

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3821	15-00112-00-RS	DUPAGE	28	1
		ILLINOIS	CONTRACT NO. 61D50	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
**PLANS FOR PROPOSED  
 FEDERAL AID HIGHWAY**

FAU ROUTE 3821 (ORCHARD ROAD)  
 PLAMONDON ROAD TO BUTTERFIELD ROAD  
 RESURFACING  
 SECTION: 15-00112-00-RS  
 PROJECT: M-4003(653)  
 CITY OF WHEATON  
 DUPAGE COUNTY  
 JOB NO: C-91-188-16



LOCATION OF SECTION INDICATED THIS: - -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

APPROVED December 08, 2016  
  
 CITY OF WHEATON, DIRECTOR OF ENGINEERING

PASSED December 28, 2016  
  
 DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW December 28, 2016  
  
 REGIONAL ENGINEER

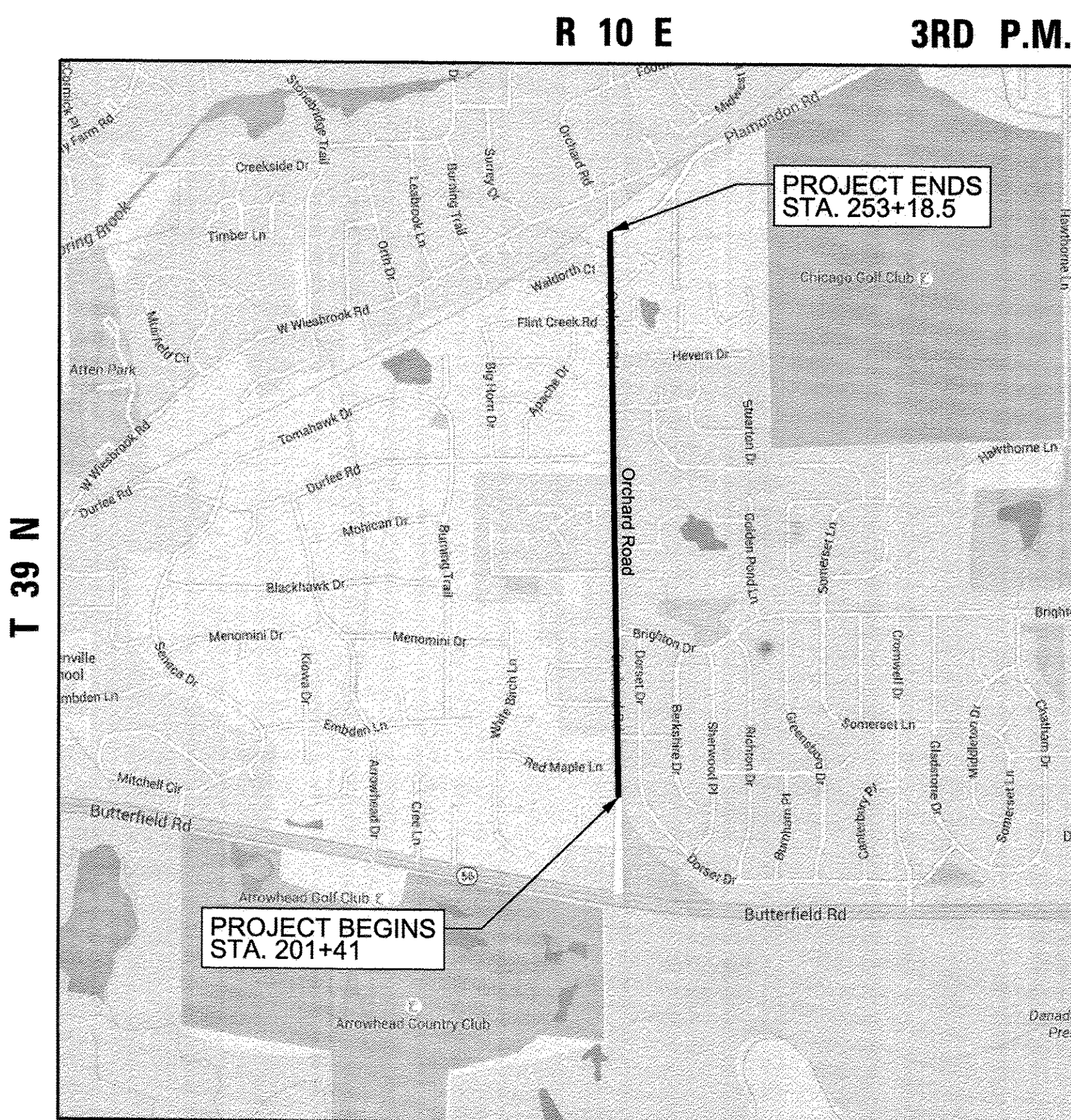
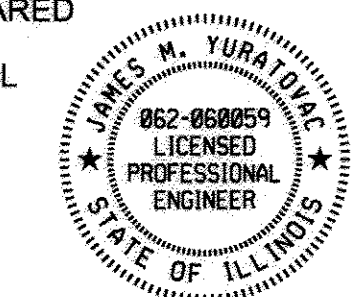
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 OF THE STATE OF ILLINOIS**

PROFESSIONAL ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THIS SUBMISSION WAS PREPARED UNDER MY PERSONAL DIRECTION. THIS TECHNICAL SUBMISSION IS INTENDED TO BE USED AS AN INTEGRAL PART OF AND IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.

DATED THIS 5th DAY OF December, 2016

JAMES M. YURATOVAC  
 ILLINOIS REG. PROF. ENGINEER NO. 062-060059 EXPIRATION DATE 11-30-2017

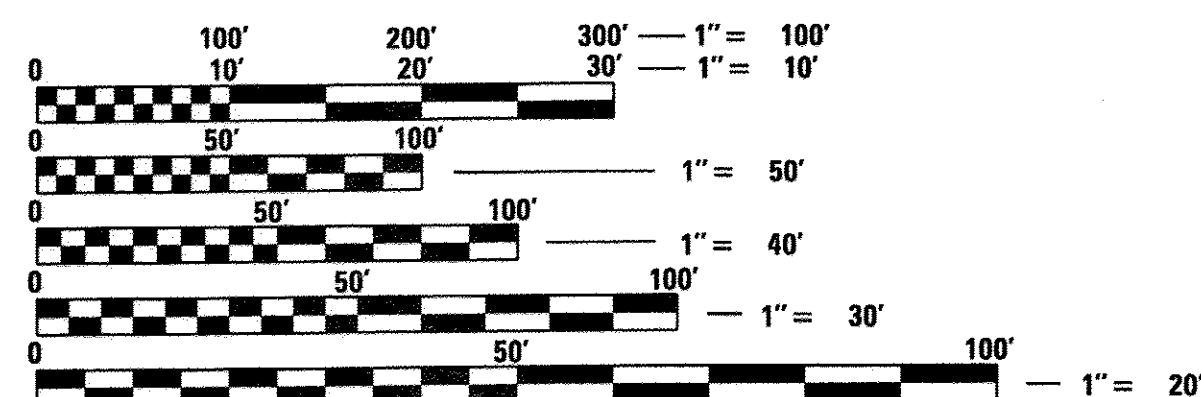


MILTON TOWNSHIP  
**LOCATION MAP**

ORCHARD ROAD GROSS LENGTH = 5,177 FT. = 0.98 MILES  
 ORCHARD ROAD NET LENGTH = 5,177 FT. = 0.98 MILES

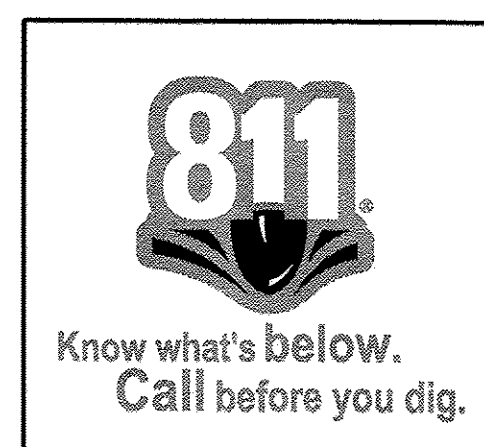
**ORCHARD ROAD**

DESIGN DESIGNATION: MAJOR COLLECTOR  
 SPEED LIMIT = 35 MPH  
 TRAFFIC = 9,000 ADT (2010)



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



PROJECT MANAGER: JIM YURATOVAC

CONTRACT NO. 61D50

PROGRAM AND OFFICE ENGINEER: CHARLES RIDDLE, P.E. (847) 705-4406, SCHAUMBURG, IL

**GENERAL NOTES:**

- ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, JANUARY 1, 2016.
- ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, THEIR AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- THE CONTRACTOR SHALL COORDINATE PAVING OPERATIONS FOR BOTH HMA LEVEL BINDER AND SURFACE COURSES SO THAT THE LONGITUDINAL JOINS ARE CLOSED AND COMPACTED AT THE END OF EACH DAY. PAVING OPERATIONS SHALL BE SCHEDULED SO THAT ADJACENT LANES ARE PAVED IN THE SAME DIRECTION AS THE INITIAL LANE MINIMIZING THE TIME THE EDGE OF A PAVEMENT MAT IS ALLOWED TO COOL.
- THE CONTRACTOR SHALL USE 2 CHANGEABLE MESSAGE SIGNS AT LOCATIONS TO BE DETERMINED BY THE ENGINEER FOR A PERIOD FROM ONE WEEK PRIOR TO THE START OF CONSTRUCTION TO THE CONCLUSION OF THE PROJECT.
- THE CONTRACTOR SHALL ENSURE ALL WATER SYSTEM VALVES, VALVE VAULTS, AND SANITARY SEWER MANHOLES REMAIN READILY ACCESSIBLE FOR EMERGENCY OPERATIONS. THE LOCATIONS OF ALL WATER AND SANITARY FACILITIES SHALL BE MARKED AND READILY VISIBLE AT ALL TIMES.
- THE INDISCRIMINATE USE OF FIRE HYDRANTS, EXISTING STREAMS, CREEKS, WETLANDS, OR PONDS IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK AND DRIVER AS REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER FROM AN APPROVED SOURCE. IF THIS WATER IS FROM A JURISDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE CONTRACTOR PRIOR TO THE USE OF WATER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT DUMPING SITES. HE/SHE SHALL PROVIDE A LIST OF THESE SITES TO THE ENGINEER FOR HIS/HER EXAMINATION AND GENERAL INFORMATION.
- ALL EXCESS MATERIAL (BROKEN CONCRETE, ASPHALT, CULVERT PIPE, WASTE ROADWAY EXCAVATION, AND SURPLUS MATERIALS FROM UTILITY TRENCHES) SHALL BE WASTED OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY.
- ALL PROPERTY AND SURFACE STRUCTURES WITHIN THE RIGHT-OF-WAY SHALL BE PROTECTED DURING CONSTRUCTION OPERATIONS UNLESS THE ENGINEER DIRECTS REMOVAL FOR PURPOSES RELATED TO CONSTRUCTION UNDER THIS CONTRACT. ANY FENCES, POLES, FLAGSTONE, DECORATIVE STONE, SPECIAL LANDSCAPING, OR OTHER MAN MADE SURFACE IMPROVEMENT WHICH IS REMOVED OR DISTURBED BY THE CONTRACTOR SHALL BE RESTORED BY HIM TO ITS ORIGINAL CONDITION AFTER THE CONSTRUCTION ACTIVITIES ARE COMPLETED.
- ALL FRAMES, GRATES, LIDS, FIRE HYDRANTS, AND VALVE BOXES WHICH ARE REMOVED AND ARE TO BE ABANDONED SHALL REMAIN THE PROPERTY OF THE CITY OF WHEATON. ANY OF THESE ITEMS WHICH ARE DAMAGED BY THE CONTRACTOR DURING HANDLING SHALL BE REPLACED BY HIM AT HIS EXPENSE. UPON REMOVAL FROM THEIR WORKING LOCATIONS, THEY ARE TO BE STOCKPILED AT AN ON-SITE LOCATION DETERMINED BY THE ENGINEER WHERE THEY WILL BE PICKED UP BY CITY PERSONNEL AT THE CONCLUSION OF WORK ON THAT STREET.
- WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE AND PUBLIC DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO ACCEPT ALL STORM WATER THAT WILL BE DELIVERED BY THESE DRAINS AND BASINS AND SHALL DISCHARGE THE SAME. IF NECESSARY, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT AND TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF WATER WHICH IS RECEIVED FROM ALL TEMPORARY CONNECTIONS. THESE TEMPORARY FACILITIES SHALL BE MAINTAINED UNTIL ALL PERMANENT CONNECTIONS ARE COMPLETED.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE FOLLOWED WHEN EXISTING CURB AND GUTTER IS REMOVED AND EXISTING DRAINAGE STRUCTURES ARE TO REMAIN ACTIVE. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE DETAIL PROVIDED IN THE CONTRACT DOCUMENTS.
- THE THICKNESS OF THE HMA SHOWN ON THE PLANS IS NOMINAL. DEVIATIONS MAY OCCUR IN THE FIELD DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE UPON WHICH THE HMA IS BEING PLACED.
- THE LOCATIONS AND ELEVATIONS OF THE VARIOUS UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL EXERCISE CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR UTILITIES TO PREVENT DAMAGE. THE FAILURE OF A UTILITY COMPANY TO ACCURATELY LOCATE THEIR UTILITY DOES NOT FREE THE CONTRACTOR FROM RESPONSIBILITY. THE MAJOR CONCERN OF THE CITY OF WHEATON IS PUBLIC SAFETY.
- THE CONTRACTOR SHALL COOPERATE WITH THE CITY IN ANY UNDERGROUND UTILITY CONSTRUCTION WHICH THE CITY MAY WANT TO PERFORM DURING THE CONTRACTOR'S OPERATIONS.
- THE CONTRACTOR SHALL HAVE LINE AND/OR FORMS SET A MINIMUM OF FOUR WORKING HOURS PRIOR TO THE SCHEDULED ARRIVAL OF CONCRETE ON SITE FOR THE PLACEMENT OF CURB AND GUTTER, DRIVEWAYS, AND SIDEWALK TO ALLOW THE ENGINEER TIME TO CHECK LINE AND GRADE.
- ALL RADII FOR PROPOSED COMBINATION CONCRETE CURB AND GUTTER SHALL BE PLACED AT THE EXISTING DIMENSION UNLESS OTHERWISE INDICATED ON THE PROJECT PLANS OR AS DIRECTED BY THE ENGINEER. ELEVATIONS SHOWN AT POINT ON THE CURB INDICATED FLOW LINE ELEVATIONS UNLESS NOTED OTHERWISE.
- WHEN WATER SERVICE BOXES FALL WITHIN THE LIMITS OF CONCRETE FLATWORK, THE CONTRACTOR SHALL PROVIDE EITHER A SECTION OF 4" POLY VINYL CHLORIDE (PVC) PIPE OR 4" HIGH DENSITY POLYETHYLENE (HDPE) PIPE TO SLEEVE THE BOX. THE SLEEVE SHALL EITHER BE REMOVED OR TRIMMED TO MATCH THE EXISTING CONCRETE GRADE LEVEL. THE FINAL RESULT SHALL BE A SMOOTH FINISHED "BOX-OUT" AROUND THE SERVICE BOX WHICH SHALL FACILITATE EASY REMOVAL OF THE CAP.
- WHEN A SEWER STRUCTURE FALLS WITHIN THE LIMITS OF A CONCRETE DRIVEWAY, THE CONTRACTOR SHALL PLACE EXPANSION MATERIAL IN A BOX APPROXIMATELY EIGHTEEN (18") INCHES FROM THE CENTER OF THE LID FORMING A SQUARE "BOX-OUT" AROUND THE FRAME. THE RESULT SHALL BE A CONDITION THAT WILL ALLOW FOR THE REMOVAL OF THE SQUARE OF CONCRETE FROM THE DRIVEWAY FOR THE PURPOSE OF REPLACING THE FRAME WITHOUT DAMAGING THE REMAINDER OF THE DRIVEWAY PAVEMENT.
- ALL CONSTRUCTION PERSONNEL SHALL BE REQUIRED TO WEAR A FLUORESCENT YELLOW / GREEN SAFETY VEST AT ALL TIMES WHILE ON THE CONSTRUCTION SITE.

- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1-1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD THE LOCATIONS OF ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE REESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE CONTRACTOR SHALL PROVIDE SAFE AND ORDERLY PASSAGE FOR TRAFFIC AND PEDESTRIANS WHERE CONSTRUCTION OPERATIONS IMPACT PUBLIC THOROUGHFARES AND ADJACENT PROPERTY. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- ALL SIDEWALK CURB RAMPS SHALL BE COMPLIANT WITH ALL APPLICABLE ADA STANDARDS AND INCLUDED DETAILS. INDIVIDUAL DESIGN DETAILS HAVE BEEN PROVIDED FOR ALL LOCATIONS WITH AN EXISTING SLOPE OVER 5%.
- A NOMINAL QUANTITY HAS BEEN INCLUDED FOR THE FOLLOWING PAY ITEMS:
  - EARTH EXCAVATION
  - POROUS GRANULAR EMBANKMENT
  - COMBINATION CURB AND GUTTER REMOVAL
  - CLASS D PATCHES
  - REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
  - PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
  - SIDEWALK REMOVAL
  - COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

**GENERAL NOTES - SEWERS:**

- ALL FRAMES WITH CLOSED LIDS BEING FURNISHED FOR THIS PROJECT AS CONSTRUCTION, ADJUSTMENT, OR RECONSTRUCTION OF ANY MANHOLE, CATCH BASIN, INLET, OR WATER VALVE VAULT SHALL HAVE CAST INTO THE LID ONE OR MORE OF THE FOLLOWING WORDS:
  - ALL LIDS BEING USED FOR STORM SEWER MANHOLES SHALL BEAR THE WORD "STORM". ALL LIDS BEING USED FOR SANITARY MANHOLES SHALL BEAR THE WORD "SANITARY". ALL LIDS BEING USED FOR CITY'S WATER SYSTEM STRUCTURES SHALL BEAR THE WORD "WATER". THE INCLUSION OF THESE LIDS SHALL BE INCLUDED IN THE COST OF THE APPROPRIATE CONTRACT LINE ITEM. ALL CURB INLET FRAMES SHALL BE STAMPED WITH A "FISH" SYMBOL DIRECTLY ON THE CURB BACK.
- IF AT ANY TIME DURING THE CONSTRUCTION OF THIS PROJECT LOOSE MATERIAL IS DEPOSITED INTO THE FLOW LINE OF A SEWER STRUCTURE IN SUCH A WAY AS TO RESTRICT OR OBSTRUCT THE NATURAL FLOW OF WATER IN THE STRUCTURE, THE MATERIAL SHALL BE REMOVED BEFORE THE CLOSE OF THE WORKING DAY DURING WHICH IT WAS DEPOSITED. AT THE CONCLUSION OF CONSTRUCTION ACTIVITIES, AND BEFORE THE CITY ACCEPTS THE PROJECT, ALL SEWERS AND SEWER STRUCTURES THAT FALL WITHIN THE LIMITS OF THE PROJECT SHALL BE FREE OF CONSTRUCTION DEBRIS AND LOOSE MATERIAL.

LIST OF ABBREVIATIONS			
CB	CATCH BASIN	SF	SQUARE FEET
C&G	CURB & GUTTER	SY	SQUARE YARDS
DIA.	DIAMETER	T1FCL	TYPE 1 FRAME, CLOSED LID
FR	FRAME	T1FOL	TYPE 1 FRAME, OPEN LID
HMA	HOT-MIX ASPHALT	WM	WATER MAIN
INV.	INVERT	ADJ	TO BE ADJUSTED
LF	LINEAL FEET	STM	STORM
MH	MANHOLE	SAN	SANITARY
P.C.C.	PORTLAND CEMENT CONCRETE	WQ	WATER QUALITY

**INDEX OF SHEETS**

- 1 TITLE SHEET
- 2 GENERAL NOTES
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- 4 TYPICAL SECTIONS
- 5-9 PLAN SHEETS
- 10-14 PAVEMENT MARKING PLAN
- 15-20 SIDEWALK PLANS
- 21-22 WHEATON CONSTRUCTION DETAILS
- 23-28 DISTRICT 1 DETAILS

LEGEND	EXISTING	PROPOSED
MAIL BOX		
HANDHOLE		
EVERGREEN TREE		
DECIDUOUS TREE		
BUSH		
PAVEMENT BUTT JOINT		
POWER POLE		
TELEPHONE BOX		
B-BOX		
FIRE HYDRANT		
VALVE		
VALVE VAULT		
ABANDON VALVE VAULT		
WATER MAIN		
MANHOLE		
ABANDON MANHOLE		
CATCH BASIN		
INLET		
STORM SEWER LINE		
SANITARY SEWER LINE		
GAS MAIN		
INDICATES STORM MANHOLE		
INDICATES SANITARY MANHOLE		
INDICATES STORM SEWER STRUCTURE		
INDICATES VALVE TO BE ADJUSTED		
INDICATES TYPICAL CROSS SECTION LOCATION		

**DISTRICT 1 HIGHWAY STANDARDS**

BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD-32	BUTT JOINT AND HMA TAPER DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC-13	TYPICAL PAVEMENT MARKINGS
TC-16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

**IDOT STATE STANDARDS**

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
424001-09	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-02	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-03	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-03	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-03	DEPRESSED CORNER FOR SIDEWALKS
424026-01	ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
424031-01	MEDIAN PEDESTRIAN CROSSINGS
442201-03	CLASS C AND D PATCHES
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

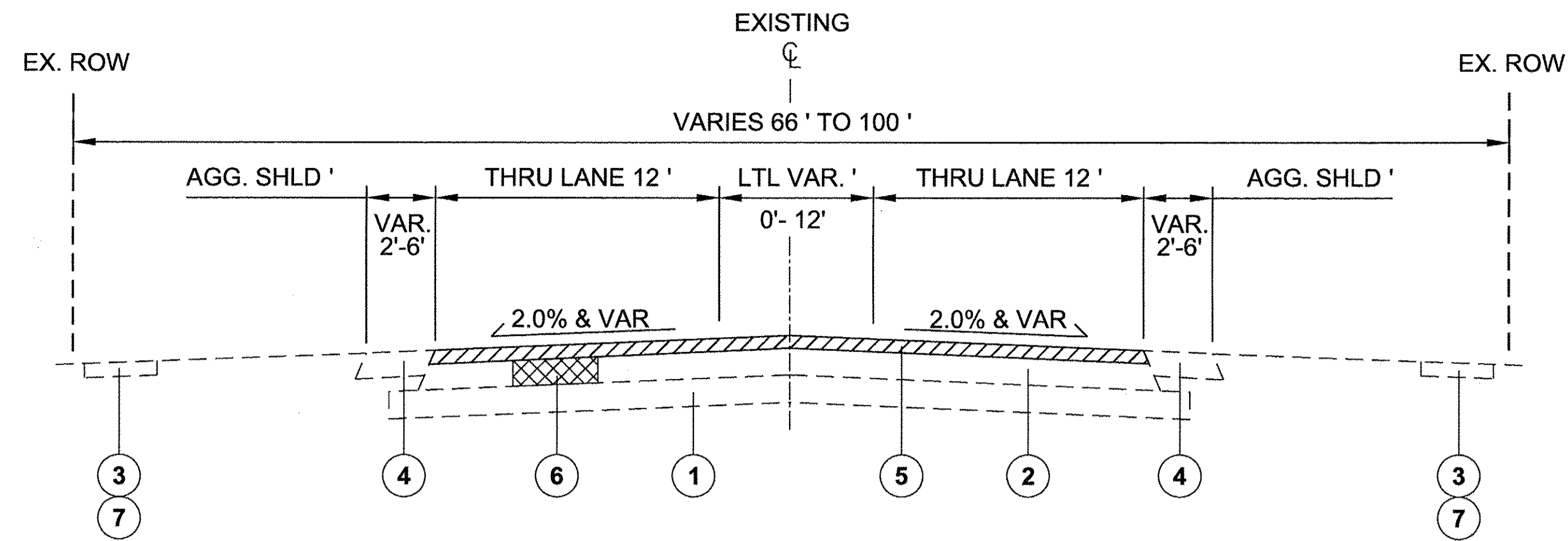
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**SUMMARY OF QUANTITIES**

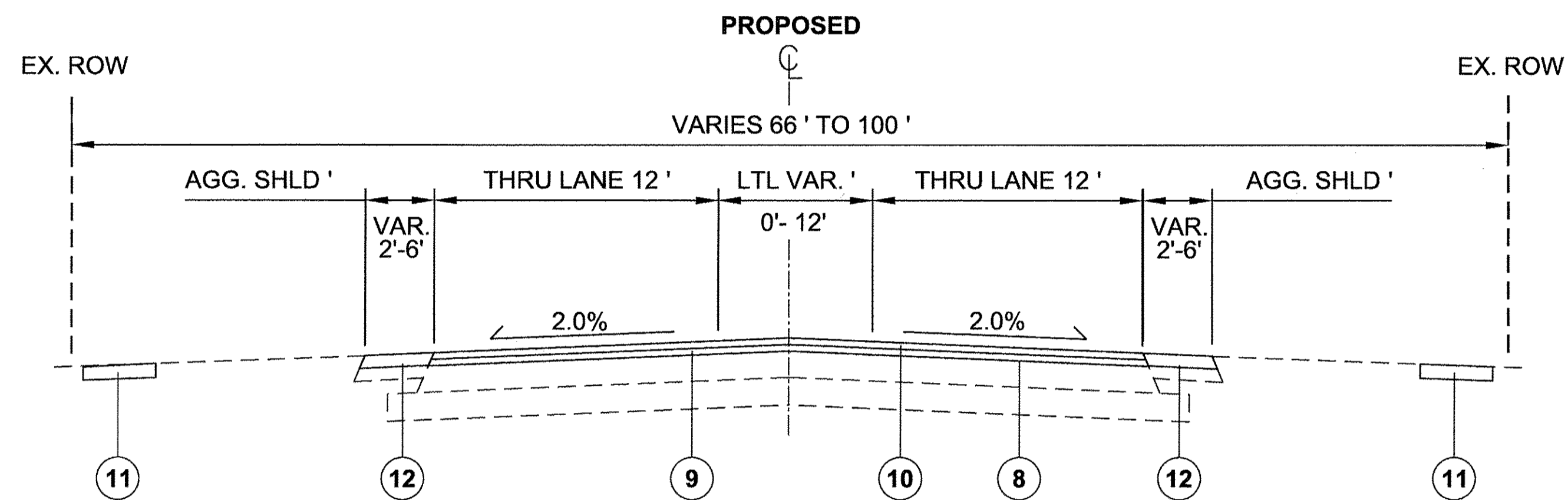
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20200100	EARTH EXCAVATION	CU YD	18
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	20
20700220	POROUS GRANULAR EMBANKMENT	CU YD	20
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	534
25200110	SODDING, SALT TOLERANT	SQ YD	534
28000510	INLET FILTERS	EACH	15
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	12172
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	27.1
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	1515
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	222
40600990	TEMPORARY RAMP	SQ YD	40
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1515
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	4272
42400800	DETECTABLE WARNINGS	SQ FT	312
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	18032
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	816
44000600	SIDEWALK REMOVAL	SQ FT	3862
44201725	CLASS D PATCHES, TYPE I, 7 INCH	SQ YD	90
44201729	CLASS D PATCHES, TYPE II, 7 INCH	SQ YD	180
44201733	CLASS D PATCHES, TYPE III, 7 INCH	SQ YD	270

CODE NO.	ITEM	UNIT	TOTAL QTY.
			CONSTR. CODE 0005
44201735	CLASS D PATCHES, TYPE IV, 7 INCH	SQ YD	361
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	1224
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	354
60255500	MANHOLES TO BE ADJUSTED	EACH	8
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	816
67100100	MOBILIZATION	LSUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	5
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1110
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	366
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	133
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	20049
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	252
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	328
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	160
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	LSUM	1
Z0019600	DUST CONTROL WATERING	UNIT	10

• INDICATES SPECIALTY ITEM



**EXISTING TYPICAL SECTION**  
**ORCHARD ROAD**  
**STA. 201+41 TO STA. 253+18.5**



**PROPOSED TYPICAL SECTION**  
**ORCHARD ROAD**  
**STA. 201+41 TO STA. 253+18.5**

**LEGEND**

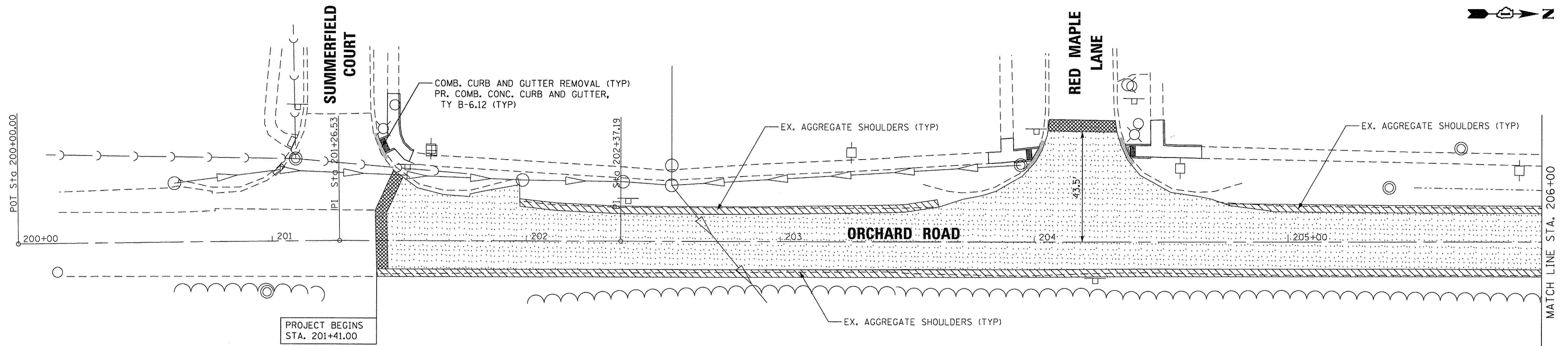
- ① EX SUB-BASE GRAN MATL, THICKNESS VARIES
- ② EX HMA PAVEMENT, 10"
- ③ EX PCC SIDEWALK
- ④ EX AGGREGATE SHOULDER
- ⑤ HMA SURFACE REMOVAL, 3"
- ⑥ PR CLASS D PATCHES, 7" (SEE NOTE A)
- ⑦ SIDEWALK REMOVAL (SEE NOTE A)
- ⑧ PR BITUMINOUS MATERIALS (TACK COAT)
- ⑨ PR LEVELING BINDER (MM), N50, 1-1/2"
- ⑩ PR HMA SURF CSE, MIX "D", N50, 1-1/2"
- ⑪ PR PCC SIDEWALK, 5" (SEE NOTE A)
- ⑫ PR AGGREGATE WEDGE SHOULDER, TYPE B, 3"

**NOTES:**

**A. PATCHING AND CURB AND GUTTER LOCATIONS WILL BE SPECIFIED BY THE ENGINEER IN THE FIELD DURING CONSTRUCTION.**

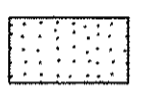

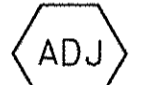
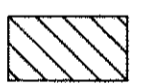
HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
<b>ROADWAY RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm)	4% @ 50 Gyr.
LEVELING BINDER (MACHINE METHOD), N50 (IL 9.5 mm)	4% @ 50 Gyr.
<b>ROADWAY PATCHING -(PAY ITEM = CLASS D PATCHES)</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 Gyr.

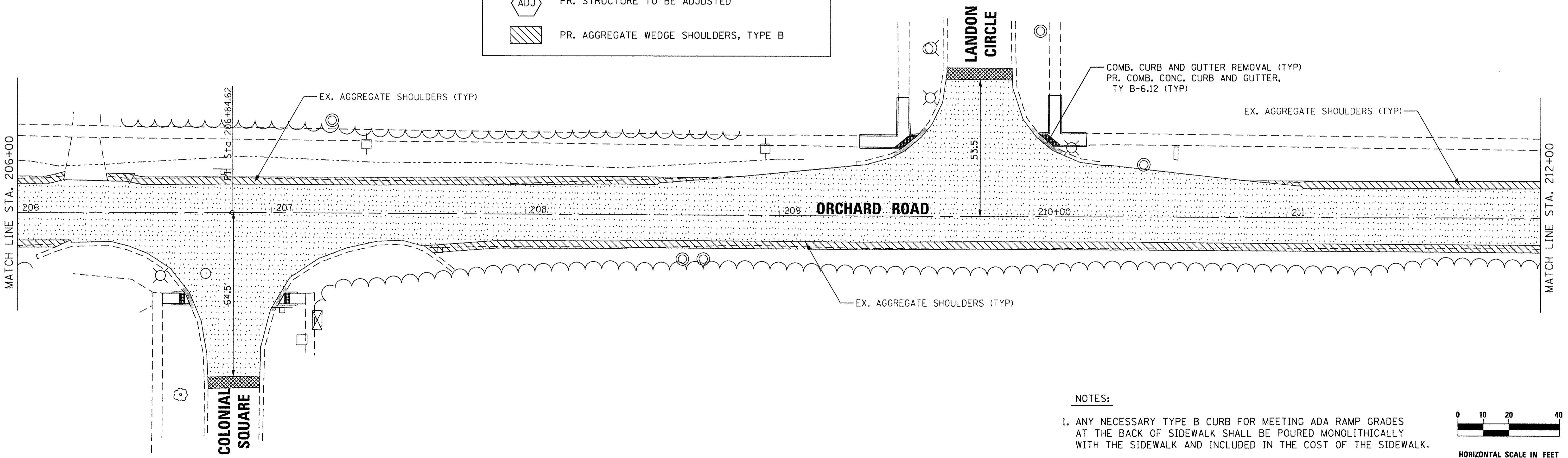
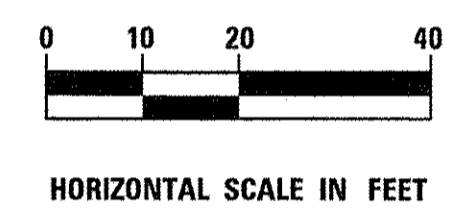
1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.  
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIALS PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.  
3. THE CONTRACTOR SHALL MILL BEFORE PATCHING.



PROJECT BEGINS  
STA. 201+41.00

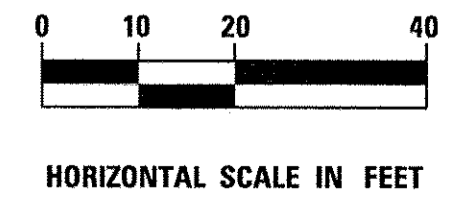
**LEGEND**

-  PR. HMA SURFACE REMOVAL, 3"  
PR. HMA LEVELING BINDER (MM), N50, 1-1/2"  
PR. HMA SURFACE COURSE, MIX "D", N50, 1-1/2"
-  PR. HMA SURFACE REMOVAL- BUTT JOINT
-  PR. STRUCTURE TO BE ADJUSTED
-  PR. AGGREGATE WEDGE SHOULDERS, TYPE B



**NOTES:**

- ANY NECESSARY TYPE B CURB FOR MEETING ADA RAMP GRADES AT THE BACK OF SIDEWALK SHALL BE POURED MONOLITHICALLY WITH THE SIDEWALK AND INCLUDED IN THE COST OF THE SIDEWALK.



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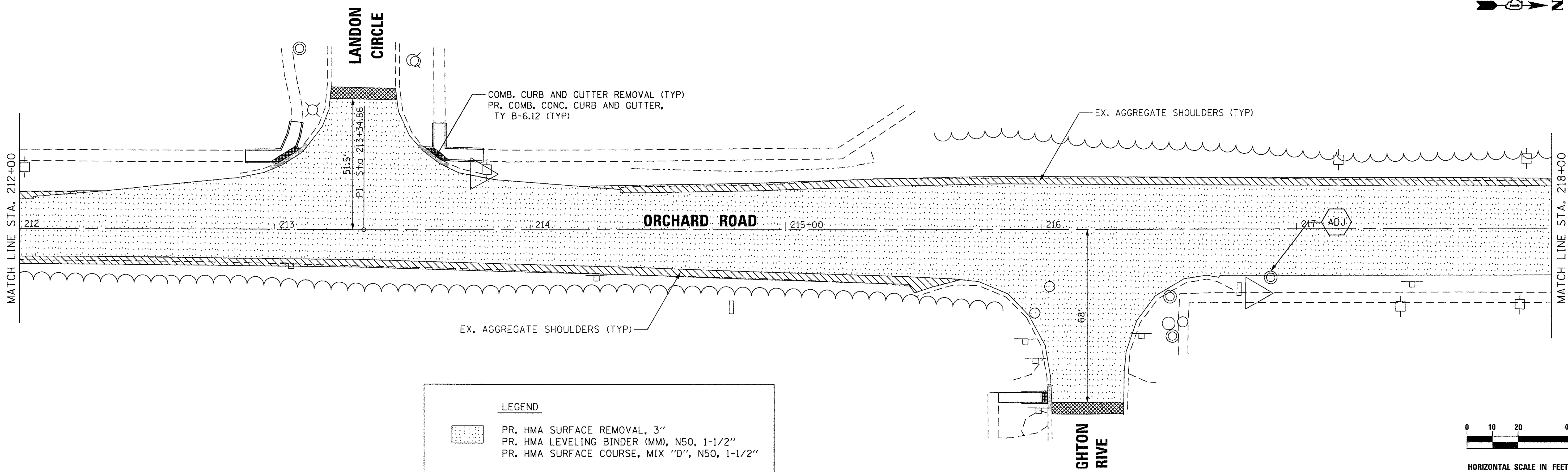
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

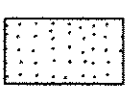


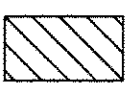
**ROADWAY PLANS**

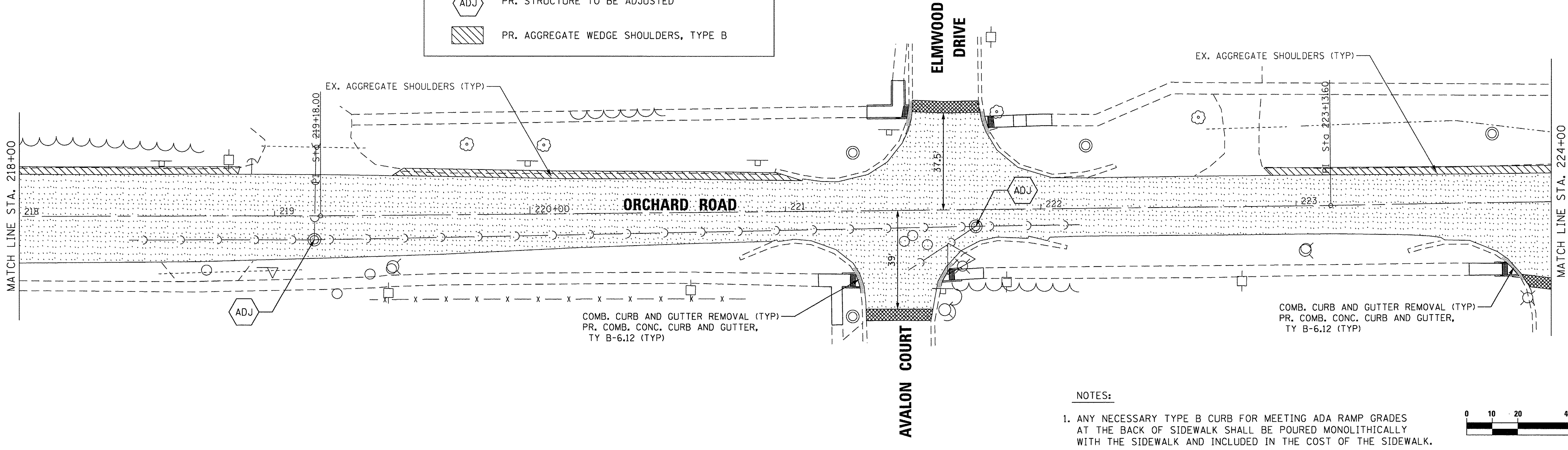
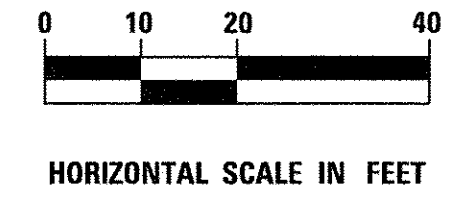
SCALE: 20 SHEET 1 OF 5 SHEETS STA. 200+00 TO STA. 212+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3821	15-00112-00-RS	DUPAGE	28	5
CONTRACT NO. 61D50				
ILLINOIS FED. AID PROJECT				

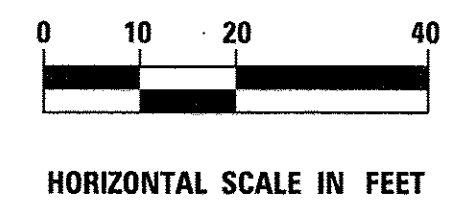


**LEGEND**

-  PR. HMA SURFACE REMOVAL, 3"  
PR. HMA LEVELING BINDER (MM), N50, 1-1/2"  
PR. HMA SURFACE COURSE, MIX "D", N50, 1-1/2"
-  PR. HMA SURFACE REMOVAL- BUTT JOINT
-  PR. STRUCTURE TO BE ADJUSTED
-  PR. AGGREGATE WEDGE SHOULDERS, TYPE B



- NOTES:**
- ANY NECESSARY TYPE B CURB FOR MEETING ADA RAMP GRADES AT THE BACK OF SIDEWALK SHALL BE POURED MONOLITHICALLY WITH THE SIDEWALK AND INCLUDED IN THE COST OF THE SIDEWALK.



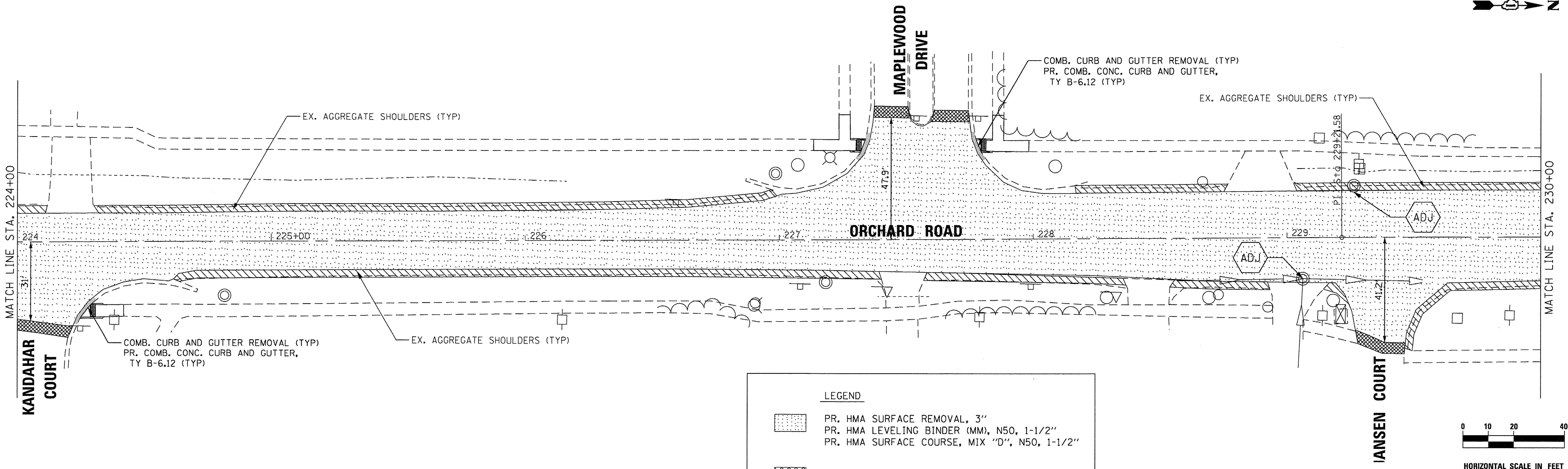
**thomas** engineering group, llc  
762 shoreline drive  
suite 200  
aurora, illinois 60504  
phone: 855-533-1700

USER NAME = DanN	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / 1" =	DRAWN -	REVISED -
PLOT DATE = 12/13/2016	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

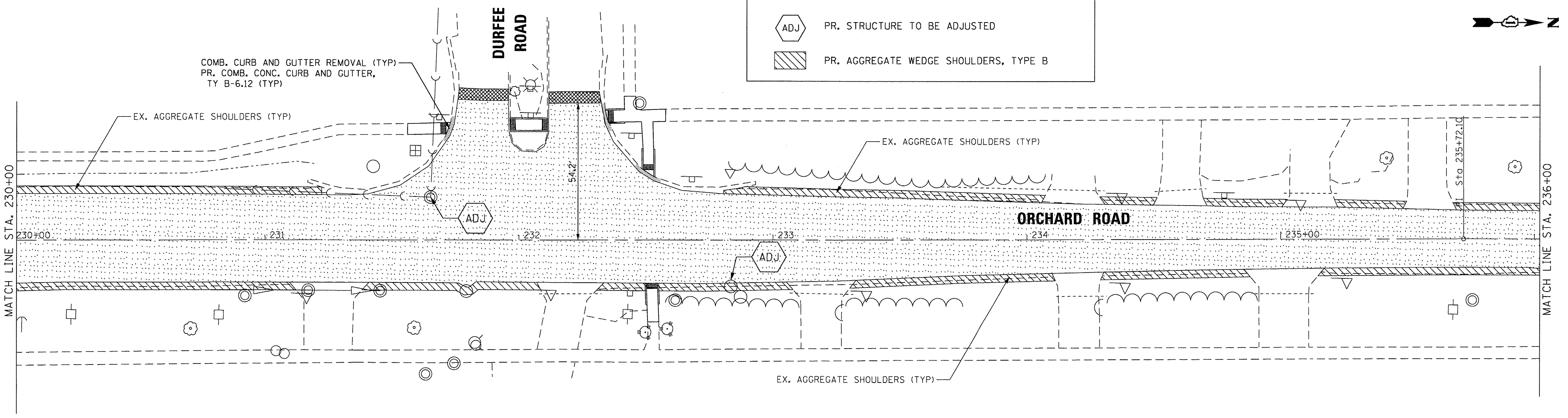
<b>ROADWAY PLANS</b>		
SCALE: 20	SHEET 2 OF 5 SHEETS	STA. 212+00 TO STA. 224+00

F.A.U. RTE. 3821	SECTION 15-00112-00-RS	COUNTY DUPAGE	TOTAL SHEETS 28	SHEET NO. 6
CONTRACT NO. 61D50				
ILLINOIS FED. AID PROJECT				



HORIZONTAL SCALE IN FEET

LEGEND	
	PR. HMA SURFACE REMOVAL, 3" PR. HMA LEVELING BINDER (MM), N50, 1-1/2" PR. HMA SURFACE COURSE, MIX "D", N50, 1-1/2"
	PR. HMA SURFACE REMOVAL- BUTT JOINT
	PR. STRUCTURE TO BE ADJUSTED
	PR. AGGREGATE WEDGE SHOULDERS, TYPE B



HORIZONTAL SCALE IN FEET

- NOTES:**
1. ANY NECESSARY TYPE B CURB FOR MEETING ADA RAMP GRADES AT THE BACK OF SIDEWALK SHALL BE POURED MONOLITHICALLY WITH THE SIDEWALK AND INCLUDED IN THE COST OF THE SIDEWALK.

**thomas** engineering group, llc  
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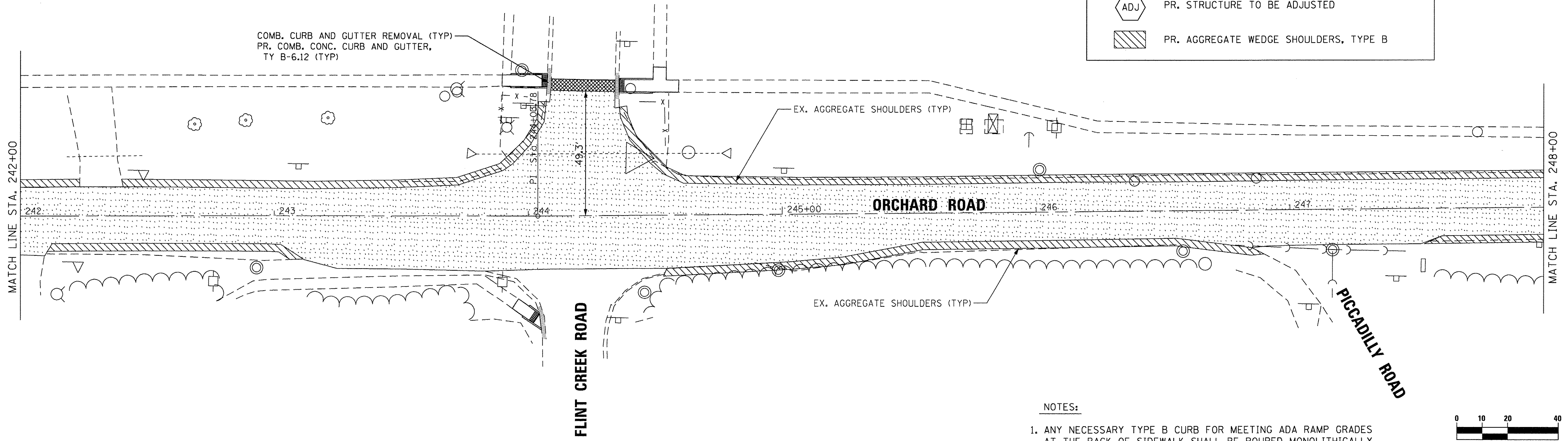
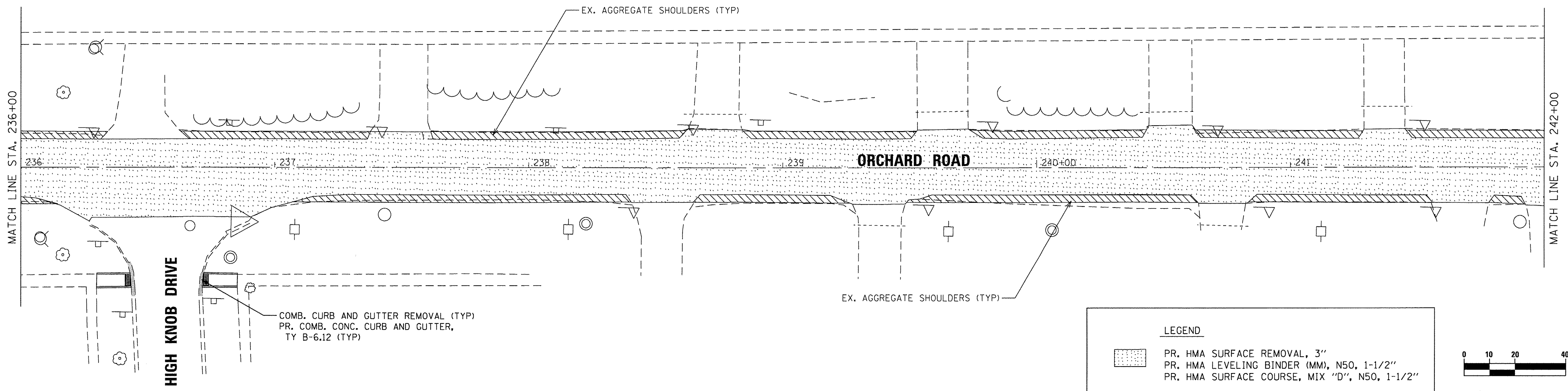
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLANS**

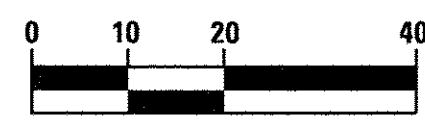
SCALE: 20 SHEET 3 OF 5 SHEETS STA. 224+00 TO STA. 236+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3821	15-00112-00-RS	DUPAGE	28	7
CONTRACT NO. 61D50			ILLINOIS FED. AID PROJECT	



**LEGEND**

	PR. HMA SURFACE REMOVAL, 3"
	PR. HMA LEVELING BINDER (MM), N50, 1-1/2"
	PR. HMA SURFACE COURSE, MIX "D", N50, 1-1/2"
	PR. HMA SURFACE REMOVAL- BUTT JOINT
	PR. STRUCTURE TO BE ADJUSTED
	PR. AGGREGATE WEDGE SHOULDERS, TYPE B

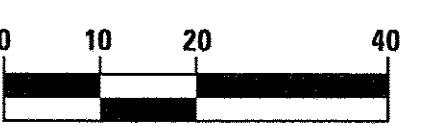


HORIZONTAL SCALE IN FEET



**NOTES:**

1. ANY NECESSARY TYPE B CURB FOR MEETING ADA RAMP GRADES AT THE BACK OF SIDEWALK SHALL BE POURED MONOLITHICALLY WITH THE SIDEWALK AND INCLUDED IN THE COST OF THE SIDEWALK.



HORIZONTAL SCALE IN FEET

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suite 200  
aurora, illinois 60504  
phone: 855-533-1700

USER NAME = DonN	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 12/13/2016	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

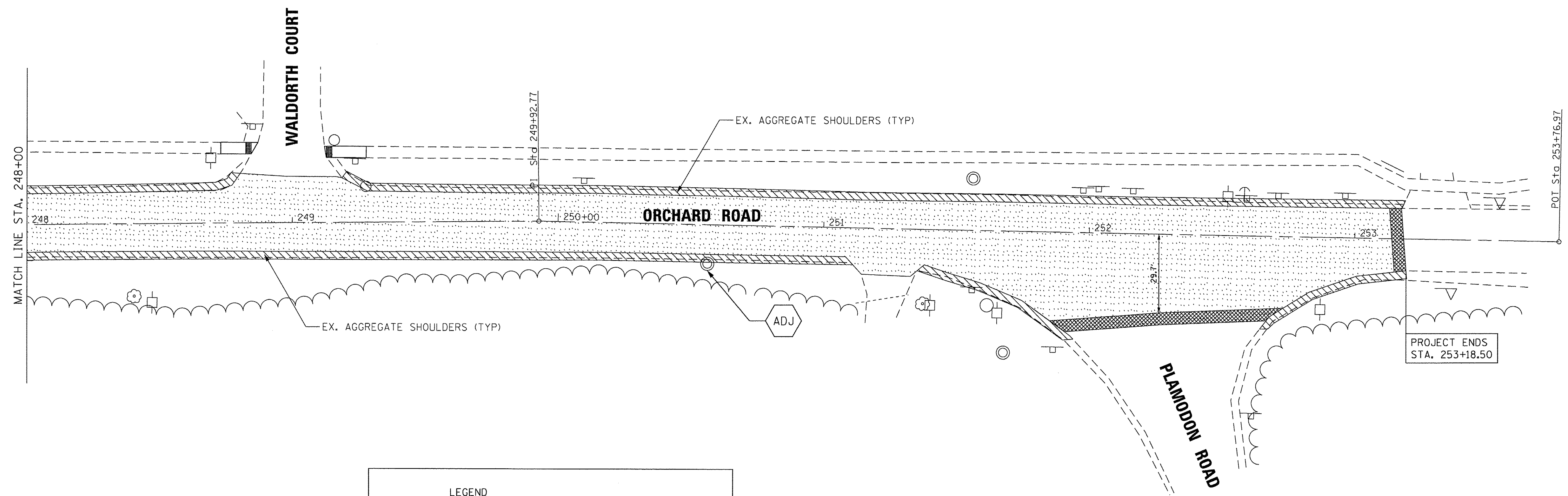
**ROADWAY PLANS**

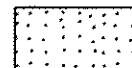


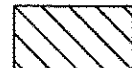
SCALE: 20 SHEET 4 OF 5 SHEETS STA. 236+00 TO STA. 248+00

F.A.J. RTE. 3821	SECTION 15-00112-00-RS	COUNTY DUPAGE	TOTAL SHEETS 28	SHEET NO. 8
CONTRACT NO. 61D50				

ILLINOIS FED. AID PROJECT





LEGEND	
	PR. HMA SURFACE REMOVAL, 3" PR. HMA LEVELING BINDER (MM), N50, 1-1/2" PR. HMA SURFACE COURSE, MIX "D", N50, 1-1/2"
	PR. HMA SURFACE REMOVAL- BUTT JOINT
	PR. STRUCTURE TO BE ADJUSTED
	PR. AGGREGATE WEDGE SHOULDERS, TYPE B

NOTES:

1. ANY NECESSARY TYPE B CURB FOR MEETING ADA RAMP GRADES AT THE BACK OF SIDEWALK SHALL BE POURED MONOLITHICALLY WITH THE SIDEWALK AND INCLUDED IN THE COST OF THE SIDEWALK.



HORIZONTAL SCALE IN FEET

**thomas**  
engineering group  
service at the highest grade

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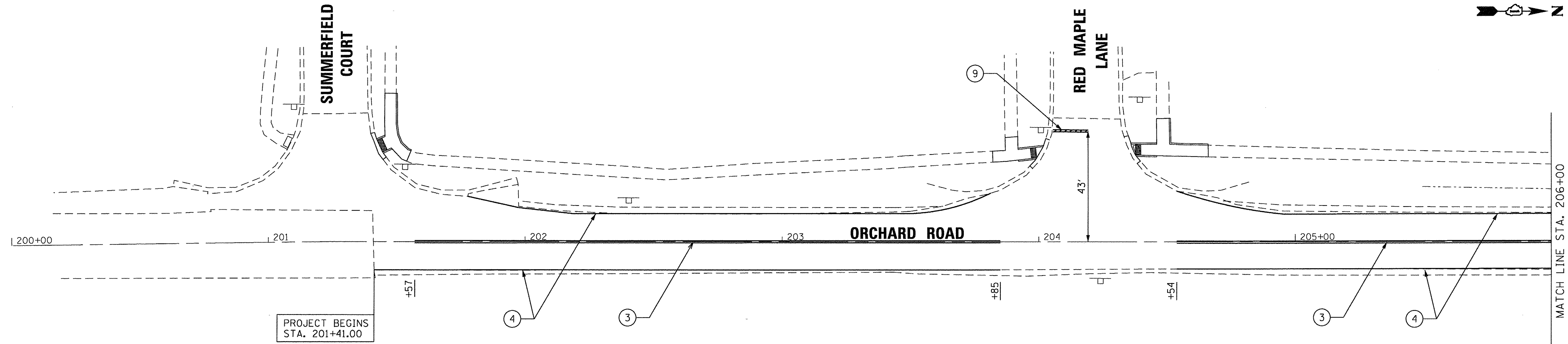
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PLOT SCALE = 20.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 12/13/2016	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS

SCALE: 20 SHEET 5 OF 5 SHEETS STA. 242+00 TO STA. 253+18

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3821	15-00112-00-RS	DUPAGE	28	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D50	

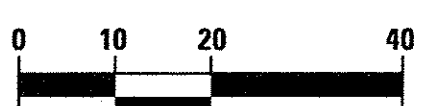
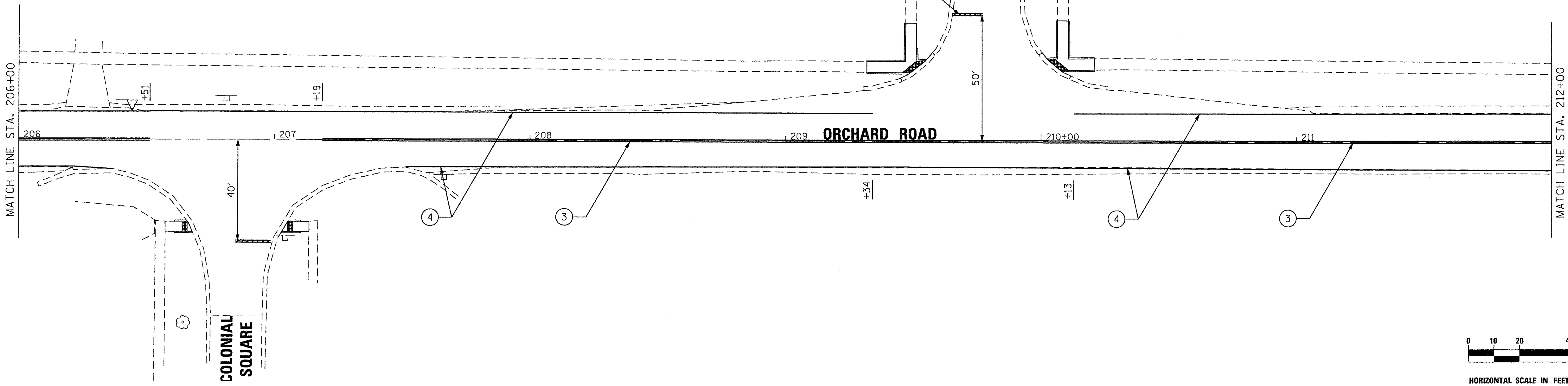


**LEGEND**

① THERMOPLASTIC PAVEMENT MARKINGS- LETTERS AND SYMBOLS, WHITE (TYP)	⑥ THERMOPLASTIC PAVEMENT MARKINGS- LINE 6" TURN LANE LINE, YELLOW (TYP)
② THERMOPLASTIC PAVEMENT MARKINGS- LINE 4" SOLID LINE, YELLOW (TYP)	⑦ THERMOPLASTIC PAVEMENT MARKINGS- LINE 6" DOTTED LINE, WHITE (TYP)
③ THERMOPLASTIC PAVEMENT MARKINGS- LINE 4" DOUBLE LINE, 11" C-C, YELLOW (TYP)	⑧ THERMOPLASTIC PAVEMENT MARKINGS- LINE 12" MEDIAN LINE, YELLOW (TYP)
④ THERMOPLASTIC PAVEMENT MARKINGS- LINE 4" EDGE LINE, WHITE (TYP)	⑨ THERMOPLASTIC PAVEMENT MARKINGS- LINE 24" STOP BAR, WHITE (TYP)
⑤ THERMOPLASTIC PAVEMENT MARKINGS- LINE 6" CROSSWALK, WHITE (TYP)	⑩ THERMOPLASTIC PAVEMENT MARKINGS- LINE 24" SCHOOL CROSSWALK, WHITE (TYP)



HORIZONTAL SCALE IN FEET



HORIZONTAL SCALE IN FEET

**thomas** engineering group, llc  
762 shoreline drive  
suite 200  
aurora, illinois 60504  
phone: 855-533-1700

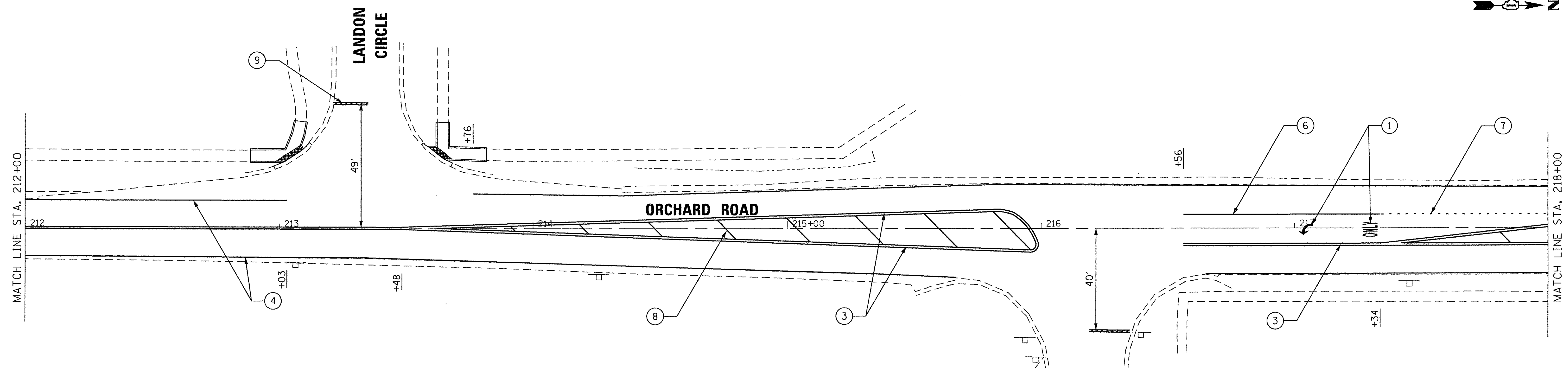
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PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 12/28/2016	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

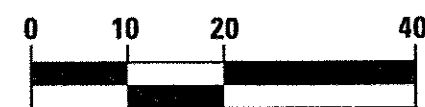
**PAVEMENT MARKING PLANS**

SCALE: 20 SHEET 1 OF 5 SHEETS STA. 201+41 TO STA. 212+00

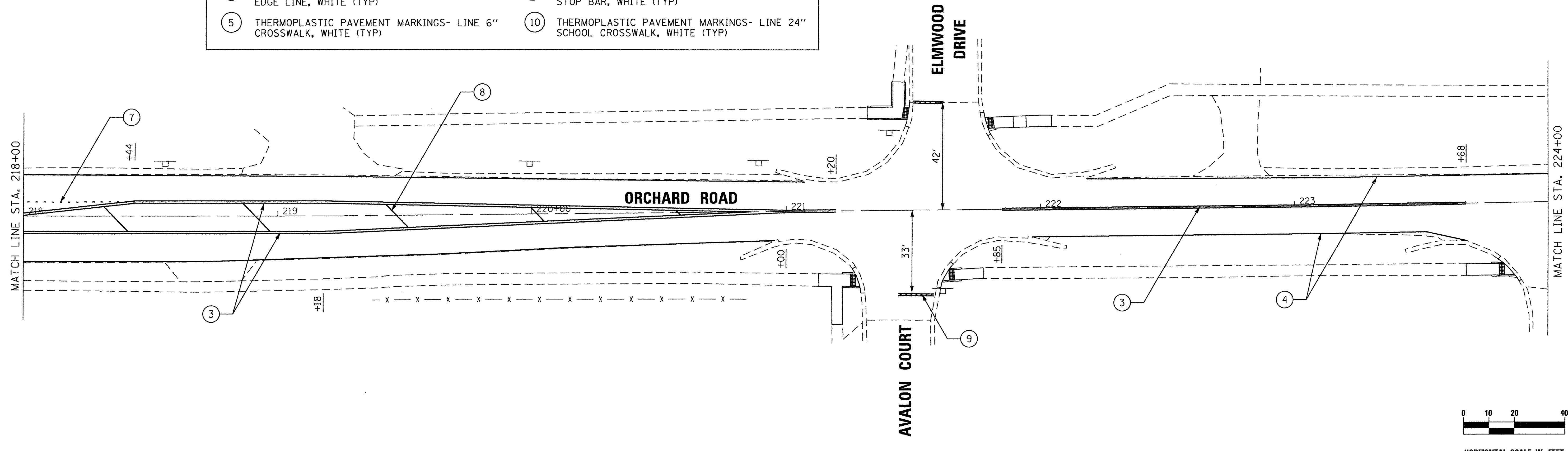
F.A.U. RTE. 3821	SECTION 15-00112-00-RS	COUNTY DUPAGE	TOTAL SHEETS 28	SHEET NO. 10
CONTRACT NO. 61D50				ILLINOIS FED. AID PROJECT



LEGEND	
1	THERMOPLASTIC PAVEMENT MARKINGS- LETTERS AND SYMBOLS, WHITE (TYP)
2	THERMOPLASTIC PAVEMENT MARKINGS- LINE 4" SOLID LINE, YELLOW (TYP)
3	THERMOPLASTIC PAVEMENT MARKINGS- LINE 4" DOUBLE LINE, 11" C-C, YELLOW (TYP)
4	THERMOPLASTIC PAVEMENT MARKINGS- LINE 4" EDGE LINE, WHITE (TYP)
5	THERMOPLASTIC PAVEMENT MARKINGS- LINE 6" CROSSWALK, WHITE (TYP)
6	THERMOPLASTIC PAVEMENT MARKINGS- LINE 6" TURN LANE LINE, YELLOW (TYP)
7	THERMOPLASTIC PAVEMENT MARKINGS- LINE 6" DOTTED LINE, WHITE (TYP)
8	THERMOPLASTIC PAVEMENT MARKINGS- LINE 12" MEDIAN LINE, YELLOW (TYP)
9	THERMOPLASTIC PAVEMENT MARKINGS- LINE 24" STOP BAR, WHITE (TYP)
10	THERMOPLASTIC PAVEMENT MARKINGS- LINE 24" SCHOOL CROSSWALK, WHITE (TYP)



HORIZONTAL SCALE IN FEET



HORIZONTAL SCALE IN FEET

**thomas** engineering group, llc  
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suite 200  
aurora, illinois 60504  
phone: 855-533-1700

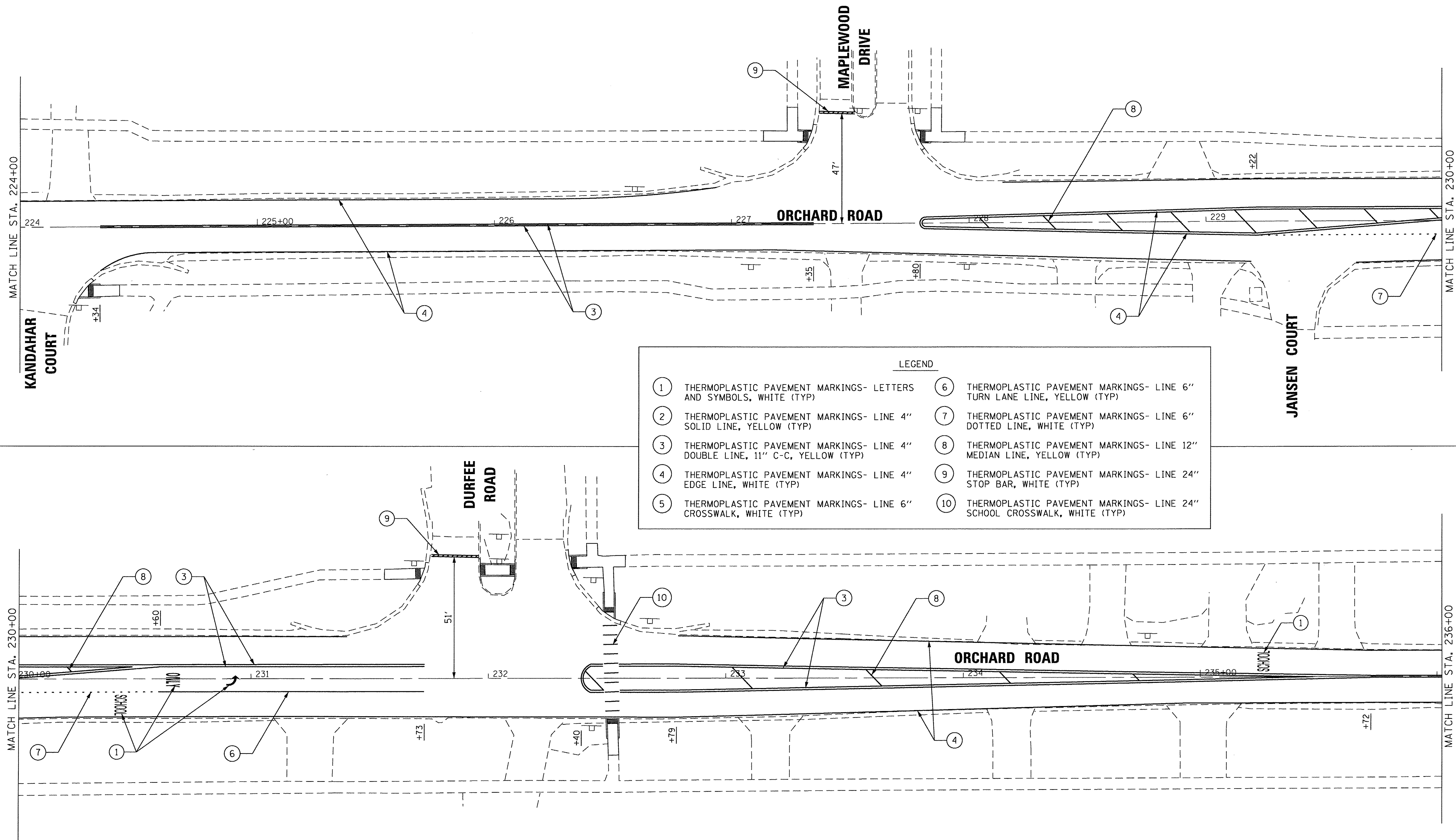
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PLOT DATE = 12/28/2016	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLANS

SCALE: 20 SHEET 2 OF 5 SHEETS STA. 112+00 TO STA. 224+00

F.A.U. RTE. 3821	SECTION 15-00112-00-RS	COUNTY DUPAGE	TOTAL SHEETS 28	SHEET NO. 11
CONTRACT NO. 61D50				
ILLINOIS FED. AID PROJECT				



**LEGEND**

① THERMOPLASTIC PAVEMENT MARKINGS- LETTERS AND SYMBOLS, WHITE (TYP)	⑥ THERMOPLASTIC PAVEMENT MARKINGS- LINE 6" TURN LANE LINE, YELLOW (TYP)
② THERMOPLASTIC PAVEMENT MARKINGS- LINE 4" SOLID LINE, YELLOW (TYP)	⑦ THERMOPLASTIC PAVEMENT MARKINGS- LINE 6" DOTTED LINE, WHITE (TYP)
③ THERMOPLASTIC PAVEMENT MARKINGS- LINE 4" DOUBLE LINE, 11" C-C, YELLOW (TYP)	⑧ THERMOPLASTIC PAVEMENT MARKINGS- LINE 12" MEDIAN LINE, YELLOW (TYP)
④ THERMOPLASTIC PAVEMENT MARKINGS- LINE 4" EDGE LINE, WHITE (TYP)	⑨ THERMOPLASTIC PAVEMENT MARKINGS- LINE 24" STOP BAR, WHITE (TYP)
⑤ THERMOPLASTIC PAVEMENT MARKINGS- LINE 6" CROSSWALK, WHITE (TYP)	⑩ THERMOPLASTIC PAVEMENT MARKINGS- LINE 24" SCHOOL CROSSWALK, WHITE (TYP)

**thomas** engineering group  
 thomas engineering group, llc  
 762 shoreline drive  
 suite 200  
 aurora, illinois 60504  
 phone: 855-633-1700

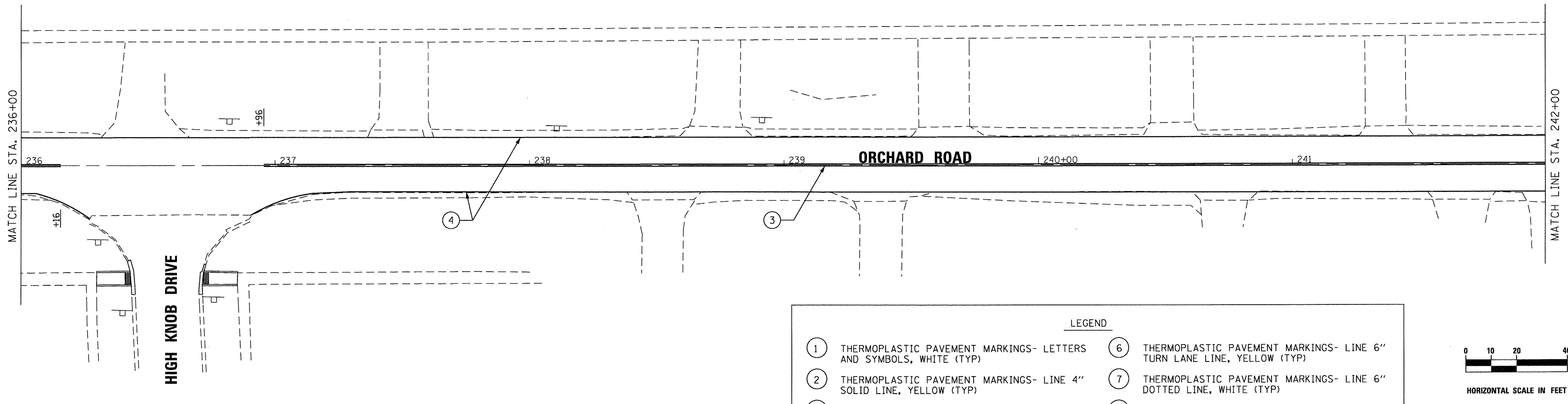
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	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

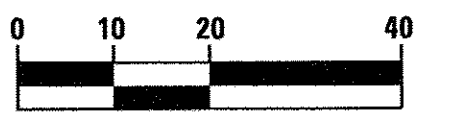
**PAVEMENT MARKING PLANS**

SCALE: 20	SHEET 3 OF 5 SHEETS	STA. 224+00 TO STA. 236+00
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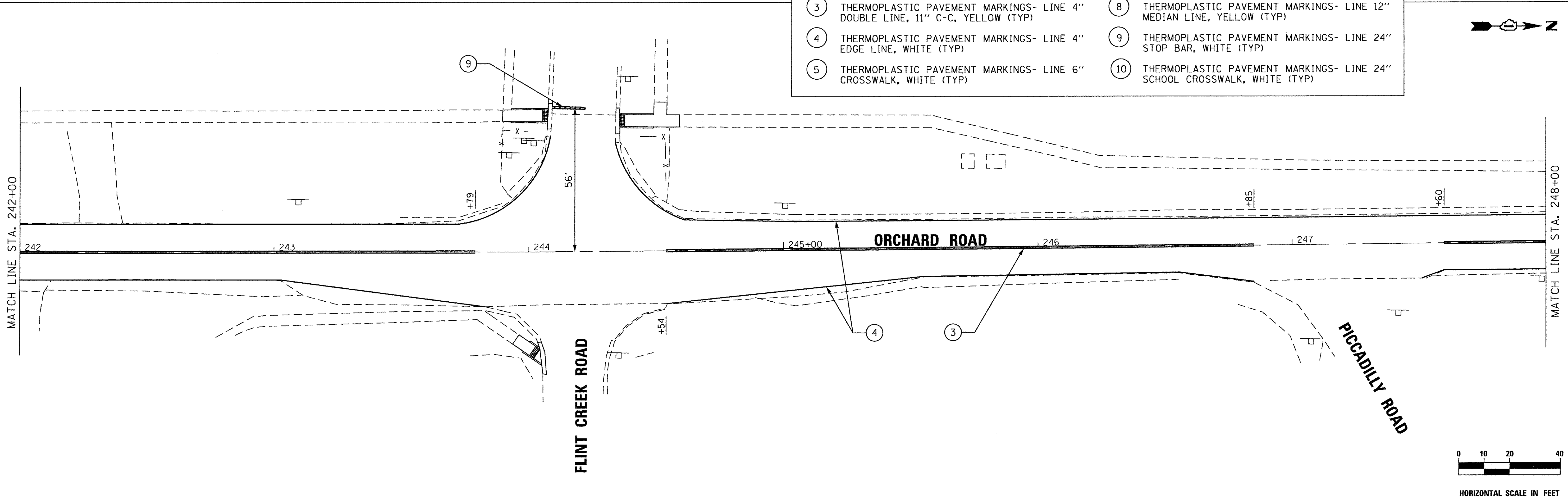
F.A.U. RTE. 3821	SECTION 15-00112-00-RS	COUNTY DUPAGE	TOTAL SHEETS 28	SHEET NO. 12
CONTRACT NO. 61D50				
ILLINOIS FED. AID PROJECT				



LEGEND	
①	THERMOPLASTIC PAVEMENT MARKINGS- LETTERS AND SYMBOLS, WHITE (TYP)
②	THERMOPLASTIC PAVEMENT MARKINGS- LINE 4" SOLID LINE, YELLOW (TYP)
③	THERMOPLASTIC PAVEMENT MARKINGS- LINE 4" DOUBLE LINE, 11" C-C, YELLOW (TYP)
④	THERMOPLASTIC PAVEMENT MARKINGS- LINE 4" EDGE LINE, WHITE (TYP)
⑤	THERMOPLASTIC PAVEMENT MARKINGS- LINE 6" CROSSWALK, WHITE (TYP)
⑥	THERMOPLASTIC PAVEMENT MARKINGS- LINE 6" TURN LANE LINE, YELLOW (TYP)
⑦	THERMOPLASTIC PAVEMENT MARKINGS- LINE 6" DOTTED LINE, WHITE (TYP)
⑧	THERMOPLASTIC PAVEMENT MARKINGS- LINE 12" MEDIAN LINE, YELLOW (TYP)
⑨	THERMOPLASTIC PAVEMENT MARKINGS- LINE 24" STOP BAR, WHITE (TYP)
⑩	THERMOPLASTIC PAVEMENT MARKINGS- LINE 24" SCHOOL CROSSWALK, WHITE (TYP)



HORIZONTAL SCALE IN FEET



HORIZONTAL SCALE IN FEET

**thomas** engineering group  
 thomas engineering group, llc  
 762 shoreline drive  
 suite 200  
 aurora, illinois 60504  
 phone: 855-333-1700

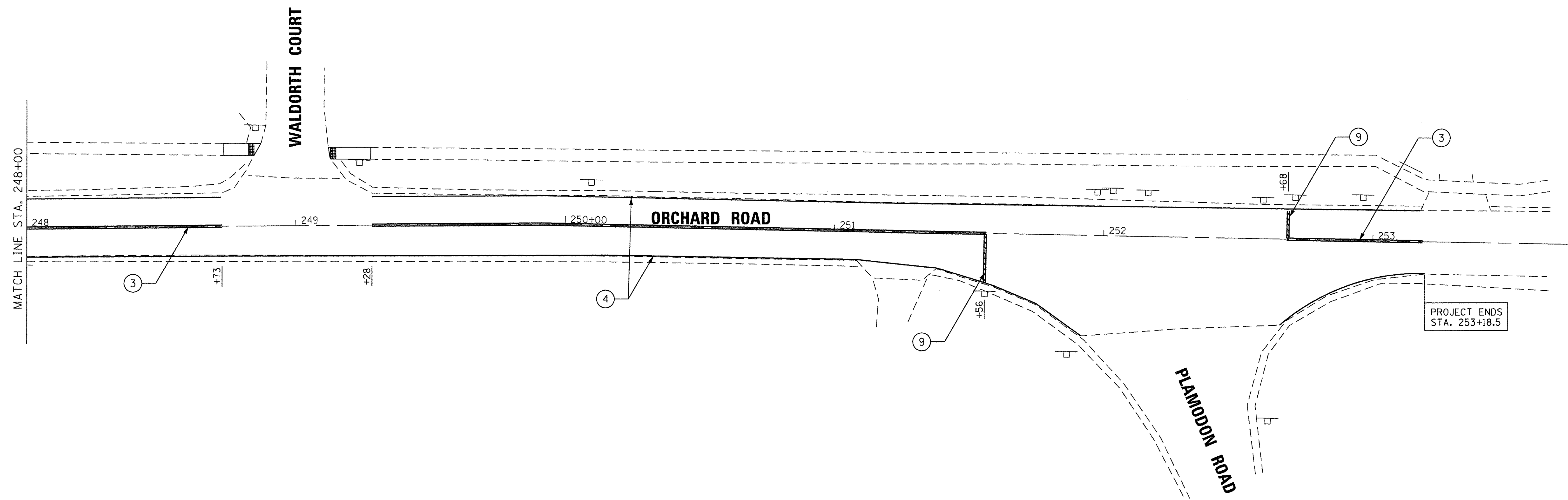
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PLOT DATE = 12/28/2016	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLANS

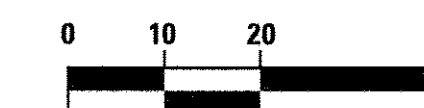
SCALE: 20 SHEET 4 OF 5 SHEETS STA. 236+00 TO STA. 248+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3821	15-00112-00-RS	DUPAGE	28	13
CONTRACT NO. 61D50				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- |                                                                               |                                                                           |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| ① THERMOPLASTIC PAVEMENT MARKINGS- LETTERS AND SYMBOLS, WHITE (TYP)           | ⑥ THERMOPLASTIC PAVEMENT MARKINGS- LINE 6" TURN LANE LINE, YELLOW (TYP)   |
| ② THERMOPLASTIC PAVEMENT MARKINGS- LINE 4" SOLID LINE, YELLOW (TYP)           | ⑦ THERMOPLASTIC PAVEMENT MARKINGS- LINE 6" DOTTED LINE, WHITE (TYP)       |
| ③ THERMOPLASTIC PAVEMENT MARKINGS- LINE 4" DOUBLE LINE, 11" C-C, YELLOW (TYP) | ⑧ THERMOPLASTIC PAVEMENT MARKINGS- LINE 12" MEDIAN LINE, YELLOW (TYP)     |
| ④ THERMOPLASTIC PAVEMENT MARKINGS- LINE 4" EDGE LINE, WHITE (TYP)             | ⑨ THERMOPLASTIC PAVEMENT MARKINGS- LINE 24" STOP BAR, WHITE (TYP)         |
| ⑤ THERMOPLASTIC PAVEMENT MARKINGS- LINE 6" CROSSWALK, WHITE (TYP)             | ⑩ THERMOPLASTIC PAVEMENT MARKINGS- LINE 24" SCHOOL CROSSWALK, WHITE (TYP) |



HORIZONTAL SCALE IN FEET



thomas engineering group, llc  
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suite 200  
aurora, illinois 60504  
phone: 855-533-1700

USER NAME = DonN	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 12/13/2016	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLANS**

SCALE: 20 SHEET 5 OF 5 SHEETS STA. 248+00 TO STA. 253+18.5

F.A.U. RTE. 3821	SECTION 15-00112-00-RS	COUNTY DUPAGE	TOTAL SHEETS 28	SHEET NO. 14
CONTRACT NO. 61D50			ILLINOIS FED. AID PROJECT	


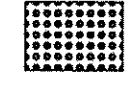


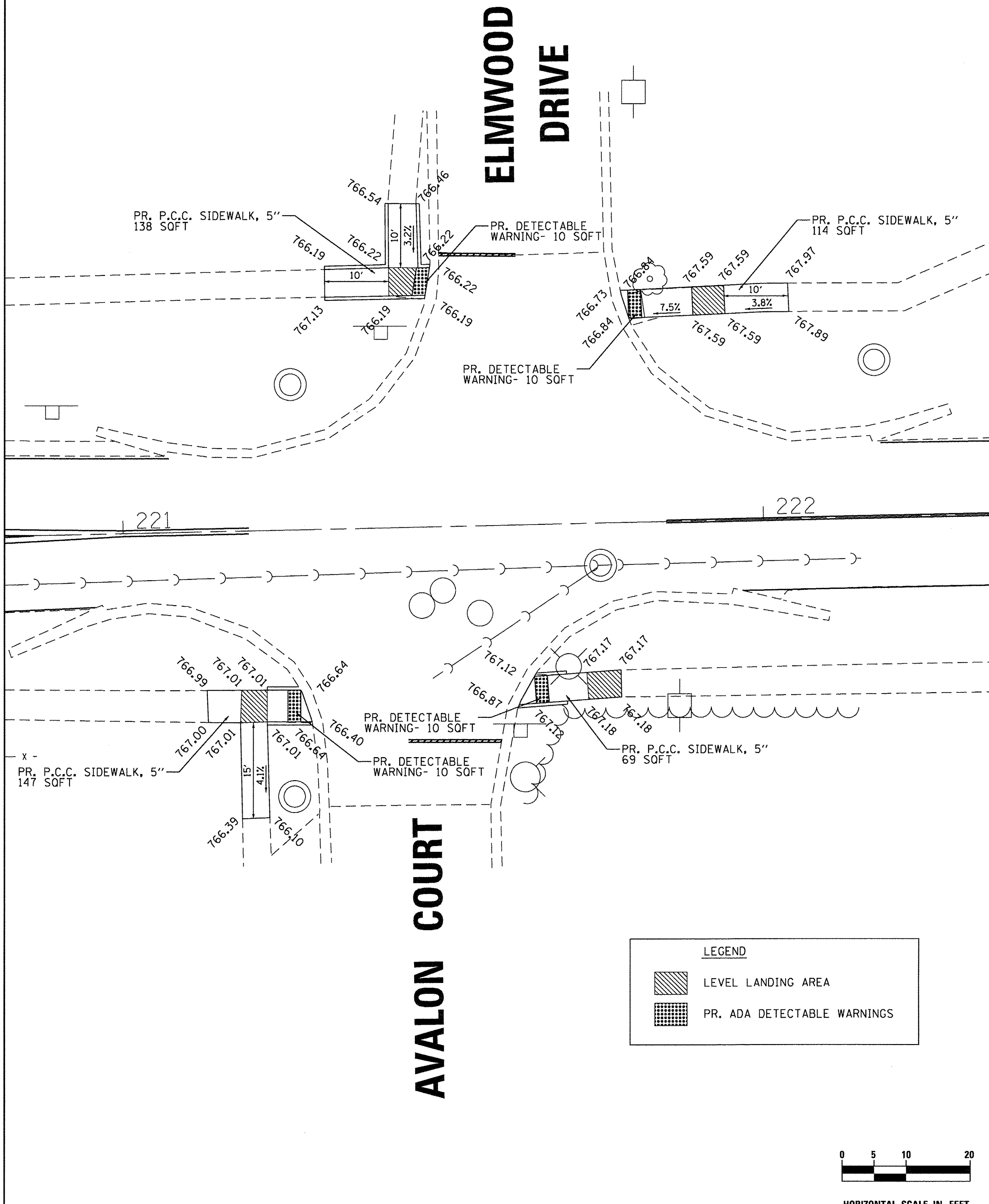
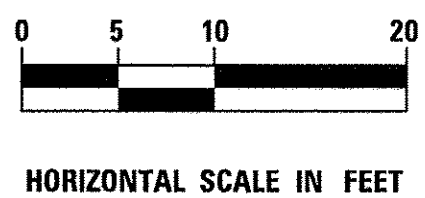
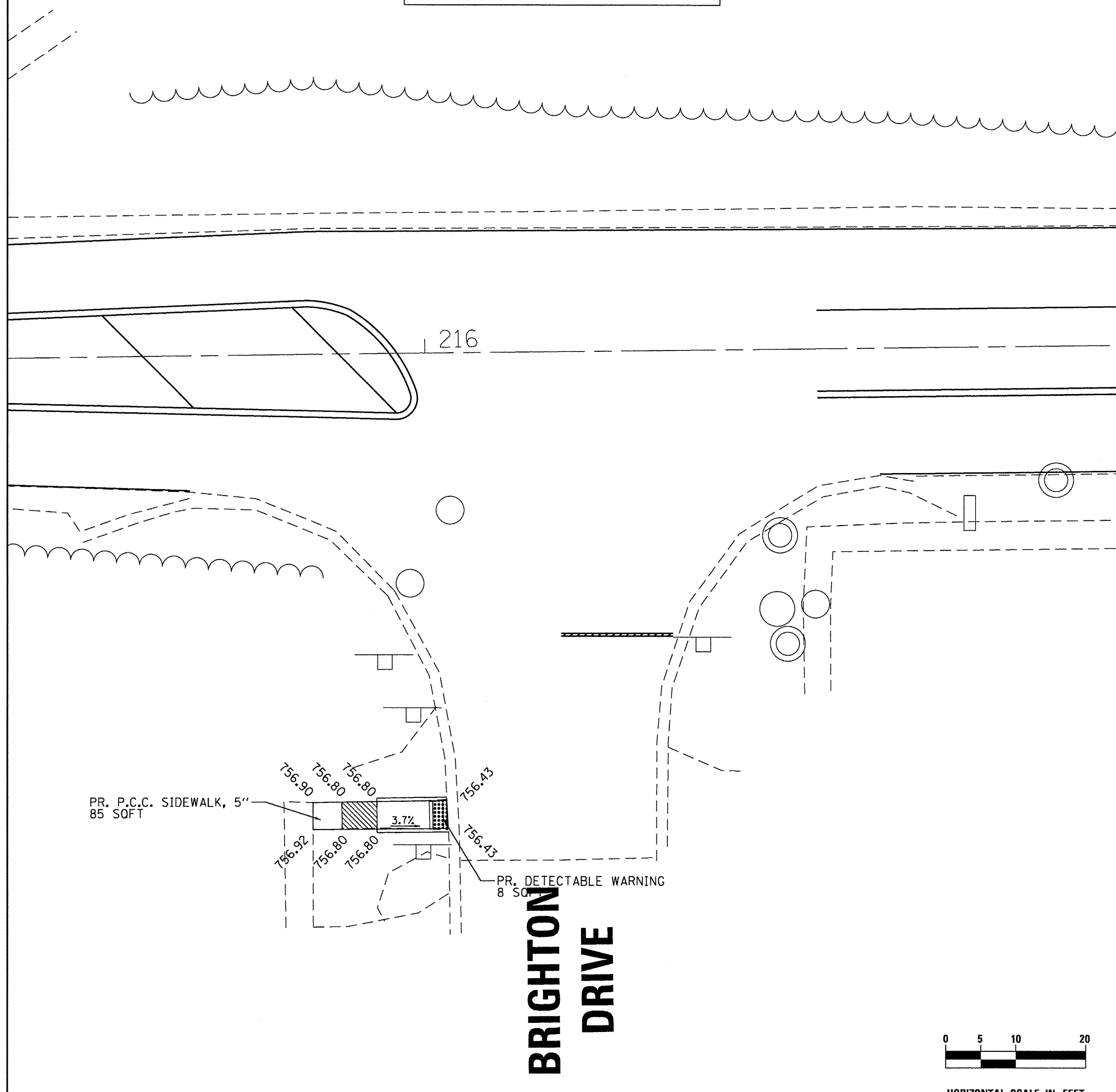





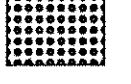


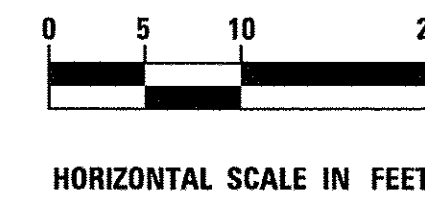
**LEGEND**

-  LEVEL LANDING AREA
-  PR. ADA DETECTABLE WARNINGS



**LEGEND**

-  LEVEL LANDING AREA
-  PR. ADA DETECTABLE WARNINGS



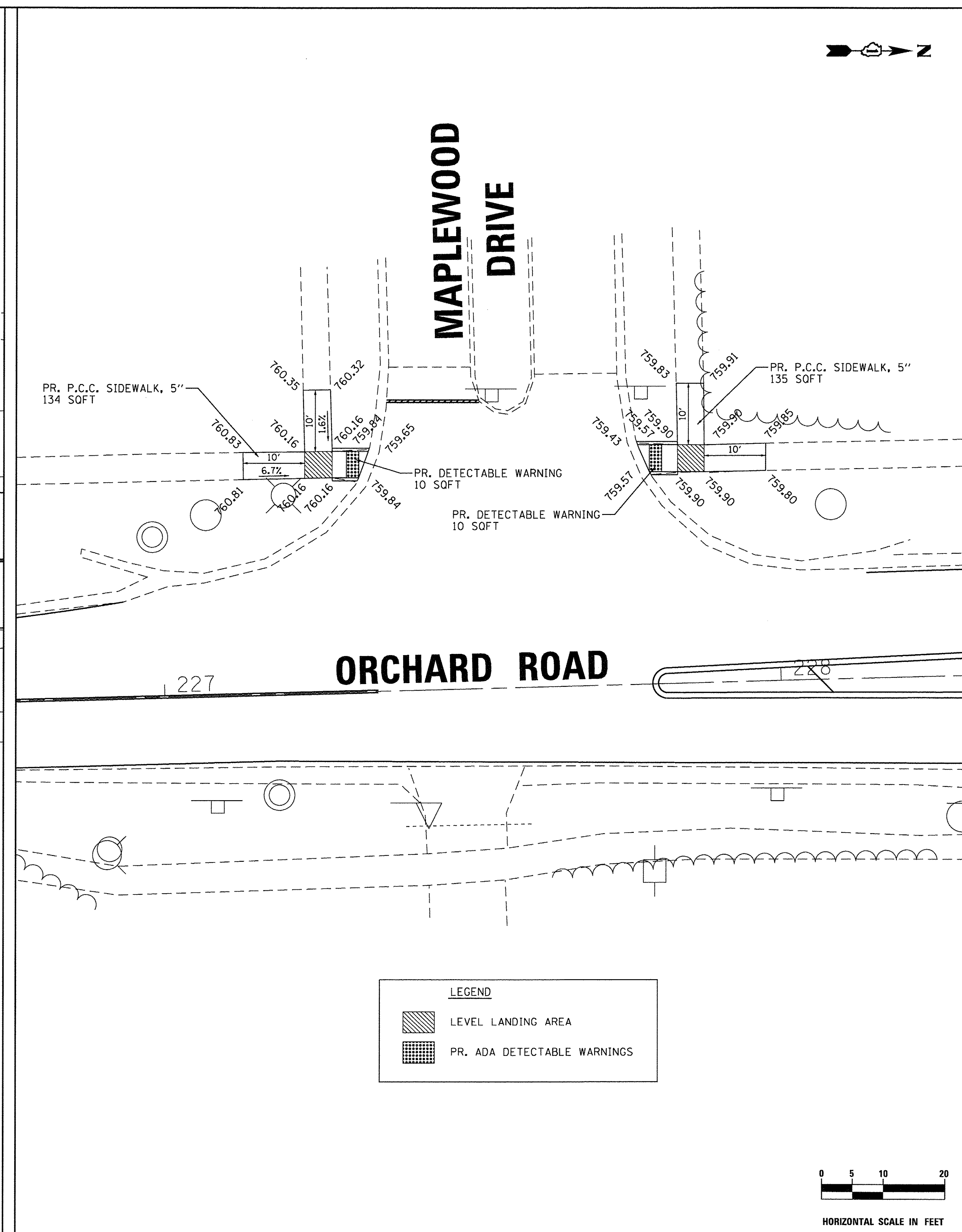
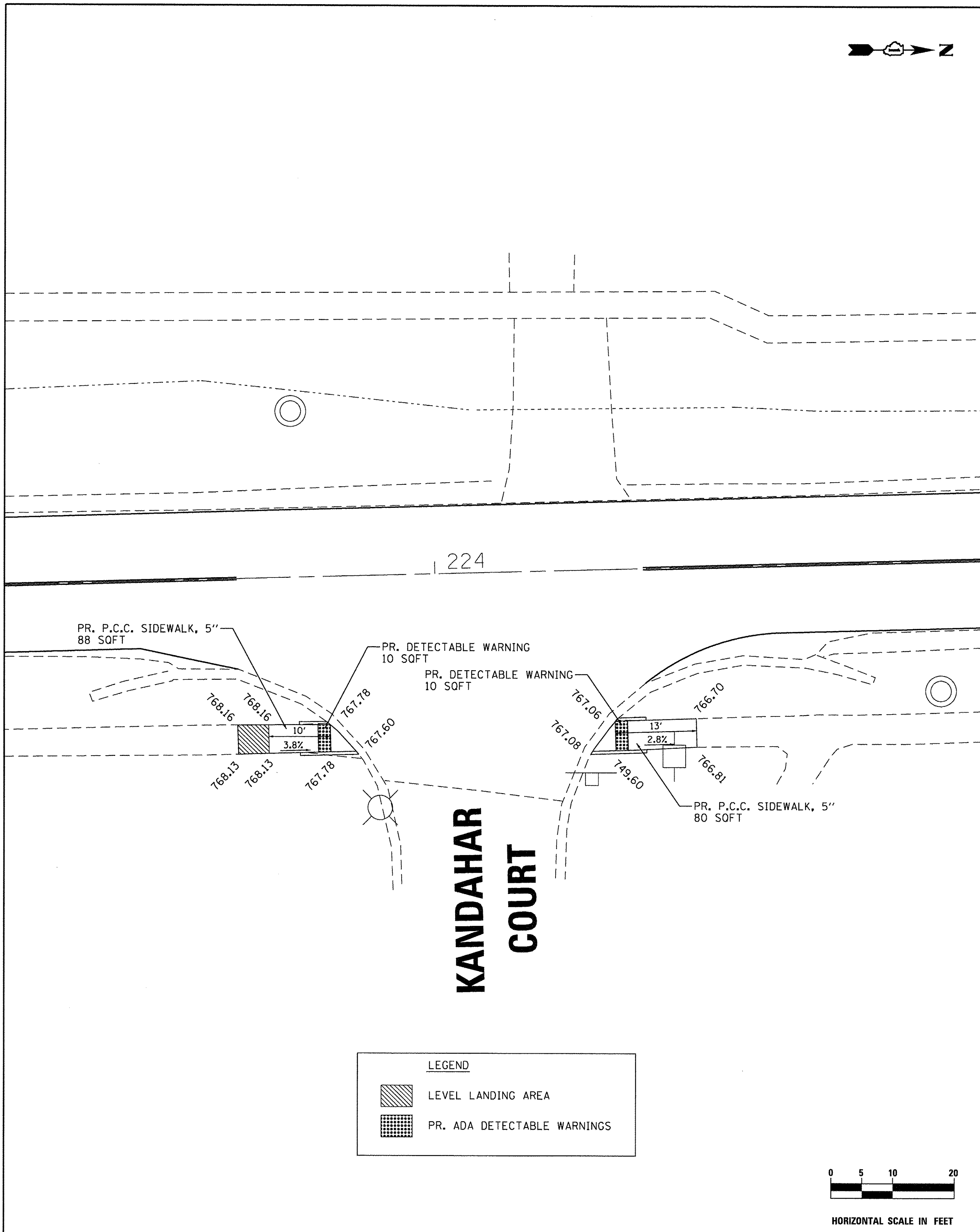
**thomas** engineering group, llc  
762 shoreline drive  
suite 200  
aurora, illinois 60504  
phone: 855-533-1700

USER NAME = Don	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 12/13/2016	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET		OF SHEETS		STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3821	15-00112-00-RS	DUPAGE	28	17
CONTRACT NO. 61D50				
ILLINOIS FED. AID PROJECT				



**thomas**  
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 service at the highest grade

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 762 shoreline drive  
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 aurora, illinois 60504  
 phone: 855-533-1700

USER NAME = DonN  
 DESIGNED -  
 DRAWN -  
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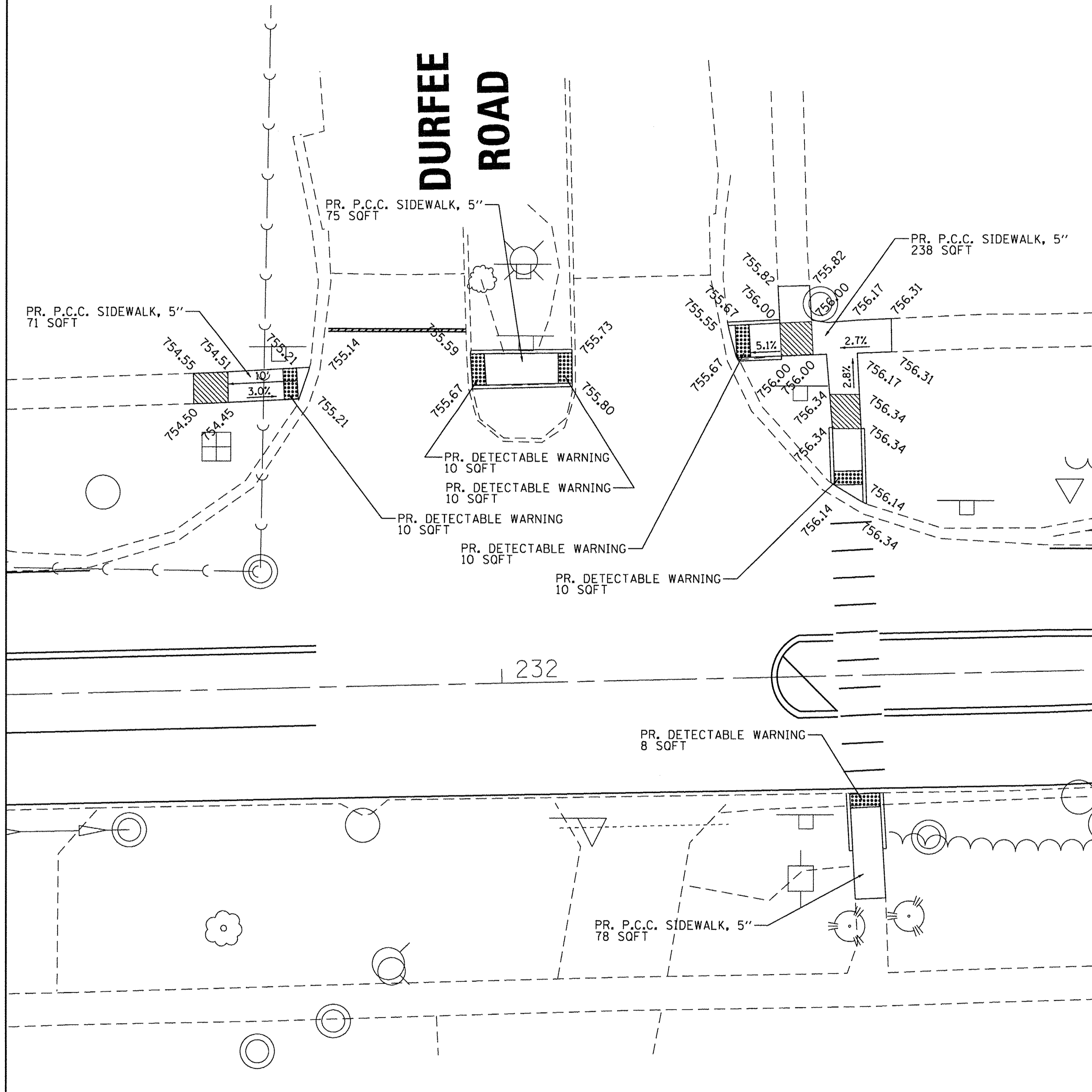
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIDEWALK PLANS**

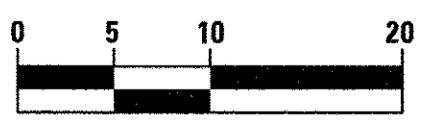
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61D50				
ILLINOIS FED. AID PROJECT				

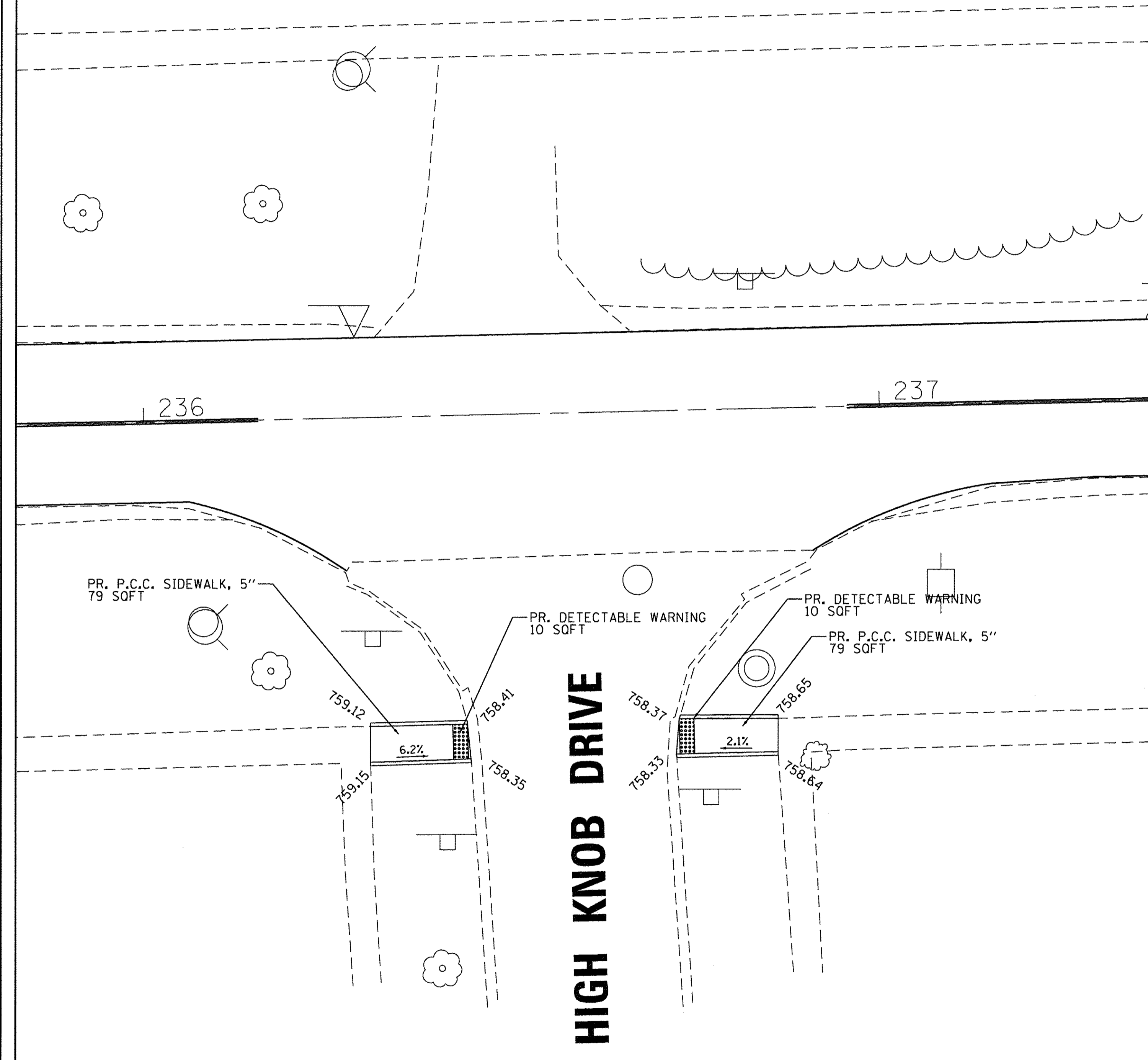


**LEGEND**

- LEVEL LANDING AREA
- PR. ADA DETECTABLE WARNINGS

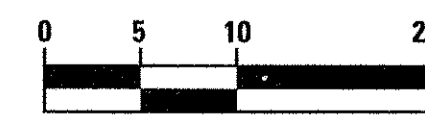


HORIZONTAL SCALE IN FEET



**LEGEND**

- LEVEL LANDING AREA
- PR. ADA DETECTABLE WARNINGS



HORIZONTAL SCALE IN FEET

**thomas** engineering group, llc  
 762 shoreline drive  
 suite 200  
 aurora, illinois 60504  
 phone: 855-533-1700

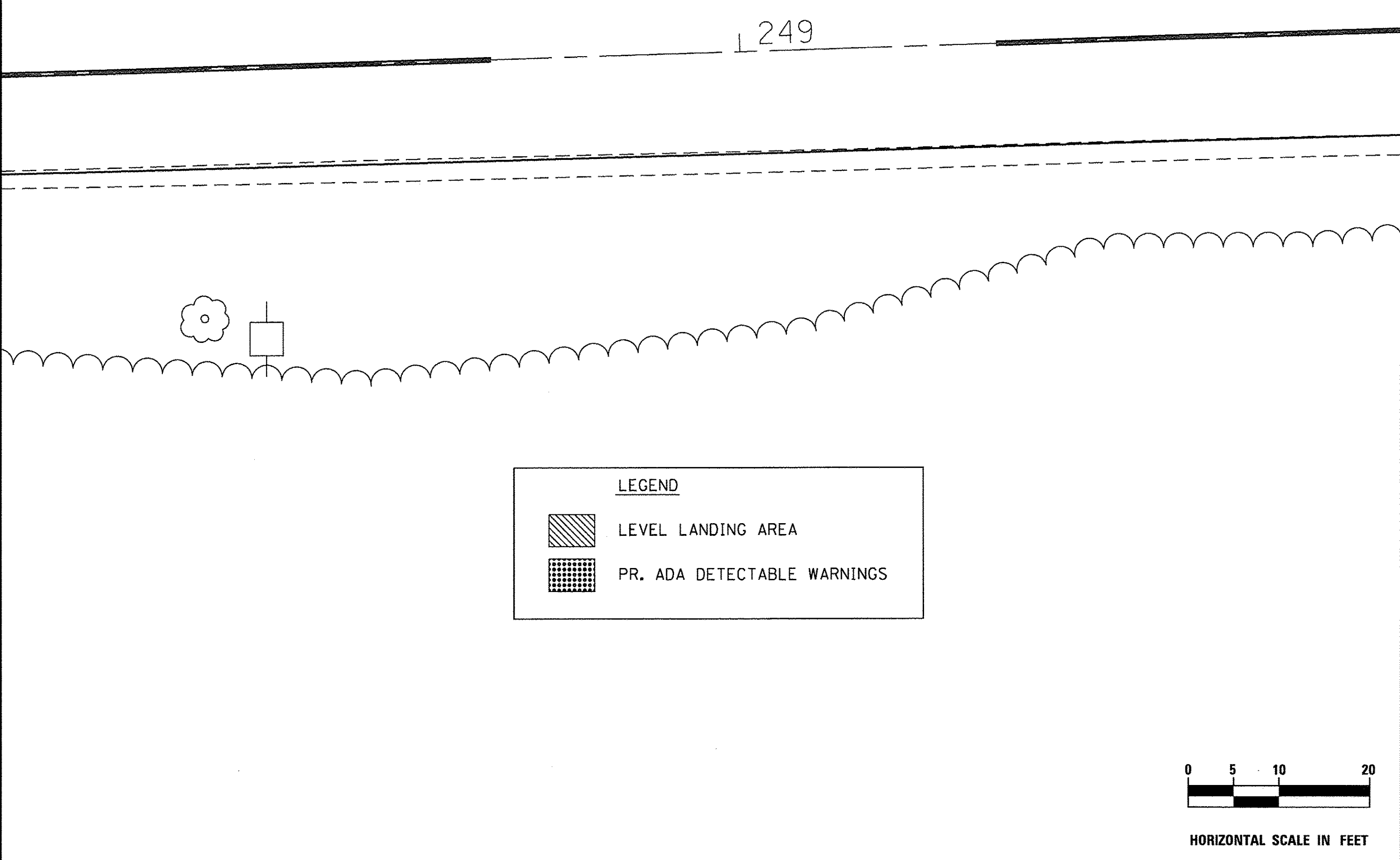
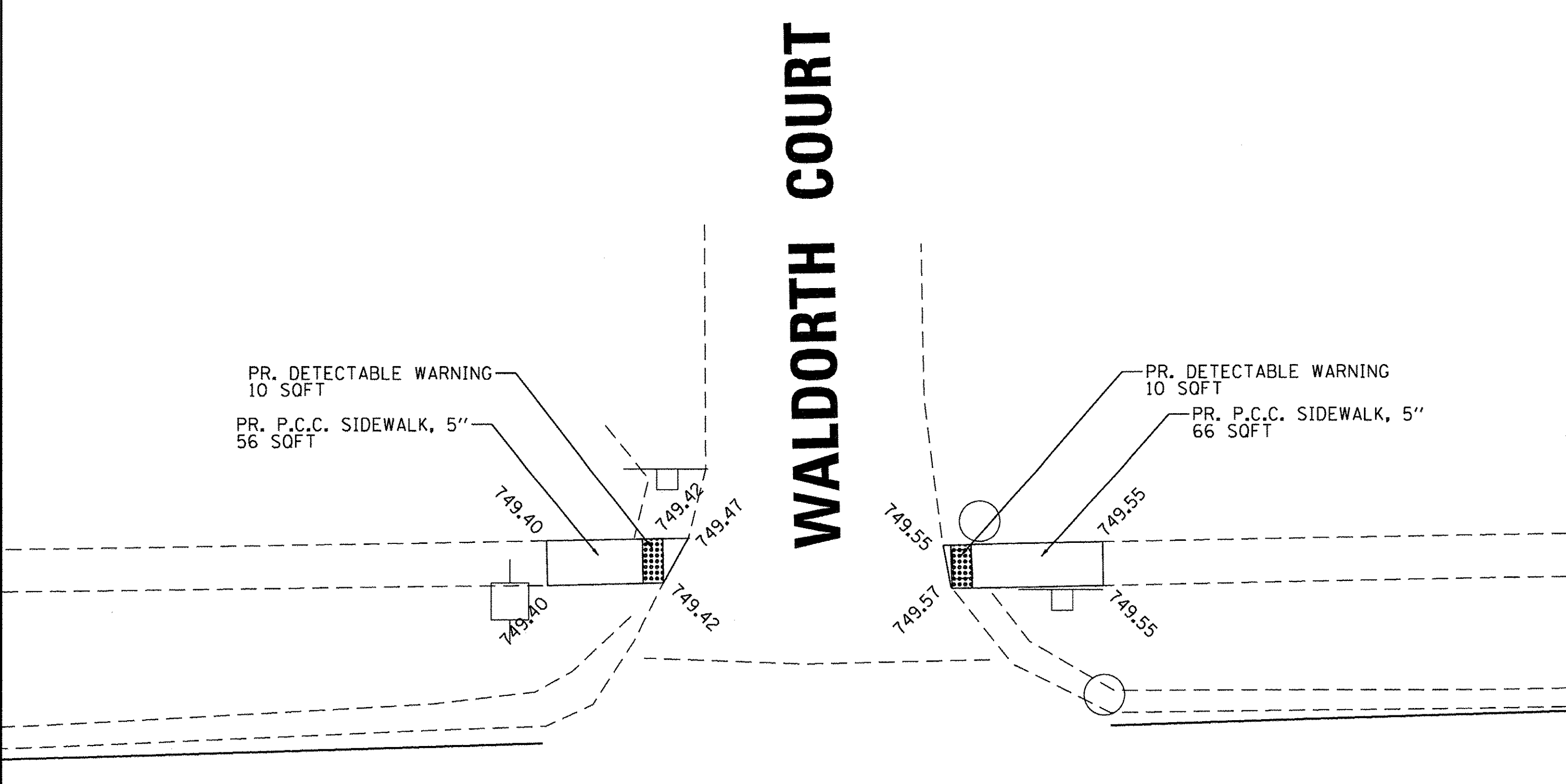
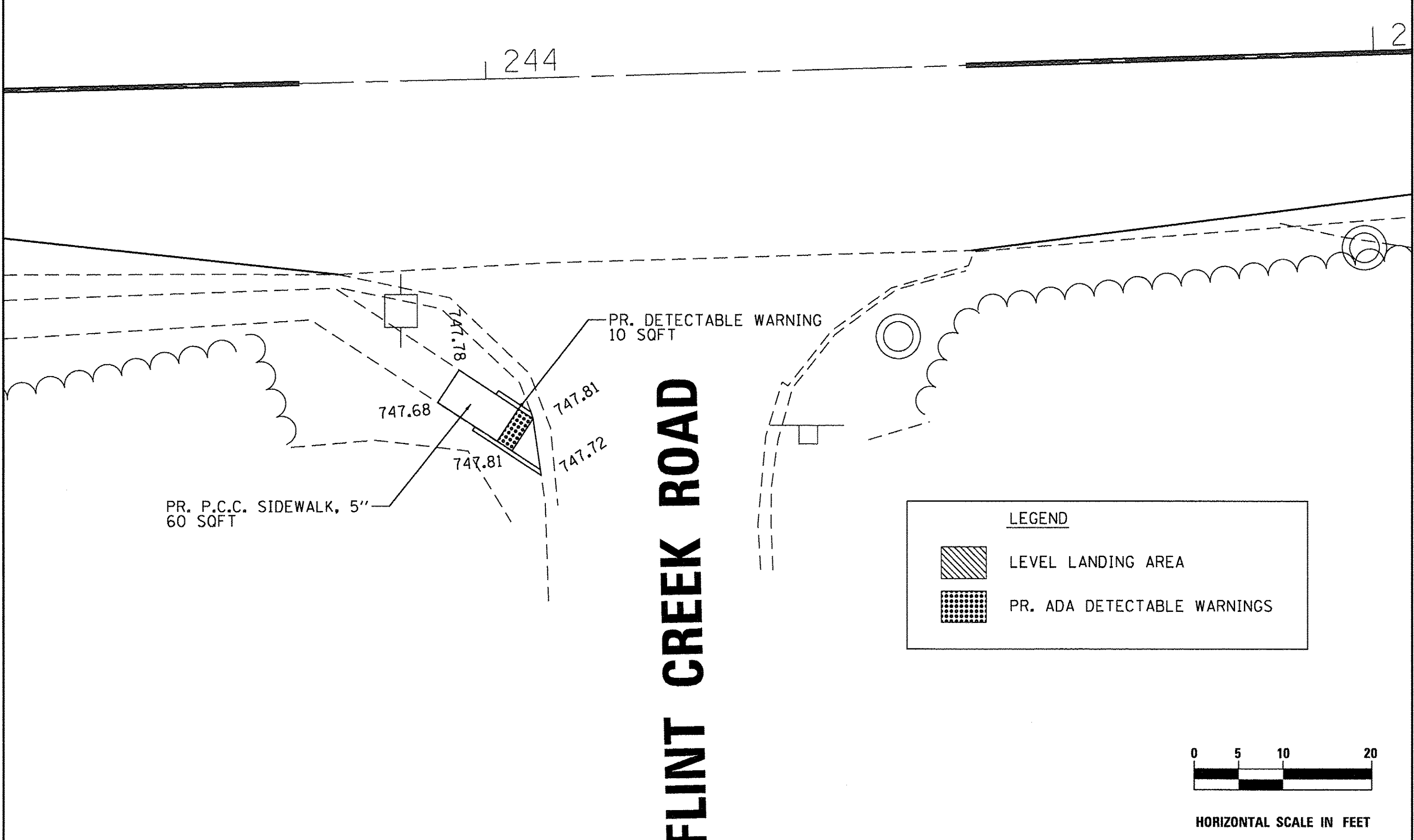
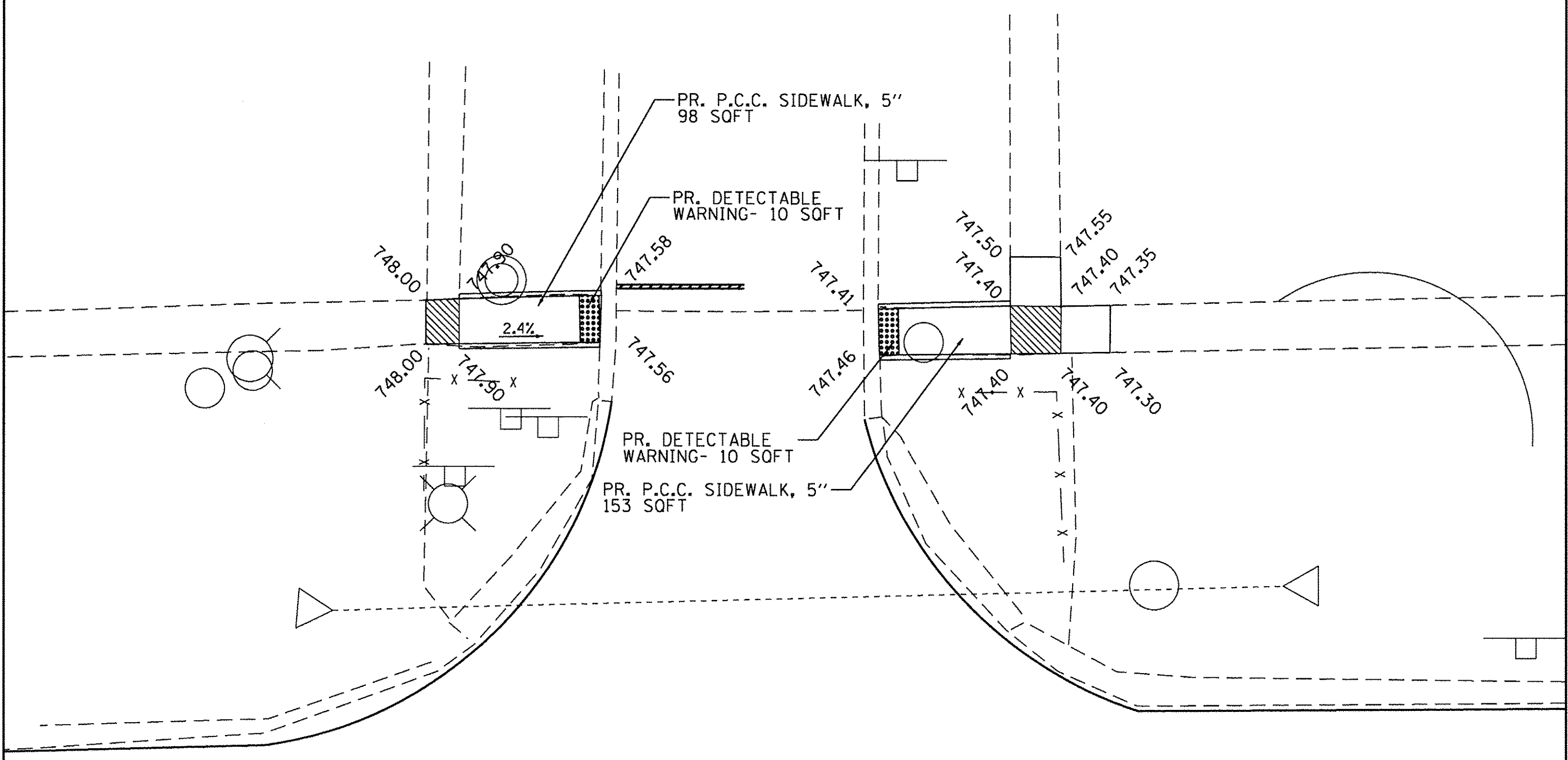
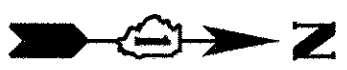
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	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIDEWALK PLANS**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3821	15-00112-00-RS	DUPAGE	28	19
CONTRACT NO. 61D50				
ILLINOIS FED. AID PROJECT				



**thomas** engineering group, llc  
762 shoreline drive  
suite 200  
aurora, illinois 60504  
phone: 855-533-1700

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SIDEWALK PLANS**

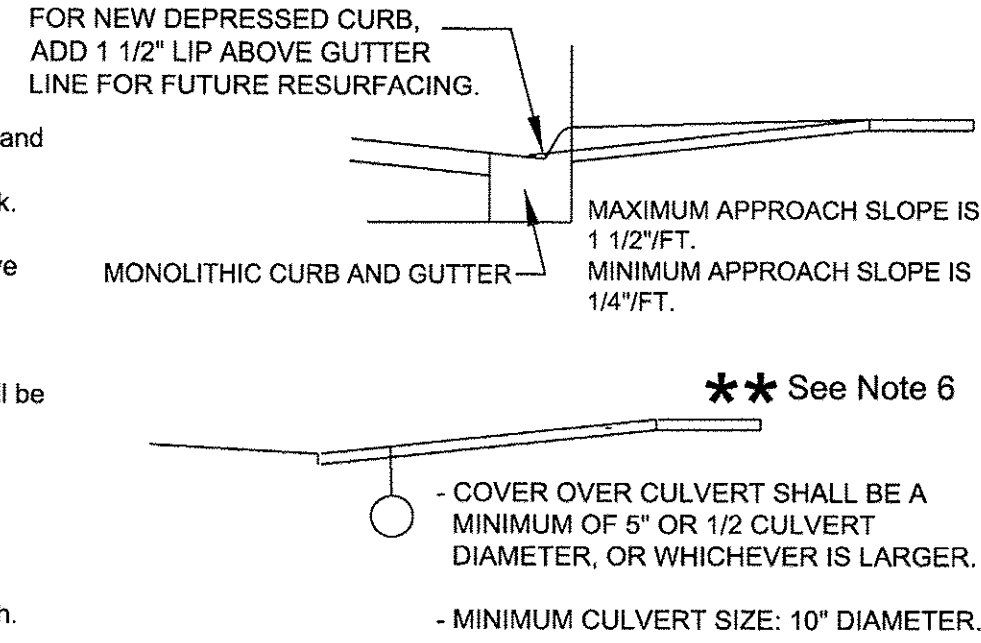
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3821	15-00112-00-RS	DUPAGE	28	20
CONTRACT NO. 61D50				
ILLINOIS FED. AID PROJECT				

**GENERAL STANDARDS**

1. All Portland Cement Concrete shall conform to Illinois Department of Transportation Class SI mix.
2. Where new concrete work meets or abuts any existing concrete structures, the existing concrete shall be saw cut to a straight and clean edge and expansion material placed between the new and existing work.
3. Expansion material is also required between new curb and new concrete approaches; new sidewalk and new concrete driveways; and new curb and new sidewalk.
4. A culvert will be required where the street does not have curb and gutter.
5. Replacement of barrier curb and gutter with depressed curb and gutter to be with a single pour. Gutter shall be a minimum of 8" thick.
6. Wire mesh is not required.
7. Pea gravel is not allowed as fill or base material.
8. All curb replacements shall be a minimum of 5' in length.

**DRIVE APPROACH & SIDEWALK**



**RESIDENTIAL APPROACH**

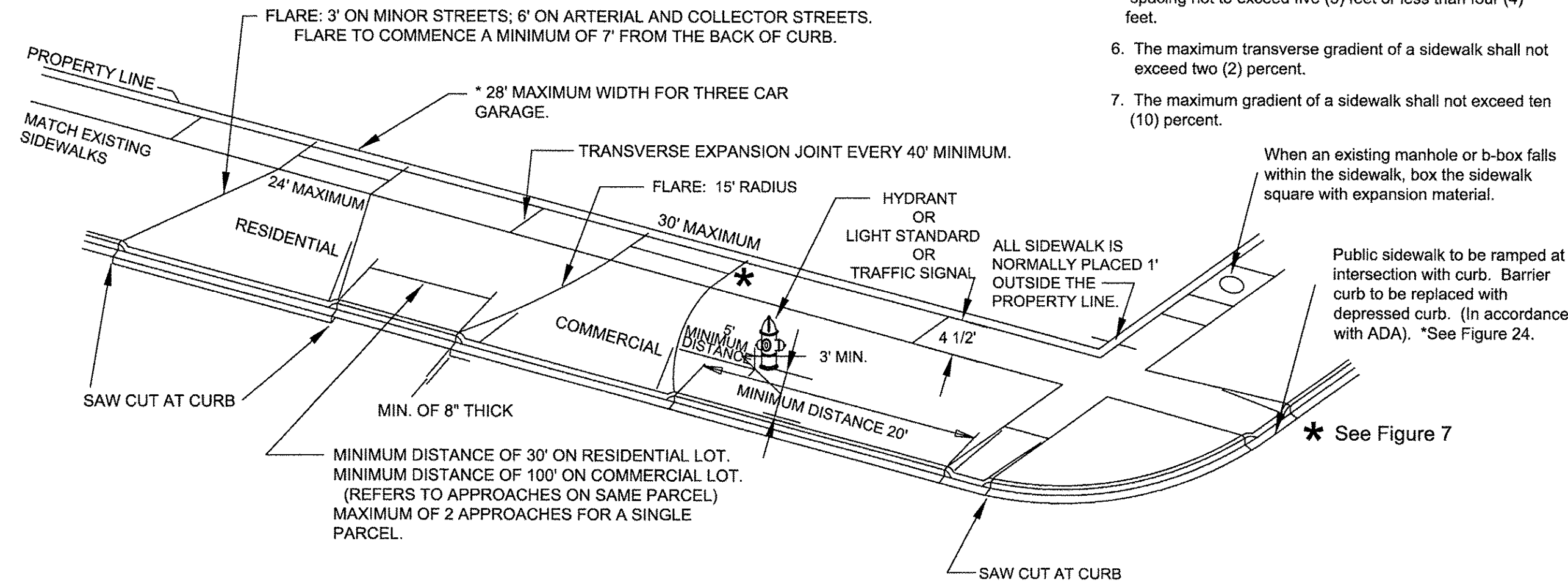
1. Shall be 5" thick, Portland Cement Concrete, Class SI
2. 1 1/2" Bituminous Concrete, Class I-11 on an 8" thick aggregate base
3. Brick pavers shall be constructed in accordance with the manufacturer's specifications. Manufacturer's specifications must be submitted as part of the permit application.

**COMMERCIAL APPROACH**

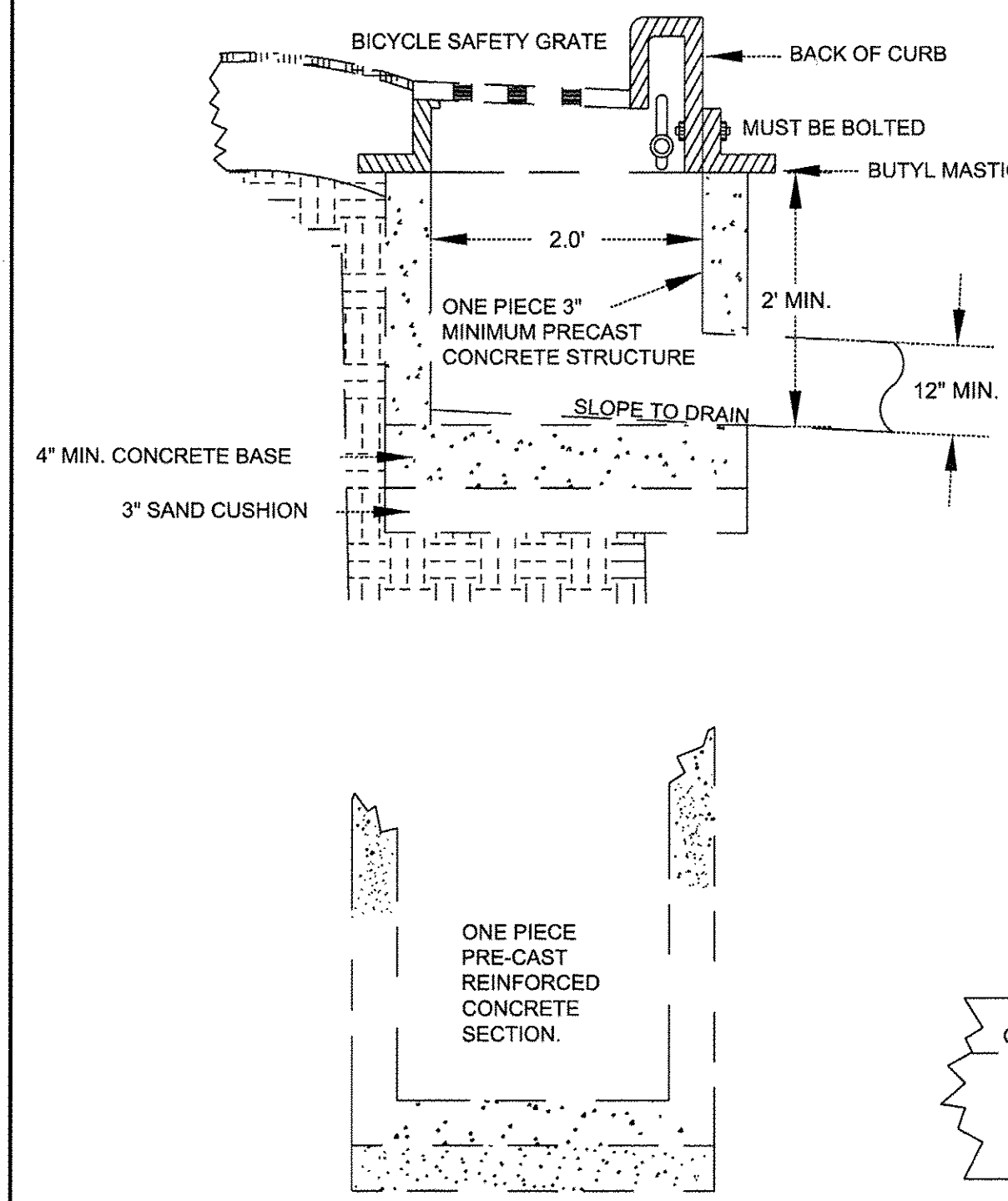
1. 6" thick, Portland Cement Concrete, Class SI (Bituminous is not permitted)

**SIDEWALK**

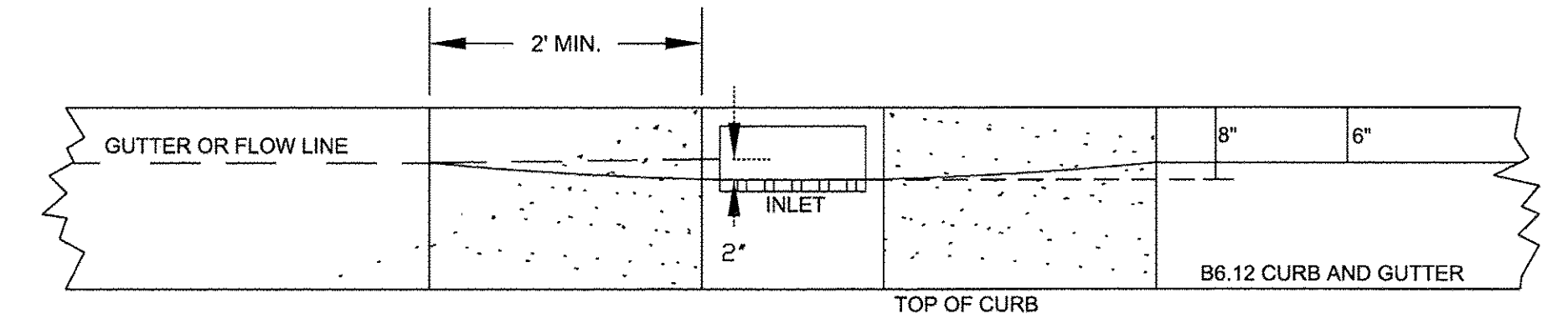
1. 4" thick, Portland Cement Concrete on a compacted crushed aggregate or bank run gravel base.
2. 5" thick through Residential Approaches
3. 6" thick through Commercial Approaches
4. Walk shall be no lower than the centerline of the street.
5. The sidewalk shall have scored transverse joints at equal spacing not to exceed five (5) feet or less than four (4) feet.
6. The maximum transverse gradient of a sidewalk shall not exceed two (2) percent.
7. The maximum gradient of a sidewalk shall not exceed ten (10) percent.



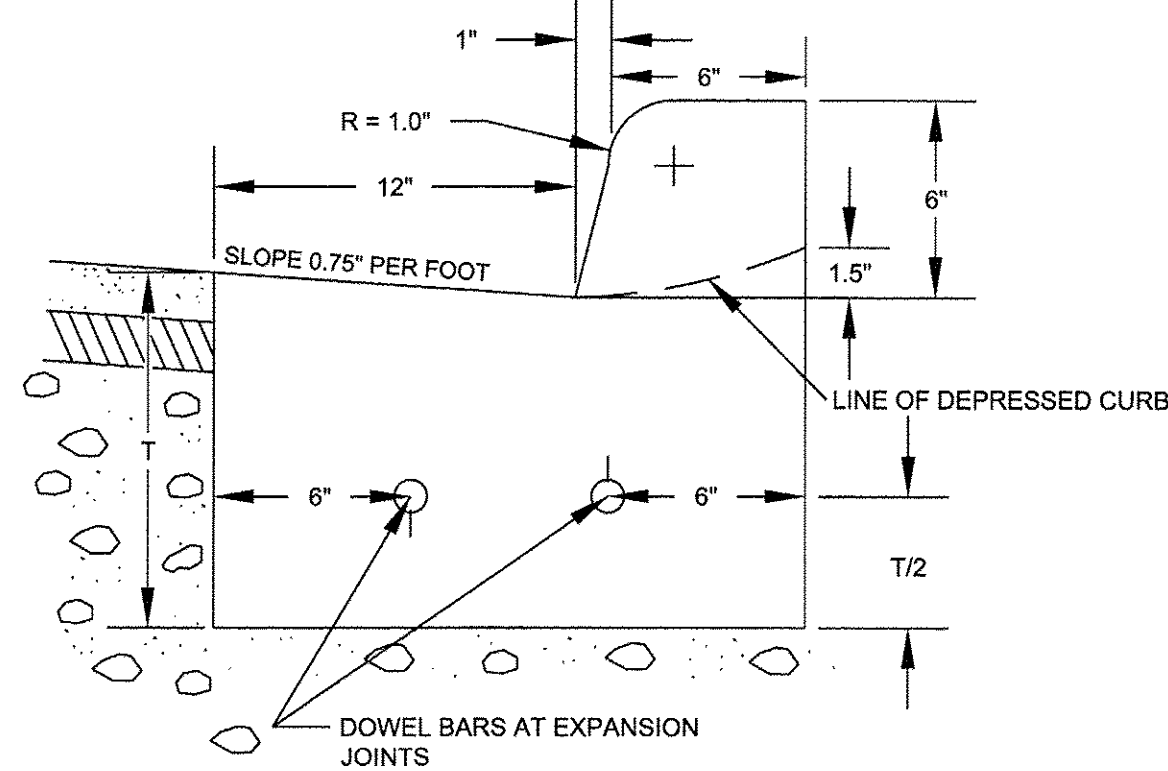
**TRANSITION CURB AT INLET OR C.B.**



1. A MAXIMUM ADJUSTMENT OF 8" USING 2 (TWO) RUBBER RINGS IS ALLOWED. A MINIMUM OF 1 (ONE) RUBBER RING SHOULD BE INSTALLED BETWEEN THE FRAME AND STRUCTURE
2. BRICKS ARE NOT PERMITTED FOR ADJUSTMENTS.
3. FOR ROLLED AND/OR BARRIER CURB USE NEENAH R-3010 OR EJIW 7045Z FRAME, 7040M1 GRATE AND 7050T1 CURB BACK OR US FOUNDRY 5132.
4. ALL JOINTS BETWEEN BARREL SECTION, RISER, AND CASTING SHALL BE SEALED WITH FLEXIBLE BUTYL MASTIC MATERIAL 2-1/4" WIDE AND 3/8" THICK OR ENGINEER APPROVED SUBSTITUTE. MORTAR IS NOT ALLOWED.
5. THE GRATE SHALL BE A BICYCLE SAFETY GRATE.
6. REFERENCE: STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, MAY 1996, SECTION 33.
7. ANY SUBSTITUTIONS MUST BE APPROVED BY THE CITY ENGINEER.
8. 2' INSIDE DIAMETER TO BE USED AT END OF PIPE RUN ONLY. IN ALL INSTANCES WHERE 2 OR MORE PIPES ENTER OR EXIT C.B., 4' INSIDE DIAMETER STRUCTURE MUST BE USED.
9. MINIMUM PIPE DIAMETER IS 12" ON 2' STRUCTURE.
10. ANY NEW FRAME BACKS MUST HAVE STAMPED FISH SYMBOL PER NPDES REQUIREMENTS.



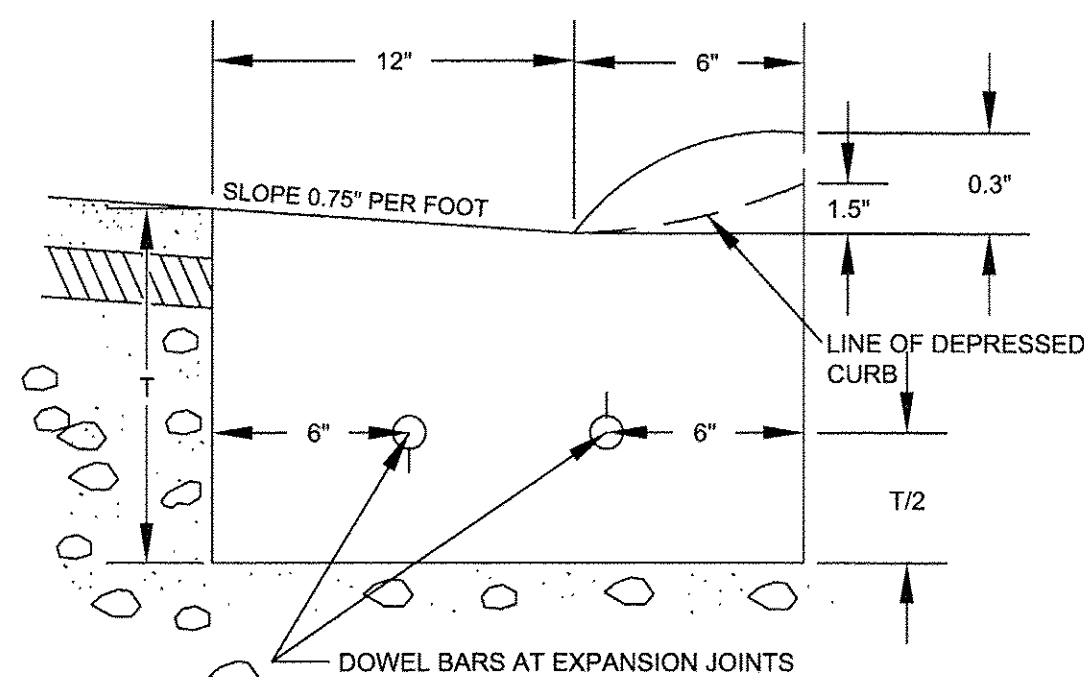
**BARRIER CURB AND GUTTER TYPE B 6.12**



T = THICKNESS OF PAVEMENT

- NOTE:
1. TWO NO.6 STEEL DOWEL BARS WITH CAPS TO BE USED AT ALL EXPANSION JOINTS 100 ft. INTERVALS.
  2. CONSTRUCTION JOINTS AT 25 ft. INTERVALS.
  3. THREE 3/8" RE-BARS AT ALL TRENCH CROSSINGS. BARS TO EXTEND TWO FEET BEYOND EDGE OF TRENCH AND HAVE A MINIMUM LENGTH OF 10 FT.
  4. THE BASE COURSE WILL BE OF A DEPTH SUFFICIENT TO BRING THE CURB AND GUTTER TO THE PROPOSED GRADE.
  5. THE BASE COURSE LOCATED UNDER THE CURB AND GUTTER WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR COMBINATION CONCRETE CURB AND GUTTER OF THE TYPE SPECIFIED.
  6. SEE ALSO STANDARD 00001-06

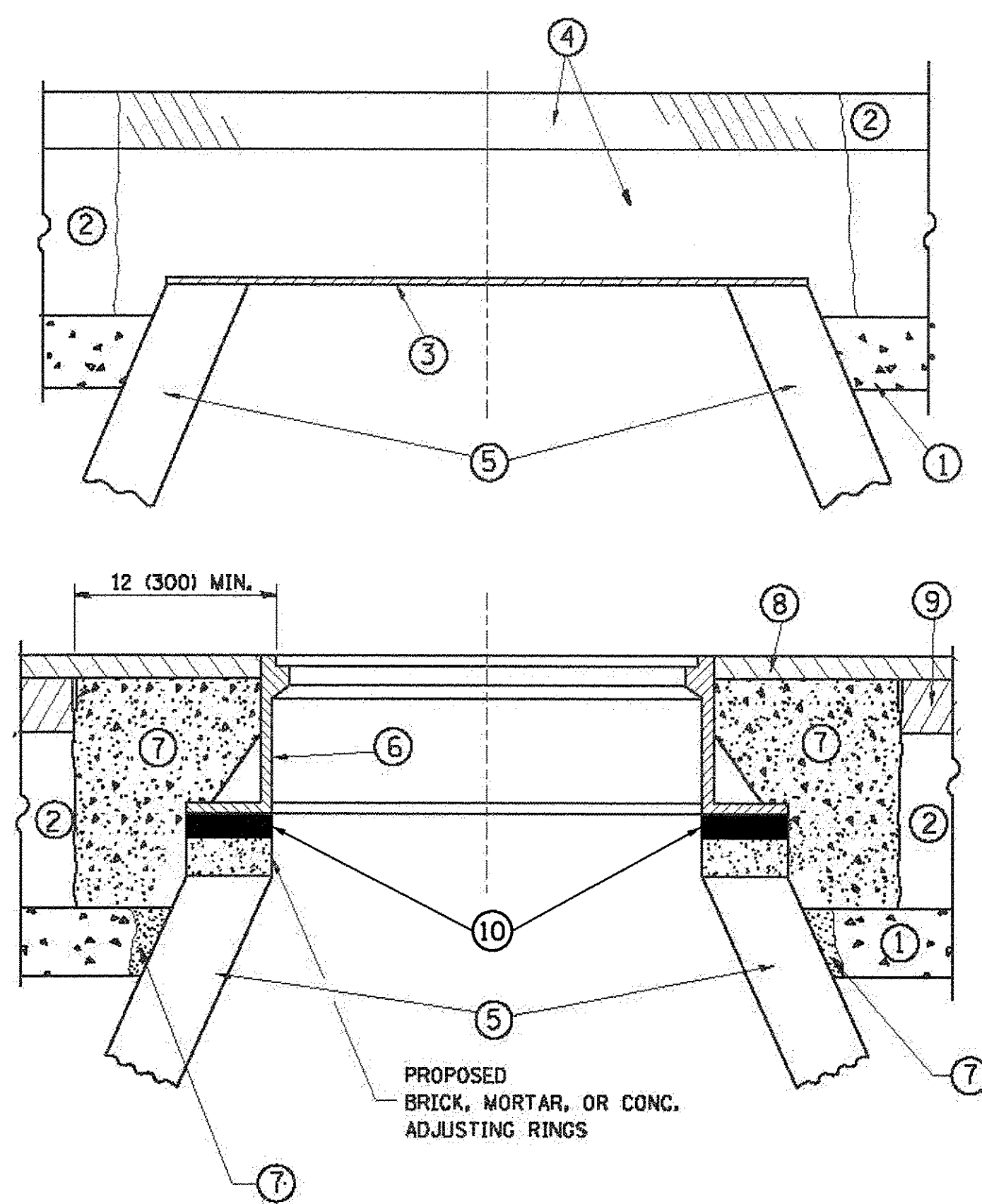
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F.A.U. RTE. 3821	SECTION 15-00112-00-R5	COUNTY DUPAGE	TOTAL SHEETS 28	SHEET NO. 21
CONTRACT NO. 61D50				
ILLINOIS FED. AID PROJECT				

# FRAMES AND LIDS ADJUSTMENT WITH MILLING



- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36" DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1 CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE
- ⑩ PROPOSED RUBBER ADJUSTMENT RISER RING

## STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12" OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36" DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1 1/2" THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

## STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION. A MINIMUM OF ONE RUBBER ADJUSTMENT RISER RING SHALL BE USED.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1 CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

• UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

## LOCATION OF STRUCTURES:

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

## BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR AS "STRUCTURE TO BE ADJUSTED," OF THE TYPE OF STRUCTURE SPECIFIED.

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

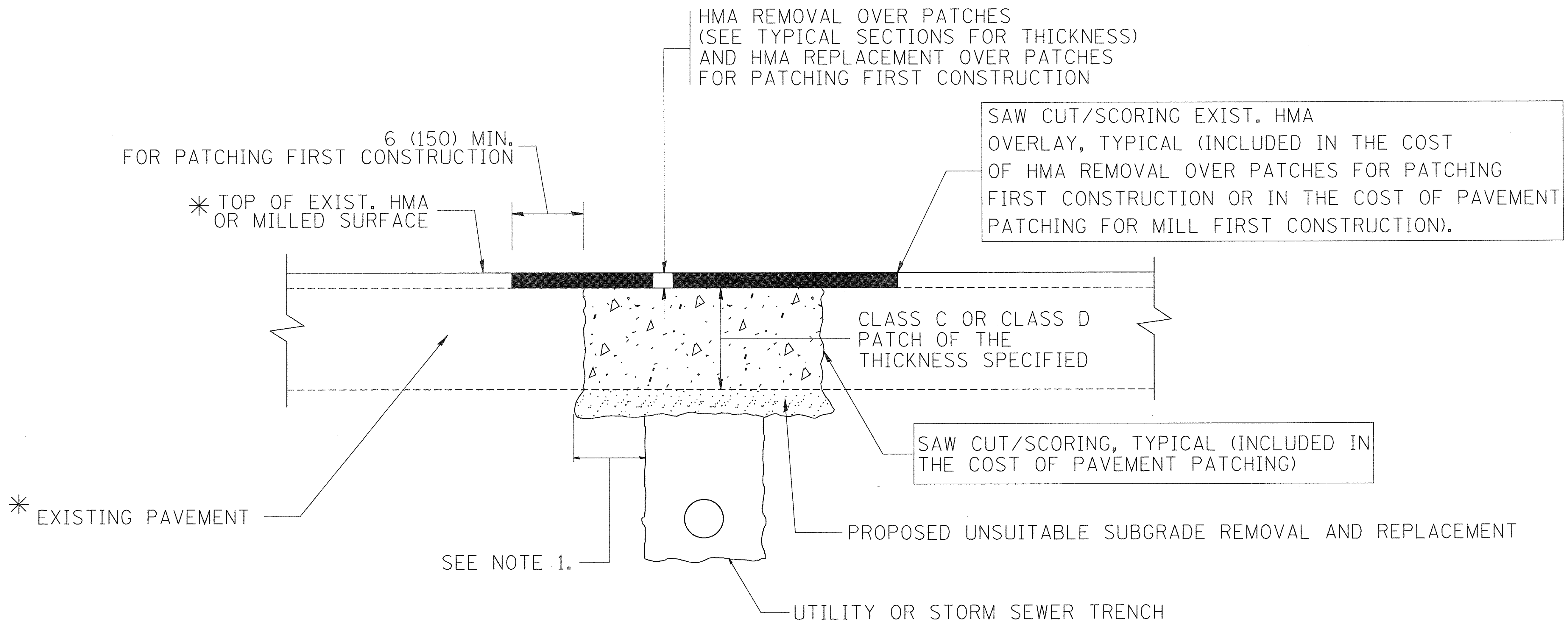
## NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

**SEQUENCE OF CONSTRUCTION (PATCHING FIRST)**

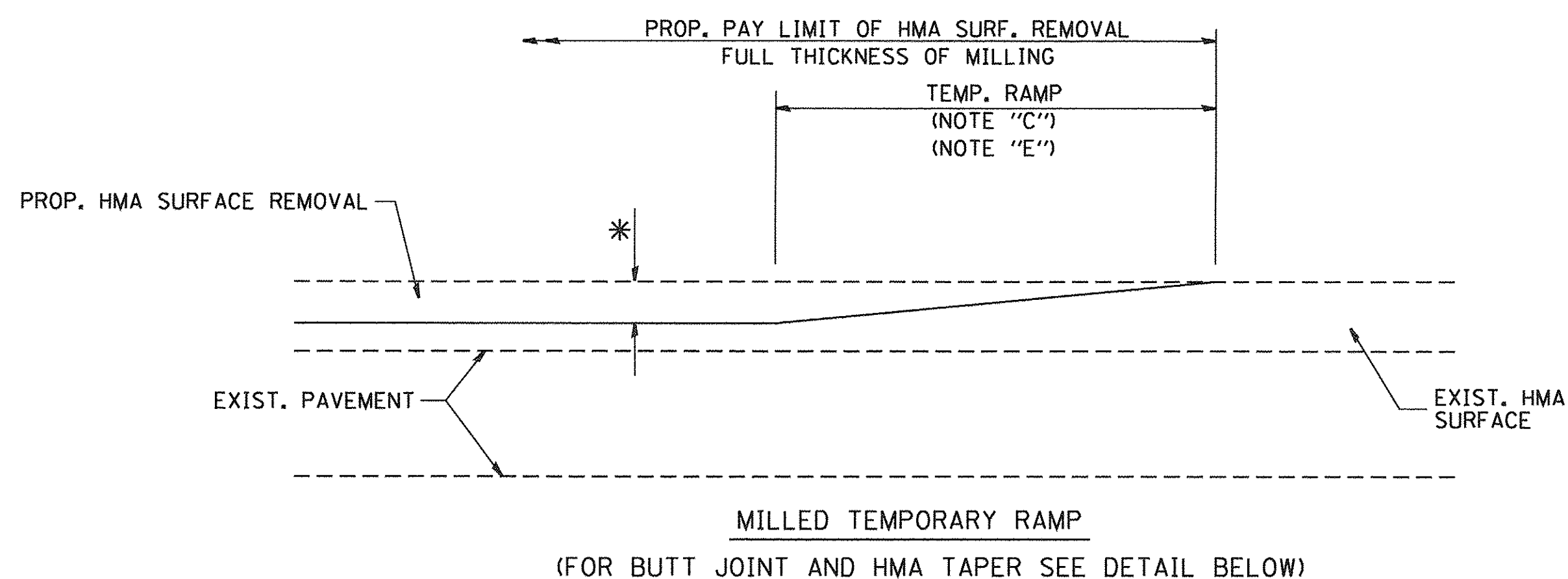
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

**SEQUENCE OF CONSTRUCTION (MILLING FIRST)**

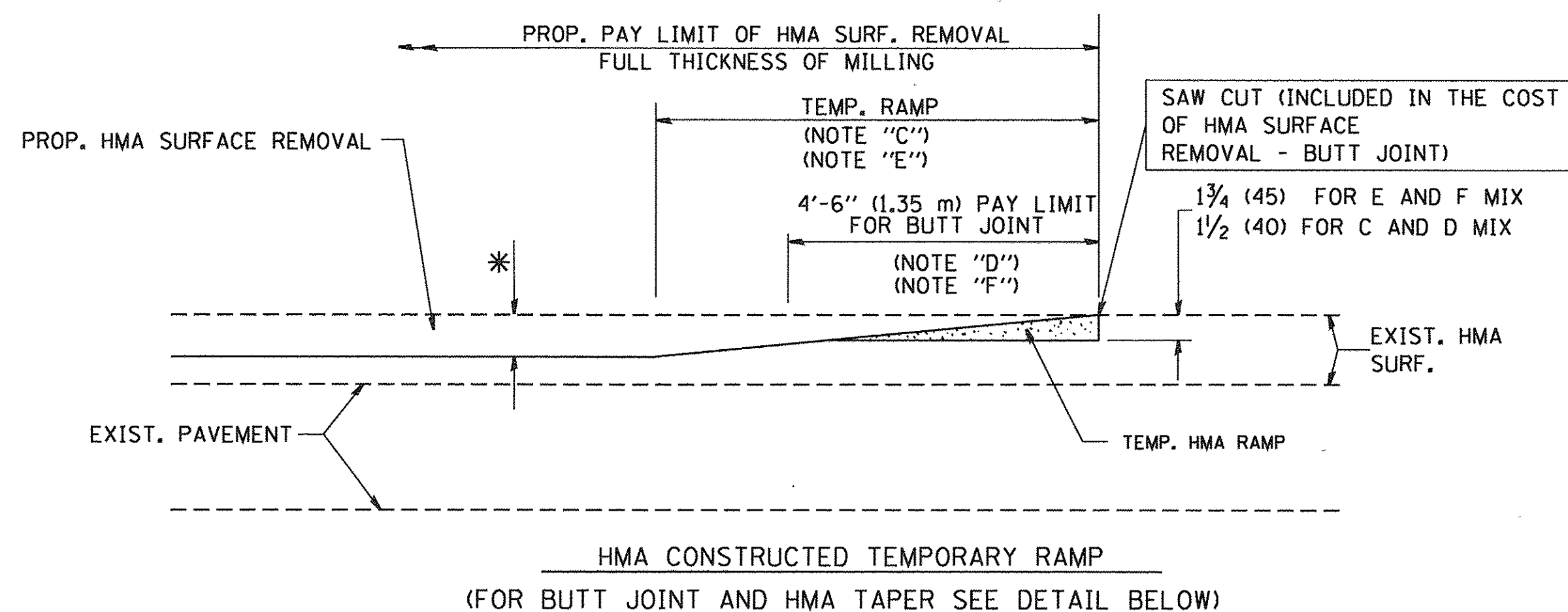
1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

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	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - R. BORO 09-04-07		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
			REVISED - K. ENG 10-27-08									

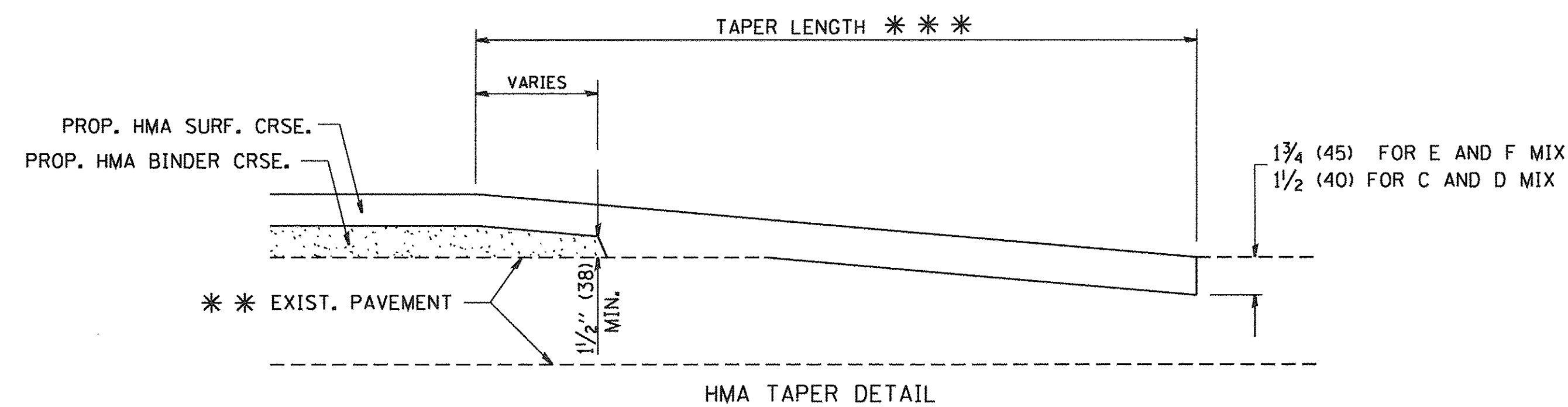
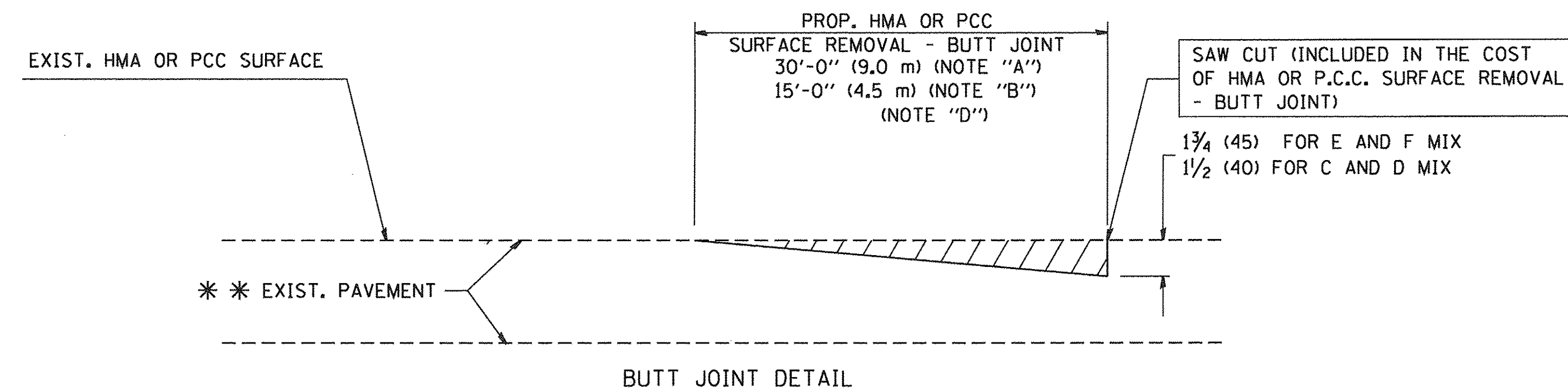


**OPTION 1**



**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\* \* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

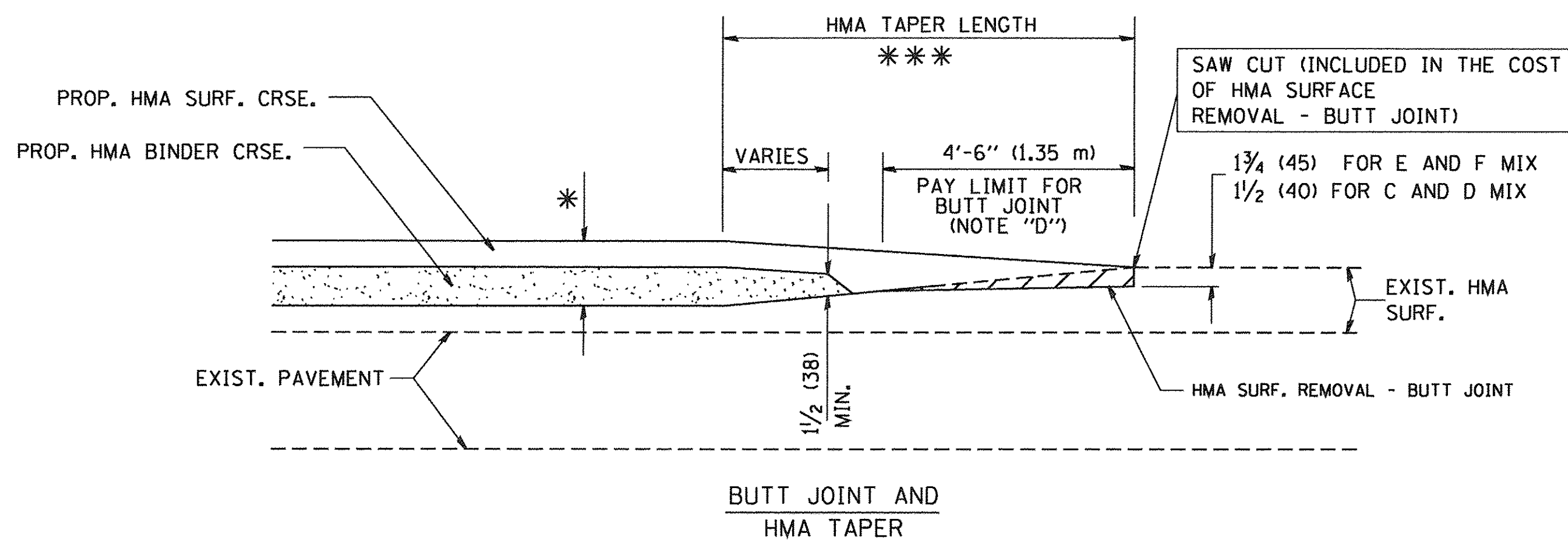
**NOTES**

- 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.



**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

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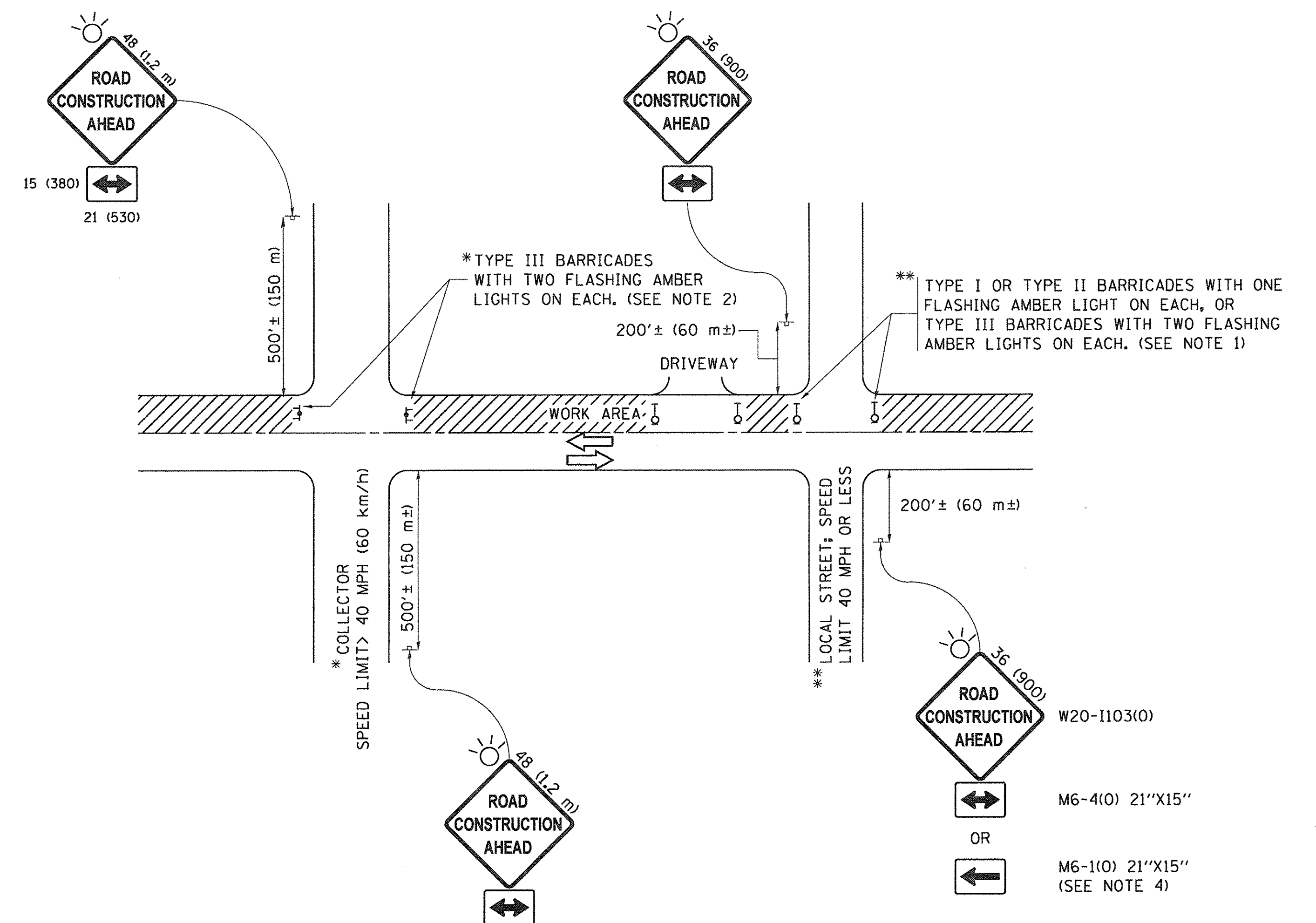
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND  
HMA TAPER DETAILS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3821	15-00112-00-RS	DUPAGE	28	24
BD400-05 BD32		CONTRACT NO. 61D50		
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.

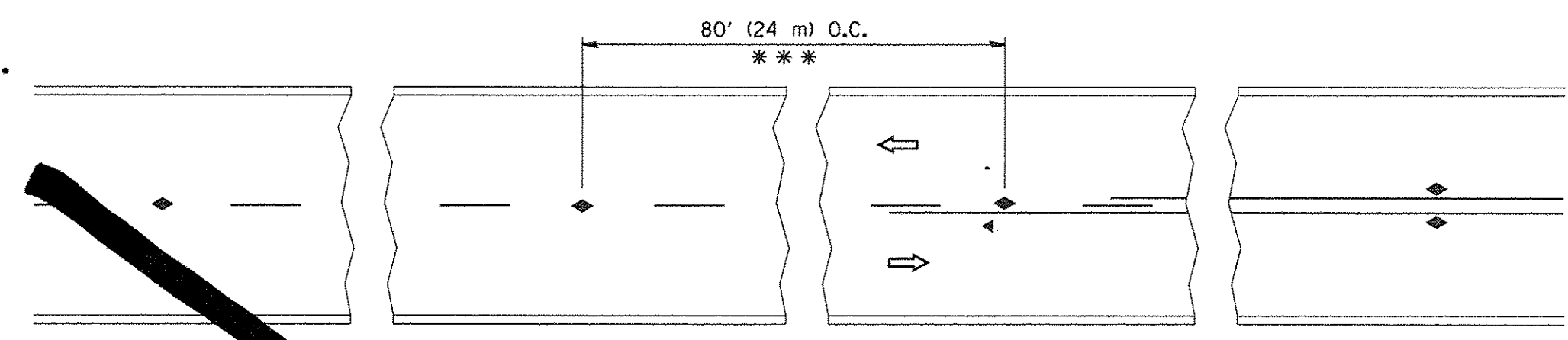
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	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

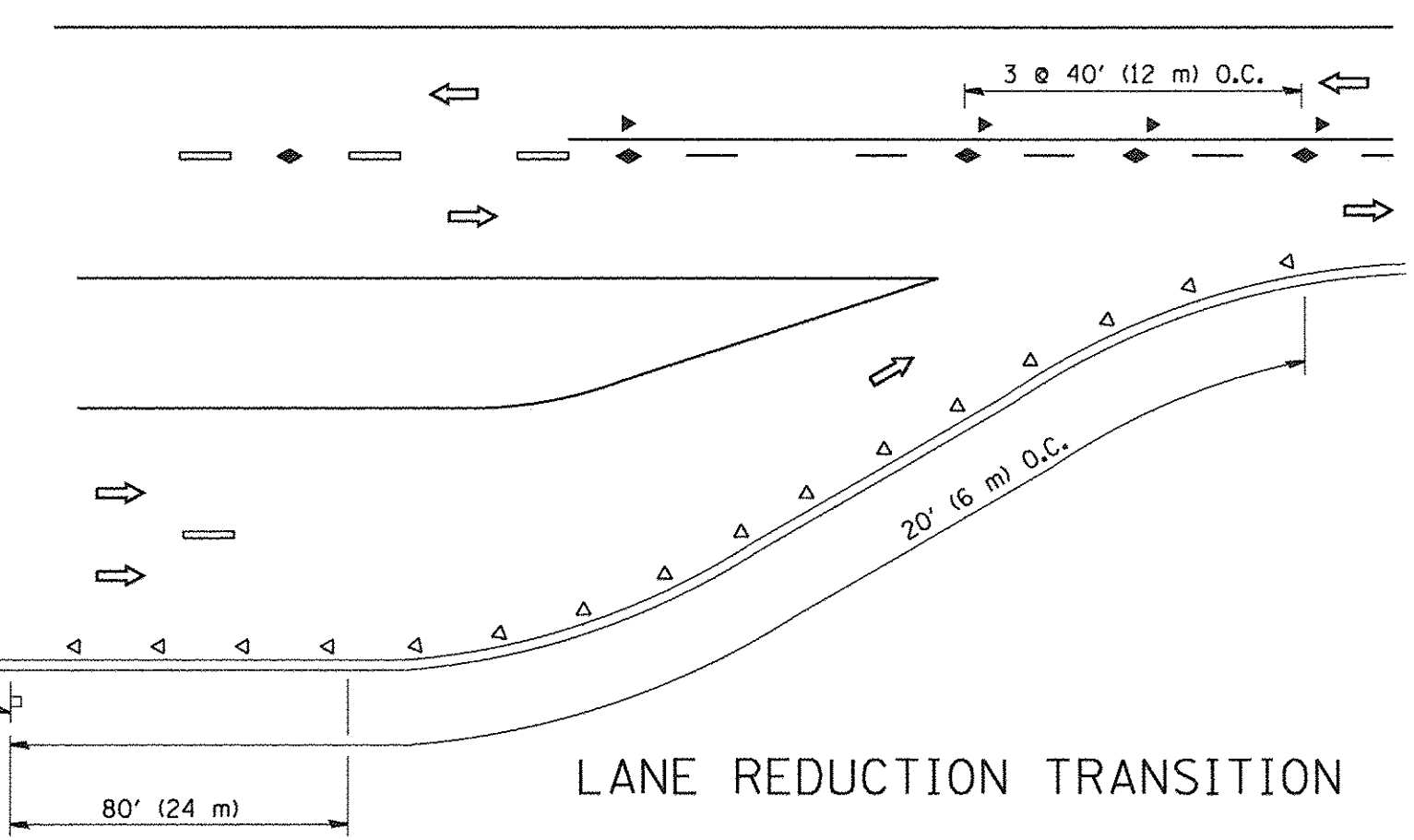
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TC-10			CONTRACT NO. 61D50	
ILLINOIS FED. AID PROJECT				

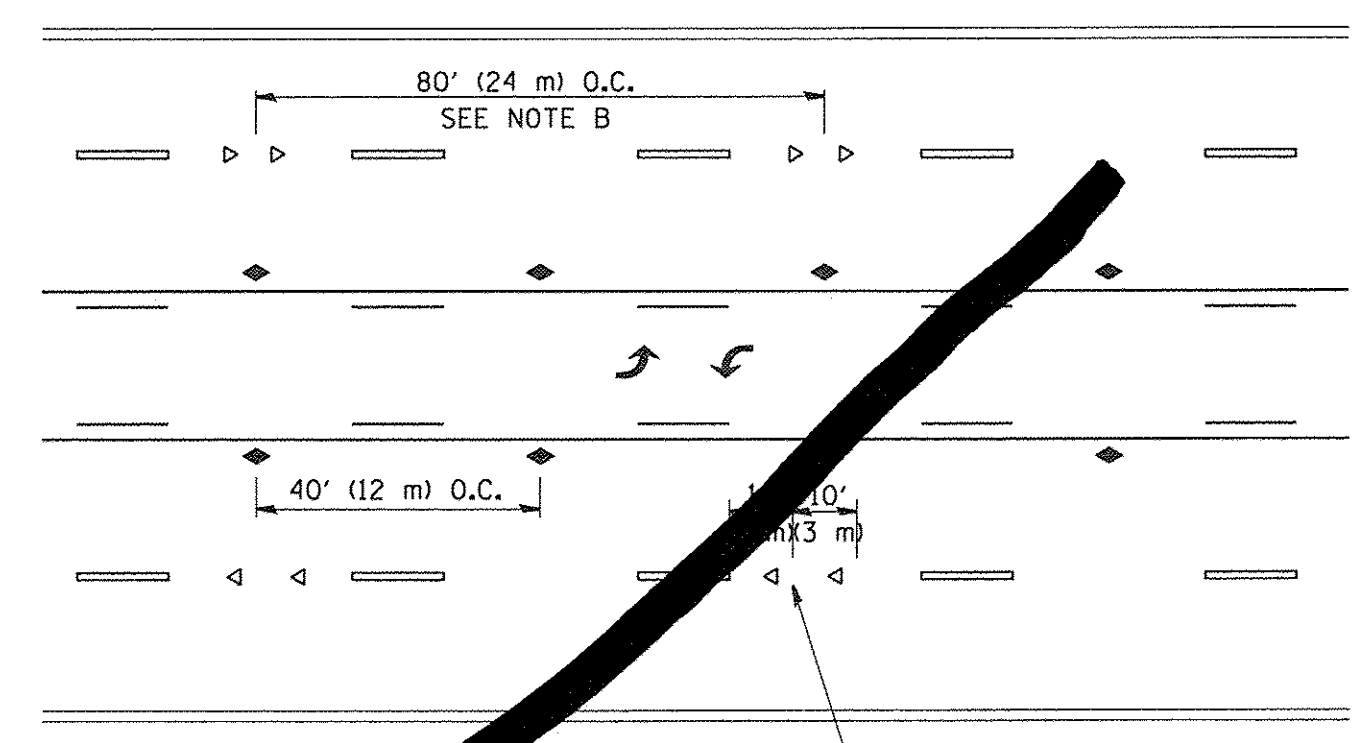


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

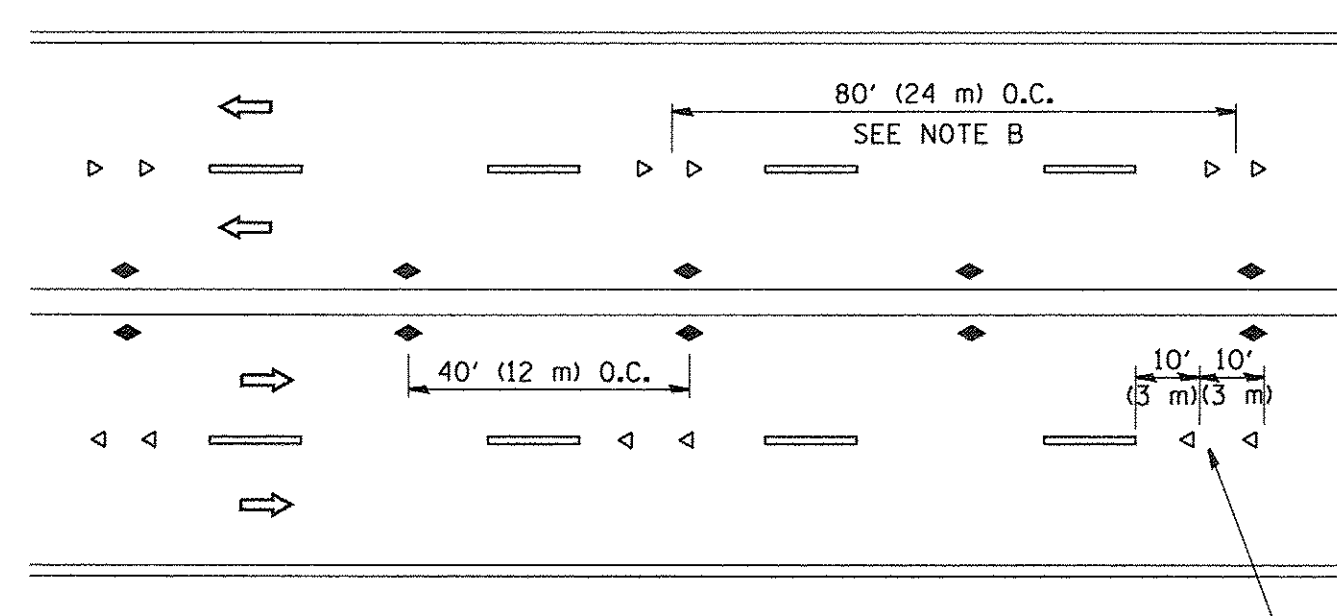
TWO-LANE/TWO-WAY



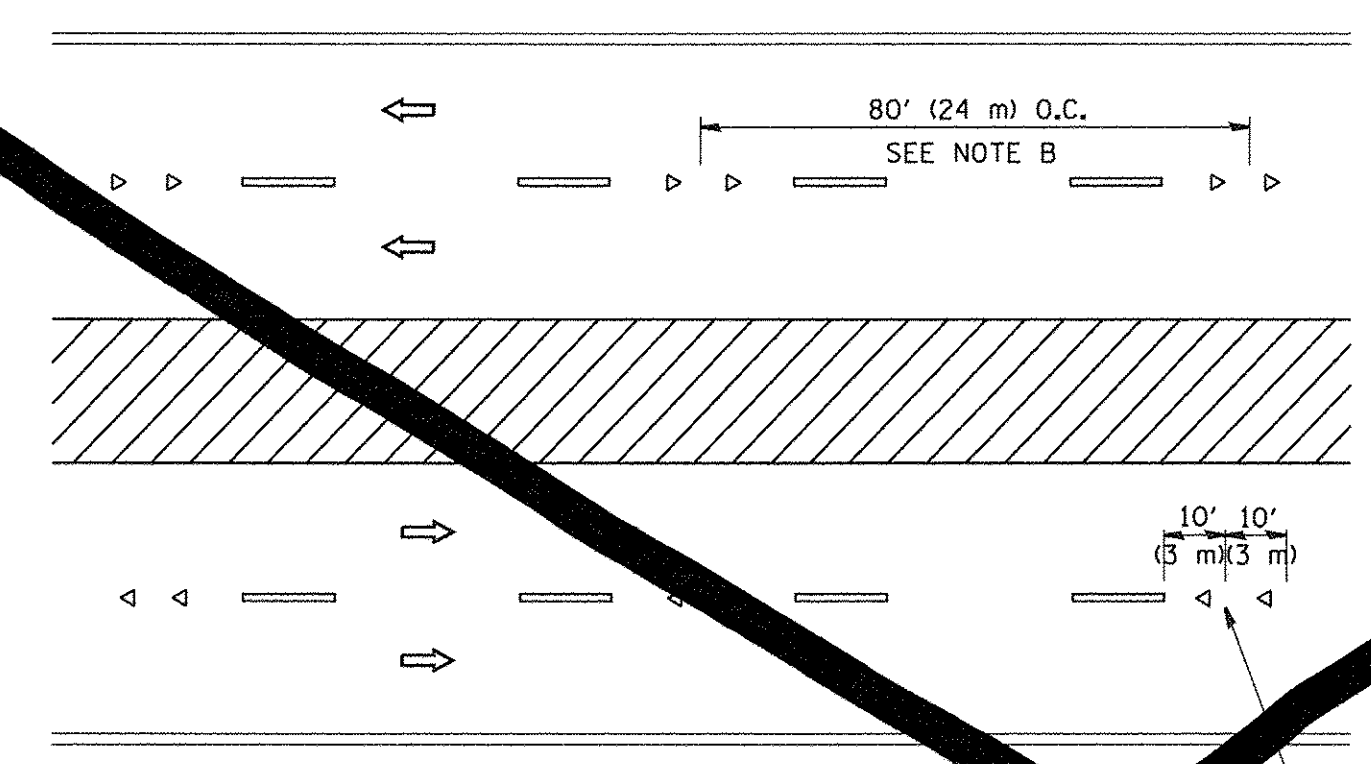
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

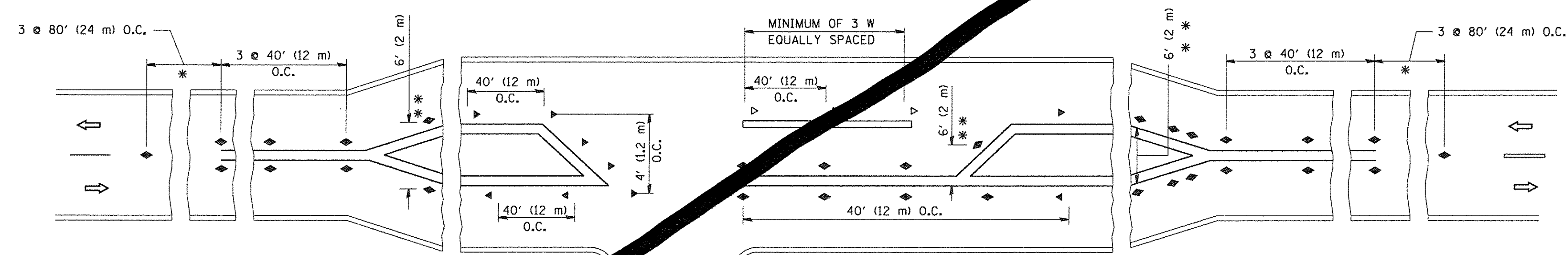
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

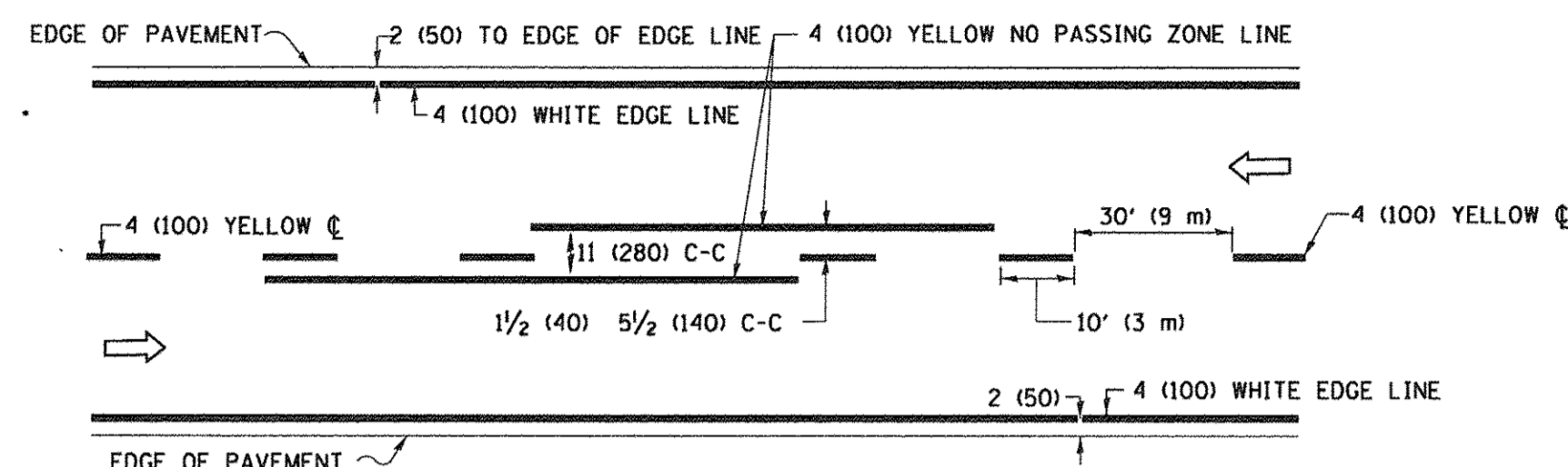


LEFT TURN

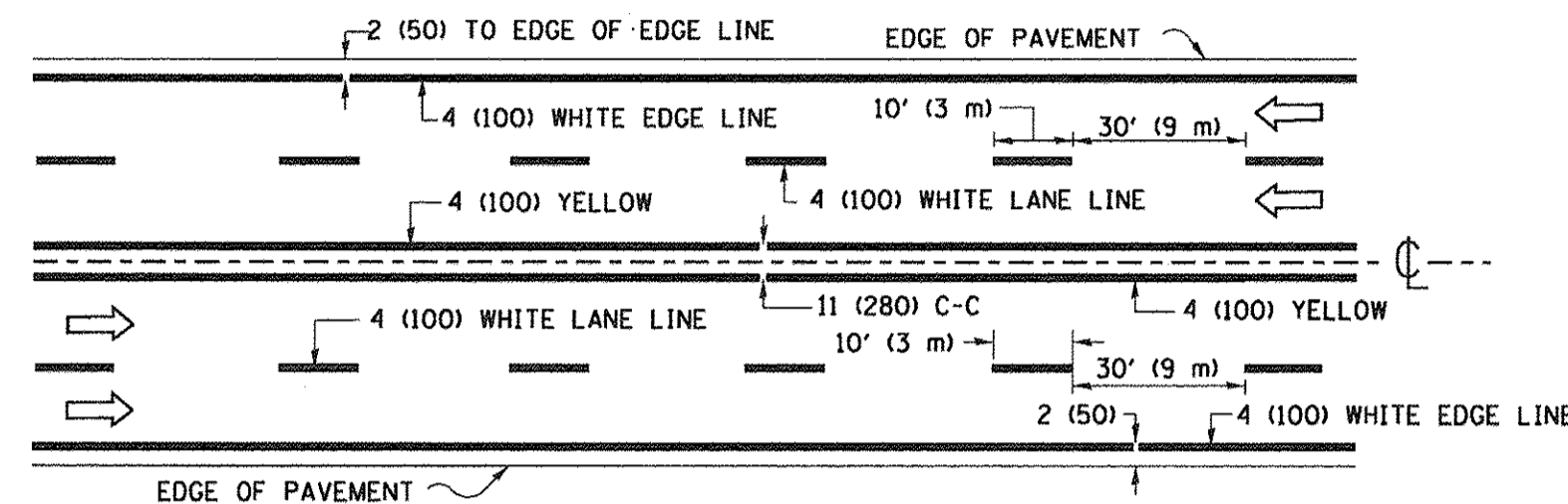
\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

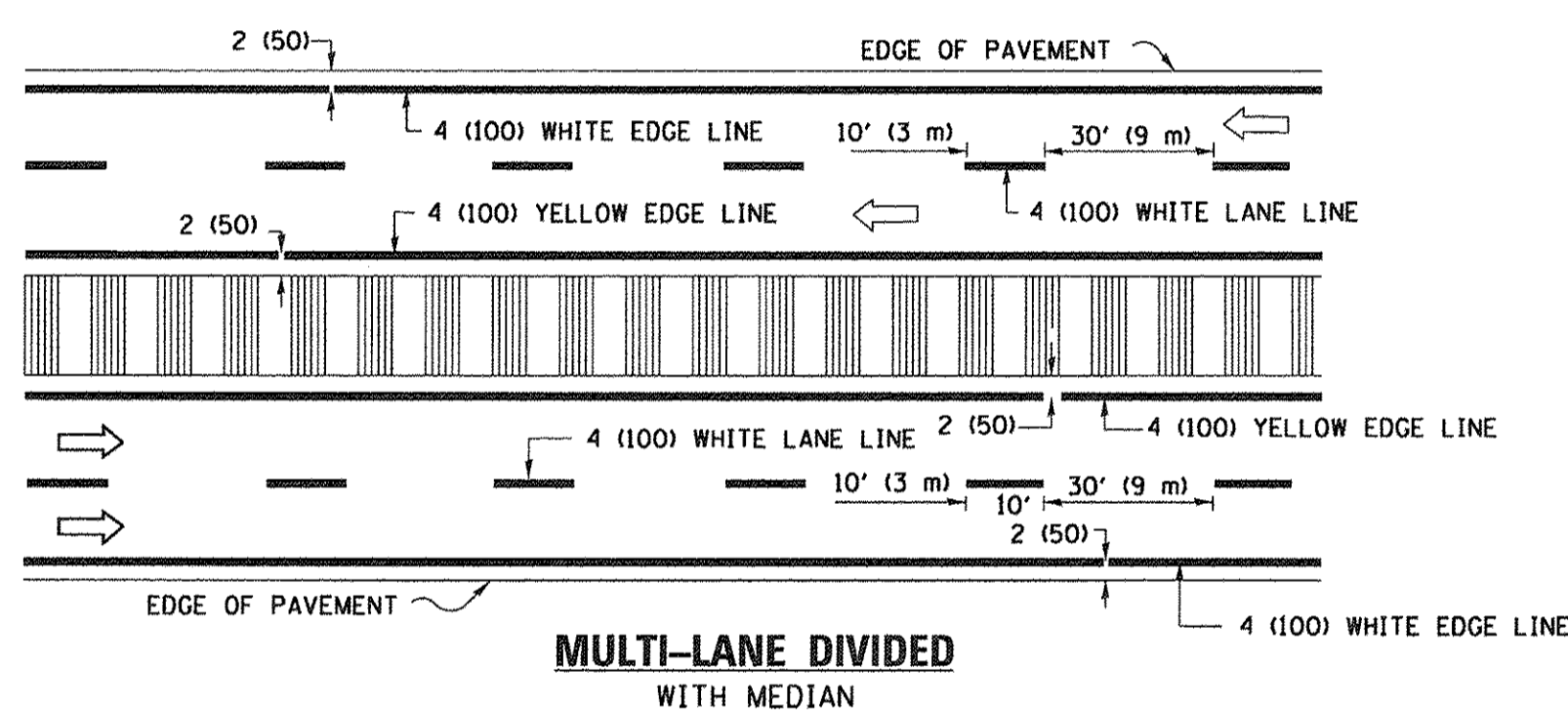
FILE NAME = c:\pwork\pwork\leiso\d0108315\c011.dgn	USER NAME = leiso	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)</b>			F.A.U. RTE. 3821	SECTION 15-00112-00-RS	COUNTY DUPAGE	TOTAL SHEETS 28	SHEET NO. 26
	PLOT SCALE = 50,000' / IN.	DRAWN -	REVISED - T. RAMMACHER 03-12-99		SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 61D50		
	PLOT DATE = 3/2/2011	CHECKED -	REVISED - T. RAMMACHER 01-06-00		FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT							
		DATE -	REVISED - C. JUCIUS 09-09-09									



**2-LANE ROADWAY**

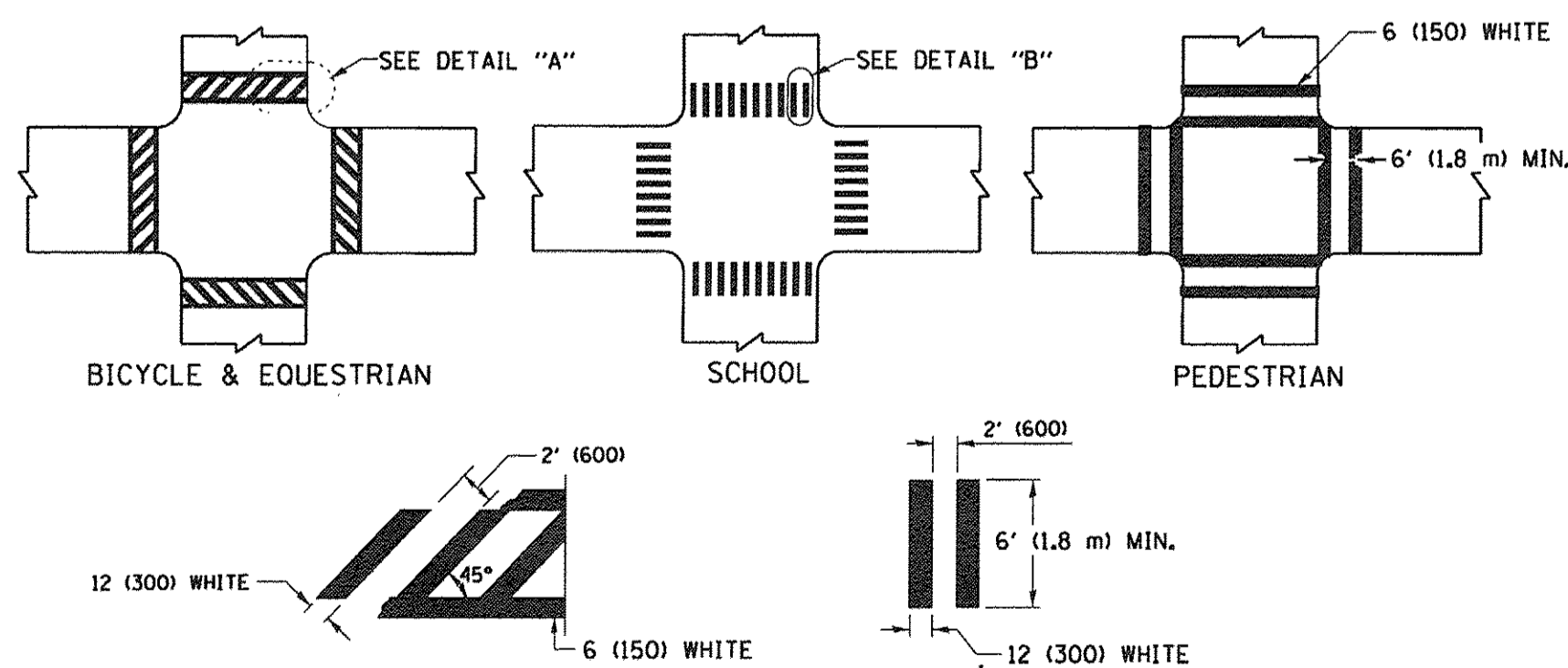


**MULTI-LANE UNDIVIDED**



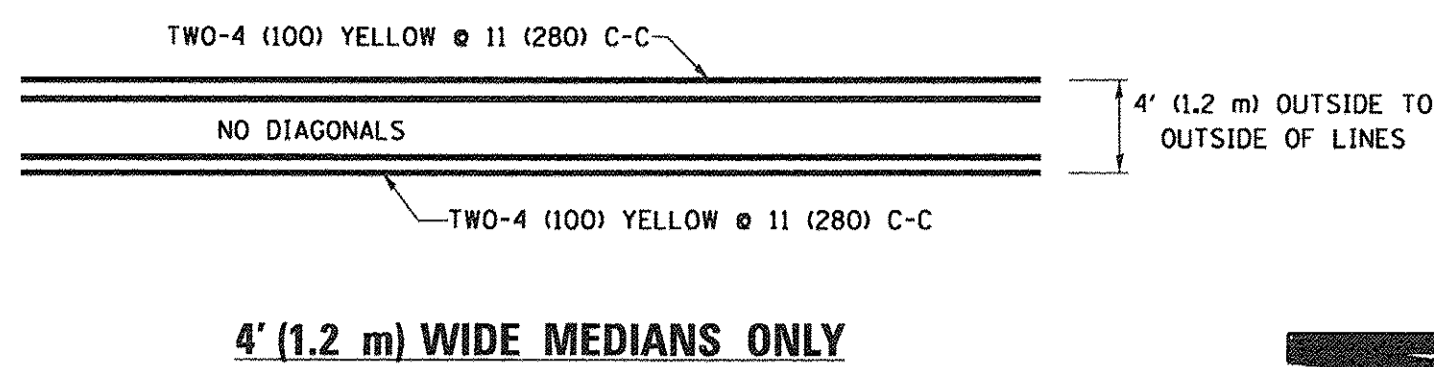
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

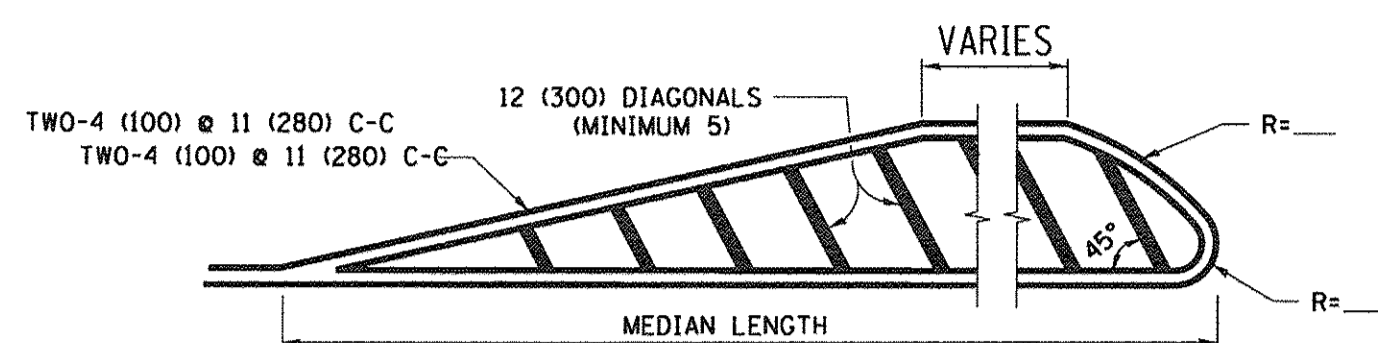


**TYPICAL CROSSWALK MARKING**

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

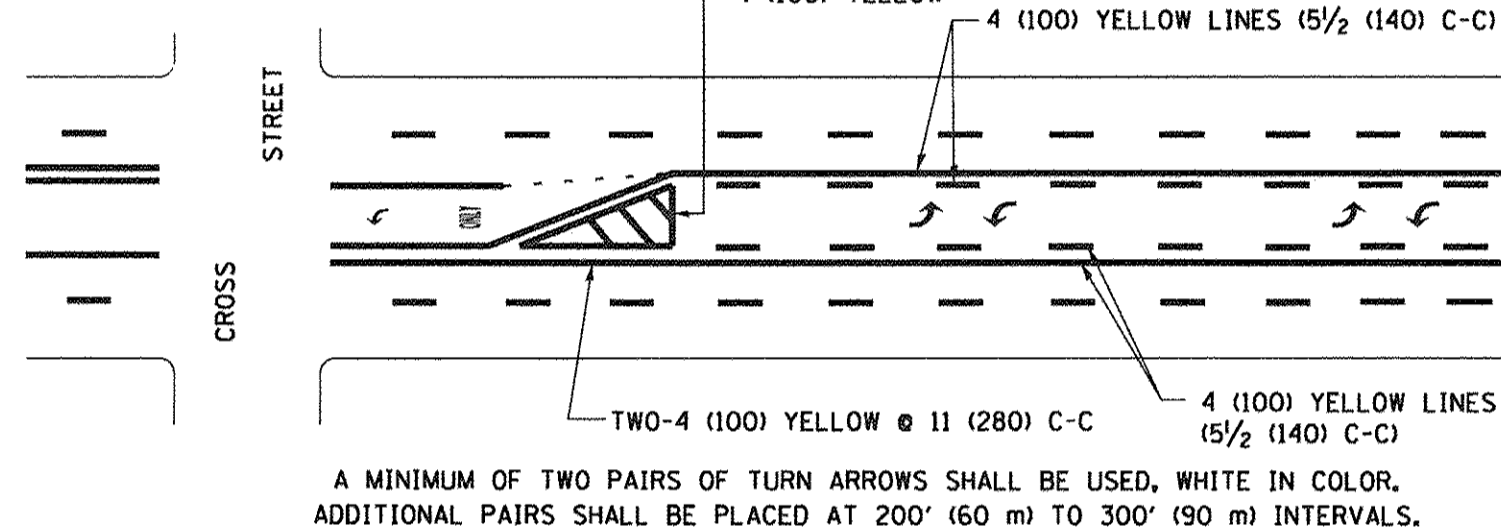


**4' (1.2 m) WIDE MEDIANS ONLY**

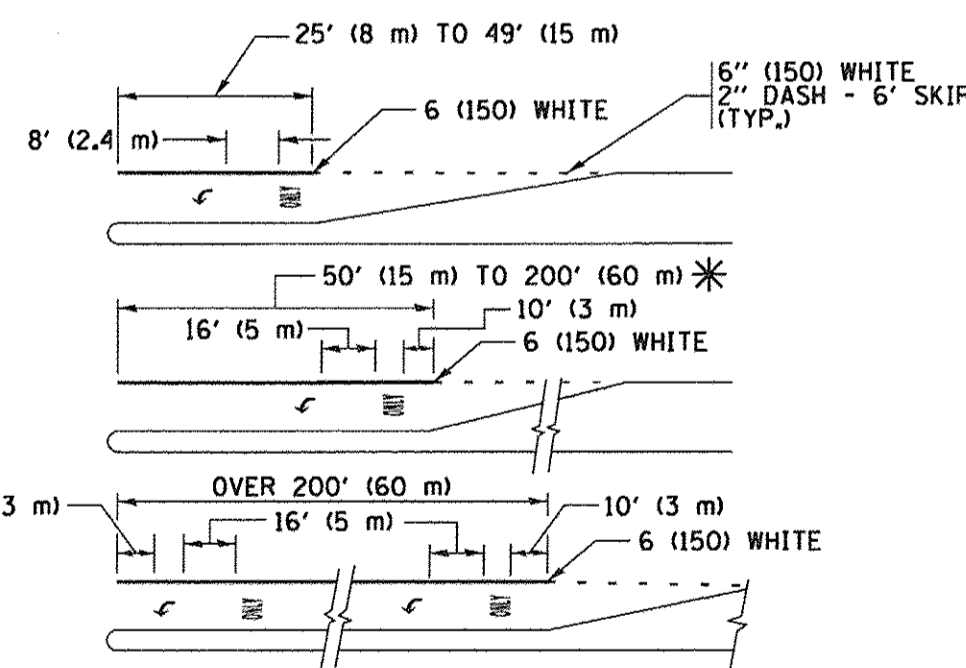


**MEDIANS OVER 4' (1.2 m) WIDE**

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))



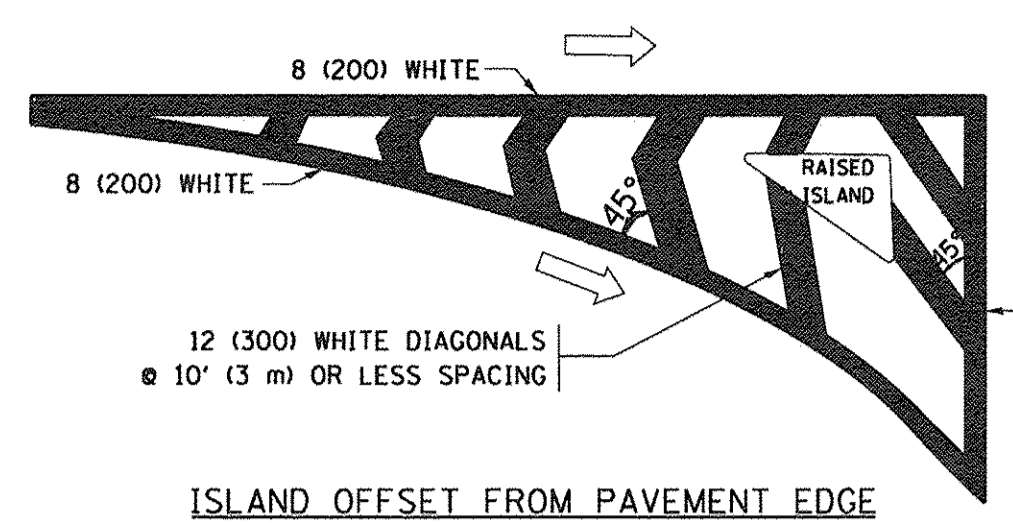
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**



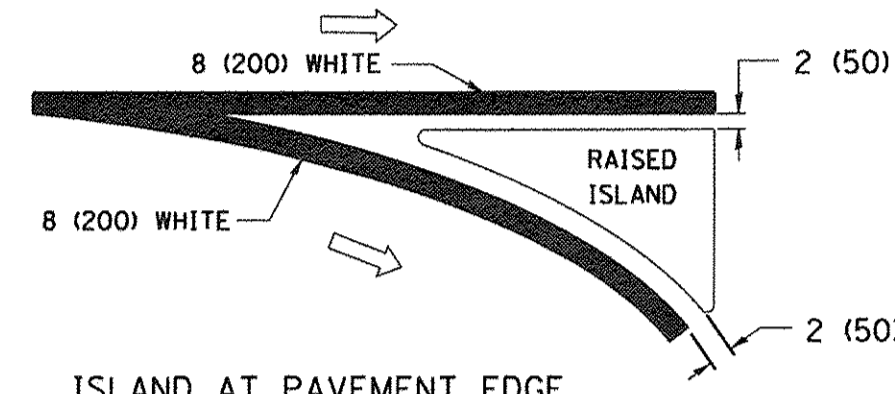
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE 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".

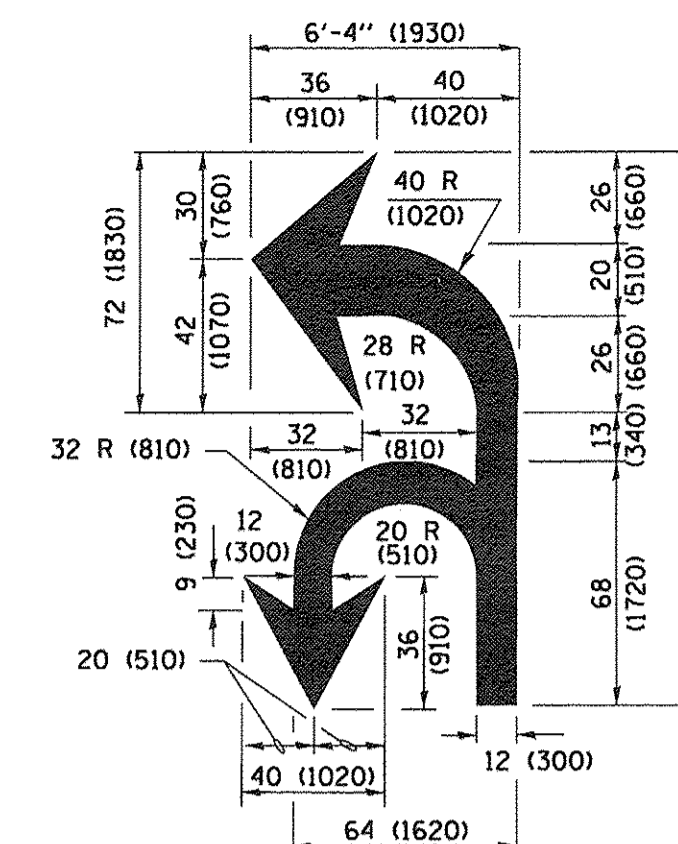


**ISLAND OFFSET FROM PAVEMENT EDGE**

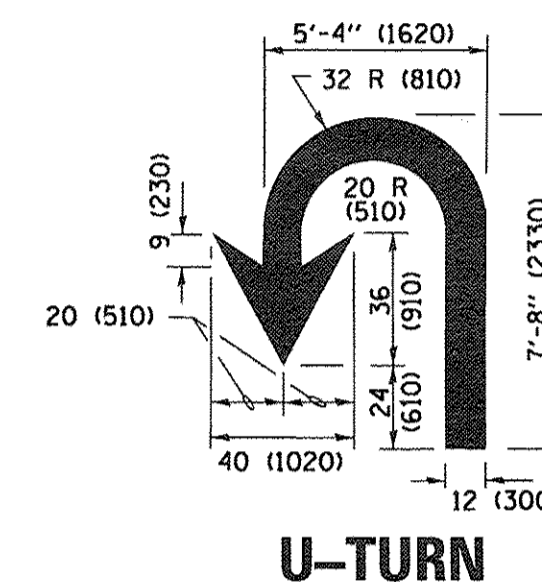


**ISLAND AT PAVEMENT EDGE**

**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 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" 15' 6" (4.8 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

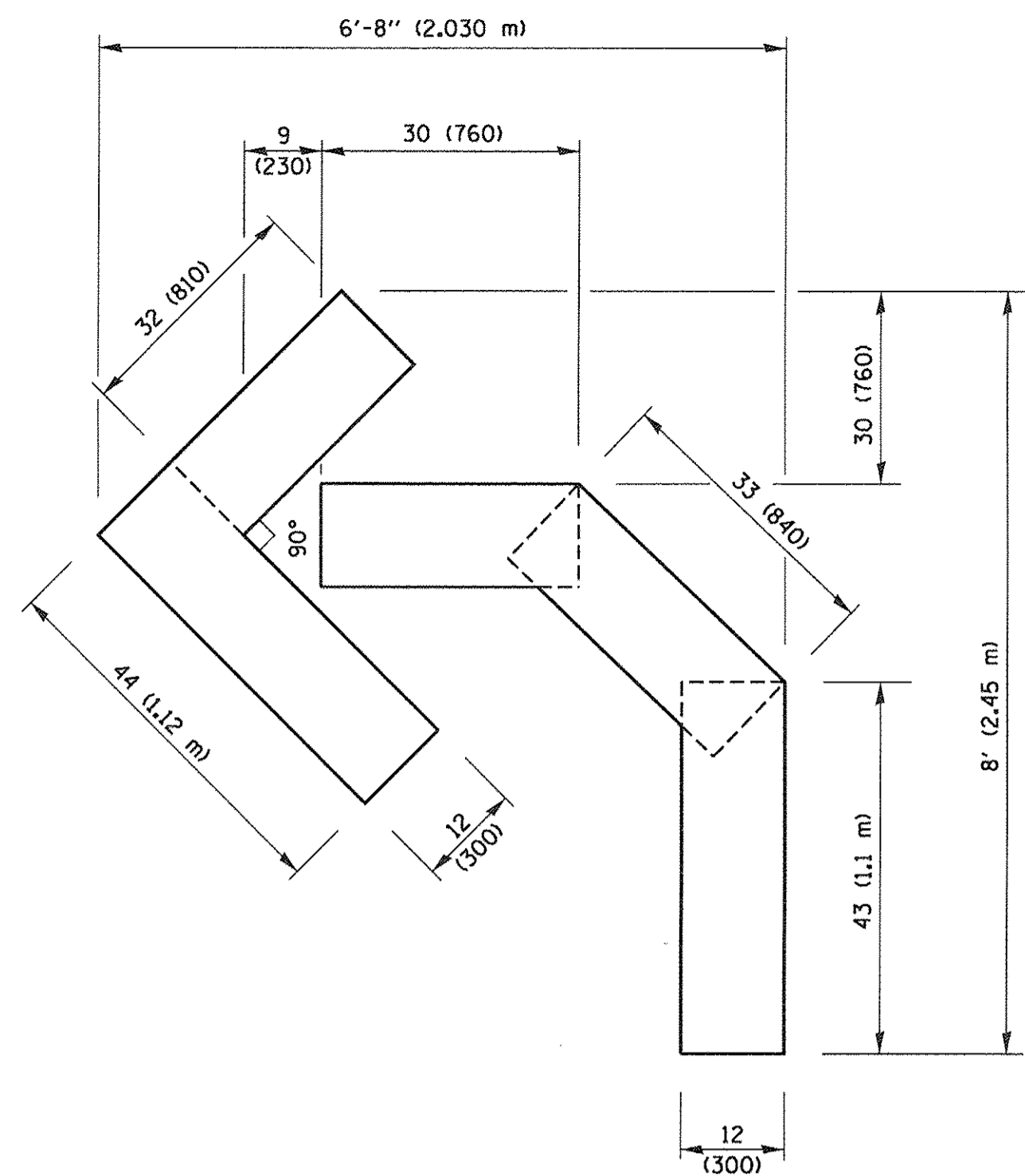
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME =	USER NAME = Footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
PROJECT =	PROJECT =	CHECKED -	REVISED - C. JUCIUS 07-01-13
PLOT SCALE = 50.000' / in.	PLOT DATE = 4/13/2016	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
			REVISED - C. JUCIUS 04-12-16

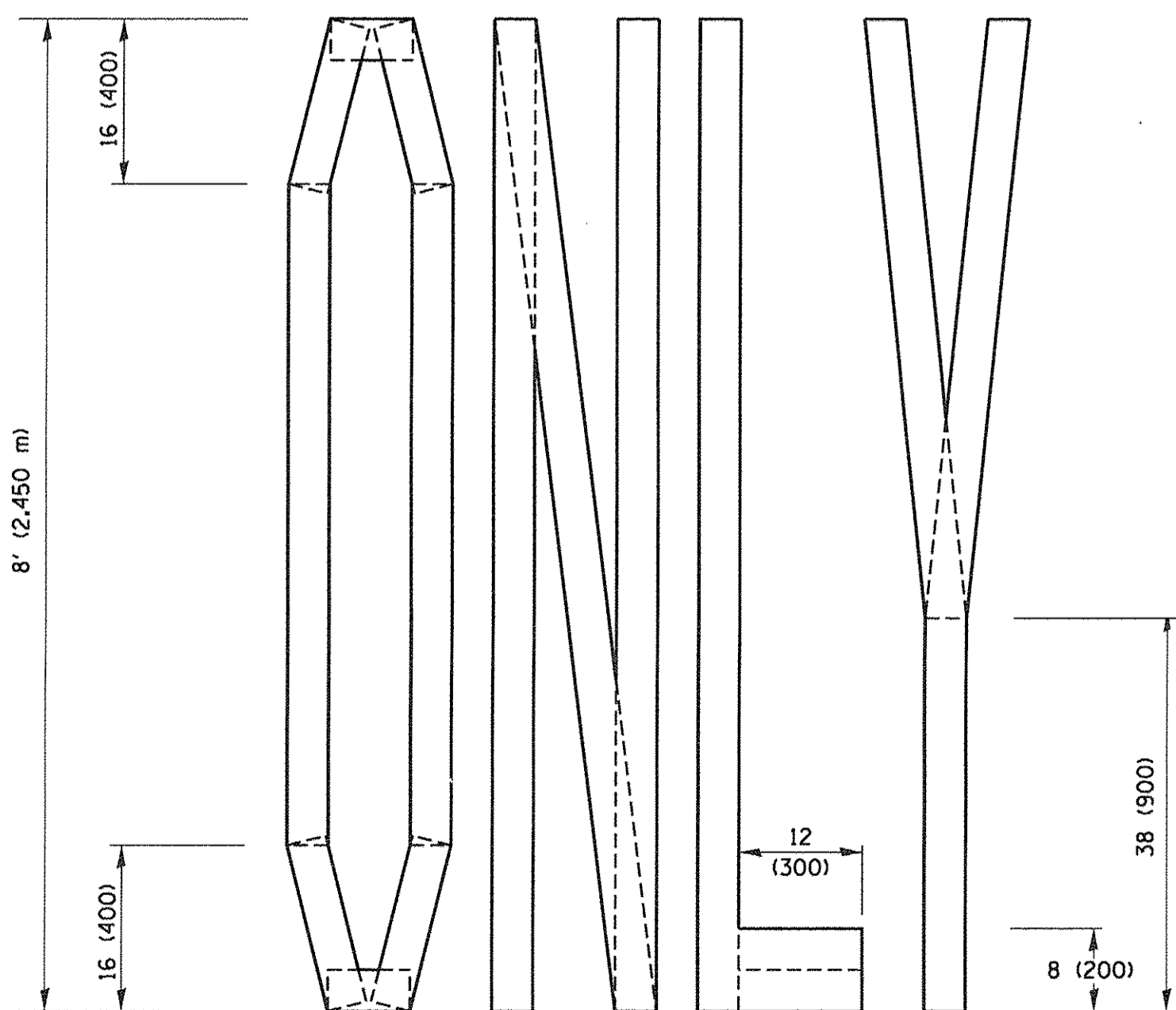
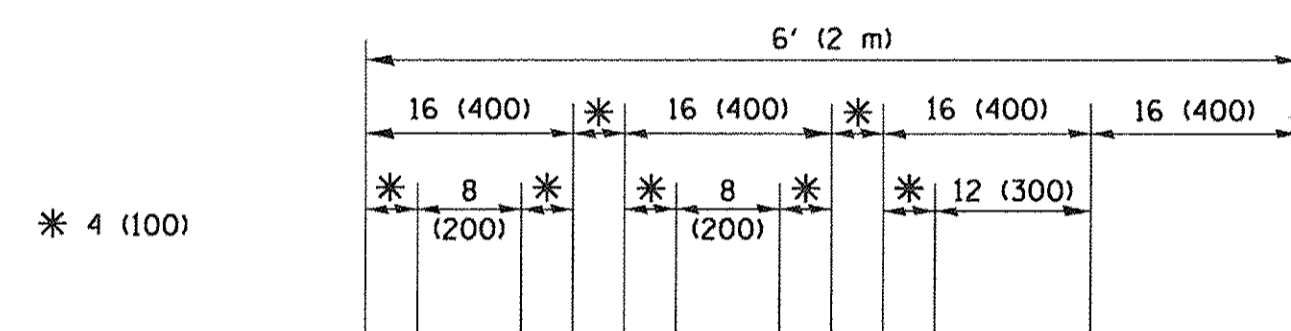
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

SCALE: NONE		SHEET 1 OF 1 SHEETS		STA. TO STA.	DISTRICT ONE TYPICAL PAVEMENT MARKINGS		F.A.U. RTE. 3821	SECTION 15-00112-00-RS	COUNTY DUPAGE	TOTAL SHEETS 28	SHEET NO. 27
							TC-13		CONTRACT NO. 61D50		
ILLINOIS FED. AID PROJECT											



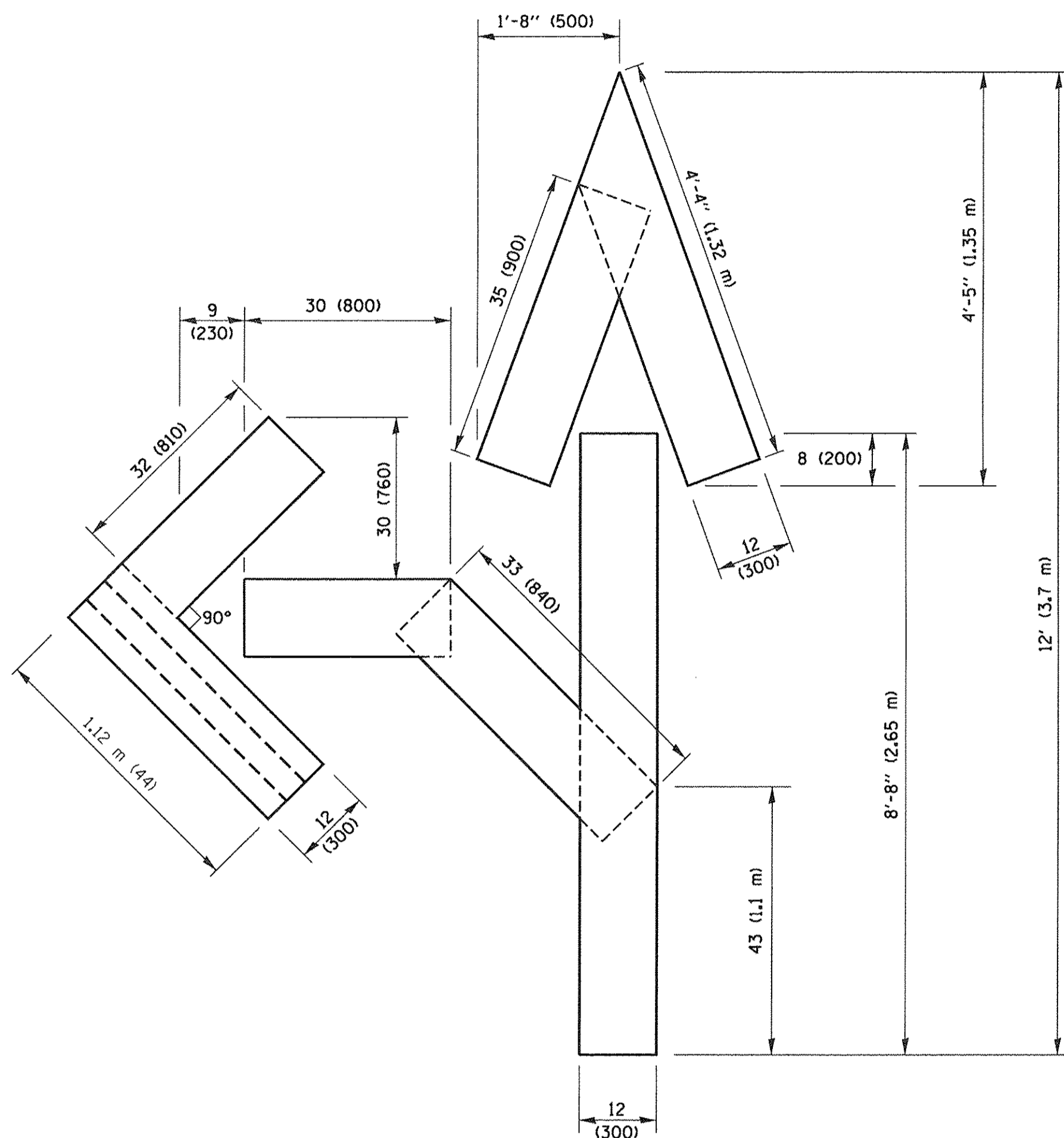
**QUANTITY**

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)

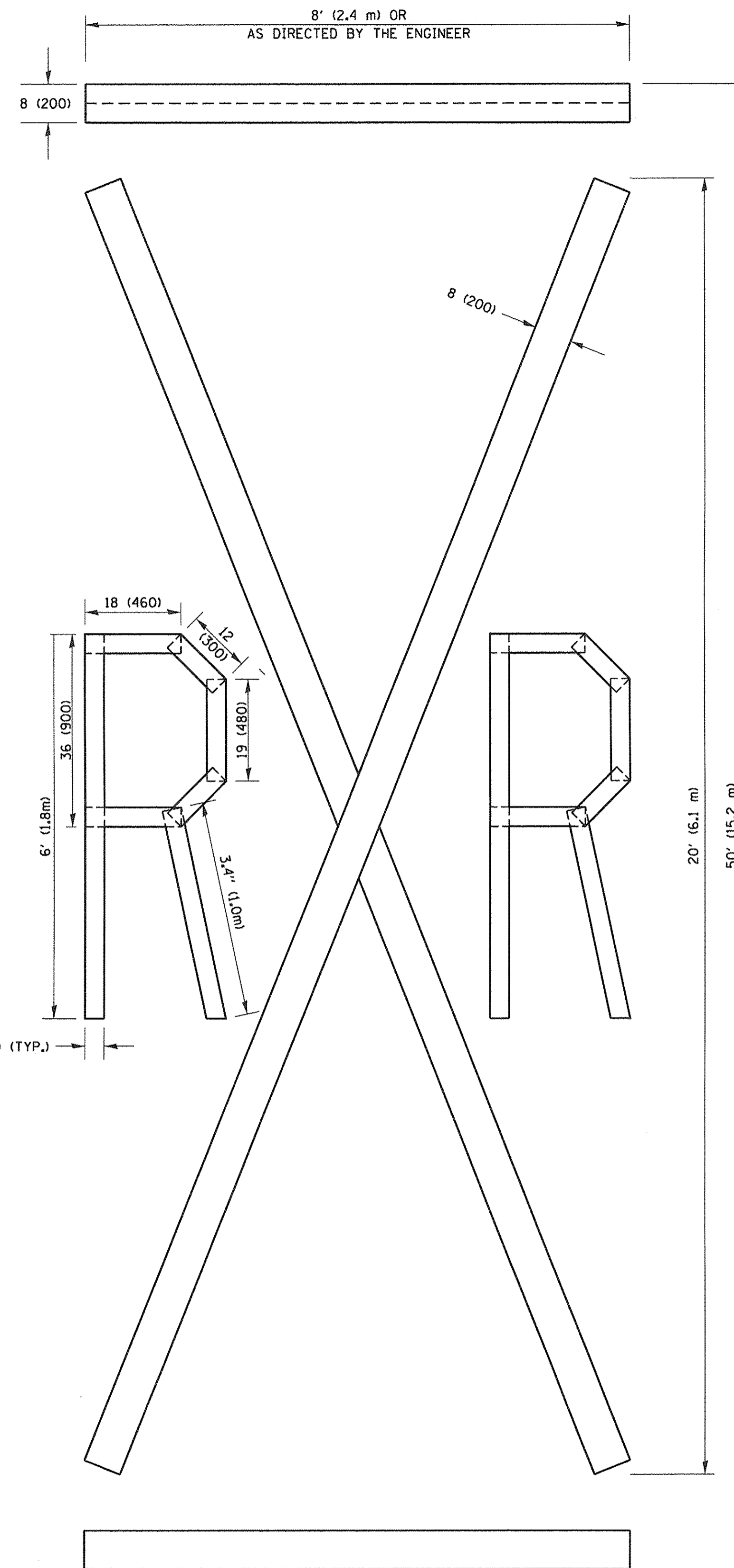


**QUANTITY**

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.

FILE NAME =	USER NAME = Footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
pw:\IL\084EBID\INTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\CAD\CADData\CADsheets\tcl6.dgn		CHECKED -	REVISED - E. GOMEZ 08-28-00
		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**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3821	15-00112-00-RS	DUPAGE	28	28
TC-16			CONTRACT NO. 61D50	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				