

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	1
		ILLINOIS	CONTRACT NO. 61G78	

01-15-2021 LETTING ITEM 068  
 FOR INDEX OF SHEETS, SEE SHEET NO. 2  
 FOR LIST OF HIGHWAY STANDARDS SEE SHEET NO. 2

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED  
 FEDERAL AID HIGHWAY

FAP 345 US ROUTE 20 (LAKE STREET)  
 WALNUT AVENUE TO CENTER AVENUE  
 TRAFFIC SIGNAL AND SIDEWALK IMPROVEMENTS  
 SECTION: 13-00056-00-SW  
 PROJECT: 3P24(034)  
 VILLAGE OF STREAMWOOD  
 COOK COUNTY

TRAFFIC DATA

ADT: 2019 TRAFFIC  
 US ROUTE 20 (LAKE STREET) 38,400 VPD

ROADWAY

US ROUTE 20 (LAKE STREET) 40 MPH

SPEED POSTED

DESIGN DESIGNATION

FAP 345 US ROUTE 20 (LAKE STREET) - OTHER PRINCIPAL ARTERIAL

PROFESSIONAL ENGINEER'S SIGN & SEAL  
 APPLIES TO SHEETS: 1 - 21 & 42 - 44

JEFFREY J. STRZALKA, P.E.  
 EXPIRES: 11-30-21



LOCATION OF SECTION INDICATED THUS: - [Symbol] -



420 NORTH FRONT STREET, SUITE 100 | McHENRY, ILLINOIS 60050  
 Phone: 815.385.1778 | Toll Free: 800.728.7805 | Fax: 815.385.1781 | HRGreen.com  
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

APPROVED OCTOBER 5 2020  
[Signature]  
 VILLAGE OF STREAMWOOD

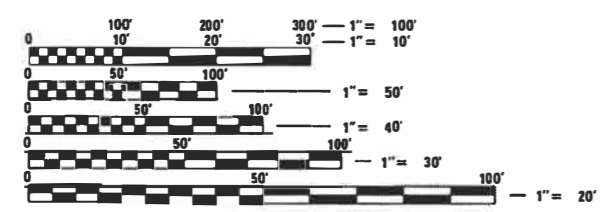
APPROVED OCTOBER 5 2020  
[Signature]  
 VILLAGE OF HANOVER PARK

PASSED OCT. 26 2020  
[Signature]  
 DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID  
 BASED ON LIMITED REVIEW OCTOBER 27 2020  
[Signature]  
 REGIONAL ENGINEER

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 OF THE STATE OF ILLINOIS

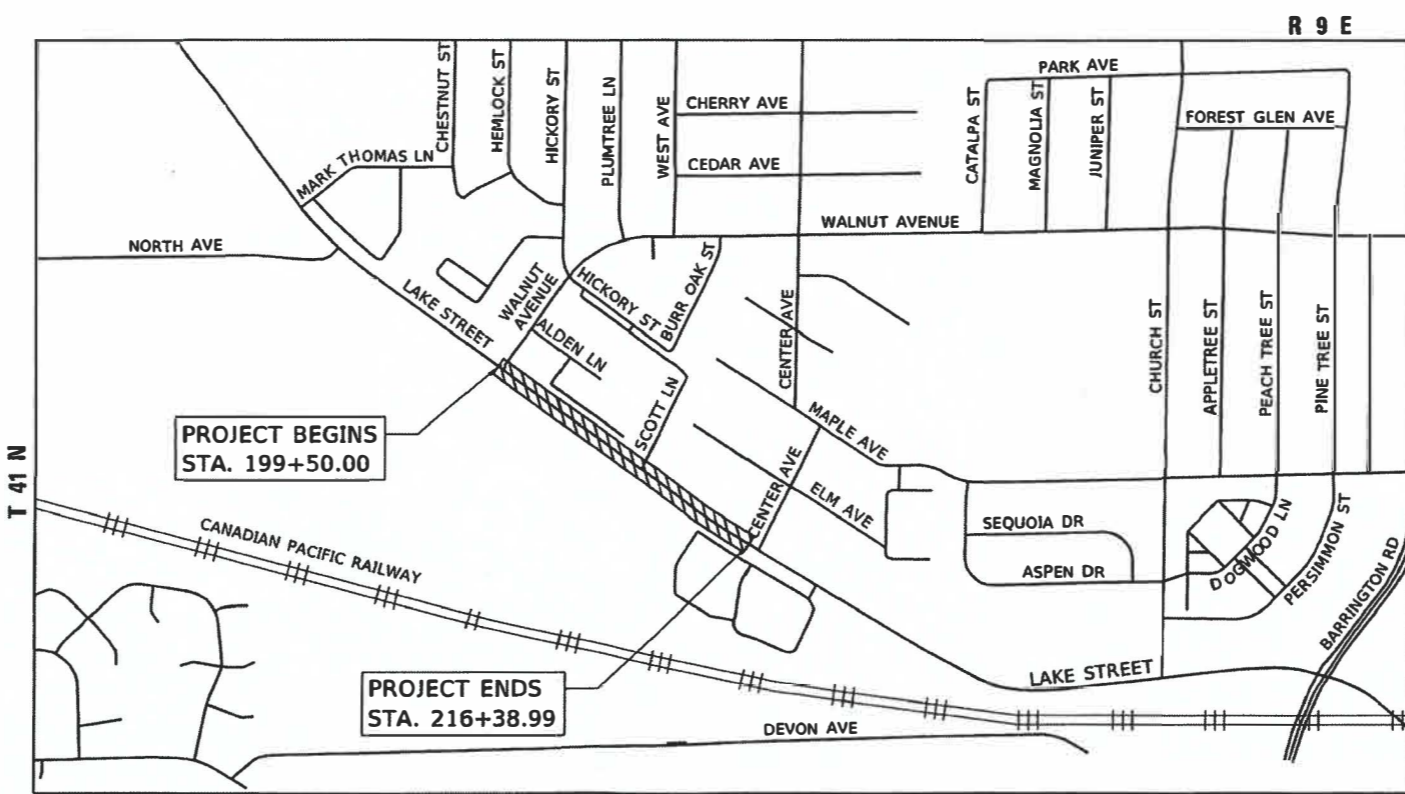
FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E. SCHAUMBURG, IL



FULL SIZE PLANS HAVE BEEN PREPARED USING STANOARO ENGINEERING SCALES. REDUCED SIZE PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT LOCATED IN THE  
 VILLAGE OF STREAMWOOD &  
 THE VILLAGE OF HANOVER PARK



LOCATION MAP  
 N.T.S.

PROJECT LENGTH

NET AND GROSS LENGTH OF PROJECT = 1,954 FT. = 0.37 MILE

CONTRACT NO. 61G78

**INDEX OF SHEETS**

1	COVER SHEET
2	INDEX OF SHEETS AND STATE STANDARDS
3 - 5	SUMMARY OF QUANTITIES
6	TYPICAL SECTIONS
7	ALIGNMENT, TIES AND BENCHMARKS
8 - 9	REMOVAL PLAN
10 - 13	SIDEWALK PLAN AND PROFILE
14 - 15	EROSION CONTROL & LANDSCAPING PLAN
16 - 25	TRAFFIC SIGNAL PLAN
26 - 27	SIDEWALK RAMP GRADING DETAILS
28 - 32	DISTRICT ONE DETAILS
33 - 39	CROSS SECTIONS - US ROUTE 20 - LAKE STREET

**DISTRICT DETAILS**

BD24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BD36	FIRE HYDRANTS TO BE MOVED
TC10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC22	ARTERIAL ROAD INFORMATION SIGN
TS05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (7 SHEETS)

**STATE STANDARDS**

STANDARD NO.	LIST OF DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS LESS THAN OR EQUAL TO 40 MPH
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

**GENERAL NOTES**

- ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, APRIL 1, 2016. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.
- IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, EXISTING SITE CONDITIONS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT.
- ALL ELEVATIONS SHOWN ON THE PLANS ARE ON THE NAVD88 DATUM.
- FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123) TO HAVE THE LOCATION OF EXISTING UTILITIES STAKED. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE ENTRANCES ALONG THE LIMITS OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
- SAW CUTTING WILL BE REQUIRED FOR ALL REMOVAL ITEMS AND SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE IN THE PORTION REMAINING
- DRIVEWAYS ARE TO BE CONSTRUCTED TO THE R.O.W. UNLESS OTHERWISE NOTED.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
- THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN CONSENT FROM THE DEPARTMENT.
- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE MOST RECENT VERSION OF THE ILLINOIS URBAN MANUAL. SEE EROSION NOTES AND DETAILS FOR ADDITIONAL INFORMATION.
- WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION, NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- THE INDISCRIMINATE USE OF FIRE HYDRANTS, EXISTING STREAMS, CREEKS, WETLANDS, OR PONDS IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK AND DRIVER AS REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER FROM AN APPROVED SOURCE. IF THIS WATER IS FROM A SOURCE OTHER THAN HIS YARD, WRITTEN APPROVAL FROM THE AGENCY HAVING JURISDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE CONTRACTOR PRIOR TO THE USE OF THE WATER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SWEEPING AND CLEANING STREETS OF ANY DEBRIS AND MATERIAL THAT HAS ACCUMULATED AS A RESULT OF THE CONSTRUCTION ACTIVITY. A MECHANICAL SWEEPER, MECHANICALLY DRIVEN AIR AND HANDWORK WITH SHOVEL AND BROOM SHALL BE UTILIZED TO PROVIDE A CLEAN STREET FOR THE MOTORING PUBLIC. WITHIN 24 HOURS OF PLACING PRIME COAT AND THE LAYING OF HMA, THE CONTRACTOR SHALL SWEEP THE PAVEMENT AND REMOVE STANDING WATER, EARTH, WEEDS, LEAVES, DIRT, CONSTRUCTION DEBRIS, AND ALL LOOSE MATERIAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.
- THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
- OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE PROPOSED SIDEWALK GRADE LINE (PGL).
- SIGNS SHALL NOT BE MOVED OR COVERED UNTIL PROGRESS OF WORK NECESSITATES IT.
- THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SUCH SIGNS THAT INTERFERE WITH HIS CONSTRUCTION OPERATIONS. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING AND MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED.
- LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS. THIS WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 729 OF THE STANDARD SPECIFICATIONS.
- ALL SIGNS SHALL BE INSTALLED IN PERMANENT LOCATIONS AS THE SIDEWALK IS COMPLETED.
- TREES TO BE PROTECTED DURING CONSTRUCTION WILL BE IDENTIFIED BY THE ENGINEER AND RECEIVE PROTECTION IN ACCORDANCE WITH THE DETAILS PROVIDED IN THE PLANS.
- THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL PLANT MATERIAL WITH THE INSTALLATION OF OTHER IMPROVEMENTS SUCH AS HARDSCAPE ELEMENTS AND RELATED STRUCTURES. ANY DAMAGE TO EXISTING IMPROVEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL STAKE ALL TREE LOCATIONS PRIOR TO INSTALLATION AND CONTACT THE RESIDENT ENGINEER FOR APPROVAL. FINAL LOCATION AND STAKING OF ALL PLANT MATERIALS SHALL BE APPROVED BY THE RESIDENT ENGINEER IN ADVANCE OF PLANTING. IF CONFLICTS ARISE BETWEEN THE SIZE OF AREAS AND PLANS, THE CONTRACTOR IS REQUIRED TO CONTACT THE RESIDENT ENGINEER FOR RESOLUTION PRIOR TO INSTALLATION.
- ALL PLANTS SHALL BE NURSERY GROWN PLANTS MEETING AMERICAN NURSERY AND LANDSCAPE ASSOCIATION (ANLA) STANDARDS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1-2004). PLANTS ARE TO BE TYPICAL IN SHAPE AND SIZE FOR SPECIES. PLANTS PLANTED IN ROWS OR GROUPS SHALL BE MATCHED IN FORM. PLANTS SHALL NOT BE ROOT-BOUND OR LOOSE IN THEIR CONTAINERS. HANDLE ALL PLANTS WITH CARE IN TRANSPORTING, PLANTING AND MAINTENANCE UNTIL INSPECTION AND FINAL ACCEPTANCE.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALDANA.KANNAN-HOSAOUZGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

**COMMITMENTS**

NONE.

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PLOT DATE = 11/22/2020	DATE - XX/XX/XXXX	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)  
INDEX OF SHEETS, DISTRICT DETAILS & STATE STANDARDS**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	2
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G78	

HRG PROJECT NO.: 170094  
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PLOT DATE = 11/2/2020	DATE - XX/XX/XXXX	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>US ROUTE 20 (LAKE STREET)          SUMMARY OF QUANTITIES</b>			
SCALE: N.T.S.	SHEET 1 OF 3 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	3
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G78	

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
					CMAQ 80% FED/20% LOCAL 0021
+	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	54	54
* +	20101200	TREE ROOT PRUNING	EACH	5	5
	20200100	EARTH EXCAVATION	CU YD	65	65
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	425	425
	20400800	FURNISHED EXCAVATION	CU YD	75	75
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1895.0	1895.0
+	25200110	SODDING, SALT TOLERANT	SQ YD	1895.0	1895.0
* +	25200200	SUPPLEMENTAL WATERING	UNIT	11	11
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	40	40
	28000400	PERIMETER EROSION BARRIER	FOOT	1490.0	1490.0
	28000510	INLET FILTERS	EACH	13	13
	31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	950.0	950.0
* +	42300600	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 10 INCH	SQ YD	220.0	220.0
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	8525.0	8525.0
* +	42400800	DETECTABLE WARNINGS	SQ FT	97.0	97.0
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	215.0	215.0
	44000600	SIDEWALK REMOVAL	SQ FT	915.0	915.0
+	56400800	FIRE HYDRANT AND VALVE TO BE MOVED	EACH	1	1
	60250400	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	2	2
	60255500	MANHOLES TO BE ADJUSTED	EACH	1	1

\* SPECIAL PROVISION

+ SPECIALTY ITEM

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				CMAQ 80% FED/20% LOCAL 0021
60260100	INLETS TO BE ADJUSTED	EACH	1	1
* + 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	600	600
* + 66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3
* + 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 DAY	15	15
67100100	MOBILIZATION	L SUM	1	1
* 70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	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
+ 72000100	SIGN PANEL - TYPE 1	SQ FT	7.0	7.0
+ 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	15.0	15.0
+ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	272.0	272.0
* + 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	153.0	153.0
* + 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1
* + 85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	4	4
* + 87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	3	3
* + 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1104.0	1104.0
* + 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1146.0	1146.0
* + 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	850.0	850.0

\* SPECIAL PROVISION  
+ SPECIALTY ITEM



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 PLOT DATE = 11/2/2020

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)  
 SUMMARY OF QUANTITIES  
 SCALE: N.T.S. SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G78	

HRG PROJECT NO.: 171694  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

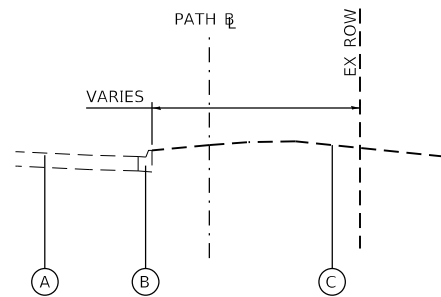
**US ROUTE 20 (LAKE STREET)  
 SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G78	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				CMAQ 80% FED/20% LOCAL 0021
+ 87900200	DRILL EXISTING HANDHOLE	EACH	4	4
* + 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6	6
* + 88800100	PEDESTRIAN PUSH-BUTTON	EACH	6	6
+ 89502200	MODIFY EXISTING CONTROLLER	EACH	1	1
+ 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	422.0	422.0
* + 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1
* + 89502376	REBUILD EXISTING HANDHOLE	EACH	1	1
+ A2000192	TREE, ACER X FREEMANII AUTUMN FANTASY (AUTUMN FANTASY FREEMAN MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	3	3
* + A2002879	TREE, CELTIS OCCIDENTALIS CHICAGOLAND, (CHICAGOLAND COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	5	5
* X0326806	WASHOUT BASIN	L SUM	1	1
* + X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4	4
* X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	50.0	50.0
* X4400220	CURB REMOVAL AND REPLACEMENT	FOOT	60.0	60.0
* X4400221	CURB REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	50.0	50.0
* X4400501	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	30	30
* + X7240505	RELOCATE SIGN PANEL AND POST	EACH	3	3
+ X8780010	CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	16.0	16.0
* Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	170.0	170.0
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
* Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	78	78
* + Z0033044	RE OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1	1

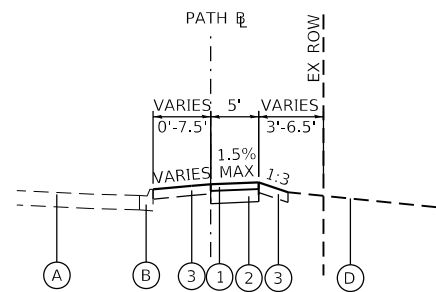
\* SPECIAL PROVISION  
 + SPECIALTY ITEM



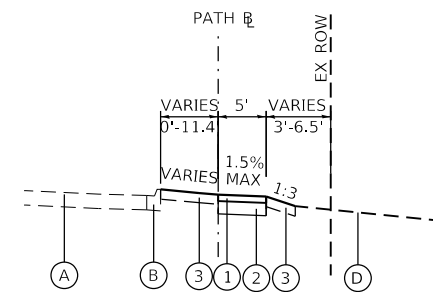
**EXISTING TYPICAL SECTION**  
**US ROUTE 20 (LAKE STREET)**  
 STA 199+50 TO STA 216+38.99

**EXISTING LEGEND**

- (A) EXISTING PCC PAVEMENT
- (B) EXISTING CONCRETE CURB AND GUTTER; TYPE B-6.24
- (C) EXISTING GROUND



**PROPOSED TYPICAL SECTION**  
**US ROUTE 20 (LAKE STREET)**  
 STA 212+25.00 TO STA 216+38.99



**PROPOSED TYPICAL SECTION**  
**US ROUTE 20 (LAKE STREET)**  
 STA 199+50.00 TO STA 212+25.00

**PROPOSED LEGEND**

- (1) PCC SIDEWALK, 5 INCH
- (2) SUBBASE GRANULAR MATERIAL, TYPE B; 4" (CA-6 CRUSHED STONE OR CRUSHED AGGREGATE)
- (3) SODDING, SALT TOLERANT AND TOPSOIL FURNISH AND PLACE, 4"

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 PEN TABLE: 17094.tbl



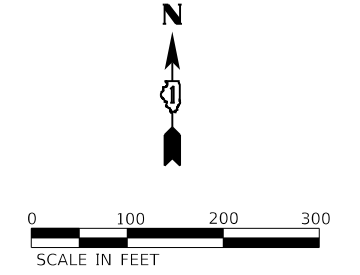
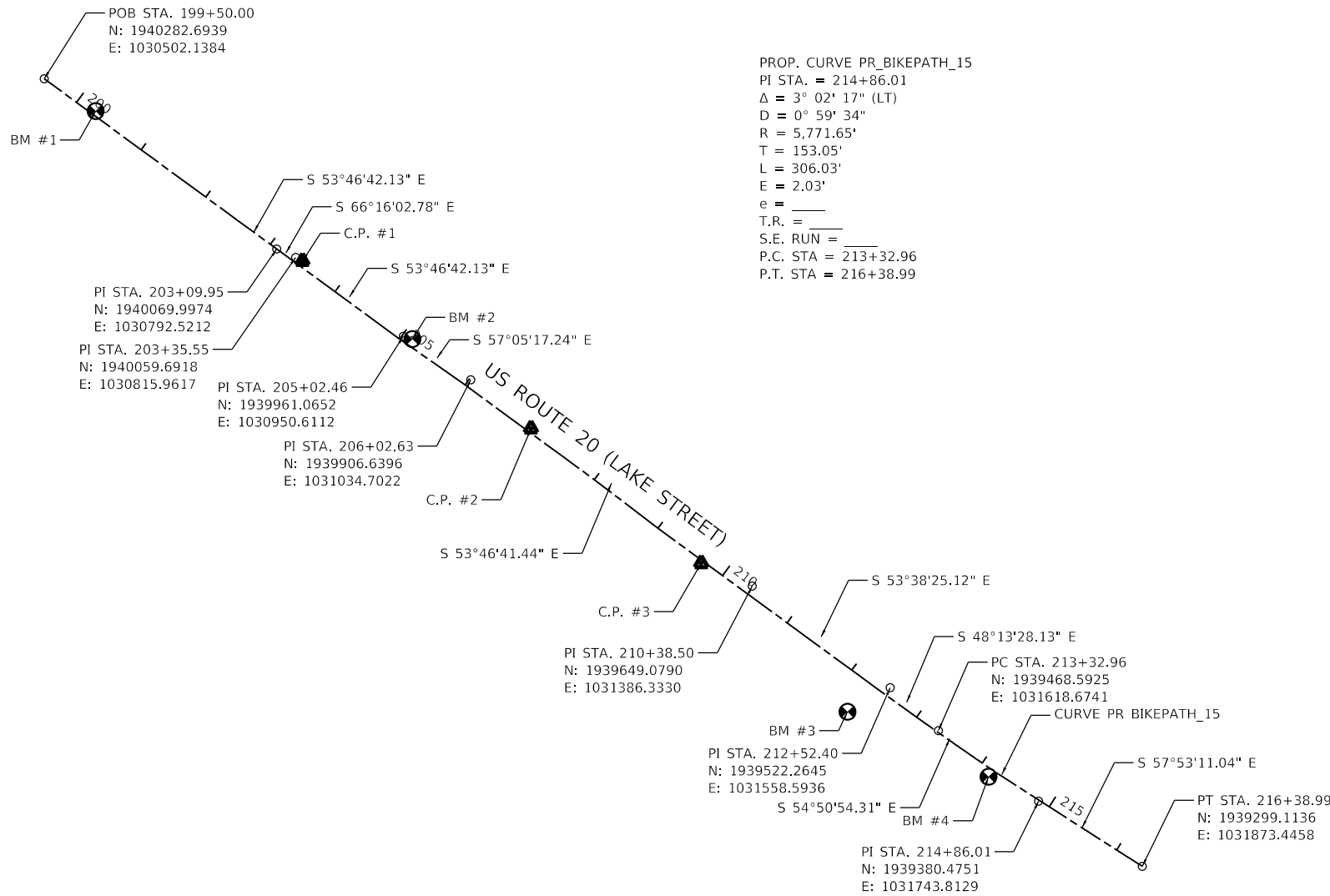
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PLOT DATE = 11/2/2020	DATE - XX/XX/XXXX	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)**  
**TYPICAL SECTIONS**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	6
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G78	



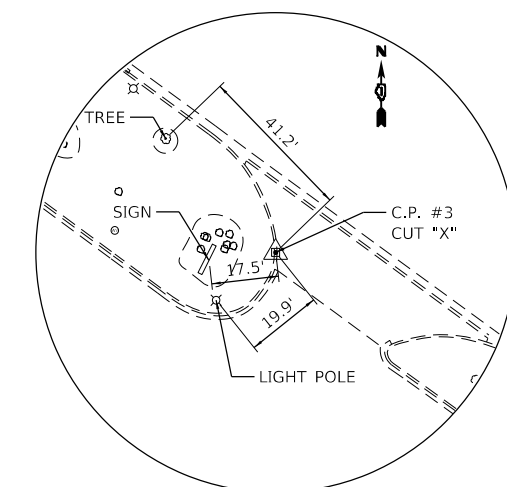
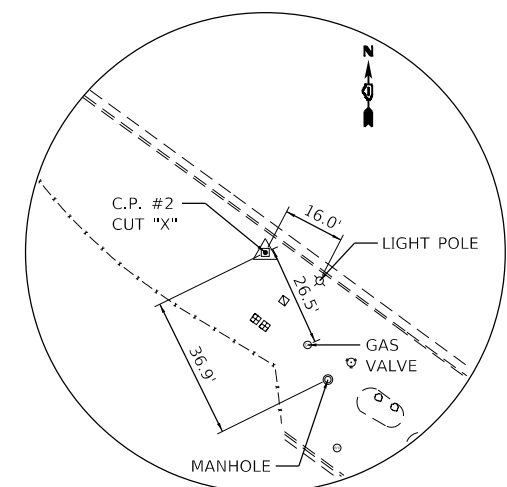
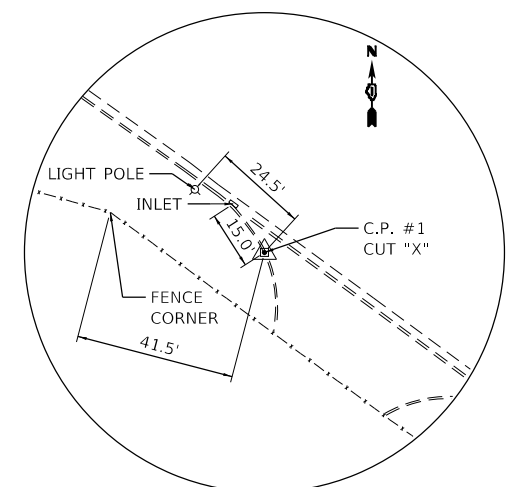
CONTROL POINT #1  
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E: 1030824.5450

CONTROL POINT #2  
N: 1939845.8710  
E: 1031109.9270

CONTROL POINT #3  
N: 1939677.6760  
E: 1031322.5090

**BENCHMARKS**

- BENCHMARK #1: CUT CROSS IN CONCRETE TRAFFIC SIGNAL POLE BASE.  
ELEVATION: 814.00 (NAVD88)
- BENCHMARK #2: CUT CROSS IN CONCRETE LIGHT POLE BASE WITH 40 MPH TRAFFIC SIGN.  
ELEVATION: 819.04 (NAVD88)
- BENCHMARK #3: CROSS IN EAST BOLT ON FIRE HYDRANT.  
ELEVATION: 817.40 (NAVD88)
- BENCHMARK #4: CUT CROSS IN TOP OF CURB NORTHMOST CORNER OF PARKING LOT.  
ELEVATION: 823.80 (NAVD88)



HRG PROJECT NO: 171094  
HRG PROJ CONTACT:  
FILE NAME: 13-00056-SW-A18.dgn  
PEN TABLE: 13-00056.dwg



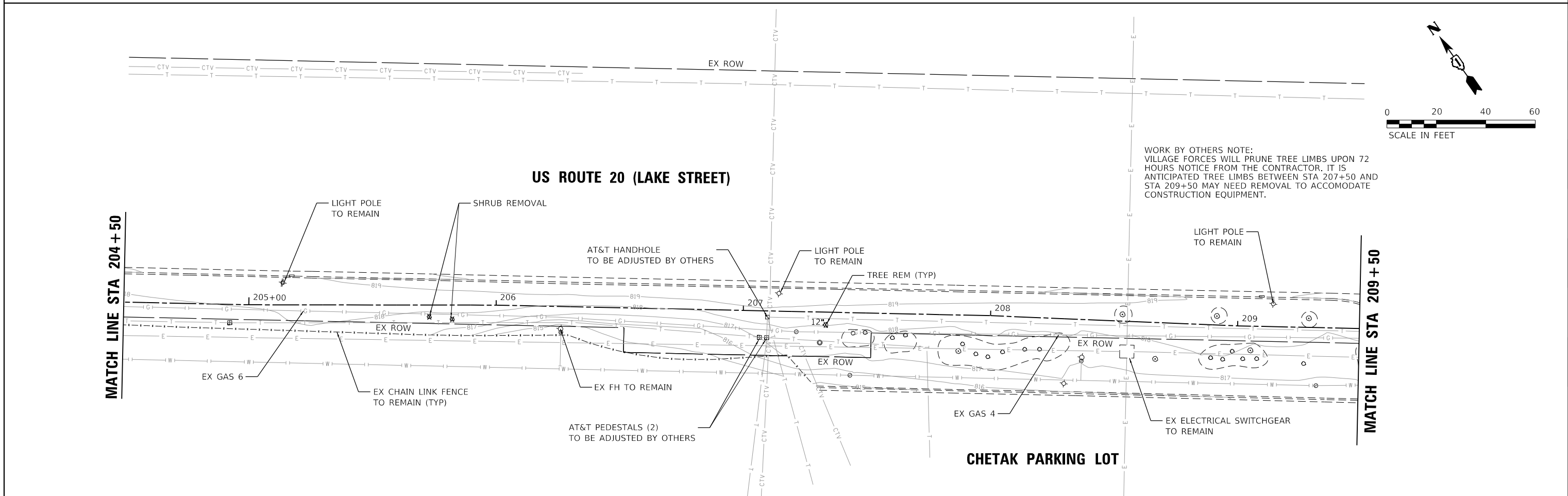
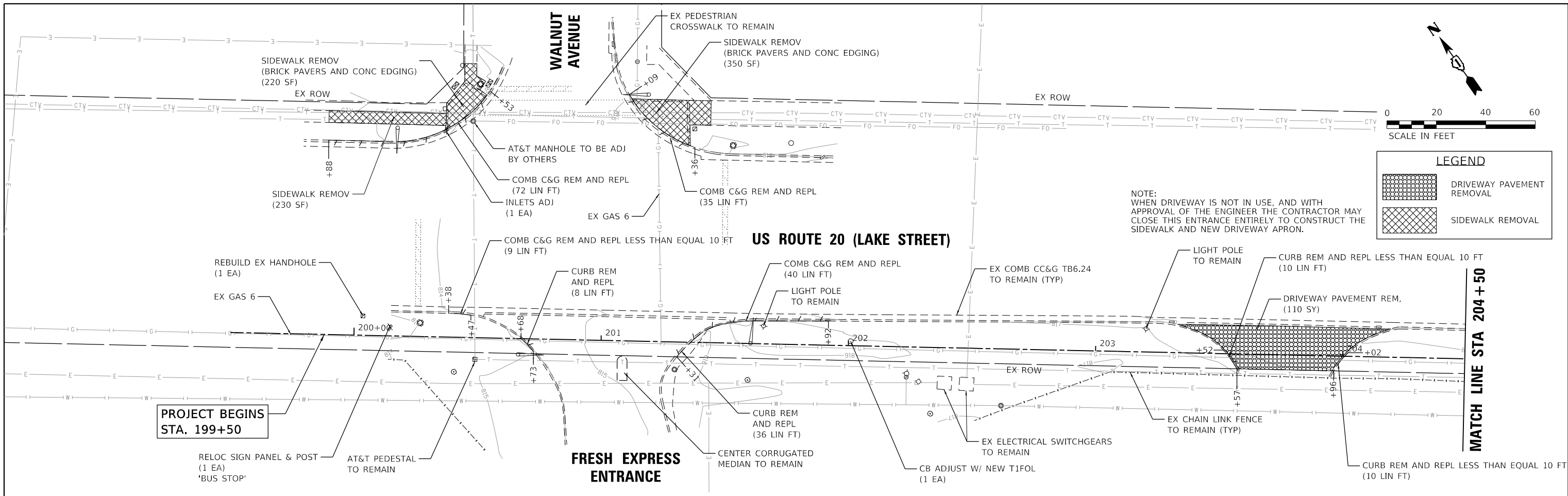
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	DRAWN - XXX	REVISED - XX/XX/XXXX
PLOT SCALE =	CHECKED - XXX	REVISED - XX/XX/XXXX
PLOT DATE = 11/22/2020	DATE - XX/XX/XXXX	REVISED - XX/XX/XXXX

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)  
ALIGNMENT, TIES & BENCHMARKS

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 345	SECTION NO. 13-00056-00-SW	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 7
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G78	



HRG PROJECT NO. 171094  
 HRG PROJ. CONTACT:  
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 PEN TABLE: 171094.tbl



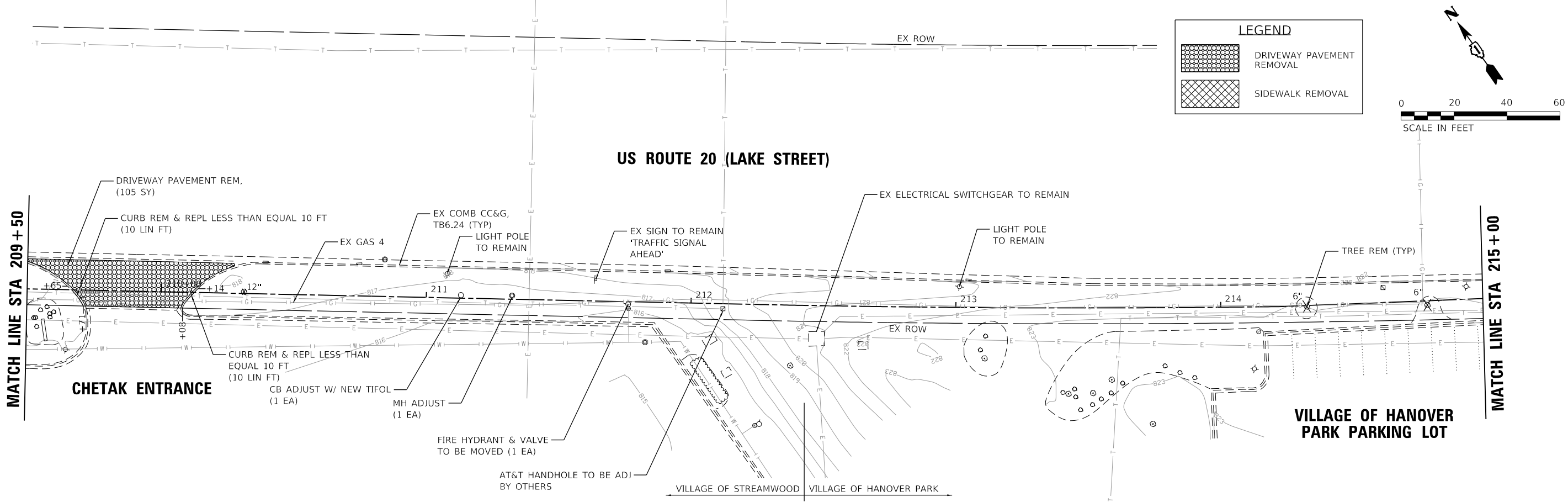
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PLOT SCALE =	DRAWN - XXX	REVISED - XX/XX/XXXX
PLOT DATE = 11/22/2020	CHECKED - XXX	REVISED - XX/XX/XXXX
	DATE - XX/XX/XXXX	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>US ROUTE 20 (LAKE STREET) PEDESTRIAN PATH REMOVAL PLAN</b>	
SCALE: 1"=20'	SHEET 1 OF 2 SHEETS
STA. 199+50.00	TO STA. 206+50.00

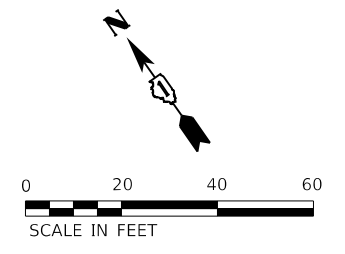
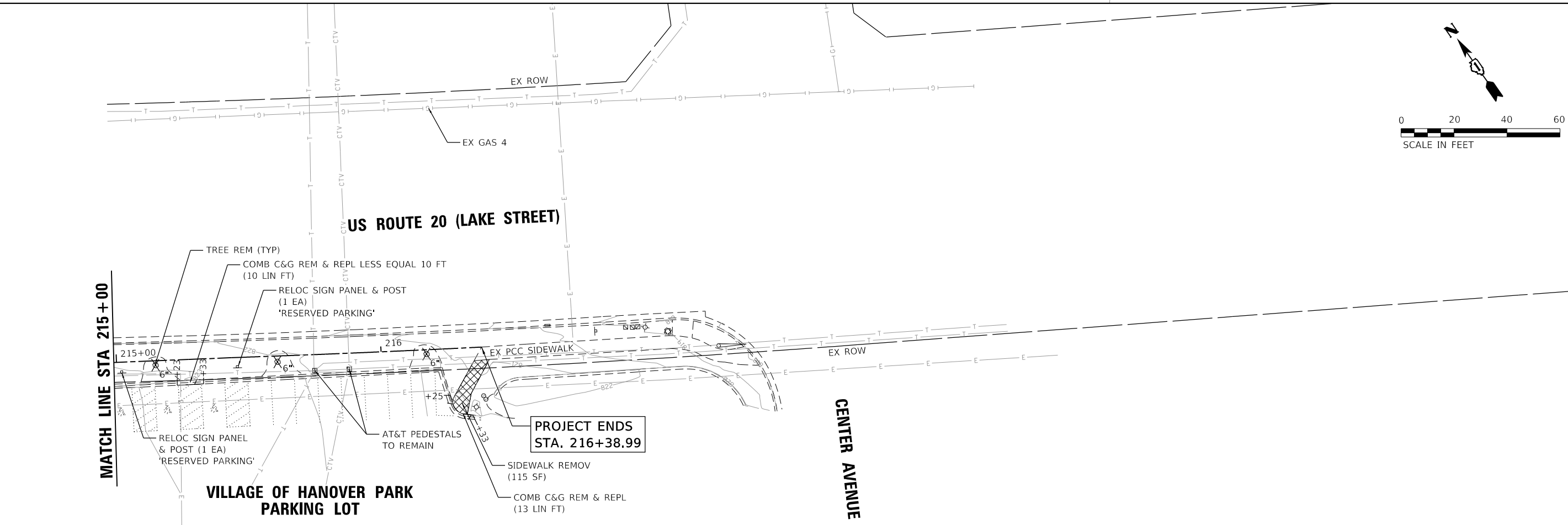
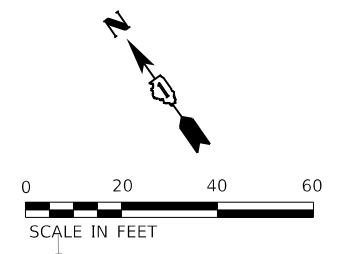
F.A.P. RTE. 345	SECTION NO. 13-00056-00-SW	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 8
CONTRACT NO. 61G78			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	





**LEGEND**

- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL



HRG PROJECT NO.: 171094  
 HRG PROJ. CONTACT:  
 FILE NAME: 13-00056-00-SW-02.dgn  
 PEN TABLE: 13-00056-00.dwg



USER NAME = dstancz	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - XXX	REVISED - XX/XX/XXXX
PLOT SCALE =	CHECKED - XXX	REVISED - XX/XX/XXXX
PLOT DATE = 11/22/2020	DATE - XX/XX/XXXX	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

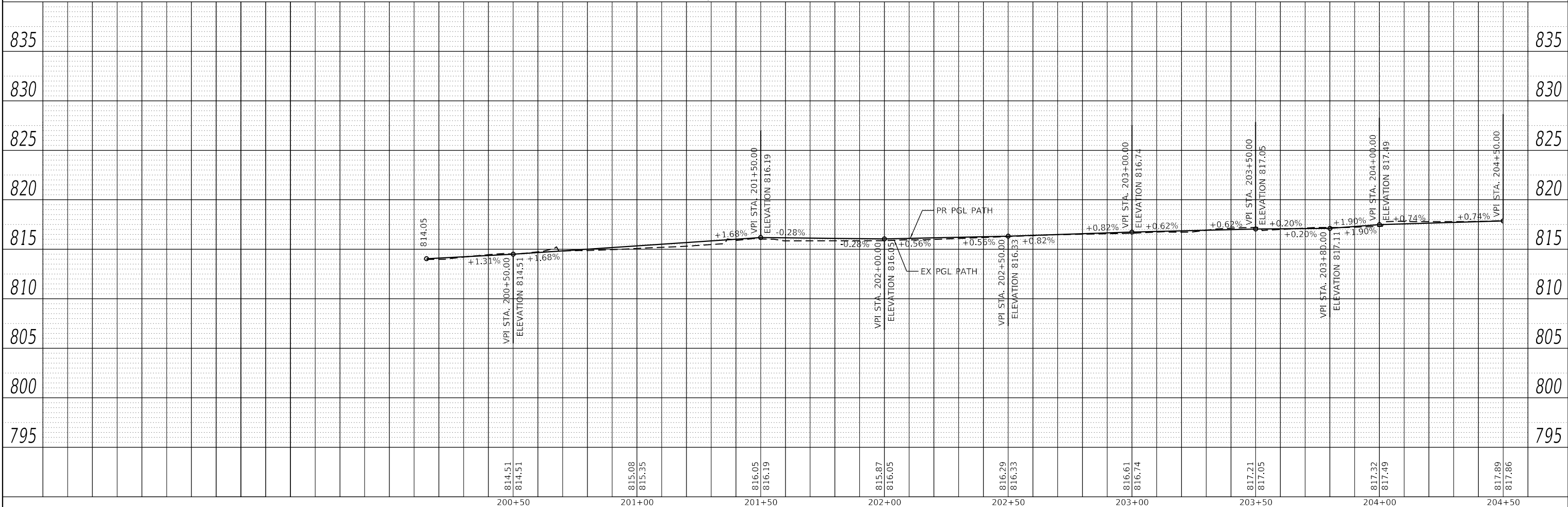
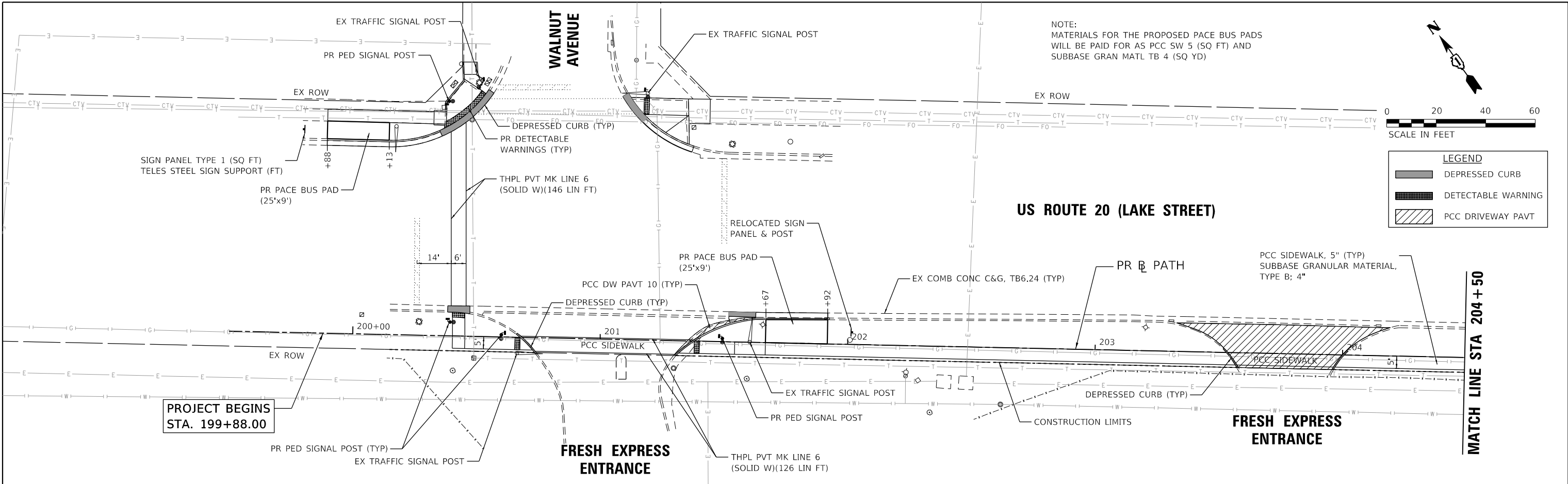
<b>US ROUTE 20 (LAKE STREET) PEDESTRIAN PATH REMOVAL PLAN</b>	
SCALE: 1"=20'	SHEET 2 OF 2 SHEETS
STA. 206+50.00 TO STA. 216+38.63	

F.A.P. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	9
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61G78	

DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
ASPHALT PAVED	
NO. _____	
NO. _____	
NO. _____	

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NO. _____	
NO. _____	
NO. _____	

HRG PROJECT NO. 171094  
 HRG PROJ. CONTACT:  
 FILE NAME: 171094-371-p1pr-f-01.dgn  
 PEN TABLE: p1prTable.tbl

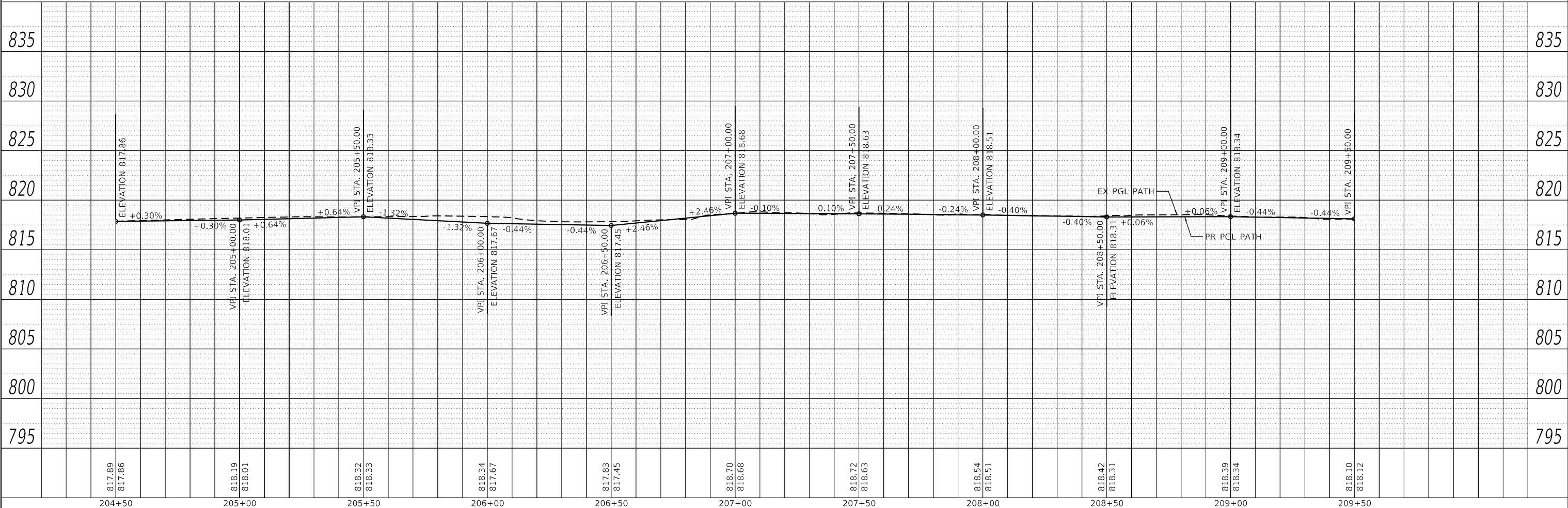
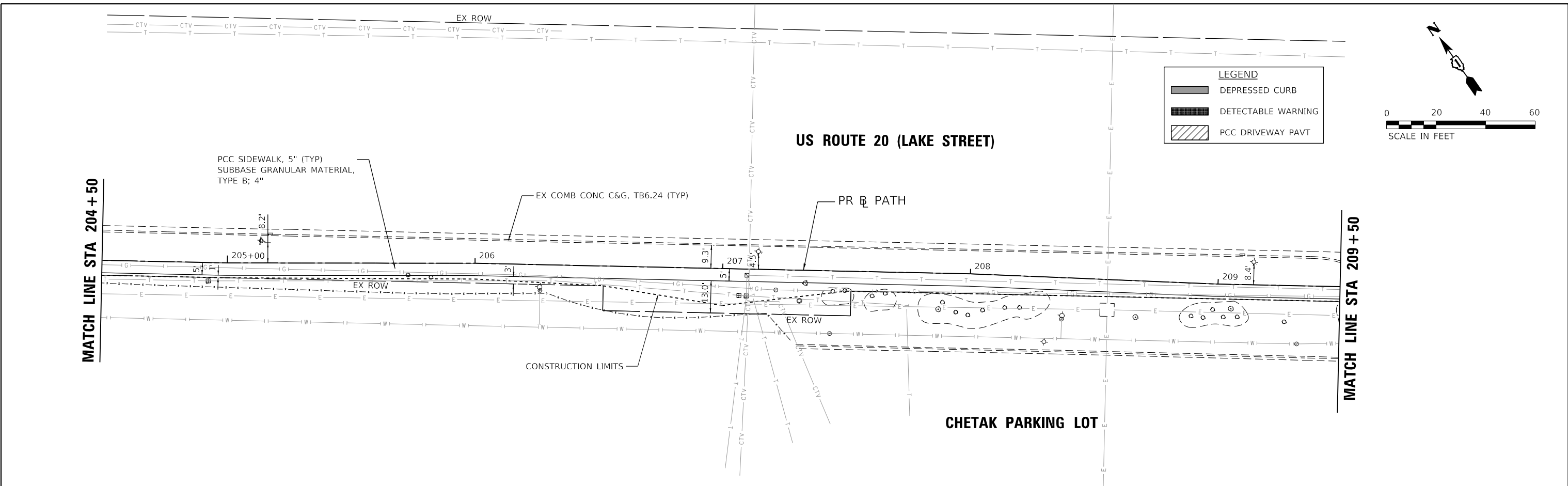


	USER NAME = dstencz DESIGNED - JJS DRAWN - XXX CHECKED - XXX DATE - XX/XX/XXXX PLOT DATE = 11/22/2020	REVISED - XX/XX/XXXX REVISED - XX/XX/XXXX REVISED - XX/XX/XXXX REVISED - XX/XX/XXXX	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 20 (LAKE STREET)</b> <b>PEDESTRIAN PATH PLAN AND PROFILE</b>	F.A.P. RTE. 345 SECTION NO. 13-00056-00-SW COUNTY COOK ILLINOIS FED. AID PROJECT	TOTAL SHEETS 39 SHEET NO. 10 CONTRACT NO. 61G78
	SCALE: 1"=20' SHEET 1 OF 4 SHEETS STA. 199+50.00 TO STA. 204+50.00					

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO. _____	
	NO. _____	
	NO. _____	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO. _____	
	NO. _____	
	NO. _____	

HRG PROJECT NO.: 171094  
 HRG PROJ. CONTACT:  
 FILE NAME: 02094-377-pmp-rf-02.dgn  
 PEN TABLE: pmp-table.tbl



817.89 817.86	818.19 818.01	818.32 818.33	818.34 817.67	817.83 817.45	818.70 818.68	818.72 818.63	818.54 818.51	818.42 818.31	818.39 818.34	818.10 818.12
204+50	205+00	205+50	206+00	206+50	207+00	207+50	208+00	208+50	209+00	209+50

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 Illinois Professional Design Firm  
 #184-001322

USER NAME = dstancz	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - XXX	REVISED - XX/XX/XXXX
PLOT SCALE =	CHECKED - XXX	REVISED - XX/XX/XXXX
PLOT DATE = 11/22/2020	DATE - XX/XX/XXXX	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

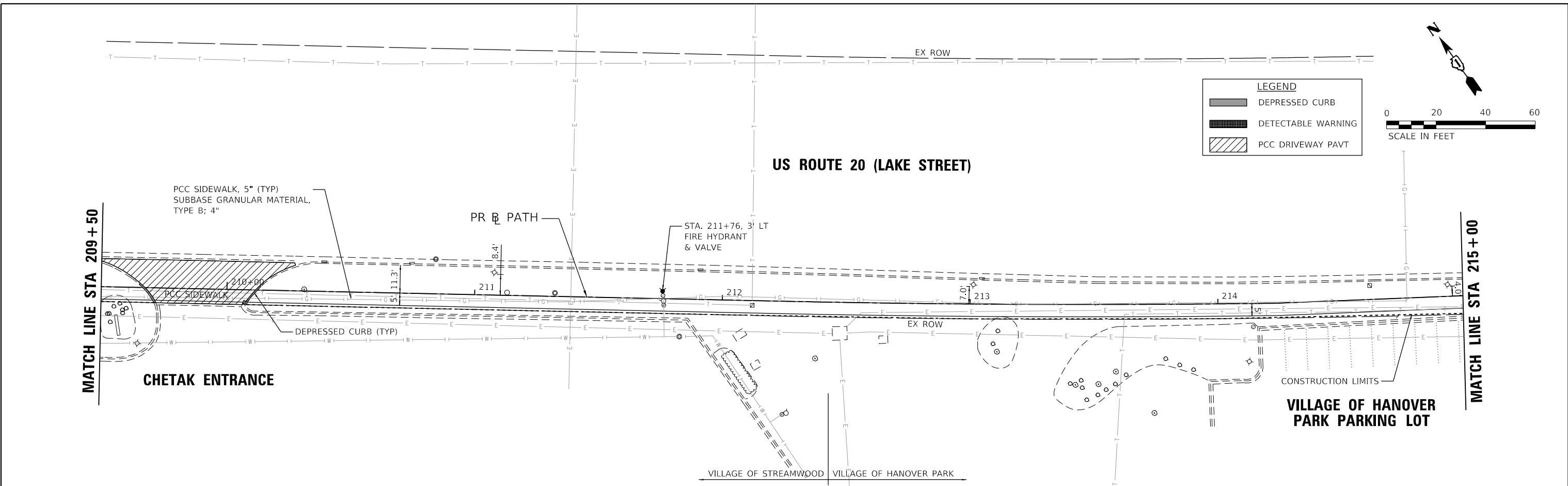
<b>US ROUTE 20 (LAKE STREET) PEDESTRIAN PATH PLAN AND PROFILE</b>	
SCALE: 1"=20'	SHEET 2 OF 4 SHEETS
STA. 204+50.00	TO STA. 209+50.00

F.A.P. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	11
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61G78	

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO. _____	
	FILE NAME	
	TABLE	

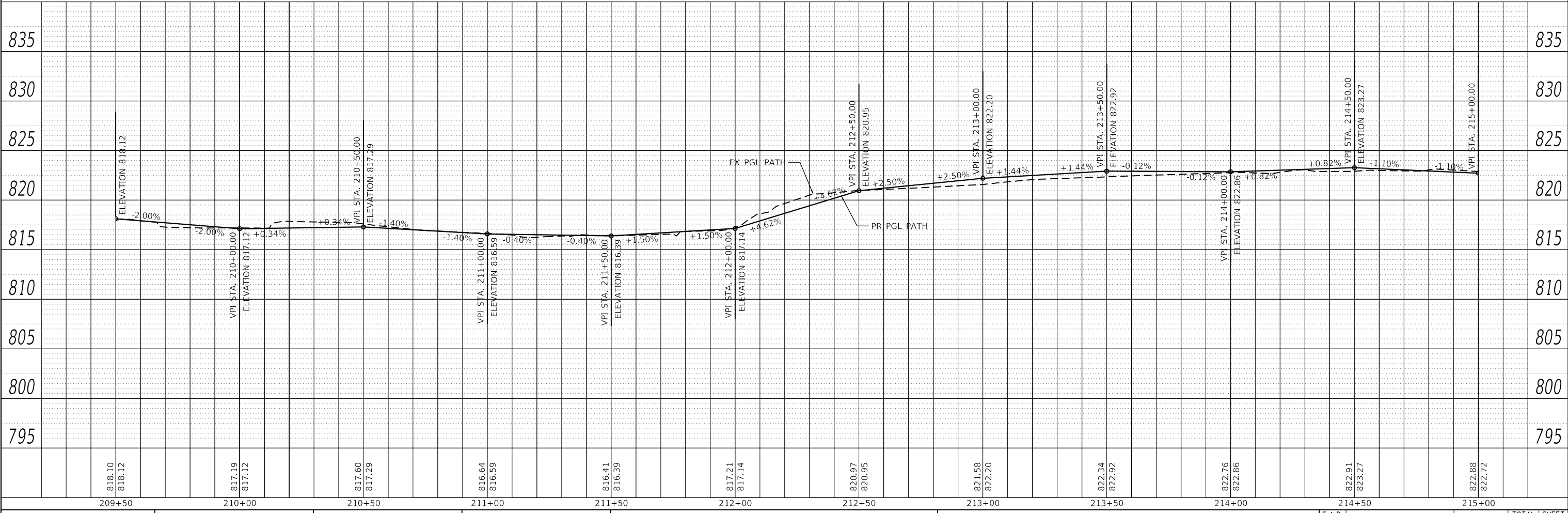
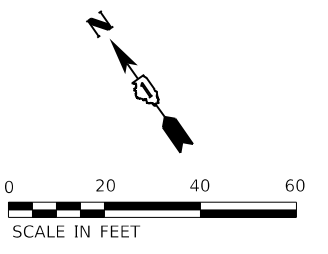
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	BY	
	NO. _____	
	FILE NAME	
	TABLE	

HRG PROJECT NO.: 171094  
 HRG PROJ. CONTACT:  
 FILE NAME: 02094-571-p1pr-f-03.dgn  
 PEN TABLE: p1prtbl.tbl



**LEGEND**

- DEPRESSED CURB
- DETECTABLE WARNING
- PCC DRIVEWAY PAVT



818.10 818.12	817.19 817.12	817.60 817.29	816.64 816.59	816.41 816.39	817.21 817.14	820.97 820.95	821.58 822.20	822.34 822.92	822.76 822.86	822.91 823.27	822.68 822.72
209+50	210+00	210+50	211+00	211+50	212+00	212+50	213+00	213+50	214+00	214+50	215+00

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 #184-001322

USER NAME = dstancz	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - XXX	REVISED - XX/XX/XXXX
PLOT SCALE =	CHECKED - XXX	REVISED - XX/XX/XXXX
PLOT DATE = 11/22/2020	DATE - XX/XX/XXXX	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)**  
**PEDESTRIAN PATH PLAN AND PROFILE**

SCALE: 1"=20'

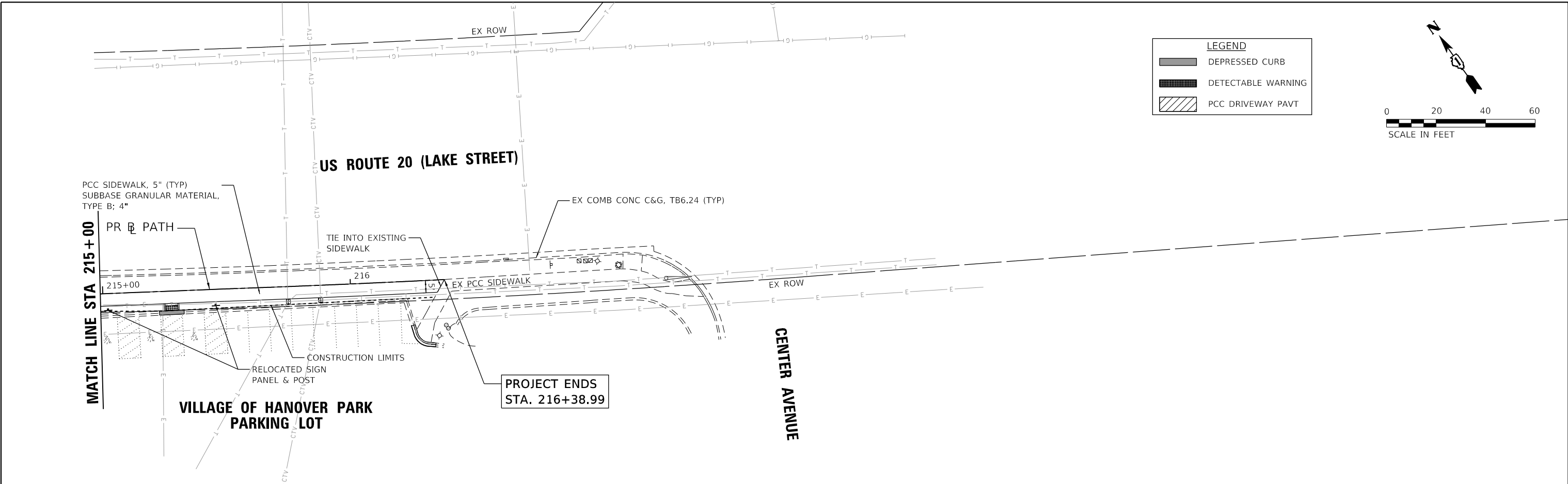
SHEET 3 OF 4 SHEETS    STA. 209+50.00 TO STA. 215+00.00

F.A.P. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	12
CONTRACT NO. 61G78				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

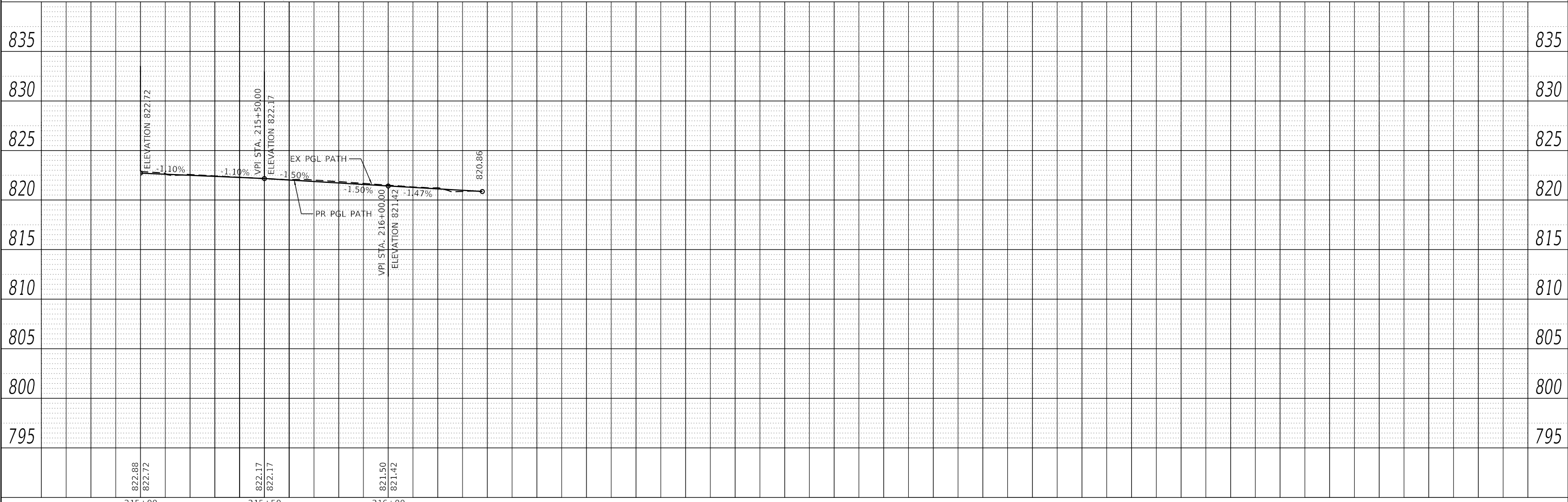
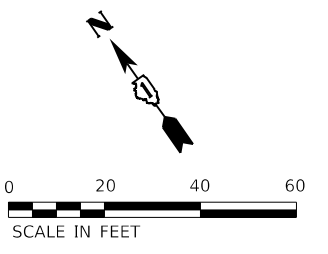
PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	FILE NAME		
	FILE NO.		
	FILE DATE		
	FILE TIME		
	FILE USER		
	FILE PATH		
	FILE SIZE		
	FILE TYPE		
	FILE EXTENSION		
	FILE FULL NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS OK'D		
	NOTE BOOK		
	NO.		
	FILE NAME		
	FILE NO.		
	FILE DATE		
	FILE TIME		
	FILE USER		
	FILE PATH		
	FILE SIZE		
	FILE TYPE		
	FILE EXTENSION		
	FILE FULL NAME		

HRG PROJECT NO. 171094  
 HRG PROJ. CONTACT:  
 FILE NAME: 171094-001-001-001-001.dgn  
 FILE NO.: 171094-001-001-001-001  
 FILE DATE: 11/22/2020  
 FILE TIME: 11:22:00  
 FILE USER: jstancz



LEGEND	
	DEPRESSED CURB
	DETECTABLE WARNING
	PCC DRIVEWAY PAVT



822.88 822.72	822.17 822.17	821.50 821.42	820.96
215+00	215+50	216+00	
USER NAME = dstancz	DESIGNED - JJS	REVISED - XX/XX/XXXX	
	DRAWN - XXX	REVISED - XX/XX/XXXX	
PLOT SCALE =	CHECKED - XXX	REVISED - XX/XX/XXXX	
PLOT DATE = 11/22/2020	DATE - XX/XX/XXXX	REVISED - XX/XX/XXXX	

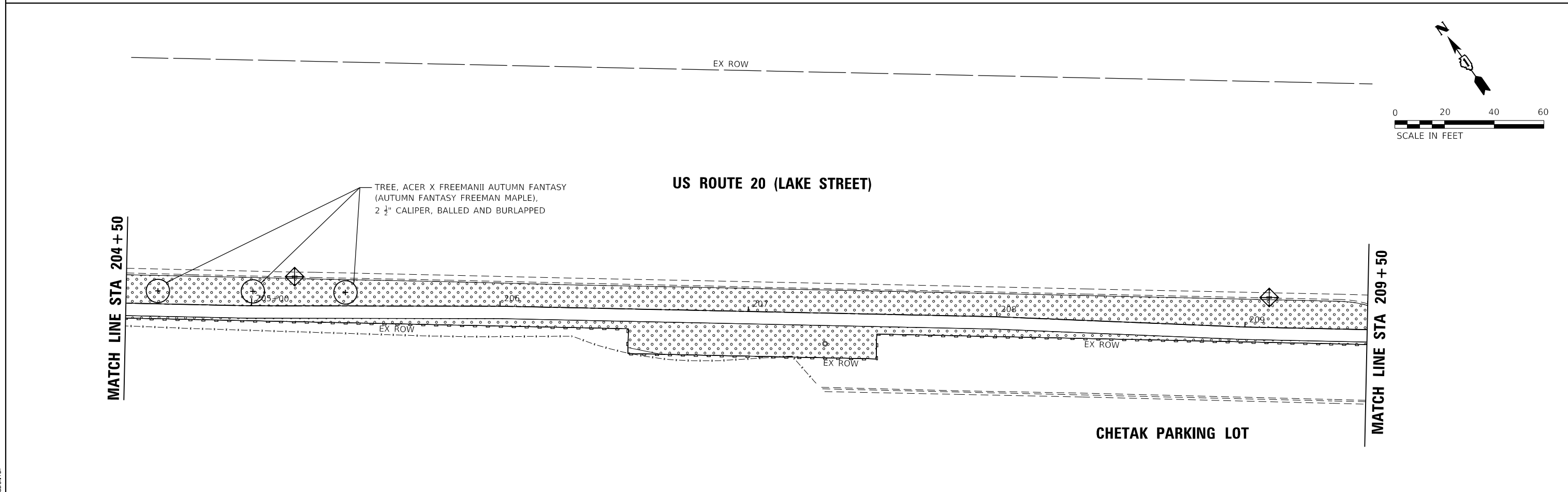
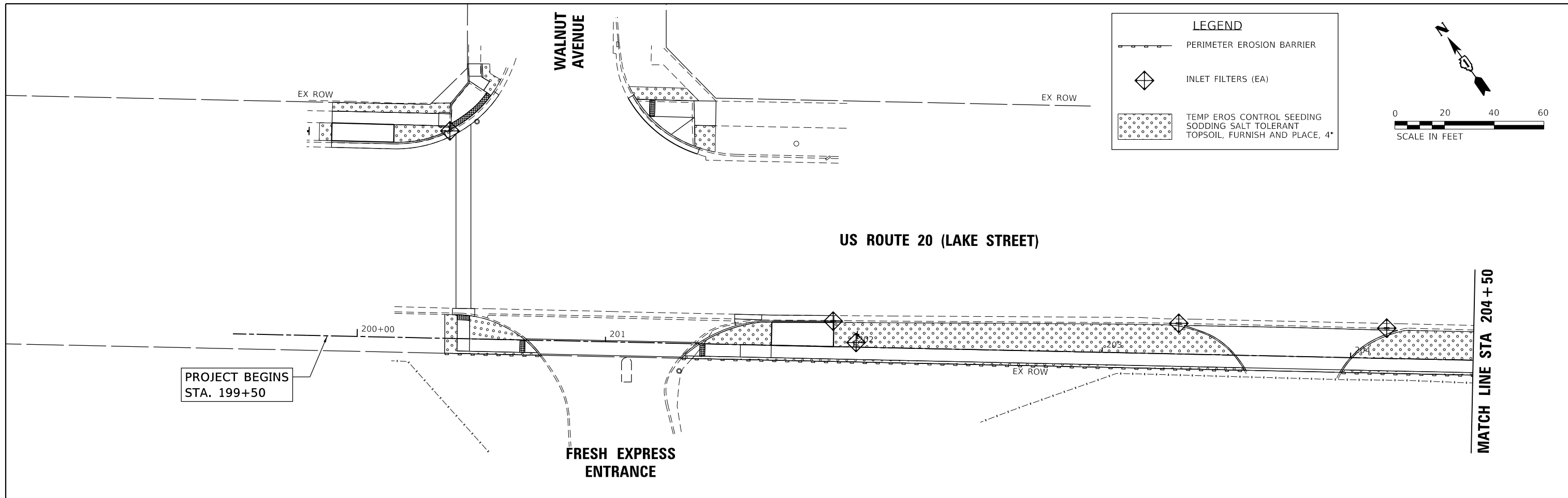


**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)  
 PEDESTRIAN PATH PLAN AND PROFILE**

SCALE: 1"=20' SHEET 4 OF 4 SHEETS STA. 215+00.00 TO STA. 216+38.63

F.A.P. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	13
CONTRACT NO. 61G78				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



HRG PROJECT NO: 171094  
 HRG PROJ CONTACT:  
 FILE NAME: 171094-577-eros-01.dgn  
 PEN TABLE: 171094.tbl



USER NAME = dstencz	DESIGNED - JJS	REVISED - XX/XX/XXXX
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PLOT DATE = 11/2/2020	DATE - XX/XX/XXXX	REVISED - XX/XX/XXXX

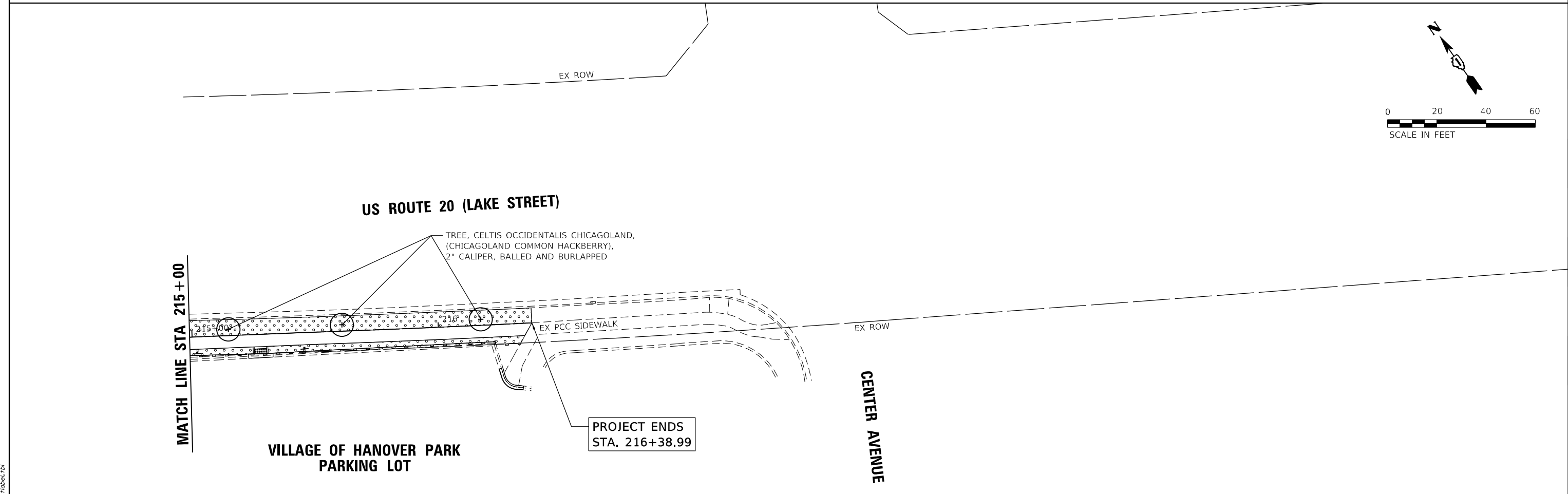
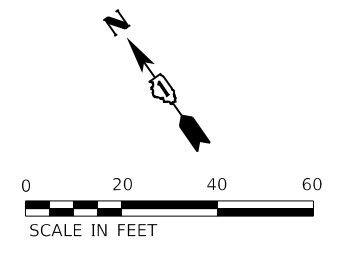
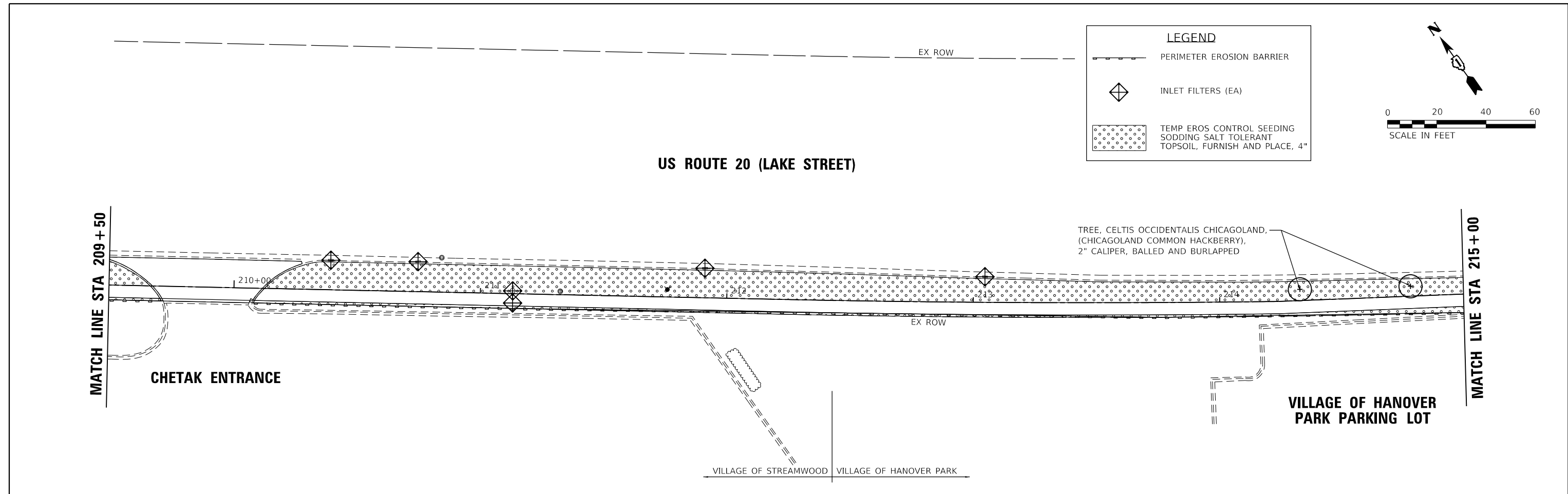
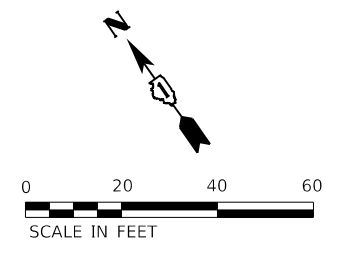
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>US ROUTE 20 (LAKE STREET)</b> <b>PEDESTRIAN PATH EROSION PLAN</b>	
SCALE: 1"=20'	SHEET 1 OF 2 SHEETS
STA. 199+50.00 TO STA. 206+50.00	

F.A.P. RTE. 345	SECTION NO. 13-00056-00-SW	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 14
<b>CONTRACT NO. 61G78</b>				
<small>FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT</small>				

**LEGEND**

- PERIMETER EROSION BARRIER
- INLET FILTERS (EA)
- TEMP EROS CONTROL SEEDING  
SODDING SALT TOLERANT  
TOPSOIL, FURNISH AND PLACE, 4"



HRG PROJECT NO: 171094  
 HRG PROJ CONTACT:  
 FILE NAME: 171094-217-eros-02.dgn  
 PEN TABLE: 171094.tbl

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USER NAME = dstencz	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - XXX	REVISED - XX/XX/XXXX
PLOT SCALE =	CHECKED - XXX	REVISED - XX/XX/XXXX
PLOT DATE = 11/2/2020	DATE - XX/XX/XXXX	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)  
 PEDESTRIAN PATH EROSION PLAN**

SCALE: 1"=20'    SHEET 2 OF 2 SHEETS    STA. 206+50.00 TO STA. 216+38.63

F.A.P. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	15
CONTRACT NO. 61G78				
FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT				

# TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

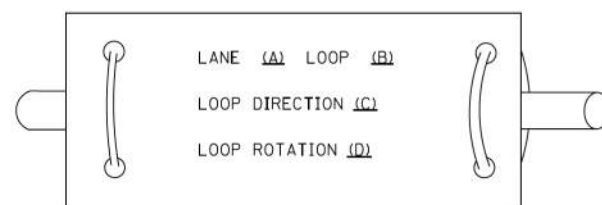
ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								



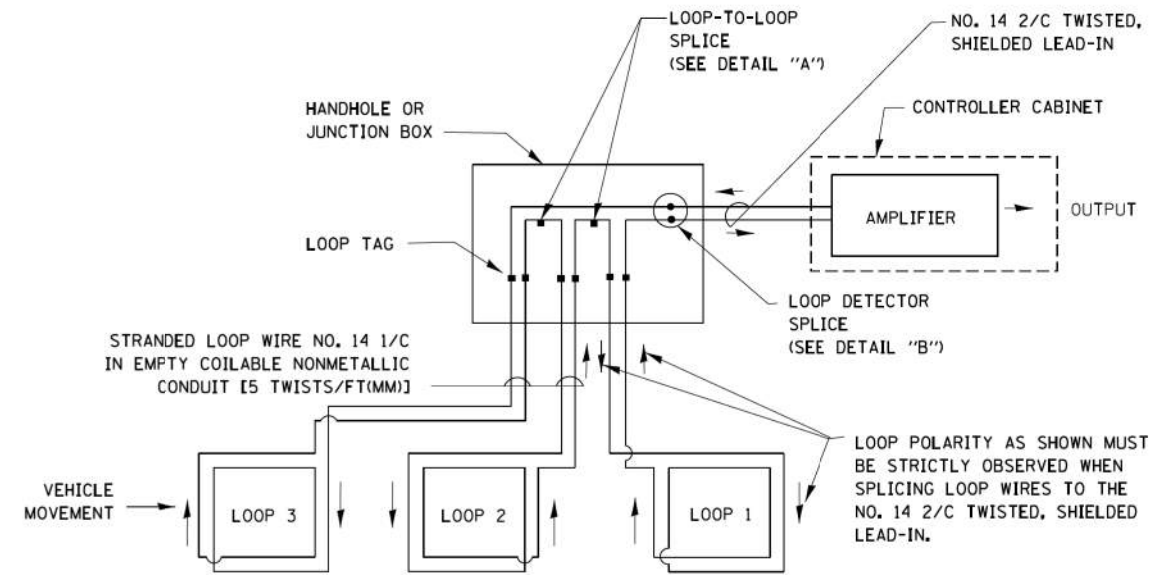
**LOOP DETECTOR NOTES**

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**

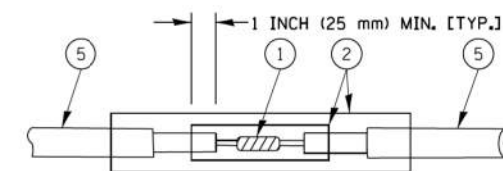


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

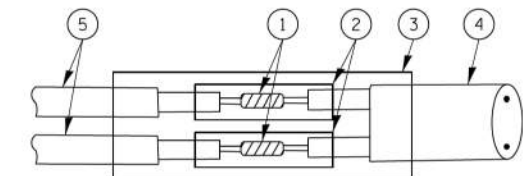


**DETECTOR LOOP WIRING SCHEMATIC**

- 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.

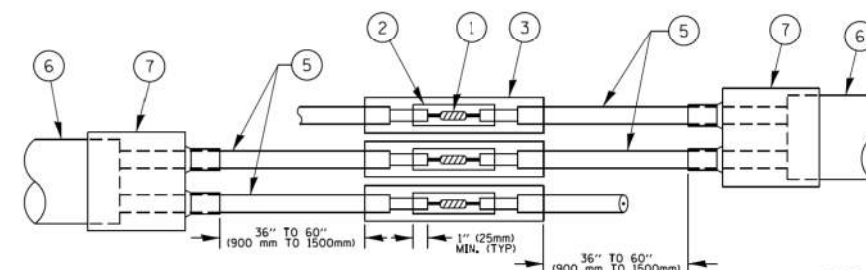


DETAIL "A"  
LOOP-TO-LOOP SPLICE

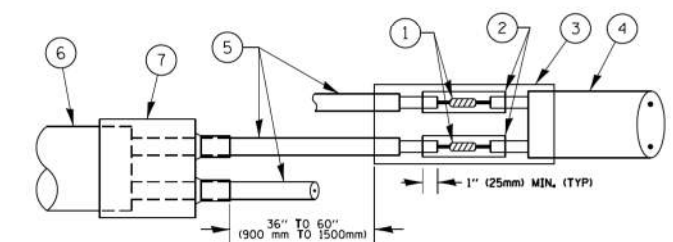


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

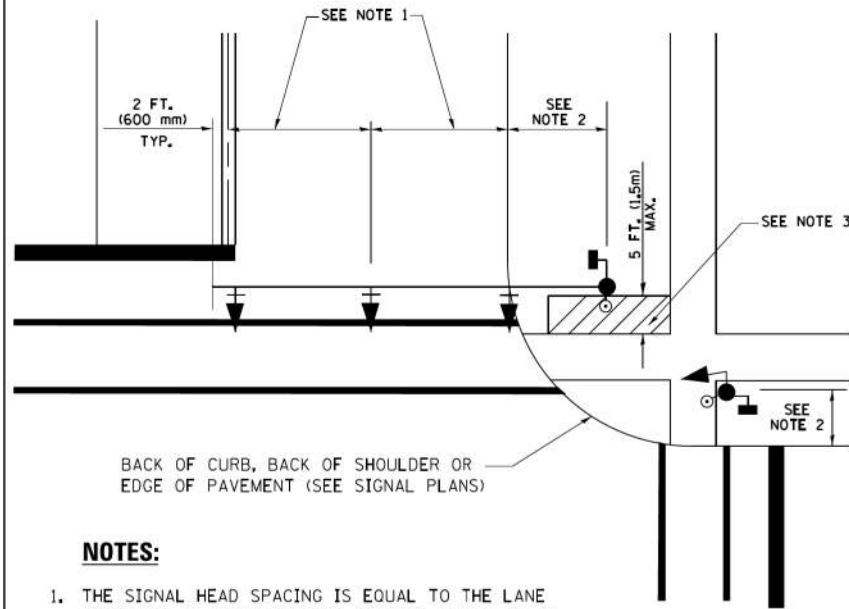
**PREFORMED LOOP**

**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 LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			F.A. RTE. = 345	SECTION = 13-00056-00-SW	COUNTY = COOK	TOTAL SHEETS = 39	SHEET NO. = 17
ca:\pe_work\p\dot\Footemj\d0108315\ts05.dgn	PLOT SCALE = 50.0000' / in.	DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.	<b>TS-05</b>		CONTRACT NO. = 61G78		
	PLOT DATE = 1/13/2014	CHECKED - DAD	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 10-28-09	REVISED -									

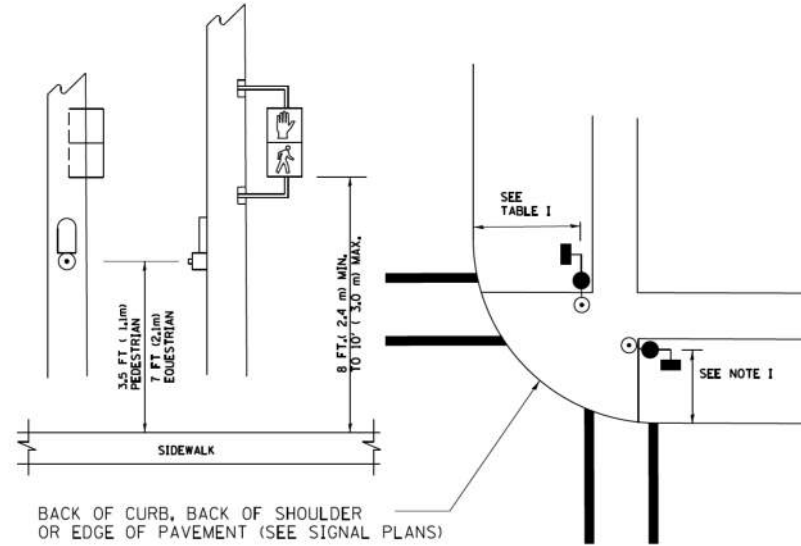
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. 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.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. 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."

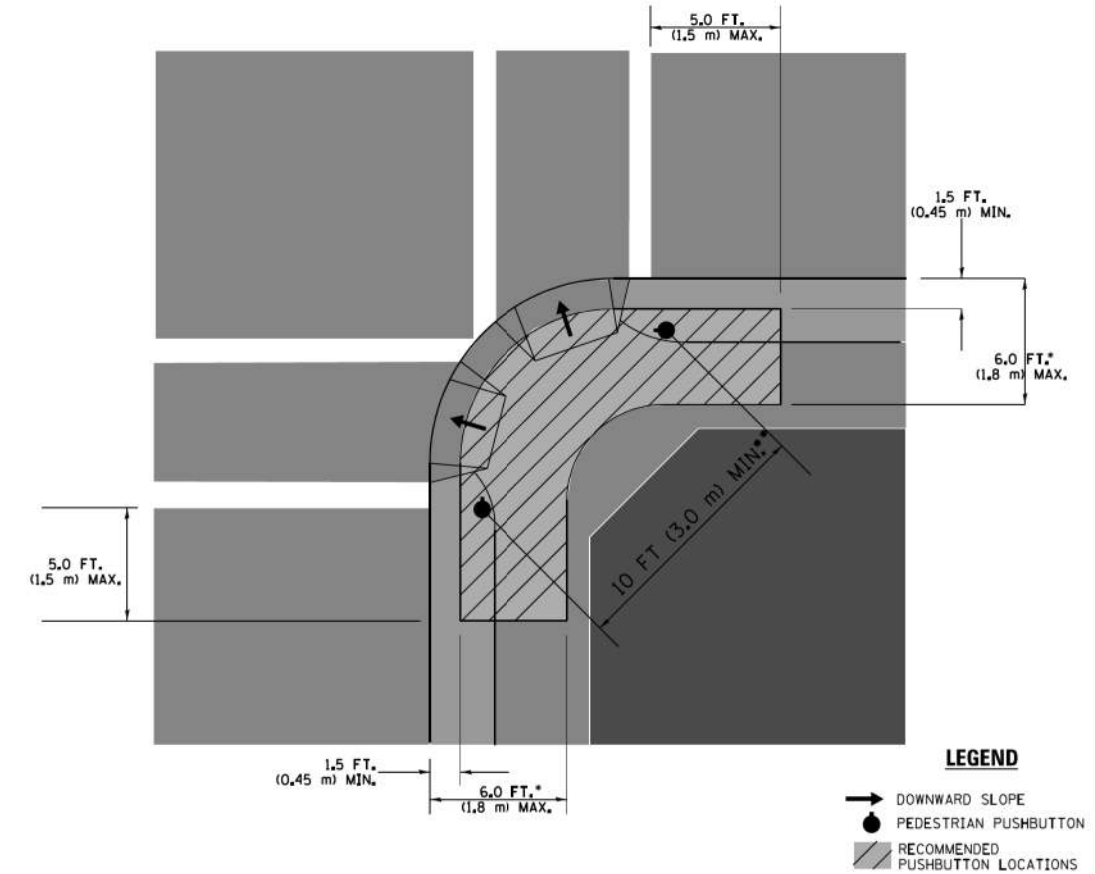
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. 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.
3. 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."

**RECOMMENDED PUSHBUTTON LOCATIONS**



**LEGEND**

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- 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:**

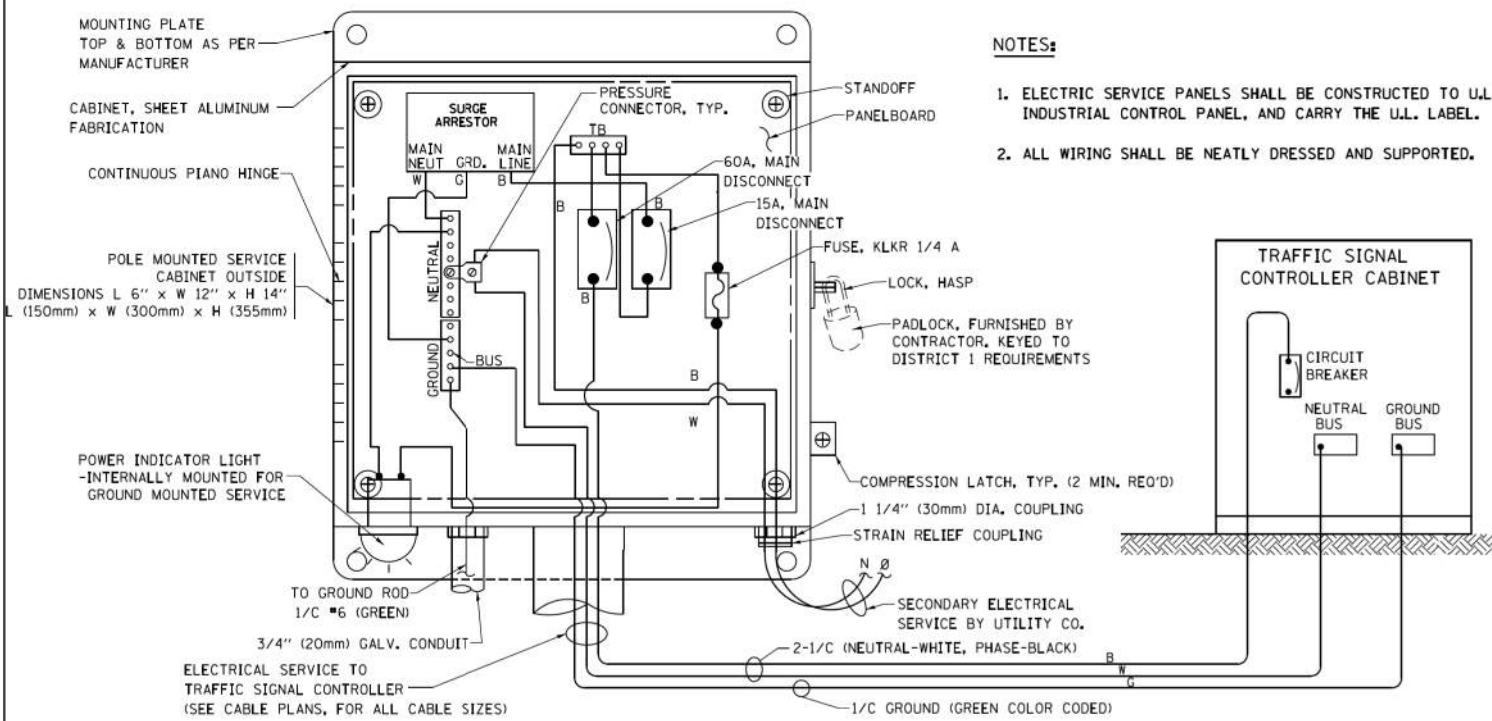
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM 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.
5. 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**

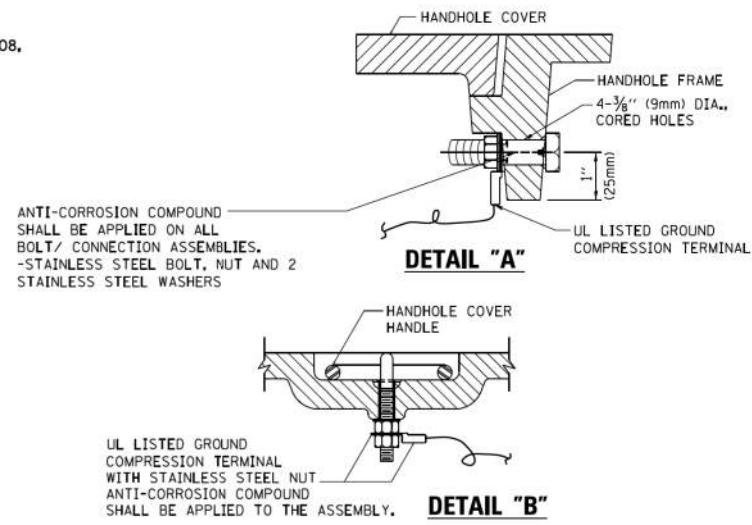
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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 TO THE 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.

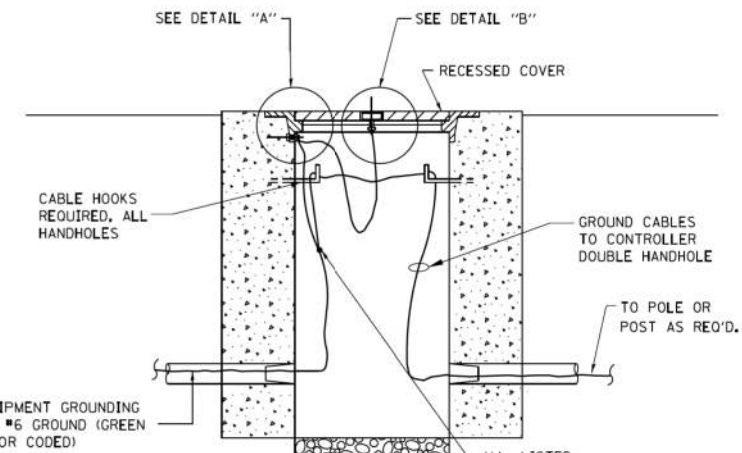


**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)**

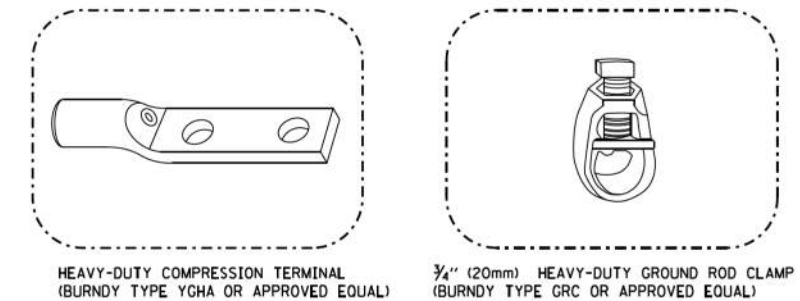


**NOTES:**  
**GROUNDING SYSTEM**

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

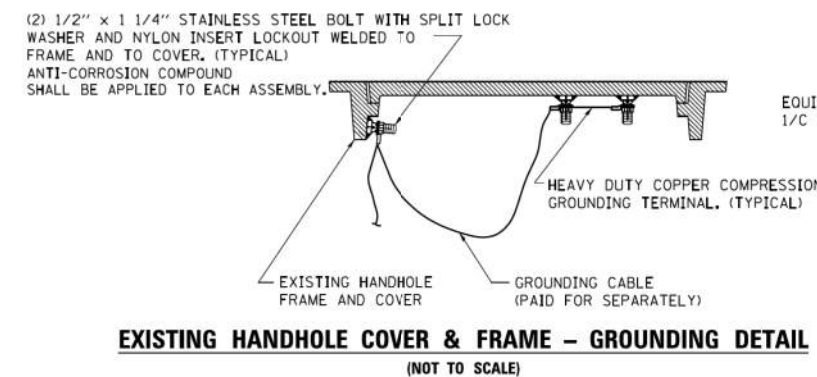


**HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)**

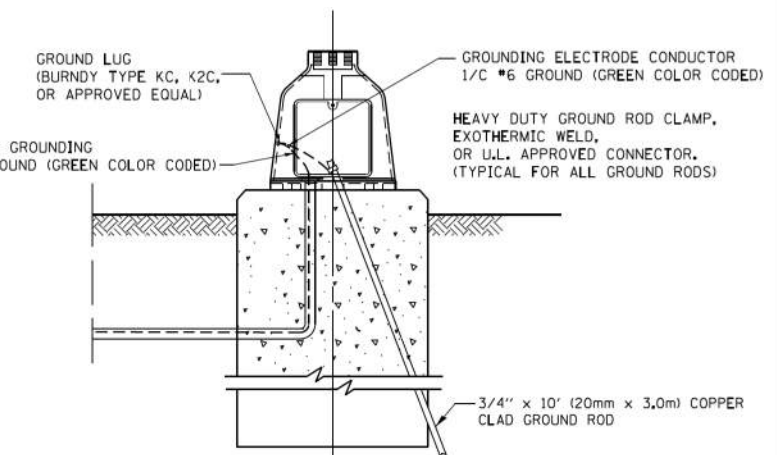


**NOTES:**

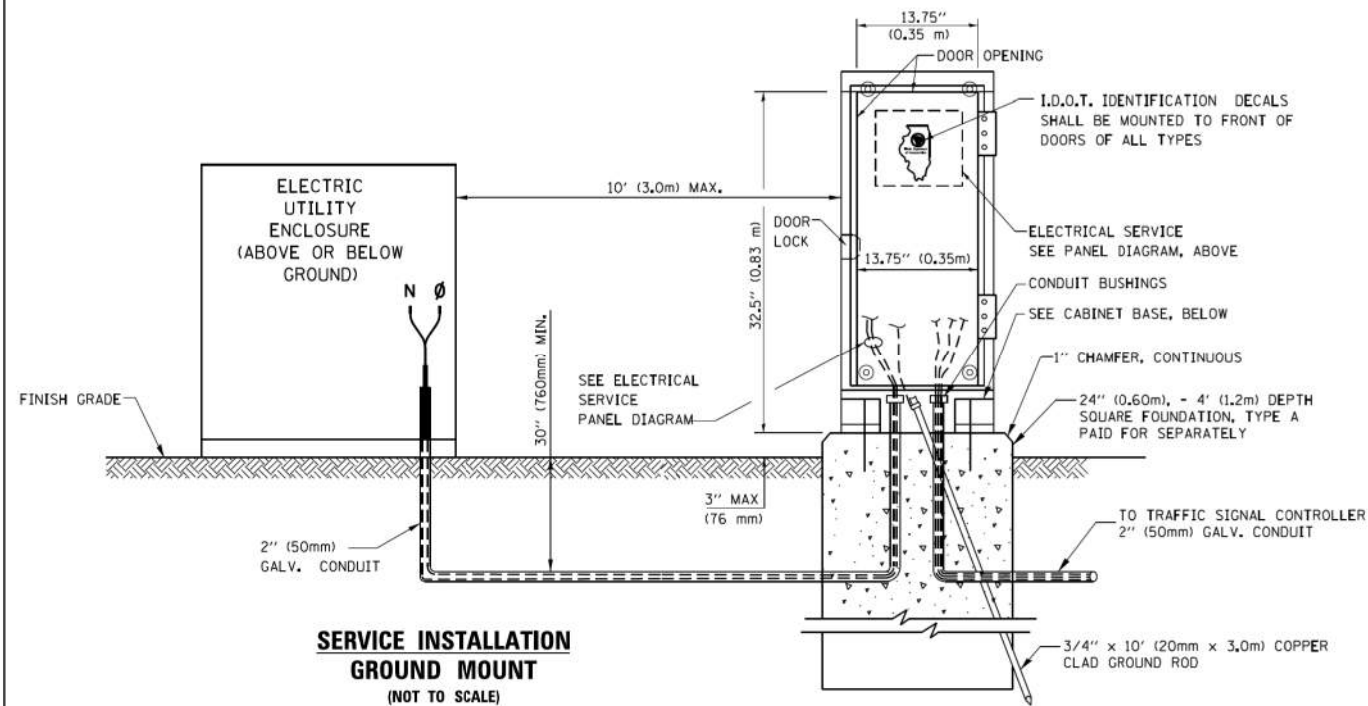
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



**EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)**

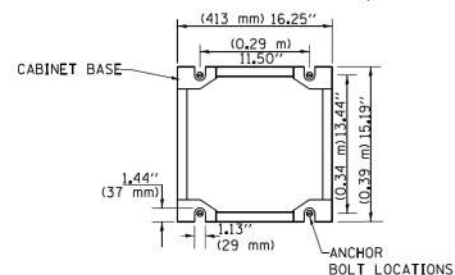


**MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)**



**SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)**

**CABINET - BASE BOLT PATTERN (NOT TO SCALE)**

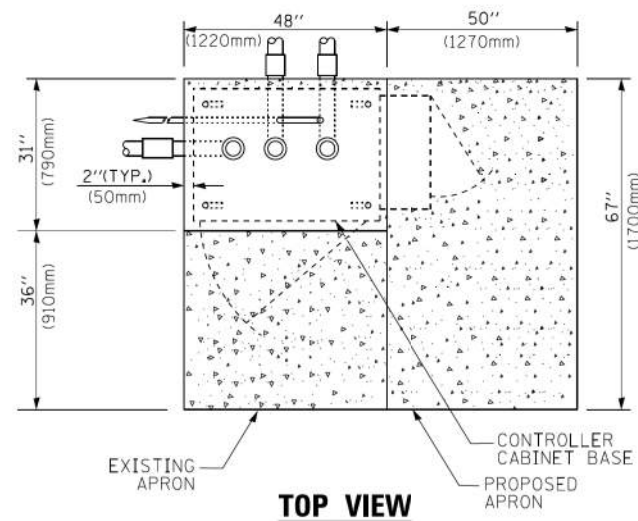


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ca:\pe_work\pvd\dot\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

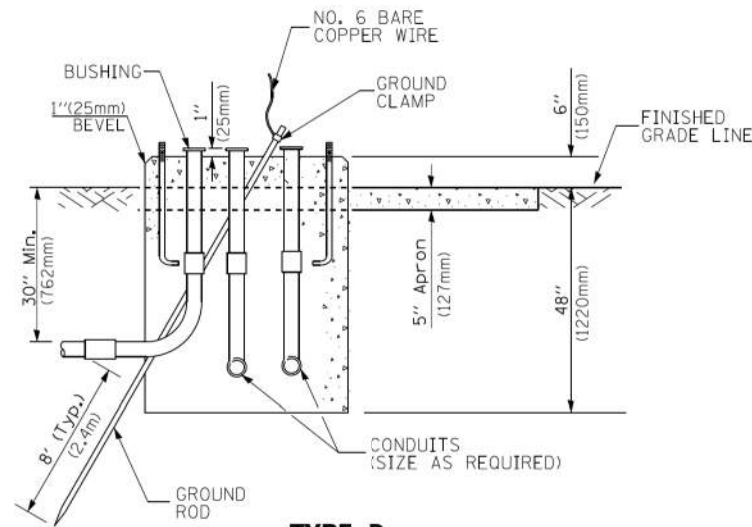
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE</b>			
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA.	TO STA.

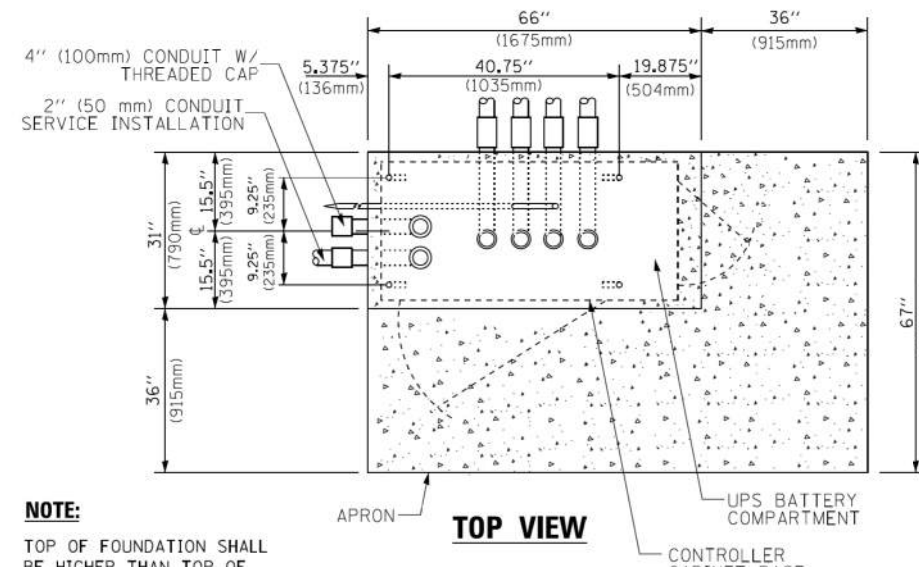
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	19
<b>TS-05</b>		CONTRACT NO. 61G78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**TOP VIEW**

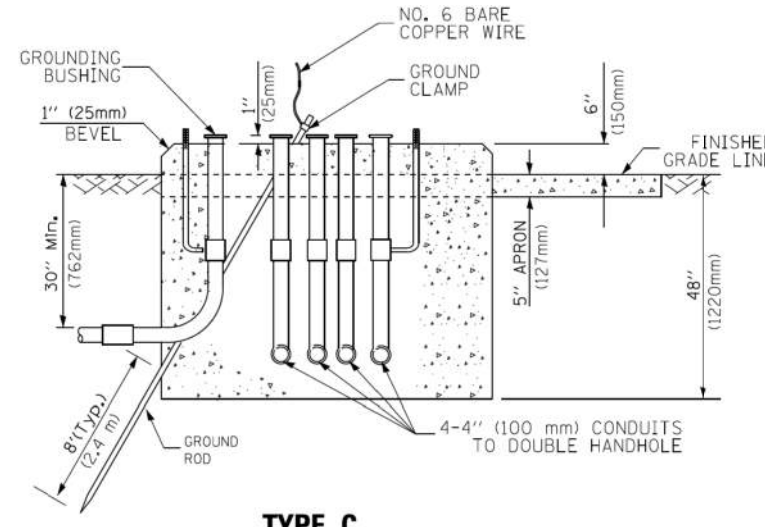


**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**

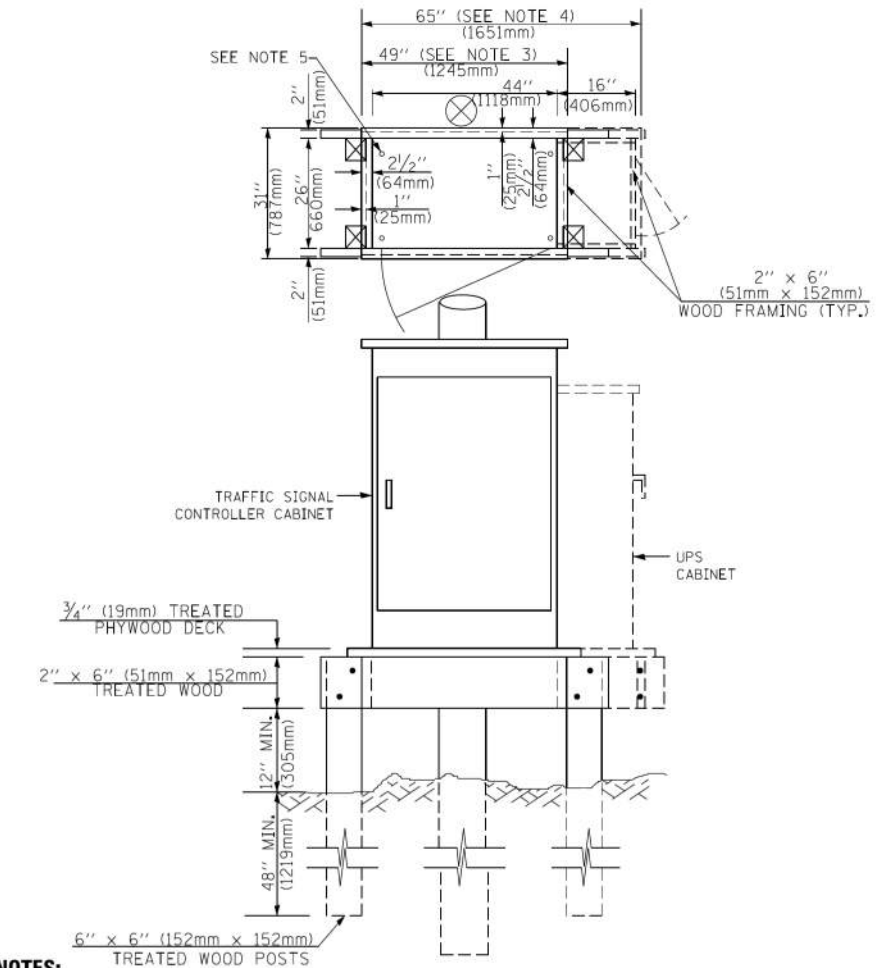


**TOP VIEW**

**NOTE:**  
TOP OF FOUNDATION SHALL  
BE HIGHER THAN TOP OF  
DOUBLE HANDHOLE



**TYPE C  
FOR GROUND MOUNTED  
SUPER P (TYPE IV) AND SUPER R (TYPE V)  
CONTROLLER CABINETS**



**NOTES:**

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

**CABLE SLACK**

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**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

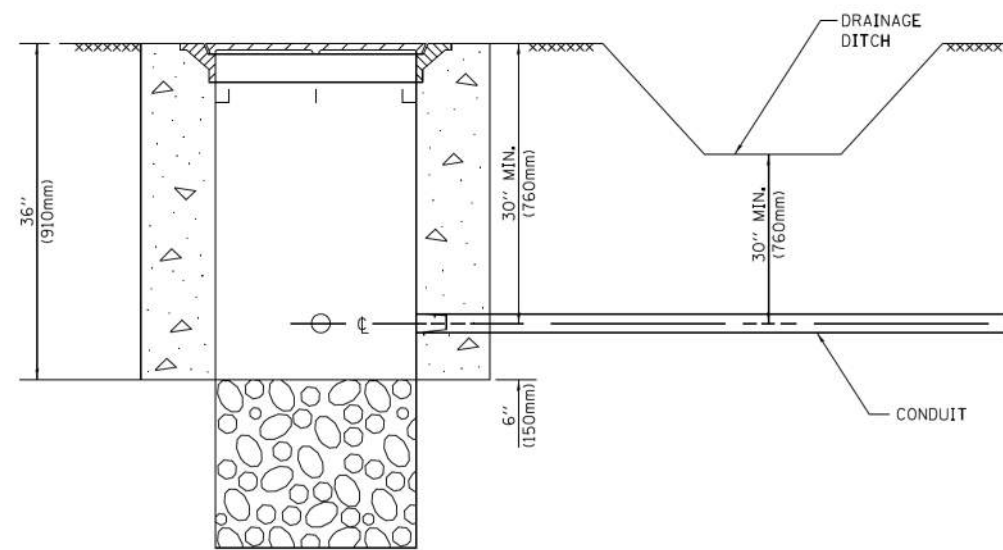
**DEPTH OF FOUNDATION**

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	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 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

**NOTES:**

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 (qu) > 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 mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

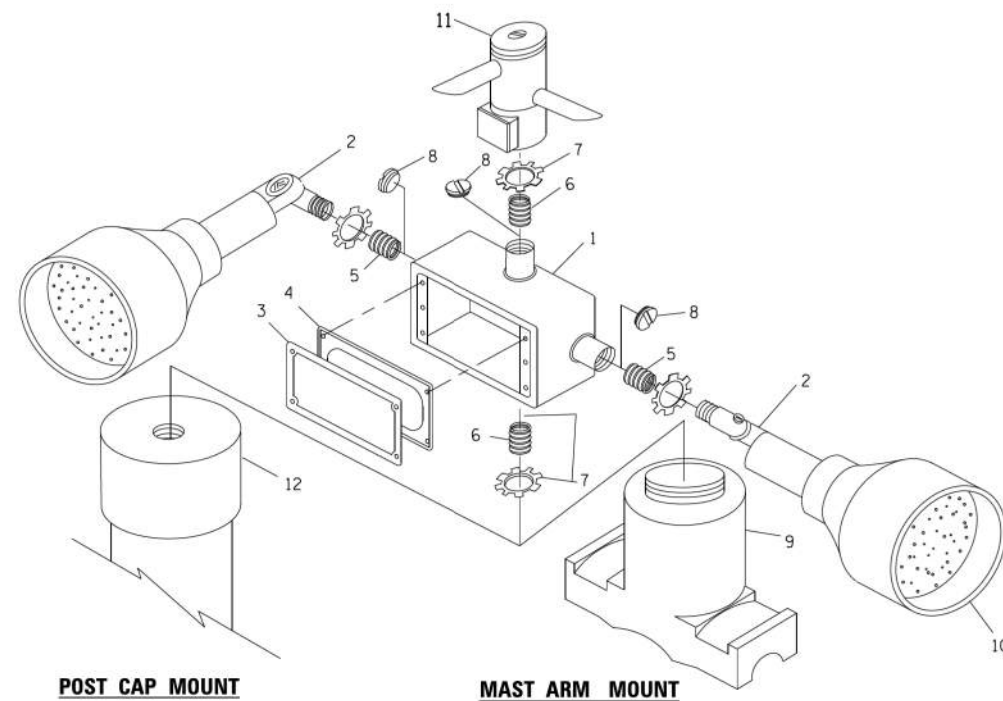
**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**



**NOTES:**

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. 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.

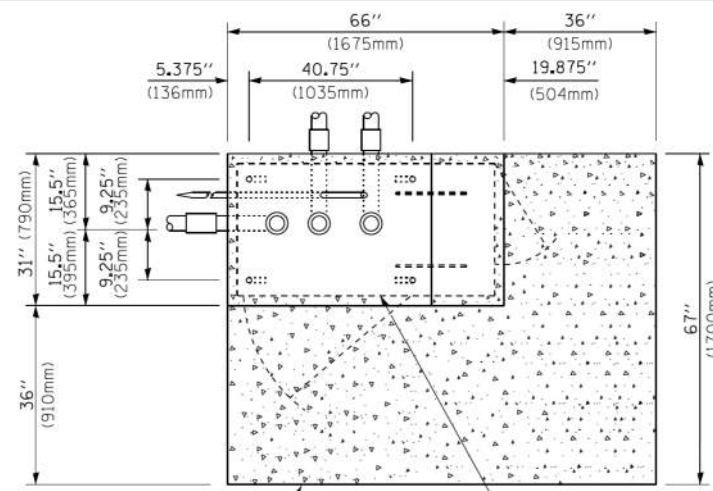
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



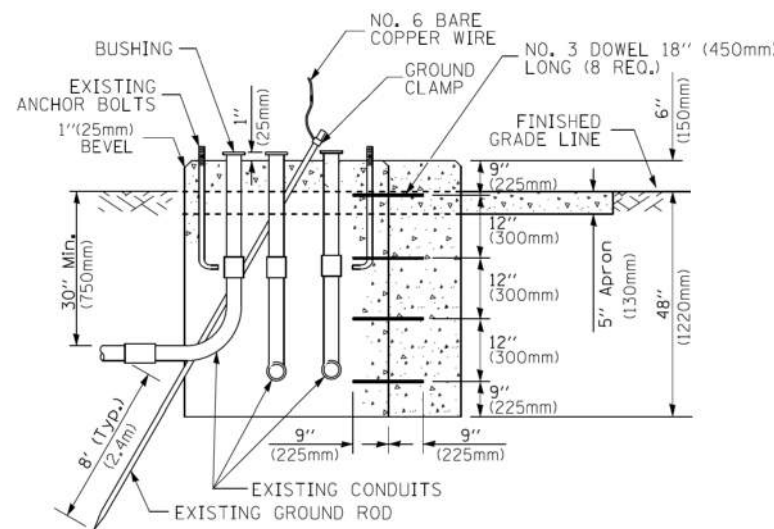
**POST CAP MOUNT**

**MAST ARM MOUNT**

**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**



**TOP VIEW**  
(NOT TO SCALE)

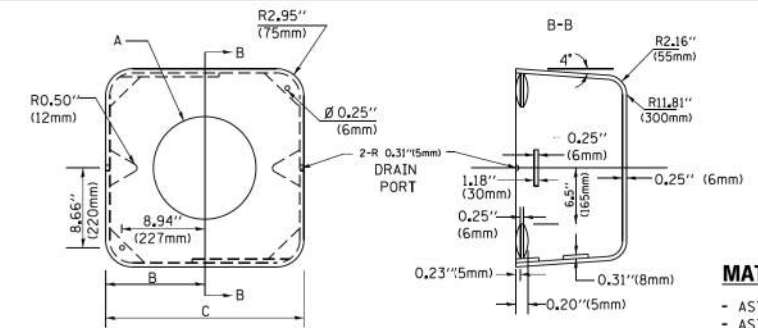


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

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	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (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:**

1. 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.



**MATERIAL:**

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

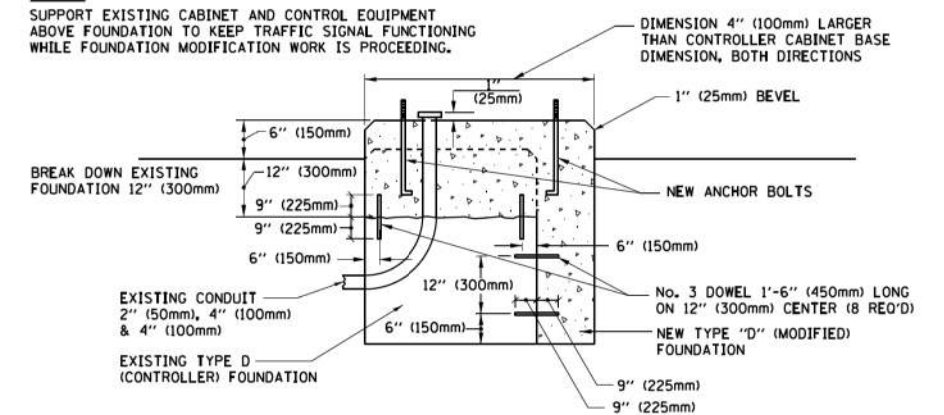
**SHROUD**

**NOTES:**

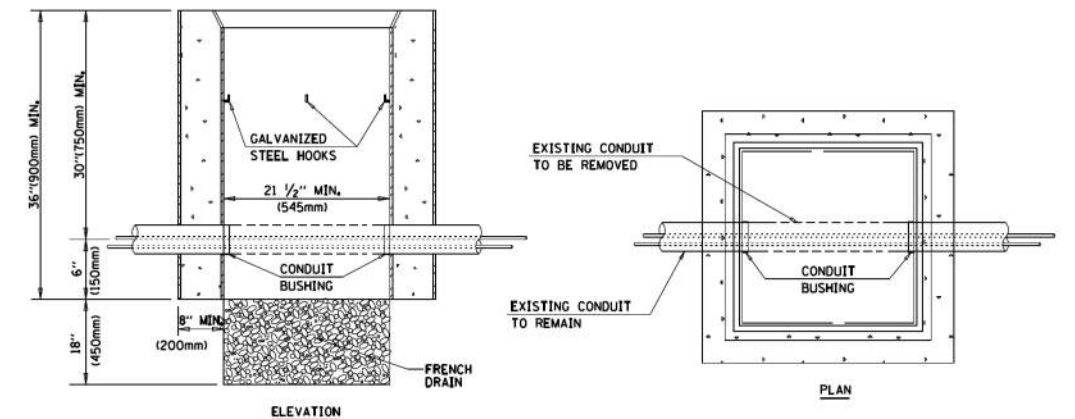
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



**MODIFY EXISTING TYPE "D" FOUNDATION**



**NOTES:**

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**

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ca:\p\work\p\dot\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

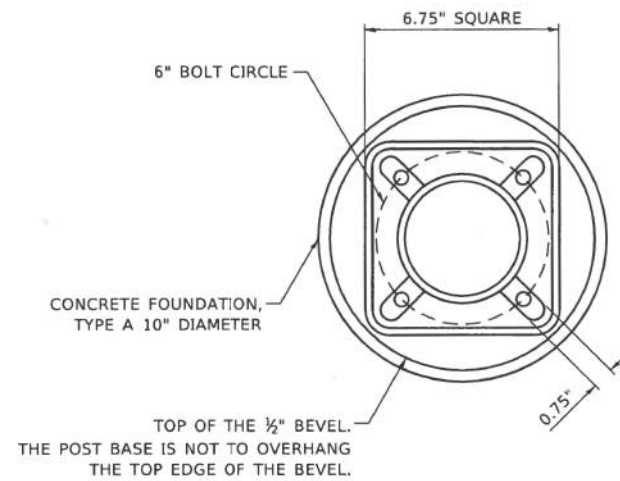
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE

SHEET NO. 6 OF 7 SHEETS STA. TO STA.

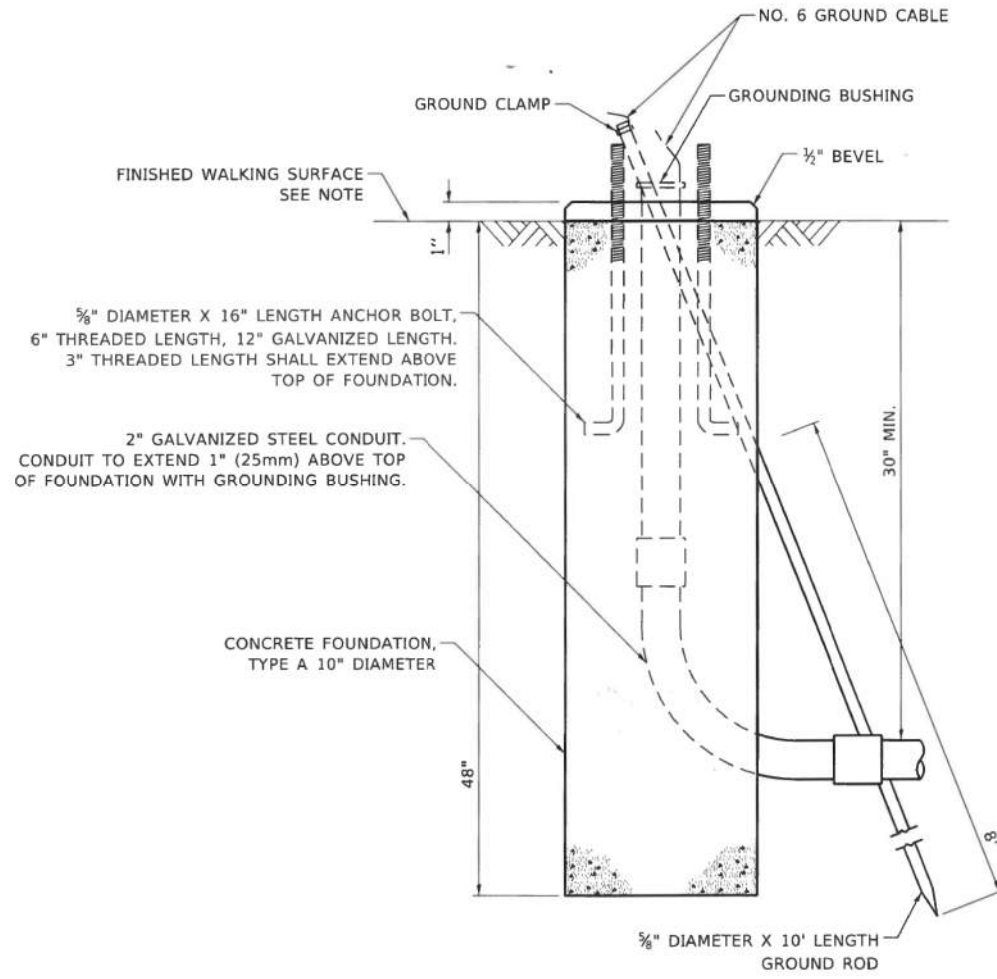
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	21
<b>TS-05</b>		CONTRACT NO.	61G78	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



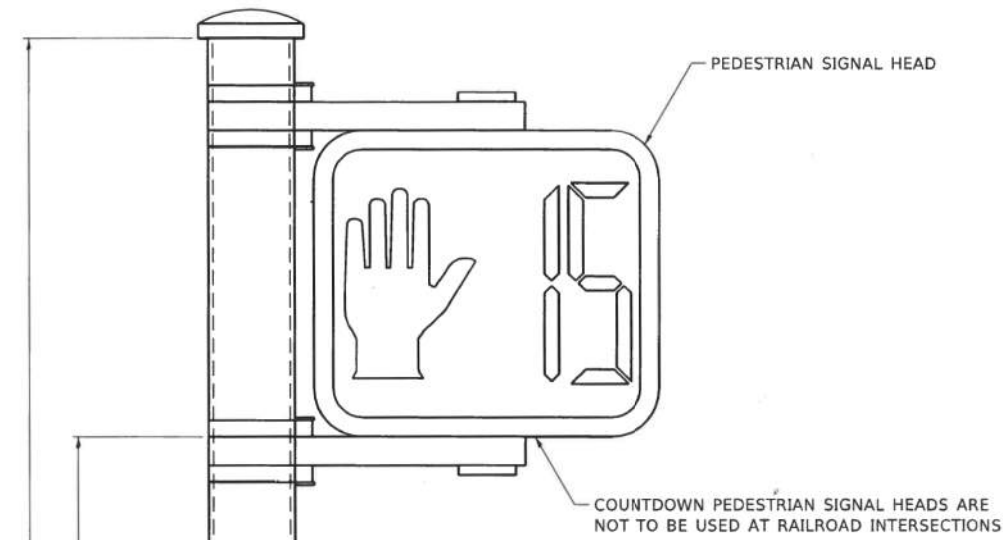
**BOLT PATTERN**

**NOTE:**

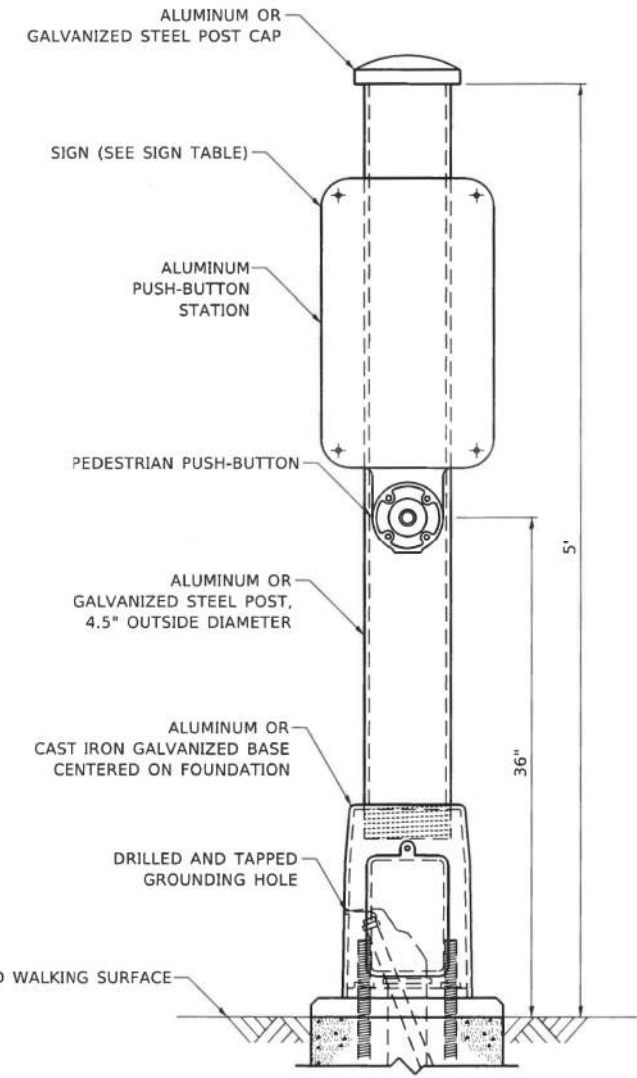
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



**CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER**



**PEDESTRIAN SIGNAL POST, 10 FT.**



**PEDESTRIAN SIGNAL POST, 5 FT.**



**SIGN TABLE**

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.

MODEL: Default  
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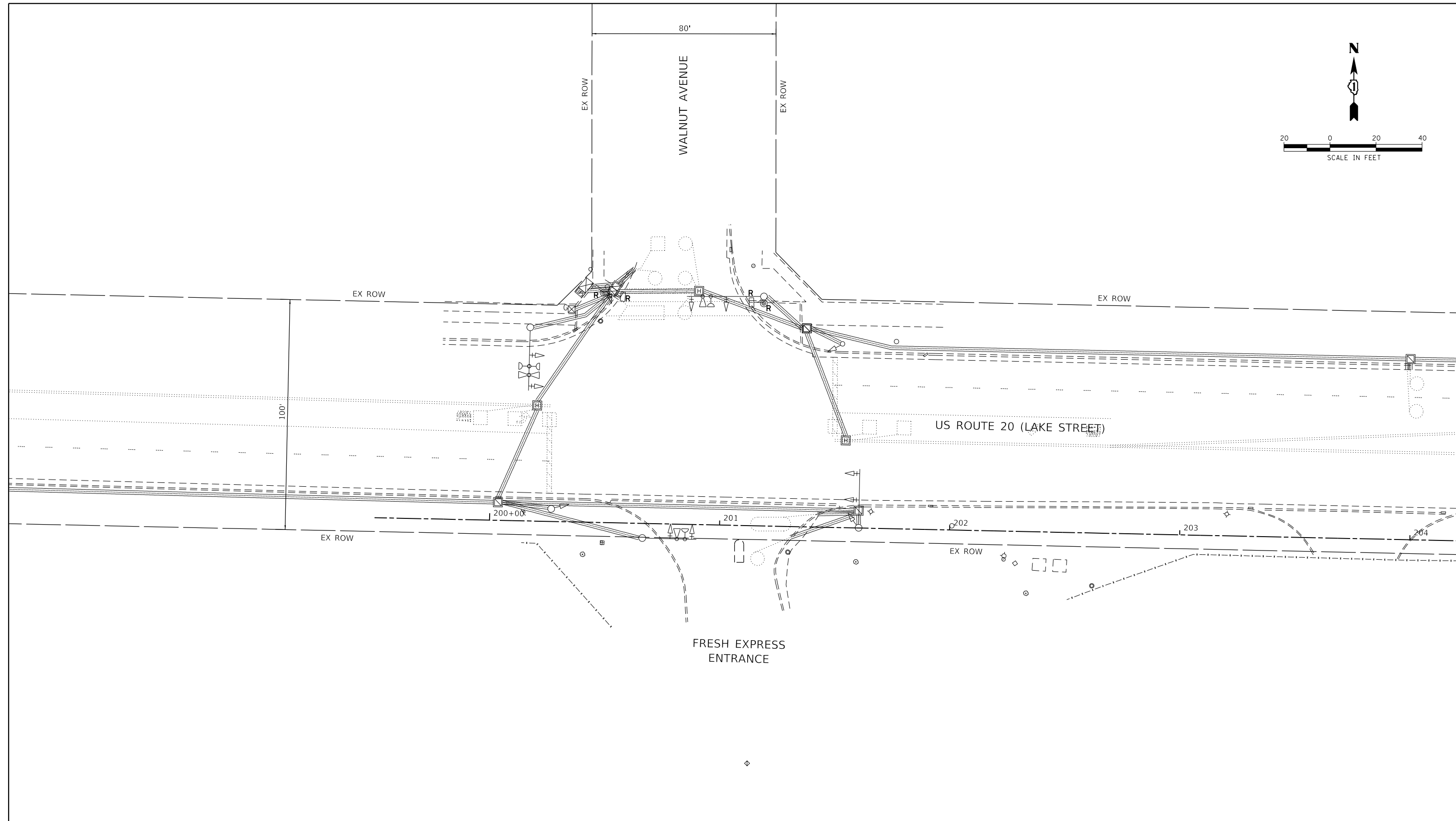
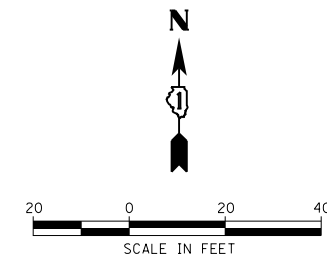
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NTS SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	22
TS-05		CONTRACT NO. 61G78		
ILLINOIS FED. AID PROJECT				



**REMOVAL NOTES:**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH PEDESTRIAN PUSH-BUTTON
- 2 EACH PEDESTRIAN SIGNAL HEAD

HRG PROJECT NO. 171094  
 HRG PROJ. CONTACT:  
 FILE NAME: 13-00056-00-SW-sigrem\_0.dgn  
 PEN TABLE: sigrem.tbl



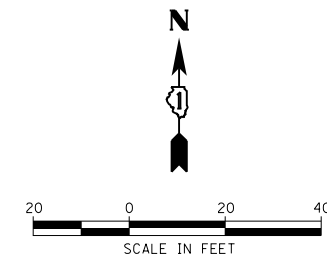
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PLOT DATE = 11/2/2020	DATE - XX/XX/XXXX	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)  
REMOVE EXISTING TRAFFIC SIGNALS PLAN**

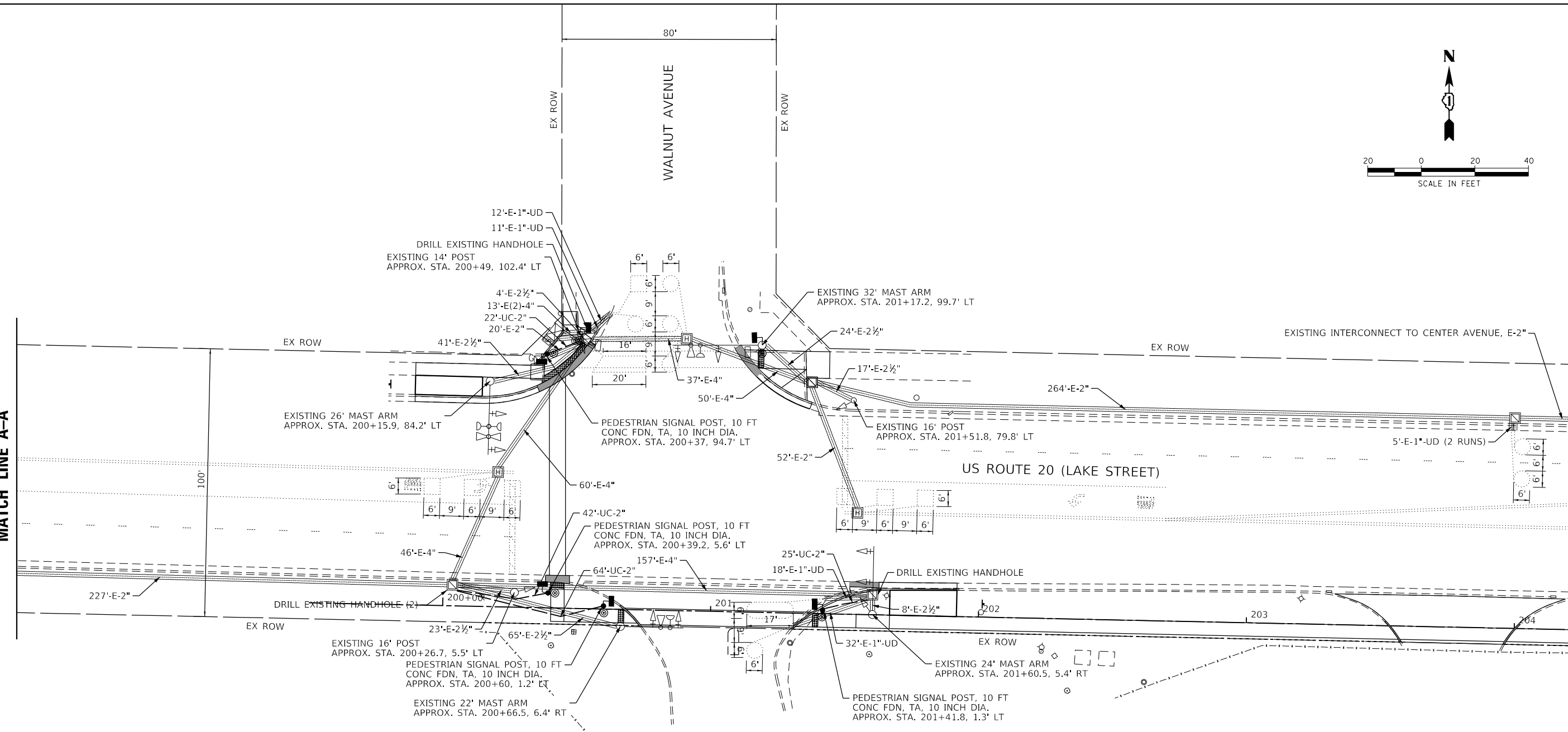
SCALE: 1"=20'    SHEET 1 OF 3 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	23
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61G78	



MATCH LINE A-A

MATCH LINE A-A



- NOTES:**
- ALL NEW TRAFFIC SIGNAL EQUIPMENT SHALL ARRIVE AT THE PROJECT SITE WITH A BLACK FACTORY FINISH IN ACCORDANCE WITH THE SPECIFICATIONS.

**TS NO. TS 20575  
SYSTEM NO. EAGLE 5F**

HRG PROJECT NO. 171094  
 HRG PROJ. CONTACT:  
 FILE NAME: 171094-571-sig-01.dgn  
 PEN TABLE: sig-table.tbl



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PLOT SCALE =	DRAWN - XXX	REVISED - XX/XX/XXXX
PLOT DATE = 11/2/2020	CHECKED - XXX	REVISED - XX/XX/XXXX
	DATE - XX/XX/XXXX	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

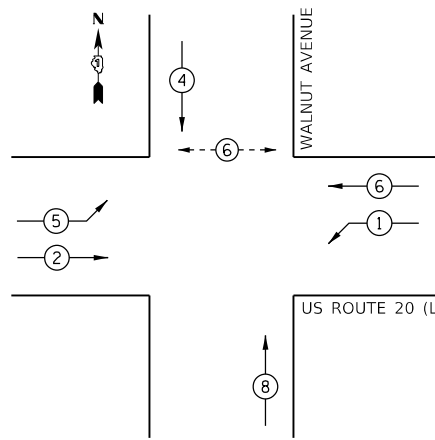
**US ROUTE 20 (LAKE STREET)  
TRAFFIC SIGNAL INSTALLATION PLAN**

SCALE: 1"=20'    SHEET 2 OF 3 SHEETS    STA. TO STA.

F.A.P. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	24
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G78	

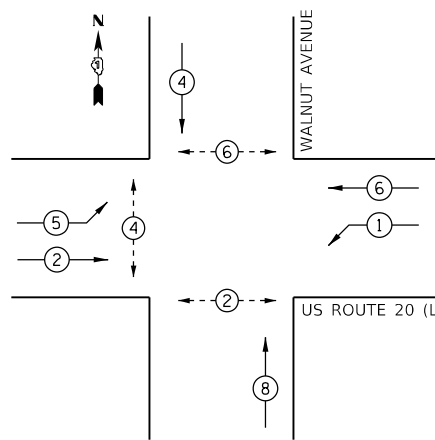


EXISTING CONTROLLER SEQUENCE

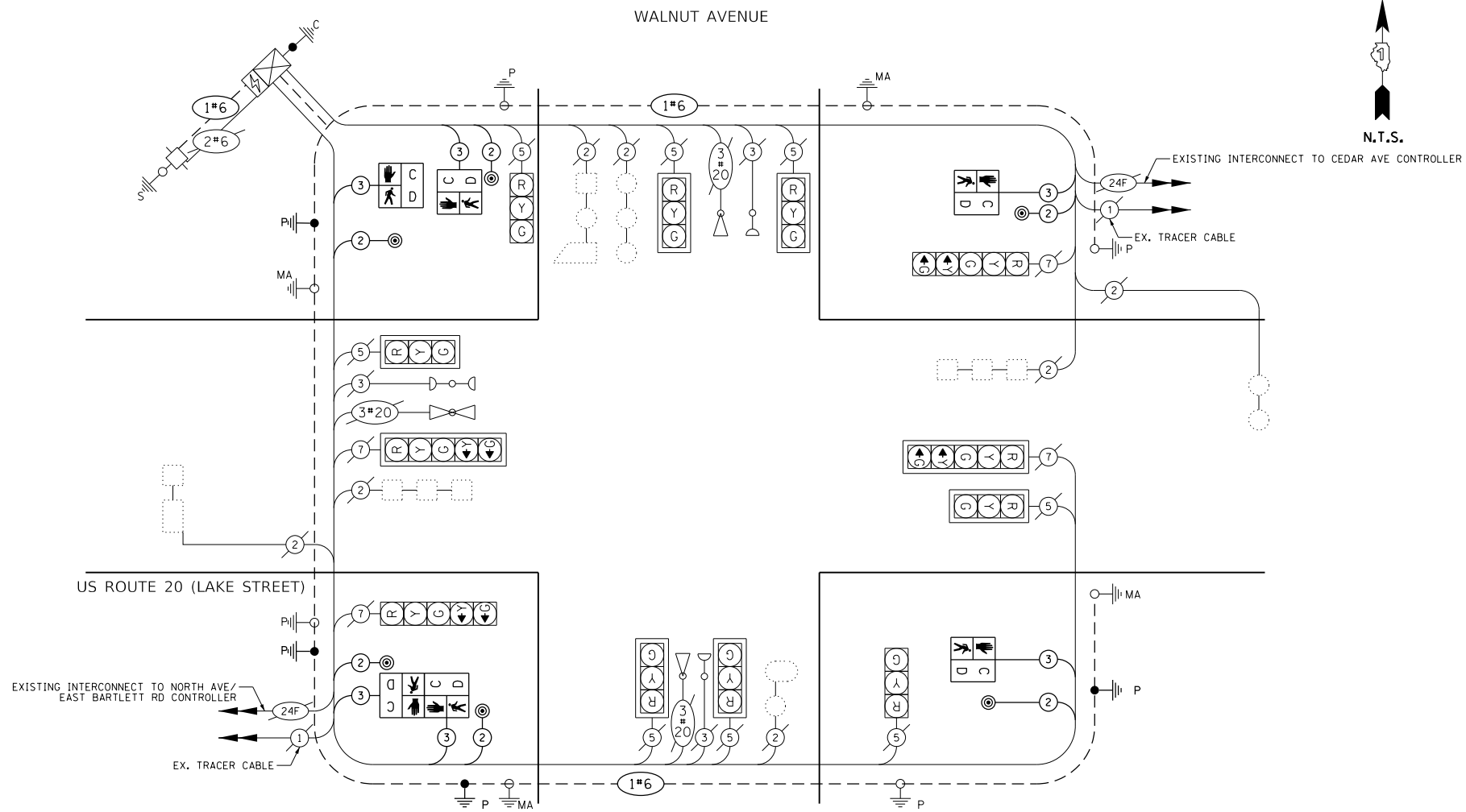


- LEGEND:
- ← \* → DUAL ENTRY PHASE
  - ← \* → OVERLAP
  - ← \* → PEDESTRIAN PHASE
  - NUMBER REFERRING TO ASSOCIATED PHASE

PROPOSED CONTROLLER SEQUENCE



- LEGEND:
- ← \* → DUAL ENTRY PHASE
  - ← \* → OVERLAP
  - ← \* → PEDESTRIAN PHASE
  - NUMBER REFERRING TO ASSOCIATED PHASE



CABLE PLAN

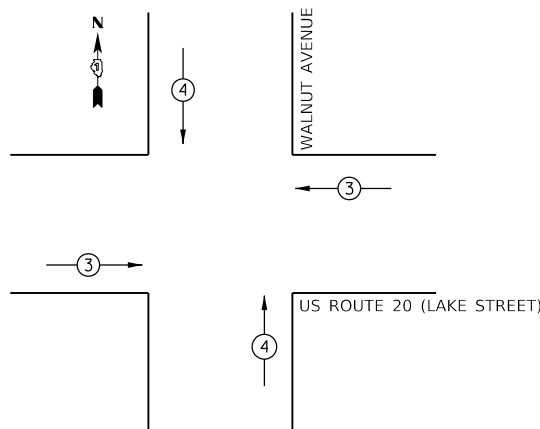
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	153
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	3
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,104
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,146
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	850
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	16
DRILL EXISTING HANDHOLE	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
PEDESTRIAN PUSH-BUTTON	EACH	6
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	422
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4
REBUILD EXISTING HANDHOLE	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

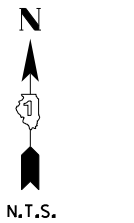
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	17	50	102.0
(YELLOW)	12	25	25	75.0
(GREEN)	12	15	25	45.0
PERMISSIVE ARROW	8	12	10	9.6
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				476.6

ENERGY COSTS TO:  
 VILLAGE OF HANOVER PARK  
 2121 W. LAKE ST  
 HANOVER PARK, IL 60133  
 ENERGY SUPPLY: CONTACT: AARON BABU  
 PHONE: 708-683-9348  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: ---

EXISTING & PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTOR	
EMERGENCY VEHICLE PREEMPTORS	3 4
MOVEMENT	==



HRG PROJECT NO.: 171094  
 HRG PROJ. CONTACT:  
 FILE NAME: 02/24/2020-577-sigsab-01.dgn  
 PEN TABLE: sigsab.tbl



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 DESIGNED - JJS  
 DRAWN - XXX  
 PLOT SCALE =  
 PLOT DATE = 11/22/2020  
 REVISIONS:  
 REVISION NO. | DATE | DESCRIPTION  
 1 | XX/XX/XXXX |  
 2 | XX/XX/XXXX |  
 3 | XX/XX/XXXX |  
 4 | XX/XX/XXXX |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

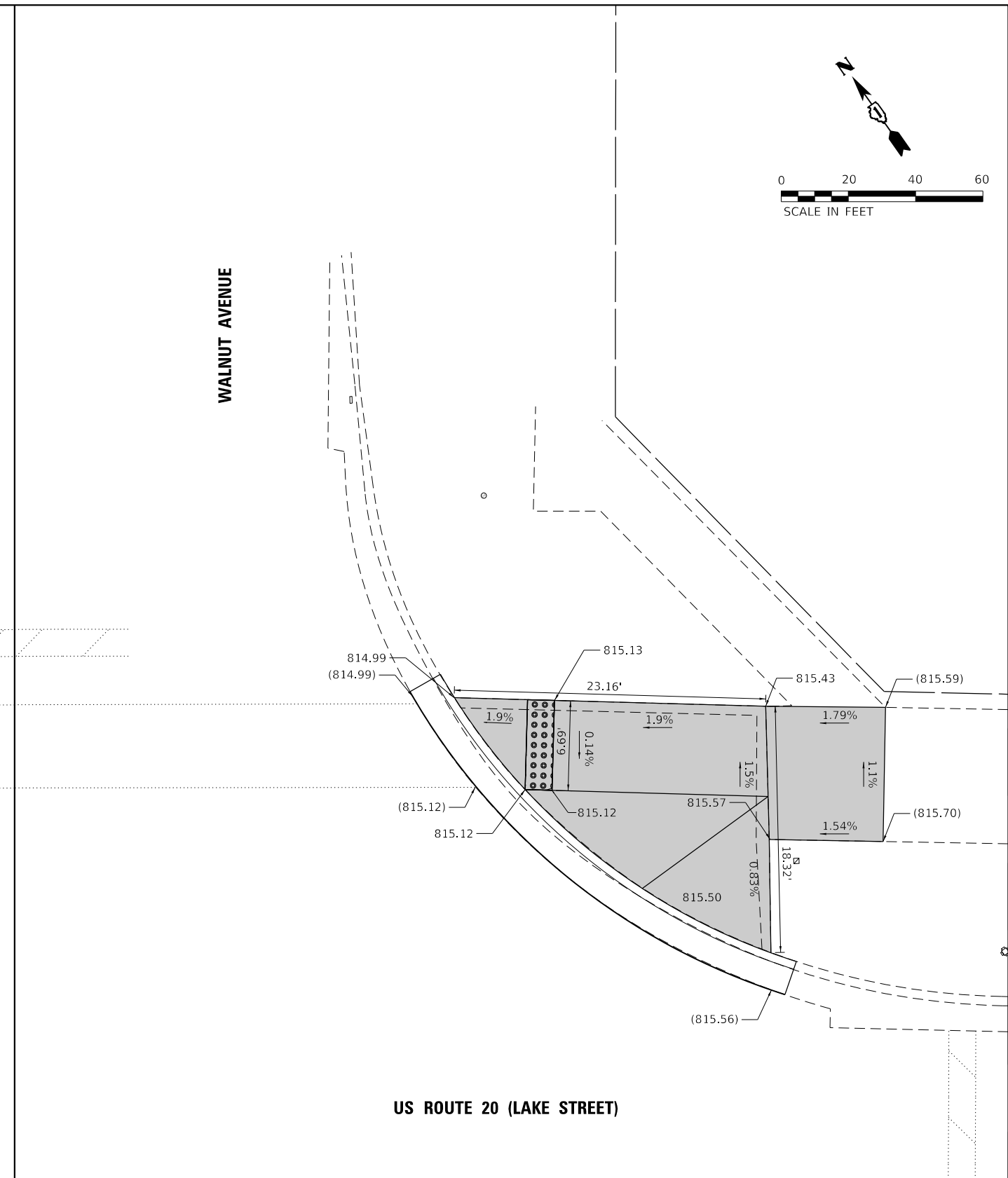
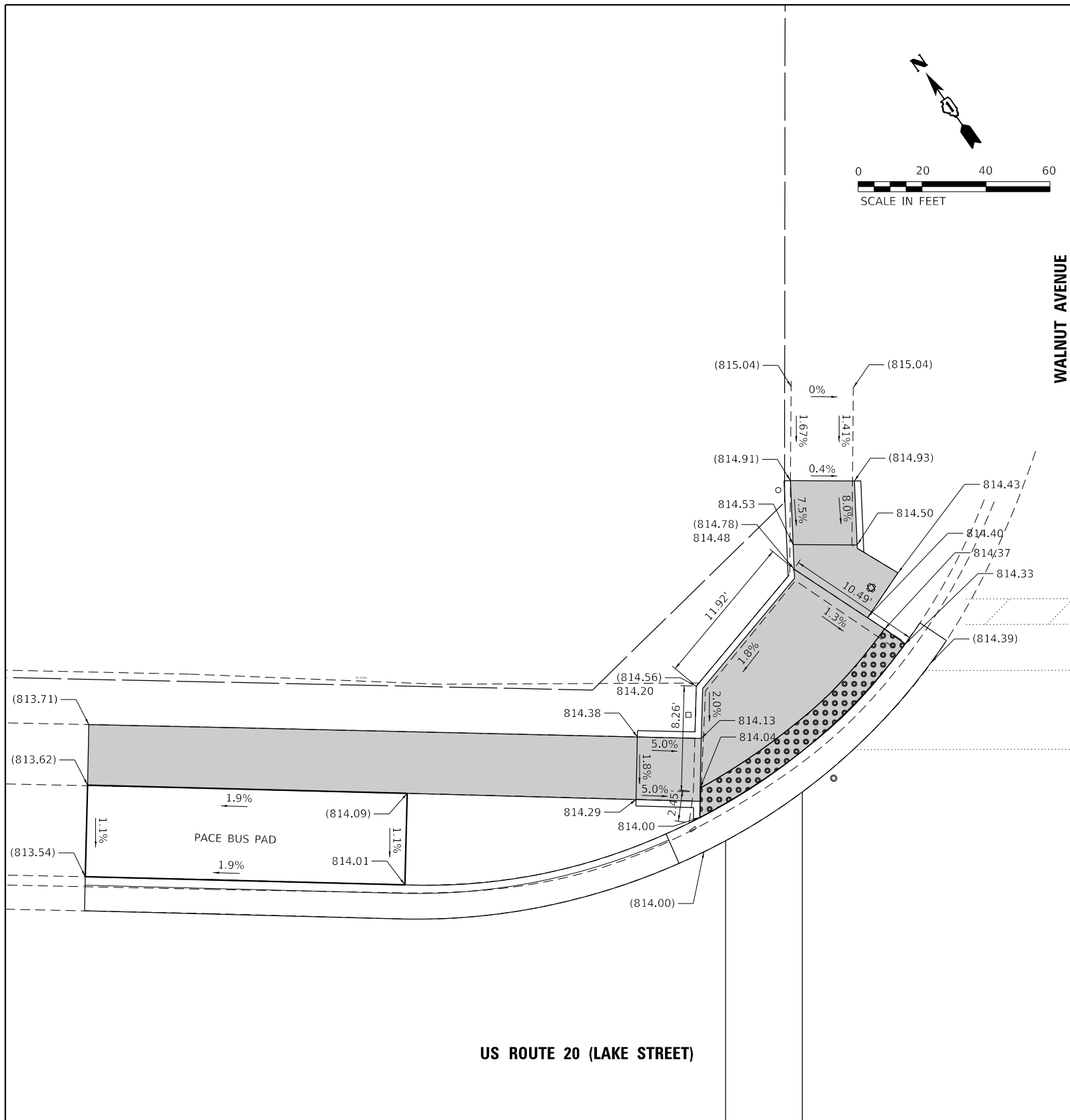
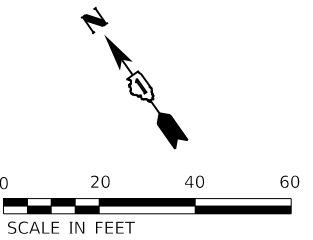
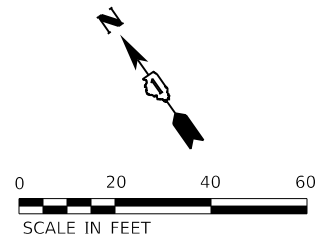
US ROUTE 20 (LAKE STREET)  
CABLE PLAN

SCALE: N.T.S. SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	25
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 61G78

TS NO. TS 20575  
SYSTEM NO. EAGLE 5F



**LEGEND**

	EXISTING LENGTH		PROPOSED SIDEWALK
	PROPOSED SIDE CURB		DETECTABLE WARNINGS
	EXISTING ELEVATION/SLOPE		SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

HRG PROJECT NO.: 171094  
 HRG PROJ. CONTACT:  
 FILE NAME: 13-00056-00-SW-1-1-17.dwg  
 PEN TABLE: 13-00056-00.dwg



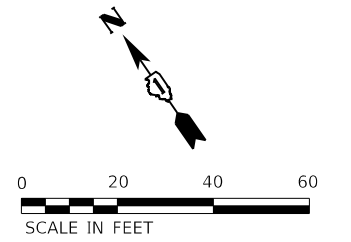
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PLOT SCALE =	CHECKED - XXX	REVISED - XX/XX/XXXX
PLOT DATE = 11/2/2020	DATE - XX/XX/XXXX	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

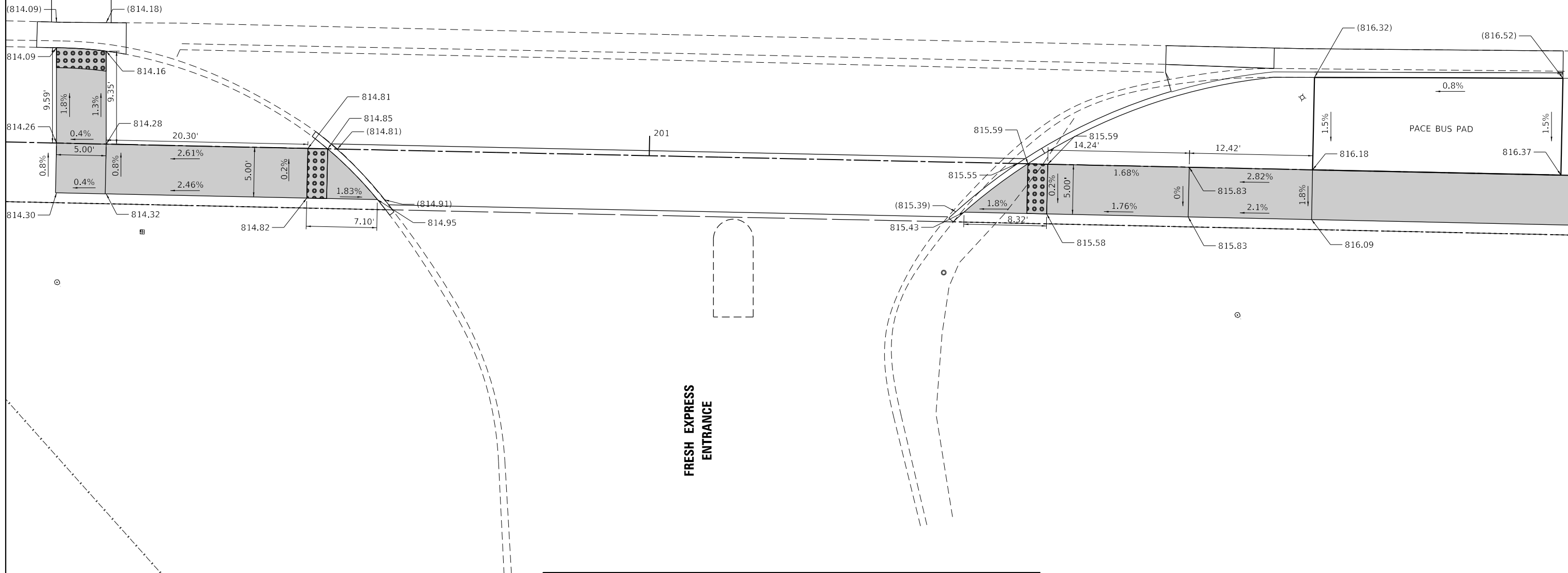
**US ROUTE 20 (LAKE STREET)  
 SIDEWALK RAMP DETAIL PLAN**

SCALE: 1"=5'      SHEET 1 OF 2 SHEETS      STA.      TO STA.

F.A.P. RTE. 345	SECTION NO. 13-00056-00-SW	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 26
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G78	



**US ROUTE 20 (LAKE STREET)**



LEGEND	
XX.XX'	EXISTING LENGTH
==	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
[Grey Box]	PROPOSED SIDEWALK
[Dotted Box]	DETECTABLE WARNINGS
[Cross-hatched Box]	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

HRG PROJECT NO.: 171094  
 HRG PROJ. CONTACT:  
 FILE NAME: 13-00056-00-SW-13-00056-00-SW-13-00056-00-SW-13-00056-00-SW.dgn  
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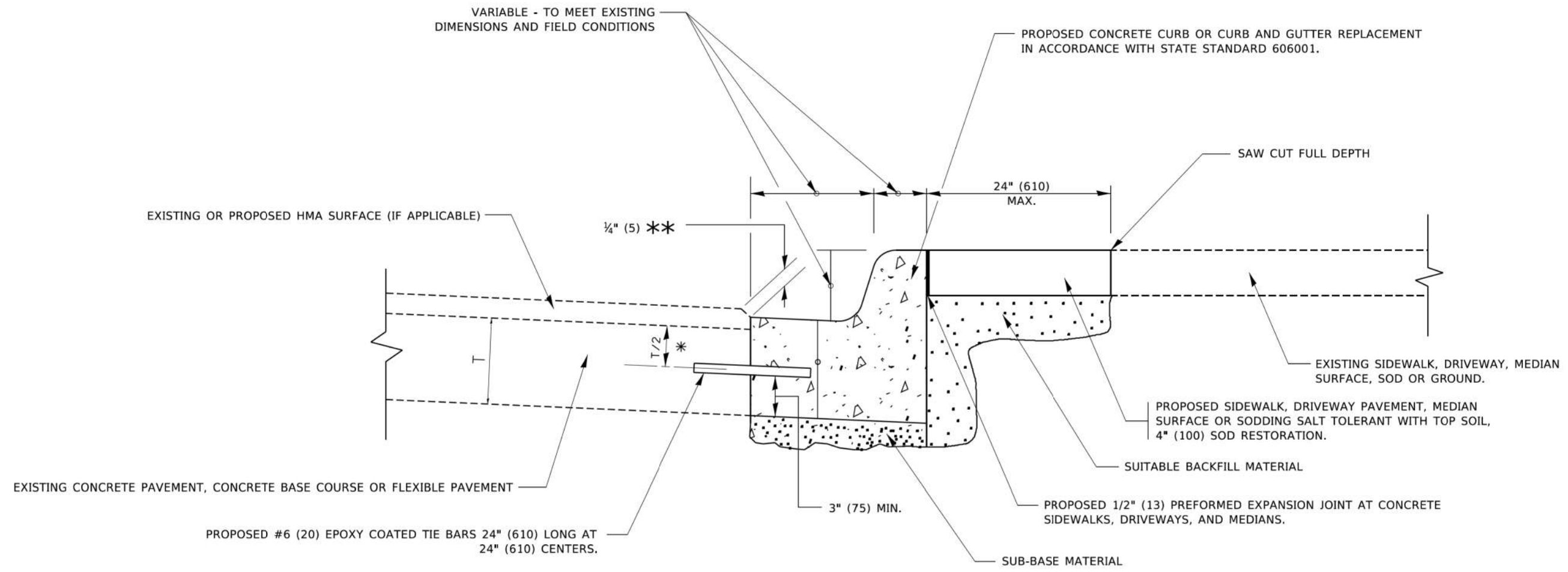
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PLOT DATE = 11/2/2020	DATE - XX/XX/XXXX	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)  
SIDEWALK RAMP DETAIL PLAN**

SCALE: 1"=5'      SHEET 2 OF 2 SHEETS      STA.      TO STA.

F.A.P. RTE. 345	SECTION NO. 13-00056-00-SW	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 27
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G78	

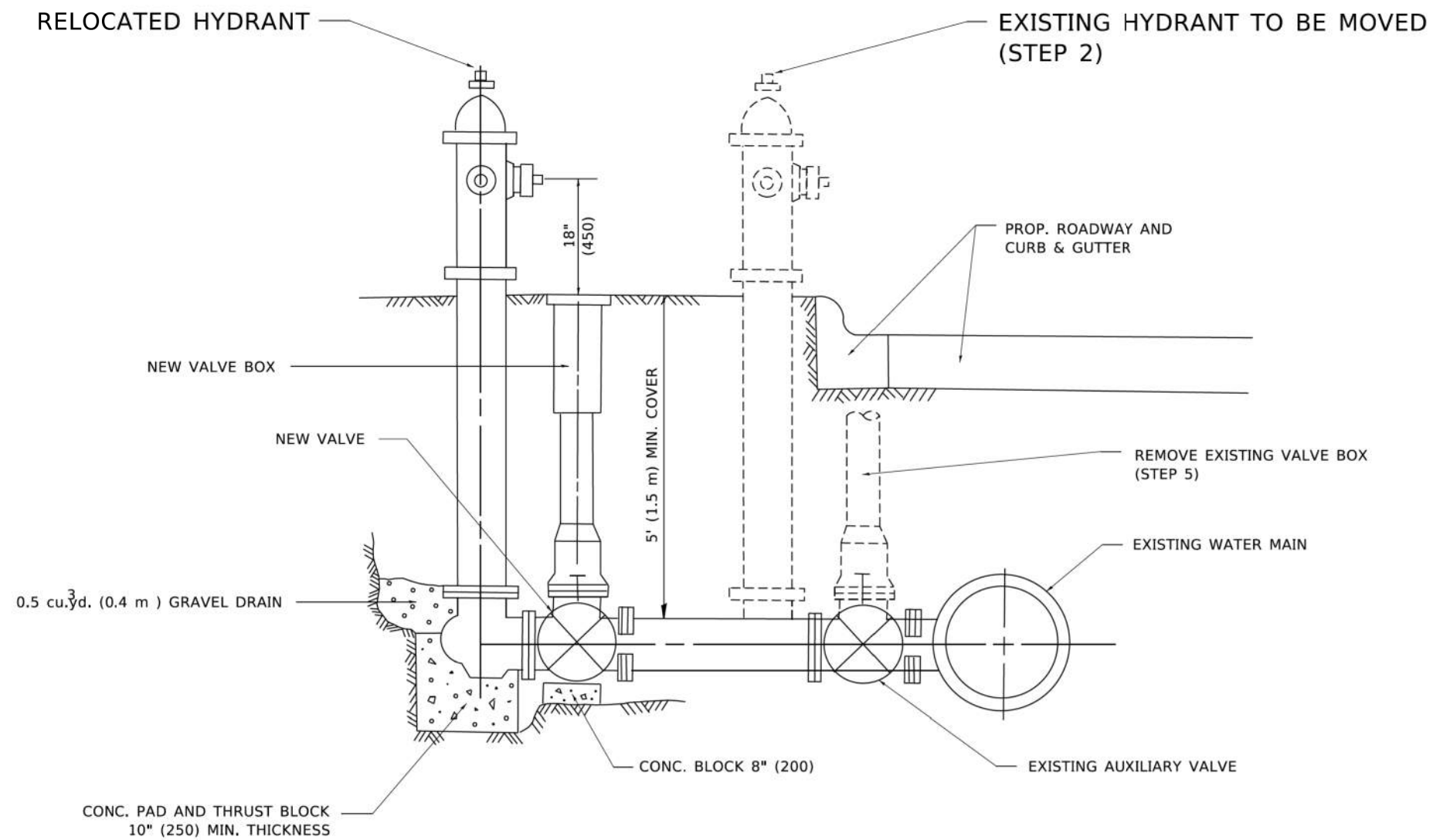


- \* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- \*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

MODEL: Default FILE: M:\METE... PROJECT: ...	USER NAME = footemj DESIGNED - A. HOUSEH DRAWN - PLOT SCALE = 50,0000' / 1: PLOT DATE = 7/11/2019	DESIGNED - A. HOUSEH DRAWN - CHECKED - DATE - 03-11-94	REVISED - A. ABBAS 03-21-97 REVISED - M. GOMEZ 01-22-01 REVISED - R. BORO 12-15-09 REVISED - K. SMITH 07-11-19	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CURB OR CURB AND GUTTER</b> <b>REMOVAL AND REPLACEMENT</b>	SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.	F.A. RTE. 345 SECTION 13-00056-00-SW <b>BD600-06 (BD-24)</b> COUNTY COOK ILLINOIS FED. AID PROJECT	TOTAL SHEETS 39 SHEET NO. 28 CONTRACT NO. 61G78
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**SEQUENCE OF CONSTRUCTION:**

1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

**NOTE:**

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

# FIRE HYDRANT TO BE MOVED

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

MODEL: Default  
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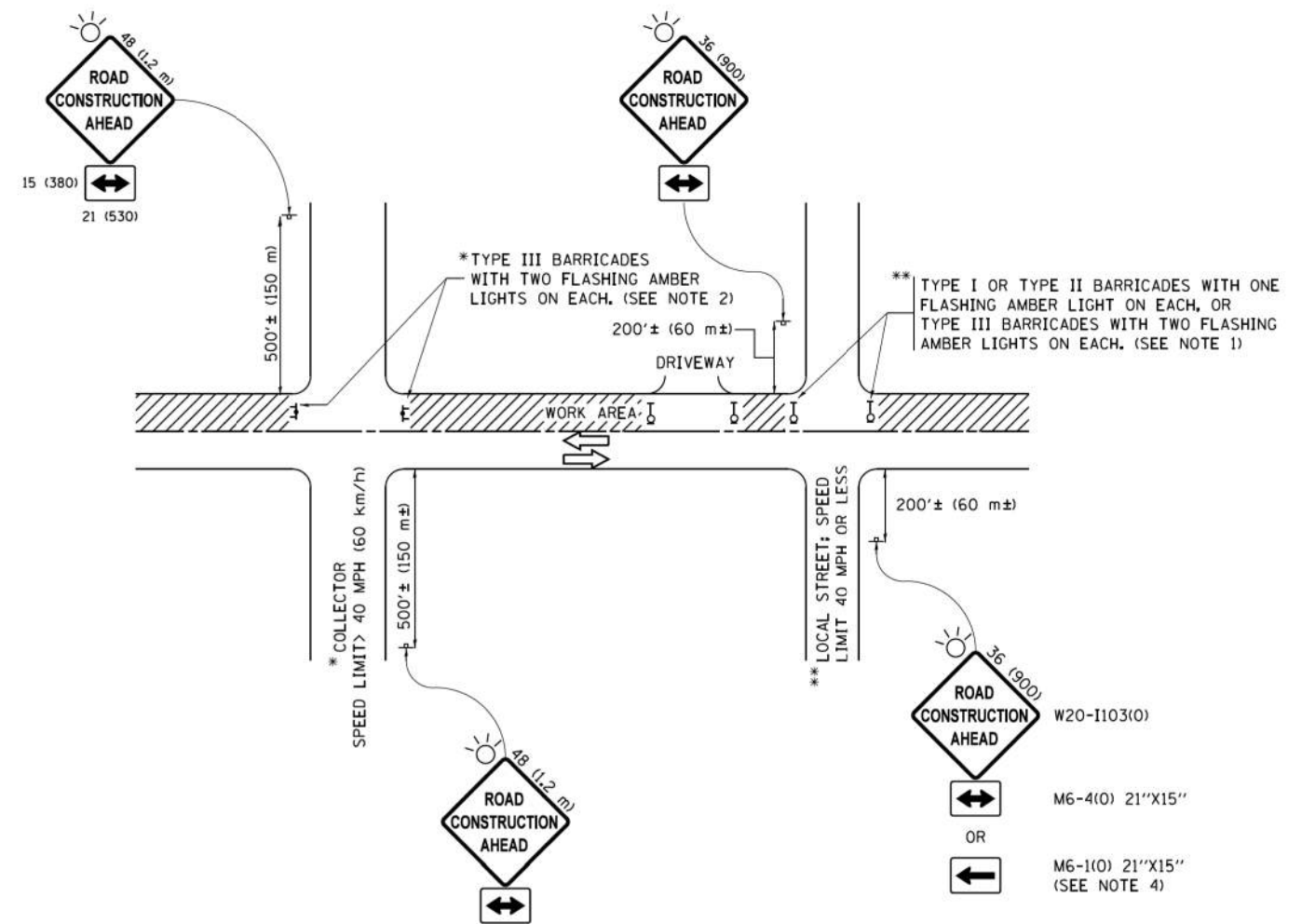
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	DRAWN -	REVISED - R. SHAH 10-25-94
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PLOT DATE = 3/27/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIRE HYDRANT TO BE MOVED**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	29
<b>BD-36</b>			CONTRACT NO. 61G78	
ILLINOIS FED. AID PROJECT				



**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.
2. 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.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY 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) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
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.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. 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.

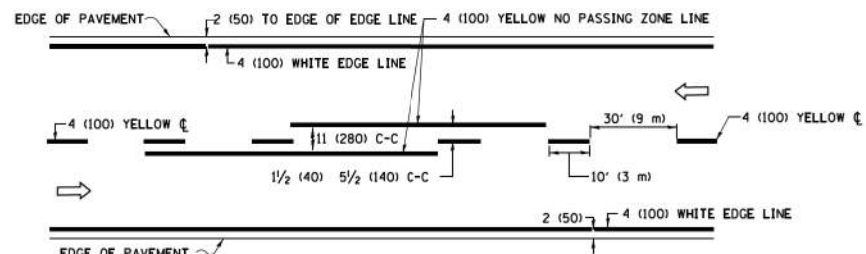
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pw\11084E8ID\INTEG\Illinois.gov\FWIDOT\Documents\DOT Offices\District 1\Projects\Dist		DRAWN - CADData\CADsheets\to18.dgn	REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 50,000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

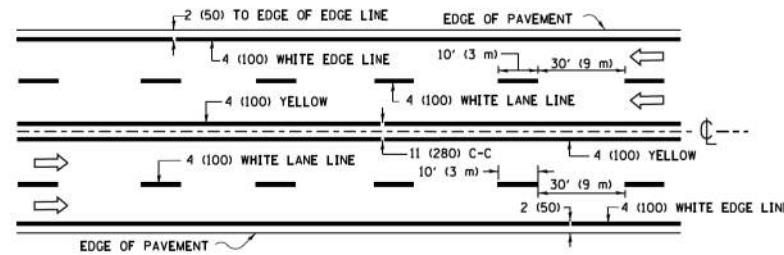
**TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

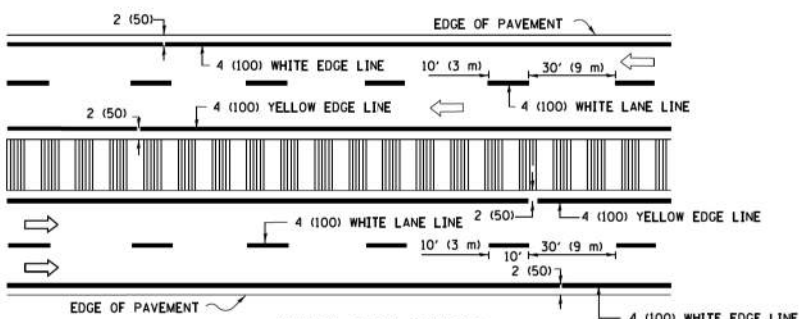
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	30
<b>TC-10</b>			<b>CONTRACT NO. 61G78</b>	
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

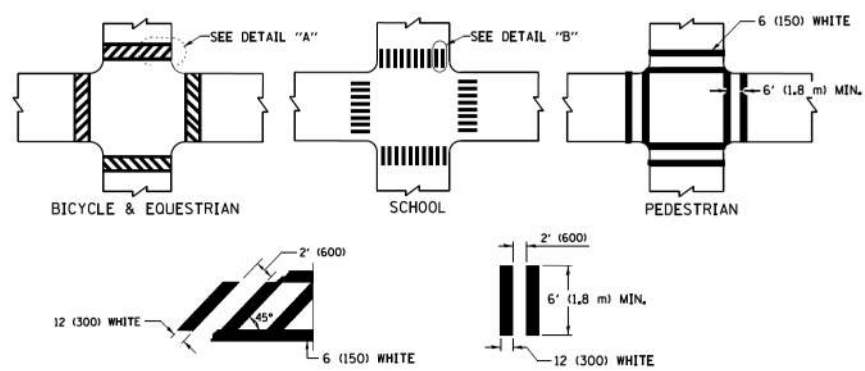


**MULTI-LANE UNDIVIDED**



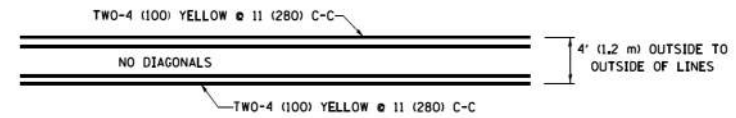
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

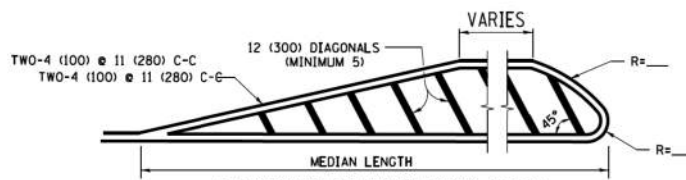


**TYPICAL CROSSWALK MARKING**

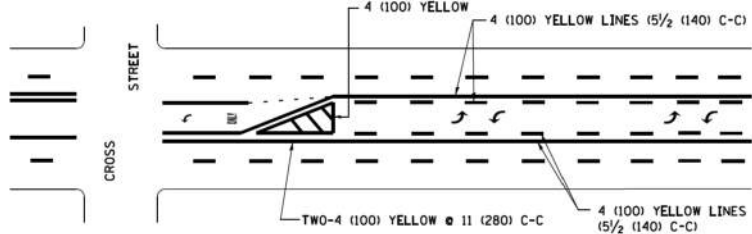
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



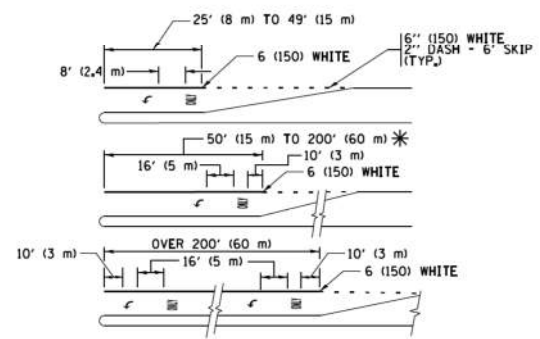
**4' (1.2 m) WIDE MEDIANS ONLY**



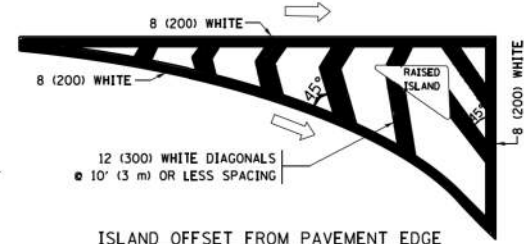
**MEDIANS OVER 4' (1.2 m) WIDE**



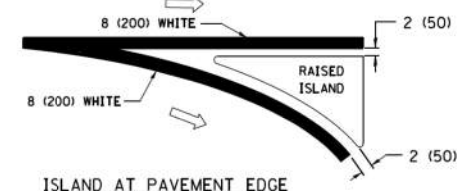
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**



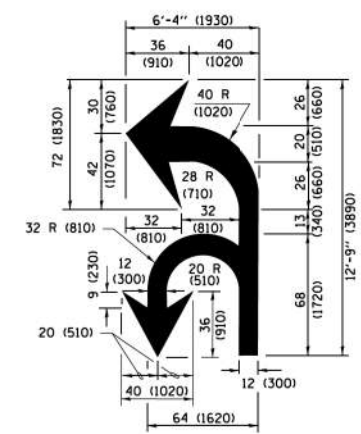
**TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING**



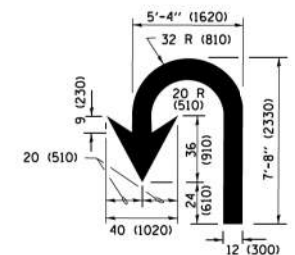
**ISLAND OFFSET FROM PAVEMENT EDGE**



**ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	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 POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	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))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

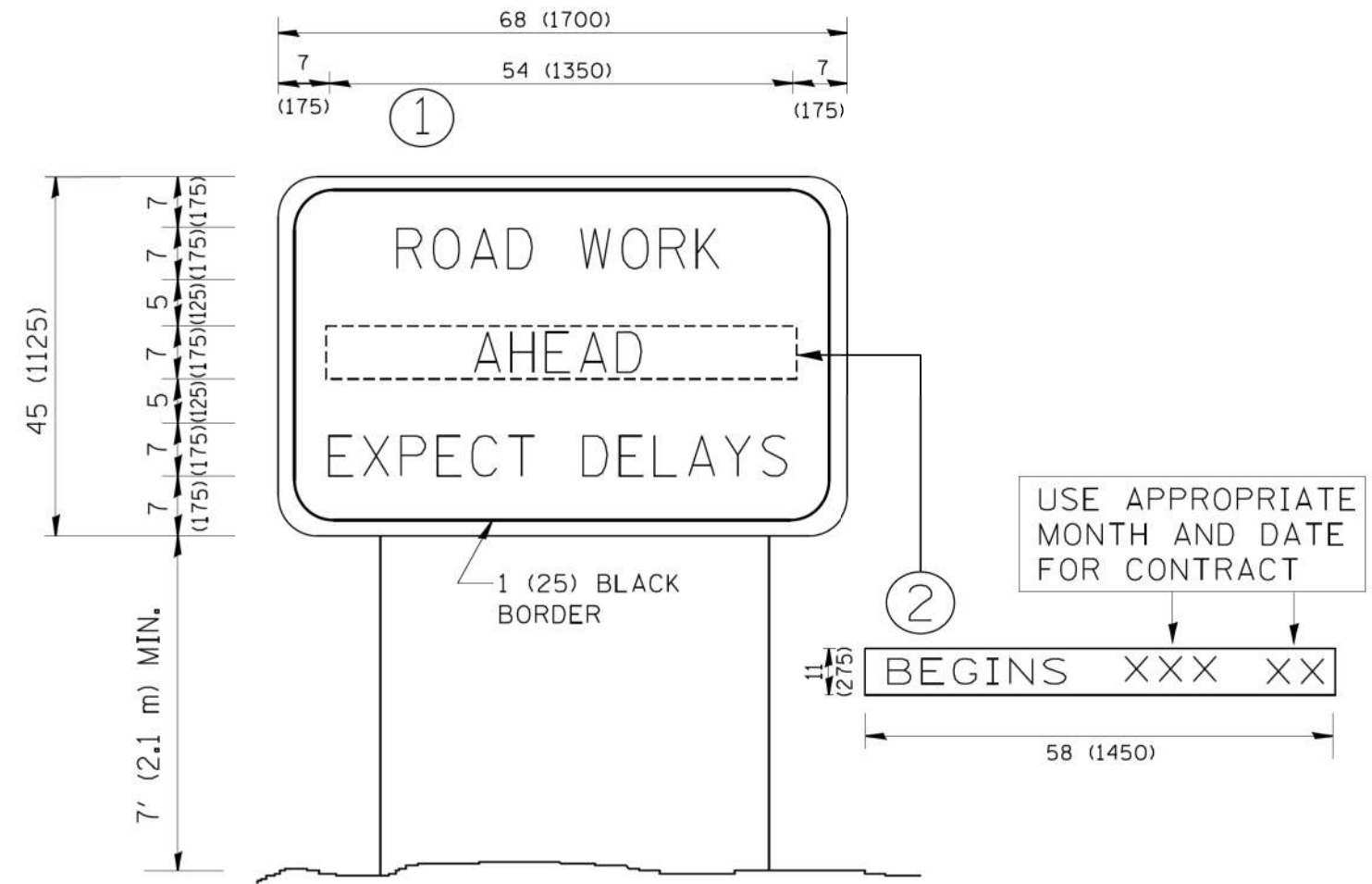
All dimensions are in inches (millimeters) unless otherwise shown.

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Default	PLOT SCALE = 58,800' / in	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 4/13/2016		REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE</b>			
<b>TYPICAL PAVEMENT MARKINGS</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	31
<b>TC-13</b>			<b>CONTRACT NO. 61G78</b>	
ILLINOIS FED. AID 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.

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

FILE NAME = W:\diststa\22x34\te22.dgn	USER NAME = gegl1enobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
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	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

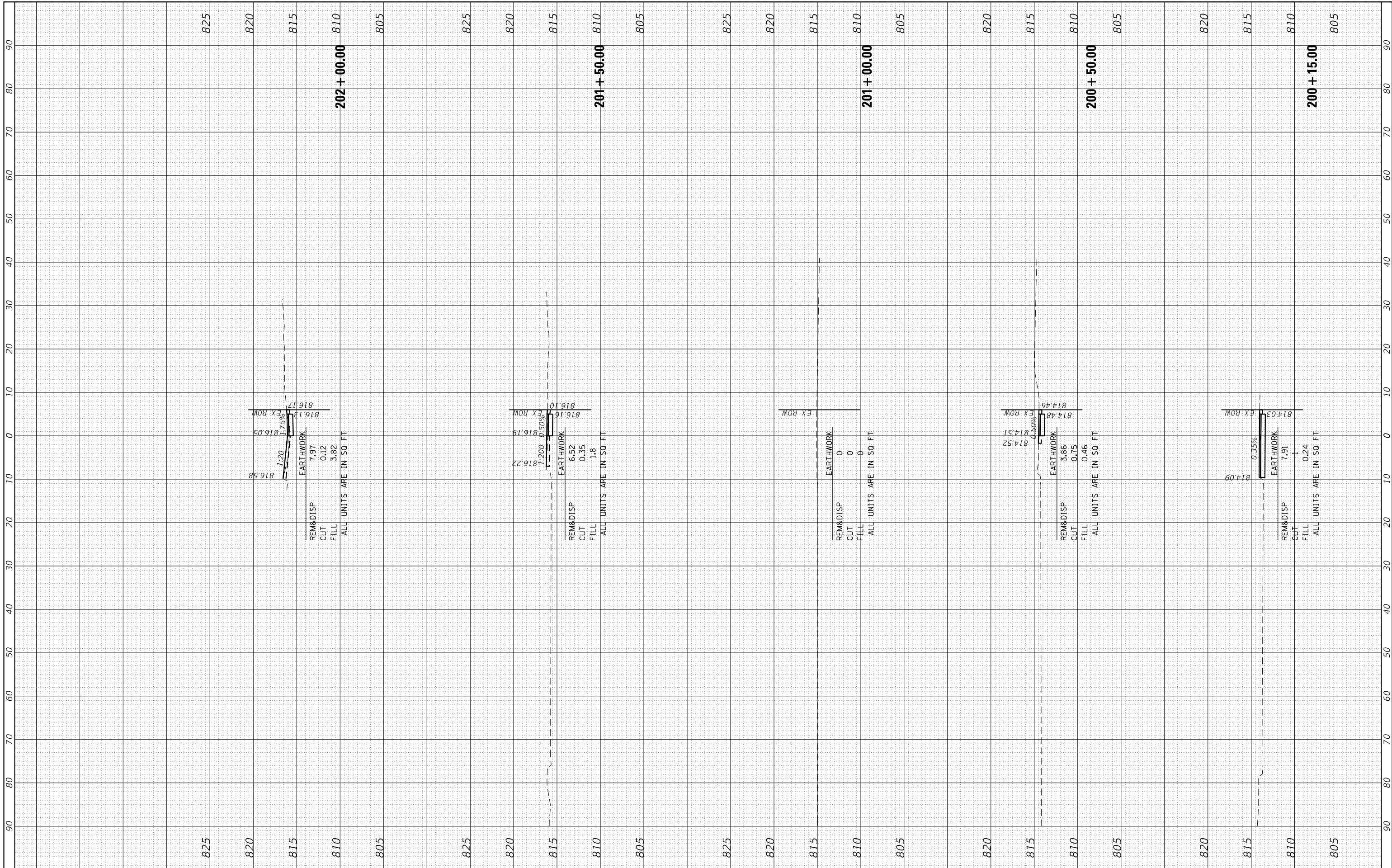
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345	13-00056-00-SW	COOK	39	32
TC-22		CONTRACT NO. 61G78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	
SURVEYED PLOTTED TEMPLATE AREAS CHECKED	
BY	
DATE	

ORIGINAL SURVEY NO.	
SURVEYED PLOTTED TEMPLATE AREAS CHECKED	
BY	
DATE	

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 PLOT DRIVER: il\_def\_bwp1r1c1g  
 PEN TABLE: p101a0e1.td1



USER NAME	- dstencz
DESIGNED	- JJS
DRAWN	- DMS
CHECKED	-
DATE	-

REVISIONS	
REVISED	- XX/XX/XXXX
REVISED	- XX/XX/XXXX
REVISED	- XX/XX/XXXX
REVISED	- XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)  
 CROSS SECTIONS**

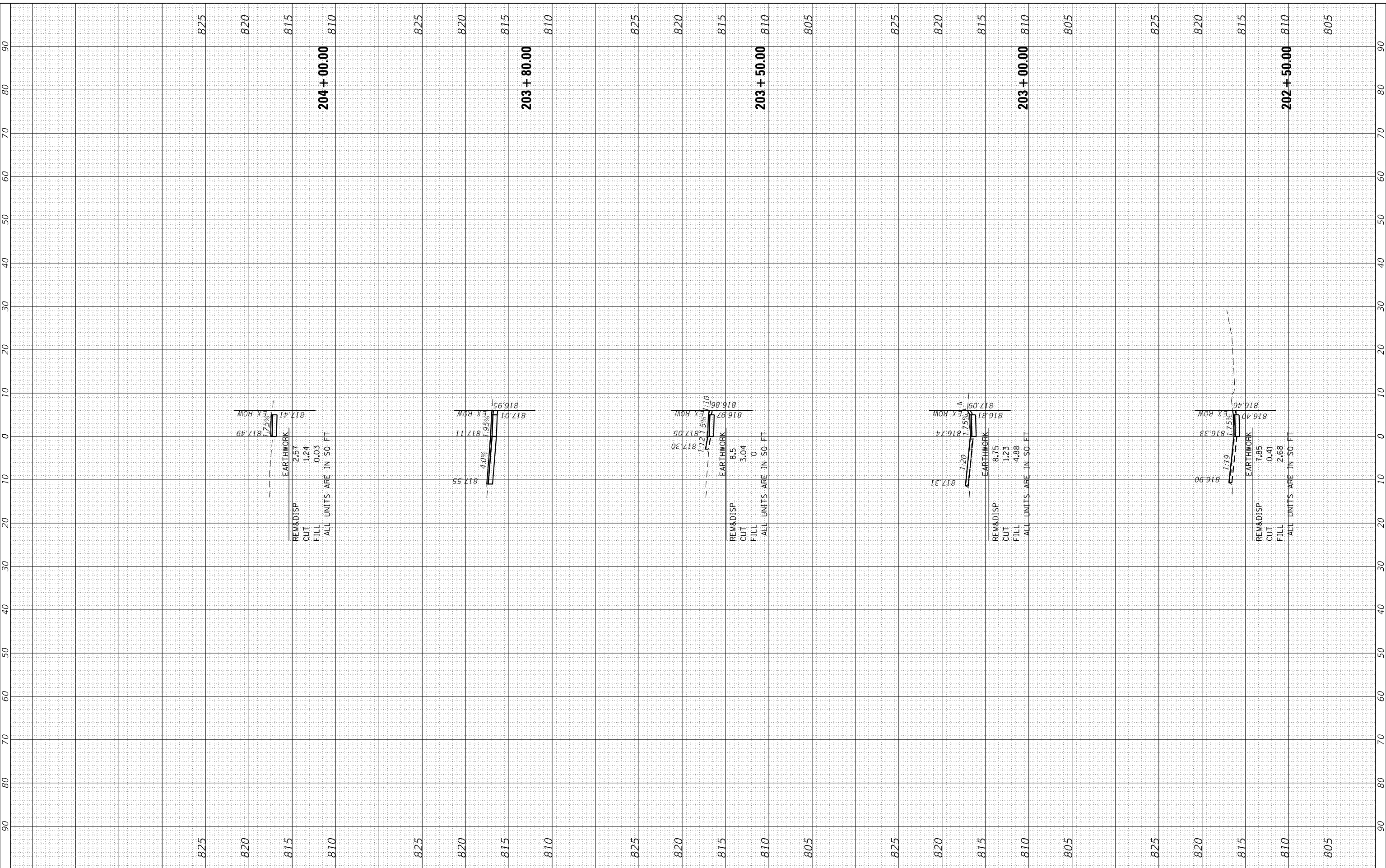
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F.A.P. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	33
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61G78	

FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

HRG PROJECT No: 17094  
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 PLOT DRIVER: il\_def\_bwplc7c.g  
 PEN TABLE: plottabtbl



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 Illinois Professional Design Firm  
 #184-001322

USER NAME - dstencz	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE -	CHECKED -	REVISED - XX/XX/XXXX
PLOT DATE - 11/2/2020	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: 10H:5V	SHEET 2 OF 7 SHEETS	STA. 202+50.00 TO STA. 204+00.00
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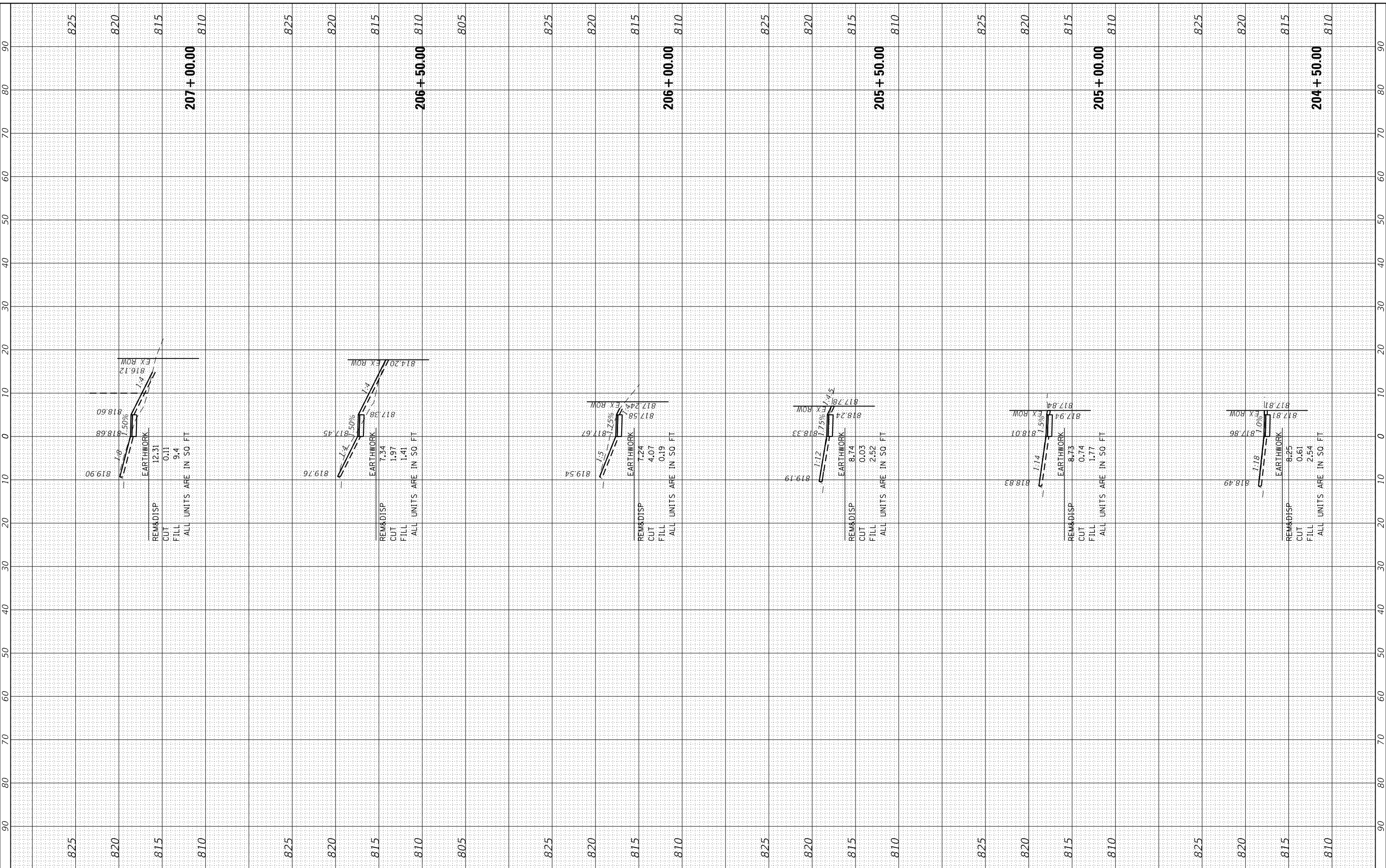
**US ROUTE 20 (LAKE STREET)  
 CROSS SECTIONS**

F.A.P. RTE. 345	SECTION NO. 13-00056-00-SW	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 34
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 61G78	

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

HRG PROJECT No: 17094  
 FILE NAME: 17094\_001.dgn  
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 PEN TABLE: plot.tbl



DESIGNED -	JJS	REVISED -	XX/XX/XXXX
DRAWN -	DMS	REVISED -	XX/XX/XXXX
CHECKED -		REVISED -	XX/XX/XXXX
DATE -		REVISED -	XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)  
 CROSS SECTIONS**

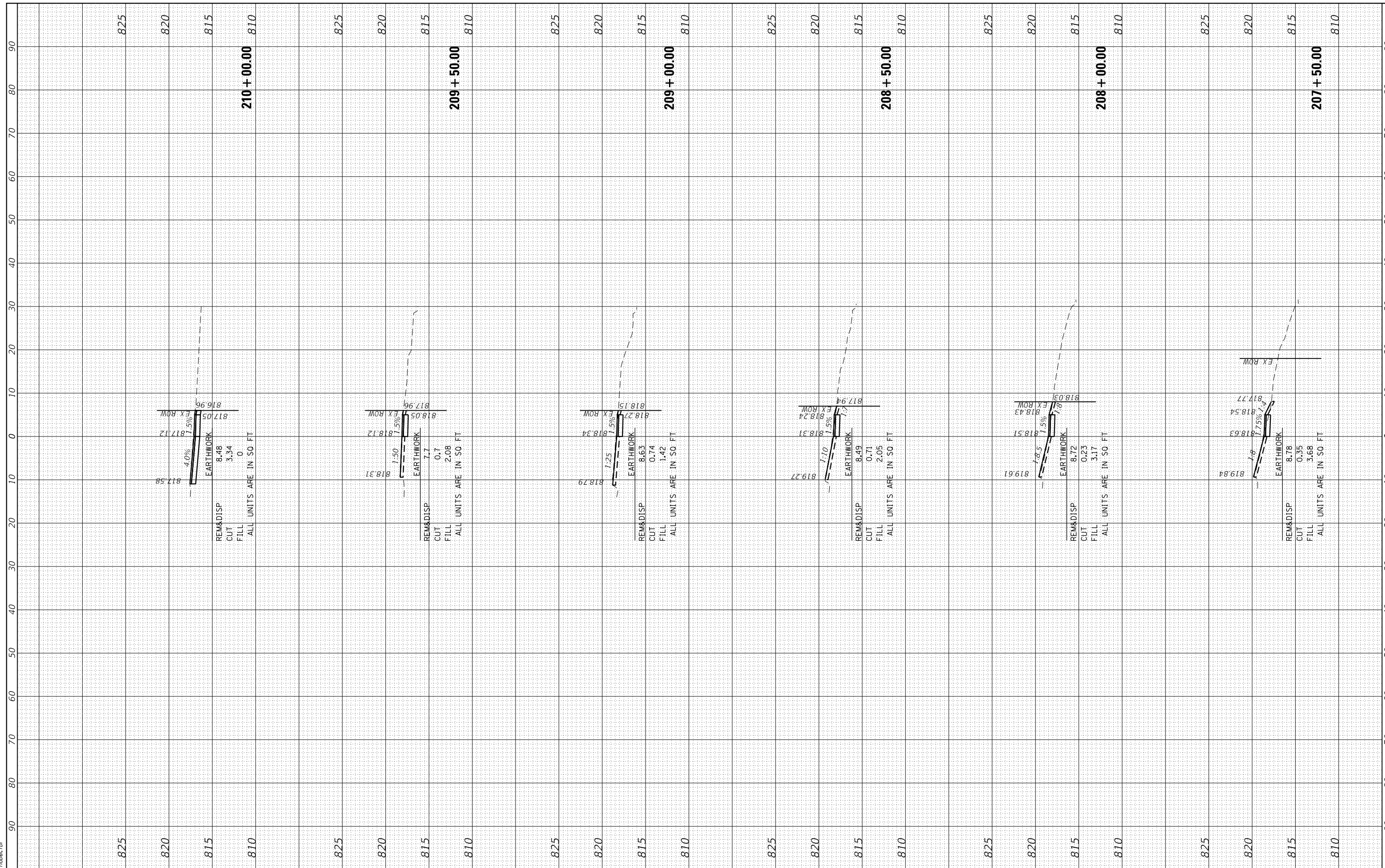
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F.A.P. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
345	13-00056-00-SW	COOK	39	35
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61G78	

FINAL SURVEY NO.	
SURVEY PLOTTED	
TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	
BY	
DATE	

ORIGINAL SURVEY NO.	
SURVEY PLOTTED	
TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	
BY	
DATE	

HRG PROJECT No: 17094  
 FILE NAME: 17094.ctb  
 PLOT DRIVER: il\_def\_bwp1r1c1g  
 PEN TABLE: p101tbl1.tbl



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 Illinois Professional Design Firm  
 #184-001322

USER NAME - dstancz	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE -	CHECKED -	REVISED - XX/XX/XXXX
PLOT DATE - 11/2/2020	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)  
 CROSS SECTIONS**

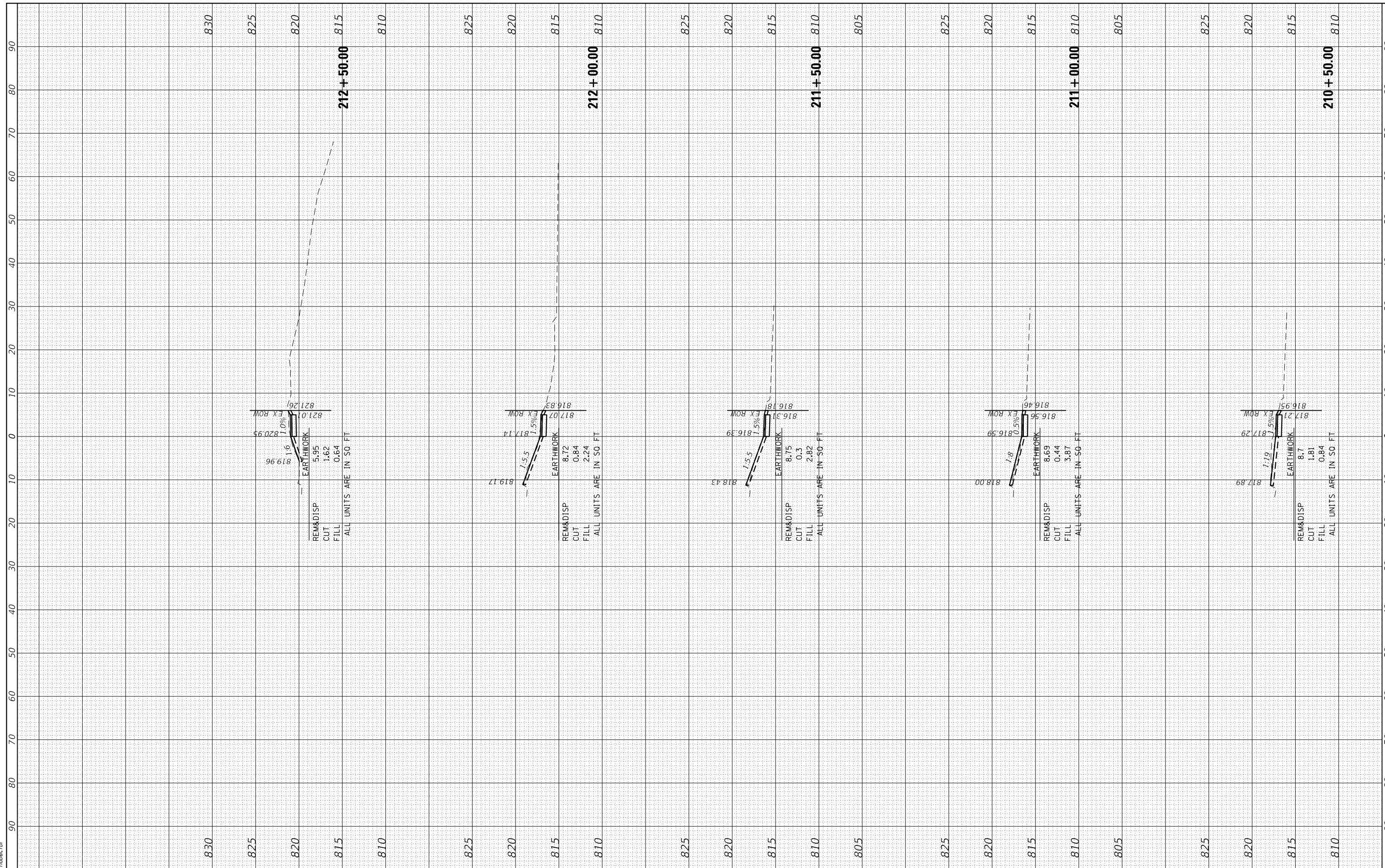
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F.A.P. RTE. 345	SECTION NO. 13-00056-00-SW	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 36
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G78	

FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
BY	
DATE	

ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
BY	
DATE	

HRG PROJECT No: 17094  
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 PLOT DRIVER: j\_lanf\_bmp17c7g  
 PEN TABLE: p1010a1b1.tl



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 Illinois Professional Design Firm  
 #184-001322

USER NAME - dstencz	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE -	CHECKED -	REVISED - XX/XX/XXXX
PLOT DATE - 11/27/2020	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)  
 CROSS SECTIONS**

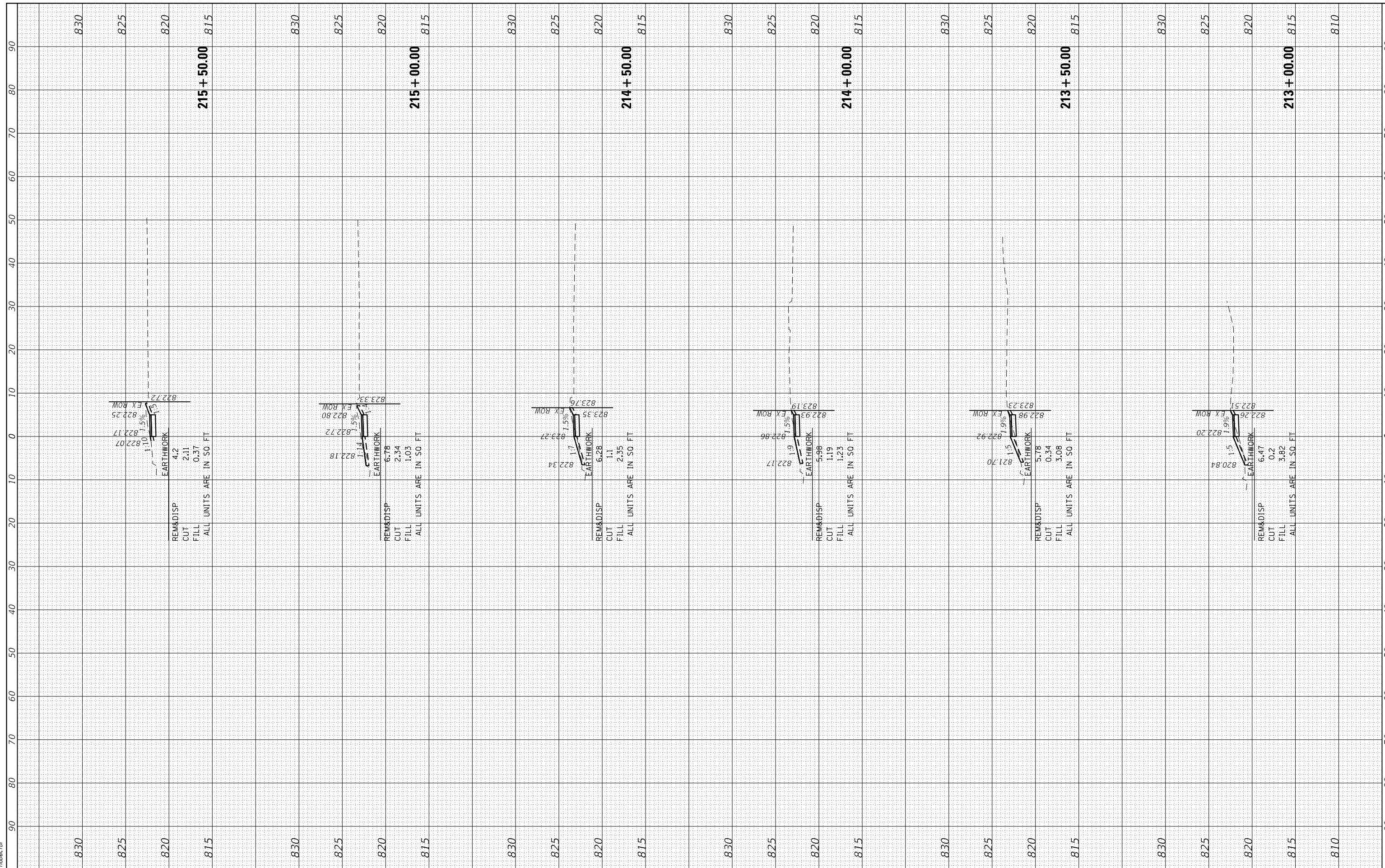
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F.A.P. RTE. 345	SECTION NO. 13-00056-00-SW	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 37
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G78	

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

HRG PROJECT No: 17094  
 FILE NAME: 17094\_001-13-00056-00-SW.dgn  
 PLOT DRIVER: il\_def\_bwinr1c7g  
 PEN TABLE: p101tblen1.tl



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 #184-001322

USER NAME - dstanz	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE -	CHECKED -	REVISED - XX/XX/XXXX
PLOT DATE - 11/2/2020	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)  
 CROSS SECTIONS**

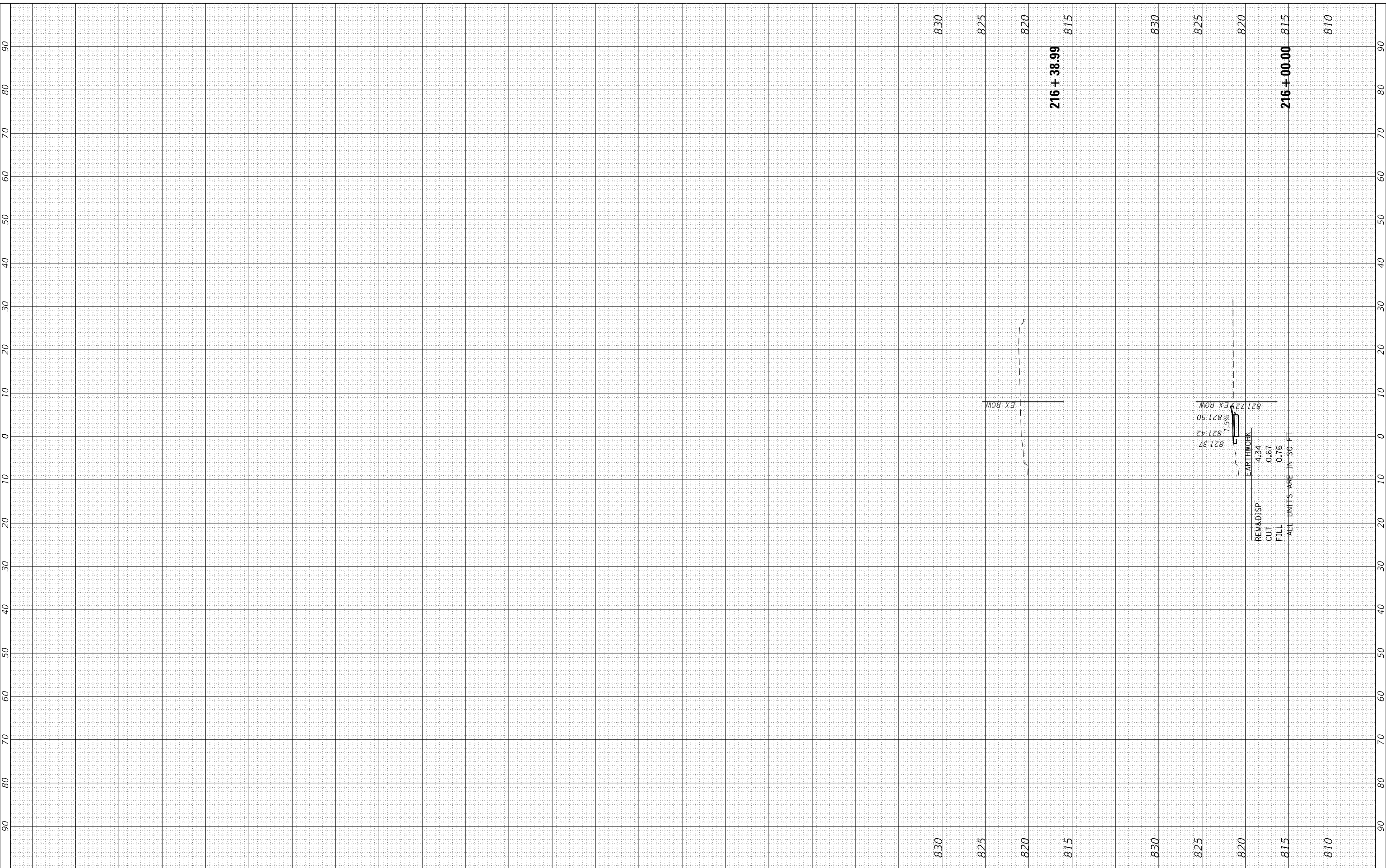
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F.A.P. RTE. 345	SECTION NO. 13-00056-00-SW	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 38
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G78	

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

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 FILE NAME: 17094\_001\_001\_001.dgn  
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 PEN TABLE: p1010a101.tl



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 #184-001322

USER NAME - dstencz	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE -	CHECKED -	REVISED - XX/XX/XXXX
PLOT DATE - 11/2/2020	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>US ROUTE 20 (LAKE STREET) CROSS SECTIONS</b>		
SCALE: 10H:5V	SHEET 7 OF 7 SHEETS	STA. 216+00.00 TO STA. 216+38.99

F.A.P. RTE. 345	SECTION NO. 13-00056-00-SW	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 39
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 61G78	