SHEET NO. D3 PAVING DETAILS SHEET NO. PI UNIVERSITY AVENUE PLAN & PROFILE

SHEET NO. UI UTILITIES PLAN & PROFILE

SHEET NO. E1–E9 ELECTRICAL PLAN AND DETAILS

SHEET NO. SDD 9 C 12-9a & 9b WisDOT CONC BASE TYPE 13 DETAILS

SHEET NO. PMI PAVEMENT MARKING PLAN

SHEET NO. TCI-TC6 TRAFFIC CONTROL PLAN

# CITY OF MADISON

CITY ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS PLAN OF PROPOSED IMPROVEMENT

HILLDALE WAY - MAPLE TERRACE - UNIVERSITY AVENUE TRAFFIC SIGNAL ASSESSMENT DISTRICT

> CITY PROJECT NO. 45852 CONTRACT NO. 8128

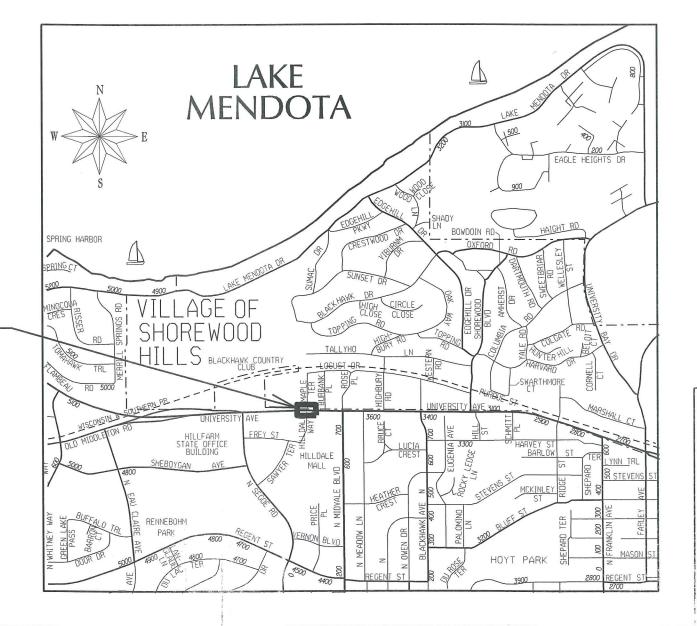
#### CONVENTIONAL SIGNS FIELD VERIFY ALL UTILITY LOCATIONS STORM SEWER SANITARY SEWER WATEROVERHEAD ELECTRIC POWER POLE ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD COMBUSTIBLE FLUIDS

# PROJECT LOCATION

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.

SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 1.50%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%

EARTH WORK SUMMARY:

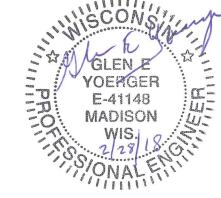


PUBLIC IMPROVEMENT PROJECT APPROVED

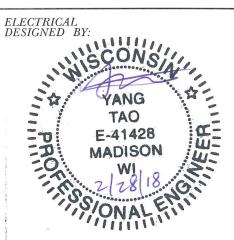
FEBUARY 6, 2018

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:



STORM SEWER DESIGNED BY:



GEOMETRICS & PAVEMENT MARKINGS

HILLDALE WAY - MAPLE TER - UNIVERSITY AVE SHEET NO. TRAFFIC SIGNAL ASSESSMENT DISTRICT PROJECT NO. 45852 DETAILS CITY OF MADISON TYPICAL SECTIONS

CONCRETE SIDEWALK -5-INCH (TYP.)

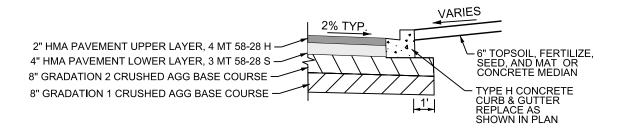
Œ R/W R/W R/W VARIES 145'-151' MEDIAN VARIES 10'-31' R.L VAR. 4'-8' 11' TYP. 11' TYP. 11' TYP. VARIES 0'-11', VARIES 0'-11', 11' TYP. 11' TYP. 11' TYP. VAR. 4'-8' BIKE LANE LEFT TURN TRAVEL LANE TRAVEL LANE | TRAVEL LANE | BIKE SIDEWALK\* TRAVEL LANE TRAVEL LANE TRAVEL LANE LEFT **TERRACE** TERRACE SIDEWALK\* TURN LANE LANE LANE POINT REFERRED TO ON PROFILE - EB CROWN LINE /-WB CROWN LINE VARIES **VARIES** VARIES 4% NORM **VARIES** 4% NORM VARIES **VARIES** 2% TYP. 2% TYP. 2% TYP. 2% TYP. TOPSOIL, FERTILIZE, SEED, AND MAT OR CONCRETE MEDIAN CONCRETE SIDEWALK 5-INCH (TYP.) 2" BASE AGGREGATE DENSE 3/4-INCH (TYP.) 1' TYPE H CONCRETE -TYPE H CONCRETE CURB & GUTTER REPLACE AS SHOWN IN PLAN CURB & GUTTER REPLACE AS TYPE H CONCRETE TYPE H CONCRETE -CURB & GUTTER REPLACE AS SHOWN IN PLAN EXISTING BASE AGGREGATE 6" TOPSOIL, FERTILIZE, SEED, AND MAT ALL DISTURBED AREAS CURB & GUTTER REPLACE AS DENSE 11/4-INCH TO REMAIN SHOWN IN PLAN SHOWN IN PLAN 6" TOPSOIL, FERTILIZE, SEED, AND MAT ALL DISTURBED AREAS - EXISTING BASE AGGREGATE DENSE 3-INCH TO REMAIN EXISTING 6" HMA PAVEMENT\*\* (TYP.) 2" BASE AGGREGATE DENSE 3/4-INCH (TYP.) \* EXISTING CONCRETE SIDEWALK TO REMAIN (2% MAX) OR NEW CONCRETE SIDEWALK 5-INCH (1.5% TYP.)

OVER 2" BASE AGGREGATE DENSE ¾ INCH

\*\* SEE SHEET D-3, PAVEMENT DETAILS FOR EXCAVATION LIMITS AND PAVEMENT REMOVAL AND RESTORATION DETAILS

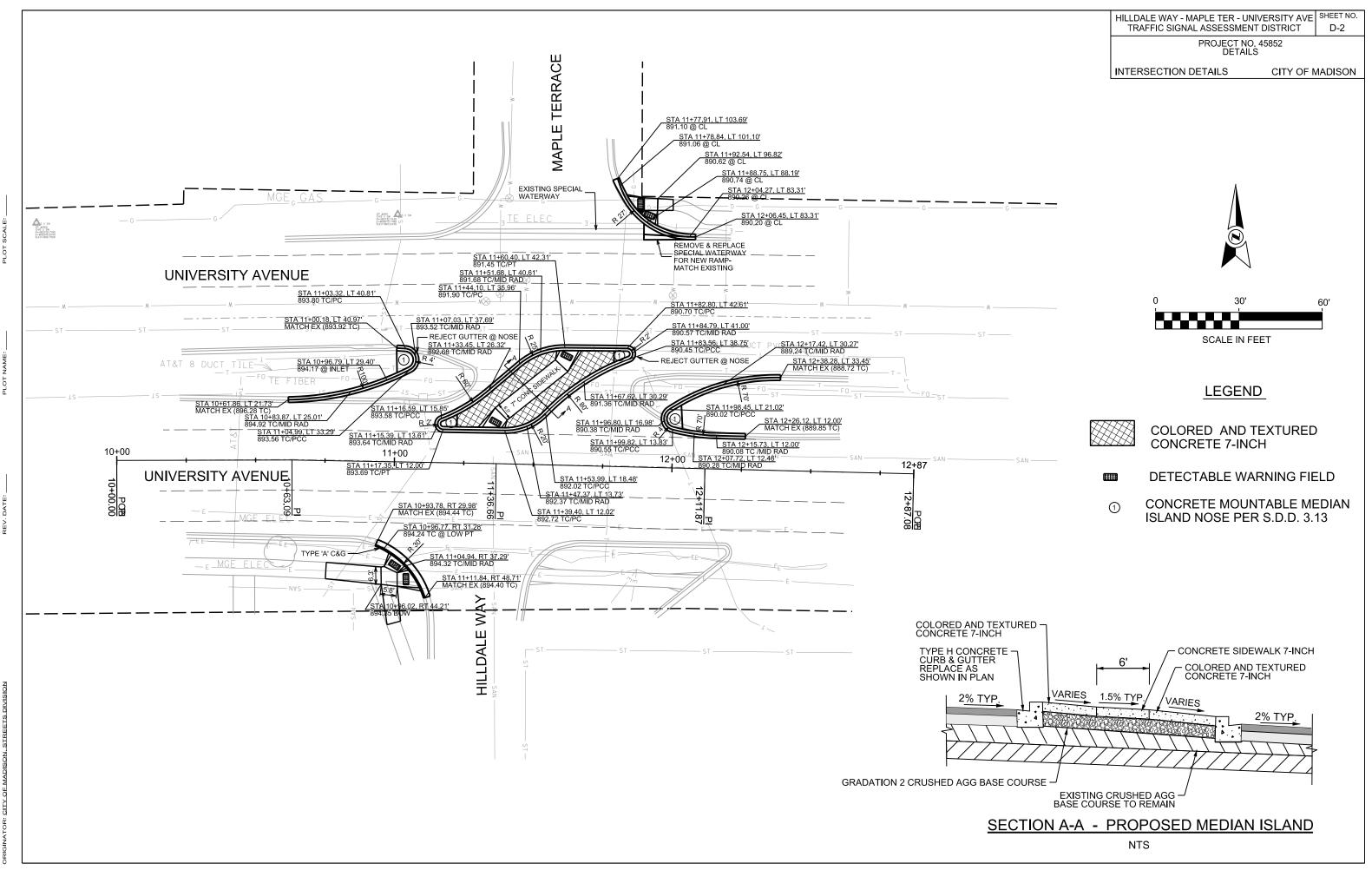
#### PROPOSED TYPICAL SECTION - UNIVERSITY AVENUE

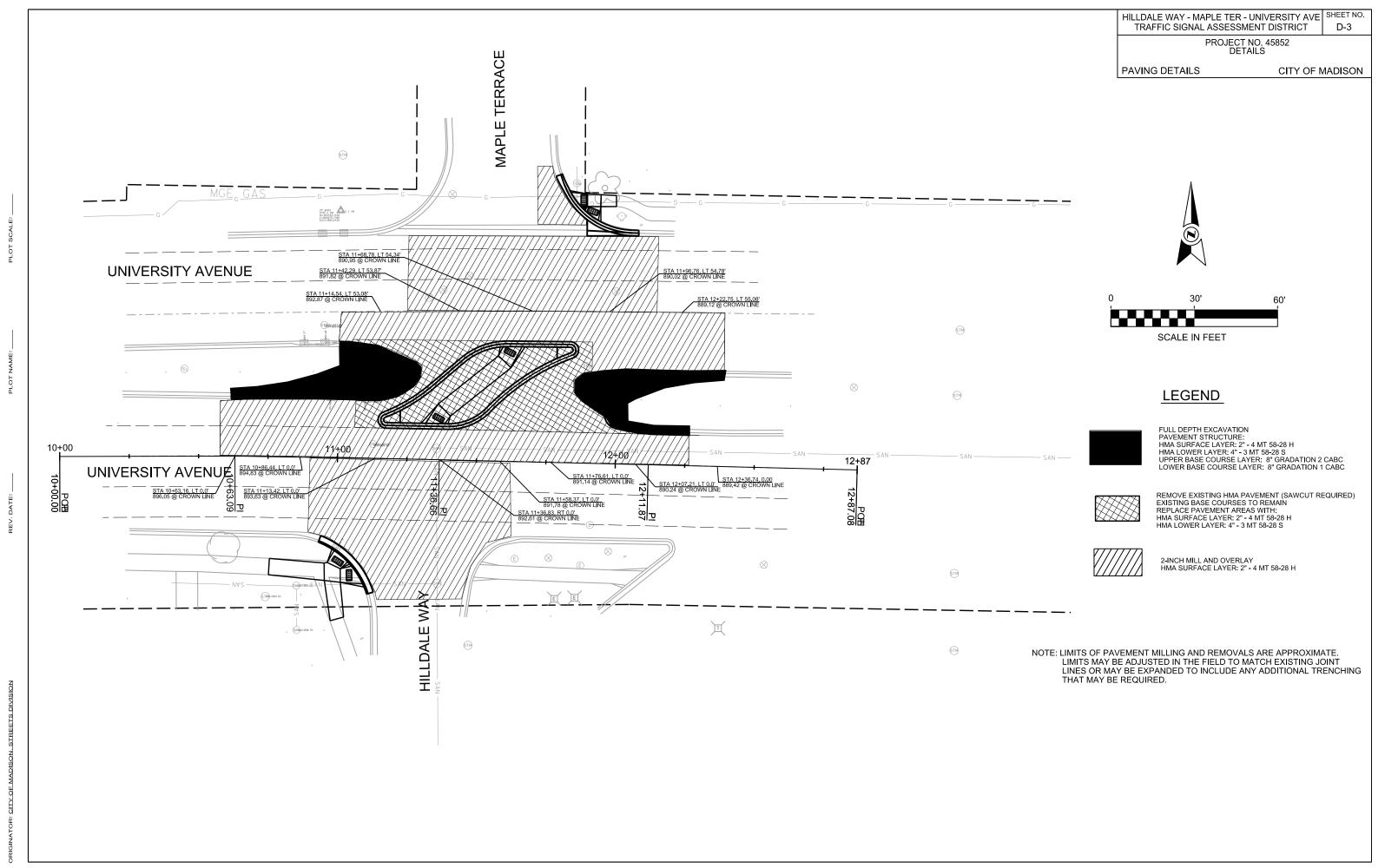
STA 10+00 TO STA 12+87

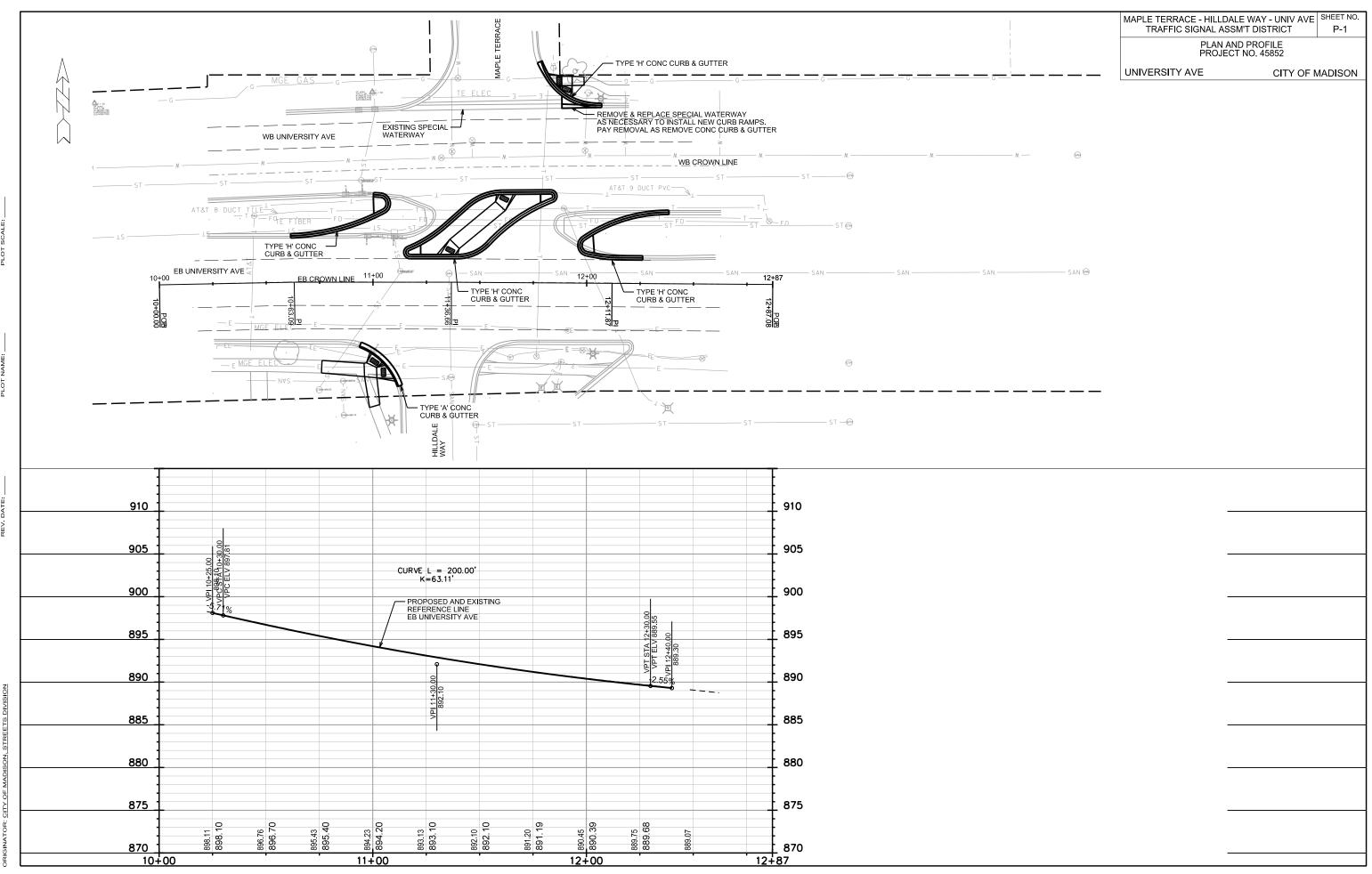


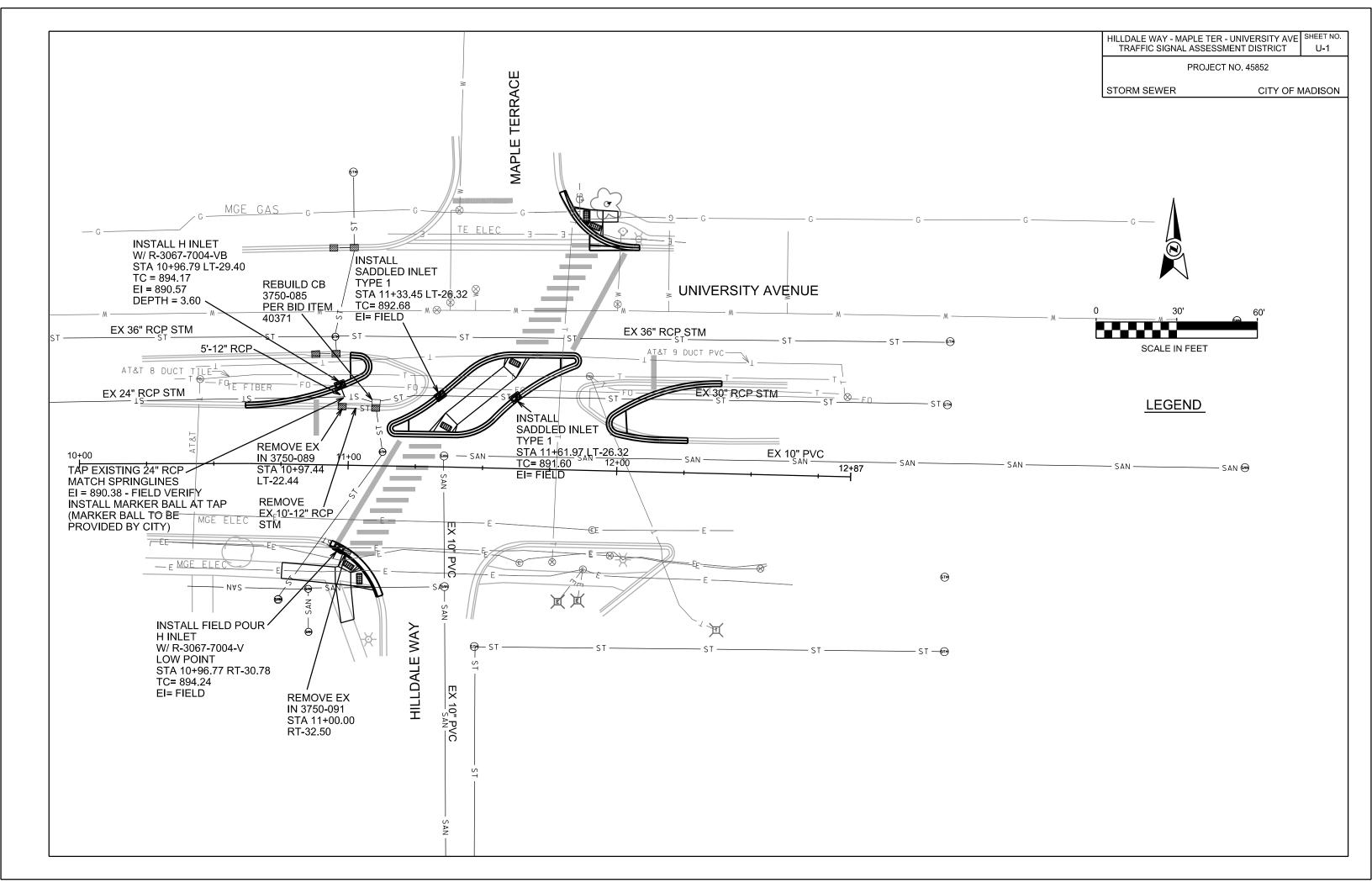
#### PROPOSED TYPICAL SECTION - UNIVERSITY AVENUE

PROPOSED TURN LANES IN FULL DEPTH EXCAVATION AREAS AS SHOWN ON SHEET D-3 - PAVEMENT DETAILS NTS









#### **GENERAL ELECTRIC NOTES:**

- 1. ALL LOCATIONS ARE APPROCIMATE. THE TRAFFIC ENGINEER SHALL APPROVE FINAL LOCATIONS, INCLUDING SETBACK, IN THE FIELD AFTER CONTRACTO SURVEYS STAKING. THE CONTRACTOR SHALL NOTIFY JERRY SCHIPPA (608 267 1969) CITY TRAFFIC ENGINEERING, AT LEAST 24-HOURS IN ADVANCE OF NEEDING CONDUIT OR BASE LOCATIONS MARKED.
- 2. BASES INSTALLED IN TERRACE SHALL BE 4' FROM FACE OF CURB UNLESS OTHERWISE NOTED. SUJECT TO NOTE 1 ABOVE.
- 3. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH "CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2018 EDITION" AND ALL ADDENDUMS THERETO. ALL CONDUIT SHALL BE PVC, SCHEDULE 80 UNDER PAVEMENT OR SCHEDULE 40 OTHERWISE. PULL WIRE REQUIRED AS PER STANDARD SPECIFICATIONS.
- 4. THE CONTRACTOR SHALL CALL TROY VANT (608 266-9031) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HOURS IN ADVANCE OF POURING BASES. INSTALLING HANDHOLES OR BURYING CONDUIT TO ARRANGE FOR INSPECTION.
- 5. ANY WORK COMPLETED WITHOUT INSPECTION IS SUBJECT TO REJECTION.
- 6. EXISTING STREETLIGHTS SHALL BE IN SERVICE EACH AND EVERY NIGHT.
- 7. TRAVEL LANE CLOSURES SHALL ONLY OCCUR ON WEEKDAYS BETWEEN 8:30 AM AND 4:00 PM AND ANYTIME ON WEEKENDS. ALL LANE CLOSURES OF UNIVERSITY AVENUE SHALL REQUIRE AN ELECTRONIC, FLASHING ARROWBOARD, FLASHING ARROWBOARD COST INCLUDED IN BID ITEM 10701 TRAFFIC CONTROL
- 8. ALL SIGNING AND BARRICADING SHALL CONFORM WITH THE FEDERAL HIGHWAYS ADMINISTRATIONS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND THE CITY OF MADISON STANDARDS FOR SIDEWALK AND BIKEWAY CLOSURES AND THE STATE OF WISCONSIN STANDARD DETAIL DRAWING S.D.D. 1503.
- 9. THE CONTRACTOR SHALL ARRANGE FOR PICK UP OF THE FOLLOWING CITY FURNISHED MATERIALS, WHICH SHOULD BE ARRANGED FOR PICKUP BY CALLING DENNIS ROWE, TRAFFIC ENGINEERING SHOP, (608 266-9034) 1120 SAYLE ST., AT LEAST 24-HOURS PRIOR TO NEEDING MATERIALS:
  - ANCHOR BOLTS FOR TYPE G BASE ANCHOR BOLTS FOR LB-3 BASE - (16) 3/4" BY 19" 1" BY 40"
  - ANCHOR BOLTS FOR LB-8 BASE 1 1/4" BY 48"
- 10. THE CONTRACTOR SHALL PROVIDE ANCHOR BOLTS FOR TYPE 13 BASES.
- 11. THE CONTRACTOR SHALL INSTALL LOOP LEED DUCT CONDUITS PRIOR TO CITY CREWS INSTALLING LOOP DETECTOR WIRES.
- 12. NOFITY TOM BODENSTEIN (608 266-4767) A MINIMUM OF 24 HOURS AND MAXIMUM OF 48 HOURS PRIOR TO FINAL BASE COURSE COMPACTION AND TRIMMING FOR CITY CREWS TO INSTALL LOOP DETECTION WIRES IN THE BASE COURSE PRIOR TO PLACEMENT OF ASPHALTIC PAVEMENT.
- 13. CONTRACTOR SHALL CONTACT TROY VANT (608 266-9031) AT LEAST 24 HOURS PRIOR TO EXCAVATING IN THE MEDIAN TO COORDINATE MOVING THE EXISTING FIBER OPTIC CABLE BEING RE-ROUTED TO AROUND THE PLANNED INLETS AND BASES. THE CONTRACTOR SHALL NOT DISTURB EXISTING FIBER OPTIC CABLES DURING THE PROJECT.

PROJECT: 45852 HILLDALE WAY - MAPLE TER. - UNIVERSITY AVE. TRAFFIC SIGNAL

ELECTRICAL PLANS

HILLDALE WAY - MAPLE TERRACE - UNIVERSITY AVENUE

CITY OF MADISON

SHEET NO E-1

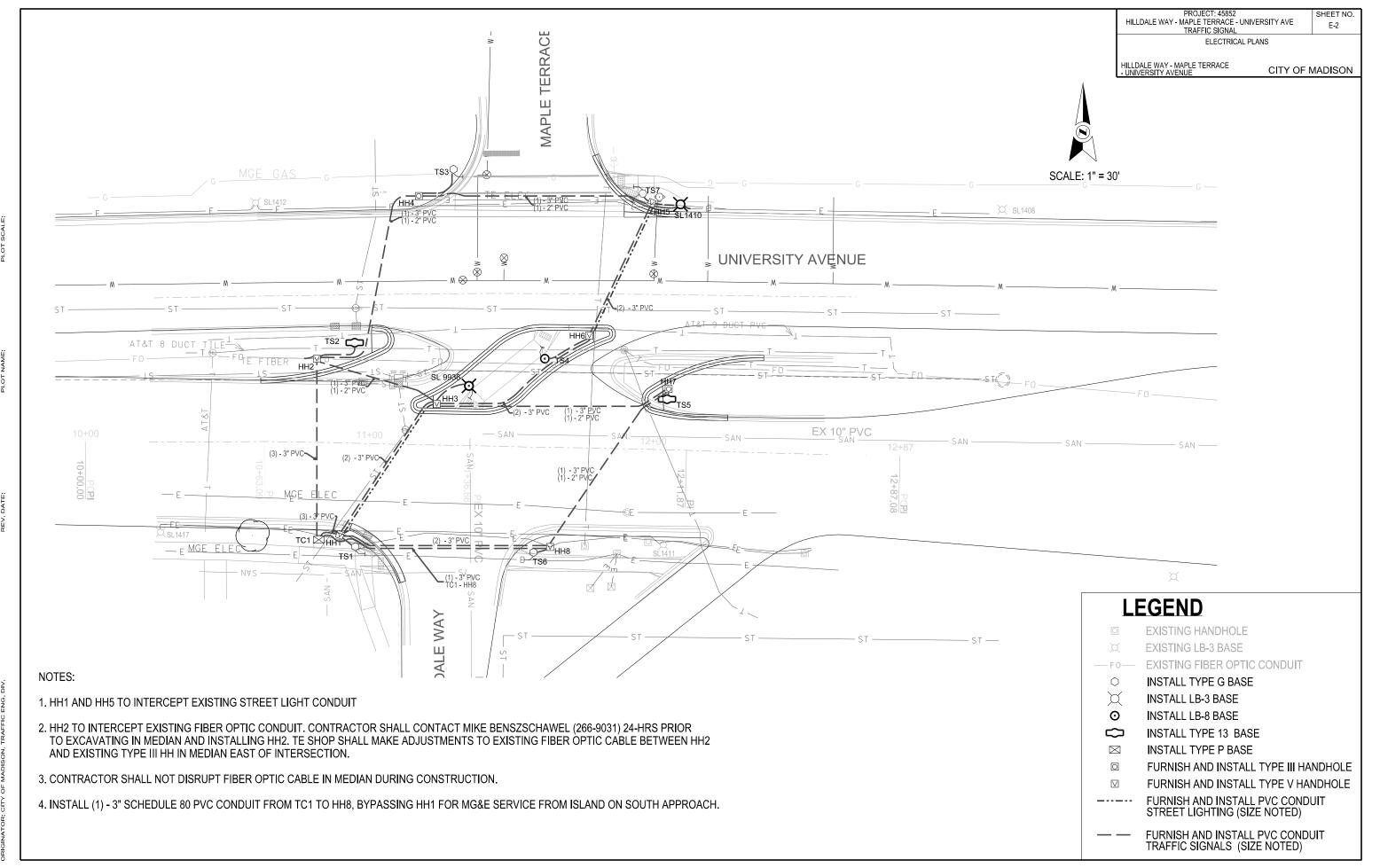
#### **LEGEND**

- EXISTING HANDHOLE
- EXISTING LB-3 BASE
- EXISTING FIBER OPTIC CONDUIT — F O —
- 0 **INSTALL TYPE G BASE**
- X **INSTALL LB-3 BASE**
- 0 **INSTALL LB-8 BASE**
- INSTALL TYPE 13 BASE
- INSTALL TYPE P BASE  $\boxtimes$
- FURNISH AND INSTALL TYPE III HANDHOLE
- $\nabla$ FURNISH AND INSTALL TYPE V HANDHOLE
- FURNISH AND INSTALL PVC CONDUIT STREET LIGHTING (SIZE NOTED)
- FURNISH AND INSTALL PVC CONDUIT

TRAFFIC SIGNALS (SIZE NOTED)

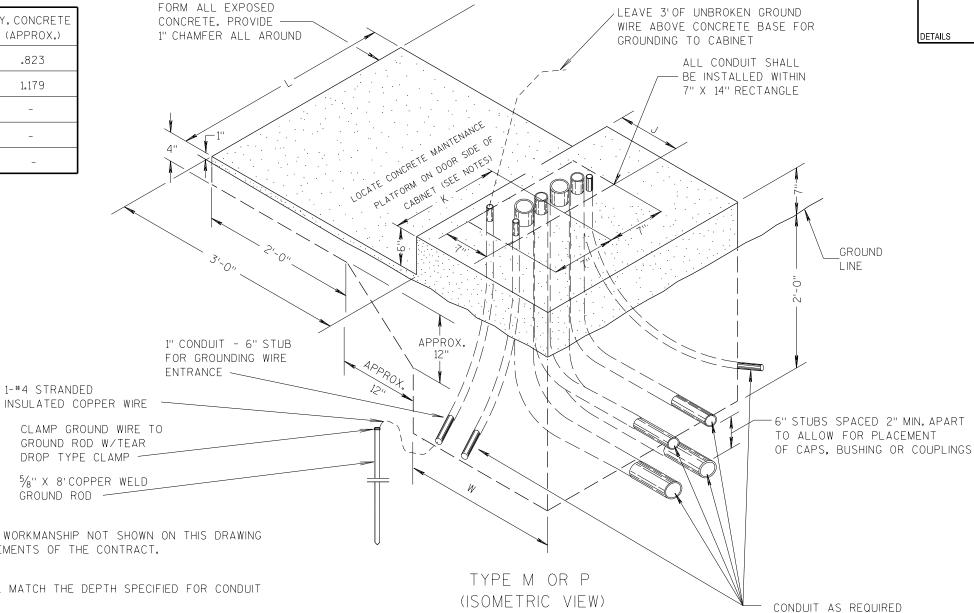
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CONTROL CABINET		DIMEN	12101	C.Y. CONCRETE	
BASE TYPE	L	W	J	K	(APPROX.)
TYPE M	40"	30"	12''	20"	.823
TYPE P	48''	30"	16''	24"	1.179
TYPE M MODIFIED	-	-	-	-	-
TYPE P MODIFIED	-	-	-	-	-
TYPE OTHER			-		-



PROJECT: 45852 HILLDALE WAY - MAPLE TER. - UNIVERSITY AVE. TRAFFIC SIGNAL

ELECTRICAL PLANS

SHEET NO. E-3

CITY OF MADISON

#### GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL CONDUIT SHALL BE PVC, SCHEDULE 40

DEPTH OF CONDUIT EXITING THE BASE SHALL MATCH THE DEPTH SPECIFIED FOR CONDUIT INSTALLATION.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL.

MAINTENANCE PLATFORM SHALL NOT BE INSTALLED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

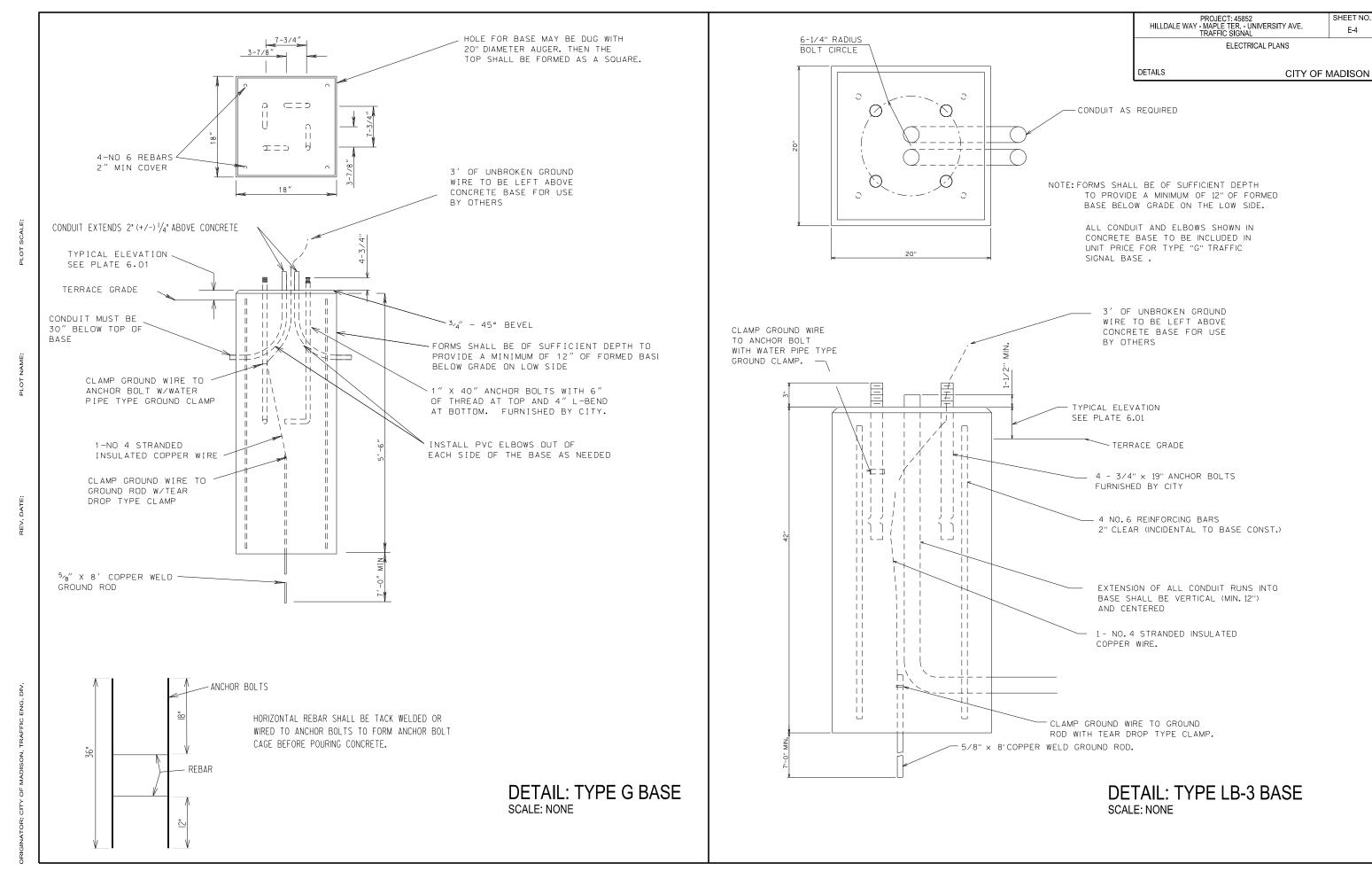
CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MINIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUITS SHALL EXIT THE BASE IN THE DIRECTION OF THE STRUCTURE IT IS TERMINATING INTO.

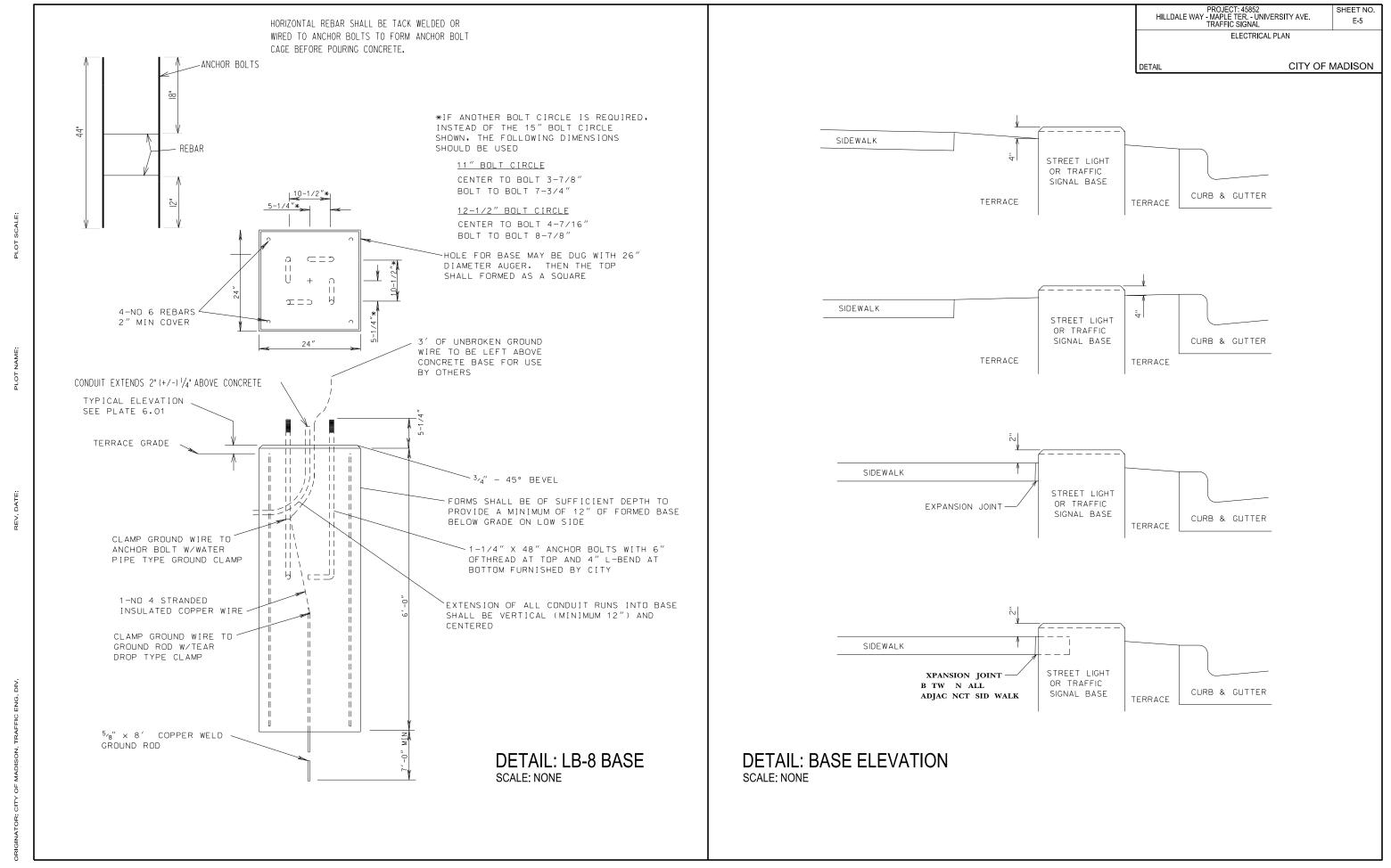
MAINTENANCE PLATFORM SIZE MAY VARY ON ACCOUNT OF CONDITIONS. VERIFY THE MAINTENANCE PLATFORM SIZE WITH ENGINEER PRIOR TO POURING BASE.

### CONCRETE CONTROL CABINET BASES

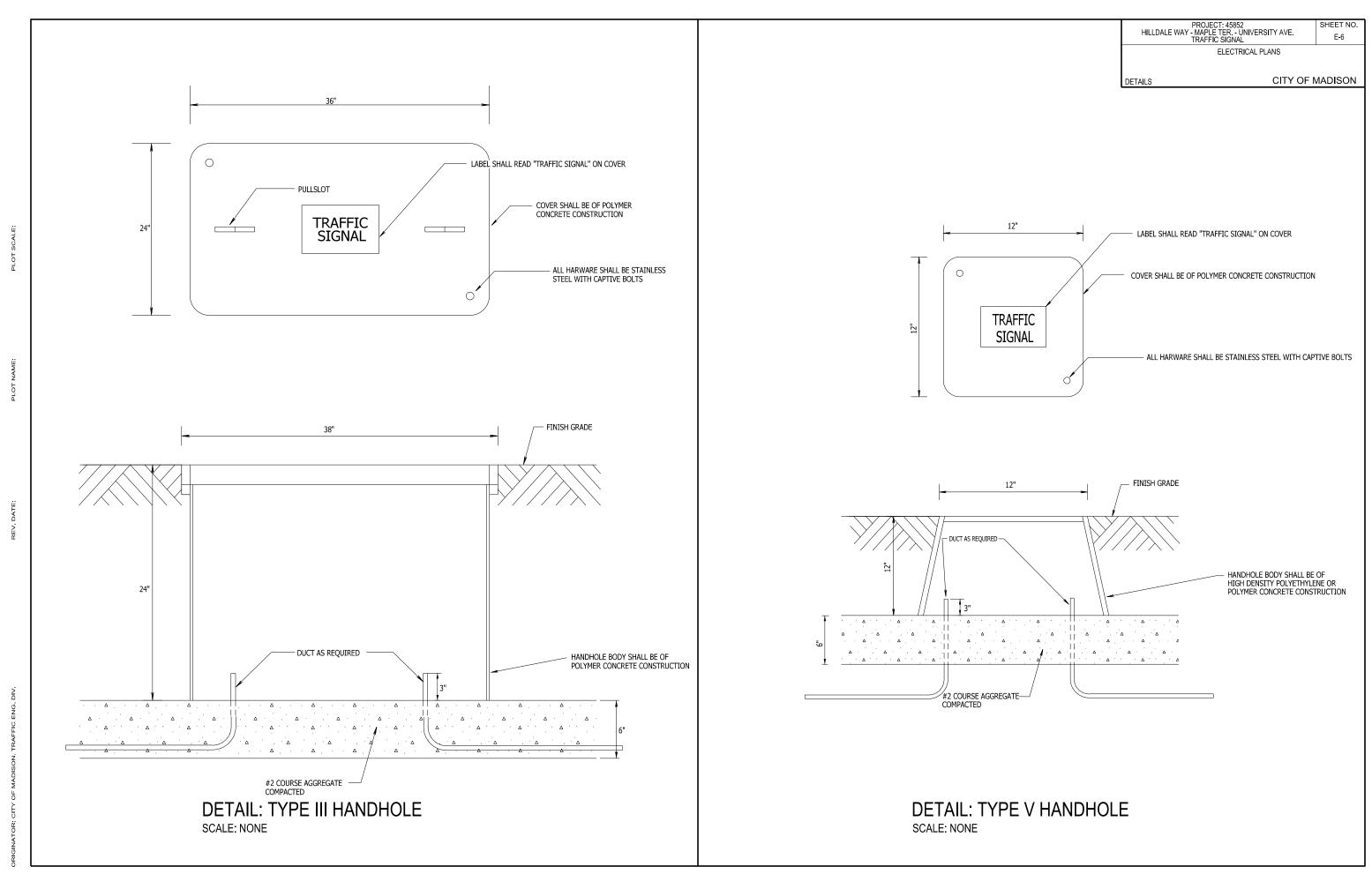
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ELECTRICAL PLANS

CITY OF MADISON MISC QUANTITIES

STREET LIGHTING CONDUIT (45852)

60231 60230 60532 CONDUIT RIGID NONMETALLIC FURNISH & INSTALL SCHEDULE 40 SCHEDULE 80 3 #4 & 1 #8 WIRES

2-INCH BY 2-INCH IN EXISTING OR CONTRACTOR INSTALLED CONDUIT

**OPEN TRENCH** 

19

CATEGORY TO LF LF COMMENTS FROM LF HH1 HH3 57 114 1-2" HH5 SL1410 10 10 1-2" HH5 HH6 52 52 1-2" HH1 EXISTING 4 1-2" 120 1-2" HH1 **EXISTING** SL1410 EXISTING 5

113

**ELECTRICAL PULLBOXES (45852)** 

60702 60708 CONSTRUCT CONSTRUCT ELECTRICAL ELECTRICAL

HANDHOLE TYPE I HANDHOLE TYPE V

CATEGORY	STATION	OFFSET	DESCRIPTION	EACH	EACH
0030/0040	STA 10+90.4 EB UNIVERSITY	32' R	HH1	-	1
	STA 10+81.1 EB UNIVERSITY	30' L	HH2	-	1
	STA 11+22 EB UNIVERSITY	14.5' L	HH3	-	1
	STA 11+16 EB UNIVERSITY	87' L	HH4	1	-
	STA 11+98 EB UNIVERSITY	87.5' L	HH5	-	1
	STA 11+76.75 EB UNIVERSITY	39' L	HH6	=	1
	STA 12+05 EB UNIVERSITY	21' L	HH7	1	=
	STA 11+64.75 EB UNIVERSITY	35' R	HH8	1	-

PROJECT 45852 TOTALS 3 5

#### TRAFFIC SIGNAL CONDUIT (45852)

CONDU	JIT RIGID	NONMETA	LLIC

296

				SCHEDULE 40			SCH	EDULE 80			
			60231	60223	60224	60229	60230	60221	60222	<u>60241</u>	
										GOPHER RACEWAY	
			2-INCH BY	3-INCH BY	3-INCH	2-INCH BY	2-INCH	3-INCH BY	3-INCH	FOR ELECTRICAL CONDUI	Т
				OPEN TRENCH		OPEN TRENCH		OPEN TRENCH		OR CABLE-IN-DUCT	
ATEGORY	FROM	TO	LF	LF	LF	LF	LF	LF	LF	LF	COMMENTS
0040	TC1	HH1	-	9	18	-	-	-	-	-	3-3"
	TC1	HH2	-	-	-	-	-	64	64	33	2-3"
	HH1	TS1	5	-	-	-	-	-	-	-	1-2"
	HH1	HH8	-	-	-	-	-	75	75	52	2-3"
	HH1	HH3	-	-	-	-	-	59	59	49	2-3"
	HH2	HH3	-	-	-	-	44	44	-	-	1-3", 1-2"
	HH2	TS2	15	-	-	-	_	-	_	-	1-2"
	HH2	HH4	-	-	-	-	80	80	-	31	1-3", 1-2"
	HH4	TS3	-	-	-	-	18	-	-	-	1-2"
	HH4	HH5	-	-	-	-	82	82	-	67	1-3", 1-2"
	HH5	HH6	-	-	-	-	-	52	52	35	2-3"
	HH6	TS4	-	-	-	15	-	-	-	-	1-2"
	HH6	HH3	-	-	-	-	_	63	63	-	2-3"
	HH3	SL9936	-	-	-	18	-	-	_	-	1-2"
	HH3	HH7	-	-	-	-	84	84	-	-	1-3", 1-2"
	HH7	TS5	4	-	-	-	-	-	-	-	1-2"
	HH7	HH8	-	-	-	-	71	71	-	50	1-3", 1-2"
	HH8	TS6	5	-	-	-	-	-	-	-	1-2"
	HH5	TS7	5	-	-	-	-	-	-	-	1-2"
	HH2	EXISTING	5	-	-	-	-	-	-	-	*
	HH2	EXISTING	5	-	-	-	-	-	-	-	*
	HH5	<b>EXISTING</b>	10	-	-	-	-	-	_	-	*
	TC1	HH8	-	-	-	-	-	-	80	-	1-3"
DDO IECT	Г 45852 Т	OTALS	54	9	18	33	379	674	393	317	

DATE: \$\$...plottlngdate...\$\$

**PROJECT 45852 TOTALS** 

E-8

SHEET NO.

CITY OF MADISON MISC QUANTITIES

STREET LIGHT BASES (45852)

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60	1	( )	١٠٧	
OU	-	u	J	

		60403					
					LED LUMINAIRE AND		
		CONCRETE			MOUNTING BRACKET	ELECTRICAL WIRE	
		BASE	30-FT,	BASE		LIGHTING, 14-3	
		TYPE LB-3	11 GAUGE	16-INCH	TYPE I	GROUNDED	COMMENTS
				STEEL			00
OFFSET	DESCRIPTION	EACH	EACH	EACH	EACH	LF	
86.8' L	SL1410	1	1	1	1	40	_
22.75' L	SL9936	1	1	1	2	40	
84.8' L	SL1412	-	-	-	1	-	
31.75' R	SL1417	-	-	-	1	-	
33.1' R	SL1411	-	-	-	1	-	
2 TOTALS		2	2	2	6	80	

## **TRAFFIC SIGNAL BASES (45852)**

				60413 CONCRETE BASE TYPE P	60411 CONCRETE BASE TYPE G	60407 CONCRETE BASE TYPE LB-8	90100 CONCRETE BASES TYPE 13	
CATEGORY	STATION	OFFSET	DESCRIPTION	EACH	EACH	EACH	EACH	COMMENTS
0100	STA 10+95.75 EB UNIVERSITY	36.5' R	TS1	-	1	-	-	
	STA 10+94.25 EB UNIVERSITY	35.75' L	TS2	-	-	-	1	
	STA 11+28 EB UNIVERSITY	97.4' L	TS3	-	1	-	-	
	STA 11+61.33 EB UNIVERSITY	31.25' L	TS4	-	-	1	-	
	STA 12+04.75 EB UNIVERSITY	18.1' L	TS5	-	-	-	1	
	STA 11+58.8 EB UNIVERSITY	37' R	TS6	-	1	-	-	
	STA 11+94.5 EB UNIVERSITY	90' L	TS7	-	1	-	-	
	STA 10+82.8 EB UNIVERSITY	34' R	TC1	1	-	-	-	
	PROJECT 4585	2 TOTALS		1	4	1	2	

CATEGORY

0030

STATION

STA 12+7.75 EB UNIVERSITY

STA 11+36.5 EB UNIVERSITY

STA 10+58.5 EB UNIVERSITY

STA 10+26.5 EB UNIVERSITY

STA 112+04.5 EB UNIVERSITY

PROJECT 45852 TOTALS

PROJECT: 45852 HILLDALE WAY - MAPLE TER. - UNIVERSITY AVE TRAFFIC SIGNAL ELECTRICAL PLANS SHEET NO. E-9

MISC. QUANTITIES CITY OF MADISON

#### **TRAFFIC SIGNAL EQUIPMENT (45852)**

		(SPV.0060.48) OPTICAL	(SPV.0060.41)	(SPV.0060.42) SIGNAL HEADS	(SPV.0060.43)	(SPV.0060.44) BACK	(SPV.0060.45) PLATES	(658.0500) PEDESTRIAN	VIDEO DETECTON	ACCUSCAN
		SIGNAL	12-INCH,	12-INCH,	16-INCH, PEDESTRIAN	12-INCH,	12-INCH,	- PUSH BUTTONS	CAMERA	1000
		PREEMPT	3-SECTION VERTICAL	. 4-SECTION VERTICAL	WITH COUNTDOWN	3-SECTION VERTICAL	. 4-SECTION VERTICA	<b>\</b> L		
CATEGORY	STRUCTURE	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
0100	TS1	-	1	-	2	1	-	1	-	-
	TS2	1	3	1	-	3	1	-	1	1
	TS3	-	1	-	1	1	-	-	-	-
	TS4	-	1	1	1	1	1	1	-	-
	TS5	1	3	1	-	3	1	-	1	1
	TS6	-	-	-	1	-	-	-	-	-
	TS7	-	-	-	2	-	-	1	-	-
	SL1410	-	1	-	-	1	-	-	-	-
	SL9936	-	1	1	1	1	1	1	1	-
PROJECT	7 45852 TOTALS	2	11	4	8	11	4	4	3	2

#### **TRAFFIC SIGNAL POLES (45852)**

		PEDESTAL BASES	MONOTUBE POLE, TYPE 9	TRAFFIC SIGNAL STANDARDS	TRAFFIC SIGNAL STANDARDS	TROMBONE ARM 18-FOOT	MONOTUBE ARM, 35-FOOT
CATEGORY	STRUCTURE	EACH	EACH	ALUMINUM 13-FT	<b>ALUMINUM 20-FT</b>	EACH	EACH
0100	TS1	1	-	1	-	-	-
	TS2	-	1	-	-	-	1
	TS3	1	-	1	-	-	-
	TS4	-	-	1	-	-	-
	TS5	-	1	-	-	-	1
	TS6	1	-	1	-	-	-
	TS7	1	-	1	-	-	-
PROJECT	45852 TOTALS	4	2	5	0	0	2

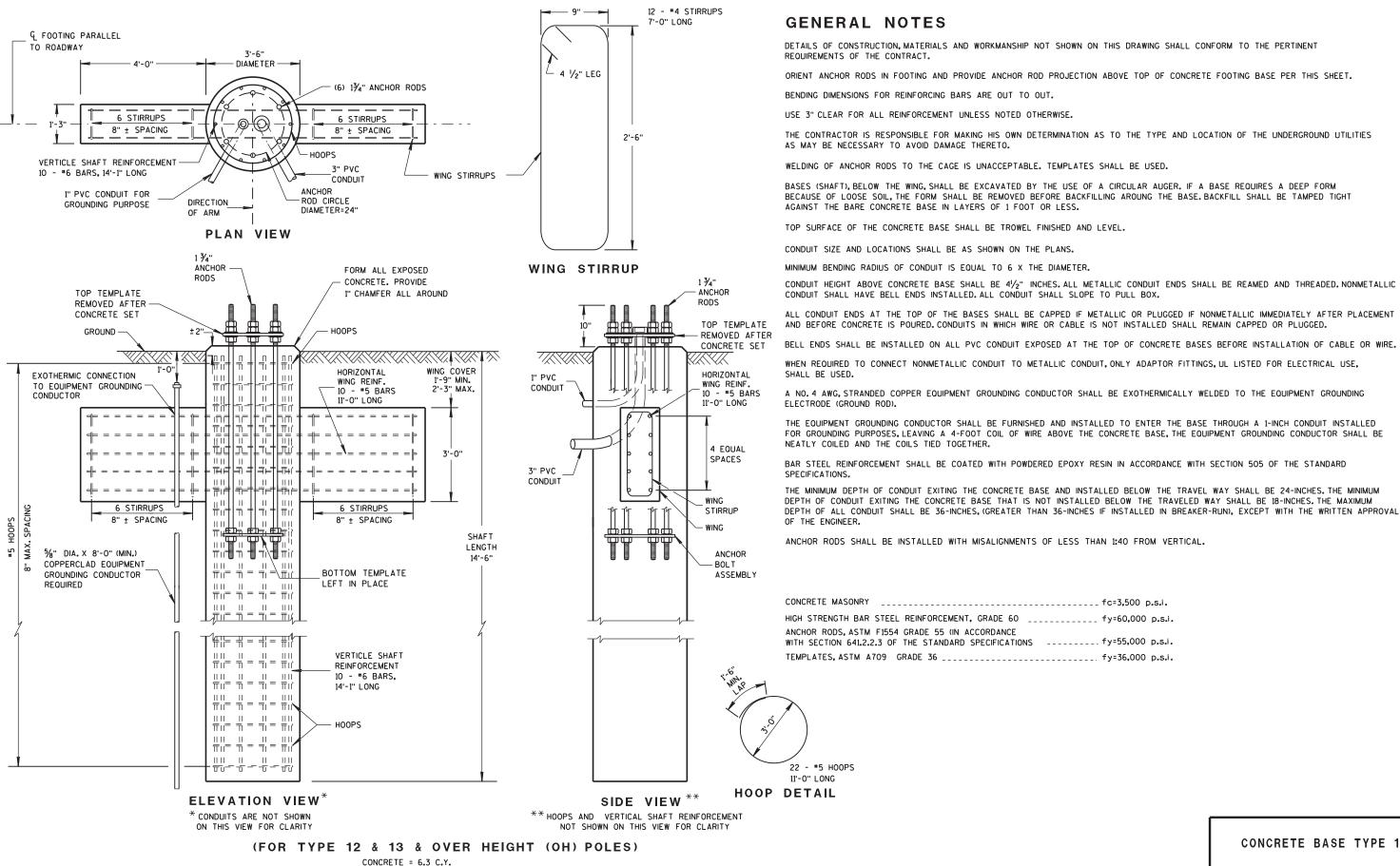
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D

D

9

C



H.S. REINFORCEMENT = 635 LBS.

SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.

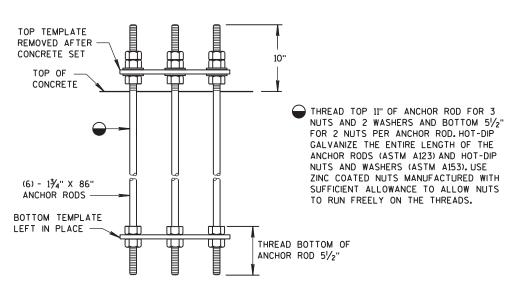
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.

**CONCRETE BASE TYPE 13** 

7

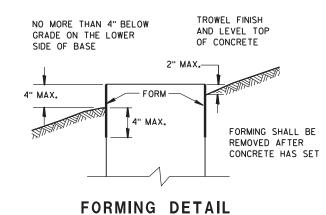
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

#### CONCRETE BASE TYPE 13 ANCHOR ASSEMBLY



CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

12

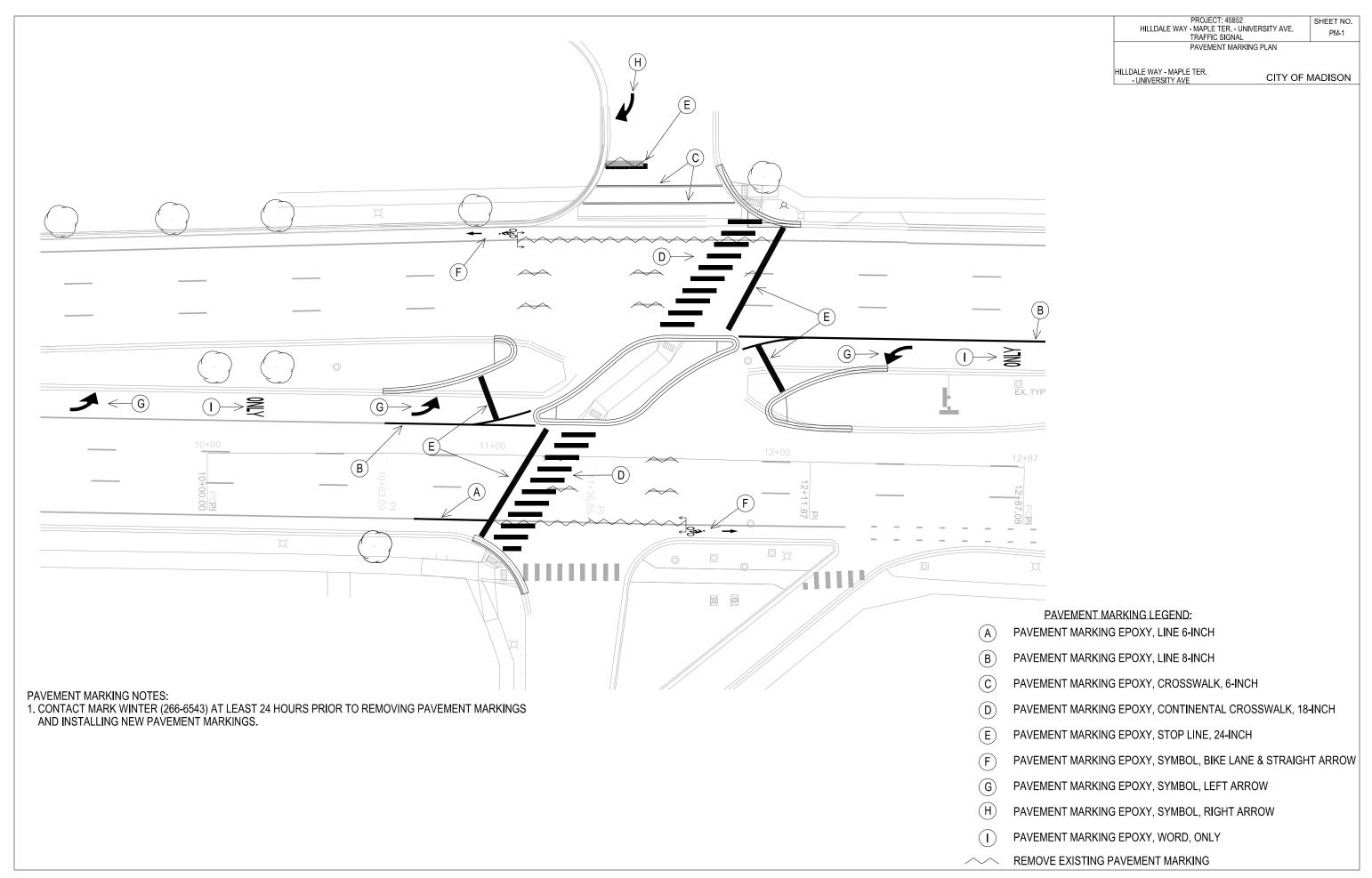
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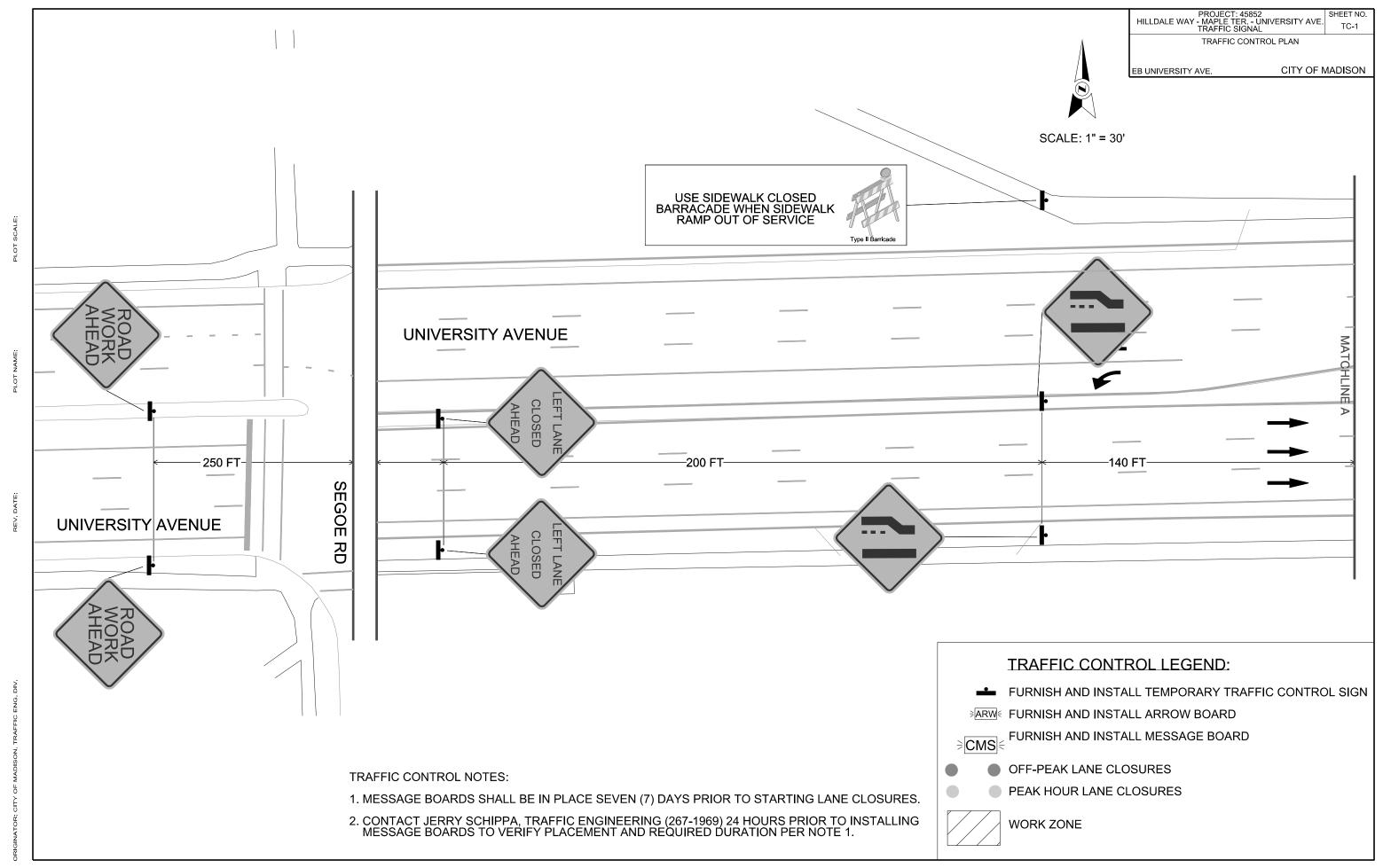
APPROVED

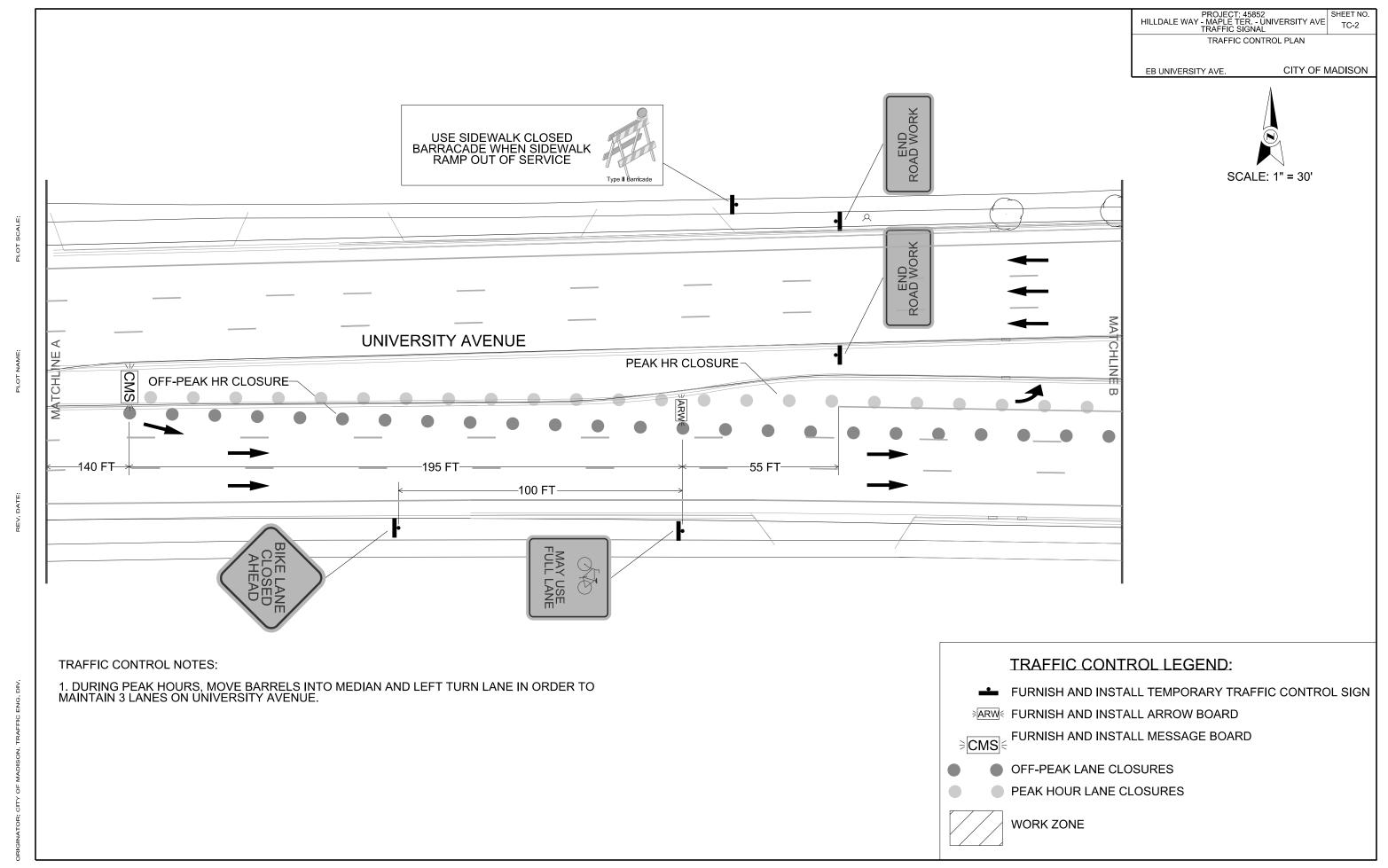
Moy 2017
DATE

STATE ELECTRICAL ENGINEER
FHWA

6







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