

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED SURFACE TRANSPORTATION PROGRAM

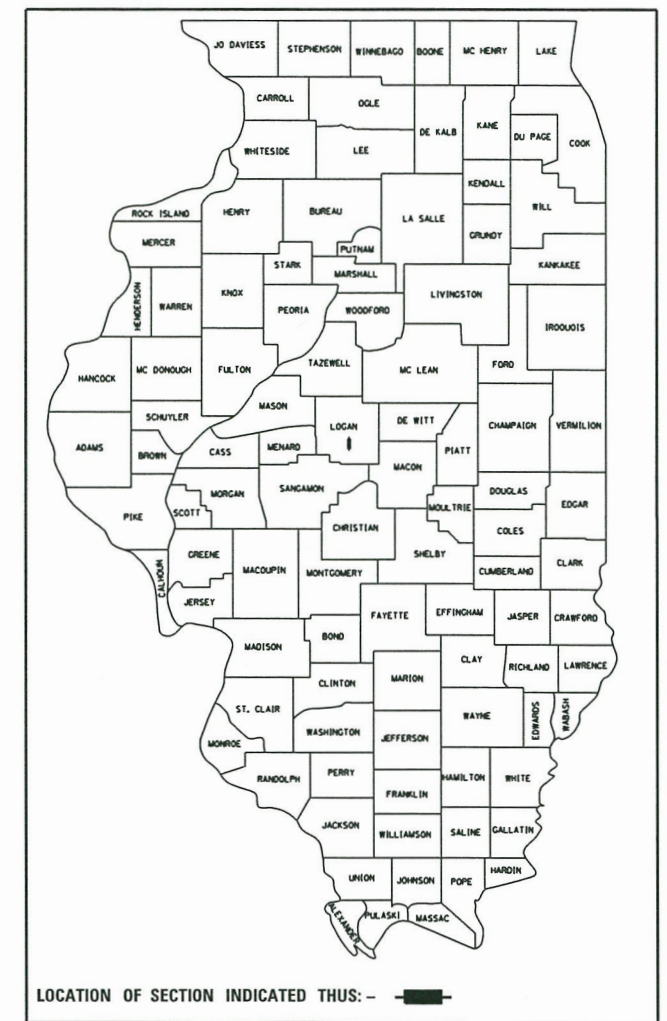
F.A.S. ROUTE 561 – C.H. 9 (PRIMM ROAD)

PROJECT NO. LNJI (856)

SECTION 12-00038-06-BR

LOGAN COUNTY

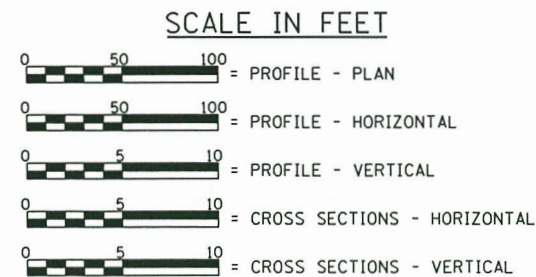
JOB NO. C-96-063-18



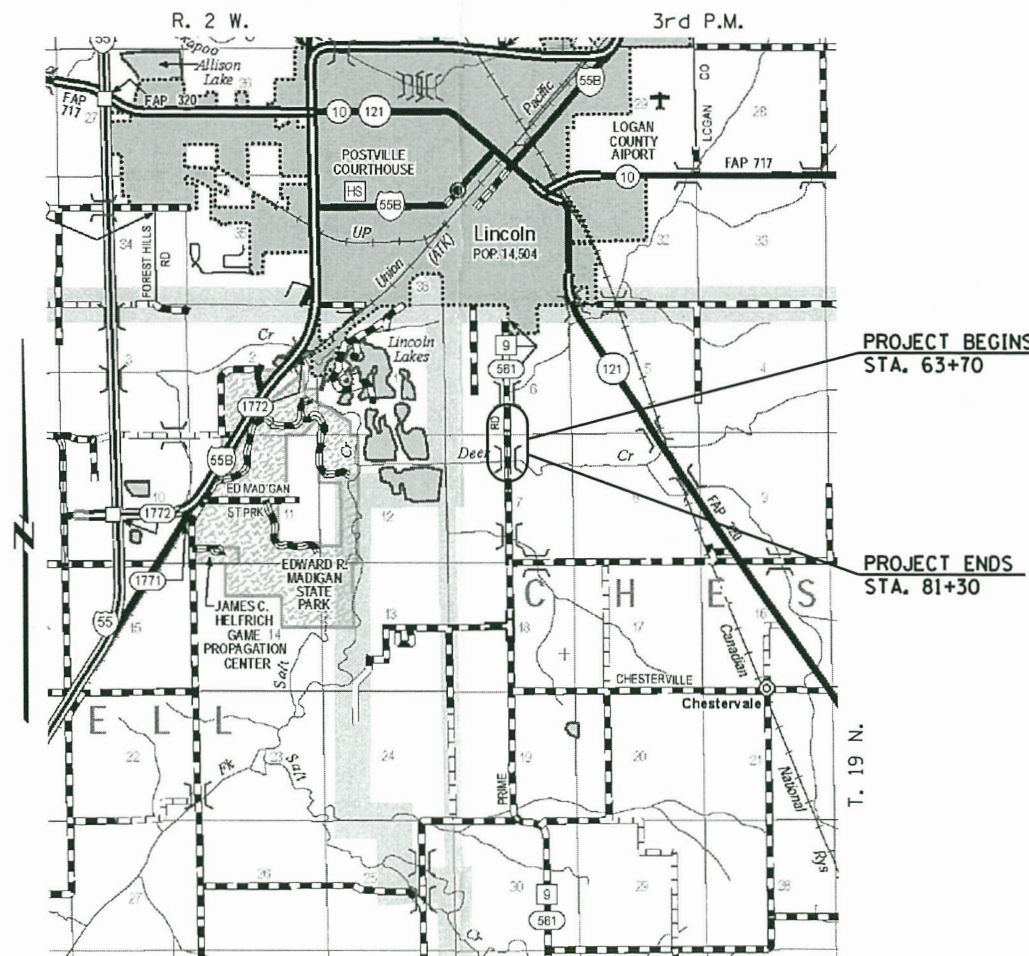
LOCATION OF SECTION INDICATED THUS: —

INDEX OF SHEETS

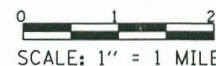
- 1 - TITLE SHEET
- 2 - GENERAL NOTES
- 3-7 - SUMMARY OF QUANTITIES
- 8-11 - TYPICAL ROADWAY SECTIONS
- 12 - CROSS ROAD CULVERT DETAILS
- 13 - ENTRANCE AND GUARDRAIL DETAILS
- 14-15 - QUANTITY SCHEDULES
- 16-18 - PLAN & PROFILE
- 19-21 - EROSION CONTROL PLAN
- 22-42 - STRUCTURE PLANS
- 43-76 - ROADWAY CROSS SECTIONS
- 77-84 - CHANNEL CROSS SECTIONS



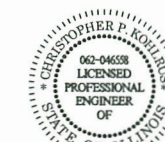
LAND SECTION - 6 & 7
FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)
A.D.T. - 960 (2013)
A.D.T. - 1183 (2034)
55 M.P.H. DESIGN SPEED



LOCATION PLAN
LENGTH OF SECTION - 1760.00 FEET = 0.333 MILES



PROJECT DESCRIPTION: STA. 79+24.75 - PROJECT CONSISTS OF THE REMOVAL OF AN EXISTING THREE SPAN P.P.C. DECK BEAM STRUCTURE (±157'-1") TO BE REPLACED WITH A STRUCTURE CONSISTING OF A THREE SPAN STEEL GIRDER BRIDGE HAVING A BACK TO BACK ABUTMENT LENGTH OF 184'-2" SOLID REINFORCED CONCRETE PIERS AND INTEGRAL ABUTMENTS, 30'-0" CLEAR DECK WIDTH, STEEL RAILING TYPE SM, 0° SKEW. EXISTING S.N. 054-3016 PROPOSED S.N. 054-3064



Christopher P. Kozlowski 7/5/18
EXPIRATION: 11/30/2019

APPROVED	7/5, 2018	<i>Christopher P. Kozlowski</i> COUNTY ENGINEER
PASSED	8-20, 2018	<i>Christopher P. Kozlowski</i> DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS
Releasing For Bid Based on Limited Review	8-20, 2018	<i>Jeffrey M. Southwick</i> REGION FOUR ENGINEER
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		

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OF THE STATE OF ILLINOIS**

TOLL FREE
"JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS"
(U.L.L.I.E.) TELEPHONE NUMBER
1-800-892-0123

CONTRACT NO. 93721



USER NAME *	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE *	DRAWN -	REVISED -	
PLOT DATE *	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COVER SHEET
SHEET NO. 1 OF 84 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	1
STR. NO.		CONTRACT NO. 93721		
ILLINOIS FED. AID PROJECT				

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.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (BORROW SITE REVIEW)
- 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 HOT-MIX ASPHALT 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 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 SEPERATELY 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 FOR 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 107.39 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 CONTRACTOR SHALL DISPOSE OF SPOIL MATERIAL FROM PAVEMENT REMOVAL BY INCORPORATING IT INTO THE ROADWAY EMBANKMENT IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. ANY SPOIL MATERIAL NOT MEETING THE REQUIREMENTS OF SECTION 205 SHALL BE DISPOSED OF BY THE CONTRACTOR OFF SITE AT NO ADDITIONAL COST TO THE CONTRACT.
- 15.) SUMMARY OF QUANTITIES FOR MAJOR CONSTRUCTION ITEMS ARE INTENDED AS A GUIDE FOR THE CONTRACTOR TO DETERMINE THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT. CONTRACT PRICE SUBMITTED FOR STRUCTURAL STEEL IS CONSIDERED AS LUMP SUM FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED DUE TO REASONABLE VARIATIONS IN THE QUANTITIES.
- 16.) IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16, THE CONTRACTOR SHALL PROTECT THE SURFACE OF THE BRIDGE DECK AND BRIDGE APPROACH PAVEMENT IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE.

- 17.) ONLY THOSE TREES LISTED FOR REMOVAL IN THE PLANS OR DESIGNATED BY THE ENGINEER SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL OTHER TREES, PLANTS OR WETLANDS FROM DAMAGE AT NO ADDITIONAL COST TO THE CONTRACT.
- 18.) THE CONTRACTOR SHALL MAINTAIN OR REPLACE (IF SPECIFIED BY THE ENGINEER) SEDIMENT CONTROL ITEMS.
 - a. THE TEMPORARY EROSION CONTROL SYSTEMS INSTALLED BY THE CONTRACTOR SHALL BE PROPERLY MAINTAINED AS DIRECTED BY THE ENGINEER TO CONTROL SILTATION AT ALL TIMES DURING THE LIFE OF THE CONTRACT. THIS WORK SHALL INCLUDE REPAIR OF THE VARIOUS SYSTEMS, REMOVAL OF TRAPPED SEDIMENT AND CLEANING OF ANY SILT FILTER FABRIC, DITCH CHECKS AND INLET AND PROTECTION DEVICES.
 - b. IF THE CONTRACTOR FAILS TO MAINTAIN THE TEMPORARY EROSION CONTROL SYSTEMS AS DIRECTED BY THE ENGINEER, THE ENGINEER MAY AT THE EXPIRATION OF A PERIOD OF 48 HOURS, AFTER HAVING GIVEN THE CONTRACTOR WRITTEN NOTICE, PROCEED TO MAINTAIN THE SYSTEMS AS DEEMED NECESSARY, AND THE COST THEREOF WILL BE DEDUCTED FROM ANY COMPENSATION DUE, OR WHICH MAY BECOME DUE TO THE CONTRACTOR UNDER HIS CONTRACT.

STANDARDS

STANDARD 280001-07	TEMPORARY EROSION CONTROL SYSTEM
STANDARD 420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
STANDARD 515001-03	NAME PLATE FOR BRIDGES
STANDARD 542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
STANDARD 601101-02	HEADWALL FOR PIPE UNDERDRAINS, CONCRETE
STANDARD 630001-12	STEEL PLATE BEAM GUARDRAIL
STANDARD 630301-08	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
STANDARD 631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
STANDARD 701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
STANDARD 701901-07	TRAFFIC CONTROL DEVICES
STANDARD 725001-01	OBJECT AND TERMINAL MARKERS
STANDARD 780001-05	TYPICAL PAVEMENT MARKINGS
STANDARD BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL ROADS

LIST OF UTILITIES

- FRONTIER COMMUNICATIONS
117 W. JEFFERSON ST.
MT. PULASKI, IL. 62548
217-792-5618
- METRO COMMUNICATIONS
7 N. HAMILTON ST.
SULLIVAN, IL. 61951
- AMEREN ELECTRIC
1900 W. LAFAYETTE
JACKSONVILLE, IL. 62650
217-320-3171
- ILLINOIS AMERICAN WATER COMPANY
1100 KEOKUK ST.
LINCOLN, IL. 62656
217-735-7268

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

BITUMINOUS MATERIALS (PRIME COAT)	0.075 GAL/SQ. YD. (ON PAVEMENT)
BITUMINOUS MATERIALS (PRIME COAT)	0.375 GAL/SQ. YD. (ON AGG.)
BITUMINOUS MATERIALS (PRIME COAT)	0.05 LB/SQ. FT. (ON PAVEMENT)
BITUMINOUS MATERIALS (PRIME COAT)	0.25 POUND/SQ. FT. (ON AGG.)
BITUMINOUS MATERIALS (PRIME COAT)	0.025 LB/SQ. FT. (BETWEEN HMA LIFTS)
HOT MIX ASPHALT SURFACE / BINDER	0.056 TON/SQ. YD. PER 1"
AGGREGATE MATERIAL	1.90 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
AGRICULTURAL GROUND LIMESTONE	2.0 TON/ACRE

MIXTURE REQUIREMENTS

MIXTURE USE(S)	HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50	HOT MIX ASPHALT LEVELING BINDER COURSE	HOT MIX ASPHALT BINDER
AC/PG	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR Voids	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50
MIXTURE COMPOSITION	IL 9.5	IL 9.5	IL 19.0
FRICTION AGGREGATE	MIX C	N/A	N/A
QUALITY MANAGEMENT	OC/OA	OC/OA	OC/OA



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	2
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY	80% FEDERAL 20% LOCAL BRIDGE
				0004	0010
				S.N. 054-3064	
20100500	TREE REMOVAL, ACRES	ACRE	3.9	3.9	
20200100	EARTH EXCAVATION	CU YD	24178	24178	
20300100	CHANNEL EXCAVATION	CU YD	5671	5671	
25000200	SEEDING, CLASS 2	ACRE	10.0	10.0	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	900	900	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	900	900	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	900	900	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	20	20	
25100115	MULCH, METHOD 2	ACRE	10.0	10.0	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1000	1000	
28000305	TEMPORARY DITCH CHECKS	FOOT	42	42	
28000400	PERIMETER EROSION BARRIER	FOOT	1845	1845	
28000500	INLET AND PIPE PROTECTION	EACH	1	1	
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	2367	13	2354

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY	80% FEDERAL 20% LOCAL BRIDGE
				0004	0010
				S.N. 054-3064	
28200200	FILTER FABRIC	SQ YD	2956	19	2937
35100100	AGGREGATE BASE COURSE, TYPE A	TON	1958	1958	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	9582	9582	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2601	2601	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	169	169	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	160	160	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	601	601	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	337	337	
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	68	68	
44000100	PAVEMENT REMOVAL	SQ YD	3049	3049	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	320	320	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
50105220	PIPE CULVERT REMOVAL	FOOT	74	74	
50200100	STRUCTURE EXCAVATION	CU YD	89		89



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES		
SCALE: VARIES	SHEET NO. 2 OF 5 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	4
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY 0004	80% FEDERAL 20% LOCAL BRIDGE 0010
				S.N. 054-3064	
50200300	COFFERDAM EXCAVATION	CU YD	366		366
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1		1
50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1		1
50300225	CONCRETE STRUCTURES	CU YD	163.4		163.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	169.9		169.9
50300260	BRIDGE DECK GROOVING	SQ YD	807		807
50300265	SEAL COAT CONCRETE	CU YD	89.8		89.8
50300300	PROTECTIVE COAT	SQ YD	887		887
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	86.7		86.7
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1
50500505	STUD SHEAR CONNECTORS	EACH	4536		4536
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	95350		95350
Δ 50901050	STEEL RAILING, TYPE SM	FOOT	425		425
51201610	FURNISHING STEEL PILES HP12X63	FOOT	665		665

Δ SPECIALTY ITEM



USER NAME *	DESIGNED -	REVISED -
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PLOT DATE *	DRAWN -	REVISED -
	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: VARIES	SHEET NO. 3 OF 5 SHEETS	STA.	TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	5
				CONTRACT NO. 93721
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY	80% FEDERAL 20% LOCAL BRIDGE
				0004	0010
				S.N. 054-3064	
51201900	FURNISHING STEEL PILES HP14X89	FOOT	684		684
51202305	DRIVING PILES	FOOT	1349		1349
51203610	TEST PILE STEEL HP12X63	EACH	2		2
51204650	PILE SHOES	EACH	24		24
51500100	NAME PLATES	EACH	1		1
52100520	ANCHOR BOLTS, 1"	EACH	48		48
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	56	56	
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	38	38	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	54		54
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	10.6	10.6	
Δ 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	300	300	

Δ SPECIALTY ITEMS



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: VARIES | SHEET NO. 4 OF 5 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-0003B-06-BR	LOGAN	84	6
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY	80% FEDERAL 20% LOCAL BRIDGE
				0004	0010
					S.N. 054-3064
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	11	11	
67100100	MOBILIZATION	L SUM	1	1	
• 70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1	
Δ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	8910	8910	
• X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1067	1067	
• X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	108		108
• Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	60		60
• Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
• Z0022800	FENCE REMOVAL	FOOT	851	851	
• Z0023602	GRANULAR CULVERT BACKFILL	CU YD	38	38	
• Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	1516	1516	
# • Z0076600	TRAINEES	HOUR	1500		
# • Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1500		
• Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	128		128

• SEE SPECIAL PROVISIONS Δ SPECIALTY ITEMS
0042

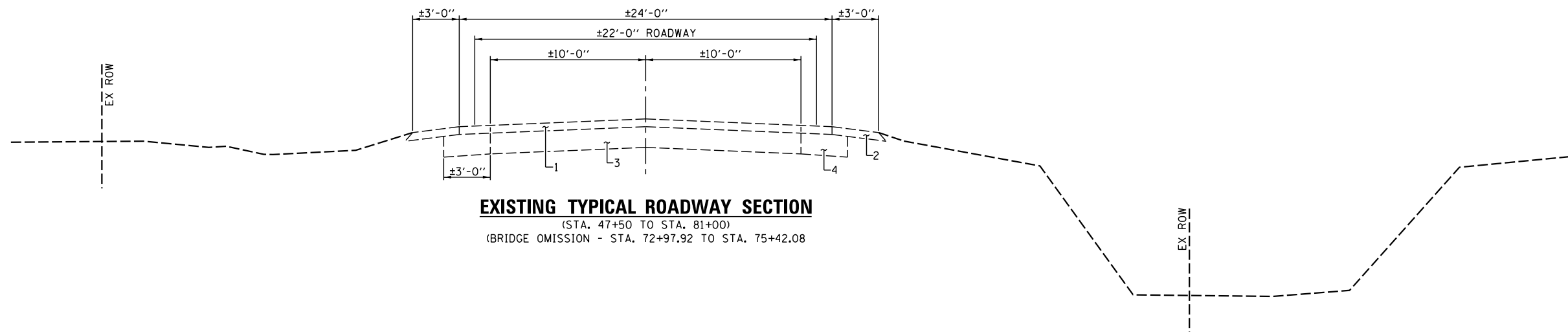


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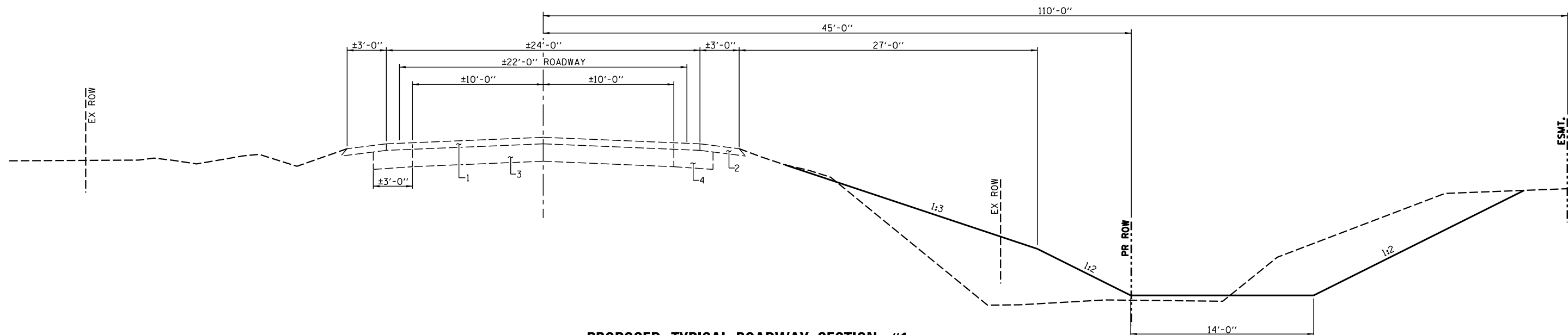
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE: VARIES	SHEET NO. 5 OF 5 SHEETS	STA.	TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	7
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL ROADWAY SECTION
 (STA. 47+50 TO STA. 81+00)
 (BRIDGE OMISSION - STA. 72+97.92 TO STA. 75+42.08)



PROPOSED TYPICAL ROADWAY SECTION #1
 (STA. 47+75 TO STA. 63+70)

PAVEMENT LEGEND

1. EX BITUMINOUS SURFACE COURSE 3"
2. EX AGGREGATE SHOULDER 3"
3. EX AGGREGATE BASE COURSE
4. EX BITUMINOUS WIDENING 8"
5. PR HMA SURFACE REMOVAL (VAR. DEPTH)
6. PR HMA SURFACE CSE., MIX "C", N50 (1 1/2")
7. PR HMA LEVELING BINDER (MM), N50 (3/4" MIN.)
8. PR HMA BINDER CSE., IL 19.0, N50 (3 3/4" MIN.)
9. PR AGGREGATE SHOULDER TYPE B (6")
10. PR PAVEMENT MARKING
11. PR EARTH EMBANKMENT
12. PR AGGREGATE BASE COURSE, TY A (12" MIN.)
13. PR PAVEMENT REMOVAL
14. PR PROPOSED CONCRETE APPROACH PAVEMENT
15. PR LONGITUDINAL JOINT SEALANT



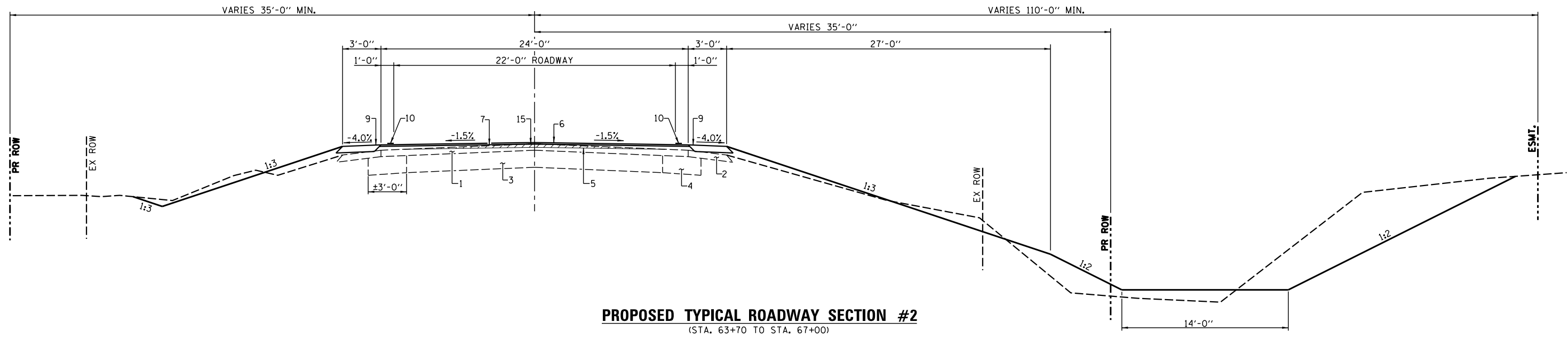
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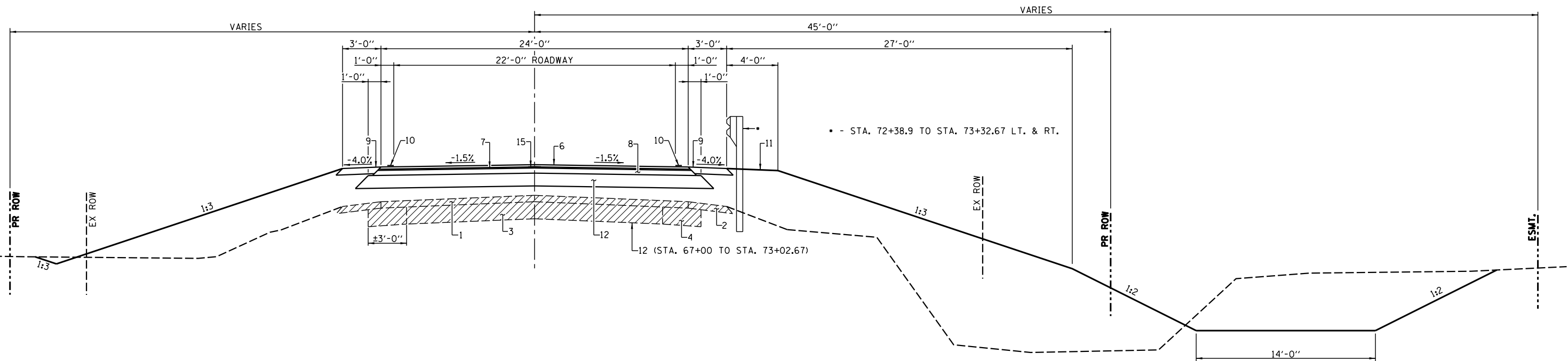
TYPICAL ROADWAY SECTIONS

SCALE: NONE SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	8
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL ROADWAY SECTION #2
(STA. 63+70 TO STA. 67+00)



PROPOSED TYPICAL ROADWAY SECTION #3
(STA. 67+00 TO STA. 73+02.67)

(NOTE: PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
STA. 72+92.67 TO STA. 73+02.67)

PAVEMENT LEGEND

1. EX BITUMINOUS SURFACE COURSE 3"
2. EX AGGREGATE SHOULDER 3"
3. EX AGGREGATE BASE COURSE
4. EX BITUMINOUS WIDENING 8"
5. PR HMA SURFACE REMOVAL (VAR. DEPTH)
6. PR HMA SURFACE CSE., MIX "C", N50 (1 1/2")
7. PR HMA LEVELING BINDER (MM), N50 (3/4" MIN.)
8. PR HMA BINDER CSE., IL 19.0, N50 (3 3/4" MIN.)
9. PR AGGREGATE SHOULDER TYPE B (6")
10. PR PAVEMENT MARKING
11. PR EARTH EMBANKMENT
12. PR AGGREGATE BASE COURSE, TY A (12" MIN.)
13. PR PAVEMENT REMOVAL
14. PR PROPOSED CONCRETE APPROACH PAVEMENT
15. PR LONGITUDINAL JOINT SEALANT



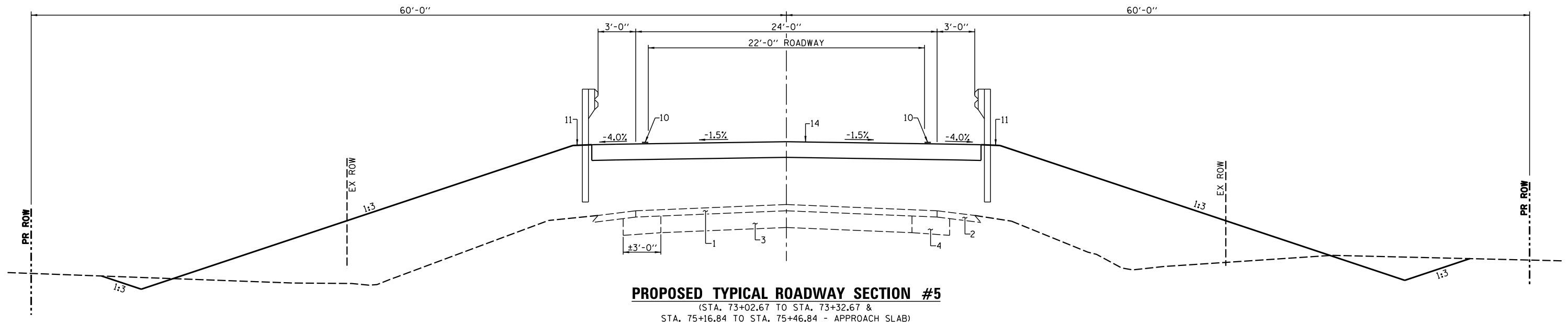
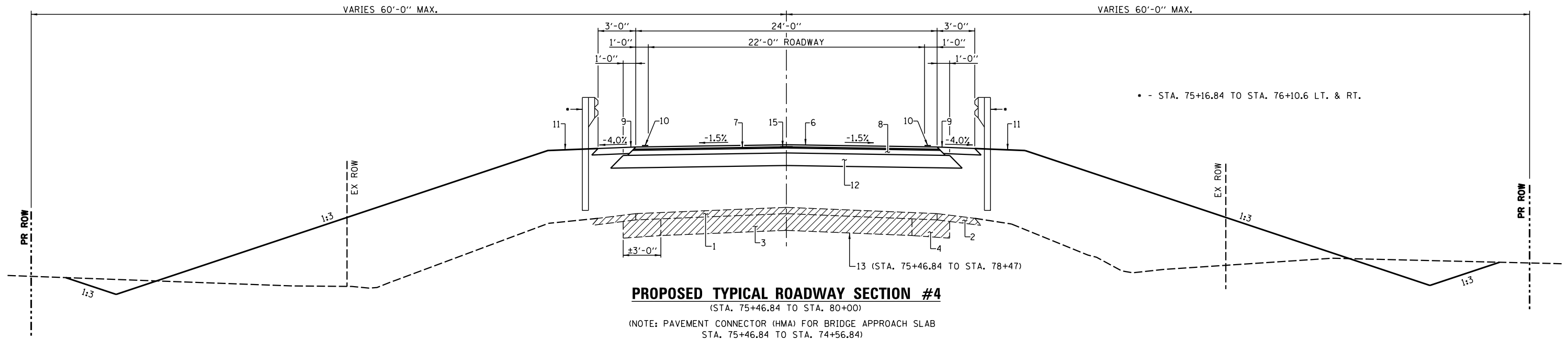
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DEPARTMENT OF TRANSPORTATION**

TYPICAL ROADWAY SECTIONS

SCALE: NONE SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	9
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				



PAVEMENT LEGEND

- 1. EX BITUMINOUS SURFACE COURSE 3"
- 2. EX AGGREGATE SHOULDER 3"
- 3. EX AGGREGATE BASE COURSE
- 4. EX BITUMINOUS WIDENING 8"
- 5. PR HMA SURFACE REMOVAL (VAR. DEPTH)
- 6. PR HMA SURFACE CSE., MIX "C", N50 (1 1/2")
- 7. PR HMA LEVELING BINDER (MM), N50 (3/4" MIN.)
- 8. PR HMA BINDER CSE., IL 19.0, N50 (3 3/4" MIN.)
- 9. PR AGGREGATE SHOULDER TYPE B (6")
- 10. PR PAVEMENT MARKING
- 11. PR EARTH EMBANKMENT
- 12. PR AGGREGATE BASE COURSE, TY A (12" MIN.)
- 13. PR PAVEMENT REMOVAL
- 14. PR PROPOSED CONCRETE APPROACH PAVEMENT
- 15. PR LONGITUDINAL JOINT SEALANT



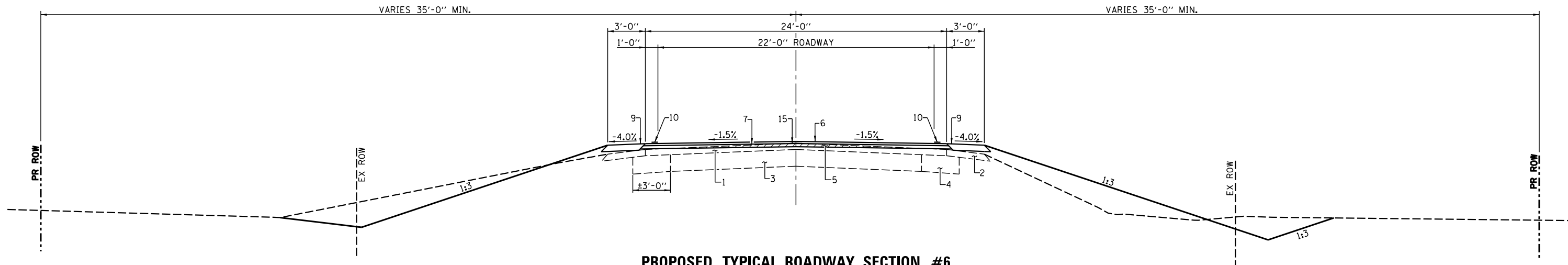
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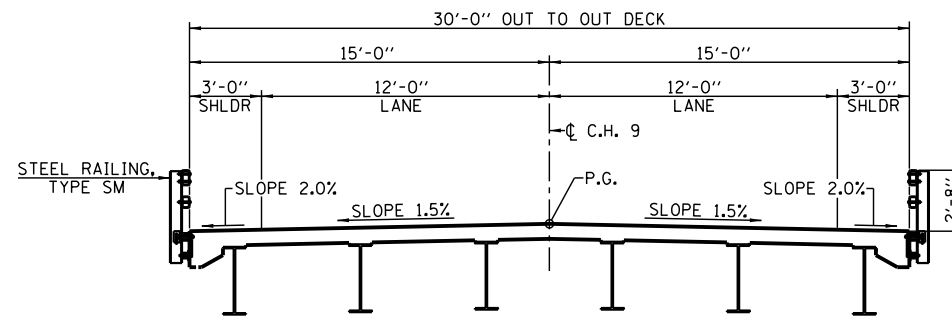
TYPICAL ROADWAY SECTIONS

SCALE: NONE SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	10
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL ROADWAY SECTION #6
(STA. 80+00 TO STA. 81+30)



PROPOSED TYPICAL BRIDGE SECTION
(STA. 73+32.67 TO STA. 75+16.84)

PAVEMENT LEGEND

1. EX BITUMINOUS SURFACE COURSE 3"
2. EX AGGREGATE SHOULDER 3"
3. EX AGGREGATE BASE COURSE
4. EX BITUMINOUS WIDENING 8"
5. PR HMA SURFACE REMOVAL (VAR. DEPTH)
6. PR HMA SURFACE CSE., MIX "C", N50 (1 1/2")
7. PR HMA LEVELING BINDER (MM), N50 (3/4" MIN.)
8. PR HMA BINDER CSE., IL 19.0, N50 (3 3/4" MIN.)
9. PR AGGREGATE SHOULDER TYPE B (6")
10. PR PAVEMENT MARKING
11. PR EARTH EMBANKMENT
12. PR AGGREGATE BASE COURSE, TY A (12" MIN.)
13. PR PAVEMENT REMOVAL
14. PR PROPOSED CONCRETE APPROACH PAVEMENT
15. PR LONGITUDINAL JOINT SEALANT



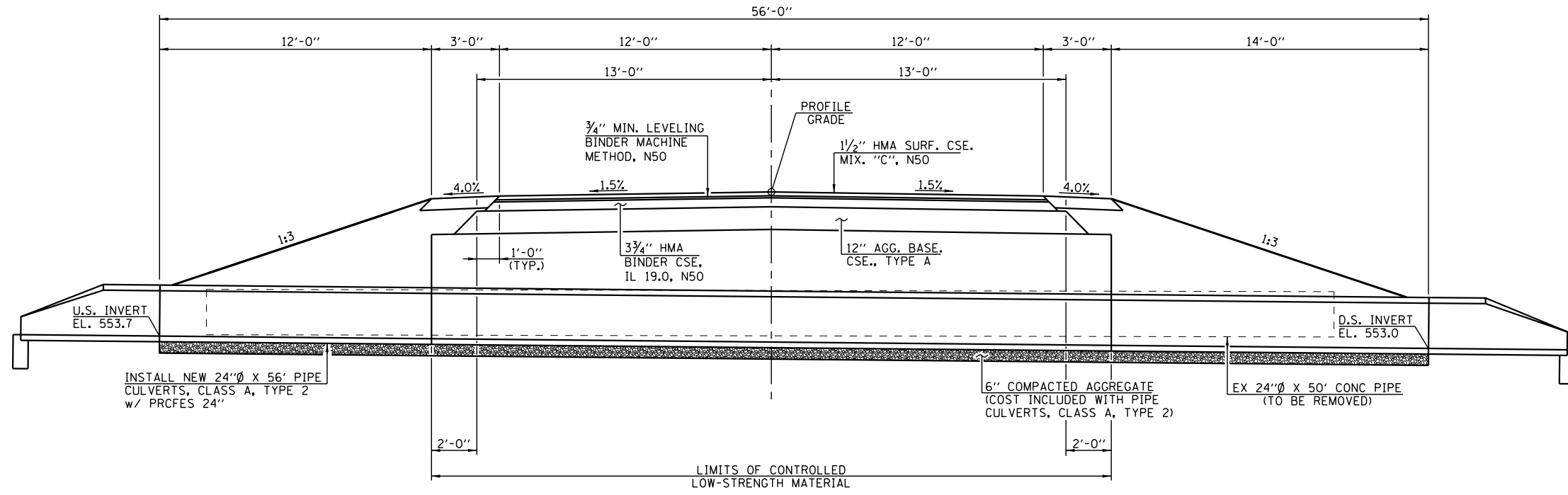
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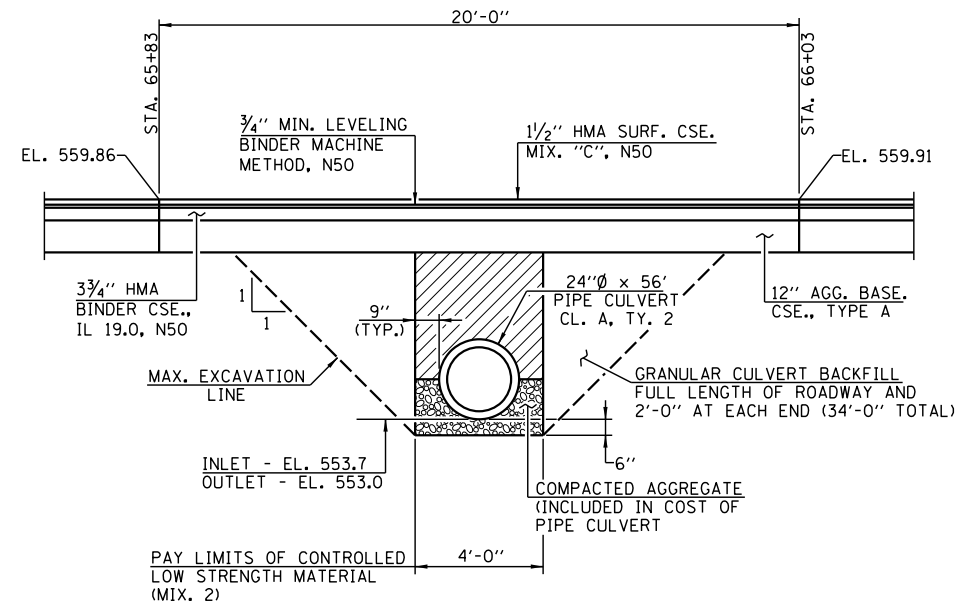
TYPICAL ROADWAY SECTIONS

SCALE: NONE SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	11
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				



LONGITUDINAL SECTION
(CL STA. 66+93)



CULVERT ELEVATION
(CL STA. 66+93 @ RT. L'S)



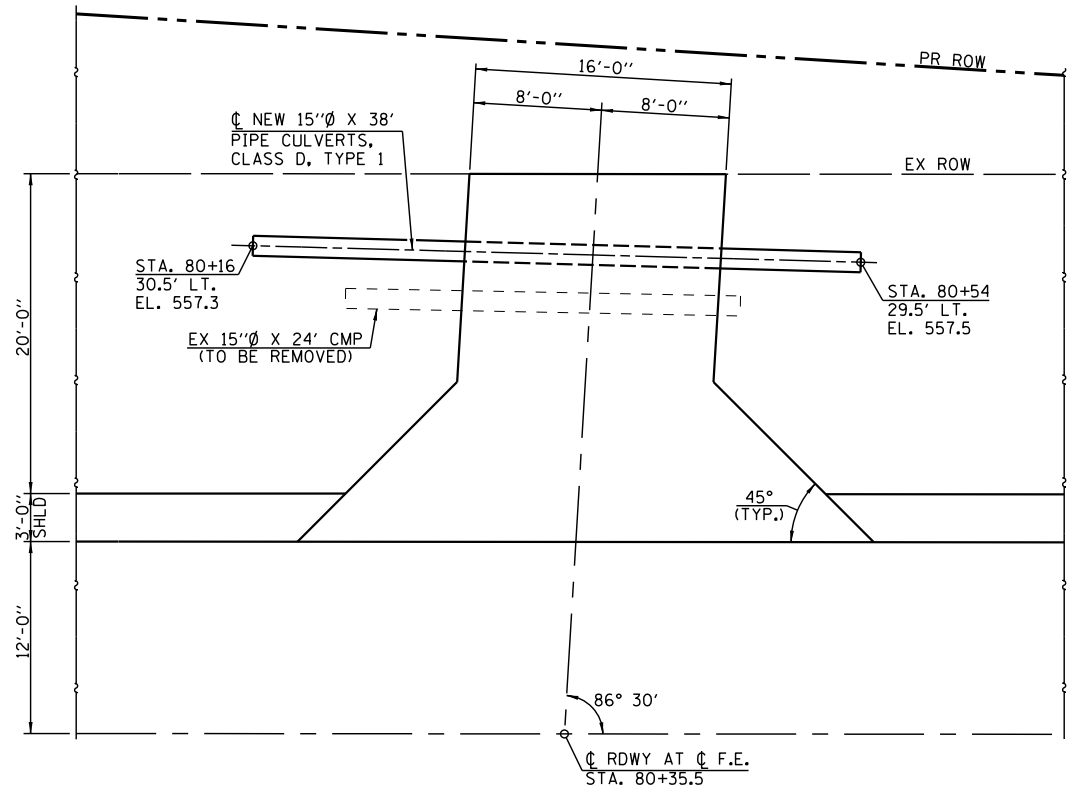
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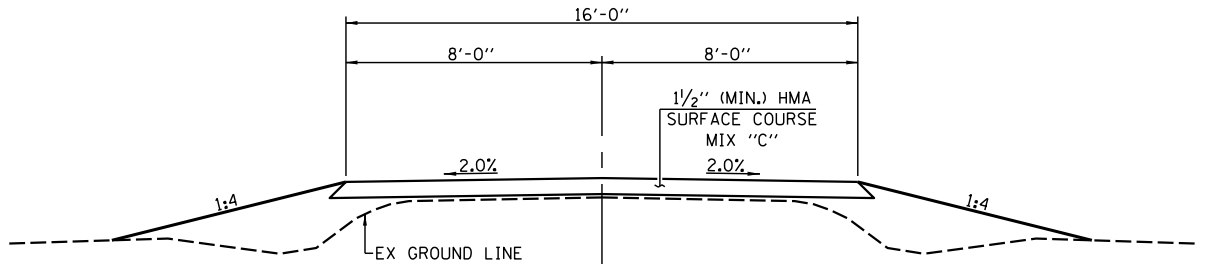
CROSS ROAD
CULVERT DETAILS

SCALE: VARIES SHEET NO. 1 OF 1 SHEETS STA. TO STA.

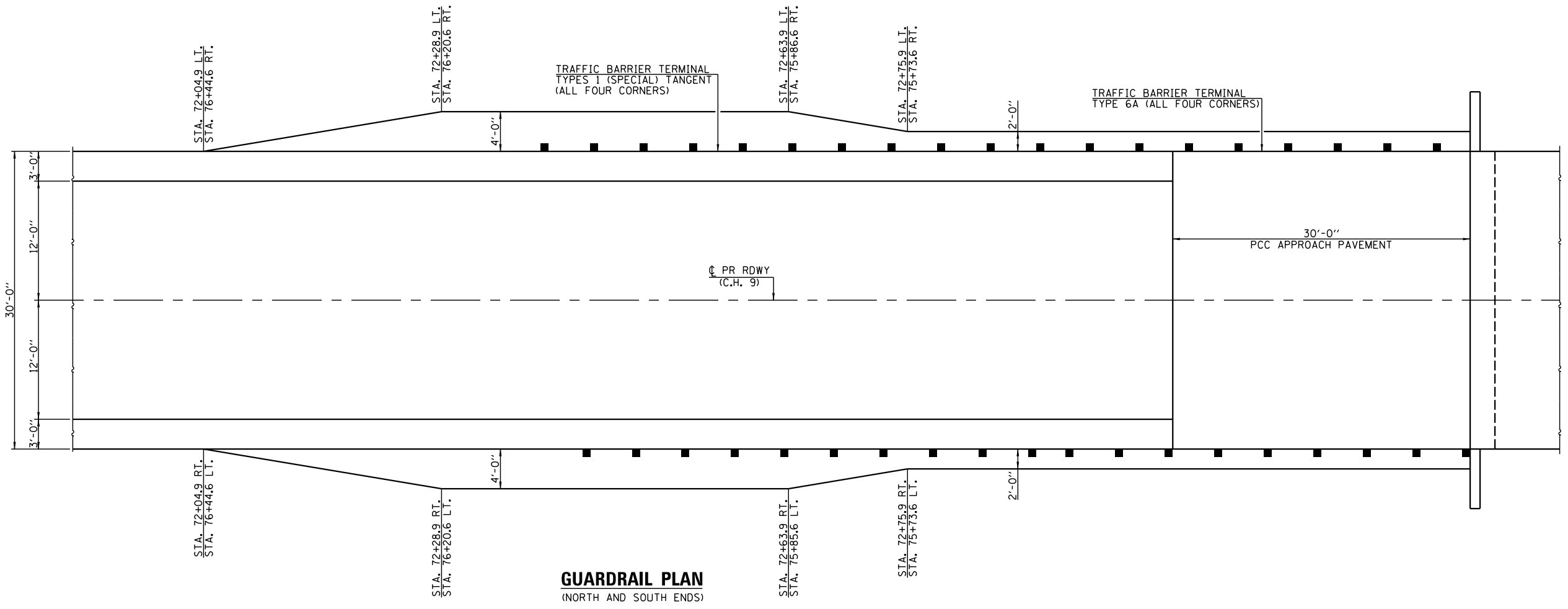
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	12
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				



PLAN
(FE STA. 80+35.5)



TYPICAL SECTION
(FE STA. 80+35.5)



GUARDRAIL PLAN
(NORTH AND SOUTH ENDS)



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE AND GUARDRAIL DETAILS
SCALE: VARIES SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	13
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

HOT MIX ASPHALT SCHEDULE					
LOCATION	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N50	LEVELING BINDER MACHINE (METHOD) N50	HOT-MIX ASPHALT SURFACE COURSE MIX C, N50
	POUND	POUND	TON	TON	TON
STA. 63+70 TO STA. 67+00	1980	396		37	74
STA. 67+00 TO STA. 72+99.67	3896	1170*	337	67	133
STA. 75+49.84 TO STA. 80+00	2926	879*	252	50	100
STA. 80+00 TO STA. 81+30	780	156		15	30
STA. 65+83 TO STA. 66+03 (CULVERT PATCH)			12		
TOTAL	9582	2601	601	169	337

* INCLUDES ONE FOG COAT APPLICATION

PERMANENT SEEDING						
LOCATION	SEEDING CLASS 2	NITROGEN FERT. NUT.	PHOSPHORUS FERT. NUT.	POTASSIUM FERT. NUT.	MULCH METHOD 2	AGRICULTURAL GROUND LIMESTONE
	ACRE	POUND	POUND	POUND	ACRE	TON
STA. 45+00 TO STA. 56+50 RT.	2.50	225	225	225	2.50	5.00
STA. 47+50 TO STA. 56+50 LT.	0.21	19	19	19	0.21	0.42
STA. 56+50 TO STA. 70+50 RT.	3.10	279	279	279	3.10	6.20
STA. 56+50 TO STA. 70+50 LT.	0.65	58	58	58	0.65	1.30
STA. 70+50 TO STA. 81+30 RT.	2.14	193	193	193	2.14	4.28
STA. 70+50 TO STA. 81+30 LT.	1.40	126	126	126	1.40	2.80
TOTAL	10.0	900	900	900	10.0	20

GUARDRAIL SCHEDULE			
LOCATION	TRAFFIC BARRIER TERMINAL TYPE 6A	TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL
	EACH	EACH	FOOT
STA. 72+88.92 TO STA. 73+32.67 LT. & RT.	2		
STA. 75+16.84 TO STA. 75+60 59' LT. & RT.	2		
STA. 72+38.92 TO STA. 72+88.92 LT. & RT.		2	
STA. 75+60.59 TO STA. 76+10.59 LT. & RT.		2	
STA. 72+21.5 TO STA. 72+96.5 LT. & RT.			150
STA. 74+53.5 TO STA. 75+28.5 LT. & RT.			150
TOTAL	4	4	300

TEMPORARY EROSION CONTROL				
LOCATION	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER	TEMPORARY DITCH CHECKS	INLET AND PIPE PROTECTION
	POUND	FOOT	FOOT	EACH
STA. 70+00 125' RT. TO STA. 73+25 260' RT.		405		
STA. 71+00 60' LT. TO STA. 73+75 180' LT.		327		
STA. 75+25 260' RT. TO STA. 79+00 50' RT.		510		
STA. 75+50 180' LT. TO STA. 80+00 45' LT.		603		
STA. 72+95 46' LT.			8	
STA. 75+50 41' LT. & 42' RT.			16	
STA. 78+00 42' LT. & 43' RT.			18	
STA. 65+93 27' LT.				1
STA. 45+00 TO STA. 81+30	1000			
TOTAL	1000	1845	42	1

AGGREGATE BASE COURSE TYPE A	
LOCATION	QUANTITY TON
STA. 67+00 TO STA. 72+99.67	1097
STA. 75+49.84 TO STA. 80+00	824
STA. 65+83 TO STA. 66+03 (CULVERT PATCH)	37
TOTAL	1958

CULVERT SCHEDULE						
LOCATION	PIPE CULVERTS CLASS A TYPE 2 24"	PRECAST REINFORCED CONCRETE FLARED END SECTION 24"	PIPE CULVERTS CLASS D TYPE 1 15"	PIPE CULVERT REMOVAL	CONTROLLED LOW STRENGTH MATERIAL	GRANULAR CULVERT BACKFILL
	FOOT	EACH	FOOT	FOOT	CU. YD.	CU. YD.
STA. 65+93 27' LT. TO STA. 65+93 29' RT.	56					
STA. 65+93 27' LT.		1				
STA. 65+93 29' RT.		1				
STA. 80+16 30.5' LT. TO STA. 80+54 29.5' LT.			38			
STA. 65+93 25' LT. TO STA. 65+93 25' RT.				50		
STA. 80+22 27' LT. TO STA. 80+46 27' LT.				24		
STA. 65+83 TO STA. 66+03					10.6	38
TOTAL	56	2	38	74	10.6	38

PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	
LOCATION	QUANTITY SO. YD.
STA. 72+92.67 TO STA. 73+02.67	34
STA. 75+46.84 TO STA. 75+56.84	34
TOTAL	68

PAVEMENT MARKING		
	PAINT PAVEMENT MARKING LINE-4"	
	SOLID WHITE	SOLID YELLOW
	FOOT	FOOT
STA. 45+00 TO STA. 63+70 RT.	1870	
STA. 63+70 TO STA. 81+30 LT. & RT.	3520	
STA. 63+70 TO STA. 81+30 (DOUBLE CENTERLINE)		3520
SUBTOTAL	5390	3520
TOTAL	8910	

AGGREGATE SHOULDERS, TYPE B	
LOCATION	QUANTITY TON
STA. 63+70 TO STA. 73+02.67 LT. & RT.	197
STA. 75+46.84 TO STA. 81+30 LT. & RT.	123
TOTAL	320



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

QUANTITY SCHEDULES

SCALE: VARIES SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	14
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

EARTHWORK				
LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 47+75 TO STA. 56+00	7747	5810	261	5549
STA. 56+00 TO STA. 70+50	12777	9583	3776	5807
STA. 70+50 TO STA. 73+32.67	3316	2487	5870	-3383
STA. 75+16.84 TO STA. 81+30	338	253	3304	-3051
TOTAL	24178	18133	13211	• 4922

* NO FURNISHED EXCAVATION WILL BE REQUIRED. THE COST FOR THE REMOVAL OF EXCESS EARTH AND CHANNEL EXCAVATION SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

CHANNEL EXCAVATION				
LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 0+00 TO STA. 1+00	294	221	133	88
STA. 1+00 TO STA. 2+00	1923	1442	1391	51
STA. 2+00 TO STA. 3+00	2323	1742	347	1395
STA. 3+00 TO STA. 4+25	1131	848	160	688
TOTAL	5671	4253	2031	** 2222

** EXCESS CHANNEL EXCAVATION REMOVAL TO BE INCLUDED IN COST OF CHANNEL EXCAVATION

PAVEMENT REMOVAL ITEMS			
LOCATION	HOT-MIX ASPHALT SURFACE REMOVAL BUTT-JOINT	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL (VARIABLE DEPTH)
	SO. YD.	SO. YD.	SO. YD.
STA. 63+70 TO STA. 64+00	80		
STA. 81+00 TO STA. 81+30	80		
STA. 67+00 TO STA. 72+96.46		1591	
STA. 74+53.54 TO STA. 80+00		1458	
STA. 64+00 TO STA. 67+00			800
STA. 80+00 TO STA. 81+00			267
TOTAL	160	3049	1067

FURNISHING AND ERECTING RIGHT OF WAY MARKERS	
LOCATION	QUANTITY
	EACH
STA. 47+50 35' RT. & 45' RT.	2
STA. 65+00 35' LT.	1
STA. 70 + 50 45' RT.	1
STA. 72+00 65' LT.	1
STA. 73+00 65' RT.	1
STA. 77+00 65' LT. & 65' RT.	2
STA. 81+00 35' LT, 40' LT., 35' RT.	3
TOTAL	11

LONGITUDINAL JOINT SEALANT	
LOCATION	QUANTITY
	FOOT
STA. 63+70 TO STA. 73+02.67 CENTERLINE	933
STA. 75+46.84 TO STA. 81+30 CENTERLINE	583
TOTAL	1516

STONE DUMPED RIPRAP, CLASS A4 & FILTER FABRIC SCHEDULE		
LOCATION	STONE DUMPED RIPRAP, CLASS A4	FILTER FABRIC
	TON	SO. YD.
STA. 73+07.7 59' RT. TO STA. 73+66.7 45' RT.	384	578
STA. 73+66.7 15' RT. TO STA. 73+88.8 59' RT.	72	108
STA. 73+88.8 59' RT. TO STA. 74+04.8 45' LT.	138	207
STA. 74+04.8 59' RT. TO STA. 74+12.8 45' LT.	210	150
STA. 73+07.7 73' RT. TO STA. 74+04.6 140' RT.	409	615
STA. 73+37.7 73' RT. TO STA. 74+12.6 140' RT.	168	104
STA. 74+36.7 45' LT. TO STA. 74+44.7 180' RT.	325	200
STA. 74+44.7 45' LT. TO STA. 74+60.7 180' RT.	298	448
STA. 74+82.7 45' LT. TO STA. 75 +41.7 45' RT.	350	527
ROADWAY		
STA. 65+88 TO STA. 65+98 34.5' TO 49.5' RT.	13	19
TOTAL	2367	2956

TREE REMOVAL	
LOCATION	QUANTITY
	ACRE
STA. 45+00 84' RT. TO STA. 56+50 110' RT.	1.07
STA. 56+50 70' RT. TO STA. 70+50 125' RT.	1.46
STA. 70+50 69' RT. TO STA. 74+00 260' RT.	0.74
STA. 74+45 260' RT. TO STA. 75+20 260' RT.	0.42
STA. 69+90 40' LT. TO STA. 72+15 41' LT.	0.04
STA. 74+60 50' LT. TO STA. 79+69 50' LT.	0.16
TOTAL	3.89

USE 3.9 ACRE

FENCE REMOVAL	
LOCATION	QUANTITY
	FOOT
STA. 69+92 56' LT. TO STA. 71+15 41' LT.	139
STA. 74+58 44' LT. TO STA. 79+00 41' LT.	442
STA. 74+99 260' RT. TO STA. 75+02 53' RT.	270
TOTAL	851



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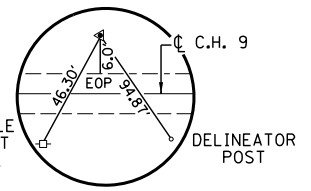
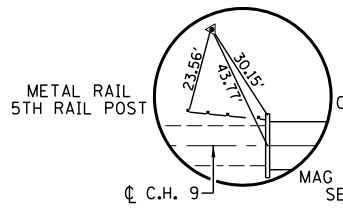
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

QUANTITY SCHEDULES

SCALE: VARIES SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	15
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

SECTION 6, T. 19 N., R. 2 W., 3rd P.M.



CONTROL POINT D
 FOUND IRON ROD
 STA. 46+30 39' LT.
 N. 1260680.51
 E. 2522676.80
 EL. 558.73

CONTROL POINT E
 FOUND IRON ROD
 STA. 55+69 17' LT.
 N. 1259740.97
 E. 2522668.75
 EL. 560.10

MARGARET G. KINCAID
 TRUSTEE ET AL

HAROLD D. PARK
 FAMILY TRUST

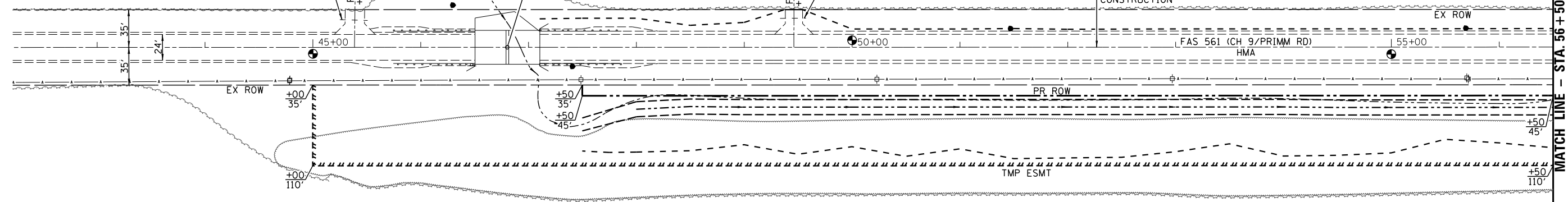
EX 10"Ø X 25' STEEL
 PIPE (TO REMAIN IN
 PLACE)

STA. 46+80.4 - C RDWY. AT C STRUCTURE
 EXIST. 2 - SPAN P.P.C. DECK BEAM STRUCTURE
 58'-0" BK-BK ABUTMENTS WITH CONCRETE AND
 ALUMINUM RAIL, 28'-0" F.-F. CURB
 0° SKEW. (S.N. 054-3014)

EX 15"Ø X 24' CMP
 (TO REMAIN IN PLACE)

C SURVEY &
 CONSTRUCTION

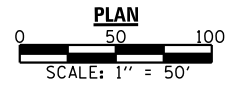
FAS 561 (CH 9/PRIMM RD)
 HMA



JOSEPH JR. & RITA GLEASON

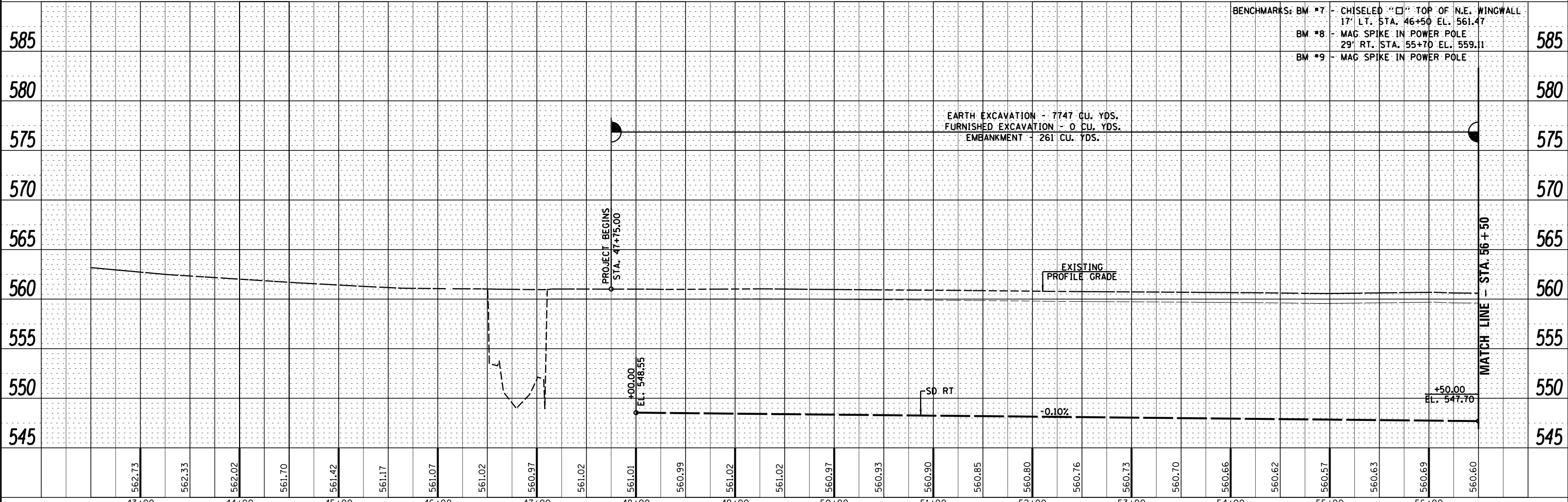
JOSEPH JR. & RITA GLEASON

MATCH LINE - STA. 56+50



● - APPROXIMATE CORE LOCATION

BENCHMARKS: BM #7 - CHISELED "C" TOP OF N.E. WINGWALL
 17' LT. STA. 46+50 EL. 561.47
 BM #8 - MAG SPIKE IN POWER POLE
 29' RT. STA. 55+70 EL. 559.11
 BM #9 - MAG SPIKE IN POWER POLE



MATCH LINE - STA. 56+50

562.73	562.33	562.02	561.70	561.42	561.17	561.07	561.02	560.97	561.02	561.01	560.99	561.02	561.02	560.97	560.93	560.90	560.85	560.80	560.76	560.73	560.70	560.66	560.62	560.57	560.63	560.69	560.60
43+00	44+00	45+00	46+00	47+00	48+00	49+00	50+00	51+00	52+00	53+00	54+00	55+00	56+00														

PLAN	SURVEYED	DATE
NOTE BOOK	BY	
NO.		

PROFILE	SURVEYED	DATE
NOTE BOOK	BY	
NO.		



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	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE

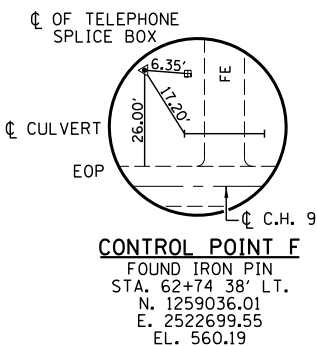
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	16
CONTRACT NO. 93721				

ILLINOIS FED. AID PROJECT

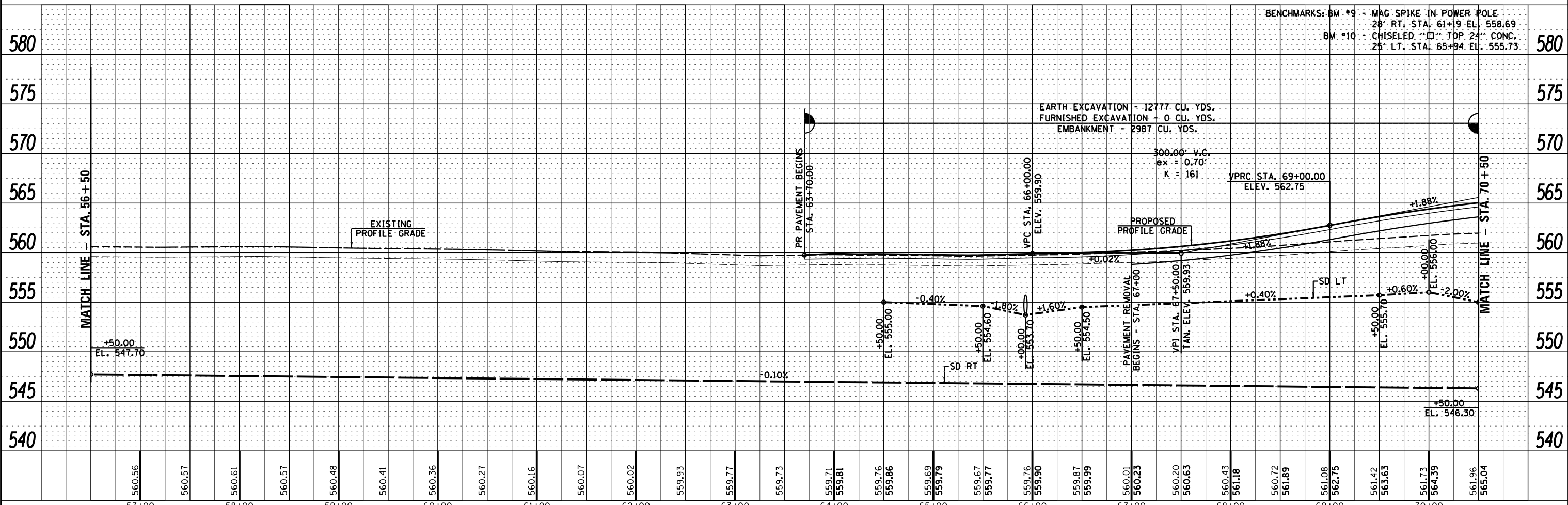
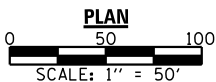
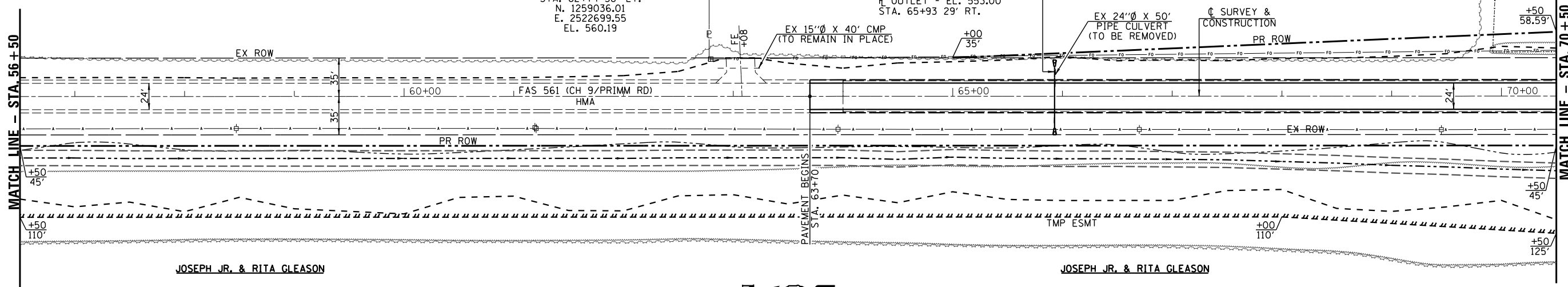
MARGARET G. KINCAID
TRUSTEE ET AL

HAROLD D. PARK
FAMILY TRUST



CONTROL POINT F
FOUND IRON PIN
STA. 62+74 38' LT.
N. 1259036.01
E. 2522699.55
EL. 560.19

INSTALL NEW 24" X 56" PIPE
CULVERTS, CLASS A, TYPE 2
W/ PRCFES
INLET - EL. 553.70
STA. 65+93 27' LT.
OUTLET - EL. 553.00
STA. 65+93 29' RT.



BENCHMARKS: BM #9 - MAG SPIKE IN POWER POLE
28' RT. STA. 61+19 EL. 558.69
BM #10 - CHISELED "C" TOP 24" CONC.
25' LT. STA. 65+94 EL. 555.73

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

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

57+00	58+00	59+00	60+00	61+00	62+00	63+00	64+00	65+00	66+00	67+00	68+00	69+00	70+00
560.56	560.57	560.61	560.57	560.48	560.41	560.36	560.27	560.16	560.07	560.02	559.93	559.77	559.73
559.71	559.81	559.76	559.86	559.69	559.79	559.67	559.77	559.76	559.90	559.87	559.99	560.01	560.23
560.20	560.63	560.43	561.18	560.72	561.89	561.08	562.75	561.42	563.63	561.73	564.39	561.96	565.04

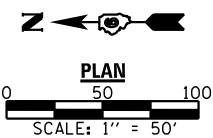
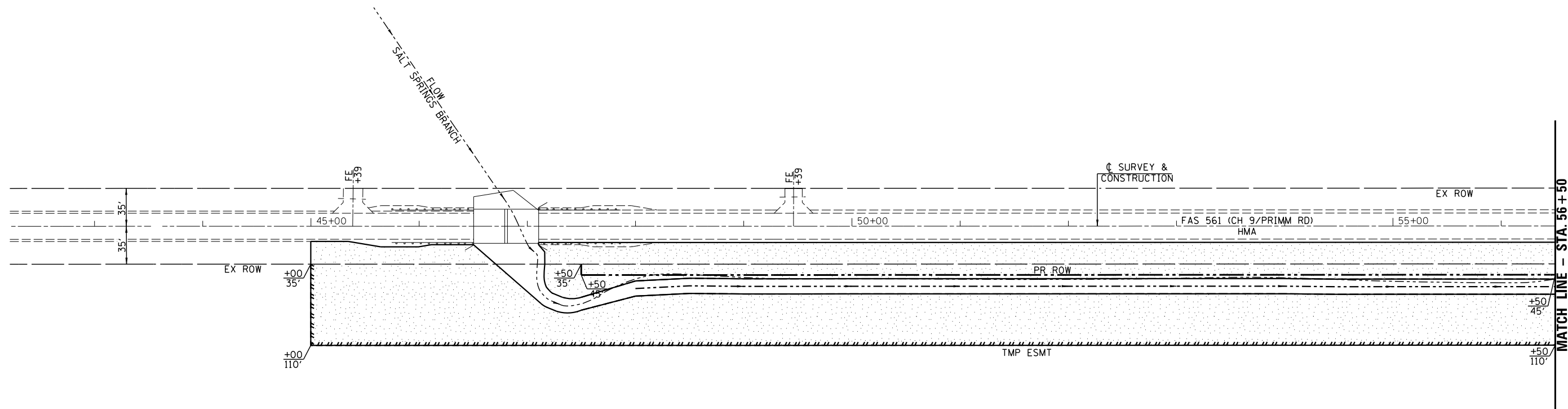
V&K
Veenstra & Kimm, Inc.
Springfield, IL Phone: (217)544-8033

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PLOT DATE = *DATE*	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
SCALE: 1"=50' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.S. R.T.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	17
CONTRACT NO. 93721				ILLINOIS FED. AID PROJECT



- LEGEND**
- INDICATES TEMPORARY DITCH CHECKS
 - INDICATES INLET AND PIPE PROTECTION
 - INDICATES PERIMETER EROSION BARRIER
 - INDICATES TEMPORARY EROSION CONTROL SEEDING



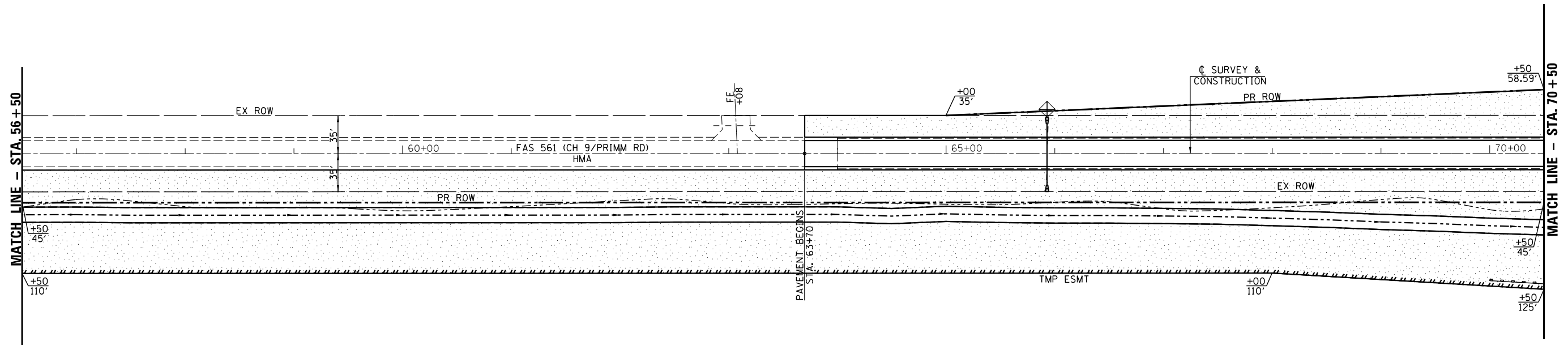
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	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

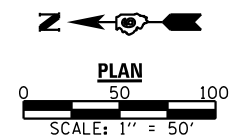
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SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	LOGAN	84	19
CONTRACT NO. 93721			
<small>ILLINOIS FED. AID PROJECT</small>			



LEGEND

- INDICATES TEMPORARY DITCH CHECKS
- INDICATES INLET AND PIPE PROTECTION
- INDICATES PERIMETER EROSION BARRIER
- INDICATES TEMPORARY EROSION CONTROL SEEDING



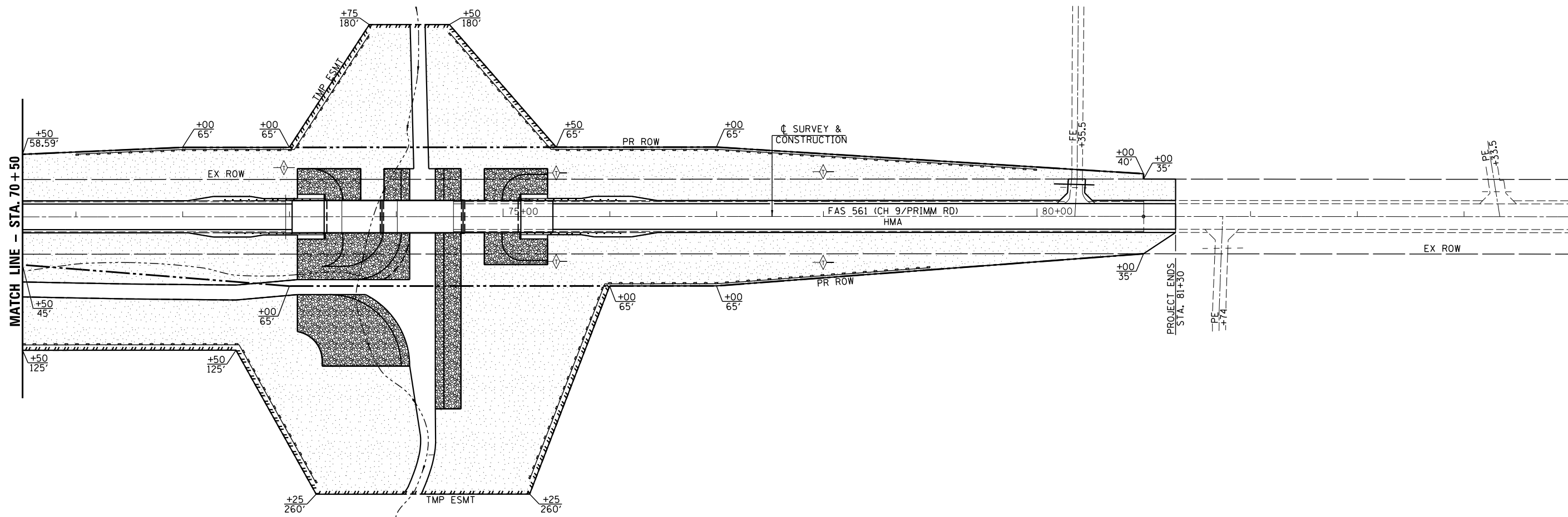
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PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

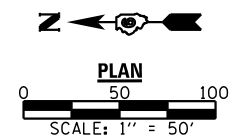
EROSION CONTROL PLAN

SCALE: VARIES SHEET NO. 2 OF 3 SHEETS STA. TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	LOGAN	84	20
CONTRACT NO. 93721			
<small>ILLINOIS FED. AID PROJECT</small>			



- LEGEND**
- INDICATES TEMPORARY DITCH CHECKS
 - INDICATES INLET AND PIPE PROTECTION
 - INDICATES PERIMETER EROSION BARRIER
 - INDICATES TEMPORARY EROSION CONTROL SEEDING



USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: VARIES SHEET NO. 3 OF 3 SHEETS STA. TO STA.

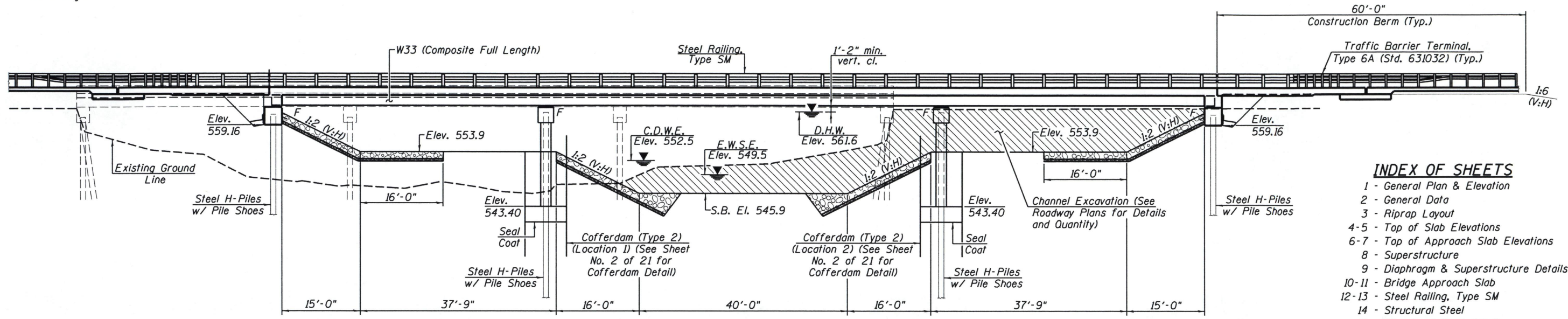
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84 21
CONTRACT NO. 93721			

ILLINOIS FED. AID PROJECT

Bench Mark: BM #11 - Chiseled "□" top of N.E. wingwall of S.N. 054-3016. El. 562.87

Existing Structure: Structure Number 054-3016, built in 1968 as County Highway Route 9, Section 468-B-CA at Station 73+75. Structure consists of three span precast prestressed concrete deck beams supported on spill-thru abutments and pile bent piers. 157'-1" back-to-back abutments. 31'-6" out-to-out deck. Structure to be removed and replaced. Traffic to be detoured.

No Salvage.

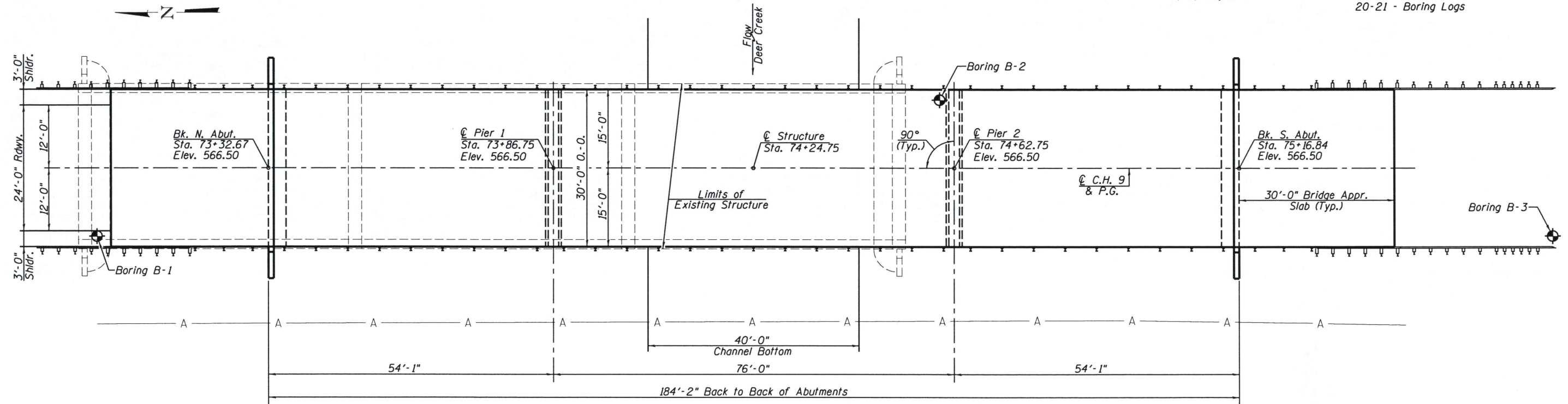


ELEVATION

INDEX OF SHEETS

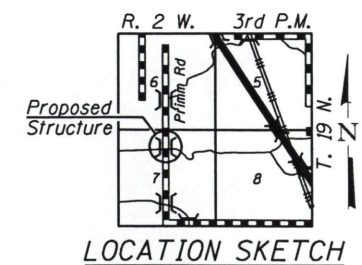
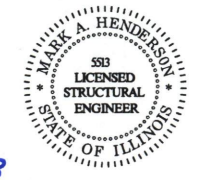
- 1 - General Plan & Elevation
- 2 - General Data
- 3 - Riprap Layout
- 4-5 - Top of Slab Elevations
- 6-7 - Top of Approach Slab Elevations
- 8 - Superstructure
- 9 - Diaphragm & Superstructure Details
- 10-11 - Bridge Approach Slab
- 12-13 - Steel Railing, Type SM
- 14 - Structural Steel
- 15 - Structural Steel Details
- 16 - Bearing Details
- 17 - Abutments
- 18 - Piers
- 19 - HP Pile Details
- 20-21 - Boring Logs

See Sheet 3 of 21 for Riprap Layout



PLAN

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "A.A.S.H.T.O. LRF Design Specifications."
 Mark A. Henderson 1/25/2018
 Expiration Date 11/30/2018



GENERAL PLAN & ELEVATION
C.H. 9 (PRIMM ROAD) OVER DEER CREEK
F.A.S. ROUTE 561 - SEC. 12-00038-06-BR
LOGAN COUNTY
STA. 74+24.75
STRUCTURE NO. 054-3064

<p>Veenstra & Kimm, Inc. Springfield, IL Phone: (217)544-8033</p>	USER NAME * _____	DESIGNED - _____	REVISED - _____	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">GENERAL PLAN & ELEVATION STRUCTURE NO. 054-3064</p>	F.A.S. RTE. 561	SECTION 12-00038-06-BR	COUNTY LOGAN	TOTAL SHEETS 84	SHEET NO. 22
	PLOT SCALE * _____	CHECKED - _____	REVISED - _____			CONTRACT NO. 93721	ILLINOIS FED. AID PROJECT			
PLOT DATE * _____	DRAWN - _____	REVISED - _____	REVISED - _____	SHEET NO. 1 OF 21 SHEETS						

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts $\frac{7}{8}$ " ϕ , holes $1\frac{1}{16}$ " ϕ , unless otherwise noted.

Calculated weight of Structural Steel = 137,770 lbs (M270 Grade 50)
11,200 lbs (M270 Grade 36)

No field welding is permitted except as specified in the contract documents.
Reinforcement bars designated (E) shall be epoxy coated.

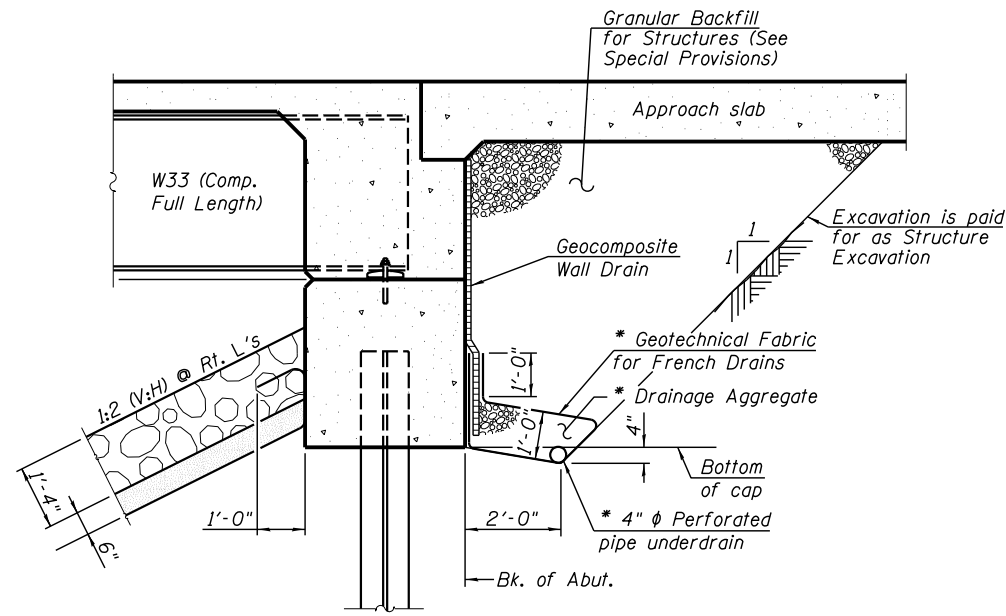
Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of $\frac{1}{8}$ " (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be Gray Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5 YR 3/4.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.

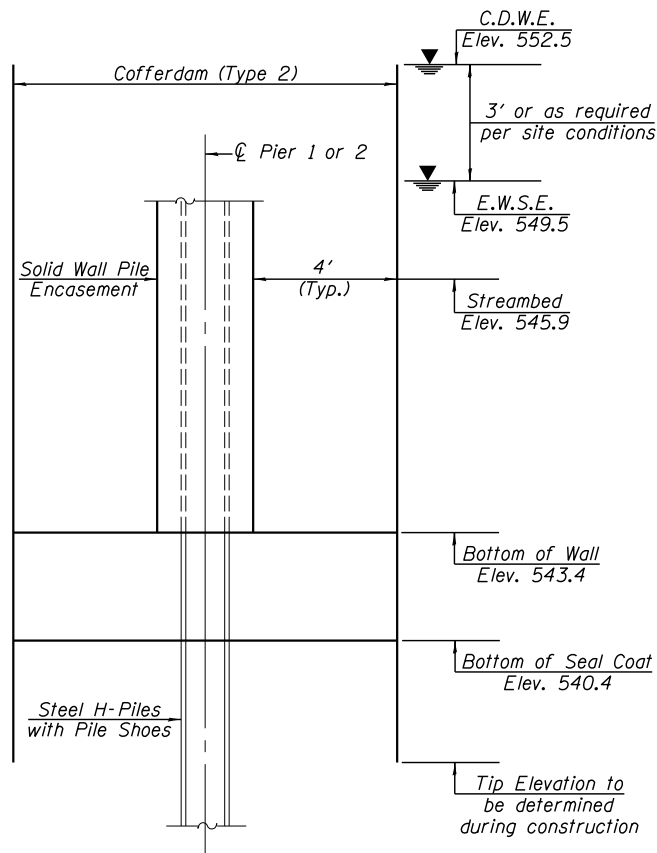


SECTION THRU INTEGRAL ABUTMENT

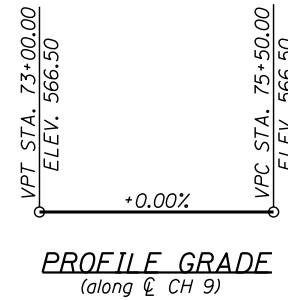
*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

Note:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



COFFERDAM DETAIL



PROFILE GRADE
(along CH 9)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A4	Ton		2,354	2,354
Filter Fabric	Sq. Yd.		2,937	2,937
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		89	89
Cofferdam Excavation	Cu. Yd.		366	366
Cofferdam (Type 2) (Location - 1)	Each		1	1
Cofferdam (Type 2) (Location - 2)	Each		1	1
Concrete Structures	Cu. Yd.		163.4	163.4
Concrete Superstructure	Cu. Yd.	169.9		169.9
Bridge Deck Grooving	Sq. Yd.	807		807
Seal Coat Concrete	Cu. Yd.		89.8	89.8
Protective Coat	Sq. Yd.	887		887
Concrete Superstructure (Approach Slab)	Cu. Yd.	86.7		86.7
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	4,536		4,536
Reinforcement Bars, Epoxy Coated	Pound	76,810	18,540	95,350
Steel Railing, Type SM	Foot	425		425
Furnishing Steel Piles HP 12x63	Foot		665	665
Furnishing Steel Piles HP 14x89	Foot		684	684
Driving Piles	Foot		1,349	1,349
Test Pile Steel HP 12x63	Each		2	2
Pile Shoes	Each		24	24
Name Plates	Each		1	1
Anchor Bolts, 1"	Each	48		48
Geocomposite Wall Drain	Sq. Yd.		54	54
Asbestos Bearing Pad Removal	Each		60	60
Granular Backfill For Structures	Cu. Yd.		108	108
Pipe Underdrains for Structures 4"	Foot		128	128

WATERWAY INFORMATION

Flood		Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.		Headwater El.	
				*Exist. *Prop.		Exist.	Prop.	Exist.	Prop.
Design		10	3790	388/3540 1432/3150	560.9	0.2	0.2	561.1	561.1
Base		25	5060	685/4415 1556/3920	561.6	0.2	0.3	561.8	561.9
Overtop Existing		100	7040	1019/6213 1664/5731	562.3	0.6	0.4	562.8	562.7
Overtop Proposed									
Max. Calc.		500	9470	1426/8390 1726/7810	563.1	0.8	0.6	563.9	563.7

* Bridge / Overtopping 10 year velocity through existing bridge = 3.3 fps
10 year velocity through prop. bridge = 2.8 fps

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevations (ft.)				Item 113
	N. Abut.	Pier 1	Pier 2	S. Abut.	
Q100	559.16	533.00	533.00	559.16	5
Q200	559.16	530.00	530.00	559.16	
Design	559.16	533.00	533.00	559.16	
Check	559.16	530.00	530.00	559.16	

LOADING HL 93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition.

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi (Concrete Substructure)
 f'_c = 5,000 psi (Concrete Superstructure)
 f_y = 60,000 psi (reinforcement)
 f_y = 50,000 psi (M270 Grade 50)
 f_y = 36,000 psi (M270 Grade 36)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.136g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.230g
Soil Site Class = D

DEER CREEK
BUILT 20 BY
LOGAN COUNTY
SEC. 12-00038-06-BR
F.A.S. RT 561 - STA. 74+24.75
LOADING HL93
STR. NO. 054-3064

NAME PLATE

See Std. 515001



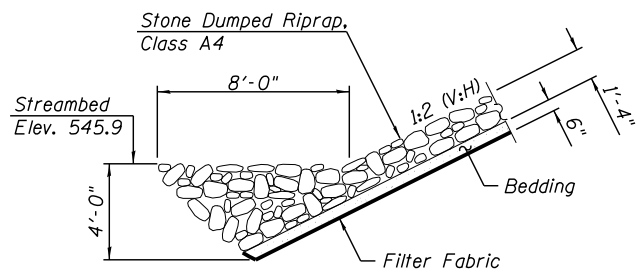
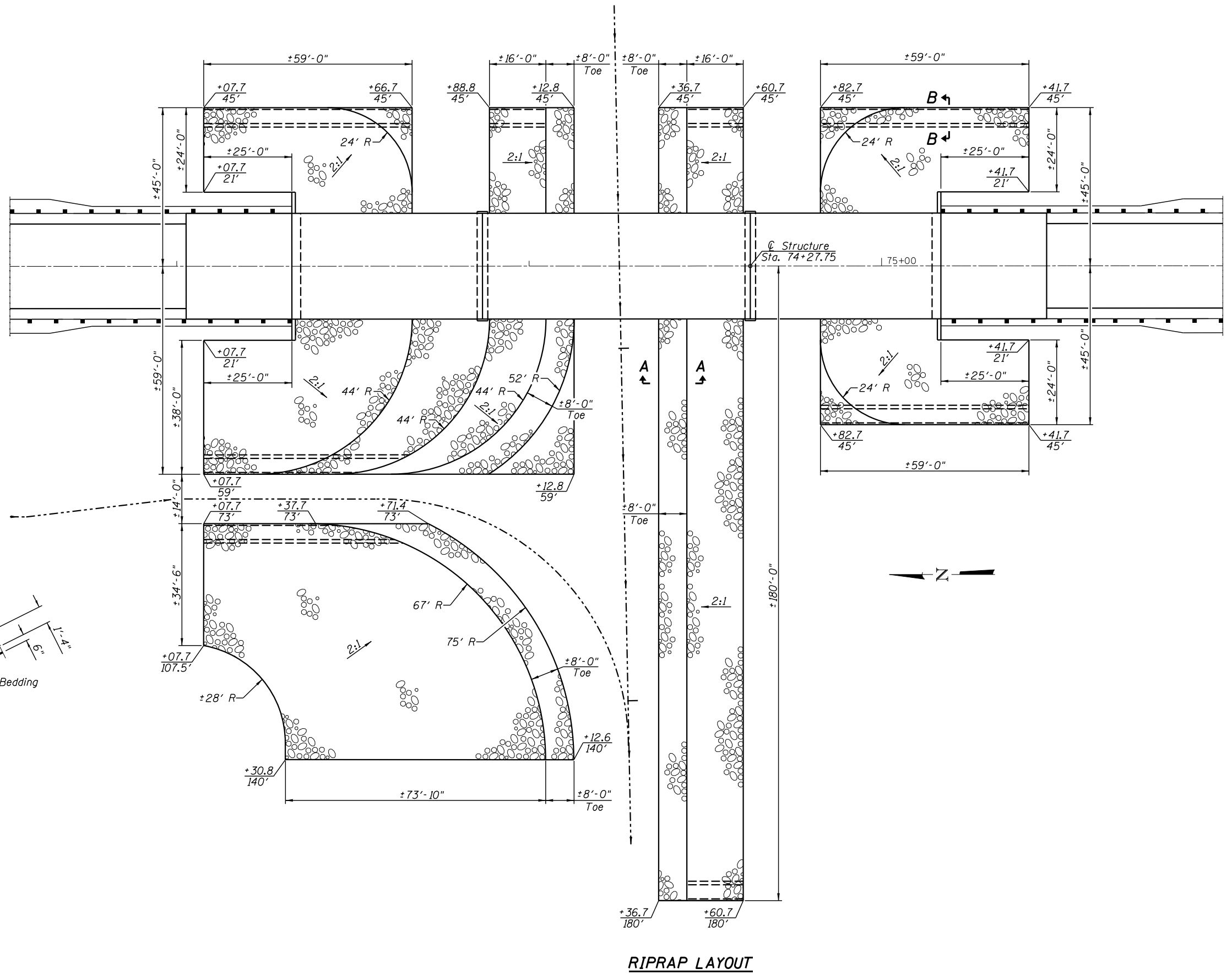
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PLOT DATE =	CHECKED -	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

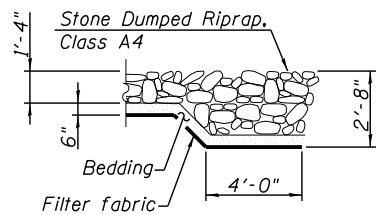
GENERAL DATA
STRUCTURE NO. 054-3064

SHEET NO. 2 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	23
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				



SECTION A-A

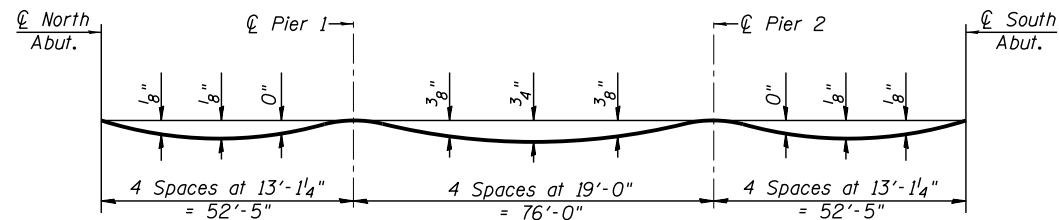


SECTION B-B

RIPRAP LAYOUT

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	24
CONTRACT NO. 93721				

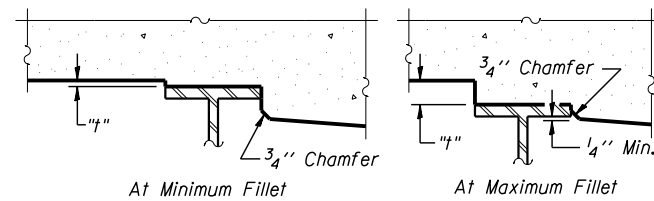


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)

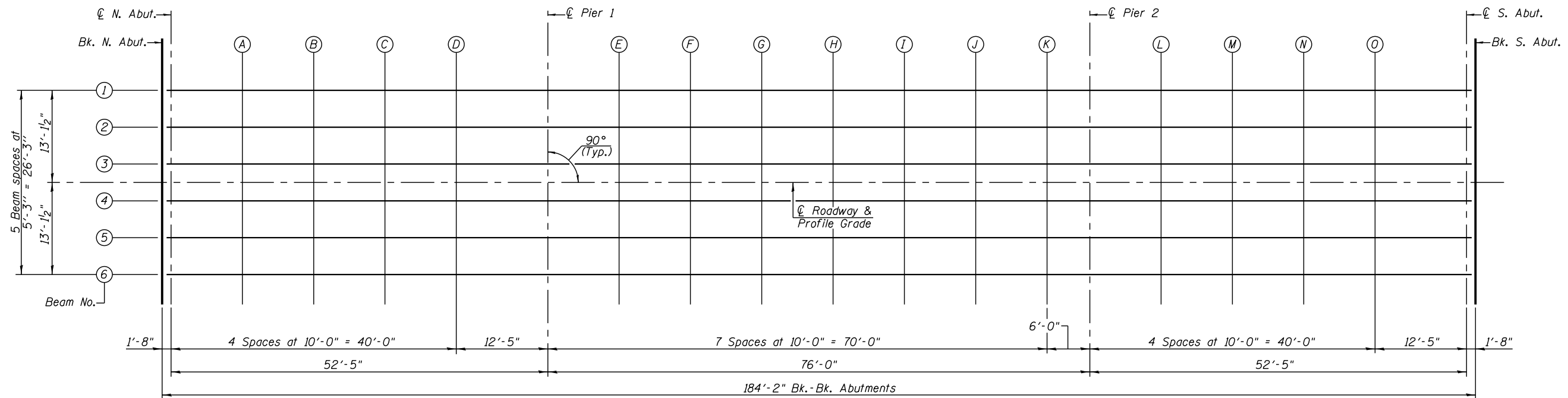
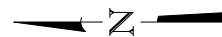
Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 5 of 21.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheet 5 of 21, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	25
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	73+32.67	-13.125	566.30	566.30
☉ N. Abut.	73+34.33	-13.125	566.30	566.30
A	73+44.33	-13.125	566.30	566.31
B	73+54.33	-13.125	566.30	566.31
C	73+64.33	-13.125	566.30	566.31
D	73+74.33	-13.125	566.30	566.30
☉ Pier 1	73+86.75	-13.125	566.30	566.30
E	73+96.75	-13.125	566.30	566.31
F	74+06.75	-13.125	566.30	566.33
G	74+16.75	-13.125	566.30	566.35
H	74+26.75	-13.125	566.30	566.35
I	74+36.75	-13.125	566.30	566.34
J	74+46.75	-13.125	566.30	566.32
K	74+56.75	-13.125	566.30	566.31
☉ Pier 2	74+62.75	-13.125	566.30	566.30
L	74+72.75	-13.125	566.30	566.30
M	74+82.75	-13.125	566.30	566.30
N	74+92.75	-13.125	566.30	566.31
O	75+02.75	-13.125	566.30	566.31
☉ S. Abut.	75+15.17	-13.125	566.30	566.30
Bk. S. Abut.	75+16.84	-13.125	566.30	566.30

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	73+32.67	-7.875	566.38	566.38
☉ N. Abut.	73+34.33	-7.875	566.38	566.38
A	73+44.33	-7.875	566.38	566.39
B	73+54.33	-7.875	566.38	566.39
C	73+64.33	-7.875	566.38	566.39
D	73+74.33	-7.875	566.38	566.38
☉ Pier 1	73+86.75	-7.875	566.38	566.38
E	73+96.75	-7.875	566.38	566.40
F	74+06.75	-7.875	566.38	566.42
G	74+16.75	-7.875	566.38	566.43
H	74+26.75	-7.875	566.38	566.43
I	74+36.75	-7.875	566.38	566.43
J	74+46.75	-7.875	566.38	566.41
K	74+56.75	-7.875	566.38	566.39
☉ Pier 2	74+62.75	-7.875	566.38	566.38
L	74+72.75	-7.875	566.38	566.38
M	74+82.75	-7.875	566.38	566.39
N	74+92.75	-7.875	566.38	566.39
O	75+02.75	-7.875	566.38	566.39
☉ S. Abut.	75+15.17	-7.875	566.38	566.38
Bk. S. Abut.	75+16.84	-7.875	566.38	566.38

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	73+32.67	-2.625	566.46	566.46
☉ N. Abut.	73+34.33	-2.625	566.46	566.46
A	73+44.33	-2.625	566.46	566.47
B	73+54.33	-2.625	566.46	566.47
C	73+64.33	-2.625	566.46	566.47
D	73+74.33	-2.625	566.46	566.46
☉ Pier 1	73+86.75	-2.625	566.46	566.46
E	73+96.75	-2.625	566.46	566.48
F	74+06.75	-2.625	566.46	566.49
G	74+16.75	-2.625	566.46	566.51
H	74+26.75	-2.625	566.46	566.51
I	74+36.75	-2.625	566.46	566.50
J	74+46.75	-2.625	566.46	566.49
K	74+56.75	-2.625	566.46	566.47
☉ Pier 2	74+62.75	-2.625	566.46	566.46
L	74+72.75	-2.625	566.46	566.46
M	74+82.75	-2.625	566.46	566.47
N	74+92.75	-2.625	566.46	566.47
O	75+02.75	-2.625	566.46	566.47
☉ S. Abut.	75+15.17	-2.625	566.46	566.46
Bk. S. Abut.	75+16.84	-2.625	566.46	566.46

☉ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	73+32.67	0.00	566.50	566.50
☉ N. Abut.	73+34.33	0.00	566.50	566.50
A	73+44.33	0.00	566.50	566.51
B	73+54.33	0.00	566.50	566.51
C	73+64.33	0.00	566.50	566.51
D	73+74.33	0.00	566.50	566.51
☉ Pier 1	73+86.75	0.00	566.50	566.50
E	73+96.75	0.00	566.50	566.51
F	74+06.75	0.00	566.50	566.53
G	74+16.75	0.00	566.50	566.55
H	74+26.75	0.00	566.50	566.55
I	74+36.75	0.00	566.50	566.54
J	74+46.75	0.00	566.50	566.53
K	74+56.75	0.00	566.50	566.51
☉ Pier 2	74+62.75	0.00	566.50	566.50
L	74+72.75	0.00	566.50	566.50
M	74+82.75	0.00	566.50	566.51
N	74+92.75	0.00	566.50	566.51
O	75+02.75	0.00	566.50	566.51
☉ S. Abut.	75+15.17	0.00	566.50	566.50
Bk. S. Abut.	75+16.84	0.00	566.50	566.50

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	73+32.67	2.625	566.46	566.46
☉ N. Abut.	73+34.33	2.625	566.46	566.46
A	73+44.33	2.625	566.46	566.47
B	73+54.33	2.625	566.46	566.47
C	73+64.33	2.625	566.46	566.47
D	73+74.33	2.625	566.46	566.46
☉ Pier 1	73+86.75	2.625	566.46	566.46
E	73+96.75	2.625	566.46	566.48
F	74+06.75	2.625	566.46	566.49
G	74+16.75	2.625	566.46	566.51
H	74+26.75	2.625	566.46	566.51
I	74+36.75	2.625	566.46	566.50
J	74+46.75	2.625	566.46	566.49
K	74+56.75	2.625	566.46	566.47
☉ Pier 2	74+62.75	2.625	566.46	566.46
L	74+72.75	2.625	566.46	566.46
M	74+82.75	2.625	566.46	566.47
N	74+92.75	2.625	566.46	566.47
O	75+02.75	2.625	566.46	566.47
☉ S. Abut.	75+15.17	2.625	566.46	566.46
Bk. S. Abut.	75+16.84	2.625	566.46	566.46

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	73+32.67	7.875	566.38	566.38
☉ N. Abut.	73+34.33	7.875	566.38	566.38
A	73+44.33	7.875	566.38	566.39
B	73+54.33	7.875	566.38	566.39
C	73+64.33	7.875	566.38	566.39
D	73+74.33	7.875	566.38	566.38
☉ Pier 1	73+86.75	7.875	566.38	566.38
E	73+96.75	7.875	566.38	566.40
F	74+06.75	7.875	566.38	566.42
G	74+16.75	7.875	566.38	566.43
H	74+26.75	7.875	566.38	566.43
I	74+36.75	7.875	566.38	566.43
J	74+46.75	7.875	566.38	566.41
K	74+56.75	7.875	566.38	566.39
☉ Pier 2	74+62.75	7.875	566.38	566.38
L	74+72.75	7.875	566.38	566.38
M	74+82.75	7.875	566.38	566.39
N	74+92.75	7.875	566.38	566.39
O	75+02.75	7.875	566.38	566.39
☉ S. Abut.	75+15.17	7.875	566.38	566.38
Bk. S. Abut.	75+16.84	7.875	566.38	566.38

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	73+32.67	13.125	566.30	566.30
☉ N. Abut.	73+34.33	13.125	566.30	566.30
A	73+44.33	13.125	566.30	566.31
B	73+54.33	13.125	566.30	566.31
C	73+64.33	13.125	566.30	566.31
D	73+74.33	13.125	566.30	566.30
☉ Pier 1	73+86.75	13.125	566.30	566.30
E	73+96.75	13.125	566.30	566.31
F	74+06.75	13.125	566.30	566.33
G	74+16.75	13.125	566.30	566.35
H	74+26.75	13.125	566.30	566.35
I	74+36.75	13.125	566.30	566.34
J	74+46.75	13.125	566.30	566.32
K	74+56.75	13.125	566.30	566.31
☉ Pier 2	74+62.75	13.125	566.30	566.30
L	74+72.75	13.125	566.30	566.30
M	74+82.75	13.125	566.30	566.30
N	74+92.75	13.125	566.30	566.31
O	75+02.75	13.125	566.30	566.31
☉ S. Abut.	75+15.17	13.125	566.30	566.30
Bk. S. Abut.	75+16.84	13.125	566.30	566.30



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DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 054-3064

SHEET NO. 5 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	26
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

EAST EDGE OF APPR. SLAB

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	73+03.67	-15.00	566.26
A1	73+13.67	-15.00	566.26
A2	73+23.67	-15.00	566.26
S. End of N. Appr. Slab	73+33.67	-15.00	566.26

EAST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	73+03.67	-12.00	566.32
A1	73+13.67	-12.00	566.32
A2	73+23.67	-12.00	566.32
S. End of N. Appr. Slab	73+33.67	-12.00	566.32

☉ ROADWAY & PROFILE GRADE

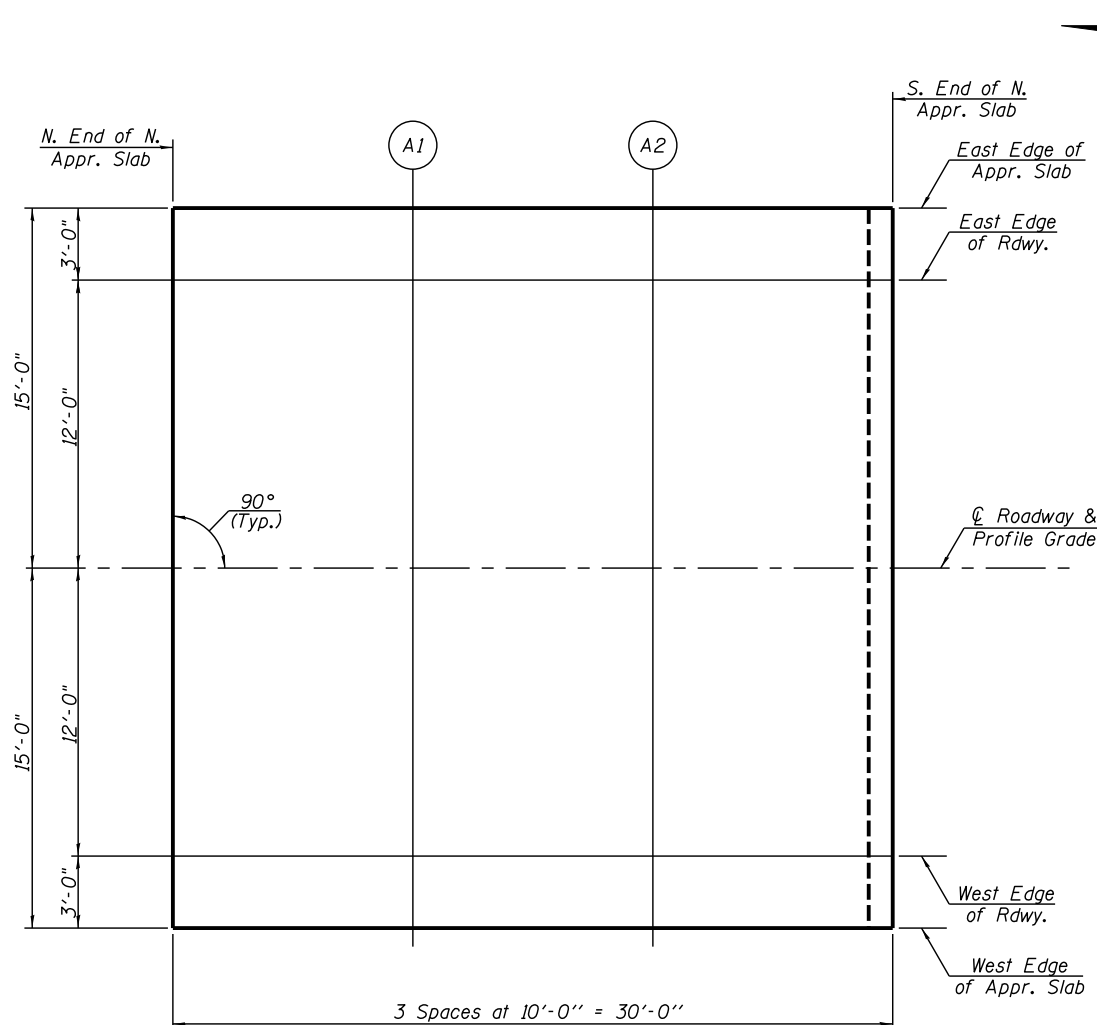
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	73+03.67	0.00	566.50
A1	73+13.67	0.00	566.50
A2	73+23.67	0.00	566.50
S. End of N. Appr. Slab	73+33.67	0.00	566.50

WEST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	73+03.67	12.00	566.32
A1	73+13.67	12.00	566.32
A2	73+23.67	12.00	566.32
S. End of N. Appr. Slab	73+33.67	12.00	566.32

WEST EDGE OF APPR. SLAB

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	73+03.67	15.00	566.26
A1	73+13.67	15.00	566.26
A2	73+23.67	15.00	566.26
S. End of N. Appr. Slab	73+33.67	15.00	566.26



PLAN



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 054-3064**

SHEET NO. 6 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	27
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

EAST EDGE OF APPR. SLAB

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	75+15.84	-15.00	566.26
A3	75+25.84	-15.00	566.26
A4	75+35.84	-15.00	566.26
S. End of S. Appr. Slab	75+45.84	-15.00	566.26

EAST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	75+15.84	-12.00	566.32
A3	75+25.84	-12.00	566.32
A4	75+35.84	-12.00	566.32
S. End of S. Appr. Slab	75+45.84	-12.00	566.32

☉ ROADWAY & PROFILE GRADE

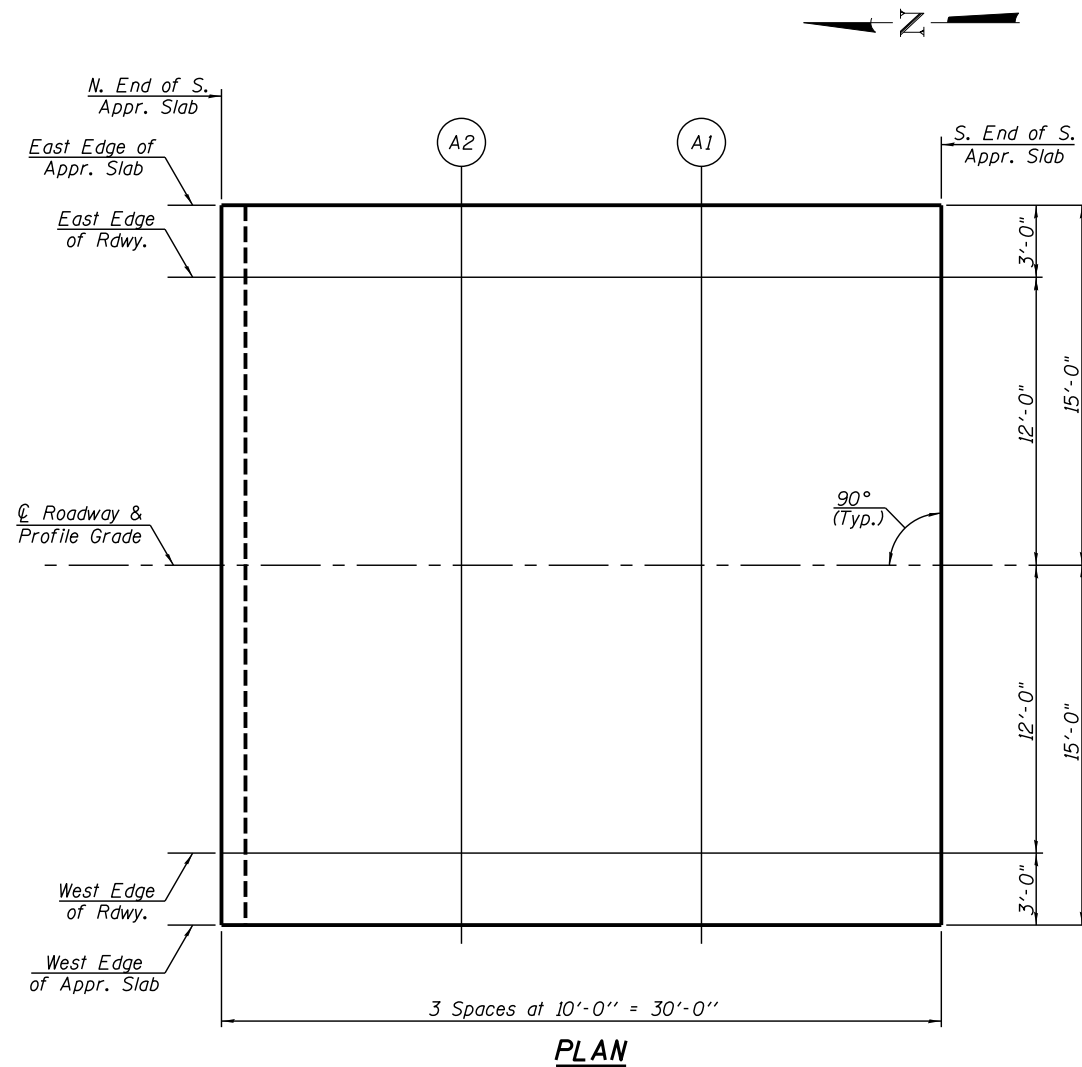
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	75+15.84	0.00	566.50
A3	75+25.84	0.00	566.50
A4	75+35.84	0.00	566.50
S. End of S. Appr. Slab	75+45.84	0.00	566.50

WEST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	75+15.84	12.00	566.32
A3	75+25.84	12.00	566.32
A4	75+35.84	12.00	566.32
S. End of S. Appr. Slab	75+45.84	12.00	566.32

WEST EDGE OF APPR. SLAB

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	75+15.84	15.00	566.26
A3	75+25.84	15.00	566.26
A4	75+35.84	15.00	566.26
S. End of S. Appr. Slab	75+45.84	15.00	566.26



PLAN



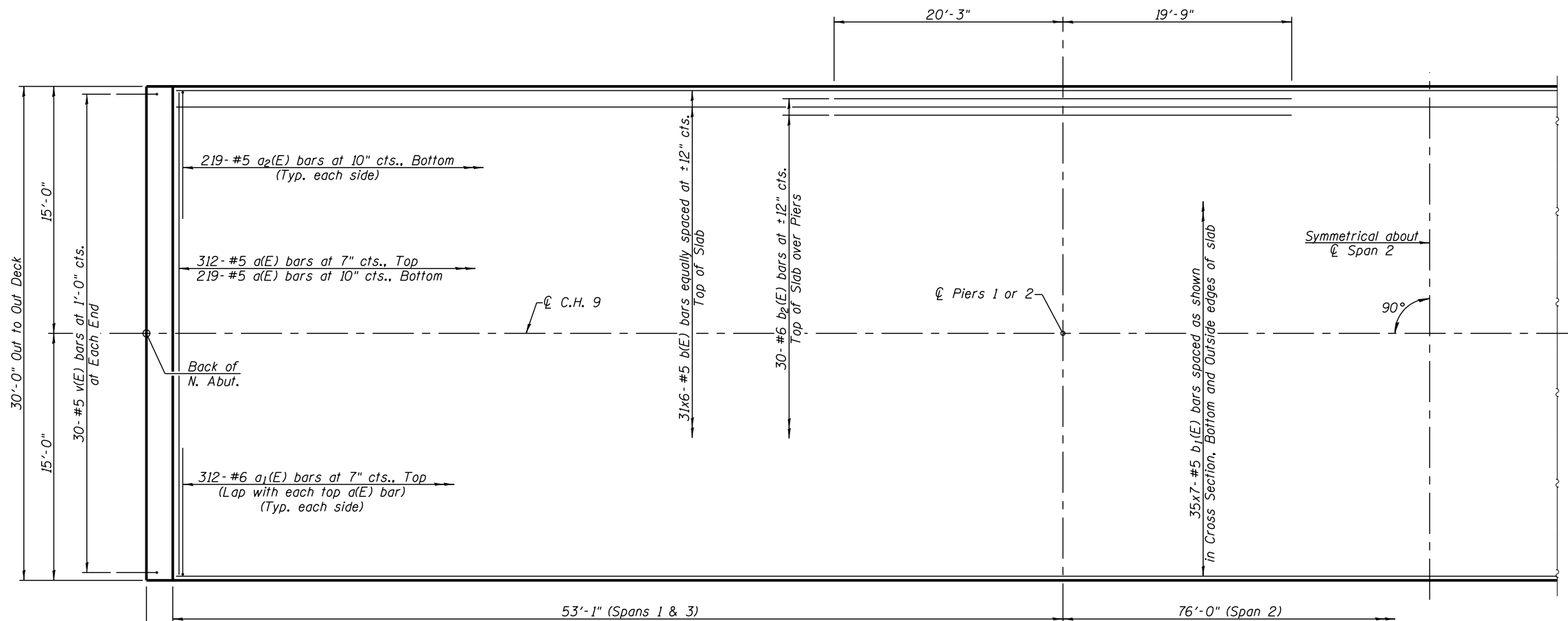
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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

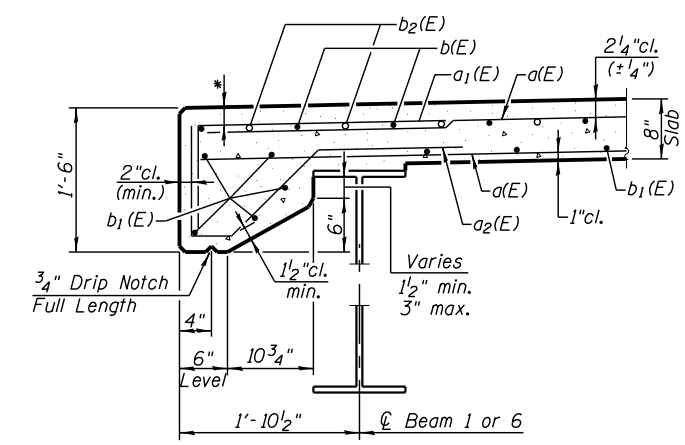
**TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 054-3064**

SHEET NO. 7 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	28
				CONTRACT NO. 93721
ILLINOIS FED. AID PROJECT				



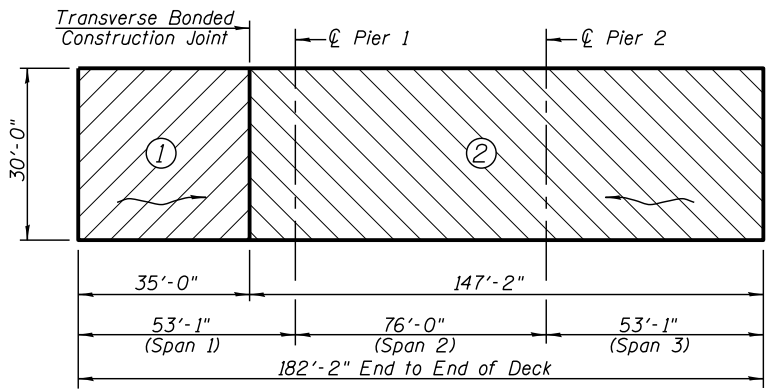
*Reinforcement bars in the deck shall be placed with a 2" minimum clearance in the area of the rail post anchor devices. The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



SECTION THRU EDGE OF SLAB
(Near Pier)
(Railing Not Shown For Clarity)

HALF PLAN

MINIMUM BAR LAP
#5 bar = 3'-6"



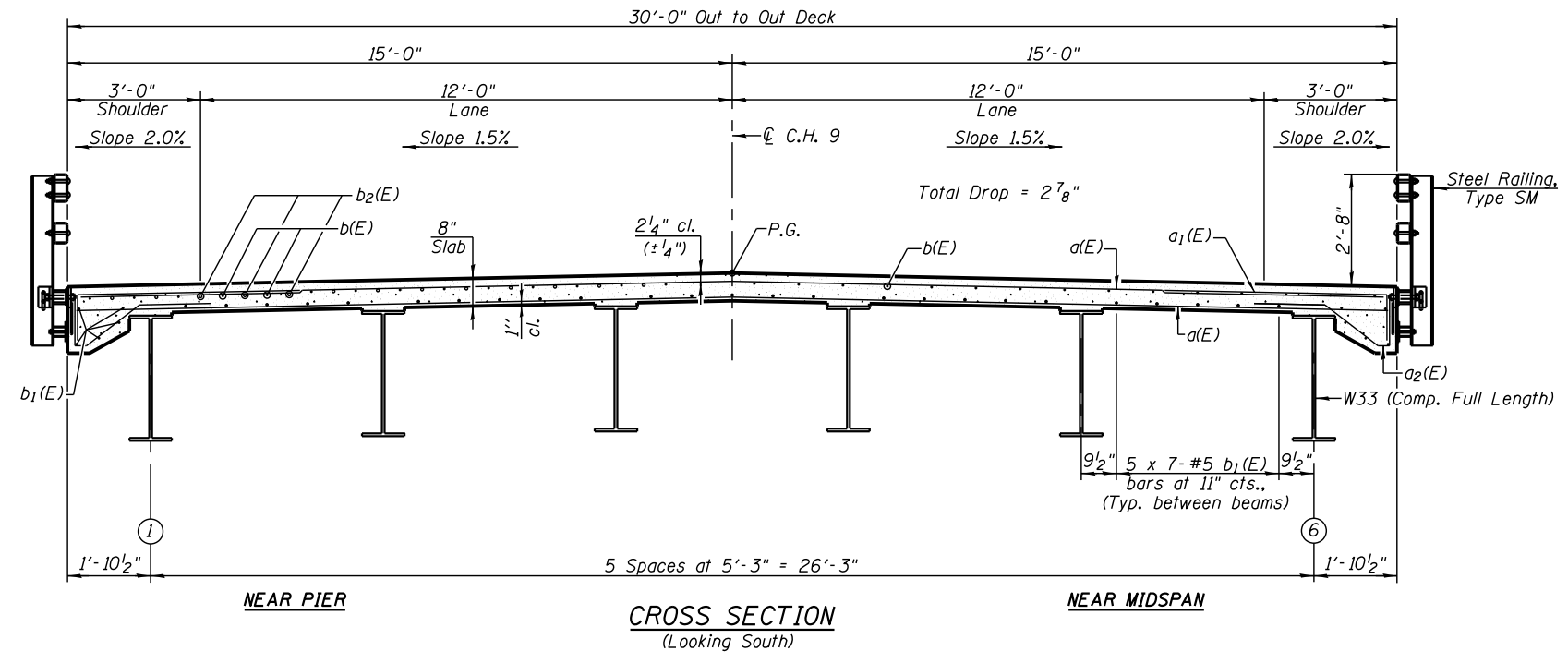
DECK POURING SEQUENCE PLAN

- Notes:
- 1.) The concrete deck segments shall be poured in the numerical order and the directions shown above to avoid uplift at an abutment. The deck pour may be revised with Pour 1 starting at the south abutment and extending toward Pier 2.
 - 2.) When the deck pour is stopped for the day at one or more of the transverse bonded construction joints in the deck pouring sequence as shown, the next pour shall not be made until both of the following are met.
 1. At least 72 hours shall have elapsed from the end of the previous pour.
 2. The concrete strength shall have attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.
 - 3.) The Contractor may pour the deck starting at an abutment location and proceed to the opposite abutment without stopping. However, the Contractor shall provide counterweights, or other measures, at the opposite abutment to resist uplift forces. The counterweights or other measures shall be designed for the following LRFD Strength I uplift force: 1.0 k per beam (or a total of 6 kips at the opposite abutment).

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	531	#5	29'-8"	—
a ₁ (E)	624	#6	7'-3"	—
a ₂ (E)	438	#5	6'-7"	—
b(E)	186	#5	34'-2"	—
b ₁ (E)	245	#5	29'-6"	—
b ₂ (E)	60	#6	40'-0"	—
m(E)	8	#6	29'-8"	—
m ₁ (E)	30	#6	4'-10"	—
m ₂ (E)	12	#6	1'-6"	—
m ₃ (E)	36	#5	4'-0"	—
s(E)	68	#5	7'-5"	□
s ₁ (E)	68	#5	9'-8"	□
v(E)	60	#5	3'-3"	┌
Concrete Superstructure			Cu. Yd.	169.9
Reinforcement Bars, Epoxy Coated			Pound	46,180

Notes:
See sheet 9 of 21 for diaphragm details, bar details, and Bill of Material.
Bars indicated thus 31 x 6-#5 etc. indicates 31 lines of bars with 6 lengths per line.
Protective coat shall be applied to the top and outside vertical faces of the deck and approach slab.



CROSS SECTION
(Looking South)



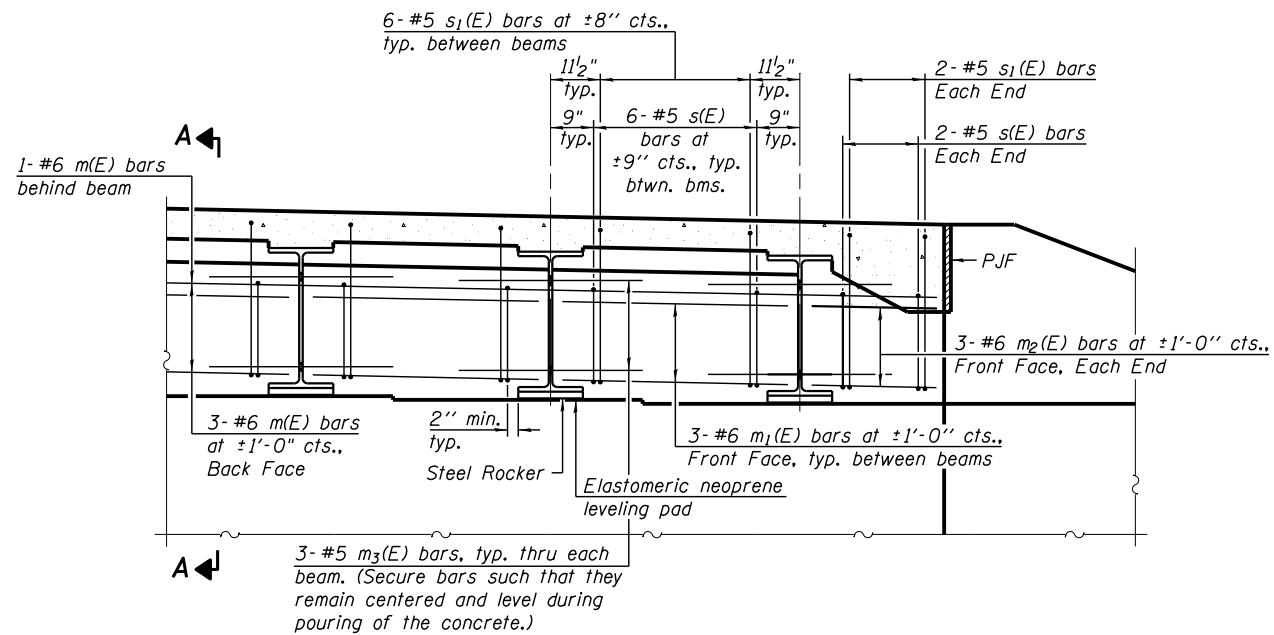
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	CHECKED -	REVISED -

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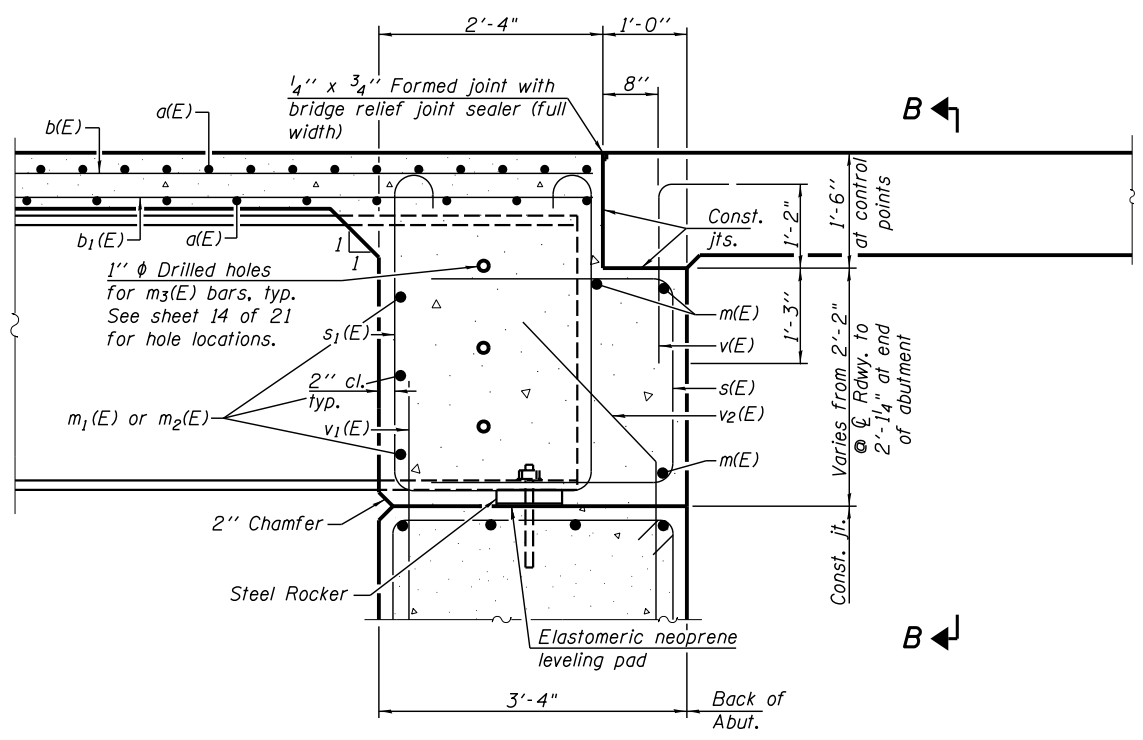
SUPERSTRUCTURE
STRUCTURE NO. 054-3064

SHEET NO. 8 OF 21 SHEETS

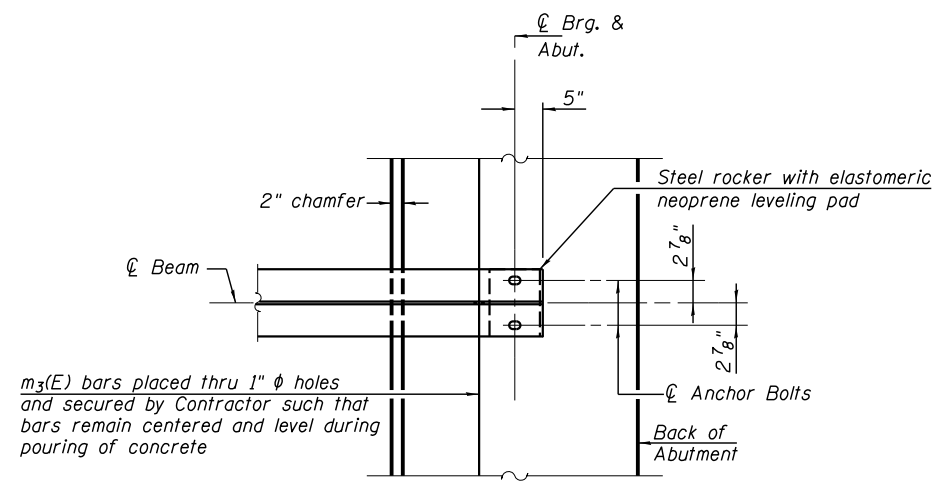
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	29
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				



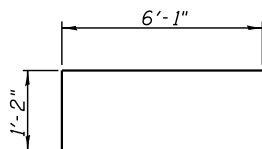
DIAPHRAGM ELEVATION AT ABUTMENT



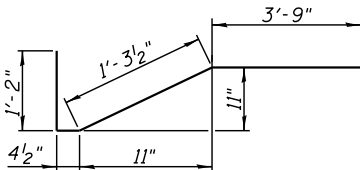
SECTION A-A



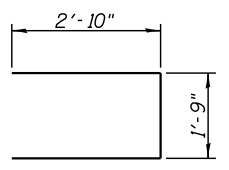
PARTIAL PLAN AT ABUTMENT
(Showing bottom flange of beam)



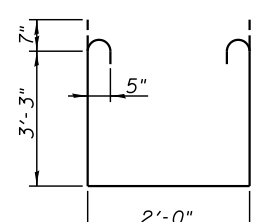
BAR a1(E)



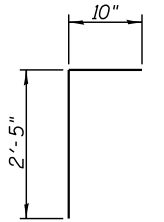
BAR a2(E)



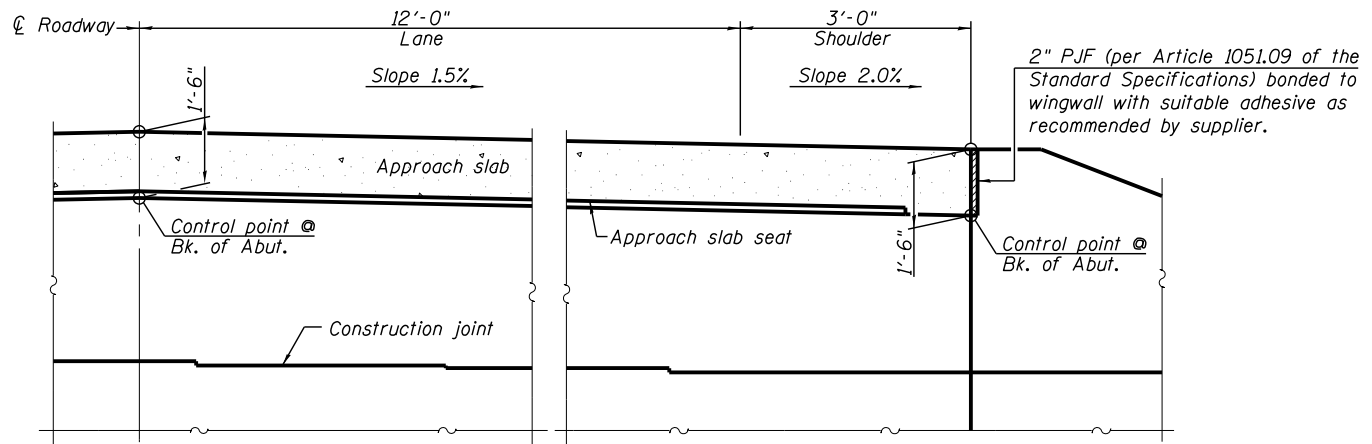
BAR s(E)



BAR s1(E)



BAR v(E)



SECTION B-B

Notes:
 Reinforcement bars in diaphragm are billed with superstructure on Sheet 8 of 21.
 Concrete in diaphragm is included with Concrete Superstructure on Sheet 8 of 21.
 The approach slab seat shall have a constant slope determined from the control points shown.
 For bearing details see Sheet 16 of 21.

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8-31-12



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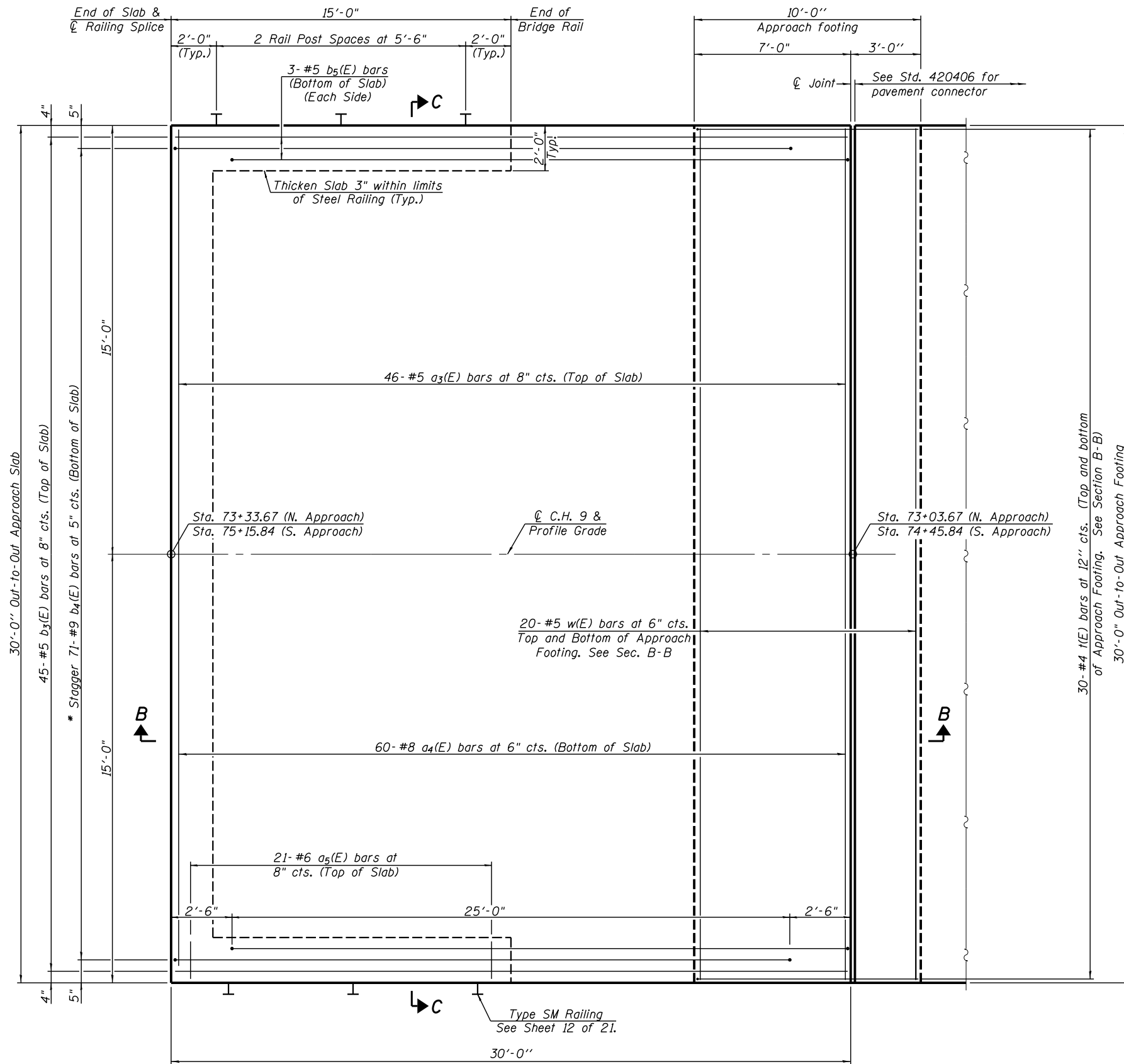
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM & SUPERSTRUCTURE DETAILS
STRUCTURE NO. 054-3064

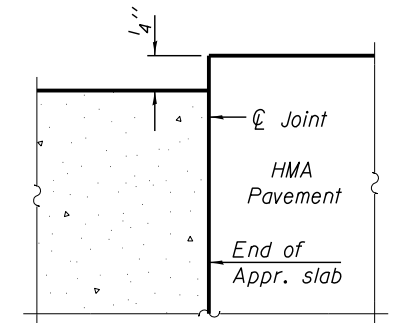
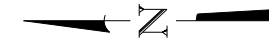
SHEET NO. 9 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	30
CONTRACT NO. 93721				

ILLINOIS FED. AID PROJECT



Notes:
 See Sheet 11 of 21 for Sections B-B & C-C.
 See Sheets 12 and 13 of 21 for Railing & Railing Connection Details.
 $a_3(E)$, $a_4(E)$ bar spacings measured along C Rdwy .



FLEXIBLE PAVEMENT

DETAIL A

PLAN

(South Approach shown)

* Tilt #9 $b_4(E)$ bars as required to maintain clearance.

(Sheet 1 of 2)



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PLOT DATE =	CHECKED -	REVISED -

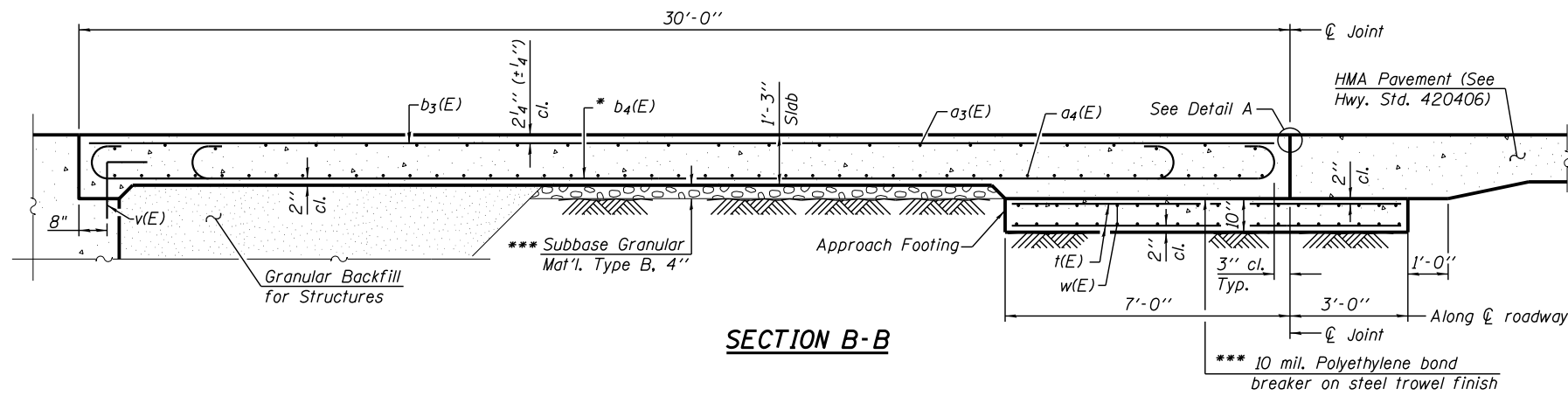
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB
 STRUCTURE NO. 054-3064**

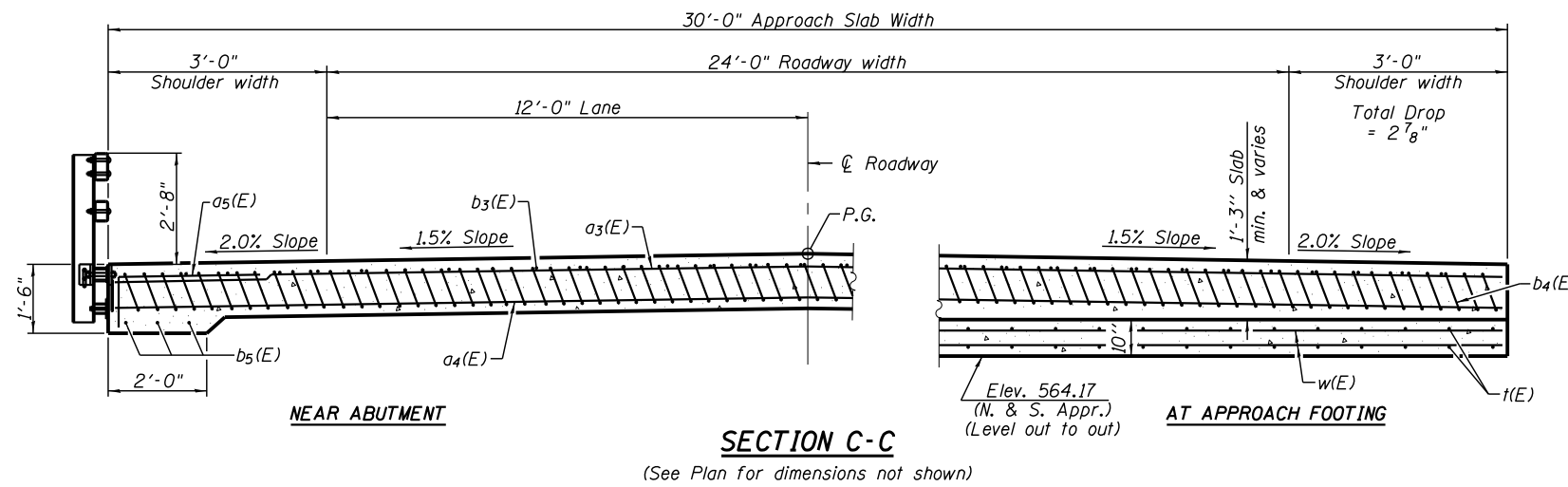
SHEET NO. 10 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	31
CONTRACT NO. 93721				

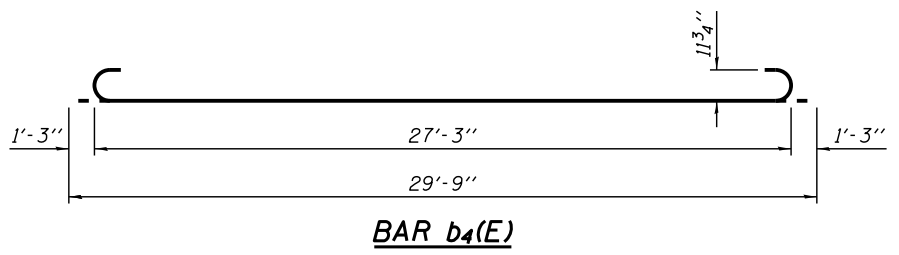
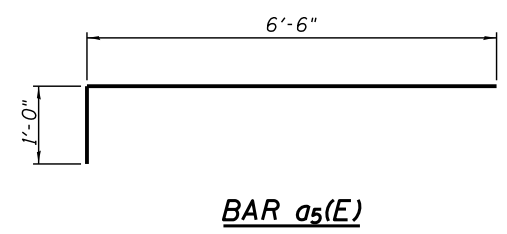
ILLINOIS FED. AID PROJECT



Notes:
 See sheet 10 of 21 for Detail A.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet 9 of 21.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 21.



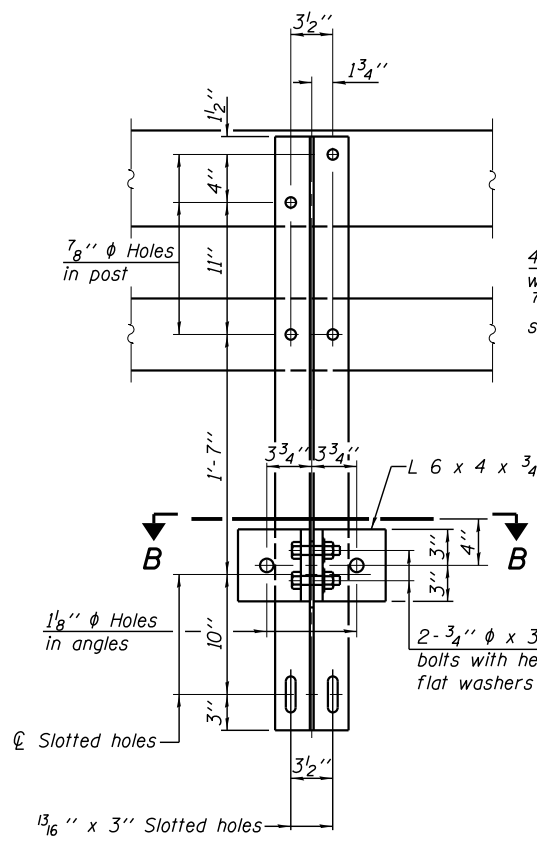
* Tilt #9 b4(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.



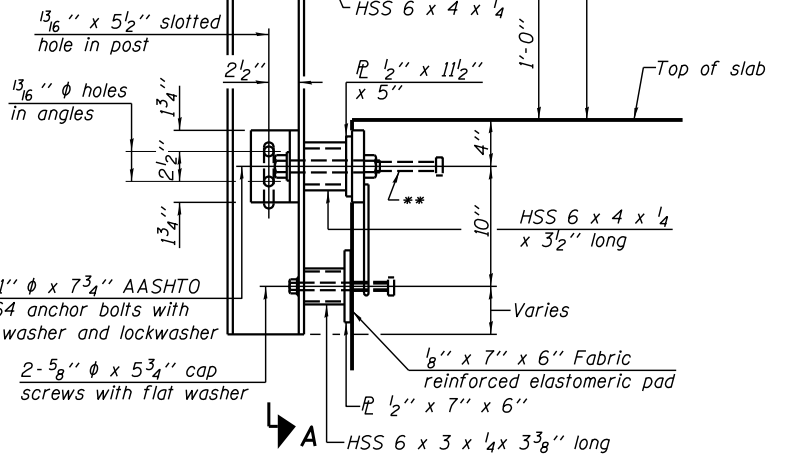
**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a3(E)	92	#5	29'-8"	—	
a4(E)	120	#8	29'-8"	—	
a5(E)	84	#6	7'-6"	┌	
b3(E)	90	#5	29'-8"	—	
b4(E)	142	#9	29'-9"	┌	
b5(E)	12	#5	14'-8"	—	
t(E)	120	#4	9'-8"	—	
w(E)	80	#5	29'-8"	—	
Concrete Superstructure (Approach Slab)				Cu. Yd.	86.7
Concrete Structures				Cu. Yd.	18.5
Reinforcement Bars, Epoxy Coated				Pound	33,880

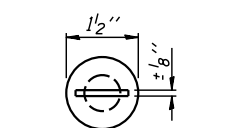
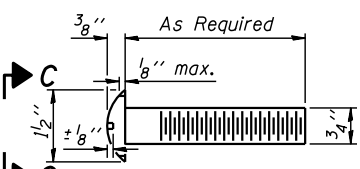
(Sheet 2 of 2)



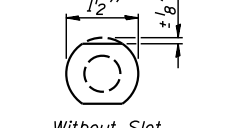
4-3/4" φ x 6" Round Head Bolts with locknut & flat washer.
7/8" φ holes in hollow structural section may be drilled in the field.



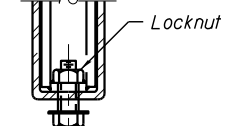
DETAIL OF 3/4" φ ROUND HEAD BOLT



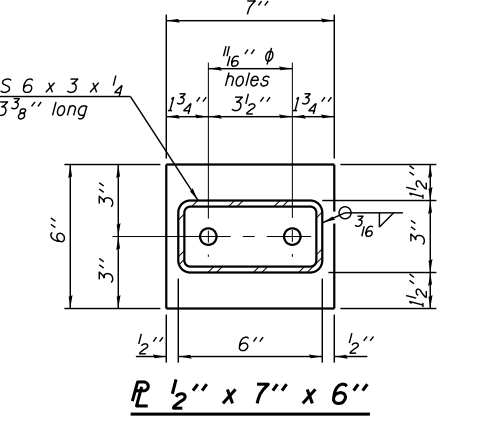
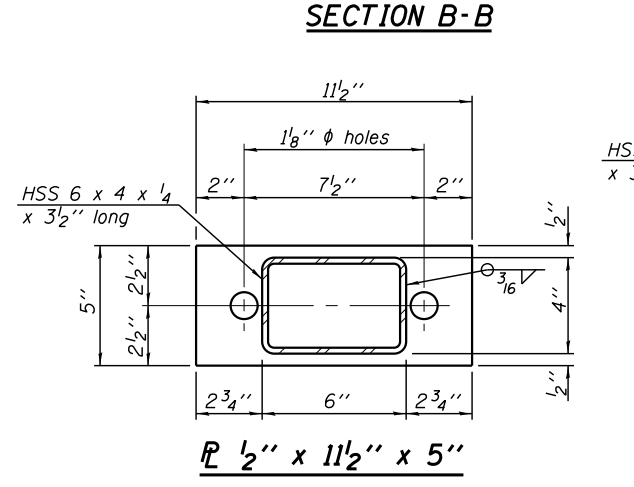
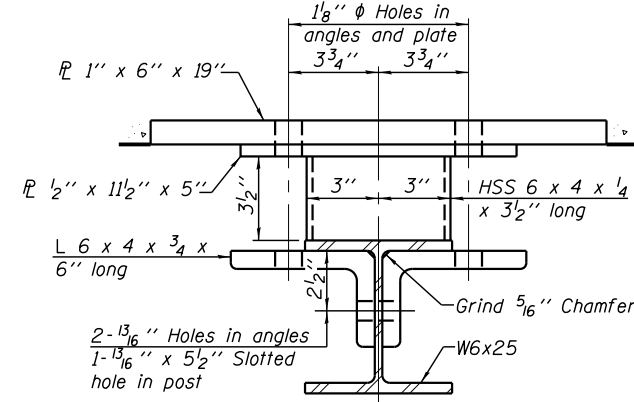
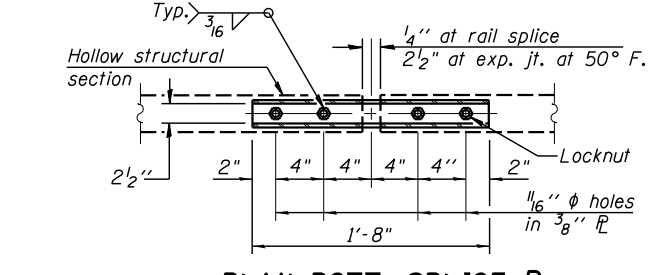
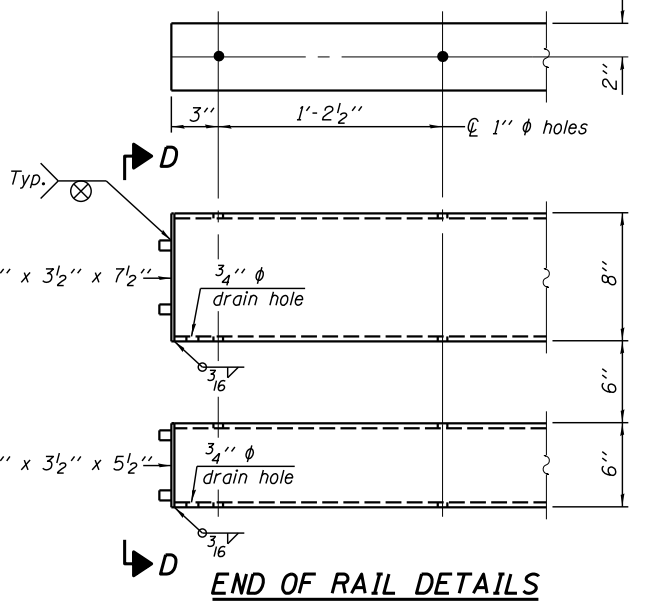
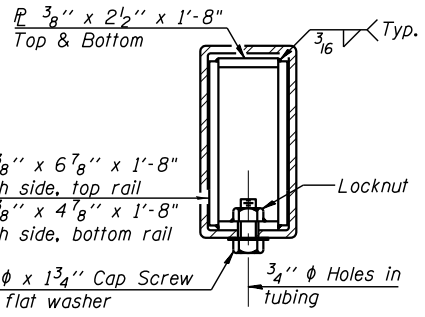
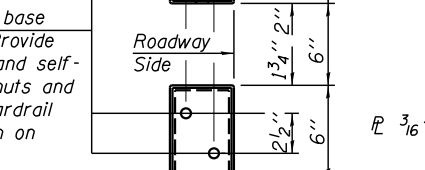
With Slot (shown) or Approved Recess



Without Slot or Recess



1/8" x 2 1/2" Slotted Holes in hollow structural section
5/8" φ x 1 3/4" Cap Screw with flat washer & 3/4" φ XS pipe spacer, 1/2" long.



*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

(6'-3" Maximum Post Spacing)

Notes:
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.
** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.
See Sheet 13 of 21 for Rail Post spacing.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	425



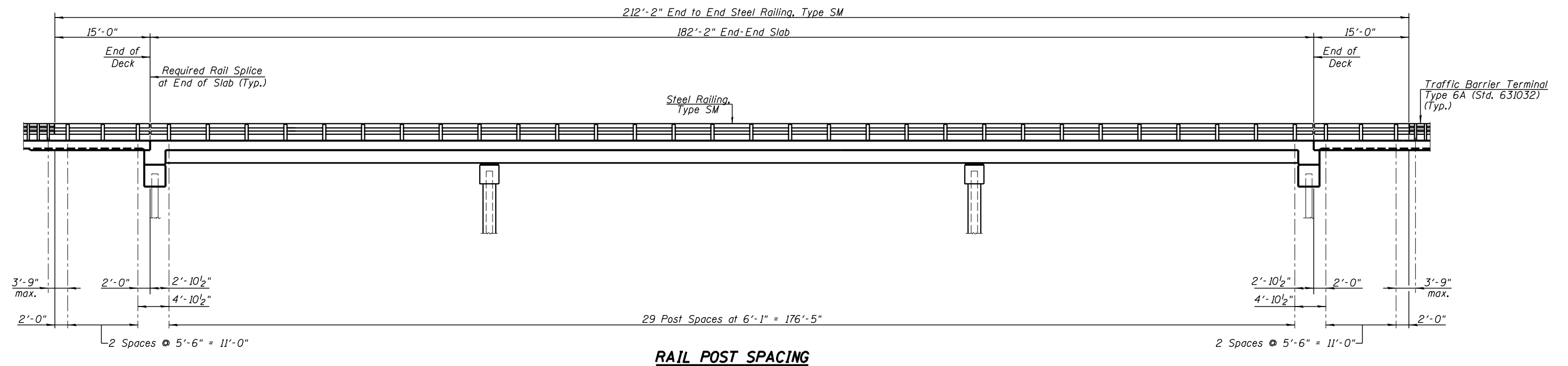
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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM
STRUCTURE NO. 054-3064

SHEET NO. 12 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	33
				CONTRACT NO. 93721
ILLINOIS FED. AID PROJECT				



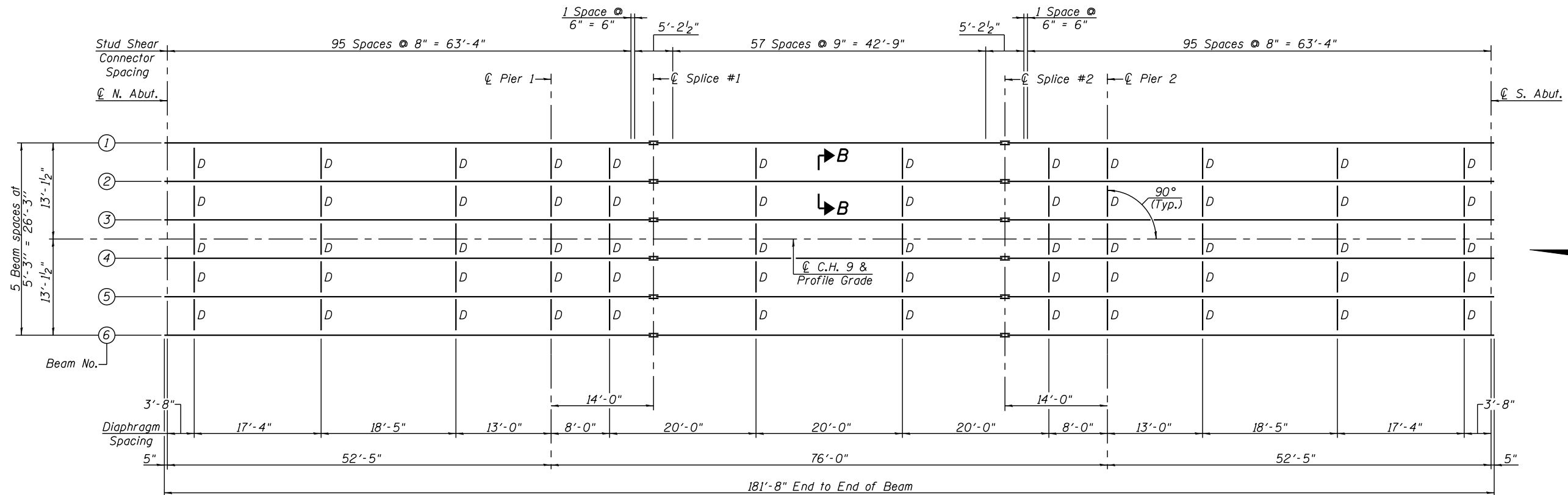
USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STEEL RAILING, TYPE SM
STRUCTURE NO. 054-3064**

SHEET NO. 13 OF 21 SHEETS

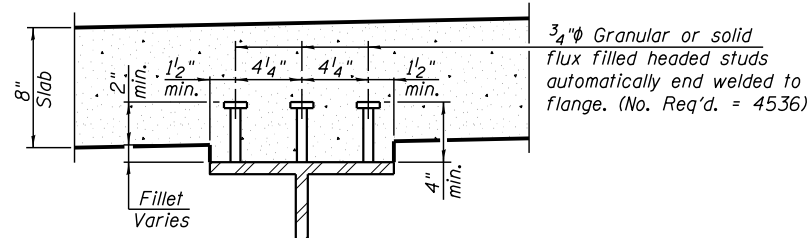
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	34
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				



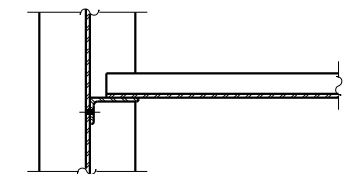
FRAMING PLAN

All beams are W33x118, AASHTO M 270, Grade 50, NTR.

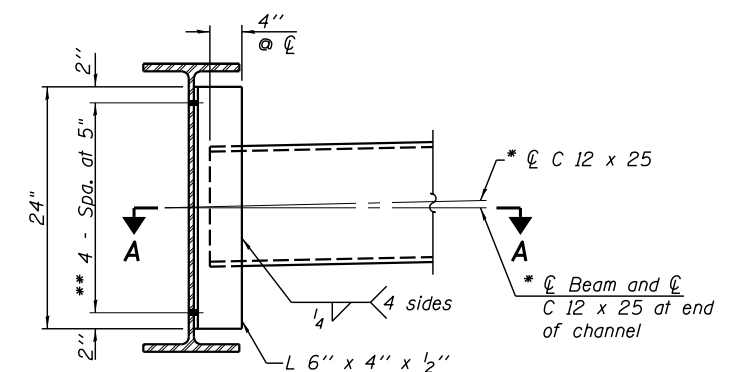
Note: Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.



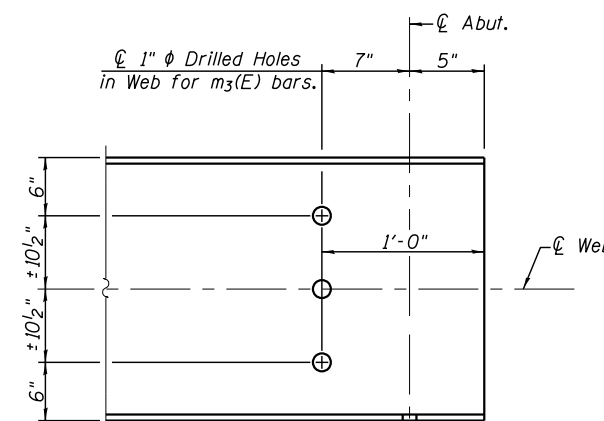
SECTION B-B



SECTION A-A



Note:
 All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
 Two hardened washers required for each set of oversized holes.
 *Alternate channels C 12 x 30 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.
 The alternate, if utilized, shall be provided at no additional cost to the Department.
 **3/4" φ HS bolts, 1 5/16" φ holes



TYP. END OF BEAM ELEVATION

***** TOP OF BEAM ELEVATIONS**

	℄ N Abut.	℄ Pier 1	℄ Splice 1	℄ Splice 2	℄ Pier 2	℄ S Abut.
Beam 1	565.58	565.52	565.51	565.51	565.52	565.58
Beam 2	565.66	565.61	565.59	565.59	565.61	565.66
Beam 3	565.74	565.69	565.67	565.67	565.69	565.74
Beam 4	565.74	565.69	565.67	565.67	565.69	565.74
Beam 5	565.66	565.61	565.59	565.59	565.61	565.66
Beam 6	565.58	565.52	565.51	565.51	565.52	565.58

*** For Fabrication Only



USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL
 STRUCTURE NO. 054-3064

SHEET NO. 14 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	35
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

BEAM MOMENT TABLE						
	0.4 Span 1 or 0.6 Span 3		Pier 1 or 2		0.5 Span 2	
	Interior	Exterior	Interior	Exterior	Interior	Exterior
I_s	(in ⁴)	5900	5900	5900	5900	5900
$I_c(n)$	(in ⁴)	16076	15518	16076	15518	16076
$I_c(3n)$	(in ⁴)	11961	11411	11961	11411	11961
$I_c(cr)$	(in ⁴)	-	-	7842	7617	-
S_s	(in ³)	359	359	359	359	359
$S_c(n)$	(in ³)	532	525	532	525	532
$S_c(3n)$	(in ³)	482	474	482	474	482
$S_c(cr)$	(in ³)	-	-	403	403	-
DC1	(k/')	0.679	0.745	0.679	0.745	0.679
M _{DC1}	(k)	104.9	115.1	-297.2	-326.1	192.8
DC2	(k/')	0.033	0.033	0.033	0.033	0.033
M _{DC2}	(k)	5.1	5.1	-14.5	-14.5	9.4
DW	(k/')	0.25	0.25	0.25	0.25	0.25
M _{DW}	(k)	38.6	38.6	-109.5	-109.5	71.0
LLDF		0.526	0.514	0.508	0.496	0.494
M _{ℓ + IM}	(k)	480.1	469.2	-519.6	-507.3	554.2
M _u (Strength I)	(k)	1036	1029	-1463	-1478	1329
φ _r M _n	(k)	2788	2749	2063	2035	2712
f _s DC1	(ksi)	3.5	3.8	-9.9	-10.9	6.4
f _s DC2	(ksi)	0.1	0.1	-0.4	-0.4	0.2
f _s DW	(ksi)	1.0	1.0	-2.7	-2.8	1.8
f _s (ℓ + IM)	(ksi)	10.8	10.7	-11.7	-11.6	12.5
f _s (Service II)	(ksi)	18.6	18.8	-28.2	-29.2	24.7
0.95R _n F _{yf}	(ksi)	47.5	47.5	47.5	47.5	47.5
f _s (Total)(Strength I)	(ksi)	-	-	-	-	-
φ _r F _n	(ksi)	-	-	-	-	-
V _r	(k)	20.3	20.9	24.0	24.5	24.0

BEAM REACTION TABLE				
	Abutments		Piers	
	Interior	Exterior	Interior	Exterior
LLDF	0.615	0.488	0.615	0.488
OCF	-	-	-	-
R _{DC1}	(k) 12.2	13.3	49.3	54.0
R _{DC2}	(k) 0.6	0.6	2.4	2.4
R _{DW}	(k) 4.5	4.5	18.1	18.1
R _ℓ	(k) 44.4	35.2	72.8	57.8
R _{IM}	(k) 11.5	9.1	14.2	11.2
R _{Total}	(k) 73.2	62.7	156.8	143.5

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in⁴ and in³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in⁴ and in³).

$I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in⁴ and in³).

DC1: Un-factored non-composite dead load (kips/ft.).

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{ℓ + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{ℓ + IM}

φ_rM_n: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).

M_{DC1} / S_{nc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
M_{DC2} / S_{c(3n)} or M_{DC2} / S_{c(cr)} as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
M_{DW} / S_{c(3n)} or M_{DW} / S_{c(cr)} as applicable.

f_s (ℓ + IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
M_{ℓ + IM} / S_{c(n)} or M_{DW} / S_{c(cr)} as applicable.

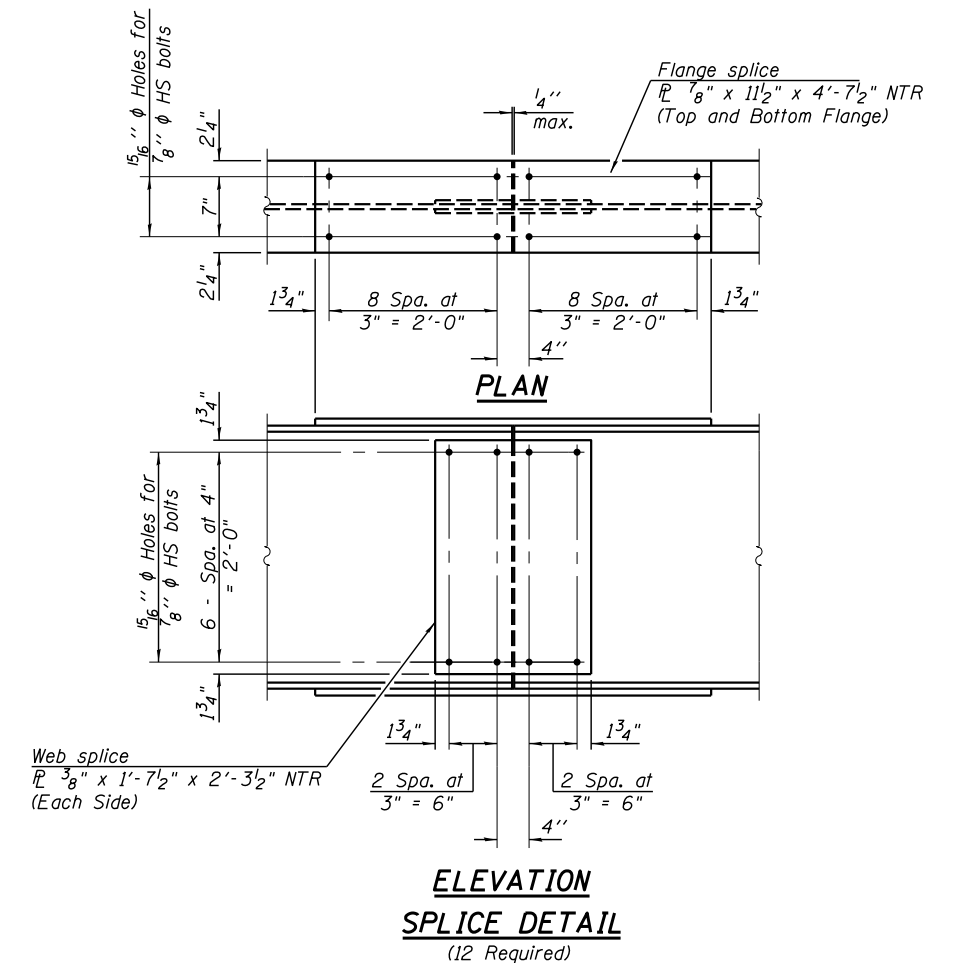
f_s (Service II): Sum of stresses as computed below (ksi).
f_sDC1 + f_sDC2 + f_sDW + 1.3 f_s (ℓ + IM)

0.95R_nF_{yf}: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

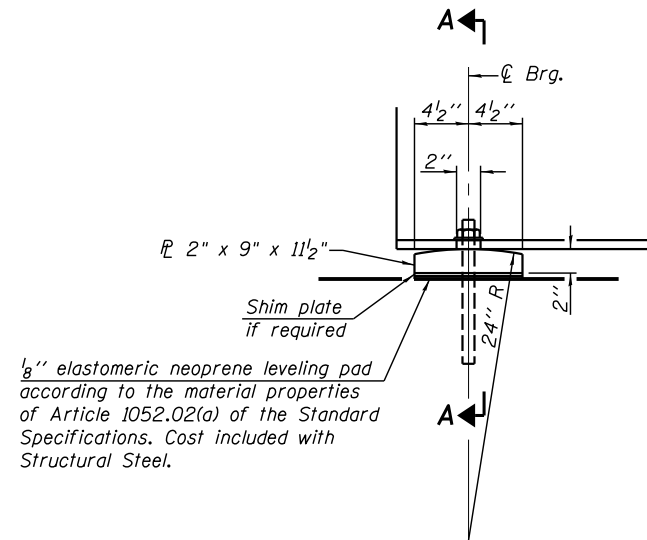
f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
1.25 (f_sDC1 + f_sDC2) + 1.5 f_sDW + 1.75 f_s (ℓ + IM)

φ_rF_n: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

V_r: Maximum factored shear range in span computed according to Article 6.10.10.



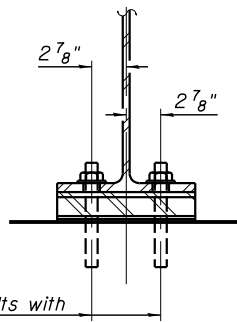
All splice plates shall be AASHTO M 270, Grade 50, NTR.
Note: Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.



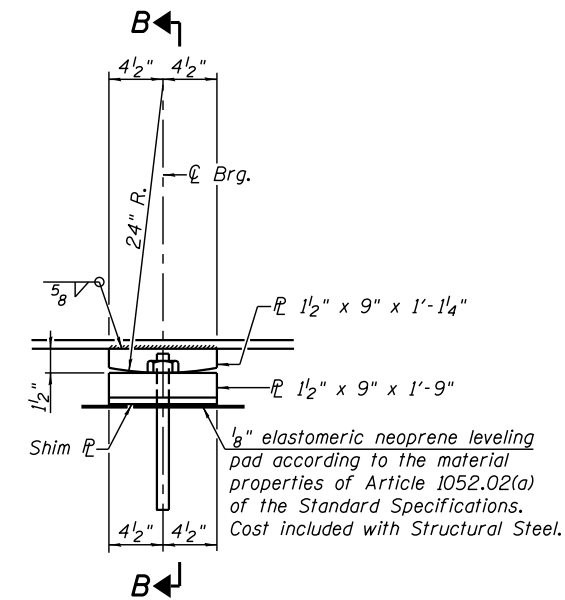
ELEVATION AT ABUTMENT

FIXED BEARING AT ABUTMENTS
(12 Required)

1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.



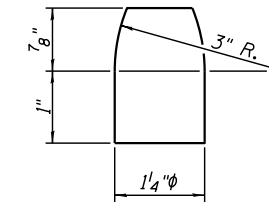
SECTION A-A



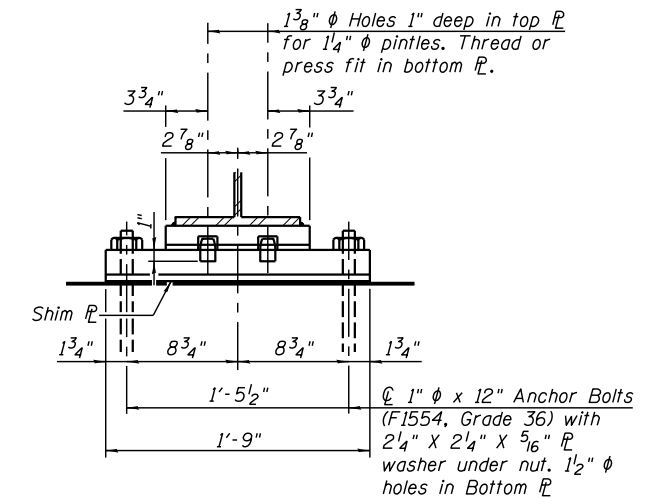
ELEVATION AT PIERS

FIXED BEARING AT PIERS
(12 Required)

1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.



PINTLE



SECTION B-B

1 3/8" ϕ Holes 1" deep in top flange for 1 1/4" ϕ pintles. Thread or press fit in bottom flange.

1" ϕ x 12" Anchor Bolts (F1554, Grade 36) with 2 1/4" x 2 1/4" x 5/16" flange washer under nut. 1 1/2" ϕ holes in Bottom flange.

Notes: Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

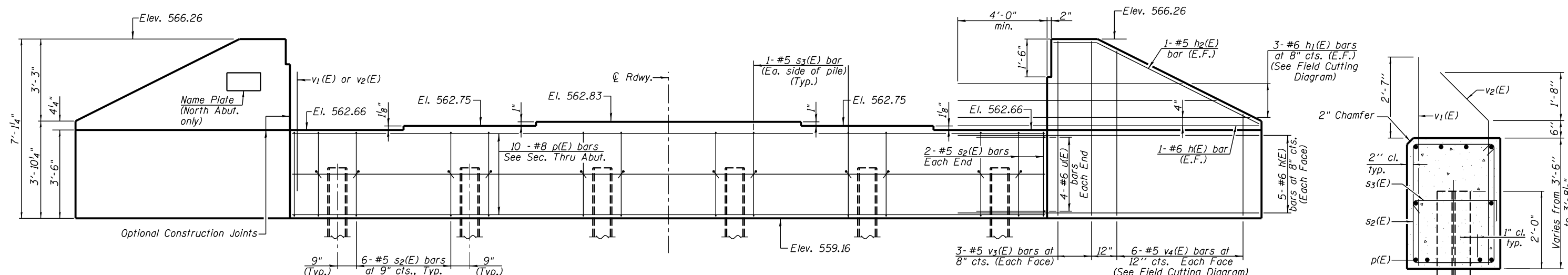
The structural steel plates of the bearings shall conform to the requirements of AASHTO M 270, Grade 50.

Beams shall be braced for stability during erection and remain braced until the deck is poured and cured.

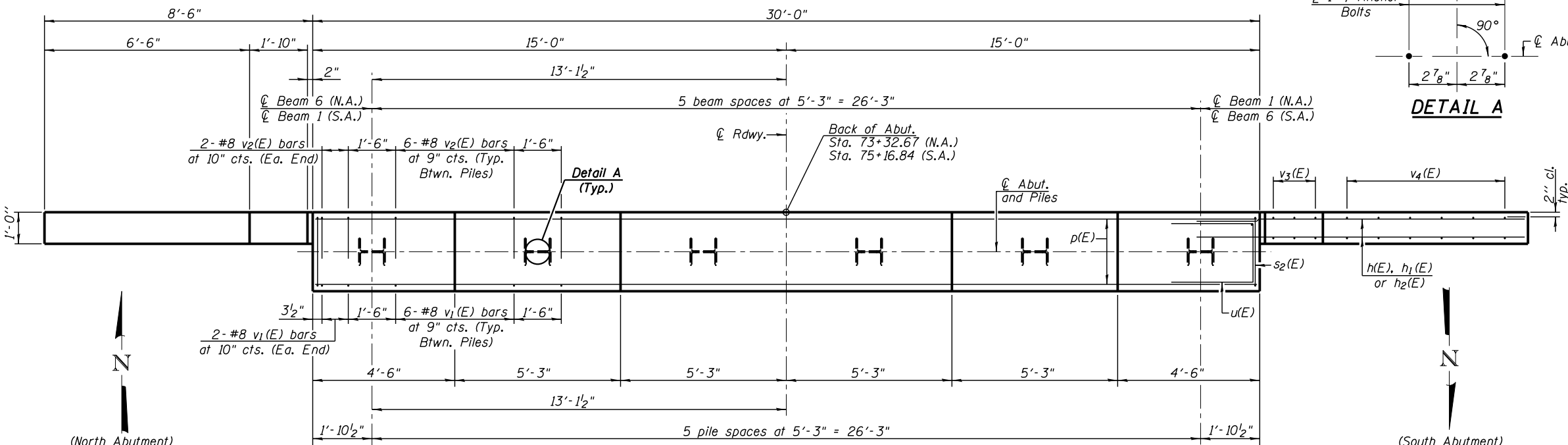
BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	48

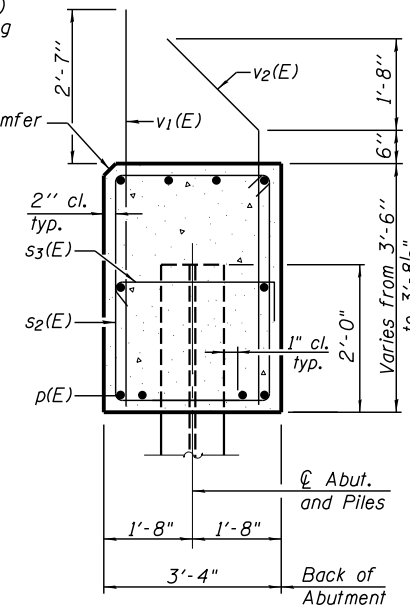
Notes:
 Pour steps monolithically with cap.
 Space reinforcement in caps to miss anchor bolts.



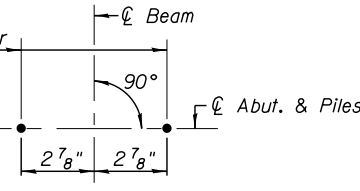
ELEVATION
 (Looking North - North Abutment)
 (Looking South - South Abutment)



PLAN



SEC. THRU ABUT.



DETAIL A

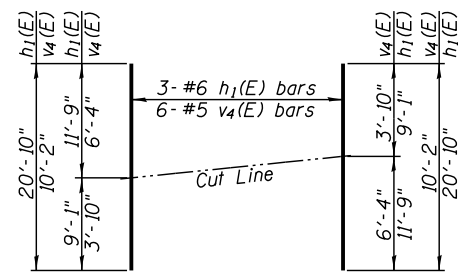
BILL OF MATERIAL FOR TWO ABUTMENTS

Bar	No.	Size	Length	Shape
h(E)	48	#6	12'-4"	—
h ₁ (E)	12	#6	20'-10"	—
h ₂ (E)	8	#5	8'-9"	—
p(E)	20	#8	29'-8"	—
s ₂ (E)	68	#5	13'-3"	□
s ₃ (E)	24	#5	4'-0"	—
u(E)	16	#6	10'-6"	—
v ₁ (E)	68	#8	5'-11"	—
v ₂ (E)	68	#8	6'-2"	—
v ₃ (E)	24	#5	6'-9"	—
v ₄ (E)	24	#5	10'-2"	—
Structure Excavation		Cu. Yd.	89	
Concrete Structures		Cu. Yd.	34.0	
Reinforcement Bars, Epoxy Coated		Pound	6840	
Furnishing Steel Piles		Foot	665	
HP 12x63		Foot	665	
Driving Piles		Foot	665	
Test Pile, Steel		Each	2	
HP 12x63		Each	2	
Pile Shoes		Each	12	

For details of piles see sheet 19 of 21.

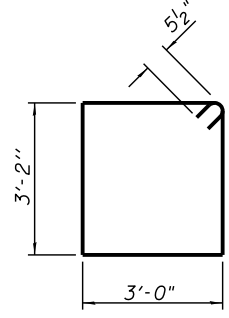
PILE DATA

Type: HP 12 x 63 w/ Pile Shoes
 Nominal Required Bearing: 497 k
 Factored Resistance Available: 273 k
 Est. Length: 75 ft. (N.A.) 58 ft. (S.A.)
 No. Production Piles: 10 (5 Ea. Abut.)
 No. Test Piles: 2 (1 Ea. Abut.)

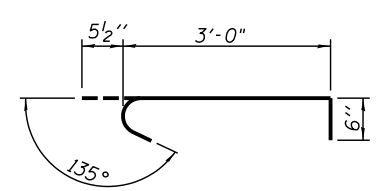


FIELD CUTTING DIAGRAM

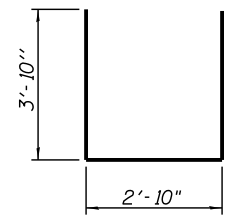
Order h₁(E) and v₄(E) full length. Cut as shown and use remainder of bars in opposite face.



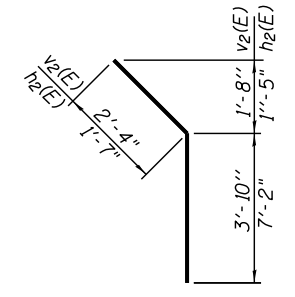
BAR s₂(E)



BAR s₃(E)



BAR u(E)



BAR v₂(E) & h₂(E)

AI-2440-0

8-31-12



DESIGNED -	CHECKED -	REVISIONS -
PLOT SCALE -	DRAWN -	REVISIONS -
PLOT DATE -	CHECKED -	REVISIONS -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

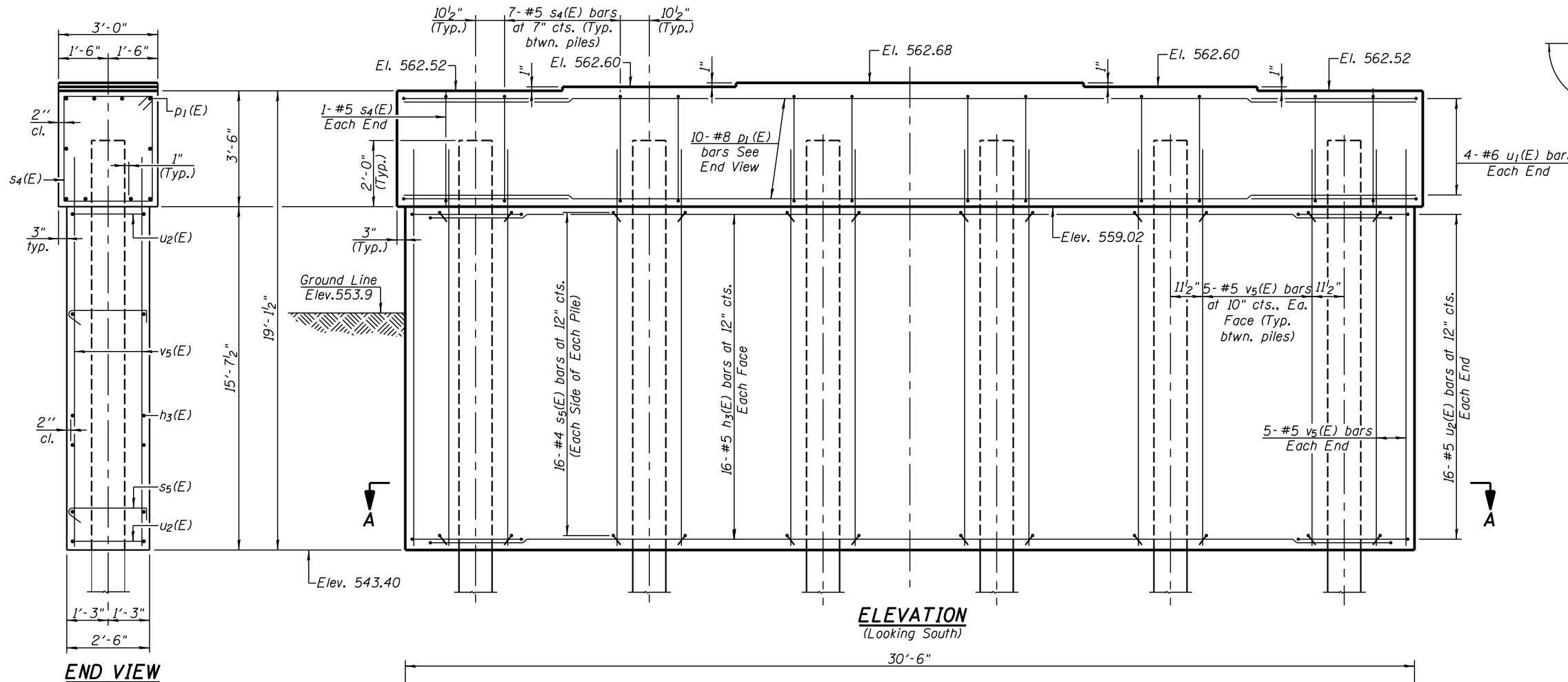
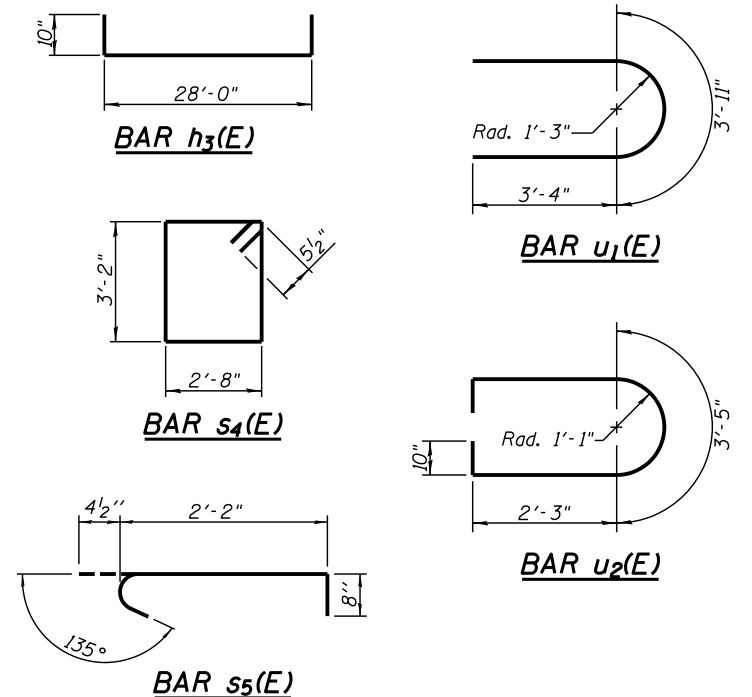
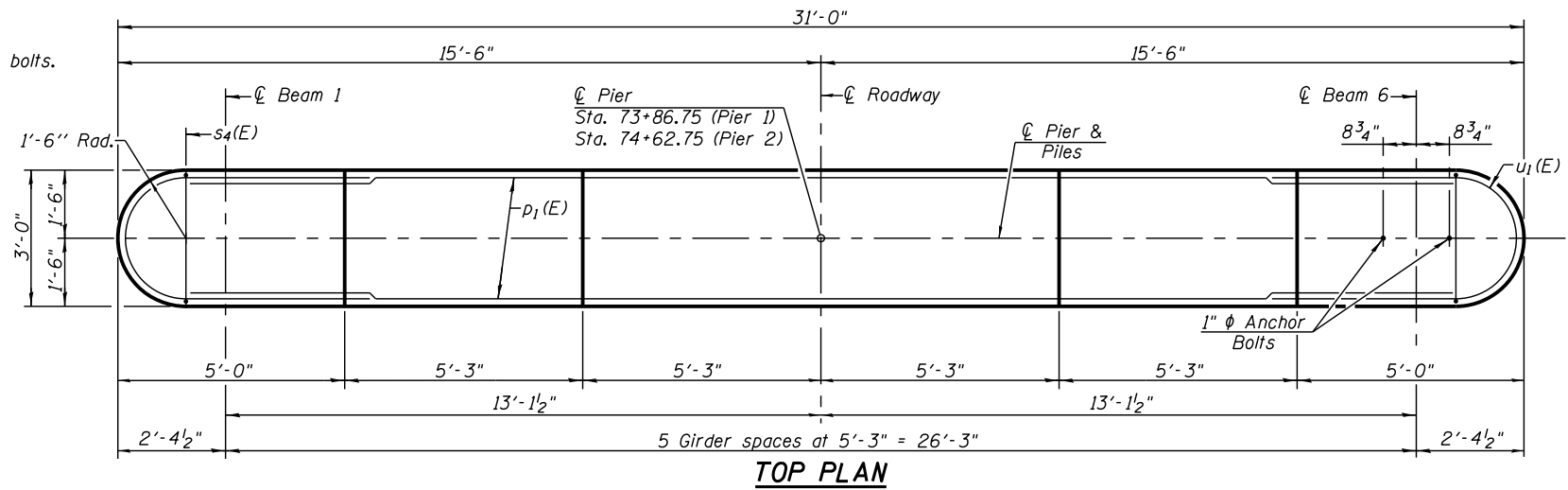
ABUTMENTS
 STRUCTURE NO. 054-3064

SHEET NO. 17 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	38
CONTRACT NO. 93721				

ILLINOIS FED. AID PROJECT

Notes:
Space reinforcement in cap to miss anchor bolts.
Four steps monolithically with cap.



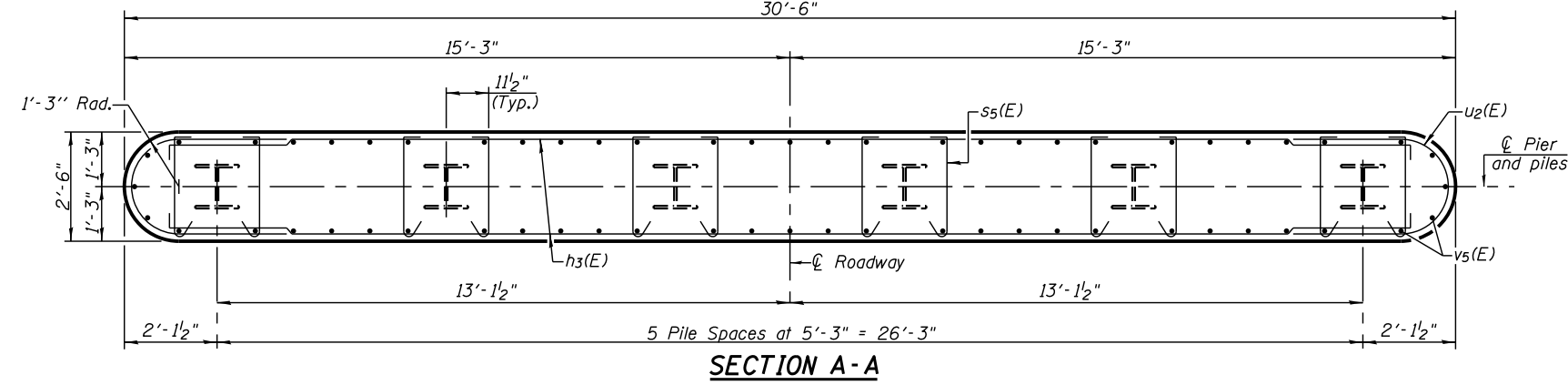
BILL OF MATERIAL FOR TWO PIERS

Bar	No.	Size	Length	Shape
h ₃ (E)	64	#5	29'-8"	┌
p ₁ (E)	20	#8	28'-0"	—
s ₄ (E)	74	#5	12'-7"	□
s ₅ (E)	384	#4	3'-3"	└
u ₁ (E)	16	#6	10'-7"	┌
u ₂ (E)	64	#5	9'-7"	└
v ₅ (E)	120	#5	18'-2"	—
Concrete Structures		Cu. Yd.	110.9	
Seal Coat Concrete		Cu. Yd.	89.8	
Reinforcement Bars, Epoxy Coated		Pound	8450	
Furnishing Steel Piles HP 14X89		Foot	684	
Driving Piles		Foot	684	
Pile Shoes		Each	12	
Cofferdam Excavation (Cofferdam (Type 2) (Location - 1))		Each	1	
** (Cofferdam (Type 2) (Location - 2))		Each	1	

For details of piles see sheet 19 of 21.
* Pier 1
** Pier 2

PILE DATA

Type: HP 14 x 89 w/ Pile Shoes
Nominal Required Bearing: 705 k
Factored Resistance Available: 388 k
Est. Length: 57 ft. (Pier 1 & 2)
No. Production Piles: 12 (6 E.a. Pier)
No. Test Piles: 0



PC-1 7-1-10



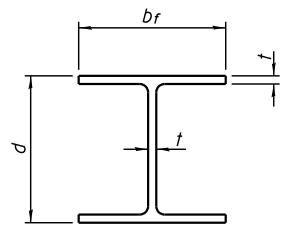
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PLOT SCALE =	CHECKED -	REVISD -
PLOT DATE =	DRAWN -	REVISD -
	CHECKED -	REVISD -

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DEPARTMENT OF TRANSPORTATION

PIERS
STRUCTURE NO. 054-3064
SHEET NO. 18 OF 21 SHEETS

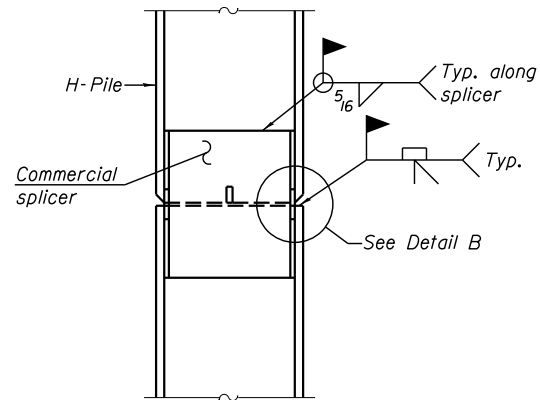
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	39
CONTRACT NO. 93721				

ILLINOIS FED. AID PROJECT

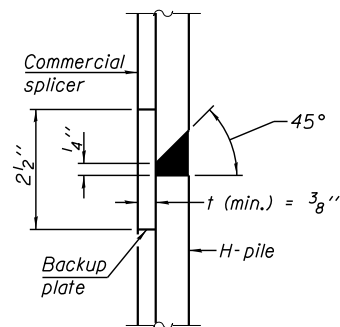


STEEL PILE TABLE

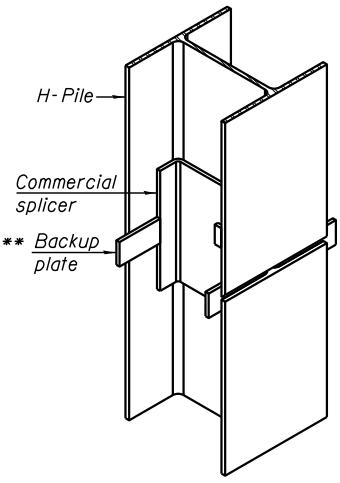
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

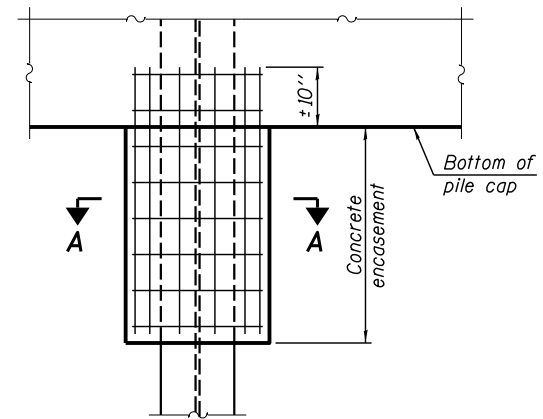


DETAIL "B"



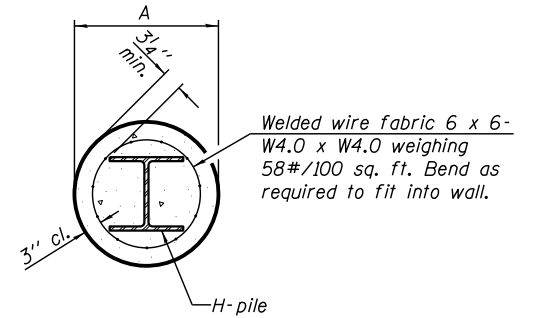
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



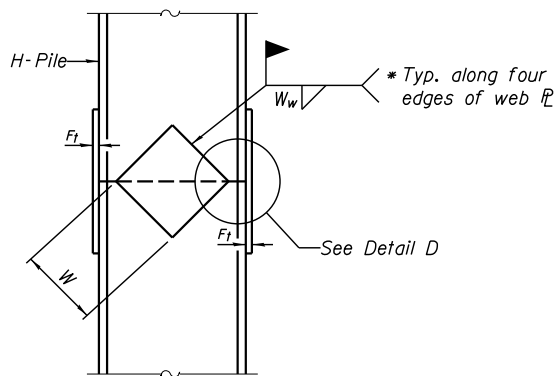
ELEVATION

PILE ENCASEMENT

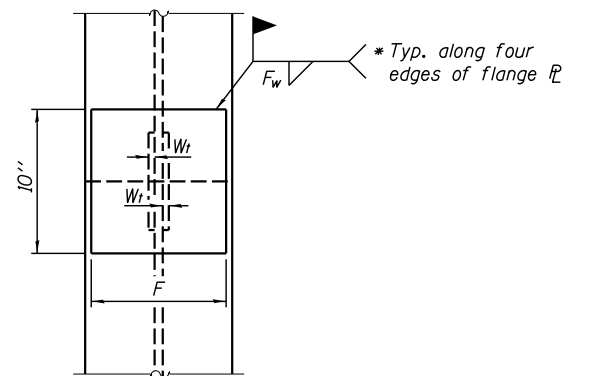


SECTION A-A

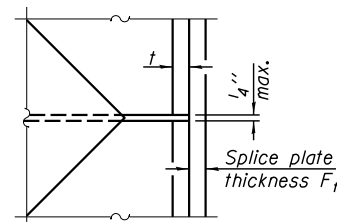
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



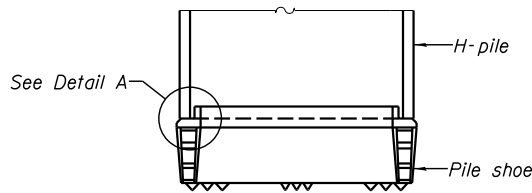
END VIEW



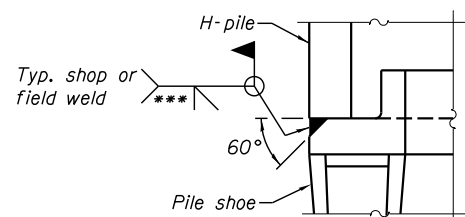
DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

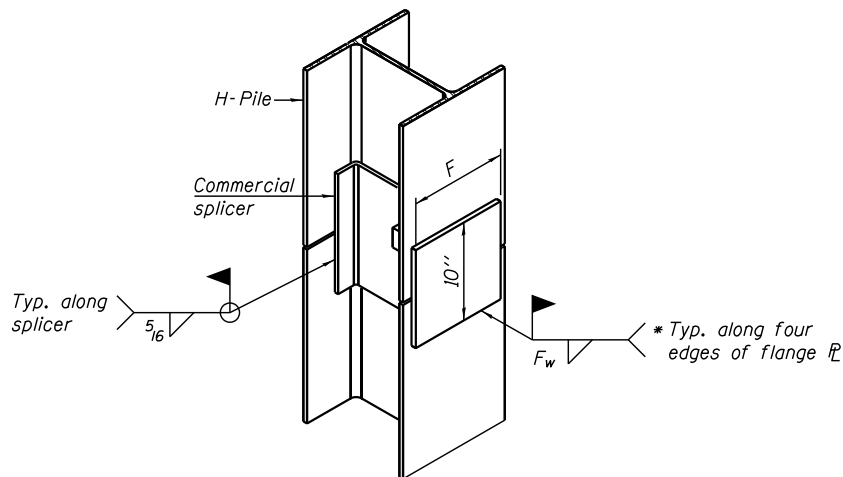


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP 1-27-12



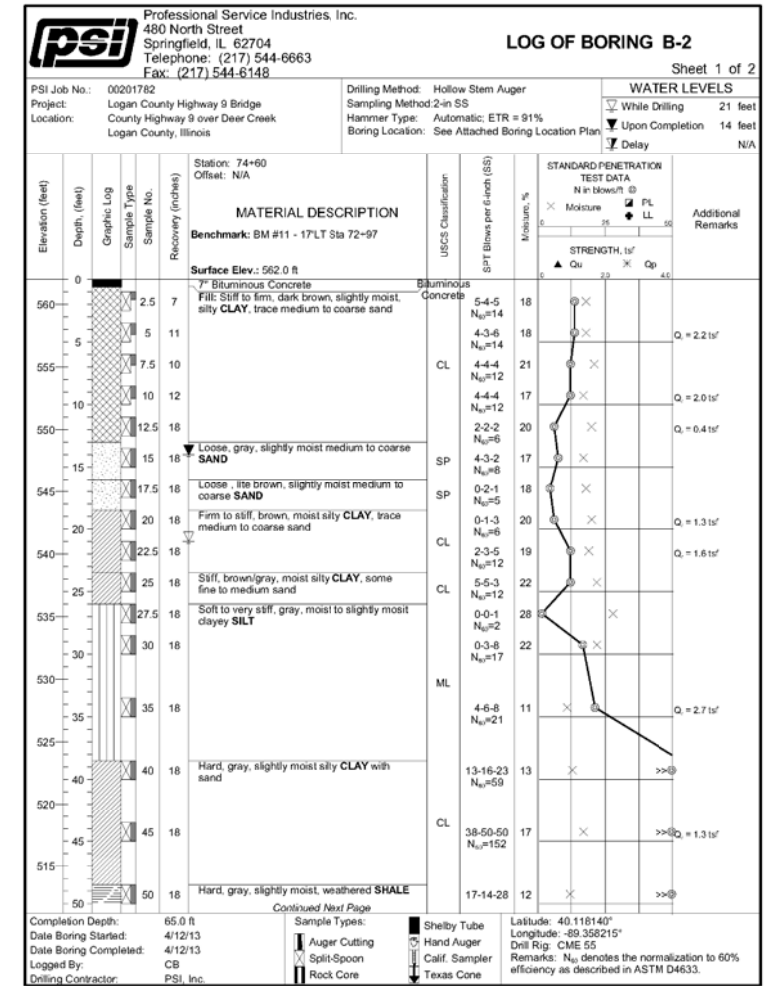
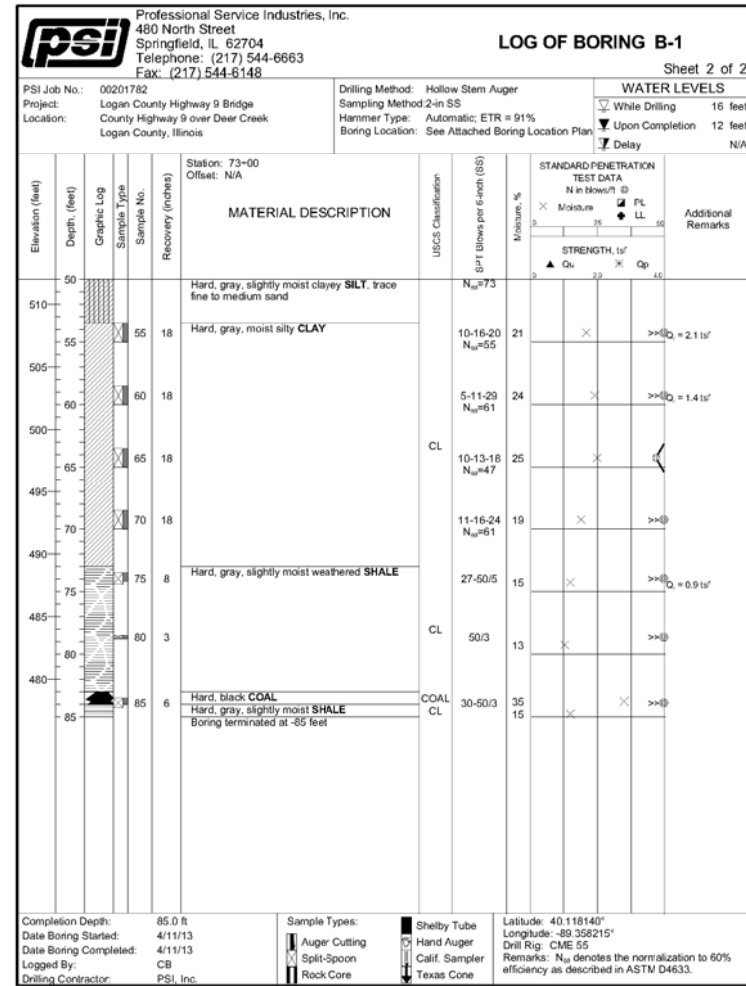
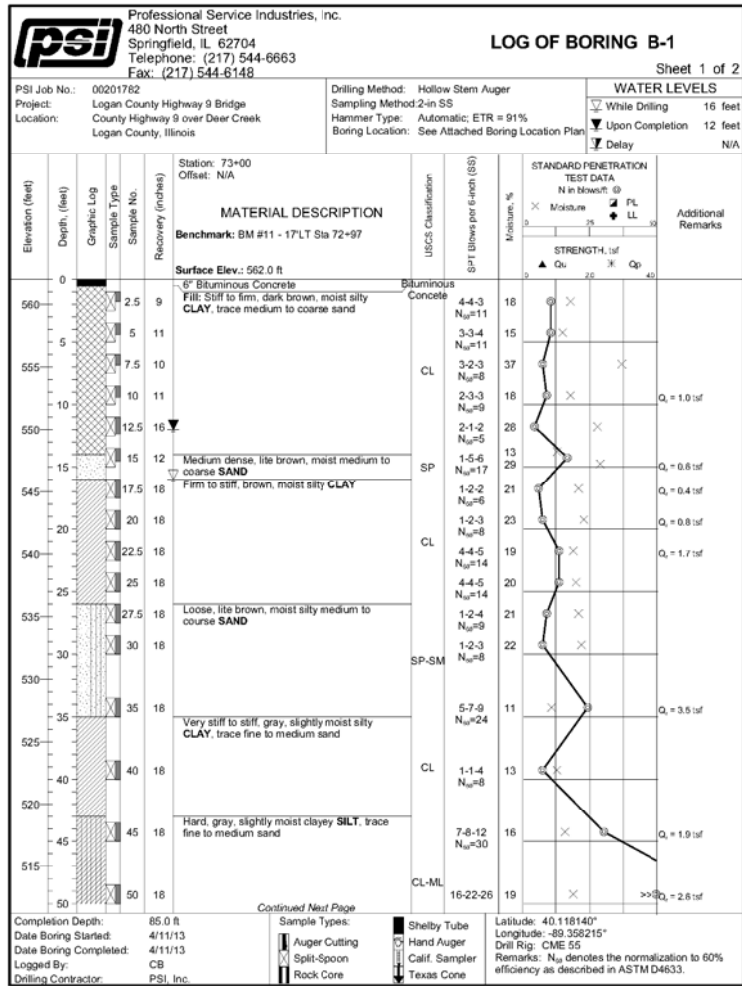
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PLOT DATE =	DRAWN -	REVISIONS -
	CHECKED -	REVISIONS -

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HP PILE DETAILS
STRUCTURE NO. 054-3064

SHEET NO. 19 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	40
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				



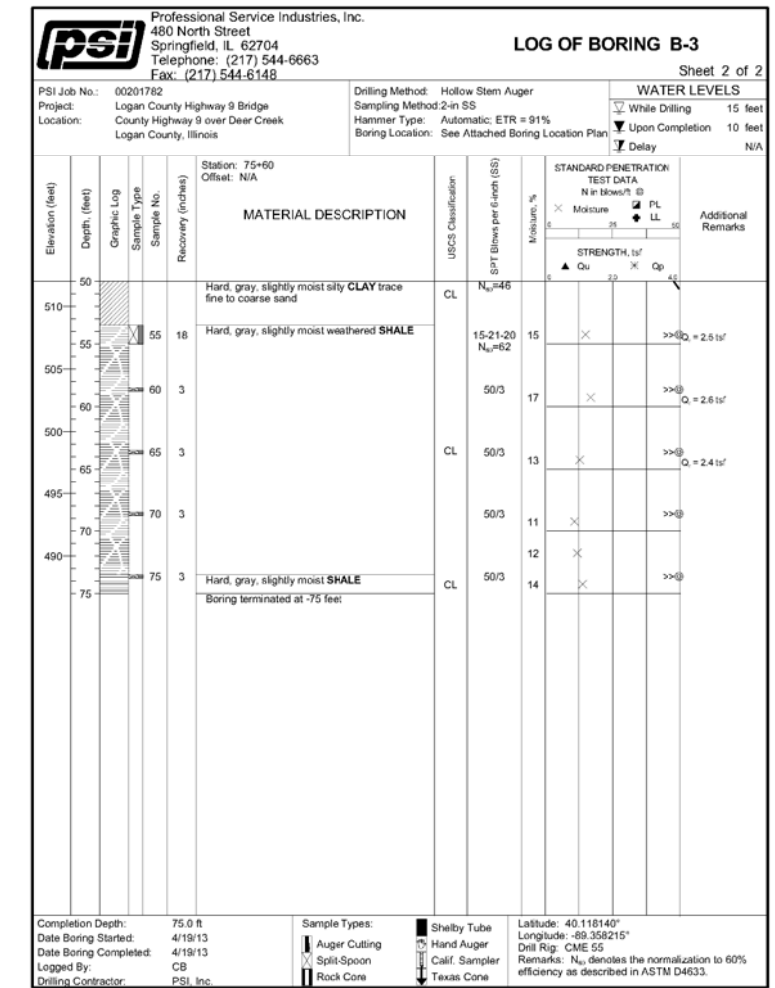
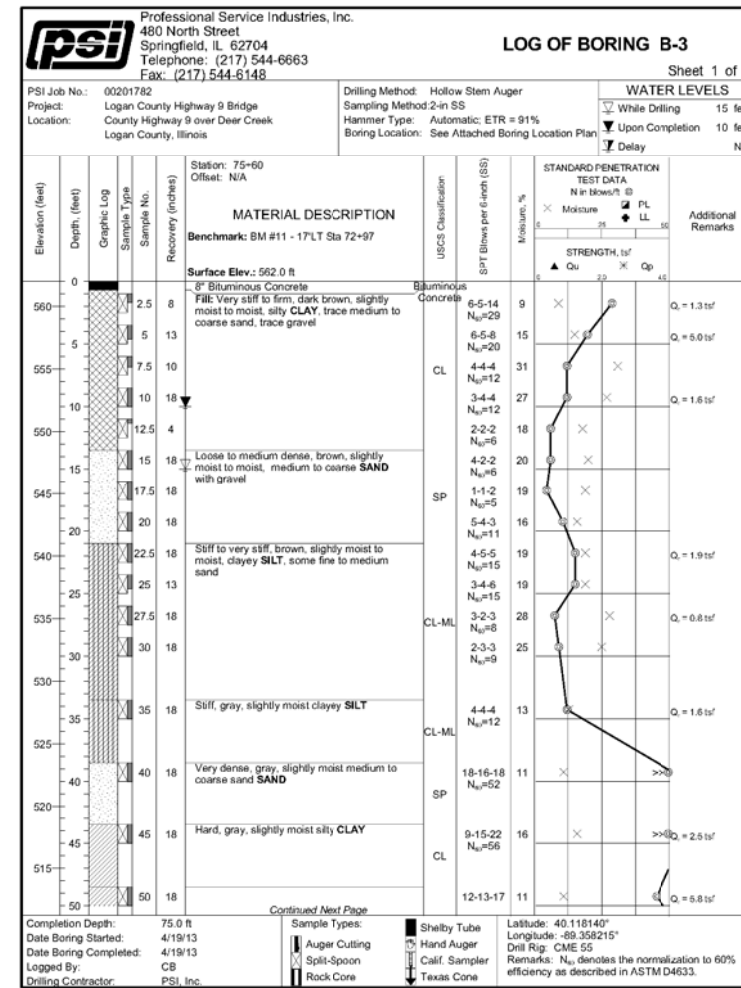
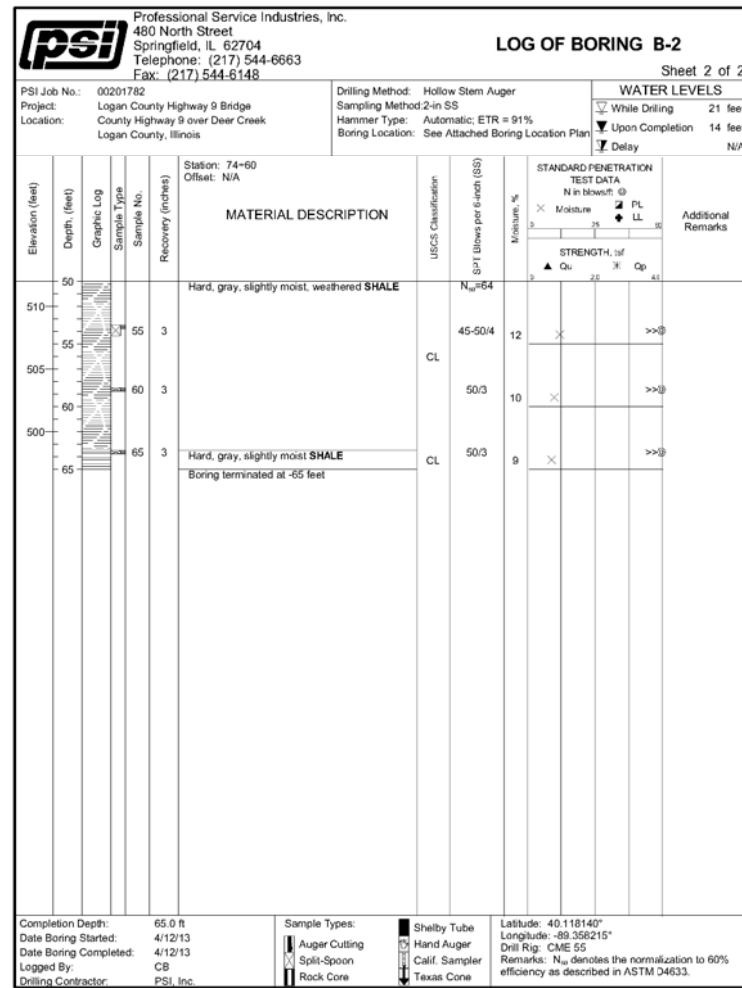
USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS
STRUCTURE NO. 054-3064**

SHEET NO. 20 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	41
CONTRACT NO. 93721			ILLINOIS FED. AID PROJECT	



USER NAME =	DESIGNED -	REVISED -
CHECKED -	REVISED -	
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

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DEPARTMENT OF TRANSPORTATION

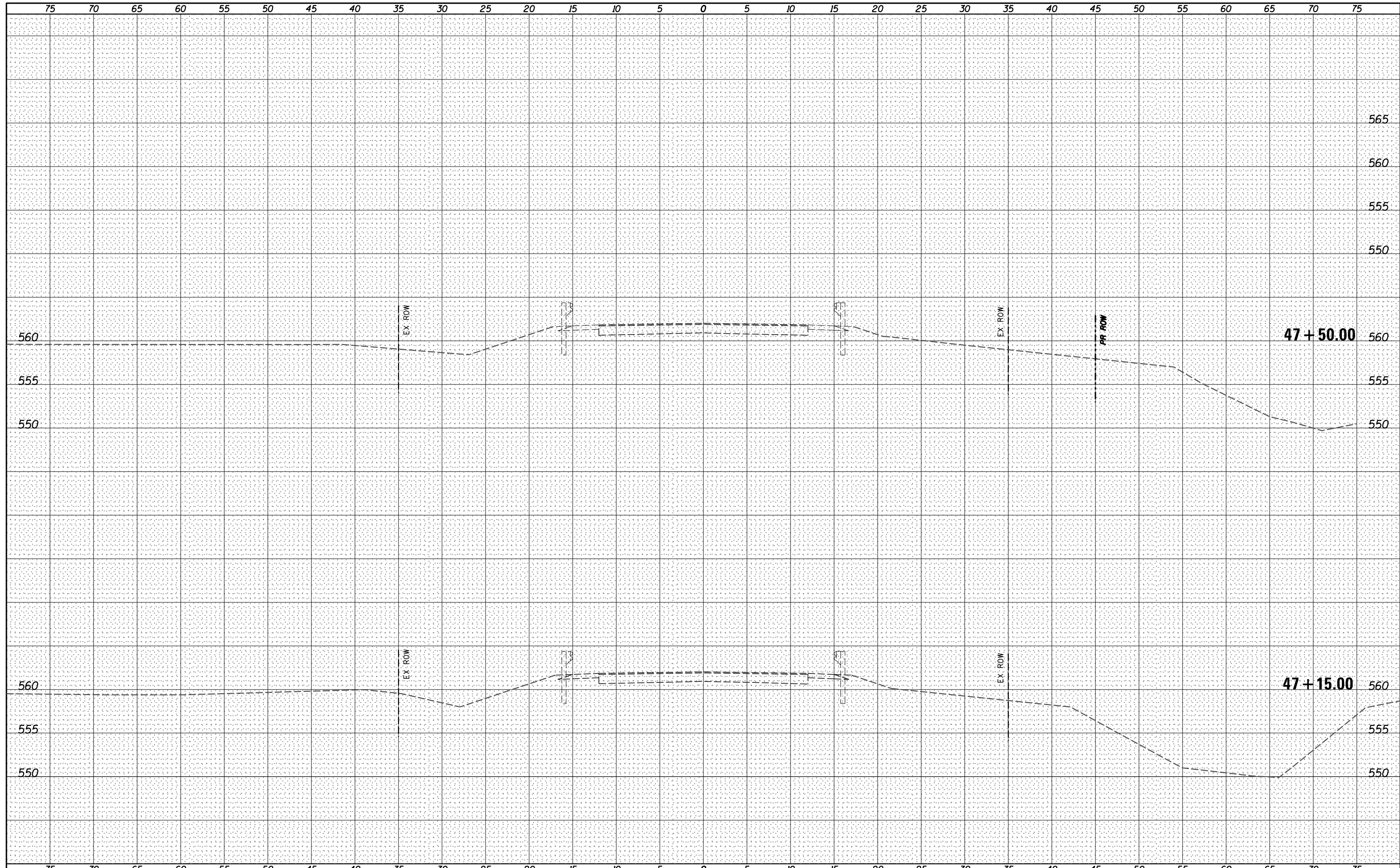
BORING LOGS
STRUCTURE NO. 054-3064

SHEET NO. 21 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	42
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = *USER*	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = *SCALE*	CHECKED - _____	REVISED - _____
PLOT DATE = *DATE*	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

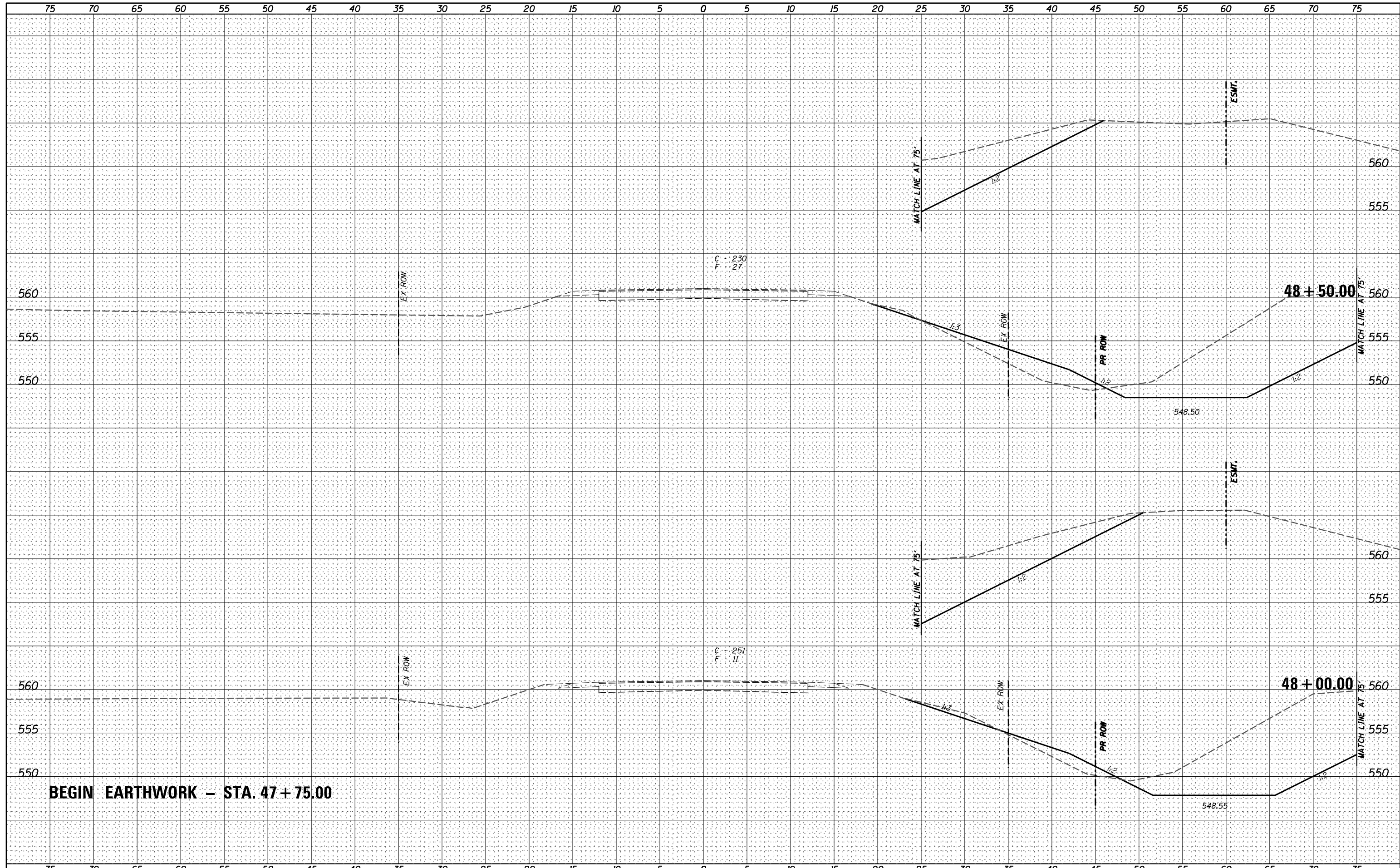
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 1 OF 34 SHEETS STA. 47+15.00 TO STA. 47+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	43
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = *USER*	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = *SCALE*	CHECKED - _____	REVISED - _____
PLOT DATE = *DATE*	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

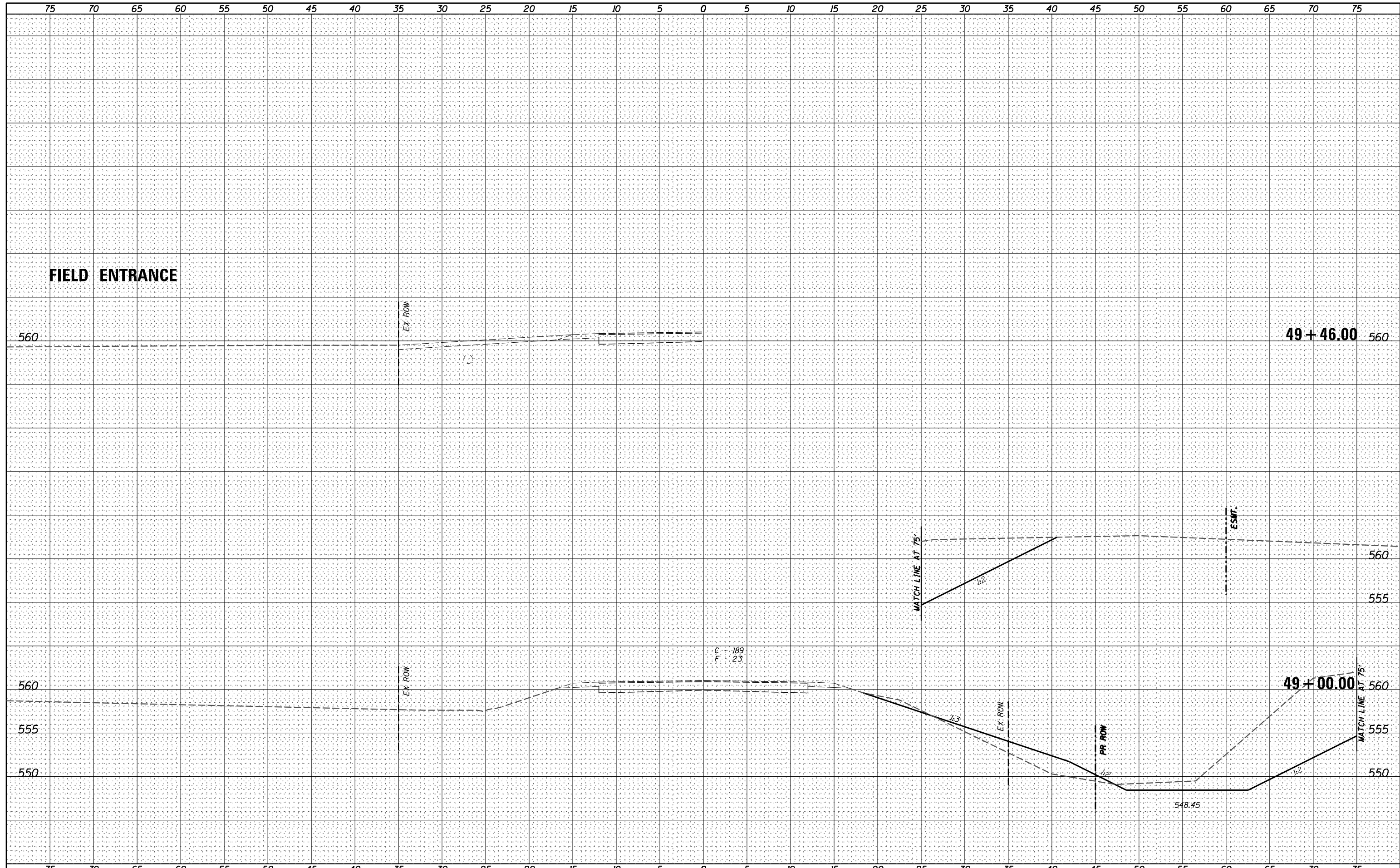
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 2 OF 34 SHEETS STA. 48+00.00 TO STA. 48+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	44
				CONTRACT NO. 93721
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

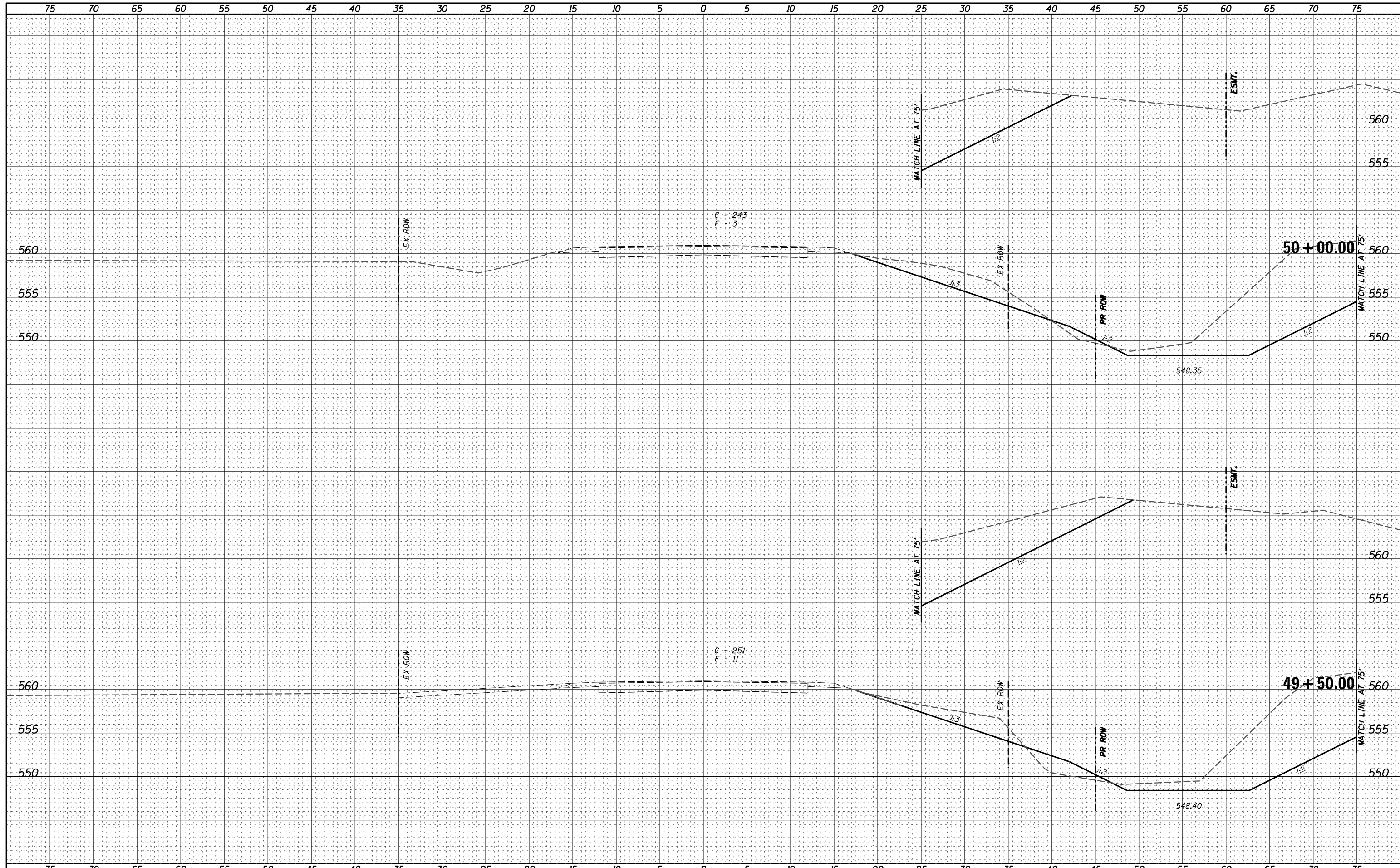
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 3 OF 34 SHEETS
 STA. 49+00.00 TO STA. 49+46.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	45
				CONTRACT NO. 93721
ILLINOIS FED. AID PROJECT				

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

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



C - 243
F - 3

C - 251
F - 11



USER NAME : *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE : *SCALE*	DRAWN - _____	REVISED - _____
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	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

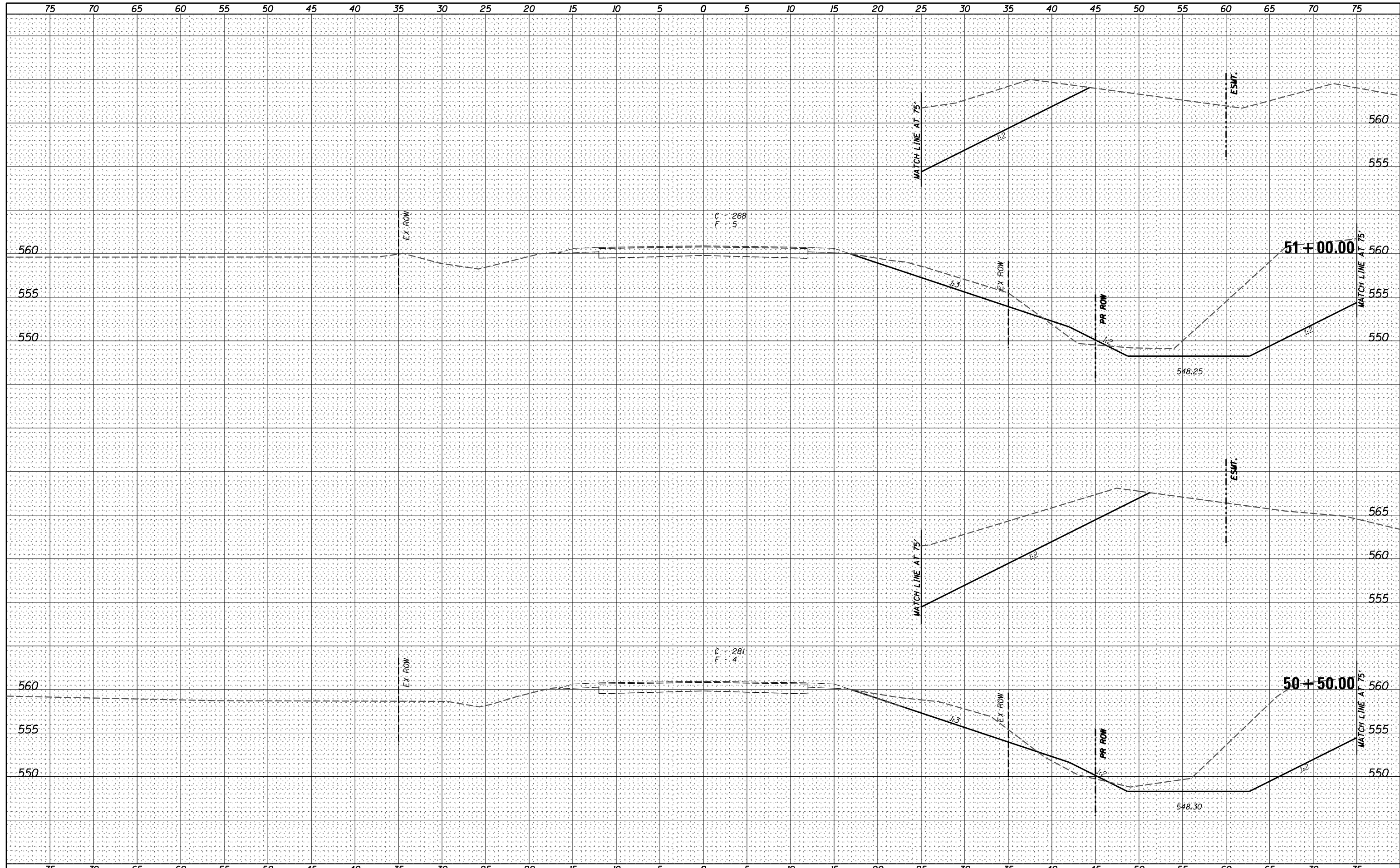
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 4 OF 34 SHEETS STA. 49+50.00 TO STA. 50+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	46
				CONTRACT NO. 93721
ILLINOIS FED. AID PROJECT				

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

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



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PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

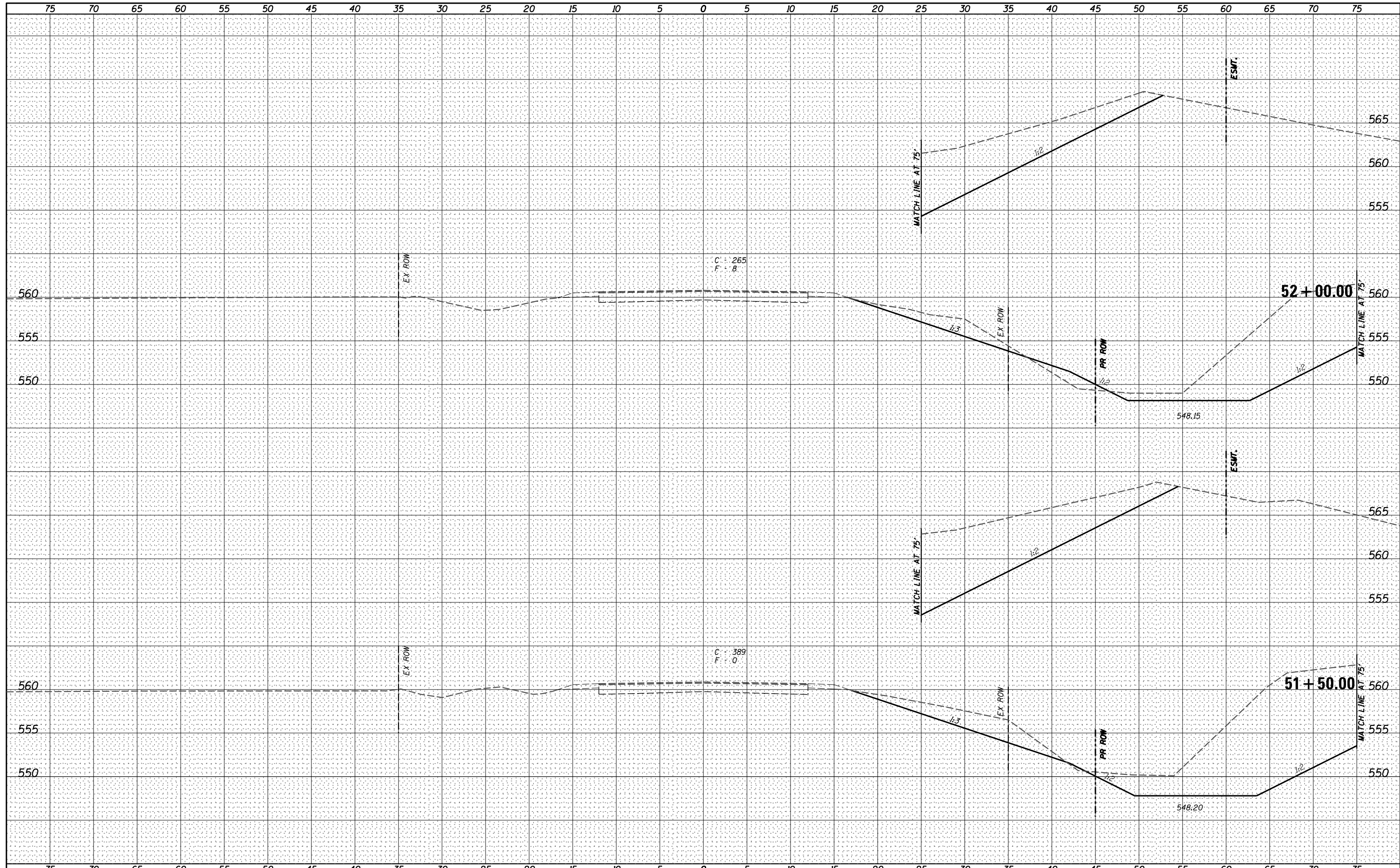
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 5 OF 34 SHEETS STA. 50+50.00 TO STA. 51+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	47
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

DATE _____
 BY _____
 ORIGINAL SURVEY PLOTTED _____
 SURVEY PLOTTED _____
 NOTE BOOK TEMPLATE _____
 AREAS CHECKED _____
 AREAS CHECKED _____

DATE _____
 BY _____
 ORIGINAL SURVEY PLOTTED _____
 SURVEY PLOTTED _____
 NOTE BOOK TEMPLATE _____
 AREAS CHECKED _____
 AREAS CHECKED _____



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USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

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CROSS SECTIONS

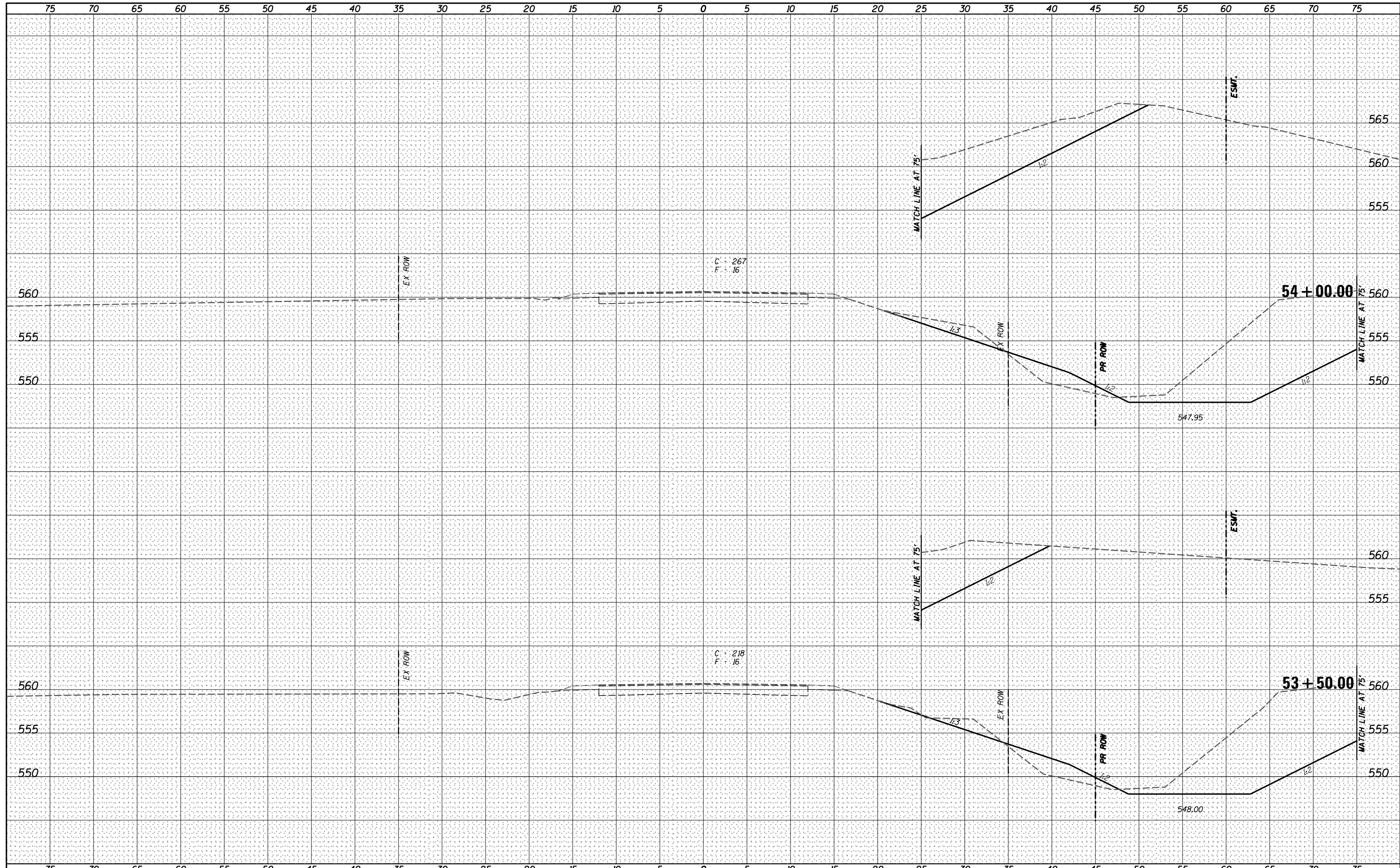
SCALE: 1" = 5' SHEET NO. 6 OF 34 SHEETS STA. 51+50.00 TO STA. 52+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	48
				CONTRACT NO. 93721

ILLINOIS FED. AID PROJECT

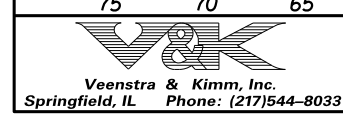
DATE _____
 BY _____
 ORIGINAL SURVEY PLOTTED _____
 SURVEYED PLOTTED _____
 NOTE BOOK TEMPLATE _____
 AREAS CHECKED _____
 AREAS CHECKED _____

DATE _____
 BY _____
 ORIGINAL SURVEY PLOTTED _____
 SURVEYED PLOTTED _____
 NOTE BOOK TEMPLATE _____
 AREAS CHECKED _____
 AREAS CHECKED _____



C = 267
 F = 16

C = 218
 F = 16



USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

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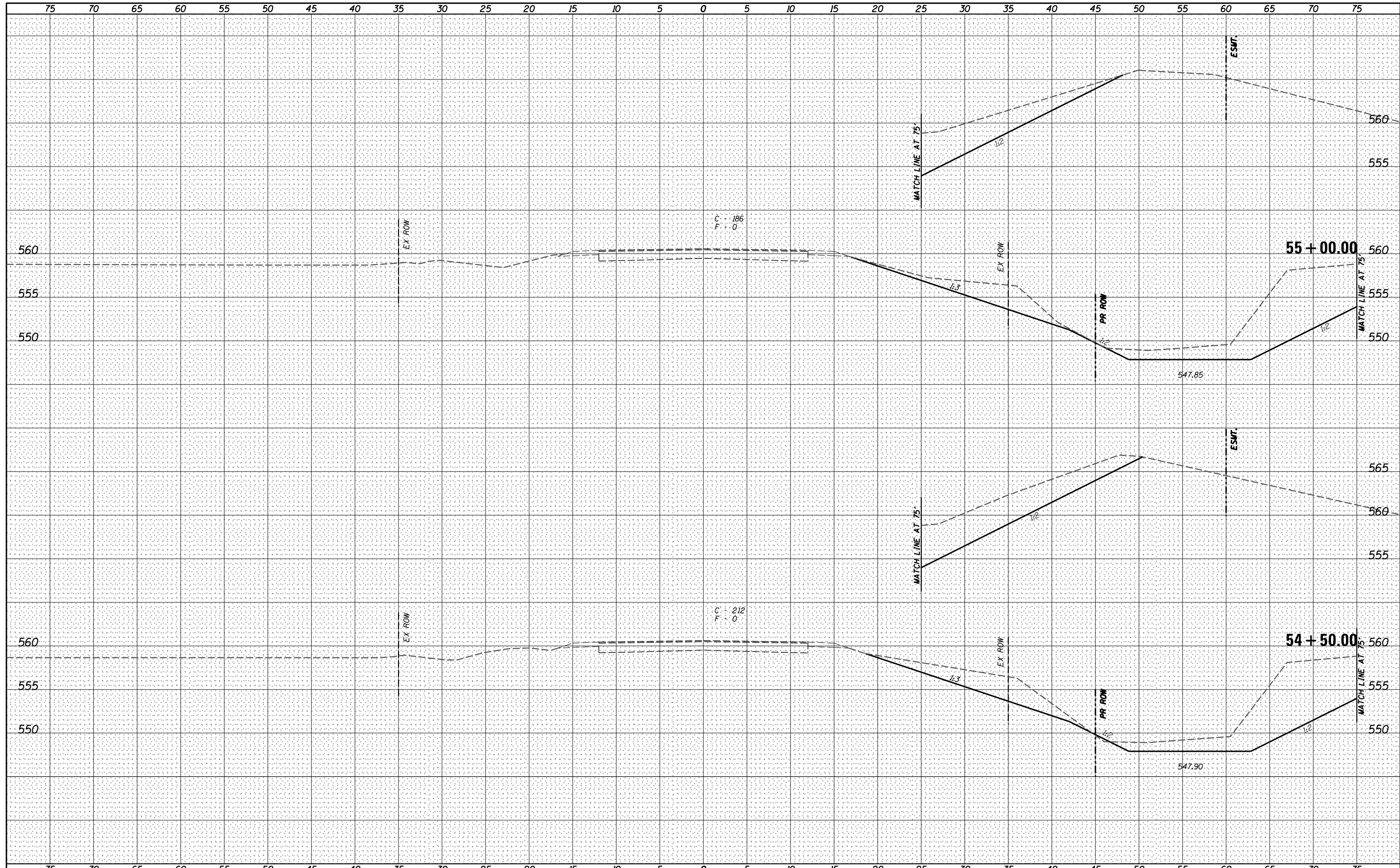
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 8 OF 34 SHEETS STA. 53+50.00 TO STA. 54+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	50
				CONTRACT NO. 93721
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

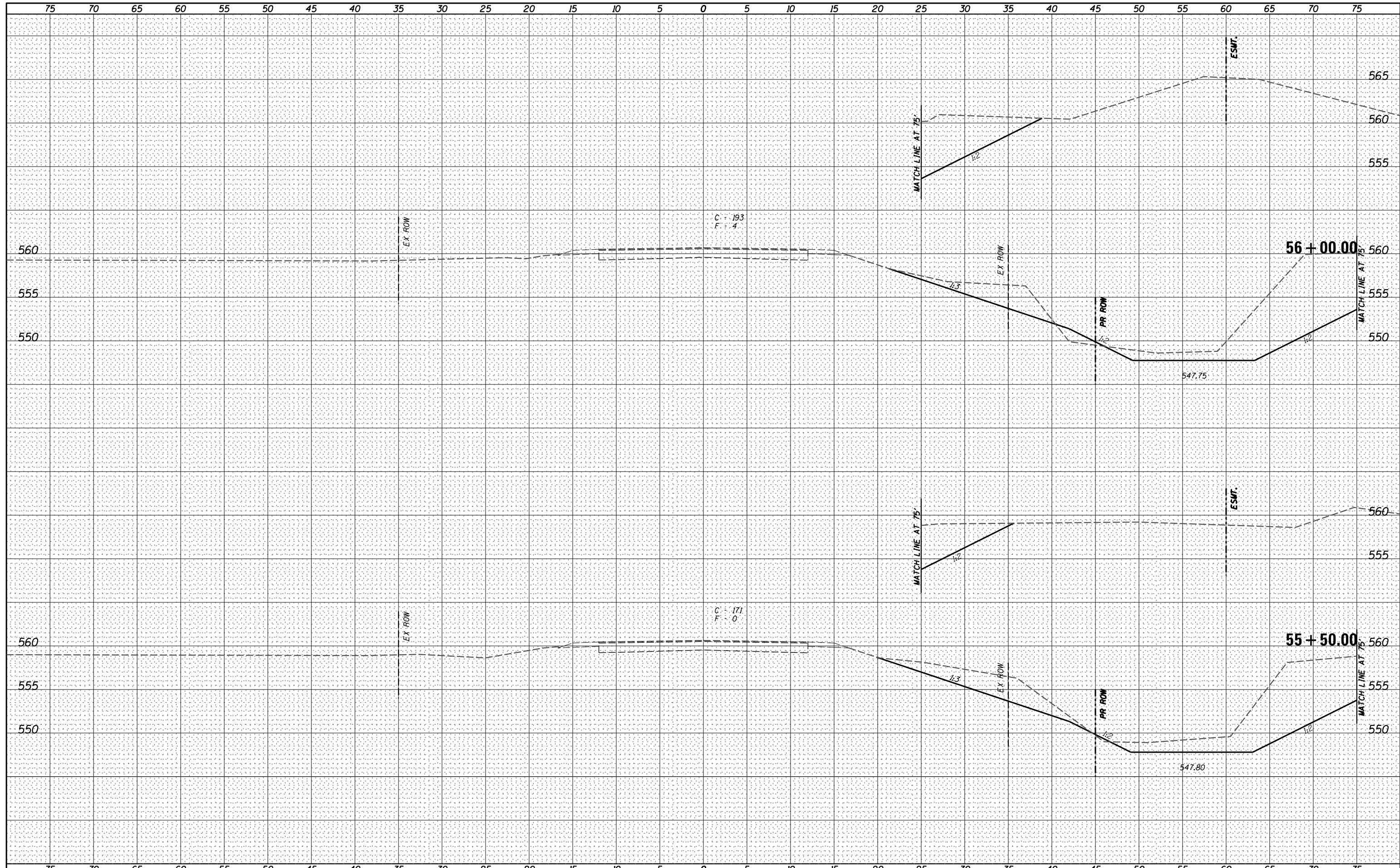
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 9 OF 34 SHEETS STA. 54+50.00 TO STA. 55+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	51
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

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 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

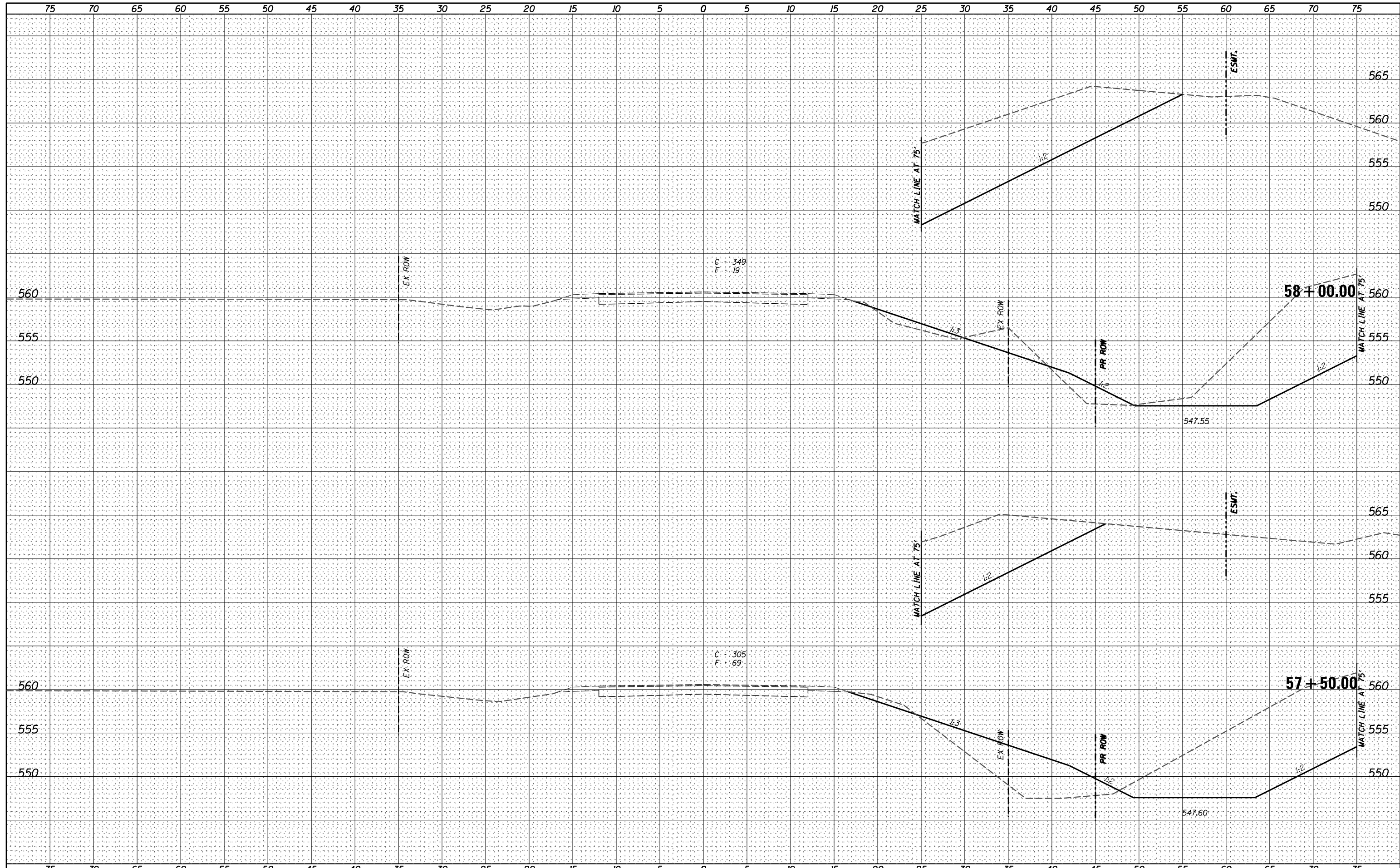
SCALE: 1" = 5' SHEET NO. 10 OF 34 SHEETS STA. 55+50.00 TO STA. 56+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	52
CONTRACT NO. 93721				

ILLINOIS FED. AID PROJECT

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

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



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PLOT SCALE = *SCALE*	CHECKED - _____	REVISED - _____
PLOT DATE = *DATE*	DATE - _____	REVISED - _____

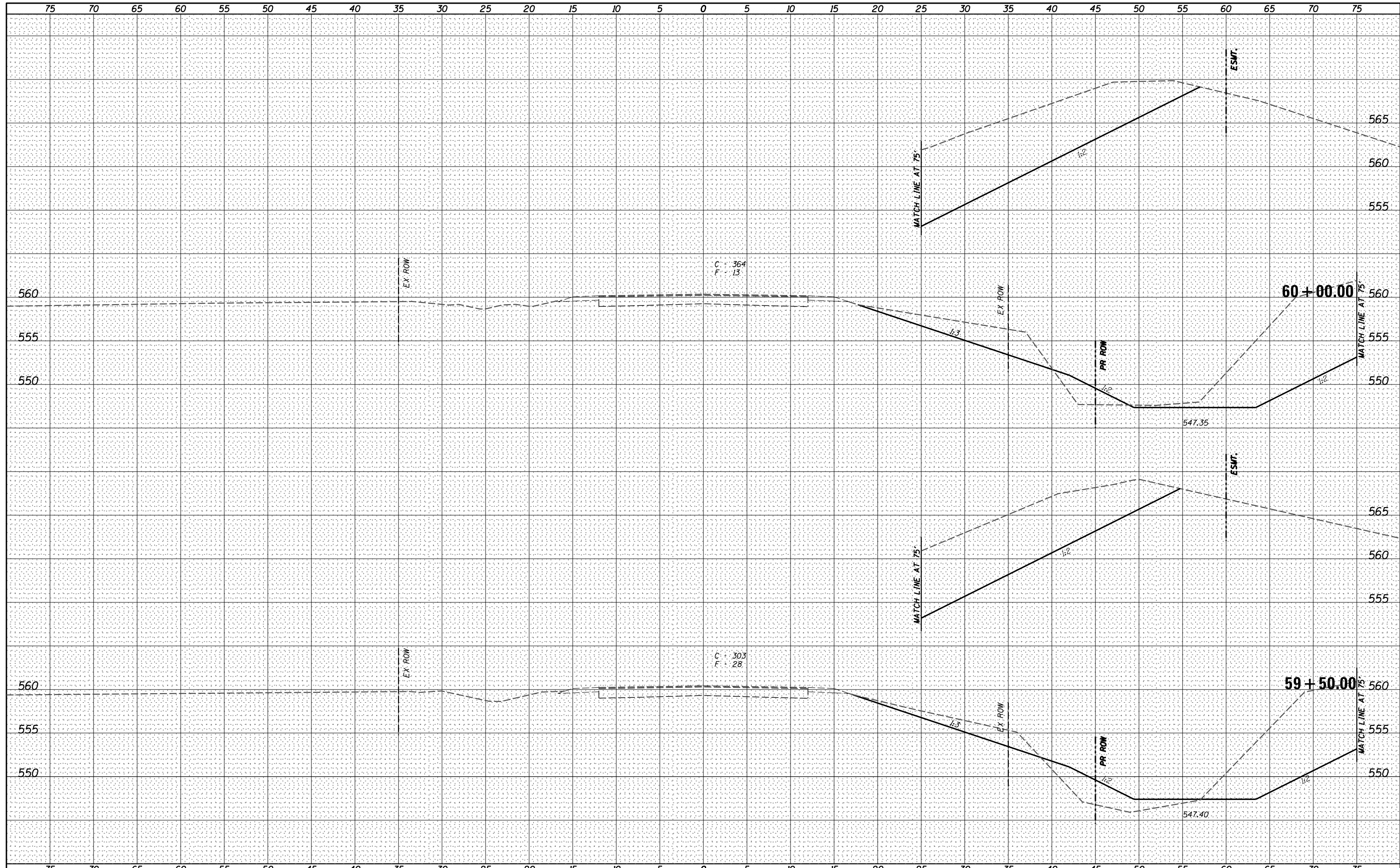
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS	
SCALE: 1" = 5'	SHEET NO. 12 OF 34 SHEETS
STA. 57+50.00 TO STA. 58+00.00	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	54
				CONTRACT NO. 93721
ILLINOIS FED. AID PROJECT				

BY: _____ DATE: _____
 ORIGINAL SURVEY PLOTTED _____
 SURVEYED PLOTTED _____
 NOTE BOOK TEMPLATE _____
 AREAS CHECKED _____
 AREAS CHECKED _____

BY: _____ DATE: _____
 ORIGINAL SURVEY PLOTTED _____
 SURVEYED PLOTTED _____
 NOTE BOOK TEMPLATE _____
 AREAS CHECKED _____
 AREAS CHECKED _____



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 Springfield, IL Phone: (217)544-8033

USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

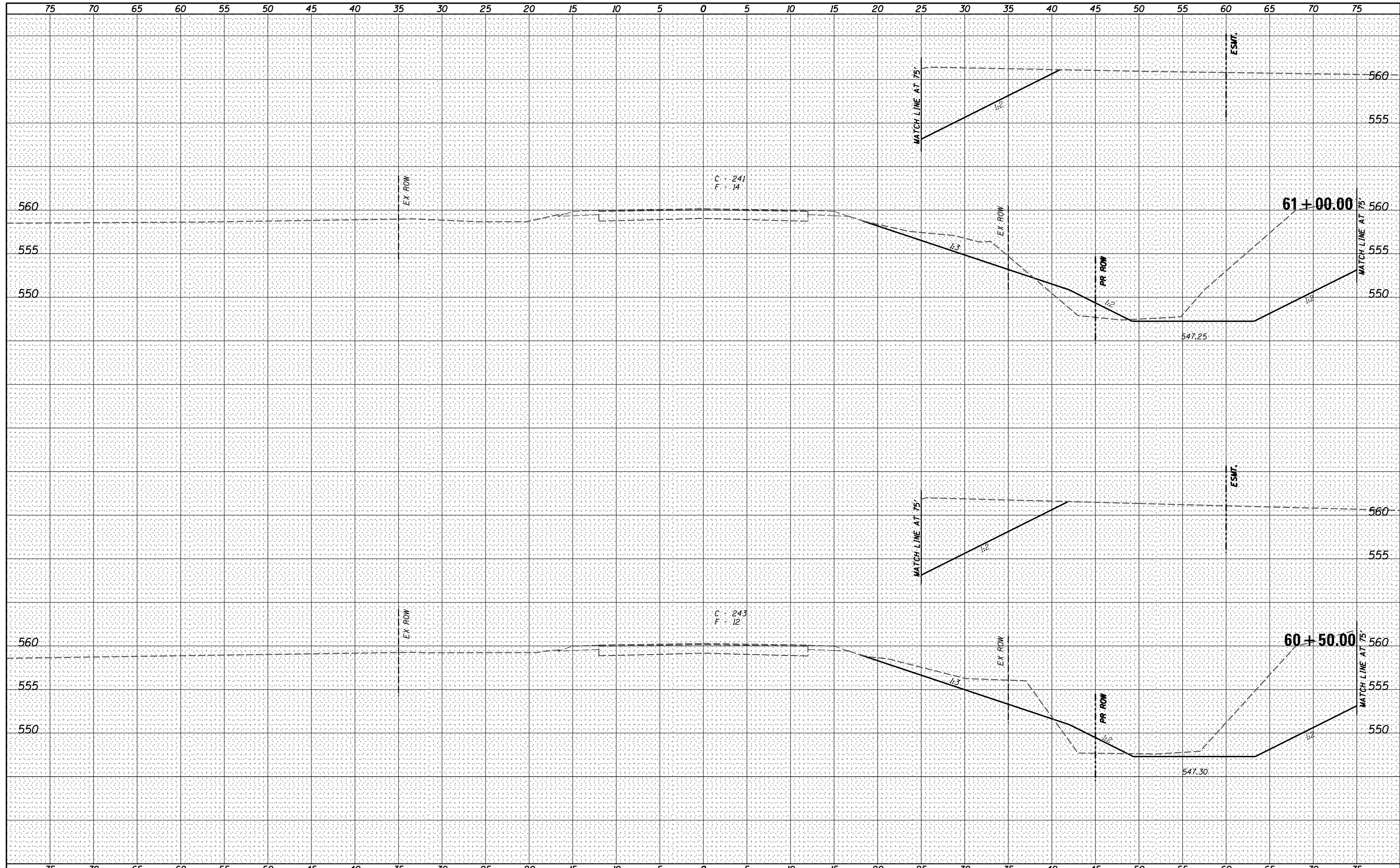
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 14 OF 34 SHEETS
 STA. 59+50.00 TO STA. 60+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	56
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

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

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



USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

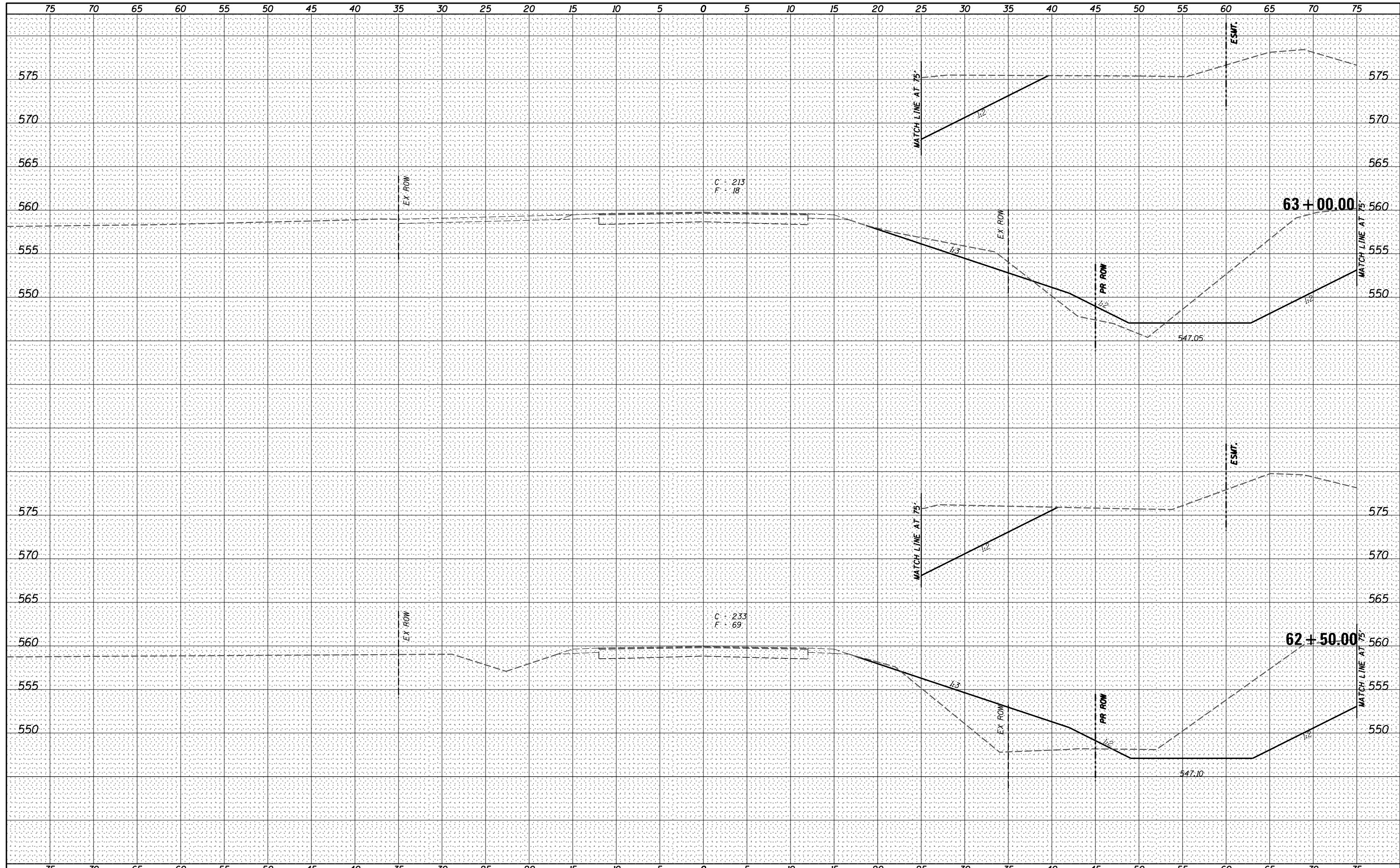
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 15 OF 34 SHEETS STA. 60+50.00 TO STA. 61+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	57
				CONTRACT NO. 93721
ILLINOIS FED. AID PROJECT				

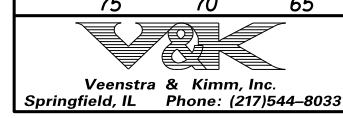
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

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



C = 213
F = 18

C = 233
F = 69



USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

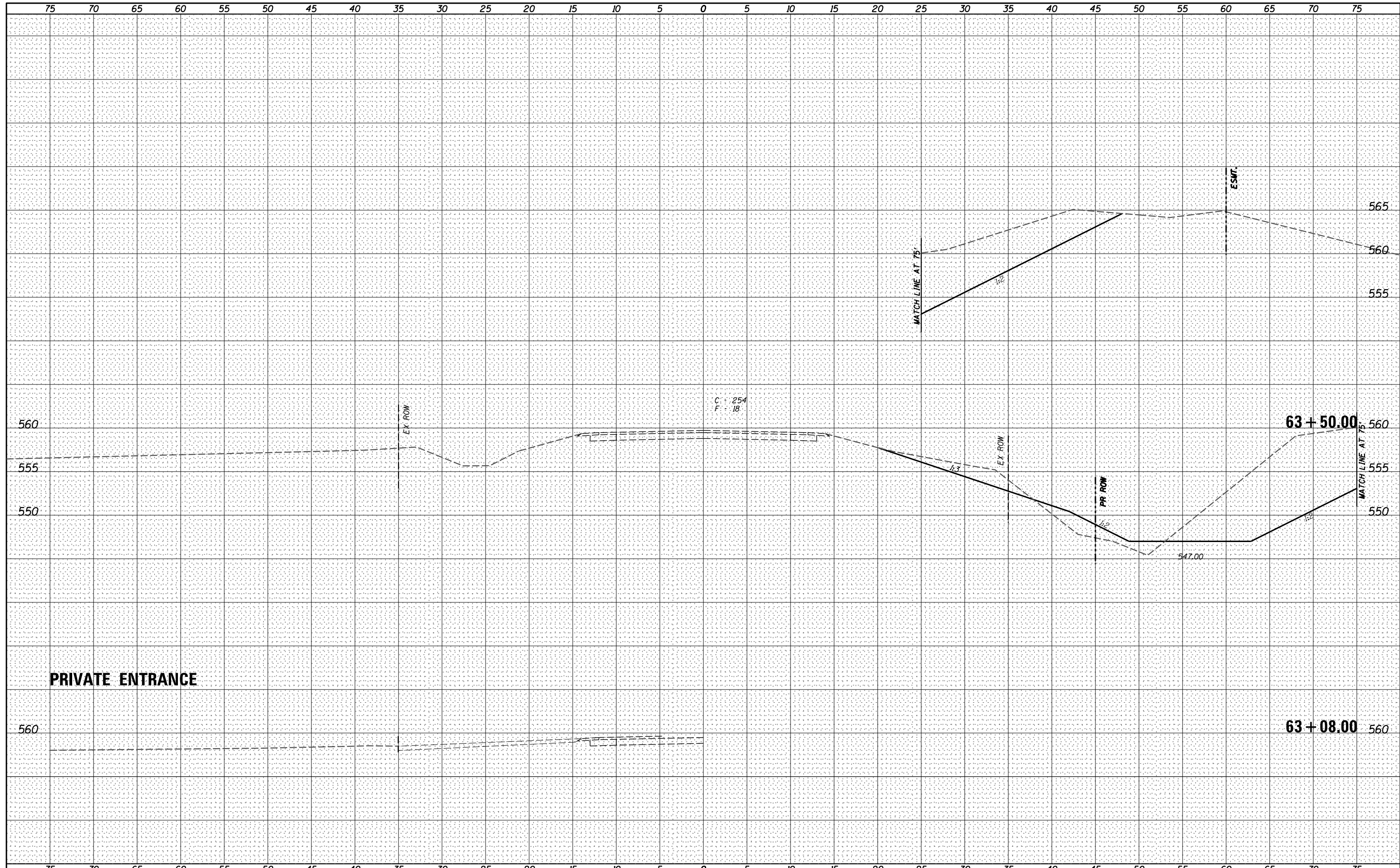
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 17 OF 34 SHEETS STA. 62+50.00 TO STA. 63+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	59
				CONTRACT NO. 93721
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = *USER*	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = *SCALE*	CHECKED - _____	REVISED - _____
PLOT DATE = *DATE*	DATE - _____	REVISED - _____

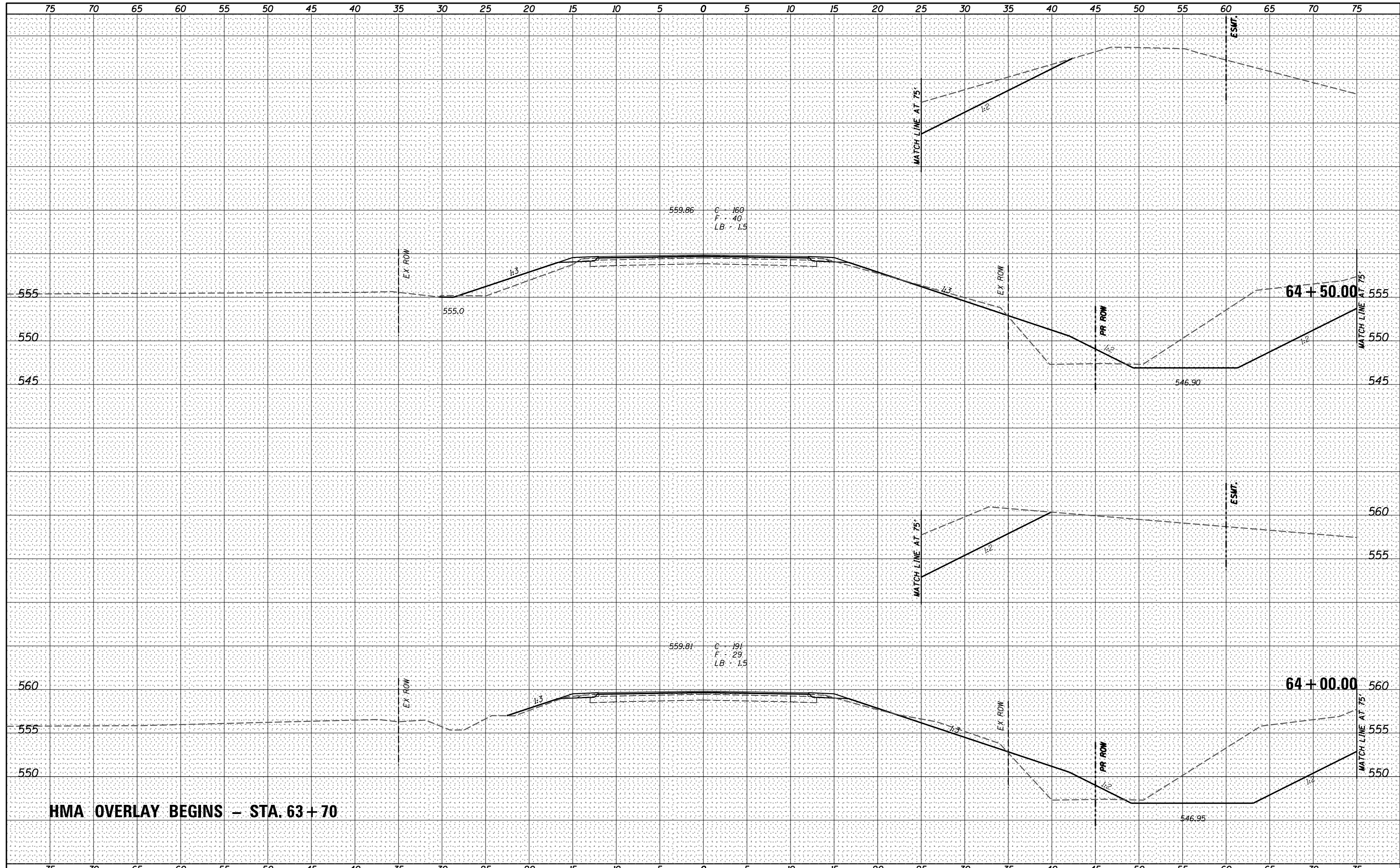
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 18 OF 34 SHEETS
 STA. 63+08.00 TO STA. 63+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	60
				CONTRACT NO. 93721
ILLINOIS FED. AID PROJECT				

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

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



HMA OVERLAY BEGINS - STA. 63+70



USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

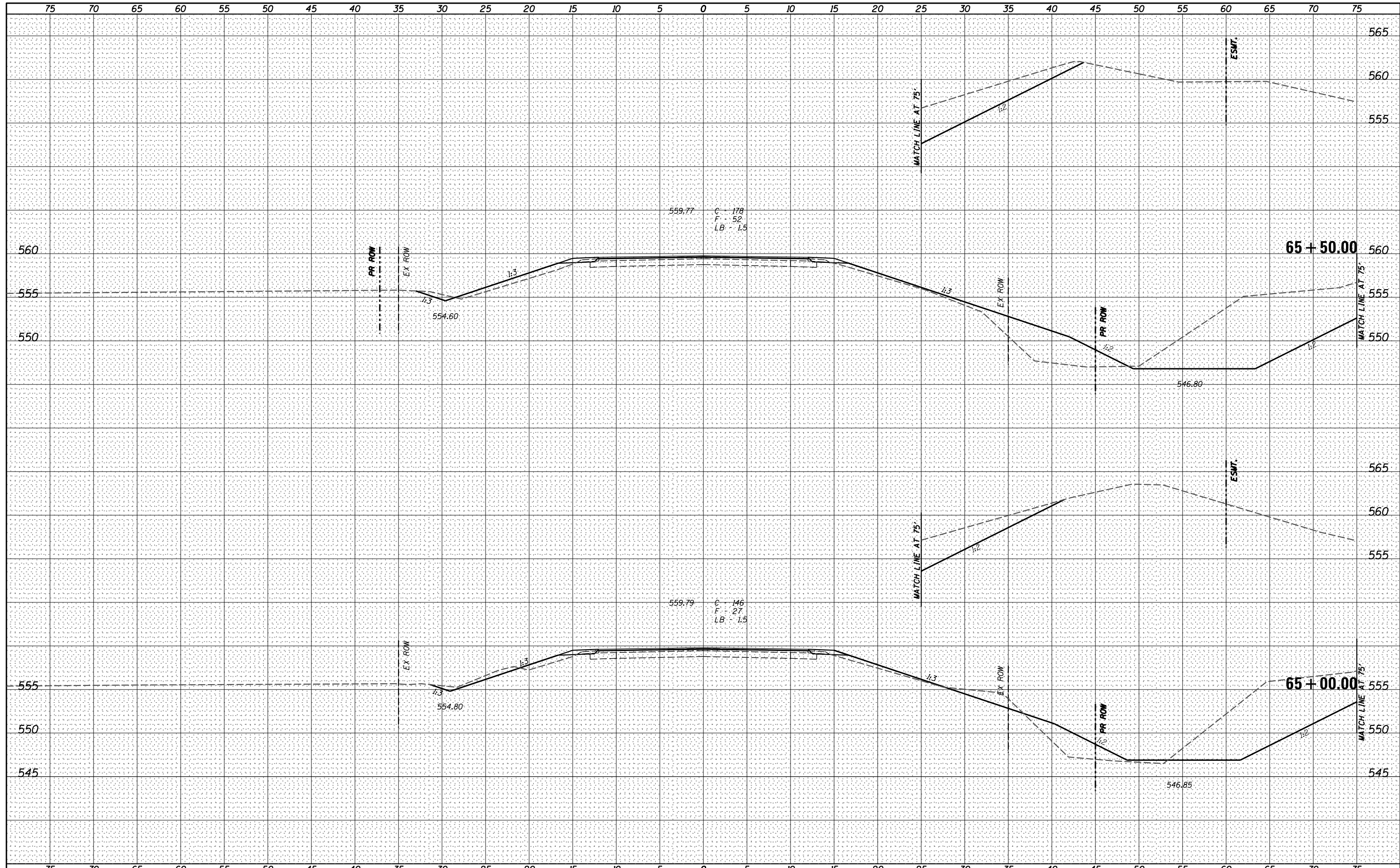
CROSS SECTIONS
SCALE: 1" = 5'
SHEET NO. 19 OF 34 SHEETS
STA. 64+00.00 TO STA. 64+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	61
CONTRACT NO. 93721				

ILLINOIS FED. AID PROJECT

DATE _____
 BY _____
 ORIGINAL SURVEY NO. _____
 SURVEYED PLOTTED AREAS CHECKED
 FINISHED SURVEY NO. _____
 SURVEYED PLOTTED AREAS CHECKED

DATE _____
 BY _____
 ORIGINAL SURVEY NO. _____
 SURVEYED PLOTTED AREAS CHECKED
 FINISHED SURVEY NO. _____
 SURVEYED PLOTTED AREAS CHECKED



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 Springfield, IL Phone: (217)544-8033

USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

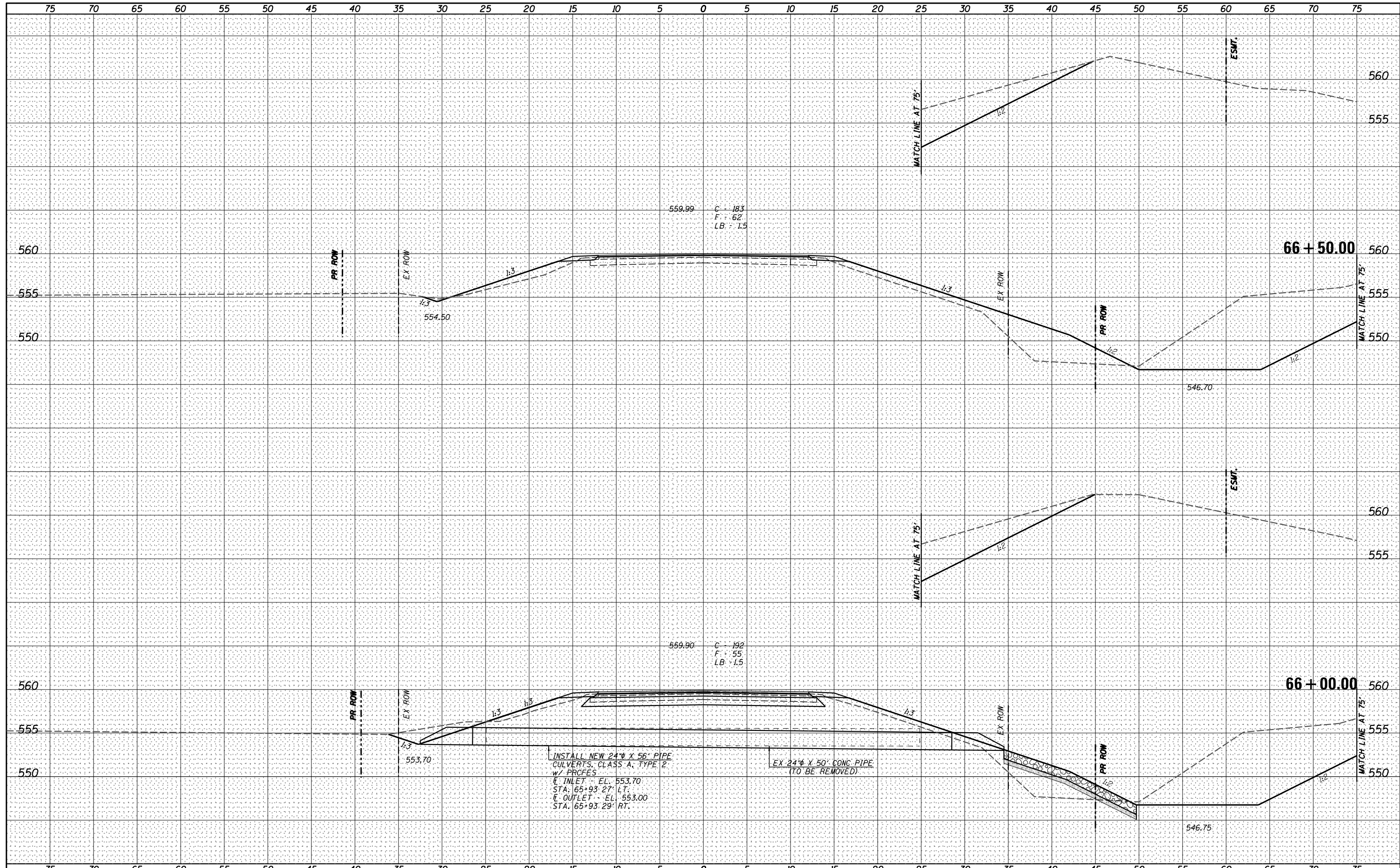
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 20 OF 34 SHEETS
 STA. 65+00.00 TO STA. 65+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	62
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

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

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



USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

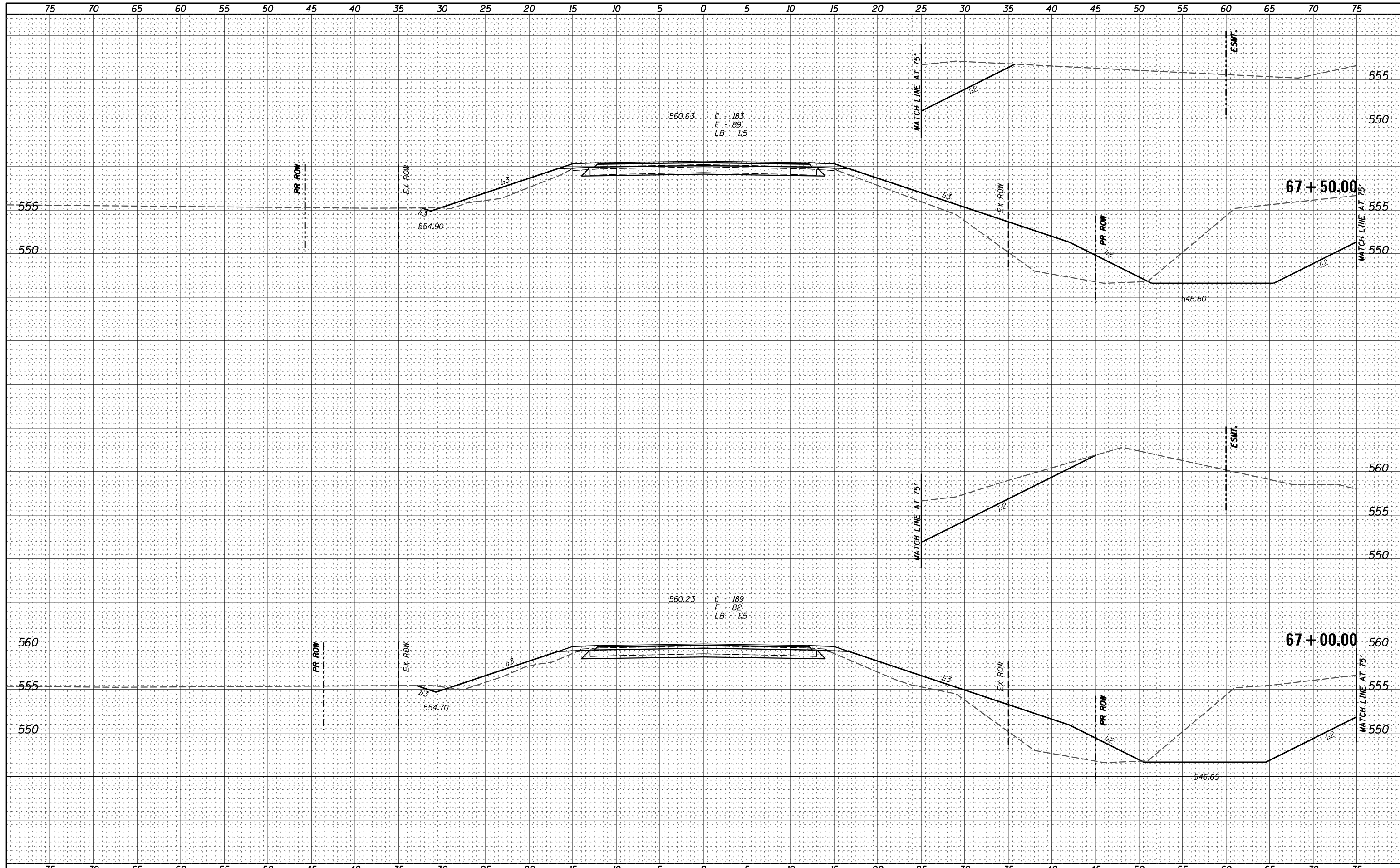
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS		
SCALE: 1" = 5'	SHEET NO. 21 OF 34 SHEETS	STA. 66+00.00 TO STA. 66+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	63
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____



USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

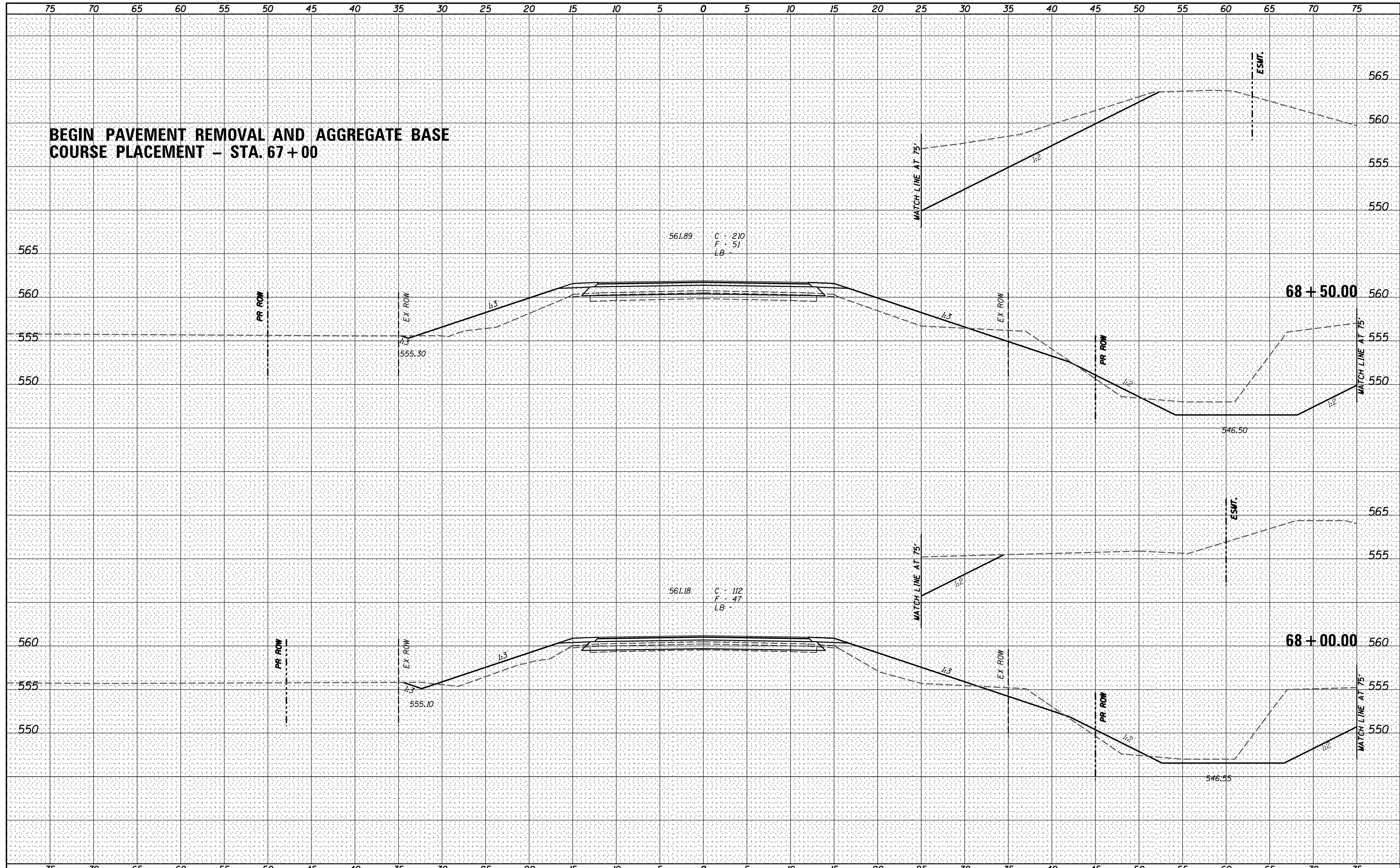
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 22 OF 34 SHEETS STA. 67+00.00 TO STA. 67+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	64
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

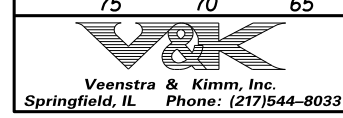
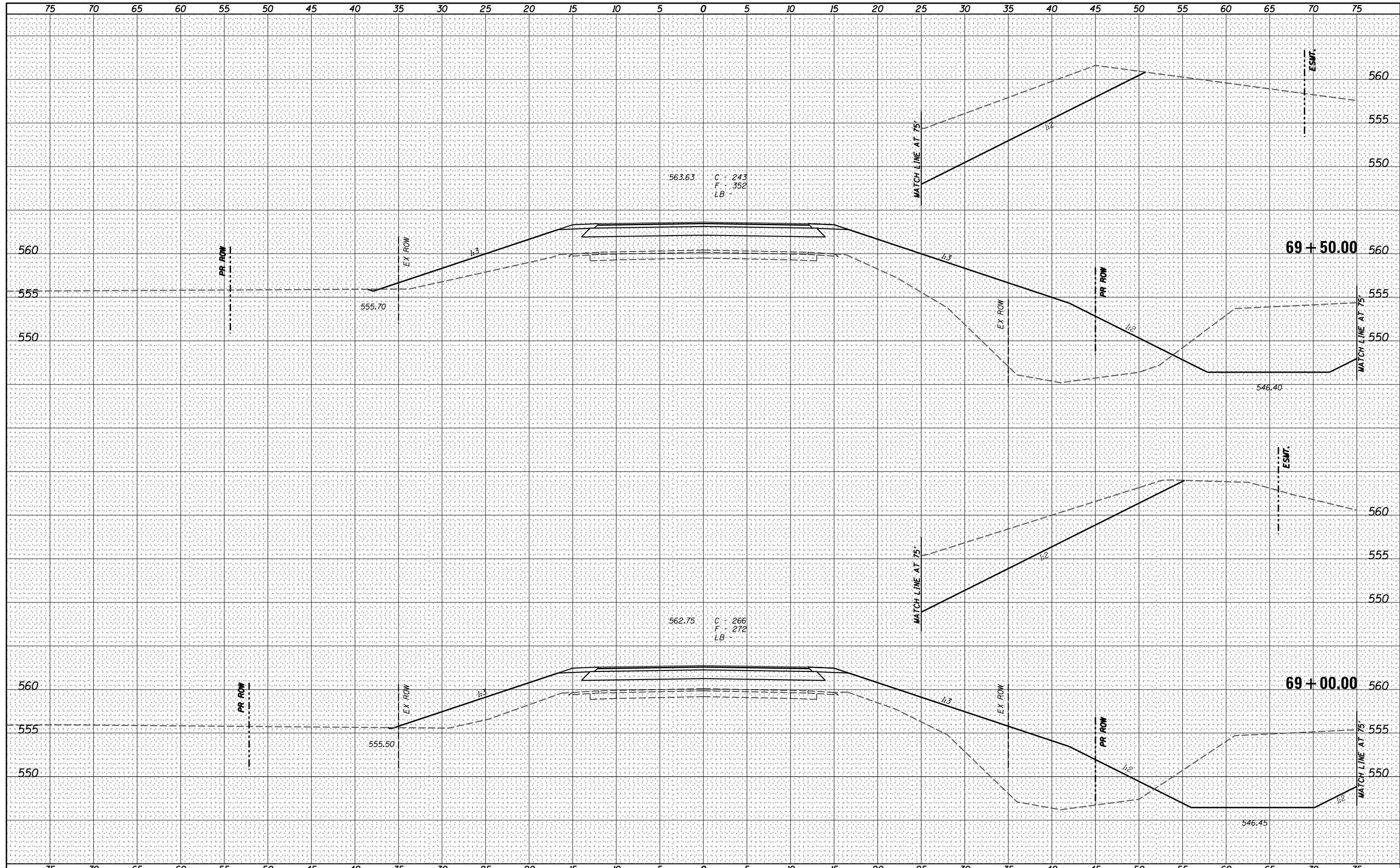
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 23 OF 34 SHEETS
 STA. 68+00.00 TO STA. 68+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	65
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____



USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

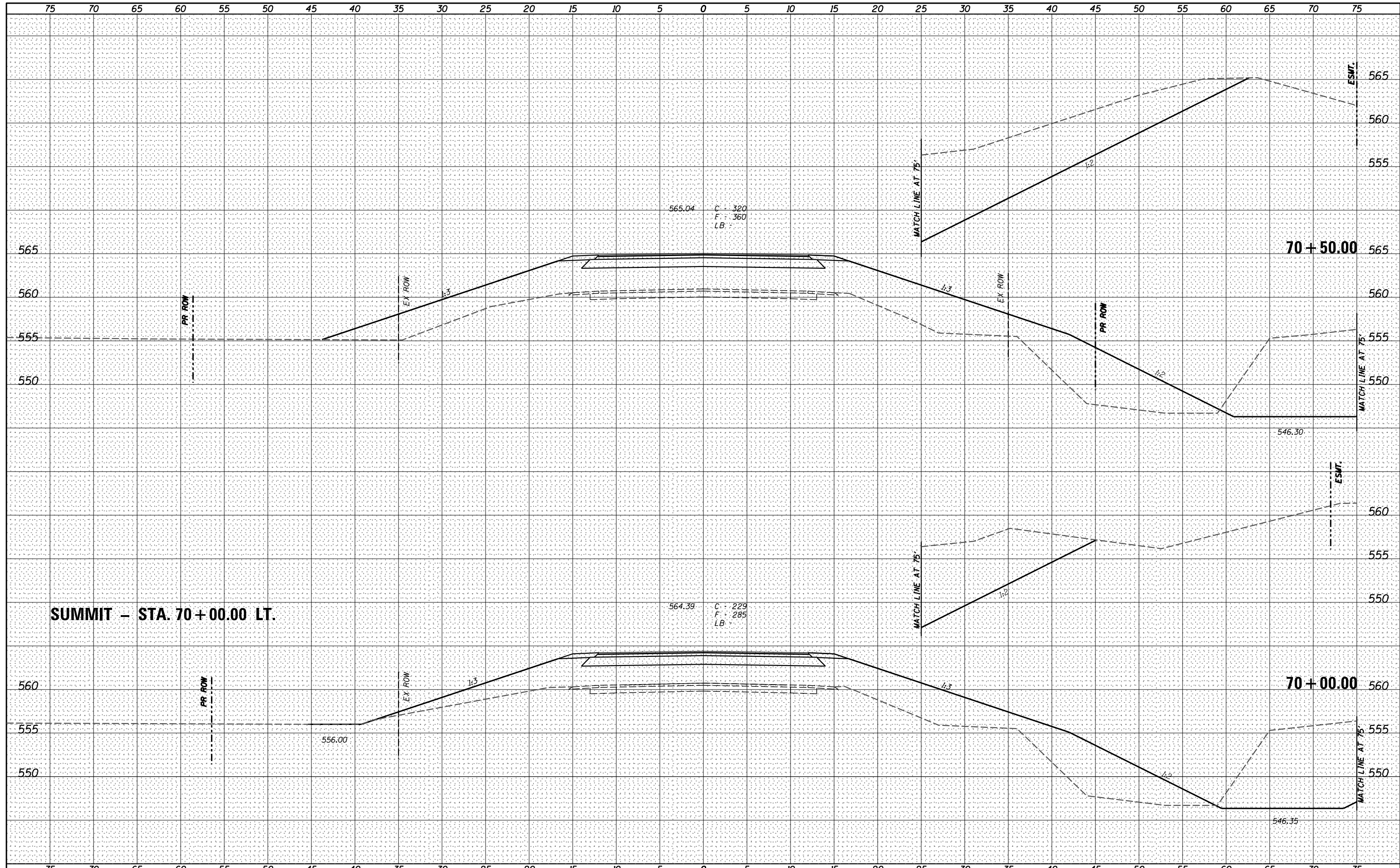
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 24 OF 34 SHEETS STA. 69+00.00 TO STA. 69+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	66
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

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

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



SUMMIT - STA. 70+00.00 LT.



USER NAME = *USER*	DESIGNED - _____	REVISD - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISD - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISD - _____
	DATE - _____	REVISD - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

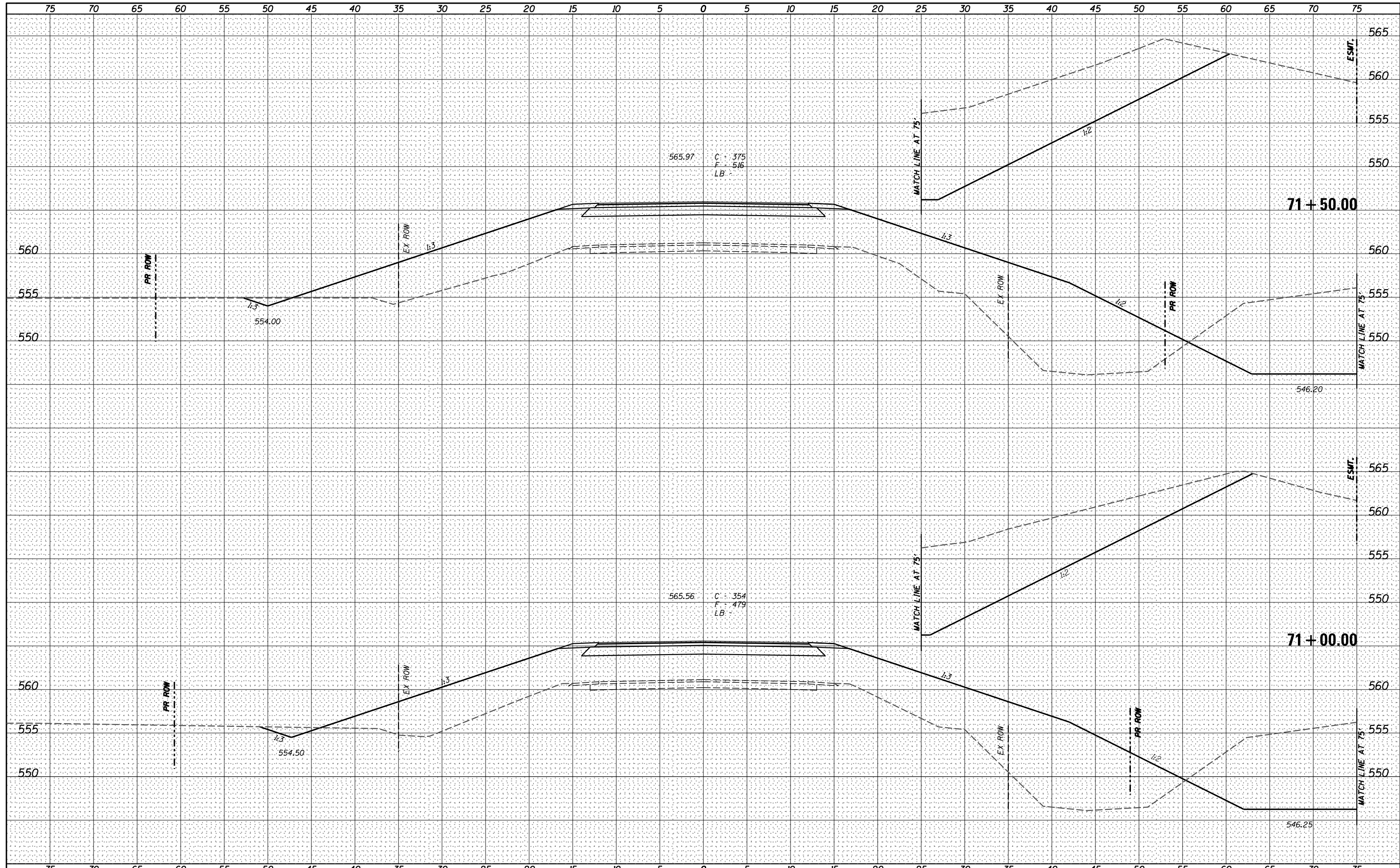
CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 25 OF 34 SHEETS
 STA. 70+00.00 TO STA. 70+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	67
CONTRACT NO. 93721				

ILLINOIS FED. AID PROJECT

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

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



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USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

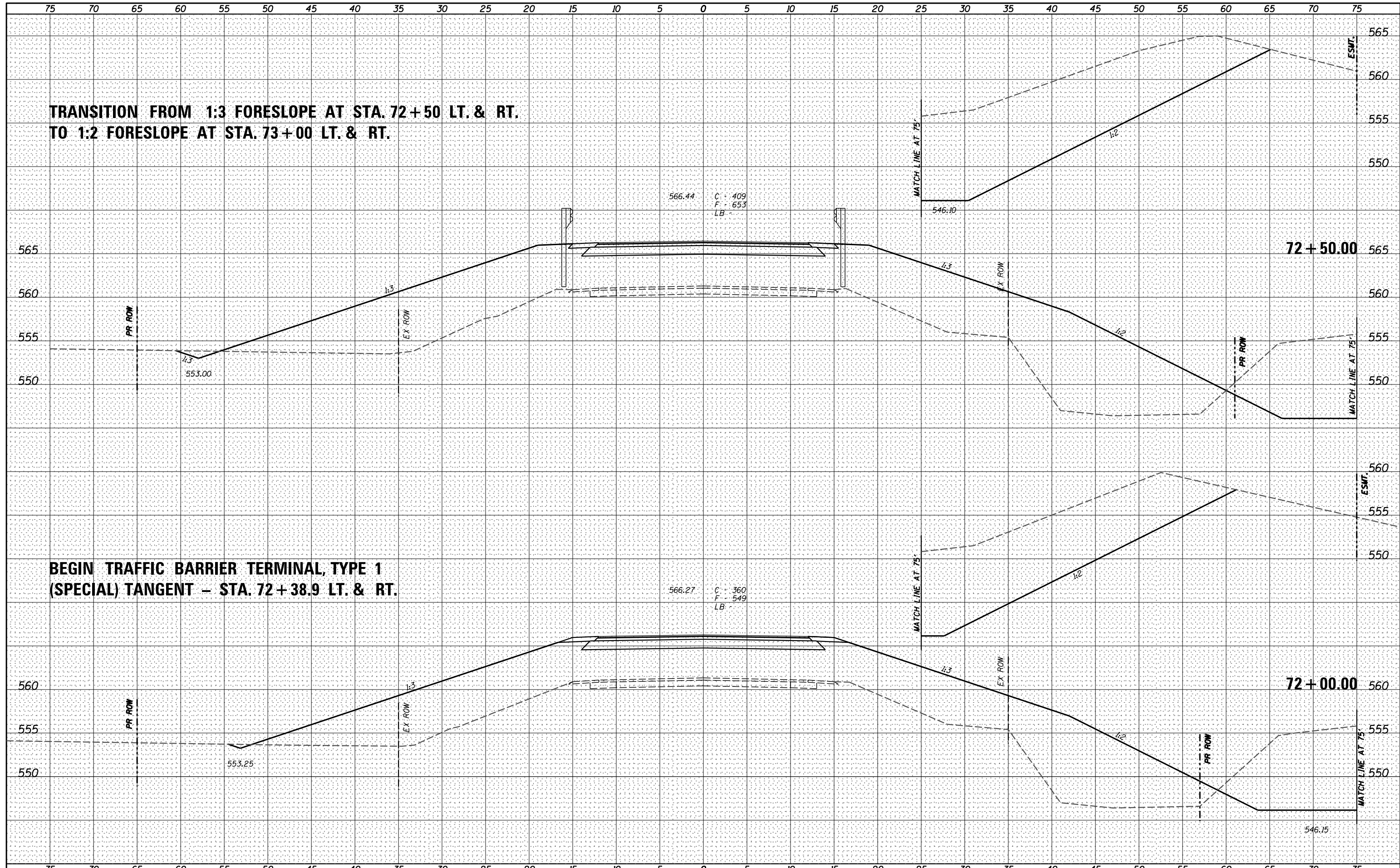
CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 26 OF 34 SHEETS
 STA. 71+00.00 TO STA. 71+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	68
CONTRACT NO. 93721				

ILLINOIS FED. AID PROJECT

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

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



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USER NAME = *USERS*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

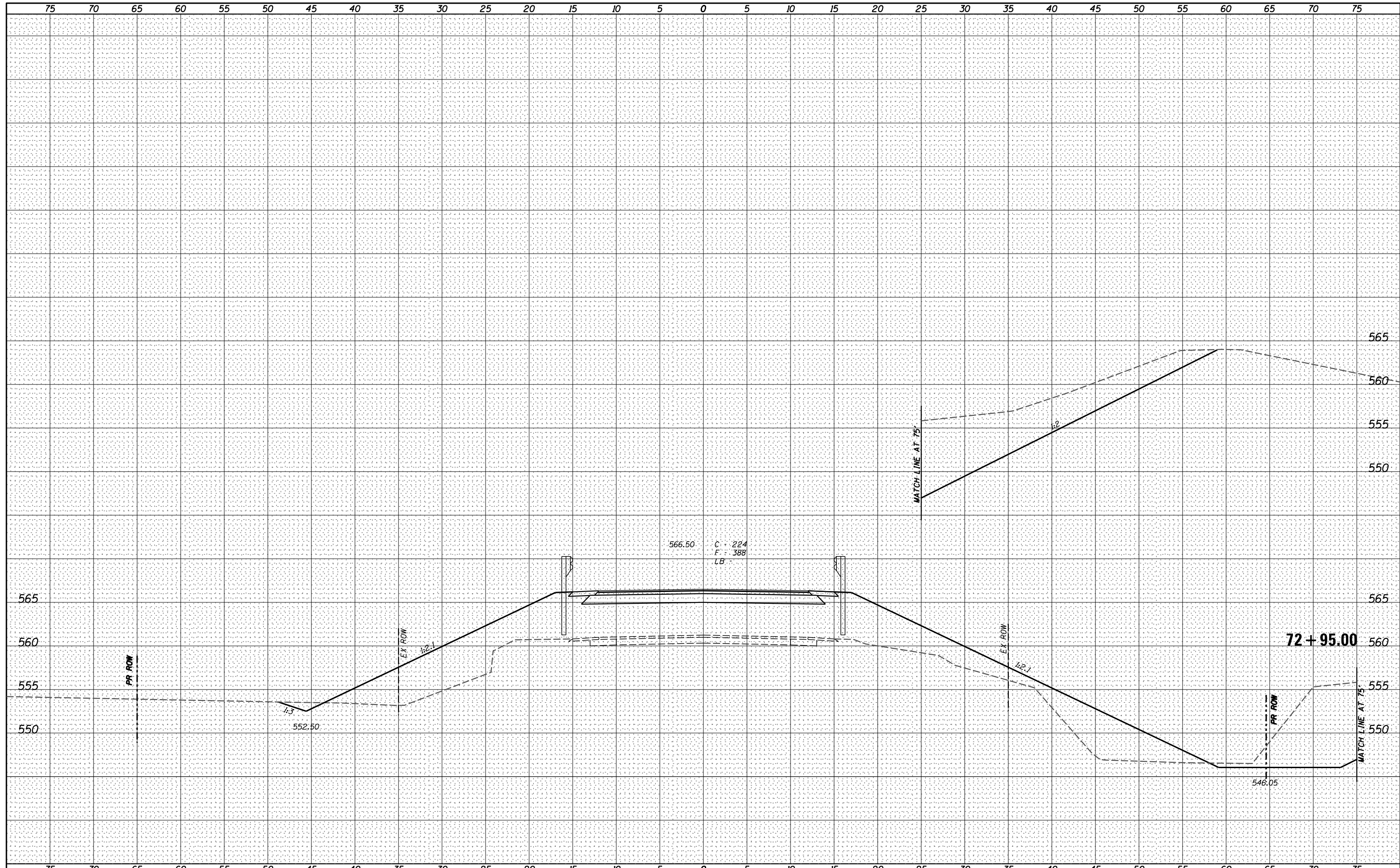
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 27 OF 34 SHEETS STA. 72+00.00 TO STA. 72+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	69
CONTRACT NO. 93721			ILLINOIS FED. AID PROJECT	

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

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



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USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

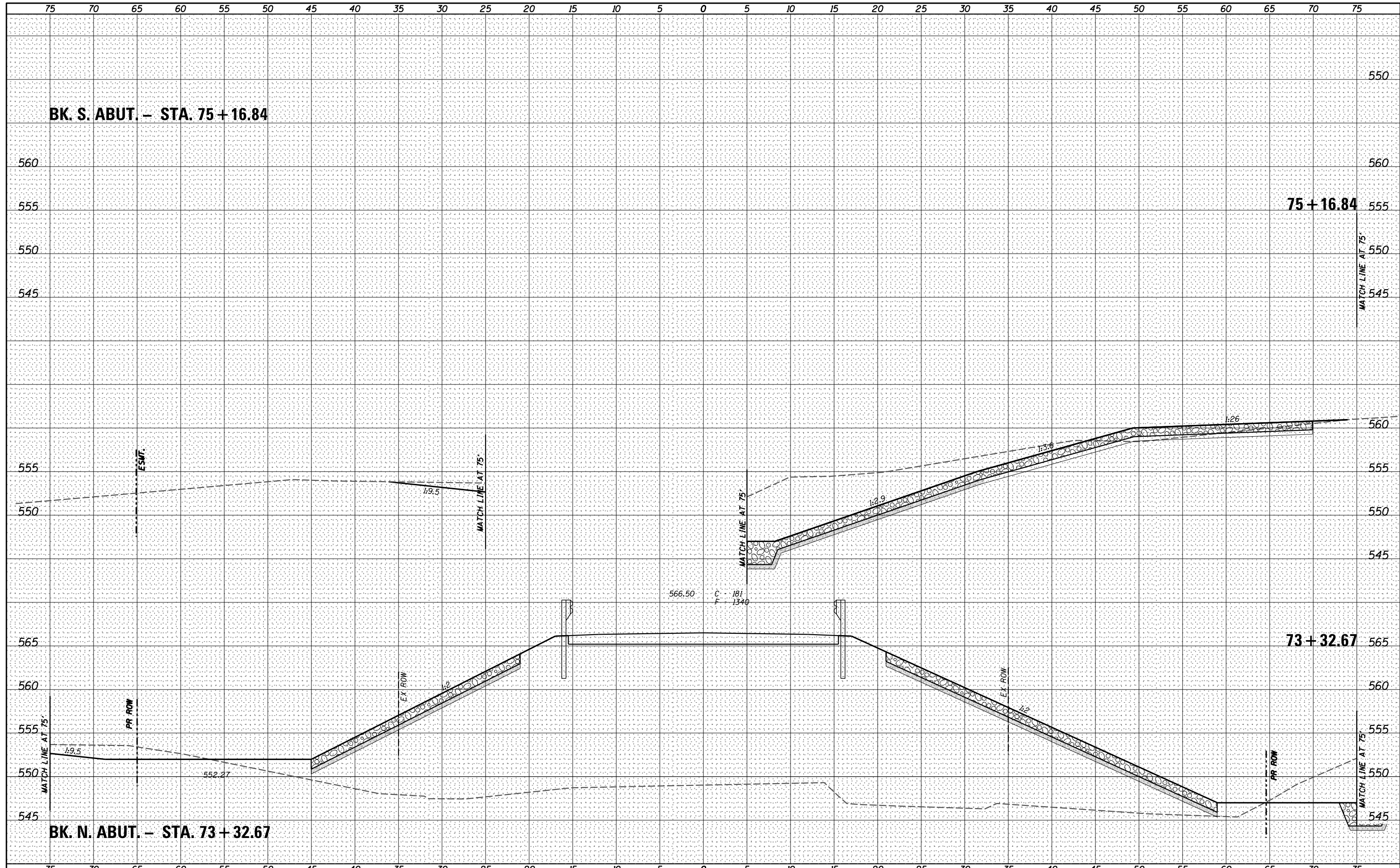
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 28 OF 34 SHEETS STA. 72+95.00 TO STA. 73+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	70
				CONTRACT NO. 93721
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME : *USERS*	DESIGNED - _____	REVISED - _____
PLOT SCALE : *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE : *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

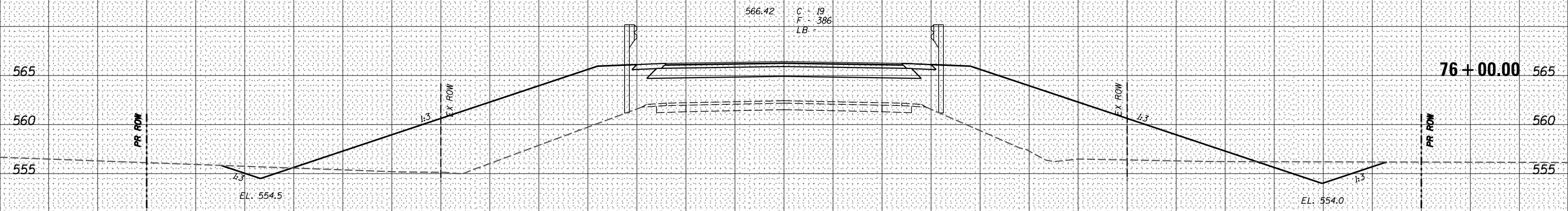
SCALE: 1" = 5' SHEET NO. 29 OF 34 SHEETS STA. 74+00.00 TO STA. 75+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	71
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

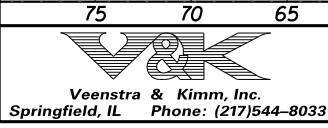
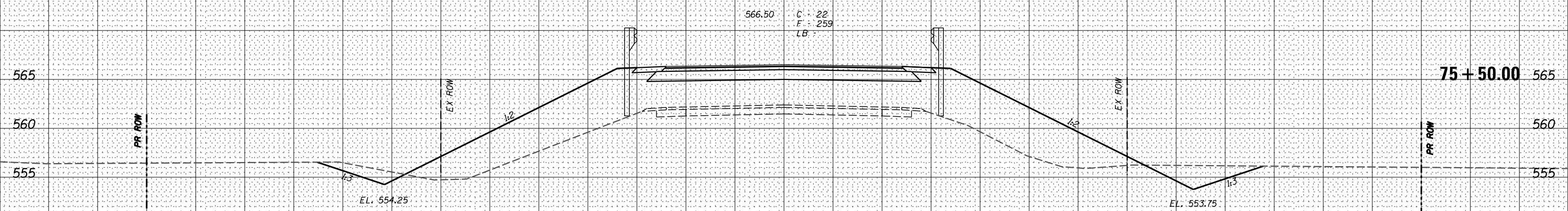
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

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

**END TRAFFIC BARRIER TERMINAL, TYPE 1
(SPECIAL) TANGENT - STA. 76+10.6 LT. & RT.**



**TRANSITION FROM 1:2 FORESLOPE AT STA. 75+50 LT. & RT.
TO 1:3 FORESLOPE AT STA. 76+00 LT. & RT.**



USER NAME = *USERS*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

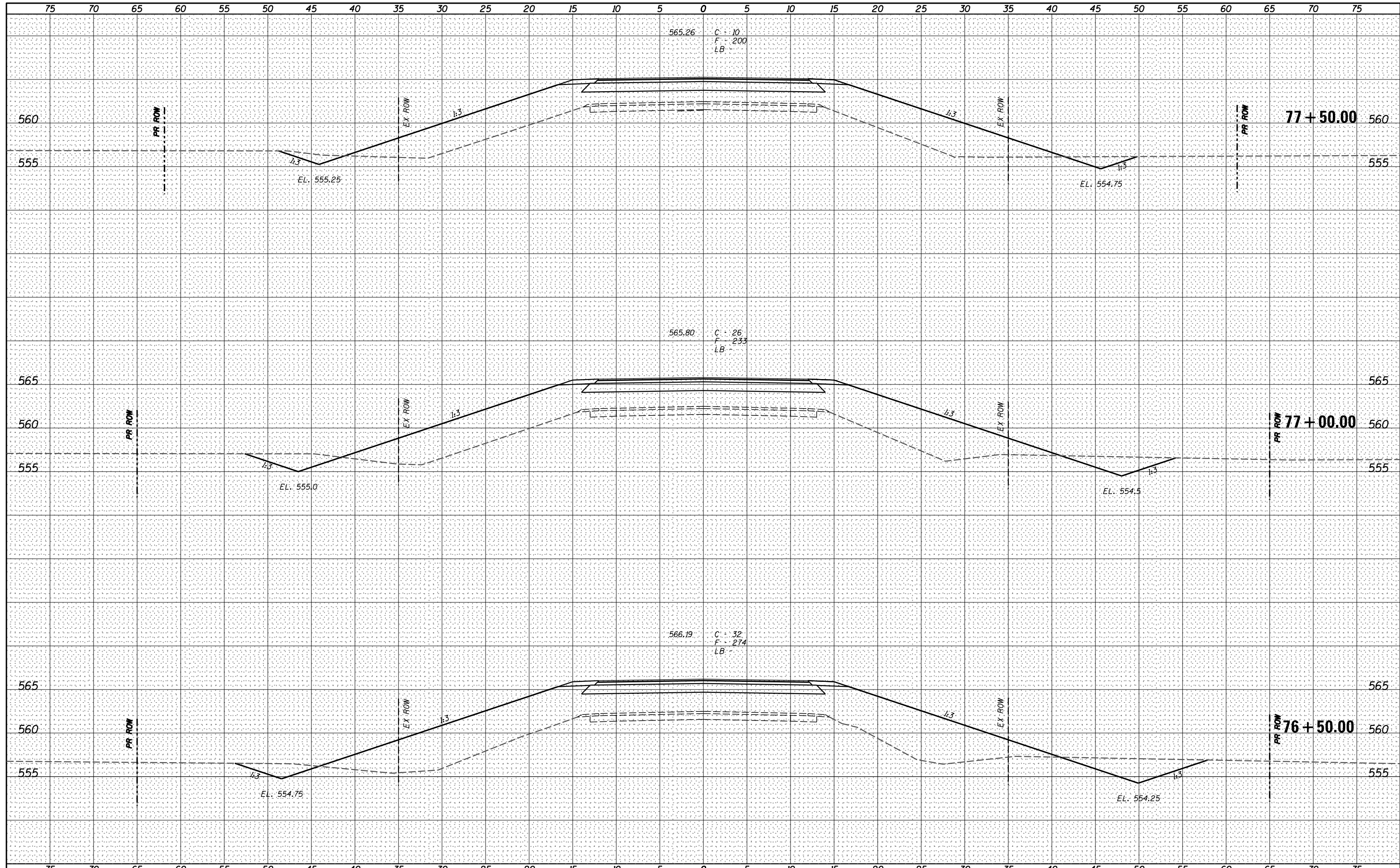
SCALE: 1" = 5' SHEET NO. 30 OF 34 SHEETS STA. 75+50.00 TO STA. 76+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	72
CONTRACT NO. 93721				

ILLINOIS FED. AID PROJECT

DATE _____
 BY _____
 ORIGINAL SURVEY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS _____
 CHECKED _____

DATE _____
 BY _____
 ORIGINAL SURVEY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS _____
 CHECKED _____



USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

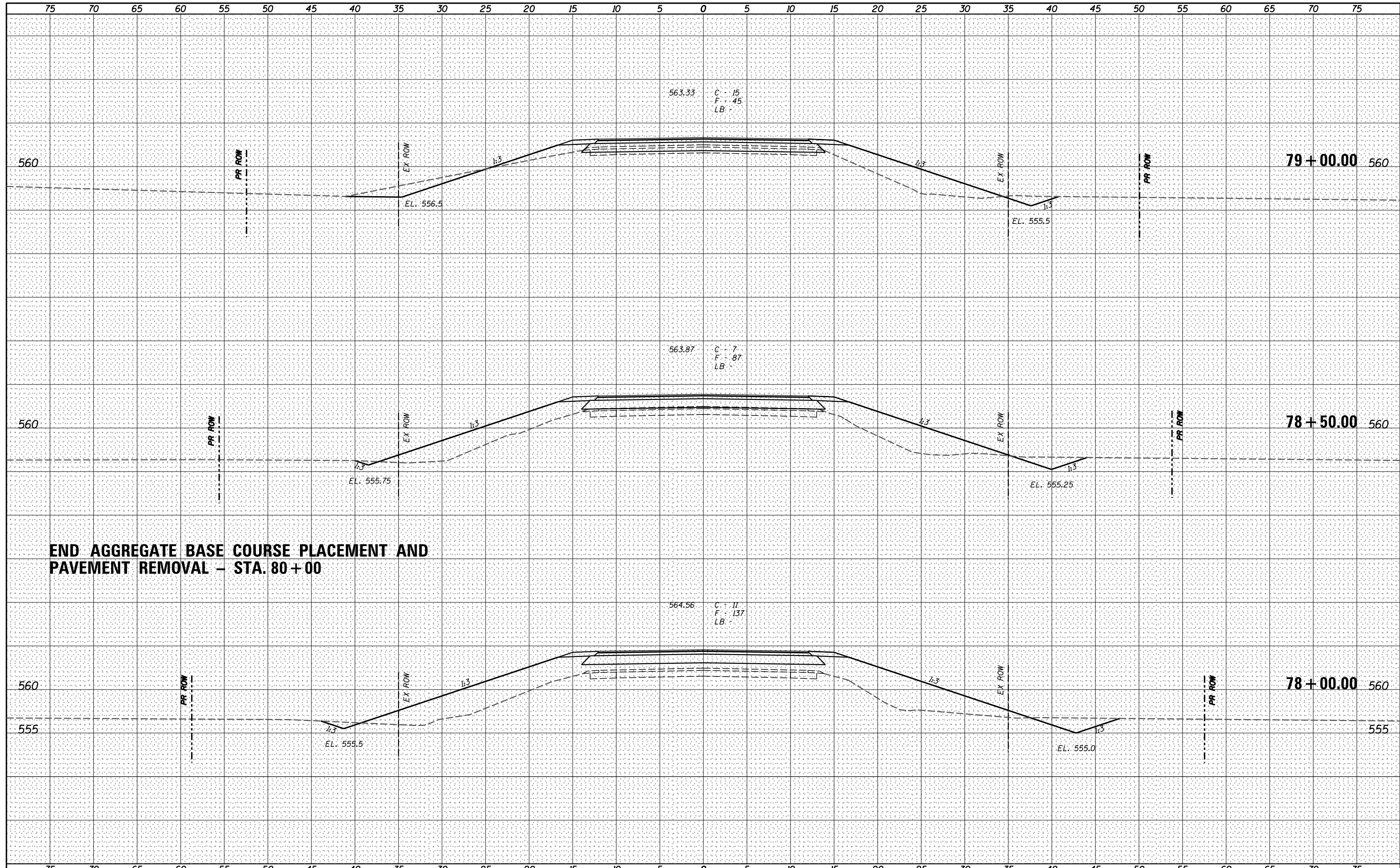
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 31 OF 34 SHEETS STA. 76+50.00 TO STA. 77+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	73
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 AREAS CHECKED _____
 NO. _____

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 AREAS CHECKED _____
 NO. _____



END AGGREGATE BASE COURSE PLACEMENT AND PAVEMENT REMOVAL – STA. 80 + 00

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USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

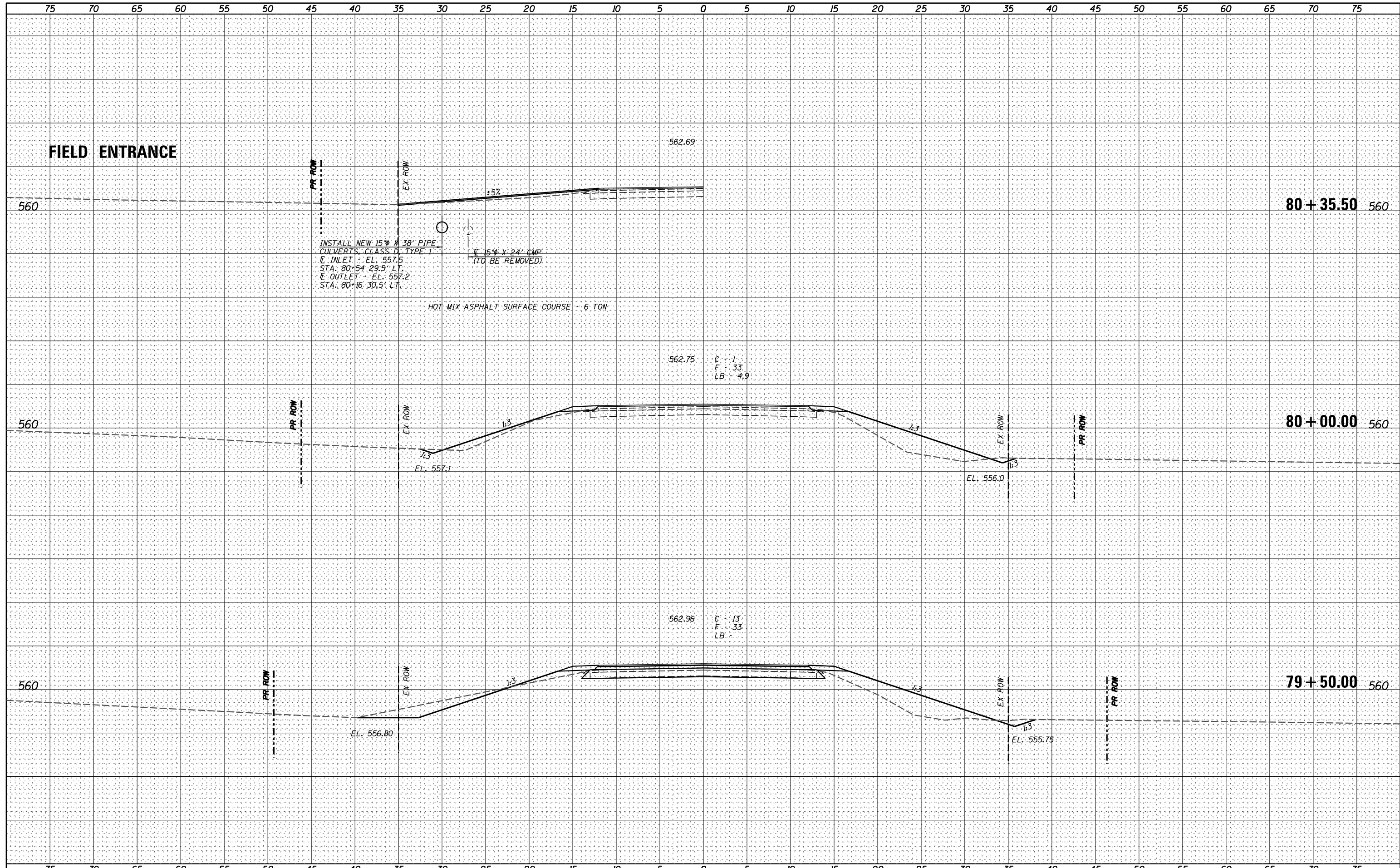
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 32 OF 34 SHEETS
 STA. 78+00.00 TO STA. 79+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	74
CONTRACT NO. 93721				
<small>ILLINOIS FED. AID PROJECT</small>				

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

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



USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

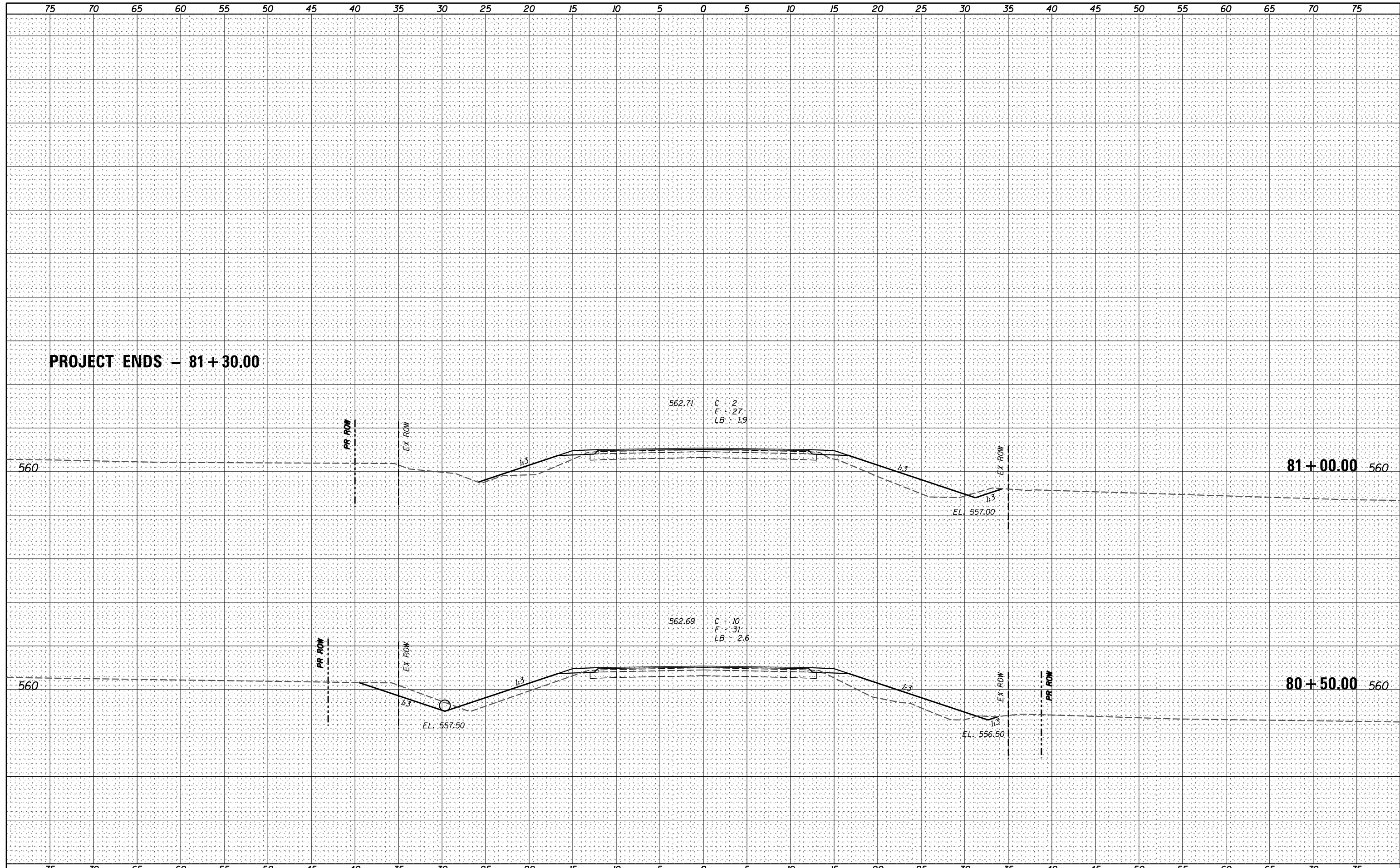
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 33 OF 34 SHEETS STA. 79+50.00 TO STA. 80+35.50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	75
				CONTRACT NO. 93721
ILLINOIS FED. AID PROJECT				

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

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



PROJECT ENDS - 81 + 30.00

562.71 C : 2
F : 27
LB : 1.9

562.69 C : 10
F : 31
LB : 2.6

81 + 00.00 560

80 + 50.00 560



USER NAME : *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE : *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE : *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

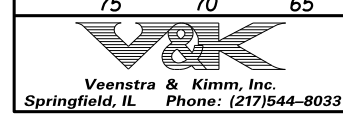
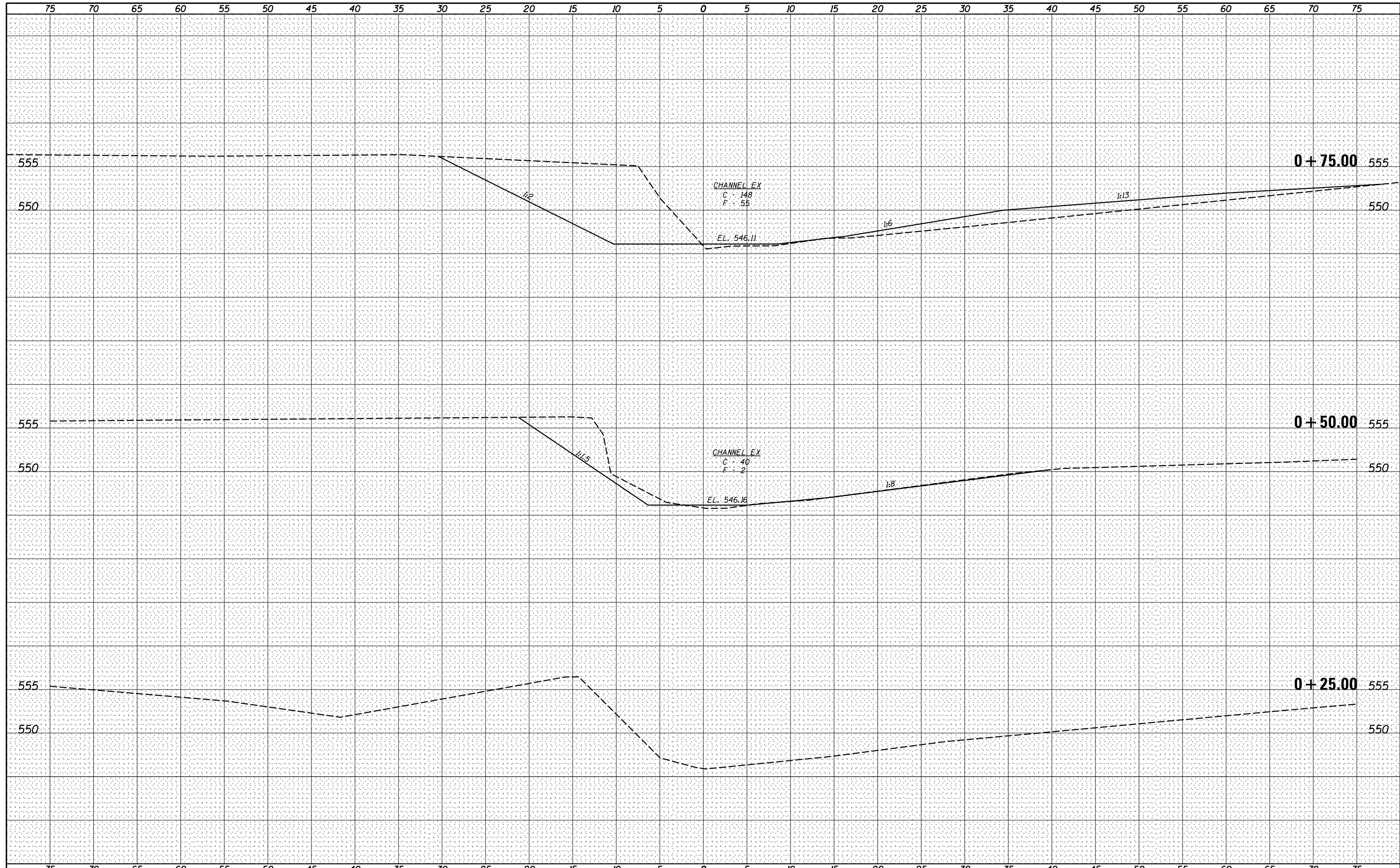
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 34 OF 34 SHEETS STA. 80+50.00 TO STA. 81+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	76
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

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

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



USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

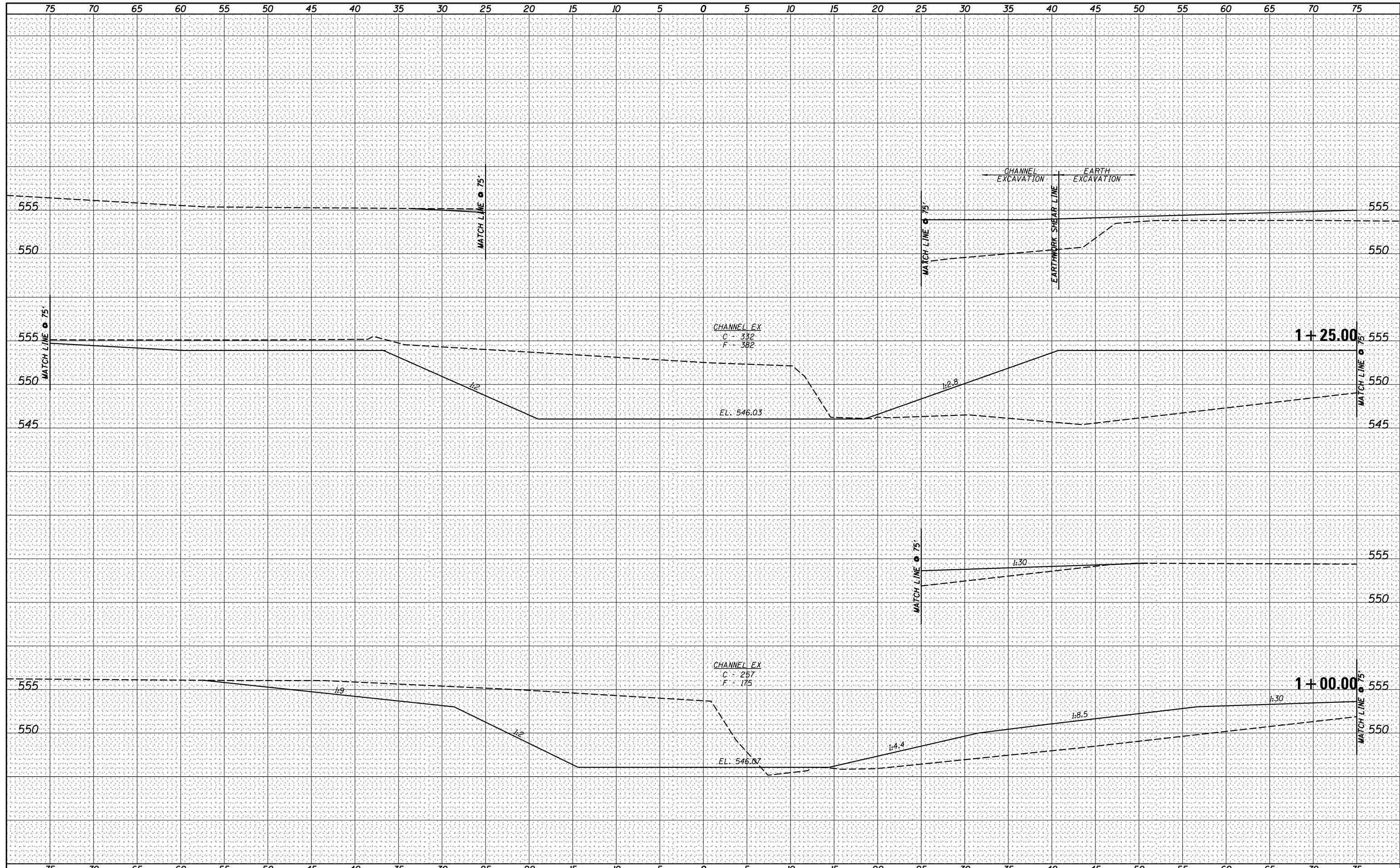
CHANNEL CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 1 OF 8 SHEETS STA. 0+25.00 TO STA. 0+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	77
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

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

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



V&K
Veenstra & Kimm, Inc.
 Springfield, IL Phone: (217)544-8033

USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

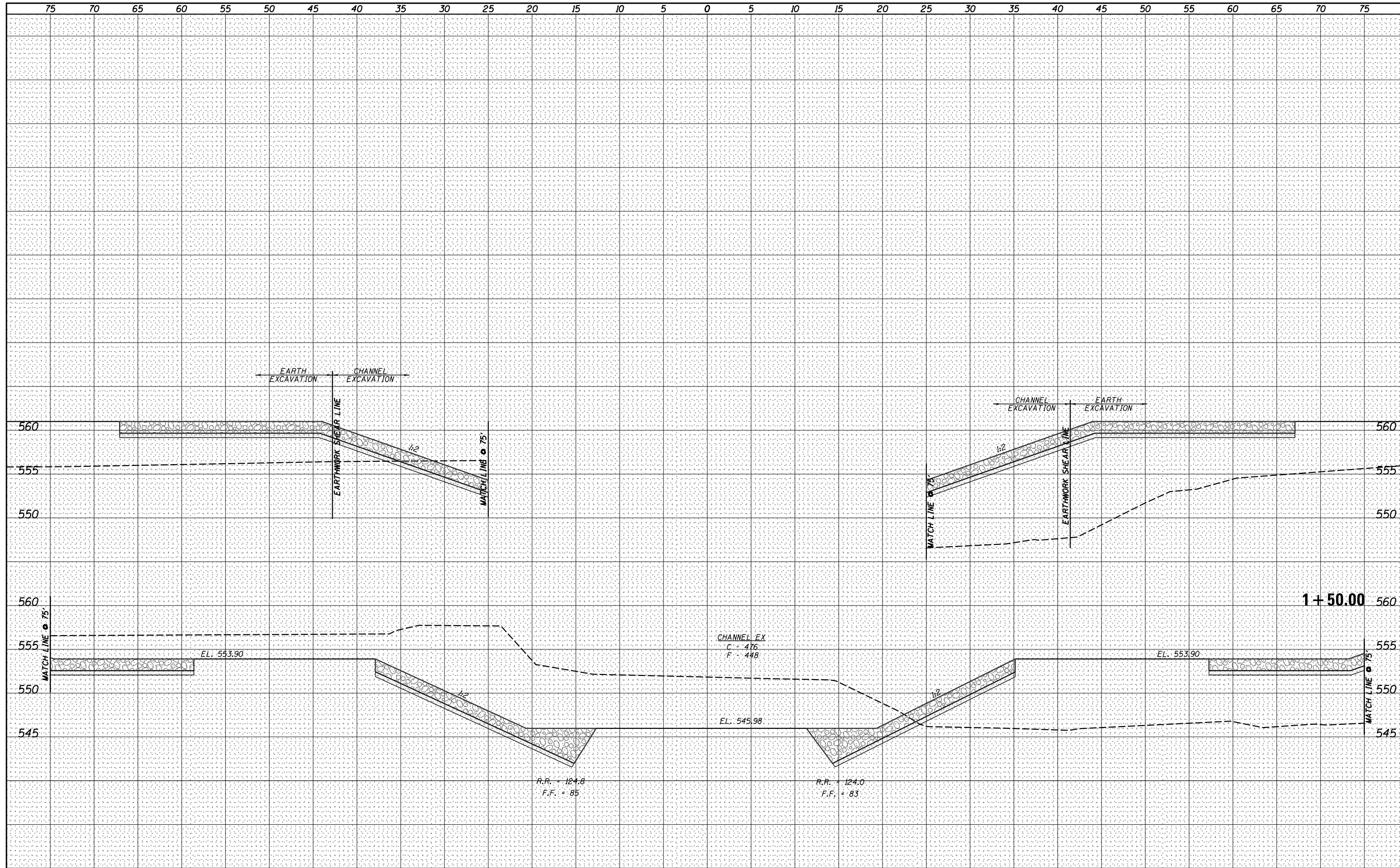
CHANNEL CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 2 OF 8 SHEETS STA. 1+00.00 TO STA. 1+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	78
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

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

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



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Springfield, IL Phone: (217)544-8033

USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

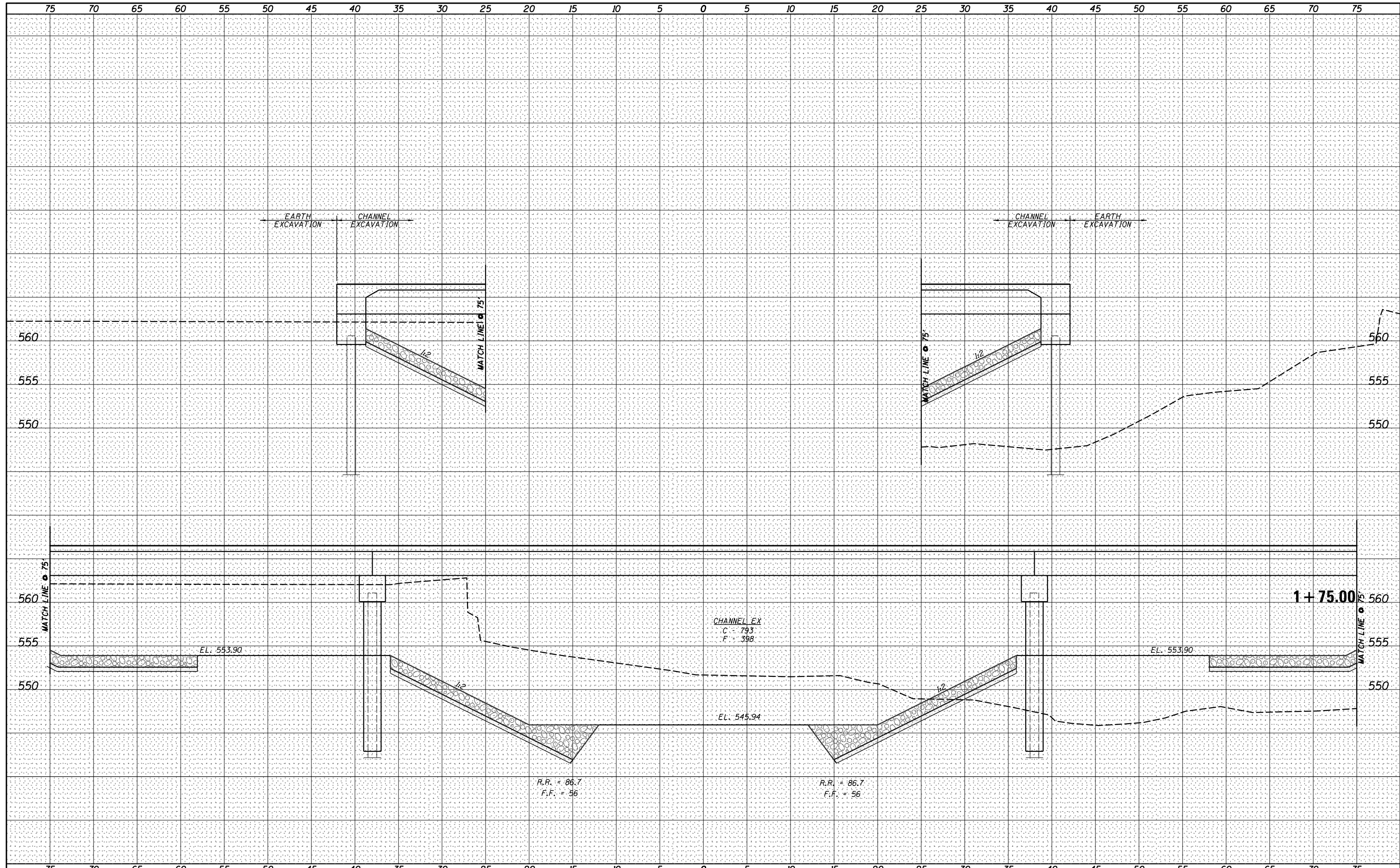
CHANNEL CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 3 OF 8 SHEETS STA. 1+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	79
				CONTRACT NO. 93721
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

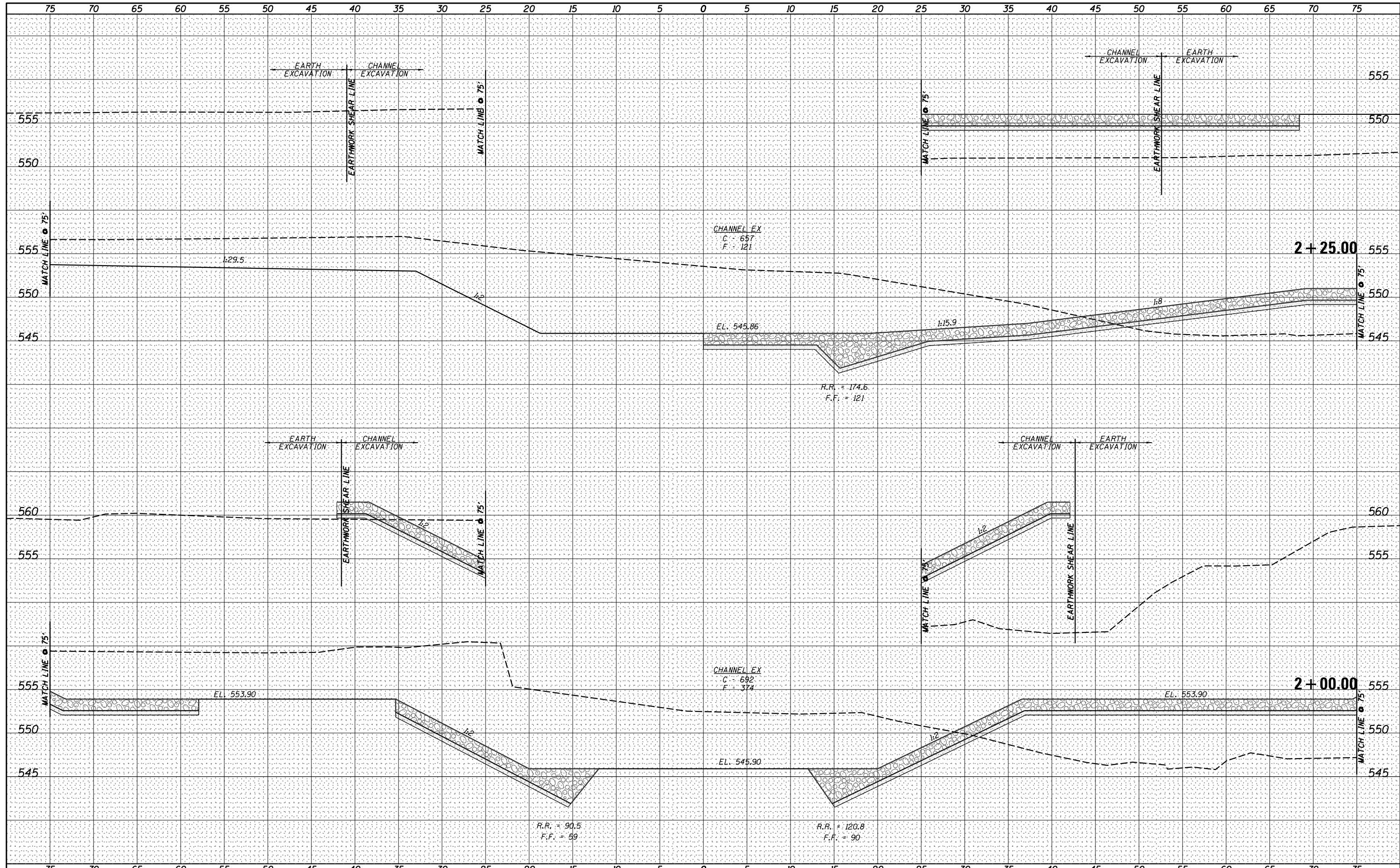
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS
SCALE: 1" = 5'
SHEET NO. 4 OF 8 SHEETS
STA. 1+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	80
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____



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USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

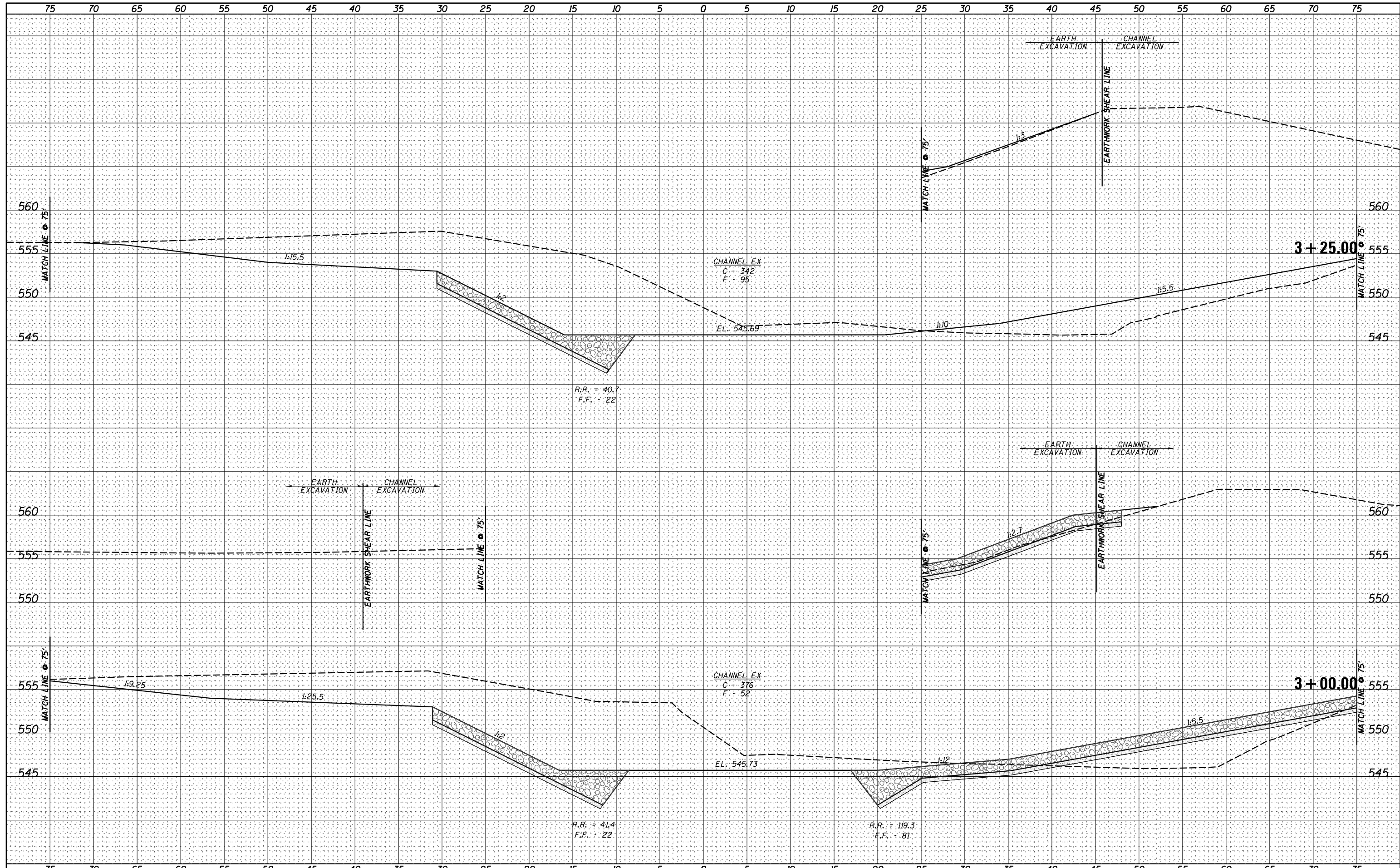
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CHANNEL CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 5 OF 8 SHEETS
 STA. 2+00.00 TO STA. 2+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	81
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = *USER*	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = *SCALE*	CHECKED - _____	REVISED - _____
PLOT DATE = *DATE*	DATE - _____	REVISED - _____

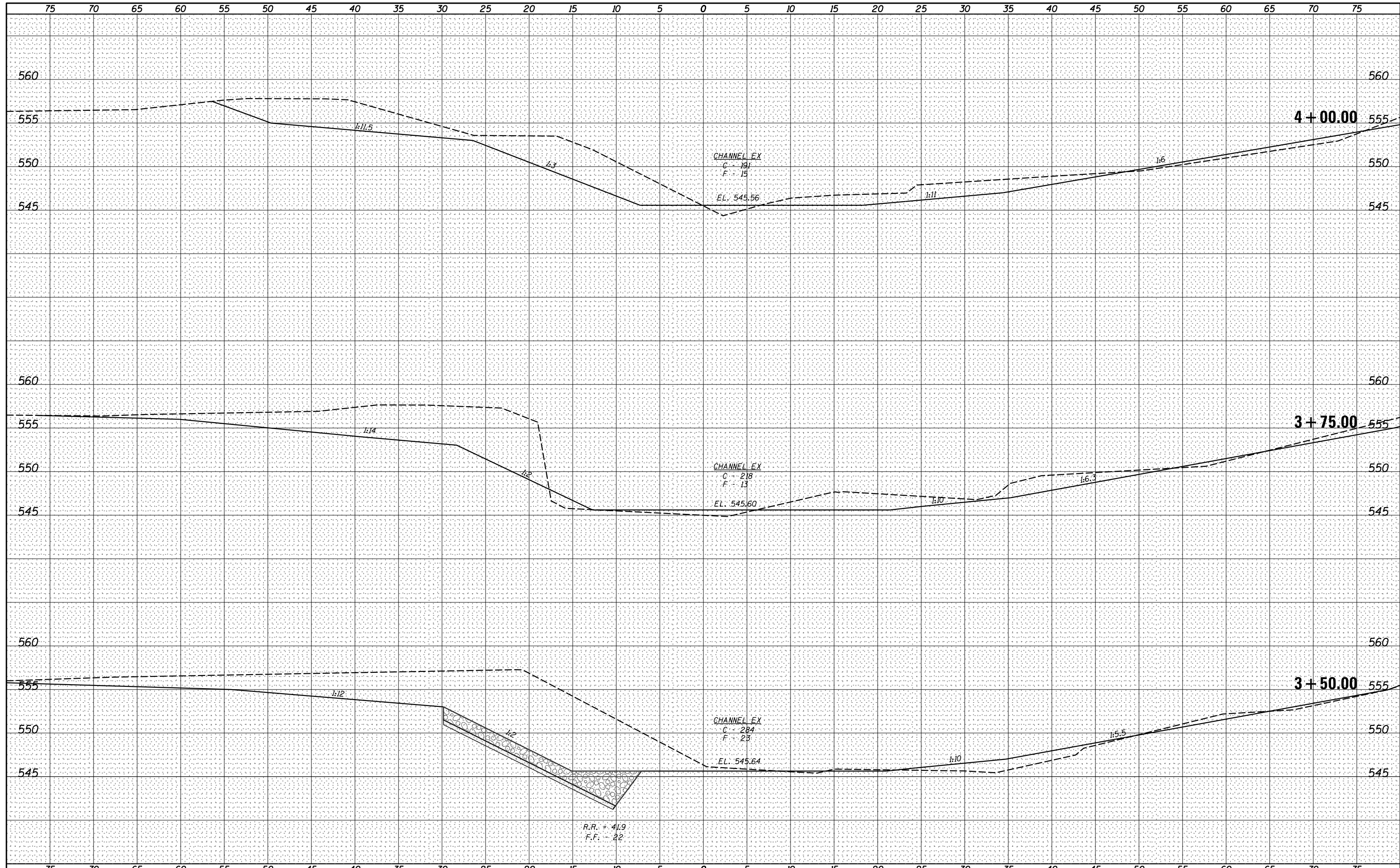
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 7 OF 8 SHEETS
 STA. 3+00.00 TO STA. 3+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	83
				CONTRACT NO. 93721
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = *USER*	DESIGNED - _____	REVISED - _____
PLOT SCALE = *SCALE*	DRAWN - _____	REVISED - _____
PLOT DATE = *DATE*	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 8 OF 8 SHEETS STA. 3+50.00 TO STA. 4+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
561	12-00038-06-BR	LOGAN	84	84
CONTRACT NO. 93721				
ILLINOIS FED. AID PROJECT				