ELECTRICAL GENERAL NOTES

1. THE SCOPE OF WORK SHALL CONSIST PRIMARILY OF BUT NOT LIMITED TO THE FOLLOWING:

   A. PROVIDE AND INSTALL OWNER PROVIDED LED LIGHTING SYSTEM AND ELECTRICAL POWER AND CONTROL SYSTEM FOR THE POMPANO BEACH GOLF CLUB PARKING LOT FOR A COMPLETE WORKING SYSTEM IN PLACE AS SHOWN ON DRAWINGS.

2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR TO INSTALL THE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. ITEMS NOT SHOWN BUT OBVIOUSLY NECESSARY FOR COMPLETION OF THE WORK SHALL BE INCLUDED.

3. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, LOCAL CODES, FLORIDA BUILDING CODE AND CITY OF POMPANO BEACH CODES.

4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS AND APPROVALS AND TO INCLUDE ALL FEES AS PART OF THEIR BID IF NOT OTHERWISE NOTED.

5. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE ENGINEER AND OWNER.

6. THE CONTRACTOR SHALL, BEFORE SUBMITTING THEIR BID, VISIT THE SITE OF THE PROJECT AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXISTING CONDITIONS OR FAILURE OF THE CONTRACTOR TO OBSERVE THEM.

7. CONTRACTOR SHALL NOTIFY OWNER 48 HOURS IN ADVANCE OF ANY WORK THAT REQUIRES A POWER SHUTDOWN. CONTRACTOR SHALL PROVIDE A WORKING SCHEDULE IN WRITING TO OWNER SHOWING THE PROPOSED SCHEDULE OF WORK WITH THE ANTICIPATED TIME DURATIONS.

8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL LOCAL UTILITIES, INCLUDING THE POWER AND TELEPHONE UTILITIES TO MEET ALL OF THEIR INSTALLATION REQUIREMENTS. ALL FEES, LABOR, EQUIPMENT OR MATERIALS NECESSARY TO MEET THESE REQUIREMENTS IS TO BE INCLUDED IN THE BID. THE CONTRACTOR SHALL OBTAIN, DELIVER AND INSTALL ALL CONDUITS, PULL–BOXES AND EQUIPMENT AS REQUIRED BY THE UTILITIES TO MEET THEIR SPECIFICATIONS.
   POMPANO MAINTENANCE: JOE CERRITO – 954–650–1577

9. ALL EQUIPMENT AND MATERIAL SHALL BE UNUSED AND U.L. LISTED. ALL REFERENCES TO A PARTICULAR MANUFACTURER ARE GIVEN ON AN "APPROVED ALTERNATE" BASIS.

10. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL SYSTEMS INSTALLED OR MODIFIED UNDER THIS PROJECT AND REPAIR OR REPLACE ALL DEFECTIVE WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER.

11. ALL EQUIPMENT FURNISHED AND INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF OWNER ACCEPTANCE.

12. ALL CONDUCTORS SHALL BE COPPER WITH XHHW INSULATION. NO ALUMINUM ALLOWED UNLESS SPECIFICALLY INDICATED ON DRAWINGS.

13. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL ELECTRICAL SPECIAL SYSTEMS EQUIPMENT AND MATERIAL AND SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING CIRCUIT BREAKERS, CONDUIT, CONDUCTORS, LIGHTING ASSEMBLIES, GROUND ROD, GROUNDING, JUNCTION BOX, CHANNEL AND ETC..

14. ALL CONTROL PANELS SHALL BE CONSTRUCTED BY A UL 508A APPROVED PANEL VENDOR AND SHALL BARE A UL 508A LABEL ON THE PANEL.

15. THE DRAWINGS ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT RUNS. THESE ARE TO BE COORDINATED WITH THE OTHER TRADES SO THAT CONFLICTS ARE AVOIDED PRIOR TO INSTALLATIONS.

16. ALL LOCATIONS OF EQUIPMENT, PANELS ETC. ARE SHOWN FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY AND COORDINATE EXACT LOCATION AND SIZE WITH ALL SUBCONTRACTORS AND EQUIPMENT SUPPLIERS PRIOR TO ANY INSTALLATION AND THEN INSTALL AS SUCH WITH CORRESPONDING CONDUIT STUB–UPS.

17. SEE OTHER DISCIPLINE DRAWINGS FOR COORDINATION OF ALL DRAWINGS. ANY CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S/OWNER'S ATTENTION AND MOVEMENT OF CONDUITS OR OTHER ELECTRICAL EQUIPMENT SHALL BE ACCOMPLISHED WITHOUT ANY ADDITIONAL COST FOR THE OWNER.

18. LOCATIONS OF MANHOLES, HANDHOLES AND PULL BOXES ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH EXISTING AND NEW PIPING OR CONDUIT AND ADJUST ACCORDINGLY.

19. NOT ALL CONDUITS SHOWN ON RISER AND ONE–LINE DIAGRAMS ARE SHOWN ON BUILDING LAYOUTS. CONTRACTOR SHALL SUPPLY ALL CONDUITS AND CABLES AS SHOWN ON RISER AND ONE–LINE DIAGRAMS.

20. ALL CIRCUITS SHALL BE IDENTIFIED IN JUNCTION BOXES, PULL BOXES, CONTROL PANELS, MINI–POWER ZONES, SWITCHBOARDS, PANELBOARDS, LIGHTING POLES, CONTROLLERS AND SERVICE POINTS. IDENTIFICATION SHALL MATCH PANELBOARD SCHEDULES.

21. EXPOSED RUNS OF CONDUITS SHALL BE INSTALLED WITH RUNS PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS OR INTERSECTIONS OF VERTICAL PLANES AND CEILINGS, WITH RIGHT ANGLE TURNS CONSISTING OF SYMMETRICAL BENDS OR PULL BOXES AS INDICATED ON THE DRAWINGS. BENDS AND OFFSETS SHALL BE AVOIDED WHERE POSSIBLE.

22. CONDUCTOR PULLING TENSIONS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATION. CONTRACTOR SHALL INSTALL PULL BOXES TO MEET MANUFACTURER'S REQUIREMENTS.

23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT AND WIRING INSTALLATION FOR ALL VENDOR PROVIDED EQUIPMENT (PACKAGE SYSTEMS). IF THE SHOP DRAWINGS DIFFER FROM THE DESIGNED FACILITIES, THE CONTRACTOR SHALL REDESIGN THE FACILITIES AND SUBMIT THE REVISED DESIGN FOR THE ENGINEER'S/OWNER'S APPROVAL ALONG WITH THE SHOP DRAWINGS. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER FOR THE REDESIGN NOR FOR ANY ADDITIONAL CONDUITS AND WIRING. DURING SUBMITTAL THE CONTRACTOR SHALL VERIFY ALL SUPPLIED BREAKER SIZES FOR ALL PACKAGED SYSTEMS AND MODIFY ALL BREAKERS IN PANELBOARDS ACCORDINGLY WITHOUT ANY ADDITIONAL COST TO THE OWNER.

24. ALL EXCAVATIONS FOR CONDUITS, HANDHOLES, MANHOLES AND PULLBOXES NEAR EXISTING PIPING, CONDUIT AND EQUIPMENT SHALL BE HAND EXCAVATED AND COORDINATED WITH ENGINEER AND OWNER.

25. MINIMUM DEPTH FROM TOP OF DUCTBANKS OR CONDUITS TO FINISHED GRADE SHALL BE 24" UNLESS OTHERWISE NOTED.

26. COLORED WARNING TAPE 6" WIDE SHALL BE INSTALLED 12" BELOW FINISHED GRADE DIRECTLY ABOVE ALL UNDERGROUND YARD CONDUITS ACCORDING TO THE FOLLOWING SCHEDULE:
   POWER: RED
   ALL OTHER CONDUITS: GREEN

27. CONTRACTOR SHALL RESTORE SIDEWALKS, PARKING LOTS, ROADWAYS, SOD AND SPRINKLER SYSTEM TO MATCH EXISTING, AFTER THE COMPLETION OF THE CONDUIT AND PULLBOX INSTALLATION.

28. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH NEC, ARTICLE 250. THE GROUNDING SYSTEM TEST SHALL NOT EXCEED A 48 HOUR SPAN DRY RESISTANCE OF 25 OHMS. ADDITIONAL GROUNDING TO MEET THIS REQUIREMENT SHALL BE INSTALLED AT NO EXTRA COST. GROUNDING AND BONDING CONNECTIONS SHALL NOT BE PAINTED. ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMIC UNLESS SPECIFICALLY INDICATED OTHERWISE.

29. AN EQUIPMENT GROUND WIRE SIZED PER NEC SHALL BE PULLED IN ALL ELECTRICAL CONDUITS, POWER AND CONTROL, WHETHER OR NOT INDICATED ON THE PLANS.

30. ALL ENCLOSURES, TJB, WIREWAY, PULL BOXES ETC. SHALL CONTAIN A GROUNDING BUS. CONNECT ALL RACEWAY BONDS TO THIS BUS VIA GROUNDING BUSHING AND EXTEND BONDING JUMPER FROM THIS BUS TO THE ENCLOSURE.

31. ALL CONDUITS PENETRATING RATED FIRE WALLS OR RATED FIRE FLOORS SHALL BE INSTALLED WITH U.L. APPROVED DEVICES TO MAINTAIN THE FIRE RATING OF THE WALL OR FLOOR PENETRATED.

32. PROVIDE CONDUIT DUCT SEAL AT ALL CONDUIT ENDS.

33. ALL SPARE CONDUITS SHALL BE SEALED WITH A CAP AT BOTH ENDS AND A PULL STRING INSTALLED WITH IDENTIFICATION ON BOTH ENDS.

34. TYPEWRITTEN PANEL SCHEDULES SHALL BE INSTALLED IN EACH PANELBOARD, AND TYPEWRITTEN TERMINAL BLOCK SCHEDULES IN EACH CONTROL CABINET.

35. AS PART OF THE ELECTRICAL SUBMITTAL, CONTRACTOR SHALL PROVIDE A LAYOUT OF THE ELECTRICAL ROOM SHOWING SIZES OF ALL EQUIPMENT AND THIER SPATIAL RELATIONSHIPS.

36. CONTRACTOR SHALL BALANCE PANELBOARD LOADS AT THE END OF THE PROJECT.

37. SCHEDULE 40 PVC SHALL BE USED UNDERGROUND. ALL ABOVE GROUND CONDUITS SHALL BE SCHEDULE 80 PVC IN NON AIR CONDITIONED AREAS AND ALL ABOVE GROUND CONDUITS SHALL BE EMT IN AIR CONDITIONED AREAS. MINIMUM CONDUIT SIZE SHALL BE 3/4".

38. COMBINING OF NEUTRAL CONDUCTORS SHALL NOT BE ALLOWED.

39. THE CONTRACTOR MAY COMBINE CONDUCTORS TO LIMIT THE NUMBER OF CONDUITS LEAVING THE PANELBOARD. CONTRACTOR SHALL DERATE THE WIRES AS PER NEC AND INCREASE THE SIZE OF THE WIRES ACCORDINGLY.

40. FEEDER CONDUCTORS ARE SIZED FOR MAXIMUM VOLTAGE DROP OF 2 PERCENT AT DESIGN LOAD PER THE FLORIDA BUILDING CODE, DIVISION 13–413.1.ABC.1.1

41. BRANCH CIRCUIT CONDUCTORS ARE SIZED FOR MAXIMUM VOLTAGE DROP OF 3 PERCENT AT DESIGN LOAD PER THE FLORIDA BUILDING CODE, DIVISION 13–413.1.ABC.1.2

CONDUIT SHALL BE RUN TO MINIMIZE IMPACTS TO EXISTING LANDSCAPING SUBJECT TO THE APPROVAL OF THE CITY OF POMPANO URBAN FORESTER

NO.	DATE	BY	REVISION

HILLERS ELECTRICAL ENGINEERING, INC.
23257 STATE ROAD 7, SUITE 100
BOCA RATON, FL 33428
(561) 451–9165
(561) 451–4886 FAX
LICENSE NO: EB 0006877

JAMES W. KAPPES
FL. PE. No. 71499

CITY OF POMPANO BEACH
BROWARD COUNTY, FLORIDA

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

FIELD: –
DRAWN: D.E.U
DESIGNED: J.W.K.
APPROVED: A.L.C
SCALE: NONE

POMPANO BEACH MUNICIPAL GOLF COURSE
PARKING LOT LIGHTING

ELECTRICAL GENERAL NOTES

DATE: 12/05/2014
P.A. NO.
DWG. NO. E–1
SHEET 1 OF 14

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
—•—	HAND EXCAVATE AND PROVIDE AND INSTALL SCHEDULE 40 P.V.C. CONDUIT INSTALLED IN EARTH. OR PAVEMENT SEE SITE PLAN AND RISERS FOR SIZE AND QUANTITY OF CONDUIT AND CONDUCTORS. Avoid Existing Trees
—••—	DIRECTIONAL BORED HDPE SCHEDULE 40 PVC. CONDUIT UNDER EXISTING ROADWAY AND SIDEWALKS. SEE SITE PLAN AND RISERS FOR SIZE AND QUANTITY OF CONDUIT AND CONDUCTORS.
X Y–Z	OWNER PROVIDED SINGLE LUMINAIRE INSTALLED BY THE CONTRACTOR ON EXISTING 6"x6"x25' ALUMINUM POLE, LED 290W FIXTURE, HOLOPHANE MONGOOSE LED AREA FIXTURE, MODEL NO. MGLED–7–5K–AH–W–L–A–W(TYPE III) OR MGLED–7–5K–AH–W–L–A–W(TYPE IV), CUTOFF. SEE DETAILS FOR ADDITIONAL INFORMATION. X = LUMINAIRE DISTRIBUTION (3 = TYPE III DISTRIBUTION, 4 = TYPE IV DISTRIBUTION) Y = PANEL BOARD Z = CIRCUIT NO.
X X Y–Z	OWNER PROVIDED DOUBLE LUMINAIRE INSTALLED BY THE CONTRACTOR ON EXISTING 6"x6"x25' ALUMINUM POLE, LED 290W FIXTURE, HOLOPHANE MONGOOSE LED AREA FIXTURE, MODEL NO. MGLED–7–5K–AH–W–L–A–W(TYPE III) OR MGLED–7–5K–AH–W–L–A–W(TYPE IV), CUTOFF. SEE DETAILS FOR ADDITIONAL INFORMATION. X = LUMINAIRE DISTRIBUTION (3 = TYPE III DISTRIBUTION, 4 = TYPE IV DISTRIBUTION) Y = PANEL BOARD Z = CIRCUIT NO.
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X X Y–Z	OWNER PROVIDED DOUBLE LUMINAIRE INSTALLED BY THE CONTRACTOR ON EXISTING 6"x6"x25' ALUMINUM POLE, LED 245W FIXTURE, HOLOPHANE MONGOOSE LED AREA FIXTURE, MGLED–6–5K–AH–W–L–A–W(TYPE IV), CUTOFF. SEE DETAILS FOR ADDITIONAL INFORMATION. X = LUMINAIRE DISTRIBUTION (4 = TYPE IV DISTRIBUTION) Y = PANEL BOARD Z = CIRCUIT NO.
X Y–Z	OWNER PROVIDED SINGLE LUMINAIRE AND ALUMINUM POLE INSTALLED BY THE CONTRACTOR IN EARTH, LED 290W FIXTURE, HOLOPHANE MONGOOSE LED AREA FIXTURE, MODEL NO. MGLED–7–5K–AH–W–L–A–W(TYPE III) OR MGLED–7–5K–AH–W–L–A–W(TYPE IV), CUTOFF, MOUNTING HEIGHT OF 25'. SEE DETAILS FOR ADDITIONAL INFORMATION. X = LUMINAIRE DISTRIBUTION (3 = TYPE III DISTRIBUTION, 4 = TYPE IV DISTRIBUTION) Y = PANEL BOARD Z = CIRCUIT NO.
X X Y–Z	OWNER PROVIDED DOUBLE LUMINAIRE AND ALUMINUM POLE INSTALLED BY THE CONTRACTOR IN EARTH, LED 290W FIXTURE, HOLOPHANE MONGOOSE LED AREA FIXTURE, MODEL NO. MGLED–7–5K–AH–W–L–A–W(TYPE III) OR MGLED–7–5K–AH–W–L–A–W(TYPE IV), CUTOFF, MOUNTING HEIGHT OF 25'. SEE DETAILS FOR ADDITIONAL INFORMATION. X = LUMINAIRE DISTRIBUTION (3 = TYPE III DISTRIBUTION, 4 = TYPE IV DISTRIBUTION) Y = PANEL BOARD Z = CIRCUIT NO.
X X Y–Z	OWNER PROVIDED DOUBLE LUMINAIRE AND ALUMINUM POLE INSTALLED BY THE CONTRACTOR IN EARTH, LED 245W FIXTURE, HOLOPHANE MONGOOSE LED AREA FIXTURE, MODEL NO. MGLED–6–5K–AH–W–L–A–W(TYPE IV), CUTOFF, MOUNTING HEIGHT OF 25'. SEE DETAILS FOR ADDITIONAL INFORMATION. X = LUMINAIRE DISTRIBUTION (4 = TYPE IV DISTRIBUTION) Y = PANEL BOARD Z = CIRCUIT NO.
E	OWNER PROVIDE COMPOSITE PULLBOX INSTALLED BY THE CONTRACTOR IN EARTH. SEE DETAIL FOR ADDITIONAL INFORMATION.
	PROPOSED SECURITY POLE
	DEMOLISH OR MODIFY
	EXISTING SINGLE FIXTURE AND POLE WITH CONCRETE BASE
	EXISTING DOUBLE FIXTURE AND POLE WITH CONCRETE BASE
—•—	EXISTING CONDUIT

DEMOLITION NOTES:

1. CONTRACTOR SHALL DISCONNECT AND REMOVE THE EXISTING SINGLE LUMINAIRE FIXTURE FROM THE EXISTING ALUMINUM POLE, REMOVE CONDUCTORS BACK TO THE BASE OF THE POLE, COMPLETE. CONTRACTOR SHALL PROTECT THE EXISTING POLE AND CONDUCTORS DURING CONSTRUCTION, COMPLETE.
2. CONTRACTOR SHALL DISCONNECT AND REMOVE THE EXISTING DOUBLE LUMINAIRE FIXTURE FROM THE EXISTING ALUMINUM POLE, REMOVE CONDUCTORS BACK TO THE BASE OF THE POLE, COMPLETE. CONTRACTOR SHALL PROTECT THE EXISTING POLE AND CONDUCTORS DURING CONSTRUCTION, COMPLETE.
3. CONTRACTOR SHALL DISCONNECT, REMOVE AND DISPOSE OF EXISTING LIGHT POLE, FIXTURES, CONCRETE BASE. AND REMOVE CIRCUIT CONDUCTORS BACK TO THE LAST UNAFFECTED LOCATION.

INSTALLATION NOTES:

1. CONTRACTOR SHALL HAND EXCAVATE AND LOCATE EXISTING CONDUIT SYSTEM, INTERCEPT AND CONNECT TO THE EXISTING CONDUIT SYSTEM AND EXTEND TO NEW PULLBOX. CLEAN OUT AND DEWATER THE EXISTING CONDUIT SYSTEM. CONTRACTOR SHALL INCLUDE THE DEWATERING IN THE LINE ITEM COST FOR THE INTERCEPTION OF THE CONDUIT SYSTEM.

NO.	DATE	BY	REVISION

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23257 STATE ROAD 7, SUITE 100
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(561) 451–9165
(561) 451–4886 FAX
LICENSE NO: EB 0006877

JAMES W. KAPPES
FL. PE. No. 71499

CITY OF POMPANO BEACH
BROWARD COUNTY, FLORIDA

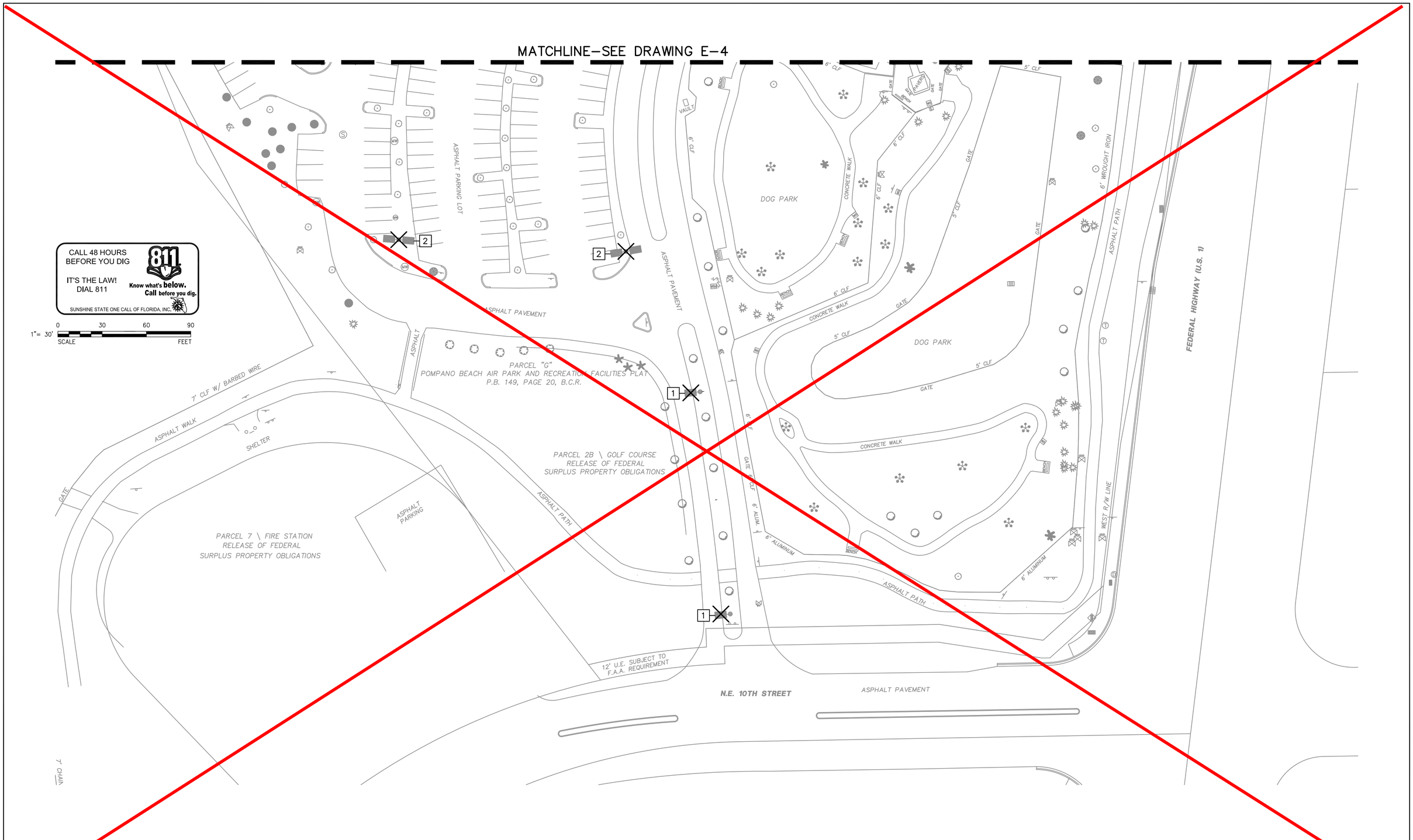
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

FIELD: –
DRAWN: D.E.U
DESIGNED: J.W.K.
APPROVED: A.L.C
SCALE: NONE

POMPANO BEACH MUNICIPAL GOLF COURSE
PARKING LOT LIGHTING

ELECTRICAL LEGEND, DEMOLITION AND INSTALLATION NOTES

DATE: 12/05/2014
P.A. NO.
DWG. NO. E–2
SHEET 2 OF 14



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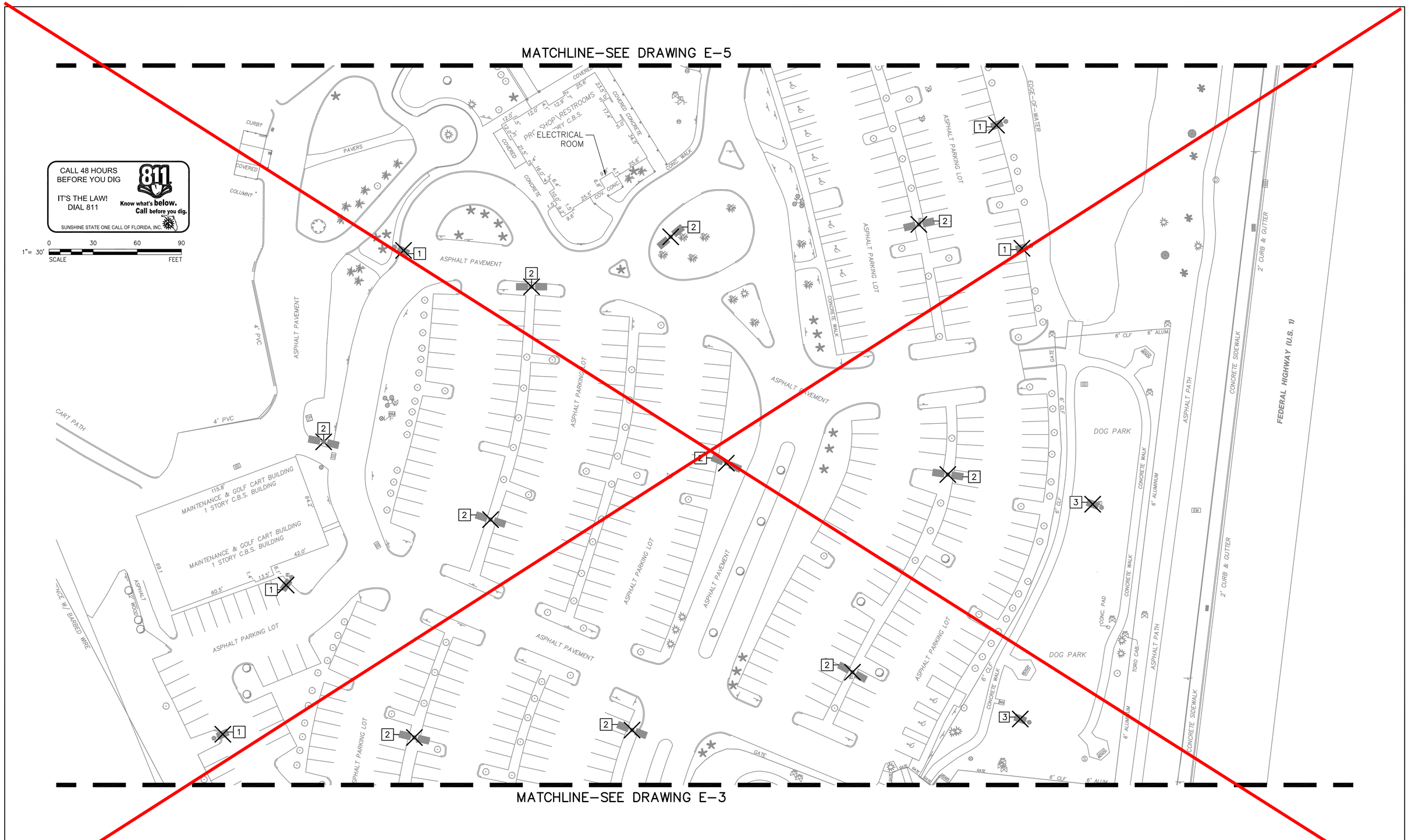
POMPANO BEACH MUNICIPAL
GOLF COURSE
PARKING LOT LIGHTING

ELECTRICAL
DEMOLITION PLAN

DATE: 12/05/2014
P.A. NO.
DWG. NO. E–3
SHEET 3 OF 14



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POMPANO BEACH MUNICIPAL
GOLF COURSE
PARKING LOT LIGHTING

ELECTRICAL
DEMOLITION PLAN

DATE:	12/05/2014
P.A. NO.	
DWG. NO.	E–4
SHEET	4 OF 14

RELEASE OF FEDERAL
PARCEL 2B \ GOLF COURSE

PARCEL "G"
POMPANO BEACH AIR PARK
AND RECREATION FACILITIES PLAT
P.B. 149, PAGE 20, B.C.R.

RESTAURANT
1 STORY C.B.S.

PAVERS

COVERED
PATIO SEATING

CONCRETE

COV. CONC.

PAD

6' IRON

6' PVC GATE

VAULT

ASPHALT PAVEMENT

CONCRETE SIDEWALK

CONCRETE

SIGN

EDGE-OF-WATER

ASPHALT PATH

RETENTION LAKE

MATCHLINE–SEE DRAWING E–4

CALL 48 HOURS
BEFORE YOU DIG

IT'S THE LAW!
DIAL 811

811
Know what's **below.**
Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

1"= 30'

0 30 60 90
SCALE FEET

NO.	DATE	BY	REVISION

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APPROVED:	A.L.C
SCALE:	AS NOTED

POMPANO BEACH MUNICIPAL
GOLF COURSE
PARKING LOT LIGHTING

ELECTRICAL
DEMOLITION PLAN

DATE: 12/05/2014
P.A. NO.
DWG. NO. E–5
SHEET 5 OF 14

MATCHLINE–SEE DRAWING E–7

CIRCUIT ID

[A]= 2#8, 4#6, 1#6G, 2"C
[B]= 2#6, 1#6G, 2"C
[C]= 2#6, 1#6G, EXISTING 1"C
[D]= 2#8, 2#6, 1#6G, 2"C
[E]= 2#8, 1#8G, 2"C
[F]= 2"C SPARE CONDUIT

NIC- NOT IN CONTRACT

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

1"= 30' SCALE 0 30 60 90 FEET

ASPHALT PARKING LOT
ASPHALT PAVEMENT
DOG PARK
CONCRETE WALK
GATE
6' CLF
5' CLF
3' CLF
6' WROUGHT IRON
ASPHALT PATH
FEDERAL HIGHWAY (U.S. 1)
PARCEL "G"
POMPANO BEACH AIR PARK AND RECREATION FACILITIES PLAT
P.B. 149, PAGE 20, B.C.R.
7' CLF W/ BARBED WIRE
ASPHALT WALK
SHELTER
PARCEL 2B \ GOLF COURSE
RELEASE OF FEDERAL
SURPLUS PROPERTY OBLIGATIONS
ASPHALT PARKING
PARCEL 7 \ FIRE STATION
RELEASE OF FEDERAL
SURPLUS PROPERTY OBLIGATIONS
6' ALUMINUM
WEST R/W LINE
12' U.E. SUBJECT TO F.A.A. REQUIREMENT
N.E. 10TH STREET
7' CHAIN

NO.	DATE	BY	REVISION

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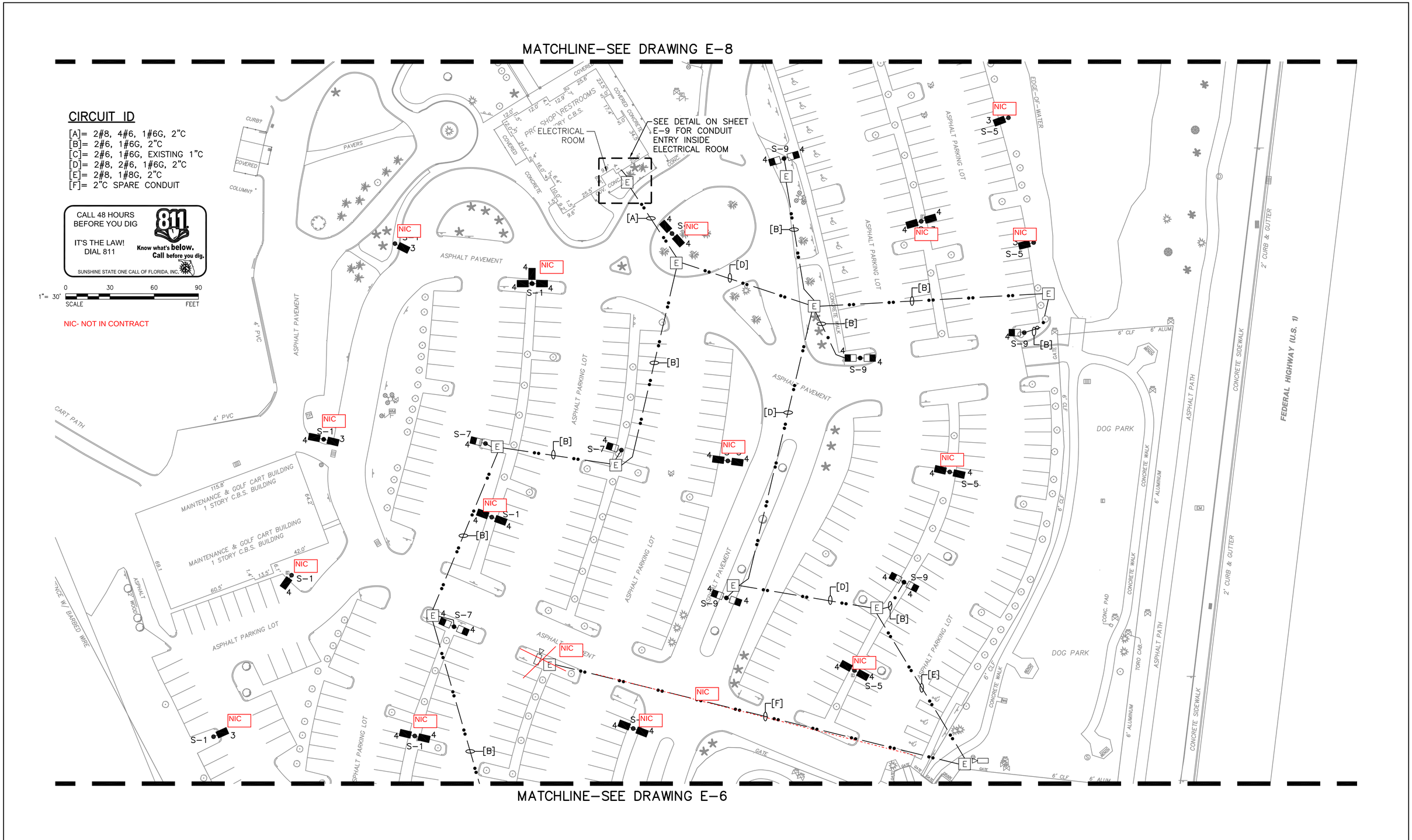
DESIGNED: J.W.K.
APPROVED: A.L.C
SCALE: AS NOTED

POMPANO BEACH MUNICIPAL GOLF COURSE
PARKING LOT LIGHTING

ELECTRICAL INSTALLATION PLAN

DATE: 12/05/2014
P.A. NO.
DWG. NO. E–6
SHEET 6 OF 14



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APPROVED: A.L.C
SCALE: AS NOTED

POMPANO BEACH MUNICIPAL GOLF COURSE PARKING LOT LIGHTING

ELECTRICAL INSTALLATION PLAN

DATE: 12/05/2014
P.A. NO.
DWG. NO. E–7
SHEET 7 OF 14

RELEASE OF FEDERAL
PARCEL 2B \ GOLF COURSE

PARCEL "G"
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ASPHALT PATH

SIGN

NIC

S-5

3

[B]

[C]

E

1

4

4

MATCHLINE-SEE DRAWING E-7

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[B]= 2#6, 1#6G, 2"C
[C]= 2#6, 1#6G, EXISTING 1"C
[D]= 2#8, 2#6, 1#6G, 2"C
[E]= 2#8, 1#8G, 2"C
[F]= 2"C SPARE CONDUIT

NO.	DATE	BY	REVISION

HILLERS ELECTRICAL ENGINEERING, INC.
23257 STATE ROAD 7, SUITE 100
BOCA RATON, FL 33428
(561) 451-9165
(561) 451-4886 FAX
LICENSE NO: EB 0006877

JAMES W. KAPPES
FL. PE. No. 71499

CITY OF POMPANO BEACH
BROWARD COUNTY, FLORIDA

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

FIELD: –
DRAWN: D.E.U
DESIGNED: J.W.K.
APPROVED: A.L.C
SCALE: AS NOTED

POMPANO BEACH MUNICIPAL
GOLF COURSE
PARKING LOT LIGHTING

ELECTRICAL
INSTALLATION PLAN

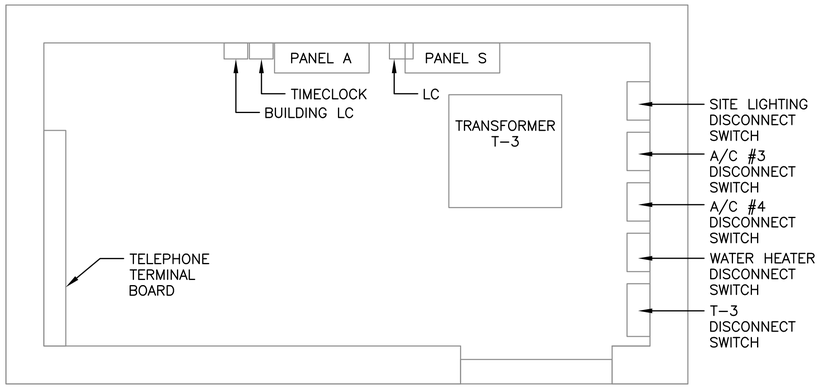
DATE: 12/05/2014
P.A. NO.
DWG. NO. E-8
SHEET 8 OF 14

PANEL S SCHEDULE

BUS AMPS A	BUS AMPS B	BUS AMPS C	CIRCUIT NAME	POLES	AMPS	BUS	AMPS	POLES	CIRCUIT NAME	BUS AMPS A	BUS AMPS B	BUS AMPS C
14.7			SITE LIGHTING	1	20	1 — 2	20	1	TIME SWITCH	1		
	14.7		SITE LIGHTING	1	20	3 — 4	20	1	SPACE			
		12.6	SITE LIGHTING	1	20	5 — 6	20	1	SPARE			
9.9			SITE LIGHTING	1	20	7 — 8			SPACE			
	9.9		SITE LIGHTING	1	20	9 — 10			SPACE			
			SPACE			11 — 12			SPACE			

TOTAL AMPS: BUS A 25.6 BUS B 24.6 BUS C 12.6 KVA 21.25824

RATED VOLTAGE ❒ 120/208 ❒ 240/480 ■ 277/480	Branch Poles ■ 12 ❒24 ❒30 ❒42			Switchboard: ❒
RATED AMPS ■100 ❒225 ❒400 ❒___	Cabinet: ■Surface ❒Flush			
NEUTRAL BUS ■100% ❒150% ❒200%	■GROUND BUS	■HINGED DOOR	■KEYED DOOR LATCH	LOCATION: ELECTRICAL RM
CIRCUIT BREAKER (BOLT IN) BRANCH DEVICES	❒SPD	Enclosure Type ■NEMA 1 ❒NEMA 3R ❒NEMA 4X		
❒MAIN LUGS ONLY	MAIN 40A ■BREAKER	❒ _____ TO BE GFI		
PANELBOARD MUST BE RATED TO INTERRUPT A SHORT CIRCUIT OF 42,000 AMPS SYMETRICAL				
WESTINGHOUSE PANEL TYPE PRL-2	COPPER BUSSES			

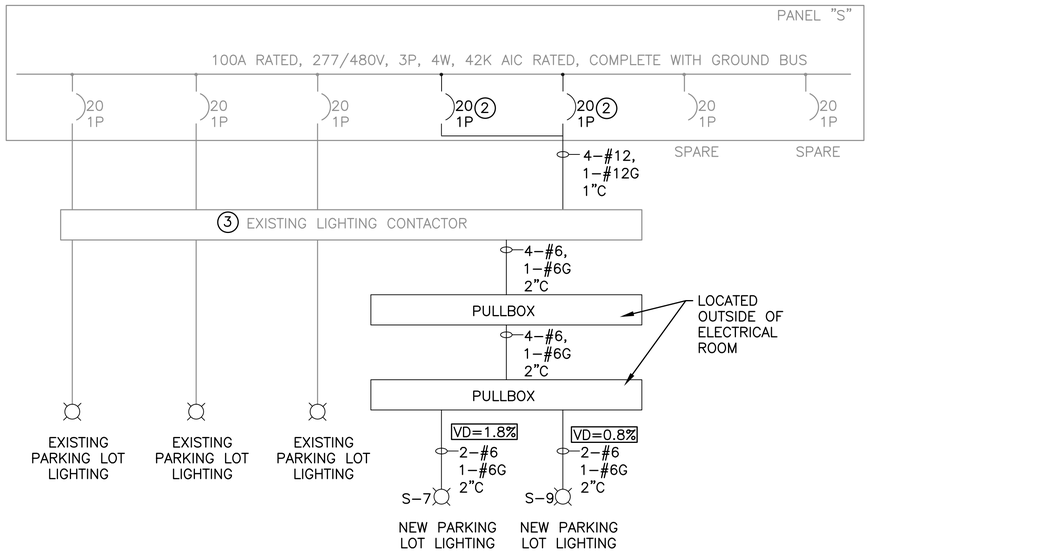


ELECTRICAL ROOM LAYOUT FLOOR PLAN VIEW

NOT TO SCALE

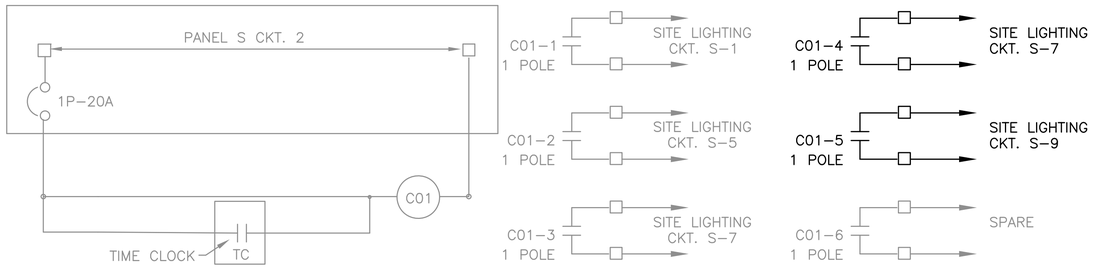
ELECTRICAL ROOM CONDUIT PENETRATION LAYOUT

NOT TO SCALE



PANEL S ONE-LINE DIAGRAM

NOT TO SCALE



LIGHTING CONTROL SCHEMATIC

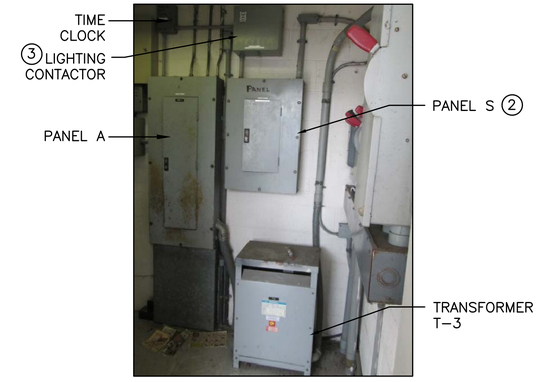
NOT TO SCALE

INSTALLATION NOTES FOR ELECTRICAL ROOM

(1) CONTRACTOR SHALL PATCH AND SEAL PENETRATIONS WITH NON-SHRINK GROUT. PAINT TO MATCH EXISTING FINISH. MAKE ALL NECESSARY CONNECTIONS FOR A COMPLETE WORKING SYSTEM IN PLACE IN A WORKMANSHIP MANNER.

(2) CONTRACTOR SHALL PROVIDE AND INSTALL NEW CIRCUIT BREAKERS INSIDE PANELBOARD S, COMPLETE. MAKE ALL CONNECTIONS NECESSARY FOR A COMPLETE WORKING SYSTEM IN PLACE. SEE PANEL SCHEDULE FOR ADDITIONAL INFORMATION.

(3) CONTRACTOR SHALL INSTALL NEW CONDUCTORS FOR THE NEW PARKING LOT LIGHTING CIRCUIT FROM THE EXISTING PANEL S TO THE EXISTING LIGHTING CONTACTOR AND CONNECT EACH OF THE PARKING LOT CIRCUITS. MAKE ALL CONNECTIONS NECESSARY FOR A COMPLETE WORKING SYSTEM IN PLACE.



PARTIAL ELECTRICAL ROOM LAYOUT PROFILE VIEW

NOT TO SCALE

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JAMES W. KAPPES
FL. PE. No. 71499

CITY OF POMPANO BEACH
BROWARD COUNTY, FLORIDA

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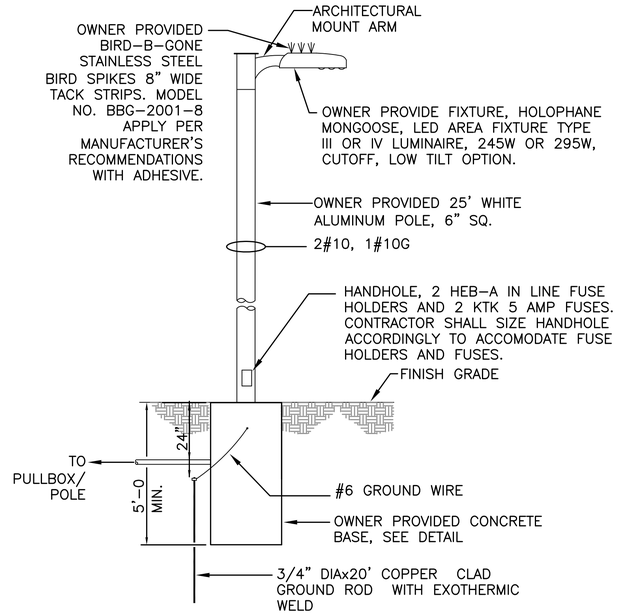
FIELD: –
DRAWN: D.E.U
DESIGNED: J.W.K.
APPROVED: A.L.C
SCALE: NONE

POMPANO BEACH MUNICIPAL GOLF COURSE
PARKING LOT LIGHTING

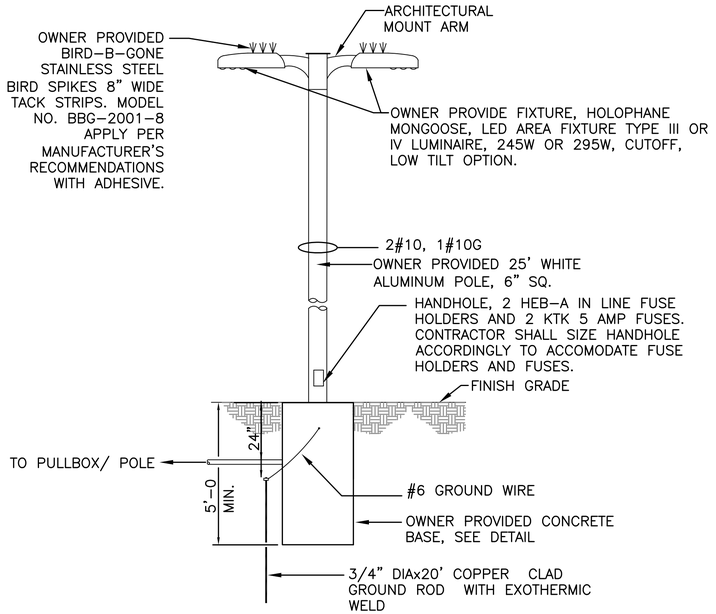
ELECTRICAL RISER
PANEL SCHEDULE AND DETAILS

DATE: 12/05/2014
P.A. NO.
DWG. NO. E-9
SHEET 9 OF 14



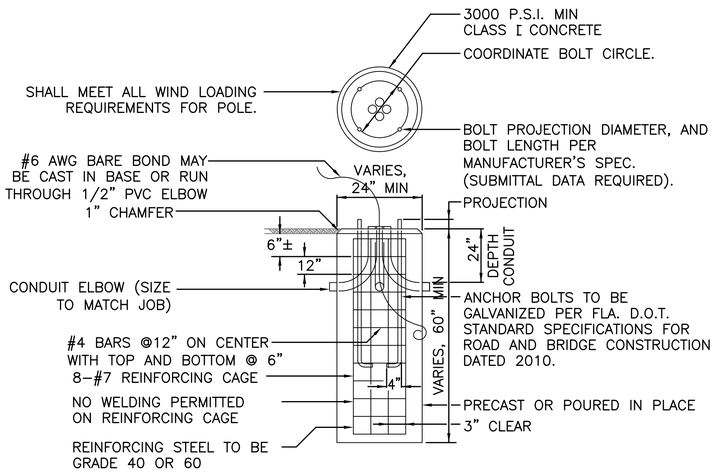
NEW SINGLE LUMINAIRE AND POLE DETAIL

NOT TO SCALE



NEW DOUBLE LUMINAIRE AND POLE DETAIL

NOT TO SCALE

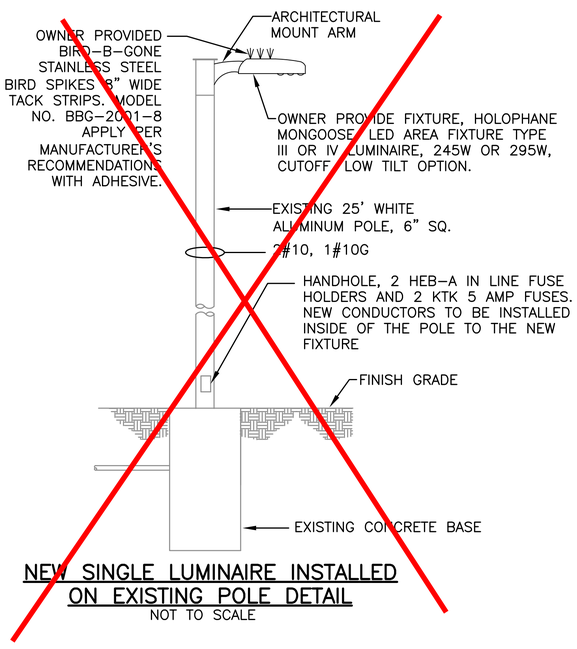


CONCRETE POLE BASE DETAIL

NOT TO SCALE
PROVIDED BY THE CITY OF POMPANO BEACH AND INSTALLED BY CONTRACTOR

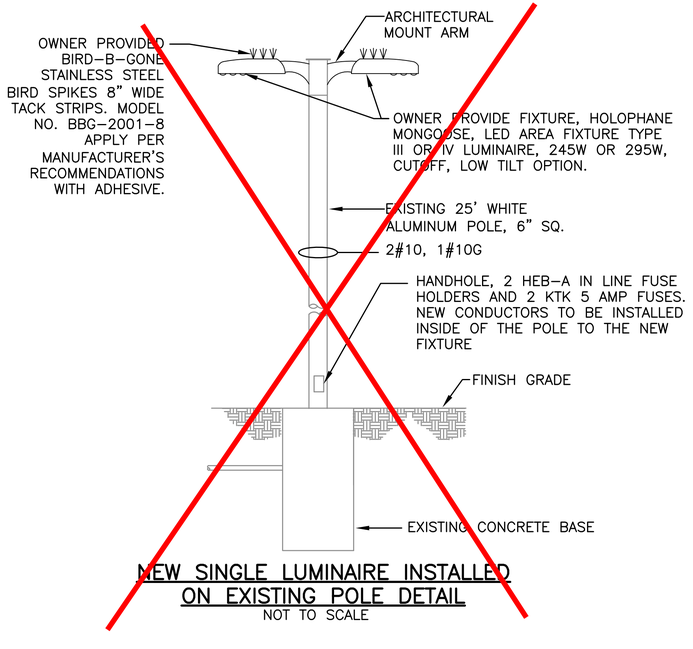
WINDLOADING NOTE:

ALL POLE INSTALLATIONS SHALL BE SUITABLE FOR 170 MPH WIND WITH APPROPRIATE GUST FACTOR PER APPLICABLE ZONE OF INSTALLATION AS DEFINED IN THE FLORIDA BUILDING CODE. A POLE WIND LOADING CALCULATION SIGNED & SEALED BY A STRUCTURAL ENGINEER REGISTERED IN FLORIDA SHOWING THAT THE PROPOSED INSTALLATIONS WILL MEET THE GIVEN WIND LOADING REQUIREMENT SHALL BE PROVIDED BY THE CITY OF POMPANO BEACH.



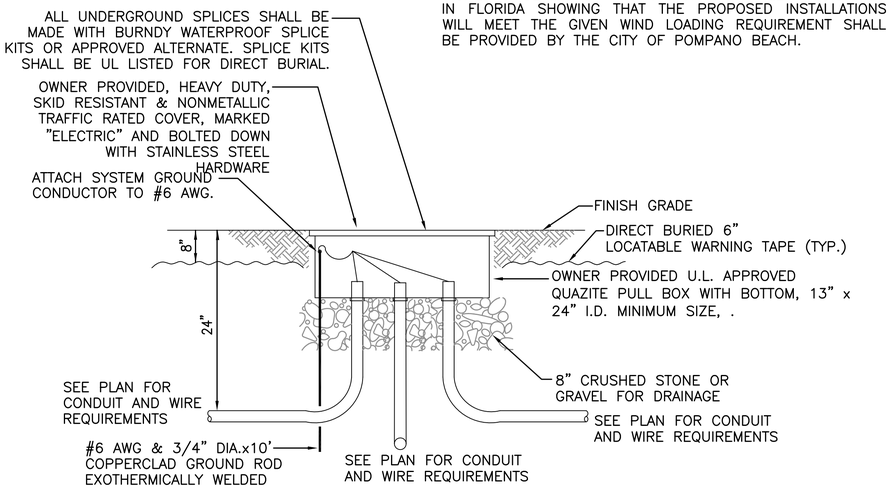
NEW SINGLE LUMINAIRE INSTALLED ON EXISTING POLE DETAIL

NOT TO SCALE



NEW SINGLE LUMINAIRE INSTALLED ON EXISTING POLE DETAIL

NOT TO SCALE



PULL BOX DETAIL

NOT TO SCALE
PROVIDED BY THE CITY OF POMPANO BEACH AND INSTALLED BY CONTRACTOR

NO.	DATE	BY	REVISION

HILLERS ELECTRICAL ENGINEERING, INC.
23257 STATE ROAD 7, SUITE 100
BOCA RATON, FL 33428
(561) 451-9165
(561) 451-4886 FAX
LICENSE NO: EB 0006877

JAMES W. KAPPES
FL. PE. No. 71499

CITY OF POMPANO BEACH
BROWARD COUNTY, FLORIDA

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0 1"
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FIELD:	–
DRAWN:	D.E.U
DESIGNED:	J.W.K.
APPROVED:	A.L.C
SCALE:	NONE

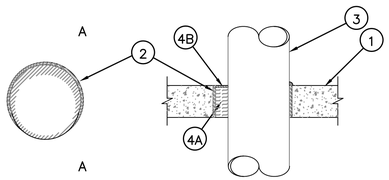
POMPANO BEACH MUNICIPAL GOLF COURSE
PARKING LOT LIGHTING

ELECTRICAL DETAILS

DATE:	12/05/2014
P.A. NO.	
DWG. NO.	E-10
SHEET	10 OF 14

System No. C–AJ–1226

F RATING = 3–HR.
T RATING = 0–HR.
L RATING AT AMBIENT – LESS THAN 1 CFM/SQ FT
L RATING AT 400 F – 4 CFM/SQ FT



SECTION A–A

1. FLOOR OR WALL ASSEMBLY: MIN 4–1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100–150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 32 IN.

2. METALLIC SLEEVE: (OPTIONAL) NOM 32 IN. DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES.

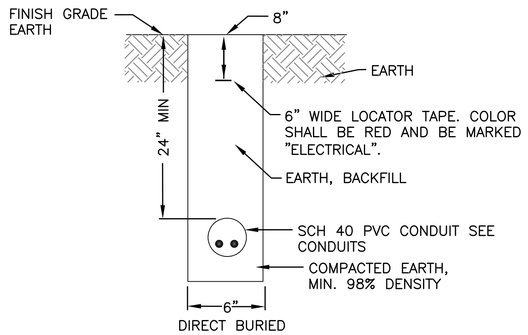
3. THROUGH–PENETRANT ONE METALLIC PIPE OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1–7/8 IN. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:
   - A. STEEL PIPE NOM 30 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   - B. IRON PIPE NOM 30 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   - C. COPPER PIPE NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
   - D. COPPER TUBING NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   - E. CONDUIT NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT. F
   - F. CONDUIT NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT).
4. FIRESTOP SYSTEM THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   - A. PACKING MATERIAL MIN 4 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   - B. FILL, VOID OR CAVITY MATERIAL* –– SEALANT MIN 1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL. AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND CONCRETE, A MIN 1/4 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC
FS–ONE SEALANT *BEARING THE UL CLASSIFICATION MARKING

HILTI FIRESTOP SYSTEMS

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 09, 2003

CLASSIFIED UL



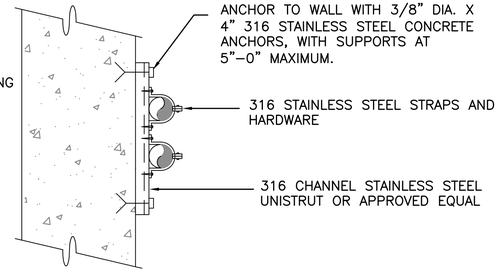
TYPICAL DIRECT BURIED CONDUIT DETAIL
NOT TO SCALE

NOTES:

1. THIS DETAIL TYPICAL FOR BOTH VERTICAL AND HORIZONTAL MOUNTING

2. CHANNEL AND ALL SUPPORT DEVICES TO BE STAINLESS STEEL. FIELD COAT ALL CUTS, ETC. TO MATCH.

3. CHANNELS TO BE SPACED 5' MAXIMUM.



CONDUIT SUPPORT
NOT TO SCALE

NO.	DATE	BY	REVISION

HILLERS ELECTRICAL ENGINEERING, INC.
23257 STATE ROAD 7, SUITE 100
BOCA RATON, FL 33428
(561) 451–9165
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LICENSE NO: EB 0006877

JAMES W. KAPPES
FL. PE. No. 71499

CITY OF POMPANO BEACH
BROWARD COUNTY, FLORIDA

VERIFY SCALES
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0 1"
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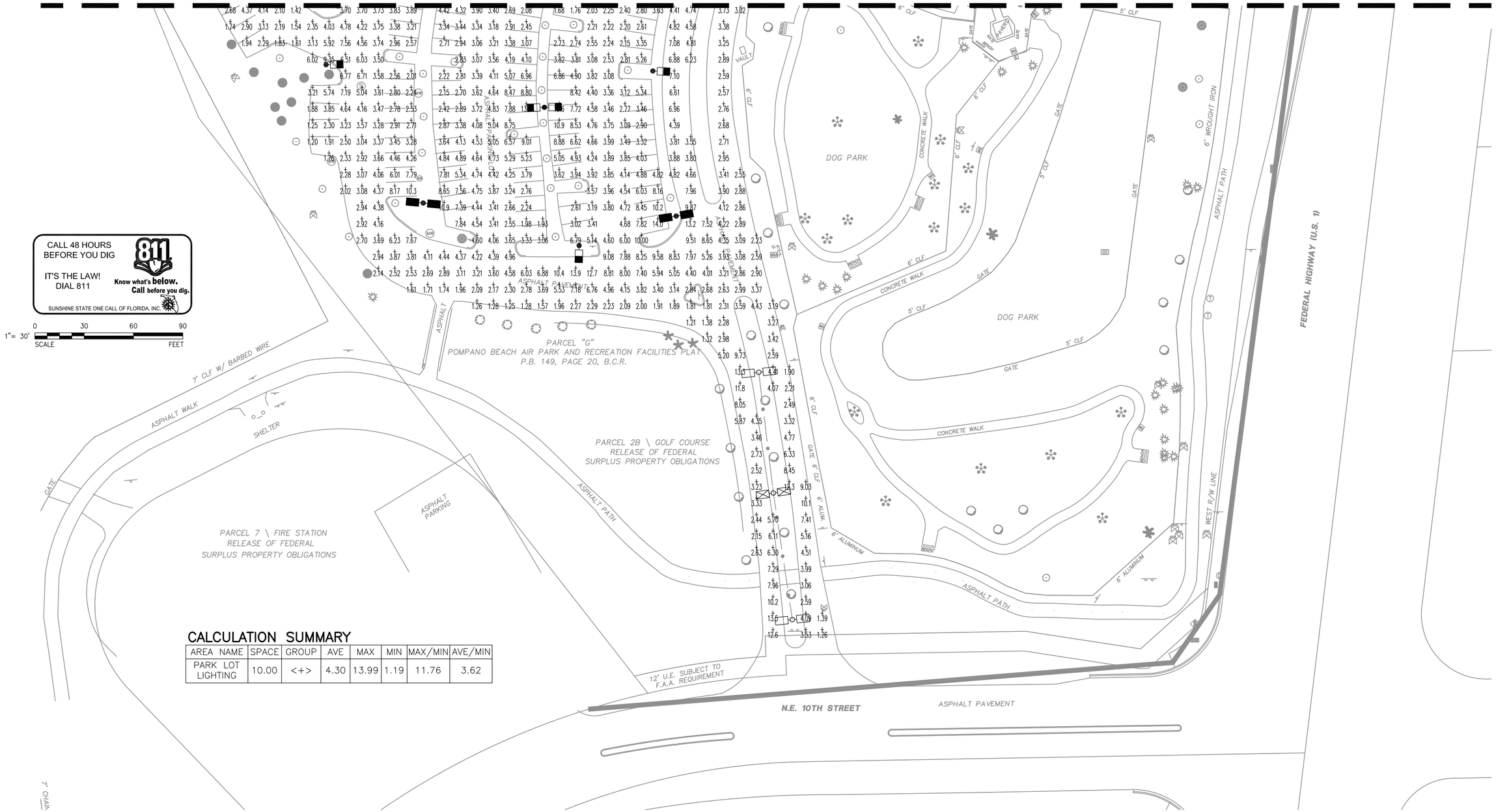
FIELD: –
DRAWN: D.E.U
DESIGNED: J.W.K.
APPROVED: A.L.C
SCALE: NONE

POMPANO BEACH MUNICIPAL GOLF COURSE
PARKING LOT LIGHTING

ELECTRICAL DETAILS

DATE: 12/05/2014
P.A. NO.
DWG. NO. E–11
SHEET 11 OF 14

MATCHLINE–SEE DRAWING E–13



CALCULATION SUMMARY

AREA NAME	SPACE	GROUP	AVE	MAX	MIN	MAX/MIN	AVE/MIN
PARK LOT LIGHTING	10.00	<+>	4.30	13.99	1.19	11.76	3.62

NO.	DATE	BY	REVISION

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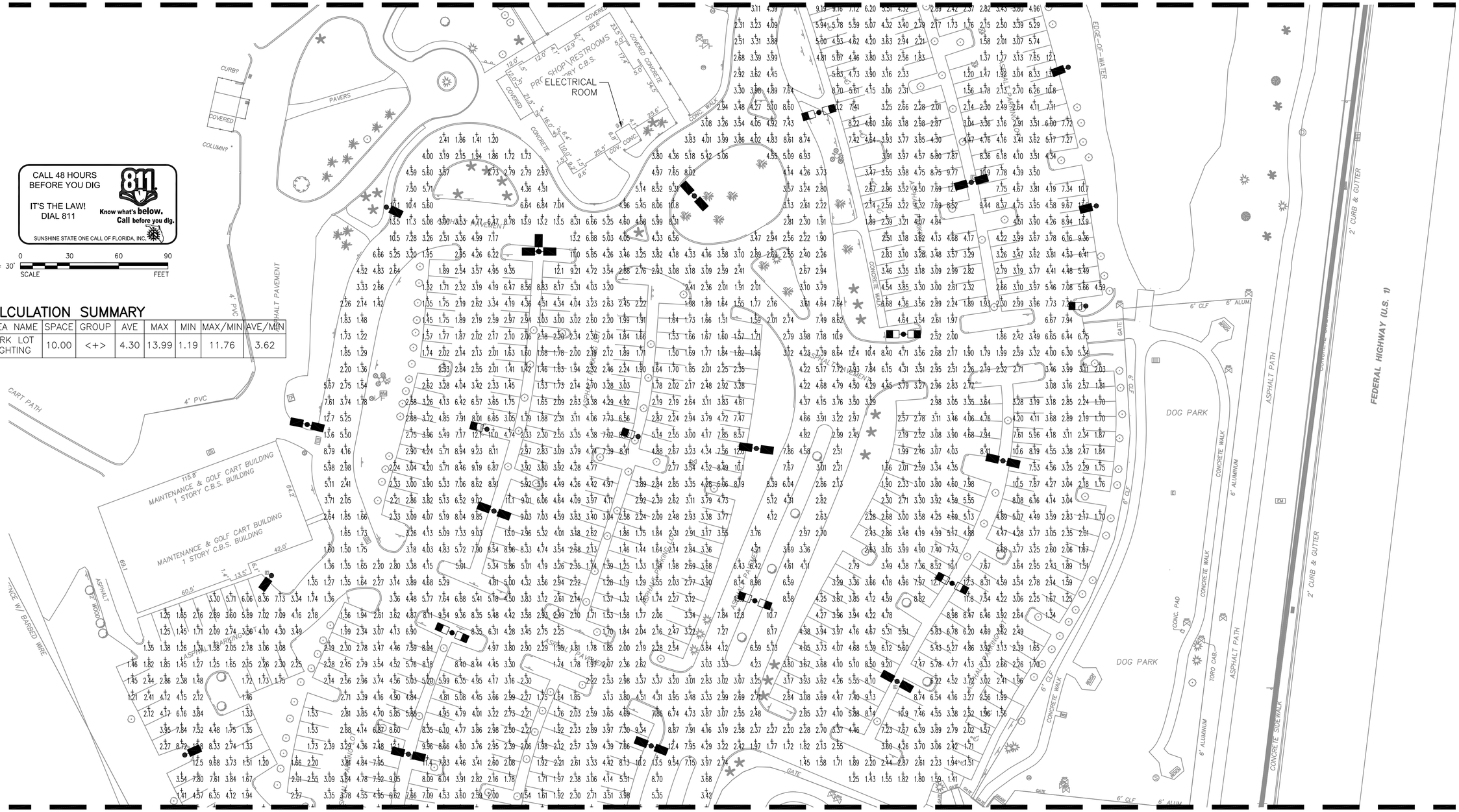
DESIGNED: J.W.K.
APPROVED: A.L.C
SCALE: AS NOTED

POMPANO BEACH MUNICIPAL
GOLF COURSE
PARKING LOT LIGHTING

ELECTRICAL
PHOTOMETRIC PLAN

DATE: 12/05/2014
P.A. NO.
DWG. NO. E–12
SHEET 12 OF 14

MATCHLINE–SEE DRAWING E–14



MATCHLINE–SEE DRAWING E–12

NO.	DATE	BY	REVISION

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23257 STATE ROAD 7, SUITE 100
BOCA RATON, FL 33428
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BROWARD COUNTY, FLORIDA

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APPROVED: A.L.C
SCALE: AS NOTED

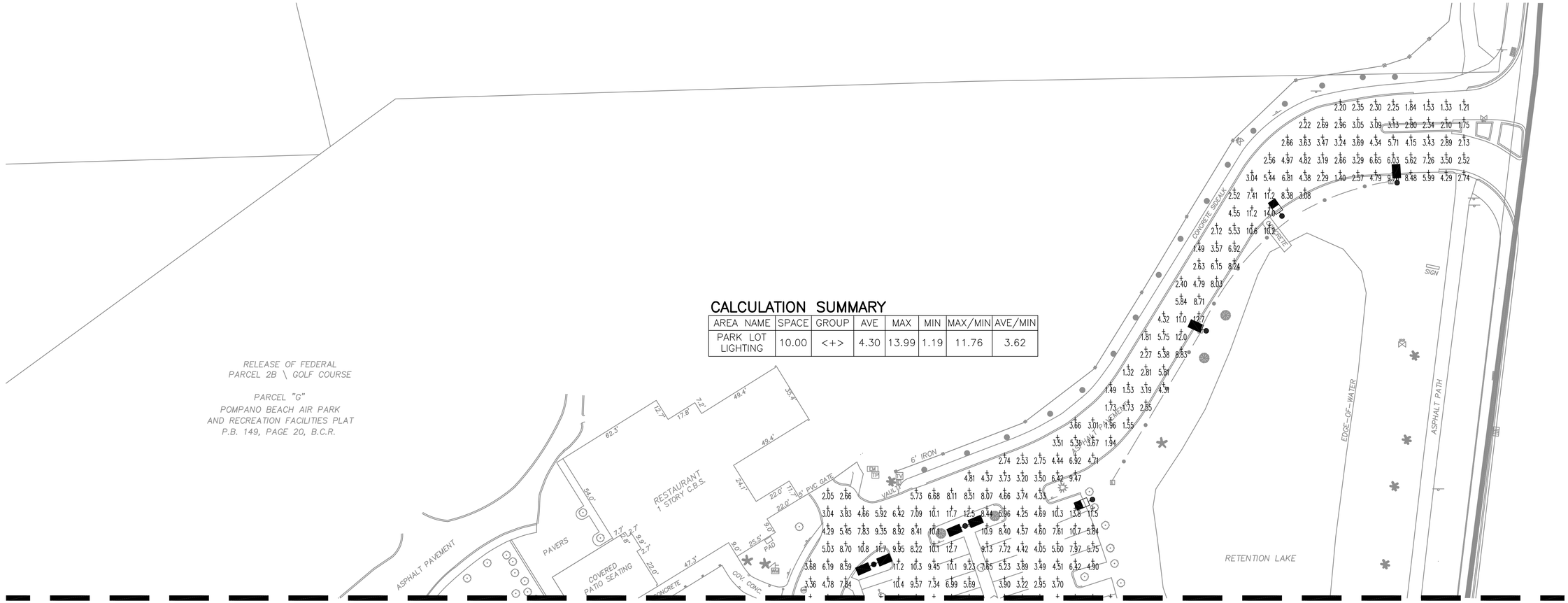
POMPANO BEACH MUNICIPAL GOLF COURSE
PARKING LOT LIGHTING

ELECTRICAL PHOTOMETRIC PLAN

DATE: 12/05/2014
P.A. NO.
DWG. NO. E–13
SHEET 13 OF 14

CALCULATION SUMMARY

AREA NAME	SPACE	GROUP	AVE	MAX	MIN	MAX/MIN	AVE/MIN
PARK LOT LIGHTING	10.00	<+>	4.30	13.99	1.19	11.76	3.62



CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

811 Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

1"= 30' SCALE 0 30 60 90 FEET

NO.	DATE	BY	REVISION

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POMPANO BEACH MUNICIPAL
GOLF COURSE
PARKING LOT LIGHTING

ELECTRICAL
PHOTOMETRIC PLAN

DATE: 12/05/2014
P.A. NO.
DWG. NO. E–14
SHEET 14 OF 14

MATCHLINE–SEE DRAWING E–7

CIRCUIT ID

[A]= 2#8, 4#6, 1#6G, 2"C
[B]= 2#6, 1#6G, 2"C
[C]= 2#6, 1#6G, EXISTING 1"C
[D]= 2#8, 2#6, 1#6G, 2"C
[E]= 2#8, 1#8G, 2"C
[F]= 2"C SPARE CONDUIT

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

1"= 30' SCALE 0 30 60 90 FEET

Tench along edge of asphalt

Add pull boxes to avoid trenching root zones of trees as discussed on site

12 13 14 15 16 17 18

ASPHALT PARKING LOT
ASPHALT PAVEMENT
PARCEL "G" POMPANO BEACH AIR PARK AND RECREATION FACILITIES PLAT P.B. 149, PAGE 20, B.C.R.
PARCEL 2B \ GOLF COURSE RELEASE OF FEDERAL SURPLUS PROPERTY OBLIGATIONS
PARCEL 7 \ FIRE STATION RELEASE OF FEDERAL SURPLUS PROPERTY OBLIGATIONS
7' CLF W/ BARBED WIRE
ASPHALT WALK
SHELTER
GATE
ASPHALT PARKING
12' U.E. SUBJECT TO F.A.A. REQUIREMENT
1' CHAIN
DOG PARK
CONCRETE WALK
6' CLF
5' CLF
GATE
VAULT
BENCH
6' ALUMINUM
5' ALUM.
6' WROUGHT IRON
ASPHALT PATH
FEDERAL HIGHWAY (U.S. 1)
WEST R/W LINE
N.E. 10TH STREET
ASPHALT PAVEMENT

ORIGINAL

COMMENTS ARE FROM THE CITY OF POMPANO URBAN FORESTER

NO.	DATE	BY	REVISION

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23257 STATE ROAD 7, SUITE 100
BOCA RATON, FL 33428
(561) 451-9165
(561) 451-4886 FAX
LICENSE NO: EB 0006877

JAMES W. KRAPFEL LICENSE No. 70439 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAMES W. KRAPFEL, PE, PE. No. 70439

CITY OF POMPANO BEACH
BROWARD COUNTY, FLORIDA

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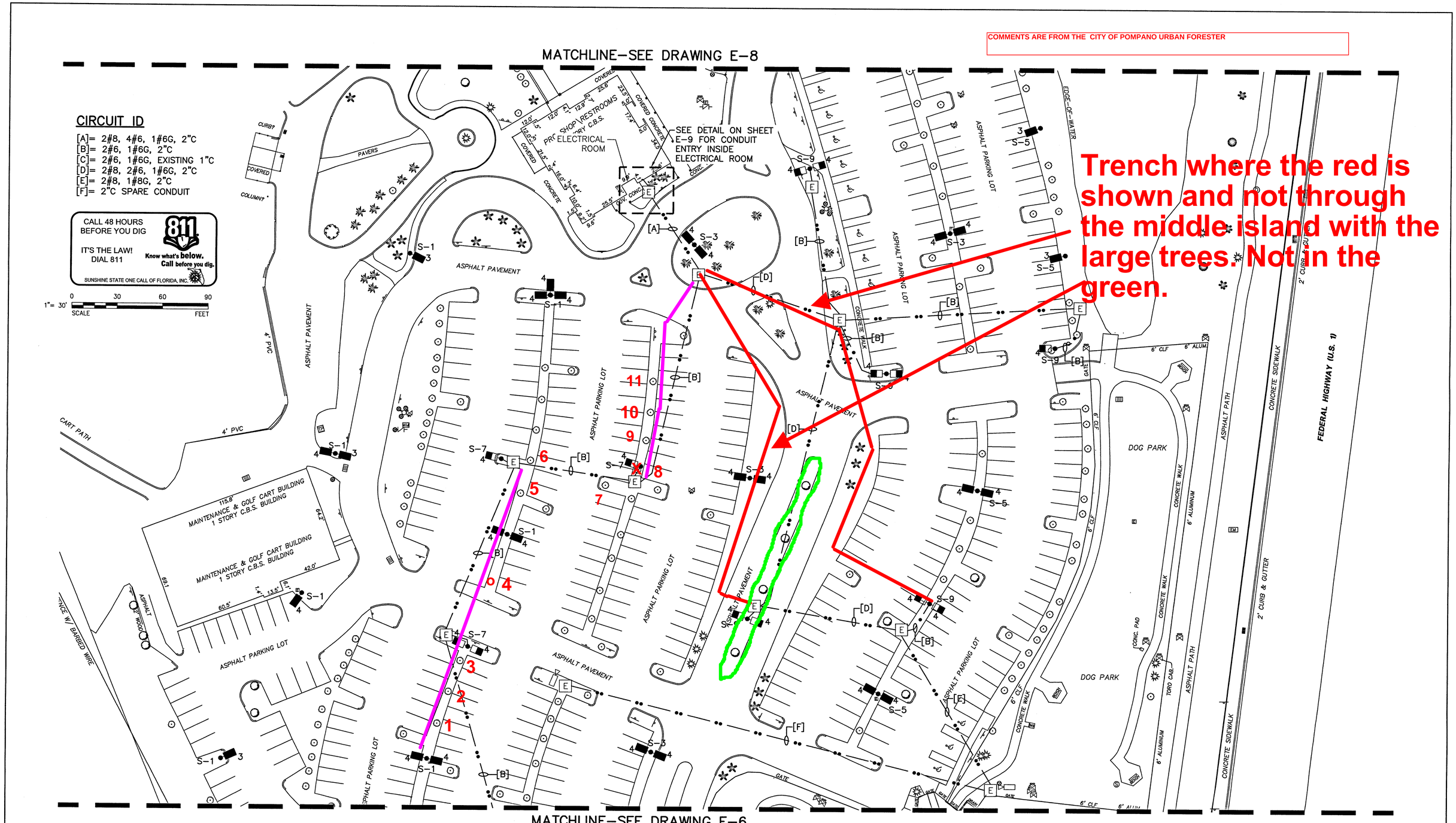
APPROVED: A.L.C
SCALE: AS NOTED

POMPANO BEACH MUNICIPAL GOLF COURSE
PARKING LOT LIGHTING

ELECTRICAL INSTALLATION PLAN

DATE: 12/05/2014
P.A. NO.
DWG. NO. E–6
SHEET 6 OF 14

COMMENTS ARE FROM THE CITY OF POMPANO URBAN FORESTER



Trench where the red is shown and not through the middle island with the large trees. Not in the green.

ORIGINAL

NO.	DATE	BY	REVISION

HILLERS ELECTRICAL ENGINEERING, INC.
23257 STATE ROAD 7, SUITE 100
BOCA RATON, FL 33428
(561) 451–9165
(561) 451–4886 FAX
LICENSE NO: EB 0006877

JAMES W. KAPPES LICENSE No. 71499 STATE OF FLORIDA 8/25/15 PROFESSIONAL ENGINEER

CITY OF POMPANO BEACH
BROWARD COUNTY, FLORIDA

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DESIGNED: J.W.K.
APPROVED: A.L.C
SCALE: AS NOTED

POMPANO BEACH MUNICIPAL GOLF COURSE PARKING LOT LIGHTING

ELECTRICAL INSTALLATION PLAN

DATE: 12/05/2014
P.A. NO.
DWG. NO. E–7
SHEET 7 OF 14