

09-19-14 LETTING ITEM 061

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PLANS FOR PROPOSED LOCAL AGENCY PROJECT

FAS ROUTE 0849 {BALDWIN RD. (C.H. 28),
RISDON SCHOOL RD. & RANDOLPH COUNTY LINE RD.
SECTION 10-00030-05-SP

PROJECT NO. HSIP-0849(114)
JOB NO. C-98-347-12

LENZBURG ROAD DISTRICT
ST. CLAIR COUNTY, ILLINOIS

HIGHWAY SAFETY IMPROVEMENT PROGRAM

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	1
STA. 7+75.00 TO STA. 81+35.00		FEDERAL AID PROJECT CONTRACT 97514		

INDEX OF SHEETS

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- 15.-19. RIGHT OF WAY PLAN
- 20.-21. INTERSECTION GEOMETRIC DETAILS
- 22.-24. PAVEMENT MARKING AND SIGNAGE
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- 26.-27. CULVERT DETAILS
28. TRAFFIC CONTROL PLAN & STAGING
29. TRAFFIC CONTROL DETAILS
- 30.-32. EROSION CONTROL PLAN
- 33.-46. CROSS SECTIONS
47. BOX CULVERT CROSS SECTIONS

APPLICABLE IDOT HIGHWAY STANDARDS

280001-07	642001-02	701901-03	B.L.R. 17-4
482001-02	667101-02	780001-04	B.L.R. 21-9
542301-03	701306-03	781001-03	B.L.R. 22-7
542306-02	701311-03		

DESIGN DESIGNATION

BALDWIN ROAD
RURAL MAJOR COLLECTOR
A.D.T.(2011): 1380
DESIGN SPEED: 55 MPH

RISDON SCHOOL ROAD
RURAL MAJOR COLLECTOR (EAST)/LOCAL ROAD (WEST)
A.D.T.(2011): 345
DESIGN SPEED: 30 MPH

RANDOLPH COUNTY LINE ROAD
LOCAL ROAD
A.D.T.(2011): 185
DESIGN SPEED: 30 MPH

PLAN	1" = 50'	50	0	50	100
PROFILE HORIZ.	1" = 50'	SCALE FEET			
PROFILE VERT.	1" = 5'				
CROSS SECTIONS HORIZ.	1" = 5'				
CROSS SECTIONS VERT.	1" = 5'	5	0	5	10
		SCALE FEET			

HOLD IT ! CALL BEFORE YOU DIG !
Phone J.U.L.I.E.



The owner would like to remind you that underground utility facilities can be damaged by shovel blades or other digging equipment. You can prevent damage or possible personal danger by phoning 800/892-0123 at least 48 hours before you dig. That's the toll-free number for "J.U.L.I.E.", which stands for Joint Utilities Location Information for Excavators.

If there are any pipes, cables, lines or mains in the excavation area, utility personnel will be out to mark the facilities so you can work around them.

Toll Free 800/892-0123

PREPARED BY:

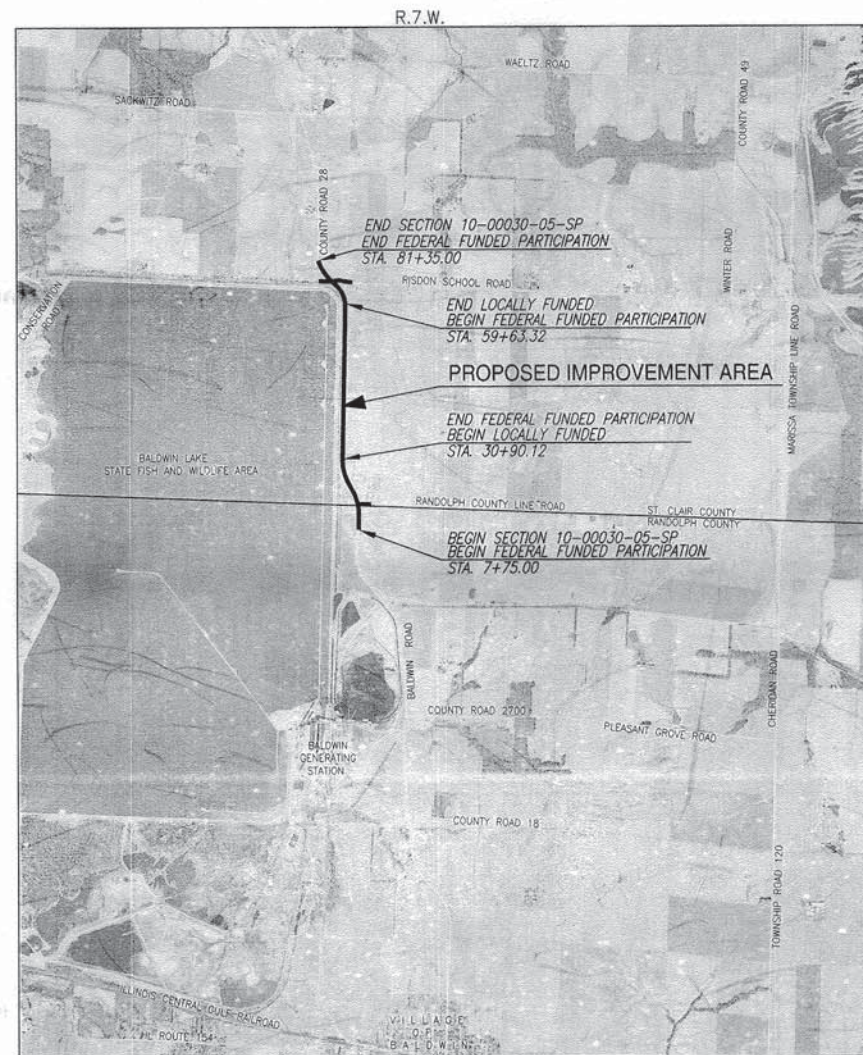
RHUTASEL and ASSOCIATES, INC.

CONSULTING ENGINEERS • LAND SURVEYORS

CORPORATE OFFICE
4 INDUSTRIAL DRIVE
FREEBURG, ILLINOIS 62243
(618) 539-3178

REGIONAL OFFICE
201 SOUTH LOCUST STREET
CENTRALIA, ILLINOIS 62801
(618) 532-1992

ILL. LICENSE NO. 184-000287



LOCATION MAP



BALDWIN ROAD: 7,360.0 FT. = 1.393 MI.
RISDON SCHOOL ROAD: 810.0 FT. = 0.153 MI.
RANDOLPH COUNTY LINE ROAD: 200.0 FT. = 0.038 MI.
TOTAL: 8,370.0 FT. = 1.584 MI.



Anthony A. Schmitt
Date of Signing: 7/3/14
Date of License Expiration: 11/30/15



LOCATION OF PROJECT INDICATED THUS: [Symbol]

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

COUNTY OF RANDOLPH
HIGHWAY DEPARTMENT

APPROVED: 7/6/14 DATE: 7/6/2014
MICHAEL K. RIEBELING, P.E., COUNTY ENGINEER

APPROVED: 7/8/14 DATE: 7/8/14
LENZBURG ROAD DISTRICT ROAD COMMISSIONER

COUNTY OF ST. CLAIR
DEPARTMENT OF ROADS AND BRIDGES

APPROVED: 7/11/14 DATE: 7/11/14
JAMES V. FIELDS, P.E., COUNTY ENGINEER

PASSED: July 17, 2014 DATE: July 17, 2014
DISTRICT ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID
BASED ON LIMITED REVIEW: July 17, 2014 DATE: July 17, 2014
DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER

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SUMMARY OF QUANTITIES

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	2
STA 7+75.00 TO STA 81+35.00			FEDERAL AID PROJECT CONTRACT 97514	

CODE NO.	ITEM	UNIT	FEDERAL PARTICIPATION	NON-FEDERAL PARTICIPATION	TOTAL QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	35	0	35
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	114	0	114
20200100	EARTH EXCAVATION	C.Y.	10,842	5,031	15,873
20300100	CHANNEL EXCAVATION	C.Y.	345	20	365
20700220	POROUS GRANULAR EMBANKMENT	C.Y.	16	13	29
20800150	TRENCH BACKFILL	C.Y.	122	36	158
25000200	SEEDING, CLASS 2	ACRE	6	2	8
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	576	162	738
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	576	162	738
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	576	162	738
25100115	MULCH, METHOD 2	ACRE	6	2	8
25100630	EROSION CONTROL BLANKET	S.Y.	83	0	83
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	640	180	820
28000305	TEMPORARY DITCH CHECKS	FOOT	357	136	493
28000400	PERIMETER EROSION BARRIER	FOOT	350	0	350
28000500	INLET AND PIPE PROTECTION	EACH	8	6	14
28100707	STONE DUMPED RIPRAP, CLASS A4	S.Y.	271	51	322
28200200	FILTER FABRIC	S.Y.	271	51	322
30200650	PROCESSING LIME MODIFIED SOILS 12"	S.Y.	16,739	8,620	25,359
30201500	LIME	TON	322	166	488
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	39	31	70
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	150	0	150
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3,377	1,724	5,101
40600895	CONSTRUCTING TEST STRIP	EACH	1	1	2
40600982	HOT-MIX ASPHALT SURFACE COURSE REMOVAL - BUTT JOINT	S.Y.	92	0	92
40603085	HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70	TON	4,183	2,253	6,436
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	1,917	983	2,900
44000100	PAVEMENT REMOVAL	S.Y.	1,751	0	1,751
48100500	AGGREGATE SHOULDERS, TYPE A 6"	S.Y.	84	3,831	3,915
48102100	AGGREGATE WEDGE SHOULDERS, TYPE B	TON	243	159	402
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	S.Y.	5,733	0	5,733
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	0	1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	2	0	2
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1	1	2
50100600	REMOVAL OF EXISTING STRUCTURES NO. 4	EACH	0	1	1
50100700	REMOVAL OF EXISTING STRUCTURES NO. 5	EACH	1	0	1
50100800	REMOVAL OF EXISTING STRUCTURES NO. 6	EACH	1	0	1
50105220	PIPE CULVERT REMOVAL	FOOT	38	65	103
50200100	STRUCTURE EXCAVATION	C.Y.	350	88	438
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	0	2
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	0	4	4
54010402	PRECAST CONCRETE BOX CULVERTS 4'x2'	FOOT	0	96	96
54010504	PRECAST CONCRETE BOX CULVERTS 5'x4'	FOOT	72	0	72
54200229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	121	0	121
54200247	PIPE CULVERTS, CLASS A, TYPE 1 42"	FOOT	56	0	56
54205479	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND SIZE 24"	FOOT	68	0	68
54205491	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND SIZE 36"	FOOT	48	0	48
54205497	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND SIZE 42"	FOOT	0	48	48
54200220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	102	27	129

CODE NO.	ITEM	UNIT	FEDERAL PARTICIPATION	NON-FEDERAL PARTICIPATION	TOTAL QUANTITY
54200223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	0	31	31
54200229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	0	37	37
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 24"	EACH	4	0	4
54213687	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 42"	EACH	1	0	1
54214719	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND SIZE 24"	EACH	2	0	2
54214941	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ARCH, EQUIVALENT ROUND SIZE 36"	EACH	2	0	2
54214947	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ARCH, EQUIVALENT ROUND SIZE 42"	EACH	0	2	2
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	8,567	0	8,567
66700205	PERMANENT SURVEY MARKERS, TYPE 1	EACH	14	0	14
67100100	MOBILIZATION	L SUM	.65	.35	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1,152	564	1,716
70300220	TEMPORARY PAVEMENT MARKINGS - LINE 4"	FOOT	13,341	7,214	20,555
70300280	TEMPORARY PAVEMENT MARKINGS - LINE 24"	FOOT	36	0	36
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	S.F.	4,475	2,381	6,856
* 78000200	THERMOPLASTIC PAVEMENT MARKINGS - LINE 4"	FOOT	13,341	7,214	20,555
* 78000650	THERMOPLASTIC PAVEMENT MARKINGS - LINE 24"	FOOT	36	0	36
* 78100100	RAISED REFLECTIVE PAVEMENT MARKERS	EACH	52	0	52
X6020182	DRAINAGE STRUCTURE SPECIAL	L SUM	1	0	1
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	.65	.35	1
Δ 20076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL	500	0	500
Δ 20076600	TRAINEES	HOURL	500	0	500

* SPECIALTY ITEMS
Δ 0042

GENERAL NOTES

- Existing utilities shown are located from surface observations or information provided by the respective utilities and must be considered approximate. There may be others, the exact location of which are unknown and not shown. The Contractor will be responsible for notifying the respective utilities before work is begun. Field markings of underground utilities may be obtained by providing a minimum of 48 hours advance notice through the J.U.L.I.E. system by calling 1-800-892-0123 or by direct contact with non-members of J.U.L.I.E.
- All construction shall be according to Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, January 1, 2012, and the latest Supplemental Specifications and Recurring Special Provisions.
- All earth surfaces disturbed during construction operations shall be seeded and mulched upon completion of all grading operations.
- See cross sections for variable earth slopes and special ditch elevations.
- The limits of construction are shown on the plans sheets while proposed R.O.W. and temporary easements are shown on the R.O.W. plans sheets. All surfaces disturbed beyond R.O.W. shall be repaired by the Contractor at his own expense.
- Factors used for quantity calculations are as follows:

<u>Paving</u>	
All Hot-Mix Asphalt	0.056 Tons/Sq. Yd. x In.
Bituminous Material (Prime Coat)	0.074 lbs./sq. Ft.
Aggregate Bases	0.1055 Tons/Sq. Yd. x In.
<u>Lime Modified Soils</u>	
Soil	1.4445 Tons/Cu. Yd.
Lime (4% of Soil)	0.01926 Tons/Sq. Yd. @ 12 In.
- Any facilities or appurtenances which are the property of any public utility located within the limits of construction shall be relocated or adjusted by their respective owners. The Contractor shall notify and cooperate with the owners of any such facility in their removal and rearrangement operations in order that these operations and the construction of this project may progress in a reasonable manner.
- The following utilities may have facilities located within the limits of construction which may require adjustment or removal:

<u>ELECTRIC (SEE PLAN 02)</u>	<u>TELEPHONE (SEE PLAN 02)</u>
Ameren IP 1050 West Blvd. Belleville, Illinois 62222 Attn: Barbara Bolding 1-618-236-4305	AT&T Illinois 203 Goethe St. Collinsville, IL 62234 Attn: Dean Litzenburg 1-618-346-6422
<u>ELECTRIC (SEE PLAN 02)</u>	<u>TELEPHONE (SEE PLAN 02)</u>
Egyptian Electric Coop. Ass. 1005 West Broadway St. Louis, Illinois 62288 Attn: Scott Grams 1-618-965-3434	Egyptian Telephone Coop. 1010 West Broadway St. Louis, Illinois 62288 1-618-774-1000
	<u>TRANSMISSION POWER</u>
	Ameren Services 1901 Chouteau Ave. St. Louis, MO 63103-3003 Attn: Matt Adams 1-314-554-3811
- No seeding will be permitted outside the dates listed in the Standard Specifications unless granted, in writing by the Engineer.
- All elevations refer to U.S.C.S. mean sea level datum.
- For stabilization, all Type III Barricades shall require a minimum of four sandbags per barricade.
- "Road Construction Ahead" signs shall be placed at the beginning and end of the project plus the intersecting side roads and will be included in the Traffic Control pay items. All construction signs shall be fluorescent orange and be a minimum of 48".
- The Contractor shall confine his operations to the area located within the construction limit lines, shown on the plans. Any area disturbed beyond these limits shall be restored to its original condition at the Contractor's expense.
- The following items and approximate quantities are included in order to establish a unit cost for work which may be required to construct this section. The actual quantity of each item shall be determined by the engineer in the field.

Aggregate for Temporary Access:	150 ton
(Used to maintain access for residents located within the project limits and emergency vehicles)	
Temporary Erosion Control Seeding:	820 lbs
(Applied at a rate of 100 lbs/acre in areas not to be disturbed within 14 calendar days as described in the SWPPP or as directed by the Engineer)	
- An estimated 735 tons of Hot-Mix Asphalt material will be removed during this project.
- The Engineer shall be the sole judge concerning curing time for the various hot-mix asphalt lifts.
- The Contractor shall verify all dimensions and conditions in the field prior to construction and ordering of materials.
- The Contractor shall coordinate with residents prior to removal and replacement of driveways and entrances.
- The proposed embankment shall be benched into the existing slopes to the satisfaction of the Engineer.
- If Ash Trees are removed on the project, the contractor shall become familiar with and comply with measures specified by the Illinois Department of Agriculture (IDOA) to prevent the spread of the Emerald Ash Borer. The IDOA information for Ash Tree removal can be found on the IDOA website at www.ogr.state.il.us/eb.

COMMITMENTS

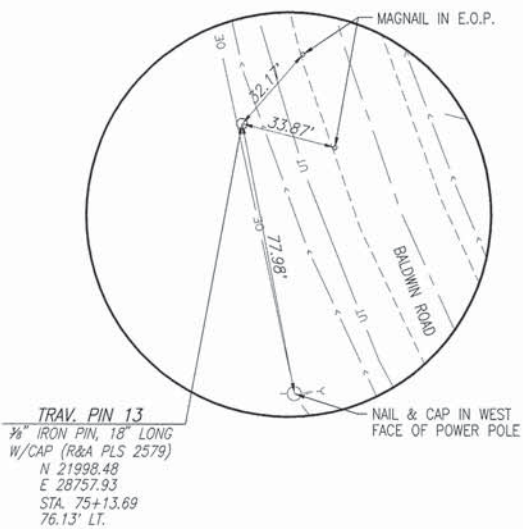
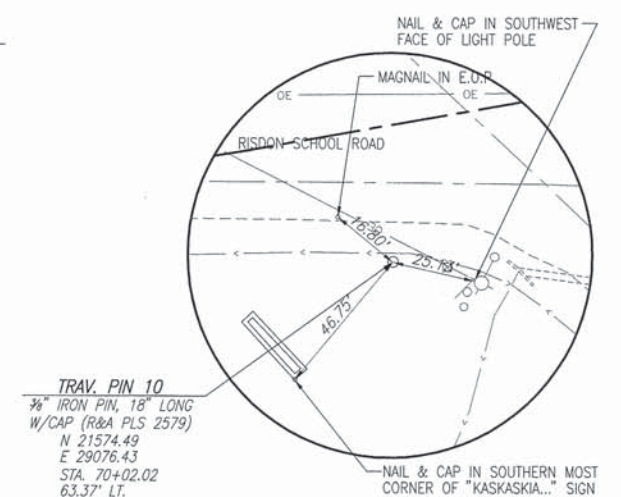
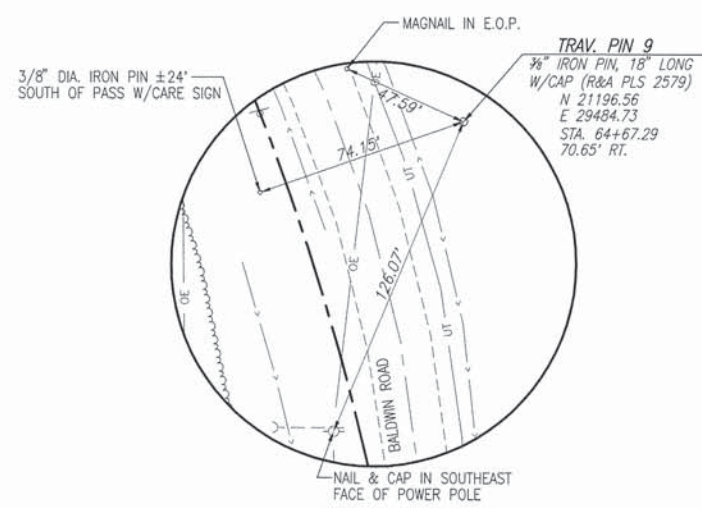
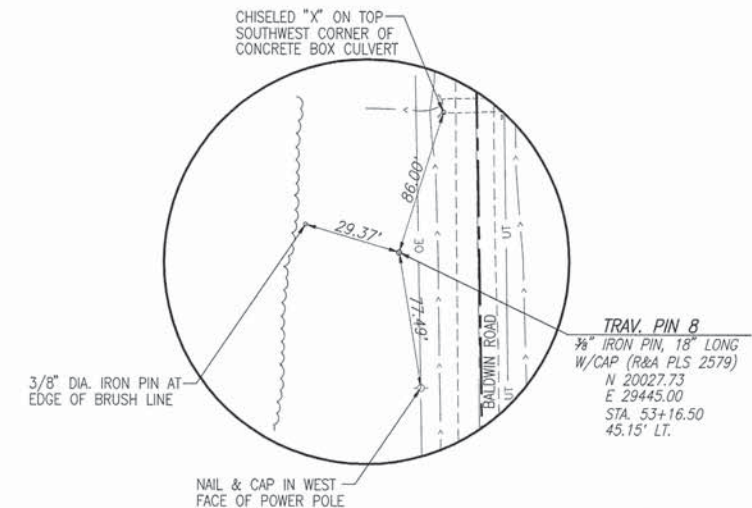
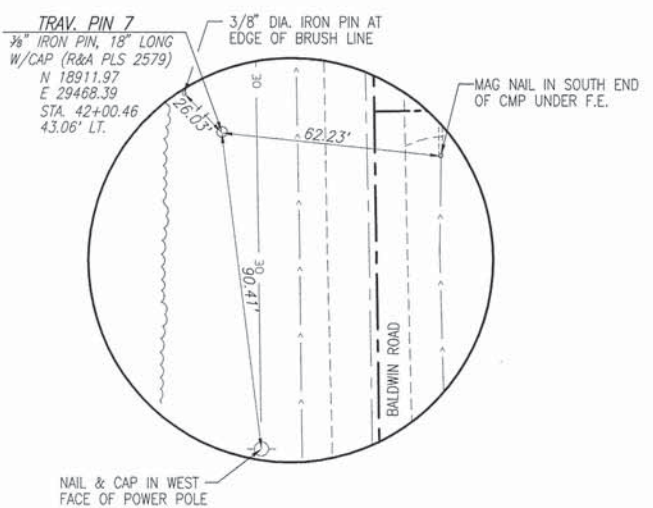
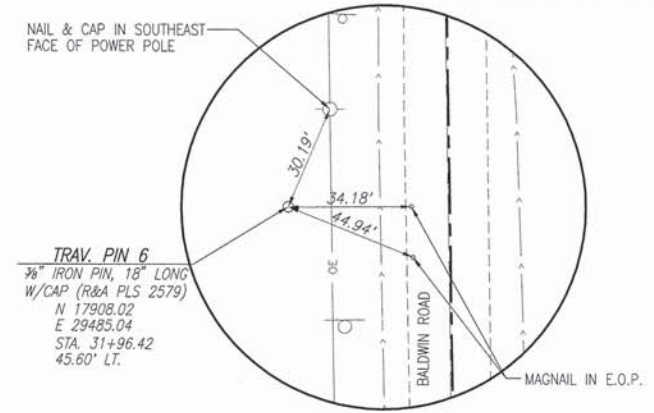
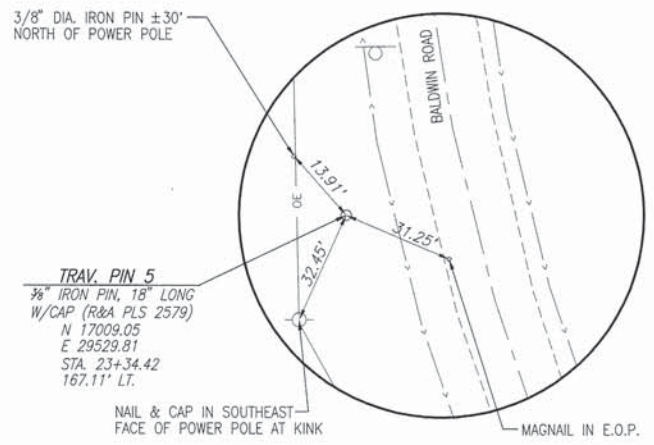
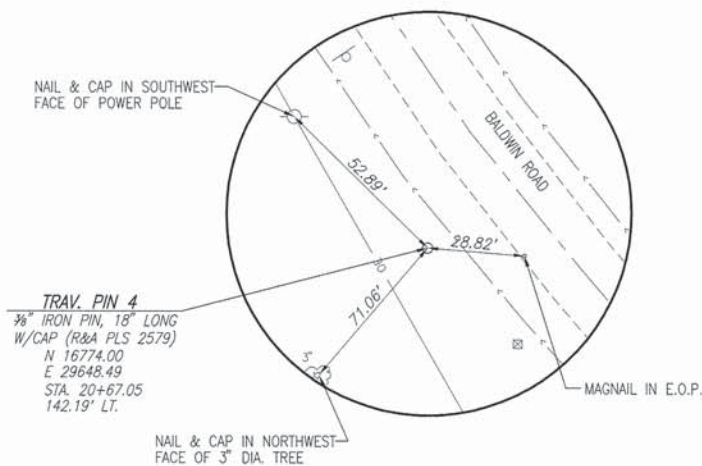
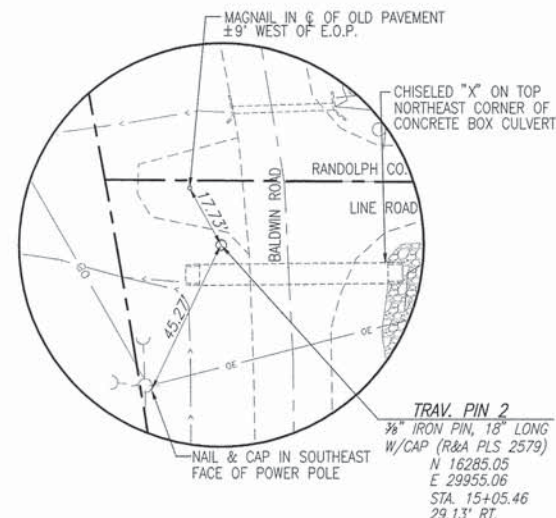
- The Contractor shall coordinate with the Illinois Department of Transportation's District Operations Engineer prior to placement of any signing on State Routes.
- James and David Seibert (OWNERS) may remove, at their expense, the top 6 inches of topsoil from within the limits of the proposed ROW that lies within parcel number 20-27.0-400-001. This removal must be completed within fourteen (14) days following the removal of the 2014 standing crop but no later than January 01, 2015.
- As part of this contract, St. Clair County will install a 40 ft. long, 15" diameter CMP at approximately Sta. 108+50 LT along Riedon School Road. The exact location will be mutually agreed upon by St. Clair County and the OWNERS.
- St. Clair County has agreed to place the flow line elevation of the proposed across road culvert at Sta. 76+69.9, six (6) inches lower than the existing across road culvert flow line elevation at this same location.
- The effective term of the Temporary Construction Easement on parcel number 20-27.0-400-001 shall be from October 30, 2014 thru October 30, 2015, inclusive.
- The grantee shall have and retain all rights to occupy only the temporary construction easement on parcel no. 20-27.0-400-001 which consists of only the 0.035 acres.

It is understood and agreed that the contractor has taken the foregoing into consideration in submitting his bid, and no additional compensation will be allowed for any delays or inconveniences caused by same.

HORIZONTAL CONTROL TIE POINTS

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	3
STA 7+75.00		TO	STA. 81+35.00	
FEDERAL AID PROJECT			CONTRACT 97514	

NOTE: ALL DISTANCES NOT PLUMBED.



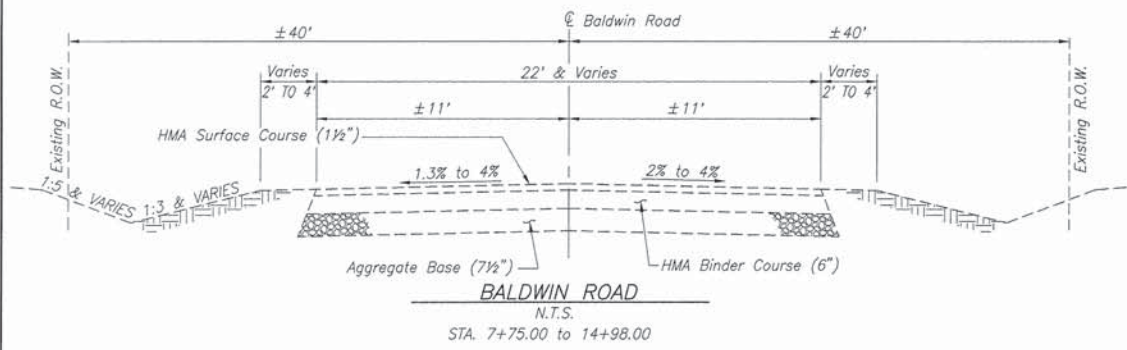
COORDINATE TABLE

STATION / DESCRIPTION	NORTHING	EASTING
BALDWIN ROAD		
± STA. 7+75.00 / BEGIN CONSTRUCTION	15552.45	29976.54
P.C. STA. 9+28.04	15705.49	29976.59
P.I. STA. 15+63.82	16341.26	29976.79
P.T. STA. 21+84.20	16931.60	29740.75
P.C. STA. 25+49.78	17271.05	29605.03
P.I. STA. 27+26.01	17434.69	29539.61
P.T. STA. 28+98.40	17610.89	29536.24
P.C. STA. 61+55.02	20866.91	29474.07
P.I. STA. 64+97.41	21209.24	29467.54
P.T. STA. 68+13.05	21470.89	29246.70
P.C. STA. 72+35.97	21794.09	28973.93
P.I. STA. 75+74.60	22052.87	28755.52
P.T. STA. 78+87.33	22391.39	28746.71
± STA. 81+35.00 / END CONSTRUCTION	22638.98	28740.27
RANDOLPH COUNTY LINE ROAD		
± STA. 300+00.00 / BEGIN CONSTRUCTION	16303.56	29922.13
± STA. 302+00.00 / END CONSTRUCTION	16302.17	30122.12

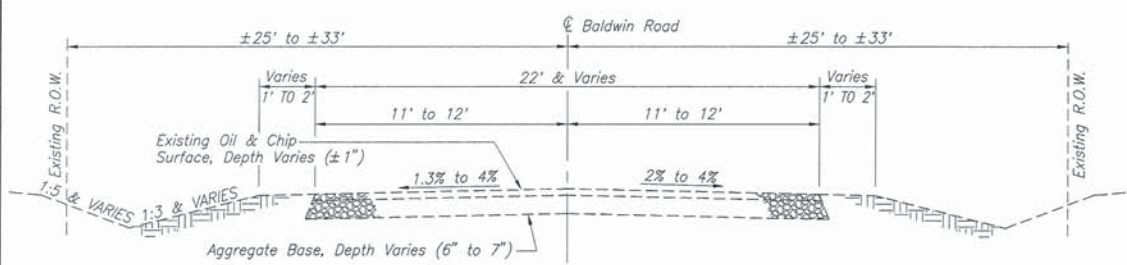
COORDINATE TABLE

STATION / DESCRIPTION	NORTHING	EASTING
RISDON SCHOOL ROAD		
± STA. 101+25.00 / BEGIN CONSTRUCTION	21597.99	28844.85
P.C. STA. 102+13.40	21597.12	28933.23
P.I. STA. 102+64.01	21596.63	28983.83
P.T. STA. 103+14.32	21605.56	29033.64
P.C. STA. 105+15.82	21641.11	29231.99
P.I. STA. 105+77.70	21652.03	29292.89
P.T. STA. 106+37.86	21637.95	29353.15
P.C. STA. 107+74.60	21606.86	29486.30
P.I. STA. 108+25.87	21595.19	29536.23
P.T. STA. 108+76.73	21594.81	29587.50
± STA. 109+35.00 / END CONSTRUCTION	21594.38	29645.80

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	4
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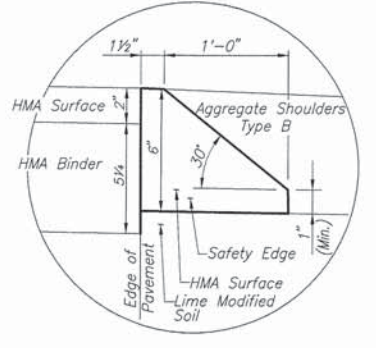
EXISTING ROADWAY TYPICAL SECTIONS
BALDWIN ROAD
N.T.S.
STA. 7+75.00 TO 14+98.00



EXISTING ROADWAY TYPICAL SECTIONS
BALDWIN ROAD
N.T.S.
STA. 14+98.00 TO 81+35.00

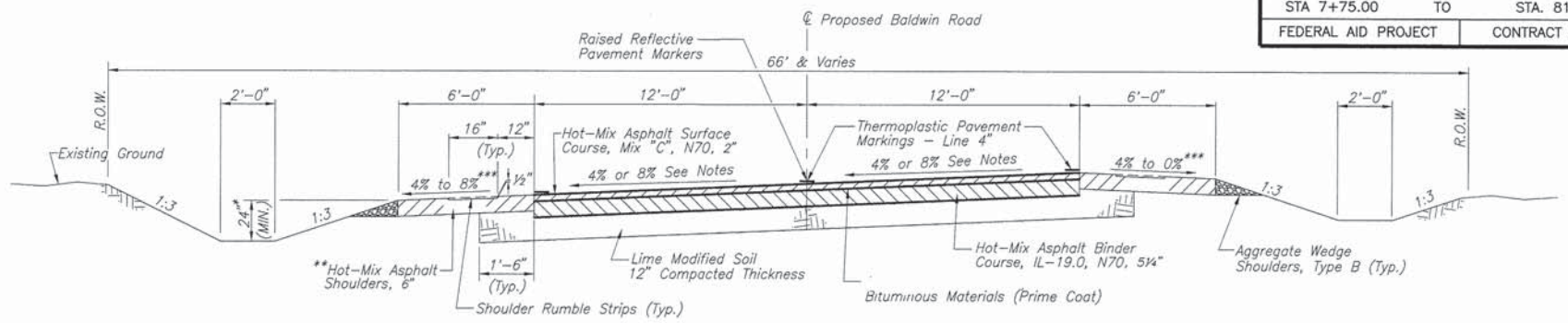
PAVEMENT DESIGN

BALDWIN ROAD	
STRUCTURAL DESIGN TRAFFIC:	YEAR 2021
PV= 1353	SU= 108 MU= 77
ROAD/STREET CLASSIFICATION: RURAL COLLECTOR CLASS ROAD: III	
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:	
P= 50	S= 50 M= 50
TRAFFIC FACTOR: Actual TF= 0.42 Minimum TF= N/A	
PG GRADE: Binder= 64-22 Surface= 64-22	
THICKNESS - 7 1/4"	
SUBGRADE SUPPORT RATING: FAIR	



Note: An Additional Quantity of HMA Surface has been included in the Plans to include HMA required for Safety Edge.

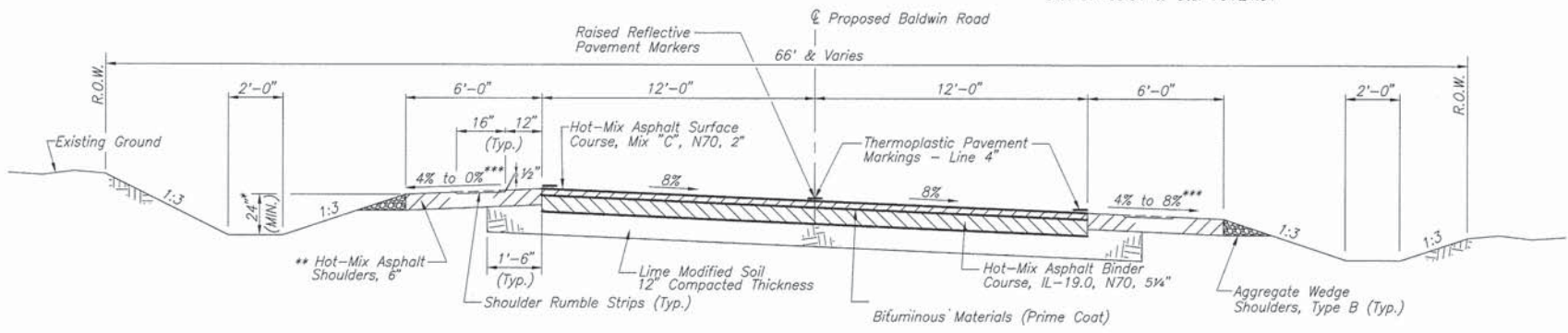
SAFETY EDGE DETAIL
N.T.S.



SUPERELEVATION RIGHT PROPOSED ROADWAY TYPICAL SECTION - BALDWIN ROAD

Shoulder Transition
 Note: Transition from Normal Slope (4%) to 0% Slope Right and 8% Slope Left Sta. 61+16.68 to Sta. 62+18.92
 Note: Maintain 0% Slope Right and 8% Slope Left Sta. 62+18.92 to Sta. 67+68.91
 Note: Transition from 0% Slope Right and 8% Slope Left to Normal Slope (4%) Sta. 67+68.91 to Sta. 68+96.71

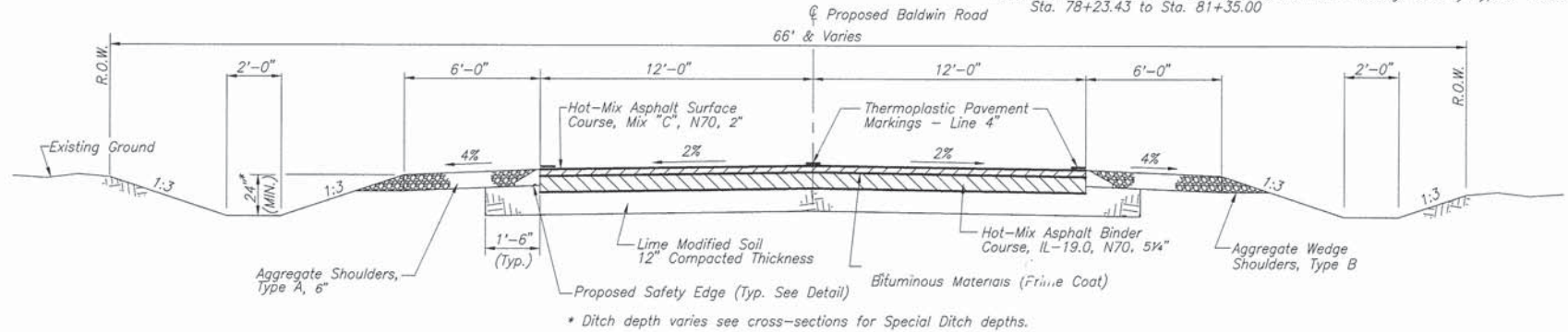
Shoulder Transition
 Note: Transition from Normal Slope (4%) to 0% Slope Right and 8% Slope Left Sta. 59+63.32 to Sta. 70+24.51 (8% Max.)
 Note: Transition from Existing Roadway Typical Section to 4% Max. Superelevation Right: Sta. 7+75.00 to Sta. 9+66.38
 Note: Transition from Proposed Roadway Typical Section to 8% Max. Superelevation Right: Sta. 59+63.32 to Sta. 62+18.92
 Note: Superelevation Right Proposed Typical Section: Sta. 9+66.38 to Sta. 21+45.86 (4% Max.) & Sta. 62+18.92 to Sta. 67+68.91 (8% Max.)
 Note: Transition from Superelevation Right to No Crown: Sta. 21+45.86 to Sta. 22+98.45
 Note: Transition from Superelevation Right to No Crown: Sta. 67+68.91 to Sta. 70+24.51



SUPERELEVATION LEFT PROPOSED ROADWAY TYPICAL SECTION - BALDWIN ROAD

Shoulder Transition
 Note: Transition from Normal Slope (4%) to 0% Slope Left and 8% Slope Right Sta. 24+81.25 to Sta. 26+13.68 & Sta. 71+52.31 to Sta. 72+80.11
 Note: Maintain 0% Slope Left and 8% Slope Right Sta. 26+13.68 to Sta. 28+34.50 & Sta. 72+80.11 to Sta. 78+23.43
 Note: Transition from 0% Slope Left and 8% Slope Right to Normal Slope (4%) Sta. 28+34.50 to Sta. 29+36.76 & Sta. 78+23.43 to Sta. 79+25.67

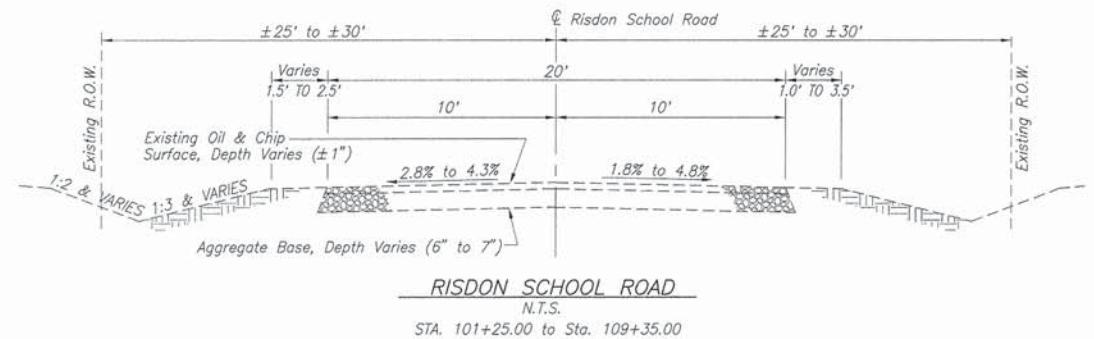
Shoulder Transition
 Note: Transition from No Crown to Superelevation Left: Sta. 22+98.45 to Sta. 26+13.68 (8% Max.) & Sta. 70+24.51 to Sta. 72+80.11 (8% Max.)
 Note: Superelevation Left Proposed Typical Section: Sta. 26+13.68 to Sta. 28+34.50 (8% Max.) & Sta. 72+80.11 to Sta. 78+23.43 (8% Max.)
 Note: Transition from 8% Max. Superelevation Left to Normal Crown: Sta. 28+34.50 to Sta. 30+90.12
 Note: Transition from 8% Max. Superelevation Left Existing Roadway Typical Section: Sta. 78+23.43 to Sta. 81+35.00



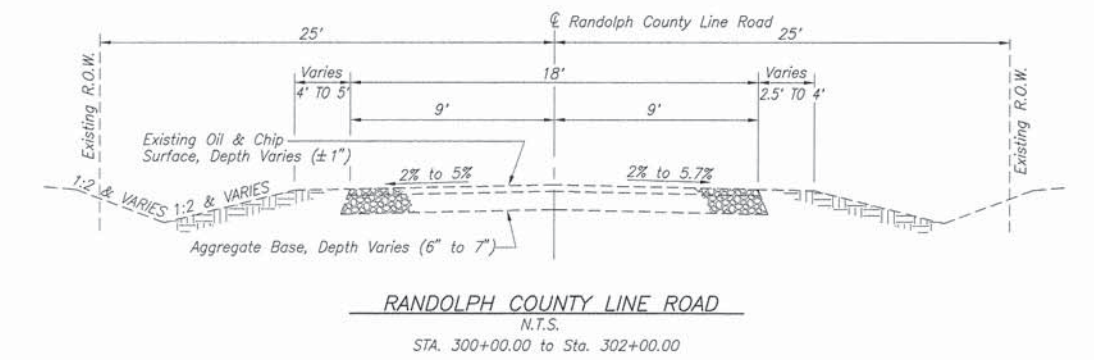
PROPOSED ROADWAY TYPICAL SECTION - BALDWIN ROAD

Sta. 30+90.12 to Sta. 59+63.32
N.T.S.

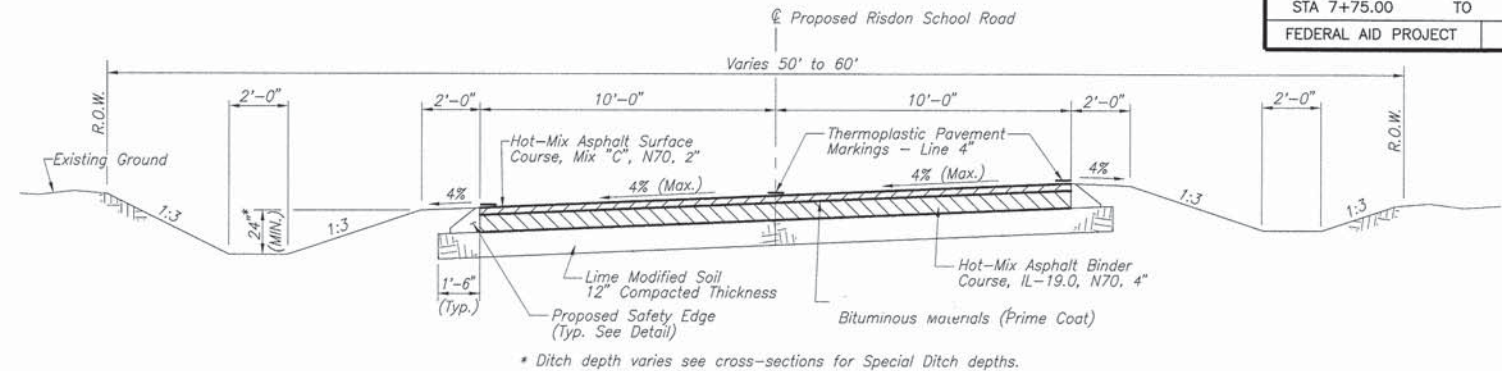
F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	5
STA 7+75.00 TO STA. 81+35.00		FEDERAL AID PROJECT CONTRACT 97514		



EXISTING ROADWAY TYPICAL SECTIONS



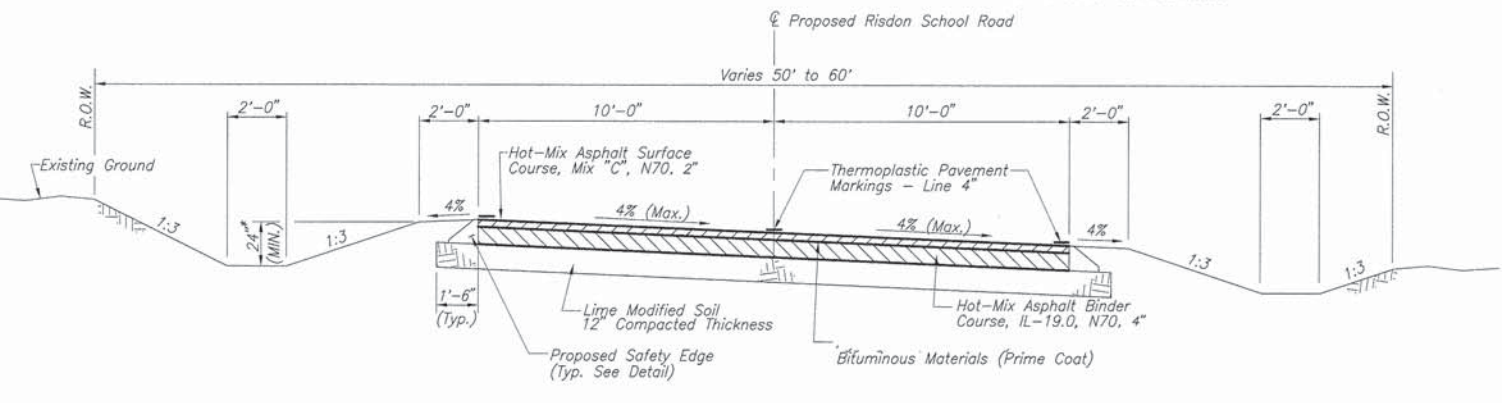
EXISTING ROADWAY TYPICAL SECTIONS



SUPERELEVATION RIGHT PROPOSED ROADWAY TYPICAL SECTION - RISDON SCHOOL ROAD

Sta. 101+25 to Sta. 103+88.18
Sta. 107+06.23 to Sta. 109+35.00
N.T.S.

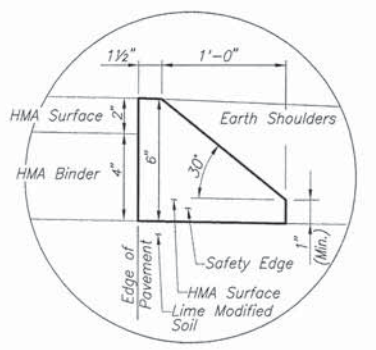
Note: Transition from Existing Roadway Typical Section to Superelevation Right:
Sta. 101+25.00 to Sta. 102+43.80
Note: Superelevation Right Proposed Typical Section:
Sta. 102+43.80 to Sta. 102+91.54 & Sta. 107+97.38 to Sta. 108+46.33
Note: Transition from Superelevation Right Proposed Typical Section to Proposed Baldwin Road:
Sta. 102+91.54 to Sta. 103+88.18
Note: Transition from No Crown to Superelevation Right Proposed Typical Section:
Sta. 107+06.23 to Sta. 107+97.38
Note: Superelevation Right Proposed Typical Section to Existing Roadway Typical Section:
Sta. 108+46.33 to Sta. 109+35.00



SUPERELEVATION LEFT PROPOSED ROADWAY TYPICAL SECTION - RISDON SCHOOL ROAD

Sta. 104+15.89 to Sta. 107+06.23
N.T.S.

Note: Transition from Proposed Baldwin Road to Proposed Superelevation Left:
Sta. 104+15.89 to Sta. 105+38.60
Note: Superelevation Left Proposed Typical Section:
Sta. 105+38.60 to Sta. 106+15.80
Note: Transition from Superelevation Left Proposed Typical Section to No Crown:
Sta. 106+15.80 to Sta. 107+06.23

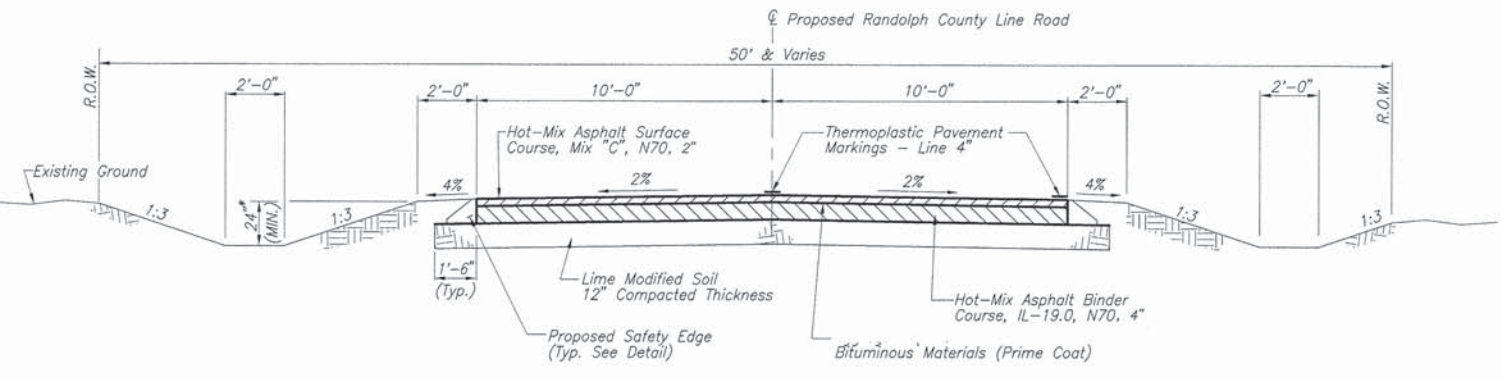


Note: An Additional Quantity of HMA Surface has been included in the Plans to include HMA required for Safety Edge.

SAFETY EDGE DETAIL
N.T.S.

PAVEMENT DESIGN

RANDOLPH COUNTY LINE ROAD & RISDON SCHOOL ROAD
STRUCTURAL DESIGN TRAFFIC: YEAR 2021
PV= 338 SU= 35 MU= 12
ROAD/STREET CLASSIFICATION: RURAL COLLECTOR CLASS ROAD: IV
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P= 50 S= 50 M= 50
TRAFFIC FACTOR: Actual TF= 0.082 Minimum TF= N/A
PG GRADE: Binder= 64-22 Surface= 64-22
THICKNESS - 6"
SUBGRADE SUPPORT RATING: FAIR



PROPOSED ROADWAY TYPICAL SECTION - RANDOLPH COUNTY LINE ROAD

Sta. 300+00.00 to Sta. 302+00.00
N.T.S.

Note: Transition from Proposed Roadway Typical Section to existing roadway:
Sta. 301+50.00 to Sta. 302+00.00

PAVEMENT SCHEDULE

LOCATION	PROCESSING MODIFIED SOIL 12" SQ YD	LIME TON	HMA BINDER CRSE. IL-19.0, N70, ** TON	BIT. MATERIALS (PRIME COAT) POUND	HMA SURFACE CRSE. MIX "C", N70, 2" TON
STA. 7+75.00 TO 30+90.12				1389	792
STA. 7+85.00 TO 30+90.12	6,917	133	1,808		
STA. 300+12.00 TO 302+00.00	728	14	152	153	84
NON-FEDERAL PARTICIPATION STA. 30+90.12 TO STA. 59+63.32					
STA. 30+90.12 TO 59+63.32	8,620	166	2,253	1724	983
FEDERAL PARTICIPATION STA. 59+63.32 TO STA. 81+35.00					
STA. 59+63.32 TO 81+25.00	6,484	125	1,694		
STA. 59+63.32 TO 81+35.00				1303	743
STA. 101+25.00 TO 103+88.00	955	18	193	194	108
STA. 104+18.00 TO 109+25.00	1,655	32	336	338	190
SUBTOTAL FEDERAL PARTICIPATION	16,739	322	4,183	3,377	1,917
SUBTOTAL NON-FEDERAL PARTICIPATION	8,620	166	2,253	1,724	983
TOTAL	25,359	488	6,436	5,101	2,900

* THE QUANTITY OF ASPHALT NECESSARY TO CONSTRUCT THE SAFETY EDGE HAS BEEN INCLUDED IN THE HMA SURFACE COURSE QUANTITIES (0.0218 TONS/FT.).
 ** BALDWIN ROAD SHALL CONSIST OF 5/4" OF HMA BINDER WHILE RISDON SCHOOL ROAD AND RANDOLPH COUNTY LINE ROAD WILL HAVE 4" OF HMA BINDER.

SHOULDER SCHEDULE

LOCATION	HMA SHOULDERS, 6" SQ YD	AGGREGATE SHOULDERS, TYPE A 6" SQ YD	AGGREGATE WEDGE SHOULDERS, TYPE B TON	SHOULDER RUMBLE STRIPS, 16" FOOT
STA. 7+75.00 TO 8+13.00 LT. & RT.		34	2	
STA. 8+13.00 TO 30+90.12 LT.	1,520		63	2,277
STA. 8+13.00 TO 14+78.00 RT.	448		18	665
STA. 15+45.00 TO 30+90.12 RT.	1,038		43	1,545
NON-FEDERAL PARTICIPATION STA. 30+90.12 TO STA. 59+63.32				
STA. 30+90.12 TO 59+63.32 LT. & RT.		3,831	159	
FEDERAL PARTICIPATION STA. 59+63.32 TO STA. 81+35.00				
STA. 59+63.32 TO 69+31.71 RT.	656		27	969
STA. 59+63.32 TO 70+03.73 LT.	687		29	1,041
STA. 70+06.59 TO 80+79.03 RT.	710		30	1,072
STA. 70+80.90 TO 80+79.03 LT.	674		28	998
STA. 80+79.03 TO 81+35.00 LT. & RT.		50	3	
SUBTOTAL FEDERAL PARTICIPATION	5,733	84	243	8,567
SUBTOTAL NON-FEDERAL PARTICIPATION	0	3,831	159	0
TOTAL	5,733	3,915	402	8,567

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	6
STA 7+75.00 TO STA. 81+35.00			FEDERAL AID PROJECT CONTRACT 97514	

TRENCH BACKFILL SCHEDULE

LOCATION	TRENCH BACKFILL	
	CU YD	
FEDERAL PARTICIPATION STA. 7+75.00 TO STA. 30+90.12		
PROPOSED DRAINAGE SCHEDULE		40
STRUCTURE REMOVAL SCHEDULE		54
PIPE CULVERT REMOVAL SCHEDULE		0
NON-FEDERAL PARTICIPATION STA. 30+90.12 TO STA. 59+63.32		
PROPOSED DRAINAGE SCHEDULE		26
STRUCTURE REMOVAL SCHEDULE		0
PIPE CULVERT REMOVAL SCHEDULE		10
FEDERAL PARTICIPATION STA. 59+63.32 TO STA. 81+35.00		
PROPOSED DRAINAGE SCHEDULE		28
STRUCTURE REMOVAL SCHEDULE		0
PIPE CULVERT REMOVAL SCHEDULE		0
SUBTOTAL FEDERAL PARTICIPATION		122
SUBTOTAL NON-FEDERAL PARTICIPATION		36
TOTAL		158

ENTRANCE SCHEDULE

STATION	EXISTING SURFACE	PROPOSED SURFACE	TYPE	"L" FOOT	"W" FOOT	AGG. SURFACE COURSE, TY B (6") TON
302+19.56 RT.	TURF	AGGREGATE	F.E.	13.1	16.0	9.1
302+19.56 LT.	AGGREGATE	AGGREGATE	P.E.	16.0	16.0	1.0
106+50.00 LT.	TURF	AGGREGATE	F.E.	16.2	24.0	15.9
29+08.95 LT.	TURF	AGGREGATE	F.E.	19.7	16.0	13.0
NON-FEDERAL PARTICIPATION STA. 30+90.12 TO STA. 59+63.32						
42+05.42 RT.	TURF	AGGREGATE	F.E.	14.7	16.0	10.0
44+50.00 RT.	TURF	AGGREGATE	F.E.	15.0	18.0	11.3
48+00.00 LT.	TURF	AGGREGATE	F.E.	14.8	16.0	10.1
SUBTOTAL FEDERAL PARTICIPATION						39.0
SUBTOTAL NON-FEDERAL PARTICIPATION						31.4
TOTAL						70.4

* AGGREGATE FOR MAILBOX TURNOUT TO BE INCLUDED HEREIN

SEEDING SCHEDULE

LOCATION	SEEDING CLASS 2 ACRE	MULCH METHOD 2 ACRE	FERTILIZER NUTRIENTS			TEMPORARY EROSION CONTROL SEEDING POUND
			NITROGEN POUND	PHOSPHORUS POUND	POTASSIUM POUND	
FEDERAL PARTICIPATION STA. 7+75.00 TO STA. 30+90.12						
STA. 7+75.00 TO STA. 30+90.12	3.4	3.4	306	306	306	340
NON-FEDERAL PARTICIPATION STA. 30+90.12 TO STA. 59+63.32						
STA. 30+90.12 TO STA. 59+63.32	1.8	1.8	162	162	162	180
FEDERAL PARTICIPATION STA. 59+63.32 TO STA. 81+35.00						
STA. 59+63.32 TO STA. 81+35.00	3.0	3.0	270	270	270	300
SUBTOTAL FEDERAL PARTICIPATION	6.4	6.4	576	576	576	640
SUBTOTAL NON-FEDERAL PARTICIPATION	1.8	1.8	162	162	162	180
TOTAL	8.2	8.2	738	738	738	820

PAVEMENT MARKING SCHEDULE

LOCATION	THERMOPLASTIC PAVEMENT MARKINGS				RAISED REFLECTIVE PAVEMENT MARKERS TWO-WAY AMBER EACH	SHORT TERM PAVEMENT MARKING FOOT
	SOLID WHITE 4" EDGE LINE FOOT	WHITE 24" STOP BAR FOOT	YELLOW SKIP DASH 4" LANE LINE FOOT	SOLID YELLOW 4" LANE LINE FOOT		
FEDERAL PARTICIPATION STA. 7+75.00 TO STA. 30+90.12						
STA. 8+82 TO 29+62 @					27	
STA. 7+75 TO 30+90.12 @			580			212
STA. 7+75 TO 14+55 RT.	682					28
STA. 7+75 TO 30+90.12 LT.	2,277					96
STA. 15+95 TO 30+90.12 RT.	1,493					60
STA. 19+80 TO 26+27 @ / RT.				650		80
STA. 28+75 TO 30+90.12 @ / LT.				215		20
STA. 300+40 LT.		16				
STA. 300+40 TO 302+00 @				320		32
NON-FEDERAL PARTICIPATION STA. 30+90.12 TO STA. 59+63.32						
STA. 30+90.12 TO 59+63.32 LT./RT.	5,746					232
STA. 30+90.12 TO 35+25 @ / LT.				435		40
STA. 30+90.12 TO 59+63.32 @			720			260
STA. 56+50 TO 59+63.32 @ / RT.				313		32
FEDERAL PARTICIPATION STA. 59+63.32 TO STA. 81+35.00						
STA. 59+63.32 TO 69+31 LT.	960					40
STA. 59+63.32 TO 69+07 RT.	951					40
STA. 59+63.32 TO 85+00 @ / LT.				2,050		232
STA. 59+63.32 TO 76+00 @ / RT.				1,637		152
STA. 60+80 TO 79+75 @					25	
STA. 76+00 TO 81+35 @			130			52
STA. 103+46 RT.		10				
STA. 104+58 LT.		10				
STA. 101+25 TO 103+46 @				442		40
STA. 104+58 TO 109+35 @				954		88
SUBTOTAL FEDERAL PARTICIPATION	6,363	36	710	6,268	52	1,152
SUBTOTAL NON-FEDERAL PARTICIPATION	5,746	0	720	748	0	564
TOTAL	12,109	36	1,430	7,016	52	1,716

PROPOSED DRAINAGE SCHEDULE

UPSTREAM @ STATION, OFFSET	DOWNSTREAM @ STATION, OFFSET	UPSTREAM @ ELEVATION	DOWNSTREAM @ ELEVATION	PIPE CULVERTS						PRECAST REIN. CONC. FLARED END SECTIONS			PRECAST CONCRETE BOX CULVERT	BOX CULVERT END SECTIONS	DRAINAGE STRUCTURE SPECIAL (L SUM)	POROUS GRANULAR EMBANKMENT (CU YD)	TRENCH BACKFILL (CU YD)
				CLASS A, TYPE 1		CLASS D, TYPE 1**		EL. EQ. AR. EQ. RD.-SIZE			5'X4'	4'X2'					
FEDERAL PARTICIPATION STA. 7+75.00 TO STA. 30+90.12																	
14+66.38, 40.66' RT.	15+05.07, 33.88' LT.	422.96	422.54													16	
15+55.64, 50.69' RT.	15+25.28, 31.52' LT.	425.31	424.43	75													11
21+23.08, 29.01' RT.	21+49.53, 33.00' LT.	423.97	423.35														14
26+57.59, 27.10' RT.	26+57.53, 31.32' LT.	424.43	423.85	46													8
28+94.06, 25.12' LT.	29+23.95, 25.34' RT.	425.48	425.38														3
302+35.27, 17.04' RT.	302+03.28, 18.01' RT.	429.50	428.68														4
NON-FEDERAL PARTICIPATION STA. 30+90.12 TO STA. 59+63.32																	
35+65.93, 29.20' RT.	35+65.93, 30.80' LT.	421.57	420.65														16
41+89.92, 25.20' RT.	42+20.92, 25.20' RT.	422.34	422.25														3
44+31.50, 25.29' RT.	44+68.50, 25.29' RT.	421.49	421.23														4
47+86.43, 25.35' LT.	48+13.43, 25.48' LT.	419.68	419.60														3
53+96.05, 29.93' RT.	53+96.05, 30.07' LT.	417.37	417.17														
FEDERAL PARTICIPATION STA. 59+63.32 TO STA. 81+35.00																	
69+20.53, 34.53 RT.	69+65.34, 32.05 LT.	416.77	416.53														7
76+62.75, 27.01 RT.	76+75.63, 31.54 LT.	413.18	413.00														15
106+70.00, 15.36 LT.	106+30.37, 49.96 LT.	417.80	417.53														6
SUBTOTAL FEDERAL PARTICIPATION				121	68	48	56	0	102	0	0	4	2	2	1	0	72
SUBTOTAL NON-FEDERAL PARTICIPATION				0	0	0	0	48	27	31	37	0	0	0	0	2	0
TOTAL				121	68	48	56	48	129	31	37	4	2	2	1	2	72

NOTE: ALL STATION OFFSETS ARE GIVEN TO END OF PIPE (OR END OF END SECTION IF APPLICABLE) UNLESS OTHERWISE NOTED
 * CENTER OF DROP STRUCTURE
 **POLYVINYL CHLORIDE AND POLYETHYLENE PIPES SHALL NOT BE USED.

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	FURNISHED EXCAVATION
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
FEDERAL PARTICIPATION STA. 7+75.00 TO STA. 30+90.12						
STA. 7+75.00 TO STA. 30+90.12	5,779	303	4,562	2,670	+1,892	0
STA. 300+12.00 TO STA. 302+00.00	658	0	494	25	+469	0
NON-FEDERAL PARTICIPATION STA. 30+90.12 TO STA. 59+63.32						
STA. 30+90.12 TO STA. 59+63.32	5,031	20	3,788	2,319	+1,469	0
FEDERAL PARTICIPATION STA. 59+63.32 TO STA. 81+35.00						
STA. 59+63.32 TO STA. 81+35.00	3,532	42	2,649	3,644	-995*	0
STA. 101+25.00 TO STA. 109+25.00	873	0	655	818	-163*	0
SUBTOTAL FEDERAL PARTICIPATION	10,842	345	8,360	7,157	+1,203	0
SUBTOTAL NON-FEDERAL PARTICIPATION	5,031	20	3,788	2,319	+1,469	0
TOTAL	15,873	365	12,148	9,476	+2,672	0

*WASTE FROM PREVIOUS STAGES SHALL BE USED TO MAKE UP SHORTAGE

RIP RAP SCHEDULE

LOCATION	LENGTH (FOOT)	WIDTH (FOOT)				HEIGHT (FOOT)	STONE DUMPED RIPRAP CLASS A4 (SQ YD)	FILTER FABRIC (SQ YD)	AGGREGATE BEDDING (TON)
		A	B	C	X				
FEDERAL PARTICIPATION STA. 7+75.00 TO STA. 30+90.12									
STA. 10+24 TO STA. 10+36 35' RT.	11	2	2	2	1.0	8	8	2.9	
STA. 12+21 TO STA. 12+27 43' RT.	21	2	2	2	1.0	14	14	5.0	
STA. 13+43 TO STA. 13+51 50' RT.	33	3	2	3	1.5	31	31	11.2	
STA. 14+31 TO STA. 14+57 42' RT.	27	3	2	3	1.5	24	24	8.6	
STA. 14+57 TO STA. 14+72 42' RT.	16	5	6	5	2.5	28	28	10.1	
STA. 14+95 TO STA. 15+13 35' LT.	15	5	6	5	2.5	20	20	7.2	
STA. 15+19 TO STA. 15+25 50' LT.	40	2	2	2	1.0	27	27	9.6	
STA. 21+14 TO STA. 21+31 31' RT.	17	5.5	3	5.5	1.75	21	21	7.6	
STA. 21+46 TO STA. 21+57 36' LT.	28	4	4	4	1.5	38	38	13.5	
STA. 26+48 TO STA. 26+61 45' LT.	28	2	2	2	1.0	20	20	7.4	
STA. 26+55 TO STA. 26+63 30' RT.	15	2.5	3	2.5	1.5	13	13	4.6	
STA. 35+60 TO STA. 35+70 30' RT.	7	2	6	2	1.0	6	6	2.1	
STA. 35+62 TO STA. 35+70 30' RT.	7	1	6	1	0.5	6	6	2.1	
STA. 300+60 TO STA. 300+74 45' RT.	17	2	2	2	1.0	11	11	4.1	
NON-FEDERAL PARTICIPATION STA. 30+90.12 TO STA. 59+63.32									
STA. 42+40 TO STA. 42+46 31' RT.	10	3	--	3	1.5	7	7	2.2	
STA. 53+81 TO STA. 54+12 33' RT.	7	10	11	10	1.0	24	24	8.1	
STA. 53+86 TO STA. 54+07 33' LT.	7	5	11	5	1.0	20	20	6.6	
FEDERAL PARTICIPATION STA. 59+63.32 TO STA. 81+35.00									
STA. 74+53 TO STA. 74+62 30' RT.	5	3	--	3	1.0	4	4	1.2	
SUBTOTAL FEDERAL PARTICIPATION						271	271		
SUBTOTAL NON-FEDERAL PARTICIPATION						51	51		
TOTAL						322	322		

NOTE: ESTIMATED AGGREGATE BEDDING QUANTITY PROVIDED FOR INFORMATION ONLY. PLEASE REFER TO RIP RAP DETAIL FOR APPLICATION OF DIMENSIONS.

PERMANENT SURVEY MARKERS, TYPE I

LOCATION	QUANTITY EACH
FEDERAL PARTICIPATION STA. 7+75.00 TO STA. 30+90.12	
P.C. STA. 9+28.04	1
P.T. STA. 21+84.20	1
P.C. STA. 25+49.78	1
P.T. STA. 28+98.40	1
NON-FEDERAL PARTICIPATION STA. 30+90.12 TO STA. 59+63.32	
	0
FEDERAL PARTICIPATION STA. 59+63.32 TO STA. 81+35.00	
P.C. STA. 61+55.02	1
P.T. STA. 68+13.05	1
P.C. STA. 72+35.97	1
P.T. STA. 78+87.33	1
P.C. STA. 102+13.40	1
P.T. STA. 103+14.32	1
P.C. STA. 105+15.82	1
P.T. STA. 106+37.86	1
P.C. STA. 107+74.60	1
P.T. STA. 108+76.73	1
SUBTOTAL FEDERAL PARTICIPATION	14
SUBTOTAL NON-FEDERAL PARTICIPATION	0
TOTAL	14

STRUCTURE REMOVAL SCHEDULE

LOCATION	DESCRIPTION	REMOVAL OF EXISTING STRUCTURES	QUANTITY (EACH)	TRENCH BACKFILL (CU YD)				
FEDERAL PARTICIPATION STA. 7+75.00 TO STA. 30+90.12								
STA. 14+94 RT.	5'x4' CONC. BOX (±61')	NO. 1	1	45				
STA. 15+40 RT.	2'x2' CONC. BOX W/ HEADWALLS (±29')	NO. 2	1	4				
STA. 21+88 LT.	4'x4' CONC. BOX W/ HEADWALL & DROP STRUCTURE (±39')	NO. 3	1					
STA. 26+44 C	2'x2' CONC. BOX W/ HEADWALLS (±31')	NO. 2	1	5				
NON-FEDERAL PARTICIPATION STA. 30+90.12 TO STA. 59+63.32								
STA. 35+66 C	6'x2' CONC. BOX W/ HEADWALLS (±32')	NO. 3	1					
STA. 54+00 C	8'x2' CONC. BOX W/ HEADWALLS (±34')	NO. 4	1					
FEDERAL PARTICIPATION STA. 59+63.32 TO STA. 81+35.00								
STA. 69+35 C	2'x1.5' CONC. BOX W/ HEADWALLS (±89')	NO. 6	1					
STA. 76+73 LT.	3'x2' CONC. BOX W/ HEADWALL (±35')	NO. 5	1					
REMOVE EXISTING STRUCTURES								
		NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	
SUBTOTAL FEDERAL PARTICIPATION		1	2	1	0	1	1	54
SUBTOTAL NON-FEDERAL PARTICIPATION		0	0	1	1	0	0	0
TOTAL		1	2	2	1	1	1	54

SIGN SCHEDULE (BY OTHERS)

LOCATION	LT/RT	PROPOSED OFFSET (FOOT)	SIGN PANEL-TYPE I (SQ. FT.)	METAL POST-TYPE A (FOOT)	DESCRIPTION
STA. 8+00	RT	24.75	6.25	13	W1-4 (3030)
STA. 9+28	RT	24.75	3.0	13	W1-8 (1824)
STA. 11+28	RT	24.75	6.0	26	2 @ W1-8 (1824)
STA. 13+28	RT	24.75	6.0	26	2 @ W1-8 (1824)
STA. 15+84	RT	27.75	6.0	26	2 @ W1-8 (1824)
STA. 17+84	RT	24.75	6.0	26	2 @ W1-8 (1824)
STA. 19+84	RT	24.75	8.0	27	R4-1 (2430) / W1-8 (1824)
STA. 21+84	RT	24.75	3.0	13	W1-8 (1824)
STA. 25+50	LT	24.75	3.0	13	W1-8 (1824)
STA. 26+27	RT	25.25	5.0	14	R4-2 (2430)
STA. 27+25	LT	24.75	6.0	26	2 @ W1-8 (1824)
STA. 28+75	LT	24.75/25.25	8.0	27	R4-2 (2430) / W1-8 (1824)
STA. 30+25	LT	25.25	6.25	13	W1-4 (3030)
STA. 35+25	LT	25.25	5.0	13	R4-1 (2430)
STA. 56+00	RT	25.25	5.0	14	R4-1 (2430)
STA. 60+55	RT	24.00	6.25	13	W1-4 (3030)
STA. 61+55	RT	24.75	3.0	13	2 @ W1-8 (1824)
STA. 63+15	RT	24.75	6.0	26	2 @ W1-8 (1824)
STA. 64+50	LT	25.25	5.0	14	R4-2 (2430)
STA. 64+75	RT	24.75	6.0	26	2 @ W1-8 (1824)
STA. 66+35	RT	24.75	6.0	26	2 @ W1-8 (1824)
STA. 67+95	RT	24.75	3.0	13	2 @ W1-8 (1824)
STA. 72+36	LT	24.75	3.0	13	2 @ W1-8 (1824)
STA. 73+96	LT	24.75	6.0	26	2 @ W1-8 (1824)
STA. 75+56	LT	24.75	6.0	26	2 @ W1-8 (1824)
STA. 76+00	RT	25.25	5.0	14	R4-2 (2430)
STA. 77+16	LT	24.75	6.0	26	2 @ W1-8 (1824)
STA. 78+87	LT	24.75	3.0	13	2 @ W1-8 (1824)
STA. 79+87	LT	24.00	6.25	13	W1-4 (3030)
STA. 85+00	LT	24.00	5.0	13	R4-1 (2430)
STA. 101+26	RT	22.00	6.25	14	W3-1 (3030)
STA. 103+46	RT	22.00	6.25	14	R1-1 (3030)
STA. 104+58	LT	22.00	6.25	14	R1-1 (3030)
STA. 106+38	LT	22.00	6.25	14	W3-1 (3030)
STA. 109+77	LT	22.00	6.25	14	W1-4 (3030)
STA. 300+40	LT	28.00	6.25	14	R1-1 (3030)
STA. 302+60	LT	22.00	6.25	14	W3-1 (3030)

TREE REMOVAL SCHEDULE

LOCATION STATION / OFFSET	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
	UNITS	UNITS
FEDERAL PARTICIPATION STA. 7+75.00 TO STA. 30+90.12		
STA. 300+70, 18' LT.		30
STA. 301+08, 20' LT.		36
STA. 301+30, 23' LT.		30
STA. 15+12, 49' LT.	10	
STA. 15+15, 61' LT.	10	
STA. 15+24, 47' LT.		18
STA. 29+16, 31' RT.	15	
NON-FEDERAL PARTICIPATION STA. 30+90.12 TO STA. 59+63.32		
FEDERAL PARTICIPATION STA. 59+63.32 TO STA. 81+35.00		
SUBTOTAL FEDERAL PARTICIPATION	35	114
SUBTOTAL NON-FEDERAL PARTICIPATION	0	0
TOTAL	35	114

PIPE CULVERT REMOVAL SCHEDULE

LOCATION	DESCRIPTION	PIPE CULVERT REMOVAL FOOT	TRENCH BACKFILL (CU YD)
FEDERAL PARTICIPATION STA. 7+75.00 TO STA. 30+90.12			
STA. 301+76 RT.	12" CMP	20	
STA. 29+09 LT.	12" CMP	18	
NON-FEDERAL PARTICIPATION STA. 30+90.12 TO STA. 59+63.32			
STA. 42+04 RT.	12" CMP	22	2
STA. 44+51 RT.	24" CMP	25	8
STA. 48+00 LT.	15" CMP	18	
FEDERAL PARTICIPATION STA. 59+63.32 TO STA. 81+35.00			
SUBTOTAL FEDERAL PARTICIPATION		38	0
SUBTOTAL NON-FEDERAL PARTICIPATION		65	10
TOTAL		103	10

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	7
STA. 7+75.00 TO STA. 81+35.00			FEDERAL AID PROJECT CONTRACT 97514	

PERIMETER EROSION BARRIER/EROSION CONTROL BLANKET

LOCATION	PERIMETER EROSION BARRIER FOOT	EROSION CONTROL BLANKET SQ. YD.
FEDERAL PARTICIPATION STA. 7+75.00 TO STA. 30+90.12		
	0	83
NON-FEDERAL PARTICIPATION STA. 30+90.12 TO STA. 59+63.32		
	0	0
FEDERAL PARTICIPATION STA. 59+63.32 TO STA. 81+35.00		
	350	0
SUBTOTAL FEDERAL PARTICIPATION	350	83
SUBTOTAL NON-FEDERAL PARTICIPATION	0	0
TOTAL	350	83

(SEE EROSION CONTROL PLAN FOR PROPOSED LOCATIONS AND/OR USE AS DIRECTED BY THE ENGINEER)

INLET & PIPE PROTECTION

LOCATION	INLET AND PIPE PROTECTION EACH
FEDERAL PARTICIPATION STA. 7+75.00 TO STA. 30+90.12	
	5
NON-FEDERAL PARTICIPATION STA. 30+90.12 TO STA. 59+63.32	
	6
FEDERAL PARTICIPATION STA. 59+63.32 TO STA. 81+35.00	
	3
SUBTOTAL FEDERAL PARTICIPATION	8
SUBTOTAL NON-FEDERAL PARTICIPATION	6
TOTAL	14

(TO BE USED AT THE UPSTREAM END OF EACH DRAINAGE STRUCTURE AND/OR AT LOCATIONS DIRECTED BY THE ENGINEER)

CULVERT EXCAVATION SCHEDULE

LOCATION	STRUCTURE EXCAVATION	CHANNEL EXCAVATION
	CU YD	CU YD
FEDERAL PARTICIPATION STA. 7+75.00 TO STA. 30+90.12		
STA. 14+87.15 (5'x4' CONC. BOX CULVERT)	350	177
STA. 15+37.14 (24" ROUND CONC. CULVERT)		23
STA. 21+35.32 (42" ROUND CONC. CULVERT)		97
STA. 26+57.53 (24" ROUND CONC. CULVERT)		6
NON-FEDERAL PARTICIPATION STA. 30+90.12 TO STA. 59+63.32		
STA. 35+65.93 (42" ARCH EQUIV. CONC. CULVERT)		12
STA. 53+96.05 (DOUBLE 4'x2' CONC. BOX CULVERT)	88	8
FEDERAL PARTICIPATION STA. 59+63.32 TO STA. 81+35.00		
STA. 69+43.75 (24" ELLIPTICAL EQUIV. CONC. CULVERT)		7
STA. 76+69.90 (36" ARCH EQUIV. CONC. CULVERT)		35
SUBTOTAL FEDERAL PARTICIPATION	350	345
SUBTOTAL NON-FEDERAL PARTICIPATION	88	20
TOTAL	438	365

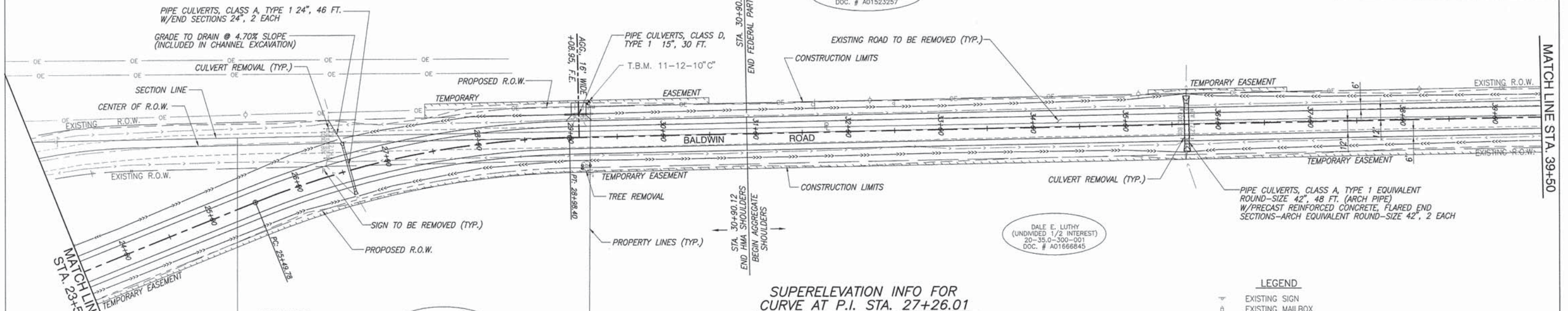
TEMPORARY DITCH CHECKS

LOCATION	TEMPORARY DITCH CHECKS FOOT
FEDERAL PARTICIPATION STA. 7+75.00 TO STA. 30+90.12	
	216
NON-FEDERAL PARTICIPATION STA. 30+90.12 TO STA. 59+63.32	
	136
FEDERAL PARTICIPATION STA. 59+63.32 TO STA. 81+35.00	
	141
SUBTOTAL FEDERAL PARTICIPATION	357
SUBTOTAL NON-FEDERAL PARTICIPATION	136
TOTAL	493

(SEE EROSION CONTROL PLAN FOR PROPOSED LOCATIONS AND/OR USE AS DIRECTED BY THE ENGINEER)

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	9
STA 7+75.00		TO	STA. 81+35.00	
FEDERAL AID PROJECT		CONTRACT 97514		

BENCHMARKS
 T.B.M. 11-12-10"C: RAILROAD SPIKE IN WEST FACE OF POWER POLE, 1/4 MILE NORTH OF RANDOLPH COUNTY LINE ROAD. ELEV. 428.08 STA. 29+19.33, 33.64' LT.



CURVE DATA
 P.I. STA. 27+26.01
 $\Delta = 20'41.56"$
 $R = 965.00'$
 $T = 176.23'$
 $L = 348.62'$
 $C = 346.73'$
 P.C. STA. 25+49.78
 P.T. STA. 28+98.40
 $e = 0.08$ FT./FT.
 S.E. RUN = 315.23' - STA. 22+98.45 TO STA. 26+13.68
 S.E. ATTAINED = STA. 26+13.68 TO STA. 28+34.50
 S.E. RUN = 204.50' - STA. 28+34.50 TO STA. 30+39.00
 T.R. = 51.12' - STA. 30+39.00 TO STA. 30+90.12

SHARON KAY THOMAS AND RICHARD A. THOMAS
 20-35.0-300-003
 DOC. # A01160590

SUPERELEVATION INFO FOR CURVE AT P.I. STA. 27+26.01

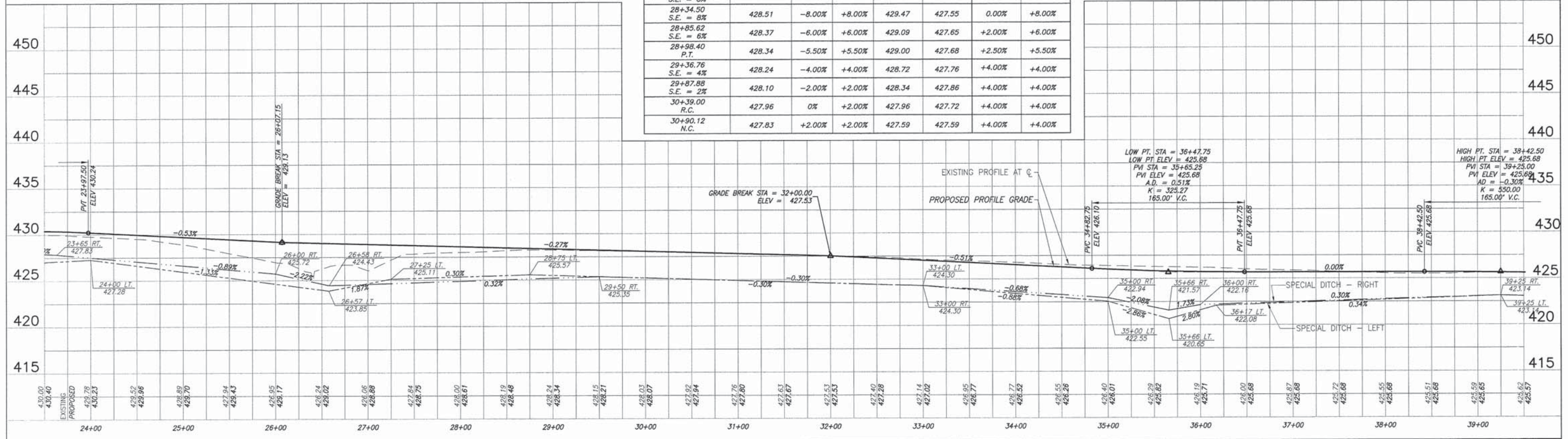
STATION	ELEVATION	CRITICAL CROSS SLOPE		EDGE OF PAVEMENT ELEV.		SHOULDER SLOPE	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
22+98.45 NO CROWN	430.64	0%	0%	430.64	430.64	+4.00%	+4.00%
23+89.85 S.E. = 2%	430.41	-2.00%	+2.00%	430.65	430.17	+4.00%	+4.00%
24+84.25 S.E. = 4%	429.64	-4.00%	+4.00%	430.12	429.16	+4.00%	+4.00%
25+49.78 P.C.	429.30	-5.50%	+5.50%	429.96	428.64	+2.50%	+5.50%
25+62.56 S.E. = 6%	429.25	-6.00%	+6.00%	429.97	428.53	+2.00%	+6.00%
26+13.68 S.E. = 8%	429.11	-8.00%	+8.00%	430.07	428.15	0.00%	+8.00%
28+34.50 S.E. = 8%	428.51	-8.00%	+8.00%	429.47	427.55	0.00%	+8.00%
28+85.62 S.E. = 6%	428.37	-6.00%	+6.00%	429.09	427.65	+2.00%	+6.00%
28+98.40 P.T.	428.34	-5.50%	+5.50%	429.00	427.68	+2.50%	+5.50%
29+36.76 S.E. = 4%	428.24	-4.00%	+4.00%	428.72	427.76	+4.00%	+4.00%
29+87.88 S.E. = 2%	428.10	-2.00%	+2.00%	428.34	427.86	+4.00%	+4.00%
30+39.00 R.C.	427.96	0%	+2.00%	427.96	427.72	+4.00%	+4.00%
30+90.12 N.C.	427.83	+2.00%	+2.00%	427.59	427.59	+4.00%	+4.00%

LEGEND

- EXISTING SIGN
- EXISTING MAILBOX
- EXISTING CULVERT
- EXISTING DITCH FLOW LINE
- EXISTING TREE
- EXISTING SAPLING
- EXISTING BUSH
- EXISTING TREE STUMP
- EXISTING R.O.W. MONUMENT
- EXISTING UNDERGROUND TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- EXISTING TELEPHONE PEDESTAL
- EXISTING GUY WIRE
- PROPOSED DITCH

CROSS SLOPE DENOTATION

SCALE:
 PLAN: 1"=50'
 PROFILE: 1"=50' HORIZ., 1"=5' VERT.



PLAN & PROFILE BALDWIN ROAD IMPROVEMENTS SECTION 10-00030-05-SP ST. CLAIR COUNTY ILLINOIS

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	10
STA 7+75.00 TO STA. 81+35.00		FEDERAL AID PROJECT CONTRACT 97514		

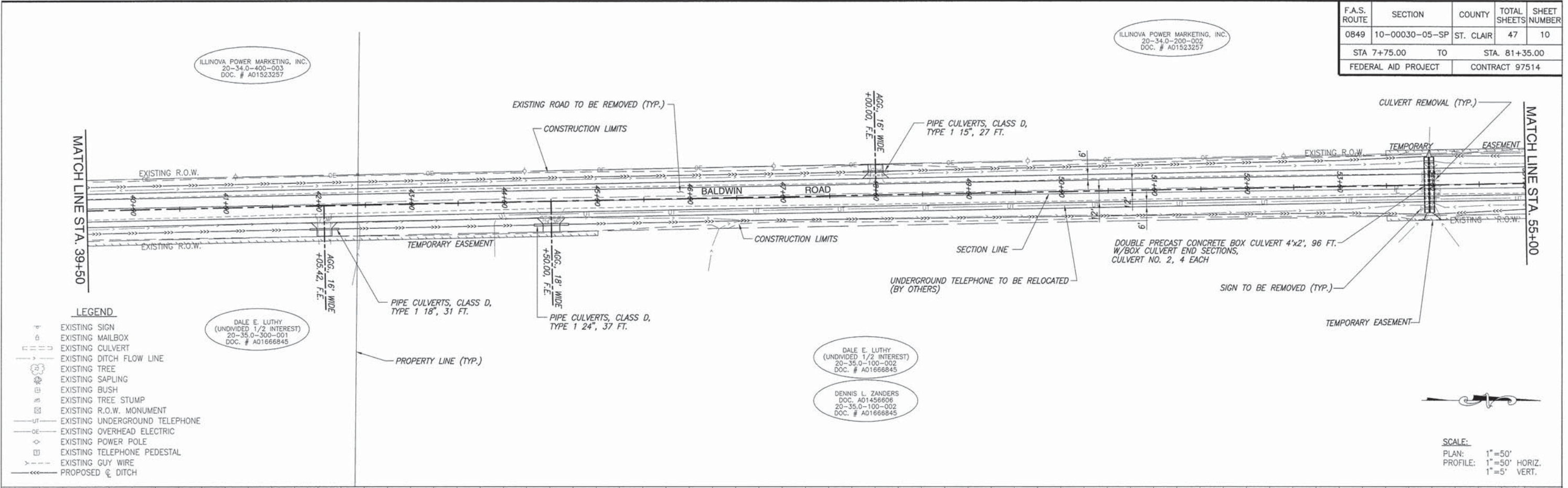
ILLINOVA POWER MARKETING, INC.
20-34.0-400-003
DOC. # A01523257

ILLINOVA POWER MARKETING, INC.
20-34.0-400-003
DOC. # A01523257

DALE E. LUTHY
(UNDIVIDED 1/2 INTEREST)
20-35.0-300-001
DOC. # A01666845

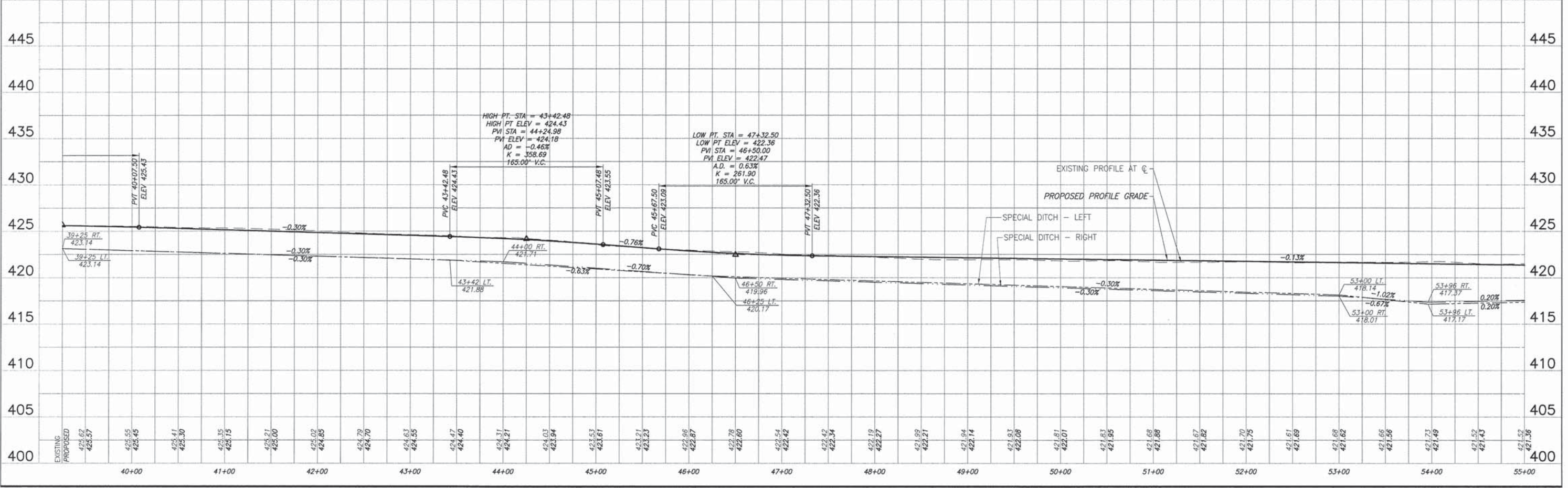
DALE E. LUTHY
(UNDIVIDED 1/2 INTEREST)
20-35.0-100-002
DOC. # A01666845

DENNIS L. ZANDERS
DOC. A01456606
20-35.0-100-002
DOC. # A01666845



- LEGEND**
- EXISTING SIGN
 - EXISTING MAILBOX
 - EXISTING CULVERT
 - EXISTING DITCH FLOW LINE
 - EXISTING TREE
 - EXISTING SAPLING
 - EXISTING BUSH
 - EXISTING TREE STUMP
 - EXISTING R.O.W. MONUMENT
 - EXISTING UNDERGROUND TELEPHONE
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING POWER POLE
 - EXISTING TELEPHONE PEDESTAL
 - EXISTING GUY WIRE
 - PROPOSED DITCH

SCALE:
PLAN: 1"=50'
PROFILE: 1"=50' HORIZ.
1"=5' VERT.

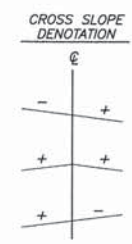


PLAN & PROFILE BALDWIN ROAD IMPROVEMENTS
SECTION 10-00030-05-SP ST. CLAIR COUNTY ILLINOIS

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	11
STA 7+75.00 TO STA. 81+35.00		FEDERAL AID PROJECT CONTRACT 97514		

SUPERELEVATION INFO FOR CURVE AT P.I. STA. 64+97.41

STATION	E ELEVATION	CRITICAL CROSS SLOPE		EDGE OF PAVEMENT ELEV.		SHOULDER SLOPES	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
59+63.32 N.C.	421.28	+2.00%	+2.00%	421.04	421.04	+4.00%	+4.00%
60+14.44 R.C.	421.44	+2.00%	0%	421.20	421.44	+4.00%	+4.00%
60+65.56 S.E. = 2%	421.61	+2.00%	-2.00%	421.37	421.85	+4.00%	+4.00%
61+16.68 S.E. = 4%	421.78	+4.00%	-4.00%	421.30	422.26	+4.00%	+4.00%
61+55.02 P.C.	421.91	+5.50%	-5.50%	421.25	422.57	+5.50%	+2.50%
61+67.80 S.E. = 6%	421.95	+6.00%	-6.00%	421.23	422.67	+6.00%	+2.00%
62+18.92 S.E. = 8%	422.12	+8.00%	-8.00%	421.16	423.08	+8.00%	0%
67+68.91 S.E. = 8%	420.79	+8.00%	-8.00%	419.83	421.75	+8.00%	0%
68+13.05 P.T.	420.55	+6.62%	-6.62%	419.76	421.34	+6.62%	+1.38%
68+32.81 S.E. = 6%	420.44	+6.00%	-6.00%	419.72	421.16	+6.00%	+2.00%
68+96.71 S.E. = 4%	420.10	+4.00%	-4.00%	419.62	420.58	+4.00%	+4.00%
69+60.61 S.E. = 2%	419.76	+2.00%	-2.00%	419.52	420.00	+4.00%	+4.00%
70+24.51	419.42	0%	0%	419.42*	419.42*	+4.00%	+4.00%



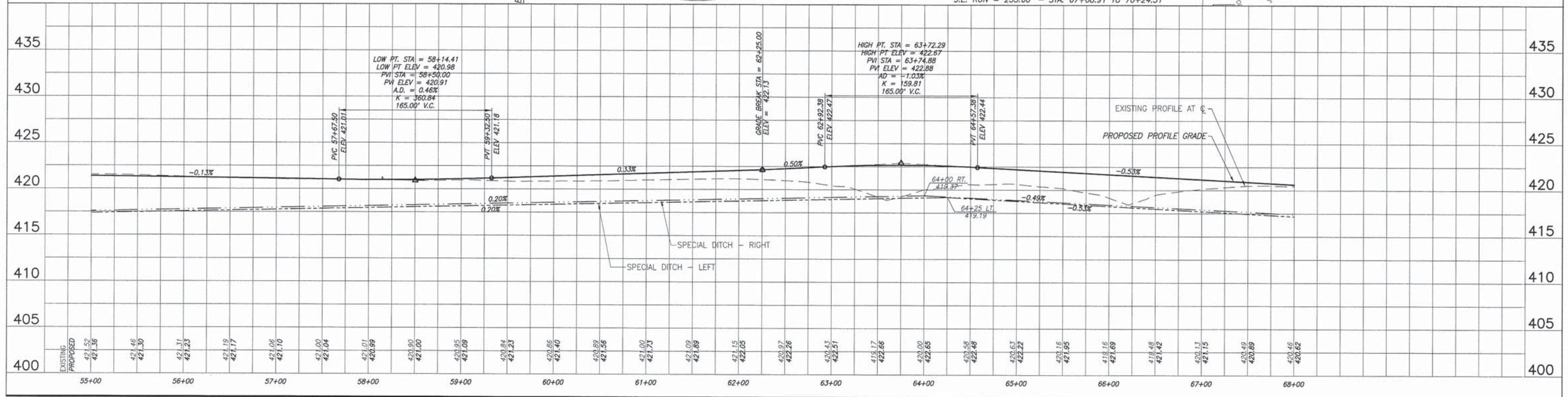
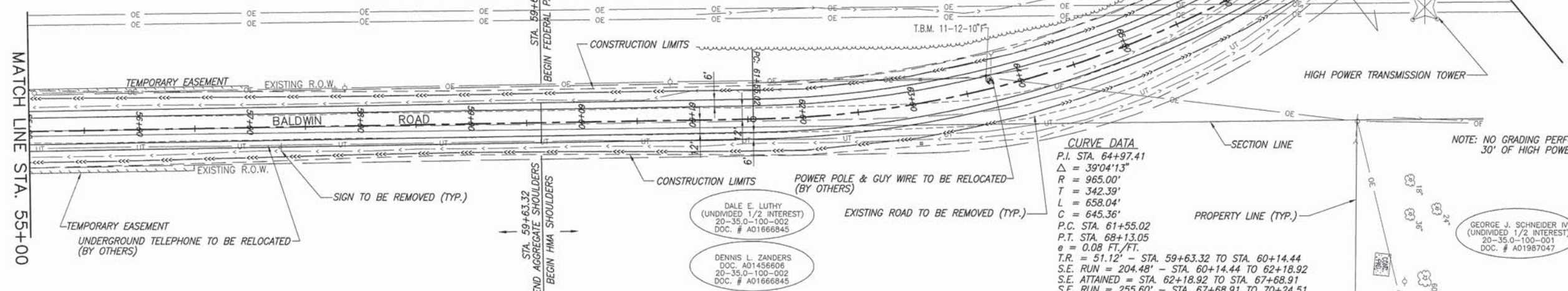
- LEGEND**
- EXISTING SIGN
 - EXISTING MAILBOX
 - EXISTING CULVERT
 - EXISTING DITCH FLOW LINE
 - EXISTING TREE
 - EXISTING SAPLING
 - EXISTING BUSH
 - EXISTING TREE STUMP
 - EXISTING R.O.W. MONUMENT
 - EXISTING UNDERGROUND TELEPHONE
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING POWER POLE
 - EXISTING TELEPHONE PEDESTAL
 - EXISTING GUY WIRE
 - PROPOSED E DITCH

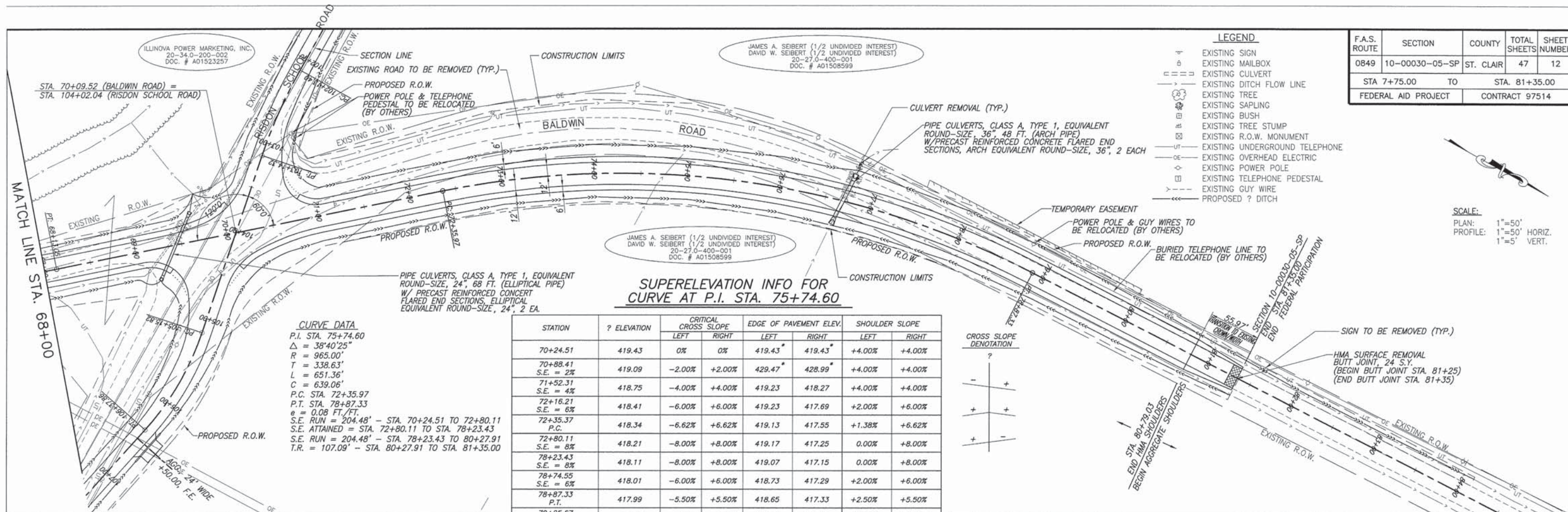
BENCHMARKS

T.B.M. 11-12-10" F": RAILROAD SPIKE IN EAST FACE OF POWER POLE, AT SOUTH END OF "S" CURVE SOUTH OF RISDON SCHOOL ROAD. ELEV. 421.30 STA. 63+68.83, 33.56' LT.

ILLINOVA POWER MARKETING, INC.
20-34.0-200-002
DOC. # A01523257

Note: Pavement Elevation at 12" Offset.
(See Intersection Details for Elevations Around the Radii.)





F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	12
STA 7+75.00 TO STA 81+35.00			FEDERAL AID PROJECT CONTRACT 97514	

- LEGEND**
- ⊕ EXISTING SIGN
 - ☐ EXISTING MAILBOX
 - EXISTING CULVERT
 - EXISTING DITCH FLOW LINE
 - ⊙ EXISTING TREE
 - ⊙ EXISTING SAPLING
 - ⊙ EXISTING BUSH
 - ⊙ EXISTING TREE STUMP
 - EXISTING R.O.W. MONUMENT
 - EXISTING UNDERGROUND TELEPHONE
 - EXISTING OVERHEAD ELECTRIC
 - ⊙ EXISTING POWER POLE
 - ⊙ EXISTING TELEPHONE PEDESTAL
 - EXISTING GUY WIRE
 - PROPOSED ? DITCH

SCALE:
 PLAN: 1"=50'
 PROFILE: 1"=50' HORIZ.
 1"=5' VERT.

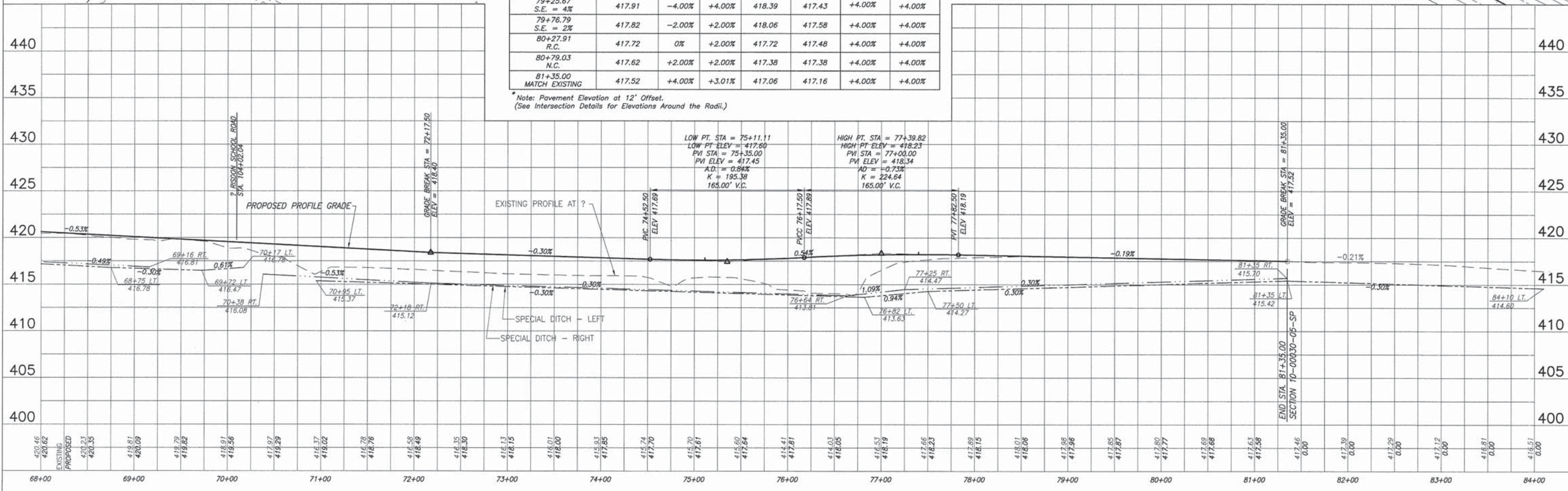
SUPERELEVATION INFO FOR CURVE AT P.I. STA. 75+74.60

STATION	? ELEVATION	CRITICAL CROSS SLOPE		EDGE OF PAVEMENT ELEV.		SHOULDER SLOPE	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
70+24.51	419.43	0%	0%	419.43*	419.43*	+4.00%	+4.00%
70+88.41	419.09	-2.00%	+2.00%	429.47*	428.99*	+4.00%	+4.00%
71+52.31	418.75	-4.00%	+4.00%	419.23	418.27	+4.00%	+4.00%
72+16.21	418.41	-6.00%	+6.00%	419.23	417.69	+2.00%	+6.00%
72+35.37	418.34	-6.62%	+6.62%	419.13	417.55	+1.38%	+6.62%
72+80.11	418.21	-8.00%	+8.00%	419.17	417.25	0.00%	+8.00%
78+23.43	418.11	-8.00%	+8.00%	419.07	417.15	0.00%	+8.00%
78+74.55	418.01	-6.00%	+6.00%	418.73	417.29	+2.00%	+6.00%
78+87.33	417.99	-5.50%	+5.50%	418.65	417.33	+2.50%	+5.50%
79+25.67	417.91	-4.00%	+4.00%	418.39	417.43	+4.00%	+4.00%
79+76.79	417.82	-2.00%	+2.00%	418.06	417.58	+4.00%	+4.00%
80+27.91	417.72	0%	+2.00%	417.72	417.48	+4.00%	+4.00%
80+79.03	417.62	+2.00%	+2.00%	417.38	417.38	+4.00%	+4.00%
81+35.00	417.52	+4.00%	+3.01%	417.06	417.16	+4.00%	+4.00%

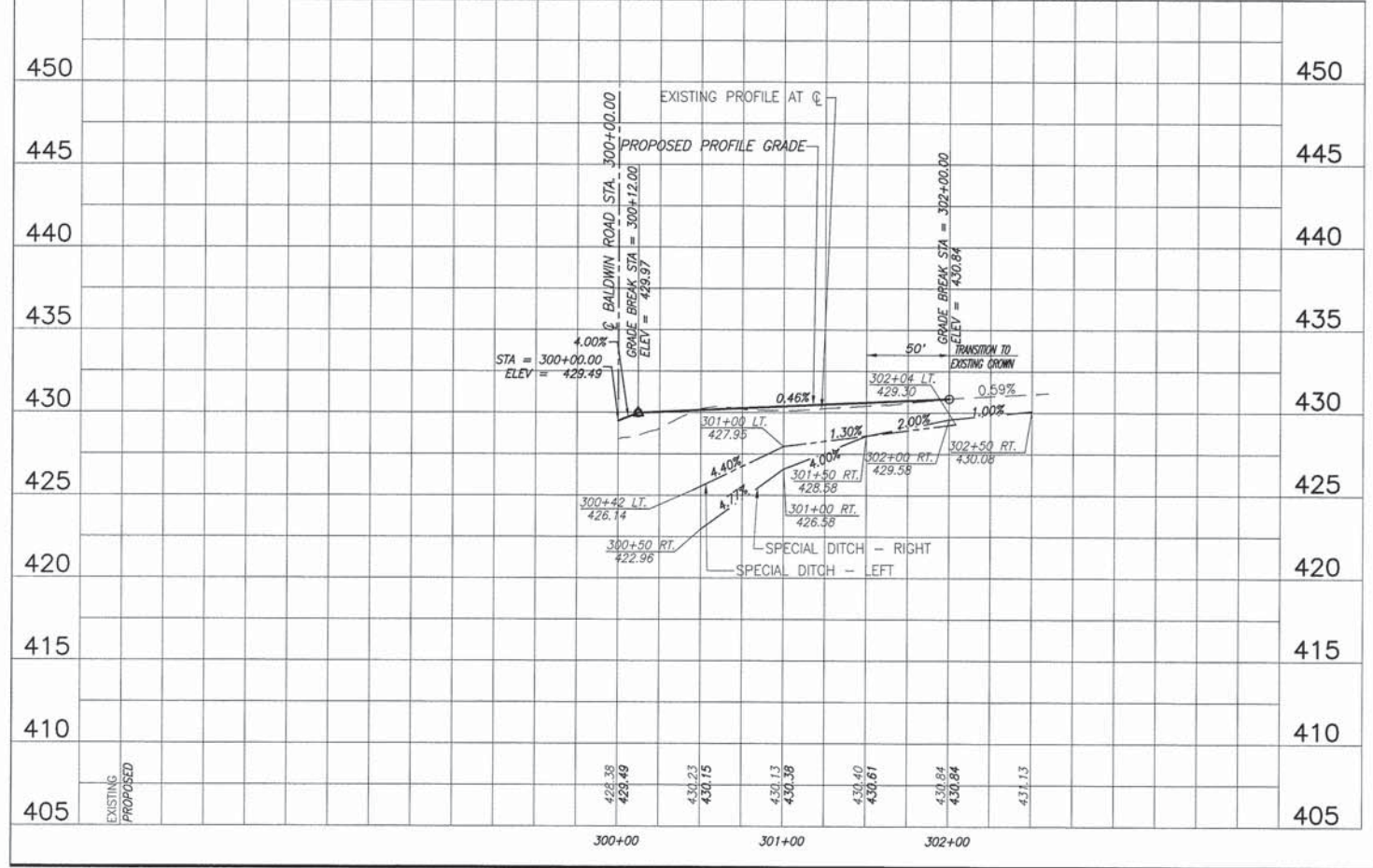
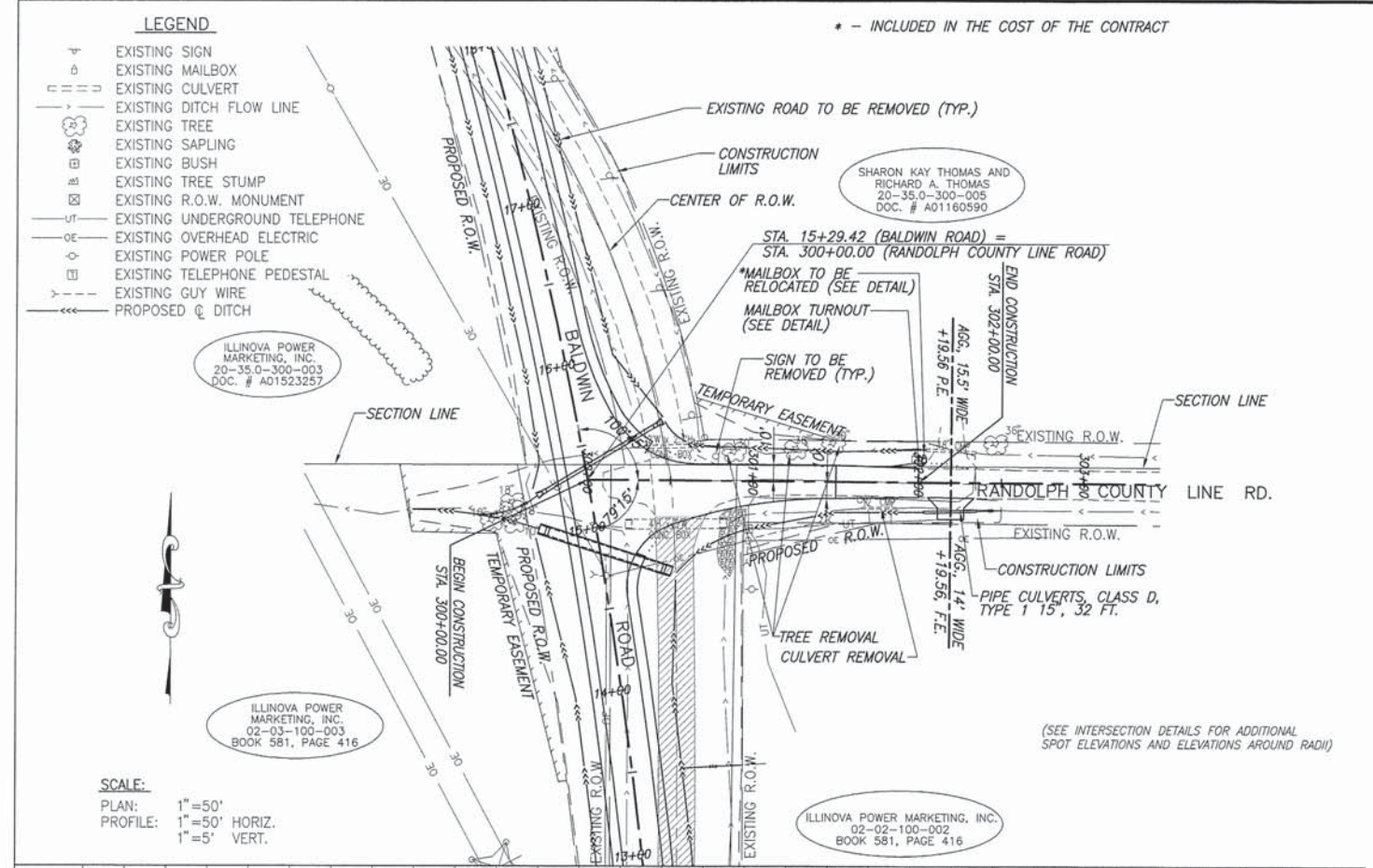
*Note: Pavement Elevation at 12' Offset.
 (See Intersection Details for Elevations Around the Radii.)

CURVE DATA

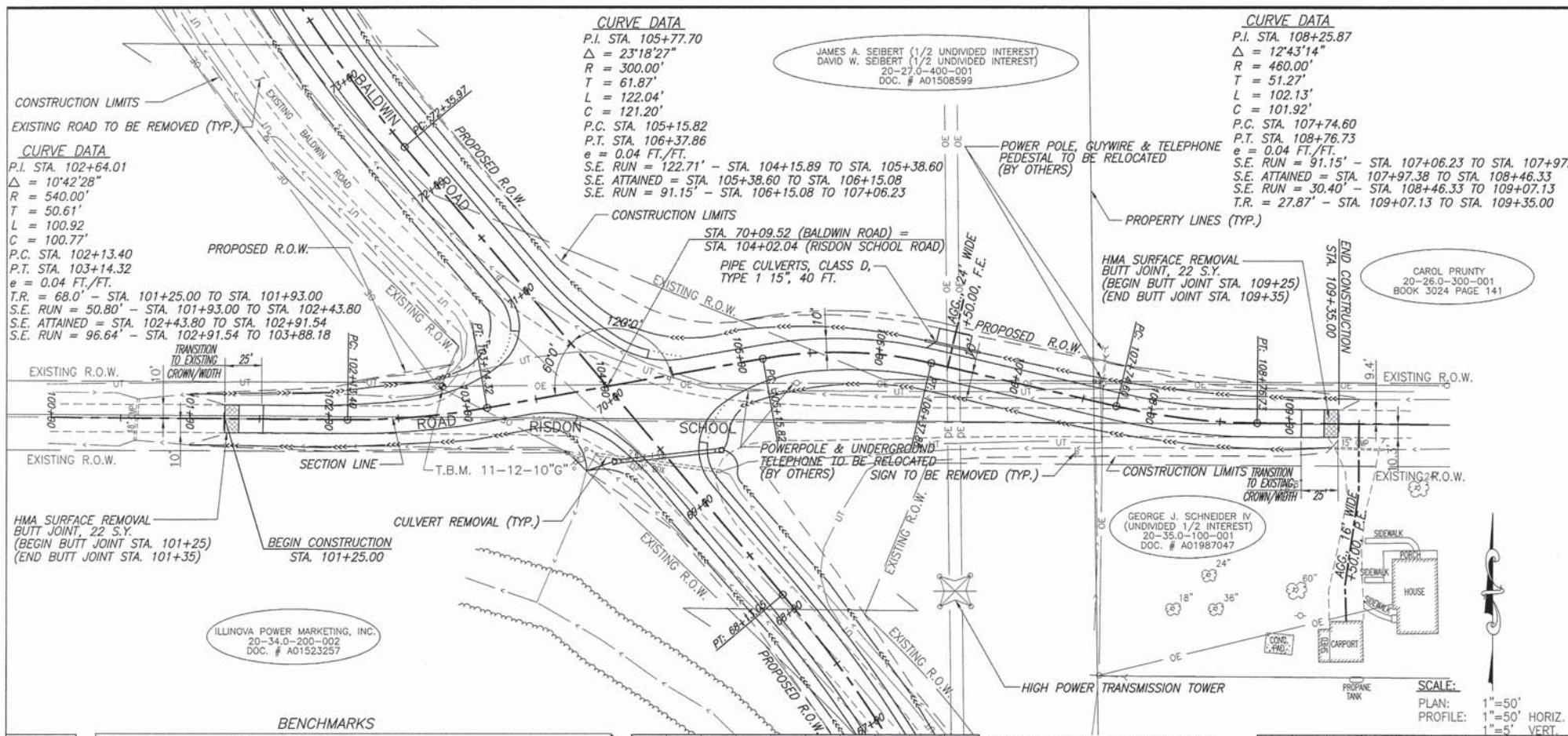
P.I. STA. 75+74.60
 $\Delta = 38^{\circ}40'25''$
 $R = 965.00'$
 $T = 338.63'$
 $L = 651.36'$
 $C = 639.06'$
 P.C. STA. 72+35.97
 P.T. STA. 78+87.33
 $e = 0.08$ FT./FT.
 S.E. RUN = 204.48' - STA. 70+24.51 TO 72+80.11
 S.E. ATTAINED = STA. 72+80.11 TO STA. 78+23.43
 S.E. RUN = 204.48' - STA. 78+23.43 TO 80+27.91
 T.R. = 107.09' - STA. 80+27.91 TO STA. 81+35.00



F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	13
STA 7+75.00		TO	STA. 81+35.00	
FEDERAL AID PROJECT			CONTRACT 97514	



PLAN & PROFILE BALDWIN ROAD IMPROVEMENTS
SECTION 10-00030-05-SP ST. CLAIR COUNTY ILLINOIS



F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	14
STA 7+75.00 TO STA. 81+35.00			FEDERAL AID PROJECT CONTRACT 97514	

SUPERELEVATION INFO FOR CURVE AT P.I. STA. 102+64.01

STATION	? ELEVATION	CRITICAL CROSS SLOPE		EDGE OF PAVEMENT ELEV.	
		LEFT	RIGHT	LEFT	RIGHT
101+25.00 Match Existing	418.59	+3.36%	+3.25%	418.25	418.27
101+54.60 N.C.	418.57	+2.00%	+2.00%	418.37	418.37
101+83.00 R.C.	418.61	+2.00%	0%	418.41	418.61
102+13.40 P.C. & S.E. = 2%	418.70	+2.00%	-2.00%	418.50*	418.90
102+43.80 S.E. = 4%	418.83	+4.00%	-4.00%	418.43*	419.23
102+91.54 S.E. = 4%	419.03	+4.00%	-4.00%	418.63*	419.43
103+14.32 P.T. & S.E. = 2%	419.13	+2.00%	-2.00%	418.93*	419.33
103+82.40	419.42	0%	0%	419.42*	419.42*
103+88.18 Match Baldwin Road	419.44	+0.17%	-0.17%	419.42*	419.46

*Note: Pavement Elevation at 10' Offset.
 (See Intersection Details for Additional Spot Elevations & Around Radii.)

SUPERELEVATION INFO FOR CURVE AT P.I. STA. 105+77.70

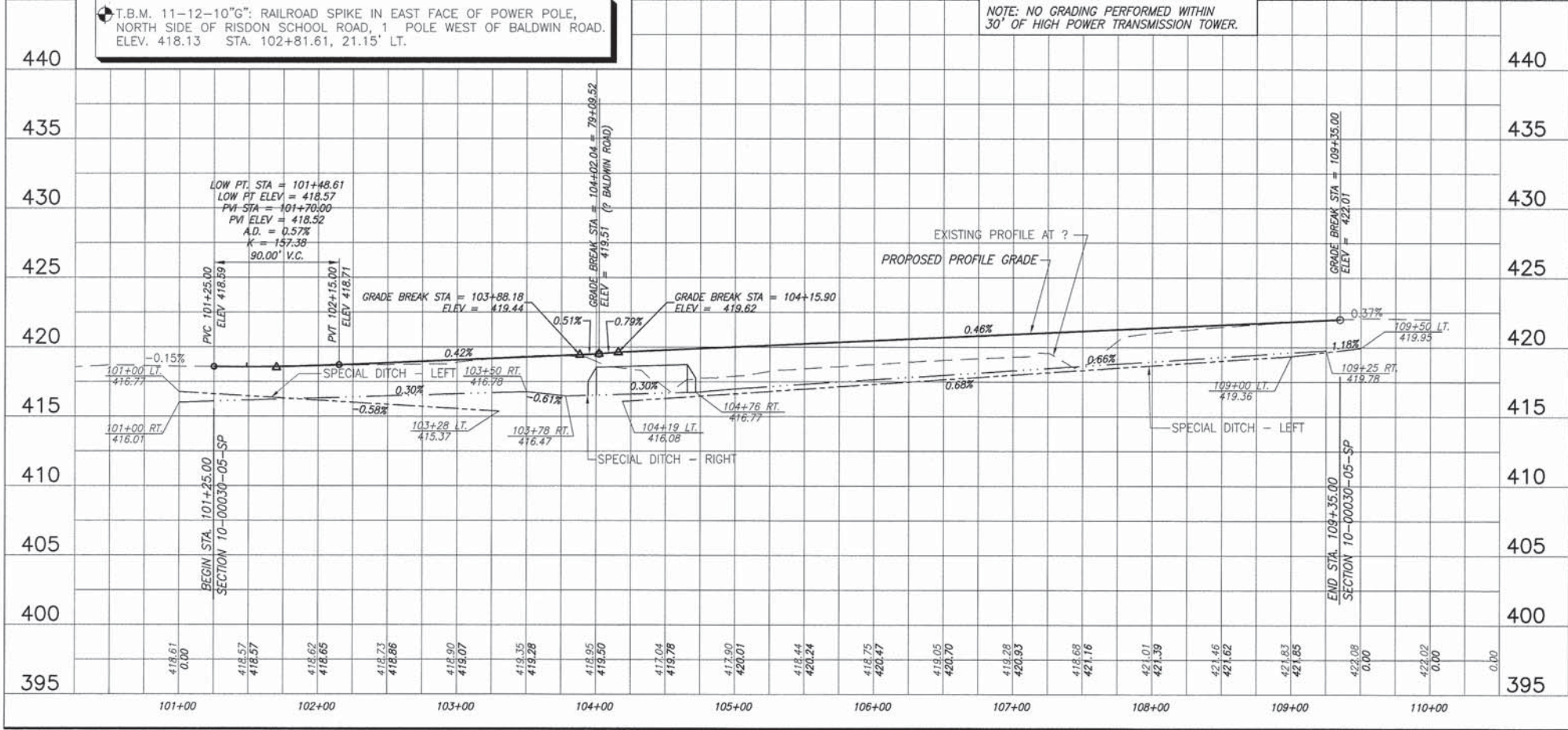
STATION	? ELEVATION	CRITICAL CROSS SLOPE		EDGE OF PAVEMENT ELEV.	
		LEFT	RIGHT	LEFT	RIGHT
104+15.89 Match Baldwin Road	419.62	+1.00%	-1.00%	419.52*	419.72*
104+47.48	419.76	0%	0%	419.76*	419.76*
104+93.04 S.E. = 2%	419.98	-2.00%	+2.00%	420.18	419.78*
105+15.82 P.C. & S.E. = 3%	420.08	-3.00%	+3.00%	420.38	419.78*
105+38.60 S.E. = 4%	420.19	-4.00%	+4.00%	420.59	419.79*
106+15.80 S.E. = 4%	420.54	-4.00%	+4.00%	420.94	420.14*
106+37.86 P.T. & S.E. = 3%	420.64	-3.00%	+3.00%	420.94	420.34*
106+60.64 S.E. = 2%	420.75	-2.00%	+2.00%	420.95	420.55
107+06.23	420.96	0%	0%	420.96	420.96

*Note: Pavement Elevation at 10' Offset.
 (See Intersection Details for Additional Spot Elevations & Around Radii.)

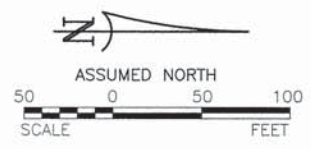
SUPERELEVATION INFO FOR CURVE AT P.I. STA. 108+25.87

STATION	? ELEVATION	CRITICAL CROSS SLOPE		EDGE OF PAVEMENT ELEV.	
		LEFT	RIGHT	LEFT	RIGHT
107+06.23	420.96	0%	0%	420.96	420.96
107+51.82 S.E. = 2%	421.17	+2.00%	-2.00%	420.97	421.37
107+74.60 P.C. & S.E. = 3%	421.27	+3.00%	-3.00%	420.97	421.57
107+97.38 S.E. = 4%	421.38	+4.00%	-4.00%	420.98	421.78
108+46.33 S.E. = 4%	421.60	+4.00%	-4.00%	421.20	422.00
108+76.73 P.T. & S.E. = 2%	421.71	+2.00%	-2.00%	421.51	421.91
109+07.13 R.C.	421.88	+2.00%	0%	421.68	421.88
109+35.00 MATCH EXISTING	422.01	+3.74%	+1.90%	421.64	421.82

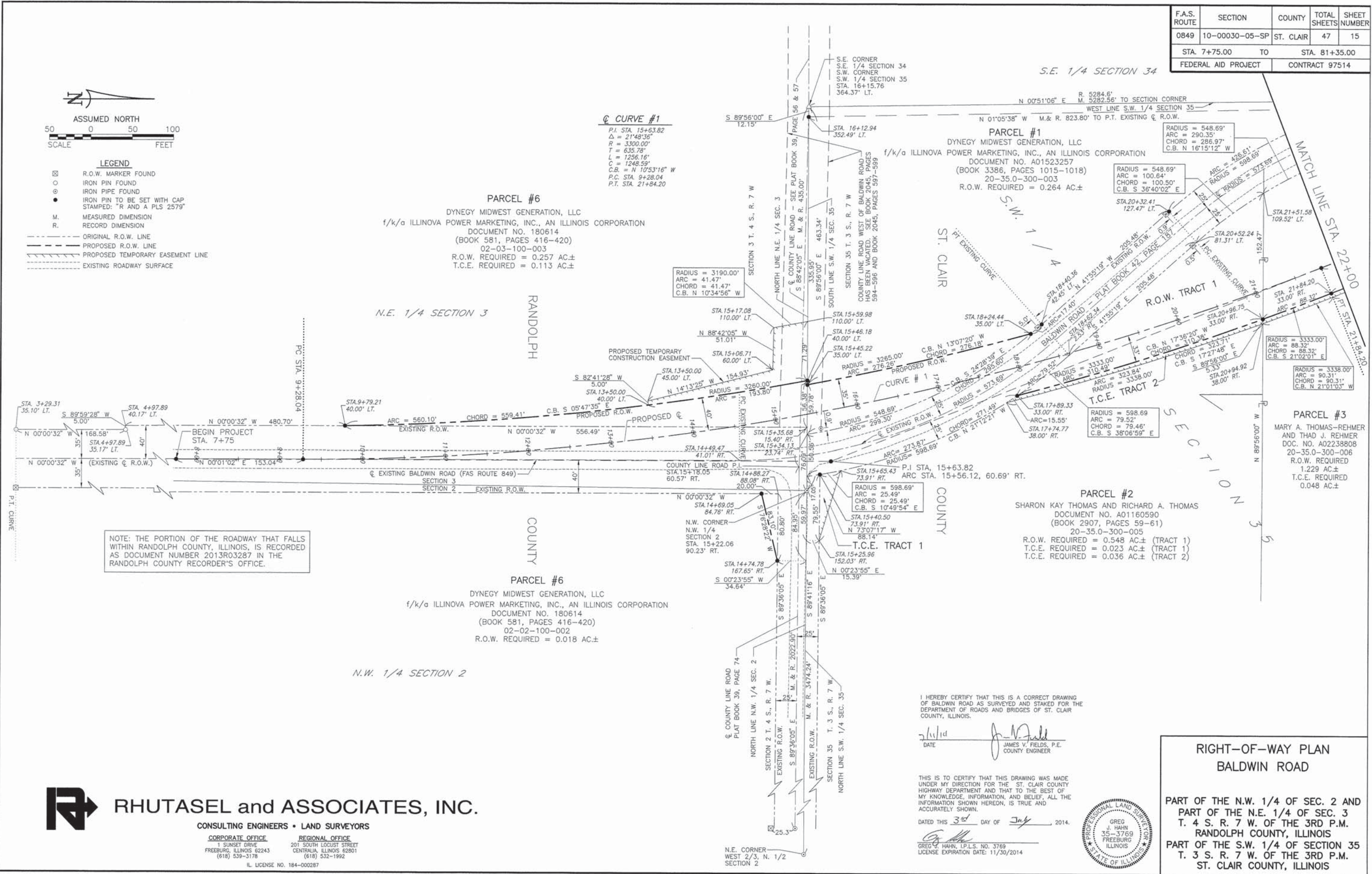
*Note: Pavement Elevation at 10' Offset.
 (See Intersection Details for Additional Spot Elevations & Around Radii.)



F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	15
STA. 7+75.00 TO STA. 81+35.00		FEDERAL AID PROJECT CONTRACT 97514		



- LEGEND**
- ☒ R.O.W. MARKER FOUND
 - IRON PIN FOUND
 - ⊙ IRON PIPE FOUND
 - IRON PIN TO BE SET WITH CAP STAMPED: "R AND A PLS 2579"
 - M. MEASURED DIMENSION
 - R. RECORD DIMENSION
 - ORIGINAL R.O.W. LINE
 - - - PROPOSED R.O.W. LINE
 - · - · - PROPOSED TEMPORARY EASEMENT LINE
 - EXISTING ROADWAY SURFACE



NOTE: THE PORTION OF THE ROADWAY THAT FALLS WITHIN RANDOLPH COUNTY, ILLINOIS, IS RECORDED AS DOCUMENT NUMBER 2013R03287 IN THE RANDOLPH COUNTY RECORDER'S OFFICE.

I HEREBY CERTIFY THAT THIS IS A CORRECT DRAWING OF BALDWIN ROAD AS SURVEYED AND STAKED FOR THE DEPARTMENT OF ROADS AND BRIDGES OF ST. CLAIR COUNTY, ILLINOIS.

DATE: 7/11/14
JAMES V. FIELDS, P.E.
COUNTY ENGINEER

THIS IS TO CERTIFY THAT THIS DRAWING WAS MADE UNDER MY DIRECTION FOR THE ST. CLAIR COUNTY HIGHWAY DEPARTMENT AND THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, ALL THE INFORMATION SHOWN HEREON, IS TRUE AND ACCURATELY SHOWN.

DATED THIS 3rd DAY OF July, 2014.
GREG C. HAHN, I.P.L.S. NO. 3769
LICENSE EXPIRATION DATE: 11/30/2014



RHUTASEL and ASSOCIATES, INC.
CONSULTING ENGINEERS • LAND SURVEYORS

CORPORATE OFFICE
1 SUNSET DRIVE
FREEBURG, ILLINOIS 62243
(618) 539-3178
IL. LICENSE NO. 184-000287

REGIONAL OFFICE
201 SOUTH LOCUST STREET
CENTRALIA, ILLINOIS 62801
(618) 532-1992

**RIGHT-OF-WAY PLAN
BALDWIN ROAD**

PART OF THE N.W. 1/4 OF SEC. 2 AND
PART OF THE N.E. 1/4 OF SEC. 3
T. 4 S. R. 7 W. OF THE 3RD P.M.
RANDOLPH COUNTY, ILLINOIS

PART OF THE S.W. 1/4 OF SECTION 35
T. 3 S. R. 7 W. OF THE 3RD P.M.
ST. CLAIR COUNTY, ILLINOIS

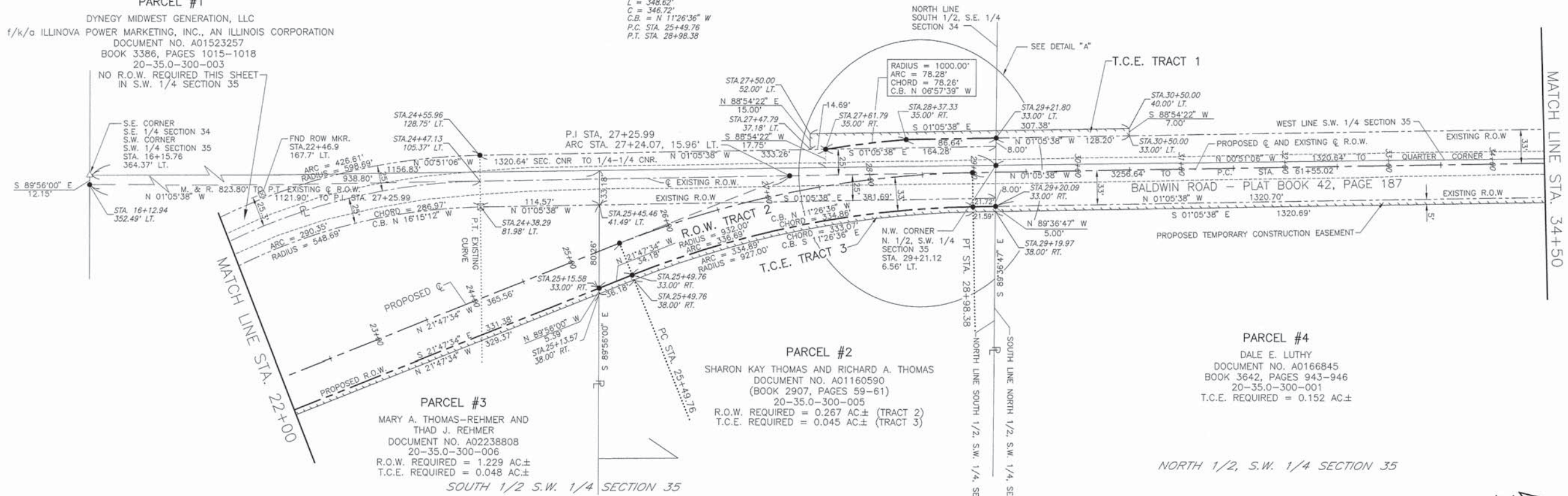
F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	16
STA. 7+75.00 TO		STA. 81+35.00		
FEDERAL AID PROJECT		CONTRACT 97514		

PARCEL #1
 DYNEGY MIDWEST GENERATION, LLC
 f/k/a ILLINOVA POWER MARKETING, INC., AN ILLINOIS CORPORATION
 DOCUMENT NO. A01523257
 (BOOK 3386, PAGES 1015-1018)
 20-34.0-400-003
 R.O.W. REQUIRED = 0.024 AC±
 T.C.E. REQUIRED = 0.058 AC± (TRACT 1)

S.E. 1/4 SECTION 34

Q CURVE #2
 P.I. STA. 27+25.99
 $\Delta = 20'41''55''$
 $R = 965.00'$
 $T = 176.23'$
 $L = 348.62'$
 $C = 346.72'$
 $C.B. = N 11'26''36'' W$
 P.C. STA. 25+49.78
 P.T. STA. 28+98.38

PARCEL #1
 DYNEGY MIDWEST GENERATION, LLC
 f/k/a ILLINOVA POWER MARKETING, INC., AN ILLINOIS CORPORATION
 DOCUMENT NO. A01523257
 BOOK 3386, PAGES 1015-1018
 20-35.0-300-003
 NO R.O.W. REQUIRED THIS SHEET IN S.W. 1/4 SECTION 35

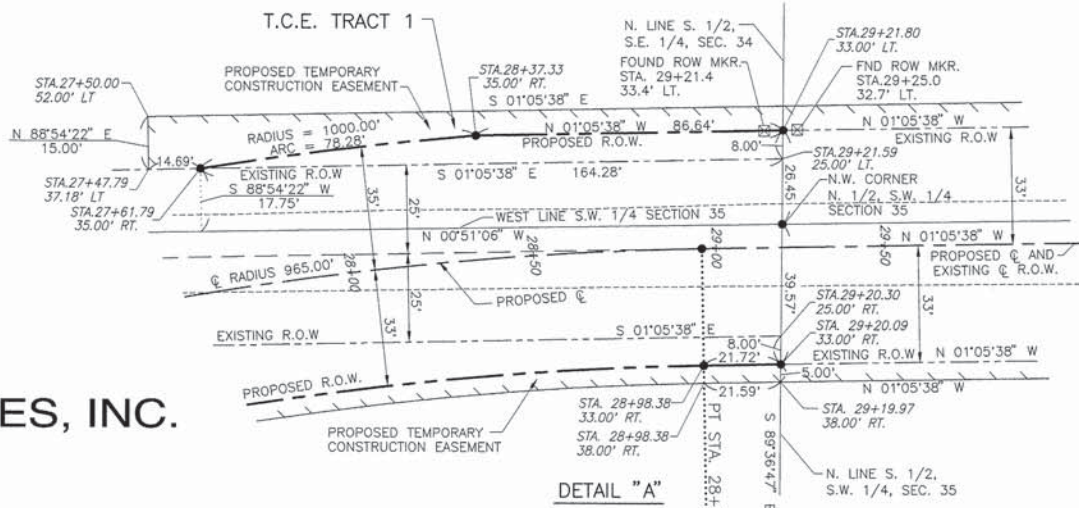


PARCEL #3
 MARY A. THOMAS-REHMER AND THAD J. REHMER
 DOCUMENT NO. A02238808
 20-35.0-300-006
 R.O.W. REQUIRED = 1.229 AC±
 T.C.E. REQUIRED = 0.048 AC±
 SOUTH 1/2 S.W. 1/4 SECTION 35

PARCEL #2
 SHARON KAY THOMAS AND RICHARD A. THOMAS
 DOCUMENT NO. A01160590
 (BOOK 2907, PAGES 59-61)
 20-35.0-300-005
 R.O.W. REQUIRED = 0.267 AC± (TRACT 2)
 T.C.E. REQUIRED = 0.045 AC± (TRACT 3)

PARCEL #4
 DALE E. LUTHY
 DOCUMENT NO. A0166845
 BOOK 3642, PAGES 943-946
 20-35.0-300-001
 T.C.E. REQUIRED = 0.152 AC±

NORTH 1/2, S.W. 1/4 SECTION 35

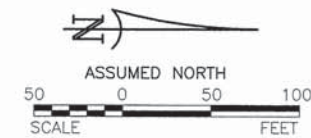


I HEREBY CERTIFY THAT THIS IS A CORRECT DRAWING OF BALDWIN ROAD AS SURVEYED AND STAKED FOR THE DEPARTMENT OF ROADS AND BRIDGES OF ST. CLAIR COUNTY, ILLINOIS.

7/1/14
 DATE
 JAMES V. FIELDS, P.E.
 COUNTY ENGINEER

THIS IS TO CERTIFY THAT THIS DRAWING WAS MADE UNDER MY DIRECTION FOR THE ST. CLAIR COUNTY HIGHWAY DEPARTMENT AND THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, ALL THE INFORMATION SHOWN HEREON, IS TRUE AND ACCURATELY SHOWN.

DATE THIS 3rd DAY OF July 2014.
 GREG J. HAHN, I.P.L.S. NO. 3769
 LICENSE EXPIRATION DATE: 11/30/2014



- LEGEND**
- ☒ R.O.W. MARKER FOUND
 - IRON PIN TO BE SET WITH CAP STAMPED: "R AND A PLS 2579"
 - M. MEASURED DIMENSION
 - R. RECORD DIMENSION
 - ORIGINAL R.O.W. LINE
 - - - - - PROPOSED R.O.W. LINE
 - - - - - PROPOSED TEMPORARY EASEMENT LINE
 - EXISTING ROADWAY SURFACE

**RIGHT-OF-WAY PLAN
 BALDWIN ROAD**

PART OF THE S.E. 1/4 OF SEC. 34 AND
 PART OF THE S.W. 1/4 OF SEC. 35
 T. 4 S. R. 7 W OF THE 3RD P.M.
 ST. CLAIR COUNTY, ILLINOIS



RHUTASEL and ASSOCIATES, INC.

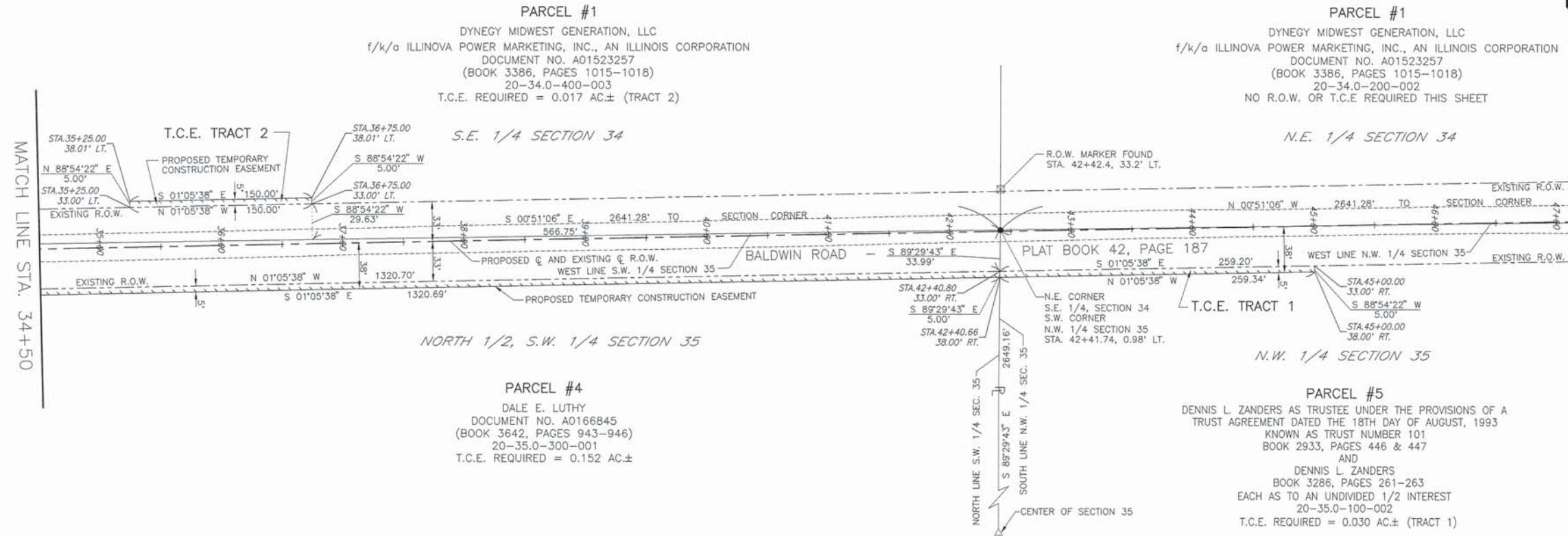
CONSULTING ENGINEERS • LAND SURVEYORS

CORPORATE OFFICE
 1 SUNSET DRIVE
 FREEBURG, ILLINOIS 62243
 (618) 539-3178

REGIONAL OFFICE
 201 SOUTH LOCUST STREET
 CENTRALIA, ILLINOIS 62801
 (618) 532-1992

IL LICENSE NO. 184-00287

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	17
STA. 7+75.00 TO		STA. 81+35.00		
FEDERAL AID PROJECT		CONTRACT 97514		

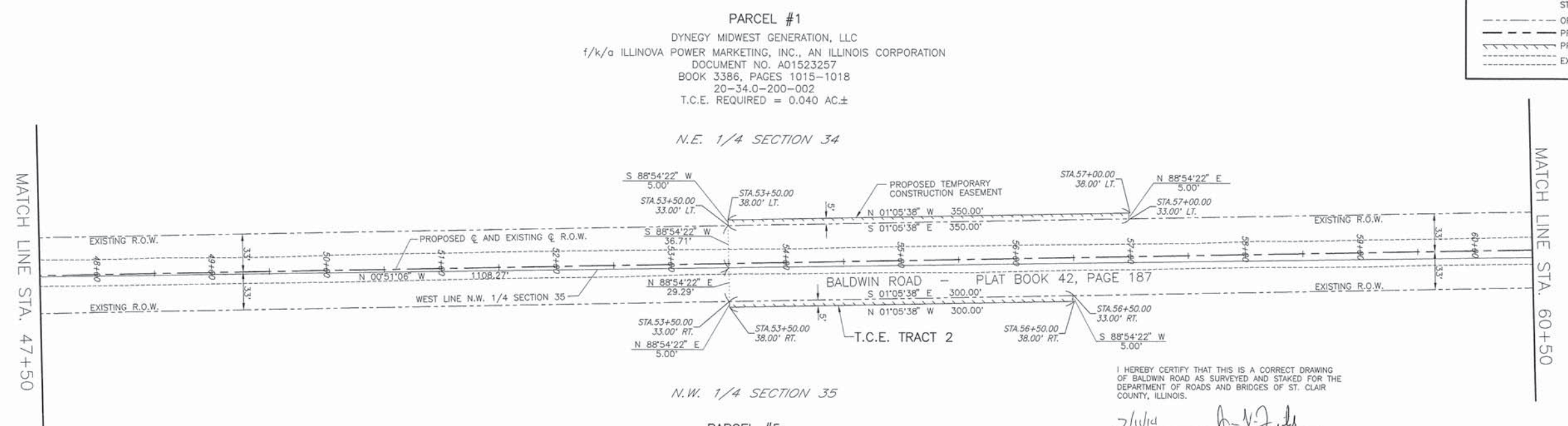


ASSUMED NORTH

50 0 50 100
SCALE FEET

LEGEND

- ☒ R.O.W. MARKER FOUND
- IRON PIN TO BE SET WITH CAP STAMPED: "R AND A PLS 2579"
- ORIGINAL R.O.W. LINE
- - - PROPOSED R.O.W. LINE
- PROPOSED TEMPORARY EASEMENT LINE
- EXISTING ROADWAY SURFACE



I HEREBY CERTIFY THAT THIS IS A CORRECT DRAWING OF BALDWIN ROAD AS SURVEYED AND STAKED FOR THE DEPARTMENT OF ROADS AND BRIDGES OF ST. CLAIR COUNTY, ILLINOIS.

7/11/14
DATE

James V. Fields
JAMES V. FIELDS, P.E.
COUNTY ENGINEER

THIS IS TO CERTIFY THAT THIS DRAWING WAS MADE UNDER MY DIRECTION FOR THE ST. CLAIR COUNTY HIGHWAY DEPARTMENT AND THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, ALL THE INFORMATION SHOWN HEREON, IS TRUE AND ACCURATELY SHOWN.

DATED THIS 3rd DAY OF July, 2014.

Greg J. Hahn
GREG J. HAHN, L.P.L.S. NO. 3769
ILLINOIS
LICENSE EXPIRATION DATE: 11/30/2014



**RIGHT-OF-WAY PLAN
BALDWIN ROAD**

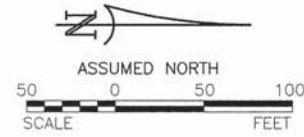
PART OF THE EAST 1/2 OF SEC. 34 AND
PART OF THE WEST 1/2 OF SEC. 35
T. 4 S. R. 7 W OF THE 3RD P.M.
ST. CLAIR COUNTY, ILLINOIS

RHUTASEL and ASSOCIATES, INC.
CONSULTING ENGINEERS • LAND SURVEYORS

CORPORATE OFFICE
1 SUNSET DRIVE
FREEBURG, ILLINOIS 62243
(618) 539-3178
IL LICENSE NO. 184-000287

REGIONAL OFFICE
201 SOUTH LOCUST STREET
CENTRALIA, ILLINOIS 62801
(618) 532-1992

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	18
STA. 7+75.00		TO	STA. 81+35.00	
FEDERAL AID PROJECT		CONTRACT 97514		



- LEGEND**
- ☒ R.O.W. MARKER FOUND
 - IRON PIN FOUND
 - ⊙ IRON PIPE FOUND
 - RAILROAD SPIKE FOUND
 - IRON PIN TO BE SET WITH CAP STAMPED: "R AND A PLS 2579"
 - M. MEASURED DIMENSION
 - R. RECORD DIMENSION
 - ORIGINAL R.O.W. LINE
 - - - PROPOSED R.O.W. LINE
 - EXISTING ROADWAY SURFACE

I HEREBY CERTIFY THAT THIS IS A CORRECT DRAWING OF BALDWIN ROAD AS SURVEYED AND STAKED FOR THE DEPARTMENT OF ROADS AND BRIDGES OF ST. CLAIR COUNTY, ILLINOIS.

7/1/14
DATE
James V. Fields, P.E.
COUNTY ENGINEER

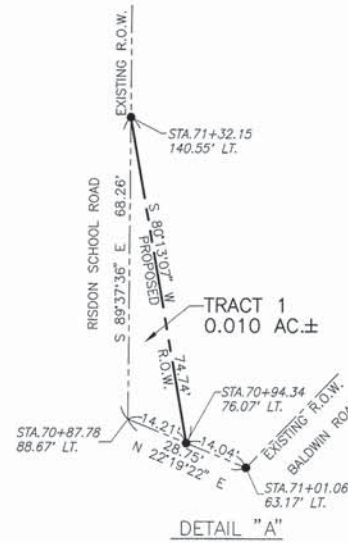
THIS IS TO CERTIFY THAT THIS DRAWING WAS MADE UNDER MY DIRECTION FOR THE ST. CLAIR COUNTY HIGHWAY DEPARTMENT AND THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, ALL THE INFORMATION SHOWN HEREON, IS TRUE AND ACCURATELY SHOWN.

DATED THIS 3rd DAY OF July 2014.

Greg J. Hahn
GREG J. HAHN, P.L.S. NO. 3769
FREEBURG, ILLINOIS
LICENSE EXPIRATION DATE: 11/30/2014



N.E. 1/4 SECTION 34



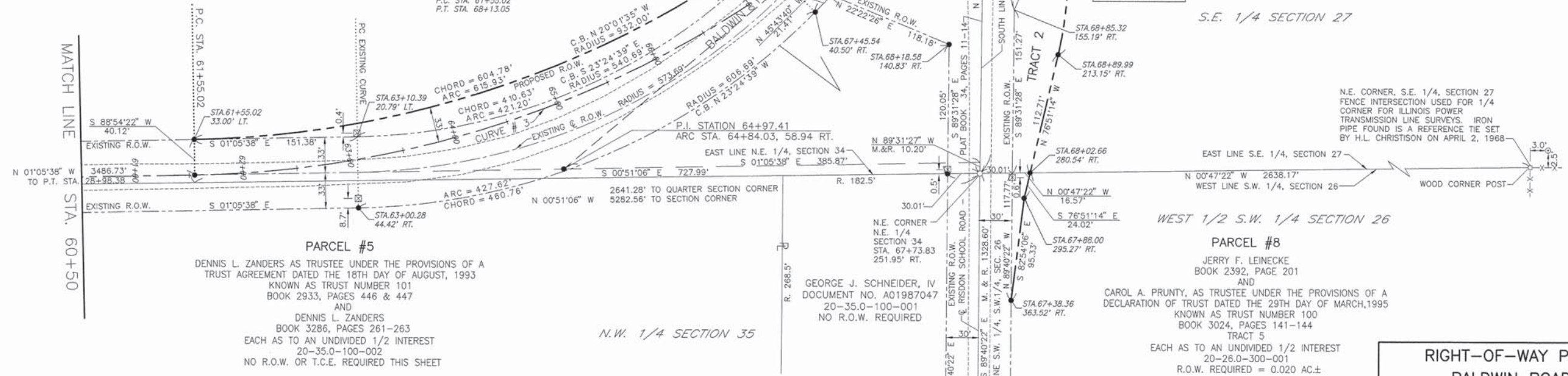
PARCEL #1
DYNEGY MIDWEST GENERATION, LLC
f/k/a ILLINOVA POWER MARKETING, INC., AN ILLINOIS CORPORATION
DOCUMENT NO. A01523257
BOOK 3386, PAGES 1015-1018
20-34.0-200-002
R.O.W. REQUIRED = 0.231 AC±

Q CURVE #3
P.I. STA. 64+97.41
Δ = 39°04'13"
R = 965.00'
T = 342.39'
L = 658.04'
C = 645.36'
C.B. = N 20°37'44" W
P.C. STA. 61+55.02
P.T. STA. 68+13.05

PARCEL #7
JAMES A. SEIBERT AND DAVID W. SEIBERT,
EACH AN UNDIVIDED 1/2 INTEREST
DOCUMENT NO. A01508599
(BOOK 3365, PAGES 214 & 215)
20-27.0-400-001
R.O.W. REQUIRED = 0.010 AC± (TRACT 1)
R.O.W. REQUIRED = 0.178 AC± (TRACT 2)
R.O.W. REQUIRED = 0.545 AC± (TRACT 3)

Q CURVE #4
P.I. STA. 75+74.60
Δ = 38°40'25"
R = 965.00'
T = 338.63'
L = 651.36'
C = 639.06'
C.B. = N 20°49'38" W
P.C. STA. 72+35.97
P.T. STA. 78+87.33

S.E. 1/4 SECTION 27



RHUTASEL and ASSOCIATES, INC.

CONSULTING ENGINEERS • LAND SURVEYORS

CORPORATE OFFICE
1 SUNSET DRIVE
FREEBURG, ILLINOIS 62243
(618) 539-3178

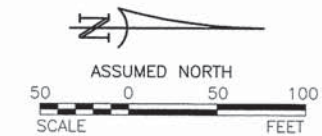
REGIONAL OFFICE
201 SOUTH LOCUST STREET
CENTRALIA, ILLINOIS 62801
(618) 532-1992

IL LICENSE NO. 184-000287

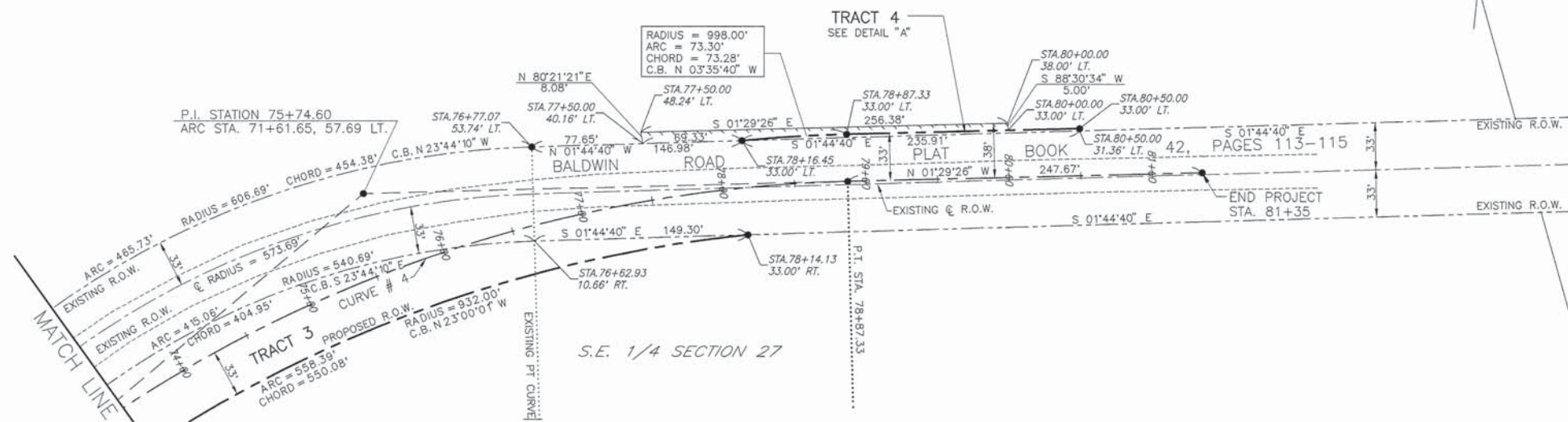
**RIGHT-OF-WAY PLAN
BALDWIN ROAD**

PART OF THE S.W. 1/4 OF SEC. 26,
PART OF THE S.E. 1/4 OF SEC. 27,
PART OF THE N.E. 1/4 OF SEC. 34, AND
PART OF THE N.W. 1/4 OF SEC. 35
T. 4 S. R. 7 W OF THE 3RD P.M.
ST. CLAIR COUNTY, ILLINOIS

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	19
STA. 7+75.00 TO		STA. 81+35.00		
FEDERAL AID PROJECT		CONTRACT 97514		

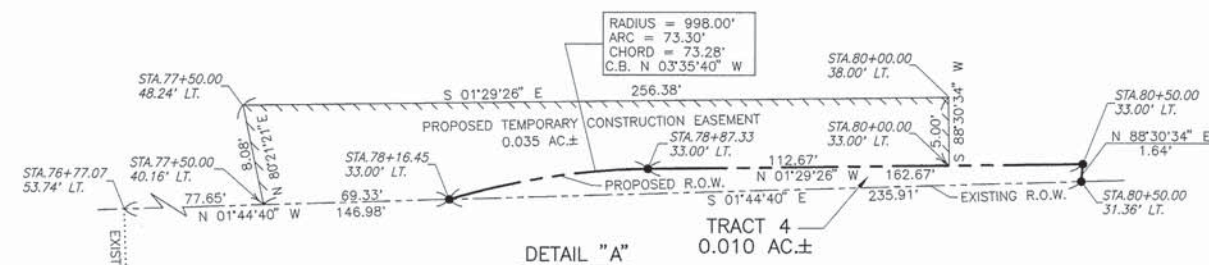


- LEGEND**
- IRON PIN TO BE SET WITH CAP STAMPED: "R AND A PLS 2579"
 - ORIGINAL R.O.W. LINE
 - - - PROPOSED R.O.W. LINE
 - PROPOSED TEMPORARY EASEMENT LINE
 - EXISTING ROADWAY SURFACE



© CURVE #4
 P.I. STA. 75+74.60
 $\Delta = 38^{\circ}40'25''$
 $R = 965.00'$
 $T = 338.63'$
 $L = 651.36'$
 $C = 639.06'$
 C.B. = N 20°49'38" W
 P.C. STA. 72+35.97
 P.T. STA. 78+87.33

PARCEL #7
 JAMES A. SEIBERT AND DAVID W. SEIBERT,
 EACH AN UNDIVIDED 1/2 INTEREST
 DOCUMENT NO. A01508599
 (BOOK 3365, PAGES 214 & 215)
 20-27.0-400-001
 R.O.W. REQUIRED = 0.545 AC.± (TRACT 3)
 R.O.W. REQUIRED = 0.010 AC.± (TRACT 4)
 T.C.E. REQUIRED = 0.035 AC.±



I HEREBY CERTIFY THAT THIS IS A CORRECT DRAWING OF BALDWIN ROAD AS SURVEYED AND STAKED FOR THE DEPARTMENT OF ROADS AND BRIDGES OF ST. CLAIR COUNTY, ILLINOIS.

7/14/14
 DATE
 JAMES V. FIELDS, P.E.
 COUNTY ENGINEER

THIS IS TO CERTIFY THAT THIS DRAWING WAS MADE UNDER MY DIRECTION FOR THE ST. CLAIR COUNTY HIGHWAY DEPARTMENT AND THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, ALL THE INFORMATION SHOWN HEREON, IS TRUE AND ACCURATELY SHOWN.

DATED THIS 3rd DAY OF July, 2014.
 GREG J. HAHN
 GREG J. HAHN, I.P.L.S. NO. 3769
 LICENSE EXPIRATION DATE: 11/30/2014



RHUTASEL and ASSOCIATES, INC.
 CONSULTING ENGINEERS • LAND SURVEYORS

CORPORATE OFFICE	REGIONAL OFFICE
1 SUNSET DRIVE FREEBURG, ILLINOIS 62243 (618) 539-3178	201 SOUTH LOCUST STREET CENTRALIA, ILLINOIS 62801 (618) 532-1992
IL LICENSE NO. 184-000287	

RIGHT-OF-WAY PLAN
BALDWIN ROAD
 PART OF THE S.E. 1/4 OF SEC. 34 AND
 PART OF THE S.W. 1/4 OF SEC. 35
 T. 4 S. R. 7 W OF THE 3RD P.M.
 ST. CLAIR COUNTY, ILLINOIS

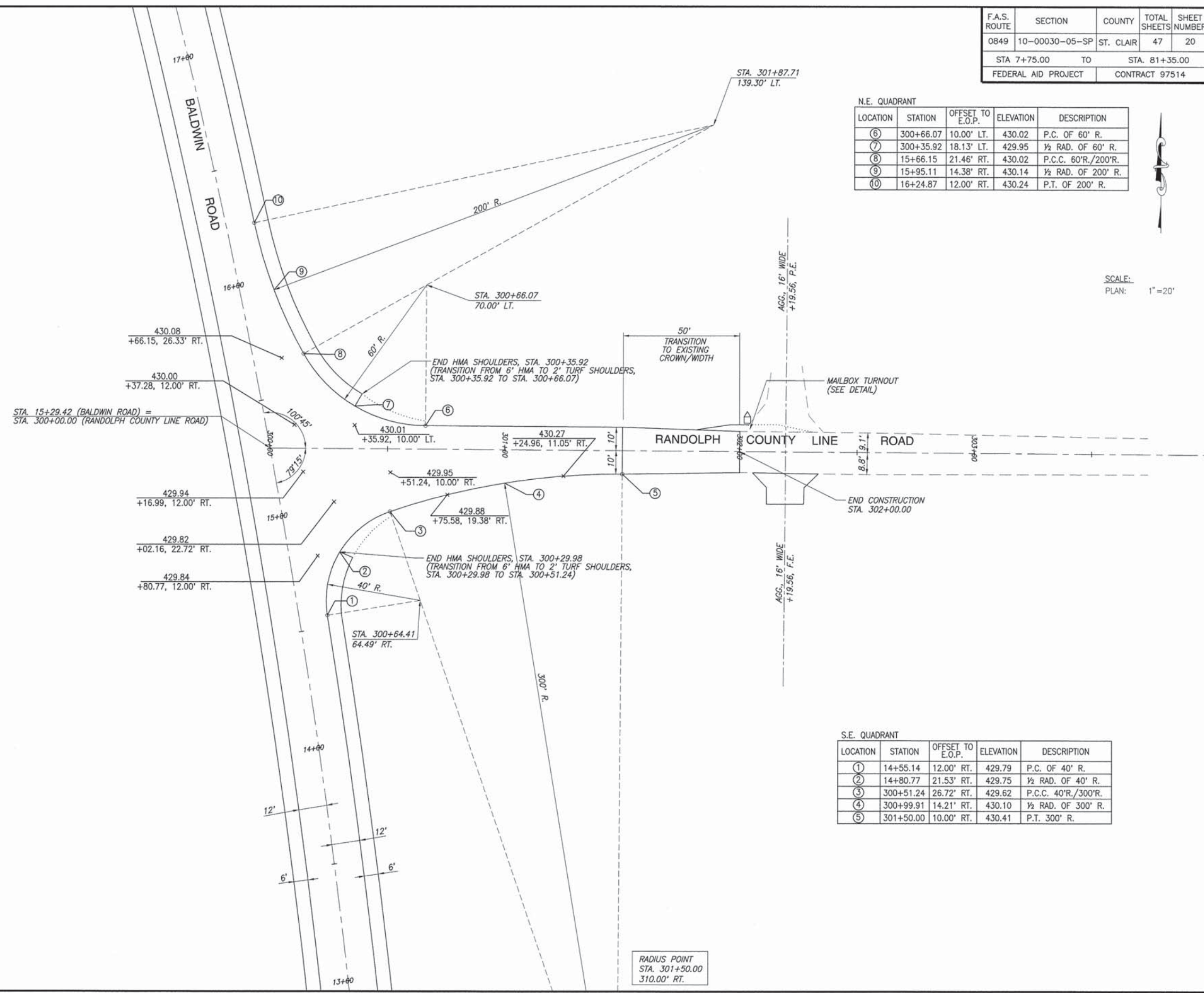
F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	20
STA 7+75.00		TO		STA. 81+35.00
FEDERAL AID PROJECT		CONTRACT 97514		

N.E. QUADRANT

LOCATION	STATION	OFFSET TO E.O.P.	ELEVATION	DESCRIPTION
⑥	300+66.07	10.00' LT.	430.02	P.C. OF 60' R.
⑦	300+35.92	18.13' LT.	429.95	½ RAD. OF 60' R.
⑧	15+66.15	21.46' RT.	430.02	P.C.C. 60'R./200'R.
⑨	15+95.11	14.38' RT.	430.14	½ RAD. OF 200' R.
⑩	16+24.87	12.00' RT.	430.24	P.T. OF 200' R.

S.E. QUADRANT

LOCATION	STATION	OFFSET TO E.O.P.	ELEVATION	DESCRIPTION
①	14+55.14	12.00' RT.	429.79	P.C. OF 40' R.
②	14+80.77	21.53' RT.	429.75	½ RAD. OF 40' R.
③	300+51.24	26.72' RT.	429.62	P.C.C. 40'R./300'R.
④	300+99.91	14.21' RT.	430.10	½ RAD. OF 300' R.
⑤	301+50.00	10.00' RT.	430.41	P.T. 300' R.



RADIUS POINT
STA. 301+50.00
310.00' RT.

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	21
STA 7+75.00		TO	STA. 81+35.00	
FEDERAL AID PROJECT		CONTRACT 97514		

N.W. QUADRANT

LOCATION	STATION	OFFSET TO E.O.P.	ELEVATION	DESCRIPTION
13	71+06.04	12.00' LT.	419.30	P.C. OF 35' R.
14	70+80.90	22.65' LT.	419.24	1/2 RAD. OF 35' R.
15	103+29.59	29.23' LT.	418.88	P.C.C. 35'R./120'R.
16	102+98.75	17.72' LT.	418.55	1/2 RAD. OF 120' R.
17	102+65.77	13.03' LT.	418.40	P.C.C. 120'R./600'R.
18	102+30.50	11.50' LT.	418.41	1/2 RAD. OF 600' R.
19	101+95.67	10.00' LT.	418.44	P.T. OF 600' R.

N.E. QUADRANT

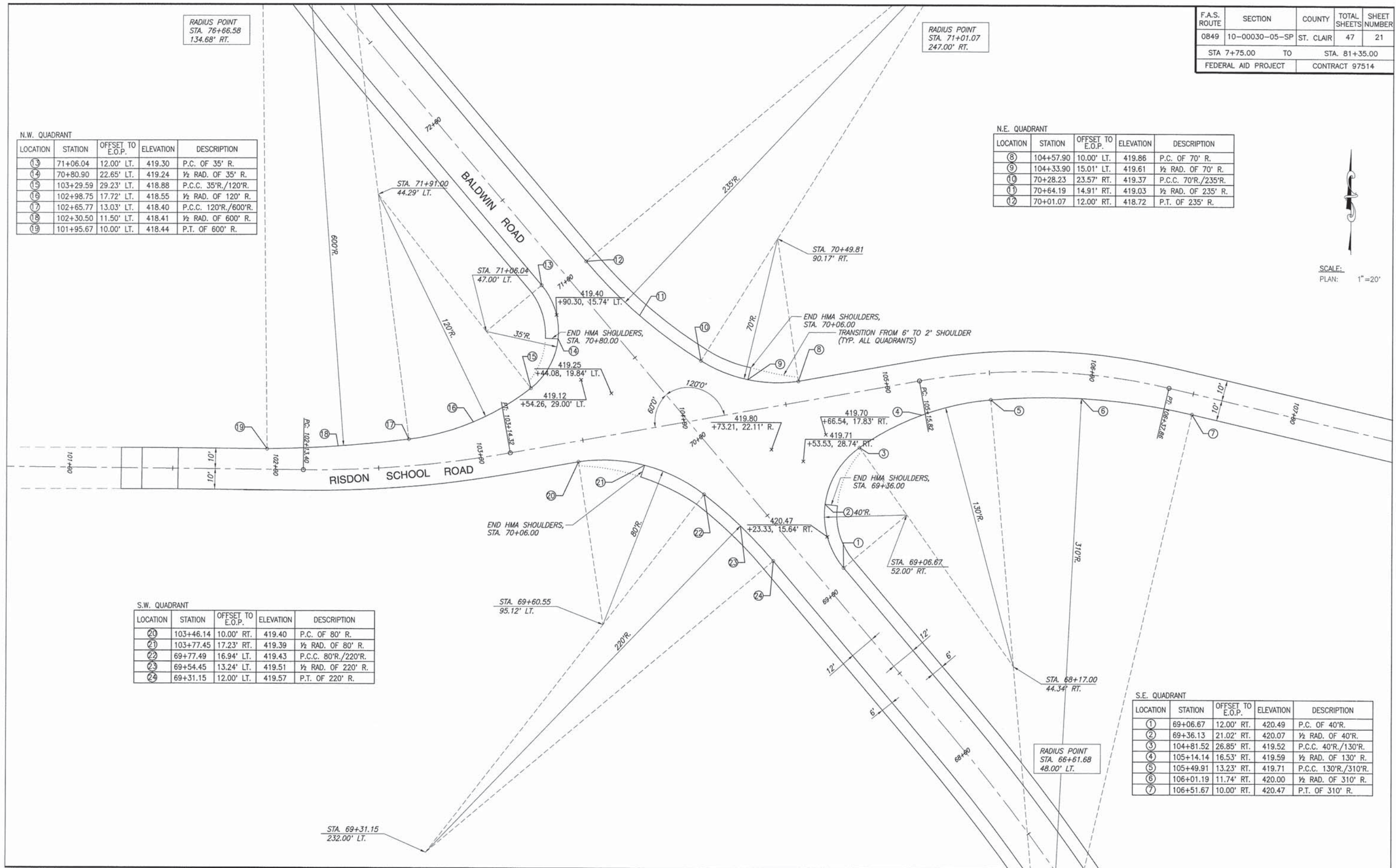
LOCATION	STATION	OFFSET TO E.O.P.	ELEVATION	DESCRIPTION
8	104+57.90	10.00' LT.	419.86	P.C. OF 70' R.
9	104+33.90	15.01' LT.	419.61	1/2 RAD. OF 70' R.
10	70+28.23	23.57' RT.	419.37	P.C.C. 70'R./235'R.
11	70+64.19	14.91' RT.	419.03	1/2 RAD. OF 235' R.
12	70+01.07	12.00' RT.	418.72	P.T. OF 235' R.

S.W. QUADRANT

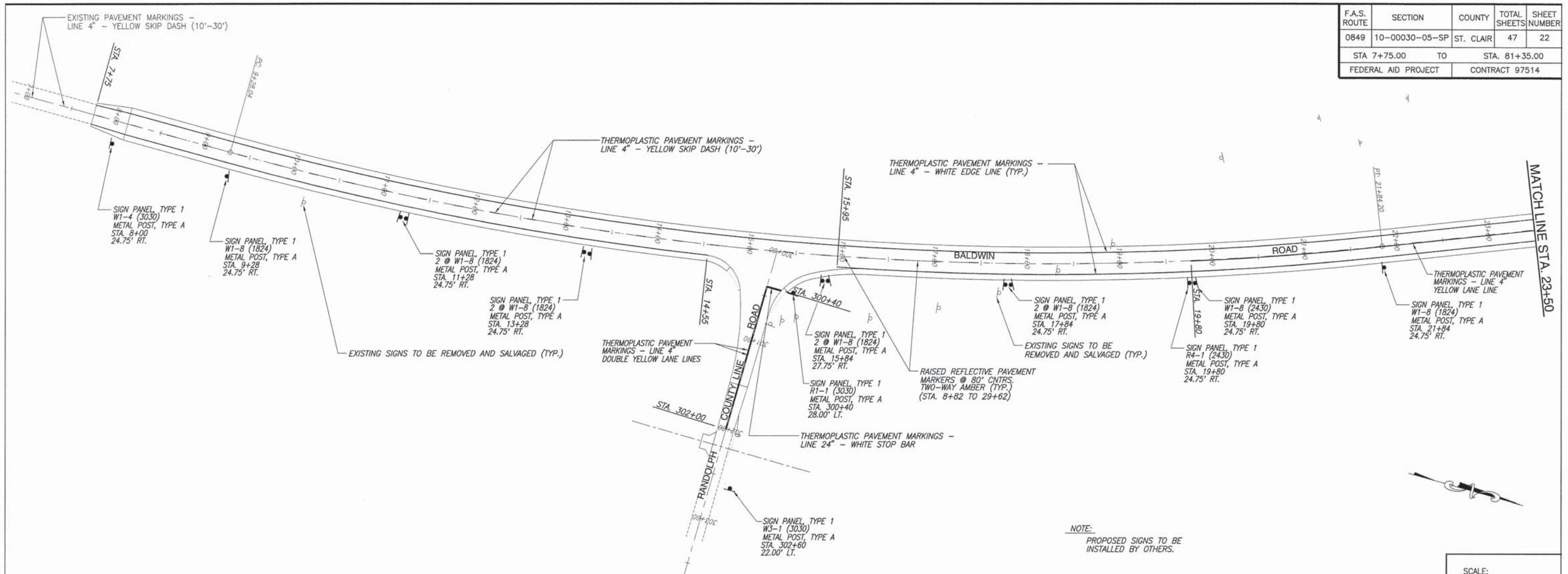
LOCATION	STATION	OFFSET TO E.O.P.	ELEVATION	DESCRIPTION
20	103+46.14	10.00' RT.	419.40	P.C. OF 80' R.
21	103+77.45	17.23' RT.	419.39	1/2 RAD. OF 80' R.
22	69+77.49	16.94' LT.	419.43	P.C.C. 80'R./220'R.
23	69+54.45	13.24' LT.	419.51	1/2 RAD. OF 220' R.
24	69+31.15	12.00' LT.	419.57	P.T. OF 220' R.

S.E. QUADRANT

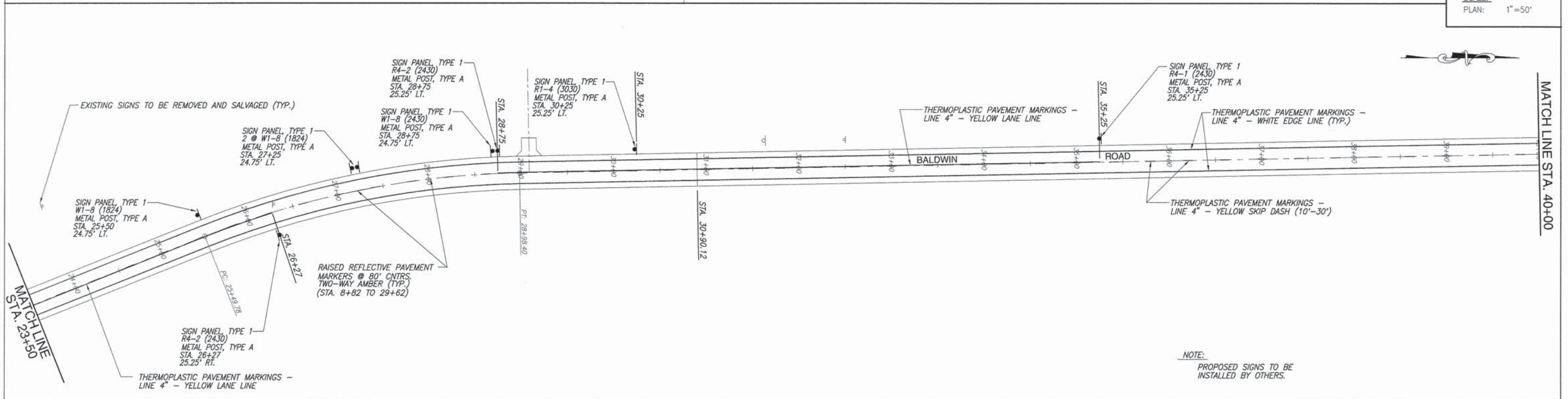
LOCATION	STATION	OFFSET TO E.O.P.	ELEVATION	DESCRIPTION
1	69+06.67	12.00' RT.	420.49	P.C. OF 40' R.
2	69+36.13	21.02' RT.	420.07	1/2 RAD. OF 40' R.
3	104+81.52	26.85' RT.	419.52	P.C.C. 40'R./130'R.
4	105+14.14	16.53' RT.	419.59	1/2 RAD. OF 130' R.
5	105+49.91	13.23' RT.	419.71	P.C.C. 130'R./310'R.
6	106+01.19	11.74' RT.	420.00	1/2 RAD. OF 310' R.
7	106+51.67	10.00' RT.	420.47	P.T. OF 310' R.



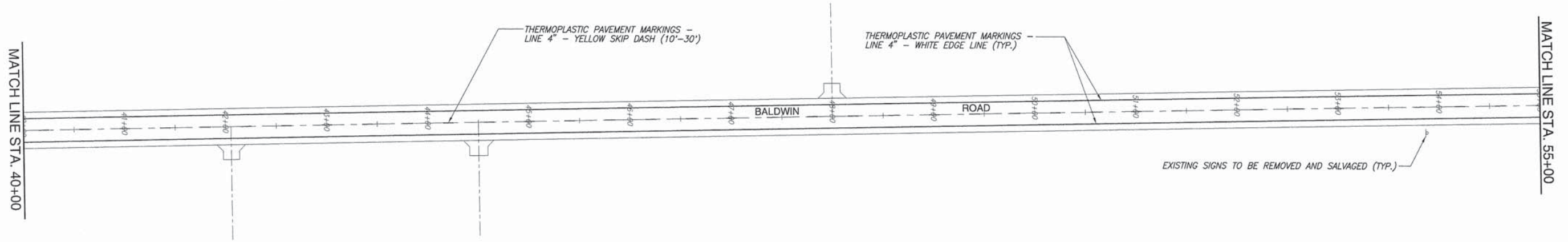
F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	22
STA 7+75.00 TO		STA. 81+35.00		
FEDERAL AID PROJECT		CONTRACT 97514		



SCALE:
PLAN: 1"=50'

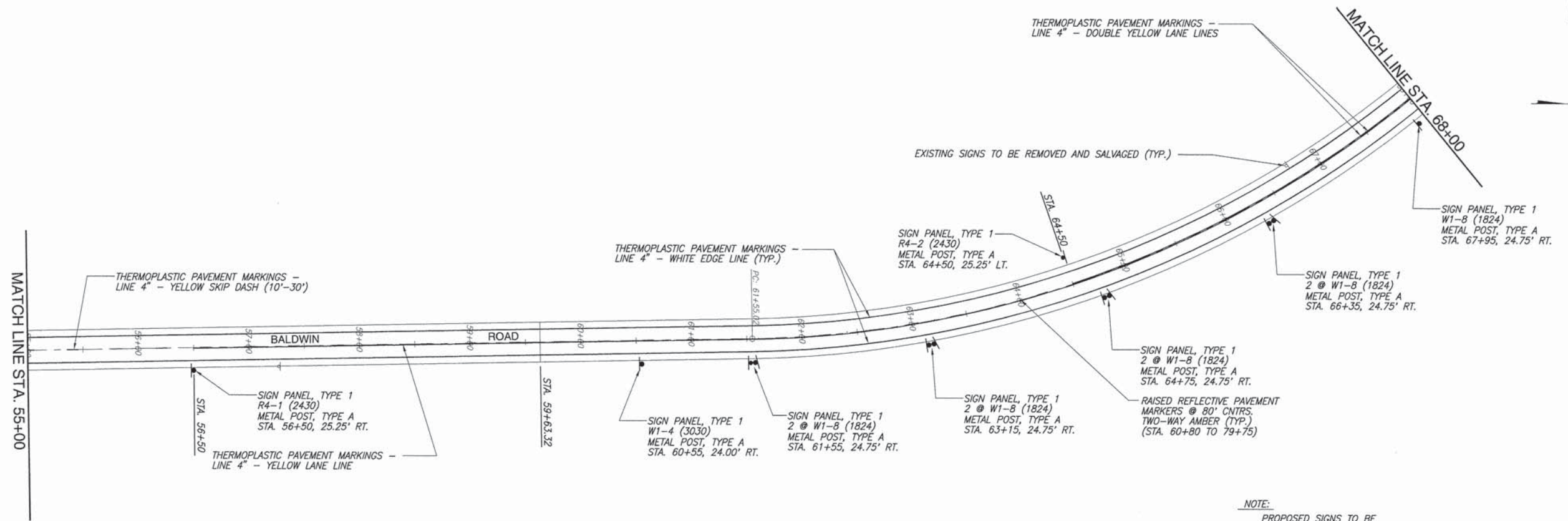


F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	23
STA 7+75.00 TO STA. 81+35.00		FEDERAL AID PROJECT CONTRACT 97514		



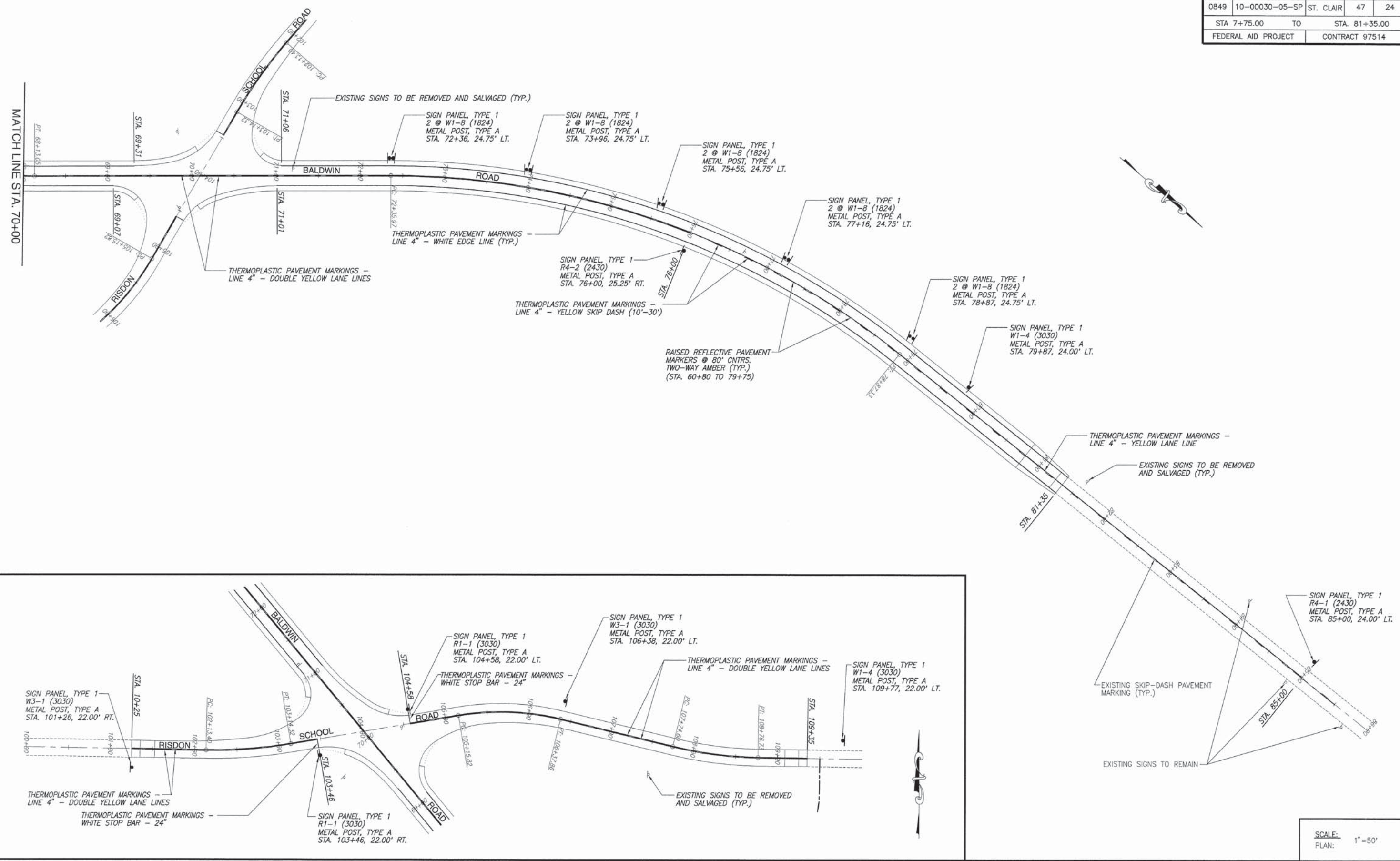
NOTE:
PROPOSED SIGNS TO BE
INSTALLED BY OTHERS.

SCALE:
PLAN: 1"=50'



NOTE:
PROPOSED SIGNS TO BE
INSTALLED BY OTHERS.

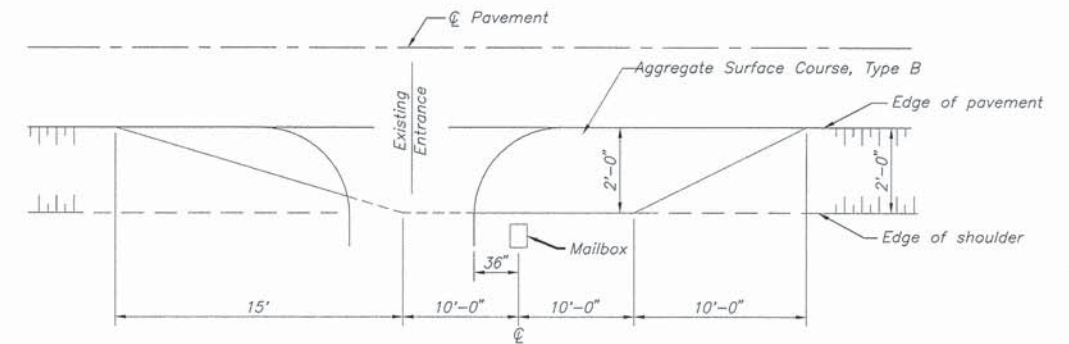
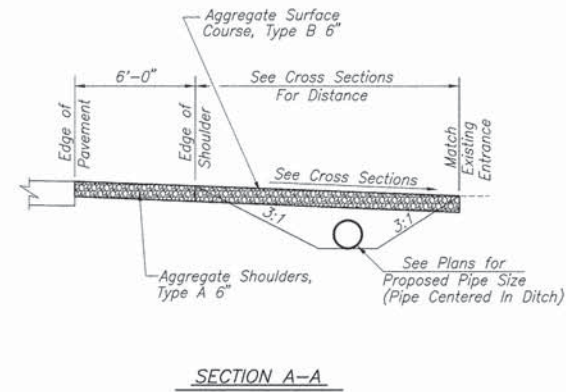
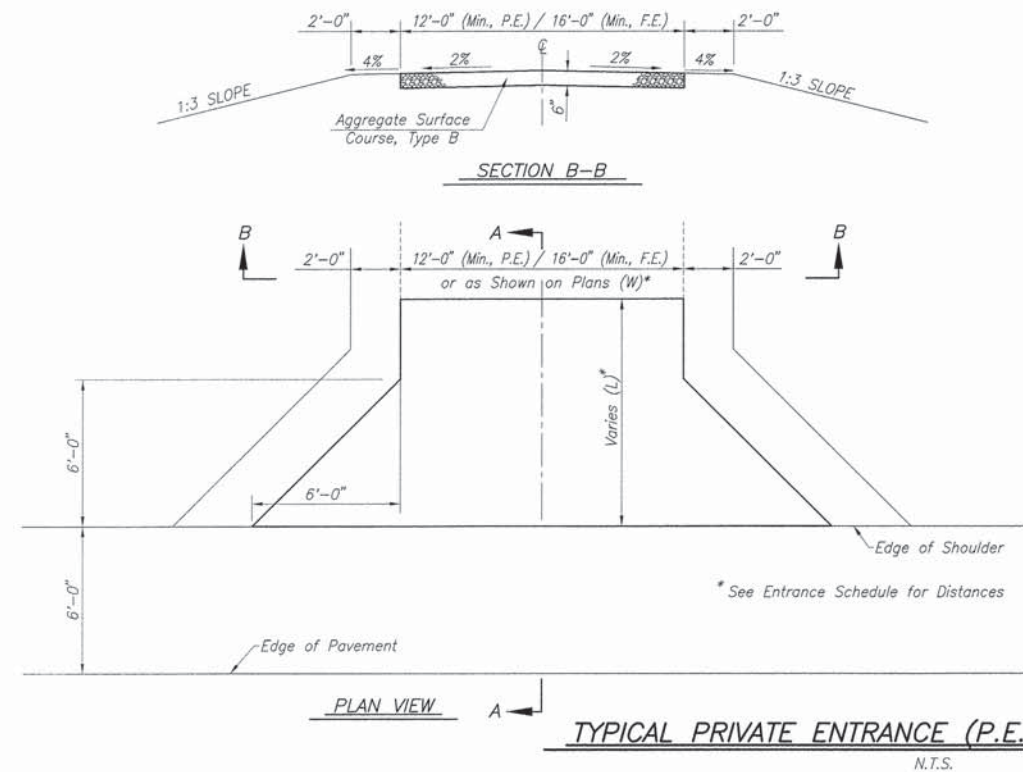
F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	24
STA 7+75.00 TO STA 81+35.00		FEDERAL AID PROJECT CONTRACT 97514		



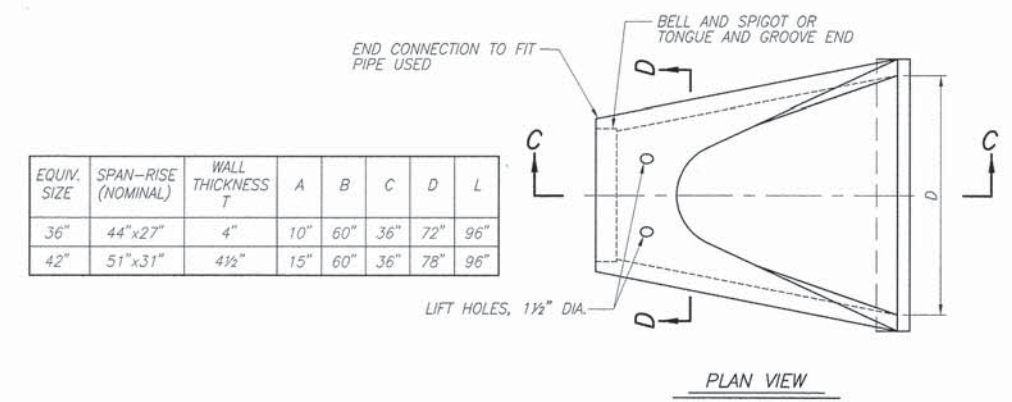
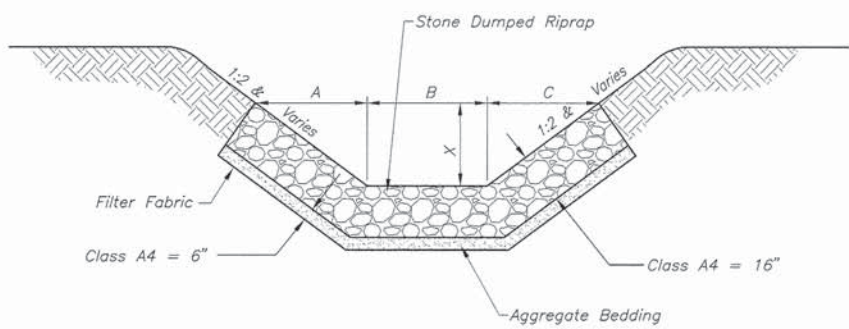
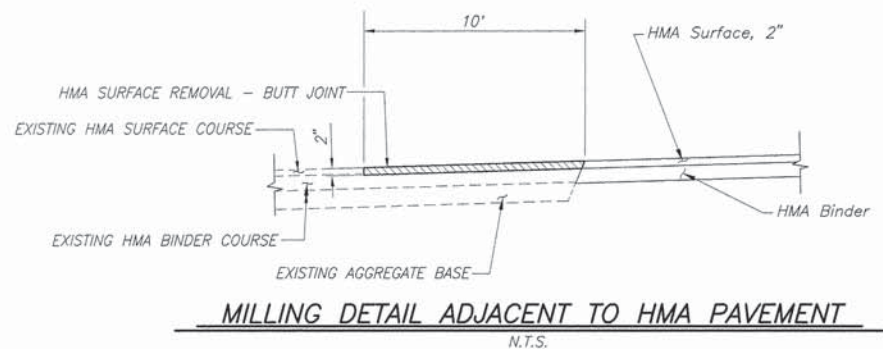
SCALE:
PLAN: 1"=50'

PAVEMENT MARKING & SIGNAGE BALDWIN ROAD IMPROVEMENTS
SECTION 10-00030-05-SP ST. CLAIR COUNTY ILLINOIS

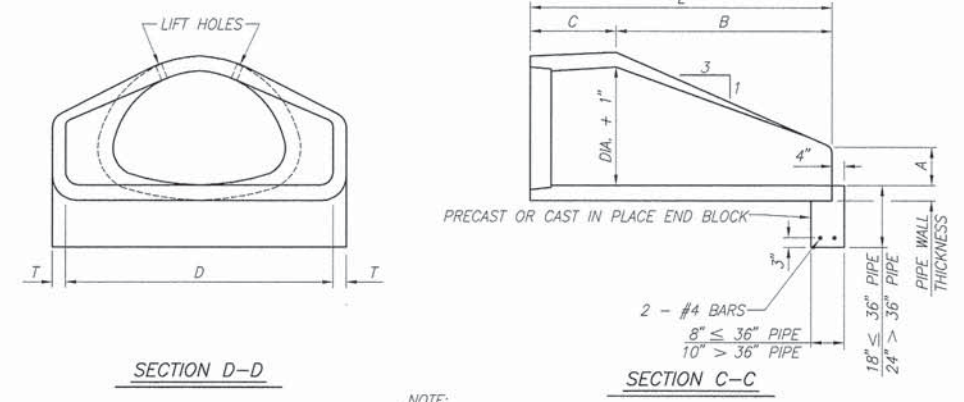
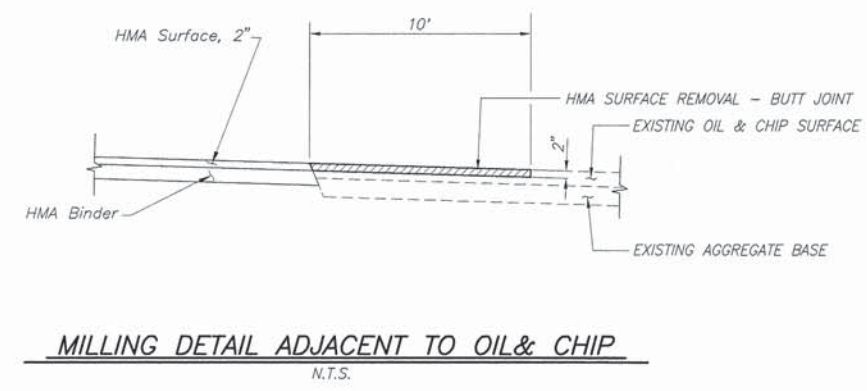
F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	25
STA 7+75.00 TO		STA. 81+35.00		
FEDERAL AID PROJECT		CONTRACT 97514		



GENERAL NOTES
Mailboxes shall be mounted such that the face of the mailbox is 6" to 12" and the post a minimum of 24" from the edge of the turnout surfacing. The cost for relocating mailboxes shall be included in the cost of the contract.



EQUIV. SIZE	SPAN-RISE (NOMINAL)	WALL THICKNESS T	A	B	C	D	L
36"	44"x27"	4"	10"	60"	36"	72"	96"
42"	51"x31"	4 1/2"	15"	60"	36"	78"	96"



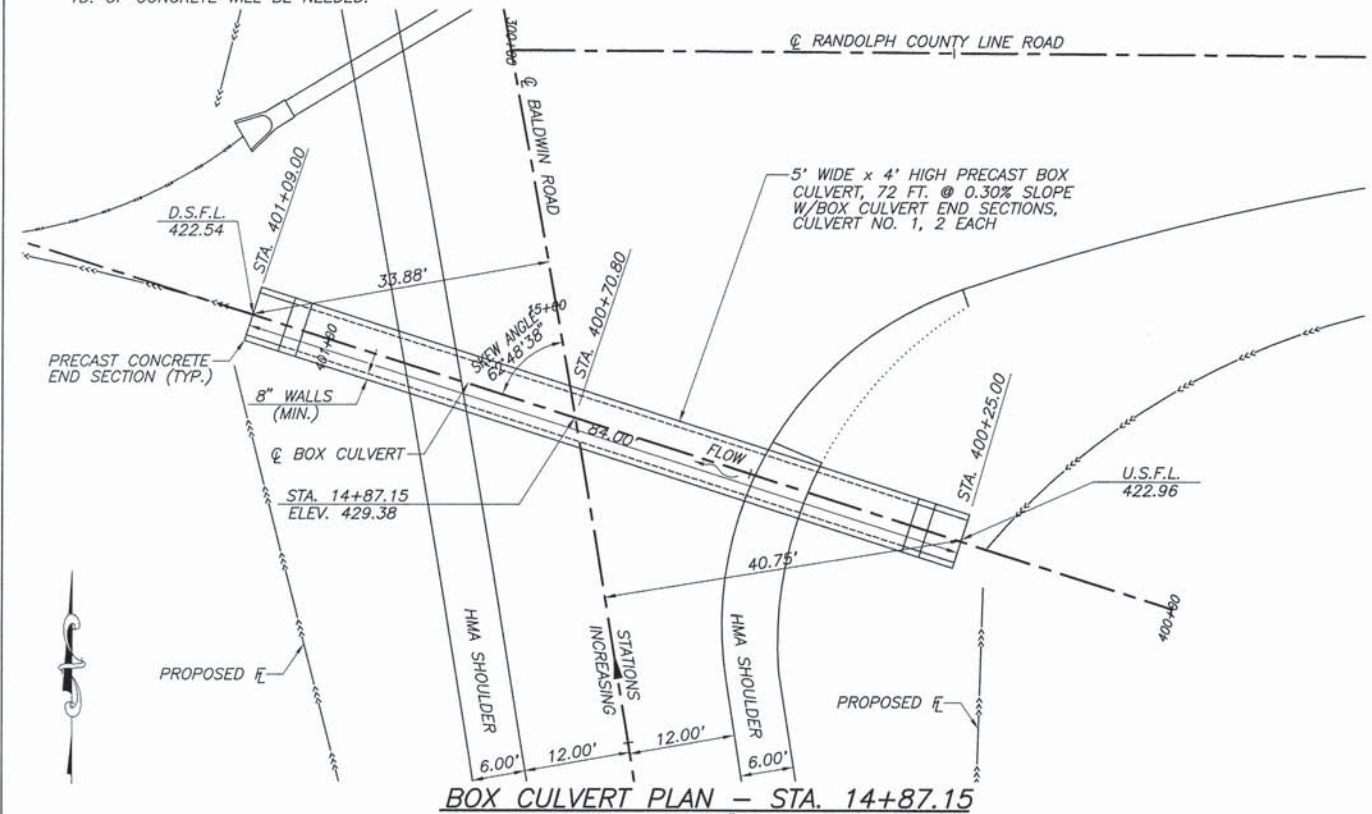
NOTE:
CLASS HE-II AS INNER AND OUTER CAGE REINFORCEMENT.

CONCRETE ARCH PIPE FLARED END SECTION
N.T.S.

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	26
STA 7+75.00 TO STA 81+35.00		FEDERAL AID PROJECT CONTRACT 97514		

EXISTING STRUCTURE: THE EXISTING STRUCTURE CONSISTS OF A 5'x4' CONCRETE CULVERT. THE EXISTING STRUCTURE SHALL BE REMOVED AND REPLACED WITH A PRECAST SINGLE BARREL 5'x4' PRECAST BOX CULVERT.

NOTES
 THIS BOX CULVERT HAS A MAX. FILL HEIGHT OF 2'-9". THE PRECAST BOX CULVERT SHALL BE DESIGNED IN ACCORDANCE WITH AASHTO M 259 EXCEPT THAT THE AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1003.02 AND 1004.02 OF THE STANDARD SPECIFICATIONS WITH EXCEPTION OF "GRADATION."
 THE LAYOUT OF SLOPE PROTECTION MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.
 THE CAST-IN-PLACE TOEWALL WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR "BOX CULVERTS END SECTION". APPROXIMATELY 1.4 CU. YD. OF CONCRETE WILL BE NEEDED.

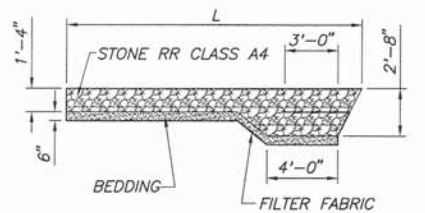


BOX CULVERT PLAN - STA. 14+87.15

SCALE: 1"=10'
 DIMENSIONS ARE GIVEN AT RT. ANGLES TO ROADWAY UNLESS OTHERWISE NOTED
 SEE CROSS SECTIONS FOR PROFILE & SECTION VIEW

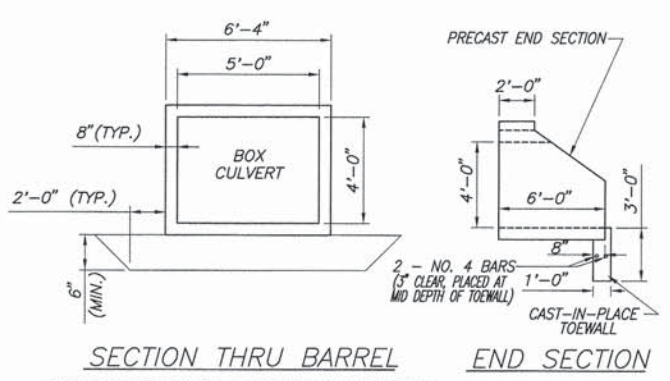
BILL OF MATERIAL

ITEM	UNIT	TOTAL
REMOVAL OF EXISTING STRUCTURE, NO. 1	EACH	1
TRENCH BACKFILL	CU. YD.	45
CHANNEL EXCAVATION	CU. YD.	177
STRUCTURE EXCAVATION	CU. YD.	350
BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2
PRECAST CONCRETE BOX CULVERT 5'x4'	FOOT	72
POROUS GRANULAR EMBANKMENT	CU. YD.	16



PLACED AT DOWN STREAM END OF BOX

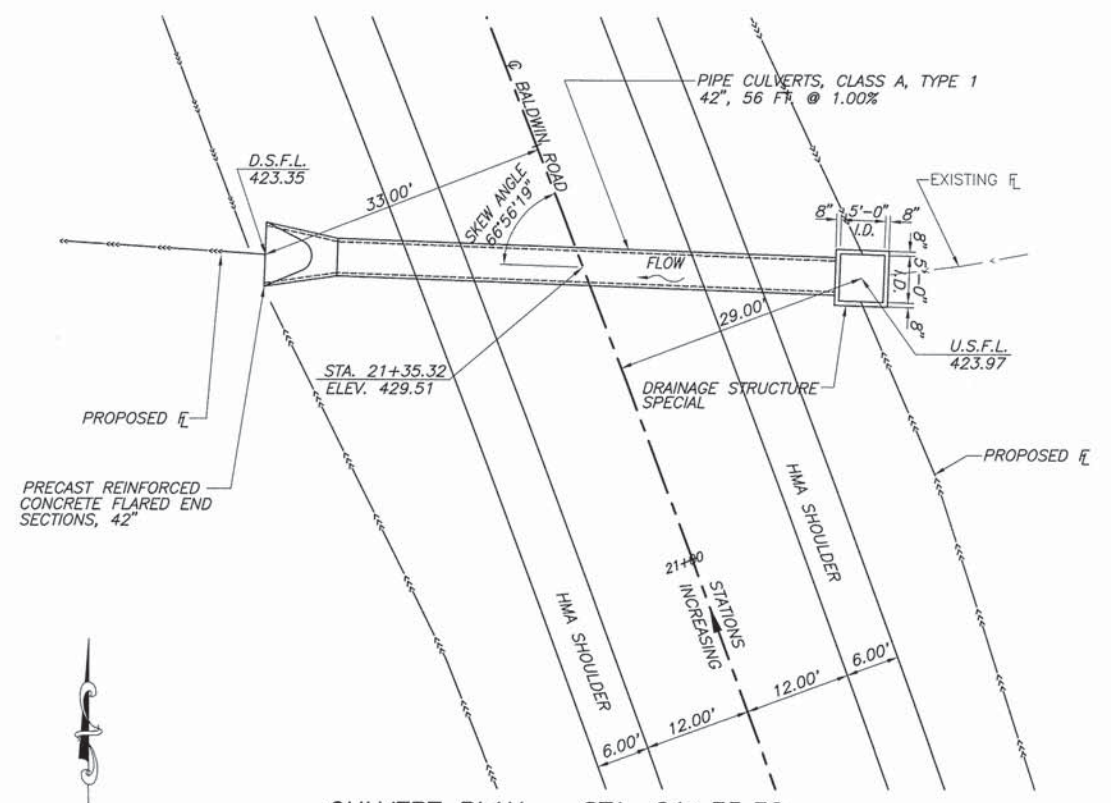
NOTE: SEE EROSION CONTROL PLAN & SCHEDULES FOR ADDITIONAL RIPRAP SIZES & DIMENSIONS



SECTION THRU BARREL **END SECTION**

REMOVE UNSUITABLE SOIL BELOW BOTTOM OF CULVERT TO ELEV. 422.00 AND 2 FT. OUTSIDE THE FOOTPRINT OF THE BOX. COST SHALL BE INCLUDED IN THE COST OF "STRUCTURE EXCAVATION". REPLACE WITH CA-7 OR CA-11 "POROUS GRANULAR EMBANKMENT."

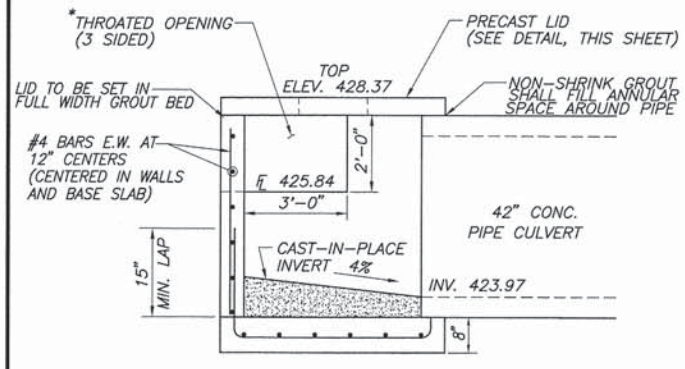
NOTE: SEE EROSION CONTROL PLAN & SCHEDULES FOR RIPRAP SIZES & DIMENSIONS



CULVERT PLAN - STA. 21+35.32

SCALE: 1"=10'
 DIMENSIONS ARE GIVEN AT RT. ANGLES TO ROADWAY UNLESS OTHERWISE NOTED
 SEE CROSS SECTIONS FOR PROFILE VIEW

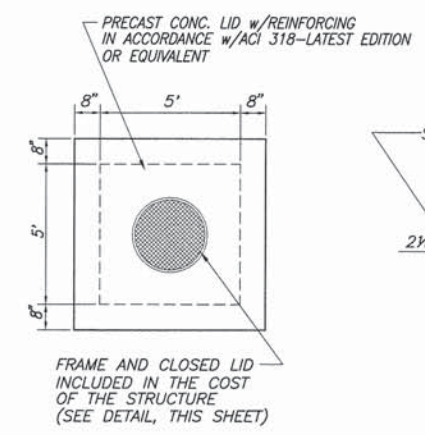
* OPENING TO BE CENTERED ON SIDE OPPOSITE PIPE



SECTIONAL VIEW

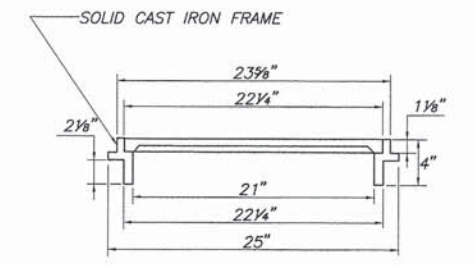
DRAINAGE STRUCTURE SPECIAL DETAIL

N.T.S.



PRECAST LID DETAIL

N.T.S.



FRAME AND CLOSED LID

N.T.S.

NOTE: ALL ITEMS SHOWN IN THE DETAILS ARE INCLUDED IN THE COST OF DRAINAGE STRUCTURE SPECIAL.

EXISTING STRUCTURE: THE EXISTING STRUCTURE CONSISTS OF A 8'x2' CONCRETE CULVERT. THE EXISTING STRUCTURE SHALL BE REMOVED AND REPLACED WITH A PRECAST DOUBLE BARREL 4'x2' PRECAST BOX CULVERT.

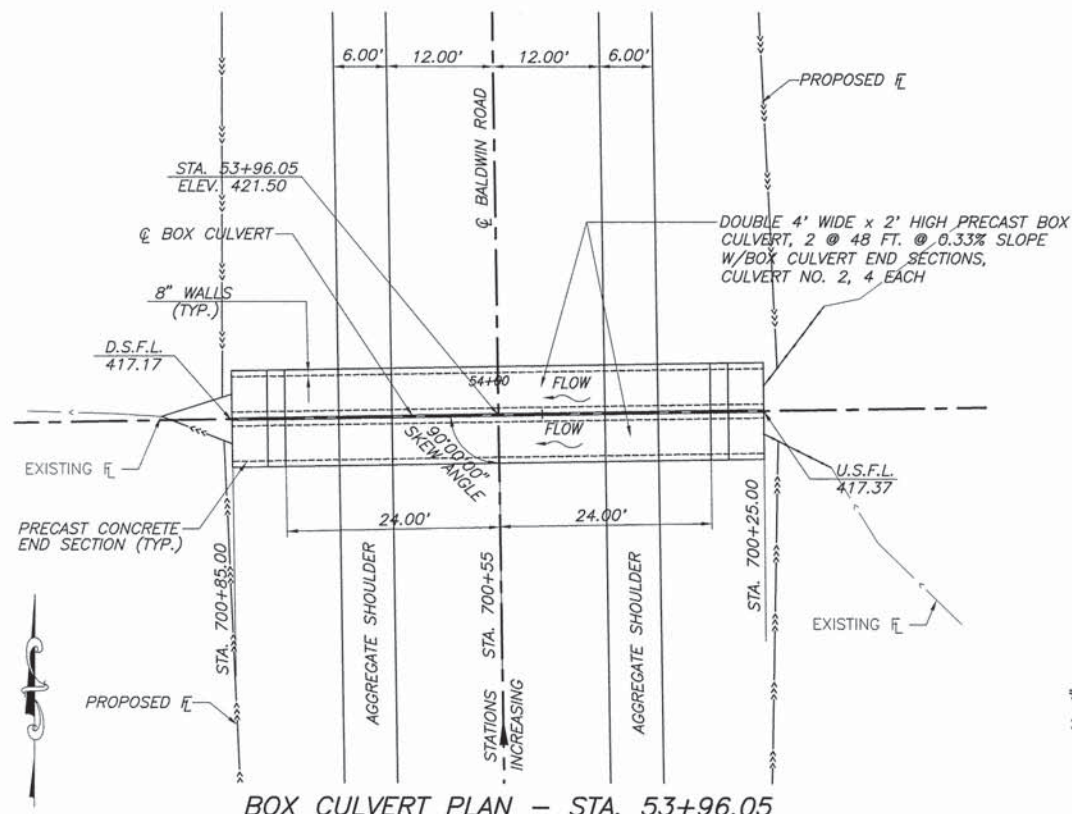
NOTES

THIS BOX CULVERT HAS A FILL HEIGHT OF 1'-6". THE PRECAST BOX CULVERT SHALL BE DESIGNED IN ACCORDANCE WITH AASHTO M 273 EXCEPT THAT THE AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1003.02 AND 1004.02 OF THE STANDARD SPECIFICATIONS WITH EXCEPTION OF "GRADATION."

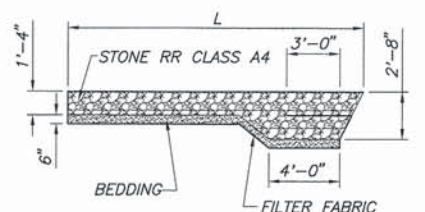
THE LAYOUT OF SLOPE PROTECTION MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

THE CAST-IN-PLACE TOEWALL WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR "BOX CULVERTS END SECTION". APPROXIMATELY 2.4 CU. YD. OF CONCRETE WILL BE NEEDED.

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	27
STA 7+75.00 TO		STA. 81+35.00		
FEDERAL AID PROJECT		CONTRACT 97514		



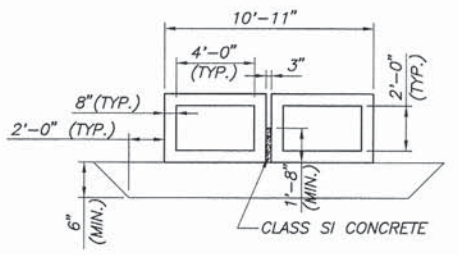
BOX CULVERT PLAN - STA. 53+96.05
 SCALE: 1"=10'
 DIMENSIONS ARE GIVEN AT RT. ANGLES TO ROADWAY UNLESS OTHERWISE NOTED
 SEE CROSS SECTIONS FOR PROFILE & SECTION VIEWS



PLACED AT DOWN STREAM END OF BOX
 NOTE: SEE EROSION CONTROL PLAN & SCHEDULES FOR ADDITIONAL RIPRAP SIZES & DIMENSIONS

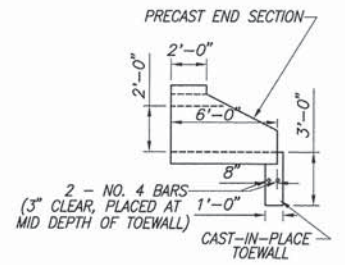
BILL OF MATERIAL

ITEM	UNIT	TOTAL
REMOVAL OF EXISTING STRUCTURES	EACH	1
CHANNEL EXCAVATION	CU. YD.	8
STRUCTURE EXCAVATION	CU. YD.	88
BOX CULVERT END SECTIONS, CULVERT, NO. 2	EACH	4
PRECAST CONCRETE BOX CULVERT 4'X2'	FOOT	96
POROUS GRANULAR EMBANKMENT	CU. YD.	13



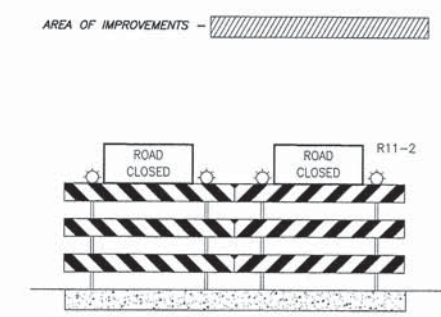
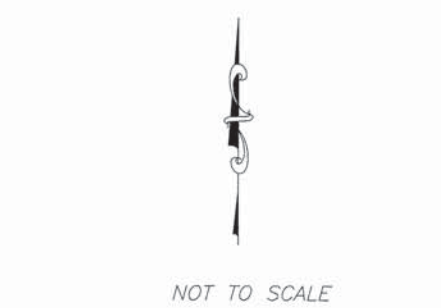
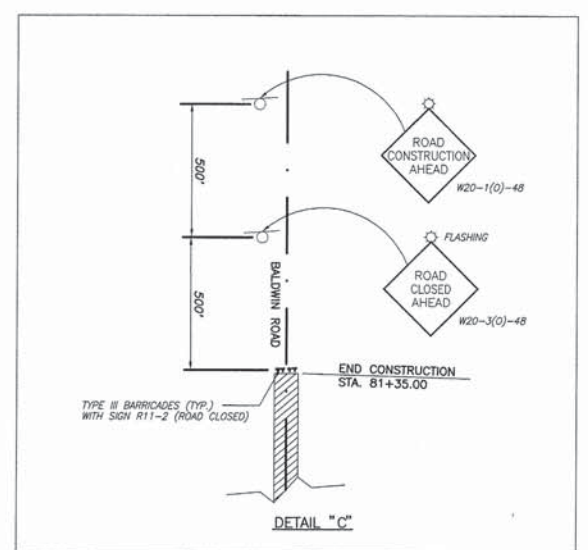
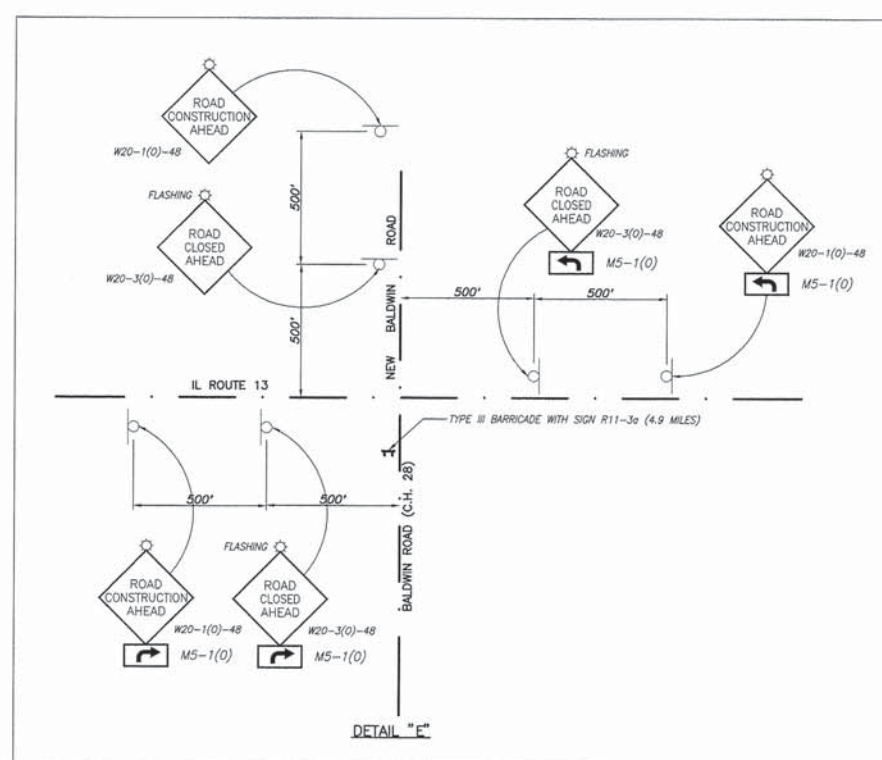
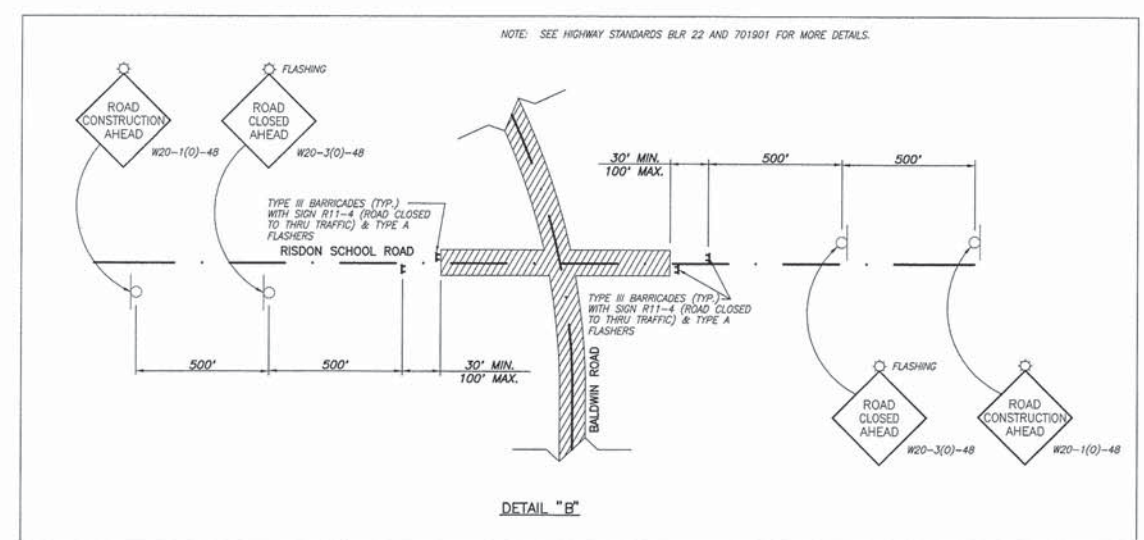
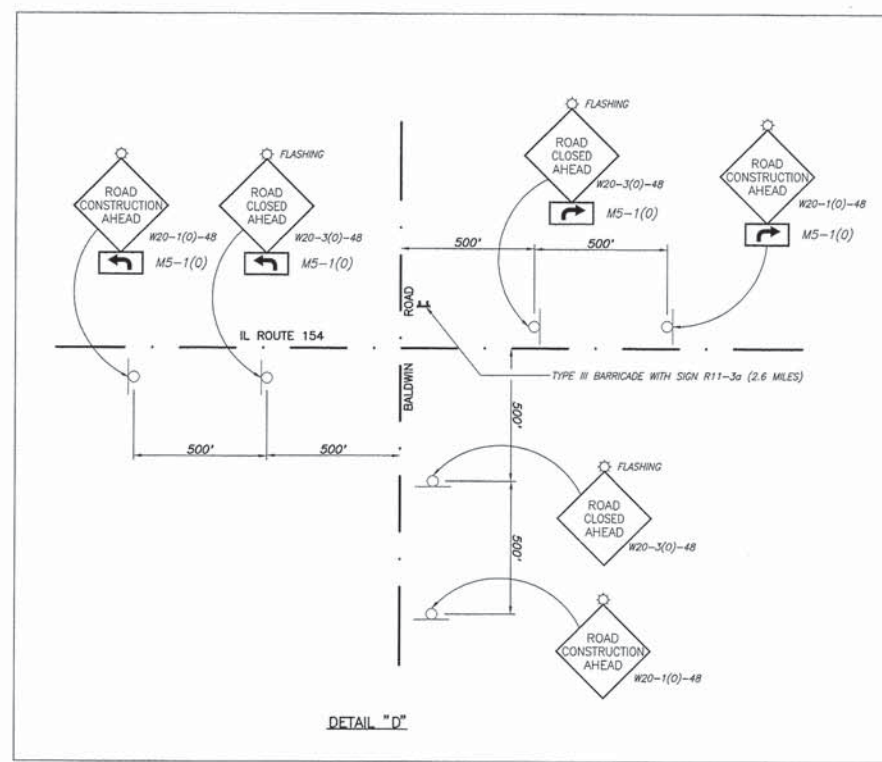
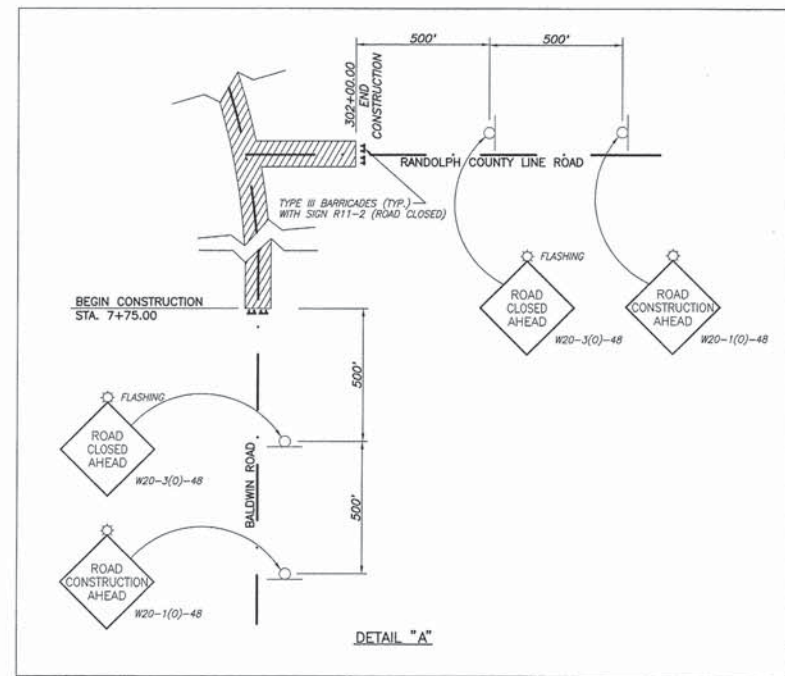
SECTION THRU BARREL

REMOVE UNSUITABLE SOIL BELOW BOTTOM OF CULVERT TO ELEV. 416.67 AND 2 FT. OUTSIDE THE FOOTPRINT OF THE BOX. COST SHALL BE INCLUDED IN THE COST OF "CHANNEL EXCAVATION". REPLACE WITH CA-7 OR CA-11 "POROUS GRANULAR EMBANKMENT."



END SECTION

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	29
STA 7+75.00		TO	STA. 81+35.00	
FEDERAL AID PROJECT		CONTRACT 97514		



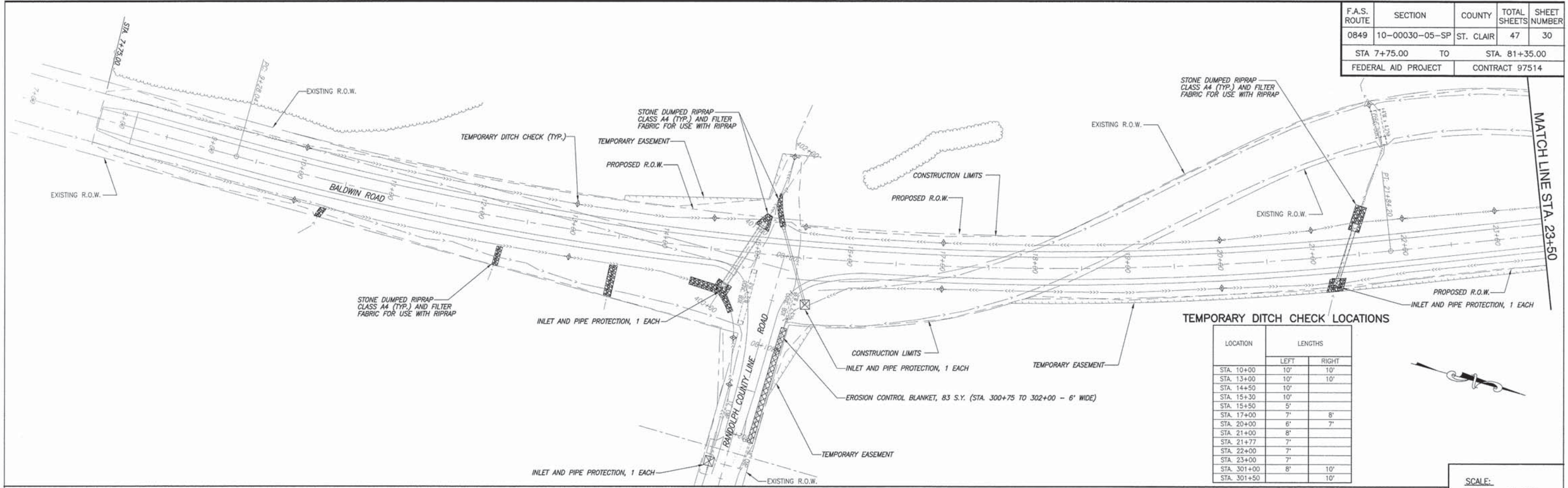
TYPE III BARRICADE (ROAD CLOSED)
TYPE III BARRICADES WITH STANDARD SIGN R11-2 MOUNTED AS SHOWN. PLACED AT THE LOCATIONS AS SHOWN.



TYPE III BARRICADE (ROAD CLOSED)
TYPE III BARRICADES WITH STANDARD SIGN R11-3a MOUNTED AS SHOWN. * PLACED AT THE LOCATIONS AS SHOWN WITH "MILES" AS NOTED.

NOTE:
MINIMUM OF 4 SANDBAGS SHOULD BE USED TO ANCHOR ALL NON-PERMANENT SIGNS AND BARRICADES.

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	30
STA 7+75.00 TO		STA. 81+35.00		
FEDERAL AID PROJECT		CONTRACT 97514		



TEMPORARY DITCH CHECK LOCATIONS

LOCATION	LENGTHS	
	LEFT	RIGHT
STA. 10+00	10'	10'
STA. 13+00	10'	10'
STA. 14+50	10'	
STA. 15+30	10'	
STA. 15+50	5'	
STA. 17+00	7'	8'
STA. 20+00	6'	7'
STA. 21+00	8'	
STA. 21+77	7'	
STA. 22+00	7'	
STA. 23+00	7'	
STA. 301+00	8'	10'
STA. 301+50		10'

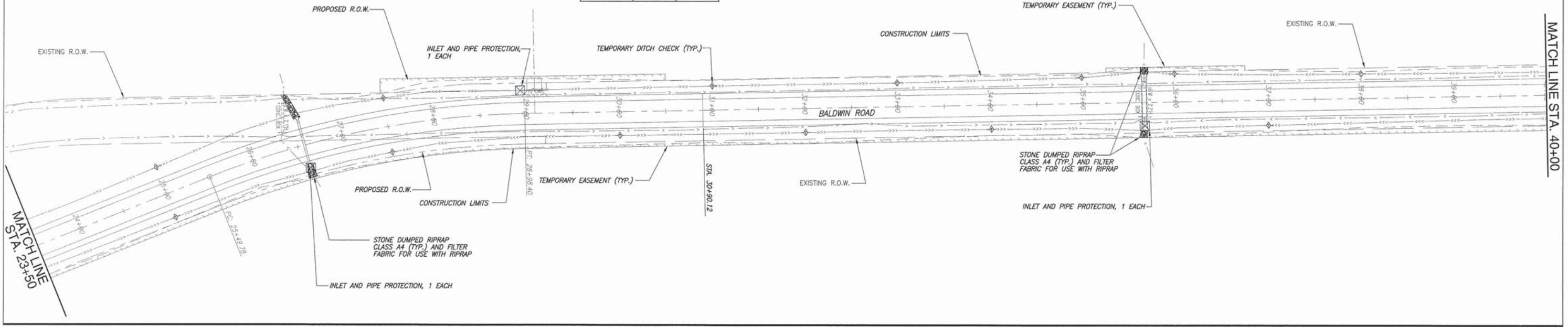
SCALE:
PLAN: 1"=50'

TEMPORARY DITCH CHECK LOCATIONS

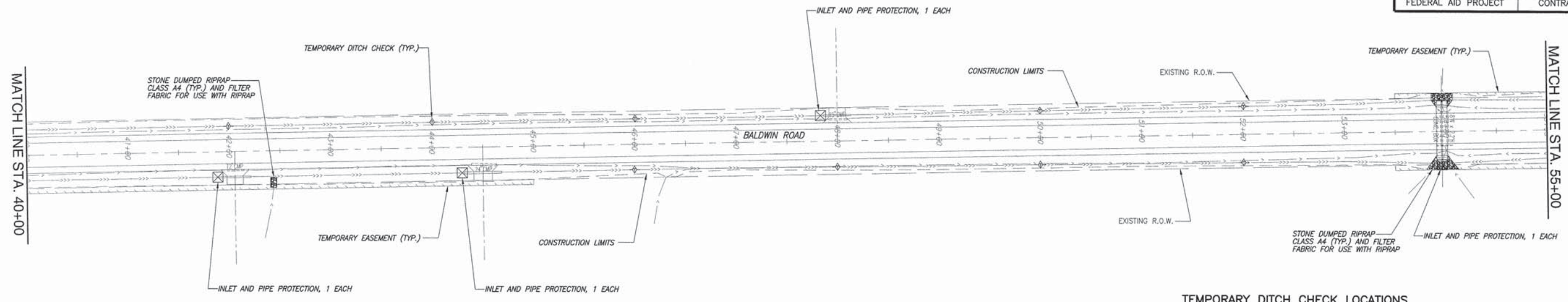
LOCATION	LENGTHS	
	LEFT	RIGHT
STA. 25+00	6'	7'
STA. 27+50	9'	7'
STA. 30+00		6'

TEMPORARY DITCH CHECK LOCATIONS

LOCATION	LENGTHS	
	LEFT	RIGHT
STA. 31+00	7'	
STA. 32+00		7'
STA. 33+00	7'	
STA. 34+00		7'
STA. 35+00	5'	
STA. 36+00	7'	
STA. 37+00		7'
STA. 38+00	4'	



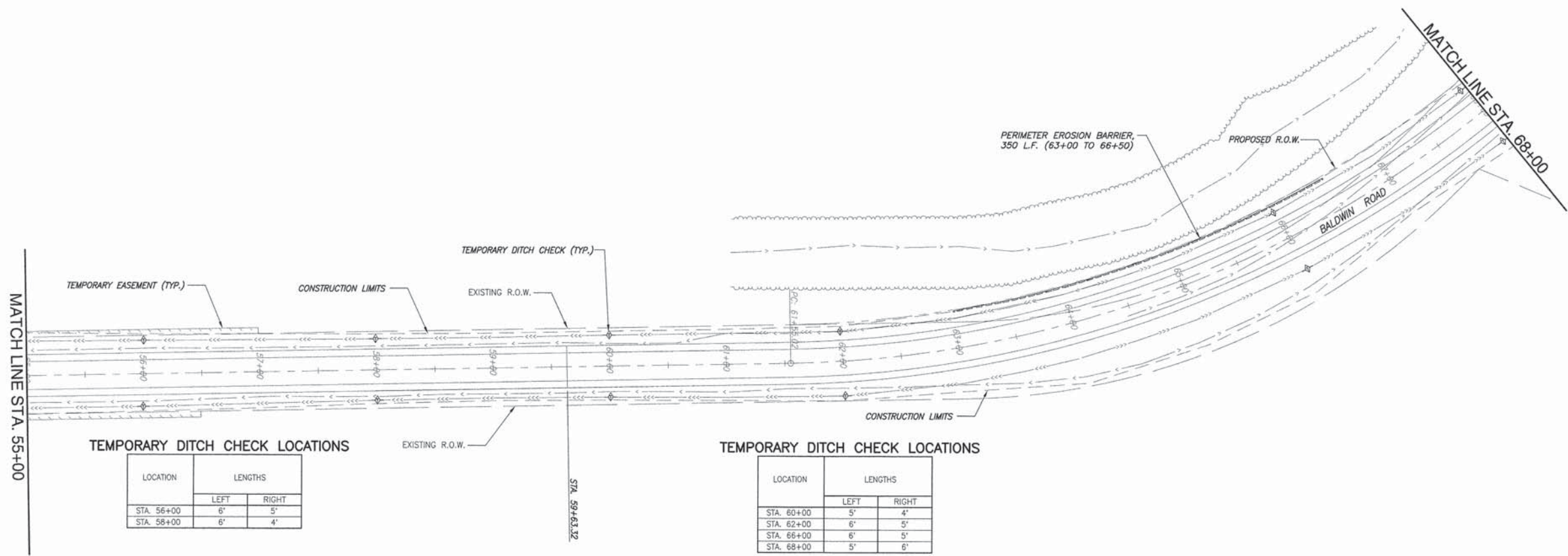
F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	31
STA 7+75.00		TO	STA. 81+35.00	
FEDERAL AID PROJECT			CONTRACT 97514	



TEMPORARY DITCH CHECK LOCATIONS

LOCATION	LENGTHS	
	LEFT	RIGHT
STA. 42+00	6'	
STA. 44+00	5'	
STA. 46+00	6'	6'
STA. 48+00	5'	5'
STA. 50+00	5'	4'
STA. 52+00	5'	5'
STA. 53+95	12'	

SCALE:
PLAN: 1"=50'



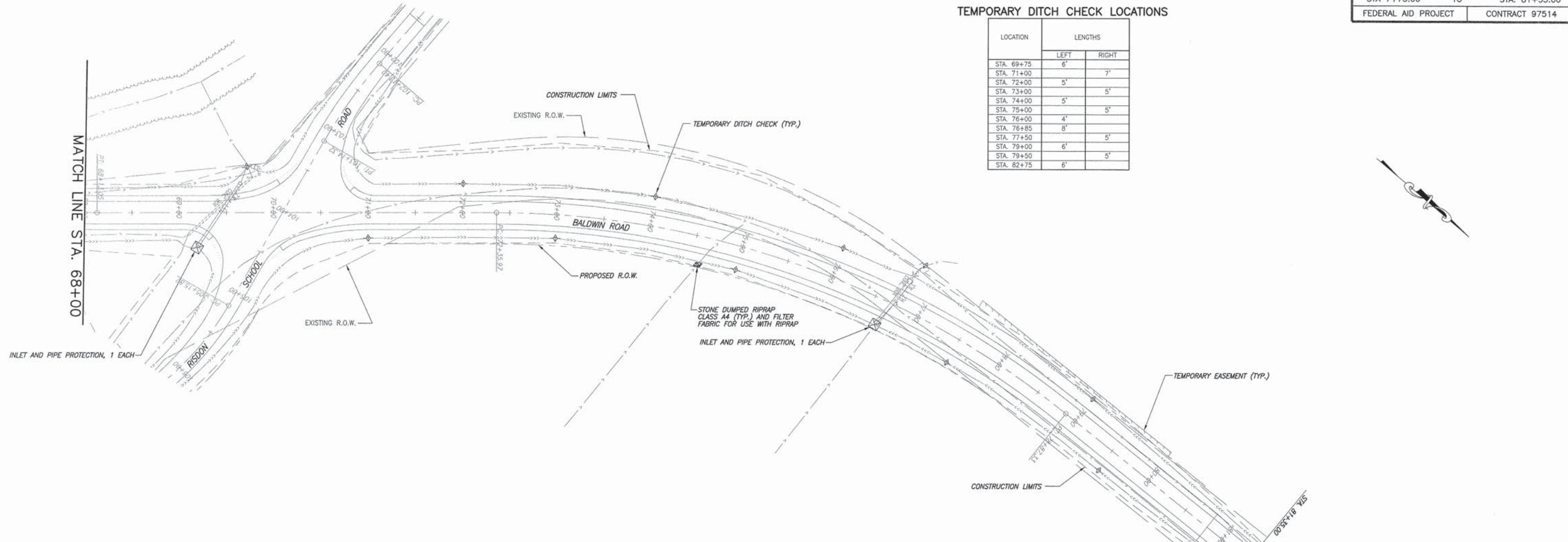
TEMPORARY DITCH CHECK LOCATIONS

LOCATION	LENGTHS	
	LEFT	RIGHT
STA. 56+00	6'	5'
STA. 58+00	6'	4'

TEMPORARY DITCH CHECK LOCATIONS

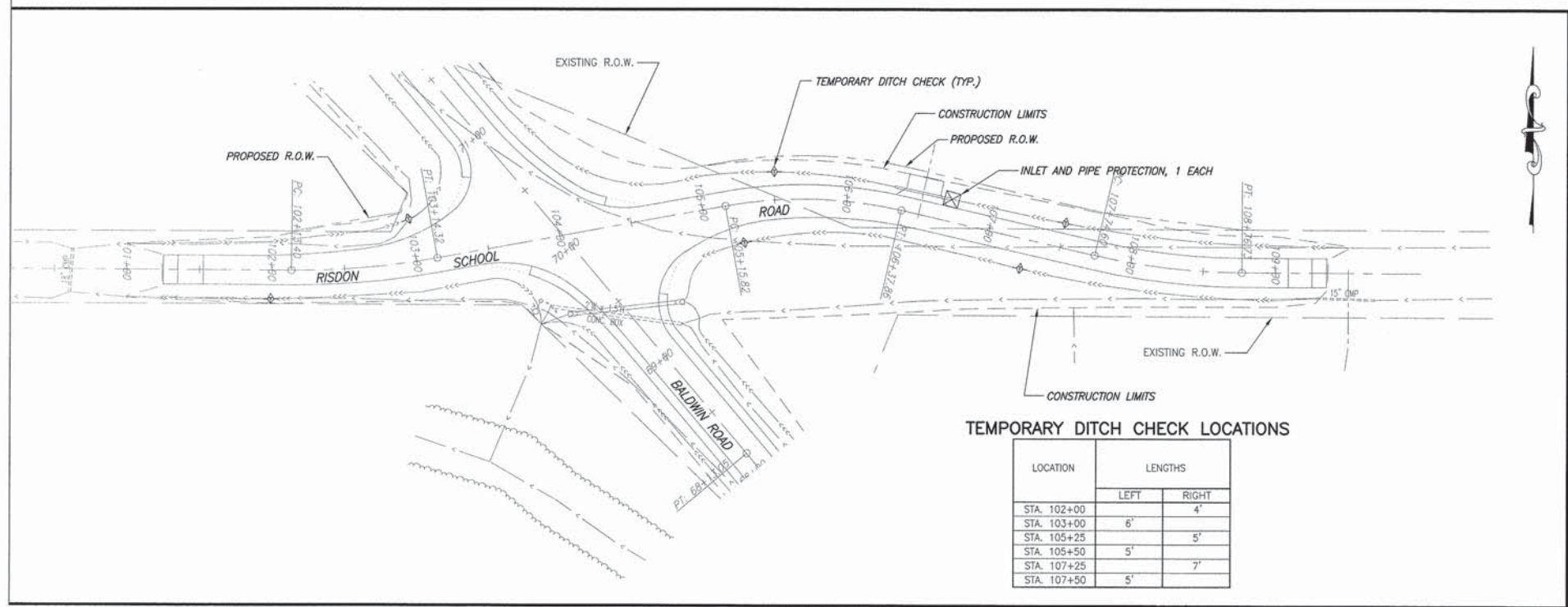
LOCATION	LENGTHS	
	LEFT	RIGHT
STA. 60+00	5'	4'
STA. 62+00	6'	5'
STA. 66+00	6'	5'
STA. 68+00	5'	6'

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	32
STA 7+75.00		TO	STA. 81+35.00	
FEDERAL AID PROJECT		CONTRACT 97514		



TEMPORARY DITCH CHECK LOCATIONS

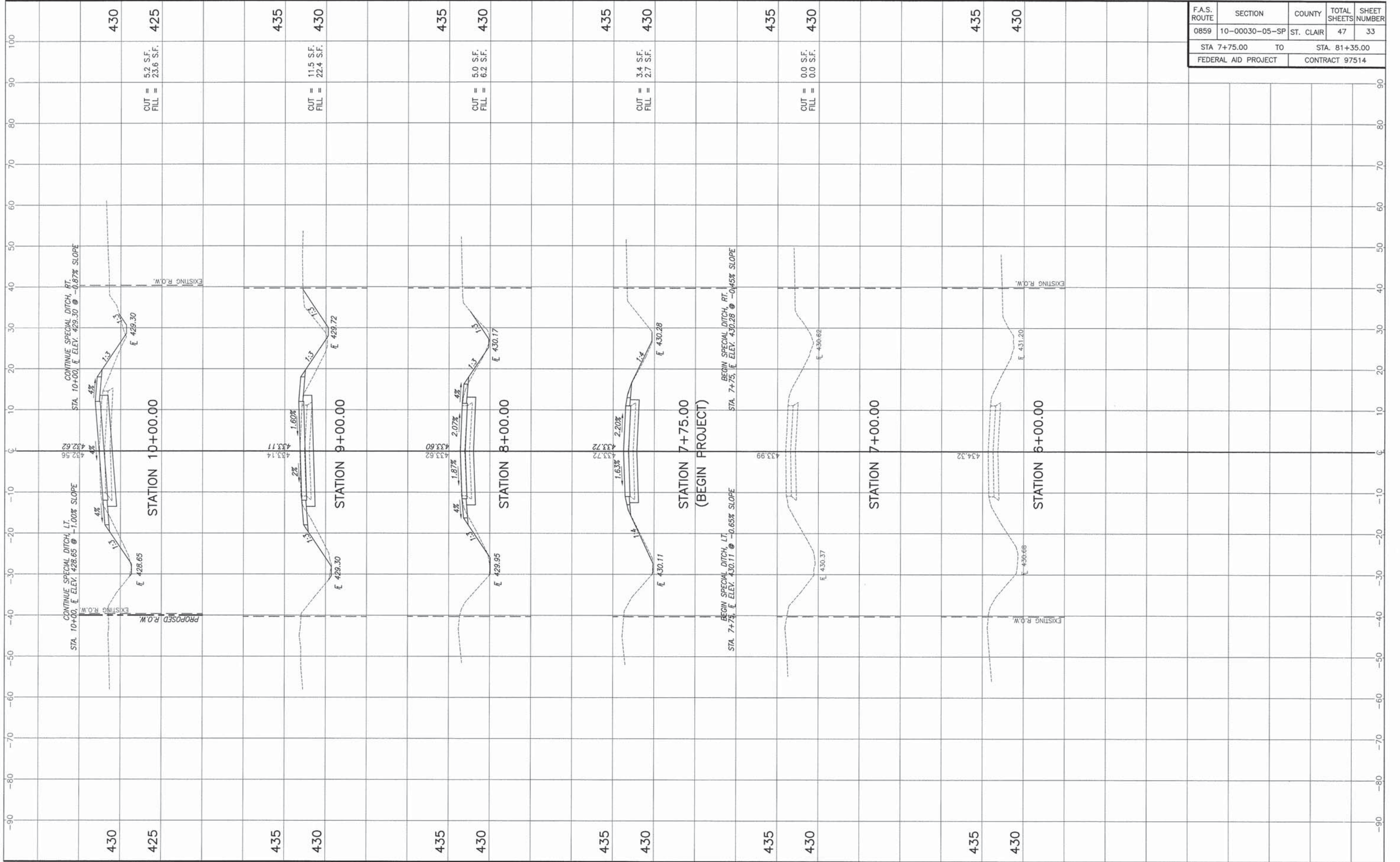
LOCATION	LENGTHS	
	LEFT	RIGHT
STA. 69+75	6'	
STA. 71+00	6'	7'
STA. 72+00	5'	
STA. 73+00		5'
STA. 74+00	5'	
STA. 75+00		5'
STA. 76+00	4'	
STA. 76+85	8'	
STA. 77+50		5'
STA. 79+00	6'	
STA. 79+50		5'
STA. 82+75	6'	



TEMPORARY DITCH CHECK LOCATIONS

LOCATION	LENGTHS	
	LEFT	RIGHT
STA. 102+00		4'
STA. 103+00	6'	
STA. 105+25		5'
STA. 105+50	5'	
STA. 107+25		7'
STA. 107+50	5'	

SCALE: 1"=50'
PLAN:



F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0859	10-00030-05-SP	ST. CLAIR	47	33
STA 7+75.00		TO	STA. 81+35.00	
FEDERAL AID PROJECT		CONTRACT 97514		

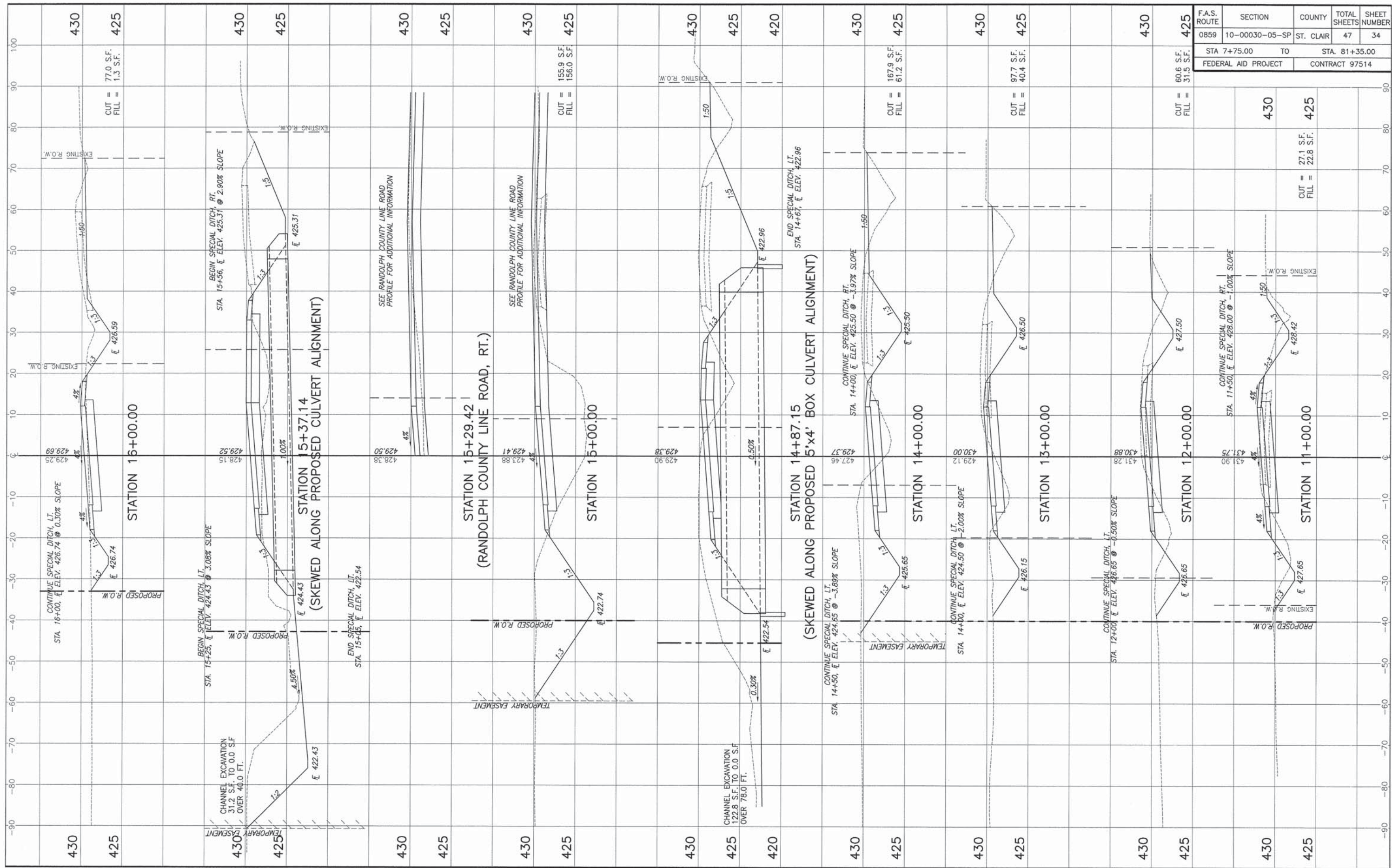
CUT = 5.2 S.F.
FILL = 23.6 S.F.

CUT = 11.5 S.F.
FILL = 22.4 S.F.

CUT = 5.0 S.F.
FILL = 6.2 S.F.

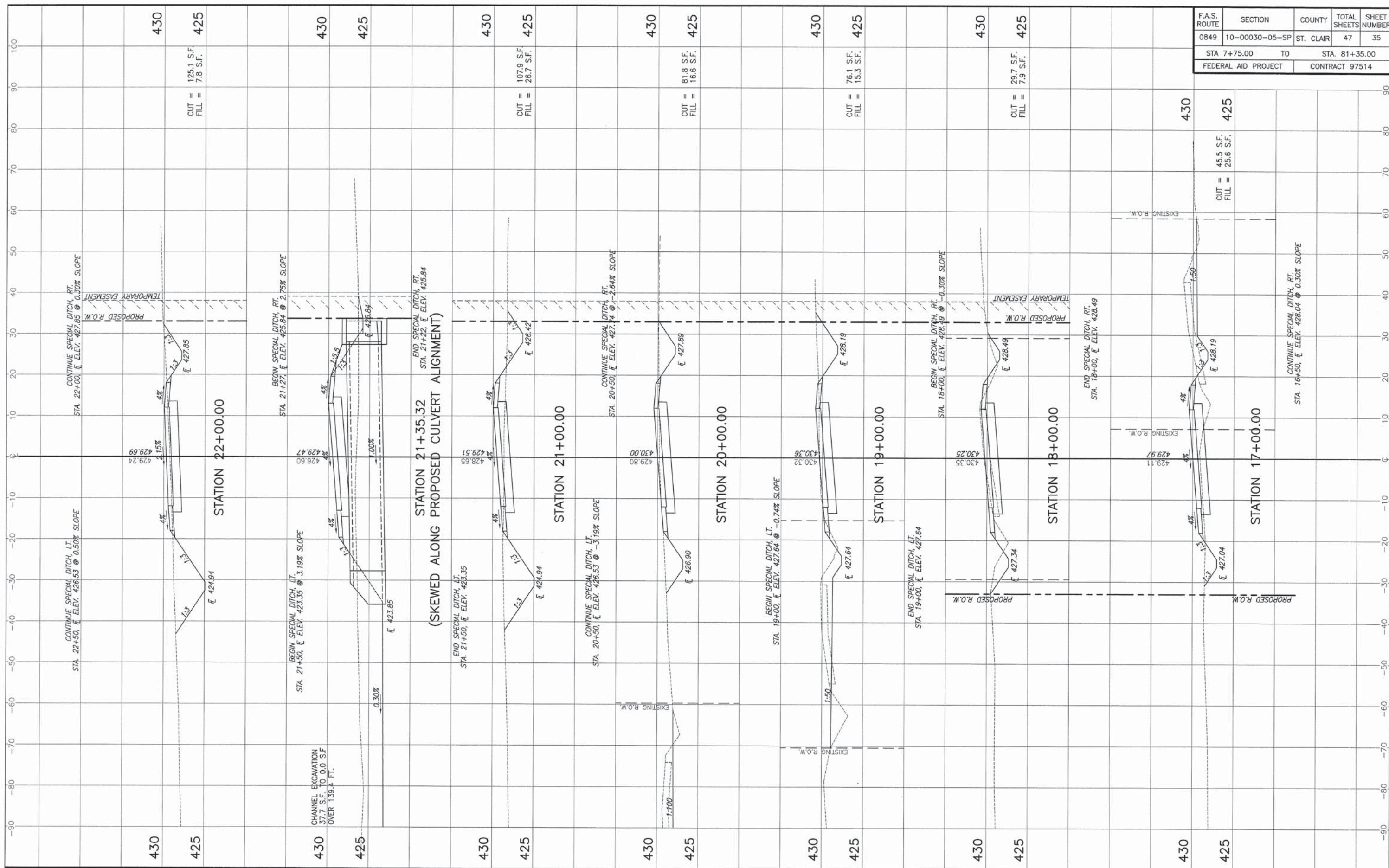
CUT = 3.4 S.F.
FILL = 2.7 S.F.

CUT = 0.0 S.F.
FILL = 0.0 S.F.

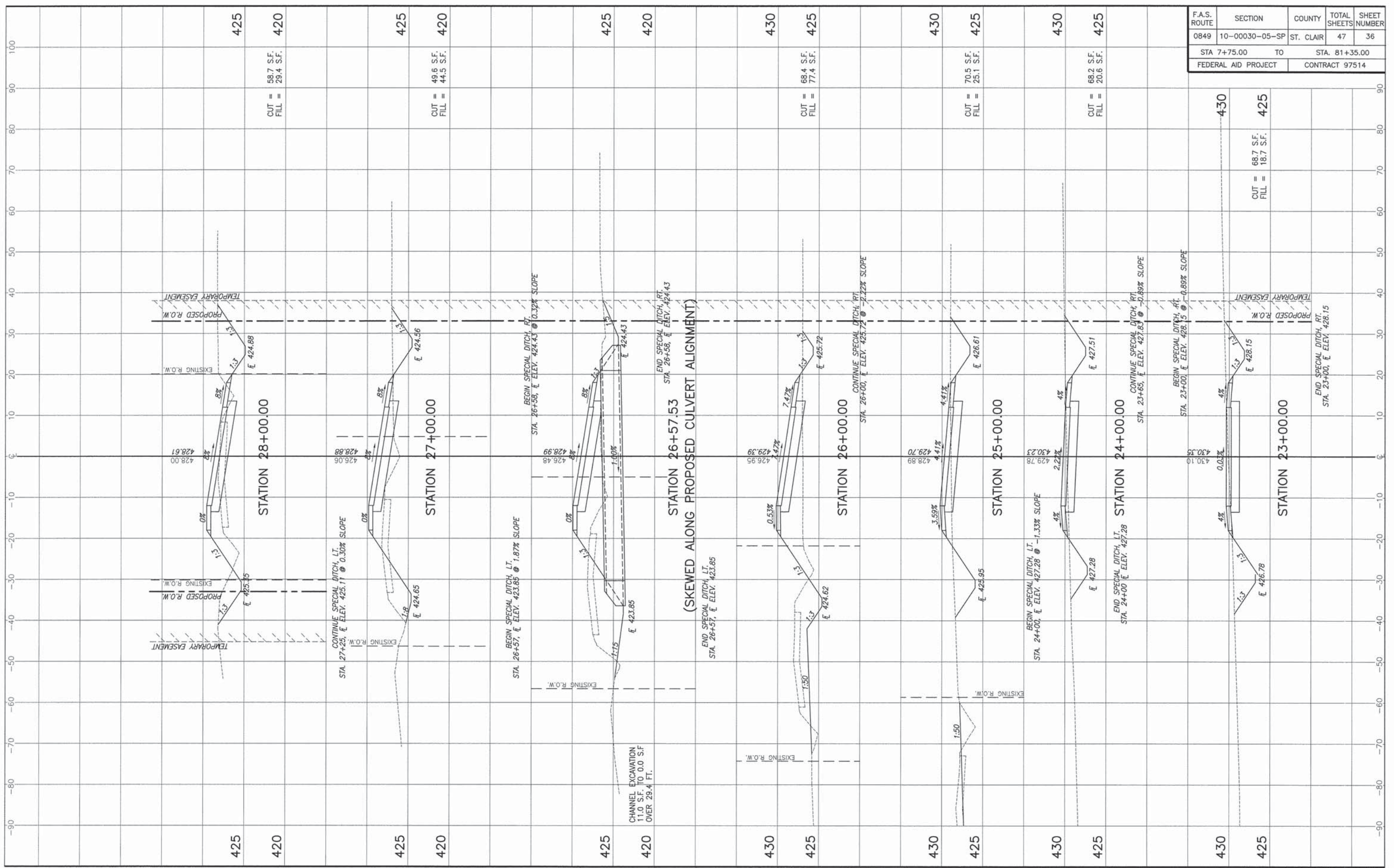


F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0859	10-00030-05-SP	ST. CLAIR	47	34
STA 7+75.00 TO STA 81+35.00		FEDERAL AID PROJECT CONTRACT 97514		

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	35
STA 7+75.00		TO	STA. 81+35.00	
FEDERAL AID PROJECT		CONTRACT 97514		



STA. 17+00 - STA. 22+00 CROSS SECTIONS
SECTION 10-00030-05-SP ST. CLAIR COUNTY, ILLINOIS



F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	36
STA 7+75.00		TO		STA. 81+35.00
FEDERAL AID PROJECT		CONTRACT 97514		

425
420
CUT = 58.7 S.F.
FILL = 29.4 S.F.

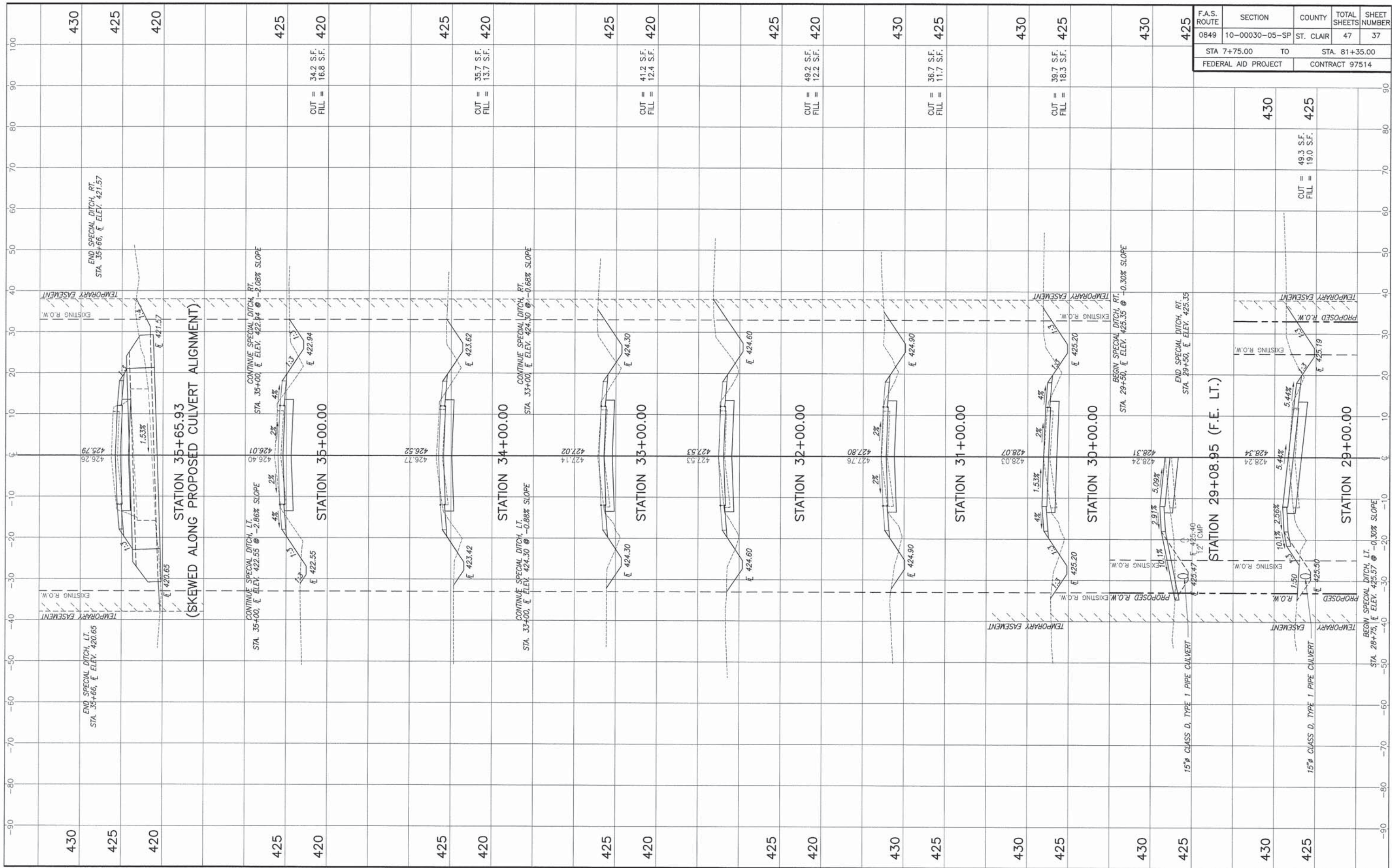
425
420
CUT = 49.6 S.F.
FILL = 44.5 S.F.

430
425
CUT = 68.4 S.F.
FILL = 77.4 S.F.

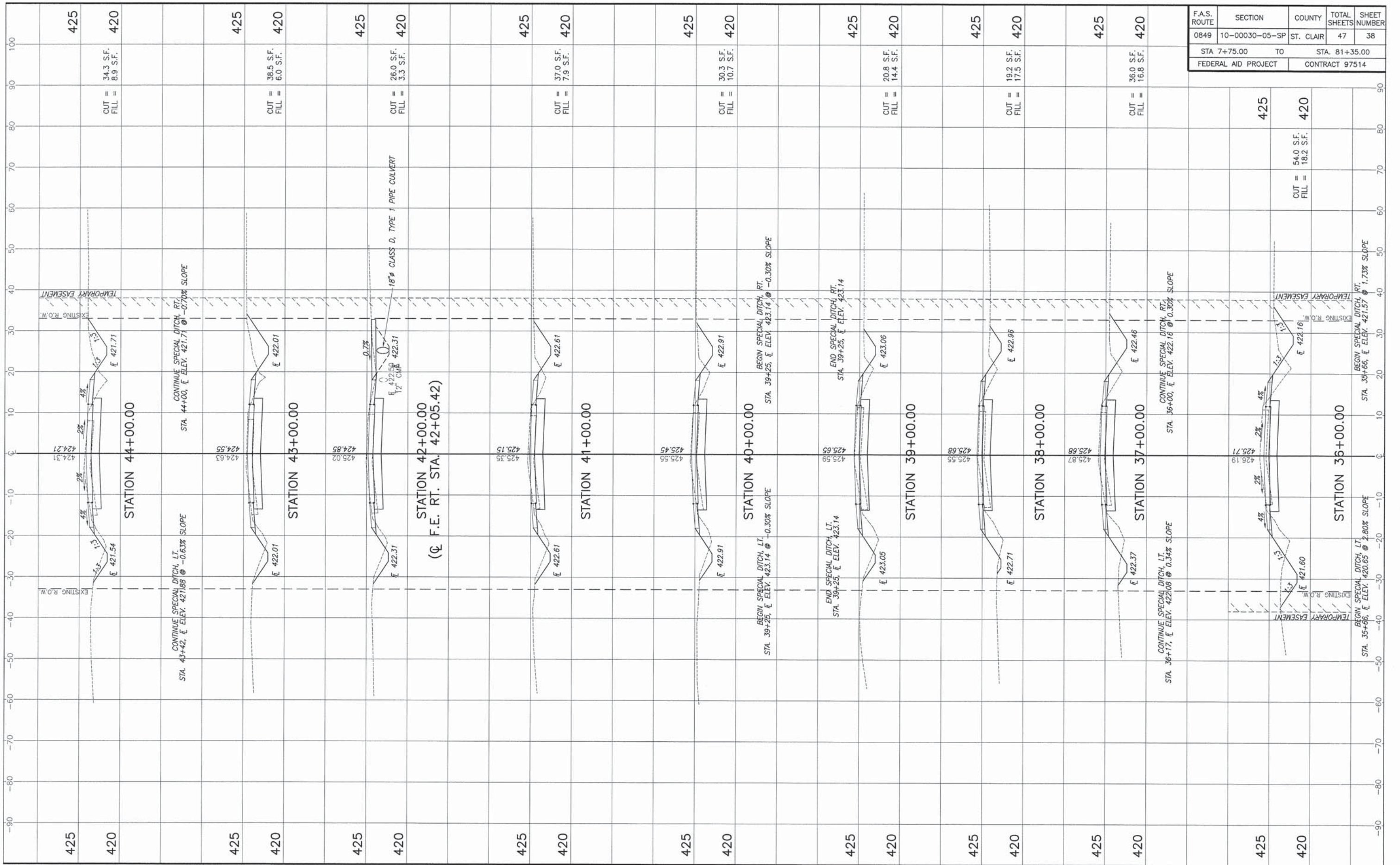
430
425
CUT = 70.5 S.F.
FILL = 25.1 S.F.

430
425
CUT = 68.2 S.F.
FILL = 20.6 S.F.

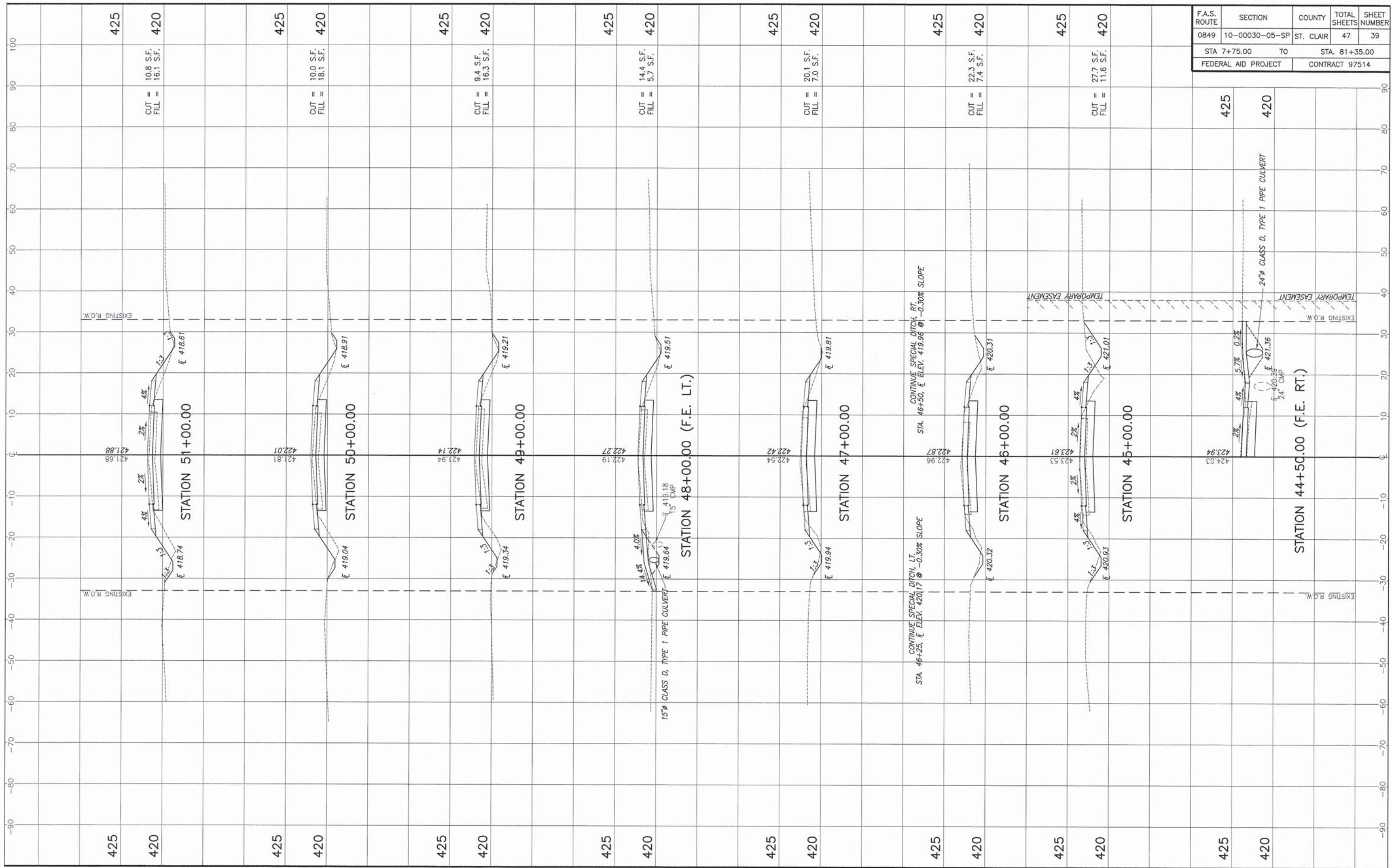
430
425
CUT = 68.7 S.F.
FILL = 18.7 S.F.



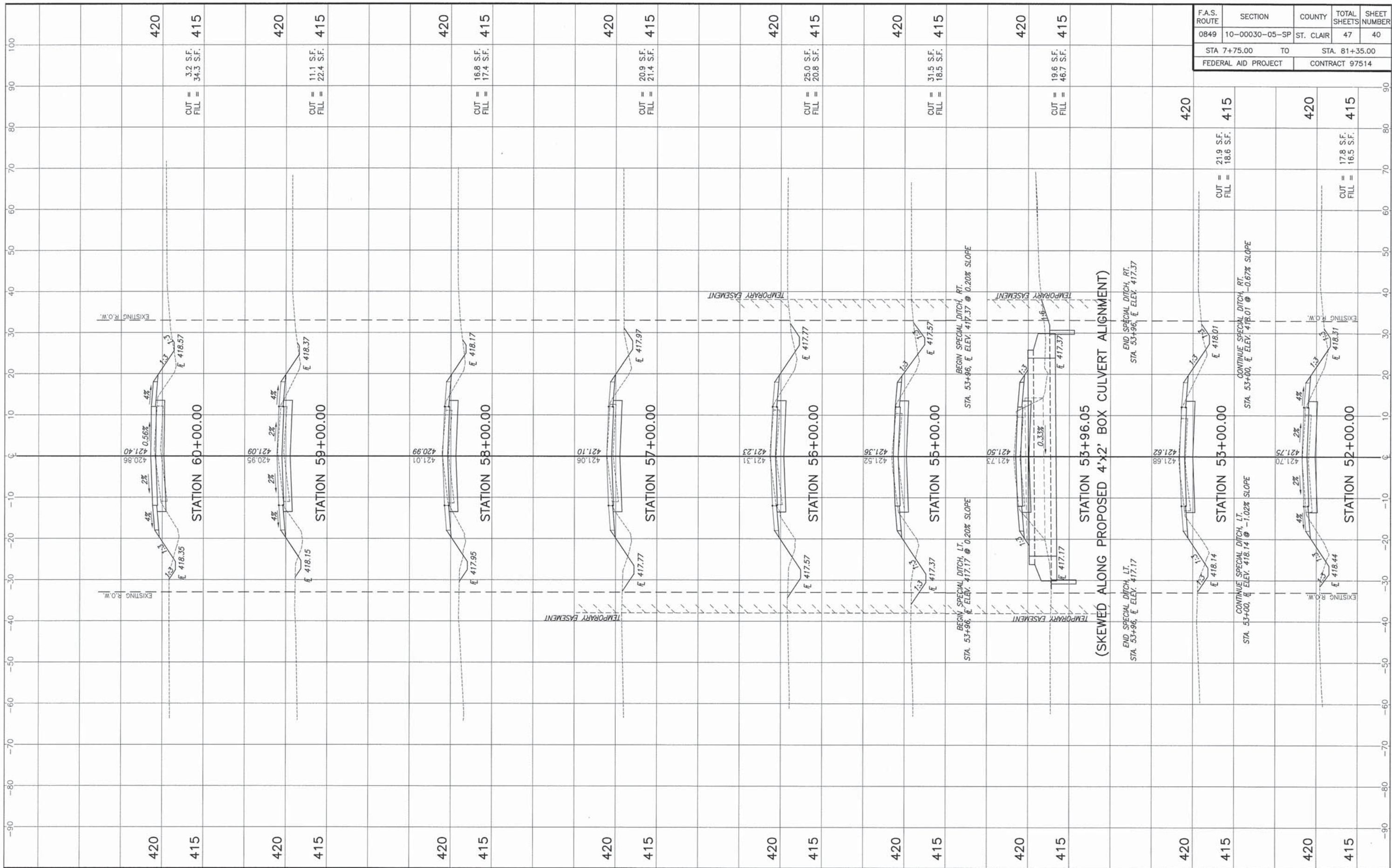
F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	37
STA 7+75.00 TO STA 81+35.00		FEDERAL AID PROJECT CONTRACT 97514		



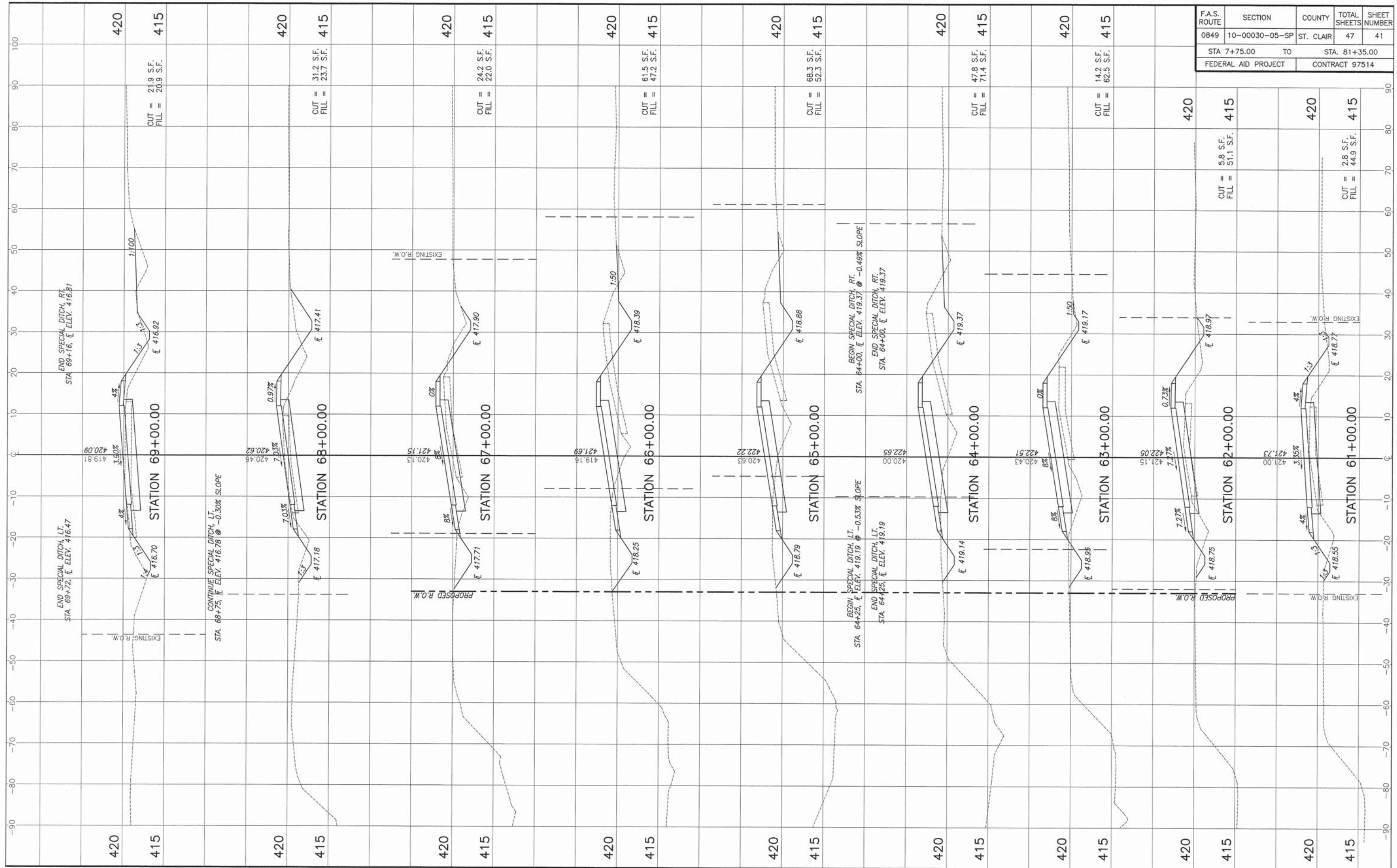
F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	38
STA 7+75.00 TO		STA. 81+35.00		
FEDERAL AID PROJECT		CONTRACT 97514		



F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	39
STA 7+75.00 TO STA. 81+35.00		FEDERAL AID PROJECT CONTRACT 97514		



F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	40
STA. 7+75.00 TO STA. 81+35.00		FEDERAL AID PROJECT CONTRACT 97514		



F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	41
STA 7+75.00 TO STA. 81+35.00		FEDERAL AID PROJECT CONTRACT 97514		

420
415

CUT = 21.9 S.F.
FILL = 20.9 S.F.

420
415

CUT = 31.2 S.F.
FILL = 23.7 S.F.

420
415

CUT = 24.2 S.F.
FILL = 22.0 S.F.

420
415

CUT = 61.5 S.F.
FILL = 47.2 S.F.

420
415

CUT = 68.3 S.F.
FILL = 52.3 S.F.

420
415

CUT = 47.8 S.F.
FILL = 71.4 S.F.

420
415

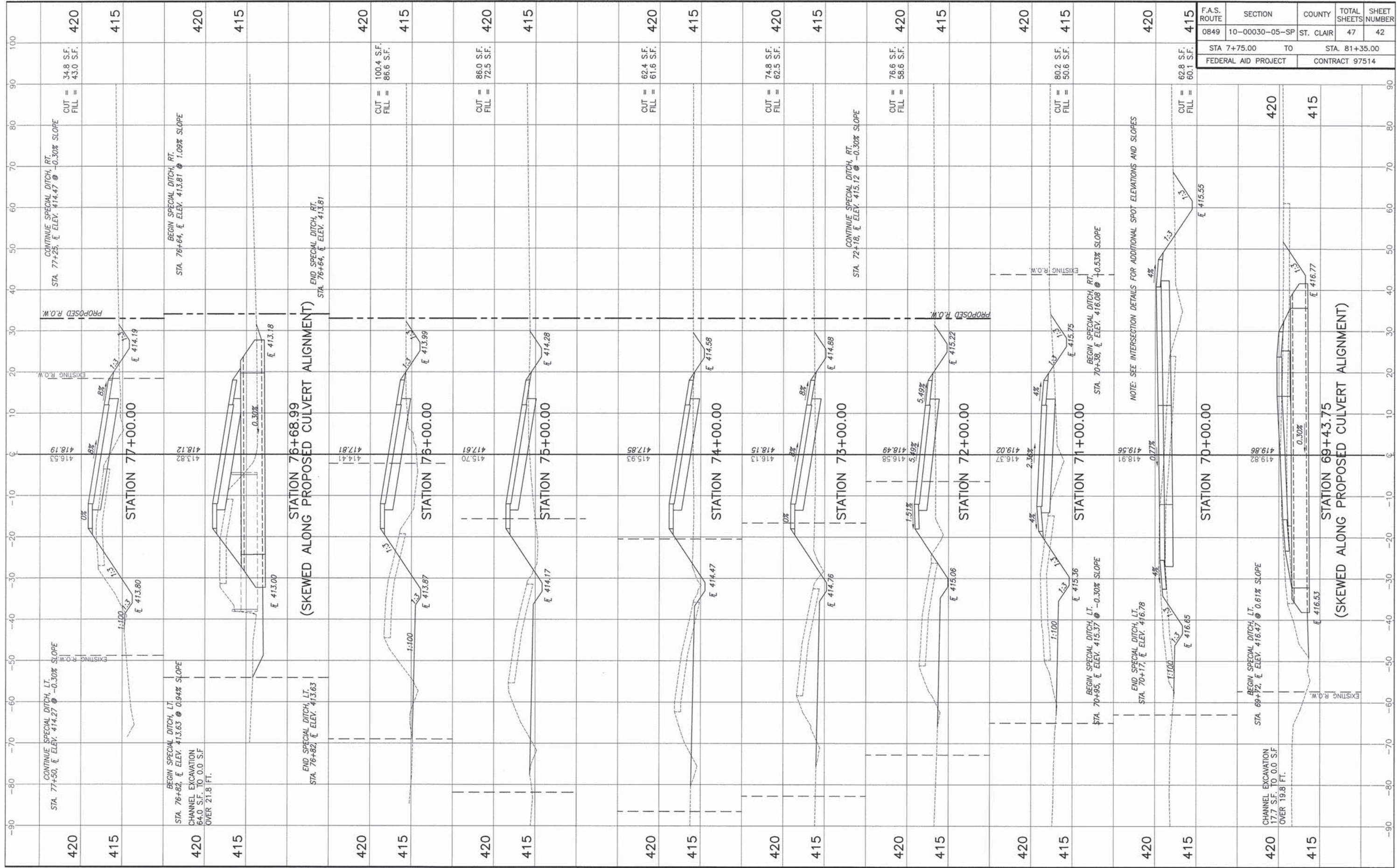
CUT = 14.2 S.F.
FILL = 62.5 S.F.

420
415

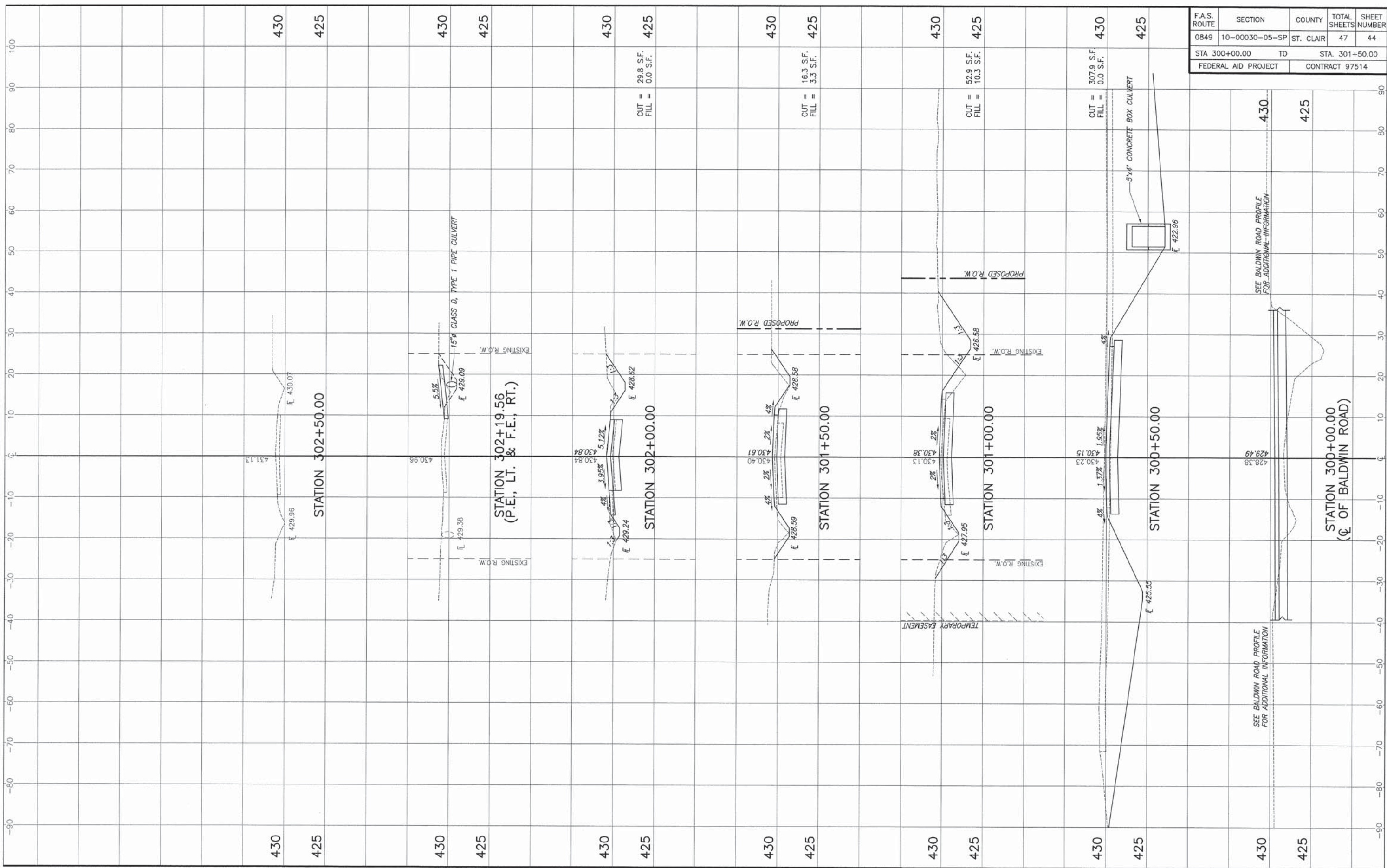
CUT = 5.8 S.F.
FILL = 51.1 S.F.

420
415

CUT = 2.8 S.F.
FILL = 44.9 S.F.



F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	42
STA 7+75.00 TO		STA. 81+35.00		
FEDERAL AID PROJECT		CONTRACT 97514		



F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	44
STA 300+00.00 TO		STA. 301+50.00		
FEDERAL AID PROJECT		CONTRACT 97514		

CUT = 29.8 S.F.
FILL = 0.0 S.F.

CUT = 16.3 S.F.
FILL = 3.3 S.F.

CUT = 52.9 S.F.
FILL = 10.3 S.F.

CUT = 307.9 S.F.
FILL = 0.0 S.F.

430

425

430

425

430

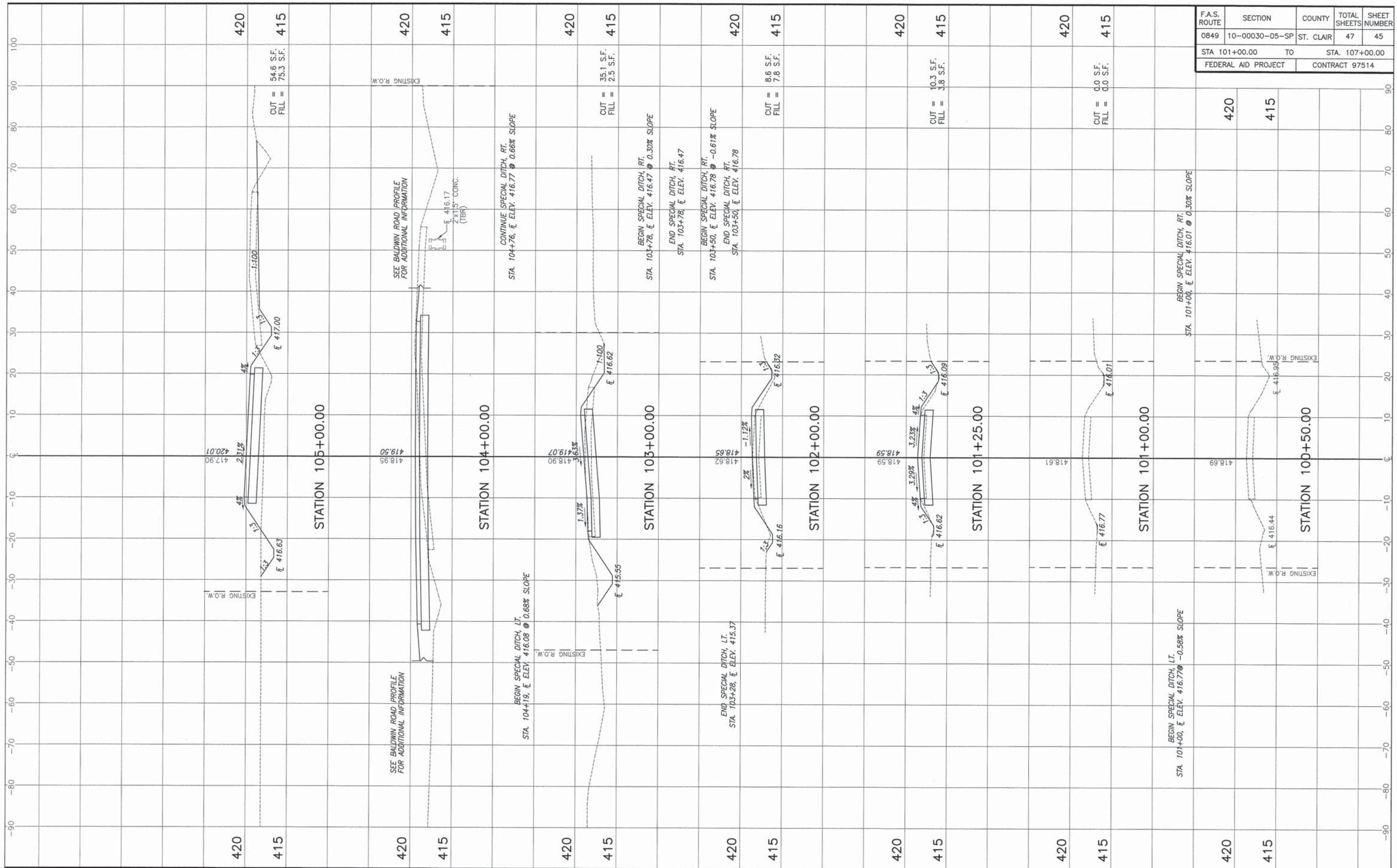
425

SEE BALDWIN ROAD PROFILE FOR ADDITIONAL INFORMATION

430

425

STATION 300+00.00
(C of BALDWIN ROAD)



F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	45
STA 101+00.00		TO		STA. 107+00.00
FEDERAL AID PROJECT			CONTRACT 97514	

420
415

CUT = 54.6 S.F.
FILL = 75.3 S.F.

420
415

CUT = 0.0 S.F.
FILL = 0.0 S.F.

420
415

CUT = 10.3 S.F.
FILL = 3.8 S.F.

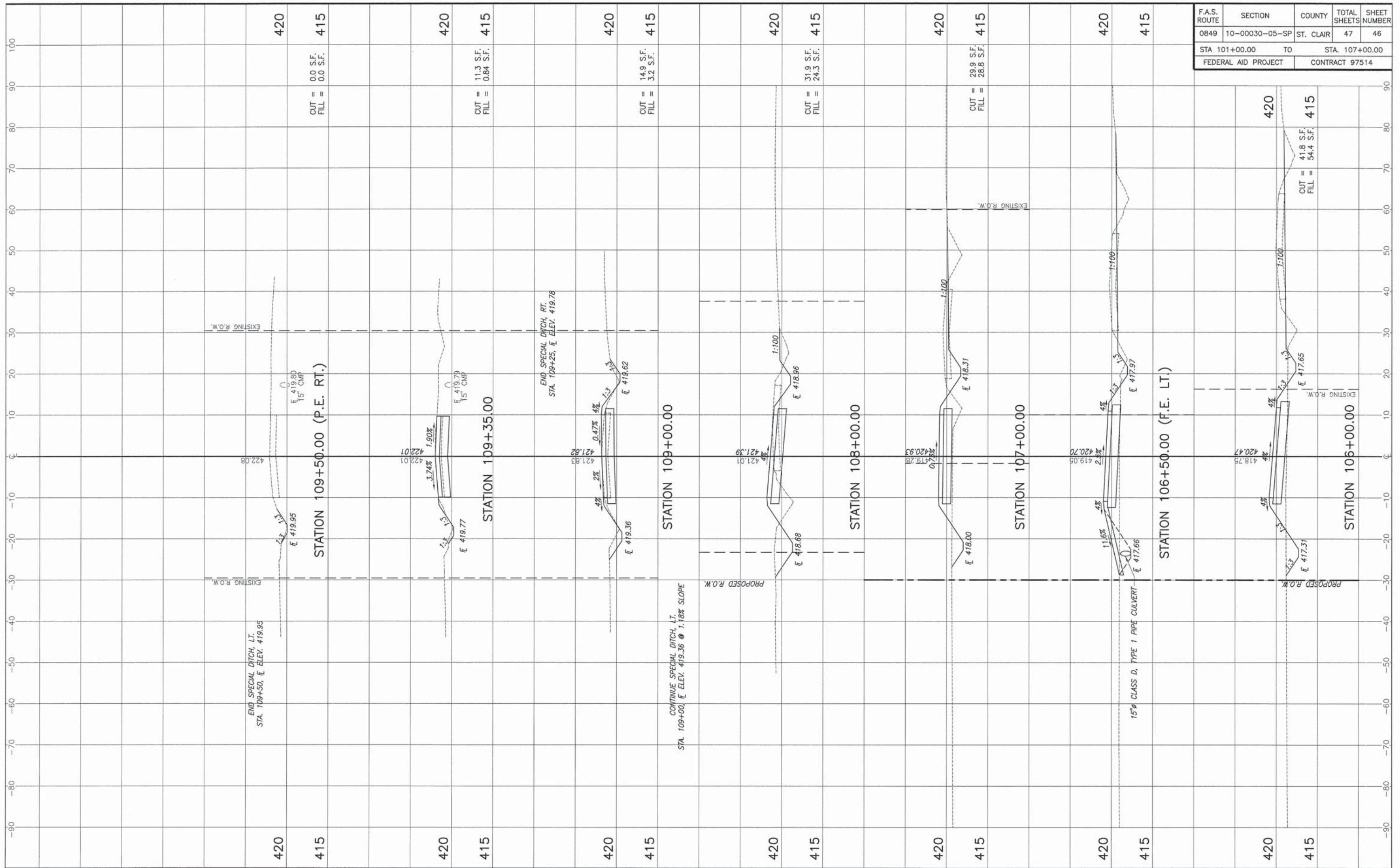
420
415

CUT = 8.6 S.F.
FILL = 7.8 S.F.

420
415

CUT = 0.0 S.F.
FILL = 0.0 S.F.

420
415



F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	46
STA 101+00.00		TO	STA. 107+00.00	
FEDERAL AID PROJECT		CONTRACT 97514		

420
415

CUT = 0.0 S.F.
FILL = 0.0 S.F.

420
415

CUT = 11.3 S.F.
FILL = 0.84 S.F.

420
415

CUT = 14.9 S.F.
FILL = 3.2 S.F.

420
415

CUT = 31.9 S.F.
FILL = 24.3 S.F.

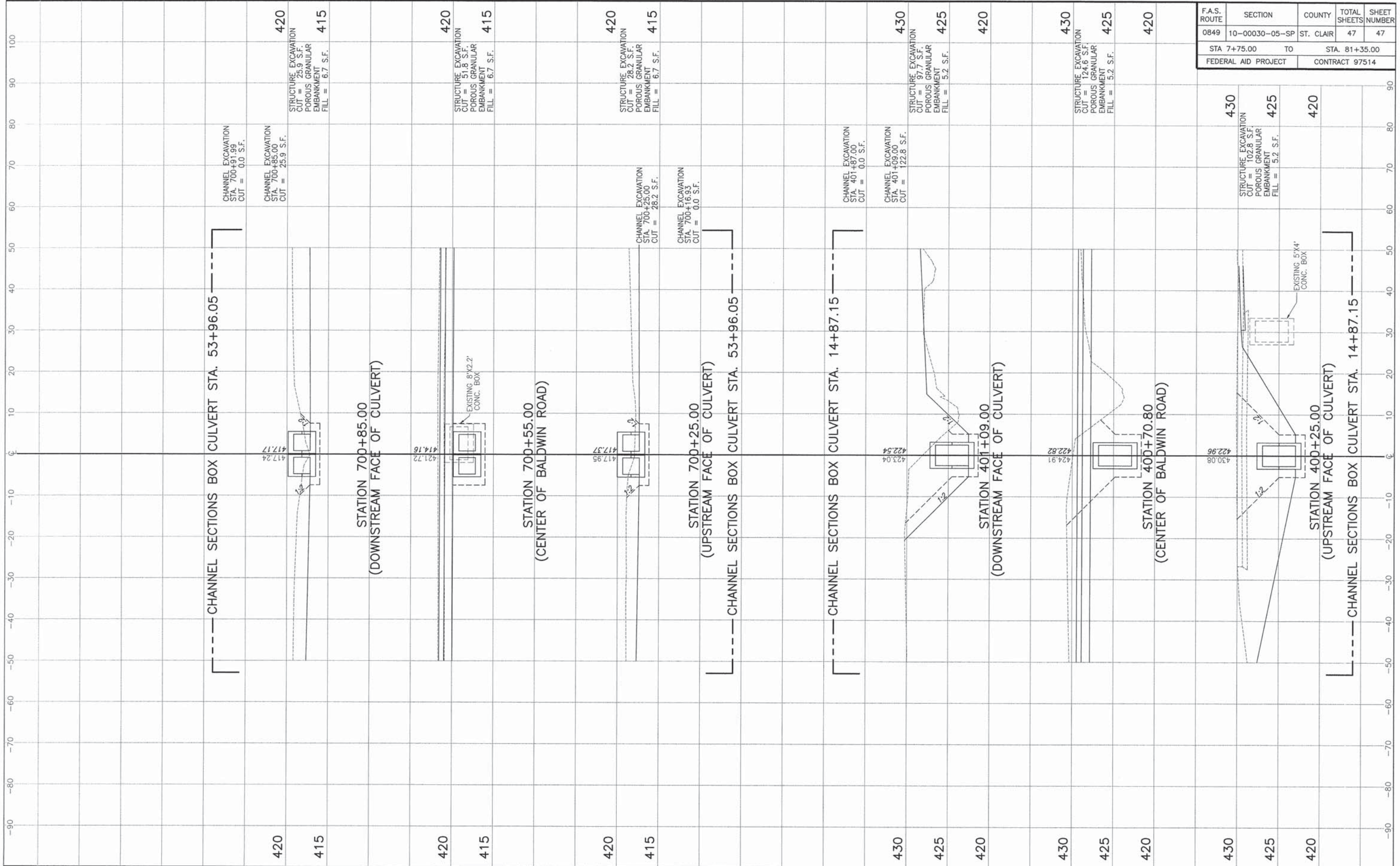
420
415

CUT = 29.9 S.F.
FILL = 28.8 S.F.

420
415

420
415

CUT = 41.8 S.F.
FILL = 54.4 S.F.



F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
0849	10-00030-05-SP	ST. CLAIR	47	47
STA 7+75.00		TO	STA. 81+35.00	
FEDERAL AID PROJECT			CONTRACT 97514	

