

04-23-2021 LETTING ITEM 016

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  
**KENSINGTON ROAD RESURFACING  
 &  
 MULTI-USE PATH**

PROJECT NO. 8H89(837)  
 SECTION NO. 17-00209-00-RS  
**VILLAGE OF ARLINGTON HEIGHTS**  
 COOK COUNTY  
 JOB NO. C-91-289-91

FAU. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	17-00209-00-RS	COOK	45	1
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		



**TRAFFIC DATA**

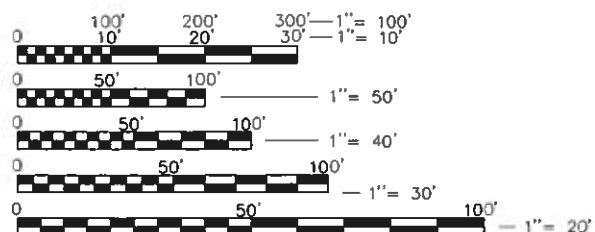
KENSINGTON ROAD 7,750 ADT (2018)

**POSTED SPEED**

KENSINGTON ROAD 30 MPH

**FUNCTIONAL CLASSIFICATION**

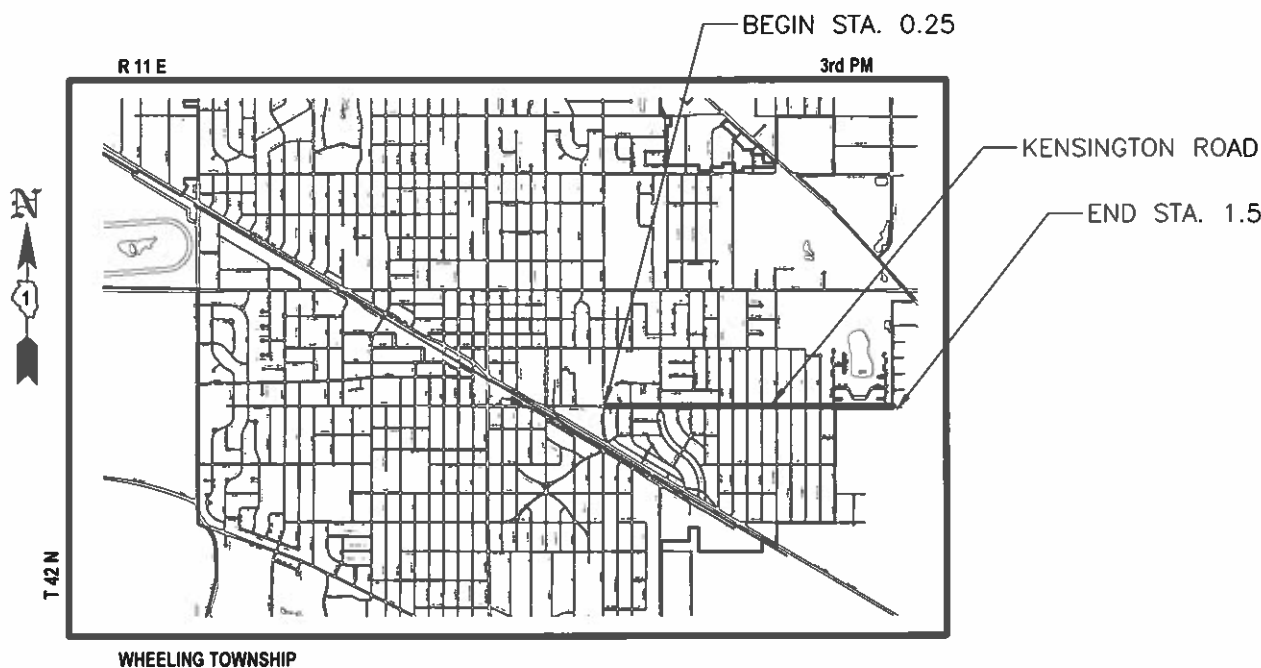
KENSINGTON ROAD MAJOR COLLECTOR



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED 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 EXCAVATION  
 1-800-892-0123  
 OR 811

CONTRACT NO. 61H08



**LOCATION MAP**  
 NOT TO SCALE

GROSS LENGTH OF IMPROVEMENT = 6,584 FEET = 1.25 MILES  
 NET LENGTH OF IMPROVEMENT = 5,280 FEET = 1.25 MILES  
 TOWNSHIP 42 N RANGE 11 E WHEELING TOWNSHIP



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 APPROVED January 15, 2021  
*Michael L. Ramos*  
 VILLAGE ENGINEER  
 VILLAGE OF ARLINGTON HEIGHTS, ILLINOIS

PROFESSIONAL ENGINEER'S SIGN & SEAL  
*Nanci Julius*  
 NANCY JULIUS, P.E.  
 CIVIL ENGINEER  
 VILLAGE OF ARLINGTON HEIGHTS, ILLINOIS  
 LICENSE EXPIRES NOVEMBER 30, 2021

PASSED FEB 22, 2021  
*Chris...*  
 DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS  
 RELEASING FOR BID  
 BASED ON LIMITED REVIEW February 22, 2021  
*Julius*  
 REGIONAL ENGINEER

**PRINTED BY THE AUTHORITY  
 OF THE STATE OF ILLINOIS**

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



# GENERAL NOTES

PLAN	SURVEYED SCALES CHECKED BY: _____ DATE: _____	BY	DATE

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (HEREIN REFERRED TO AS STANDARD SPECIFICATIONS), ADOPTED JANUARY 1, 2016; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2021; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS" (IMUTCD); THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS; THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS"; AND THE "MANUAL OF TEST PROCEDURES FOR MATERIALS".

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 NOTIFY THE ENGINEER (847) 368-5250 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK.

THE CONTRACTOR SHALL NOTIFY AS NECESSARY, ALL TESTING AGENCIES A MINIMUM OF 24 HOURS IN ADVANCE OF CONSTRUCTION. FAILURE OF THE CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN TESTING COMPANIES BEING UNABLE TO VISIT THE SITE AND PERFORM TESTING WILL CAUSE THE CONTRACTOR TO SUSPEND OPERATIONS TO BE TESTED UNTIL TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS.

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, AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT SOME QUANTITIES ARE GIVEN IN BOTH SUMMARY FORM AND ON THE PLAN SHEETS. CARE SHOULD BE TAKEN TO AVOID DUPLICATION OF QUANTITIES.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

PAY ITEMS IN THE SUMMARY OF QUANTITIES HAVE BEEN ESTIMATED. IF, IN THE ENGINEER'S OPINION, THE WORK IS NOT REQUIRED, THE ITEM WILL BE DEDUCTED FROM THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. PAYMENT WILL BE MADE ONLY FOR THE ACTUAL WORK COMPLETED.

PER SECTION 19-210 OF THE VILLAGE OF ARLINGTON HEIGHTS MUNICIPAL CODE, ADOPTION OF THE STATE OF ILLINOIS POLLUTION CONTROL REGULATIONS, CONSTRUCTION ACTIVITIES MAY OCCUR BETWEEN 7:00AM AND 5:00PM MONDAY THROUGH FRIDAY AND 8:00AM TO 5:00PM ON SATURDAYS. CONSTRUCTION ACTIVITIES ON SUNDAY ARE PROHIBITED. NO WORK WILL BE PERFORMED ON HOLIDAYS OBSERVED IN ILLINOIS. CONSTRUCTION ACTIVITIES ARE IDENTIFIED AS THE OPERATION OF HEAVY EQUIPMENT, INCLUDING BUT NOT LIMITED TO THE WARMING UP OF ANY PIECE OF EQUIPMENT OR TURNING ON ENGINES.

MATERIALS RESULTING FROM THE REMOVAL OF PAVEMENT, DRIVEWAYS, HMA SURFACE, ETC. SHALL BE REMOVED AT THE END OF EACH DAY TO AN APPROVED SITE. IF THE VILLAGE DEEMS IT NECESSARY TO REMOVE SUCH MATERIALS, THE VILLAGE WILL HAVE THE MATERIAL REMOVED.

MATERIAL AND EQUIPMENT MUST BE STORED IN AN AREA APPROVED BY THE ENGINEER.

ADDITIONAL AREAS USED FOR STORAGE MUST BE REVIEWED BY THE ENGINEER PRIOR TO USE. ALL AREAS USED SHALL BE RESTORED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DESTRUCTION OF PUBLIC OR PRIVATE PROPERTY IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 107.20 OF THE "STANDARD SPECIFICATIONS", AND SHALL RESTORE SUCH PROPERTY.

THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE VILLAGE DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR SHALL HAVE THE RESPECTIVE UTILITY COMPANIES FIELD LOCATE ALL THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ALSO VERIFY THE DEPTHS OF THE EXISTING UTILITIES IF NECESSARY, ANY RELOCATION OR LOWERING OF UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS; ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE VILLAGE ENGINEER.

COORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT A PRE-CONSTRUCTION CONFERENCE. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR WILL TAKE ADEQUATE MEASURES TO PREVENT UNDERMINING OF UTILITIES AND SEWERS WHICH ARE STILL IN SERVICE.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS AND CABLE TELEVISION FACILITIES IN ACCORDANCE WITH STATE LAW.

48 HOURS BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT THE ARLINGTON HEIGHTS PUBLIC WORKS DEPARTMENT AT (847) 368-5800.

EMERGENCY VEHICLE ACCESS MUST BE MAINTAINED DURING CONSTRUCTION.

WHEN DIRECTED BY THE ENGINEER, SUPPLEMENTAL WATERING SHALL BE APPLIED TO ALL SODDED AREAS PRIOR TO FINAL ACCEPTANCE AT A RATE SPECIFIED BY THE ENGINEER AND IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS" AND SPECIAL PROVISIONS.

ALL EXISTING GRASS AREAS DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE SEEDED OR SODDED AS SHOWN ON PLANS OR DIRECTED BY THE ENGINEER. FOR SEDIMENT AND EROSION CONTROL PURPOSES, ALL AREAS MUST BE STABILIZED WITH SOD WITHIN 14 DAYS OF LAST DISTURBANCE.

RUBBER TIRE EQUIPMENT SHALL BE USED DURING TOPSOIL AND SODDING INSTALLATION. CARE SHALL BE TAKEN TO PROTECT THE CONDITION ANY NEW AND EXISTING CONCRETE AND ASPHALT SURFACES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ANY MARKINGS MADE BY EQUIPMENT USED DURING THESE OPERATIONS INCLUDING BUT NOT LIMITED TO RUBBER MARKS AND HEAVY DIRT.

EXCAVATION, SURPLUS, AND WASTE MATERIALS RESULTING FROM SODDING OPERATIONS SHALL BE IMMEDIATELY LOADED AND HAULED AWAY AND SHALL NOT BE STORED IN THE STREET OR PARKWAY AREA.

EXISTING PAVEMENT, DRIVEWAY AND SIDEWALK TO REMAIN SHALL BE SAWCUT FULL DEPTH TO PROVIDE A NEAT VERTICAL FACE BETWEEN THE PROPOSED AND EXISTING FACES.

ALL CURB SHALL BE DEPRESSED AT DRIVEWAYS.

THE CONTRACTOR SHALL EXAMINE ALL PLANS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK AND INFORM HIMSELF FULLY WITH THE WORK INVOLVED, GENERAL AND LOCAL CONDITIONS, ALL FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS AND ALL PERTINENT ITEMS WHICH MAY AFFECT THE COST AND TIME OF COMPLETION OF THIS PROJECT BEFORE SUBMITTING A PROPOSAL.

THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO CONTROL EROSION THROUGHOUT THE ENTIRE PROJECT. REFERENCE SHOULD BE MADE TO "PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL" PUBLISHED BY THE NORTHEASTERN ILLINOIS SOIL EROSION AND SEDIMENTATION CONTROL STEERING COMMITTEE, FOR APPROPRIATE EROSION CONTROL MEASURES.

AT A MINIMUM, STRUCTURES SERVICING THE COLLECTION OF STORM WATER SHALL BE PROTECTED FROM THE INTRODUCTION OF SEDIMENT AND OTHER DEBRIS THROUGH THE USE OF INLET FILTER BASKETS DURING CONSTRUCTION OPERATIONS IN ACCORDANCE WITH 280 OF THE STANDARD SPECIFICATIONS.

IF DEWATERING SERVICES ARE USE, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FOR EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (e.g. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).

THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO CONTROL DUST AT ALL TIMES ALONG THE ENTIRE PROJECT BY MEANS SUCH AS MECHANICAL SWEEPER, WATER TRUCK, OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL CAREFULLY REMOVE AND RE-ERECT ALL SIGNS, POLES AND MAIL BOXES INTERFERING WITH CONSTRUCTION ACTIVITIES. THIS WORK WILL BE INCIDENTAL TO THE CONTRACT WHICH SHALL INCLUDE ALL MATERIAL, LABOR AND EQUIPMENT NEEDED TO COMPLETE THESE OPERATIONS SPECIFIED HEREIN. ANY SIGNS NOT RE-ERECTED SHALL REMAIN PROPERTY OF THE VILLAGE OF ARLINGTON HEIGHTS.

THE CONTRACTOR SHALL PROTECT ALL SIDEWALKS AND CURB AND GUTTER FROM DAMAGE AND VANDALISM. ANY PROPOSED OR EXISTING SIDEWALK AND CURB AND GUTTER DAMAGED OR VANDALIZED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.

THE CONTRACTOR SHALL MAINTAIN ALL DRAINAGE FACILITIES DURING CONSTRUCTION AND SHALL REPAIR ANY DRAINAGE FACILITIES DAMAGED DURING CONSTRUCTION.

THE CONTRACTOR SHALL VERIFY THE ELEVATION, LOCATION, AND SIZE OF THE EXISTING SEWERS PRIOR TO ANY WORK TAKING PLACE.

CARE IS TO BE TAKEN AS NOT TO DAMAGE ANY OF THE EXISTING TRAFFIC SIGNAL CONDUITS, FIBER CABLES AND EQUIPMENT. IF ANY OF THE OTHER TRAFFIC SIGNAL CONDUITS, CABLES AND/OR EQUIPMENT IS DAMAGED, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE THE CONDUITS, CABLES AND/OR EQUIPMENT.

UTILITY SERVICES TO RESIDENTS WHICH ARE INTERRUPTED BY CONSTRUCTION SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR SO THAT NO SERVICE IS INTERRUPTED FOR MORE THAN FOUR (4) HOURS. IF TEMPORARY SERVICE IS REQUIRED, THE EXPENSE FOR SAME SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PROFILE	SURVEYED SCALES CHECKED BY: _____ DATE: _____	BY	DATE

# COMMITMENTS

1. MAINTAIN ACCESS FOR THE ALLEY LOCATED AT STATION 12+60, RT.
2. DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS OF DRIVEWAYS AFFECTED A MINIMUM 48 HOURS PRIOR TO ANY WORK.
3. THE CONTRACTOR SHALL NOTIFY THE VILLAGE'S MATERIAL TESTING CONSULTANT, CONSTRUCTION GEOTECHNICAL MATERIALS TESTING, INC. BY 3 PM THE DAY BEFORE FOR ALL CONCRETE AND BITUMINOUS PAVING OPERATIONS.
4. THE CONTRACTOR SHALL NOTIFY THE VILLAGE NO LATER THAN 12:00 PM ON FRIDAY IF CONSTRUCTION ACTIVITIES WILL TAKE PLACE ON SATURDAY.

T:\1 CAD - dwg\2021\Kensington Road\Veg\

FILE NAME =	USER NAME = chomuth	DESIGNED -- NJ	REVISED --	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES / BENCHMARKS</b>	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2021 KENSINGTON GENERAL NOTES.dwg	LAYOUT NAME = GeneralNotes	DRAWN -- CH	REVISED --				17-00209-00-RS	COOK	45	3
	PLOT SCALE = 20.00' / IN.	CHECKED -- MP	REVISED --							CONTRACT NO. 61H08
	PLOT DATE = Feb 11, 2021-12:02pm	DATE -- 11-03-2020	REVISED --			SCALE: VERT. N/A	SHEET NO. 3 OF 45 SHEETS	FED. ROAD DIST NO. 1 ILLINOIS	FED. AID PROJECT	

PLAN	DATE	BY
	REVISIONS	CHECKED
NOTE BOOK	NO.	STRUCTURE NOTATIONS CHYD

PROFILE	DATE	BY
	REVISIONS	CHECKED
NOTE BOOK	NO.	STRUCTURE NOTATIONS CHYD

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE
				75% FED / 25% LPA
				ROADWAY
				0005
				URBAN
Δ 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	885	885
20200100	EARTH EXCAVATION	CU YD	650	650
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1500	1500
25000110	SEEDING, CLASS 1A	ACRE	0.25	0.25
25200110	SODDING, SALT TOLERANT	SQ YD	400	400
25200200	SUPPLEMENTAL WATERING	UNIT	1	1
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	1070	1070
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	17215	17215
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	405	405
40600990	TEMPORARY RAMP	SQ YD	405	405
40602978	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50	TON	2175	2175
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	2175	2175
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	200	200
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	50700	50700
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	3450	3450
42400800	DETECTABLE WARNINGS	SQ FT	824	824
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	25500	25500
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	850	850

Δ SPECIALTY ITEMS

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FILE NAME = 2021 KENSINGTON QUANTITIES & EARTHWORK.dwg	USER NAME = chomuth	DESIGNED - NJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LAYOUT NAME = SUMMARY 1	DRAWN - CH	REVISIONS -	17-00209-00-RS			COOK	45	4		
PLOT SCALE = 20.00' / IN.	CHECKED -	REVISIONS -	CONTRACT NO. 61108							
PLOT DATE = Feb 11, 2021-12:02pm	DATE - 11-03-2020	REVISIONS -	FED ROAD DIST NO. 1   ILLINOIS FED. AID PROJECT							
SCALE: VERT. N/A SHEET NO. 4 OF 45 SHEETS										

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	BY		
	DATE		
NOTE BOOK	NO.		
STRUCTURE	NOTATNS	CHRD	

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	BY		
	DATE		
NOTE BOOK	NO.		
STRUCTURE	NOTATNS	CHRD	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE
				75% FED / 25% LPA
				ROADWAY
				0005
				URBAN
44000600	SIDEWALK REMOVAL	SQ FT	46300	46300
44201341	CLASS C PATCHES, TYPE II, 9 INCH	SQ YD	11	11
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	200	200
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	2	2
60207115	CATCH BASINS, TYPE C, TYPE 3V FRAME AND GRATE	EACH	1	1
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	4	4
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	17	17
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	30	30
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	54	54
60404300	FRAMES AND GRATES, TYPE 3	EACH	3	3
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	2	2
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	19	19
60500050	REMOVING CATCH BASINS	EACH	3	3
67100100	MOBILIZATION	L SUM	1	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	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

△ SPECIALTY ITEMS

FILE NAME = 2021 KENSINGTON QUANTITIES & EARTHWORK.dwg

USER NAME = chamuth	DESIGNED - NJ	REVISED -
LAYOUT NAME = SUMMARY 2	DRAWN - CH	REVISED -
PLOT SCALE = 20.00' / IN.	CHECKED -	REVISED -
PLOT DATE = Feb 11, 2021-12:02pm	DATE - 11-03-2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: VERT. N/A SHEET NO. 5 OF 45 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00209-00-RS	COOK	45	5
CONTRACT NO. 6108			FED. AID PROJECT	

PLAN	DATE	BY
	REVISIONS	
NO.	STRUCTURE	NOTATIONS
NO.	STRUCTURE	NOTATIONS

PROFILE	DATE	BY
	REVISIONS	
NO.	STRUCTURE	NOTATIONS
NO.	STRUCTURE	NOTATIONS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE
				75% FED / 25% LPA
				ROADWAY
				0005
				URBAN
70300100	SHORT TERM PAVEMENT MARKING	FOOT	13000	13000
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ.FT	1200	1200
△ 72000100	SIGN PANEL - TYPE 1	SQ.FT	37	37
△ 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ.FT	1141	1141
△ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	11110	11110
△ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1600	1600
△ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1225	1225
△ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	300	300
△ 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	6	6
△ 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1
△ 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	360	360
△ 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8	8
△ 87900200	DRILL EXISTING HANDHOLE	EACH	2	2
△ 88600100	DETECTOR LOOP, TYPE I	FOOT	970	970
△ 88800100	PEDESTRIAN PUSH-BUTTON	EACH	4	4
△ 89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	2	2
△ 89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	33	33
△ 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2	2

△ SPECIALTY ITEMS

FILE NAME = 2021 KENNINGTON QUANTITIES & EARTHWORK.dwg

USER NAME = chomuth	DESIGNED - NJ	REVISED -
LAYOUT NAME = SUMMARY 3	DRAWN - CH	REVISED -
PLOT SCALE = 20.00' / IN.	CHECKED -	REVISED -
PLOT DATE = Feb 11, 2021-12:02pm	DATE - 11-03-2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: VERT. N/A SHEET NO. 6 OF 45 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00209-00-RS	COOK	45	6
CONTRACT NO. 6108			FED. AID PROJECT	

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PLAN	SURVEYED	DATE
	NOTED	BY
NOTE BOOK	CHECKED	
	BY	
STRUCTURE NOTATIONS CHFD		

PROFILE	SURVEYED	DATE
	NOTED	BY
NOTE BOOK	CHECKED	
	BY	
STRUCTURE NOTATIONS CHFD		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE
				75% FED / 25% LPA
				ROADWAY 0005 URBAN
Z0004510	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	SQ YD	650	650
X0326657	RELOCATE SIGN, SPECIAL	EACH	1	1
X4400220	CURB REMOVAL AND REPLACEMENT	FOOT	3500	3500
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	156	156
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4
Δ Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1	1
# Z0076600	TRAINEES	HOUR	500	500
# Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500

Δ SPECIALTY ITEMS

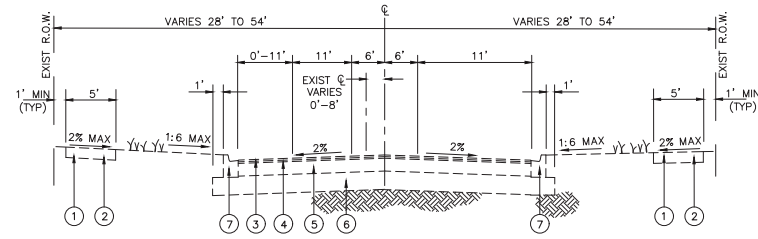
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FILE NAME = 2021 KENSINGTON QUANTITIES & EARTHWORK.dwg	USER NAME = chomuth	DESIGNED - NJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	LAYOUT NAME = SUMMARY 4	DRAWN - CH	REVISED -				17-00209-00-RS	COOK	45	7	
	PLOT SCALE = 20.00' / IN.	CHECKED -	REVISED -			SCALE: VERT. N/A	SHEET NO. 7 OF 45 SHEETS	CONTRACT NO. 6108			
	PLOT DATE = Feb 11, 2021-12:02pm	DATE - 11-03-2020	REVISED -			FED ROAD DIST NO. 1 ILLINOIS FED. AID PROJECT					

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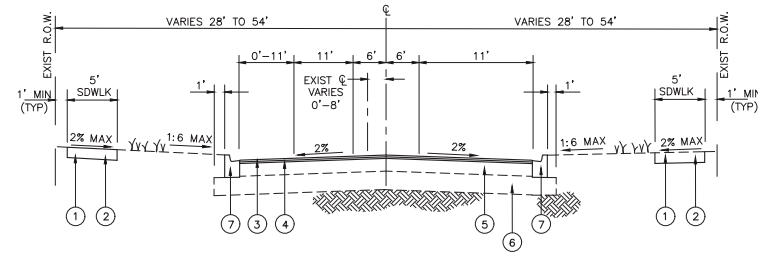
PLAN	DATE
BY	
REVISIONS	
GRADES CHECKED	
STRUCTURE NOTATIONS CHKD	
NOTE BOOK NO.	

PROFILE	DATE
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REVISIONS	
GRADES CHECKED	
STRUCTURE NOTATIONS CHKD	
NOTE BOOK NO.	



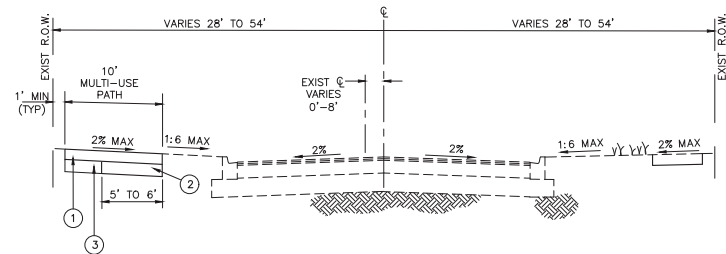
**EXISTING KENSINGTON ROAD  
TYPICAL SECTION**

- ① 5" P.C.C. SIDEWALK
- ② 6" P.C.C. SIDEWALK (ACROSS DRIVEWAYS)
- ③ HOT-MIX ASPHALT SURFACE COURSE, MIX. D, CLASS 1, TYPE 2, 1½"
- ④ HOT-MIX ASPHALT BINDER COURSE, MIX. B, TYPE 2, 1½"
- ⑤ BITUMINOUS BASE COURSE, 8"
- ⑥ AGGREGATE SUBGRADE, 12"
- ⑦ COMBINATION CONCRETE CURB & GUTTER, TYPE B-15.30



**PROPOSED KENSINGTON ROAD  
TYPICAL SECTION  
DRYDEN TO REGENCY DR. WEST**

- ① 5" P.C.C. SIDEWALK (INTERMITTENT REMOVAL & REPLACEMENT)
- ② 6" P.C.C. SIDEWALK ACROSS DRIVEWAYS (INTERMITTENT REMOVAL & REPLACEMENT)
- ③ HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50, 1½"
- ④ HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1½"
- ⑤ HOT MIX ASPHALT BASE COURSE, 8" (EXISTING)
- ⑥ AGGREGATE SUBGRADE, 12" (EXISTING)
- ⑦ COMBINATION CONCRETE CURB & GUTTER, TYPE B-15.30 (INTERMITTENT REMOVAL & REPLACEMENT)



**PROPOSED KENSINGTON ROAD MULTI-USE PATH  
TYPICAL SECTION  
EVANSTON TO FORREST (MT. PROSPECT)**

- ① 5" P.C.C. MULTI-USE PATH (TO BE PAID FOR AS PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH)
- ② SUBBASE GRANULAR MATERIAL, TYPE B.6
- ③ EXISTING SUBBASE GRANULAR MATERIAL, TYPE B.6

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
<b>ROADWAY RESURFACING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50	4% @ 50 Gyr
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	4% @ 50 Gyr
<b>HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"</b>	
HMA SURFACE COURSE, IL-9.5, MIX "D", N50	4% @ 50 Gyr
<b>CLASS D PATCHING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 Gyr

- 1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- 2. THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY SPECIAL PROVISIONS.
- 3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISION

FILE NAME = 2021 KENSINGTON TYPICAL SECTIONS.dwg

USER NAME = *chomuth*  
 LAYOUT NAME = 1  
 PLOT SCALE = 20.00' / IN.  
 PLOT DATE = Feb 11, 2021-12:03pm

DESIGNED - NJ  
 DRAWN - CH  
 CHECKED - -  
 DATE - 11-03-2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: VERT. N/A SHEET NO. 8 OF 45 SHEETS

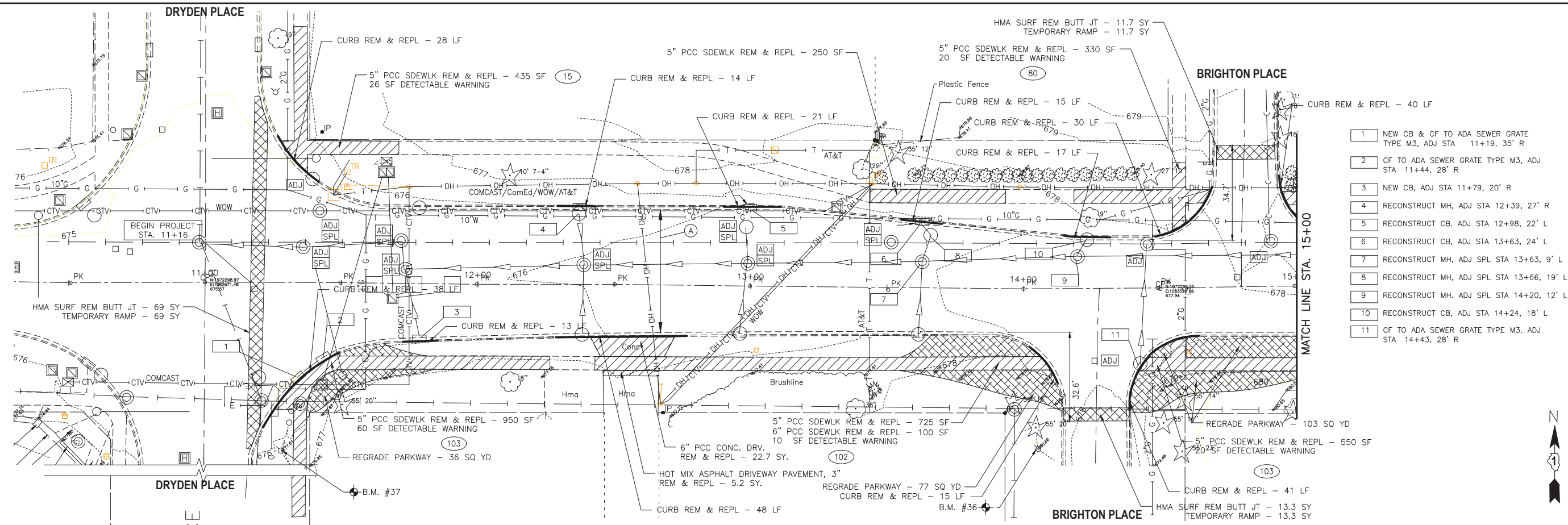
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00209-00-RS	COOK	45	8
FED ROAD DIST NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H08	

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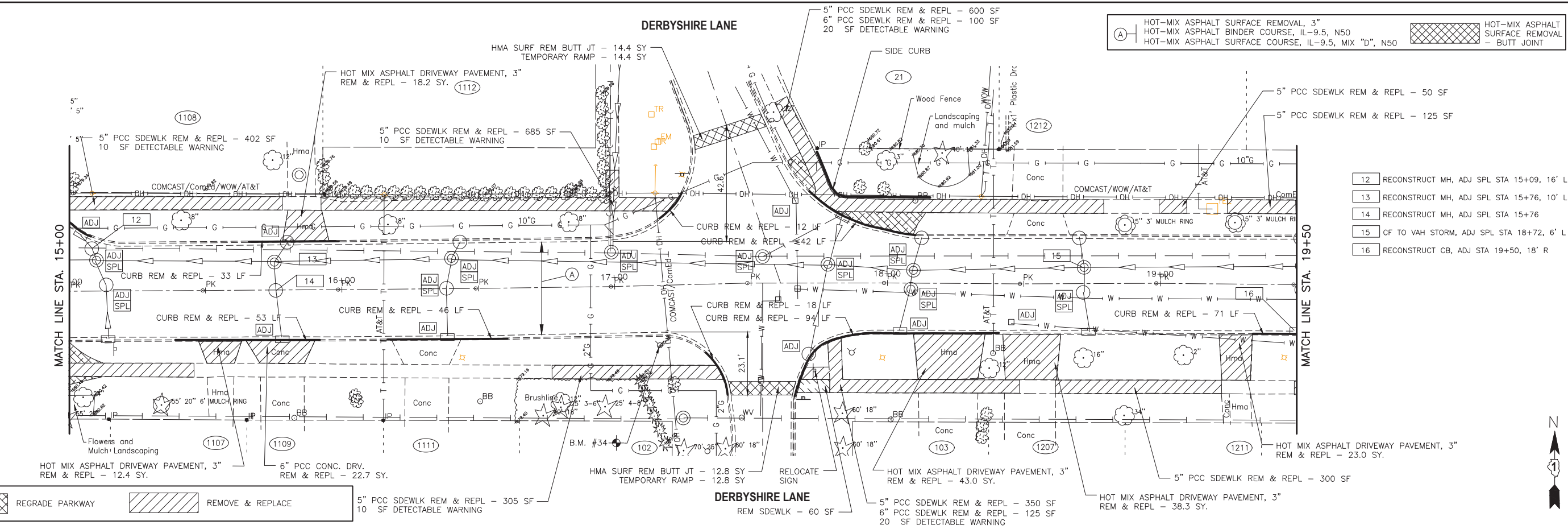


PLAN	DATE	BY
REVISIONS		
GRADES CHECKED		
REVISIONS		
NO.		
STRUCTURE NOTATIONS CHKD		

PROFILE	DATE	BY
REVISIONS		
GRADES CHECKED		
REVISIONS		
NO.		
STRUCTURE NOTATIONS CHKD		



- 1 NEW CB & CF TO ADA SEWER GRATE TYPE M3, ADJ STA 11+19, 35' R
- 2 CF TO ADA SEWER GRATE TYPE M3, ADJ STA 11+44, 28' R
- 3 NEW CB, ADJ STA 11+79, 20' R
- 4 RECONSTRUCT MH, ADJ STA 12+39, 27' R
- 5 RECONSTRUCT CB, ADJ STA 12+98, 22' L
- 6 RECONSTRUCT CB, ADJ STA 13+63, 24' L
- 7 RECONSTRUCT MH, ADJ SPL STA 13+63, 9' L
- 8 RECONSTRUCT MH, ADJ SPL STA 13+66, 19' L
- 9 RECONSTRUCT MH, ADJ SPL STA 14+20, 12' L
- 10 RECONSTRUCT CB, ADJ STA 14+24, 18' L
- 11 CF TO ADA SEWER GRATE TYPE M3, ADJ STA 14+43, 28' R



- 12 RECONSTRUCT MH, ADJ SPL STA 15+09, 16' L
- 13 RECONSTRUCT MH, ADJ SPL STA 15+76, 10' L
- 14 RECONSTRUCT MH, ADJ SPL STA 15+76
- 15 CF TO VAH STORM, ADJ SPL STA 18+72, 6' L
- 16 RECONSTRUCT CB, ADJ STA 19+50, 18' R

REGRADE PARKWAY	REMOVE & REPLACE	5" PCC SDEWLK REM & REPL - 305 SF 10 SF DETECTABLE WARNING
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FILE NAME = 2021 KENSINGTON RD.dwg

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 LAYOUT NAME = 10+50 - 19+50  
 PLOT SCALE = 20.00' / IN.  
 PLOT DATE = Feb 11, 2021-12:04pm

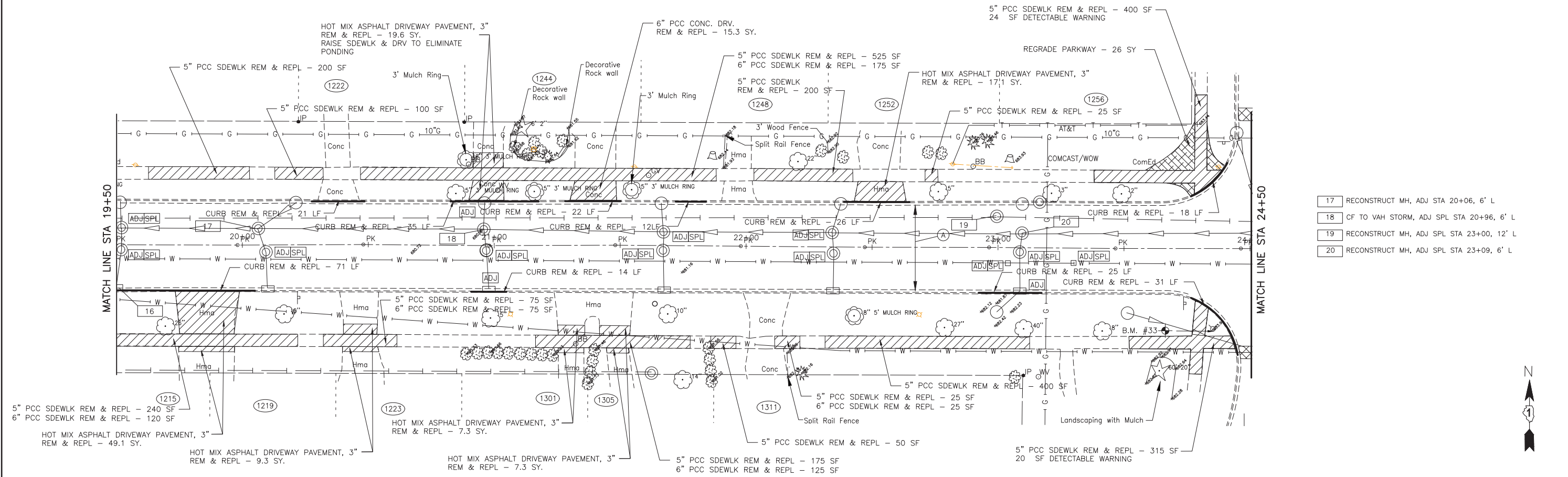
DESIGNED - NJ  
 DRAWN - CH  
 CHECKED - MP  
 DATE - 11-03-2020

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

KENSINGTON ROAD  
 ROADWAY PLAN  
 HORIZ. 1"=20'  
 SCALE: VERT. 1"=5' SHEET NO. 9 OF 45 SHEETS  
 STA. 10+50 TO STA. 19+50

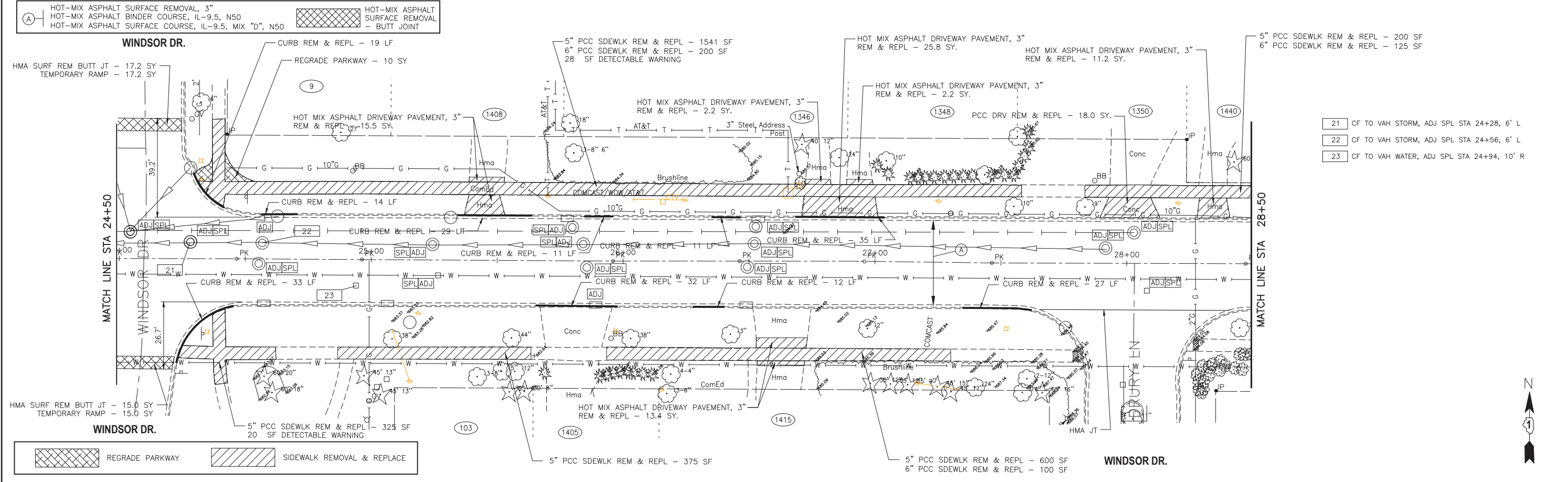
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00209-00-RS	COOK	45	9
CONTRACT NO. 61H08			ILLINOIS FED. AID PROJECT	

PLAN	DATE	BY
REVISIONS		
GRADES CHECKED		
REVISIONS		
NO.		
STRUCTURE NOTATIONS CHNG		



- 17 RECONSTRUCT MH, ADJ STA 20+06, 6' L
- 18 CF TO VAH STORM, ADJ SPL STA 20+96, 6' L
- 19 RECONSTRUCT MH, ADJ SPL STA 23+00, 12' L
- 20 RECONSTRUCT MH, ADJ SPL STA 23+09, 6' L

PROFILE	DATE	BY
REVISIONS		
GRADES CHECKED		
REVISIONS		
NO.		
STRUCTURE NOTATIONS CHNG		



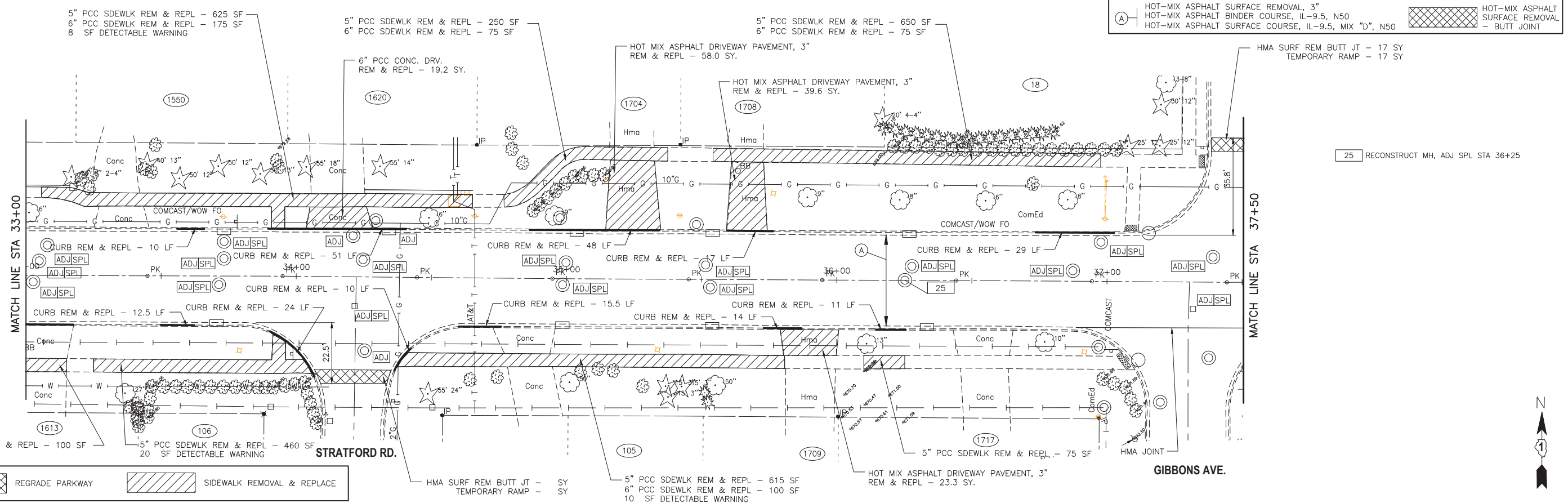
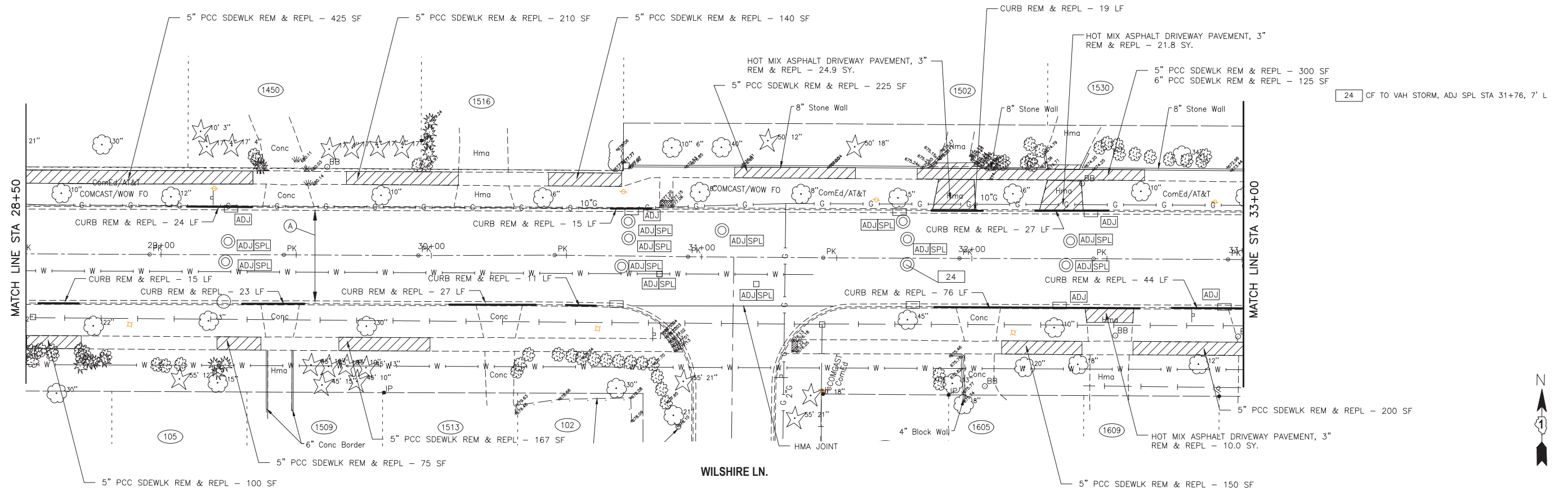
- 21 CF TO VAH STORM, ADJ SPL STA 24+28, 6' L
- 22 CF TO VAH STORM, ADJ SPL STA 24+56, 6' L
- 23 CF TO VAH WATER, ADJ SPL STA 24+94, 10' R

FILE NAME = 2021 KENSINGTON RD.dwg	USER NAME = chomuth	DESIGNED - NJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>KENSINGTON ROAD ROADWAY PLAN</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	LAYOUT NAME = 19+50 - 28+50	DRAWN - CH	REVISED -			17-00209-00-RS	COOK	45	10	
	PLOT SCALE = 20.00' / IN.	CHECKED - MP	REVISED -			CONTRACT NO. 61H08				
	PLOT DATE = Feb 11, 2021-12:05pm	DATE - 11-03-2020	REVISED -			FED ROAD DIST NO. 1 ILLINOIS FED. AID PROJECT				

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PLAN	SURVEYED	BY	DATE
	NOTED		
	GRADES CHECKED		
	REVISIONS		
	NO. _____		
	STRUCTURE NOTATIONS CHKD		

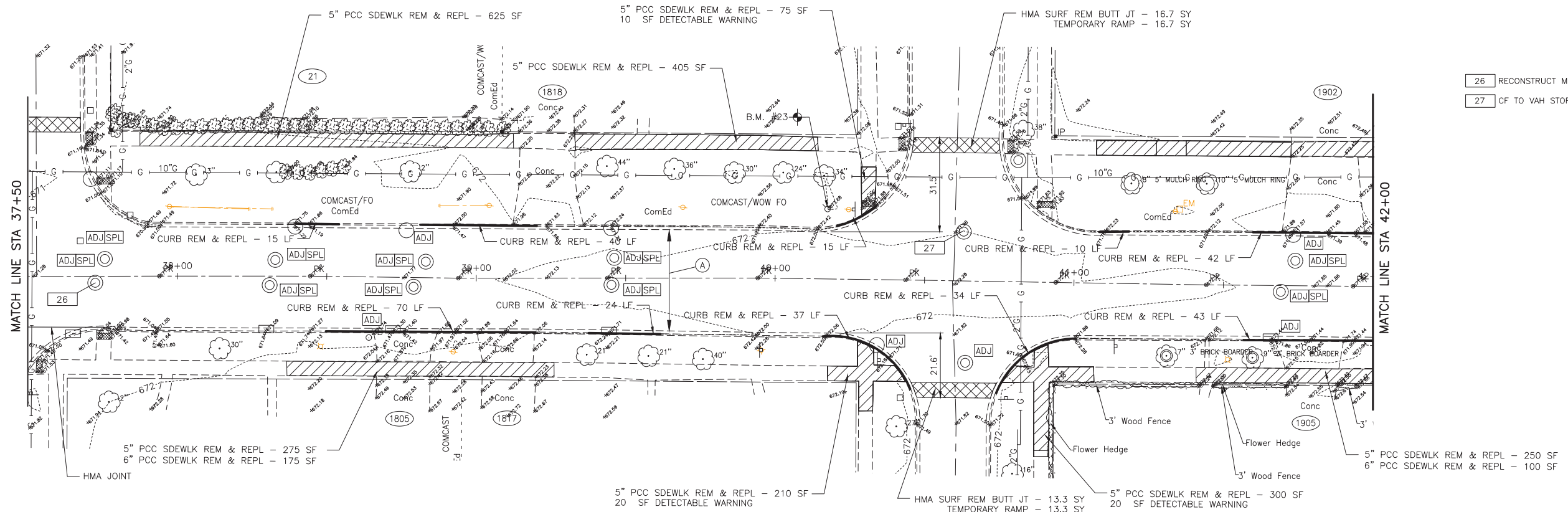
PROFILE	SURVEYED	BY	DATE
	NOTED		
	GRADES CHECKED		
	REVISIONS		
	NO. _____		
	STRUCTURE NOTATIONS CHKD		



FILE NAME = 2021 KENSINGTON RD.dwg	USER NAME = chomuth	DESIGNED - NJ	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>KENSINGTON ROAD</b> <b>ROADWAY PLAN</b>	F.A.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	LAYOUT NAME = 28+50 + 37+50	DRAWN - CH	REVISED -			17-00209-00-RS	COOK	45	11	
	PLOT SCALE = 20.00' / IN.	CHECKED - MP	REVISED -			STA. 28+50 TO STA. 37+50	CONTRACT NO. 61H08			
	PLOT DATE = Feb 11, 2021-12:05pm	DATE - 11-03-2020	REVISED -			FED ROAD DIST NO. 1 ILLINOIS FED. AID PROJECT				

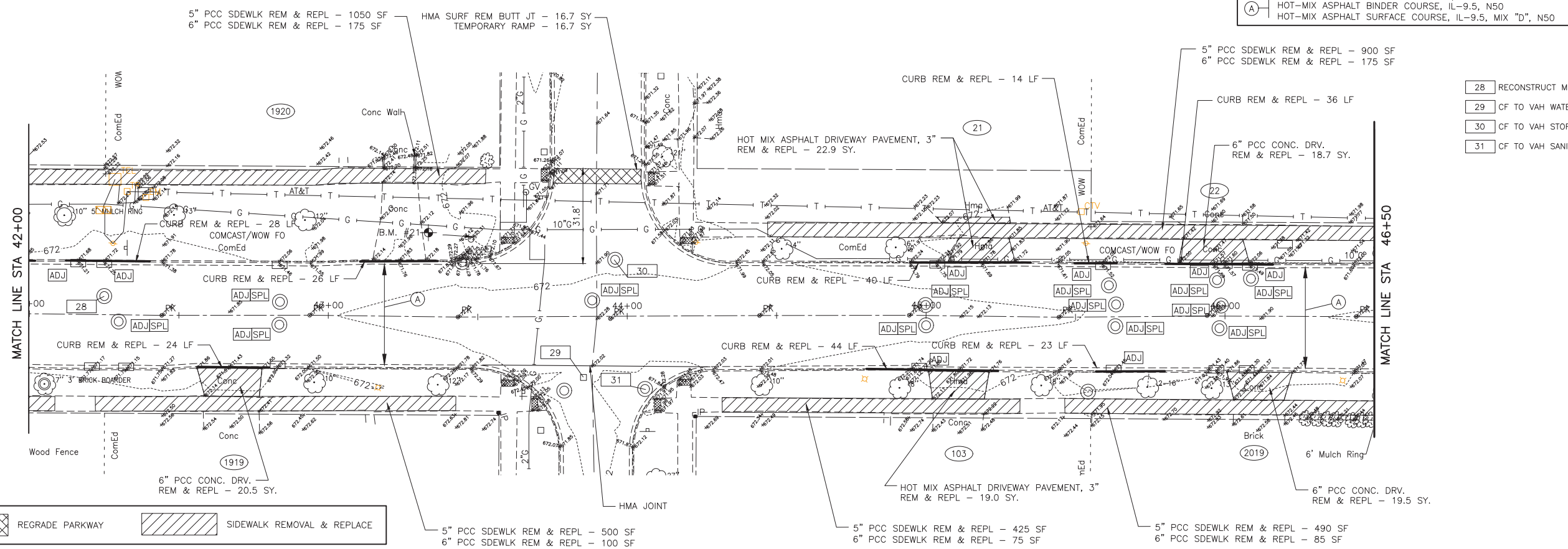
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PLAN	SURVEYED	BY	DATE
	GRADES CHECKED		
	EM. NOTED		
	STRUCTURE NOTATIONS CHKD		
NO.			



- 26 RECONSTRUCT MH, ADJ SPL STA 37+22, 3' R
- 27 CF TO VAH STORM, ADJ SPL STA 40+62, 17' L

PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
	EM. NOTED		
	STRUCTURE NOTATIONS CHKD		
NO.			

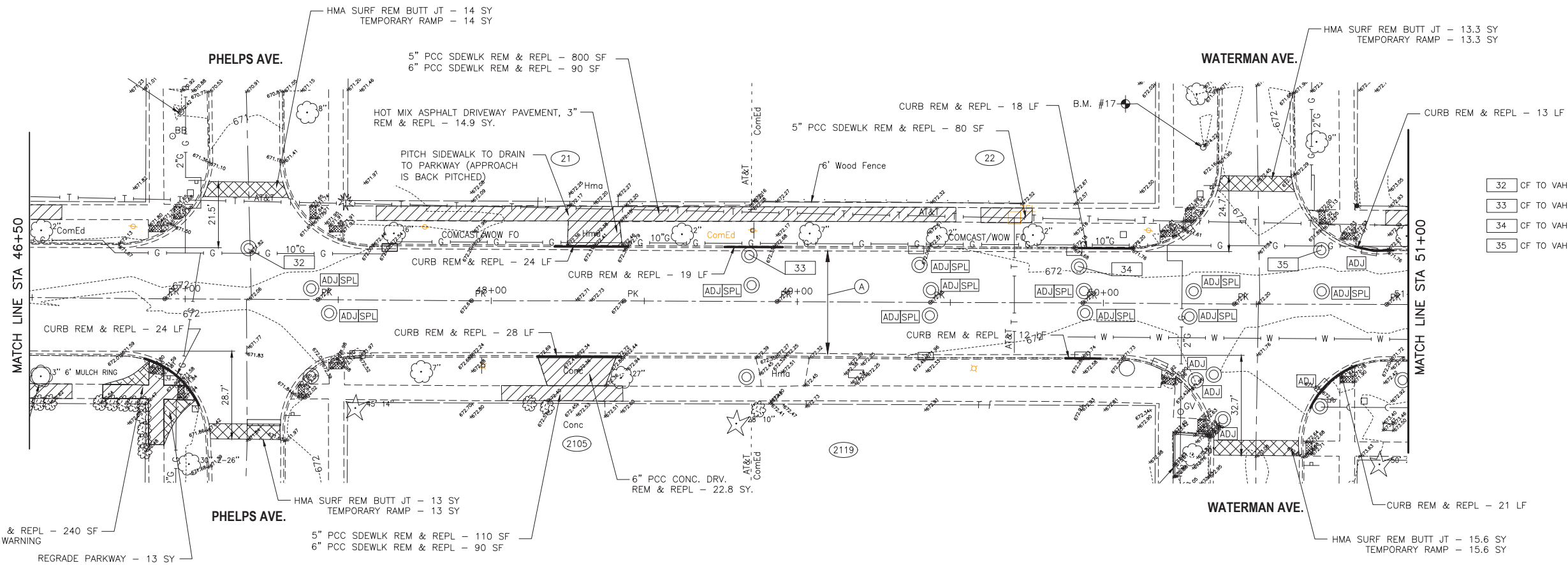


- 28 RECONSTRUCT MH, ADJ SPL STA 42+30, 3' R
- 29 CF TO VAH WATER, STA 43+85, 20' R
- 30 CF TO VAH STORM, ADJ SPL STA 43+96, 20' L
- 31 CF TO VAH SANITARY, STA 44+06, 24' R

REGRADE PARKWAY
  SIDEWALK REMOVAL & REPLACE

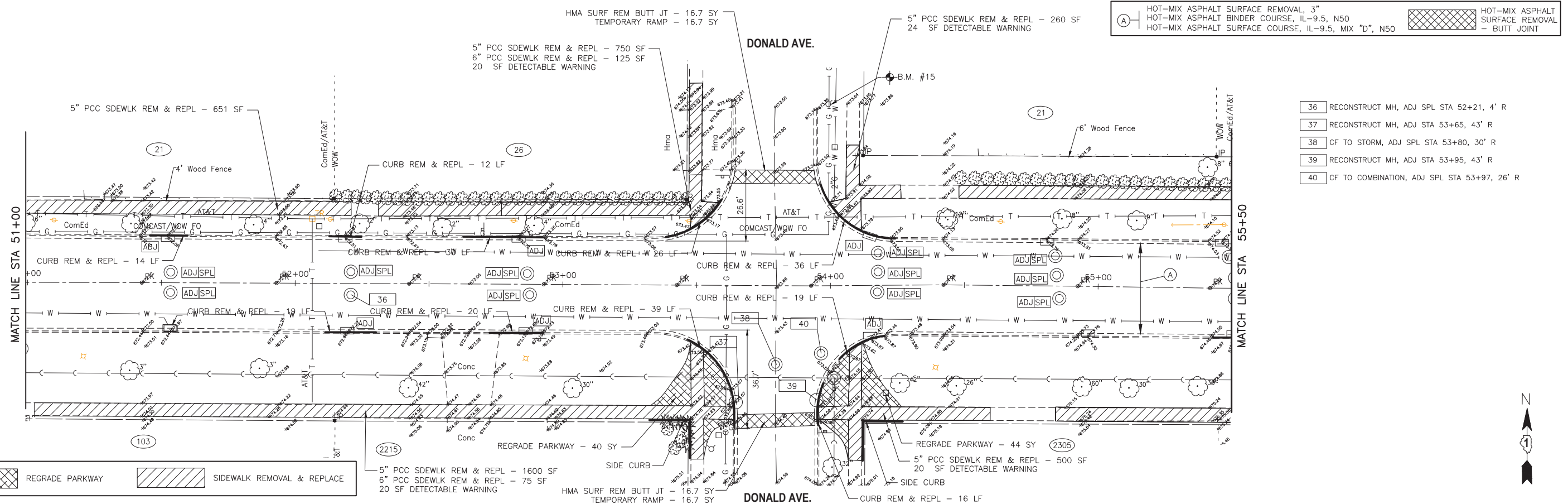
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	LAYOUT NAME = 37+50 - 46+50	DRAWN - CH	REVISED -			17-00209-00-RS	COOK	45	12		
	PLOT SCALE = 20.00' / IN.	CHECKED - MP	REVISED -			HORIZ. 1"=20' SCALE: VERT. 1"=5'		SHEET NO. 12 OF 45 SHEETS		STA. 37+50 TO STA. 46+50	
	PLOT DATE = Feb 11, 2021-12:05pm	DATE - 11-03-2020	REVISED -			CONTRACT NO. 61H08		FED ROAD DIST NO. 1   ILLINOIS FED. AID PROJECT			

PLAN	SURVEYED	BY	DATE
	NOTED		
NOTE BOOK	GRADES CHECKED		
	B.M. NOTED		
NO.	STRUCTURE NOTATIONS CHKD		



- 32 CF TO VAH STORM, ADJ SPL STA 47+21, 17' L
- 33 CF TO VAH STORM, ADJ SPL STA 48+84, 15' L
- 34 CF TO VAH STORM, ADJ SPL STA 49+92, 12' L
- 35 CF TO VAH STORM, ADJ SPL STA 50+70, 18' L

PROFILE	SURVEYED	BY	DATE
	NOTED		
NOTE BOOK	GRADES CHECKED		
	B.M. NOTED		
NO.	STRUCTURE NOTATIONS CHKD		

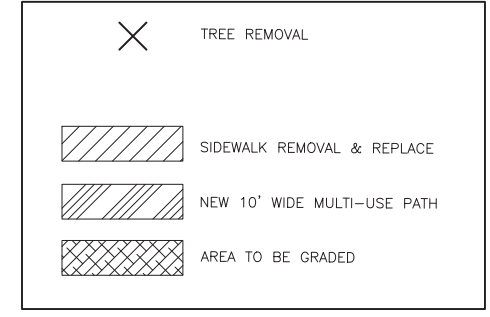
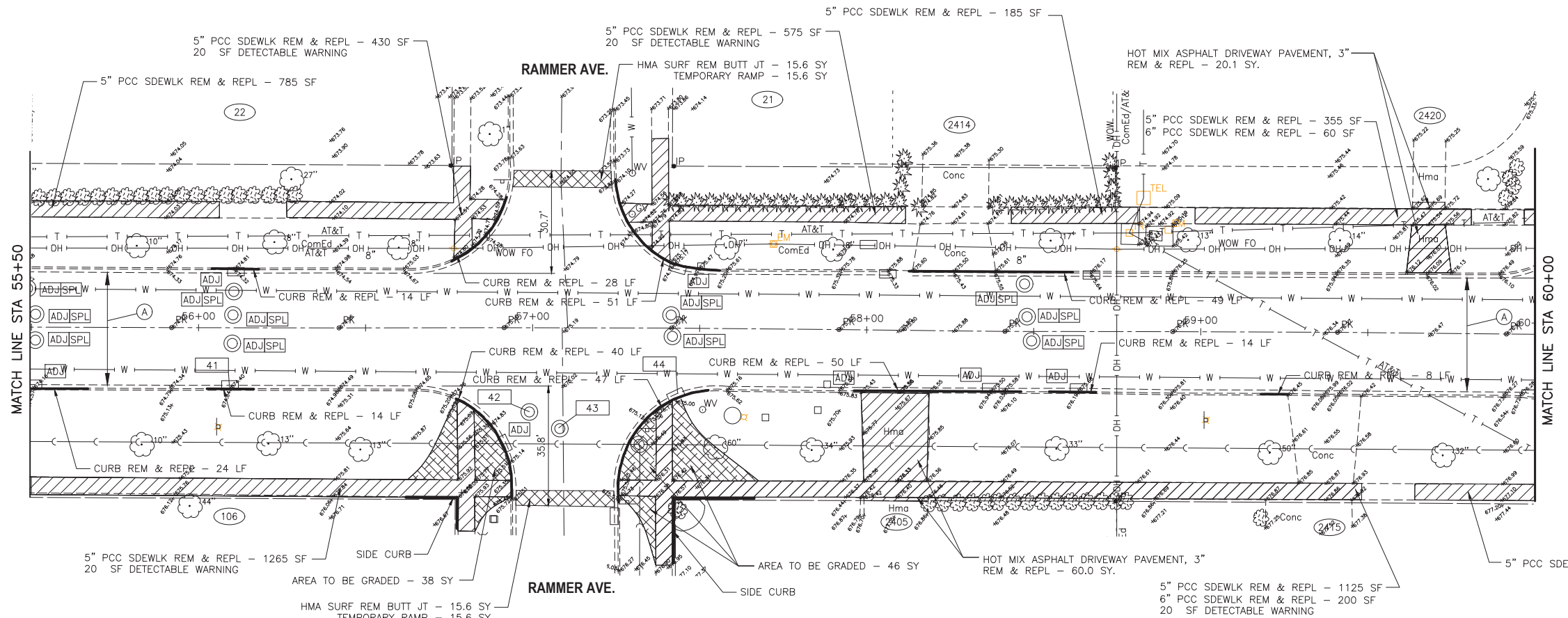


- 36 RECONSTRUCT MH, ADJ STA 52+21, 4' R
- 37 RECONSTRUCT MH, ADJ STA 53+65, 43' R
- 38 CF TO STORM, ADJ SPL STA 53+80, 30' R
- 39 RECONSTRUCT MH, ADJ STA 53+95, 43' R
- 40 CF TO COMBINATION, ADJ SPL STA 53+97, 26' R

T:\1 CAD00.dwg 2/22/21 Kensington Road.dwg

FILE NAME = 2021 KENSINGTON RD.dwg	USER NAME = chomuth	DESIGNED - NJ		<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	HORIZ. 1"=20' SCALE: VERT. 1"=5'	<b>KENSINGTON ROAD ROADWAY PLAN</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	LAYOUT NAME = 46+50 - 55+50	DRAWN - CH	REVISED -			17-00209-00-RS	COOK	45	13			
	PLOT SCALE = 20.00' / IN.	CHECKED - MP	REVISED -			STA. 46+50 TO STA. 55+50				CONTRACT NO. 61H08		
	PLOT DATE = Feb 11, 2021-12:06pm	DATE - 11-03-2020	REVISED -			FED ROAD DIST NO. 1 ILLINOIS FED. AID PROJECT						

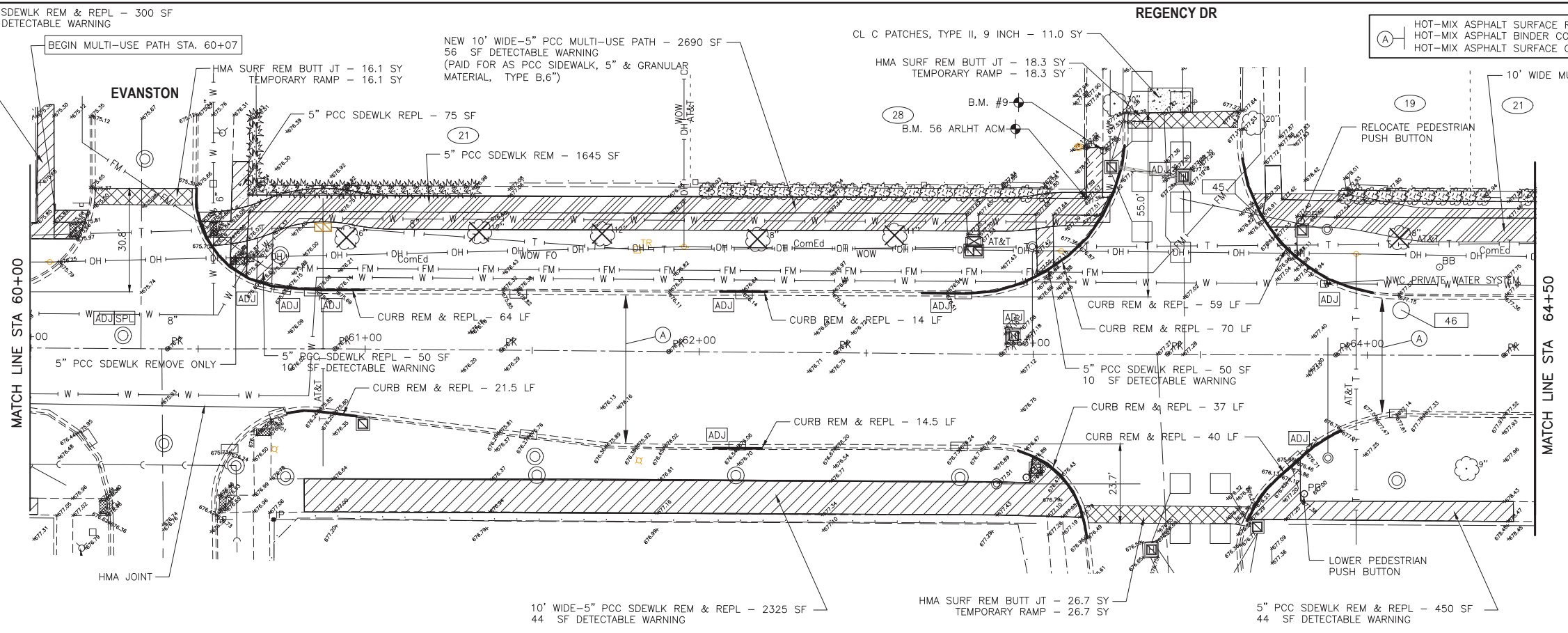
PLAN	SURVEYED	DATE	BY
	NOTED		
	GRADES CHECKED		
	B.M. NOTED		
	STRUCTURE NOTATIONS CHKD		
	NO.		



- 41 RECONSTRUCT CB, ADJ STA 56+10, 18' R
- 42 CF TO VAH COMBINATION, ADJ SPL STA 57+00, 25' R
- 43 CF TO VAH STORM, ADJ SPL STA 57+08, 30' R
- 44 NEW TYPE C CB, ADJ STA 57+43, 20' R



PROFILE	SURVEYED	DATE	BY
	NOTED		
	GRADES CHECKED		
	B.M. NOTED		
	STRUCTURE NOTATIONS CHKD		
	NO.		



- 45 CF TO ADA SEWER GRATE TYPE M3, ADJ STA 63+68, 43' L
- 46 CF TO VAH STORM, ADJ SPL STA 64+10, 13' L



FILE NAME = 2021 KENSINGTON RD.dwg

USER NAME = chomuth	DESIGNED - NJ	REVISED -
LAYOUT NAME = 55+50 - 64+50	DRAWN - CH	REVISED -
PLOT SCALE = 20.00' / IN.	CHECKED - MP	REVISED -
PLOT DATE = Feb 11, 2021-12:06pm	DATE - 11-03-2020	REVISED -

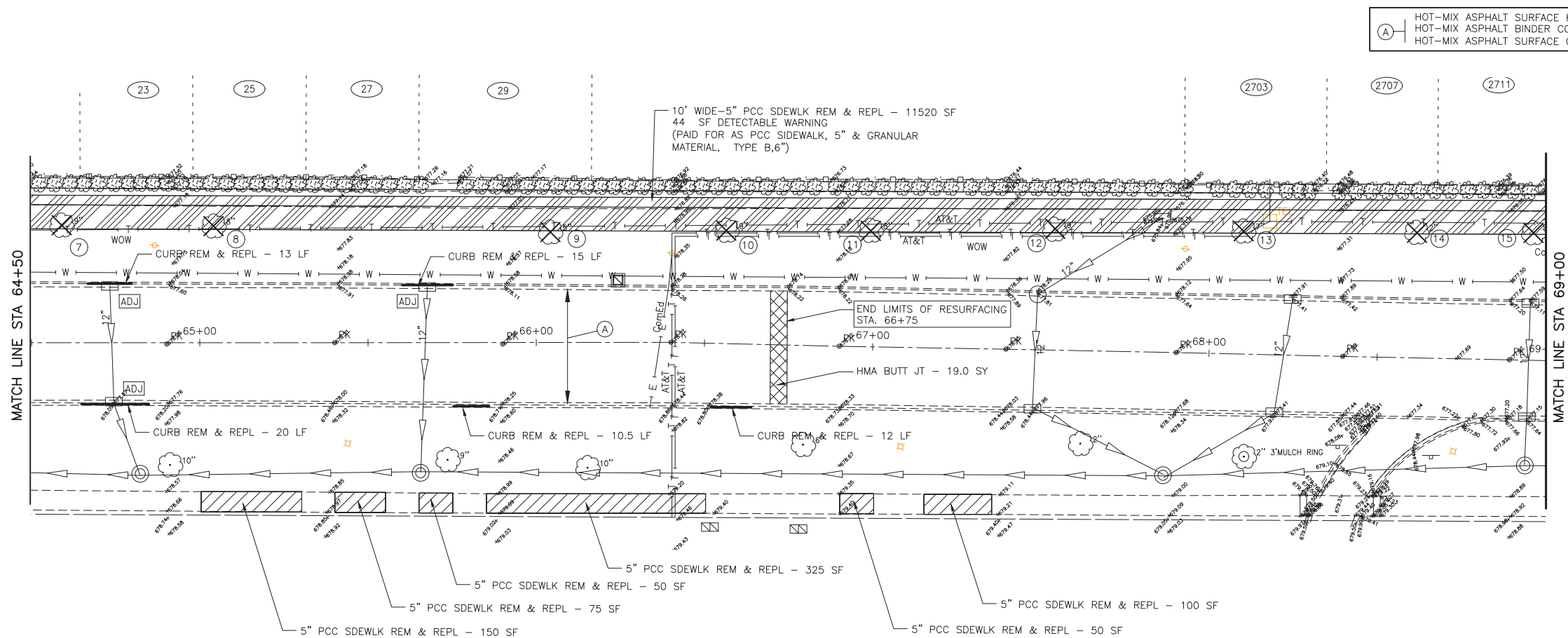
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>KENSINGTON ROAD ROADWAY PLAN</b>	
HORIZ. 1"=20'	SCALE: VERT. 1"=5'
SHEET NO. 14 OF 45 SHEETS	
STA. 55+50 TO STA. 64+50	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00209-00-RS	COOK	45	14
CONTRACT NO. 61H08			ILLINOIS FED. AID PROJECT	

PLAN	DESIGNED	BY	DATE
	CHECKED		
	DATE		
NOTE BOOK	GRADES CHECKED		
	BY		
	DATE		
STRUCTURE NOTATIONS CH'VD	NO.		

PROFILE	DESIGNED	BY	DATE
	CHECKED		
	DATE		
NOTE BOOK	GRADES CHECKED		
	BY		
	DATE		
STRUCTURE NOTATIONS CH'VD	NO.		



(A) HOT-MIX ASPHALT SURFACE REMOVAL, 3"  
HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50  
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50

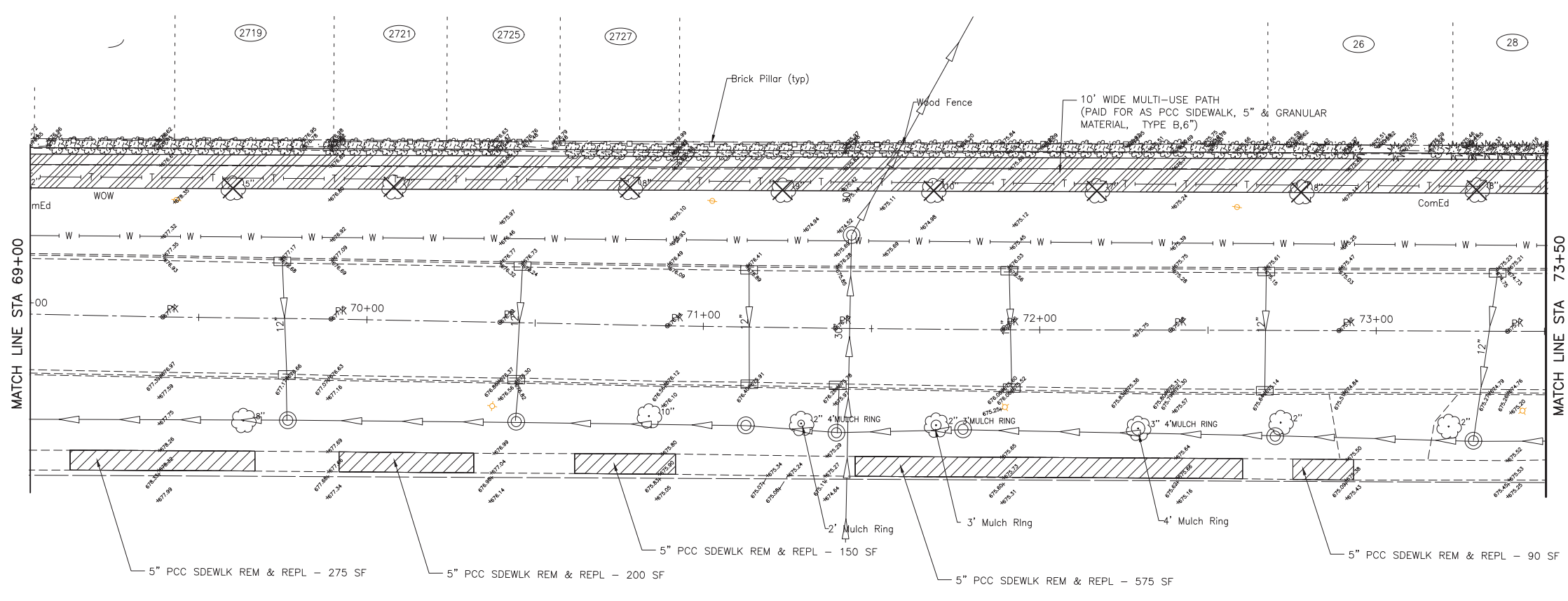
X TREE REMOVAL

Diagonal hatching: SIDEWALK REMOVAL & REPLACEMENT

Horizontal hatching: NEW 10' WIDE MULTI-USE PATH

Grid hatching: AREA TO BE GRADED

Diagonal hatching (top-right): HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



FILE NAME = 2021 KENSINGTON RD.dwg

USER NAME = chomuth	DESIGNED - NJ	REVISED -
LAYOUT NAME = 64+50 - 73+50	DRAWN - CH	REVISED -
PLOT SCALE = 20.00' / IN.	CHECKED - MP	REVISED -
PLOT DATE = Feb 11, 2021-12:07pm	DATE - 11-03-2020	REVISED -

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

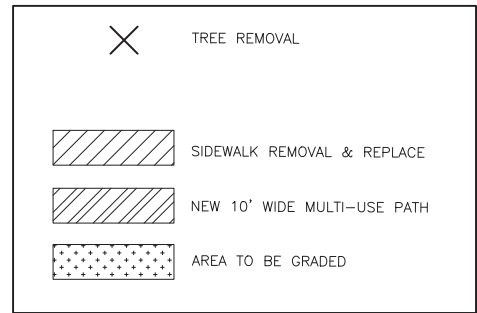
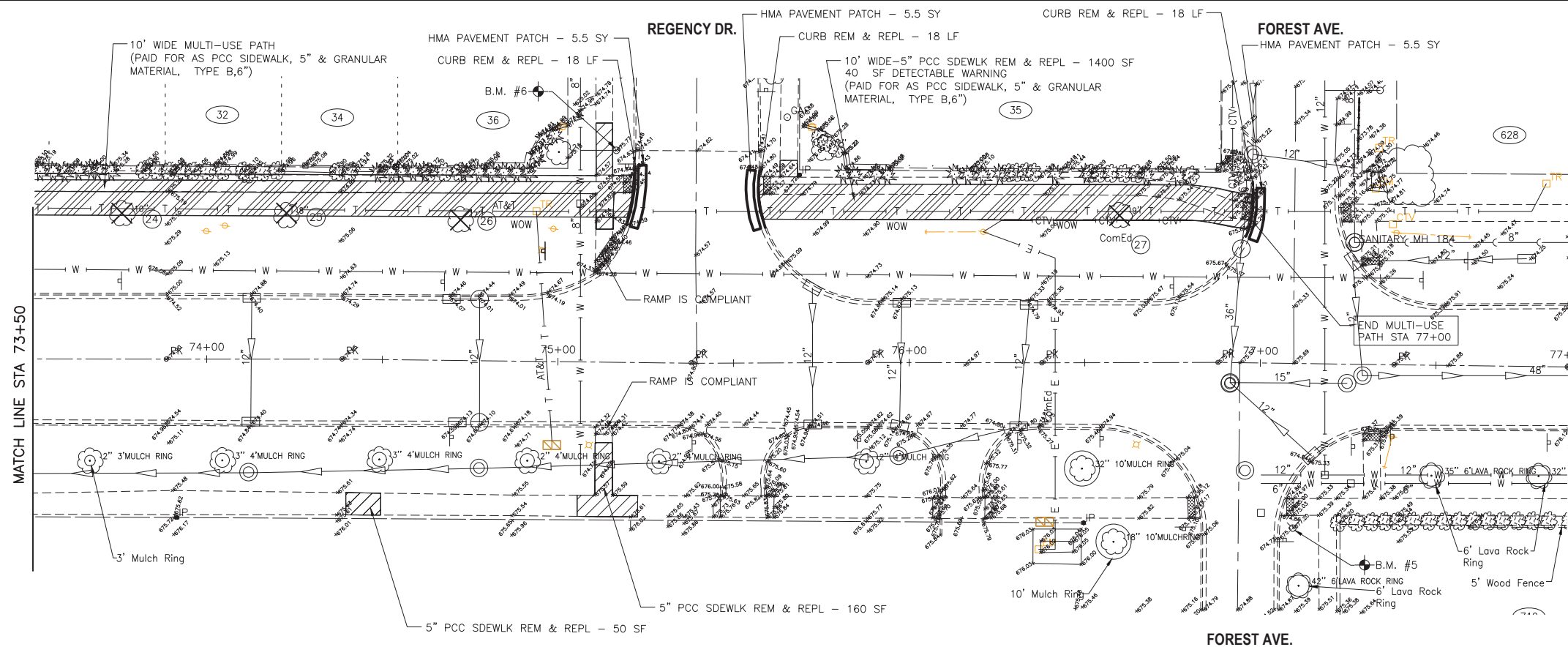
**KENSINGTON ROAD**  
**ROADWAY PLAN**

HORIZ. 1"=20'  
SCALE: VERT. 1"=5' SHEET NO. 15 OF 45 SHEETS STA. 64+50 TO STA. 73+50

F.A.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00209-00-RS	COOK	45	15
CONTRACT NO. 61H08				
FED ROAD DIST NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	DESIGNED	BY	DATE
	CHECKED		
	NOTED		
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PROFILE	DESIGNED	BY	DATE
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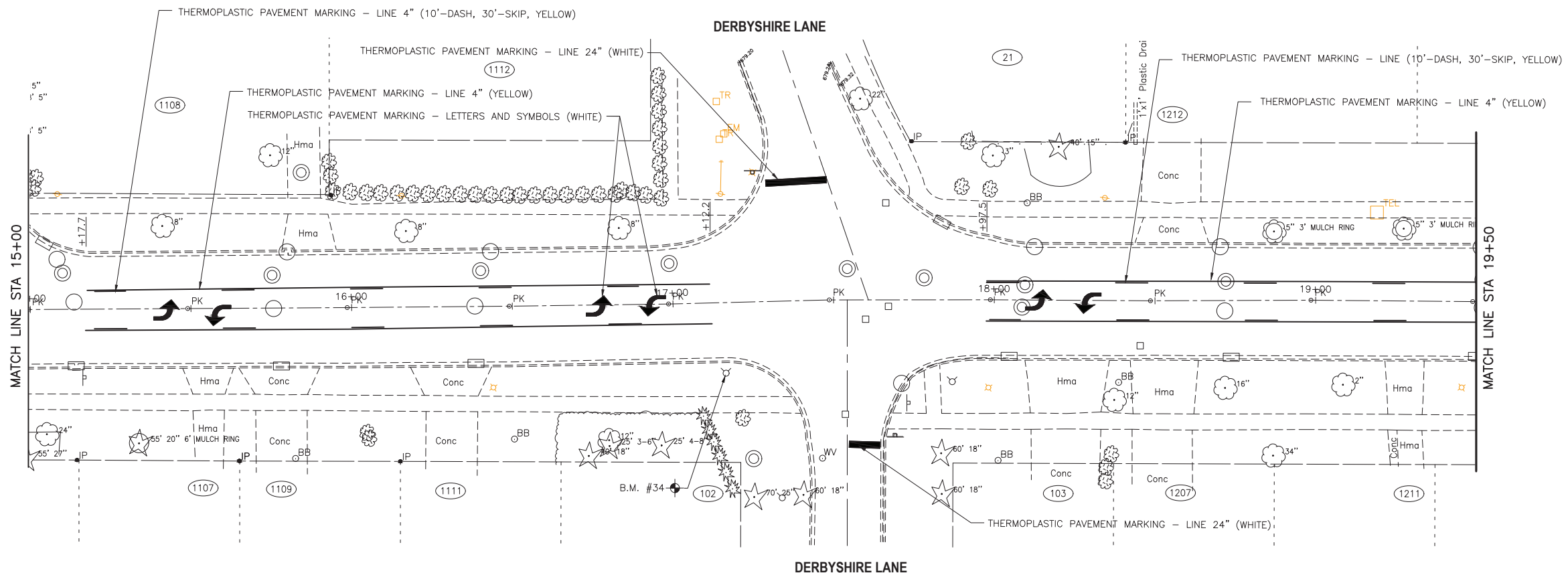
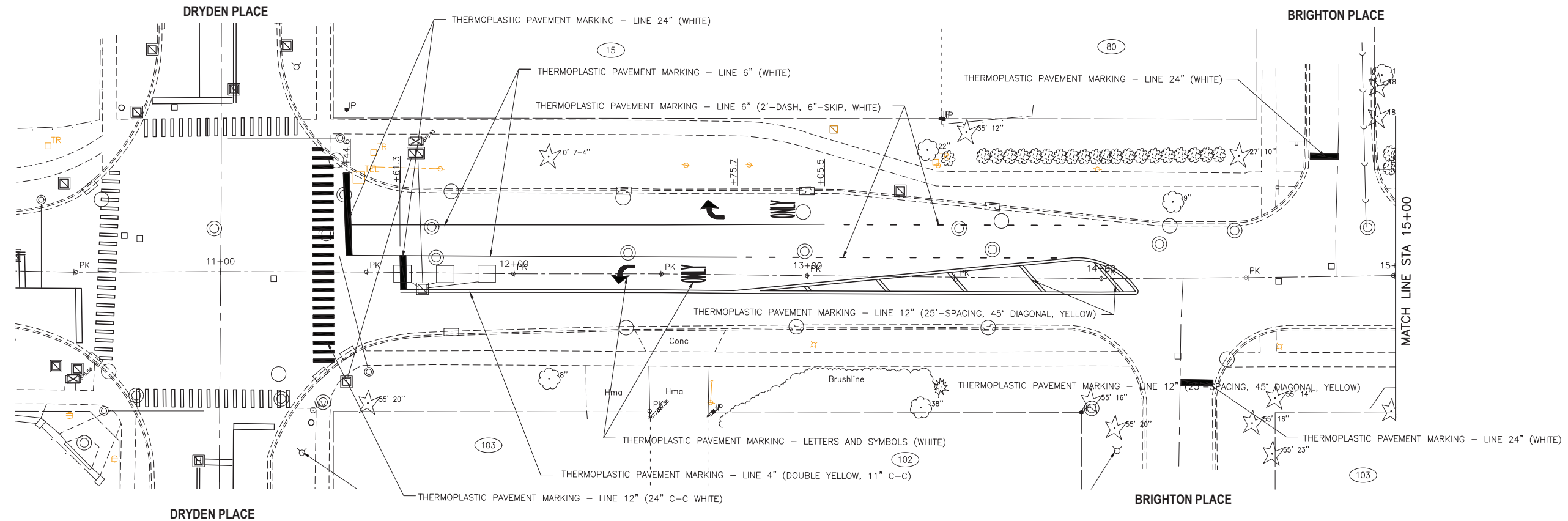
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	LAYOUT NAME = 73+50 - 77+87	DRAWN - CH	REVISED -					17-00209-00-RS	COOK	45	16	
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	PLOT DATE = Feb 11, 2021-12:07pm	DATE - 11-03-2020	REVISED -					STA. 73+50 TO STA. 77+87	CONTRACT NO. 61H08		FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT	

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PLAN	SURVEYED	BY	DATE
	GRADES CHECKED		
	REVISIONS		
	NO.		
	STRUCTURE NOTATIONS CHFD		

PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
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	STRUCTURE NOTATIONS CHFD		



FILE NAME = 2021 KENSINGTON RD.dwg

USER NAME = chomuth  
 LAYOUT NAME = STRIPING 10+50  
 PLOT SCALE = 20.00' / IN.  
 PLOT DATE = Feb 11, 2021-12:07pm

DESIGNED - NJ  
 CHECKED - MP  
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REVISED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

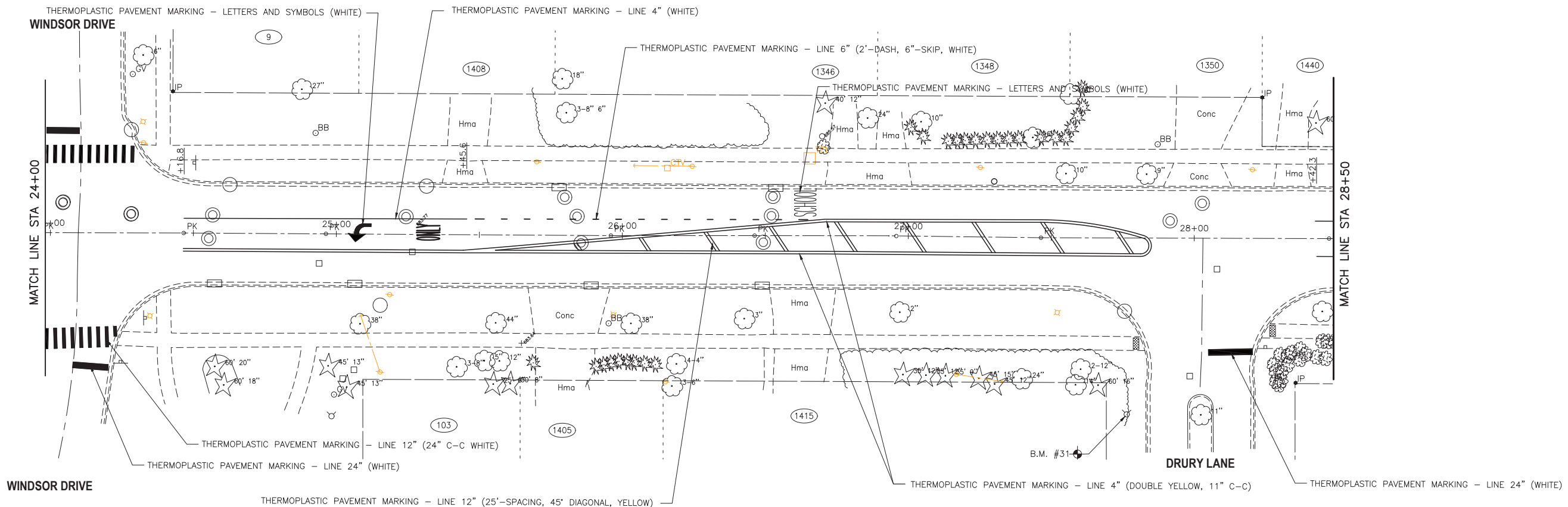
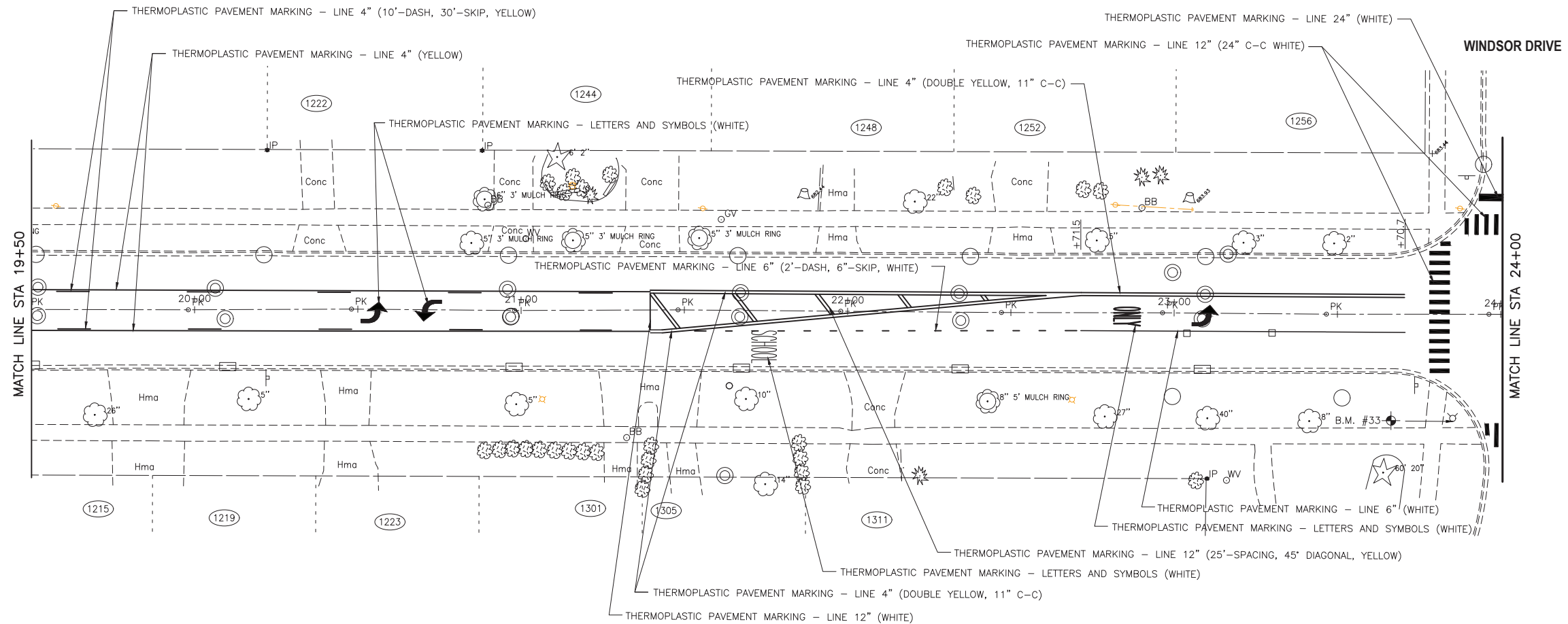
**KENSINGTON ROAD  
 PAVEMENT MARKING**

SCALE: 1"=20'  
 SHEET NO. 17 OF 45 SHEETS  
 STA. 10+50 TO STA. 19+50

F.A.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00209-00-RS	COOK	45	17
CONTRACT NO. 61H08				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	GRADES CHECKED		
NOTE BOOK NO.	REVISIONS		
	STRUCTURE NOTATIONS CH'GD		

PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
NOTE BOOK NO.	REVISIONS		
	STRUCTURE NOTATIONS CH'GD		



T:\1 CAD00.dwg 2/22/21 Kensington Road.dwg

FILE NAME = 2021 KENSINGTON RD.dwg

USER NAME = chomuth  
LAYOUT NAME = STRIPING 19+50 - 28+50  
PLOT SCALE = 20.00' / IN.  
PLOT DATE = Feb 11, 2021-12:08pm

DESIGNED - NJ  
DRAWN - CH  
CHECKED - MP  
DATE - 11-03-2020

REVISED -  
REVISED -  
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REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

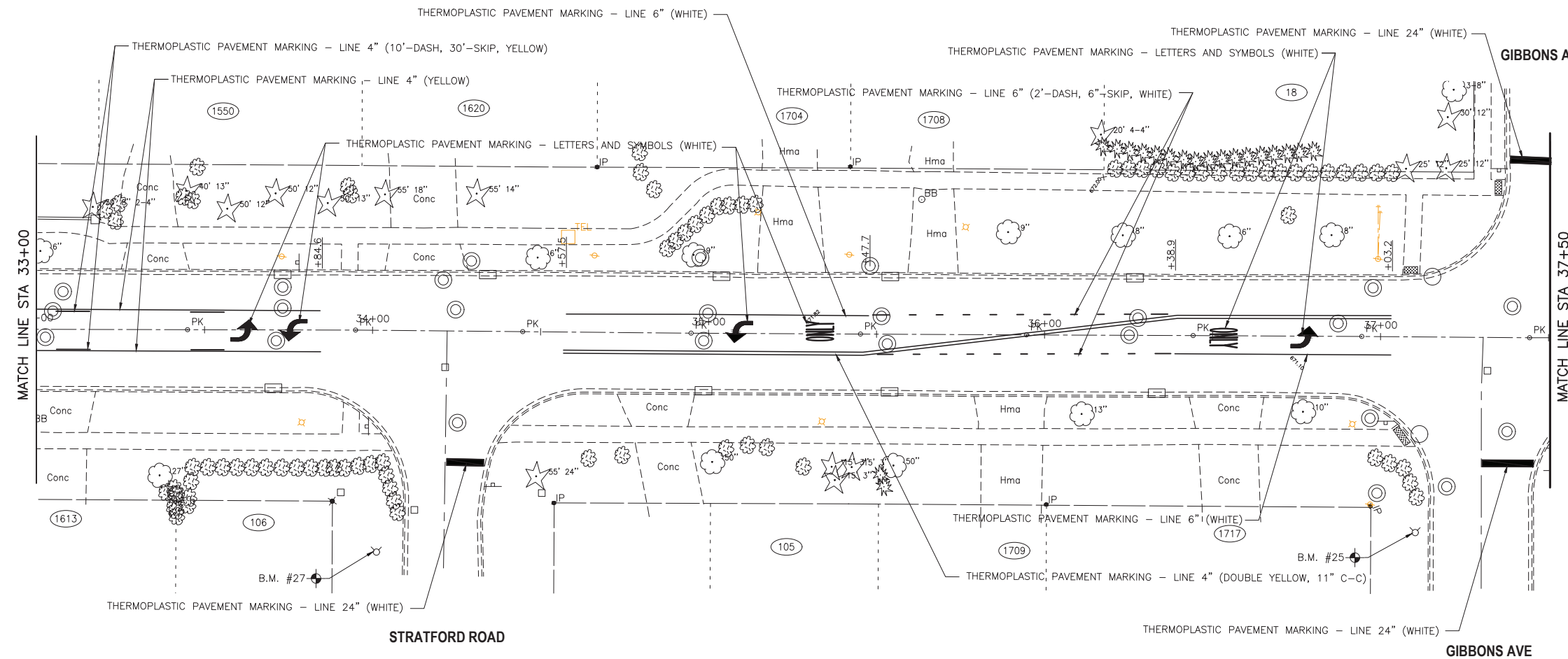
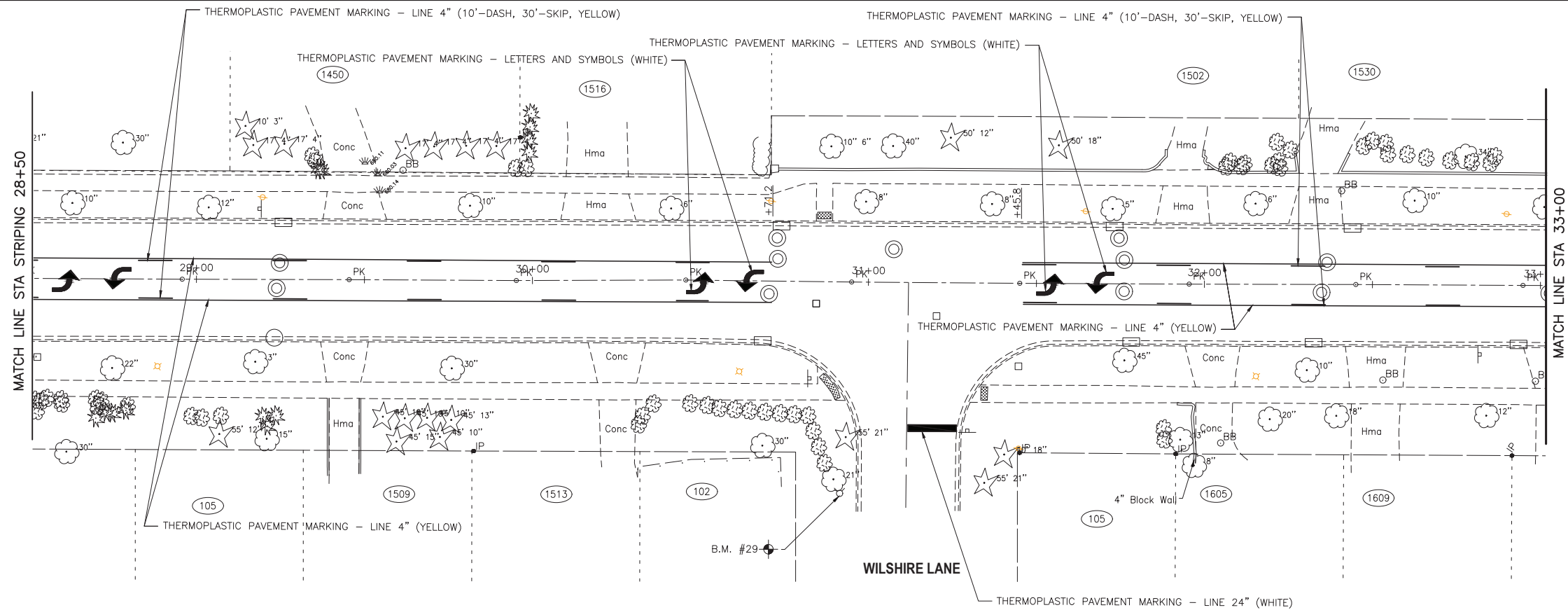
**KENSINGTON ROAD  
PAVEMENT MARKING**

SCALE: 1"=20' SHEET NO. 18 OF 45 SHEETS STA. 19+50 TO STA. 28+50

F.A.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00209-00-RS	COOK	45	18
CONTRACT NO. 61H08			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	GRADES CHECKED	
NOTE BOOK NO.	REVISIONS	
	STRUCTURE NOTATIONS CHFD	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	
NOTE BOOK NO.	REVISIONS	
	STRUCTURE NOTATIONS CHFD	



FILE NAME = 2021 KENSINGTON RD.dwg  
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 REVISED -  
 LAYOUT NAME = STRIPING 28+50 + 37+50  
 DRAWN - CH  
 REVISED -  
 PLOT SCALE = 20.00' / IN.  
 CHECKED - MP  
 REVISED -  
 PLOT DATE = Feb 11, 2021-12:08pm  
 DATE - 11-03-2020  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

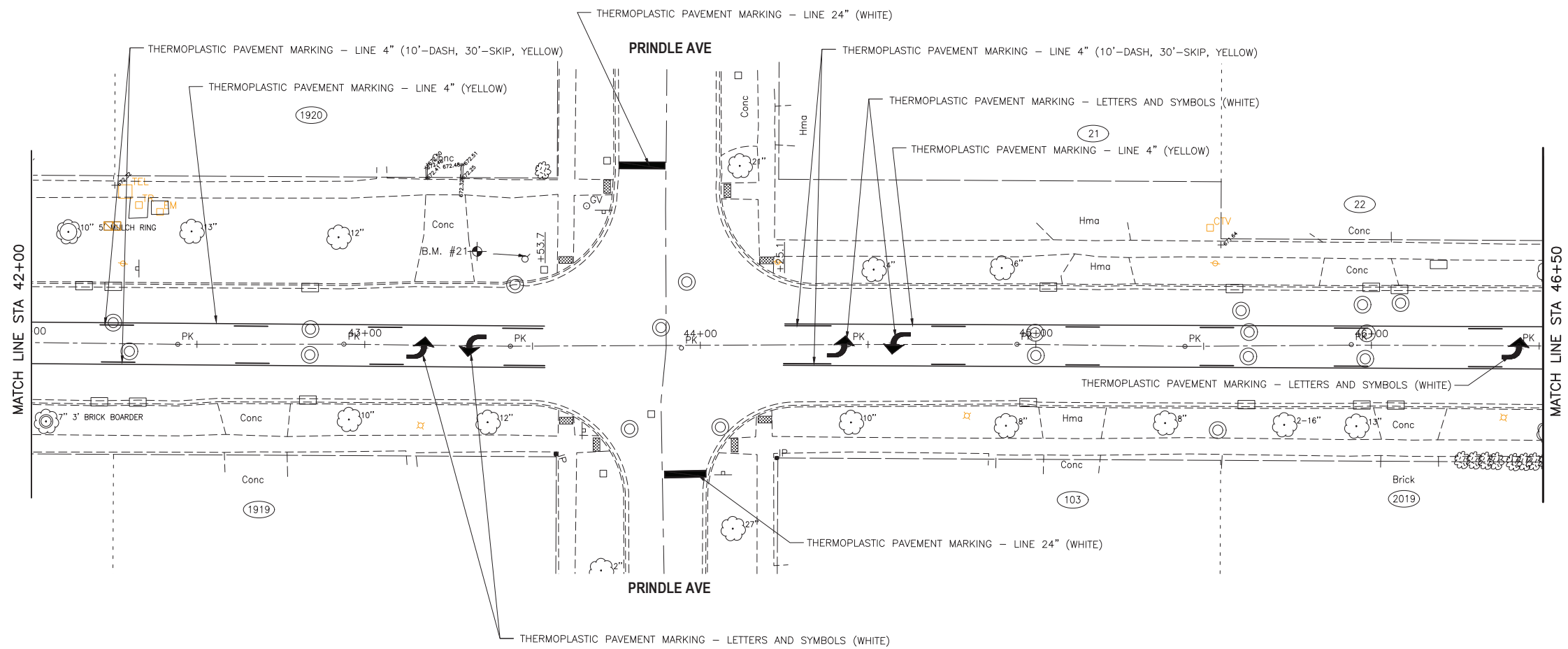
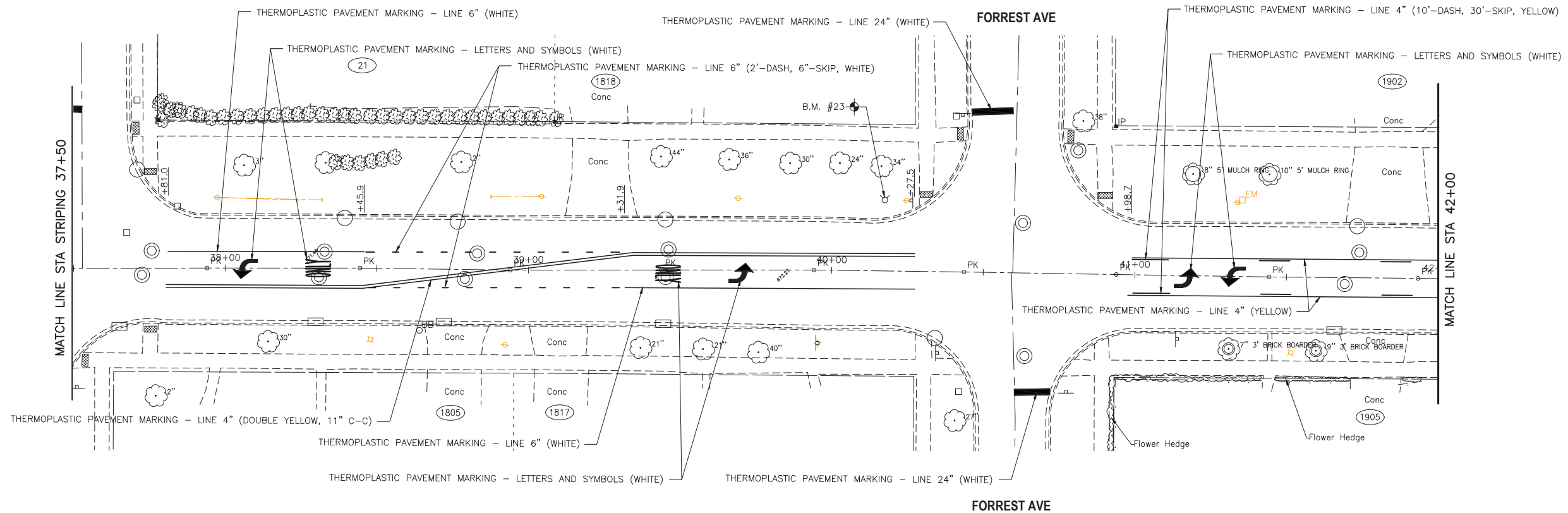
**KENSINGTON ROAD  
 PAVEMENT MARKING**

SCALE: 1"=20' SHEET NO. 19 OF 45 SHEETS STA. 28+50 TO STA. 37+50

F.A.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00209-00-RS	COOK	45	19
CONTRACT NO. 61H08			FED. ROAD DIST NO. 1 ILLINOIS FED. AID PROJECT	

PLAN	REVISIONS	DATE
	BY	
NOTE BOOK NO.	SURVEYED	
	GRADES CHECKED	
	B.M. NOTED	
	STRUCTURE NOTATIONS CH'KD	

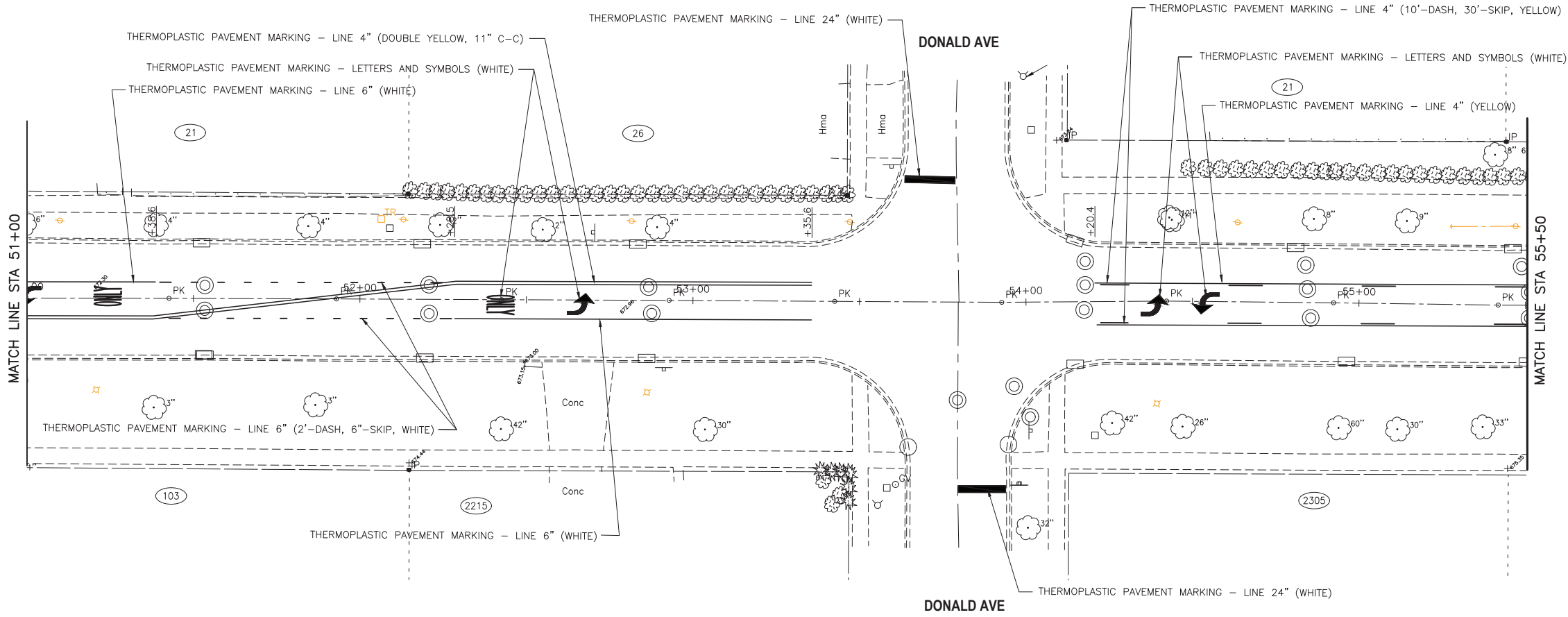
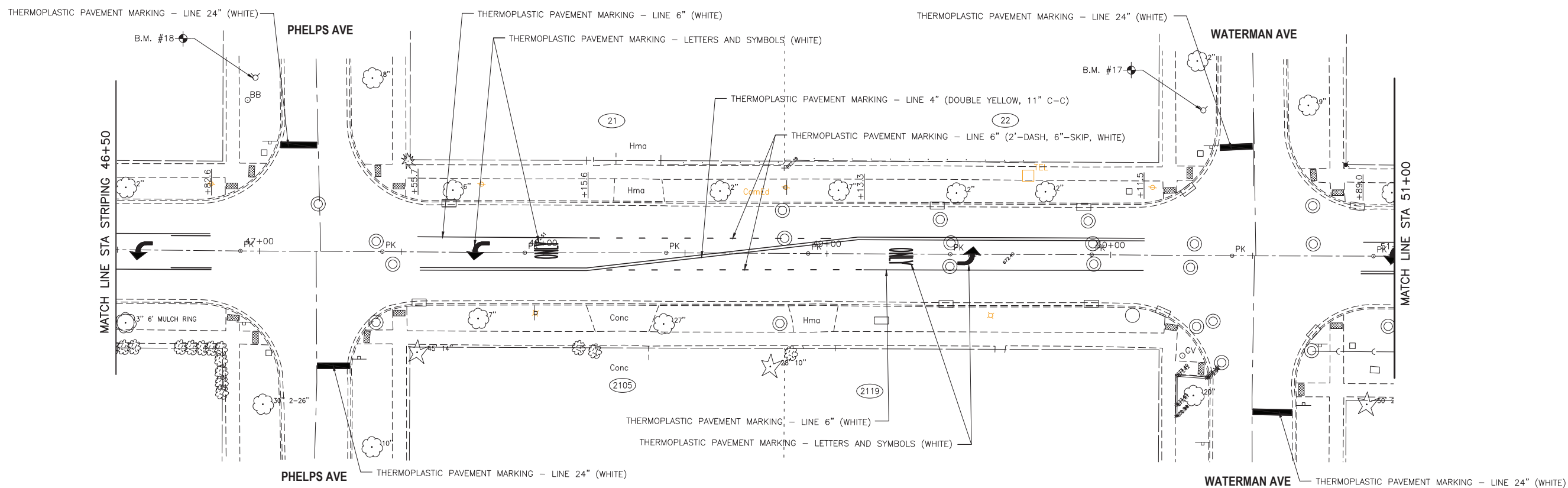
PROFILE	REVISIONS	DATE
	BY	
NOTE BOOK NO.	SURVEYED	
	GRADES CHECKED	
	B.M. NOTED	
	STRUCTURE NOTATIONS CH'KD	



FILE NAME = 2021 KENSINGTON RD.dwg	USER NAME = chomuth	DESIGNED - NJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>KENSINGTON ROAD PAVEMENT MARKING</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LAYOUT NAME = STRIPING 37+50	EXPRESSION - CH	CHECKED - MP	REVISED -			17-00209-00-RS	COOK	45	20	
PLOT SCALE = 20.00' / IN.	DATE - 11-03-2020	REVISED -	SCALE: HORIZ. 1"=20'			SHEET NO. 20 OF 45 SHEETS	STA. 37+50 TO STA. 46+50	CONTRACT NO. 61H08		
PLOT DATE = Feb 11, 2021-12:08pm	REVISED -	SCALE: VERT. 1"=5'	FED ROAD DIST NO. 1 ILLINOIS FED. AID PROJECT							

PLAN	SURVEYED	BY	DATE
	GRADES CHECKED		
NOTE BOOK NO.	B.M. NOTED		
	STRUCTURE NOTATIONS CH'VD		

PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
NOTE BOOK NO.	B.M. NOTED		
	STRUCTURE NOTATIONS CH'VD		



FILE NAME = 2021 KENSINGTON RD.dwg

USER NAME = chomuth  
 LAYOUT NAME = STRIPING 46+50  
 PLOT SCALE = 20.00' / IN.  
 PLOT DATE = Feb 11, 2021-12:08pm

DESIGNED - NJ  
 CHECKED - MP  
 DATE - 11-03-2020

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

KENSINGTON ROAD  
 PAVEMENT MARKING

HORIZ. 1"=20'  
 SCALE: VERT. 1"=5' SHEET NO. 21 OF 45 SHEETS STA. 46+50 TO STA. 46+50

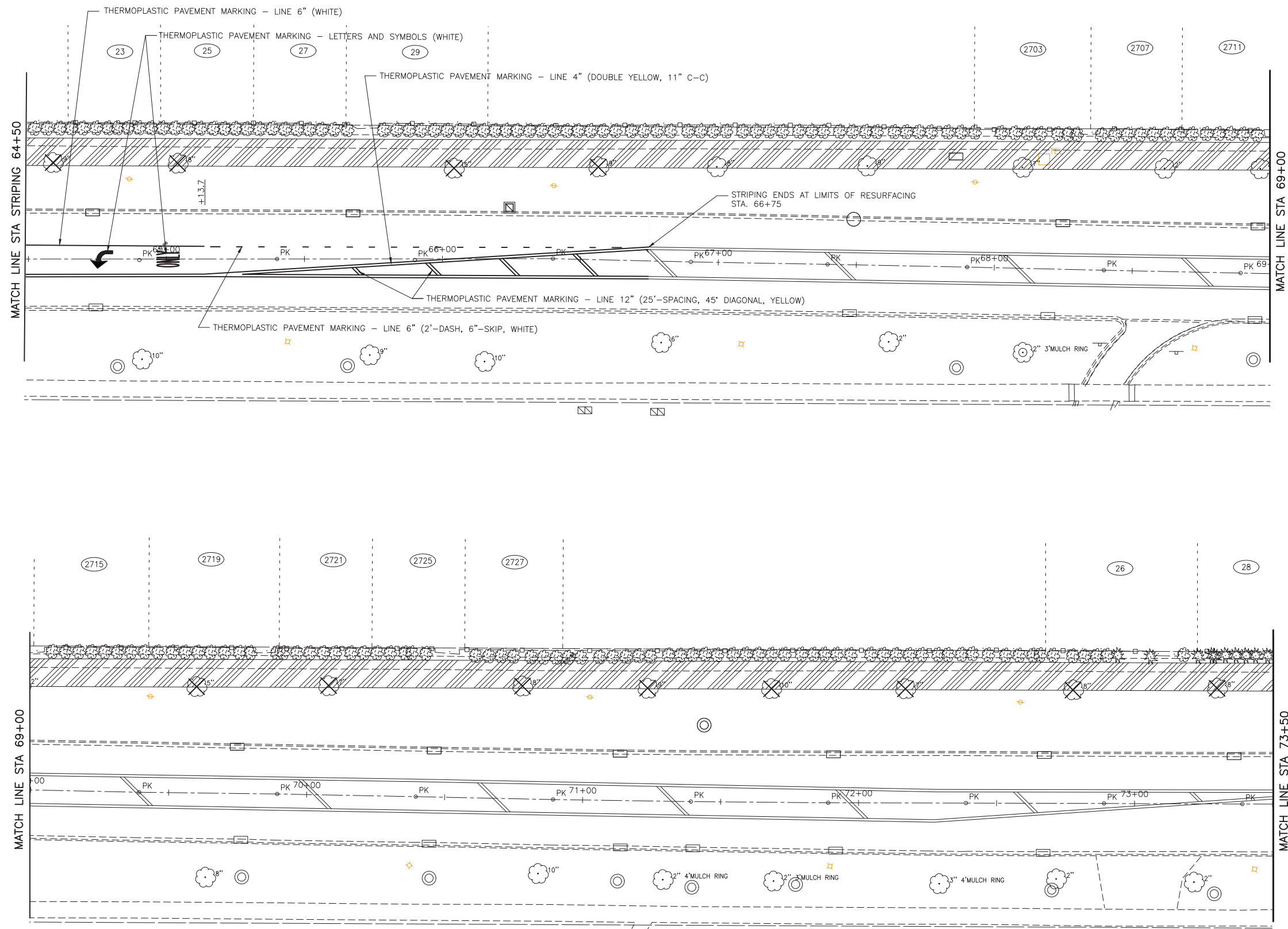
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	17-00209-00-RS	COOK	45	21
CONTRACT NO. 61H08			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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PLAN	DESIGNED	BY	DATE
	CHECKED		
NOTE BOOK	GRADES CHECKED		
NO.	REVISIONS		
	STRUCTURE NOTATIONS CHFD		

PROFILE	DESIGNED	BY	DATE
	CHECKED		
NOTE BOOK	GRADES CHECKED		
NO.	REVISIONS		
	STRUCTURE NOTATIONS CHFD		



FILE NAME = 2021 KENSINGTON RD.dwg	USER NAME = chomuth	DESIGNED - NJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>KENSINGTON ROAD PAVEMENT MARKING</b>	F.A.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LAYOUT NAME = STRIPING 64+50	DESIGNED - CH	REVISED -	17-00209-00-RS			COOK	45	23		
PLOT SCALE = 20.00' / IN.	CHECKED - MP	REVISED -	CONTRACT NO. 61H08							
PLOT DATE = Feb 11, 2021-12:09pm	DATE - 11-03-2020	REVISED -	FED ROAD DIST NO. 1 ILLINOIS FED. AID PROJECT							
					HORIZ. 1"=20'	SCALE: VERT. 1"=5'		SHEET NO. 23 OF 45 SHEETS		STA. 64+50 TO STA. 73+50

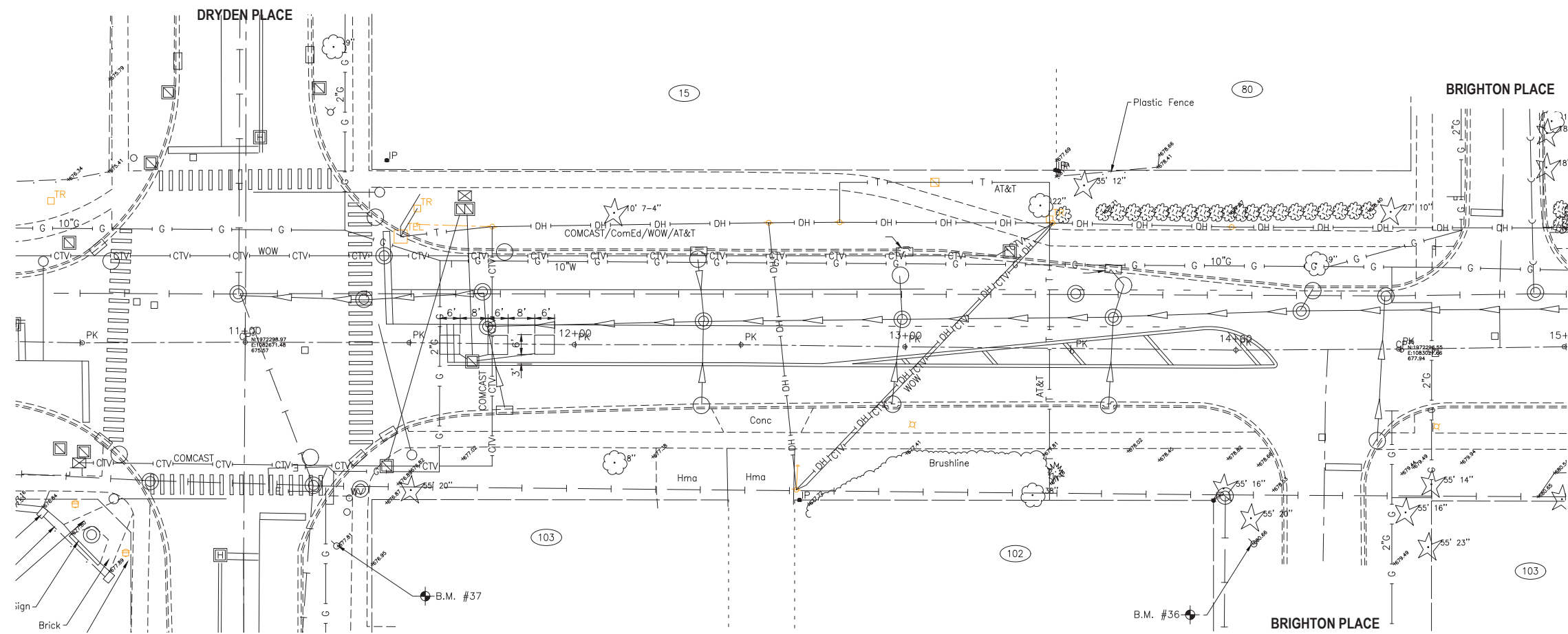
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PLAN	SURVEYED	BY	DATE
	GRADES CHECKED		
	REVISIONS		
	NO.		

PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
	REVISIONS		
	NO.		



**DETECTOR LOOP NOTES:**

1. PROPOSED DETECTOR LOOPS ARE SHOWN TO MATCH EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY ALL DETECTOR LOOPS LOCATIONS AND CONFIRM ROUTING BACK TO HANDHOLE.
2. ANY PROPOSED CHANGES TO THE DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.
3. EXISTING LOOPS BEYOND RESURFACING LIMITS SHALL REMAIN IN PLACE FOR USE IN THE PROPOSED CONDITION. CONTRACTOR SHALL TAKE CARE TO AVOID DAMAGING EXISTING LOOPS OUTSIDE OF RESURFACED AREAS.
4. MAINTENANCE OF THE EXISTING TRAFFIC SIGNAL INSTALLATION NOT REQUIRED



FILE NAME = 2021 KENSINGTON RD.dwg	USER NAME = chomuth	DESIGNED - NJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>KENSINGTON ROAD DETECTOR LOOP REPLACEMENT PLAN</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	LAYOUT NAME = LOOP DETECTOR @ DRYDEN	DRAWN - CH	REVISED -		HORIZ. 1"=20' SCALE: VERT. 1"=5' SHEET NO. 25 OF 45 SHEETS STA. TO STA.			17-00209-00-RS	COOK	45	25	
	PLOT SCALE = 20.00' / IN.	CHECKED - MP	REVISED -					CONTRACT NO. 61H08				
	PLOT DATE = Feb 11, 2021-12:10pm	DATE - 11-03-2020	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

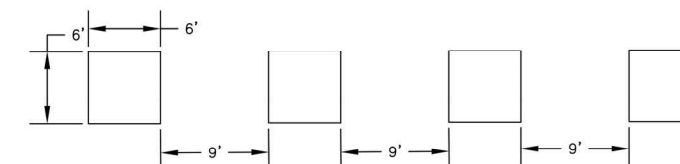
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**SIGNAL NOTES**

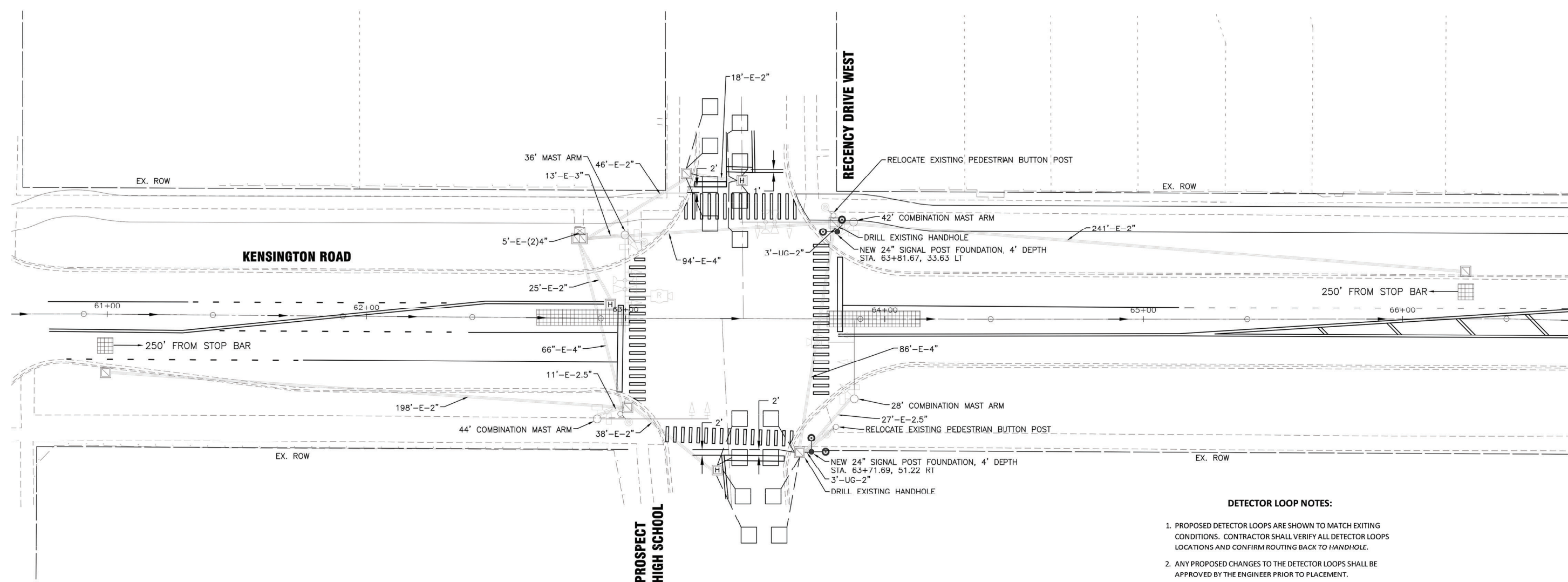
- 1) EXISTING PEDESTRIAN PUSH BUTTON POSTS IN THE NORTHEAST AND SOUTHEAST CORNERS SHALL BE RELOCATED TO NEW 24" CONCRETE FOUNDATIONS AS INDICATED ON THE PLAN SHEET. THE EXISTING 24" FOUNDATIONS SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR OFF-SITE. THE EXISTING 2" CONDUIT SHALL BE ABANDONED.
- 2) THE EXISTING PEDESTRIAN PUSH BUTTONS SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR OFF-SITE. THE COST OF REMOVING AND DISPOSING THE EXISTING BUTTONS SHALL BE INCLUDED IN THE COST OF "RELOCATE EXISTING TRAFFIC SIGNAL POST".
- 3) THE EXISTING 2/C CABLE TO EACH PEDESTRIAN PUSH BUTTON POST SHALL BE PULLED BACK TO THE NEAREST HANDHOLE AND REUSED. ADDITIONAL NEW 2/C CABLES SHALL BE RUN FROM THE CONTROLLER CABINET TO EACH NEW POST.
- 4) TWO NEW PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON EACH RELOCATED POST.
- 5) DURING CONSTRUCTION, THE EAST LEG PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISABLED UNTIL THE NEW PEDESTRIAN PUSH BUTTONS ARE OPERATIONAL. THIS SHALL BE INCLUDED IN THE COST OF THE "RELOCATE EXISTING TRAFFIC SIGNAL POST" PAY ITEM.

**DETECTOR LOOP TYPICAL LAYOUT**



PLAN	SURVEYED	DATE
NO.	BY	
	GRADES CHECKED	
	REVISIONS	
	STRUCTURE NOTATIONS CHKD	

PROFILE	SURVEYED	DATE
NO.	BY	
	GRADES CHECKED	
	REVISIONS	
	STRUCTURE NOTATIONS CHKD	



**DETECTOR LOOP NOTES:**

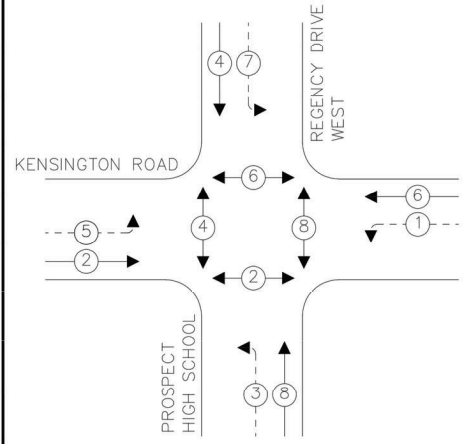
1. PROPOSED DETECTOR LOOPS ARE SHOWN TO MATCH EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY ALL DETECTOR LOOP LOCATIONS AND CONFIRM ROUTING BACK TO HANDHOLE.
2. ANY PROPOSED CHANGES TO THE DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.
3. EXISTING LOOPS BEYOND RESURFACING LIMITS SHALL REMAIN IN PLACE FOR USE IN THE PROPOSED CONDITION. CONTRACTOR SHALL TAKE CARE TO AVOID DAMAGING EXISTING LOOPS OUTSIDE OF RESURFACED AREAS.
4. THE KENSINGTON ROAD TURN LANES (EASTBOUND AND WESTBOUND) ARE ACTIVATED BY RADAR DETECTION.

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FILE NAME = 2021 KENSINGTON RD_HLR.dwg	USER NAME = nhalan	DESIGNED - NAH	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>KENSINGTON ROAD AND REGENCY DRIVE WEST TRAFFIC SIGNAL PLAN</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	LAYOUT NAME =	DRAWN - NAH	REVISED -		HORIZ. 1"=20'			17-00209-00-RS	COOK	45	26
	PLOT SCALE = 20.00' / IN.	CHECKED - JAM	REVISED -		SCALE: VERT. 1"=5'		SHEET NO.26 OF 45 SHEETS	STA.	TO STA.	CONTRACT NO. 61H08	
	PLOT DATE = Feb 08, 2021-4:07pm	DATE - 2-8-2021	REVISED -		FED ROAD DIST NO. 1 ILLINOIS FED. AID PROJECT						

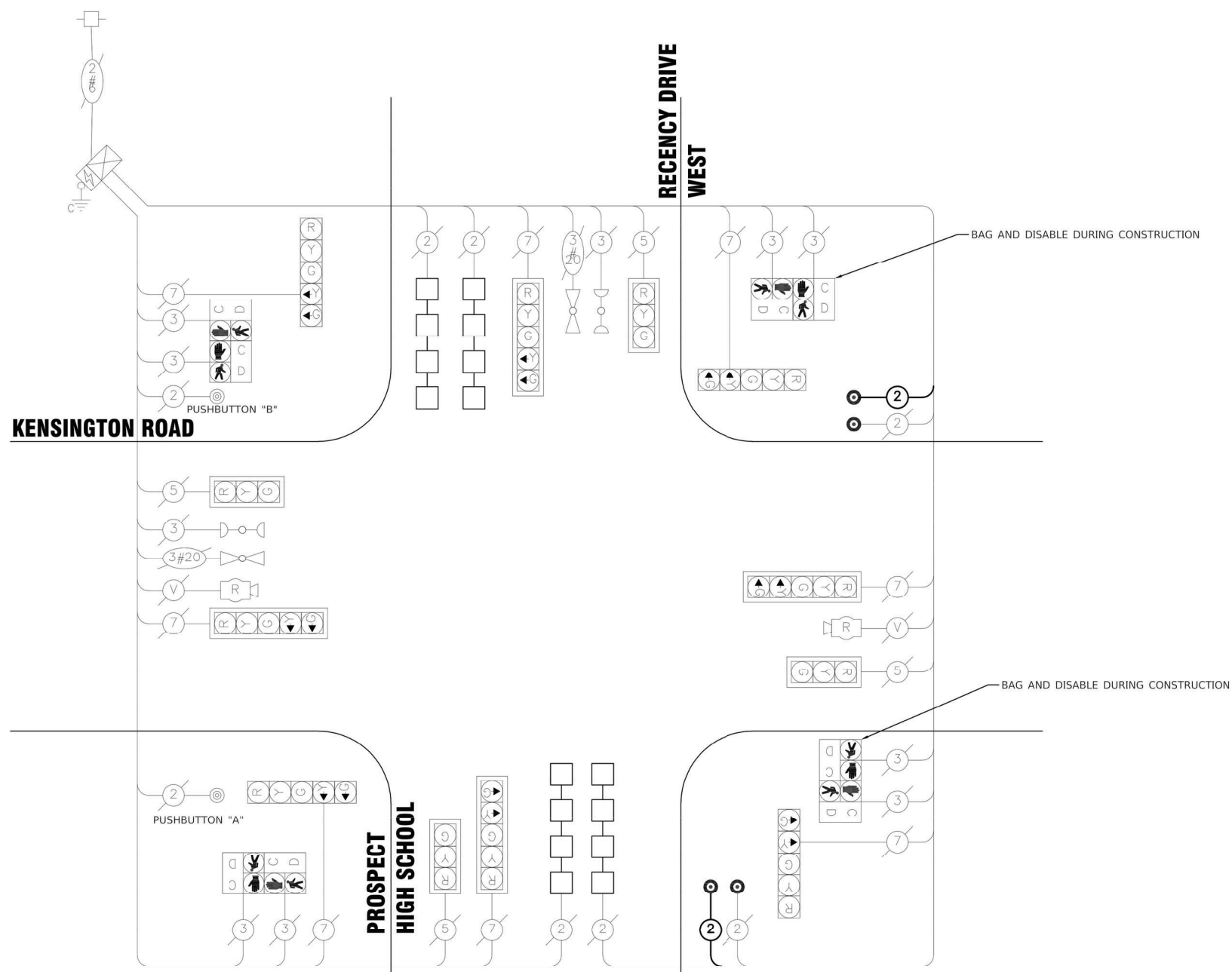
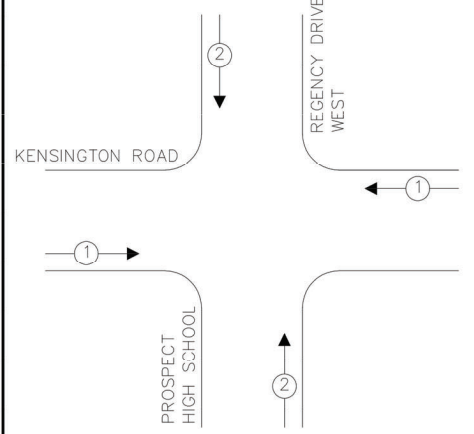


**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



- LEGEND:**
- ← (⊛) ← PROTECTED PHASE
  - ← (⊛) - - PROTECTED/PERMITTED PHASE
  - ← (⊛) → PEDESTRIAN PHASE
  - ⊛ OL OVERLAP

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**CABLE PLAN**  
(NOT TO SCALE)

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNIT	QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	6
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	360
CONCRETE FOUNDATION, TYPE A	FOOT	8
DRILL EXISTING HANDHOLE	EACH	2
DETECTOR LOOP, TYPE I	FOOT	740
PEDESTRIAN PUSH-BUTTON	EACH	4
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	2
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	33
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
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	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
RADAR SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
<b>TOTAL =</b>				<b>592.8</b>

ENERGY COSTS TO:  
**VILLAGE OF ARLINGTON HEIGHTS**  
 33 S. ARLINGTON HEIGHTS ROAD  
 ARLINGTON HEIGHTS, IL 60005  
 ENERGY SUPPLY: CONTACT: CHRISTIAN MUKANIA  
 PHONE: (339)-440-6254  
 COMPANY: COM-ED  
 ACCOUNT NUMBER: ---

- 1) PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
- 2) PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6

PLAN	SURVEYED	DATE
	GRADES CHECKED	
	REVISIONS	
	NO. _____	DATE _____
	BY _____	

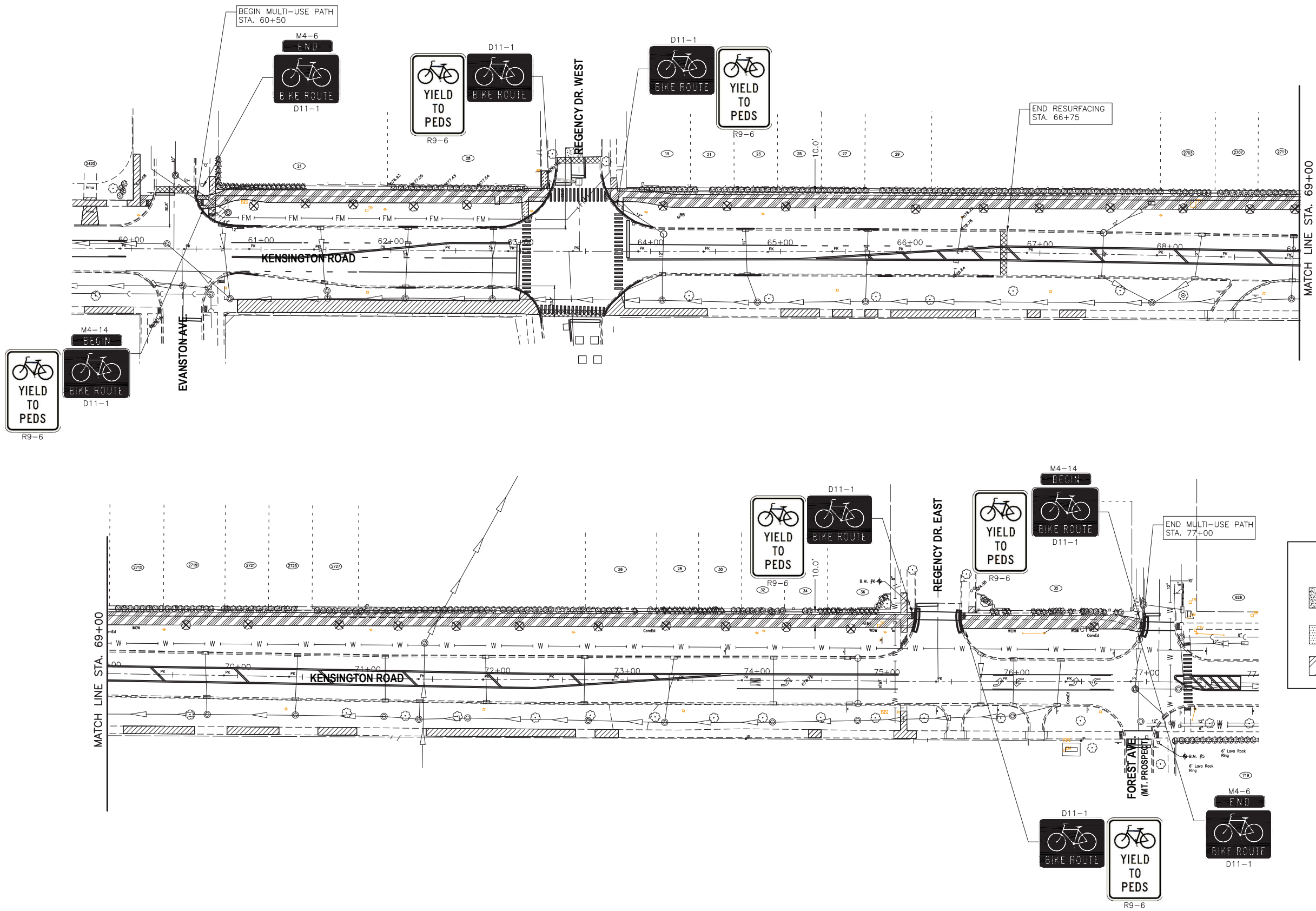
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	GRADES CHECKED	
	REVISIONS	
	NO. _____	DATE _____
	BY _____	

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PLAN	SURVEYED	BY	DATE
	NOTED		
	GRADES CHECKED		
	EM. NOTED		
	STRUCTURE NOTATIONS CHKD		
	NO.		

PROFILE	SURVEYED	BY	DATE
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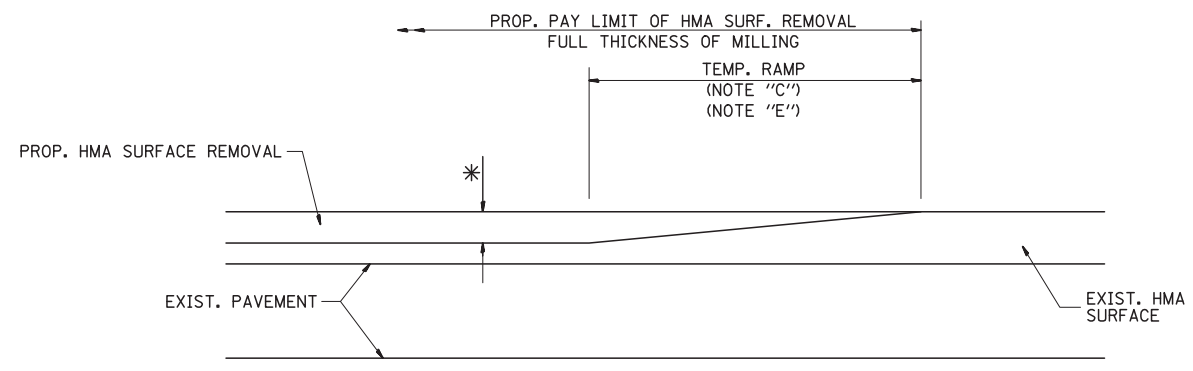


FILE NAME =	USER NAME = chomuth	DESIGNED - NJ	REVISED -
2021 KENSINGTON RD.dwg	LAYOUT NAME = BIKE PATH SIGNAGE	DRAWN - CH	REVISED -
	PLOT SCALE = 40.00' / IN.	CHECKED - MP	REVISED -
	PLOT DATE = Feb 11, 2021-12:11pm	DATE - 11-03-2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

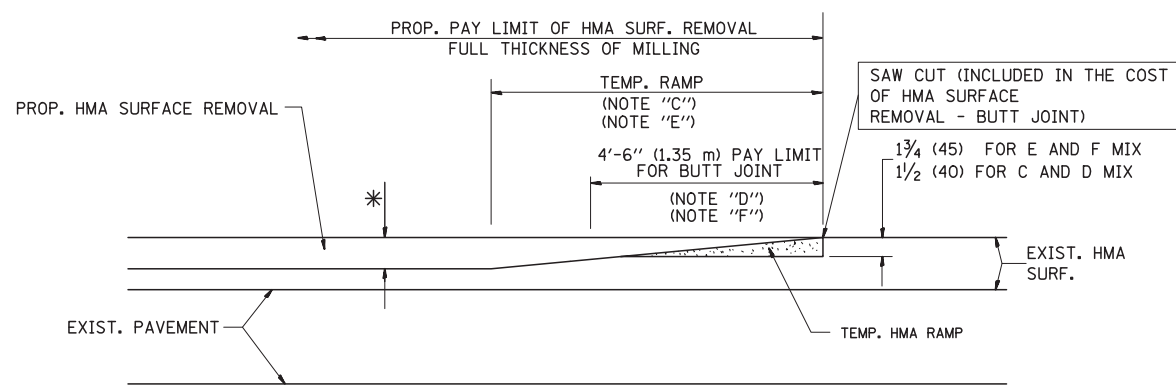
<b>KENSINGTON ROAD BIKE PATH SIGNAGE PLAN</b>	
SCALE: 1"=40'	SHEET NO. 28 OF 45 SHEETS

F.A.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00209-00-RS	COOK	45	28
CONTRACT NO. 61H08				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



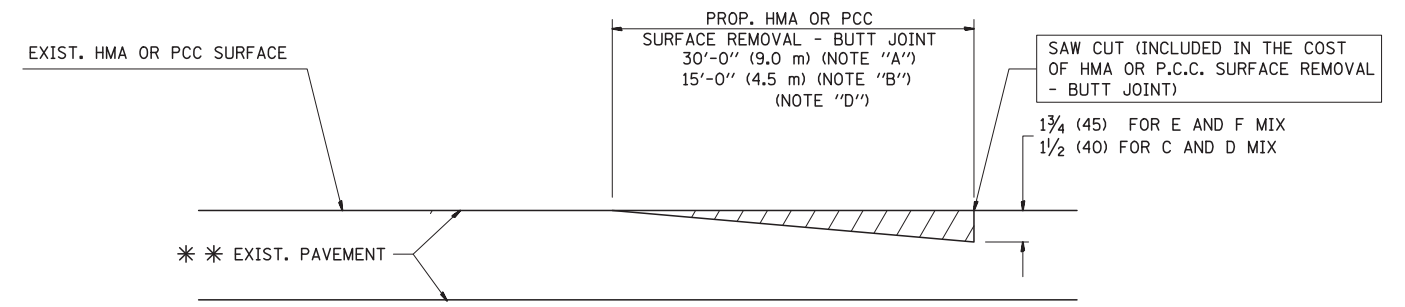
MILLED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**



HMA CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**

**NOTES**

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - 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'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \* \* \* 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".

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

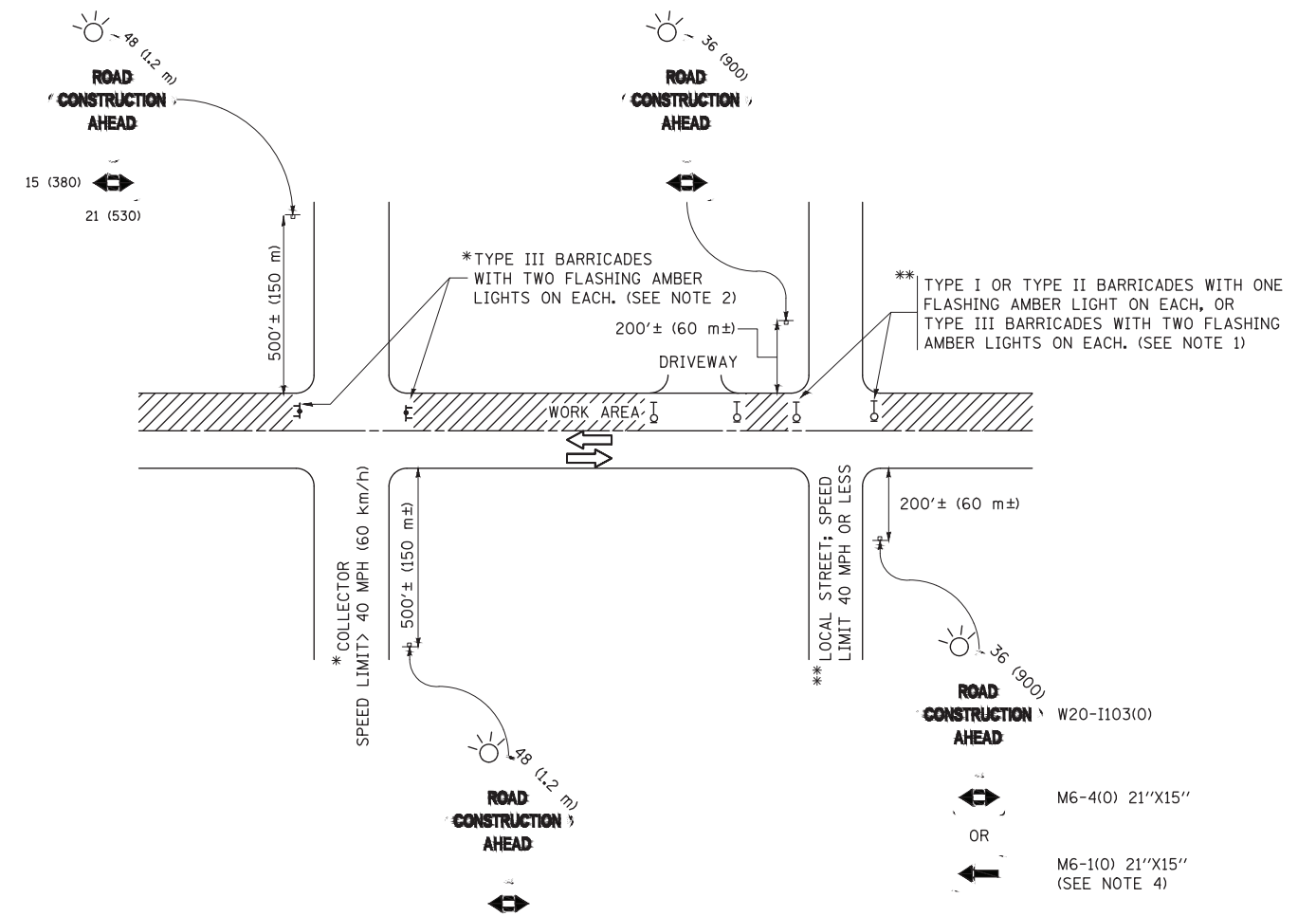
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PLOT SCALE = 50,0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>BUTT JOINT AND HMA TAPER DETAILS</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00209-00-RS		45	29
80400-05 8032			CONTRACT NO. 61H08	
FED. ROAD DIST. NO. 1 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.

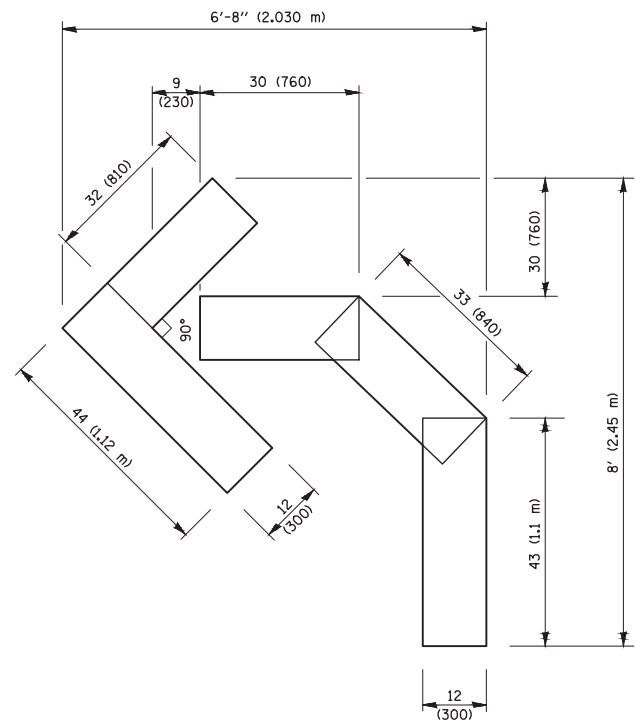
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Default	PLOT SCALE = 50.000' / in.	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

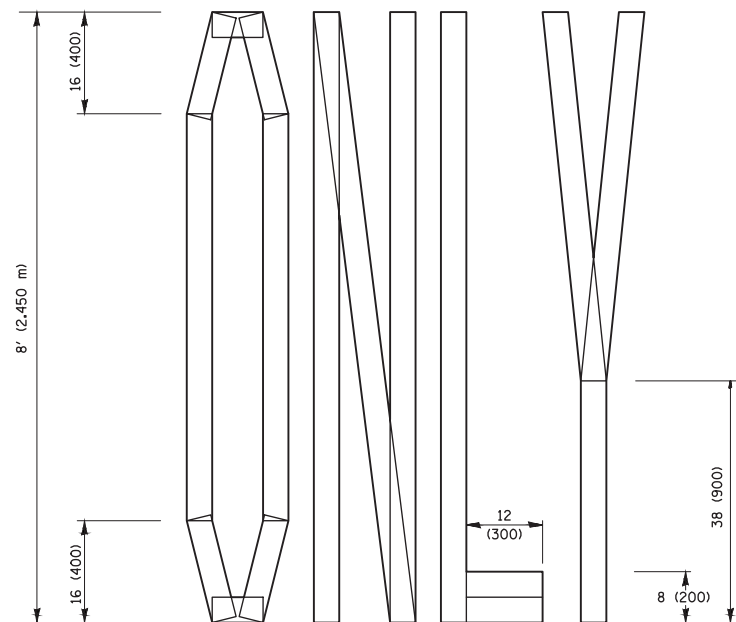
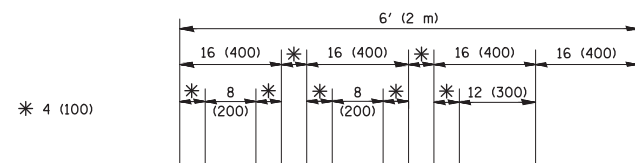
**TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

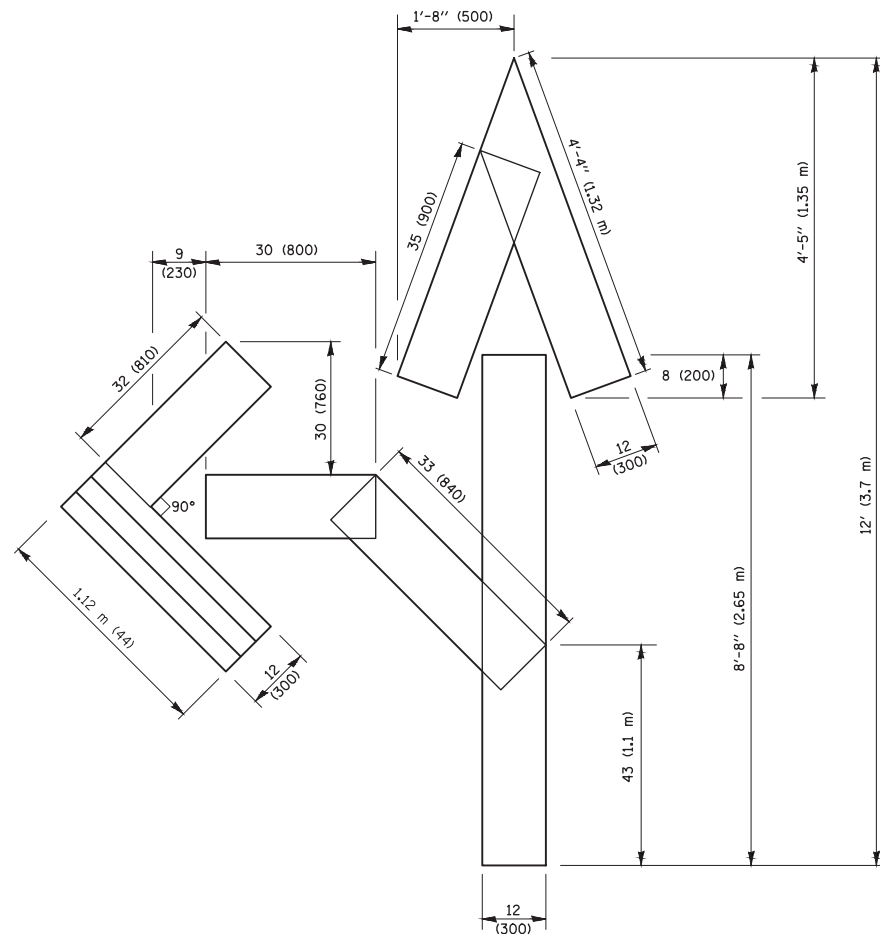
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00209-00-RS		45	30
<b>TC-10</b>			CONTRACT NO. 61H08	
ILLINOIS FED. AID PROJECT				



**QUANTITY**  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.41 sq. m)

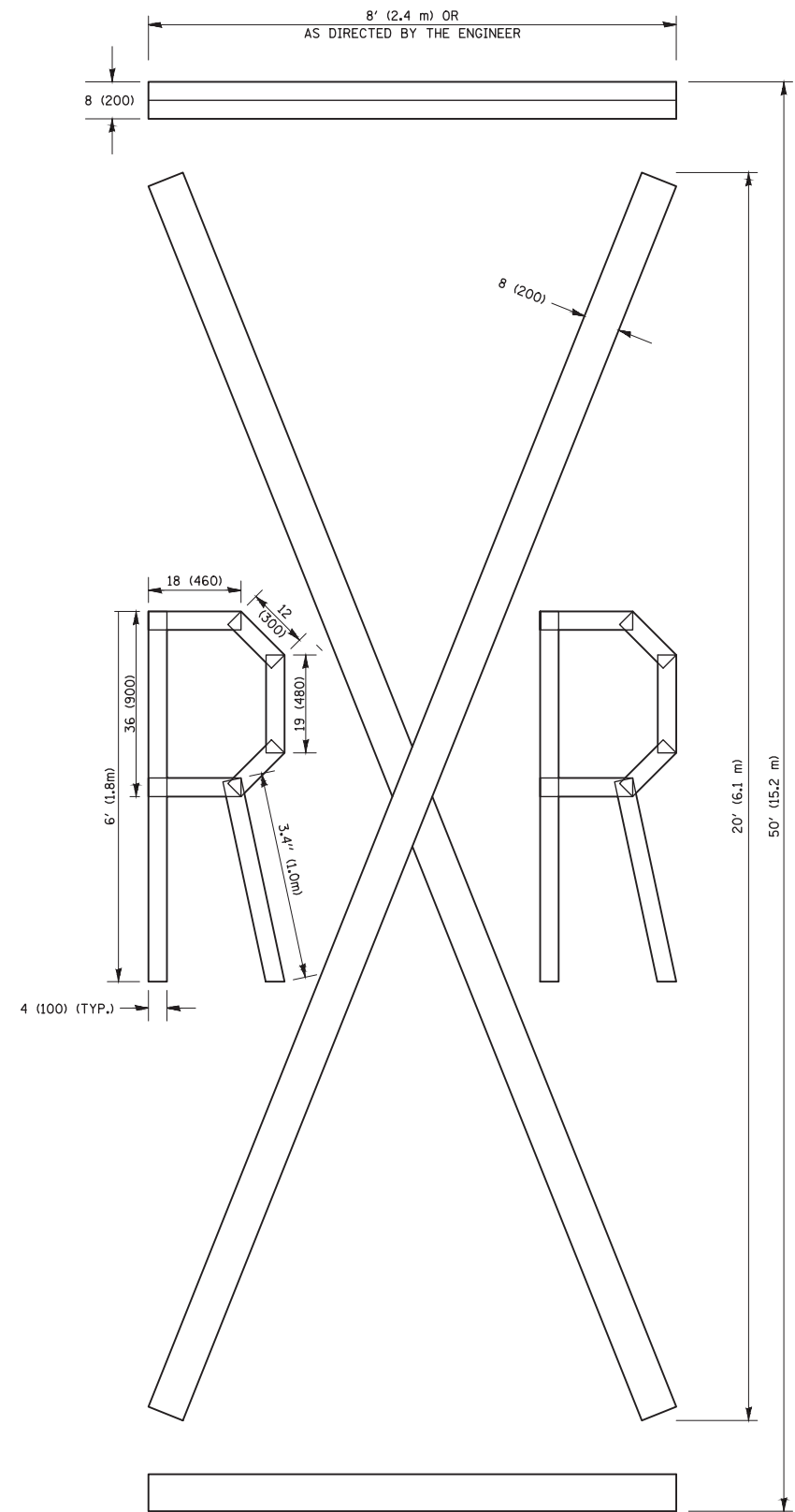


**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



**QUANTITY**  
 4 (100) LINE = 82.5 ft. (25.1 m)  
 27.5 sq. ft. (2.53 sq. m)

**NOTE:**  
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



**QUANTITY**  
 4 (100) LINE = 225.9 ft. (68.9 m)  
 75.3 sq. ft. (6.99 sq. m)

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

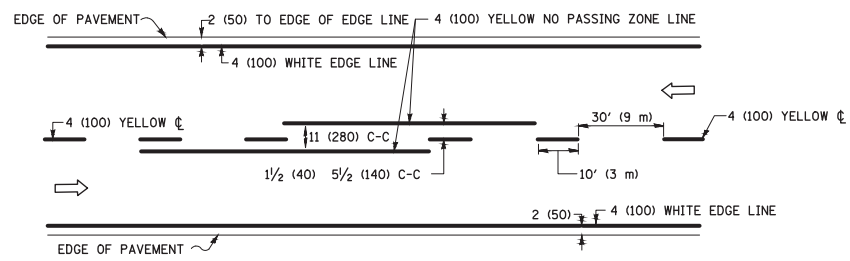
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		DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00
			REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

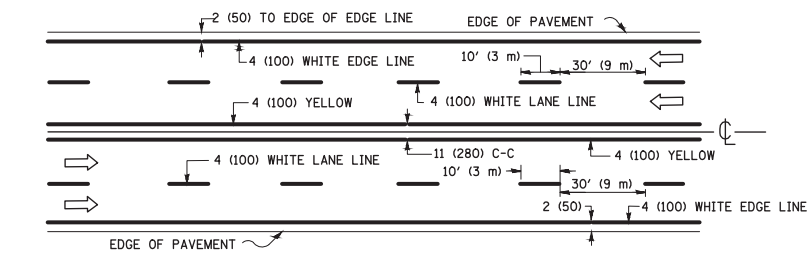
**SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS**

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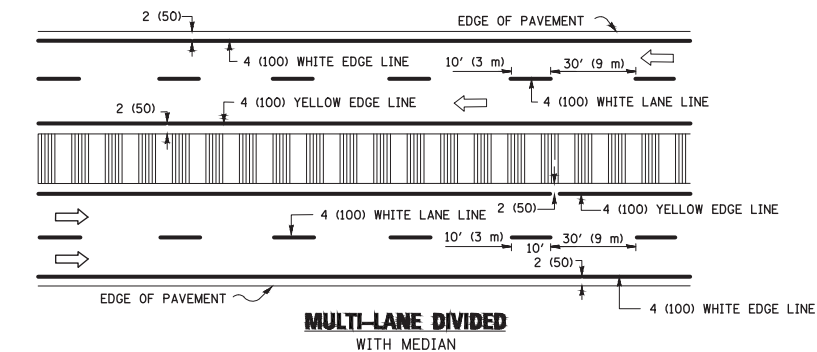
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TC-16		CONTRACT NO. 61H08		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



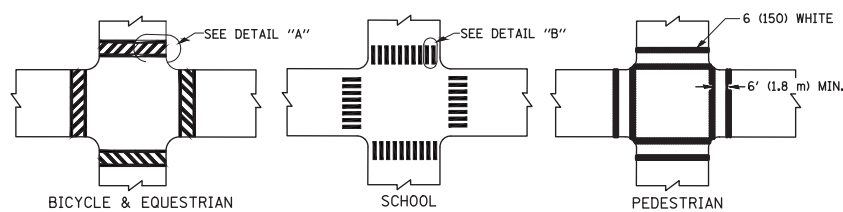
**2-LANE ROADWAY**



**MULTI-LANE UNDIVIDED**



**TYPICAL LANE AND EDGE LINE MARKING**

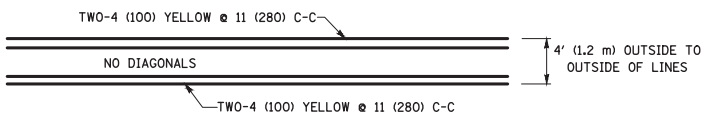


**DETAIL "A"**

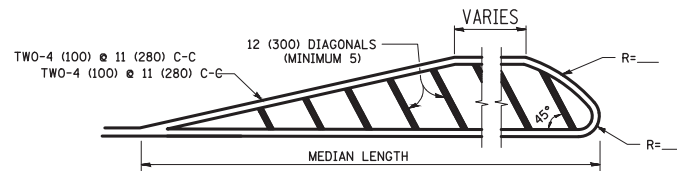
**DETAIL "B"**

**TYPICAL CROSSWALK MARKING**

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



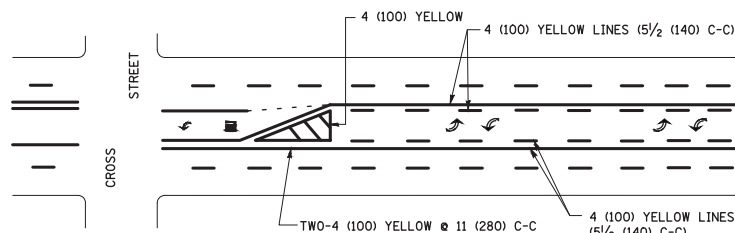
**4' (1.2 m) WIDE MEDIANS ONLY**



FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

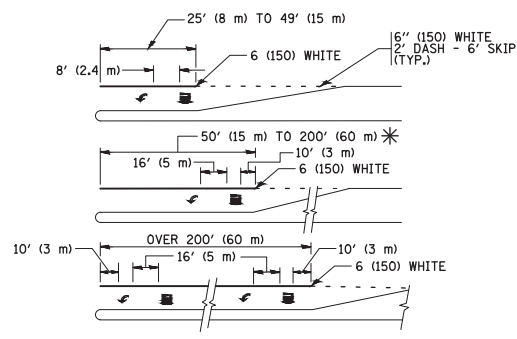
**MEDIANS OVER 4' (1.2 m) WIDE**



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

**MEDIAN WITH TWO-WAY LEFT TURN LANE**

**TYPICAL PAINTED MEDIAN MARKING**

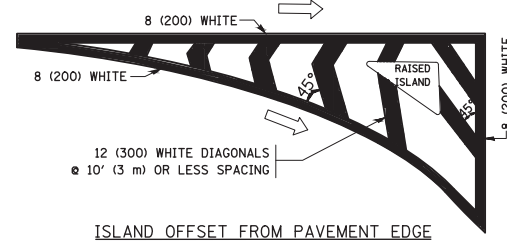


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

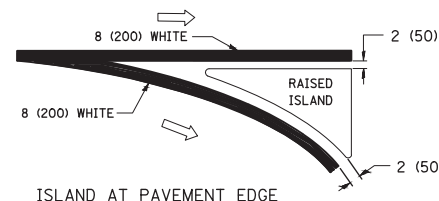
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

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

**TYPICAL TURN LANE MARKING**

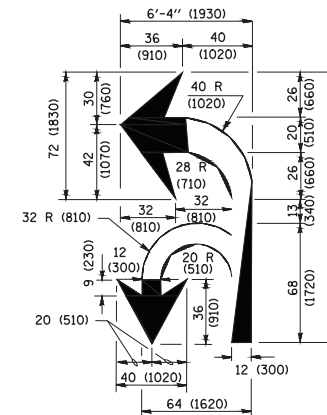


**ISLAND OFFSET FROM PAVEMENT EDGE**

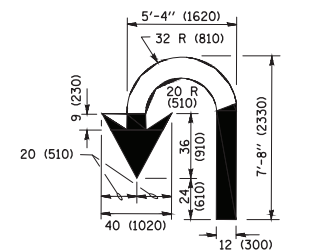


**ISLAND AT PAVEMENT EDGE**

**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 ONE DIRECTION 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.
GORE 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 30MPH (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: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
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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		DRAWN -	REVISED - C. JUCIUS 07-01-13
	PLOT SCALE = 50.000 / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
Default	PLOT DATE = 6/23/2017	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

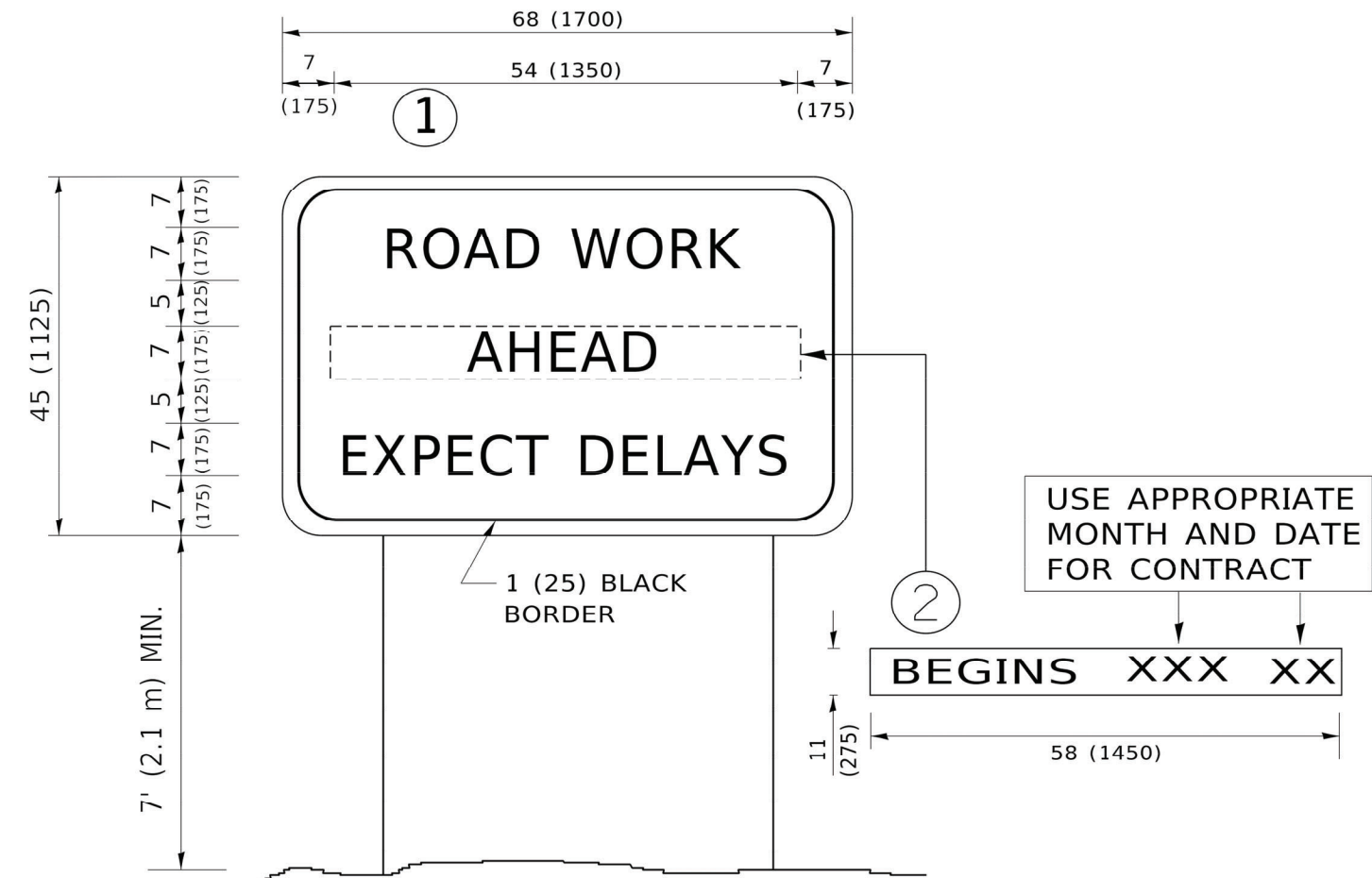
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00209-00-RS		45	32
<b>TC-13</b>			CONTRACT NO. 61H08	
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.

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	DATE -	REVISED - C. JUCIUS 01-31-07

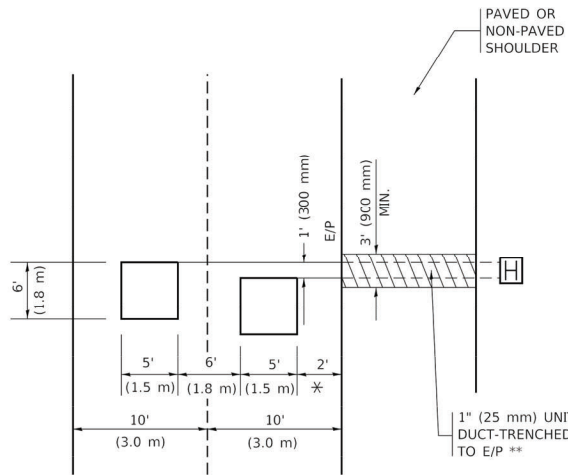
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ARTERIAL ROAD INFORMATION SIGN</b>	
SCALE: NONE	SHEET 1 OF 1 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00209-00-RS		45	33
<b>TC-22</b>		CONTRACT NO. <b>61H08</b>		
ILLINOIS   FED. AID PROJECT				

**LOOPS NEXT TO SHOULDERS**

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

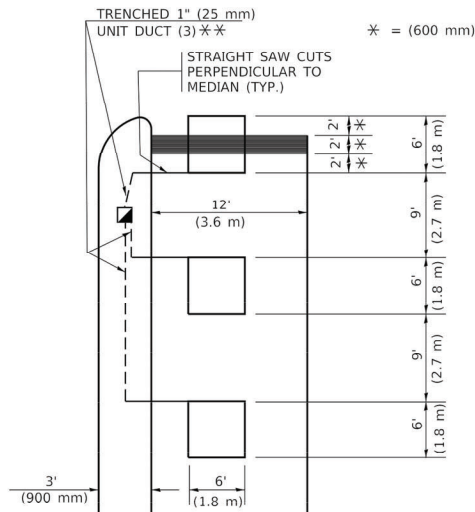


\* = (600 mm)

\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS**  
**VOLUME DENSITY ("FAR OUT" DETECTION)**  
**ON SAME APPROACH**  
**(PROTECTED / PERMITTED LEFT TURN PHASING)**

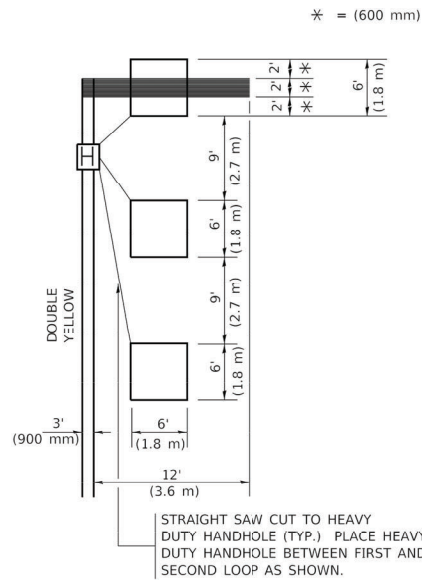
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS**  
**VOLUME DENSITY ("FAR OUT" DETECTION)**  
**ON SAME APPROACH**  
**(PROTECTED / PERMITTED LEFT TURN PHASING)**



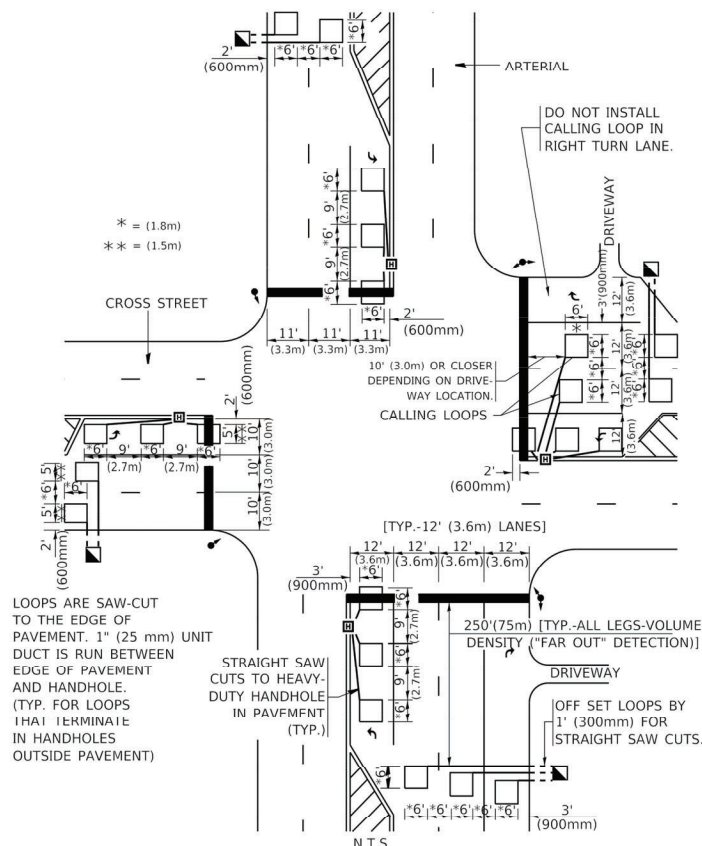
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

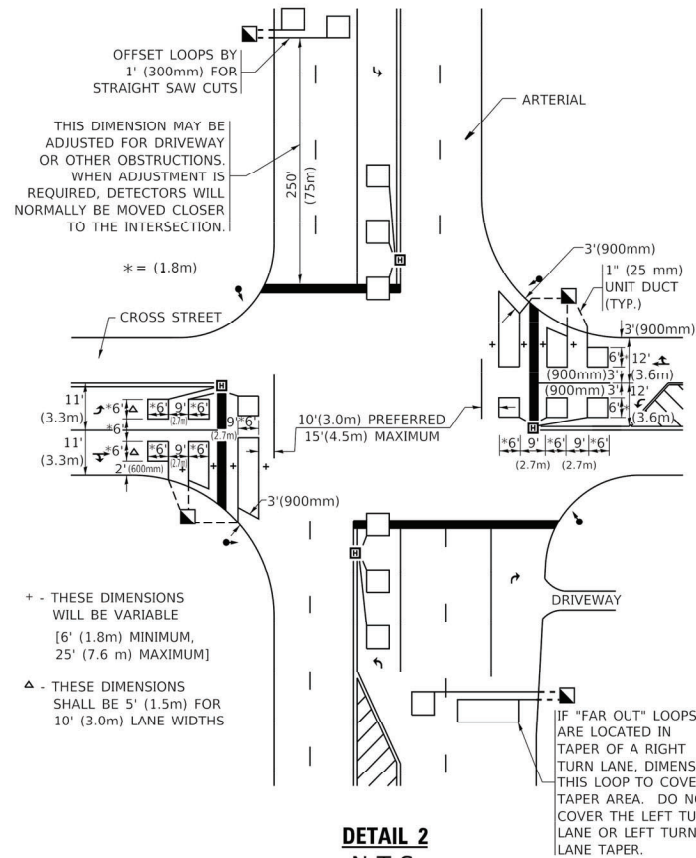
- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- \* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- \* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- \* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- \* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)**  
**CROSS STREET-NON VOLUME DENSITY ("FAR OUT" DETECTION)**



**DETAIL 1**  
N.T.S.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)**  
**CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



**DETAIL 2**  
N.T.S.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/4/2019	CHECKED - R.K.F.	REVISED -
	DATE -	REVISED -

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

**DISTRICT 1 - DETECTOR LOOP INSTALLATION**  
**DETAILS FOR ROADWAY RESURFACING**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00209-00-RS		45	34
TS-07			CONTRACT NO. 61H08	
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								

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	DRAWN - IP	REVISED -	
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PLOT DATE = 3/4/2019	DATE - 9/29/2016	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

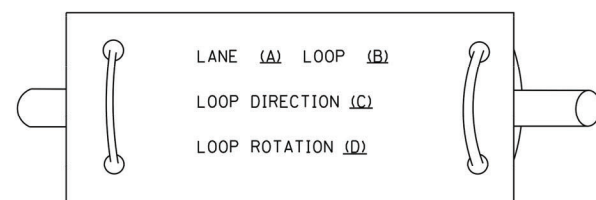
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TS-05</b>			CONTRACT NO. 61H08	
ILLINOIS   FED. AID PROJECT				

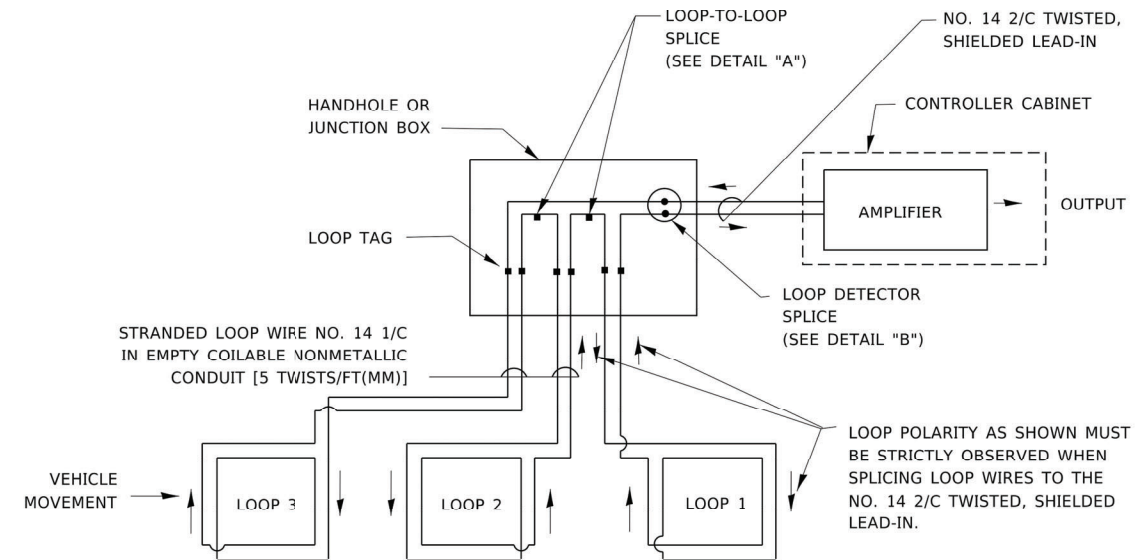
**LOOP DETECTOR NOTES**

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**

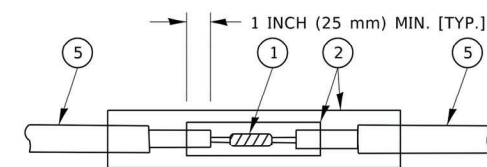


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

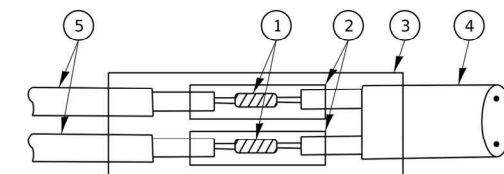


**DETECTOR LOOP WIRING SCHEMATIC**

- 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.

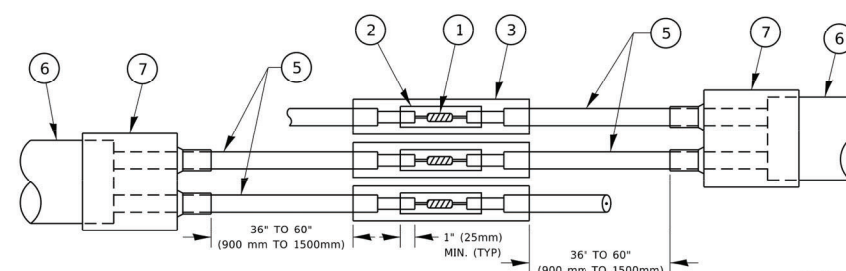


DETAIL "A"  
LOOP-TO-LOOP SPLICE



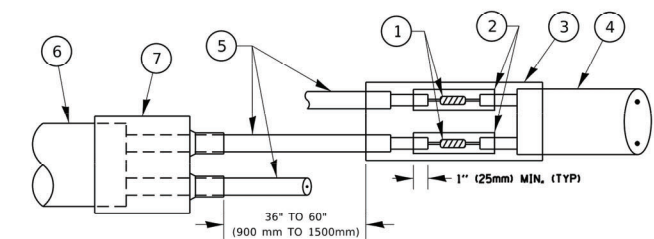
DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE

**PREFORMED LOOP**



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**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. PREFORMED LOOP
- 6 XL POLYOLEFIN 2 CONDUCTOR
- 7 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

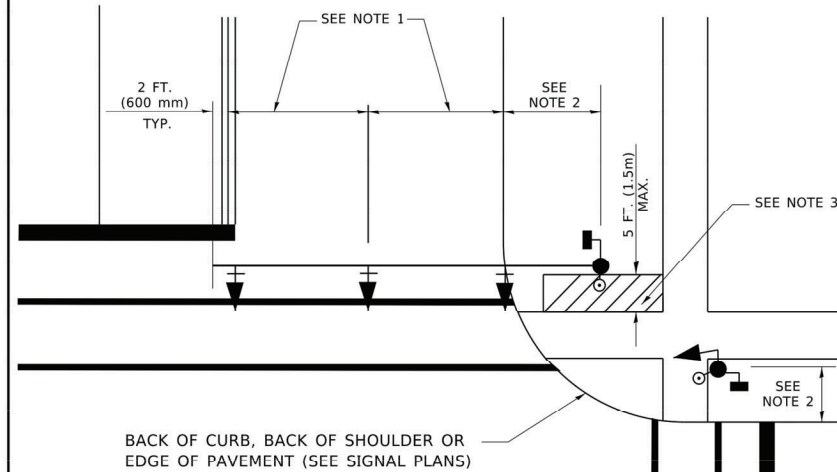
**DISTRICT ONE  
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00209-00-RS		45	36
TS-05		CONTRACT NO. 61H08		
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**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST**

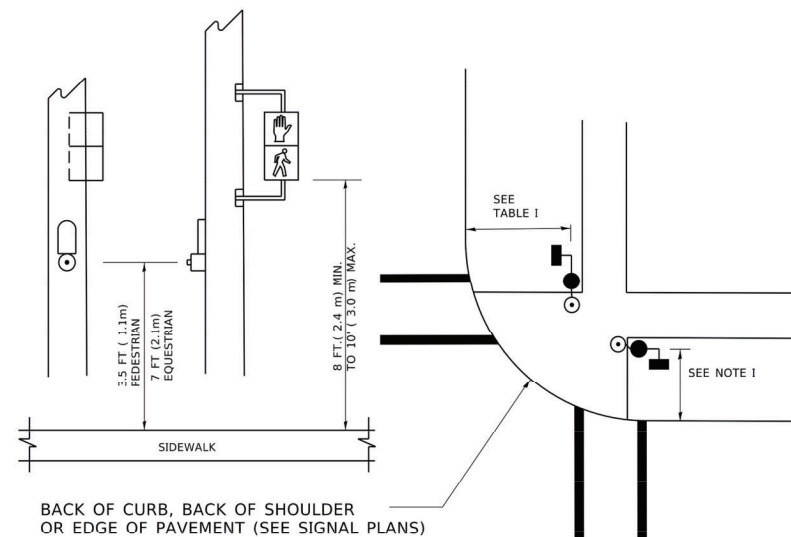
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



**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."

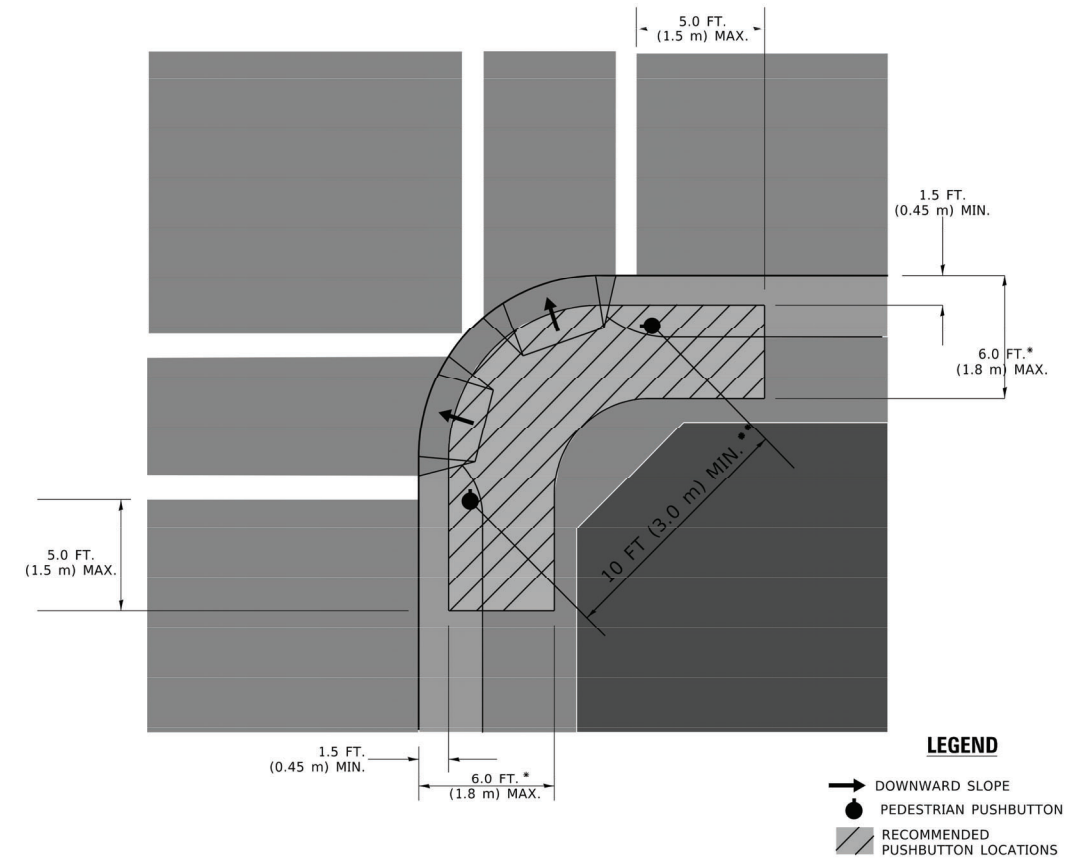
**PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST**



**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.

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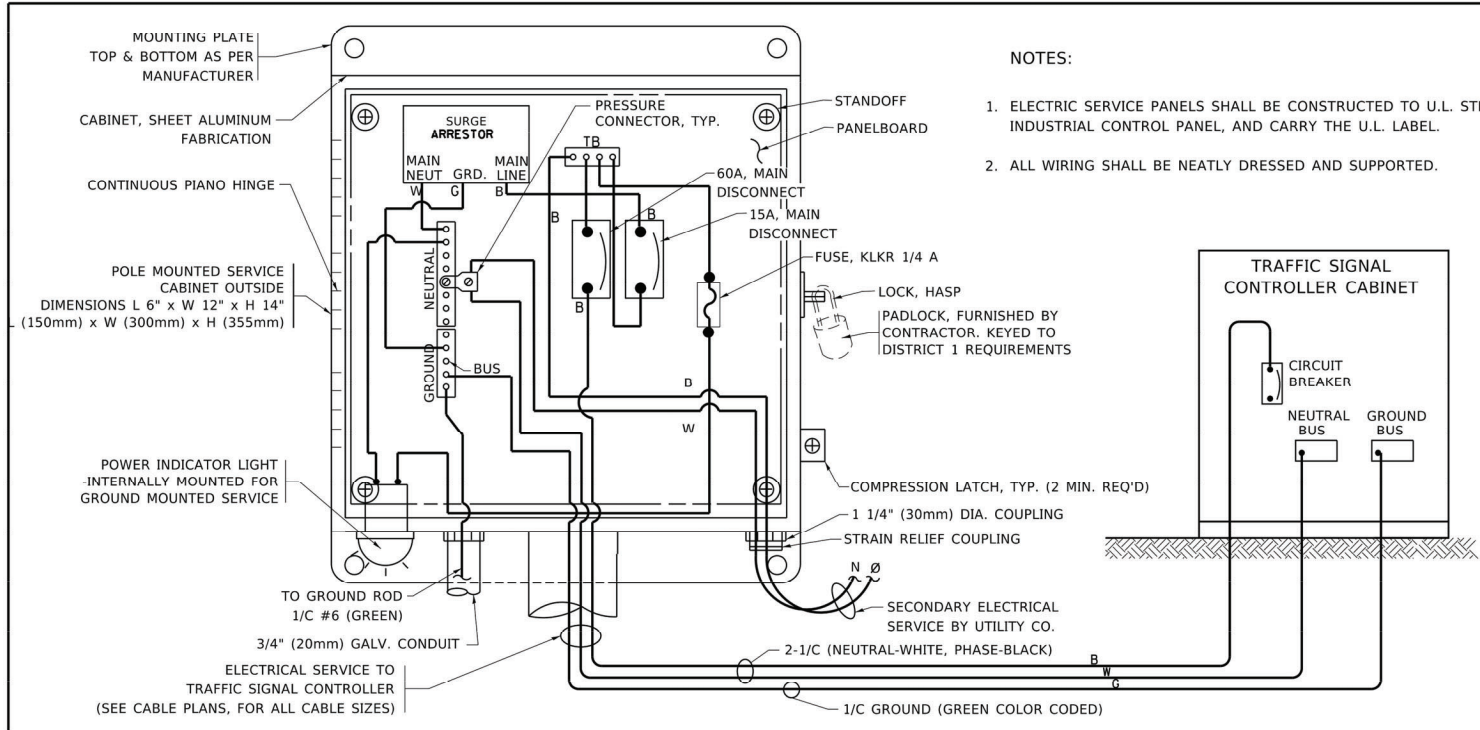
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

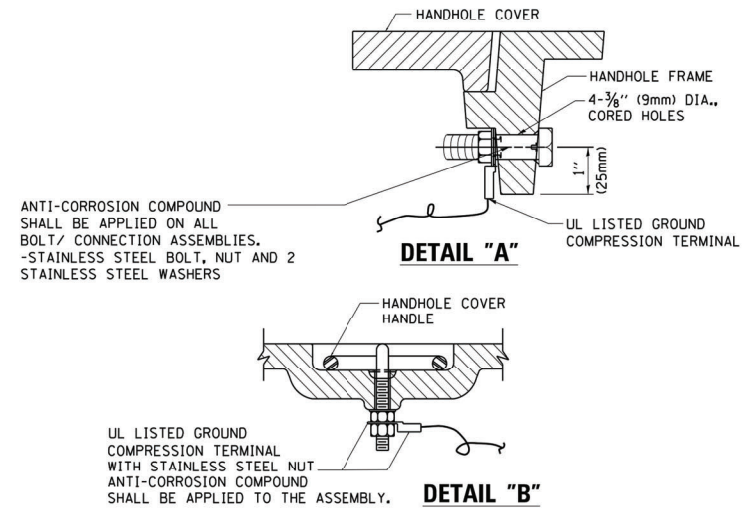
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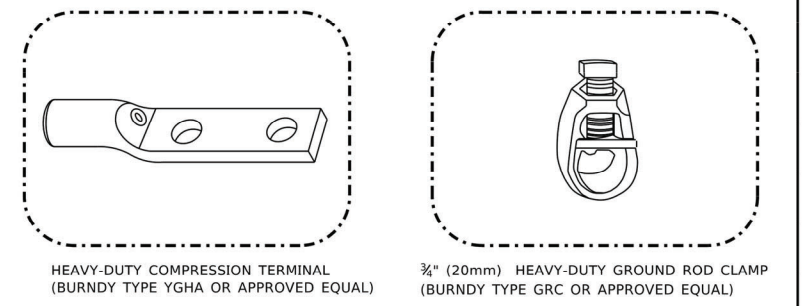
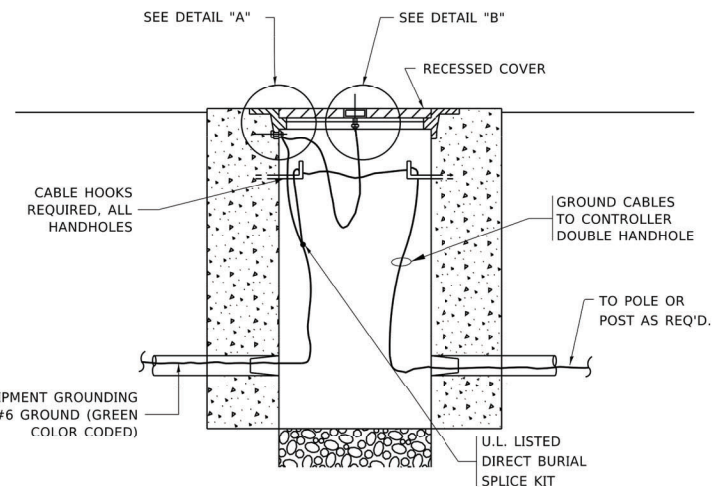
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TS-05			CONTRACT NO. 61H08	
ILLINOIS FED. AID PROJECT				



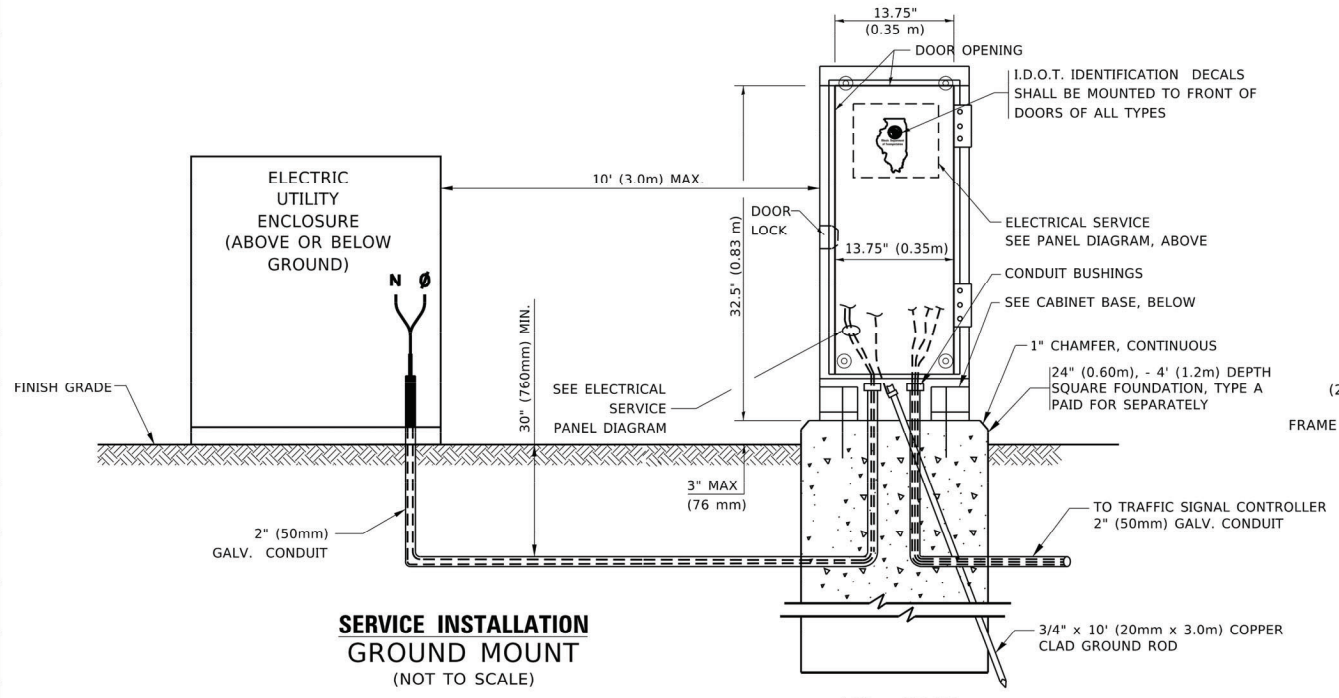
**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)



- 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.

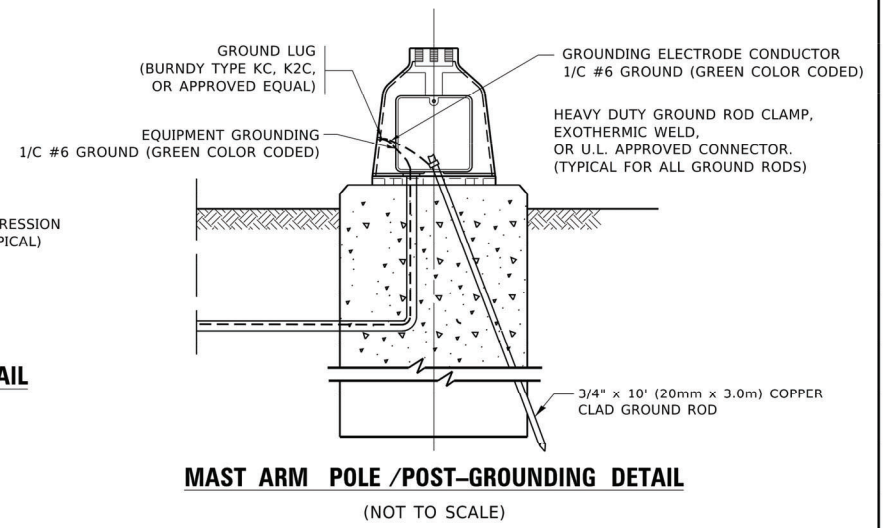
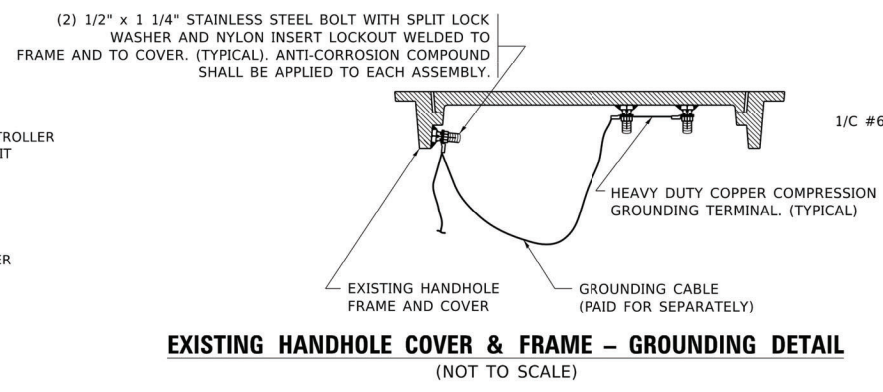
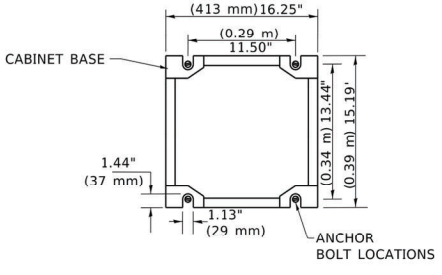


- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, U.L. APPROVED.
  - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



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

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



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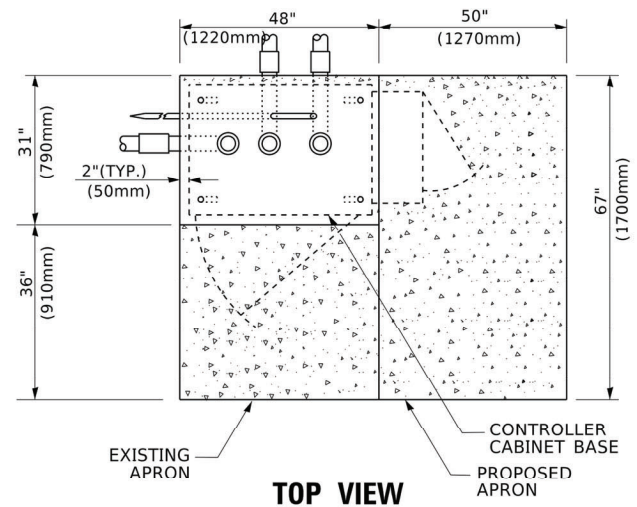
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

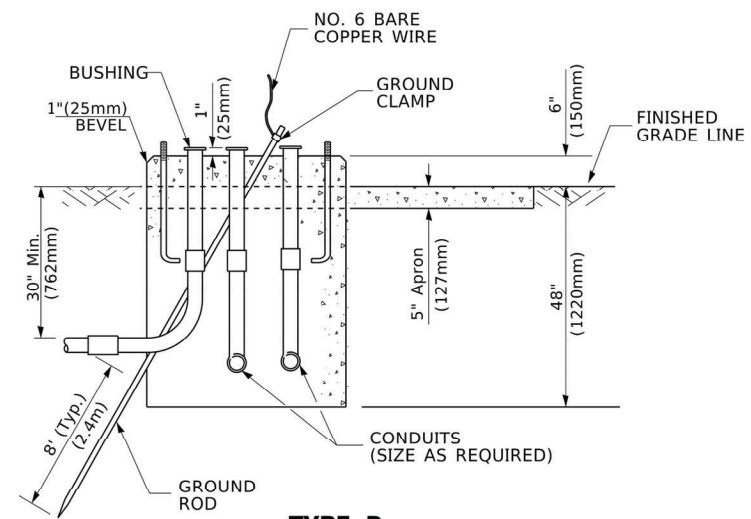
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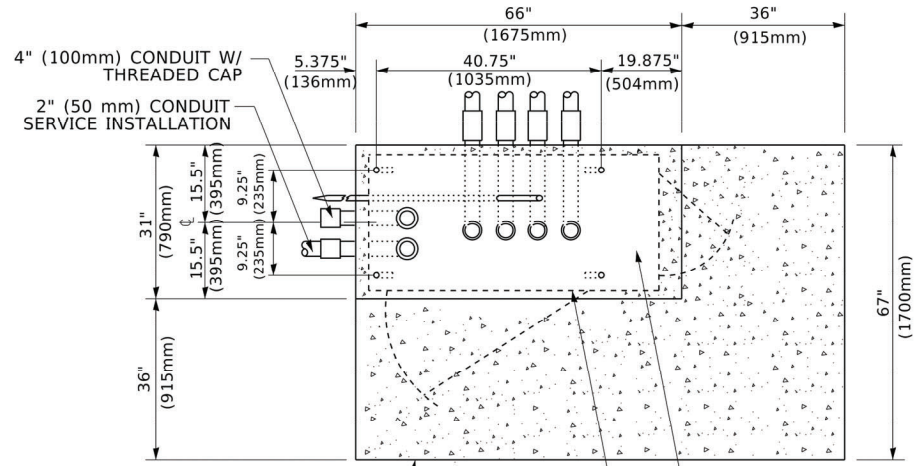
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	17-00209-00-RS		45	38
	<b>TS-05</b>		CONTRACT NO. 61H08	
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**TOP VIEW**

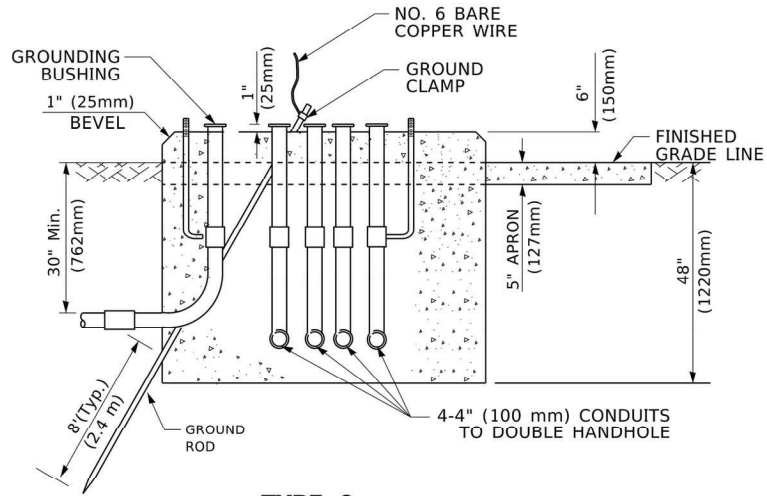


**TYPE D FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET**

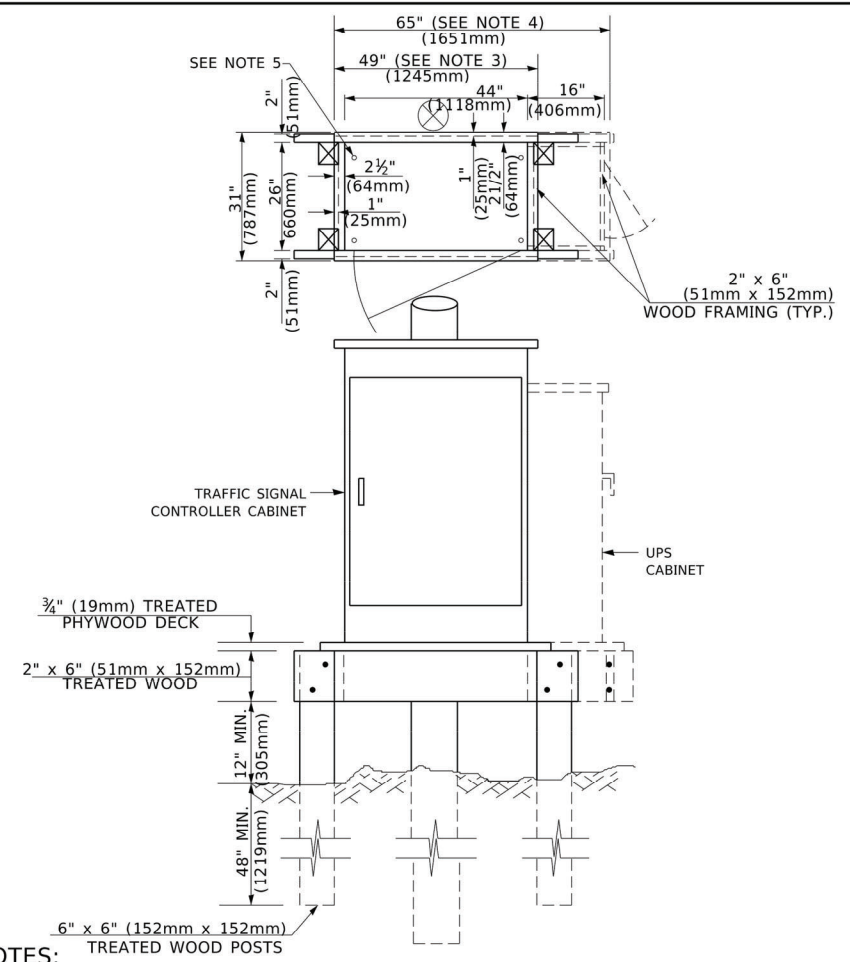


**TOP VIEW**

**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:**
- 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
  - 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.
  - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
  - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
  - 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.
  - 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)
	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)
	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- NOTES:**
- 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.
  - Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
  - Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
  - For mast arm assemblies with dual arms refer to state standard 878001..

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

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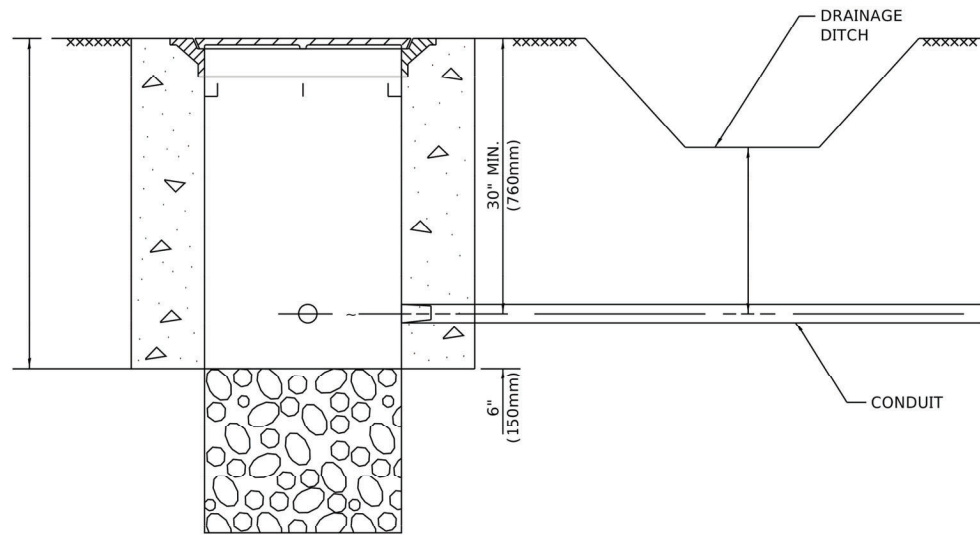
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00209-00-RS		45	39
TS-05			CONTRACT NO. 61H08	
ILLINOIS / FED. AID PROJECT				

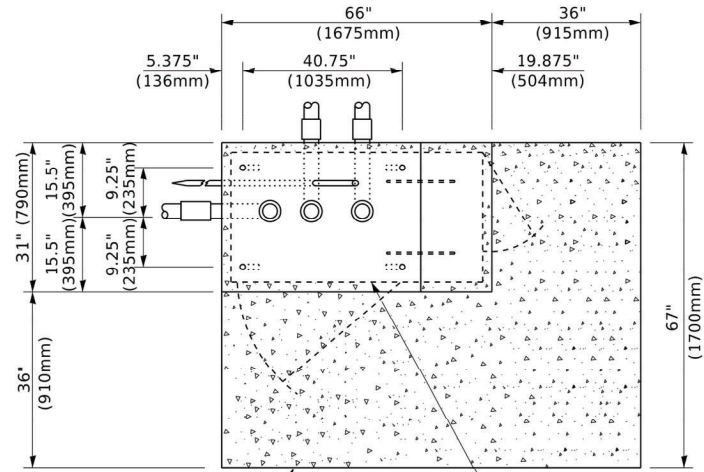
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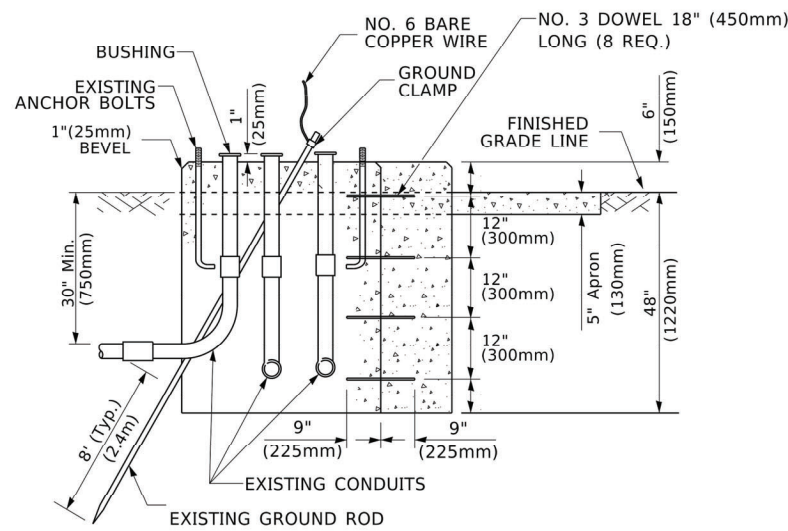
**NOTES:**

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)



**TOP VIEW**  
(NOT TO SCALE)

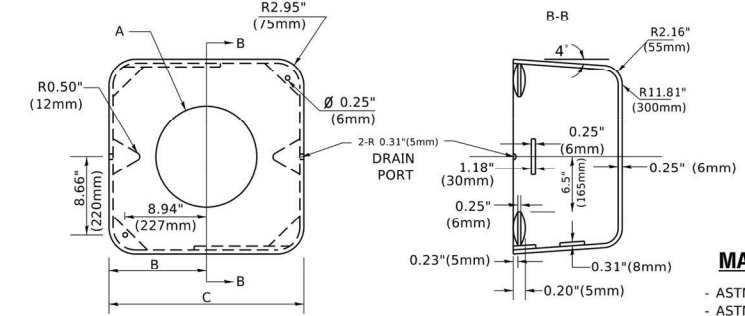


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

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

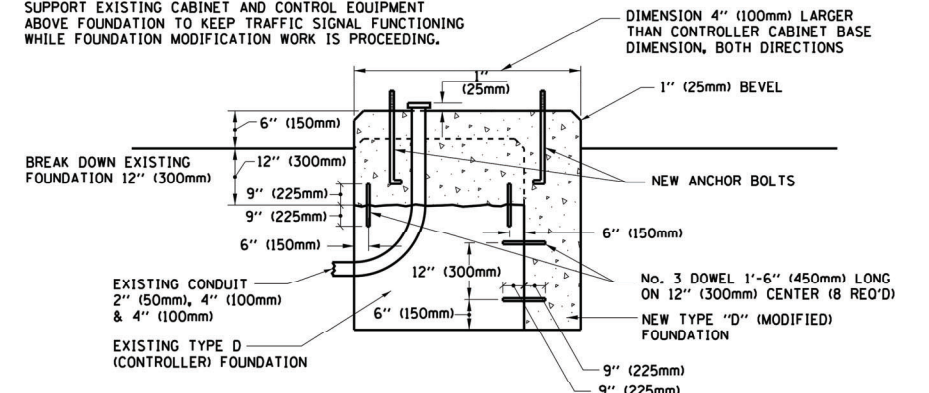
**SHROUD**

**NOTES:**

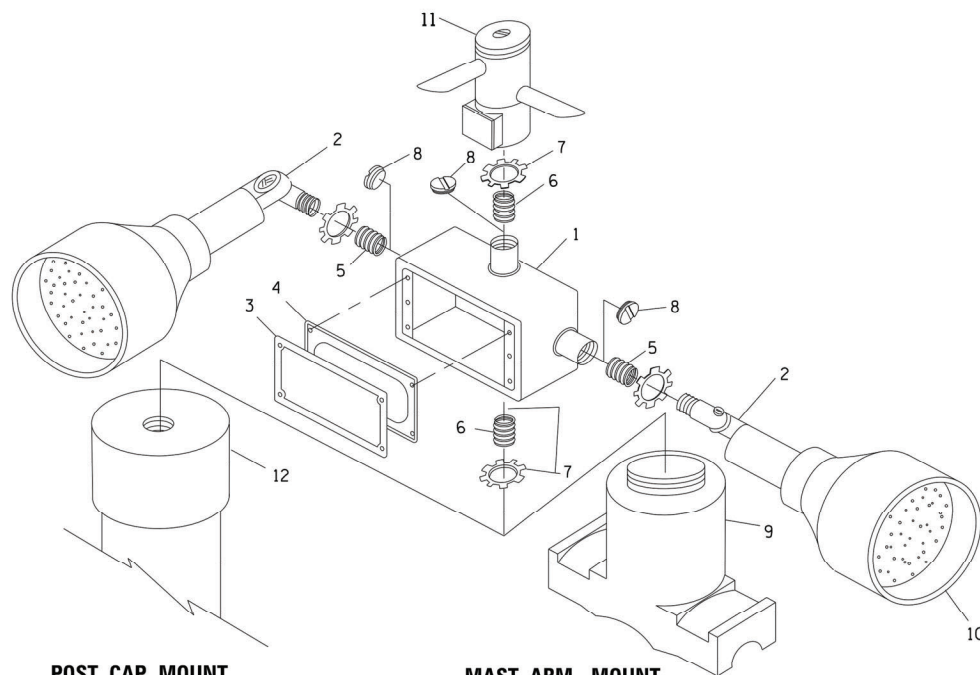
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

**NOTE:**

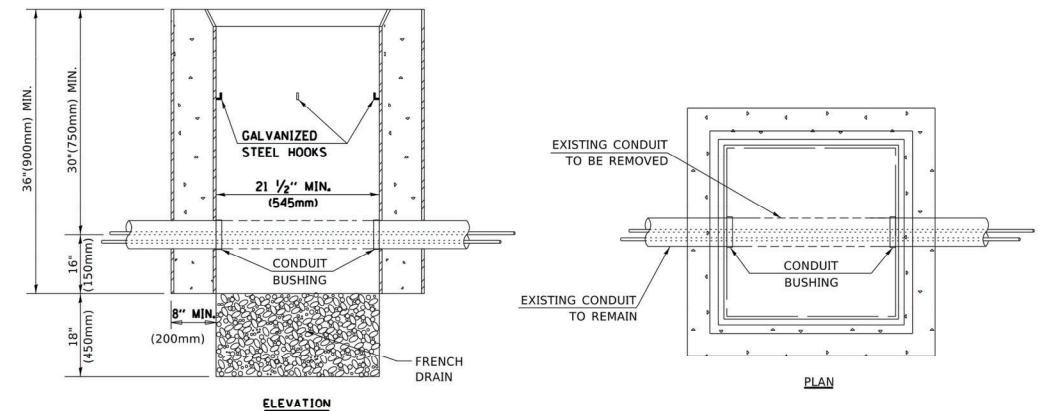
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



**MODIFY EXISTING TYPE "D" FOUNDATION**



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



**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**

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	DATE -	REVISED -

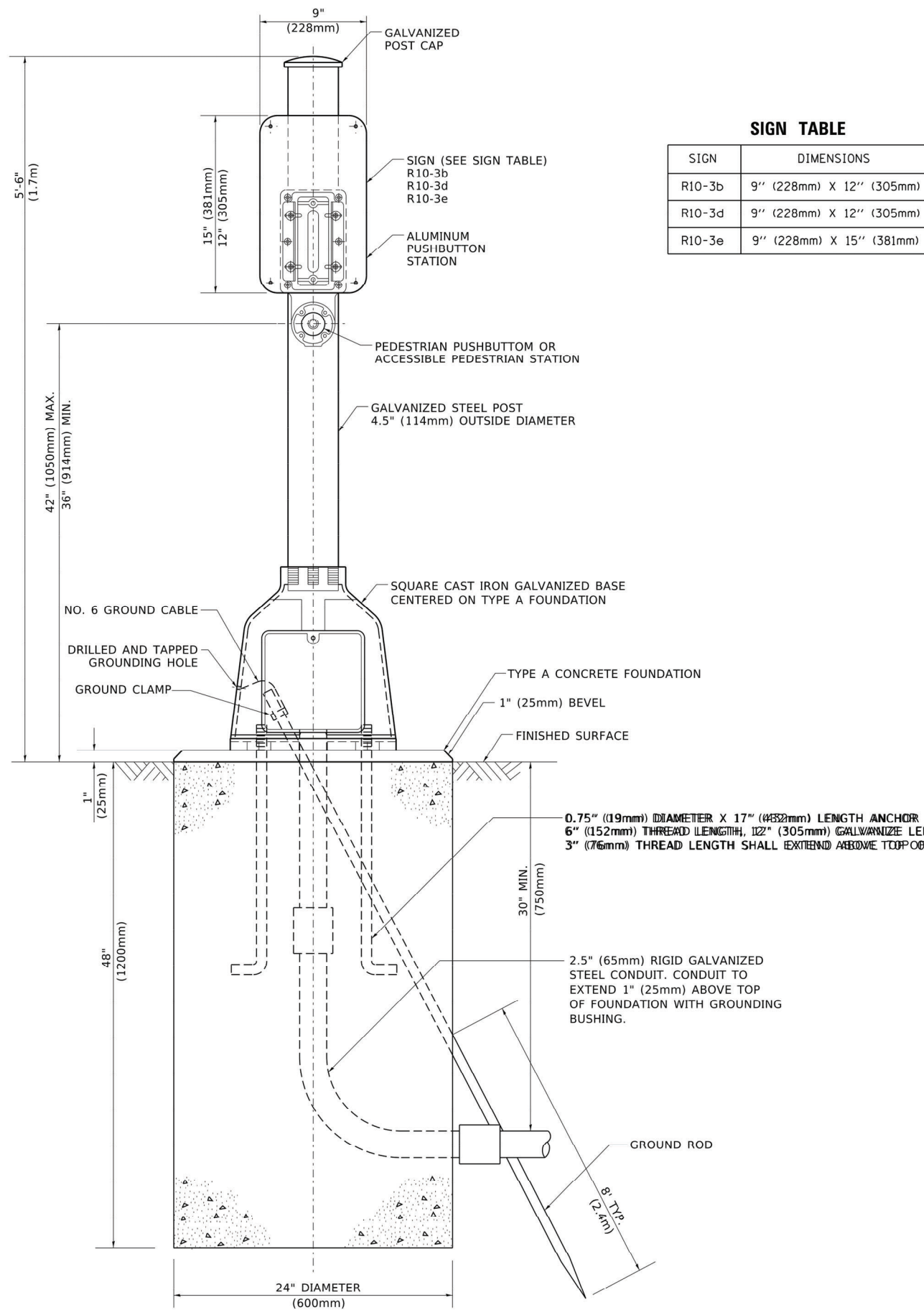
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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

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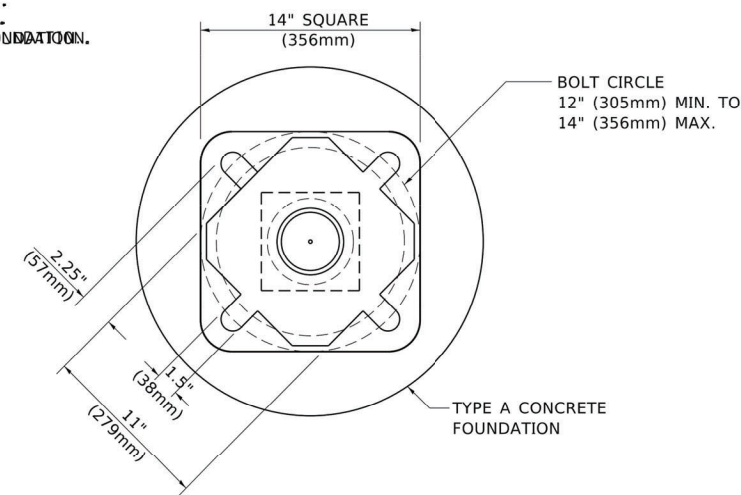
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	17-00209-00-RS		45	40
	TS-05		CONTRACT NO. 61H08	
ILLINOIS / FED. AID PROJECT				





**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



**BOLT PATTERN**

**PEDESTRIAN PUSH BUTTON POST, TYPE A**

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

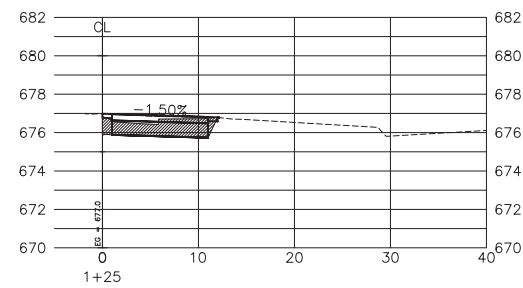
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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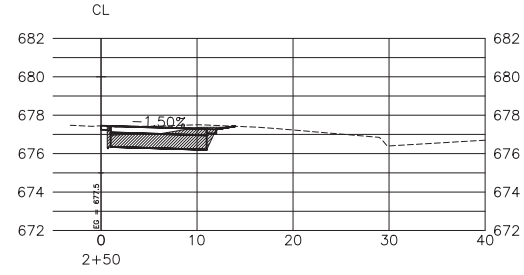
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TS-05			CONTRACT NO. 61H08	
ILLINOIS FED. AID PROJECT				

PLAN	REVISIONS	DATE	BY
NO.	NO.		
NOTE BOOK	GRADES CHECKED		
	B.M. NOTED		
	STRUCTURE NOTATIONS CH'KD		

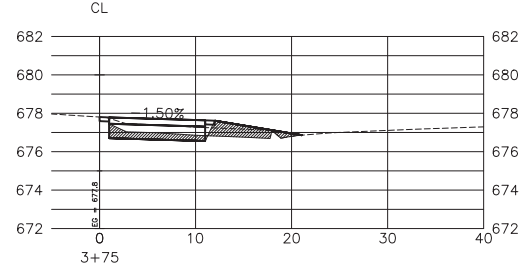
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NO.	NO.		
NOTE BOOK	GRADES CHECKED		
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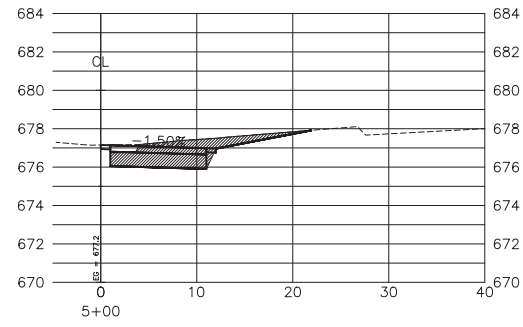
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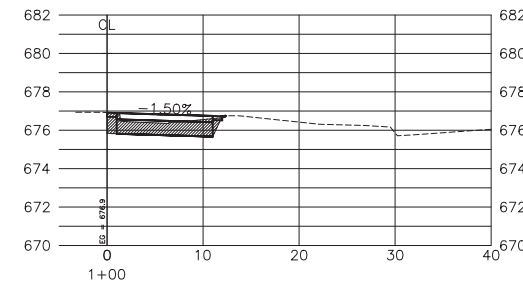
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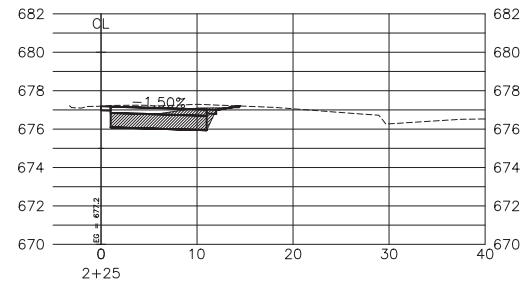
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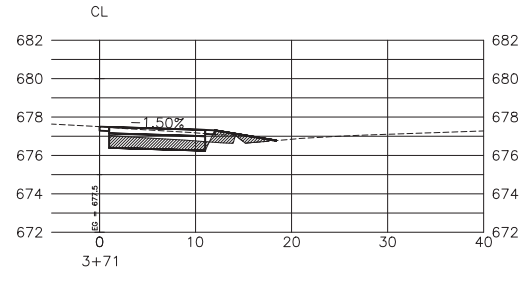
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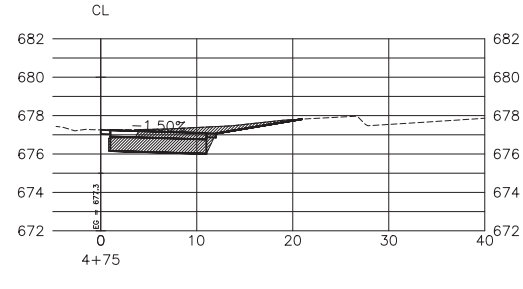
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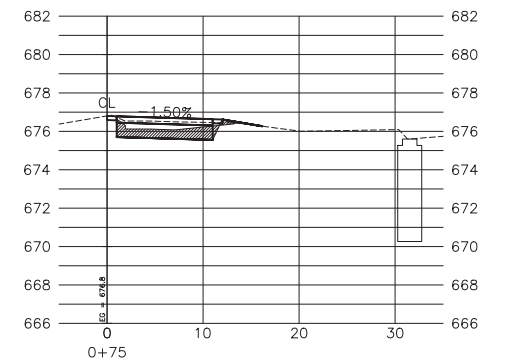
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Fill Area 0.05 S.F.



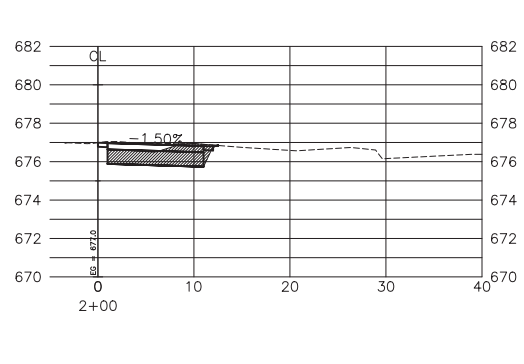
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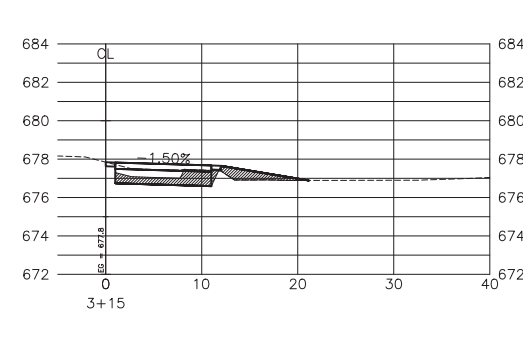
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Fill Area 0.00 S.F.



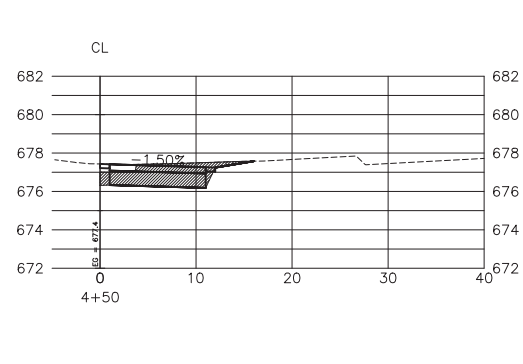
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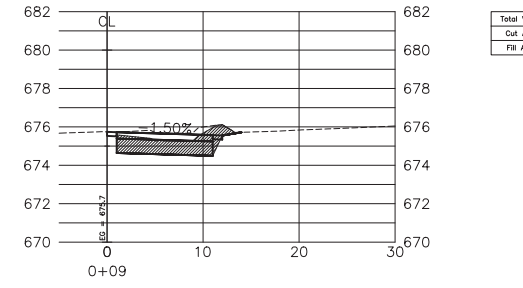
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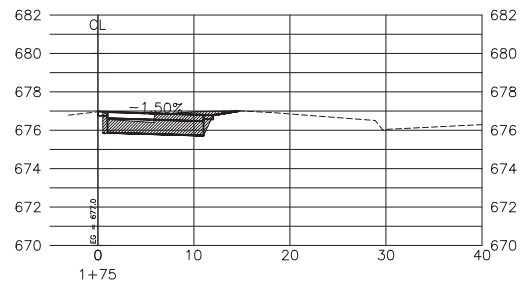
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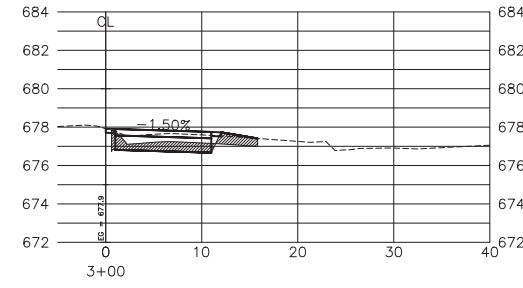
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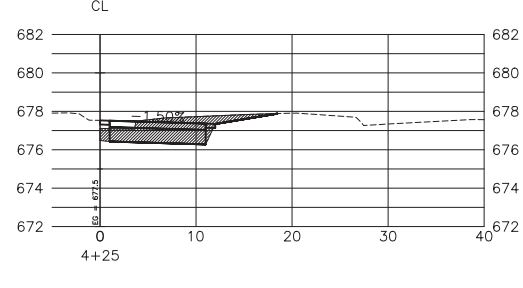
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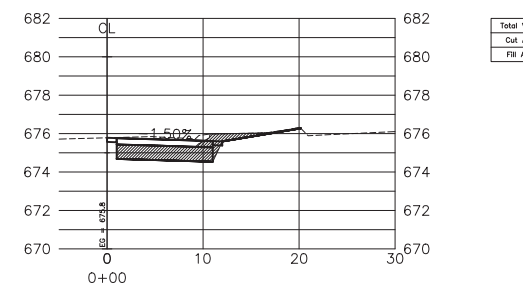
Total Volume at Station 1+75
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Fill Area 0.00 S.F.



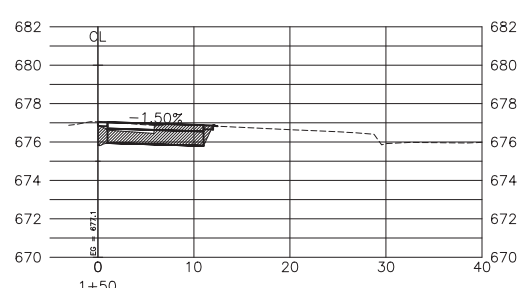
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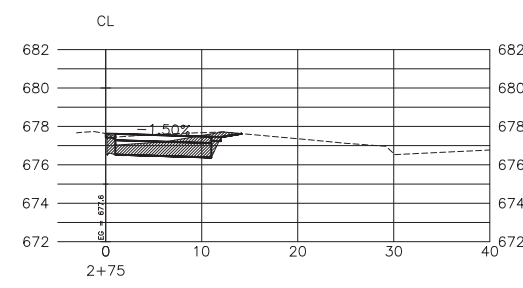
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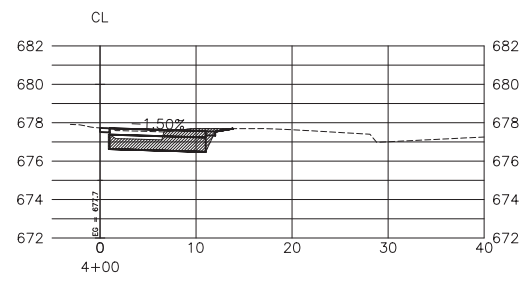
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Fill Area 0.00 S.F.



Total Volume at Station 1+50
Cut Area 9.82 S.F.
Fill Area 0.01 S.F.



Total Volume at Station 2+75
Cut Area 9.79 S.F.
Fill Area 0.00 S.F.



Total Volume at Station 4+00
Cut Area 9.05 S.F.
Fill Area 0.00 S.F.

T:\1 0400.dwg 2/22/21 Kensington Road.dwg

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LAYOUT NAME = BIKE PATH CROSS SECTION 1 - CH  
PLOT SCALE = 20.00' / IN.  
PLOT DATE = Feb 11, 2021-12:18pm

DESIGNED - NJ  
CHECKED - MP  
DATE - 11-03-2020

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

KENSINGTON ROAD BIKE PATH  
CROSS SECTIONS

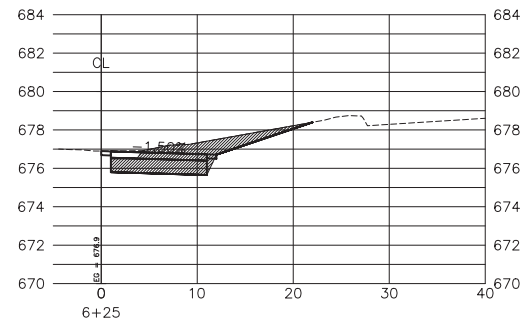
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SHEET NO. 42 OF 45 SHEETS  
STA. 0+00 TO STA. 5+00

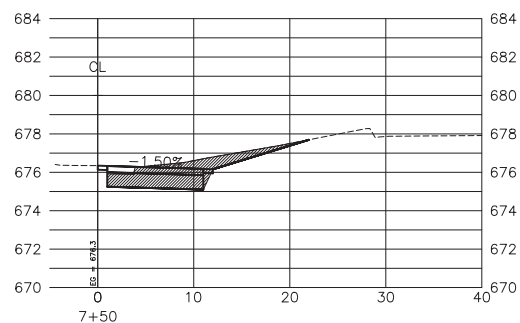
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	17-00209-00-RS	COOK	45	42
CONTRACT NO. 61H08			ILLINOIS FED. AID PROJECT	

PLAN	DATE	BY
REVISIONS		
GRADES CHECKED		
NOTE BOOK		
NO.		
STRUCTURE NOTATIONS CHD		

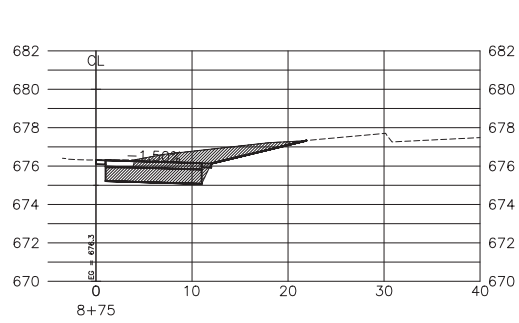
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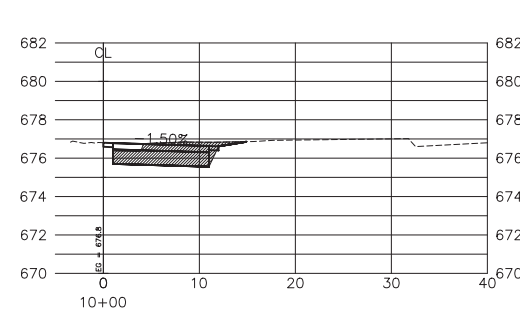
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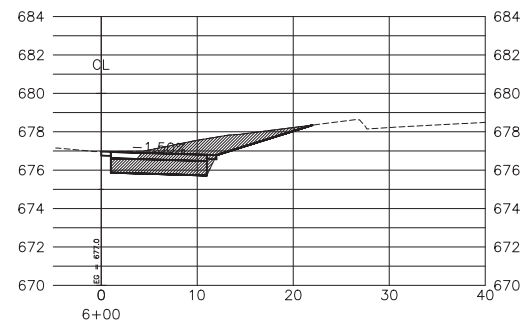
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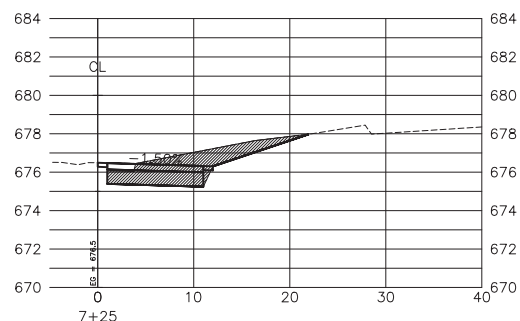
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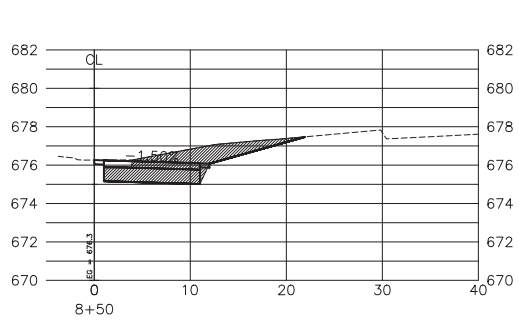
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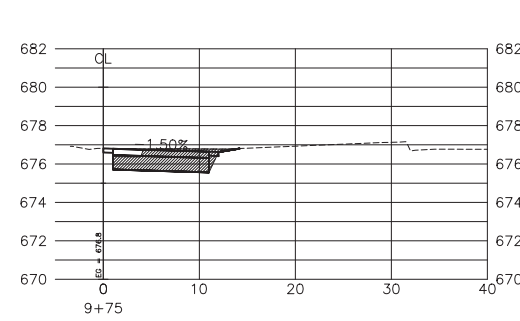
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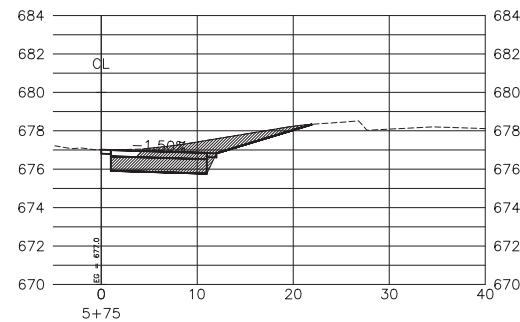
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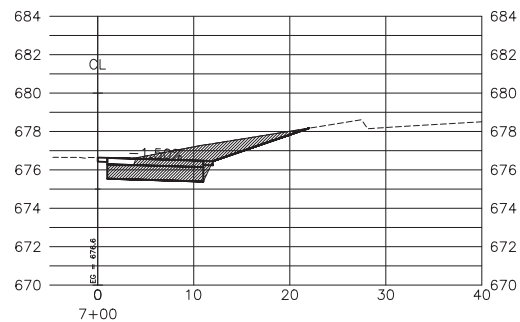
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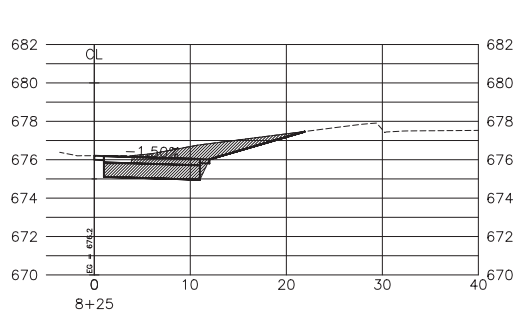
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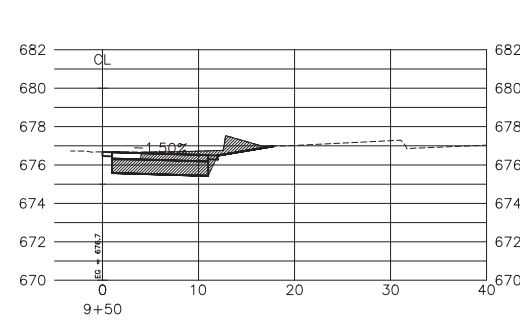
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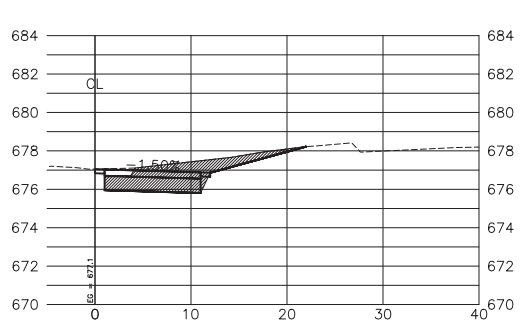
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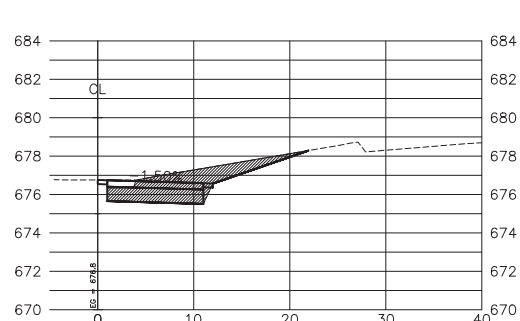
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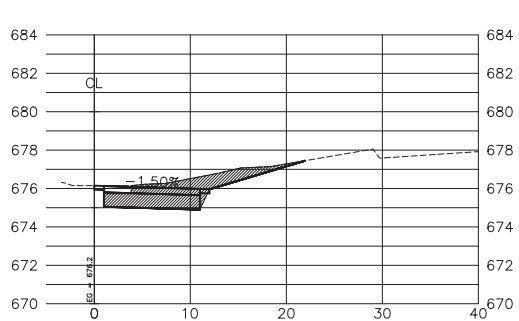
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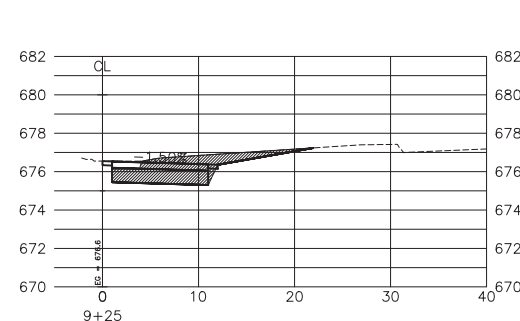
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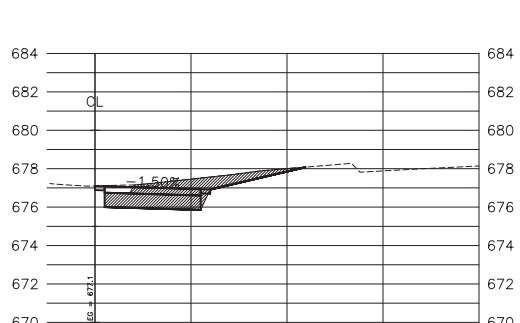
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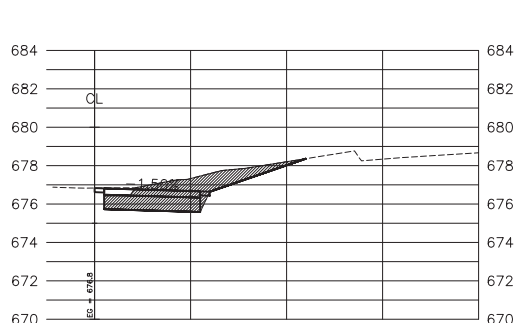
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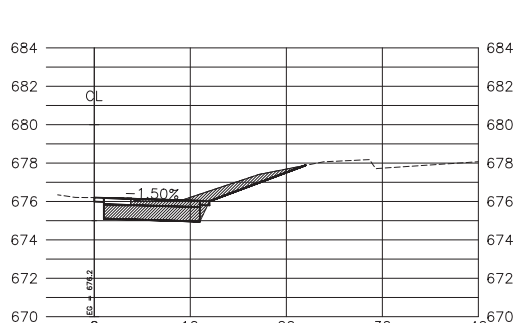
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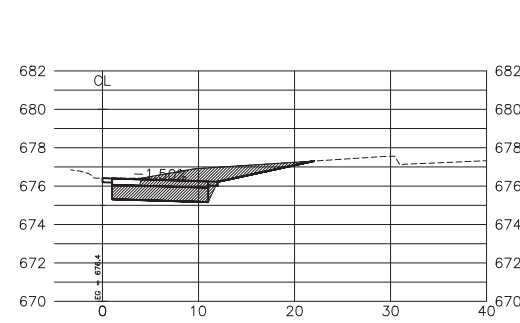
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Total Volume at Station 6+50
Cut Area 18.85 S.F.
Fill Area 0.00 S.F.



Total Volume at Station 7+75
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Fill Area 0.00 S.F.



Total Volume at Station 9+00
Cut Area 17.59 S.F.
Fill Area 0.00 S.F.

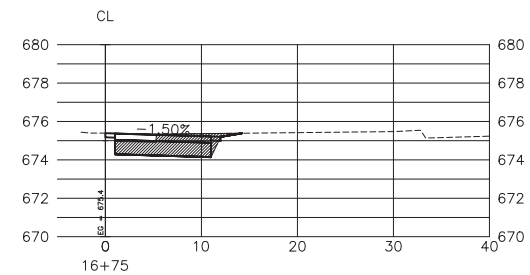
T:\1 0400.dwg 2/22/21 Kensington Road.dwg

FILE NAME = 2021 KENSINGTON RD.dwg	USER NAME = chomuth	DESIGNED - NJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	KENSINGTON ROAD BIKE PATH CROSS SECTIONS	HORIZ. 1"=10' SCALE: VERT. 1"=5'	SHEET NO. 43 OF 45 SHEETS	STA. 5+25 TO STA. 10+00	F.A.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	LAYOUT NAME = BIKE PATH CROSS SECTION 1 (2)CH	CHECKED - MP	REVISED -							17-00209-00-RS	COOK	45	43
	PLOT SCALE = 20.00' / IN.	DATE - 11-03-2020	REVISED -										
	PLOT DATE = Feb 11, 2021-12:22pm		REVISED -										CONTRACT NO. 61H08
									FED ROAD DIST NO. 1 ILLINOIS FED. AID PROJECT				

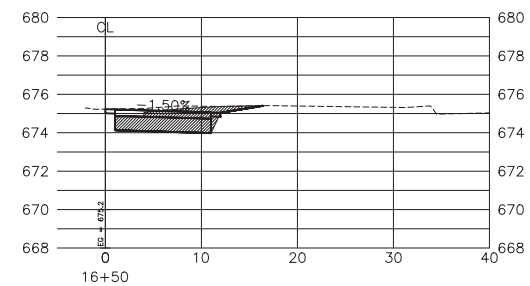


PLAN	DESIGNED	BY	DATE
	CHECKED		
NOTE BOOK	GRADES CHECKED		
	BY		
NO.	STRUCTURE		
	NOTATIONS		

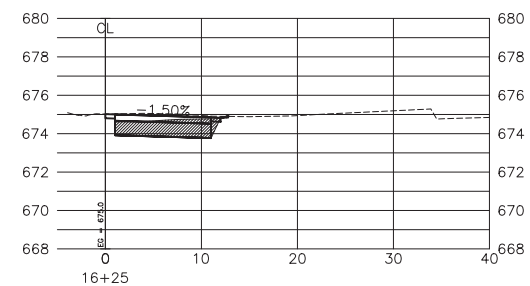
PROFILE	DESIGNED	BY	DATE
	CHECKED		
NOTE BOOK	GRADES CHECKED		
	BY		
NO.	STRUCTURE		
	NOTATIONS		



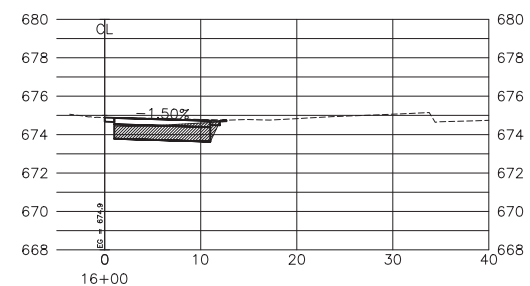
Total Volume at Station 16+75	
Cut Area	10.50 S.F.
Fill Area	0.00 S.F.



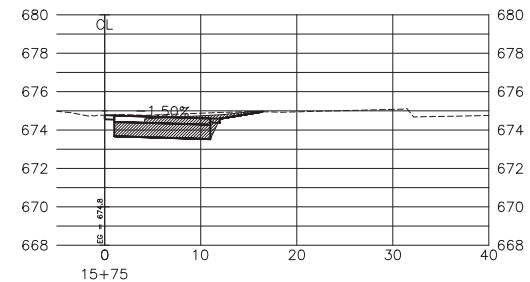
Total Volume at Station 16+50	
Cut Area	12.02 S.F.
Fill Area	0.00 S.F.



Total Volume at Station 16+25	
Cut Area	8.97 S.F.
Fill Area	0.05 S.F.



Total Volume at Station 16+00	
Cut Area	8.37 S.F.
Fill Area	0.04 S.F.



Total Volume at Station 15+75	
Cut Area	11.05 S.F.
Fill Area	0.00 S.F.

T:\1 0400.dwg 2/21/2021 Kensington Road.dwg

FILE NAME =	USER NAME = chomuth	DESIGNED - NJ	REVISED -
2021 KENSINGTON RD.dwg	LAYOUT NAME = BIKE PATH CROSS	SECTION 4 - CH	REVISED -
	PLOT SCALE = 20.00' / IN.	CHECKED - MP	REVISED -
	PLOT DATE = Feb 11, 2021-12:26pm	DATE - 11-03-2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

KENSINGTON ROAD BIKE PATH CROSS SECTIONS		HORIZ. 1"=10'	SCALE: VERT. 1"=5'	SHEET NO. 45 OF 45 SHEETS	STA. 15+75 TO STA. 16+75
	17-00209-00-RS	COOK	45	45	
CONTRACT NO. 61H08					
FED. ROAD DIST NO. 1 ILLINOIS FED. AID PROJECT					