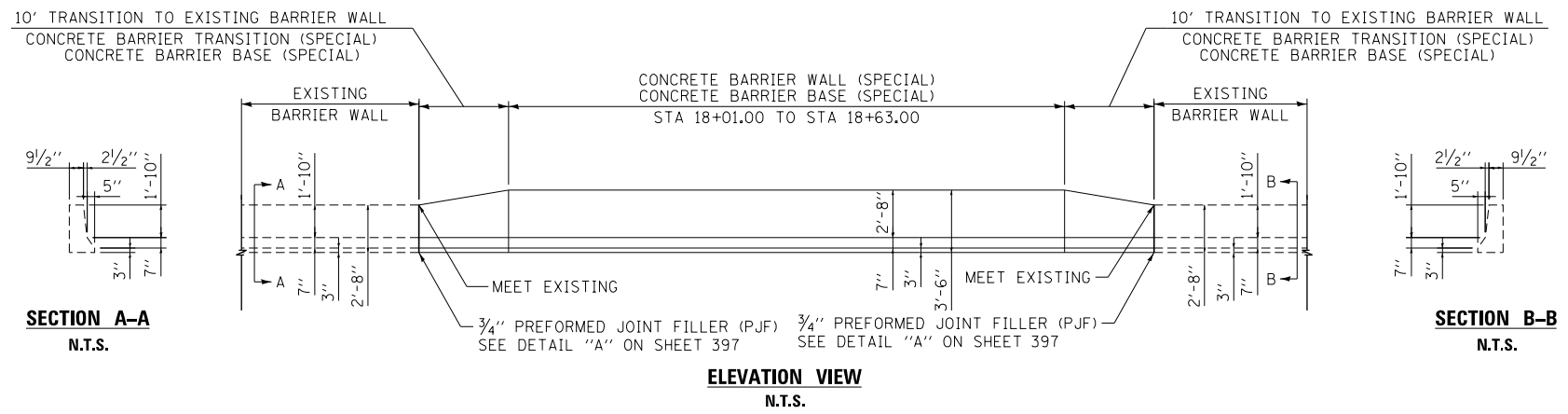
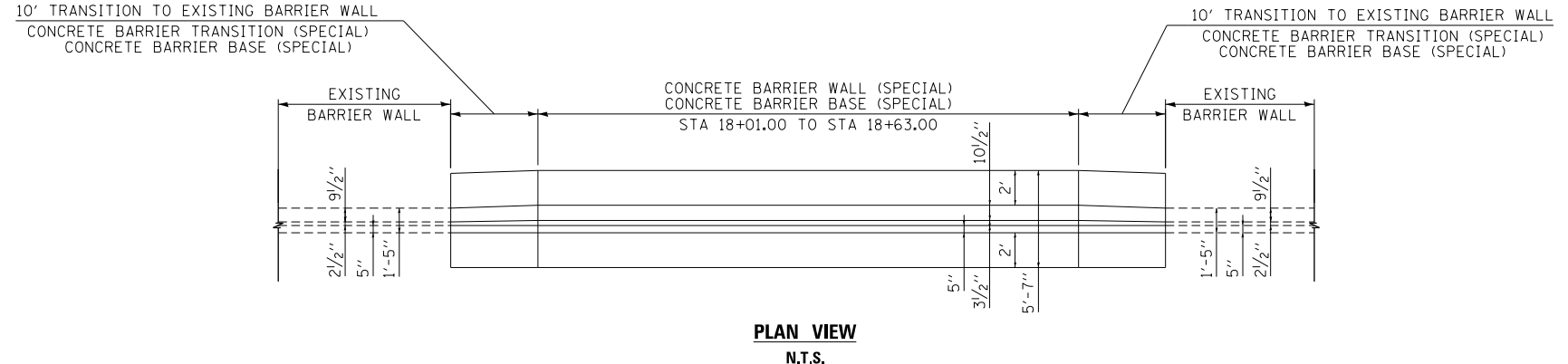
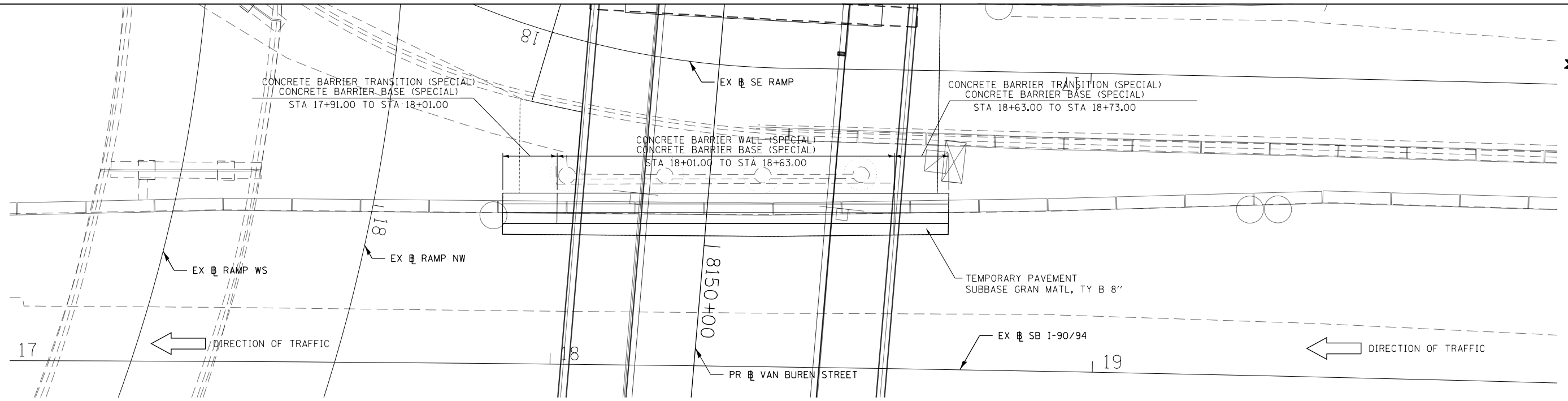


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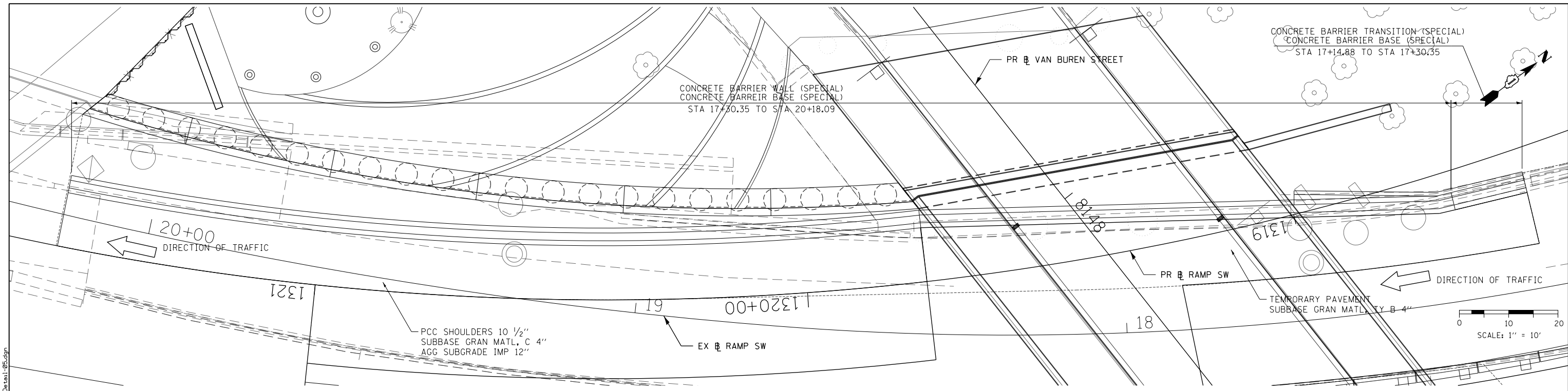
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS

SCALE: N.T.S. SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 401
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				



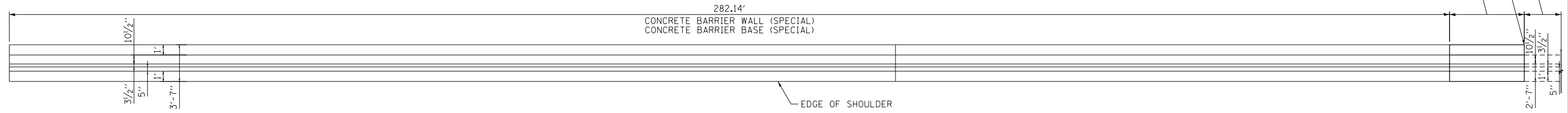
CONCRETE BARRIER TRANSITION (SPECIAL)
CONCRETE BARRIER BASE (SPECIAL)
STA 17+14.88 TO STA 17+30.35

CONCRETE BARRIER WALL (SPECIAL)
CONCRETE BARRIER BASE (SPECIAL)
STA 17+30.35 TO STA 20+18.09

120+00
DIRECTION OF TRAFFIC

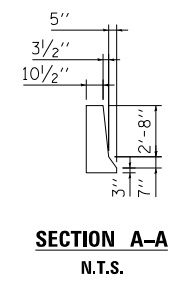
DIRECTION OF TRAFFIC

0 10 20
SCALE: 1" = 10'

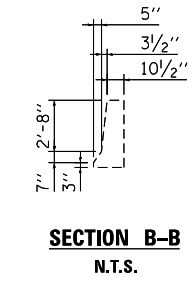


PLAN VIEW
N.T.S.

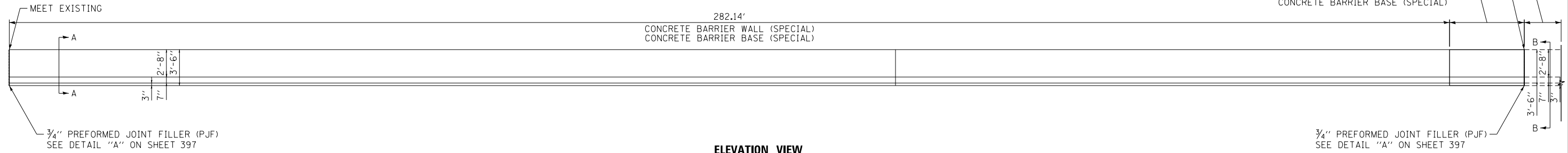
ELEVATION VIEW
N.T.S.



SECTION A-A
N.T.S.



SECTION B-B
N.T.S.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

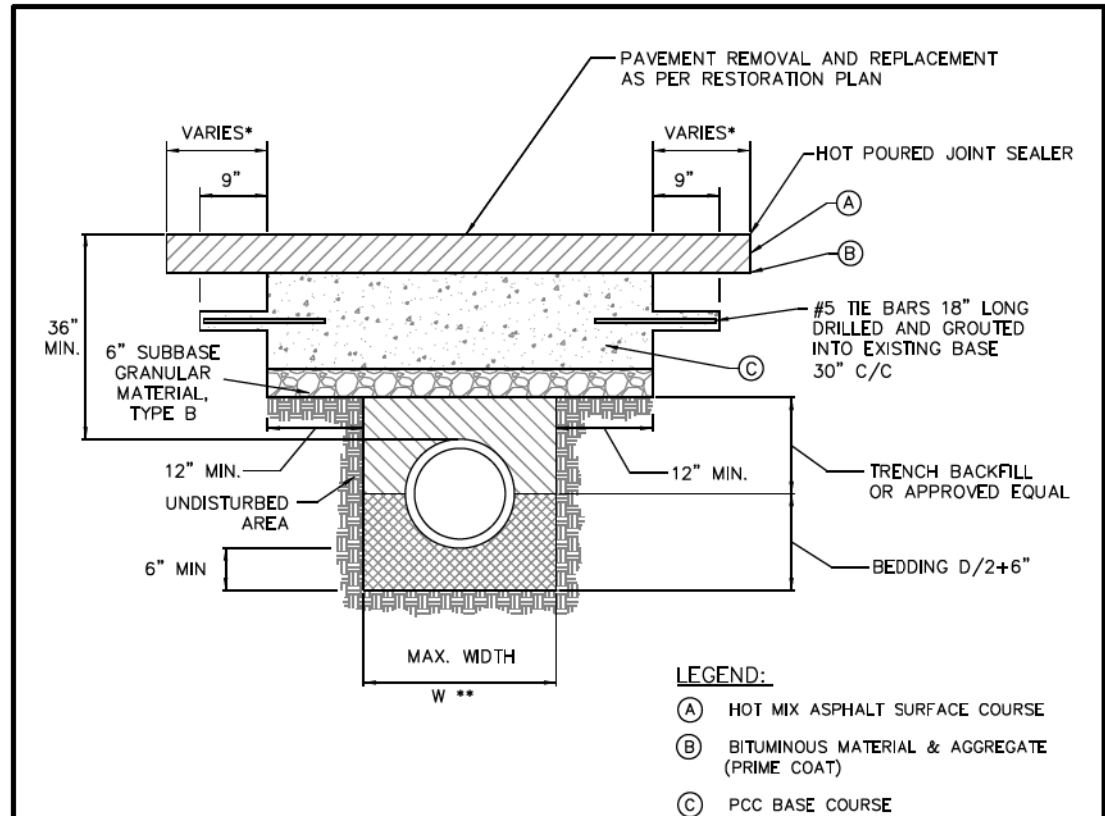
ROADWAY DETAILS

SCALE: N.T.S. SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	402
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

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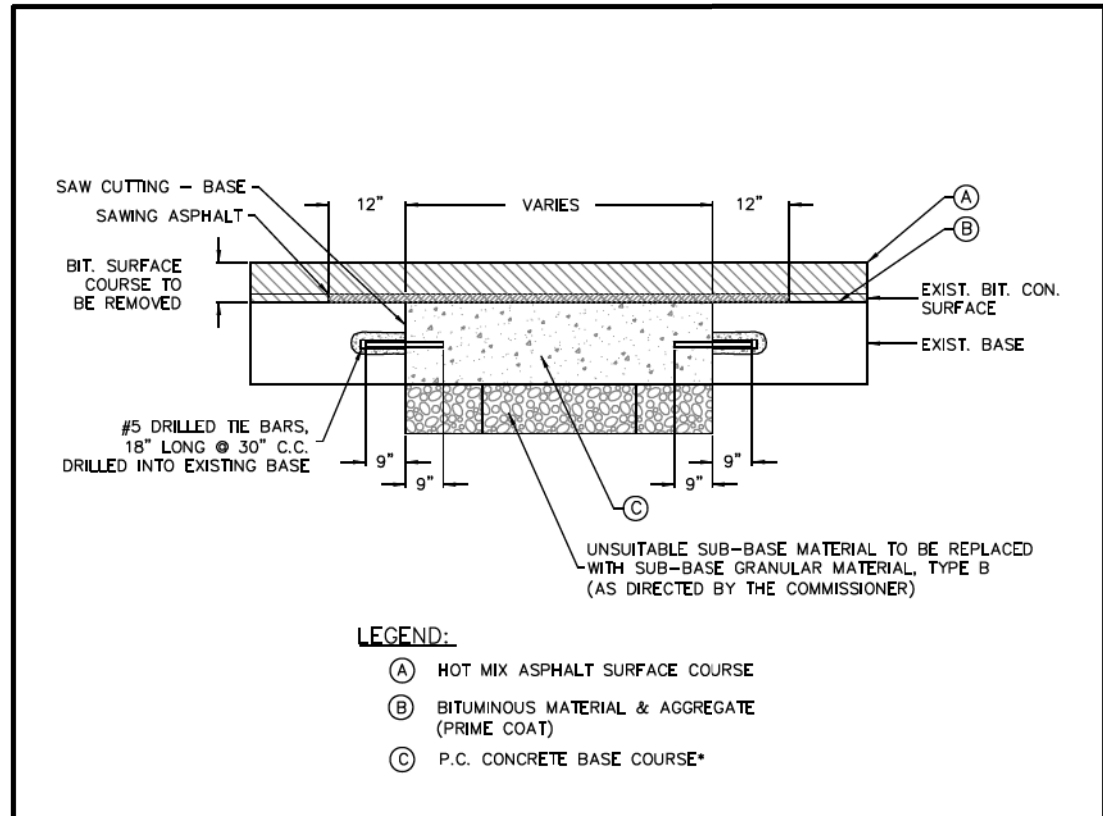
* PAVEMENT SHALL BE REMOVED & REPAVED TO NEAREST CONSTRUCTION JOINT IF TRENCH EDGE IS 5' OR LESS FROM JOINT. (OR AS REQUIRED BY THE COMMISSIONER)

** W = 9" + O.D. + 9", WHEN TRENCH DEPTH ≤ 5 FT.
W = 18" + O.D. + 18", WHEN TRENCH DEPTH > 5 FT.

NOTES:

1. THE PORTLAND CEMENT CONCRETE BASE SHALL BE 8" OR MORE (SEE TABLE 4.2-2 FOR REQUIRED THICKNESS). FOR CONCRETE STREETS THE CONCRETE SHALL BE BROUGHT TO GRADE (INCLUDING 1'-0" OVERLAP) AND FINISHED AS REQUIRED IN THE IDOT SSRBC.
2. ALL EXISTING PAVEMENTS SHALL BE SAW CUT 1'-0" ON BOTH SIDES OF THE TRENCH OR PAVEMENT OPENING. UNDER NO CIRCUMSTANCES SHOULD EXISTING PAVEMENT, WHICH HAS BEEN UNDERMINED OR OTHERWISE DISTURBED, BE LEFT IN PLACE AND NOT RESTORED.
3. ALL STREET PAVEMENT WILL REQUIRE PLACEMENT OF #5 TIE BARS, 18 INCHES LONG DRILLED AND GROUTED (NON SHRINK) AT 30" CENTERS ON ALL SIDES. A MINIMUM OF TWO TIE BARS WILL BE REQUIRED ON EACH SIDE OF SAW CUT BOUNDARIES.
4. ALL TIE BARS AND DOWEL BARS ARE TO BE EPOXY COATED (INCIDENTAL).

	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	STREET PAVEMENT RESTORATION DETAIL WITH TRENCH BACKFILL		
			DATE	SHEET	DRAWN BY
			12/12/06	A-2-2A	CDOT



* SEE TABLE 4.2-2 FOR REQUIRED THICKNESS OF P.C.C. BASE COURSE

NOTES:

1. THE PORTLAND CEMENT CONCRETE BASE SHALL BE 8" OR MORE (SEE TABLE 4.2-2 FOR REQUIRED THICKNESS). FOR CONCRETE STREETS THE CONCRETE SHALL BE BROUGHT TO GRADE (INCLUDING 1'-0" OVERLAP) AND FINISHED AS REQUIRED IN THE IDOT SSRBC.
2. ALL EXISTING PAVEMENTS SHALL BE SAW CUT 1'-0" ON BOTH SIDES OF THE TRENCH OR PAVEMENT OPENING. UNDER NO CIRCUMSTANCES SHOULD EXISTING PAVEMENT, WHICH HAS BEEN UNDERMINED OR OTHERWISE DISTURBED, BE LEFT IN PLACE AND NOT RESTORED.
3. ALL STREET PAVEMENT WILL REQUIRE PLACEMENT OF #5 TIE BARS, 18 INCHES LONG DRILLED AND GROUTED (NON SHRINK) AT 30" CENTERS ON ALL SIDES. A MINIMUM OF TWO TIE BARS WILL BE REQUIRED ON EACH SIDE OF SAW CUT BOUNDARIES.
4. ALL TIE BARS AND DOWEL BARS ARE TO BE EPOXY COATED (INCIDENTAL).

	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	PAVEMENT PATCHING AND PORTLAND CEMENT CONCRETE REPLACEMENT		
			DATE	SHEET	DRAWN BY
			01/11/07	A-2-2C	CDOT

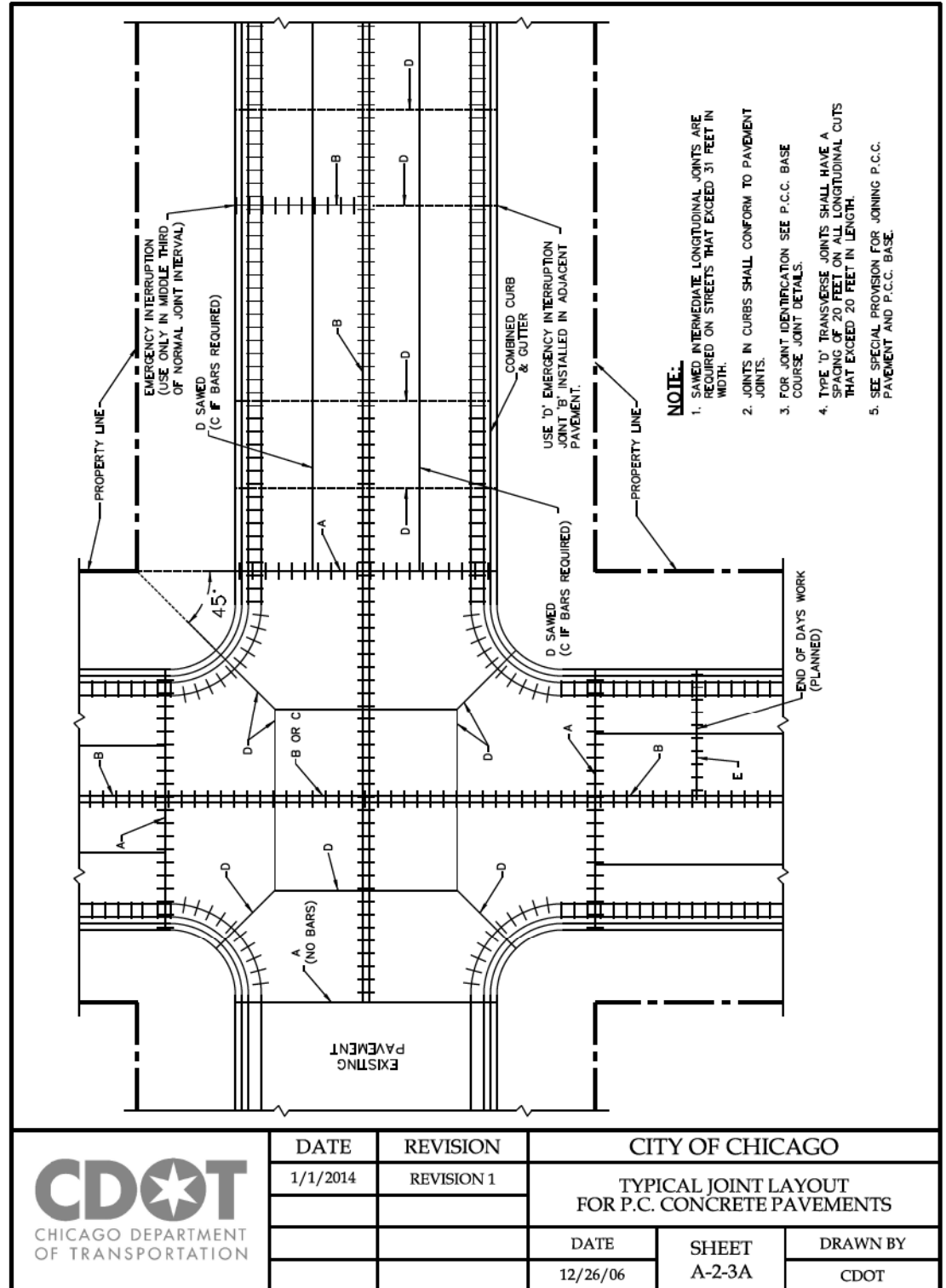


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PLOT DATE = 12/15/2016	DATE -	12/14/16	REVISED -	

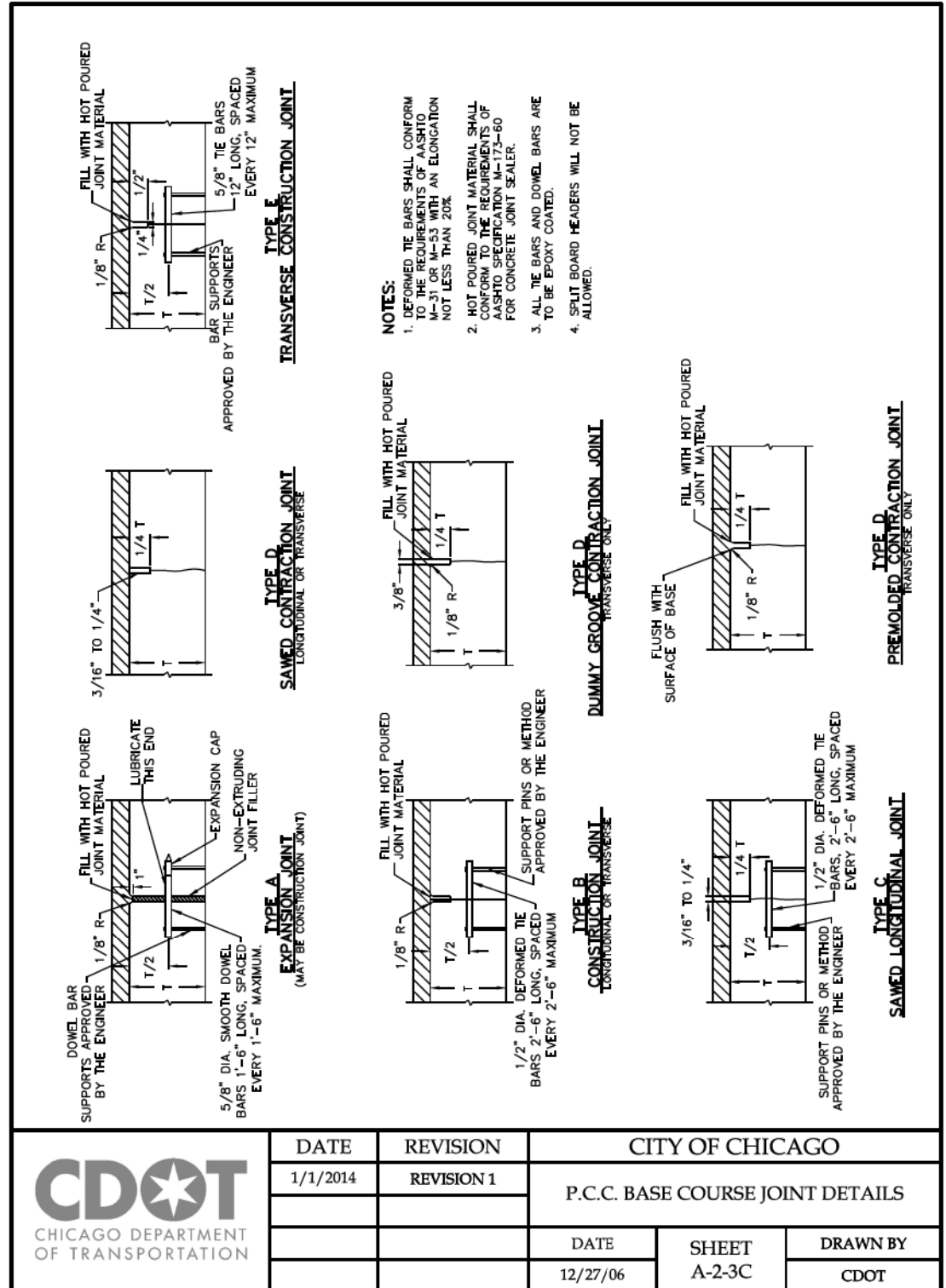
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF TRANSPORTATION STANDARDS			
SCALE: N.T.S.	SHEET 1 OF 7 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	403
CONTRACT NO. 60X99				ILLINOIS FED. AID PROJECT



 CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	TYPICAL JOINT LAYOUT FOR P.C. CONCRETE PAVEMENTS		
	DATE	SHEET	DRAWN BY		
	12/26/06	A-2-3A	CDOT		



 CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	P.C.C. BASE COURSE JOINT DETAILS		
	DATE	SHEET	DRAWN BY		
	12/27/06	A-2-3C	CDOT		



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PLOT DATE = 12/15/2016

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CHECKED - CDOT	REVISED -
DATE - 12/14/16	REVISED -

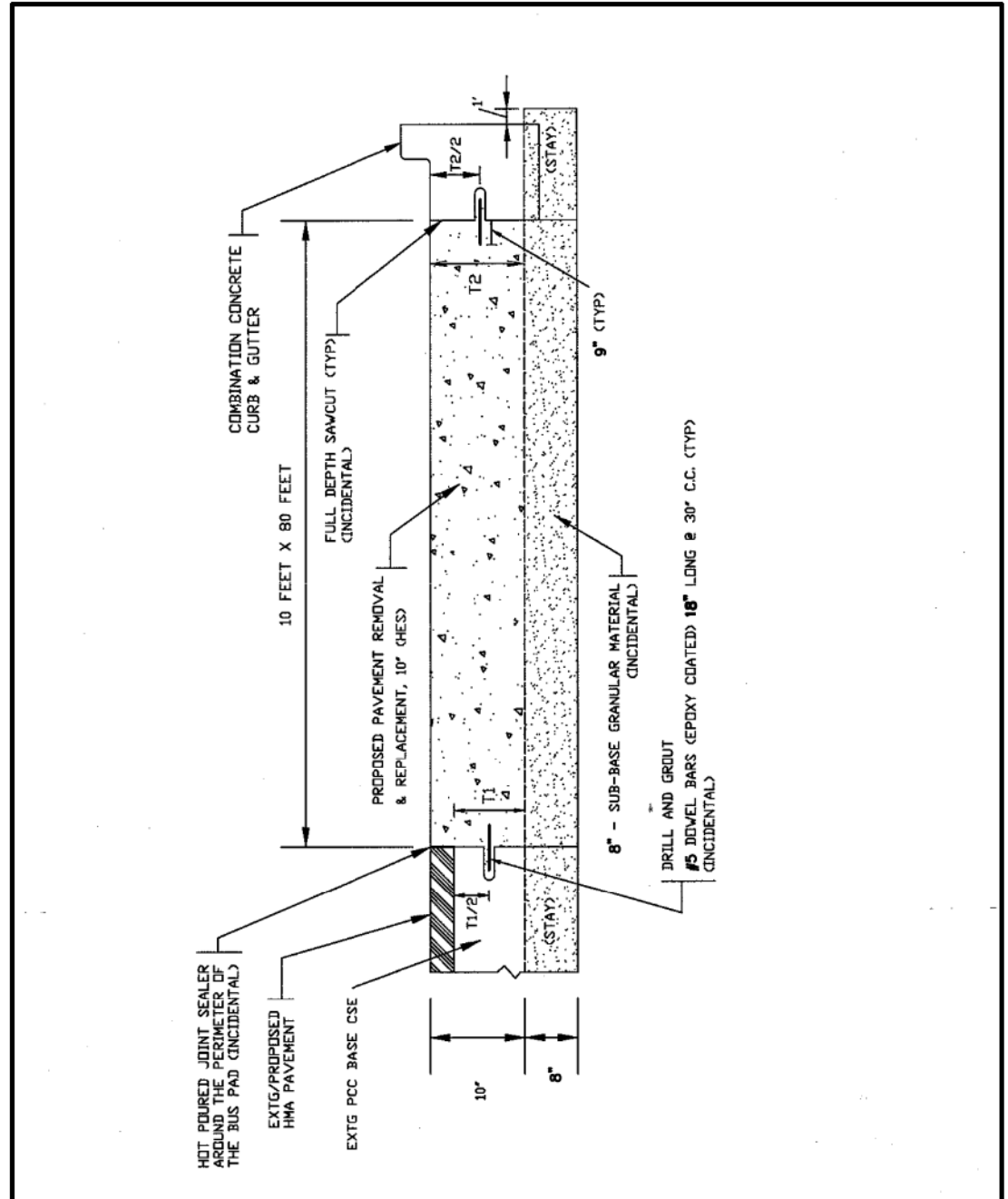
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF TRANSPORTATION
STANDARDS

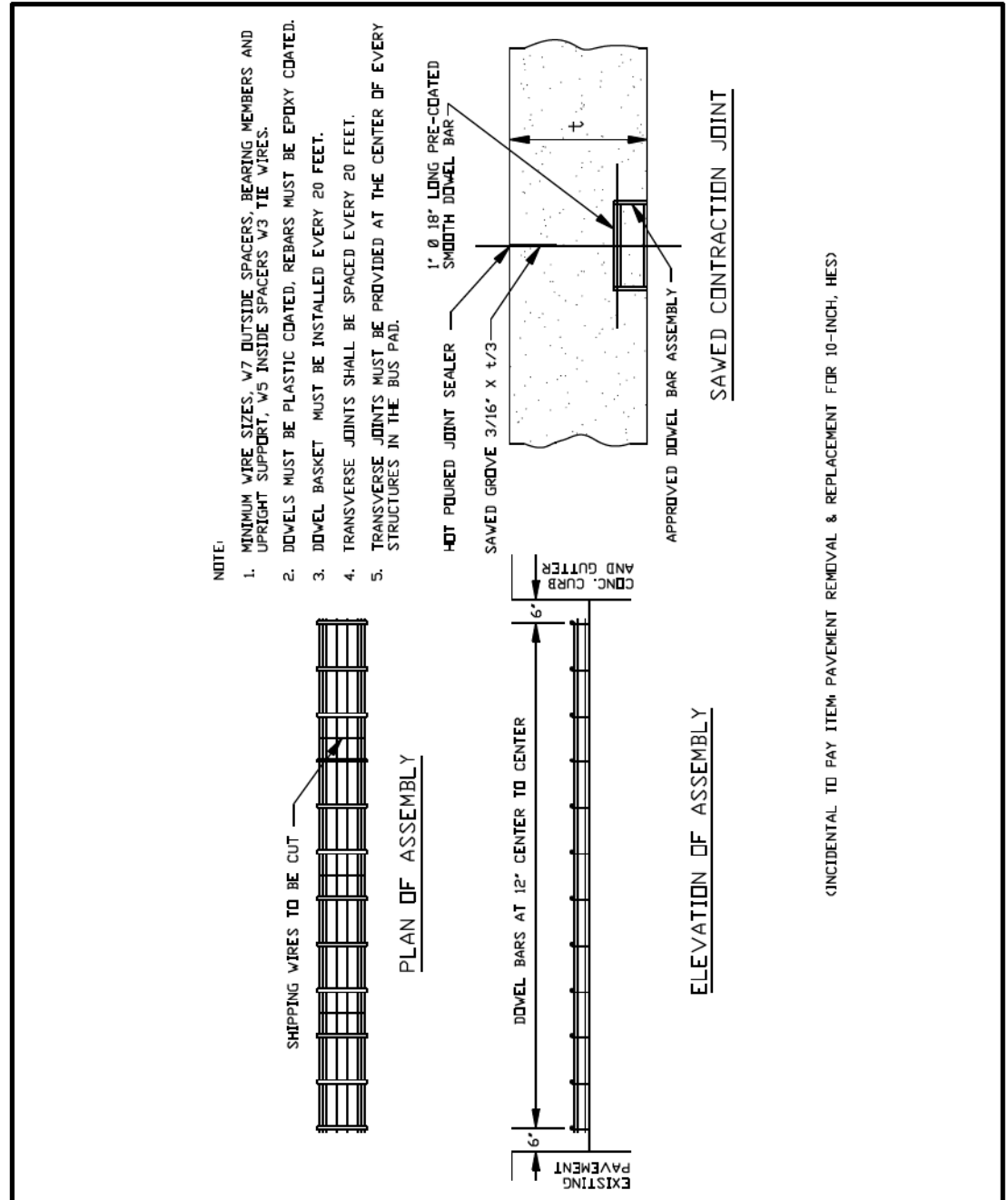
SCALE: N.T.S. SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	404
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

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 CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
			PROPOSED 10" BUS PAD PAVEMENT		
	DATE	SHEET	DRAWN BY		
	1/1/14	A-2-3D	CDOT		



 CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
			CONTRACTION JOINT ASSEMBLY FOR BUS PAD		
	DATE	SHEET	DRAWN BY		
	1/1/14	A-2-3F	CDOT		



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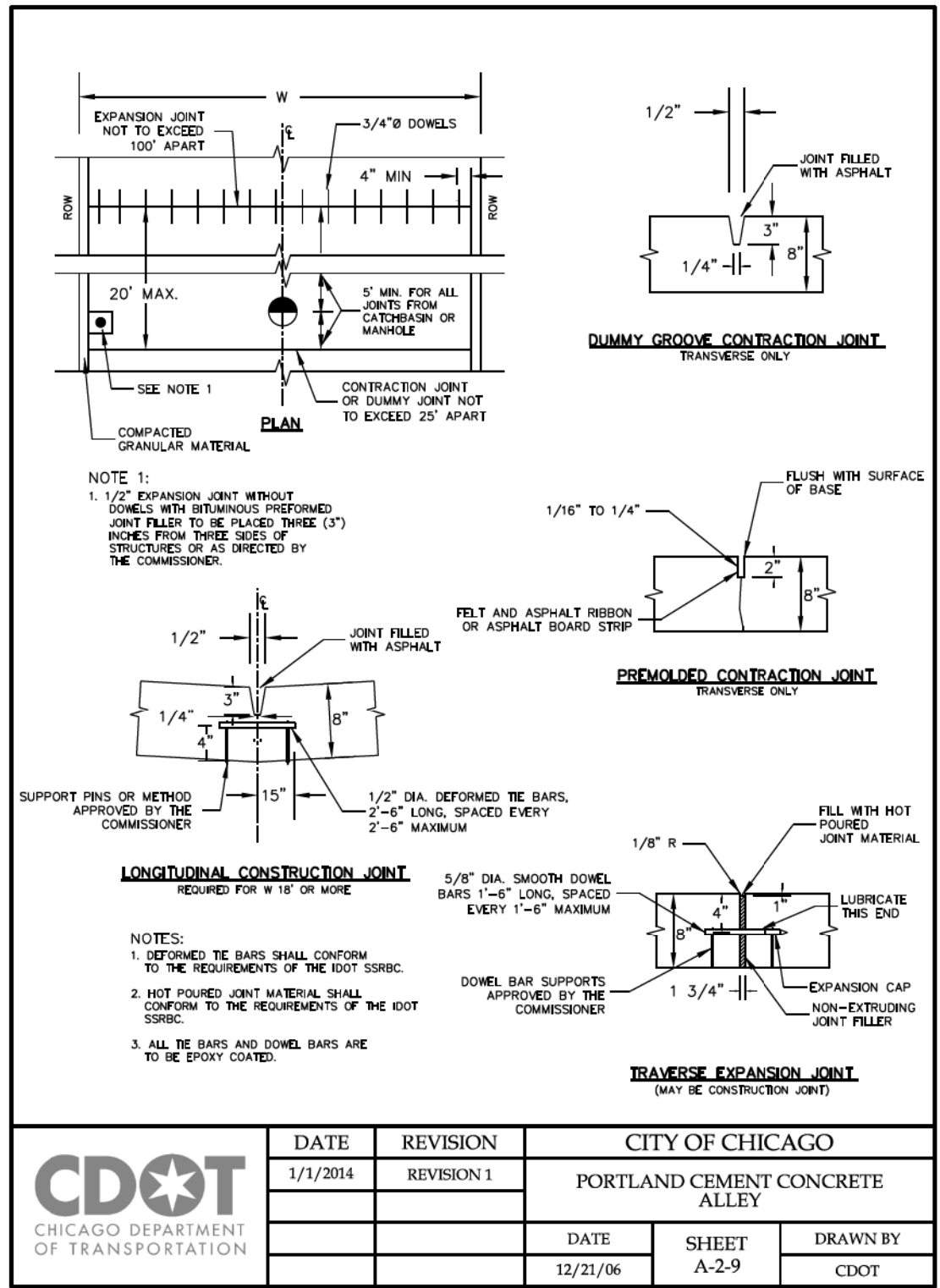
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF TRANSPORTATION STANDARDS			
SCALE: N.T.S.	SHEET 3 OF 7 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	405
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

CINCIDENTAL TO PAY ITEM: PAVEMENT REMOVAL & REPLACEMENT FOR 10-INCH, HES)

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DATE		REVISION	CITY OF CHICAGO		
1/1/2014		REVISION 1	PORTLAND CEMENT CONCRETE ALLEY		
DATE		SHEET	DRAWN BY		
12/21/06		A-2-9	CDOT		



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PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

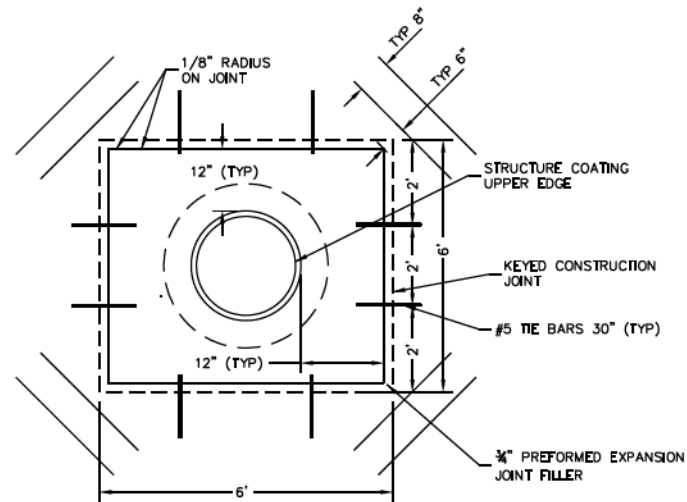
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF TRANSPORTATION STANDARDS			
SCALE: N.T.S.	SHEET 4 OF 7 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	406
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

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2-#4 DEFORMED TIE BARS 30" LONG AT A MID DEPTH (TYPICAL) SEE SPECIAL CONDITION BELOW.



SPECIAL CONDITIONS:

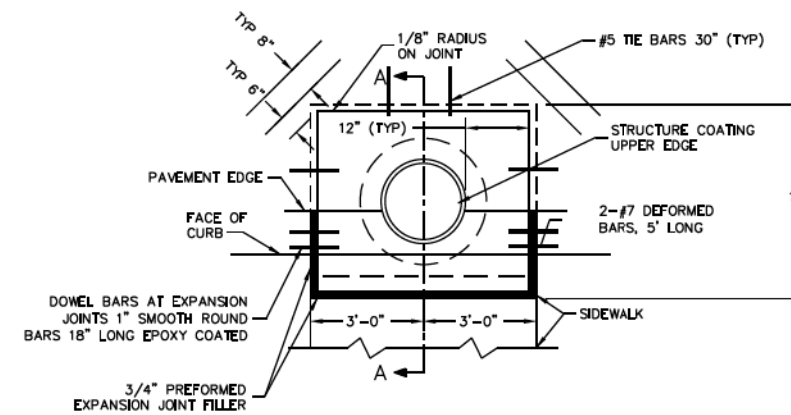
TIE BARS SHALL NOT BE INSTALLED AT ISOLATION BOX CORNERS WHERE EITHER SIDE OF THE BOX FORMING SAID CORNER IS A LONGITUDINAL OR TRAVERSE JOINT. MOREOVER, AT NO TIME SHALL A TIE BAR CROSS A JOINT (ALREADY FORMED OR PROPOSED) IN THE VICINITY OF THE ISOLATION BOX. IF THIS SITUATION OCCURS, THE TIE BAR SHALL BE ADJUSTED PARALLEL TO THE AXIS OF THE BAR SO THAT THE END OF THE BAR IS NO CLOSER THAN 1 1/2" TO THE JOINT.

ONLY BY THE DIRECTION OR APPROVAL OF THE COMMISSIONER SHALL THE DISTANCE BETWEEN THE UPPER EXTERNAL CASTING EDGE AND THE EDGE OF STANDARD ISOLATION BOX, SHOWN AS 12", BE INCREASED SO THAT AN IMMOVABLE LONGITUDINAL JOINT AND (OR) TRAVERSE JOINT WILL THEN FORM (O) SIDE (S) OF THE BOX. THIS ADJUSTMENT WILL BE ALLOWED ONLY WHEN THE DISTANCE BETWEEN THE SIDE OF THE STANDARD ISOLATION BOX AND IMMOVABLE JOINT IS 18" OR LESS.

BACKFILL MATERIAL AROUND STRUCTURE WILL BE COMPACTED TO 95% MODIFIED PROCTOR PRIOR TO THE PLACEMENT OF CONCRETE WITHIN THE ISOLATION BOX.

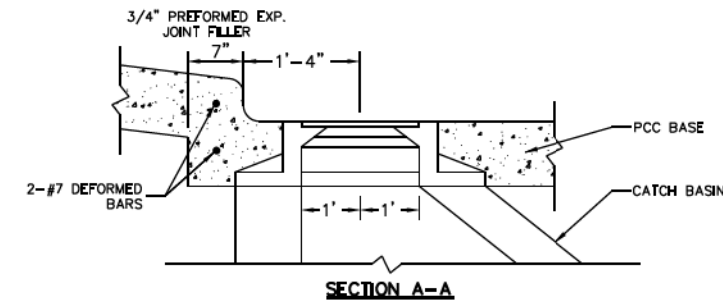


DATE	REVISION	CITY OF CHICAGO		
1/1/2014	REVISION 1	DETAILS OF STRUCTURE CASTING ISOLATION BOX		
		DATE	SHEET	DRAWN BY
		12/21/06	A-2-10A	CDOT



NOTES:

- STRUCTURE CASTING MAY BE ROUND OR RECTANGULAR.
- CONCRETE WITHIN THE ISOLATION BOX WILL BE OF THE SAME TYPE AND THICKNESS AS CONCRETE IN THE ADJACENT PAVEMENT.



DATE	REVISION	CITY OF CHICAGO		
1/1/2014	REVISION 1	DETAILS OF STRUCTURE CASTING ISOLATION BOX FOR P.C.C. PAVEMENT AND BASE COURSE		
		DATE	SHEET	DRAWN BY
		12/22/06	A-2-10B	CDOT



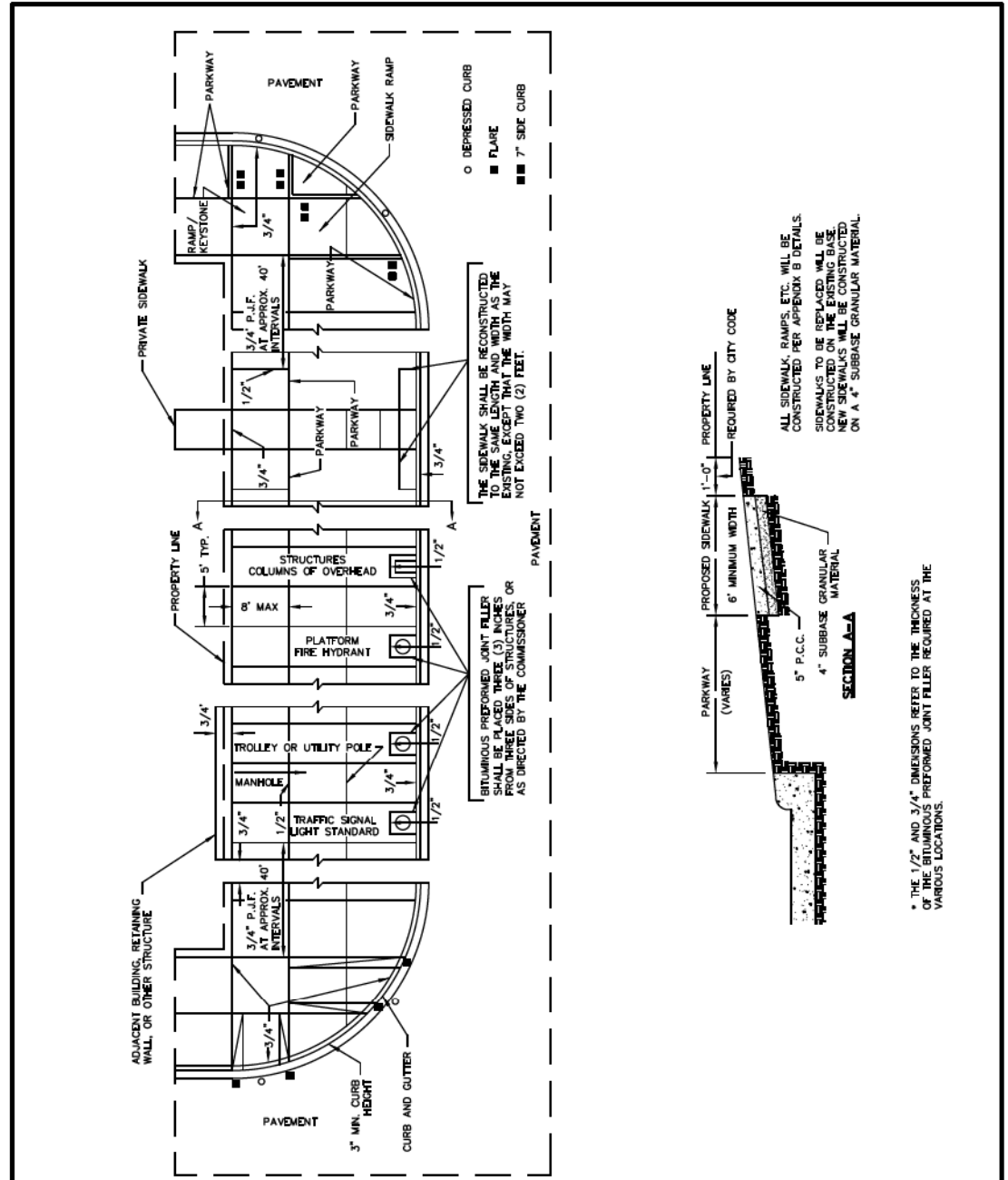
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PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF TRANSPORTATION
STANDARDS
SCALE: N.T.S. SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	407
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

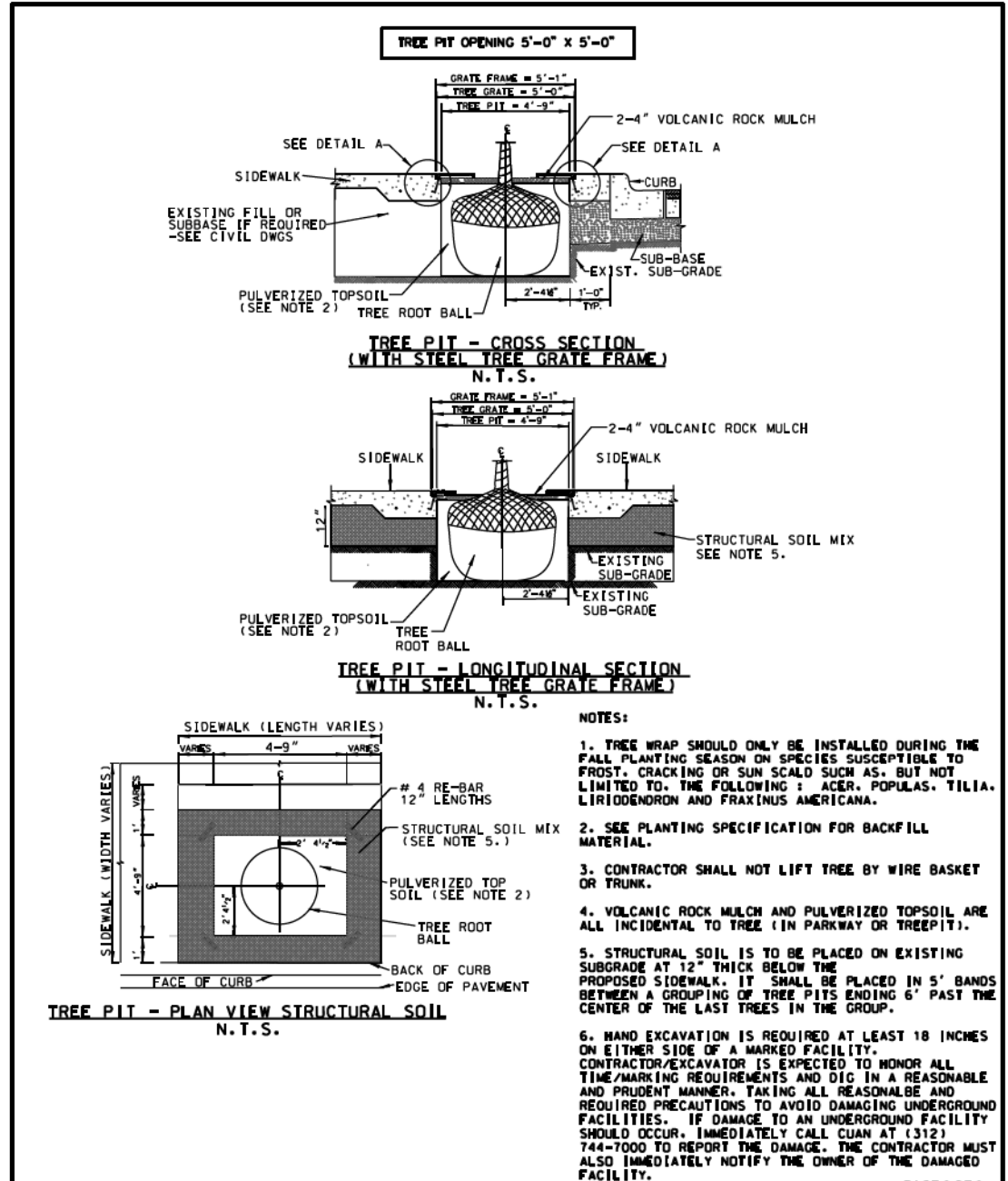
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	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	DETAILS OF PORTLAND CEMENT CONCRETE CONSTRUCTION		
	DATE	SHEET	DRAWN BY		
	12/22/06	A-3-2	CDOT		

ALL SIDEWALKS, RAMPS, ETC. WILL BE CONSTRUCTED PER APPENDIX B DETAILS. SIDEWALKS TO BE REPLACED WILL BE CONSTRUCTED ON THE EXISTING BASE. NEW SIDEWALKS WILL BE CONSTRUCTED ON A 4\"/>

* THE 1/2\"/>



	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	TREE PIT DETAIL		
	DATE	SHEET	DRAWN BY		
	01/03/07	A-5-2A	CDOT		

- NOTES:
- TREE WRAP SHOULD ONLY BE INSTALLED DURING THE FALL PLANTING SEASON ON SPECIES SUSCEPTIBLE TO FROST, CRACKING OR SUN SCALD SUCH AS, BUT NOT LIMITED TO, THE FOLLOWING: ACER, POPULAS, TILIA, LIRIODENDRON AND FRAXINUS AMERICANA.
 - SEE PLANTING SPECIFICATION FOR BACKFILL MATERIAL.
 - CONTRACTOR SHALL NOT LIFT TREE BY WIRE BASKET OR TRUNK.
 - VOLCANIC ROCK MULCH AND PULVERIZED TOPSOIL ARE ALL INCIDENTAL TO TREE (IN PARKWAY OR TREEPIT).
 - STRUCTURAL SOIL IS TO BE PLACED ON EXISTING SUBGRADE AT 12\"/>
- PAGE 2 OF 2



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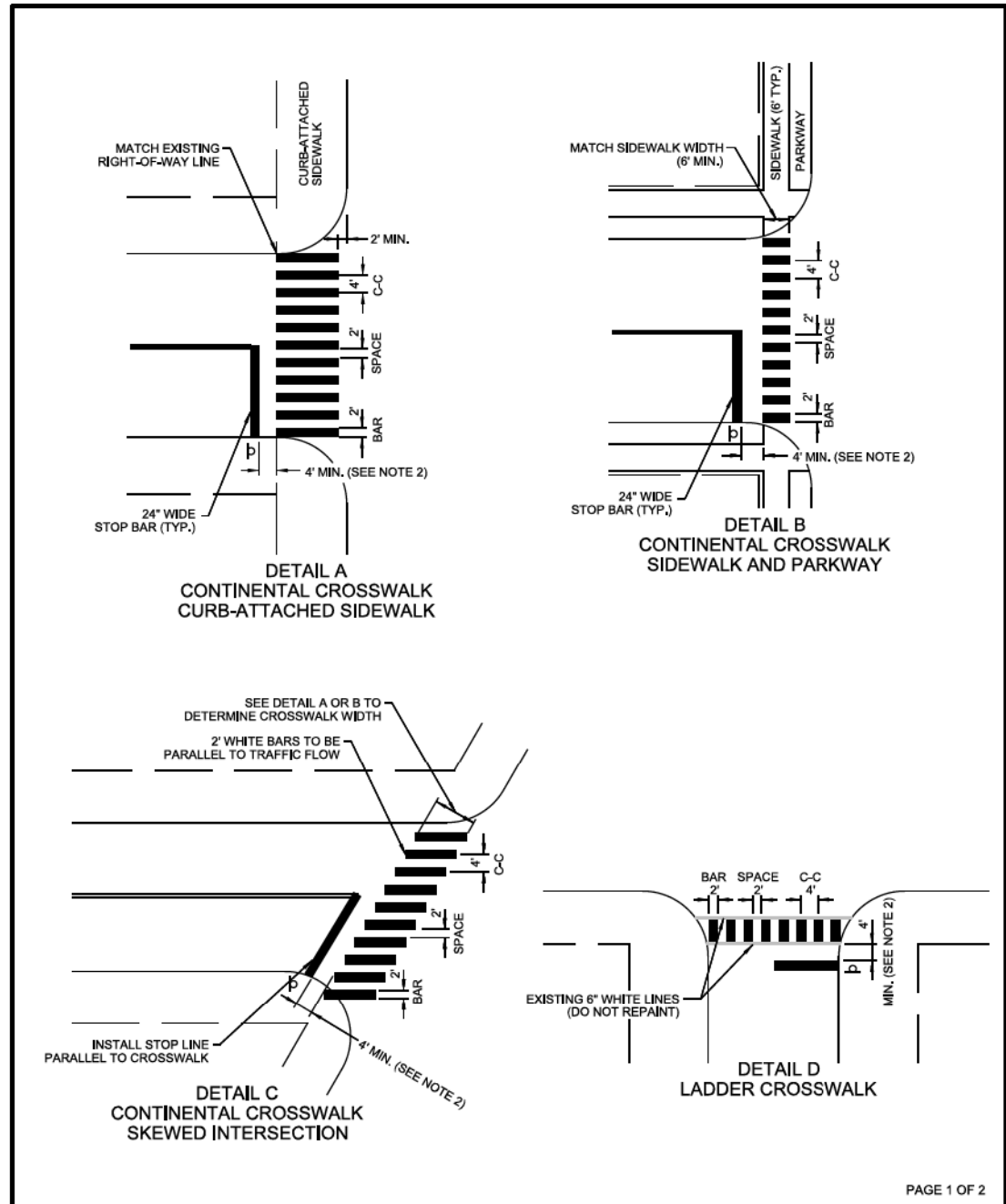
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF TRANSPORTATION
STANDARDS

SCALE: N.T.S. SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	408
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

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PAGE 1 OF 2

	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	CROSSWALK MARKING DETAIL		
			DATE	SHEET	DRAWN BY
			06/25/12	A-7-1A	CDOT



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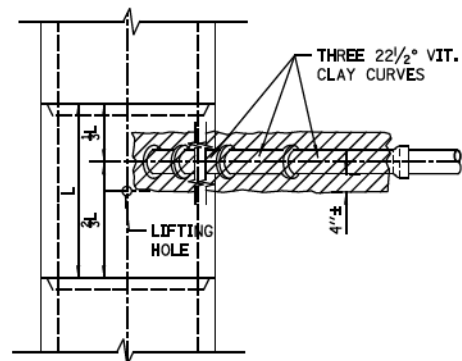
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

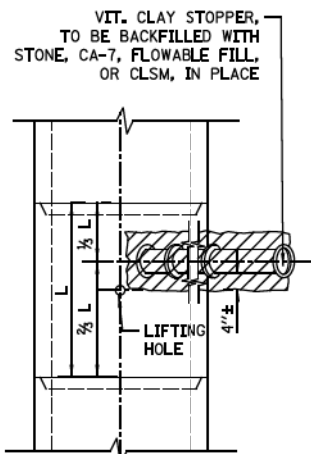
CHICAGO DEPARTMENT OF TRANSPORTATION
 STANDARDS

SCALE: N.T.S. SHEET 7 OF 7 SHEETS STA. TO STA.

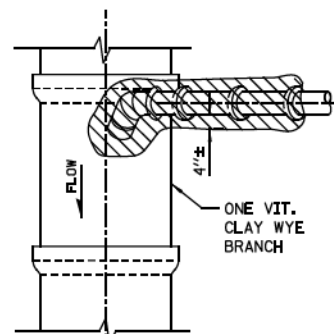
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	409
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	



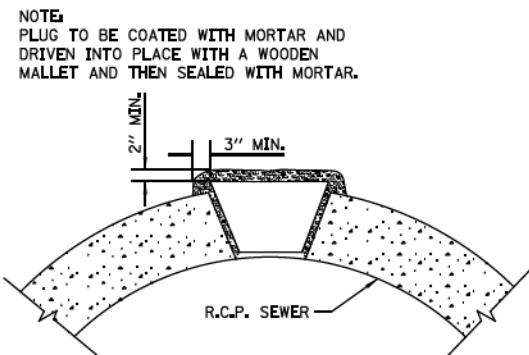
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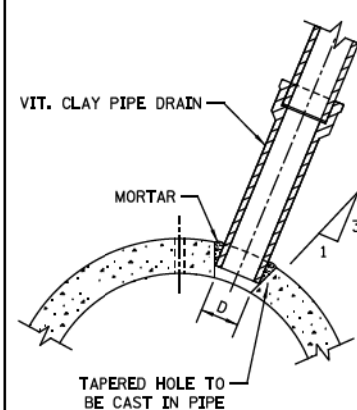
PLAN



PLAN

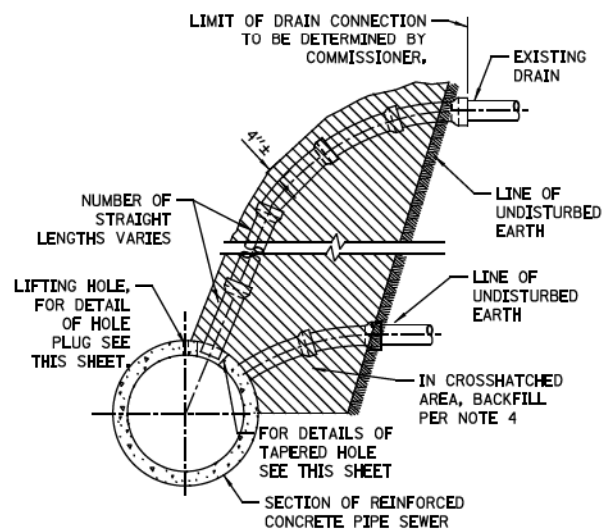


LIFTING HOLE PLUG DETAIL FOR CONCRETE PIPE

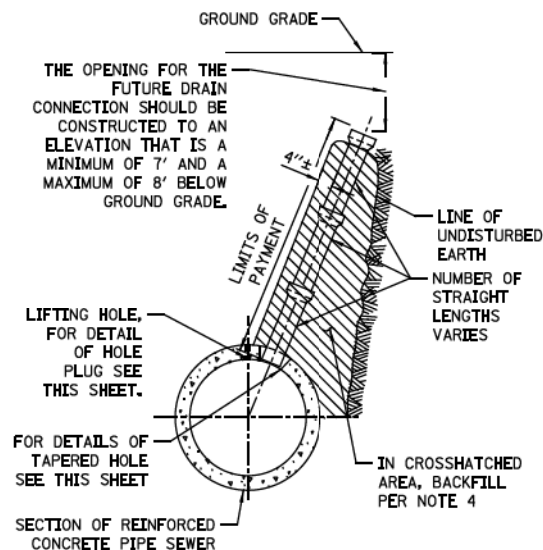


DETAIL OF TAPERED HOLE

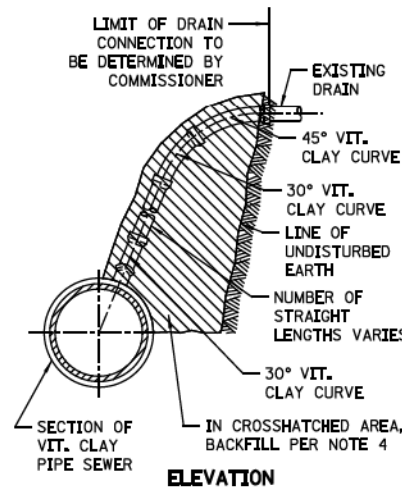
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6"	6 7/8"
8"	9 1/8"
10"	11 1/8"
12"	13 1/2"
15"	17"
18"	20 1/4"
21"	23 3/8"



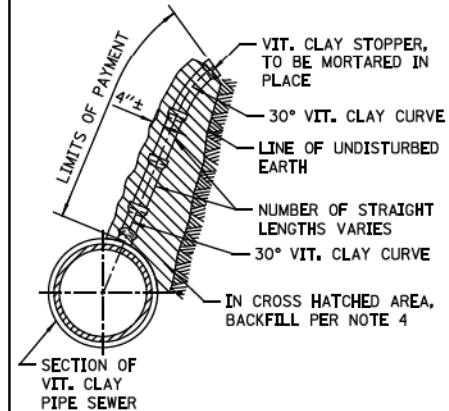
TYPICAL DRAIN CONNECTIONS FOR EXISTING DRAINS



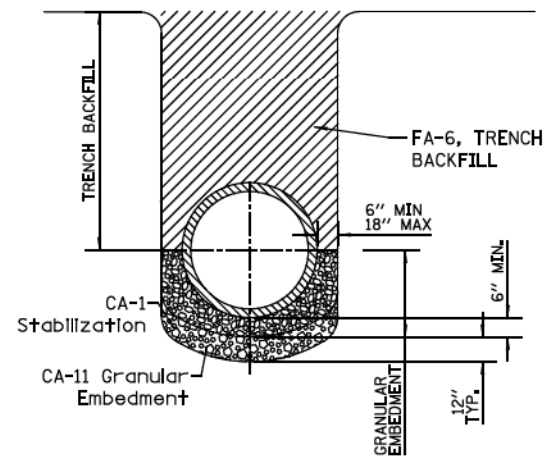
TYPICAL DRAIN STACKS FOR FUTURE USE



TYPICAL DRAIN CONNECTIONS FOR EXISTING DRAINS



TYPICAL DRAIN STACKS FOR FUTURE USE



NOTE:
 1. FOR TRENCH BACKFILL, USE FA-6 SAND, CRUSHED CONCRETE SAND OR STONE SAND.
 2. FOR GRANULAR EMBEDMENT, USE CA-11, CRUSHED GRAVEL, CRUSHED STONE, OR CRUSHED CONCRETE.
 3. 12" OF CA-1 STONE IS ONLY REQUIRED WHEN UNSTABLE MATERIAL IS ENCOUNTERED AT TRENCH BOTTOM.

SEWER TRENCH DETAIL

NOTES:

- ALL DRAIN CONNECTION JOINTS MUST BE MADE AS SPECIFIED IN SPECIFICATIONS..
- FOR DUCTILE IRON PIPE DRAIN CONNECTIONS SEE SHEET NO. A.2.
- FOR ALL GRANULAR EMBANKMENT, USE CA-7 OR CA-11
- FOR BACKFILL OF HATCHED SUPPORT AREAS, USE CONCRETE, CA-11, FLOWABLE FILL, OR CLSM.

STANDARD REVISIONS	
DATE	DESCRIPTION
2/24/15	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES		DESIGNED BY DRAWN BY CHECKED BY DATE	SCALE A.1
VITRIFIED CLAY PIPE DRAIN CONNECTIONS			

#FILE#
#DATE#

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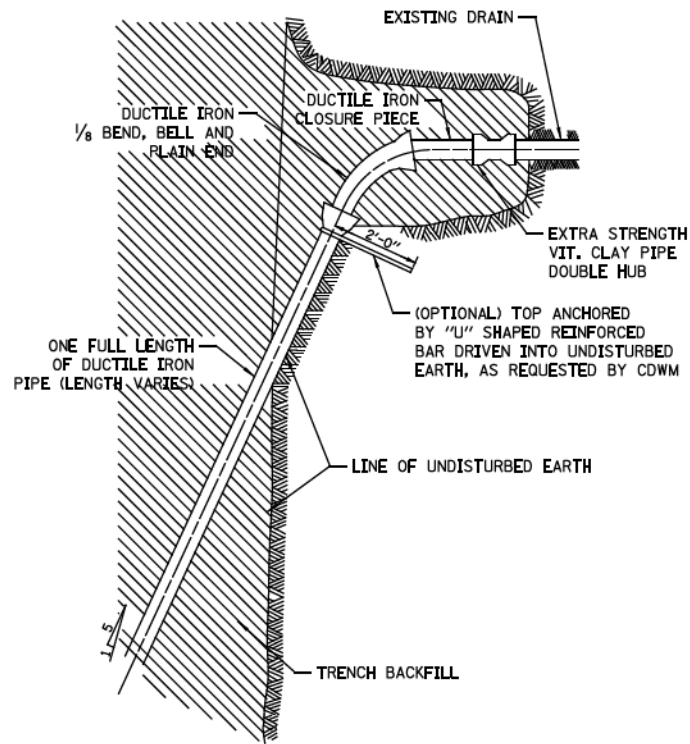
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

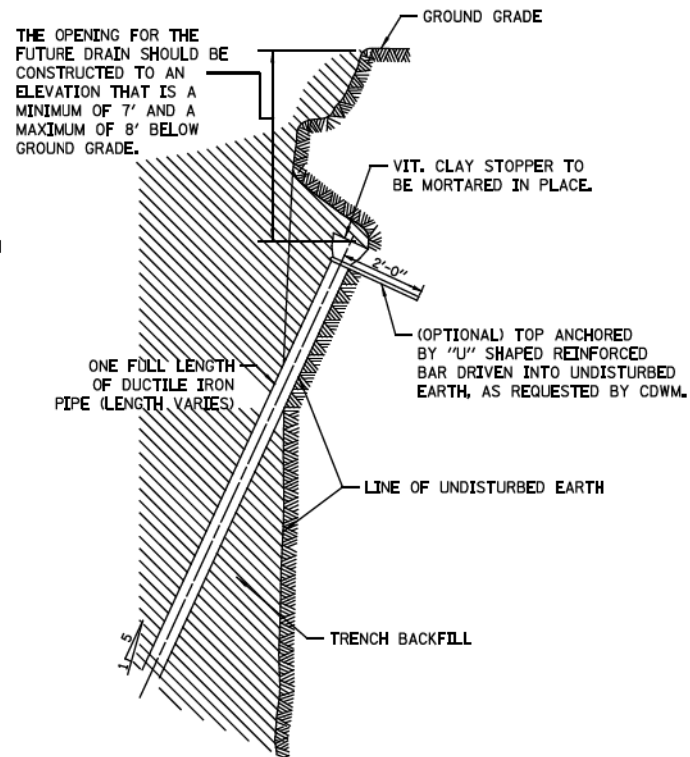
DRAINAGE DETAILS
 CHICAGO DEPARTMENT OF WATER MANAGEMENT

SCALE: N.T.S. SHEET 1 OF 9 SHEETS STA. TO STA.

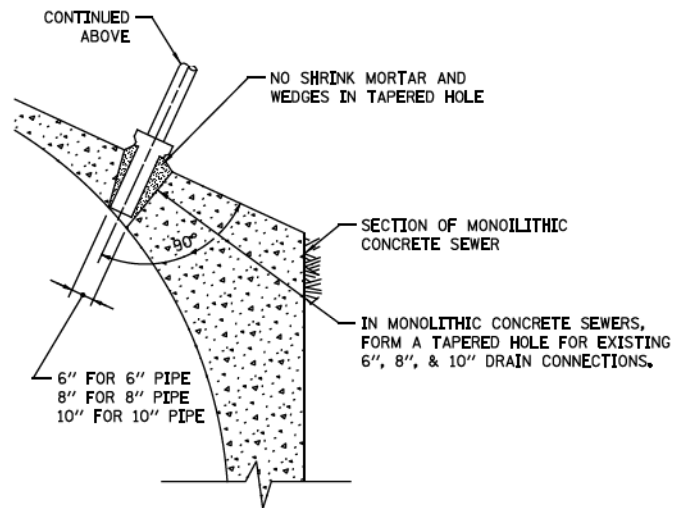
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 ILLINOIS FED. AID PROJECT CONTRACT NO. 60X99



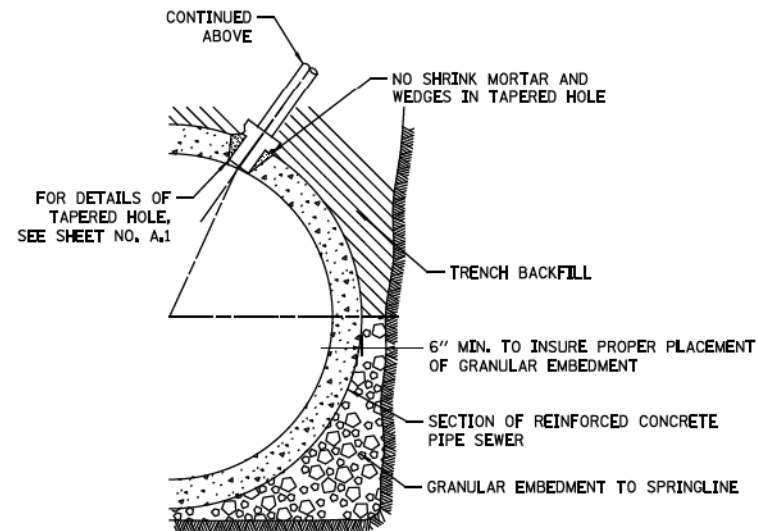
TYPICAL DRAIN CONNECTIONS FOR EXISTING DRAINS



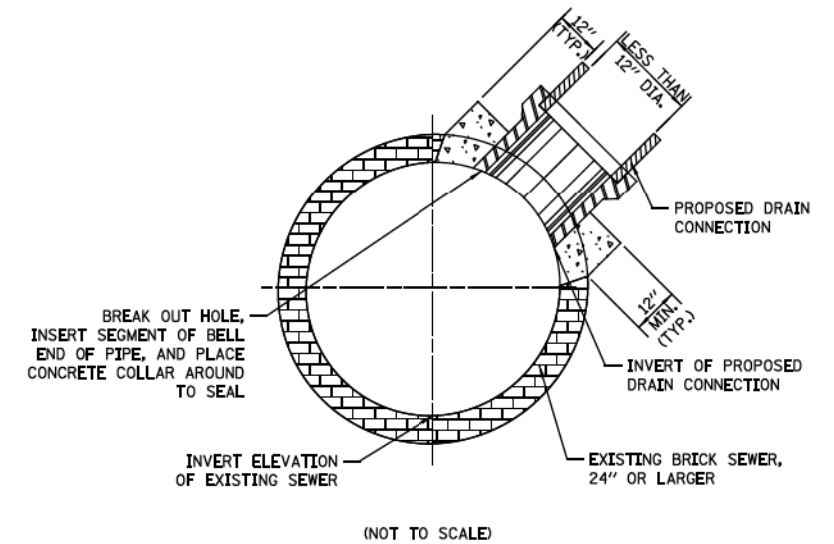
TYPICAL DRAIN STACKS FOR FUTURE USE



FOR MONOLITHIC CONCRETE SEWERS



FOR REINFORCED CONCRETE PIPE SEWERS



FOR BRICK SEWERS

- NOTES:
1. DUCTILE IRON PIPE MUST BE BELL END WITH PUSH-ON JOINTS CONFORMING TO ANSI SPECIFICATIONS A21.51 WITH CLASS 52 THICKNESS.
 2. CONNECTIONS AND STACKS SHOWN MUST BE USED FOR 6", 8", & 10" DRAINS ONLY.
 3. FOR VITRIFIED CLAY PIPE DRAIN CONNECTION AND DRAIN STACK CONSTRUCTION, SEE SHEET NO. A.1.
 4. FOR ALL GRANULAR EMBANKMENT, USE CA-7 OR CA11.

DUCTILE IRON PIPE DRAIN CONNECTIONS

BRICK SEWER DRAIN CONNECTIONS

STANDARD REVISIONS	
DATE	DESCRIPTION
1/22/14	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
75	
90	
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BULLETIN	

CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES		DRAWN: <input type="checkbox"/> CHECKED: <input type="checkbox"/> REVIEWED: <input type="checkbox"/>	A.2
DUCTILE IRON PIPE DRAIN CONNECTIONS			

\$FILE\$
\$DATE\$

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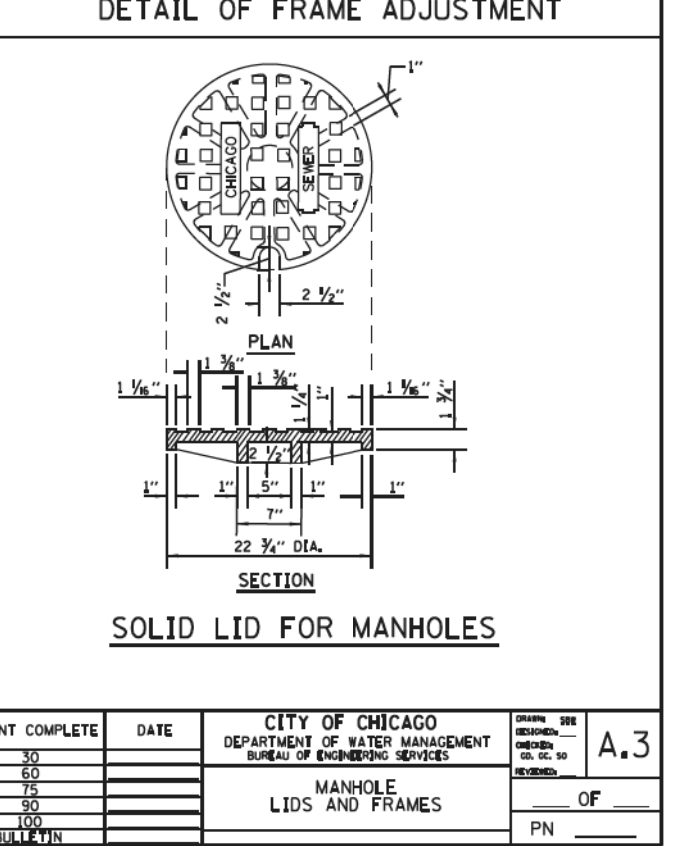
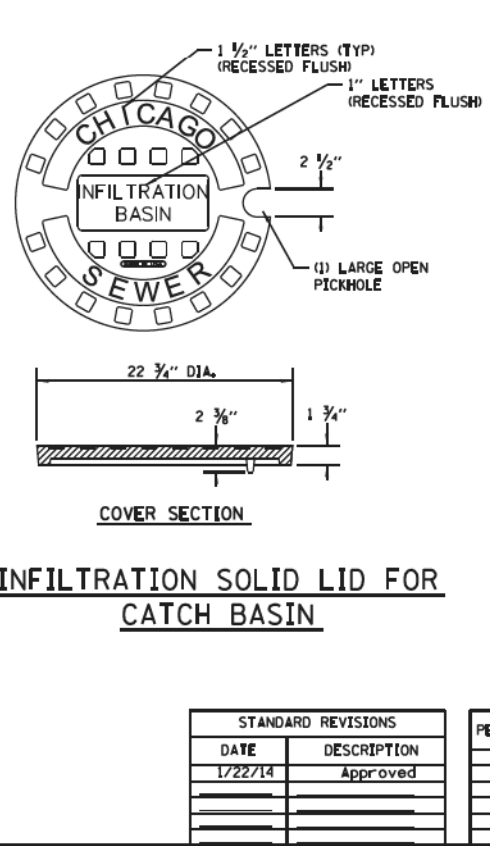
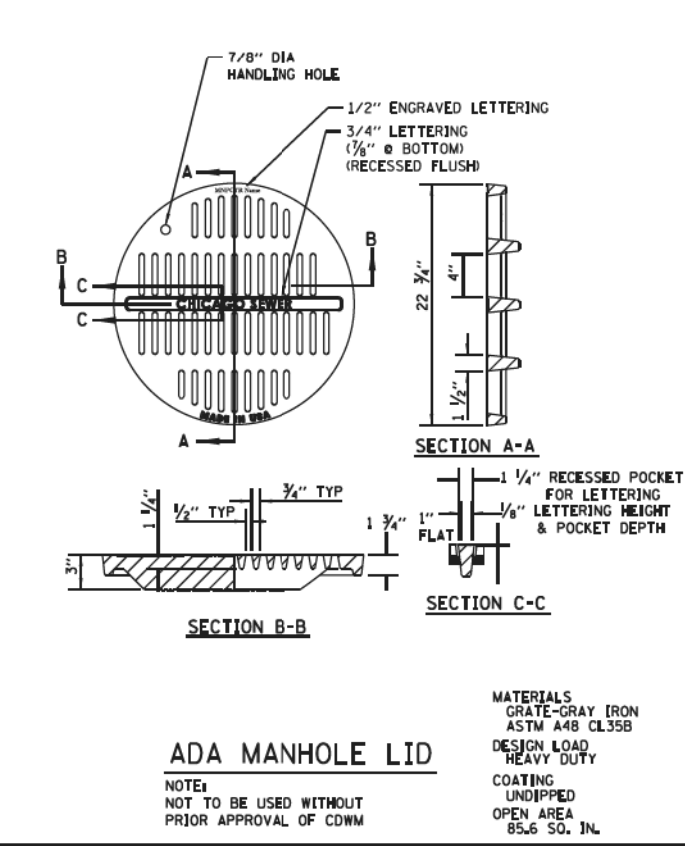
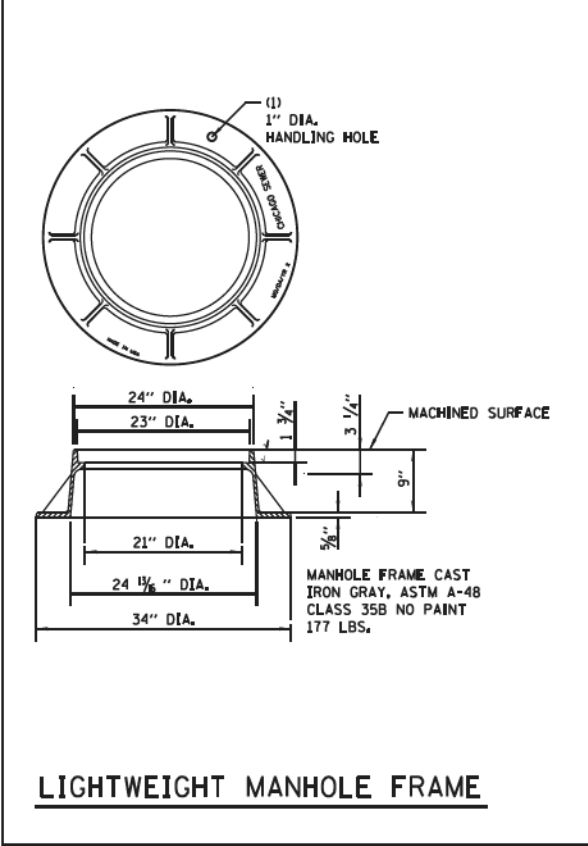
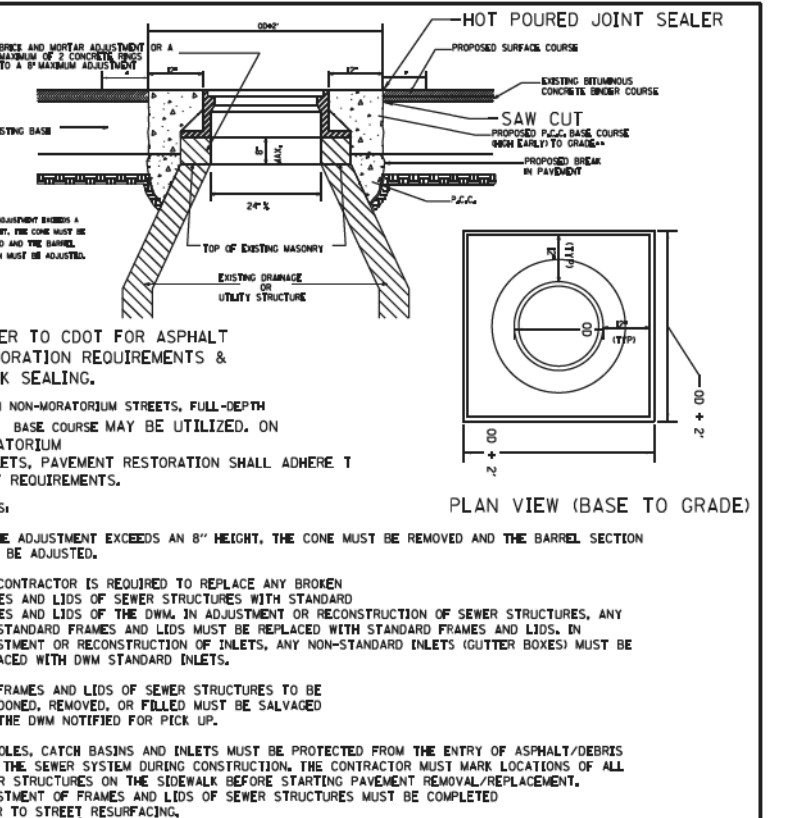
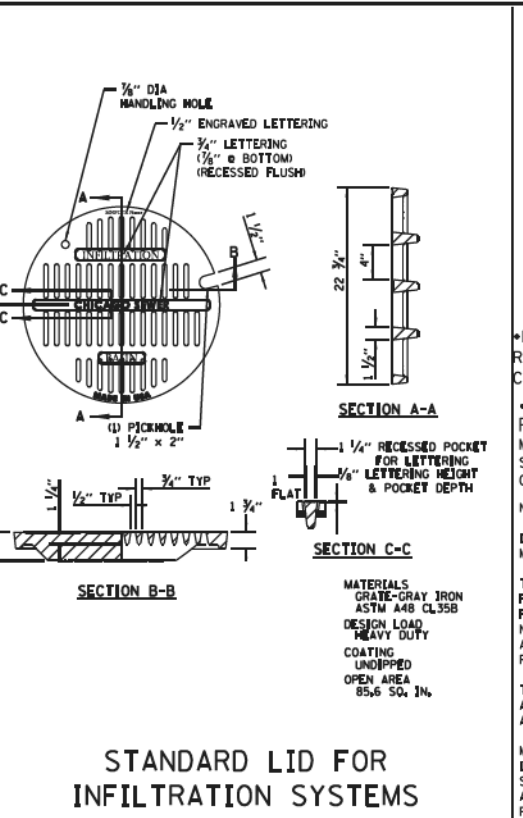
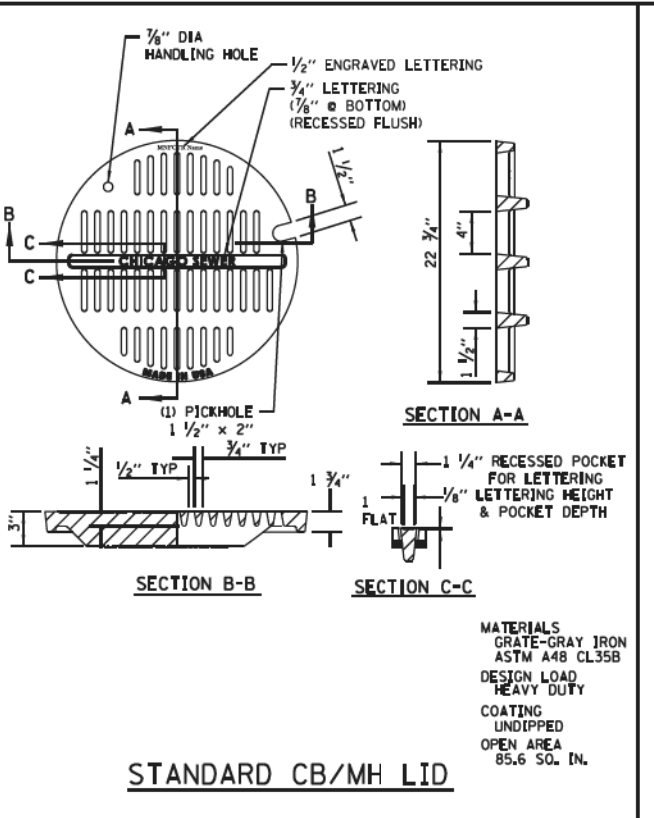
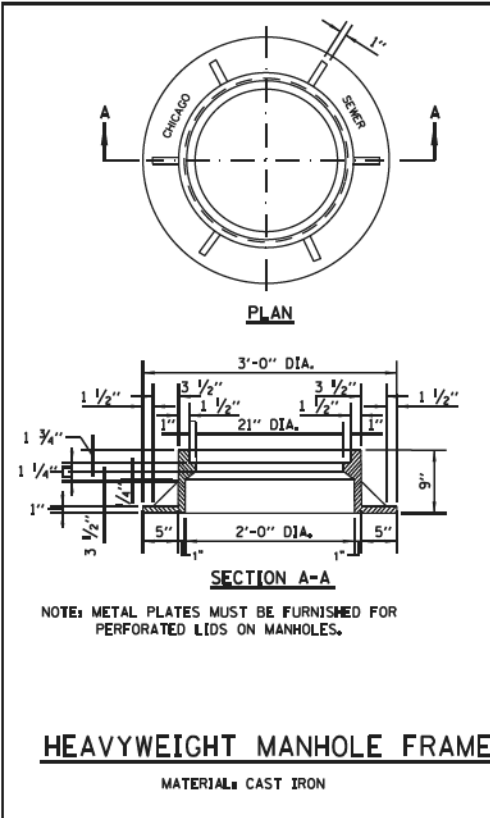
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PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

DESIGNED - CDWM	REVISED -
DRAWN - CDWM	REVISED -
CHECKED - CDWM	REVISED -
DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
CHICAGO DEPARTMENT OF WATER MANAGEMENT
SCALE: N.T.S. SHEET 2 OF 9 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 411
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X99	



STANDARD REVISIONS	
DATE	DESCRIPTION
1/22/14	Approved

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	

CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES	
MANHOLE LIDS AND FRAMES	

DRAWING SHEET NO.	A.3
OF	
PN	

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PLOT DATE = 12/15/2016

DESIGNED - CDWM
DRAWN - CDWM
CHECKED - CDWM
DATE - 12/14/16

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
CHICAGO DEPARTMENT OF WATER MANAGEMENT

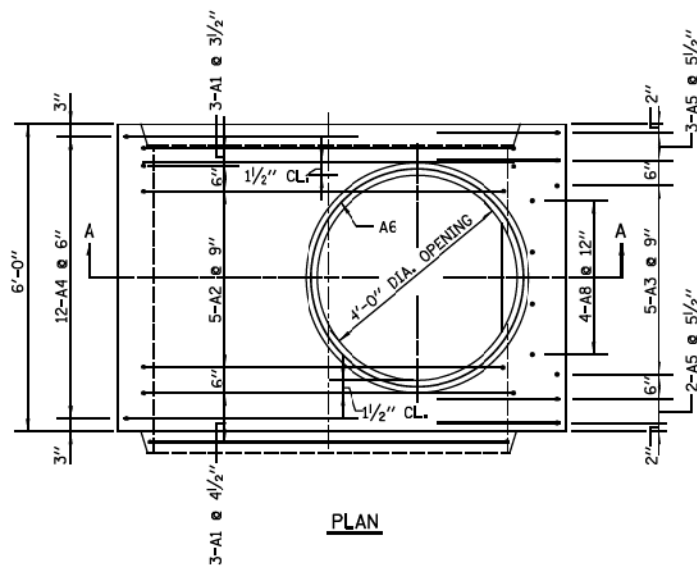
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F.A.I. R.T.E. 90/94/290
SECTION 2014-017B
COUNTY COOK
TOTAL SHEETS 442
SHEET NO. 412
CONTRACT NO. 60X99
ILLINOIS FED. AID PROJECT

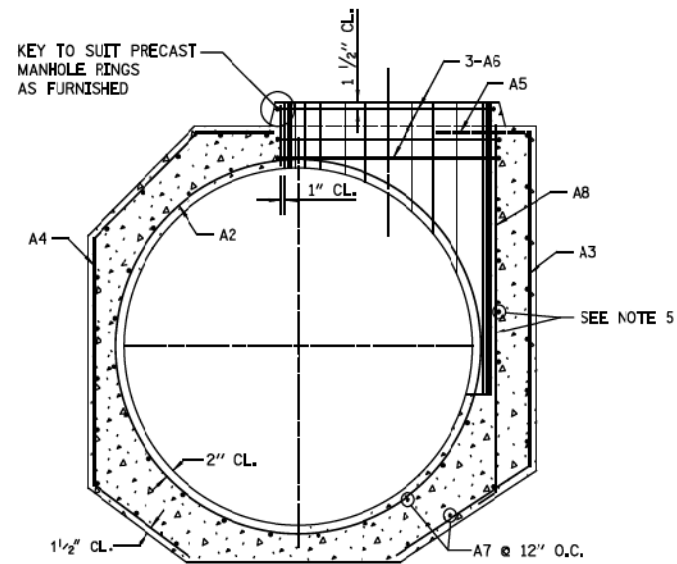
NUMBER OF PRECAST RINGS REQUIRED FOR MANHOLES OF VARIOUS HEIGHTS

TOTAL HEIGHT "H"	9" FRAME 42'-8" CORREL				PRECAST RINGS				BRICK AND/OR MORTAR	TOTAL HEIGHT "H"	9" FRAME 42'-8" CORREL				PRECAST RINGS				BRICK AND/OR MORTAR	
	4'-0"	2'-8"	1'-4"	8"	4"	4'-0"	2'-8"	1'-4"			8"	4"	4'-0"	2'-8"	1'-4"	8"	4"			
5'-0"	1				3					12'-0"	2				3					3
6'-0"	1				4					13'-0"	2				4					4
7'-0"	1				5					14'-0"	2				5					5
8'-0"	1				6					15'-0"	2				6					6
9'-0"	1				7					16'-0"	2				7					7
10'-0"	1				8					17'-0"	2				8					8
11'-0"	1				9					18'-0"	2				9					9
12'-0"	1				10					19'-0"	2				10					10
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14'-0"	1				12					21'-0"	2				12					12
15'-0"	1				13					22'-0"	2				13					13
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112'-0"	1																			

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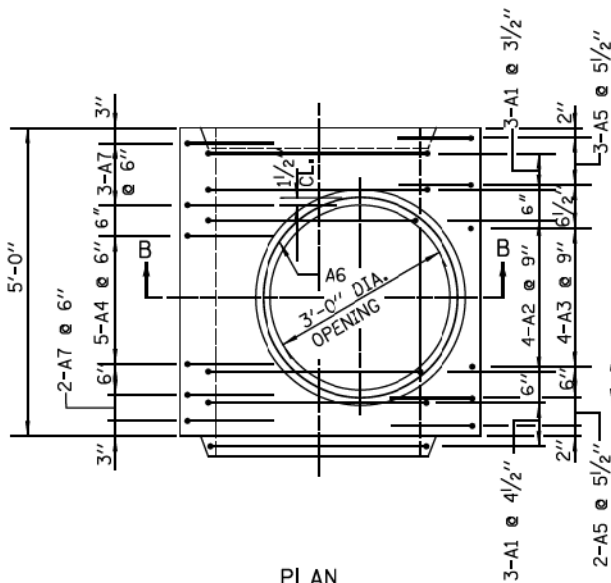
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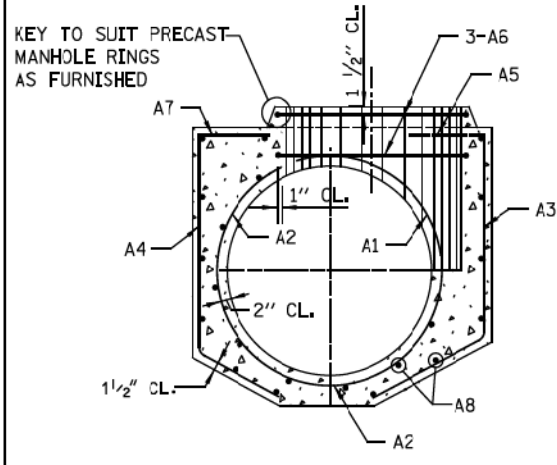
SECTION A-A

**MANHOLE BASE FOR SEWERS
48" DIA. TO 120" DIA. INCLUSIVE**

NOTES:
1. TWO LAYERS OF REINFORCEMENT FOR 66" DIA. MANHOLE AND OVER.

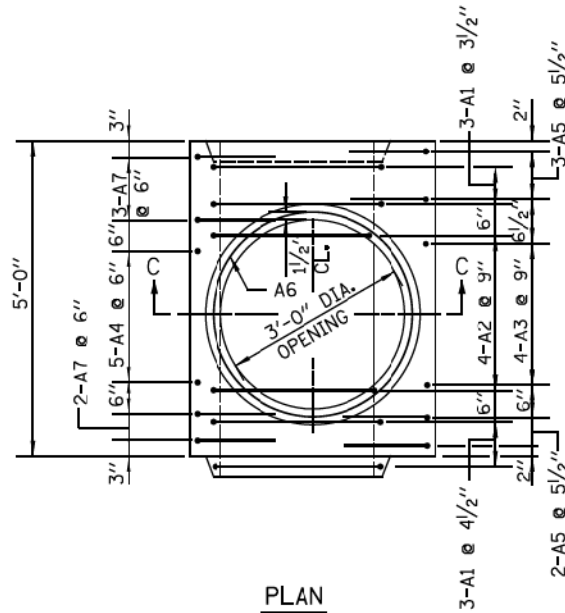


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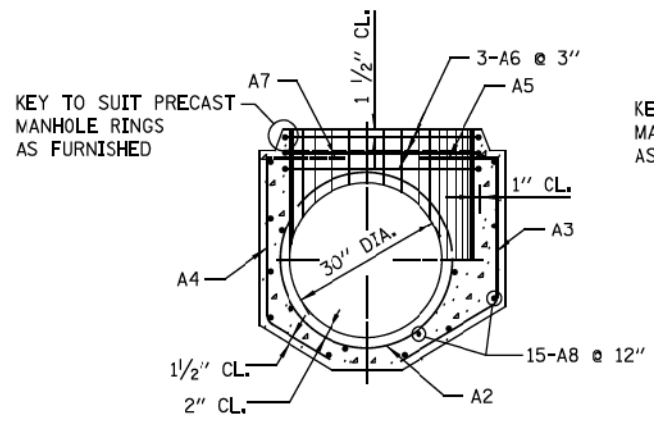


SECTION B-B

**MANHOLE BASE FOR SEWERS
36" DIA. AND 42" DIA.**

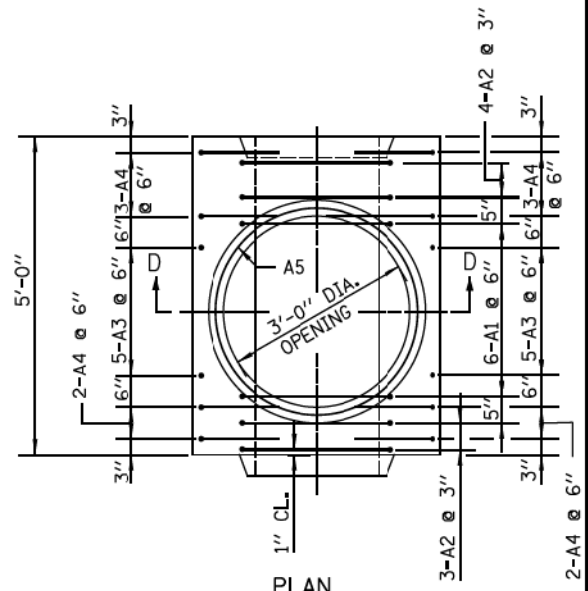


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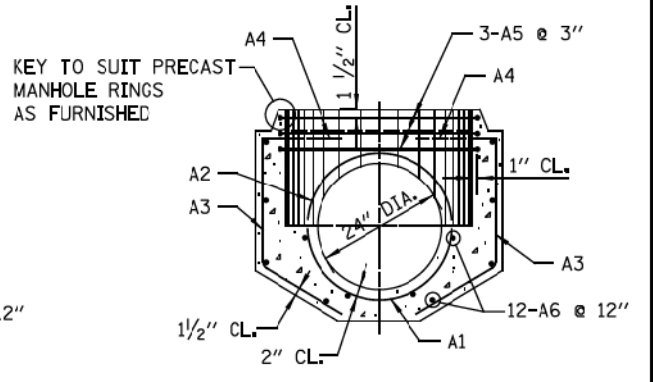


SECTION C-C

**MANHOLE BASE
FOR 30" DIA. SEWERS**



PLAN



SECTION D-D

**MANHOLE BASE
FOR 24" DIA. SEWERS**

STANDARD REVISIONS	
DATE	DESCRIPTION
1/5/15	REVISION

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO
 DEPARTMENT OF WATER MANAGEMENT
 BUREAU OF ENGINEERING SERVICES
 REINFORCEMENT FOR TYPE "A"
 PRECAST MANHOLE BASES

DRAWN	
CHECKED	
REVIEWED	

A.6

 OF
PN



D160X99-Sht-CDWM-DETAIL-06.dgn
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 PLOT DATE = 12/15/2016

DESIGNED - CDWM
 DRAWN - CDWM
 CHECKED - CDWM
 DATE - 12/14/16
 REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
CHICAGO DEPARTMENT OF WATER MANAGEMENT
 SCALE: N.T.S. SHEET 5 OF 9 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	414
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X99	

SCHEDULE OF REINFORCEMENT

STRUCTURE	REINFORCEMENT BAR					BENDING DIMENSIONS														
	MARK	SIZE	TYPE	LENGTH	NO. REINFORCING BARS	WEIGHT - LBS EACH	WEIGHT - LBS TOTAL	A	B	C	D	E	F	G	H	J	K	O	R	
120" DIA. PRECAST	120A1	8	T3	14'-0"	6	84.51	507													
	120A2	7	T3	12'-0"	5	45.82	229													
	120A3	6	T3	12'-0"	5	21.61	108													
	120A4	5	T3	12'-0"	5	15.74	79													
	120A5	4	T3	12'-0"	5	11.21	56													
	120A6	5	T3	15'-0"	3	15.74	47													
	120A7	4	STR	5'-0"	66	3.79	250													
	120A8	5	STR	5'-0"	4	11.21	45													
	TOTAL						1551													

STRUCTURE	REINFORCEMENT BAR					BENDING DIMENSIONS														
	MARK	SIZE	TYPE	LENGTH	NO. REINFORCING BARS	WEIGHT - LBS EACH	WEIGHT - LBS TOTAL	A	B	C	D	E	F	G	H	J	K	O	R	
66" DIA. PRECAST	66A1	6	T3	20'-0"	6	30.13	181													
	66A2	5	T3	11'-0"	5	12.35	62													
	66A3	5	T3	12'-0"	5	21.61	108													
	66A4	5	T3	12'-0"	5	15.74	79													
	66A5	4	T3	12'-0"	5	11.21	56													
	66A6	5	T3	15'-0"	3	15.74	47													
	66A7	4	STR	5'-0"	66	3.79	250													
	66A8	5	STR	5'-0"	4	11.21	45													
	TOTAL						691													

STRUCTURAL NOTES:

PLACING OF CONCRETE- CONCRETE MUST BE PLACED IN ACCORDANCE WITH THE METHOD OUTLINED IN THE CITY OF CHICAGO STANDARD SPECIFICATIONS. CONSTRUCTION JOINTS - JOINTS NOT INDICATED ON THE DRAWINGS MUST BE SO MADE AND LOCATED AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE AND MUST BE APPROVED BY THE COMMISSIONER. JOINTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE METHOD OUTLINED IN THE SPECIFICATIONS.

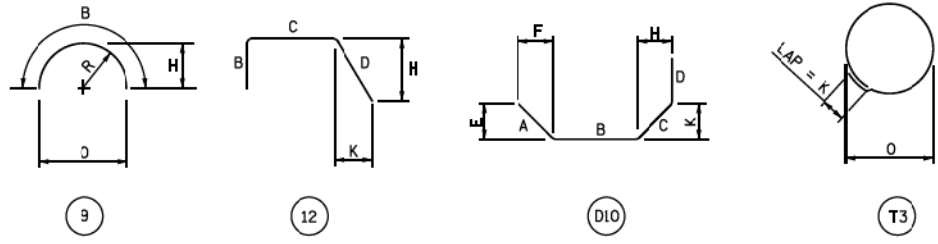
CONCRETE PROTECTION FOR REINFORCEMENT- ALL REINFORCING STEEL MUST HAVE CLEAR CONCRETE COVERING AS FOLLOWS (UNLESS OTHERWISE NOTED): 3" AT EXTERIOR SURFACES WHERE CONCRETE IS DEPOSITED AGAINST THE GROUND; 2.5" AT SURFACES WHERE CONCRETE IS FORMED BUT SUBSEQUENTLY WILL BE IN CONTACT WITH SEWAGE; 2" AT ALL OTHER SURFACES.

REINFORCING STEEL- ALL REINFORCING BARS MUST BE ACCURATELY PLACED AND SECURELY SUPPORTED BY BAR SUPPORTS, SPACERS OR HIGH CHAIRS. ALL LAPS IN REINFORCING STEEL MUST BE BASED UPON THE 1989, ACI BUILDING CODE. UNLESS OTHERWISE NOTED, HOOKS AND BENDS ON BARS MUST CONFORM TO RECOMMENDED DETAILS AS GIVEN IN THE "MANUAL OF STANDARD PRACTICE", C.R.S.I. 1990.

THE FOLLOWING ABBREVIATIONS ARE USED TO INDICATE THE LOCATION OF REINFORCING BARS:

T.	DENOTES	TOP	N.F.	DENOTES	NEAR FACE
BOT.	DENOTES	BOTTOM	F.F.	DENOTES	FAR FACE
I.F.	DENOTES	INSIDE FACE	E.F.	DENOTES	EACH FACE
O.F.	DENOTES	OUTSIDE FACE	E.W.	DENOTES	EACH WAY

PLACING BAR SUPPORTS- ALL REINFORCING BARS MUST BE SUPPORTED, ANCHORED AND TIED AND MUST CONFORM TO THE "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS", 1986, PREPARED BY THE CONCRETE REINFORCING STEEL INSTITUTE.

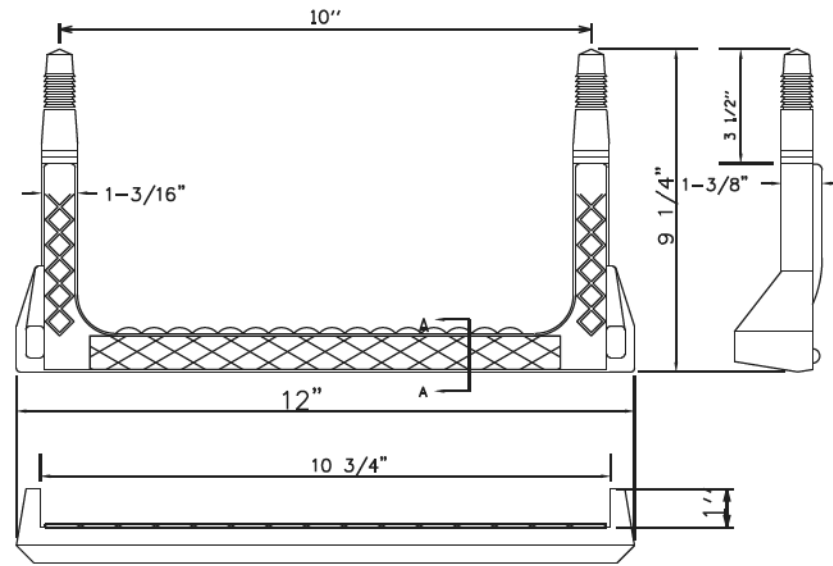


NOTES:
ALL DIMENSIONS ARE OUT TO OUT OF BAR.
BENDING RADII "R" TO OUTSIDE OF BAR.
NUMBERS IN CIRCLES DENOTE BAR TYPE.

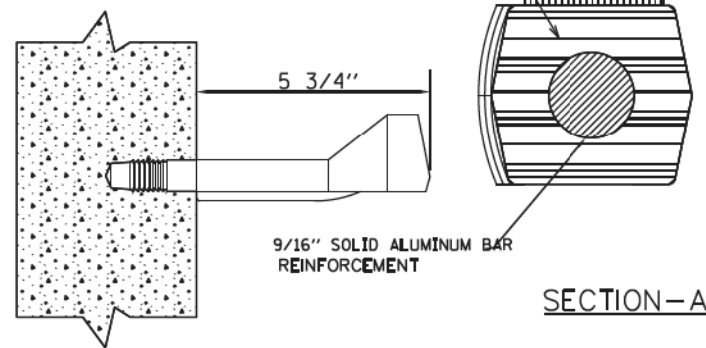
DATE	DESCRIPTION	PERCENT COMPLETE	DATE
1/5/15	APPROVED PLAN	30	
		60	
		75	
		90	
		100	
		BULLETIN	

STANDARD REVISIONS		PERCENT COMPLETE	DATE	CITY OF CHICAGO		DRAWING SHEET
DATE	DESCRIPTION			DEPARTMENT OF WATER MANAGEMENT		
1/5/15	APPROVED PLAN			BUREAU OF ENGINEERING SERVICES		
				REINFORCEMENT BAR LIST		OF
				FOR TYPE "A"		
				PRECAST MANHOLE BASES		

FILE PATH = p:\6179-P\INT\secomon\line\local\BDCM_0502_MN\Documents\01_Americas\Transportation\60269938_Circle\Phase_1\000_CAD\006_Roadway\Sheets\60X99_Contract\0160X99-Sht-CDWM-DETAIL_08.dgn



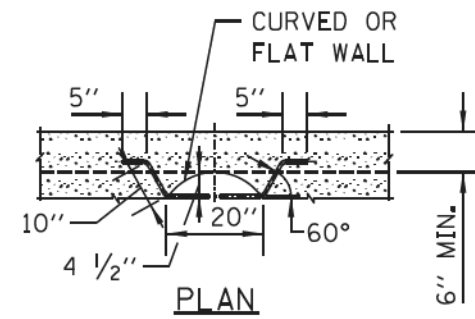
COPOLYMER POLYPROPYLENE PLASTIC



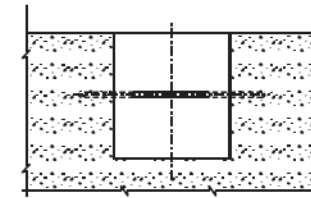
STEP LADDER RUNG

NOTES:

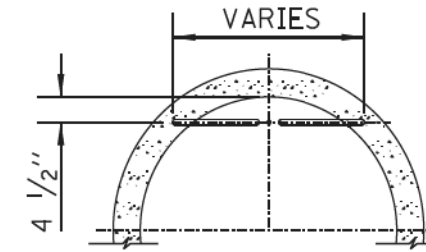
1. VERTICAL SPACING = 16" O.C., ON VERTICAL WALL ONLY.
2. STEPS TO PROTRUDE MINIMUM 5" FROM FACE OF STRUCTURE WALL.
3. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1000 LBS. WHEN INSTALLED.
4. ALL STEPS SHALL BE VERTICALLY ALIGNED IN A STRAIGHT LINE.
5. NO STEPS LOCATED INSIDE MANHOLE CHIMNEY.
6. MINIMUM CONCRETE STRENGTH MUST BE 3000 PSI
7. HOLES- PREFORMED/DRILLED
 - A. HOLES MUST BE PARALLEL
 - B. HOLES MUST BE 10" CENTERED, 1" DIAMETER
 - C. MINIMUM DEPTH- 3 1/2" TO 3 3/4"



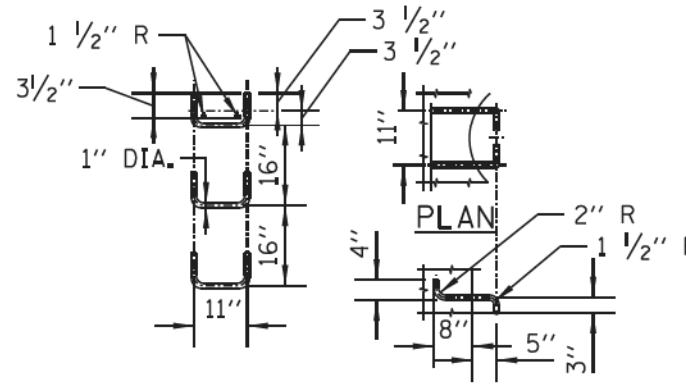
PLAN



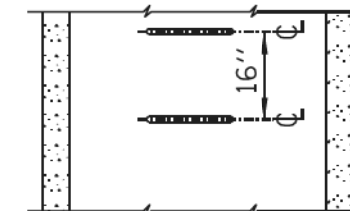
ELEVATION
TYPE X



PLAN



SPACING ELEVATION
HANDHOLD-TYPE Z RUNG



ELEVATION
TYPE Y

PERCENT COMPLETE	DATE	CITY OF CHICAGO		DESIGNED
30	1/22/14	DEPARTMENT OF WATER MANAGEMENT		CHECKED
60		BUREAU OF ENGINEERING SERVICES		REVIEWED
75		LADDER RUNGS		OF
90				A.17
100				
BULLETIN				



D160X99-Sht-CDWM-DETAIL-08.dgn	DESIGNED - CDWM	REVISED -
USER NAME = mkwilson	DRAWN - CDWM	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - CDWM	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

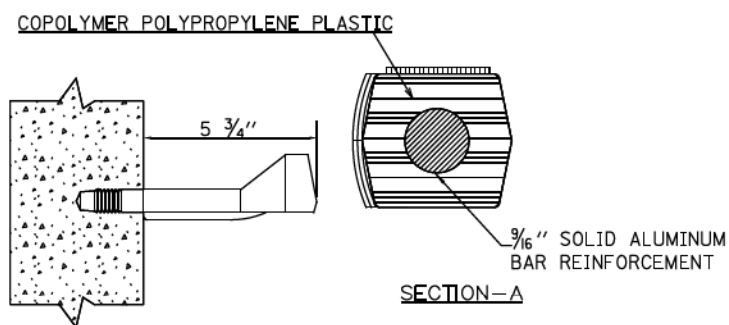
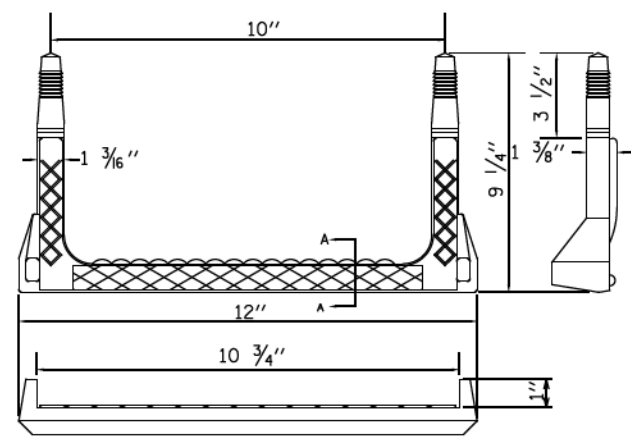
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE DETAILS
CHICAGO DEPARTMENT OF WATER MANAGEMENT**

SCALE: N.T.S. SHEET 7 OF 9 SHEETS STA. TO STA.

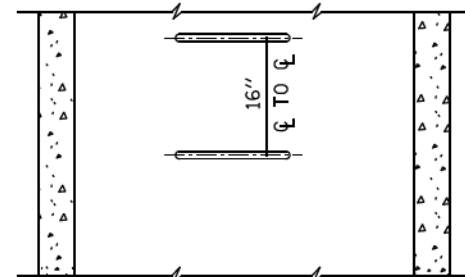
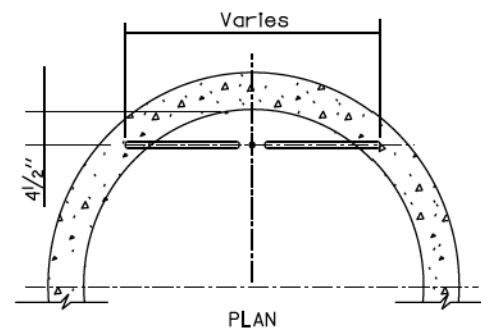
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	416
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

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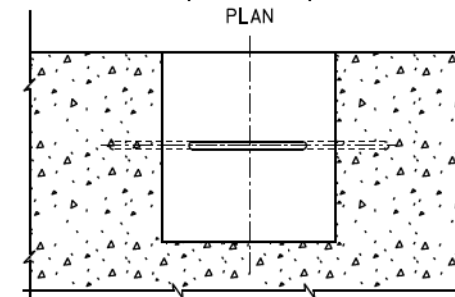
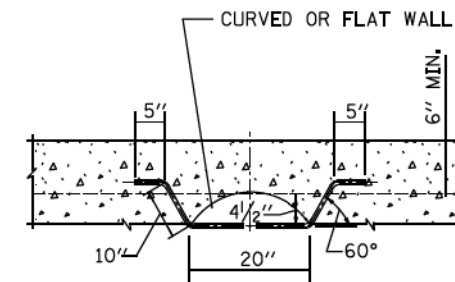


RECTANGULAR STEP LADDER RUNG

FOR USE ONLY IN 48" DIAMETER AND LARGER MANHOLES.



ELEVATION TYPE X



ELEVATION TYPE Y

NOTES:

1. VERTICAL SPACING = 16" O.C., ON VERTICAL WALL ONLY.
2. FIRST LADDER RING SHOULD BE A MAXIMUM OF 31" BELOW TOP OF MANHOLE FRAME
3. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1000 LBS, WHEN INSTALLED.
4. ALL STEPS SHALL BE VERTICALLY ALIGNED IN A STRAIGHT LINE.
5. NO STEPS LOCATED INSIDE MANHOLE CHIMNEY.
6. MINIMUM CONCRETE STRENGTH MUST BE 3000 PSI
7. HOLES- PREFORMED/DRILLED
 - A. HOLES MUST BE PARALLEL
 - B. HOLES MUST BE 10" CENTERED, 1" DIAMETER
 - C. MINIMUM DEPTH- 3 1/2" TO 3 3/4"

STANDARD REVISIONS	
DATE	DESCRIPTION
12/28/15	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES		A.20
LADDER RUNGS		
		OF
		PN

CDWM_Details.cel 2/29/2016 2:27:44 PM



D160X99-Sht-CDWM-DETAIL-10.dgn	DESIGNED - CDWM	REVISED -
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PLOT SCALE = 2.0000' / in.	CHECKED - CDWM	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

DESIGNED - CDWM	REVISED -
DRAWN - CDWM	REVISED -
CHECKED - CDWM	REVISED -
DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

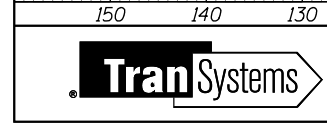
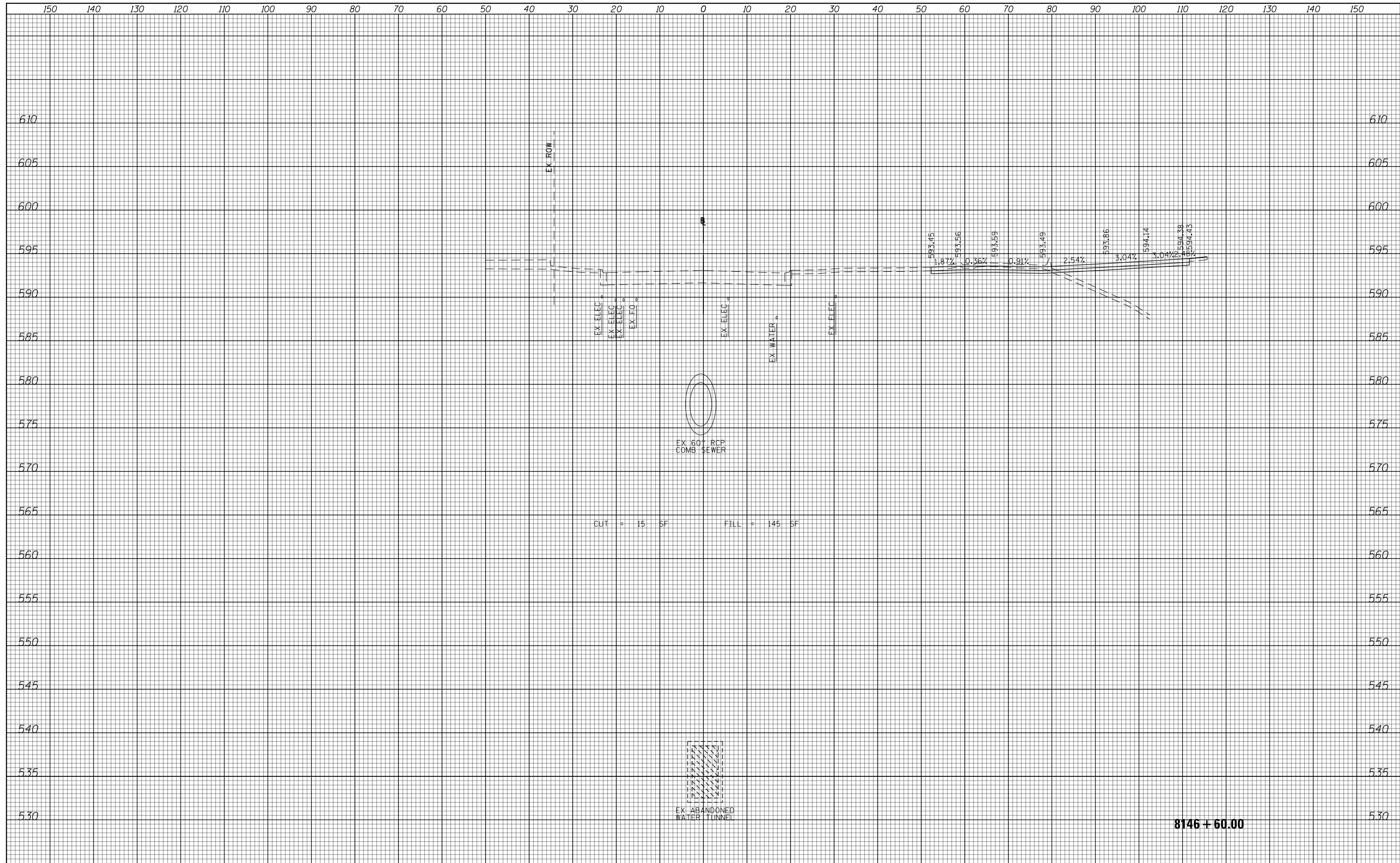
**DRAINAGE DETAILS
CHICAGO DEPARTMENT OF WATER MANAGEMENT**

SCALE: N.T.S. SHEET 9 OF 9 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 418
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

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

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



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PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
VAN BUREN**

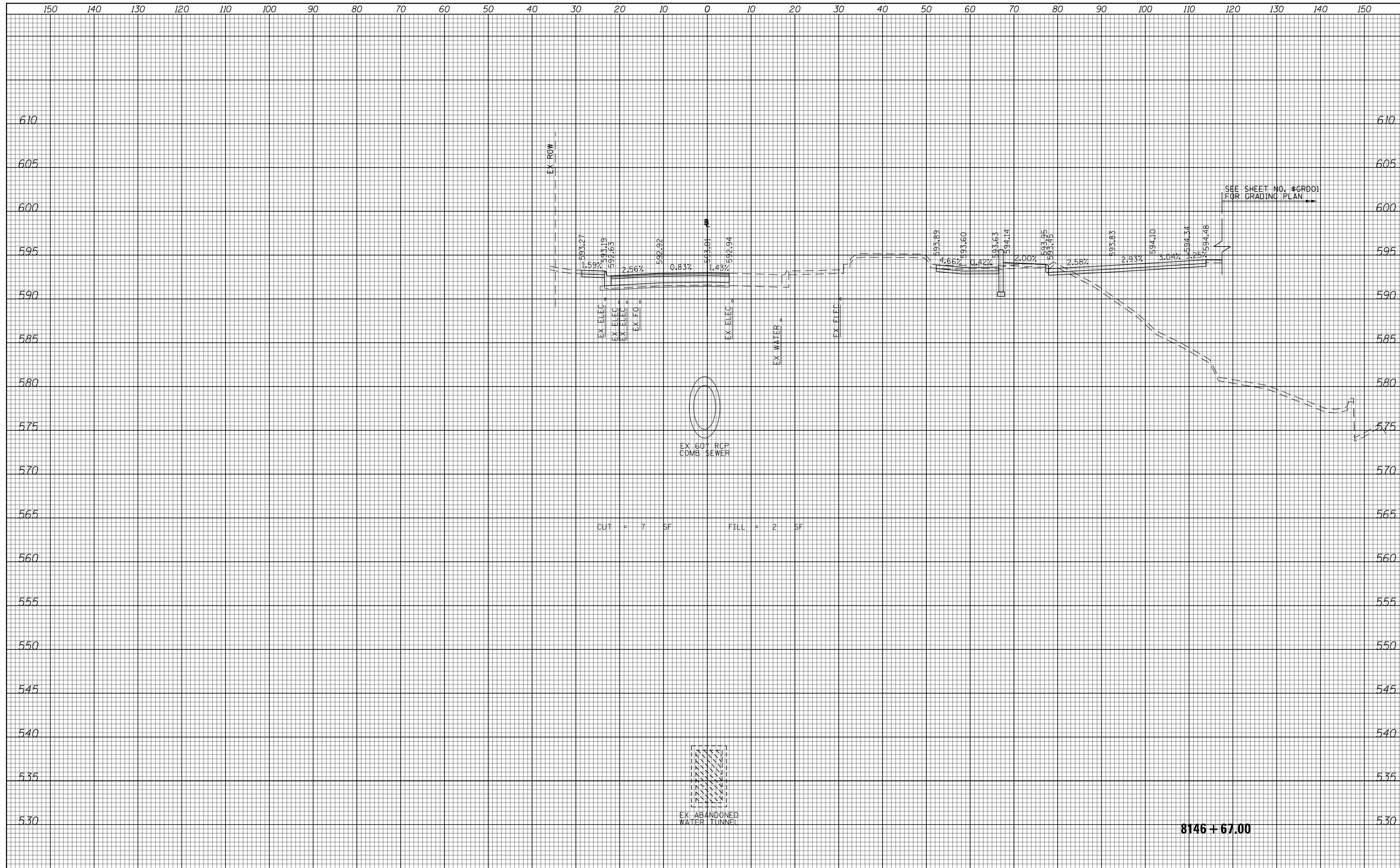
SCALE: 10:H 5:V SHEET 1 OF 24 SHEETS STA. 8146+60.00 TO STA. 8146+60.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	419
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

8146 + 60.00

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

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



CUT = 7 SF FILL = 2 SF

SEE SHEET NO. 6GRD01 FOR GRADING PLAN

8146 + 67.00



D160X99-SHT-XSC-01.dgn	DESIGNED - MKW	REVISED -
USER NAME = mkwilson	DRAWN - BSM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

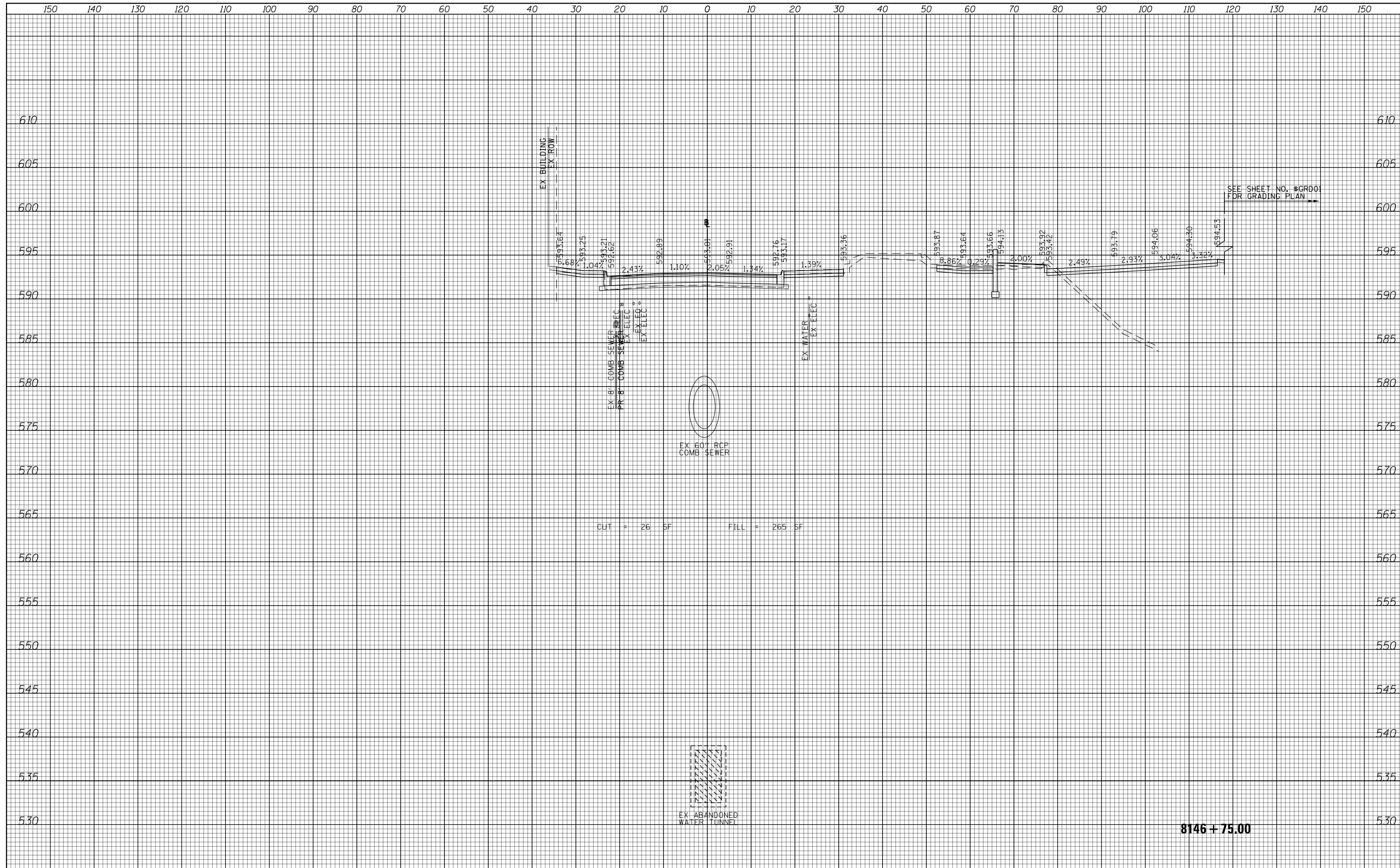
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
VAN BUREN
SCALE: 10:H 5:V SHEET 2 OF 24 SHEETS STA. 8146+67.00 TO STA. 8146+67.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	420
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

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

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



CUT = 26 SF FILL = 265 SF

8146 + 75.00



D160X99-SHT-XSC-01.dgn	DESIGNED - MKW	REVISED -
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PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

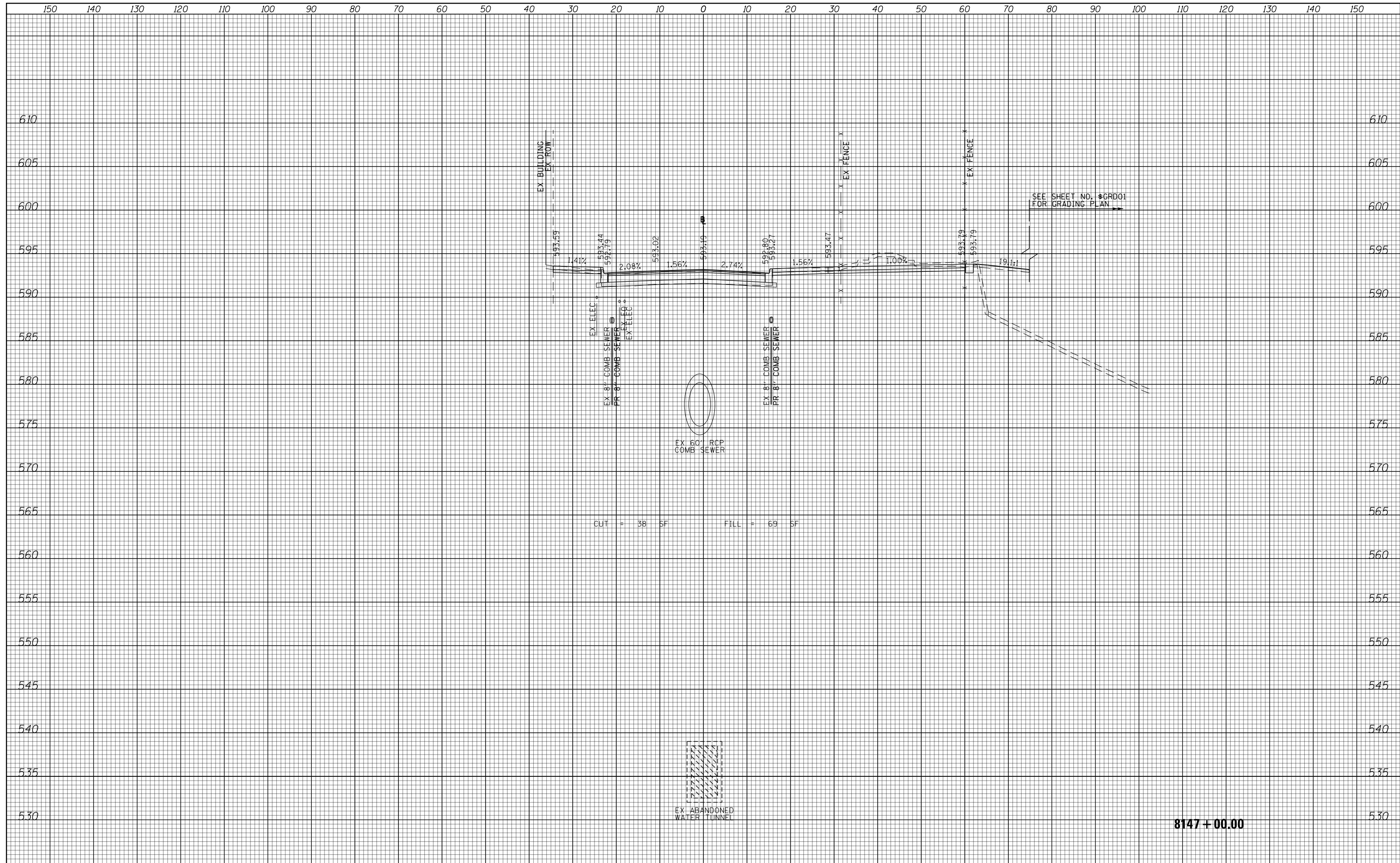
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
VAN BUREN	
SCALE: 10:H 5:V	SHEET 3 OF 24 SHEETS
STA. 8146+75.00 TO STA. 8146+75.00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	421
CONTRACT NO. 60X99				ILLINOIS FED. AID PROJECT

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

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



CUT = 38 SF FILL = 69 SF

SEE SHEET NO. \$GRD01 FOR GRADING PLAN

8147+00.00



D160X99-SHT-XSC-01.dgn	DESIGNED - MKW	REVISED -
USER NAME = mkwilson	DRAWN - BSM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

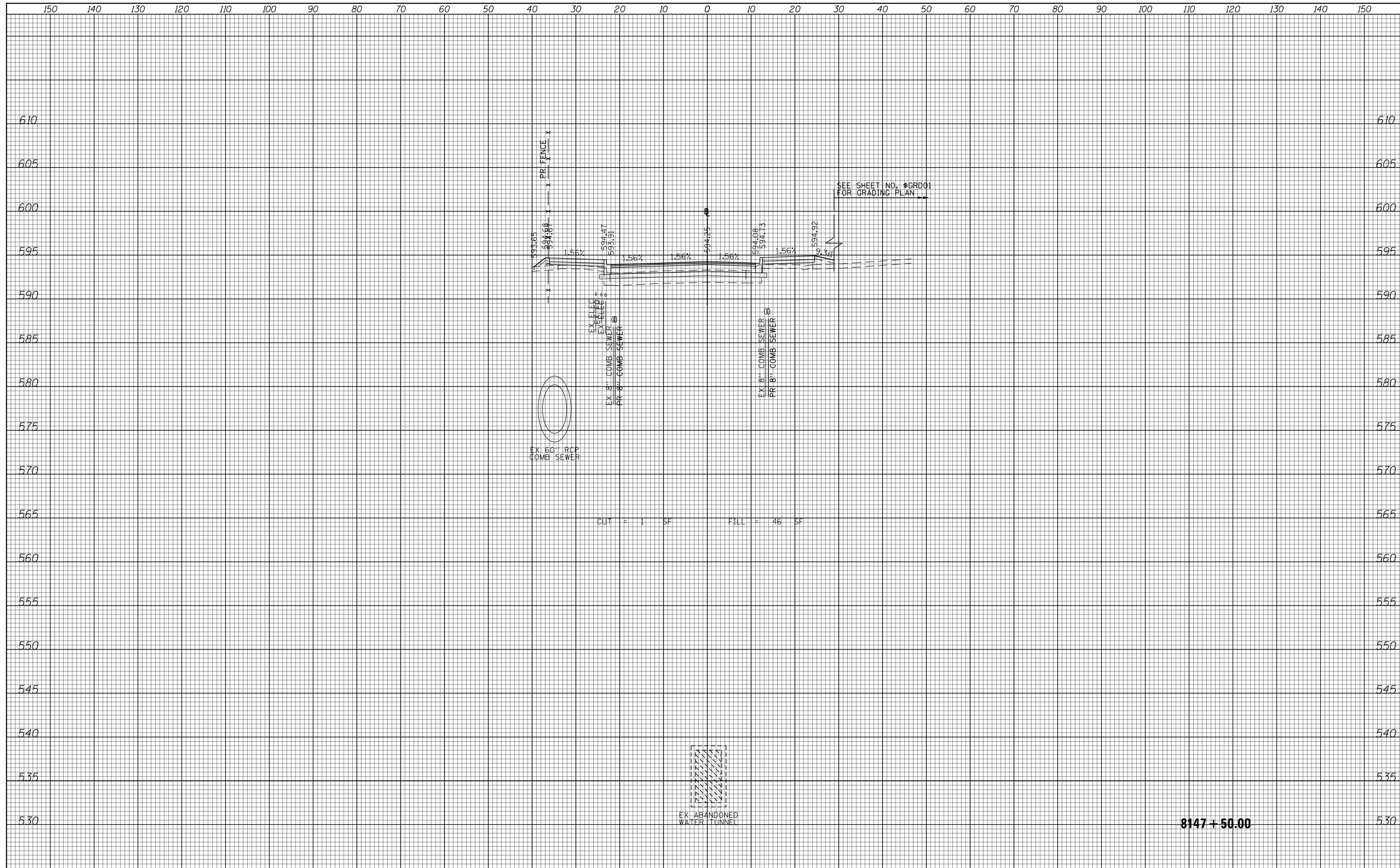
SCALE: 10H 5V		SHEET 4 OF 24 SHEETS		STA. 8147+00.00 TO STA. 8147+00.00	
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CROSS SECTIONS
VAN BUREN

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	422
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

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

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



D160X99-SHT-XSC-01.dgn	DESIGNED - MKW	REVISED -
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PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

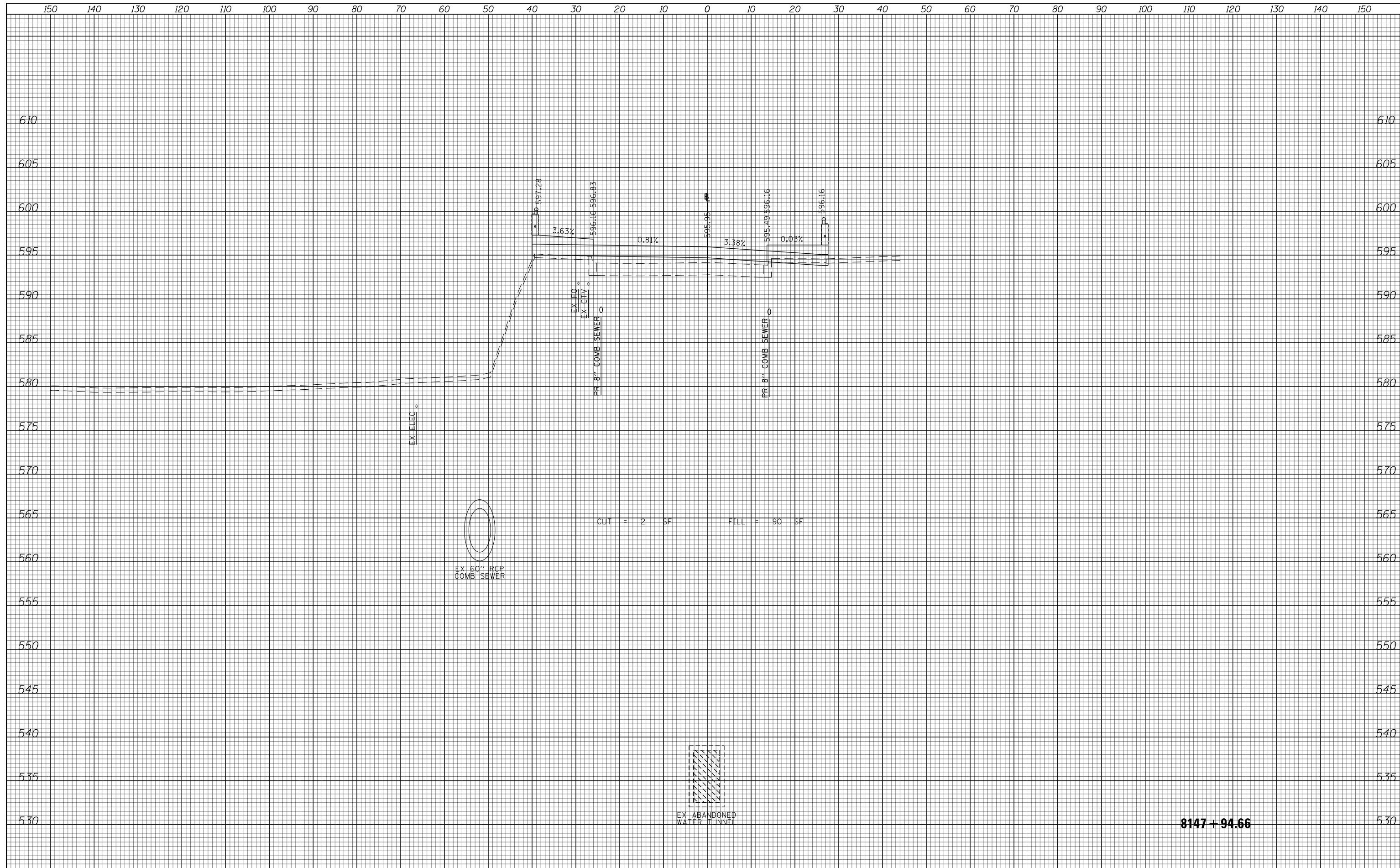
CROSS SECTIONS VAN BUREN			
SCALE: 10:H 5:V	SHEET 5	OF 24 SHEETS	STA. 8147+50.00 TO STA. 8147+50.00

F.A.I. RTE. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 423
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

8147 + 50.00

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

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



8147 + 94.66



D160X99-SHT-XSC-01.dgn	DESIGNED - MKW	REVISED -
USER NAME = mkwilson	DRAWN - BSM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
VAN BUREN

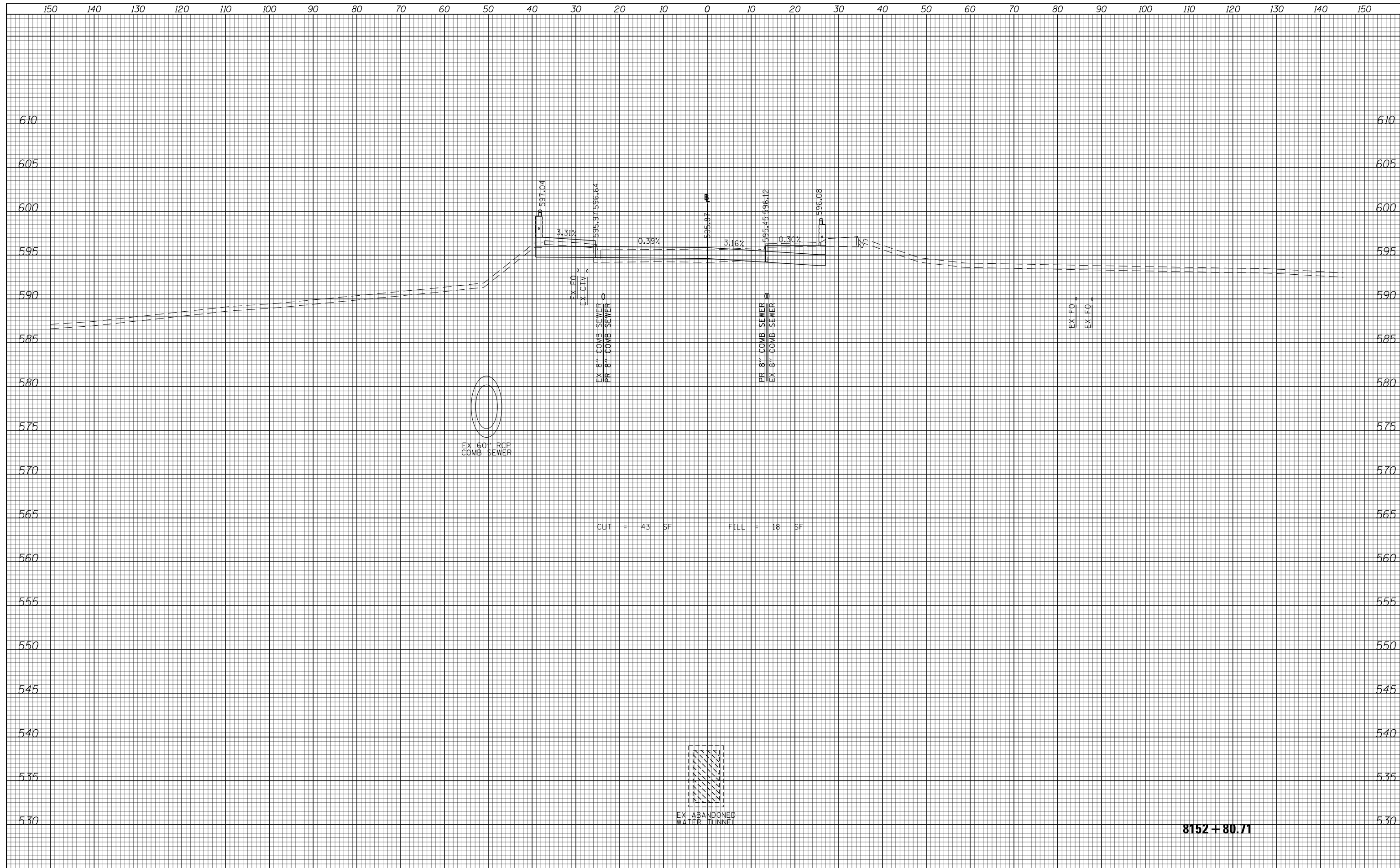
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	424
			CONTRACT NO. 60X99	

ILLINOIS FED. AID PROJECT

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

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



CUT = 43 SF FILL = 18 SF

8152 + 80.71



D160X99-SHT-XSC-01.dgn	DESIGNED - MKW	REVISED -
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PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

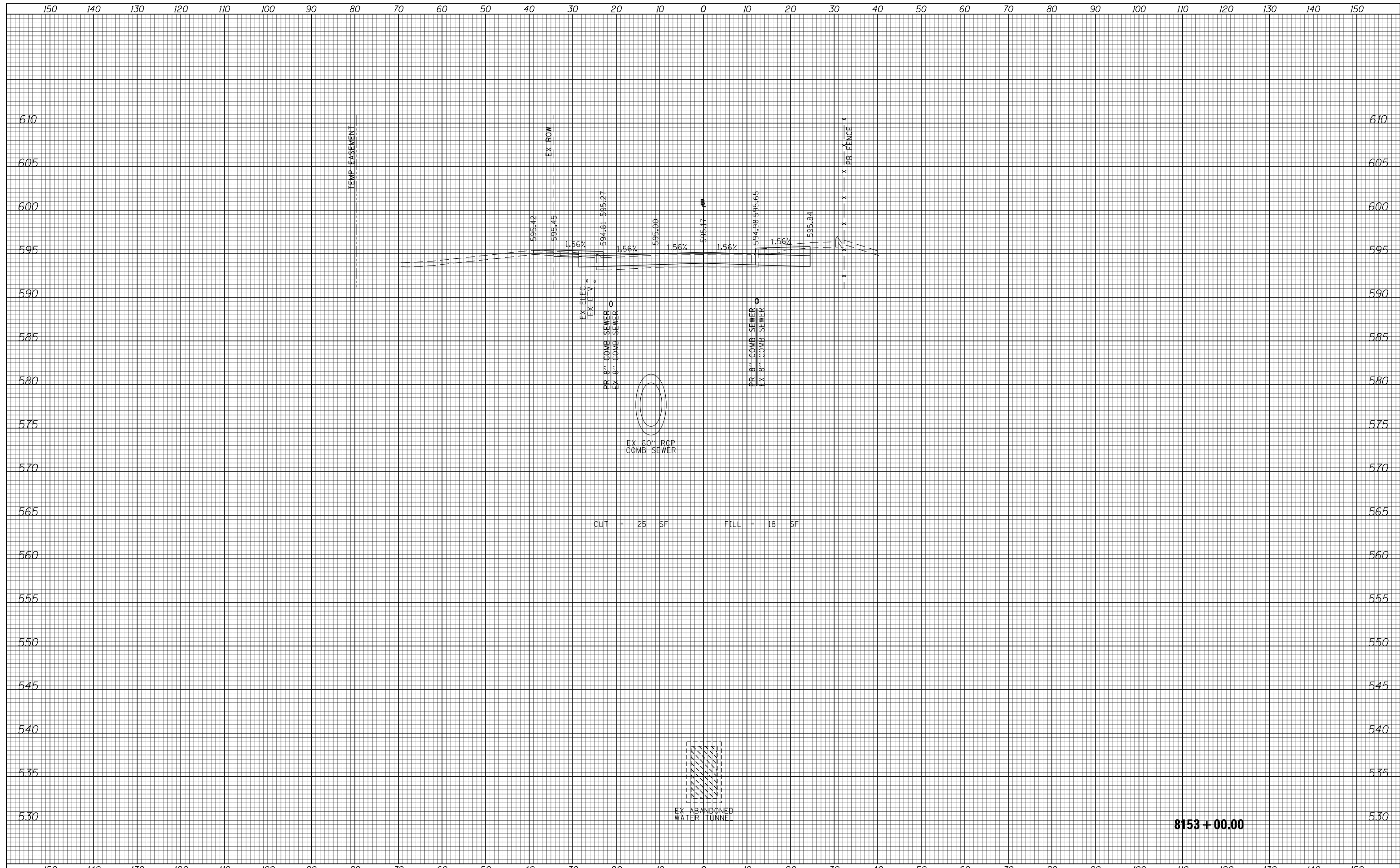
CROSS SECTIONS
VAN BUREN

SCALE: 10H 5V SHEET 7 OF 24 SHEETS STA. 8152+80.71 TO STA. 8152+80.71

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	425
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

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

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



CUT = 25 SF FILL = 18 SF

8153 + 00.00



D160X99-SHT-XSC-01.dgn	DESIGNED - MKW	REVISED -
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PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

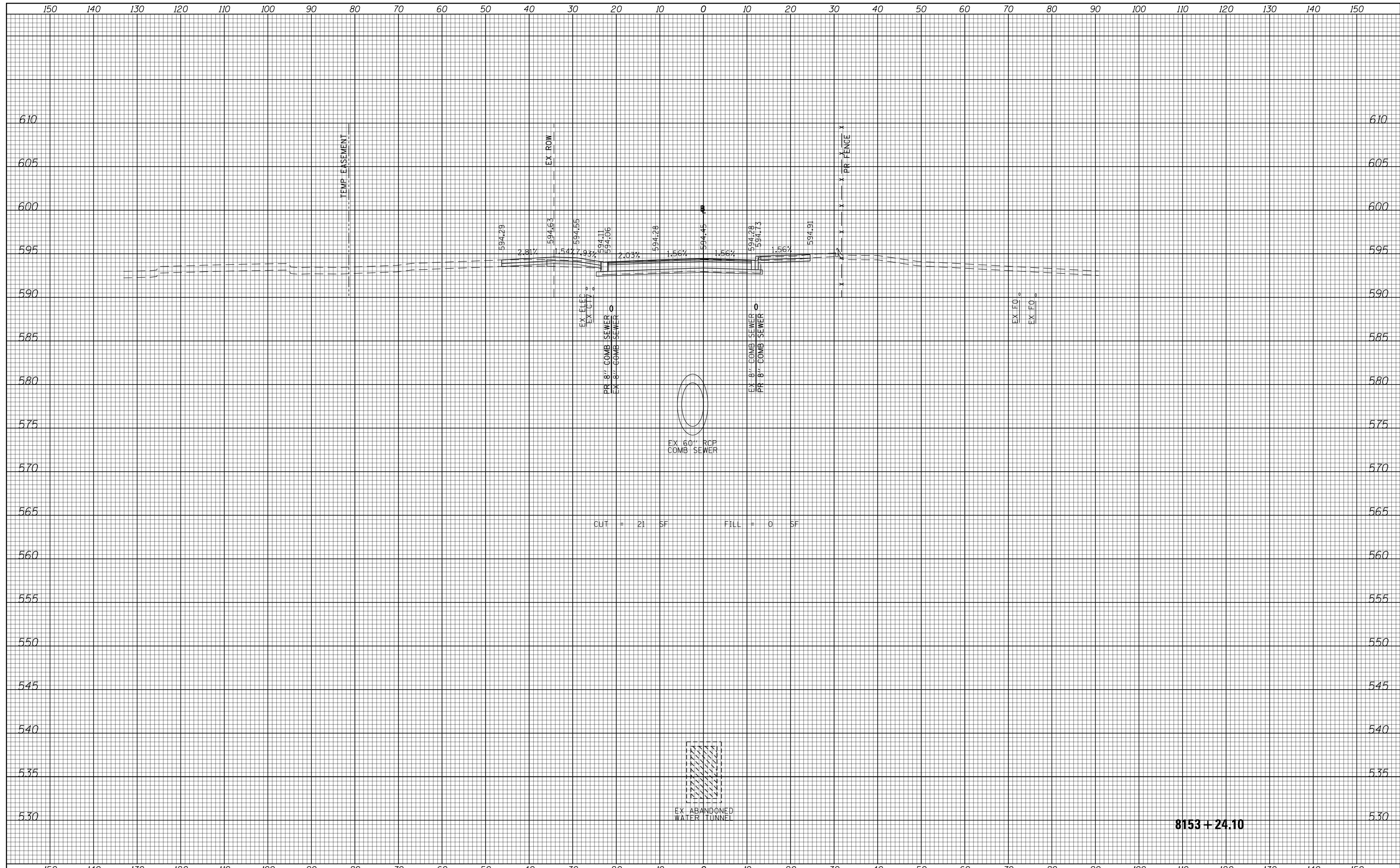
**CROSS SECTIONS
VAN BUREN**

SCALE: 10H 5V SHEET 8 OF 24 SHEETS STA. 8153+00.00 TO STA. 8153+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	426
			CONTRACT NO. 60X99	
ILLINOIS FED. AID PROJECT				

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

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



CUT = 21 SF FILL = 0 SF

8153 + 24.10



D160X99-SHT-XSC-01.dgn	DESIGNED - MKW	REVISED -
USER NAME = mkwilson	DRAWN - BSM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

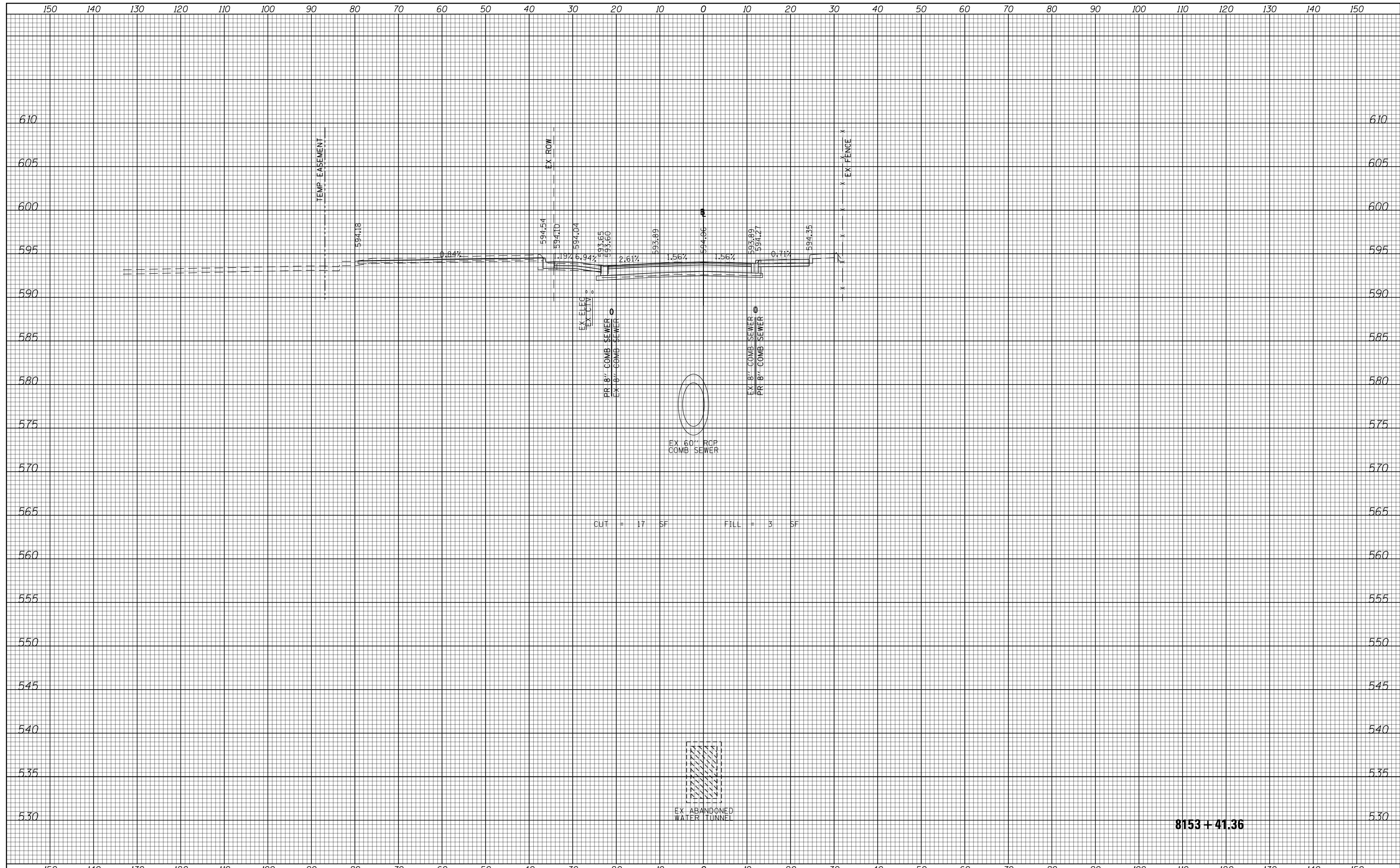
CROSS SECTIONS
VAN BUREN

SCALE: 10H 5V SHEET 9 OF 24 SHEETS STA. 8153+24.10 TO STA. 8153+24.10

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	427
			CONTRACT NO. 60X99	
ILLINOIS FED. AID PROJECT				

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

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



CUT = 17 SF FILL = 3 SF

8153 + 41.36



D160X99-SHT-XSC-01.dgn	DESIGNED - MKW	REVISED -
USER NAME = mkwilson	DRAWN - BSM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

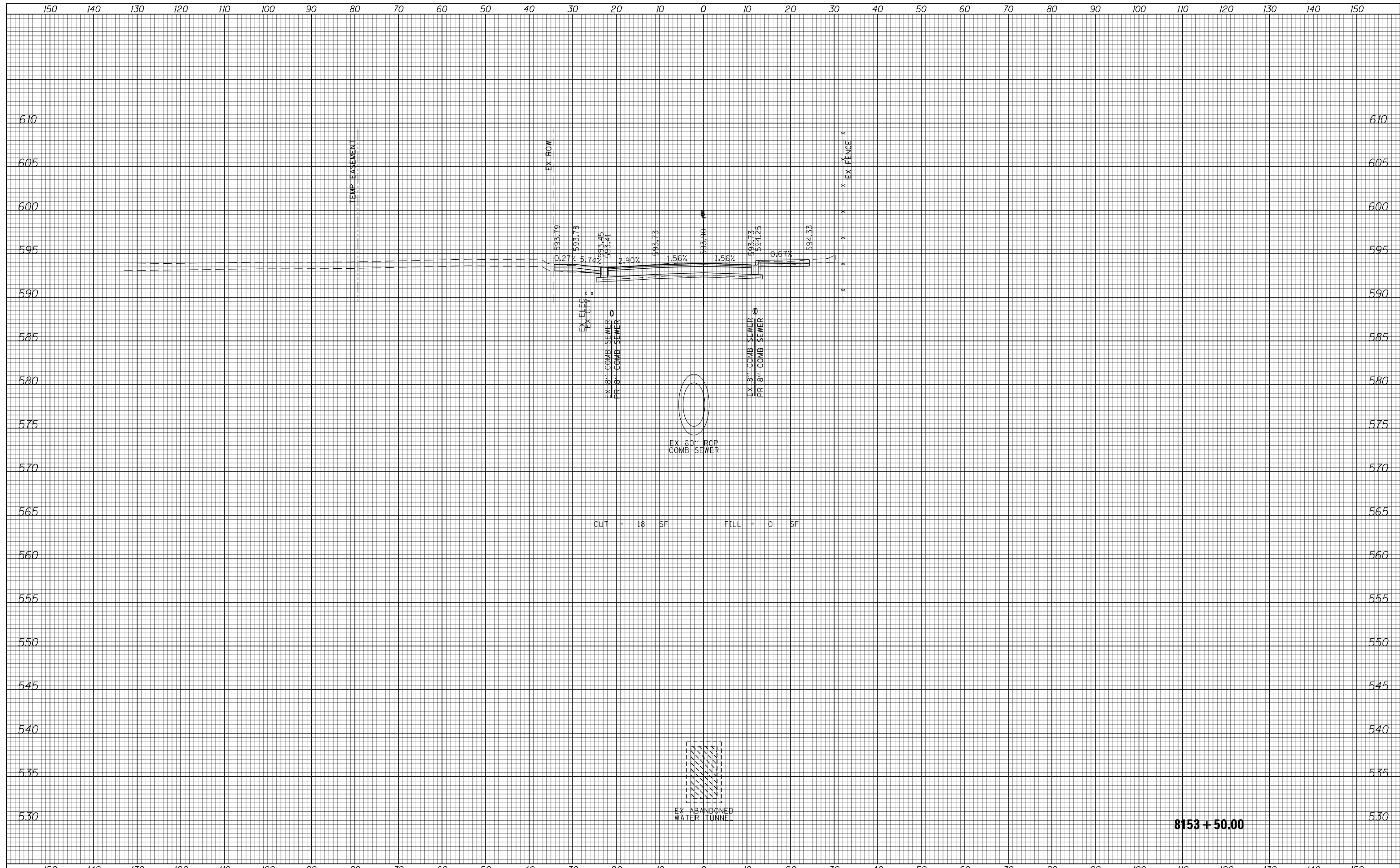
**CROSS SECTIONS
VAN BUREN**

SCALE: 10H 5V SHEET 10 OF 24 SHEETS STA. 8153+41.36 TO STA. 8153+41.36

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	428
			CONTRACT NO. 60X99	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



CUT = 18 SF FILL = 0 SF

8153 + 50.00



D160X99-SHT-XSC-01.dgn	DESIGNED - MKW	REVISED -
USER NAME = mkwilson	DRAWN - BSM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

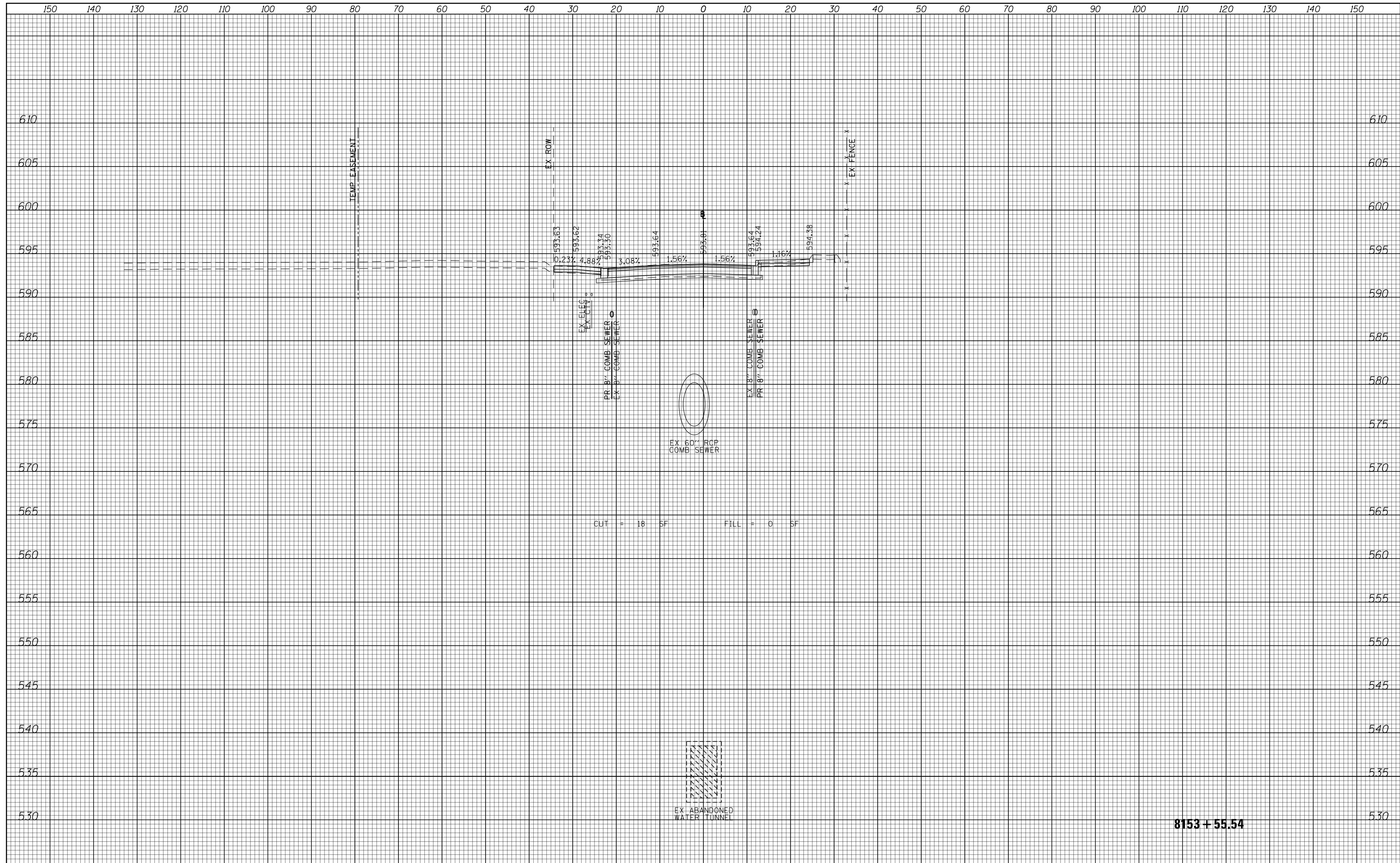
CROSS SECTIONS
VAN BUREN

SCALE: 10H 5V SHEET 11 OF 24 SHEETS STA. 8153+50.00 TO STA. 8153+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	429
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



CUT = 18 SF FILL = 0 SF

8153 + 55.54



D160X99-SHT-XSC-01.dgn	DESIGNED - MKW	REVISED -
USER NAME = mkwilson	DRAWN - BSM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

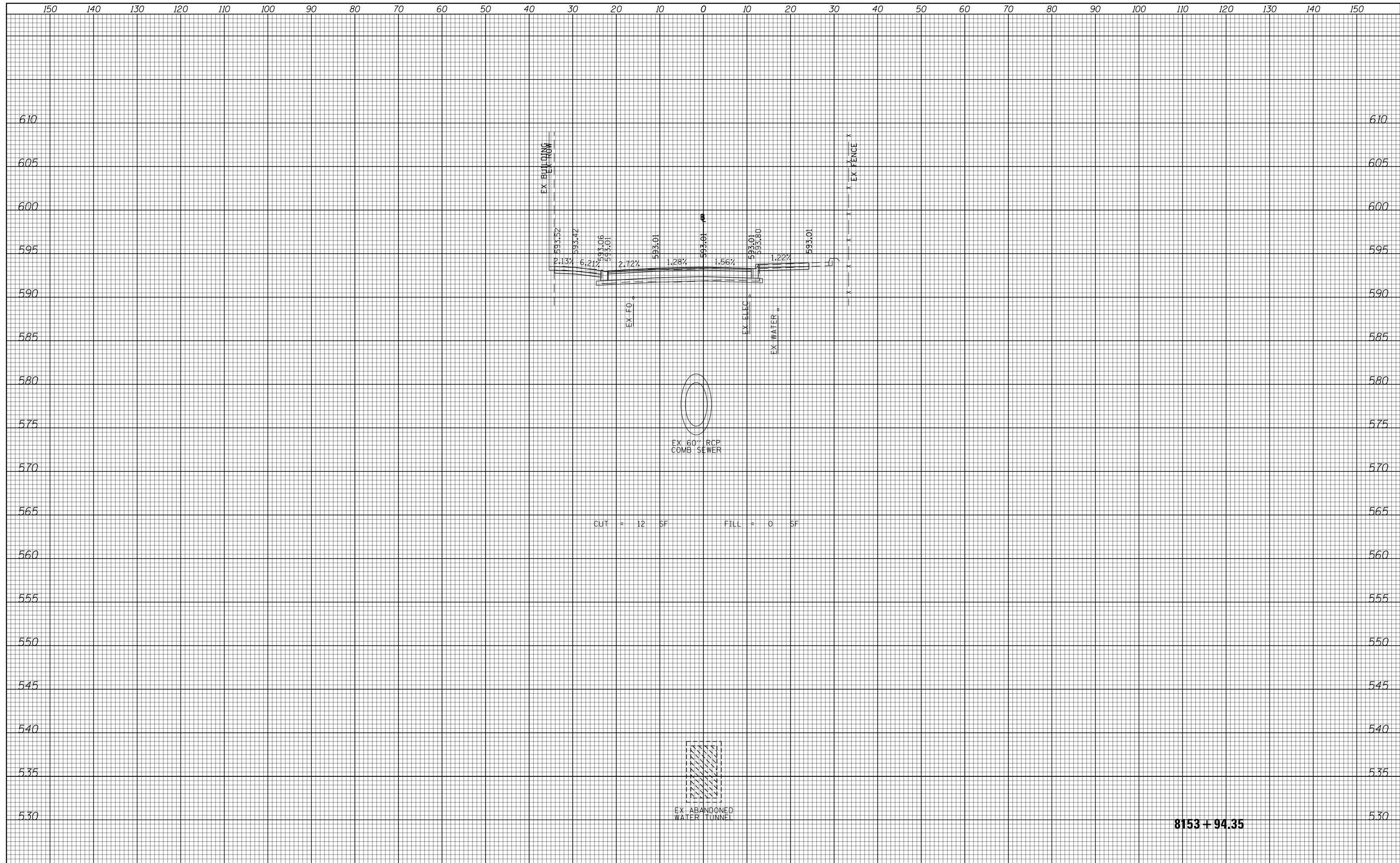
CROSS SECTIONS
VAN BUREN

SCALE: 10H 5V SHEET 12 OF 24 SHEETS STA. 8153+55.54 TO STA. 8153+55.54

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	430
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	



CUT = 12 SF FILL = 0 SF

8153 + 94.35



D160X99-SHT-XSC-01.dgn	DESIGNED - MKW	REVISED -
USER NAME = mkwilson	DRAWN - BSM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

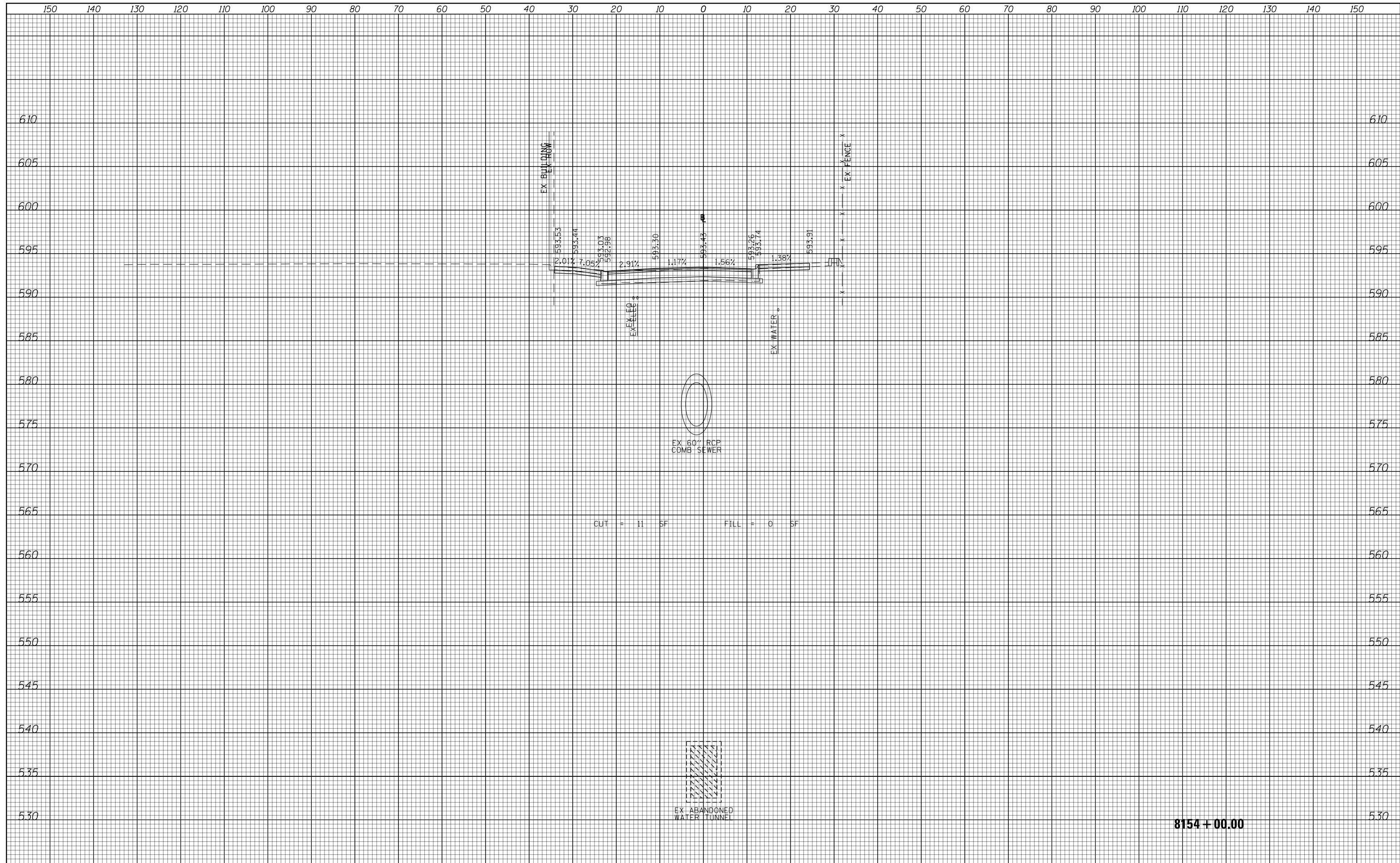
**CROSS SECTIONS
VAN BUREN**

SCALE: 10H 5V SHEET 13 OF 24 SHEETS STA. 8153+94.35 TO STA. 8153+94.35

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	431
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



8154 + 00.00



D160X99-SHT-XSC-01.dgn	DESIGNED - MKW	REVISED -
USER NAME = mkwilson	DRAWN - BSM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

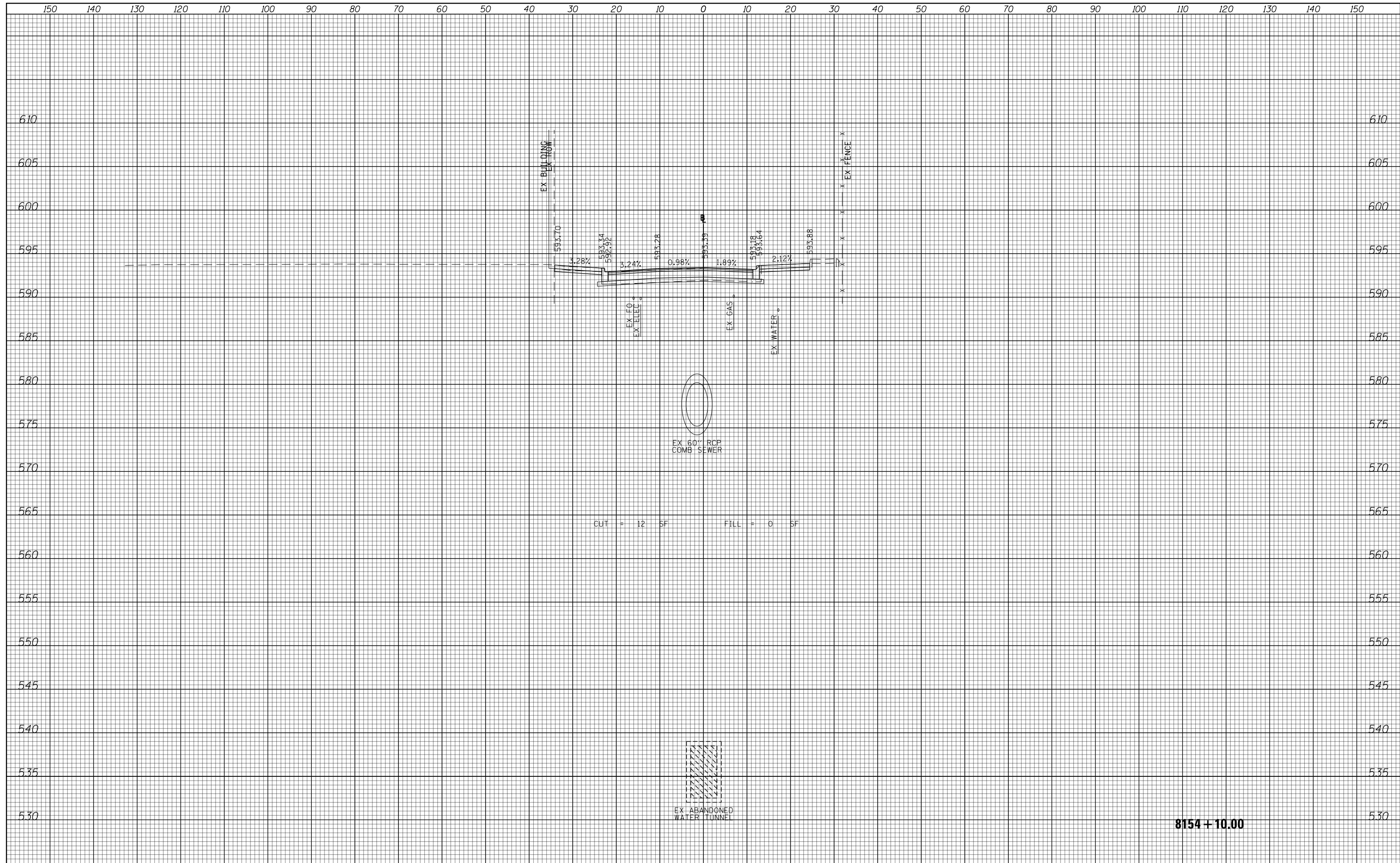
CROSS SECTIONS
VAN BUREN

SCALE: 10H 5V SHEET 14 OF 24 SHEETS STA. 8154+00.00 TO STA. 8154+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	432
				CONTRACT NO. 60X99
ILLINOIS FED. AID PROJECT				

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

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



CUT = 12 SF FILL = 0 SF

8154 + 10.00



D160X99-SHT-XSC-01.dgn	DESIGNED - MKW	REVISED -
USER NAME = mkwilson	DRAWN - BSM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

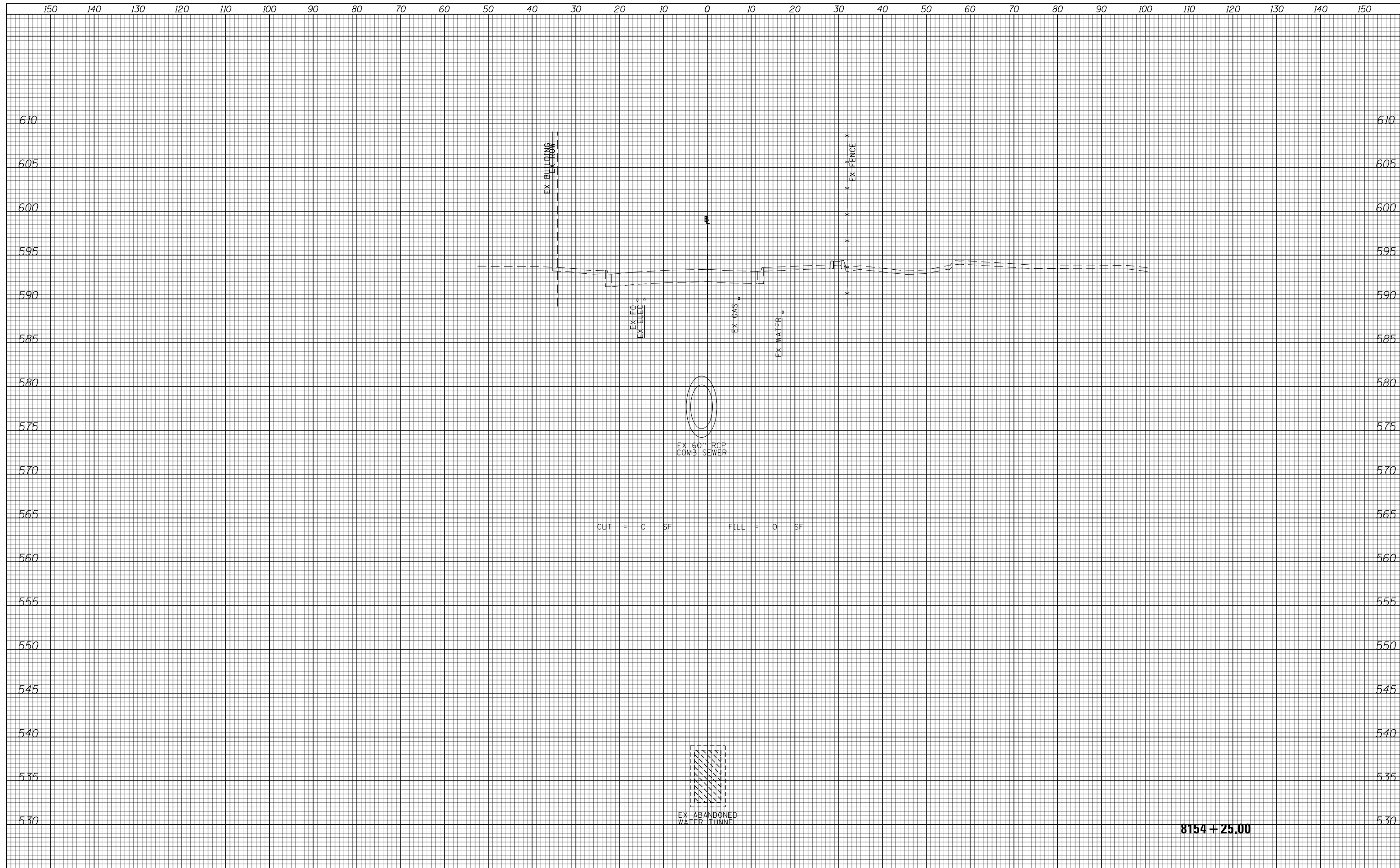
CROSS SECTIONS
VAN BUREN

SCALE: 10H 5V SHEET 15 OF 24 SHEETS STA. 8154+10.00 TO STA. 8154+10.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	433
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

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

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



CUT = 0 SF FILL = 0 SF

8154 + 25.00



D160X99-SHT-XSC-01.dgn	DESIGNED - MKW	REVISED -
USER NAME = mkwilson	DRAWN - BSM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

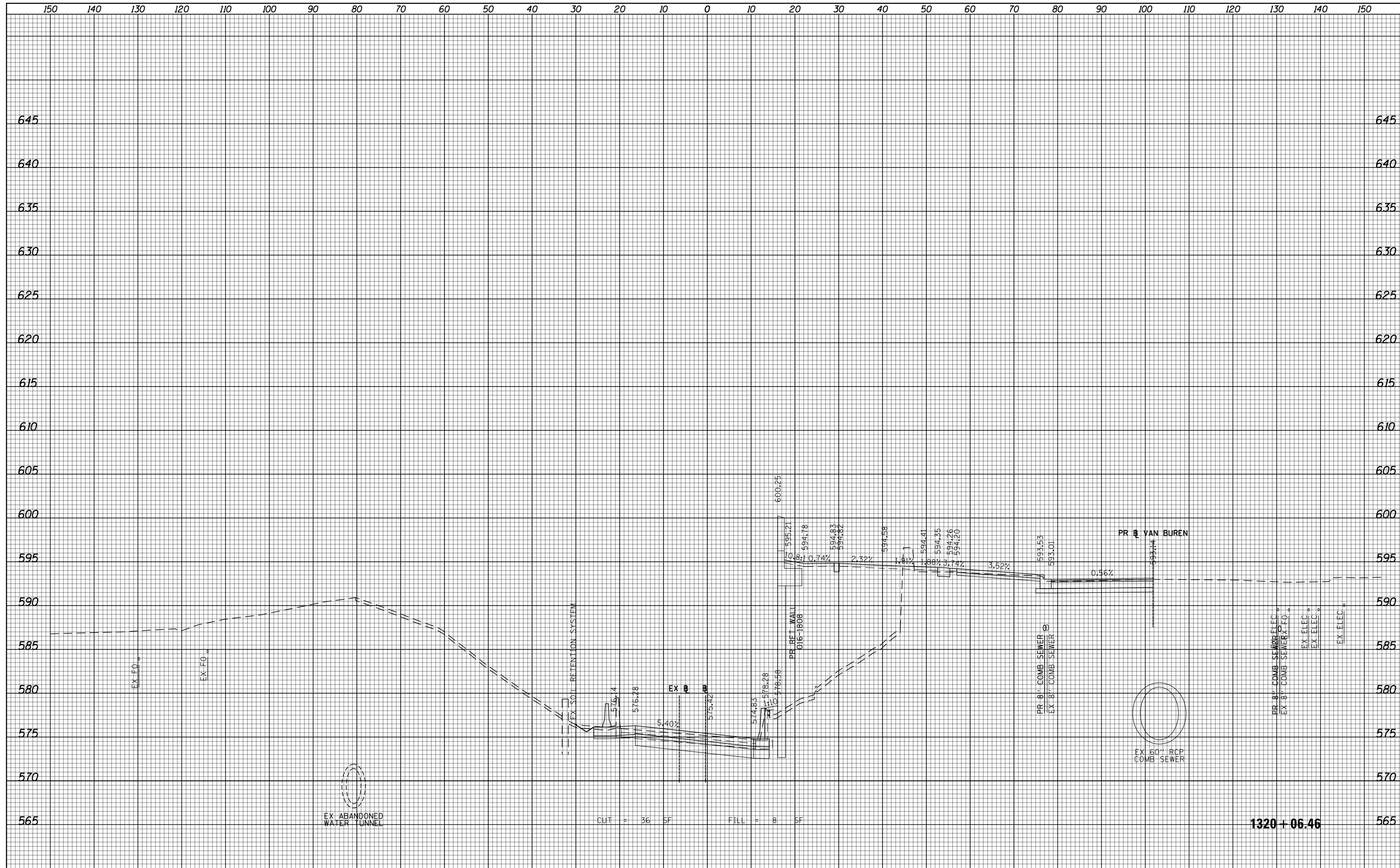
**CROSS SECTIONS
VAN BUREN**

SCALE: 10H 5V SHEET 16 OF 24 SHEETS STA. 8154+25.00 TO STA. 8154+25.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	434
			CONTRACT NO. 60X99	
ILLINOIS FED. AID PROJECT				

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

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



D160X99-SHT-XSC-02.dgn
 USER NAME = v1janachione
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 12/15/2016

DESIGNED - MKW
 DRAWN - MKW
 CHECKED - JLM
 DATE - 12/14/16

REVISED -
 REVISED -
 REVISED -
 REVISED -

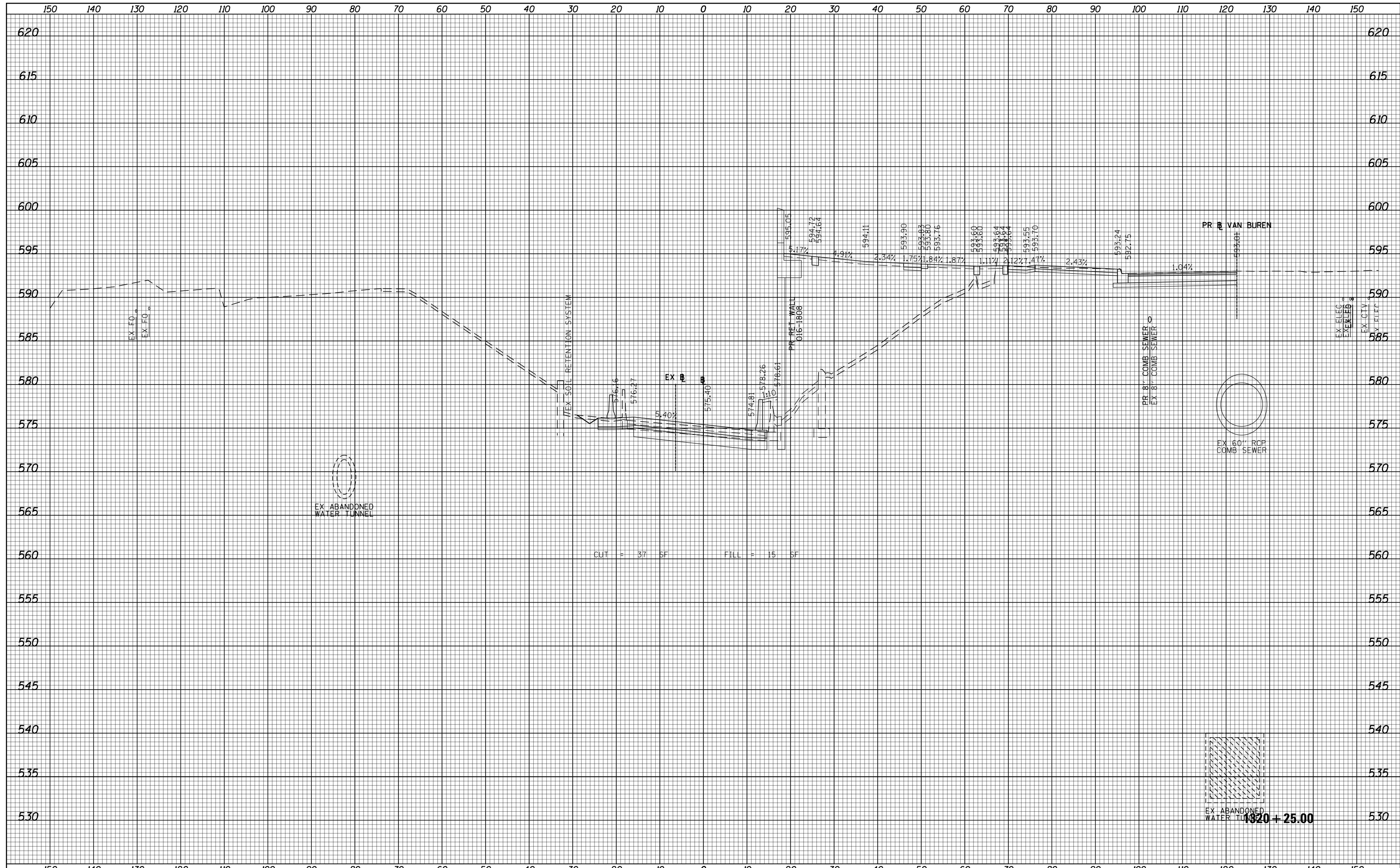
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 RAMP SW
 SCALE: 10H 5V SHEET 17 OF 24 SHEETS STA. 1320+06.46 TO STA. 1320+06.46

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	435
			CONTRACT NO. 60X99	
ILLINOIS FED. AID PROJECT				

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

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



D160X99-SHT-XSC-02.dgn	DESIGNED - MKW	REVISED -
USER NAME = vljanachione	DRAWN - MKW	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JLM	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
RAMP SW**

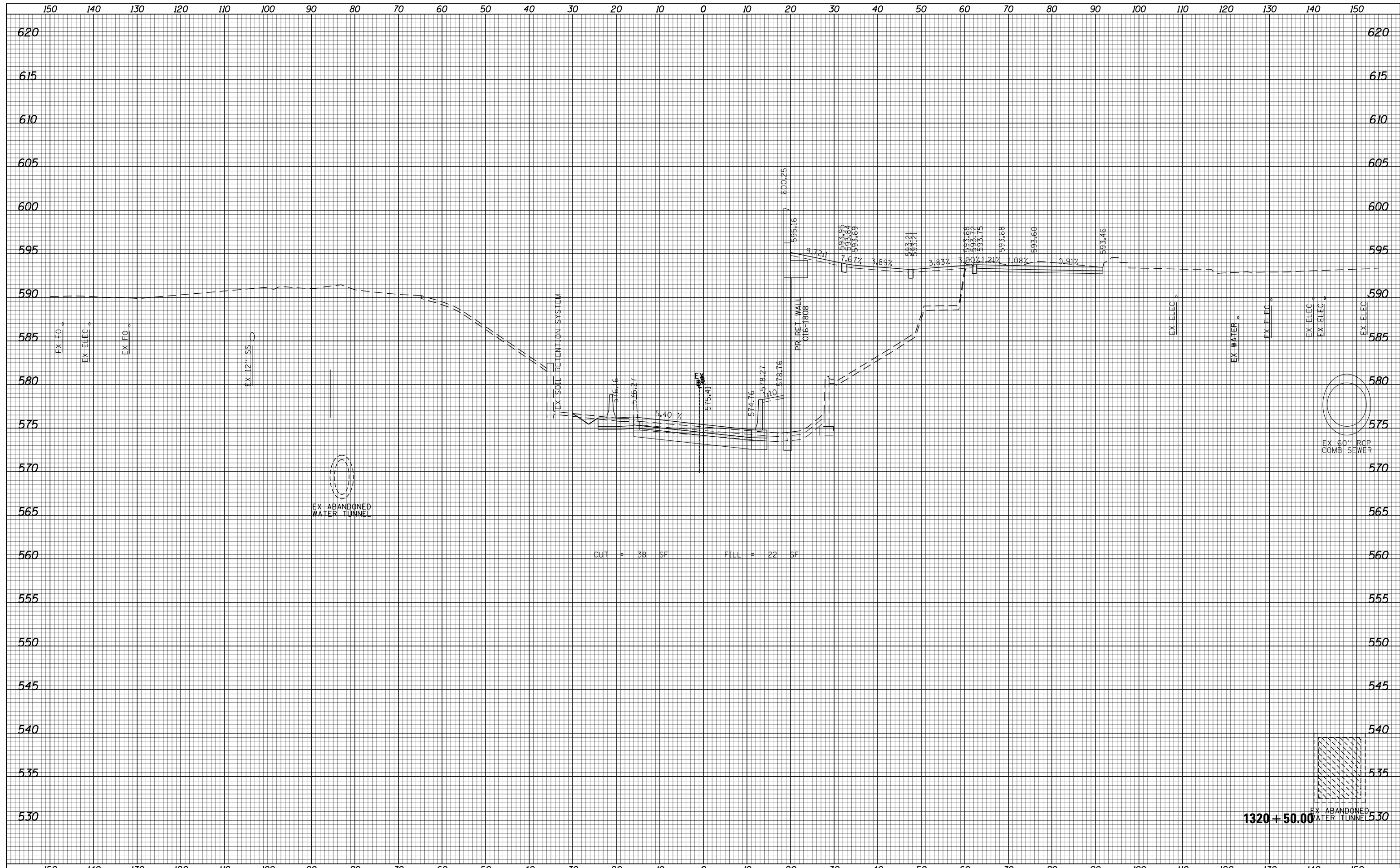
SCALE: 10H 5V SHEET 18 OF 24 SHEETS STA. 1320+25.00 TO STA. 1320+25.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	436
			CONTRACT NO. 60X99	

ILLINOIS FED. AID PROJECT

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

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



CUT = 38 SF FILL = 22 SF

1320+50.00



D160X99-SHT-XSC-02.dgn	DESIGNED - MKW	REVISED -
USER NAME = v1janachione	DRAWN - MKW	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JLM	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
RAMP SW**

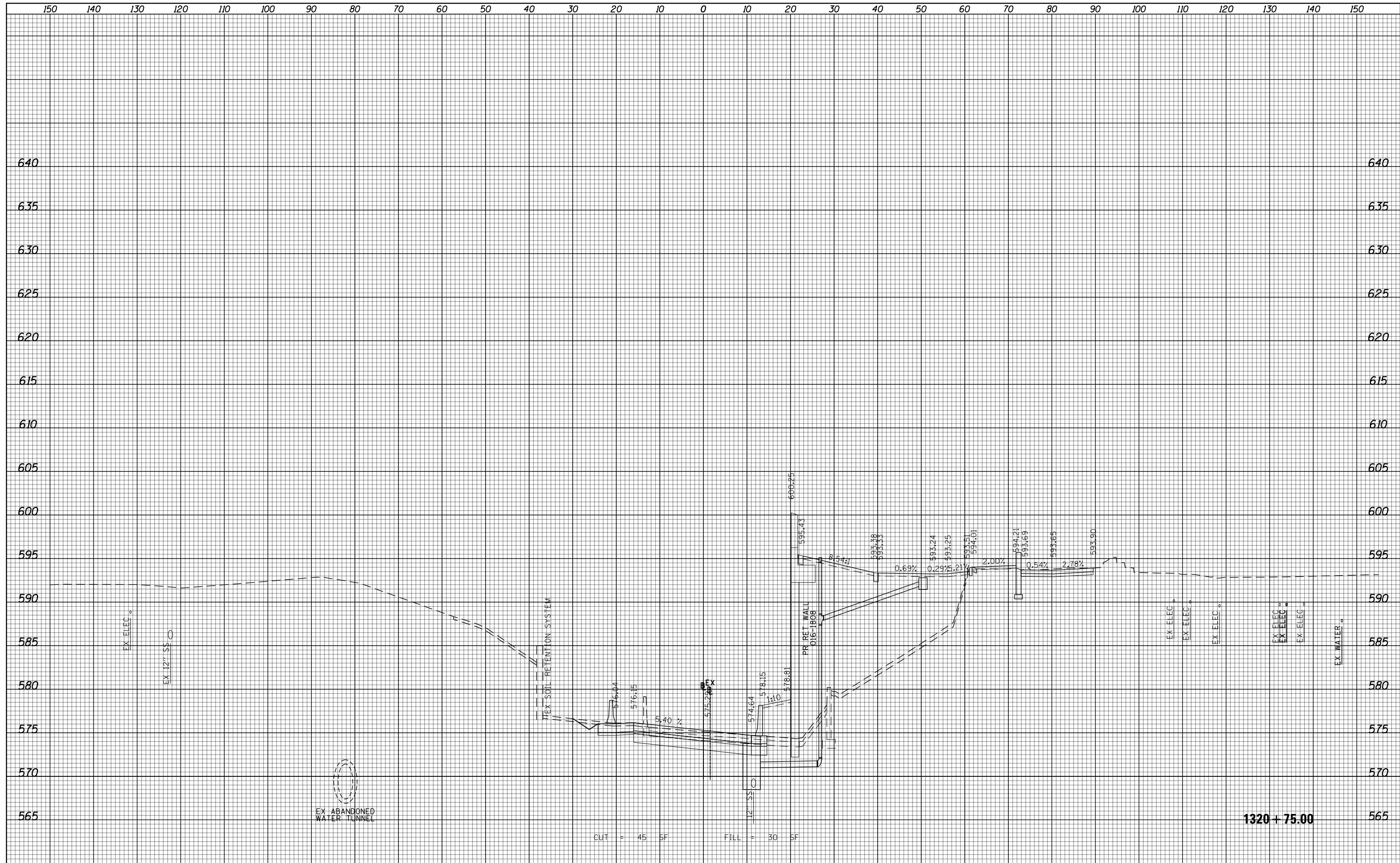
SCALE: 10H 5V SHEET 19 OF 24 SHEETS STA. 1320+50.00 TO STA. 1320+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	437
				CONTRACT NO. 60X99

ILLINOIS FED. AID PROJECT

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

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



D160X99-SHT-XSC-02.dgn	DESIGNED - MKW	REVISED -
USER NAME = v1janachione	DRAWN - MKW	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JLM	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

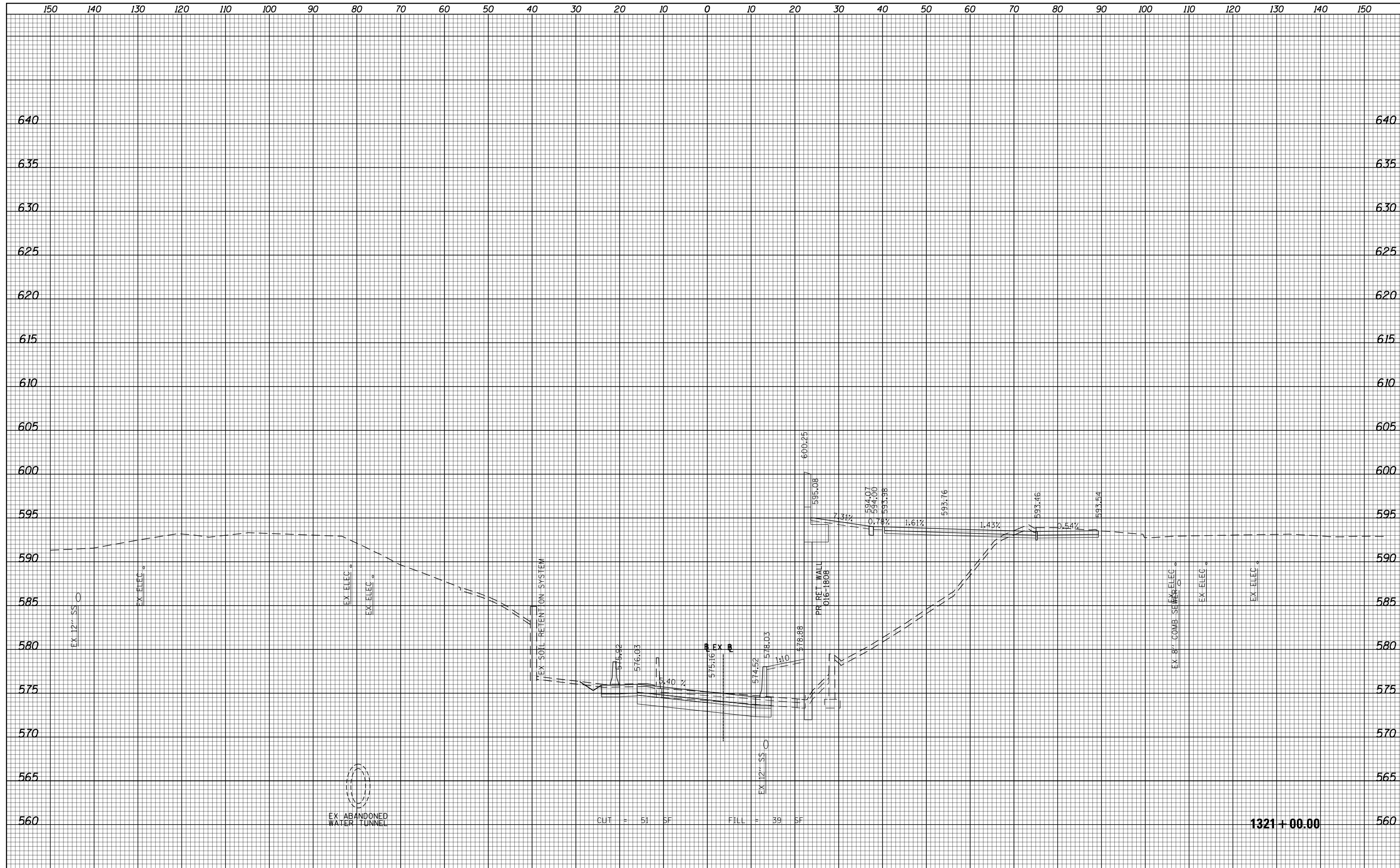
**CROSS SECTIONS
RAMP SW**

SCALE: 10H 5V SHEET 20 OF 24 SHEETS STA. 1320+75.00 TO STA. 1320+75.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	438
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



D160X99-SHT-XSC-02.dgn
 USER NAME = v1janachione
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 12/15/2016

DESIGNED - MKW
 DRAWN - MKW
 CHECKED - JLM
 DATE - 12/14/16

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

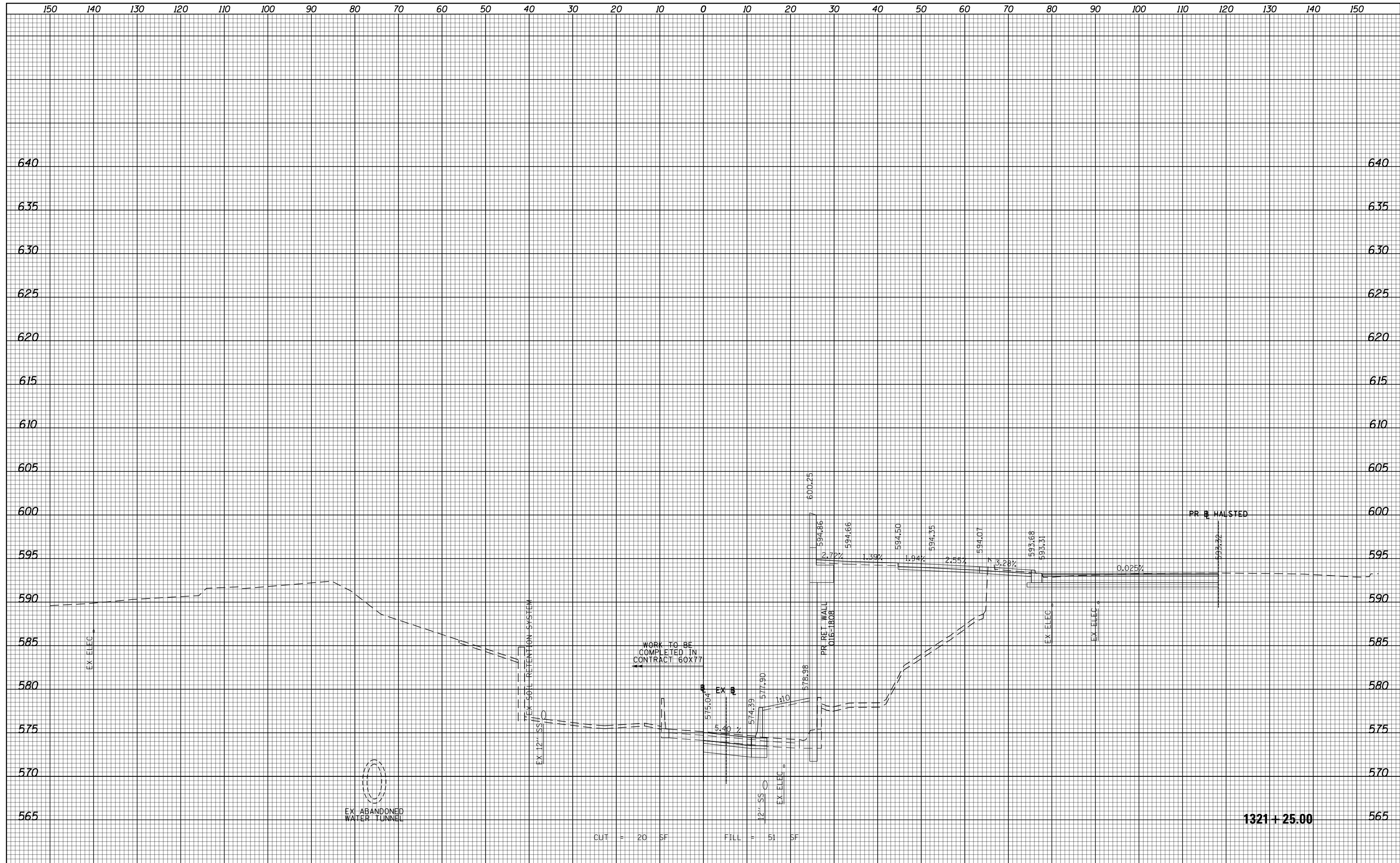
**CROSS SECTIONS
 RAMP SW**

SCALE: 10H 5V SHEET 21 OF 24 SHEETS STA. 1321+00.00 TO STA. 1321+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	439
			CONTRACT NO. 60X99	
ILLINOIS FED. AID PROJECT				

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

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



D160X99-SHT-XSC-02.dgn	DESIGNED - MKW	REVISED -
USER NAME = v1janachione	DRAWN - MKW	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JLM	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

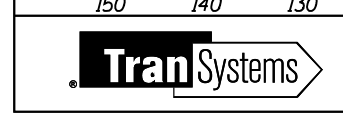
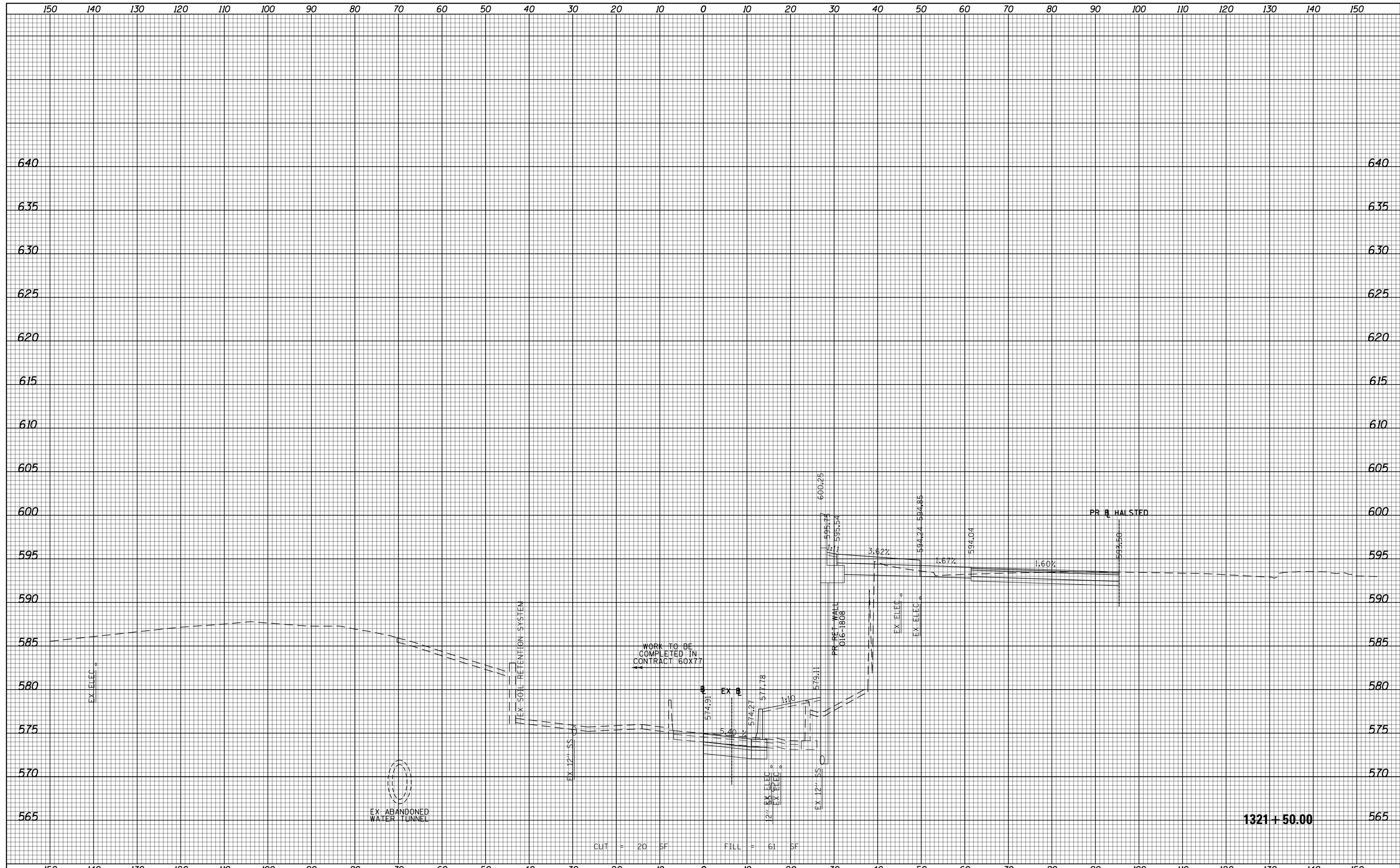
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS RAMP SW			
SCALE: 10H 5V	SHEET 22	OF 24 SHEETS	STA. 1321+25.00 TO STA. 1321+25.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	440
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

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

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



D160X99-SHT-XSC-02.dgn	DESIGNED - MKW	REVISED -
USER NAME = vljanachione	DRAWN - MKW	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JLM	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

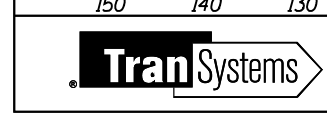
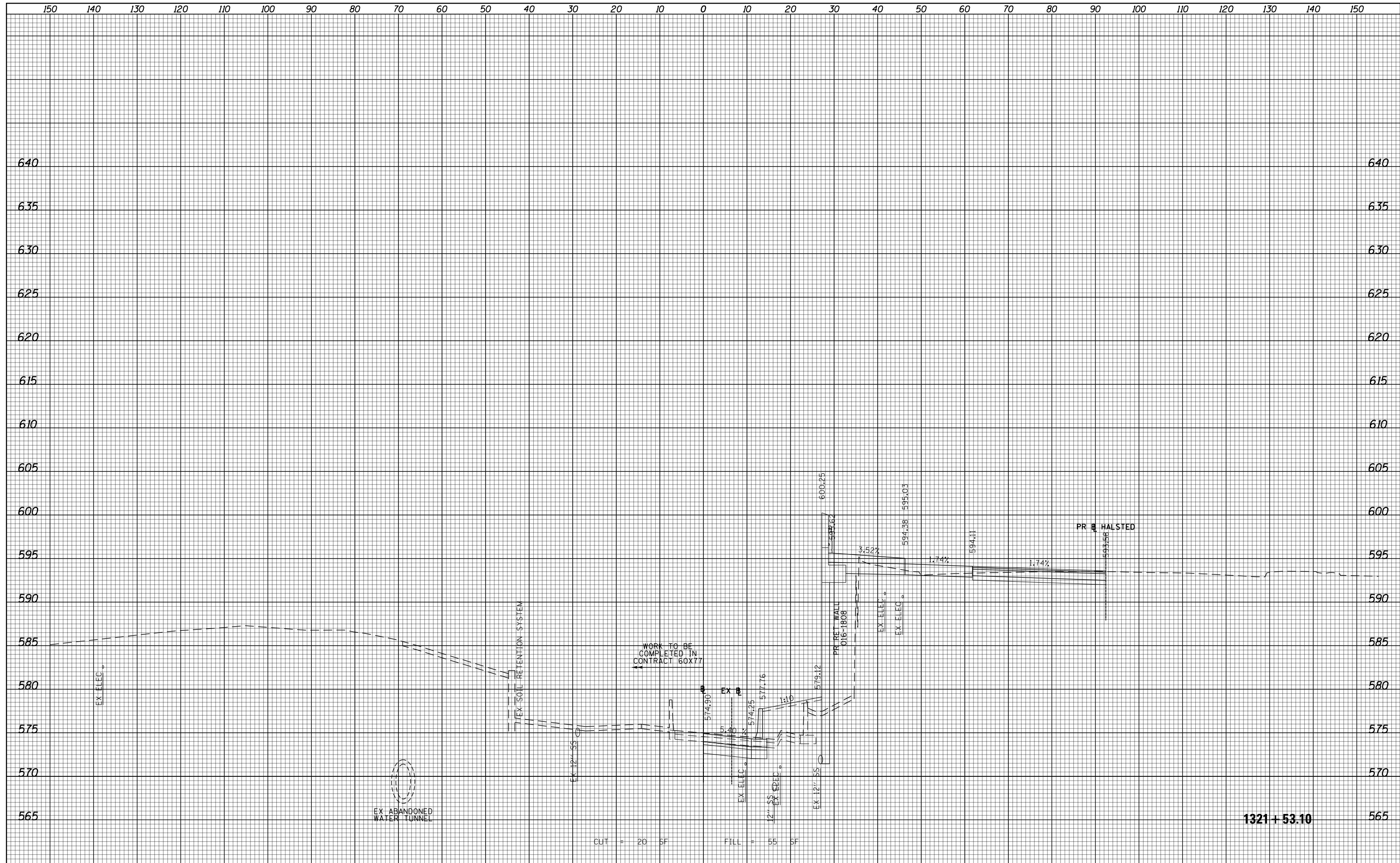
**CROSS SECTIONS
RAMP SW**

SCALE: 10H 5V SHEET 23 OF 24 SHEETS STA. 1321+50.00 TO STA. 1321+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	441
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

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

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



D160X99-SHT-XSC-02.dgn	DESIGNED - MKW	REVISED -
USER NAME = v1janachione	DRAWN - MKW	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JLM	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
RAMP SW**

SCALE: 10H 5V SHEET 24 OF 24 SHEETS STA. 1321+53.10 TO STA. 1321+53.10

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	442
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				