01-19-2024 LETTING ITEM 049

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

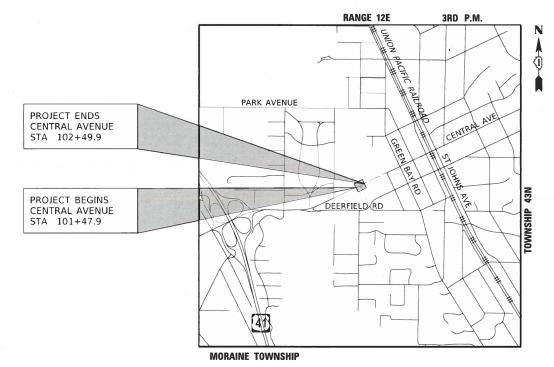
FAU RTE 1256 (CENTRAL AVE) AT HICKORY STREET INTERSECTION IMPROVEMENT SECTION NO.: 21-00142-00-TL **PROJECT NO.: 91YE(332)** CITY OF HIGHLAND PARK LAKE COUNTY

C-91-215-23

FOR INDEX OF SHEETS AND LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

CENTRAL AVE DESIGN DESIGNATION = MINOR ARTERIAL POSTED SPEED = 25 MPH 2019 ADT = 14.100 VPD

HICKORY ST DESIGN DESIGNATION = LOCAL ROAD POSTED SPEED = 25 MPH



PROJECT LOCATION

J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS

ON REDUCED PLANS. THE ABOVE SCALES MAY BE USED.

PROJECT LENGTH: GROSS & NET LENGTH - 102.0 FT (0.02 MILES)

CONTRACT NO.: 61J82

CIVILTECH

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION 08/04/2023 MOVEMBER 1, 2023 NOVEMBER 1,2023

LAKE 34 1

SISTERED P.E., STATE OF ILLINOIS EXPIRES 11/30/2023

INDEX OF SHEETS

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PAVEMENT MARKING, EROSION CONTROL, AND LANDSCAPING PLAN 15

16 - 24 TRAFFIC SIGNAL PLANS 25 - 34 CONSTRUCTION STANDARDS

CITY OF HIGHLAND PARK STANDARDS

FOR-1041 TREE PROTECTION DETAIL STR-1031 TYPICAL DRIVEWAY & SIDEWALK DETAIL STR-1037 INLET PROTECTION (TYPE B - W/O CURB BOX; TYPE C - W/ CURB BOX) TUFTILE DETECTABLE WARNING PRODUCTS 2' X 4' WET SET TACTILE TILE

IDOT HIGHWAY STANDARDS

280001-07

878001-11

424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND
	GUTTER
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" AWAY FROM PAVEMENT
	EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm)
	FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR
	SPEEDS ≤ 40 MPH
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-09	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

STANDARD SYMBOLS ABBREVIATIONS & PATTERNS

TEMPORARY EROSION CONTROL SYSTEMS

IDOT DISTRICT ONE STANDARDS

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BUTT JOINT AND HMA TAPER DETAILS
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS,
INTERSECTIONS, AND DRIVEWAYS
DISTRICT ONE TYPICAL PAVEMENT MARKINGS
ARTERIAL ROAD INFORMATION SIGN

CONCRETE FOUNDATION DETAILS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." ADOPTED JANUARY 1, 2022, (HEREINAFTER REFERRED TO AS THE 'STANDARD SPECIFICATIONS"), THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," AND THE "MANUAL OF TEST PROCEDURES OF MATERIALS", IN EFFECT ON THE DATE OF INVITATION FOR BIDS, AND THE 'STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION WHICH APPLY TO AND GOVERN THE CONSTRUCTION OF THE ABOVE NAMES SECTION, AND IN CASE OF CONFLICT WITH ANY PARTS, OR PARTS OF SAID SPECIFICATIONS, THE SAID SPECIAL PROVISIONS SHALL TAKE PRECEDENCE AND SHALL
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER.
- NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS AND EROSION CONTROL DEVICES ARE MET TO THE SATISFACTION OF THE ENGINEER
- PROPOSED LINES AND GRADES SHOWN ON THE CONSTRUCTION PLANS REPRESENT FINISHED GRADE ELEVATIONS, UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS, INCLUDING RADII, ARE GIVEN TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. WHERE NEW WORK IS PROPOSED TO MEET EXISTING FEATURES, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD CHECK ALL DIMENSIONS AND ELEVATIONS AND NOTIFY THE ENGINEER OF DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION.
- CURB AND GUTTER JOINTS SHALL BE PLACED AS PER STANDARD 606001 AND IN ADDITION ONE INCH EXPANSION JOINTS SHALL BE PLACED EVERY 75 FT. AT LEAST ONE EXPANSION JOINT SHALL BE PLACED IN EACH SEGMENT OF CURB REMOVAL AND
- CONCRETE TRUCK WASHOUT FACILITY SHOULD BE PROVIDED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS" AND SPECIAL PROVISIONS IN THE FIELD BY THE CONTRACTOR AT A LOCATION OR LOCATIONS APPROVED BY THE ENGINEER. WASHING CONCRETE AT CURB AND GUTTER IS STRICTLY PROHIBITED. NO CONCRETE WASHOUT PERMITTED AT ANY OPEN EXCAVATION, SUBJECT TO EROSION CONTROL DEFICIENCY ACCORDING TO ARTICLE 105.03.
- THE CONTRACTOR SHALL REMOVE FROM THE PROJECT SITE ALL UNSUITABLE EXCAVATED MATERIAL. THIS MATERIAL WILL BE CLASSIFIED AS ALL MATERIAL THAT THE ENGINEER DEEMS UNSUITABLE, SUCH AS REBAR, ABANDONED WIRE, ETC. THE WASTE EXCAVATED MATERIAL SHALL NOT BE DEPOSITED ON PUBLIC OR PRIVATE PROPERTY UNLESS THE CONTRACTOR FIRST OBTAINS THE WRITTEN PERMISSION FROM THE PROPERTY OWNER OR THE AUTHORIZED REPRESENTATIVE OF THE APPROPRIATE PUBLIC AGENCY. PROVISIONS OF ARTICLE 202.03 STANDARD SPECIFICATIONS SHALL BE ADHERED TO. THE DISPOSAL AREA LOCATION SHALL BE DISCLOSED TO THE ENGINEER. ALL REMOVAL ITEMS, INCLUDING EARTH EXCAVATION, AND REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS SHALL BE REMOVED AT THE END OF THE DAY. THE CONTRACTOR MUST REQUEST IN WRITING A LOCATION FOR STORAGE OF SUITABLE EXCAVATED MATERIALS THAT WILL BE INCORPORATED INTO THE
- THE THICKNESSES OF HMA MIXTURES SHOWN ON THE PLANS ARE NOMINAL, DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE COURSE UPON WHICH THE HMA MATERIALS ARE PLACED.
- THE CONTRACTOR SHALL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON CITY PROPERTY WITHOUT WRITTEN CONSENT FROM THE CITY.

SURVEY

- 11. BEARINGS AND COORDINATES ARE REFERENCED TO THE ILLINOIS COORDINATE SYSTEM NAD 83(2011) EAST ZONE.
- 12. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR ANY AGENT HAS WITNESSED OR OTHERWISE REFERENCED EACH LOCATION.

STORM SEWERS, STRUCTURES AND UTILITIES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT I-800-892-0123 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION IS REQUIRED)
- 14. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY
- 15. THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATION OF SUCH UTILITIES AND EXERCISE CARE DURING HIS CONSTRUCTION OPERATIONS SO AS NOT TO DAMAGE THEM IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND APPLICABLE ARTICLES INCLUDED IN THE "STANDARD SPECIFICATIONS" INCLUDING BUT NOT LIMITED TO ARTICLES 105 07 AND 107 39. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITIES SO THAT THEIR FACILITIES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF THE CONSTRUCTION OPERATIONS
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL AGENCIES MAINTAINING STORM & SANITARY SEWERS AND WATER MAINS TO VERIFY THE MATERIALS AND METHODS ALLOWED FOR THE ADJUSTMENT OR RELOCATION OF THEIR FACILITIES, IF
- 17. ONLY PRECAST CONCRETE ADJUSTMENT RINGS, MAXIMUM OF 12" IN HEIGHT, WILL BE ALLOWED IN THE ADJUSTMENT OR RECONSTRUCTION OF CATCH BASIN, MANHOLE, INLET AND VALVE VAULT STRUCTURES, UNLESS INDICATED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE ENGINEER. COMMON BRICK WILL NOT BE ALLOWED. ALL TYPE 8 GRATES ON RESTRICTED DEPTH DRAINAGE STRUCTURES SHALL BE ADJUSTED TO PLAN GRADE WITH 4" MINIMUM CONCRETE ADJUSTMENT RINGS.

MAINTENANCE OF TRAFFIC

- 18. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT
- 19. A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE APPLICABLE HIGHWAY STANDARDS
- 20. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND THE CITY TO REDUCE IMPACT TO MAJOR HOLIDAYS AND SPECIAL EVENTS. THE CONTRACTOR SHALL OBSERVE ALL LOCAL NOISE ORDINANCES UNLESS OTHERWISE APPROVED BY THE ENGINEER AND THE CITY.
- 21. DURING TRAFFIC OPERATIONS, THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ADJACENT TRAFFIC LANES THAT ARE OPEN TO TRAFFIC FROM DEBRIS GENERATED FROM THE CONSTRUCTION AREAS. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR REMOVING DEBRIS FROM THE ADJACENT TRAVELED LANE SURFACE. STREET SWEEPING, AS SPECIFIED BY THE ENGINEER, SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.

SIGNING, STRIPING, AND LANDSCAPING

- 22. ITEMS UNDER THE GENERAL HEADING OF "THERMOPLASTIC PAVEMENT MARKING" PROVIDE FOR ONE APPLICATION.
- 23. PER THE ILLINOIS LAWN CARE PRODUCTS APPLICATION NOTICE ACT 096-1005, PHOSPHORUS FERTILIZER NUTRIENT SHALL NOT BE USED.
- THE PRESERVATION OF EXISTING TREES IS OF UTMOST IMPORTANCE. AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.
- 25. WHEN DIRECTED BY THE ENGINEER, SUPPLEMENTAL WATERING SHALL BE APPLIED TO ALL SEEDED/SODDED AREAS PRIOR TO FINAL ACCEPTANCE AT A RATE SPECIFIED BY THE ENGINEER AND IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS" AND SPECIAL



DESIGNED	-	PK	REVISED	-	9/29/2023
DRAWN	-	JMG	REVISED	-	
CHECKED	-	JRV	REVISED	-	
DATE	•	8/4/2023	REVISED	-	

COMMITMENTS

NO COMMITMENTS AS PART OF THIS PROJECT.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS								
MIXTURE TYPE	QUALITY MANAGEMENT PLAN (QMP)							
PAVEMENT RESURFACING								
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 1-1/2"	4% @ 70 Gyr.	LR 1030 - 2						
PAVEMENT PATCHING	PAVEMENT PATCHING							
CLASS D PATCHES (HMA BINDER IL-19 mm); 9"	4% @ 70 Gyr.	LR 1030-2						
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER LR 1030-2								

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LB/SQ YD/ IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

CONTACTS

CITY OF HIGHLAND PARK
DEPARTMENT OF PUBLIC WORKS
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1150 HALF DAY ROAD
HIGHLAND PARK, IL 60035
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HIGHLAND PARK POLICE DEPARTMENT 1677 OLD DEERFIELD ROAD HIGHLAND PARK, IL 60035 (847) 432-7730

HIGHLAND PARK FIRE DEPARTMENT #33 1130 CENTRAL AVENUE HIGHLAND PARK, IL 60035 (847) 433-3110 AT&T DISTRIBUTION LEGAL MANDATE ENGINEERING 1000 COMMERCE DRIVE OAK BROOK, IL 60523 g11629@att.com

COMCAST MARTHA GIERAS 688 INDUSTRIAL DRIVE ELMHURST, IL 60126 (224) 229-5862 martha_gieras@comcast.com

COMMONWEALTH EDISON COMPANY AXL DAVIS ONE LINCOLN CENTRE OAKBROOK TERRACE, IL 60181 (773) 236-7288 AXI.Davis@ComEd.com

NORTH SHORE GAS COMPANY JAY HAMMER (847) 263-4678 jay.hammer@northshoregasdelivery.com

TDS METROCOM MATT SCHULTE (262) 754-3063 Matt.Schulte@tdstelecom.com



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DEPARTMENT OF TRANSPORTATION

CENTRAL AVENUE AND HICKORY STREET INTERSECTION IMPROVEMENT
GENERAL NOTES

SHEET 2 OF 2 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILL

				HSIP FUNDS 90% FED	100% LOCAL
			T	10% LOCAL ROADWAY	
CODE NUMBER	ІТЕМ	דואט	TOTAL QUANTITY	0021	NON- PARTICIPATING
				0021	
20200100	EARTH EXCAVATION	CU YD	33	33	1
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	192	192	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	3	3	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	3	3	
25200110	SODDING, SALT TOLERANT	SQ YD	192	192	
25200200	SUPPLEMENTAL WATERING	UNIT	1	1	
28000510	INLET FILTERS	EACH	6	6	
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	132	132	
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	9	9	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	172	172	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	1	1	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	66	66	
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	33	33	
42001300	PROTECTIVE COAT	SQ YD	123	123	
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	9	9	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	898	898	

HSIP FUNDS

^ DENOTES SPECIALTY ITEM



Two Pierce Place, Suite 1400
ltasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

DESIGNED -	PK	REVISED	-	10/25/2023
DRAWN -	JMG	REVISED	-	
CHECKED -	JRV	REVISED	-	
DATE -	8/4/2023	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Γ	CENTRAL AVENUE	AN	D 1	HICKO	RY	STREET	INTERSECTION	IMPROVEMENT	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
						1256	21-00142-00-TL	LAKE	34	4			
CONTRACT NO. 6					I NO. 6	1182							

				HSIP FUNDS 90% FED 10% LOCAL	100% LOCAL
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0021	NON- PARTICIPATING
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	383	383	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	13	13	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	62	62	
44000600	SIDEWALK REMOVAL	SQ FT	671	671	
44201749	CLASS D PATCHES, TYPE I, 9 INCH	SQ YD	10	10	
60600605	CONCRETE CURB, TYPE B	FOOT	17	17	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE 8-6.12	FOOT	29	29	
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	17	17	
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	34	34	
66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2	
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10	10	
67100100	MOBILIZATION	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
DENOTES SP	SCIALTY ITEM				



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DRAWN	-	JMG	REVISED	-	
CHECKED	-	JRV	REVISED	-	
DATE	-	8/4/2023	REVISED	v	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION CENTRAL AVENUE AND HICKORY STREET INTERSECTION IMPROVEMENT
SUMMARY OF QUANTITIES

F.A.U. SECTION
1256 21-00142-00-TL SUMMARY OF QUANTITIES SHEET 2 OF 5 SHEETS STA. TO STA.

					HSIP FUNDS 90% FED	100% LOCAL
					10% LOCAL	
	CODE NUMBER	ПЕМ	UNIT	TOTAL QUANTITY	ROADWAY	NON- PARTICIPATING
	NOISEN			QUANTIT	0021	PARTICIPATING
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	42	42	
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	329	329	
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	382	382	
^	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1	
^						
	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	12	12	
^	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	276	276	
	7000000	THE MODE BOTH CONTENT HANDING - ENVE 12	100:	270	270	
^	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	53	53	
^	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	26	26	
j						
^	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	63	63	
^	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	5	5	
٨						
	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	10	10	
^	84200804	REMOVAL OF POLE FOUNDATION	EACH	1	1	
				-	-	
٨	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	3	1	
^	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
·						
^	85100100	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1
^	an					
- •	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	785	785	
^	DEMOTES CO	CONTY ITEM				
	DENOTES SP	CIMCLL LIGHT				

HSIP FUNDS



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DESIGNED	-	₽K	REVISED	-	10/25/2023
DRAWN	-	JMG	REVISED	-	
CHECKED	-	JRV	REVISED	-	
DATE	-	8/4/2023	REVISED	-	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CENTRAL AVENUE AND HICKORY STREET INTERSECTION IMPROVEMENT SUMMARY OF QUANTITIES SHEET 3 OF 5 SHEETS STA. TO STA.

					HSIP FUNDS	1000/ 1004
					90% FED 10% LOCAL	100% LOCAL
	CODE	· · · · · · · · · · · · · · · · · · ·		TOTAL	ROADWAY	NON-
	NUMBER	ITEM	UNIT	QUANTITY	0021	PARTICIPATING
					0021	
^	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	834	834	

^	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	110	110	
^	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	4	4	
^	87900200	DRILL EXISTING HANDHOLE	EACH	7	7	
^	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8	8	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
^	89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	2	2	
^	89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1	1	
^	89502200	MODIFY EXISTING CONTROLLER	EACH	1	1	
^	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	665	665	
^	89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	46	46	

^	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1	
		,				****
^	89502376	REBUILD EXISTING HANDHOLE	EACH	3	3	
^	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2	2	
^	X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	6	6	
	X2130010	EXPLORATION TRENCH (SPECIAL)	FOOT	50	50	
	X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	71	71	
^	DENOTES SPI	ECIALTY ITEM				

DENOTES SPECIALTY ITEM



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	DESIGNED	-	PK	REVISED	-	10/25/2023
	DRAWN	-	JMG	REVISED	-	
i	CHECKED	•	JRV	REVISED	-	
ĺ	DATE	-	8/4/2023	REVISEO	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CENTRAL AVEN	JE AND)	ніско	RY	STREET	INTE	RSECTION	IMPROVEMENT	Ţ
		SL	JMMA	RY	OF QUA	NTIT	IES		-
	SHEET	4	OF	5	SHEETS	STA.		TO STA.	7

HSIP FUNDS

IT	F.A.U. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	1256	21-001	42-00-TL	LAKE	34	7	
					CONTRACT	NO. 61	1,182
	FED. R	OAD DIST. NO. 1	ILLINOIS	FED. A	O PROJECT		

					90% FED 10% LOCAL	100% LOCAL
	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0021	NON- PARTICIPATING
	X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACII	6	6	
٨	X8161000	EXPOSE AND RELOCATE EXISTING UNIT DUCT				
	X6101000	LA: OSE AND RELOCATE EXISTING UNIT BUCT	FOOT	20	20	
^	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8	8	
^	X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	24	24	
			1001		24	
	XX003668	PRECONSTRUCTION VIDEO TAPING	L SUM	1		1
	XX006698	TREE PROTECTION AND PRESERVATION	EACH	3	3	
^	XX008171	SPRINKLER SYSTEM REPAIR	L SUM	1	1	
	Z0013798	CONSTRUCTION LAYOUT	Ł SUM	1	1	
	Z0017400	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	2	2	
	20017700	DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED	EACH	1		
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	78	78	
^						
<i>,</i> ,	Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1	1	
ł						

HSIP FUNDS

CIVILTECH

Two Pierce Place, Suite 1400 Itasca, Illinois 60143 Tel: 630,773,3900 Fax: 630,773,3975 www.civiltechinc.com

 DESIGNED
 PK
 REVISED
 10/25/2023

 DRAVIN
 JMG
 REVISED

 CHECKED
 JRV
 REVISED

 DATE
 8/4/2023
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CENTRAL AVENUE AND HICKORY STREET INTERSECTION IMPROVEMENT
SUMMARY OF QUANTITIES

SHEET S OF 5 SHEETS STA. TO STA.

FA.U. SECTION COUNTY SHEETS NO.

1256 21-00142-00-TL LAKE 34 8

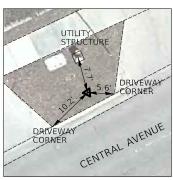
CONTRACT NO. 61/82

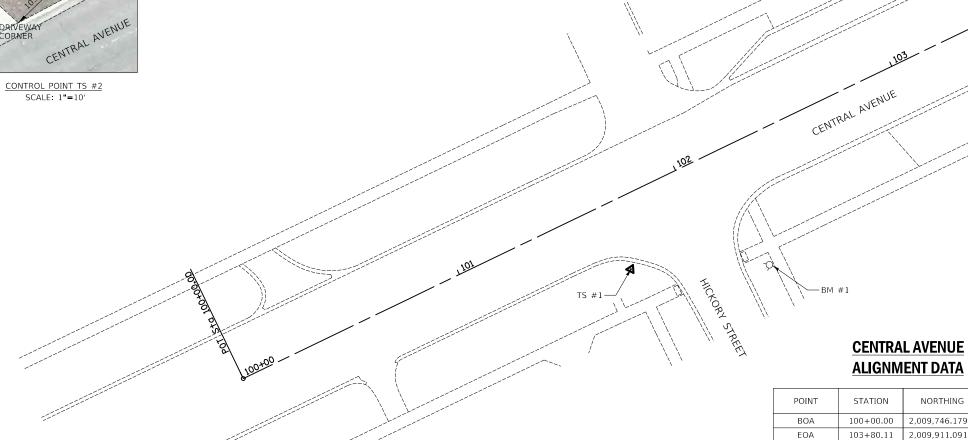
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

DENOTES SPECIALTY ITEM



CONTROL POINT TS #1 SCALE: 1"=10"





- ELEVATIONS ARE BASED MULTIPLE G.P.S. OBSERVATIONS AT TRAVERSE STATION #1 AND TRAVERSE STATION #2 MEASURED ON AUGUST 2,
- 2. BEARINGS AND COORDINATES ARE REFERENCED TO THE ILLINOIS COORDINATE SYSTEM NAD 83(2011) EAST ZONE.
- ALL MEASURED DISTANCES ARE GRID NOT GROUND. TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINED FACTOR OF 0.9999721786.

CONTROL POINTS

POINT NO.	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
TS #1	2,009,791.783	1,127,169.748	101+65.35	29.01' RT	IRON ROD & CAP
TS #2	2 009 999 116	1 127 461 918	105+18 54 (EXTD.)	31 04' LT	IRON ROD & CAP

NORTHING

2,009,746.179 1,127,008.189

2,009,911.091 1,127,350.657

EASTING

NOTE: THREE POINT TIES ARE PROVIDED ONLY TO FIND THE GENERAL LOCATION OF CONTROL POINT, NOT TO ACCURATELY ESTABLISH THE POINT.

■ CONTROL POINT

BENCHMARKS

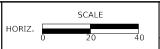
BENCHMARK NO.	LOCATION	ELEVATION	DESCRIPTION
BM #1	STA. 102+18.91, 52.93' RT	657.64	CROSS CUT (SET) IN NORTHERLY FLANGE BOLT OF FIRE HYDRANT IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF CENTRAL AVENUE & HICKORY STREET. NAVD '88 ELEVATION.



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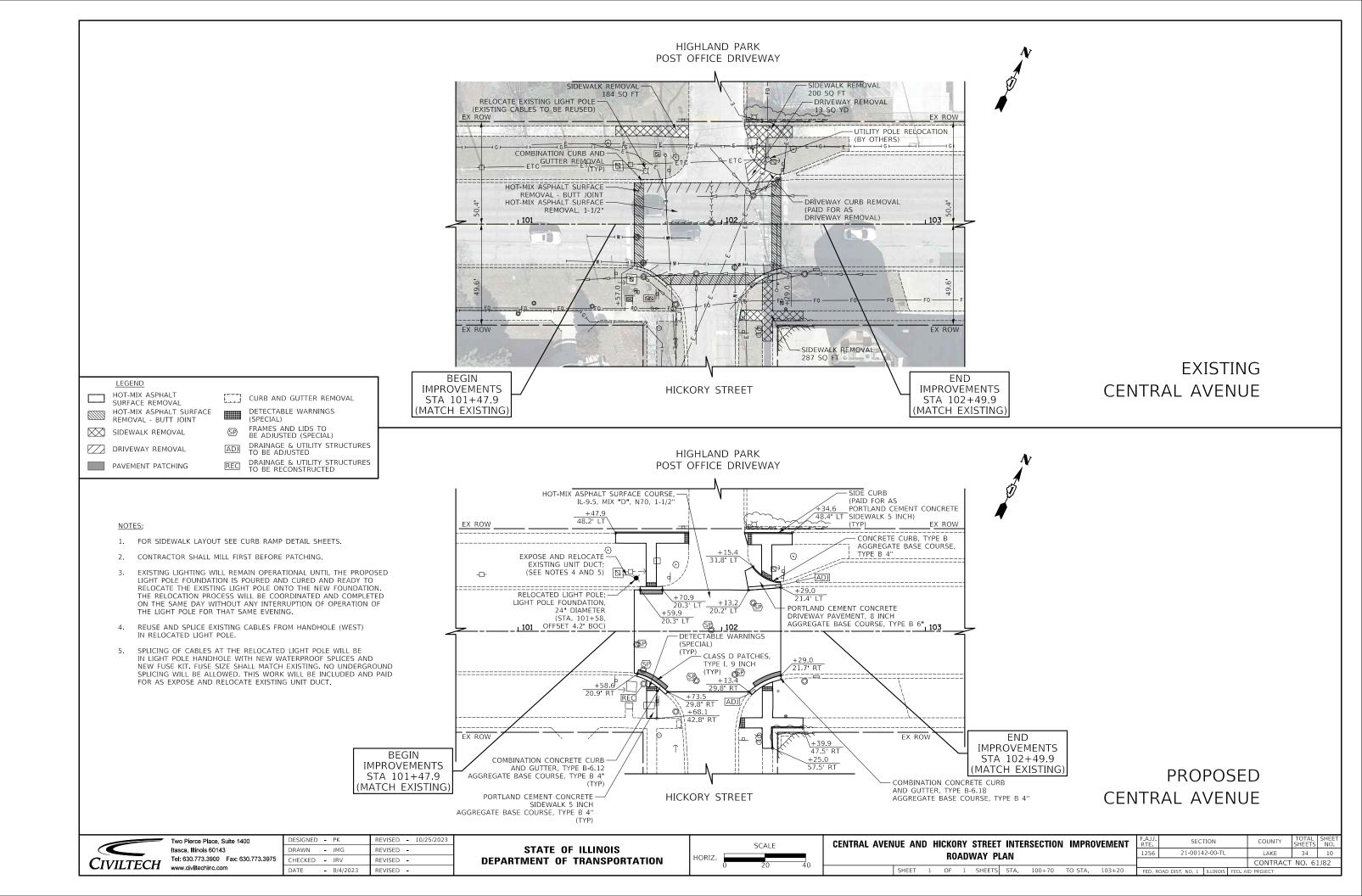
	DESIGNED	-	PK	REVISED	-	9/29/2023
	DRAWN	-	JMG	REVISED	-	
5	CHECKED	-	JRV	REVISED	-	
	DATE	-	8/4/2023	REVISED	-	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**



CENTRAL AVENUE AND HICKORY STREET INTERSECTION IMPROVEMENT							
ALIGNMENT, TIES, AND BENCHMARKS							
	CHEET	1 05	1	CHEETC	CTA	TO CTA	

F.A.U. RTE	SEC ⁻	ΠΟN		COUNTY	TOTAL SHEETS	SHEET NO.
1256	21-00142-00-TL			LAKE	34	9
			CONTRACT	NO. 6	1J82	
FED, R	OAD DIST, NO. 1	ILLINOIS	FED. A	ID PROJECT		



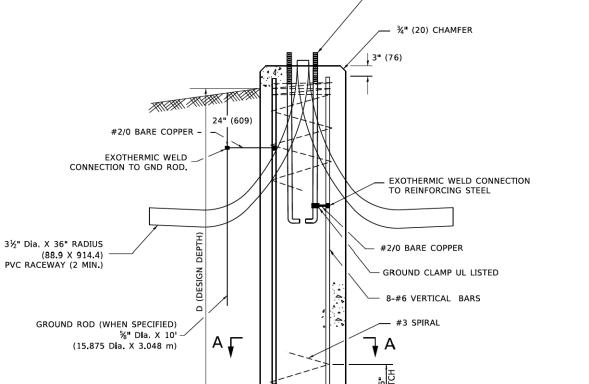
24" (609.6) Dia. LIGHT POLE FOUNDATION DEPTH TABLE BOLT CIRCLE DESIGN DEPTH "D" OF FOUNDATION CENTER RACEWAYS SOIL CONDITIONS SINGLE ARM POLE TWIN ARM POLE IN FOUNDATION 0 SOFT CLAY Qu = 0.375 TON/SQ. FT(3.35 m) (3.85 m) MEDIUM CLAY 14 10 9 0 (2.74 m) (4.52 m) Qu = 0.75 TON/SQ.FTSTIFF CLAY 8'-7" (2.29 m) (2.61 m) Qu = 1.50 TON/SQ. FT.LOOSE SAND 9'-6' 10'-7" RACEWAYS PARALLEL -TO EDGE OF PAVEMENT Ø = 34° (2.90 m) (3.22 m) MEDIUM SAND

TOP VIEW

ANCHOR ROD

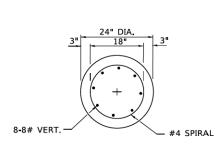
4-1" Dia X 5'-0" (4-25.4 Dia. X 1.524 m)

- 3 LOOPS MIN. AT TOP & BOTTOM



FOUNDATION DETAIL

24" Dia. (609.6)



SECTION A-A

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Ø = 37.5°

DENSE SAND

Ø = 40°

6" (152.4)

%" T. X 4" DIA.

WASHER, TACK -

WELDED

PA

5 (127.0)

TOP OF ANCHOR ROD

4" (100) MAX.

ANCHOR BOLT DETAIL

(2.74 m)

8 3

(2.51 m)

(2.99 m)

(2.91 m)

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- 60" (1500)

FOUNDATION EXTENSION DETAIL

	DESIGNED	-	PK	REVISED -	
	DRAWN	-	JMG	REVISED -	
5	CHECKED	-	JRV	REVISED -	
	DATE	-	8/4/2023	REVISED -	
					•

GROUND LINE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

3" (76.2

CENTRAL AVENUE AND HICKORY STREET **ROADWAY DETAILS** CONTRACT NO. 61J82 SHEET 1 OF 2 SHEETS STA. TO STA.

NOTES

BEFORE THE CONCRETE IN PLACED.

TOP SHALL BE CHAMFERED 3#4-IN. (20 mm).

SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.

SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.

BEFORE LIGHT POLES ARE INSTALLED.

COUPLINGS.

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN. 2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE

3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100 mm) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL. 4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE

SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER

TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.

5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE

6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13

7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL

NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES

THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE

8. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE

CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF

10. ANCHOR RODS SHALL PROJECT 23#4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE

11. THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE

12. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS

13 THE RACEWAYS SHALL PROJECT 1 (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

#3 TIES AT 12 (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.

9. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.

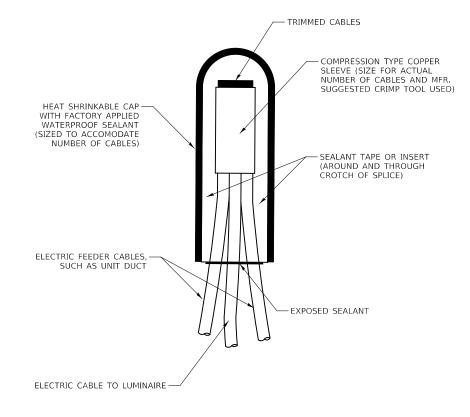
THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY

150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.

HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD

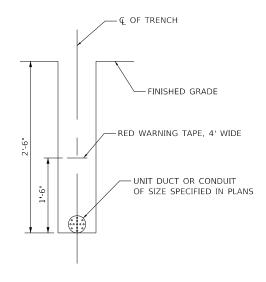
USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION

T INTERSECTION IMPROVEMENT	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS
TAIL C	1256	21-00142-00-TL	LAKE	34



NOTE: NUMBER OF CABLES IN SPLICE MAY VARY

SPLICING ELECTRIC CABLES BASIC MATERIALS AND METHODS



TRENCH CROSS SECTION

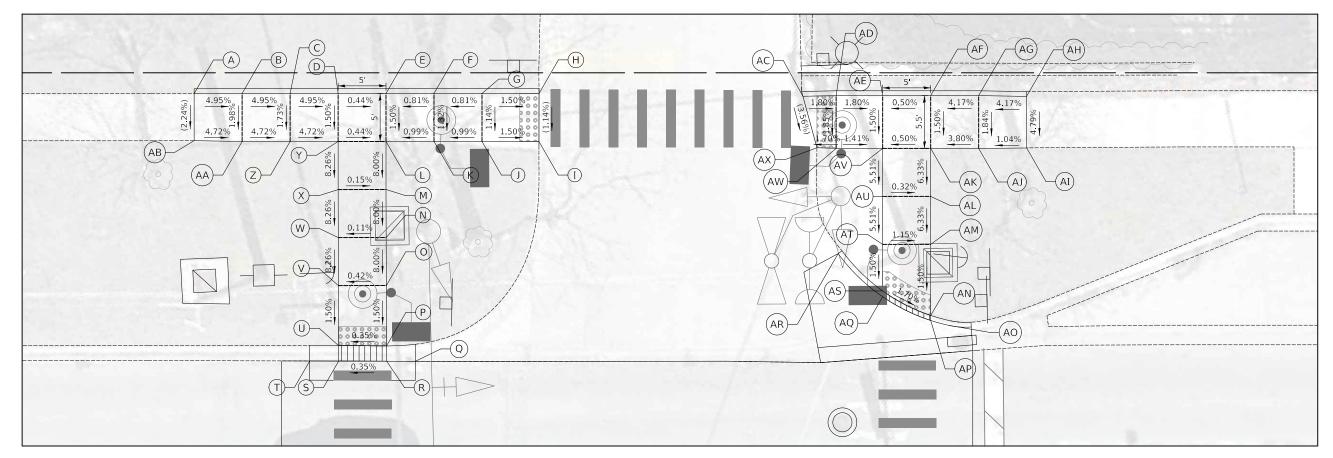


uite 1400	DESIGNED	-	PK
	DRAWN	-	JMG
Fax: 630.773.3975	CHECKED	-	JRV
1	DATE	-	8/4/2

REVISED -REVISED -REVISED -2023 REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

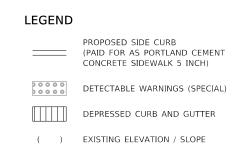
CENTRAL AVENUE AND HICKORY STREET INTO	TERSECTION IMPROVEMENT	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ROADWAY DETAILS	1256	21-00142-00-TL	LAKE	34	12	
HOADWAI DETAILO			CONTRACT	NO. 6	1J82	
SHEET 2 OF 2 SHEETS STA.	. TO STA.	EED BO	DAD DIST NO 1 TILLINOIS FED AL	D PROJECT		



NORTH LEG CROSSWALK CENTRAL AVENUE AND HICKORY STREET

POINT	STATION	OFFSET	ELEVATION	TOP OF CURB
Α	101+47.9	48.2' L	(656.27)	(656.27)
В	101+52.9	48.2' L	656.02	(656.22)
С	101+57.9	48.2' L	655.77	(656.16)
D	101+62.9	48.2' L	655.53	(656.11)
Е	101+67.9	48.2' L	655.50	(655.99)
F	101+72.9	48.2' L	655.54	(655.84)
G	101+77.9	48.2' L	655.58	(655.68)
Н	101+83.8	48.2' L	(655.50)	(655.50)
I	101+83.8	43.2' L	(655.44)	
J	101+77.9	43.2' L	655.53	
K	101+72.9	43.2' L	655.48	
L	101+67.9	43.2' L	655.43	
М	101+67.9	38.2 ' L	655.03	
N	101+67.9	33.2' L	654.63	
0	101+67.9	28.2' L	654.23	
Р	101+67.9	21.9' L	654.13	
Q	101+70.9	20.3' L	654.07	
R	101+67.9	20.3' L	654.06	
5	101+62.9	20.3' L	654.04	
Т	101+59.9	20.3' L	654.03	
U	101+62.9	21.9' L	654.12	
V	101+62.9	28.2 ' L	654.21	
W	101+62.9	33.2' L	654.62	
Х	101+62.9	38.2' L	655.04	
Υ	101+62.9	43.2' L	655.45	
Z	101+57.9	43.2' L	655.69	
AA	101+52.9	43.2' L	655.92	
AB	101+47.9	43.3' L	(656.16)	

POINT	STATION	OFFSET	ELEVATION	TOP OF CURE ELEVATION
AC	102+11.3	47.9' L	(655.70)	(655.72)
AD	102+14.8	48.0' L	655.63	(655.76)
AE	102+19.6	48.0' L	655.55	(655.82)
AF	102+24.6	48.0' L	655.57	(655.88)
AG	102+29.6	48.0' L	655.78	(655.93)
АН	102+34.6	47.9 L	(655.99)	(656.01)
ΑI	102+34.6	42.5' L	(655.73)	
ΑJ	102+29.6	42.5' L	655.68	
AK	102+24.6	42.5' L	655.49	
AL	102+24.6	37.5' L	655.17	
AM	102+24.6	32.5' L	654.86	
AN	102+24.6	25.1' L	654.75	
AO	102+26.6	24.0' L	(654.72)	
AP	102+24.6	24.5' L	654.76	
AQ	102+19.6	27.0' L	654.83	
AR	102+15.0	31.5' L	(655.11)	
AS	102+19.6	27.6' L	654.84	
AT	102+19.6	32.5' L	654.91	
AU	102+19.6	37.5' L	655.19	
AV	102+19.6	42.5' L	655.47	
AW	102+14.8	42.5' L	655.53	
AX	102+12.8	42.5 L	(655.50)	





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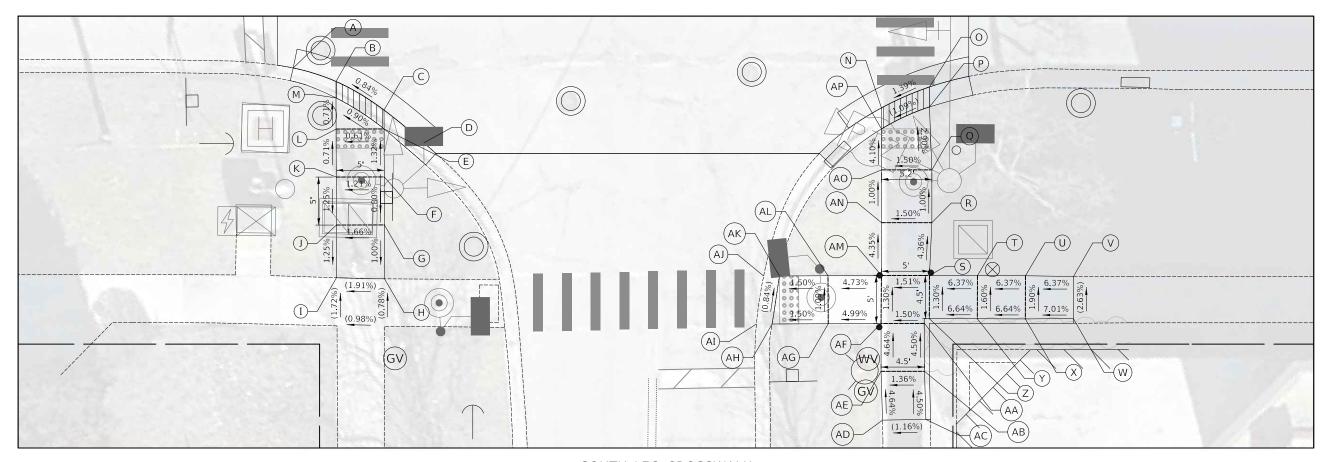
DESIGNED - PK REVISED - 10/25/2023 DRAWN - JMG REVISED -CHECKED - JRV DATE - 8/4/2023 REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**



CENTRAL AVENUE AND HICKORY STREET INTERSECTION IMPROVEMENT **CURB RAMP DETAILS** SHEET 1 OF 2 SHEETS STA. TO STA.

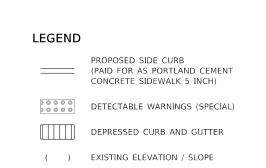
21-00142-00-TL LAKE 34 13 CONTRACT NO. 61J82



SOUTH LEG CROSSWALK CENTRAL AVENUE AND HICKORY STREET

POINT	STATION	OFFSET	ELEVATION	TOP OF CURB ELEVATION
Α	101+58.6	20.9' R	(654.00)	
В	101+63.1	22.3' R	654.04	
С	101+68.1	25.3' R	654.08	
D	101+72.2	28.7' R	(654.13)	
Е	101+68.1	27.2' R	654.17	
F	101+68.1	32.2' R	654.24	
G	101+68.1	37.2' R	654.20	
Н	101+68.1	42.8' R	(654.14)	
I	101+63.1	42.7' R	(654.04)	
J	101+63.1	37.2' R	654.11	
K	101+63.1	32.2' R	654.17	
L	101+63.1	27.2' R	654.14	
М	101+63.1	24.0' R	654.12	

POINT	STATION	OFFSET	ELEVATION	TOP OF CURB ELEVATION
N	102+19.9	25.0' R	(654.45)	
0	102+24.9	22.8' R	(654.53)	
Р	102+24.9	24.9' R	654.54	
Q	102+25.2	31.5' R	654.73	
R	102+25.2	37.0' R	654.78	
S	102+24.9	42.5' R	655.02	
Т	102+29.9	42.5' R	655.34	
U	102+34.9	42.5' R	655.66	
V	102+39.9	42.6' R	(655.98)	
W	102+39.9	47.0' R	(656.10)	(656.11)
Х	102+34.9	47.0' R	655.75	(655.94)
Υ	102+29.9	47.0' R	655.42	(655.73)
Z	102+24.9	47.0' R	655.08	(655.52)
AA	102+24.4	47.5' R	655.08	(655.52)
AB	102+24.4	52.5' R	655.31	(655.51)
AC	102+24.5	57.5' R	(655.53)	(655.54)
AD	102+20.0	57.6' R	(655.48)	
AE	102+19.9	52.5' R	655.25	
AF	102+19.9	47.5' R	655.01	
AG	102+14.4	47.5' R	654.74	
АН	102+08.5	47.5' R	(654.65)	
ΑI	102+06.9	47.5' R	(654.59)	
ΑJ	102+07.6	42.5' R	(654.54)	
AK	102+09.3	42.5' R	(654.61)	
AL	102+14.3	42.5' R	654.69	
ΑМ	102+19.9	42.5 R	654.95	
AN	102+19.9	37.0' R	654.71	
AO	102+19.9	31.5' R	654.65	
AP	102+19.9	27.2' R	654.48	





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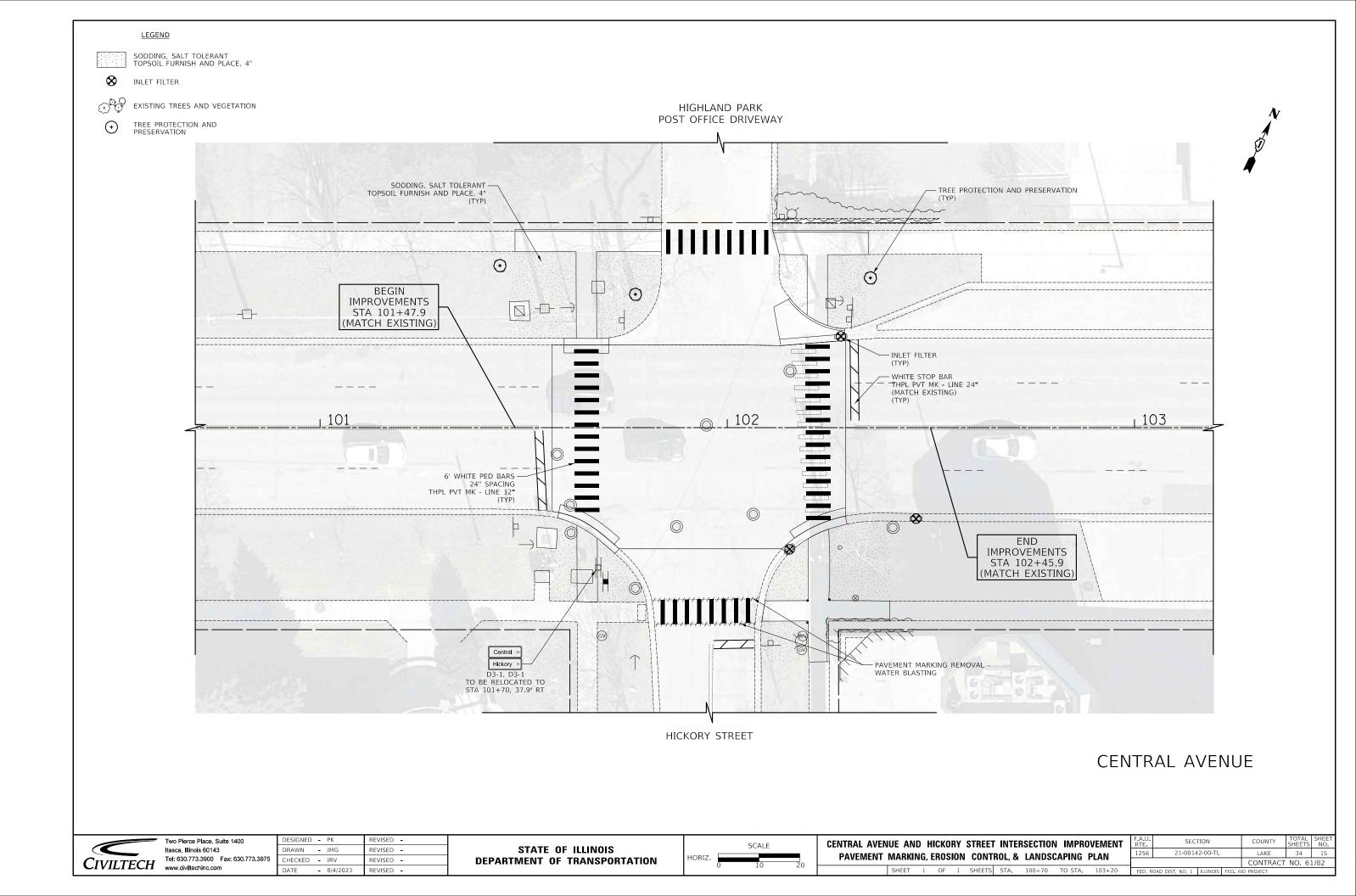
DESIGNED - PK REVISED -DRAWN - JMG REVISED -CHECKED - JRV REVISED -DATE - 8/4/2023 REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**



CENTRAL AVENUE AND HICKORY STREET INTERSECTION IMPROVEMENT **CURB RAMP DETAILS** SHEET 2 OF 2 SHEETS STA. TO STA.

21-00142-00-TL LAKE 34 14 CONTRACT NO. 61J82



TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

### COMMAND CARRIED 10 10 10 10 10 10 10 1	<u>ITEM</u>	EXISTING	PROPOSED	<u>ITEM</u>	<u>existing</u>	PROPOSED	ITEM	EXISTING	PROPOSED
AND	CONTROLLER CABINET			-SQUARE				R Y	R R Y
AND	COMMUNICATION CABINET	ECC	cc						G G
MICHION DOX. INCREMENTATION DO	MASTER CONTROLLER	EMC	MC	-SQUARE	H (P)	⊞ ⊕			4 G 4 G P
AMERICAN SOURCE STATE OF STA	MASTER MASTER CONTROLLER	EMMC	мма	DOUBLE HANDHOLE			SIGNAL HEAD WITH BACKPLATE	6 6 6	
REMORE INTERNATIONAL PROGRAMMENT REPORT THE CONTRACTOR TO THE PART OF THE PAR	UNINTERRUPTABLE POWER SUPPLY	4	3	JUNCTION BOX		•	-(P) PROGRAMMABLE SIGNAL HEAD		Y Y Y
REMORE INTERNATIONAL PROGRAMMENT REPORT THE CONTRACTOR TO THE PART OF THE PAR	SERVICE INSTALLATION	-D- ^P	- ■ -	RAILROAD CANTILEVER MAST ARM	X OX X X	XeX X			<u> </u>
SECOND ROUTED STATE OF COMMETTION STAT				RAILROAD FLASHING SIGNAL	∑⊖∑	XeX			
THE MAST AND ASSEMBLY AND POLE MERCENDIANDO CONTROLLES AGREET MINISTRATIONAL PROPERTY AND POLE CHARACT AND ASSEMBLY AND P	-(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	$\boxtimes^{G} \boxtimes^{GM}$	⊠ G M	RAILROAD CROSSING GATE	X 0 X	X•X	PEDESTRIAN SIGNAL HEAD		
UNDERSONAL ASSERTION AND POLE THE COMPANION MAST ANA MASSERMULY AND POLE THE COMPANION MAST ANA MASSERMULY AND POLE THE COMPANION MAST ANA MASTERMULY AND POLE THE COMPANION MAST ANA MAST SAM WIRE THOMPANY SAM WIRE TH	TELEPHONE CONNECTION	ET	Т	RAILROAD CROSSBUCK	否	*		Ø	<u>**</u>
LIJURINIAN MASS TRAIN ASSESSIBLY AND POLE TETHER KOMBALTONS THE COMBANTON MAST AND POLE TETHER KOMBAL FORD TETHER KOMBAL FORD THE COMBANTON MAST AND POLE TETHER KOMBAL FORD TETHER KOMBAL FORD THE COMBALTONS TO BE AND ASSESSIBLY AND POLE TO BE AND ASSESSIBLY AND ASSESSIBLY AND POLE TO BE AND ASSESSIBLY AND ASSESSIBLY AND ASSESSIBLY ASS	STEEL MAST ARM ASSEMBLY AND POLE	0	•——	RAILROAD CONTROLLER CABINET		▶<		C C	₽ c
TITCHE WIRE AND CARE	ALUMINUM MAST ARM ASSEMBLY AND POLE						WITH COUNTDOWN TIMER		
MIN BARKER HOUNTED - TEMPORARY O	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	o-;α—	•*						
NTERSECTION TREM OF PROPOSE THEM NTERSECTION TREM NTERSECTION TREM NTERSECTION TREM REPORT THEM REPORT	SIGNAL POST	0	 ● BM 	SYSTEM ITEM	S	SP			
NO. 6 SOLID COPPER (GREEN) FIGURAL HEAD FIGURAL HEAD FOR A A A A BANDON ITEM ABANDON ITEM CONTROLLER CABNET AND COMPANIATION TO BE REMOVED COPPER INTERCONNECT CABLE. AND 18 1 PART INTERCONNECT CABLE. ADARANDON TO BE REMOVED FIRE OPTIC CABLE. ADARANDON TO BE REMOVED FIRE OPTIC CABLE. ADARANDON TO BE REMOVED FIRE OPTIC CABLE. AND 18 1 PART INTERCONNECT CABLE. ADARANDON TO BE REMOVED FIRE OPTIC CABLE. AND 18 1 PART INTERCONNECT CABLE. AND 18 1 PART INTE	-(BM) BARREL MOUNTED - TEMPORARY			INTERSECTION ITEM	I	IP			9
BELOCATE TIPM ABANDON ITEM A	WOOD POLE	8	9	REMOVE ITEM		R		1#6	
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED CONTROLLER CABINET AND FOUNDATION TO BE REMOVED CONTROLLER CABINET AND FOUNDATION TO BE REMOVED COPER INTERCONNECT CABLE C	GUY WIRE	>-	>-	RELOCATE ITEM		RL			
GMAL HEAD OPTICALLY PROGRAMMED OF OFS OFS	SIGNAL HEAD		-	ABANDON ITEM		Α			
INSTITUTION CASHE VENDOR CABLE COPPER INTERCONNECT CABLE, NO. 18. 3 PART MISTERS. SHELDED VENDOR CABLE COPPER INTERCONNECT CABLE, NO. 18. 3 PART MISTERS. SHELDED VENDOR CABLE COPPER INTERCONNECT CABLE, NO. 18. 3 PART MISTERS. SHELDED VENDOR CABLE COPPER INTERCONNECT CABLE, NO. 18. 3 PART MISTERS. SHELDED VENDOR CABLE COPPER INTERCONNECT CABLE, NO. 18. 3 PART MISTERS. SHELDED VENDOR CABLE VENDOR CABLE COPPER INTERCONNECT CABLE, NO. 18. 3 PART MISTERS. SHELDED VENDOR CABLE COPPER INTERCONNECT CABLE, NO. 18. 3 PART MISTERS. SHELDED VENDOR CABLE COPPER INTERCONNECT CABLE, NO. 18. 3 PART MISTERS. SHELDED VENDOR CABLE COPPER INTERCONNECT CABLE, NO. 18. 3 PART MISTERS. SHELDED VENDOR CABLE COPPER INTERCONNECT CABLE, NO. 18. 3 PART MISTERS. SHELDED VENDOR CABLE COPPER INTERCONNECT CABLE, NO. 18. 3 PART MISTERS. SHELDED VENDOR CABLE COPPER INTERCONNECT CABLE, NO. 18. 3 PART MISTERS. SHELDED VENDOR CABLE COPPER INTERCONNECT CABLE, NO. 18. 3 PART MISTERS. SHELDED COPPER INTERCONNECT CABLE, NO. 18. 3 PART MISTERS. SHELDED COPPER INTERCONNECT CABLE, NO. 18. 3 PART MISTERS. SHELDED COPPER INTERCONNECT CABLE, NO. 18. 3 PART MISTERS. SHELDED COPPER INTERCONNECT CABLE COPPER INTERCONNECT CABLE, NO. 18. 3 PART MISTERS. SHELDED COPPER INTERCONNECT CABLE COPPER IN	SIGNAL HEAD WITH BACKPLATE	+⊳				RCF	COAXIAL CABLE	<u> </u>	— <u>c</u> —
FOUNDATION TO BE REMOVED SSOLAR POWERED SOLAR POW	SIGNAL HEAD OPTICALLY PROGRAMMED		→ P + → P				VENDOR CABLE	(v)	(v)
SIGNAL POST AND FOUNDATION TO BE REMOVED FOUND	FLASHER INSTALLATION -(FS) SOLAR POWERED	o+⊳ ^F o+⊳ ^{FS}				RMF		,	
DETECTOR LOOP, TYPE I NO. 62.5/125, MM12F NO. 6		□→F □→FS	■→ ^F ■→ ^{FS}			RPF	NO. 18, 3 PAIR TWISTED, SHIELDED	<u>(6#18)</u>	(6#18)
PREFORMED DETECTOR LOOP P P P P P P P P P P P P P P P P P P	PEDESTRIAN SIGNAL HEAD	-0	-1	DETECTOR LOOP, TYPE I			-NO. 62.5/125, MM12F	12F	——————————————————————————————————————
ADAR DETECTION SENSOR R3 R3 R4 SAMPLING (SYSTEM) DETECTOR S S S S S INTERSECTION AND SAMPLING (SYSTEM) DETECTOR S S S S S INTERSECTION AND SAMPLING (SYSTEM) DETECTOR S S S S S GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) P S S -(S) SERVICE GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) P S S -(S) SERVICE GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) P S S -(S) SERVICE GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) P S S -(S) SERVICE GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) P S S -(S) SERVICE	PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			PREFORMED DETECTOR LOOP	РР	РР		24F	
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR ADARAVIDEO DETECTION ZONE ADARAVIDEO DETECTION ZONE AN, TILT, ZOOM (PTZ) CAMERA PTZI WIRELESS DETECTOR SENSOR WIRELESS ACCESS POINT WIRELESS ACCESS POINT WIRELESS ACCESS POINT WIRELESS INTERCONNECT WIRELESS INTERCONNECT WIRELESS ACCESS POINT INTERSECTION AND SAMPLING (SYSTEM) DETECTOR IS IS IS GROUND ROD GROUND ROD (C) CONTROILLER (C)	RADAR DETECTION SENSOR	R	R	SAMPLING (SYSTEM) DETECTOR	s s	s s			
ADAR/VIDEO DETECTION ZONE ADAR/VIDEO DETECTION ZONE AN, TILT, ZOOM (PTZ) CAMERA PIZI WIRELESS DETECTOR SENSOR WIRELESS ACCESS POINT WIRELESS ACCESS POINT WIRELESS INTERCONNECT WIRELESS INTERCONNECT OUGUE AND SAMPLING (SYSTEM) DETECTOR (SYSTEM) DETECTOR WIRELESS ACCESS POINT OUGUE AND SAMPLING (SYSTEM) DETECTOR OUGUE AND SAMPLING (SYSTEM) DETECTOR WIRELESS ACCESS POINT OUGUE AND SAMPLING (SYSTEM) DETECTOR WIRELESS ACCESS POINT OUGUE AND SAMPLING (SYSTEM) DETECTOR OUGUE A	VIDEO DETECTION CAMERA	V	V ▶		IS (IS)	IS (IS)			
WIRELESS INTERCONNECT WIRELESS DETECTOR SENSOR WIRELESS DETECTOR SEN	RADAR/VIDEO DETECTION ZONE			QUEUE AND SAMPLING	QS QS	os os	-(C) CONTROLLER	<u> </u>	$\dot{\bar{\mp}}^{C} \ \dot{\bar{\mp}}^{M} \ \dot{\bar{\mp}}^{P} \ \dot{\bar{\mp}}^{S}$
MERGENCY VEHICLE LIGHT DETECTOR ✓ ONFIMATION BEACON OHH OHH OHH OHH OHH OHH OHH	PAN, TILT, ZOOM (PTZ) CAMERA	PTZ]1	PTZ				-(P) POST		
ONFIMATION BEACON O-CI O-HII O-HIII O-HIII	EMERGENCY VEHICLE LIGHT DETECTOR					<u> </u>	-(3) SERVICE		
VIRELESS INTERCONNECT O+III O+III	CONFIMATION BEACON			WIRELESS ACCESS POINT					
	WIRELESS INTERCONNECT								
	WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR						
	USER NAME - footem)	DESIGNED -	IP REVISED -				DISTRICT ONE	F.A.U. SECTIO	N COUNTY TOTAL SHEETS

MODEL: Default

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CHECKED - LP

DATE - 9/29/2016

PLOT SCALE = 50.0000 ' / In.

PLOT DATE = 3/4/2019

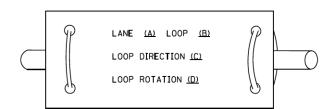
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE										
S	TANDAR	D T	RAF	FIC	SIGNAL	. DESIGN	DETAILS			
SCALE: NONE	SHEET 1	Į.	OF	7	SHEETS	STA.	TO STA.			

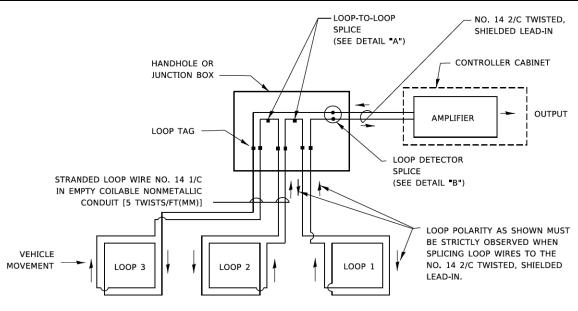
LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED, THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

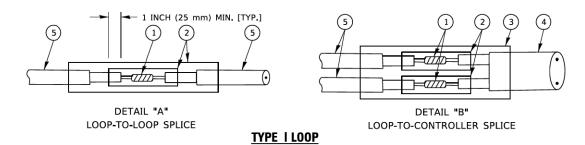


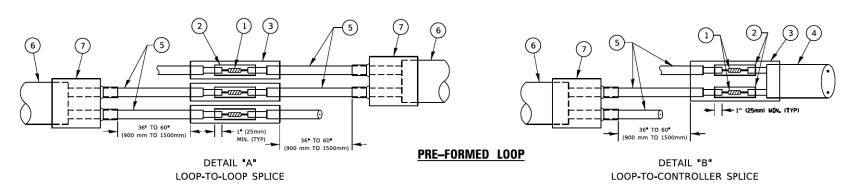
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3 (75 mm). IF IN CONCRETE,
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.





LOOP DETECTOR SPLICE

- 1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

SCALE: NONE

4 NO. 14 2/C TWISTED, SHIELDED CABLE.

- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PRE-FORMED LOOP
- (6) XL POLYOLEFIN 2 CONDUCTOR
- (7) BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

USER NAME - footemi DESIGNED -REVISED -DRAWN REVISED -CHECKED -REVISED -LOT SCALE = 50.0000 ' / In. DATE REVISED

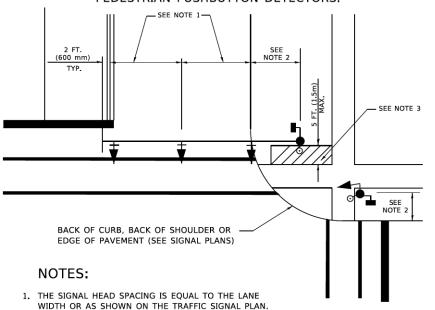
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION DISTRICT ONE 21-00142-00-TL LAKE STANDARD TRAFFIC SIGNAL DESIGN DETAILS CONTRACT NO. 61J82 TS-05 SHEET 2 OF 7 SHEETS STA.

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

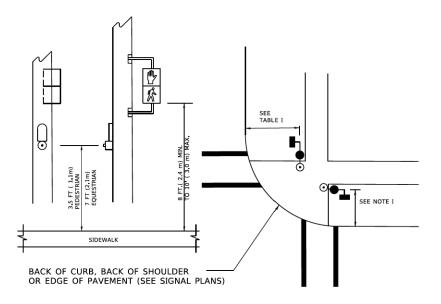
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND

PEDESTRIAN PUSHBUTTON DETECTORS.



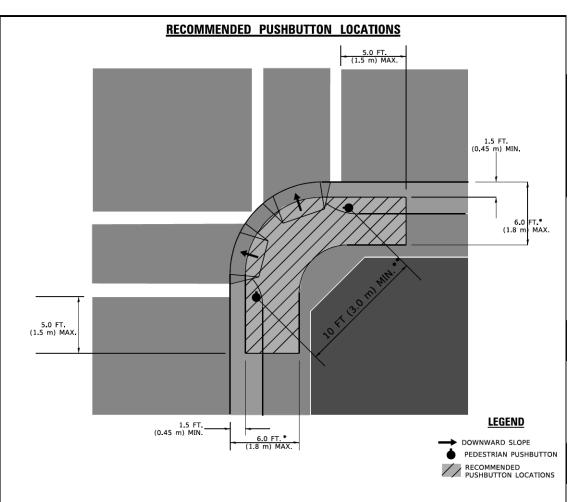
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
- THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."



- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

- PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
- THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
- 3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
- THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
- 4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

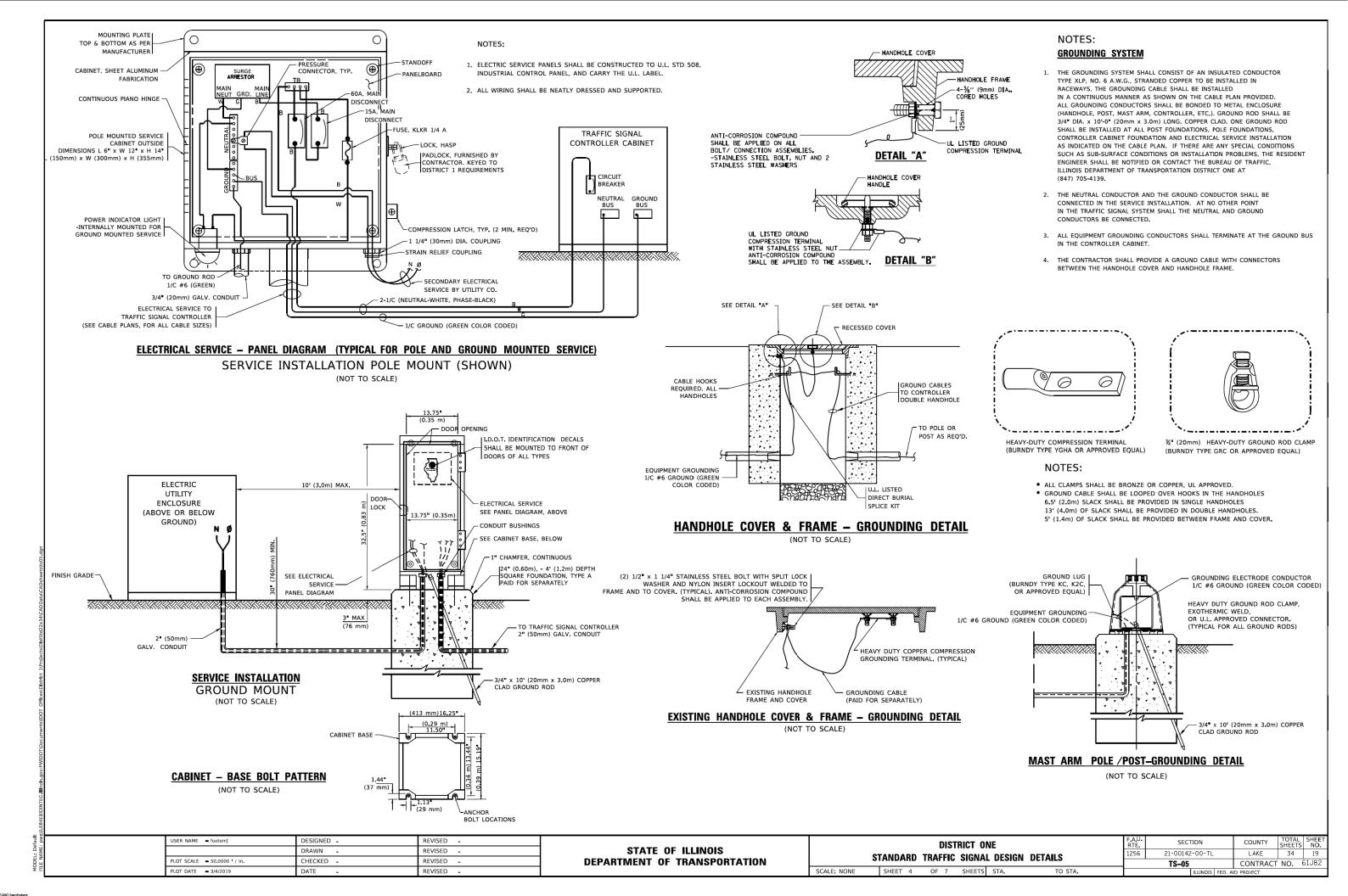
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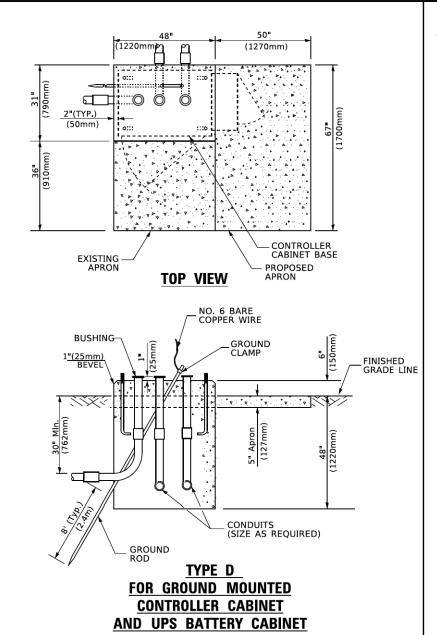
USER NAME = footemj	DESIGNED -	REVISED -
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PLOT SCALE = 50.0000 ' / In.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

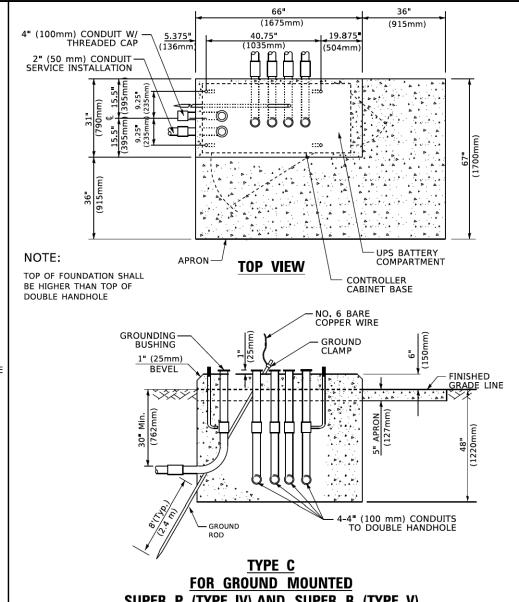
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE	F.A.U. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	1256	21-00142-00-TL		LAKE	34	18
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05		CONTRACT	NO.	61J82
SHEET 3 OF 7 SHEETS STA. TO STA.		ILLINOIS	FED. AID	PROJECT		

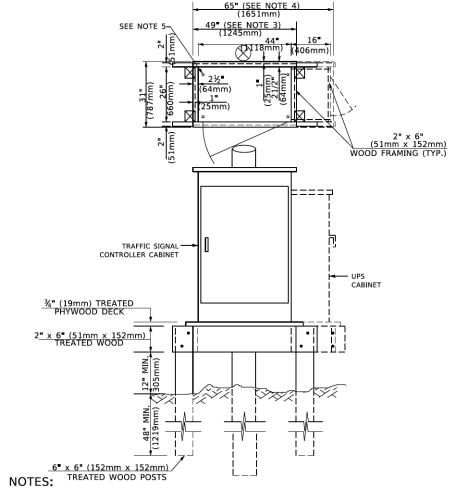
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SUPER P (TYPE IV) AND SUPER R (TYPE V) **CONTROLLER CABINETS**



- 1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
- 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD)		
(L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

CABLE SLACK

	FEET	METER	F	FOUNDATION
				TYPE A - Signal Post
ARM)	20.0+L	6.0+L	Г	TYPE C - CONTROLLER W/ UPS
	13.0	4.0	Г	TYPE D - CONTROLLER
	6.0	2.0	Г	SERVICE INSTALLATION.
	13.5	4.1		GROUND MOUNT,
	13.5	4.1	L	TYPE A - SQUARE
	6.0	2.0		
CEDITICE CROUND MOUNT)	2.0	1.0		

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Dep t h	Foundation Diameter	Spiral Diame t er	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10'-0" (3₌0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4 ₄ 1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0'' (4 . 6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21' - 0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7 . 6 m)	42" (1060mm)	36" (900mm)	16	8(25)

DEPTH

4'-0" (1.2m)

4'-0" (1.2m)

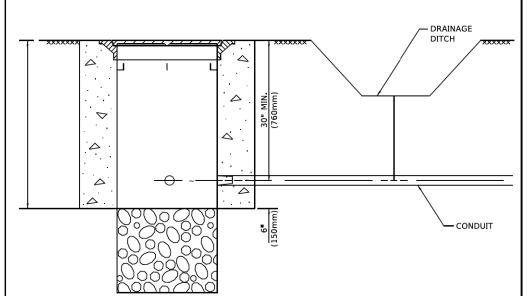
4'-0" (1.2m)

4'-0" (1.2m)

- 1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Ou) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
- 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36'' (900 mm) diameter foundations.
- 3. Combination most arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
- 4. For most arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

USER NAME = footemj	DESIGNED -	REVISED -	•	DISTRICT ONE	F.A.U. RTF.	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	1256	21-00142-00-TL	LAKE	34 20
PLOT SCALE = 50.0000 ' / In.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		TS-05		CONTRAC	T NO. 61J82
PLOT DATE = 3/4/2019	DATE -	REVISED -		SCALE: NONE SHEET 5 OF 7 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT	



NOTES:

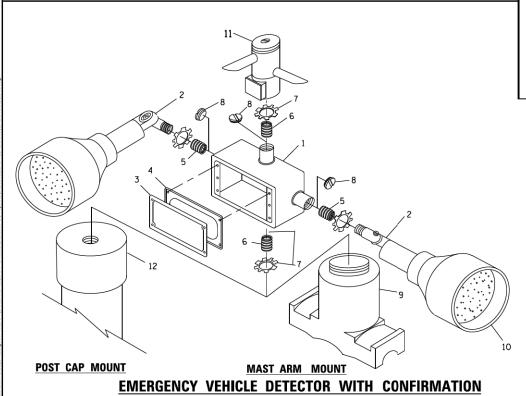
- CONDUIT DEPTH SHALL BE A MINIMUM OF 30[®] (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- 3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

USER NAME - footemi

PLOT SCALE = 50.0000 ' / In.

HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



BEACON MOUNTING DETAIL

DESIGNED -

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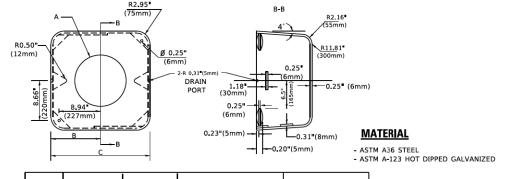
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(1675mm) (915mm) 40.75**"** 19.875" (136mm) (1035mm) ...<u></u> 0 CONTROLLER CABINET BASE PROPOSED-**TOP VIEW** APRON -NO. 3 DOWEL 18" (450mm NO. 6 BARE COPPER WIRE LONG (8 REQ.) **BUSHING-**GROUND CLAMP EXISTING-ANCHOR BOLTS GRADE LINE BEVEL 12" (300mm) (225mm) -EXISTING CONDUITS EXISTING GROUND ROD **MODIFY EXISTING TYPE "D" FOUNDATION** TO TYPE "C" FOUNDATION (NOT TO SCALE)

ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV, 21 CU,IN, (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾ (19 mm) CLOSE NIPPLE
7	¾•(19 mm) LOCKNUT
8	¾•(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- 2, ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
 ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
 ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

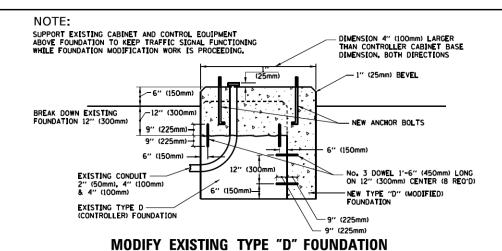


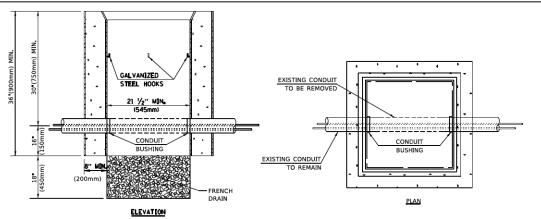
_ A	Δ.	В	С	HEIGHT	WEIGHT
VAR	RIES	9.5*(241mm)	19 " (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VAR	RIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VAR	RIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VAR	RIES	18.5 (470mm)	37 " (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

SHROUD

NOTES:

- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD.
 THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- 3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.





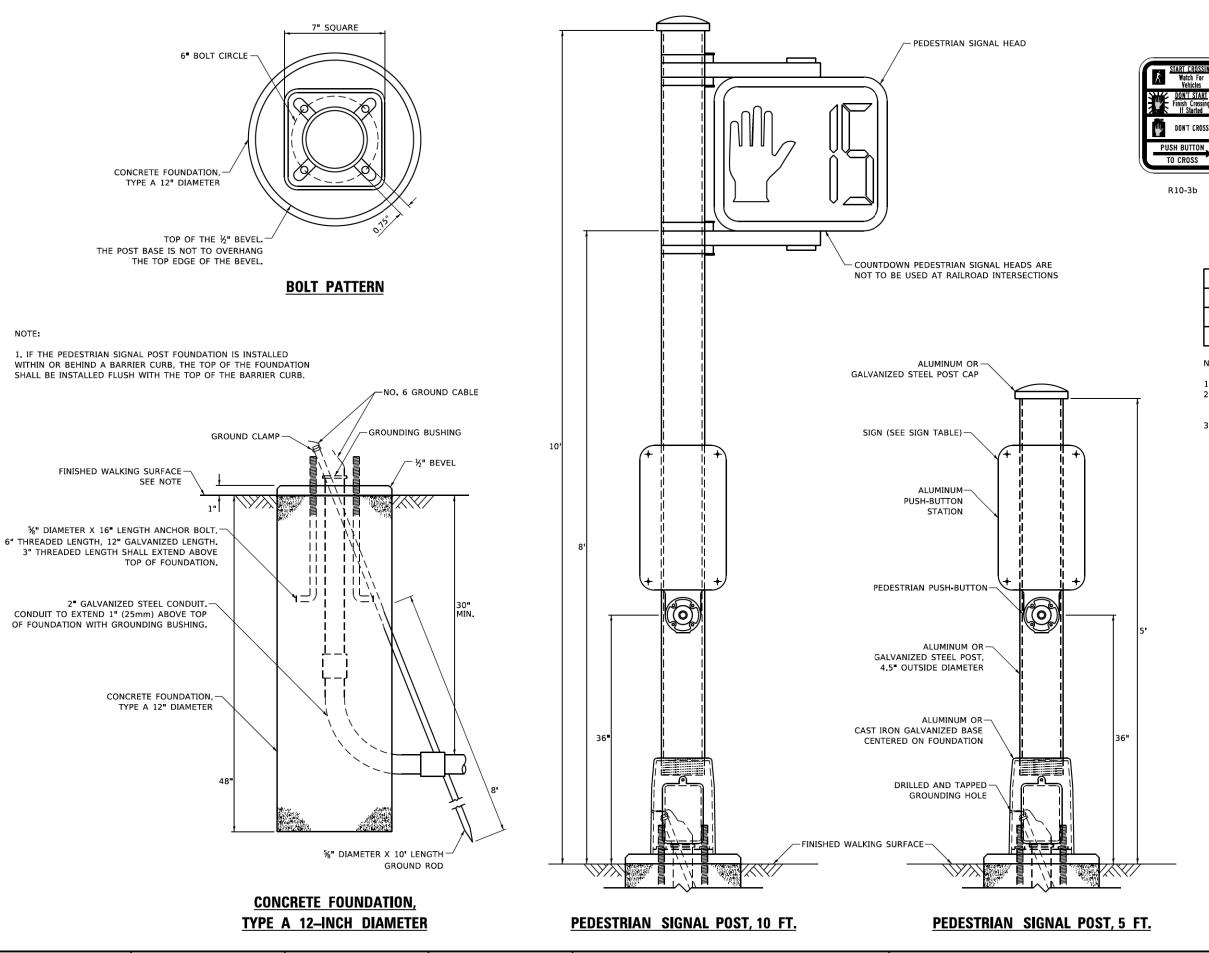
NOTES:

SCALE: NONE

- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SIGN TABLE

DON'T CROSS

TO CROSS

R10-3d

TIME REMAINING To Finish Crossing

DON'T CROSS

PUSH BUTTON

TO CROSS

R10-3e

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:

- 1. THE SIGN PANELS SHALL BE TYPE AP SHEETING. 2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
- 3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

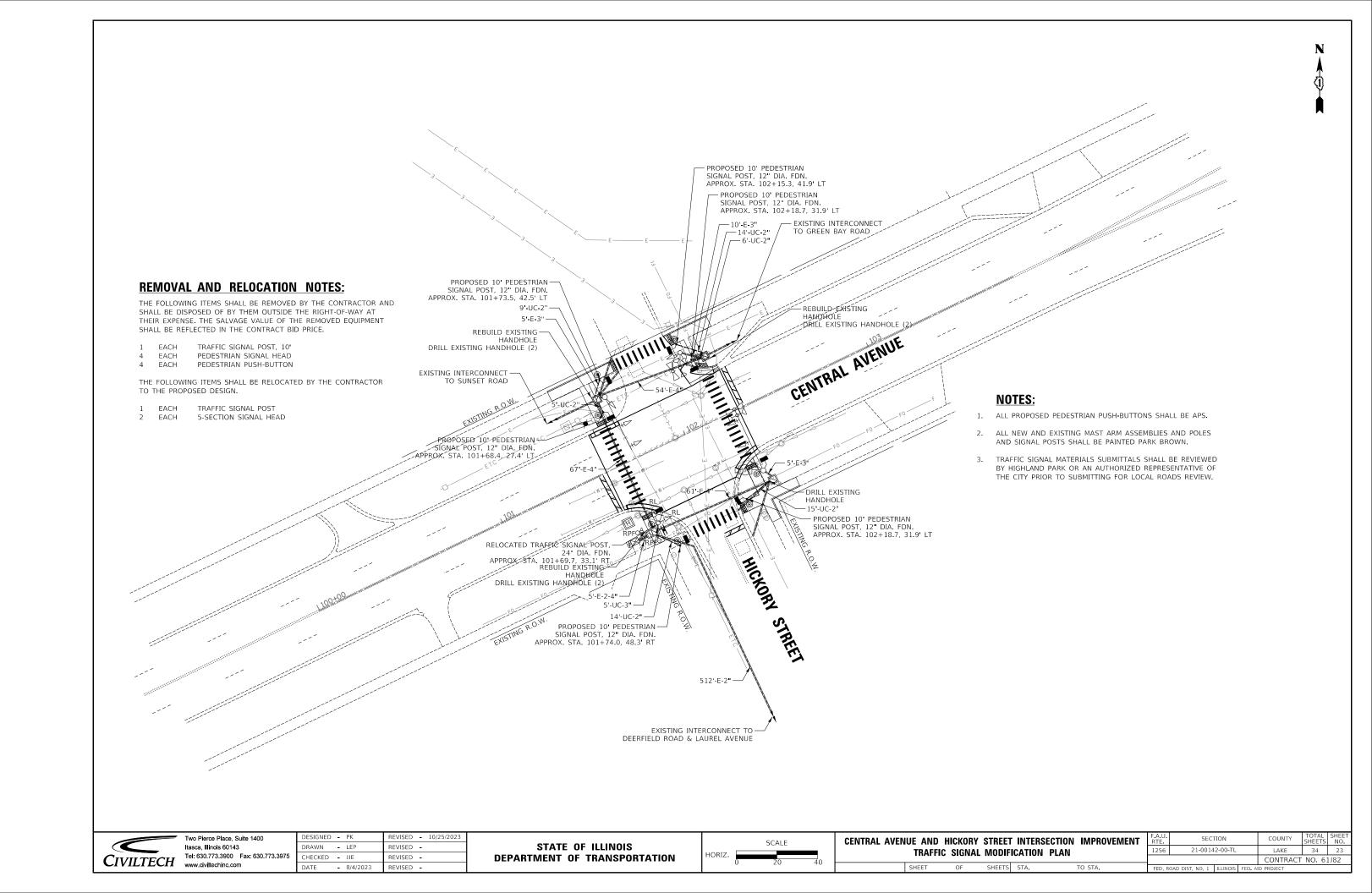
USER NAME = plascenciai	DESIGNED	-	IP	REVISED	-	10/15/2020
	DRAWN	-	IP	REVISED	-	
PLOT SCALE = 100,0000 / in	CHECKED	-	LP	REVISED	-	
PLOT DATE = 11/17/2020	DATE	-	10/15/2018	REVISED	-	

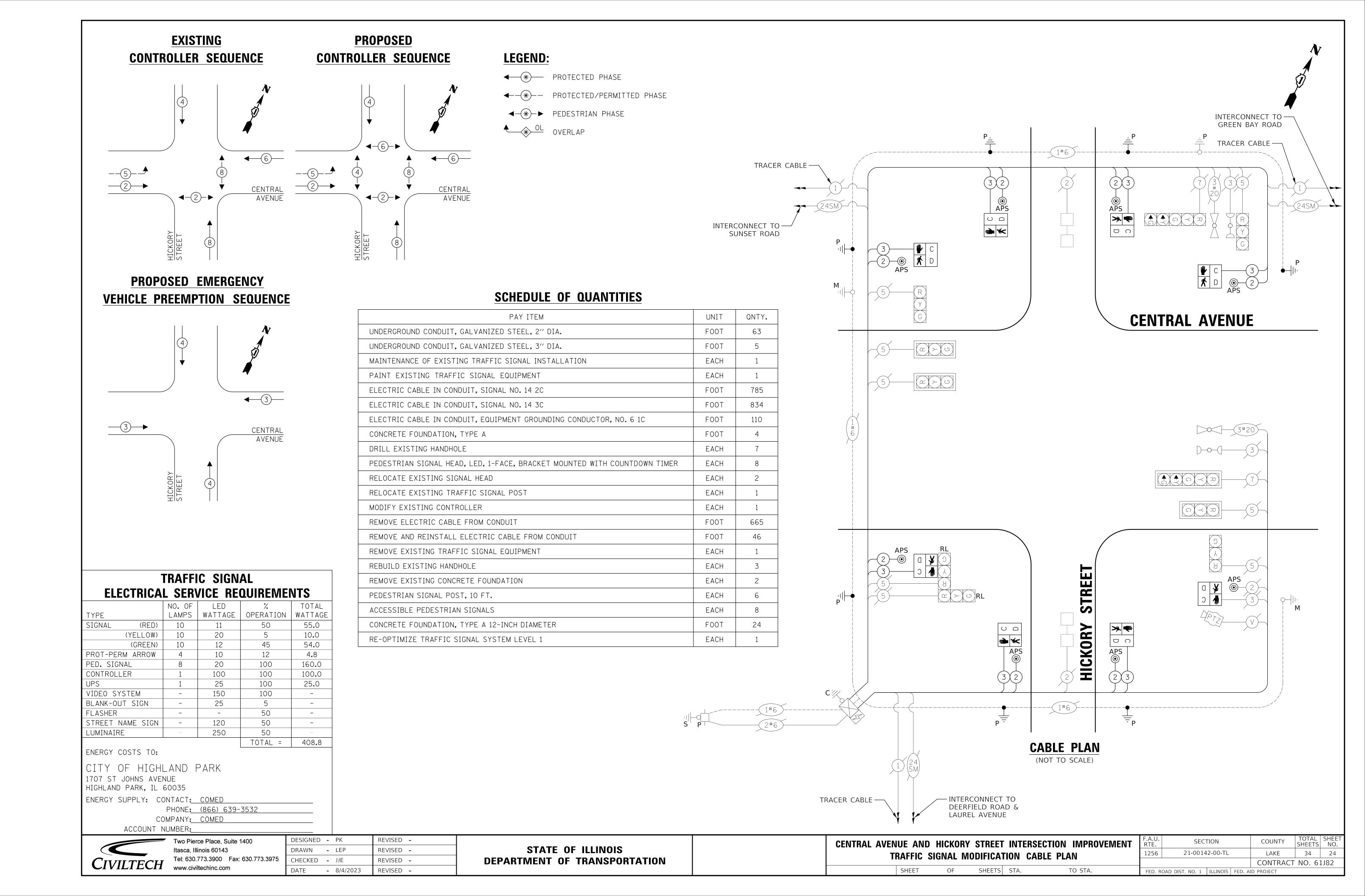
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	DISTRICT ONE									
S	TANDA	RD	TI	RAF	FIC	SIGNAL	. DESIGN	DETAILS		
	CHEET	NO	7	OF	7	CHEETC	CTA	TO	CTA	

SCALE: NTS

		ILLINOIS	FED. A	ID PROJECT		
	TS-05	CONTRACT	NO.	SIJ82		
1256	21-0014	2-00-TL	LAKE	34	22	
RTE.	SECT	ΠΟN		COUNTY	SHEETS	NO.

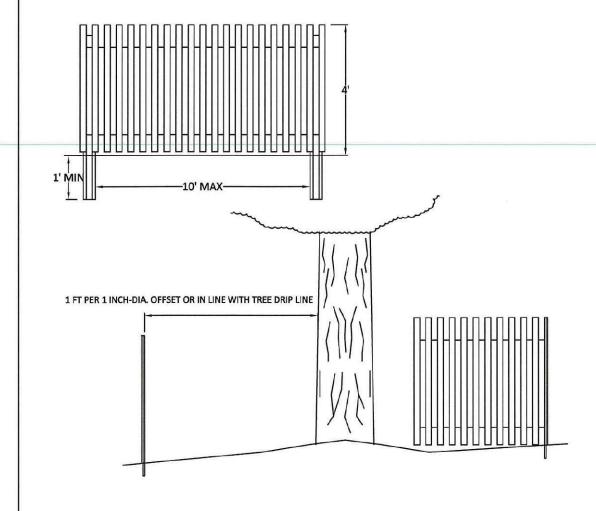




Install & maintain 4' tall wooden slat fence secured to metal posts spaced a maximum of 10' apart. The tree fence shall be 1 foot from the tree trunk for each inch of diameter measured 4.5' from ground level. The fence must be secured to the metal post with a minimum of 4 ties.

Installation shall be approved by the CITY FORESTER before the start of the project.

Failure to install and maintain protective tree fencing in accordance with City Standards will result in a ticket or a "STOP WORK ORDER" on the project.





TREE PROTECTION DETAIL

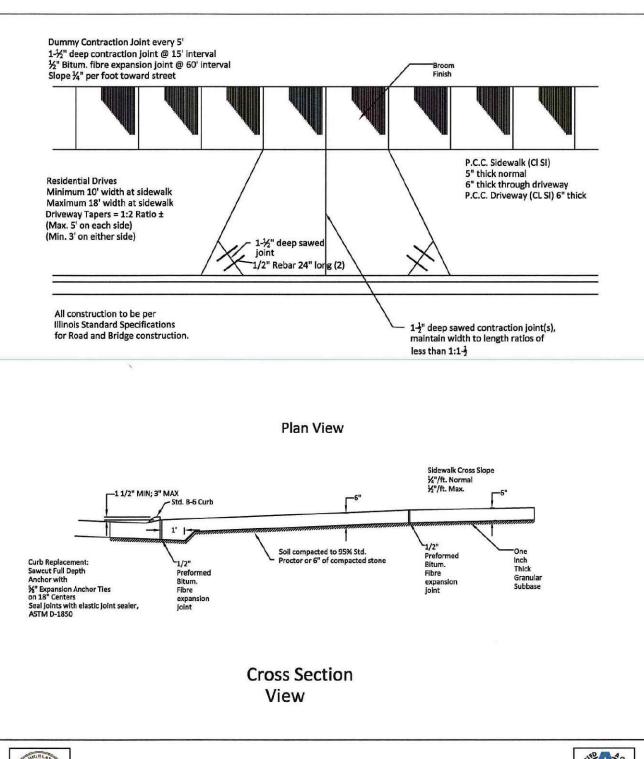


DATE: 27th Sept. 2013

City of Highland Park Department of Public Works 1150 Half Day Rd, Highland Park, IL 60035 H.P. DWG. No. FOR-1041 Drawn By: M.B. Revised By: E.J.

Approved By:J.M.W.

City of Highland Park



Department of Public Works 1150 Half Day Rd, Highland Park, IL 60035

TYPICAL DRIVEWAY & SIDEWALK DETAIL



H.P. DWG. No. STR-1031 Drawn By: M.B. Revised By: E.J.

DATE: 27th Sept. 2013 Approved By:J.M.W.



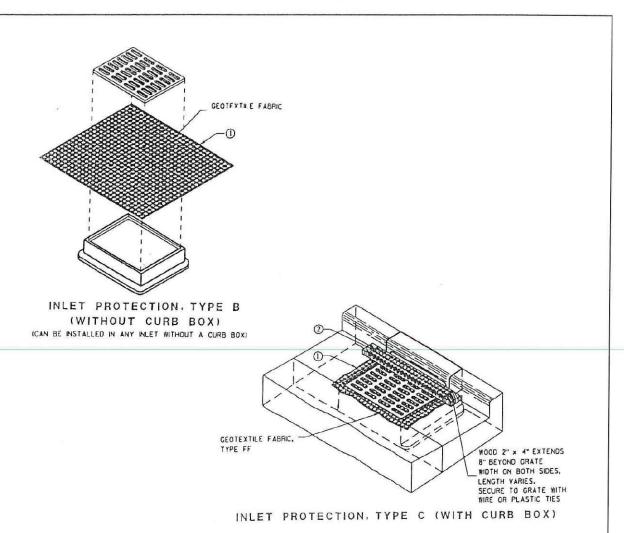
Two Pierce Place, Suite 1400 Itasca, Illinois 60143 Tel: 630.773.3900 Fax: 630.773.397

	DESIGNED	-	PK	REVISED -
	DRAWN	-	JMG	REVISED -
75	CHECKED	-	JRV	REVISED -
	DATE	-	8/4/2023	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

CENTRAL AVEN	IUE AND	HIC	KORY	STREET	INTER	SECTION	IMPROVEMENT	F.A.l RTE
		CITY	STAI	NDARD	DETAILS	9		125
		0111	UIA	VUAIIU	DEIAIL	<u> </u>		
	SHEET	1 C)F 3	SHEETS	STA.	-	TO STA.	FED

SECTION 21-00142-00-TL LAKE 34 25 CONTRACT NO. 61J82



INSTALLATION NOTES:

- 1. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.
- 2. TYPE C SHALL BE UTILIZED WITH CURB HEADS, A $1\frac{1}{2}$ " X $3\frac{1}{2}$ " MINIMUM, PIECE OF LUMBER SHALL BE WRAPPED AND SECURED IN THE FABRIC AND PLACED IN FRONT OF THE CURB HEAD AS SHOWN ON THE PLAN. THE LUMBER SHALL NOT BLOCK THE ENTIRE OPENING OF THE CURB BOX AND BE SECURED TO THE GRATE WITH WIRE OR PLASTIC TIES.
- 3. ALL FABRICS USED AS PART OF AN INLET PROTECTION DEVICE MUST BE SELECTED FROM THE LIST OF APPROVED FABRICS CERTIFIED FOR INLET PROTECTION, GEO-TEXTILE FABRIC, IN ACCORDANCE WITH STATE STANDARD SPECS FOR ROAD AND BRIDGES CONSTRUCTION - JANUARY 1, 2012, ARTICLE 1080.05 ON PAGE 971.



INLET PROTECTION (TYPE B - W/O CURB BOX; TYPE C - W/ CURB BOX)

City of Highland Park Department of Public Works 1150 Half Day Rd, Highland Park, IL 60035 H.P. DWG. No. STR-1037 Drawn By: M.B. Revised By: E.J.

Two Pierce Place, Suite 1400 Itasca, Illinois 60143 Tel: 630.773.3900 Fax: 630.773.397 CIVILTECH Tel: 030.773.3900 From www.civiltechinc.com

	DESIGNED	-	PK	REVISED	-	
	DRAWN	-	JMG	REVISED	-	
75	CHECKED	-	JRV	REVISED	-	
	DATE	-	8/4/2023	REVISED	-	
						_

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

Approved By: J.M.W.

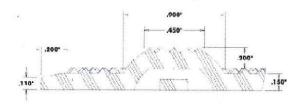
SECTION CENTRAL AVENUE AND HICKORY STREET INTERSECTION IMPROVEMENT 21-00142-00-TL LAKE 34 26 CITY STANDARD DETAILS CONTRACT NO. 61J82 SHEET 2 OF 3 SHEETS STA.

Tuffile ada detectable warning products

PHYSICAL CHARACTERISTICS - POLYMER

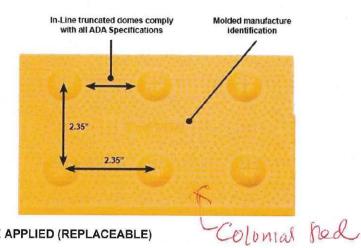
DOME GEOMETRY

ADA (R305.1.1) specifies truncated domes shall have a base diameter of 0.9" minimum, a top diameter of 50% of the base diameter minimum, and a height of 0.2".



DOME SPACING

ADA (R305.1.2) specifies truncated domes shall have a center-center of 1.6" to 2.4"



POLYMER WET-SET (REPLACEABLE) / SURFACE APPLIED (REPLACEABLE)

ASTM C 501	Abrasion Resistance	124 (lower number =
		better wear properties)
ASTM C 1028	Slip Resistance	Dry 1.28, Wet 1.23
ASTM D 570	Water Absorption	0.04%
ASTM D 1308	Chemical Stain Effects	
	-70Hrs/70° C	No Effect
	-Motor Oil	No Effect
	-Antifreeze	No Effect
	-Coffee	No Effect
ASTM B 117	Salt Spray (200 Hrs)	No Change
ASTM D 790	Flexural Strength	3901 psi
ASTM D 638	Tensile Strength	2885 psi
ASTM D 695	Compressive Properties	6844 psi
RCRA-C	Non-Hazardous Classification	Non-Hazardous
ASTM D 1709 (modified)	(Dart Drop Impact Test: 48 lb steel	Nubs flattened on tile, tile
	dart with spherical head and 1.8"	did not crack
	diameter radius dropped from 2 feet equaling 100ft/lbs of force)	

ADA DETECTABLE WARNING PRODUCTS 1200 Flex Court Lake Zurich, IL 60047



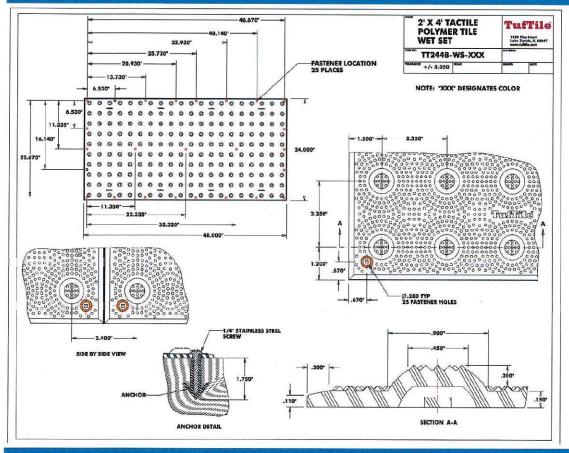
TufTile.com

2' X 4' WET SET

TACTILE TILE 2.350 DOME SPACING

(REPLACEABLE)

TEL 888-960-8897 FAX 847-550-8004 www.tuftile.com

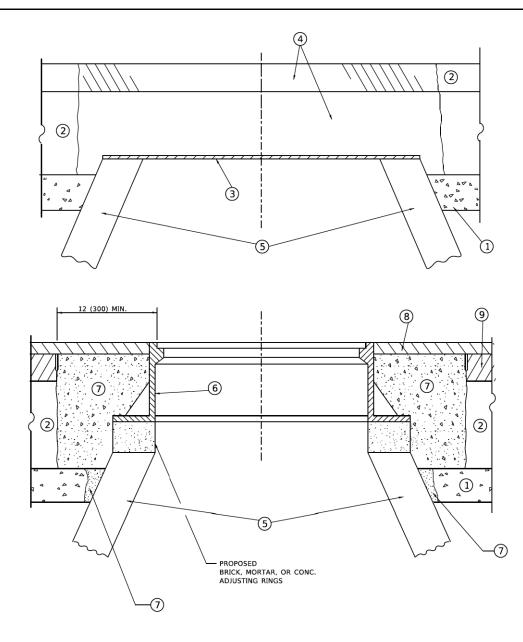


Colonial Red (City of Highland Fork)

REVISED -STATE OF ILLINOIS DRAWN - JMG REVISED -Tel: 630.773.3900 Fax: 630.773.3975 CHECKED - JRV REVISED -**DEPARTMENT OF TRANSPORTATION** - 8/4/2023 REVISED -

CENTRAL AVEN	IUE AN	D H	IICKO	RY	STREET	INTERSECTION	IMPROVEMENT	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CI	rv s	TAN	INΔRN	DETAILS		1256	21-00142-00-TL	LAKE	34	27
		0.		IAN	IDAIID	DETAILO				CONTRACT	NO. 6	1J82
	SHEET	3	OF	3	SHEETS	STA.	TO STA.	FED, R	DAD DIST, NO. 1 ILLINOIS FED. A	ID PROJECT		





DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

NOTES

- 1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- 2. IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
- 3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- 4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- 5. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

STAGE 1 (BEFORE PAVEMENT MILLING)

CONSTRUCTION PROCEDURES

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- *UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- (6) FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT
- (7) CLASS PP-2* CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- 8 PROPOSED HMA SURFACE COURSE
- 4 PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (9) PROPOSED HMA BINDER COURSE
- (5) EXISTING STRUCTURE

LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

- 1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
- 2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
- 3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
- 4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

DESIGNED -REVISED - R. BORO 03-09-11 JSER NAME = Lawrence DeManche R. SHAH DRAWN REVISED - R. BORO 12-06-11 CHECKED REVISED - K. SMITH 11-18-22 PLOT SCALE = 100,0000 / in. DATE 10-25-94 REVISED K. SMITH 09-15-23

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING SHEET 1 OF 1 SHEETS STA.

SCALE: NONE

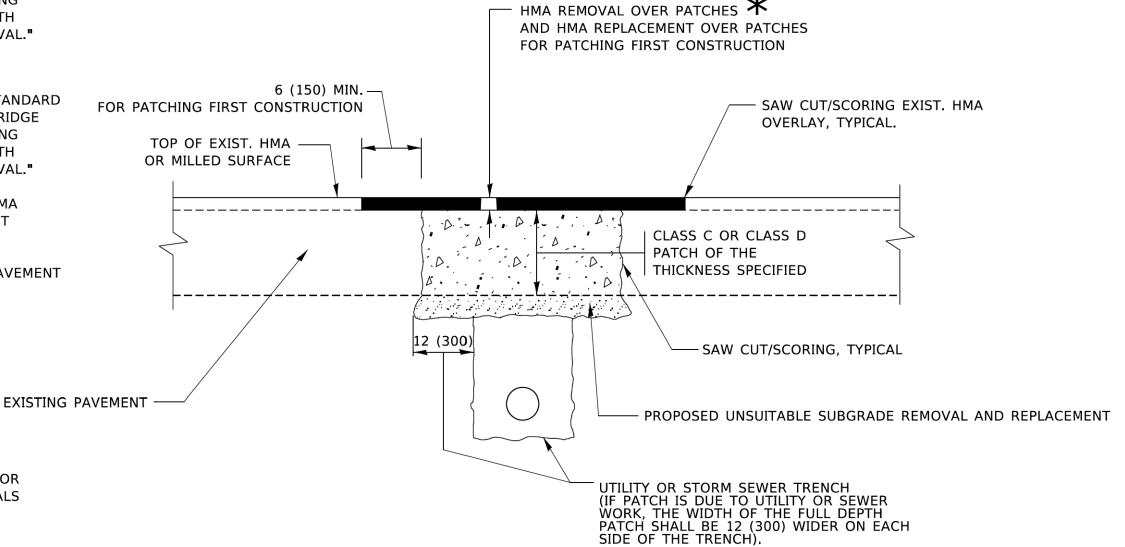
21-00142-00-T LAKE 34 BD600-03 (BD-08) CONTRACT NO. 61J82

METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

BASIS OF PAYMENT

- 1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
- SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
- 3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEE TYPICAL SECTIONS FOR

THICKNESS AND MATERIALS

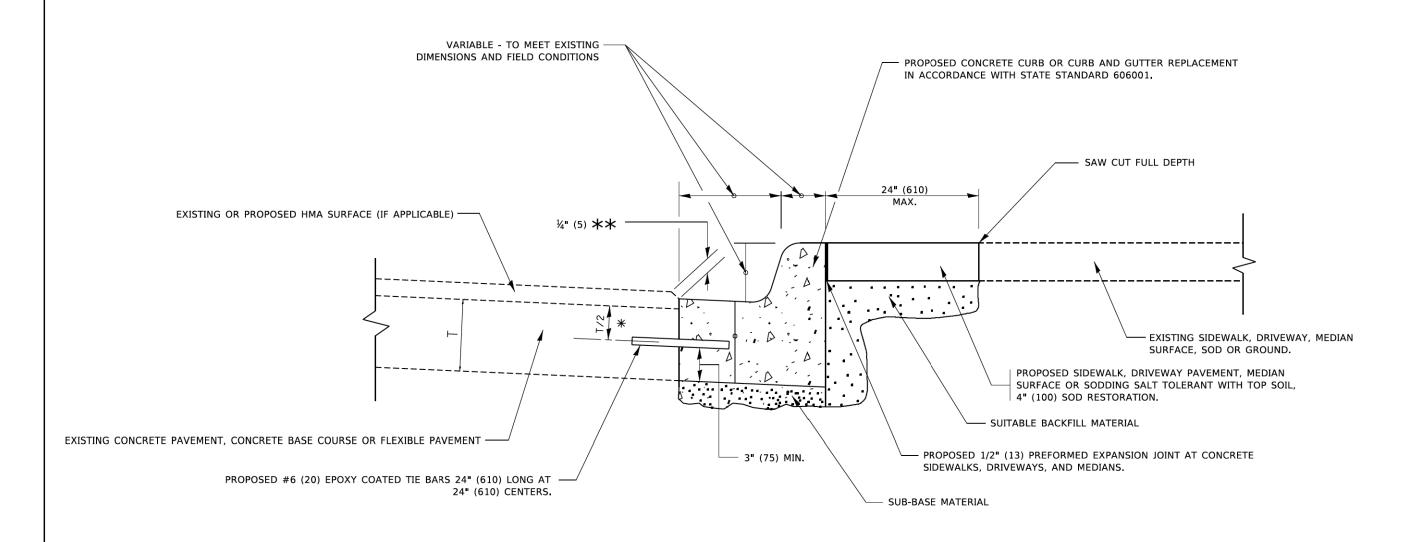
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = Lawrence DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07		PAVEMENT PATCHING FOR		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED - R. BORO 09-04-07	STATE OF ILLINOIS	HMA SURFACED PAVEMENT	1256	21-00142-00-TL	LAKE	34	29
PLOT SCALE = 100.0000 / in	CHECKED -	REVISED - K. ENG 10-27-08	DEPARTMENT OF TRANSPORTATION	HIMA SUNFACED PAVEINENT		BD400-04 (BD-22)	CONTRACT NO. 61J82		J82
PLOT DATE = 11/18/2022	DATE _ 10-25-94	REVISED _ K SMITH 11-18-22		SCALE: NONE SHEET 1 OF 1 SHEETS STA TO STA		THINOIS	EED AID BROIECT		



- ₹ 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

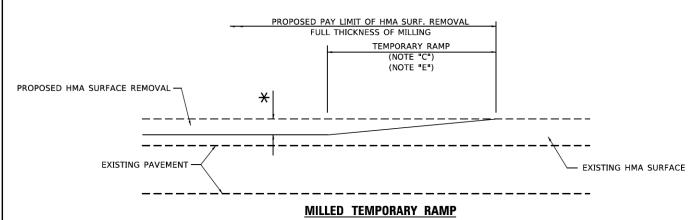
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = footemj	DESIGNED - A. HOUSEH	REVISED -	A. ABBAS 03-21-97
	DRAWN -	REVISED -	M. GOMEZ 01-22-01
PLOT SCALE = 50.0000 ' / In.	CHECKED -	REVISED -	R. BORO 12-15-09
PLOT DATE - 7/11/2019	DATE 03-11-94	REVISED	K SMITH 07-11-19

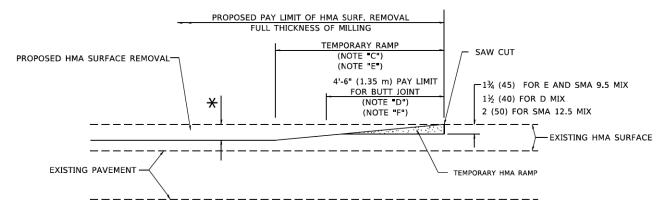
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

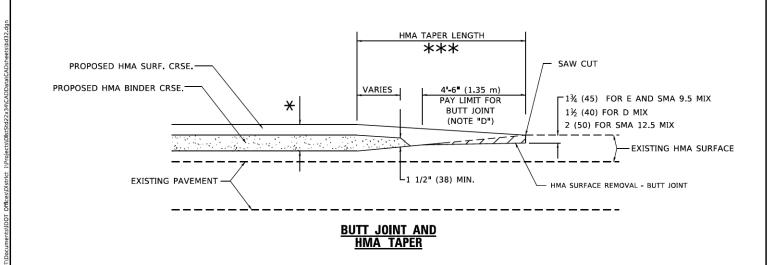


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP

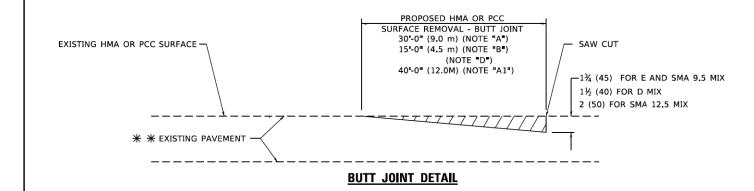


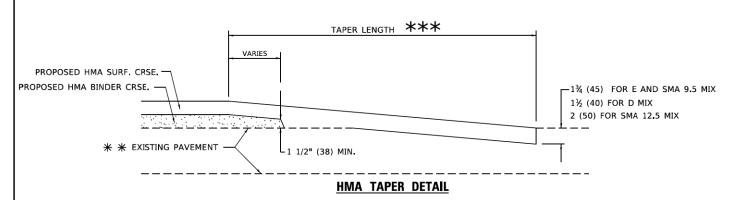
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. SECTION COUNTY TOTAL SHEETS NC 1256 21-00142-00-TL LAKE 34 3:

BD400-05 BD-32 CONTRACT NO. 61J82





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT

GENERAL NOTES

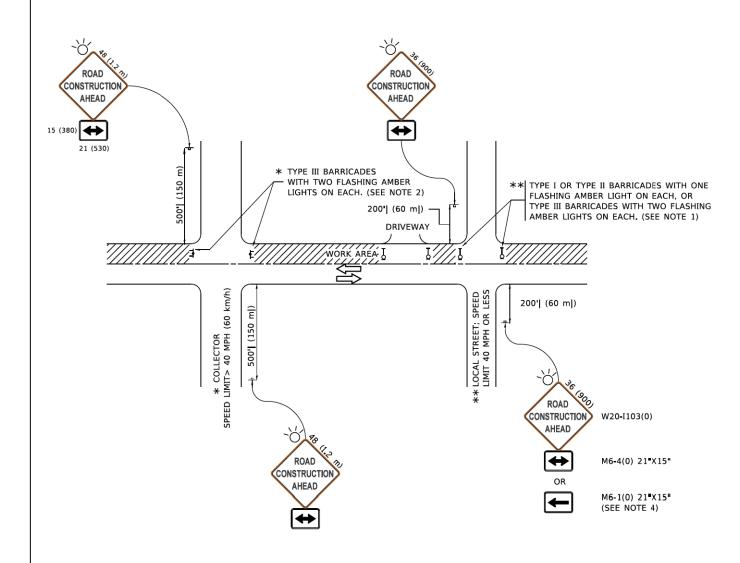
- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP, RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP, RAMP AT A RATE OF 3' 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - ★ SEE TYPICAL SECTIONS FOR MILLING THICKNESS
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL-BUTT JOINT".
- THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

SCALE: NONE

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



NOTES:

- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY
 b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION
 OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710)
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE
 4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL
 BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

SCALE: NONE

- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

COUNTY

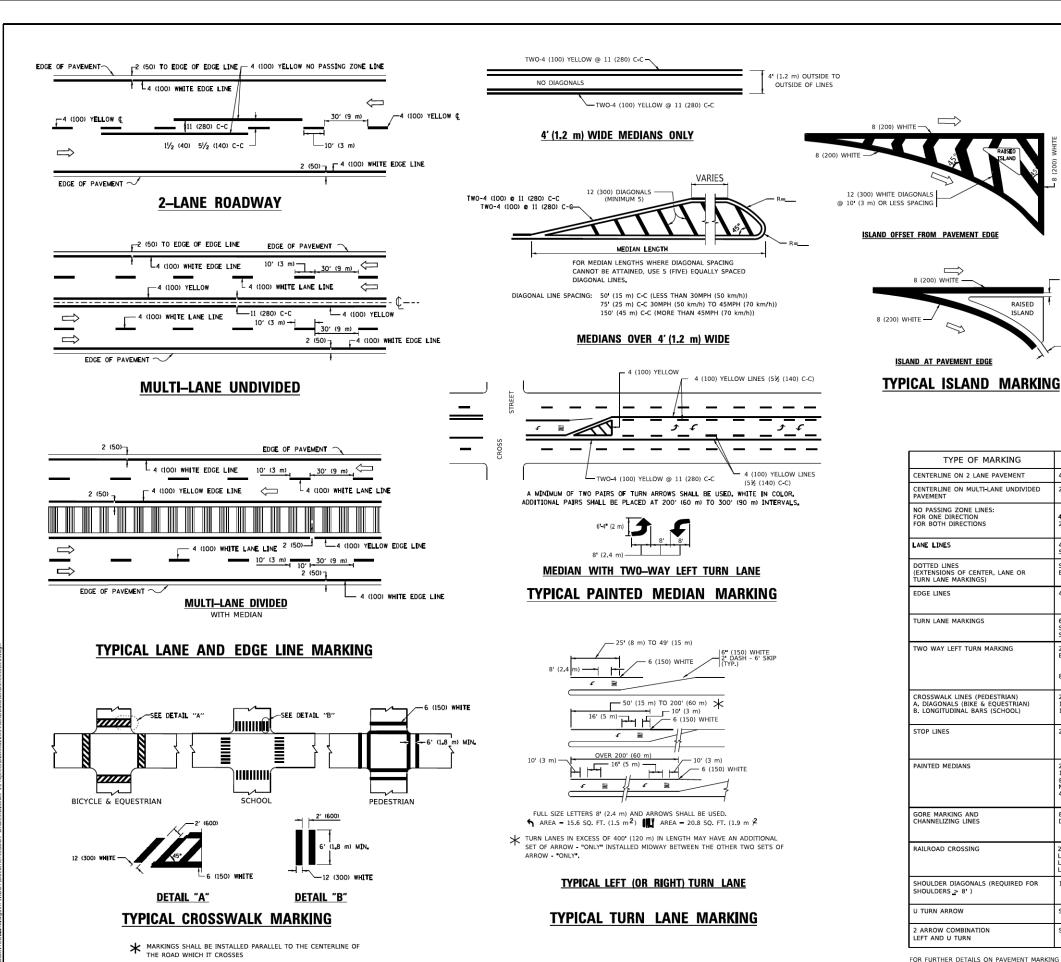
CONTRACT NO. 61J82

TOTAL SHEET NO. 34 32

USER NAME = footemj	DESIGNED L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50.0000 ' / In.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED _ A. SCHUETZE 09-15-16

STATI	E OF	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

						F.A.U. RTE	SECTION		
eı	DE BO	۸ns	INT	:De	EFCTIONS	AND	DRIVEWAYS	1256	21-00142-00-TL
וכ	DL NO	ADJ	, 11411	.111	LUTIONS	, AND	DINVEVVATO		TC-10
	SHEET	1	OF	1	SHEETS	STA.	TO STA.		ILLINOIS FED



COMBINATION LEFT AND U-TURN 2 (50) ▼ 32 R (810) 2 (50) LANE REDUCTION TRANSITION 40 (1020) * LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS. **U-TURN** WIDTH OF LINE PATTERN COLOR SPACING / REMARKS SKIP-DASH 10' (3 m) LINE WITH 30' (9 m) SPACE 5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN 4 (100) 2 @ 4 (100) SKIP-DASH SKIP-DASH 10' (3 m) LINE WITH 30' (9 m) SPACE (125) ON FREEWAYS SAME AS LINE BEING EXTENDED SKIP-DASH SAME AS LINE BEING EXTENDED 2' (600) LINE WITH 6' (1.8 m) SPACE SOLID YELLOW-LEFT WHITE-RIGHT OUTLINE MEDIANS IN YELLOW 6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m)) SOLID SEE TYPICAL TURN LANE MARKING DETAIL WHITE SKIP-DASH AND SOLID IN PAIRS 10' (3 m) LINE WITH 30' (9 m) SPACE FOR 2 @ 4 (100) EACH DIRECTION **ELLOW** SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 5' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS, PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE SOLID WHITE 2 @ 4 (100) WITH 12 (300) DIAGONALS SOLID 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC

D(FT)

665

750

SPEED LIMIT

50

55

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

SCALE: NONE

RAISED

4 (100)

24 (600)

NO DIAGONALS USED FO 4' (1.2 m) WIDE MEDIAN

8 (200) WITH 12 (300) DIAGONALS @ 45°

SEE DETAIL

SEE DETAIL

SOLID

SOLID

SOLID

SOLID

WHITE

TYPE OF MARKING

DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))

50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

All dimensions are in inches (millimeters)

unless otherwise shown.

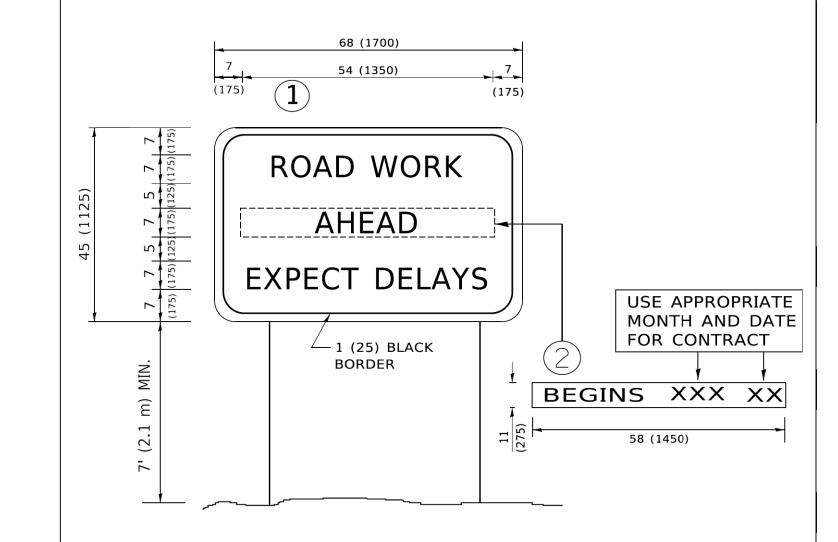
SEE STATE STANDARD 780001

30.4 SF

USER NAME = footemj	DESIGNED	-	EVERS	REVISED	-	C. JUCIUS 09-09-09
	DRAWN	-		REVISED	-	C. JUCIUS 07-01-13
PLOT SCALE = 50.0000 ' / In.	CHECKED	-		REVISED	-	C. JUCIUS 12-21-15
PLOT DATE = 3/4/2019	DATE	-	03-19-90	REVISED	-	C. JUCIUS 04-12-16

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE					NE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE	
TYPICAL PAVEMENT MARKINGS				ice	1256	21-00142-00-TL	LAKE	34	33		
TIFICAL PAVEINENT INANKINGS		vu3		TC-13	CONTRACT NO.		1J82				
SHEET	1	OF	2	SHEETS	STA.	TO STA.		TILINOIS FED A	ID PROJECT		



NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN(1)WITH INSTALLED PANEL(2)ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL 2 SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

SCALE: NONE

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = footemj	DESIGNED -	REVISED	-	R. MIRS 09-15-97
	DRAWN -	REVISED	-	R. MIRS 12-11-97
PLOT SCALE = 50,0000 ' / In.	CHECKED -	REVISED	-T.	RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED		C. JUCIUS 01-31-07

STATE OF ILLINOIS										
DEPARTMENT	OF	TRANSPORTATION								

ARTERIAL ROAD INFORMATION SIGN					AD		F.A.U. RTE.	SECTION		TOTAL SHEETS	SHEET NO.
					SIGN		1256	21-00142-00-TL	LAKE	34	34
							TC-22		CONTRACT NO. 61J82		
ET 1	(ϽF	1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				