

# WOODBIDGE TOWNSHIP DIVISION OF ENGINEERING PLANS FOR LIGHTING IMPROVEMENTS TO INMAN AVENUE (C.R. 602) FROM JORDAN ROAD TO WEST STREET LOCATED IN TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY MARCH 2022

### INDEX OF UTILITIES

**GAS**  
ELIZABETHTOWN GAS COMPANY  
520 GREEN LANE  
UNION, NJ 07083  
ATTN: JOHN EGGOLT  
TEL. 908-662-8319

**TELEPHONE**  
VERIZON COMMUNICATIONS  
999 WEST MAIN STREET  
FREEHOLD, NJ 07728  
ATTN: IAN CHAN  
TEL. 732-683-5146

**ELECTRIC**  
PUBLIC SERVICE ELECTRIC AND GAS COMPANY  
472 WESTON CANAL ROAD  
SOMERSET, NJ 08873  
ATTN: JOHN GRABENSTEIN  
TEL. 732-764-3050

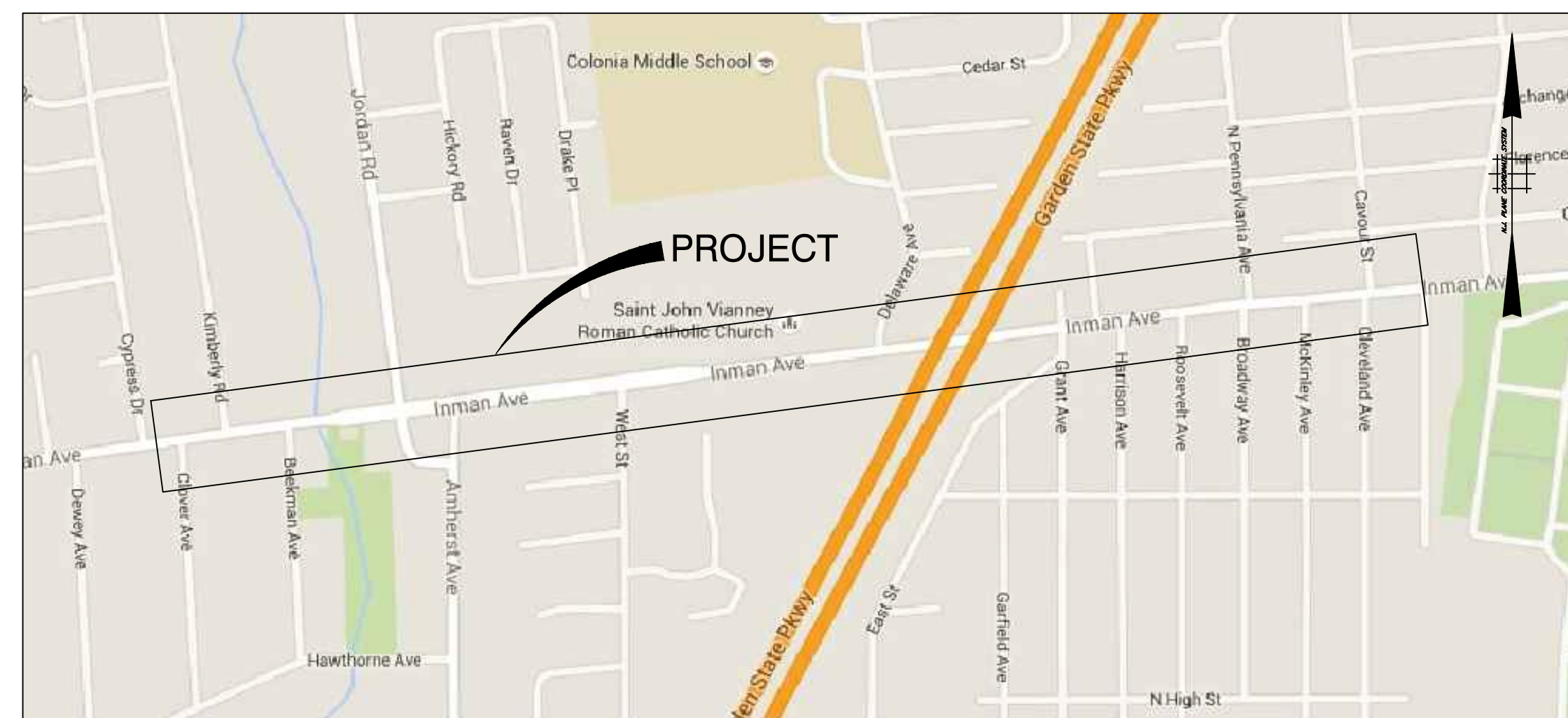
**CABLE T.V.**  
CABLEVISION  
275 CENTENNIAL AVENUE  
PISCATAWAY, NJ 08855  
ATTN: ELVIN GUILLEN  
TEL. 732-317-7070

**SANITARY SEWER**  
DIVISION OF ENGINEERING  
ONE MAIN STREET  
WOODBIDGE, NJ 07095  
ATTN: MICHAEL GELIN  
TEL. 732-602-6047

**STORM SEWER**  
DIVISION OF ENGINEERING  
ONE MAIN STREET  
WOODBIDGE, NJ 07095  
ATTN: MICHAEL GELIN  
TEL. 732-602-6047

**WATER**  
MIDDLESEX WATER COMPANY  
1500 RONSON ROAD, P.O. BOX 1500  
ISELIN, NJ 08830  
ATTN: ISIDRO BUEN  
TEL. 732-634-1500

**ONE CALL** One Call Underground Location Service  
Plainfield, NJ 07063 1-800-272-1000



## KEY MAP

SCALE: N.T.S.

### INDEX OF SHEETS

SHEET NO.	REF. NO.	DESCRIPTION
1	-	TITLE AND KEY MAP
2 - 5	L-1 TO L-4	LIGHTING PLAN
6	D-1	LIGHTING POLE DETAIL
7-8	D-2 TO D-3	CLOCK TOWER DETAIL
9 - 16	T-1 TO T-8	CONSTRUCTION TIES

**NOTE:**  
LOCATION OF UTILITIES AS SHOWN ON THESE PLANS ARE PLOTTED FROM AVAILABLE DATA ON FILE WITH THE UTILITY COMPANIES AND IS NOT GUARANTEED AS TO EXACTNESS. THE CONTRACTOR IS TO CONTACT UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION TO DETERMINE EXACT LOCATION AND DEPTH OF UTILITIES. THE CONTRACTOR SHALL USE THE UTILITY LOCATIONS SHOWN AS AN AID IN DETERMINING EXACT LOCATIONS.

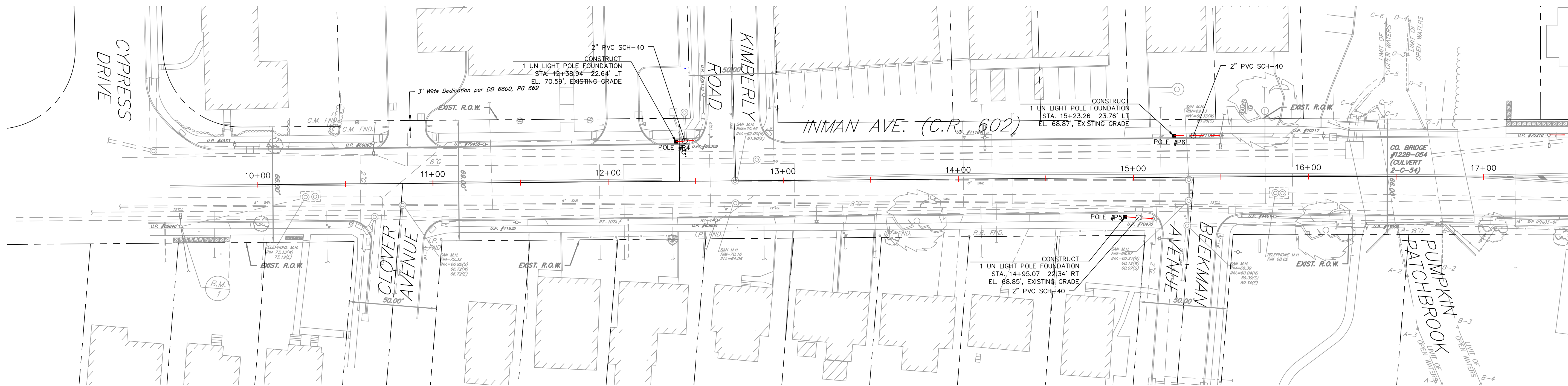
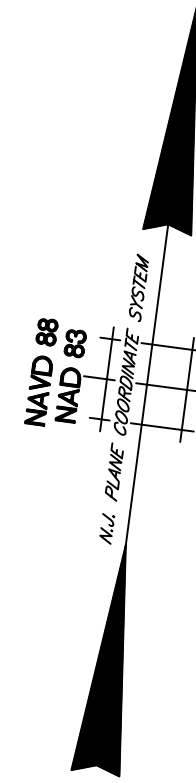
NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF 2007 (US CUSTOMARY ENGLISH UNITS) AND MIDDLESEX COUNTY SUPPLEMENTARY SPECIFICATIONS SHALL GOVERN.

THE HEADING OF ARTICLES CONTAINED HEREIN CONFORM TO THE NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2007 AND ALL ADDENDA THERETO WHICH IS TO BE USED IN THE EXECUTION OF THIS CONTRACT.

THE NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD ROADWAY CONSTRUCTION/ TRAFFIC CONTROL/BRIDGE CONSTRUCTION DETAILS" BOOKLET DATED 2007 AND "ELECTRICAL BUREAU STANDARD DETAILS (2007) TO GOVERN, EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.

 <b>RICHARD A. ALAIMO ENGINEERING COMPANY</b> Consulting Engineers <small>NJCA 24GA2798800</small> 200 HIGH STREET    MOUNT HOLLY, N.J. 2 MARKET STREET    PATERSON, N.J.	<b>Woodbridge Township Division of Engineering 1 Main Street, Woodbridge, NJ 07095</b>	
	<b>LIGHTING IMPROVEMENTS TO INMAN AVENUE (C.R. 602) FROM JORDAN ROAD TO WEST STREET TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY</b>	
<b>TITLE AND KEY MAP</b>		
Designed By	Drawn By	Scale: AS NOTED
Checked By	Dept. Head	Sheet No. 1 of 16 Date: MARCH 2022
RAA PROJECT NO. MH-21-124		<b>Michael Gelin, P.E.</b> <i>Woodbridge Township Engineer</i>

# TOWNSHIP OF WOODBRIDGE



MATCHLINE STA. 17+50

### NOTES:

1. CONDUIT TO BE PVC SCHEDULE 40 BELOW GRADE, RGS SWEEPS AND ABOVE GRADE. CONDUIT TO BE SCHEDULE 80 BELOW ROADS. SWEEPS MUST BE 24" LARGE RADIUS.
2. CONTRACTOR SHALL DETERMINE EXACT ROUTING UPON INSPECTION OF ACTUAL FIELD LOCATIONS OF UNDERGROUND UTILITIES/PIPING AND COORDINATION WITH THE OWNER AND THE ENGINEER.
3. METALLIC FOIL "DANGER HIGH VOLTAGE TAPE" SHALL BE PROVIDED 1'-0" BELOW GRADE ABOVE ALL ELECTRICAL CONDUITS.
4. RESTORATION OF AREAS DISTURBED SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND AS DIRECTED BY THE ENGINEER.
5. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN AND PROTECT VEHICULAR AND PEDESTRIAN TRAFFIC DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL LIGHTING IMPROVEMENTS INCLUDING CONCRETE FOUNDATIONS AND CONDUIT, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND AS PER PSE&G REQUIREMENTS.
7. CONTRACTOR WILL PROVIDE THE LIGHT POLE FOUNDATION COMPLETE WITH CONDUITS FOR POWER/GROUNDING AND ANCHOR BOLTS. ONE GROUNDING CONDUCTOR IS REQUIRED FOR EACH.
8. THE CONTRACTOR WILL NOT BE PERMITTED TO INSTALL ANY BASE PAVEMENT OR SIDEWALK ON THE PROJECT UNTIL IT HAS BEEN CONFIRMED THAT THE UNDERGROUND CONDUITS HAVE BEEN INSTALLED IN ACCORDANCE WITH LIGHTING PLAN. THE CONTRACTOR WILL NOT BE PERMITTED TO INSTALL THE TOP COURSE OF PAVEMENT OR ANY TOPSOIL UNTIL SUCH A TIME AS ALL ELECTRICAL CONDUIT REQUIRED FOR THE PROJECT HAS BEEN COMPLETED.
9. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF LIGHT POLES/CONDUIT RUNS PRIOR TO CONSTRUCTION.
10. CONDUIT GOING UP THE RISER POLE MUST BE SCH. 80 PVC AND RUN 8 - 11 FEET UP THE POLE - FASTENED EVERY 2 FEET WITH GALVANIZED STRAPS.
11. RISER MUST BE ON REAR QUARTER SIDE OF POLE AWAY FROM TRAFFIC.
12. GROUND ROD MUST PROJECT 6" ABOVE LEVEL OF BASE.
13. CUT DUCTS 2" ABOVE LEVEL OF BASE.
14. ROD AND ROPE DUCTS (USE MIN. OF 3/4" NYLON ROPE).
15. CAP OR TAPE-OFF DUCTS TO PREVENT DEBRIS FROM GETTING INTO PIPES.
16. BOLT CIRCLE DIAMETER MUST MATCH THE BOLT PATTERN PROVIDED BY PSE&G, OTHERWISE IT WILL BE THE CONTRACTORS RESPONSIBILITY TO MAKE ANY CHANGES.
17. BOLTS, WASHERS, & NUTS MUST BE GALVANIZED OR RUST PROOF. BOLTS MUST BE AT PROPER HEIGHT.

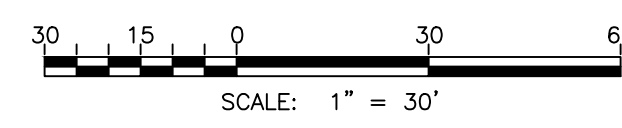
- INSTALL STREET LIGHT/FOUNDATION
- INSTALL UG CABLE
- INSTALL WOOD FEED POLE
- ✕ INSTALL OH STLT WIRE

18. LEAVE WASHERS AND NUTS ON BOLTS, TIGHTEN DOWN LIGHTLY SO THEY CAN NOT BE REMOVED WITHOUT A TOOL.
19. NOTIFY PSE&G WHEN FOUNDATIONS AND BOLTS ARE READY TO BE INSPECTED.
20. DOTIFY PSE&G WHEN READY FOR POLE INSTALLATIONS.
21. NOTIFY PSE&G WHEN TRENCH IS OPEN AND READY TO BE INSPECTED - PSE&G WILL INSTALL ITS OWN WIRE.
22. TRENCH MUST BE MIN. OF 6" WIDE AND 30" DEEP.
23. 6" OF CLEAN SAND BELOW AND ABOVE CONDUIT.

LUMINAIRE SCHEDULE									
SYMBOL	QTY	LABEL	ARRANGEMENT	LUM. LUMENS	LUM. WATTS	LLF	DESCRIPTION	[MANUFAC]	FILE NAME
□	24	05-9960	SIGNAL	8320	87.6	0.85	C4732F-A, 6ALED, T5, 4000 K, 450mA, 12FT Pole	PHILIPS HADCO	RL52xDxxxWxxNx4kxxxx-GX4.ies

CALCULATION SUMMARY								
LABEL	CALC TYPE	UNITS	AV	MAX	MIN	AVG/MIN	Max/Min	DESCRIPTION
INMAN AVENUE	illumiance	Fc	0.42	2.1	0	N.A.	N.A.	10ft x 5ft Grid

TO BE CONSTRUCTED		
ITEM DESCRIPTION	UNIT	CONTRACT QUANTITY
CONDUIT	LF	102
LIGHT FOUNDATION	UNIT	3



Plotted: 3/4/2022 3:42 PM Last saved: 3/4/2022 3:36 PM File Name: K:\Projects\B01450073000\2021-12-gelin Lighting Plan\CAD files\GELIN - Lighting Plan Updated.dwg

**RICHARD A. ALAIMO ENGINEERING COMPANY**  
Consulting Engineers  
NJDEA 24GA2798800

200 HIGH STREET MOUNT HOLLY, N.J.  
2 MARKET STREET PATERSON, N.J.

*Richard A. Alaimo - P.E.*  
N.J. PROFESSIONAL ENGINEER  
LICENSE NO. 13195

RAA PROJECT NO.  
MH-21-124

Woodbridge Township  
Division of Engineering  
1 Main Street, Woodbridge, NJ 07095

LIGHTING IMPROVEMENTS TO INMAN AVENUE (C.R. 602)  
FROM JORDAN ROAD TO WEST STREET  
TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY

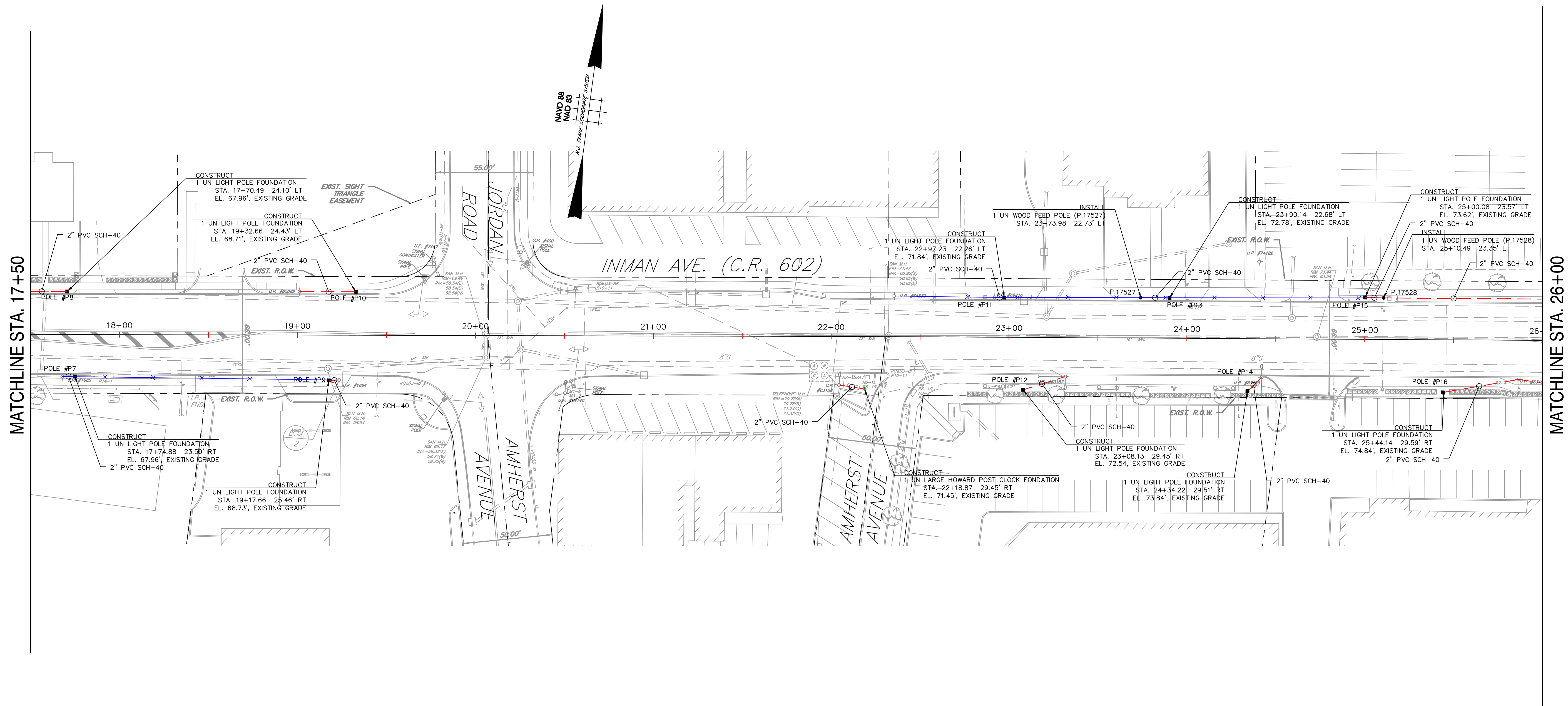
**STREET LIGHTING PLAN**

Designed By	Drawn By	Scale: 1" = 30'
Checked By	Dept. Head	Sheet No. 2 of 16
		Date: MARCH 2022

*Michael Gelin, P.E.*  
Woodbridge Township Engineer

L-1  
L-4

# TOWNSHIP OF WOODBRIDGE

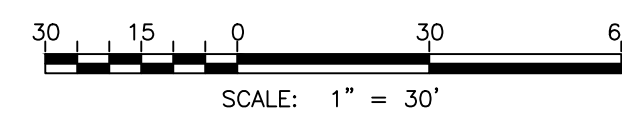


MATCHLINE STA. 17+50

MATCHLINE STA. 26+00

- INSTALL STREET LIGHT/FOUNDATION
- INSTALL UG CABLE
- INSTALL WOOD FEED POLE
- ✕ INSTALL OH STLT WIRE

TO BE CONSTRUCTED		
ITEM DESCRIPTION	UNIT	CONTRACT QUANTITY
CONDUIT	LF	344
LIGHT FOUNDATION	UNIT	10
4-DIAL WASHINGTON POST CLOCK	LS	1
OH STLT WIRE	LF	450
WOOD FEED POLE	UNIT	2



**Richard A. Alaimo Engineering Company**  
 Consulting Engineers  
 NJDCA 24GA27988000  
 200 HIGH STREET MOUNT HOLLY, N.J.  
 2 MARKET STREET PATERSON, N.J.

*Richard A. Alaimo - P.E.*  
 N.J. PROFESSIONAL ENGINEER  
 LICENSE NO. 13195

RAA PROJECT NO.  
 MH-21-124

Woodbridge Township  
 Division of Engineering  
 1 Main Street, Woodbridge, NJ 07095

LIGHTING IMPROVEMENTS TO INMAN AVENUE (C.R. 602)  
 FROM JORDAN ROAD TO WEST STREET  
 TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY

STREET LIGHTING PLAN

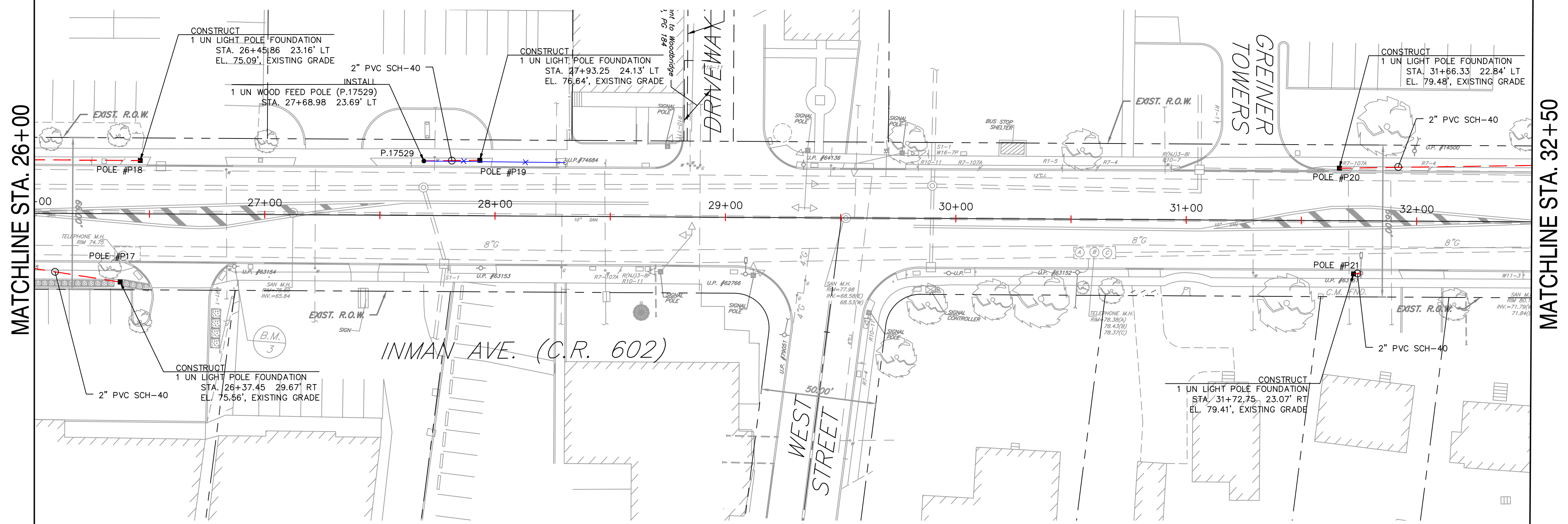
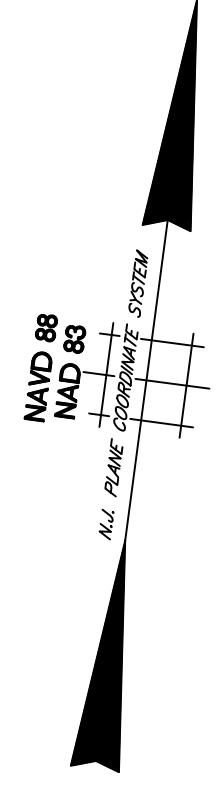
Designed By: Drawn By: Scale: 1" = 30'  
 Checked By: Dept. Head: Sheet No. 3 of 16  
 Date: MARCH 2022

*Michael Gelin, P.E.*  
 Woodbridge Township Engineer

Plotted: 3/4/2022 3:42 PM Last saved: 3/4/2022 3:36 PM File Name: K:\Projects\B01450073000\2021-12-gelin Lighting Plan\CAD files\GELIN - Lighting Plan Updated.dwg

L-2  
 L-4

# TOWNSHIP OF WOODBRIDGE

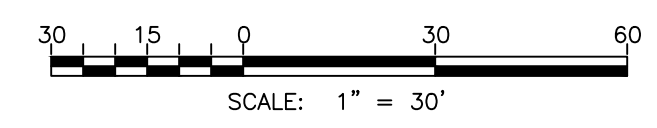


MATCHLINE STA. 26+00

MATCHLINE STA. 32+50

- INSTALL STREET LIGHT/FOUNDATION
- INSTALL UG CABLE
- INSTALL WOOD FEED POLE
- ✕ INSTALL OH STLT WIRE

TO BE CONSTRUCTED		
ITEM DESCRIPTION	UNIT	CONTRACT QUANTITY
CONDUIT	LF	402
LIGHT FOUNDATION	UNIT	5
OH STLT WIRE	LF	60
WOOD FEED POLE	UNIT	1

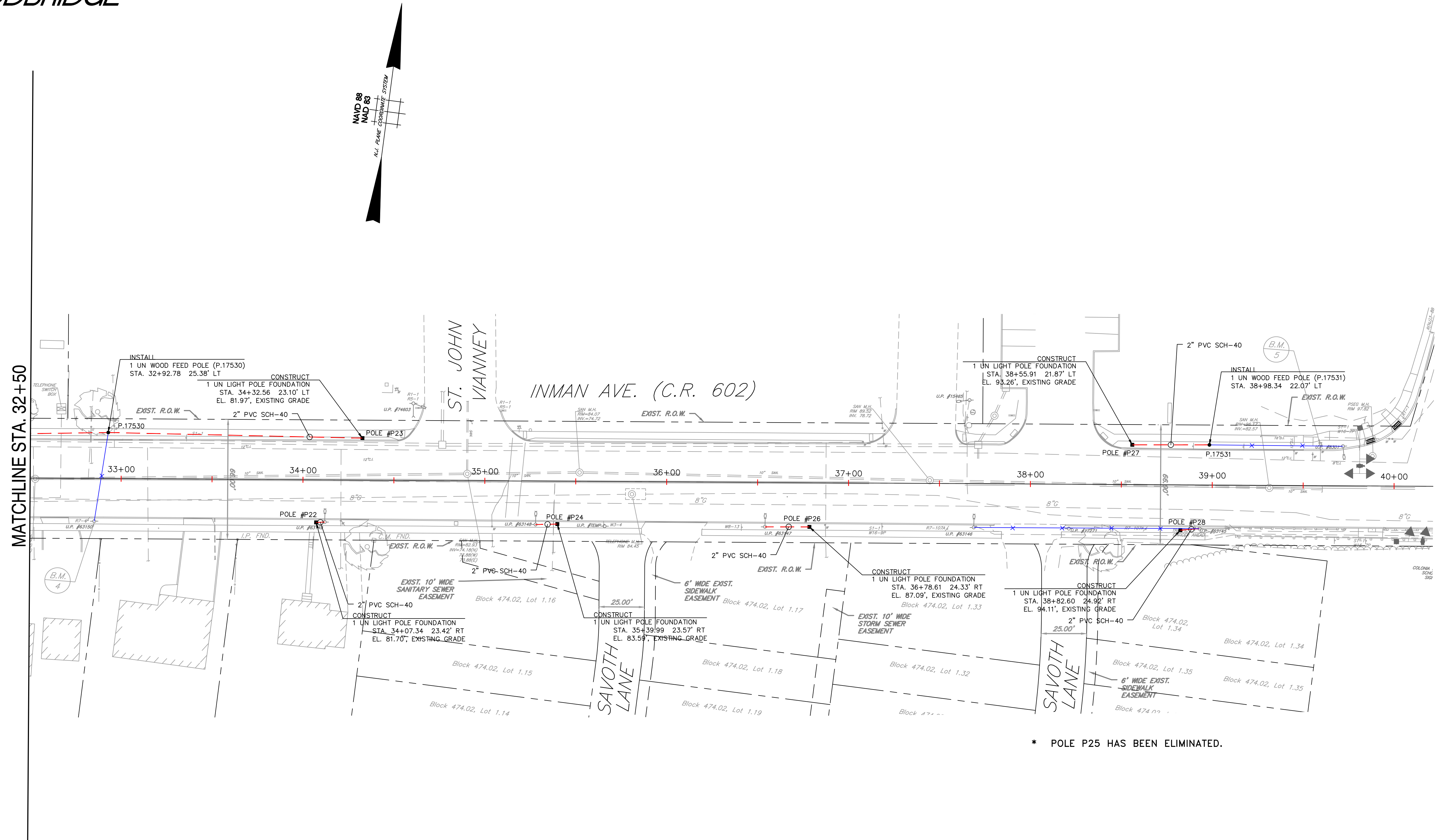


L-3  
L-4

 <b>RICHARD A. ALAIMO</b> ENGINEERING COMPANY Consulting Engineers NJDCA 24GA27988800 200 HIGH STREET MOUNT HOLLY, N.J. 2 MARKET STREET PATERSON, N.J.	Woodbridge Township Division of Engineering 1 Main Street, Woodbridge, NJ 07095	
	LIGHTING IMPROVEMENTS TO INMAN AVENUE (C.R. 602) FROM JORDAN ROAD TO WEST STREET TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY	
<b>STREET LIGHTING PLAN</b>		
Designed By Checked By	Drawn By Dept. Head	Scale: 1" = 30' Sheet No. 4 of 16 Date: MARCH 2022
Richard A. Alaimo - P.E. N.J. PROFESSIONAL ENGINEER LICENSE NO. 13195 RAA PROJECT NO. MH-21-124		
Michael Gelin, P.E. Woodbridge Township Engineer		

Plotted: 3/4/2022 3:42 PM Last saved: 3/4/2022 3:36 PM File Name: K:\Projects\B01450073000\2021-12-gelin Lighting Plan\CAD files\GELIN - Lighting Plan Updated.dwg

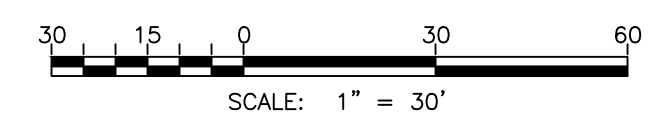
# TOWNSHIP OF WOODBRIDGE



\* POLE P25 HAS BEEN ELIMINATED.

- INSTALL STREET LIGHT/FOUNDATION
- INSTALL UG CABLE
- INSTALL WOOD FEED POLE
- ✕ INSTALL OH STLT WIRE

TO BE CONSTRUCTED		
ITEM DESCRIPTION	UNIT	CONTRACT QUANTITY
CONDUIT	LF	376
LIGHT FOUNDATION	UNIT	6
OH STLT WIRE	LF	240
WOOD FEED POLE	UNIT	2

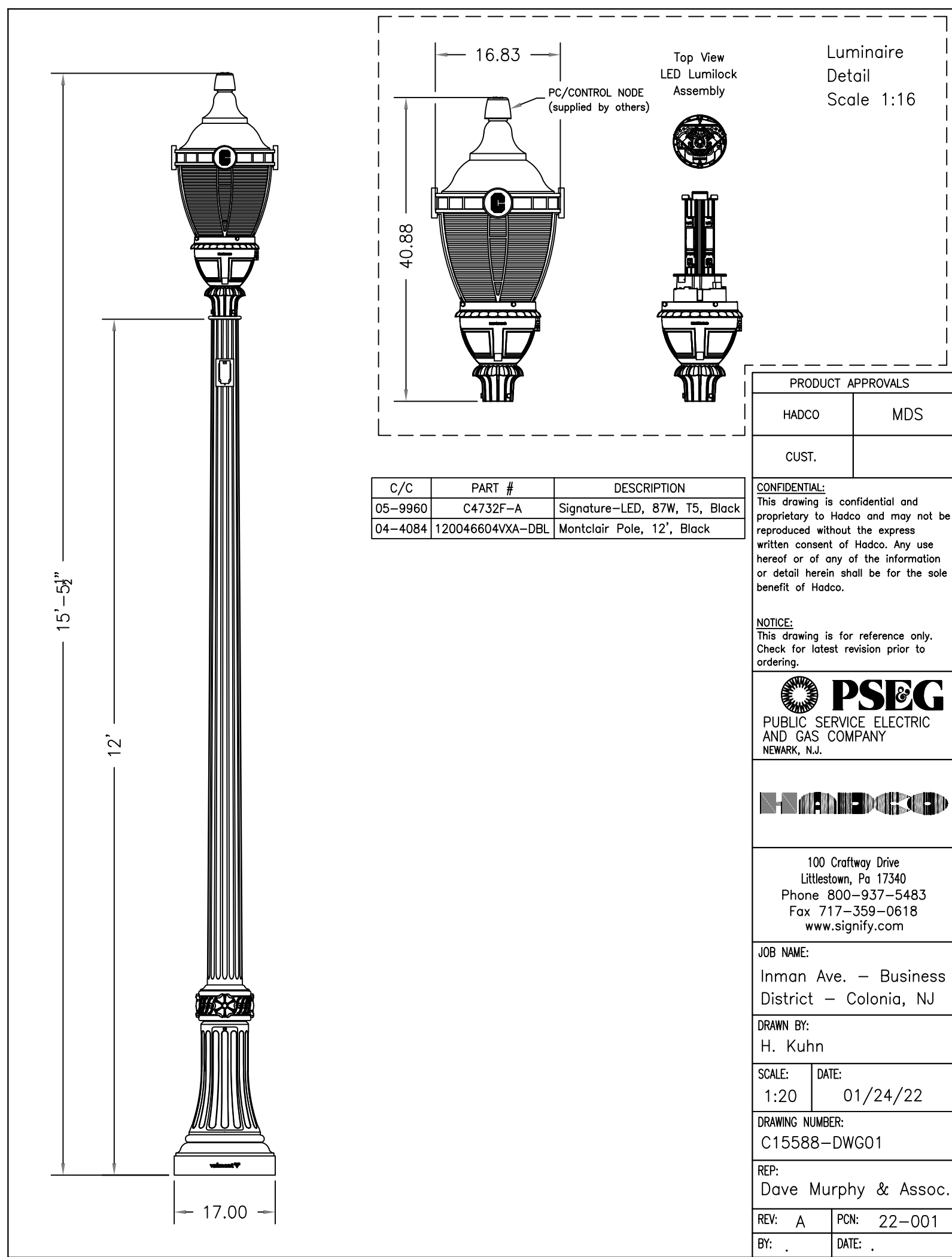


L-4  
L-4

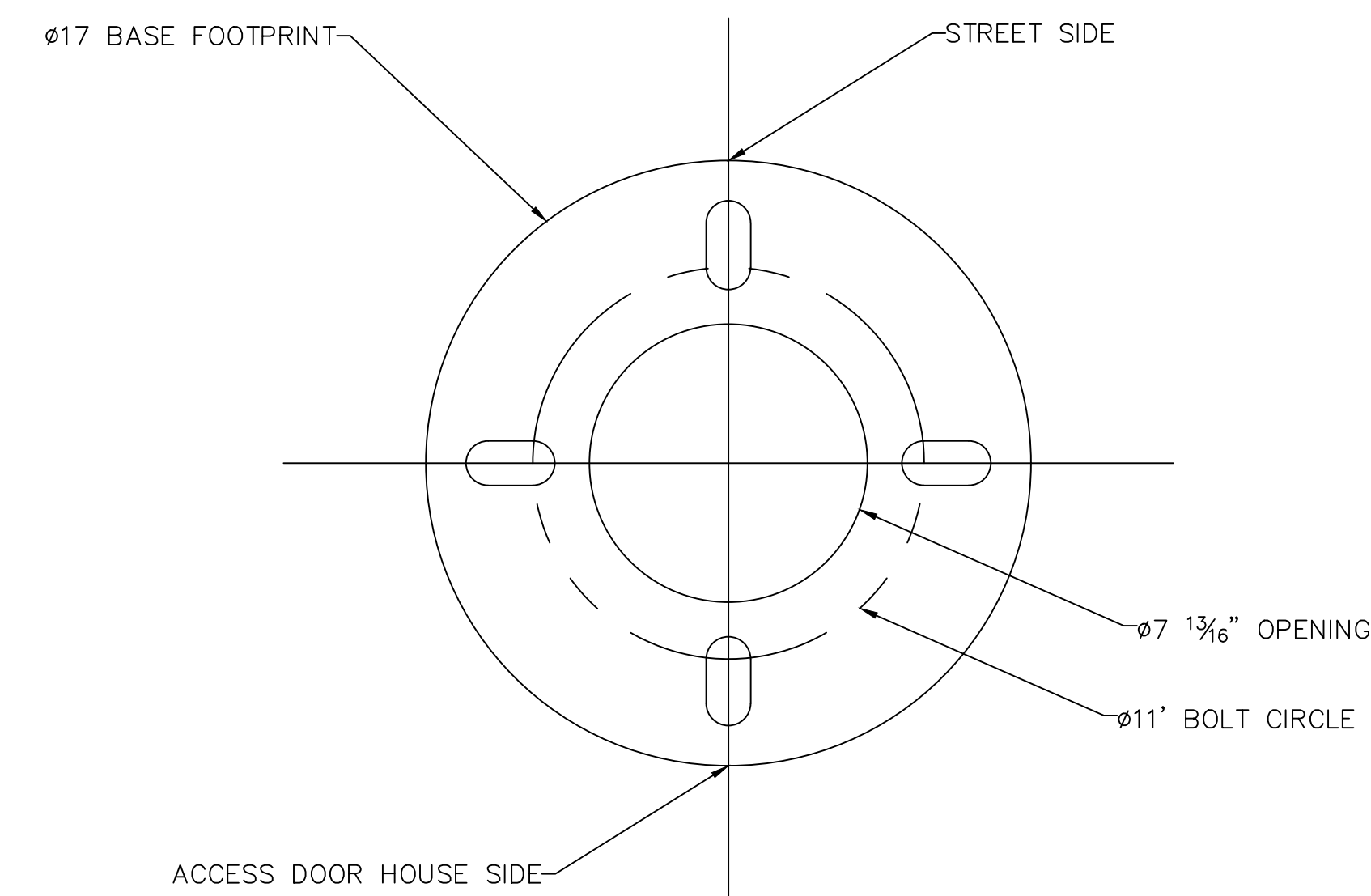
<p><b>RICHARD A. ALAIMO ENGINEERING COMPANY</b> Consulting Engineers NJDCA 24GA27988000 200 HIGH STREET 2 MARKET STREET MOUNT HOLLY, N.J. PATERSON, N.J.</p>	<p>Woodbridge Township Division of Engineering 1 Main Street, Woodbridge, NJ 07095</p>	
	<p>LIGHTING IMPROVEMENTS TO INMAN AVENUE (C.R. 602) FROM JORDAN ROAD TO WEST STREET TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY</p>	
<p><b>Richard A. Alaimo - P.E.</b> N.J. PROFESSIONAL ENGINEER LICENSE NO. 13195</p>		
<p><b>STREET LIGHTING PLAN</b></p>		
<p>Designed By</p>	<p>Drawn By</p>	<p>Scale: 1" = 30'</p>
<p>Checked By</p>	<p>Dept. Head</p>	<p>Sheet No. 5 of 16 Date: MARCH 2022</p>
<p>RAA PROJECT NO. MH-21-124</p>		
<p><b>Michael Gelin, P.E.</b> Woodbridge Township Engineer</p>		

Plotted: 3/4/2022 3:42 PM Last saved: 3/4/2022 3:36 PM File Name: K:\Projects\B01450073000\2021-12-cad-in Lighting Plan\CAD files\GELIN - Lighting Plan Updated.dwg

Plotted: 3/4/2022 2:12 PM Last saved: 3/4/2022 1:34 PM File Name: K:\Projects\B01450073000\2021-12-gelin Lighting Plan\CAD files\GELIN - Lighting Pole Details.dwg

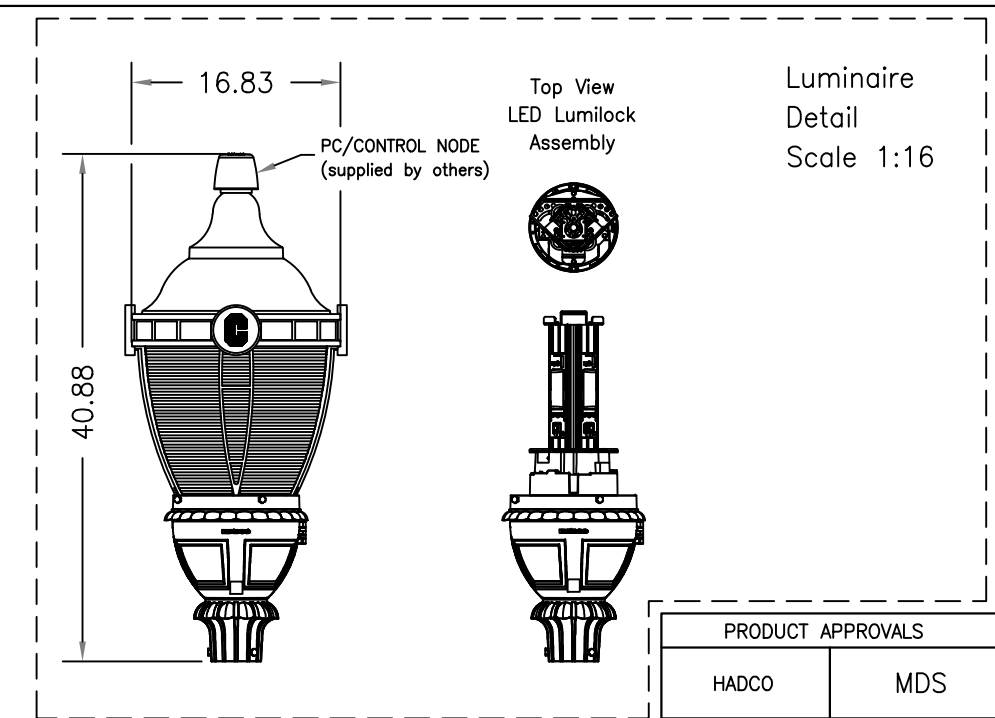


**LIGHT POLE DETAIL**  
N.T.S



**POLE - BOLT PATTERN**  
N.T.S

- NOTES:
1. BOLT HOLE PATTERN IS SHOWN FOR INFORMATION ONLY.
  2. BOLT HOLE PATTERN TO BE DETERMINED BY THE MANUFACTURER.
  3. COORDINATION WITH PSE&G OF ALL DESIGN DETAIL SHALL OCCUR PRIOR TO PROCUREMENT OF ANY MATERIALS.



**Luminaire Detail**  
Scale 1:16

PRODUCT APPROVALS	
HADCO	MDS
CUST.	

C/C	PART #	DESCRIPTION
05-9960	C4732F-A	Signature-LED, 87W, TS, Black
04-4084	120046604VXA-DBL	Montclair Pole, 12', Black

**CONFIDENTIAL**  
This drawing is confidential and proprietary to Hodo and may not be reproduced without the express written consent of Hodo. Any use hereof or of any of the information or detail herein shall be for the sole benefit of Hodo.

**NOTICE:**  
This drawing is for reference only. Check for latest revision prior to ordering.



100 Craftway Drive  
Littleton, Pa 17340  
Phone 800-937-5483  
Fax 717-359-0618  
www.signify.com

**JOB NAME:**  
Inman Ave. - Business District - Colonia, NJ

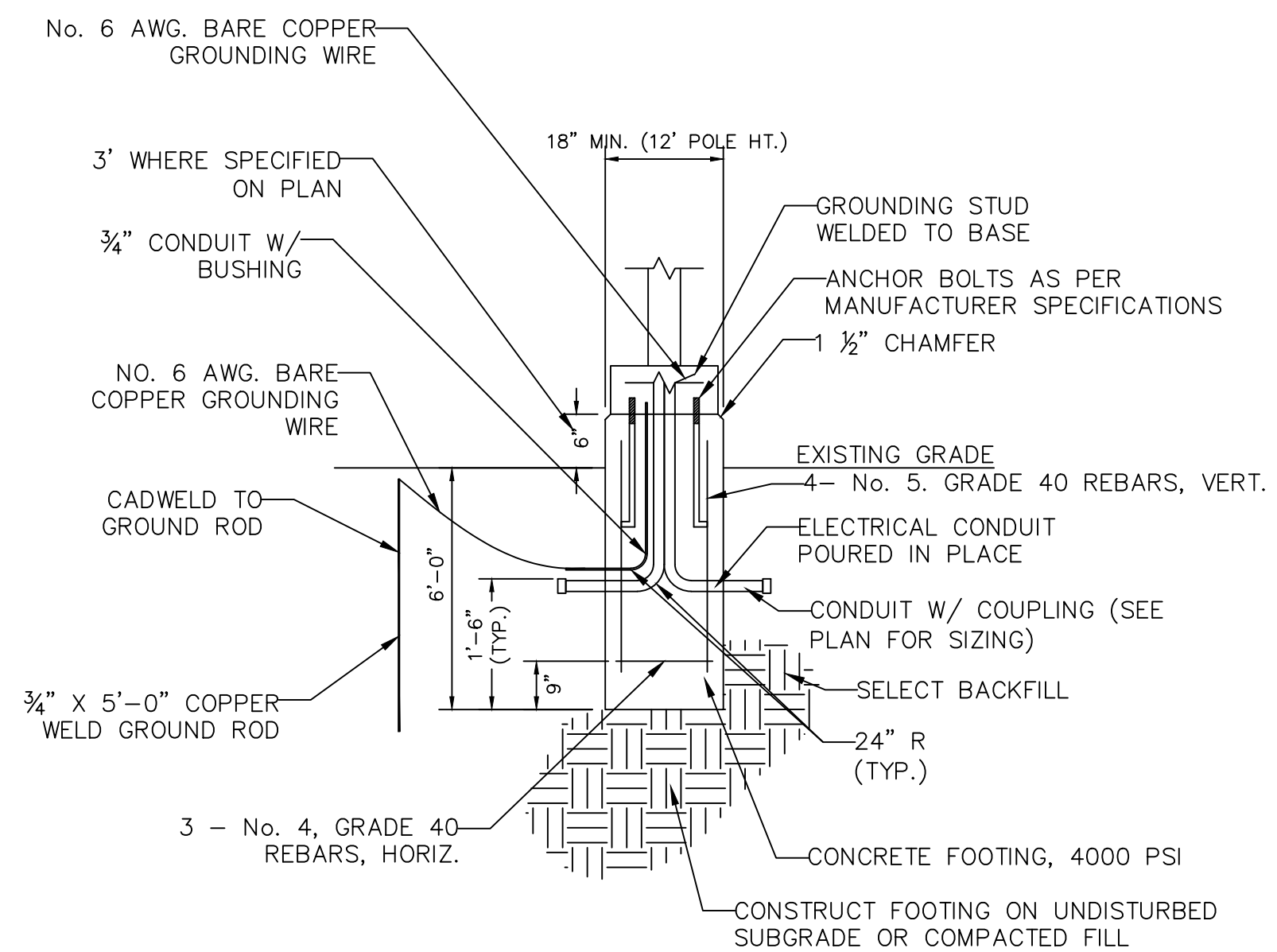
**DRAWN BY:**  
H. Kuhn

**SCALE:** 1:20  
**DATE:** 01/24/22

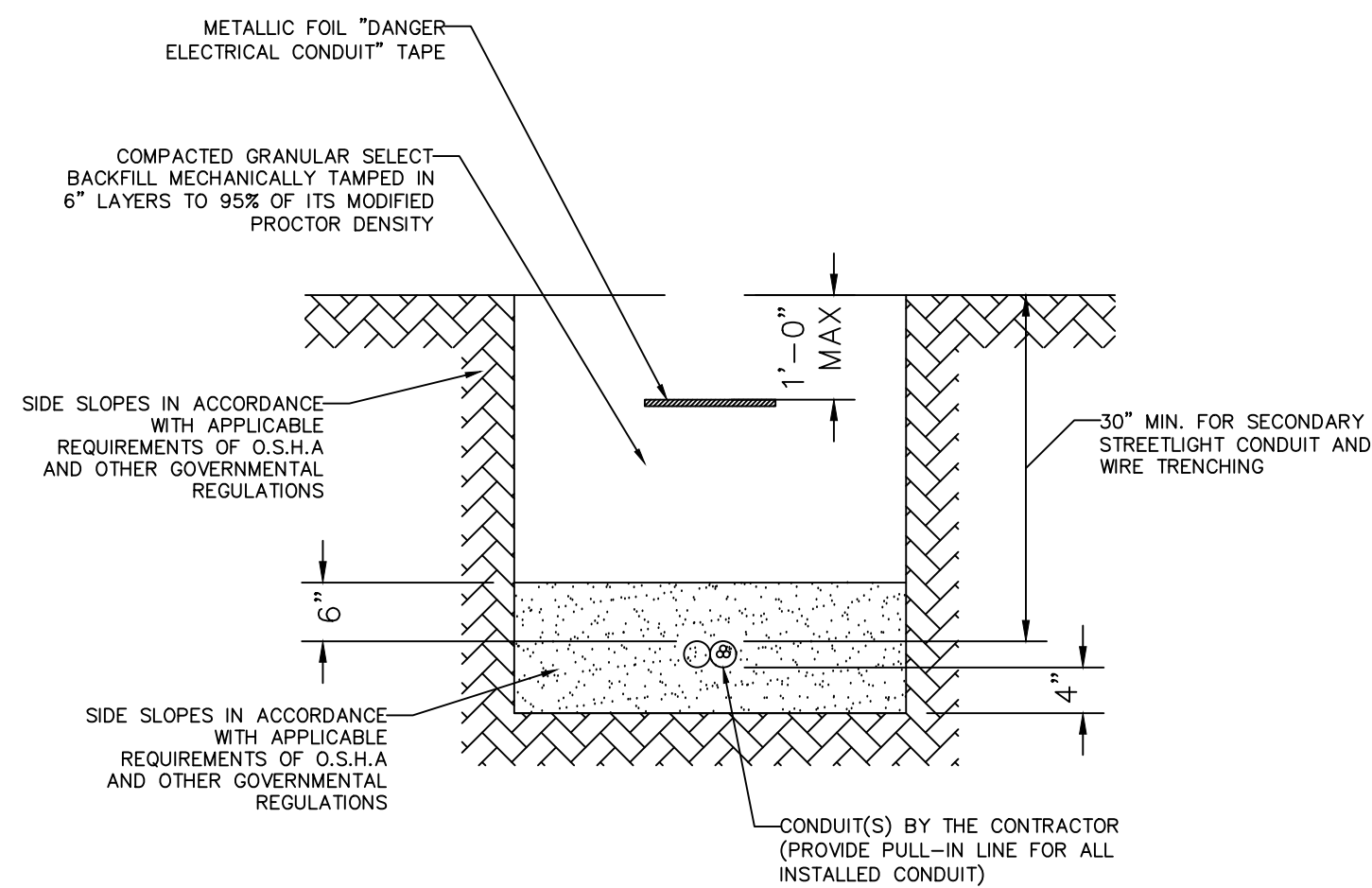
**DRAWING NUMBER:**  
C15588-DWG01

**REP:**  
Dave Murphy & Assoc.

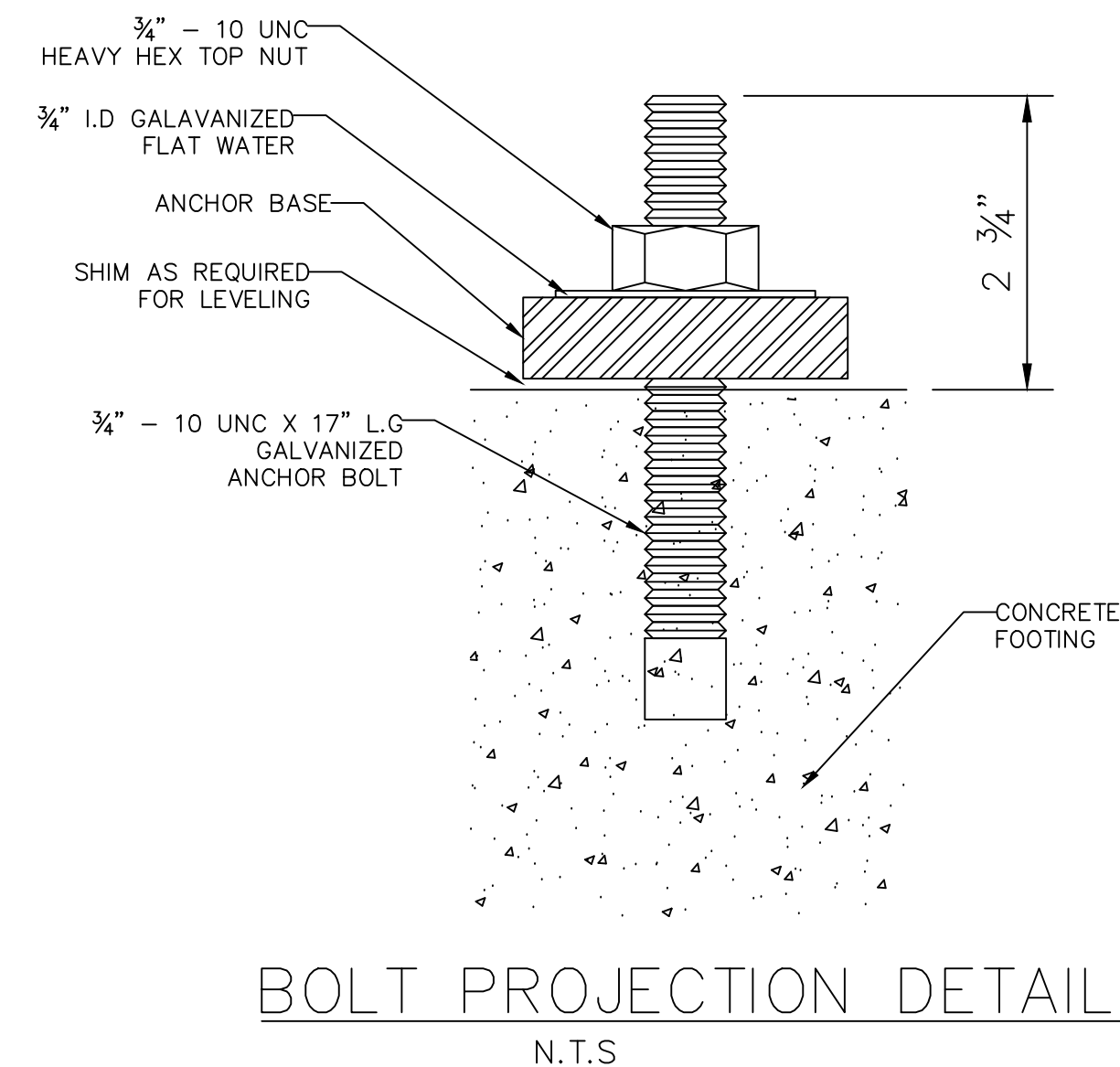
**REV:** A **PCN:** 22-001  
**BY:** **DATE:**



**TYPICAL LIGHT POLE FOUNDATION DETAIL**  
N.T.S



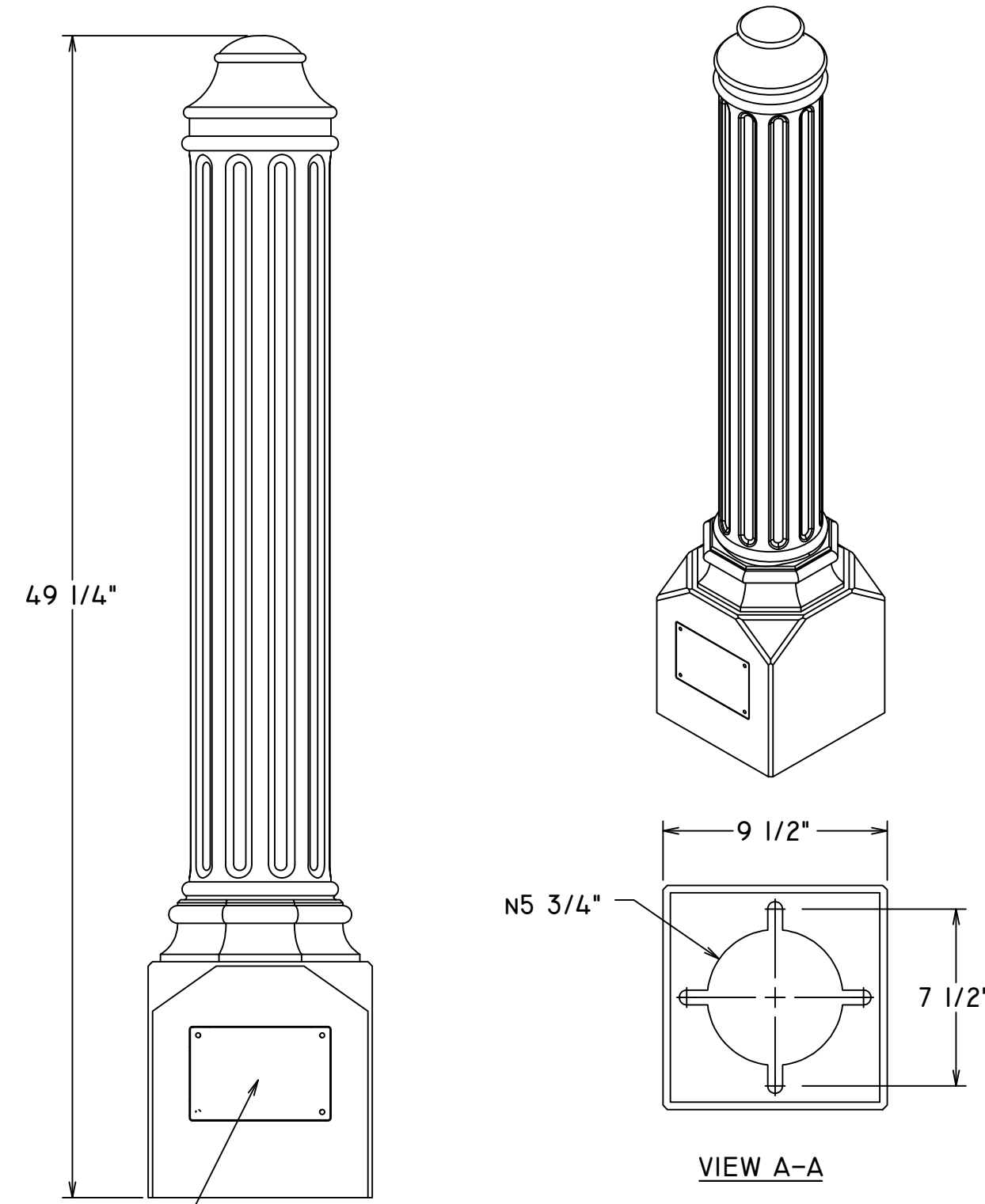
**TYPICAL TRENCHING DETAIL**  
N.T.S



**BOLT PROJECTION DETAIL**  
N.T.S

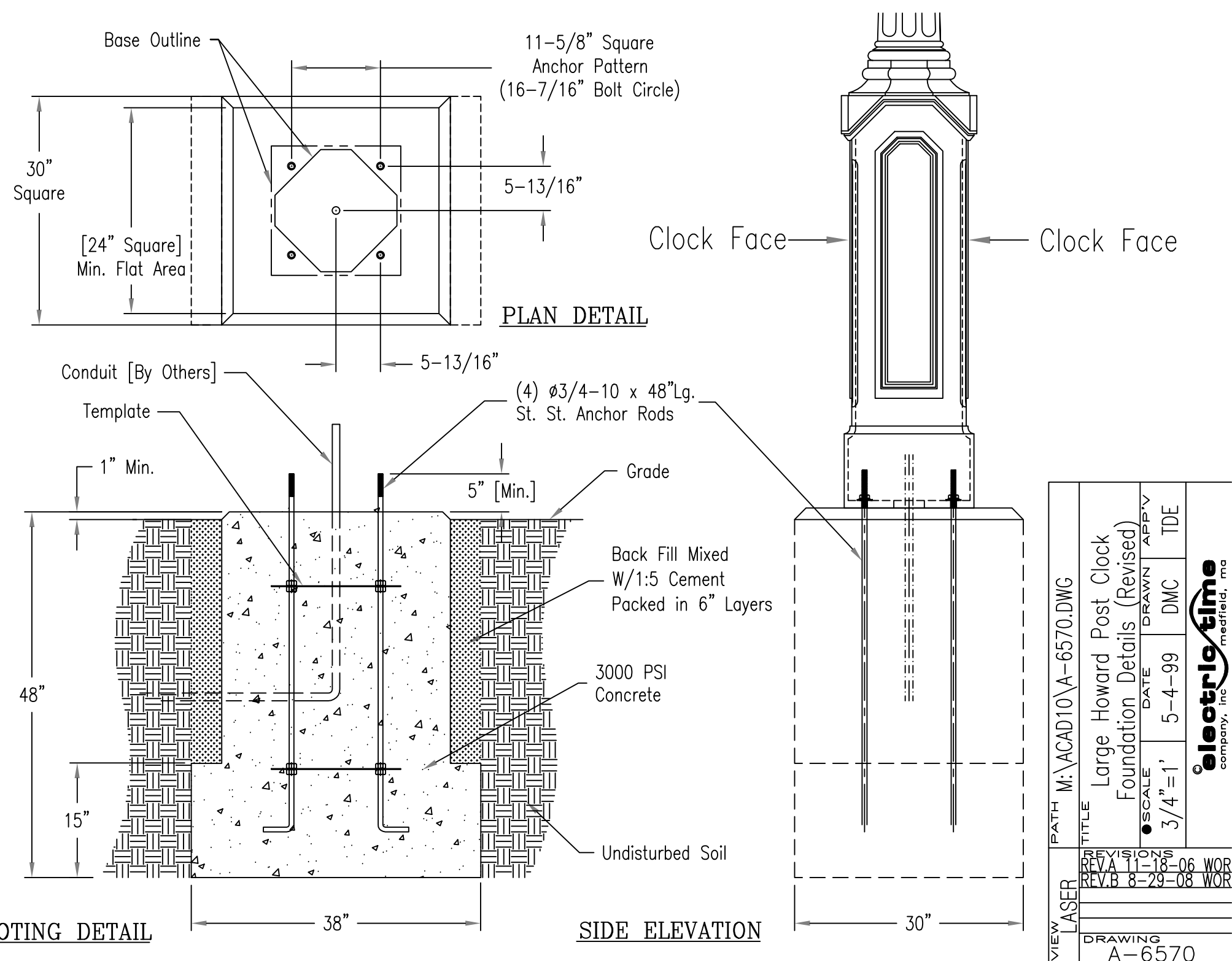
D-1  
D-3

<p><b>RICHARD A. ALAIMO ENGINEERING COMPANY</b> Consulting Engineers NJCA 24GA2798800</p> <p>200 HIGH STREET MOUNT HOLLY, N.J. 2 MARKET STREET PATERSON, N.J.</p>	<p>Woodbridge Township Division of Engineering 1 Main Street, Woodbridge, NJ 07095</p>	
	<p>LIGHTING IMPROVEMENTS TO INMAN AVENUE (C.R. 602) FROM JORDAN ROAD TO WEST STREET TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY</p>	
<p><b>LIGHT POLE DETAIL SHEET</b></p>		
<p>Richard A. Alaimo - P.E. N.J. PROFESSIONAL ENGINEER LICENSE NO. 13195</p>	<p>Designed By</p>	<p>Drawn By</p>
<p>RAA PROJECT NO. MH-21-124</p>	<p>Checked By</p>	<p>Dept. Head</p>
<p>Scale: N.T.S</p>		<p>Sheet No. 6 of 16 Date: MARCH 2022</p>
<p>Michael Gelin, P.E. Woodbridge Township Engineer</p>		



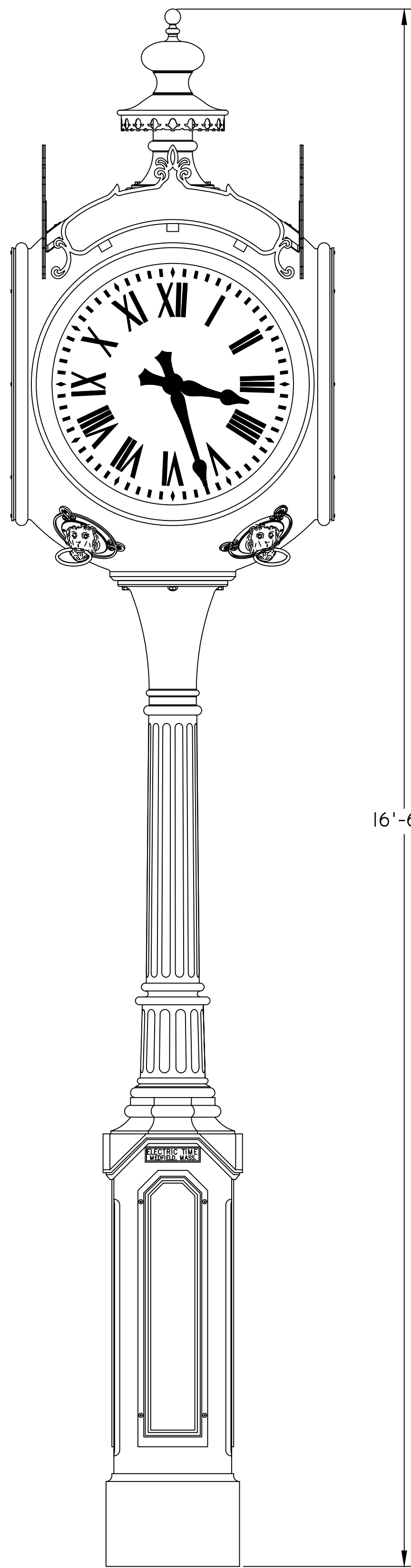
DATE: 6/26/2006	electric time company, inc.	THIS DRAWING IS THE PROPERTY OF electric time company, inc. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. NO REUSE OR REPRODUCTION OF THIS DRAWING IS PERMITTED WITHOUT THE WRITTEN PERMISSION OF electric time company, inc.
DRAWN BY: DMC	TITLE: Cast Bollard Detail	
CHECKED BY: [Signature]	SUBJECT: ETC Bollard (Howard Design)	
DWG NO: A-10453-1	SHEET OF: 2	2
PATH: M:\INVENTOR\DRAWINGS\B-10453.IDW		

CAST BOLLARD DETAIL  
N.T.S.

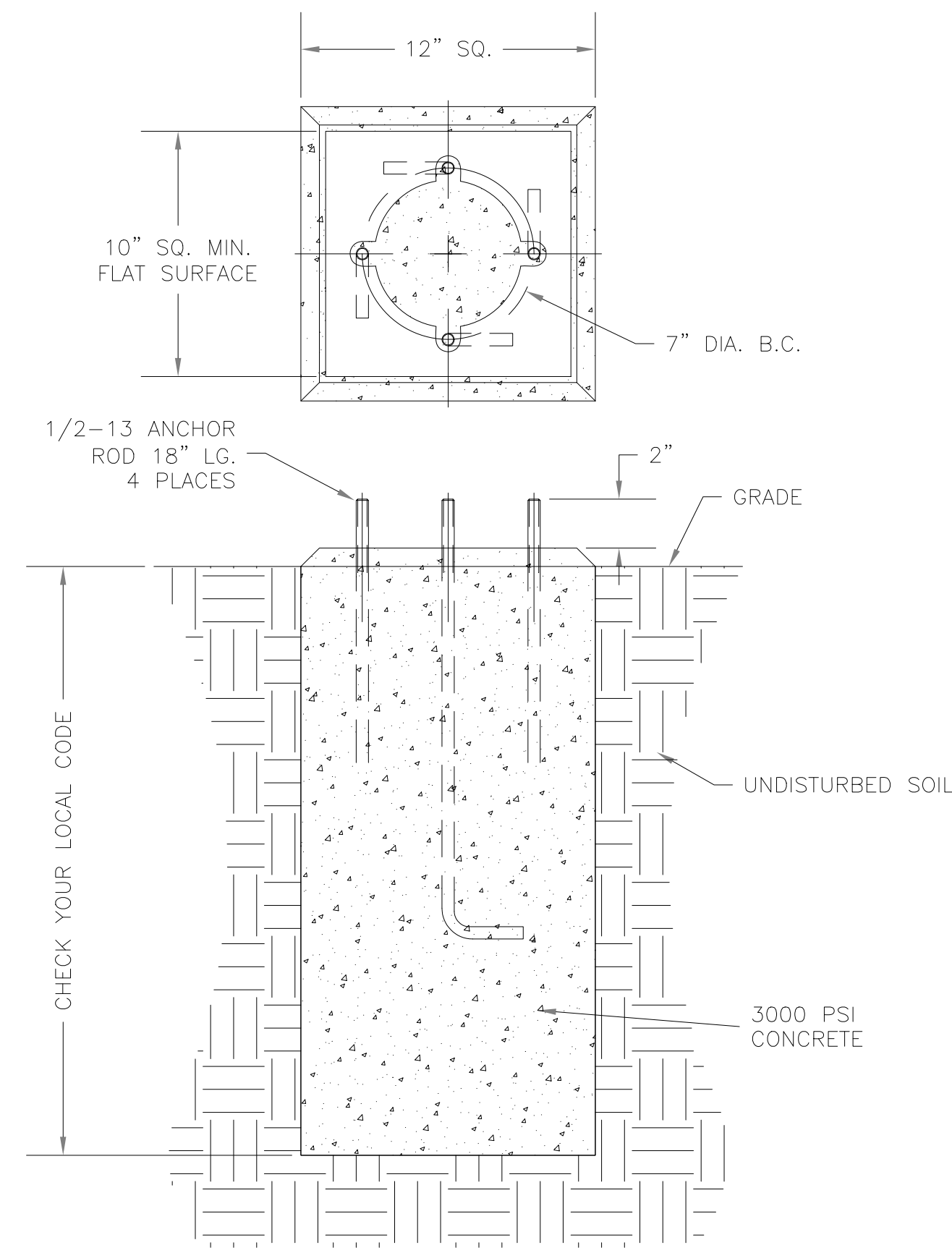


DATE: 11/18/06	electric time company, inc.	THIS DRAWING IS THE PROPERTY OF electric time company, inc. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. NO REUSE OR REPRODUCTION OF THIS DRAWING IS PERMITTED WITHOUT THE WRITTEN PERMISSION OF electric time company, inc.
DRAWN BY: WOR	TITLE: Large Howard Post Clock Foundation Details (Revised)	
CHECKED BY: [Signature]	SUBJECT: Large Howard Post Clock Foundation Details (Revised)	
DWG NO: A-6570	SHEET OF: 1	1
PATH: M:\ACAD\10\A-6570.DWG		

LARGE HOWARD POST CLOCK FOUNDATION DETAILS (REVISED)  
N.T.S.

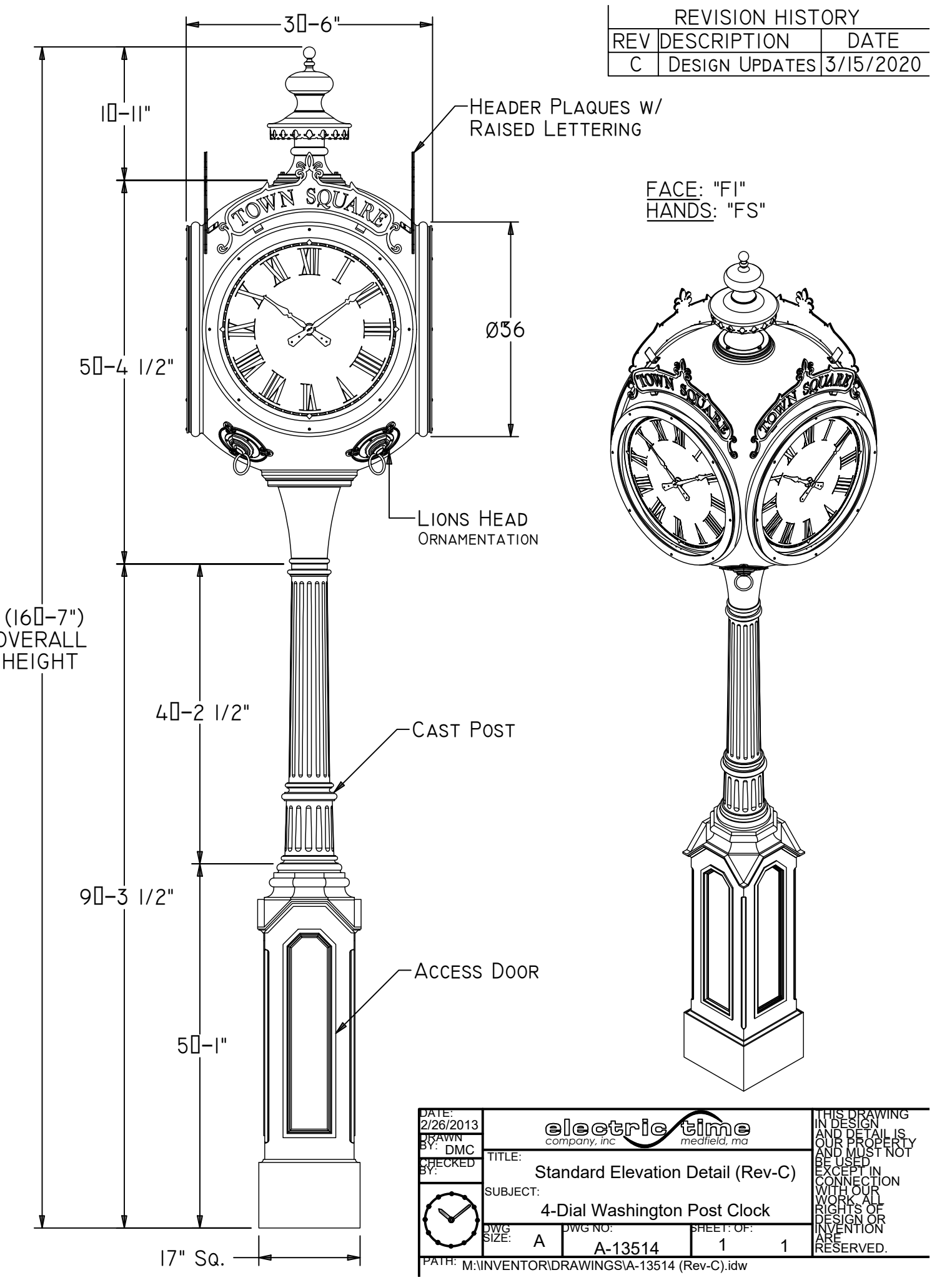


CLOCK ELEVATION  
N.T.S.



DATE: 5-15-98	electric time company, inc.	THIS DRAWING IS THE PROPERTY OF electric time company, inc. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. NO REUSE OR REPRODUCTION OF THIS DRAWING IS PERMITTED WITHOUT THE WRITTEN PERMISSION OF electric time company, inc.
DRAWN BY: WOR	TITLE: Foundation Detail ETC Bollard - Howard Design	
CHECKED BY: [Signature]	SUBJECT: ETC Bollard - Howard Design	
DWG NO: A-13514	SHEET OF: 1	1
PATH: M:\INVENTOR\DRAWINGS\A-13514 (Rev-C).dwg		

FOUNDATION DETAIL  
ETC BOLLARD - HOWARD DESIGN  
N.T.S.



DATE: 2/28/2013	electric time company, inc.	THIS DRAWING IS THE PROPERTY OF electric time company, inc. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. NO REUSE OR REPRODUCTION OF THIS DRAWING IS PERMITTED WITHOUT THE WRITTEN PERMISSION OF electric time company, inc.
DRAWN BY: WOR	TITLE: Standard Elevation Detail (Rev-C)	
CHECKED BY: [Signature]	SUBJECT: Standard Elevation Detail (Rev-C)	
DWG NO: A-13514	SHEET OF: 1	1
PATH: M:\INVENTOR\DRAWINGS\A-13514 (Rev-C).dwg		

STANDARD ELEVATION DETAIL (REV-C) 4-DIAL WASHINGTON POST CLOCK  
N.T.S.

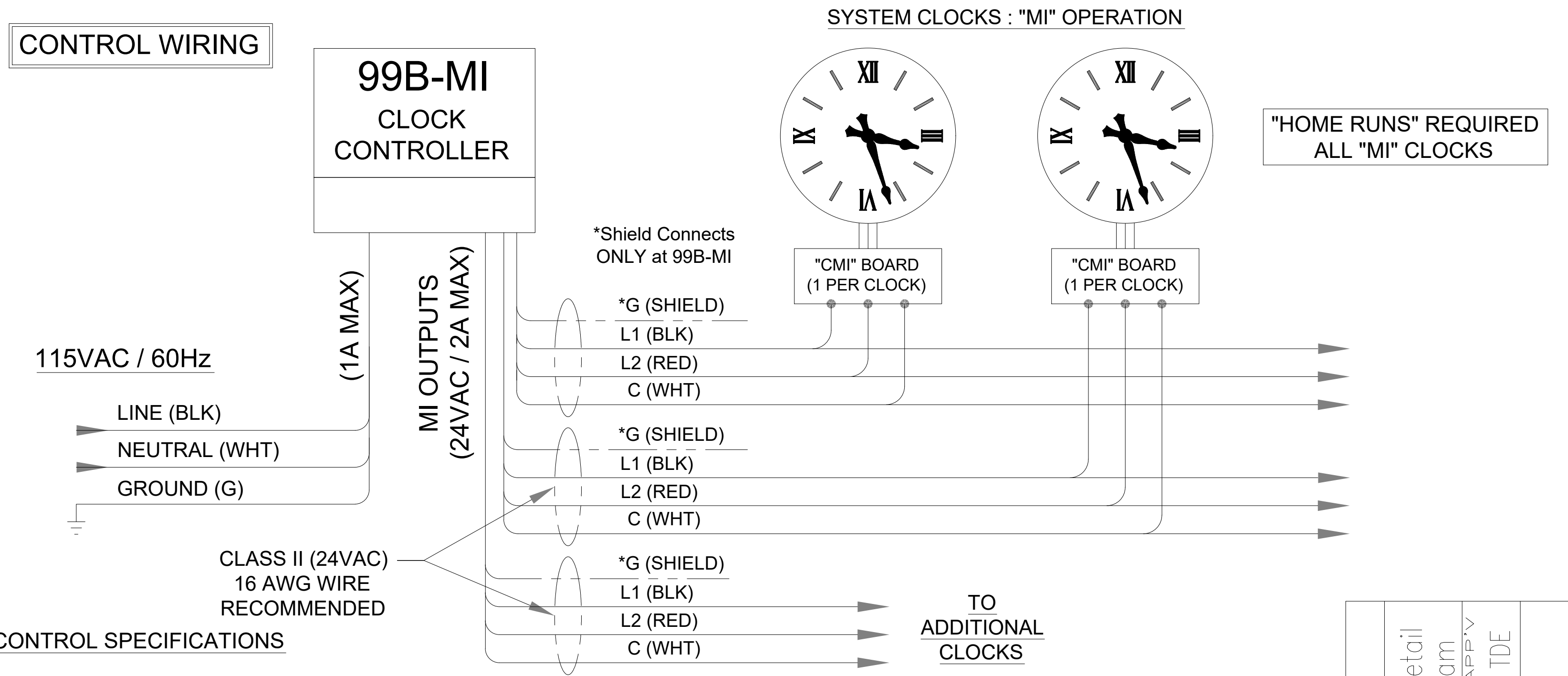
REVISION HISTORY		
REV	DESCRIPTION	DATE
C	DESIGN UPDATES	3/15/2020

FACE: "F1"  
HANDS: "FS"

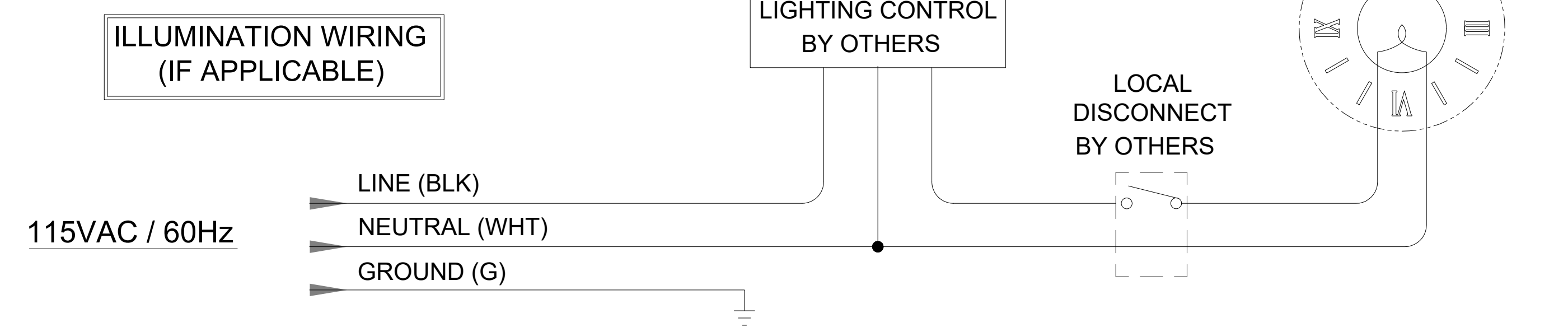
Plotted: 3/4/2022 2:12 PM. Last saved: 3/4/2022 1:34 PM. File Name: K:\Projects\B01450075000\2021-12-gelin Lighting Plan\CAD files\GELIN - Lighting Pole Details.dwg

<p><b>RICHARD A. ALAIMO ENGINEERING COMPANY</b> Consulting Engineers NJCA 24GA2798800</p> <p>200 HIGH STREET 2 MARKET STREET MOUNT HOLLY, N.J. PATERSON, N.J.</p>	<p>Woodbridge Township Division of Engineering 1 Main Street, Woodbridge, NJ 07095</p>	
	<p>LIGHTING IMPROVEMENTS TO INMAN AVENUE (C.R. 602) FROM JORDAN ROAD TO WEST STREET TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY</p>	
<p><b>CLOCK DETAIL SHEET</b></p>		
<p>Richard A. Alaimo - P.E. N.J. PROFESSIONAL ENGINEER LICENSE NO. 13195</p>	<p>Designed By: [Signature] Checked By: [Signature]</p>	<p>Scale: N.T.S. Sheet No. 7 of 16 Date: MARCH 2022</p>
<p>RAA PROJECT NO. MH-21-124</p>	<p style="text-align: right;"><b>Michael Gelin, P.E.</b> Woodbridge Township Engineer</p>	

Plotted: 3/4/2022 2:12 PM Last saved: 3/4/2022 1:34 PM File Name: K:\Projects\B01450073000\2021-12-gelin Lighting Plan\CAD files\GELIN - Lighting Pole Details.dwg



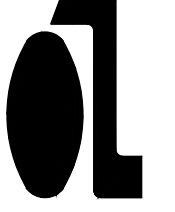
- CONTROL SPECIFICATIONS**
- 1) CONTROLS UP TO (4) "MI" CLOCKS
  - 2) MAX CONTROL WIRE RUN 350'
  - 3) "HOME RUNS" REQUIRED FROM EACH CLOCK
  - 4) DEDICATED 115VAC BRANCH CIRCUIT MUST BE PROVIDED FOR 99B-MI CONTROLLER
  - 5) CONNECTIONS FOR 1/2" CONDUIT PROVIDED

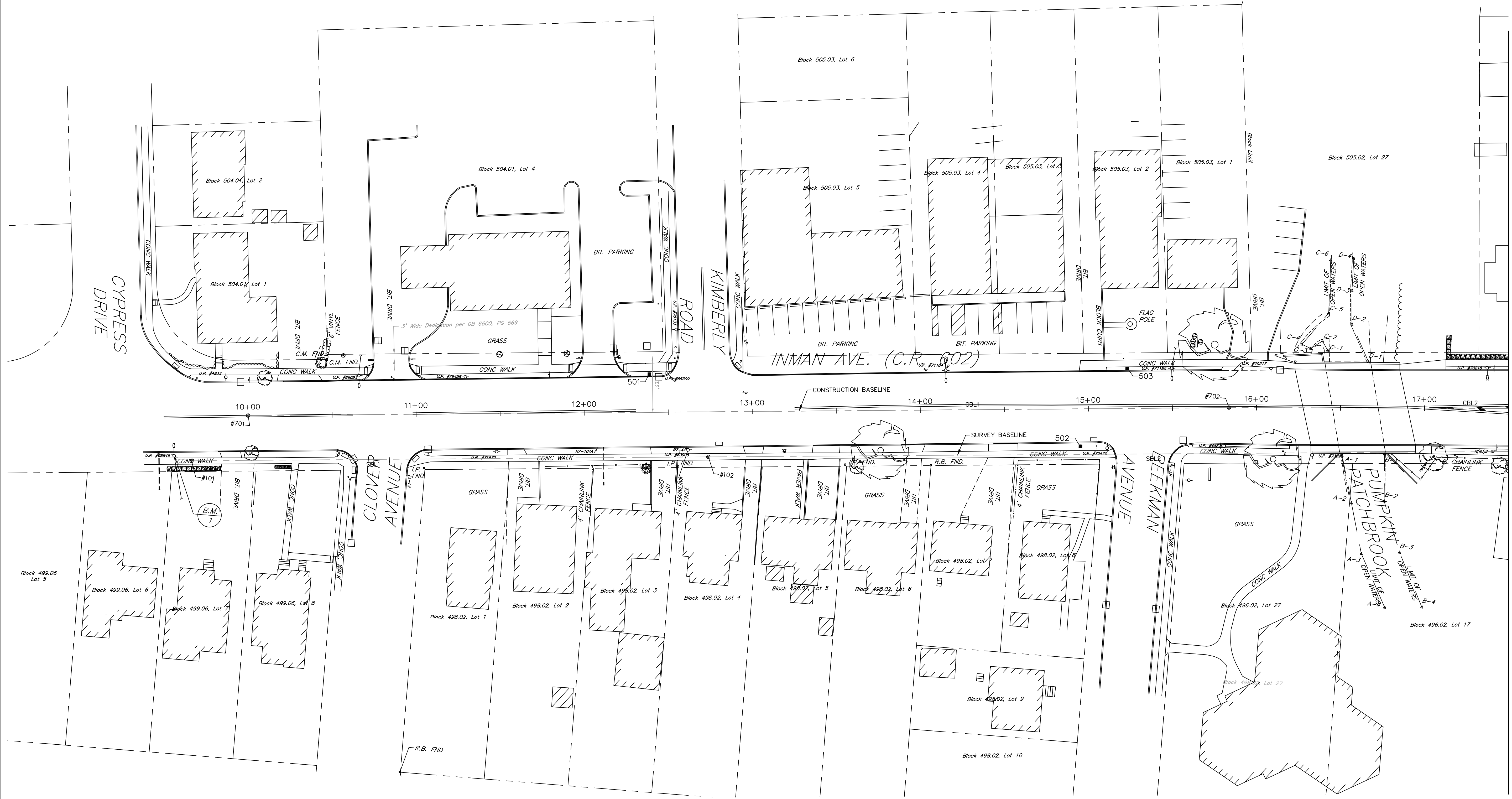


**CLOCK INSTALLATION WIRING DETAIL  
 CONTROL & ILLUMINATION DIAGRAM**  
 N.T.S.

VIEW: LASER	PATH: M:\ACAD10\A-14425.DWG
TITLE: Clock Installation Wiring Detail Control & Illumination Diagram	SCALE: NONE
DATE: 06-24-15	DRAWN: DMC
APP'Y: TDE	
	
REVISIONS _____ _____ _____	
DRAWING A-14425	

D-3  
D-3

 <b>RICHARD A. ALAIMO          ENGINEERING COMPANY</b> Consulting Engineers NJDCA 24GA2798800 200 HIGH STREET MOUNT HOLLY, N.J. 2 MARKET STREET PATERSON, N.J.	Woodbridge Township Division of Engineering 1 Main Street, Woodbridge, NJ 07095
	LIGHTING IMPROVEMENTS TO INMAN AVENUE (C.R. 602) FROM JORDAN ROAD TO WEST STREET TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY
Richard A. Alaimo - P.E. N.J. PROFESSIONAL ENGINEER LICENSE NO. 13195	<b>CLOCK DETAIL SHEET</b>
RAA PROJECT NO. MH-21-124	Designed By: _____ Drawn By: _____ Checked By: _____ Dept. Head: _____ Scale: N.T.S. Sheet No. 8 of 16 Date: MARCH 2022 <b>Michael Gelin, P.E.</b> Woodbridge Township Engineer

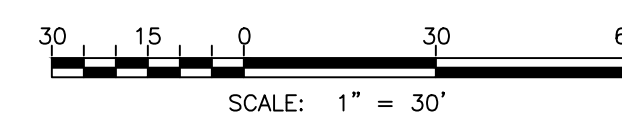


MATCHLINE STA. 17+50

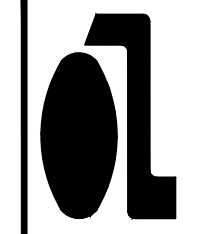
Plotted: 3/4/2022 2:18 PM Last saved: 3/4/2022 1:12 PM File Name: K:\Projects\B01450073000\2021-12-gelin Lighting Plan\CAD files\GELIN -Construction TIES.dwg

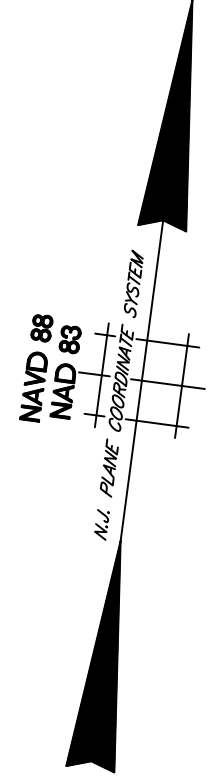
NOTES:  
SEE CONSTRUCTION TIE SHEET TABULATIONS T-8 FOR POINT TABLES

BENCH MARKS  
B.M. #1 - UP #68846WB - P.K. FND. STA. 9+89.63 - 3.12' LT., SURVEY B, ELEVATION = 76.40



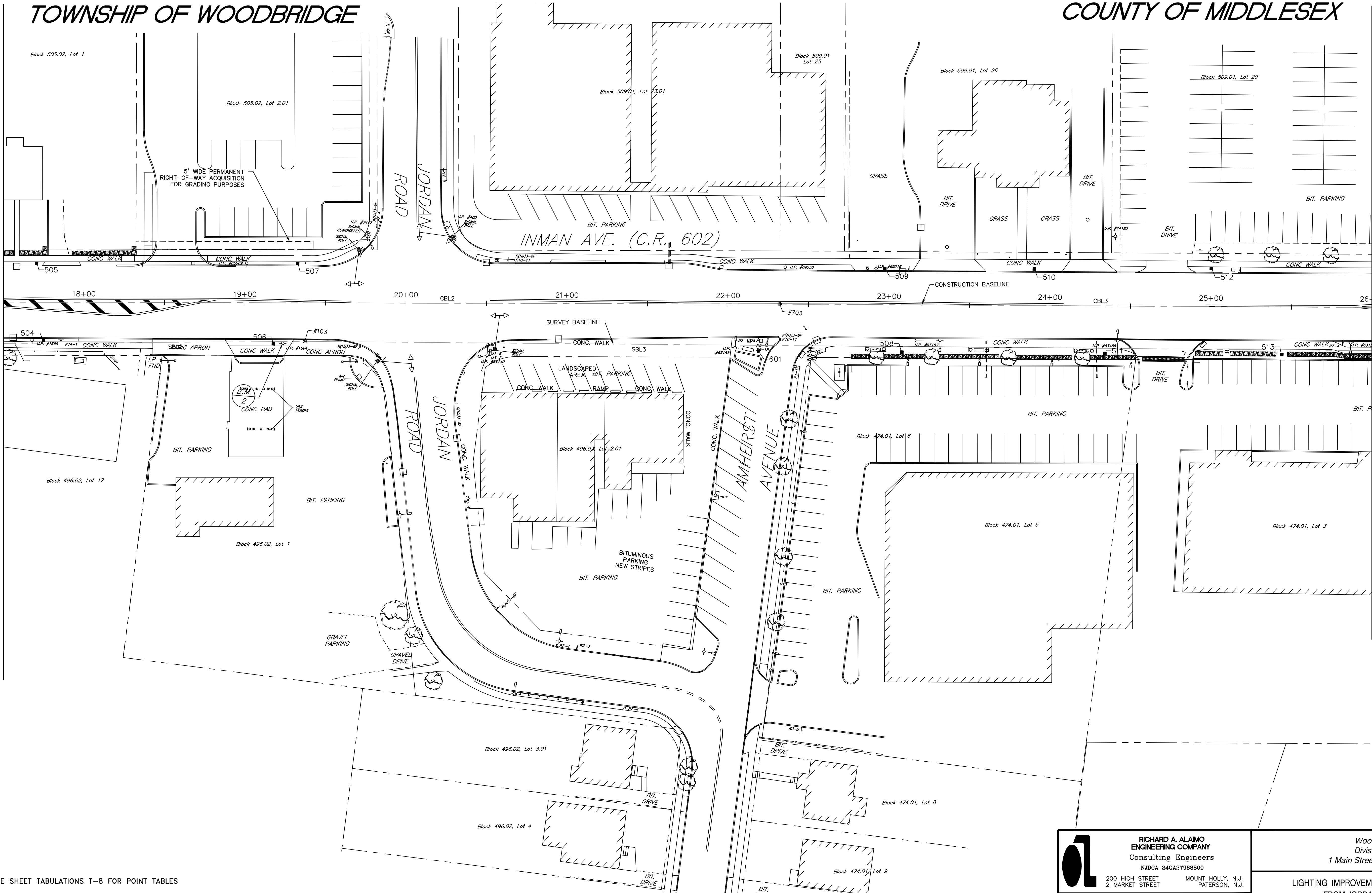
T-1  
T-8

 <b>RICHARD A. ALAIMO ENGINEERING COMPANY</b> Consulting Engineers NJCA 24GA2798800 200 HIGH STREET MOUNT HOLLY, N.J. 2 MARKET STREET PATERSON, N.J.	Woodbridge Township Division of Engineering 1 Main Street, Woodbridge, NJ 07095	
	LIGHTING IMPROVEMENTS TO INMAN AVENUE (C.R. 602) FROM JORDAN ROAD TO WEST STREET TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY	
CONSTRUCTION TIE SHEET		
Richard A. Alaimo - P.E. N.J. PROFESSIONAL ENGINEER LICENSE NO. 13195 RAA PROJECT NO. MH-21-124	Designed By Checked By Drawn By Dept. Head	Scale: 1" = 30' Sheet No. 9 of 16 Date: MARCH 2022 <b>Michael Gelin, P.E.</b> Woodbridge Township Engineer



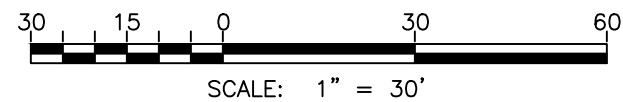
MATCHLINE STA. 17+50

MATCHLINE STA. 26+00



NOTES:  
SEE CONSTRUCTION TIE SHEET TABULATIONS T-8 FOR POINT TABLES

BENCH MARKS  
B.M. #2- UP #BT1664 - P.K. FND. STA. 19+57.13 - 1.14 RT., SURVEY B, ELEVATION = 70.81



Plotted: 3/4/2022 2:18 PM Last saved: 3/4/2022 1:12 PM File Name: K:\Projects\B01450073000\2021-12-gelin Lighting Plan\CAD files\GELIN -Construction TIES.dwg

**Richard A. Alaimo Engineering Company**  
 Consulting Engineers  
 NJDCA 24GA27988000  
 200 HIGH STREET MOUNT HOLLY, N.J.  
 2 MARKET STREET PATERSON, N.J.

*Richard A. Alaimo - P.E.*  
 N.J. PROFESSIONAL ENGINEER  
 LICENSE NO. 13195  
 RAA PROJECT NO.  
 MH-21-124

Woodbridge Township  
 Division of Engineering  
 1 Main Street, Woodbridge, NJ 07095

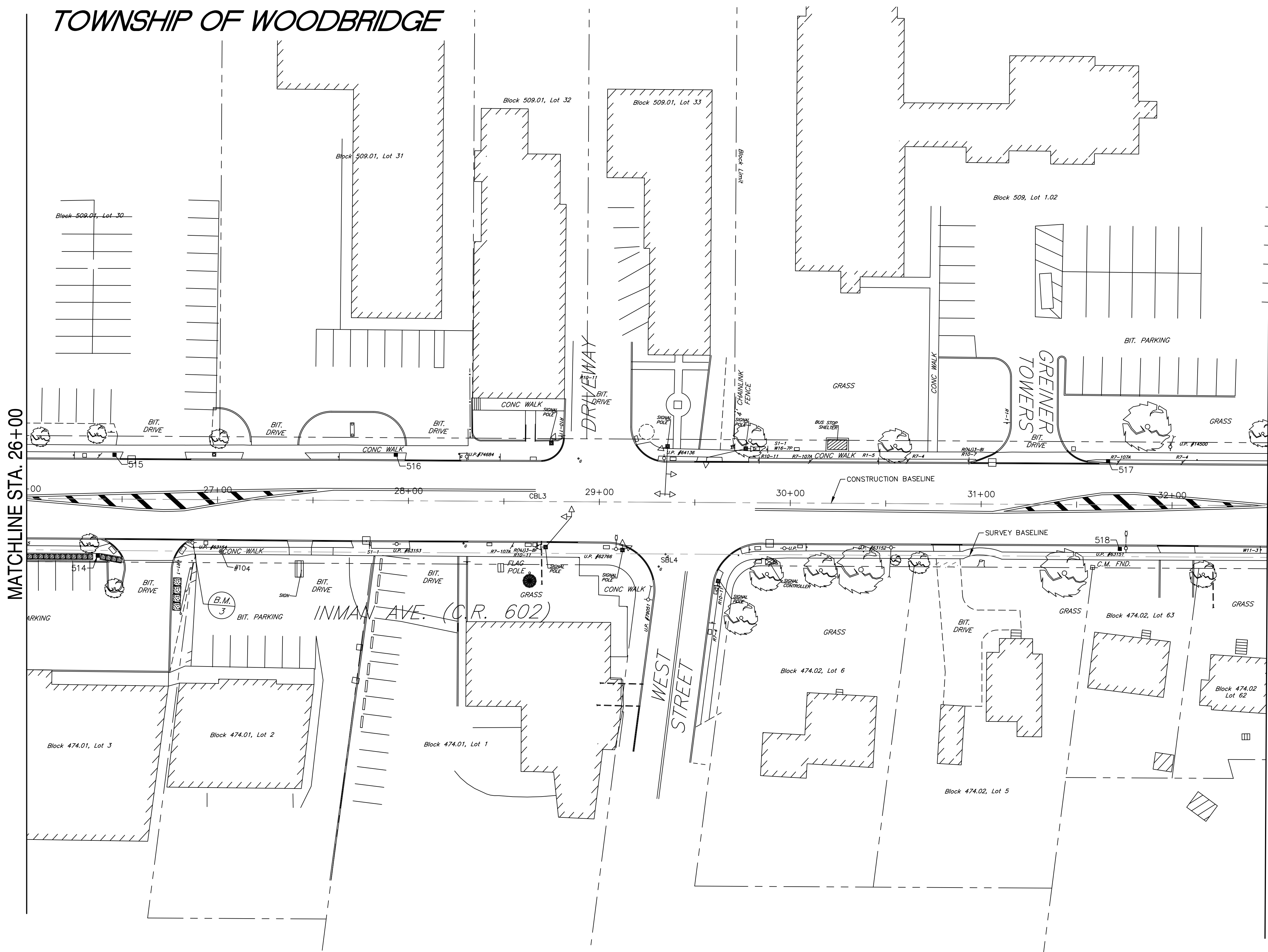
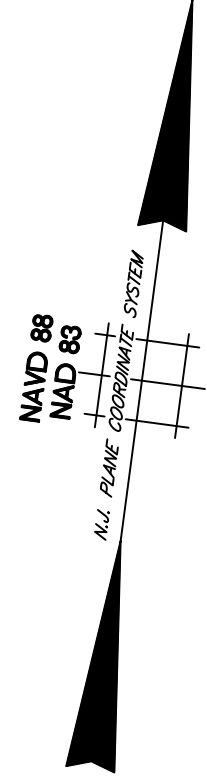
LIGHTING IMPROVEMENTS TO INMAN AVENUE (C.R. 602)  
 FROM JORDAN ROAD TO WEST STREET  
 TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY

CONSTRUCTION TIE SHEET

Designed By JJD	Scale: 1" = 30'
Checked By Dept. Head	Sheet No. 10 of 16
	Date: MARCH 2022

*Michael Gelin, P.E.*  
 Woodbridge Township Engineer

T-2  
T-8



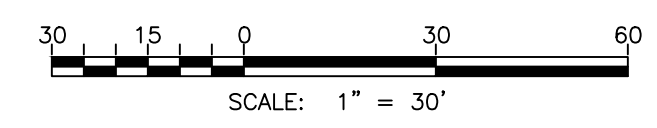
MATCHLINE STA. 26+00

MATCHLINE STA. 32+50

NOTES:

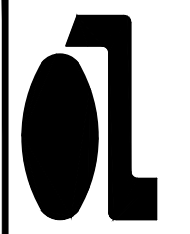
SEE CONSTRUCTION TIE SHEET TABULATIONS T-8 FOR POINT TABLES

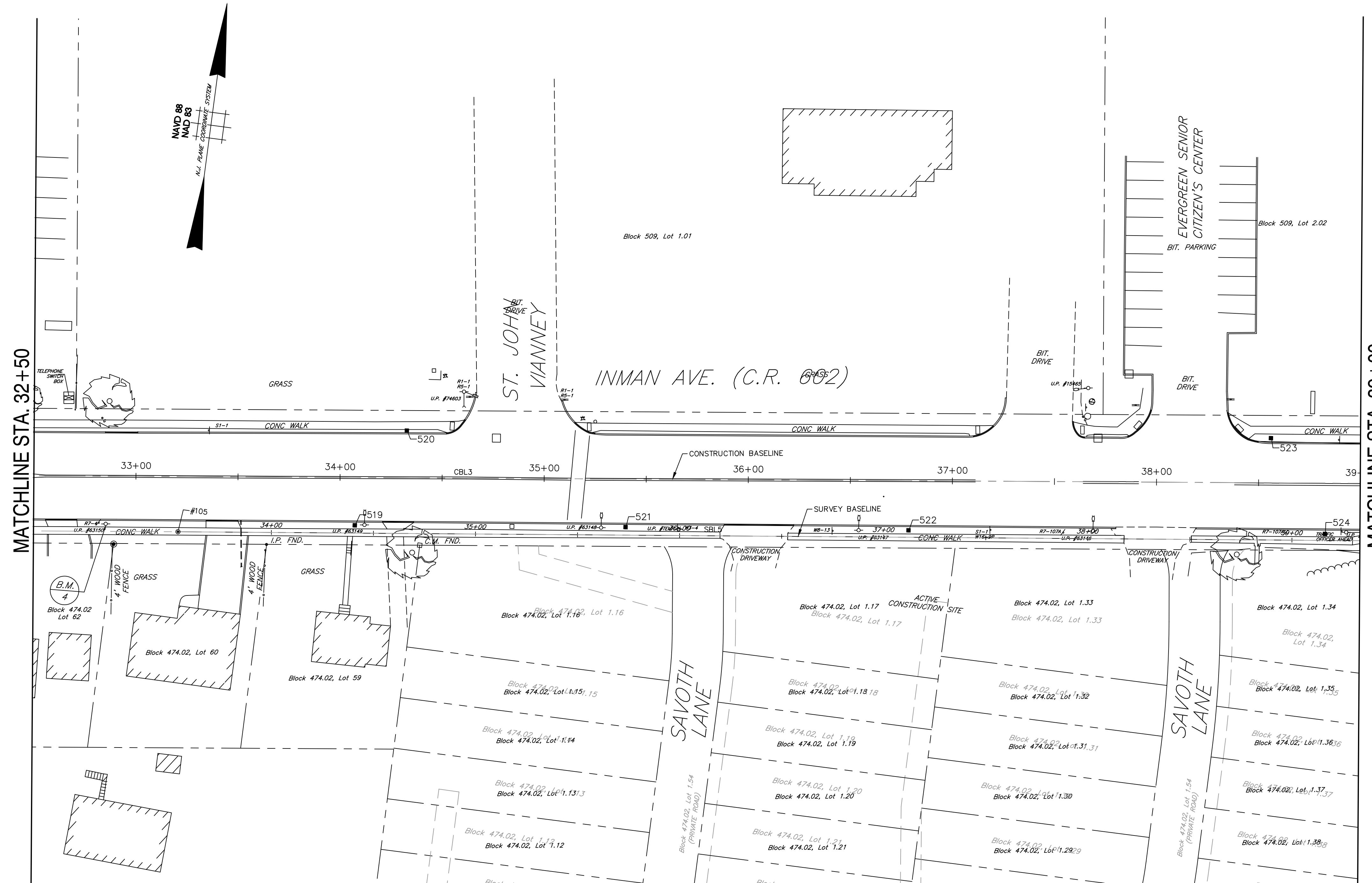
BENCH MARKS  
B.M. #3 - UP #6345 - P.K. FND. STA. 27+20.48 - 4.45' LT., SURVEY B, ELEVATION = 77.38



Plotted: 3/4/2022 2:18 PM Last saved: 3/4/2022 1:12 PM File Name: K:\Projects\B01450075000\2021-12-gelin Lighting Plan\CAD files\GELIN -Construction TIES.dwg

T-3  
T-8

 <p><b>RICHARD A. ALAIMO ENGINEERING COMPANY</b> Consulting Engineers NJPCA 24GA27988800</p> <p>200 HIGH STREET MOUNT HOLLY, N.J. 2 MARKET STREET PATERSON, N.J.</p>	<p>Woodbridge Township Division of Engineering 1 Main Street, Woodbridge, NJ 07095</p>	
	<p>LIGHTING IMPROVEMENTS TO INMAN AVENUE (C.R. 602) FROM JORDAN ROAD TO WEST STREET TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY</p>	
<p>CONSTRUCTION TIE SHEET</p>		
<p>Richard A. Alaimo - P.E. N.J. PROFESSIONAL ENGINEER LICENSE NO. 13195</p>	<p>Designed By Checked By</p>	<p>Drawn By Dept. Head</p>
<p>RAA PROJECT NO. MH-21-124</p>	<p>Scale: 1" = 30' Sheet No. 11 of 16 Date: MARCH 2022</p>	
<p><i>Michael Gelin, P.E.</i> Woodbridge Township Engineer</p>		



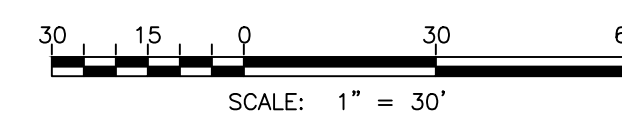
MATCHLINE STA. 32+50

MATCHLINE STA. 39+00

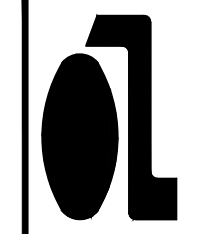
Plotted: 3/4/2022 2:18 PM Last saved: 3/4/2022 1:12 PM File Name: K:\Projects\B01450073000\2021-12-gelin Lighting Plan\CAD files\GELIN -Construction TIES.dwg

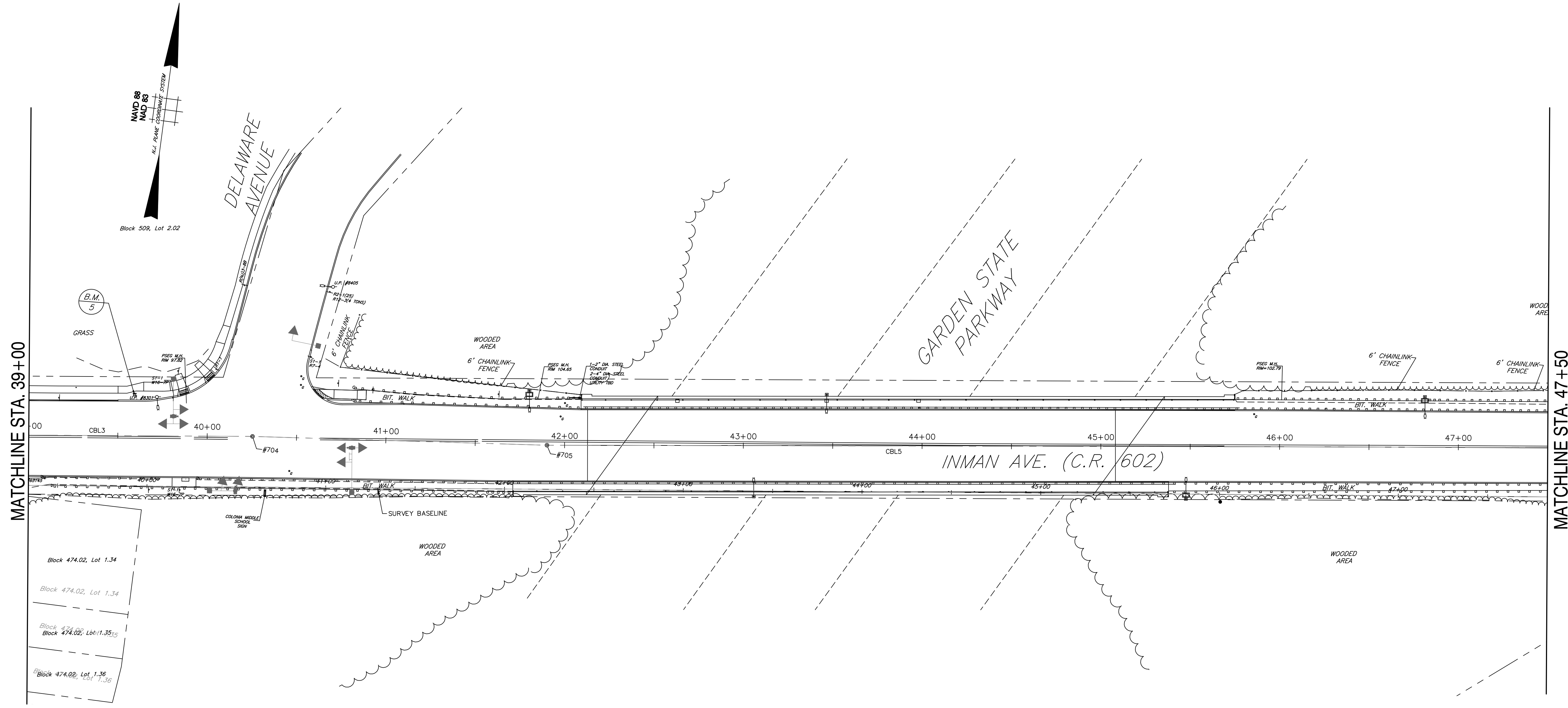
**NOTES:**  
 SEE CONSTRUCTION TIE SHEET TABULATIONS T-8 FOR POINT TABLES

BENCH MARKS  
 B.M. #4 - UP #PS63150WB - P.K. FND. STA. 33+18.84 - 3.64' LT., SURVEY B, ELEVATION = 82.88



T-4  
T-8

 <b>RICHARD A. ALAIMO                  ENGINEERING COMPANY</b> Consulting Engineers NJDCA 24GA2798800 200 HIGH STREET MOUNT HOLLY, N.J. 2 MARKET STREET PATERSON, N.J.	Woodbridge Township Division of Engineering 1 Main Street, Woodbridge, NJ 07095	
	LIGHTING IMPROVEMENTS TO INMAN AVENUE (C.R. 602) FROM JORDAN ROAD TO WEST STREET TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY	
<b>CONSTRUCTION TIE SHEET</b>		
Richard A. Alaimo - P.E. N.J. PROFESSIONAL ENGINEER LICENSE NO. 13195	Designed By Drawn By Checked By Dept. Head	Scale: 1" = 30' Sheet No. 12 of 16 Date: MARCH 2022 <b>Michael Gelin, P.E.</b> Woodbridge Township Engineer
RAA PROJECT NO. MH-21-124		

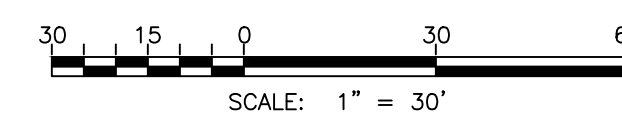


MATCHLINE STA. 39+00

MATCHLINE STA. 47+50

**NOTES:**  
SEE CONSTRUCTION TIE SHEET TABULATIONS T-8 FOR POINT TABLES

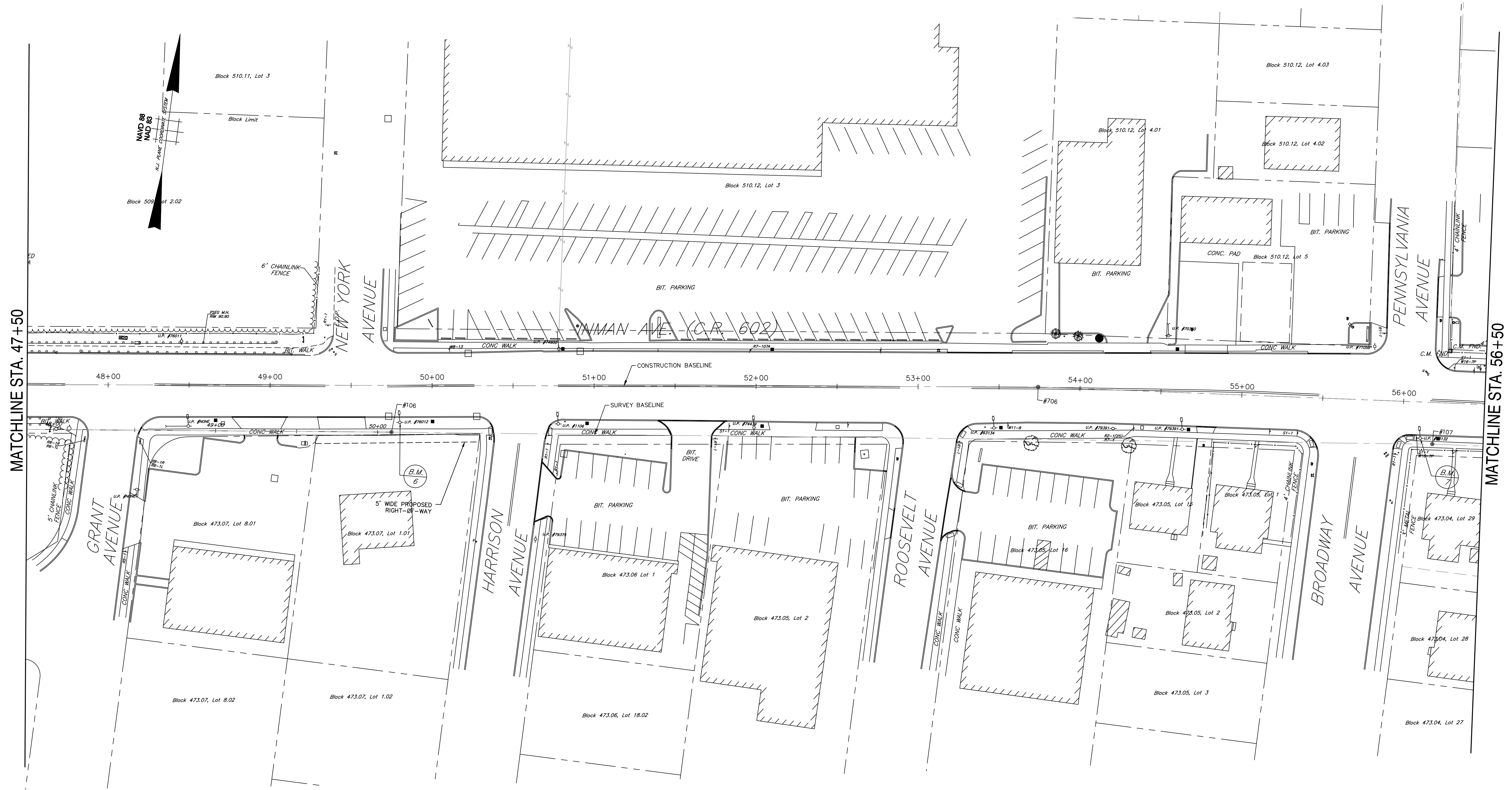
BENCH MARKS  
B.M. #5 - X-CUT F.H. FLANGE BOLT STA. 39+92.80 - 51.04' LT., SURVEY B, ELEVATION = 99.75



Plotted: 3/4/2022 2:18 PM Last saved: 3/4/2022 1:12 PM File Name: K:\Projects\B01450073000\2021-12-gelin Lighting Plan\CAD files\Gelin -Construction TIES.dwg

T-5  
T-8

<p><b>RICHARD A. ALAIMO ENGINEERING COMPANY</b> Consulting Engineers NJCA 24GA27988800 200 HIGH STREET MOUNT HOLLY, N.J. 2 MARKET STREET PATERSON, N.J.</p>	<p>Woodbridge Township Division of Engineering 1 Main Street, Woodbridge, NJ 07095</p>	
	<p>LIGHTING IMPROVEMENTS TO INMAN AVENUE (C.R. 602) FROM JORDAN ROAD TO WEST STREET TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY</p>	
<p>CONSTRUCTION TIE SHEET</p>		
<p>Richard A. Alaimo - P.E. N.J. PROFESSIONAL ENGINEER LICENSE NO. 13195</p>	<p>Designed By Checked By</p>	<p>Drawn By Dept. Head</p>
<p>RAA PROJECT NO. MH-21-124</p>	<p>Scale: 1" = 30' Sheet No. 13 of 16 Date: MARCH 2022</p>	
<p><i>Michael Gelin, P.E.</i> Woodbridge Township Engineer</p>		



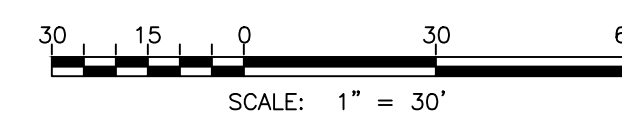
MATCHLINE STA. 47+50

MATCHLINE STA. 56+50

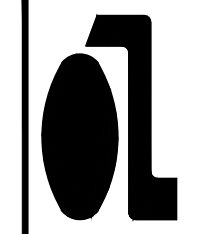
NOTES:

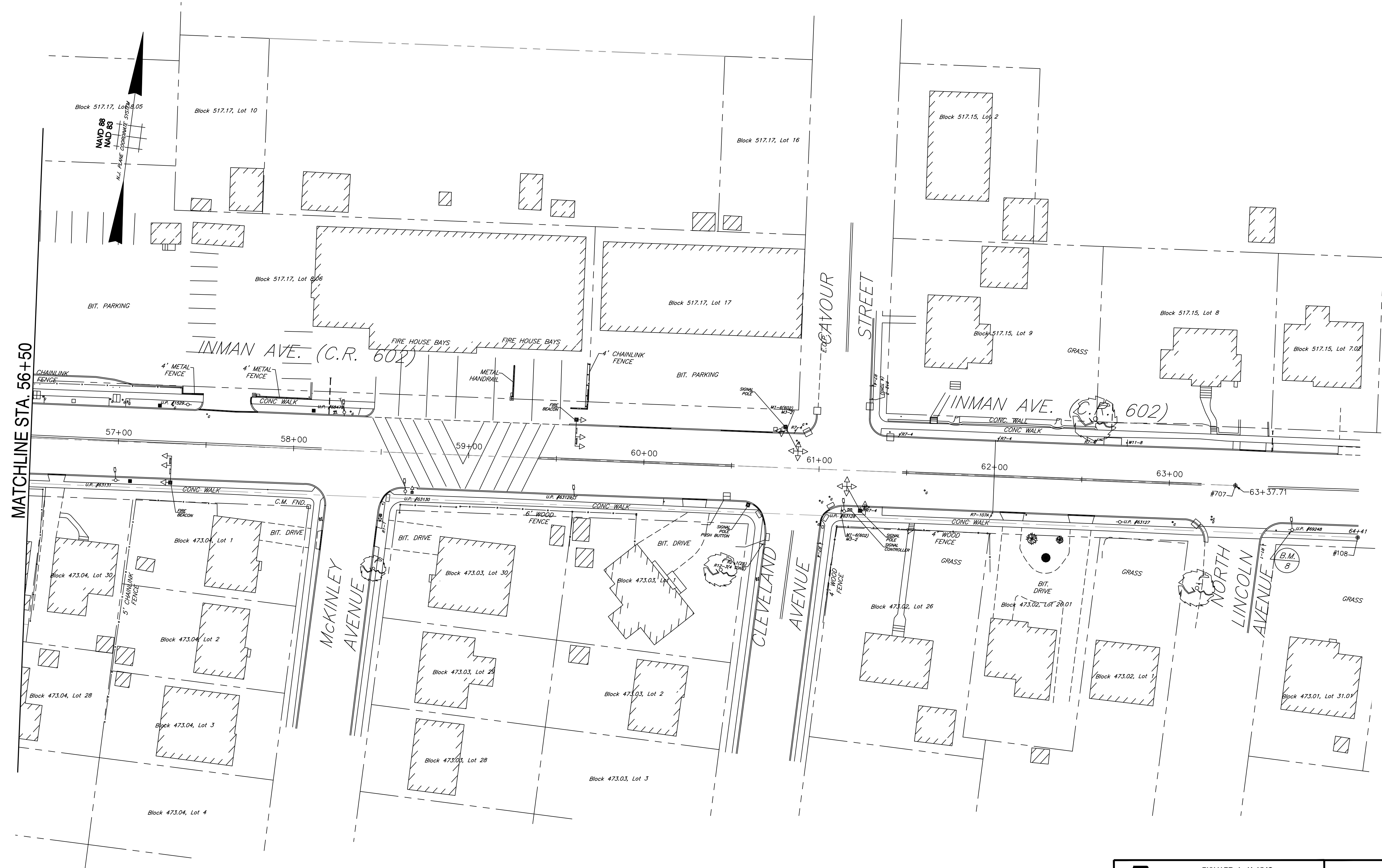
SEE CONSTRUCTION TIE SHEET TABULATIONS T-8 FOR POINT TABLES

BENCH MARKS  
 B.M. #6 - UP #76012 - P.K. FND. STA. 50+13.64 - 6.04' LT., SURVEY B ELEVATION = 87.77  
 B.M. #7 - UP #63132 - P.K. FND. STA. 56+43.59 - 3.57' LT., SURVEY B ELEVATION = 93.72



T-6  
T-8

 <p><b>RICHARD A. ALAIMO ENGINEERING COMPANY</b> Consulting Engineers NJCA 24GA2798800</p> <p>200 HIGH STREET MOUNT HOLLY, N.J. 2 MARKET STREET PATERSON, N.J.</p>	<p>Woodbridge Township Division of Engineering 1 Main Street, Woodbridge, NJ 07095</p>	
	<p>LIGHTING IMPROVEMENTS TO INMAN AVE (C.R. 602) FROM JORDAN ROAD TO WEST STREET TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY</p>	
<p>CONSTRUCTION TIE SHEET</p>		
<p>Richard A. Alaimo - P.E. N.J. PROFESSIONAL ENGINEER LICENSE NO. 13195</p>	<p>Designed By Checked By</p>	<p>Drawn By Dept. Head</p>
<p>RAA PROJECT NO. MH-21-124</p>	<p>Scale: 1" = 30' Sheet No. 14 of 16 Date: MARCH 2022</p>	
<p><i>Michael Gelin, P.E.</i> Woodbridge Township Engineer</p>		

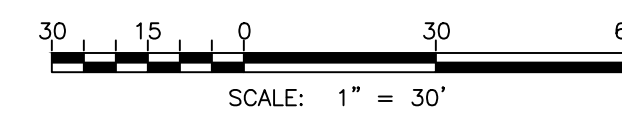


MATCHLINE STA. 56+50

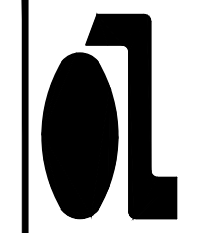
**NOTES:**

SEE CONSTRUCTION TIE SHEET TABULATIONS T-8 FOR POINT TABLES

BENCH MARKS  
 B.M. #8 - UP #69248WB - P.K. FND. STA. 64+03.52 - 2.83' LT., SURVEY B, ELEVATION = 80.97



T-7  
T-8

 <p><b>RICHARD A. ALAIMO ENGINEERING COMPANY</b>                  Consulting Engineers                  NJDCA 24GA27988800</p> <p>200 HIGH STREET MOUNT HOLLY, N.J.                  2 MARKET STREET PATERSON, N.J.</p>	Woodbridge Township Division of Engineering 1 Main Street, Woodbridge, NJ 07095	
	LIGHTING IMPROVEMENTS TO INMAN AVENUE (C.R. 602) FROM JORDAN ROAD TO WEST STREET TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY	
<b>CONSTRUCTION TIE SHEET</b>		
Richard A. Alaimo - P.E. N.J. PROFESSIONAL ENGINEER LICENSE NO. 13195	Designed By Drawn By Checked By Dept. Head	Scale: 1" = 30' Sheet No. 15 of 16 Date: MARCH 2022
RAA PROJECT NO. MH-21-124		
Michael Gelin, P.E. Woodbridge Township Engineer		

Plotted: 3/4/2022 2:18 PM Last saved: 3/4/2022 1:12 PM File Name: K:\Projects\B01450073000\2021-12-calin Lighting Plan\CAD files\GELIN -Construction TIES.dwg

SURVEY BASELINE POINTS						
POINT No.	NORTHING	EASTING	DESCRIPTION	BASELINE <sup>(1)</sup>	STATION <sup>(2)</sup>	OFFSET <sup>(3)</sup>
101	642908.0485	539170.3693	MAG-101	Construction	10+00.00	0.00'
102	642951.0573	539474.8488	MAG-102	Construction	13+07.50	0.00'
103	643043.3015	540131.7274	MAG-103	Construction	19+70.83	0.00'
104	643137.9519	540890.6078	MAG-104	Construction	27+35.59	0.00'
105	643216.3291	541504.2936	MAG-105	Construction	33+54.26	0.00'
106	643422.9348	543145.6451	MAG-106	Construction	50+08.56	0.00'
107	643500.6577	543783.5040	MAG-107	Construction	56+51.14	0.00'
108	643573.1529	544570.0833	MAG-108	Construction	64+41.05	0.00'

SURVEY BASELINE TABULATION			
ID #	Points	Bearing	Distance
SBL1	101 - 102	N 81°57'36" E	307.50'
SBL2	102 - 103	N 82°00'23" E	663.32'
SBL3	103 - 104	N 82°53'26" E	764.76'
SBL4	104 - 105	N 82°43'19" E	618.67'
SBL5	105 - 106	N 82°49'32" E	1,654.30'
SBL6	106 - 107	N 83°03'10" E	642.58'
SBL7	107 - 108	N 84°44'03" E	789.91'

INMAN AVENUE LIGHTING CONSTRUCTION POINTS						
POINT No.	NORTHING	EASTING	DESCRIPTION	BASELINE	STATION	OFFSET
501	642995.1343	539433.5399	501	Construction	12+38.94	-22.64' L
502	642986.5630	539693.4493	502	Construction	14+95.07	22.34' R
503	643036.1628	539714.8887	503	Construction	15+23.26	-23.76' L
504	643022.5526	539970.6906	504	Construction	17+74.88	23.59' R
505	643069.2814	539960.1167	505	Construction	17+70.47	-24.11' L
506	643039.2396	540112.5015	506	Construction	19+17.66	25.46' R
507	643090.6538	540120.8997	507	Construction	19+32.66	-24.43' L
508	643085.7254	540500.1264	508	Construction	23+08.13	29.45' R
509	643135.6401	540482.7609	509	Construction	22+97.23	-22.26' L
510	643147.8265	540574.8658	510	Construction	23+90.14	-22.68' L
511	643101.6336	540625.2025	511	Construction	24+34.22	29.51' R
512	643162.6290	540683.8137	512	Construction	25+00.08	-23.57' L
513	643115.4813	540734.2515	513	Construction	25+44.14	29.59' R
514	643127.1957	540826.8034	514	Construction	26+37.43	29.69' R
515	643180.6887	540828.4663	515	Construction	26+45.86	-23.16' L
516	643200.3214	540974.5613	516	Construction	27+93.26	-24.13' L
517	643246.2893	541344.7931	517	Construction	31+66.33	-22.84' L
518	643201.5613	541356.9703	518	Construction	31+72.75	23.07' R
519	643230.9262	541589.7131	519	Construction	34+07.34	23.42' R
520	643280.2710	541608.8434	520	Construction	34+32.56	-23.10' L

INMAN AVENUE LIGHTING CONSTRUCTION POINTS						
POINT No.	NORTHING	EASTING	DESCRIPTION	BASELINE	STATION	OFFSET
521	643247.5848	541721.3127	521	Construction	35+39.99	23.57' R
522	643264.3882	541858.9174	522	Construction	36+78.61	24.33' R
523	643332.6710	542028.9374	523	Construction	38+55.91	-21.87' L
524	643289.6415	542061.3339	524	Construction	38+82.60	24.92' R

INMAN AVENUE LIGHTING CONSTRUCTION POINTS						
POINT No.	NORTHING	EASTING	DESCRIPTION	BASELINE	STATION	OFFSET
Clock	643074.3949	540411.6790	601	Construction	22+18.87	29.44' R

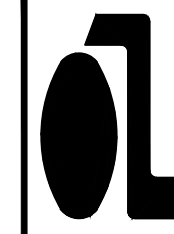
CONSTRUCTION BASELINE POINTS						
POINT No.	NORTHING	EASTING	DESCRIPTION	BASELINE <sup>(4)</sup>	STATION <sup>(5)</sup>	OFFSET <sup>(6)</sup>
701	642939.1724	539200.1446	BL-Begin	Construction	10+00.00	0.00'
702	643021.1182	539778.0202	BL-PI	Construction	15+83.66	0.00'
703	643105.3213	540421.0820	BL-PI	Construction	22+32.21	0.00'
704	643332.4421	542199.8051	BL-PI	Construction	40+25.37	0.00'
705	643349.3501	542363.7170	BL-PI	Construction	41+90.15	0.00'
706	643503.4621	543537.6463	BL-PI	Construction	53+74.16	0.00'
707	643593.2746	544497.0006	BL-End	Construction	63+37.71	0.00'

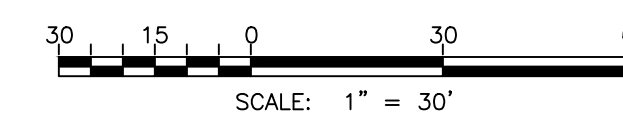
CONSTRUCTION BASELINE TABULATION			
ID #	Points	Bearing	Distance
CBL1	701 - 702	N 81°55'44" E	583.66'
CBL2	702 - 703	N 82°32'24" E	648.55'
CBL3	703 - 704	N 82°43'24" E	1,793.16'
CBL4	704 - 705	N 84°06'38" E	164.78'
CBL5	705 - 706	N 82°31'16" E	1,184.00'
CBL6	706 - 707	N 84°39'06" E	963.55'

- ⊙ Baseline refers to the Survey Baseline.
- ⊙ Station refers to the Survey Baseline.
- ⊙ Offset refers to the Survey Baseline.
- ⊙ Baseline refers to the Construction Baseline.
- ⊙ Station refers to the Construction Baseline.
- ⊙ Offset refers to the Construction Baseline.
- Out of the Limits of the Baseline.

Plotted: 3/4/2022 2:18 PM Last saved: 3/4/2022 1:12 PM File Name: K:\Projects\B01450073000\2021-12-gelin Lighting Plan\CAD files\GELIN -Construction TIES.dwg

T-8  
T-8

 <p><b>RICHARD A. ALAIMO ENGINEERING COMPANY</b> Consulting Engineers NJCA 24GA2798800 200 HIGH STREET MOUNT HOLLY, N.J. 2 MARKET STREET PATERSON, N.J.</p>	<p>Woodbridge Township Division of Engineering 1 Main Street, Woodbridge, NJ 07095</p>	
	<p>LIGHTING IMPROVEMENTS TO INMAN AVENUE (C.R. 602) FROM JORDAN ROAD TO WEST STREET TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY</p>	
<p><i>Richard A. Alaimo - P.E.</i> N.J. PROFESSIONAL ENGINEER LICENSE NO. 13195</p>		
<p>CONSTRUCTION TIE SHEET</p>		
<p>Designed By Checked By</p>	<p>Drawn By Dept. Head</p>	<p>Scale: 1" = 30' Sheet No. 16 of 16 Date: MARCH 2022</p>
<p><i>Michael Gelin, P.E.</i> Woodbridge Township Engineer</p>		



RAA PROJECT NO.  
MH-21-124