

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(24Z)RS-4, N; 116RS-5	LOGAN	32	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 72998		

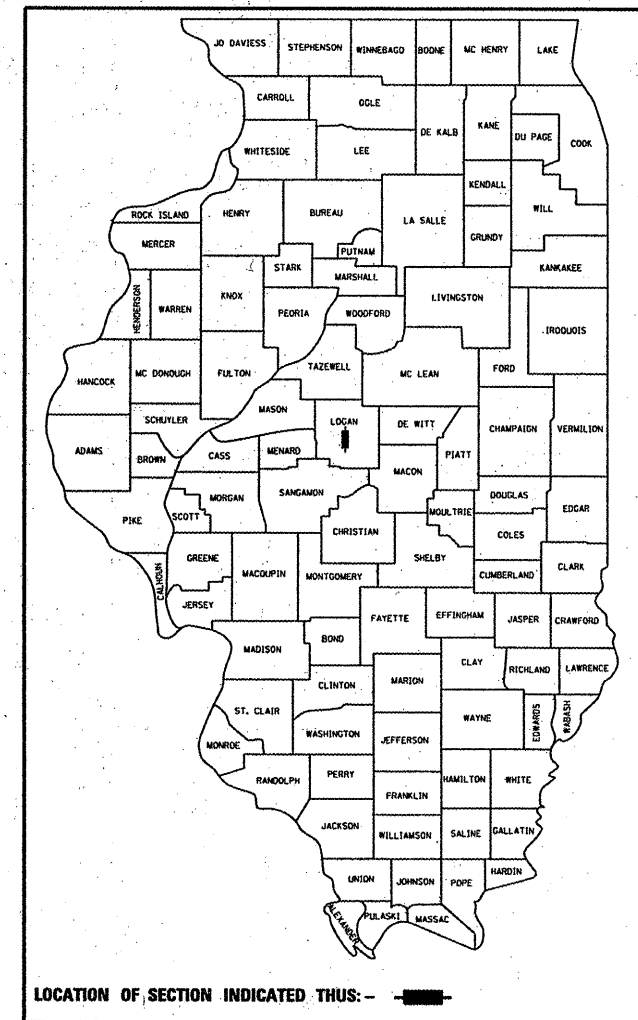
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**PROPOSED**  
**HIGHWAY PLANS**

**FAP ROUTE 320 - (IL. 121) & FAP ROUTE 717 (IL. 10)**  
**SECTION (24Z)RS-4, N; 116RS-5**

**D-96-530-05**

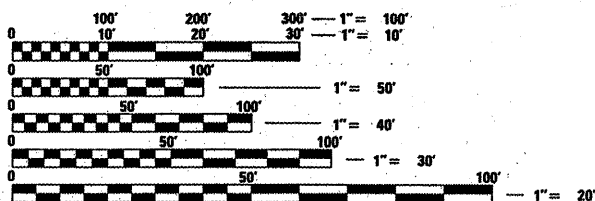


LOCATION OF SECTION INDICATED THUS: —

**ADT = 5,628 (2003)**  
**% SU = 8.0 (2003)**  
**% MU = 5.0 (2003)**  
**MUNICIPALITY: LINCOLN**  
**FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL**

**LIST OF ILLINOIS DOT HIGHWAY STANDARDS**

000001-05	606201-02
001006	701201-03
280001-05	701306-02
353001-04	701311-03
482011-03	701326-03
542301-02	701501-05
542501-02	701601-06
602301-02	701602-04
602306-02	701606-06
602401-02	701701-06
604001-03	701801-04
604006-04	701901-01
604106-01	780001-02
606001-04	781001-03



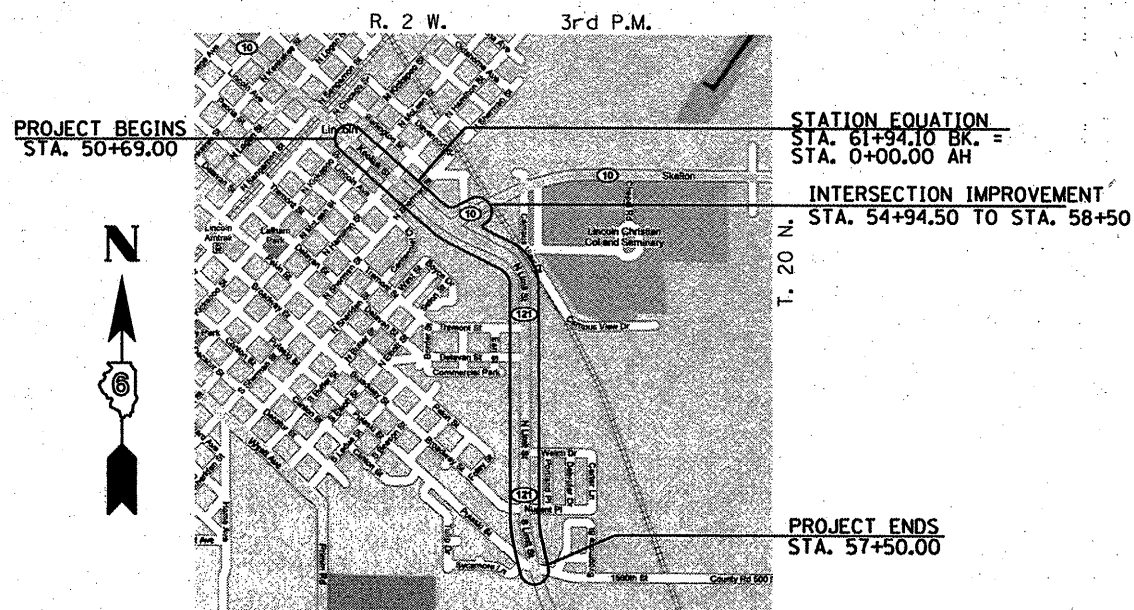
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

**PROJECT ENGINEER: JOHN NEGANGARD 217-782-6990**  
**SQUAD LEADER: VICTOR YOUNG 217-557-7897**

**CONTRACT NO. 72998**

**LOGAN COUNTY**  
**C-96-502-10**



**LOCATION MAP**

LENGTH OF SECTION - 6875.10 FEET = 1.302 MILES



*Christopher P. Koller* 1/15/10  
 EXPIRATION: 11/30/2011

**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

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

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED March 17 2010  
Raymond Zombik  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 7 2010  
Scott E. Stitt, P.E.  
 acting ENGINEER OF DESIGN AND ENVIRONMENT

May 7 2010  
Christine M. Reed, Esq.  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**ENVIRONMENTAL REVIEWS**

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS, (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- SIGNED PROPERTY OWNER AGREEMENT FORM
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA

PLEASE NOTE THAT A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED ENVIRONMENTAL CLEARANCES.

**PROPERTY OWNER ACCESS REQUIREMENT**

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

**GENERAL NOTES**

- 1.) THE THICKNESS OF BITUMINOUS MIXTURES SHOWN 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 OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- 2.) EXCEPT AS NOTED IN THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- 3.) WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- 4.) SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION. AREAS TO BE SEEDED SHALL BE DETERMINED BY THE ENGINEER AND SEEDED AS SOON AS POSSIBLE.
- 5.) ALL SAW CUTS, NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS, SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE 1/2" UNLESS OTHERWISE SPECIFIED IN A DETAIL SHOWN IN THE PLANS.
- 6.) UNLESS DIRECTED BY THE ENGINEER, PAVEMENT MARKING LINES SHALL NOT BE LAID DIRECTLY OVER A LONGITUDINAL CRACK OR JOINT NOR OVER A TAR OR ASPHALT PAINTED LINE. THE EDGE OF A CENTERLINE OR LANE LINE SHALL BE OFFSET A MINIMUM DISTANCE OF 2" FROM A LONGITUDINAL CRACK OR JOINT. EDGE LINES SHALL BE APPROXIMATELY 2" FROM THE EDGE LINE OF PAVEMENT. SEE SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
- 7.) ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 8.) ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- 9.) IN ADDITION TO THE FIELD SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- 10.) THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT, AND NO COMPENSATION WILL BE ALLOWED.
- 11.) THE LOCATION OF ALL UTILITIES ARE BASED ON INFORMATION PROVIDED BY OTHERS AND IS INTENDED TO BE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS CONSTRUCTION ACTIVITIES WITH THE VARIOUS UTILITY OWNERS. ALL POTENTIAL CONFLICTS SHALL BE INVESTIGATED AND REMEDIAL ACTION TAKEN PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS.
- 12.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED.
- 13.) ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM. ALL STATION AND OFFSET REFERENCES ARE TO THE ROADWAY CENTERLINE UNLESS OTHERWISE NOTED. THE STATE PLANE COORDINATE SYSTEM HAS BEEN USED FOR THE HORIZONTAL CONTROL.
- 14.) THE DISTRICT BUREAU OF OPERATIONS SHALL BE NOTIFIED AT LEAST 14 DAYS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS (PH: 217-785-5312)
- 15.) QUANTITY FOR EARTH EXCAVATION INCLUDES ANY EXCAVATION NECESSARY TO PLACE PORTLAND CEMENT CONCRETE BASE COURSE.

COMMITMENTS: NONE

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE THE PLAN QUANTITIES:

BITUMINOUS MATERIALS (PRIME COAT)	0.00038 TON/SQ. YD. (ON PAVEMENT)
BITUMINOUS MATERIALS (PRIME COAT)	0.001425 TON/SQ.YD. (ON AGG)
HOT MIX ASPHALT SURFACE / BINDER	0.056 TON/SQ. YD. PER 1"
AGGREGATE MATERIAL	2.05 TON/CU. YD.
RIPRAP	1.5 TON/CU. YD.
NITROGEN FERTILIZER NUTRIENT	90 LBS./ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	90 LBS./ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS./ACRE
AGGREGATE PRIME COAT	0.002 TON/SQ. YD.
AGRICULTURAL GROUND LIMESTONE	2.0 TON/ACRE

**MIXTURE REQUIREMENTS**

MIXTURE USE(S)	HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70	HOT MIX ASPHALT LEVELING BINDER	INCIDENTAL SURFACING COURSE	HOT MIX ASPHALT PATCHING
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N DESIGN = 70	4.0% @ N DESIGN = 70	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50
MIXTURE COMPOSITION	IL 9.5 OR 12.5	IL 9.5	IL 9.5 OR 12.5	IL 19.0
FRICITION AGGREGATE	MIX D	N/A	MIX C	N/A

**COMMITMENTS**

- 1.) THE FIELD/RESIDENT ENGINEER SHALL CONTACT STUDIES & PLANS CONCERNING ANY MAJOR PLAN CHANGES TO MAKE SURE NO PREVIOUS COMMITMENTS (NOT LISTED) WERE MADE AFFECTING THE DESIGN, AND TO ALLOW IMPROVEMENTS IN THE DESIGN FOR FUTURE PROJECTS.
- 2.) INFORMATIONAL TO THE CITY OF LINCOLN

<b>DISTRICT SIX</b>	
EXAMINED <u>Sept 24</u> 20 <u>09</u>	
<i>Sam J. Adams</i>	
OPERATIONS ENGINEER	
EXAMINED <u>October 15</u> 20 <u>09</u>	
<i>Sam J. Adams</i>	
PROGRAM IMPLEMENTATION ENGINEER	
EXAMINED <u>March 15</u> 20 <u>10</u>	
<i>ARML</i>	
PROGRAM DEVELOPMENT ENGINEER	

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
#FILE#		DRAWN -	REVISED -
	PLOT SCALE = 2.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 11/3/2009	DATE -	REVISED -

**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

<b>GENERAL NOTES &amp; MIXTURE REQUIREMENTS</b>			
SCALE:	SHEET NO. 2 OF 32 SHEETS	STA.	TO STA.

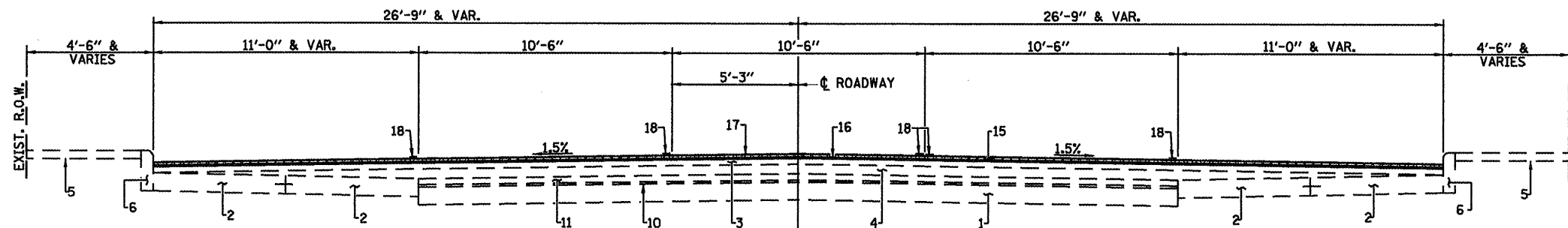
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(242)RS-4,N; 116RS-5)	LOGAN	32	2
CONTRACT NO. 72998				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

SUMMARY OF QUANTITIES				ROADWAY FAP 662 80% FEDERAL 20% STATE	ROADWAY RESURFACING PARKING LANES 50% STATE 50% VILLAGE
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 1000-2A	CONSTRUCTION TYPE CODE 1000-2A
20200100	EARTH EXCAVATION	CU. YD.	419	419	
20800150	TRENCH BACKFILL	CU. YD.	32	32	
25000200	SEEDING, CLASS 2	ACRE	0.2	0.2	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	18	18	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	18	18	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	18	18	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.4	0.4	
25100125	MULCH, METHOD 3	ACRE	0.2	0.2	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50	50	
31100500	SUB-BASE GRANULAR MATERIAL, TYPE A 6"	SQ. YD.	383	383	
35300700	PORTLAND CEMENT CONCRETE BASE COURSE 12"	SQ. YD.	446	446	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	14.31	12.55	1.76
40600300	AGGREGATE (PRIME COAT)	TON	75.31	66.09	9.22
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	1455	1261	194
40600895	CONSTRUCTING TEST STRIP	EACH	1	1	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ. YD.	537	537	
40600990	TEMPORARY RAMP	SQ. YD.	269	269	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	2910	2523	387
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	431	431	
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ. FT.	1986	1986	
42400800	DETECTABLE WARNINGS	SQ. FT.	20	20	
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ. YD.	37119	32511	4608
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	410	410	
44000600	SIDEWALK REMOVAL	SQ. FT.	1617	1617	
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1144	1144	
44003800	MEDIAN SURFACE REMOVAL	SQ. FT.	1998	1998	
44003900	MEDIAN SURFACE REMOVAL AND REPLACEMENT	SQ. FT.	1260	1260	
44200168	PAVEMENT PATCHING, TYPE II, 14 INCH	SQ YD	77.3	77.3	
44200174	PAVEMENT PATCHING, TYPE IV, 14 INCH	SQ YD	80	80	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	33	33	
54200174	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	20	20	
54213657	PRECAST REINFORCED CONCRETE END SECTIONS 12"	EACH	1	1	
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	132	132	
56109210	WATER VALVES TO BE ADJUSTED	EACH	9	9	
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	1	1	
60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	1	1	

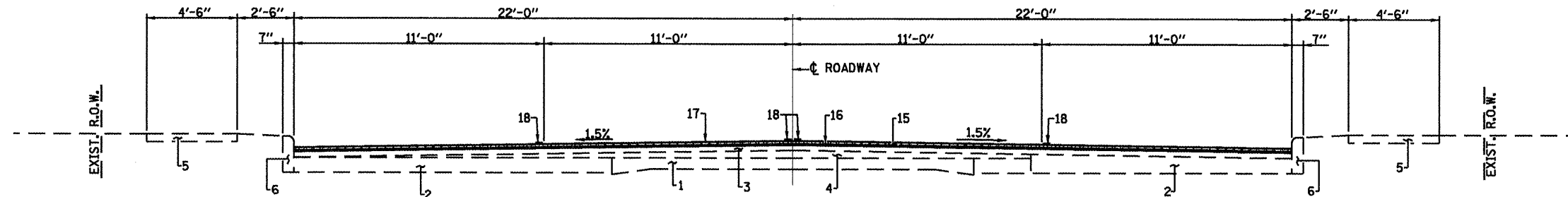
SUMMARY OF QUANTITIES				ROADWAY FAP 662 80% FEDERAL 20% STATE	ROADWAY RESURFACING PARKING LANES 50% STATE 50% VILLAGE
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 1000-2A	CONSTRUCTION TYPE CODE 1000-2A
60240366	INLETS, TYPE B, WITH MEDIAN INLET - (604106)	EACH	2	2	
60255500	MANHOLES TO BE ADJUSTED	EACH	23	23	
60262900	INLETS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	1	1	
60500305	FILLING INLETS	EACH	3	3	
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	598	598	
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL. MO	8	8	
67100100	MOBILIZATION	L. SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L. SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L. SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L. SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L. SUM	1	1	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L. SUM	1	1	
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L. SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L. SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L. SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL. DA	10	10	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	2352	2352	
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	13813	13813	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	4322	4322	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	454	454	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	371	371	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ. FT.	776	776	
78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	12113	12113	
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4322	4322	
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	454	454	
78004200	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS AND SYMBOLS	SQ. FT.	252	252	
78004220	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"	FOOT	1700	1700	
78004280	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"	FOOT	371	371	
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	257	257	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	257	257	
X5510100	STORM SEWER REMOVAL	FOOT	20	20	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L. SUM	1	1	
66900200	NON-SPECIAL WASTE DISPOSAL	CU. YD.	24	24	
66900450	SPECIAL WASTE PLANS AND REPORTS	L. SUM	1	1	
66900530	SOIL DISPOSAL AND ANALYSIS	EACH	1	1	

FILE NAME :	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62708 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>SUMMARY OF QUANTITIES</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.		
	PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED -		SCALE:	SHEET NO. 3 OF 32 SHEETS	STA.	TO STA.	320	(242)RS-4, N: 116RS-5)	LOGAN	32	3
	PLOT DATE = Mar-19-2010 06:51:54AM	CHECKED -	REVISED -					FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 72998		
		DATE -	REVISED -										

Rev.



**TYPICAL ROADWAY SECTION #1 (FAP ROUTES 320 & 717)**  
STA. 50+69.00 TO STA. 56+32.00

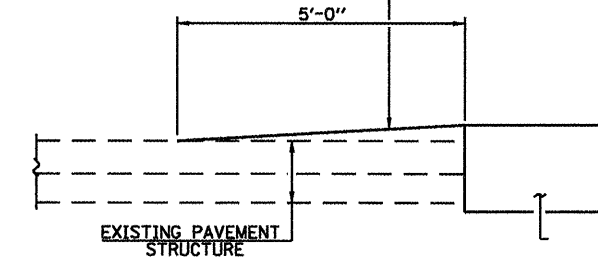


**TYPICAL ROADWAY SECTION #2 (FAP ROUTES 320 & 717)**  
STA. 56+32.00 TO STA. 59+83.00


**PAVEMENT LEGEND**

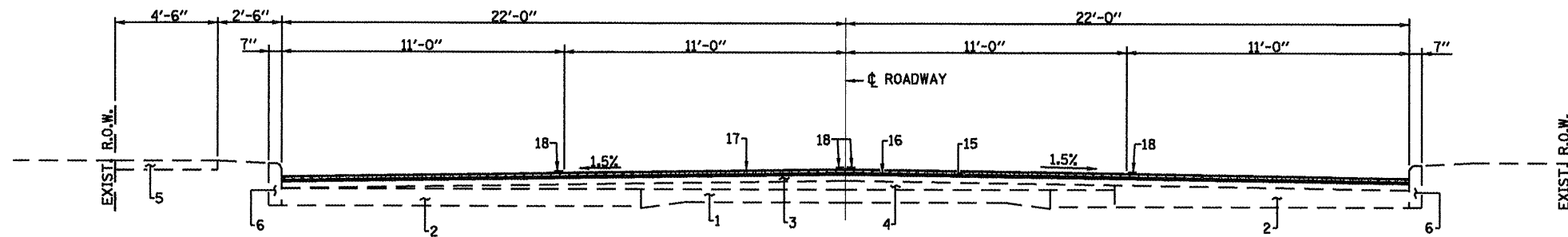
1. EXISTING PCC BASE COURSE 9"-6"-9"
2. EXISTING PCC BASE COURSE WIDENING 9"
3. EXISTING HOT MIX OVERLAY ( $\pm 5/4$ ")
4. EXISTING HOT MIX ASPHALT BASE COURSE (VARIABLE DEPTH)
5. EXISTING PCC SIDEWALK (4")
6. EXISTING CONCRETE CURB, TYPE B
7. EXISTING CORRUGATED MEDIAN, COMB. C.&G., TYPE M 6.06
8. EXISTING CORRUGATED MEDIAN, COMB. CONC. C.&G. TYPE M-6.06 WITH 4" MED. SURF. OR CONC. MED. TYPE M-6.06
9. EXISTING COMB. CONCRETE CURB AND GUTTER
10. EXISTING SAND CUSHION
11. EXISTING BRICK COURSE
12. EXISTING SUB - BASE GRANULAR MATERIAL (4")
13. EXISTING AGGREGATE SHOULDER
14. EXISTING HOT MIX ASPHALT SHOULDER
15. PROPOSED HOT MIX ASPHALT SURFACE REMOVAL 2 1/4"
16. PROPOSED LEVELING BINDER (MACHINE METHOD), 3/4"
17. PROPOSED HOT MIX ASPHALT SURFACE COURSE, 1 1/2"
18. PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE 5"
19. PROPOSED PORTLAND CEMENT CONCRETE BASE COURSE 12"
20. PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 4"
21. PROPOSED COMBINATION CURB AND GUTTER, TYP B-6.18
22. PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A (6")
23. PROPOSED AGGREGATE SHOULDER

TEMPORARY HOT MIX ASPHALT  
RAMP CONSTRUCTED IN ACCORDANCE  
WITH ARTICLES 406.08 - 406.14



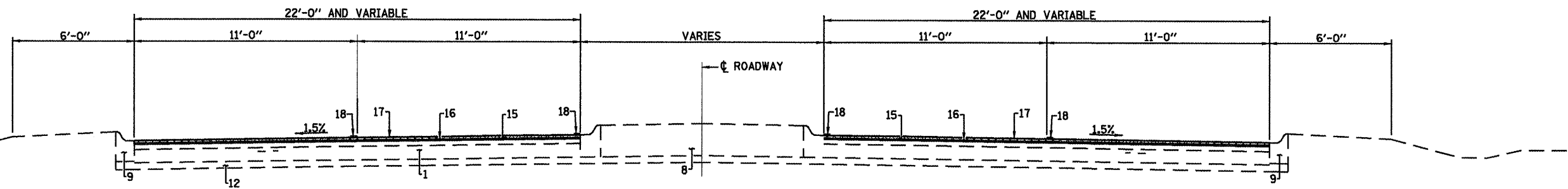
**TEMPORARY RAMP DETAIL**  
(STA. 50+69, STA. 57+50 & ALL  
INTERSECTING CROSS ROADS)

FILE NAME =	USER NAME = loughlir1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>DETAILS &amp; TYPICAL ROADWAY SECTIONS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -				320	(24ZRS-4, N 116RS-5	LOGAN	32	4
	PLOT SCALE = 6.0000' / IN.	CHECKED -	REVISED -		SCALE: SHEET NO. 4 OF 32 SHEETS STA. TO STA.		CONTRACT NO. 72998		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
	PLOT DATE = Mar-18-2010 02:16:27PM	DATE -	REVISED -								



**TYPICAL ROADWAY SECTION #3 (FAP ROUTES 320 & 717)**

STA. 59+83.00 TO STA. 61+94.10  
 STATION EQUATION STA. 61+94.10 (BK) = 0+00.00 (AH)  
 STA. 0+00.00 TO STA. 2+08.52

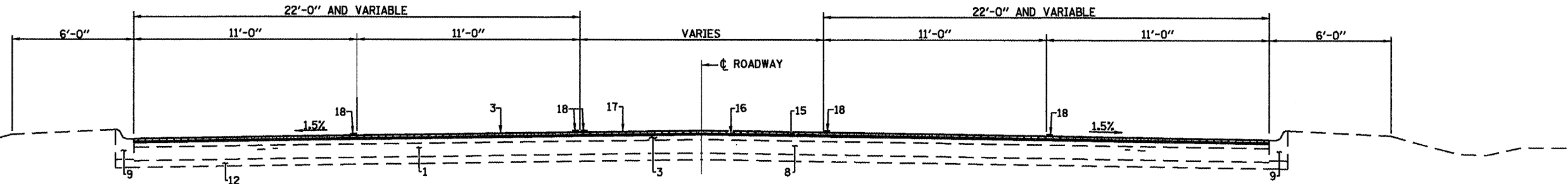


**TYPICAL ROADWAY SECTION #4 (FAP ROUTES 320 & 717)**

STA. 2+08.52 TO STA. 2+97.93 - (EXIST. CORRUGATED MEDIAN)  
 STA. 2+97.93 TO STA. 4+67.00 - (EXIST. COMB. CONC. C & G TYPE M-6.06 W/ 4" CONC. MED. SURF.)

**FAP ROUTE 320**

STA. 8+37.00 TO STA. 11+35.00 - (EXIST. COMB. CONC. C & G TYPE M-6.06 W/ 4" CONC. MED. SURF.)  
 STA. 11+35.00 TO STA. 13+04.05 - (EXIST. CORRUGATED MEDIAN)  
 STA. 47+51.88 TO STA. 48+06.31 - (EXIST. CORRUGATED MEDIAN)  
 STA. 48+06.31 TO STA. 50+10.56 - (EXIST. COMB. CONC. C & G TYPE M-6.06 W/ 4" CONC. MED. SURF.)  
 STA. 50+10.56 TO STA. 50+59.24 - (NO MEDIAN)




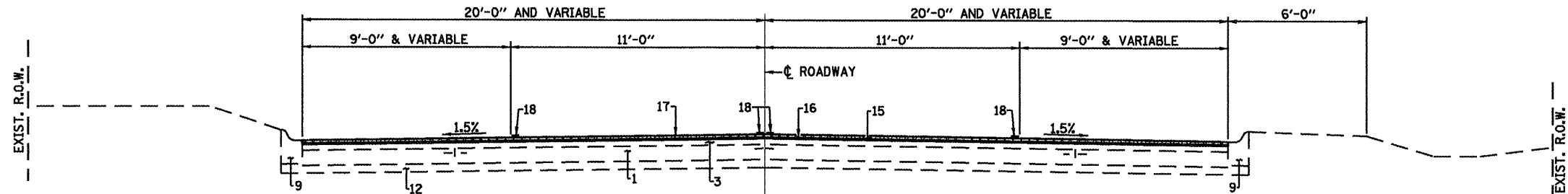
**TYPICAL ROADWAY SECTION #5 (FAP ROUTES 320 & 717)**

STA. 4+67.00 TO STA. 8+37.00

**PAVEMENT LEGEND**

1. EXISTING PCC BASE COURSE 9'-6"-9"
2. EXISTING PCC BASE COURSE WIDENING 9"
3. EXISTING HOT MIX OVERLAY (± 5/4")
4. EXISTING HOT MIX ASPHALT BASE COURSE (VARIABLE DEPTH)
5. EXISTING PCC SIDEWALK (4")
6. EXISTING CONCRETE CURB, TYPE B
7. EXISTING CORRUGATED MEDIAN, COMB. C.&G., TYPE M 6.06
8. EXISTING CORRUGATED MEDIAN, COMB. CONC. C.&G. TYPE M-6.06 WITH 4" MED. SURF. OR CONC. MED. TYPE M-6.06
9. EXISTING COMB. CONCRETE CURB AND GUTTER
10. EXISTING SAND CUSHION
11. EXISTING BRICK COURSE
12. EXISTING SUB - BASE GRANULAR MATERIAL (4")
13. EXISTING AGGREGATE SHOULDER
14. EXISTING HOT MIX ASPHALT SHOULDER
15. PROPOSED HOT MIX ASPHALT SURFACE REMOVAL 2/4"
16. PROPOSED LEVELING BINDER (MACHINE METHOD), 3/4"
17. PROPOSED HOT MIX ASPHALT SURFACE COURSE, 1 1/2"
18. PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE 5"
19. PROPOSED PORTLAND CEMENT CONCRETE BASE COURSE 12"
20. PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 4"
21. PROPOSED COMBINATION CURB AND GUTTER, TYP B-6.18
22. PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A (6")
23. PROPOSED AGGREGATE SHOULDER

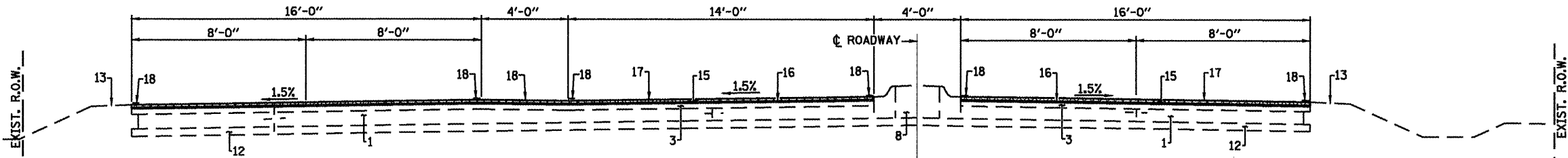
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>DETAILS &amp; TYPICAL ROADWAY SECTIONS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN -	REVISED -		SCALE:	SHEET NO. 5 OF 32 SHEETS	STA.	TO STA.	320	(242)RS-4, N; 116RS-5	LOGAN	32	5
		CHECKED -	REVISED -										
		DATE -	REVISED -										
							CONTRACT NO. 72998						
							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						



**TYPICAL ROADWAY SECTION #6 (FAP ROUTE 320)**

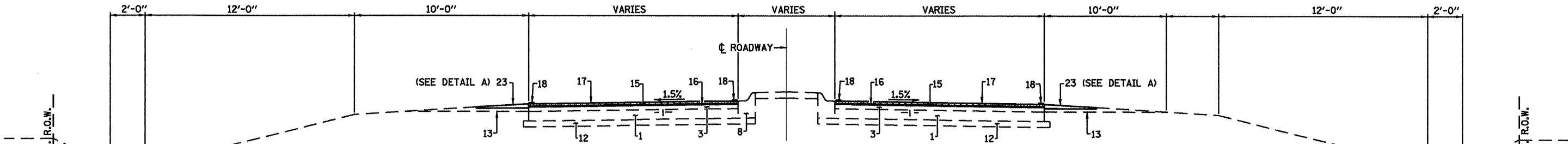
STA. 13+04.05 TO STA. 47+51.88

(NOTE: 7'-6" PARKING LANE QUANTITIES FROM STA. 18+50 TO STA. 47+00 (W. SIDE) & STA. 20+20 TO STA. 47+00 (E. SIDE) TO BE SHARED BY IDOT AND CITY OF LINCOLN PER AGREEMENT)



**TYPICAL ROADWAY SECTION #7 (FAP ROUTE 320)**

STA. 50+59.24 TO STA. 52+64.02

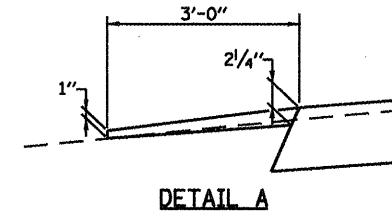


**TYPICAL ROADWAY SECTION #8 (FAP ROUTE 320)**

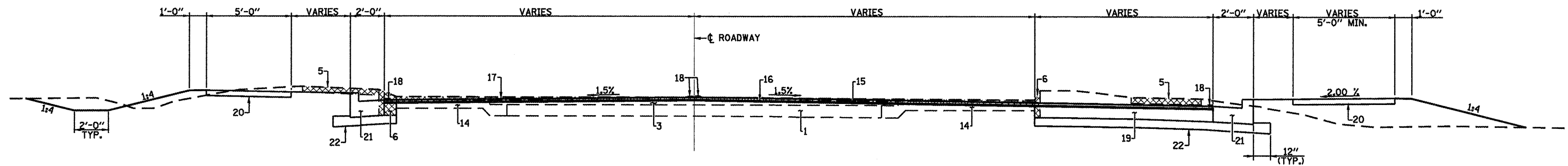
STA. 52+64.02 TO STA. 53+60.33 - (EXIST. CONC. MED. TYPE SM-6.06)  
 STA. 56+86.16 TO STA. 57+46.55 - (EXIST. CORRUGATED MEDIAN)  
 STA. 53+60.33 TO STA. 56+86.16 - (EXIST. COMB. CONC. C & G TYPE M-6.06 W/ 4" CONC. MED. SURF.)  
 STA. 57+46.55 TO STA. 57+50.00 - (NO MEDIAN)

**PAVEMENT LEGEND**

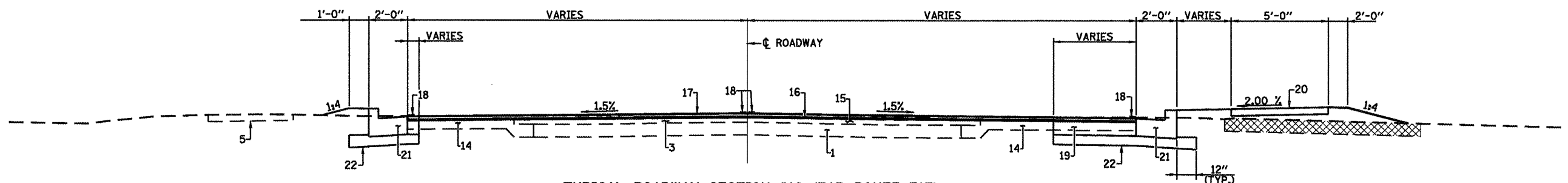
1. EXISTING PCC BASE COURSE 9"-6"-9"
2. EXISTING PCC BASE COURSE WIDENING 9"
3. EXISTING HOT MIX OVERLAY (± 5/4")
4. EXISTING HOT MIX ASPHALT BASE COURSE (VARIABLE DEPTH)
5. EXISTING PCC SIDEWALK (4")
6. EXISTING CONCRETE CURB, TYPE B
7. EXISTING CORRUGATED MEDIAN, COMB. C.&G., TYPE M 6.06
8. EXISTING CORRUGATED MEDIAN, COMB. CONC. C.&G. TYPE M-6.06 WITH 4" MED. SURF. OR CONC. MED. TYPE M-6.06
9. EXISTING COMB. CONCRETE CURB AND GUTTER
10. EXISTING SAND CUSHION
11. EXISTING BRICK COURSE
12. EXISTING SUB - BASE GRANULAR MATERIAL (4")
13. EXISTING AGGREGATE SHOULDER
14. EXISTING HOT MIX ASPHALT SHOULDER
15. PROPOSED HOT MIX ASPHALT SURFACE REMOVAL 2 1/4"
16. PROPOSED LEVELING BINDER (MACHINE METHOD), 3/4"
17. PROPOSED HOT MIX ASPHALT SURFACE COURSE, 1 1/2"
18. PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE 5"
19. PROPOSED PORTLAND CEMENT CONCRETE BASE COURSE 12"
20. PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 4"
21. PROPOSED COMBINATION CURB AND GUTTER, TYP B-6.18
22. PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A (6")
23. PROPOSED AGGREGATE SHOULDER



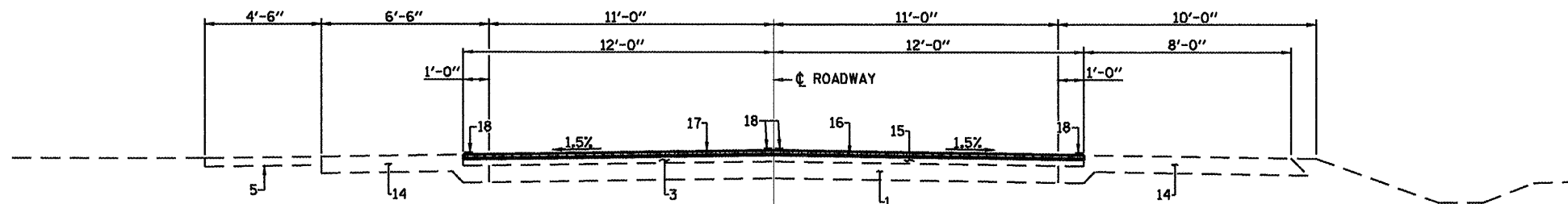
FILE NAME =	USER NAME = laughlinc1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>DETAILS &amp; TYPICAL ROADWAY SECTIONS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 6.0000' / IN.	DRAWN -	REVISED -				320	(242)RS-4, N 116RS-5	LOGAN	32	6
	PLOT DATE = Mar-18-2010 02:16:31PM	CHECKED -	REVISED -		SCALE: SHEET NO. 6 OF 32 SHEETS STA. TO STA.		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 72998		



**TYPICAL ROADWAY SECTION #9 (FAP ROUTE 717)**  
STA. 55+26.50 TO STA. 56+50



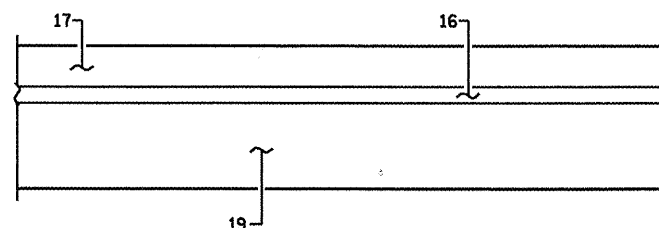
**TYPICAL ROADWAY SECTION #10 (FAP ROUTE 717)**  
STA. 56+50 TO STA. 57+80.50



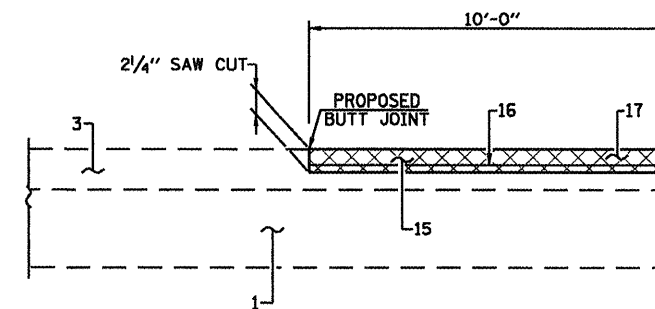
**TYPICAL ROADWAY SECTION #11 (FAP ROUTE 717)**  
STA. 57+80.50 TO STA. 58+50

**PAVEMENT LEGEND**

1. EXISTING PCC BASE COURSE 9'-6"-9"
2. EXISTING PCC BASE COURSE WIDENING 9"
3. EXISTING HOT MIX OVERLAY ( $\pm 5/4"$ )
4. EXISTING HOT MIX ASPHALT BASE COURSE (VARIABLE DEPTH)
5. EXISTING PCC SIDEWALK (4")
6. EXISTING CONCRETE CURB, TYPE B
7. EXISTING CORRUGATED MEDIAN, COMB. C.&G., TYPE M 6.06
8. EXISTING CORRUGATED MEDIAN, COMB. CONC. C.&G. TYPE M-6.06 WITH 4" MED. SURF. OR CONC. MED. TYPE M-6.06
9. EXISTING COMB. CONCRETE CURB AND GUTTER
10. EXISTING SAND CUSHION
11. EXISTING BRICK COURSE
12. EXISTING SUB - BASE GRANULAR MATERIAL (4")
13. EXISTING AGGREGATE SHOULDER
14. EXISTING HOT MIX ASPHALT SHOULDER
15. PROPOSED HOT MIX ASPHALT SURFACE REMOVAL 2/4"
16. PROPOSED LEVELING BINDER (MACHINE METHOD), 3/4"
17. PROPOSED HOT MIX ASPHALT SURFACE COURSE, 1/2"
18. PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE 5"
19. PROPOSED PORTLAND CEMENT CONCRETE BASE COURSE 12"
20. PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 4"
21. PROPOSED COMBINATION CURB AND GUTTER, TYP B-6.18
22. PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A (6")
23. PROPOSED AGGREGATE SHOULDER



**TYPICAL SECTION THRU MEDIAN SURFACE REMOVAL AREA**



**BUTT JOINT DETAIL**  
(AT EACH END OF PROJECT AND ALL INTERSECTION SIDE ROADS)

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<p>Allen Henderson &amp; Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<b>DETAILS &amp; TYPICAL ROADWAY SECTIONS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -				320	(242)RS-4, N 116RS-5	LOGAN	32	7
		CHECKED -	REVISED -		SCALE: SHEET NO. 7 OF 32 SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 72998		
		DATE -	REVISED -								





**SCHEDULE**  
**COMBINATION CURB AND GUTTER REMOVAL**

LOCATION	QUANTITY
	FOOT
STA. 9+00.85 (IL. 121) TO STA. 56+35 (IL. 10) RT.	150
STA. 6+82 (IL. 121) TO STA. 57+08 (IL. 10) LT.	260
TOTAL	410

**SCHEDULE**  
**PORTLAND CEMENT CONCRETE SIDEWALK 4"**

LOCATION	QUANTITY
	SQ. FT.
STA. 6+77 (IL. 121) TO STA. 56+61 LT.	916
STA. 8+90.85 (IL. 121) TO STA. 57+22 (IL. 10) RT.	1070
TOTAL	1986

**SCHEDULE**  
**PIPE CULVERTS, CLASS A, TYPE 1, RCCP 12"**

LOCATION	QUANTITY
	FOOT
STA. 55+55 14' LT. TO STA. 55+61 39' LT.	26
TOTAL	26

**SCHEDULE**  
**STORM SEWERS, CLASS A, TYPE 1, 15"**

LOCATION	QUANTITY
	FOOT
STA. 55+88 43.4' RT. TO STA. 56+05 60.2' RT.	24
STA. 56+05 60.2' RT. TO STA. 57+10 31.2 RT.	108
TOTAL	132

**SCHEDULE**  
**STORM SEWER REMOVAL**

LOCATION	QUANTITY
	FOOT
STA. 55+47 16' LT. TO 36' LT.	20
TOTAL	20

**SCHEDULE**  
**COMBINATION CONCRETE CURB AND GUTTER, TYPE B 6.18**

LOCATION	QUANTITY
	FOOT
STA. 9+01 (IL. 121) TO STA. 57+80.5 (IL. 10) RT.	267
STA. 6+82 (IL. 121) TO STA. 57+80.5 (IL. 10) LT.	331
TOTAL	598

**SCHEDULE**  
**DETECTABLE WARNINGS**

LOCATION	QUANTITY
	SQ. FT.
STA. 55+43 20' LT.	10
STA. 55+82 55' RT.	10
TOTAL	20

**SCHEDULE**  
**SUB-BASE GRANULAR MATERIAL, TYPE A 6"**

LOCATION	QUANTITY
	SQ. YD.
STA. 9+00.85 (IL. 121) TO STA. 57+80.5 RT. (IL. 10)	70
STA. 55+26 TO STA. 57+27.38 RT. (PAVEMENT)	212
STA. 55+26 TO STA. 56+36.81 LT. (PAVEMENT)	11
STA. 6+82 (IL. 121) TO STA. 57+80.5 (IL. 10) LT.	90
TOTAL	383

**SCHEDULE**  
**MEDIAN SURFACE REMOVAL**

LOCATION	QUANTITY
	SQ. FT.
STA. 2+08.5 TO STA. 3+52	731
STA. 11+33.5 TO STA. 13+04	775
STA. 47+52 TO STA. 48+06	237
STA. 56+85 TO STA. 57+47	255
TOTAL	1998

**SCHEDULE**  
**TRENCH BACKFILL**

LOCATION	QUANTITY
	CU. YD.
STA. 55+73 TO STA. 56+05 RT. (IL. 10)	4
STA. 56+05 TO STA. 57+10 RT. (IL. 10)	23
STA. 55+55 TO STA. 55+61 LT. (IL. 10)	5
TOTAL	32

**SCHEDULE**  
**PORTLAND CEMENT CONCRETE BASE COURSE 9"**

LOCATION	QUANTITY
	SQ. YD.
STA. 55+26 TO STA. 57+27.38 RT.	212
STA. 55+26 TO STA. 56+36.81 LT.	12
MEDIAN AREAS	222
TOTAL	446

**SCHEDULE**  
**SIDEWALK REMOVAL**

LOCATION	QUANTITY
	SQ. FT.
STA. 55+66 TO STA. 57+22 RT.	500
STA. 6+77 (IL. 121) TO STA. 56+61 (IL. 10) LT.	1117
TOTAL	1617

**SCHEDULE**  
**PRECAST REINFORCED CONCRETE END SECTIONS 12"**

LOCATION	QUANTITY
	SQ. FT.
STA. 55+61 39' LT.	1
TOTAL	1

**SCHEDULE**  
**ESTIMATED QUANTITIES FOR COMBINATION**  
**CURB AND GUTTER REMOVAL AND REPLACEMENT**  
**& MEDIAN SURFACE REMOVAL AND REPLACEMENT**

LOCATION	COMB. CURB & GUTTER REMOVAL & REPLACEMENT	MEDIAN SURFACE REMOVAL & REPLACEMENT
	FOOT	SQ. FT.
ENTIRE PROJECT ESTIMATE	1144	1260
TOTAL	1144	1260

**SCHEDULE**  
**PAVEMENT PATCHING TYPE III. 14"**

LOCATION	QUANTITY
	SQ. YD.
STA. 2+09, BOTH LANES, 1 PATCH @ 23 SQ. YD. & 1 PATCH @ 20 SQ. YD.	43
STA. 11+60, BOTH LANES, 2 PATCHES @ 19 SQ. YD. EACH	38
TOTAL	81

**SCHEDULE**  
**CLASS C PATCHES, TYPE III. 14"**

LOCATION	QUANTITY
	SQ. YD.
SOUTHBOUND STA. 57+58, BOTH LANES, 2 PATCHES @ 20 SQ. YD. EACH	40
NORTHBOUND STA. 57+58, BOTH LANES, 2 PATCHES @ 20 SQ. YD. EACH	40
TOTAL	80

**SCHEDULE**  
**AGGREGATE WEDGE SHOULDER, TYPE B**

LOCATION	QUANTITY
	TON
STA. 50+54+ TO STA. 57+50 (EAST SIDE)	16.5
STA. 50+59 TO STA. 57+50 (WEST SIDE)	16.5
TOTAL	33

**SCHEDULE**  
**WATER VALVES TO BE ADJUSTED**

LOCATION	QUANTITY
	EACH
STA. 52+29, 22' LT.	1
STA. 52+40, 56' LT.	1
STA. 55+69, 10' LT.	1
STA. 56+12, 12' RT.	1
STA. 56+12, 28' LT.	1
STA. 60+01, 34' RT.	1
STA. 60+11, 11' LT.	1
STA. 39+06, 16' RT.	1
STA. 41+42, 17' RT.	1
TOTAL	9

**SCHEDULE**  
**MANHOLES TO BE ADJUSTED**

LOCATION	QUANTITY
	EACH
STA. 52+09, 26' RT.	1
STA. 52+16, 2' RT.	1
STA. 52+69, 25' RT.	1
STA. 55+53, 21' RT.	1
STA. 56+02, 2' RT.	1
STA. 57+60, 15' RT.	1
STA. 59+31, 18' RT.	1
STA. 59+82, 1' RT.	1
STA. 60+30, 15' RT.	1
STA. 0+05, 18' RT.	1
STA. 1+68, 26' RT.	1
STA. 26+38, 27' RT.	1
STA. 30+34, 5' RT.	1
STA. 36+04, 1' RT.	1
STA. 39+25, 15' RT.	1
STA. 39+53, 6' RT.	1
STA. 40+55, 9' RT.	1
STA. 42+78, 7' RT.	1
STA. 43+13, 10' LT.	1
STA. 46+36, 11' LT.	1
STA. 46+54, 3' RT.	1
STA. 49+82, C	1
STA. 50+38, 16' LT.	1
TOTAL	23

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 USER NAME = laughlinr1  
 PLOT SCALE = 2.0000' / IN.  
 PLOT DATE = Mar-18-2018 @2:16:40PM

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -



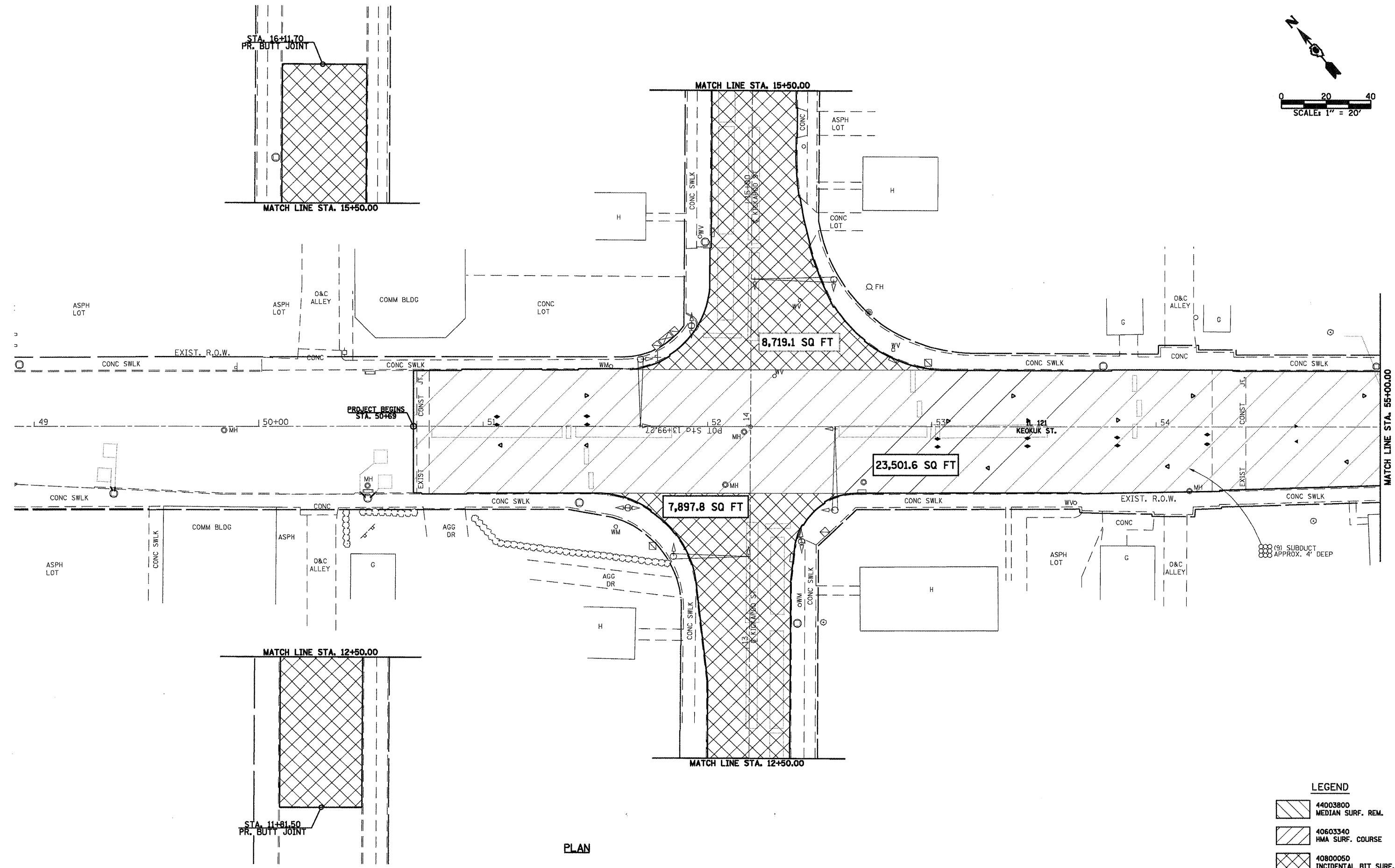
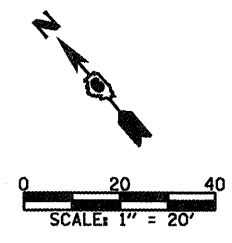
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL.  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

**QUANTITY SCHEDULES**

SCALE: SHEET NO. 9 OF 32 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(242)RS-4(116) RS-5	LOGAN	32	9

CONTRACT NO. 72998  
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

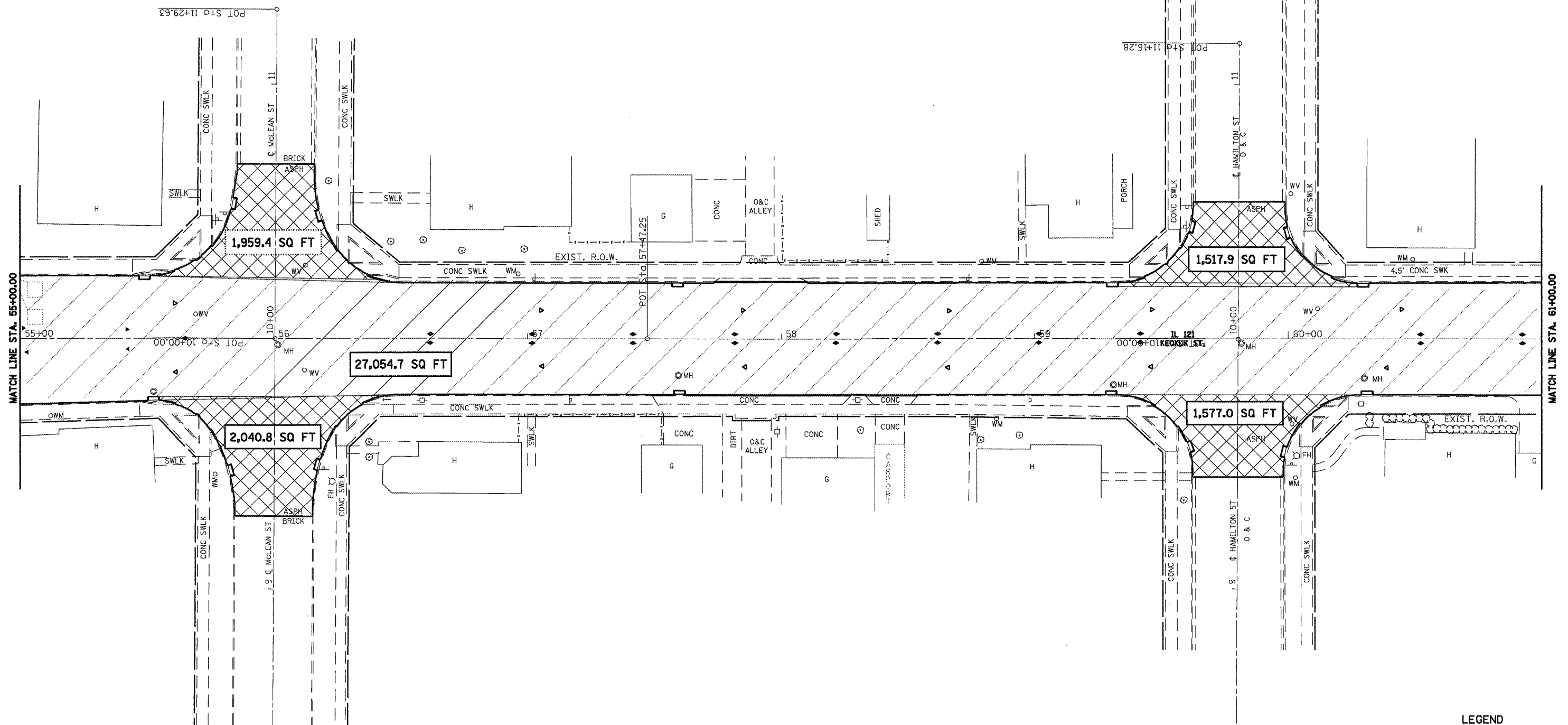
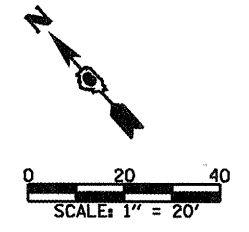


PLAN

**LEGEND**

	44003800 MEDIAN SURF. REM.
	40603340 HMA SURF. COURSE
	40800050 INCIDENTAL BIT SURF.

FILE NAME =	USER NAME = laughl1nr1	DESIGNED -	REVISED -	<p><b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<p align="center"><b>PAVEMENT REMOVAL PLAN</b></p>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 48.0000' / IN.	DRAWN -	REVISED -			320	(24Z)RS-4, N 116RS-5	LOGAN	32	10
	PLOT DATE = Mar-18-2018 02:16:42PM	CHECKED -	REVISED -			CONTRACT NO. 72998				
		DATE -	REVISED -			SCALE: 1" = 20'	SHEET NO. 10 OF 32 SHEETS	STA. 50+69.00 TO STA. 55+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT



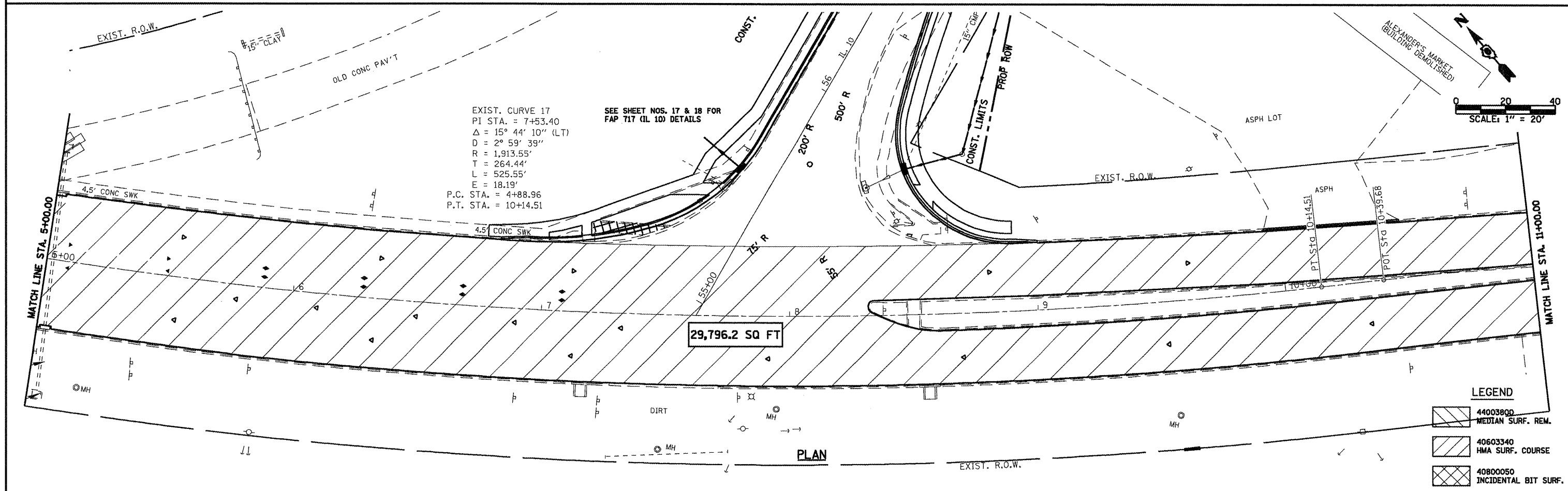
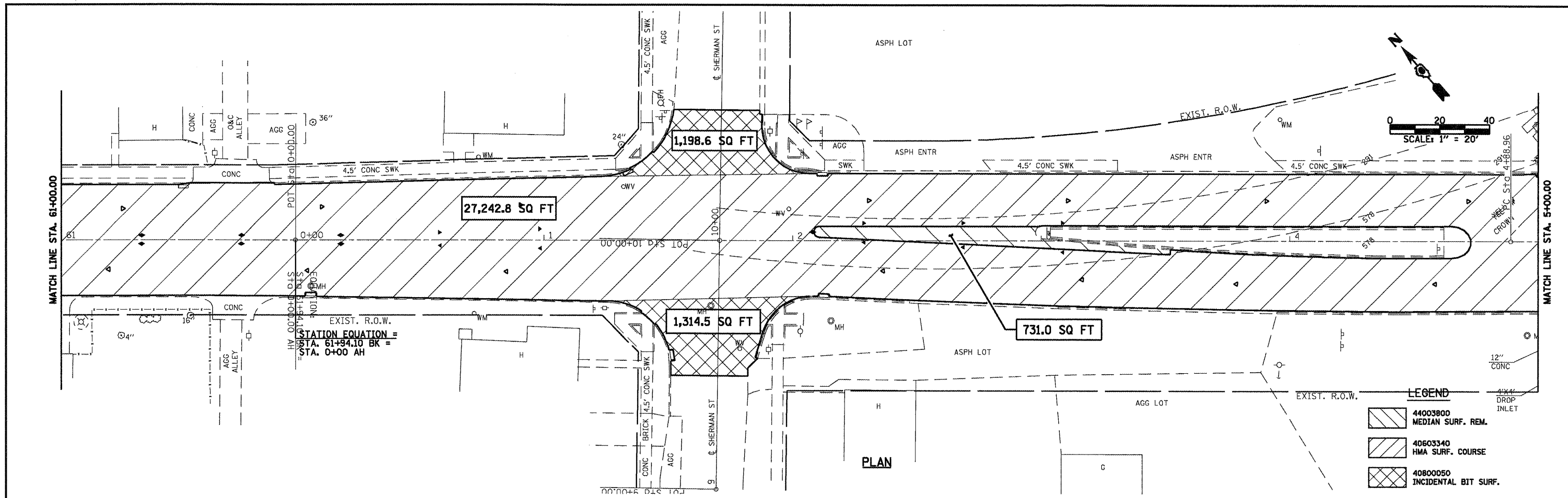
PLAN

**LEGEND**

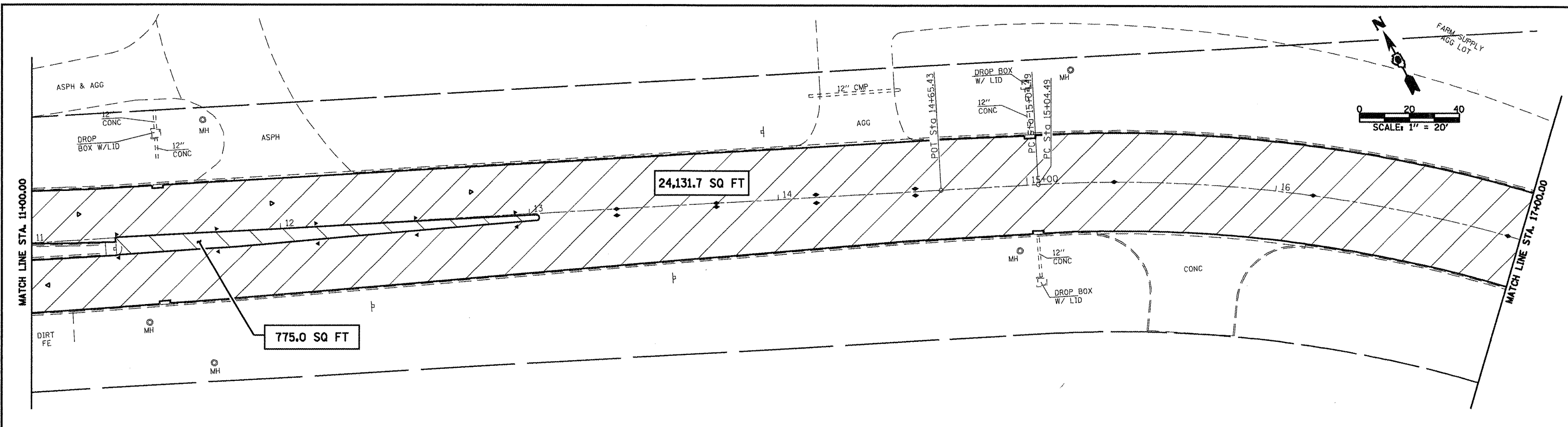
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	40603340 HMA SURF. COURSE
	40800050 INCIDENTAL BIT SURF.

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<p><b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62708 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<b>PAVEMENT REMOVAL PLAN</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40,0000' / IN.	DRAWN -	REVISED -				320	(24Z)RS-4, Nj 116RS-5	LOGAN	32	11	
	PLOT DATE = Mar-16-2018 02:46:45PM	CHECKED -	REVISED -		SCALE: 1" = 20' SHEET NO. 11 OF 32 SHEETS STA. 55+00.00 TO STA. 61+00.00		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 72998	
		DATE -	REVISED -									

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FILE NAME =	USER NAME = laughl1nrl	DESIGNED -	REVISED -	<p><b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<p align="center"><b>PAVEMENT REMOVAL PLAN</b></p> <p>SCALE: 1" = 20'    SHEET NO. 12 OF 32 SHEETS    STA. 61+00.00 TO STA. 11+00.00</p>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE -	REVISED -			FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT					
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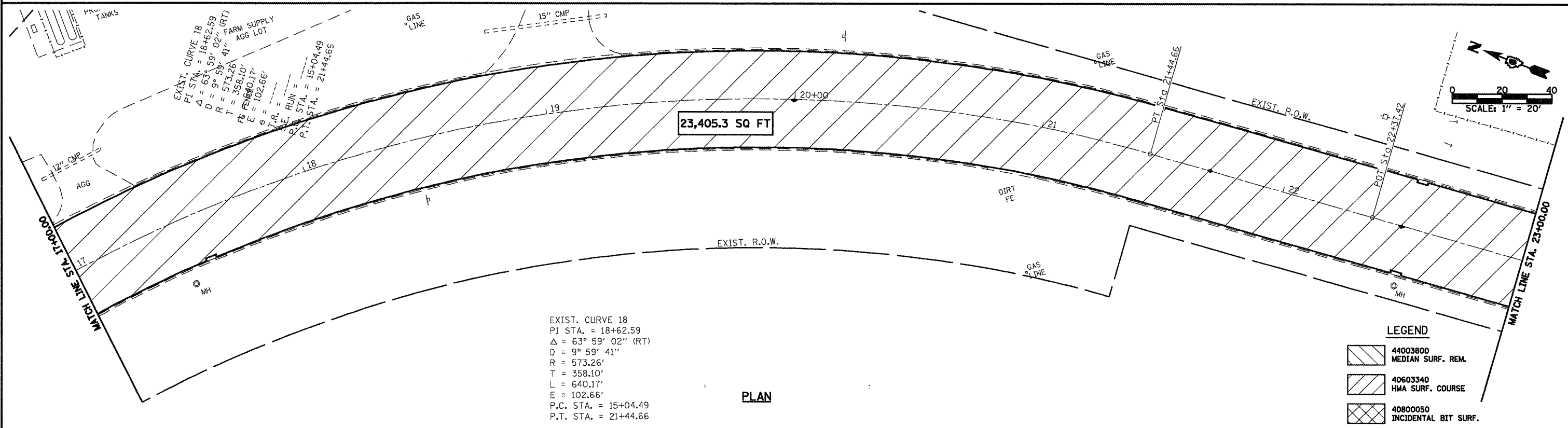


24,131.7 SQ FT

775.0 SQ FT

PLAN

- LEGEND**
- 44003800  
MEDIAN SURF. REM.
  - 40603340  
HMA SURF. COURSE
  - 40800050  
INCIDENTAL BIT SURF.



23,405.3 SQ FT

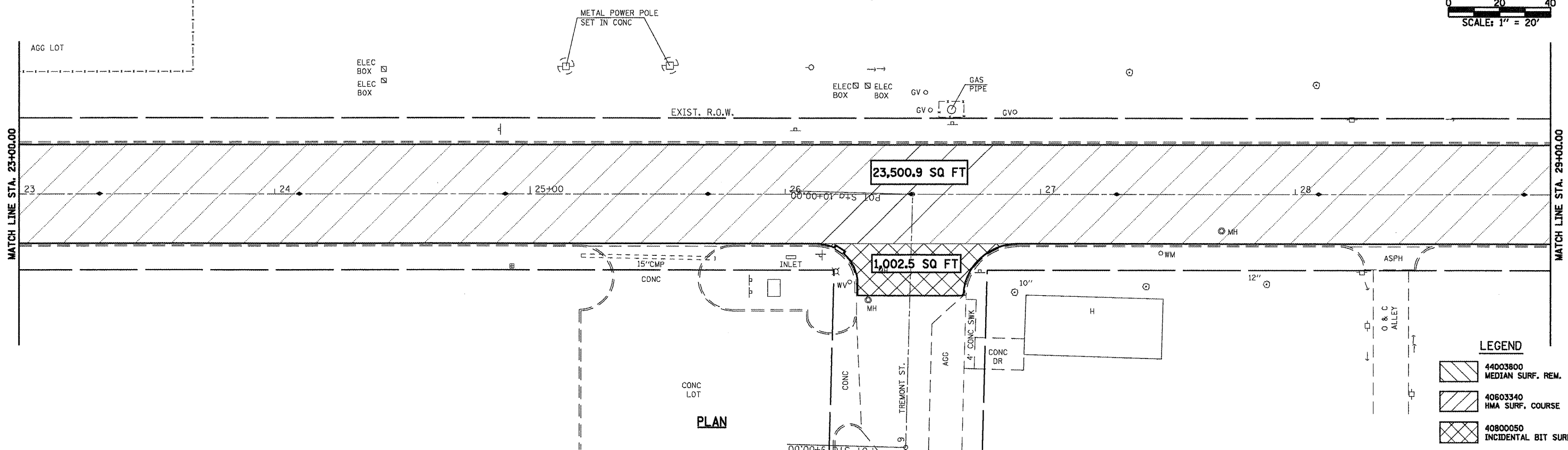
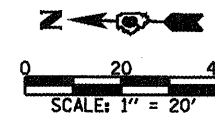
EXIST. CURVE 18  
 P.I. STA. = 18+62.59  
 $\Delta = 63^\circ 59' 02''$  (RT)  
 D =  $9^\circ 59' 41''$   
 R = 573.26'  
 T = 358.10'  
 L = 640.17'  
 E = 102.66'  
 P.C. STA. = 15+04.49  
 P.T. STA. = 21+44.66

PLAN

- LEGEND**
- 44003800  
MEDIAN SURF. REM.
  - 40603340  
HMA SURF. COURSE
  - 40800050  
INCIDENTAL BIT SURF.

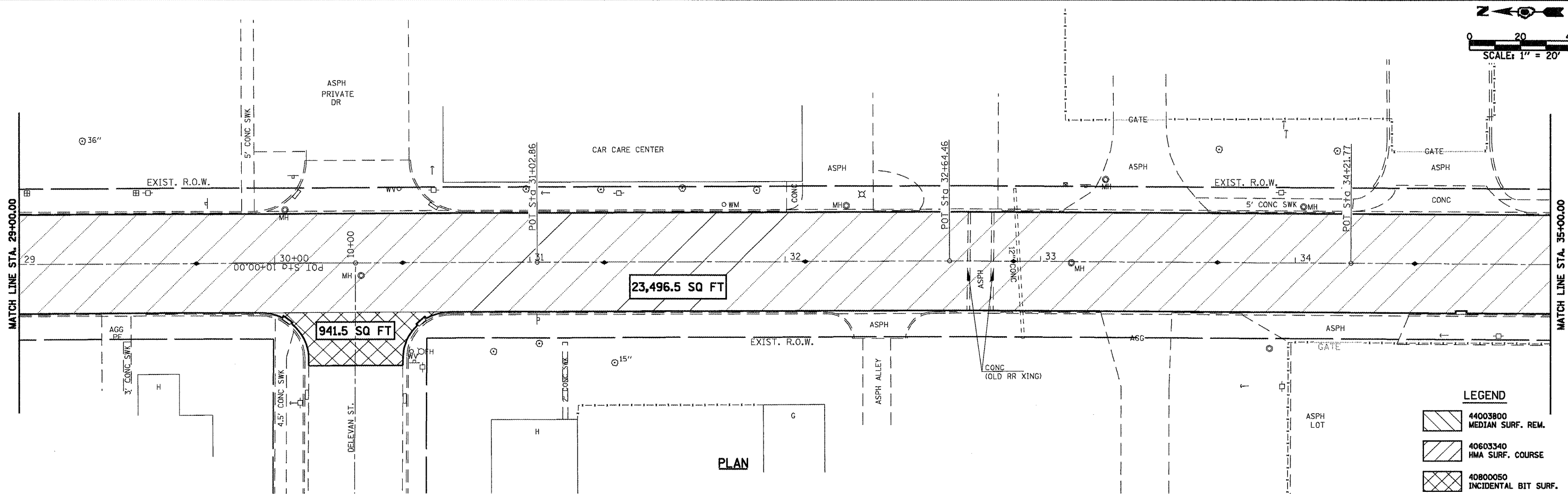
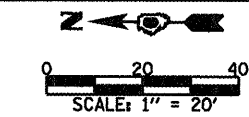
FILE NAME =	USER NAME = laughlrv1	DESIGNED -	REVISED -	<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>PAVEMENT REMOVAL PLAN</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -				320	(242)RS-4, N1 11GRS-5	LOGAN	32	13
		CHECKED -	REVISED -		SCALE: 1" = 20'    SHEET NO. 13 OF 32 SHEETS    STA. 11+00.00 TO STA. 23+00.00		CONTRACT NO. 72998				
		DATE -	REVISED -				FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT				

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**LEGEND**

	44003800 MEDIAN SURF. REM.
	40603340 HMA SURF. COURSE
	40800050 INCIDENTAL BIT SURF.

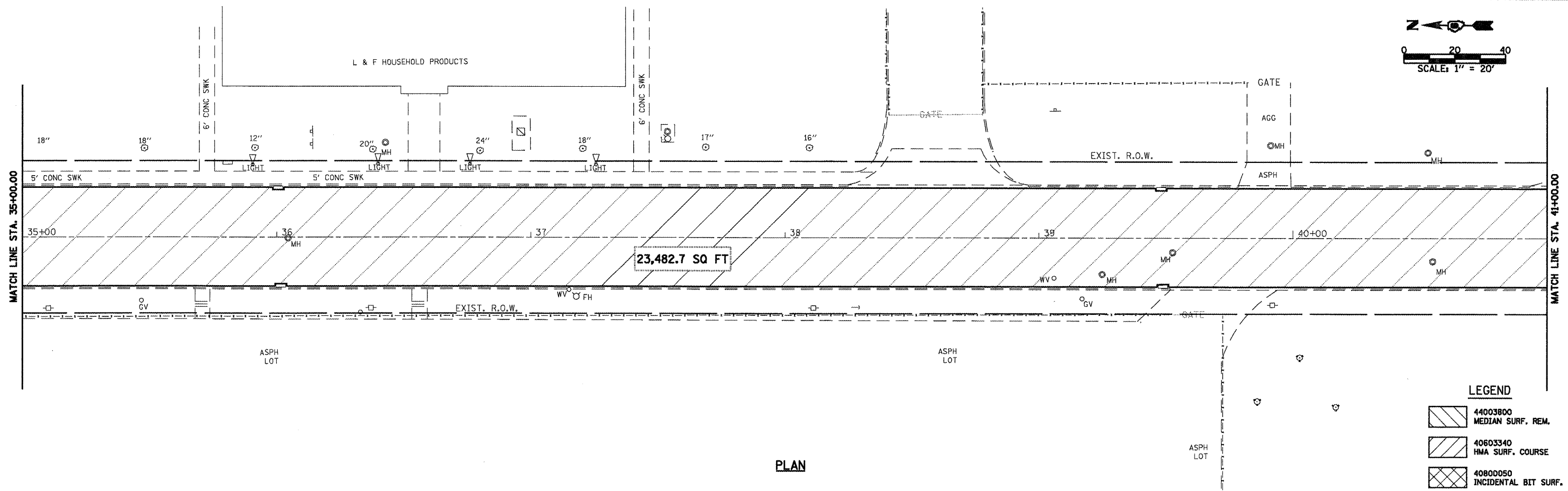


**LEGEND**

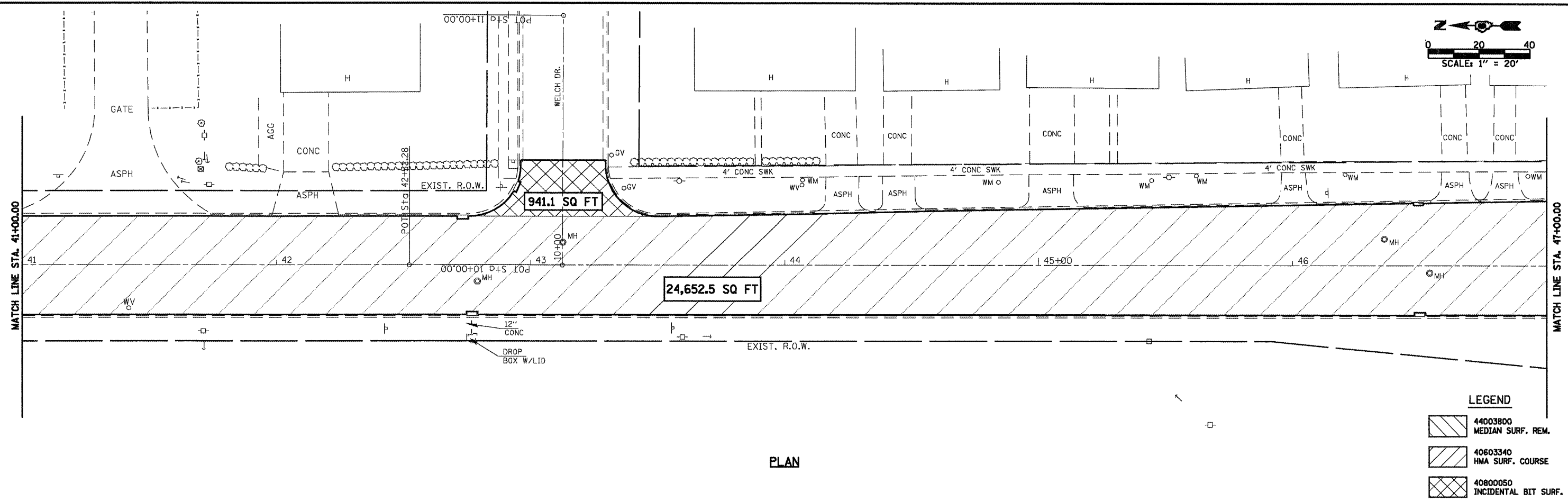
	44003800 MEDIAN SURF. REM.
	40603340 HMA SURF. COURSE
	40800050 INCIDENTAL BIT SURF.

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62708 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>PAVEMENT REMOVAL PLAN</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40,0000' / IN.	DRAWN -	REVISED -					320	(242)RS-4, N, 116RS-5	LOGAN	32	14
	PLOT DATE = Mar-18-2010 @2:16:53PM	CHECKED -	REVISED -		SCALE: 1" = 20'    SHEET NO. 14 OF 32 SHEETS    STA. 23+00.00 TO STA. 35+00.00				CONTRACT NO. 72998			
		DATE -	REVISED -		FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT							

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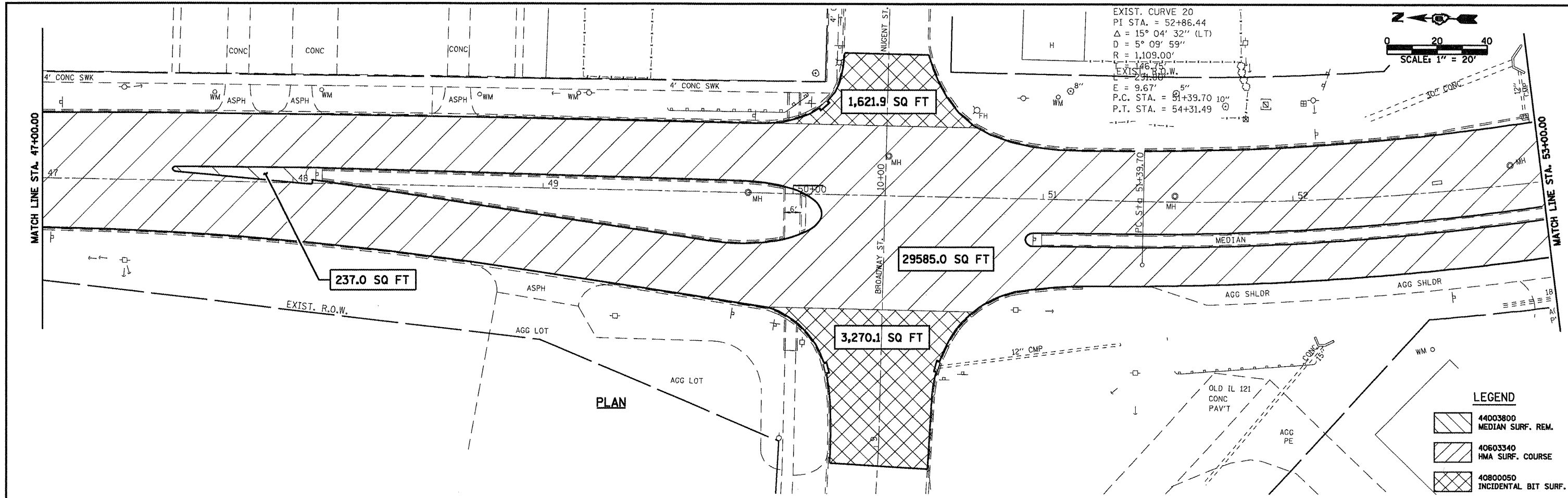
PLAN



PLAN

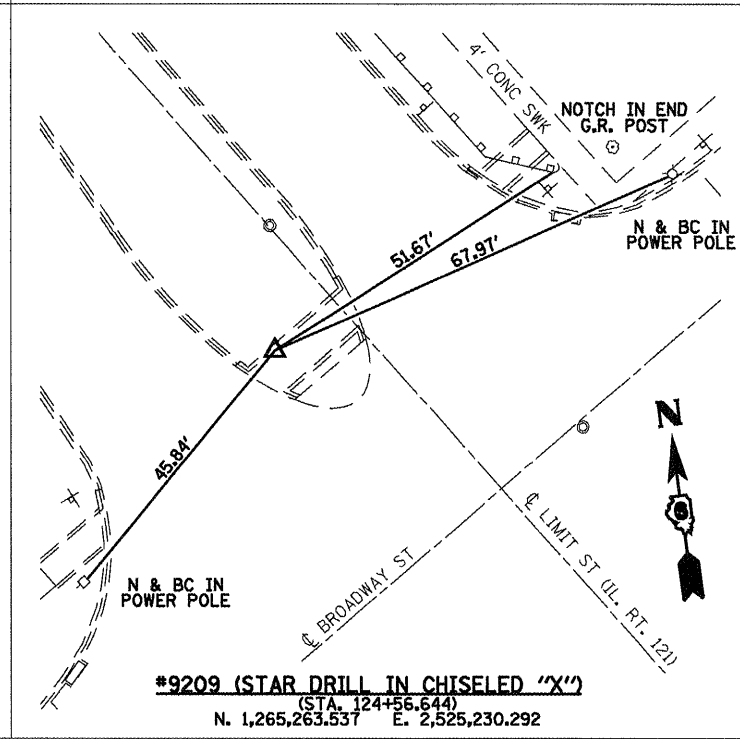
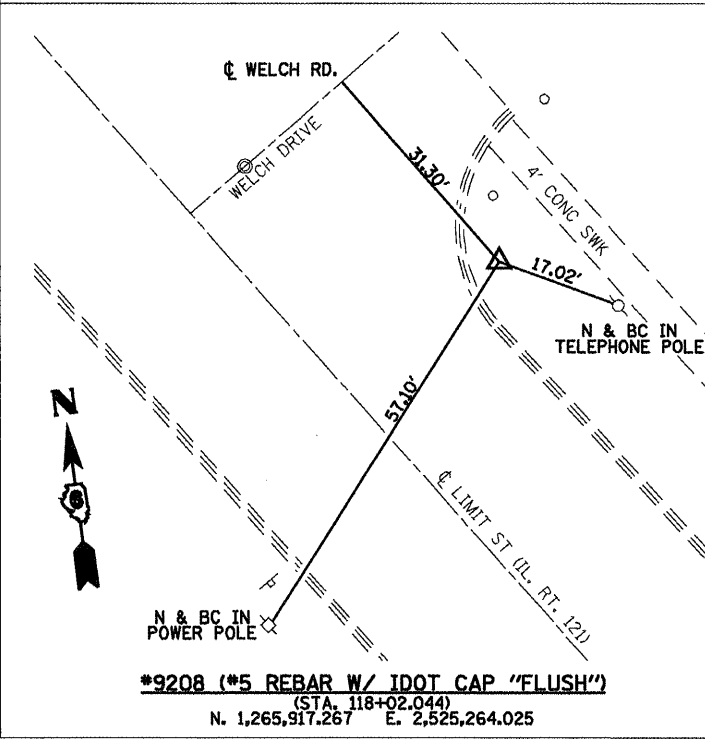
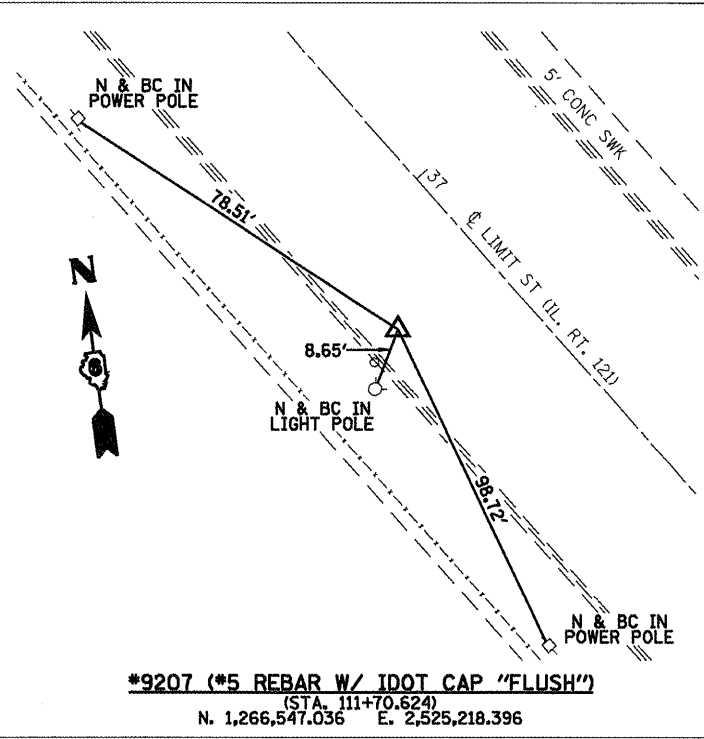
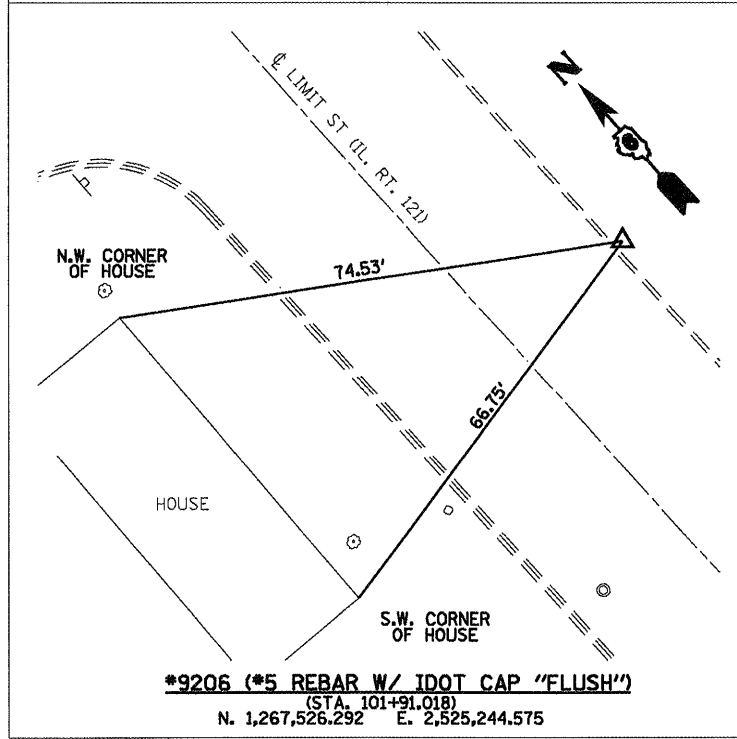
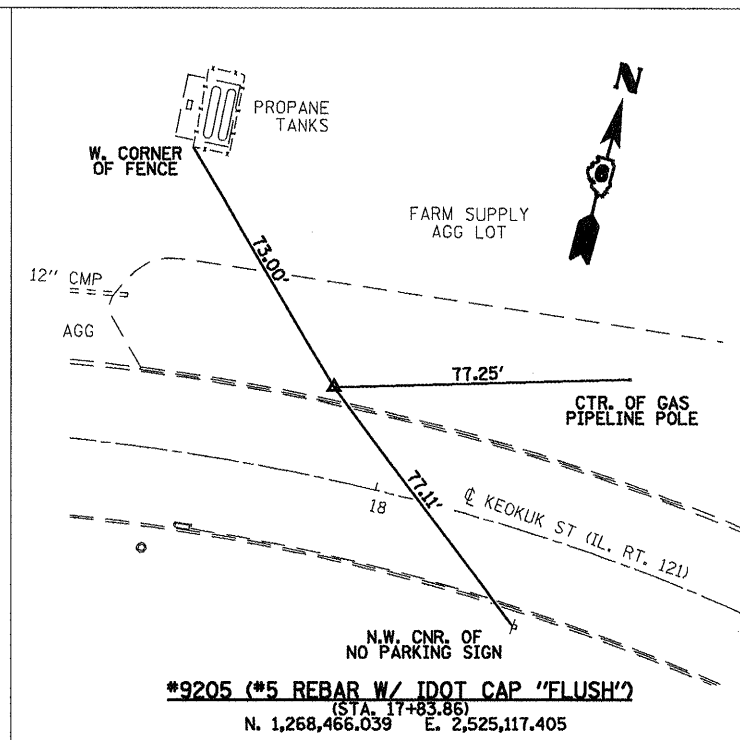
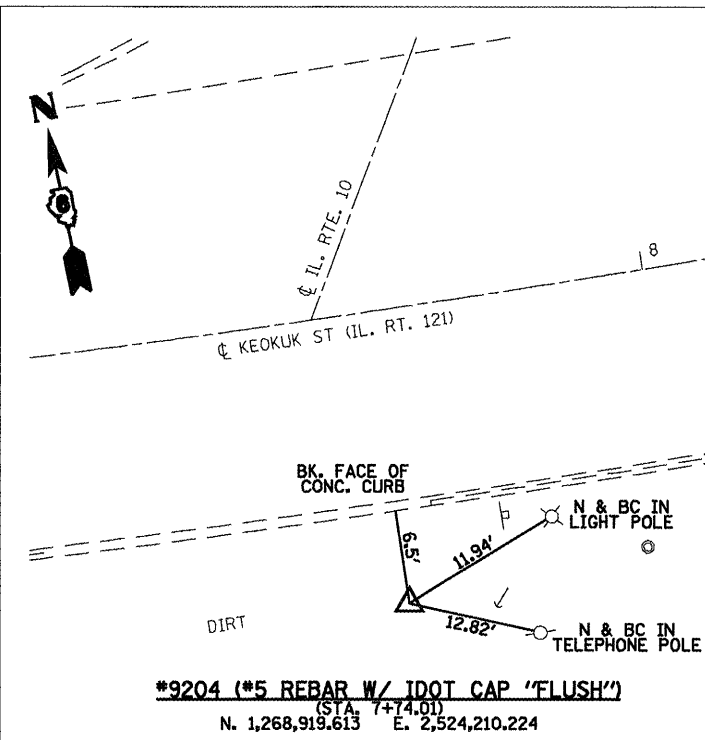
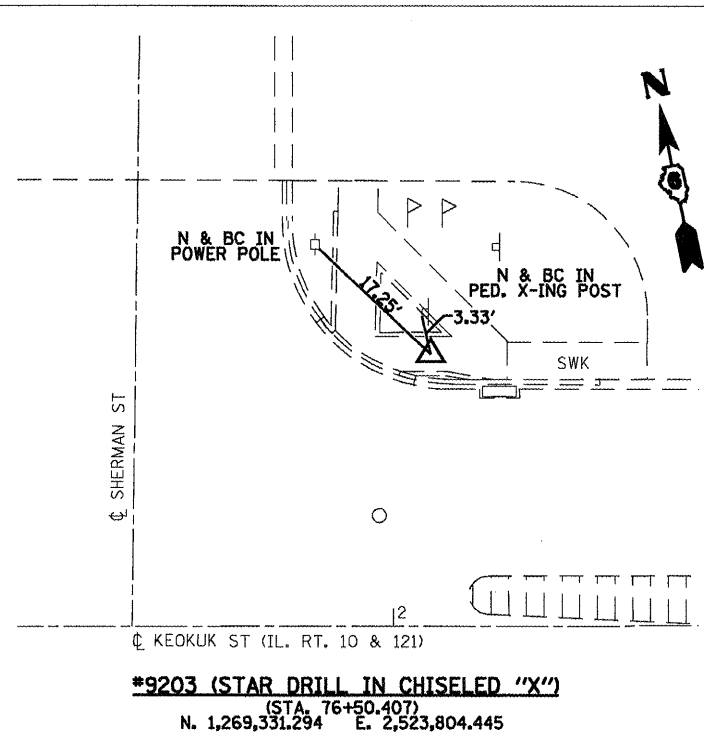
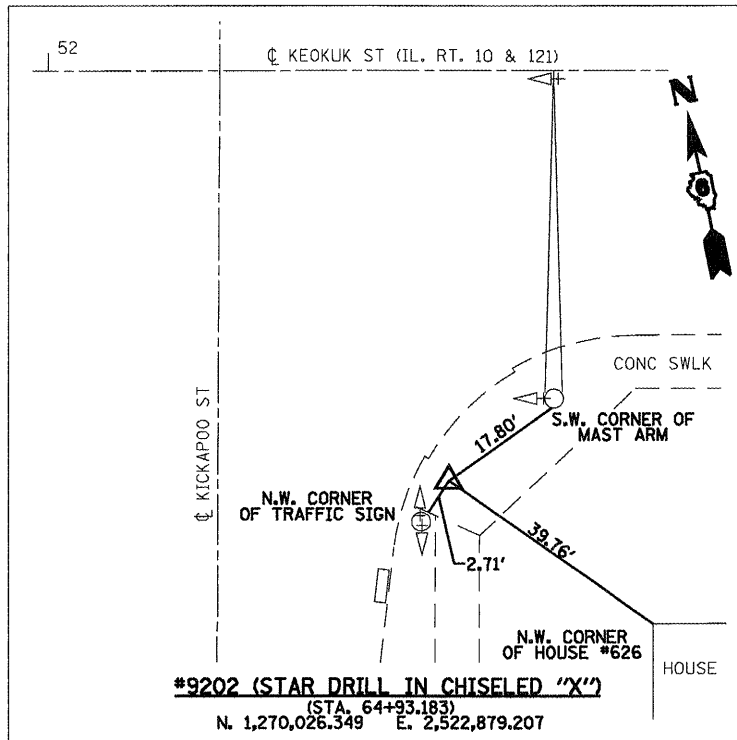
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>PAVEMENT REMOVAL PLAN</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 48,0000' / IN.	DRAWN -	REVISED -				320	(242)RS-4, Nj 116RS-5	LOGAN	32	15
	PLOT DATE = Mar-18-2018 @2:16:56PM	CHECKED -	REVISED -		SCALE: 1" = 20' SHEET NO. 15 OF 32 SHEETS STA. 35+00.00 TO STA. 47+00.00		CONTRACT NO. 72998		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -								

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PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Mar-18-2018 02:17:00PM		DATE -	REVISED -

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
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PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Mar-18-2018 02:17:00PM		DATE -	REVISED -

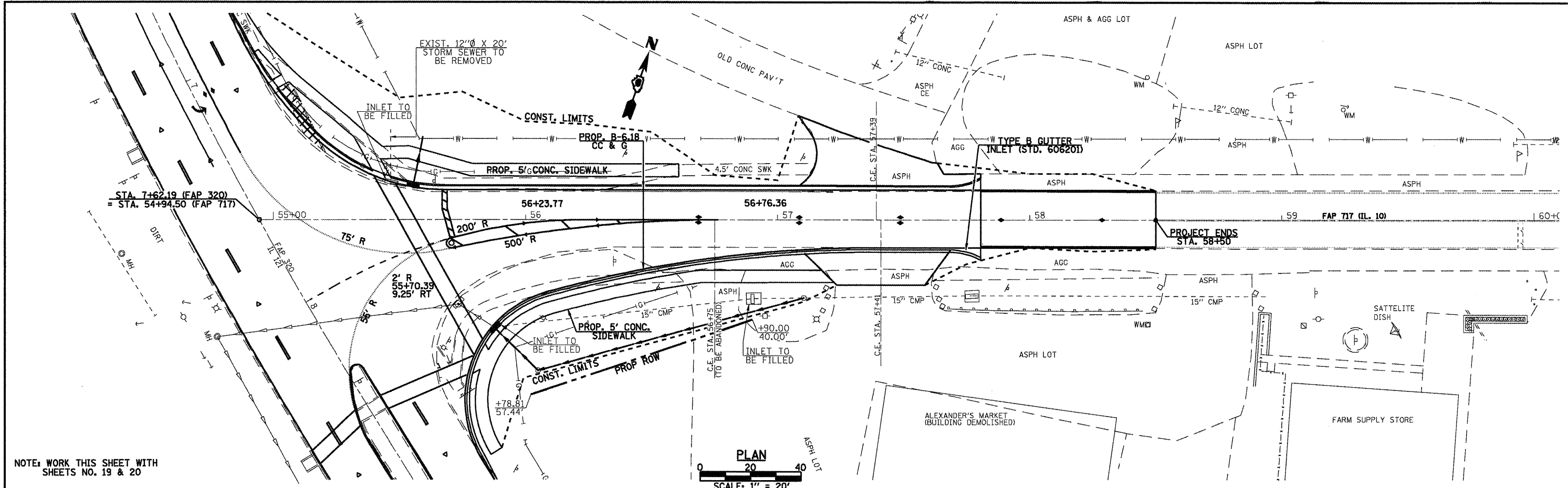
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL.  
 62708 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

<b>CONTROL POINT CROSS TIES</b>	
SCALE: NONE	SHEET NO. 17 OF 32 SHEETS
STA.	TO STA.

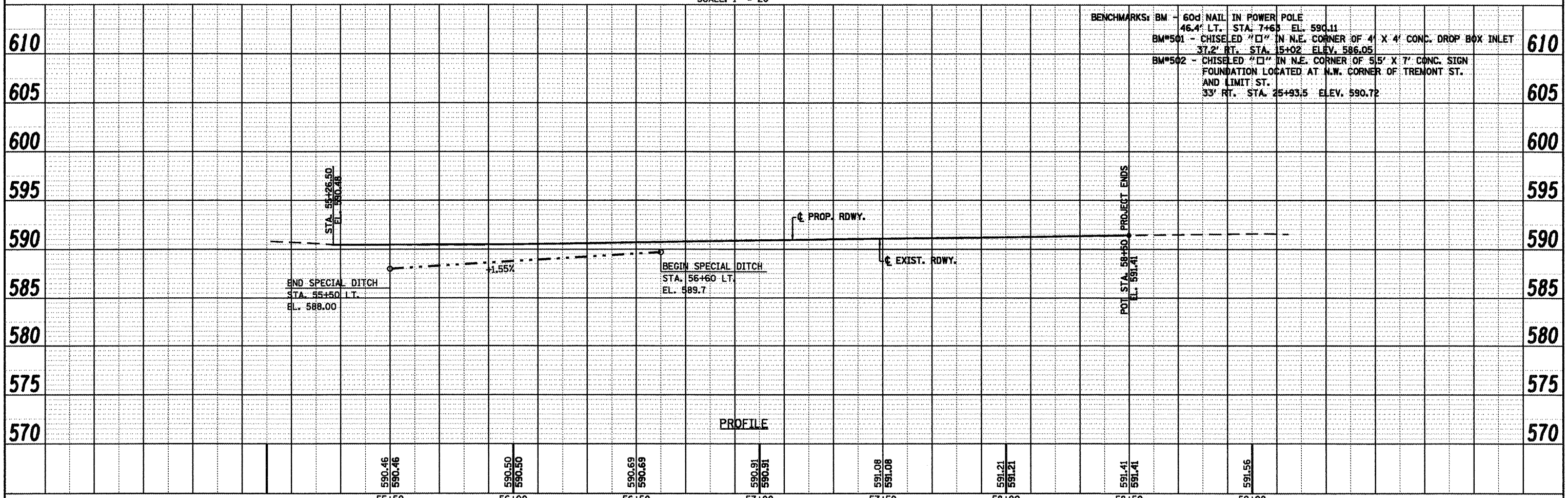
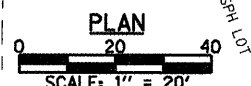
FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(242)RS-4 N 116RS-5	LOGAN	32	17
CONTRACT NO. 72998				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
REVISIONS	
PLANNED	
ALIGNED	
CHECKED	
NO. BOOK	
NO.	

DATE	
BY	
REVISIONS	
PLANNED	
BRIDGE	
CHECKED	
NO. BOOK	
NO.	



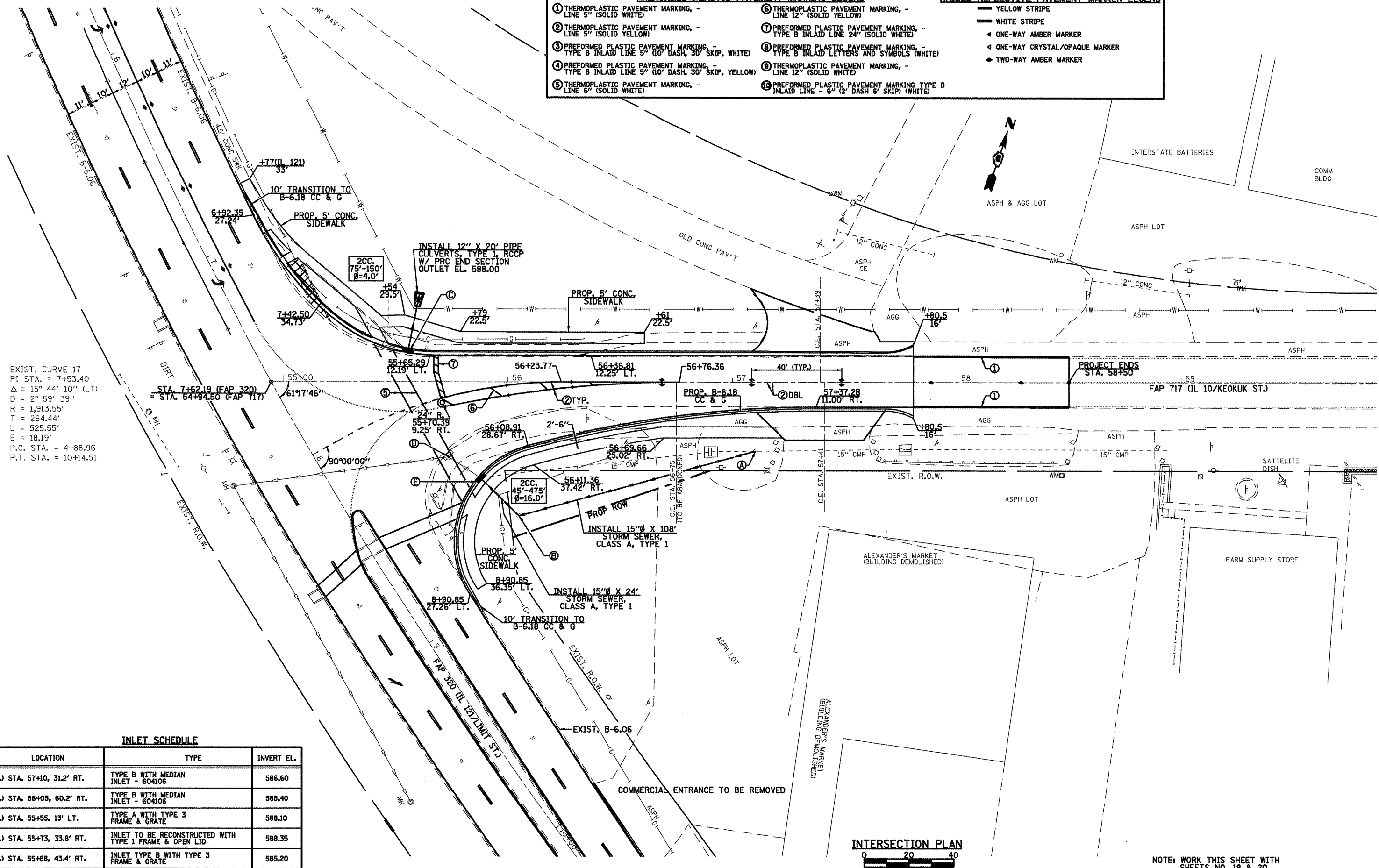
NOTE: WORK THIS SHEET WITH SHEETS NO. 19 & 20



BENCHMARKS: BM - 60d NAIL IN POWER POLE  
 46.4' LT. STA. 7+63 ELEV. 590.11  
 BM\*501 - CHISELED "I" IN N.E. CORNER OF 4' X 4' CONC. DROP BOX INLET  
 37.2' RT. STA. 15+02 ELEV. 586.05  
 BM\*502 - CHISELED "I" IN N.E. CORNER OF 5.5' X 7' CONC. SIGN FOUNDATION LOCATED AT N.W. CORNER OF TREMONT ST. AND LIMIT ST.  
 33' RT. STA. 25+93.5 ELEV. 590.72

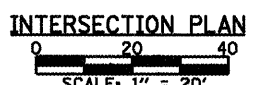
USER NAME = laughlinr1	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>PLAN &amp; PROFILE</b> SCALE: 1" = 20' SHEET NO. 18 OF 32 SHEETS STA. 55+26.50 TO STA. 58+50.00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 48.0000' / IN.	CHECKED -	REVISED -		717		(242)RS-4, N 116-RS-5	LOGAN	32	18	
PLOT DATE = Mar-18-2018 02:17:03PM	DRAWN -	REVISED -		CONTRACT NO. 72998						
	CHECKED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

PREFORMED PLASTIC PAVEMENT MARKING LEGEND		RAISED REFLECTIVE PAVEMENT MARKER LEGEND	
① THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID WHITE)	⑥ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID YELLOW)	— YELLOW STRIPE	— WHITE STRIPE
② THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID YELLOW)	⑦ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 24" (SOLID WHITE)	◀ ONE-WAY AMBER MARKER	◀ ONE-WAY CRYSTAL/OPAQUE MARKER
③ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, WHITE)	⑧ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LETTERS AND SYMBOLS (WHITE)	◄ TWO-WAY AMBER MARKER	
④ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, YELLOW)	⑨ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID WHITE)		
⑤ THERMOPLASTIC PAVEMENT MARKING, - LINE 6" (SOLID WHITE)	⑩ PREFORMED PLASTIC PAVEMENT MARKING TYPE B INLAID LINE - 6" (2' DASH 6' SKIP) (WHITE)		



EXIST. CURVE 17  
 PI STA. = 7+53.40  
 $\Delta = 15^\circ 44' 10''$  (LT)  
 $R = 2^\circ 59' 39''$   
 $T = 1,913.55'$   
 $L = 525.55'$   
 $E = 18.19'$   
 P.C. STA. = 4+88.96  
 P.T. STA. = 10+14.51

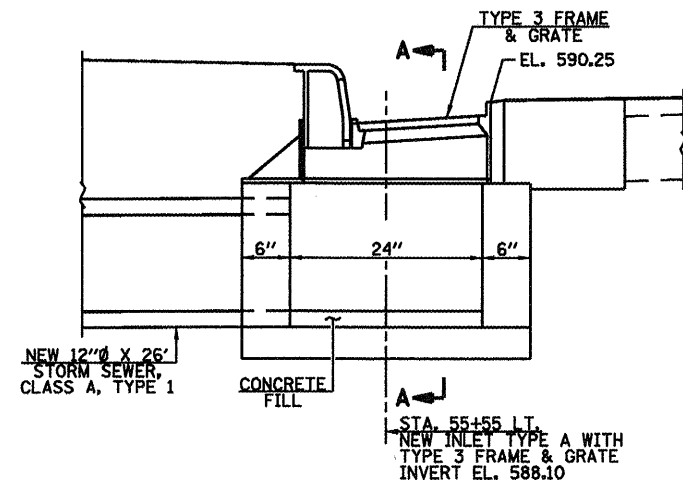
LOCATION	TYPE	INVERT EL.
A.) STA. 57+10, 31.2' RT.	TYPE B WITH MEDIAN INLET - 604106	586.60
B.) STA. 56+05, 60.2' RT.	TYPE B WITH MEDIAN INLET - 604106	585.40
C.) STA. 55+55, 13' LT.	TYPE A WITH TYPE 3 FRAME & GRATE	588.10
D.) STA. 55+73, 33.8' RT.	INLET TO BE RECONSTRUCTED WITH TYPE 1 FRAME & OPEN LID	588.35
E.) STA. 55+88, 43.4' RT.	INLET TYPE B WITH TYPE 3 FRAME & GRATE	585.20



NOTE: WORK THIS SHEET WITH SHEETS NO. 18 & 20

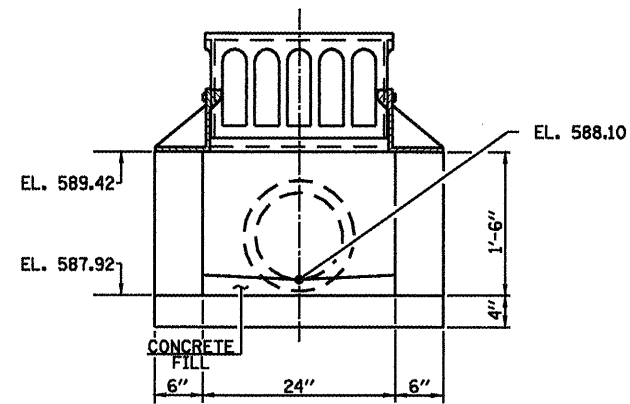
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 48.0000' / IN.	DRAWN -	REVISED -		717	(242)RS-4,N 116RS-5)	LOGAN	32	19
	PLOT DATE = Mar-18-2010 02:17:05PM	CHECKED -	REVISED -		INTERSECTION DETAILS (IL 121 & IL 10/KEOKUK STREET)		CONTRACT NO. 72998		
		DATE -	REVISED -		SCALE: 1" = 20'	SHEET NO. 19 OF 32 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

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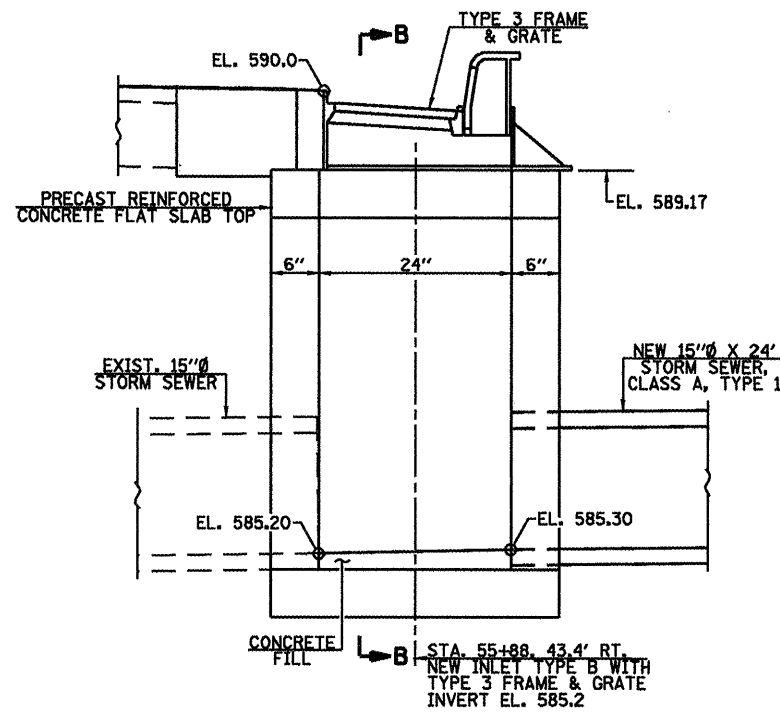


**ELEVATION**

**INLET TYPE A**  
(STA. 55+55 13' LT.)

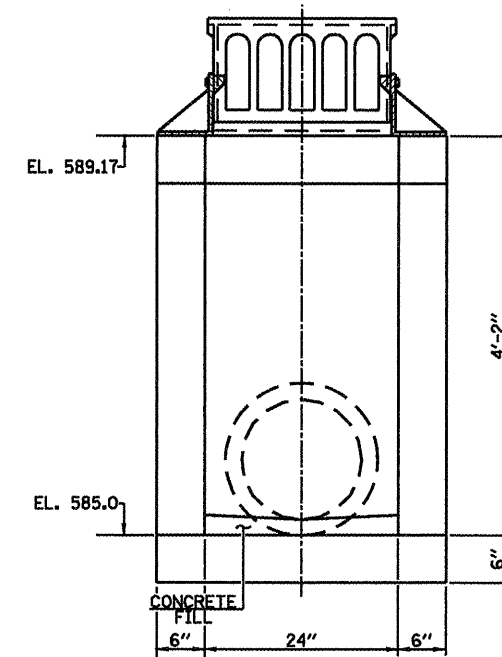


**SECTION A-A**

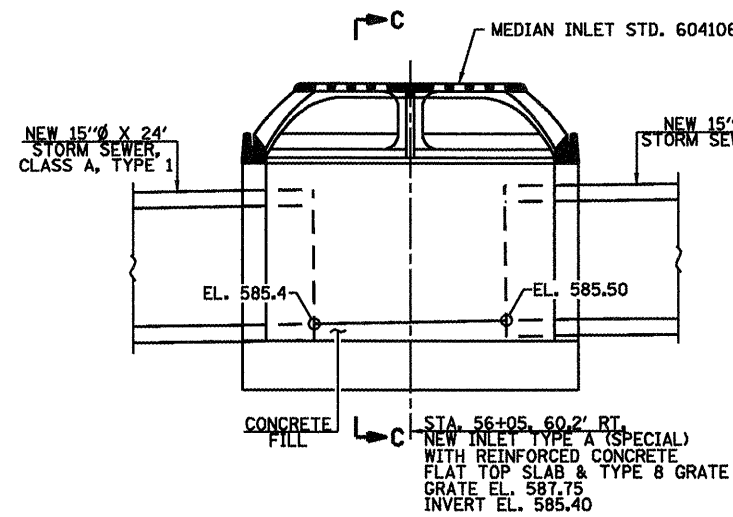


**ELEVATION**

**INLET TYPE B**  
(STA. 55+88 43.4' RT.)

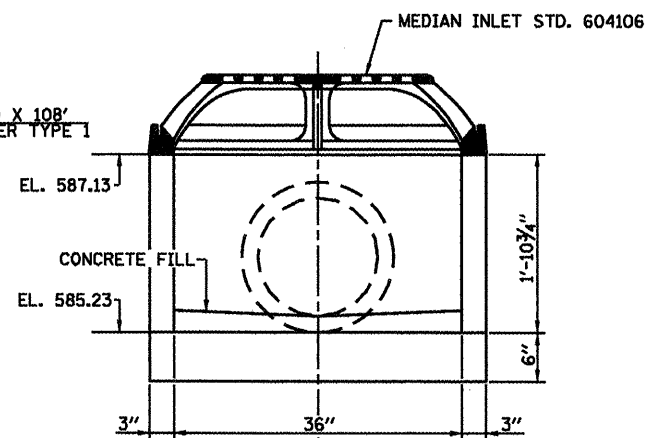


**SECTION B-B**

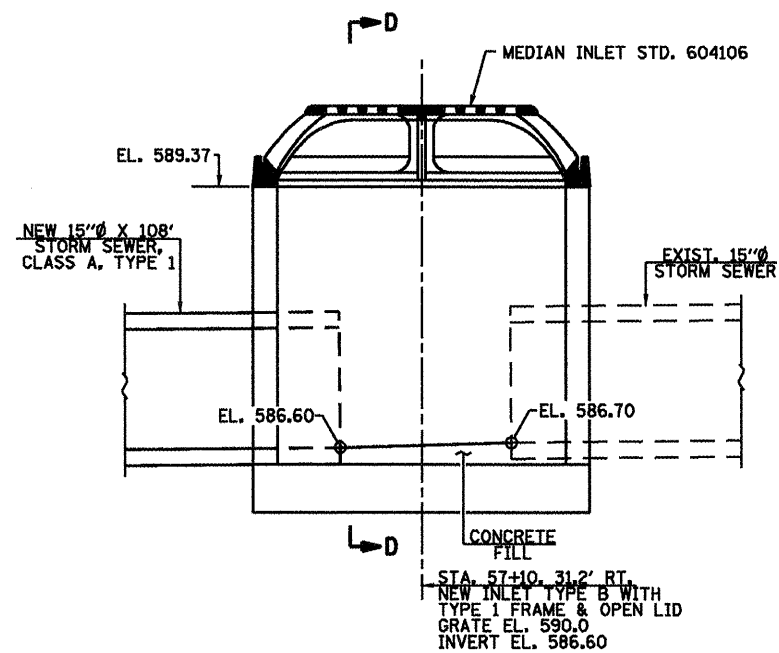


**ELEVATION**

**INLET TYPE B**  
(3'-0" DIAMETER)  
(STA. 56+05 60.2' RT.)

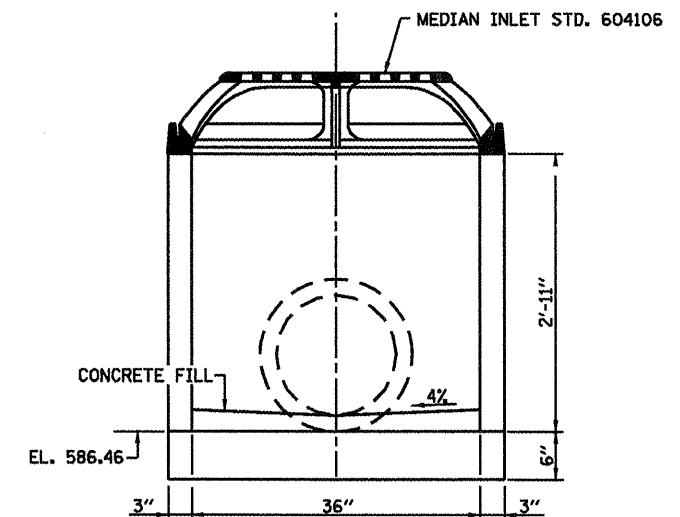


**SECTION C-C**



**ELEVATION**

**INLET TYPE B**  
(STA. 57+10 31.2' RT.)



**SECTION D-D**

NOTE: WORK THIS SHEET WITH SHEETS NO. 18 & 19

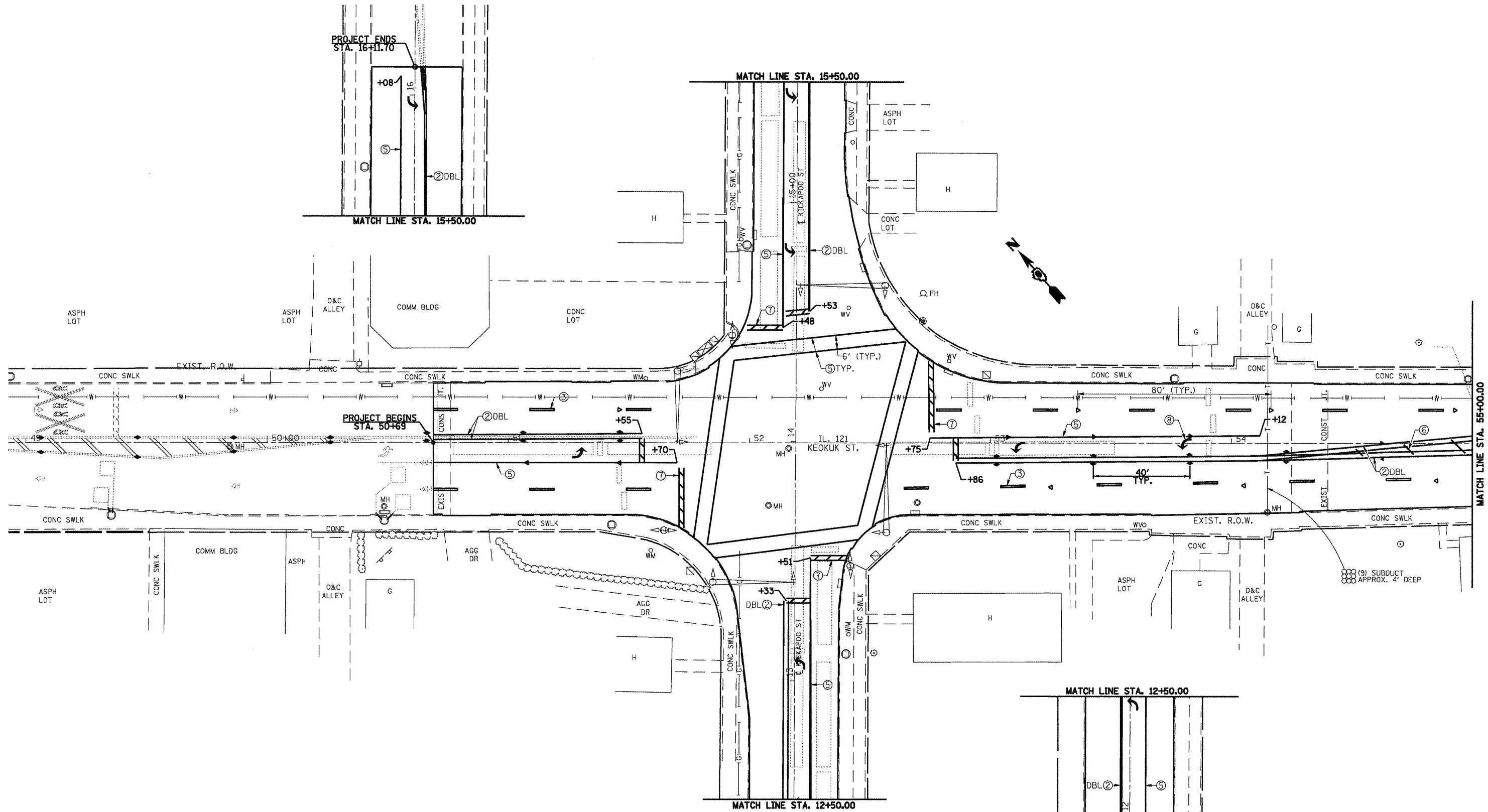
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	PLOT DATE = Mar-18-2018 02:17:09PM	DATE -	REVISED -



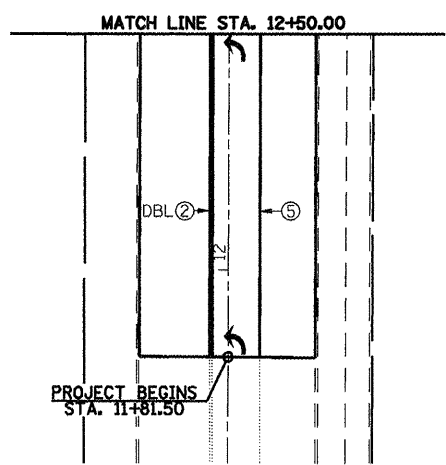
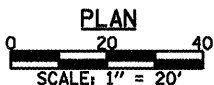
**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL.  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

<b>INLET DETAILS</b>	
SCALE: 1/2" = 1'	SHEET NO. 20 OF 32 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T17	(24Z)RS-4,N 116RS-5	LOGAN	32	20
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 72988		



PREFORMED PLASTIC PAVEMENT MARKING LEGEND		RAISED REFLECTIVE PAVEMENT MARKER LEGEND	
① THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID WHITE)	⑥ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID YELLOW)	— YELLOW STRIPE	— WHITE STRIPE
② THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID YELLOW)	⑦ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 24" (SOLID WHITE)	◀ ONE-WAY AMBER MARKER	◀ ONE-WAY CRYSTAL/OPAQUE MARKER
③ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, WHITE)	⑧ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LETTERS AND SYMBOLS (WHITE)	◀ TWO-WAY AMBER MARKER	
④ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, YELLOW)	⑨ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID WHITE)		
⑤ THERMOPLASTIC PAVEMENT MARKING, - LINE 6" (SOLID WHITE)	⑩ PREFORMED PLASTIC PAVEMENT MARKING TYPE B INLAID LINE - 6" (2' DASH 6' SKIP) (WHITE)		

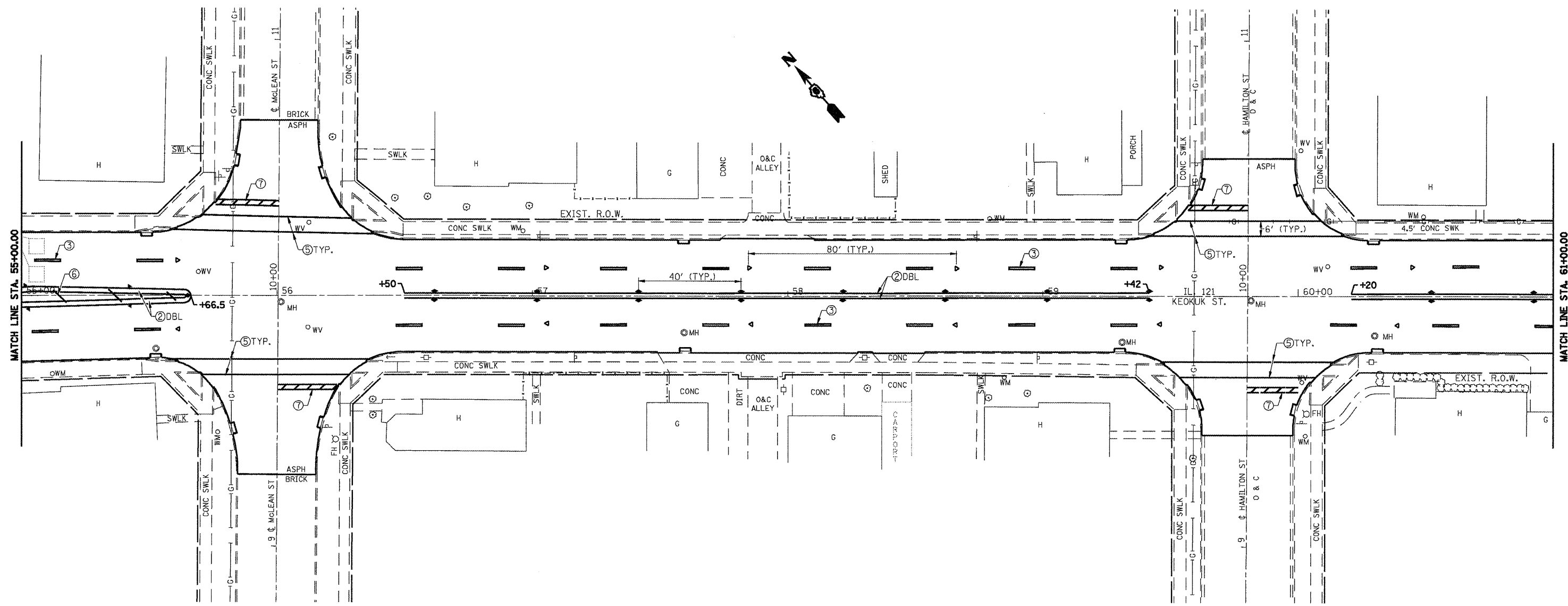


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		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

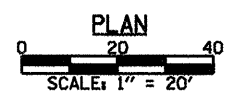
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

<b>STRIPING AND PAVEMENT MARKER PLAN</b>	
SCALE: 1" = 20'	SHEET NO. 21 OF 32 SHEETS
STA. 50+69.00 TO STA. 55+00.00	

F.A.P. RTE. 320	SECTION (24Z)RS-4, N, 116RS-5	COUNTY LOGAN	TOTAL SHEETS 32	SHEET NO. 21
CONTRACT NO. 72998				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PREFORMED PLASTIC PAVEMENT MARKING LEGEND		RAISED REFLECTIVE PAVEMENT MARKER LEGEND
① THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID WHITE)	⑥ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID YELLOW)	— YELLOW STRIPE
② THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID YELLOW)	⑦ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 24" (SOLID WHITE)	— WHITE STRIPE
③ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, WHITE)	⑧ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LETTERS AND SYMBOLS (WHITE)	◀ ONE-WAY AMBER MARKER
④ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, YELLOW)	⑨ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID WHITE)	◀ ONE-WAY CRYSTAL/OPAQUE MARKER
⑤ THERMOPLASTIC PAVEMENT MARKING, - LINE 6" (SOLID WHITE)	⑩ PREFORMED PLASTIC PAVEMENT MARKING TYPE B INLAID LINE - 6" (2' DASH 6' SKIP) (WHITE)	◀ TWO-WAY AMBER MARKER



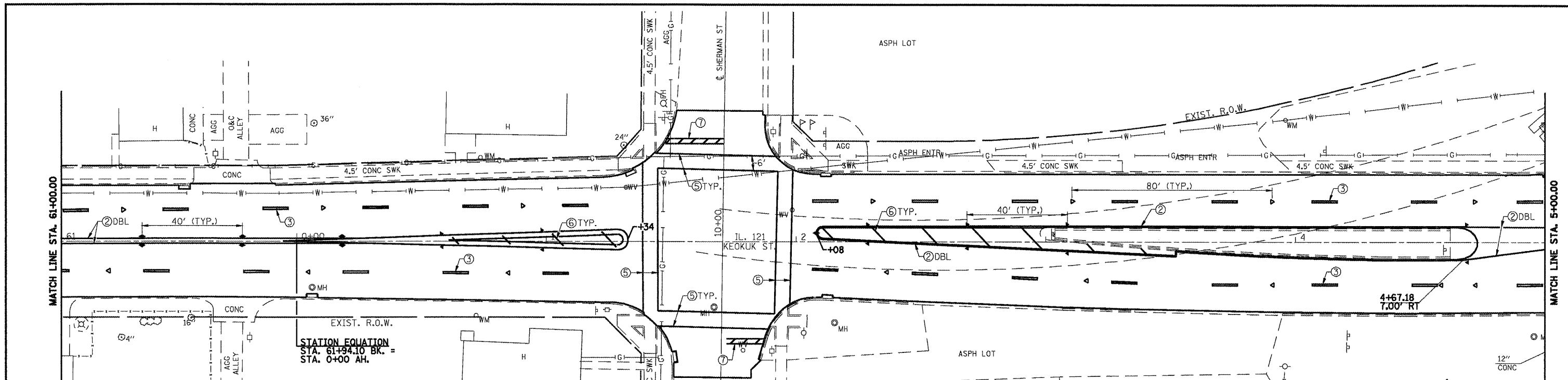
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

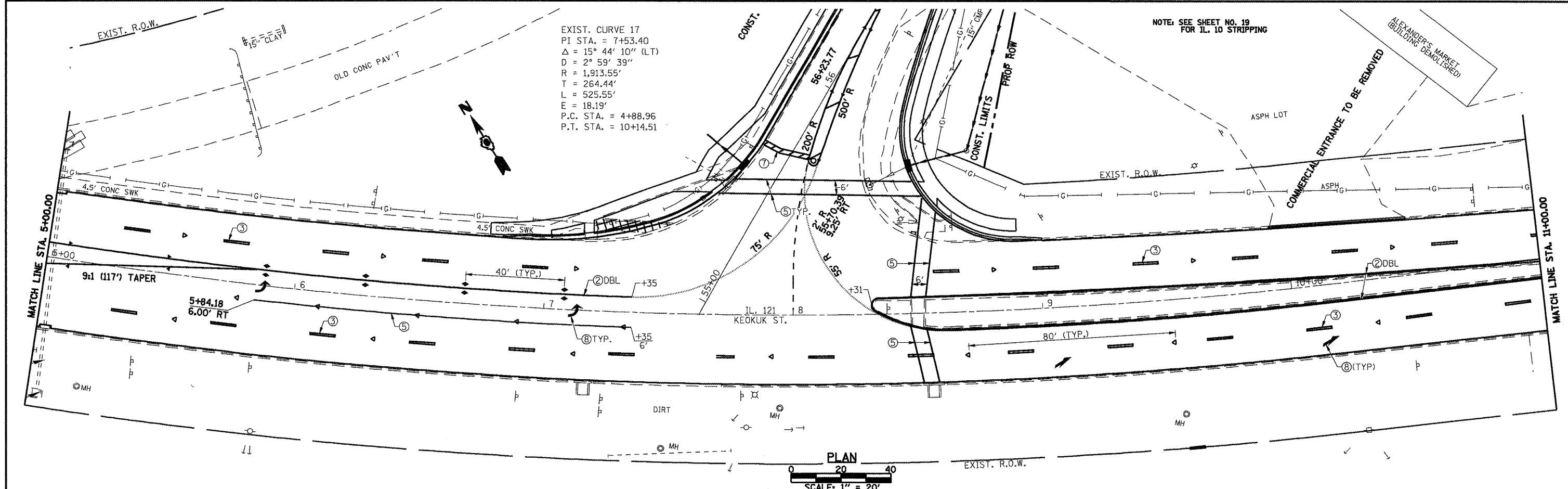
<b>STRIPING AND PAVEMENT MARKER PLAN</b>		
SCALE: 1" = 20'	SHEET NO. 22 OF 32 SHEETS	STA. 55+00.00 TO STA. 61+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(24Z)RS-4, N 116RS-5	LOGAN	32	22
CONTRACT NO. 72998				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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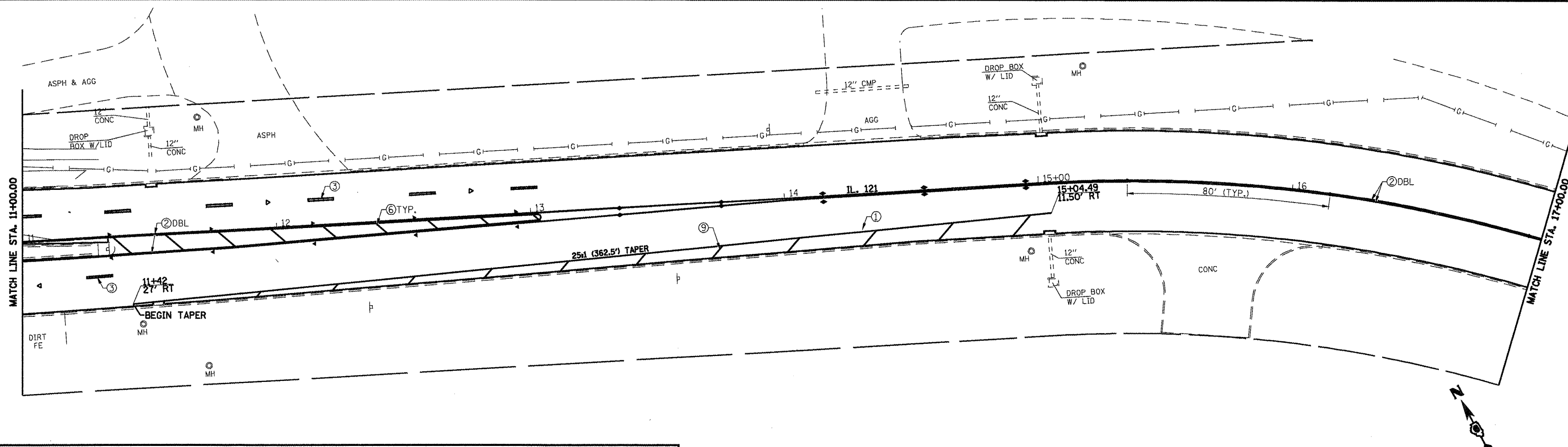


- PREFORMED PLASTIC PAVEMENT MARKING LEGEND**
- ① THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID WHITE)
  - ② THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID YELLOW)
  - ③ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, WHITE)
  - ④ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, YELLOW)
  - ⑤ THERMOPLASTIC PAVEMENT MARKING, - LINE 6" (SOLID WHITE)
  - ⑥ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID YELLOW)
  - ⑦ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 24" (SOLID WHITE)
  - ⑧ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LETTERS AND SYMBOLS (WHITE)
  - ⑨ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID WHITE)
  - ⑩ PREFORMED PLASTIC PAVEMENT MARKING TYPE B INLAID LINE - 6" (2' DASH 6' SKIP) (WHITE)
- RAISED REFLECTIVE PAVEMENT MARKER LEGEND**
- YELLOW STRIPE
  - WHITE STRIPE
  - ◀ ONE-WAY AMBER MARKER
  - ◀ ONE-WAY CRYSTAL/OPAQUE MARKER
  - ◀ TWO-WAY AMBER MARKER

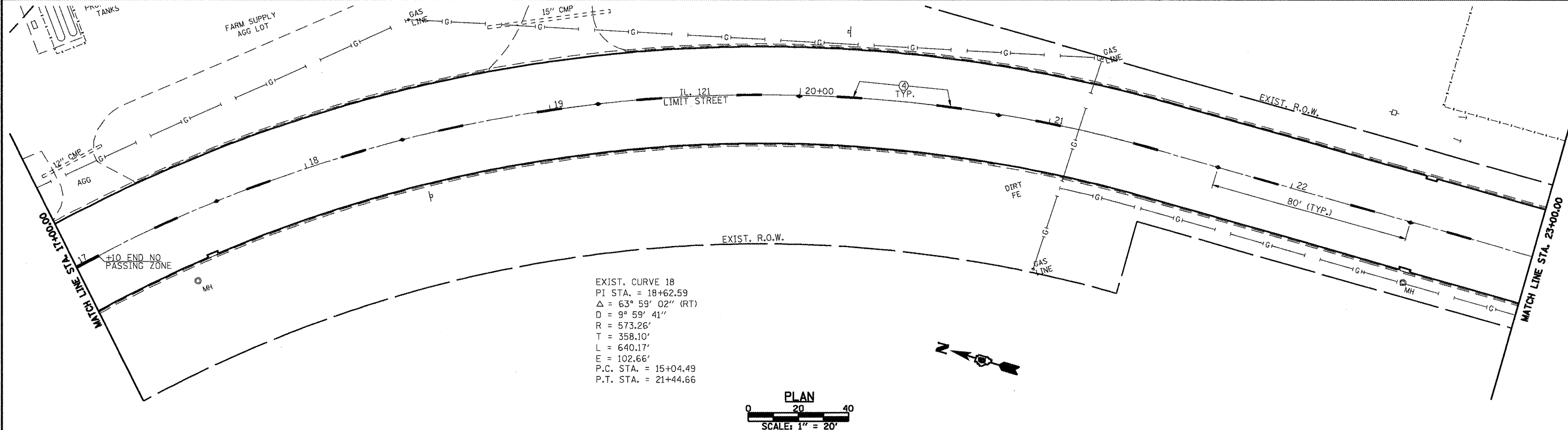
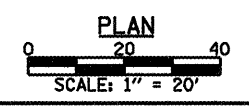


FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>STRIPING AND PAVEMENT MARKER PLAN</b> SCALE: 1" = 20' SHEET NO. 23 OF 32 SHEETS STA. 61+00.00 TO STA. 11+00.00		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED -				320	(242)RS-4, N 116RS-5	LOGAN	32	23
	PLOT DATE = Mar-18-2010 02:17:17PM	CHECKED -	REVISED -		CONTRACT NO. 72998		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -								

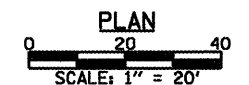
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PREFORMED PLASTIC PAVEMENT MARKING LEGEND		RAISED REFLECTIVE PAVEMENT MARKER LEGEND
① THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID WHITE)	⑥ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID YELLOW)	— YELLOW STRIPE
② THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID YELLOW)	⑦ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 24" (SOLID WHITE)	— WHITE STRIPE
③ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, WHITE)	⑧ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LETTERS AND SYMBOLS (WHITE)	◀ ONE-WAY AMBER MARKER
④ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, YELLOW)	⑨ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID WHITE)	◀ ONE-WAY CRYSTAL/OPAQUE MARKER
⑤ THERMOPLASTIC PAVEMENT MARKING, - LINE 6" (SOLID WHITE)	⑩ PREFORMED PLASTIC PAVEMENT MARKING TYPE B INLAID LINE - 6" (2' DASH 6' SKIP) (WHITE)	◀ TWO-WAY AMBER MARKER



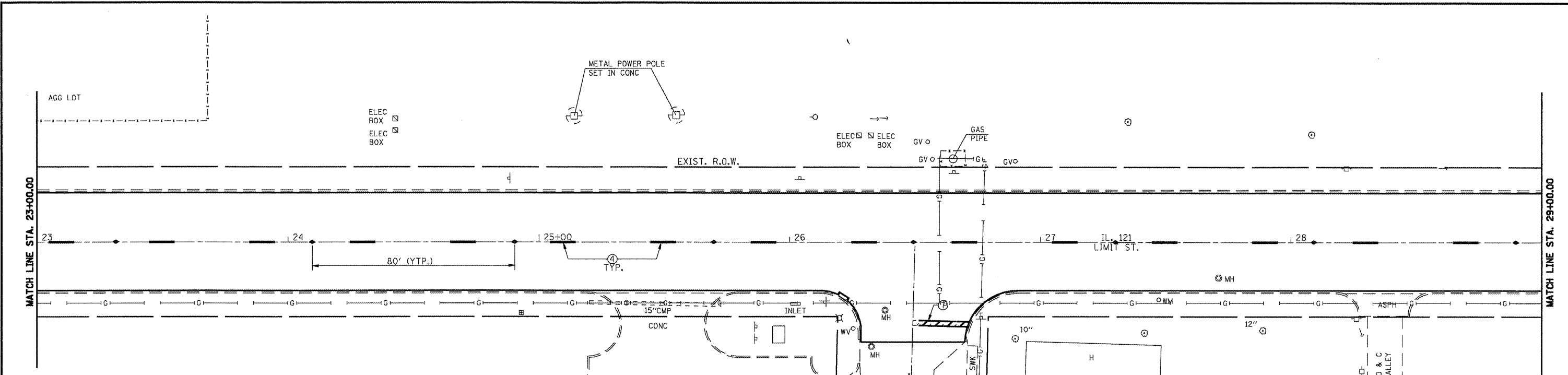
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 PI STA. = 18+62.59  
 $\Delta = 63^\circ 59' 02''$  (RT)  
 $D = 9^\circ 59' 41''$   
 $R = 573.26'$   
 $T = 358.10'$   
 $L = 640.17'$   
 $E = 102.66'$   
 P.C. STA. = 15+04.49  
 P.T. STA. = 21+44.66



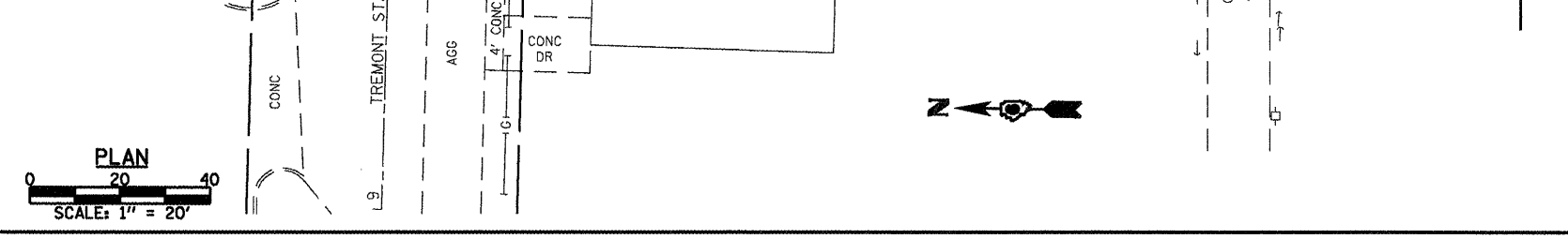
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>STRIPING AND PAVEMENT MARKER PLAN</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 40,0000' / IN.	DRAWN -	REVISED -	320				(242)RS-4, Nj 116RS-5	LOGAN	32	24	
PLOT DATE = Mar-18-2018 02:17:21PM	CHECKED -	REVISED -	SCALE: 1" = 20'		SHEET NO. 24 OF 32 SHEETS		STA. 11+00.00 TO STA. 23+00.00		CONTRACT NO. 72998		
	DATE -	REVISED -					FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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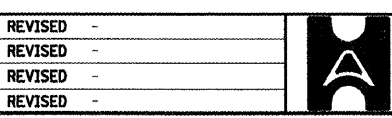
- | PREFORMED PLASTIC PAVEMENT MARKING LEGEND  |  | RAISED REFLECTIVE PAVEMENT MARKER LEGEND |
|--|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID WHITE)                                  | ⑥ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID YELLOW)                            | — YELLOW STRIPE                          |
| ② THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID YELLOW)                                 | ⑦ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 24" (SOLID WHITE)           | — WHITE STRIPE                           |
| ③ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, WHITE)  | ⑧ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LETTERS AND SYMBOLS (WHITE)      | ◀ ONE-WAY AMBER MARKER                   |
| ④ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, YELLOW) | ⑨ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID WHITE)                             | ◀ ONE-WAY CRYSTAL/OPAQUE MARKER          |
| ⑤ THERMOPLASTIC PAVEMENT MARKING, - LINE 6" (SOLID WHITE)                                  | ⑩ PREFORMED PLASTIC PAVEMENT MARKING TYPE B INLAID LINE - 6" (2' DASH 6' SKIP) (WHITE) | ◀ TWO-WAY AMBER MARKER                   |



FILE NAME =  
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 PLOT SCALE = 48.0000' / IN.  
 PLOT DATE = Mar-16-2018 02:17:23PM

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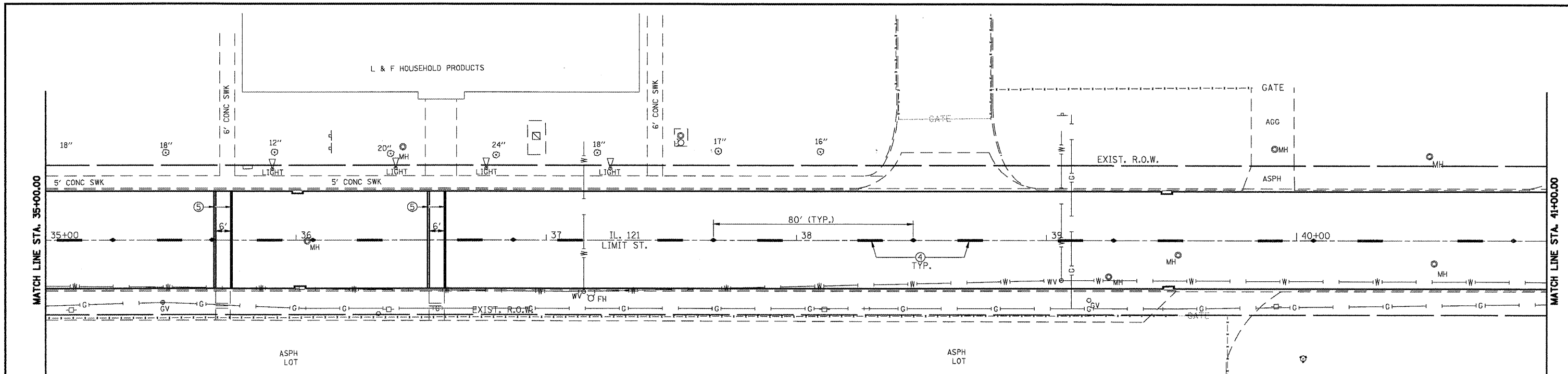


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 No. 184-001907

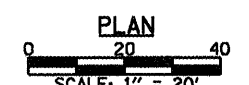
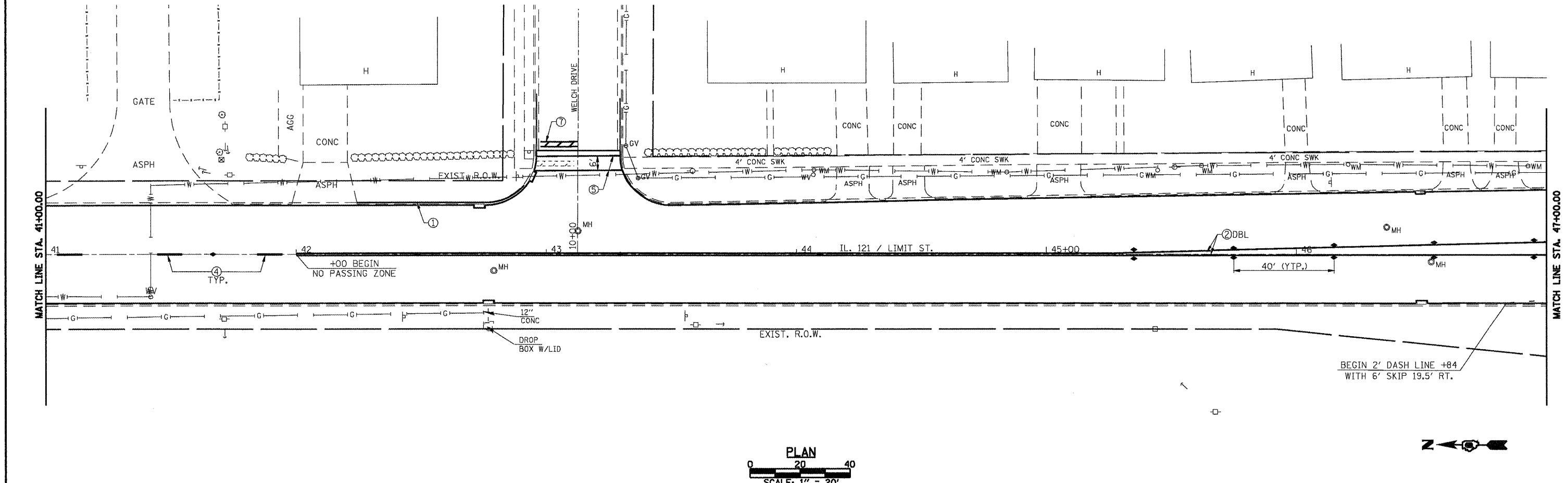
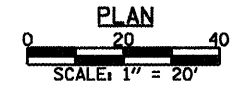
**STRIPING AND PAVEMENT MARKER PLAN**  
 SCALE: 1" = 20' SHEET NO. 25 OF 32 SHEETS STA. 23+00.00 TO STA. 35+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(24Z)RS-4, N, 116RS-5	LOGAN	32	25
CONTRACT NO. 72998				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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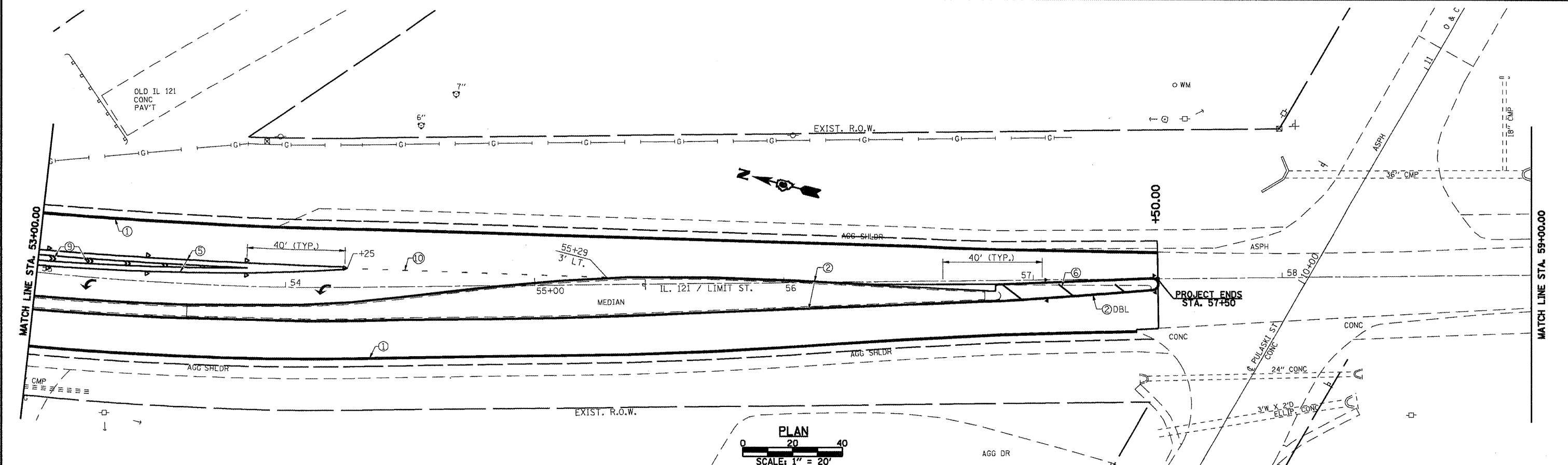
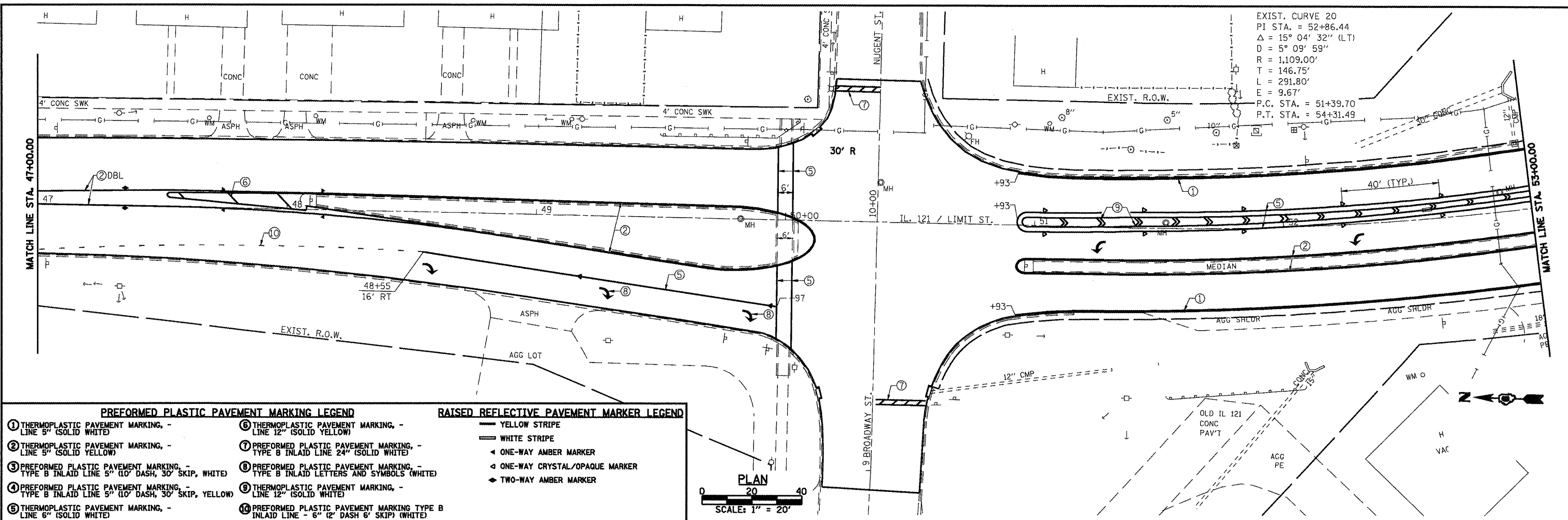


PREFORMED PLASTIC PAVEMENT MARKING LEGEND		RAISED REFLECTIVE PAVEMENT MARKER LEGEND
① THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID WHITE)	⑥ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID YELLOW)	— YELLOW STRIPE
② THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID YELLOW)	⑦ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 24" (SOLID WHITE)	— WHITE STRIPE
③ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, WHITE)	⑧ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LETTERS AND SYMBOLS (WHITE)	◀ ONE-WAY AMBER MARKER
④ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, YELLOW)	⑨ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID WHITE)	◀ ONE-WAY CRYSTAL/OPAQUE MARKER
⑤ THERMOPLASTIC PAVEMENT MARKING, - LINE 6" (SOLID WHITE)	⑩ PREFORMED PLASTIC PAVEMENT MARKING TYPE B INLAID LINE - 6" (2' DASH 6' SKIP) (WHITE)	◀ TWO-WAY AMBER MARKER



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62708 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>STRIPING AND PAVEMENT MARKER PLAN</b> SCALE: 1" = 20' SHEET NO. 26 OF 32 SHEETS STA. 35+00.00 TO STA. 47+00.00		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 48.0000' / IN.	DRAWN -	REVISED -				32D	(24Z)RS-4, N; 116RS-5	LOGAN	32	26
	PLOT DATE = Mar-16-2018 02:17:27PM	CHECKED -	REVISED -		CONTRACT NO. 72998		ILLINOIS FED. AID PROJECT				
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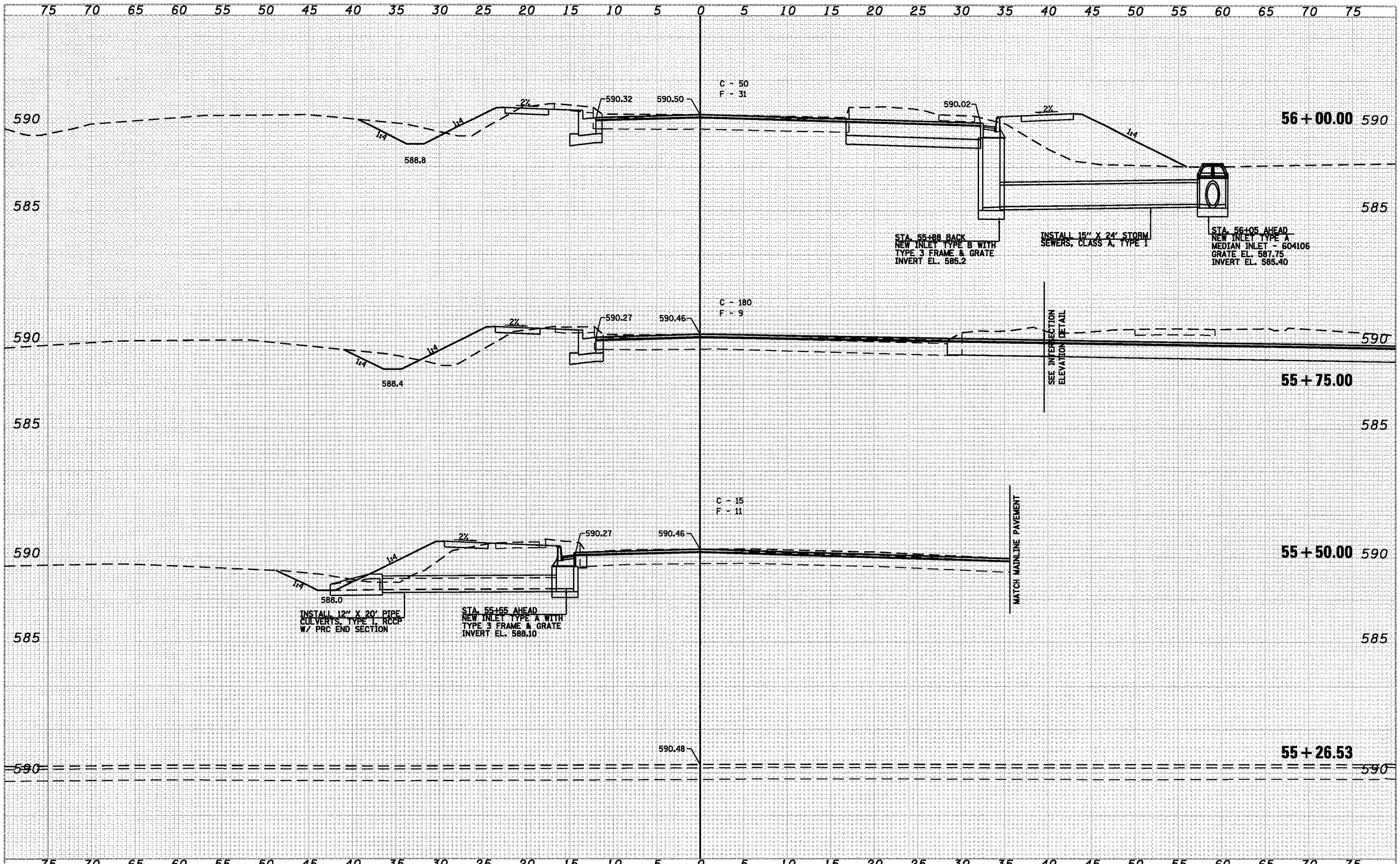



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>STRIPING AND PAVEMENT MARKER PLAN</b> SCALE: 1" = 20' SHEET NO. 27 OF 32 SHEETS STA. 47+00.00 TO STA. 59+00.00	F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 48.0000' / IN.	CHECKED -	REVISED -	320			(24Z)RS-4, N, 11GRS-5	LOGAN	32	27	
PLOT DATE = Nov-18-2018 02:17:30PM	DATE -	REVISED -	CONTRACT NO. 72998							
			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

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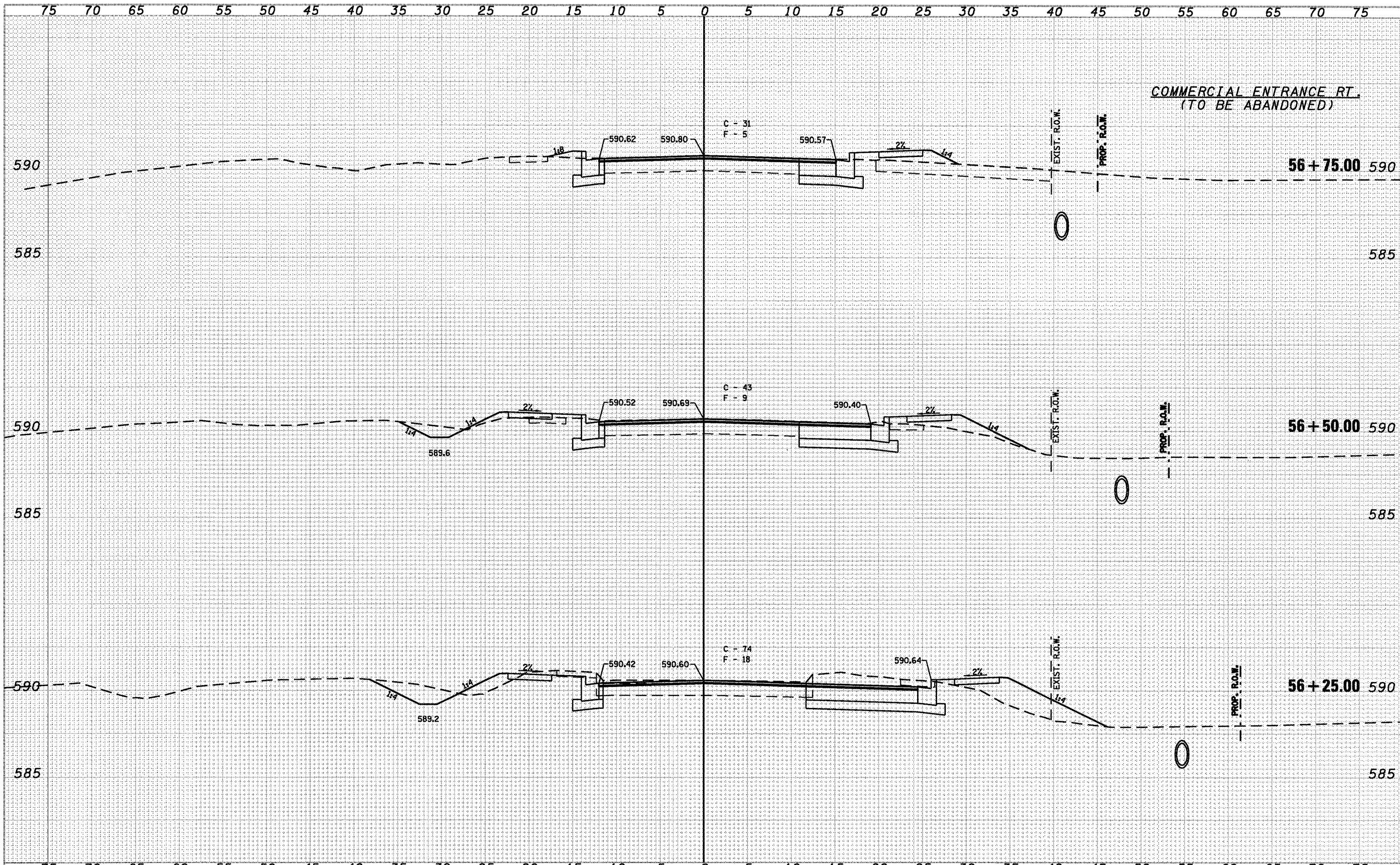


FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>CROSS SECTIONS</b>		RTE. 10 SECTION (24ZIRS-4, N, 116RS-5) COUNTY LOGAN SHEETS 32 SHEET NO. 28 CONTRACT NO. 72998
		DRAWN -	REVISED -		SCALE: VARIES	SHEET NO. 28 OF 32 SHEETS	STA. 55+26.53 TO STA. 56+00.00
		CHECKED -	REVISED -				
		DATE -	REVISED -				
PLOT SCALE = 1/8" = 1' / IN. PLOT DATE = Mar-18-2018 3:21:35PM						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

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 No. 184-001907

**CROSS SECTIONS**  
 SCALE: VARIES SHEET NO. 29 OF 32 SHEETS STA. 56+25.00 TO STA. 56+75.00

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	(242)RS-4, Nj 116RS-5	LOGAN	32	29
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72998	

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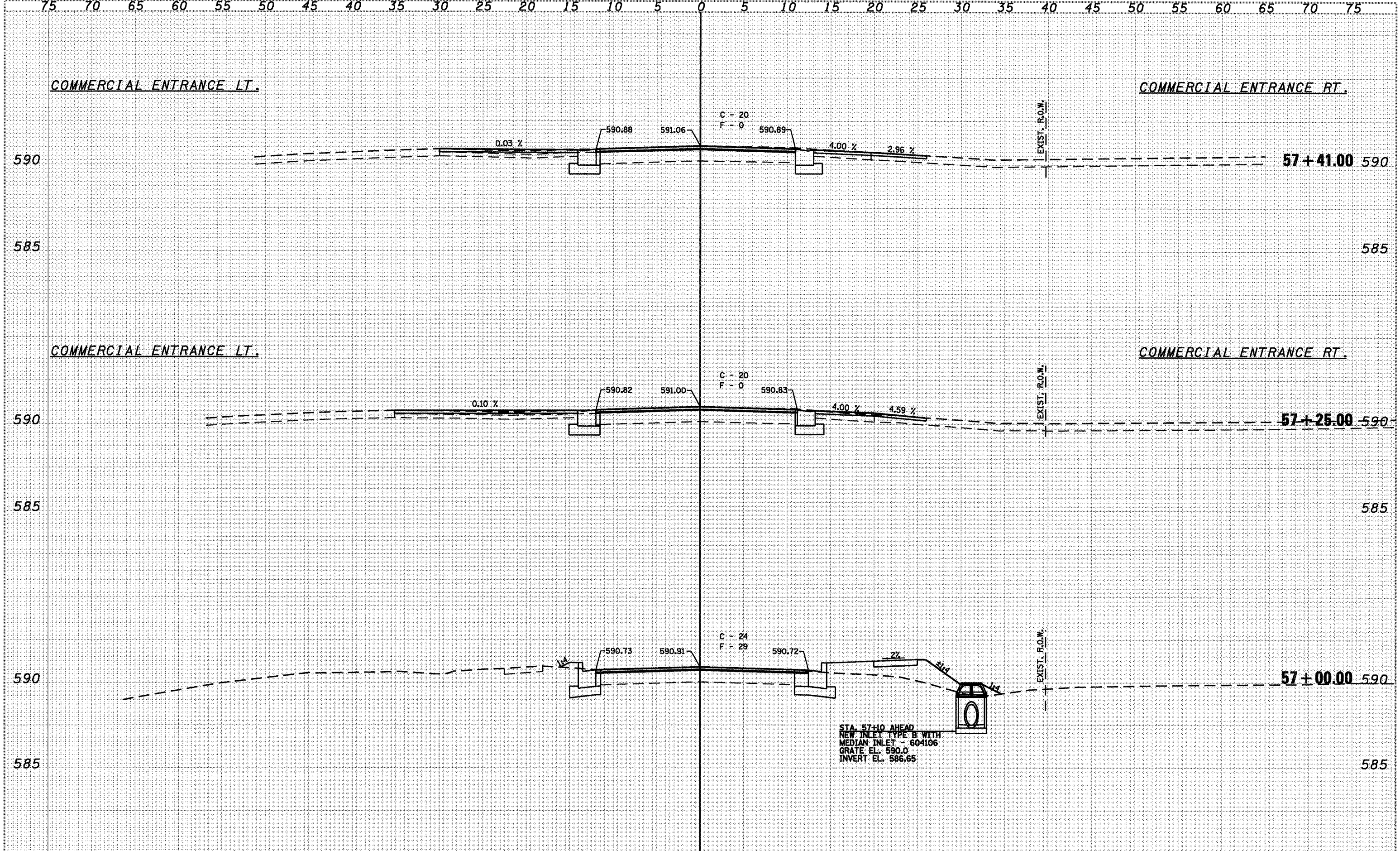
**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

CROSS SECTIONS

SCALE VARIES SHEET NO. 32 OF 30 SHEETS STA. 57+00.00 TO STA. 57+41.00

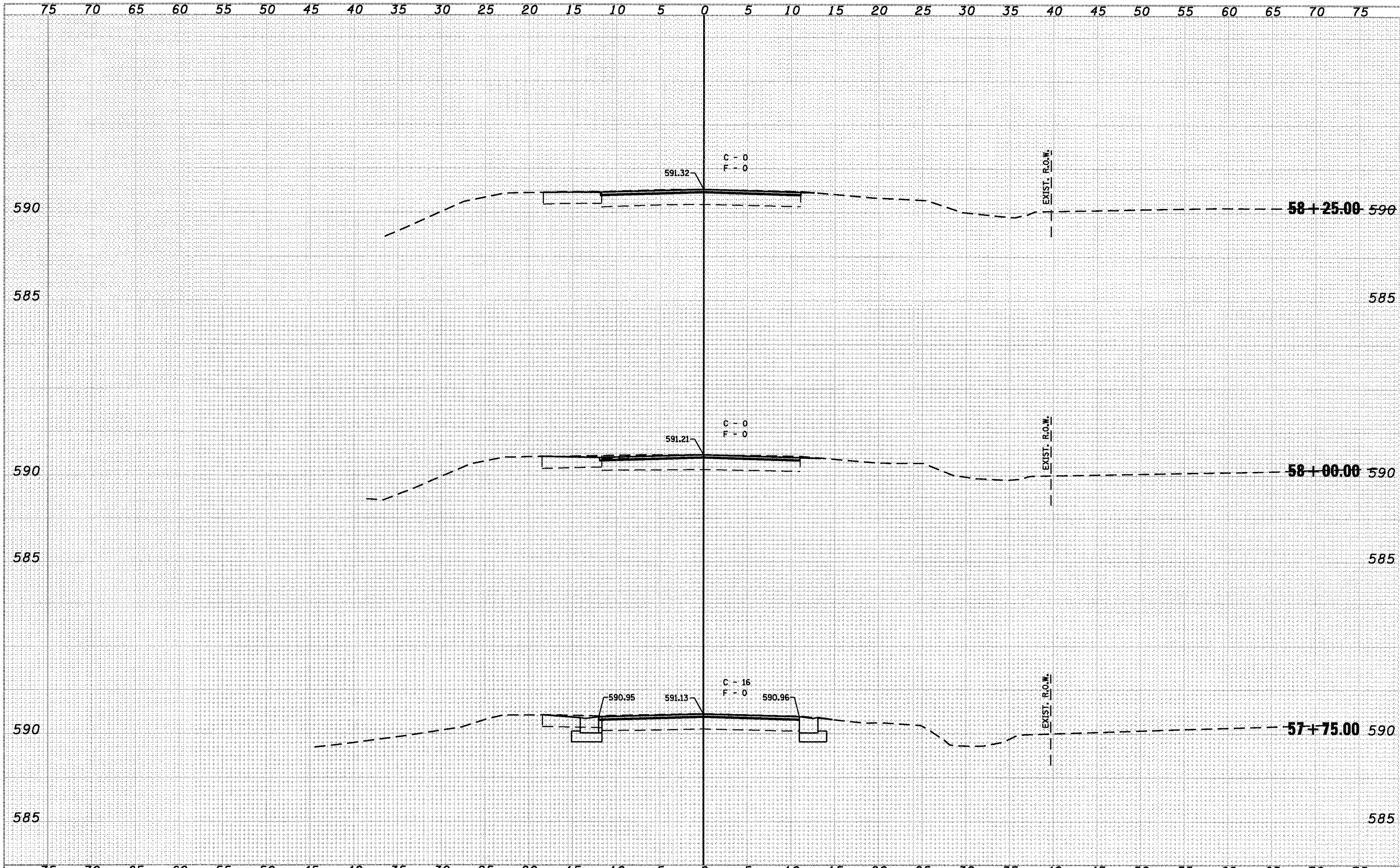
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	(24Z)RS-4, N1 11GRS-5	LOGAN	32	30

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT  
CONTRACT NO. 72998



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TEMPLATE	
AREAS	
NOTE BOOK	
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ORIGINAL SURVEY	DATE
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TEMPLATE	
AREAS	
NOTE BOOK	
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DATE -	REVISED -



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 Civil and Structural Engineers Springfield, IL  
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 No. 184-001907

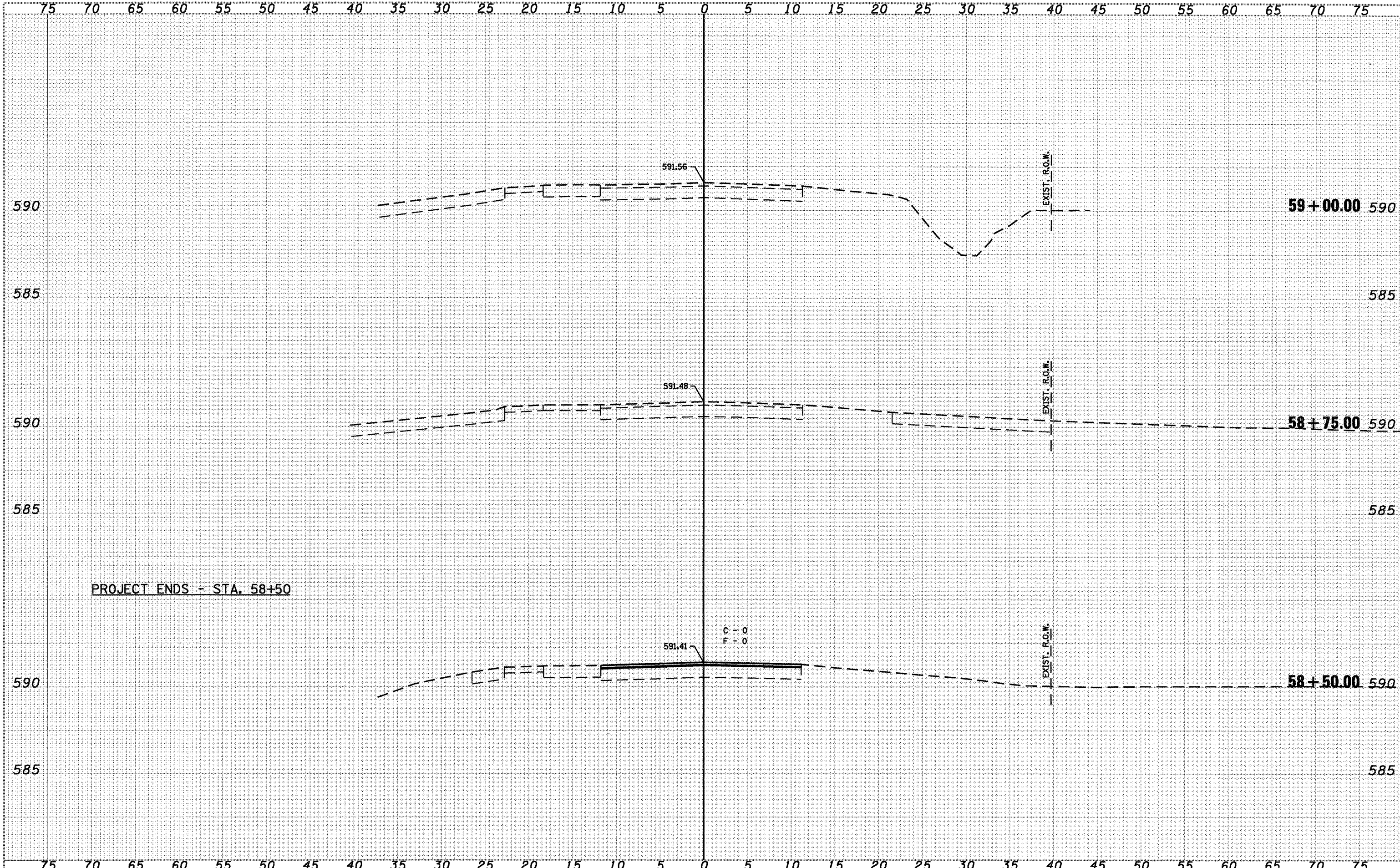
**CROSS SECTIONS**  
 SCALE: VARIES SHEET NO. 31 OF 32 SHEETS STA. 57+75.00 TO STA. 58+25.00


IL RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	(24Z)RS-4, N 116RS-5	LOGAN	32	31
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 72998		

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FILE NAME	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>CROSS SECTIONS</b>		ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 10,000' / IN.	DRAWN -	REVISED -		SCALE VARIES	SHEET NO. 32 OF 32 SHEETS	10	(24ZRS-4, N, 116RS-5)	LOGAN	32	32
	PLOT DATE = Mar-18-2010 02:17:52PM	CHECKED -	REVISED -		STA. 58+50.00	TO STA. 59+00.00	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -		CONTRACT NO. 72998						

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