

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.U. ROUTE NO.	SECTION	ILLINOIS PROJECT	CONTRACT NO.	COUNTY	TOTAL SHEETS	SHEET NUMBER
6031	13-00166-00-PV	VCB6(223)	87679	LASALLE	24	1

**PLANS FOR  
PROPOSED LOCAL AGENCY IMPROVEMENT  
SURFACE TRANSPORTATION PROGRAM – URBAN**  
CITY OF OTTAWA - 4H ROAD  
LASALLE COUNTY

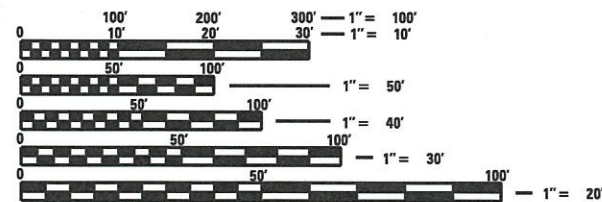
4H RD. - F.A.U. ROUTE 6031 SECTION 13-00166-00-PV  
PROJECT VCB6(223)  
JOB NO. C-93-052-17  
CONTRACT NO. 87679

**INDEX OF SHEETS**

NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES, LEGEND & SUMMARY OF QUANTITIES
3	TYPICAL SECTIONS & CONSTRUCTION DETAILS
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15 - 23	CROSS SECTION SHEETS
24	TRAFFIC CONTROL PLAN DETAIL

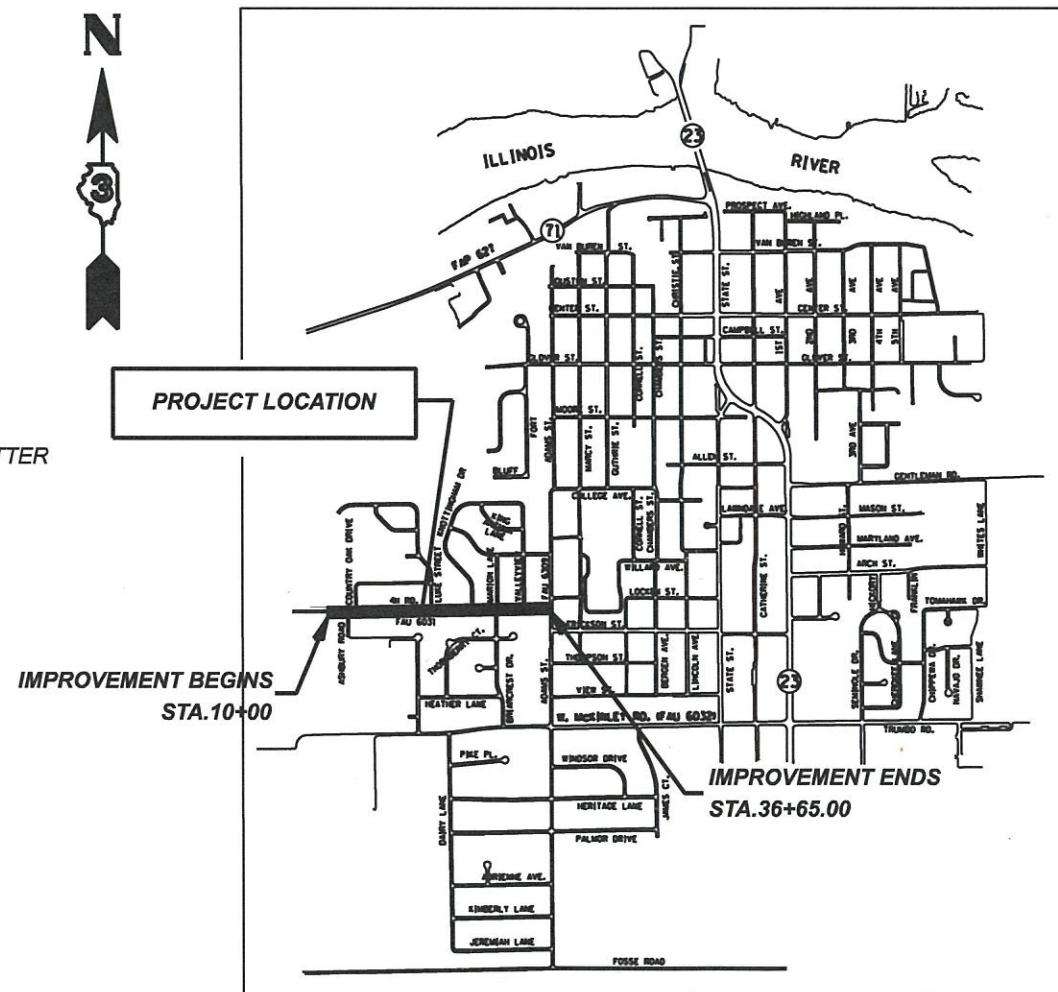
**HIGHWAY STANDARDS**

NO.	DESCRIPTION
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-10	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
602301-04	INLET - TYPE A
602306-03	INLET - TYPE B
602401-04	PRECAST MANHOLE TYPE A 4' DIAMETER
602402	PRECAST MANHOLE TYPE A 5' DIAMETER
602601-05	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS TYPE 1
604006-05	FRAME AND GRATE TYPE 3
606001-07	CONC CURB & GUTTER TY B AND COMB CONC CURB & GUTTER
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-07	TRAFFIC CONTROL DEVICES



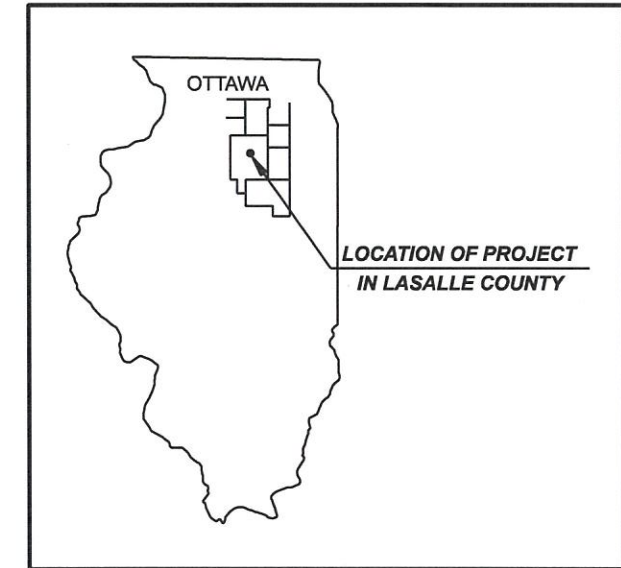
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



**4H ROAD**  
FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR  
ADT (2016) 1,300  
SDT (2028) - 1,500  
DESIGN SPEED 30 MPH  
POSTED SPEED 25 MPH

**LOCATION MAP  
NOT TO SCALE**  
GROSS & NET LENGTH = 2,665.0 FT. = 0.505 MILES



PREPARED BY:

*Daniel C. Bittner* DATE: 12/20/17  
**DANIEL C. BITTNER**  
I.R.P.E. NO. 062-048359  
EXPIRES NOVEMBER 30, 2019



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 12/20/17 20 17  
X *[Signature]* CITY ENGINEER  
1/2 20 18 *[Signature]* DISTRICT ENGINEER OF LOCAL ROADS & STREETS  
1/2 20 18 *[Signature]* REGION 2 ENGINEER

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

**4H ROAD RECONSTRUCTION  
CITY OF OTTAWA, ILLINOIS**

**Renwick & Associates, Inc. - Consulting Engineers**  
Professional Engineers  
Land Surveyors  
1304 Geminii Circle, Suite 4  
Ottawa, Illinois 61350-2823  
Phone 815-434-3200  
Fax 815-434-3968

PROFESSIONAL DESIGN  
FIRM # 184-000711  
DATE PLOTTED:  
DEC. 20, 2017  
DRAWN BY:  
CHECKED BY:  
PROJECT NUMBER:  
16.2.4  
DRAWING FILE:  
R/16.2.4 COVER.DGN  
**SHEET NO.**  
**1 OF 24**

# GENERAL NOTES

1. THE THICKNESS OF HOT-MIX ASPHALT ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE ON WHICH THE HOT-MIX ASPHALT IS PLACED.

2. THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES:

AGGREGATE BASE COURSE, TYPE A & B	2.05	TON/CU YD
BITUMINOUS MATERIALS (PRIME COAT)	0.25	LB/SO FT
FOR AGGREGATE BASES	0.05	LB/SO FT
FOR MILLED HMA & AGED HMA	0.025	LB/SO FT
FOR HMA LIFTS	112	LB5/SO YD/INCH
HOT-MIX ASPHALT SURFACE COURSE, BINDER COURSE AND LEVELING BINDER		

3. ALL SAW CUTTING OF EXISTING PAVEMENTS, CURB & GUTTERS, DRIVEWAYS, AND SIDEWALKS, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE MINIMUM SAW CUT DEPTH SHALL BE AS FOLLOWS UNLESS OTHERWISE SPECIFIED:

ITEM(S)	MINIMUM DEPTH (IN.)
CONCRETE PAVEMENT, CURBS, GUTTERS, & DRIVEWAYS	3"
CONCRETE SIDEWALK	2"
HMA SURFACES	1-1/2"

4. THE CONTRACTOR WILL PROVIDE FOR TEMPORARY DRAINAGE UNTIL THE FINAL SURFACE IS PLACED.

5. EXISTING CASTINGS, FRAMES AND GRATES REMOVED AND NOT SCHEDULED FOR REUSE ARE THE PROPERTY OF THE CITY AND SHALL BE TRANSPORTED TO CITY FACILITIES AS DIRECTED BY THE CITY SUPERINTENDENT IN CHARGE OR THE ENGINEER.

6. THE CONTRACTOR WILL PROTECT ALL TREES AND BUSHES FROM DAMAGE DUE TO HIS OPERATIONS UNLESS SCHEDULED FOR REMOVAL ON PLANS

7. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN BASED IN LARGE PART FROM INFORMATION FURNISHED BY UTILITY COMPANIES AND OTHERS. THE ACTUAL LOCATION OR EXISTENCE MAY BE CONSIDERABLY DIFFERENT. THE ENGINEER DOES NOT WARRANT THE LOCATION OR ANY SPECIFIC INFORMATION CONCERNING UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE CORRECTNESS OF THE SAME PRIOR TO THE START OF CONSTRUCTION BY UNCOVERING UNDERGROUND UTILITIES IN ALL LOCATIONS WHERE HE FEELS THE PROPOSED CONSTRUCTION MAY NEED TO BE ALTERED TO PREVENT CONFLICTS IN LINE, GRADE OR WORKING CLEARANCES. THE CONTRACTOR IS EXPECTED TO WORK ADJACENT TO, BENEATH, ABOVE AND IN CLOSE PROXIMITY TO ALL EXISTING UTILITIES. ANY NECESSARY CHANGES DURING CONSTRUCTION WILL BE DEALT WITH ON A CASE BY CASE BASIS.

SHOULD IT BE NECESSARY TO RELOCATE ANY EXISTING UNDERGROUND UTILITY TO PREVENT LINE OR GRADE CONFLICTS WITH THE NEW CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY ADVISE THE ENGINEER.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED. MEMBERS OF J.U.L.I.E. KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

UTILITY	RELOCATION STATUS
AMEREN IP	PENDING
AT&T	CLEAR
MEDIACOM (CABLE T.V.)	CLEAR
CITY OF OTTAWA (SANITARY & STORM SEWER MAINS)	CONTRACTOR TO UNCOVER SEWER FORCE MAIN PRIOR TO INSTALLATION OF STORM SEWER
CITY OF OTTAWA (WATER MAINS)	CONTRACTOR TO UNCOVER WATER MAIN AT 10 LOCATIONS PRIOR TO INSTALLATION OF STORM SEWER
NICOR GAS	CONTRACTOR TO UNCOVER GAS MAIN AT 3 LOCATIONS PRIOR TO INSTALLATION OF STORM SEWER

9. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

10. THE CONTRACTOR WILL BE FULLY RESPONSIBLE FOR THE RESTORATION OF ANY AND ALL CURB AND GUTTER, DRIVEWAYS, SIDEWALKS, PARKING LOTS AND STREETS DAMAGED OR DESTROYED DURING THE CONSTRUCTION OF THIS PROJECT. ALL CURB AND GUTTER, DRIVEWAYS, SIDEWALKS, PARKING LOTS AND STREETS DAMAGED BY THIS CONTRACTOR'S WORK WILL BE REPAIRED OR REPLACED.

# LEGEND

	PROPOSED STORM SEWER
	EXISTING STORM SEWER
	EXISTING SANITARY SEWER
	EXISTING SANITARY SEWER FORCED MAIN
	EXISTING PIPE UNDERDRAIN
	ROAD CENTERLINE
	EXISTING WATER MAIN
	EXISTING GAS MAIN
	EXISTING FENCE LINE
	PERIMETER EROSION BARRIER
	TOE OF SLOPE
	R.O.W. LINE
	EDGE OF ROAD
	TELEPHONE PEDESTAL
	EXISTING CURB INLET
	LIGHT POLE
	WATER VALVE
	FIRE HYDRANT
	POWER POLE
	GUY WIRE
	DECIDUOUS TREE/W DIAMETER
	EVERGREEN TREE
	SIGN
	MAILBOX
	MANHOLE
	EXISTING INLET/MANHOLE W/TY. 8 GRATE
	PROPOSED MANHOLE
	PROPOSED CURB INLET
	PROPOSED DETECTABLE WARNING
	PAVEMENT CORE & NUMBER
	TOP SOIL & EROSION CONTROL BLANKET
	PROPOSED BUTT JOINT

# SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE: 0004

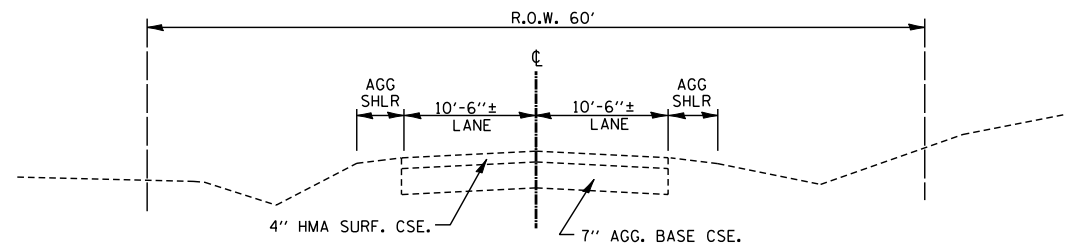
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
* 20200100	EARTH EXCAVATION	CU YD	5,562
20800150	TRENCH BACKFILL	CU YD	869
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	3,550
25000100	SEEDING, CLASS 1	ACRE	0.73
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	66
25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	66
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	66
25100630	EROSION CONTROL BLANKET	SO YD	3,550
28000400	PERIMETER EROSION BARRIER	FOOT	1,790
28000500	INLET AND PIPE PROTECTION	EACH	25
35100100	AGGREGATE BASE COURSE, TYPE A	TON	7,462
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	9
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	23,900
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2,400
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	12
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	249
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1,472
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	855
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	100
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SO YD	1,001
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SO FT	12,389
* 42400800	DETECTABLE WARNINGS	SO FT	60
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	1,236
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	146
44000600	SIDEWALK REMOVAL	SO FT	201
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	6
50104400	CONCRETE HEADWALL REMOVAL	EACH	2
50105220	PIPE CULVERT REMOVAL	FOOT	541
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	993
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	433
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	69
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	173
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	454
55100500	STORM SEWER REMOVAL 12"	FOOT	173
55100700	STORM SEWER REMOVAL 15"	FOOT	225
* 56400510	FIRE HYDRANTS TO BE REMOVED AND REPLACED	EACH	3
* 56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	8
* 60100905	PIPE DRAINS 4"	FOOT	119
* 60100915	PIPE DRAINS 6"	FOOT	309
60218400	MANHOLES, TYPE A, 4' - DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	10
60221100	MANHOLES, TYPE A, 5' - DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
60235700	INLETS, TYPE A, TYPE 3 FRAME & GRATE	EACH	20
60240220	INLETS, TYPE B, TYPE 3 FRAME & GRATE	EACH	3
60255500	MANHOLES TO BE ADJUSTED	EACH	6
60260100	INLETS TO BE ADJUSTED	EACH	1
60266600	VALVE BOXES TO BE ADJUSTED	EACH	9
60500060	REMOVING INLETS	EACH	7
60500090	REMOVING INLETS TO MAINTAIN FLOW	EACH	1
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	5,158
* 60605100	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (AEP)	FOOT	8
66300105	CALCIUM CHLORIDE APPLIED	TON	5
67100100	MOBILIZATION	L SUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
△ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	650
△ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	224
△ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	88
△ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	47
* X0322916	PROPOSED STORM SEWER CONNECTION TO EXISTING STORM SEWER	EACH	2
* X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	5
* X0322936	REMOVE EXISTING FLARED END SECTION	EACH	2
* X0327301	RELOCATE EXISTING MAILBOX	EACH	35
* X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1
* X7240500	RELOCATE EXISTING SIGNS	EACH	20

\* SEE SPECIAL PROVISIONS

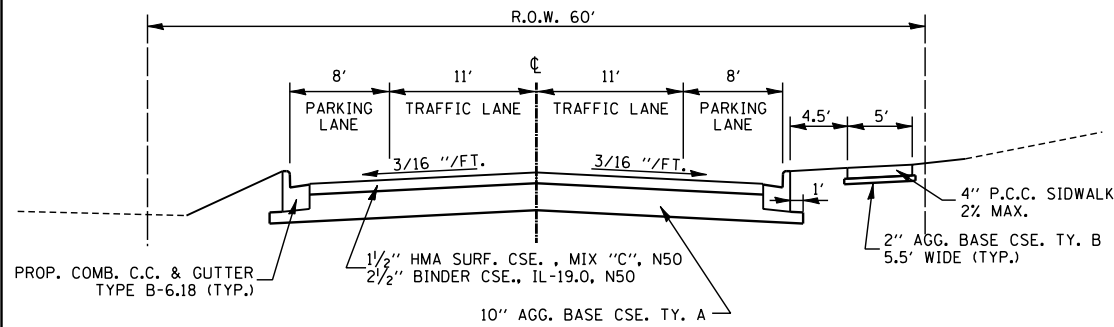
△ SPECIALTY ITEMS

FILE NAME=	DESIGNED -	REVISED -	<b>Renwick &amp; Associates, Inc. - Consulting Engineers</b> 1304 Gemini Circle, Suite 4 Ottawa, Illinois 61350-2823 Phone 815-434-3200 Fax 815-434-3888 Professional Engineers Land Surveyors	<b>4H ROAD ROADWAY RECONSTRUCTION</b> <b>OTTAWA, IL.</b>		F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = DECEMBER 20, 2017	DRAWN -	REVISED -				6031	13-00166-00-PV	LASALLE	24	2
PLOT SCALE = 1"=50'	CHECKED -	REVISED -				CONTRACT NO. 87679 ILLINOIS				
	DATE -	REVISED -								

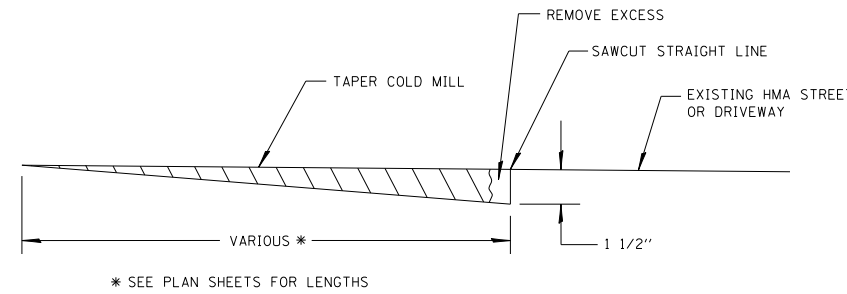




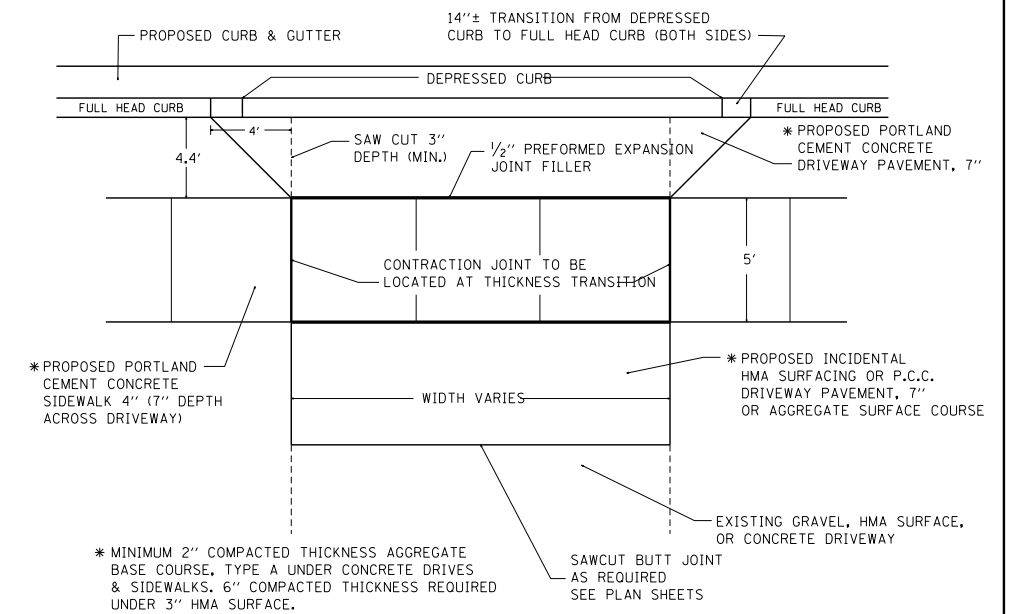
**EXISTING TYPICAL SECTION**  
NOT TO SCALE



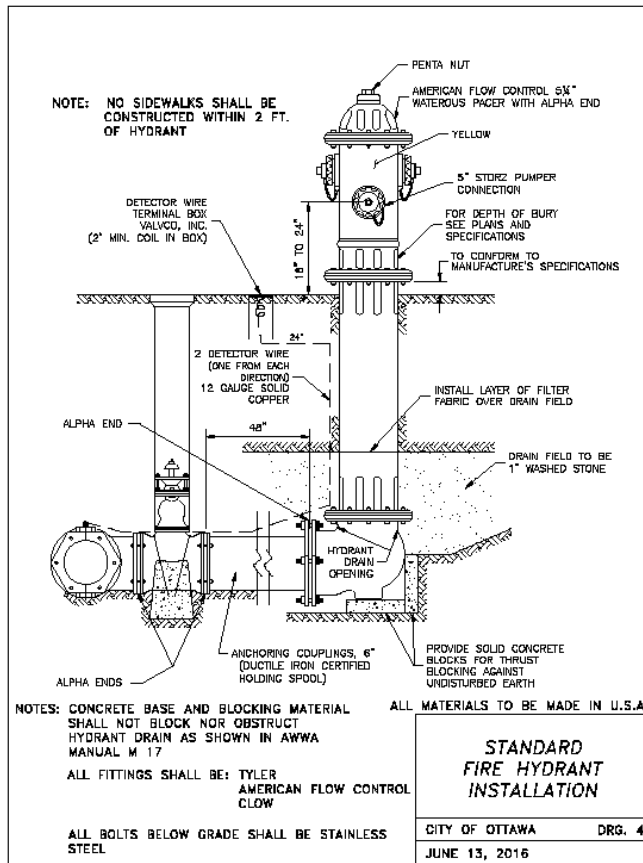
**PROPOSED TYPICAL SECTION**  
NOT TO SCALE



**BUTT JOINT DETAIL**  
NOT TO SCALE

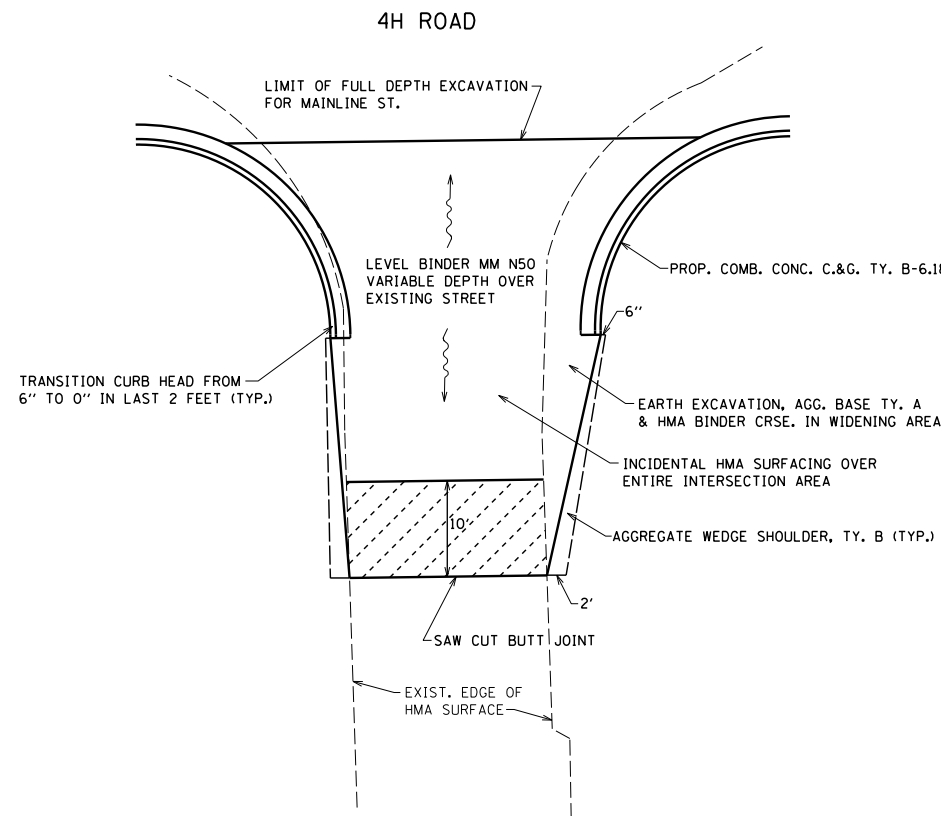


**TYPICAL DRIVEWAY DETAIL (RIGHT)**  
NOT TO SCALE

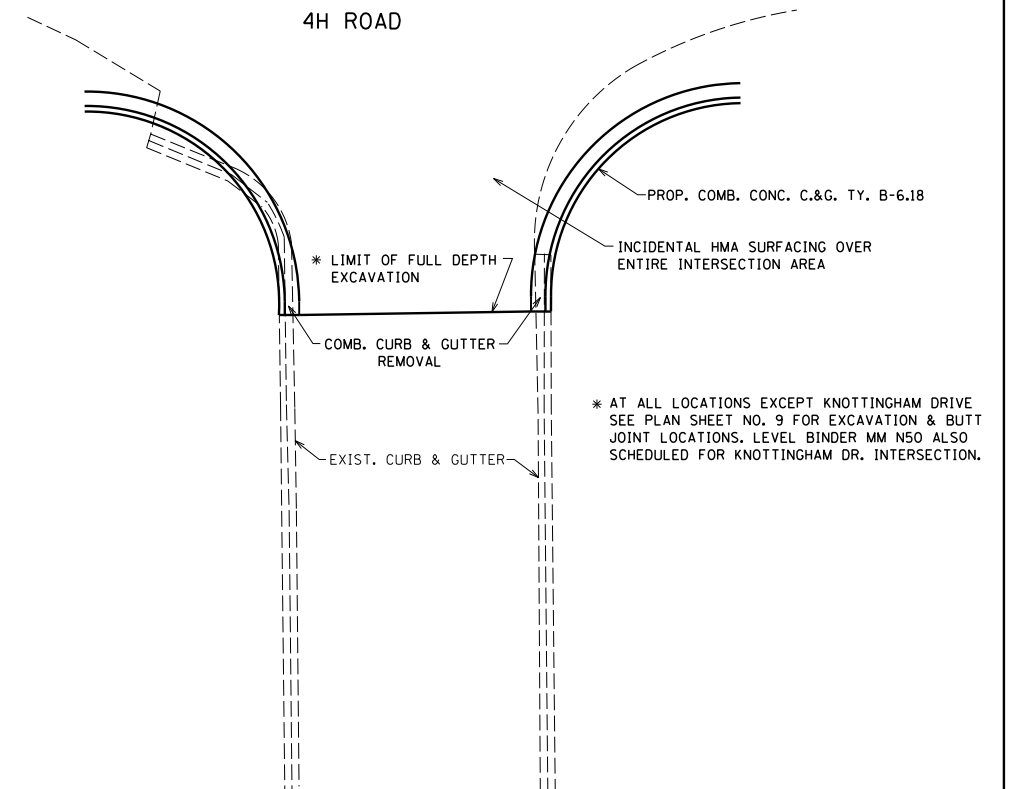


**STANDARD FIRE HYDRANT INSTALLATION**  
CITY OF OTTAWA DRG. 4  
JUNE 13, 2016

**TYPICAL SIDE STREET DETAIL – COUNTRY OAK DR. & LUKE ST.**  
NOT TO SCALE



**TYPICAL SIDE STREET DETAIL FOR STREETS WITH CURB & GUTTER**  
NOT TO SCALE



NOTE: EXISTING AUXILIARY VALVE TO REMAIN IN PLACE.  
NEW FIRE HYDRANT TO BE FURNISHED BY THE CITY OF OTTAWA.

FILE NAME=	DESIGNED -	REVISED -	<b>Renwick &amp; Associates, Inc. – Consulting Engineers</b> 1304 Gemini Circle, Suite 4 Phone 815-434-3200 Professional Engineers Ottawa, Illinois 61350-2823 Fax 815-434-3968 Land Surveyors	<b>4H ROAD ROADWAY RECONSTRUCTION</b> <b>OTTAWA, IL.</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT DATE = DECEMBER 20, 2017	DRAWN -	REVISED -			6031	13-00166-00-PV	LASALLE	24	3	
PLOT SCALE = 1"=50'	CHECKED -	REVISED -			CONTRACT NO. 87679 ILLINOIS					
	DATE -	REVISED -								

SIDEWALK			P.C.C. SIDEWALK, 4"	SIDEWALK REMOVAL	DETECTABLE WARNINGS
STA. TO STA.	LT./RT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.
11+00	13+68	RT.	1,386		
13+61	13+71	RT.		56	
13+63		RT.			10
14+02	30+17	RT.	8,051		
14+08		RT.			10
30+11		RT.			10
30+47	30+60	RT.		50	
30+51	36+11	RT.	2,839		
30+56		RT.			10
36+04		RT.			10
36+65		RT.	113	95	10
<b>TOTALS</b>			<b>12,389</b>	<b>201</b>	<b>60</b>

CURB AND GUTTER			COMB. CONC. C&G, TYPE B-6.18	COMB. CONC. C&G, TYPE B-6.24 (AEP)	COMB. C&G REMOVAL
STA. TO STA.	LT./RT.	FOOT	FOOT	FOOT	FOOT
10+50	13+72	RT.	384.0		
10+50	14+66	LT.	428.4		
13+71		RT.			26.0
13+99	30+20	RT.	1,646.2		
14+00		RT.			26.0
14+93	23+05	LT.	836.3		
23+32	27+57	LT.	448.3		
27+57		LT.			4.0
27+84	30+37	LT.	276.3		
27+84		LT.			5.0
30+37		LT.			10.0
30+48	36+13	RT.	580.4		
30+64	33+27	LT.	286.6		
30+64		LT.			10.0
33+27		LT.			9.0
33+54	36+14	LT.	271.5		
33+54		LT.			10.0
35+93	36+14	RT.			26.0
36+01	36+14	RT.			12.0
36+55		RT.		8.0	8.0
<b>TOTALS</b>			<b>5,158.0</b>	<b>8.0</b>	<b>146.0</b>

STORM STRUCTURES			MANHOLES TY. A, 4'DIA., TY.1 FR, CLOSED LID	MANHOLES TY. A, 5'DIA., TY.1 FR, CLOSED LID	PROP. STORM SEWER CONNECTION TO EX. STM. STR.	INLETS TY. A, 2' DIA. TY. 3 FR.&GR.	INLETS TY. B, 3' DIA. TY. 3 FR.&GR.	REMOVE EXISTING FES	REMOVING INLET	MANHOLES TO BE ADJUSTED	INLETS TO BE ADJUSTED	REMOVING INLET TO MAINTAIN FLOW	INLET & PIPE PROTECTION
STA. TO STA.	LT./RT.	EACH	EACH	EACH	EACH	EACH	EACH	FOOT	EACH	EACH	EACH	EACH	EACH
10+00	11+30	RT			1								1
	12+30	RT							2				
11+30		LT & RT	1			2							2
12+38		RT						2					
12+38	13+71	RT		1									
13+71		LT & RT	1			1	1						2
13+71	14+00	RT				1							1
15+20		LT & RT	1			2							2
17+70		LT & RT	1			2							2
19+45		RT	1			1							1
20+50	22+25	LT & RT							2				
22+60	22+80	RT				1							1
22+80		LT & RT	1			1	1						2
23+53		LT & RT	1			1							1
25+30		LT & RT	1			2							2
28+30	29+98	RT	1										
29+98		RT	1		2	1			1				1
29+98	30+16	LT & RT				1				1			1
32+80	33+01	LT & RT				2							2
33+01		LT & RT					1						2
33+01	33+35	LT			1		1		1			1	
35+35	35+80	RT							1				
35+80	36+05	LT & RT			1		1				1		2
<b>TOTALS</b>			<b>10</b>	<b>1</b>	<b>5</b>	<b>20</b>	<b>3</b>	<b>2</b>	<b>7</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>25</b>

THICKNESS CHECKS & DYNAMIC PENETROMETER ANALYSIS

Core Number	Location Station - Offset	Bituminous	Aggregate Thickness	Subsoil	00" - 18" IBV	18" - 28" IBV	28" to 48" IBV	18" to 30" IBV	30" to 40" IBV	10" to 20" IBV	20" to 30" IBV	6" to 20" IBV	20" to 60" IBV
C1	12+50 4' RT	4.25"	8.75"	Black SIC	10.4	12.6	11.6						
C2	15+50 4' RT	4.50"	5.50"	Black SIC									
C3	19+25 9' LT	4.50"	8.50"	Black SIC									
C4	22+50 6' RT	4.75"	6.75"	Black SIC				25.7	7.3	40.9	24.8		
C5	26+00 4' RT	4.50"	6.00"	Black SIC									
C6	29+50 8' LT	3.00"	6.50"	Black SIC									
C7	32+75 5' RT	3.25"	5.75"	Black SIC									
C8	33+75 2' LT	5.00"	6.00"	Black SIC								17.1	22.2
C9	34+75 9' LT	5.00"	13.00"	Black SIC									

Comments: IBV = Immediate Bearing Value

HMA MIXTURE REQUIREMENT TABLE				
LOCATION(S):	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA BINDER COURSE	HMA LEVEL BINDER	HMA SURFACE	HMA INCIDENTAL
BINDER GRADE (PG)	PG 64-22	PG 64-22	PG 64-22	PG 64-22
Design Air Voids:	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
Mixture Composition: (Mixture Gradation)	IL 19.0	IL 9.5	IL 9.5	IL 9.5
Friction Aggregate			Mixture C	
Mixture Weight:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
Quality Management Program	OQOA	OQOA	OQOA	OQOA
Sublot Size:	NA	NA	NA	NA
Density Test Method:	LR 1030	Satisfaction of Engineer	LR 1030	Satisfaction of Engineer

PAVEMENT DESIGN DATA

CONVENTIONAL FLEXIBLE PAVEMENT WITH A 80,000 LB. LOAD LIMIT

CLASS III ROAD  
 ADT (2016) 1,300  
 DESIGN SPEED 30 MPH  
 DESIGN PERIOD - 20 YEARS  
 SDT (2028) - 1,500  
 PERCENT OF SDT PV = 95.0% SU = 4% MU = 1%  
 PV = 1,425 SU = 60 MU = 15  
 TRAFFIC FACTOR = 0.13 (BLRS MANUAL FIGURE 44-3B)  
 HMA THICKNESS REQUIRED = 3.9" (BLRS MANUAL FIGURE 44-3H)  
 PAVEMENT STRUCTURE ENHANCEMENT FOR POOR BASE (BLRS MANUAL FIGURE 44-3I)  
 INCREASE TYPE A AGGREGATE BASE THICKNESS BY 2"  
 FINAL PAVEMENT STRUCTURE = 4" HMA  
 10" AGGREGATE BASE COURSE, TYPE A

STORM SEWER		STORM SEWERS CL.A, TY.1 12"	STORM SEWERS CL.A, TY.1 15"	STORM SEWERS CL.A, TY.1 18"	STORM SEWERS CL.A, TY.2 18"	STORM SEWERS CL.A, TY.2 24"	PIPE DRAINS, 4"	PIPE DRAINS, 6"	PROP. STORM SEWER CONNECTION TO EX. STM. SWR.	STORM SEWER REMOVAL, 12"	STORM SEWER REMOVAL, 15"	PIPE CULVERT REMOVAL	TRENCH BACKFILL
STA. TO STA.	LT./RT.	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	FOOT	FOOT	FOOT	CU YD
10+00	11+30	RT		133									19.8
10+05	12+30	RT									225		27.2
11+30		LT & RT	30										5.2
11+30	12+38	RT		104									21.0
12+38		RT	46					2					6.0
12+38	13+71	RT		129								33	37.9
13+00		RT					24	86					17.2
13+71		LT & RT	35										6.1
13+71	14+00	RT	28										4.8
13+71	15+20	RT	145									55	39.6
15+20		LT & RT	30										5.2
15+20	17+70	RT	246										47.7
17+70		LT & RT	30										5.5
17+70	19+45	RT	171									55	7.3
19+45		RT	19										3.5
20+50	22+25	LT & RT								105		55	21.1
22+60	22+80	RT	18										2.7
22+80		LT & RT	30										6.6
22+80	23+53	RT		69								27	21.3
23+53		LT & RT	21										4.1
23+53	25+30	RT			173							27	65.5
25+30		LT & RT	30										5.6
25+30	28+30	LT & RT				276						142	229.6
25+30		RT					87	95					28.4
28+30	29+98	RT				168						30	146.1
28+70		RT					8	128					21.2
29+98		RT	5					10					9.3
29+98	30+16	LT & RT	28										5.2
32+80	33+01	LT & RT	40										6.0
33+01		LT & RT		35									5.4
33+01	33+35	LT		32								24	20.0
33+80		RT										35	4.8
35+35	35+80	RT										46	6.1
35+80	36+05	LT & RT	41							44			6.2
<b>TOTALS</b>			<b>993</b>	<b>433</b>	<b>69</b>	<b>173</b>	<b>454</b>	<b>119</b>	<b>309</b>	<b>2</b>	<b>173</b>	<b>225</b>	<b>541</b>

FILE NAME=	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT DATE = DECEMBER 20, 2017	CHECKED -	REVISED -
PLOT SCALE = 1"=50'	DATE -	REVISED -

**Renwick & Associates, Inc. - Consulting Engineers**  
 1304 Gemini Circle, Suite 4  
 Ottawa, Illinois 61350-2823  
 Phone 815-434-3200  
 Fax 815-434-3968  
 Professional Engineers  
 Land Surveyors

**4H ROAD ROADWAY RECONSTRUCTION**  
**OTTAWA, IL.**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6031	13-00166-00-PV	LASALLE	24	4
CONTRACT NO. 87679 ILLINOIS				

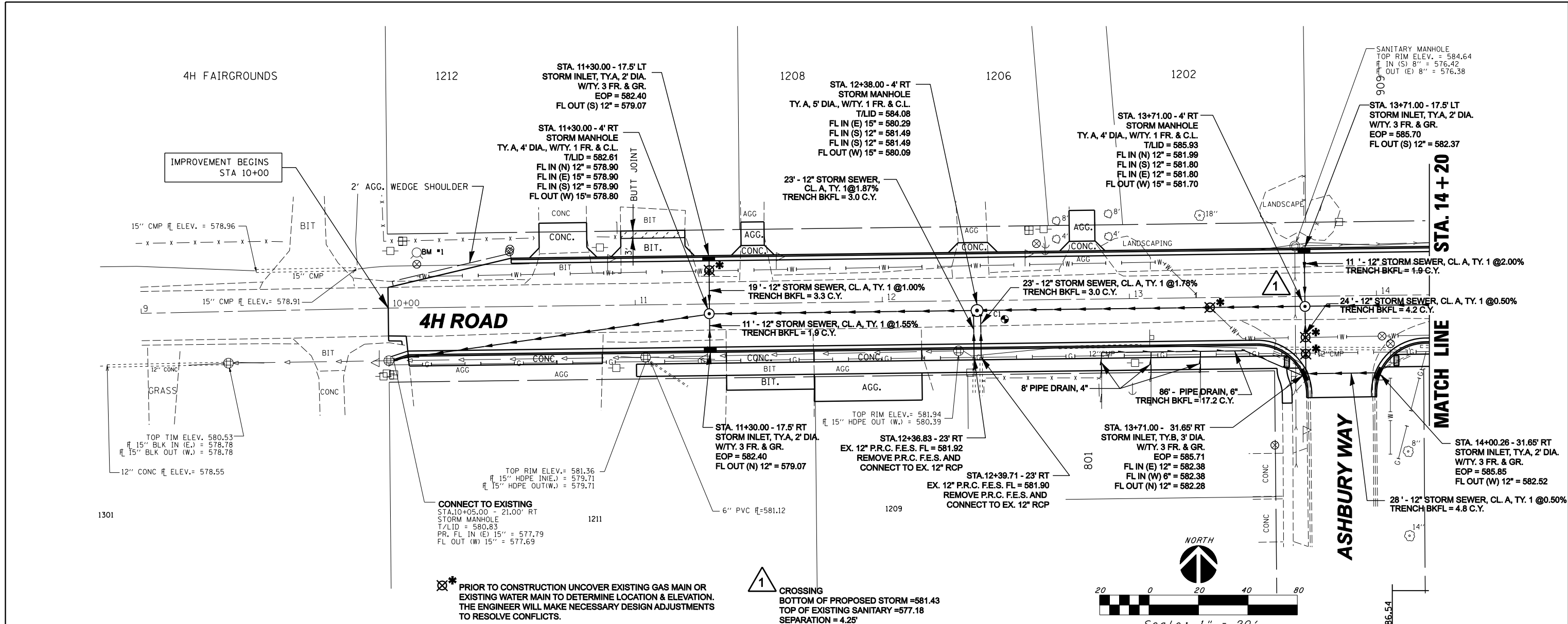
ROADWAY EXCAVATION AND PAVING		EARTH EXCAVATION	AGG. BASE TYPE A	LEVEL BINDER (MM) N50	HMA SURF REMOVAL BUTT JNT.	HMA BINDER COURSE	HMA SURFACE COURSE	INCIDENTAL HMA SURFACING
STATION	LT./RT.	CU. YD.	TON	TON	SQ. YD.	TON	TON	TON
10+00 TO 36+00	Mainline Roadway	4,794.3	6,462.0			1,411.5		
10+00 TO 36+27	Mainline Surface						855.4	
11+00 TO 36+10	Sidewalk RT.	300.8	592.5					
13+85	Ashbury Int.	30.5	52.5			12.1		7.3
14+83	Country Oak Int.	17.4	23.4	7.1	22.8	4.9		12.7
23+17	Luke Int.	13.7	16.2	3.1	24.5	3.2		11.7
27+71	Knottingham Int.	11.0	26.0	1.5	17.7	5.6		6.9
30+34	Briarcrest Int.	45.9	50.2			11.5		6.9
30+51	Marion Int.	45.9	50.0			11.5		6.9
33+40	Valley View Int.	48.8	50.2			11.5		6.9
36+00 TO 36+27	Adams Int.		2.1		155.1			4.6
<b>TOTALS</b>		<b>5,308.3</b>	<b>7,325.1</b>	<b>11.7</b>	<b>220.1</b>	<b>1,471.8</b>	<b>855.4</b>	<b>63.9</b>

DRIVEWAYS		EARTH EXCAVATION	DRIVEWAY PAVEMENT REMOVAL	HMA SURF REMOVAL BUTT JNT.	P.C.C. DRIVEWAY PAVEMENT, 7"	INCIDENTAL HMA SURFACING	AGG. SURF. TYPE B	AGG. BASE TYPE A
STATION	LT./RT.	CU. YD.	SQ. YD.	SQ. YD.	SQ. YD.	TON	TON	TON
10+68	RT	9.7			34.8			4.0
10+71	LT	2.7	30.6		31.8			3.6
11+07	LT			8.7		6.8		1.6
11+48	LT	1.0			5.8		1.4	0.7
11+54	RT	5.7	60.8		17.5	4.0		2.0
11+94	RT	21.1			21.4			
12+37	LT	1.6			6.9			0.8
12+82	LT	1.1			6.3		1.0	0.7
14+40	RT	21.8	114.7		75.7			8.6
15+64	RT	6.3	42.0		26.4			3.0
15+80	LT		41.6		43.0			4.9
16+14	LT		19.1		20.8			2.4
16+49	RT	1.9	21.8		10.4	0.6		1.2
16+78	RT	8.1	42.4		35.6			4.1
17+44	LT	0.8			13.9		4.0	1.6
18+21	RT	8.9	35.3		6.6	2.8		6.6
18+93	LT	1.9	34.1		48.3			5.5
19+12	RT	6.5	24.0		25.0			2.8
19+25	LT	1.5			15.1		0.7	0.2
19+80	RT	1.9	14.8		6.8	0.6		0.8
20+00	RT	4.0	32.3		10.4	2.1		1.2
20+14	LT			8.6		2.1		1.4
20+76	RT	5.1	42.6		19.3			2.2
21+64	RT	8.2	58.7		39.2			4.5
21+77	LT			5.4		3.6		0.6
22+03	LT			3.0		1.7		0.4
22+64	LT			3.2		3.4		0.3
23+06	RT	10.3	39.7		35.4			4.0
23+45	RT	11.0	45.7		44.4			5.1
24+58	RT	6.6	33.7		30.8			3.5
24+96	RT	2.5	18.4		15.6			1.8
25+75	RT	7.9	39.0		35.3			4.0
26+17	LT	0.6			7.0		1.7	0.2
26+94	RT	10.5	82.0		41.5			4.7
27+62	RT	4.2	25.6		20.6			2.3
28+05	RT	4.4	26.0		19.3			2.2
29+06	RT	12.0	44.2		43.0			4.9
32+26	LT	25.8	95.0		86.7			9.9
33+87	RT	15.6	49.6		11.8	4.1		9.8
34+06	LT	5.5	41.5		29.4			3.3
35+22	LT	8.3	40.0		47.5			5.4
35+56	RT	8.8	40.5		11.8	4.1		9.7
<b>TOTALS</b>		<b>253.8</b>	<b>1235.7</b>	<b>28.9</b>	<b>1001.1</b>	<b>35.9</b>	<b>8.8</b>	<b>136.5</b>

ADJUSTMENTS		MANHOLES TO BE ADJUSTED	VALVE BOXES TO BE ADJUSTED	DOM. WATER SERVICE BOXES TO BE ADJUSTED	FIRE HYDRANT REMOVAL & REPLACEMENT	RELOCATE EXISTING MAILBOXES	RELOCATE EXISTING SIGNS
STATION	LT./RT.	EACH	EACH	EACH	EACH	EACH	EACH
10+50	LT			2			
10+89	LT					1	
11+29	RT					1	
11+57	LT					1	
12+35	RT						
12+63	LT			1			
12+58	LT					1	
13+02	RT						
13+09	RT						1
13+66	RT						1
13+67	LT	1					
14+01	RT						1
14+02	RT		1				
14+05	RT		1				
14+58	RT		1				
14+59	RT					1	
14+62	RT				1		
14+62	LT						1
14+65	RT		1				
14+65	LT						1
14+97	LT	1					
15+56	LT					1	
15+78	RT					1	
16+29	LT					1	
16+63	RT					1	
16+66	RT					1	
17+21	LT					1	
18+27	LT	1					
18+39	RT					1	
18+42	RT		1		1		
18+81	LT					1	
18+96	RT					1	
19+39	LT					1	
19+61	RT					1	
19+87	RT						1
20+19	RT					1	
20+32	LT					1	
20+97	RT					1	
21+54	RT						
21+60	LT					1	
21+80	RT					1	
21+92	LT	1					
22+14	LT					1	
22+53	RT		1		1		
22+64	RT			1			
22+86	RT						
22+90	RT					1	
23+01	LT						1
23+18	RT						
23+30	RT					1	
23+42	RT			1			
23+45	LT		2				
23+54	LT						1
24+40	RT					1	
24+41	LT						1
24+73	RT						
24+82	RT					1	
25+08	RT			1			
25+88	RT					1	
26+08	LT					1	
26+56	RT						
27+08	RT					1	
27+45	RT					1	
27+53	LT						1
27+89	RT					1	
27+98	LT						1
28+15	RT			1			
28+33	RT						1
28+89	RT					1	
28+98	RT			1			
29+40	RT						
30+16	RT						1
30+34	LT						
30+68	LT						1
30+70	RT						
31+26	RT						1
31+85	LT						1
31+96	RT						
32+52	LT					1	
33+17	LT						1
33+21	LT						1
33+60	RT		1				
33+61	RT						
34+36	RT					1	
34+90	RT						
34+90	LT						1
35+23	RT					1	
35+52	LT						1
35+89	RT						1
<b>TOTALS</b>		<b>4</b>	<b>9</b>	<b>8</b>	<b>3</b>	<b>35</b>	<b>20</b>

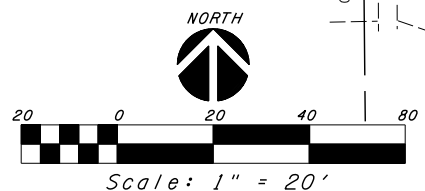
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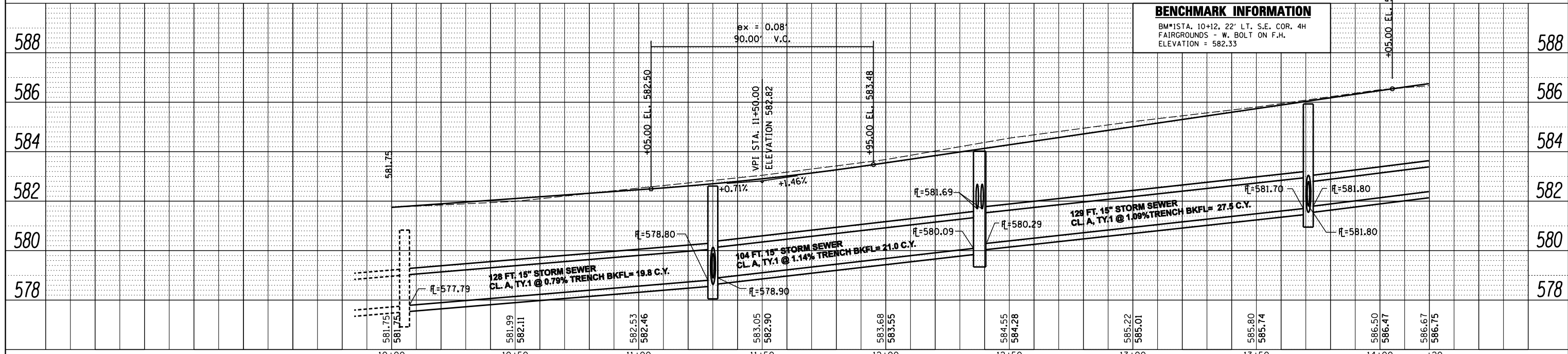


✱ PRIOR TO CONSTRUCTION UNCOVER EXISTING GAS MAIN OR EXISTING WATER MAIN TO DETERMINE LOCATION & ELEVATION. THE ENGINEER WILL MAKE NECESSARY DESIGN ADJUSTMENTS TO RESOLVE CONFLICTS.

1 CROSSING  
BOTTOM OF PROPOSED STORM = 581.43  
TOP OF EXISTING SANITARY = 577.18  
SEPARATION = 4.25'



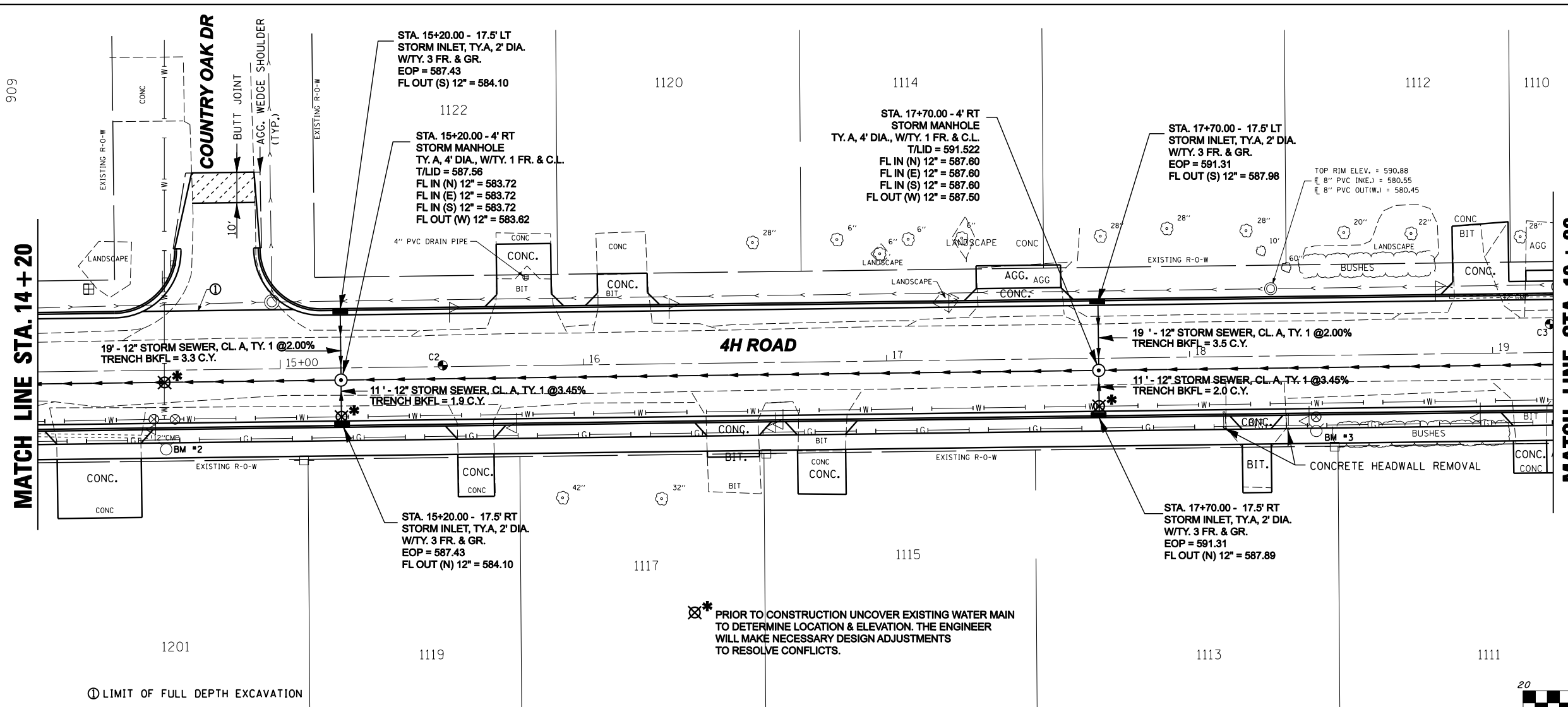
**BENCHMARK INFORMATION**  
BM\*1 STA. 10+12, 22' LT. S.E. COR. 4H FAIRGROUNDS - W. BOLT ON F.H. ELEVATION = 582.33



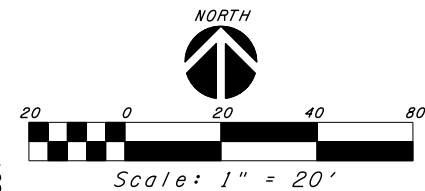
FILE NAME =	REVISIONS	REVISIONS	<b>Renwick &amp; Associates, Inc. - Consulting Engineers</b> 1304 Gemini Circle, Suite 4      Phone 815-434-3200      Professional Engineers Ottawa, Illinois 61350-2823      Fax 815-434-3968      Land Surveyors	<b>4H ROAD ROADWAY RECONSTRUCTION</b> OTTAWA, IL.		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = DECEMBER 20, 2017	DRAWN -	REVISIED -				6031	13-00166-00-PV	LASALLE	24	6
PLOT SCALE = 1"=20'	CHECKED -	REVISIED -				CONTRACT NO. 87679 ILLINOIS				
	DATE -	REVISIED -				SCALE: 1" = 20'      STA. 9+00 TO STA. 14+20				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
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	NO.		
	FILE NAME		

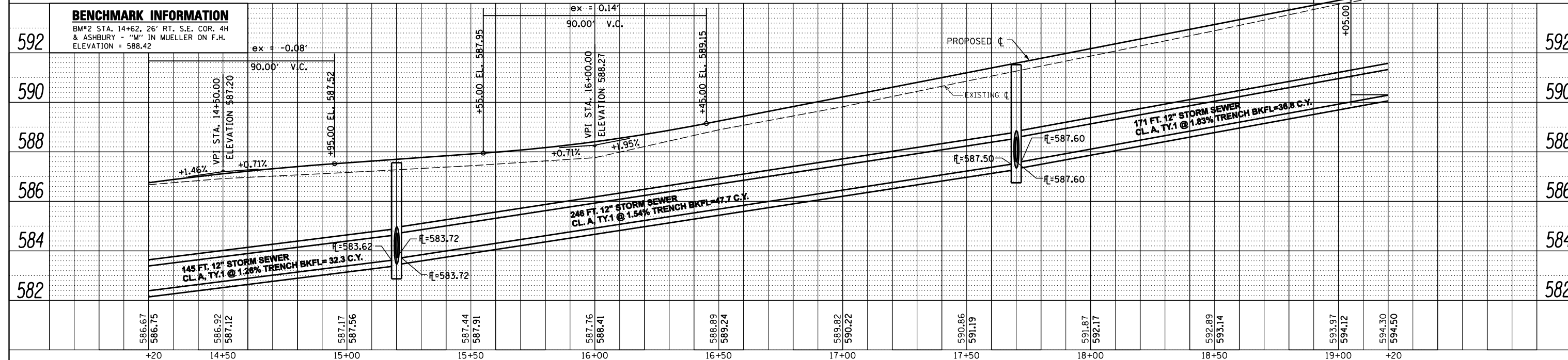
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	NO.		
	NOTATION		



⊗ PRIOR TO CONSTRUCTION UNCOVER EXISTING WATER MAIN TO DETERMINE LOCATION & ELEVATION. THE ENGINEER WILL MAKE NECESSARY DESIGN ADJUSTMENTS TO RESOLVE CONFLICTS.



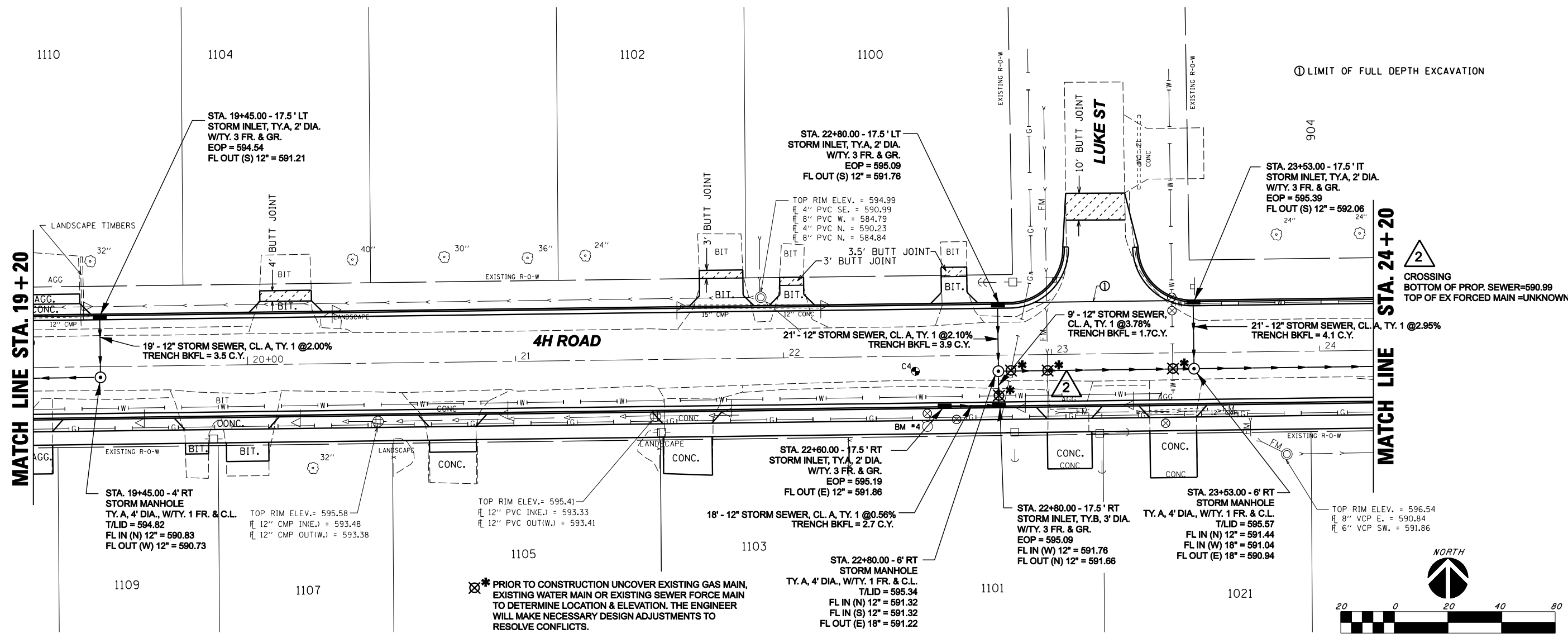
**BENCHMARK INFORMATION**  
 BM#3 STA. 18+42, 25' RT. 1113 4H RD. - "M" IN MUELLER ON F.H. ELEVATION = 595.35



FILE NAME =	DESIGNED -	REVISED -	<b>Renwick &amp; Associates, Inc. - Consulting Engineers</b> 1304 Gemini Circle, Suite 4 Ottawa, Illinois 61350-2823 Phone 815-434-3200 Fax 815-434-3988 Professional Engineers Land Surveyors	<b>4-H ROAD ROADWAY RECONSTRUCTION</b> OTTAWA, IL. SCALE: 1" = 20' SHEET NO. 4 OF 17 SHEETS STA. 14+20 TO STA. 19+20		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = DECEMBER 20, 2017	DRAWN -	REVISED -				6031	13-00166-00-PV	LASALLE	24	7
PLOT SCALE = 1"=20'	CHECKED -	REVISED -				CONTRACT NO. 87679 ILLINOIS				
	DATE -	REVISED -								

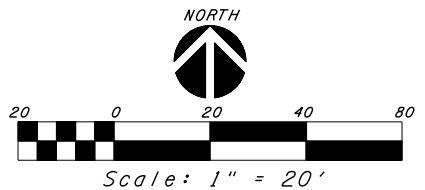
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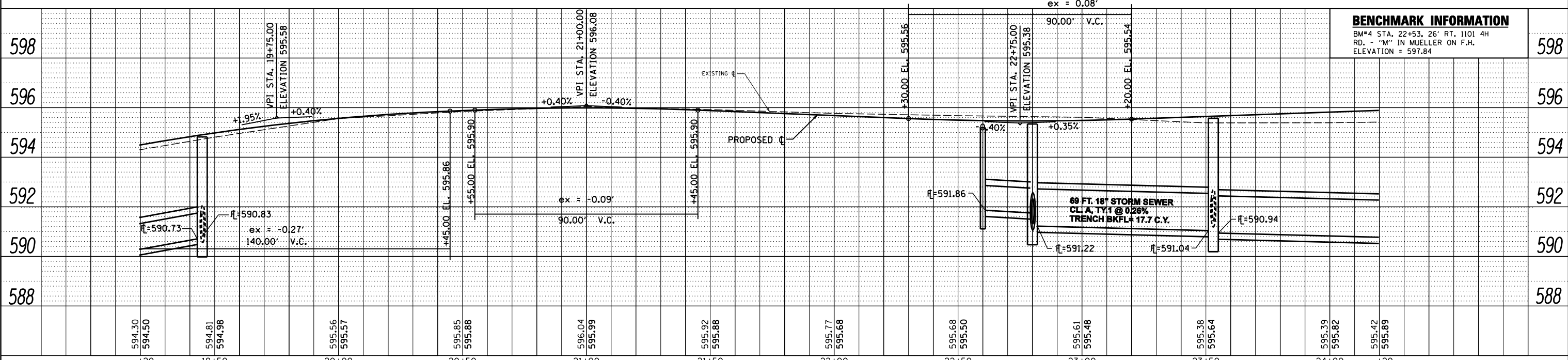


① LIMIT OF FULL DEPTH EXCAVATION

**2**  
CROSSING  
BOTTOM OF PROP. SEWER=590.99  
TOP OF EX FORCED MAIN=UNKNOWN



✕\* PRIOR TO CONSTRUCTION UNCOVER EXISTING GAS MAIN, EXISTING WATER MAIN OR EXISTING SEWER FORCE MAIN TO DETERMINE LOCATION & ELEVATION. THE ENGINEER WILL MAKE NECESSARY DESIGN ADJUSTMENTS TO RESOLVE CONFLICTS.



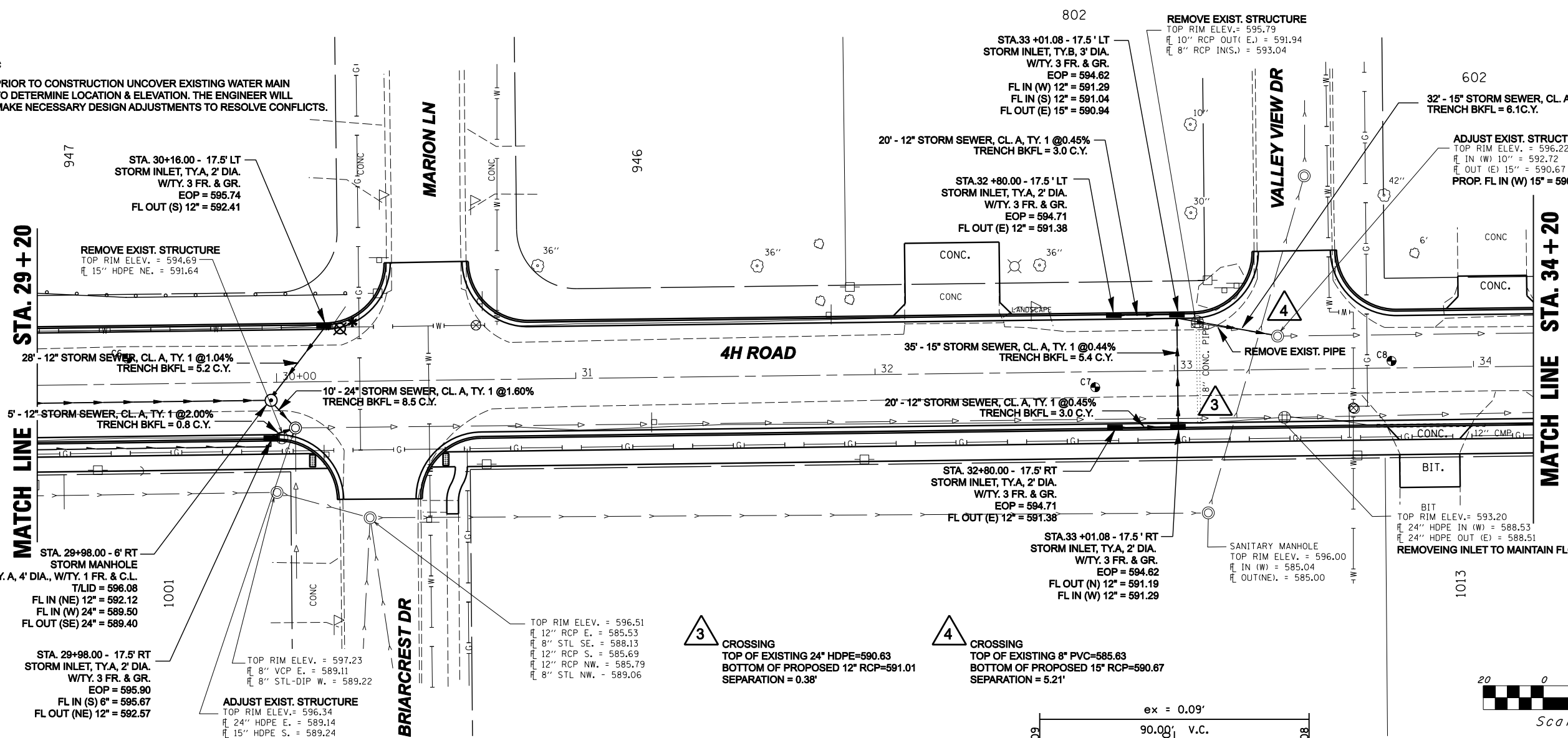
BENCHMARK INFORMATION	
BM#4 STA. 22+53, 26' RT. 1101 4H RD. - 'M' IN MUELLER ON F.H. ELEVATION = 597.84	598

FILE NAME =	DESIGNED -	REVISED -	<b>Renwick &amp; Associates, Inc. - Consulting Engineers</b> 1304 Gemini Circle, Suite 4 Ottawa, Illinois 61350-2823 Phone 815-434-3200 Fax 815-434-3988 Professional Engineers Land Surveyors	<b>4-H ROAD ROADWAY RECONSTRUCTION</b> <b>OTTAWA, IL.</b> SCALE: 1" = 20' SHEET NO. 5 OF 17 SHEETS STA. 19+20 TO STA. 24+20		F.A.U. RT. 6031	SECTION 13-00166-00-PV	COUNTY LASALLE	TOTAL SHEETS 24	SHEET NO. 8
PLOT DATE = DECEMBER 20, 2017	DRAWN -	REVISED -				CONTRACT NO. 87679	ILLINOIS			
PLOT SCALE = 1"=20'	CHECKED -	REVISED -								
	DATE -	REVISED -								





✖\* PRIOR TO CONSTRUCTION UNCOVER EXISTING WATER MAIN TO DETERMINE LOCATION & ELEVATION. THE ENGINEER WILL MAKE NECESSARY DESIGN ADJUSTMENTS TO RESOLVE CONFLICTS.



STA. 30+16.00 - 17.5' LT STORM INLET, TY.A, 2' DIA. W/TY. 3 FR. & GR. EOP = 595.74 FL OUT (S) 12" = 592.41

REMOVE EXIST. STRUCTURE TOP RIM ELEV. = 594.69 15" HDPE NE. = 591.64

28' - 12" STORM SEWER, CL. A, TY. 1 @ 1.04% TRENCH BKFL = 5.2 C.Y.

5' - 12" STORM SEWER, CL. A, TY. 1 @ 2.00% TRENCH BKFL = 0.8 C.Y.

STA. 29+98.00 - 6' RT STORM MANHOLE TY. A, 4' DIA., W/TY. 1 FR. & C.L. TLID = 596.08 FL IN (NE) 12" = 592.12 FL IN (W) 24" = 589.50 FL OUT (SE) 24" = 589.40

STA. 29+98.00 - 17.5' RT STORM INLET, TY.A, 2' DIA. W/TY. 3 FR. & GR. EOP = 595.90 FL IN (S) 6" = 595.67 FL OUT (NE) 12" = 592.57

ADJUST EXIST. STRUCTURE TOP RIM ELEV. = 596.34 24" HDPE E. = 589.14 15" HDPE S. = 589.24 15" HDPE SW. = 590.54 PROP. FL IN (SW) 12" = 592.47 PROP. FL IN (NW) 24" = 589.24

TOP RIM ELEV. = 596.51 12" RCP E. = 585.53 8" STL SE. = 588.13 12" RCP S. = 585.69 12" RCP NW. = 585.79 8" STL NW. = 589.06

3 CROSSING TOP OF EXISTING 24" HDPE=590.63 BOTTOM OF PROPOSED 12" RCP=591.01 SEPARATION = 0.38'

4 CROSSING TOP OF EXISTING 8" PVC=585.63 BOTTOM OF PROPOSED 15" RCP=590.67 SEPARATION = 5.21'

802 STA.33+01.08 - 17.5' LT STORM INLET, TY.B, 3' DIA. W/TY. 3 FR. & GR. EOP = 594.62 FL IN (W) 12" = 591.29 FL IN (S) 12" = 591.04 FL OUT (E) 15" = 590.94

REMOVE EXIST. STRUCTURE TOP RIM ELEV. = 595.79 10" RCP OUT (E.) = 591.94 8" RCP IN(S.) = 593.04

20' - 12" STORM SEWER, CL. A, TY. 1 @ 0.45% TRENCH BKFL = 3.0 C.Y.

STA.32+80.00 - 17.5' LT STORM INLET, TY.A, 2' DIA. W/TY. 3 FR. & GR. EOP = 594.71 FL OUT (E) 12" = 591.38

35' - 15" STORM SEWER, CL. A, TY. 1 @ 0.44% TRENCH BKFL = 5.4 C.Y.

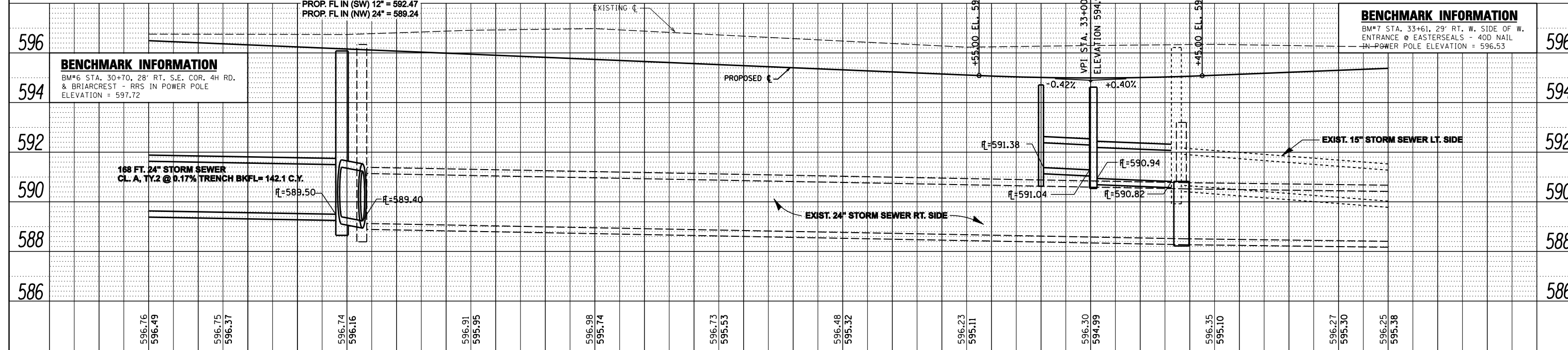
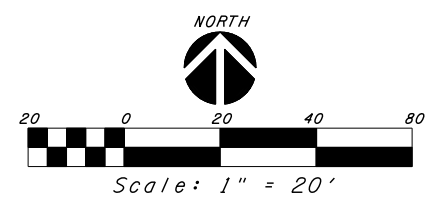
STA. 32+80.00 - 17.5' RT STORM INLET, TY.A, 2' DIA. W/TY. 3 FR. & GR. EOP = 594.71 FL OUT (E) 12" = 591.38

STA.33+01.08 - 17.5' RT STORM INLET, TY.A, 2' DIA. W/TY. 3 FR. & GR. EOP = 594.62 FL OUT (N) 12" = 591.19 FL IN (W) 12" = 591.29

602 32' - 15" STORM SEWER, CL. A, TY. 1 @ 0.38% TRENCH BKFL = 6.1 C.Y.

ADJUST EXIST. STRUCTURE TOP RIM ELEV. = 596.22 FL IN (W) 10" = 592.72 FL OUT (E) 15" = 590.67 PROP. FL IN (W) 15" = 590.82

BIT TOP RIM ELEV. = 593.20 24" HDPE IN (W) = 588.53 24" HDPE OUT (E) = 588.51 REMOVE INLET TO MAINTAIN FLOW



**BENCHMARK INFORMATION**  
 BM#6 STA. 30+70, 28' RT. S.E. COR. 4H RD. & BRIARCREST - RRS IN POWER POLE ELEVATION = 597.72  
 BM#7 STA. 33+61, 29' RT. W. SIDE OF W. ENTRANCE @ EASTERSEALS - 400 NAIL IN POWER POLE ELEVATION = 596.53

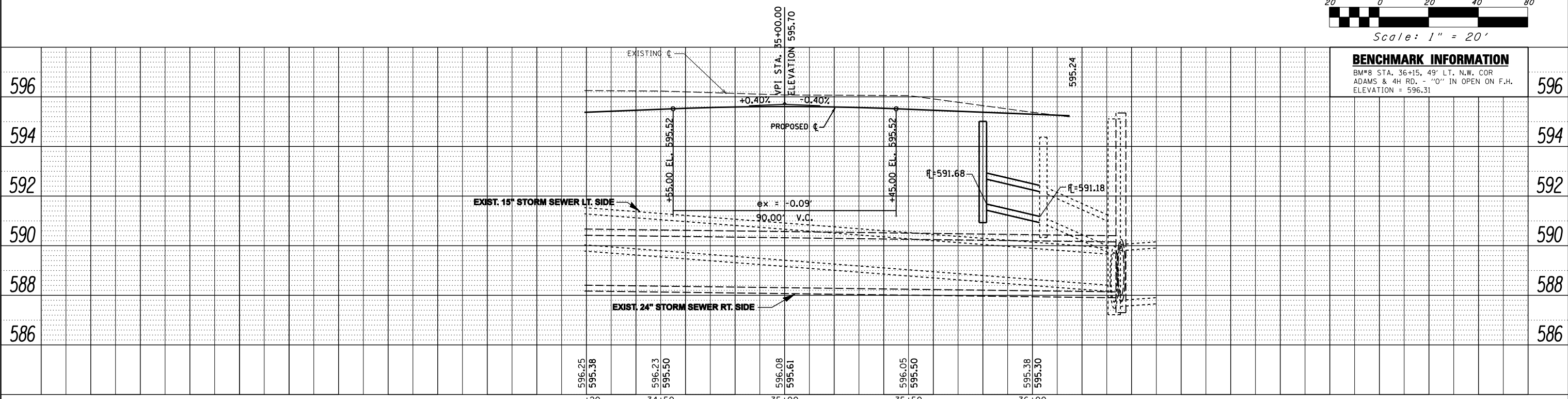
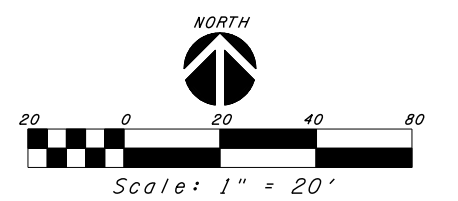
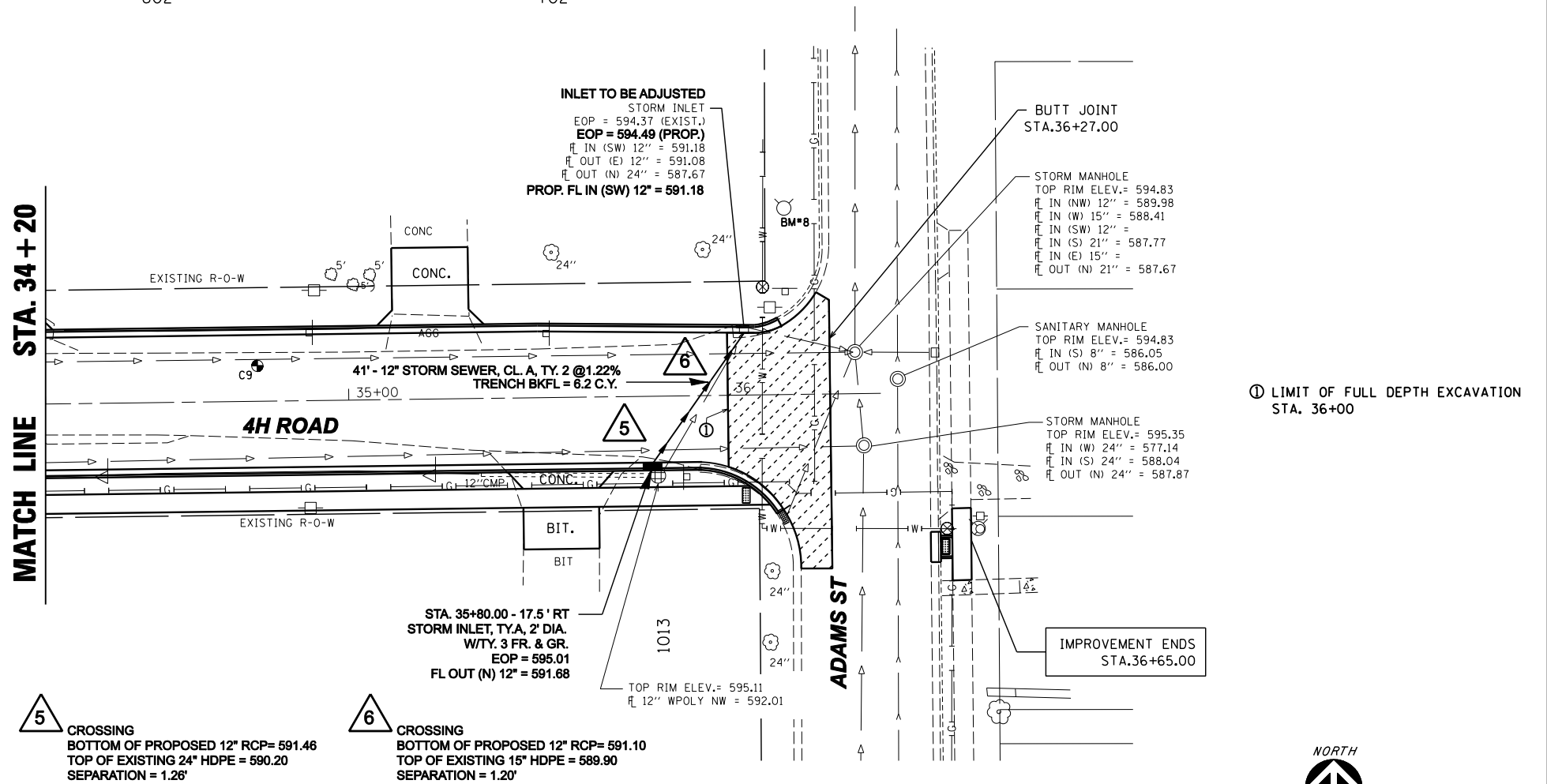
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	PLOTTED		
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PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHKD		
	NO.		

FILE NAME =	DESIGNED -	REVISED -	<b>Renwick &amp; Associates, Inc. - Consulting Engineers</b> 1304 Gemini Circle, Suite 4 Phone 815-434-3200 Professional Engineers Ottawa, Illinois 61350-2823 Fax 815-434-3968 Land Surveyors	<b>4-H ROAD ROADWAY RECONSTRUCTION</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = DECEMBER 20, 2017	DRAWN -	REVISED -		SCALE: 1" = 20'	SHEET NO. 7 OF 17 SHEETS	STA. 29+20 TO STA. 34+20	6031	13-00166-00-PV	LASALLE	24	10
PLOT SCALE = 1"=20'	CHECKED -	REVISED -					CONTRACT NO. 87679 ILLINOIS				
	DATE -	REVISED -									

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNED		
	FILED		
NOTE BOOK NO.	CADD FILE NAME		

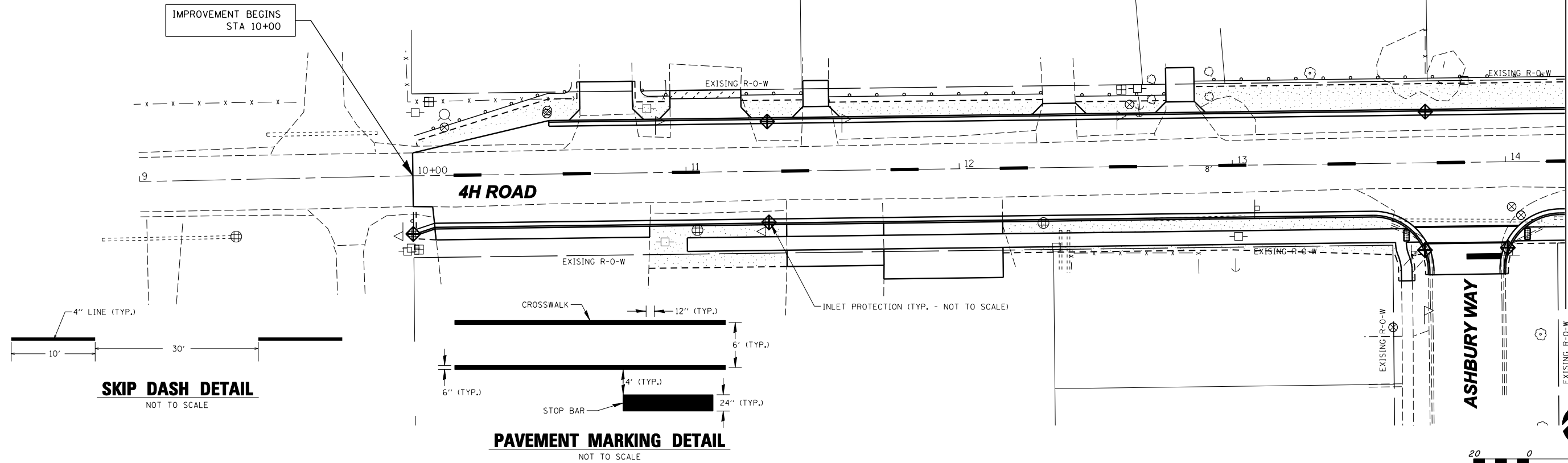
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
NOTE BOOK NO.	CADD FILE NAME		



BENCHMARK INFORMATION	
BM#8 STA. 36+15, 49' LT. N.W. COR ADAMS & 4H RD. - "O" IN OPEN ON F.H. ELEVATION = 596.31	596

FILE NAME=	DESIGNED -	REVISED -	<b>Renwick &amp; Associates, Inc. - Consulting Engineers</b> 1304 Gemini Circle, Suite 4 Ottawa, Illinois 61350-2823 Phone 815-434-3300 Fax 815-434-3988 Professional Engineers Land Surveyors	<b>4-H ROAD ROADWAY RECONSTRUCTION</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = DECEMBER 20, 2017	DRAWN -	REVISED -		6031	13-00166-00-PV	LASALLE	24	11		
PLOT SCALE = 1"=20'	CHECKED -	REVISED -		SCALE: 1" = 20'		SHEET NO. 8 OF 17 SHEETS	STA. 34+20 TO STA. 36+15	CONTRACT NO. 87679	ILLINOIS	
	DATE -	REVISED -								

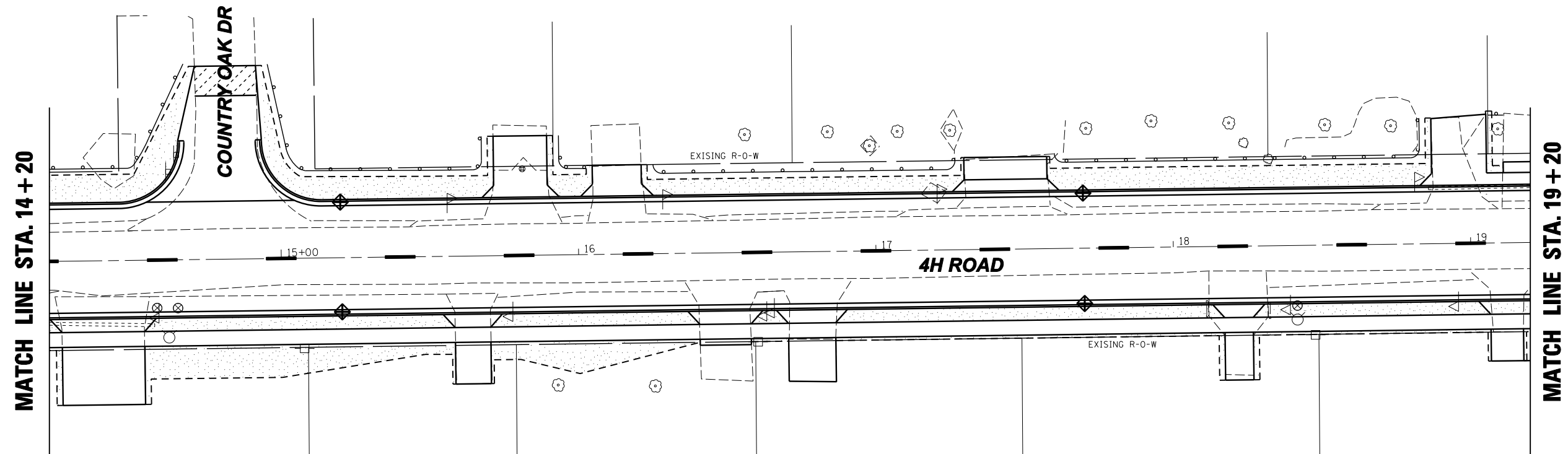
PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	AT	
	FILE NAME	
	NO.	



**SKIP DASH DETAIL**  
NOT TO SCALE

**PAVEMENT MARKING DETAIL**  
NOT TO SCALE

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	AT	
	FILE NAME	
	NO.	

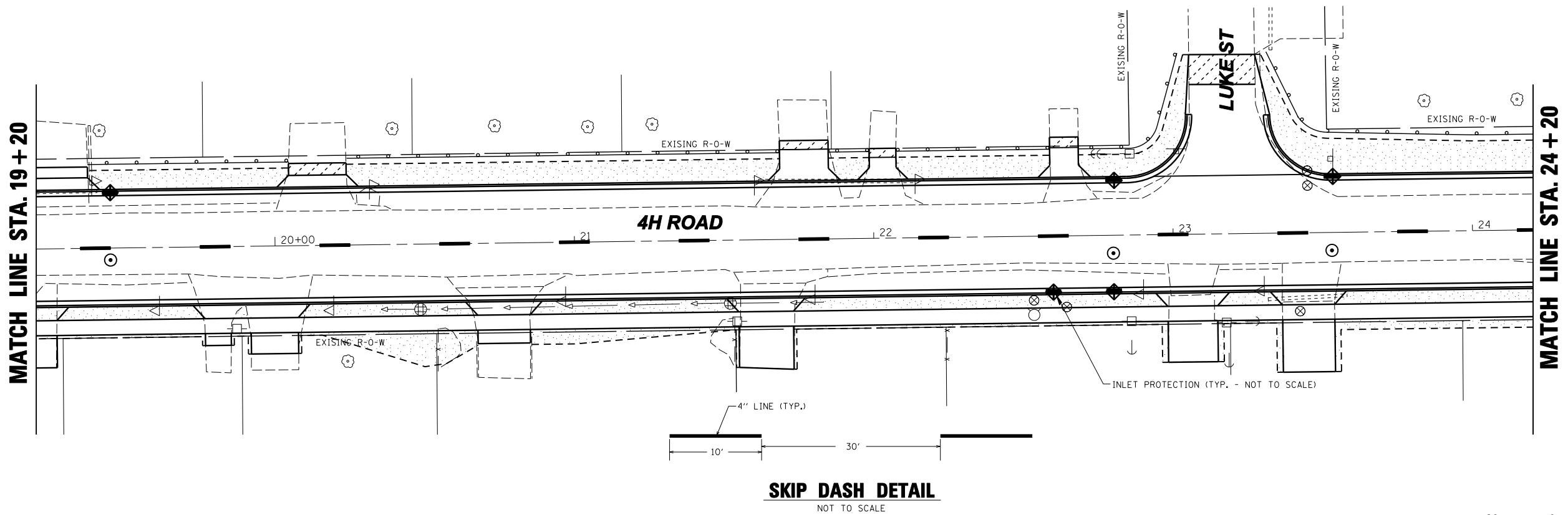


**EROSION & SEDIMENT CONTROL AND PAVEMENT MARKING DETAILS**

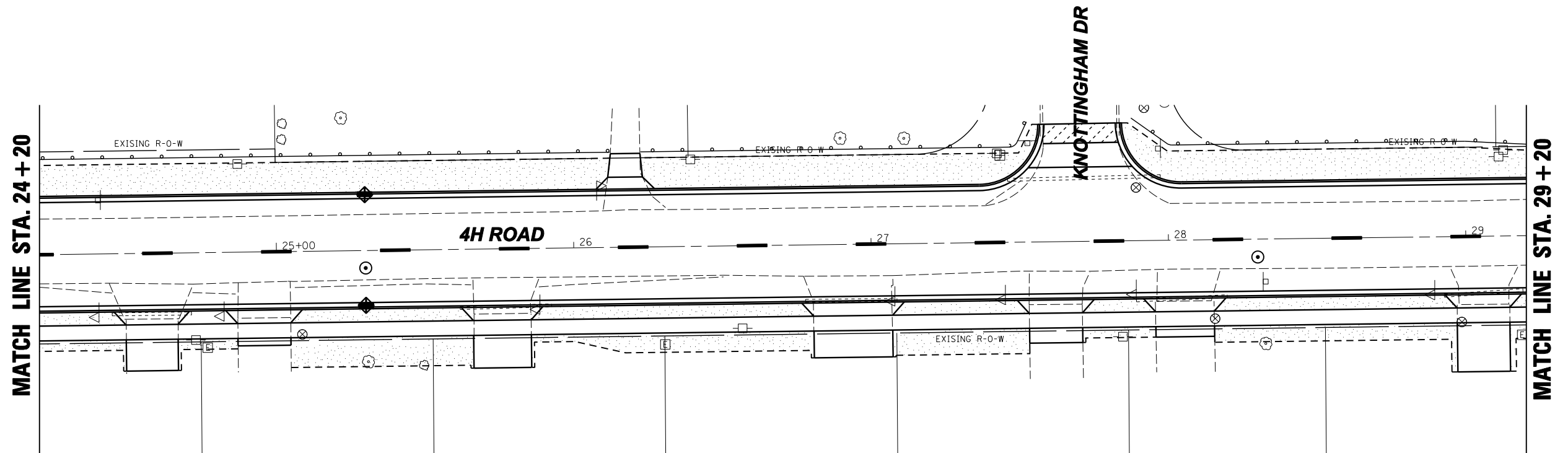
FILE NAME =	DESIGNED -	REVISED -	<b>Renwick &amp; Associates, Inc. – Consulting Engineers</b> 1304 Gemini Circle, Suite 4      Phone 815-434-3200      Professional Engineers Ottawa, Illinois 61350-2823      Fax 815-434-3968      Land Surveyors	<b>4H ROAD ROADWAY RECONSTRUCTION</b> <b>OTTAWA, IL.</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = DECEMBER 20, 2017	DRAWN -	REVISED -				6031	13-00166-00-PV	LASALLE	24	12
PLOT SCALE = 1"=20'	CHECKED -	REVISED -		SCALE: 1" = 20'		STA. 10+00 TO STA. 19+20	CONTRACT NO. 87679		ILLINOIS	
	DATE -	REVISED -								



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	AT		
	NO. _____		
	FILE NAME		



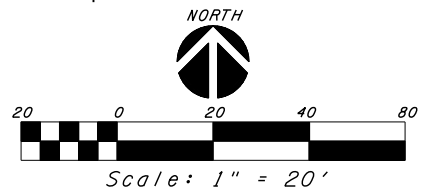
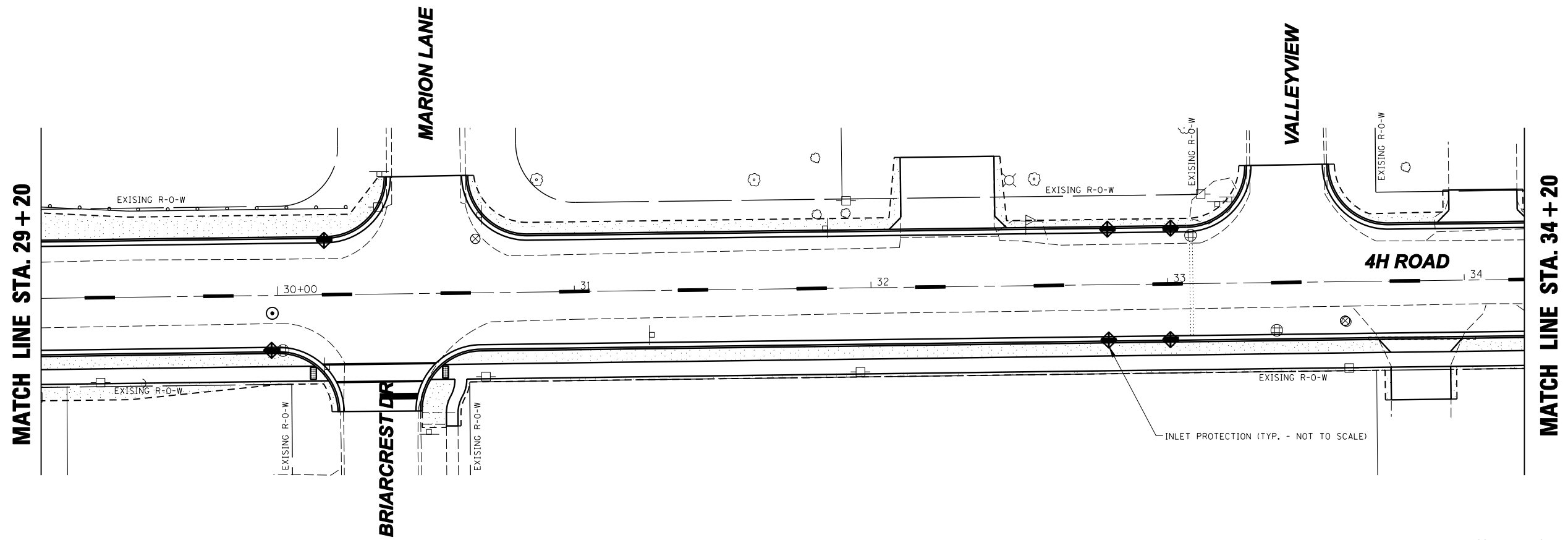
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	AT		
	NO. _____		
	FILE NAME		



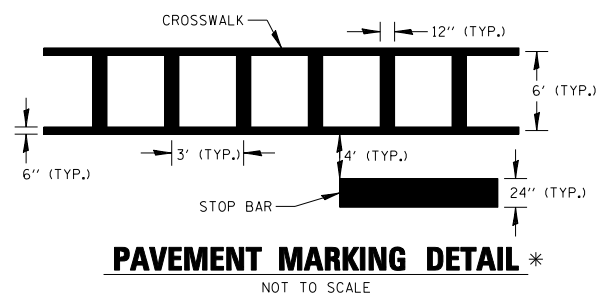
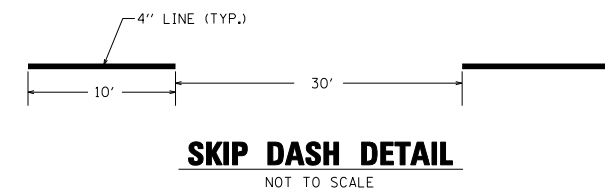
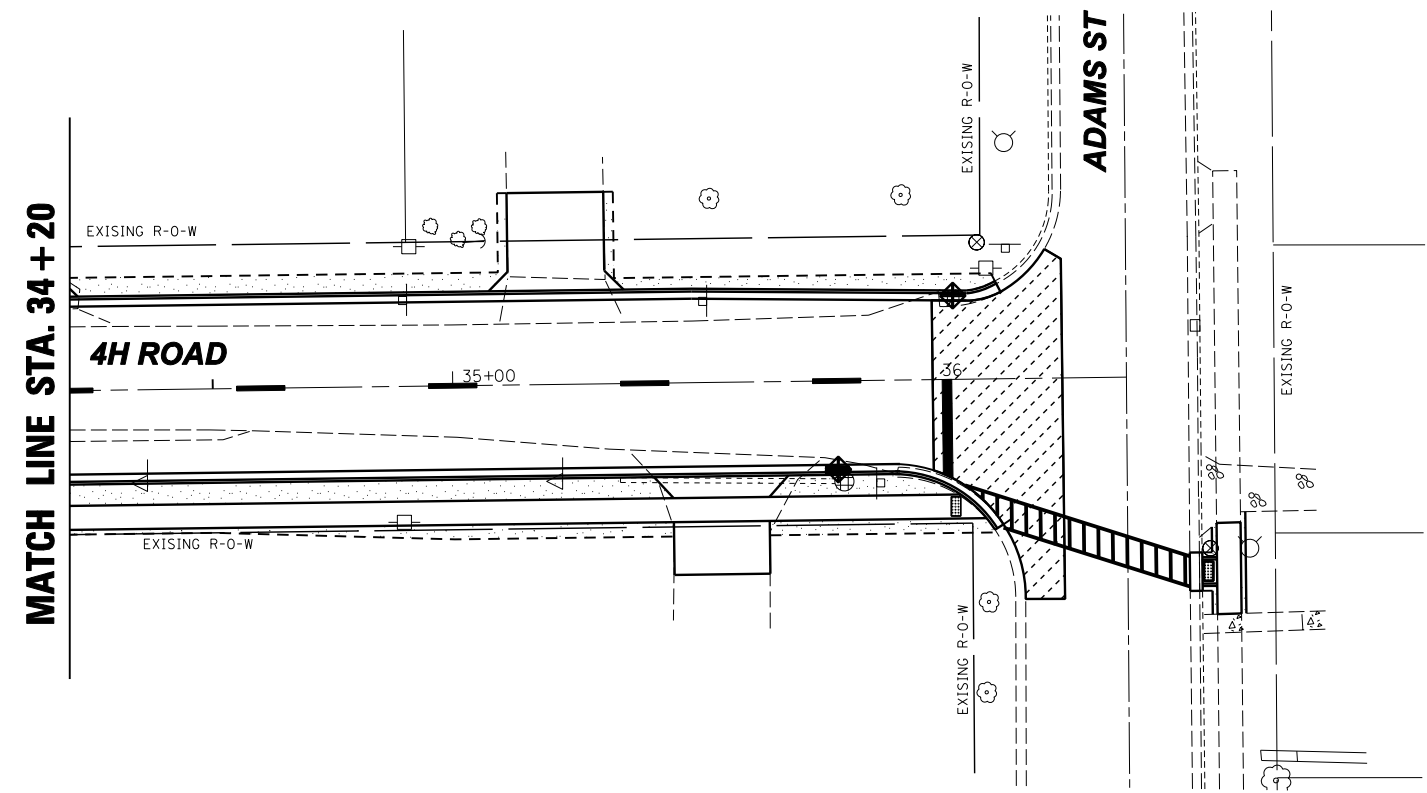
**EROSION & SEDIMENT CONTROL AND PAVEMENT MARKING DETAILS**

FILE NAME =	DESIGNED -	REVISED -	<b>Renwick &amp; Associates, Inc. – Consulting Engineers</b> 1304 Gemini Circle, Suite 4      Phone 815-434-3200      Professional Engineers Ottawa, Illinois 61350-2823      Fax 815-434-3968      Land Surveyors	<b>4H ROAD ROADWAY RECONSTRUCTION</b> <b>OTTAWA, IL.</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = DECEMBER 20, 2017	DRAWN -	REVISED -				6031	13-00166-00-PV	LASALLE	24	13
PLOT SCALE = 1"=20'	CHECKED -	REVISED -		SCALE: 1" = 20'		STA. 19+20 TO STA. 29+20		CONTRACT NO. 87679	ILLINOIS	
	DATE -	REVISED -								

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	AT		
	FILE NAME		
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PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE		
	NOT AT THIS OFFICE		
	NO.		



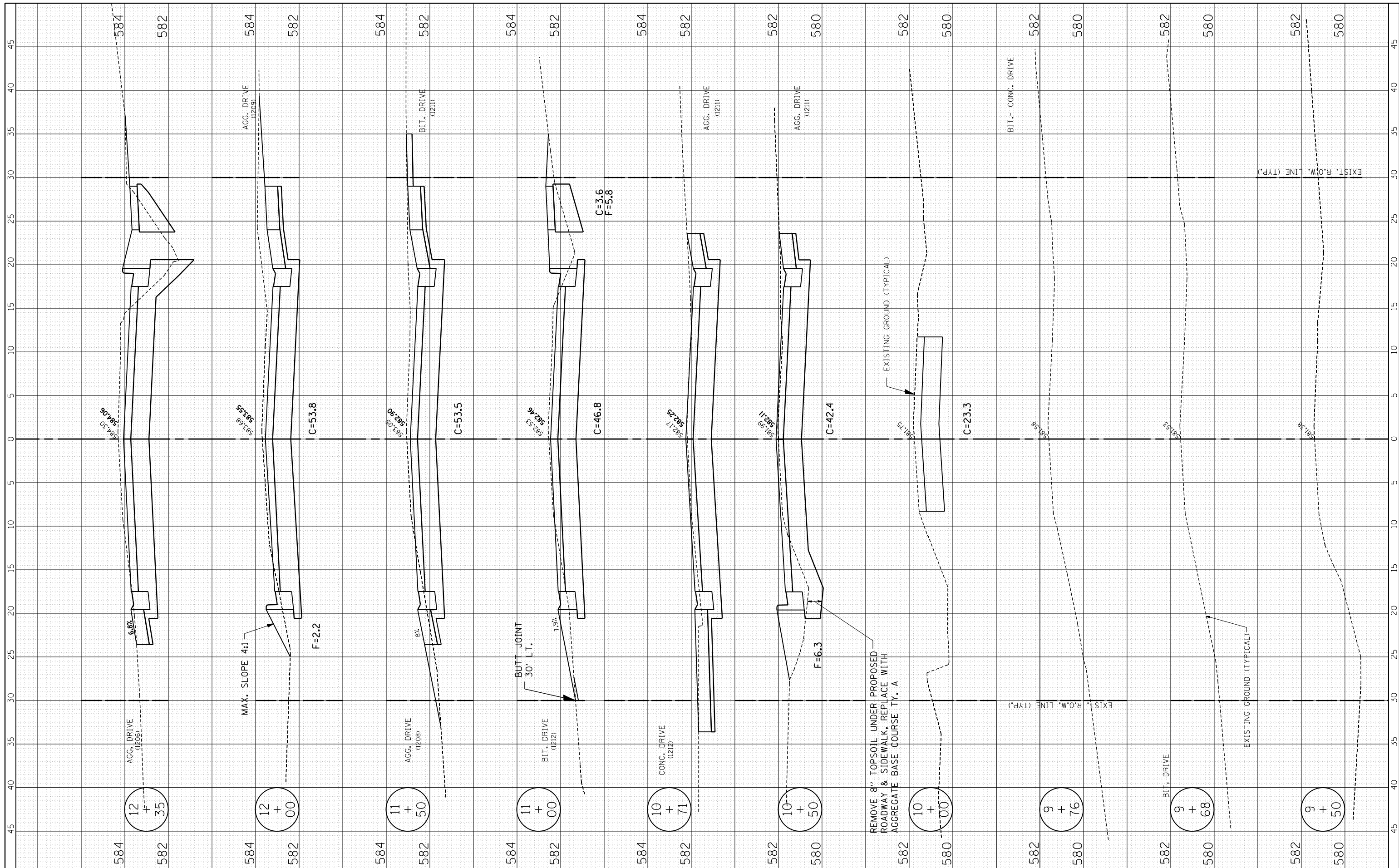
\* NOTE: TRANSVERSE LINES TO BE PLACED ON CROSSWALK AT ADAMS STREET ONLY.

### EROSION & SEDIMENT CONTROL AND PAVEMENT MARKING DETAILS

FILE NAME =	DESIGNED -	REVISED -	<b>Renwick &amp; Associates, Inc. – Consulting Engineers</b> 1304 Gemini Circle, Suite 4      Phone 815-434-3200      Professional Engineers Ottawa, Illinois 61350-2823      Fax 815-434-3968      Land Surveyors	<b>4H ROAD ROADWAY RECONSTRUCTION</b> <b>OTTAWA, IL.</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT DATE = DECEMBER 20, 2017	DRAWN -	REVISED -				6031	13-00166-00-PV	LASALLE	24	14	
PLOT SCALE = 1"=20'	CHECKED -	REVISED -				SCALE: 1" = 20'		STA. 29+20 TO STA. 36+60		CONTRACT NO. 87679 ILLINOIS	
	DATE -	REVISED -									

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

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



FILE NAME = R:\16.2.4.XSECTION\_SHEETS.dgn  
 USER NAME = MWM  
 PLOT SCALE = 5  
 PLOT DATE = 12-20-17

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

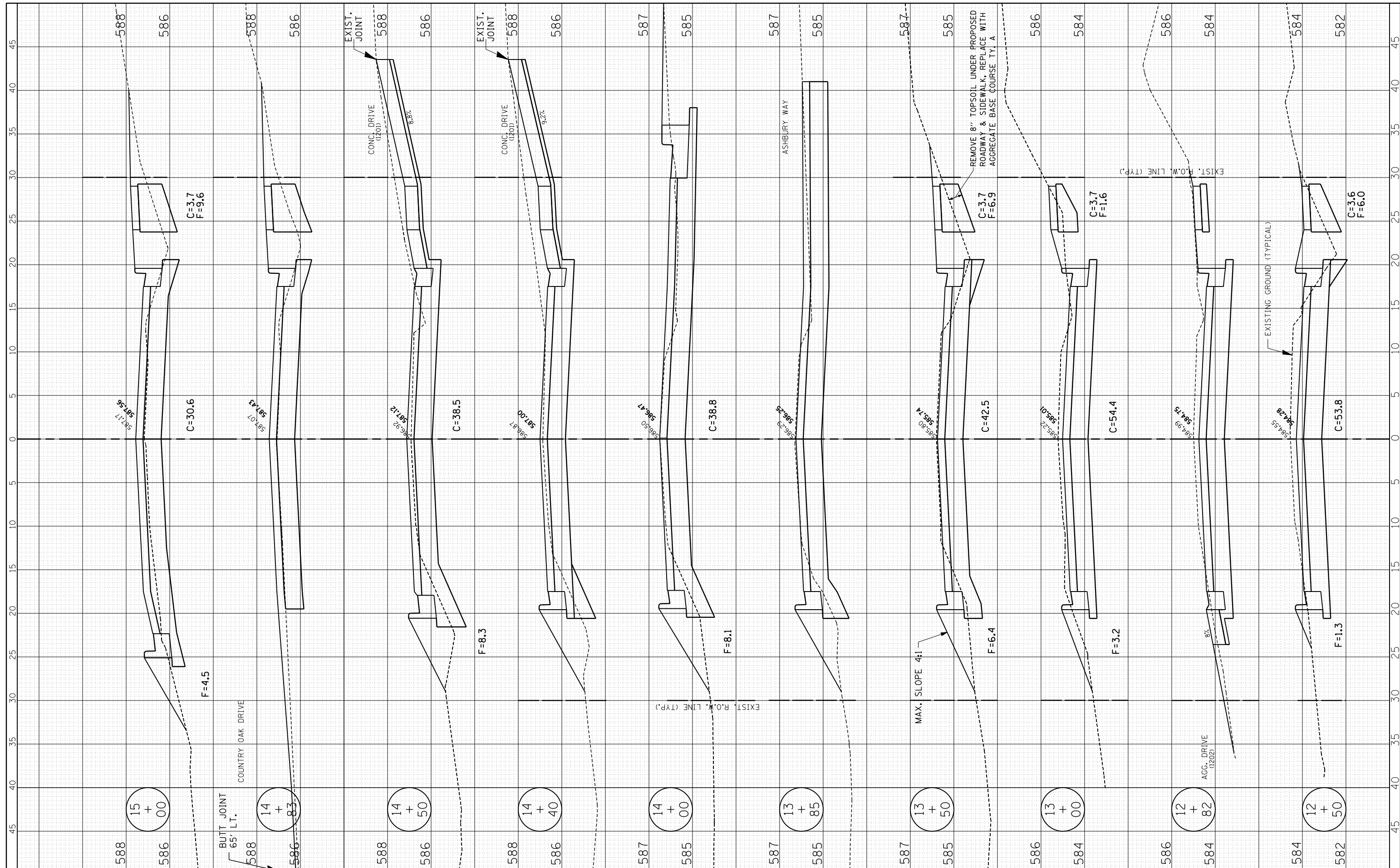
**Renwick & Associates, Inc. - Consulting Engineers**  
 1304 Gemini Circle, Suite 4  
 Ottawa, Illinois 61350-2823  
 Phone 815-434-3200  
 Fax 815-434-3968  
 Professional Engineers  
 Land Surveyors

**4-H ROAD RECONSTRUCTION**  
**OTTAWA, IL.**  
 SCALE: 1" = 5'  
 STA. 9+50 TO STA. 12+35

F.A.U. RTE. 6031	SECTION 13-00166-00-PV	COUNTY LASALLE	TOTAL SHEETS 24	SHEET NO. 15
CONTRACT NO. 87679 ILLINOIS				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME = R:\16.2.4.XSECTION\_SHEETS.dgn  
 USER NAME = MWM  
 PLOT SCALE = 5  
 PLOT DATE = 11-21-17

DESIGNED -	REVISIED -
DRAWN -	REVISIED -
CHECKED -	REVISIED -
DATE -	REVISIED -

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 1304 Gemini Circle, Suite 4  
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 Land Surveyors

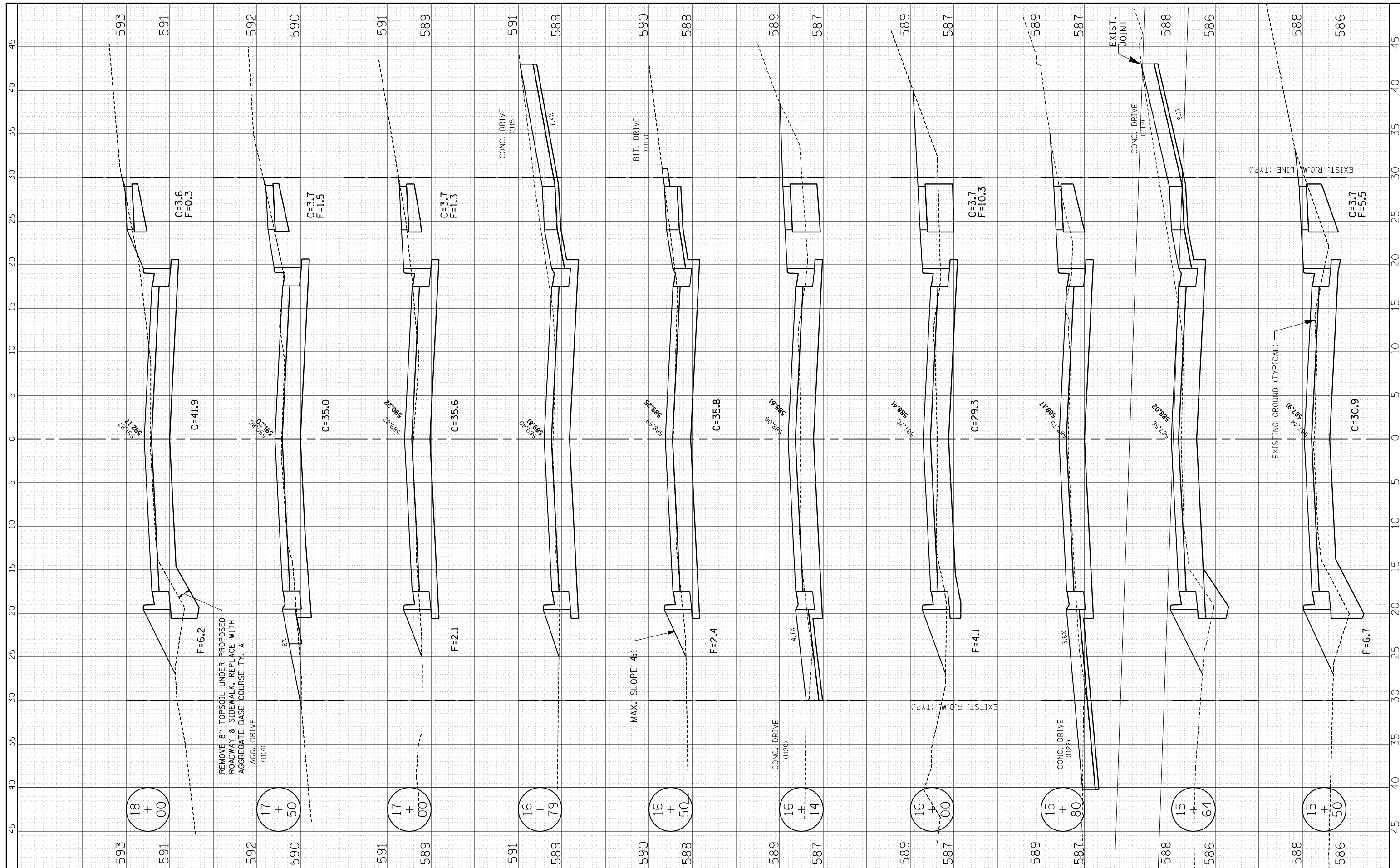
**4-H ROAD RECONSTRUCTION**  
**OTTAWA, IL.**  
 SCALE: 1" = 5'  
 STA. 12+50 TO STA. 15+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6031	13-00166-00-PV	LASALLE	24	16
CONTRACT NO. 87679 ILLINOIS				



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

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



FILE NAME = R:\16.2.4.XSECTION\_SHEETS.dgn  
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CHECKED -	REVISIED -
DATE -	REVISIED -

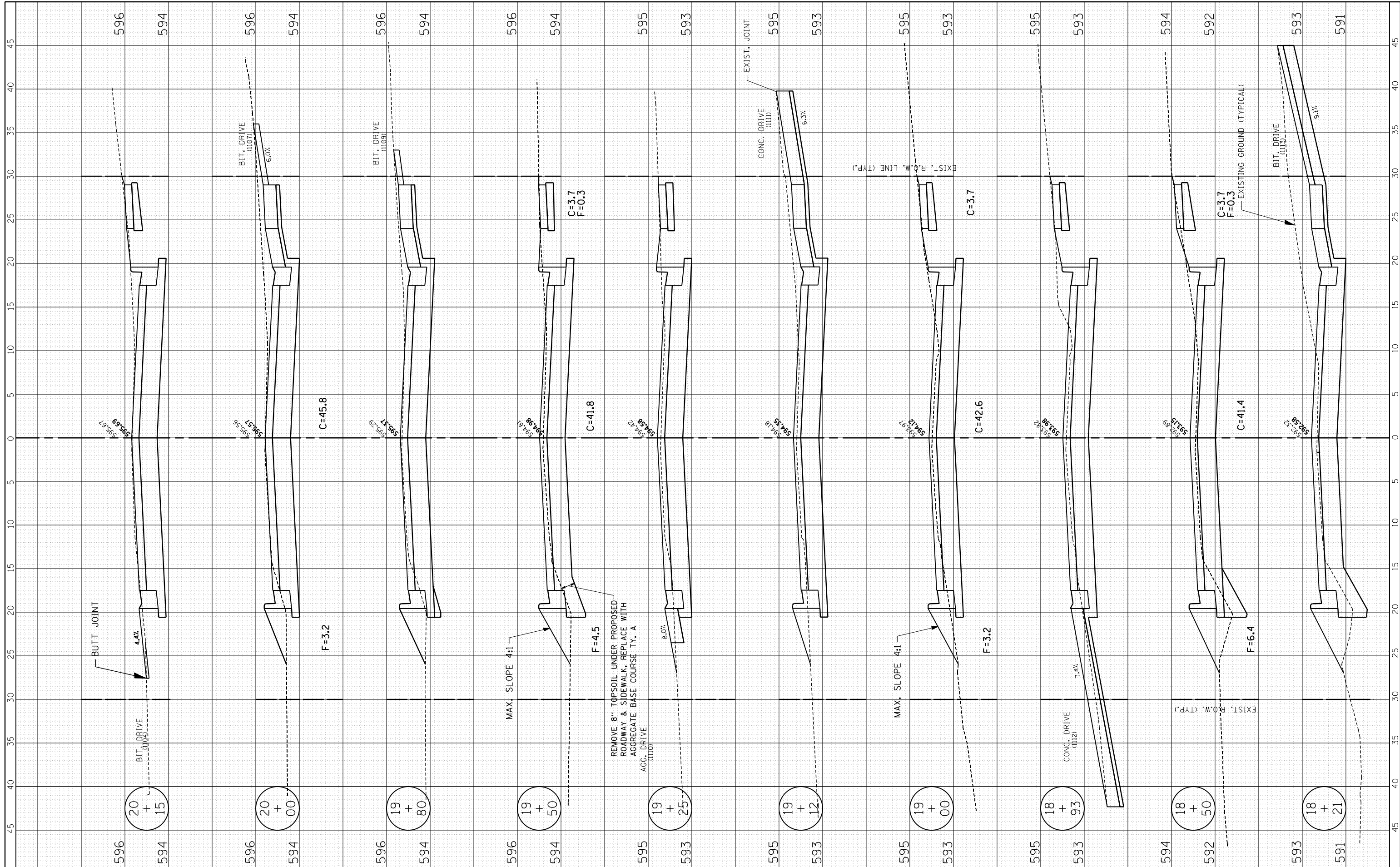
**Renwick & Associates, Inc. - Consulting Engineers**  
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 Land Surveyors

**4-H ROAD RECONSTRUCTION**  
**OTTAWA, IL.**  
 SCALE: 1" = 5'  
 STA. 15+50 TO STA. 18+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6031	13-00166-00-PV	LASALLE	24	17
CONTRACT NO. 87679 ILLINOIS				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME = R:\16.2.4.XSECTION\_SHEETS.dgn  
 USER NAME = MWM  
 PLOT SCALE = 5  
 PLOT DATE = 8-2-17

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CHECKED -	REVISD -
DATE -	REVISD -

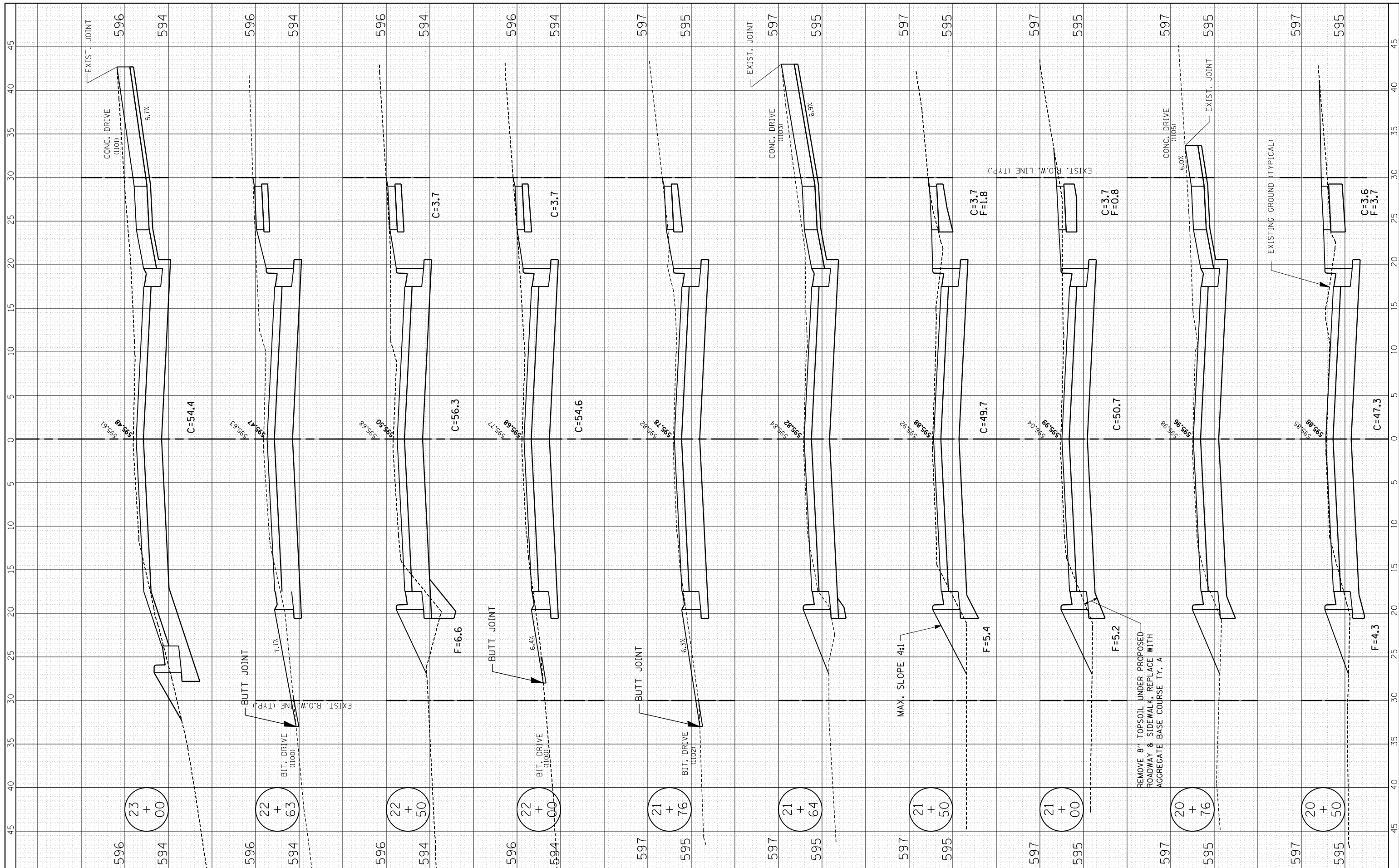
**Renwick & Associates, Inc. - Consulting Engineers**  
 1304 Gemini Circle, Suite 4  
 Ottawa, Illinois 61350-2823  
 Phone 815-434-3200  
 Fax 815-434-3968  
 Professional Engineers  
 Land Surveyors

**4-H ROAD RECONSTRUCTION**  
**OTTAWA, IL.**  
 SCALE: 1" = 5'  
 STA. 18+21 TO STA. 20+15

F.A.U. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6031	13-00166-00-PV	LASALLE	24	18
CONTRACT NO. 87679 ILLINOIS				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME = R:\16.2.4.XSECTION\_SHEETS.dgn  
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 PLOT SCALE = 5  
 PLOT DATE = 11-21-17

DESIGNED -	REVISIED -
DRAWN -	REVISIED -
CHECKED -	REVISIED -
DATE -	REVISIED -

**Renwick & Associates, Inc. - Consulting Engineers**  
 1304 Gemini Circle, Suite 4  
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 Land Surveyors

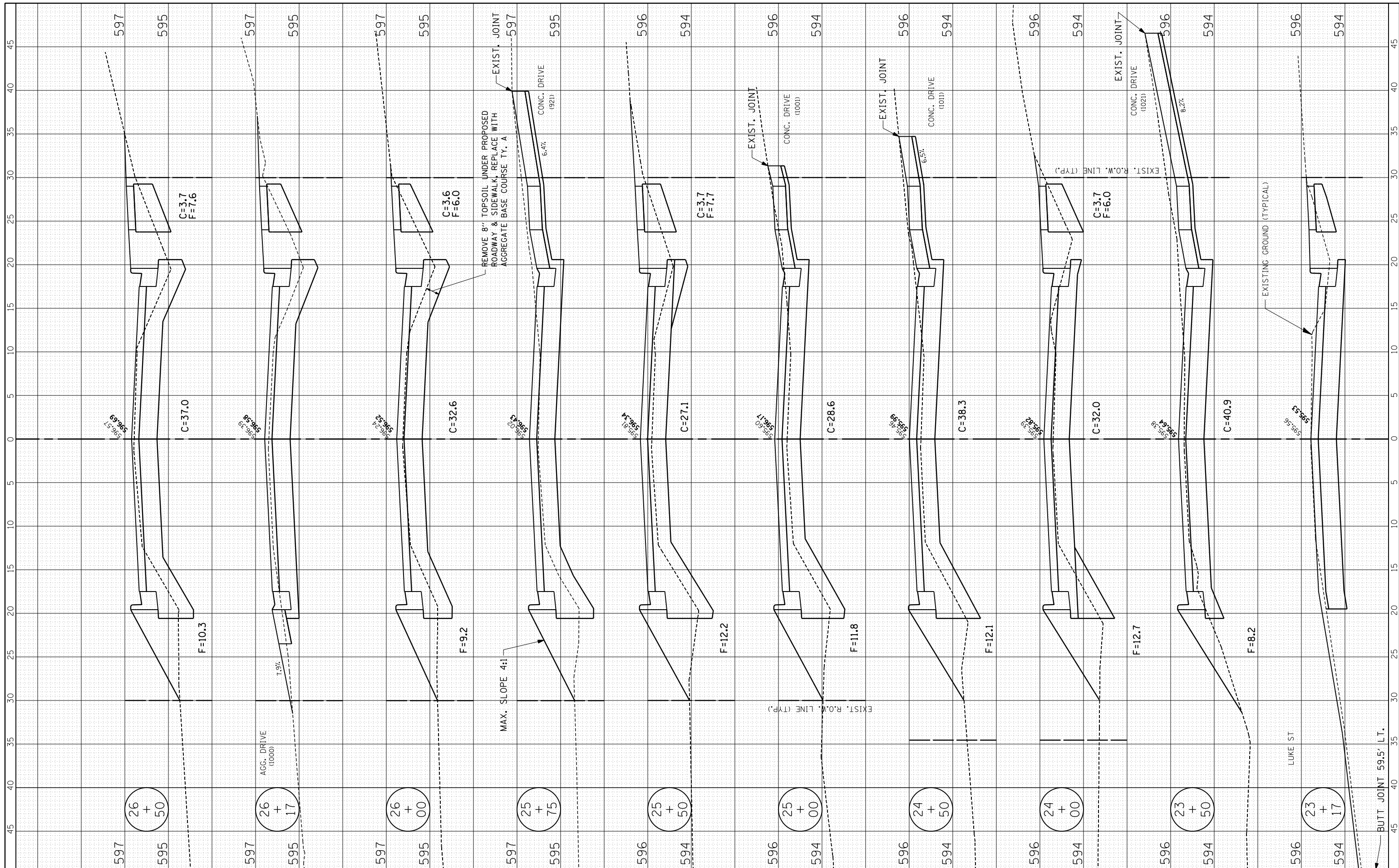
**4-H ROAD RECONSTRUCTION**  
**OTTAWA, IL.**  
 SCALE: 1" = 5'  
 STA. 20+50 TO STA. 23+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6031	13-00166-00-PV	LASALLE	24	19
CONTRCT NO. 87679		ILLINOIS		



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME = R:\16.2.4.XSECTION\_SHEETS.dgn  
 USER NAME = MWM  
 PLOT SCALE = 5  
 PLOT DATE = 11-21-17

DESIGNED -	REVISIED -
DRAWN -	REVISIED -
CHECKED -	REVISIED -
DATE -	REVISIED -

**Renwick & Associates, Inc. - Consulting Engineers**  
 1304 Gemini Circle, Suite 4  
 Ottawa, Illinois 61350-2823  
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 Land Surveyors

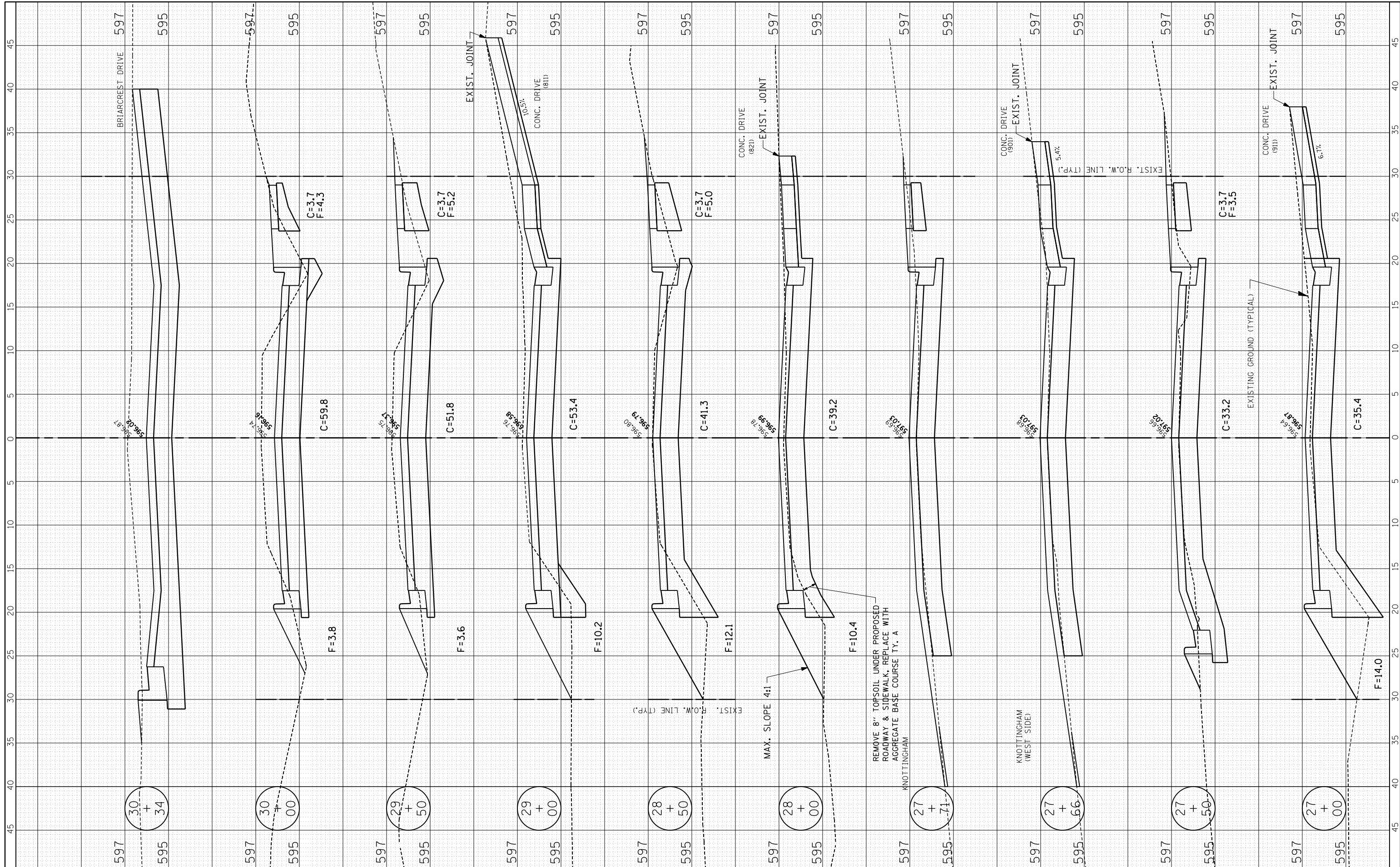
**4-H ROAD RECONSTRUCTION**  
**OTTAWA, IL.**  
 SCALE: 1" = 5'  
 STA. 23+17 TO STA. 26+50

F.A.U. RE. 6031	SECTION 13-00166-00-PV	COUNTY LASALLE	TOTAL SHEETS 24	SHEET NO. 20
CONTRACT NO. 87679 ILLINOIS				



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



FILE NAME = R:\16.2.4.XSECTION\_SHEETS.dgn  
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DESIGNED -	REVISED -
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CHECKED -	REVISED -
DATE -	REVISED -

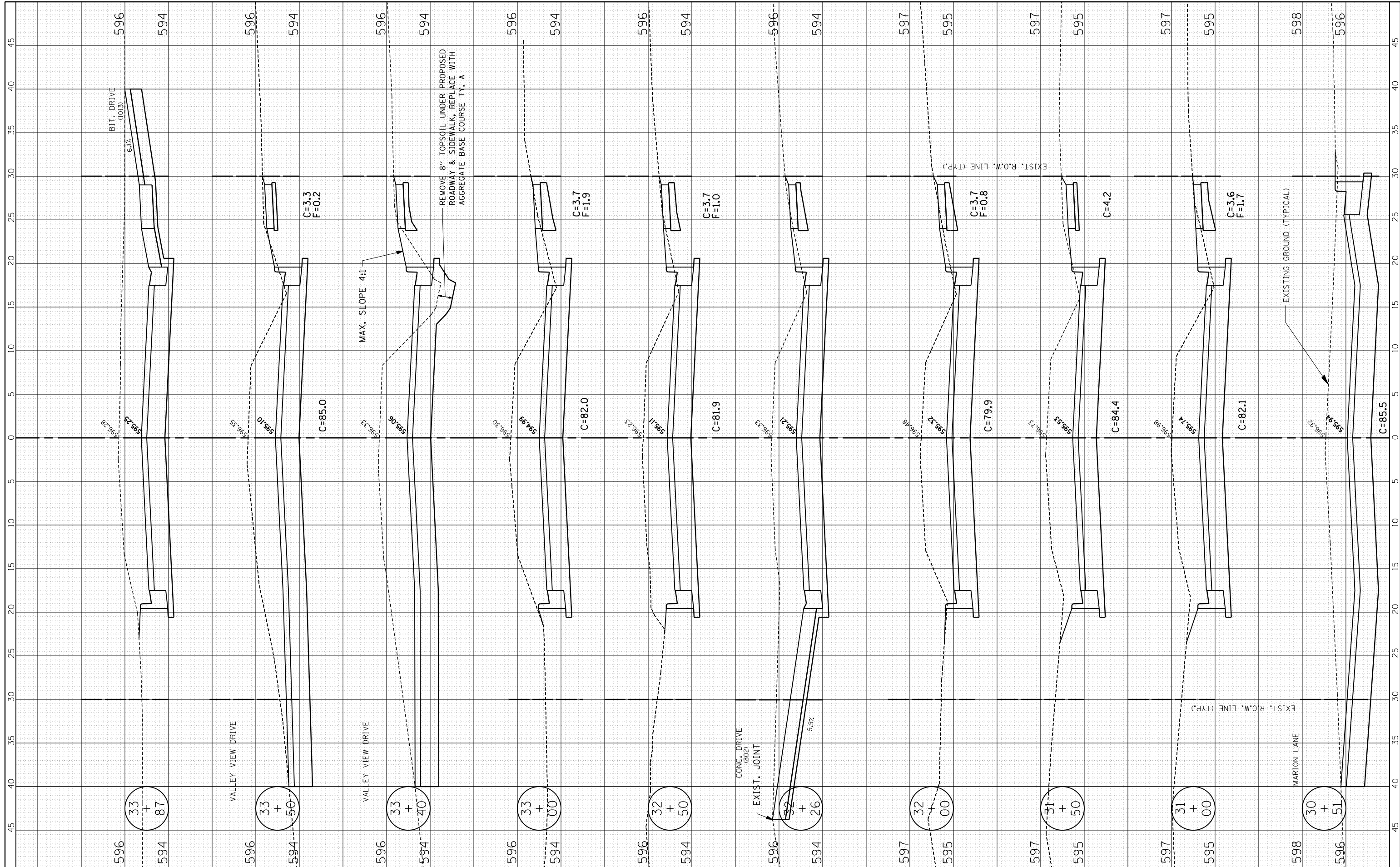
**Renwick & Associates, Inc. - Consulting Engineers**  
 1304 Gemini Circle, Suite 4  
 Ottawa, Illinois 61350-2823  
 Phone 815-434-3200  
 Fax 815-434-3968  
 Professional Engineers  
 Land Surveyors

**4-H ROAD RECONSTRUCTION**  
**OTTAWA, IL.**  
 SCALE: 1" = 5'  
 STA. 27+00 TO STA. 30+34

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6031	13-00166-00-PV	LASALLE	24	21
CONTRACT NO. 87679 ILLINOIS				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME = R:\16.2.4.XSECTION\_SHEETS.dgn  
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DATE -	REVISIED -

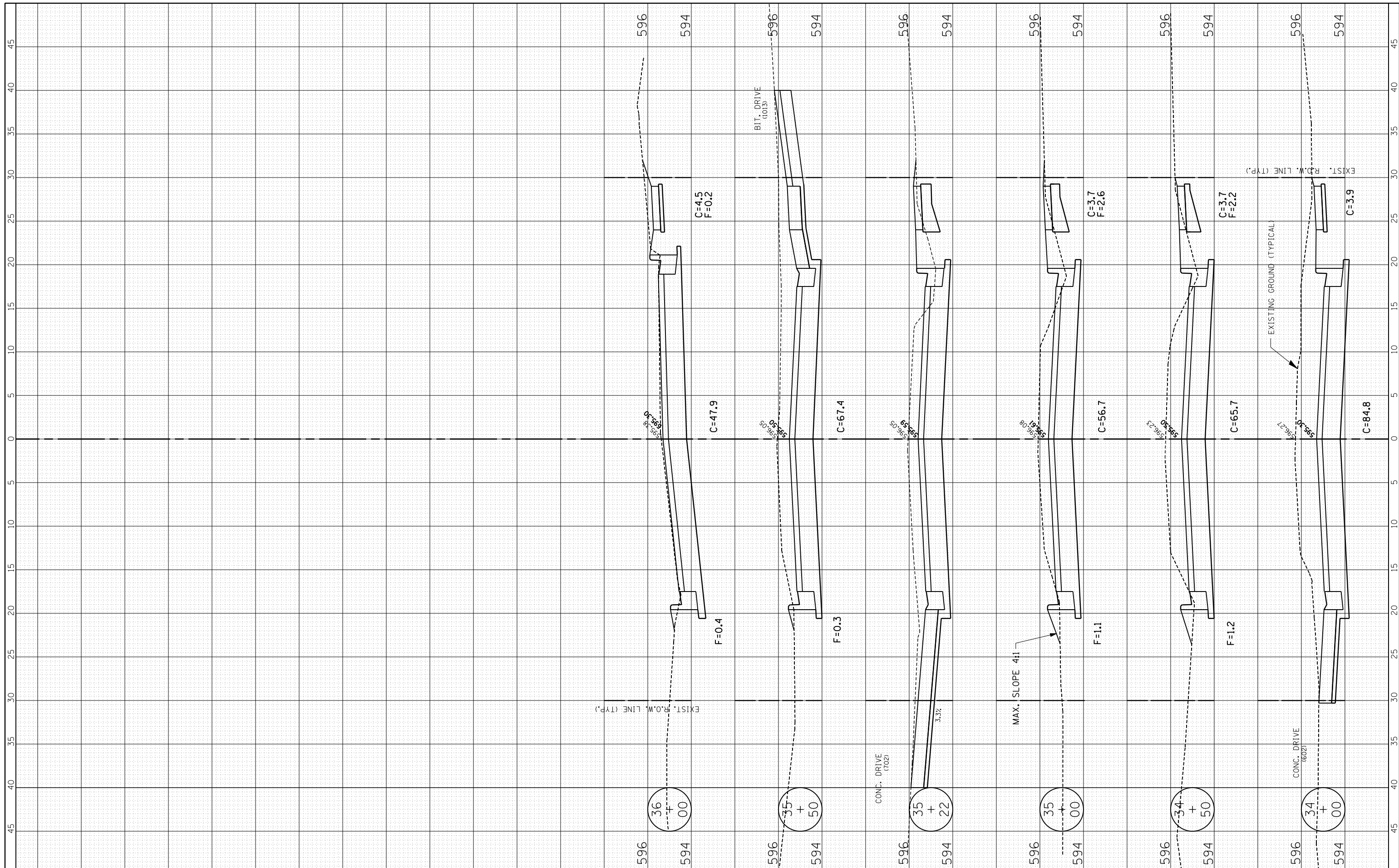
**Renwick & Associates, Inc. - Consulting Engineers**  
 1304 Gemini Circle, Suite 4  
 Ottawa, Illinois 61350-2823  
 Phone 815-434-3200  
 Fax 815-434-3968  
 Professional Engineers  
 Land Surveyors

**4-H ROAD RECONSTRUCTION**  
**OTTAWA, IL.**  
 SCALE: 1" = 5'  
 STA. 30+51 TO STA. 33+87

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6031	13-00166-00-PV	LASALLE	24	22
CONTRACT NO. 87679 ILLINOIS				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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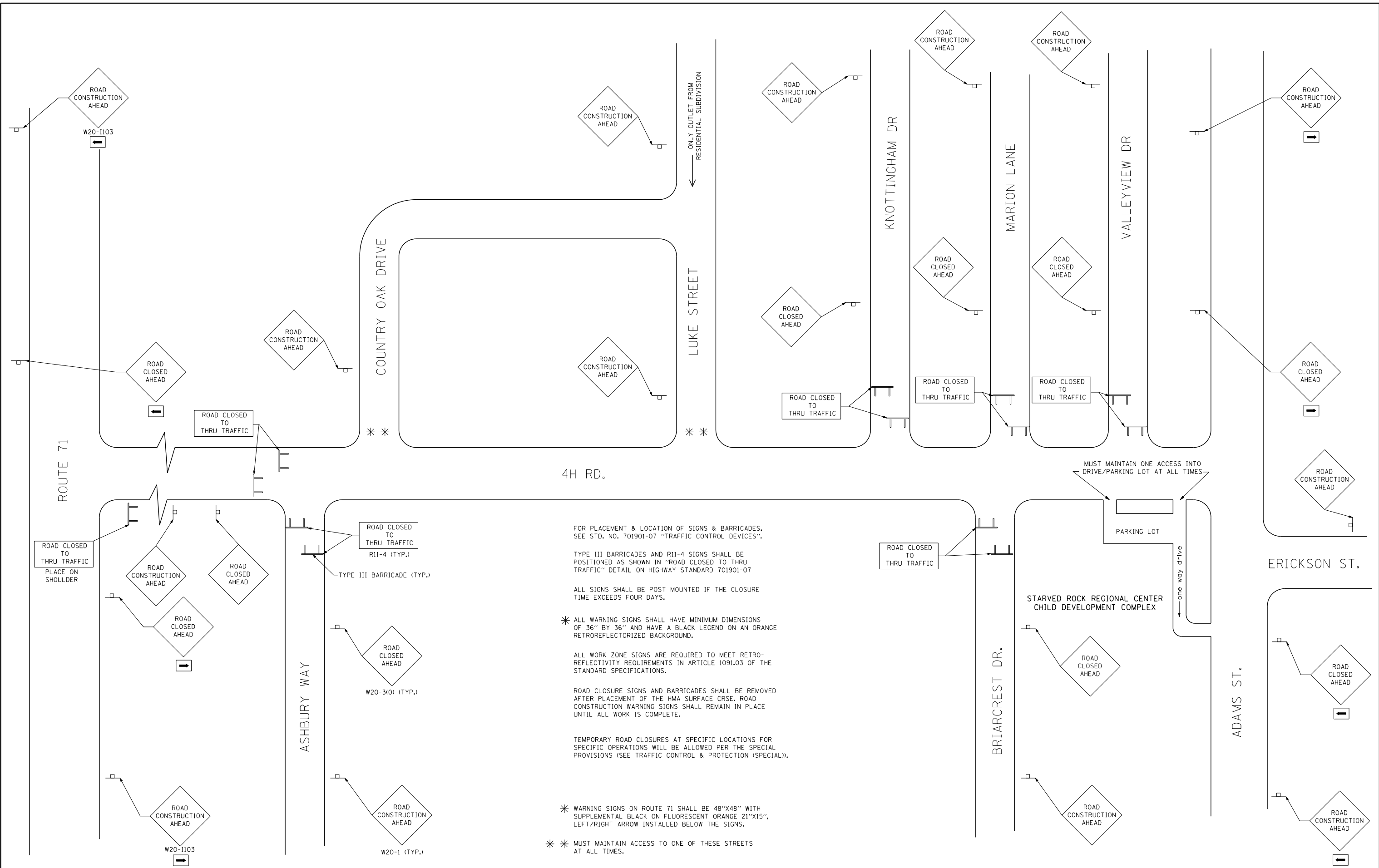
DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

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**Renwick & Associates, Inc. - Consulting Engineers**  
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 Ottawa, Illinois 61350-2823  
 Phone 815-434-3200  
 Fax 815-434-3968  
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 Land Surveyors

**4-H ROAD RECONSTRUCTION**  
**OTTAWA, IL.**  
 SCALE: 1" = 5'  
 STA. 34+00 TO STA. 36+00

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6031	13-00166-00-PV	LASALLE	24	23
CONTRACT NO. 87679		ILLINOIS		



4H RD.

FOR PLACEMENT & LOCATION OF SIGNS & BARRICADES, SEE STD. NO. 701901-07 "TRAFFIC CONTROL DEVICES".

TYPE III BARRICADES AND R11-4 SIGNS SHALL BE POSITIONED AS SHOWN IN "ROAD CLOSED TO THRU TRAFFIC" DETAIL ON HIGHWAY STANDARD 701901-07

ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.

\* ALL WARNING SIGNS SHALL HAVE MINIMUM DIMENSIONS OF 36" BY 36" AND HAVE A BLACK LEGEND ON AN ORANGE RETROREFLECTORIZED BACKGROUND.

ALL WORK ZONE SIGNS ARE REQUIRED TO MEET RETRO-REFLECTIVITY REQUIREMENTS IN ARTICLE 1091.03 OF THE STANDARD SPECIFICATIONS.

ROAD CLOSURE SIGNS AND BARRICADES SHALL BE REMOVED AFTER PLACEMENT OF THE HMA SURFACE CRSE. ROAD CONSTRUCTION WARNING SIGNS SHALL REMAIN IN PLACE UNTIL ALL WORK IS COMPLETE.

TEMPORARY ROAD CLOSURES AT SPECIFIC LOCATIONS FOR SPECIFIC OPERATIONS WILL BE ALLOWED PER THE SPECIAL PROVISIONS (SEE TRAFFIC CONTROL & PROTECTION (SPECIAL)).

\* WARNING SIGNS ON ROUTE 71 SHALL BE 48"x48" WITH SUPPLEMENTAL BLACK ON FLUORESCENT ORANGE 21"x15", LEFT/RIGHT ARROW INSTALLED BELOW THE SIGNS.

\* \* MUST MAINTAIN ACCESS TO ONE OF THESE STREETS AT ALL TIMES.

FILE NAME = 16.2.4_TRAFFIC_CONTROL	DESIGNED -	REVISED -	<b>Renwick &amp; Associates, Inc. – Consulting Engineers</b> 1304 Gemini Circle, Suite 4      Phone 815-434-3200      Professional Engineers Ottawa, Illinois 61350-2823      Fax 815-434-3968      Land Surveyors	<b>4H ROAD ROADWAY RECONSTRUCTION</b> <b>OTTAWA, IL.</b>		F.A.U. RTE. 6031	SECTION 13-00166-00-PV	COUNTY LASALLE	TOTAL SHEETS 24	SHEET NO. 24		
PLOT DATE = 12-20-17	DRAWN -	REVISED -				CONTRACT NO. 87679 ILLINOIS						
PLOT SCALE = 1"=50'	CHECKED -	REVISED -										
	DATE -	REVISED -										