

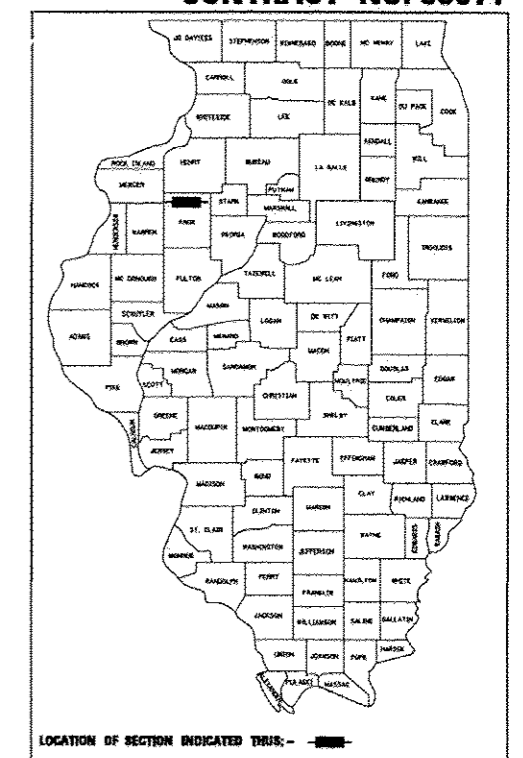
INDEX OF SHEETS 06-14-13 LETTING ITEM 246

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
LOCAL AGENCY IMPROVEMENT

F.A.S. ROUTE #393
COUNTY HIGHWAY #4
SECTION: 12-00001-01-RS
CATALOG: 034733-02
PROJECT: RS-0393 (105)
C-94-006-13
KNOX COUNTY

CONTRACT NO. 89614

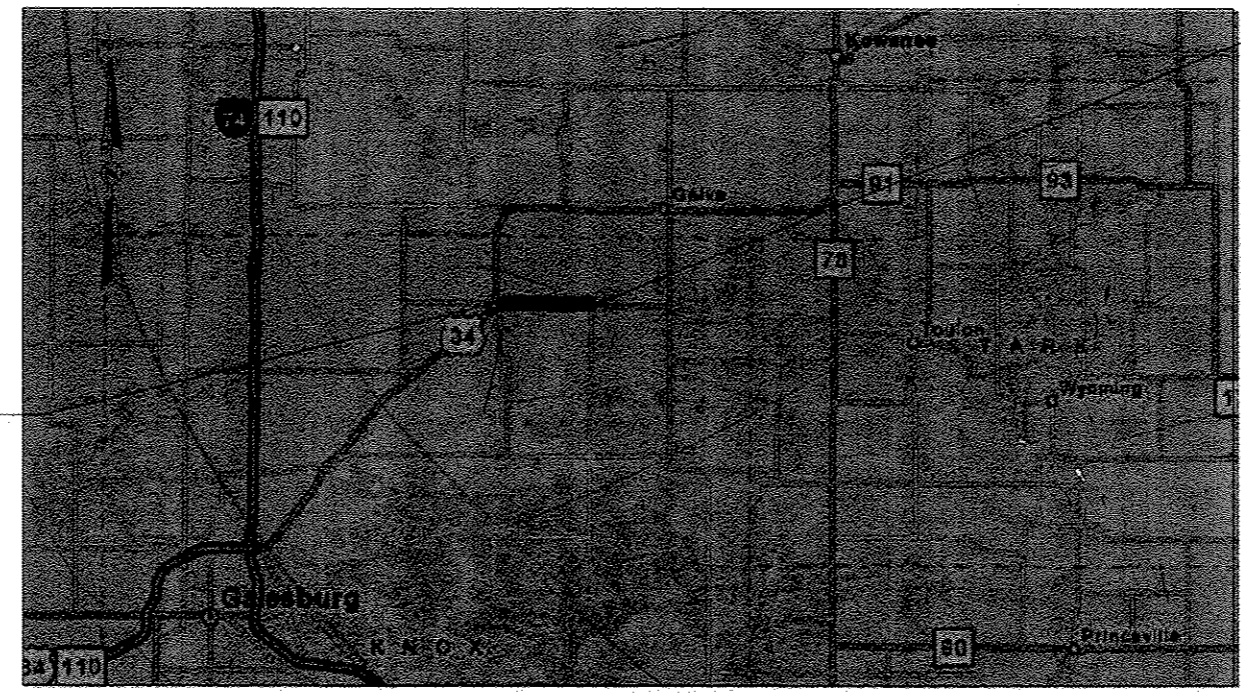


LOCATION OF SECTION INDICATED THIS: -

1 COVER SHEET
2 GENERAL NOTES, UTILITIES, LEGEND, APPLICATION RATES, BIT. MIX REQUIREMENTS
3-5 SUMMARY OF QUANTITIES
6-8 TYPICAL SECTIONS
9-18 SCHEDULE OF QUANTITIES
19-22 HORIZONTAL & VERTICAL CONTROL
23-29 ROADWAY ALIGNMENT
30-42 COUNTY HIGHWAY #4 - PLAN & PROFILES
43 T.R. 1600 E - INTERSECTION DETAIL
44 T.R. 1700 E - INTERSECTION DETAIL
45 T.R. 1800 E - INTERSECTION DETAIL
46-58 EROSION & SEDIMENT CONTROL PLAN
59-71 RIGHT OF WAY AND EASEMENT SHEETS
72-75 STRUCTURE PLANS (TRIPLE BOX CULVERT) STATION 16+98.25
76-80 STRUCTURE PLANS (DOUBLE BOX CULVERT) STATION 47+59.00
81 ENTRANCE & MAILBOX TURN OUT DETAILS
82-84 BUTT JOINT STANDARD
85 DETAIL OF EXCAVATION & BACKFILL FOR BOX CULVERTS
86-87 PRECAST CONCRETE BOX CULVERTS, END SECTIONS, DROP BOX END SECTIONS
88 TYPE 37 GRATE DETAIL
89-90 GUARDRAIL EROSION CONTROL TREATMENTS
91-93 SINGLE CELL PRECAST BOX CULVERT END SECTION WITH PIPE GRATES
94-104 COUNTY HIGHWAY 4 CROSS SECTIONS
105-168 TR 1600N CROSS SECTIONS
169-170 TR 1700N CROSS SECTIONS
171-174 TR 1800N CROSS SECTIONS

HIGHWAY STANDARDS

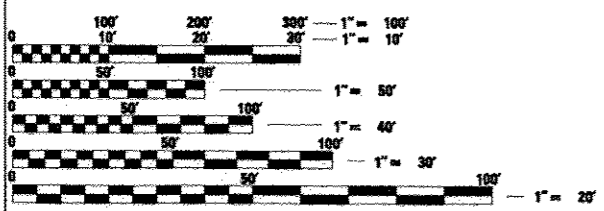
001001-02 AREAS OF REINFORCEMENT BARS
260001-07 TEMPORARY EROSION CONTROL SYSTEMS
420001-07 PAVEMENT JOINTS
420101-04 24' (7.2m) JOINTED PCC PAVEMENT
420701-02 PAVEMENT FABRIC
515001-03 NAME PLATE FOR BRIDGES
542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
602401-03 MANHOLE TYPE A
602701-02 MANHOLE STEPS
602601-02 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604036-02 GRATE TYPE 8
630001-10 STEEL PLATE BEAM GUARDRAIL
630301-06 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
701901-02 TRAFFIC CONTROL DEVICES
760001-03 TYPICAL PAVEMENT MARKINGS
BLR 21-6 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-7 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)
BLR 27-1 TRAFFIC BARRIER TERMINAL TYPE 5A
406101-D4 BUTT JOINTS
540000-D4 DETAIL OF EXCAVATION AND BACKFILL FOR BOX CULVERTS
540401-D4 PRECAST CONCRETE BOX CULVERTS (SPECIAL), END SECTION (SPECIAL) DROP BOX END SECTIONS (SPECIAL)
604301-D4 TYPE 37 GRATE
630101-D4 GUARDRAIL EROSION CONTROL TREATMENTS



LOCATION MAP

(NOT TO SCALE)

LENGTH OF IMPROVEMENT = 17,831 FEET = 3.38 MILE
FUNCTIONAL CLASSIFICATION: RURAL MAJOR COLLECTOR
DESIGN SPEED: 40 MPH, POSTED SPEED: 55 MPH
CURRENT ADT: 650, SU: 7%, MU: 5%
DESIGN YEAR: 2033, ADT: 870, DHV: 130, %TRUCKS: 6%



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

CATALOG NO. 034733-02

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



APPROVED March 22 2013
Duane J. Rattmann
LOCAL AGENCY OFFICIAL

PASSED 03/25 2013
[Signature]
DISTRICT FOUR ENGINEER
LOCAL ROAD DISTRICTS

Releasing For Bid Based on Limited Review
March 28 2013
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS,
REGION THREE ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Alicia M. Hermann
ALICIA M. HERMANN
03/22/13 11/2013
DATE EXPIRES

HERMANN & ASSOCIATES, LLC
CONSULTING ENGINEERS
5835 NORTH GALENA ROAD
PEORIA, ILLINOIS 61614
PHONE: (309) 687-6568
FAX: (309) 687-0571
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 194.004714

TRANSPORTATION • MUNICIPAL ENGINEERING • LAND DEVELOPMENT
ASBESTOS INSPECTION • CONSTRUCTION OBSERVATION

GENERAL NOTES

- ALL CONSTRUCTION SHALL COMPLY WITH THE CURRENT EDITIONS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," - HERINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS," "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
- ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U.S.G.S. MEAN SEA LEVEL DATUM - NAVD1988.
- THE CONTRACTOR SHALL VERIFY ALL BENCHMARKS AND HORIZONTAL CONTROL POINTS FOR ACCURACY PRIOR TO STARTING CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN --- ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE "STANDARD SPECIFICATIONS." CALL J.U.L.I.E. AT 1-800-892-0123 A MINIMUM OF 48 HOURS IN ADVANCE OF DIGGING OPERATIONS. THE CONTRACTOR SHALL COORDINATE ANY REQUIRED UTILITY ADJUSTMENTS WITH THE APPROPRIATE UTILITY COMPANY.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.
- THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH OF THE BOX/PIPE CULVERTS, STORM SEWERS, AND/OR PIPE DRAINS REQUIRED PRIOR TO ORDERING THESE ITEMS.
- IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS, THE CONNECTING OF EXISTING DRAIN TILES, PIPE CULVERTS, OR STORM SEWERS TO THE PROPOSED DRAINAGE SYSTEM STRUCTURES WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE PAY ITEMS PROVIDED.
- THE CONTRACTOR SHALL NOTIFY AND RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO REMOVING OR COVERING UP ANY SURVEY MONUMENTS OR PROPERTY MARKERS.
- THE CONTRACTOR SHALL CONFINE THE CONSTRUCTION WITHIN THE RIGHT OF WAY OR TEMPORARY CONSTRUCTION EASEMENT.
- EROSION CONTROL SHALL BE PROVIDED FOR ANY DISTURBED AREA PER THE "EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION" DATED JULY 1, 2010, AS PUBLISHED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
- CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS SO AS TO PREVENT DAMAGE FROM OCCURRING TO ALL EXISTING BUILDINGS, STRUCTURES, PUBLIC, AND PRIVATE PROPERTY AS A RESULT OF CONSTRUCTION.
- SIGNS, MAILBOXES, FENCE, FENCE RAILS, POSTS, LANDSCAPING ITEMS NOT IDENTIFIED ON THE BID SCHEDULE WHICH ARE DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH LIKE MATERIALS AND CONSTRUCTION. THIS WORK SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING APPROPRIATE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE STANDARD SPECIFICATIONS, MUTCD, AND ANY REQUIREMENTS DETAILED IN THE CONTRACT DOCUMENTS. TRAFFIC CONTROL SHALL BE PAID FOR AS TRAFFIC CONTROL PROTECTION (SPECIAL).
- ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION IN ACCORDANCE WITH 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.
- ALL EXISTING FIELD TILE SHALL BE REPLACED BACK TO ROW LIMITS & SHALL BE PAID FOR AS STORM SEWER (SPECIAL). SEE SPECIAL PROVISIONS FOR FURTHER DETAILS.
- THE CONTRACTOR SHALL COMPLY WITH THE LEGAL STREET LOADING LIMITS ESTABLISHED BY THE LOCAL AGENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY LUGS OR CLEATS ON TREADS OR WHEELS, EXCESSIVE WEIGHTS, AND LOADS, ETC.
- THE NO PASSING ZONES SHOWN ON THE PLAN ARE FOR INFORMATION & ESTIMATION OF QUANTITIES. PRIOR TO PLACEMENT OF CENTERLINE STRIPING, THE KNOX COUNTY HIGHWAY DEPARTMENT WILL VERIFY IN THE FIELD THE NO PASSING ZONES.
- REMOVAL OF EXISTING PAVEMENT SHALL INVOLVE ROTO-TILLING THE EXISTING PAVEMENT 6 INCHES TO 8 INCHES DEEP AND SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- ALL SOILS DATA COLLECTED AND PROCESSED FOR THE SOILS REPORT MADE IN CONJUNCTION WITH THE DESIGN OF THIS IMPROVEMENT IS ON FILE AT THE KNOX COUNTY HIGHWAY DEPARTMENT WHERE IT IS AVAILABLE FOR INSPECTION BY CONTRACTORS OR PROSPECTIVE BIDDERS. BY SUBMITTING A BID, THE CONTRACTOR ACKNOWLEDGES THAT THE SOILS REPORT HAS BEEN MADE AVAILABLE AND IS AWARE OF THE REPORT CONTENTS AND APPENDICES.

UTILITIES

AMEREN CILCO (GAS & ELECTRIC)
1824 KNOX HIGHWAY 9
GALESBURG, IL 61401
TAYLOR WINKELMANN
1-309-345-5174
1-309-299-2974

MID CENTURY (FIBER OPTIC)
AARON BUCK
1-309-778-8611

VILLAGE OF ALTONA (WATER & SANITARY)
JASON CHASTEEN
1-309-337-6956

MEDIACOM (CABLE)
TERRY PETERSON
1-309-944-0139 EXT. 2301

FRONTIER COMMUNICATIONS (TELEPHONE)
111 S. MAIN STREET
KEWANEE, IL 61443
TERRY SPURGEON
1-309-853-6293

CORN BELT (ELEC LINES)
IAN CARDOSI
1-815-878-5305

PLAN LEGEND

PROPOSED PORTLAND CEMENT CONCRETE PAVEMENT, 7" (JOINTED) & PROPOSED AGGREGATE BASE COURSE, TYPE A 8" OR PROPOSED AGGREGATE BASE COURSE, TYPE A 12" (SEE TYPICAL SECTIONS) PROPOSED SUBGRADE TREATMENT (SEE TYPICALS & CROSS SECTIONS)		CULTIVATION LINE	
PROPOSED AGGREGATE BASE COURSE, TYPE A (15") & A-3 SEALCOAT TO BE DONE BY OTHERS		MID CENTURY FIBER OPTIC	
PROPOSED H.M.A. BINDER COURSE, IL 19.0, N50 (4.5"), PROPOSED H.M.A. SURFACE COURSE, MIX "C", N50 (2"), PROPOSED AGGREGATE BASE COURSE, TYPE A (12")		OVERHEAD ELECTRIC	
PROPOSED H.M.A. BINDER COURSE, IL 19.0, N50 (3.5"), PROPOSED H.M.A. SURFACE COURSE, MIX "C", N50 (2"), PROPOSED AGGREGATE BASE COURSE, TYPE A (9.5")		CONSTRUCTION LIMITS	
PROPOSED INCIDENTAL HOT-MIX ASPHALT SURFACING (5.5"), PROPOSED AGGREGATE BASE COURSE, TYPE A (9.5" OR 13.5")		EXISTING R.O.W.	
PROPOSED AGG. SURFACE COURSE TYPE B, 12"		PROPOSED R.O.W.	
PROPOSED AGG. SURFACE COURSE, TYPE B, 6"		PROPOSED DITCH FLOWLINE	
PROPOSED STONE RIPRAP, CLASS A3 (UNLESS OTHERWISE NOTED)		PROPOSED PERIMETER EROSION BARRIER	
PROPOSED HEAVY DUTY EROSION CONTROL BLANKET		PROPERTY LINE	
PROPOSED H.M.A. SURFACE REMOVAL - BUTT JOINT PROPOSED H.M.A. SURFACE COURSE, MIX "C", N50 (2")		EXISTING SIGN	
PROPOSED H.M.A. SURFACE COURSE, MIX "C", N50 (2" to 4.8")		EXISTING MAILBOX	
		EXISTING UTILITY POLE	
		EXISTING CULVERT	
		EXISTING TREE	
		PROPOSED AGG. DITCH CHECK	
		PROPOSED TEMP. DITCH CHECK	
		PROPOSED INLET/PIPE PROTECTION	
		EXISTING FIBER OPTIC PEDESTAL	
		MEDIACOM CABLE	

COMMITMENT LIST	
LOCATION	DESCRIPTION
STATION	
STA. 2+45 RT TO 3+53 RT	EXISTING FENCE TO REMAIN
STA 23+65 LT TO 23+87 LT	RIPRAP BACKSLOPE TO R/W LINE
STA 23+83 LT	ADJUST EXISTING FIELD TILE TO MATCH BACKSLOPE
STA 39+79 36' LT	TREE TO REMAIN
STA 39+99 36' LT	TREE TO REMAIN
STA 57+01 36' LT	TREE TO REMAIN
STA 60+05 LT TO STA 66+99 LT	EXISTING FENCE TO REMAIN
STA 83+69 35' LT	TREE TO REMAIN
STA 84+22 36' LT	SHRUB TO REMAIN
STA 97+43 34' LT	LANDSCAPING TO REMAIN
STA 98+06 40' LT	TREE TO REMAIN
STA 98+35 43' LT	TREE TO REMAIN
STA 100+27 51' RT	TREE TO REMAIN
STA 100+27 65' RT	TREE TO REMAIN
STA 137+59 48' RT	TREE TO REMAIN
STA 139+53 LT TO STA 140+93 LT	7 - PINE TREES TO REMAIN
STA 141+18 29' LT	SHRUB TO REMAIN
STA 141+23 35' LT	SHRUB TO REMAIN
STA 176+68	FIELD TILE INSTALLATION
STA 180+30 LT	EXISTING GRASS ENTRANCE TO REMAIN

CONVERSIONS & APPLICATION RATES

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES

MATERIAL	APPLICATION RATE
AGGREGATE MATERIALS	2.05 TONS/CU YD 114 LB/SQ YD/INCH
HOT MIX ASPHALT SURFACE & BINDER COURSE	112 LB/SQ YD/INCH
POLYMERIZED BIT. MATERIALS (PRIME COAT)	TRUCK APP RATE RESIDUAL RATE
MILLED (HMA or PCC)	0.10 GAL/SQ YD 0.05 GAL/SQ YD
ON EXISTING PAVEMENT	0.05 GAL/SQ YD 0.025 GAL/SQ YD
FOG COAT (BETWEEN LIFTS)	0.05 GAL/SQ YD 0.025 GAL/SQ YD
BITUMINOUS MATERIALS (PRIME COAT)	
ON GRANULAR BASE	0.50 GAL/SQ YD

BITUMINOUS CONCRETE MIXTURE REQUIREMENTS

THE FOLLOWING MIX REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT

LOCATION	MAILBOX TURNOUTS & ENTRANCE APRONS	SIDERoadS, BUTT JOINT, & BRIDGE SURFACE	SIDERoadS
	MIXTURE USE	INCIDENTAL HOT MIX ASPHALT SURFACING	SURFACE COURSE BINDER COURSE
AC/PG	PG 64-22	PG 64-22	PG 64-22
MAX % RAP ALLOWABLE*	15%	10%	10%
DESIGN AIR VOIDS	4.0% @ NDES = N50	4.0% @ NDES = N50	4.0% @ NDES = N50
MIXTURE COMPOSITION	IL 9.5 OR IL 12.5	IL 9.5 OR IL 12.5	IL-19.0
FRICITION AGGREGATE	MIX C	MIX C	MIX C

*IF > 15% RAP IS USED, THE CONTRACTOR MAY BE REQUIRED TO USE A SOFTER GRADE OF ASPHALT AS DETERMINED BY THE MATERIALS ENGINEER

SUMMARY OF QUANTITIES			
PAY ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	184
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	140
20200100	EARTH EXCAVATION	CU YD	35711
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	3131
20400800	FURNISHED EXCAVATION	CU YD	4640
20700220	POROUS GRANULAR EMBANKMENT	CU YD	1882
20800150	TRENCH BACKFILL	CU YD	600
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	55053
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	5200
25000100	SEEDING, CLASS 1	ACRE	0.75
25000200	SEEDING, CLASS 2	ACRE	23.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	2179
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	2179
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	2179
25100115	MULCH, METHOD 2	ACRE	96.9
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	4072
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	7266
28000305	TEMPORARY DITCH CHECKS	FOOT	8078
28000400	PERIMETER EROSION BARRIER	FOOT	21950
28000500	INLET AND PIPE PROTECTION	EACH	46
28100105	STONE RIPRAP, CLASS A3	SQ YD	2064
28100107	STONE RIPRAP, CLASS A4	SQ YD	884
28200200	FILTER FABRIC	SQ YD	2949
31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	2756
35100700	AGGREGATE BASE COURSE, TYPE A 8"	SQ YD	44067
35101100	AGGREGATE BASE COURSE, TYPE A 12"	SQ YD	5581
35101350	AGGREGATE BASE COURSE, TYPE A 15"	SQ YD	733
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	8236
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2203
40600115	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	GALLON	373
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	91
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	620
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	362
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	456
42000201	PORTLAND CEMENT CONCRETE PAVEMENT 7" (JOINTED)	SQ YD	42668

FILE NAME =
#FILE#

USER NAME = #USER#
PLOT SCALE = #SCALE#
PLOT DATE = #DATE#

DESIGNED -
DRAWN -
CHECKED -
DATE - MARCH 2013

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 3 OF 174 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	3
COUNTY HIGHWAY #4		CONTRACT NO. 89614		
FED. ROAD DIST. NO. 4 [ILLINOIS] FED. AID PROJECT RS-0393 (105)				

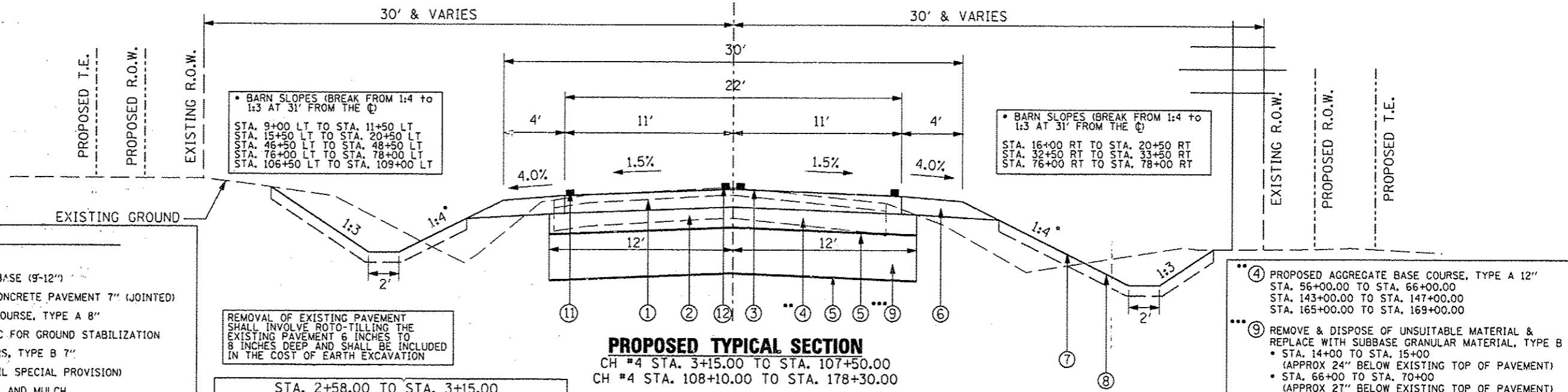
SUMMARY OF QUANTITIES			
PAY ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
42001300	PROTECTIVE COAT	SQ YD	42668
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	4424
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	260
44000600	SIDEWALK REMOVAL	SQ FT	3948
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	892
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1
50800105	REINFORCEMENT BARS	POUND	97910
51500100	NAME PLATES	EACH	2
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2
54001003	BOX CULVERT END SECTIONS, CULVERT NO. 3	EACH	2
54003000	CONCRETE BOX CULVERTS	CU YD	580.7
54010403	PRECAST CONCRETE BOX CULVERTS 4' X 3'	FOOT	98
54010404	PRECAST CONCRETE BOX CULVERTS 4' X 4'	FOOT	88
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	17
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	11
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	4
54213687	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"	EACH	2
54260311	TRAVERSABLE PIPE GRATE	FOOT	62
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	6
60500080	REMOVING INLETS	EACH	4
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	5
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	5
61133300	FIELD TILE JUNCTION VAULTS, 4' DIA.	EACH	5
61133400	FIELD TILE JUNCTION VAULTS, 5' DIA.	EACH	5
61139900	STORM SEWERS (SPECIAL), 6"	FOOT	300
61140000	STORM SEWERS (SPECIAL), 8"	FOOT	300
61140100	STORM SEWERS (SPECIAL), 10"	FOOT	300
61140200	STORM SEWERS (SPECIAL), 12"	FOOT	300
61140400	STORM SEWERS (SPECIAL), 15"	FOOT	300
61140600	STORM SEWERS (SPECIAL), 18"	FOOT	300
61140900	STORM SEWERS (SPECIAL), 24"	FOOT	300

SUMMARY OF QUANTITIES			
PAY ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
* 6300001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	363
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	155
67100100	MOBILIZATION	L SUM	1
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	61856
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	41
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	350
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	269
542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	40
542A1060	PIPE CULVERTS, CLASS A, TYPE 2 15"	FOOT	60
542A1063	PIPE CULVERTS, CLASS A, TYPE 2 18"	FOOT	128
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	80
542A1075	PIPE CULVERTS, CLASS A, TYPE 2 30"	FOOT	72
542A1087	PIPE CULVERTS, CLASS A, TYPE 2 42"	FOOT	104
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	932
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	123
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	155
48101550	AGGREGATE SHOULDERS, TYPE B 7"	SQ YD	14061
35100805	AGGREGATE BASE COURSE, TYPE A 9.5"	SQ YD	1338
35101205	AGGREGATE BASE COURSE, TYPE A 13.5"	SQ YD	143
X4020500	AGGREGATE SURFACE COURSE, TYPE B 6"	SQ YD	4663
X4020800	AGGREGATE SURFACE COURSE, TYPE B 12"	SQ YD	494
X6024502	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	EACH	2
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
X7240300	SIGN REMOVAL	EACH	39
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	179
Z0004560	BRIDGE WEARING SURFACE REMOVAL	SQ YD	160
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	46
Z0022800	FENCE REMOVAL	FOOT	7029
Z0023900	FILLING EXISTING WELLS	EACH	1
Z0076600	TRAIN EES	HOUR	500
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1
Z0076604	TRAIN EES TRAIN EAG PROGRAM GRADUATE	HOUR	500
Z0054400	ROCK FILL	CU YD	132

Δ 0042
* SPECIALTY ITEMS

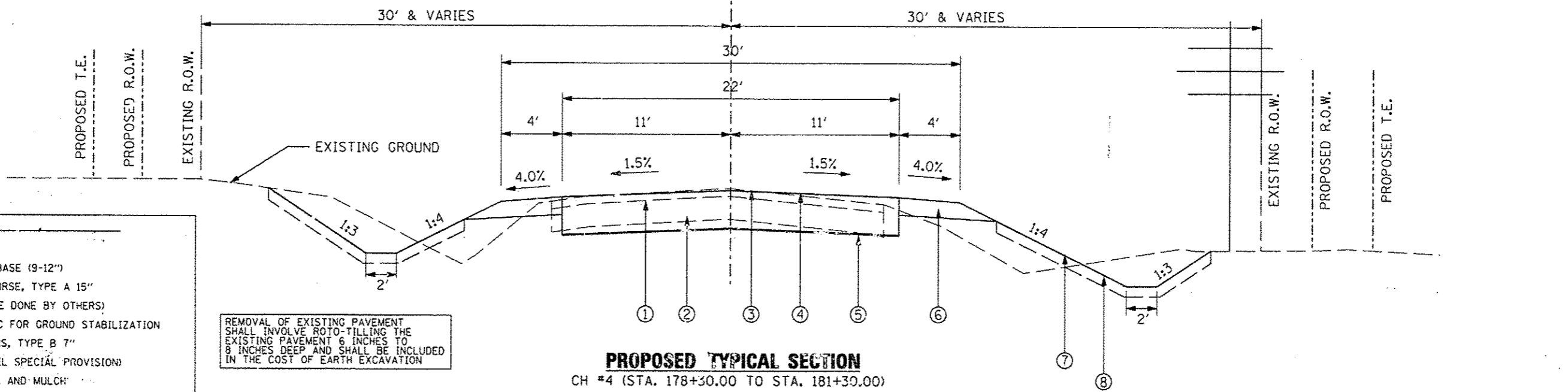
FILE NAME * #FILE#	USER NAME * #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE * #SCALE#	DRAWN -	REVISED -			393	12-00001-01-RS	KNOX	174	5	
	PLOT DATE * #DATE#	CHECKED -	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614		FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (06)	
		DATE - MARCH 2013	REVISED -			SCALE:	SHEET NO. 5 OF 174 SHEETS	STA.	TO STA.		

PROPOSED
COUNTY
HIGHWAY #4



PROPOSED TYPICAL SECTION
CH #4 STA. 3+15.00 TO STA. 107+50.00
CH #4 STA. 108+10.00 TO STA. 178+30.00

PROPOSED
COUNTY
HIGHWAY #4



PROPOSED TYPICAL SECTION
CH #4 (STA. 178+30.00 TO STA. 181+30.00)

- LEGEND**
- ① EXISTING OIL & CHIPS (3-6")
 - ② EXISTING CRUSHED LIMESTONE BASE (9-12")
 - ③ PROPOSED PORTLAND CEMENT CONCRETE PAVEMENT 7" (JOINED)
 - ④ **PROPOSED AGGREGATE BASE COURSE, TYPE A 8"
 - ⑤ PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
 - ⑥ PROPOSED AGGREGATE SHOULDERS, TYPE B 7"
 - ⑦ PROPOSED TOPSOIL (SEE TOPSOIL SPECIAL PROVISION)
 - ⑧ PROPOSED SEEDING, FERTILIZER, AND MULCH
 - ⑨ REMOVE & DISPOSE OF UNSUITABLE MATERIAL & REPLACE WITH SUBBASE GRANULAR MATERIAL, TYPE B (SEE NOTE)
 - ⑩ PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL
 - ⑪ PROPOSED PAINT PAVEMENT MARKING - LINE 4" (WHITE)
 - ⑫ PROPOSED PAINT PAVEMENT MARKING - LINE 4" (YELLOW)

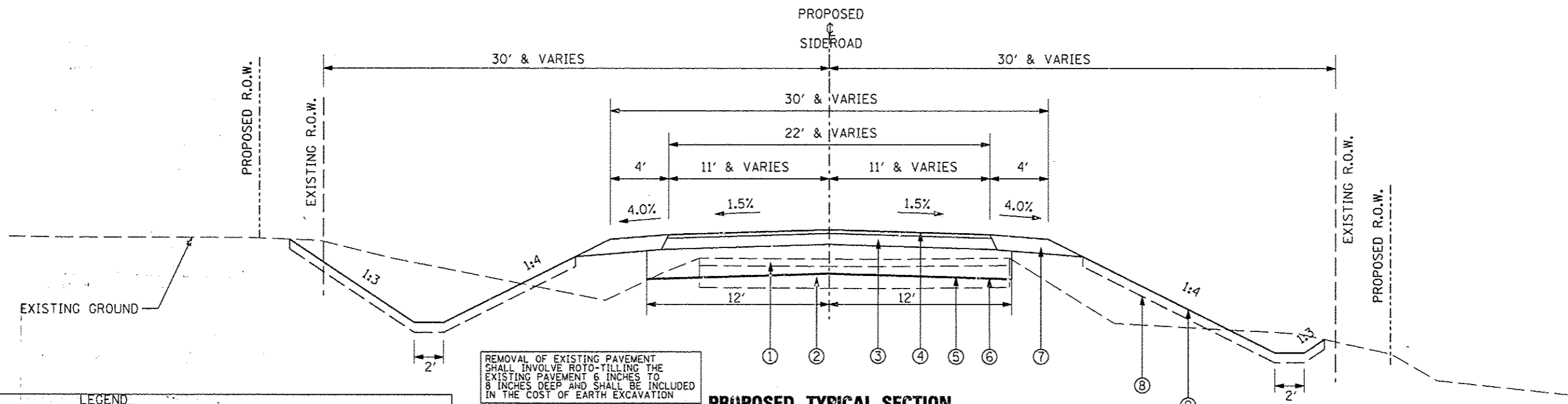
- LEGEND**
- ① EXISTING OIL & CHIPS (3-6")
 - ② EXISTING CRUSHED LIMESTONE BASE (9-12")
 - ③ PROPOSED AGGREGATE BASE COURSE, TYPE A 15"
 - ④ PROPOSED A-3 SEALCOAT (TO BE DONE BY OTHERS)
 - ⑤ PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
 - ⑥ PROPOSED AGGREGATE SHOULDERS, TYPE B 7"
 - ⑦ PROPOSED TOPSOIL (SEE TOPSOIL SPECIAL PROVISION)
 - ⑧ PROPOSED SEEDING, FERTILIZER, AND MULCH

FILE NAME	USER NAME * USER	DESIGNED -	REVISED -
#FILE#		DRAWN -	REVISED -
	PLOT SCALE * SCALE	CHECKED -	REVISED -
	PLOT DATE * DATE	DATE - MARCH 2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SCALE: NTS SHEET NO. 6 OF 174 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	6
COUNTY HIGHWAY #4		CONTRACT NO. 89614		
FED. ROAD DIST. NO. 4 [ILLINOIS] FED. AID PROJECT RS-0393 (105)				



REMOVAL OF EXISTING PAVEMENT SHALL INVOLVE ROTO-TILLING THE EXISTING PAVEMENT 6 INCHES TO 8 INCHES DEEP AND SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION

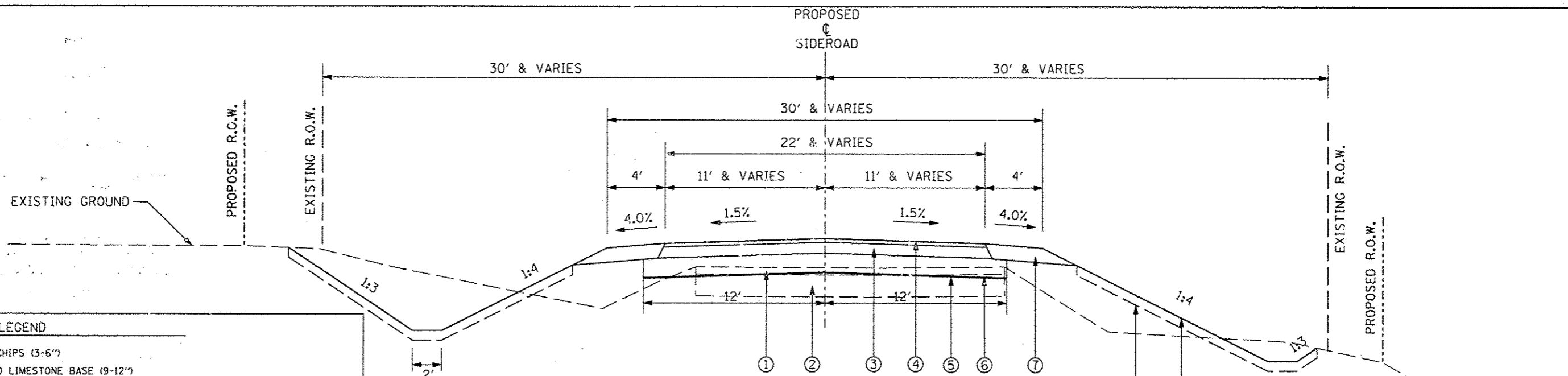
PROPOSED TYPICAL SECTION

C.H. #15 (STA. 1802+40.00 TO STA. 1804+89.00)

LEGEND

- ① EXISTING OIL & CHIPS (3-6")
- ② EXISTING CRUSHED LIMESTONE BASE (9-12")
- ③ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (4.5 INCHES)
- ④ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (2 INCHES)
- ⑤ PROPOSED AGGREGATE BASE COURSE, TYPE A 12"
- ⑥ PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑦ PROPOSED AGGREGATE SHOULDERS, TYPE B 6"
- ⑧ PROPOSED TOPSOIL (SEE TOPSOIL SPECIAL PROVISION)
- ⑨ PROPOSED SEEDING, FERTILIZER, AND MULCH

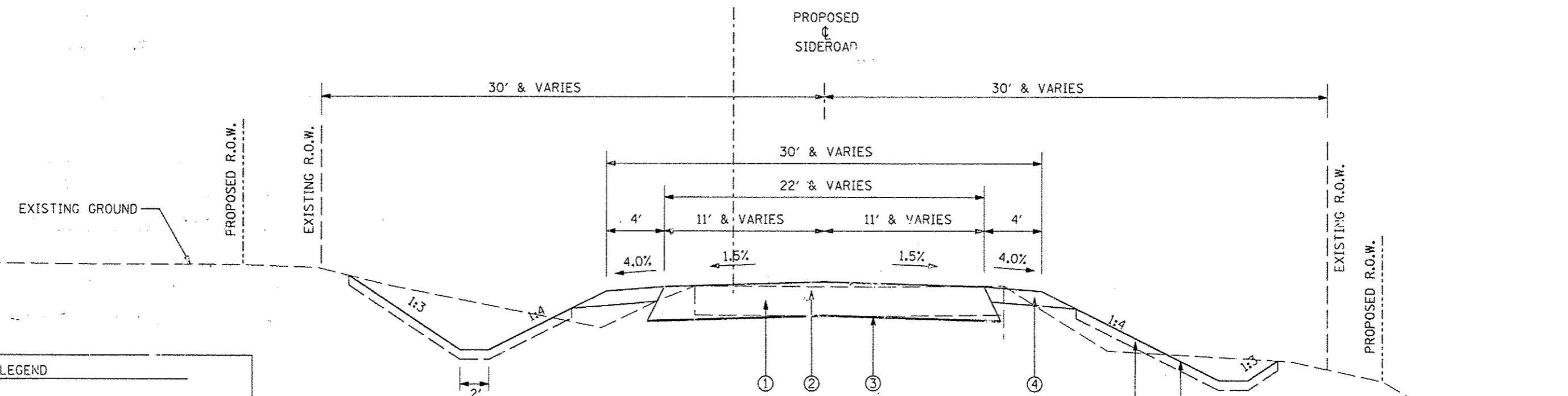
FILE NAME *	USER NAME * #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS	F.A. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -			393	12-00001-01-RS	KNOX	174	7
		CHECKED -	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614		
		DATE - MARCH 2013	REVISED -			FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (05)				
				SCALE: NTS	SHEET NO. 7 OF 174 SHEETS	STA.	TO STA.			



- LEGEND**
- ① EXISTING OIL & CHIPS (3-6")
 - ② EXISTING CRUSHED LIMESTONE BASE (9-12")
 - ③ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (3.5 INCHES)
 - ④ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (2 INCHES)
 - ⑤ PROPOSED AGGREGATE BASE COURSE, TYPE A 8"
 - ⑥ PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
 - ⑦ PROPOSED AGGREGATE SHOULDERS, TYPE B 6"
 - ⑧ TOPSOIL (SEE TOPSOIL SPECIAL PROVISION)
 - ⑨ SEEDING, FERTILIZER, AND MULCH

REMOVAL OF EXISTING PAVEMENT SHALL INVOLVE ROTO-TILLING THE EXISTING PAVEMENT 6 INCHES TO 8 INCHES DEEP AND SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION

PROPOSED TYPICAL SECTION
 T.R. 1600 E (STA. 1605+11.00 TO STA. 1607+00.00)
 T.R. 1600 E (STA. 1602+30.00 TO STA. 1604+89.00)
 T.R. 1700 E (STA. 1705+10.90 TO STA. 1705+78.12)
 T.R. 1700 E (STA. 1704+21.74 TO STA. 1704+88.90)
 T.R. 1800 E (STA. 1805+11.00 TO STA. 1805+79.95)



- LEGEND**
- ① EXISTING GRAVEL
 - ② PROPOSED AGGREGATE SURFACE COURSE, TYPE B 12"
 - ③ PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
 - ④ PROPOSED AGGREGATE SHOULDERS, TYPE B 6"
 - ⑤ PROPOSED TOPSOIL (SEE TOPSOIL SPECIAL PROVISION)
 - ⑥ PROPOSED SEEDING, FERTILIZER, AND MULCH

REMOVAL OF EXISTING PAVEMENT SHALL INVOLVE ROTO-TILLING THE EXISTING PAVEMENT 6 INCHES TO 8 INCHES DEEP AND SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION

PROPOSED TYPICAL SECTION
 T.R. 1700 E (STA. 1705+78.12 TO STA. 1706+50.00)
 T.R. 1700 E (STA. 1703+45.00 TO STA. 1704+21.74)
 T.R. 1800 E (STA. 1805+79.95 TO STA. 1806+29.95)

TREE REMOVAL (6 TO 15 UNITS DIAMETER)				20100110
LOCATION STATION	OFFSET	LT/RT	UNITS DIAMETER	
STA. 11+40.06	21.26	LT	6.0	
STA. 11+52.76	21.57	LT	6.0	
STA. 11+63.43	20.99	LT	8.0	
STA. 12+70.62	19.62	LT	6.0	
STA. 12+87.07	20.85	LT	6.0	
STA. 13+15.72	18.36	LT	8.0	
STA. 13+73.79	26.95	LT	6.0	
STA. 13+81.87	27.08	LT	6.0	
STA. 13+90.30	27.24	LT	8.0	
STA. 13+97.84	28.50	LT	10.0	
STA. 15+02.26	25.04	LT	6.0	
STA. 15+07.61	24.01	LT	6.0	
STA. 15+13.01	23.81	LT	6.0	
STA. 15+18.20	25.79	LT	6.0	
STA. 15+91.51	26.28	LT	12.0	
STA. 16+40.55	30.74	LT	10.0	
STA. 16+46.33	30.93	LT	12.0	
STA. 16+82.73	34.51	RT	6.0	
STA. 17+33.72	31.95	RT	14.0	
STA. 17+43.31	34.31	RT	6.0	
STA. 18+74.50	30.27	RT	6.0	
STA. 100+49.94	42.87	RT	6.0	
STA. 100+59.92	44.04	RT	6.0	
STA. 115+59.72	22.21	LT	12.0	
TOTAL				184.0

TREE REMOVAL (OVER 15 UNITS DIAMETER)				20100210
LOCATION STATION	OFFSET	LT/RT	UNITS DIAMETER	
STA. 14+26.22	17.45	LT	26.0	
STA. 14+43.73	27.86	LT	25.0	
STA. 14+54.34	32.12	LT	29.0	
STA. 15+23.61	25.59	LT	30.0	
STA. 33+71.47	45.06	LT	30.0	
TOTAL				140.0

EARTHWORK SCHEDULE						
DESCRIPTION	LOCATION	LENGTH	20200100		20400800	
			EARTH EX. VOLUME (CUT)	EARTH EX. ADJUSTED FOR SHRINKAGE (SHRINKAGE FACTOR = 25%)	EMBANKMENT VOLUME (FILL)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	STATION TO STATION	FOOT	CU. YD.	CU. YD.	CU. YD.	FURNISH EX. CU. YD.
COUNTY HIGHWAY #4						
	STA. 2+58.00 TO STA. 15+00.00	1242.00	1674	1256	1479	-223
	STA. 15+00.00 TO STA. 30+00.00	1500.00	2225	1669	9262	-7593
	STA. 30+00.00 TO STA. 45+00.00	1500.00	1548	1161	2189	-1028
	STA. 45+00.00 TO STA. 60+00.00	1500.00	3167	2376	2304	71
	STA. 60+00.00 TO STA. 75+00.00	1500.00	2048	1536	1706	-169
	STA. 75+00.00 TO STA. 90+00.00	1500.00	5203	3902	8376	-4474
	STA. 90+00.00 TO STA. 107+55.00	1755.00	4518	3389	792	2597
	STA. 108+05.00 TO STA. 120+00.00	1195.00	3112	2334	2099	235
	STA. 120+00.00 TO STA. 135+00.00	1500.00	3005	2254	504	1750
	STA. 135+00.00 TO STA. 150+00.00	1500.00	2291	1718	1026	692
	STA. 150+00.00 TO STA. 165+00.00	1500.00	3290	2467	844	1623
	STA. 165+00.00 TO STA. 181+50.00	1650.00	2004	1503	1478	25
SUBTOTAL			34087	25565	32058	-6493
TR 1600 E						
	SOUTH LEG STA. 1602+30.00 TO STA. 1604+75.00	245.00	266	199	243	-44
	NORTH LEG STA. 1605+25.00 TO STA. 1607+00.00	175.00	402	302	74	227
SUBTOTAL			668	501	317	184
TR 1700 E						
	SOUTH LEG STA. 1703+00.00 TO STA. 1704+50.00	150.00	196	147	41	106
	NORTH LEG STA. 1705+50.00 TO STA. 1706+50.00	100.00	260	195	23	172
SUBTOTAL			455	342	64	278
TR 1800 E						
	SOUTH LEG STA. 1802+40.00 TO STA. 1804+75.00	235.00	524	393	112	281
	NORTH LEG STA. 1805+25.00 TO STA. 1807+00.00	175.00	173	130	17	113
SUBTOTAL			697	523	129	394
* CONTINGENT QUANTITY FOR FURNISHED EXCAVATION AT LOCATIONS WHERE UNSUITABLE MATERIAL IS REMOVED AS DIRECTED BY THE ENGINEER.						1000
TOTAL			35711	26783	32527	-4637

GEOTECHNICAL FABRIC FOR GROUND STABILIZATION		21001000
LOCATION	AREA	
UNDER SUBBASE GRANULAR MATERIAL, TYPE B	4000.00	
UNDER ROCK FILL	178.00	
UNDER AGGREGATE BASE COURSE, TYPE A	50380.75	
UNDER AGGREGATE SURFACE COURSE, TYPE B	494.36	
TOTAL		55053.11

EXPLORATION TRENCH 52" DEPTH		21301052
LOCATION	LENGTH	
STA. 76+68 FIELD TILE INSTALLATION	150	
*CONTINGENT QUANTITY FOR FIELD INVESTIGATION DURING CONSTRUCTION	5050.0	
TOTAL		5200.0

* CONTINGENT QUANTITIES ARE APPROXIMATE. ACTUAL QUANTITY WILL BE DETERMINED BY RESIDENT ENGINEER IN THE FIELD AT TIME OF WORK. FINAL QUANTITY MAY VARY SIGNIFICANTLY.

TRENCH BACKFILL		20800150
LOCATION	VOLUME	
STA. 76+68 FIELD TILE INSTALLATION	48	
* CONTINGENT QUANTITY FOR STORM SEWER CONSTRUCTION	552	
TOTAL		600

* CONTINGENT QUANTITIES ARE APPROXIMATE. ACTUAL QUANTITY WILL BE DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD AT TIME OF WORK. FINAL QUANTITY MAY VARY SIGNIFICANTLY.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL						20201200
LOCATION	LENGTH	WIDTH	DEPTH	VOLUME	VOLUME	
STATION TO STATION	FOOT	FOOT	FOOT	CU. FT.	CU. YD.	
UNDER THE ROADWAY						
STA. 14+00.00 TO STA. 15+00.00	100.00	24.00	2.00	4800.00	177.78	
STA. 66+00.00 TO STA. 70+00.00	400.00	24.00	2.25	21600.00	800.00	
CONTINGENT QTY UNDER THE ROADWAY	1000.00	24.00	2.00	48000.00	1777.78	
UNDER THE BOX CULVERTS						
BOX CULVERT STA. 16+98.25	97.00	40.33	1.00	3912.01	144.89	
BOX CULVERT STA. 47+59.00	68.00	22.63	1.00	1538.84	56.99	
BOX CULVERT STA. 76+68.00	108.00	9.00	1.00	972.00	36.00	
BOX CULVERT STA. 145+12.89	78.00	9.00	3.00	2106.00	78.00	
BOX CULVERT STA. 151+70.00	79.00	9.00	1.00	711.00	26.33	
*CONTINGENT QTY UNDER PIPE CULVERTS	300.00	3.00	1.00	900.00	33.33	
TOTAL						3131.11

* CONTINGENT QUANTITIES ARE APPROXIMATE. ACTUAL QUANTITY WILL BE DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD AT TIME OF WORK. FINAL QUANTITY MAY VARY SIGNIFICANTLY.

POROUS GRANULAR EMBANKMENT						20700220
LOCATION	LENGTH	WIDTH	DEPTH	VOLUME	VOLUME	
STATION	FOOT	FOOT	FOOT	CU. FT.	CU. YD.	
UNDER THE BOX CULVERTS & END SECTIONS						
BOX CULVERT STA. 16+98.25	97.50	40.33	1.0	3932.18	145.64	
BOX CULVERT STA. 47+59.00	64.00	24.00	1.0	1536.00	56.89	
BOX CULVERT STA. 76+68.00	108.00	9.00	1.0	972.00	36.00	
BOX CULVERT STA. 145+12.89	78.00	9.00	0.5	351.00	13.00	
BOX CULVERT STA. 151+70.00	79.00	9.00	1.0	711.00	26.33	
* CONTINGENT QTY UNDER PIPE CULVERTS	300.00	3.00	1.0	900.00	33.33	
BACKFILL FOR BOX CULVERTS						
BOX CULVERT STA. 16+98.25				21168.00	784.00	
BOX CULVERT STA. 47+59.00				9801.00	363.00	
BOX CULVERT STA. 76+68.00				8444.25	312.75	
BOX CULVERT STA. 145+12.89				2057.40	76.20	
BOX CULVERT STA. 151+70.00				939.60	34.80	
TOTAL						1881.94

* CONTINGENT QUANTITIES ARE APPROXIMATE. ACTUAL QUANTITY WILL BE DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD AT TIME OF WORK. FINAL QUANTITY MAY VARY SIGNIFICANTLY.

SEEDING SCHEDULE (1 OF 2)						25000100	25000200	25100115	28000250	25000400	25000500	25000600
LOCATION	PLAN AREA	PLAN AREA	PLAN AREA X SLOPE FACTOR (1.03)	PLAN AREA X SLOPE FACTOR (1.06)	TOTAL AREA	SEEDING, CLASS 1	SEEDING, CLASS 2	MULCH, METHOD 2	TEMPORARY EROSION CONTROL SEEDING	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT
	FORESLOPES (1:4)	BACKSLOPES (1:3)	FORESLOPES (1:4)	BACKSLOPES (1:3)		AREA	AREA	AREA	100 LBS/ACRE X 3 APPLICATIONS	90 LBS/ACRE	90 LBS/ACRE	90 LBS/ACRE
	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.		ACRE	ACRE	ACRE	POUND	POUND	POUND	POUND
STATION TO STATION						ACRE	ACRE	ACRE	POUND	POUND	POUND	POUND
RIGHT SIDE												
STA. 2+25.00 RT TO STA. 3+65.00 RT	828.00	1533.00	852.84	1624.98	2477.82		0.06	0.23	17.06	5.12	5.12	5.12
STA. 2+25.00 RT TO STA. 3+65.00 RT	1375.00		1416.25	0.00	1416.25	0.03		0.13	9.75	2.93	2.93	2.93
STA. 3+78.00 RT TO STA. 5+60.00 RT	941.00	2140.00	969.23	2268.40	3237.63		0.07	0.30	22.30	6.69	6.69	6.69
STA. 3+76.00 RT TO STA. 5+64.00 RT	1489.00		1543.97	0.00	1543.97	0.04		0.16	12.00	3.60	3.60	3.60
STA. 5+74.00 RT TO STA. 7+77.00 RT	672.00	2791.00	692.16	2958.46	3650.62		0.08	0.34	25.14	7.54	7.54	7.54
STA. 5+74.00 RT TO STA. 7+77.00 RT	1667.00		1717.01	0.00	1717.01	0.04		0.16	12.00	3.60	3.60	3.60
STA. 7+90.00 RT TO STA. 9+10.00 RT	504.00	1580.00	519.12	1653.60	2172.72		0.05	0.20	14.96	4.49	4.49	4.49
STA. 7+90.00 RT TO STA. 9+10.00 RT	937.00		965.11	0.00	965.11	0.02		0.08	6.00	1.80	1.80	1.80
STA. 9+26.00 RT TO STA. 10+45.00 RT	651.00	1454.00	670.53	1541.24	2211.77		0.05	0.20	15.23	4.57	4.57	4.57
STA. 9+26.00 RT TO STA. 10+45.00 RT	273.00		281.19	0.00	281.19	0.01		0.04	3.00	0.90	0.90	0.90
STA. 10+59.00 RT TO STA. 13+19.00 RT	1227.00	4877.00	1283.81	5169.62	6433.43		0.15	0.59	44.31	13.29	13.29	13.29
STA. 10+59.00 RT TO STA. 12+00.00 RT	1012.00		1042.36	0.00	1042.36	0.02		0.10	7.18	2.15	2.15	2.15
STA. 13+32.00 RT TO STA. 14+83.00 RT	1324.00	3076.00	1363.72	3260.56	4624.28		0.11	0.42	31.85	9.55	9.55	9.55
STA. 15+20.00 RT TO STA. 21+81.00 RT	20187.00	15780.00	20792.61	16726.80	37519.41		0.86	3.45	258.40	77.52	77.52	77.52
STA. 22+19.00 RT TO STA. 34+33.00 RT	15397.00	19174.00	15858.91	20324.44	36183.35		0.83	3.32	249.20	74.76	74.76	74.76
STA. 34+68.00 RT TO STA. 36+37.00 RT	1530.00	5156.00	1575.90	5465.36	7041.26		0.16	0.65	48.49	14.55	14.55	14.55
STA. 36+62.00 RT TO STA. 40+30.00 RT	4380.00	5721.00	4511.40	6064.26	10575.66		0.24	0.97	72.84	21.85	21.85	21.85
STA. 40+78.00 RT TO STA. 48+12.00 RT	10798.00	10212.00	11121.94	10824.72	21946.66		0.50	2.02	151.15	45.34	45.34	45.34
STA. 48+50.00 RT TO STA. 51+68.00 RT	2482.00	8739.00	2556.46	9263.34	11819.80		0.27	1.09	81.40	24.42	24.42	24.42
STA. 52+11.00 RT TO STA. 57+80.00 RT	6161.00	7314.00	6345.83	7752.84	14098.67		0.32	1.29	97.10	29.13	29.13	29.13
STA. 58+20.00 RT TO STA. 62+00.00 RT	3413.00	3373.00	3515.39	3575.38	7090.77		0.16	0.65	48.83	14.65	14.65	14.65
STA. 62+00.00 RT TO STA. 62+85.00 RT	748.00	1458.00	770.44	1545.48	2315.92	0.04	0.02	0.21	15.95	4.78	4.78	4.78
STA. 63+02.00 RT TO STA. 70+38.00 RT	15428.00	12606.00	15890.84	13362.36	29253.20		0.67	2.69	201.47	60.44	60.44	60.44
STA. 70+68.00 RT TO STA. 85+28.00 RT	29514.00	30296.00	30399.42	32113.76	62513.18		1.44	5.74	430.53	129.16	129.16	129.16
STA. 85+72.00 RT TO STA. 91+77.00 RT	10274.00	7216.00	10582.22	7648.96	18231.18		0.42	1.67	125.56	37.67	37.67	37.67
STA. 92+20.00 RT TO STA. 100+80.00 RT	11249.00	11257.00	11586.47	11932.42	23518.89		0.54	2.16	161.98	48.59	48.59	48.59
STA. 100+96.00 RT TO STA. 102+30.00 RT	855.00	3731.00	880.65	3954.86	4835.51	0.09	0.02	0.44	33.30	9.99	9.99	9.99
STA. 102+65.00 RT TO STA. 107+50.00 RT	5778.00	7048.00	5951.34	7470.88	13422.22		0.31	1.23	92.44	27.73	27.73	27.73
STA. 108+10.00 RT TO STA. 109+58.00 RT	3791.00	3413.00	3904.73	3617.78	7522.51		0.17	0.69	51.81	15.54	15.54	15.54
STA. 109+93.00 RT TO STA. 122+65.00 RT	25362.00	19055.00	26122.86	20198.30	46321.16		1.06	4.25	319.02	95.70	95.70	95.70
STA. 123+06.00 RT TO STA. 128+40.00 RT	9026.00	11349.00	9296.78	12029.94	21326.72		0.49	1.96	146.88	44.06	44.06	44.06
STA. 128+57.00 RT TO STA. 129+66.00 RT	641.00	1352.00	660.23	1433.12	2093.35	0.03	0.02	0.19	14.42	4.33	4.33	4.33
STA. 130+07.00 RT TO STA. 135+82.50 RT	7057.00	6123.00	7268.71	6490.38	13759.09		0.32	1.26	94.76	28.43	28.43	28.43
STA. 136+17.50 RT TO STA. 139+20.00 RT	3240.00	3547.00	3337.20	3759.82	7097.02		0.16	0.65	48.88	14.66	14.66	14.66
STA. 139+41.00 RT TO STA. 149+07.00 RT	11337.00	9985.00	11677.11	10584.10	22261.21		0.51	2.04	153.31	45.99	45.99	45.99
STA. 149+42.00 RT TO STA. 175+29.00 RT	30289.00	55780.00	31197.67	59126.80	90324.47		2.07	8.29	622.07	186.62	186.62	186.62
STA. 175+69.00 RT TO STA. 179+81.00 RT	8385.00	7962.00	8636.55	8439.72	17076.27		0.39	1.57	117.61	35.28	35.28	35.28
STA. 180+19.00 RT TO STA. 180+30.00 RT	1206.00	1851.00	1242.18	1962.06	3204.24		0.07	0.29	22.07	6.62	6.62	6.62
TOTAL RIGHT SIDE ONLY						0.33	12.61	51.74	3880.24	1164.07	1164.07	1164.07

HEAVY DUTY EROSION CONTROL BLANKET				25100635
LOCATION	LENGTH	WIDTH	AREA	
STATION TO STATION	FOOT	FOOT	SQ. YD.	
KNOX COUNTY HIGHWAY #4 - LEFT SIDE				
STA. 17+05.00 LT TO STA. 19+50.00 LT	245.00	7.00	190.56	
STA. 22+00.00 LT TO STA. 23+65.00 LT	165.00	7.00	128.33	
STA. 33+07.00 LT TO STA. 34+07.00 LT	100.00	7.00	77.78	
STA. 36+80.00 LT TO STA. 37+80.00 LT	100.00	7.00	77.78	
STA. 44+00.00 LT TO STA. 45+72.00 LT	172.00	7.00	133.78	
STA. 47+77.00 LT TO STA. 50+50.00 LT	273.00	7.00	212.33	
STA. 69+50.00 LT TO STA. 70+33.00 LT	110.00	7.00	85.56	
STA. 71+07.00 LT TO STA. 73+00.00 LT	193.00	7.00	150.11	
STA. 76+75.00 LT TO STA. 78+00.00 LT	125.00	7.00	97.22	
STA. 87+29.00 LT TO STA. 88+29.00 LT	100.00	7.00	77.78	
STA. 110+50.00 LT TO STA. 115+00.00 LT	450.00	7.00	350.00	
STA. 118+37.00 LT TO STA. 119+37.00 LT	100.00	7.00	77.78	
STA. 125+94.00 LT TO STA. 127+00.00 LT	106.00	7.00	82.44	
STA. 144+50.00 LT TO STA. 145+12.00 LT	62.00	7.00	48.22	
STA. 145+25.00 LT TO STA. 145+69.00 LT	44.00	7.00	34.22	
STA. 151+76.00 LT TO STA. 155+00.00 LT	324.00	7.00	252.00	
STA. 174+00.00 LT TO STA. 175+28.00 LT	128.00	7.00	99.56	
KNOX COUNTY HIGHWAY #4 - RIGHT SIDE				
STA. 4+90.00 RT TO STA. 5+10.00 RT	20.00	7.00	15.56	
STA. 6+90.00 RT TO STA. 7+10.00 RT	20.00	7.00	15.56	
STA. 8+40.00 RT TO STA. 8+60.00 RT	20.00	7.00	15.56	
STA. 9+90.00 RT TO STA. 10+10.00 RT	20.00	7.00	15.56	
STA. 13+01.00 RT TO STA. 13+13.00 RT	12.00	7.00	9.33	
STA. 17+51.00 RT TO STA. 19+00.00 RT	149.00	7.00	115.89	
STA. 22+24.00 RT TO STA. 22+39.00 RT	15.00	7.00	11.67	
STA. 32+00.00 RT TO STA. 33+53.00 RT	153.00	7.00	119.00	
STA. 33+61.00 RT TO STA. 34+21.00 RT	60.00	7.00	46.67	
STA. 36+75.00 RT TO STA. 37+26.00 RT	51.00	7.00	39.67	
STA. 37+34.00 RT TO STA. 37+55.00 RT	21.00	7.00	16.33	
STA. 44+00.00 RT TO STA. 47+41.00 RT	341.00	7.00	265.22	
STA. 52+12.00 RT TO STA. 53+00.00 RT	88.00	7.00	68.44	
STA. 69+00.00 RT TO STA. 1603+75.00 LT	207.00	7.00	161.00	
STA. 87+29.00 RT TO STA. 87+75.00 RT	46.00	7.00	35.78	
STA. 87+84.00 RT TO STA. 88+29.00 RT	45.00	7.00	35.00	
STA. 102+00.00 RT TO STA. 102+15.00 RT	15.00	7.00	11.67	
STA. 111+50.00 RT TO STA. 115+00.00 RT	350.00	7.00	272.22	
STA. 118+19.00 RT TO STA. 118+63.00 RT	44.00	7.00	34.22	
STA. 118+75.00 RT TO STA. 119+20.00 RT	45.00	7.00	35.00	
STA. 125+80.00 RT TO STA. 127+00.00 RT	120.00	7.00	93.33	
STA. 144+63.00 RT TO STA. 145+06.00 RT	43.00	7.00	33.44	
STA. 145+19.00 RT TO STA. 145+63.00 RT	44.00	7.00	34.22	
STA. 151+76.00 RT TO STA. 155+00.00 RT	324.00	7.00	252.00	
STA. 174+00.00 RT TO STA. 1804+00.00 LT	186.00	7.00	144.67	
TOTAL				4072.44

FILE NAME	USER NAME * USER*	DESIGNED -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				SCHEDULE OF QUANTITIES				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISOR -									393	12-00001-01-RS	KNOX	174	10
		CHECKED -	REVISOR -									SCALE: SHEET NO. 10 OF 174 SHEETS STA. TO STA.				COUNTY HIGHWAY #4 CONTRACT NO. 89614
		DATE - MARCH 2013	REVISOR -					FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (105)								

SUBBASE GRANULAR MATERIAL, TYPE B						31101100
LOCATION	LENGTH	WIDTH	DEPTH	VOLUME	VOLUME	
STATION TO STATION	FOOT	FOOT	FOOT	CU. FT.	CU. YD.	
UNDER THE ROADWAY						
STA. 14+00.00 TO STA. 15+00.00	100	24	2.00	4800	177.78	
STA. 66+00.00 TO STA. 70+00.00	400	24	2.25	21600	800.00	
CONTINGENT QTY UNDER THE ROADWAY	1000	24	2.00	48000	1777.78	
TOTAL					2755.56	

AGGREGATE BASE COURSE, TYPE A					35100700	35101100	35101350	
LOCATION	ALIGNMENT	LENGTH	WIDTH	AREA	8"	12"	15"	
STATION TO STATION		FOOT	FOOT	SQ. FT.	SQ. YD.	SQ. YD.	SQ. YD.	
STA. 3+15.00 TO STA. 56+00.00	COUNTY HIGHWAY #4	5285.00	24	126840.00	14093.33			
STA. 56+00.00 TO STA. 66+00.00	COUNTY HIGHWAY #4	1000.00	24	24000.00		2666.67		
STA. 66+00.00 TO STA. 107+50.00	COUNTY HIGHWAY #4	4150.00	24	99600.00	11066.67			
STA. 108+10.00 TO STA. 143+00.00	COUNTY HIGHWAY #4	3490.00	24	83760.00	9306.67			
STA. 143+00.00 TO STA. 147+00.00	COUNTY HIGHWAY #4	400.00	24	9600.00		1066.67		
STA. 147+00.00 TO STA. 165+00.00	COUNTY HIGHWAY #4	1800.00	24	43200.00	4800.00			
STA. 165+00.00 TO STA. 169+00.00	COUNTY HIGHWAY #4	400.00	24	9600.00		1066.67		
STA. 169+00.00 TO STA. 178+30.00	COUNTY HIGHWAY #4	930.00	24	22320.00	2480.00			
STA. 178+30.00 TO STA. 181+30.00	COUNTY HIGHWAY #4	300.00	22	6600.00			733.33	
STA. 1602+30.00 TO STA. 1604+88.00	TR 1600 E	258.00	VARIES	7224.59	802.73			
STA. 1605+12.00 TO STA. 1607+00.00	TR 1600 E	188.00	VARIES	5587.78	620.86			
STA. 1704+21.74 TO STA. 1704+87.90	TR 1700 E	66.16	VARIES	2671.37	296.82			
STA. 1705+11.90 TO STA. 1705+78.12	TR 1700 E	66.22	VARIES	2678.94	297.66			
STA. 1802+40.00 TO STA. 1804+88.00	COUNTY HIGHWAY #15	248.00	VARIES	7024.48		780.50		
STA. 1805+12.00 TO STA. 1805+79.95	TR 1800 E	67.95	VARIES	2719.55	302.17			
TOTAL					453428.71	44066.91	5580.50	733.33

ROADWAY PAVEMENT SCHEDULE						40600115	40600100	40600982	40603080	40603310	42000201	42001300	X4020800	
LOCATION	ALIGNMENT	LENGTH	WIDTH	AREA		POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (PRIME COAT)	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	PORTLAND CEMENT CONCRETE PAVEMENT 7" (JOINTED)	PROTECTIVE COAT	AGGREGATE SURFACE COURSE, TYPE B 12"	
STATION TO STATION		FOOT	FOOT	SQ. FT.	SQ. YD.	VOLUME GALLON	VOLUME GALLON	AREA SQ. YD.	WEIGHT TON	WEIGHT TON	AREA SQ. YD.	AREA SQ. YD.	AREA SQ. YD.	
STA. 2+58.00 TO STA. 2+95.20	COUNTY HIGHWAY #4	37.20	22	818.40	90.93	11.82		90.93		10.18				
STA. 2+95.20 TO STA. 3+15.00	COUNTY HIGHWAY #4	19.80	22	435.60	48.40	6.29				9.22				
STA. 3+15.00 TO STA. 107+50.00	COUNTY HIGHWAY #4	10435.00	22	229570.00	25507.78						25507.78	25507.78		
STA. 107+50.00 TO STA. 108+10.00	COUNTY HIGHWAY #4	60.00	22	1320.00	146.67	7.33				12.32				
STA. 108+10.00 TO STA. 178+30.00	COUNTY HIGHWAY #4	7020.00	22	154440.00	17160.00						17160.00	17160.00		
STA. 1602+30.00 TO STA. 1604+89.00	TR 1600 E	259.00	VARIES	6785.54	753.95	37.70	376.97		147.77	84.44				
STA. 1605+11.00 TO STA. 1607+00.00	TR 1600 E	189.00	VARIES	5289.21	587.69	29.38	293.85		115.19	65.82				
STA. 1703+45.00 TO STA. 1704+21.74	TR 1700 E	76.74	VARIES	1770.05	196.67								196.67	
STA. 1704+21.74 TO STA. 1704+88.90	TR 1700 E	67.16	VARIES	2603.14	289.24			14.46	144.62	32.39				
STA. 1705+10.90 TO STA. 1705+78.12	TR 1700 E	67.22	VARIES	2611.42	290.16			14.51	145.08	32.50				
STA. 1705+78.12 TO STA. 1706+50.00	TR 1700 E	71.88	VARIES	1587.64	176.40								176.40	
STA. 1802+40.00 TO STA. 1804+89.00	TR 1800 E	249.00	VARIES	6620.32	735.59	73.56	367.80		185.37	82.39				
STA. 1805+11.00 TO STA. 1805+79.95	TR 1800 E	68.95	VARIES	2645.94	293.99	29.40	147.00		57.62	32.93				
STA. 1805+79.95 TO STA. 1806+29.95	TR 1800 E	50.00	VARIES	1091.51	121.28								121.28	
TOTAL					417588.77	46398.75	224.46	1475.31	90.93	619.51	362.19	42667.78	42667.78	494.36

CAST IN PLACE BOX CULVERT SCHEDULE					50800105	51500100	54003000
LOCATION	SIZE	REINFORCEMENT BARS	NAME PLATES	CONCRETE BOX CULVERTS			
STATION	FOOT	WEIGHT POUND	UNIT EACH	VOLUME CU. YD.			
STA. 16+98.25	TRIPLE 11' X 10'	76330.0	1.0	429.4			
STA. 47+59.00	DOUBLE 9' X 8'	21580.0	1.0	151.3			
TOTAL					97910.0	2.0	580.7

PRECAST BOX CULVERT SCHEDULE							54001001	54001002	54001003	54010403	54010404	54260311
LOCATION	ALIGNMENT	BOX CULVERT END SECTIONS, CULVERT NO. 1	BOX CULVERT END SECTIONS, CULVERT NO. 2	BOX CULVERT END SECTIONS, CULVERT NO. 3	PRECAST CONCRETE BOX CULVERTS 4' X 3'	PRECAST CONCRETE BOX CULVERTS 4' X 4'	TRAVERSABLE PIPE GRATE					
STATION		UNIT EACH	UNIT EACH	UNIT EACH	LENGTH FOOT	LENGTH FOOT	LENGTH FOOT					
STA. 76+68.00	COUNTY HIGHWAY #4	2.0										
STA. 145+12.89	COUNTY HIGHWAY #4		2.0		62.0	88.0						
STA. 151+70.00	COUNTY HIGHWAY #4			2.0	36.0		62.0					
TOTAL		2.0	2.0	2.0	98.0	88.0	62.0					

PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH					42400100
LOCATION	LT/RT	LENGTH	WIDTH	AREA	
STATION TO STATION		FOOT	FOOT	SQ. FT.	
STA. 2+83.11 TO STA. 3+65.80	RT	82.69	5.00	413.45	
STA. 3+76.19 TO STA. 5+63.29	RT	187.10	5.00	935.50	
STA. 4+44.53 WALKWAY	RT	4.00	5.00	20.00	
STA. 5+73.71 TO STA. 7+79.80	RT	206.09	5.00	1030.45	
STA. 6+23.22 WALKWAY	RT	4.00	5.00	20.00	
STA. 7+32.56 WALKWAY	RT	4.00	5.00	20.00	
STA. 7+90.20 TO STA. 9+12.80	RT	122.60	5.00	613.00	
STA. 9+23.20 TO STA. 10+46.80	RT	123.60	5.00	618.00	
STA. 9+99.63 WALKWAY	RT	4.00	5.00	20.00	
STA. 10+57.20 TO STA. 12+00.00	RT	142.80	5.00	714.00	
STA. 11+94.37 WALKWAY	RT	4.00	5.00	20.00	
TOTAL					4424.40

PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH					42400300
LOCATION	LT/RT	LENGTH	WIDTH	AREA	
STATION TO STATION		FOOT	FOOT	SQ. FT.	
STA. 3+65.80 TO STA. 3+76.19	RT	10.39	5.00	51.95	
STA. 5+63.29 TO STA. 5+73.71	RT	10.42	5.00	52.10	
STA. 7+79.80 TO STA. 7+90.20	RT	10.40	5.00	52.00	
STA. 9+12.80 TO STA. 9+23.20	RT	10.40	5.00	52.00	
STA. 10+46.80 TO STA. 10+57.20	RT	10.40	5.00	52.00	
TOTAL					260.05

SIDEWALK REMOVAL			44000600
LOCATION	LT/RT	AREA	
STATION TO STATION		SQ. FT.	
STA. 2+74.34 TO STA. 12+61.25	RT	3947.64	
TOTAL			3947.64

REMOVAL OF EXISTING STRUCTURES NO. 1		50100300
LOCATION	UNITS	
STATION	EACH	
DOUBLE 10' X 8' BOX CULVERT STA. 16+98.25	1.0	
TOTAL		1.0

REMOVAL OF EXISTING STRUCTURES NO. 2		50100400
LOCATION	UNITS	
STATION	EACH	
SINGLE 12' X 9' BOX CULVERT STA. 47+59.00	1.0	
TOTAL		1.0

AGGREGATE FOR TEMPORARY ACCESS						40201000
LOCATION STATION	ALIGNMENT	FOR INFO ONLY				WEIGHT TON
		AREA		THICKNESS	VOLUME	
		SQ.FT.	SQ.YD.	INCH	CU.YD.	
STA. 3+71.00 RT	COUNTY HIGHWAY #4	239.22	26.58	3	2.22	4.54
STA. 4+50.00 LT	COUNTY HIGHWAY #4	760.20	84.47	3	7.04	14.43
STA. 5+68.00 RT	COUNTY HIGHWAY #4	242.44	26.94	3	2.24	4.60
STA. 7+85.00 RT	COUNTY HIGHWAY #4	245.98	27.33	3	2.28	4.67
STA. 9+18.00 RT	COUNTY HIGHWAY #4	248.15	27.57	3	2.30	4.71
STA. 10+52.00 RT	COUNTY HIGHWAY #4	250.33	27.81	3	2.32	4.75
STA. 13+26.00 RT	COUNTY HIGHWAY #4	329.13	36.57	3	3.05	6.25
STA. 15+00.00 RT	COUNTY HIGHWAY #4	1065.31	118.37	3	9.86	20.22
STA. 22+00.00 RT	COUNTY HIGHWAY #4	1046.68	116.30	3	9.69	19.87
STA. 25+19.00 LT	COUNTY HIGHWAY #4	392.92	43.66	3	3.64	7.46
STA. 26+05.00 LT	COUNTY HIGHWAY #4	1046.68	116.30	3	9.69	19.87
STA. 29+00.00 LT	COUNTY HIGHWAY #4	1064.40	118.27	3	9.86	20.20
STA. 34+50.00 RT	COUNTY HIGHWAY #4	1501.68	166.85	3	13.90	28.50
STA. 36+50.00 RT	COUNTY HIGHWAY #4	771.68	85.74	3	7.15	14.65
STA. 40+53.50 RT	COUNTY HIGHWAY #4	675.53	75.06	3	6.25	12.82
STA. 40+60.00 LT	COUNTY HIGHWAY #4	510.53	56.73	3	4.73	9.69
STA. 46+00.00 LT	COUNTY HIGHWAY #4	1221.68	135.74	3	11.31	23.19
STA. 48+30.00 RT	COUNTY HIGHWAY #4	1403.84	155.98	3	13.00	26.65
STA. 51+90.50 RT	COUNTY HIGHWAY #4	876.70	97.41	3	8.12	16.64
STA. 57+52.00 LT	COUNTY HIGHWAY #4	394.71	43.88	3	3.65	7.49
STA. 58+00.00 RT	COUNTY HIGHWAY #4	880.43	97.83	3	8.15	16.71
STA. 62+94.00 RT	COUNTY HIGHWAY #4	458.00	50.89	3	4.24	8.69
STA. 85+50.00 RT	COUNTY HIGHWAY #4	1046.68	116.30	3	9.69	19.87
STA. 85+54.00 LT	COUNTY HIGHWAY #4	330.53	36.73	3	3.06	6.27
STA. 91+50.00 LT	COUNTY HIGHWAY #4	801.55	89.06	3	7.42	15.21
STA. 92+00.00 RT	COUNTY HIGHWAY #4	871.68	96.85	3	8.07	16.55
STA. 97+26.50 LT	COUNTY HIGHWAY #4	425.34	47.26	3	3.94	8.07
STA. 100+78.00 LT	COUNTY HIGHWAY #4	1046.68	116.30	3	9.69	19.87
STA. 100+78.00 RT	COUNTY HIGHWAY #4	1411.17	156.80	3	13.07	26.79
STA. 102+47.00 RT	COUNTY HIGHWAY #4	1396.68	155.19	3	12.93	26.51
STA. 109+75.00 LT	COUNTY HIGHWAY #4	1675.72	186.19	3	15.52	31.81
STA. 109+75.00 RT	COUNTY HIGHWAY #4	1991.78	221.31	3	18.44	37.81
STA. 116+77.50 LT	COUNTY HIGHWAY #4	508.53	56.50	3	4.71	9.65
STA. 128+50.00 RT	COUNTY HIGHWAY #4	384.54	42.73	3	3.56	7.30
STA. 129+83.00 RT	COUNTY HIGHWAY #4	719.15	79.91	3	6.66	13.65
STA. 135+80.00 LT	COUNTY HIGHWAY #4	871.68	96.85	3	8.07	16.55
STA. 136+00.00 RT	COUNTY HIGHWAY #4	871.68	96.85	3	8.07	16.55
STA. 138+50.00 LT	COUNTY HIGHWAY #4	871.68	96.85	3	8.07	16.55
STA. 139+31.25 RT	COUNTY HIGHWAY #4	349.58	38.84	3	3.24	6.64
STA. 141+39.50 LT	COUNTY HIGHWAY #4	439.80	48.87	3	4.07	8.35
STA. 146+00.00 LT	COUNTY HIGHWAY #4	1046.68	116.30	3	9.69	19.87
STA. 149+60.00 LT	COUNTY HIGHWAY #4	797.94	88.66	3	7.39	15.15
STA. 149+23.00 RT	COUNTY HIGHWAY #4	1328.51	147.61	3	12.30	25.22
STA. 161+00.00 LT	COUNTY HIGHWAY #4	976.68	108.52	3	9.04	18.54
STA. 180+00.00 RT	COUNTY HIGHWAY #4	1098.17	122.02	3	10.17	20.84
STA. 1606+20.80 LT	TR 1600 E	258.59	28.73	3	2.39	4.91
STA. 1703+82.46 LT	TR 1700 E	1242.34	138.04	3	11.50	23.58
STA. 1706+12.50 LT	TR 1700 E	1251.08	139.01	3	11.58	23.75
STA. 1706+12.50 RT	TR 1700 E	1841.88	204.65	3	17.05	34.96
STA. 1805+92.50 LT	TR 1800 E	480.33	53.37	3	4.45	9.12
STA. 3+15.00 TO STA. 181+30.00	COUNTY HIGHWAY #4	391930.00	43547.78	3	3628.98	7439.41
TOTAL		433892.87	48210.32		4017.53	8235.93

BITUMINOUS MATERIALS (PRIME COAT)		40600100
LOCATION	VOLUME GALLON	
ROADWAY PAVEMENT	1475.31	
APRON / MAILBOX TURNOUT PAVEMENT	727.57	
TOTAL	2202.88	

POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)		40600115
LOCATION	VOLUME GALLON	
ROADWAY PAVEMENT	224.46	
APRON / MAILBOX TURNOUT PAVEMENT	148.17	
TOTAL	372.63	

ENTRANCES AND MAILBOX TURNOUTS SCHEDULE					X4020500	40600115	40600100	40800050	X0000002	X0000003
LOCATION STATION	ALIGNMENT	ENTRANCE			ENTRANCE	APRON/TURNOUT				
		LENGTH	WIDTH	AREA	AREA	VOLUME	VOLUME	WEIGHT	AREA	AREA
		FOOT	FOOT	SQ. FT.	SQ. YD.	GALLON	GALLON	TON	SQ. YD.	SQ. YD.
STA. 3+71.00 RT	COUNTY HIGHWAY #4	17	10	239.22	26.58	1.60	8.00	4.93	16.00	
STA. 4+50.00 LT	COUNTY HIGHWAY #4	17	35	760.20	84.47	3.51	17.56	10.81	35.11	
STA. 5+68.00 RT	COUNTY HIGHWAY #4	17	10	242.44	26.94	2.69	13.47	8.30	26.94	
STA. 7+85.00 RT	COUNTY HIGHWAY #4	17	10	245.98	27.33	1.60	8.00	4.93	16.00	
STA. 9+18.00 RT	COUNTY HIGHWAY #4	17	10	248.15	27.57	1.60	8.00	4.93	16.00	
STA. 10+52.00 RT	COUNTY HIGHWAY #4	18	10	250.33	27.81	1.60	8.00	4.93	16.00	
STA. 13+26.00 RT	COUNTY HIGHWAY #4	24	12	329.13	36.57	1.60	8.00	4.93	16.00	
STA. 15+00.00 RT	COUNTY HIGHWAY #4	26	35	1065.31	118.37	3.51	17.56	10.81	35.11	
STA. 22+00.00 RT	COUNTY HIGHWAY #4	25	35	1046.68	116.30	3.51	17.56	10.81	35.11	
STA. 25+19.00 LT	COUNTY HIGHWAY #4	25	14	392.92	43.66	1.69	8.44	5.20	16.89	
STA. 26+05.00 LT	COUNTY HIGHWAY #4	25	35	1046.68	116.30	4.33	21.67	13.35	43.34	
STA. 29+00.00 LT	COUNTY HIGHWAY #4	25	35	1064.40	118.27	3.51	17.56	10.81	35.11	
STA. 34+50.00 RT	COUNTY HIGHWAY #4	38	35	1501.68	166.85	3.51	17.56	10.81	35.11	
STA. 36+50.00 RT	COUNTY HIGHWAY #4	25	24	771.68	85.74	3.02	15.11	9.31	30.22	
STA. 40+53.50 RT	COUNTY HIGHWAY #4	15	35	675.53	75.06	4.28	21.38	13.17	42.77	
STA. 40+60.00 LT	COUNTY HIGHWAY #4	15	24	510.53	56.73	2.97	14.83	9.13	29.66	
STA. 46+00.00 LT	COUNTY HIGHWAY #4	30	35	1221.68	135.74	3.51	17.56	10.81	35.11	
STA. 48+30.00 RT	COUNTY HIGHWAY #4	35	35	1403.84	155.98	3.51	17.56	10.81	35.11	
STA. 51+90.50 RT	COUNTY HIGHWAY #4	20	35	876.70	97.41	3.51	17.56	10.81	35.11	
STA. 57+52.00 LT	COUNTY HIGHWAY #4	15	16	394.71	43.86	2.62	13.11	8.08		26.23
STA. 58+00.00 RT	COUNTY HIGHWAY #4	20	35	880.43	97.83	4.80	24.00	14.78		48.00
STA. 62+94.00 RT	COUNTY HIGHWAY #4	20	14	458.00	50.89	3.40	17.00	10.47		34.00
STA. 85+50.00 RT	COUNTY HIGHWAY #4	25	35	1046.68	116.30	3.51	17.56	10.81	35.11	
STA. 85+54.00 LT	COUNTY HIGHWAY #4	15	12	330.53	36.73	3.25	16.27	10.02	32.55	
STA. 91+50.00 LT	COUNTY HIGHWAY #4	18	35	801.55	89.06	3.51	17.56	10.81	35.11	
STA. 92+00.00 RT	COUNTY HIGHWAY #4	20	35	871.68	96.85	3.51	17.56	10.81	35.11	
STA. 97+26.50 LT	COUNTY HIGHWAY #4	21	12	425.34	47.26	3.20	16.00	9.86	32.00	
STA. 100+78.00 LT	COUNTY HIGHWAY #4	25	35	1046.68	116.30	3.51	17.56	10.81	35.11	
STA. 100+78.00 RT	COUNTY HIGHWAY #4	35	35	1411.17	156.80	3.51	17.56	10.81	35.11	
STA. 101+60.00 LT	COUNTY HIGHWAY #4					1.44	7.22	4.45	14.44	
STA. 102+47.00 RT	COUNTY HIGHWAY #4	35	35	1396.68	155.19	3.51	17.56	10.81	35.11	
STA. 109+75.00 LT	COUNTY HIGHWAY #4	43	35	1675.72	186.19	3.51	17.56	10.81	35.11	
STA. 109+75.00 RT	COUNTY HIGHWAY #4	52	35	1991.78	221.31	3.51	17.56	10.81	35.11	
STA. 116+77.50 LT	COUNTY HIGHWAY #4	28	12	508.53	56.50	3.51	17.56	10.81	35.11	
STA. 128+50.00 RT	COUNTY HIGHWAY #4	17	13	384.54	42.73	3.22	16.12	9.93	32.24	
STA. 129+83.00 RT	COUNTY HIGHWAY #4	16	35	719.15	79.91	3.48	17.38	10.71	34.76	
STA. 135+80.00 LT	COUNTY HIGHWAY #4	20	35	871.68	96.85	3.51	17.56	10.81	35.11	
STA. 136+00.00 RT	COUNTY HIGHWAY #4	20	35	871.68	96.85	3.51	17.56	10.81	35.11	
STA. 138+50.00 LT	COUNTY HIGHWAY #4	20	35	871.68	96.85	3.51	17.56	10.81	35.11	
STA. 139+31.25 RT	COUNTY HIGHWAY #4	15	12	349.58	38.84	3.31	16.56	10.20	33.11	
STA. 141+39.50 LT	COUNTY HIGHWAY #4	22	12	439.80	48.87	2.49	12.44	7.67	24.89	
STA. 146+00.00 LT	COUNTY HIGHWAY #4	25	35	1046.68	116.30	3.51	17.56	10.81	35.11	
STA. 149+60.00 LT	COUNTY HIGHWAY #4	18	35	797.94	88.66	3.51	17.56	10.81	35.11	
STA. 149+23.00 RT	COUNTY HIGHWAY #4	33	35	1328.51	147.61	3.51	17.56	10.81	35.11	
STA. 161+00.00 LT	COUNTY HIGHWAY #4	23	35	976.68	108.52	3.51	17.56	10.81	35.11	
STA. 180+00.00 RT	COUNTY HIGHWAY #4	26	35	1098.17	122.02					
STA. 1606+20.80 LT	TR 1600 E	18	12	258.59	28.73	1.60	8.00	4.93	16.00	
STA. 1703+82.46 LT	TR 1700 E					1.44	7.22	4.45	14.43	
STA. 1706+12.50 LT	TR 1700 E	29	35	1251.08	139.01					
STA. 1706+12.50 RT	TR 1700 E	43	35	1841.88	204.65					
STA. 1805+92.50 LT	TR 1800 E	13	35	480.33	53.37	2.66		8.20	26.61	
TOTAL				41962.87	4662.54	148.17	727.57	456.38	1338.41	143.34

FILE NAME *	USER NAME * USER#	DESIGNED -	REVISED -
*FILE#		DRAWN -	REVISED -
	PLOT SCALE * SCALE#	CHECKED -	REVISED -
	PLOT DATE * DATE#	DATE - FEBRUARY 2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: SHEET NO. 15 OF 174 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	15
COUNTY HIGHWAY #4		CONTRACT NO. 89614		
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (105)				

CROSS ROAD AND SIDE ROAD PIPE CULVERT SCHEDULE															
LOCATION	ALIGNMENT	542A0220	542A0223	542A0229	542A0235	542A1060	542A1063	542A1069	542A1075	542A1087	54213660	54213663	54213669	54213675	54213687
		PIPE CULVERTS, CLASS A, TYPE 1 15"	PIPE CULVERTS, CLASS A, TYPE 1 18"	PIPE CULVERTS, CLASS A, TYPE 1 24"	PIPE CULVERTS, CLASS A, TYPE 1 30"	PIPE CULVERTS, CLASS A, TYPE 2 15"	PIPE CULVERTS, CLASS A, TYPE 2 18"	PIPE CULVERTS, CLASS A, TYPE 2 24"	PIPE CULVERTS, CLASS A, TYPE 2 30"	PIPE CULVERTS, CLASS A, TYPE 2 42"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"
STATION		LENGTH FOOT	LENGTH FOOT	LENGTH FOOT	LENGTH FOOT	LENGTH FOOT	LENGTH FOOT	LENGTH FOOT	LENGTH FOOT	LENGTH FOOT	UNIT EACH	UNIT EACH	UNIT EACH	UNIT EACH	UNIT EACH
STA. 5+00.00	COUNTY HIGHWAY #4		40.0												
STA. 7+00.00	COUNTY HIGHWAY #4		35.9												
STA. 8+50.00	COUNTY HIGHWAY #4	40.6									1.0				
STA. 10+00.00	COUNTY HIGHWAY #4					59.8					1.0				
STA. 33+57.00	COUNTY HIGHWAY #4						64.0						2.0		
STA. 37+30.00	COUNTY HIGHWAY #4						64.0						2.0		
STA. 52+37.00	COUNTY HIGHWAY #4			40.0									2.0		
STA. 72+90.00	COUNTY HIGHWAY #4				40.0									2.0	
STA. 87+79.00	COUNTY HIGHWAY #4							80.0					2.0		
STA. 93+35.00	COUNTY HIGHWAY #4		48.0										2.0		
STA. 96+32.00	COUNTY HIGHWAY #4		48.0										2.0		
STA. 100+00.00	COUNTY HIGHWAY #4		40.0										2.0		
STA. 118+78.76	COUNTY HIGHWAY #4									104.0					2.0
STA. 125+82.23	COUNTY HIGHWAY #4								72.0					2.0	
STA. 134+81.00	COUNTY HIGHWAY #4			48.0									2.0		
STA. 137+43.00	COUNTY HIGHWAY #4			40.0									2.0		
STA. 175+48.34	COUNTY HIGHWAY #4			90.0									2.0		
STA. 177+70.00	COUNTY HIGHWAY #4		40.0										2.0		
STA. 1603+75.00	TR 1600 E		40.0										2.0		
STA. 1605+50.00	TR 1600 E		58.0										1.0		
STA. 1606+50.00	TR 1600 E			51.0									1.0		
TOTAL		40.6	349.9	269.0	40.0	59.8	128.0	80.0	72.0	104.0	2.0	17.0	11.0	4.0	2.0

ENTRANCE CULVERT SCHEDULE										
LOCATION	OFFSET	LT/RT	CULVERT SLOPE	UPSTREAM CULVERT STATION	UPSTREAM INV. ELEV.	DOWN STREAM CULVERT STATION	DOWN STREAM INV. ELEV.	542D0220	542D0223	542D0229
								PIPE CULVERTS, CLASS D, TYPE 1 15"	PIPE CULVERTS, CLASS D, TYPE 1 18"	PIPE CULVERTS, CLASS D, TYPE 1 24"
STATION								LENGTH FEET	LENGTH FEET	LENGTH FEET
STA. 3+71.00	21.6	RT	0.30%	03+57.50	753.25	03+85.50	753.17	28.0		
STA. 4+50.00	25.2	LT	2.40%	04+22.00	751.97	04+82.00	750.53	60.0		
STA. 13+26.00	20.9	RT	0.50%	13+11.00	744.99	13+50.00	744.79	39.0		
STA. 15+00.00	30.2	RT	7.52%	14+72.00	738.55	15+38.00	733.58	66.0		
STA. 22+00.00	28.2	RT	1.34%	22+29.00	733.18	21+64.50	732.31	64.5		
STA. 25+19.00	24.2	LT	1.71%	25+36.00	750.49	25+01.00	749.89			
STA. 26+05.00	26.3	LT	1.71%	26+34.00	752.17	25+74.00	751.14		60.0	35.0
STA. 34+50.00	31.3	RT	2.17%	34+79.50	748.36	34+21.00	747.10	58.5		
STA. 36+50.00	31.4	RT	3.80%	36+29.50	746.56	36+74.50	744.85	45.0		
STA. 46+00.00	31.0	LT	4.48%	45+72.00	729.18	46+35.00	726.36		63.0	
STA. 48+30.00	30.0	RT	3.50%	48+56.50	727.74	47+98.50	725.71	58.0		
STA. 57+52.00	25.4	LT	1.00%	57+69.00	752.60	57+34.00	752.25	35.0		
STA. 58+00.00	25.2	RT	1.35%	58+27.00	753.68	57+71.00	752.93	56.0		
STA. 62+94.00	26.5	RT	2.10%	62+76.00	752.61	63+13.00	751.83	37.0		
STA. 85+54.00	25.8	LT	1.90%	85+37.50	749.62	85+71.50	748.98	34.0		
STA. 102+47.00	22.3	RT	2.28%	102+10.00	741.00	102+86.00	739.27	76.0		
STA. 109+75.00	39.7	RT	0.50%	110+05.50	714.59	109+43.50	714.28	62.0		
STA. 109+75.00	35.9	LT	0.50%	110+04.50	715.52	109+44.50	715.22			60.0
STA. 109+75.00	35.9	LT	0.50%	110+04.50	715.52	109+44.50	715.22			60.0
STA. 128+50.00	23.5	RT	2.78%	128+68.00	747.80	128+30.00	746.74	38.0		
STA. 138+50.00	25.9	LT	1.39%	138+80.00	745.66	138+18.00	744.80	62.0		
STA. 146+00.00	31.1	LT	3.33%	146+26.00	738.38	145+69.00	736.48	57.0		
STA. 161+00.00	29.5	LT	2.20%	161+26.50	748.12	160+70.50	746.89	56.0		
TOTAL								932.0	123.0	155.0

DRAINAGE STRUCTURES SCHEDULE			
LOCATION	60219000	60236200	X6024502
	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	INLETS, TYPE A, TYPE 8 GRATE	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE
STATION	UNIT EACH	UNIT EACH	UNIT EACH
STATION 5+00.00, 21.0' RT		1.0	
STATION 7+00.00, 19.7' RT		1.0	
STATION 8+50.00, 20.9' RT		1.0	
STATION 10+00.00, 22.0' RT	1.0		
STATION 13+11.00, 19.7' RT		1.0	
STATION 22+29.00, 27.2' RT		1.0	
STATION 102+10.00, 21.3' RT		1.0	
STATION 1605+50.00, 26.0' LT			1.0
STATION 1606+50.00, 24.0' LT			1.0
TOTAL	1.0	6.0	2.0

REMOVING INLETS			60500060
LOCATION STATION	OFFSET	LT/RT	UNIT EACH
STA. 7+00.00	19.66	RT	1.0
STA. 8+50.00	20.90	RT	1.0
STA. 10+00.00	22.04	RT	1.0
STA. 12+84.15	27.63	RT	1.0
TOTAL			4.0

FIELD TILE JUNCTION VAULTS			
* CONTINGENT QUANTITY FOR FIELD TILE JUNCTION VAULTS DURING CONSTRUCTION			
2' DIA.	3' DIA.	4' DIA.	5' DIA.
61133100	61133200	61133300	61133400
5 EACH	5 EACH	5 EACH	5 EACH

* CONTINGENT QUANTITIES ARE APPROXIMATE. ACTUAL QUANTITY WILL BE DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD AT THE TIME OF WORK. FINAL QUANTITY MAY VARY SIGNIFICANTLY.

STORM SEWERS SPECIAL (FOOT)						
* CONTINGENT QUANTITY FOR FIELD TILE REPLACEMENT DURING CONSTRUCTION						
6"	8"	10"	12"	15"	18"	24"
61139900	61140000	61140100	61140200	61140400	61140600	61140900
300 FEET	300 FEET	300 FEET	300 FEET	300 FEET	300 FEET	300 FEET

* CONTINGENT QUANTITIES ARE APPROXIMATE. ACTUAL QUANTITY WILL BE DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD AT THE TIME OF WORK. FINAL QUANTITY MAY VARY SIGNIFICANTLY.

TRAFFIC CONTROL AND PROTECTION, (SPECIAL)		X7010216
LOCATION	UNIT	
STATION	L SUM	
ENTIRE JOB SITE	1.0	
TOTAL	1.0	

GUARDRAIL AGGREGATE EROSION CONTROL			Z0001002
LOCATION	LT/RT	WEIGHT	
STATION TO STATION	TON		
STA. 104+53.50 TO STA. 107+50.00	RT	74.74	
STA. 106+16.00 TO STA. 107+49.99	LT	33.78	
STA. 108+09.99 TO STA. 109+49.50	LT	35.17	
STA. 108+10.01 TO STA. 109+49.20	RT	35.09	
TOTAL		178.77	

SIGN REMOVAL			X7240300
LOCATION	OFFSET	RT/LT	UNIT
STATION	EACH		
STA. 6+32.72	20.11	RT	1.0
STA. 10+41.53	21.48	LT	1.0
STA. 13+82.04	34.17	RT	1.0
STA. 16+32.18	16.32	LT	1.0
STA. 18+63.76	21.81	RT	1.0
STA. 19+88.25	23.69	LT	1.0
STA. 26+46.01	23.14	LT	1.0
STA. 31+82.12	20.95	RT	1.0
STA. 32+69.12	23.35	RT	1.0
STA. 40+78.49	25.30	RT	1.0
STA. 40+91.26	19.87	LT	1.0
STA. 48+52.13	17.89	LT	1.0
STA. 48+52.54	19.46	RT	1.0
STA. 57+80.45	20.35	LT	1.0
STA. 69+70.89	29.62	LT	1.0
STA. 70+33.35	56.42	LT	1.0
STA. 70+73.57	23.81	RT	1.0
STA. 70+79.78	39.68	LT	1.0
STA. 72+33.97	10.29	RT	1.0
STA. 83+14.84	25.16	LT	1.0
STA. 93+44.60	26.04	RT	1.0
STA. 101+59.96	26.12	RT	1.0
STA. 108+64.29	19.47	RT	1.0
STA. 116+06.16	21.33	LT	1.0
STA. 122+46.45	42.46	LT	1.0
STA. 123+11.22	35.14	RT	1.0
STA. 130+25.79	24.44	RT	1.0
STA. 136+95.28	21.26	LT	1.0
STA. 149+66.79	25.73	LT	1.0
STA. 160+89.09	25.00	RT	1.0
STA. 163+13.63	25.84	RT	1.0
STA. 169+78.14	2.17	RT	1.0
STA. 169+76.07	43.47	RT	1.0
STA. 173+62.90	11.66	RT	1.0
STA. 175+27.81	169.81	RT	1.0
STA. 175+35.98	8.79	LT	1.0
STA. 175+88.83	40.37	LT	1.0
STA. 175+93.36	30.68	RT	1.0
STA. 177+58.69	12.40	RT	1.0
TOTAL			39.0

BRIDGE WEARING SURFACE REMOVAL					Z0004560
LOCATION	LENGTH	WIDTH	AREA	AREA	
STATION TO STATION	FOOT	FOOT	SQ. FT.	SQ. YD.	
STA. 107+50.00 TO STA. 108+10.00	60.00	24.00	1440.00	160.00	
TOTAL				160.00	

CONSTRUCTION LAYOUT		Z0013798
LOCATION	UNIT	
STATION	L SUM	
ENTIRE JOB SITE	1.0	
TOTAL	1.0	

FENCE REMOVAL		Z0022800
LOCATION	LENGTH	
STATION TO STATION	FOOT	
STA. 10+93.04, 26.00' LT TO STA. 16+26.67, 28.36' LT	533.63	
STA. 14+44.76, 44.98' RT TO STA. 16+85.83, 28.87' RT	254.32	
STA. 16+26.67, 28.36' LT TO STA. 16+63.07, 29.44' LT	42.08	
STA. 17+31.52, 29.44' RT TO STA. 34+25.05, 30.12' RT	1790.80	
STA. 17+44.40, 80.00' LT TO STA. 23+48.51, 45.10' LT	631.20	
STA. 33+15.56, 44.51' LT TO STA. 34+00.15, 44.34' LT	84.59	
STA. 34+44.10, 53.00' RT TO STA. 39+71.59, 30.28' RT	547.49	
STA. 36+83.87, 45.51' LT TO STA. 37+77.22, 45.04' LT	93.35	
STA. 42+32.10, 33.21' LT TO STA. 47+44.51, 24.55' LT	549.06	
STA. 43+41.11, 31.37' RT TO STA. 47+44.32, 26.06' RT	405.76	
STA. 47+74.90, 22.80' LT TO STA. 56+42.06, 37.20' LT	876.51	
STA. 47+74.96, 25.41' RT TO STA. 51+72.90, 32.56' RT	400.39	
STA. 48+00.00, 62.00' RT TO STA. 48+11.79, 31.29' RT	32.90	
STA. 52+07.83, 31.16' RT TO STA. 57+79.39, 31.25' RT	571.56	
STA. 57+89.77, 31.01' LT TO STA. 60+05.00, 31.00' LT	215.23	
TOTAL	7028.87	

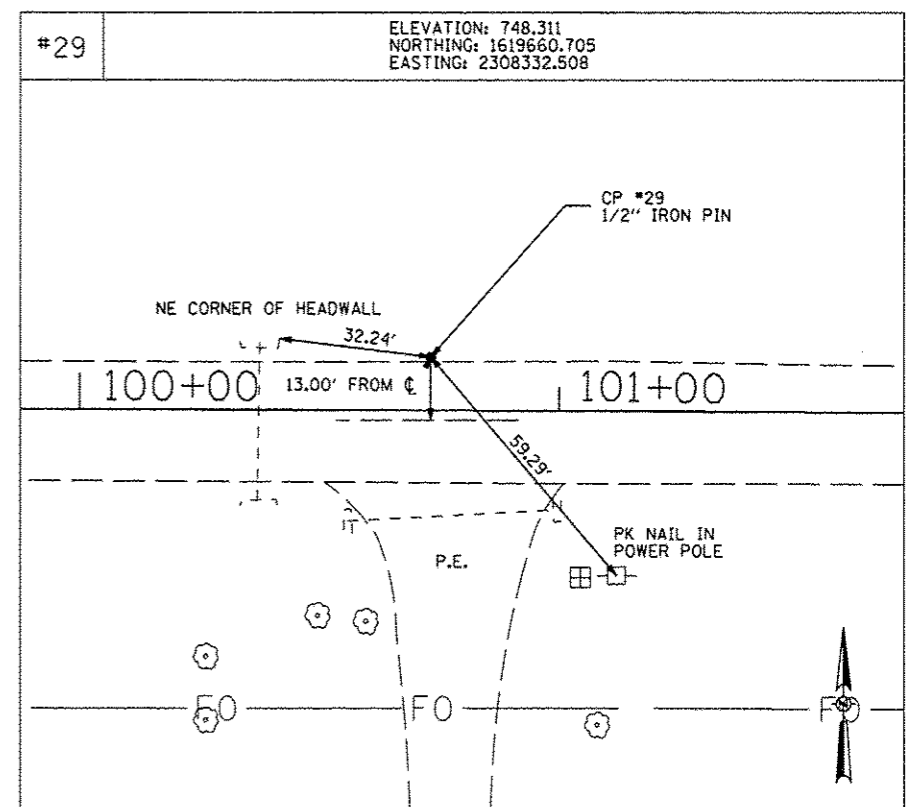
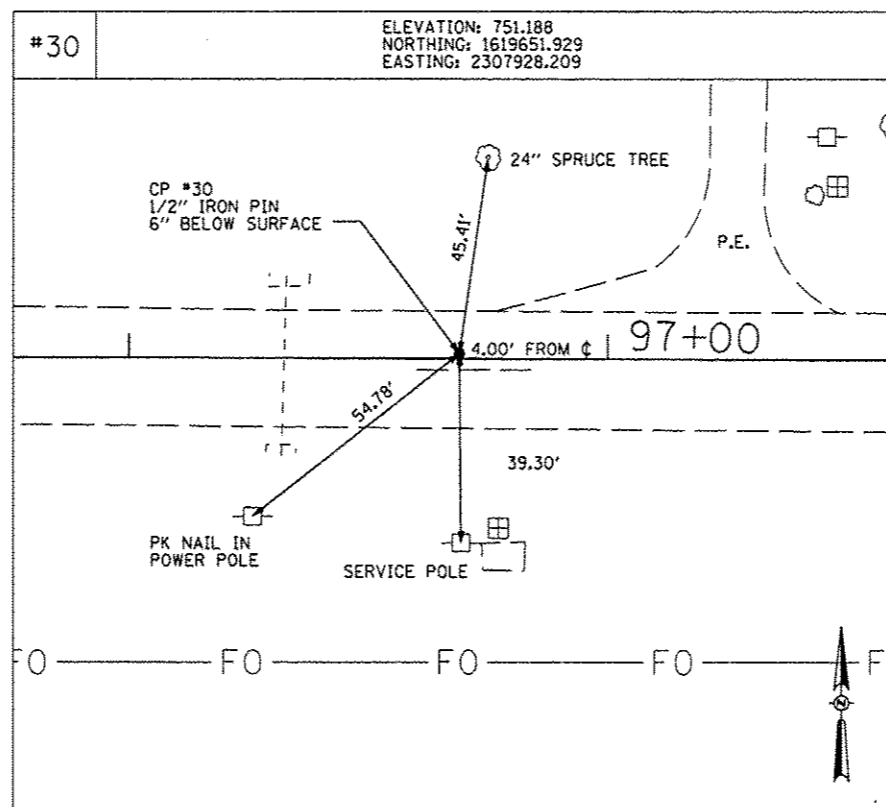
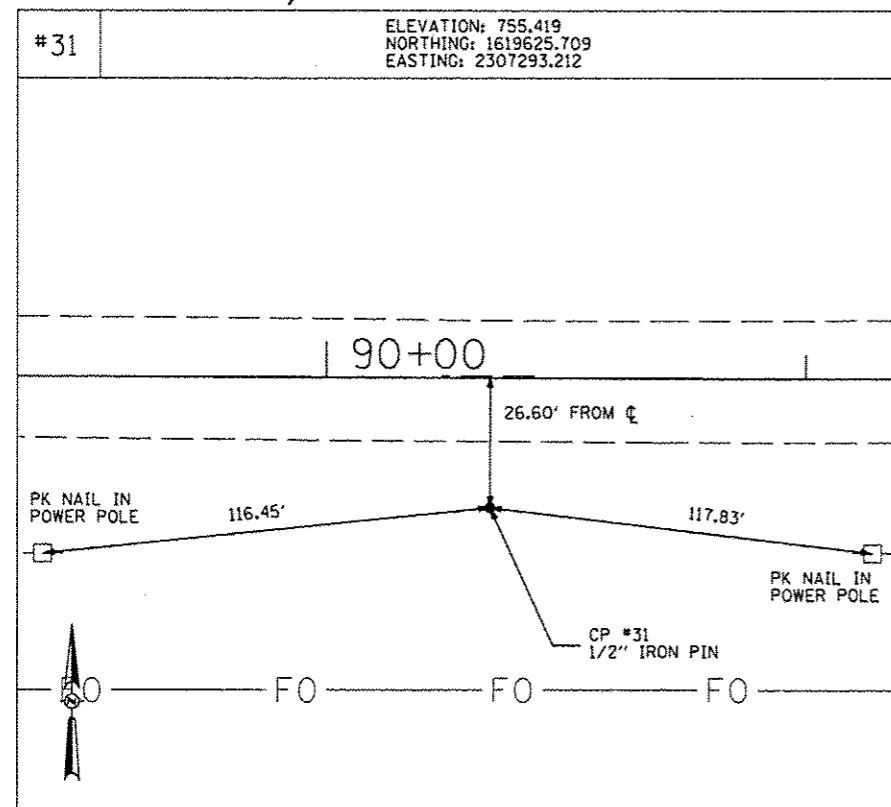
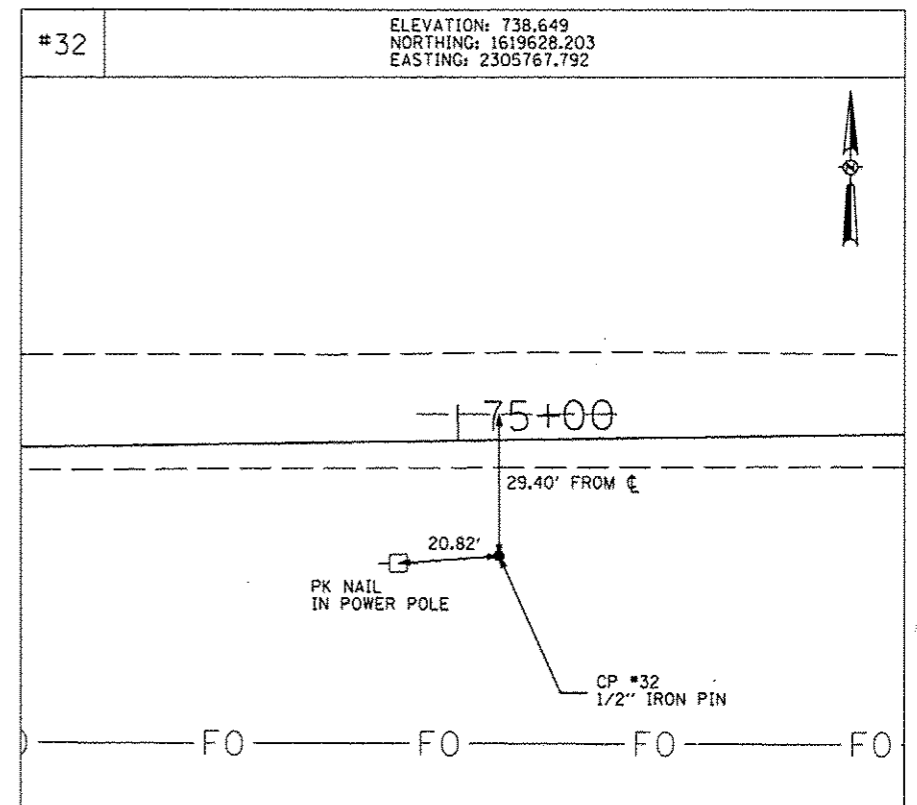
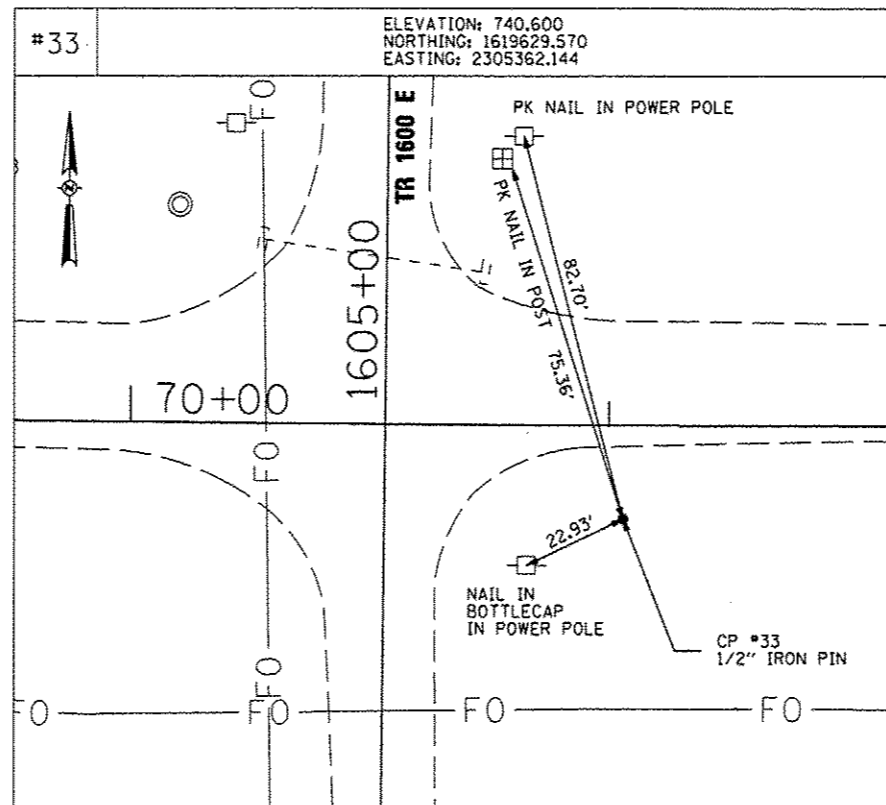
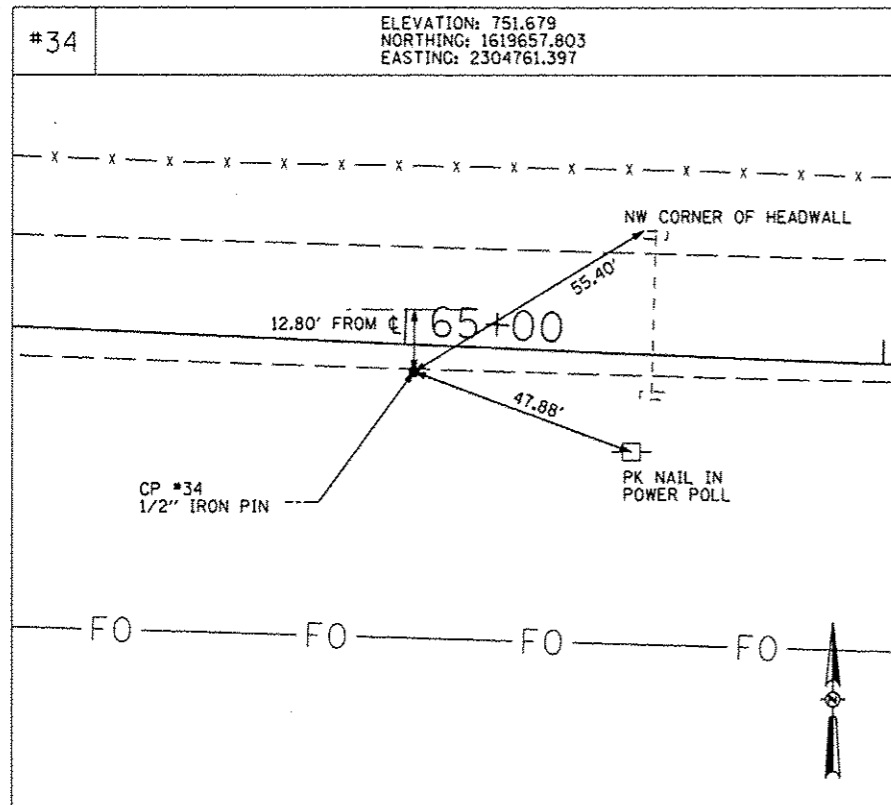
FILLING EXISTING WELLS		Z0023900
LOCATION	UNIT	
STATION	EACH	
STA. 70+09.95, 45.4' LT	1.0	
TOTAL	1.0	

RAILROAD PROTECTIVE LIABILITY INSURANCE		Z0048665
LOCATION	UNIT	
STATION	L SUM	
ENTIRE JOB SITE	1.0	
TOTAL	1.0	

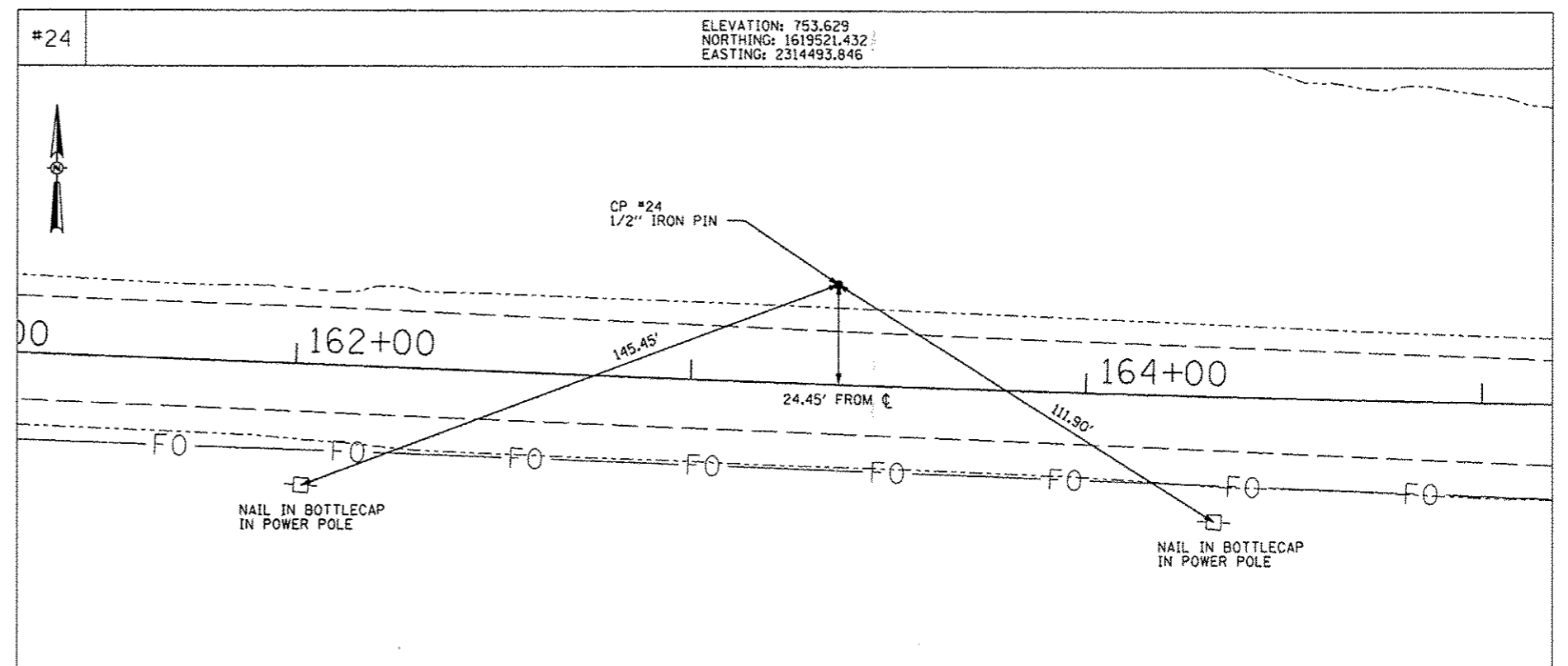
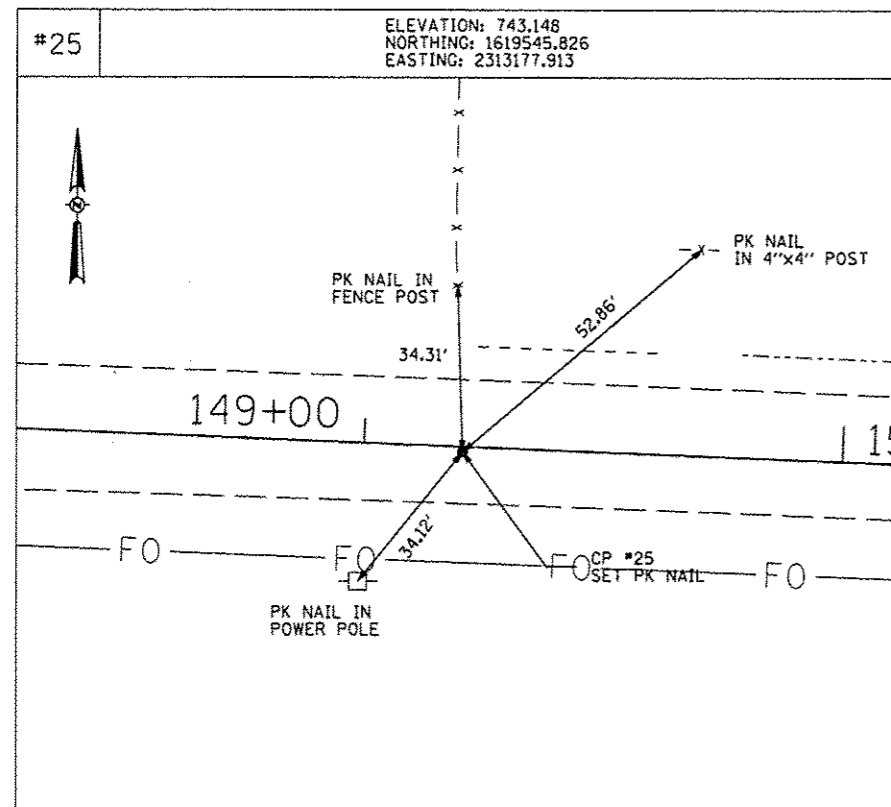
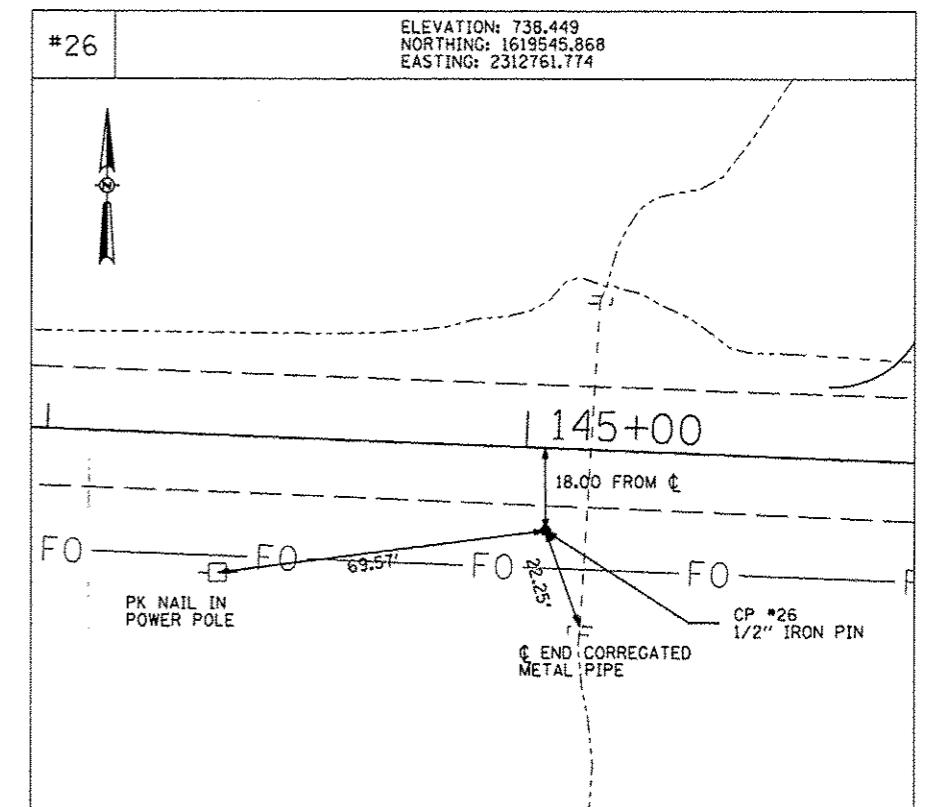
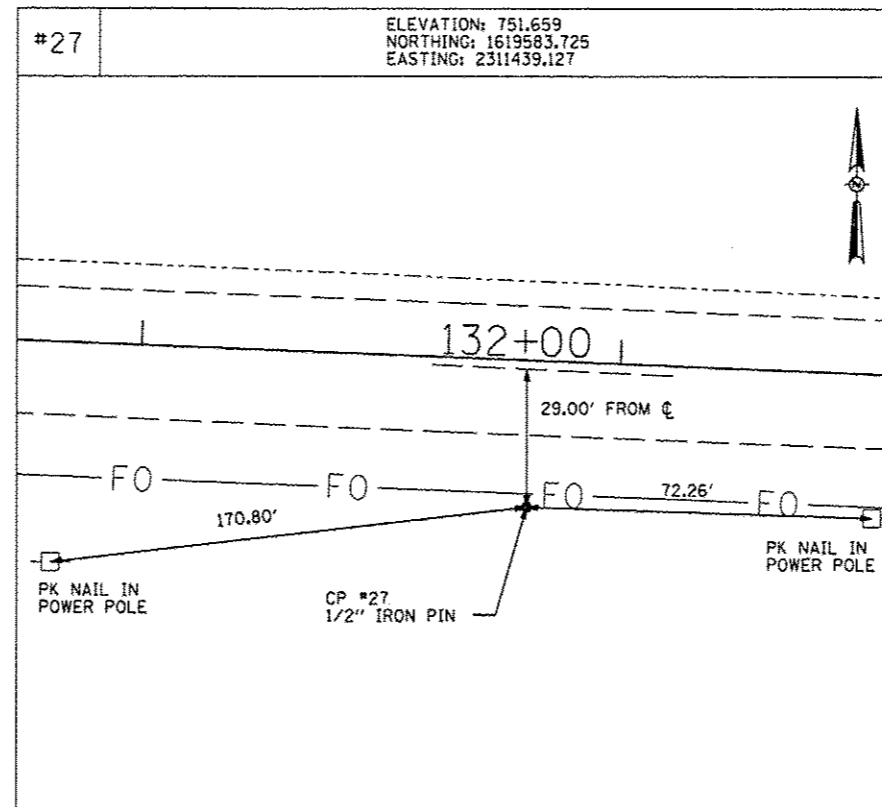
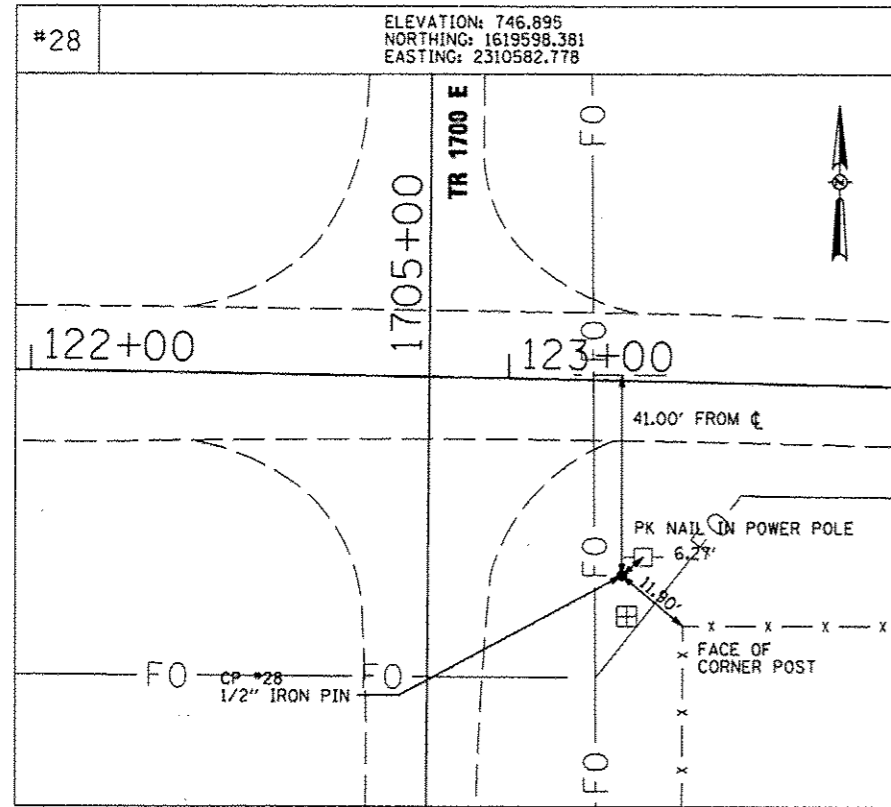
DRAINAGE STRUCTURE TO BE REMOVED								Z0018700
LOCATION	ALIGNMENT	OFFSET	LT/RT	FOR INFO ONLY				UNIT
				TYPE	SIZE	HEADWALL REMOVAL	LENGTH	
STATION	FOOT							EACH
STA. 7+07.34	COUNTY HIGHWAY #4	ACROSS CH #4		CLAY	15"	-	50.00	1.0
STA. 8+59.70	COUNTY HIGHWAY #4	ACROSS CH #4		CLAY	15"	-	50.00	1.0
STA. 9+80.79	COUNTY HIGHWAY #4	ACROSS CH #4		CLAY	15"	-	50.00	1.0
STA. 12+84.15	COUNTY HIGHWAY #4	27.63	RT	CMP	15"	-	199.70	1.0
STA. 20+10.12	COUNTY HIGHWAY #4	22.29	RT	CMP	15"	2	25.04	1.0
STA. 25+19.85	COUNTY HIGHWAY #4	20.49	LT	CMP	15"	-	22.85	1.0
STA. 26+06.32	COUNTY HIGHWAY #4	21.46	LT	CMP	15"	-	37.71	1.0
STA. 33+57.00	COUNTY HIGHWAY #4	ACROSS CH #4		CLAY	18"	2	55.69	1.0
STA. 34+37.92	COUNTY HIGHWAY #4	21.04	RT	CMP	15"	2	20.27	1.0
STA. 36+48.49	COUNTY HIGHWAY #4	20.67	RT	CMP	15"	2	34.25	1.0
STA. 37+25.21	COUNTY HIGHWAY #4	ACROSS CH #4		CLAY	18"	2	36.71	1.0
STA. 46+54.76	COUNTY HIGHWAY #4	18.86	LT	CMP	15"	2	15.44	1.0
STA. 48+18.39	COUNTY HIGHWAY #4	19.54	RT	CMP	15"	2	28.41	1.0
STA. 52+36.59	COUNTY HIGHWAY #4	ACROSS CH #4		CLAY	18"	2	34.74	1.0
STA. 57+49.30	COUNTY HIGHWAY #4	18.93	LT	CMP	15"	-	35.75	1.0
STA. 58+09.95	COUNTY HIGHWAY #4	20.39	RT	CMP	15"	-	49.07	1.0
STA. 62+91.61	COUNTY HIGHWAY #4	14.08	RT	CMP	15"	-	32.97	1.0
STA. 65+51.75	COUNTY HIGHWAY #4	ACROSS CH #4		CMP	18"	2	33.43	1.0
STA. 72+90.00	COUNTY HIGHWAY #4	ACROSS CH #4		CONC BOX	2' X 2'	2	30.24	1.0
STA. 76+68.00	COUNTY HIGHWAY #4	ACROSS CH #4		CONC BOX	4' X 4'	2	40.06	1.0
STA. 85+53.82	COUNTY HIGHWAY #4	20.14	LT	CMP	15"	-	27.85	1.0
STA. 87+79.00	COUNTY HIGHWAY #4	ACROSS CH #4		CONC BOX	2' X 2'	2	32.76	1.0
STA. 92+60.21	COUNTY HIGHWAY #4	18.6	RT	CMP	15"	2	19.96	1.0
STA. 93+35.47	COUNTY HIGHWAY #4	ACROSS CH #4		CLAY	18"	2	33.63	1.0
STA. 96+32.45	COUNTY HIGHWAY #4	ACROSS CH #4		CLAY	18"	2	37.61	1.0
STA. 99+41.93	COUNTY HIGHWAY #4	16.37	LT	CMP	15"	-	33.14	1.0
STA. 100+00.00	COUNTY HIGHWAY #4	ACROSS CH #4		CLAY	18"	2	34.03	1.0
STA. 100+78.00	COUNTY HIGHWAY #4	21.87	RT	CMP	15"	2	21.87	1.0
STA. 102+41.86	COUNTY HIGHWAY #4	20.46	RT	CMP	15"	2	42.28	1.0
STA. 109+01.72	COUNTY HIGHWAY #4	22.19	RT	CMP	15"	-	40.17	1.0
STA. 118+78.78	COUNTY HIGHWAY #4	ACROSS CH #4		CMP	42"	-	80.22	1.0
STA. 125+82.23	COUNTY HIGHWAY #4	ACROSS CH #4		CMP	30"	-	74.52	1.0
STA. 128+50.84	COUNTY HIGHWAY #4	22.06	RT	CMP	15"	-	28.54	1.0
STA. 129+79.65	COUNTY HIGHWAY #4	22.02	RT	CMP	15"	-	31.27	1.0
STA. 134+81.82	COUNTY HIGHWAY #4	ACROSS CH #4		CLAY	18"	2	31.23	1.0
STA. 137+44.71	COUNTY HIGHWAY #4	ACROSS CH #4		CLAY	18"	2	31.94	1.0
STA. 145+13.47	COUNTY HIGHWAY #4	ACROSS CH #4		CMP	30"	2	69.00	1.0
STA. 145+68.45	COUNTY HIGHWAY #4	21.22	LT	CMP	15"	-	26.21	1.0
STA. 149+41.63	COUNTY HIGHWAY #4	21.06	LT	CMP	15"	-	37.31	1.0
STA. 151+72.10	COUNTY HIGHWAY #4	ACROSS CH #4		CONC BOX	2' X 2'	2	30.28	1.0
STA. 161+00.98	COUNTY HIGHWAY #4	19.01	LT	CMP	15"	-	18.61	1.0
STA. 175+31.86	COUNTY HIGHWAY #4	ACROSS CH #4		CLAY	24"	2	56.80	1.0
STA. 177+68.92	COUNTY HIGHWAY #4	ACROSS CH #4		CLAY	18"	2	42.59	1.0
STA. 1603+75.00	TR 1600 E	ACROSS TR 1600E		CMP	18"	2	29.28	1.0
STA. 1605+34.75	TR 1600 E	ACROSS TR 1600E		CMP	24"	2	46.87	1.0
STA. 1606+22.00	TR 1600 E	18.21	LT	CMP	15"	-	21.67	1.0
TOTAL							46.0	

ROCK FILL						Z0054400
LOCATION	LENGTH	WIDTH	DEPTH	VOLUME	VOLUME	
STATION	FOOT	FOOT	FOOT	CU. FT.	CU. YD.	
UNDER THE BOX CULVERTS & END SECTIONS						
BOX CULVERT STA. 145+12.89	78	9	2.5	1755	65.00	
* CONTINGENT QUANTITY	300	3	2.0	1800	66.67	
TOTAL					131.67	

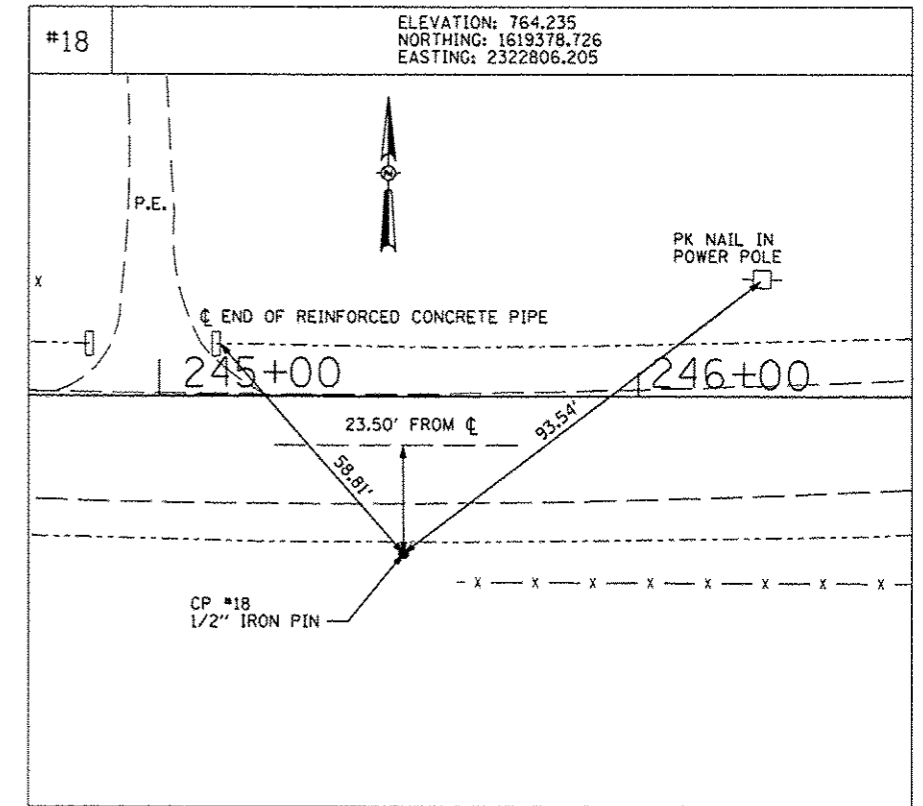
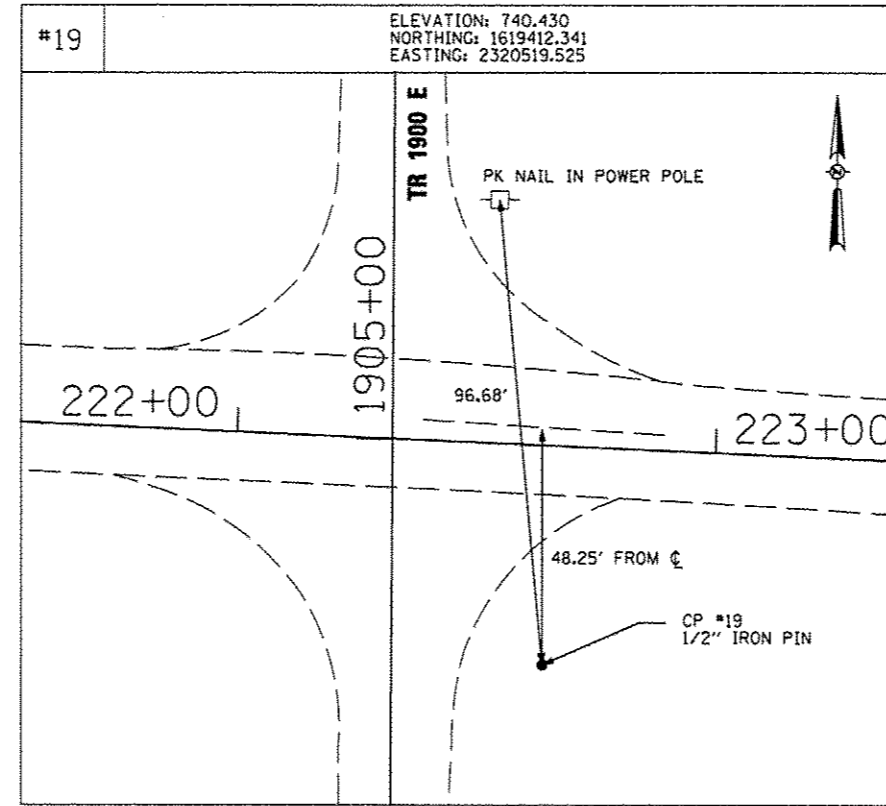
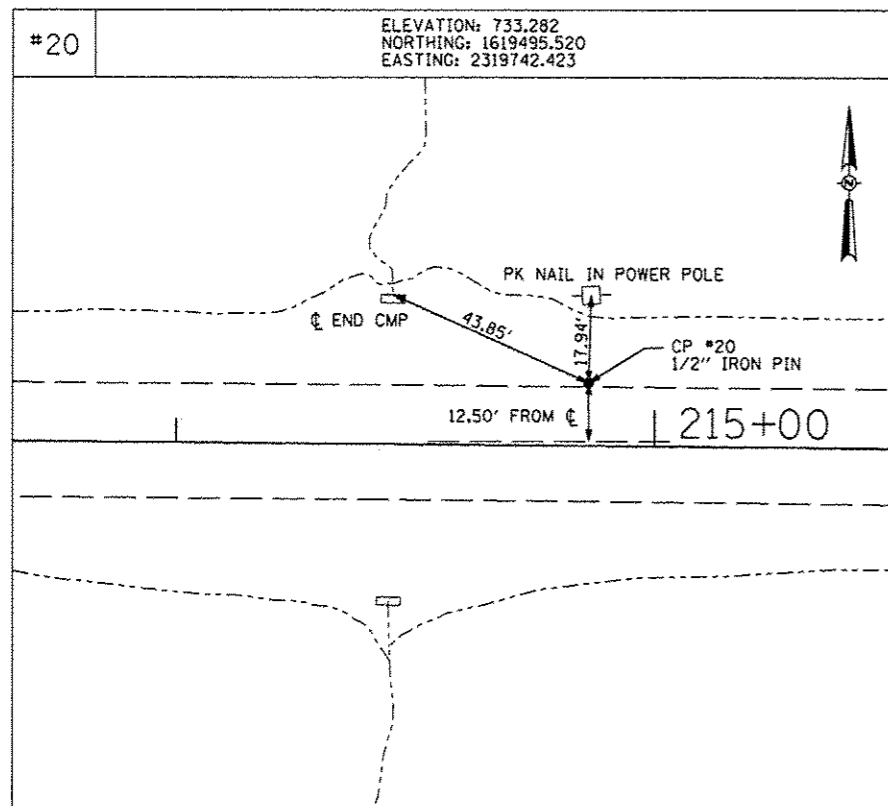
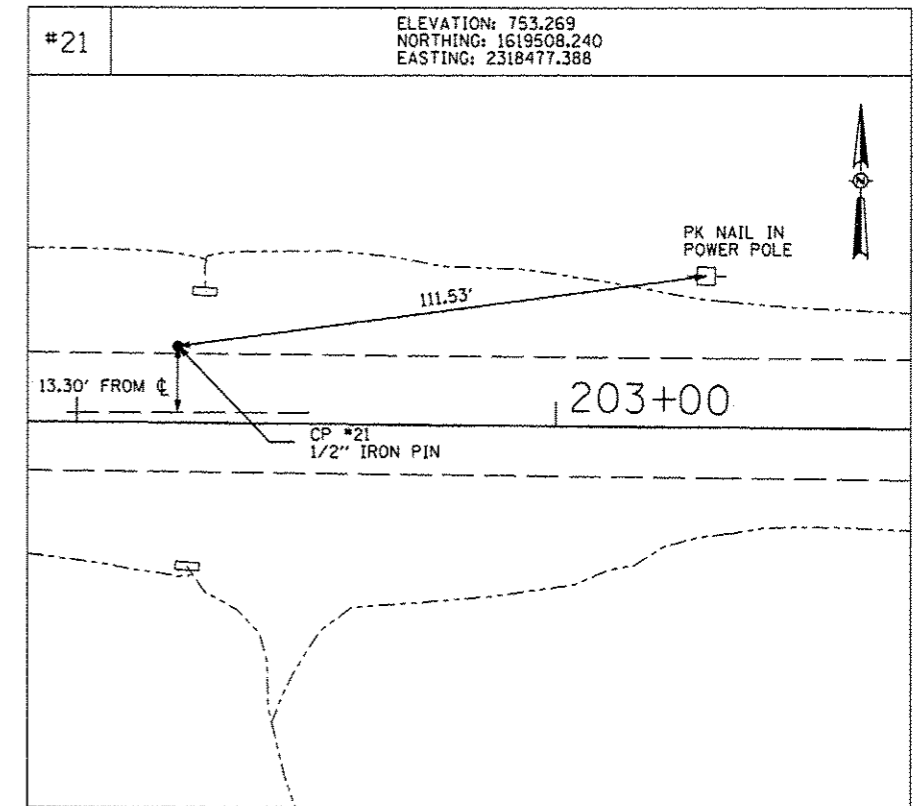
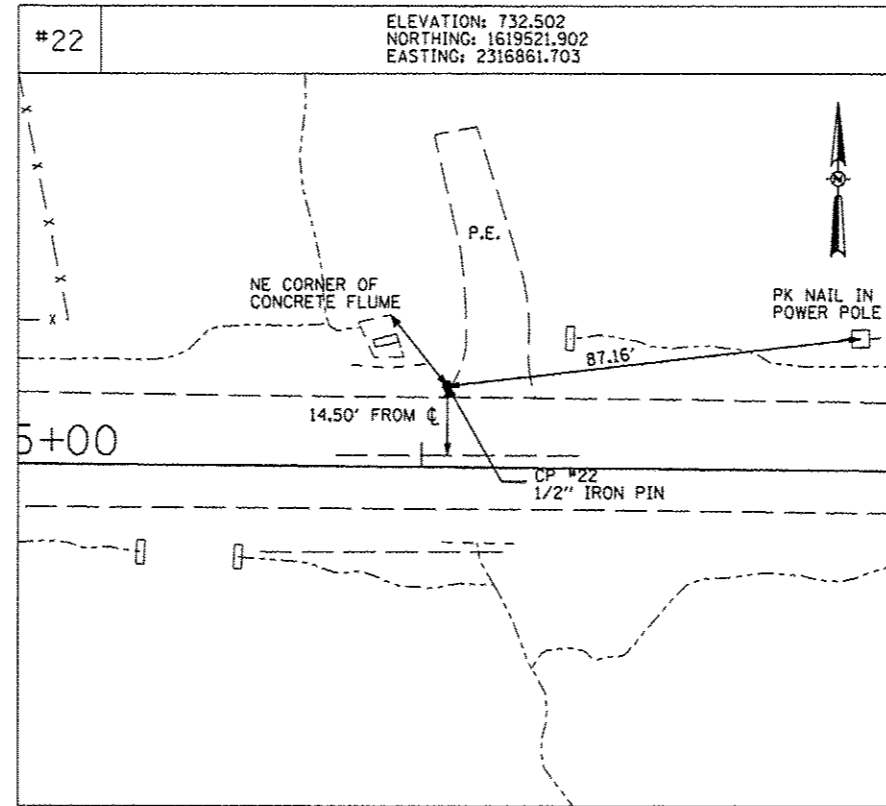
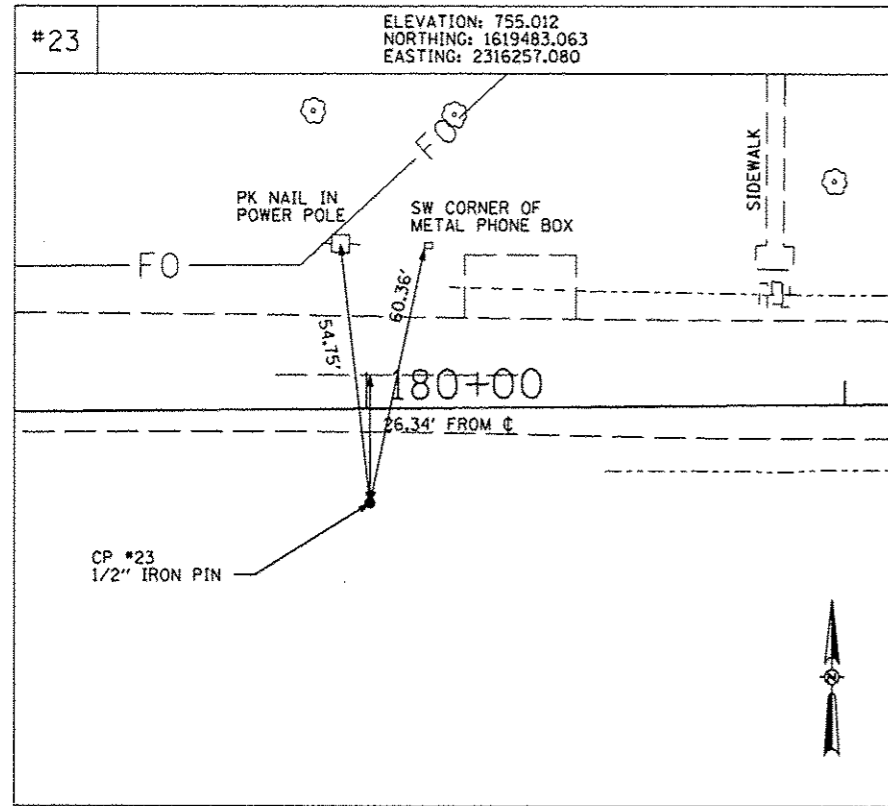
* CONTINGENT QUANTITIES ARE APPROXIMATE. ACTUAL QUANTITY WILL BE DETERMINED BY RESIDENT ENGINEER IN THE FIELD AT THE TIME OF WORK. FINAL QUANTITY MAY VARY SIGNIFICANTLY.

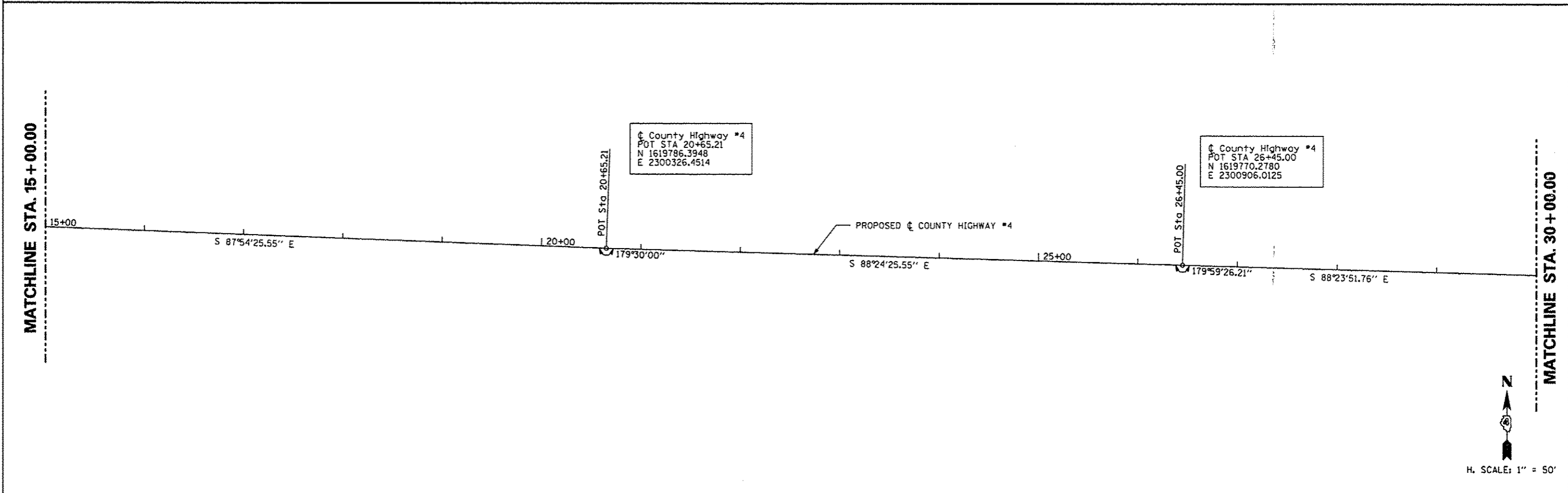
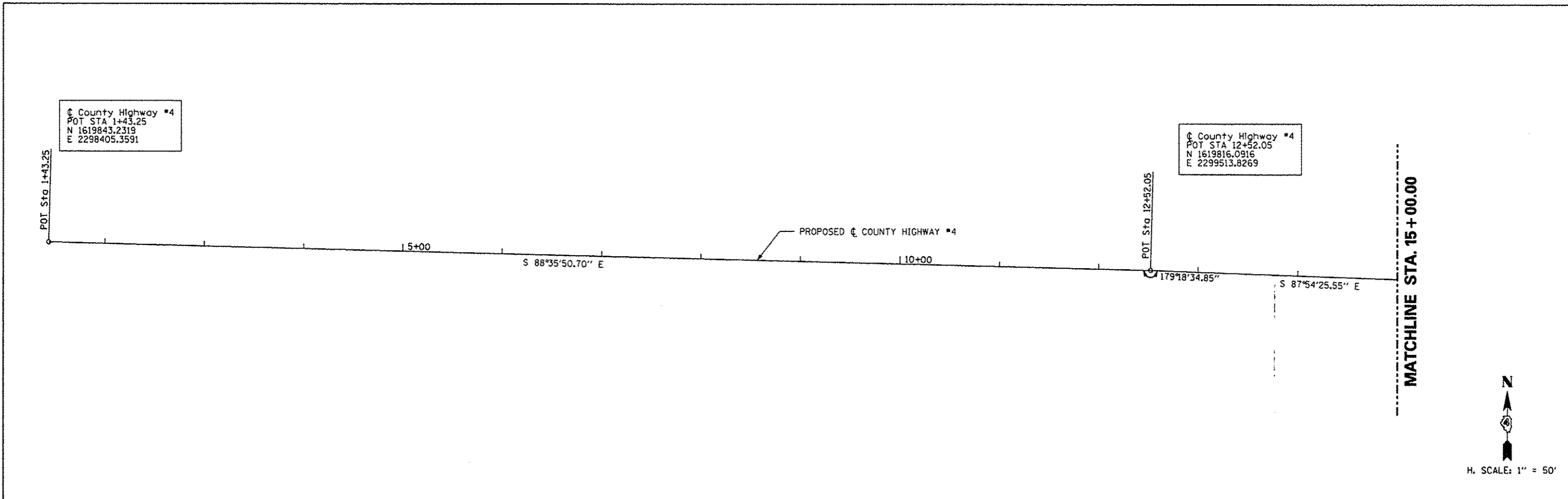


FILE NAME	USER NAME * USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL & VERTICAL CONTROL	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			393	12-00001-01-R5	KNOX	174	20	
		CHECKED -	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614			
		DATE - MARCH 2013	REVISED -			FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT R5-0393 (105)					
				SCALE:		SHEET NO. 20 OF 174 SHEETS		STA.		TO STA.	

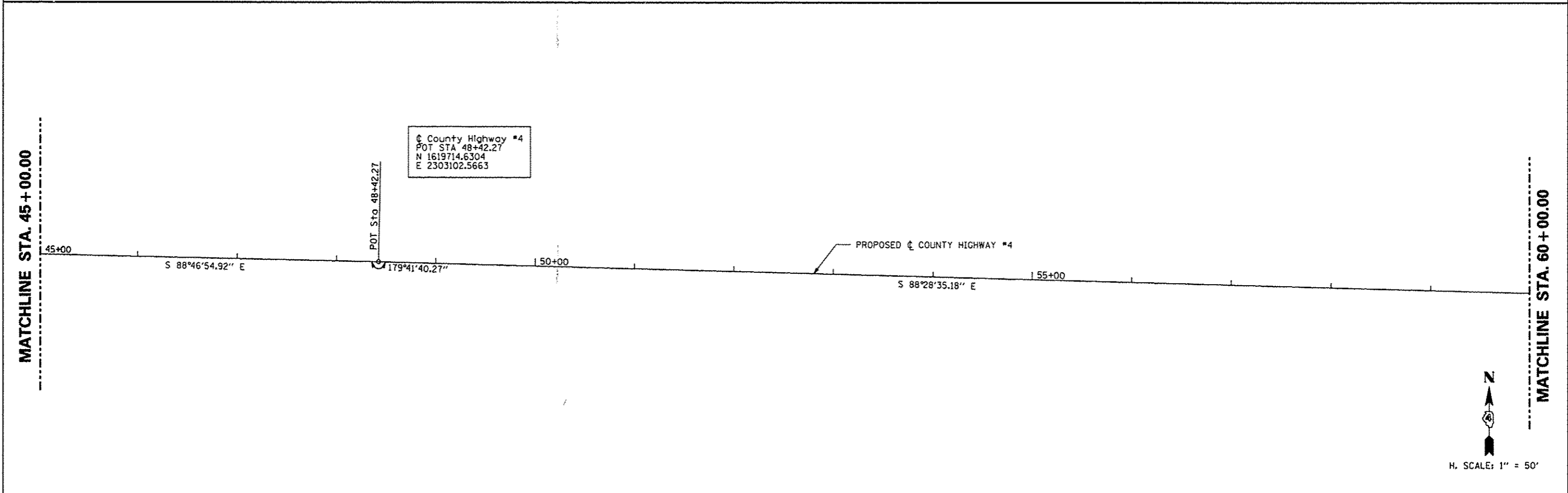
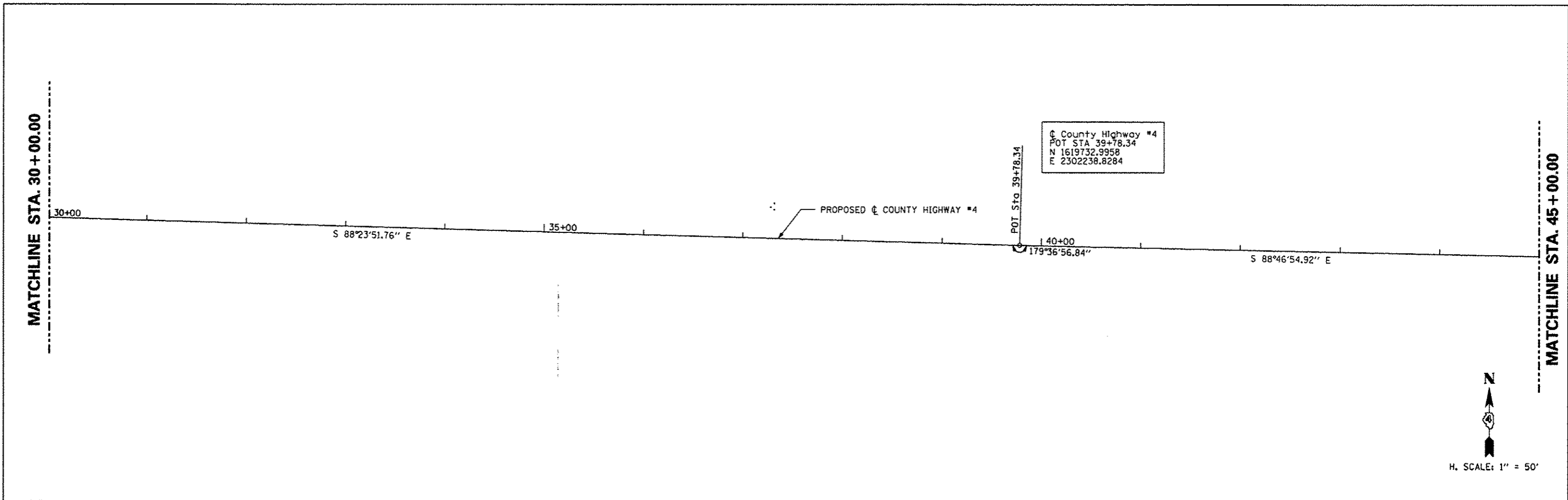


FILE NAME *	USER NAME * #USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL & VERTICAL CONTROL	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILE#		DRAWN -	REVISED -			393	12-00001-01-RS	KNOX	174	21
		CHECKED -	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614		
		DATE - MARCH 2013	REVISED -			FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT RS-0393 (105)		
				SCALE:	SHEET NO. 21 OF 174 SHEETS	STA.	TO STA.			

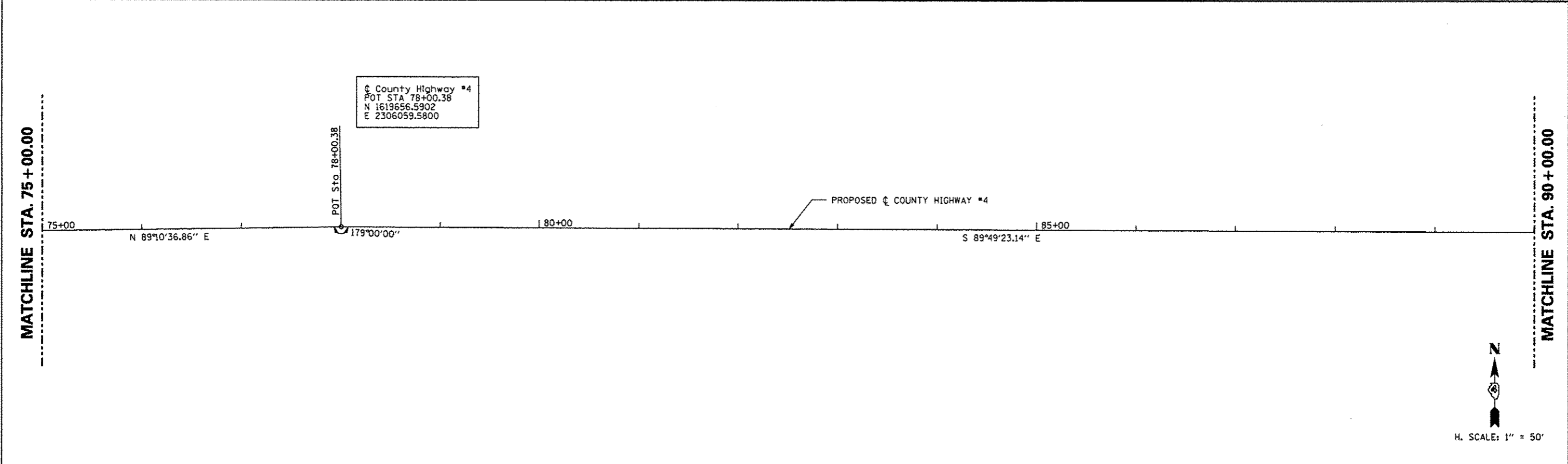
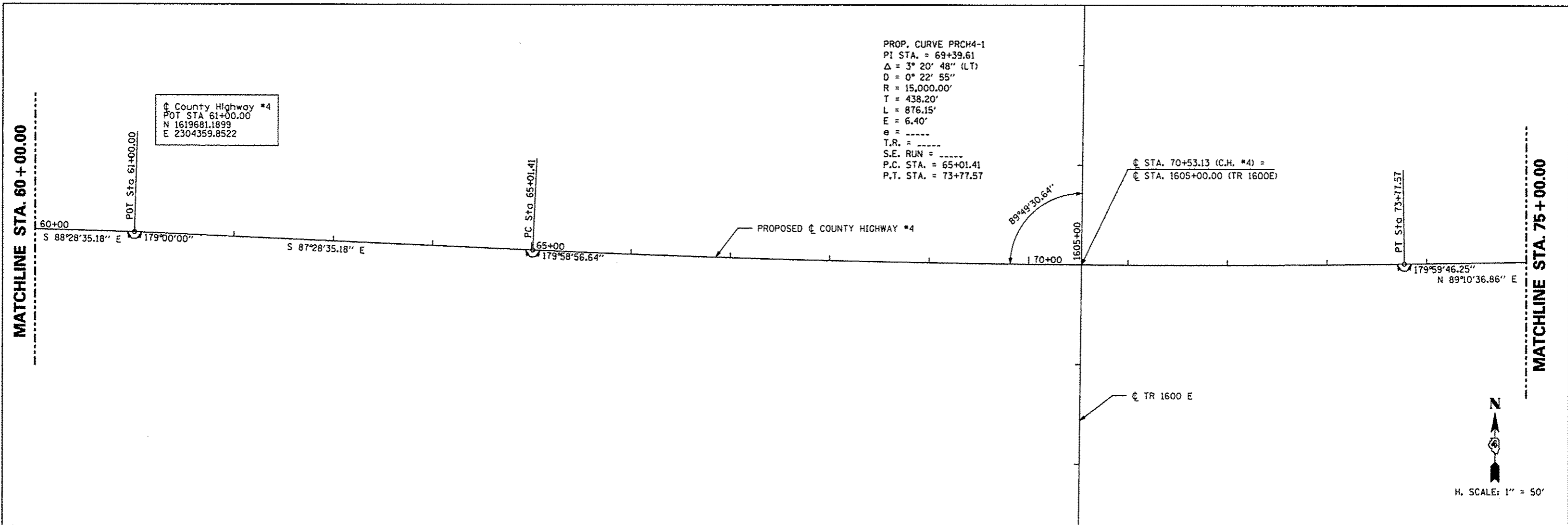




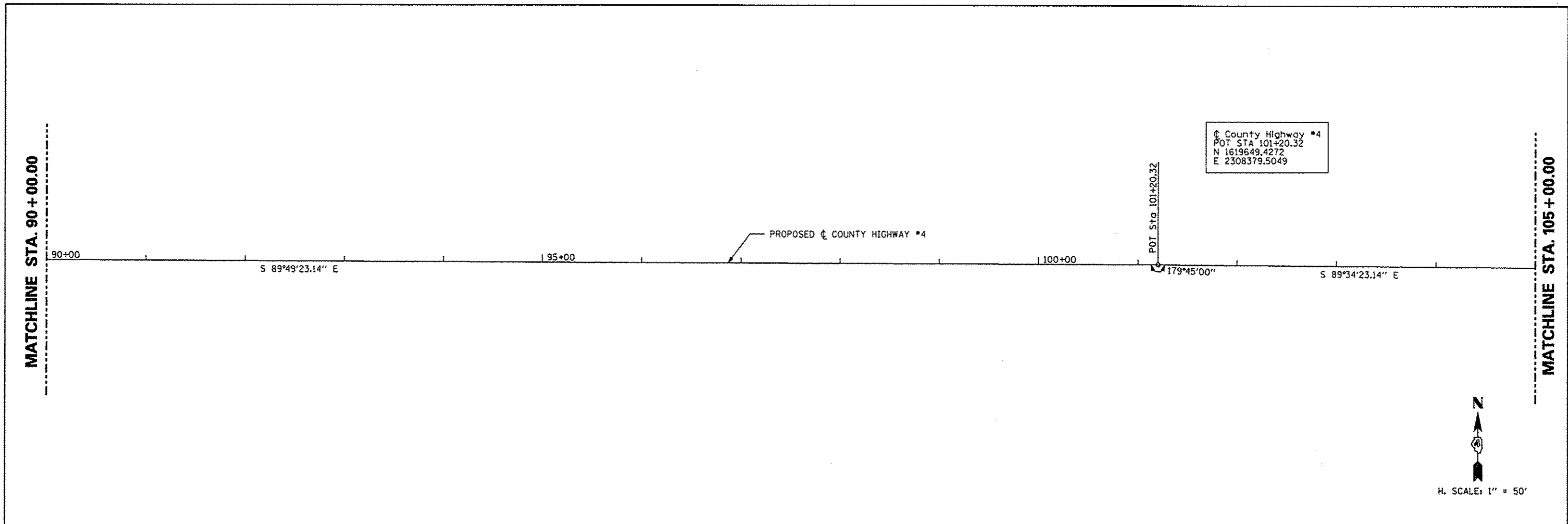
FILE NAME *	USER NAME * #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY ALIGNMENT	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			393	12-00001-01-RS	KNOX	174	23	
		CHECKED -	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614			
		DATE - MARCH 2013	REVISED -			SCALE: 1" = 50'		SHEET NO. 23 OF 174 SHEETS		STA. 1+43.25 TO STA. 30+00.00	



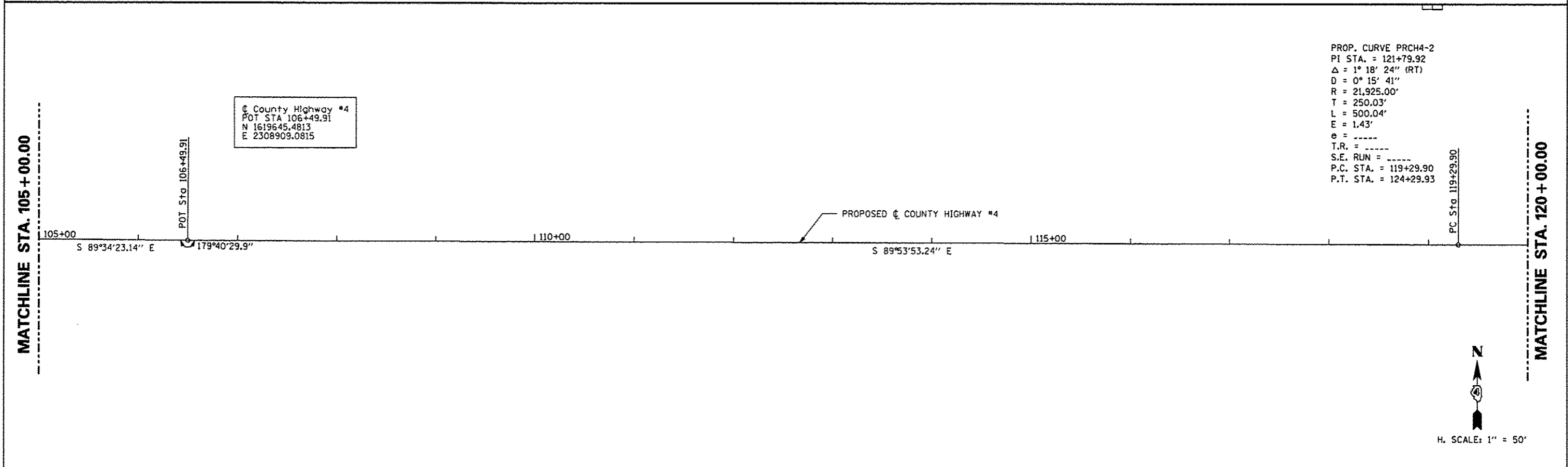
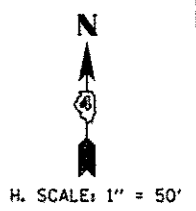
FILE NAME *	USER NAME * #USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY ALIGNMENT	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -			393	12-00001-01-RS	KNOX	174	24
		CHECKED -	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614		
		DATE - MARCH 2013	REVISED -			FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (105)				
				SCALE: 1" = 50'		SHEET NO. 24 OF 174 SHEETS		STA. 30+00.00 TO STA. 60+00.00		



FILE NAME *	USER NAME * #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY ALIGNMENT	F.A. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			393	12-00001-01-RS	KNOX	174	25	
		CHECKED -	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614			
		DATE - MARCH 2013	REVISED -			SCALE: 1" = 50'		SHEET NO. 25 OF 174 SHEETS		STA. 60+00.00 TO STA. 90+00.00	

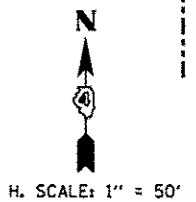


Ⓢ County Highway #4
 POT STA 101+20.32
 N 1619649.4272
 E 2308379.5049



Ⓢ County Highway #4
 POT STA 106+49.91
 N 1619645.4813
 E 2308909.0815

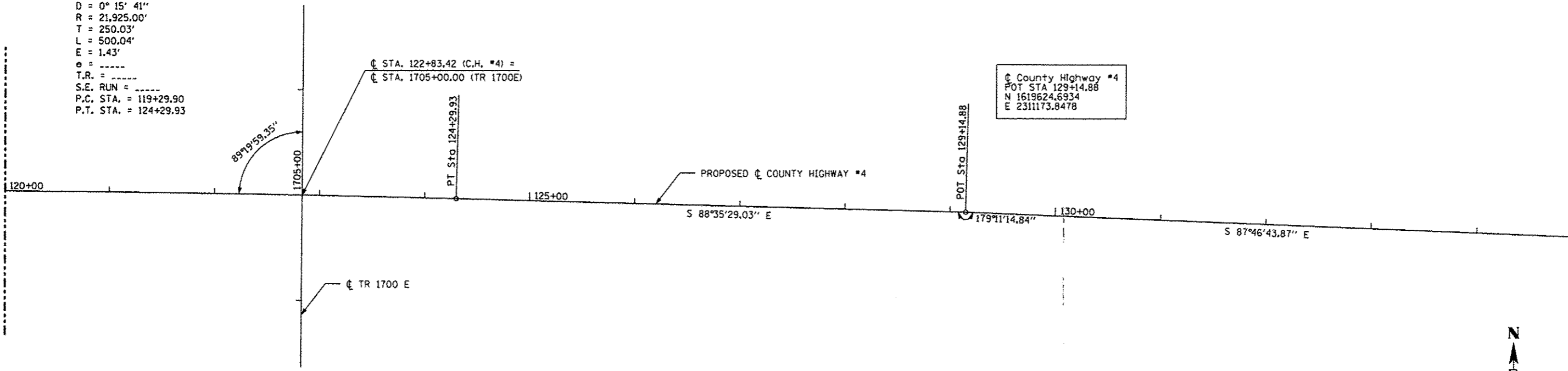
PROP. CURVE PRCH4-2
 PI STA. = 121+79.92
 Δ = 1° 18' 24" (RT)
 D = 0° 15' 41"
 R = 21,925.00'
 T = 250.03'
 L = 500.04'
 E = 1.43'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 119+29.90
 P.T. STA. = 124+29.93



FILE NAME * #FILE#	USER NAME * #USER#	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY ALIGNMENT	F.A. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - ---	REVISED - ---			393	12-00001-01-RS	KNOX	174	26	
		CHECKED - ---	REVISED - ---			COUNTY HIGHWAY #4		CONTRACT NO. 89614			
		DATE - MARCH 2013	REVISED - ---			SCALE: 1" = 50'		SHEET NO. 26 OF 174 SHEETS		STA. 90+00.00 TO STA. 120+00.00	

PROP. CURVE PRCH4-2
 PI STA. = 121+79.92
 $\Delta = 1^\circ 18' 24''$ (RT)
 $D = 0^\circ 15' 41''$
 $R = 21,925.00'$
 $T = 250.03'$
 $L = 500.04'$
 $E = 1.43'$
 $\phi = \text{-----}$
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 119+29.90
 P.T. STA. = 124+29.93

MATCHLINE STA. 120 + 00.00



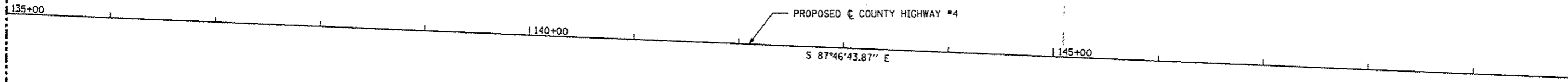
☉ County Highway #4
 POT STA 129+14.88
 N 1619624.6934
 E 2311173.8478

MATCHLINE STA. 135 + 00.00



H. SCALE: 1" = 50'

MATCHLINE STA. 135 + 00.00



MATCHLINE STA. 150 + 00.00



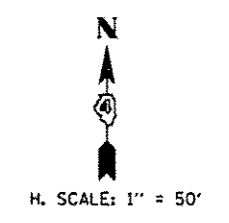
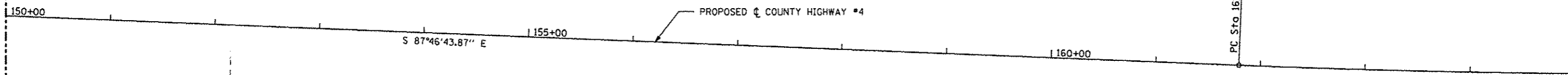
H. SCALE: 1" = 50'

FILE NAME * #FILE#	USER NAME * #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY ALIGNMENT	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE * #SCALE#	DRAWN -	REVISED -			393	12-00001-01-RS	KNOX	174	27
	PLOT DATE * #DATE#	CHECKED -	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614		STA. 120+00.00 TO STA. 150+00.00
				SCALE: 1" = 50'		SHEET NO. 27 OF 174 SHEETS		FED. ROAD DIST. NO. 4 [ILLINOIS] FED. AID PROJECT RS-0393 (105)		

PROP. CURVE PRCH4-3
 PI STA. = 164+45.42
 Δ = 2° 46' 13" (LT)
 D = 0° 31' 15"
 R = 11,000.00'
 T = 265.98'
 L = 531.87'
 E = 3.22'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 161+79.44
 P.T. STA. = 167+11.30

MATCHLINE STA. 150 + 00.00

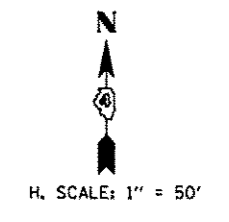
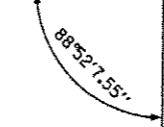
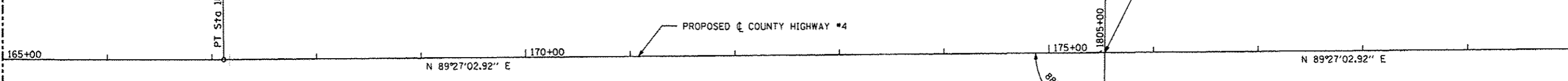
MATCHLINE STA. 165 + 00.00



PROP. CURVE PRCH4-3
 PI STA. = 164+45.42
 Δ = 2° 46' 13" (LT)
 D = 0° 31' 15"
 R = 11,000.00'
 T = 265.98'
 L = 531.87'
 E = 3.22'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 161+79.44
 P.T. STA. = 167+11.30

MATCHLINE STA. 165 + 00.00

MATCHLINE STA. 180 + 00.00



FILE NAME *	USER NAME * USER#	DESIGNED -	REVISED -
#FILE#		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - MARCH 2013	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ROADWAY ALIGNMENT

SCALE: 1" = 50' SHEET NO. 28 OF 174 SHEETS STA. 150+00.00 TO STA. 180+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	I2-00001-01-R5	KNDX	174	28
COUNTY HIGHWAY #4		CONTRACT NO. 89614		
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT R5-0393 (105)				

MATCHLINE STA. 180 + 00.00

MATCHLINE STA. 195 + 00.00

Ⓢ County Highway #4
 POT STA 184+00.12
 N 1619506.5982
 E 2316656.4487



H. SCALE: 1" = 50'

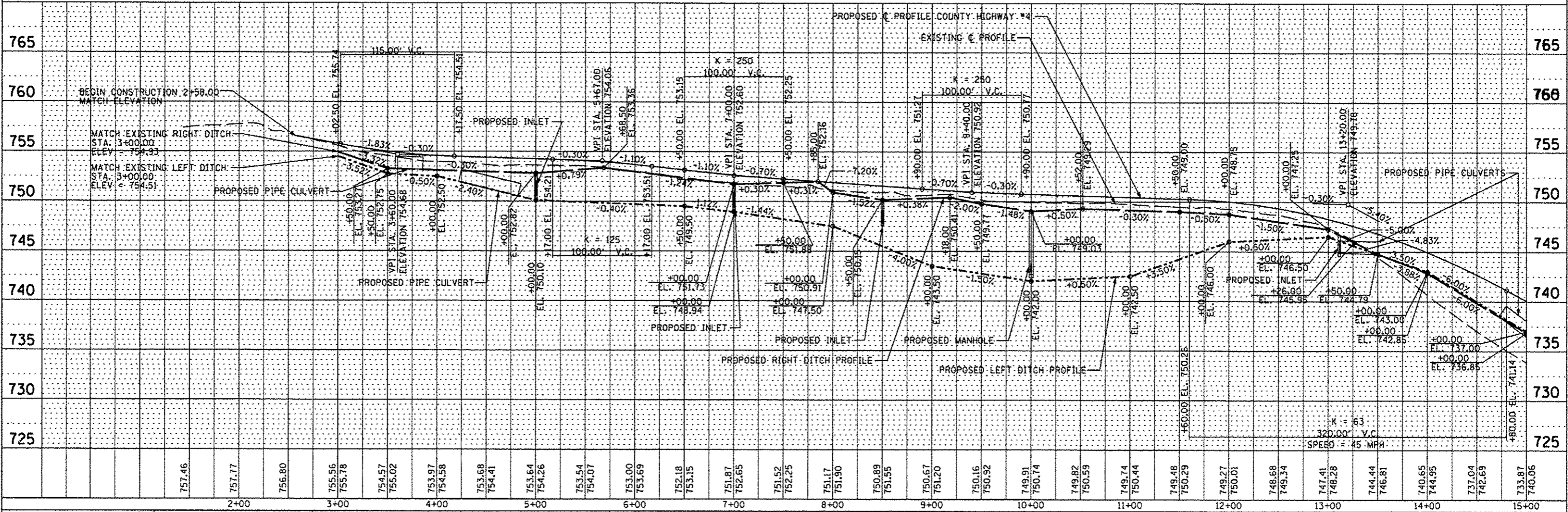
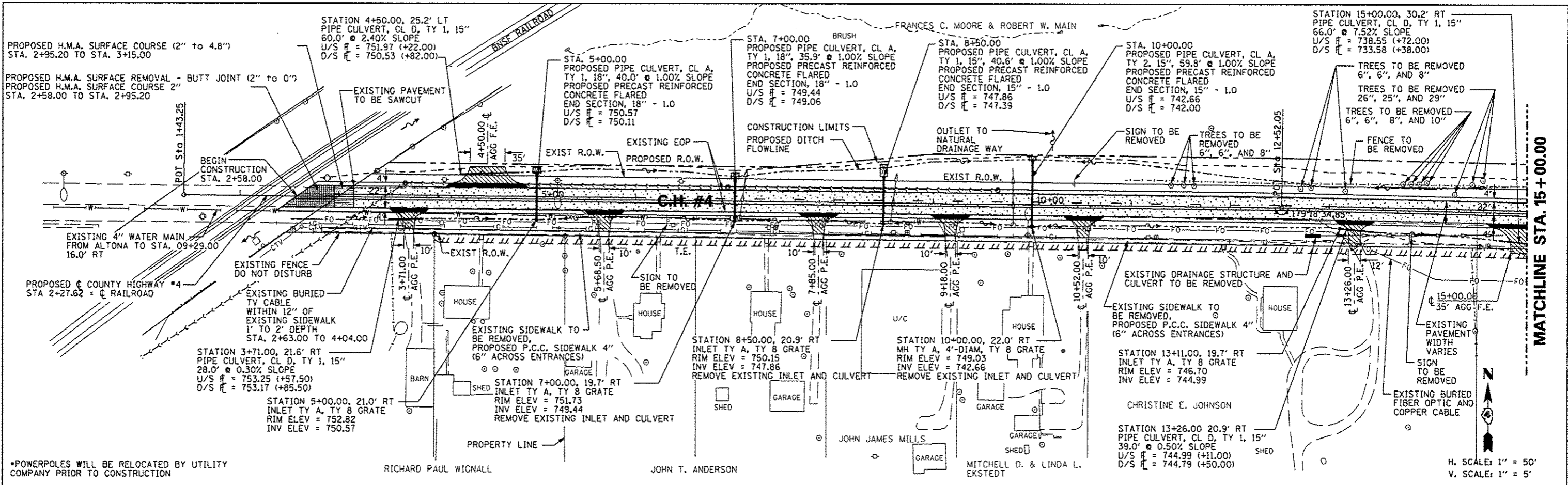
FILE NAME * #FILE#	USER NAME * #USER#	DESIGNED - ---	REVISED - ---
		DRAWN - ---	REVISED - ---
	PLOT SCALE * #SCALE#	CHECKED - ---	REVISED - ---
	PLOT DATE * #DATE#	DATE - MARCH 2013	REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY ALIGNMENT

SCALE: 1" = 50' SHEET NO. 29 OF 174 SHEETS STA. 180+00.00 TO STA. 195+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	29
COUNTY HIGHWAY #4		CONTRACT NO. 89614		
FED. ROAD DIST. NO. 4 (ILLINOIS) FED. AID PROJECT RS-0393 (105)				

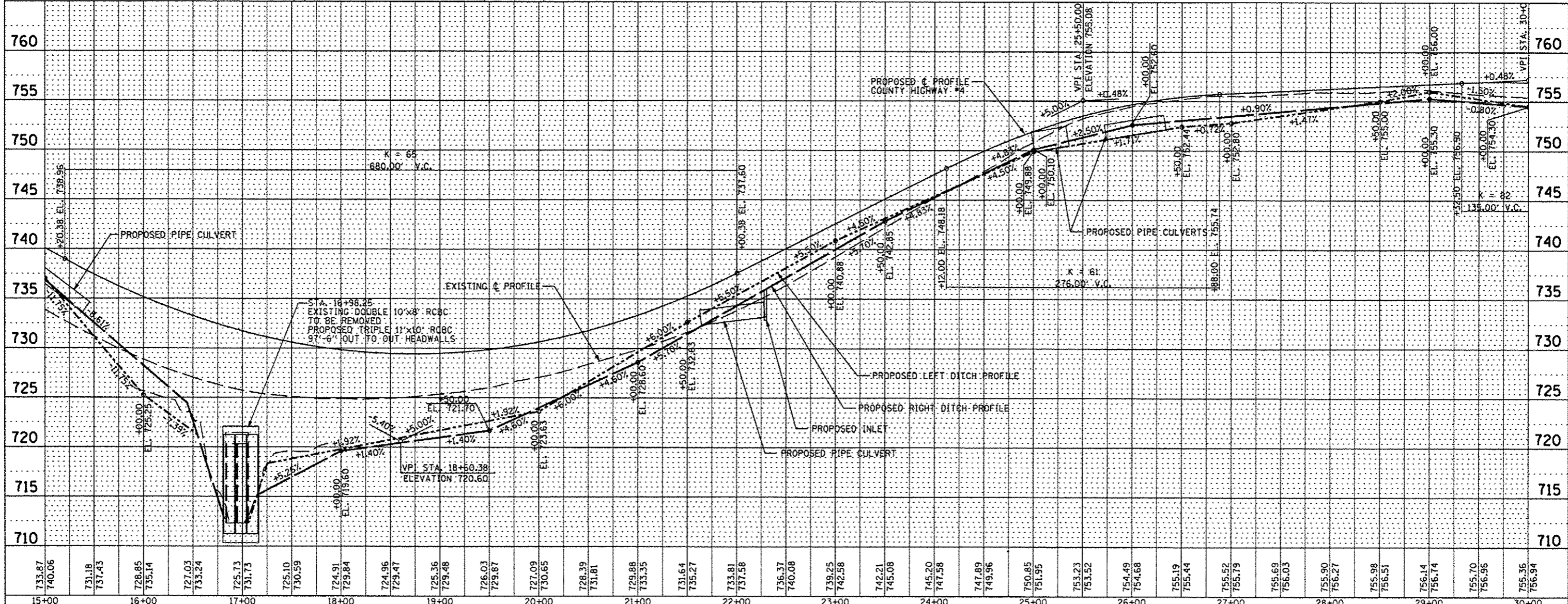
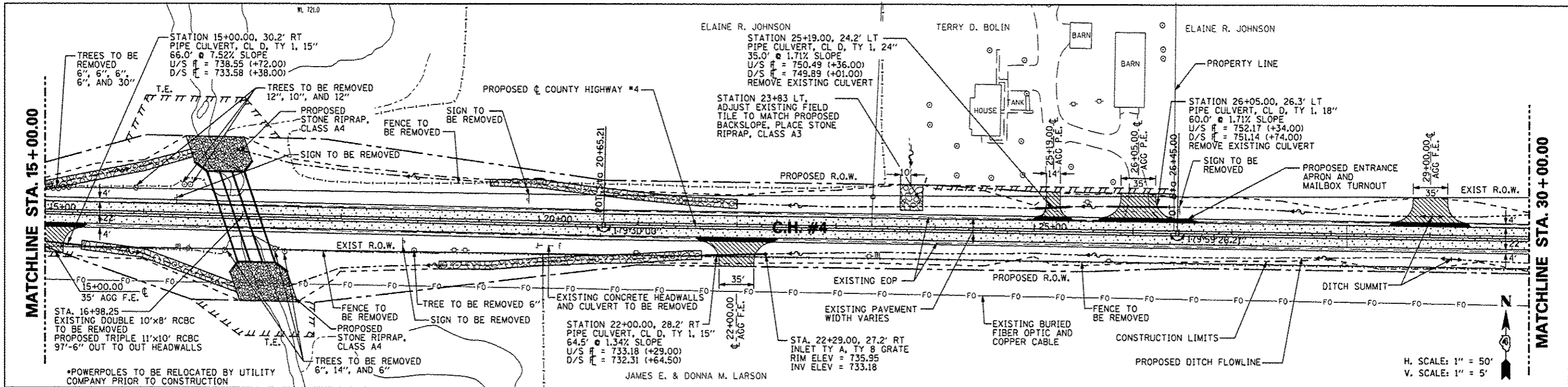


DATE	
BY	
REVISIONS	
NO.	DESCRIPTION
1	ALIGNED CHECKED
2	FILED
3	FILED
4	FILED
5	FILED
6	FILED
7	FILED
8	FILED
9	FILED
10	FILED
11	FILED
12	FILED
13	FILED
14	FILED
15	FILED
16	FILED
17	FILED
18	FILED
19	FILED
20	FILED
21	FILED
22	FILED
23	FILED
24	FILED
25	FILED
26	FILED
27	FILED
28	FILED
29	FILED
30	FILED
31	FILED
32	FILED
33	FILED
34	FILED
35	FILED
36	FILED
37	FILED
38	FILED
39	FILED
40	FILED
41	FILED
42	FILED
43	FILED
44	FILED
45	FILED
46	FILED
47	FILED
48	FILED
49	FILED
50	FILED
51	FILED
52	FILED
53	FILED
54	FILED
55	FILED
56	FILED
57	FILED
58	FILED
59	FILED
60	FILED
61	FILED
62	FILED
63	FILED
64	FILED
65	FILED
66	FILED
67	FILED
68	FILED
69	FILED
70	FILED
71	FILED
72	FILED
73	FILED
74	FILED
75	FILED
76	FILED
77	FILED
78	FILED
79	FILED
80	FILED
81	FILED
82	FILED
83	FILED
84	FILED
85	FILED
86	FILED
87	FILED
88	FILED
89	FILED
90	FILED
91	FILED
92	FILED
93	FILED
94	FILED
95	FILED
96	FILED
97	FILED
98	FILED
99	FILED
100	FILED

DATE	
BY	
REVISIONS	
NO.	DESCRIPTION
1	ALIGNED CHECKED
2	FILED
3	FILED
4	FILED
5	FILED
6	FILED
7	FILED
8	FILED
9	FILED
10	FILED
11	FILED
12	FILED
13	FILED
14	FILED
15	FILED
16	FILED
17	FILED
18	FILED
19	FILED
20	FILED
21	FILED
22	FILED
23	FILED
24	FILED
25	FILED
26	FILED
27	FILED
28	FILED
29	FILED
30	FILED
31	FILED
32	FILED
33	FILED
34	FILED
35	FILED
36	FILED
37	FILED
38	FILED
39	FILED
40	FILED
41	FILED
42	FILED
43	FILED
44	FILED
45	FILED
46	FILED
47	FILED
48	FILED
49	FILED
50	FILED
51	FILED
52	FILED
53	FILED
54	FILED
55	FILED
56	FILED
57	FILED
58	FILED
59	FILED
60	FILED
61	FILED
62	FILED
63	FILED
64	FILED
65	FILED
66	FILED
67	FILED
68	FILED
69	FILED
70	FILED
71	FILED
72	FILED
73	FILED
74	FILED
75	FILED
76	FILED
77	FILED
78	FILED
79	FILED
80	FILED
81	FILED
82	FILED
83	FILED
84	FILED
85	FILED
86	FILED
87	FILED
88	FILED
89	FILED
90	FILED
91	FILED
92	FILED
93	FILED
94	FILED
95	FILED
96	FILED
97	FILED
98	FILED
99	FILED
100	FILED

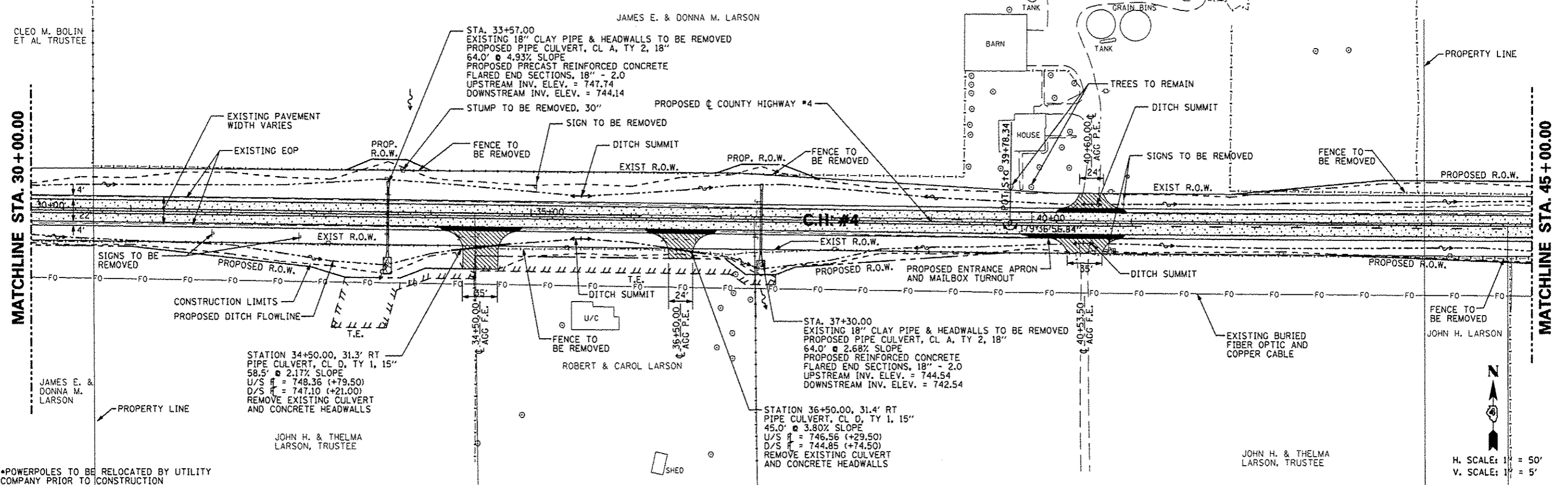
DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PROF. FILE	
NO.	

DATE	
BY	
PROF. FILE	
NO.	

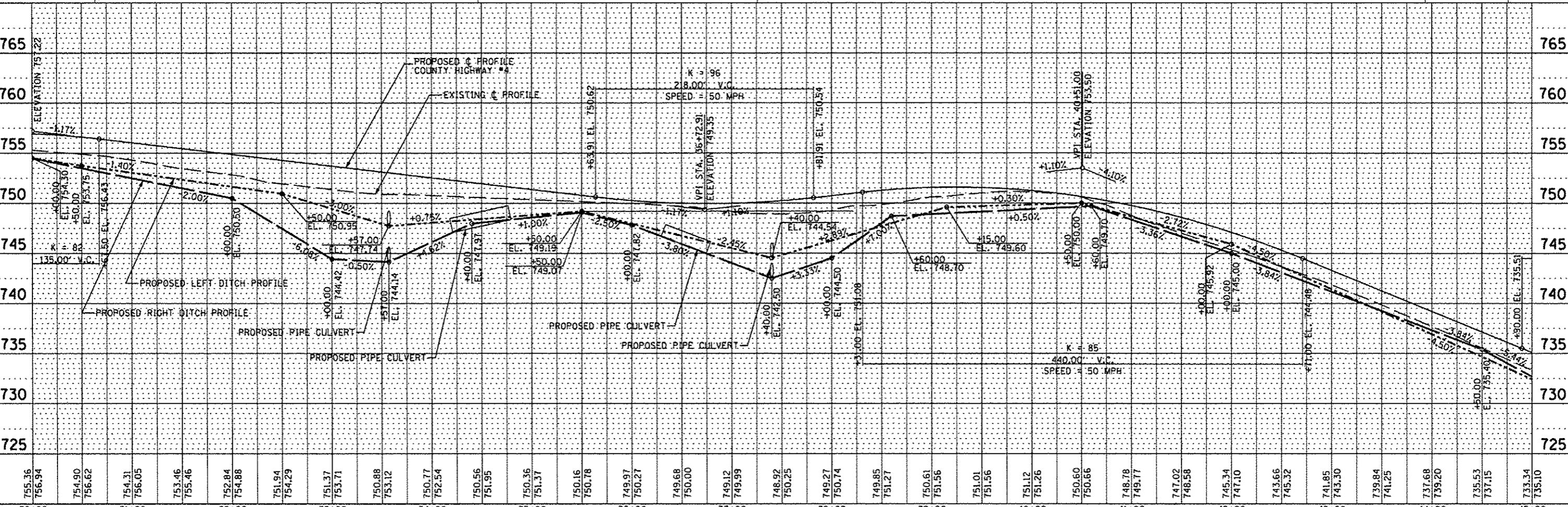


FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		COUNTY HIGHWAY #4 PLAN & PROFILE SHEET		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#	#USER#	AMH	-	393		12-00001-01-RS		KNOX	174	31	CONTRACT NO. 89614	
PLOT SCALE	#SCALE#	CHECKED	REVISED	SCALE: 1"=50'		SHEET NO. 31 OF 174 SHEETS		STA. 15+00.00 TO STA. 30+00.00		ILLINOIS FED. AID PROJECT RS-0393 (105)		
PLOT DATE	#DATE#	DATE	REVISED	MARCH 2013								

DATE	
BY	
REVISIONS	
NO.	DESCRIPTION
1	AS SHOWN
2	REVISED
3	REVISED
4	REVISED
5	REVISED
6	REVISED
7	REVISED
8	REVISED
9	REVISED
10	REVISED
11	REVISED
12	REVISED
13	REVISED
14	REVISED
15	REVISED
16	REVISED
17	REVISED
18	REVISED
19	REVISED
20	REVISED
21	REVISED
22	REVISED
23	REVISED
24	REVISED
25	REVISED
26	REVISED
27	REVISED
28	REVISED
29	REVISED
30	REVISED
31	REVISED
32	REVISED
33	REVISED
34	REVISED
35	REVISED
36	REVISED
37	REVISED
38	REVISED
39	REVISED
40	REVISED
41	REVISED
42	REVISED
43	REVISED
44	REVISED
45	REVISED
46	REVISED
47	REVISED
48	REVISED
49	REVISED
50	REVISED
51	REVISED
52	REVISED
53	REVISED
54	REVISED
55	REVISED
56	REVISED
57	REVISED
58	REVISED
59	REVISED
60	REVISED
61	REVISED
62	REVISED
63	REVISED
64	REVISED
65	REVISED
66	REVISED
67	REVISED
68	REVISED
69	REVISED
70	REVISED
71	REVISED
72	REVISED
73	REVISED
74	REVISED
75	REVISED
76	REVISED
77	REVISED
78	REVISED
79	REVISED
80	REVISED
81	REVISED
82	REVISED
83	REVISED
84	REVISED
85	REVISED
86	REVISED
87	REVISED
88	REVISED
89	REVISED
90	REVISED
91	REVISED
92	REVISED
93	REVISED
94	REVISED
95	REVISED
96	REVISED
97	REVISED
98	REVISED
99	REVISED
100	REVISED



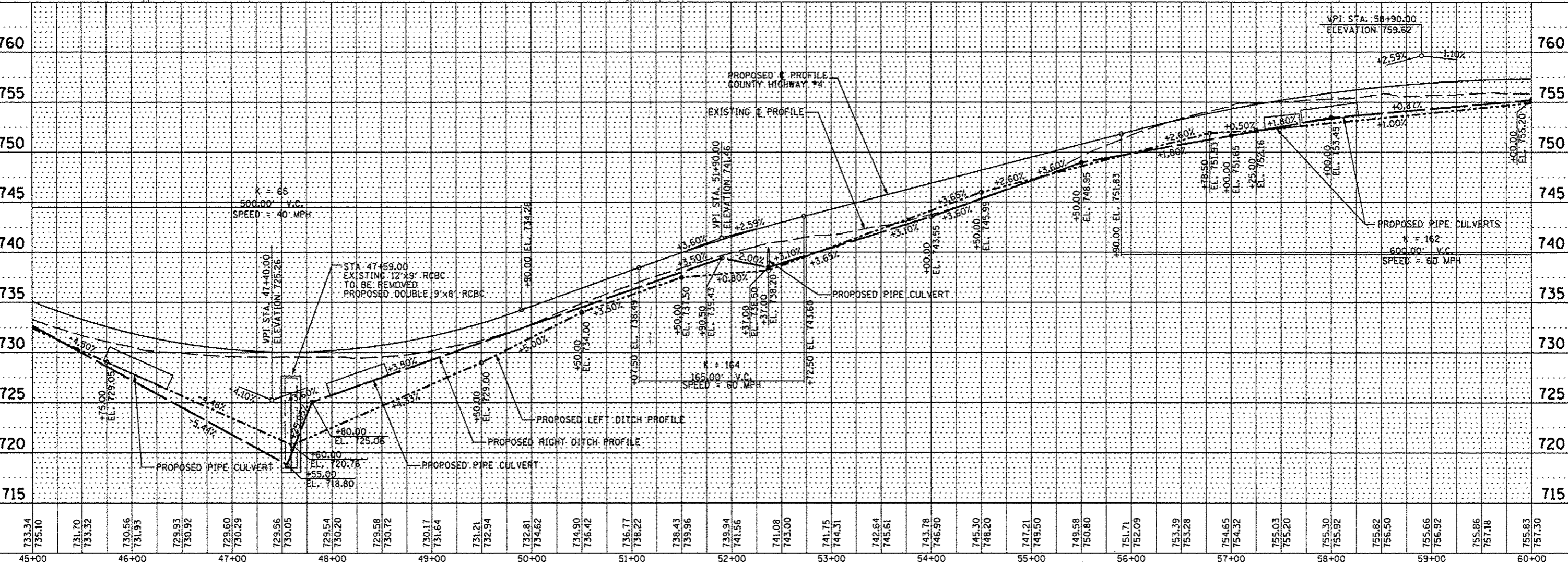
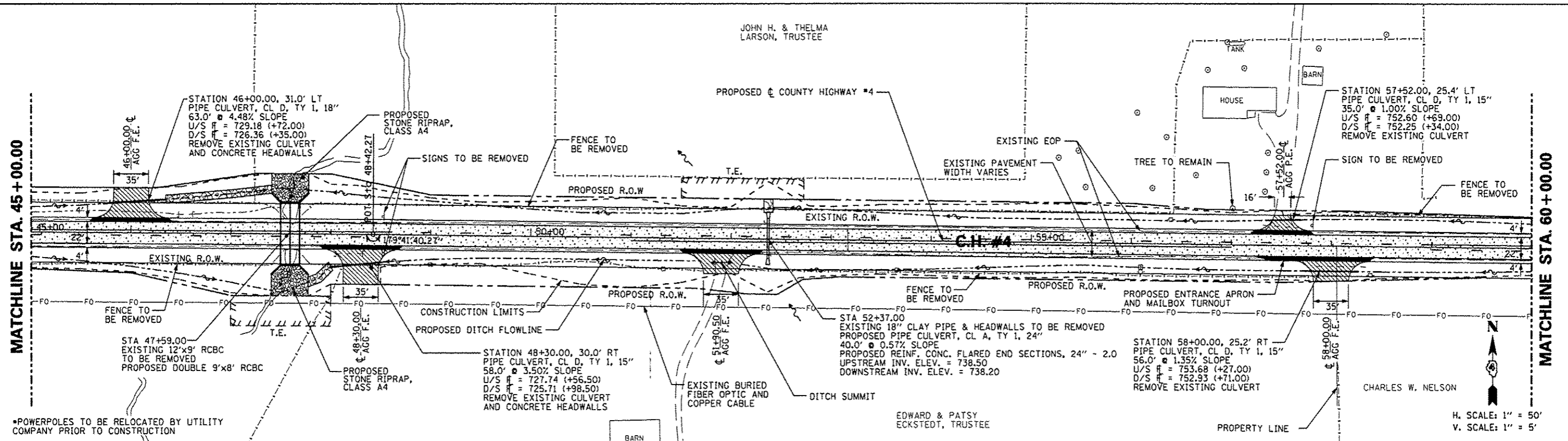
DATE	
BY	
REVISIONS	
NO.	DESCRIPTION
1	AS SHOWN
2	REVISED
3	REVISED
4	REVISED
5	REVISED
6	REVISED
7	REVISED
8	REVISED
9	REVISED
10	REVISED
11	REVISED
12	REVISED
13	REVISED
14	REVISED
15	REVISED
16	REVISED
17	REVISED
18	REVISED
19	REVISED
20	REVISED
21	REVISED
22	REVISED
23	REVISED
24	REVISED
25	REVISED
26	REVISED
27	REVISED
28	REVISED
29	REVISED
30	REVISED
31	REVISED
32	REVISED
33	REVISED
34	REVISED
35	REVISED
36	REVISED
37	REVISED
38	REVISED
39	REVISED
40	REVISED
41	REVISED
42	REVISED
43	REVISED
44	REVISED
45	REVISED
46	REVISED
47	REVISED
48	REVISED
49	REVISED
50	REVISED
51	REVISED
52	REVISED
53	REVISED
54	REVISED
55	REVISED
56	REVISED
57	REVISED
58	REVISED
59	REVISED
60	REVISED
61	REVISED
62	REVISED
63	REVISED
64	REVISED
65	REVISED
66	REVISED
67	REVISED
68	REVISED
69	REVISED
70	REVISED
71	REVISED
72	REVISED
73	REVISED
74	REVISED
75	REVISED
76	REVISED
77	REVISED
78	REVISED
79	REVISED
80	REVISED
81	REVISED
82	REVISED
83	REVISED
84	REVISED
85	REVISED
86	REVISED
87	REVISED
88	REVISED
89	REVISED
90	REVISED
91	REVISED
92	REVISED
93	REVISED
94	REVISED
95	REVISED
96	REVISED
97	REVISED
98	REVISED
99	REVISED
100	REVISED



FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				COUNTY HIGHWAY #4 PLAN & PROFILE SHEET				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN	REVISED									393	12-00001-01-RS	KNOW	174	32
PLOT SCALE	CHECKED	DATE	REVISED									COUNTY HIGHWAY #4		CONTRACT NO. 89614		
PLOT DATE		MARCH 2013										FED ROAD DIST NO. 4		ILLINOIS FED. AID PROJECT RS-0393 (105)		

DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	

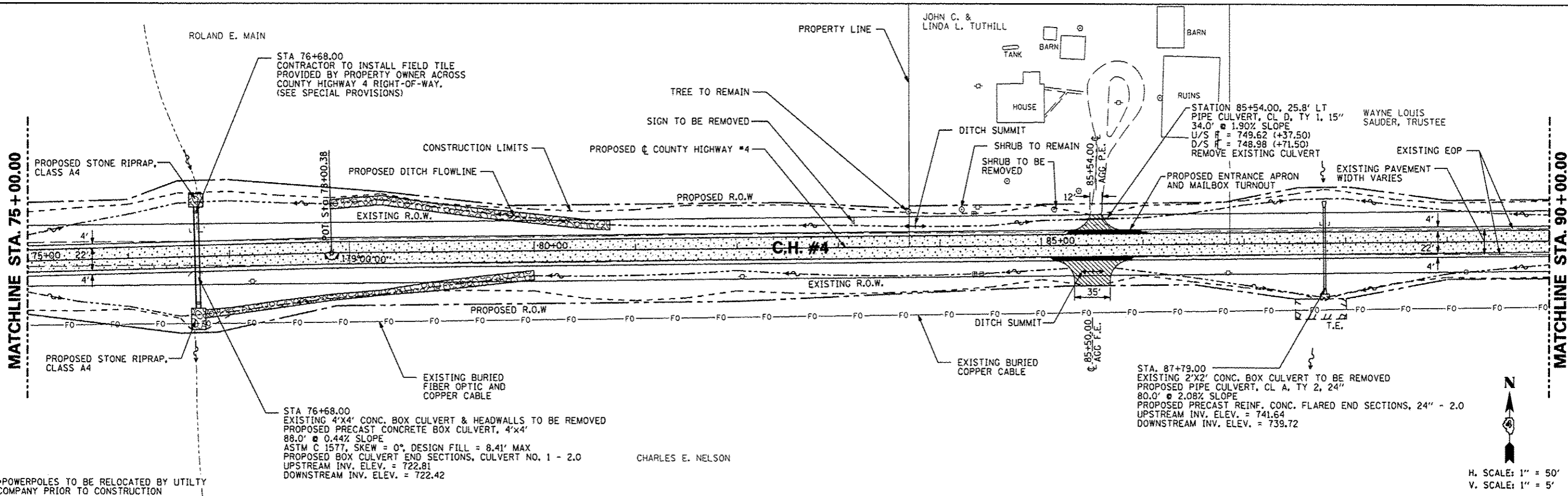
DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	



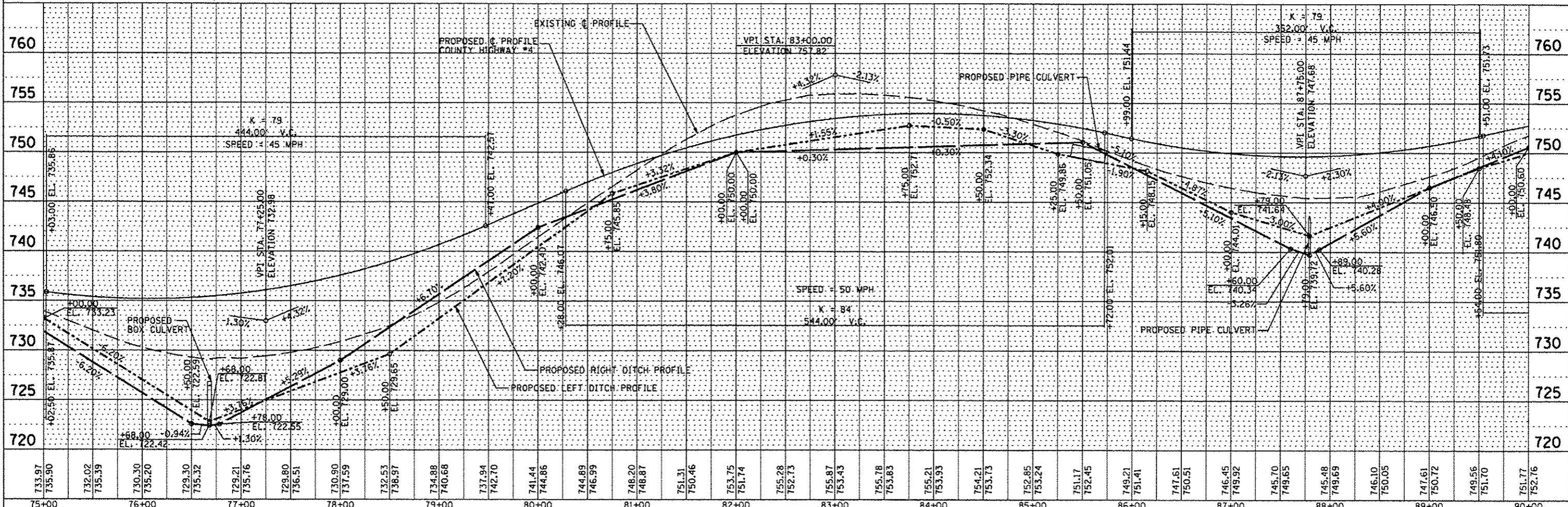
FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION COUNTY HIGHWAY #4 PLAN & PROFILE SHEET				SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
*FILE#		DRAWN	REVISED					393	12-00001-01-RS	KNOX	174	33
PLOT SCALE		CHECKED	REVISED					COUNTY HIGHWAY #4		CONTRACT NO. 89614		
PLOT DATE		DATE	REVISED					FED ROAD DIST NO. 4		ILLINOIS FED. AID PROJECT RS-0393 (105)		
				SCALE: 1"=50'				SHEET NO. 33 OF 174 SHEETS STA. 45+00.00 TO STA. 60+00.00				

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	



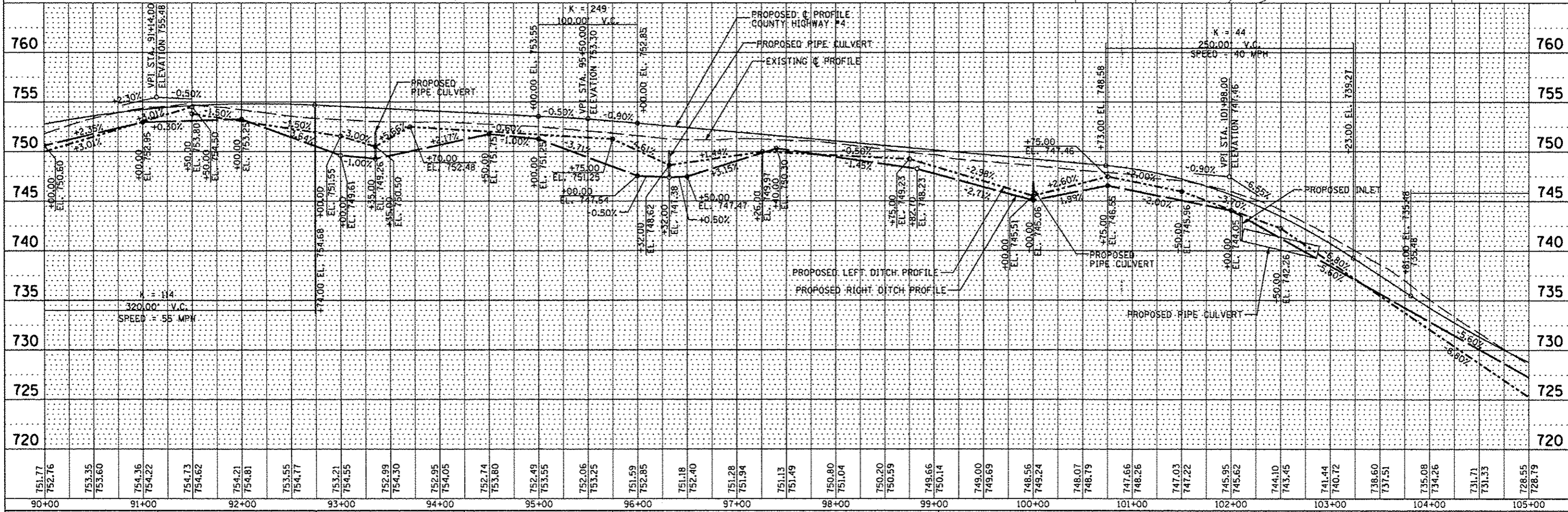
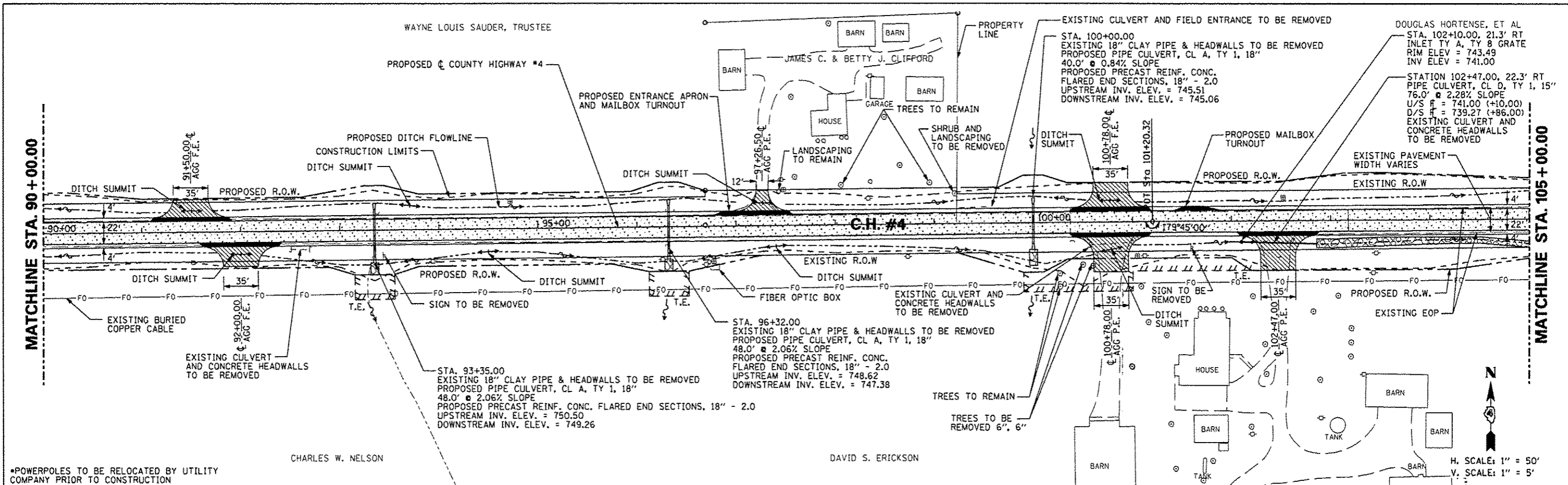
H. SCALE: 1" = 50'
V. SCALE: 1" = 5'



FILE NAME =	USER NAME * USER*	DESIGNED - AMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY #4 PLAN & PROFILE SHEET	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILE#		DRAWN - AMH	REVISED -			393	12-00001-01-RS	KNOX	174	35
PLOT SCALE * SCALE*		CHECKED - JLH	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614		
PLOT DATE * DATE*		DATE - MARCH 2013	REVISED -			SCALE: 1"=50'		SHEET NO. 35 OF 174 SHEETS		STA. 75+00.00 TO STA. 90+00.00

DATE
BY
CHECKED
DATE
BY
NO. OF SHEETS
NO. OF THIS SHEET

DATE
BY
CHECKED
DATE
BY
NO. OF SHEETS
NO. OF THIS SHEET



*PROPOSED GUARDRAIL
 TBT, TYPE 1 (SPECIAL) TANGENT STA. 106+50.00 LT TO STA. 107+00.00 LT
 SPBGR TY A, 6 FOOT POSTS STA. 107+00.00 LT TO STA. 107+37.50 LT
 SPBGR TY A, 6 FOOT POSTS STA. 108+22.50 LT TO STA. 108+85.00 LT
 TBT, TYPE 1 (SPECIAL) TANGENT 108+85.00 LT TO STA. 109+35.00 LT
 TBT, TYPE 1 (SPECIAL) TANGENT STA. 104+87.50 RT TO STA. 105+37.50 RT
 SPBGR TY A, 6 FOOT POSTS STA. 105+37.50 RT TO STA. 107+37.50 RT
 SPBGR TY A, 6 FOOT POSTS STA. 108+22.50 RT TO STA. 108+85.00 RT
 TBT, TYPE 1 (SPECIAL) TANGENT 108+85.00 RT TO STA. 109+35.00 RT

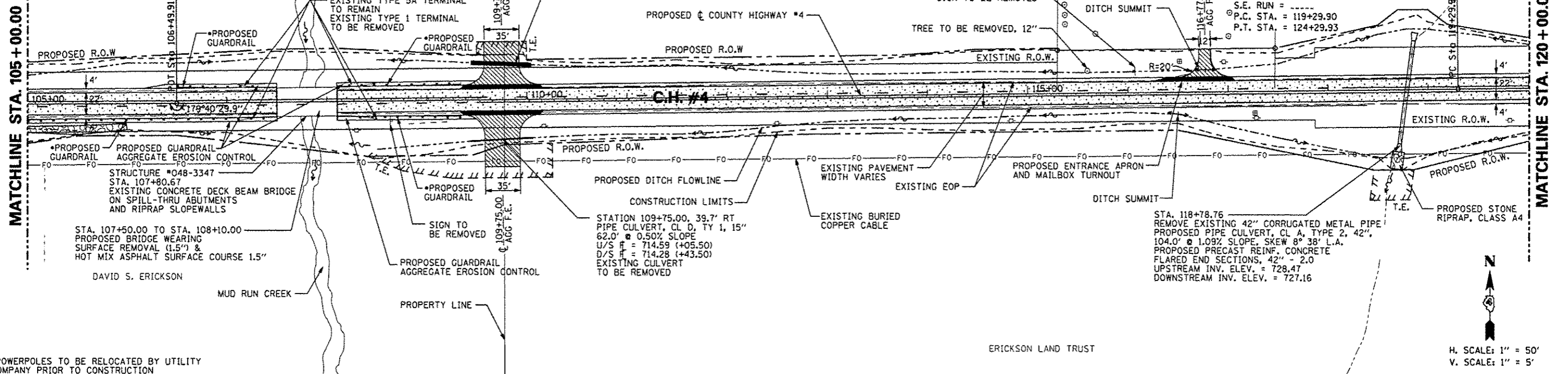
JOHN H SCHLAF

GAIL L. INGLES

JOHN H SCHLAF

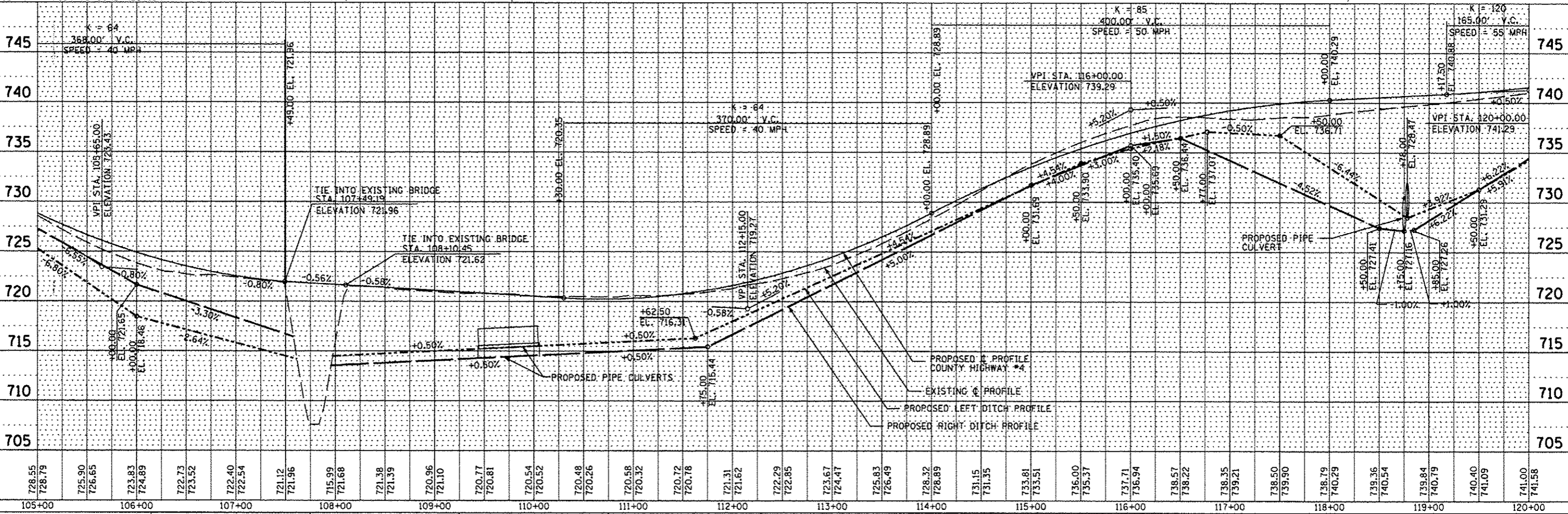
PROP. CURVE PRCH4-2
 PI STA. = 121+79.92
 $\Delta = 1^\circ 18' 24''$ (RT)
 $D = 0^\circ 15' 41''$
 $R = 21,925.00'$
 $T = 250.03'$
 $L = 500.04'$
 $E = 1.43'$
 $\theta = \dots$
 $T.R. = \dots$
 $S.E. RUN = \dots$
 $P.C. STA. = 119+29.90$
 $P.T. STA. = 124+29.93$

STATION 109+75.00, 35.9' LT
 2 PIPE CULVERTS, CL D, TY 1, 24"
 60.0' @ 0.50% SLOPE
 $U/S \bar{x} = 715.52 (+04.50)$
 $D/S \bar{x} = 715.22 (+44.50)$



*POWERPOLES TO BE RELOCATED BY UTILITY COMPANY PRIOR TO CONSTRUCTION

H. SCALE: 1" = 50'
 V. SCALE: 1" = 5'



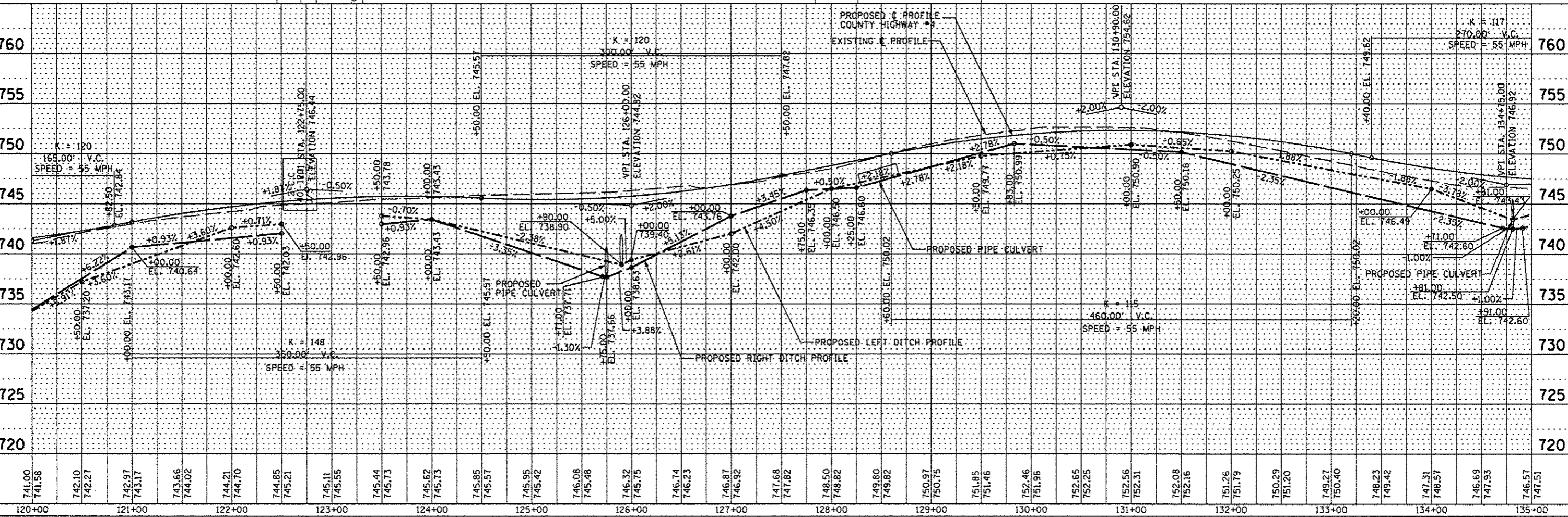
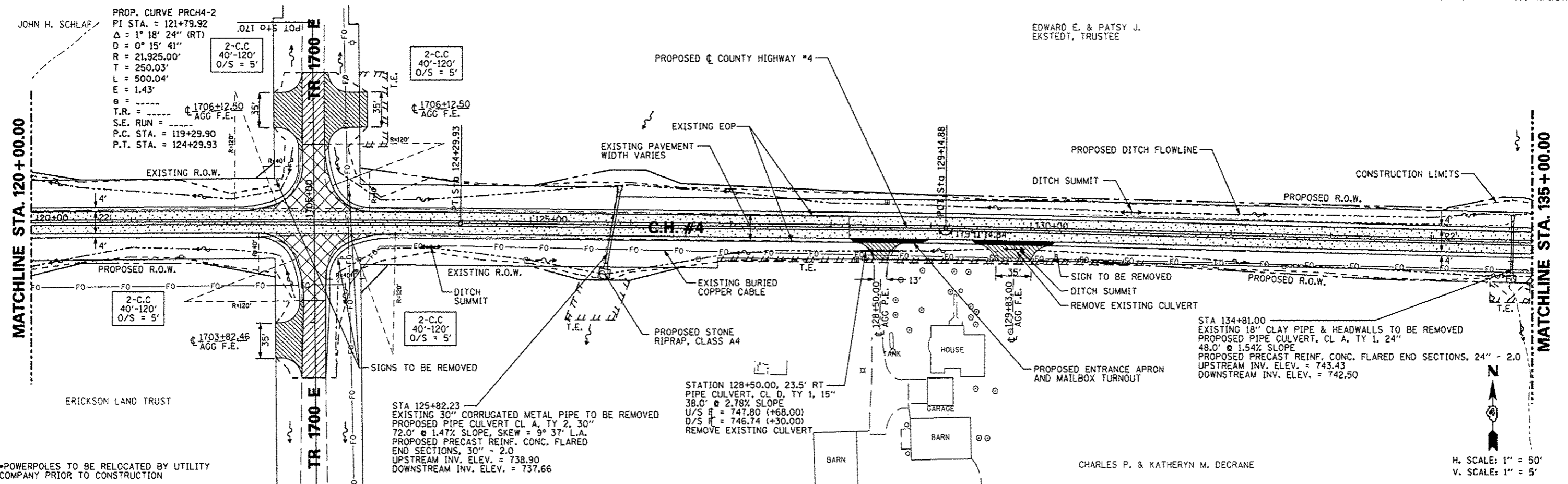
FILE NAME	USER NAME * USER#	DESIGNED - AMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY #4 PLAN & PROFILE SHEET	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - AMH	REVISED -			393	12-0001-01-RS	KNOX	174	37	
PLOT SCALE * #SCALE#		CHECKED - JLH	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614			
PLOT DATE * #DATE#		DATE - MARCH 2013	REVISED -			SCALE: 1"=50'		SHEET NO. 37 OF 174 SHEETS		STA. 105+00.00 TO STA. 120+00.00	

DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY

DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	

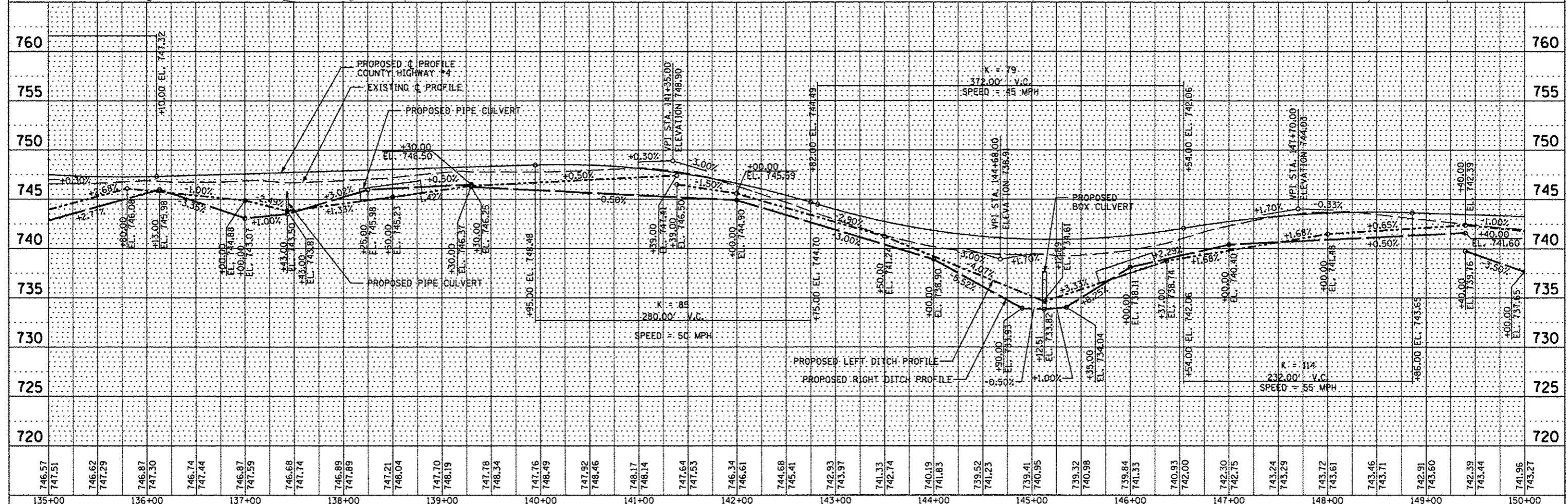
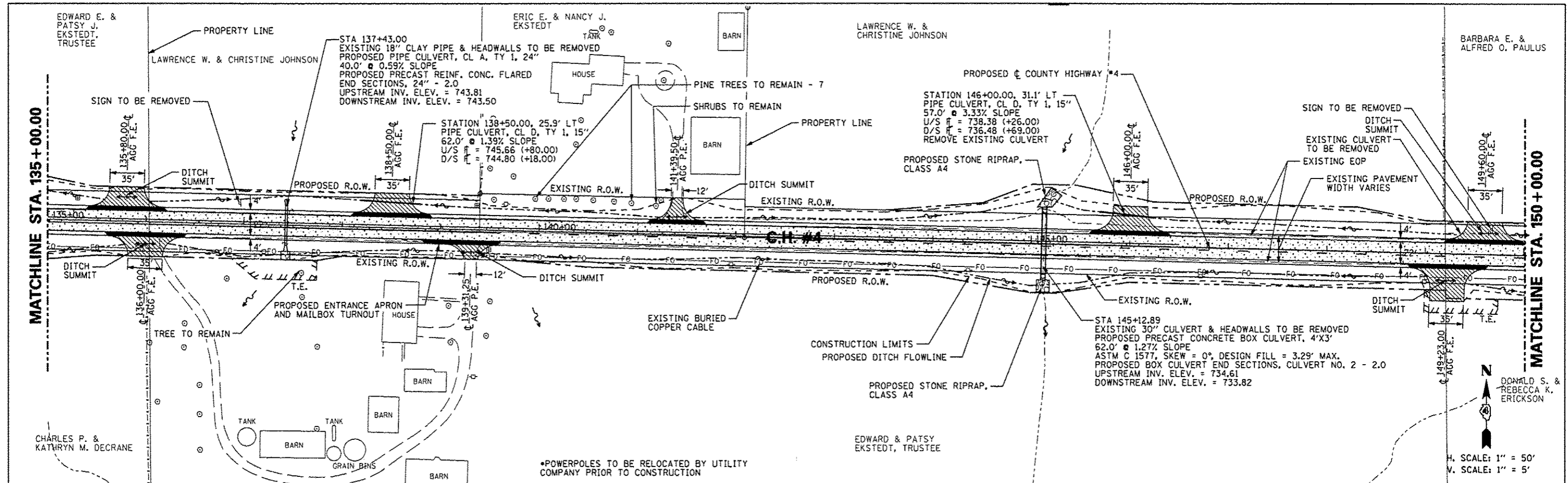
DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	



FILE NAME =	USER NAME = #USER#	DESIGNED - AMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY #4 PLAN & PROFILE SHEET	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - AMH	REVISED -			393	12-00001-01-RS	KNOX	174	38
PLOT SCALE = #SCALE#		CHECKED - JLH	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614		
PLOT DATE = #DATE#		DATE - MARCH 2013	REVISED -			FED ROAD DIST NO. 4		ILLINOIS FED. AID PROJECT RS-0393 (105)		

DATE	
BY	
PLAN	
NO. BOOK	
NO.	
NO.	
NO.	

DATE	
BY	
PROFILE	
NO. BOOK	
NO.	
NO.	
NO.	



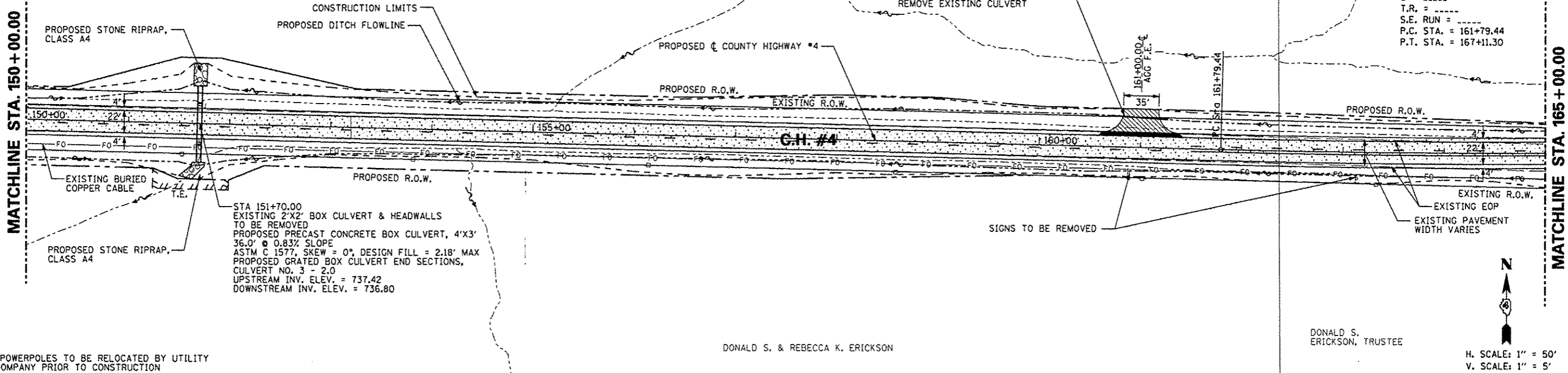
FILE NAME *	USER NAME *#USER*	DESIGNED - AMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY #4 PLAN & PROFILE SHEET	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - AMH	REVISED -			393	12-00001-01-RS	KNOX	174	39	
PLOT SCALE *#SCALE*		CHECKED - JLH	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614			
PLOT DATE *#DATE*		DATE - MARCH 2013	REVISED -			SCALE: 1"=50'		SHEET NO. 39 OF 174 SHEETS		STA. 135+00.00 TO STA. 150+00.00	
						FED ROAD DIST NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (105)					

BARBARA E. & ALFRED O. PAULUS

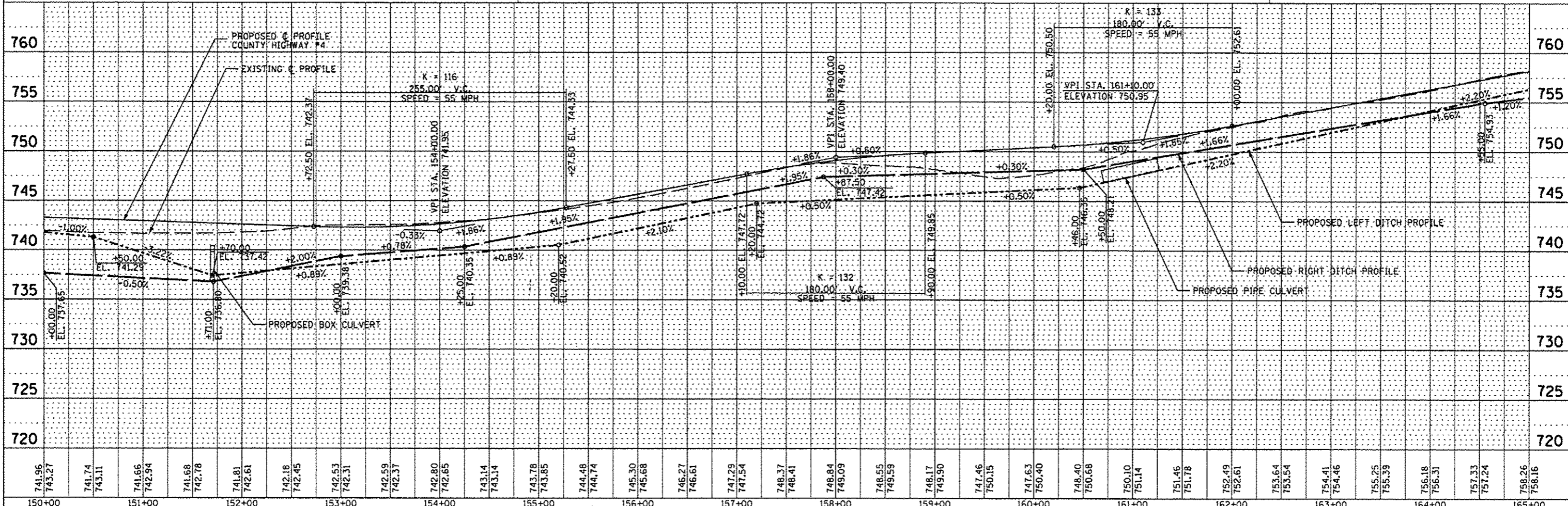
GRACE E. EDWARDS

PROP. CURVE PRCH4-3
 PI STA. = 164+45.42
 $\Delta = 2^\circ 46' 13''$ (LT)
 $D = 0^\circ 31' 15''$
 $R = 11,000.00'$
 $T = 265.98'$
 $L = 531.87'$
 $E = 3.22'$
 $e = \dots$
 $T.R. = \dots$
 $S.E. RUN = \dots$
 $P.C. STA. = 161+79.44$
 $P.T. STA. = 167+11.30$

STATION 161+00.00, 29.5' LT
 PIPE CULVERT, CL D, TY 1, 15"
 56.0' @ 2.20% SLOPE
 $U/S \# = 748.12 (+26.50)$
 $D/S \# = 746.89 (+70.50)$
 REMOVE EXISTING CULVERT



*POWERPOLES TO BE RELOCATED BY UTILITY COMPANY PRIOR TO CONSTRUCTION



741.96	743.27	741.74	743.11	741.66	742.94	741.68	742.78	741.81	742.61	742.18	742.45	742.53	742.31	742.59	742.37	742.80	742.65	743.14	743.14	743.78	743.85	744.48	744.74	745.30	745.68	746.27	746.61	747.29	747.54	748.37	748.41	748.84	749.09	748.55	749.59	748.17	749.90	747.46	750.15	747.63	750.40	748.40	750.68	750.10	751.14	751.46	751.78	752.49	752.61	753.64	753.54	754.41	754.46	755.25	755.39	756.18	756.31	757.33	757.24	758.26	758.16
150+00	151+00	152+00	153+00	154+00	155+00	156+00	157+00	158+00	159+00	160+00	161+00	162+00	163+00	164+00	165+00																																														

DATE	
BY	
PLAN	
REVISED	
DATE	
BY	
NOTE BOOK	
NO.	

DATE	
BY	
PROFILE	
REVISED	
DATE	
BY	
NOTE BOOK	
NO.	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

COUNTY HIGHWAY #4
 PLAN & PROFILE SHEET

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	40
COUNTY HIGHWAY #4		CONTRACT NO. 89614		
FED ROAD DIST NO. 4		ILLINOIS FED. AID PROJECT RS-0393 (105)		

SCALE: 1"=50' SHEET NO. 40 OF 174 SHEETS STA. 150+00.00 TO STA. 165+00.00

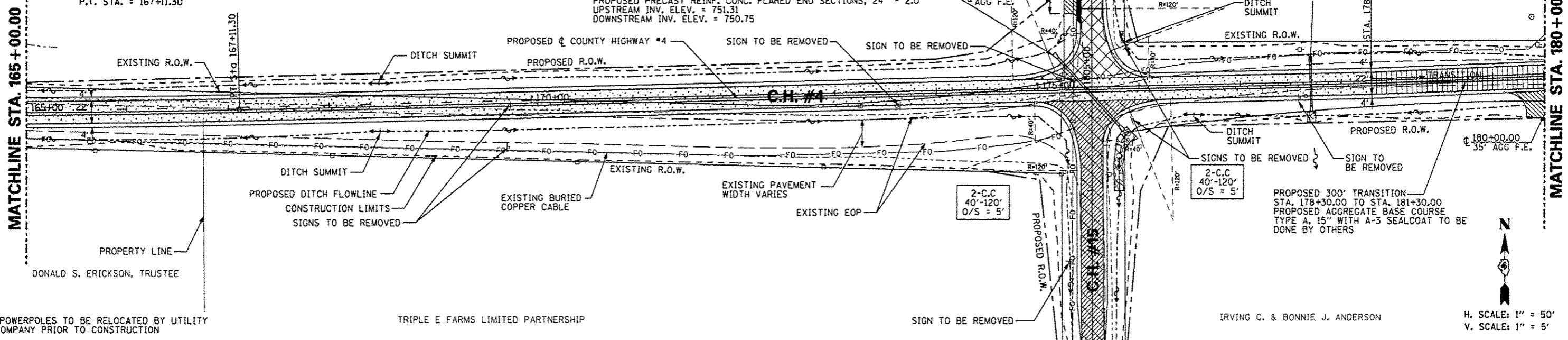
PROP. CURVE PRCH4-3
 PI STA. = 164+45.42
 $\Delta = 2^\circ 46' 13''$ (LT)
 $D = 0^\circ 31' 15''$
 $R = 11,000.00'$
 $T = 265.98'$
 $L = 531.87'$
 $E = 3.22'$
 $e =$
 T.R. =
 S.E. RUN =
 P.C. STA. = 161+79.44
 P.T. STA. = 167+11.30

GRACE E. EDWARDS

WILLIS E. & ANN LARSON

STA 177+70.00
 REMOVE EXISTING 18" CLAY PIPE & HEADWALLS
 PROPOSED PIPE CULVERT, CL A, TY 1, 18"
 40.0' @ 0.59% SLOPE
 PROPOSED PRECAST REINF. CONC.
 FLARED END SECTIONS, 18" - 2.0
 UPSTREAM INV. ELEV. = 751.81
 DOWNSTREAM INV. ELEV. = 751.50

STA 175+48.34
 EXISTING 24" CLAY PIPE AND CONC. HEADWALLS TO BE REMOVED
 PROPOSED PIPE CULVERT, CL A, TY 1, 24"
 90.0' @ 0.55% SLOPE, SKEW = 41° 11'
 PROPOSED PRECAST REINF. CONC. FLARED END SECTIONS, 24" - 2.0
 UPSTREAM INV. ELEV. = 751.31
 DOWNSTREAM INV. ELEV. = 750.75

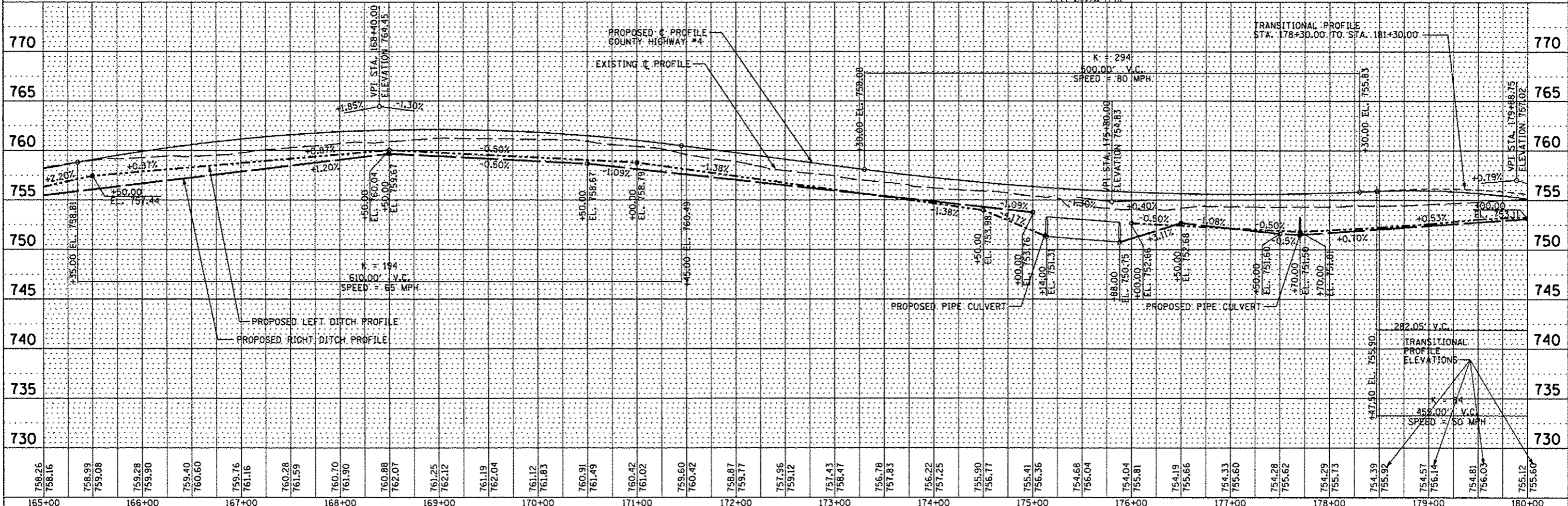


*POWERPOLES TO BE RELOCATED BY UTILITY COMPANY PRIOR TO CONSTRUCTION

TRIPLE E FARMS LIMITED PARTNERSHIP

IRVING C. & BONNIE J. ANDERSON

H. SCALE: 1" = 50'
 V. SCALE: 1" = 5'



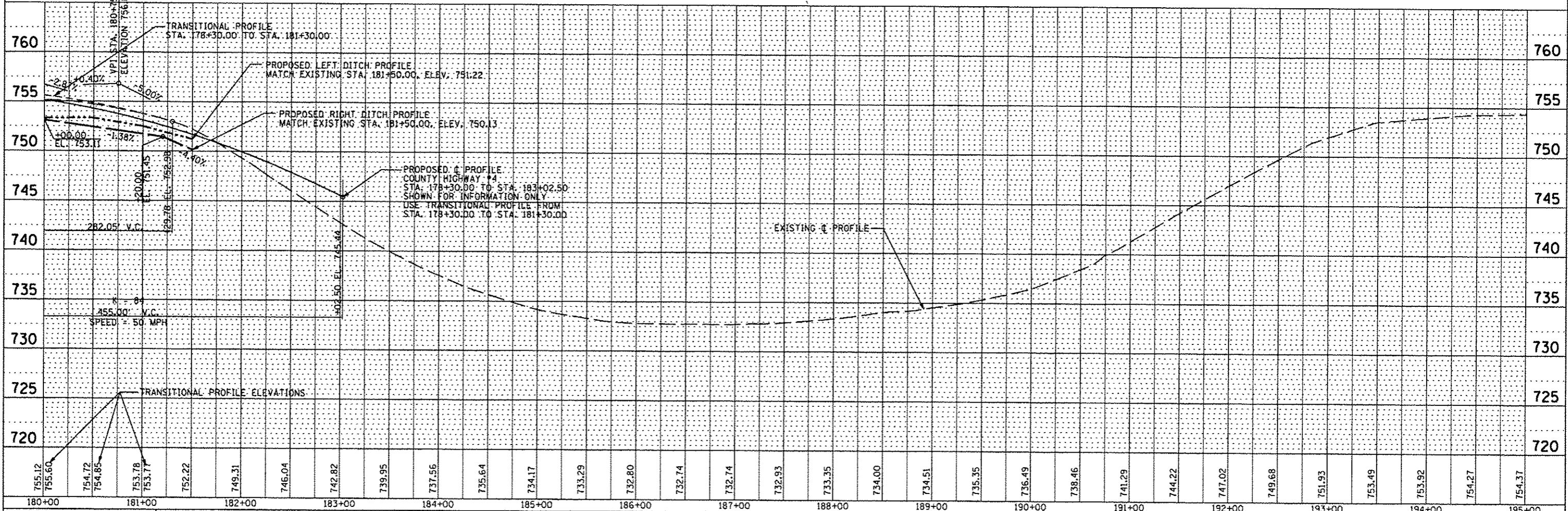
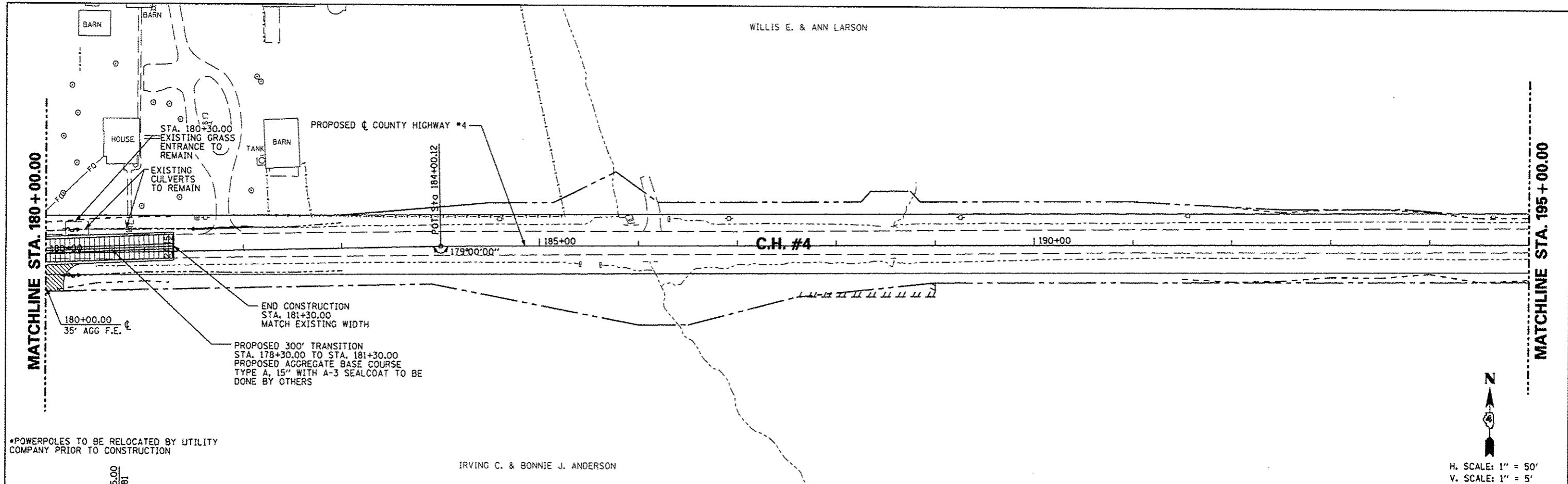
FILE NAME *	USER NAME * USER*	DESIGNED - AMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY #4 PLAN & PROFILE SHEET	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILE#		DRAWN - AMH	REVISED -			393	12-00001-01-RS	KNOX	174	41	
		CHECKED - JLH	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614			
		DATE - MARCH 2013	REVISED -			SCALE: 1"=50'		SHEET NO. 41 OF 174 SHEETS		STA. 165+00.00 TO STA. 180+00.00	

DATE	
BY	
REVISION	
PLANNED	
ALTERNATE CHECKED	
NOTE BOOK NO.	
NO.	
FILE NAME	

DATE	
BY	
REVISION	
PROFILE	
CHECKED	
NOTE BOOK NO.	
NO.	
FILE NAME	

DATE	
BY	
REVISIONS	
PLANNED	
ALIGNED	
GRADES	
STRUCTURES	
NOTES	
NO.	

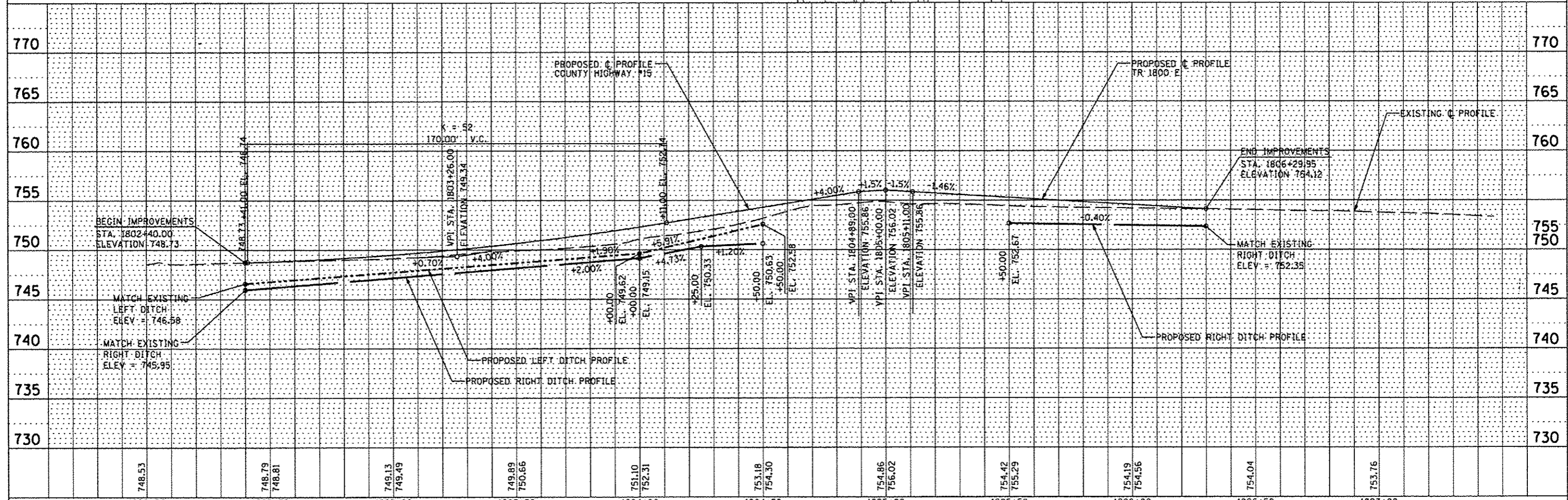
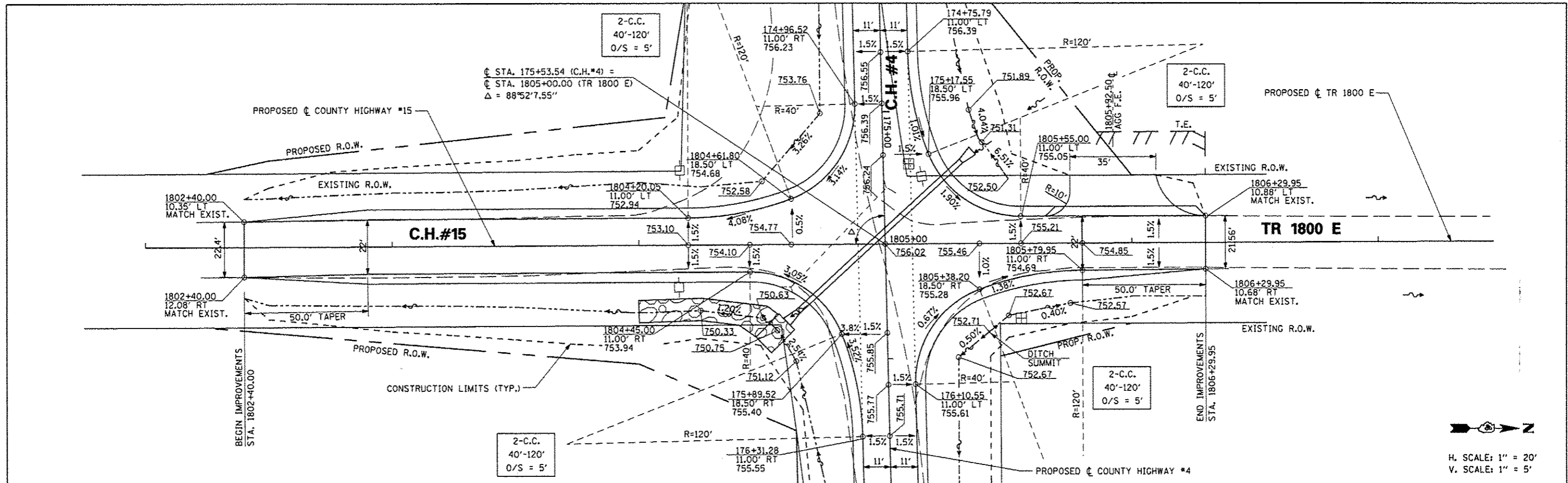
DATE	
BY	
REVISIONS	
PLANNED	
ALIGNED	
GRADES	
STRUCTURES	
NOTES	
NO.	



FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		COUNTY HIGHWAY #4 PLAN & PROFILE SHEET		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN	REVISED					393	12-00001-01-RS	KNOX	174	42
		CHECKED	REVISED					COUNTY HIGHWAY #4		CONTRACT NO. 89614		
		DATE	REVISED					FED ROAD DIST NO. 4		ILLINOIS FED. AID PROJECT		RS-0393 (105)
								SCALE: 1"=50'		SHEET NO. 42 OF 174 SHEETS		STA. 180+00.00 TO STA. 195+00.00

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	

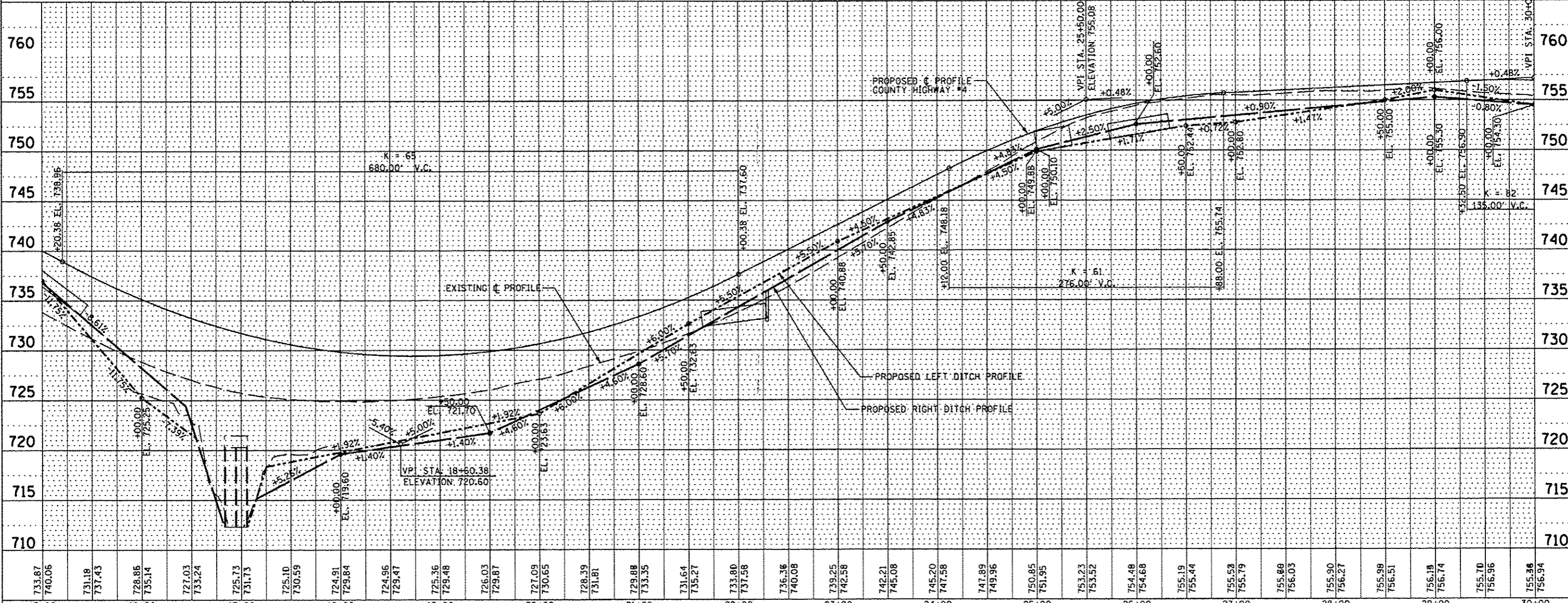
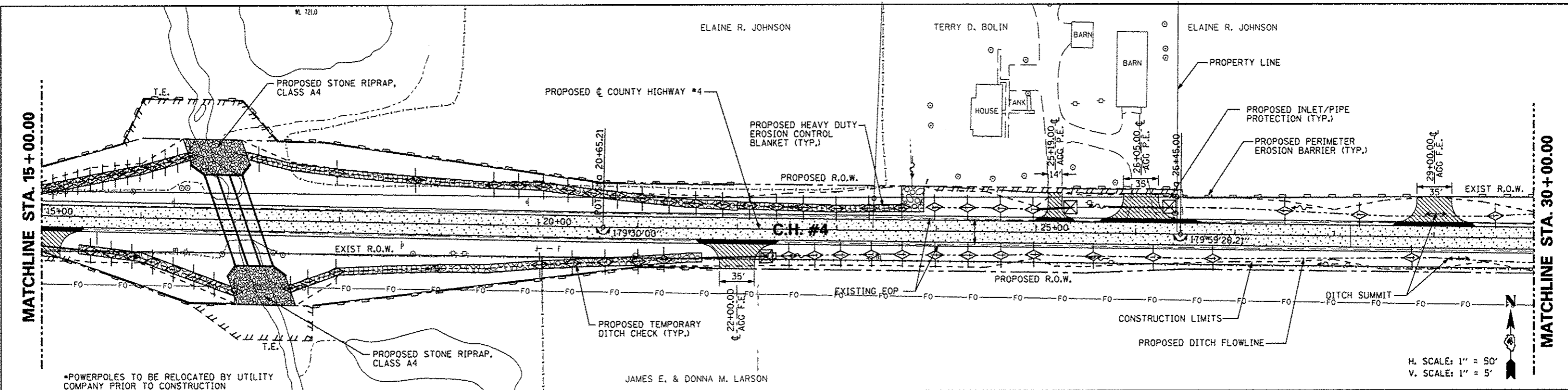
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	



FILE NAME	USER NAME	DESIGNED - AMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		TR 1800 E PLAN & PROFILE SHEET		F.A.S. RTEL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - AMH	REVISED -					393	12-00001-01-RS	KNOX	174	45
PLOT SCALE	#SCALE#	CHECKED - JLH	REVISED -					COUNTY HIGHWAY #4		CONTRACT NO. 89614		
PLOT DATE	#DATE#	DATE - MARCH 2013	REVISED -					FED ROAD DIST NO. 4		ILLINOIS FED. AID PROJECT RS-0393 (005)		

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	

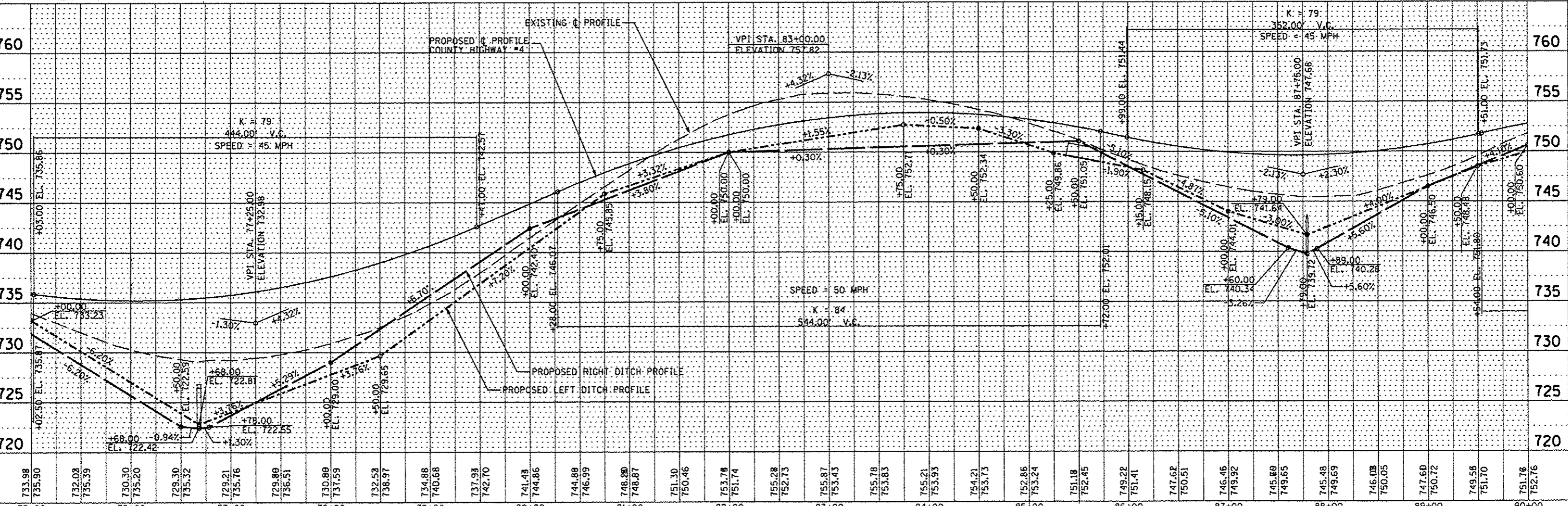
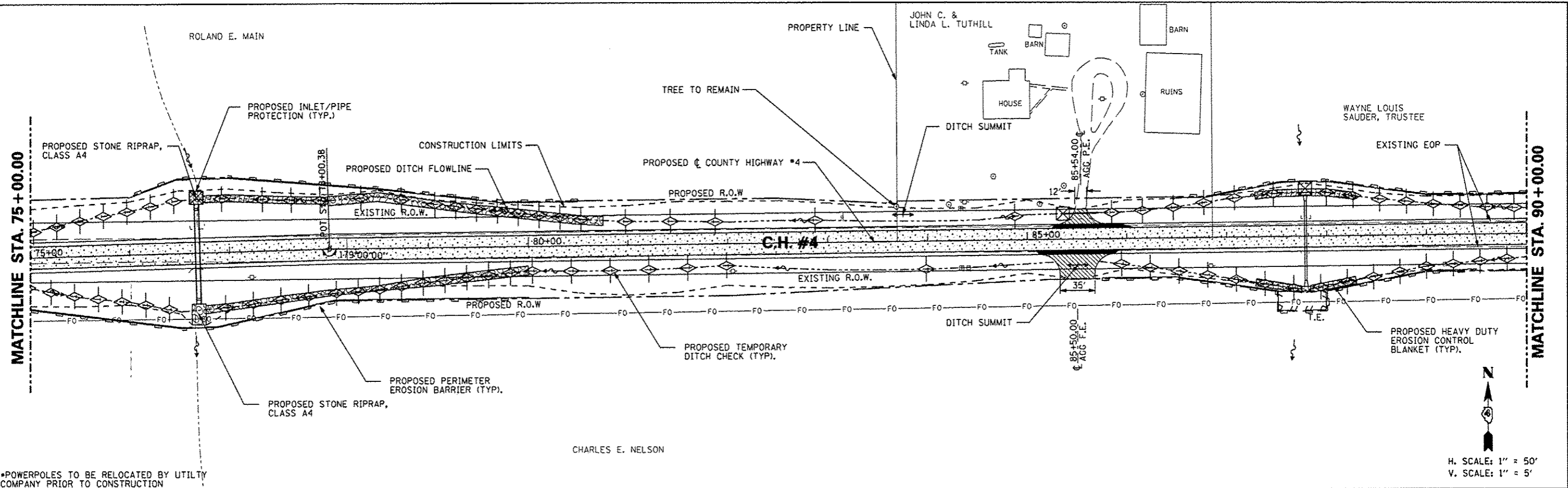
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	



FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY #4 EROSION AND SEDIMENT CONTROL PLAN	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL		DRAWN	REVISED			393	12-00001-01-RS	KNOX	174	47
		CHECKED	REVISED			COUNTY HIGHWAY #4		CONTRACT NO. 89614		
		DATE	REVISED			SCALE: 1"=50'		SHEET NO. 47 OF 174 SHEETS		STA. 15+00.00 TO STA. 30+00.00
						FED ROAD DIST NO. 4		ILLINOIS FED. AID PROJECT		RS-0393 (105)

DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
CHECKED	
DATE	
NO.	

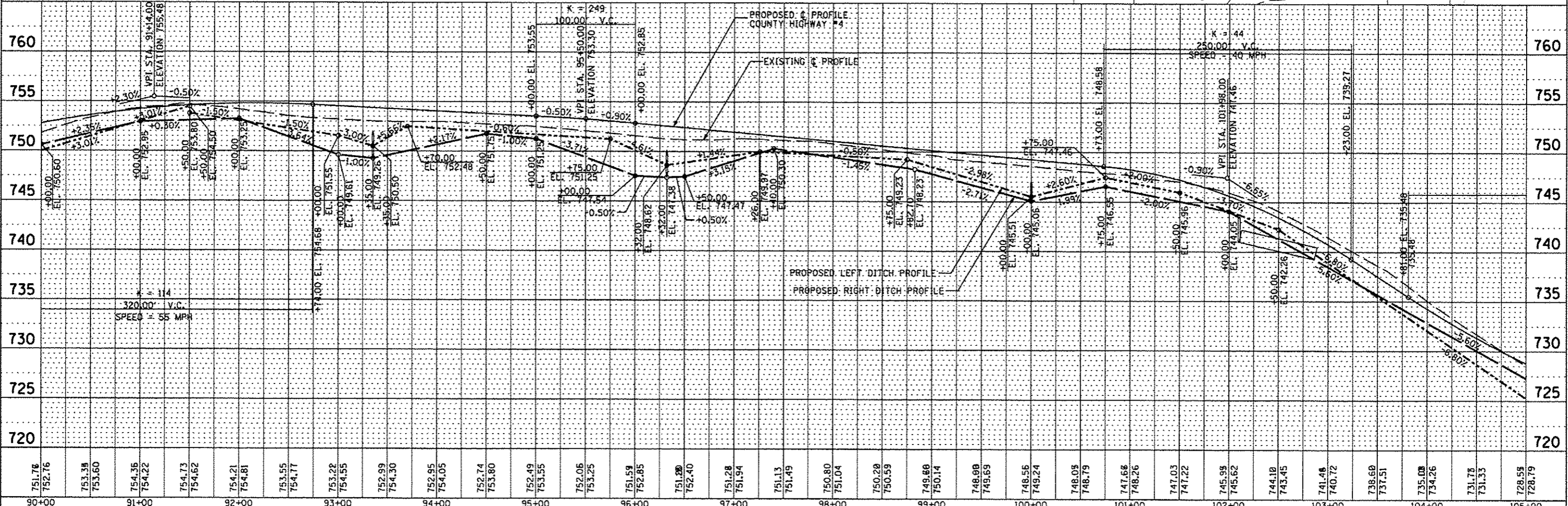
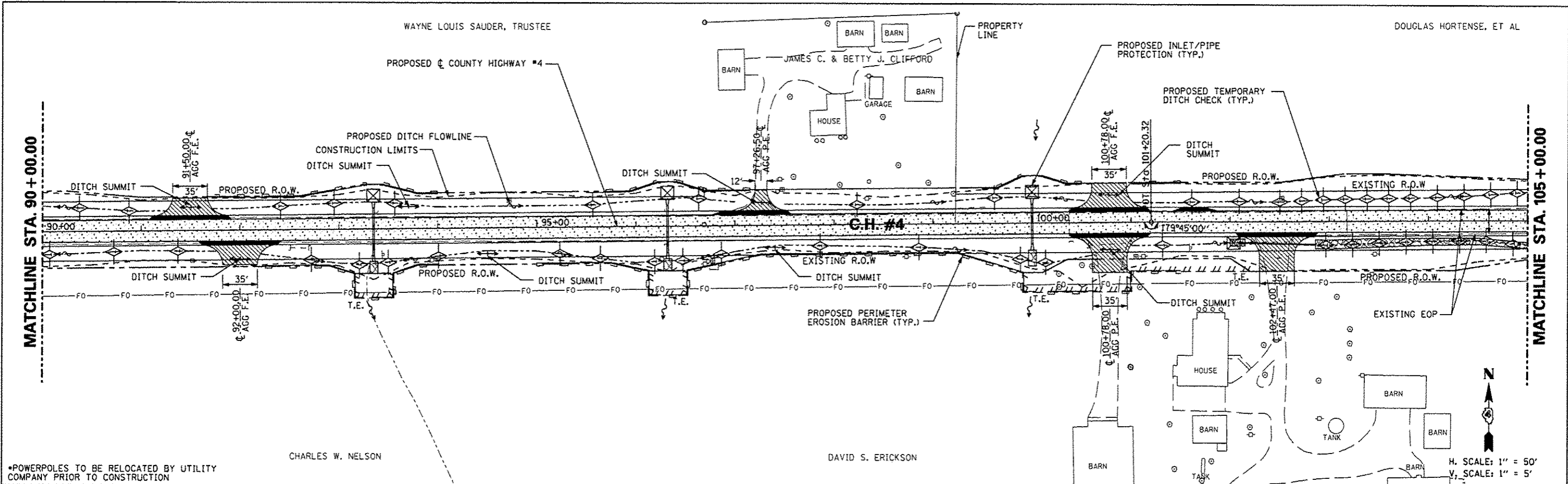
DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
CHECKED	
DATE	
NO.	



FILE NAME	USER NAME * USER *	DESIGNED - AMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY #4 EROSION AND SEDIMENT CONTROL PLAN	F.A.S. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#	PLOT SCALE * SCALE *	DRAWN - AMH	REVISED -			393	12-00001-01-R5	KNOX	174	51	
	PLOT DATE * DATE *	CHECKED - JLH	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614			
		DATE - MARCH 2013	REVISED -			SCALE: 1"=50'		SHEET NO. 51 OF 174 SHEETS		STA. 75+00.00 TO STA. 90+00.00	

DATE	
BY	
REVISIONS	
PLANNED	
NOTED	
NO.	
FILE NAME	

DATE	
BY	
REVISIONS	
PLANNED	
NOTED	
NO.	
FILE NAME	



FILE NAME	USER NAME * USER*	DESIGNED - AMH	REVISED -
*FILE#		DRAWN - AMH	REVISED -
		CHECKED - JLH	REVISED -
		DATE - MARCH 2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COUNTY HIGHWAY #4
EROSION AND SEDIMENT CONTROL PLAN**

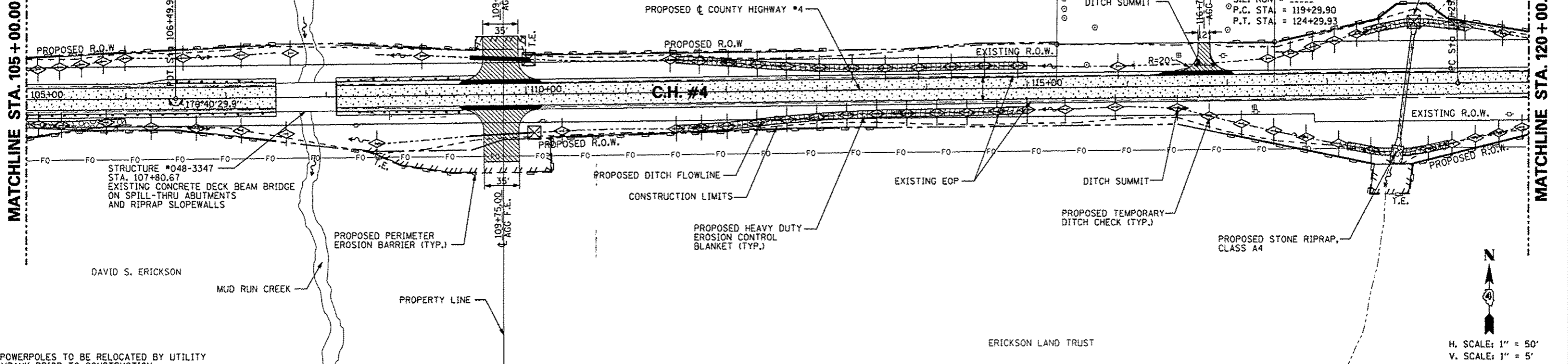
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	52
COUNTY HIGHWAY #4		CONTRACT NO. 89614		
FED ROAD DIST NO. 4		ILLINOIS FED. AID PROJECT RS-0393 (10/9)		

SCALE: 1"=50' SHEET NO. 52 OF 174 SHEETS STA. 90+00.00 TO STA. 105+00.00

JOHN H SCHLAF

GAIL L. INGLES

JOHN H SCHLAF

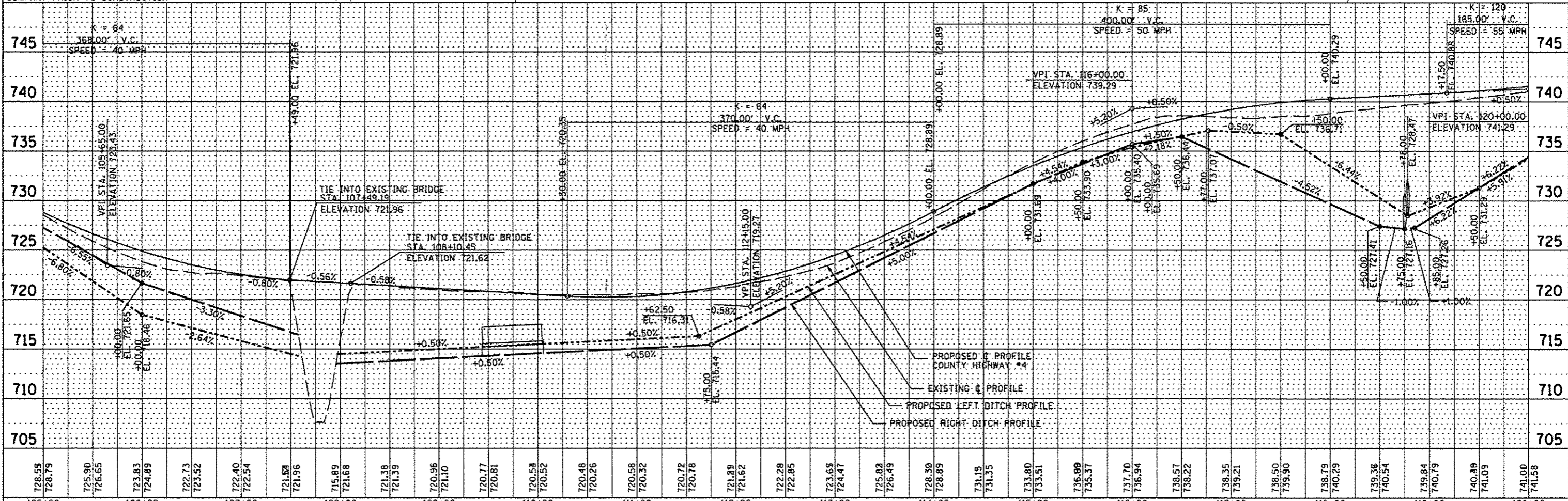


PROP. CURVE PRCH4-2
 PI STA. = 121+79.92
 $\Delta = 1^\circ 18' 24''$ (RT)
 $D = 0^\circ 15' 41''$
 $R = 21,925.00'$
 $T = 250.03'$
 $L = 500.04'$
 $E = 1.43'$
 $\theta = \dots$
 $T.R. = \dots$
 $S.E. RUN = \dots$
 $P.C. STA. = 119+29.90$
 $P.T. STA. = 124+29.93$

DATE
BY
PROJ. NO.
PROJ. NAME
NOTE BOOK NO.
DATE
BY
PROJ. NO.
PROJ. NAME
NOTE BOOK NO.
DATE
BY
PROJ. NO.
PROJ. NAME
NOTE BOOK NO.

DATE
BY
PROJ. NO.
PROJ. NAME
NOTE BOOK NO.
DATE
BY
PROJ. NO.
PROJ. NAME
NOTE BOOK NO.
DATE
BY
PROJ. NO.
PROJ. NAME
NOTE BOOK NO.

• POWERPOLES TO BE RELOCATED BY UTILITY COMPANY PRIOR TO CONSTRUCTION

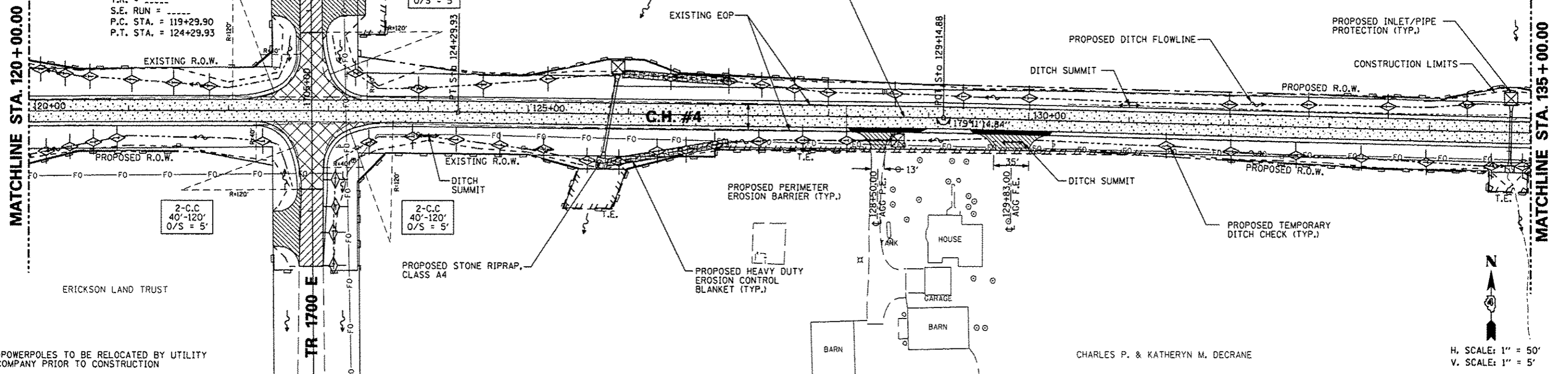


N
 H. SCALE: 1" = 50'
 V. SCALE: 1" = 5'

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY #4 EROSION AND SEDIMENT CONTROL PLAN	SECTION 12-00001-01-RS	COUNTY KNOX	TOTAL SHEET NO. 174	SHEET NO. 53
#FILE#		DRAWN	REVISED						
		CHECKED	REVISED						
		DATE		MARCH 2013	SCALE: 1"=50'	SHEET NO. 53 OF 174 SHEETS	STA. 105+00.00 TO STA. 120+00.00	CONTRACT NO. 89614	(ILLINOIS) FED. AID PROJECT RS-0393 (05)

JOHN H. SCHLAF
 PROP. CURVE PRCH4-2
 PI STA. = 121+79.92
 $\Delta = 1^\circ 18' 24''$ (RT)
 $D = 0^\circ 15' 41''$
 $R = 21,925.00'$
 $T = 250.03'$
 $L = 500.04'$
 $E = 1.43'$
 $\theta = \dots$
 T.R. = \dots
 S.E. RUN = \dots
 P.C. STA. = 119+29.90
 P.T. STA. = 124+29.93

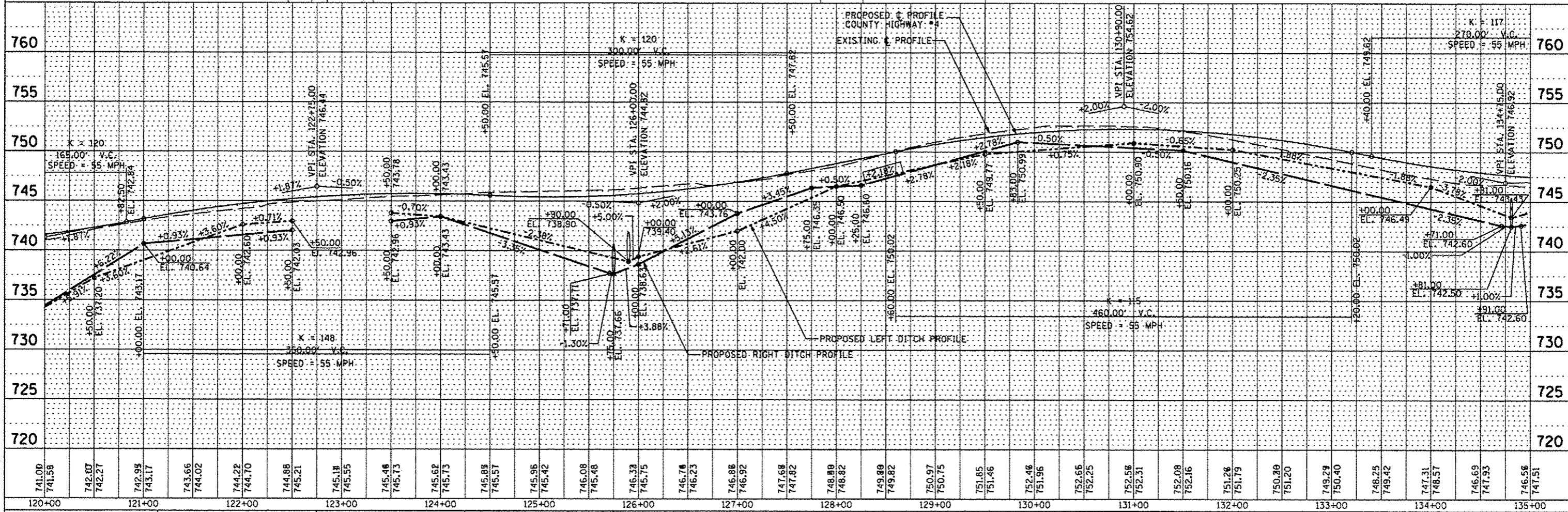
EDWARD E. & PATSY J.
 EKSTEDT, TRUSTEE



*POWERPOLES TO BE RELOCATED BY UTILITY COMPANY PRIOR TO CONSTRUCTION

CHARLES P. & KATHERYN M. DECRANE

H. SCALE: 1" = 50'
 V. SCALE: 1" = 5'



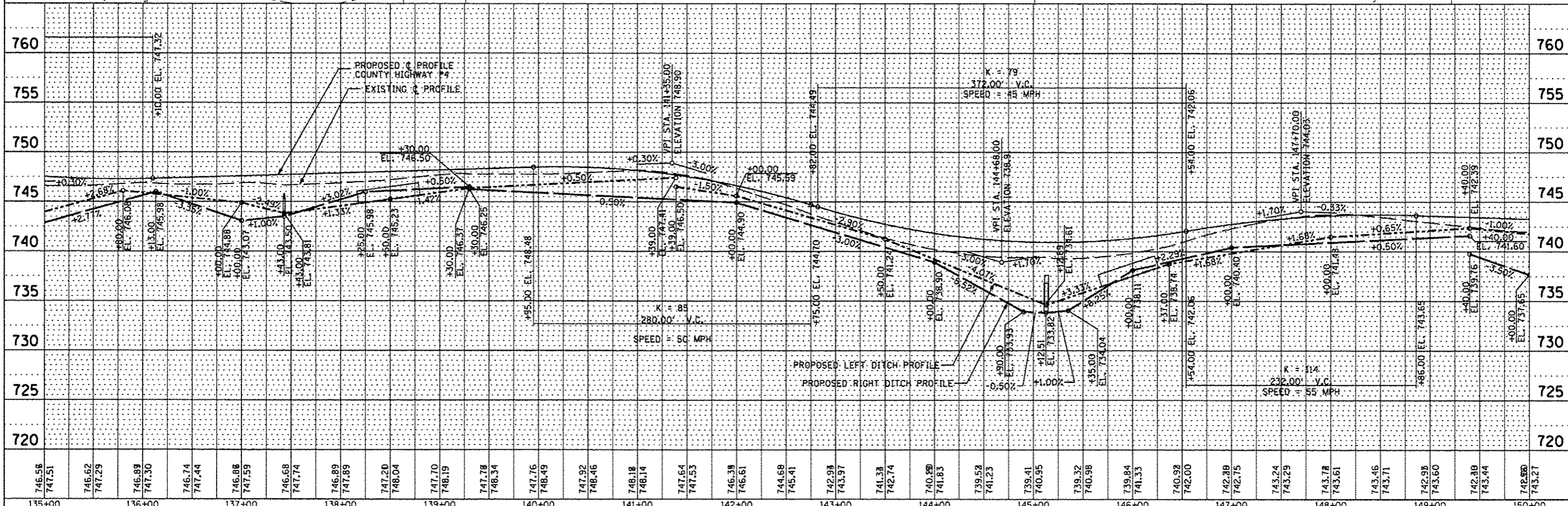
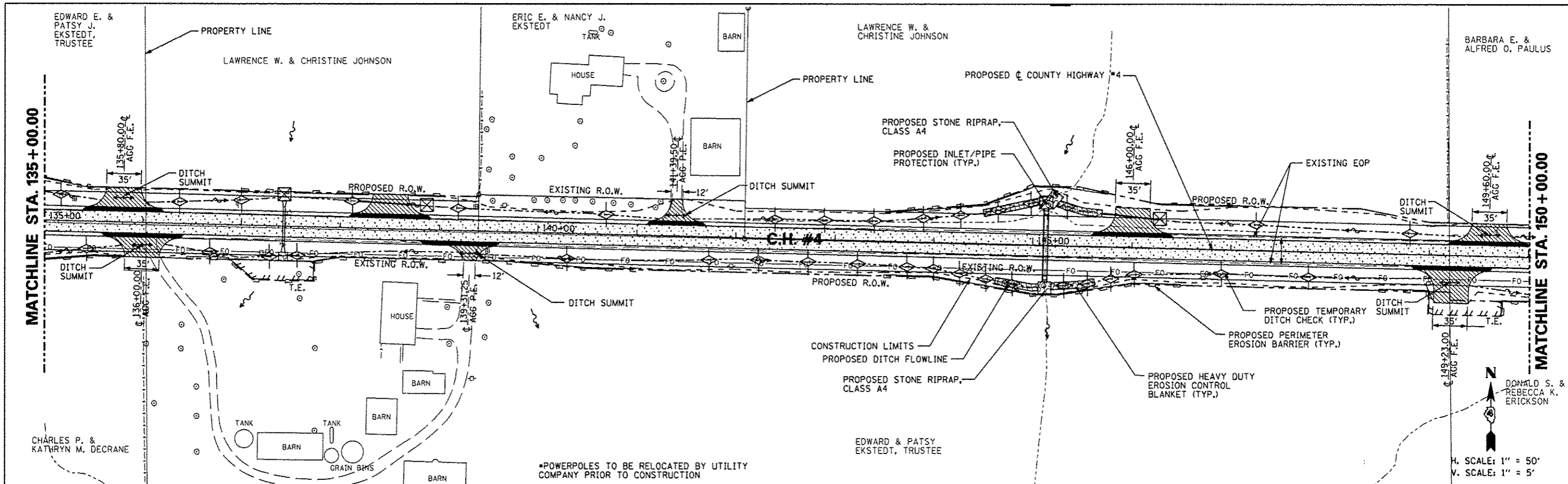
FILE NAME	USER NAME	DESIGNED - AMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION COUNTY HIGHWAY #4 EROSION AND SEDIMENT CONTROL PLAN	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - AMH	REVISED -		393	12-0001-01-RS	KNOX	174	54
		CHECKED - JLH	REVISED -		COUNTY HIGHWAY #4		CONTRACT NO. 89614		
		DATE - MARCH 2013	REVISED -		FED ROAD DIST NO. 4		ILLINOIS FED. AID PROJECT RS-0393 (105)		

PLAN	DATE
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	

PROFILE	DATE
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	

DATE	
BY	
PLAN	
NOTE BOOK	
NO.	
NO.	
NO.	

DATE	
BY	
PROFILE	
NOTE BOOK	
NO.	
NO.	
NO.	



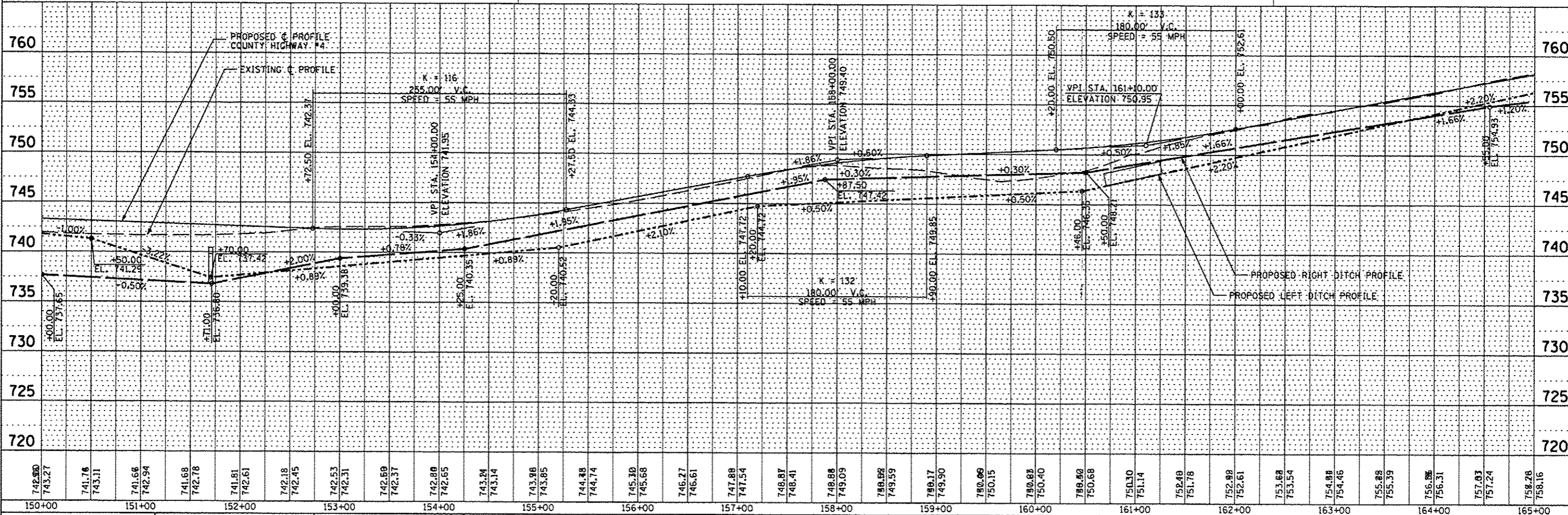
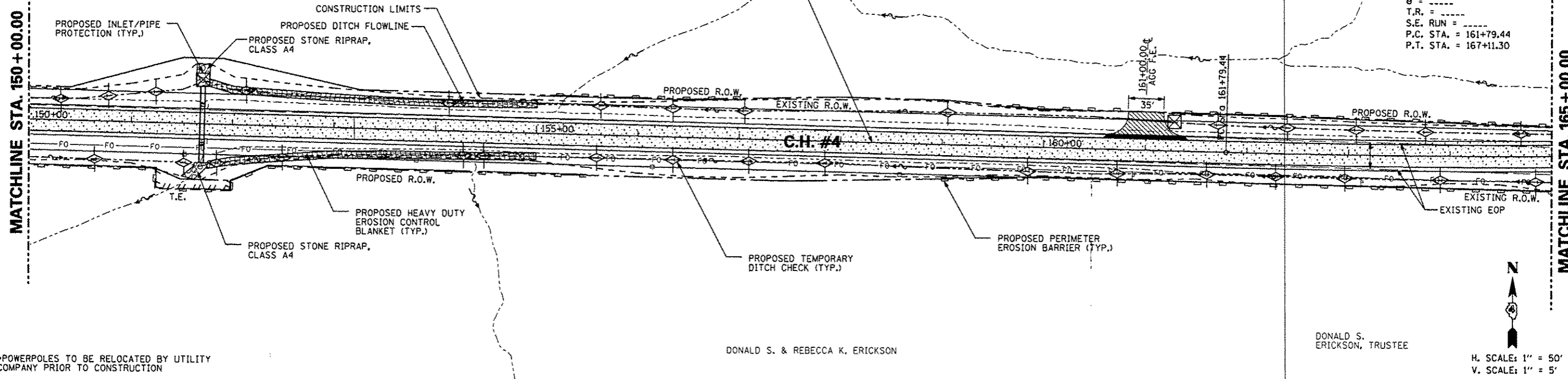
FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		COUNTY HIGHWAY #4 EROSION AND SEDIMENT CONTROL PLAN		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#	#USER#	AMH	AMH					393	12-00001-01-RS	KNOX	174	55	
		CHECKED	REVISED					COUNTY HIGHWAY #4		CONTRACT NO. 89614			
		JLH	REVISED					FED ROAD DIST NO. 4		ILLINOIS FED. AID PROJECT RS-0393 (105)			
		DATE	REVISED					SCALE: 1"=50'		SHEET NO. 55 OF 174 SHEETS		STA. 135+00.00 TO STA. 150+00.00	
		MARCH 2013											

BARBARA E. & ALFRED O. PAULUS

GRACE E. EDWARDS

PROP. CURVE PRCH4-3
 PI STA. = 164+45.42
 $\Delta = 2^\circ 46' 13''$ (LT)
 $D = 0^\circ 31' 15''$
 $R = 11,000.00'$
 $L = 531.87'$
 $E = 3.22'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 161+79.44$
 $P.T. STA. = 167+11.30$

DATE	
BY	
REVISION	
PLANNED	
ALIGNED	
CHECKED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	



DATE	
BY	
REVISION	
PLANNED	
CHECKED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

FILE NAME	USER NAME * USER *	DESIGNED - AMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY #4 EROSION AND SEDIMENT CONTROL PLAN	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILE#		DRAWN - AMH	REVISED -			393	12-00001-01-RS	KNOX	174	56
PLOT SCALE * SCALE *		CHECKED - JLH	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614		
PLOT DATE * DATE *		DATE - MARCH 2013	REVISED -			SCALE: 1"=50'		SHEET NO. 56 OF 174 SHEETS		STA. 150+00.00 TO STA. 165+00.00
						FED ROAD DIST NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (105)				

PROP. CURVE PRCH4-3
 PI STA. = 164+45.42
 $\Delta = 2^{\circ} 46' 13''$ (LT)
 $D = 0^{\circ} 31' 15''$
 $R = 11,000.00'$
 $T = 265.98'$
 $L = 531.87'$
 $E = 3.22'$
 $\theta =$
 T.R. =
 S.E. RUN =
 P.C. STA. = 161+79.44
 P.T. STA. = 167+11.30

GRACE E. EDWARDS

WILLIS E. & ANN LARSON

2-C.C
 40'-120'
 O/S = 5'

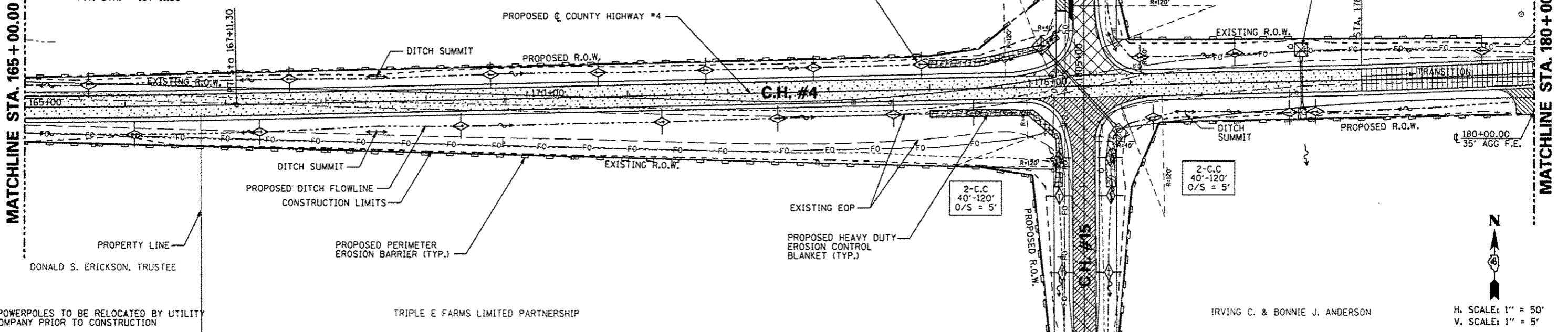
2-C.C
 40'-120'
 O/S = 5'

2-C.C
 40'-120'
 O/S = 5'

2-C.C
 40'-120'
 O/S = 5'

DATE	BY

DATE	BY

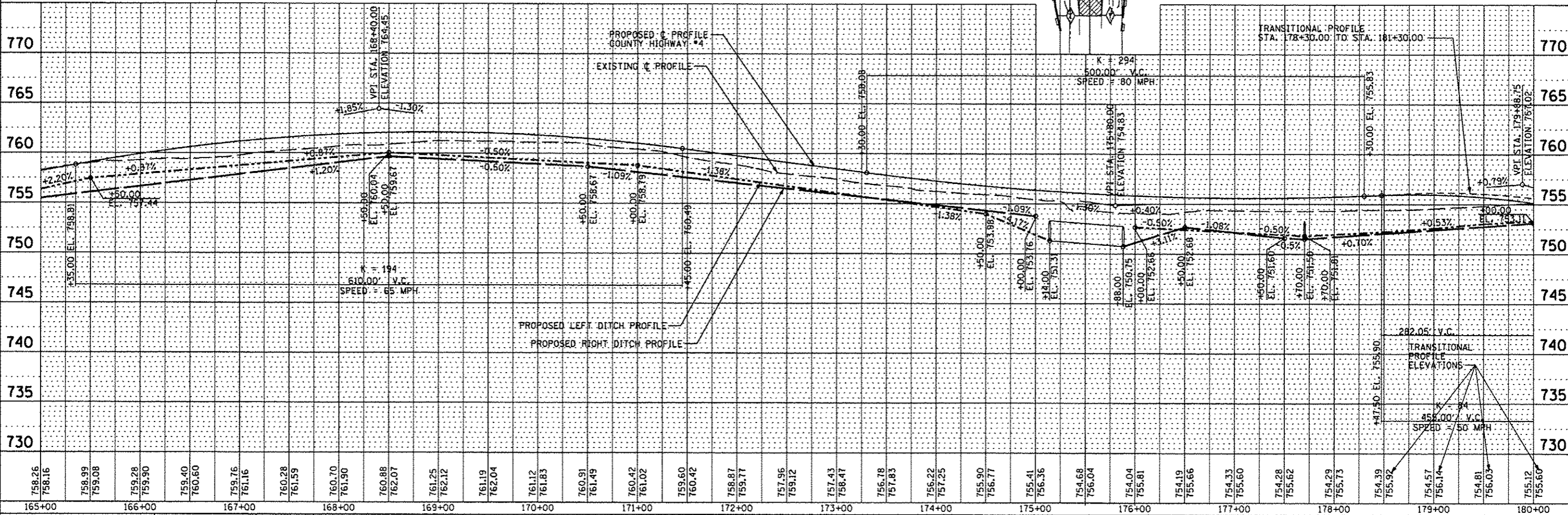


*POWERPOLES TO BE RELOCATED BY UTILITY COMPANY PRIOR TO CONSTRUCTION

TRIPLE E FARMS LIMITED PARTNERSHIP

IRVING C. & BONNIE J. ANDERSON

H. SCALE: 1" = 50'
 V. SCALE: 1" = 5'



758.26	758.16	759.99	759.08	759.28	759.90	759.40	760.60	759.76	761.16	760.28	761.59	760.70	761.90	760.88	762.07	761.25	762.12	761.19	762.04	761.12	761.83	760.91	761.49	760.42	761.02	759.60	760.42	758.87	759.77	757.96	759.12	757.43	758.47	756.78	757.83	756.22	757.25	755.90	756.77	755.41	756.36	754.68	756.04	754.04	755.81	754.19	755.66	754.33	755.60	754.28	755.62	754.29	755.73	754.39	755.92	754.57	756.14	754.81	756.03	755.12	755.60
165+00	166+00	167+00	168+00	169+00	170+00	171+00	172+00	173+00	174+00	175+00	176+00	177+00	178+00	179+00	180+00																																														

FILE NAME :	USER NAME : *USER*	DESIGNED - AMH	REVISED -
*FILE# :		DRAWN - AMH	REVISED -
	PLOT SCALE : *SCALE*	CHECKED - JLM	REVISED -
	PLOT DATE : *DATE*	DATE - MARCH 2013	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

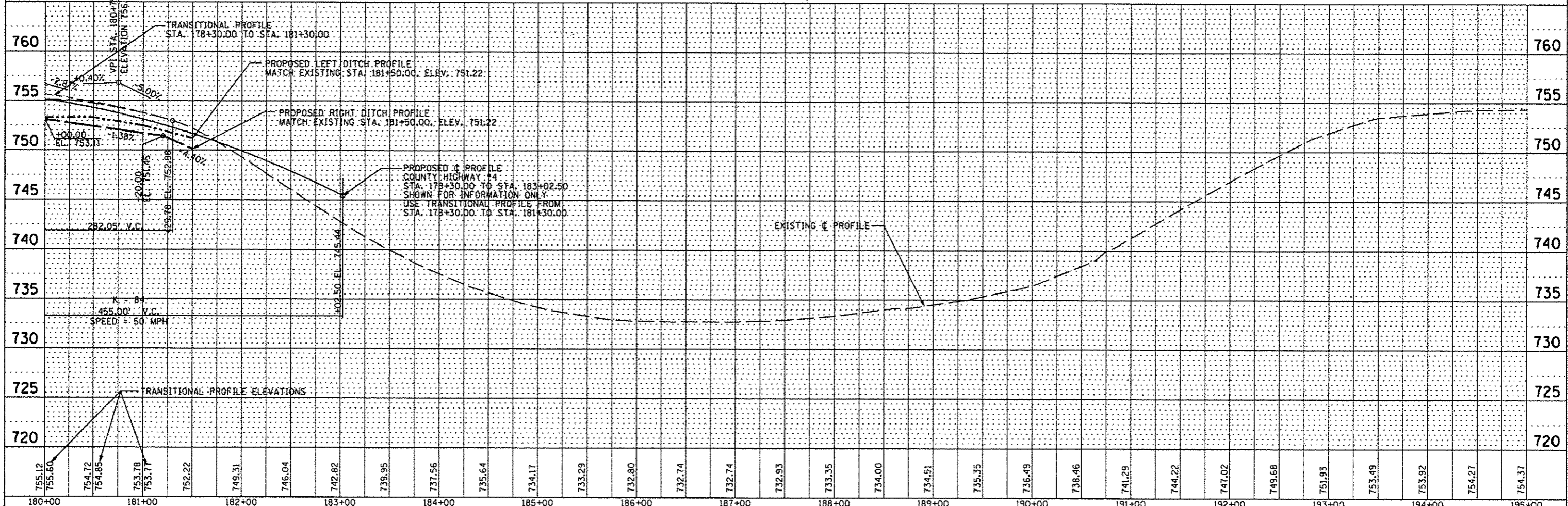
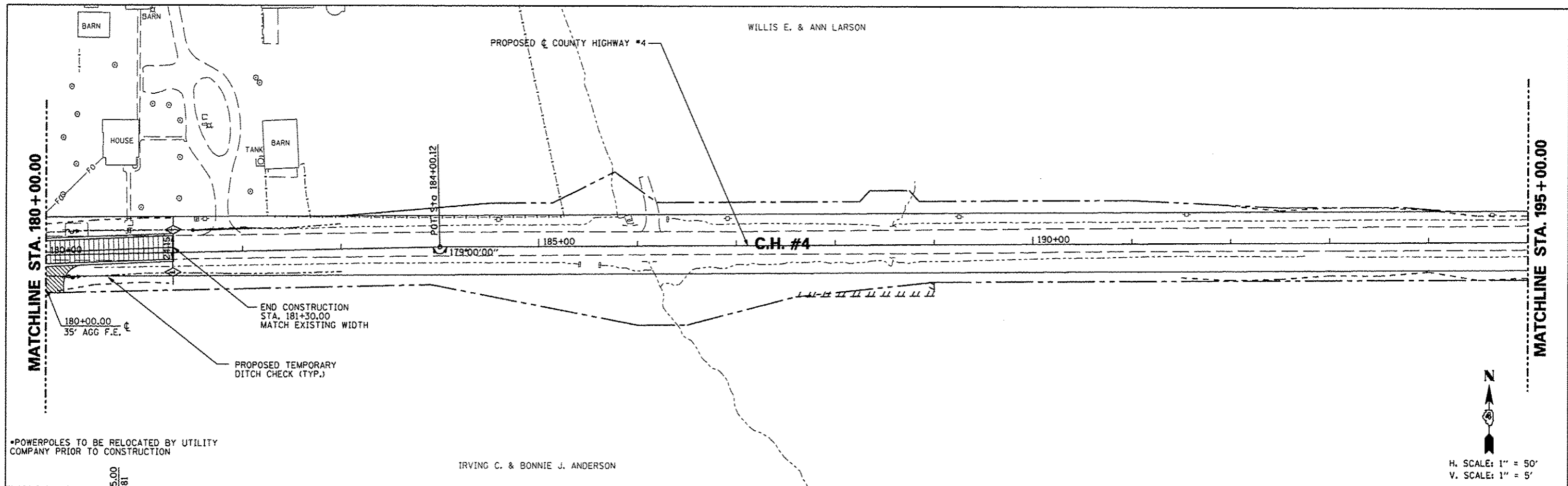
COUNTY HIGHWAY #4 EROSION AND SEDIMENT CONTROL PLAN
--

SCALE: 1"=50'	SHEET NO. 57 OF 174 SHEETS	STA. 165+00.00 TO STA. 180+00.00
---------------	----------------------------	----------------------------------

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
393	12-00001-01-RS	KNOX	174	57
COUNTY HIGHWAY #4	CONTRACT NO. 89614			
FED ROAD DIST NO. 4 ILLINOIS FED. AID PROJECT RS-0393 11057				

DATE	
BY	
DESIGNED	
PLANNED	
ALIGNED	
CHECKED	
NOTE BOOK	
NO.	

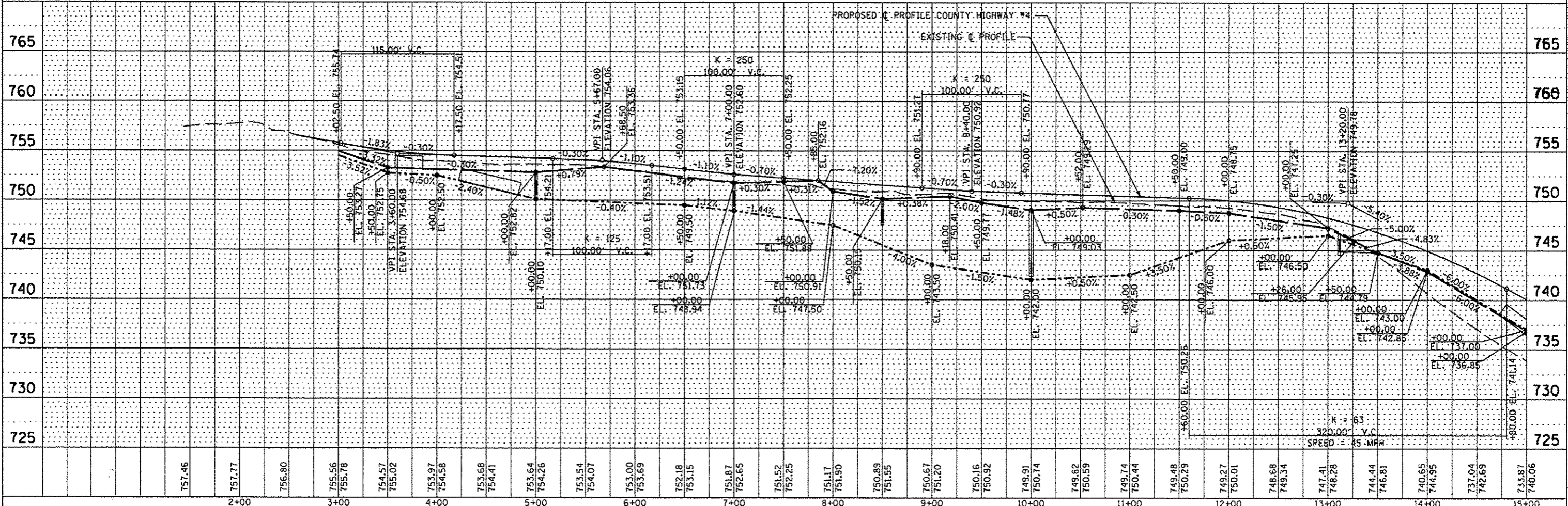
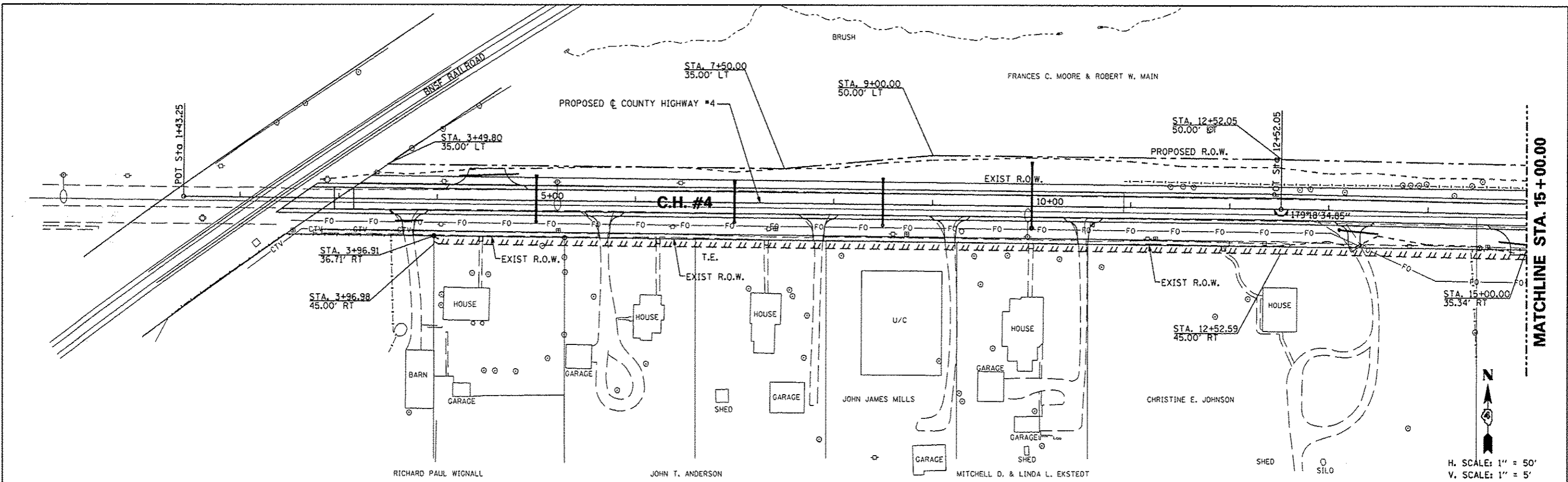
DATE	
BY	
DESIGNED	
PLANNED	
CHECKED	
NOTE BOOK	
NO.	



FILE NAME	USER NAME * USER *	DESIGNED - AMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY #4 EROSION AND SEDIMENT CONTROL PLAN	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILE#		DRAWN - AMH	REVISED -			393	12-00001-01-RS	KNOX	174	58
PLOT SCALE * SCALE*		CHECKED - JLH	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614		
PLOT DATE * DATE*		DATE - MARCH 2013	REVISED -			FED ROAD DIST NO. 4		ILLINOIS FED. AID PROJECT RS-0393 (105)		

PLAN	DATE
CONVERTED	
PLOTTED	
NOTED	
NO. OF SHEETS	
NO. OF SHEETS CHECKED	
NO. OF SHEETS REVISIONS	
NO. OF SHEETS FILED	
NO. OF SHEETS	

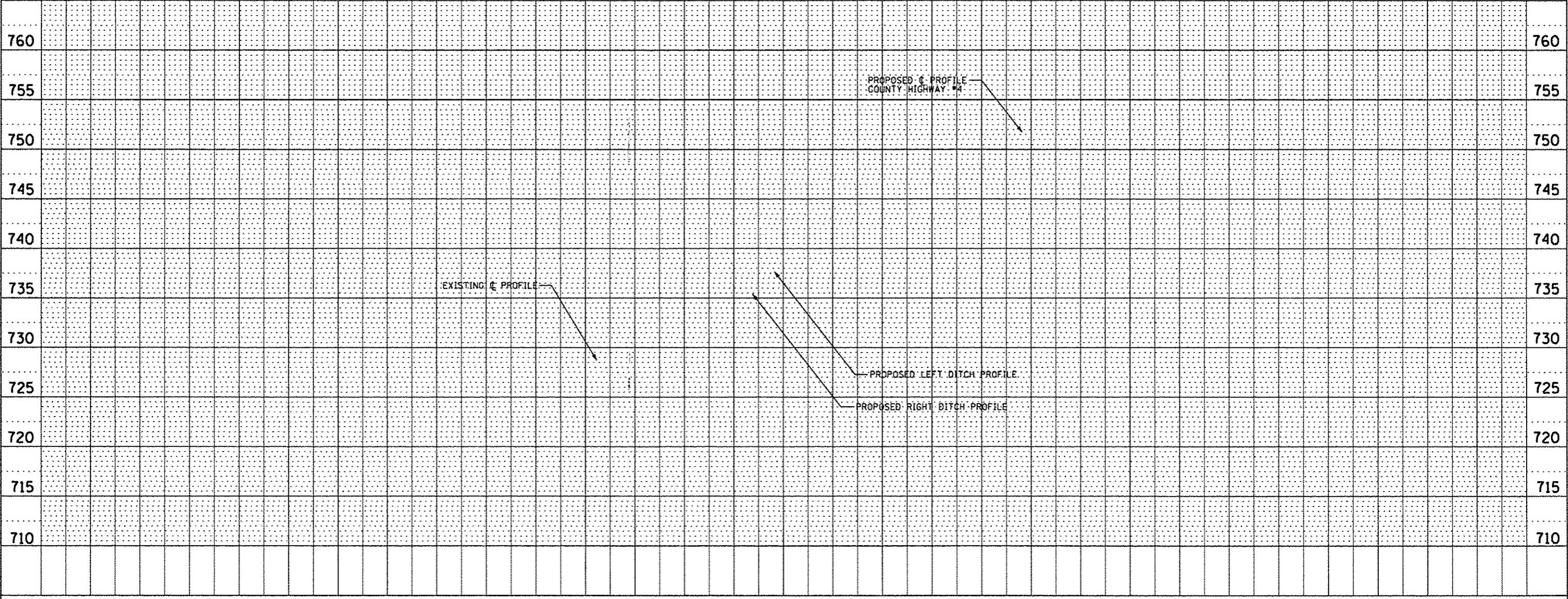
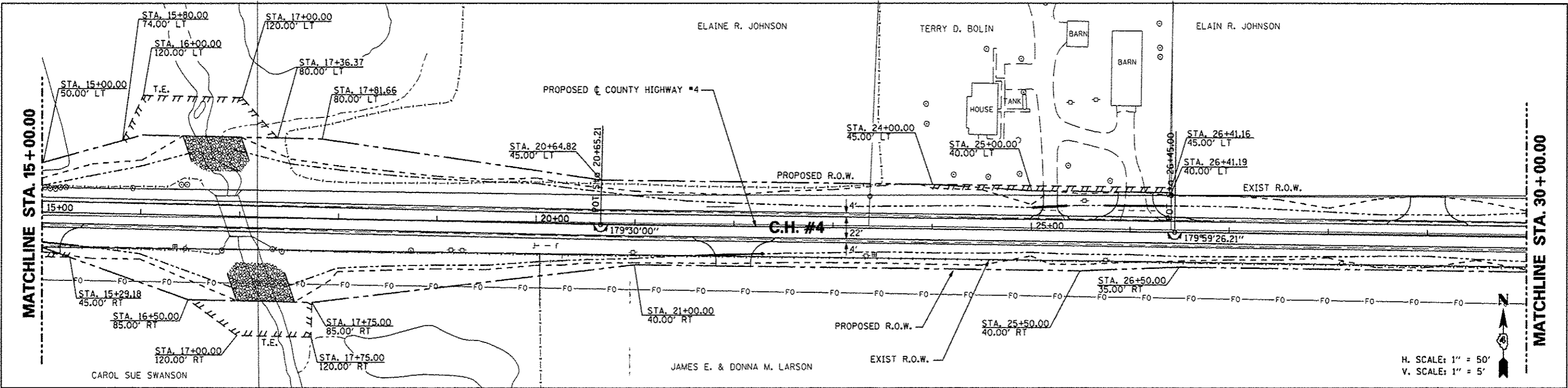
PROFILE	DATE
SUBMITTED	
PLOTTED	
NOTED	
NO. OF SHEETS	
NO. OF SHEETS CHECKED	
NO. OF SHEETS REVISIONS	
NO. OF SHEETS FILED	
NO. OF SHEETS	



FILE NAME	USER NAME * USER*	DESIGNED - AMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY #4 PROPOSED RIGHT OF WAY & EASEMENT SHEET	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - AMH	REVISED -			393	12-00001-01-RS	KNOX	174	59
PLOT SCALE * SCALE*		CHECKED - JLH	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614		
PLOT DATE * DATE*		DATE - MARCH 2013	REVISED -			SCALE: 1"=50'		SHEET NO. 59 OF 174 SHEETS		STA. 1+43.25 TO STA. 15+00.00

DATE	
BY	
REVISIONS	
PLANNED	
ALIGNED	
FILED	
NO.	
PLAN	
NOTE BOOK	
NO.	

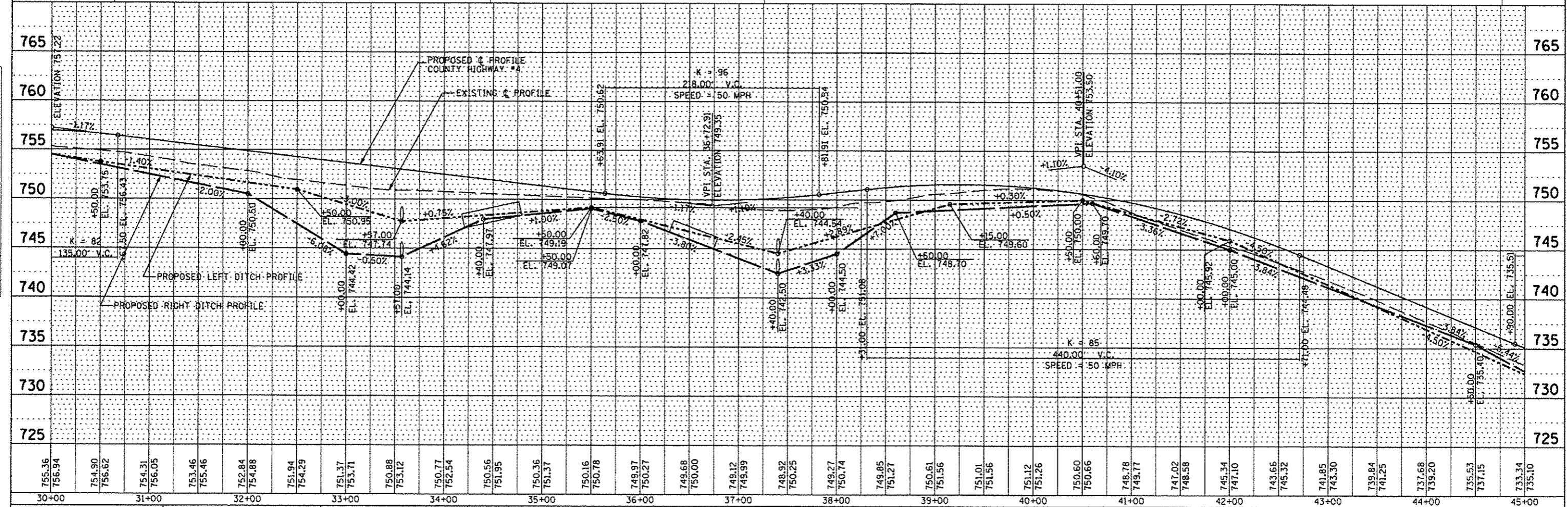
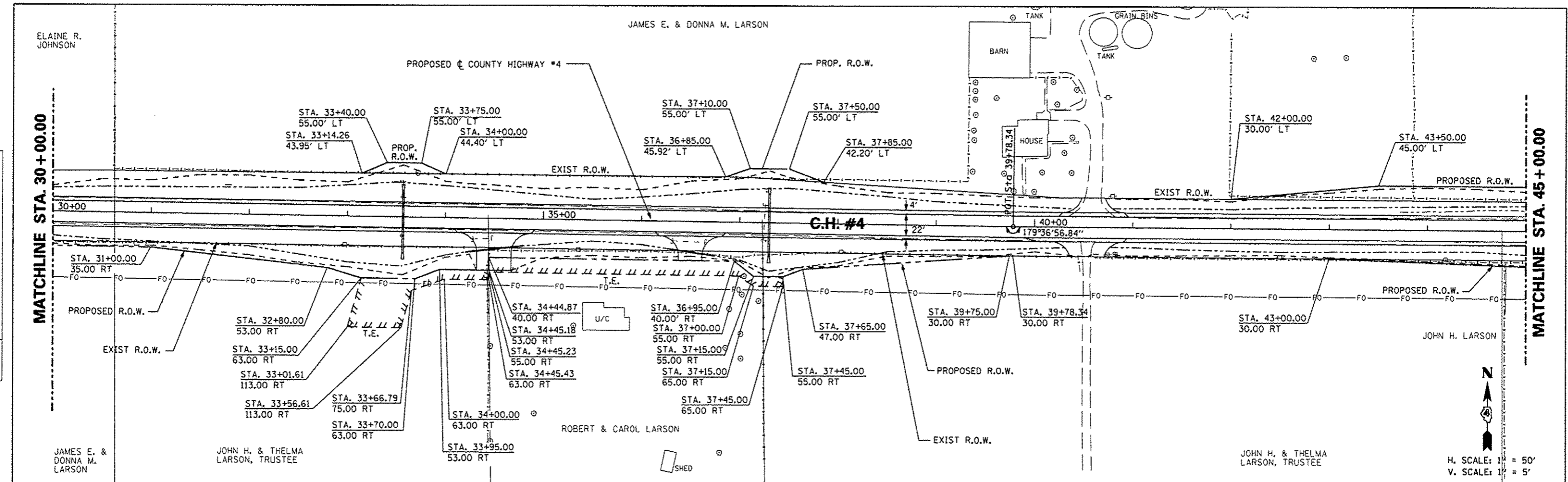
DATE	
BY	
REVISIONS	
PLANNED	
ALIGNED	
FILED	
NO.	
PROFILE	
NOTE BOOK	
NO.	



FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY #4 PROPOSED RIGHT OF WAY & EASEMENT SHEET	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN	REVISED			393	12-00001-01-RS	KNOX	174	60
		CHECKED	REVISED			COUNTY HIGHWAY #4		CONTRACT NO. 89614		
		DATE	REVISED			FED ROAD DIST NO. 4		ILLINOIS FED. AID PROJECT		85-0393 (105)
					SCALE: 1"=50'	SHEET NO. 60 OF 174 SHEETS		STA. 15+00.00 TO STA. 30+00.00		

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	

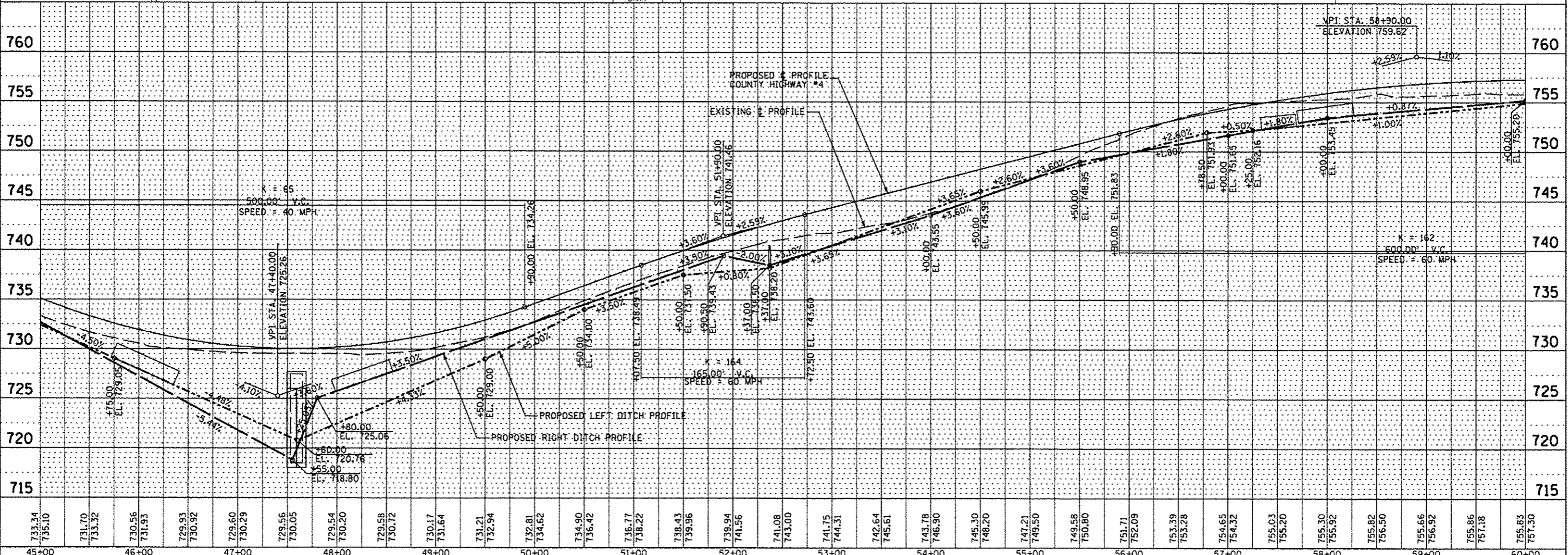
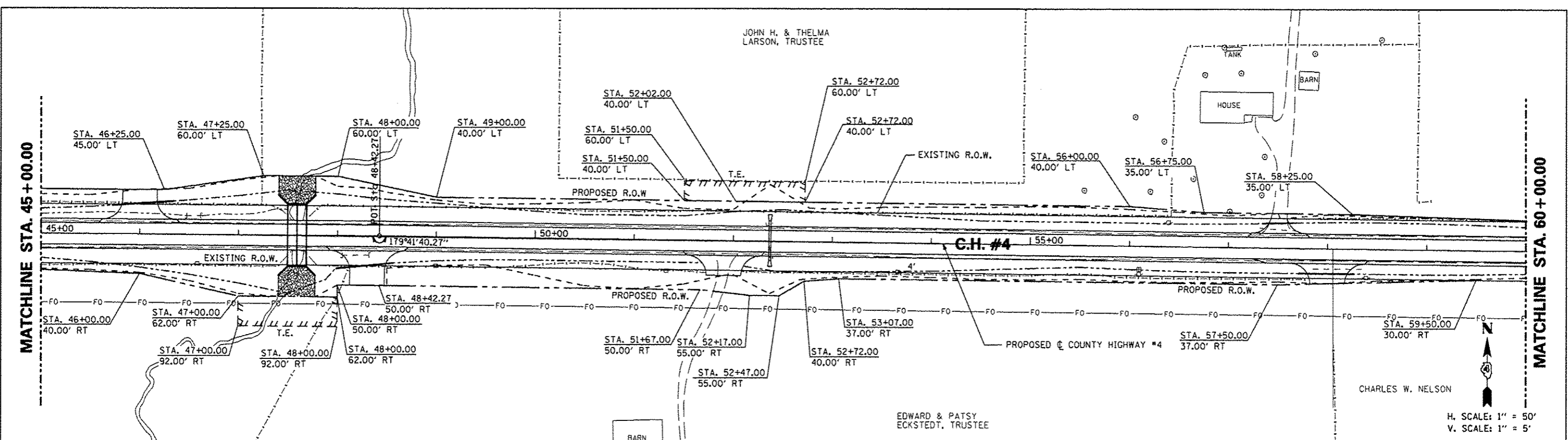
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	



FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS		COUNTY HIGHWAY #4		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#	*USER*	- AMH	-	DEPARTMENT OF TRANSPORTATION		PROPOSED RIGHT OF WAY & EASEMENT SHEET		393	12-00001-01-RS	KNOX	174	61
	PLOT SCALE	CHECKED	REVISED					COUNTY HIGHWAY #4		CONTRACT NO. 89614		
	SCALE	- JLH	-					FED ROAD DIST NO. 4		ILLINOIS FED. AID PROJECT RS-0393 (08)		
	PLOT DATE	DATE	REVISED									
	DATE	- MARCH 2013	-									

DATE	
BY	
PLAN	
NO. _____	
DATE	
BY	
PROFILE	
NO. _____	
DATE	
BY	

DATE	
BY	
PROFILE	
NO. _____	
DATE	
BY	



733.34	735.10	731.70	733.32	730.56	731.93	729.93	730.92	729.60	730.29	729.56	730.05	729.54	730.20	729.58	730.72	730.17	731.64	731.21	732.94	732.81	734.62	734.90	736.42	736.77	738.22	738.43	739.96	739.94	741.56	741.08	743.00	741.75	744.31	742.64	745.61	743.78	746.30	745.30	748.20	747.21	749.50	749.58	750.80	751.71	752.09	753.39	753.28	754.65	754.32	755.03	755.20	755.30	755.92	755.82	756.50	755.66	756.92	755.86	757.18	755.83	757.30
45+00	46+00	47+00	48+00	49+00	50+00	51+00	52+00	53+00	54+00	55+00	56+00	57+00	58+00	59+00	60+00																																														

FILE NAME	USER NAME	DESIGNED	REVISED
*FILE#	*USER*	- AMH	-
		DRAWN	REVISED
		- AMH	-
		CHECKED	REVISED
		- JLH	-
		DATE	REVISED
		- MARCH 2013	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

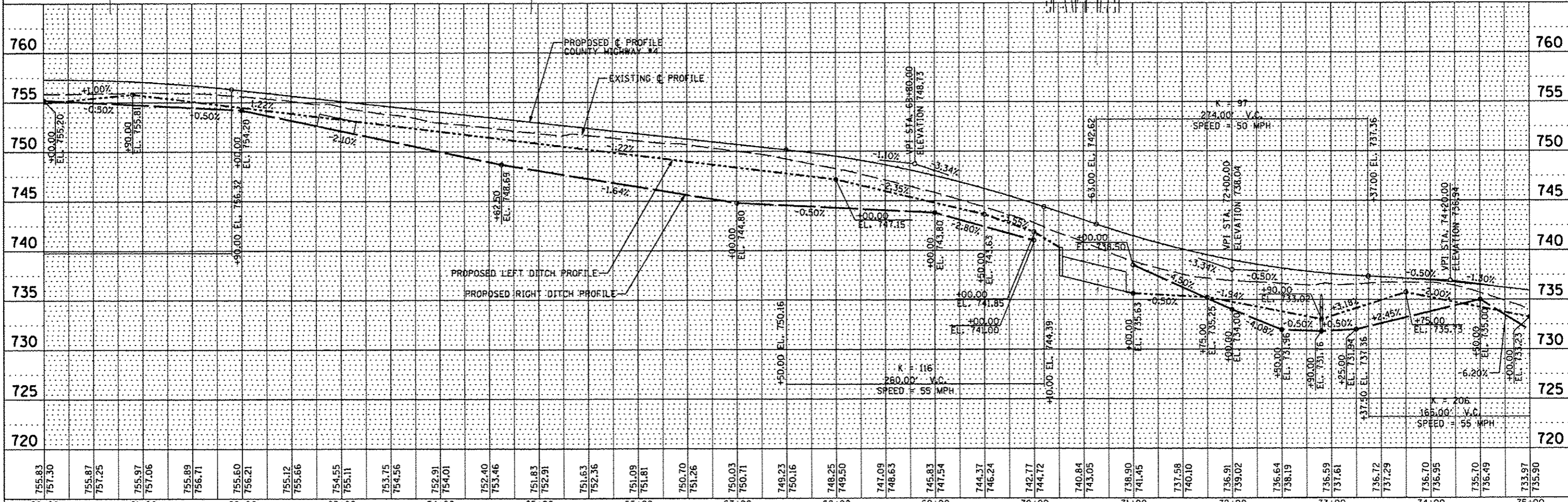
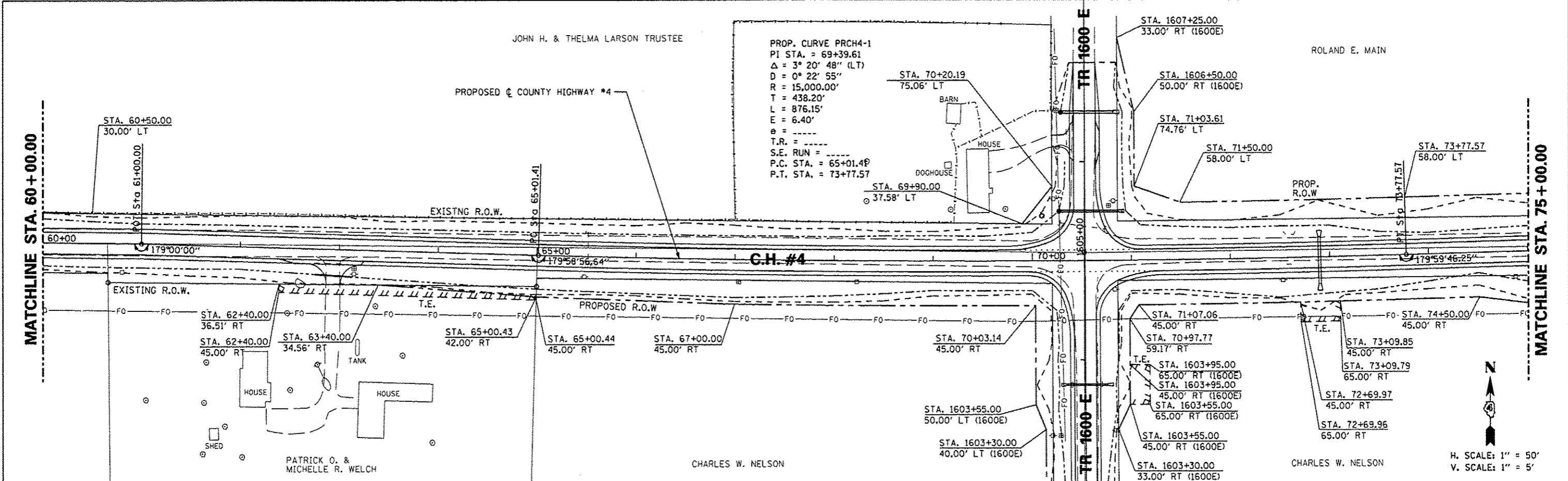
COUNTY HIGHWAY #4
PROPOSED RIGHT OF WAY & EASEMENT SHEET

SCALE: 1"=50' SHEET NO. 62 OF 174 SHEETS STA. 45+00.00 TO STA. 60+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	62
COUNTY HIGHWAY #4		CONTRACT NO. 89614		
FED ROAD DIST NO. 4		ILLINOIS FED. AID PROJECT RS-0393 (105)		

DATE	
BY	
PROJECT	
NO.	
DATE	
BY	
PROJECT	
NO.	
DATE	
BY	
PROJECT	
NO.	

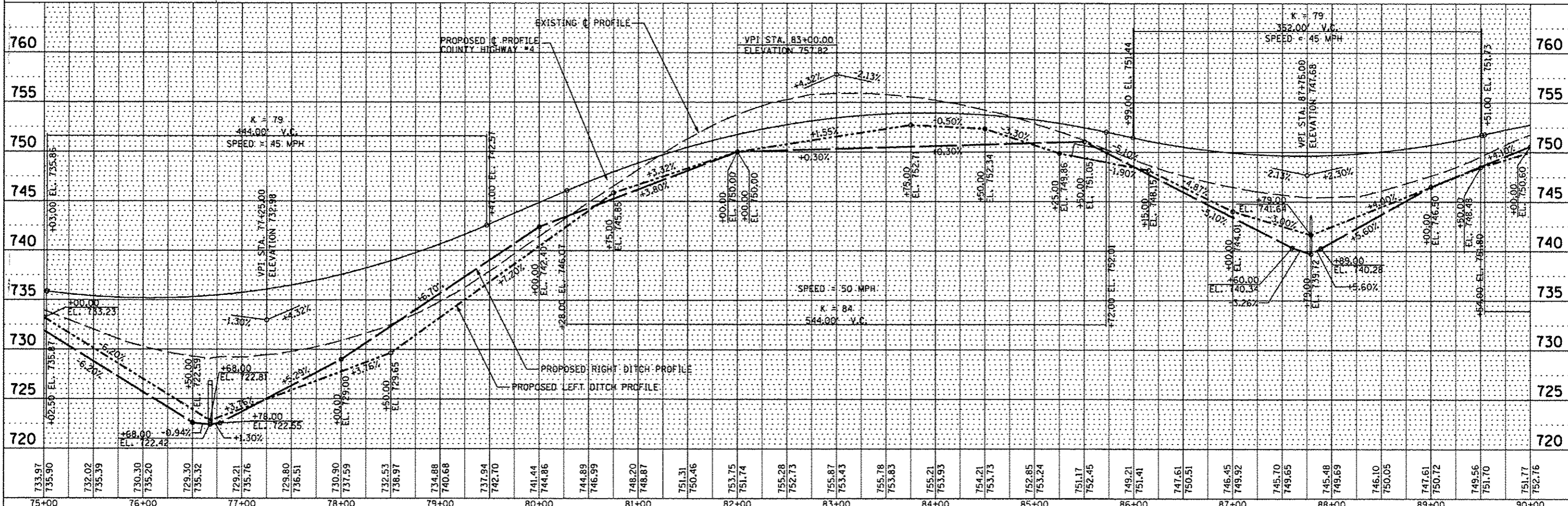
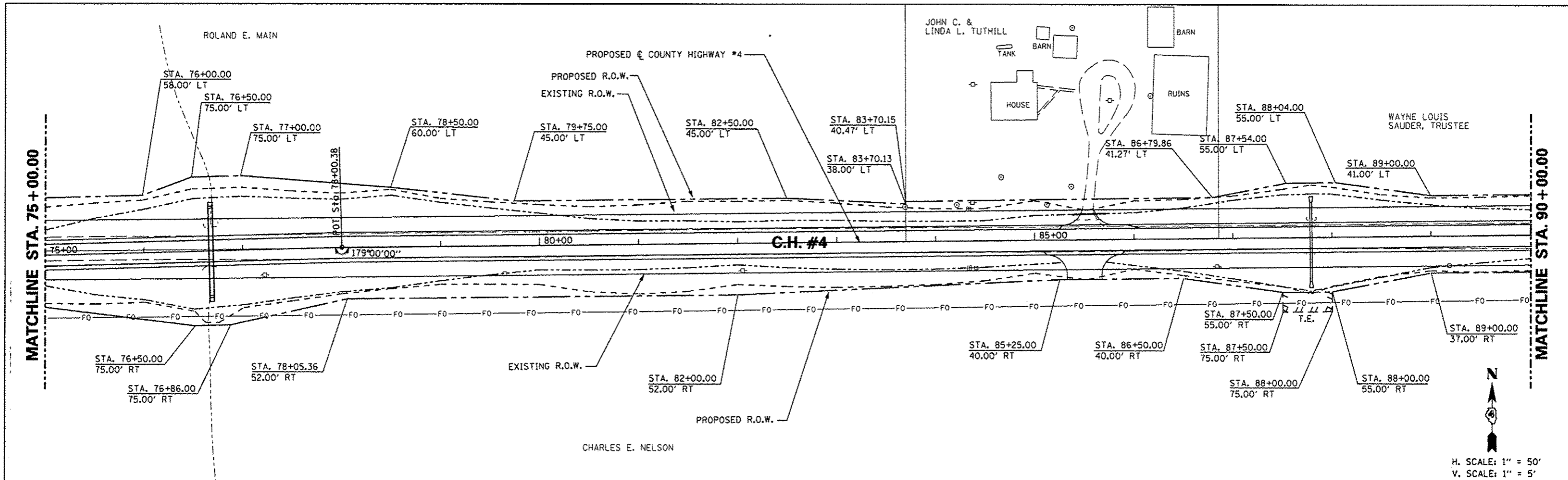
DATE	
BY	
PROJECT	
NO.	
DATE	
BY	
PROJECT	
NO.	
DATE	
BY	
PROJECT	
NO.	



FILE NAME	USER NAME * USER#	DESIGNED - AMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		COUNTY HIGHWAY #4		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS
#FILE#		DRAWN - AMH	REVISED -			393	12-00001-01-R5	KNOX	174	63	
		CHECKED - JLH	REVISED -	PROPOSED RIGHT OF WAY & EASEMENT SHEET		COUNTY HIGHWAY #4		CONTRACT NO. 89614		TOTAL SHEET NO. 63	
		DATE - MARCH 2013	REVISED -			SCALE: 1"=50'	SHEET NO. 63 OF 174 SHEETS	STA. 60+00.00 TO STA. 75+00.00	FED ROAD DIST NO. 4	ILLINOIS FED. AID PROJECT	RS-0393 (105)

DATE	
BY	
PLAN	SURVEYED
NOTE BOOK	ALIGNED
	RT. OF WAY CHECKED
	FILE NAME

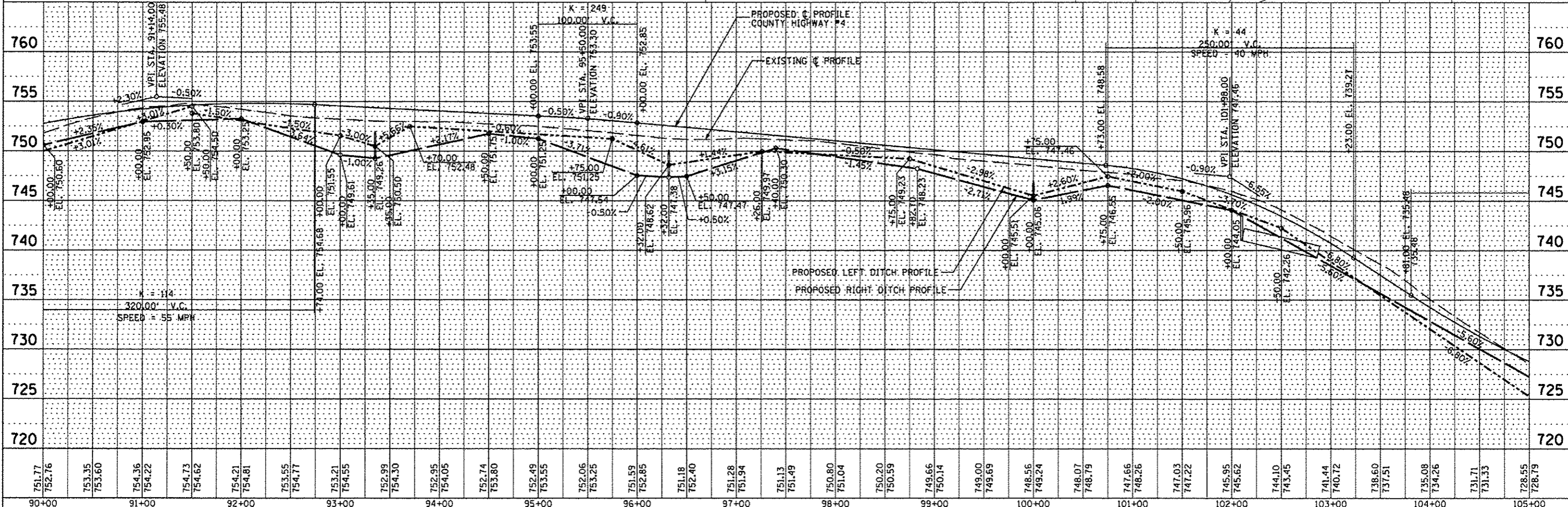
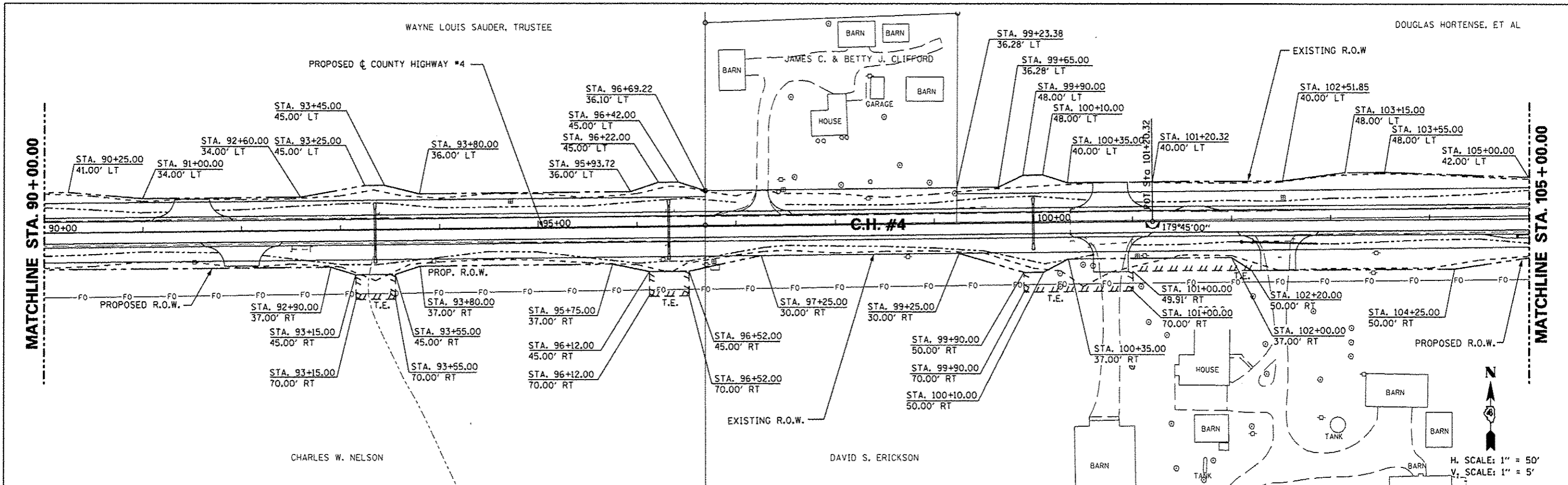
DATE	
BY	
PROFILE	SURVEYED
NOTE BOOK	GRADES CHECKED
	S.M. NOTED
	STRUCTURE NOTICES OK'D



FILE NAME :	USER NAME * #USER*	DESIGNED - AMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY #4 PROPOSED RIGHT OF WAY & EASEMENT SHEET		F.A.S. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#	PLOT SCALE * #SCALE*	DRAWN - AMH	REVISED -		393	12-00001-01-R5	KNOX	174	64		
	PLOT DATE * #DATE*	CHECKED - JLH	REVISED -		COUNTY HIGHWAY #4		CONTRACT NO. 89614				
		DATE - MARCH 2013	REVISED -		FED ROAD DIST NO. 4		ILLINOIS FED. AID PROJECT		RS-0393 (105)		

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	

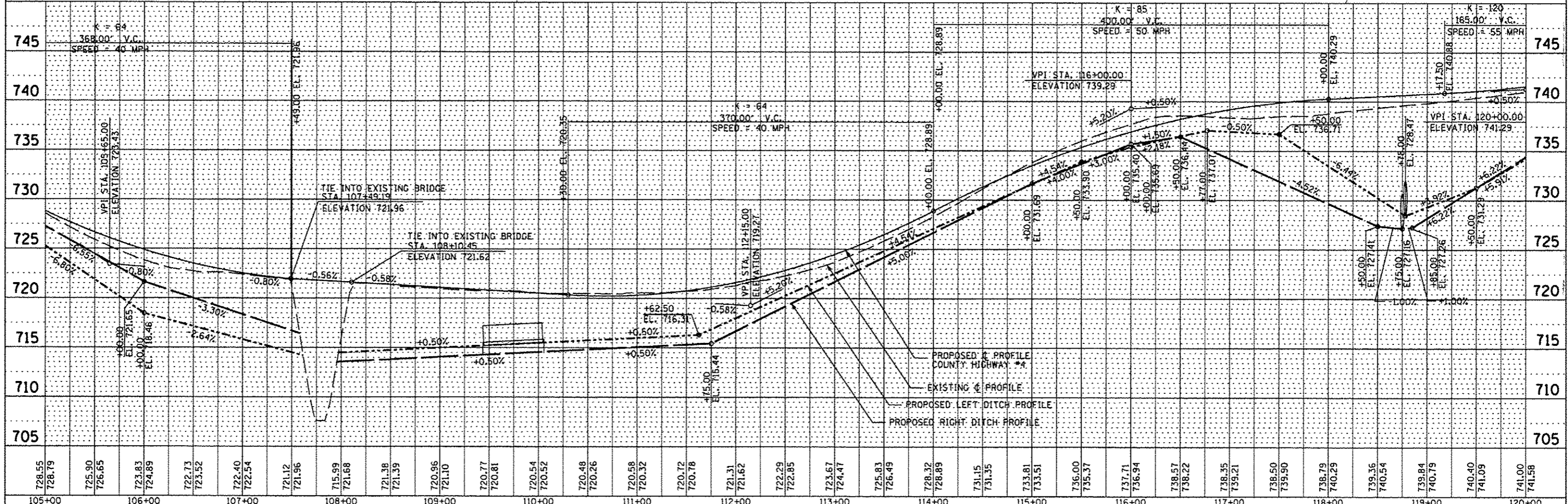
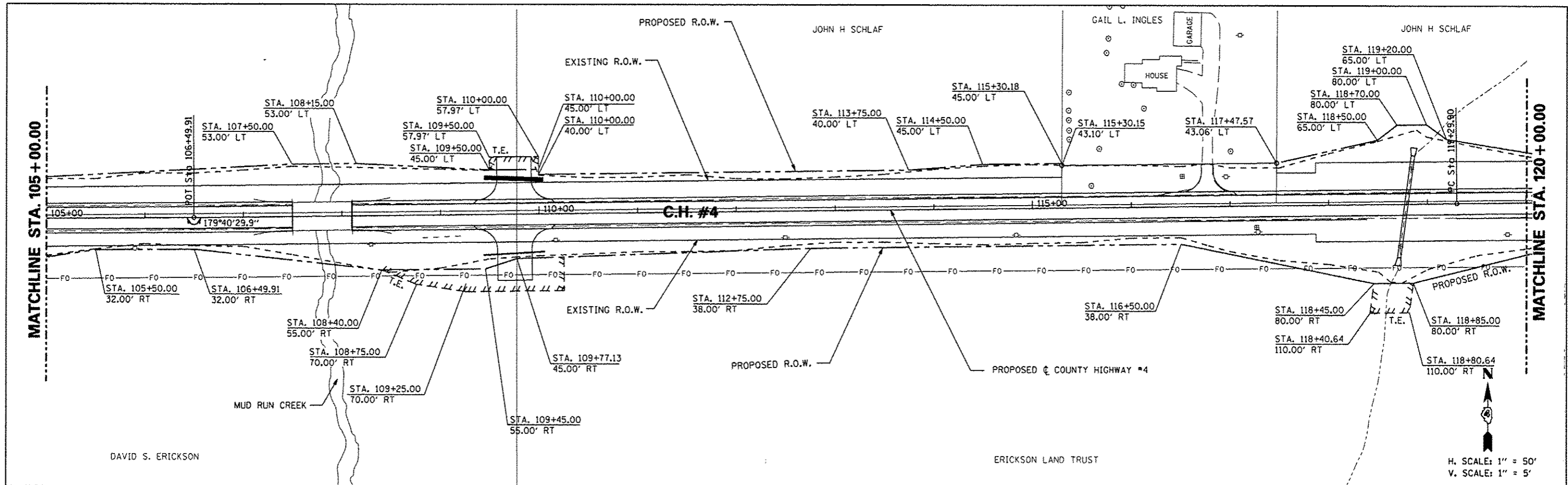
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	



FILE NAME *	USER NAME * USER*	DESIGNED - AMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY #4 PROPOSED RIGHT OF WAY & EASEMENT SHEET	F.A.S. SECTION COUNTY TOTAL SHEETS NO.
#FILE#		DRAWN - AMH	REVISED -			393 12-00001-01-R5 KNOX 174 65
PLOT SCALE * #SCALE*		CHECKED - JLH	REVISED -			COUNTY HIGHWAY #4 CONTRACT NO. 89614
PLOT DATE * #DATE*		DATE - MARCH 2013	REVISED -			FED ROAD DIST NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (105)

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	

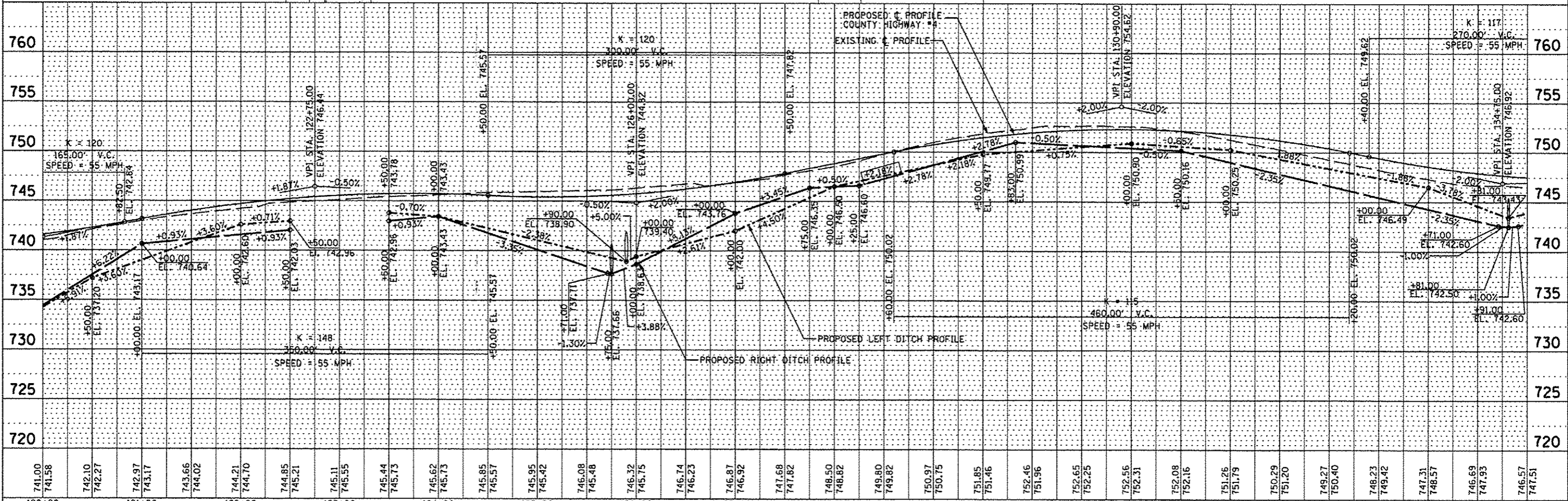
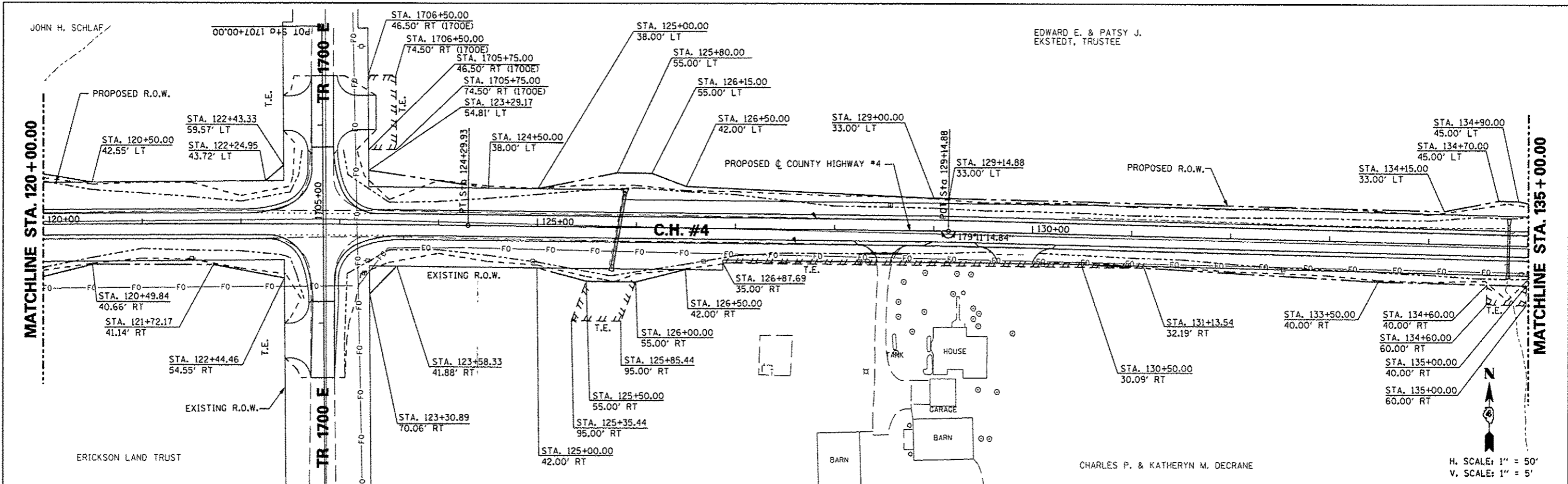
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	



FILE NAME *	USER NAME * USER*	DESIGNED - AMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY #4 PROPOSED RIGHT OF WAY & EASEMENT SHEET	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILE#		DRAWN - AMH	REVISED -			393	12-00001-01-RS	KNOX	174	66
PLOT SCALE * SCALE#		CHECKED - JLH	REVISED -			COUNTY HIGHWAY #4		CONTRACT NO. 89614		
PLOT DATE * DATE#		DATE - MARCH 2013	REVISED -			SCALE: 1"=50'		SHEET NO. 66 OF 174 SHEETS		STA. 105+00.00 TO STA. 120+00.00

DATE	BY

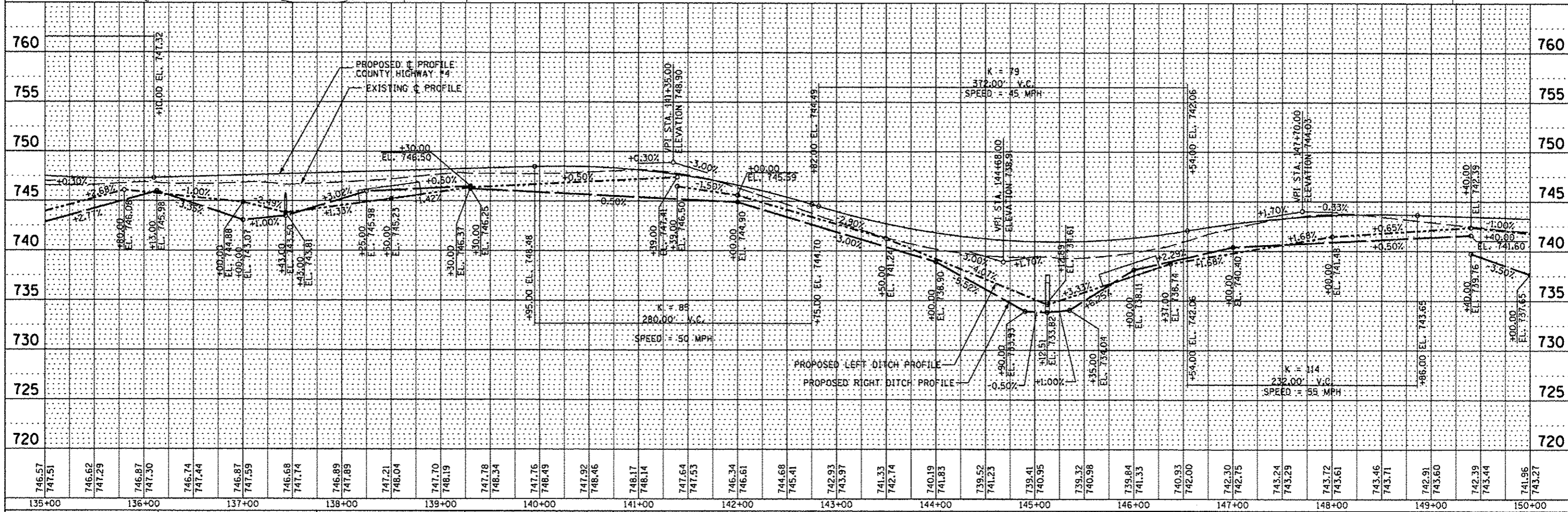
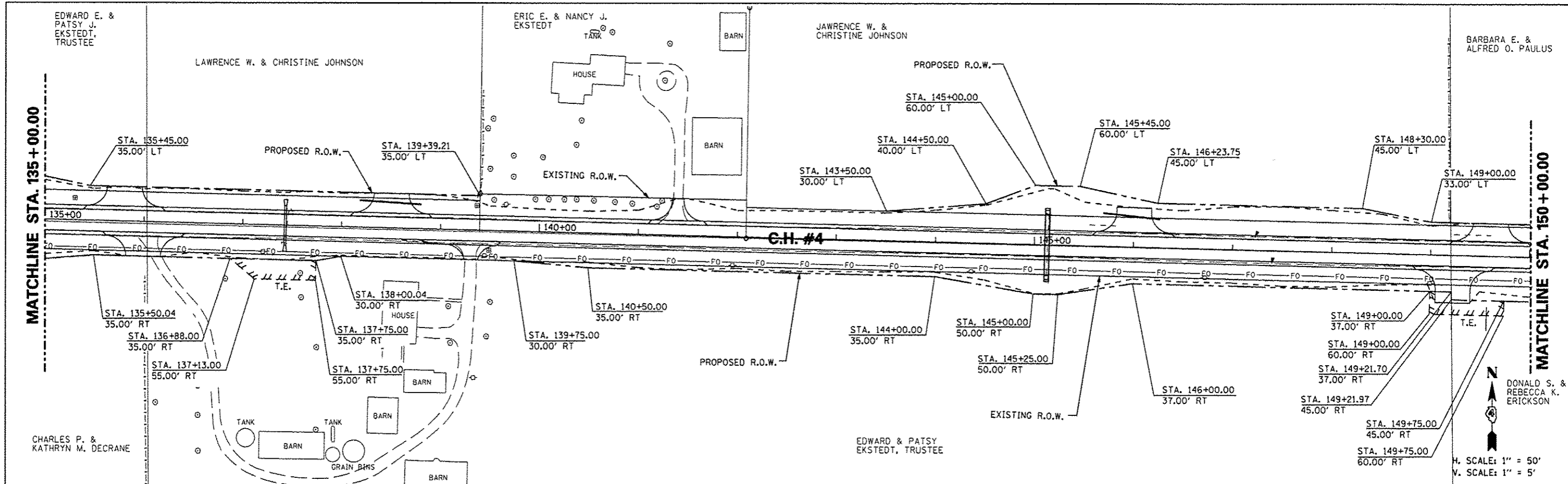
DATE	BY



741.00	741.58	742.10	742.27	742.97	743.17	743.66	744.02	744.21	744.70	744.85	745.21	745.11	745.55	745.44	745.73	745.62	745.73	745.85	745.57	745.95	745.42	745.21	745.08	745.48	746.32	745.75	746.74	746.23	746.87	746.92	747.68	747.82	748.50	748.82	749.80	749.82	750.97	750.75	751.85	751.46	752.46	751.96	752.65	752.25	752.56	752.31	752.08	752.16	751.26	751.79	750.29	751.20	749.27	750.40	748.23	749.42	747.31	748.57	746.69	747.93	746.57	747.51			
120+00	121+00	122+00	123+00	124+00	125+00	126+00	127+00	128+00	129+00	130+00	131+00	132+00	133+00	134+00	135+00																																																		
FILE NAME *		USER NAME *#USER*		DESIGNED - AMH		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		COUNTY HIGHWAY #4 PROPOSED RIGHT OF WAY & EASEMENT SHEET		P.A.S. RTE.		SECTION		COUNTY		TOTAL SHEETS		SHEET NO.																																													
#FILE#		PLOT SCALE *#SCALE*		CHECKED - JLH		REVISED -						393		12-00001-01-RS		KNOX		174		67																																													
		PLOT DATE *#DATE*		DATE - MARCH 2013		REVISED -						COUNTY HIGHWAY #4		ILLINOIS		FED. AID PROJECT		RS-0393 (105)		CONTRACT NO. 89614																																													
												SCALE: 1"=50'		SHEET NO. 67 OF 174 SHEETS		STA. 120+00.00 TO STA. 135+00.00																																																	

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	



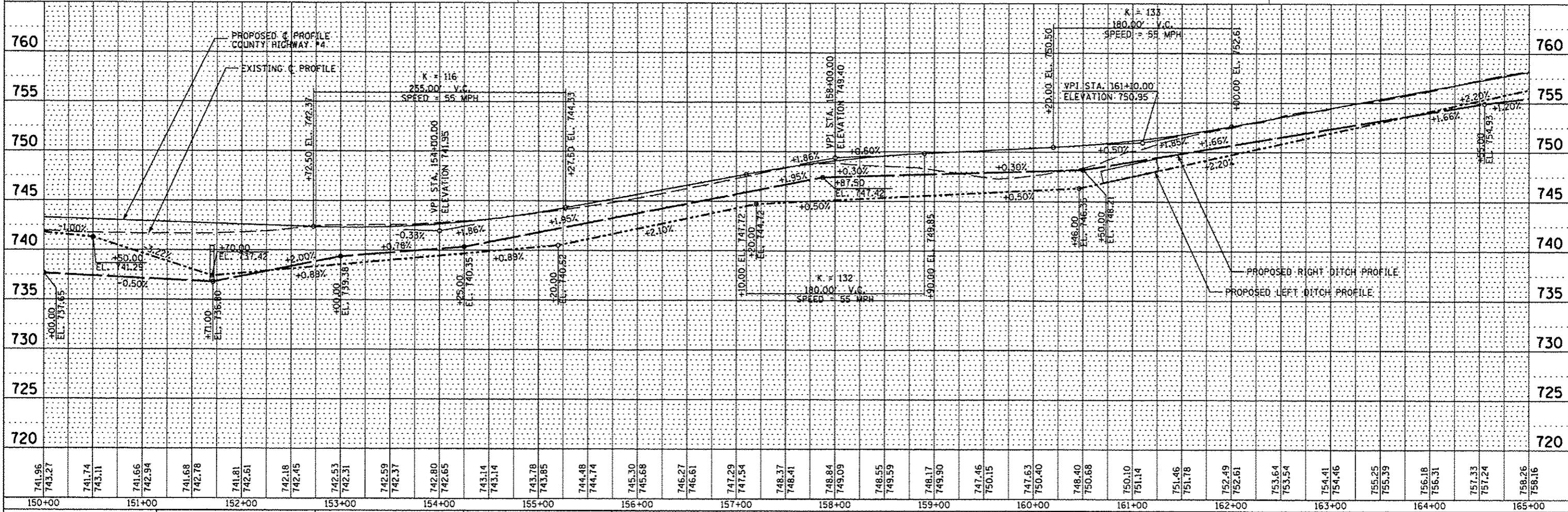
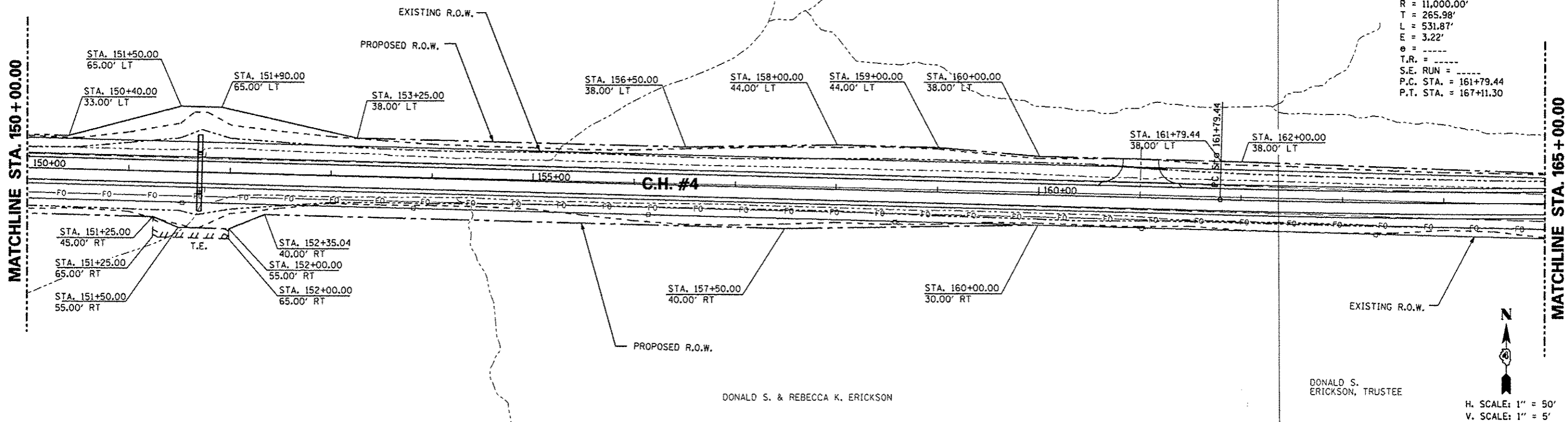
FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				COUNTY HIGHWAY #4 PROPOSED RIGHT OF WAY & EASEMENT SHEET				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#	#USER#	AMH	-	CONTRACT NO. 89614				STA. 135+00.00 TO STA. 150+00.00				393	12-00001-01-RS	KNOX	174	68
		AMH	-	SHEET NO. 68 OF 174 SHEETS				FED ROAD DIST NO. 4								
		JLH	-	DATE - MARCH 2013				ILLINOIS FED. AID PROJECT								
			-					RS-0393 (05)								

PLAN	DATE
BY	
REVISIONS	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

PROFILE	DATE
BY	
REVISIONS	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

BARBARA E. & ALFRED O. PAULUS

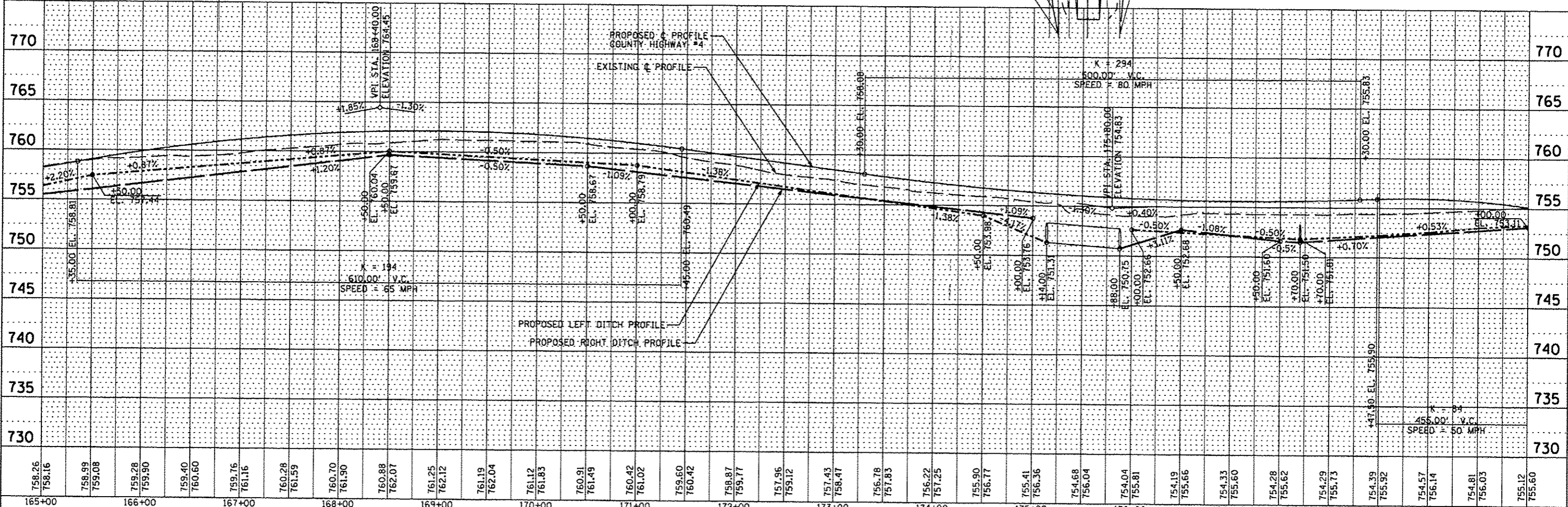
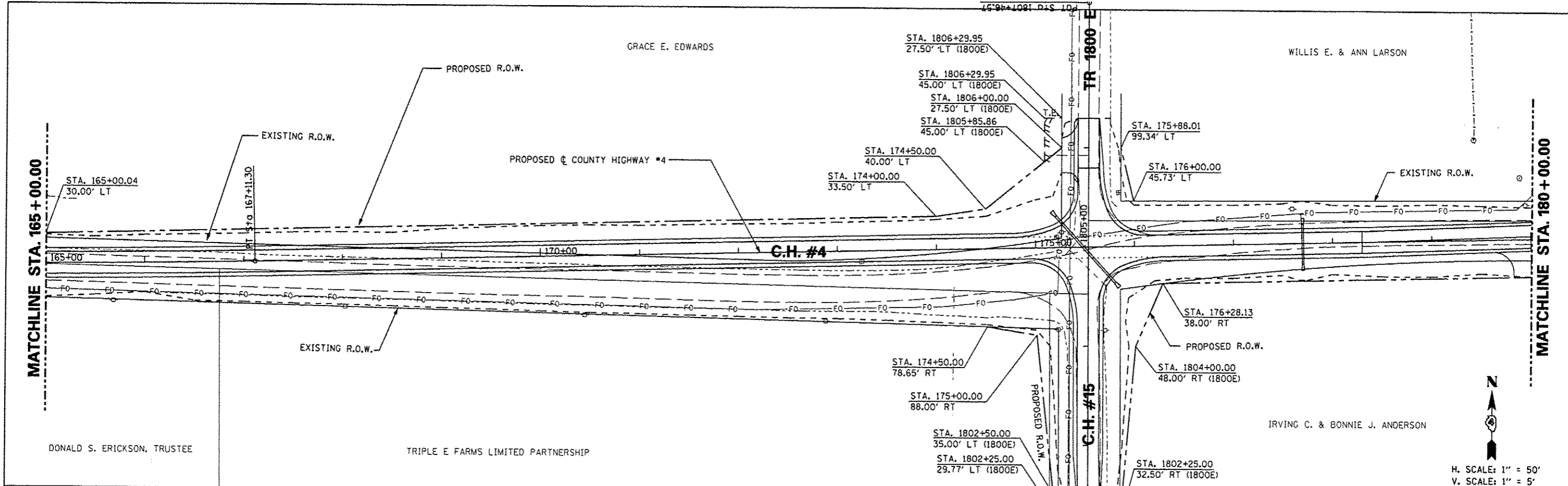
GRACE E. EDWARDS
 PROP. CURVE PRCH4-3
 PI STA. = 164+45.42
 $\Delta = 2^\circ 46' 13''$ (LT)
 $D = 0^\circ 31' 15''$
 $R = 11,000.00'$
 $T = 265.98'$
 $L = 531.87'$
 $E = 3.22'$
 $\theta = \dots$
 $T.R. = \dots$
 $S.E. RUN = \dots$
 $P.C. STA. = 161+79.44$
 $P.T. STA. = 167+11.30$



FILE NAME *	USER NAME * USER*	DESIGNED - AMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION COUNTY HIGHWAY #4 PROPOSED RIGHT OF WAY & EASEMENT SHEET SCALE: 1"=50' SHEET NO. 69 OF 174 SHEETS STA. 150+00.00 TO STA. 165+00.00	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL	PLOT SCALE * SCALE*	DRAWN - AMH	REVISED -		393	12-0001-01-RS	KNOX	174	69
	PLOT DATE * DATE*	CHECKED - JLH	REVISED -		COUNTY HIGHWAY #4		CONTRACT NO. 89614		
		DATE - MARCH 2013	REVISED -		FED ROAD DIST NO. 4		ILLINOIS FED. AID PROJECT RS-0393 (105)		

DATE	
BT	
PLAN	
NO. OF SHEETS	
NO. OF THIS SHEET	
NO. OF THIS SHEET	
NO. OF THIS SHEET	

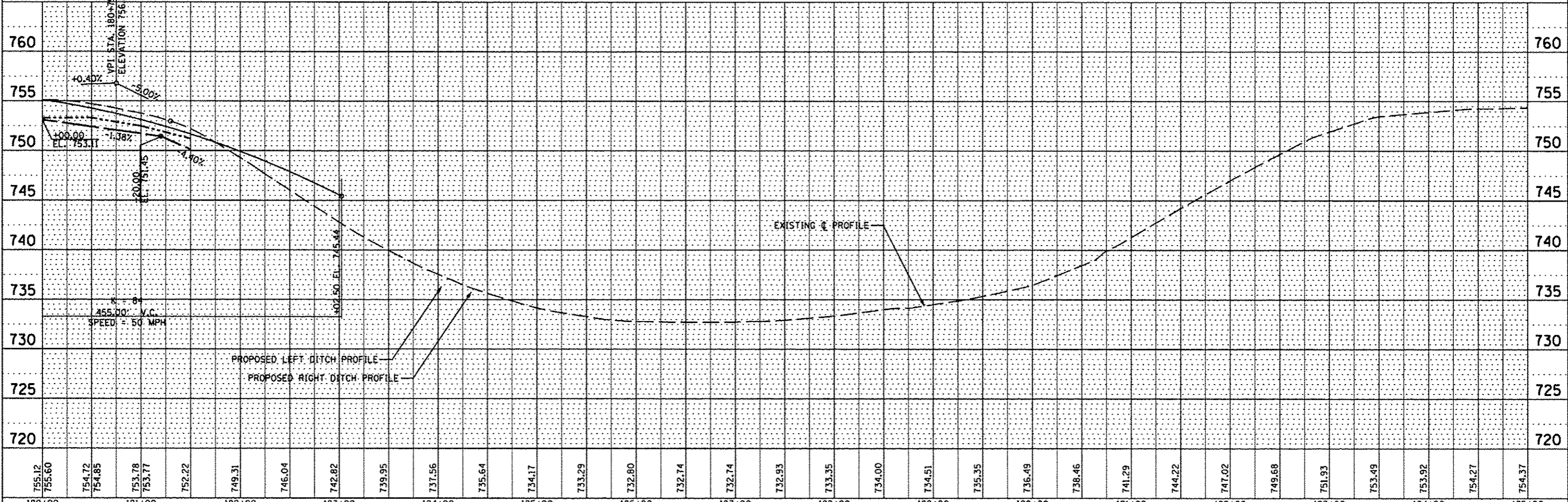
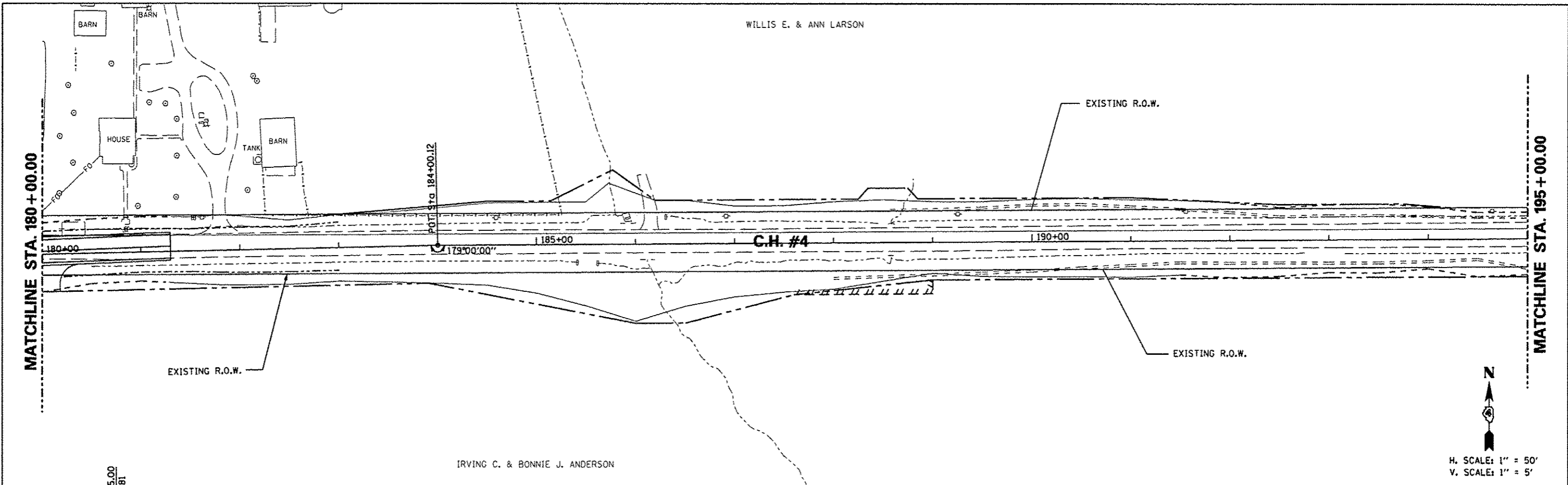
DATE	
BT	
PROFILE	
NO. OF SHEETS	
NO. OF THIS SHEET	
NO. OF THIS SHEET	
NO. OF THIS SHEET	



FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		COUNTY HIGHWAY #4 PROPOSED RIGHT OF WAY & EASEMENT SHEET		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILE#	*USER*	- AMH	-			SCALE: 1"=50'		393	12-00001-01-RS	KNOX	174	70
		DRAWN	REVISED			SHEET NO. 70 OF 174 SHEETS		COUNTY HIGHWAY #4		CONTRACT NO. 89614		
		CHECKED	REVISED			STA. 165+00.00 TO STA. 180+00.00		FED ROAD DIST NO. 4		ILLINOIS FED. AID PROJECT R5-0393 (05)		
		DATE	REVISED									
		MARCH 2013	-									

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF SHEETS	
	NO. OF PAGES	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF SHEETS	
	NO. OF PAGES	
	FILE NAME	

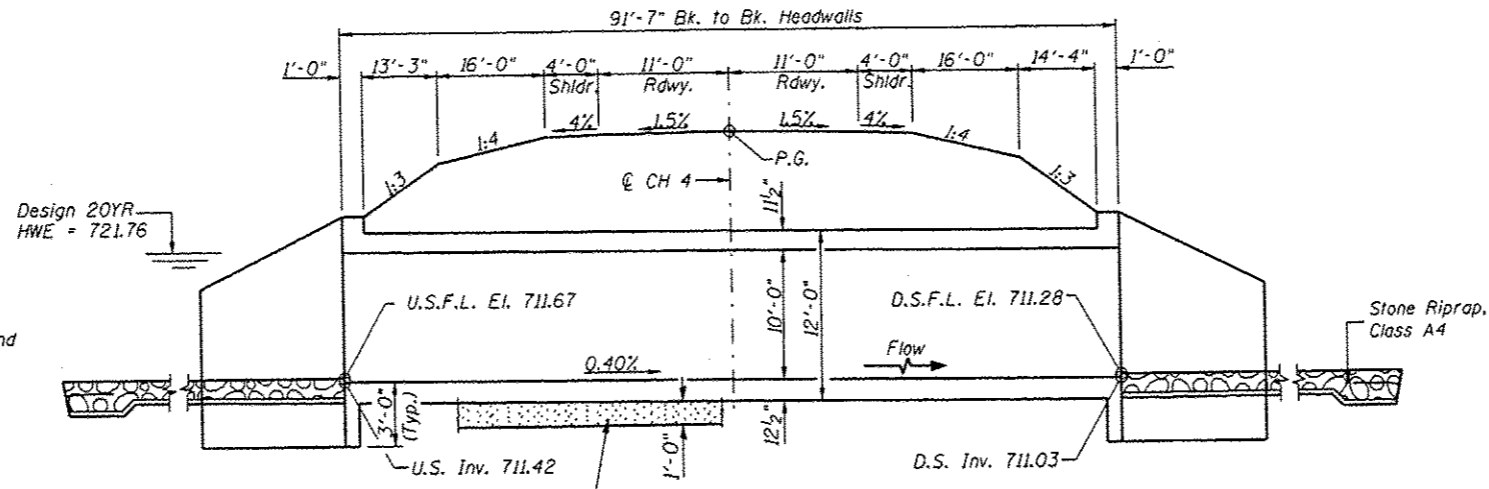


755.12	755.60	754.72	754.85	753.78	753.77	752.22	749.31	746.04	742.82	739.95	737.56	735.64	734.17	733.29	732.80	732.74	732.74	732.93	733.35	734.00	734.51	735.35	736.49	738.46	741.29	744.22	747.02	749.68	751.93	753.49	753.92	754.27	754.37			
180+00	181+00	182+00	183+00	184+00	185+00	186+00	187+00	188+00	189+00	190+00	191+00	192+00	193+00	194+00	195+00																					
FILE NAME		USER NAME		DESIGNED	AMH	REVISED		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION										COUNTY HIGHWAY #4 PROPOSED RIGHT OF WAY & EASEMENT SHEET				F.A.S. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.									
#FILE#		PLOT SCALE		DRAWN	AMH	REVISED																393	12-00001-01-RS	KNOX	174	71										
PLOT DATE		DATE		CHECKED	JLH	REVISED																COUNTY HIGHWAY #4		CONTRACT NO. 89614												
PLOT DATE		DATE		DATE	MARCH 2013	REVISED																SCALE: 1"=50'		SHEET NO. 71 OF 174 SHEETS		STA. 180+00.00 TO STA. 195+00.00		FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		RS-0393 (105)				

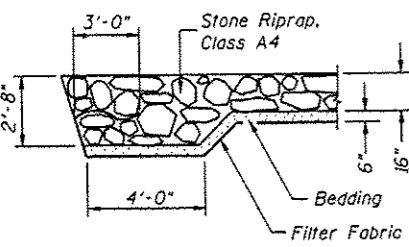
Existing Structure:
 Double 10'x8' reinforced concrete box culvert. The structure is approximately 43' in length, and is skewed ±20°. Str. No. 048-6051

Salvage: None
 Road to be closed to traffic during construction.

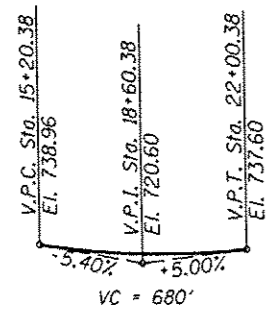
*Unsuitable Material Removal and Replacement with P.G.E. Limits are 2' outside the bottom slab and extends the length of the barrel.



GENERAL NOTES
 Reinforcement Bars shall conform to the requirements of ASTM A 706 Grade 60.
 For backfilling and embankment see Standard Specifications.
 All construction joints shall be bonded.
 Exposed concrete edges shall have a 3/4" chamfer unless otherwise noted.
 Precast culvert option will not be allowed.
 Layout of stone riprap/slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 A distance of half the length of the wingwall, but not less than 6 feet of the barrel shall be poured monolithically with the wingwall.
 Areas of excavation required for removal of the existing structure or construction of the new culvert shall be backfilled with Porous Granular Embankment up to the top of slab elevation. See Special Provisions for more detailed information.
 All excavation required for construction of the culvert as shown in these plans and in accordance with the Standard Specifications shall be included in the cost of Concrete Box Culverts.



SECTION A-A

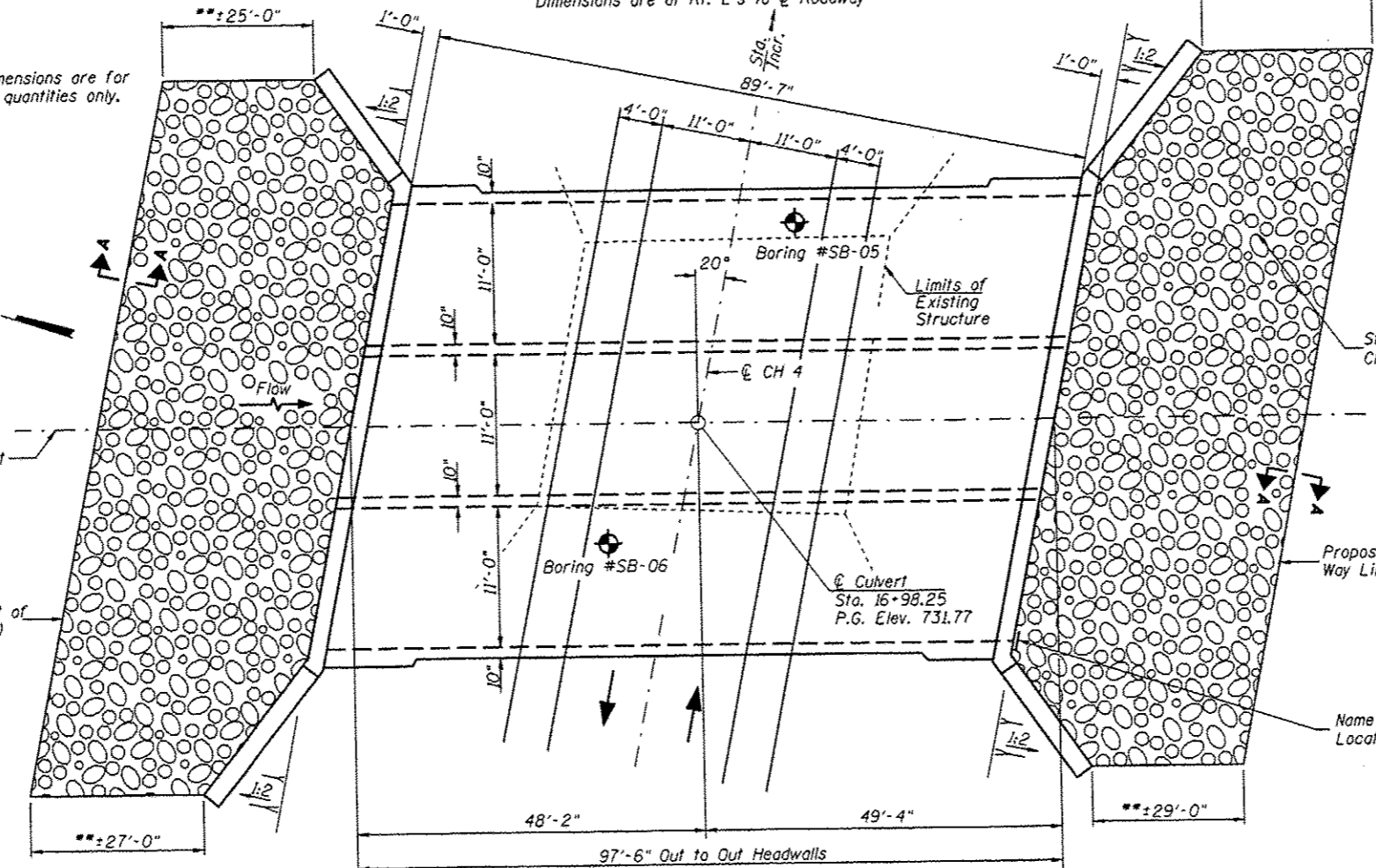


PROFILE GRADE

WALNUT CREEK TRIBUTARY
 BUILT 201 BY
 KNOX COUNTY
 SEC. 12-00001-01-RS
 C.H. 4 STATION 16+98.25
 F.A. PROJ. RS-0393(105)
 STR. NO. 048-5037 LOADING HL-93

NAME PLATE

Locate Name Plate at South Headwall
 S.W. Corner of Culvert (See Std. 515001)



PLAN

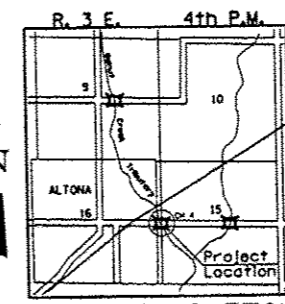
DESIGN SPECIFICATIONS
 2012 AASHTO LRFD Bridge Design Specifications

DESIGN STRESSES
FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

LOADING HL-93

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



LOCATION SKETCH

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Box Culverts	CU YD	429.4
Reinforcement Bars	POUND	76,330
① Removal of Existing Structures No. 1	EACH	1
Name Plates	EACH	1
Stone Riprap, Class A4	SQ YD	455
Filter Fabric	SQ YD	455
Removal & Disposal of Unsuitable Material	CU YD	145
① Porous Granular Embankment	CU YD	930

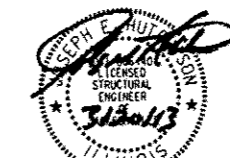
① See Special Provisions

DESIGN SCOUR TABLE

Location	Upstream	Downstream
Design Scour Elevation	711.42	711.03

I certify that to the best of my knowledge, information and belief, this culvert 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 AASHTO Standard Specification for Highway Bridges.

[Signature] 3/20/2013
 Illinois Structural No. 6440
 Expires 11/30/2014



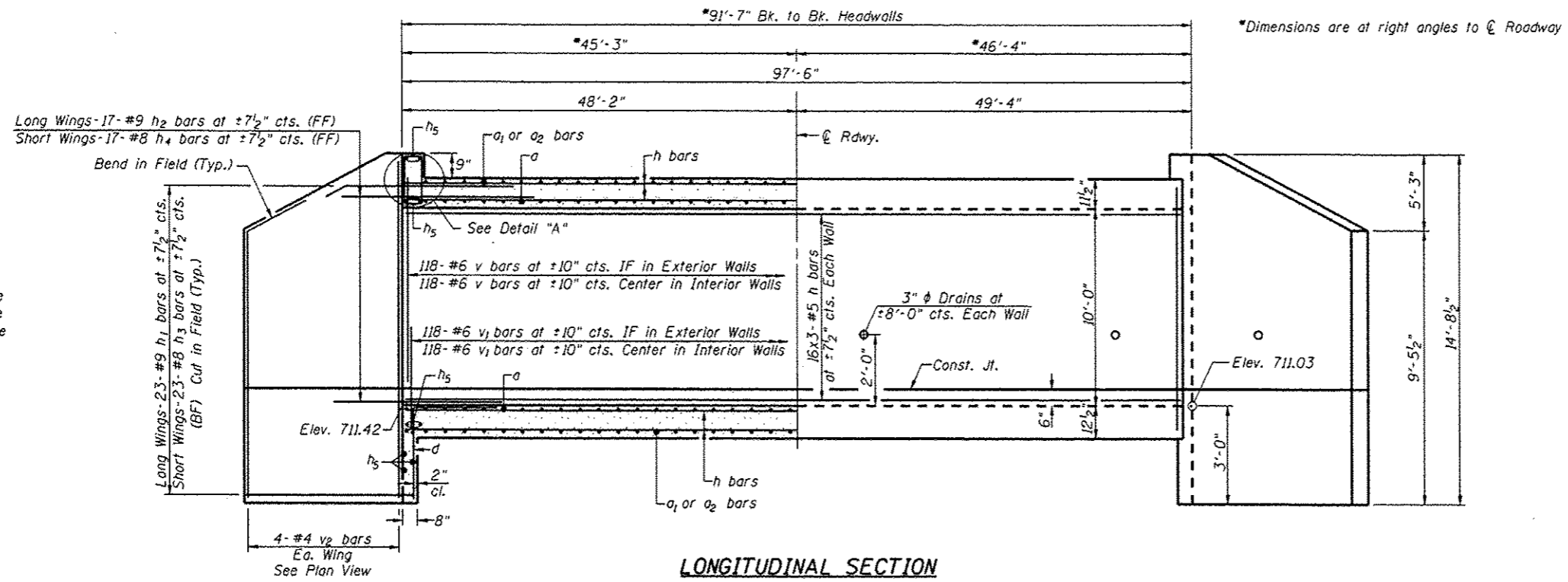
Lic Exp 11/30/2014

GENERAL PLAN & ELEVATION
 KNOX COUNTY
 SECTION 12-00001-01-RS
 C.H. 4 OVER WALNUT CREEK TRIBUTARY

DESIGNED	STM
CHECKED	CTM
DRAWN	STM
CHECKED	CTM

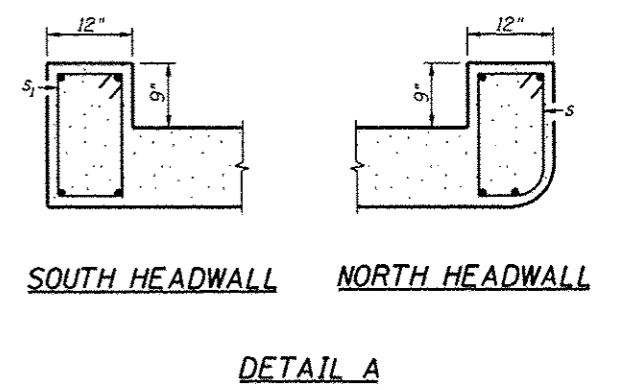
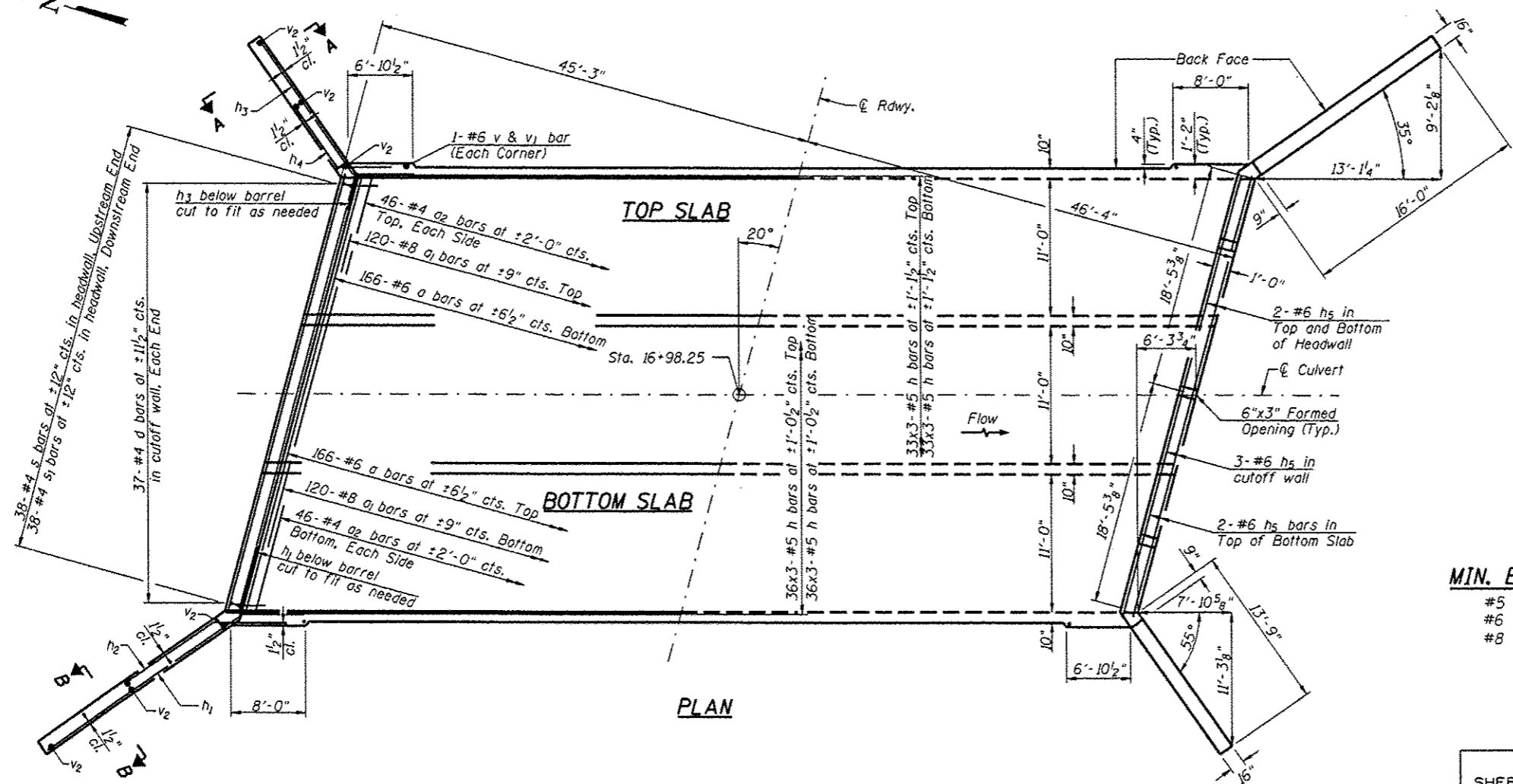
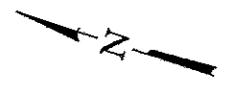
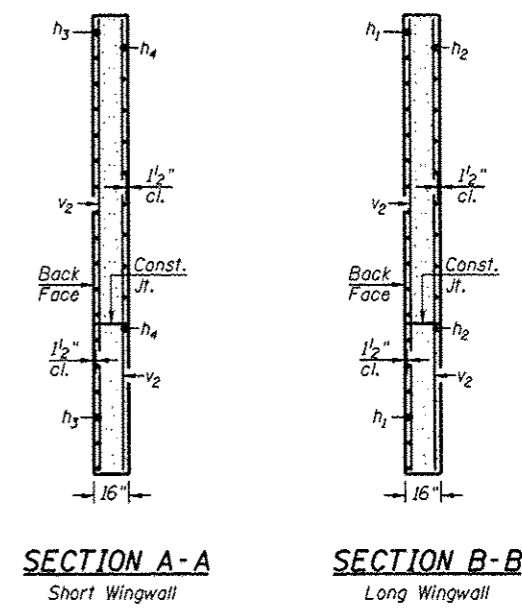
Drainage Area = 6.40 Sq. Mi.		Low Grade Elev. = 729.43 @ Sta. 18+73.46							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	20	1,634	160	330	721.76	2.06	0.16	723.82	721.92
Base	100	2,400	160	330	722.79	3.17	0.75	725.96	723.54

SHEET NO. 1	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4 SHEETS	CH 4	12-00001-01-RS	KNOX	174	72
S.N. 048-5037			CONTRACT NO. 89614		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT RS-0393(105)		



Notes:
 IF = Inner Face
 BF = Back Face
 FF = Front Face

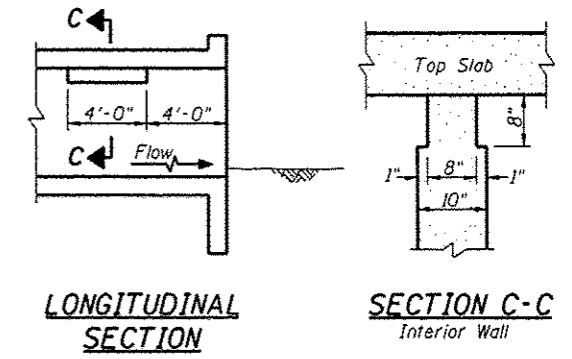
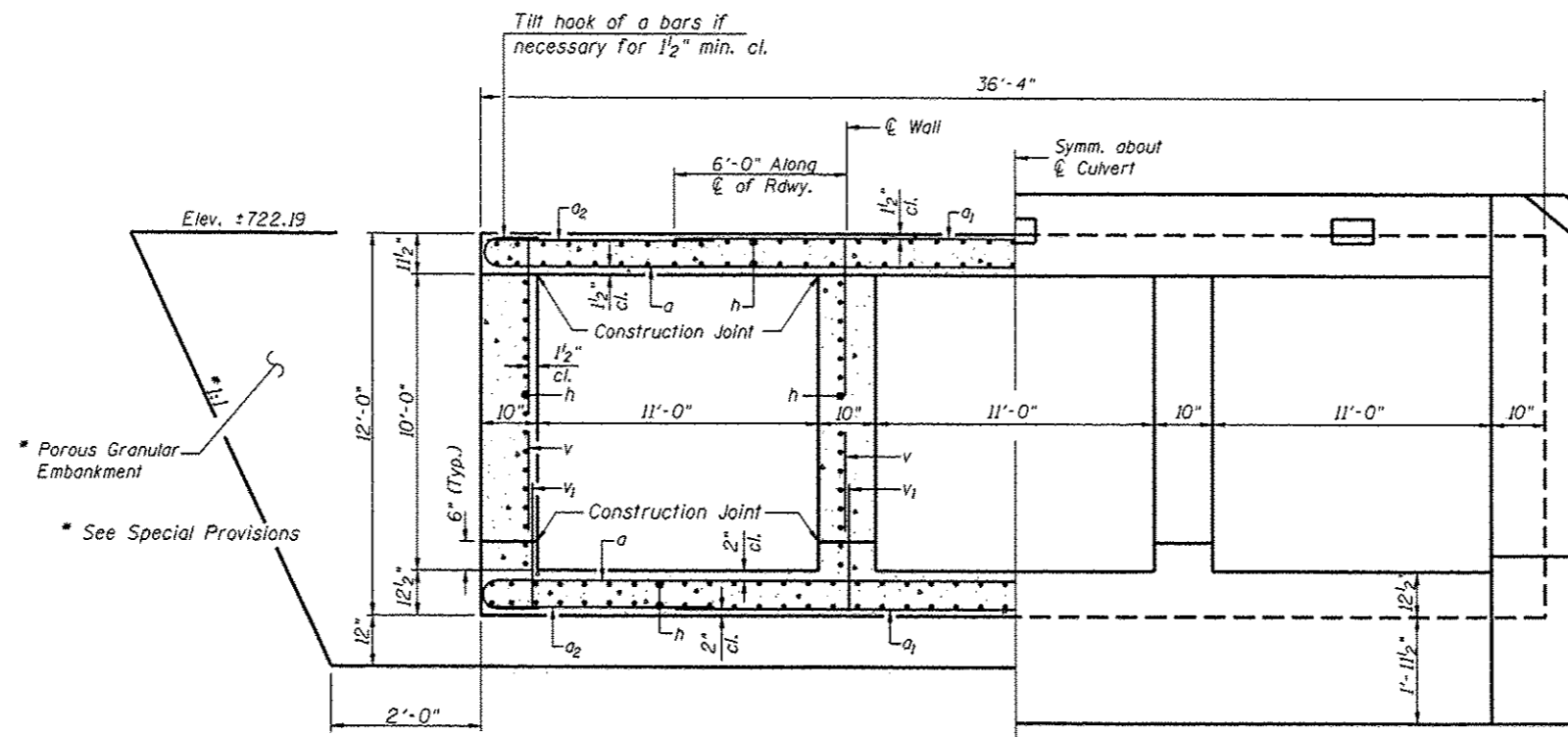
Bars indicated thus 16x3-#5 etc. indicates 16 lines of bars with 3 lengths per line.



MIN. BAR LAP
 #5 = 1'-8"
 #6 = 2'-0"
 #8 = 3'-8"

CULVERT DETAILS
 KNOX COUNTY
 SECTION 12-00001-01-RS
 C.H. 4 OVER WALNUT CREEK TRIBUTARY

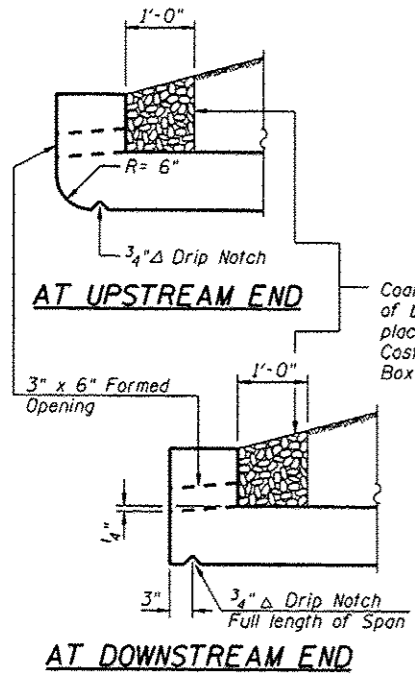
SHEET NO. 2	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4 SHEETS	CH 4	12-00001-01-RS	KNOX	174	73
S.N. 048-5037			CONTRACT NO. 89614		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT RS-0393(105)		



LONGITUDINAL SECTION
SECTION C-C
 Interior Wall

Note: Notch by rough-finished board attached to and removed with formwork, each interior wall. (Do not chamfer)

PHOEBE NESTING SITE DETAIL
 (Downstream End Only - Cost included with Concrete Box Culverts)



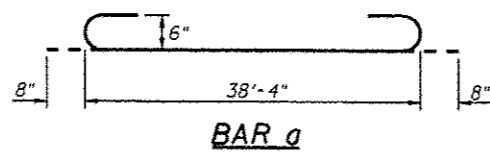
AT UPSTREAM END
 Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cast included with Concrete Box Culverts.

AT DOWNSTREAM END

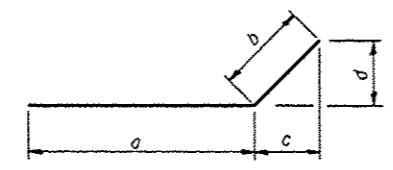
DRAIN DETAIL

HALF SECTION THRU BARREL
 Showing Reinforcement

HALF END ELEVATION
 Showing Dimensions

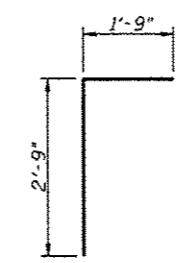


BAR a

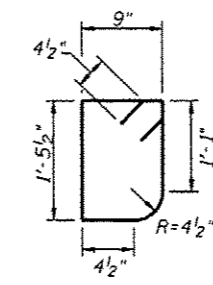


Bar	a	b	c	d
h ₁	16'-0"	3'-0"	2'-5 1/2"	1'-8 1/2"
h ₂	5'-0"	3'-0"	2'-5 1/2"	1'-8 1/2"
h ₃	13'-9"	3'-0"	1'-8 1/2"	2'-5 1/2"
h ₄	5'-0"	3'-0"	1'-8 1/2"	2'-5 1/2"

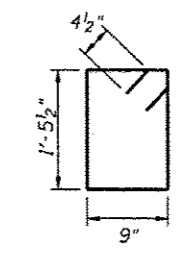
BARS h₁, h₂, h₃, & h₄



BAR d



BAR s



BAR s₁

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a	332	#6	39'-8"	U	
a ₁	240	#8	24'-7"	—	
a ₂	184	#4	11'-9"	—	
d	74	#4	4'-6"	—	
h	606	#5	33'-6"	—	
h ₁	46	#9	19'-0"	—	
h ₂	34	#9	8'-0"	—	
h ₃	46	#8	16'-9"	—	
h ₄	34	#8	8'-0"	—	
h ₅	18	#6	38'-4"	—	
s	38	#4	5'-0"	□	
s ₁	38	#4	5'-2"	□	
v	476	#6	10'-2"	—	
v ₁	476	#6	3'-7"	—	
v ₂	16	#4	14'-5"	—	
Concrete Box Culverts				CU YD	429.4
Reinforcement Bars				POUND	76,330

CULVERT DETAILS
KNOX COUNTY
SECTION 12-00001-01-RS
C.H. 4 OVER WALNUT CREEK TRIBUTARY

SHEET NO.	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	CH 4	12-00001-01-RS	KNOX	174	74
4 SHEETS			S.N. 048-5037	CONTRACT NO. 89614	
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT RS-0393(105)		



SOIL BORING LOG

ROUTE FAS 393 DESCRIPTION Knox County Highway 4 Improvement LOGGED BY T. Fehl
SECTION 09-00001-00-RS LOCATION SEC. TWP. RNG.
COUNTY Knox DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

Table with columns for SOIL DESCRIPTION, DEPTH (ft), BLOW COUNT (B), UNIFIED SOIL CLASSIFICATION (U), MOISTURE CONTENT (M), and PENETROMETER VALUE (P). Includes soil layers like OIL And CHIPS, Silty Dark Brown SILTY CLAY LOAM, and Very Stiff, Dark Gray CLAY SHALE.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T205)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE FAS 393 DESCRIPTION Knox County Highway 4 Improvement LOGGED BY T. Fehl
SECTION 09-00001-00-RS LOCATION SEC. TWP. RNG.
COUNTY Knox DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

Table with columns for SOIL DESCRIPTION, DEPTH (ft), BLOW COUNT (B), UNIFIED SOIL CLASSIFICATION (U), MOISTURE CONTENT (M), and PENETROMETER VALUE (P). Includes soil layers like OIL And CHIPS, Brown, Fine-Grained GRAVEL And Medium- To Coarse-Grained SAND, and Very Stiff, Dark Gray CLAY SHALE.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T205)

BBS, form 137 (Rev. 8-99)

SOIL BORING LOGS

KNOX COUNTY

SECTION 12-00001-01-RS

C.H. 4 OVER WALNUT CREEK TRIBUTARY

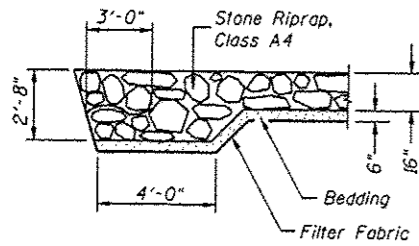
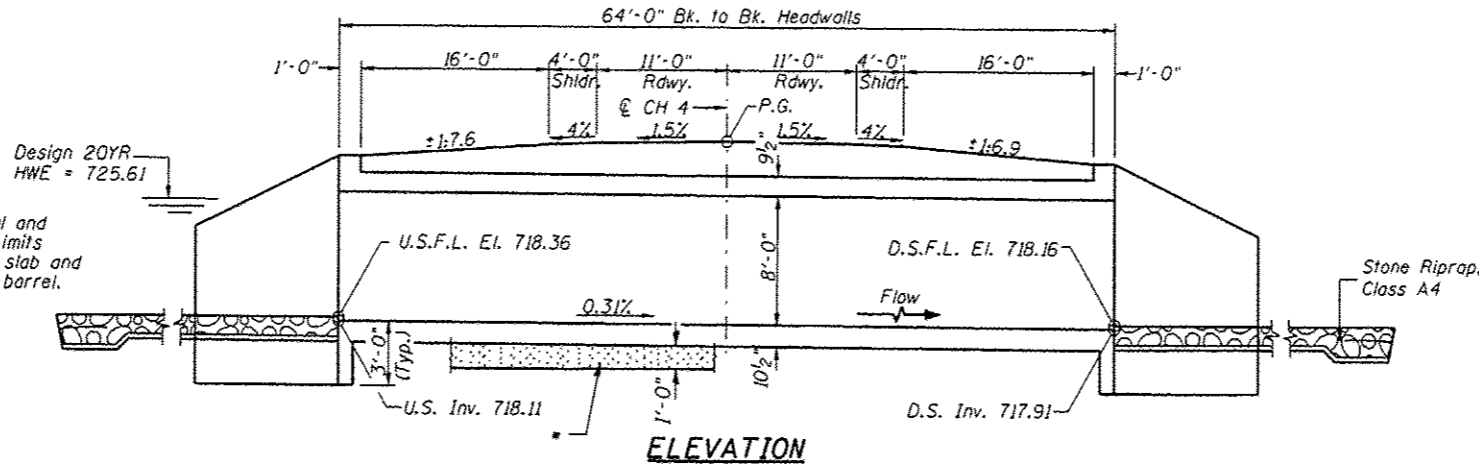
Summary table with columns: SHEET NO. 4, ROUTE NO. CH 4, SECTION 12-00001-01-RS, COUNTY KNOX, TOTAL SHEETS 174, SHEET NO. 75, S.N. 048-5037, CONTRACT NO. 39614, FED. ROAD DIST. NO. 7 ILLINOIS, FED. AID PROJECT RS-0393(105)

Existing Structure:
Single 12'x9' reinforced concrete box culvert. The structure is approximately 31' in length, and is not skewed.
Str. No. N/A

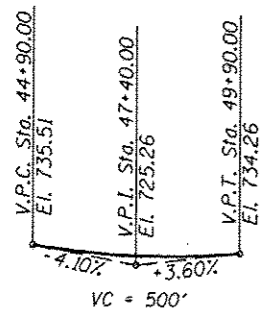
Salvage: None
Road to be closed to traffic during construction.

Unsuitable Material Removal and Replacement with P.G.E. Limits are 2' outside the bottom slab and extends the length of the barrel.

GENERAL NOTES
Reinforcement Bars shall conform to the requirements of ASTM A 706 Grade 60.
For backfilling and embankment see Standard Specifications.
All construction joints shall be bonded.
Exposed concrete edges shall have a 3/4" chamfer unless otherwise noted.
Precast culvert option will not be allowed.
Layout of stone riprap/slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
A distance of half the length of the wingwall, but not less than 6 feet of the barrel shall be poured monolithically with the wingwall.
Areas of excavation required for removal of the existing structure or construction of the new culvert shall be backfilled with Porous Granular Embankment up to the top of slab elevation. See Special Provisions for more detailed information.
All excavation required for construction of the culvert as shown in these plans and in accordance with the Standard Specifications shall be included in the cost of Concrete Box Culverts.

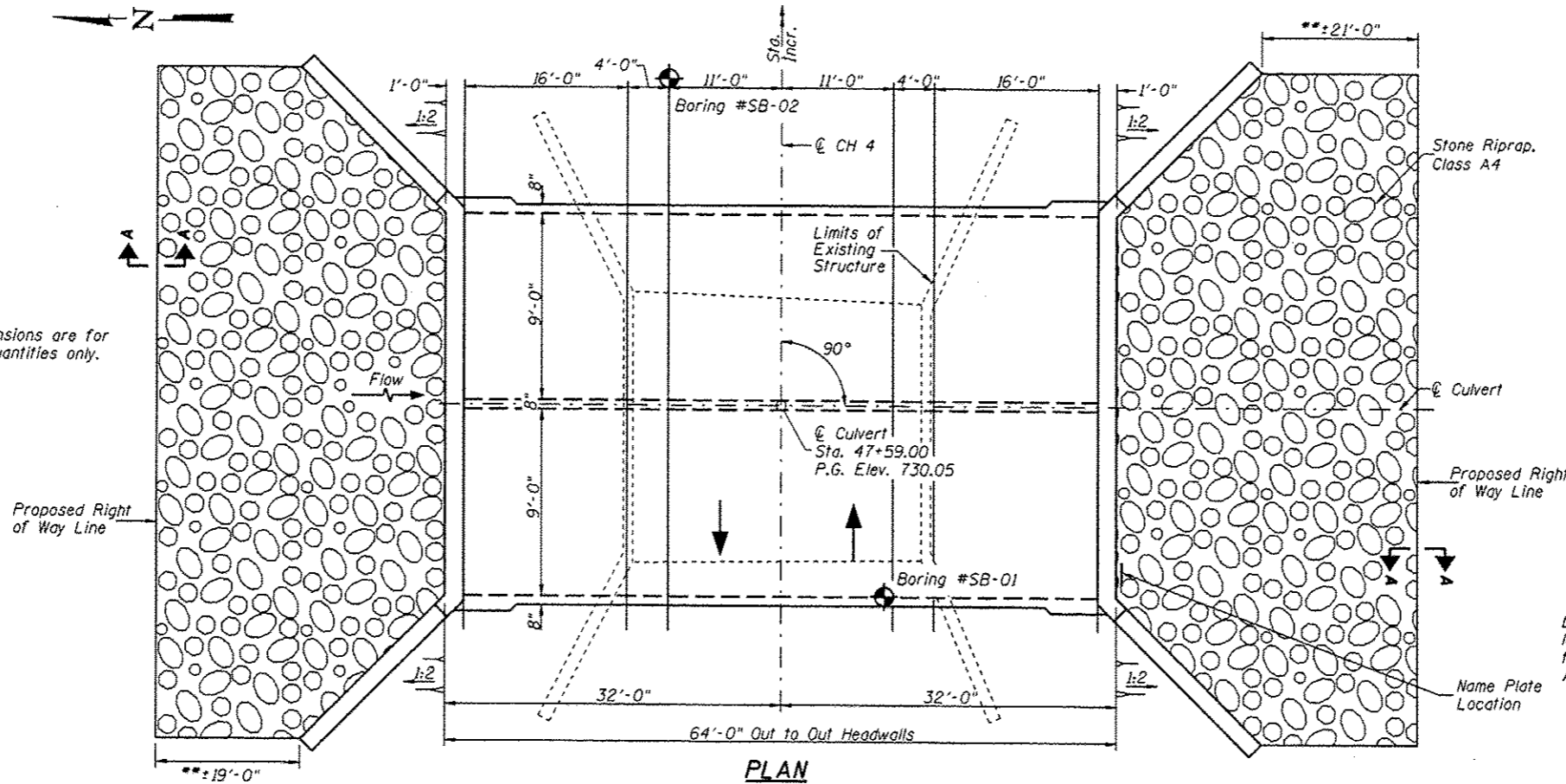


SECTION A-A



PROFILE GRADE

Riprap dimensions are for estimating quantities only.



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Box Culverts	CU YD	151.3
Reinforcement Bars	POUND	21,580
Removal of Existing Structures No. 2	EACH	1
Name Plates	EACH	1
Stone Riprap, Class A4	SO YD	220
Filter Fabric	SO YD	220
Removal & Disposal of Unsuitable Material	CU YD	57
Porous Granular Embankment	CU YD	420

See Special Provisions

DESIGN SCOUR TABLE

Location	Upstream	Downstream
Design Scour Elevation	718.11	717.91

I certify that to the best of my knowledge, information and belief, this culvert 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 AASHTO Standard Specification for Highway Bridges.

[Signature]
Illinois Structural No. 6440
Expires 11/30/2014



**WALNUT CREEK TRIBUTARY
BUILT BY
KNOX COUNTY
SEC. 12-00001-01-RS
C.H. 4 STATION 47+59.00
F.A. PROJ. RS-0393(105)
STR. NO. 048-5038 LOADING HL-93**

NAME PLATE

Locate Name Plate at South Headwall
S.W. Corner of Culvert (See Std. 515001)

WATERWAY INFORMATION

Drainage Area = 1.72 Sq. Mi. Low Grade Elev. = 730.05 @ Sta. 47+56.23

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	20	813	86	137	725.61	1.80	0.25	727.41	725.86
Base	100	1,210	95	144	726.43	3.30	0.89	729.73	727.32

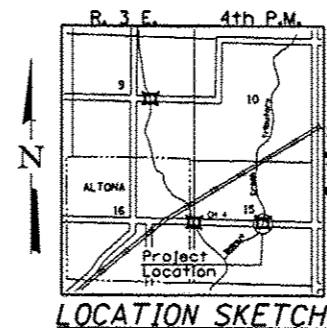
DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge Design Specifications

DESIGN STRESSES
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LOADING HL-93

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



LOCATION SKETCH

GENERAL PLAN & ELEVATION

KNOX COUNTY

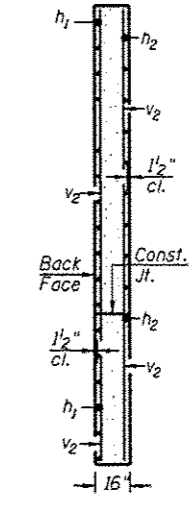
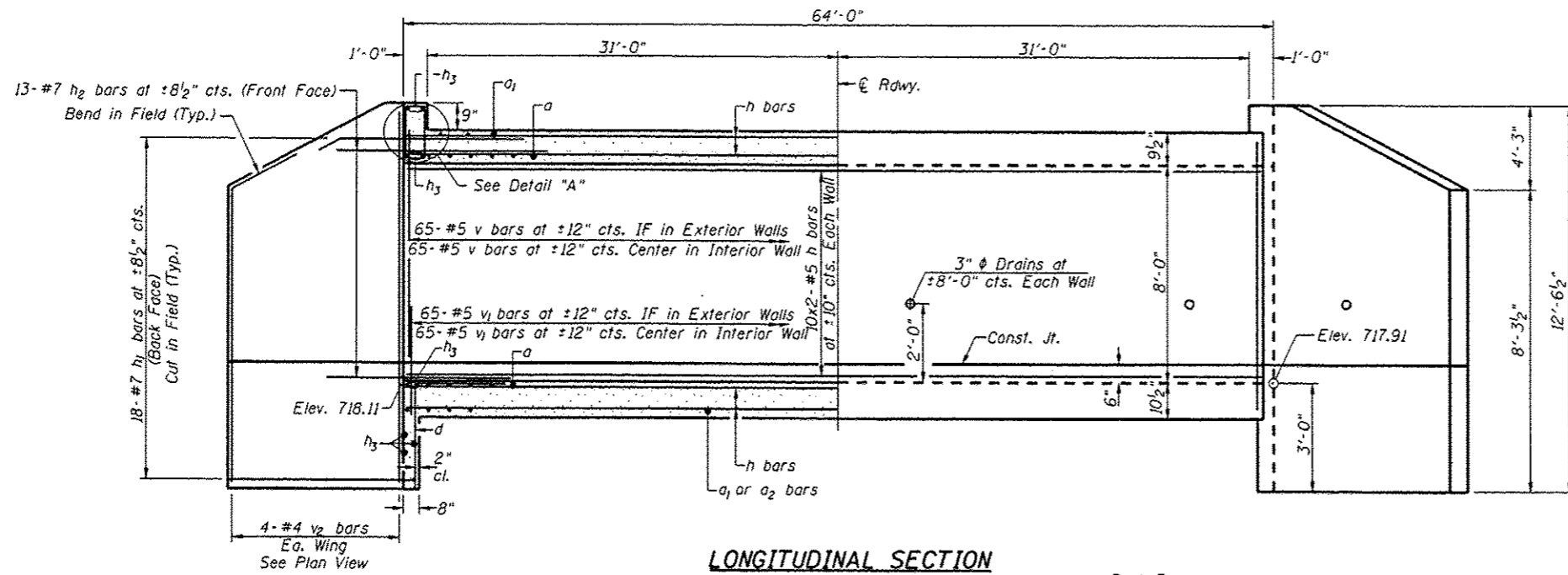
SECTION 12-00001-01-RS

C.H. 4 OVER WALNUT CREEK TRIBUTARY

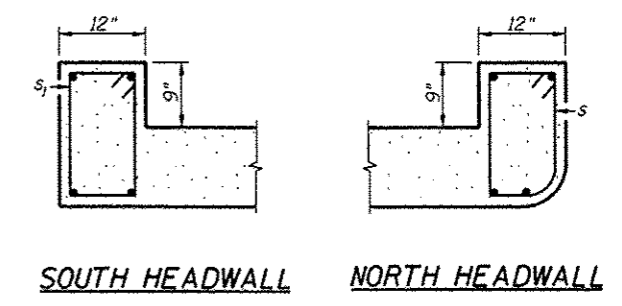
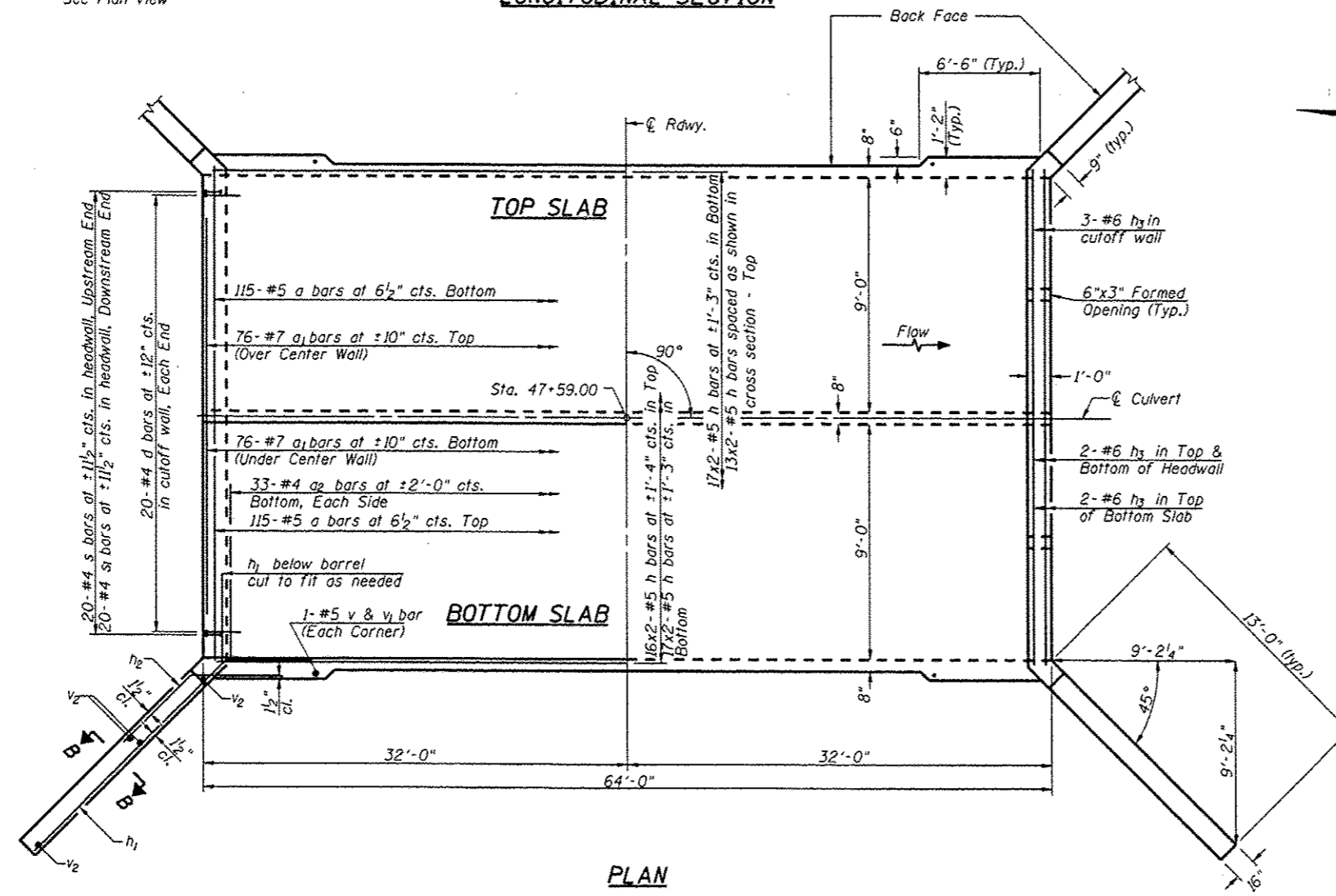
DESIGNED	CTM
CHECKED	STM
DRAWN	CTM
CHECKED	STM

SHEET NO. 1	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5 SHEETS	CH 4	12-00001-01-RS	KNOX	174	76
S.N. 048-5038			CONTRACT NO. 89614		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT RS-0393(105)		

Bars indicated thus 16x2-#5 etc. indicates 16 lines of bars with 2 lengths per line.



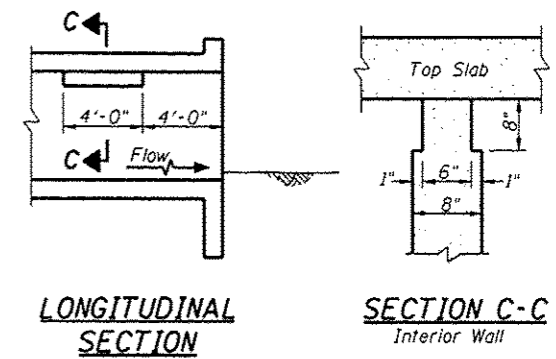
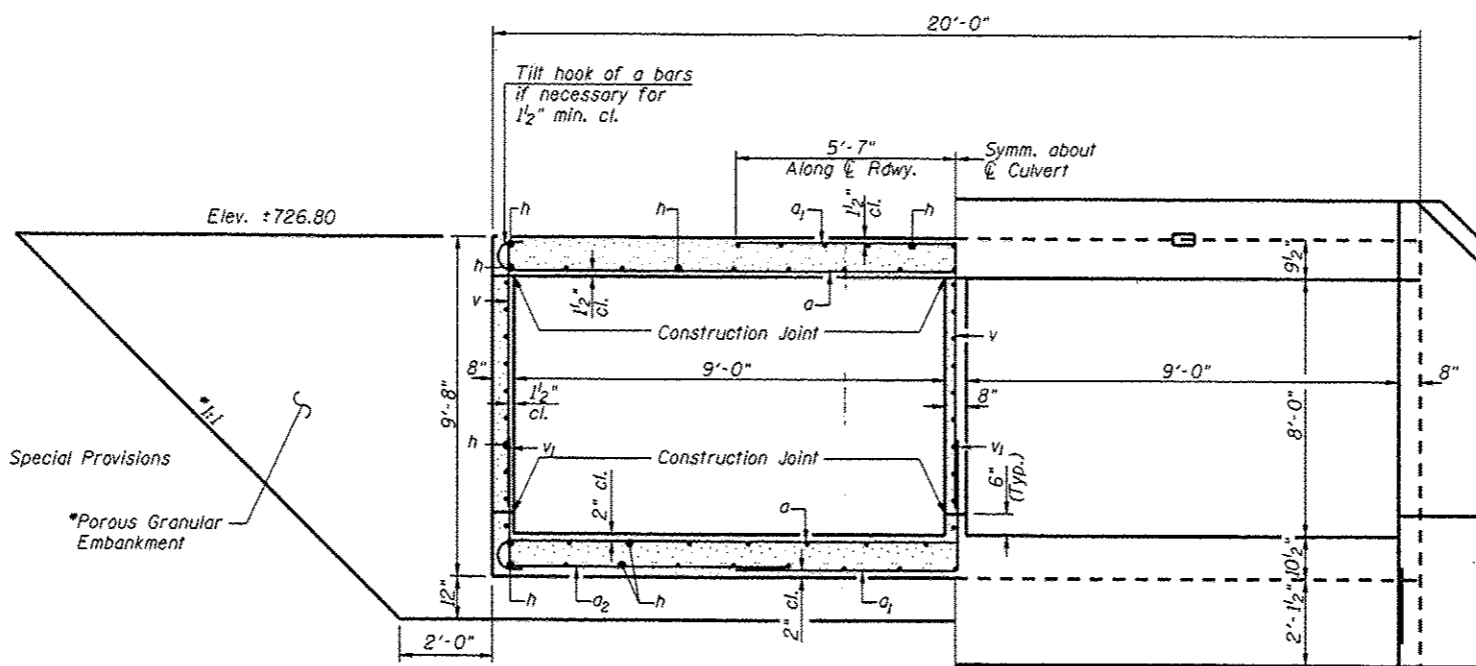
Notes:
IF = Inner Face



MIN. BAR LAP
 #5 = 1'-8"
 #6 = 2'-0"
 #7 = 2'-9"

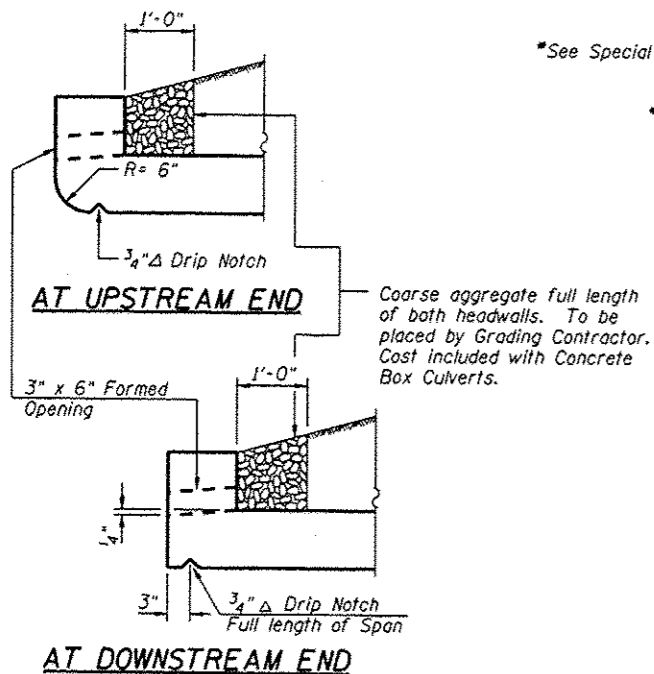
CULVERT DETAILS
 KNOX COUNTY
 SECTION 12-00001-01-RS
 C.H. 4 OVER WALNUT CREEK TRIBUTARY

SHEET NO. 2	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 4	12-00001-01-RS	KNOX	174	77
5 SHEETS	S.N. 048-5038		CONTRACT NO. 89614		
	FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT RS-0393(105)		



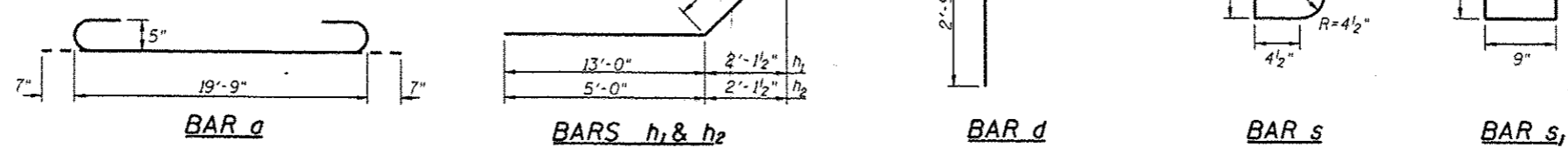
Note: Notch by rough-finished board attached to and removed with formwork, each interior wall. (Do not chamfer)

PHOEBE NESTING SITE DETAIL
(Downstream End Only - Cost included with Concrete Box Culverts)



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	230	#5	20'-11"	⌒
a ₁	152	#7	11'-2"	—
a ₂	66	#4	7'-1"	—
d	40	#4	4'-6"	⌒
h	186	#5	32'-9"	—
h ₁	72	#7	16'-0"	—
h ₂	52	#7	8'-0"	—
h ₃	18	#6	20'-4"	—
s	20	#4	4'-7"	□
s ₁	20	#4	4'-9"	□
v	199	#5	8'-0"	—
v ₁	199	#5	3'-1"	—
v ₂	16	#4	12'-3"	—
Concrete Box Culverts			CU YD	151.3
Reinforcement Bars			POUND	21,580



CULVERT DETAILS
KNOX COUNTY
SECTION 12-00001-01-RS
C.H. 4 OVER WALNUT CREEK TRIBUTARY

SHEET NO. 3 5 SHEETS	ROUTE NO. CH 4	SECTION 12-00001-01-RS	COUNTY KNOX	TOTAL SHEETS 174	SHEET NO. 78
	S.N. 048-5038		CONTRACT NO. 89614		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT RS-0393(105)		



Illinois Department
of Transportation
Division of Highways
WHITNEY & ASSOCIATES

SOIL BORING LOG

Page 1 of 2

Date 10/31/11

ROUTE FAS 393 DESCRIPTION Knox County Highway 4 Improvements LOGGED BY T. Fehl

SECTION 09-00001-00-RS LOCATION Walnut Township, SEC. 15, TWP. T13N, RNG. R3E,

COUNTY Knox DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	D E L T H				Surface Water Elev.	Stream Bed Elev.	D E L T H					
				(ft)	(/ft)	(tsf)	(%)			(ft)	(/ft)	(tsf)	(%)		
	<u>SB-01</u>	<u>47+50</u>	<u>729.60</u>												
			<u>729.39</u>												
			<u>728.77</u>												
			<u>725.60</u>												
			<u>723.10</u>												
			<u>720.60</u>												
			<u>718.60</u>												
			<u>715.60</u>												
			<u>713.10</u>												

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



Illinois Department
of Transportation
Division of Highways
WHITNEY & ASSOCIATES

SOIL BORING LOG

Page 2 of 2

Date 10/31/11

ROUTE FAS 393 DESCRIPTION Knox County Highway 4 Improvements LOGGED BY T. Fehl

SECTION 09-00001-00-RS LOCATION Walnut Township, SEC. 15, TWP. T13N, RNG. R3E,

COUNTY Knox DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	D E L T H				Surface Water Elev.	Stream Bed Elev.	D E L T H					
				(ft)	(/ft)	(tsf)	(%)			(ft)	(/ft)	(tsf)	(%)		
	<u>SB-01</u>	<u>47+50</u>	<u>729.60</u>												
			<u>729.39</u>												
			<u>728.77</u>												
			<u>725.60</u>												
			<u>723.10</u>												
			<u>720.60</u>												
			<u>718.60</u>												
			<u>715.60</u>												
			<u>713.10</u>												

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)

SOIL BORING LOGS
KNOX COUNTY
SECTION 12-00001-01-RS
C.H. 4 OVER WALNUT CREEK TRIBUTARY

SHEET NO. 4	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 4	12-00001-01-RS	KNOX	174	79
5 SHEETS	S.N. 048-5038			CONTRACT NO. <u>89614</u>	
	FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT RS-0393(105)	



ROUTE FAS 393 DESCRIPTION Knox County Highway 4 Improvements LOGGED BY T. Fehl

SECTION 09-00001-00-RS LOCATION Walnut Township, SEC. 15, TWP. T13N, RNG. R3E,
Latitude, Longitude

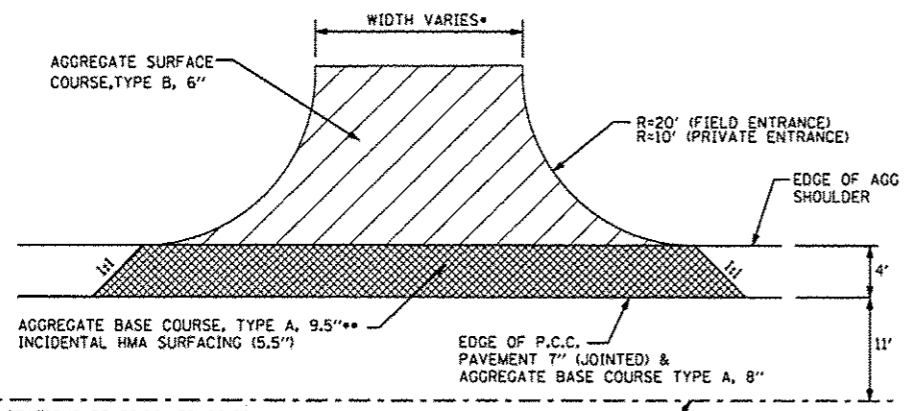
COUNTY Knox DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station	D E P T H S	B L O S S	U C S Qu	M O I S T	Surface Water Elev. <u> </u> ft	D E P T H S	B L O S S	U C S Qu	M O I S T	Groundwater Elev.:	
										First Encounter <u>712.0</u> ft	Upon Completion <u>717.5</u> ft
BORING NO. <u>SB-02</u> Station <u>47+75</u> Offset <u>11.0 ft Left</u> Ground Surface Elev. <u>729.50</u> ft	(ft)	(/6")	(tsf)	(%)	After - Hrs. <u> </u> ft	(ft)	(/6")	(tsf)	(%)		
OIL And CHIPS (4.0")	729.17				Hard, Gray-Brown CLAY LOAM A-6 (Glacial Till) (continued)	10					
CRUSHED LIMESTONE (10.0")	728.67					12	7.1	10			
Medium, Black ORGANIC SILTY CLAY LOAM A-6						16	B			708.00	
		1			Hard, Gray LOAM A-4 (Glacial Till)	18					
		2	0.6	32		18	6.3	9			
		2	B			17	B				
		1									
		2	0.7	30		-25	21				
		2	B			18	7.9	9			
		2	B			16	B				
Soft, Gray-Brown And Light Brown CLAY LOAM A-6	723.00										
		1									
		2	0.4	24							
		2	B								
					Hard, Dark Gray SHALE	701.00	7 1/6"	4.5	12		
		1			Very Dense, Black COAL	700.00					
		2	0.3	25		-30	7 3/8"	-	16		
		2	B								
Soft, Dark Gray SILTY CLAY A-7-6	718.00										
		1	0.3	32	Hard, Gray SHALE	697.50					
		1	B								
Soft, Gray SILTY CLAY LOAM A-6	715.50										
		0									
		1	0.3	28		-35	8 7/8"	4.5	10		
		1	B			693.50	P				
Hard, Gray-Brown CLAY LOAM A-6 (Glacial Till)	713.00				End of Boring						
		8									
		10	5.3	11							
		12	B								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)

SOIL BORING LOGS
KNOX COUNTY
SECTION 12-00001-01-RS
C.H. 4 OVER WALNUT CREEK TRIBUTARY

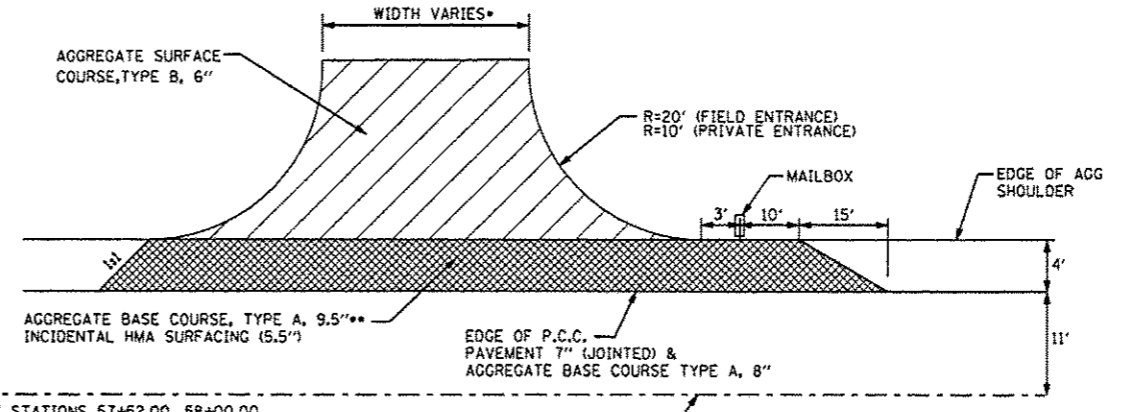
SHEET NO. 5 5 SHEETS	ROUTE NO. CH 4	SECTION 12-00001-01-RS	COUNTY KNOX	TOTAL SHEETS 174	SHEET NO. 80
	S.N. 048-5038		CONTRACT NO. 89614		
	FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT RS-0393(105)



** ENTRANCES AT STATIONS 57+52.00, 58+00.00, 62+94.00, AND 146+00.00 SHALL HAVE AGGREGATE BASE COURSE, TYPE A, 13.5"

• PRIVATE ENTRANCE WIDTHS VARY BETWEEN 12' AND 24'
 COMMERCIAL/AGRICULTURAL ENTRANCE WIDTHS 35'
 48' WIDTH ALLOWED FOR SHARED ACCESS TO ADJACENT PROPERTIES.

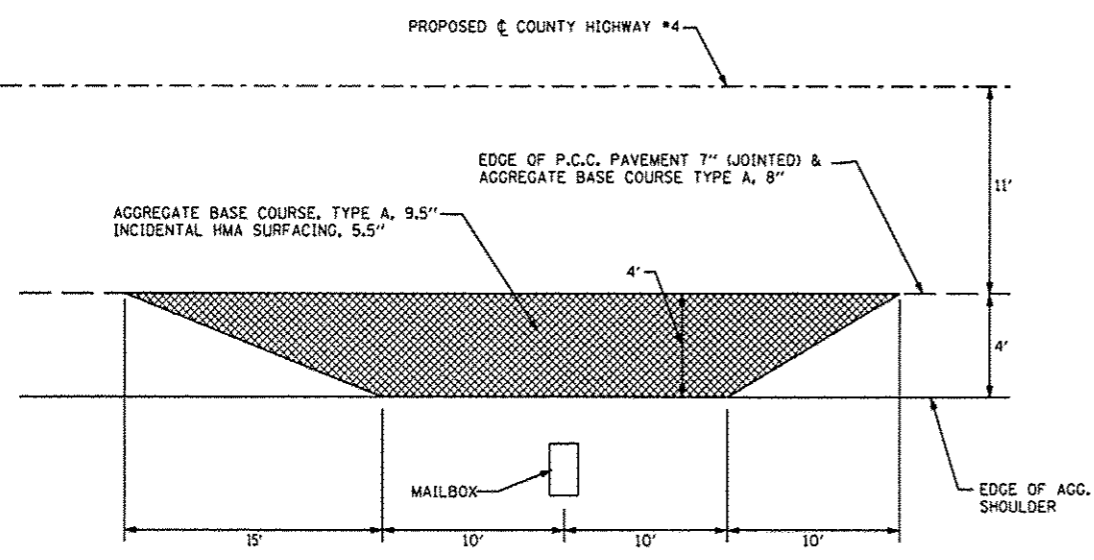
ENTRANCE & ENTRANCE APRON DETAIL



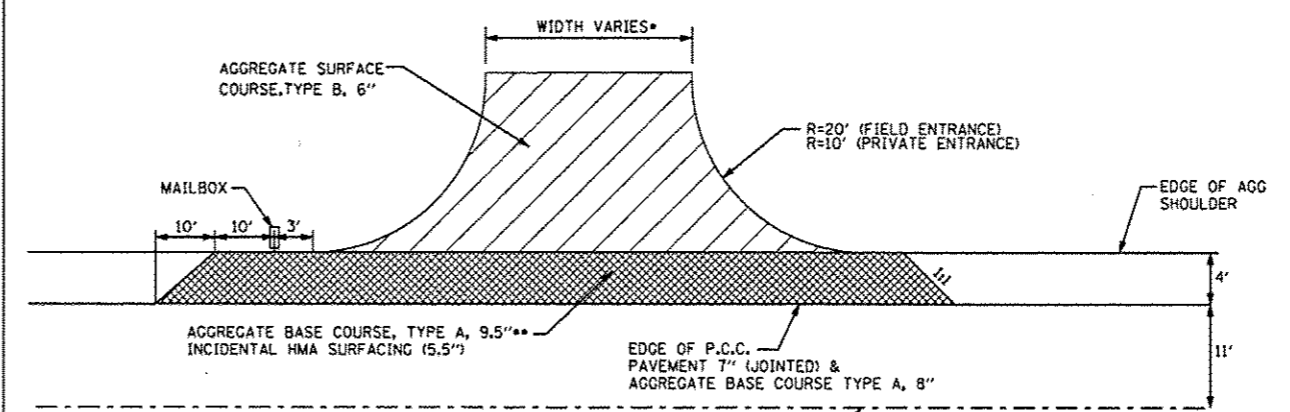
** ENTRANCES AT STATIONS 57+52.00, 58+00.00, 62+94.00, AND 146+00.00 SHALL HAVE AGGREGATE BASE COURSE, TYPE A, 13.5"

• PRIVATE ENTRANCE WIDTHS VARY BETWEEN 12' AND 24'
 COMMERCIAL/AGRICULTURAL ENTRANCE WIDTHS 35'
 48' WIDTH ALLOWED FOR SHARED ACCESS TO ADJACENT PROPERTIES.

ENTRANCE APRON & MAILBOX TURNOUT NEARSIDE OF ENTRANCE
 PLAN VIEW



MAILBOX TURNOUT TYPICAL APPLICATION
 PLAN VIEW



** ENTRANCES AT STATIONS 57+52.00, 58+00.00, 62+94.00, AND 146+00.00 SHALL HAVE AGGREGATE BASE COURSE, TYPE A, 13.5"

• PRIVATE ENTRANCE WIDTHS VARY BETWEEN 12' AND 24'
 COMMERCIAL/AGRICULTURAL ENTRANCE WIDTHS 35'
 48' WIDTH ALLOWED FOR SHARED ACCESS TO ADJACENT PROPERTIES.

ENTRANCE APRON & MAILBOX TURNOUT FAR SIDE OF ENTRANCE
 PLAN VIEW

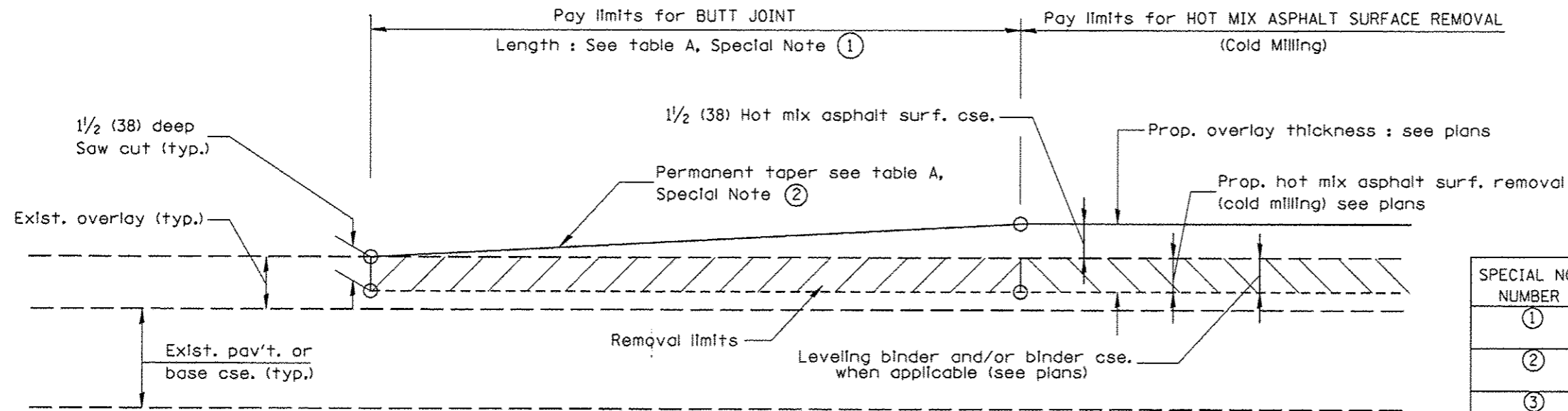
FILE NAME *	USER NAME * #USER#	DESIGNED -	REVISED -
#FILE#		DRAWN -	REVISED -
	PLOT SCALE * #SCALE#	CHECKED -	REVISED -
	PLOT DATE * #DATE#	DATE - MARCH 2013	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ENTRANCE & MAILBOX TURN OUT DETAILS	
SCALE:	SHEET NO. 81 OF 174 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	81
COUNTY HIGHWAY #4		CONTRACT NO. 89614		
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (106)				

DESIGNER NOTES:
 1. Include District Special Provision for Butt Joints & for Hot Mix Asphalt Removal (Cold Milling).
 2. The butt joints pay item includes the saw cut & temporary ramp. Payment for the Butt Joint applies whether or not the project features Hot Mix Asphalt Removal (Cold Milling).



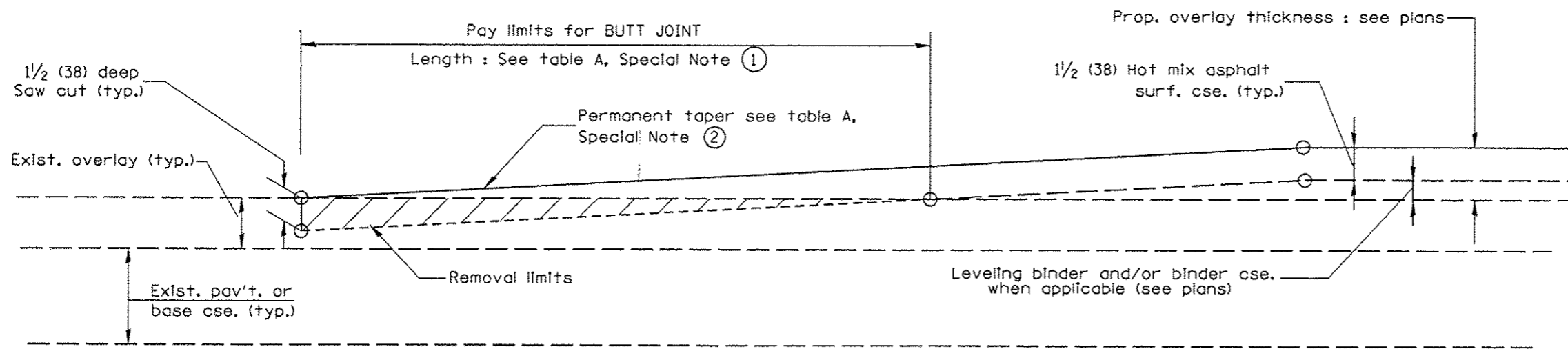
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

TABLE A
(LENGTHS AND TAPER RATES)

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	LENGTH OF BUTT JOINT	60'(18.0 m)	30'(9.0 m)
②	PERMANENT TAPER RATE	1:480	1:240
③	TEMPORARY RAMP TAPER RATE	1:80	1:40
④	TEMPORARY RAMP LENGTH	10'(3.0 m)	5'(1.5 m)
⑤	LENGTH OF BUTT JOINT	10'(3.0 m)	10'(3.0 m)

GENERAL NOTES

- The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
- The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
- The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.



CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.	
04-01-97	CORRECTION TO DEPTH	J.A.	
09-15-05	REVISED DESIGNER NOTE	M.M.A.	
10-16-06	REVISED TO 2007 SPEC.	M.A.	

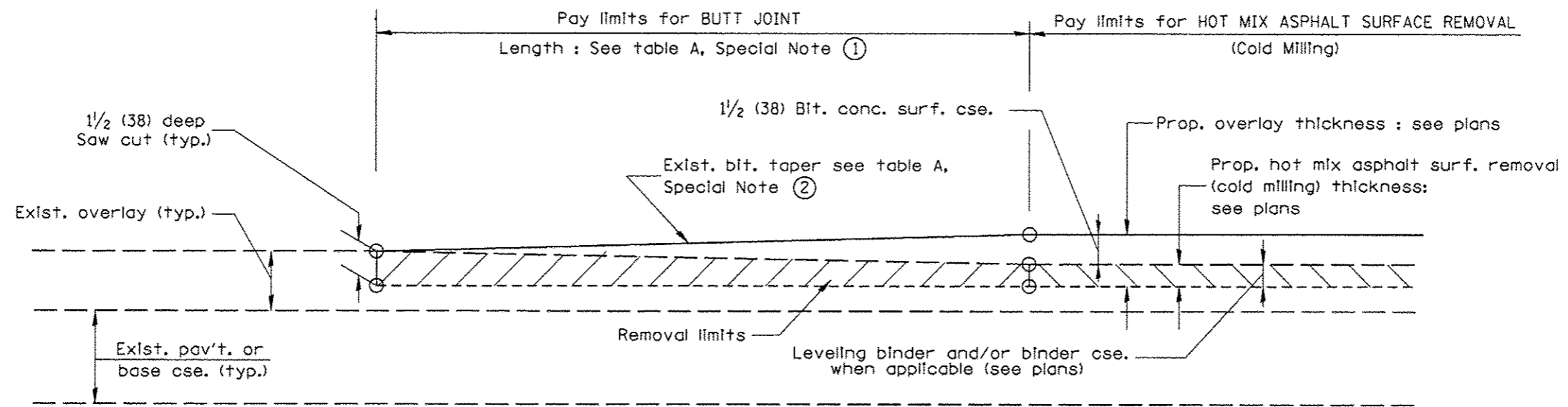
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS

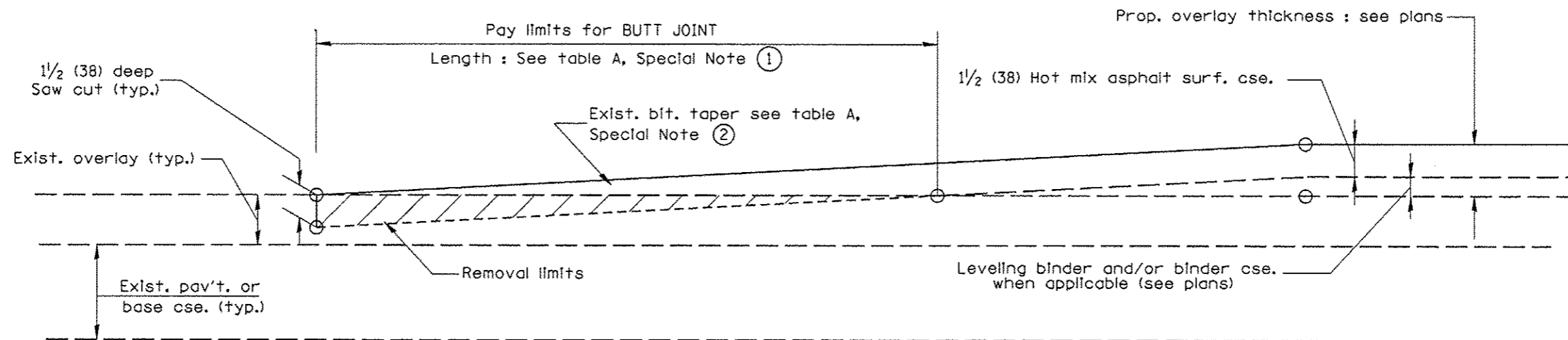
NOT TO SCALE

SHT. 1 OF 3
CADD STD. 406101-04

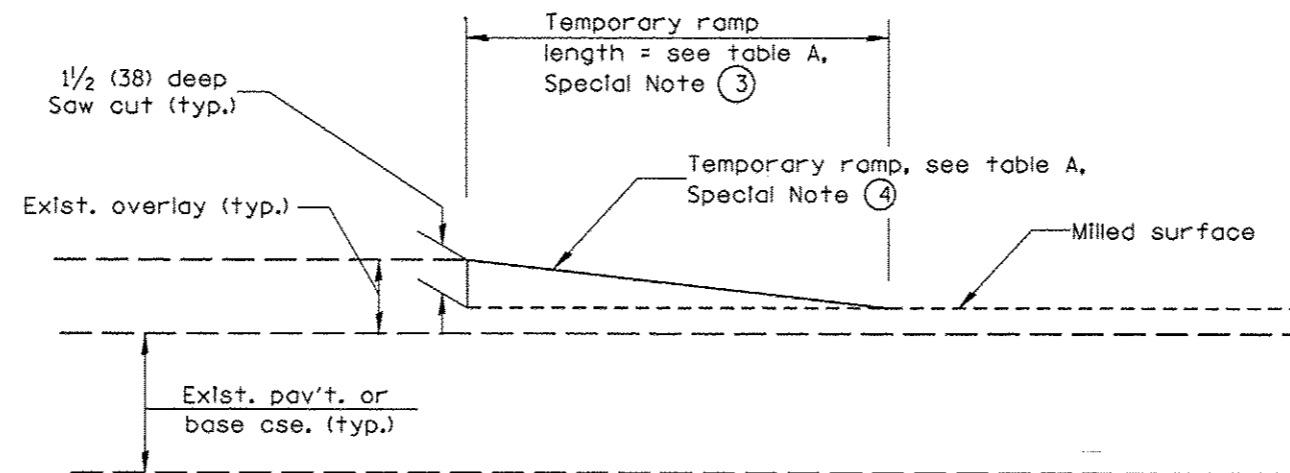
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	82
COUNTY HIGHWAY #4		CONTRACT NO. 89614		
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (105)				



**CASE 3 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**



**CASE 4 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**



DETAIL TEMPORARY RAMP

All dimensions are in inches (millimeters) unless otherwise noted.

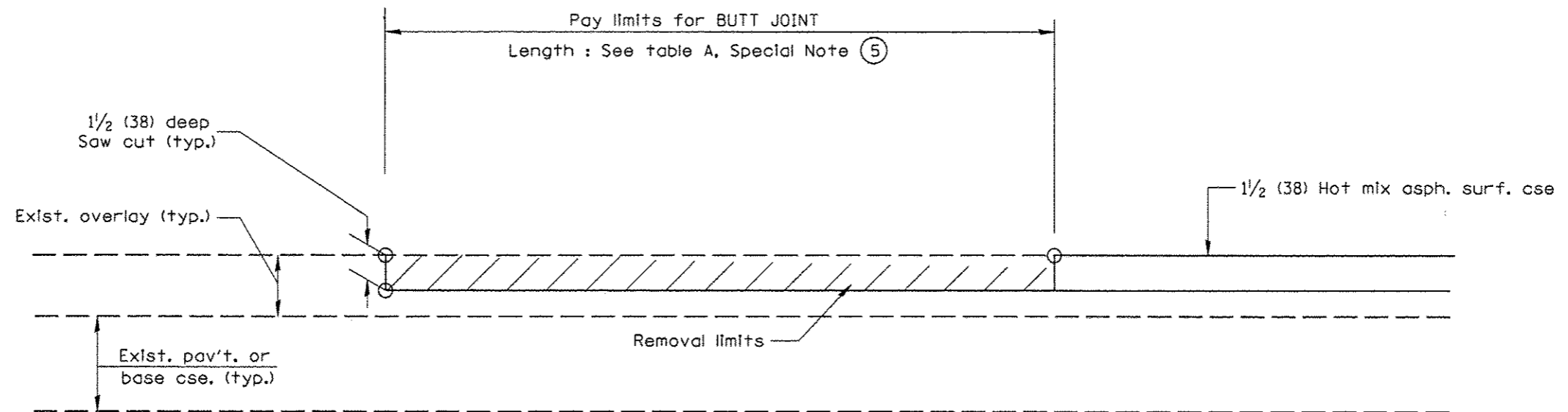
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS

NOT TO SCALE

SHT. 2 OF 3
CADD STD. 406101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	83
COUNTY HIGHWAY #4		CONTRACT NO. 89614		
FED. ROAD DIST. NO. 4 [ILLINOIS] FED. AID PROJECT RS-0393 (03)				



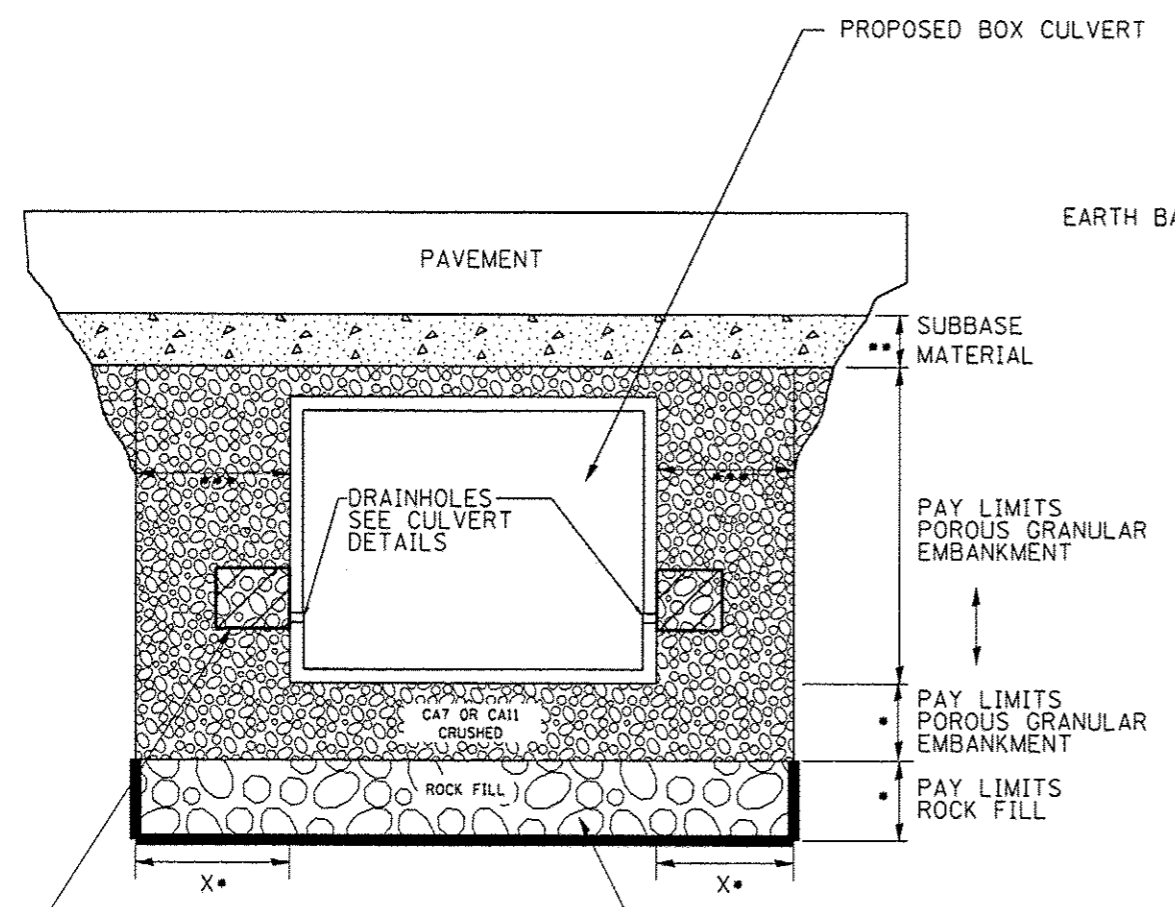
CASE 5 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER

All dimensions are in inches (millimeters) unless otherwise noted.

				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINTS			SHT. 3 OF 3 CADD STD. 406101-D4	<table border="1"> <tr> <th>F.A. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>393</td> <td>12-00001-01-RS</td> <td>KNOX</td> <td>174</td> <td>84</td> </tr> <tr> <td colspan="2">COUNTY HIGHWAY #4</td> <td colspan="3">CONTRACT NO. 89614</td> </tr> <tr> <td colspan="5">FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (105)</td> </tr> </table>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	393	12-00001-01-RS	KNOX	174	84	COUNTY HIGHWAY #4		CONTRACT NO. 89614			FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (105)				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																									
393	12-00001-01-RS	KNOX	174	84																									
COUNTY HIGHWAY #4		CONTRACT NO. 89614																											
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (105)																													
					NOT TO SCALE																								

1. IF DESIGN FILL IS < 2 FEET, CONTINUE PGE UP TO THE SUBBASE.
 2. IF DESIGN FILL IS ≥ 2 FEET AND ≤ 8 FEET OR DEPTH OF FILL ≤ SPAN OF LARGEST BOX IN CONFIGURATION, CONTINUE BACKFILLING WITH PGE.

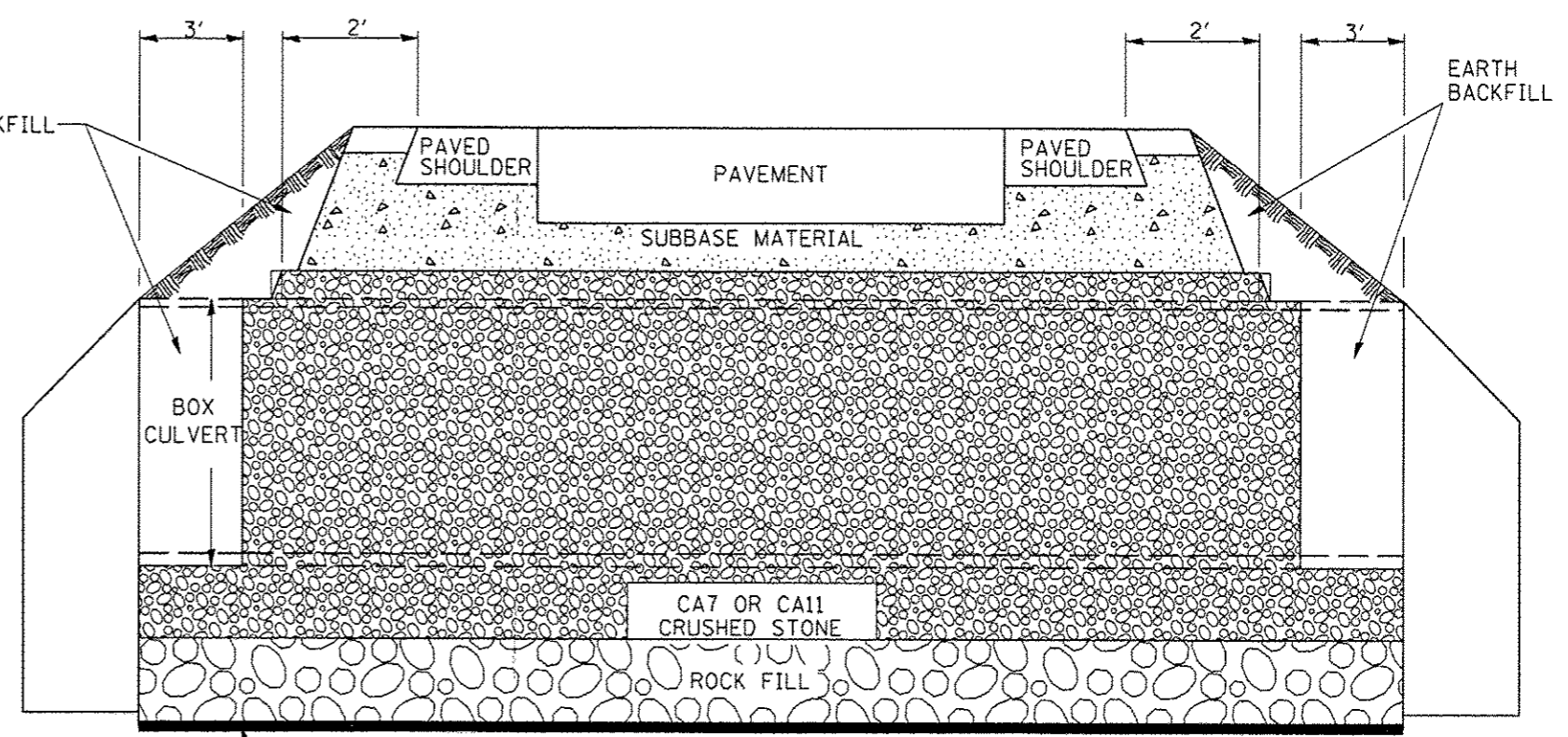
ROADWAY PROFILE VIEW



2' x 2' x 2' DEPOSIT OF CA 5, 7, OR 11 IN FABRIC ENVELOPE IN ACCORDANCE WITH ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS (TYPICAL)
 (IF UNDERCUT IS REQUIRED) PROPOSED REMOVAL & DISPOSAL OF UNSUITABLE, AND REPLACE WITH ROCK FILL WITH GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, PAID FOR BY RESPECTIVE PAY ITEMS.

- IF APPLICABLE, SEE UNDERCUT DETAIL FOR DEPTHS AND WIDTHS. IF THERE IS NO UNDERCUT, X = 2 FEET AND SEE NOTE 3 THIS SHEET.
- SUBBASE SHALL BE 6" MINIMUM LAYER OF CA6 CRUSHED STONE OR OTHER MATERIAL AS SPECIFIED IN THE PLANS.
- PAY LIMITS OF POROUS GRANULAR EMBARKMENT SHALL BE 2 FEET UNLESS OTHERWISE SHOWN IN THE PLANS.

ROADWAY CROSS SECTION VIEW



(IF UNDERCUT IS REQUIRED) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION

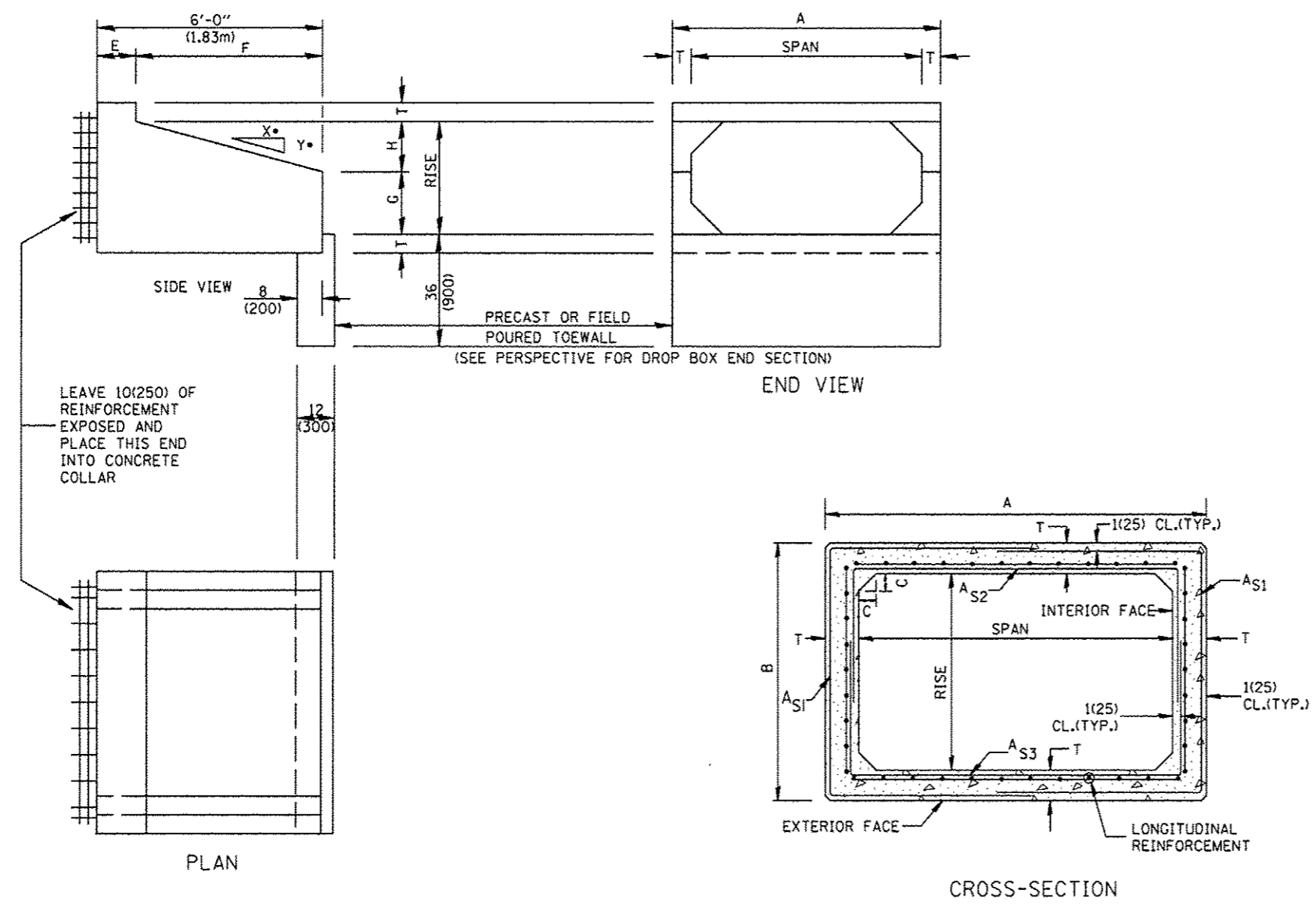
NOTES:

1. EXCEPT AS SPECIFIED IN THIS DETAIL, THE PLACEMENT AND COMPACTION OF BACKFILL SHALL BE IN ACCORDANCE WITH ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS.
2. POROUS GRANULAR EMBARKMENT SHALL BE PLACED IN ACCORDANCE WITH SECTION 207 OF THE STANDARD SPECIFICATIONS.
3. IF NO UNDERCUT IS REQUIRED, A 6" MINIMUM LAYER OF POROUS GRANULAR EMBARKMENT SHALL BE PLACED BELOW THE ELEVATION OF THE BOTTOM OF BOX CULVERT.

All dimensions are in inches (millimeters) unless otherwise noted.

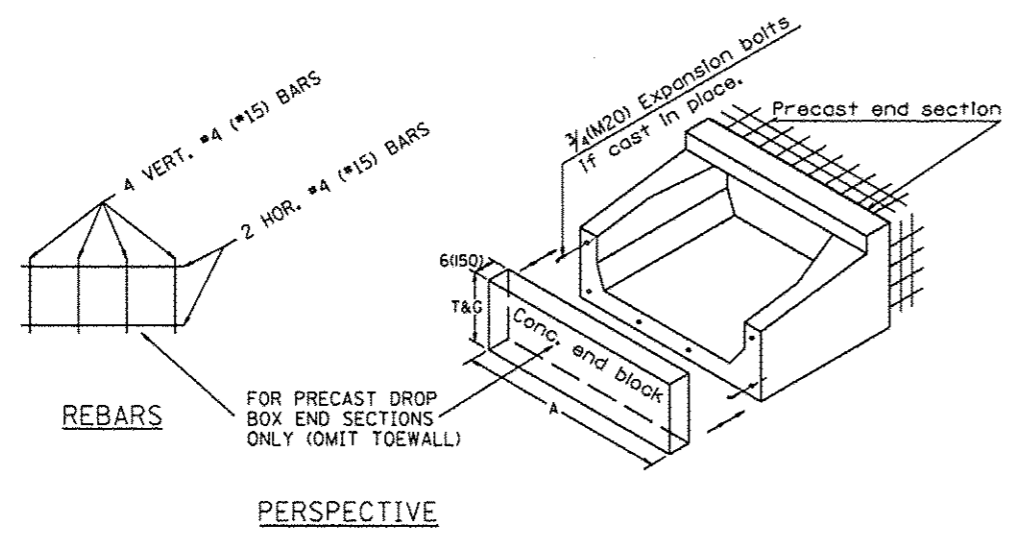
6-12-12	CREATED NEW STD.	R.D.																						
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION										DETAIL OF EXCAVATION AND BACKFILL FOR BOX CULVERTS					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
										NOT TO SCALE					393	12-00001-01-RS	KNOX	174	85					
										CADD STD. 540000					COUNTY HIGHWAY #4 CONTRACT NO. 89614					FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (105)				

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	86
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



- GENERAL NOTES:**
1. The Box Culvert Sections shall conform to ASTM C789 for 2' (0.6 m) cover or more. If less than 2' (0.6 m) of cover exists, then ASTM C-850 applies and modify Table 'B' and drawing.
 2. The Aggregate shall conform to the requirements of Articles 1003.02 and 1004.02 of the Standard Specifications. The gradation requirements do not apply.
 3. The External Sealing Band shall conform to ASTM C 877. The appropriate portions of Articles 550.02(i) and 1057.01 of the Standard Specifications shall apply.
 4. Shop plans for the Precast Reinforced Box Culvert Sections, End Sections and Drop Box End Sections shall be submitted in accordance with Article 540.06 of the Standard Specifications.
 5. All dimensions shall be verified with the Supplier.

DESIGNER NOTES:
 1. INSERT DISTRICT SPECIAL PROVISION.
 2. TO BE USED IN CONJUNCTION WITH CONCRETE COLLAR.



All dimensions are in Inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT CADD STANDARD

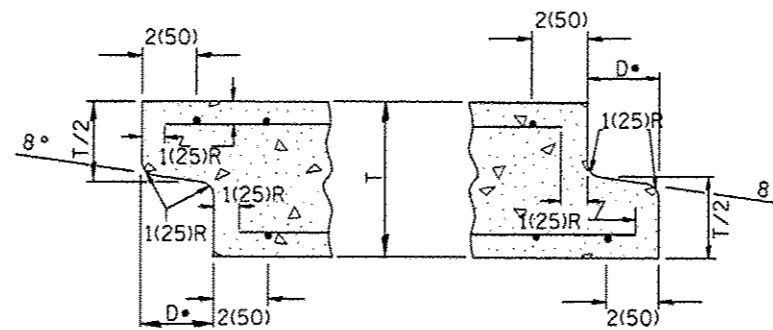
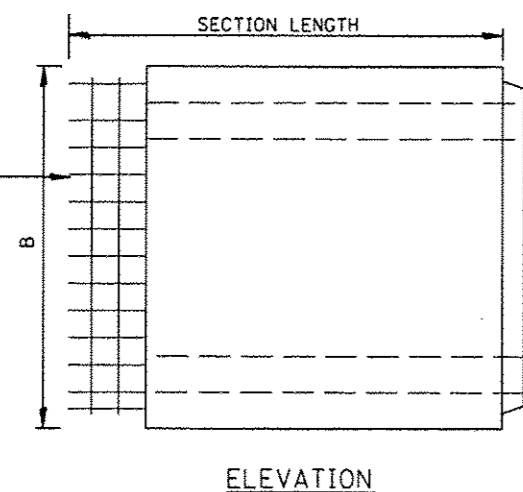
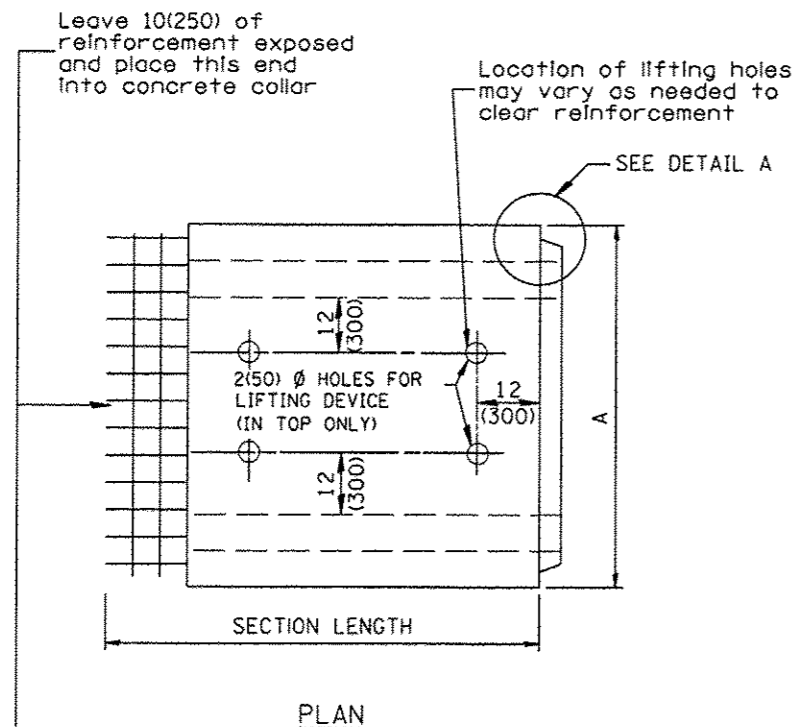
PRECAST CONCRETE BOX CULVERTS (SPECIAL), END SECTION (SPECIAL), & DROP BOX END SECTIONS (SPECIAL)

DATE	REVISIONS	BY
1-1-97	RENUM. J-12.08 AND J-12.09, NEW FORMAT, T.P. METRICS, NEW REVISION BOX, NOTES.	J.A.
5-1-97	CORRECT TITLE & GEN. NOTES	J.A.
6-17-98	CORRECT DIMENSIONS	J.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

CADD STANDARD 540401-D4(1)
 SCALE: NOT DRAWN TO SCALE
 DRAWN BY CADD
 CHECKED BY
 SHEET 1 OF 2

F.A. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	87
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

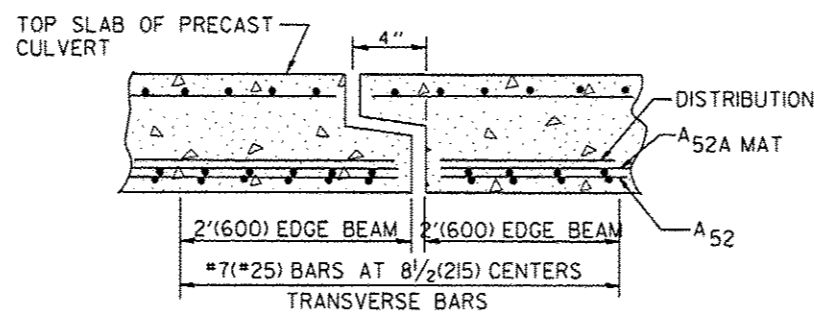
(DIMENSIONS APPLY TO END SECTION AND BOX SECTION DETAILS)



DETAIL A
(TYP. INLET END) (TYP. OUTLET END)

NOTE: Inlet and outlet ends shall be compatible.

*The D dimension shall conform to the manufacturer's standards.



TYP. JOINT SHOWING EDGE BEAM REINFORCEMENT

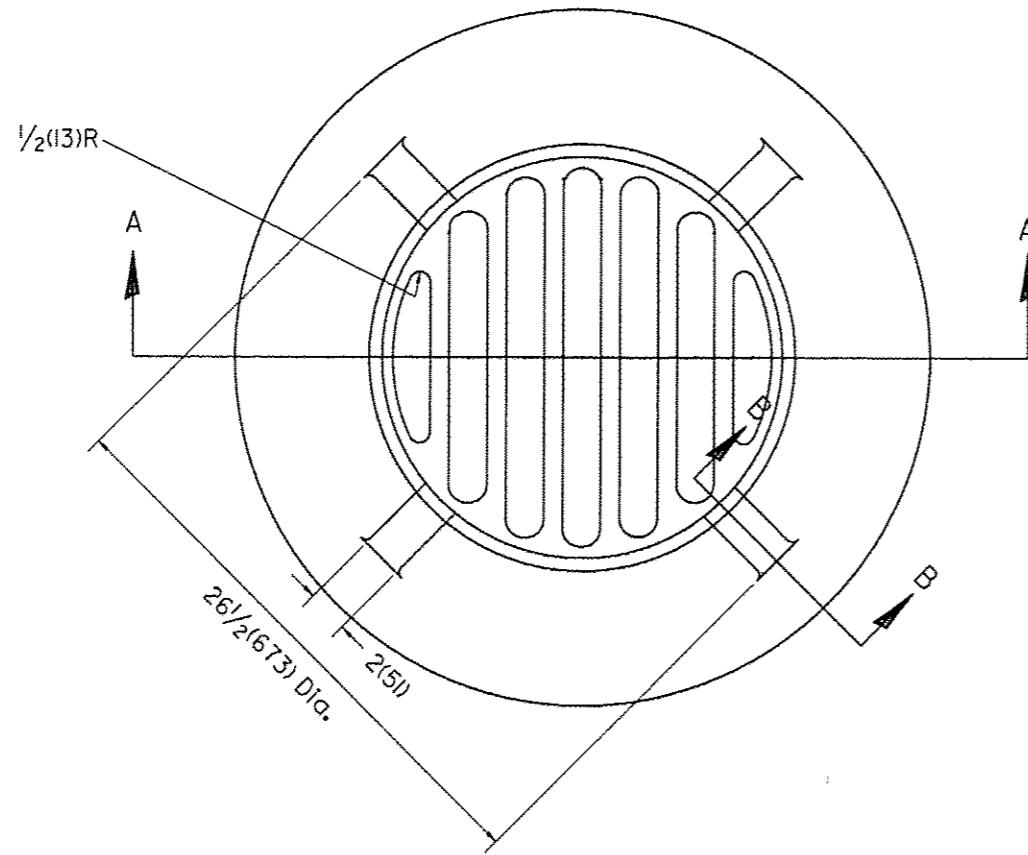
NOTE: The additional Reinforcing Steel required for edge beams shall have the same length as As2A. The required area, As10, may be combined with As2 in a single mat or placed in a separate layer as shown above. The additional Steel may be Welded Wire Fabric or grade 60 Deformed Bars.

(See GENERAL NOTES on sheet 1 of 2)

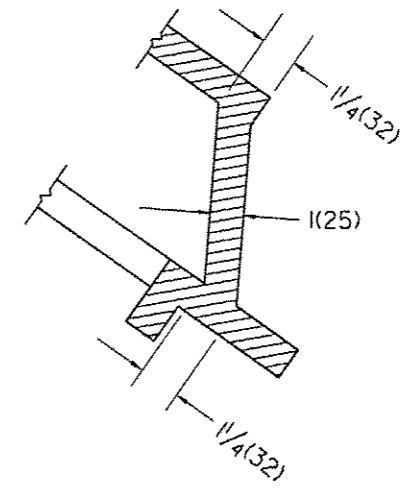
SPAN X RISE ft (mm)	T In (mm)	A	B	C In (mm)	E In (mm)	F	G	H In (mm)	SLOPE (Y : X)
2x2 (600x600)	4(100)	32(815)	32(815)	4(100)	9(229)	36(915)	12(305)	12(305)	1 : 3
2x3 (600x900)	4(100)	32(815)	3'-8" (1.12m)	4(100)	24(610)	4'-0" (1.22m)	20(510)	16(410)	1 : 3
3x2 (900x600)	4(100)	3'-8" (1.12m)	32(815)	4(100)	36(915)	36(915)	12(305)	12(305)	1 : 3
3x2.5 (900x750)	4(100)	3'-8" (1.12m)	38(965)	4(100)	30(760)	3'-6" (1.07m)	16(410)	14(355)	1 : 3
3x3 (900x900)	4(100)	3'-8" (1.12m)	3'-8" (1.12m)	4(100)	24(610)	4'-0" (1.22m)	20(510)	16(410)	1 : 3
4x2 (1200x600)	5(125)	4'-10" (1.48m)	34(865)	5(125)	36(915)	36(915)	12(305)	12(305)	1 : 3
4x3 (1200x900)	5(125)	4'-10" (1.48m)	3'-10" (1.17m)	5(125)	24(610)	4'-0" (1.22m)	20(510)	16(410)	1 : 3
4x4 (1200x1200)	5(125)	4'-10" (1.48m)	4'-10" (1.48m)	5(125)	24(610)	4'-0" (1.22m)	24(610)	24(610)	1 : 2
4x5 (1200x1500)	5(125)	4'-10" (1.48m)	5'-10" (1.78m)	5(125)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
4x6 (1200x1800)	5(125)	4'-10" (1.48m)	6'-10" (2.09m)	5(125)	24(610)	4'-0" (1.22m)	4'-0" (1.22m)	4'-0" (1.22m)	1 : 2
5x2 (1500x600)	6(150)	6'-0" (1.83m)	36(915)	6(150)	36(915)	36(915)	12(305)	12(305)	1 : 3
5x3 (1500x900)	6(150)	6'-0" (1.83m)	4'-0" (1.22m)	6(150)	24(610)	4'-0" (1.22m)	20(510)	16(410)	1 : 3
5x4 (1500x1200)	6(150)	6'-0" (1.83m)	5'-0" (1.52m)	6(150)	24(610)	4'-0" (1.22m)	24(610)	24(610)	1 : 2
5x5 (1500x1500)	6(150)	6'-0" (1.83m)	6'-0" (1.83m)	6(150)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
6x2 (1800x600)	7(175)	7'-2" (2.17m)	38(965)	7(175)	36(915)	36(915)	12(305)	12(305)	1 : 3
6x3 (1800x900)	7(175)	7'-2" (2.17m)	4'-2" (1.27m)	7(175)	24(610)	4'-0" (1.22m)	20(510)	16(410)	1 : 3
6x4 (1800x1200)	7(175)	7'-2" (2.17m)	5'-2" (1.57m)	7(175)	24(610)	4'-0" (1.22m)	24(610)	24(610)	1 : 2
6x5 (1800x1500)	7(175)	7'-2" (2.17m)	6'-2" (1.88m)	7(175)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
6x6 (1800x1800)	7(175)	7'-2" (2.17m)	7'-2" (2.17m)	7(175)	24(610)	4'-0" (1.22m)	4'-0" (1.22m)	24(610)	1 : 2
7x4 (2100x1200)	8(200)	8'-4" (2.54m)	5'-4" (1.63m)	8(200)	24(610)	4'-0" (1.22m)	24(610)	24(610)	1 : 2
7x5 (2100x1500)	8(200)	8'-4" (2.54m)	6'-4" (1.93m)	8(200)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
7x6 (2100x1800)	8(200)	8'-4" (2.54m)	7'-4" (2.24m)	8(200)	24(610)	4'-0" (1.22m)	4'-0" (1.22m)	24(610)	1 : 2
7x7 (2100x2100)	8(200)	8'-4" (2.54m)	8'-4" (2.54m)	8(200)	24(610)	4'-0" (1.22m)	5'-0" (1.52m)	24(610)	1 : 2
8x4 (2400x1200)	8(200)	9'-4" (2.84m)	5'-4" (1.63m)	8(200)	24(610)	4'-0" (1.22m)	24(610)	24(610)	1 : 2
8x5 (2400x1500)	8(200)	9'-4" (2.84m)	6'-4" (1.93m)	8(200)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
8x6 (2400x1800)	8(200)	9'-4" (2.84m)	7'-4" (2.24m)	8(200)	24(610)	4'-0" (1.22m)	4'-0" (1.22m)	24(610)	1 : 2
9x5 (2700x1500)	9(225)	10'-6" (3.2m)	6'-6" (1.98m)	9(225)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
9x6 (2700x1800)	9(225)	10'-6" (3.2m)	7'-6" (2.29m)	9(225)	24(610)	4'-0" (1.22m)	4'-0" (1.22m)	24(610)	1 : 2

All dimensions are in inches (millimeters) unless otherwise noted.

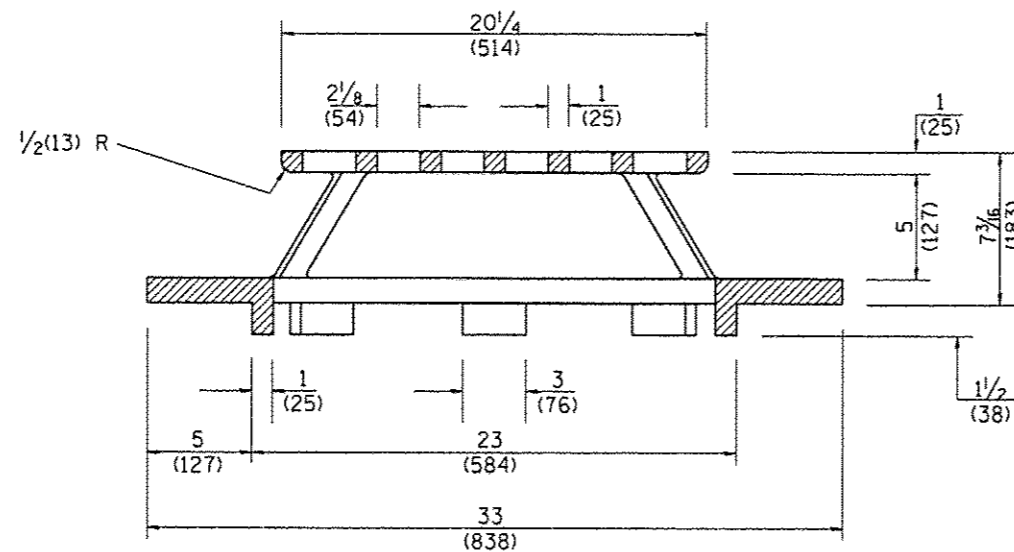
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD
PRECAST CONCRETE BOX CULVERTS (SPECIAL), END SECTION (SPECIAL), & DROP BOX END SECTIONS (SPECIAL)
CADD STANDARD 540401-D4(2) SCALE: NOT TO SCALE
DRAWN BY CADD CHECKED BY SHEET 2 OF 2



PLAN



SECTION B - B



SECTION A - A

GENERAL NOTES

- MATERIAL - Cast Gray Iron
Weight 209 lbs (95 kg)

DESIGNER NOTE:
1. INCLUDE DISTRICT SPECIAL PROVISION.

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. B-10.02, NEW REVISION BOX	T.P.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

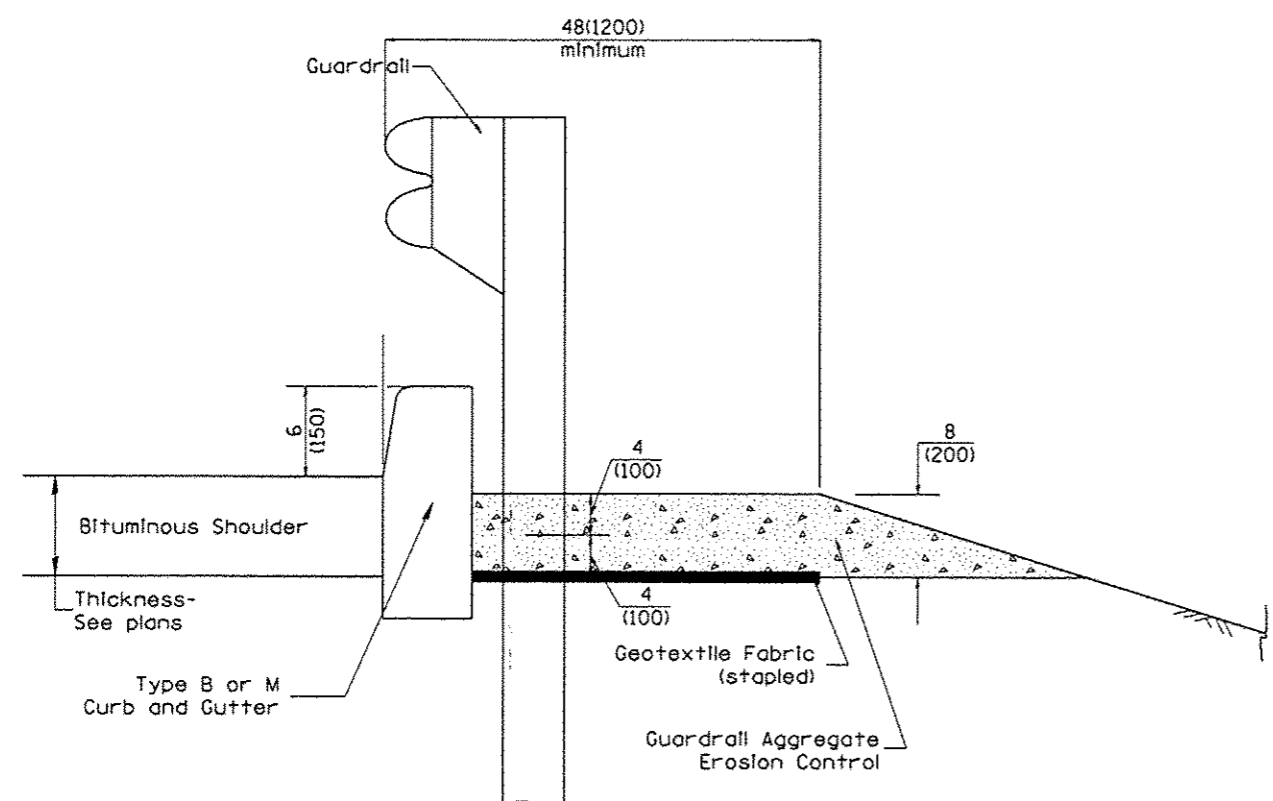
TYPE 37 GRATE

NOT TO SCALE

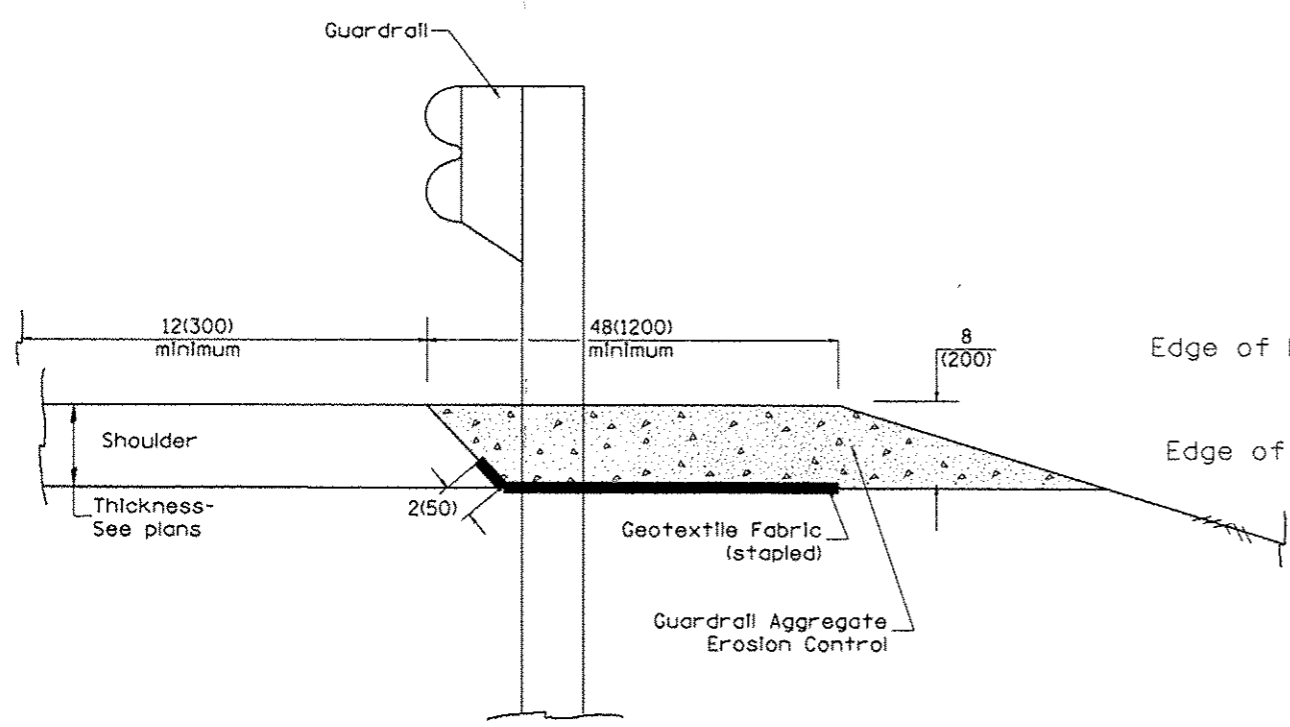
CADD STD. 604301-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	88
COUNTY HIGHWAY #4		CONTRACT NO. 89614		
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT RS-0393 1105				

DESIGNER NOTES:
 1. Consider using a "B" curb pay item of guardrail installations where grades are equal to or greater than 1% and at inlets. [Include District Special Provision]
 2. Use GUARDRAIL AGGREGATE EROSION CONTROL at guardrail installations where grades are less than 1% (include District Special Provision)
 3. Include State Standards 609001, 609006 or 610001 if applicable.
 4. Include the following District Cadd Standards as needed: Slope Drains for Exposed Pipes; Slope Drains for Buried Pipes; Seepage Collars for Buried Pipes; Seepage Collars for Exposed Pipes; Concrete Thrust Blocks and Pipe Elbow.
 5. Include District Special Provision "Aggregate Quality" for projects located in the Western Area of the District - approx. dividing line is IL 97.



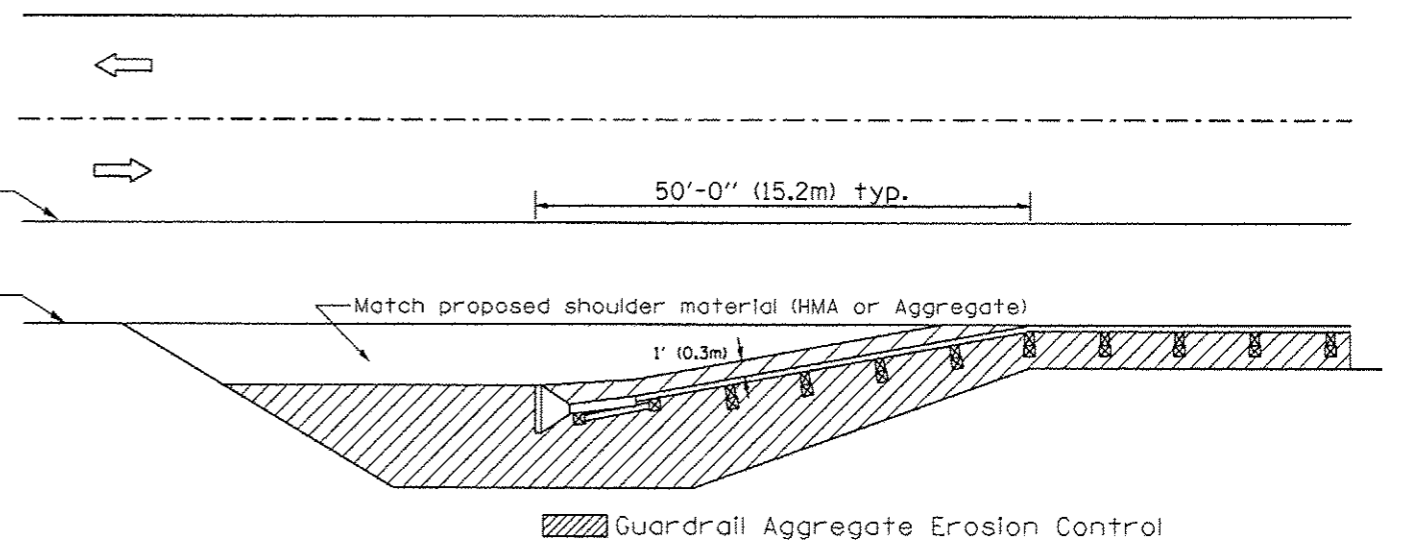
TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
 - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
 - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-22.01, NEW REVISION BOX	T.P.	3-7-11	Added Detail showing plan view	R.D.
03-01-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.	8-10-12	Revised curb "B" and aggregate	R.D.
11-03-00	CORRECTION TO NOTES	M.A.			
10-16-06	REVISED TO 2007 SPEC.	M.A.			

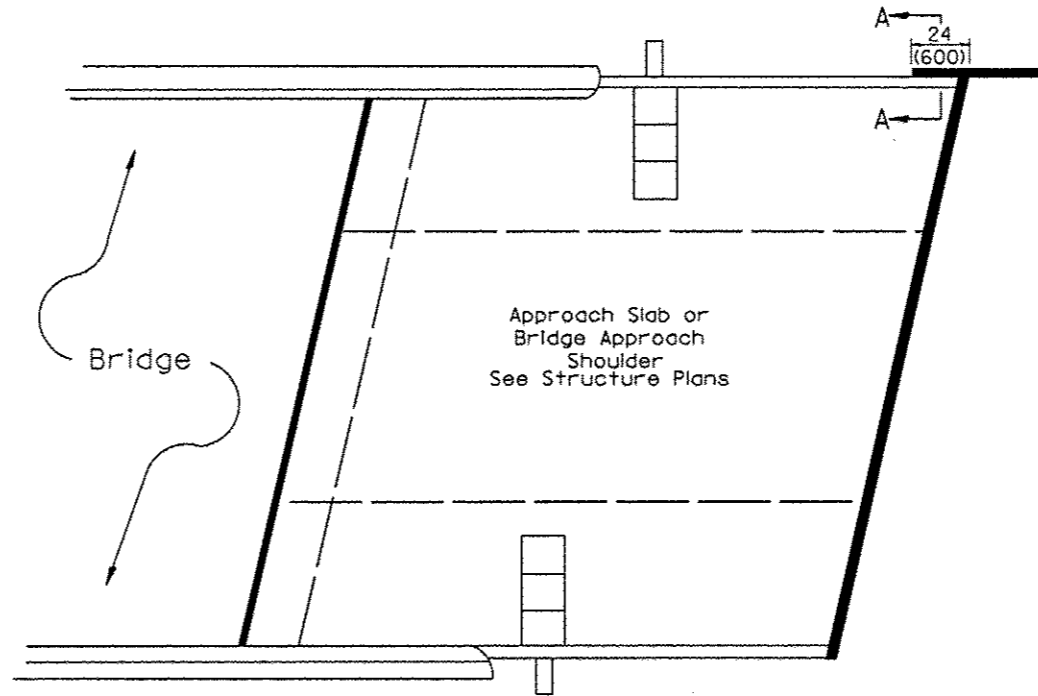
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

NOT TO SCALE

SHT. 1 OF 2
 CADD STD. 630101-D4

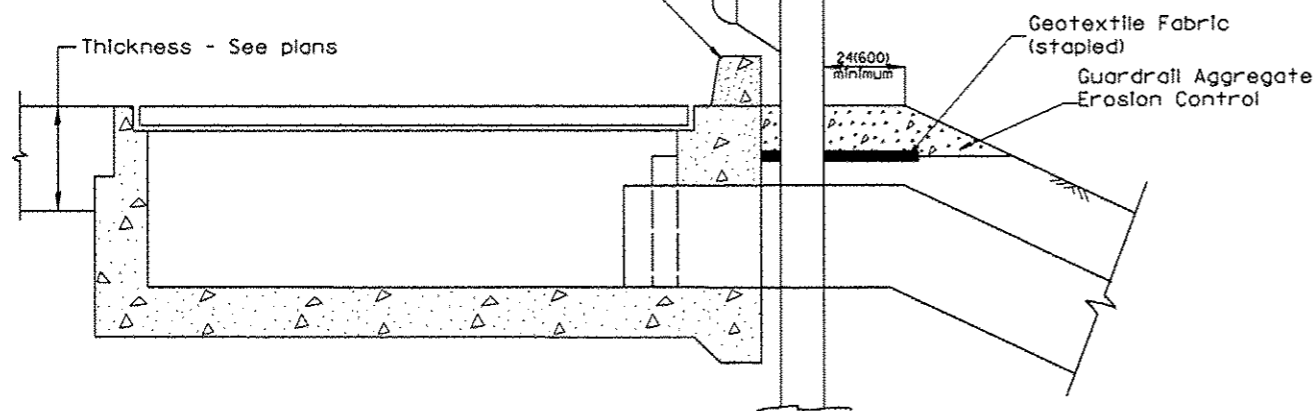
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	89
COUNTY HIGHWAY #4		CONTRACT NO. 89614		
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (105)				



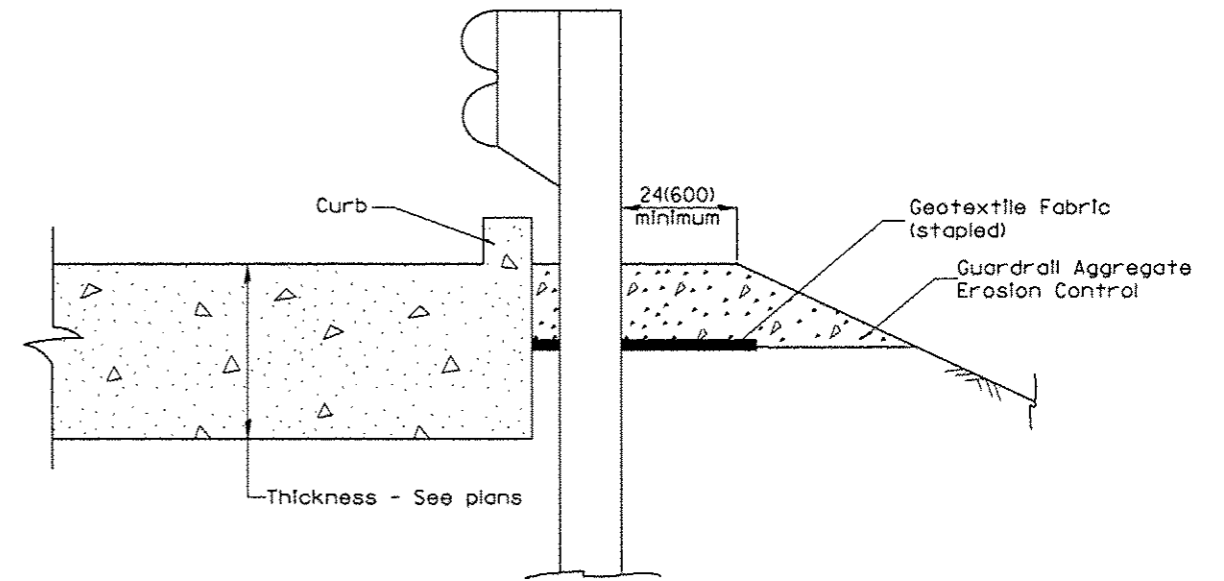
PLAN VIEW

APPROACH SLAB OR BRIDGE APPROACH SHOULDER
(STANDARD 609001 or 609006)

Type B or M curb.
Install an 8' long #4 epoxy coated reinforcement bar across the Inlet box. Cut and seal a contraction joint at each edge of the Inlet box in accordance with Article 420.12 of the standard specifications.



TYPICAL SECTION AT INLETS
TYPE E & F (STANDARD 610001)



SECTION A-A
TYPICAL SECTION WITH BRIDGE APPROACH CURB

All dimensions are in Inches (millimeters) unless otherwise noted.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				GUARDRAIL EROSION CONTROL TREATMENTS				SHT. 2 OF 2 CADD STD. 630101-D4		<table border="1"> <tr> <th>F.A. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>393</td> <td>12-00001-01-RS</td> <td>KNOX</td> <td>174</td> <td>90</td> </tr> <tr> <td colspan="3">COUNTY HIGHWAY #4</td> <td colspan="2">CONTRACT NO. 89614</td> </tr> <tr> <td colspan="5">FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (105)</td> </tr> </table>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	393	12-00001-01-RS	KNOX	174	90	COUNTY HIGHWAY #4			CONTRACT NO. 89614		FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (105)				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																											
393	12-00001-01-RS	KNOX	174	90																											
COUNTY HIGHWAY #4			CONTRACT NO. 89614																												
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (105)																															

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Typical box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements of AASHTO M 259 or M 273 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

Number of sections shown in Side Elevation is for example only. Length and number of precast box sections required to construct Box Culvert End Sections shall be determined by the Contractor.

See roadway plans for embankment slope (V:H).

1" ϕ anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. All anchor rods in a culvert tie assembly shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

Alternate culvert ties similar in strength and stiffness to the plan details may be provided by the Contractor. Alternate culvert ties shall be subject to approval of the Engineer.

The headwall may be cast monolithically with the box section or a superimposed headwall may be cast directly onto the box sections. Anchor rods shall conform to the requirements of Article 1006.09 of the Standard Specifications and the anchor rods and associated hardware for securing the superimposed headwall to the box section shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. Class SI concrete may be used for construction of superimposed headwall.

In lieu of using ferrule loop inserts, the Contractor may attach the superimposed headwall to the box section by epoxy grouting reinforcement bars according to the requirements of Section 584 of the Standard Specifications. The chemical adhesive system shall be capable of achieving the minimum proof load stated with drilled hole depths that do not exceed 2/3 of the thickness of the slab of the box section.

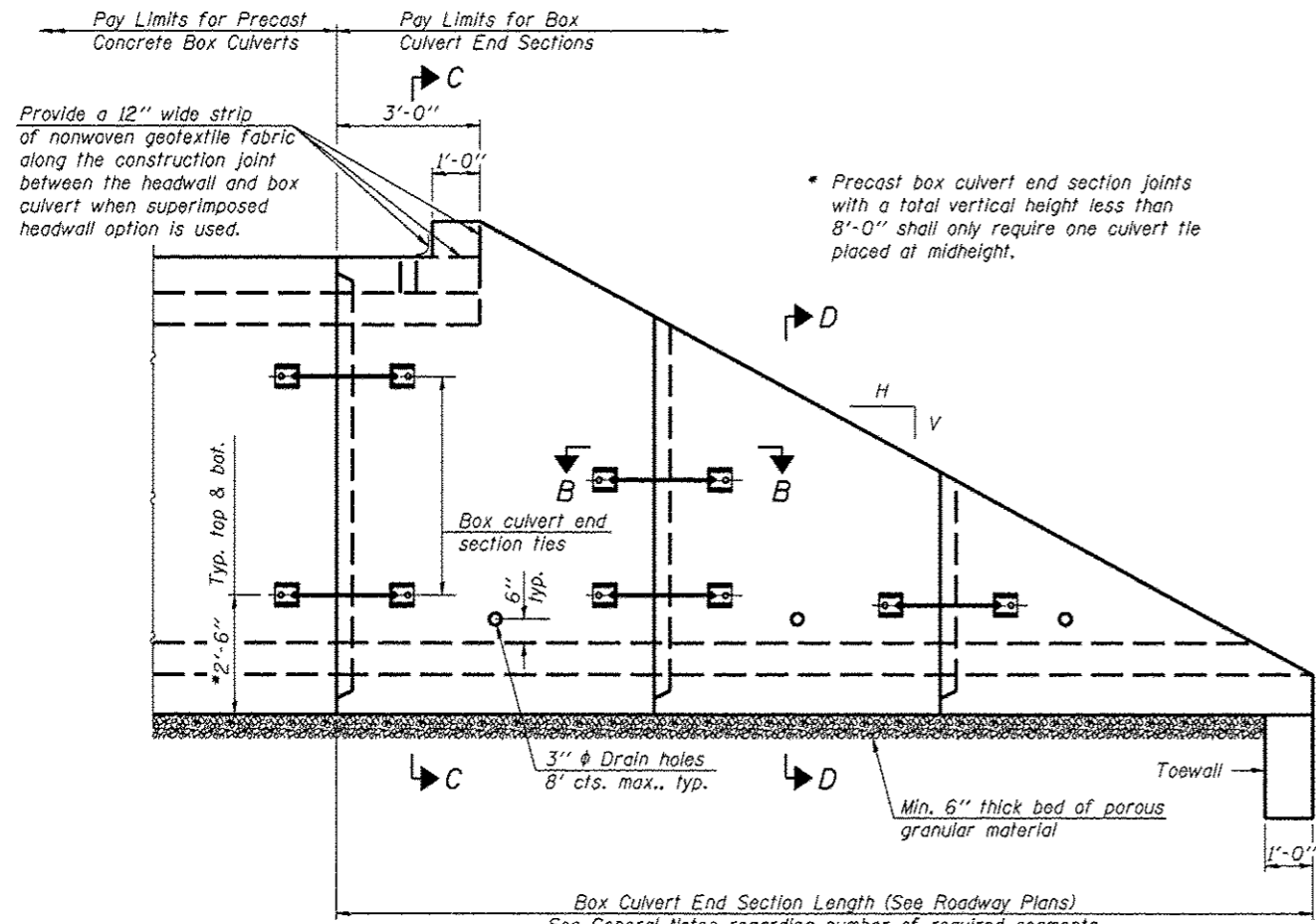
All costs associated with furnishing and installing or constructing the geotextile fabric, toewall, headwall, and culvert ties will not be measured for payment but shall be included in the contract unit price for Box Culvert End Sections of the culvert number specified.

Reinforcement bars designated (E) shall be epoxy coated.

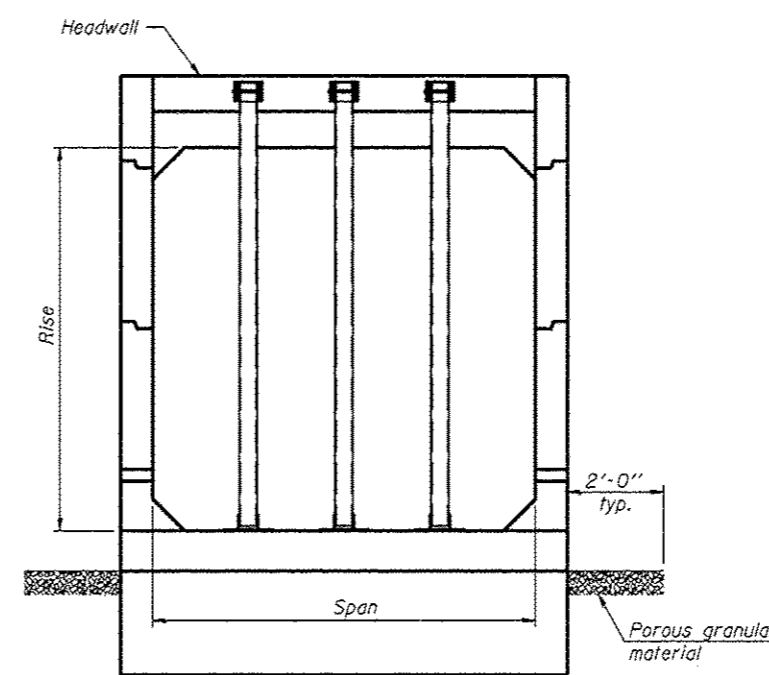
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60.

Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

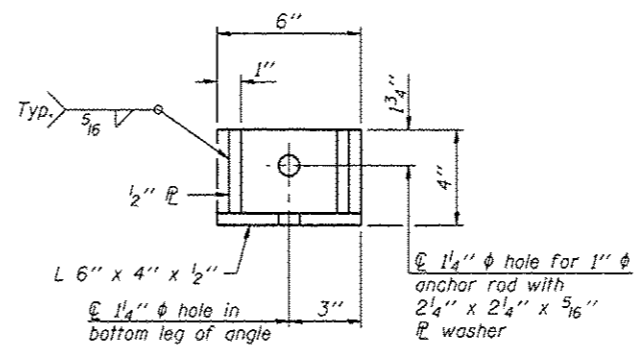
Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd.



SIDE ELEVATION



END VIEW



RESTRAINT ANGLE DETAIL

12" x 12" block of CA5, CA7 or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric.

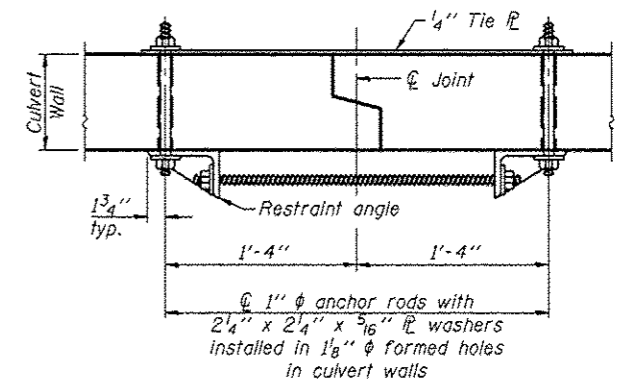
Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Fabric shall be sealed to the concrete with mastic.

3" ϕ PVC drain cast with the concrete (Adjust location to clear reinforcement).

1/2" Square foam blockout around PVC drain (to be removed after concrete has cured)

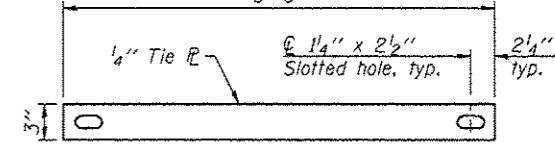
SECTION A-A

(All costs associated with furnishing and constructing the above drain details will not be measured for payment but shall be included in the contract unit price for the end section.)

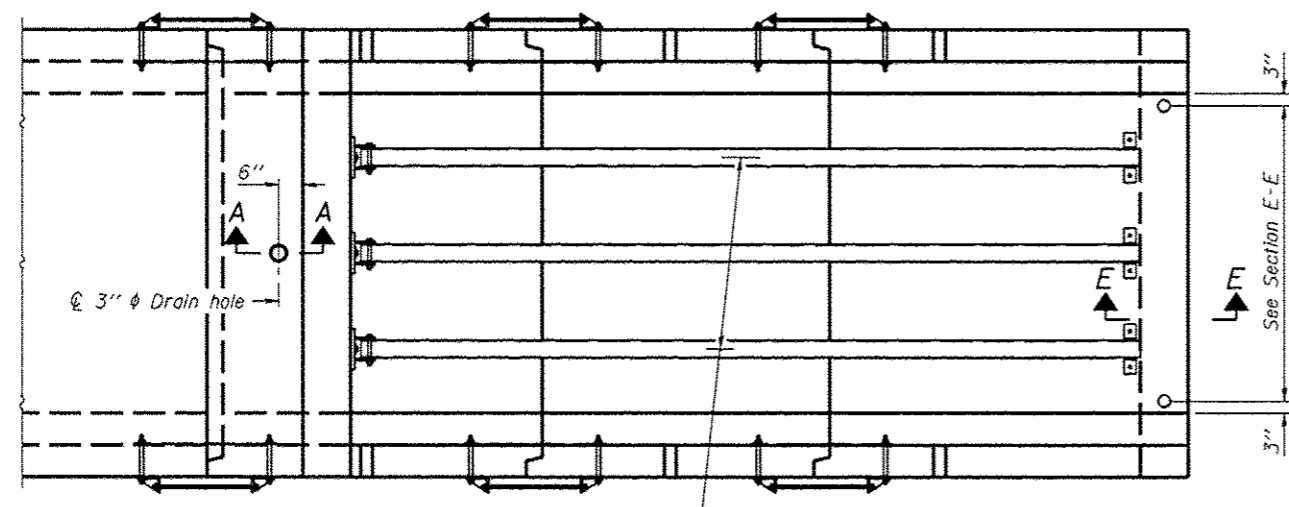


SECTION B-B

(Showing culvert tie details)



TIE PLATE DETAIL



PLAN VIEW

2-16-11

DESIGNED -	EXAMINED	DATE -
CHECKED -	ENGINEER OF BRIDGE DESIGN	
DRAWN -	PASSED	
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SINGLE CELL PRECAST BOX CULVERT END SECTIONS
WITH PIPE GRATES**

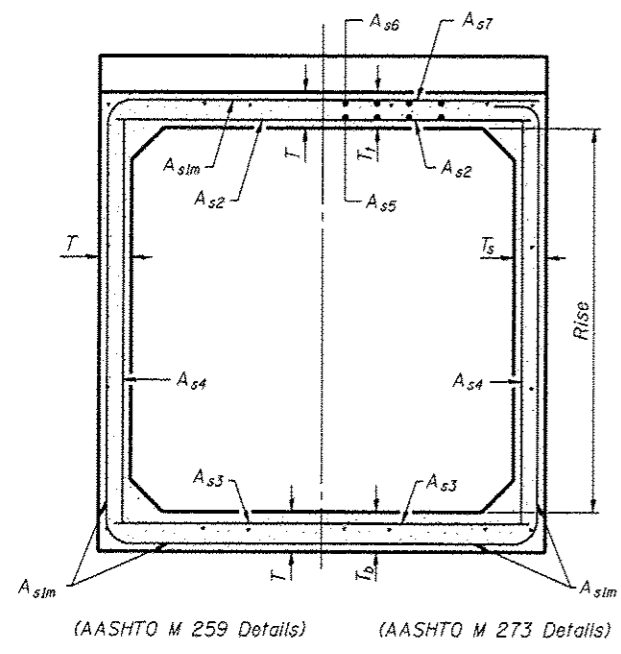
SHEET NO. 1 OF 3 SHEETS

F.A. RTE. 393	SECTION 12-00001-01-RS	COUNTY KNOX	TOTAL SHEETS 174	SHEET NO. 91
COUNTY HIGHWAY #4		CONTRACT NO. 89614		
FED. ROAD DIST. NO. 4 (ILLINOIS) FED. AID PROJECT RS-0393 (105)				

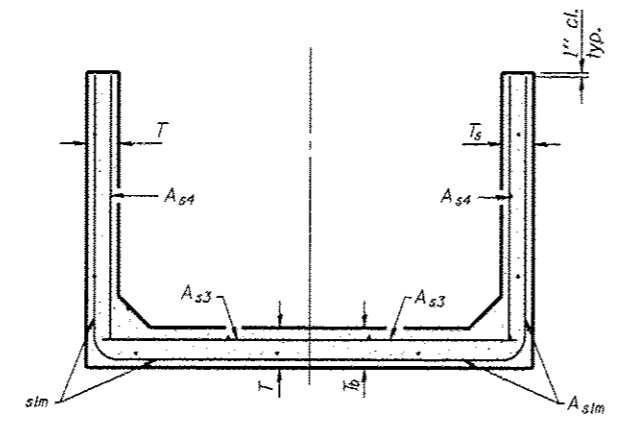
(Sheet 1 of 3)

T(in.), T _s (in.)	Reinforcing Steel A _{stm} (in. ² /ft.)											
	2	3	4	5	6	7	8	9	10	11	12	
4	0.19	0.15										
5	0.26	0.21	0.18									
6		0.26	0.23	0.22								
7		0.33	0.29	0.27	0.28							
8			0.43	0.39	0.36	0.34	0.40					
9				0.43	0.40	0.37	0.36	0.48				
10				0.47	0.44	0.41	0.38	0.42	0.56			
11					0.54	0.46	0.41	0.50	0.65			
12					0.58	0.50	0.45	0.46	0.50	0.75		

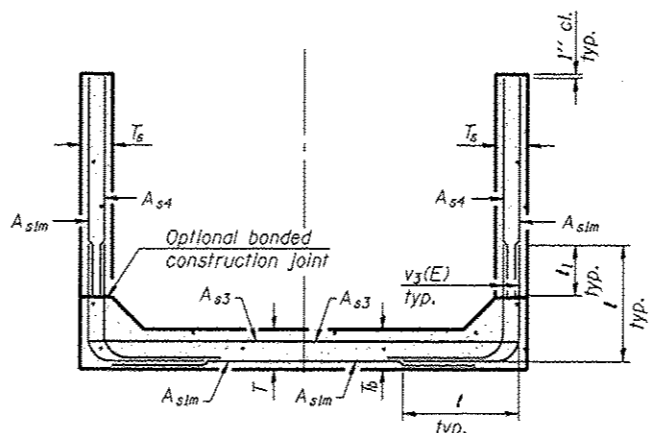
(A_{stm} reinforcement based upon welded wire fabric conforming to AASHTO M 55 or M 221).



SECTION C-C



SECTION D-D

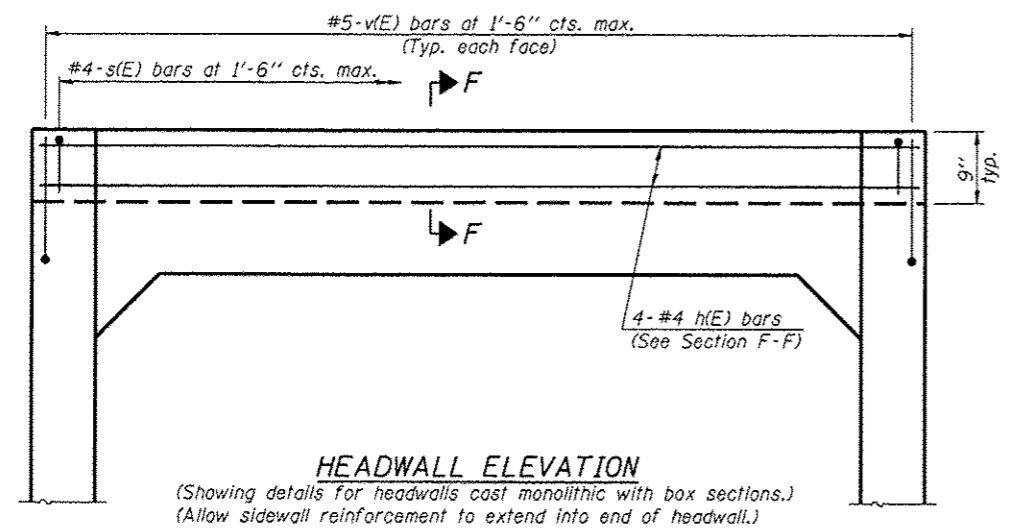


ALTERNATE SECTION D-D

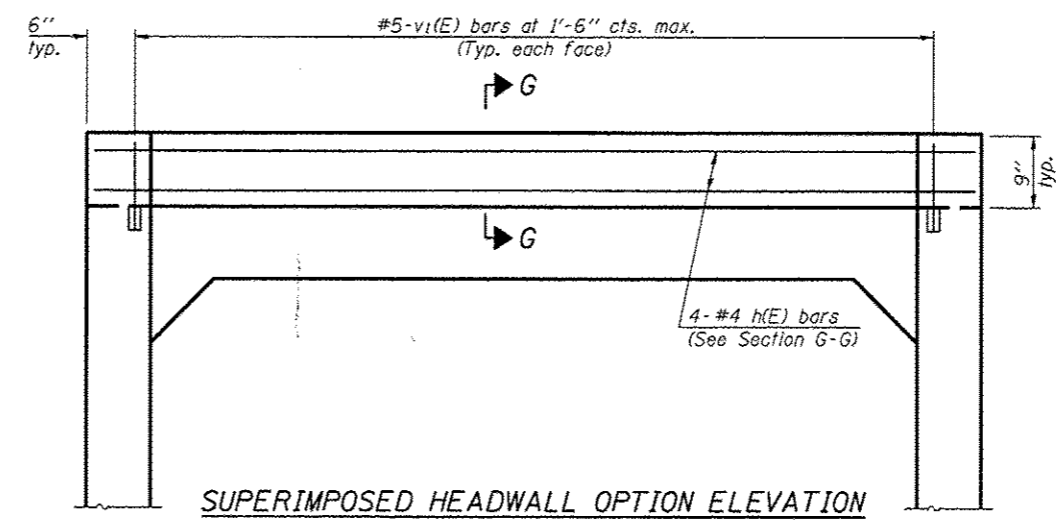
L₁ DIMENSION

- #3 bar = 2'-0"
- #4 bar = 2'-8"
- #5 bar = 3'-4"
- #6 bar = 3'-11"

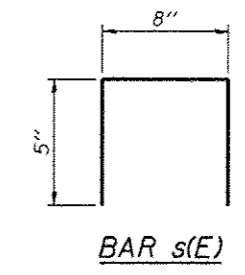
Notes:
 Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval when using Alternate Section D-D.
 The size and spacing of the v₃(E) bars shall provide a minimum reinforcement area along each face of the walls (in.²/ft.) equal to 1.10*(A_{stm}). v₃(E) bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.
 Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.



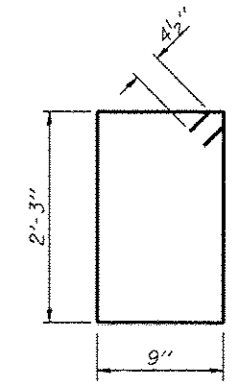
HEADWALL ELEVATION
 (Showing details for headwalls cast monolithic with box sections.)
 (Allow sidewall reinforcement to extend into end of headwall.)



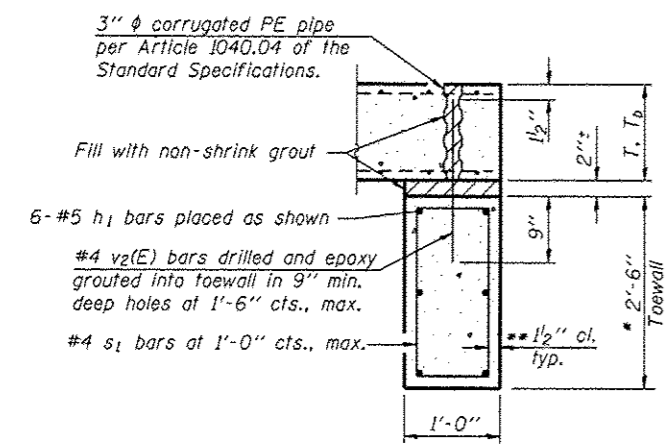
SUPERIMPOSED HEADWALL OPTION ELEVATION



BAR s(E)



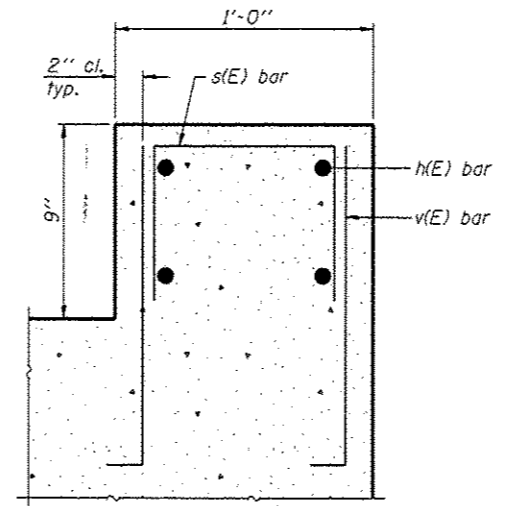
BAR s₁



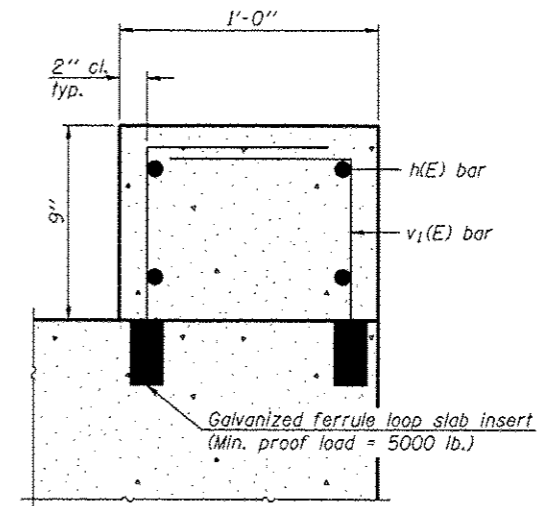
SECTION E-E

TOEWALL CONSTRUCTION SEQUENCE

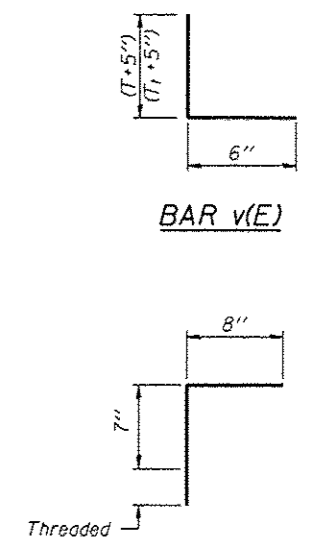
1. Perform excavation and construct toewall.
 2. Backfill accordingly and place bedding for precast box culvert end sections.
 3. Set precast box culvert end sections in place.
 4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.
 5. The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling the method.
- ** If soil conditions permit, the sides of the toewall may be paired directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



SECTION F-F



SECTION G-G



BAR v₁(E)

2-16-11

(Sheet 2 of 3)

DESIGNED -	EXAMINED	DATE -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SINGLE CELL PRECAST BOX CULVERT END SECTIONS WITH PIPE GRATES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED -	ENGINEER OF BRIDGE DESIGN				393	12-00001-01-RS	KNOX	174	92	
DRAWN -	PASSED				COUNTY HIGHWAY #4	CONTRACT NO. B9614				
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES				SHEET NO. 2 OF 3 SHEETS		FED. ROAD DIST. NO. 4 [ILLINOIS] FED. AID PROJECT RS-0393 (105)			

GENERAL NOTES

Length and number of steel pipes shall be determined by the Contractor in accordance with the spacing limits shown. All steel pipe shall be standard weight (Sch. 40) unless otherwise noted.

All components of the Steel Pipe Grate System shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable.

Fabrication of the Steel Pipe Grate System shall conform to the requirements in Section 505 of the Standard Specifications unless noted otherwise.

Structural steel shapes and plates shall conform to the requirements of Article 1006.04 of the Standard Specifications. Steel pipes shall conform to the requirements of ASTM A 53 (Type E or S), Grade B.

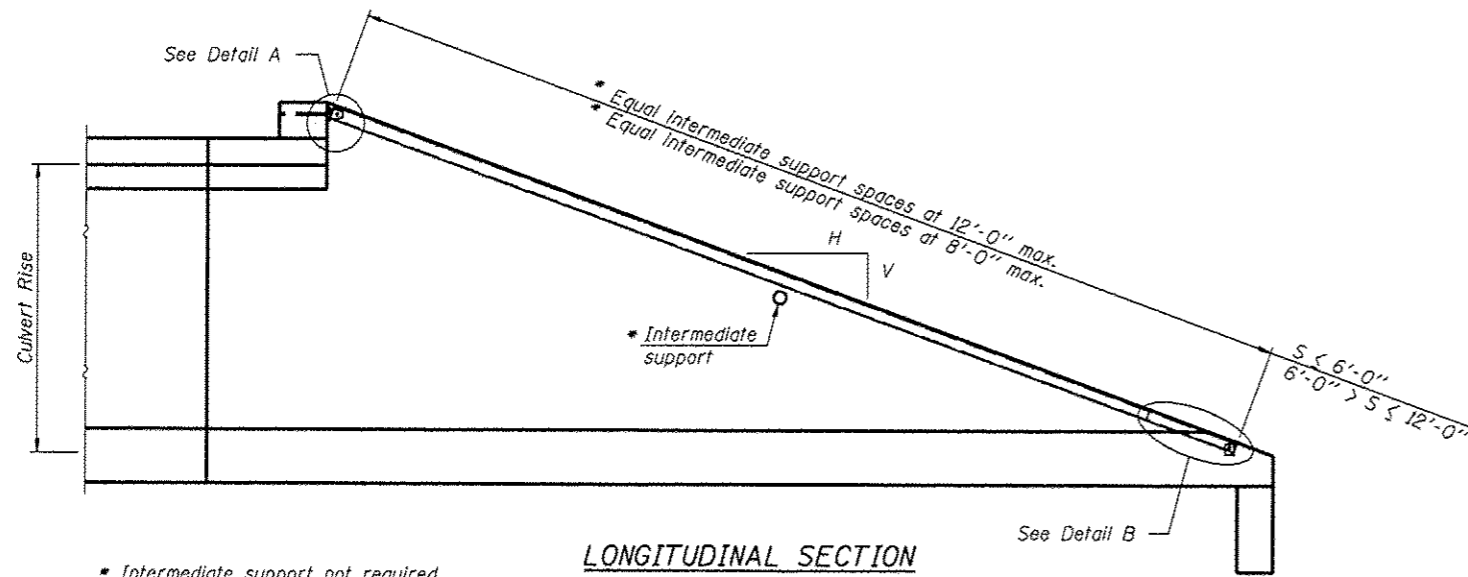
Anchor rods shall conform to the requirements of ASTM F1554, Grade 105. Anchor rods shall be drilled and epoxy grouted according to the requirements of Section 584 of the Standard Specifications. The chemical adhesive system shall be capable of achieving a minimum proof load of 5000 pounds and an ultimate shear capacity of 8000 pounds per anchor.

Bolts and thru bolts shall conform to the requirements of Article 1006.08 of the Standard Specifications except threaded rods conforming to the requirements of ASTM F1554, Grade 105 may be used for the thru bolts.

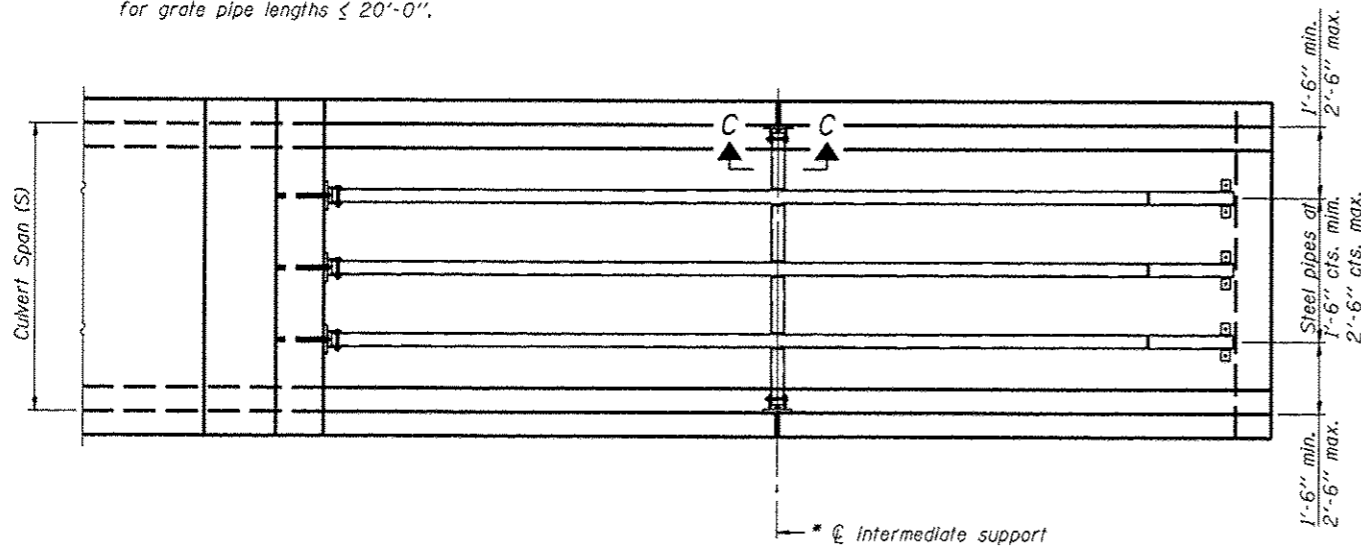
The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be $\frac{1}{2}$ " unless noted otherwise.

Bolts and anchor rods shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench.

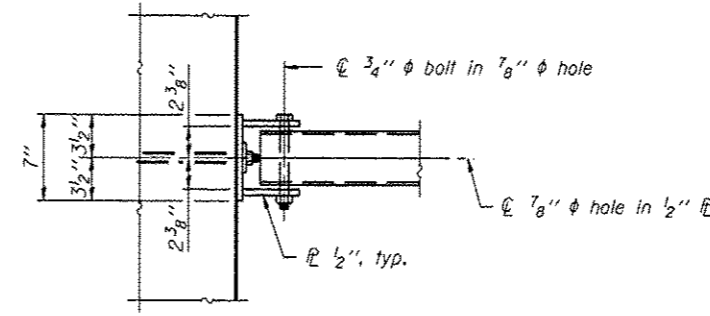
All cost associated with fabricating, furnishing, and installing the Steel Pipe Grate System including the steel pipes, steel plates, bolts, nuts and washers shall be included in the contract unit price for Traversable Pipe Grate.



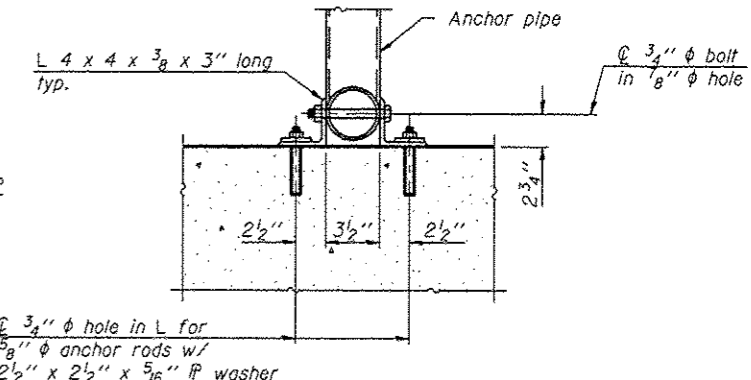
LONGITUDINAL SECTION



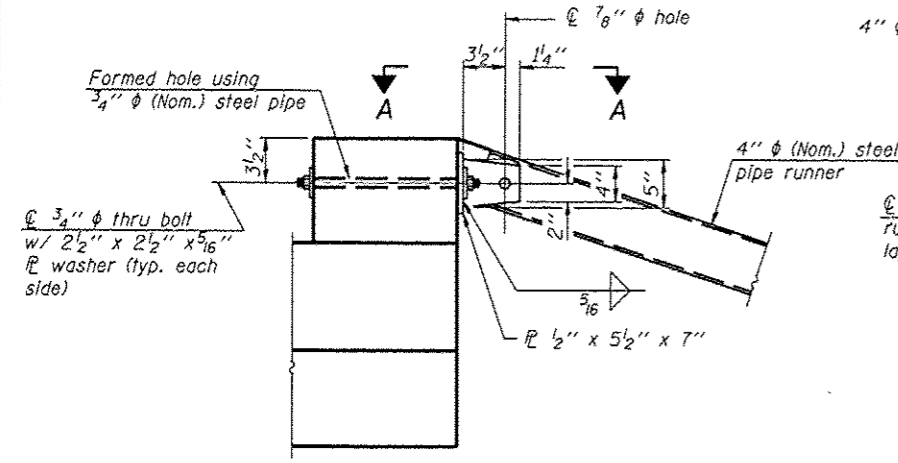
PLAN VIEW



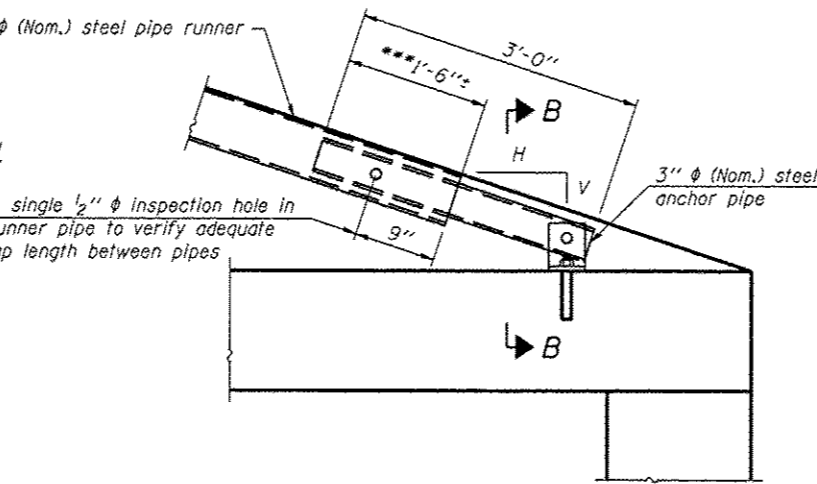
VIEW A-A



SECTION B-B

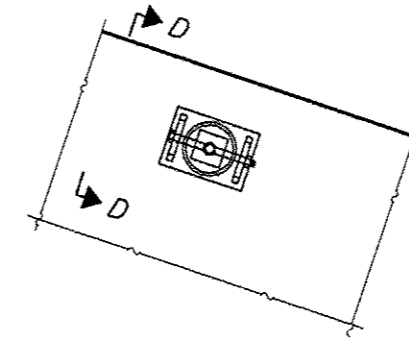


DETAIL A



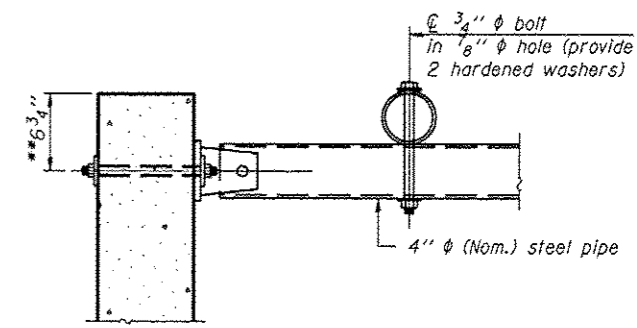
DETAIL B

*** The lap length between pipes may be adjusted in the field to accommodate construction tolerances but shall not be less than 9".



SECTION C-C

(See Detail A for dimensions and details not shown.)



SECTION D-D

** Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert end section.

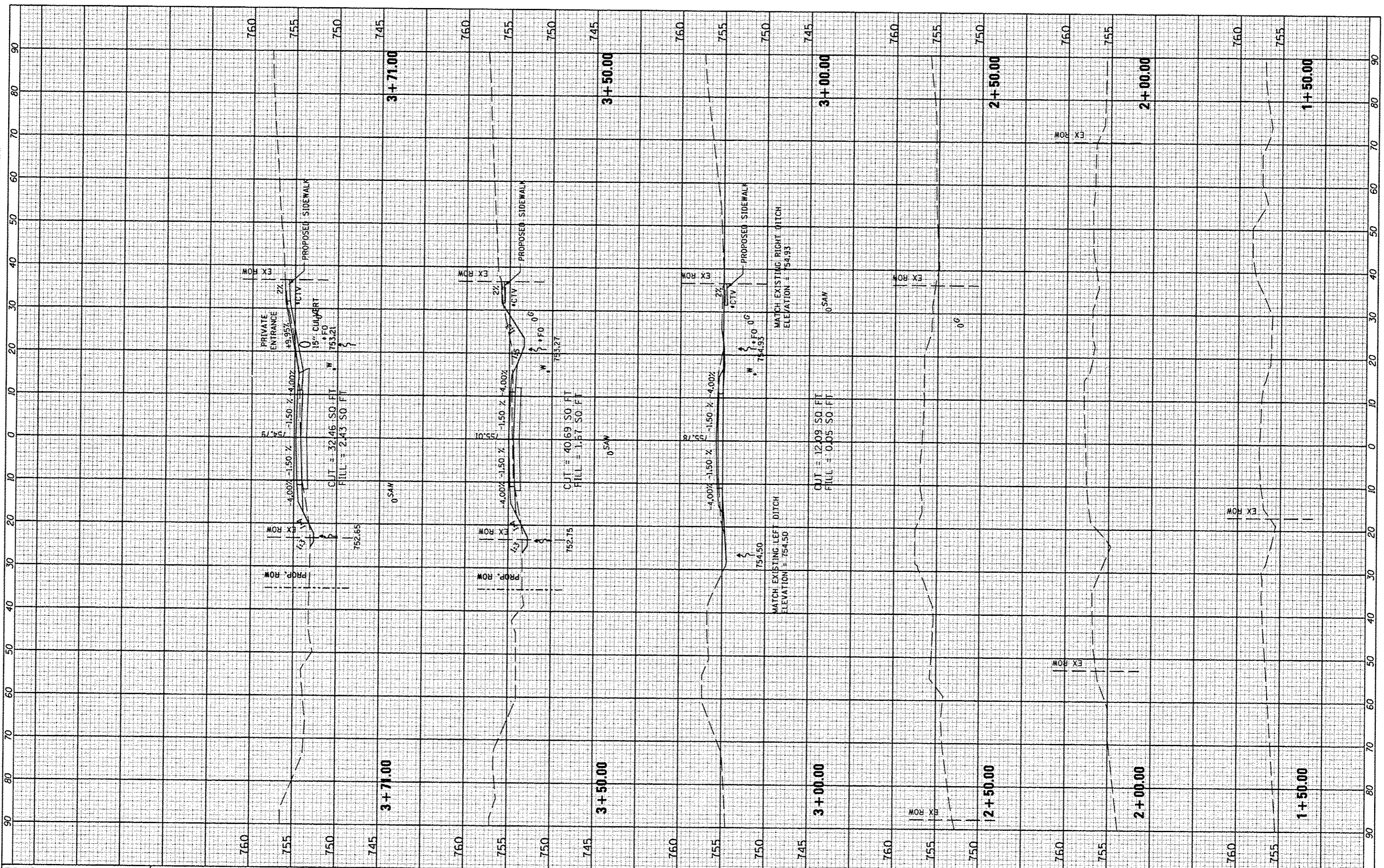
2-16-11

(Sheet 3 of 3)

DESIGNED -	EXAMINED _____	DATE - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STEEL PIPE GRATE SYSTEM	F.A. RTE. 393	SECTION 12-00001-01-RS	COUNTY KNOX	TOTAL SHEETS 174	SHEET NO. 93	
CHECKED -	PASSED _____	ENGINEER OF BRIDGE DESIGN			COUNTY HIGHWAY #4		CONTRACT NO. 89614			
DRAWN -	ENGINEER OF BRIDGES AND STRUCTURES				SHEET NO. 3 OF 3 SHEETS					
CHECKED -					FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT RS-0393 (105)					

FINAL SURVEY	BY	DATE
SURVEYED		
NOTED		
PLOTTED		
AREA		
CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
NOTED		
PLOTTED		
AREA		
CHECKED		



FILE NAME *
 *FILE#

USER NAME * USER#	DESIGNED -	REVISED -
PLOT SCALE * SCALE#	DRAWN -	REVISED -
PLOT DATE * DATE#	CHECKED -	REVISED -
	DATE - MARCH 2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

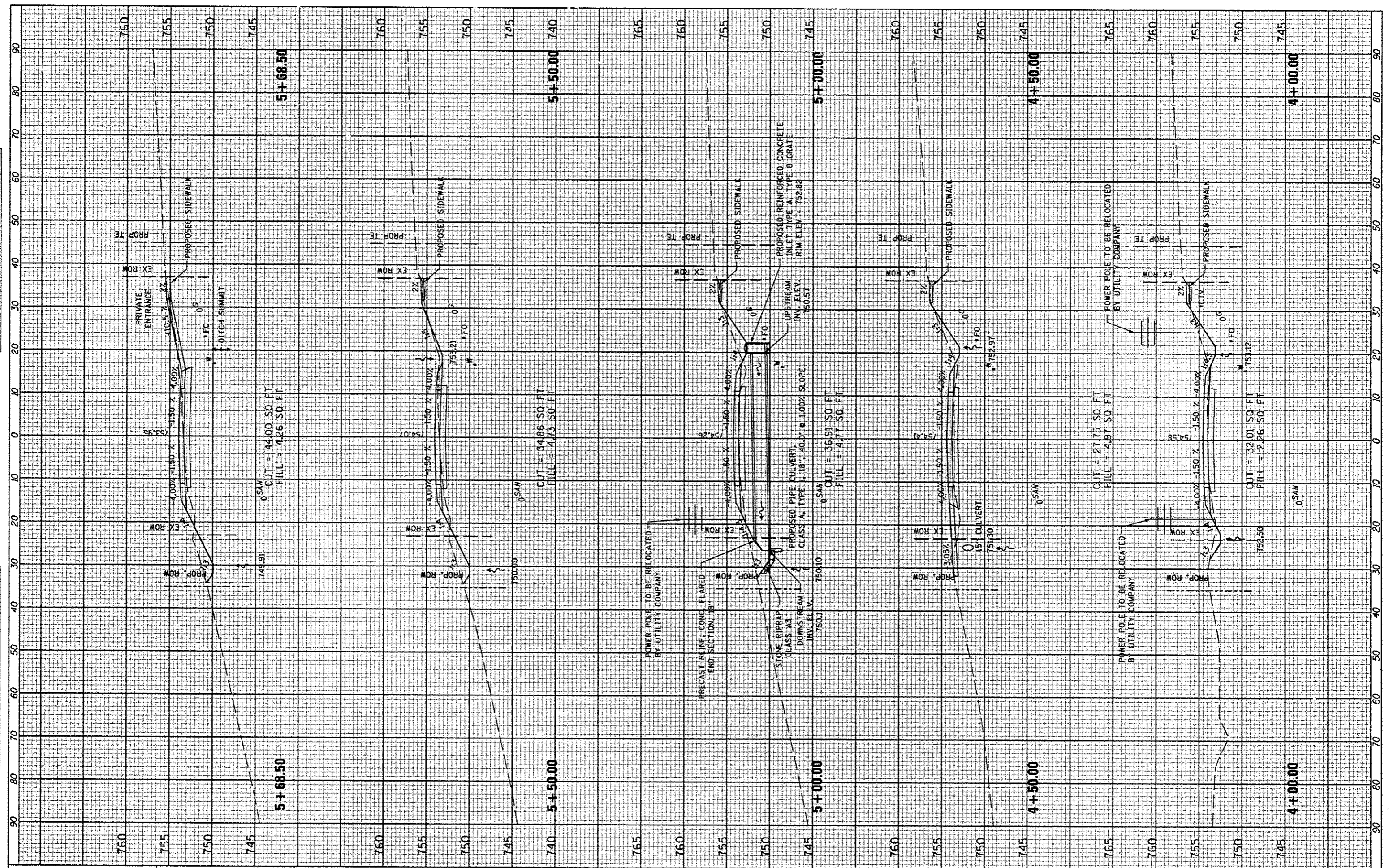
**COUNTY HIGHWAY #4
CROSS SECTIONS**

SCALE: _____ SHEET NO. 94 OF 174 SHEETS STA. 1+50.00 TO STA. 3+71.00

F.A. RTE. 393	SECTION 12-00001-01-RS	COUNTY KNOX	TOTAL SHEETS 174	SHEET NO. 94
COUNTY HIGHWAY 4		CONTRACT NO. 89614		
DISTRICT 4		ILLINOIS FED. AID PROJECT RS-0393 (105)		

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

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



FILE NAME *
 #FILE#

USER NAME * #USER*
 PLOT SCALE * #SCALE*
 PLOT DATE * #DATE*

DESIGNED -	---	REVISED -	-----
DRAWN -	---	REVISED -	-----
CHECKED -	---	REVISED -	-----
DATE -	MARCH 2013	REVISED -	-----

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

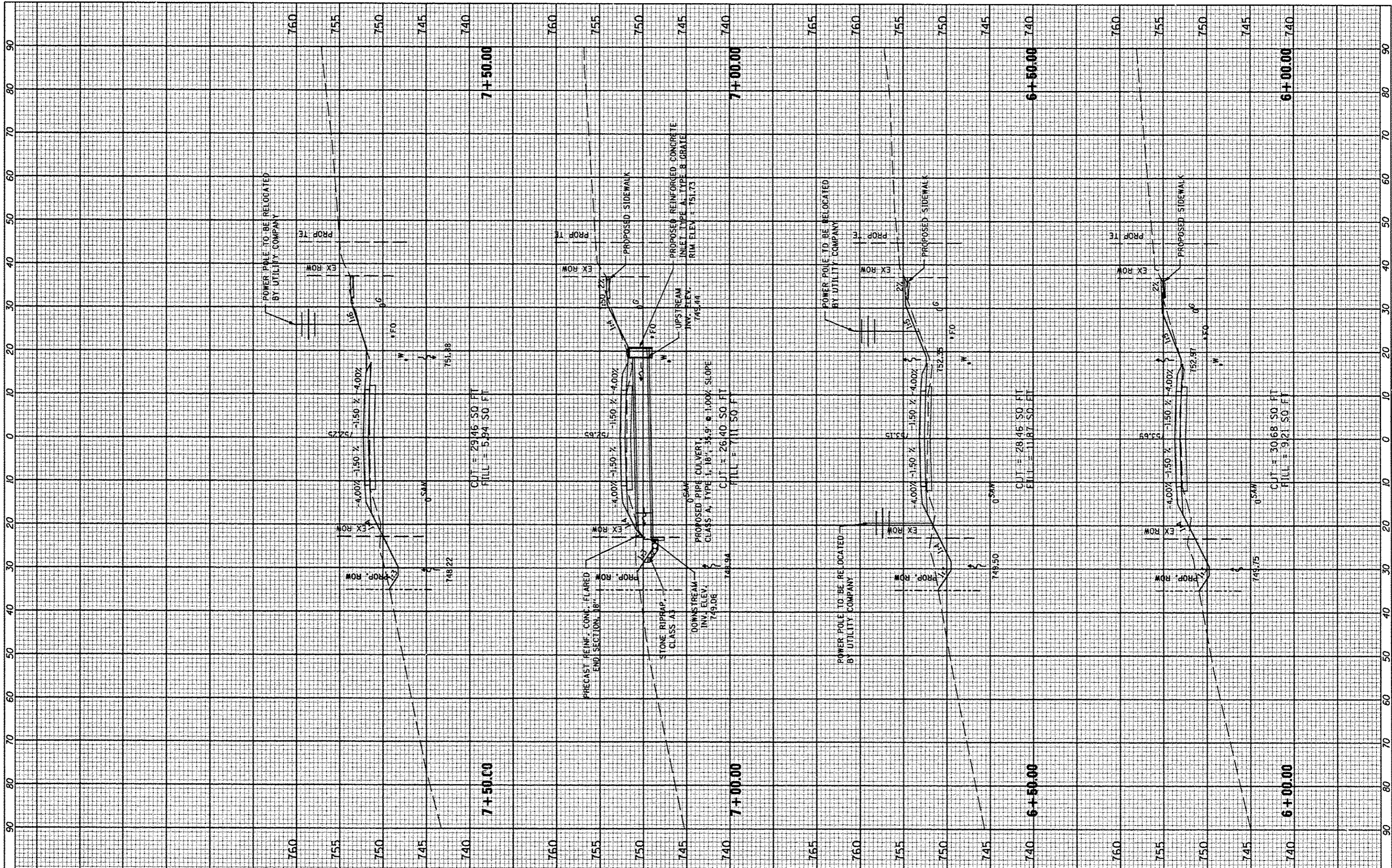
**COUNTY HIGHWAY #4
 CROSS SECTIONS**

SCALE: _____ SHEET NO. 95 OF 174 SHEETS STA. 4+00.00 TO STA. 5+68.50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	95
COUNTY HIGHWAY 4		CONTRACT NO. 89614		
DISTRICT 4		ILLINOIS/FED. AID PROJECT RS-0393 (105)		

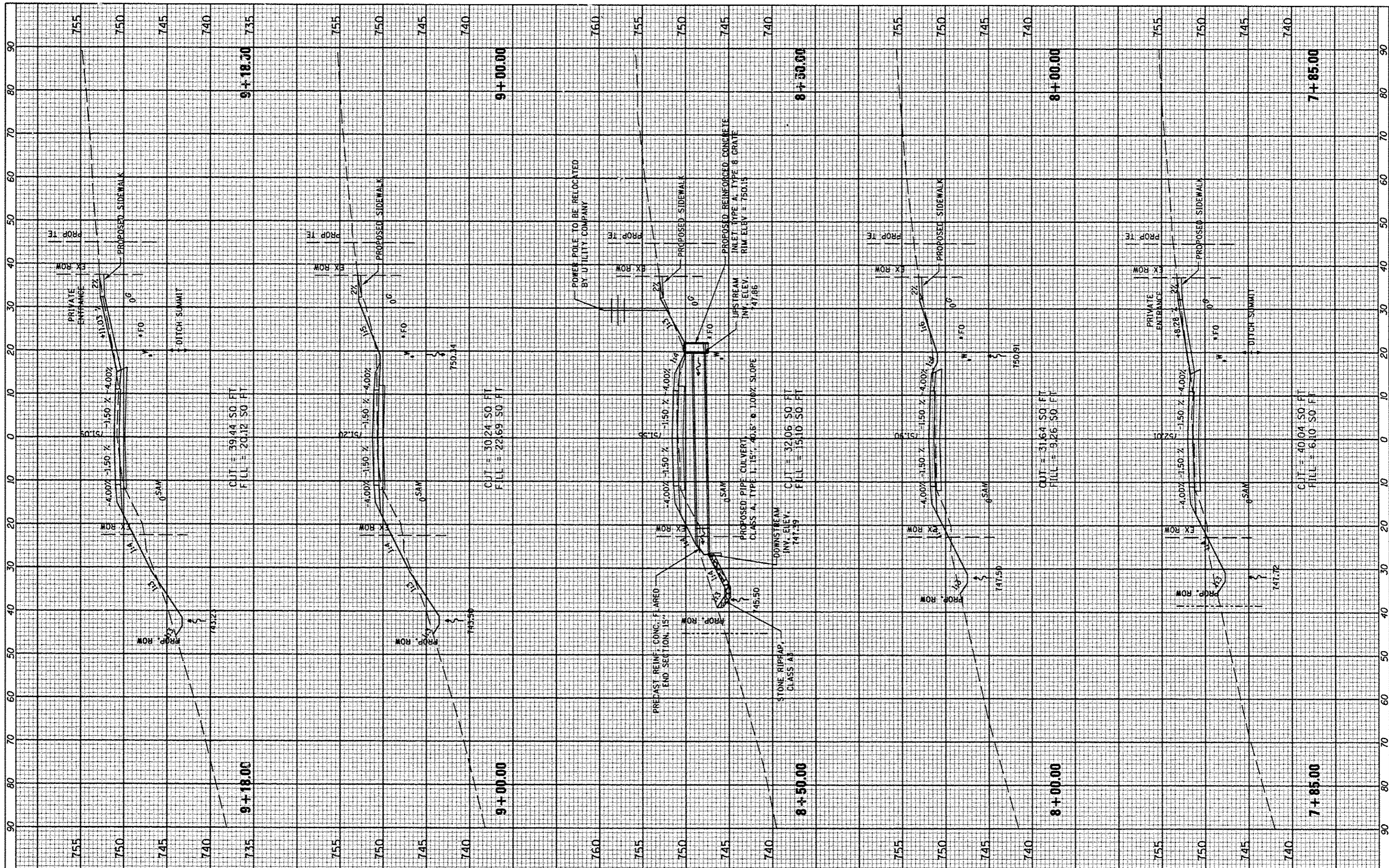
FINAL SURVEY	DATE
STARTED	
NOTE BOOK	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
STARTED	
NOTE BOOK	
AREAS CHECKED	



FINAL SURVEY	DATE
DATE	
NO. _____	
NO. _____	
NO. _____	
NO. _____	
NO. _____	
NO. _____	
NO. _____	
NO. _____	

ORIGINAL SURVEY	DATE
DATE	
NO. _____	
NO. _____	
NO. _____	
NO. _____	
NO. _____	
NO. _____	
NO. _____	
NO. _____	



FILE NAME	USER NAME	DESIGNED	REVISED
#FILE#	#USER#	---	---
		DRAWN	REVISED
		---	---
		CHECKED	REVISED
		---	---
		DATE	REVISED
		MARCH 2013	---

DESIGNED	REVISED
---	---
DRAWN	REVISED
---	---
CHECKED	REVISED
---	---
DATE	REVISED
MARCH 2013	---

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

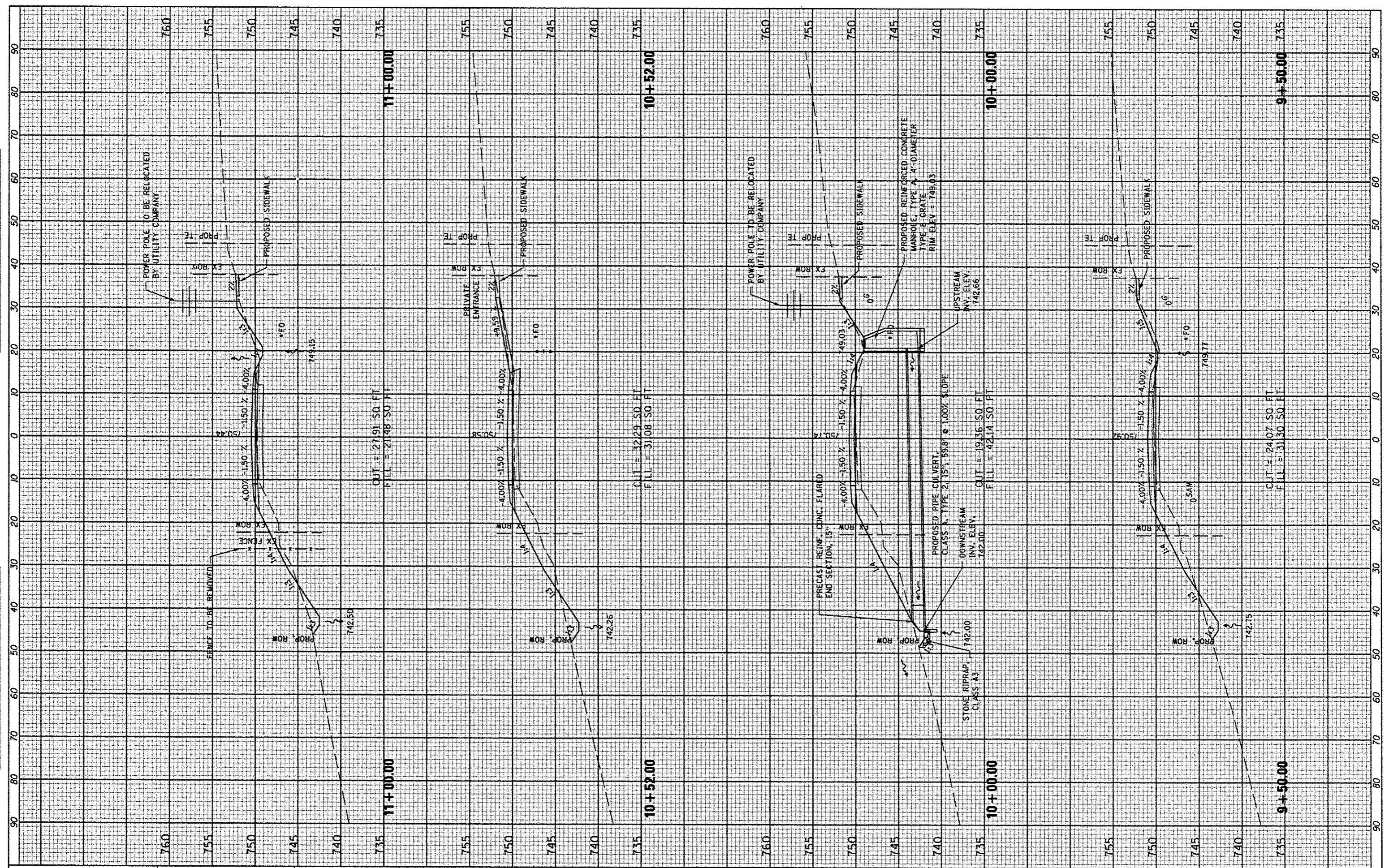
**COUNTY HIGHWAY #4
CROSS SECTIONS**

SCALE: _____ SHEET NO. 97 OF 174 SHEETS STA. 7+85.00 TO STA. 9+18.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	97
COUNTY HIGHWAY 4		CONTRACT NO. 89614		
DISTRICT 4		ILLINOIS FED. AID PROJECT RS-0393 (105)		

FINAL SURVEY
 SORTED
 NOTE BOOK
 NO. _____
 BY _____ DATE _____
 AREAS CHECKED

ORIGINAL SURVEY
 SORTED
 NOTE BOOK
 NO. _____
 BY _____ DATE _____
 AREAS CHECKED



FILE NAME *
 #FILE#

USER NAME * USER *
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE - MARCH 2013

REVISOR *
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

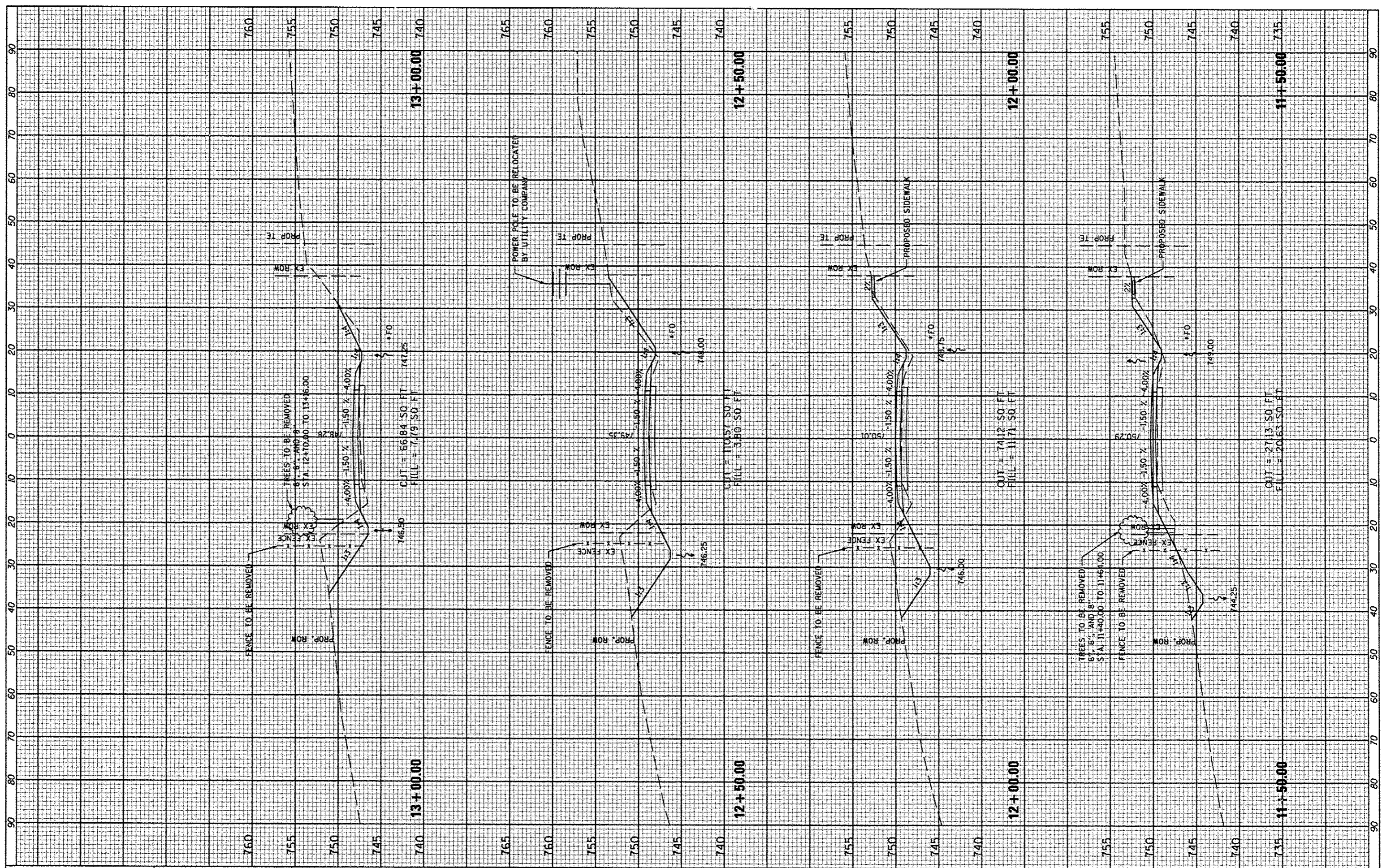
COUNTY HIGHWAY #4
 CROSS SECTIONS

SCALE: _____ SHEET NO. 98 OF 174 SHEETS STA. 9+50.00 TO STA. 11+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	98
COUNTY HIGHWAY 4		CONTRACT NO. 89614		
DISTRICT 4		ILLINOIS FED. AID PROJECT RS-0393 (105)		

FILE NO.	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
NOTE BOOK	
AS SHOWN	
CHECKED	

FILE NO.	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
NOTE BOOK	
AS SHOWN	
CHECKED	



FILE NAME *
#FILE#

USER NAME * USER *
DESIGNED -
DRAWN -
CHECKED -
DATE - MARCH 2013

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

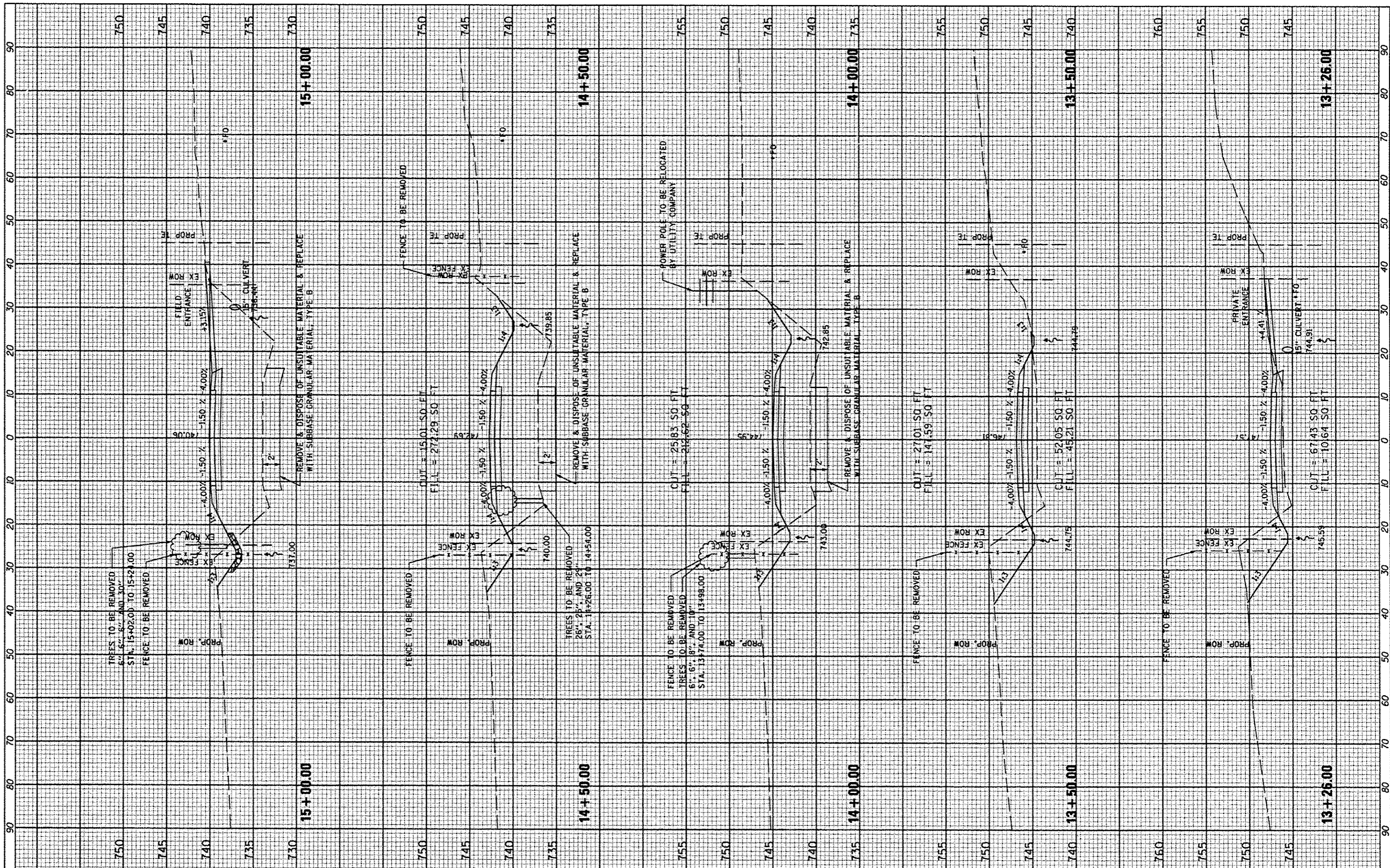
**COUNTY HIGHWAY #4
CROSS SECTIONS**

SCALE: SHEET NO. 99 OF 174 SHEETS STA. 11+50.00 TO STA. 13+00.00

F.A. RTE. 393	SECTION 12-00001-01-RS	COUNTY KNOX	TOTAL SHEETS 174	SHEET NO. 99
COUNTY HIGHWAY 4		CONTRACT NO. 89614		
DISTRICT 4		ILLINOIS FED. AID PROJECT RS-0393 (105)		

DATE	BY
STARTED	
NOTE BOOK	
AREAS	
AREAS CHECKED	

DATE	BY
STARTED	
NOTE BOOK	
AREAS	
AREAS CHECKED	



FILE NAME	USER NAME
FILE#	USER#
	DESIGNED
	DRAWN
	CHECKED
	DATE

	DESIGNED	REVISED
	DRAWN	REVISED
	CHECKED	REVISED
	DATE	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COUNTY HIGHWAY #4
CROSS SECTIONS**

SCALE: _____ SHEET NO. 100 OF 174 SHEETS STA. 13+26.00 TO STA. 15+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
393	12-00001-01-RS	KNOX	174	100
	COUNTY HIGHWAY 4			CONTRACT NO. 89614
	DISTRICT 4	ILLINOIS FED. AID PROJECT RS-6393 (105)		