

AGENDA

GOAL 3 ALLIANCE



Board Members:

Kristen Bennett • Jim Botts • Trey Conner • Meegan Joyce • Ryan Kilpatrick •
SuLin Kotowicz • Nikos Monoyios • Jonathan Oeverman • Haley Patrone •
Kara Peltier • Andrew Queenan • Dave Riley • Daniela Rojas • Breese Stam •

July 23, 2018

3:30p – 5:00p

29 Pearl Street, NW Suite #1

1. Call to Order
2. Approval of Minutes- April 23, 2018
3. FY19 Budget
4. Street Project, Division from Wealthy to Cherry
Street Lighting, Division from Cherry to Fulton
5. Downtown Bus Shelter Implementation
6. Draft Bike Action Plan / Bike Share Feasibility Study
7. Next Meeting- TBD
8. Public Comment
9. Adjournment





DOWNTOWN
GRAND RAPIDS INC.

Goal 3 Alliance

April 23, 2018

1. Call to order: Mr. Monoyios called the meeting to order at 3:32pm
2. Members Present: Meegan Joyce, Nick Monoyios, Breese Stam, SuLin Kotowicz, Kara Peltier, Mark Miller, David Riley

Members Absent: Andrew Queenan, Kristen Bennett, Jim Botts, Trey Conner, Ryan Kilpatrick, Jonathan Oeverman, Hailey Patrone, Andrew Queenan, Daniela Rojas

Others Present: Stephanie Wong, Flor Valera (DGRI Staff) Hank Kelley-Mobile GR

3. Approval of Minutes- January 22, 2018
Motion: SuLin Kotowicz and Meegan Joyce, moved approval of the minutes from the January 22, 2018 meeting as presented. Motion carried unanimously.
4. FY19 Budget
Stephanie Wong gave an overview of the budget that will be presented to the DDA Board Meeting in May, saying it includes priorities identified over the months by the Alliance. Ms. Wong said a matrix was included in the agenda packet, as previously requested at the last meeting and explained that the highlighted parts in the matrix represent the projects completed to this day. Ms. Wong noted that other items can be added to the project list. The Alliance took a moment to discuss some of the projects being proposed. Mr. Monoyios asked Ms. Wong to explain why some projects were rolling over to the new fiscal year. Ms. Wong responded that those projects were not able to get completed during the current fiscal year. Mr. Monoyios asked the Alliance if any changes needed to be made to the budget, but the

Alliance responded otherwise. Accordingly, the budget was recommended to go before the DDA Board.

5. Street Project Review

Breese Stam from the City of Grand Rapids Engineering Department gave an overview of each of the project sites listed below and added that the identified enhancements would improve safety for pedestrian and vehicular traffic. Mr. Stam noted that these projects were being designed using the Vital Streets guidelines and the GR Forward Plan. Below is a summary of each of the site recommended improvements.

- Newberry Street* – Mr. Stam presented the design for the reconstruction of Newberry Street from Monroe Avenue to Division Avenue. Mr. Stam explained that this street is an important pedestrian and bicycle connection with the Sixth Street Bridge extending over the Grand River and a future switchback multiuse pathway connecting to the Belknap Hill area across Division Avenue. Mr. Stam said the design features a two-way street with bike lanes on both sides of the street. The improvements consist of traffic signals, pavement markings, sewer work, street trees, sidewalks, street lighting and bike loops with a. The Alliance took a moment to review the design. Mr. Monoyios asked what the DDA board would be responsible for. Mr. Stam responded DDA would be responsible for the traffic signal improvements at the intersection of Ottawa and Newberry Street.

- Sheldon Avenue* – Mr. Stam presented the design for Sheldon Avenue and proceeded to explain that this project consisted of the reconstruction from Weston Street to Fulton Street. Mr. Stam noted that Sheldon Avenue was envisioned in the GR Forward Plan to be a linear park that would connect Veterans Memorial Park with Cathedral Square. Mr. Stam informed that this was the first phase of implementing that vision. The recommended improvements for this project include a two-way street with parking on both sides of the street with twin head ornamental lights, raised planters, porous pavers, traffic signals, benches, bike loops, litter receptacles, sidewalk and street trees. Mr. Stam said DDA's share of cost is for the streetscape work. The Alliance took a moment to share their suggestions regarding the tree selection.

- Weston Street* – Mr. Stam proceeded to share the design for the reconstruction of Weston Street from Sheldon to LaGrave Avenue adding that it was being coordinated with the reconstruction of Sheldon Avenue. The project includes the removal of existing asphalt and brick pavement, new ornamental street lighting, water main replacement, pavement markings, and a new concrete sidewalk. Mr. Stam said the DDA's share of costs in the amount of \$362,000.

MINUTES

Minutes-April 23, 2018

•*Division Avenue*- Mr. Stam presented the final design for the street lighting improvements on Division Avenue from Cherry Street to Fulton Street. Mr. Stam said the proposed work includes the installation of approximately twenty-one (21) street lighting poles, concrete foundations, wiring and equipment. These improvements would help address safety concerns identified by residents and business owners. Mr. Stam noted that this project is being financed by a combination of City's Capital Improvement Fund and the DDA. The Alliance took a moment to discuss the lighting pole selection, lighting levels, and the traffic signals mounting styles. Mr. Stam thanked the Alliance for the recommendations.

6. Alliance Member Discussion

Ms. Wong informed the Alliance that DGRI is currently working to create a Downtown Streetscapes Design Guidelines to enhance the goals from the GR Forward Plan and the City of Grand Rapids Vital Street Plan. An initial draft will be available and encouraged the Alliance to attend the upcoming meetings to review the draft and provide feedback.

7. Next Meeting – July 23, 20188. Public Comment

None

9. Adjournment

Mr. Monoyios adjourned the meeting at 4:50pm

Minutes taken by:

Flor Valera

Administrative Assistant

Downtown Grand Rapids Inc.

Goal 3 Alliance FY18 Budget Plan

[illegible]

Goal 3 Alliance FY19 Budget Plan

[illegible]

UTILITIES - CONTACT INFORMATION

PUBLIC	PRIVATE
CITY OF GRAND RAPIDS TRAFFIC SIGNALS 509 WEALTHY ST. SW GRAND RAPIDS, MI 49503 (616) 456-3847	CONSUMERS ENERGY (ELECTRIC) PO BOX 201 GRAND RAPIDS, MI 49501-0201 (616) 530-4244
CITY OF GRAND RAPIDS STREET LIGHTING 509 WEALTHY ST. SW GRAND RAPIDS, MI 49503 (616) 456-3281	AT&T (TELEPHONE) ROOM 5 (PROJECTS N. OF FRANKLIN ST.) 2ND FLOOR (PROJECTS S. OF FRANKLIN ST.) 955 36TH ST. SE GRAND RAPIDS, MI 49508 (616) 246-7203 (PROJECTS N. OF FRANKLIN ST.) (616) 246-7210 (PROJECTS S. OF FRANKLIN ST.)
CITY OF GRAND RAPIDS WATER SYSTEM 1900 OAK INDUSTRIAL DR. NE GRAND RAPIDS, MI 49505 (616) 456-4096	DTE ENERGY (NATURAL GAS) 444 WEALTHY ST. SW GRAND RAPIDS, MI 49503 (800) 947-5000
CITY OF GRAND RAPIDS SANITARY AND STORM SEWER MAINTENANCE 1900 OAK INDUSTRIAL DR. NE GRAND RAPIDS, MI 49505 (616) 456-4096	XFINITY/COMCAST (CABLE TV) 955 CENTURY AVE. SW GRAND RAPIDS, MI 49503 (616) 245-5039
KENT COUNTY ROAD COMMISSION 1500 SCRIBNER AVE. NW GRAND RAPIDS, MI 49504 (616) 242-6910	VERIZON BUSINESS (FIBER OPTICS) 2855 OAK INDUSTRIAL DR. NE GRAND RAPIDS, MI 49505 (616) 224-4944
M.D.O.T. 1420 FRONT AVE. NW GRAND RAPIDS, MI 49504 (616) 451-3091	CENTURY TEL (FIBER OPTICS) 320 N. WASHINGTON SQUARE LANSING, MI 48933 (989) 239-8110
GRAND RAPIDS TOWNSHIP 1836 EAST BELTLINE AVE. NE GRAND RAPIDS, MI 49505 (616) 361-7391	CHOICEONE (FIBER OPTICS) 44 GRANDVILLE AVE. SW, STE. 400 GRAND RAPIDS, MI 49503 (616) 988-7100
	US SIGNAL COMPANY, LLC (FIBER OPTICS) 20 MONROE AVE. NW GRAND RAPIDS, MI 49503 (616) 988-7031
	LDMI 3355 EAGLE PARK DR. NE, STE. 102 GRAND RAPIDS, MI 49525 (616) 493-5364
	VEOLIA ENERGY GRAND RAPIDS LLC - STEAM 50 MONROE AVE. NW, SUITE 430 GRAND RAPIDS, MI 49503 (616) 356-2535
	TDS METROCOM, LLC 1575 GEZON PARKWAY SUITE B WYOMING, MI 49509 (616) 301-3033

CALL 811 FOR MISS DIG

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 1974, THE CONTRACTOR SHALL CALL 811 A MINIMUM OF THREE (3) FULL WORKING DAYS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO EXCAVATING IN THE VICINITY OF UTILITY LINES. ALL "MISS DIG" PARTICIPATING MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

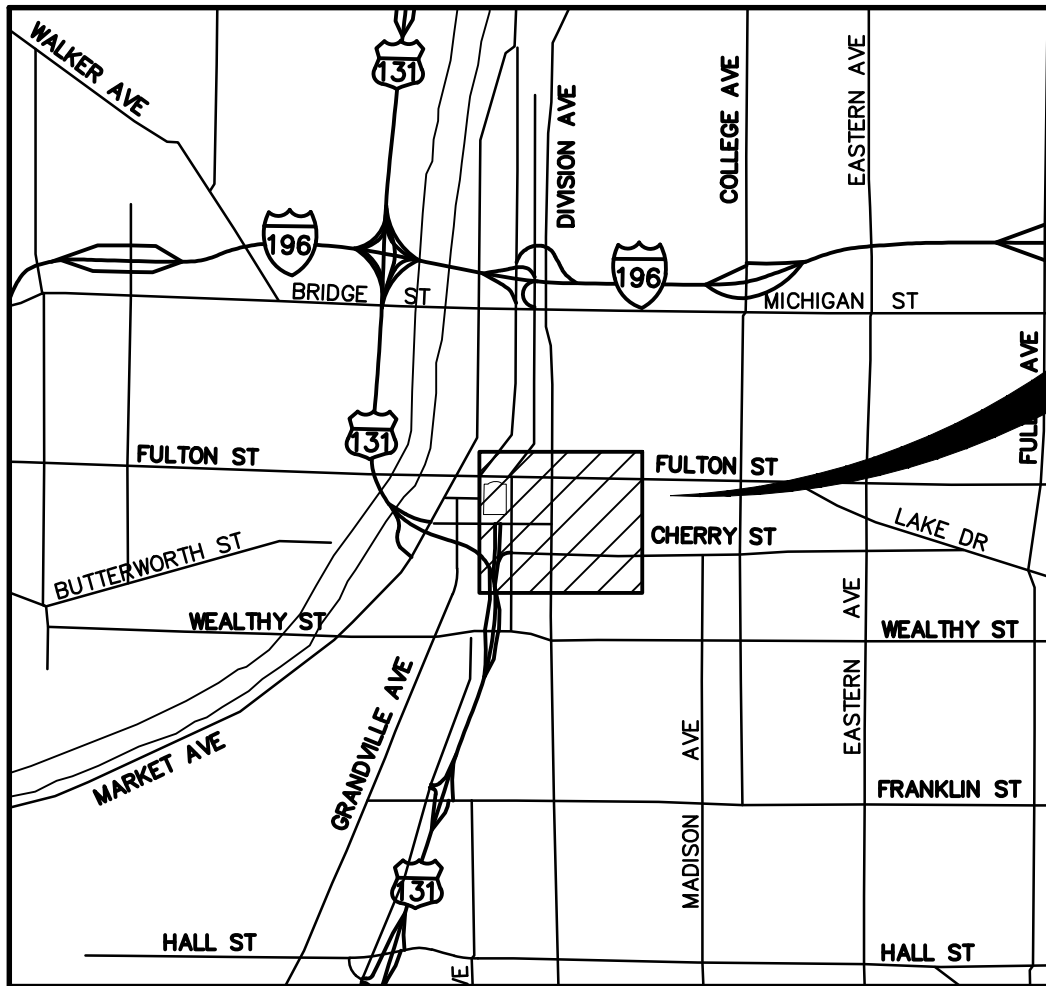
GENERAL NOTES

- MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 1993 EDITION OF THE CITY OF GRAND RAPIDS STANDARD CONSTRUCTION SPECIFICATIONS, EXCEPT AS OTHERWISE INDICATED ON THESE PLANS OR IN THE SUPPLEMENTAL SPECIAL SPECIFICATIONS.
- THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS (GAS), STEAM, TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) ARE APPROXIMATE. THE CITY OF GRAND RAPIDS ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION ON THE DRAWINGS INCLUDED IN THIS DRAWING SET. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

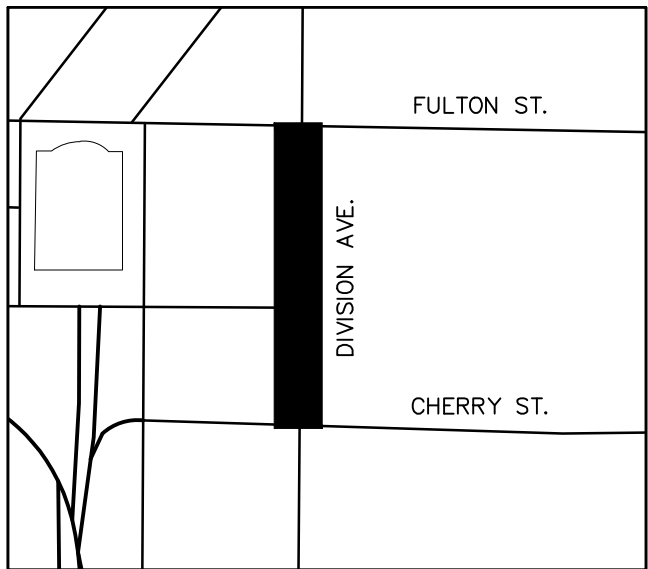


CITY OF GRAND RAPIDS
GRAND RAPIDS, MICHIGAN
DESIGN, DEVELOPMENT
AND ENTERPRISE SERVICES

STREET LIGHTING IMPROVEMENTS
ON
DIVISION AVE.
FROM CHERRY STREET
TO FULTON STREET



PROJECT LOCATION



JOB SITE

BID SET				AS-BUILT RECORD	
BID SET NO.	DATE	BID SET NO.	DATE	CONTRACTOR	
				FIELD ENGINEER	
				INSPECTED BY	
				AS-BUILT BY	
				AS-BUILT DATE	
				BORINGS BY	
				WATER PIPE MANUFACTURER	
				SANITARY PIPE MANUFACTURER	
				STORM PIPE MANUFACTURER	
PERMITS					
M.D.E.Q. WATER SYSTEM PERMIT NO.:			OTHER: NO.:		
M.D.E.Q. WASTEWATER SYSTEM PERMIT NO.:			OTHER: NO.:		
M.D.O.T. RIGHT-OF-WAY PERMIT NO.:			OTHER: NO.:		

CITY COMMISSION PROC. NO. _____ DATE _____	ADDITIONAL CITY COMMISSION PROCEEDINGS	
MDOT AGREEMENT ☐ CONTRACT AWARDED ☐	PROCEEDING NO.	DATE PURPOSE
FINANCIAL AGREEMENT ☐ SHPO AGREEMENT ☐		
GRANT AGREEMENT ☐ COST SHARING AGREEMENT ☐		
PUBLIC UTILITIES EASEMENT (SEE EASEMENT DESCRIPTION SHEET)		

INDEX OF SHEETS

1 TITLE SHEET

REMOVAL SHEETS

2 DIVISION ST.

3 DIVISION ST.

4 DIVISION ST.

STREET LIGHTING SHEETS

5 DIVISION ST.

6 DIVISION ST.

7 DIVISION ST.

8 STREET LIGHTING DETAILS

RECONSTRUCTION SHEETS

9 PUBLIC STREET

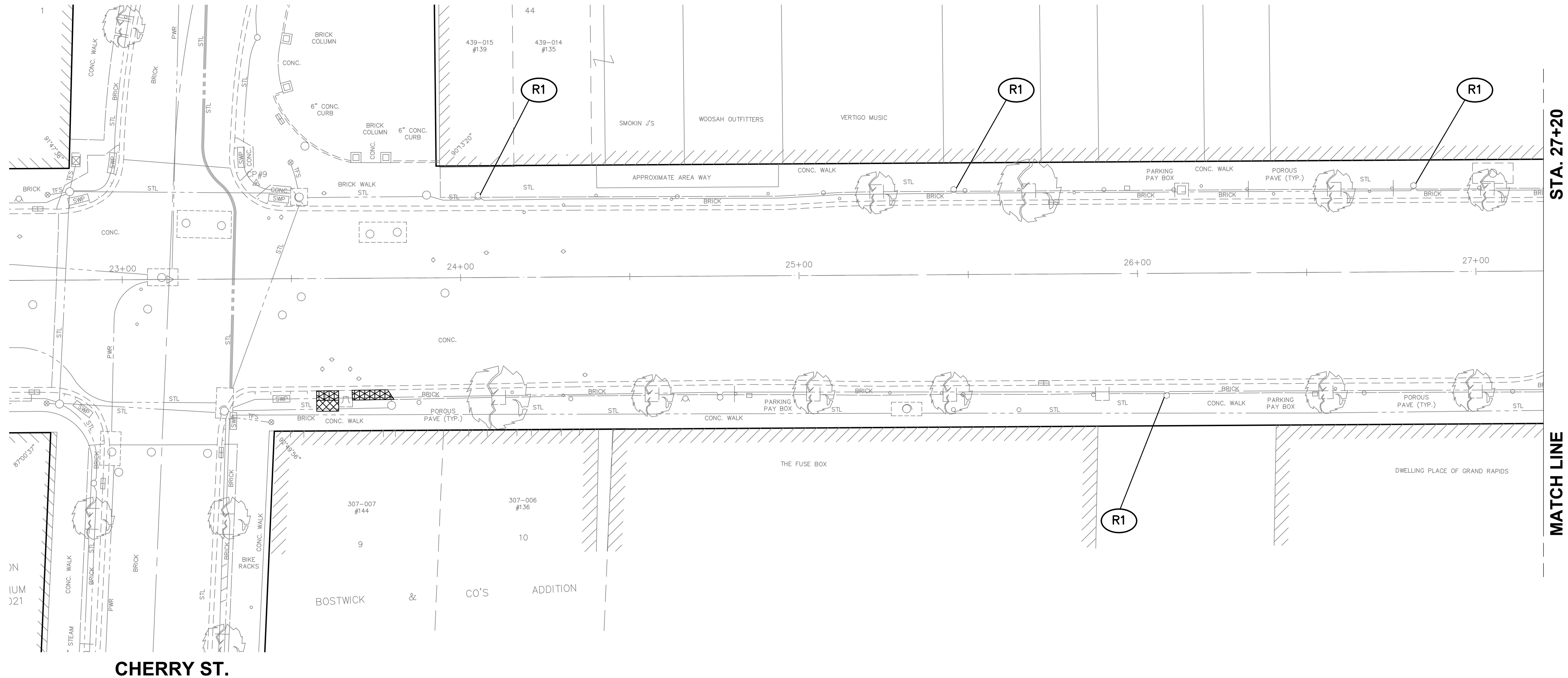
10 2ND PUBLIC STREET

12 CROSS STREETS

90% REVIEW

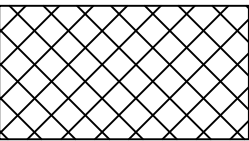
CITY OF GRAND RAPIDS PROFESSIONAL PERSON IN RESPONSIBLE CHARGE OF THE PROJECT	City of Grand Rapids Design, Development and Enterprise Services Engineering Department	
SHEETS 1-11	STREET LIGHTING IMPROVEMENTS ON DIVISION AVE. FROM CHERRY STREET TO FULTON STREET	
NAME OF LICENSEE GEORGE J. ORPHAN		
NUMBER 17231		
SIGNATURE	277-365.1	
	Drawn by _____ Notes in _____	
	Check: Field _____ Office _____	
	Approved _____ City Engineer _____ Date _____	
	APPROVAL OF SHEET(S) _____ ONLY	
Project File No. 18026	GPF No. 0000	Sheet No. 1 of 11

Z:_CLIENTS\277 - City of Grand Rapids - Electrical\W385.1 - Division Cherry to Fulton Design Engineering\DRAWINGS\STREET LIGHT REMOVAL SHEETS.cwg, Sheet 2, 7/17/2018 5:28:31 PM

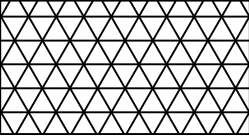


SCALES
PLAN: 1"=20'

SYMBOL LEGEND



REMOVE
4" CONCRETE SIDEWALK.
(3 SQ. YD. REQUIRED THIS SHEET)



REMOVE BRICK PAVEMENT ON CONCRETE BASE
(FULL DEPTH) AND SALVAGE BRICK PAVERS
(6 SQ. YD. REQUIRED THIS SHEET)

R1

REMOVE AND SALVAGE POLE AND LUMINAIRE.
(4 EACH REQUIRED THIS SHEET)

90% REVIEW

REMOVAL

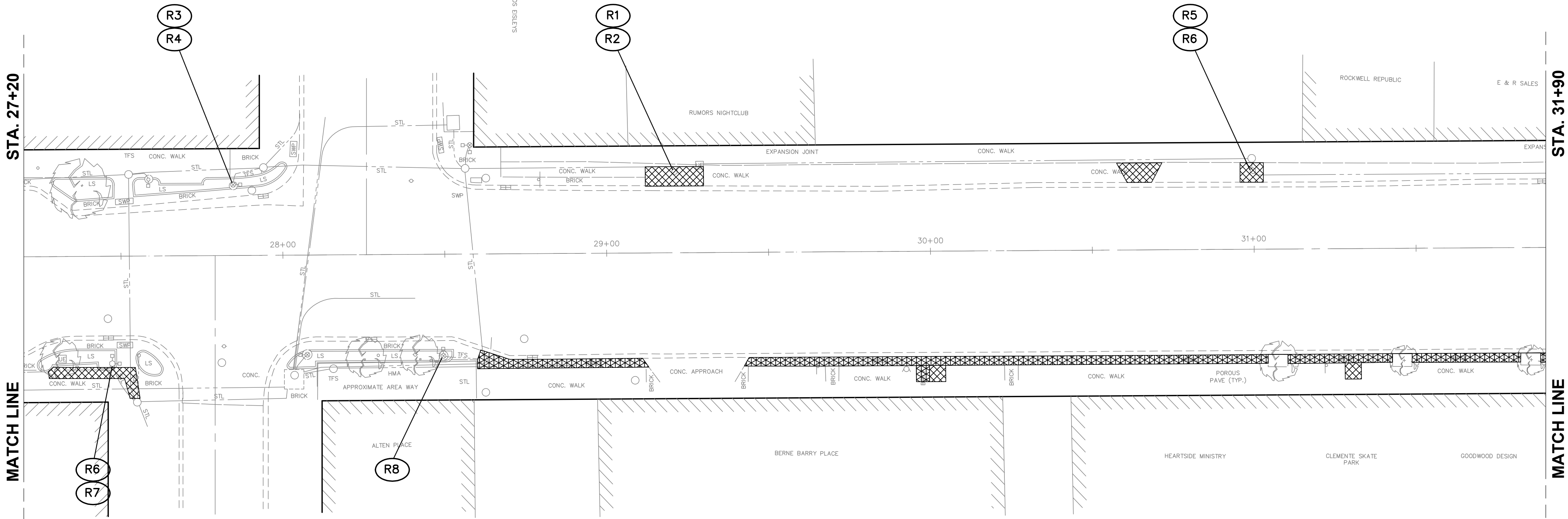
REV. NO.	DESCRIPTION
DESIGNED BY:	 Geotech, Inc. <i>Engineered Systems</i> 616.949.3340 info@geotech-inc.com 616.949.8228-FAX www.geotech-inc.com 4900 Cascade Road, S.E., Grand Rapids, Michigan 49506
277-365.1	City of Grand Rapids Design, Development and Enterprise Services Engineering Department
STREET LIGHTING IMPROVEMENTS ON DIVISION AVE. FROM CHERRY STREET TO FULTON STREET	
Drawn by _____ Check: Field _____ Check: Office _____	GPF No. _____ Sheet No. 2 of 11

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) ARE APPROXIMATE. THE CITY OF GRAND RAPIDS ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

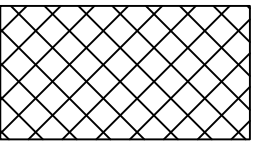
OAKES ST.



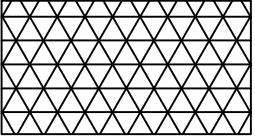
SCALES
PLAN: 1"=20'



SYMBOL LEGEND



REMOVE
4" CONCRETE SIDEWALK.
(42 SQ. YD. REQUIRED THIS SHEET)



REMOVE BRICK PAVEMENT ON CONCRETE BASE
(FULL DEPTH) AND SALVAGE BRICK PAVERS
(93 SQ. YD. REQUIRED THIS SHEET)

OAKES ST.

R1 REMOVE AND SALVAGE POLE AND LUMINAIRE.
(1 EACH REQUIRED THIS SHEET)

R5 REMOVE AND SALVAGE POLE AND ARM.
(1 EACH REQUIRED THIS SHEET)

R2 REMOVE POLE FOUNDATION.
(1 EACH REQUIRED THIS SHEET)

R6 REMOVE AND DISPOSE LUMINAIRE.
(2 EACH REQUIRED THIS SHEET)

R3 REMOVE AND SALVAGE LUMINAIRE.
(1 EACH REQUIRED THIS SHEET)

R7 REMOVE AND SALVAGE POLE AND SIGNALS.
(1 EACH REQUIRED THIS SHEET)

R4 REMOVE LUMINAIRE ARM.
(1 EACH REQUIRED THIS SHEET)

R8 REMOVE AND SALVAGE POLE, LUMINAIRE, AND
SIGNALS.
(1 EACH REQUIRED THIS SHEET)

90% REVIEW

REMOVAL

REV. NO.	DESCRIPTION
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Drawn by _____	GPF No. _____
Check: Field _____	Sheet No. _____
Check: Office _____	3 of 11

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) ARE APPROXIMATE. THE CITY OF GRAND RAPIDS ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

WESTON ST.

FULTON ST.



SCALES
PLAN: 1"=20'

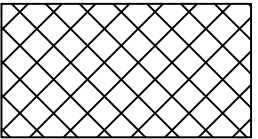
STA. 31+90

MATCH LINE

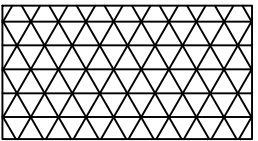
WESTON ST.

(FULTON ALLEY)

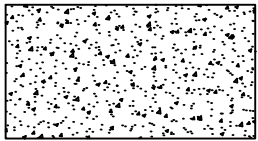
SYMBOL LEGEND



REMOVE
4" CONCRETE SIDEWALK.
(124 SQ. YD. REQUIRED THIS SHEET)



REMOVE BRICK PAVEMENT ON CONCRETE BASE
(FULL DEPTH) AND SALVAGE BRICK PAVERS
(76 SQ. YD. REQUIRED THIS SHEET)



REMOVE
6" CONCRETE DRIVEWAY.
(12 SQ. YD. REQUIRED THIS SHEET)

R2 REMOVE POLE FOUNDATION.
(2 EACH REQUIRED THIS SHEET)

R5 REMOVE AND SALVAGE POLE AND ARM.
(1 EACH REQUIRED THIS SHEET)

R6 REMOVE & DISPOSE LUMINAIRE.
(2 EACH REQUIRED THIS SHEET)

R7 REMOVE AND SALVAGE POLE AND SIGNALS.
(2 EACH REQUIRED THIS SHEET)

R9 REMOVE AND SALVAGE SIGNALS.
(1 EACH REQUIRED THIS SHEET)

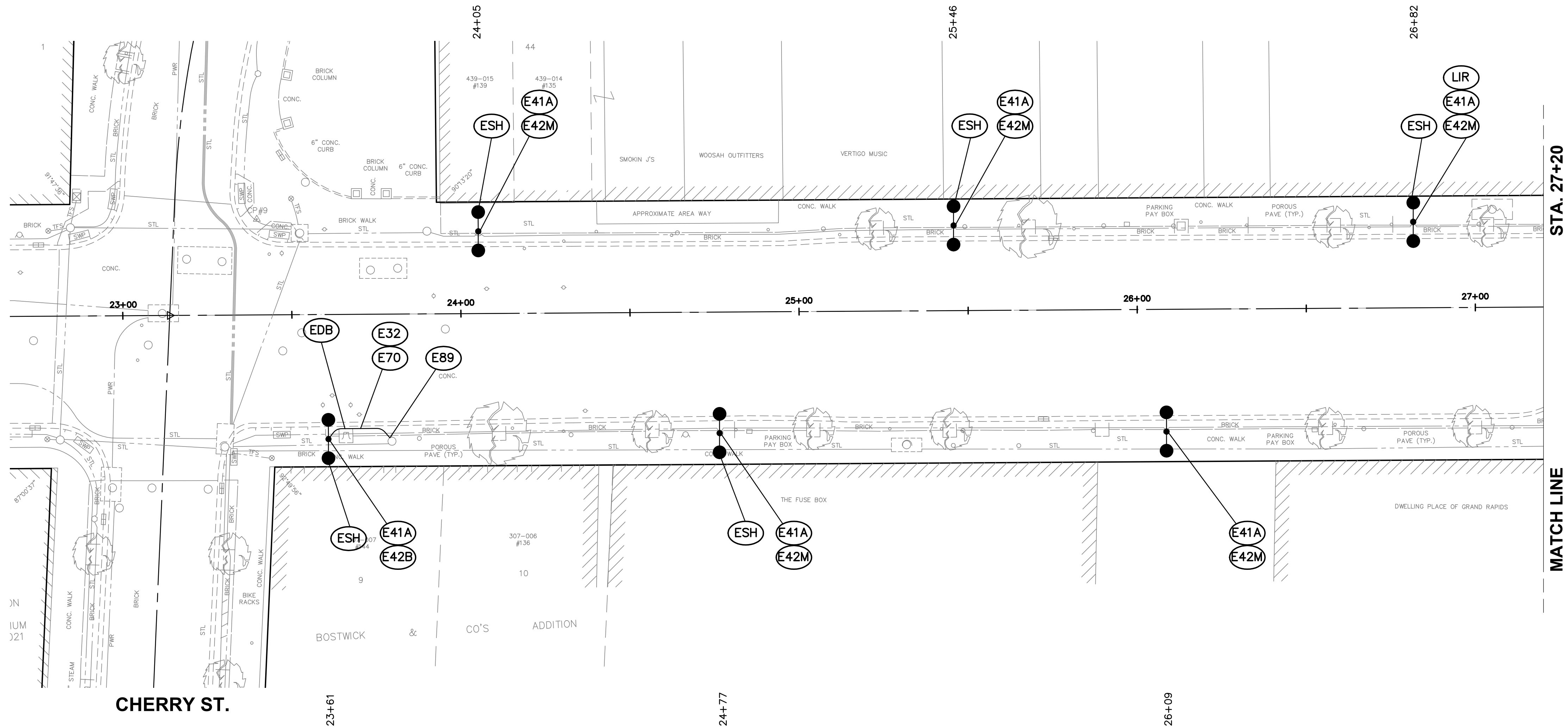
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REMOVAL

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STREET LIGHTING IMPROVEMENTS ON DIVISION AVE. FROM CHERRY STREET TO FULTON STREET	
Drawn by _____	GPF No. _____
Check: Field _____	Sheet No. _____
Check: Office _____	4 of 11

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) ARE APPROXIMATE. THE CITY OF GRAND RAPIDS ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

Z:_CLIENTS\277 - City of Grand Rapids - Electrical\W365.1 - Division Cherry to Fulton Design Engineering\DRAWINGS\STREET LIGHT DESIGN SHEETS.dwg, Sheet 5, 7/17/2018 5:22:20 PM



SCALES
PLAN: 1"=20'

- E32** PLACE CONDUCTOR, (4) #6 CU U.S.E. 600V INSULATION (20 FT. REQUIRED THIS SHEET)
- E41A** PLACE STREET LIGHTING POLE, ORNAMENTAL, (2) 242W LED LUMINAIRES (DETAIL E-28DA) (6 EACH REQUIRED THIS SHEET)
- E42B** PLACE CONCRETE BASE FOR STREET LIGHTING POLE (DETAIL E-28A) (1 EACH REQUIRED THIS SHEET)
- E42M** MODIFY AND REUSE EXISTING CONCRETE BASE FOR STREET LIGHTING POLE (DETAIL E-28MB) (5 EACH REQUIRED THIS SHEET)

- E70** PLACE CONDUIT, DIRECT BURIED, SCHEDULE 40 PVC, (1) 2 INCH (DETAIL E-99) (20 FT. REQUIRED THIS SHEET)
- E89** CONDUIT(S) CONNECT TO EXISTING (1 EACH REQUIRED THIS SHEET)
- ESH** PLACE HOUSE SIDE 90° SHIELD. (5 EACH REQUIRED THIS SHEET)
- EDB** BORE UNDER TREE BASE. (8 FT. REQUIRED THIS SHEET)
- LIR** LOCATE, INTERCEPT, AND RELOCATE EXISTING 2" PVC TO NEW POLE BASE. (1 EACH REQUIRED THIS SHEET)

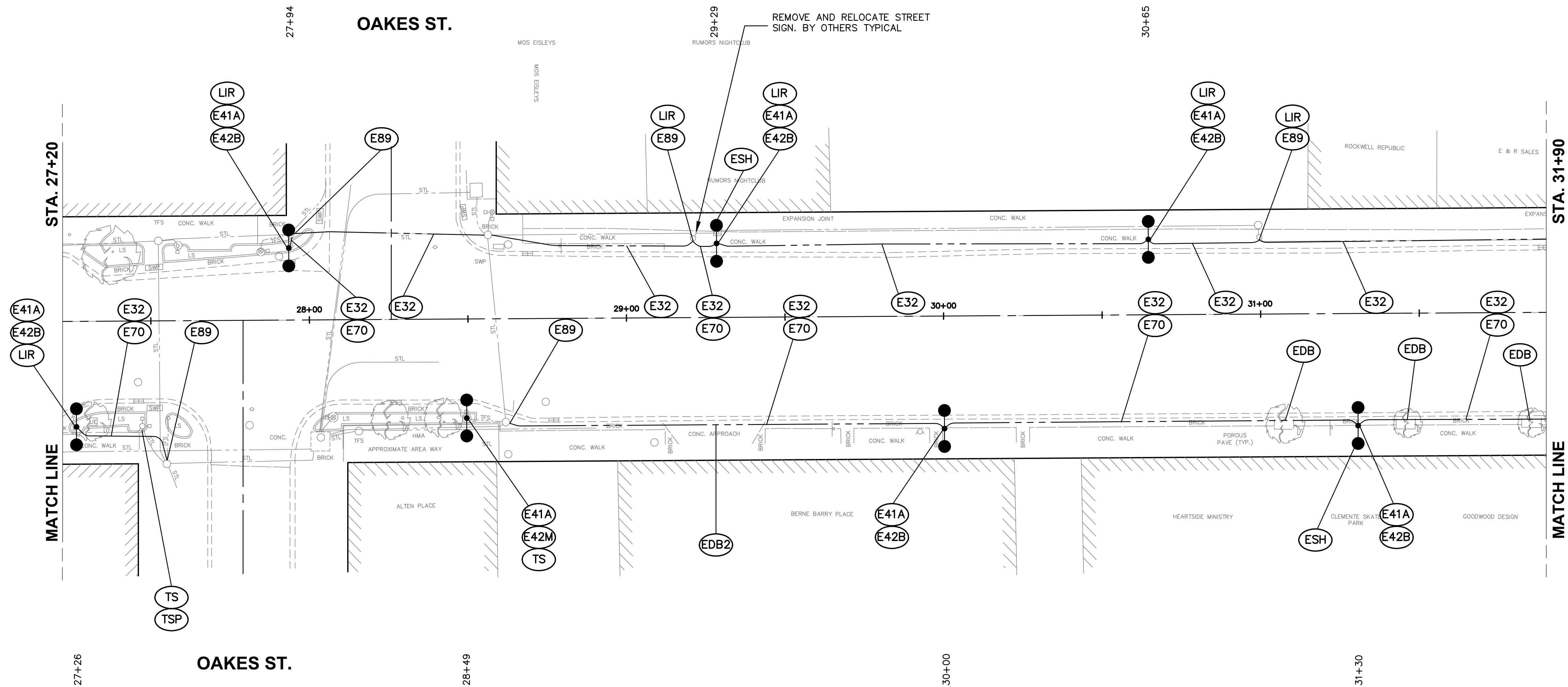
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Check: Office _____	5 of 11

Z:_CLIENTS\277 - City of Grand Rapids - Electrical\W365.1 - Division Cherry to Fulton Design Engineering\DRAWINGS\STREET LIGHT DESIGN SHEETS.dwg, Sheet 6, 7/17/2018 5:23:48 PM



SCALES
PLAN: 1"=20'

- E32** PLACE CONDUCTOR, (4) #6 CU U.S.E. 600V INSULATION (762 FT. REQUIRED THIS SHEET)

E41A PLACE STREET LIGHTING POLE, ORNAMENTAL, (2) 242W LED LUMINAIRES (DETAIL E-28DA) (7 EACH REQUIRED THIS SHEET)

E42B PLACE CONCRETE BASE FOR STREET LIGHTING POLE (DETAIL E-28A) (6 EACH REQUIRED THIS SHEET)

E42M MODIFY AND REUSE EXISTING CONCRETE BASE FOR STREET LIGHTING POLE (DETAIL E-28MB) (1 EACH REQUIRED THIS SHEET)

E70 PLACE CONDUIT, DIRECT BURIED, SCHEDULE 40 PVC, (1) 2 INCH (DETAIL E-99) (372 FT. REQUIRED THIS SHEET)
- E89** CONDUIT(S) CONNECT TO EXISTING (4 EACH REQUIRED THIS SHEET)

EDB BORE UNDER TREE BASE. (24 FT. REQUIRED THIS SHEET)

EDB2 BORE UNDER DRIVEWAY APRON. (40 FT. REQUIRED THIS SHEET)

ESH PLACE HOUSE SIDE 90° SHIELD. (2 EACH REQUIRED THIS SHEET)

LIR LOCATE, INTERCEPT, AND RELOCATE EXISTING 2" PVC TO NEW POLE BASE. (5 EACH REQUIRED THIS SHEET)

TS PLACE SALVAGED SIGNALS AND RECONNECT (2 EACH REQUIRED THIS SHEET)

TSP PLACE LOW LEVEL SIGNAL PEDESTAL (1 EACH REQUIRED THIS SHEET)

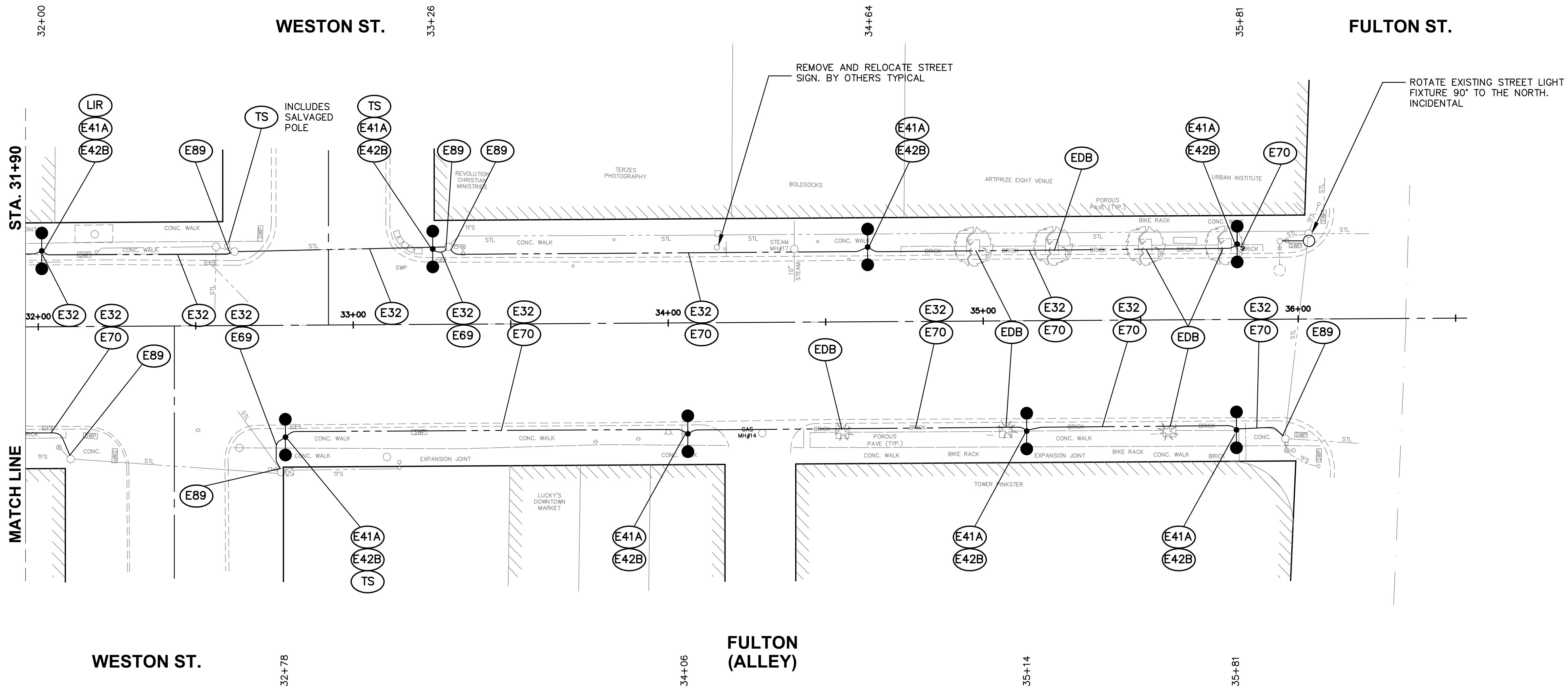
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SCALES
PLAN: 1"=20'

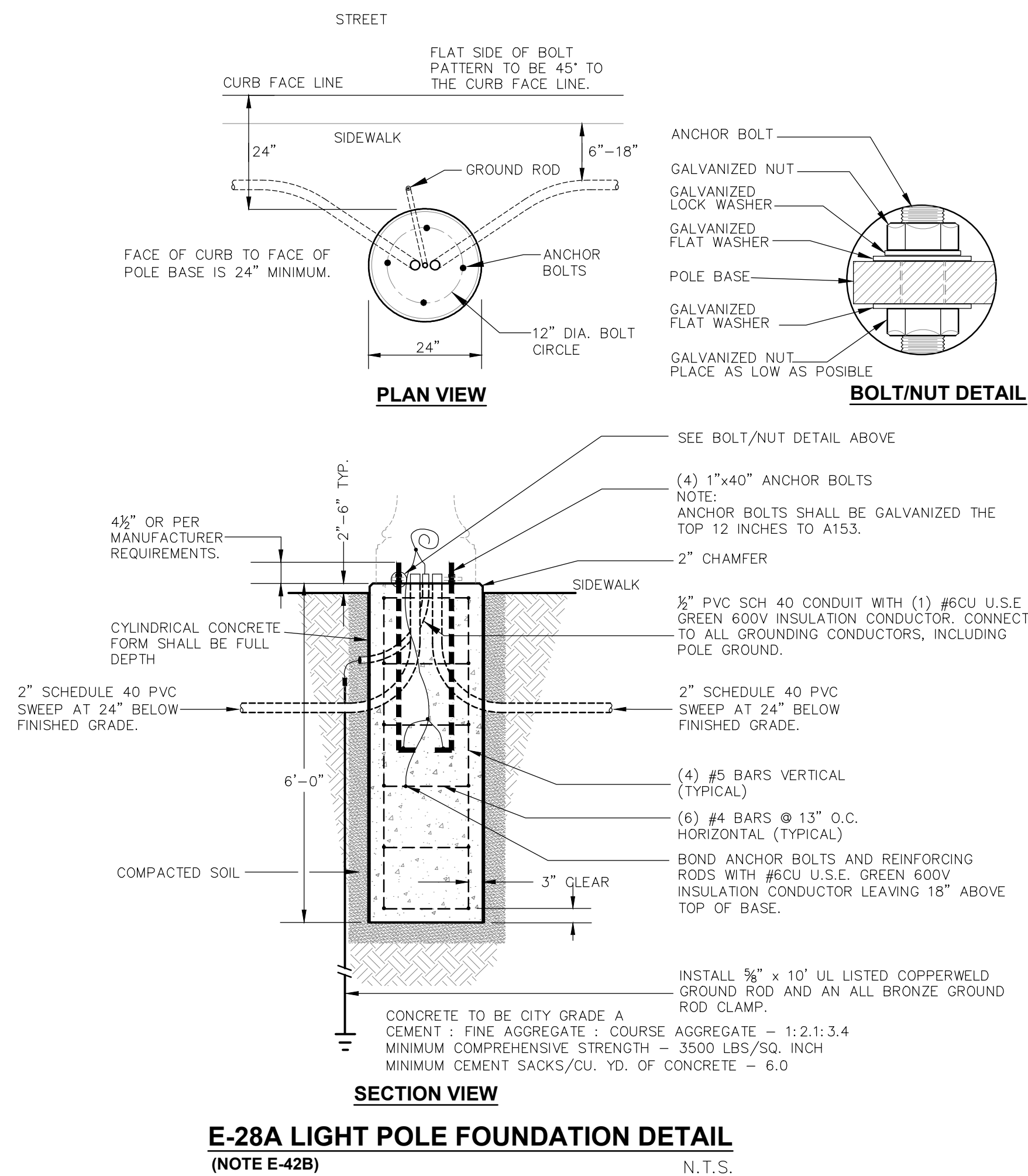
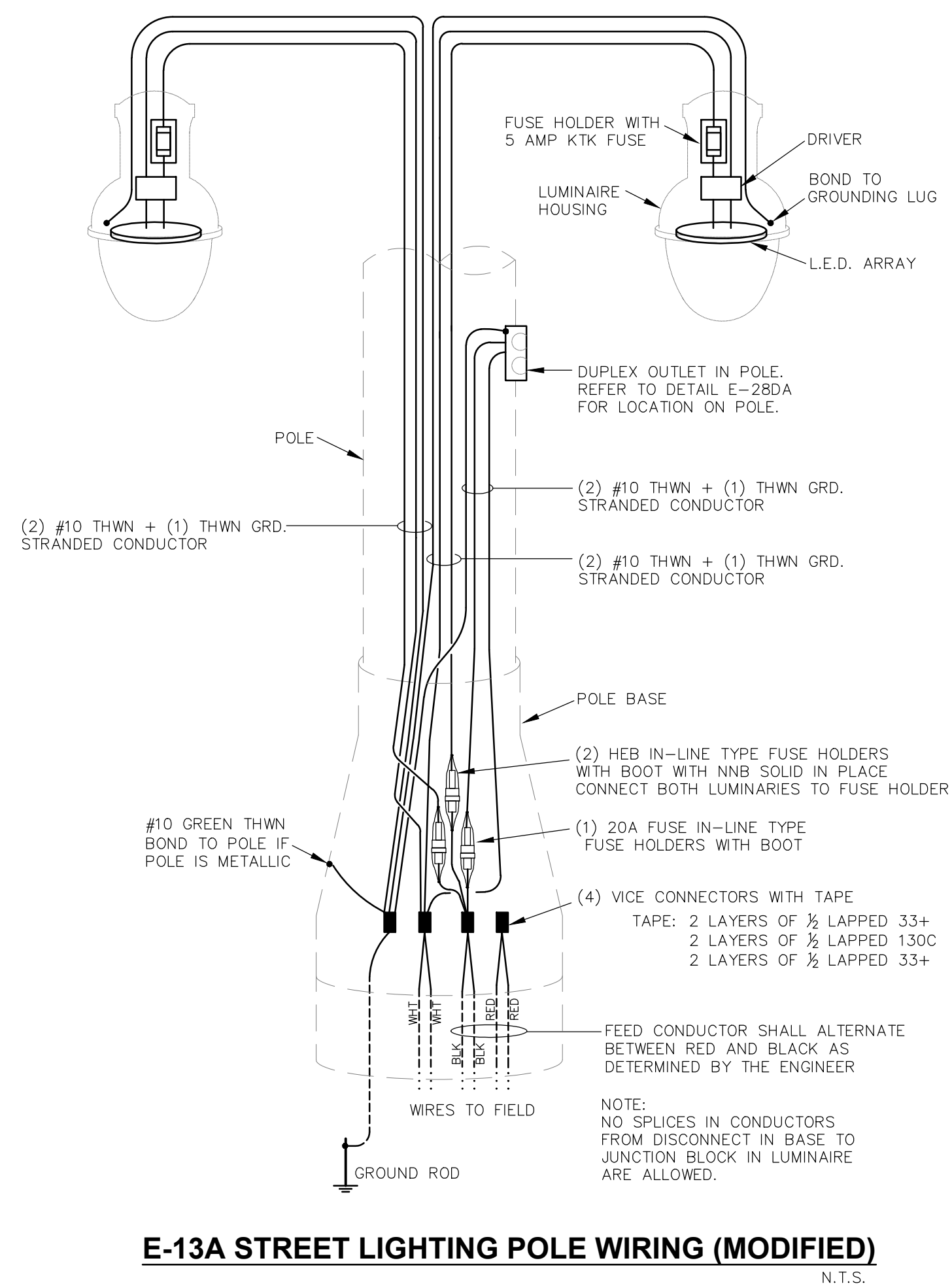
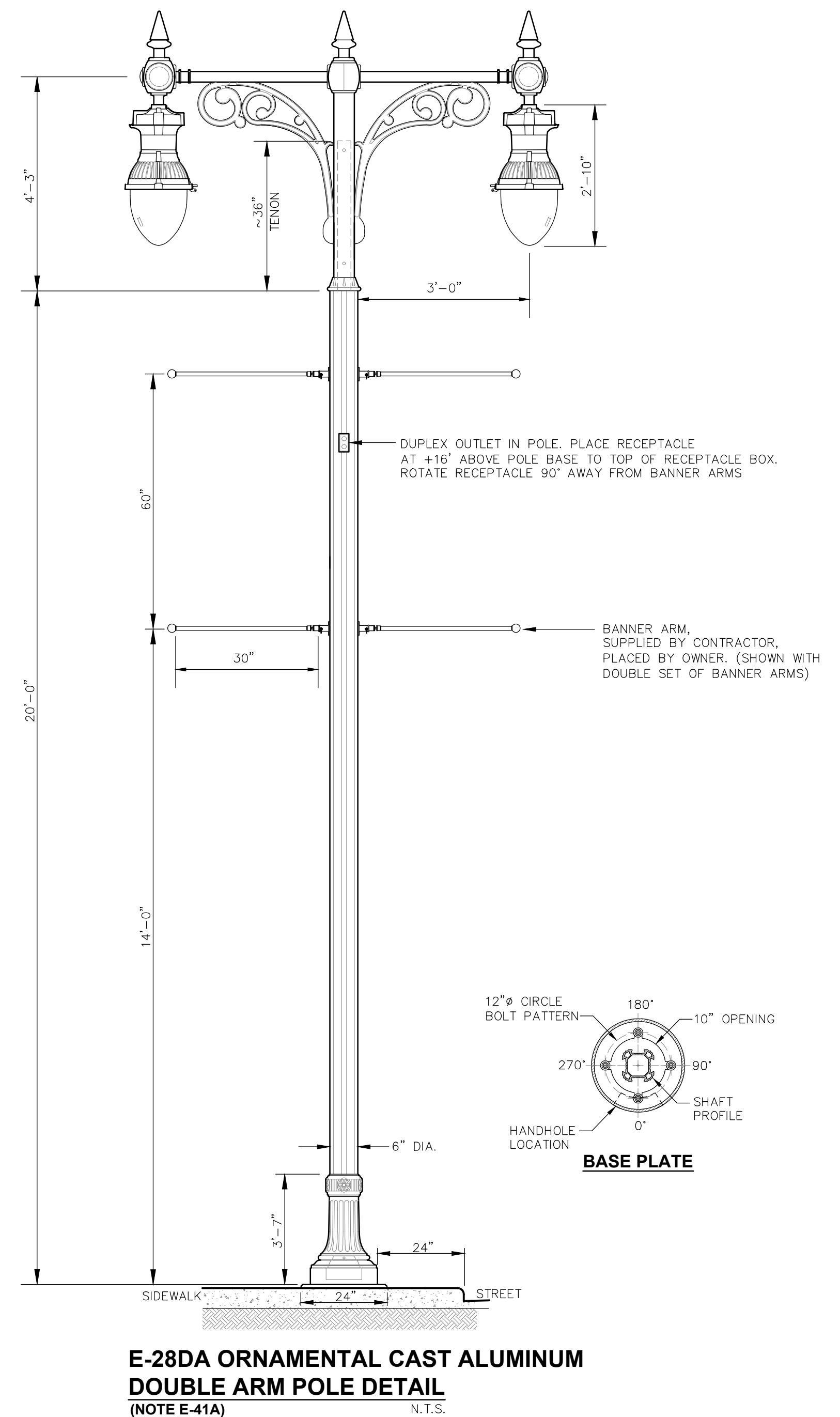
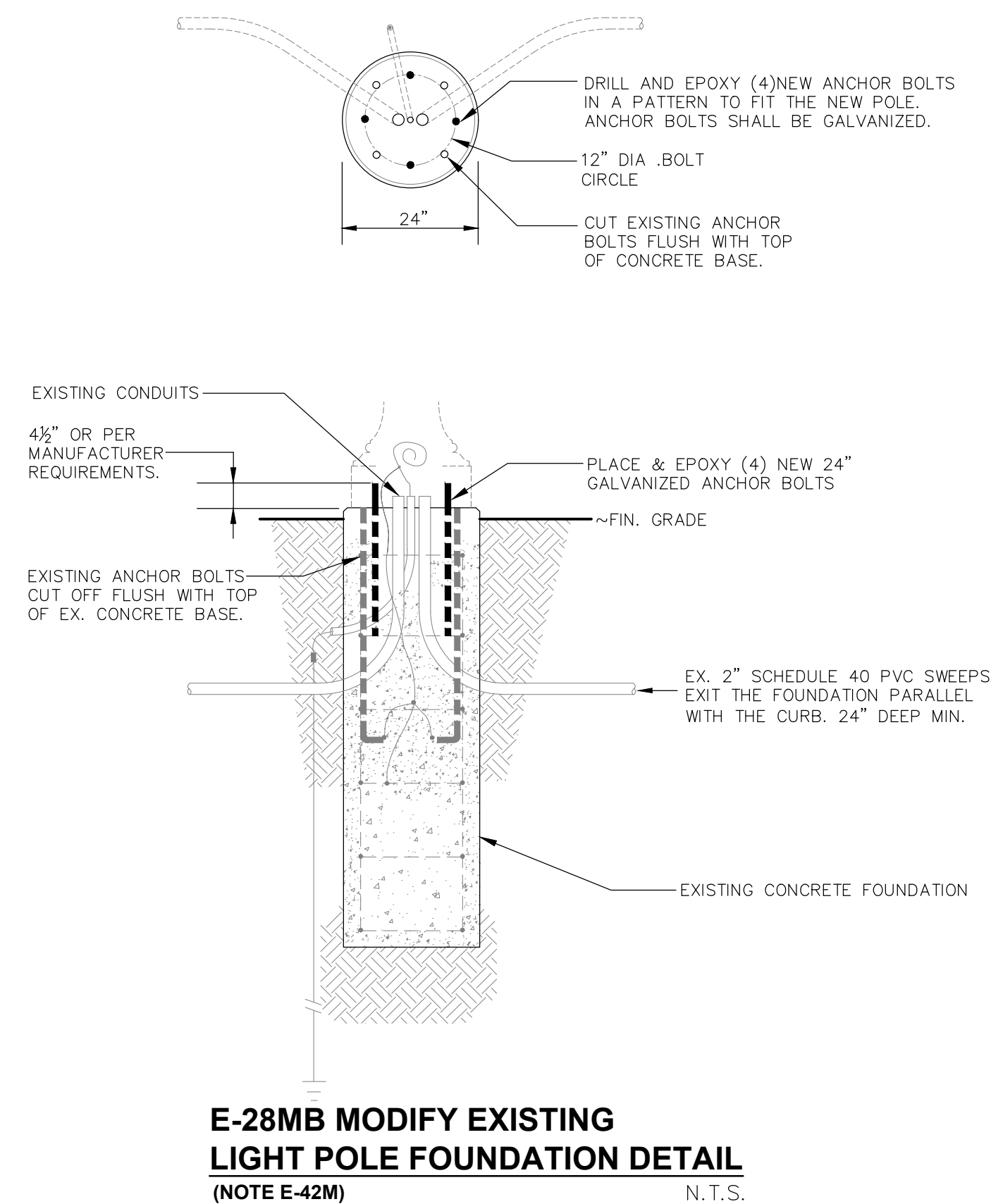
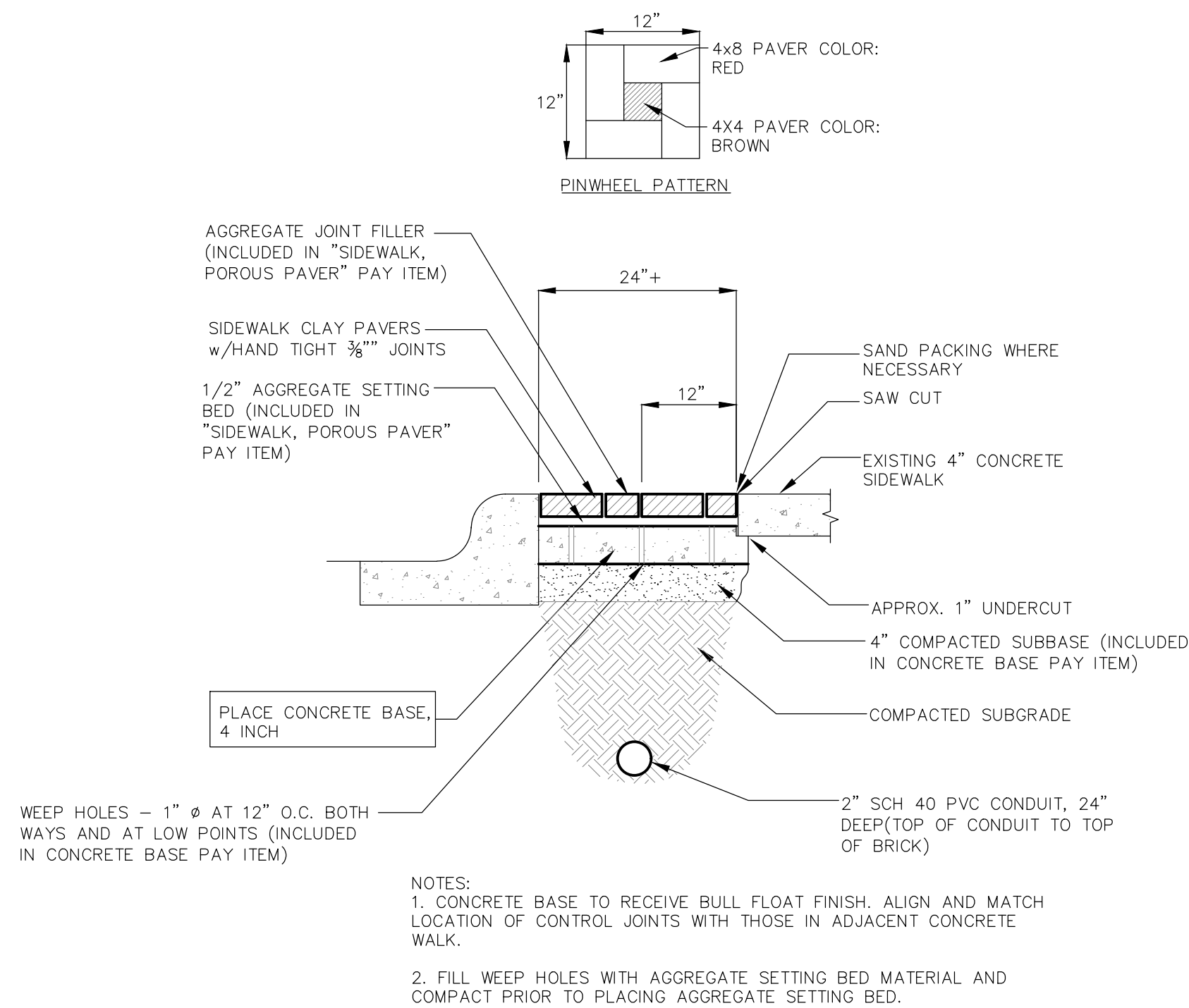
90% REVIEW

- | | |
|-------------|---|
| E32 | PLACE CONDUCTOR, (4) #6 CU U.S.E. 600V INSULATION (763 FT. REQUIRED THIS SHEET) |
| E41A | PLACE STREET LIGHTING POLE, ORNAMENTAL, (2) 242W LED LUMINAIRES (DETAIL E-28DA) (8 EACH REQUIRED THIS SHEET) |
| E42B | PLACE CONCRETE BASE FOR STREET LIGHTING POLE (DETAIL E-28A) (8 EACH REQUIRED THIS SHEET) |
| E69 | PLACE CONDUIT, DIRECT BURIED, SCHEDULE 40 PVC, (2) 2 INCH (21 FT. REQUIRED THIS SHEET) |
| E70 | PLACE CONDUIT, DIRECT BURIED, SCHEDULE 40 PVC, (1) 2 INCH (DETAIL E-99) (611 FT. REQUIRED THIS SHEET) |
| E89 | CONDUIT(S) CONNECT TO EXISTING (6 EACH REQUIRED THIS SHEET) |
| EDB | BORE UNDER TREE BASE. (56 FT. REQUIRED THIS SHEET) |
| LIR | LOCATE, INTERCEPT, AND RELOCATE EXISTING 2" PVC TO NEW POLE BASE. (1 EACH REQUIRED THIS SHEET) |
| TS | PLACE SALVAGED SIGNALS AND RECONNECT (3 EACH REQUIRED THIS SHEET) |

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STREET LIGHTING

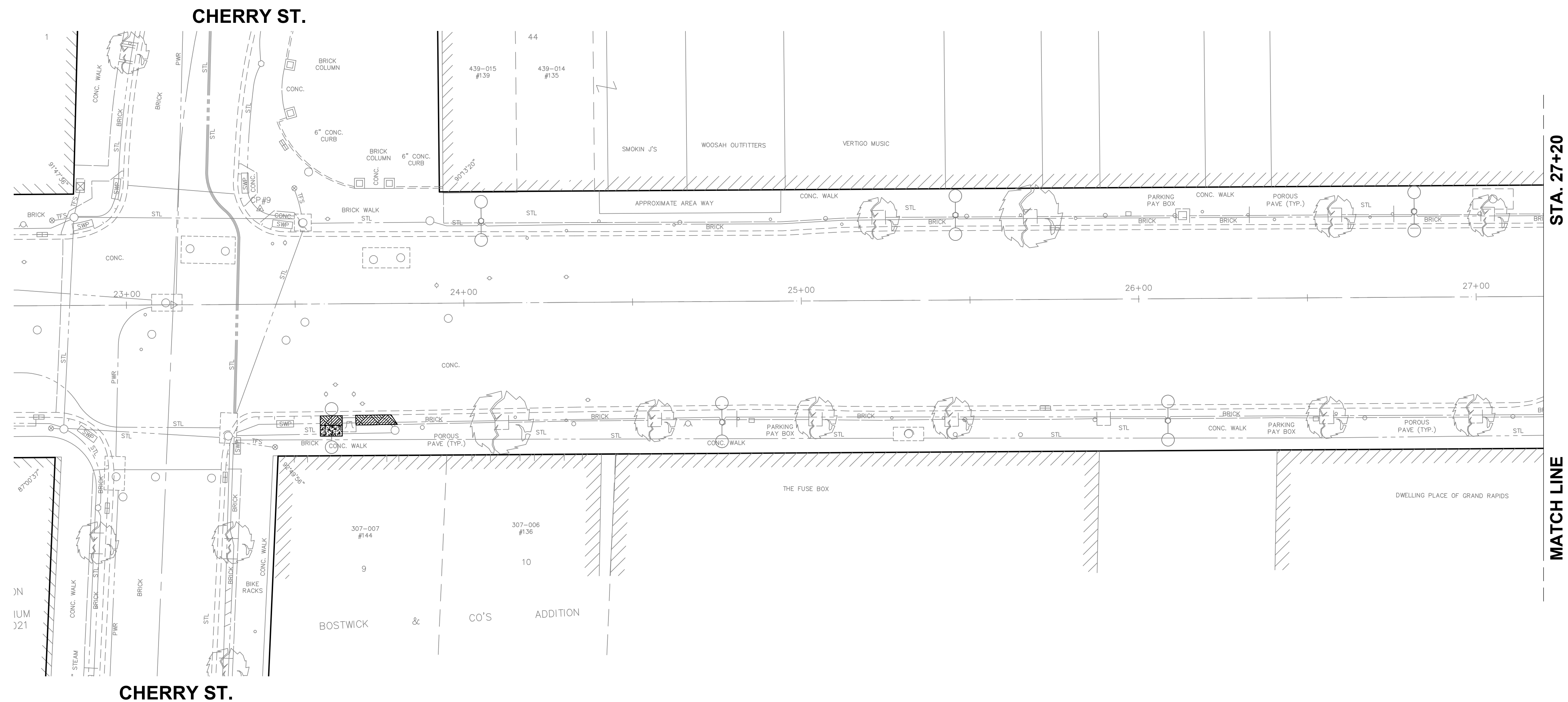
REV. NO.	DESCRIPTION
DESIGNED BY:	Geotech, Inc. <i>Engineered Systems</i> 616.949.3340 info@geotech-inc.com 616.949.8234-FAX www.geotech-inc.com 4900 Cascade Road, S.E., Grand Rapids, Michigan 49506
277-365.1	City of Grand Rapids Design, Development and Enterprise Services Engineering Department
STREET LIGHTING IMPROVEMENTS ON DIVISION AVE. FROM CHERRY STREET TO FULTON STREET	
Drawn by _____	GPF No. _____
Check: Field _____	Sheet No. _____
Check: Office _____	7 of 11



90% REVIEW

DETAILS

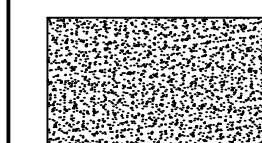
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DESIGNED BY:		 Geotech, Inc. <i>Engineered Systems</i> 616.949.3340 info@geotech-inc.com 616.949.6238 FAX www.geotech-inc.com 277-365.1 4900 Cascade Road, S.E., Grand Rapids, Michigan 49546	
City of Grand Rapids Design, Development and Enterprise Services Engineering Department			
STREET LIGHTING IMPROVEMENTS ON DIVISION AVE. FROM CHERRY STREET TO FULTON STREET			
Drawn by _____ Check: Field _____ Check: Office _____		GPF No. _____ Sheet No. _____	
		8 of X	



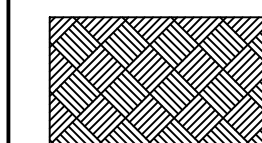
SCALES

PLAN: 1"=20'

SYMBOL LEGEND



PLACE
4" CONCRETE SIDEWALK, INCLUDING RAMPS.
(8 SQ. FT. REQUIRED THIS SHEET)



PLACE
SALVAGED BRICK PAVERS.
(DETAIL E-99)
(51 SQ. FT. REQUIRED THIS SHEET)

90% REVIEW

RECONSTRUCTION

REV. NO.	DESCRIPTION
DESIGNED BY:	 Geotech, Inc. <i>Engineered Systems</i> 616.949.5340 info@geotech-inc.com 616.949.8238-4737 www.geotech-inc.com #900 Cascade Road, S.W., Grand Rapids, Michigan 49546
277-365.1	City of Grand Rapids Design, Development and Enterprise Services Engineering Department
STREET LIGHTING IMPROVEMENT ON DIVISION AVE. FROM CHERRY STREET TO FULTON STREET	
Drawn by _____ Check: Field _____ Check: Office _____	GPF No. _____ Sheet No. _____

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OAKES ST.

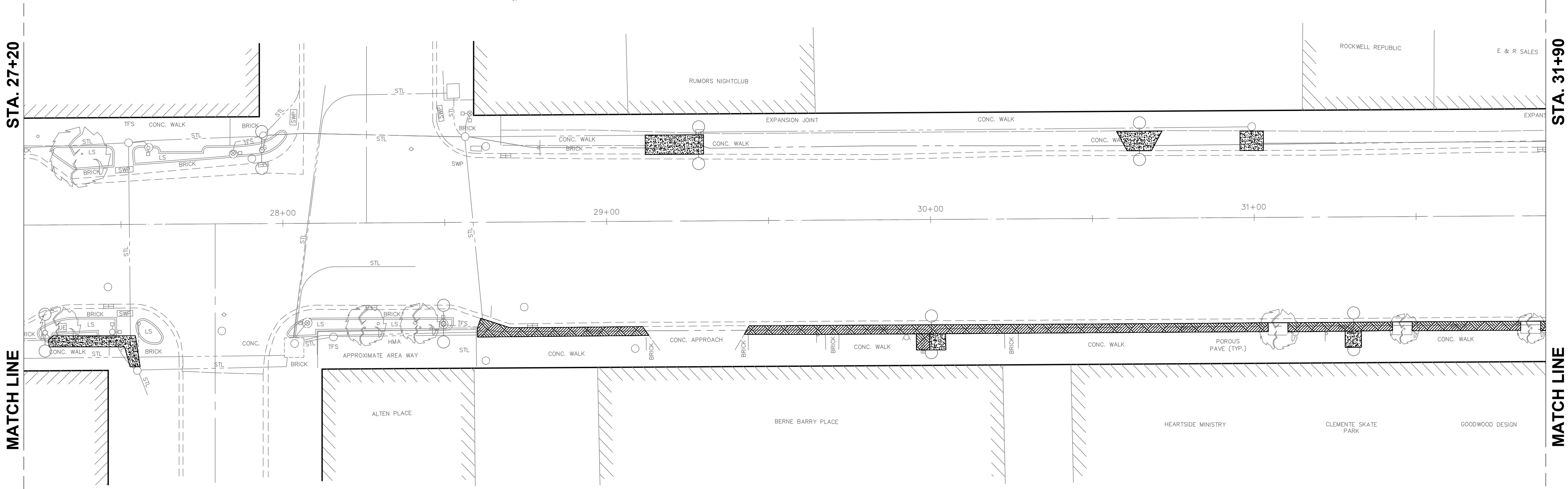
MOS EISLEYS

RUMORS NIGHTCLUB



SCALES

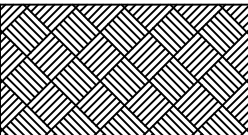
PLAN: 1"=20'



SYMBOL LEGEND



PLACE
4" CONCRETE SIDEWALK, INCLUDING RAMPS.
(381 SQ. FT. REQUIRED THIS SHEET)



PLACE
SALVAGED BRICK PAVERS.
(DETAIL E-99)
(801 SQ. FT. REQUIRED THIS SHEET)

OAKES ST.

90% REVIEW

RECONSTRUCTION

REV. NO.	DESCRIPTION
DESIGNED BY:	 Geotech, Inc. <i>Engineered Systems</i> 616.949.3340 info@geotech-inc.com 616.949.8228-FAX www.geotech-inc.com 4900 Cascade Road, S.E., Grand Rapids, Michigan 49506
277-365.1	City of Grand Rapids Design, Development and Enterprise Services Engineering Department
STREET LIGHTING IMPROVEMENTS ON DIVISION AVE. FROM CHERRY STREET TO FULTON STREET	
Drawn by _____	GPF No. _____
Check: Field _____	Sheet No. 10 of 11
Check: Office _____	

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) ARE APPROXIMATE. THE CITY OF GRAND RAPIDS ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

WESTON ST.

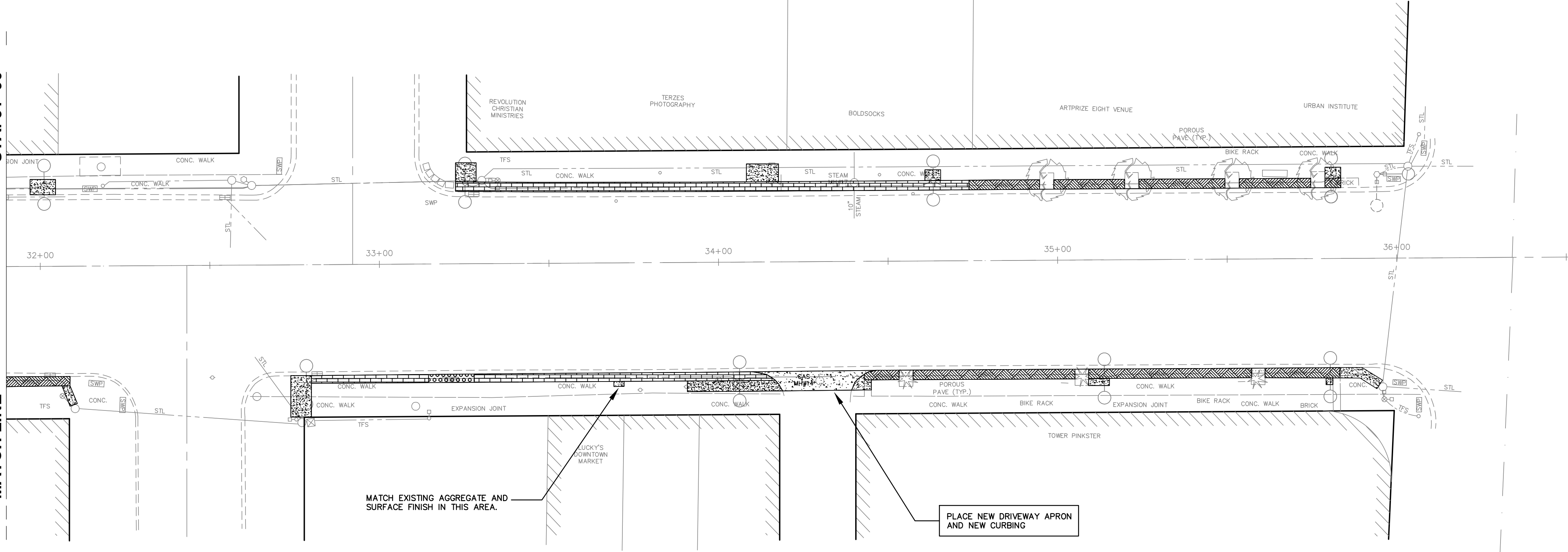
FULTON ST.



SCALES
PLAN: 1"=20'

STA. 31+90

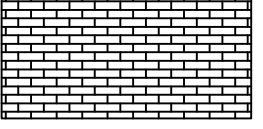
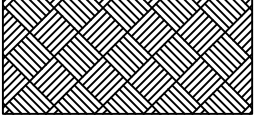
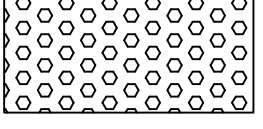
MATCH LINE



WESTON ST.

(FULTON ALLEY)

SYMBOL LEGEND

-  PLACE 6" CONCRETE DRIVEWAY.
(144 SQ. FT. REQUIRED THIS SHEET)
-  PLACE 4" CONCRETE SIDEWALK, INCLUDING RAMPS.
(361 SQ. FT. REQUIRED THIS SHEET)
-  PLACE NEW BRICK PAVERS.
(DETAIL E-99)
(721 SQ. FT. REQUIRED THIS SHEET)
-  PLACE SALVAGED BRICK PAVERS.
(DETAIL E-99)
(680 SQ. FT. REQUIRED THIS SHEET)
-  PLACE SIDEWALK RAMP.
(1 REQUIRED THIS SHEET)

90% REVIEW

RECONSTRUCTION

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Drawn by _____	GPF No. _____
Check: Field _____	Sheet No. 11 of 11
Check: Office _____	

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