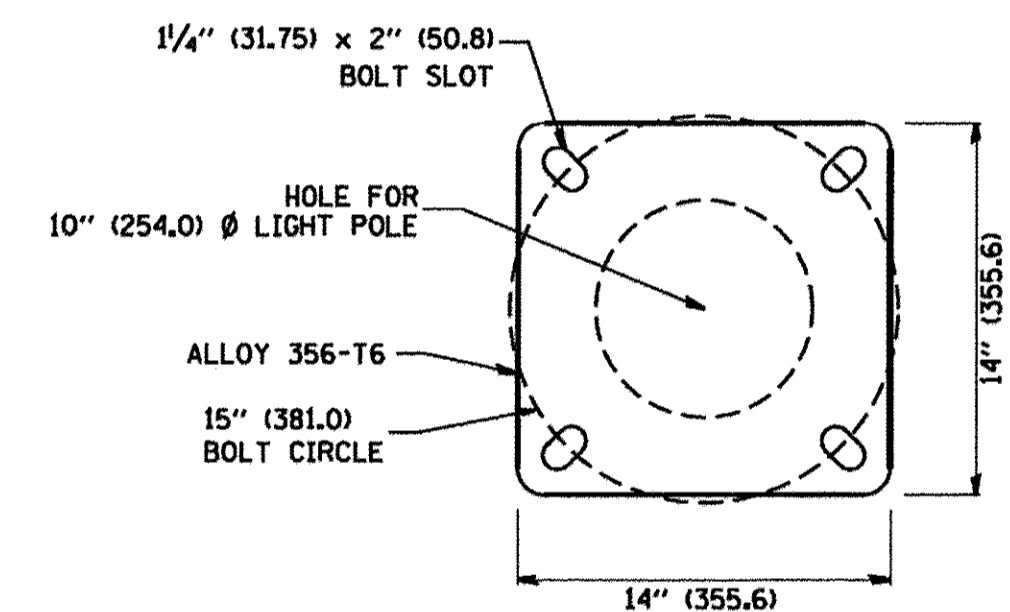
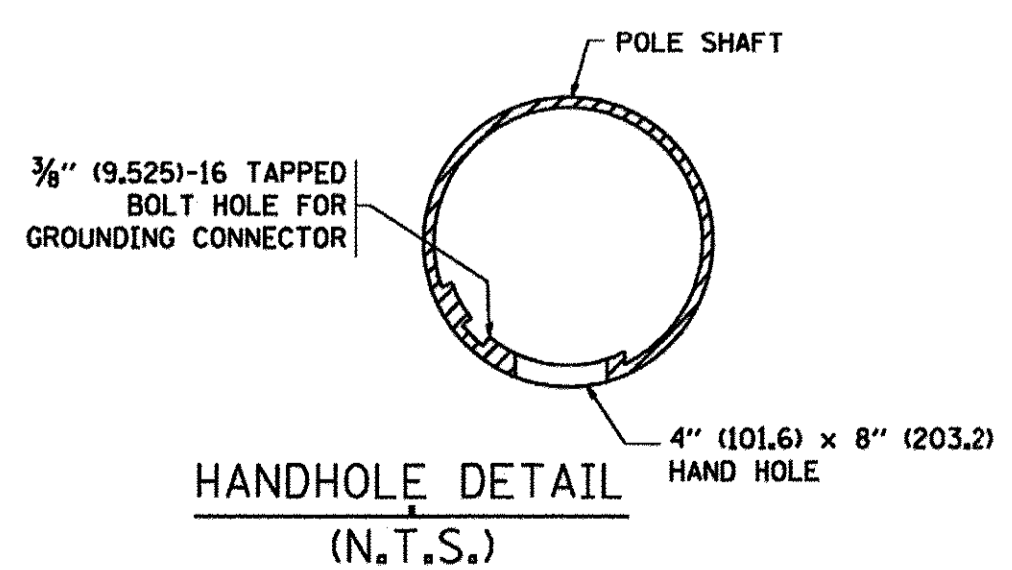


- NOTES:**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
 5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



LIGHT POLE BASE PLATE DETAIL
15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL
(N.T.S.)

FILE NAME = P:\604441\15\9802_Mork\918_CADD\20-SHEET\TS-CH12-9128-L1-38-01-Details.dgn



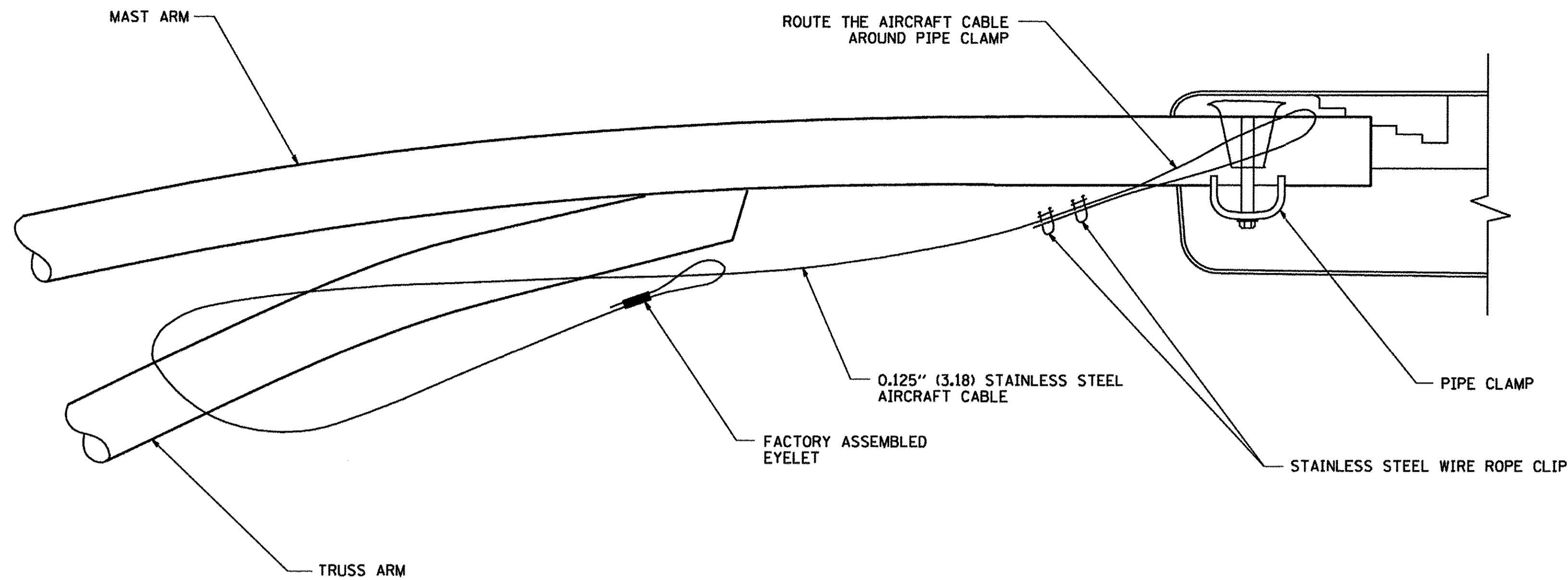
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PLOT DATE = 1/17/2017	CHECKED -	REVISED - R. TOMSONS 01-18-13
	DATE = 7/28/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

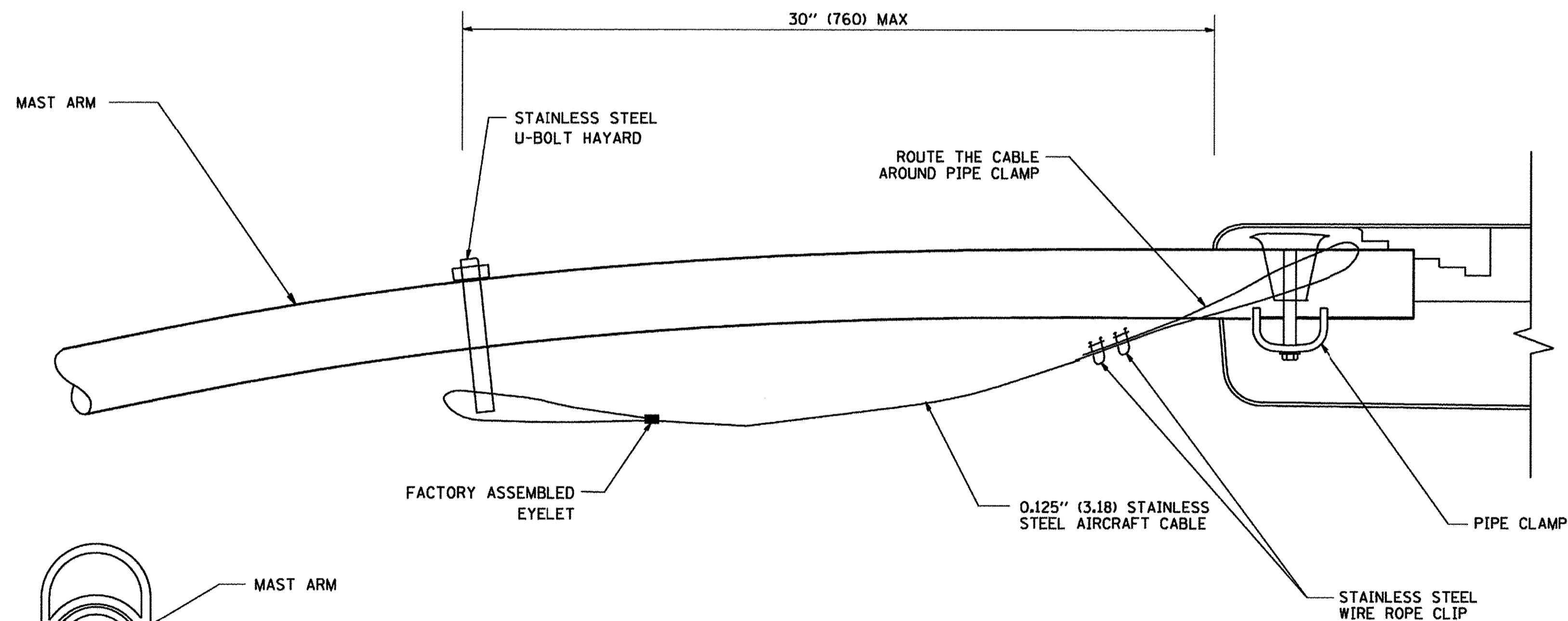
**ALUMINUM LIGHT POLE
40'-0" (14.78M) MOUNTING HEIGHT**

SCALE: NTS SHEET 4 OF 8 SHEETS STA. TO STA.

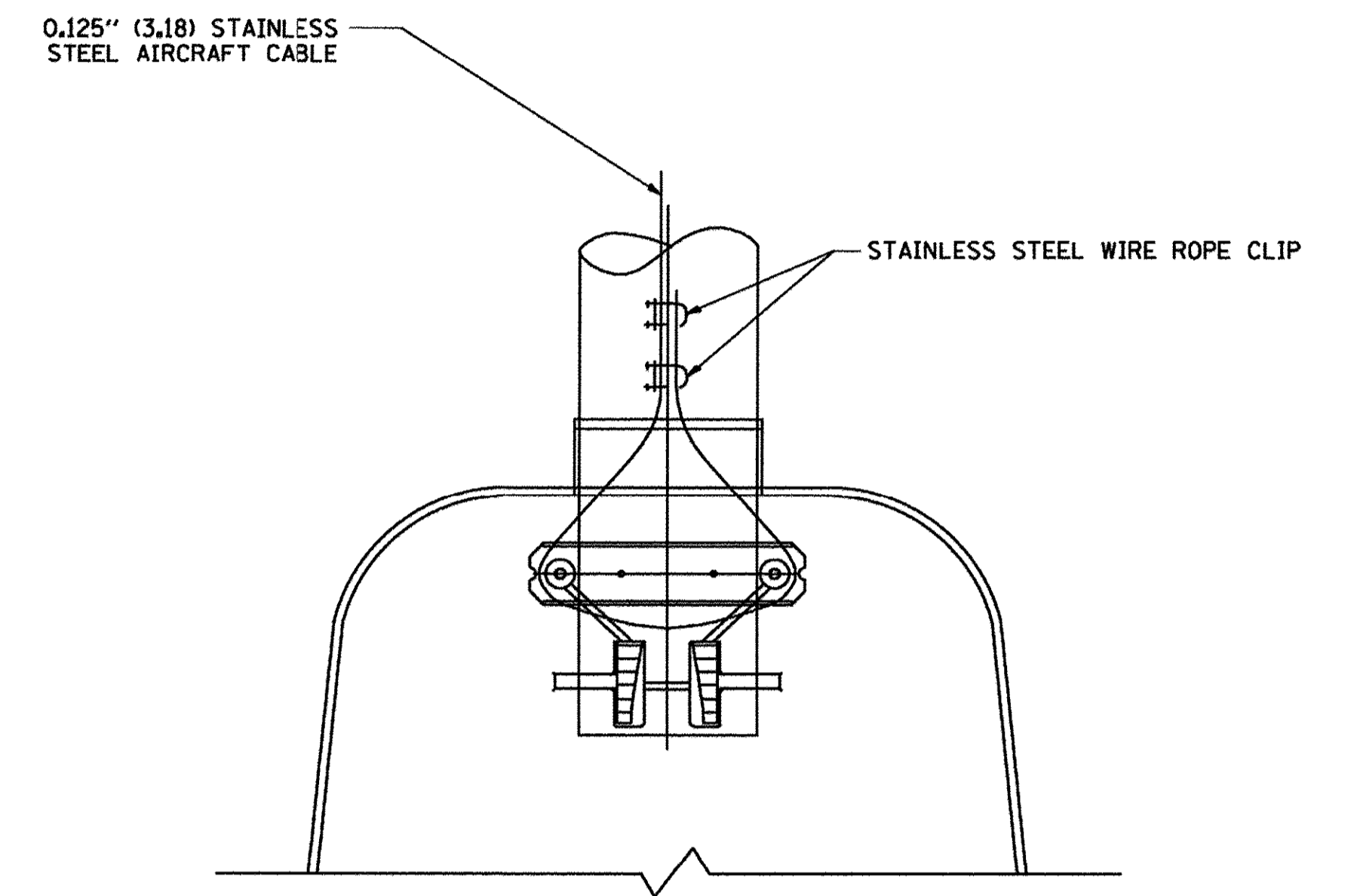
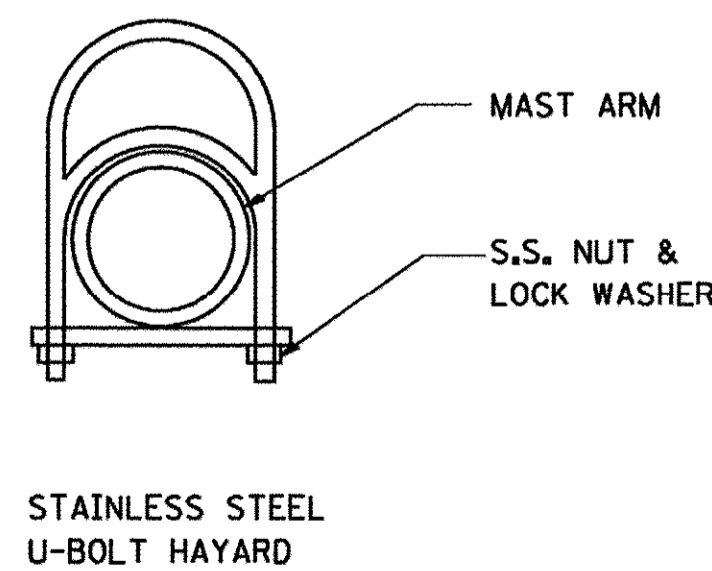
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BD0156-07 (BD-01)		CONTRACT NO. 61C76		
[ILLINOIS] FED. AID PROJECT				



SIDE VIEW (TRUSS ARM)
N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.



BOTTOM VIEW
N.T.S.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

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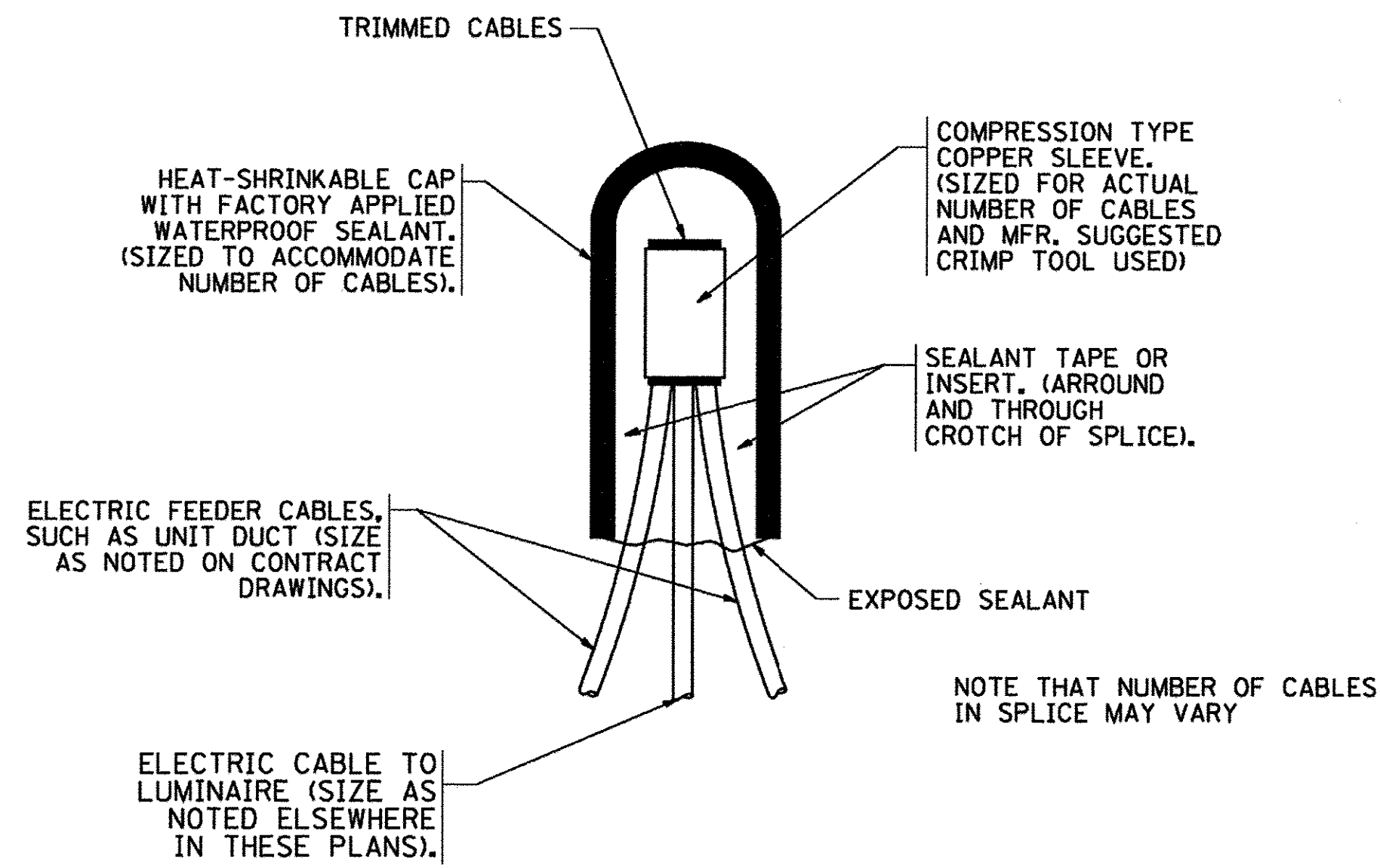
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PLOT DATE = 1/17/2017	CHECKED -	REVISED -
	DATE = 7/28/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LUMINAIRE SAFETY CABLE ASSEMBLY

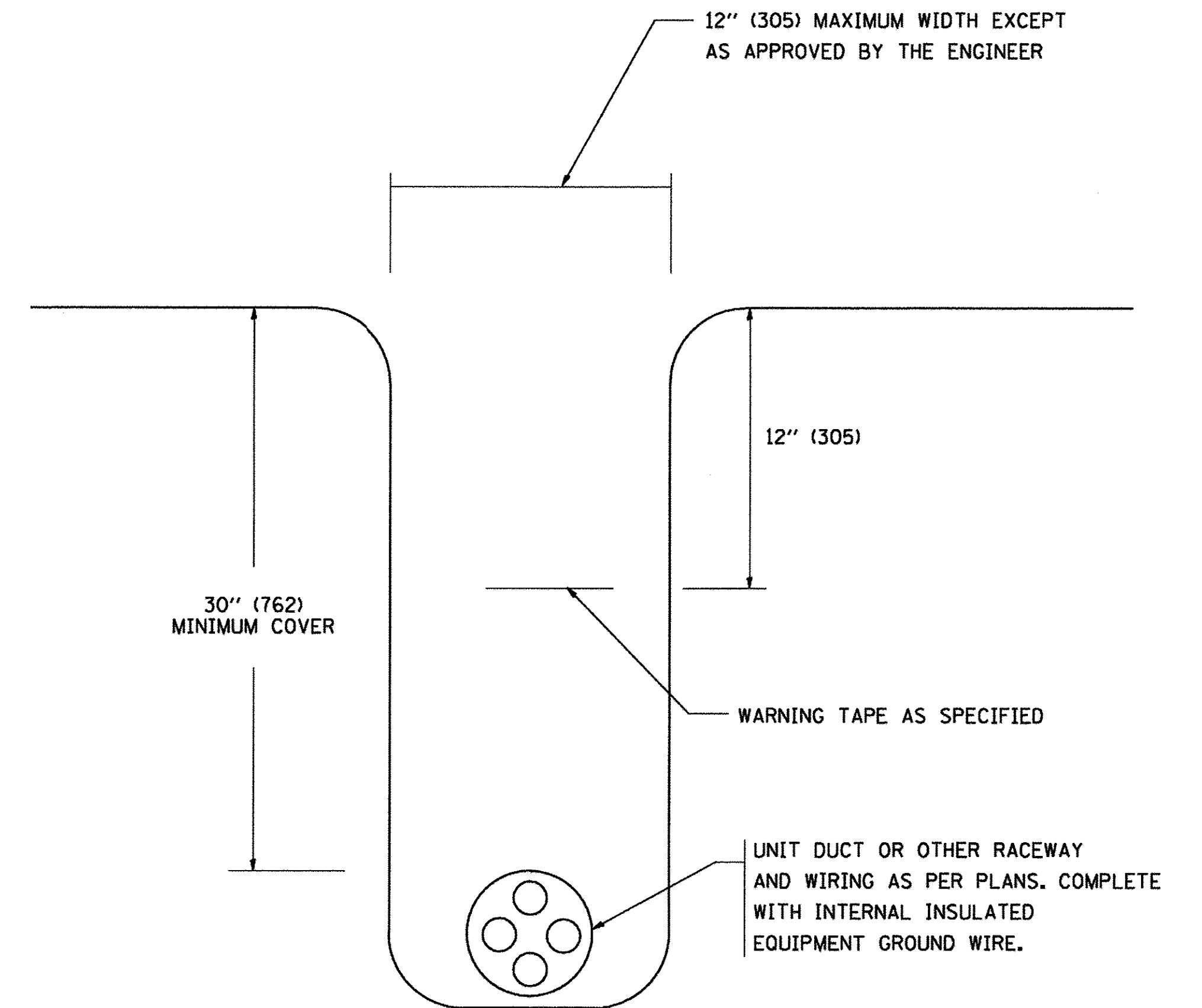
SCALE: NTS SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BDO156-07 (BD-01)		CONTRACT NO. 61C76		
ILLINOIS FED. AID PROJECT				



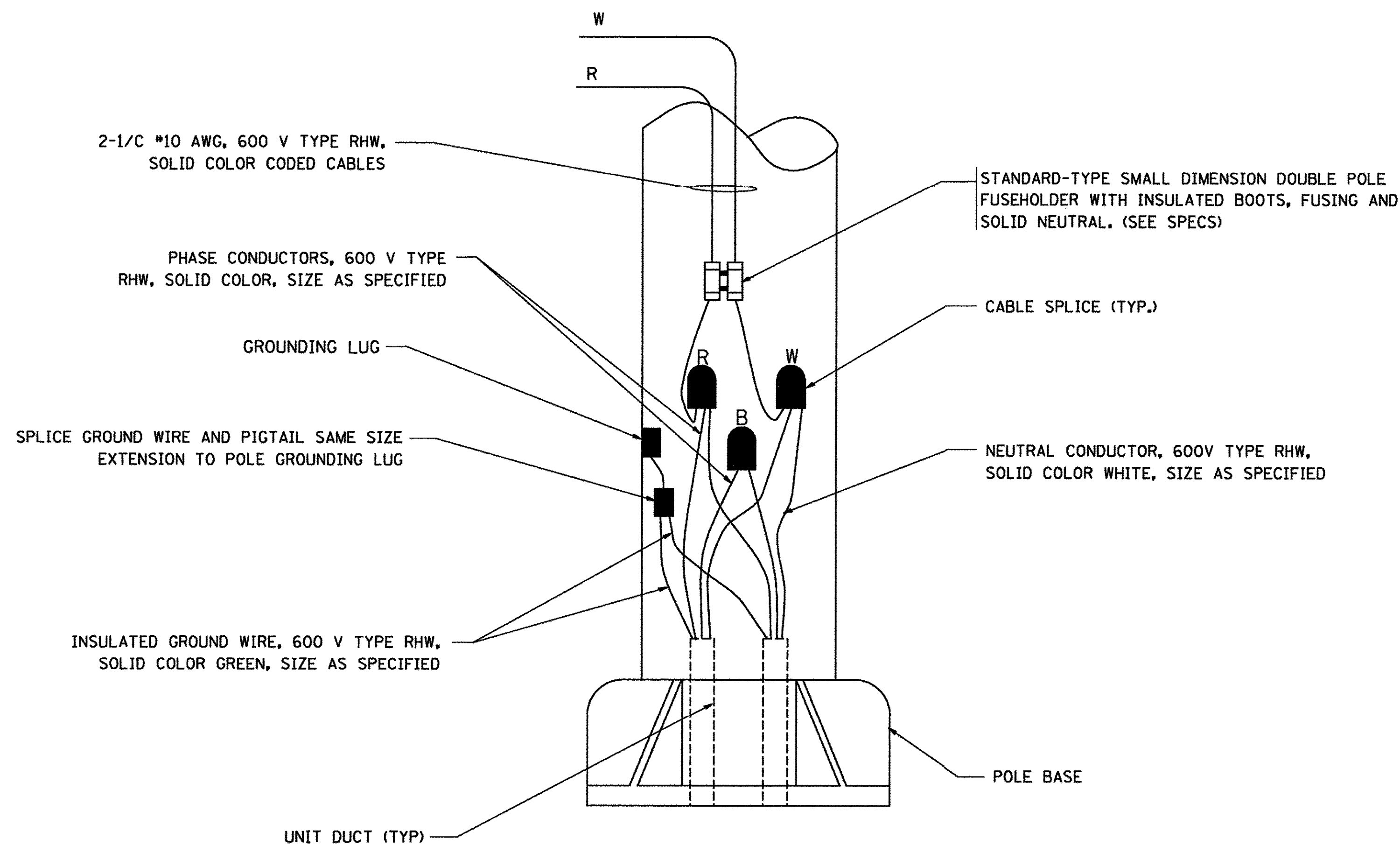
TYPICAL SPLICE DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.

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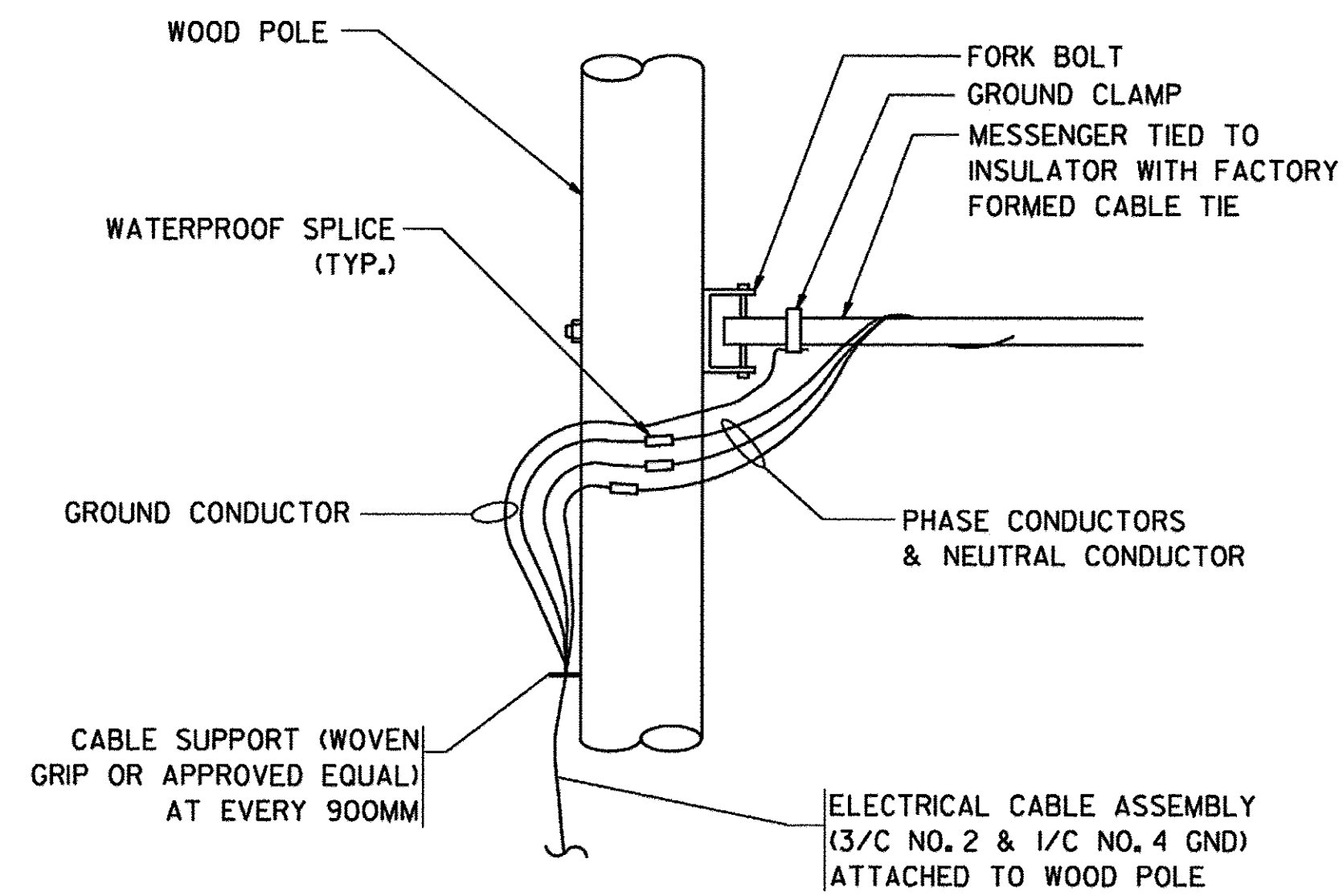
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	DATE - 7/28/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

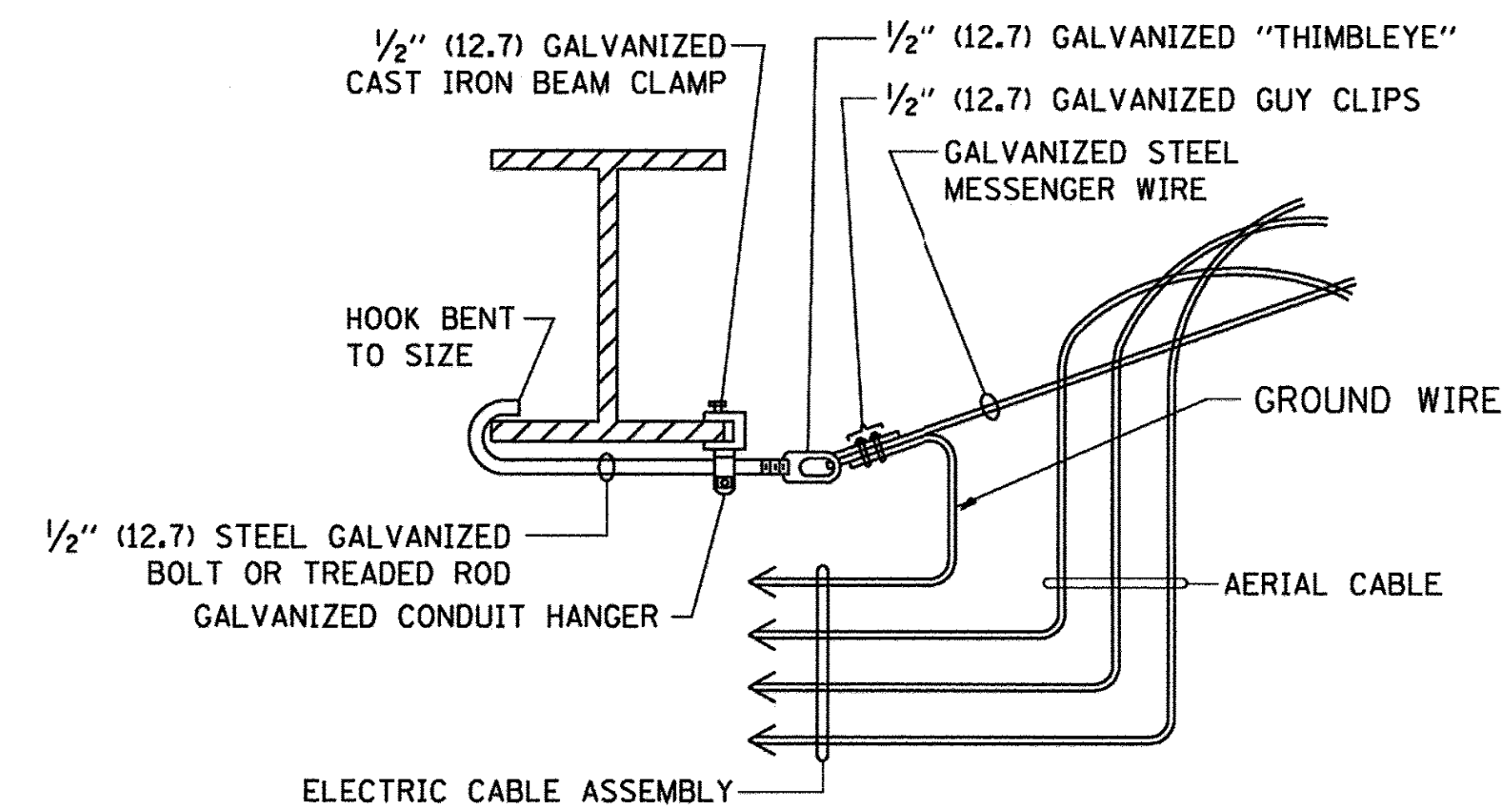
MISC. ELECTRICAL DETAILS
SHEET A

SCALE: NTS SHEET 6 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-CH	COOK	140	103
BD0156-07 (BD-01)		CONTRACT NO. 61C76		
[ILLINOIS] FED. AID PROJECT				



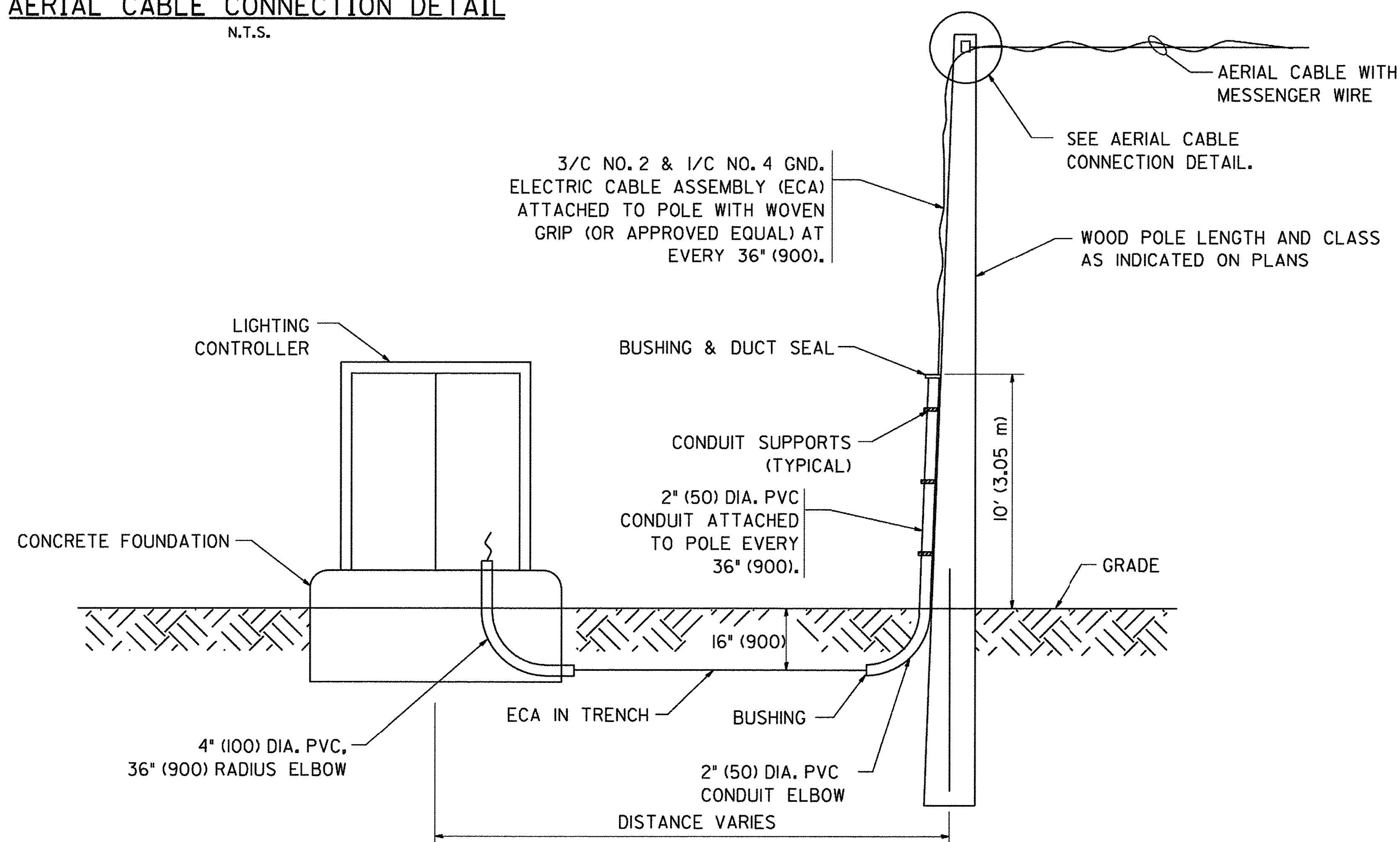
AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL
N.T.S.

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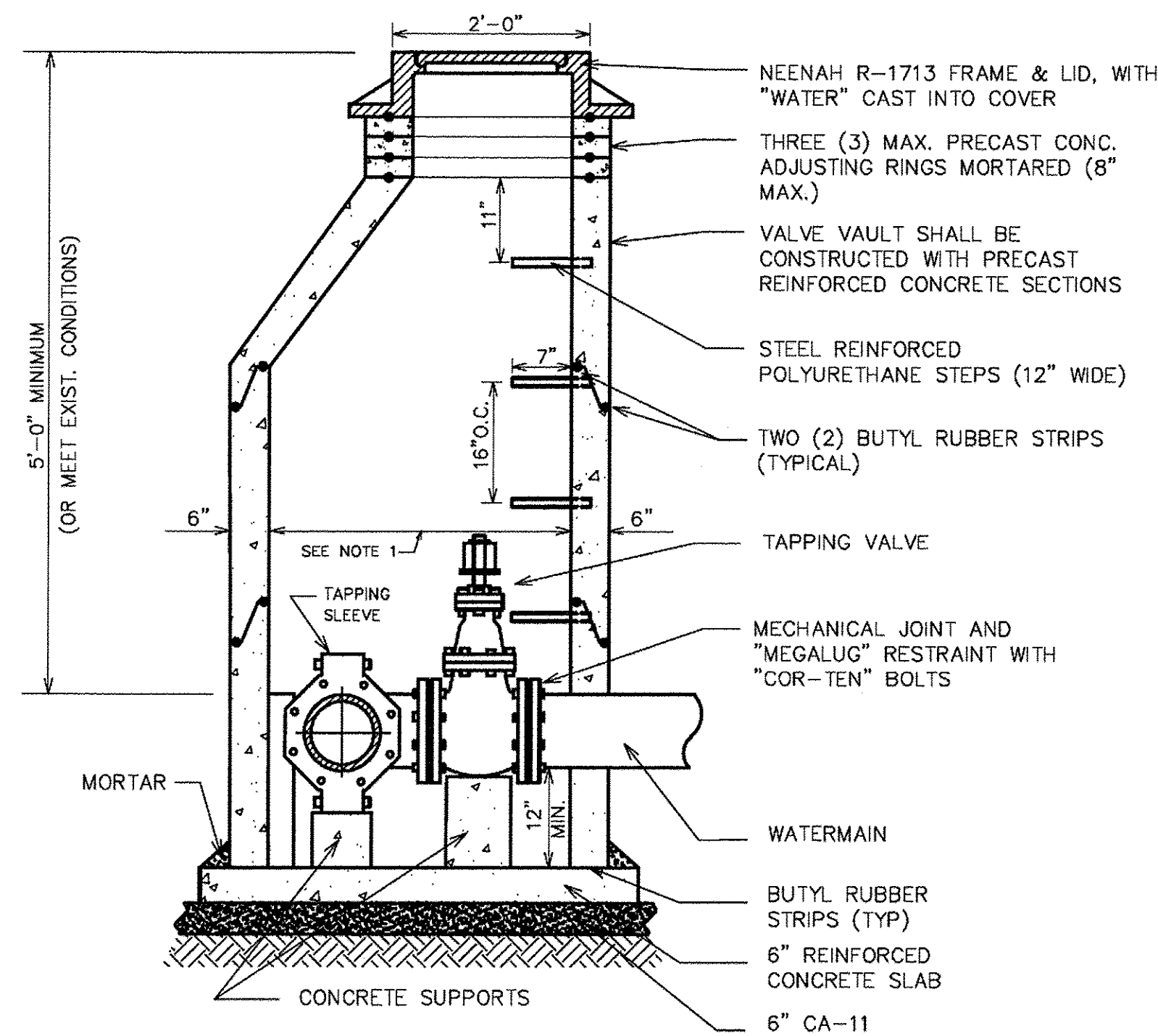
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	DATE - 7/28/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY AERIAL CABLE INSTALLATION

SCALE: NTS SHEET 8 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD0156-07 (BD-01)		CONTRACT NO. 61C76		
ILLINOIS FED. AID PROJECT				



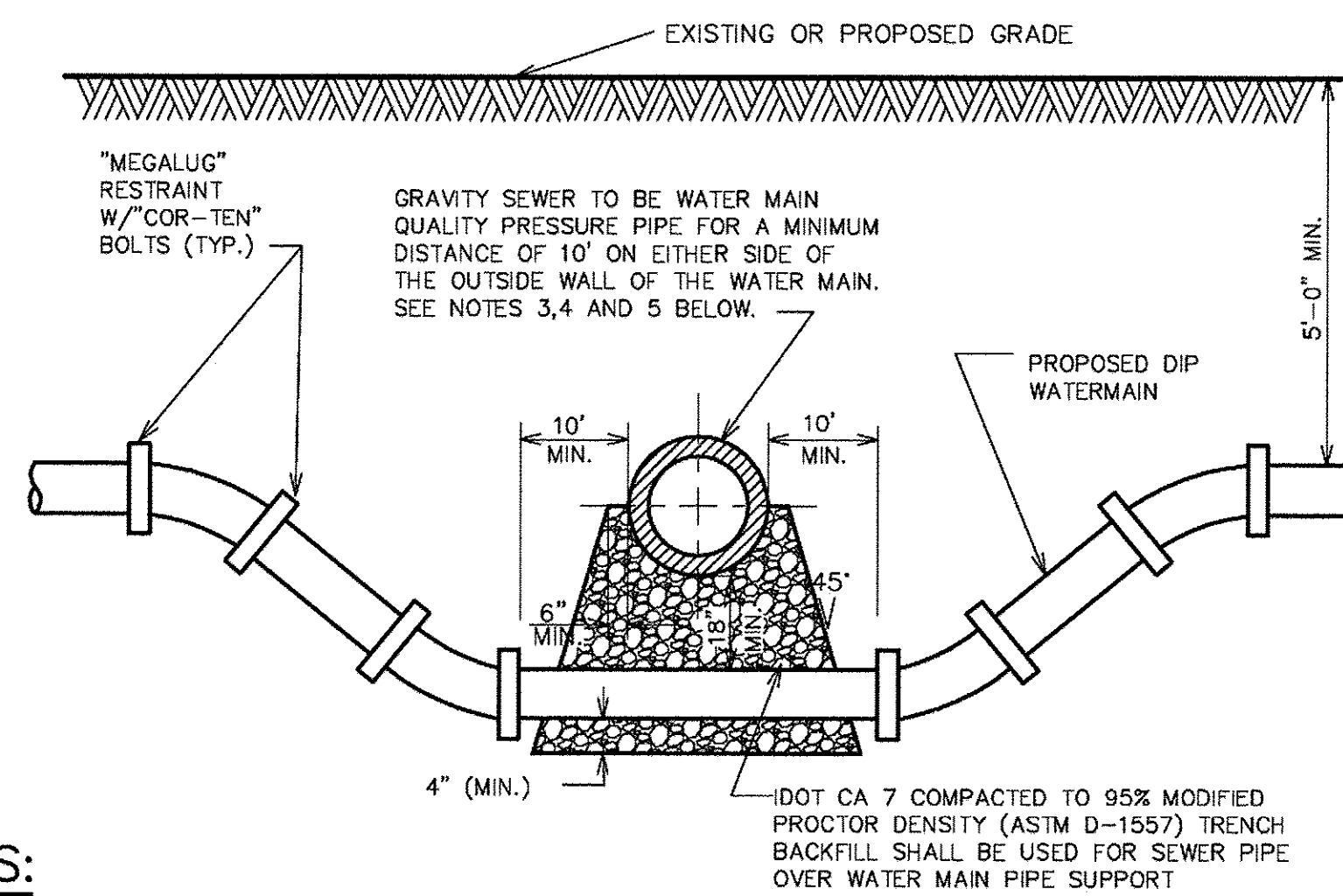
NOTES:

1. 60" (MIN) INSIDE DIA. FOR ALL PRESSURE CONNECTION VAULTS.
2. BACKFILL MATERIAL SHALL BE IDOT CA 7 STONE.
3. BOLTS FOR FITTINGS
 - a. MECHANICAL JOINT BOLTS & NUTS SHALL BE COMPOSED OF "COR-TEN".
 - b. ALL OTHER HEXAGONAL BOLTS & NUTS SHALL BE COMPOSED OF STAINLESS STEEL.
4. VALVE VAULT MUST CONFORM TO ASTM C-478.
5. ALL SECTIONS TO BE TONGUE AND GROOVED.
6. NON-PRECAST OPENINGS SHALL BE CORED AND RUBBER BOOTED.*

* SEE PIPE CONNECTIONS TO STRUCTURE DETAIL U-4.

NOT TO SCALE

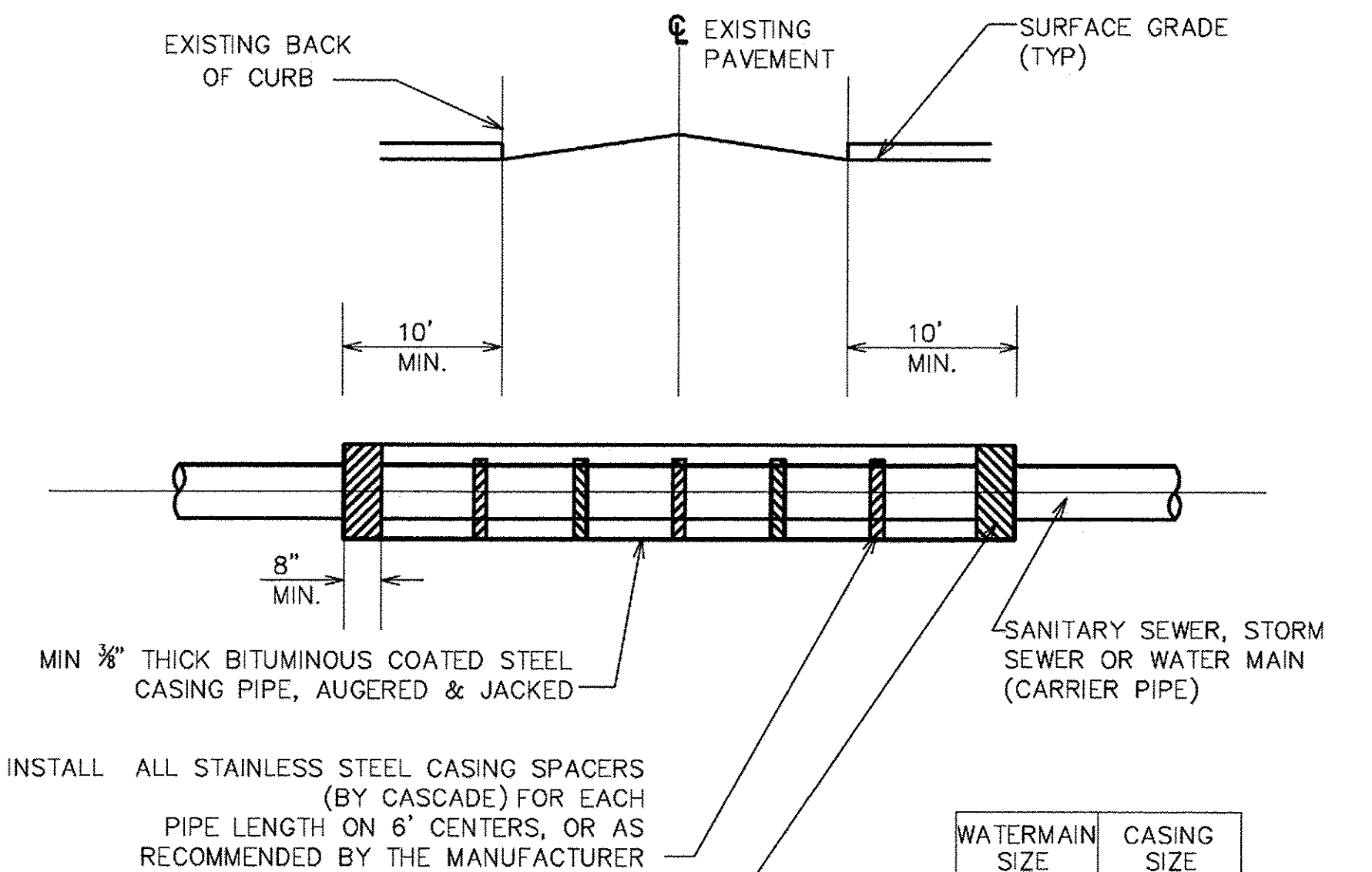
VILLAGE OF WILMETTE
PRESSURE CONNECTION DETAIL



NOTES:

1. HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATERMAINS AND SEWERS SHALL COMPLY WITH VILLAGE ENGINEERING STANDARDS MANUAL OR IEPA REQUIREMENTS, WHICHEVER IS MORE STRINGENT.
2. CONTRACTOR MAY BEND WATER MAIN PIPE UNIFORMLY UNDER SEWERS WITHOUT USING FITTINGS, PROVIDED THAT JOINT DEFLECTION DOES NOT EXCEED 5 DEGREES PER JOINT FOR PIPE UNDER 14" IN DIAMETER AND 3 DEGREES PER JOINT FOR PIPE 14" AND OVER IN DIAMETER. IF FITTINGS ARE USED, CONTINUOUS STRAPPING WITH RODS, STRAPS, NUTS AND BOLTS BELOW NORMAL WATERMAIN DEPTH ARE REQUIRED, OR RETAINER GLANDS MAY BE USED IN LIEU OF STRAPPING. RETAINER GLANDS TO BE "MEGALUG" RESTRAINT, SERIES 1100 WITH "COR TEN" BOLTS.
3. ALL SANITARY SEWER (INCLUDING SERVICE) CROSSINGS WHERE THE WATER MAINS OR WATER SERVICES ARE LESS THAN 18" VERTICALLY ABOVE THE SEWER SHALL BE POLYVINYL CHLORIDE PRESSURE PIPE (SDR 26-160 PSI) AND SHALL CONFORM WITH THE LATEST REVISION OF ASTM D- 2241. JOINTS SHALL CONFORM TO ASTM D-3139 AND ELASTOMERIC GASKETS SHALL CONFORM TO ASTM F-477. THE SAME PIPE AND JOINT MATERIALS SHALL BE USED WHENEVER WATER MAIN CROSSES BELOW THE SEWER.
4. ALL STORM SEWER (INCLUDING SERVICE) CROSSINGS WHERE THE WATER MAINS ARE LESS THAN 18" VERTICALLY ABOVE THE SEWER SHALL BE REINFORCED CONCRETE PIPE, ASTM C-361, CLASS D-25, WITH BELL AND SPIGOT JOINTS AND RUBBER GASKETS, OR PVC SDR 26 AS SPECIFIED IN NOTE 3 ABOVE. THE SAME PIPE AND JOINT MATERIAL SHALL BE USED WHENEVER WATER MAIN CROSSES BELOW THE SEWER.
5. FOR NEW SEWER INSTALLATIONS CROSSING OVER WATER MAINS, THE ENTIRE RUN OF NEW SEWER SHALL BE WATER MAIN QUALITY PIPE, EXTENDING FROM STRUCTURE TO STRUCTURE ON EACH SIDE OF THE CROSSING.

VILLAGE OF WILMETTE
WATER MAIN CROSSING DETAIL



NOTES:

1. CASING PIPE IS REQUIRED UNDER ALL EXISTING ROADWAYS, OR AS OTHERWISE DIRECTED BY VILLAGE ENGINEER WHERE OPEN CUTS ARE NOT PERMITTED, EXCEPT FOR WATER SERVICE LINES UP TO 2" IN DIAMETER.
2. WATER MAIN CASING SPACERS SHALL BE RESTRAINED IN POSITION.
3. THE INSIDE DIAMETER OF THE CASING PIPE SHALL BE DETERMINED BY CONTRACTOR BUT IN NO CASE SHALL IT BE LESS THAN 8" LARGER THAN THE DIAMETER OF THE CARRIER PIPE TO ALLOW AMPLE SPACE FOR BELLS, AND CARRIER PIPE SLOPE (FOR GRAVITY PIPE).
4. ALL AUGER PITS TO BE BACKFILLED WITH IDOT CA-7 (CRUSHED) AGGREGATE MATERIAL.

WATERMAIN SIZE	CASING SIZE
16"	24"
14"	24"
12"	20"
10"	20"
8"	20"
6"	18"
4"	10"

VILLAGE OF WILMETTE
PIPE CASING DETAIL

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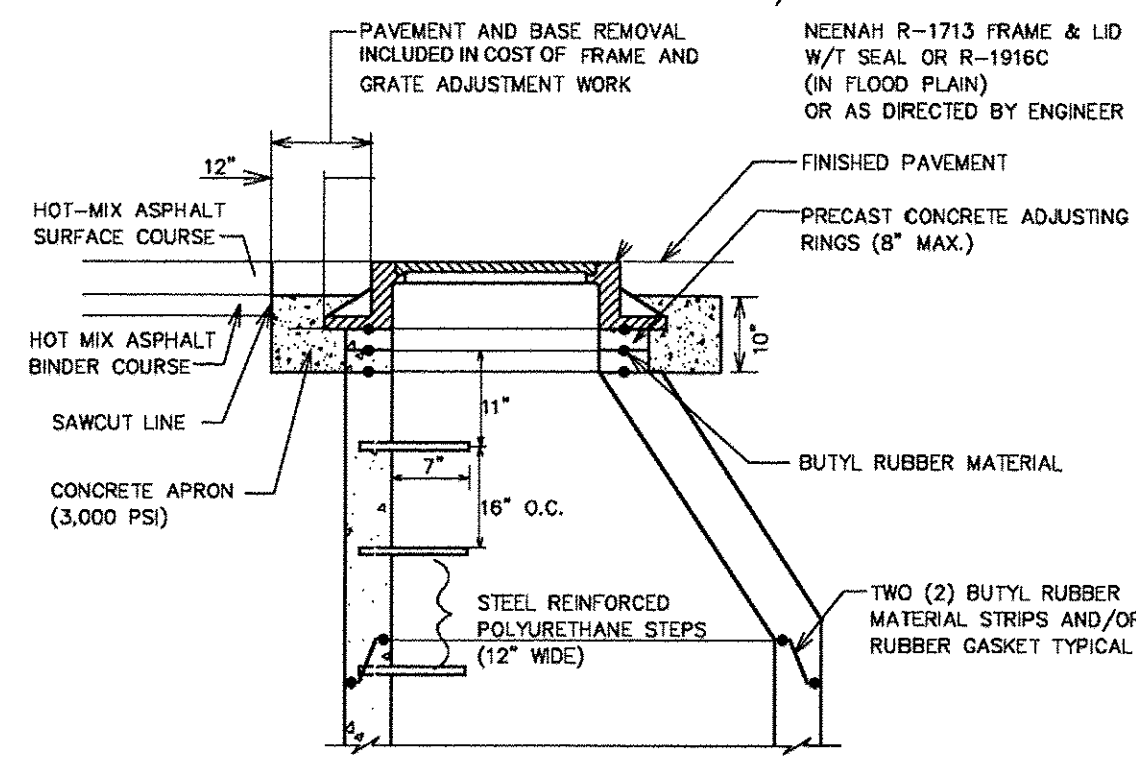
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PLOT SCALE = 20.00' / 1" =	DRAWN -	REVISED -
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	DATE = 7/28/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

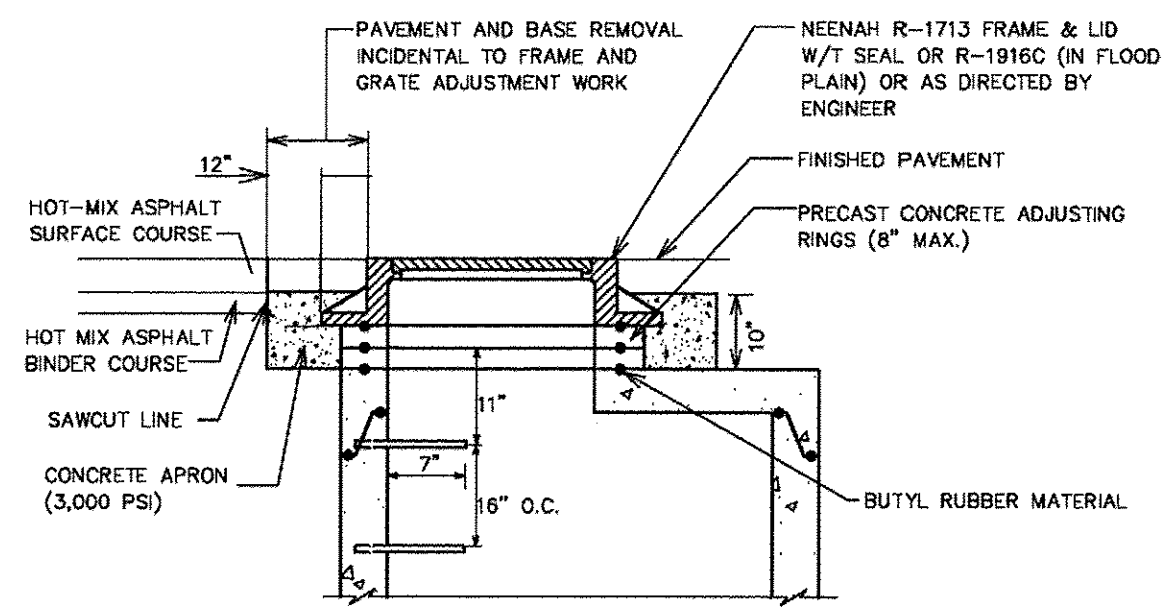
CONSTRUCTION DETAILS

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-CH	COOK	140	106
CONTRACT NO. 61C76				
ILLINOIS FED. AID PROJECT				



TYPE A (CONE)

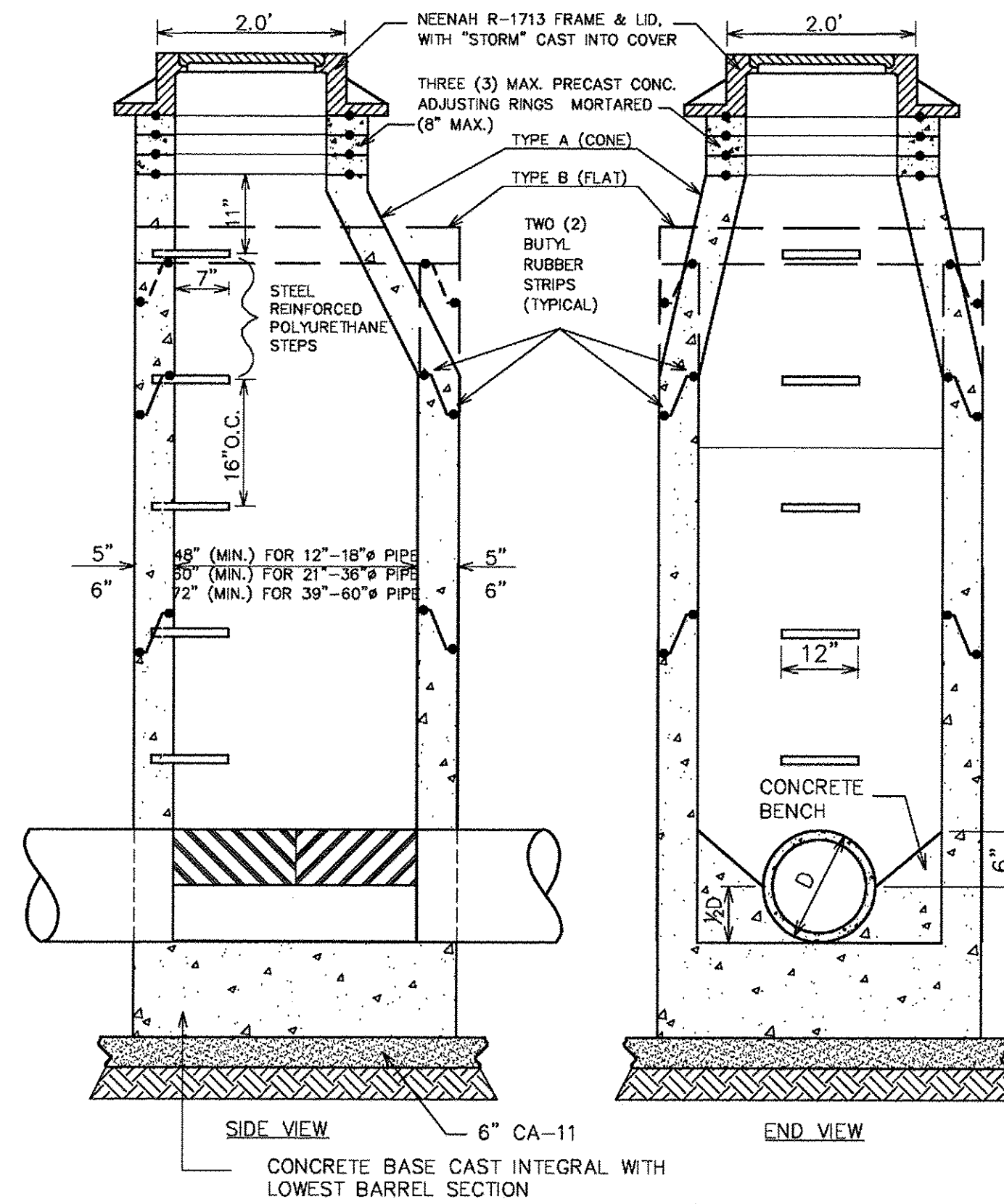


TYPE B (FLAT TOP)

NOTE:

THE REQUIRED MANHOLE FRAME AND GRATE ADJUSTMENTS, INCLUDING POURING OF CONCRETE APRON, SHALL BE PERFORMED BEFORE PLACING HOT-MIX ASPHALT SURFACE COURSE.

VILLAGE OF WILMETTE
STRUCTURE FRAME AND
GRATE ADJUSTMENT DETAIL



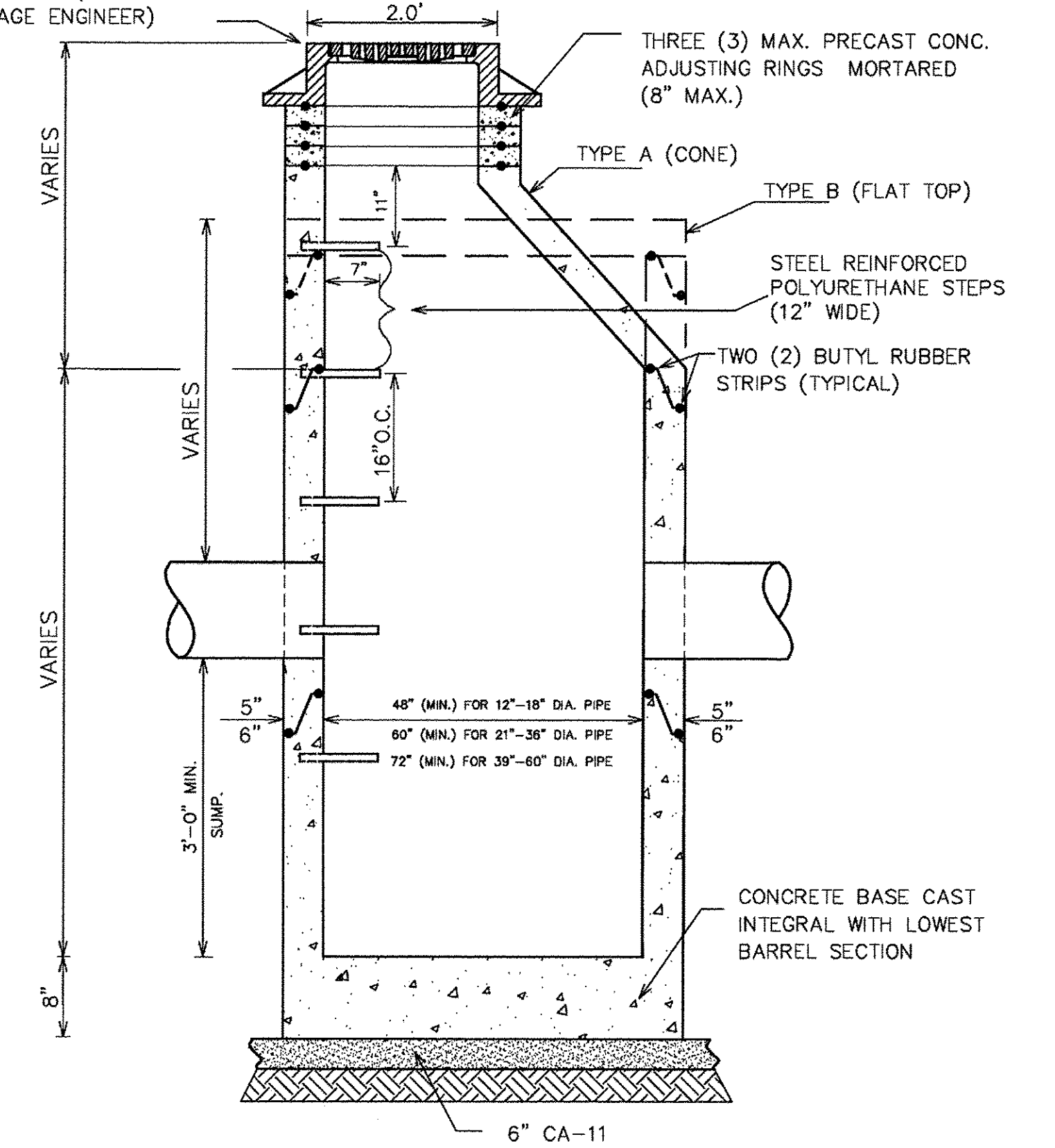
NOTES:

1. MANHOLES MUST CONFORM TO ASTM C-478.
2. MANHOLE SECTIONS TO BE TONGUE AND GROOVED.
3. BENCHES MUST BE PROVIDED IN ALL STORM SEWER MANHOLES.
4. ALL PIPE PENETRATIONS OCCURRING WITHIN (OR BELOW) GROUNDWATER TABLE AND ALL NON-PRECAST OPENINGS SHALL BE CORED, RUBBER BOOTED AND INTERIOR MORTARED AROUND PIPE.*
5. USE ECCENTRIC CONE ONLY.

* SEE PIPE CONNECTION TO STRUCTURE DETAIL U-4.

VILLAGE OF WILMETTE
STORM MANHOLE DETAIL

NEENAH R-1713 FRAME & LID WITH TYPE D GRATE AS INDICATED ON PLANS (OR DIRECTED BY VILLAGE ENGINEER)



NOTES:

1. MANHOLES MUST CONFORM TO ASTM C-478.
2. MANHOLE SECTIONS TO BE TONGUE AND GROOVED.
3. NON-PRECAST OPENINGS SHALL BE CORED, RUBBER BOOTED AND INTERIOR MORTARED AROUND PIPE.*
4. USE ECCENTRIC CONE ONLY.

* SEE PIPE CONNECTION TO STRUCTURE DETAIL U-4.

VILLAGE OF WILMETTE
CATCH BASIN DETAIL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

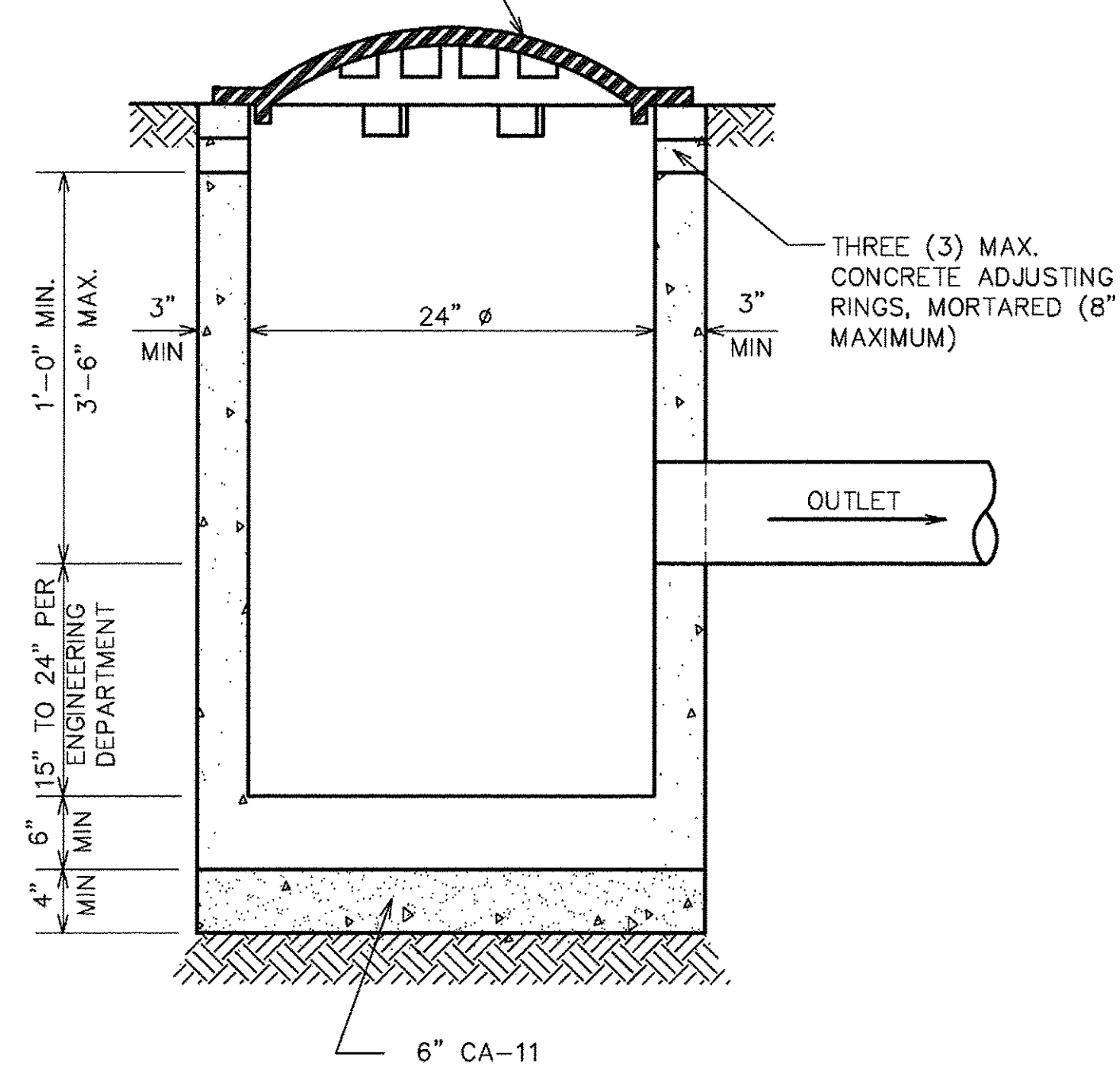
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-CH	COOK	140	108
				CONTRACT NO. 61C76
ILLINOIS FED. AID PROJECT				

AECOM

303 East Wacker Drive, Suite 1400, Chicago, IL 60601
T 1-312-373-7700 F 1-312-373-6800

USER NAME = andy.becker	DESIGNED -	REVISED -
PLOT SCALE = 20.00' / 1"	DRAWN -	REVISED -
PLOT DATE = 12/12/2016	CHECKED -	REVISED -
	DATE = 7/28/2016	REVISED -

USE NEENAH R-4340-B IN GRASSED AREAS. IN PAVED AREAS USE NEENAH R-1713 FRAME & LID WITH TYPE D GRATE.



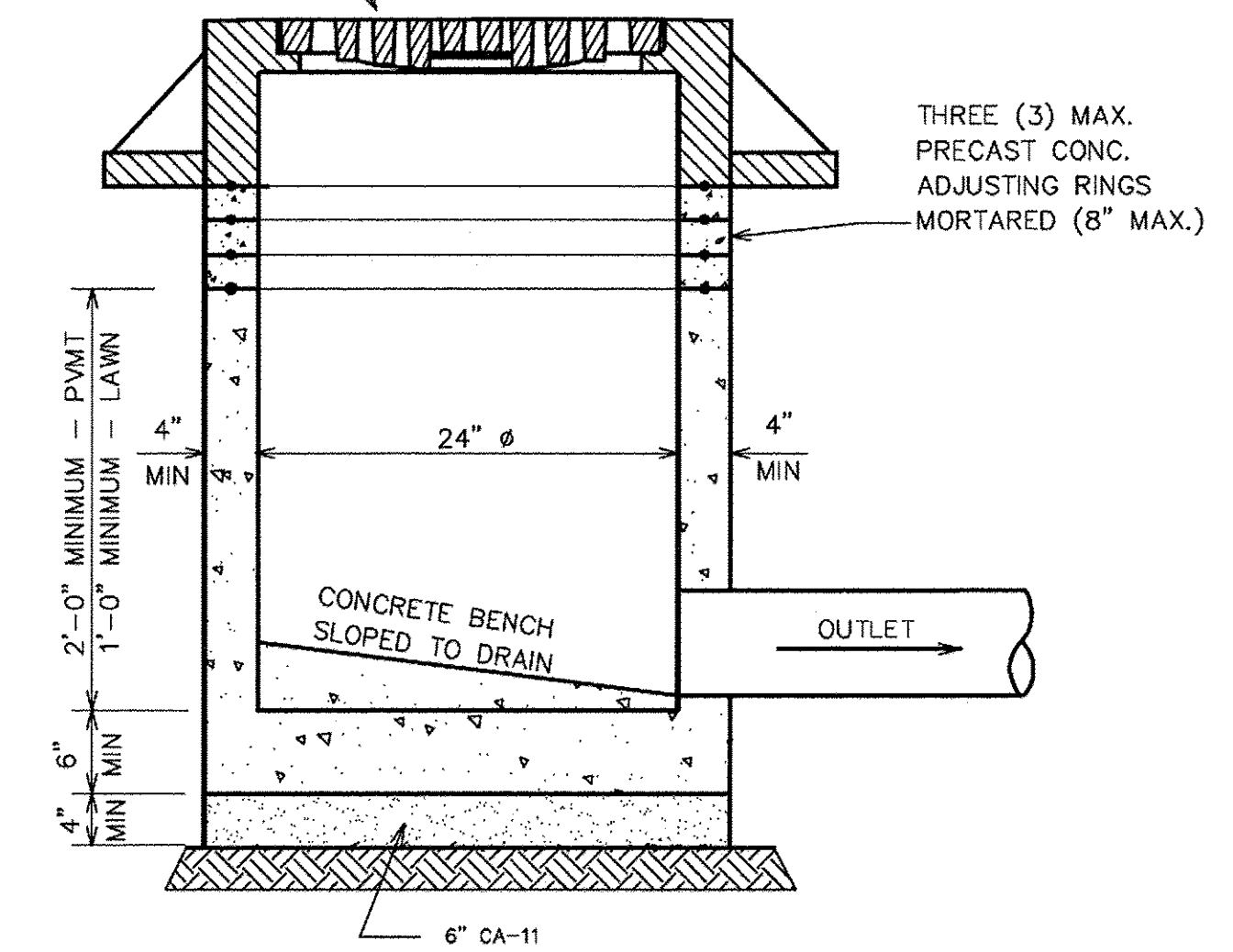
NOTE:

1. CATCH BASIN TO BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE.
2. CATCH BASIN MUST CONFORM TO ASTM C-478.
3. NON-PRECAST OPENINGS SHALL BE CORED, RUBBER BOOTED AND INTERIOR MORTARED AROUND PIPE.*
4. MAXIMUM DEPTH FROM INVERT OF OUTLET PIPE TO TOP OF FRAME SHALL NOT EXCEED 42 INCHES. IF DESIGN OR CONSTRUCTION REQUIRES DEPTH BEYOND 42 INCHES, STRUCTURE SHALL BE REVISED TO A 48 INCH DIAMETER CATCH BASIN.

* SEE PIPE CONNECTION TO STRUCTURE DETAIL U-4.

VILLAGE OF WILMETTE
TYPE C CATCH BASIN DETAIL

NEENAH R-1713 FRAME & LID WITH TYPE D GRATE AS INDICATED ON PLANS (OR DIRECTED BY VILLAGE ENGINEER)



NOTES:

1. INLET MUST CONFORM TO ASTM C-478.
2. NON-PRECAST OPENINGS SHALL BE CORED RUBBER BOOTED, AND INTERIOR MORTARED AROUND PIPE.*
3. MAXIMUM DEPTH FROM INVERT OF OUTLET PIPE TO TOP OF FRAME SHALL NOT EXCEED 42 INCHES. IF DESIGN OR CONSTRUCTION REQUIRES DEPTH BEYOND 42 INCHES, STRUCTURE SHALL BE REVISED TO A 48 INCH DIAMETER MANHOLE.
4. BENCHES MUST BE PROVIDED IN ALL INLETS.

* SEE PIPE CONNECTION TO STRUCTURE DETAIL U-4.

VILLAGE OF WILMETTE
INLET TYPE C DETAIL

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

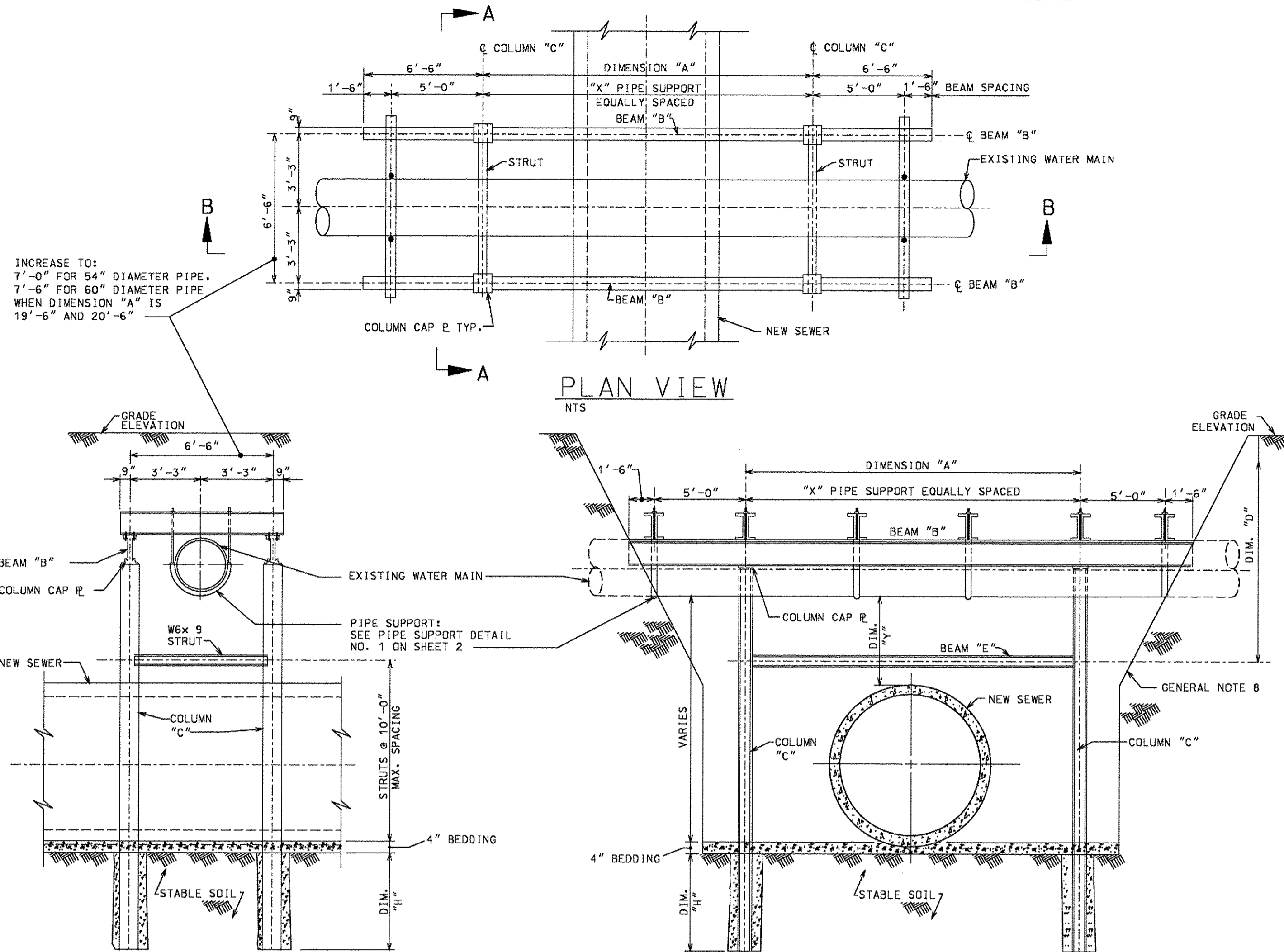
CONSTRUCTION DETAILS

SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-CH	COOK	140	109
CONTRACT NO. 61C76				
ILLINOIS FED. AID PROJECT				

TYPE I SUPPORT- TYPE A & B

TYPE I SUPPORT STRUCTURE REMAINS IN PLACE.
(USE WHEN SEWER WILL BE INSTALLED AT A FUTURE DATE OR JOB SITE CONDITIONS WILL NOT ACCOMMODATE TYPE II SUPPORT INSTALLATION)

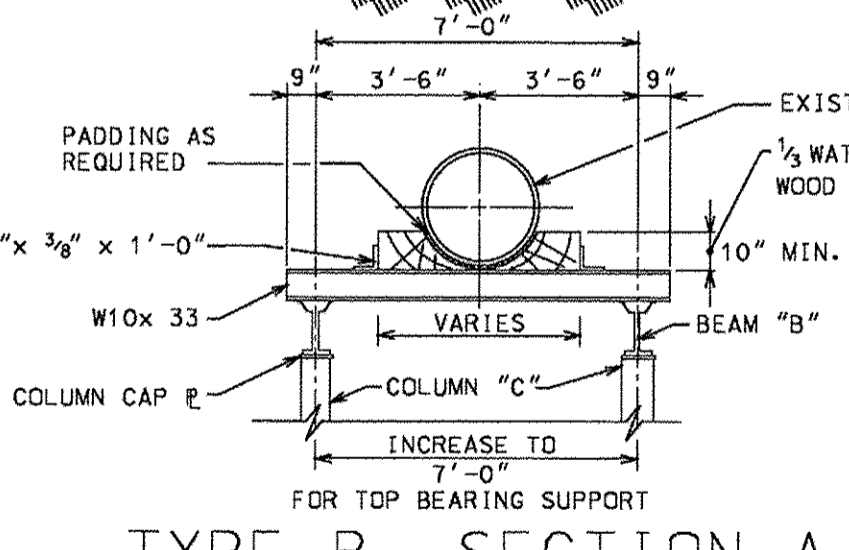


INCREASE TO:
7'-0" FOR 54" DIAMETER PIPE,
7'-6" FOR 60" DIAMETER PIPE
WHEN DIMENSION "A" IS
19'-6" AND 20'-6"

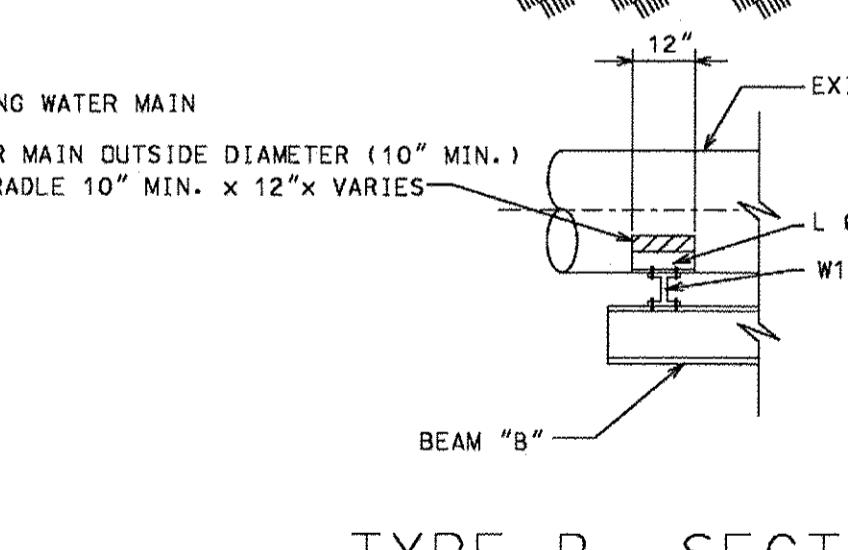
TYPE A- SECTION A

- TYPE I SUPPORT NOTES- TYPE A & B:
- SEE TYPE I SUPPORT TABLE ON SHEET 2 FOR BEAM MEMBER SIZES.
 - TYPE "A" SUPPORTS EXISTING WATER MAIN UNDERHUNG FROM CROSS BEAMS. TYPE "B" SUPPORTS EXISTING WATER MAIN BEARING ON TOP OF CROSS BEAMS. WHEN DIMENSION "y" IS LESS THAN 2'-6" TYPE "A" SUPPORT MUST BE USED. MINIMUM DIMENSION "y" FOLLOW IEPA REGULATIONS.
 - BACKFILL WITH CRUSHED STONE FILL MATERIAL OR CLSM AS REQUIRED.
 - AS DIRECTED BY THE COMMISSIONER, TYPE "A" SUPPORTS ABOVE THE COLUMN CAP PLATE MAY BE REMOVED. ONLY CLSM BACKFILL WILL BE ACCEPTED FOR THIS CONDITION.

TYPE B- SECTION A



TYPE B- SECTION B

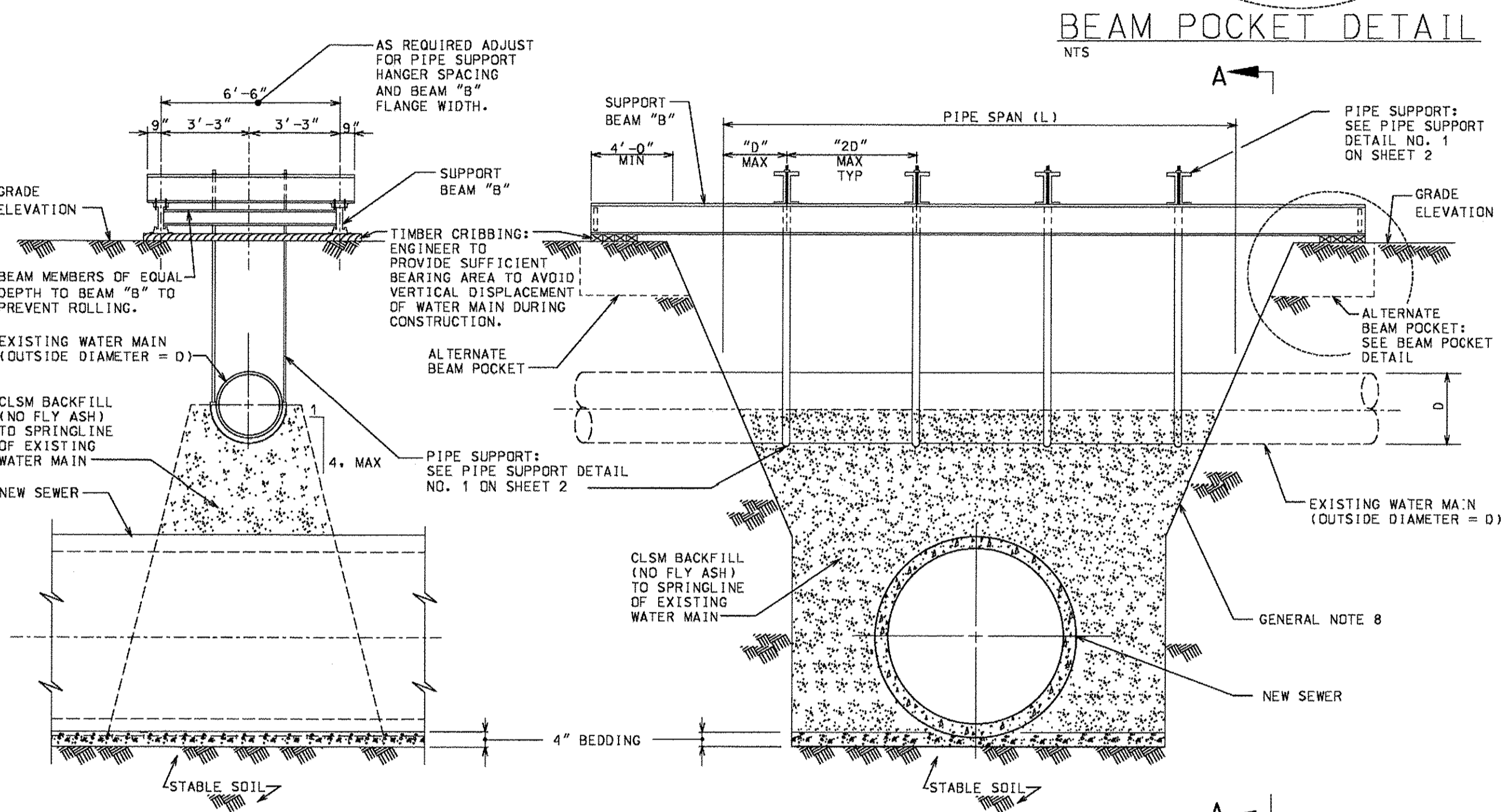
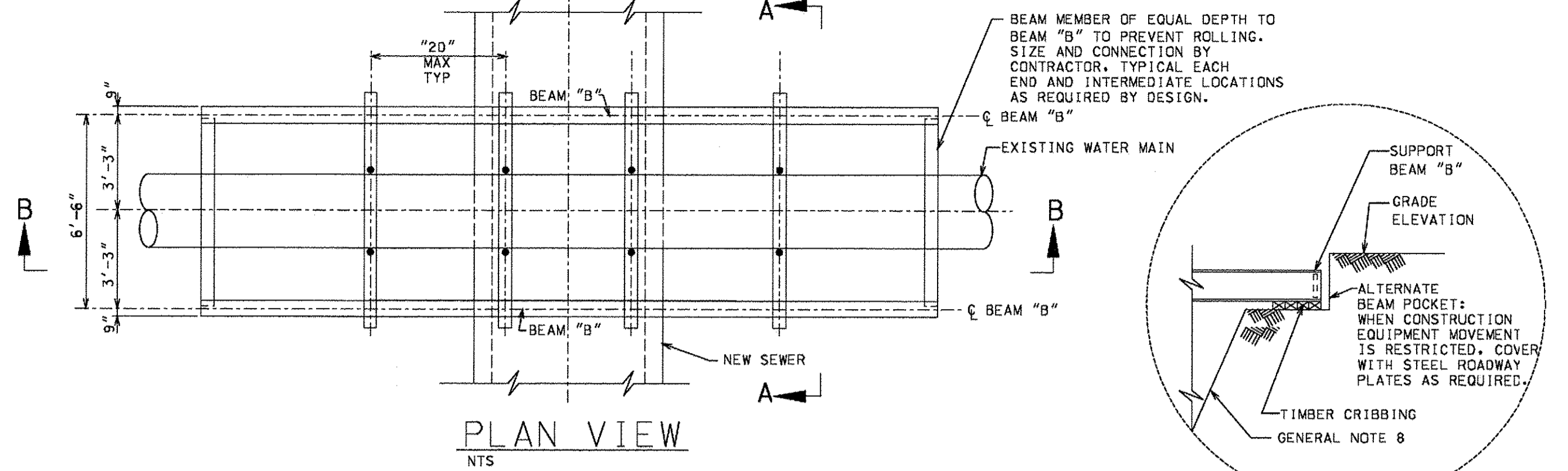


SUPPORT OF EXISTING WATER MAIN CAST IRON, DUCTILE IRON OR CONCRETE CYLINDER PIPE

- GENERAL NOTES FOR TYPE I & II SUPPORTS:
- TYPE II SUPPORT IS CDWM PREFERRED SUPPORT METHOD. USE TYPE I SUPPORT WHEN SEWER WILL BE INSTALLED AT A FUTURE DATE REQUIRING A SECOND EXCAVATION. TYPE I SUPPORT MUST ALSO BE INSTALLED WHEREVER JOB SITE CONDITIONS WILL NOT ACCOMMODATE TYPE II SUPPORT TO BE INSTALLED (SUCH AS LOCATIONS WHERE THE WIDTH OF EXCAVATION WOULD CREATE EXCESSIVE ROADWAY LANE CLOSURES). IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SELECT THE APPROPRIATE TYPE OF PIPE SUPPORT METHOD FOR CONDITIONS AT THE JOB SITE, OR AS DIRECTED BY THE ENGINEER.
 - THESE DETAILS ARE PROVIDED FOR REFERENCE ONLY AND DO NOT REPRESENT A COMPLETE DESIGN. THE CONTRACTOR MUST COMPLETE THE DESIGN FOR EACH LOCATION WHERE WATER MAIN SUPPORT IS TO BE IMPLEMENTED. THE COMPLETE DESIGN MUST INCLUDE (BUT NOT LIMITED TO) STRUCTURAL STEEL CONNECTION DETAILS, COLUMN BRACE SIZE AND SPACING, CONSIDERATION OF BEAM BEARING LOADS ON EXISTING ROADWAY SURFACES OR GRADE, EFFECTS OF BUOYANCY ON THE NEW SEWER DUE TO FLOWABLE CLSM, FOUNDATION DEPTH AND DIAMETER BASED ON BEST AVAILABLE SOIL DATA, AND DESIGN FOR SUPPORT OF EXCAVATIONS.
 - THESE DETAILS WERE DEVELOPED FOR SUPPORT OF WATER MAINS UP TO 60 INCHES IN DIAMETER, UP TO 6 FEET OF COVER AND AASHTO HS 20-44 WHEEL LOADS.
 - DUCTILE IRON PIPE MUST BE WRAPPED IN POLYETHYLENE PRIOR TO PLACEMENT OF BACKFILL.
 - THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR THE SUPPORT METHOD USED STAMPED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF ILLINOIS. THE DESIGN MUST TAKE INTO ACCOUNT THE ACTUAL FIELD VERIFIED DIMENSIONS, SPANS, AND TRIBUTARY LOADING WHICH MAY EXCEED VALUES SHOWN. CDWM MAINTAINS A RECORD OF BURIED TYPE I SUPPORT STRUCTURES AND THEIR LOCATIONS. THE CONTRACTOR MUST FURNISH AS-BUILT DRAWINGS FOR THIS RECORD.

TYPE II SUPPORT

TYPE II SUPPORT STRUCTURE WILL BE REMOVED.
(USE WHEN SEWER WILL BE INSTALLED IMMEDIATELY)



SECTION A

SECTION B

- TYPE II SUPPORT NOTES:
- THIS DETAIL APPLIES TO THE TEMPORARY SUPPORT OF EXISTING WATER MAINS UP TO 60 INCH INSIDE DIAMETER. SUPPORT BEAMS, CROSS BEAMS, PIPE SUPPORT, AND TIMBER CRIBBING MUST BE REMOVED AFTER CLSM BACKFILL HAS ATTAINED THE COMPRESSIVE STRENGTH THAT SATISFIES THE ENGINEER.
 - CONTRACTOR TO MONITOR CCP EXPOSED GROUTED JOINTS FOR SIGNS OF CRACKING WHILE THE PIPE IS SUPPORTED. IF SMALL CRACKS APPEAR, FILL WITH A FAST SETTING PORTLAND CEMENT WATER STOP (SIKASET PLUG OR APPROVED EQUAL).

- THE DESIGN OF THE MAIN SUPPORT BEAM "B" MUST LIMIT TOTAL DEFLECTION OF THE PIPE TO L/480 OF THE PIPE SPAN (L).
- MATERIAL PROPERTIES MUST MEET THE FOLLOWING CRITERIA:
W-SHAPES: ASTM A992 GRADE 50
CHANNELS: ASTM A36
PLATES & BARS: ASTM A36
THREADED RODS: ASTM A36
HSS SHAPES: ASTM A500 GRADE B
HIGH STRENGTH BOLTS: ASTM A325 N-BOLTS
CLSM: IDOT STANDARD SPECIFICATIONS SECTION 1019 MIX 2
- THE CONTRACTOR MUST SLOPE TRENCH WALLS OR SHORE EXCAVATIONS FOR CONSTRUCTION SAFETY AND IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS. THE OVERALL WIDTH OF EXCAVATION, TRAFFIC CONTROL, AND PROTECTION MUST BE SUBMITTED TO CDWM FOR REVIEW PRIOR TO THE START OF CONSTRUCTION.
- OPEN EXCAVATIONS AND IN PLACE FLOWABLE CLSM BACKFILL MUST BE CORDED OFF OR COVERED TO PROVIDE PROTECTION AGAINST ACCIDENTAL FALLING.
- REFER TO STANDARD SPECIFICATIONS FOR WATER MAIN CONSTRUCTION FOR ADDITIONAL INFORMATION.

FILE NAME = P:\6044116\900\work\910\CD\20-SHEETS\CH2-0125-WF-Details\04.dgn

REV:04.13



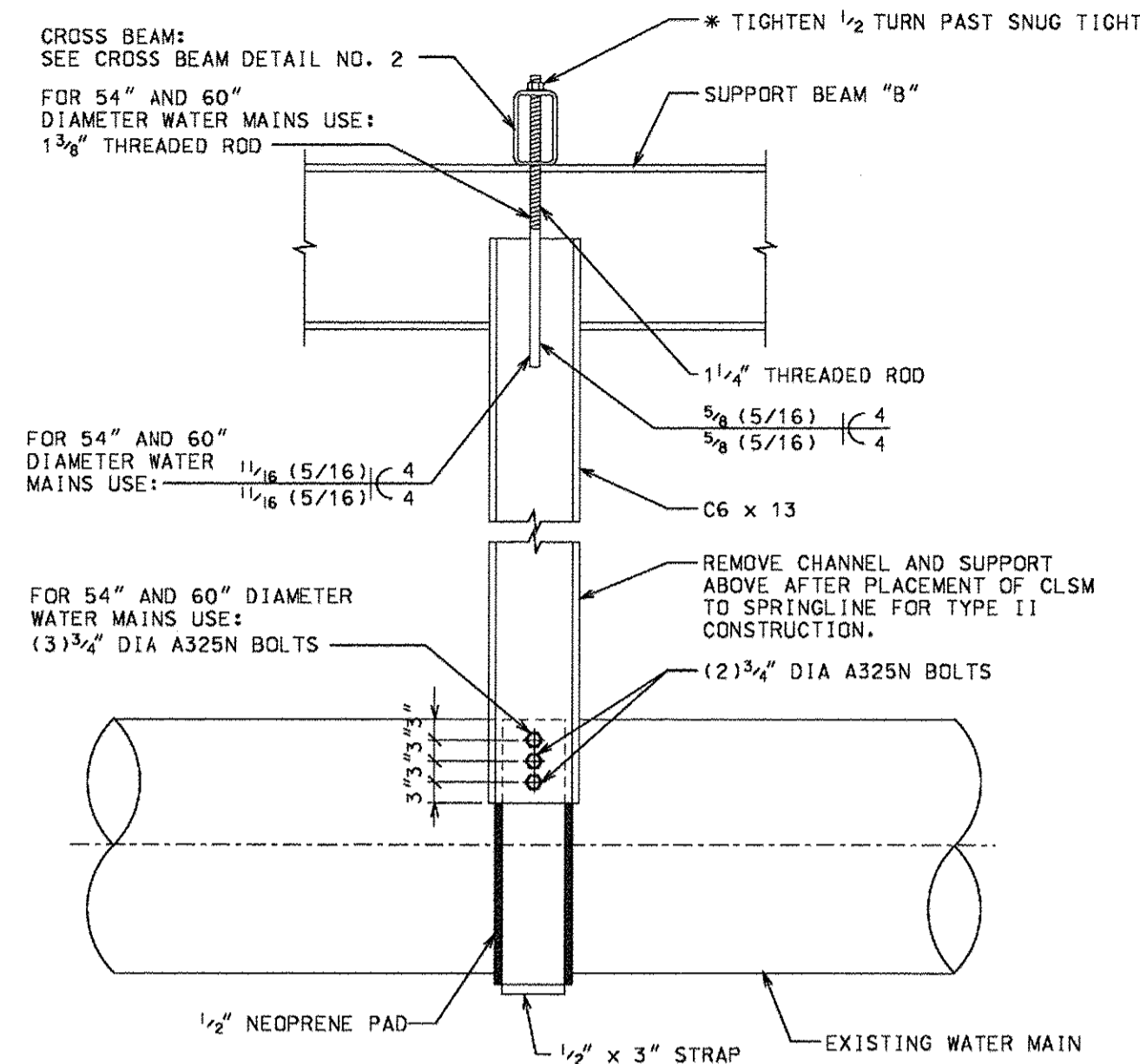
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PLOT SCALE = 20.00' / in.	DRAWN -	REVISED -
PLOT DATE = 12/12/2016	CHECKED -	REVISED -
	DATE = 7/28/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

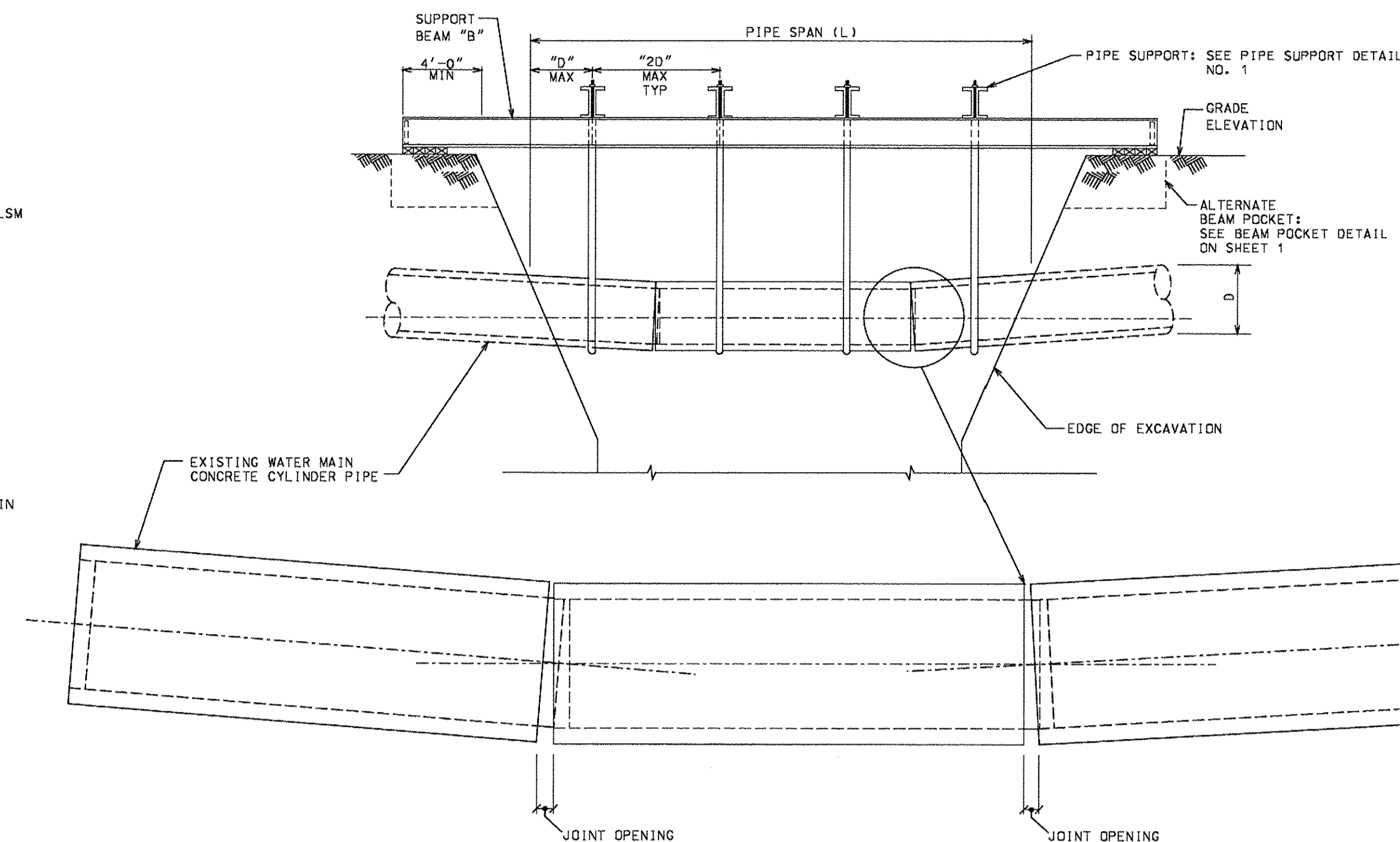
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-CH	COOK	140	110
CONTRACT NO. 61C76				
ILLINOIS FED. AID PROJECT				



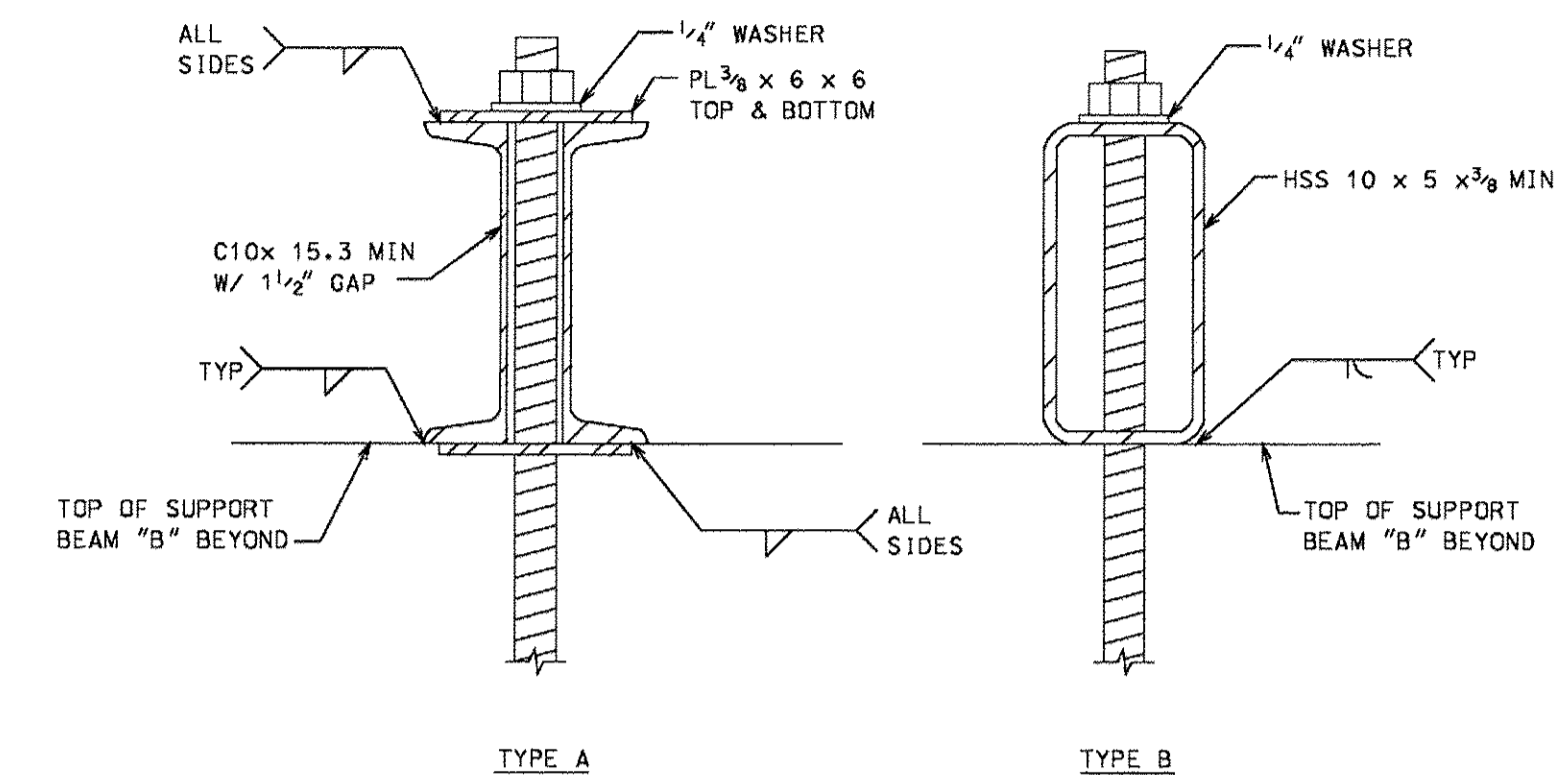
① PIPE SUPPORT DETAIL

- NTS
 1. MINIMUM TWO PIPE SUPPORTS PER PIPE SEGMENT.
 2. WELDED CONNECTION MAY BE SUBSTITUTED FOR BOLTED CONNECTION WHEN SUPPORT STRUCTURE IS TO REMAIN IN PLACE PERMANENTLY.



CONCRETE CYLINDER PIPE DEFLECTION CRITERIA

* CONTRACTOR TO TIGHTEN ADJUSTING LOAD IN EACH HANGER SUCH THAT PIPE JOINTS DO NOT OPEN EXCEEDING MANUFACTURE'S RECOMMENDATIONS. LEAKAGE OR FAILURE OF THE WATER MAIN IS THE CONTRACTOR'S RESPONSIBILITY.



② CROSS BEAM DETAIL

- NTS
 1. CONTRACTOR WILL TACK WELD NUT OR SUPPLY A SECOND NUT AS APPROPRIATE FOR LOCKING NUT ROTATION ON THREADED RODS USED FOR PERMANENT AND TEMPORARY WATER MAIN SUPPORT.
 2. CONTRACTOR WILL RECORD SUPPORT BEAM AND WATER MAIN ELEVATIONS AND THEN MONITOR ELEVATIONS DURING CONSTRUCTION FOR ANY SETTLEMENT. UNEVEN SETTLEMENT SHOULD BE ANTICIPATED AND SHIMS PROVIDED.

LOCATION	SHEET NO.	BID ITEM NO.	DIA. OF SEWER	DIMENSION "A"	"X" NUMBER OF SPACES	DIMENSION "D"	BEAM SIZE "E"	DIMENSION "H"	TYPE I SUPPORT - TYPE A			TYPE I SUPPORT - TYPE B								
									WATER MAIN HANGING FROM STRUCTURE			WATER MAIN BEARING ON STRUCTURE								
									24", 30" & 36" DIA. W.M.	42" & 48" DIA. W.M.	54" & 60" DIA. W.M.	24", 30" & 36" DIA. W.M.	42" & 48" DIA. W.M.	54" & 60" DIA. W.M.						
			30" & 36"	13'-0"	3				BEAM "B"	COLUMN "C"	BEAM "B"	COLUMN "C"	BEAM "B"	COLUMN "C"	BEAM "B"	COLUMN "C"				
			42" & 48"	14'-0"	3				W10x39	W8x24	W12x40	W8x24	W14x43	W8x31	W12x40	W8x24	W14x43	W8x31		
			54" & 60"	15'-0"	3				W10x39	W8x24	W12x40	W8x24	W14x61	W8x31	W12x40	W8x24	W14x43	W8x24	W14x61	W8x31
			66" & 72"	16'-0"	4				W12x40	W8x24	W14x43	W8x24	W14x61	W8x31	W12x40	W8x24	W14x43	W8x24	W14x61	W8x31
			78" & 84"	17'-6"	4				W12x45	W8x31	W14x48	W8x31	W14x68	W8x40	W14x48	W8x31	W14x61	W8x31	W14x68	W8x40
			90" & 96"	18'-6"	4				W14x48	W8x31	W14x53	W8x31	W14x82	W8x40	W14x53	W8x31	W14x61	W8x31	W14x82	W8x40
			102" & 108"	19'-6"	4				W14x53	W8x31	W14x61	W8x31	W14x90	W8x40	W14x53	W8x31	W14x61	W8x31	W14x90	W8x40
			114" & 120"	20'-6"	4				W14x61	W8x31	W14x68	W8x31	W14x99	W8x40	W14x61	W8x31	W14x68	W8x31	W14x99	W8x40

TYPE I SUPPORT TABLE

SUPPORT OF EXISTING WATER MAIN CAST IRON, DUCTILE IRON OR CONCRETE CYLINDER PIPE DETAILS

REV:04.13

FILE NAME = F:\6844116\9800_NorA\910_CADD\20-SHEET\3-CH12-0120-WM-Devel.dwg



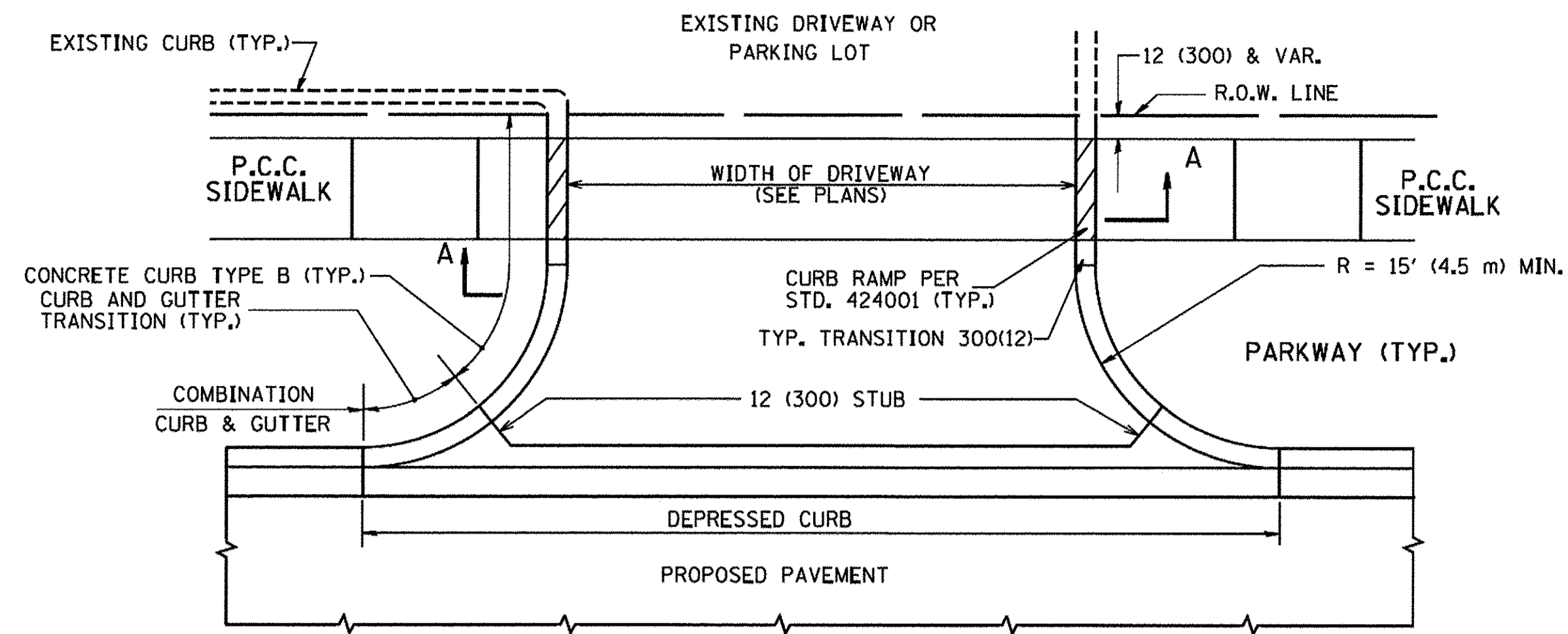
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PLOT SCALE = 20.00' / 1"	DRAWN -	REVISED -
PLOT DATE = 12/12/2016	CHECKED -	REVISED -
	DATE = 7/28/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

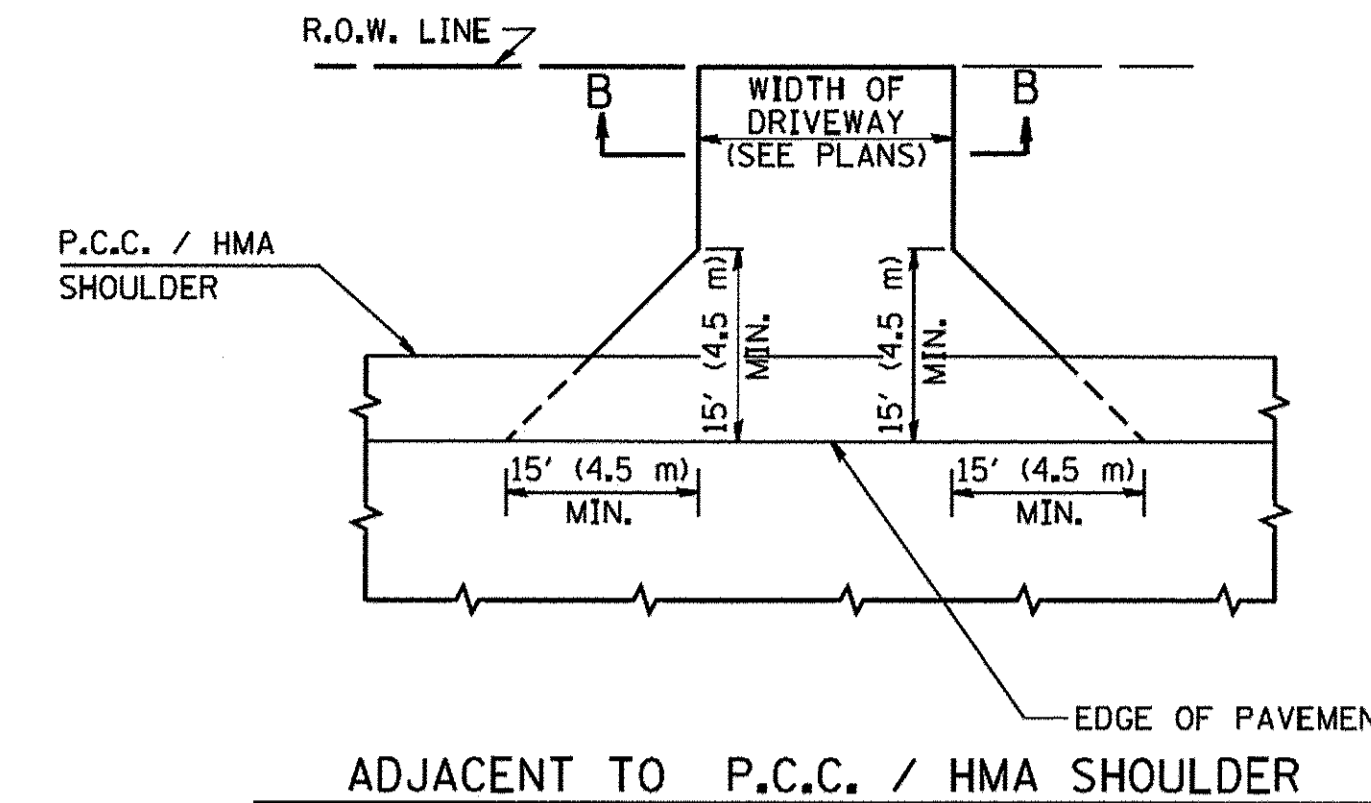
CONSTRUCTION DETAILS

SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.

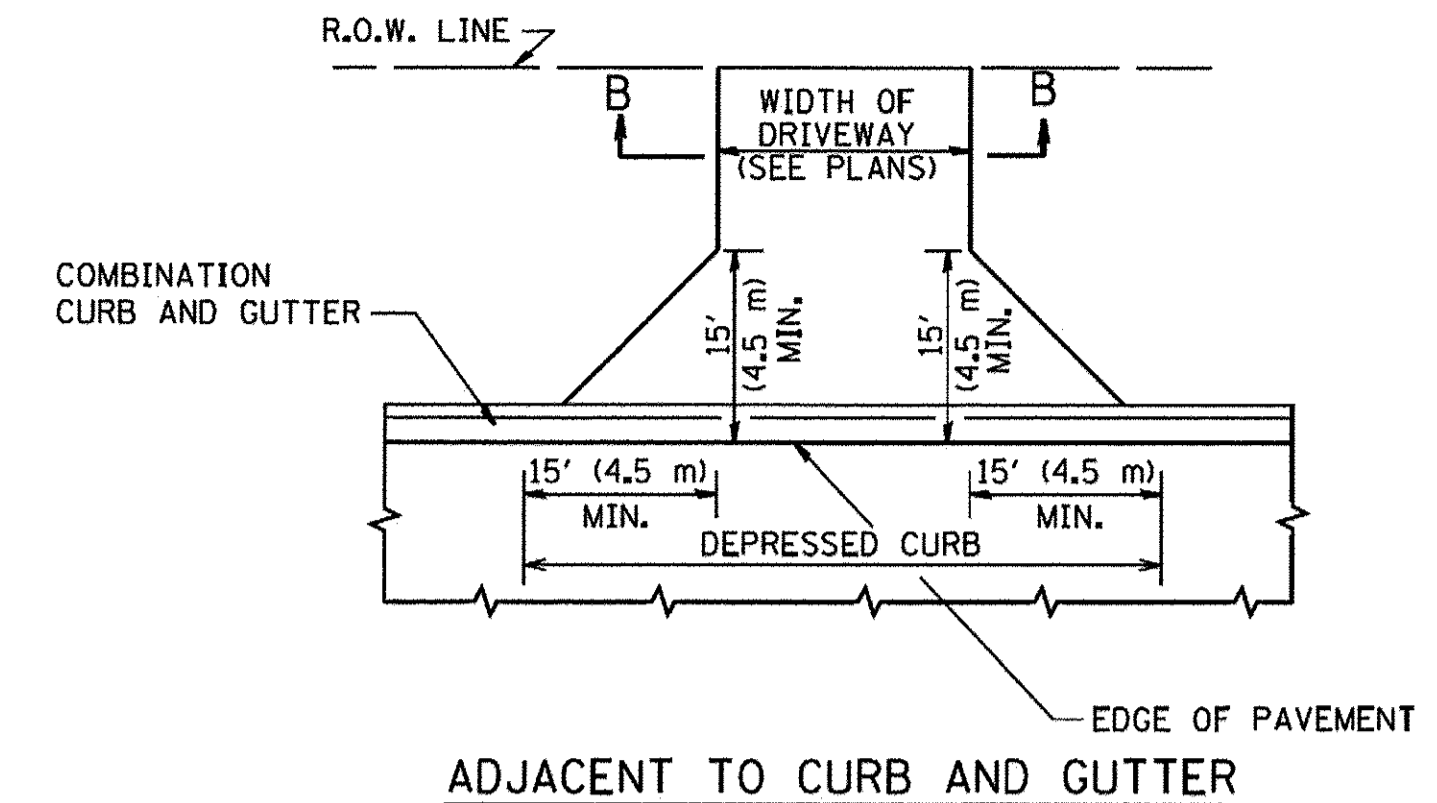
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61C76			ILLINOIS FED. AID PROJECT	



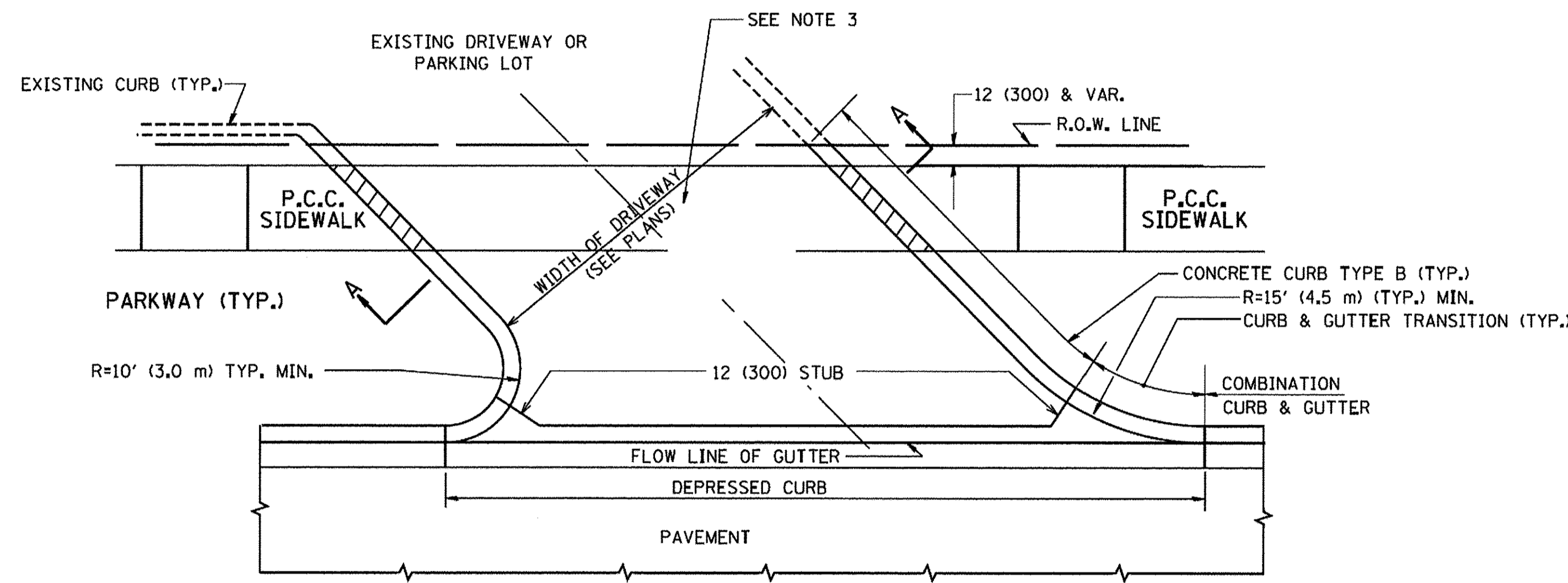
WITH CONCRETE CURB, TYPE B



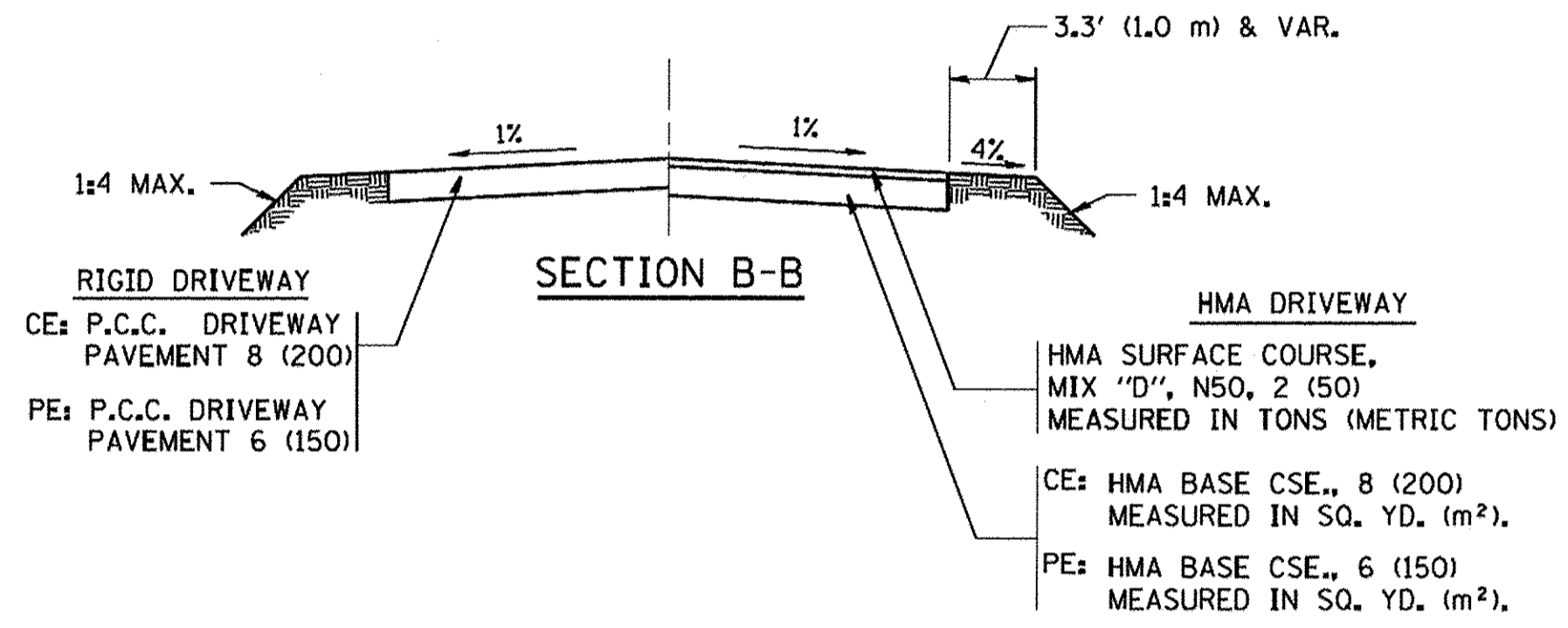
ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



WITH CONCRETE CURB, TYPE B



RURAL FIELD ENTRANCE (FE)
 HMA SURFACE COURSE,
 MIX "D", N50, 2 (50)
 MEASURED IN TONS (METRIC TONS)
 AGGREGATE BASE CSE., TYPE B, 8 (200)
 MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

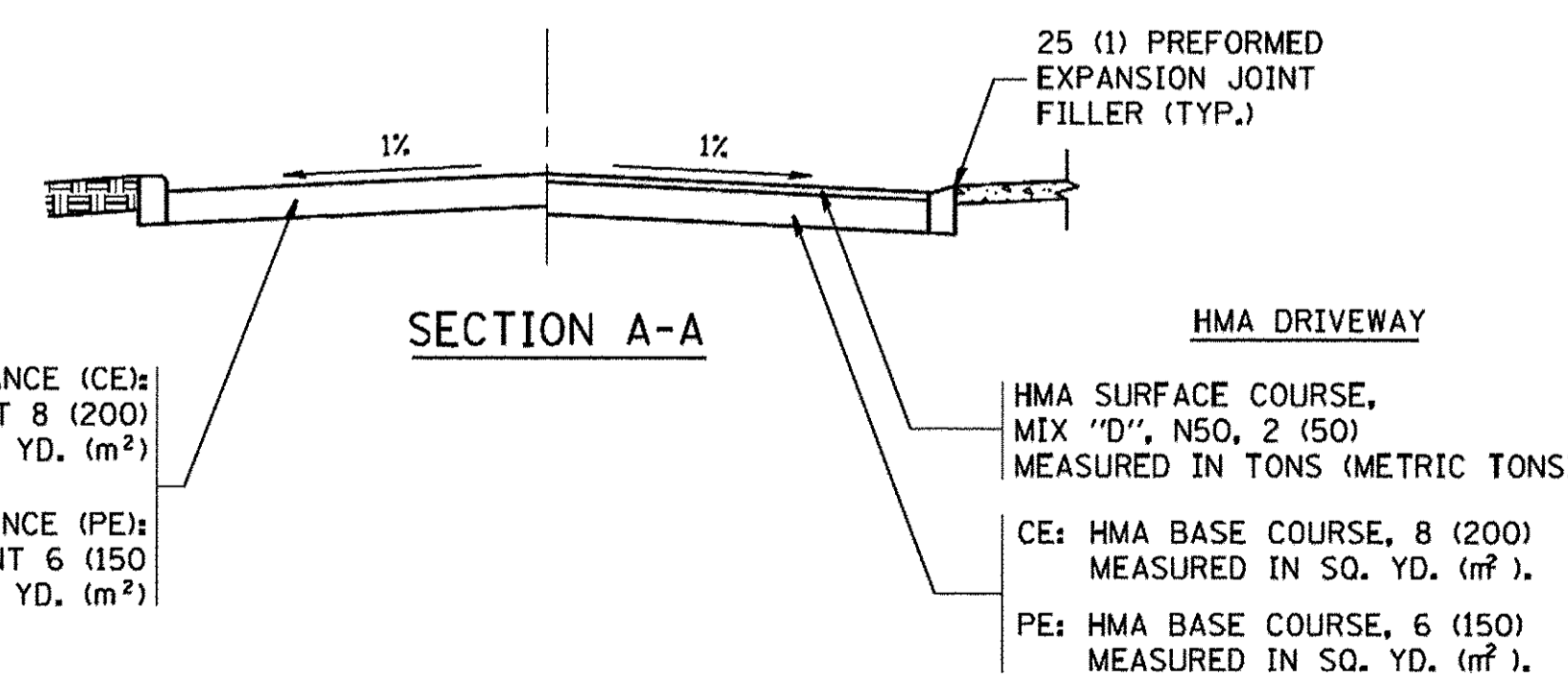
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.



SECTION A-A

FILE NAME = P:\604411B\900L\Work\910_CADD\20-SHEET\CH2-0128-bdr-01-01-DocSet.dgn



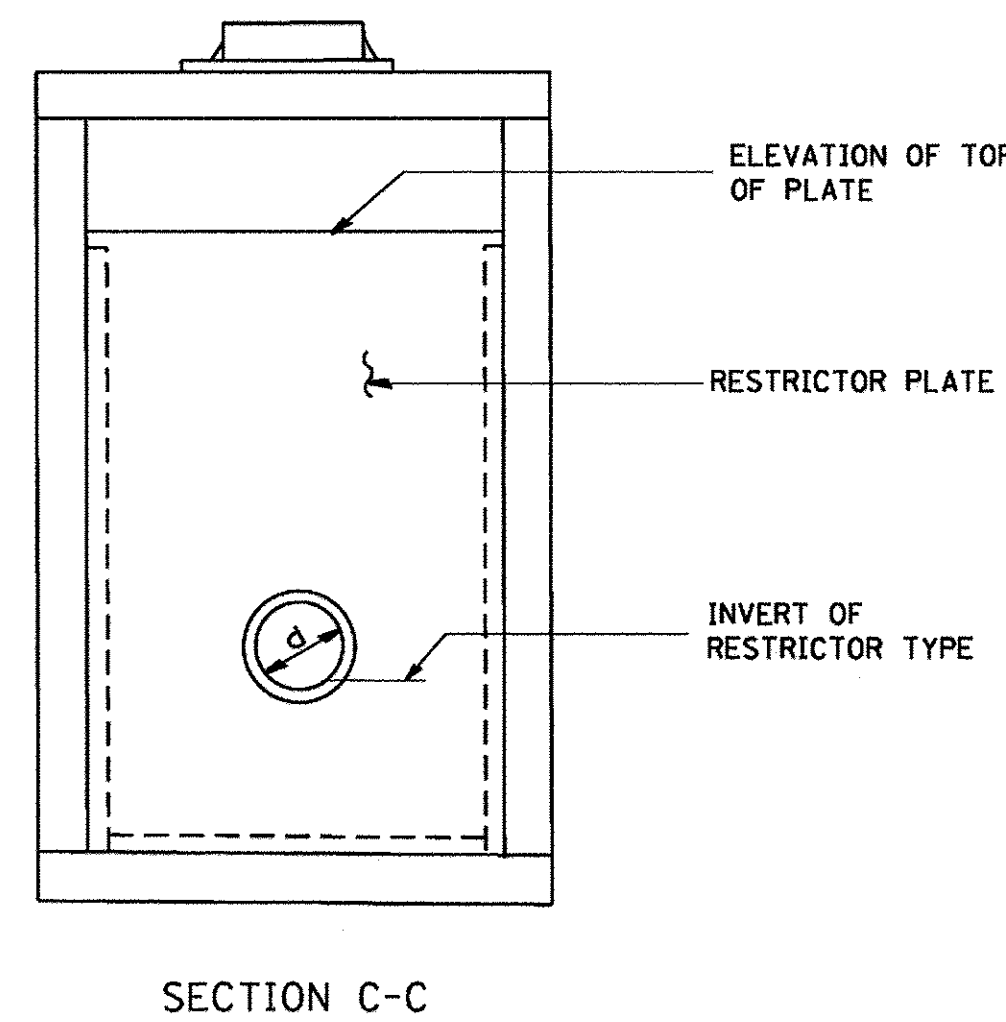
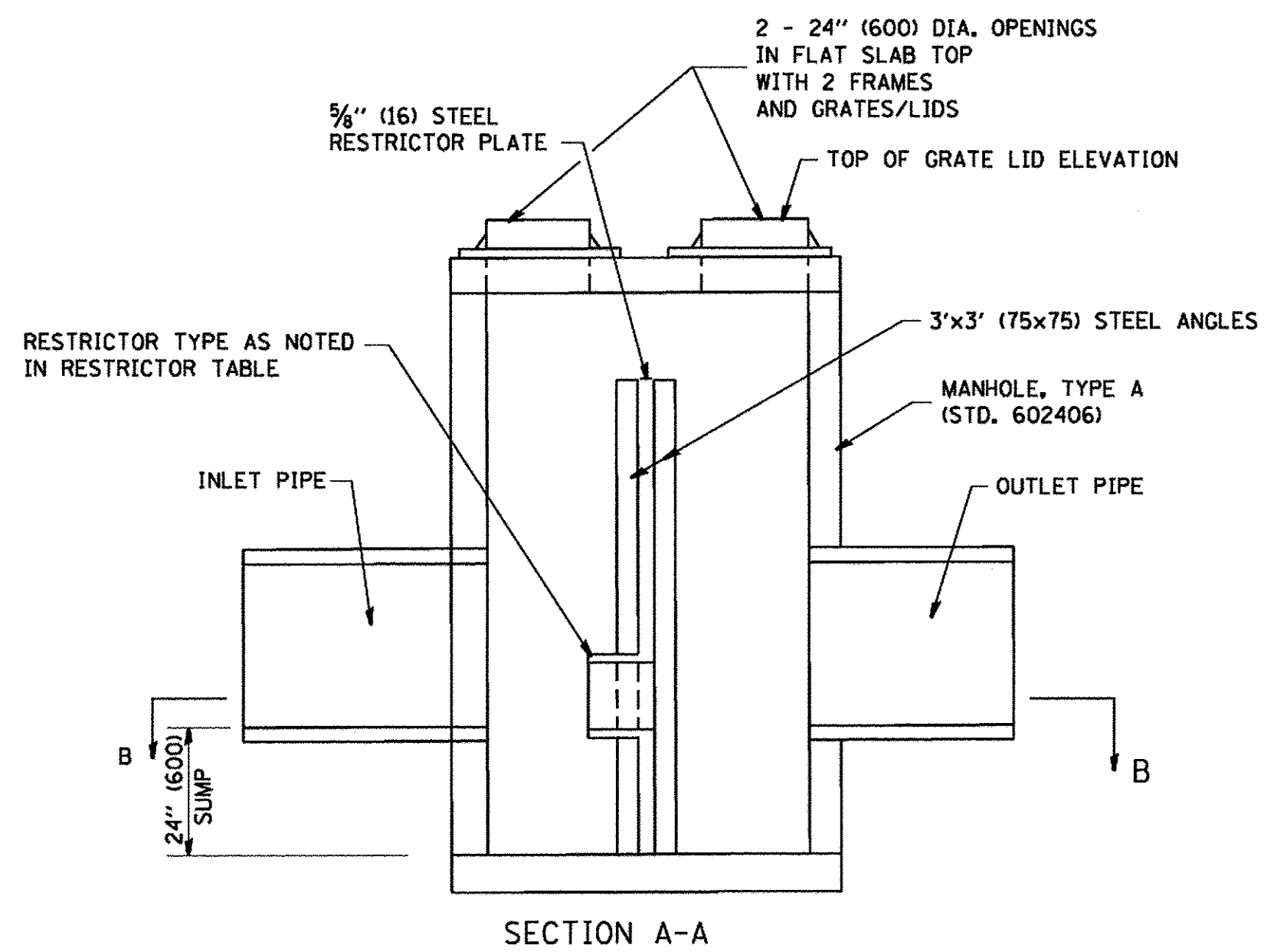
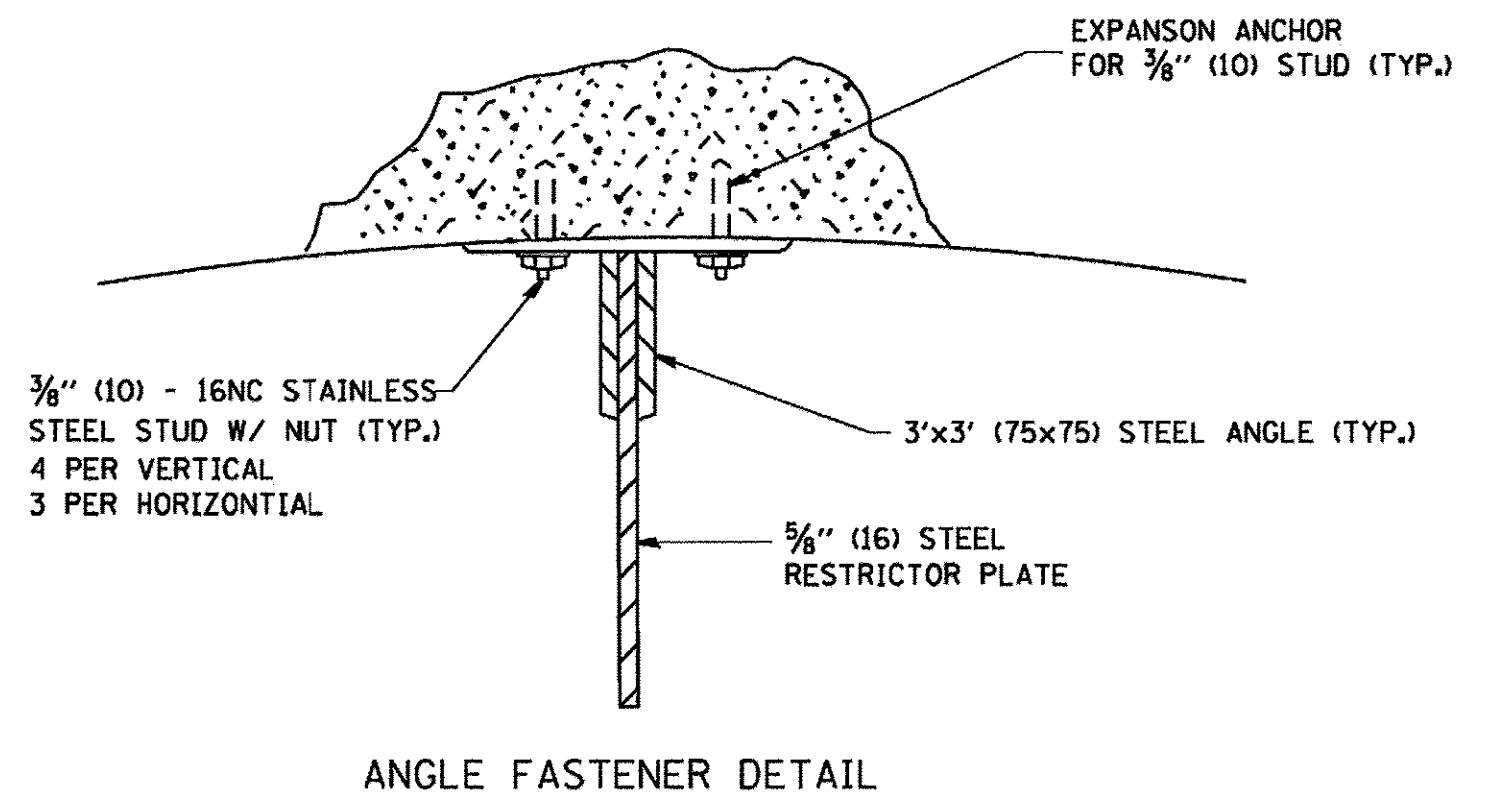
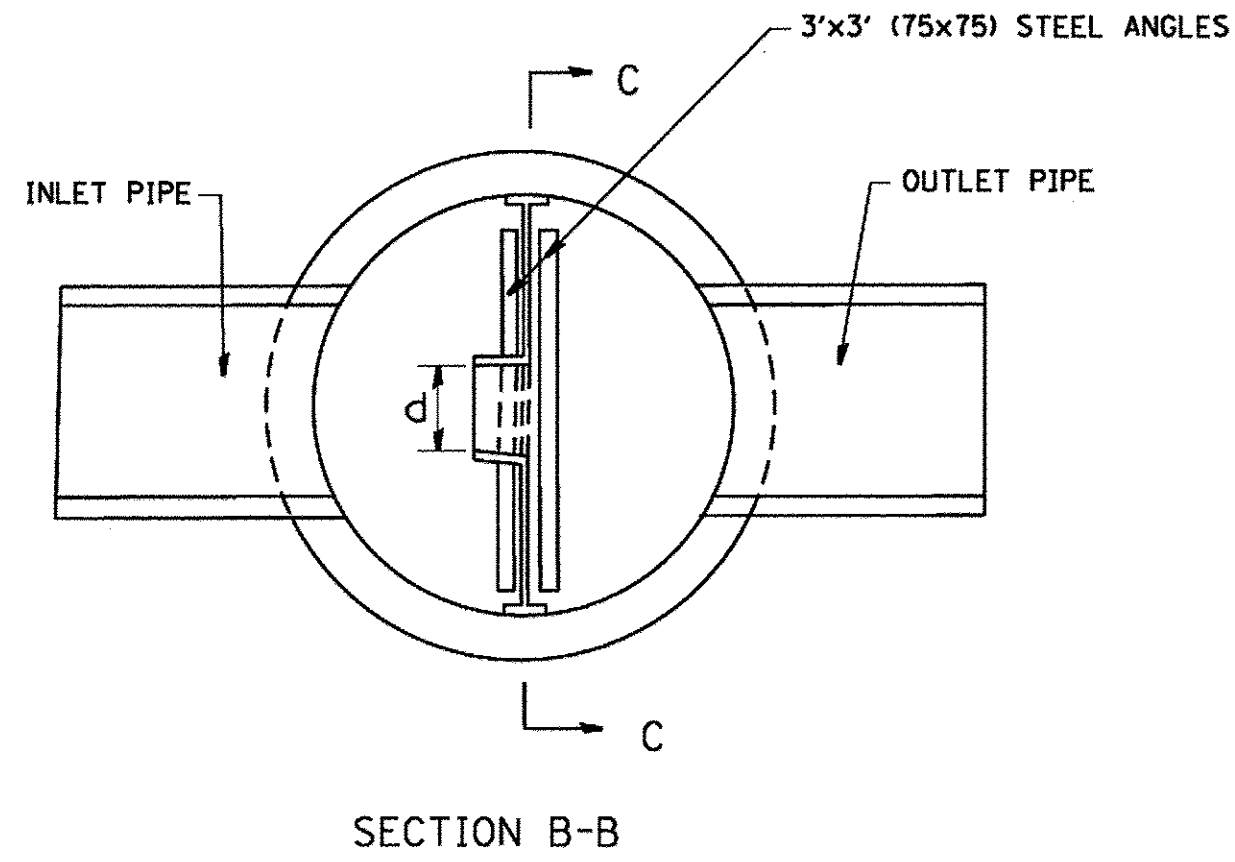
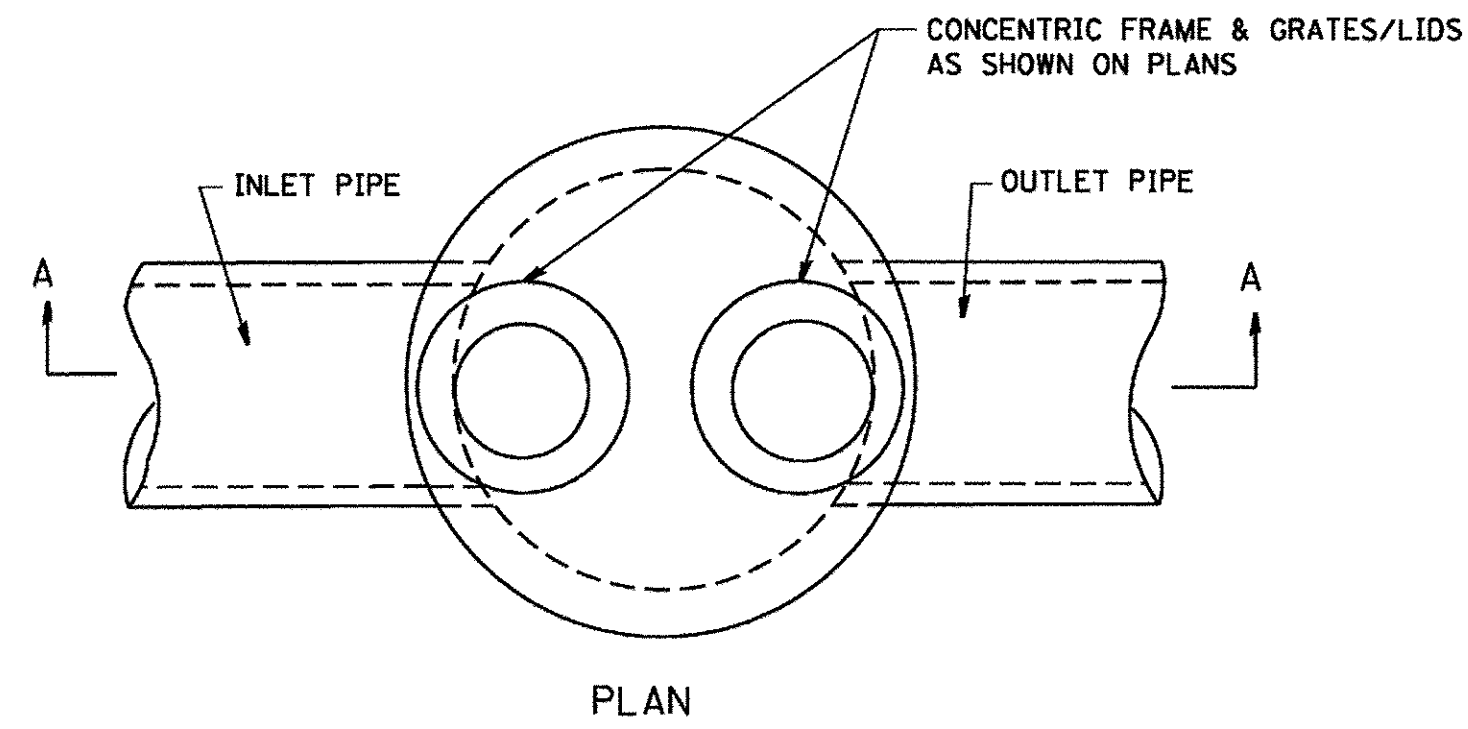
USER NAME = andy.becker	DESIGNED -	REVISED - P. LAFUER 04-15-03
PLOT SCALE = 50,0001' / 1"	DRAWN -	REVISED - R. BORO 01-01-07
PLOT DATE = 12/12/2016	CHECKED -	REVISED - R. BORO 06-11-08
	DATE = 7/28/2016	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

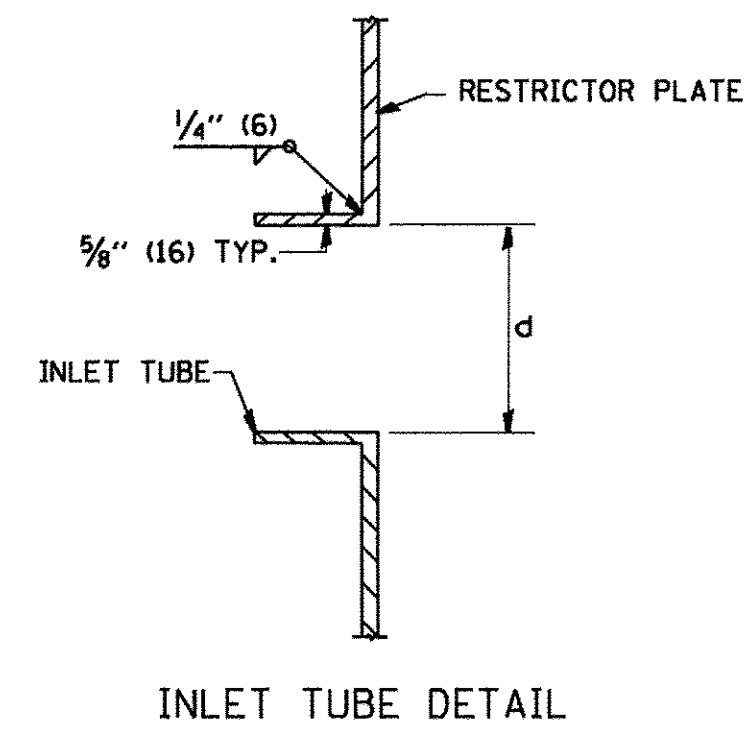
DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.
 AND FACE OF CURB & EDGE OF SHOULDER >= 15'(4.5M)

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

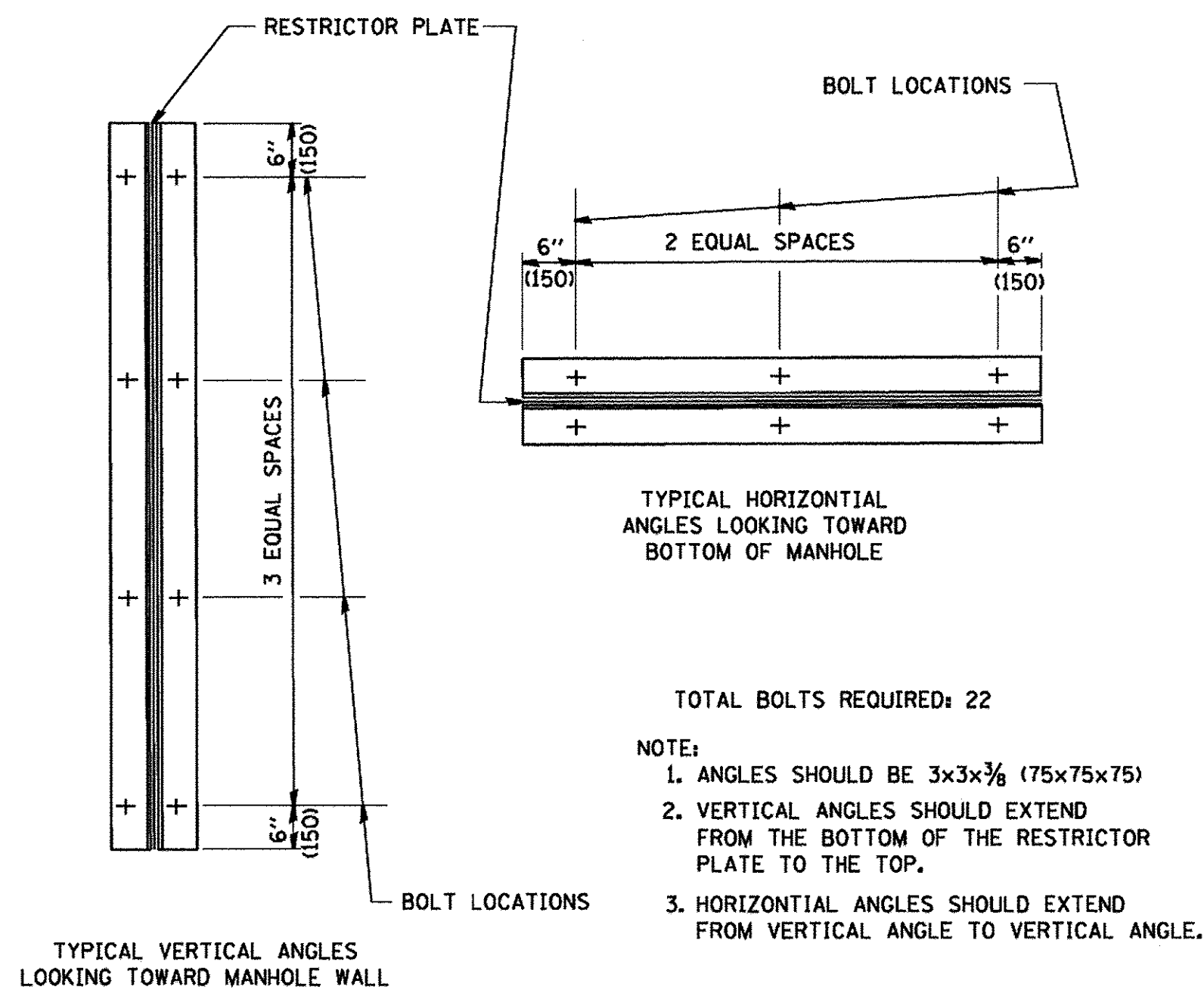
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-CH	COOK	140	112
BD0156-07 (BD-01)		CONTRACT NO. 61C76		
ILLINOIS FED. AID PROJECT				



- NOTES:
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
 2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
 3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



OUTLET CONTROL STRUCTURE AT	RIM ELEV. (FT)	ELEVATION OF TOP OF PLATE (FT)	RESTRICTOR INVERT (FT)	INSIDE RESTRICTOR DIAMETER (INCH)	RESTRICTOR TYPE
152 STA. 15+68, 9.50 LT	623.16	616.86	613.86	6.0	3
153 STA. 113+18, 36.9' LT	623.17	619.20	616.95	8.0	3
154 STA. 119+85, 25.70' RT	622.88	615.44	613.00	12.0	3



RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

STEEL ANGLE BOLTING DETAILS

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANHOLE WITH
RESTRICTOR PLATE

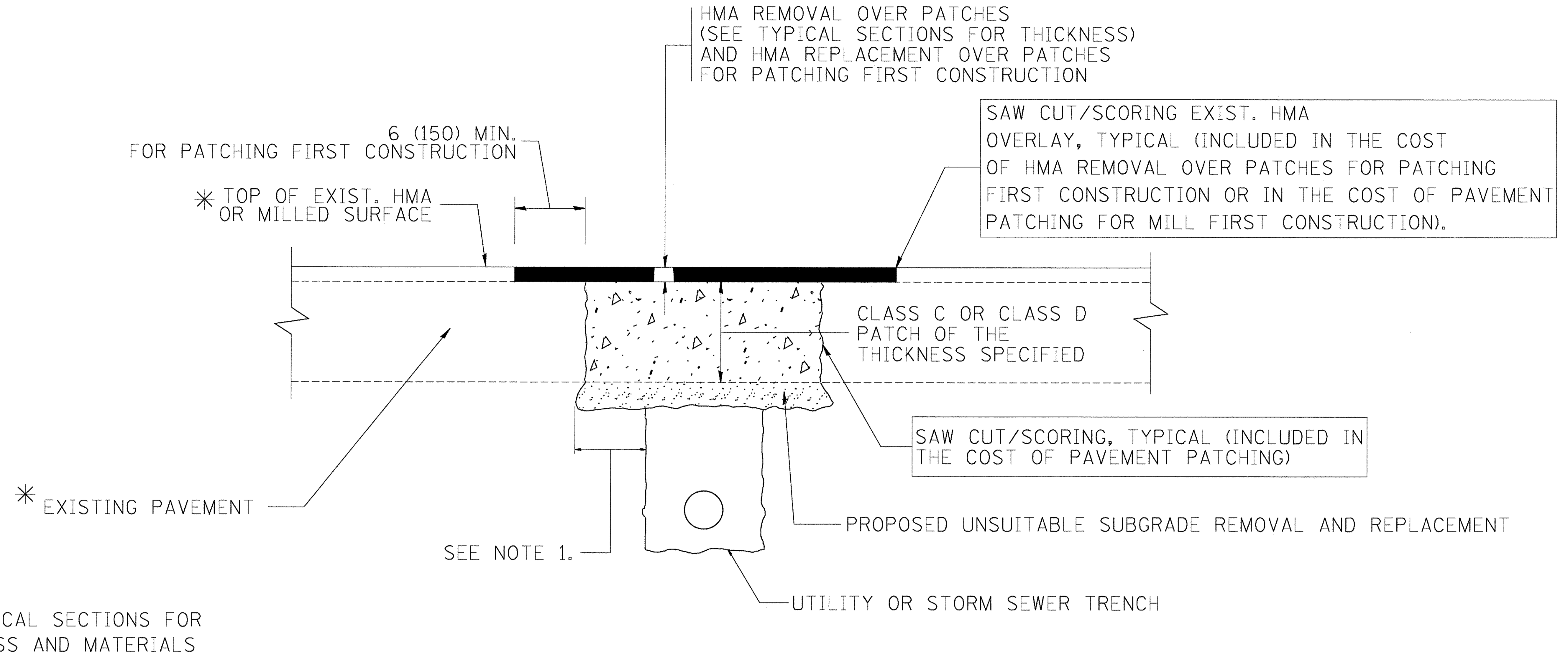
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BD600-04 (BD-12)		CONTRACT NO. 61C76		
ILLINOIS FED. AID PROJECT				

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

AECOM
303 East Wacker Drive, Suite 1400, Chicago, IL 60601
T 1-312-373-7700 F 1-312-373-8800

USER NAME = andy.becker	DESIGNED -	REVISED - R. SHAH 10-25-94
PLOT SCALE = 50.0001' / 1in.	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 12/12/2016	CHECKED -	REVISED - M. GOMEZ 01-08-01
	DATE = 7/28/2016	REVISED -

FILE NAME = P:\60444110\9802_Norfolk_SIBI_CDD\20-SHEETS\CH12-0126-bd-12-D1-Detail.dgn



* 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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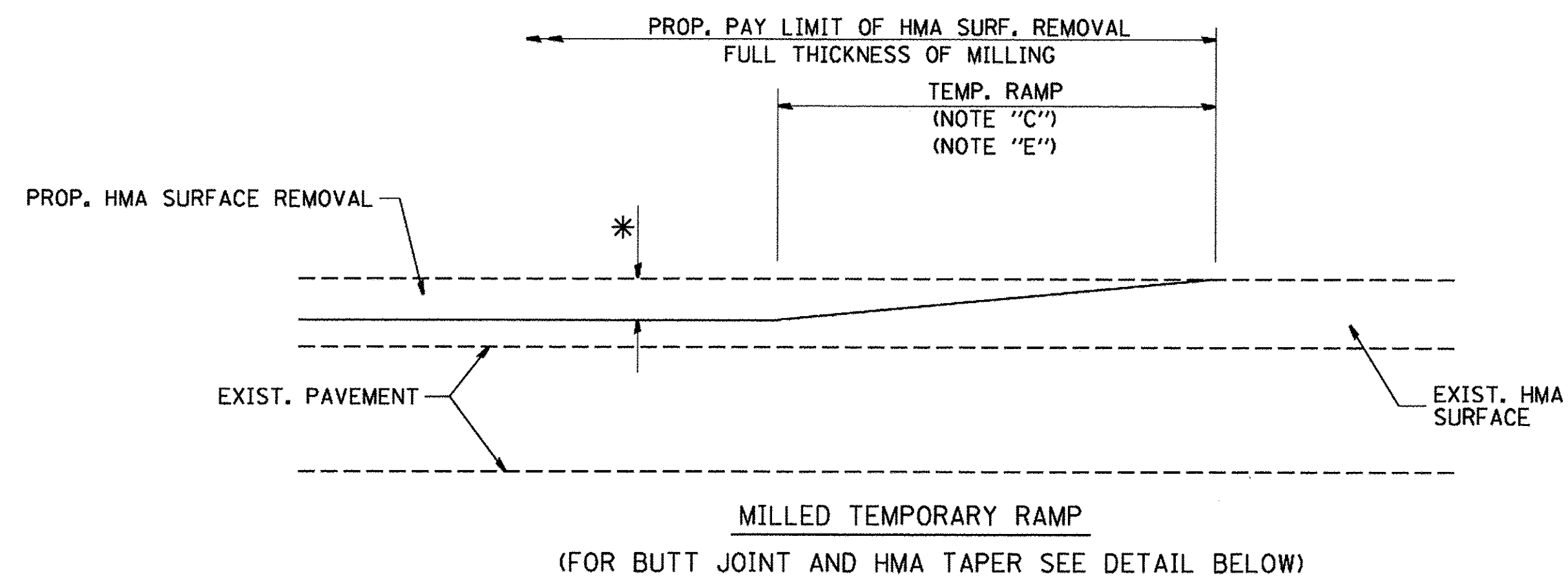
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PLOT SCALE = 50.0001' / 1in.	DRAWN -	REVISED - R. BORO 01-01-07
PLOT DATE = 12/12/2016	CHECKED -	REVISED - R. BORO 09-04-07
	DATE = 7/28/2016	REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

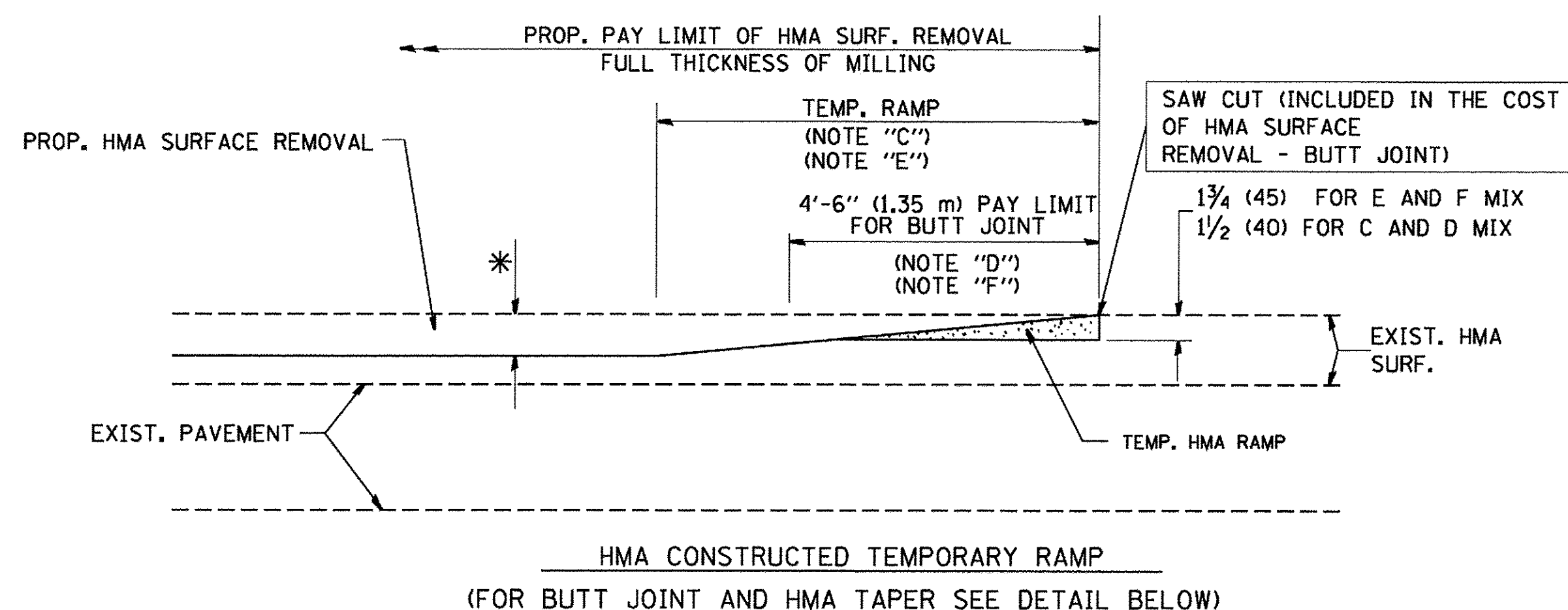
**PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-CH	COOK	140	114
BD400-04 (BD-22)		CONTRACT NO. 61C76		
ILLINOIS FED. AID PROJECT				

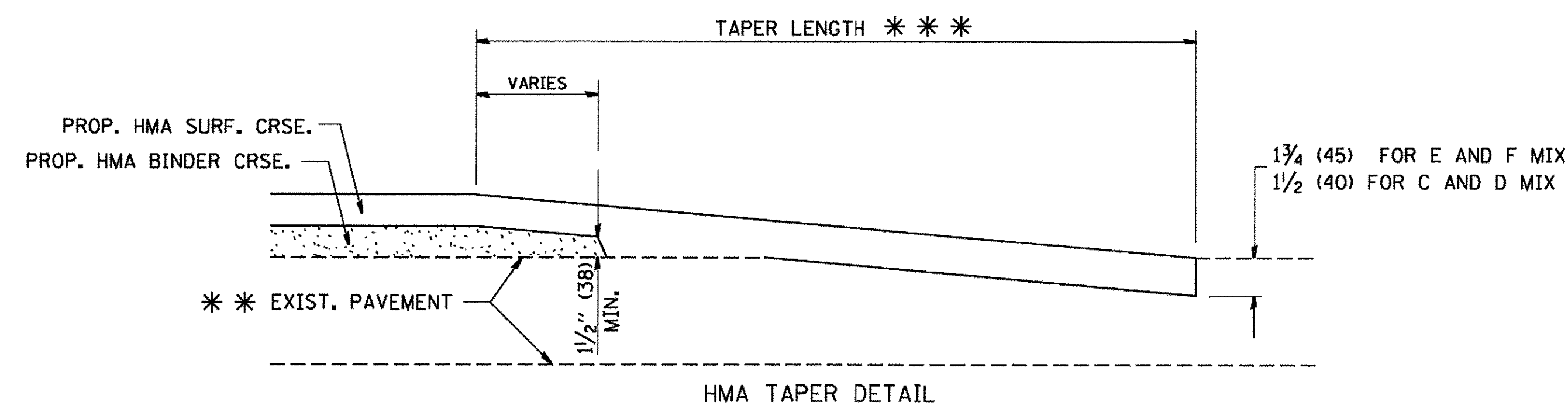
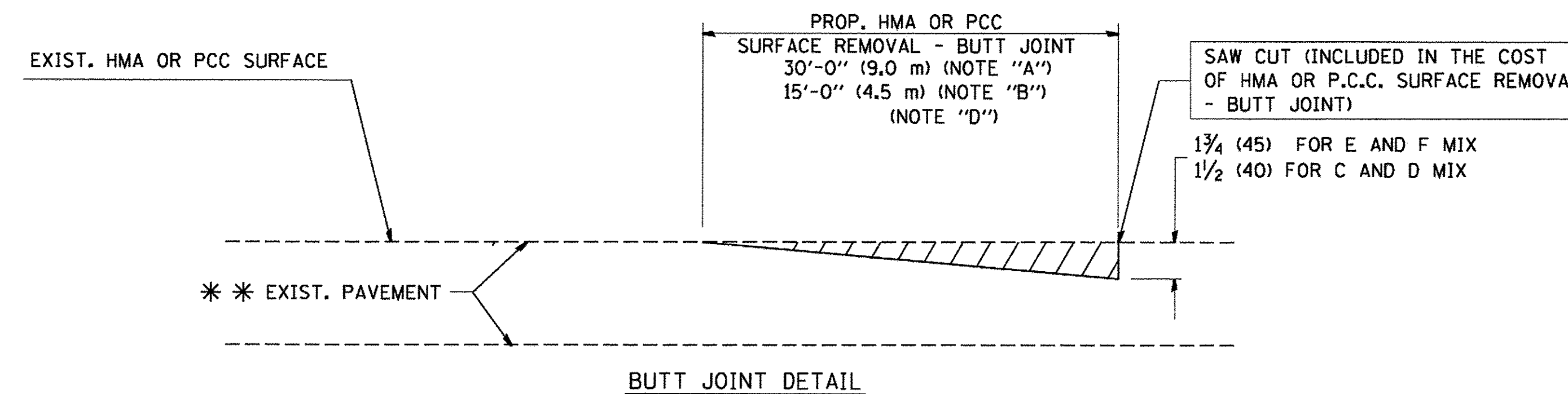


OPTION 1



OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

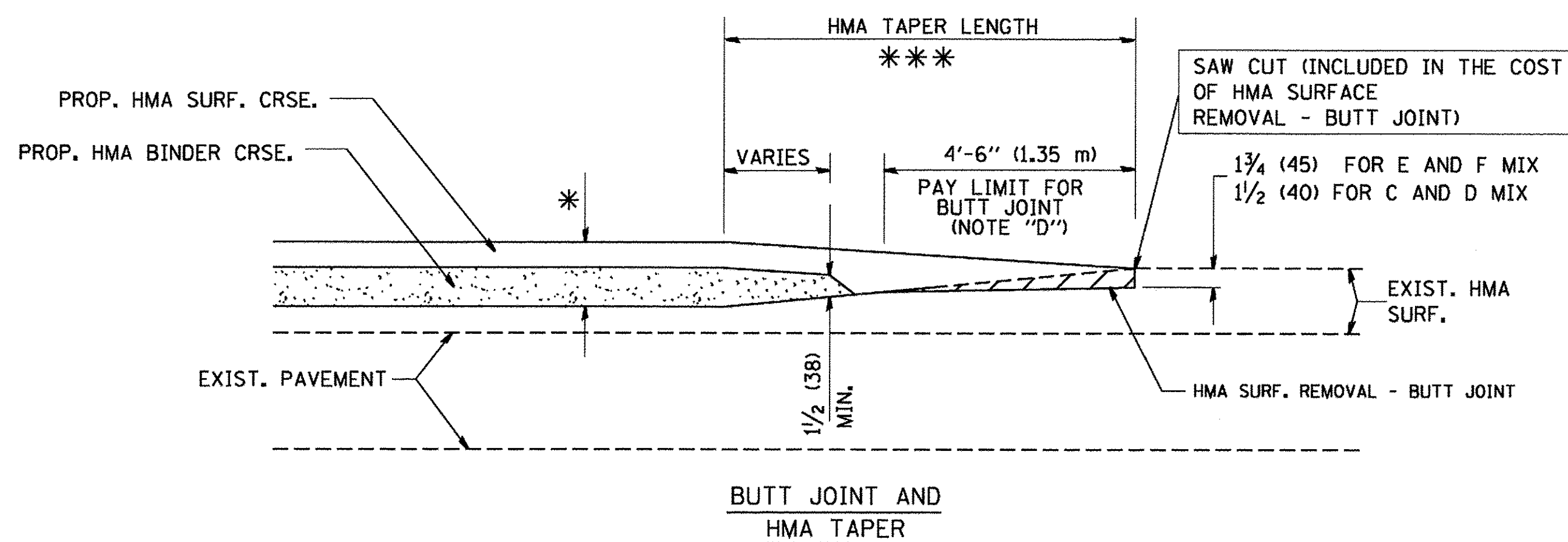
NOTES

- 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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

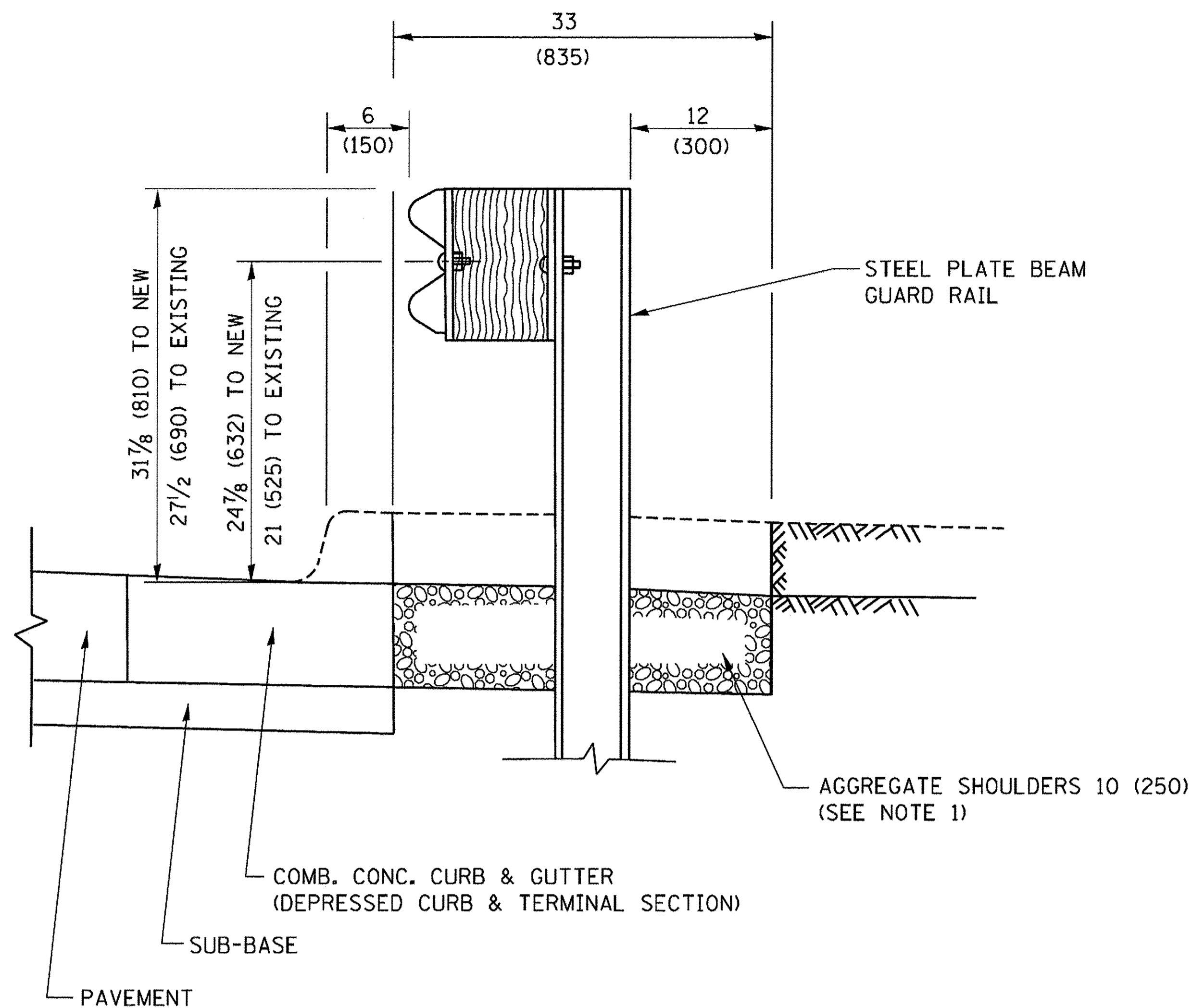
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-CH	COOK	140	115
BD400-05 (BD-32)		CONTRACT NO. 61C76		
ILLINOIS FED. AID PROJECT				

AECOM
303 East Wacker Drive, Suite 1400, Chicago, IL 60601
T 1-312-375-7700 F 1-312-375-8800

USER NAME = andy.becker	DESIGNED -	REVISED - R. SHAH 10-25-94
PLOT SCALE = 5/8"=1'-0"	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT DATE = 12/12/2016	CHECKED -	REVISED - M. GOMEZ 04-06-01
	DATE = 7/28/2016	REVISED - R. BORO 01-01-07

FILE NAME = P:\60444116\9800_kor-k\910_LCAD\20-SHEETS\CH12-0128-bd-32-01-Details.dgn

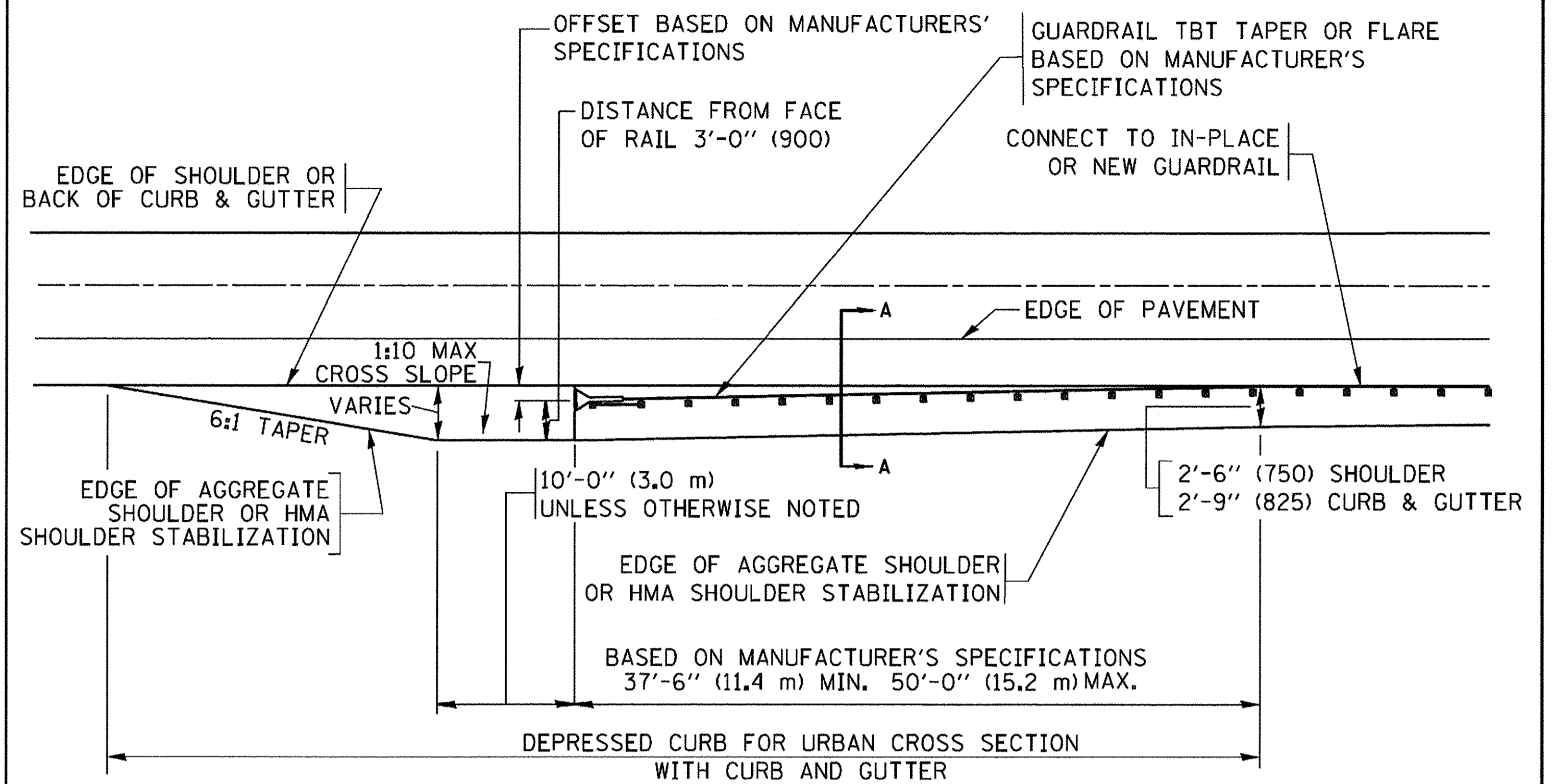


SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER**

[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



**DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME = P:\6044416\900_Wor-A\910_CAD\20-SHEETS\CH12-0128-bd-34-01-06.tex.dgn



USER NAME = andy.becker
DESIGNED -
DRAWN -
PLOT SCALE = 50.0001' / in.
PLOT DATE = 12/12/2016

DESIGNED -
DRAWN -
CHECKED -
DATE = 7/28/2016

REVISED - R. BORO 12-08-2008
REVISED - R. BORO 09-14-2009
REVISED - R. BORO 08-06-2012
REVISED - R. BORO 05-08-2015

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR DEPRESSED CURB & GUTTER AND
SHOULDER TREATMENT AT TBT TY.1 SPL.

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-CH	COOK	140	116
BD400-05 (BD-34)			CONTRACT NO. 61C76	
[ILLINOIS] FED. AID PROJECT				

GENERAL NOTES

ALTERNATE MATERIAL FOR THE WALLS MAY BE CONCRETE MASONRY UNITS, PRECAST REINFORCED CONCRETE SECTIONS OR CAST-IN-PLACE CONCRETE. THE CAST IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN MAY BE USED WHEN APPROVED BY THE ENGINEER.

CAST IRON STEPS SHALL BE GRAY IRON CONFORMING TO THE REQUIREMENTS OF ARTICLE 1006.14 OF THE STANDARD SPECIFICATIONS.

STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF THREE (3) INCHES. STEPS SHALL NOT BE EXTENDED ON THE OUTSIDE.

STEPS SHALL BE OMITTED FOR WORK IN COOK COUNTY WHEN THE DEPTH OF THE MANHOLE IS TEN (10') OR LESS.

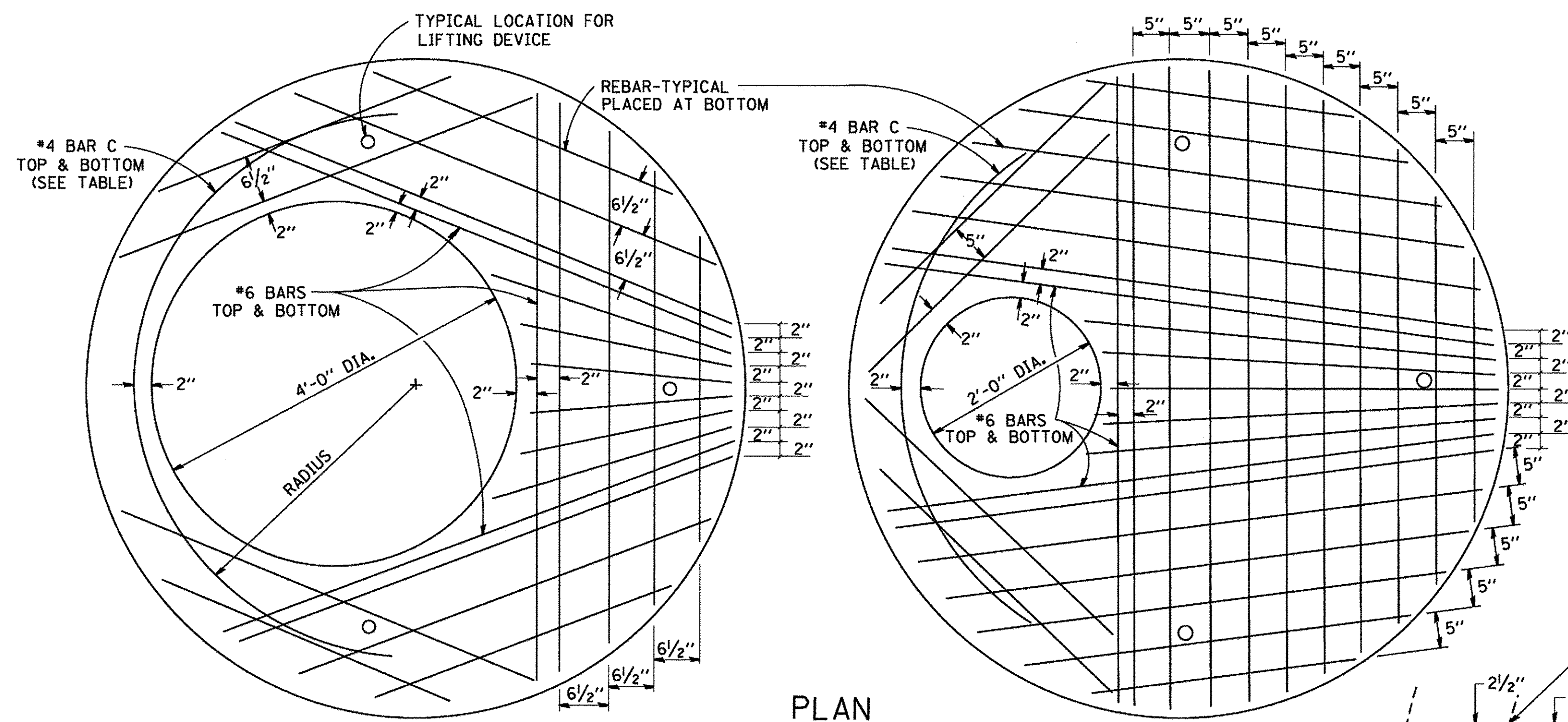
IN ADDITION TO THE REQUIREMENTS OF ARTICLE 612.13 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR MANHOLES, TYPE A, 7'-DIAMETER SHALL INCLUDE THE SAND CUSHION WHEN REQUIRED, FURNISHING AND INSTALLING STEPS WHEN REQUIRED, FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL, AND FURNISHING AND INSTALLING FLAT SLAB TOP.

PRECAST FLAT SLAB TOP SHALL CONFORM TO ARTICLES 505.01 THRU 505.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS. REINFORCEMENT BARS AND WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.10. ONLY GRADE 60 REINFORCEMENT BARS WILL BE PERMITTED.

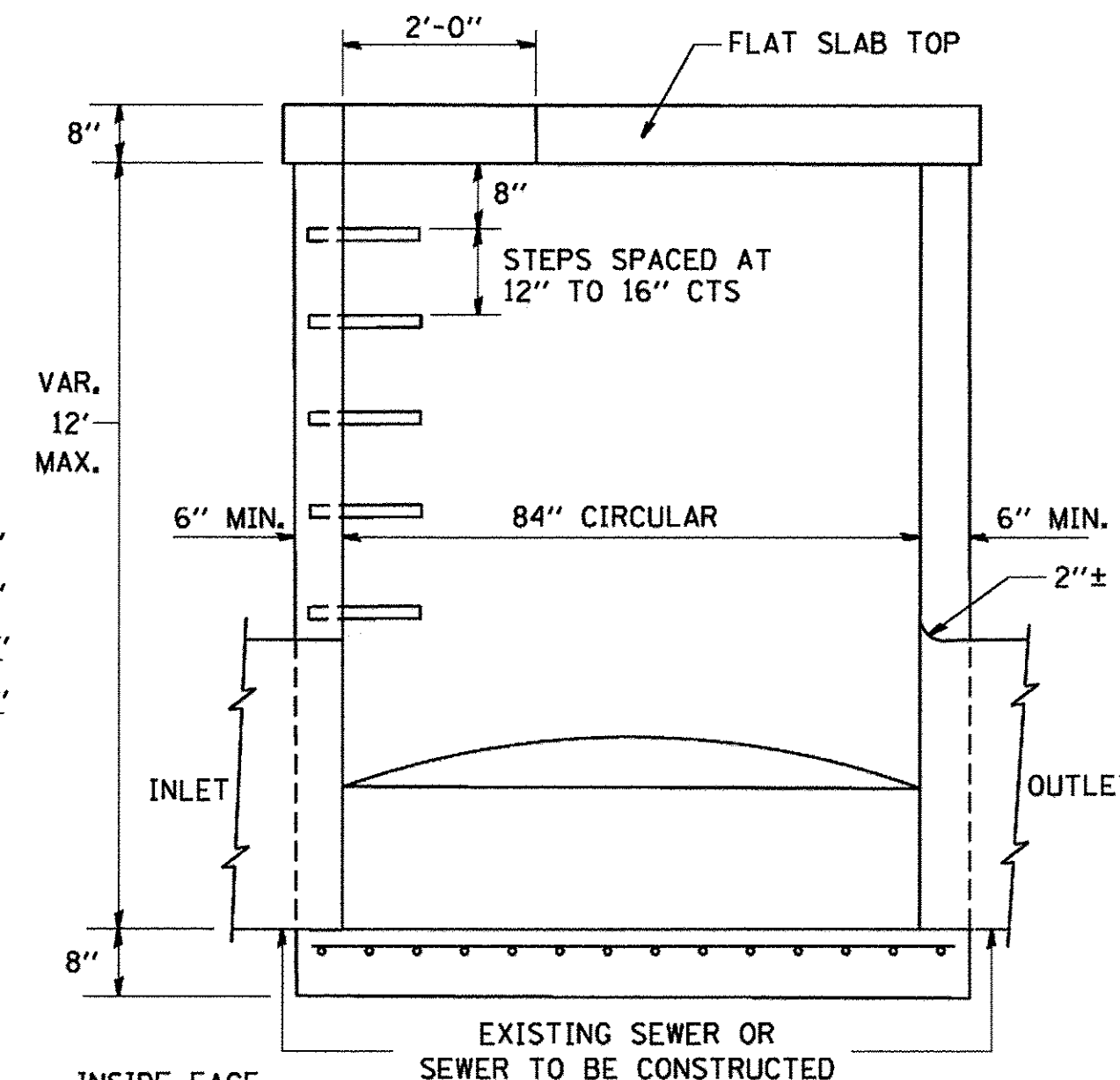
BOTTOM SLAB SHALL BE REINFORCED BY EITHER REINFORCEMENT BARS OR WELDED WIRE FABRIC. THE MINIMUM REINFORCEMENT SHALL BE 0.46 SQUARE INCH PER LINEAR FOOT IN BOTH DIRECTIONS.

JOINT CONFIGURATION AND DIMENSIONS OF FLAT SLAB TOP SHALL MATCH AND FIT THE RISER JOINT DETAIL.

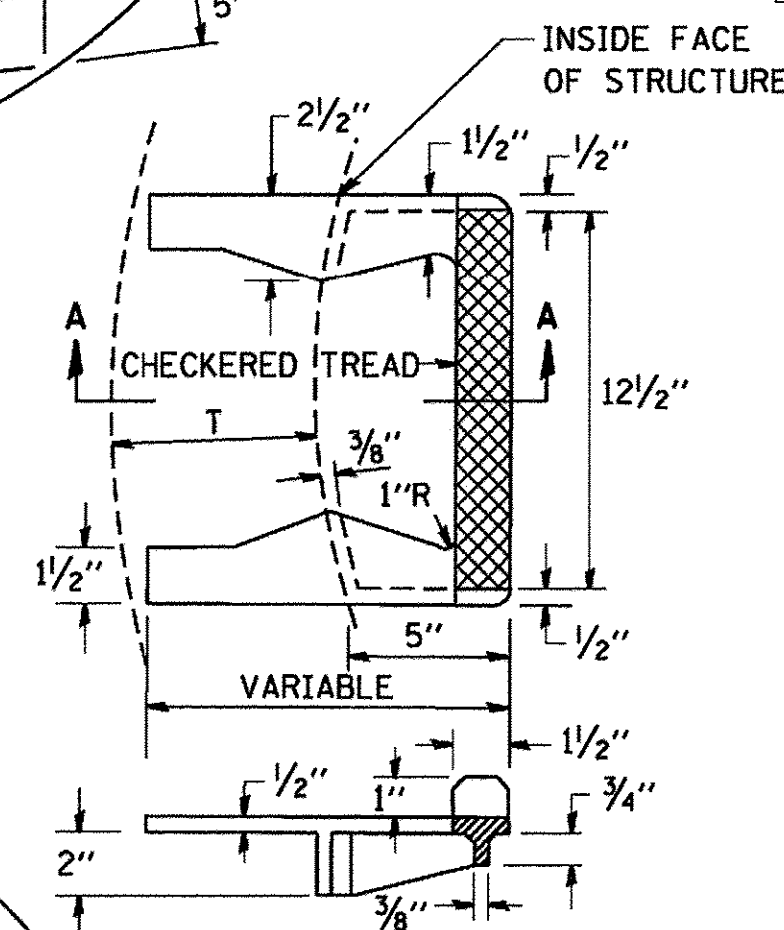
LIFTING DEVICES SHALL BE APPROVED BY THE ENGINEER.



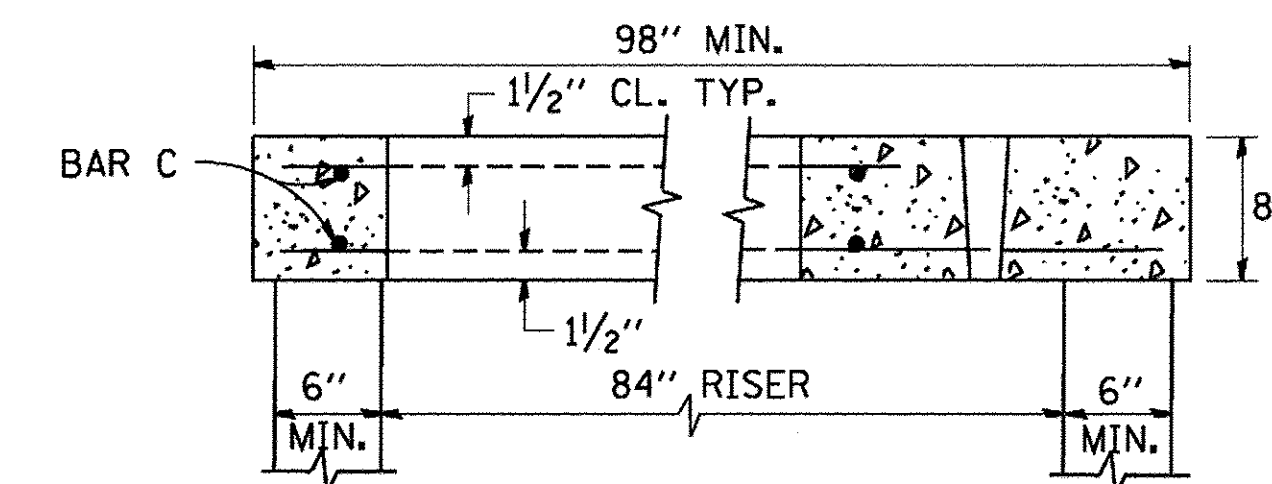
PLAN
SHOWING REBAR REINFORCEMENT



ELEVATION

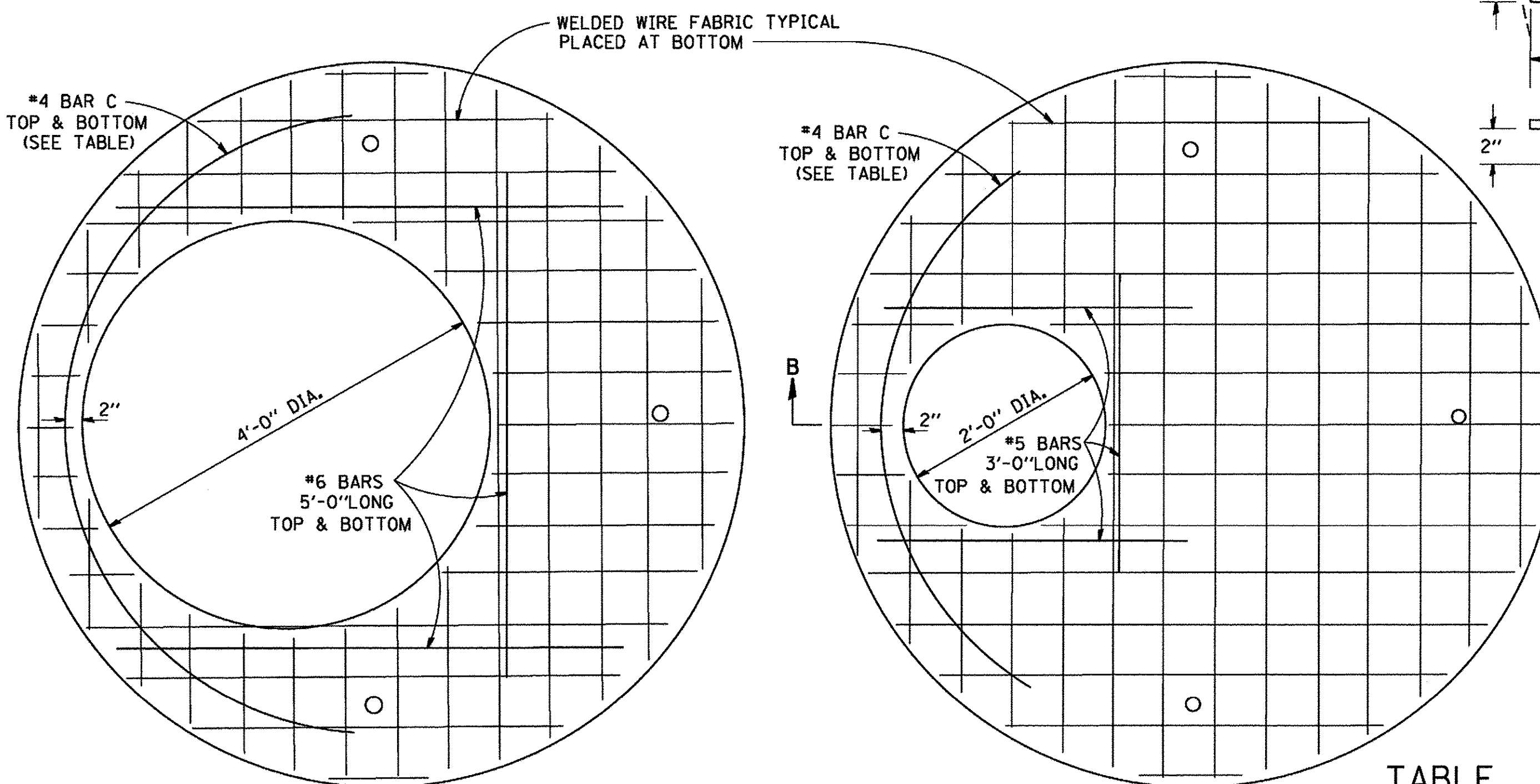


SEC. A-A
CAST IRON STEPS



SECTION B-B

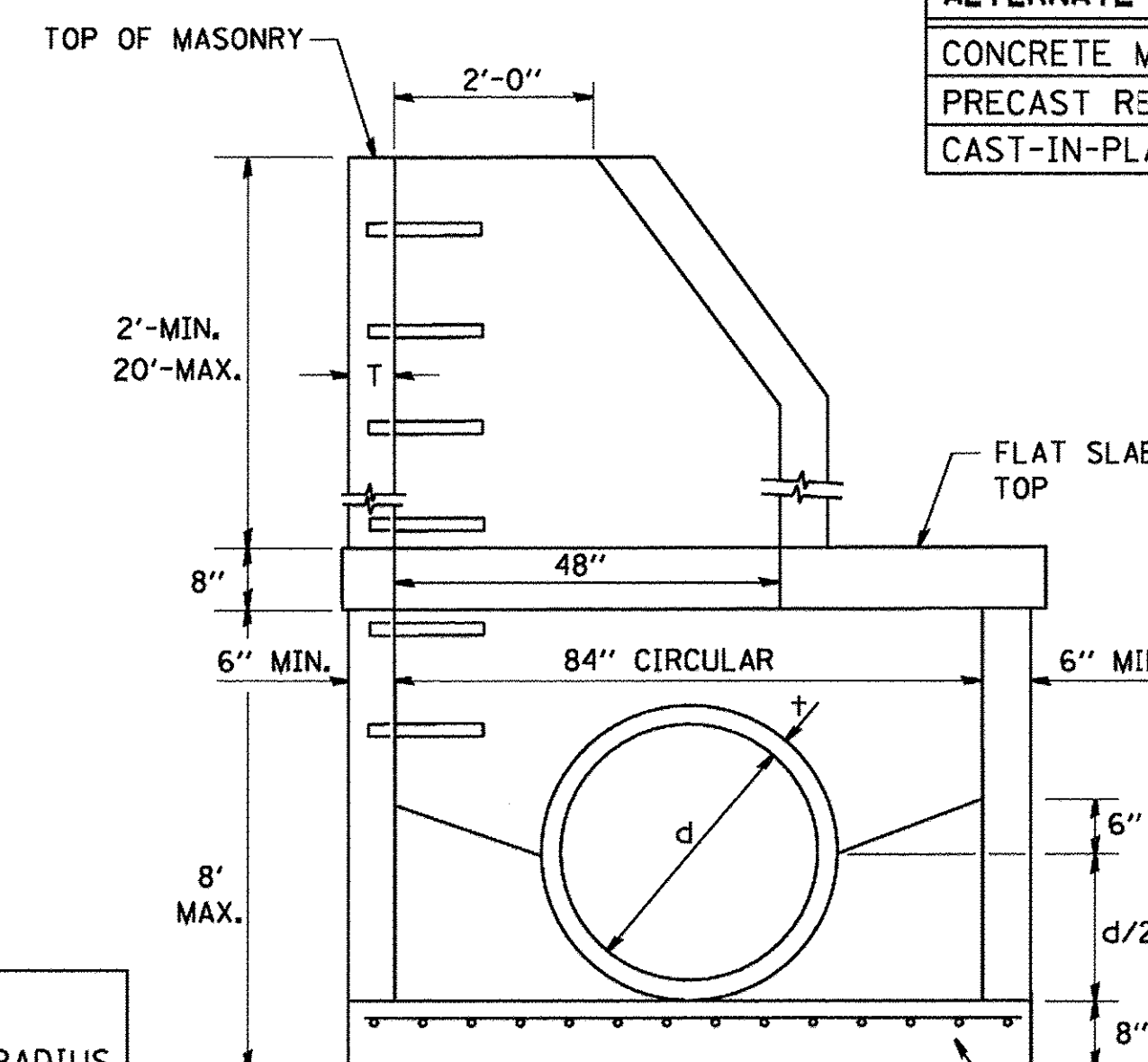
ALTERNATE MATERIALS FOR RISERS	T (MIN.)
CONCRETE MASONRY UNITS	5"
PRECAST REINFORCED CONCRETE SECTIONS	4"
CAST-IN-PLACE CONCRETE	6"



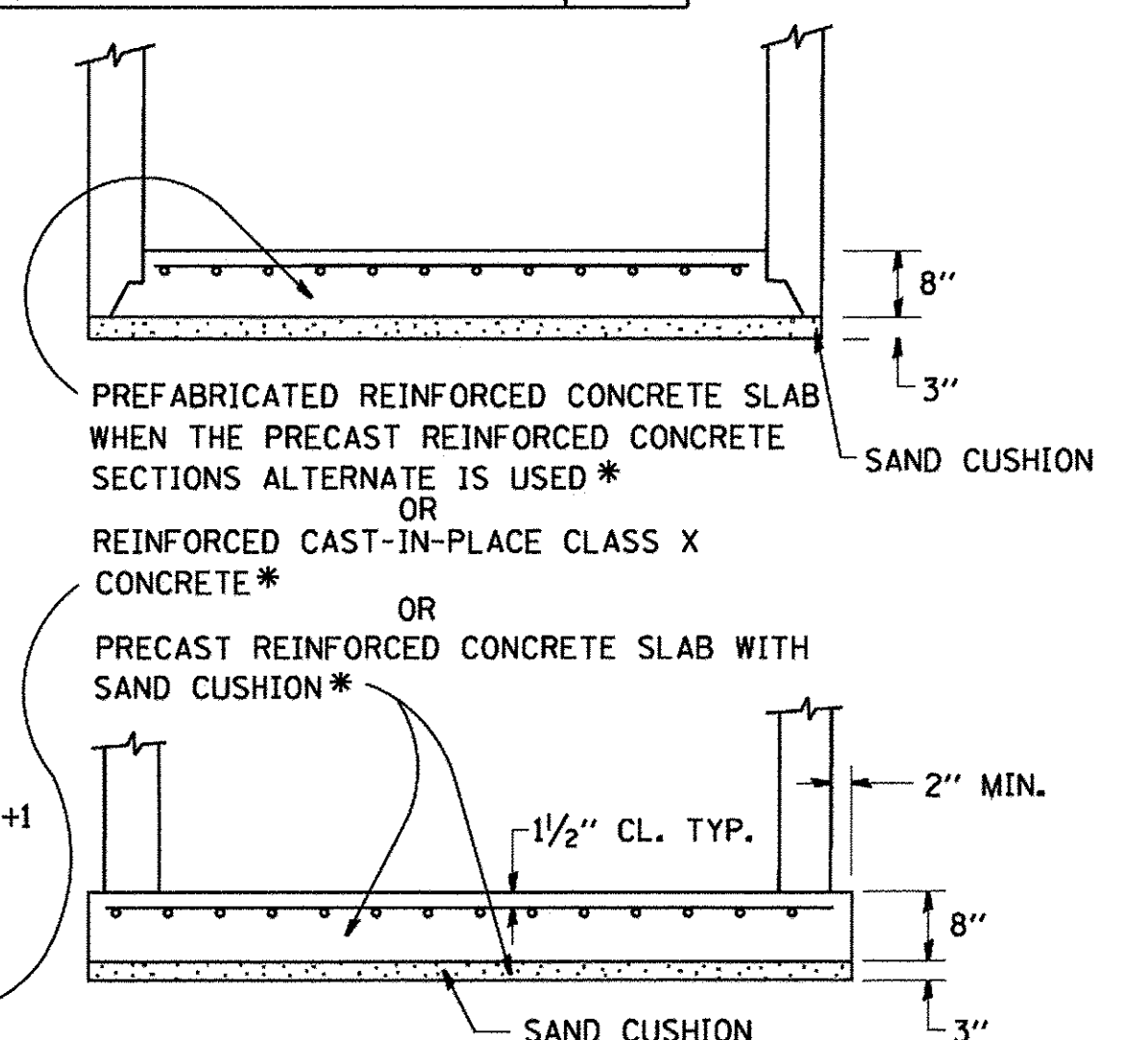
PLAN
SHOWING WELDED WIRE FABRIC REINFORCEMENT

NOTE: THIS STRUCTURE SHOULD BE USED WITH PIPES SIZE 54" DIA. OR SMALLER.

DIAMETER OF OPENING	REINFORCEMENT "AS" WWF OR BAR SIZE EACH DIRECTION	BAR C			
		SIZE	LENGTH	RADIUS	
2'-0"	1.06 SQ.IN./LIN.FT.	#6	#4	6'-0"	38"
4'-0"	0.82 SQ.IN./LIN.FT.	#6	#4	9'-0"	38"



ELEVATION



PREFABRICATED REINFORCED CONCRETE SLAB WHEN THE PRECAST REINFORCED CONCRETE SECTIONS ALTERNATE IS USED *
OR
REINFORCED CAST-IN-PLACE CLASS X CONCRETE *
OR
PRECAST REINFORCED CONCRETE SLAB WITH SAND CUSHION *
SAND CUSHION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANHOLE TYPE A
7 FOOT DIAMETER

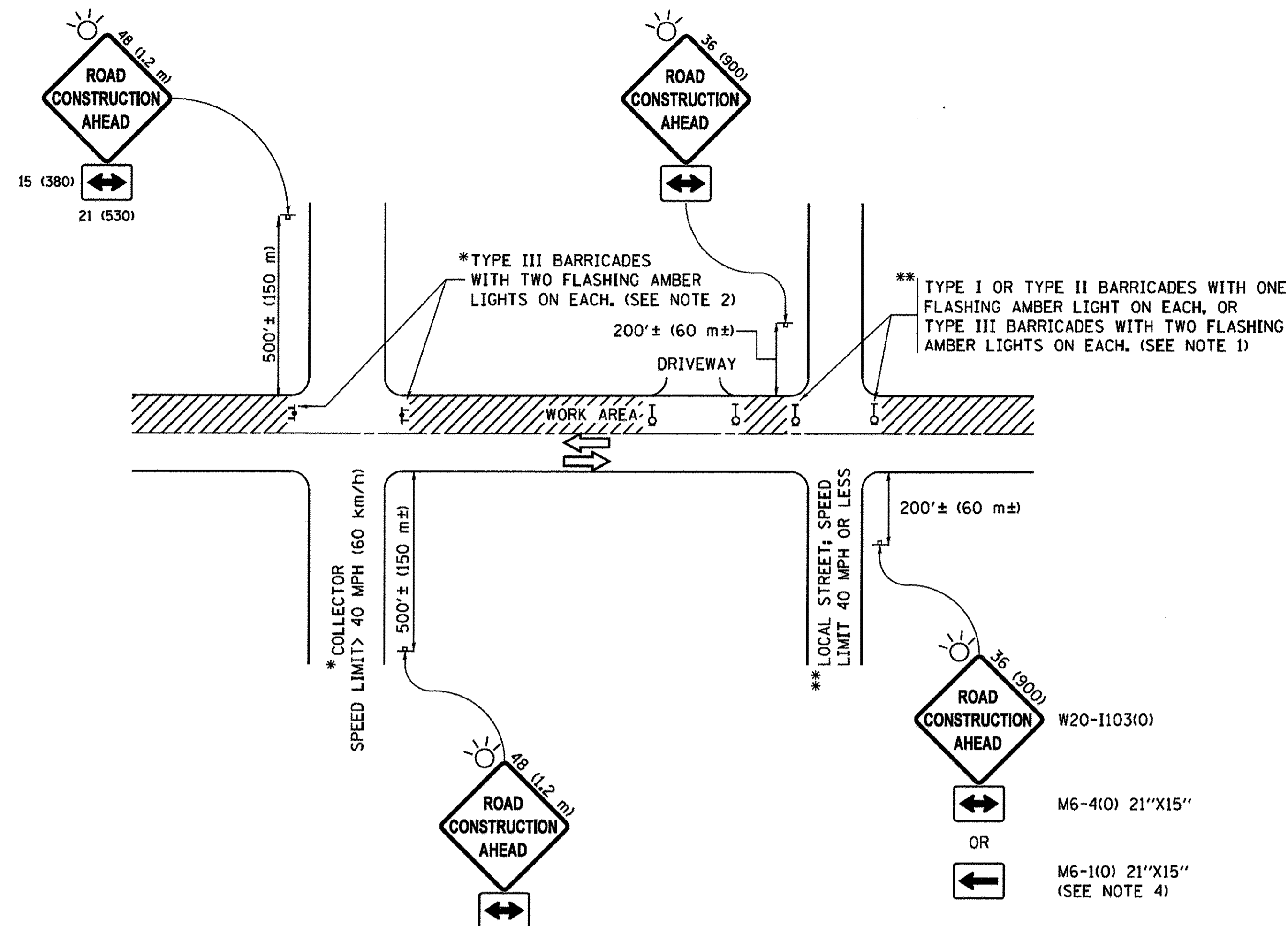
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-CH	COOK	140	117
BD600-11 (BD-37)		CONTRACT NO. 61C76		
ILLINOIS FED. AID PROJECT				

FILE NAME = P:\6044116\900_Vork\910_CAD\20-SHEETS\CH12-0128-bd-37-01-Detail.dgn

AECOM
303 East Wacker Drive, Suite 1400, Chicago, IL 60601
T 312-373-7700 F 312-373-6800

USER NAME = andy.becker	DESIGNED -	REVISED -
PLOT SCALE = 50.0001' / in.	DRAWN -	REVISED -
PLOT DATE = 12/12/2016	CHECKED -	REVISED -
	DATE = 7/28/2016	REVISED -



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.



303 East Wacker Drive, Suite 1400, Chicago, IL 60601
T 1-312-373-7700 F 1-312-373-8800

USER NAME = andy.becker	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50.0001' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 12/12/2016	DATE = 7/28/2016	REVISED - A. SCHUETZE 09-15-16

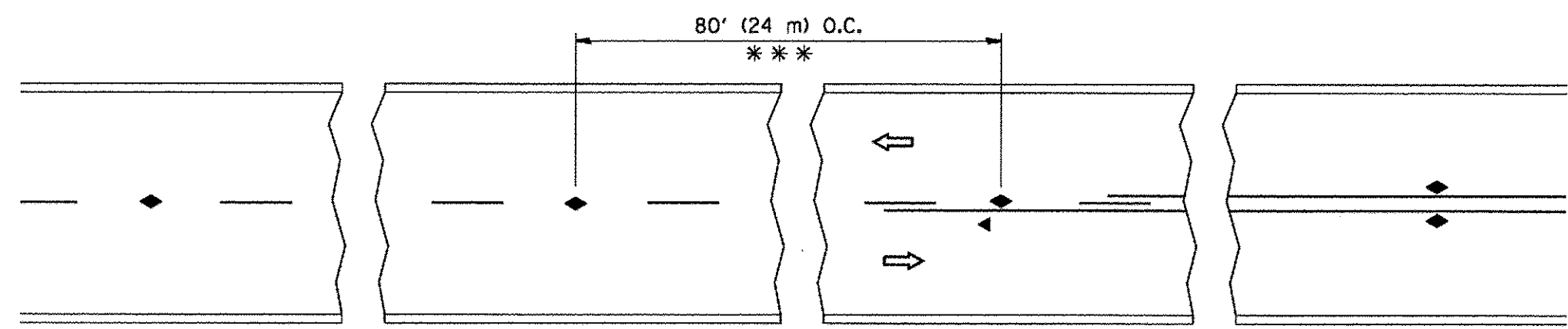
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

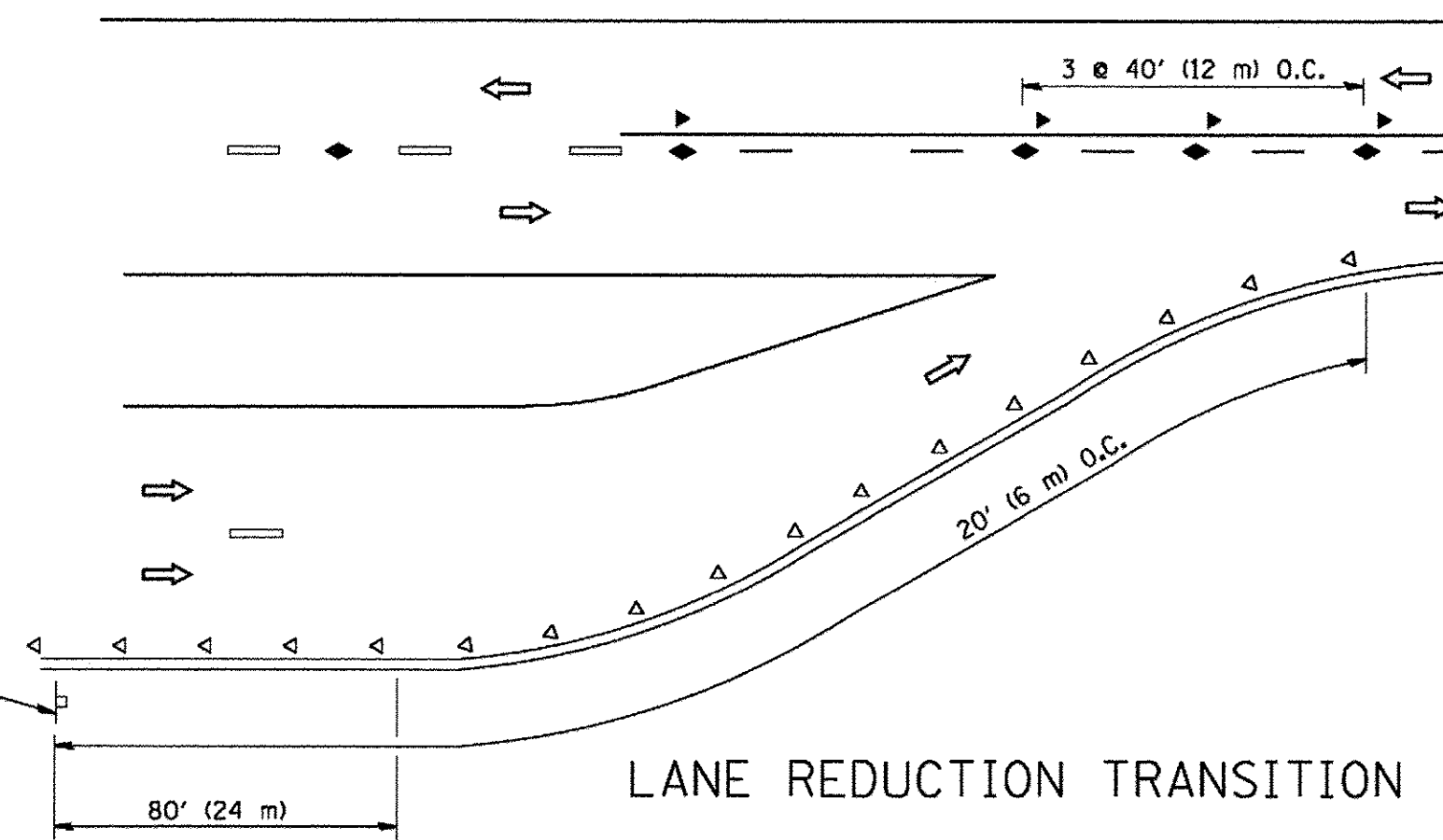
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10		CONTRACT NO. 61C76		
ILLINOIS FED. AID PROJECT				

FILE NAME = P:\6044118\9100_VorA\9100_CAD\20-SHEETS\TC-10-01-Detail.dgn

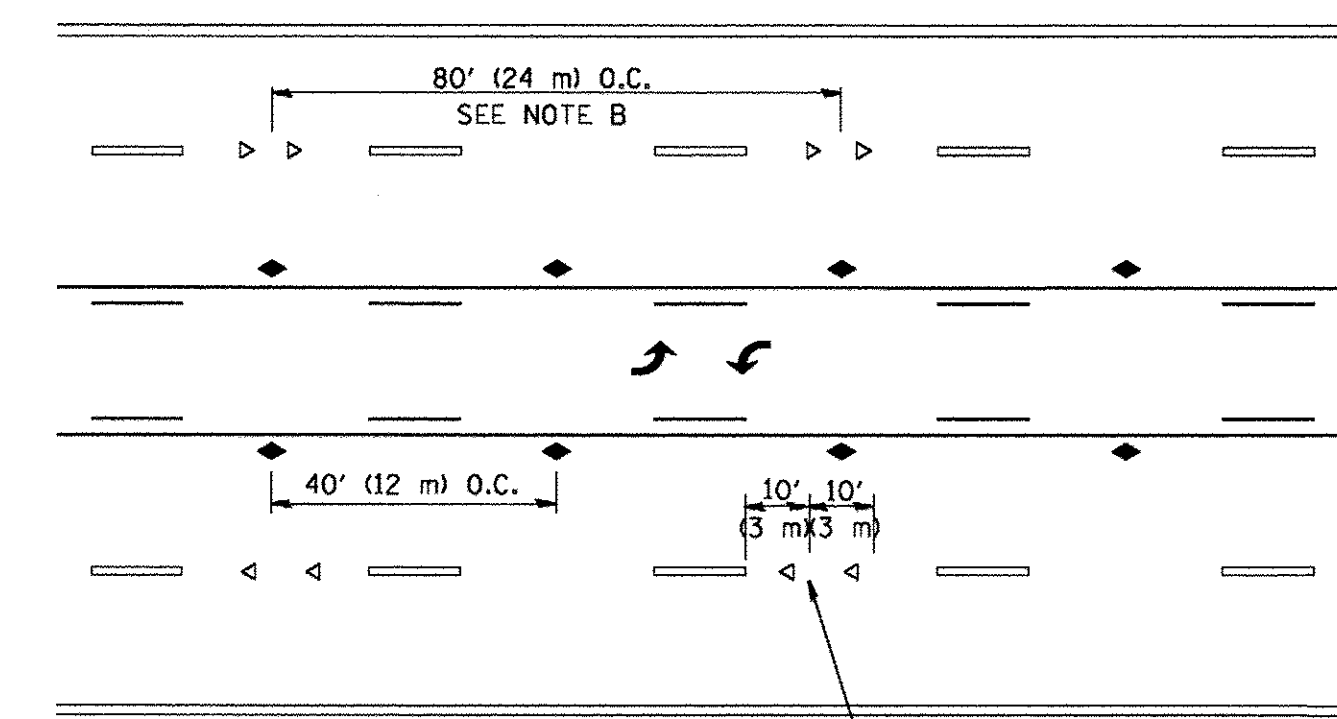


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

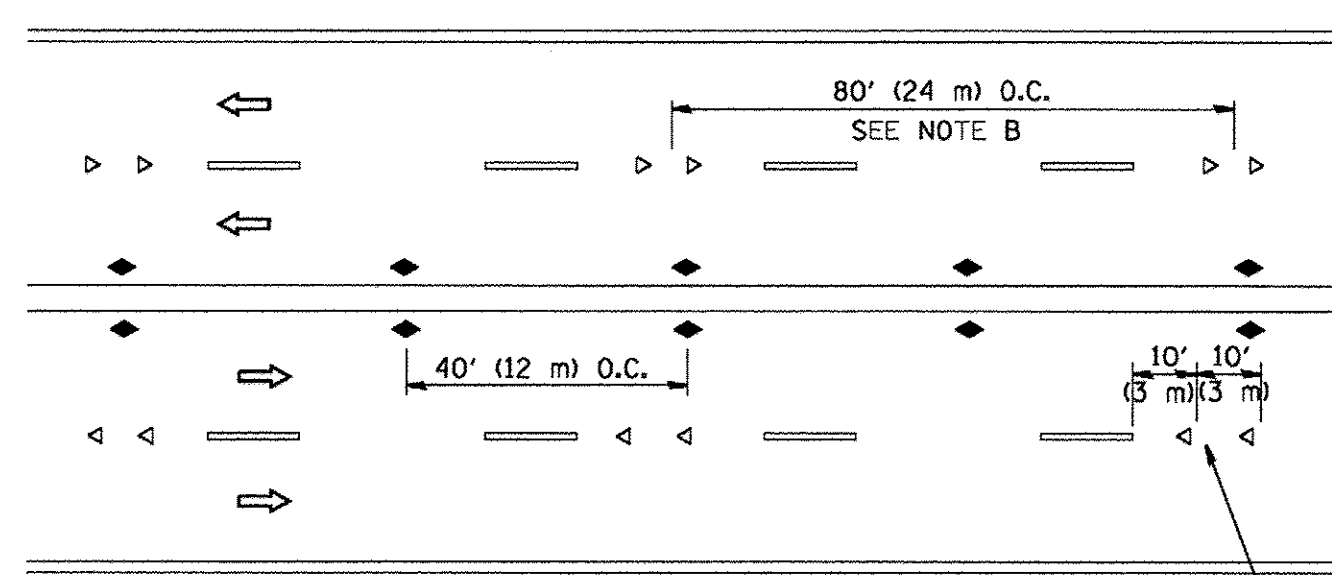
TWO-LANE/TWO-WAY



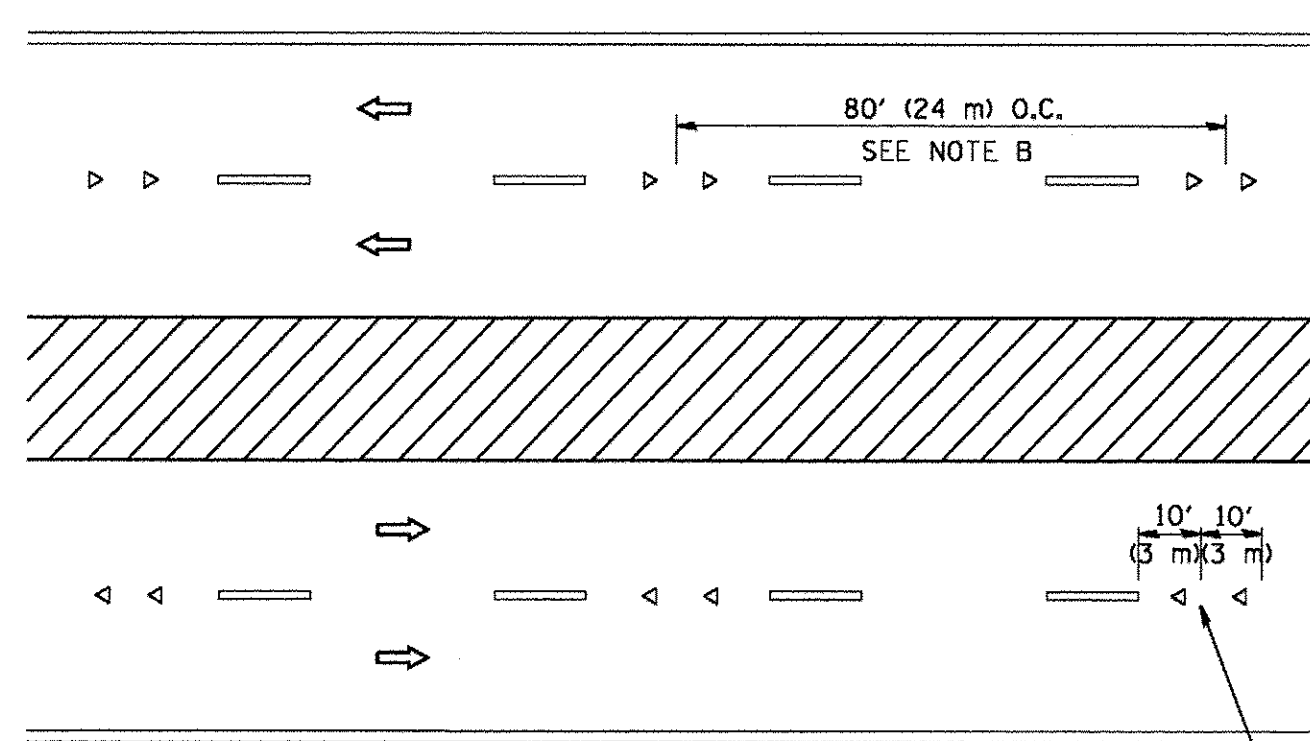
LANE REDUCTION TRANSITION



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

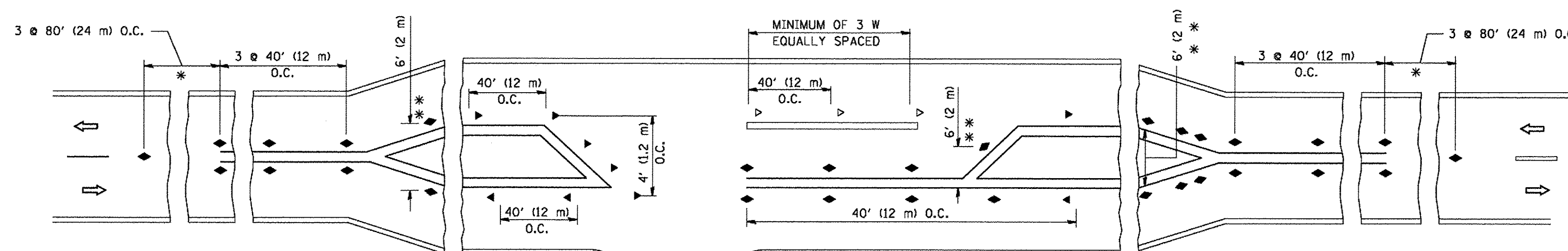
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

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 = F:\60444105\9802\Work\A\910_CAD\20-SHEETS\TC-11-DI-Detailed.dgn



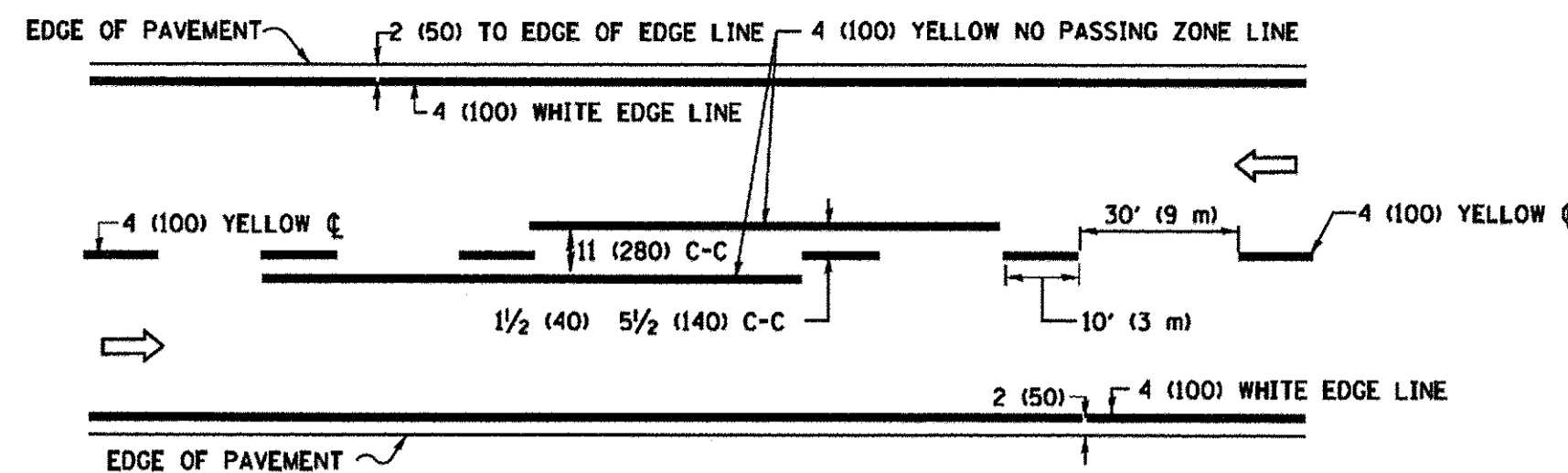
USER NAME = andy.becker	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
PLOT SCALE = 50,000' / 1" =	DRAWN -	REVISED - T. RAMMACHER 03-12-99
PLOT DATE = 12/12/2016	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	DATE = 7/28/2016	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

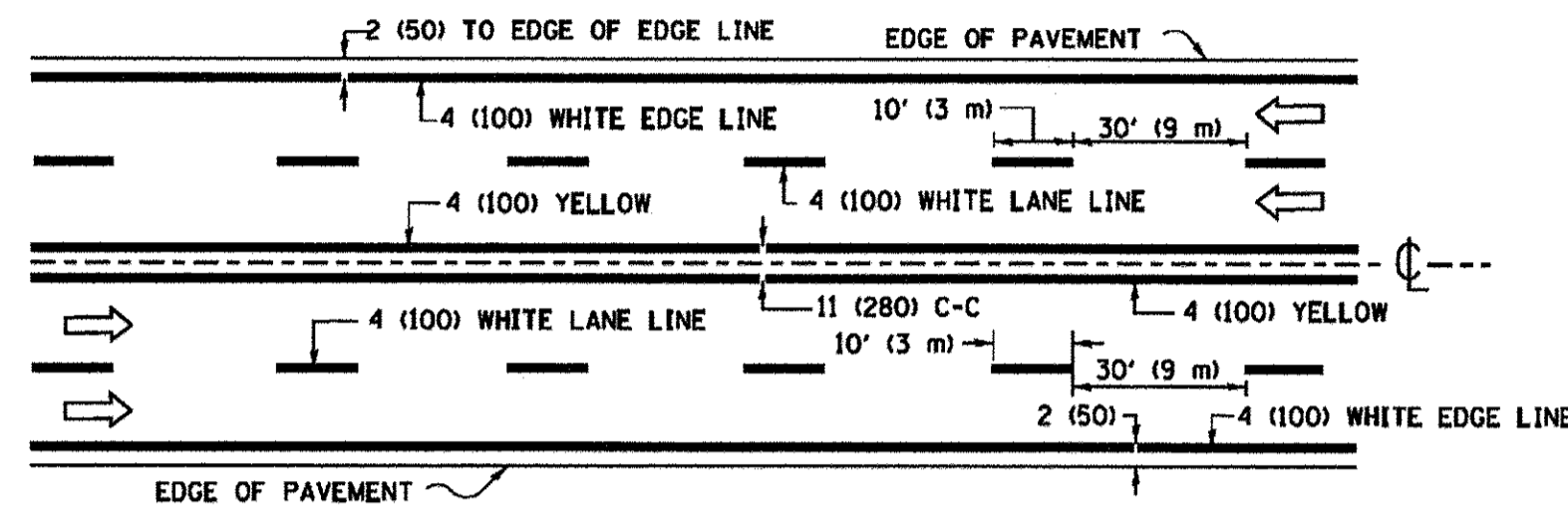
TYPICAL APPLICATIONS RAISED
 REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

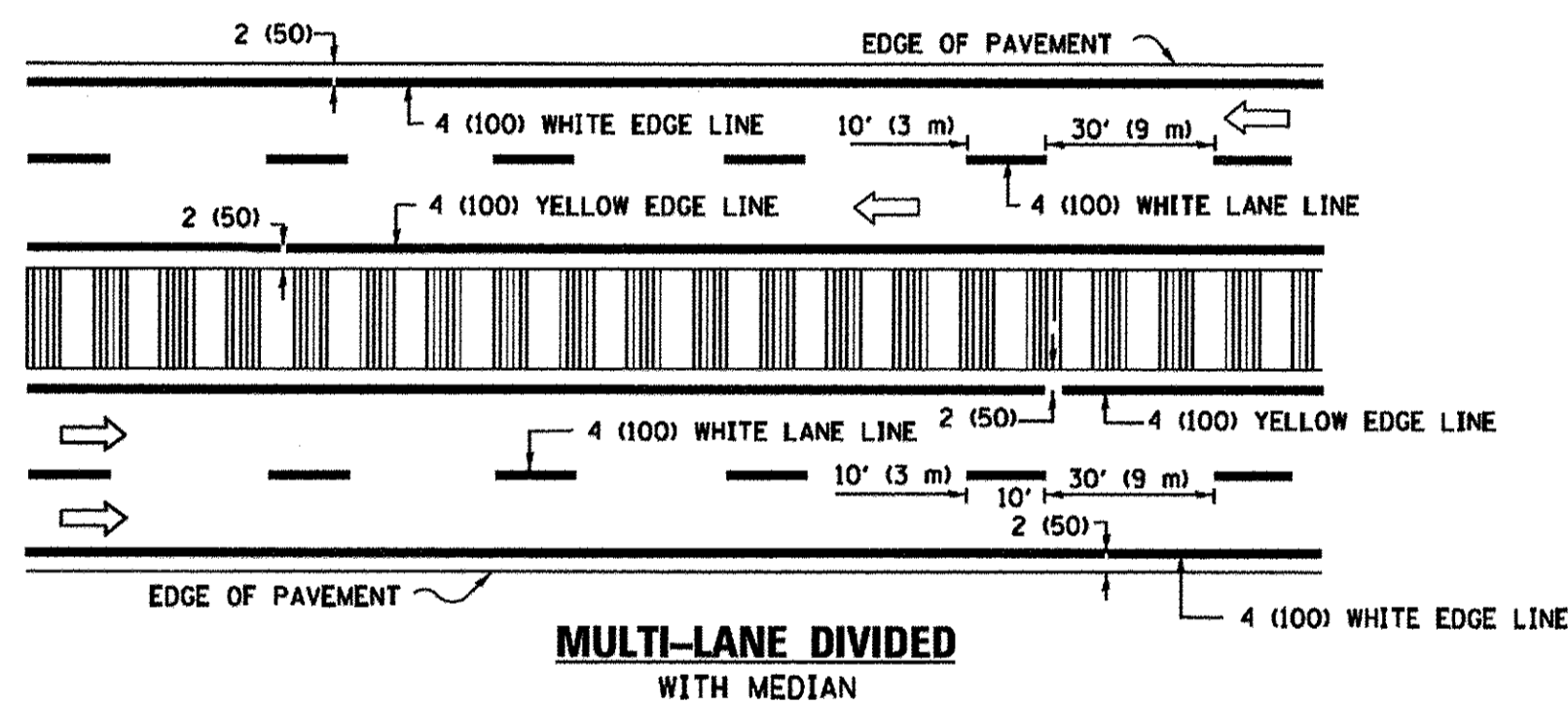
F.A.P. RTE. 350	SECTION 12-00194-00-CH	COUNTY COOK	TOTAL SHEETS 140	SHEET NO. 119
TC-11		CONTRACT NO. 61C76		
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

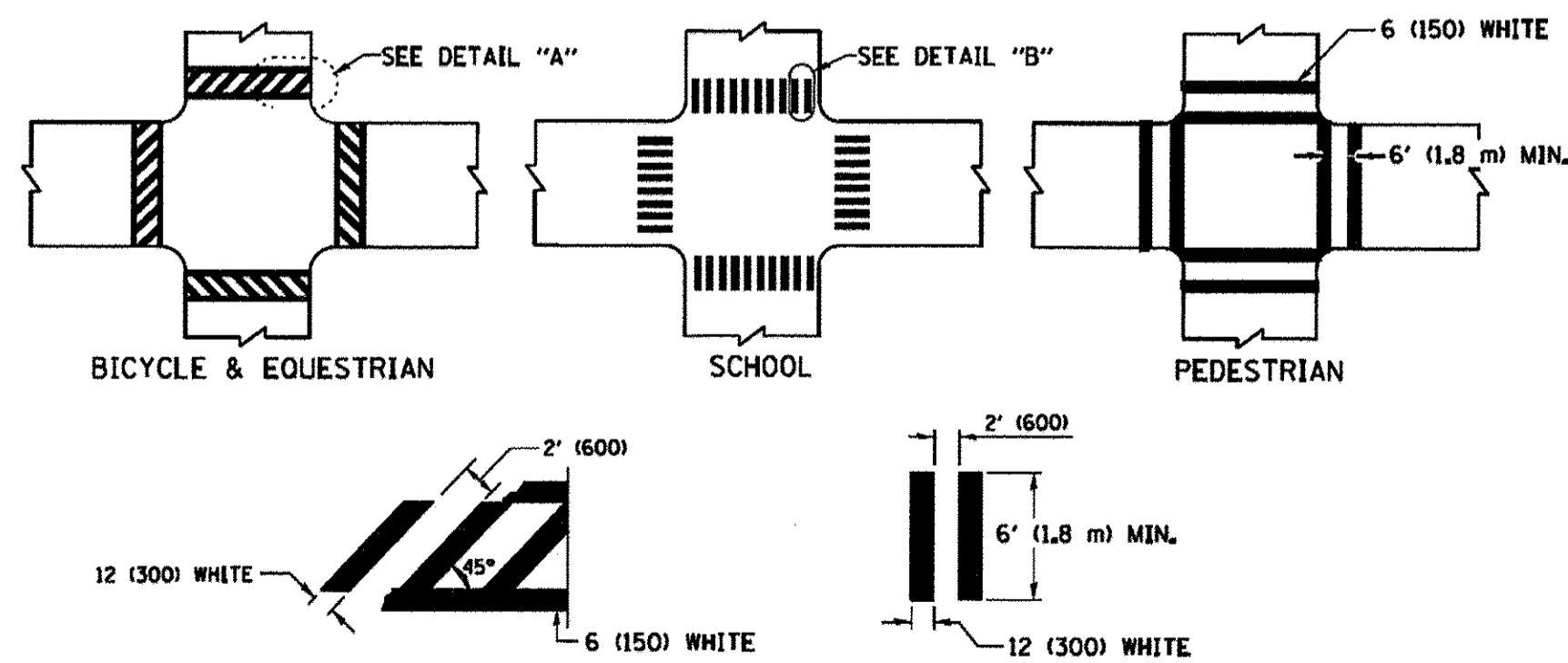


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

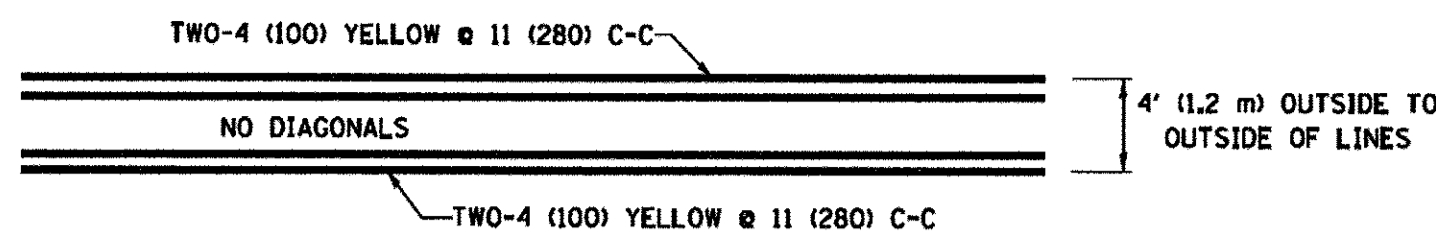


DETAIL "A"

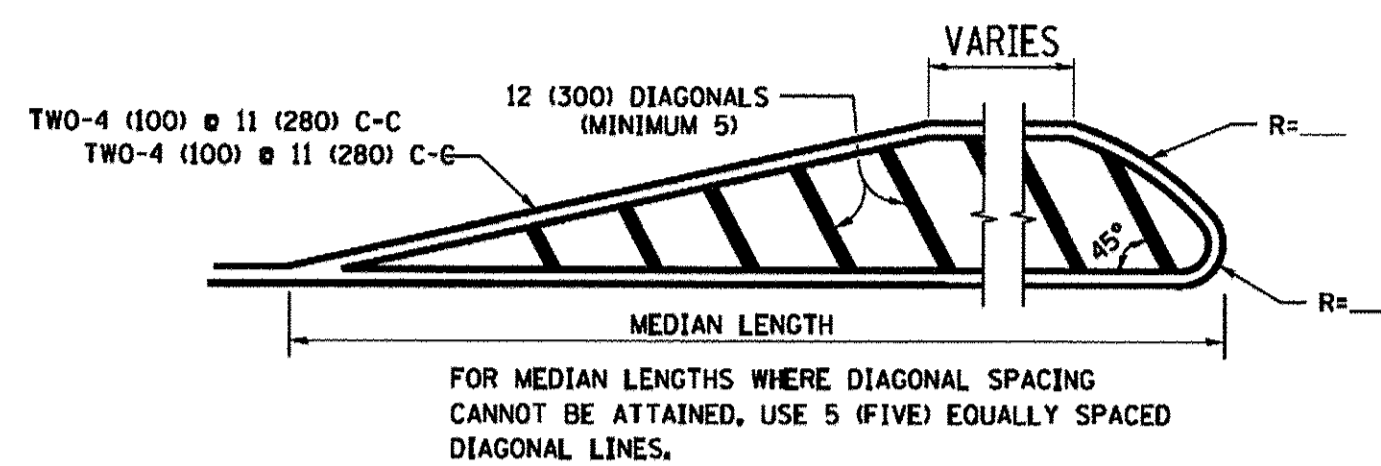
DETAIL "B"

TYPICAL CROSSWALK MARKING

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

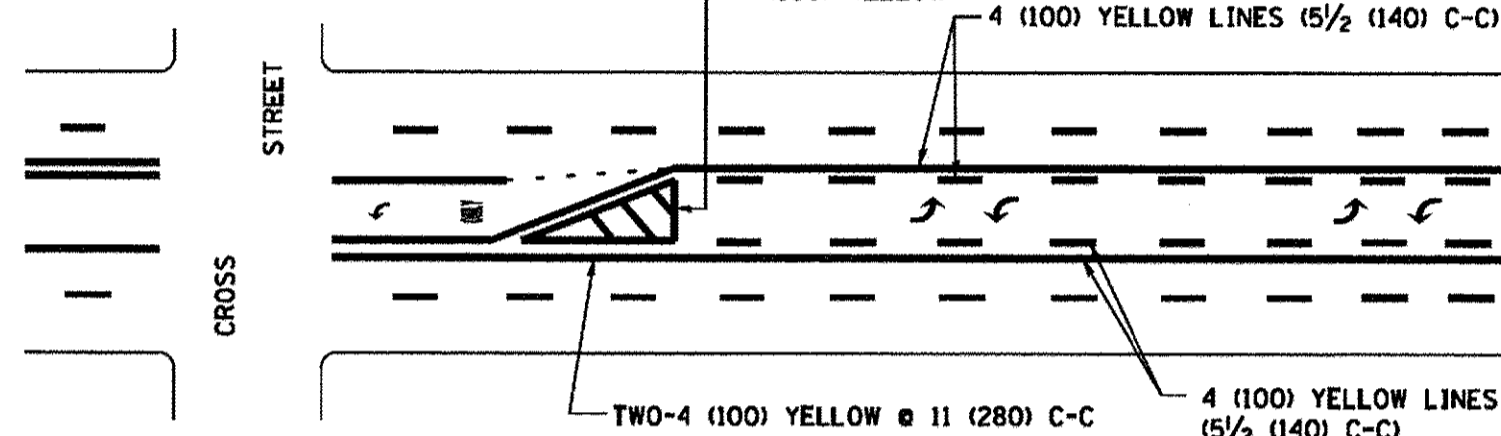


4' (1.2 m) WIDE MEDIANS ONLY



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))

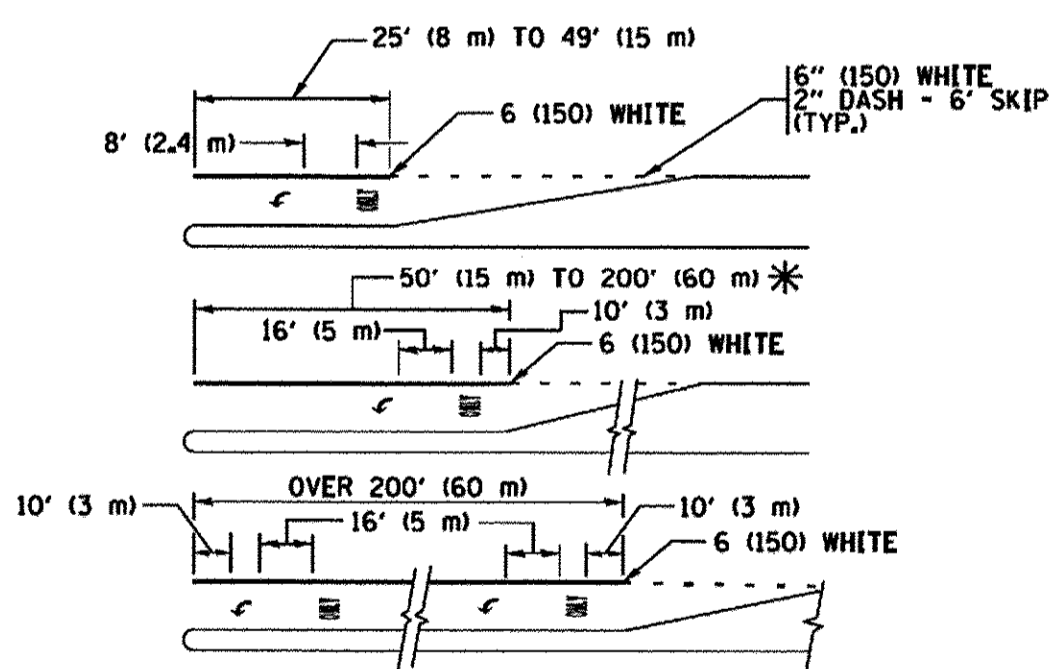
MEDIANS OVER 4' (1.2 m) WIDE



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

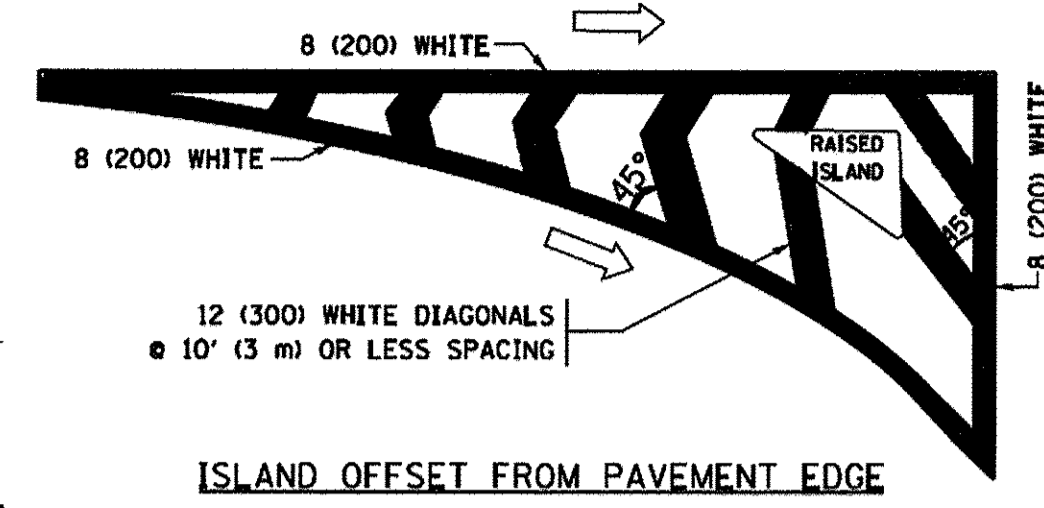


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

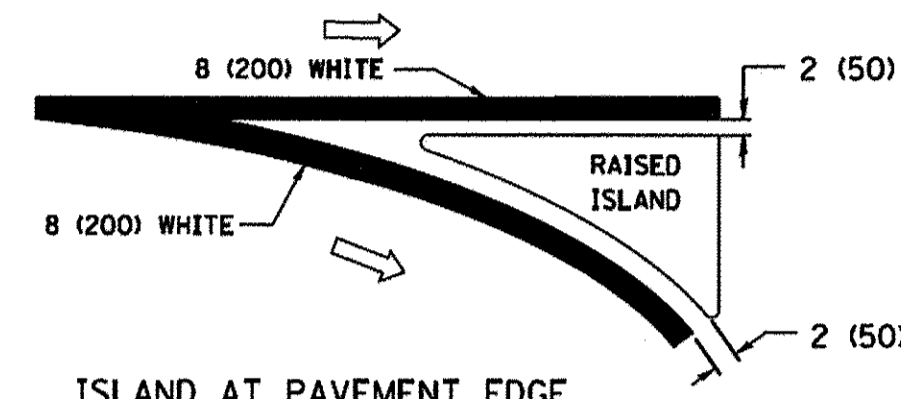
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

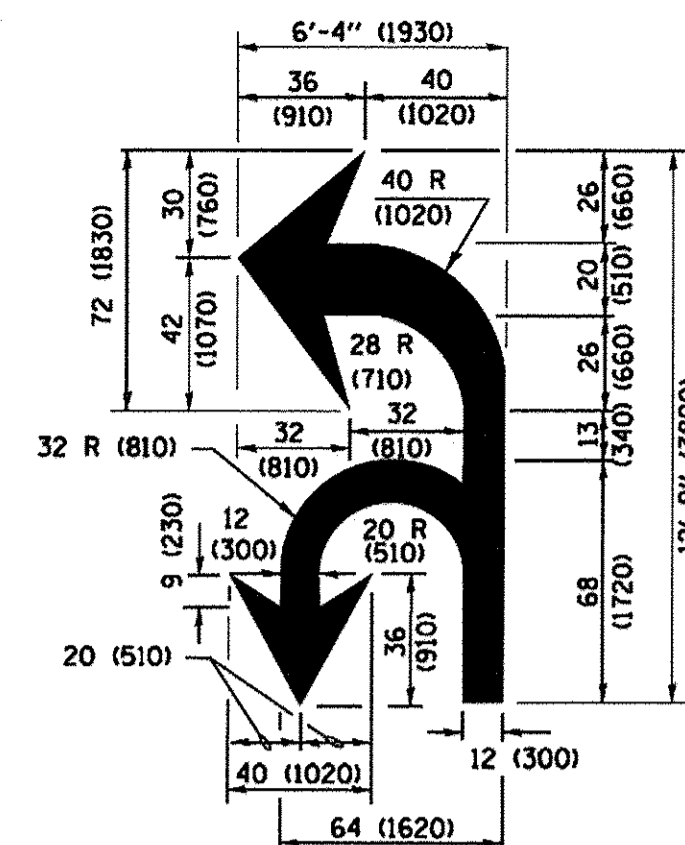


ISLAND OFFSET FROM PAVEMENT EDGE

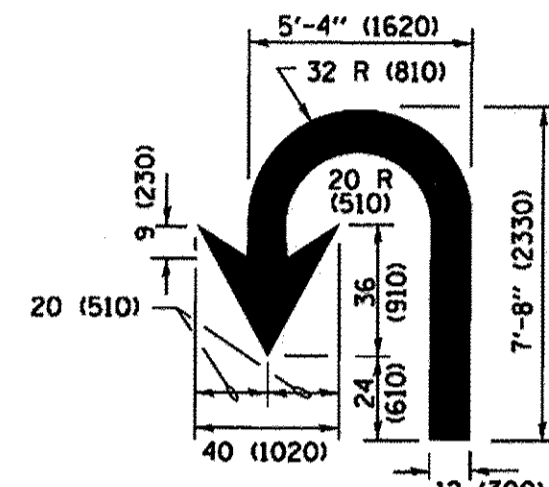


ISLAND AT PAVEMENT EDGE

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 1/2 (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 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE. SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	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 "RR" IS 6' (1.8 m) "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
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.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-CH	COOK	140	120
	TC-13			CONTRACT NO. 61C76

ILLINOIS FED. AID PROJECT

USER NAME = andy.becker	DESIGNED -	REVISED - C. JUCIUS 09-09-09
PLOT SCALE = 50,0001' / in.	DRAWN -	REVISED - C. JUCIUS 07-01-13
PLOT DATE = 12/12/2016	CHECKED -	REVISED - C. JUCIUS 12-21-15
	DATE = 7/28/2016	REVISED - C. JUCIUS 04-12-16

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

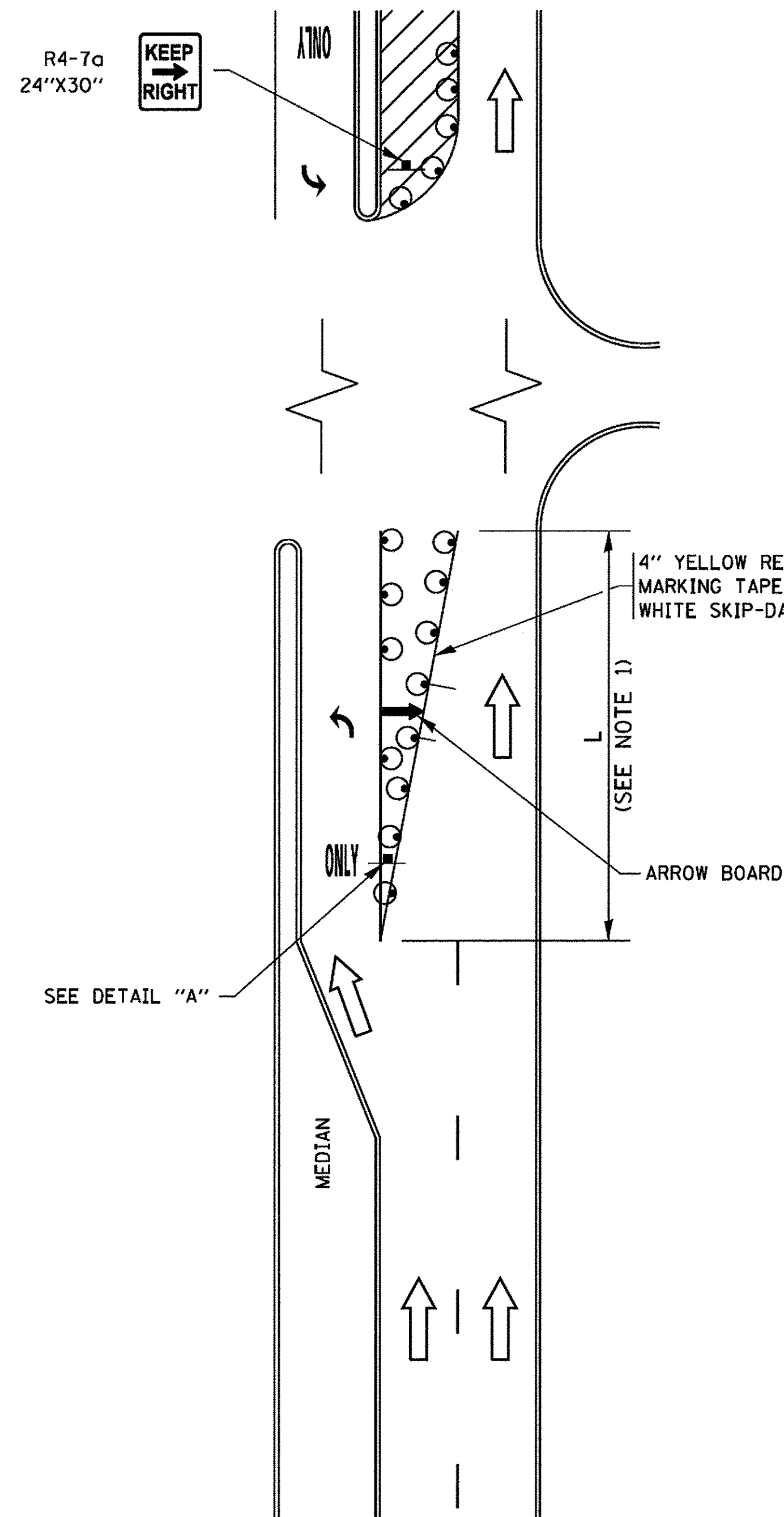
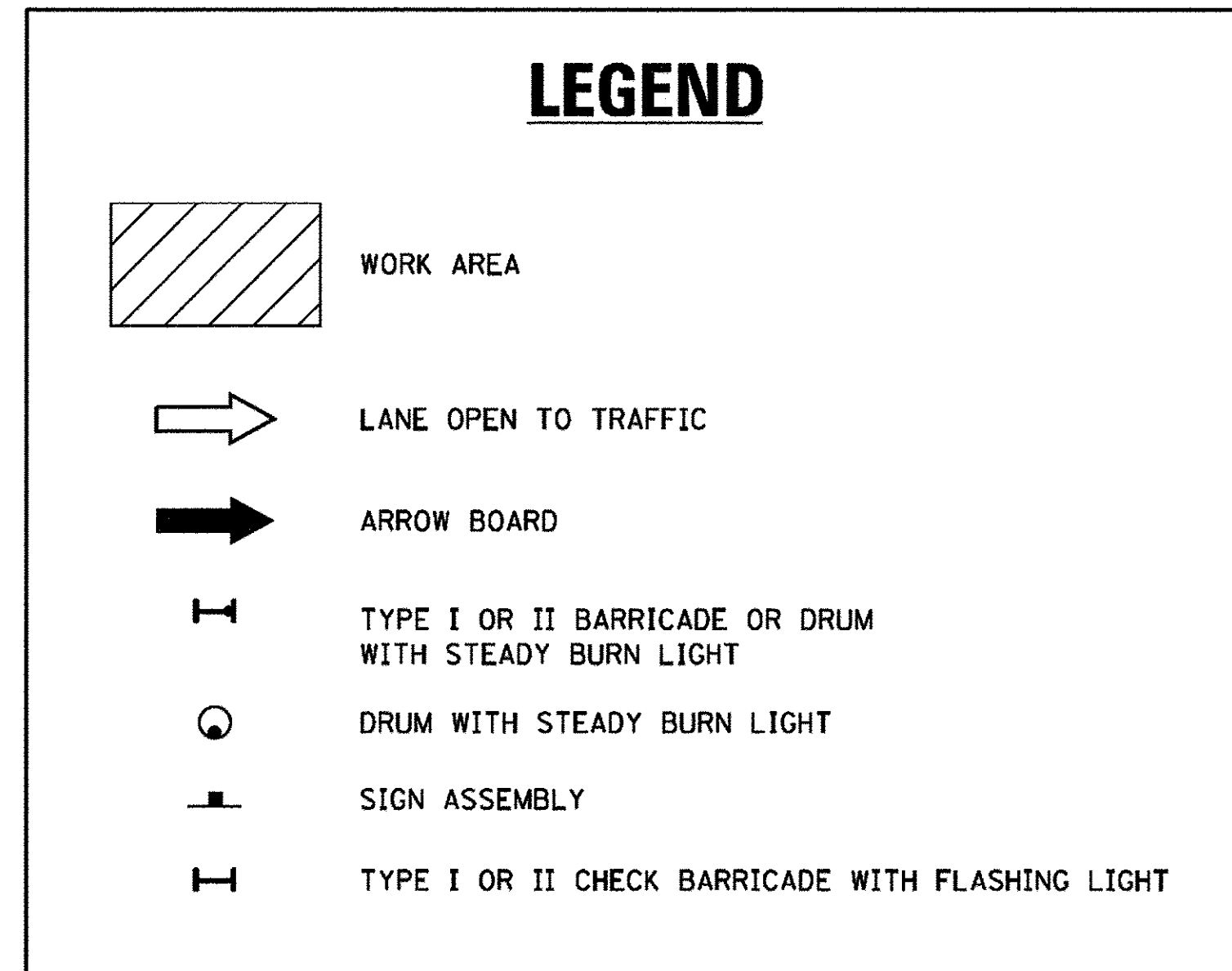


FIGURE 1

LEGEND



NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. 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.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

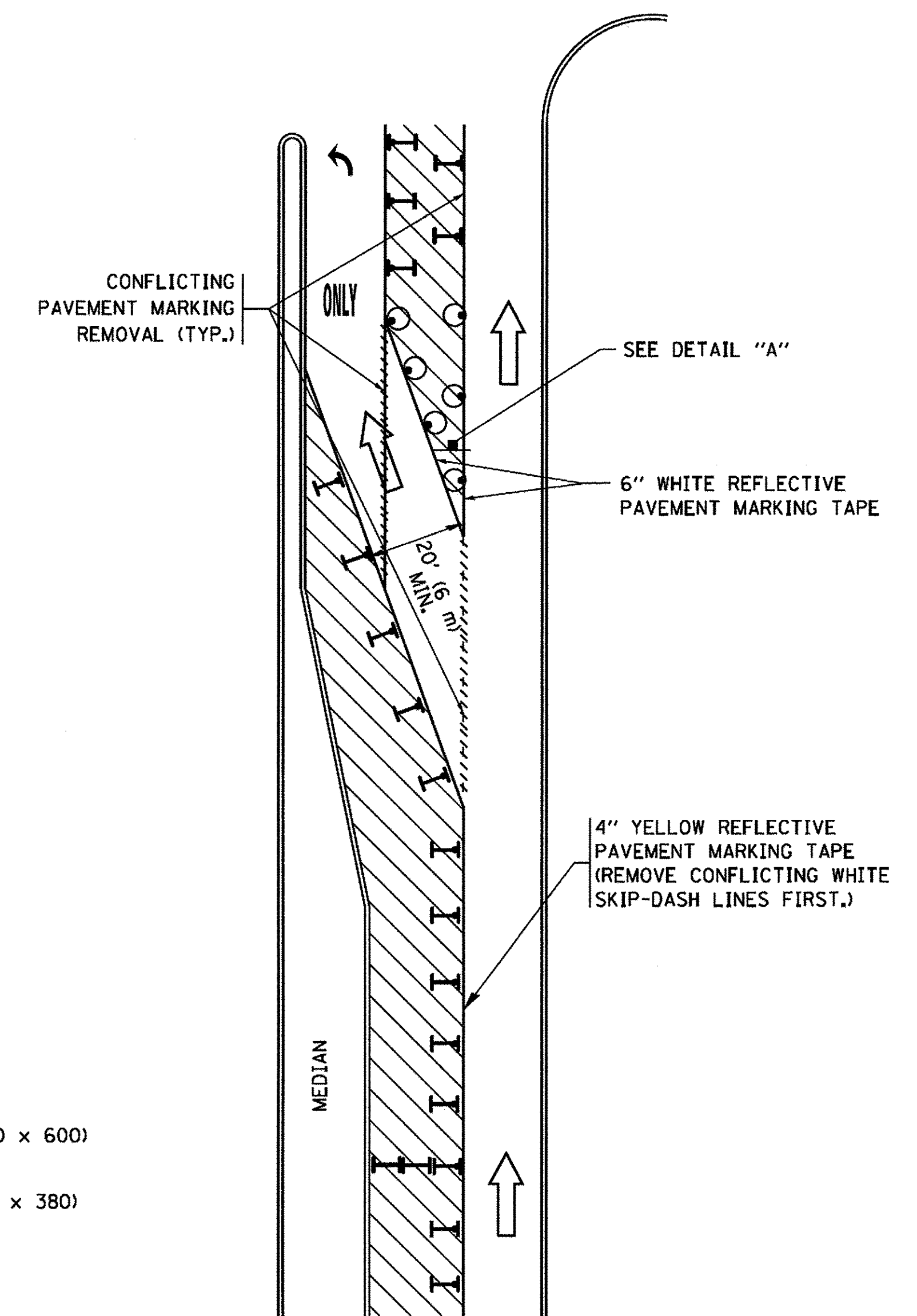
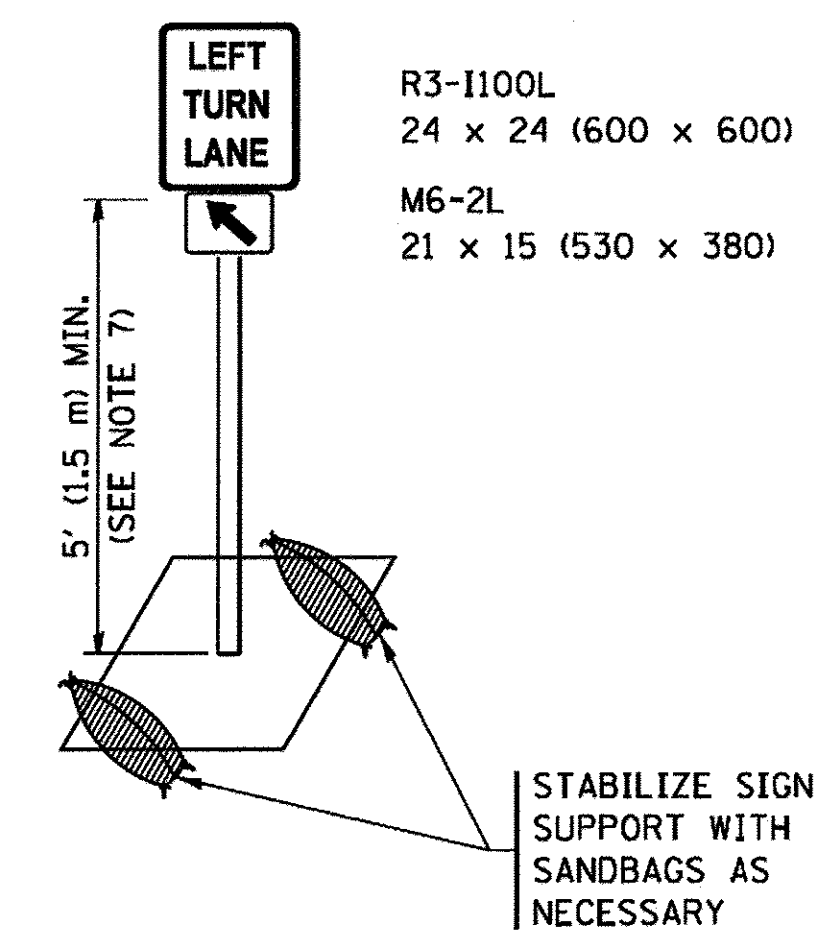


FIGURE 2



DETAIL A

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

FILE NAME = F:\6044116\980\Work\910_CAD_20-SHEETS\TC-14-D1-De.tex1.dgn



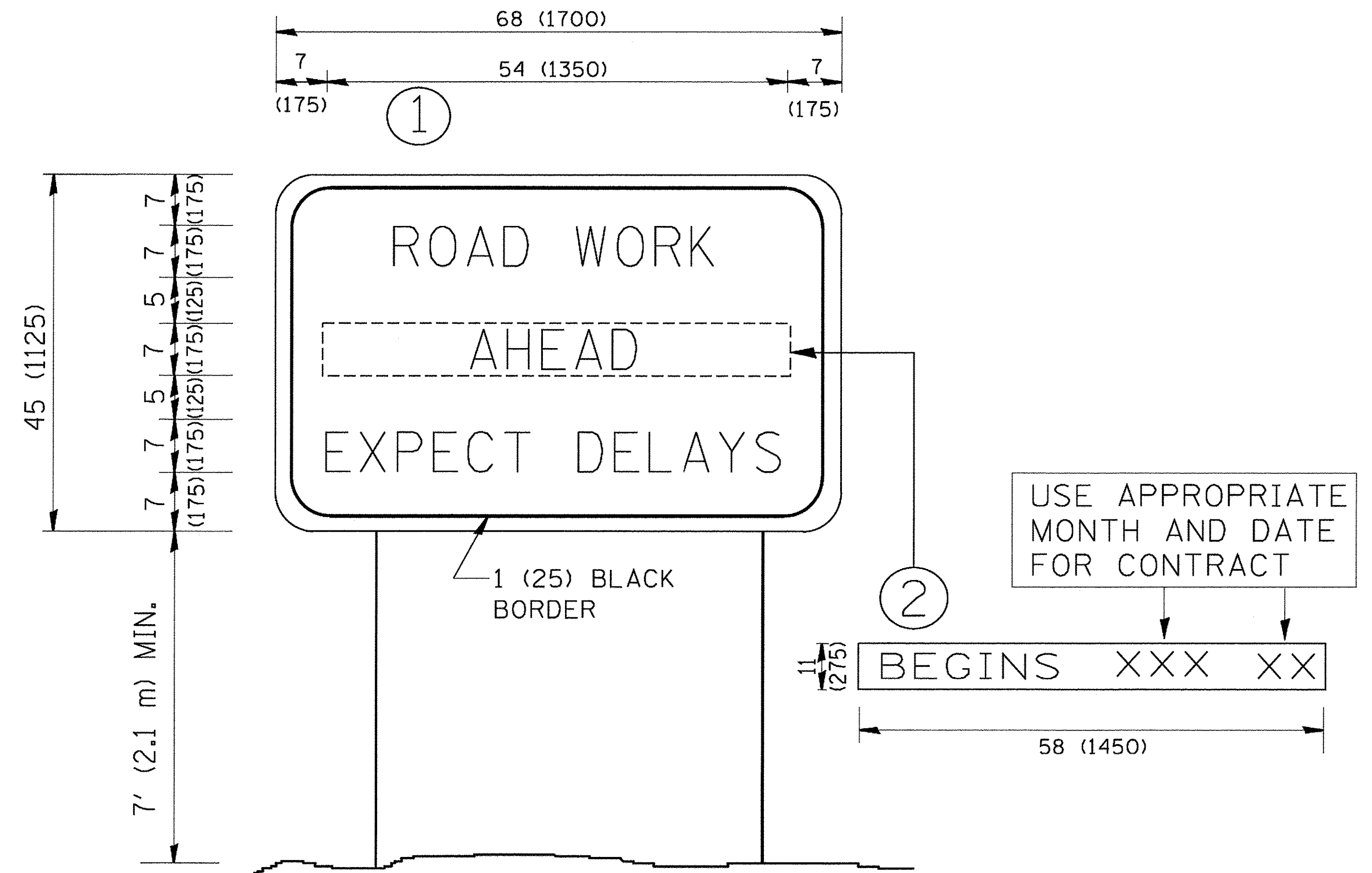
USER NAME = andy.becker	DESIGNED -	REVISED - R. BORO 09-14-09
PLOT SCALE = 50.0001' / in.	DRAWN -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 12/12/2016	CHECKED -	REVISED - A. SCHUETZE 09-15-16
	DATE - 7/28/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 350	SECTION 12-00194-00-CH	COUNTY COOK	TOTAL SHEETS 140	SHEET NO. 121
TC-14		CONTRACT NO. 61C76		ILLINOIS FED. AID PROJECT



NOTES:

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

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

FILE NAME = P:\6044116\900\WORK\310_CND\20-SHEETS\TC-22-01-Details.dgn



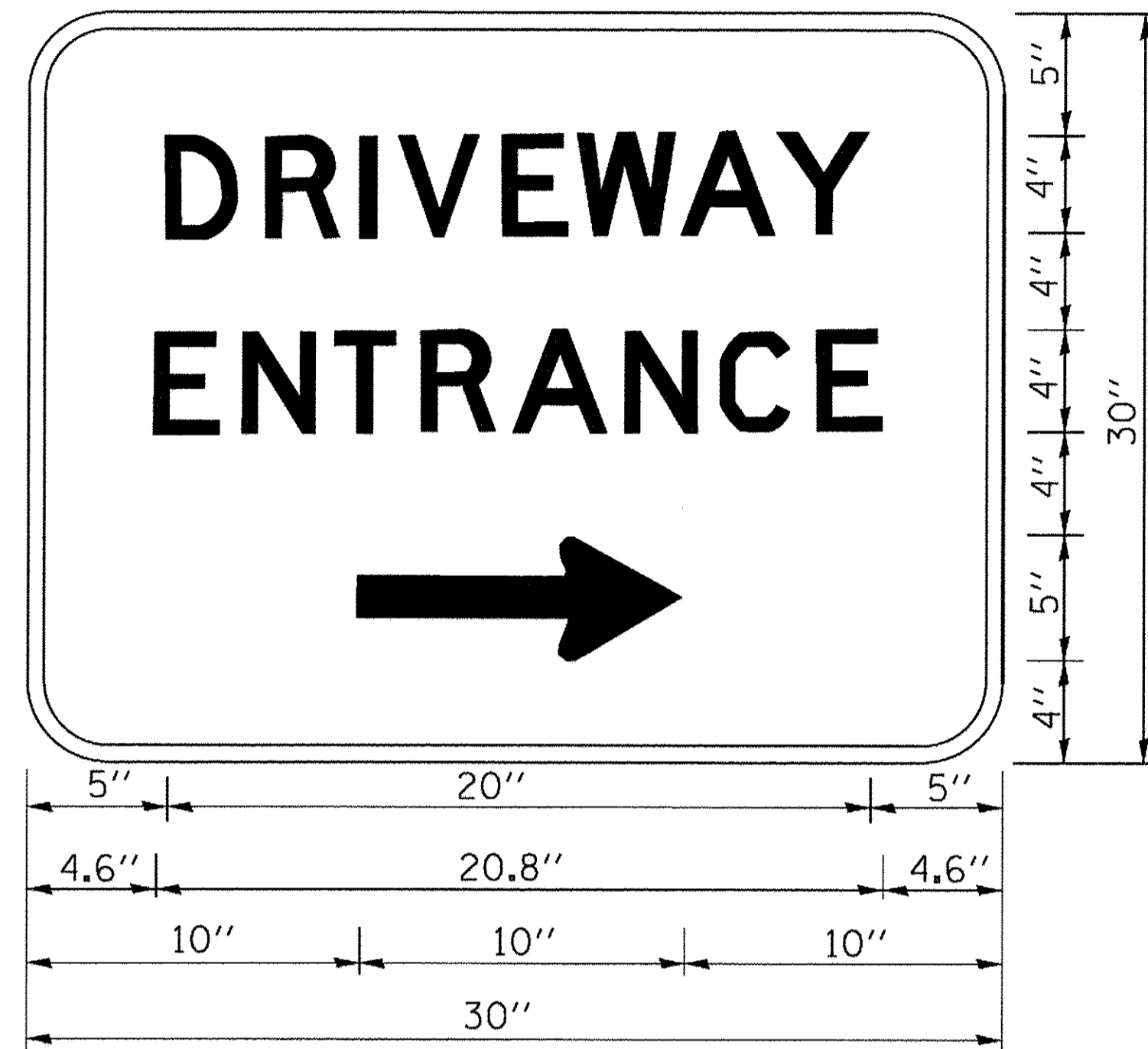
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	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0001' / 1in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 12/12/2016	DATE = 7/28/2016	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-CH	COOK	140	123
TC-22		CONTRACT NO. 61C76		
ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE
 PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN)
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME = P:\60444116\9000_WorA\9102_CAD\20-SHEETS\TC-26-01-Detail.dgn



USER NAME = andy.becker	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
PLOT SCALE = 50.0001' / 1"	CHECKED -	REVISED -
PLOT DATE = 12/12/2016	DATE - 7/28/2016	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

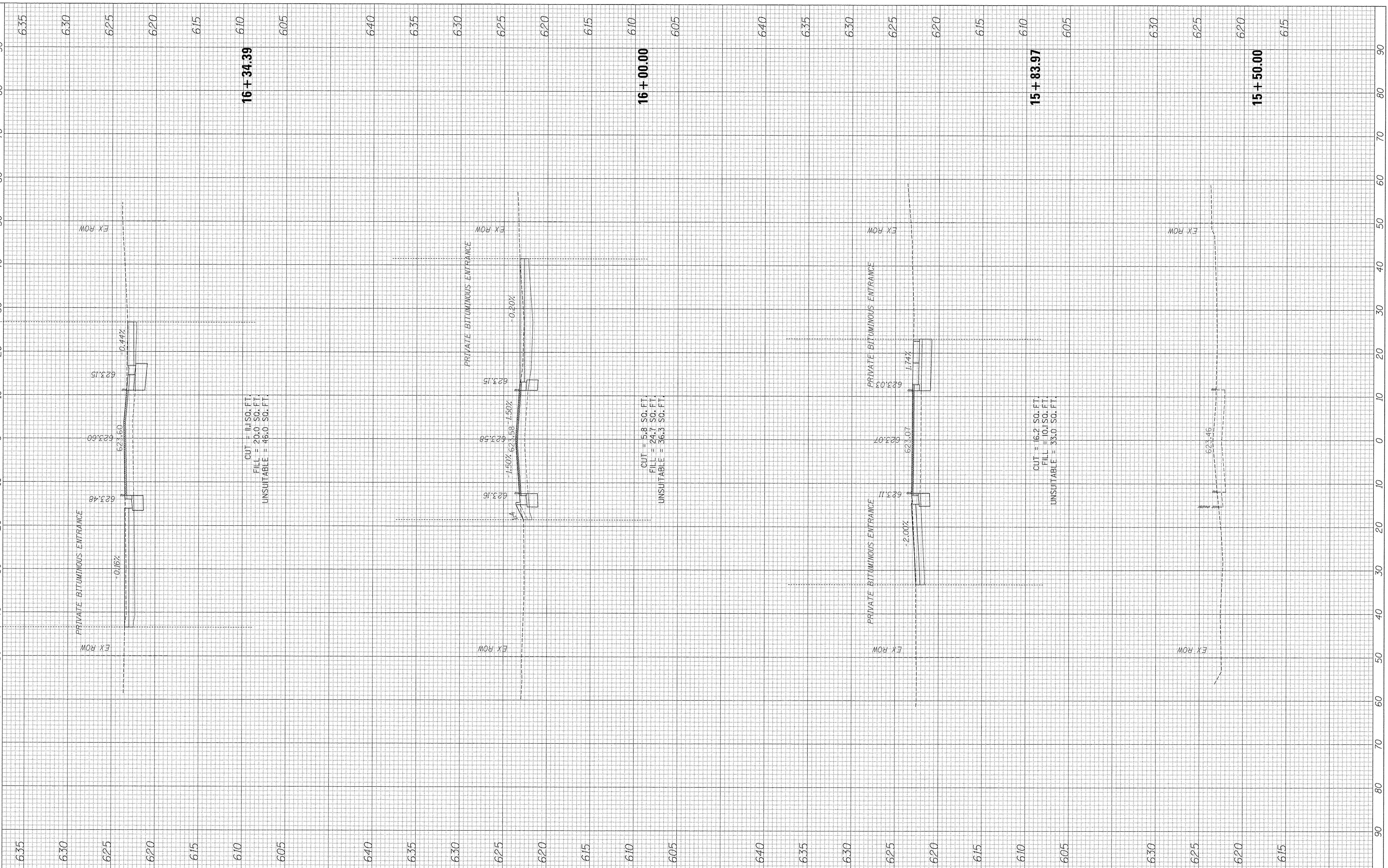
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-CH	COOK	140	124
TC-26			CONTRACT NO. 61C76	
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = andy.becker
PLOT SCALE = 10.0000' / 1"
PLOT DATE = 12/12/2016

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. 15+50.00 TO STA. 16+34.39

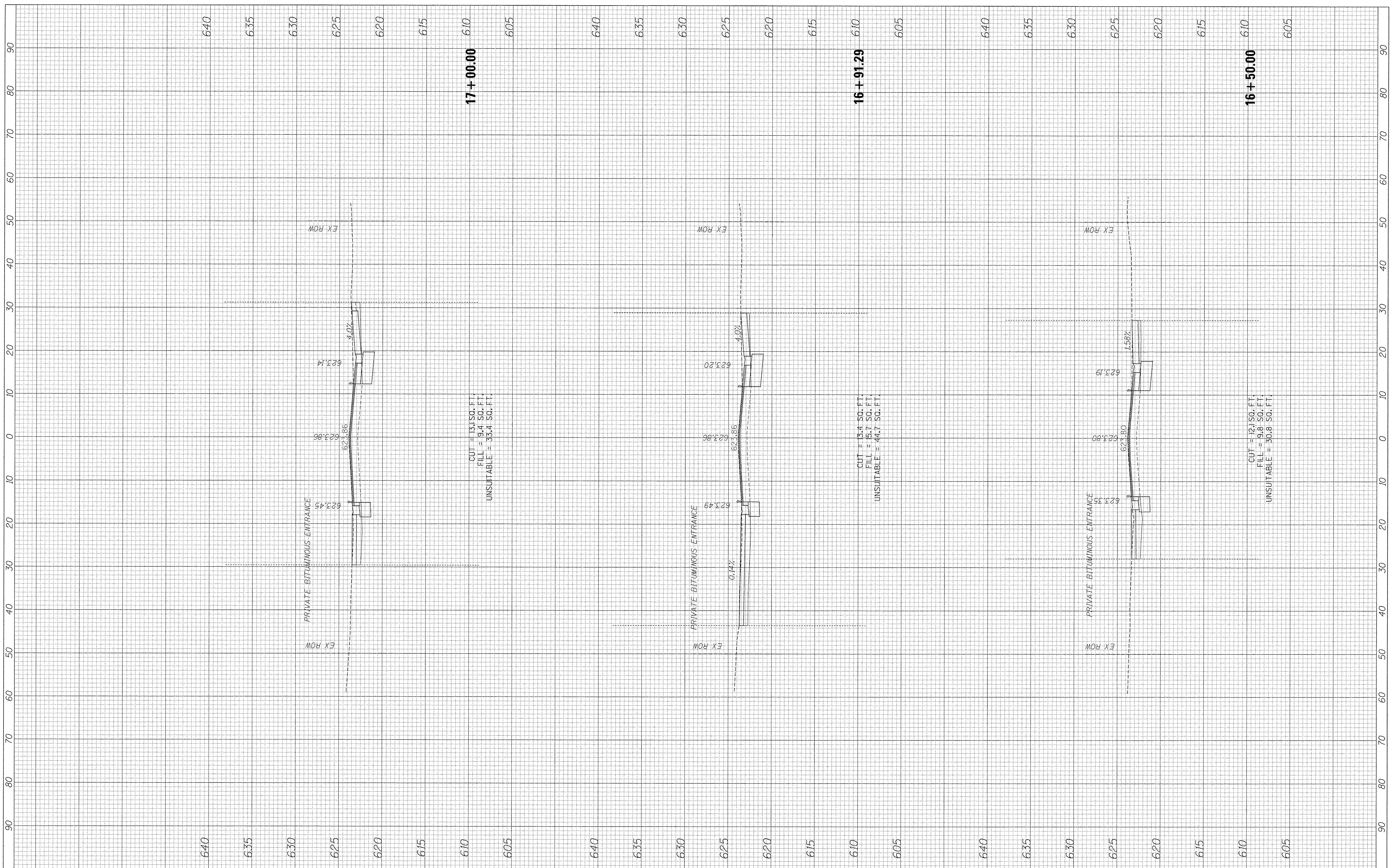
**HIBBARD RD
 CROSS SECTIONS**

F.A.P. RTE. 350	SECTION 12-00 194-00-04	COUNTY Cook	TOTAL SHEETS 140	SHEET NO. 125
CONTRACT NO. 61076				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = andy.becker
 PLOT SCALE = 10.0000' / 1"
 PLOT DATE = 12/12/2016

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

HIBBARD RD
 CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 16+50.00 TO STA. 17+00.00

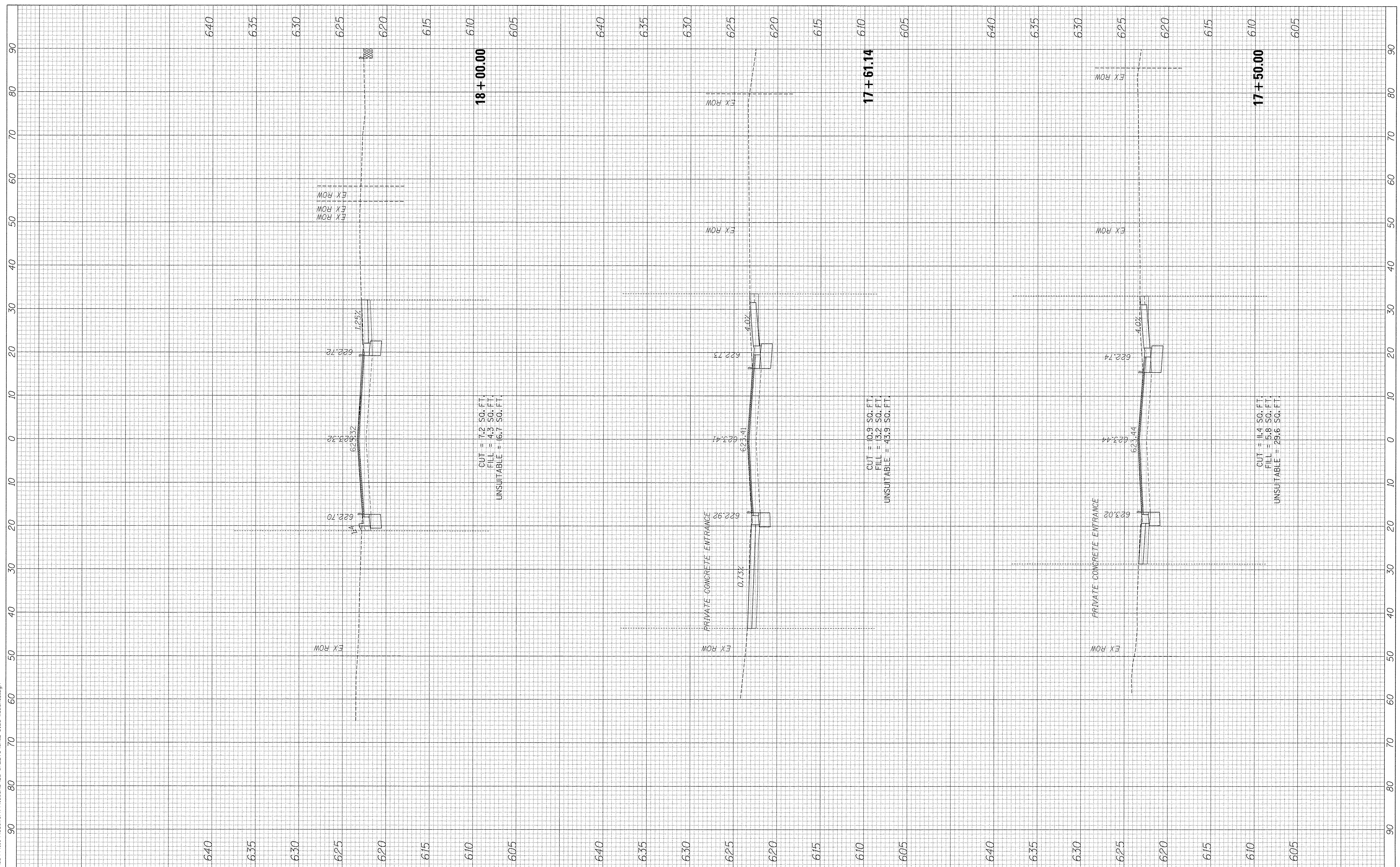
F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-2H	COOK	140	126
CONTRACT NO. 61076			ILLINOIS FED. AID PROJECT	

01/2015/10/16/Agg/01/2015/10/16/27M

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

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

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USER NAME = andy.becker
 PLOT SCALE = 10.0000' / 1"
 PLOT DATE = 12/12/2016

DESIGNED -	REVIS
DRAWN -	REVIS
CHECKED -	REVIS
DATE -	REVIS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

HIBBARD RD
 CROSS SECTIONS
 SCALE: SHEET OF SHEETS STA. 17+50.00 TO STA. 18+00.00

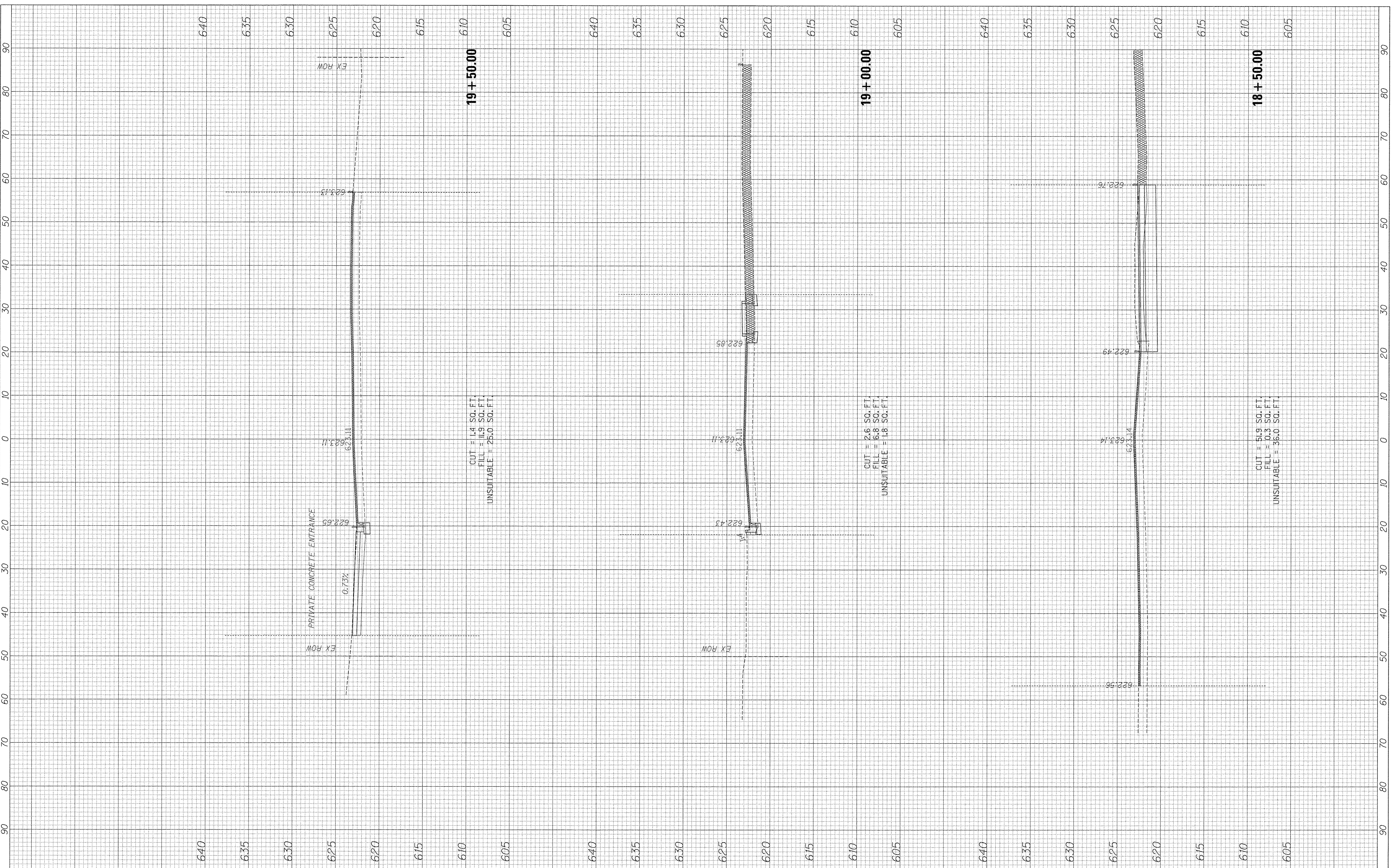
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-CH	COOK	140	127
CONTRACT NO. 61C76			ILLINOIS FED. AID PROJECT	

CHICAGO WORKSHOP 12/12/2016 10:28 AM

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

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

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USER NAME = andy.becker
 PLOT SCALE = 10.0000' / 1" = 100.0000'
 PLOT DATE = 12/12/2016

DESIGNED -	REVISOR -
DRAWN -	REVISION -
CHECKED -	REVISION -
DATE -	REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIBBARD RD
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 18+50.00 TO STA. 19+50.00

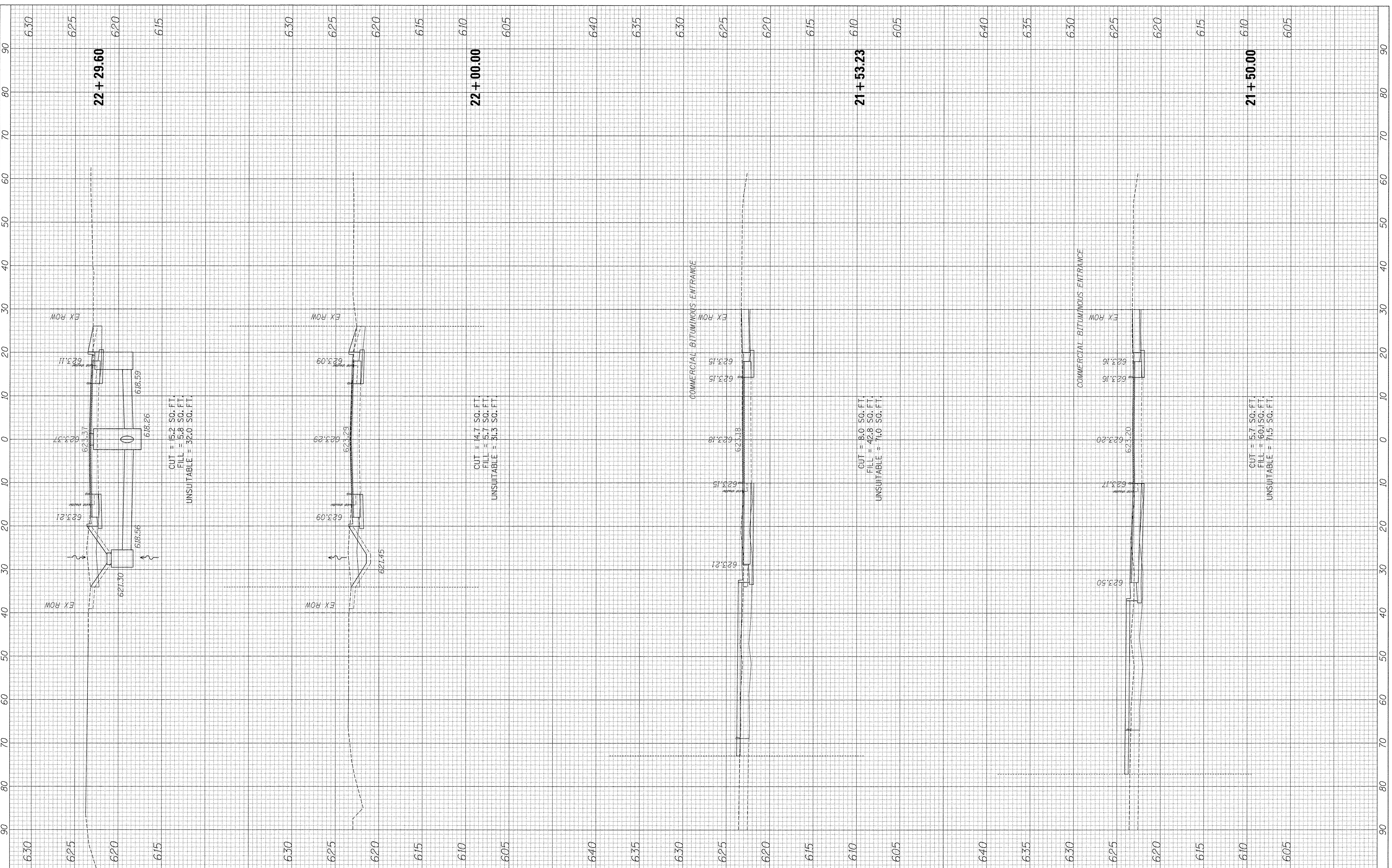
F.A.P. RTE. 350	SECTION 12-00194-00-CH	COUNTY COOK	TOTAL SHEETS 140	SHEET NO. 128
CONTRACT NO. 61C76			ILLINOIS FED. AID PROJECT	

CHICAGO/STP/12/2016/10/28/16

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

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

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USER NAME = andy.becker
 PLOT SCALE = 10.0000' / 1" = 100'
 PLOT DATE = 12/12/2016

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

HIBBARD RD
 CROSS SECTIONS

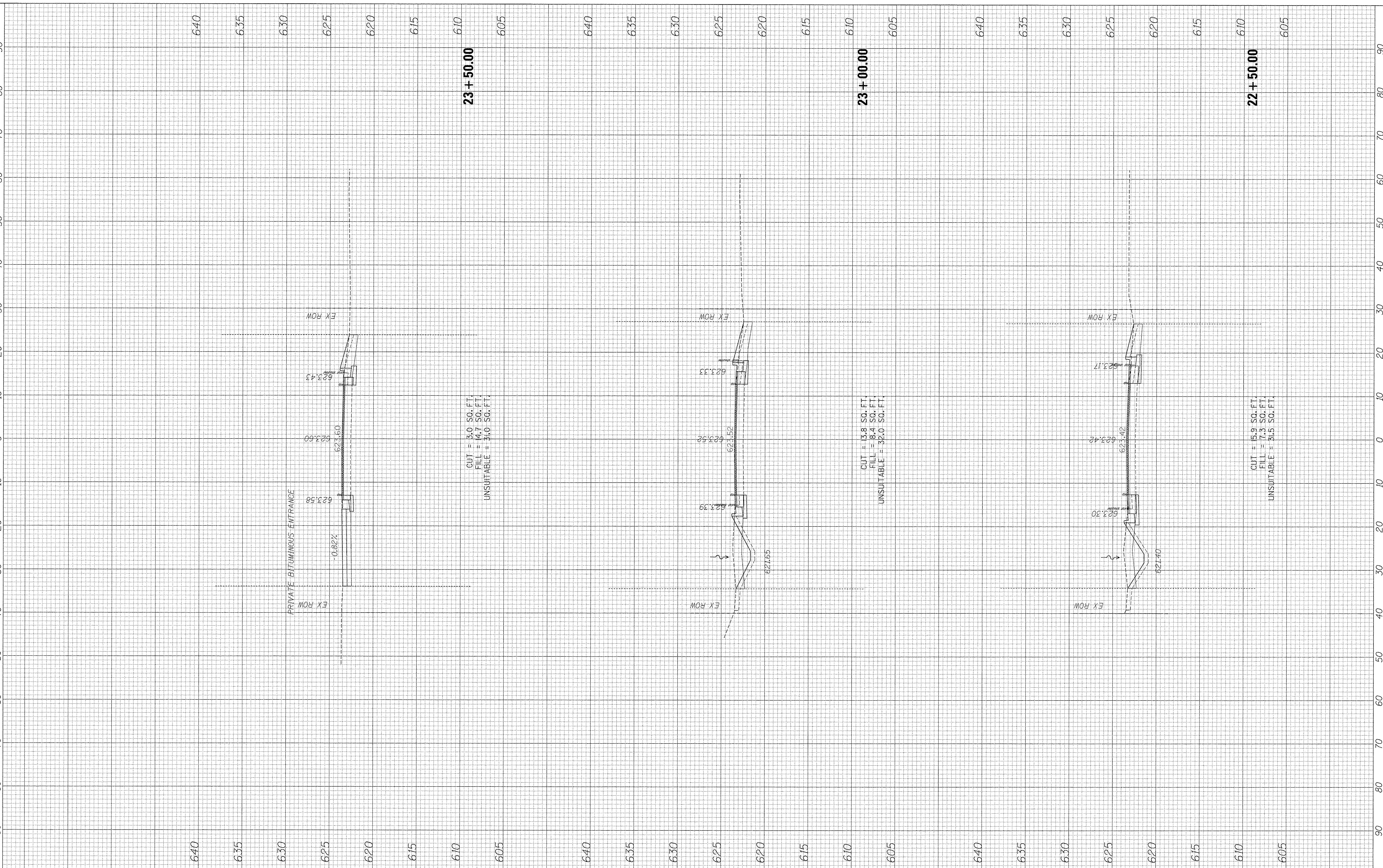
SCALE: SHEET OF SHEETS STA. 21+50.00 TO STA. 22+29.60

F.A.P. RTE. 350	SECTION 12-00194-00-0H	COUNTY COOK	TOTAL SHEETS 140	SHEET NO. 130
CONTRACT NO. 61C76			ILLINOIS FED. AID PROJECT	

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

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

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23 + 50.00

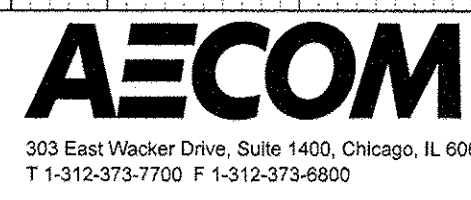
23 + 00.00

22 + 50.00

CUT = 3.0 SQ. FT.
FILL = 4.7 SQ. FT.
UNSUITABLE = 3.0 SQ. FT.

CUT = 13.8 SQ. FT.
FILL = 8.4 SQ. FT.
UNSUITABLE = 32.0 SQ. FT.

CUT = 15.9 SQ. FT.
FILL = 7.3 SQ. FT.
UNSUITABLE = 31.5 SQ. FT.



USER NAME = andy.becker
DESIGNED -
DRAWN -
CHECKED -
DATE -
PLOT SCALE = 10.0000' / 1"
PLOT DATE = 12/12/2016

DESIGNED -
DRAWN -
CHECKED -
DATE -
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIBBARD RD
CROSS SECTIONS
SCALE: SHEET OF SHEETS STA. 22+50.00 TO STA. 23+50.00

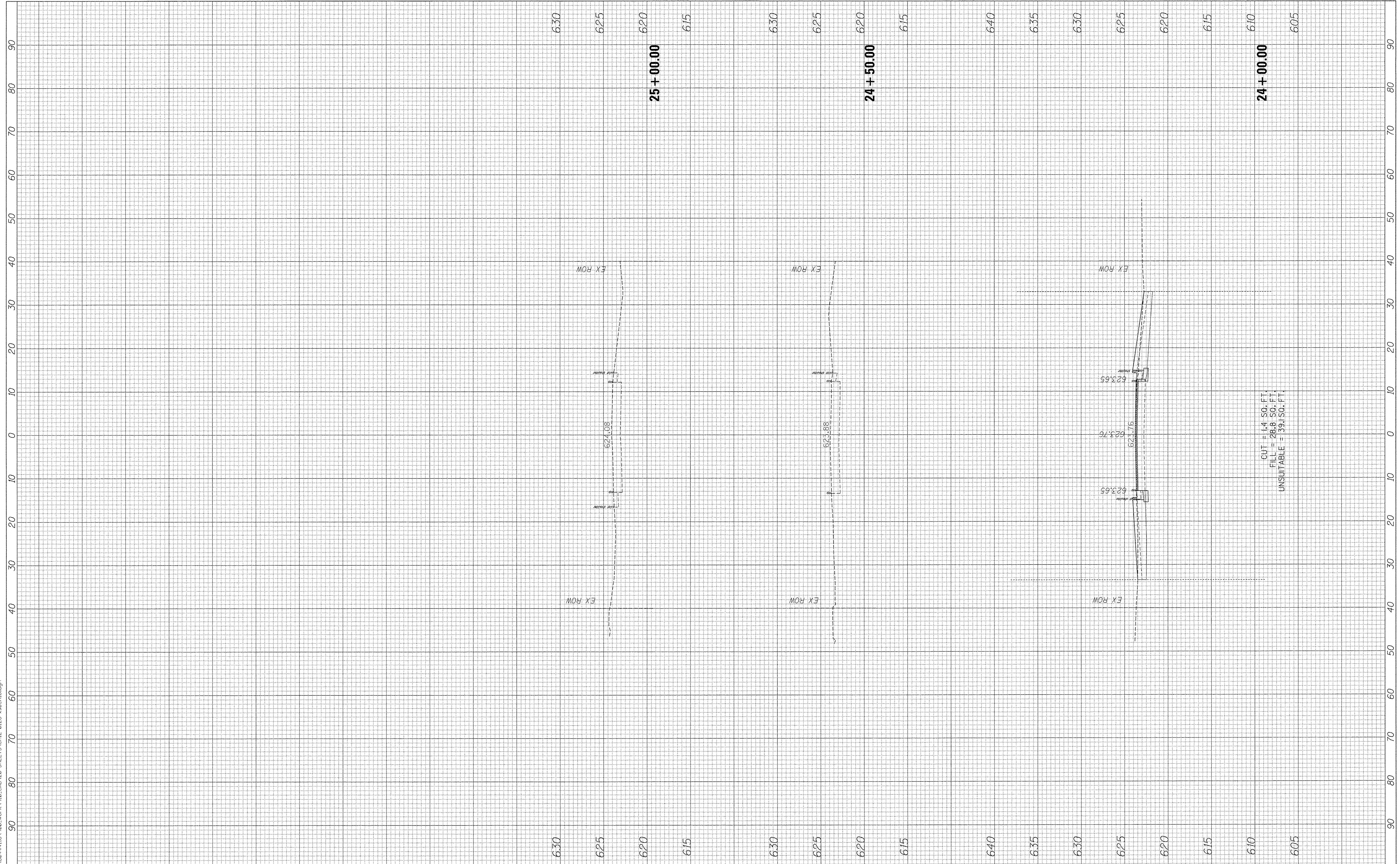
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-011	COOK	140	131
CONTRACT NO. 61C76			ILLINOIS FED. AID PROJECT	

01/23/2016 10:46:23 AM

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

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

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USER NAME = andy.becker
 PLOT SCALE = 10.0000' / 1"
 PLOT DATE = 12/12/2016

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**HIBBARD RD
 CROSS SECTIONS**

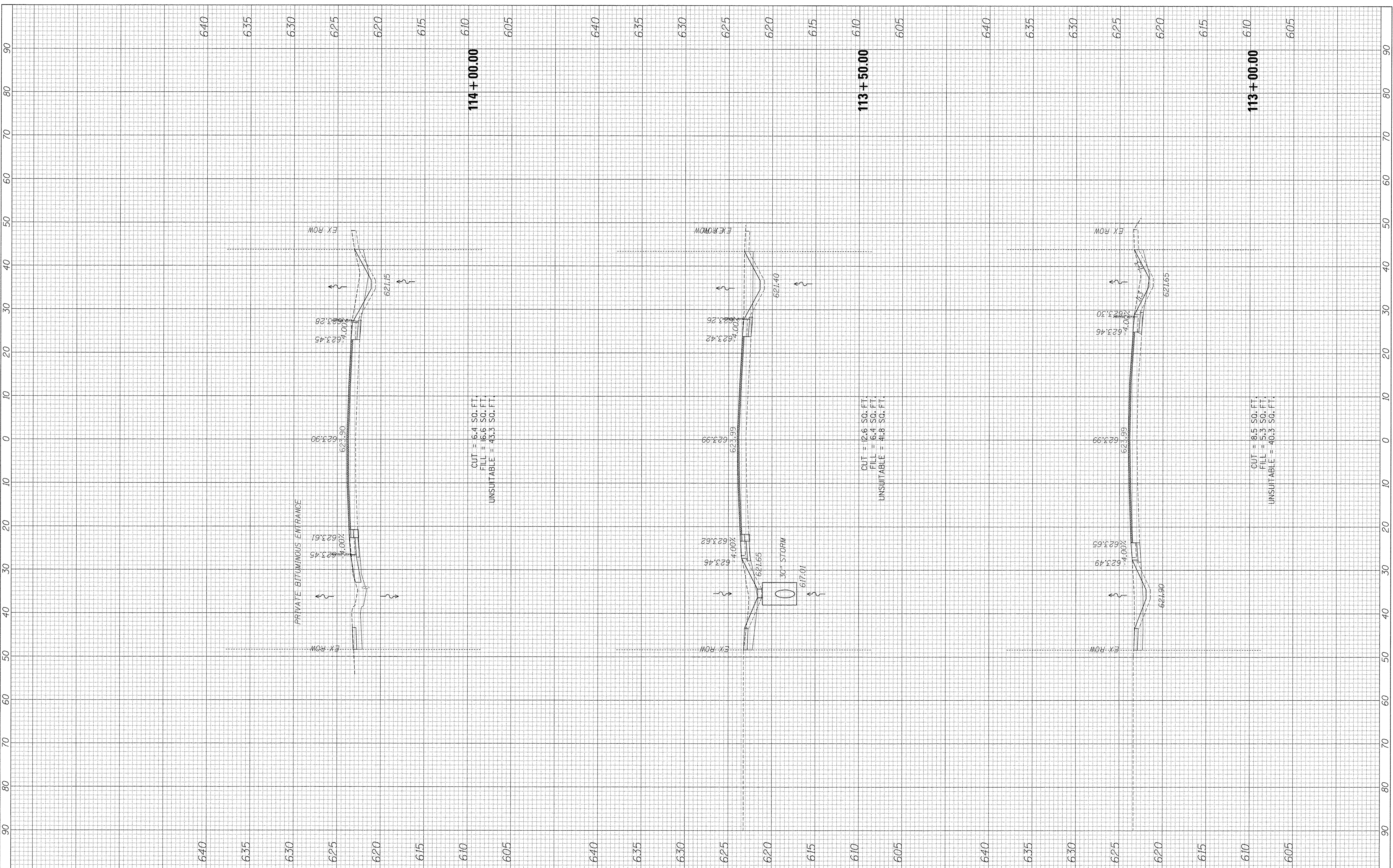
SCALE: SHEET OF SHEETS STA. 24+00.00 TO STA. 25+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-01H	COOK	140	132
CONTRACT NO. 61C74			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
CHECKED		
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ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
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USER NAME = andy.becker
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -
 PLOT SCALE = 10.0000' / 1" / in.
 PLOT DATE = 12/12/2016

REVISIONS:
 REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. 113+00.00 TO STA. 114+00.00

**RT. 41 (SKOKIE RD)
 CROSS SECTIONS**

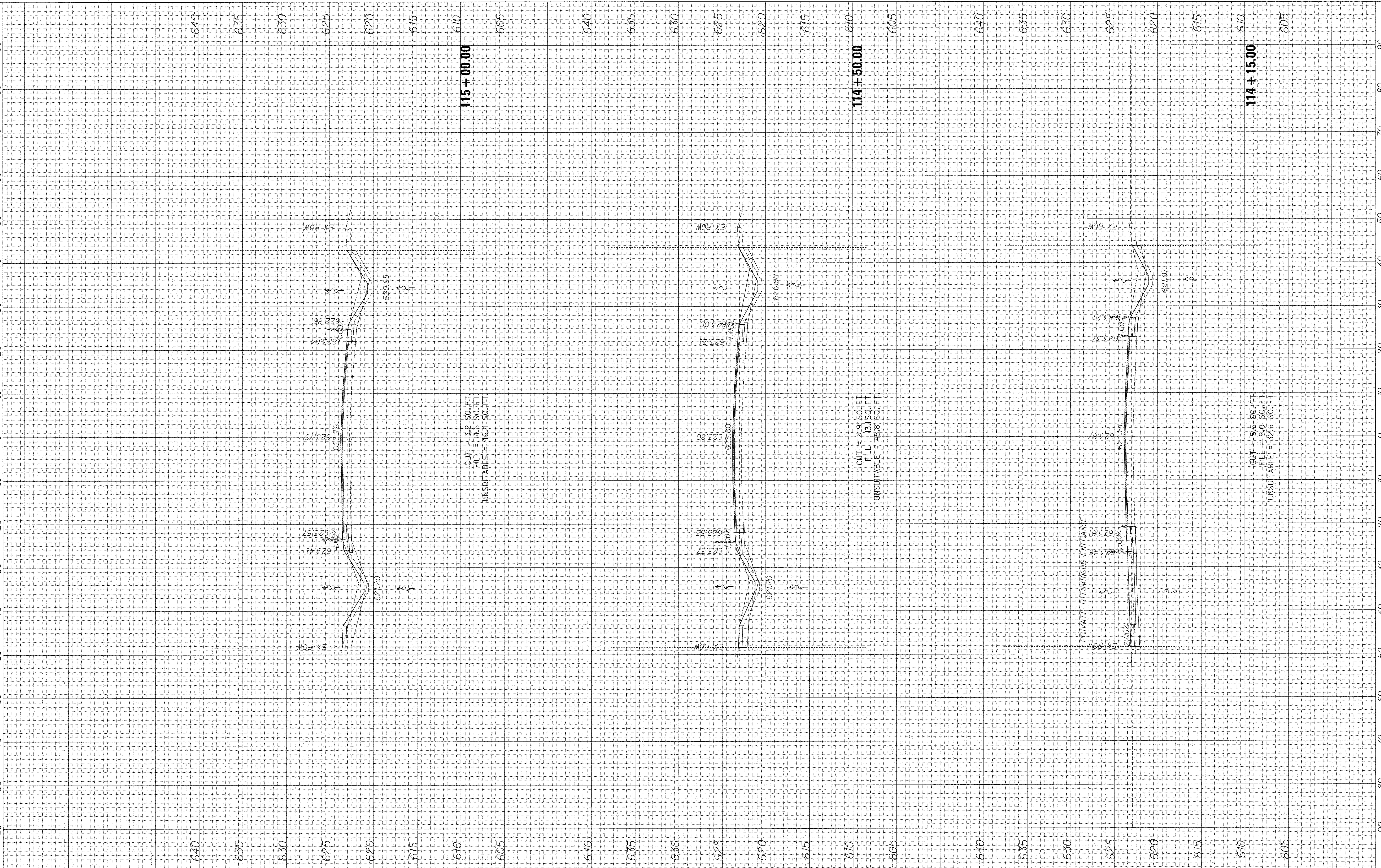
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-04	COOK	140	133
CONTRACT NO. 61C76				
ILLINOIS FED. AID PROJECT				

DATE PLOTTED: 12/12/2016 10:53:56 AM

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

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

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USER NAME = andy.becker
PLOT SCALE = 10.0000' / 1"
PLOT DATE = 12/12/2016

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA. 114+15.00	TO STA. 115+00.00
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**RT. 41 (SKOKIE RD)
CROSS SECTIONS**

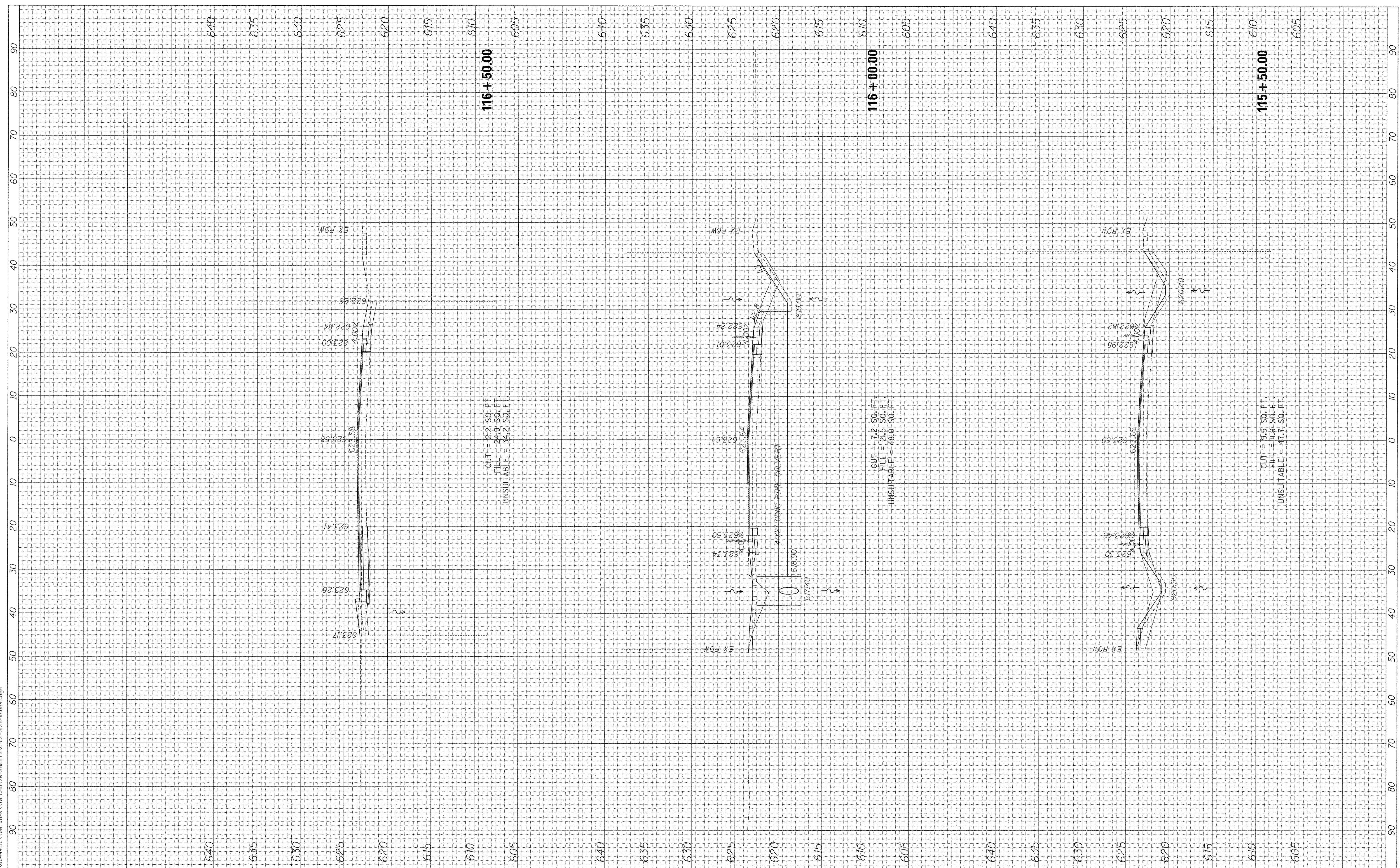
F.A.P. RTE. 350	SECTION 12-00194-00-CH	COUNTY COOK	TOTAL SHEETS 140	SHEET NO. 134
CONTRACT NO. 61C76			ILLINOIS FED. AID PROJECT	

CH102025.dwg (p. 13) 12/28/16 10:58:14 PM

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

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

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 303 East Wacker Drive, Suite 1400, Chicago, IL 60601
 T 1-312-373-7700 F 1-312-373-8800



USER NAME = andy.becker
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -
 PLOT SCALE = 10.0000' / 1" /
 PLOT DATE = 12/12/2016

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. 115+50.00 TO STA. 116+50.00

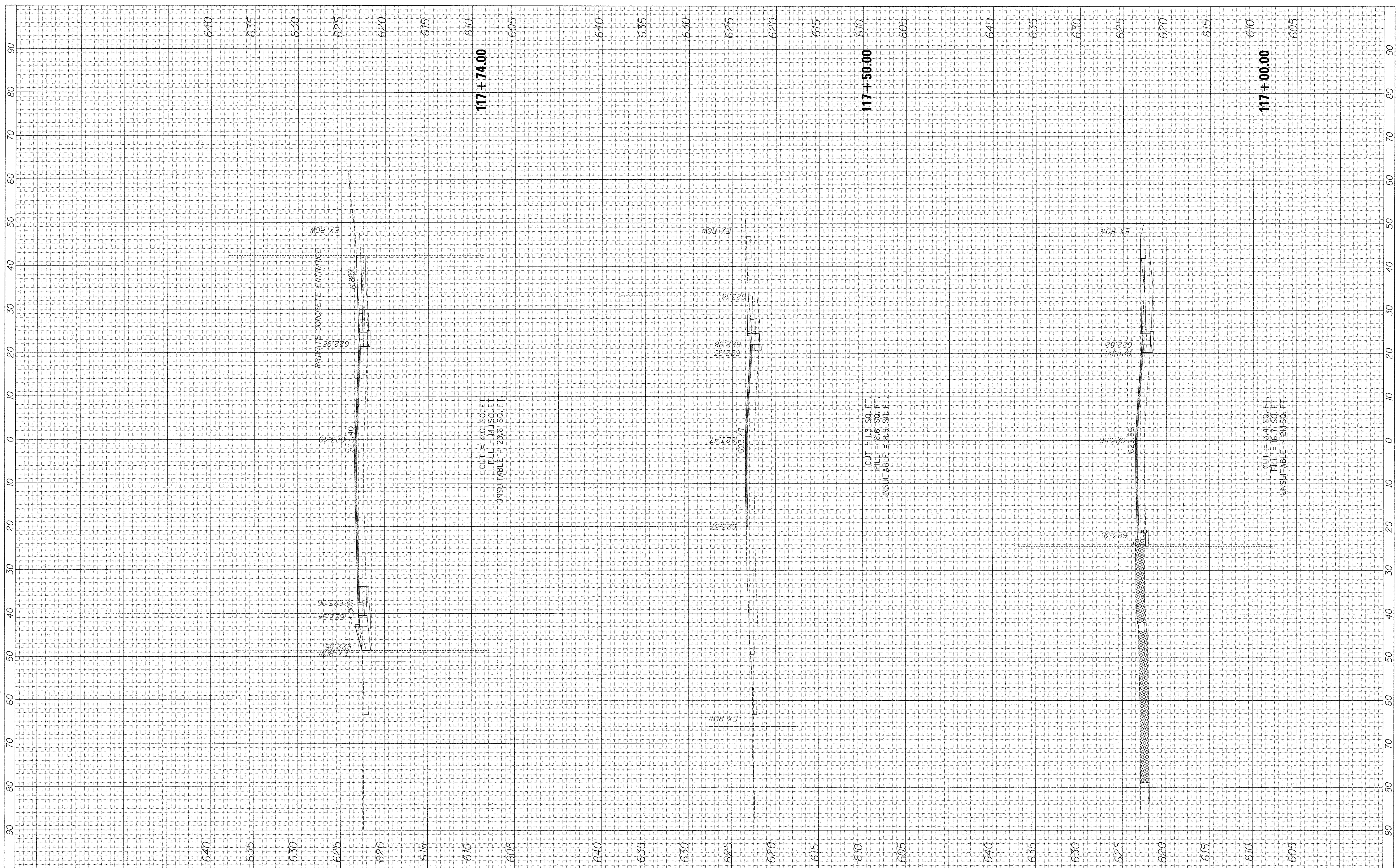
**RT. 41 (SKOKIE RD)
 CROSS SECTIONS**

F.A.P. RTE. 350	SECTION 12-00194-00-CH	COUNTY COOK	TOTAL SHEETS 140	SHEET NO. 135
CONTRACT NO. 61C76			ILLINOIS FED. AID PROJECT	

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

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

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USER NAME = andy.becker
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 12/12/2016

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. 117+00.00 TO STA. 117+74.00

**RT. 41 (SKOKIE RD)
CROSS SECTIONS**

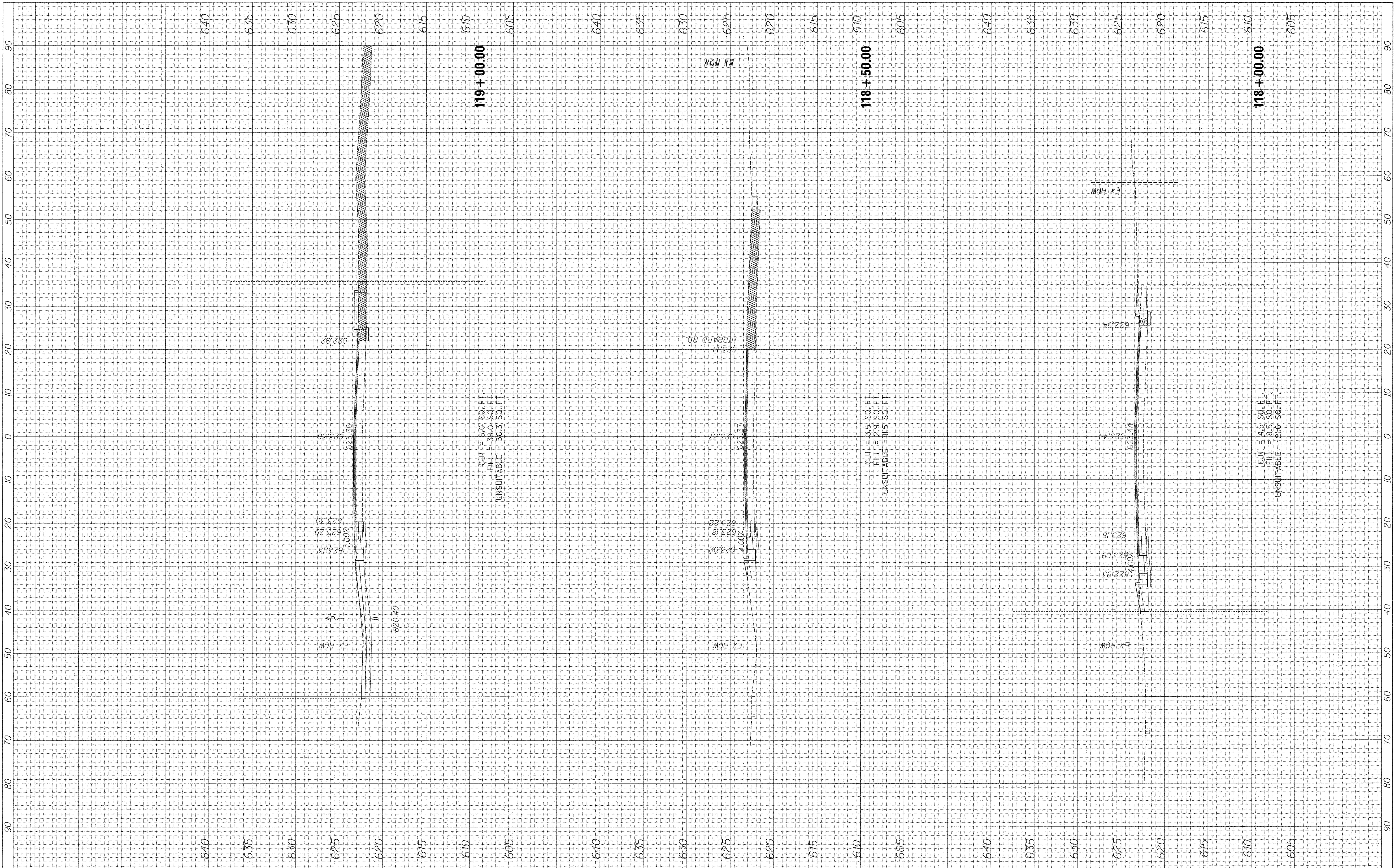
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-CH	COOK	140	136
CONTRACT NO. 61C76			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 61C76

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

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

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USER NAME = andy.becker
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -
 PLOT SCALE = 10.0000' / 1"

REVISOR -
 REVISION -
 REVISION -
 REVISION -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RT. 41 (SKOKIE RD)
 CROSS SECTIONS

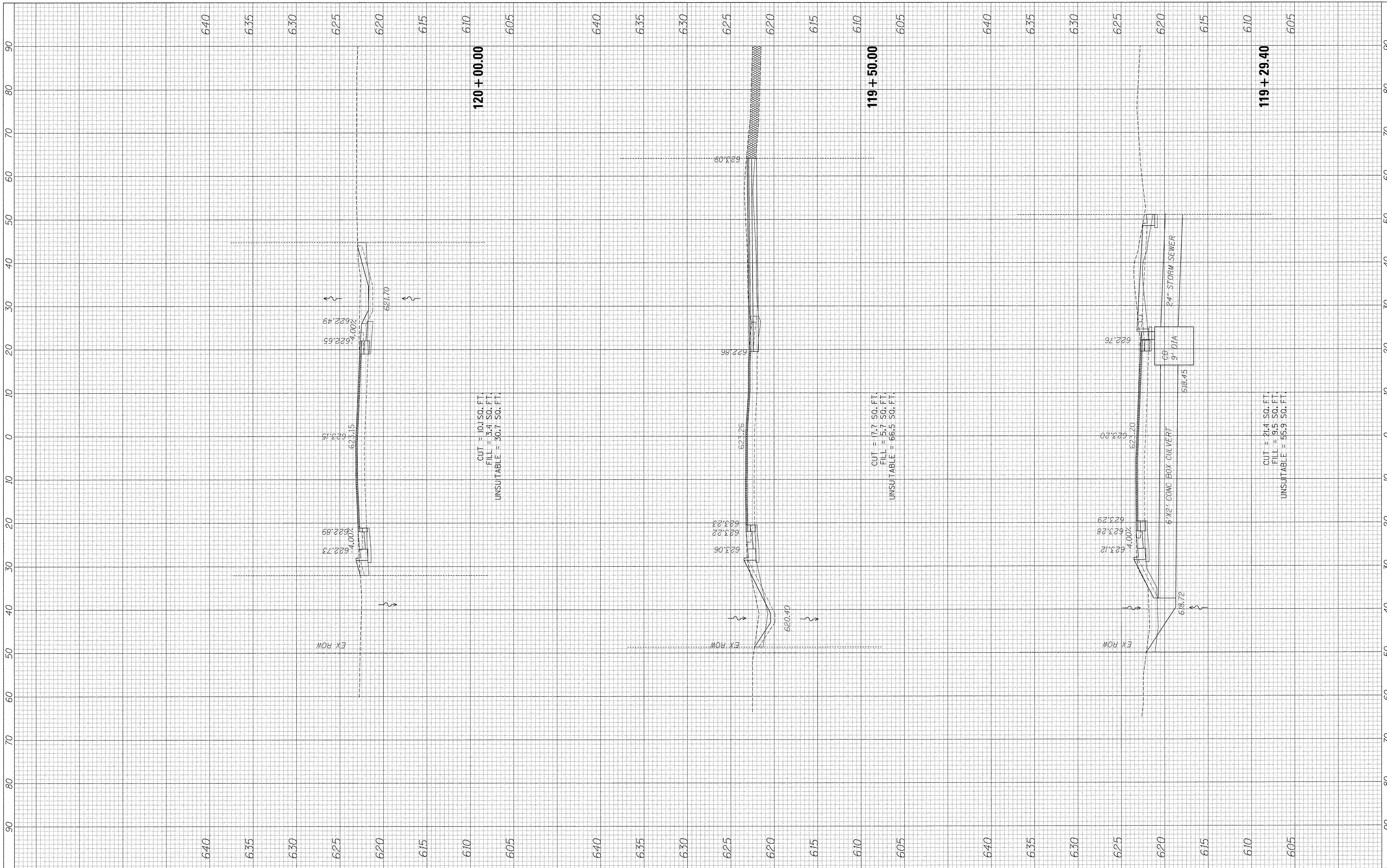
SCALE: SHEET OF SHEETS STA. 118+00.00 TO STA. 119+00.00

F.A.P. RTE. 350	SECTION 12-00194-00-CH	COUNTY COOK	TOTAL SHEETS 140	SHEET NO. 137
CONTRACT NO. 61276			ILLINOIS FED. AID PROJECT	

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

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

FILE NAME = P:\50444116A\5000_Morka\910_CAD\2012\2012\12\2012\12\2012.dwg



120 + 00.00

CUT = 10.1 SQ. FT.
FILL = 3.4 SQ. FT.
UNSUITABLE = 30.7 SQ. FT.

119 + 50.00

CUT = 7.7 SQ. FT.
FILL = 5.7 SQ. FT.
UNSUITABLE = 66.5 SQ. FT.

119 + 29.40

CUT = 21.4 SQ. FT.
FILL = 19.5 SQ. FT.
UNSUITABLE = 55.9 SQ. FT.



USER NAME = andy.becker
PLOT SCALE = 10.0000' / 1" / 1" / 1"
PLOT DATE = 12/12/2016

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RT. 41 (SKOKIE RD)
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 119+29.40 TO STA. 120+00.00

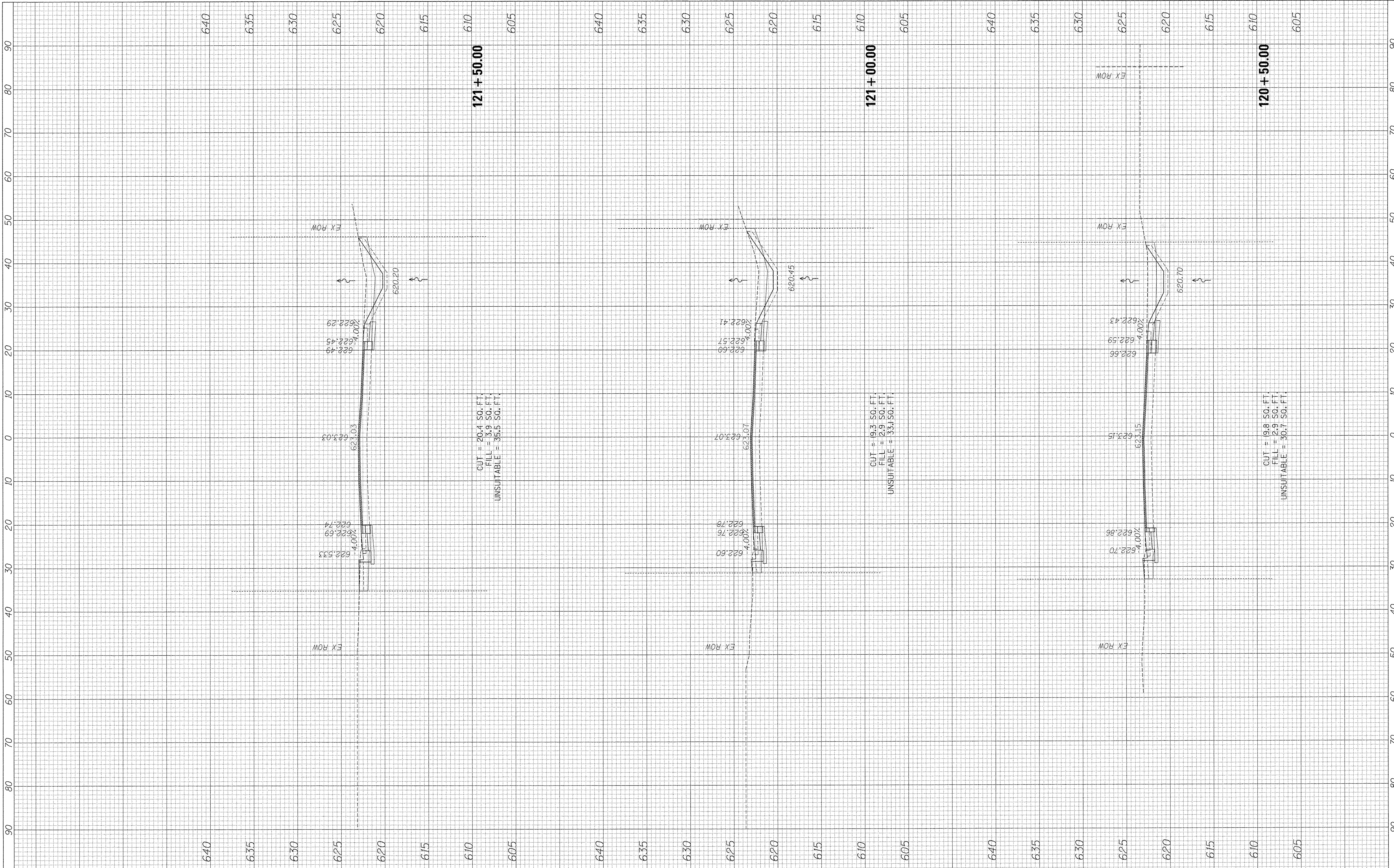
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-CH	COOK	140	138
CONTRACT NO. 61C76				
ILLINOIS FED. AID PROJECT				

DATE PLOTTED: 12/20/16 10:57 AM

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

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

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USER NAME = andy.becker
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -
 PLOT SCALE = 10.0000' / 1"
 PLOT DATE = 12/12/2016

REVISOR
 REVISION
 REVISION
 REVISION
 REVISION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. 120+50.00 TO STA. 121+50.00

RT. 41 (SKOKIE RD)
 CROSS SECTIONS

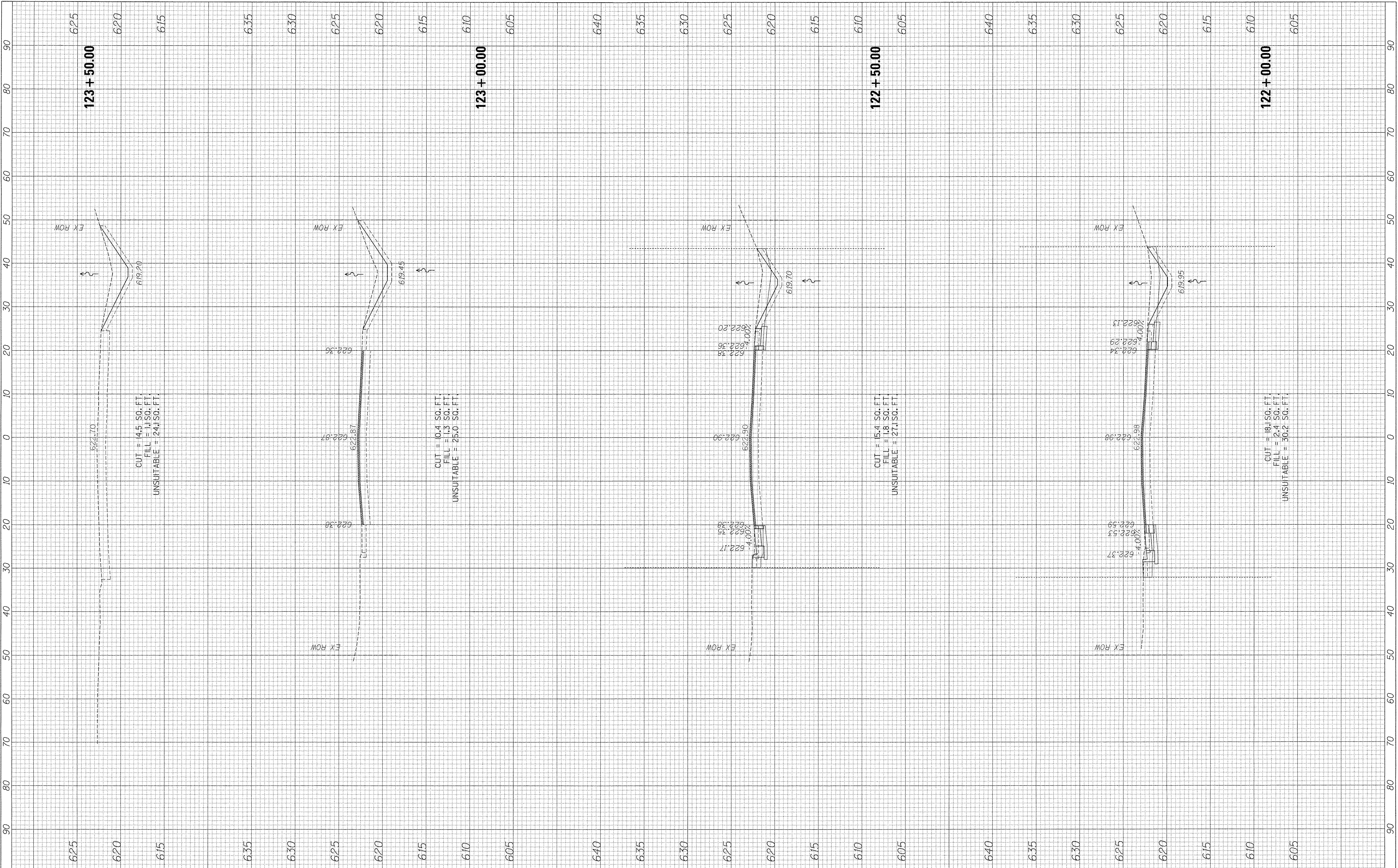
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	12-00194-00-CH	COOK	140	139
CONTRACT NO. 61C76				
ILLINOIS FED. AID PROJECT				

CH201021001.dwg (p.137) 2016.08.18 PM

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

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

FILE NAME = P:\60444110_9808_Mor-A_910_CAD\226 SHEETS\211212\6176.dwg



USER NAME = andy.becker
 PLOT SCALE = 10.0000' / 1"
 PLOT DATE = 12/12/2016

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. 122+00.00 TO STA. 123+50.00

RT. 41 (SKOKIE RD)
 CROSS SECTIONS

F.A.P. RTE. 350	SECTION 12-00194-00-04	COUNTY Cook	TOTAL SHEETS 140	SHEET NO. 140
CONTRACT NO. 61C76			ILLINOIS FED. AID PROJECT	

08/23/2016 11:20:58 AM