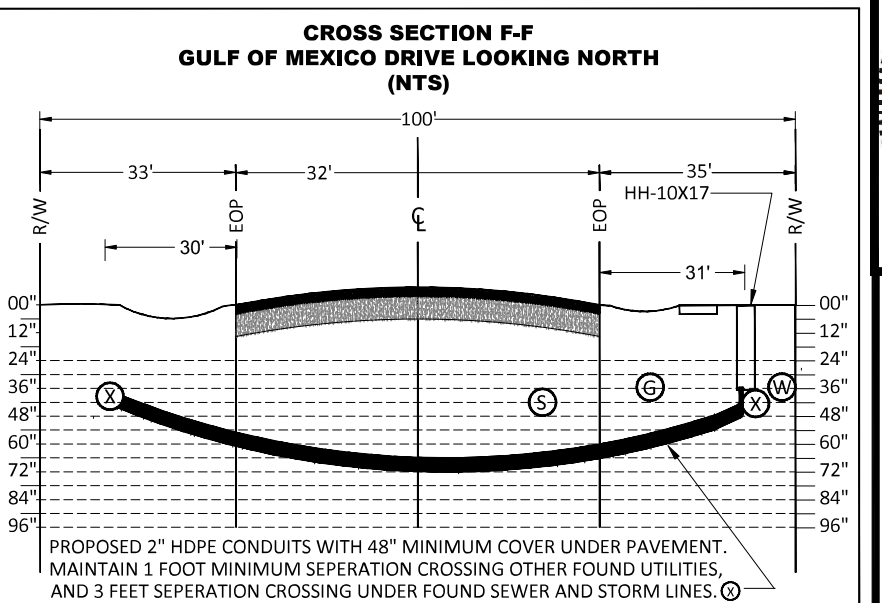
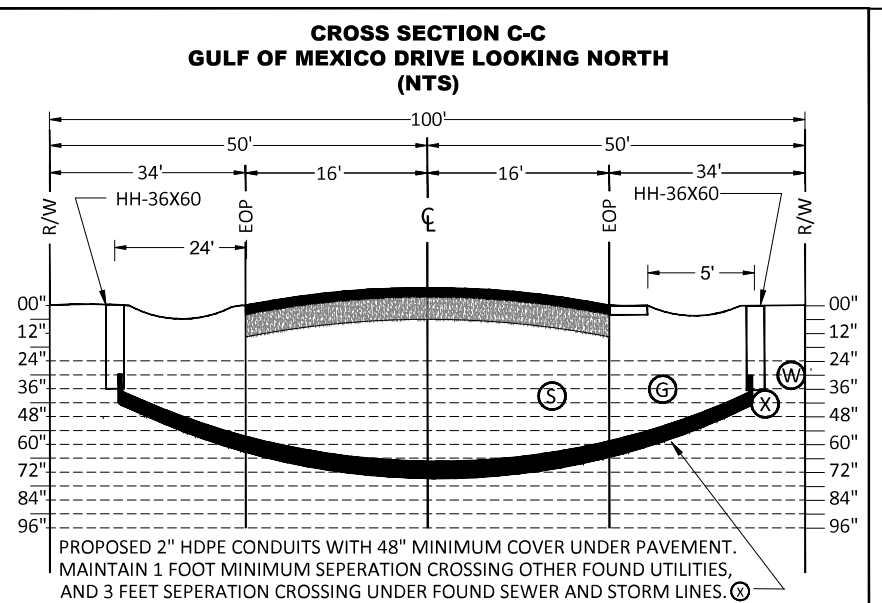
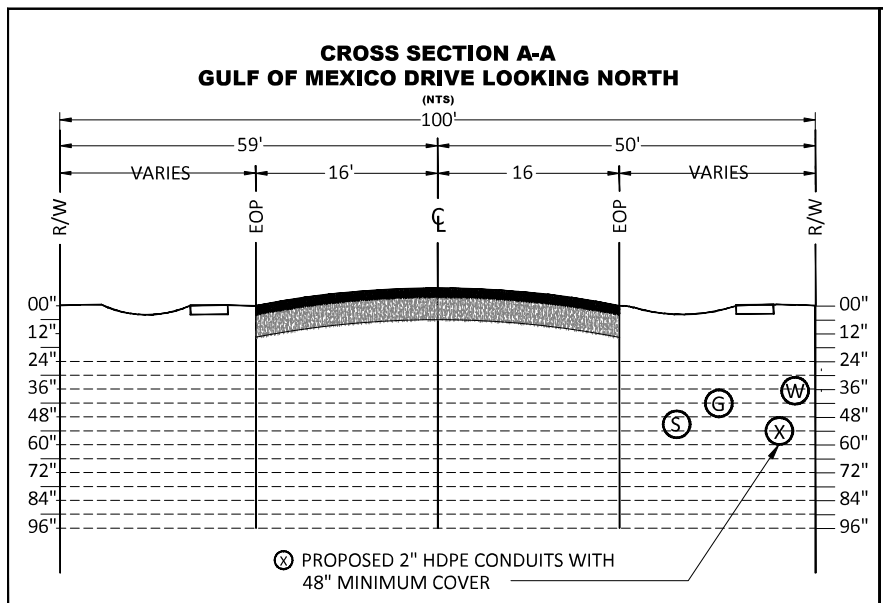
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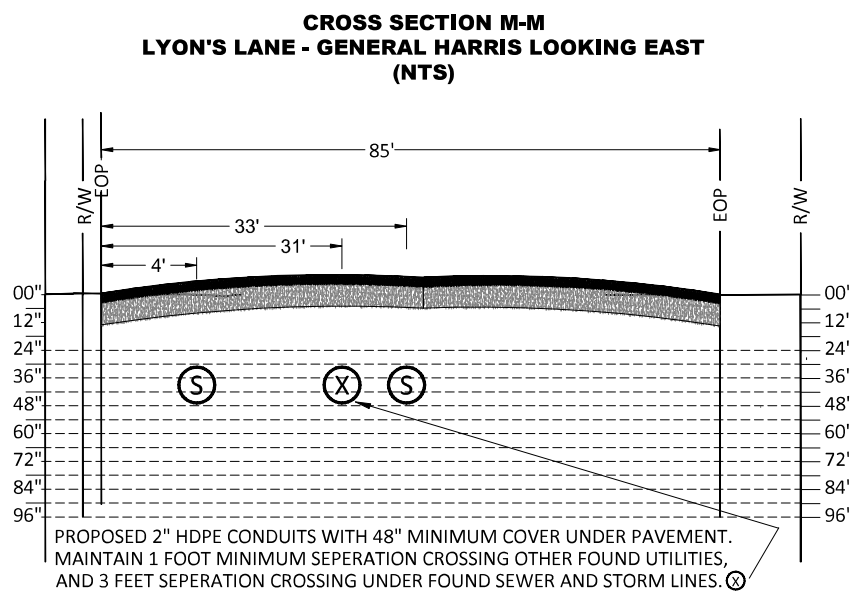
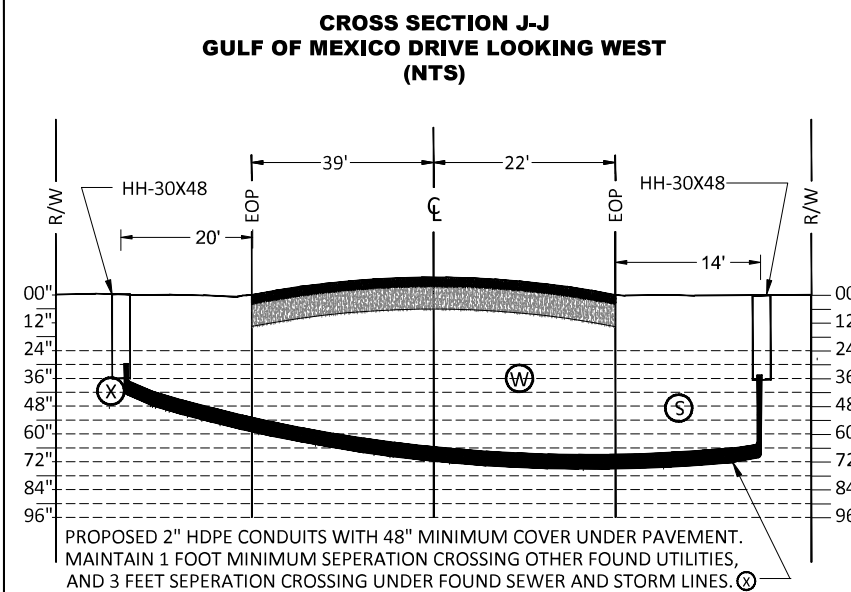
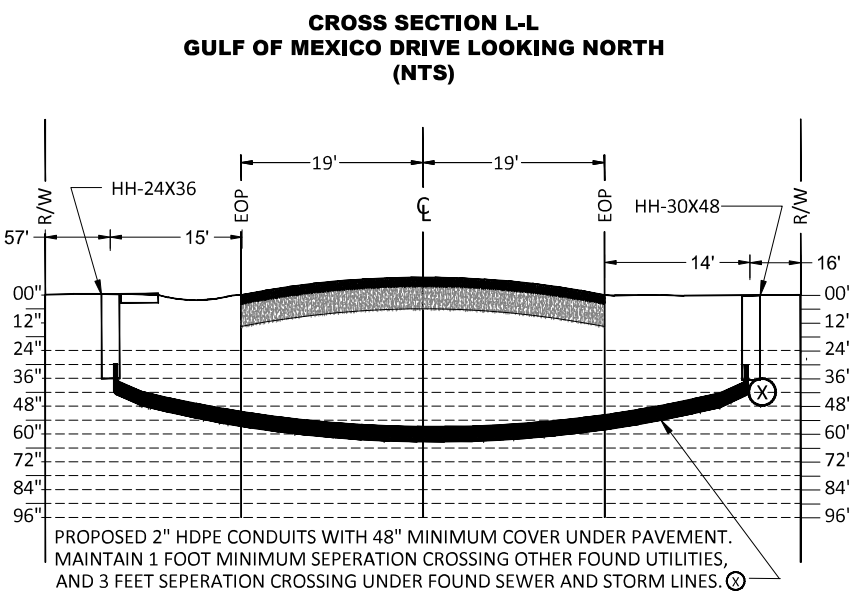
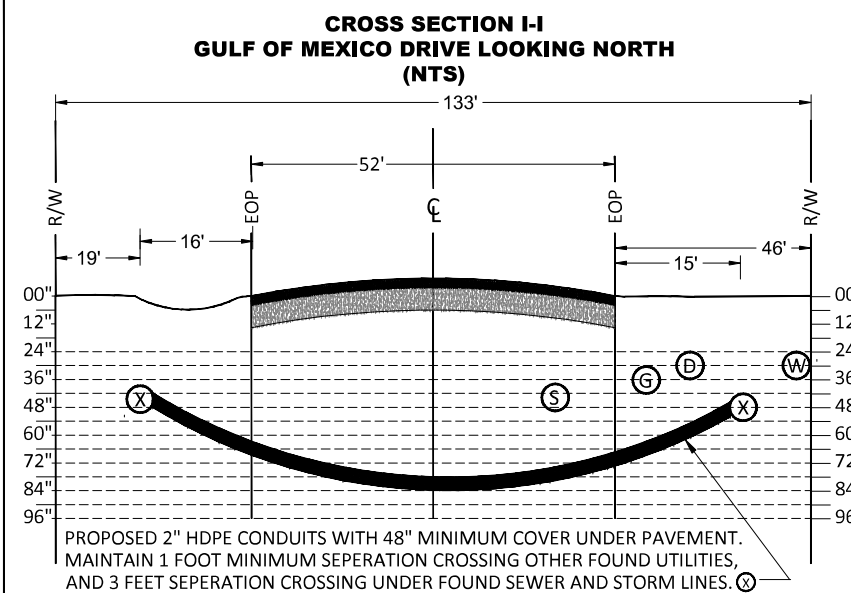
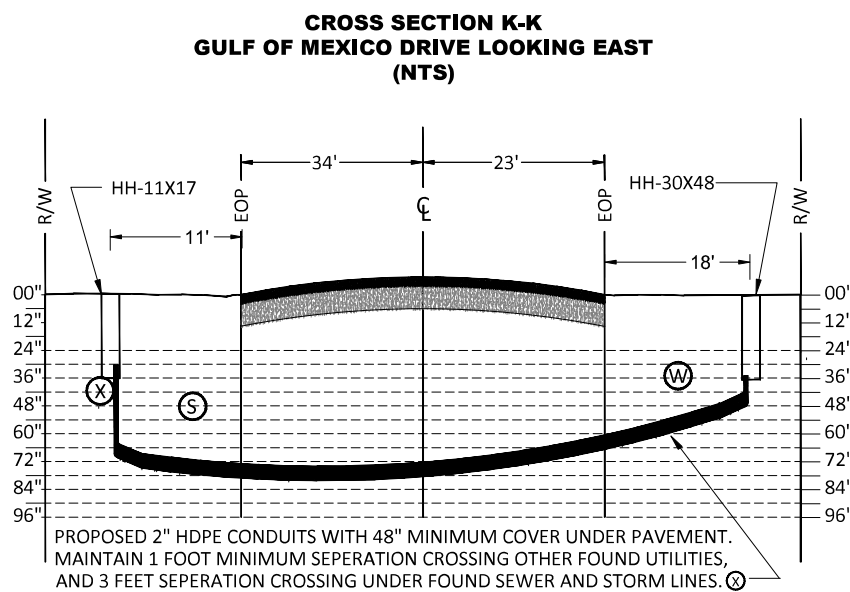
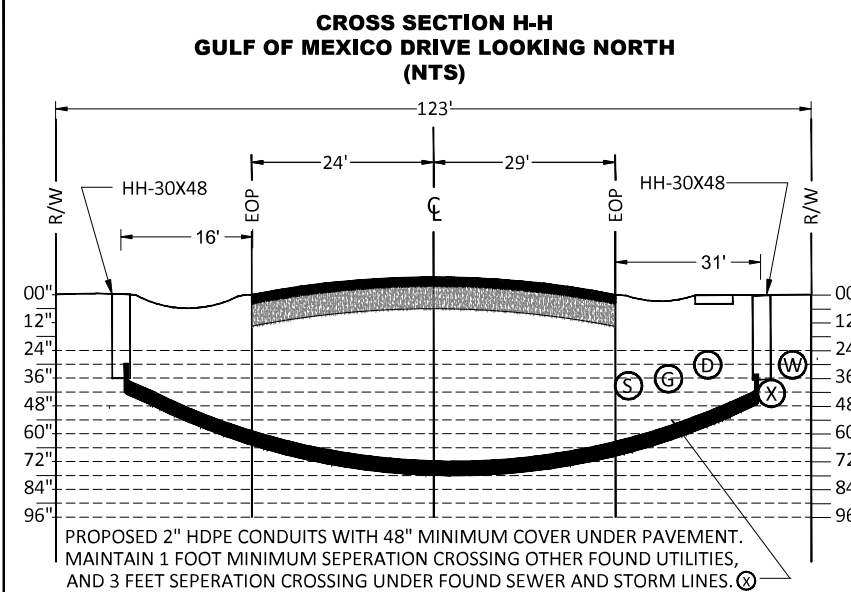
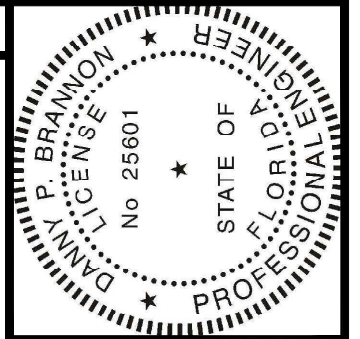


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- #### SYMBOL LEGEND
- | | |
|---|--------------------|
| (T) TELEPHONE/CABLE TV | (D) STORM DRAIN |
| (W) WATER | (E) ELECTRIC POWER |
| (X) PROPOSED TOWN STREET LIGHT & FIBER OPTIC FACILITIES (2" CONDUITS) | (G) GAS |
| | (S) SEWER |

Cross-Sections



- SYMBOL LEGEND**
- (T) TELEPHONE/CABLE TV
 - (W) WATER
 - (X) PROPOSED TOWN STREET LIGHT & FIBER OPTIC FACILITIES (2" CONDUITS)
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 - (E) ELECTRIC POWER
 - (G) GAS
 - (S) SEWER

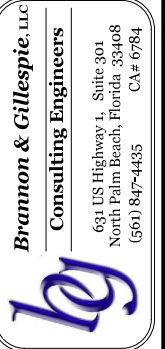
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